STATE OF OHIO Proj # 635-70

DEPARTMENT OF HIGHWAYS

I-270-5(18)11, F-202(5)

PART 1 OF 2 PARTS
FOR PART 2 SEE FRA-270-26.76N

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	I-270-5(18)11Z, F-202-5

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

25

Federal No. U-202(5) appearing throughout this plan shall be considered to read F-202(5).

FRA-270-25.39 N
FRA-62-20.83
FRANKLIN COUNTY
CITY OF COLUMBUS
MIFFLIN TOWNSHIP
VILLAGE OF GAHANNA

CONVENTIONAL SIGNS

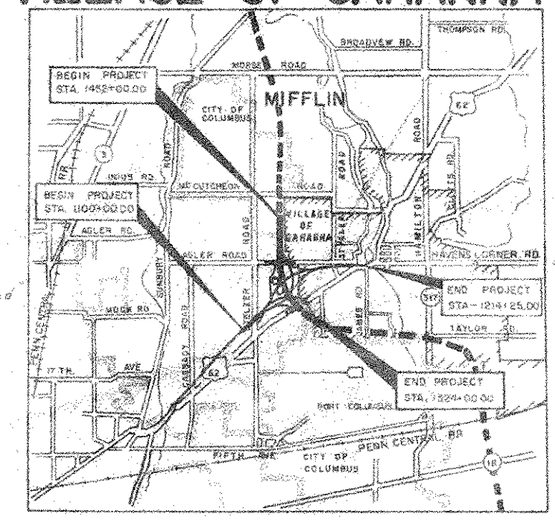
COUNTY LINE	
TOWNSHIP LINE	
SECTION LINE	
CENTER LINE	
PROPERTY LINE	
EXISTING RIGHT-OF-WAY	
PROPOSED RIGHT-OF-WAY	R/W
PROPOSED LIMITED ACCESS	LA
FENCE LINE (EXISTING, PROPOSED)	
EXISTING GUARD RAIL	
PROPOSED GUARD RAIL	
POLE LINE (POWER TELEPHONE)	
EXISTING TREES, STUMPS	
TEMPORARY EASEMENT	
CHANNEL EASEMENT	
WORK LIMITS	

INDEX OF SHEETS

TITLE SHEET	1
SCHEMATIC LAYOUT & DESIGN DESIGNATION	2 - 3
TYPICAL SECTIONS	4 - 11
MISCELLANEOUS	12 - 18, 16A & 16B
GENERAL NOTES	19 - 24
CALCULATIONS	25 - 40
SUB-SUMMARY	41 - 42
GENERAL SUMMARY	43 - 49, 42A, 42B, 42C & 42D
SUPERELEVATION TABLES	50 - 55
MAIN LINE PLAN & PROFILE	56 - 63
MAIN LINE CROSS SECTIONS	64 - 81
I-270 & U.S.R. 62 INTERCHANGE DETAILS	82 - 170
U.S.R. 62 S.B. PLAN & PROFILE	171 - 183
U.S.R. 62 S.B. CROSS SECTIONS	184 - 211
U.S.R. 62 N.B. PLAN & PROFILE	212 - 216
U.S.R. 62 N.B. CROSS SECTIONS	217 - 230
STOLER ROAD	231 - 233
AGLER ROAD	234 - 241
MIFFLIN BLVD.	242 - 248
RELOCATED CHANNEL	249 - 250
STORM SEWER PROFILE	251 - 252
STRUCTURES 20' SPAN & UNDER	253 - 268
SIGNING	269 - 299
LIGHTING — Change Orders, Traffic Signals — 268A	301 - 330
STRUCTURES 20' SPAN & OVER	331 - 418
RIGHT OF WAY	419 - 509

Sheet Nos. 48, 49 & 300 Not Used

Sheet No. 352 & 365 revised 8-19-71 EBL
Sheet No. 354, 355, 373, 374, 375, 376, 378, and 395 revised 9-3-71 EBL
Sheet No. 380 revised 10-8-71 EBL
Sheet No. 343, 344, 346, & 396 revised 10-29-71 EBL



LOCATION MAP

SCALE IN MILES

PORTION TO BE IMPROVED BY OTHERS
PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

SCALE

PAVEMENT DETAIL	1" = 20'
PLAN	1" = 50'
PROFILE - HORIZONTAL	1" = 50'
PROFILE - VERTICAL	1" = 5'
CROSS SECTIONS	1" = 10'

* LINE DATA

	PROJECT LENGTH Urban	Rural	F-202(5)	Urban	WORK LENGTH Rural	F-202(5)	100% State
I-270-25.39 N	1406.59 L.F.	5793.41 L.F.		1456.59 L.F.	14,198.41		1330.00 L.F.
NET TOTAL PROJECT	0.266 Mi.	1.097 Mi.		0.275 Mi.	2.689 Mi.		0.251 Mi.
I-270 TOTAL		7200.00 L.F. 1.363 Mi.			16,985.00 L.F. 3.216 Mi.		
FRA-62-20.83 TOTAL		5090.00 L.F. 0.964 Mi.			6555.35 L.F. 1.241 Mi.		
TOTAL OF FRA-270-25.39 N & FRA-62-20.83		12,290.00 L.F. 2.327 Mi.			23,540.35 L.F. 4.458 Mi.		

* Line data quantities carried from Sheet No. 2

TOTAL PROJECT PARTS 1 & 2 = 20,393.90 Lin. Ft. or 3.862 Mi.
TOTAL WORK PARTS 1 & 2 = 38,737.34 Lin. Ft. or 7.336 Mi.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR OF HIGHWAY IN ACCORDANCE WITH THE PROVISIONS OF SECTION, 5511.02 REVISED CODE OF OHIO.

1969 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THE IMPROVEMENT.

THE RIGHT-OF-WAY FOR THE IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THESE PLAN AND ESTIMATES.

APPROVED: Richard D. Jackson
DATE: 8-4-70 DIVISON DEPUTY DIRECTOR

APPROVED: C. A. Allwater
DATE: 8-19-70 ENGINEER OF BRIDGES

APPROVED: R. E. Gatlin
DATE: 8-26-70 ENGINEER OF LOCATION & DESIGN

APPROVED: George J. Thomas
DATE: 8-26-70 DEPUTY DIRECTOR OF DESIGN & CONSTRUCTION

APPROVED: T. H. Howard
DATE: 9-8-70 DEPUTY DIRECTOR OF RIGHT-OF-WAY

APPROVED: Thomas Morgan
DATE: 9-3-70 DEPUTY DIRECTOR OF PLANNING & PROGRAMMING

APPROVED:
DATE: FIRST ASSISTANT DIRECTOR

APPROVED: P. E. Madden
DATE: 9-9-70 DIRECTOR OF HIGHWAYS

APPROVED: Robert L. Morris
DATE: 5-5-70 ENGINEER OF THE VILLAGE OF GAHANNA

APPROVED: Theodore L. Wallace
DATE: 5-7-70 ENGINEER OF THE CITY OF COLUMBUS

STANDARD CONSTRUCTION DRAWINGS

DWG. NO.	DATE	DWG. NO.	DATE	DWG. NO.	DATE	DWG. NO.	DATE	DWG. NO.	DATE
BP-2	12-1-68	BP-1	6-1-69	CB-5	9-1-69	GR-5	1-15-68	MC-2	8-1-68
MH-2A	10-1-68	BP-3	12-1-68	CB-6 & 8A	6-6-68	GR-6	7-15-65	MC-8	12-1-67
SP-53	6-30-66	BP-4	12-1-68	CB-6	6-1-65	HW-E	6-1-65	MH-1	10-1-68
L-1	6-1-65	BP-5	6-1-65	F-1	3-10-69	GR-1	1-1-67	MH-1A	10-1-68
F-3	3-10-69	BP-6	6-1-65	F-2	3-10-69	F-2A	6-6-68	MH-2	10-1-68
F-6	10-1-66	BP-7	1-1-66	F-3	3-10-69	MC-1	6-13-62	HL-1	11-1-65
		BP-8	5-20-70	FACI-1	9-15-67	MC-3	6-20-68	HL-2	6-1-65
SD-1-69	6-12-69	CB-2-2A & B	6-1-65	FACI-2	6-1-65	MC-4	6-11-67	HL-3	11-1-68
CB-1-66	2-1-67	CB-2A-1-66	6-1-65	GR-2A	11-1-67	MC-5	6-1-65	HL-4	1-1-66
BR-1-62	2-1-62	CB-4	7-1-61	GR-2B	2-1-68	MC-6	6-1-68	AS-1-67	6-12-67
CB-3	6-1-67								

SUPPLEMENTAL SPECIFICATIONS

801	1-1-69	836	6-17-69
815	1-1-69		
816	1-1-69	934	1-1-69
811	1-1-69		
808	11-14-69		
830	6-17-69		
813	1-1-69		
938	8-18-69		
1001	1-1-69		

FRANKLIN COUNTY
FRA-270-25.39N FRA-62-20.83
DATE OF LETTING
CONTRACT NO.

PREPARED AND RECOMMENDED BY
FRANKLIN ENGINEERING, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION,
BUREAU OF PUBLIC ROADS
APPROVED
DIVISION ENGINEER DATE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 M.
FRA-62-20.83

LINE DATA

PROJECT LENGTH (FRA-270-25.39M)

		URBAN	RURAL
I-270			
Begin Project	1452+00.00		
Columbus Corp Line	1466+06.59	1406.59 LF	
			5793.41 LF
End Project	1524+00.00		
NET TOTAL PROJECT		1406.59 LF	5793.41 LF
		0.266 MI.	1.097 MI.
GRAND TOTAL PROJECT URBAN & RURAL		7200.00 LF	
		1.363 MI.	

PROJECT LENGTH (FRA-62-20.83)

		U-202(5)
US 62		
Begin Project	1100+00.00	
	1117+50.00	1750.00 LF
	1150+88.60	
End Project	1214+25.00	3360.00 LF
NET TOTAL PROJECT		5090.00 LF
		0.964 MI.
GRAND TOTAL PROJECT		5090.00 LF
RURAL & U-202(5)		0.964 MI.

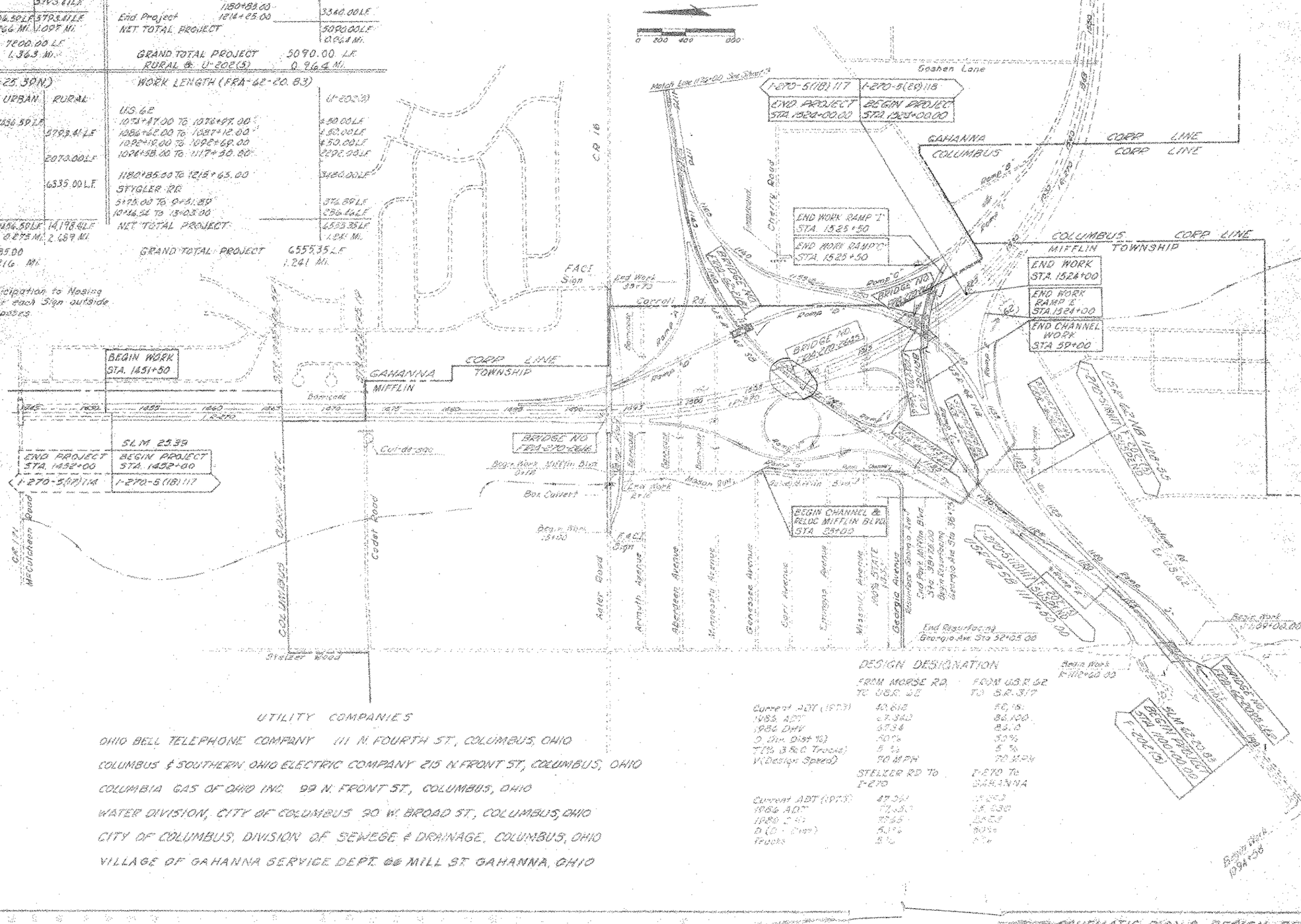
WORK LENGTH (FRA-270-25.39N)

	100% STATE	URBAN	RURAL
I-270			
1451+50.00 To 1466+06.59		1456.59 LF	
1466+06.59 To 1524+00.00			5793.41 LF
AGLER RD.			
15+00.00 To 35+70.00			2070.00 LF
US 62			
1117+50 to 1180+85			6335.00 LF
GEORGIA AVE.			
38+75.00 To 52+05.00	1330.00 LF		
NET TOTAL PROJECT	1330.00 LF	1456.59 LF	14,198 LF
	0.251 MI.	0.275 MI.	2.689 MI.
GRAND TOTAL PROJECT	16,985.00		
	3.216 MI.		

WORK LENGTH (FRA-62-20.83)

	(U-202(5))
US.62	
1073+47.00 To 1078+97.00	650.00 LF
1086+62.00 To 1087+12.00	1 50.00 LF
1092+19.00 To 1098+69.00	650.00 LF
1024+38.00 To 1117+90.00	2292.00 LF
1180+85.00 To 1218+63.00	3780.00 LF
STEIGLER RD.	
5+75.00 To 9+51.89	376.89 LF
10+16.52 To 13+03.90	286.48 LF
NET TOTAL PROJECT	6555.35 LF
	1.241 MI.
GRAND TOTAL PROJECT	6555.35 LF
	1.241 MI.

NOTES:
* Ramp 'K' will be U-202(5) participation to Nosing
* Additional 50' of Work Limits for each Sign outside grading limits for removal purposes



DESIGN DESIGNATION

	FROM MORSE RD. TO U.S. 62	FROM U.S. 62 TO S.R. 317
Current ADT (1977)	40,610	40,610
1986 ADT	49,360	86,100
1986 DHV	6734	8613
D (Dir. Dist %)	50%	50%
T (% Comm. Trucks)	5 %	5 %
V (Design Speed)	70 M.P.H.	70 M.P.H.
	STELZER RD. To I-270	I-270 To GAHANNA
Current ADT (1977)	49,260	49,260
1986 ADT	77,330	58,030
DHV (24)	9765	8250
D (Dir. Distr.)	51%	50%
Trucks	5%	5%

UTILITY COMPANIES

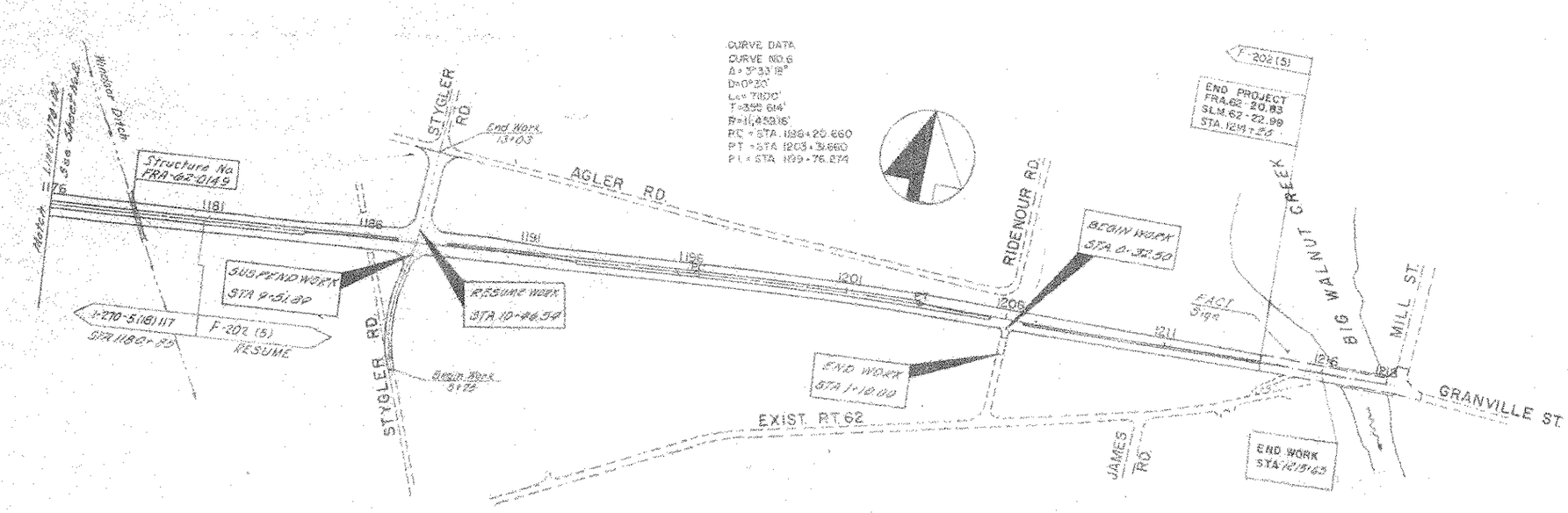
OHIO BELL TELEPHONE COMPANY 111 N. FOURTH ST., COLUMBUS, OHIO
COLUMBUS & SOUTHERN OHIO ELECTRIC COMPANY 215 N. FRONT ST., COLUMBUS, OHIO
COLUMBIA GAS OF OHIO INC. 99 N. FRONT ST., COLUMBUS, OHIO
WATER DIVISION, CITY OF COLUMBUS 90 W. BROAD ST., COLUMBUS, OHIO
CITY OF COLUMBUS, DIVISION OF SEWAGE & DRAINAGE, COLUMBUS, OHIO
VILLAGE OF GAHANNA SERVICE DEPT. 66 MILL ST. GAHANNA, OHIO

SCHEMATIC PLAN & DESIGN DESIGNATION

FED. AID SYSTEM	STATE	PROJECT	
2	OHIO		

3

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83



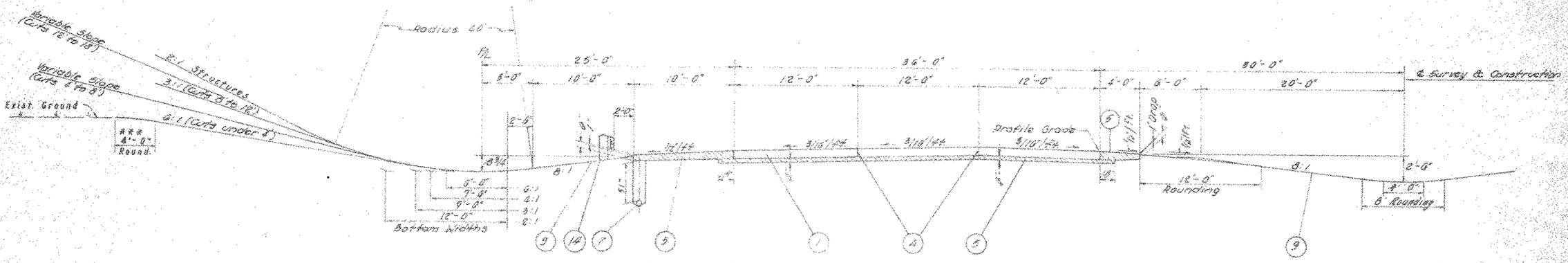
SCHEMATIC - PLAN & PROFILE

TYPICAL SECTIONS

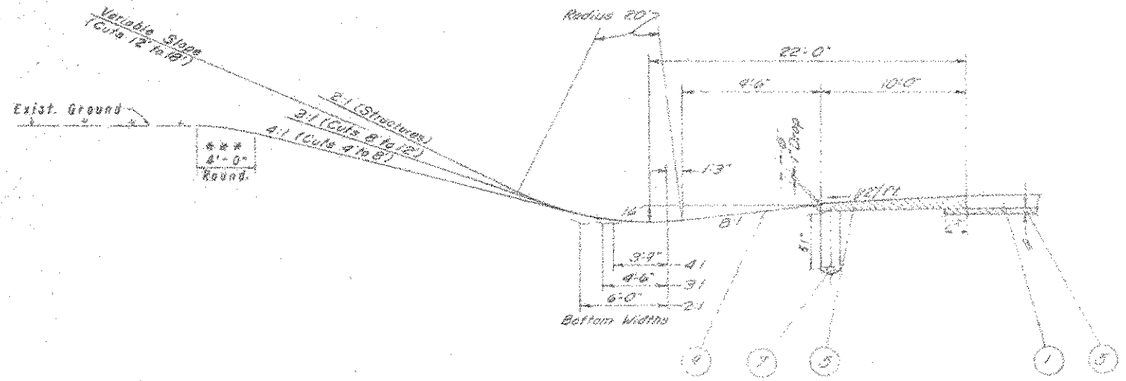
TYPE 451
OR 301

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83



NORMAL SECTION IN CUT
STA 1502+00 TO STA 1520+00 - 1500.00 LT



20' DITCH RADIUS STA 1521+00 to 1524+00 LEFT & RIGHT

LEGEND

(A) Standard Longitudinal Joint
(1) Item 451 8" Continuously Reinforced Portland Cement Concrete Pavement
(5) Item 301 Bituminous Aggregate Base PG 64-22 (58-22) or PG 70-22 M Mod
Thickness as shown (See Sht 2 in Proj.)
(7) Item 605 6" Min. Underdrains (Deep)
(10) Item 608 Guard Rail Type B
(23) Item 659 Seeding & Mulching, As Per Plan

NOTES

*** The 4 ft. rounding applies to all backslopes intersecting the existing ground. Adjacent to Scenic Byway lane, use key joint without dowels for joint 24 from median edge of pavement. See Pavement Details.

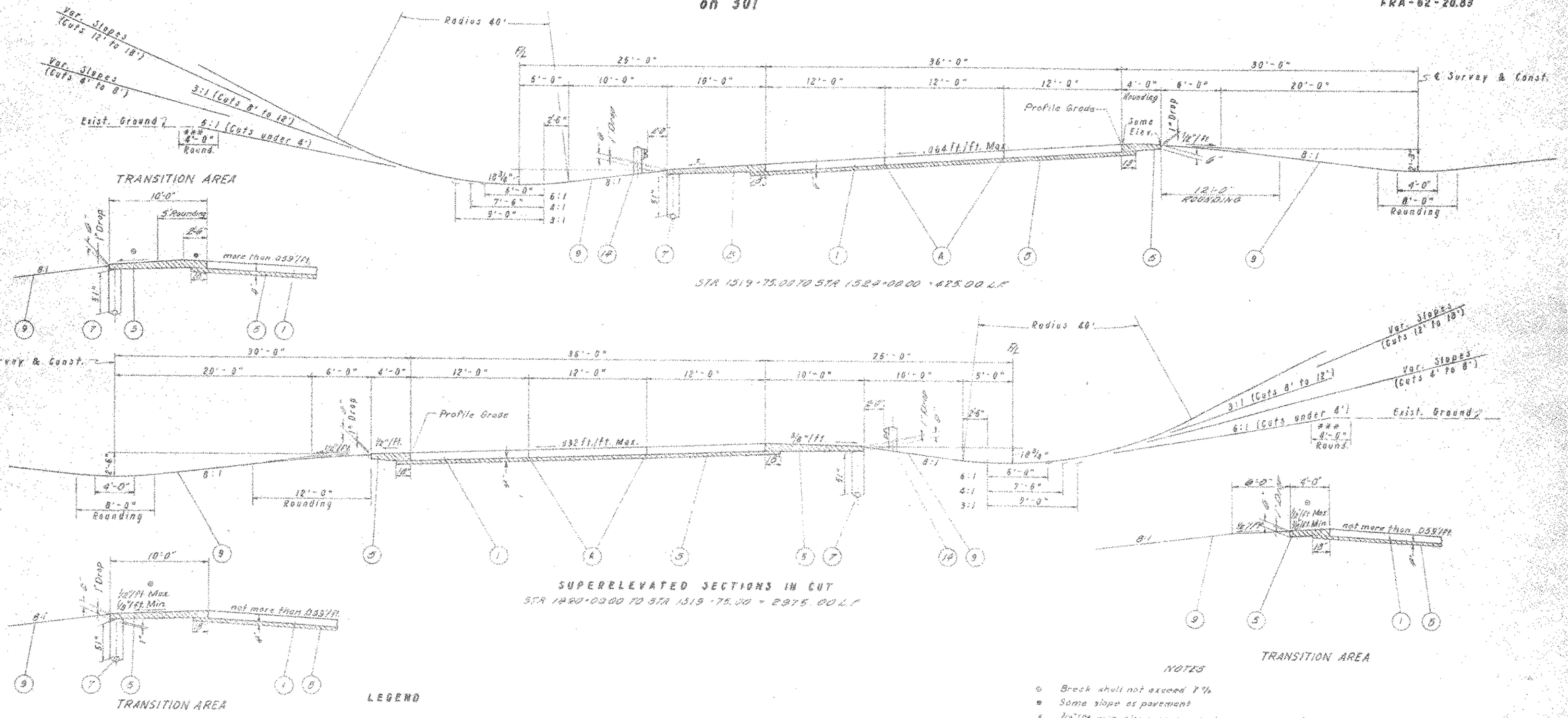
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

5

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

TYPICAL SECTIONS

TYPE 451 on 301



LEGEND

- (A) Standard Longitudinal Joint
- (1) Item 451 8" Continuously Reinforced Portland Cement Concrete Pavement
- (5) Item 301 Bituminous Aggregate Base 702.01 (85-100) or 702.09 RT-H or 12 Thickness as Shown (See Note in Proposal)
- (7) Item 605 6" Pipe Underdrains (Deep)
- (9) Item 659 Seeding & Mulching, As Per Plan
- (18) Item 606 Guard Rail Type B

NOTES

- ⊙ Break shall not exceed 7%
- ● Same slope as pavement
- ∮ 1/2"/ft. min. slope or same slope as pavement
- *** The 4 ft. rounding applies to all backslopes intersecting the existing ground.

Adjacent to Speed Change Lane, Use Key Joint Without Tie Bars For Joint 20' From Median Edge Of Pavement (See Pavement Details)

I.R. 270 SUPERELEVATED TYPICAL SECTIONS

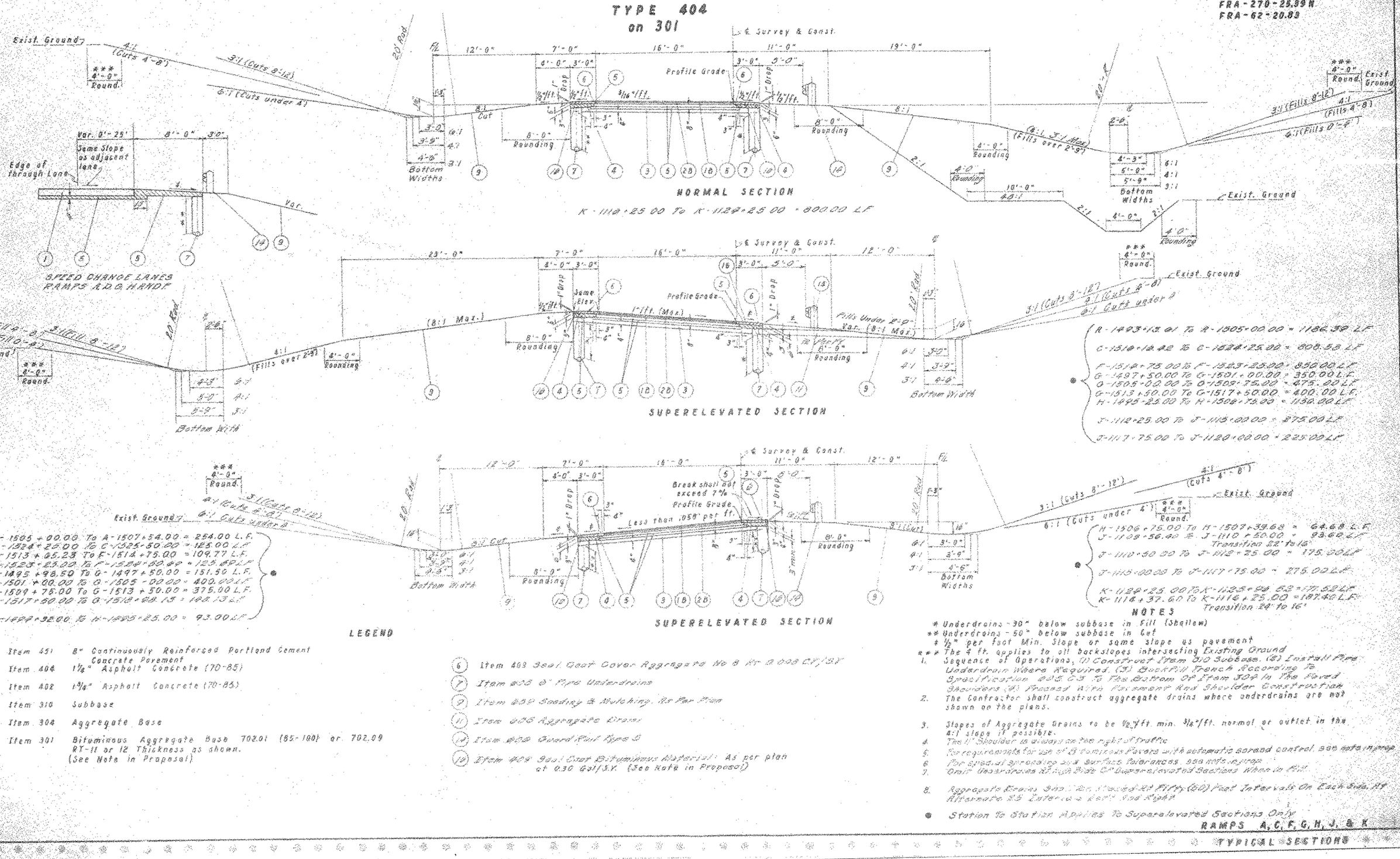
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

6

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

TYPICAL SECTIONS

TYPE 404 on 301



LEGEND

- (1) Item 451 8" Continuously Reinforced Portland Cement Concrete Pavement
- (18) Item 404 1 1/2" Asphalt Concrete (70-85)
- (20) Item 402 1 3/4" Asphalt Concrete (70-85)
- (3) Item 310 Subbase
- (4) Item 304 Aggregate Base
- (5) Item 301 Bituminous Aggregate Base 702.01 (85-100) or 702.09 RT-H or 12 Thickness as shown. (See Note in Proposal)
- (6) Item 403 Seal Coat Cover Aggregate No 8 Hr 0.008 CY/SY
- (7) Item 605 6" Pipe Underdrains
- (9) Item 659 Seeding & Mulching, As Per Plan
- (11) Item 605 Aggregate Drains
- (14) Item 606 Guard Rail Type B
- (16) Item 409 Seal Coat Bituminous Material: As per plan at 0.30 Gal/S.Y. (See Note in Proposal)

NOTES

- * Underdrains - 30" below subbase in Fill (Shallow)
- ** Underdrains - 50" below subbase in Cut
- ∮ 1/2" per foot Min. Slope or same slope as pavement
- *** The 4 ft. applies to all backslopes intersecting Existing Ground
1. Sequence of Operations, (1) Construct Item 310 Subbase, (2) Install Pipe Underdrain Where Required, (3) Backfill Trench According To Specification 605.03 To The Bottom Of Item 304 In The Paved Shoulders (4) Proceed With Pavement And Shoulder Construction
2. The Contractor shall construct aggregate drains where underdrains are not shown on the plans.
3. Slopes of Aggregate Drains to be 1/2"/ft. min. 3/4"/ft. normal or outlet in the 4:1 slope if possible.
4. The 11' Shoulder is widest on the right of traffic
5. For requirements for use of 3 dominos Pavers with automatic spread control, see data in prop.
6. For Spread of Spreading and Surface Tolerances, see note in prop.
7. Omit Underdrains At High Side Of Superelevated Sections Where In Fill
8. Aggregate Drains Shall Be Placed At Fifty (50) Foot Intervals On Each Side Of Alternate RS Entering "Exit" And "Add"
- ● Station To Station Applies To Superelevated Sections Only

RAMPS A, C, F, G, H, J, & K

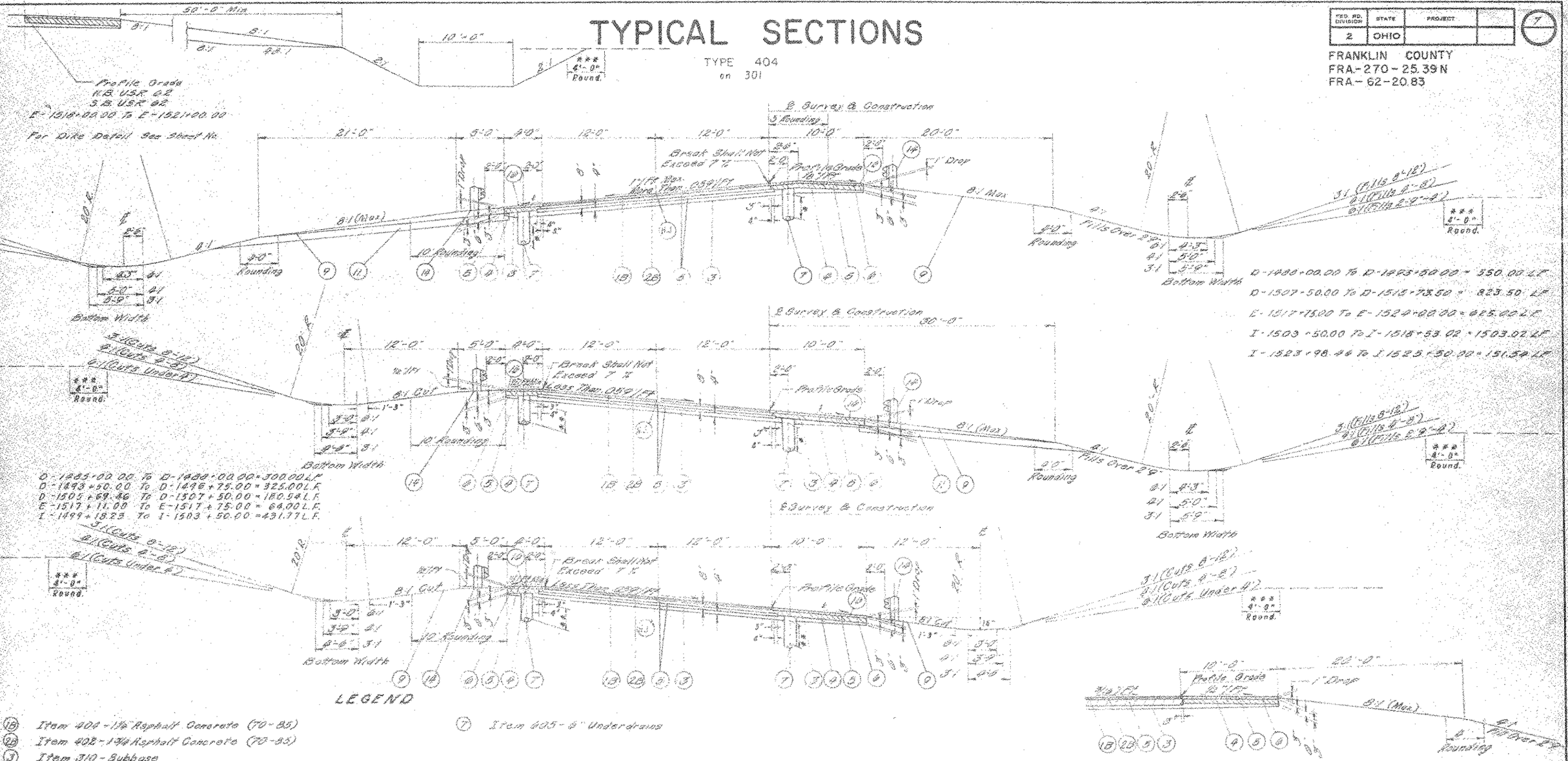
TYPICAL SECTIONS

TYPICAL SECTIONS

TYPE 404
on 301

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA.-270-25.39 N
FRA.-62-20.83



LEGEND

- (18) Item 402 - 1½ Asphalt Concrete (70-85)
- (22) Item 402 - 1¾ Asphalt Concrete (70-85)
- (3) Item 310 - Subbase
- (4) Item 304 - Aggregate Base
- (5) Item 301 - Bit. Aggregate Base 702.01 (85-100) Or 702.09 Cr-H-12, Thickness as shown (See Note in Proposal)
- (6) Item 409 - Seal Coat Cover Aggregate No. 6 At 0.008 CY/SY
- (7) Item 605 - 6" Underdrains
- (9) Item 659 - Seeding & Mulching (As Per Plan)
- (11) Item 605 - Aggregate Drains
- (14) Item 606 - Guard Rail, Type 5
- (16) Item 409 - Seal Coat Bituminous Material, As per plan at 0.30 Gal./S.Y. (See Note in Prop.)
- (17) Not Longitudinal Joint

NOTES

1. For Requirements for Use Of Bit Pavers With Automatic Screed Control, See Note In Prop.
2. For Special Surfacing And Surface Tolerances, See Note in Prop.
3. Slopes of Aggregate Drains To Be ½"/Ft. Min. ¾"/Ft. Normal, Outlet In The 4:1 Slope If Possible
4. Aggregate Drains Shall Be Placed At 200 Ft. (61) Foot Increments On Each Side Of ℄ Of Pavements At Intervals Left Of Area Shown
5. For Separate ℄ Of Construction See Sheet No. 9

* Underdrains - 30" Below Subbase In Fill (Shallow)
** Underdrains - 38" Below Subbase In Cut
† Some Slopes Require Cr ½" Per Ft. Min.
*** The 4 ft. rounding applies to all backslopes intersecting the existing ground

When Slope Of Pavement Is Equal To 0.59'/Ft. The Slope Of Paved Shoulder May Break At Edge Of Pavement With A Slope Of 8:1 Or Flatter

6. On Underdrains 30" High Or Less Or Superelevated Sections Use 6" Pipe
7. The Contractor Shall Construct Aggregate Drains Where Indicated On Or Not Shown On The Plans.

RAMPS D, E, & I

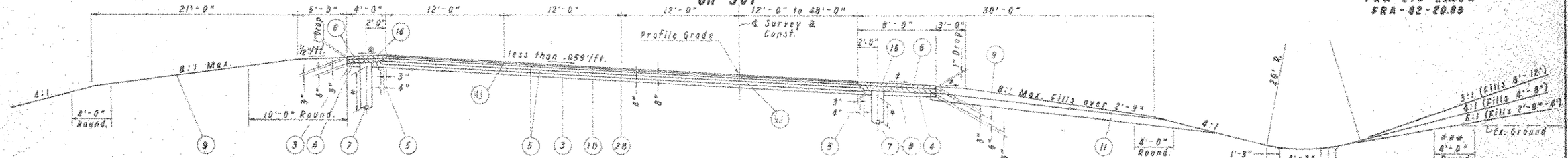
TYPICAL SECTIONS

TYPICAL SECTIONS

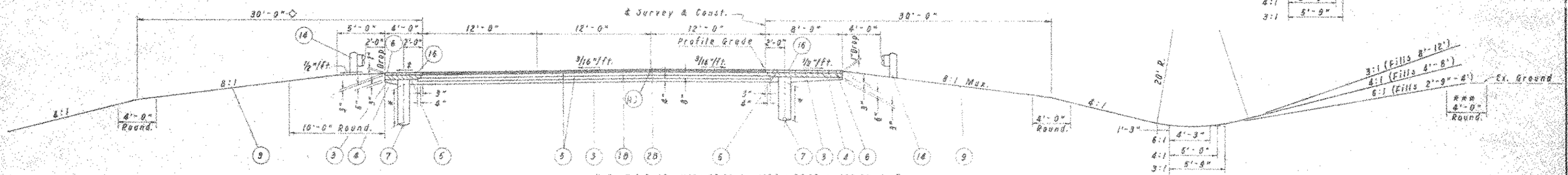
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39 H
FRA-62-20.83

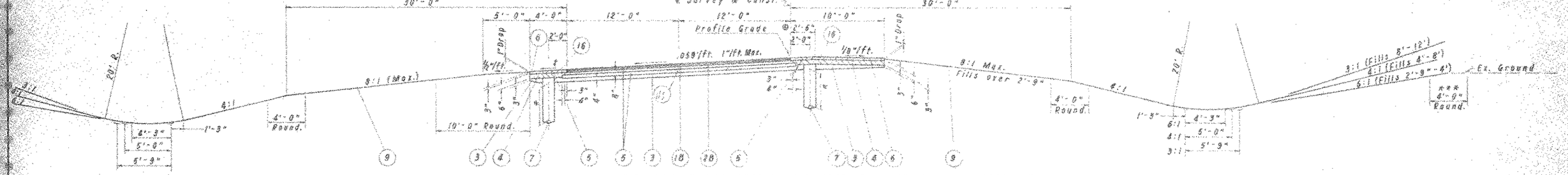
TYPE 404 on 301



N.B. U.S.R. 62 1120+00 to 1136+55 = 1655.00 L.F.

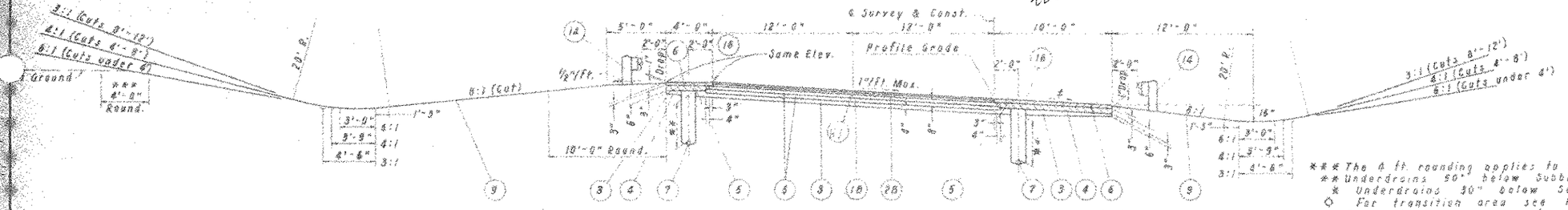


N.B. U.S.R. 62 1184+48.00 to 1120+00.00 = 152.00 L.F.



N.B. U.S.R. 62 1136+55.00 to 1142+70.82 Three (3) Lanes = 615.82 L.F.
N.B. U.S.R. 62 1146+00.88 to 1153+00.00 Two (2) Lanes = 699.12 L.F.

22.02



N.B. U.S.R. 62 1153+00.00 to 1171+04.01 = 1804.01 L.F.

22.36

LEGEND

(12)	Item	404	1 1/4"	Asphalt Concrete (70-85)
(28)	Item	402	1 3/4"	Asphalt Concrete (70-85)
(3)	Item	310	Subbase	
(4)	Item	304	Aggregate Base	
(5)	Item	301	Bituminous Aggregate Base 702.01 (85-100) or 702.03 PY-II or 12 thickness as shown. (See Note in Proposal)	
(6)	Item	409	Seal Coat Cover Aggregate No. 8 at 0.008 Cu. Yd. per Sq. Yd.	
(7)	Item	605	6" Underdrains	
(9)	Item	659	Seeding & Mulching as per plan	
(11)	Item	665	Aggregate Drains	
(14)	Item	606	Guard Rail Type 5	
(18)	Item	409	Seal Coat Bituminous Material as per plan at 0.30 Gal. per Sq. Yd. (See Note in Proposal)	
(J)	Hot Longitudinal Joints			

NOTES

*** The 4 ft. rounding applies to all backslopes intersecting the existing ground
** Underdrains 60" below Subbase in cut (Deep).
* Underdrains 30" below Subbase in fill (Shallow).
◇ For transition area see Pavement Details.
℄ Same slope as pavement or 1/2"/ft. min.
⊕ Break shall not exceed 7%
1. For requirements for use of Bituminous Pavers with Automatic Screed Control, see note in Proposal.
2. For Special spreading and surface tolerances, see note in Proposal.
3. Omit underdrains at high side of superelevated sections when in fill.
4. Aggregate drains shall be placed at fifty (50) foot intervals on each side or at twenty five (25) foot intervals left & right.
5. Sequence of Operations (1) Construct Item 310 Subbase, (2) Install Pipe Underdrain where required. (3) Backfill trench according to Specification 605.05 to the bottom of Item 304 in the Paved Shoulders. (4) Proceed with pavement and shoulder construction.
6. The Contractor shall construct aggregate drains where underdrains are not shown in the plans.
7. Slopes of Aggregate Drains to be 1/2"/ft. Min. 3/4"/ft. Normal, or outlet in the 4:1 slope if possible.

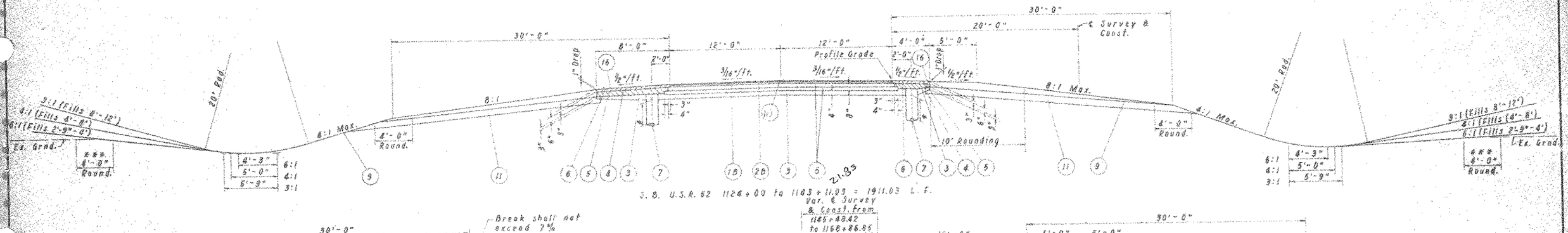
N.B. U.S.R. 62
TYPICAL SECTIONS

TYPICAL SECTIONS

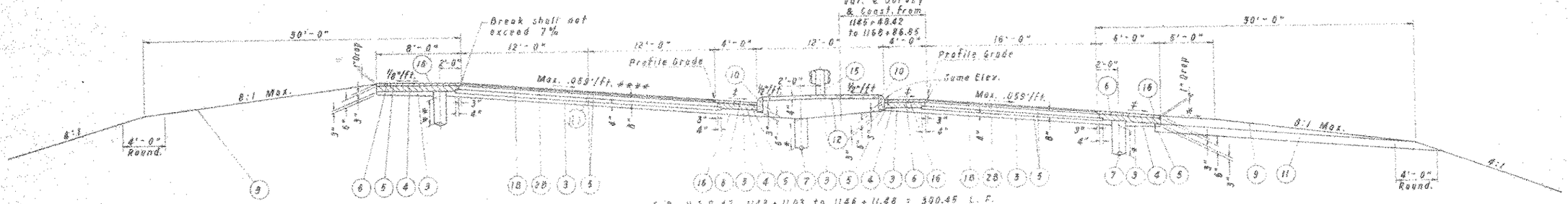
TYPE 404
on 301

SECTION	SHEET	PROJECT	
2	OHIO		

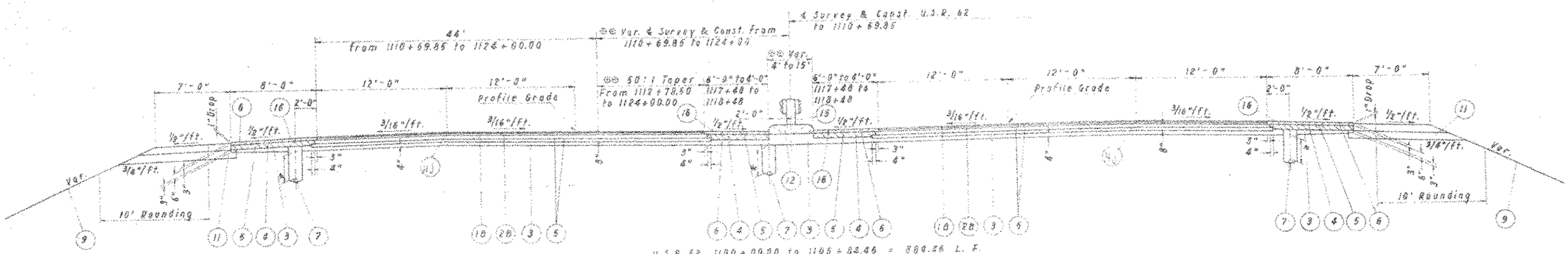
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83



S. B. U.S.R. 62 1126+00 to 1103+11.03 = 1911.03 L. F.



S. B. U.S.R. 62 1103+11.03 to 1146+11.48 = 300.45 L. F.
S. B. U.S.R. 62 1150+32.99 to 1171+00.00 = 2067.61 L. F.



U.S.R. 62 1130+00.00 to 1165+84.46 = 800.26 L. F.
S. B. U.S.R. 62 1111+30.22 to 1124+00.00 = 1269.78 L. F.
N. B. U.S.R. 62 1116+50.00 to 1118+48.00 = 198.00 L. F.

LEGEND

(1A)	Item 404	1 1/4" Asphalt Concrete (70-85)	
(2B)	Item 402	1 3/4" Asphalt Concrete (70-85)	
(3)	Item 310	Subbase	
(4)	Item 304	Aggregate Base	
(5)	Item 301	Bituminous Aggregate Base 702.01 (85-100) or 702.09 RT-11 or 12, thickness as shown, in Proposal)	(See Note
(6)	Item 409	Seal Coat Cover Aggregate No. 8 at 0.008 Cu. Yd. per Sq. Yd.	
(7)	Item 605	6" Underdrains	
(9)	Item 659	Seeding & Mulching as per plan	
(10)	Item 606	Curb, Type 6	
(11)	Item 605	Aggregate Drains	
(12)	Item 612	Concrete Median	
(15)	Item 606	Barrier Rail Type 5	
(16)	Item 409	Seal Coat Bituminous Material as per plan @ 0.30 Gal. per Sq. Yd. (See Note in Proposal)	
(HJ)	Hot Longitudinal Joints		

NOTES

*** The 6 ft. rounding applies to all backslopes intersecting the existing ground.
**** Pavement is a normal crowned section from 1143+03 to 1144+75.00.
** Underdrains 60" below Subbase in cut (Deep)
℄℄ for transition area see Pavement Details.
℄ Same slope as pavement or 1/2"/ft. min.
* Underdrains 30" below Subbase in fill (Shallow).
1. For requirements for use of Bituminous Pavers with Automatic Screed Control, see note in Proposal.
2. For Special spreading and surface tolerances, see note in Proposal.
3. Omit underdrains at high side of superelevated sections when in fill.
4. Slopes of aggregate drains to be 1/2" min. 3/16"/ft. normal, or outlet in the 4:1 slope if possible.
5. Aggregate drains shall be placed at fifty (50) foot intervals on each side or at twenty five (25) foot intervals left & right.
6. Sequence of Operations (1) Construct Item 310 Subbase. (2) Install Pipe Underdrain where required. (3) Backfill trench according to Specification 605.03 to the bottom of Item 304 in the Paved Shoulders. (4) Proceed with pavement and shoulder construction
7. The Contractor shall construct aggregate drains where underdrains are not shown in the plans.

N.B. & S.B. U.S.R. 62
TYPICAL SECTIONS

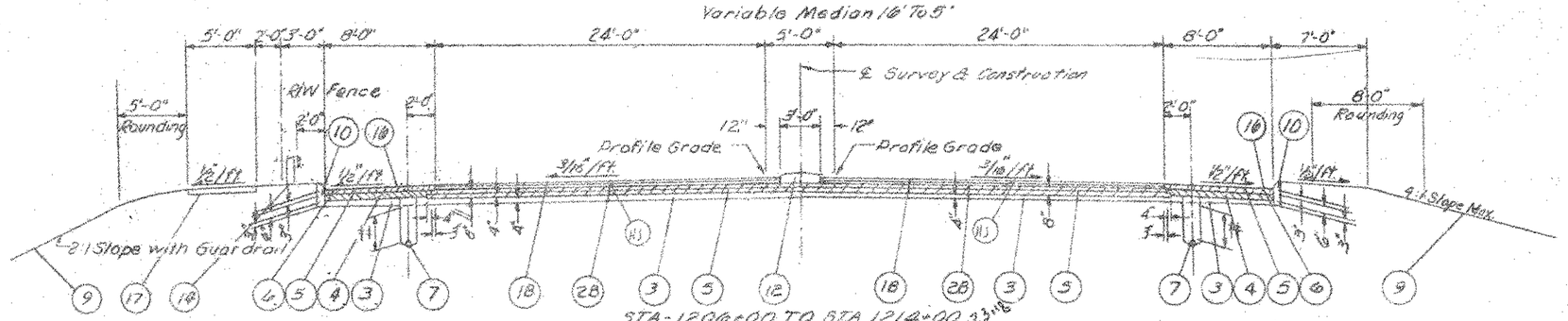
TYPICAL SECTIONS

TYPE 404
ON 301

FRANKLIN COUNTY
FRA 270 - 25
FRA 62 - 20.83

10

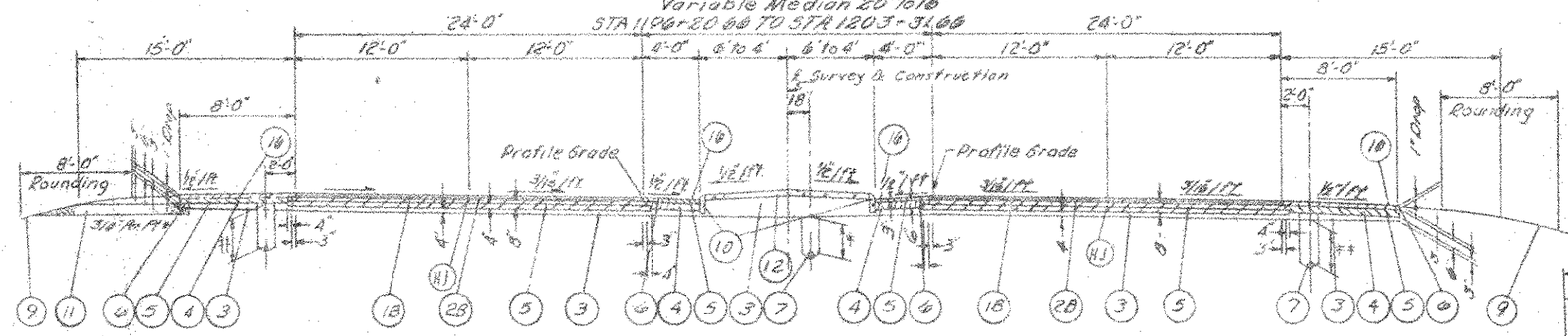
Variable Median 16' To 5'



STA-1206+00 TO STA 1214+00 23.18

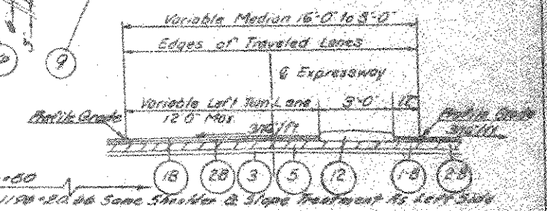
Variable Median 20' To 16'

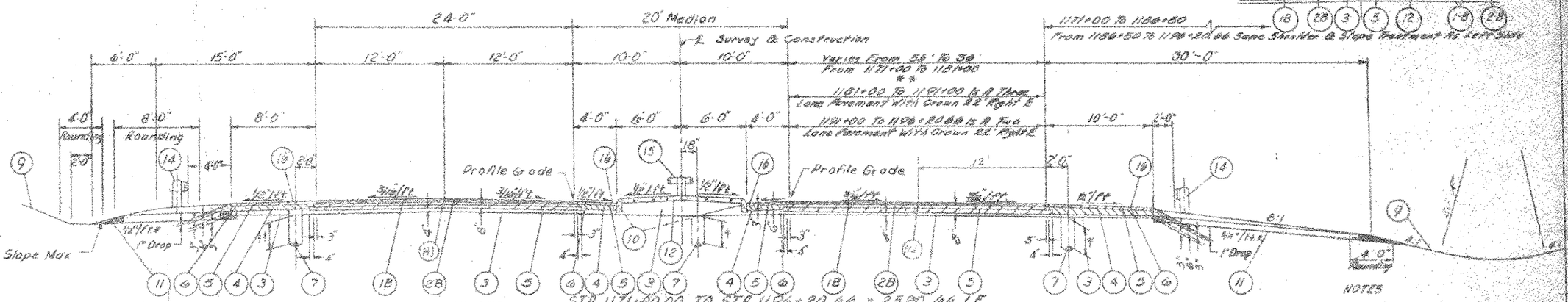
STA 1196+20.66 TO STA 1203+31.66



STA.1196+20.66 TO STA. 1206+00 23.03

VARIABLE MEDIAN
16' TO 5'
STA. 1206+00.00 TO STA 1214+00





STA 1171+00.00 TO STA 1196+20.66 = 2520.66 LF

22.30

LEGEND

(18) Item 404 - 1¼" Asphalt Concrete (70-85)
(28) Item 402 - 1¾ Asphalt Concrete (70-85)
(3) Item 310 - Subbase
(4) Item 304 - Aggregate Base
(H1) Hot Longitudinal Joint.
(5) Item 301 - Bit Aggregate Base 702.01 (85-100) Or 702.09 Rt. ~ 11 or 12 Thickness as Shown. (See Note in Proposal)
(6) Item 409 - Seal Coat Cover Aggregate No 8 At 0.008 CY/S.Y.
(7) Item 605 - 6" Under Drains
(11) Item 605 - Aggregate Drains
(17) Item 608 - Concrete Walk
(9) Item 659 - Seeding & Mulching As Per Plan
(10) Item 609 - Curb, Type 6
(12) Item 612 - Concrete Median
(14) Item 606 - Guard rail, Type 5
(15) Item 606 - Barrier Rail Type 5
(16) Item 909 Seal Coat Bituminous Material as per plan @ 0.301 S.Y. (See Note in Proposal)

NOTES

* Slopes Of Aggregate Drains To Be ½" Per Ft. Min. ¾" Per Ft Normal, or Outlet In The 4:1 Slope If Possible
** For Transition Area See Pavement Details
† Underdrains - 30" Below Subbase In Fill (Shallow)
†† Underdrains - 50" Below Subbase In Cut (Deep)
1. For Requirements For Use Of Bit. Pavers With Automatic Screed Control, See Note In Prop.
2. For Special Spreading And Surface Tolerances See Note In Prop.
3. Sequence Of Operations See Sheet No 8
4. The Contractor Shall Construct Aggregate Drains Where Underdrains Are Not Shown On The Plans.
5. Aggregate Drains Shall Be Placed At Fifty-Foot Intervals On Each Side At Alternate 25' Intervals Left And Right.

USE 6.B TYPICAL SECTION

TYPICAL SECTIONS

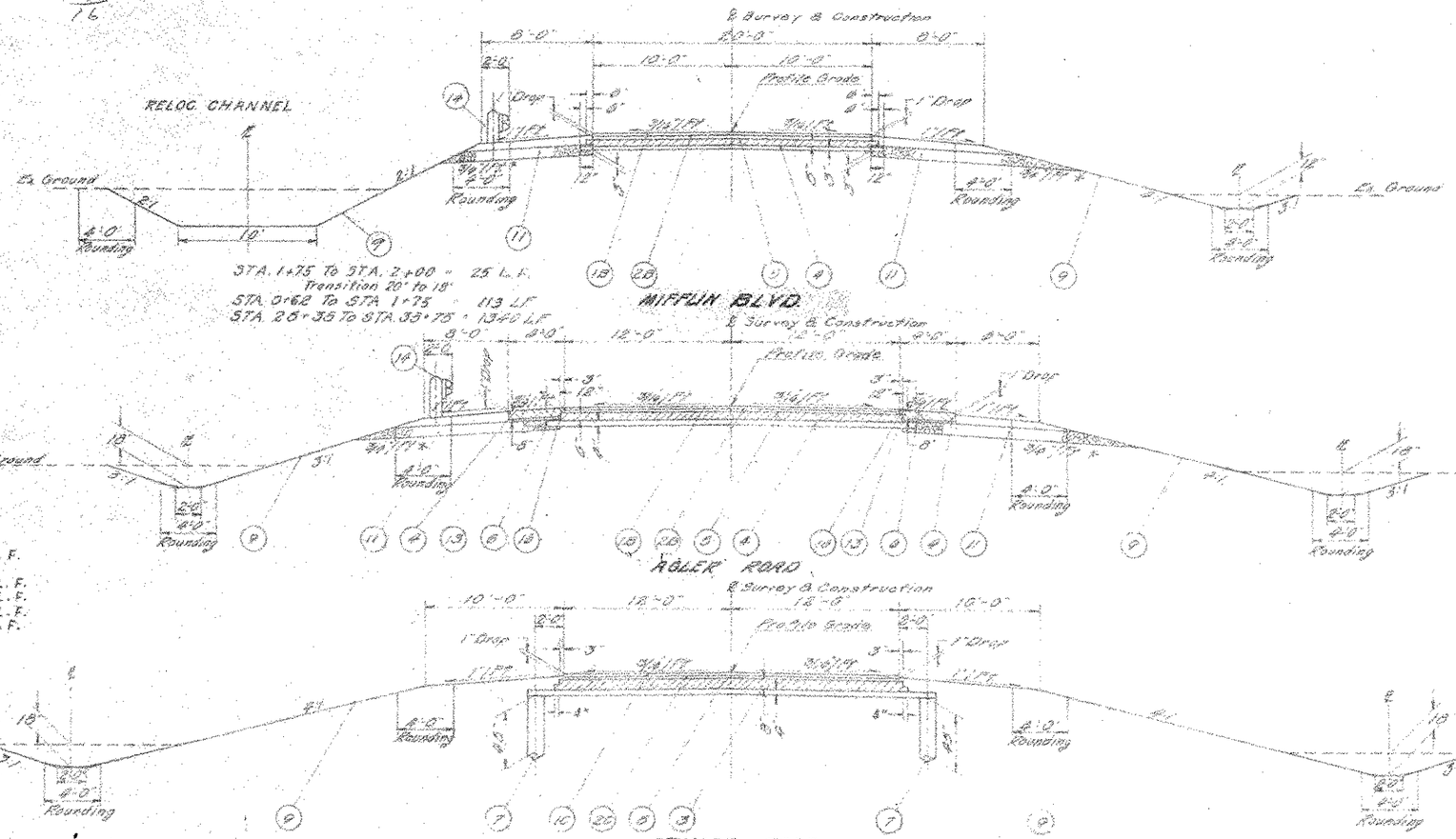
TYPE 404 on 301

FED. RD. DIVISION	STATE	PROJECT		11
2	OHIO			

FRANKLIN COUNTY
FRA-270-23.39 N
FRA-62-20.83

Mifflin Blvd

1½"	404
1½"	402
5"	301
3"	304
11"	



16+50.00 to 16+75.00 = 25.00 L.F.
Transition 20' to 24'
16+75.00 to 19+03.50 = 228.50 L.F.
19+46.50 to 23+17.42 = 370.92 L.F.
28+37.25 to 34+00.00 = 562.75 L.F.
34+00.00 to 34+25.00 = 25.00 L.F.
Transition 24' to 20'

NOTES

* Slopes Of Aggregate Drains To Be 12" Per Ft Min 24" Per Ft Normal

LEGEND

(1) Item 404 1½" Asphalt Concrete (70-28)
(2) Item 402 1½" Asphalt Concrete (70-28)
(1c) Item 304 1" Asphalt Concrete (70-28)
(3) Item 304 Subbase
(4) Item 304 Aggregate Base
(5) Item 301 Bit Aggregate Base PG 70-22 (PG 64-22) @ 702.09
Rt Use 12 Thick as shown (See Note in Plan)
(6) Item 409 - Seal Coat Cover Aggregate No 8 per 0.008 CY/SY
(7) Item 603 6" Under Drain
(8) Item 659 Seeding & Mulching (Ex Per Plan)
(11) Item 605 Aggregate Drains
(13) Item 407 Tack Coat - 702.09 PG 64-22 or RT-3 at 0.420 Gal/SY
Per Spl Itl
(15) Item 609 Seal Coat Barrier Material - 702.09 PG 70-22 or RT-70
702.02 MC-3000 or MC-3000 at 0.30 Gal/SY
(14) Item 606 Guard Rail Type 3

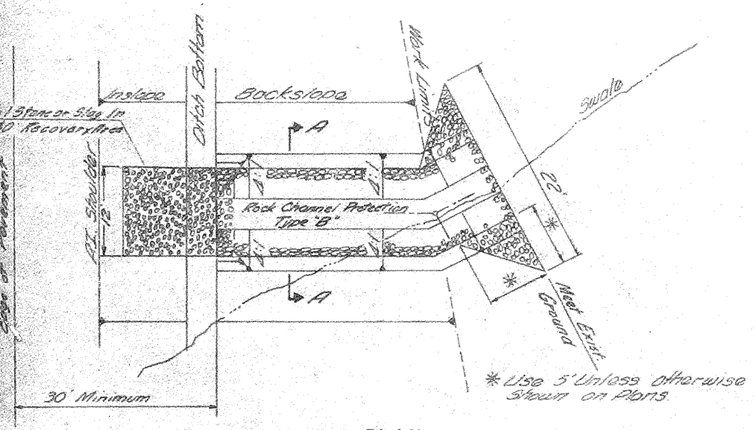
MIFFLIN BLVD. AGLER RD STYGLER RD

TYPICAL SECTIONS

MISCELLANEOUS DETAILS

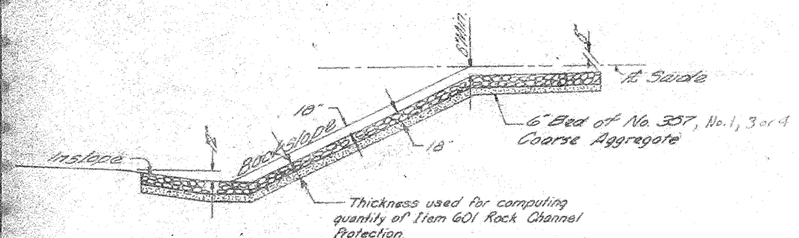
FED. RD. DIVISION	STATE	PROJECT		12
2	OHIO			

FRANKLIN COUNTY
FRA-270- 25.39 N
FRA- 62-20.83

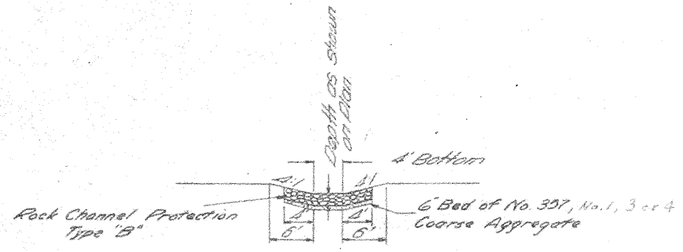


PLAN

Note: Portion of the Rock Channel Protection extending into the recovery area (30' from edge of Pav't.) shall conform to Material meeting the requirements of 601.05. Payment will be made as Rock Channel Protection as per plan.

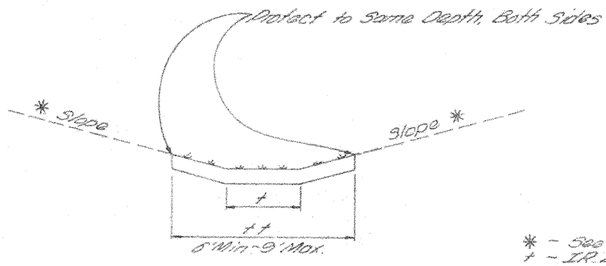


PROFILE



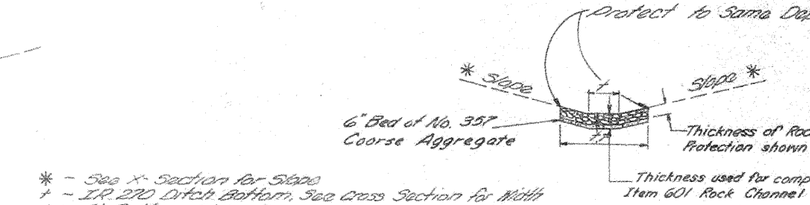
SECTION A-A

SWALE PROTECTION
ROCK CHANNEL PROTECTION, TYPE "B"

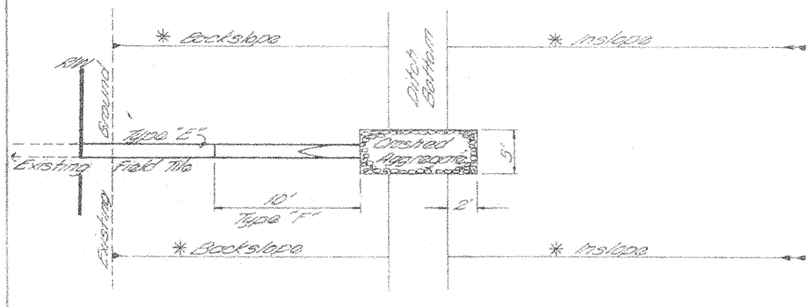


* - See X-Section for Slope
t - IR 270 Ditch Bottom, See Cross Section for Width
t - 2' Bottom, Side Road
tt - See Plan & Profile for Width

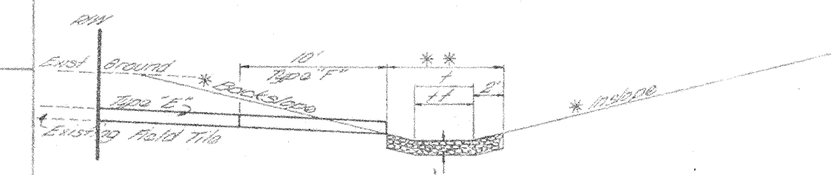
SOD DITCH PROTECTION



ROCK CHANNEL PROTECTION, TYPE "B"
(FOR DITCHES OUTSIDE THE 30' RECOVERY AREA)



PLAN

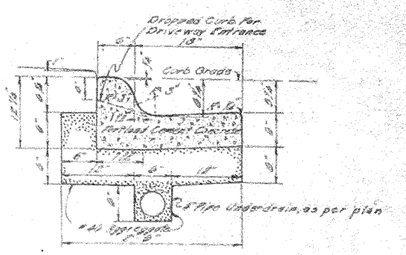


PROFILE

(CRUSHED AGGREGATE)

* - See X-Section for Slopes
** - See Plan for Length
t - 2' Bottom, Side Roads
tt - IR 270 Ditch Bottom, See Cross Section for Width.

FIELD TILE PROTECTION



DETAIL
CONC. COMBINED CURB & GUTTER
AS PER PLAN
Scale 1"=1'-0"

Curb Openings for Existing or Future Downspout Drains Shall Be Provided At the Time Of The Permanent Const. Cost To Be Included in the price bid for Item 609. All curbs shall be Sawed For Downspout Drain Placement After The Permanent Construction is Completed. Minimum Curb Cut Shall Be One Foot.

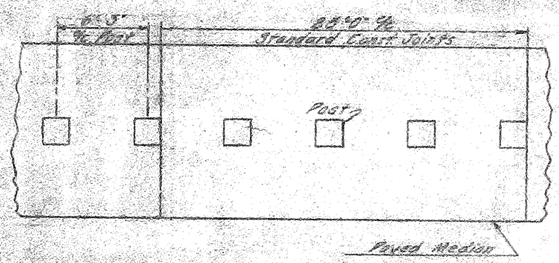
Cost for the No. 46 aggregate shall be included in the unit price bid of Item 605 4" shallow pipe underdrains, as per plan.

MISCELLANEOUS DETAILS

REG. NO. DIVISION	STATE	PROJECT		13
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

JOINT DETAIL AT GUARD RAIL POSTS



In Lieu Of The Spacing Requirements Of Standard Drawing MC-4 Expansion And Contraction Joints Shall Be Provided In The Concrete Median As Required Hereon Whenever Guardrail Is Specified.

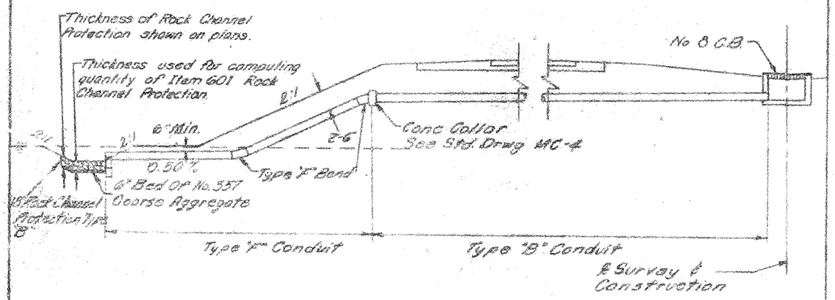
¾" Expansion Joints, 703.03, Shall Be Provided At Each Const. Joint, At Each End Of Each Inlet And Approximately 20 Feet and 60 Feet Beyond Each Approach Slab. Cost Included With 612 For Payment.

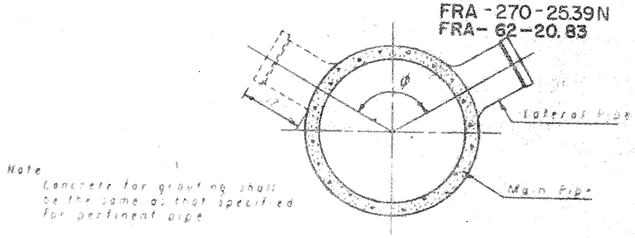
Contraction Joints Shall Conform With Details Shown On Standard Drawing B.P.A. 306 Base, Except That Spacing Shall Be 25'. Joint Opening Shall Not Extend Below Surface Of Boulder Paving.

Circular Or Square Openings May Be Cast In The Median Paving So That Guardrail Posts May Be Installed Later. Maximum Dimensions For Openings Shall Be 12" Diameter Or 18" Square. Remaining Space Shall Be Filled With 1:3 Grout Or Class C Concrete.

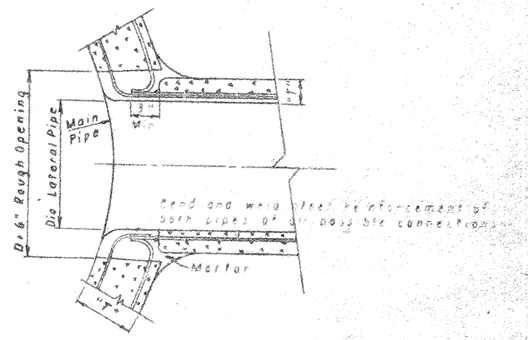
For Square Sawed Wood Posts, ¾" 705.03 Expansion Joint Material Shall Be Used On All Four Sides For The Depth Of Median. When Steel Posts Are Used, A Coating Of An Oil Such As S.A.E. 140 Or Other "Bond Breaking" Material Shall Be Applied To The Depth Of Median Prior To Placing The Concrete. Payment Shall Be Included In 612.

MEDIAN OUTLET DETAIL IN HIGH-FILL

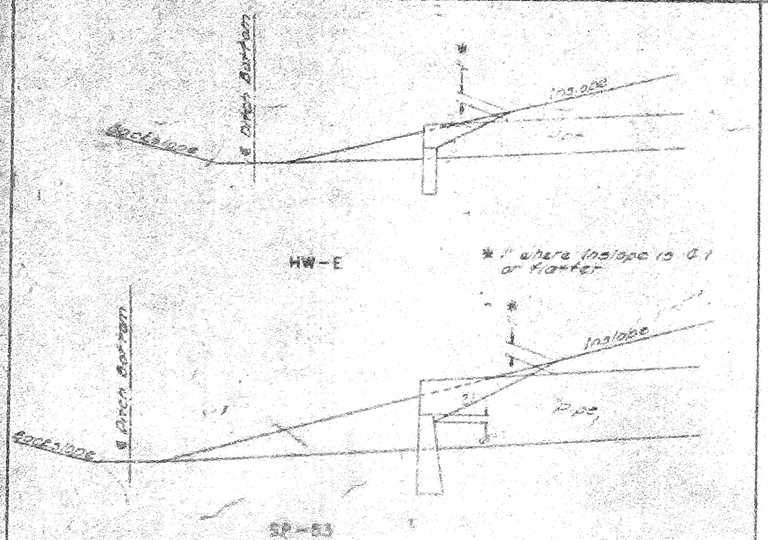




Note
Concrete for grouting shall be the same as that specified for pertinent pipe



PRE-FABRICATED "T" CONNECTION

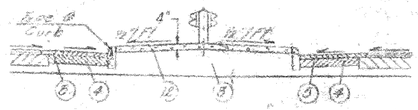


HW-E & SP-53 ENDWALL

CONCRETE MEDIAN

LEGEND
④ Item 304 - Aggregate Base
⑤ Item 301 - Bit. Aggregate Base 702.01 (as 703.100, or 703.09 FR 110, 12 Thickness as shown (See Note in Plans)
③ Item 310 Subbase Regular Grading
② Item 612 Conc. Median

NOTE
For Pavement Composition See Typical Sections
For Pavement Variation See Part Details

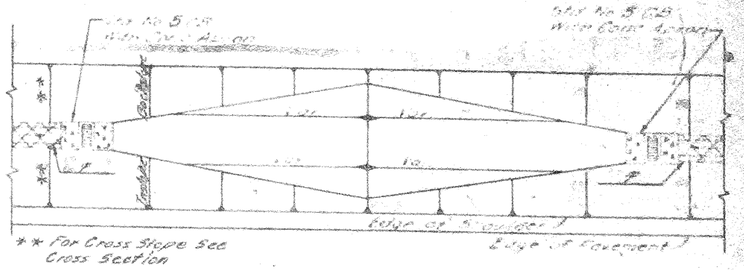


Joints ¾ inch Expansion Joints Shall Be Constructed at 20' Intervals. Metal Separator Plates Or Templets Shall Be Used If Necessary To Hold The Joint Material In Accurate Position During The Placing Of The Concrete.

Separator Plates Or Templets, If Used, Shall Be Removed As Soon As The Concrete Is In Place To Insure The Accurate Retention Of The Joint Material.

Expansion Joint Material Shall Meet The Requirements Of 705.03.

In Addition To The ¾ Inch Expansion Joints, Contraction Joints, Consisting Of A ¼ Inch Minimum Depth Impressed Joint Formed And Sealed As Per Standard Drawing BP-3, Shall Be Placed In The Concrete Median At Intervals Not To Exceed 10 Feet.



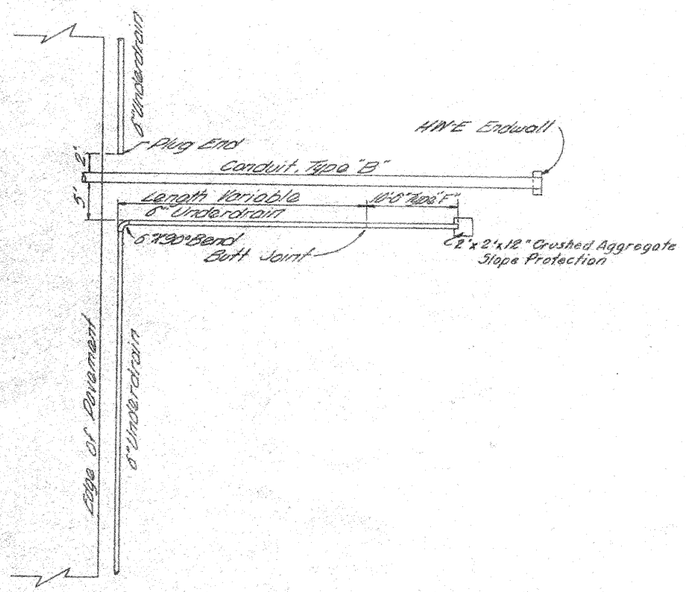
DITCH DETAIL FOR SAGS

TYPICAL DETAILS OF UNDERDRAIN OUTLETS

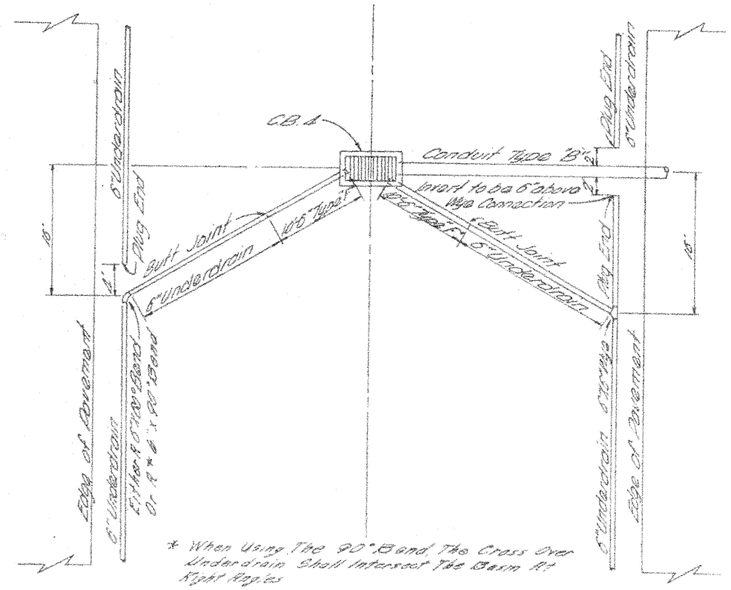
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

12

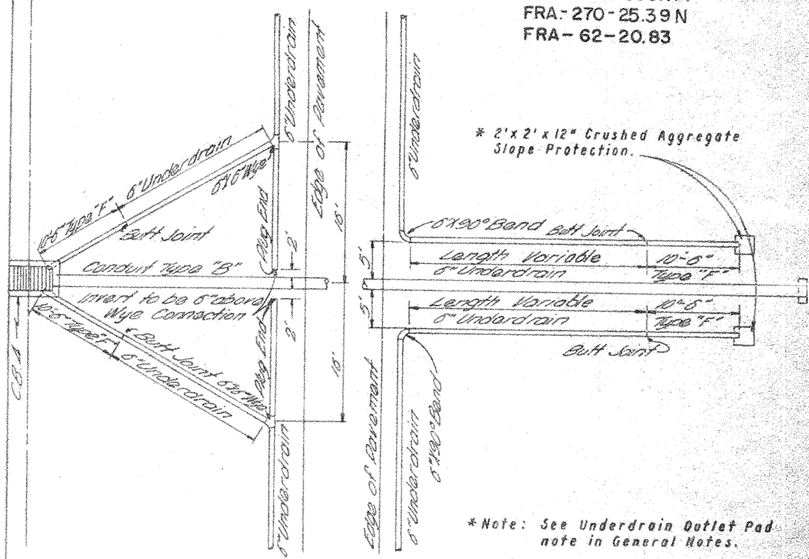
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83



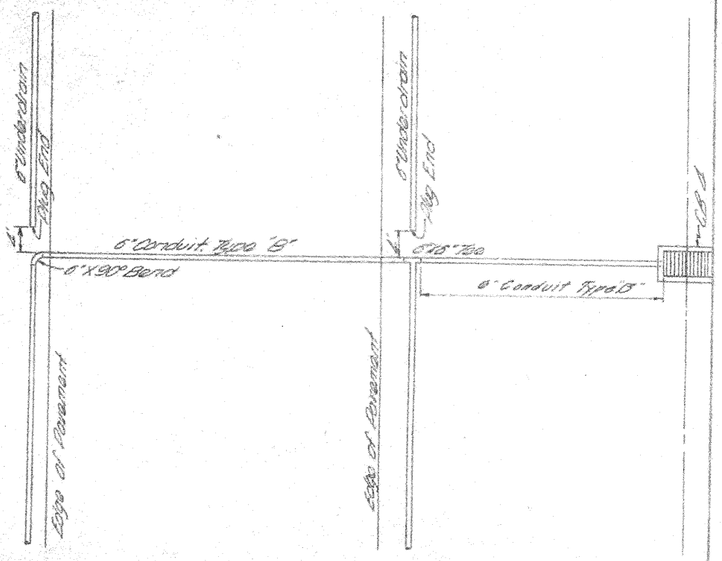
UNDERDRAIN OUTLET DETAIL "A"



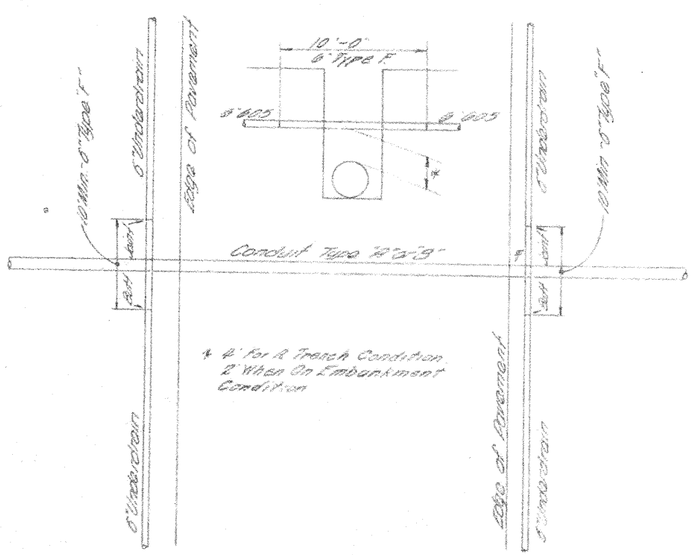
UNDERDRAIN OUTLET DETAIL "B"



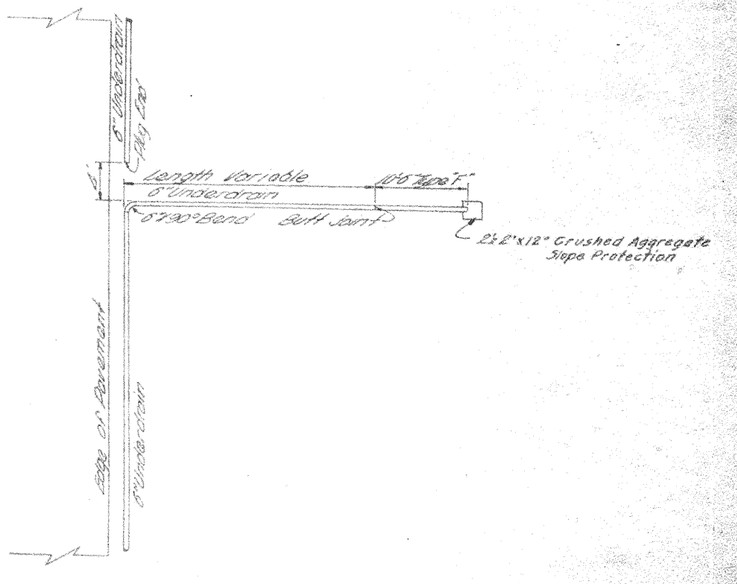
UNDERDRAIN OUTLET DETAIL "C"



UNDERDRAIN OUTLET DETAIL "D"



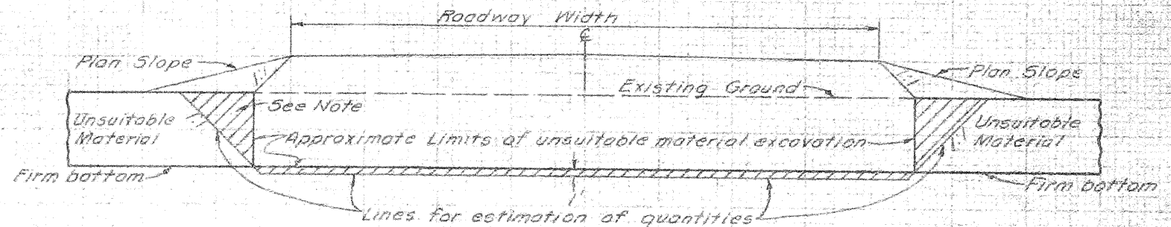
UNDERDRAIN DETAIL "E"



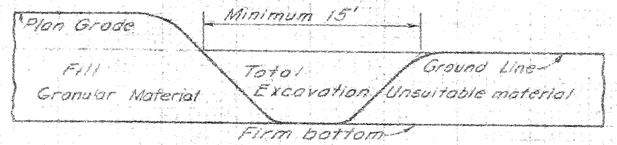
UNDERDRAIN OUTLET DETAIL "F"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83



CROSS SECTION



LONGITUDINAL SECTION

NOTES

TRENCHING AND BACKFILLING shall be carried progressively across the swamp and so coordinated as to leave an open trench not to exceed in length at any time the working reach of the equipment used for swamp excavation.

FILL shall be constructed by the method of end dumping, using granular material, up to the existing ground line as designated on the plan. Embankment required above this elevation, if any, shall be constructed in accordance with Sec. 203.07 of the Construction and Material Specifications.

GRANULAR MATERIAL required for swamp treatment shall meet the requirements of Sec. 203.02 of the Construction and Material Specifications modified to require at least 75 per cent by weight of the grains or particles to be retained on the No. 200 sieve.

EXCAVATED UNSUITABLE MATERIAL which is to be used adjacent to fills for slope flattening or which is piled adjacent to the fill to be disposed of later in accordance with Sec. 203.05 shall be shaped to its final position or removed from the area at least two weeks prior to paving operations on the fill.

EQUIPMENT used for excavation of unsuitable materials shall be located ahead of the excavation unless otherwise authorized by the Director.

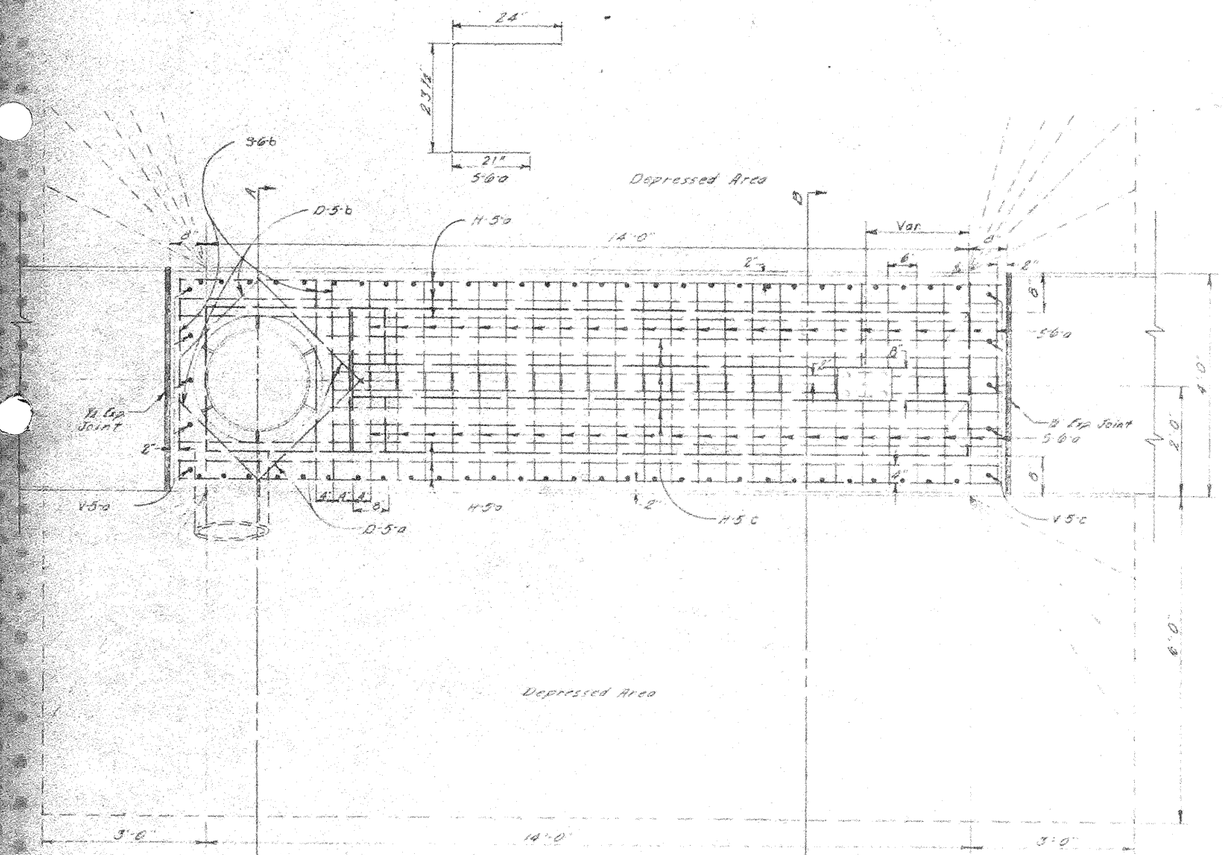
CROSS-HATCHED sections are included in quantities to allow for possible sloughing and undercutting.

PAYMENT for removal and disposal of the excavated unsuitable material and for all other operations involved in placing of granular material up to the existing ground line shall be included in the unit price bid for "Item 203 Borrow, using granular material, as per plan, including the cost of excavation of unsuitable material."

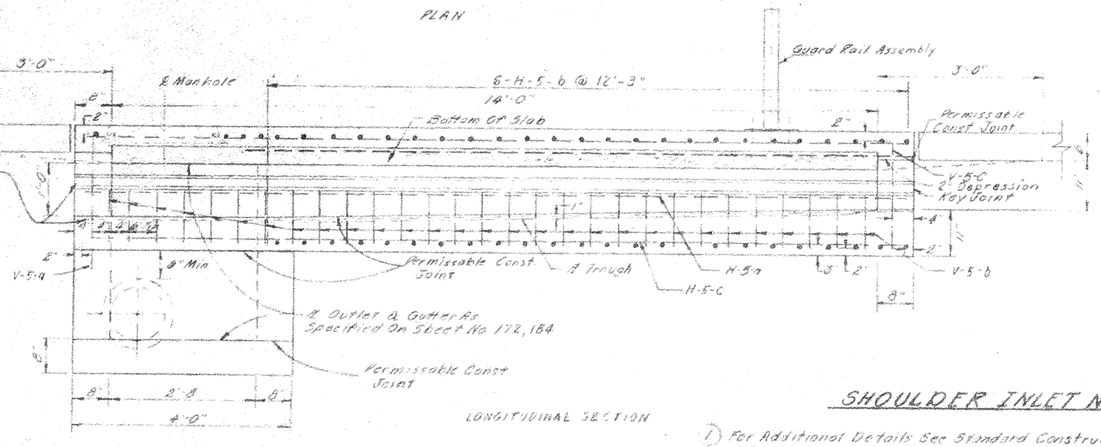
Note: For swamp treatment details see Sheets 205, 206, 209, & 210

SWAMP TREATMENT

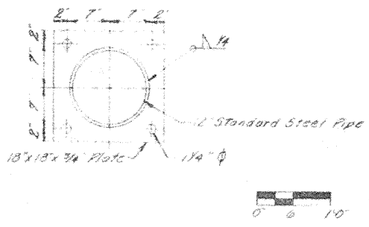
FRANKLIN COUNTY
FRA-270-25.33 N
FRA-62-20.83

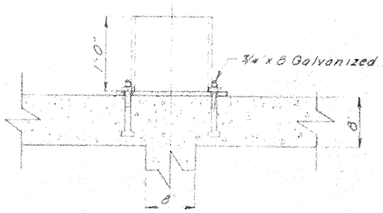


PLAN

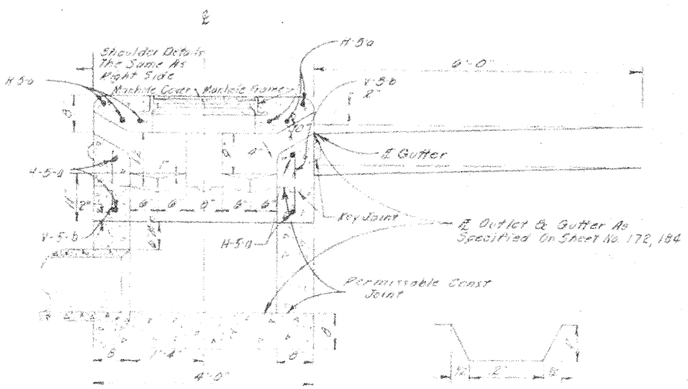


LONGITUDINAL SECTION

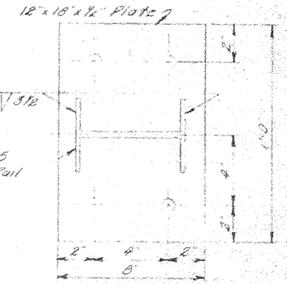




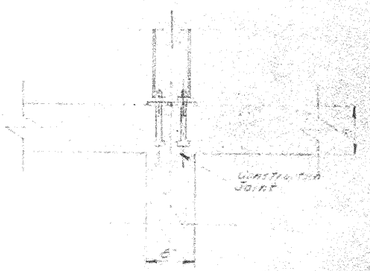
ALTERNATE BASEPLATE FOR WOOD GUARD RAIL POST

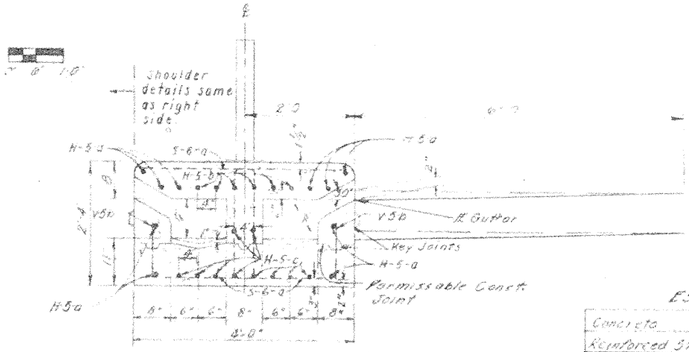


SECTION A-A



STEEL GUARDRAIL POST & BASEPLATE





SECTION B-B

ESTIMATING QUANTITIES*

Concrete				4½ C.Y.
Reinforced Steel				682 LB.
BAR	No.	L.F.	TOTAL L.F.	WEIGHT
A 3	4	9'3"	25'-0"	38 P.
A 4 E	2	3'3"	14'-0"	22
H-5-a	10	15'0"	150'-0"	157
C 5 b	4	18'-3"	73'-0"	77
V 5 a	2	6'-6"	13'-0"	13
V 5 b	30	1'0"	30'-0"	61
V 5 c	3	2'0"	10'-0"	11
C 5 a	2	2'-6"	5'-0"	6
V 5 c	2	2'-2"	4'-4"	5
H-5-c	10	11'-8"	116'-8"	122

* Quantities Are for Estimating Purposes Only. The Cost For Furnishing And Placing All Conc. And Steel Shall Be Included In The Unit Price Bid for Item 604 Shoulder Inlet No. 2-A-14 As Per Plan

SHOULDER INLET NO 2-A-14 AS PER PLAN

1) For Additional Details See Standard Construction Drawing I 2A And Sheet No 172, 184 Of These Plans

2) For Location Of Guard Rail Posts See Sheet No 172

3) Provide Steps For Well Depths In Excess Of 4' Feet. For Step Detail & Material See Standard Construction Drawing MH-1

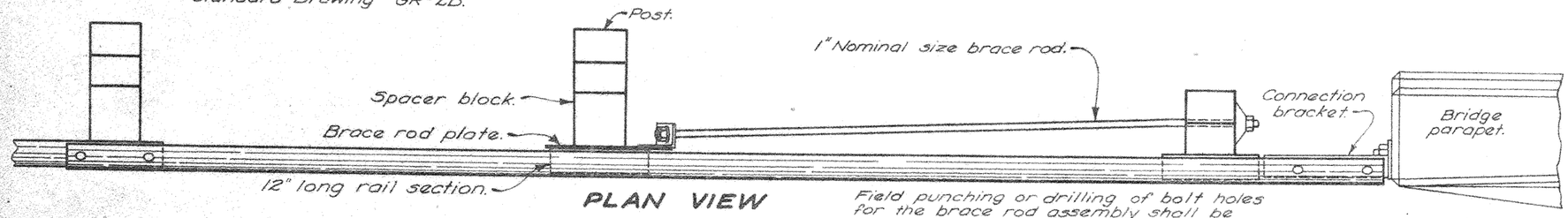
4) The Cost Of All Material, Tools, Labor, And Other Incidentals Necessary For The Placement Of Steel Guard Rail Base Plates, And Well Steps Shall Be Included In The Unit Price Bid For Item 604 Standard No. 2-A-14 Paved Shoulder Inlet, as per plan.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

16A

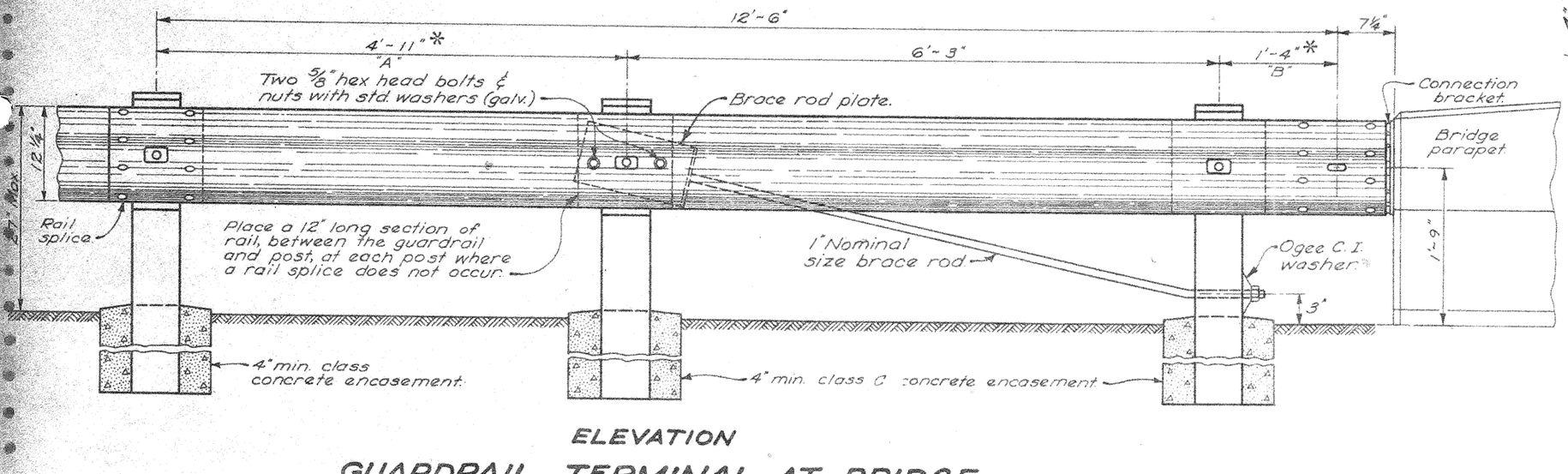
FRANKLIN COUNTY
FRA-270-25.39 N
FRA 62-20.83

Posts may be round or square-sawed wood, or 6 B 8.5 steel. See Standard Drawing GR-2B.



PLAN VIEW

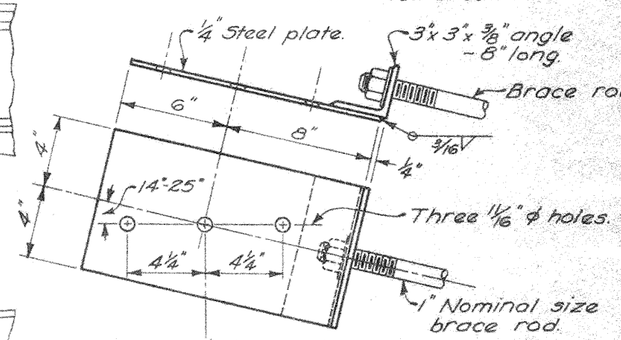
Field punching or drilling of bolt holes for the brace rod assembly shall be accomplished as provided for in 606.04.



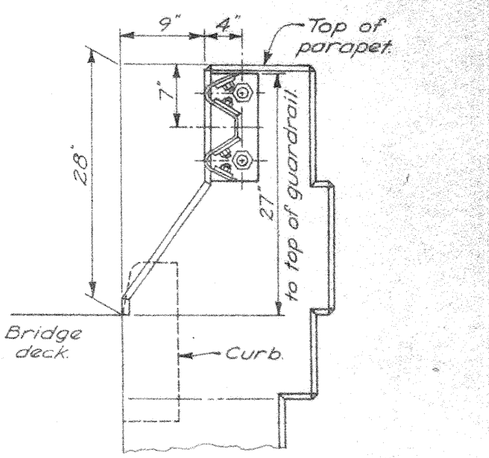
ELEVATION

GUARDRAIL TERMINAL AT BRIDGE

* Dimension "A" shall decrease as dimension "B" increases to accommodate interference by the bridge substructure.

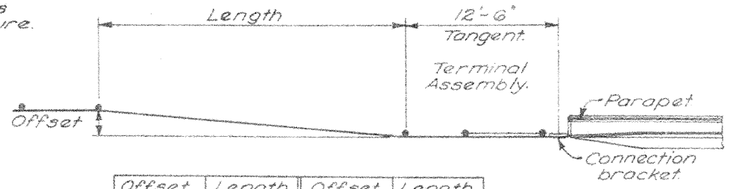


BRACE ROD PLATE



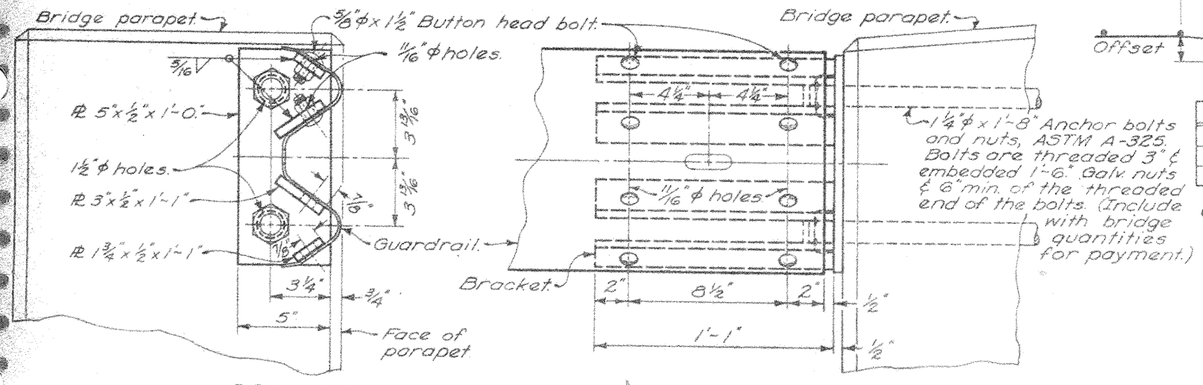
PARAPET APPROACH

For uncurbed approaches, guardrail shall be set 27" above ground line at face of rail. For curbed approaches guardrail shall be located 27" above gutter line and 9" behind the face of curb.



Offset	Length	Offset	Length
1'-0"	25.00'	5'-0"	100.00'
2'-0"	50.00'	6'-0"	100.00'
4'-0"	100.00'	7'-0"	100.00'

GUARDRAIL OFFSET DETAIL



CONNECTION BRACKET DETAIL

GUARDRAIL - BRIDGE CONNECTION

The connection bracket shall be galvanized after welding and shall be included with guardrail for payment.

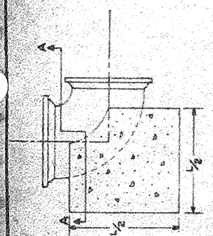
Rev. 7-10-68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

17

FRANKLIN COUNTY
FRA. 270-25.39 N
FRA. 62-20.63

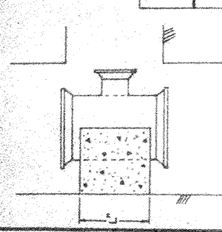
NOTE:
All concrete shall be Class "C" as specified under the State of Ohio Highway Specifications.



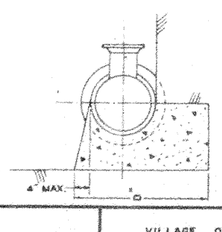
90° BENDS

SIZE OF PIPE	DEGREE OF BEND 11¼° D"	11¼° L"	22½° D"	22½° L"	45° D"	45° L"	90° D"	90° L"
6"	6	8	6	10	6	20	6	36
8"	6	9	8	14	8	24	8	50
12"	8	14	12	22	16	30	15	60
16"	16	18	16	24	36	33	22	70
20"	20	25	20	28	42	38	30	80
24"	24	21	24	31	36	52	38	92

STEEL WILL BE USED AS REQUIRED BY ENGINEER



BENDS LESS THAN 90°



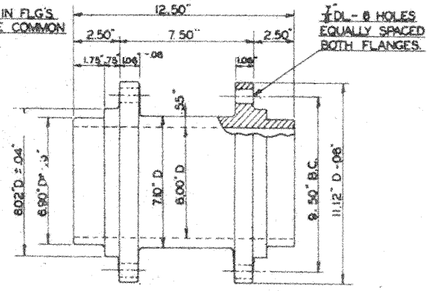
DETAIL OF AA

APPROVED
EVANS MECHWART HAMBLETON TILTON
VILLAGE ENGINEER
BY Robert Morris
Bernard N. Murray
MAYOR

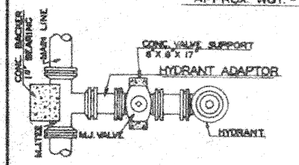
BACKING FOR BENDS

VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
2-13-65 | FILE No. G-34

¾" HOLES IN FLG'S. TO STRADDLE COMMON CENTERLINE.



6" C.I. HYDRANT ADAPTOR
APPROX. WGT. - 71#

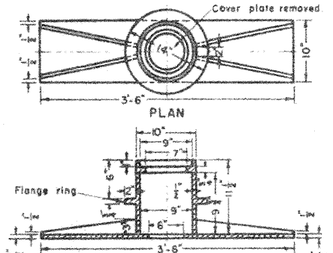


NOTE:
All concrete shall be Class "C" as specified under the State of Ohio Highway Specifications.

APPROVED
EVANS MECHWART HAMBLETON TILTON
VILLAGE ENGINEER
BY Robert H. Morris
Bernard N. Murray
MAYOR

6" C.I. HYDRANT ADAPTOR

VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
3-3-65 | FILE No. G-32



APPROVED
EVANS MECHWART HAMBLETON TILTON
VILLAGE ENGINEER
BY John L. Agler 2-7-67
Norman H. Moyer
PRESIDENT, BOARD OF PUBLIC AFFAIRS
Philip S. Maxwell
MAYOR

STANDARD VALVE BOX (TRAFFIC TYPE)

VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
9-30-59 | FILE NO. G-22

NOTE:
All concrete shall be Class "C" as specified under the State of Ohio Highway Specifications.

RUN	BRANCH 6" D"	6" L"	8" D"	8" L"	12" D"	12" L"	16" D"	16" L"	20" D"	20" L"	24" D"	24" L"
6"	7	16	8	18	12	18	16	24	20	30	24	36
8"	8	14	8	18	12	14	16	18	20	24	24	30
12"	12	9	12	12	16	10	20	9	24	24	24	30
16"	16	8	16	14	20	19	24	24	24	33	24	42
20"	20	8	20	24	24	22	24	24	36	36	42	42
24"	24	8	24	24	24	24	24	30	24	42	24	62

STEEL WILL BE USED AS REQUIRED BY THE ENGINEER.

APPROVED
EVANS MECHWART HAMBLETON TILTON
VILLAGE ENGINEER
BY Robert Morris
Lawrence D. Fisher
DIRECTOR OF PUBLIC SERVICE

BACKING FOR TEES

VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
3-1-65 | FILE No. G-35

NOTE:
All concrete shall be Class "C" as specified under the State of Ohio Highway Specifications.



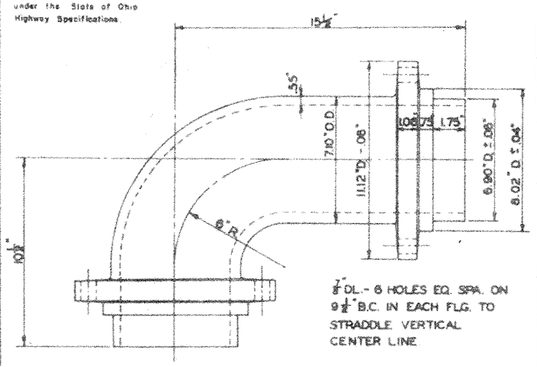
SIZE OF VALVE	L
6"	17"
8"	20"
12"	24"
16"	30"
20"	36"

APPROVED
EVANS MECHWART HAMBLETON TILTON
VILLAGE ENGINEER
BY Robert Morris
Bernard N. Murray
MAYOR

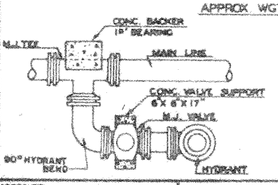
CONCRETE VALVE SUPPORTS

VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
2-28-65 | FILE No. G-33

NOTE:
All concrete shall be Class "C" as specified under the State of Ohio Highway Specifications.



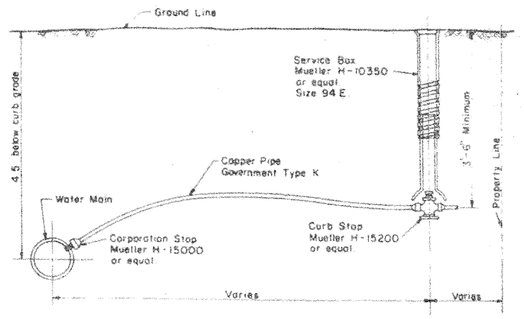
6" 90° HYDRANT BEND
APPROX WGT 85# EA.



APPROVED
EVANS MECHWART HAMBLETON TILTON
VILLAGE ENGINEER
BY Robert Morris
Bernard N. Murray
MAYOR

6"-90° HYDRANT BEND

VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
2-13-65 | FILE No. G-31



APPROVED
EVANS, MECHWART, HAMBLETON & TILTON
VILLAGE ENGINEER
BY John L. Agler
Norman H. Moyer
PRESIDENT, BOARD OF PUBLIC AFFAIRS
Philip S. Maxwell
MAYOR

STANDARD WATER SERVICE

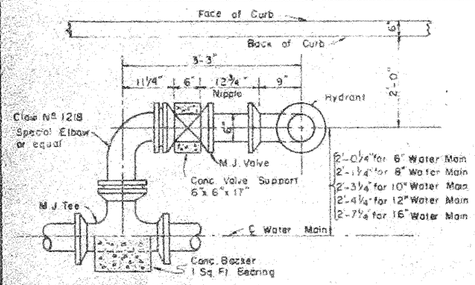
VILLAGE OF GAHANNA, OHIO
STANDARD CONSTRUCTION DRAWING
FILE NO. G-26

WATER LINE DETAILS

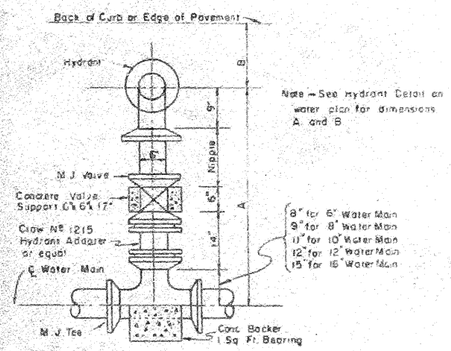
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

18

FRANKLIN COUNTY
FRA-270-25.39N
FRA-02-20.83



TYPICAL HYDRANT DETAIL "A"



Note – See Hydrant Detail on water plan for dimensions A and B

TYPICAL HYDRANT DETAIL "B"

All hydrants shall be Kennedy – K11, Eddy, or Mueller, and of the type with a structurally weakened section through the standpipe and stem.

Each hydrant shall have two 2 1/2 -inch hose nozzles and one 4-inch pumper nozzle, Columbus Standard Threads and the operating nut and cap nuts shall be square, tapered from 7/8-inches at top to 1-inch at the bottom and 1 1/4-inches in height.

The hydrant shall open by turning to the left (Counterclockwise).

Hydrant barrels shall be 5-foot bury. Extensions shall be used in all cases where necessary to bring the hydrant ground line to finished ground elevation.

Hydrants shall be set plumb, 2-feet from back of curb to centerline of standpipe, to the proper grade, and to clear driveway openings by a minimum of 10-feet.

The hydrant shall be securely blocked against undisturbed earth by placing a 2"x 12"x 24" solid oak plank against the bank opposite the hydrant connection and driving a 4"x 4" solid oak post tightly between the hydrant shoe and the plank.

Hydrant drip valves shall be permanently and securely closed by means of threaded connections or plugs.

The hydrant trench shall be backfilled with crushed aggregate, power tamped in layers not to exceed 6-inches in thickness loose measurement and to within 6-inches of finished ground level.

The hydrant body shall be painted with two coats of an approved aluminum paint and the hydrant and nozzle caps with two coats of an approved vermilion red enamel after installation.

Hydrant leads shall be 6" Ductile Iron Pipe.

The hydrant shall be provided with a watch valve and the valve shall be strapped to the hydrant tee in a manner approved by the Village Engineer.

The watch valve shall be provided with an approved box and the cover of the box shall be set flush with the finished ground level.

The entire hydrant installation shall meet all the requirements of and be acceptable to the Village of Gahanna.

The main valve shall be 4 1/2 or 4 3/4 -inches in diameter.

Maximum distance between hydrants shall be 450-feet.

The stuffing box shall contain O-Ring type seal construction.

APPROVED EVANS MECHWART HAMBLETON FILTON INC. VILLAGE ENGINEER	VILLAGE OF GAHANNA, OHIO
BY Robert Harris	STANDARD CONSTRUCTION DRAWING
BY Charles A. Smith DIRECTOR OF PUBLIC SERVICE	TYPICAL HYDRANT DETAILS
	6 JAN 1969 — FILE NO. G-25

WATER LINE DETAILS

FED. H. DIV.	STATE	PROJECT	
2	OHIO		

19

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

GENERAL NOTES

ITEM 619 FIELD OFFICE

The Contractor shall provide a minimum of1200 square feet of floor space for the Field Office and in addition to the requirements of Item 619, shall provide and maintain sanitary provisions as per 107.06.

All the above is included in the lump sum price bid for Item 619, Field Office.

ELEVATION DATUM

All elevations are based on U.S.G.S. datum.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

The round corners shown on the typical sections, apply to all cross sections, even though otherwise shown on these plans.

UNDERGROUND UTILITIES

The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio does not guarantee their accuracy or completeness.

ESTIMATED QUANTITIES

Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project.

CONSTRUCTION LAYOUT STAKES

See note in proposal describing the work included in this lump sum pay item.

SUPERELEVATION

Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in the portion between the beginning of the transition and the point where the superelevation equals twice the crown.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS

The Contractor shall furnish, erect, maintain and subsequently remove Federal Aid Construction Identification Signs at each of the following approximate locations:

1) Agler Road Sta. 15+00, 30' Rt.
2) Agler Road Sta. 35+70, 30' Lt.
3) U.S. 62, Sta. 1107+60, 175' Rt.
4) U.S. 62 Sta. 1214+85, 50' Lt.

All FACI Signs shall be located 30' minimum from traveled lane.

Sign details shall be as specified on Standard Drawing FACI-1, "Code N-55 (2) - 120 (3)".

The signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

REMOVAL OF TREES AND STUMPS

All trees and stumps specifically marked for removal within the construction limits of this project shall be removed under the lump sum price bid for Item 201 Clearing and Grubbing, except that those trees for which protection and preservation work is indicated elsewhere in these plans shall not be removed.

The following is an approximate estimate of the number of trees and stumps to be removed:

	I-270-5(18)117 URBAN		U-202(5)		I-270-5(18)117 RURAL	
	Trees	Stumps	Trees	Stumps	Trees	Stumps
18"	5	0	63	0	391	0
30"	1	0	11	0	29	0
48"	1	0	—	0	—	0

All trees within the right-of-way limits of this project and outside the work limits shall be reviewed by the Egnineer subject to their salvage or removal.

The method for marking trees and shrubs to be salvaged or removed shall be established by the Engineer. No work will be permitted in areas where trees are present prior to the staking, by the Contractor, of the work limits.

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201, Clearing and Grubbing.

PAVEMENT REMOVAL OUTSIDE NORMAL CONSTRUCTION LIMITS

After the existing pavement as indicated on the plans has been removed, the old roadway shall be graded to the level of the surrounding ground, the old ditches filled and the disturbed areas sloped to drain and left in a neat condition ready for seeding. Seeding shall be measured and paid for in accordance with Item 659 Seeding and Mulching. Payment for all other work required shall be included in the unit price bid for Item 202 .

STANDARD CENTERLINE REFERENCE MONUMENTS

For locations, see sheet numbers 420 & 421.

LOCATIONS OF GUARDRAIL

The locations of guardrail runs as shown in these plans are subject to adjustment to assure that the planned installations will afford maximum protection for traffic.

ITEM 659 SEEDING

(A) Agler Road - Mifflin Blvd.

Quantities for seeding are calculated for the soil areas between lines ten (10) feet outside the work limits, as shown on the cross sections or to the right-of-way line if such line is less than ten (10) feet from the work limits.

(B) U.S.R. 62 (Sta. 1188+00 to Sta. 1214+00)

Stygler Road - Ridenour Road

Quantities for seeding are calculated for the soil area to the right-of-way line or to temporary construction limits outside the right-of-way.

ITEM 659 SEEDING (Continued)

(C) Interstate Route 270

Quantities for seeding are calculated for the soil areas between the right-of-way fence lines, between the right-of-way lines in unfenced areas, and within the work limits for areas outside the right-of-way lines covered by work agreement or slope easement.

Seeding Formula

The following seed mixture shall, in lieu of the mixture listed in 659.09 be used throughout the limits of this project:

55% Creeping Red Fescue (Festuca Rubra)
35% Kentucky Blue Grass (Poa Pratensis)
5% Red Top (Agrostis Alba)
5% White Dutch Clover (Trifolium Repens)

The seed bed shall be loosened to a minimum depth of 2" as prescribed in 203.04(c) and 659 fertilizer. Seeded areas with any loose depth of less than 2" will not be accepted.

When asphalt is used as a tie, it shall be applied at the rate of 100 gallons per ton of mulch.

No asphalt shall be applied when the temperature is below 40°F.

When straw is used as a mulch it shall be applied at such a rate as to insure minimum two (2) inch depth loose measure, approximately two (2) tons per acre.

AGRICULTURAL LIMING, AS PER PLAN

The location and need for agricultural liming will be determined by laboratory tests, after rough grading operations have been performed. Quantities of agricultural liming, as shown on the plans, are sufficient for the entire project, but will be nonperformed for the areas where tests show that the liming is not required.

ITEM 659 FERTILIZER

Fertilizer with the analysis of 18-46-0 shall be uniformally applied at the rate of fifteen (15) pounds per 1000 sq. ft. over the entire area to be seeded or sodded and worked into a depth of not less than two (2) inches.

OVERSEEDING OF PROTECTED AREAS

Items 667 and Supplemental 830 are to be overseeded with Annual Rye Grass (Lotium Multiflorum) at the same rate as prescribed in 667.03 for Kentucky 31 Fescue.

GENERAL NOTES

ITEM SPECIAL - DRILLED WELL ABANDONED

The existing concrete or stone slab well cover and pumping equipment shall be removed and disposed of. The casing shall be cut off at least one (1) foot below the proposed finished grade outside the proposed pavement areas or at least one (1) foot below the proposed subgrade elevation inside proposed pavement areas and capped with Class "C" concrete or a standard threaded pipe cap.

The unit price bid for each "Drilled Well Abandoned" shall include payment for all labor, tools, materials and incidentals necessary to complete this item.

The following estimated quantities have been included in the General Summary for the work noted above:

	I-270-5(18)117 Rural	U-202(5)
Item Special Drilled Well Abandoned	55	1

ITEM SPECIAL - CLEANING PRIVY VAULT

Privy vaults shall be emptied and cleaned as directed by the Engineer.

The material removed from these vaults shall be classified as unsuitable and disposed of outside the limits of right-of-way or easement lines. The privy vaults shall subsequently be backfilled with suitable soil or granular material in accordance with 203.

This item shall be paid for at the unit price bid per each for "Item Special-Cleaning Privy Vault", which price and payment shall constitute full compensation for cleaning, removing and disposing of the unsuitable material, backfilling and for all labor, tools, equipment and incidentals necessary to complete this item.

ITEM SPECIAL - CLEANING AND DISPOSING OF SEPTIC TANKS

This item shall include cleaning, backfilling and removing of all or any portion of existing septic tanks.

All septic tanks lying within the proposed right-of-way limits shall be emptied and cleaned. Material removed from these tanks shall be classified as unsuitable and disposed of outside the right-of-way or easement lines.

When the septic tanks are located above the finished pavement or ground lines, they shall be entirely removed and disposed of in accordance with 202.

When the tanks are located below the finished pavement or ground lines, the tops of the tanks shall be removed, and the walls shall be removed to a depth of one (1) foot below the finished subgrade or ground lines. The removed material shall be disposed of as explained above. The tanks shall subsequently be backfilled with suitable soil or granular material in accordance with 203.

This item shall be paid for at the unit price bid per each for "Item Special - Cleaning and Disposing of Septic Tanks", which price and payment shall constitute full compensation for cleaning, removing and disposing of excess materials, backfilling and for all labor, tools, equipment and incidentals necessary to complete this item including incidental excavation.

ITEM SPECIAL - CLEANING AND DISPOSING OF SEPTIC TANKS (Continued)

The following estimated quantities have been included in the General Summary for the work noted above:

	I-270-5(18)117 Rural	U-202(5)
Item Special, Cleaning and Disposing of Septic Tanks	64	2

FARM DRAINS

All farm drains which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors which are located below the roadway ditch elevations and which cross the roadway shall be replaced within the right-of-way limits by Item 603, Conduit, Type B, one commercial size larger than the existing conduit

Existing collectors and isolated farm drains which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch by 603 Type F Conduit. The optimum outlet elevation shall be, if possible, one foot above the flowline elevation of the ditch. Lateral field tile which cross the roadway shall be intercepted by 603 Type E Conduit and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of required replacements shall be determined by the Engineer during construction and payment shall be made on final measurements.

The following estimated quantities have been included in the General Summary for the work noted above:

		I-270-5(18)117 URBAN	U-202(5)	I-270-5(18)117 RURAL
Item 603	6" Conduit, Type "B"	30 L.F.	90 L.F.	180 L.F.
Item 603	8" Conduit, Type "B"	30 L.F.	90 L.F.	180 L.F.
Item 603	12" Conduit, Type "B"	30 L.F.	90 L.F.	180 L.F.
Item 603	6" Conduit, Type "E"	15 L.F.	45 L.F.	90 L.F.
Item 603	8" Conduit, Type "E"	15 L.F.	45 L.F.	90 L.F.
Item 603	12" Conduit, Type "E"	15 L.F.	45 L.F.	90 L.F.
Item 603	6" Conduit, Type "F"	5 L.F.	15 L.F.	30 L.F.
Item 603	8" Conduit, Type "F"	5 L.F.	15 L.F.	30 L.F.
Item 603	12" Conduit, Type "F"	5 L.F.	15 L.F.	30 L.F.
Item 601,	Crushed Aggregate Slope Protection	3 S.Y.	7 S.Y.	15 S.Y.
Item 604,	Standard Number 2-2-B Catch Basin As Per Plan		1 Ea.	1 Ea.

All necessary bends and branches shall be included for payment with the conduit of which they become a part.

None of the above materials shall be ordered by the Contractor until requested by the Engineer.

SPRING DRAINS

Reference is made to the Standard Drawing MC-1 showing the method of draining any spring that may be shown on the plan or encountered during construction as determined by the Engineer. The following estimated quantities have been included in the general summary for this purpose:

	U-202(5)	I-270-5(18)117 RURAL
Item 605 - 6" Unclassified Pipe Underdrain, 707.01, Type III, or 707.12 As Per Plan	100 L.F.	100 L.F.
Item 605 - Aggregate Drains For Springs, As Per Plan	10 L.F.	10 L.F.

The Contractor shall not order materials for "Spring Drains" until authorized by the Engineer and in the event no springs are encountered, the item shall be non-performed.

LOCATION AND SIZE OF PIPE

The location, type, depth and size of all existing pipes are shown as nearly exact as the available information will permit. The State will not be responsible for any variations found during construction.

REMOVAL OF EXISTING PIPE

The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

CONNECTIONS TO EXISTING PIPE

At places where the plans provide for proposed pipe to be connected to, or cross over or under, existing pipe, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The Cost of this operation shall be included in the unit price bid for the pertinent 603 Conduit Item.

ITEM 605 AGGREGATE DRAINS

Aggregate drains shall be placed at fifty (50) foot intervals on each side of normal crowned sections and at twenty-five (25) foot intervals on the low side only of superelevated sections, except where Item 605 Pipe Underdrains have been provided.

An aggregate drain shall be placed at the low point of each sag vertical curve.

ITEM 605 PIPE UNDERDRAINS

Item 605 Pipe Underdrains shall be installed as soon as possible after completion of the rough grading and in any event shall be placed prior to placement of the 301 bituminous aggregate under the mainline pavement.

MAINTENANCE OF SEWER FLOWS

The Contractor shall conduct his operations so as to maintain at all times sewer flows through existing facilities to remain in place and through existing facilities to be replaced until new facilities are completed and placed into use.

2	0410			

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

GENERAL NOTES

MAINTENANCE OF SEWER FLOWS (Continued)

Payment for any additional costs involved in maintaining these flows by pumping or by any other means approved by the Engineer shall be included in the unit prices bid for the respective items of 603 Conduit.

SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS

This plan makes no provision for connecting, nor shall the Engineer or Contractor connect, any existing or new drainage into the Interstate Limited Access drainage system when such drains carry flow from any plumbing fixtures including floor drains and sink drains or drains from live-stock lots or barns.

Existing pipe carrying flow which comes within the category outlined above shall be plugged with Class "C" Concrete at the right-of-way lines. Payment for said plugging shall be included in the unit price bid for Item 203, Excavation.

TREATED SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS OTHER THAN INTERSTATE

Treated sanitary flow may be discharged into either the State Highway drainage system or the County Highway system provided the owner has secured the approval of the approval of either the State Health authorities or the County Health authorities. He must also acquire from the State Highway Department or the County Highway Department, the offical permit to have the connection made. The permit should be obtained from the County if a County Road or the State if a State Highway.

In each case where a permit has been issued for a sanitary connection to be made into a highway drainage conduit, it shall be provided with an inspection well, in accordance with the standard detail MC-8, located approximately one foot inside the right-of-way line.

The following estimated quantities have been included in the general summary, for use as directed by the Engineer in making the above described connection:

	U-202(5)	I-270-5(18)117 Rural
Item 603 6" Conduit, Type C	50 L.F.	50 L.F.
Item 604 Inspection Wells	1 Ea.	1 Ea.

And necessary pipe specials which shall be included for payment in the pertinent conduit item.

None of the above materials shall be ordered by the Contractor until authorized by the Engineer.

EROSION CONTROL

Item 601 (Riprap, Rock and Paved Gutter), 660 (Sodding) and 667 (Jute Matting) is provided in the plans for erosion control. Rock of a stable nature will not be removed in order to place any of these items. The Engineer shall check and non-perform quantities or adjust locations and quantities for these items where indicated by field conditions during construction.

STANDARD NO. 2-2-B CATCH BASIN, AS PER PLAN

Eliminate the grating and replace with a 3/4" steel plate, 2' - 3-1/2" x 2' - 3-1/2". The top plate shall be a maximum of 6" above ground, and provided with a 1" diameter lift hole.

STANDARD NO. 4 CATCH BASIN

The flow line of the grate is at the front edge of the grate at catch basin center line.

STANDARD NO. 6 CATCH BASIN, AS PER PLAN

Depress grate 2" in lieu of 1" as per Standard Drawing CB-6.

The stationing as listed in the plans is to the center of the grate, and the elevation is on the grate.

ROCK CHANNEL PROTECTION

Rock channel protection at the outlet of pipes as shown on the plans shall be placed immediately after the pipe has been placed and the outlet channel is cut.

The location of rock channel protection at swales shall be adjusted by the Engineering during construction to fit the swale.

All rock channel protection shall be placed on a 6" thick bed of No. 357* coarse aggregate. The volume of the aggregate bed is included in the volume for rock channel protection.

* or No. 1, 3 or 4.

MANHOLE, CATCH BASIN AND INLET ELEVATIONS AND STATIONING

The flow line of all catch basins are at the flow line of the grate, stationing and distance right or left to the basin is to the center of the basin.

The flow line of all paved shoulder inlets is to the flow line of the gutter, stationing and distance right or left to the inlet is to the center of the manhole.

UNDERDRAIN OUTLET PADS

In lieu of the outlet pad shown on Standard Drawing MC-4, a 2' x 2' x 1' thick pad of material, meeting the requirements of 601.05, shall be used at the outlet of underdrain pipes. Payment shall be included in the unit price bid for Item 603, 6" Conduit Type "F".

CONSTRUCTION OF MAINLINE STORM SEWER

In order to provide a drainage outlet for the adjoining, northerly project (FRA-270-22.99), the Contractor is required to complete the trunk sewer on this project within one year of the award of this contract. *See note on Sh. No. 11 of Part 2.*

DRIVE LOCATIONS

The locations of residence and field drives may be adjusted outside the limited access by the Engineer during construction, at no additional cost.

MAIL BOX APPROACHES

These shall be placed as directed by the Engineer, nine (9) approaches have been estimated for the following totals:

404	304
I-270-5(18)117 Rural - 5 C.Y.	I-270-5(18)117 Rural - 11 C.Y.
U-202(5) - 2 C.Y.	U-202(5) - 4 C.Y.

Item 404, Asphalt Concrete (85-100), two one inch courses and Item 304, Aggregate Base, 5 inches thick. The approaches shall be constructed as per Standard Drawing BP-6.

ITEM 203 PROOF ROLLING

An estimated quantity for this item has been provided in the General Summary for use in proof rolling of subgrade for the mainline and ramp pavements, and for paved shoulders, in accordance with Supplemental Specifications 801.

SCARIFICATION OF EXISTING FLEXIBLE PAVEMENT

Within the limits of construction where the existing flexible pavement will have less than 6 inches of fill placed upon it, the pavement shall be thoroughly scarified for its full depth, mixed with sufficient soil and properly recompacted to insure the elimination of any planes of separation between it and the embankment placed thereon. Payment for scarification as described above shall be included in the unit price bid for Item 203, Roadway Excavation.

PAVEMENT REMOVAL AND DISPOSAL

Removal and disposal of existing non-rigid pavement and adjacent curbs shall be measured and paid for as Item 203, Roadway Excavation, unless otherwise indicated on the plans.

Removal and disposal of existing rigid pavement (concrete brick) shall be measured and paid for as Item 202, Removal and Disposal of Existing Pavement.

2	OHIO		

22

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

GENERAL NOTES

PAVEMENT REMOVAL AND DISPOSAL (Continued)

Existing rigid type pavements shall be removed under Item 202 when they are located less than 3 feet below the proposed pavement subgrade in proposed pavement areas or less than 3 feet below the proposed finished surface in areas outside the proposed pavement. When existing rigid type pavements lie below the above limits, they shall not be removed. In lieu thereof, they shall be broken up in place into portions not to exceed one square foot in area prior to placement of proposed embankment. Any steel protruding from the removed pavement shall be cut off so that it will not project more than one inch from any side. Payment for this operation shall be included in the unit price bid for Roadway Excavation. Item 203.

RE-SEEDING OF DAMAGED AREAS

The following estimated quantities have been included in the General Summary for use in the re-seeding of areas which have previously been seeded by FRA-62-19.06, and which may be damaged during construction of this project. These quantities shall be used as directed by the Engineer.

U-202(5)

Item 659 Seeding and Mulching as per plan	10,000 S.Y.
Item 659 Commercial Fertilizer	1 Ton

HOT LONGITUDINAL JOINT *U.S.R. 62.*

Asphalt concrete *in the 404* course shall be laid using bituminous pavers operating in parallel lanes, one just ahead of the *other* , so that hot logitudinal joints will be secured *at indicated locations* . At no time shall one paver be farther ahead of the adjacent paver than the distance the normal load being hauled will cover. The loads of mixture as they arrive shall be alternated between the pavers. Rollers performing the initial rolling operation in one lane shall in no *case be allowed closer than 12 inches to the longitudinal joint until adjacent lane is laid.*
If the Contractor so elects, he may, in lieu of the above, place the 404 course by full width construction.
(See typical Sections)

310 UNDER APPROACH SLABS

The area between the bottom surface of the subgrade and the bottom of the approach slab shall be backfilled with 6" of Item 310 Subbase.

CATCH BASINS RECONSTRUCTED TO GRADE

Under Item 604 Catch Basins Reconstructed to Grade, new No. 5 catch basin grates and upper boxes shall replace the existing basins from the given construction elevation to the proposed grate elevation.

REINFORCED CONCRETE CATCH BASINS

Catch basin *located at Station 1205+50* shall be built of Class "C" concrete reinforced by placing 1/2 inch diameter base 12 inch center to center both vertically and horizontally with a 2 inch clearance from the inside face of the wall. Payment for furnishing and placing the reinforcing steel shall be included in the unit price bid for Item 604, *Standard 2:3 Catch Basin, as per plan.*

EARTHWORK ALONG CURVED ALIGNMENT

The centroids of areas on cross section sheets are indicated by a vertical line which establishes one half of the area of the cut or fill on the section. The length of volume along the curve is computed based on the average or adjacent centroids. Individual volumes along curved alignment are computed by an electronic computer, and then totaled. The total volume of each section is shown on the cross section sheet.

DUST CONTROL

An estimated amount of 616 (Calcium Chloride) and 616 (Water) has been provided for dust control, as directed by the Engineer as shown below:

	I-270-5(18)117 Urban	Rural	U-202(5)
616 Calcium Chloride	5 Tons	15 Tons	15 Tons
616 Water	50 M.Gals.	150 M.Gals.	150 M.Gals.

MAINTENANCE OF TRAFFIC NOTES

AGLER ROAD (See Sheet No. *234 - 236*

Provide a temporary road as shown on the plans using 26' roadway with 20' pavement from Station 16+00 to Sta. 35+00 (1,900 L.F.). Two-way traffic shall be maintained at all times on the existing pavement, the proposed pavement or the temporary road except for a period of thirty (30) calendar days while the connections are being made, during which time two-way traffic shall be maintained on the existing pavement, proposed pavement, and/or the berm and ditch areas using Item 410 and 616 materials.

Quantities are as follows:

		Rural
Item 410 Traffic Compacted Surface Type A or B at 50 C.Y. Per Station (19.00)(50)	=	950 C.Y.
Quantity of 410 For Completion of Connections	=	150 C.Y.
Item 616 Calcium Chloride At 1 Ton Per 50 C.Y.	=	19 Ton
Item 615 Temporary Roads	=	Lump

MIFFLIN BLVD.

Two-way traffic shall be maintained at all times between Agler Road and Genessee Avenue.

The connection between Mifflin Blvd. and Agler Road or between Mifflin Blvd. and Gennessee Avenue shall remain open at all times during construction. Earl Avenue, Emmons Avenue, Missouri Avenue, and Georgia Avenue intersections with Mifflin Blvd. may be closed during the construction of relocated Mifflin Boulevard.

STYGLER ROAD

Stygler Road may be closed during the construction of relocated Stygler Road. After Ridenour Road is closed, two-way traffic shall be maintained continuously on relocated Stygler Road.

RIDENOUR ROAD

Two-way traffic shall be maintained until such time that relocated Stygler Road is completed and opened to traffic.

STELZER ROAD

All existing traffic facilities shall be maintained on the existing pavement of Stelzer Road during the construction of this project.

U.S.R. 62

The temporary road approaches, which connect the existing Big Walnut Creek bridge with existing Route 62 at the westerly bridge approach, shall not be removed until traffic is routed onto the new facility. The temporary road shall be removed as a part of this project, as shown on sheet 183. In order to leave this temporary road in operation, Item 612 Concrete Median from Station 1214+25 to Station 1215+56.79, and the paved shoulder and curb on the right from Station 1214+25 to Station 1215+00 were omitted from the adjacent project, and shall be constructed as a part of this project.

The above items are estimated as follows and are carried in the pavement calculations.

Item	Description	Total U-202(5)
612	Conc. Median	11 C.Y.
609	Conc. Curb, Type 6	75 L.F.
301	Bit. Aggr. Base	6 C.Y.
304	Aggr. Base	11 C.Y.
310	Subbase	8 C.Y.
409	Seal Coat Cover Aggr. No. 8	1 C.Y.
409	Seal Coat Bit. Material As Per Plan, (See Note in Proposal)	20 Gal.

SIDE ROADS

The following roads will be barricaded with Type 4 Guard Rail: Codet Road on the easterly side of the project, Armuth Avenue on both sides of the project, Aberdeen Avenue and Minnesota Avenue on the westerly side of the project, and Mifflin Boulevard at the south end of the project. Codet Road on the westerly side of the project and Cherry Road are cul-de-sac according to the plans. Each of these roads may be closed as determined by the contractors construction schedule.

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

GENERAL NOTES

GEORGIA AVENUE

The Contractor shall notify the County three (3) weeks prior to this surfacing operation so that the County may reshape and regrade the existing aggregate base. The 404 surface course is to consist of two one (1) inch courses for a total of two (2) inches with a penetration of 85-100. Prior to surfacing, the existing surface shall be tacked with Item 407 Tack Coat.

The resurfacing shall be from the end of the pavement of Relocated Mifflin Blvd. to Stelzer Road for a computed length of 1330 feet and a width of 16 feet.

Quantities are as follows (100% State):

Item 404 Asphaltic Concrete (85-100) @2"	=	132 C.Y.
Item 407 Tack Coat, 702.04 MS-2 or RS-1; Or 702.02 RC-70 or RC-250, Applied At A Rate of 0.1 Gal./S.Y.	=	237 Gal.

Two-way traffic shall be maintained at all times. However, one-way traffic shall be permitted for minimum periods of time consistent with the requirements of the specifications for protection of completed asphalt courses. The intersection of Mifflin Blvd. and Georgia Avenue may be closed as stated under the Mifflin Blvd. Maintenance of Traffic Note.

WATERWORKS GENERAL NOTES

SCOPE OF WORK

The water works called for in these plans and specifications includes the furnishing and installing of cement lined ductile iron pipe, valves, fittings, and appurtenances of their respective locations in Stygler Road and completing miscellaneous work at other locations, with all appurtenances, complete in all details, tested and ready for operation. The Contractor shall do all work and furnish all the labor and materials necessary for the proper and final completion of this contract in the manner and under the conditions herein specified and provided, and in accordance with the contract drawings.

DEFINITIONS

As used in these plans and specifications, the following words and terms shall have the meanings hereinafter ascribed to them:

"CITY" means City of Gahanna, Ohio, acting through its duly authorized officials and employees.

SPECIFICATIONS

Water Lines, where indicated, are to be constructed in accordance with the Construction and Material Specifications of the City of Columbus, Ohio dated January 1, 1967 and Supplemental Specification No. 818. Copies of these Specifications are on file at the Office of Contract Sales for the State Highway Department, 25 South Front Street, Columbus, Ohio and the Office of the Director of Public Service, 90 West Broad Street, Columbus, Ohio. The item of work: "Fire Hydrants Removed and Reset" shall be done in accordance with the State of Ohio Department of Highways Supplemental Specification Item 814 - Water Mains and Service Branches dated January 1, 1969.

COORDINATION OF WORK

The City of Gahanna will inspect the work. All requests for approvals of waterworks items, fabrication details, construction, and materials shall be submitted to the project engineer. Fabrication details, construction, and materials shall meet the approval of the designated representative of the State of Ohio and the City of Gahanna. The Contractor shall notify the City of Gahanna forty-eight (48) hours in advance of the planned time for the taking of existing facilities out of service. The City of Gahanna will operate all valves on existing water lines.

The following addresses of organizations that will be involved in or effected by the work:

City of Columbus, Water Department
90 West Broad Street, Columbus, Ohio 43215

City of Gahanna, Water Department
66 Mill Street, Gahanna, Ohio 43230

DISPOSITION OF UNDERGROUND UTILITIES

The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio does not guarantee their accuracy or completeness.

The Contractor shall uncover the water lines at the locations listed below and determine the exact location, size, type and condition of the existing pipe. The exact location, size, type and condition of the existing pipe shall be recorded in report form and forwarded to the Engineer before any water line work has been started. The report will contain the data on the existing water lines that must be known to perform the work required by the drawings and the specifications of these plans.

Approximate locations:

Street Name	Recorded Size	Base Line Or Centerline Station	Offset
Stygler Road	16"	U.S.R. 62 1185+30	130' LT
Stygler Road	16"	U.S.R. 62 1186+07	130' RT

SEQUENCE OF CONSTRUCTION

General:
Construction of the proposed water main shall be scheduled such that interuption of service to the consumer is held to a minimum. In the event that a consumer service interuption of more than one hour is planned and/or occurs, the Contractor shall provide temporary service to the consumers on Stygler Road.

1) Provide temporary service to service connection numbers:

2) Construct proposed 16" water line within the limits of the temporary plugs.

3) Test and chlorinate proposed water line.

4) Close 16" valves at the intersection of Stygler Road and Agler Road and Existing U.S.R. 62.

5) Complete construction of the proposed 16" Water Line.

SEQUENCE OF CONSTRUCTION (Continued)

6) Open 16" valves required to place the 16" water line in service.

7) Remove temporary service facilities.

8) Relocate existing fire hydrant.

REMOVED ITEMS

All materials consisting of pipe and fittings, valves, fire hydrants, valve boxes, water meters and water meter boxes which are indicated for removal by the Contractor shall become the property of the Contractor and shall be removed and disposed of by him.

TESTING & CHLORINATING

Testing and chlorination shall be affected by authorized representatives of the City of Columbus and shall be done in accordance with City of Columbus Construction and Material Specification Items 801.10 and 801.11

801.10 Hydrostatic Tests

A hydrostatic test as required in Section 13 of the Standard AWWA Specification C600-54T shall be applied to the whole or individual valved off sections of the mains either before or after the trench is backfilled. The pressure during the test shall be 150 p.s.i. maximum in any section being tested. The duration of each pressure test shall be at least one hour. The City will furnish gauges for the test, but the Contractor shall furnish all materials, make all taps required and furnish a pump, piping, other equipment and all necessary assistance for conducting the tests.

If there are indications of leaks under this pressure test, the Contractor shall locate them at his cost and expense. Any cracked or defective pipes, fittings, valves, joints, or other appurtenances discovered in consequence of this pressure test shall be removed and replaced by the Contractor with sound material, at his cost and expense and the test shall be repeated until satisfactory to the Engineer.

A test shall be made to determine the quantity of water lost by leakage under the specified test pressure as provided in Section 13 of the Standard AWWA Specifications above. No pipe installation will be accepted until or unless this leakage (evaluated on a pressure basis of 150 p.s.i.) is less than 7.94 U.S. Gallons per hour per 100 joints of pipe of 12-inch nominal diameter and correspondingly varied for other sizes of pipe as provided in the AWWA Specifications.

Before applying the specified pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made by the Contractor at points of highest elevation, or as required. Taps shall be of the sizes shown on the plans or as directed by the Engineer.

Should any test of combined sections of pipe laid disclose leakage greater than that specified, or if individual sections show leakage greater than the specified limit, the Contractor shall at his own expense locate and repair the leaks until the leakage is within the specified allowance.

Leakage is defined as the quantity of water to be supplied into the newly laid pipe or any valved section of it, necessary to maintain the specified leakage test pressure after the pipe has been filled with water and the air expelled.

GENERAL NOTES

~~TESTING & CHLORINATING (Continued)~~

~~801.11 Chlorination of Completed Pipe Line~~

~~The completed pipe line will be chlorinated by the City of Columbus. The City will furnish the chlorine, the equipment necessary to introduce the chlorine into the chlorination tap and one man. All other labor, material and equipment including 3/4 inch chlorination tap and blow-off taps required will be furnished by the Contractor. The time and section of line to be chlorinated shall be approved by the Engineer.~~

~~Payment for these portions of the work to be done by the Contractor shall be included in the unit price bid per foot of new 16" water main which price shall include the furnishing of all labor, tools and material required to test and chlorinate the pipe as herein specified.~~

RECONNECTING EXISTING SERVICE CONNECTION

Use City of Columbus Construction and Material Spec's. { Item 805 - "Corporation Cock / Item 605 - "Copper Water Service

The Contractor shall remove the existing service connection from the existing water main which is to be abandoned, a tap made on the new water main and a corporation stop installed and the existing service line attached.

~~Payment will be made at the contract unit price bid per linear foot of Item 814, Service Branches Removed and Reconnected, which shall constitute full compensation for performing the work consisting of excavation, tapping and installing a corporation stop on the new main and making the existing service line connection, backfilling and ground surface and pavement restoration including the furnishing of all labor, material, tools and equipment necessary for completing the requirements of this item.~~

PLUGGING EXISTING SERVICE CONNECTIONS AT THE MAIN

Use City of Columbus Construction and Material Supplemental Specification Item 818-Water Service Tap Abandoned

~~The Contractor shall disconnect the existing house connection at the main and insert a plug of the type and in a manner to be approved by the Engineer.~~

~~Payment will be made at the contract unit price bid for each Item 814 Plugging Existing Service Connections At The Main, which shall constitute full compensation for performing the work consisting of excavation, removal of the existing service line, insertion of the plug, backfilling and ground surface restoration including the furnishing of all labor, materials, tools and equipment necessary for completing the requirements of this item.~~

FIRE HYDRANT REMOVED AND RESET

This item of work performed under State of Ohio Supplemental Specification Item 814-New Water Mains and Serice Branches shall be Tested, Chlorinated and Backfilled in accordance with the requirements of City of Columbus Contruction and Material Specifications Item 801-Ductile Iron Water Pipe.

CUTTING IN 16"x6" DUCTILE IRON TEE

This work shall consist of furnishing and installing a 16"x6" Ductile Iron Anchoring Tee in the existing 16" Transite Water Main pipe for the 6" Hydrant Branch (Fire Hydrant Reset). This work shall be accomplished in accordance with the best practises followed in the Waterworks Industry.

Payment will be made at the contract unit price bid for Each" Item 801-Cutting in 16"x6" Anchoring Tee" which price and payment shall constitute full compensation for performing the excavation, cutting and removing a section of the existing 16" Transite Pipe, furnishing and installing the 16"x6" D.I. Anchoring Tee and Adapters (Transite Pipe to Ductile Iron Tee M.J. Fitting), backfilling, testing, chlorinating and surface restoration and for the furnishing of all the labor, materials, small tools and equipment required to complete this item of work.

REMOVING AND RESETTING VALVE BOX (STYGLER ROAD)

The work consisting of careful removal of the valve box on the existing 6" Fire Hydrant Branch by the Contractor and reset at the new location shall be included in the payment bid for Item 814-Fire Hydrant Removed and Reset as per plan.

"TEMPORARY WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL

The following estimated quantities are to be used as directed by the Engineer for temporary control measures. For details see note in the proposal.

Temporary Seeding & Mulching	340,000	Sq.Yd.
Commercial Fertilizer (12-12-12)	15	Ton
Water	160	M-Gal
Slope Drains	5,400	Lin.Ft.
Temporary Benches, Dikes, Dams and Sediment Basins	900	Cu.Yd.

SEEDING AND PLACING (ONLY) JUTE MATTING, AS PER PLAN

The jute matting for this item will be furnished by the State. The Contractor shall pick up the required amount of jute matting from the State Highway Garage at 5500 E. 5th Ave. in Columbus, Ohio.

CALCULATIONS

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

25

CALC: SAS 8-69
CHK: RFH 9-69

FRANKLIN COUNTY
FRA 270-25.38 N
FRA 62-20.83

Interstate Route 270 - Mainline

ITEM 301 - BITUMINOUS AGGREGATE BASE - URBAN

Sta. 1452+00 to 1466+06.59 (Inside Shoulders & Under 3 Lanes) L = 1406.59 L.F.
End Area = 2(39 x 0.333 + 4 x 0.583)= 30.67 S.F.
Volume = 1406.59 x 30.67 = 43,135.33 C.F.
Sta. 1452+00 to 1453+15 (70:1 Taper @ Begin. & Out Shoulder) L = 115 L.F.
Avg. End Area = (12-115÷(2 x 70))x 0.333+ 2 x 10 x 0.583 = 15.39 S.F.
Volume = 115 x 15.39 = 1,769.85 C.F.
Sta. 1453+15 to 1466+06.59 (Out. Shoulders & Extra Lane on Left) L = 1291.59 L.F.
End Area = 12x0.333+2 x 10 x 0.583 = 15.67 S.F.
Volume = 1291.59 x 15.67 = 20,239.21 C.F.

Total Item - 301 Urban = 65,144.39 C.F.

Volume = 65,144.39 ÷ 27 = 2,412.76 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - URBAN = 2,412.76 C.Y.

ITEM 451 - 8" CONTINUOUS REIN. CONCRETE PAVEMENT - URBAN

Sta. 1452+00 to 1466+06.59 (6 Lanes)
Area = 1406.59 x 72 = 101,274.48 S.F.
Sta. 1452+00 to 1453+15 Lt. (70:1 Taper)
Area = 115(12-(115÷(2x70)) = 1,285.54 S.F.
Sta. 1453+15 to 1466+06.59 Lt. (Extra Lane on Left)
Area = 1291.59 x 12 = 15,499.08 S.F.

Total Item 451 - Urban = 118,059.10 S.F.

Area = 118,059.10 ÷ 9 = 13,117.68 S.Y.

ITEM 451 - 8" CONTINUOUS REIN. CONCRETE PAVEMENT - URBAN = 13,117.68 S.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

Sta. 1466+06.59 to 1524+00 (Inside Shoulders & Beneath Pavement)
End Area = 2(39x0.333+4x0.583)= 30.67 S.F.
Volume = 5793.41 x 30.67 = 177,683.88 C.F.
Sta. 1466+06.59 to 1471+56 (Outside Shoulders & Extra Lane on Left)
End Area = 12x0.333+2x10x0.583 = 15.67 S.F.
Volume = 549.41 x 15.67 = 8,609.25 C.F.
Sta. 1471+56 to 1485+00 (Ramp D Taper & Outside Shoulders)
Avg. End Area = (12x0.333+(2x10x0.583)+ (28x0.333)÷2)= 20.33 S.F.
Volume = 1344 x 20.33 = 27,323.52 C.F.
Sta. 1485+00 to 1487+75 (Outside Shoulders)
End Area = 2 x 10 x 0.583 = 11.66 S.F.
Volume = 275 x 11.66 = 3,206.50 C.F.
Area (By Planimeter) = 1112 S.F. (Left At Ramp D Nose)
Thickness = 0.5 Ft.
Volume = 1112 x 0.5 = 556.00 C.F.
Sta. 1487+75 to 1488+75 (Ramp G Taper & Outside Shoulders)
Avg. End Area = 12÷2x0.333+(20+18)÷2x 0.583 = 13.08 S.F.
Volume = 100 x 13.08 = 1,308.00 C.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Sta. 1488+75 to 1491+00 (Ramp G Decel. & Outside Shoulders)
End Area = 12 x 0.333 +(10+)x 0.583 = 14.49 S.F.
Volume = 225 x 14.49 = 3,260.25 C.F.
Sta. 1491+00 to 1495+92 Lt. (Outside Shld.)
Corr. L = 402 x 4984.75÷5055.51÷90.00= 486.37 L.F.
End Area - 10 x 0.583 = 5.83 S.F.
Volume = 486.37 x 5.83 = 2,835.54 C.F.
Sta. 1491+00 to 1495+92, Rt. (Ramp G Decel. & Outside Shoulders)
Area (By Plan.) = 4200 S.F.
Thickness = 0.333 Ft.
Volume = 4200 x 0.333 = 1,400.00 C.F.
End Area = 12 x 0.333+8x0.583 = 8.66 S.F.
Volume = 498.5 x 8.66 = 4,317.01 C.F.
Sta. 1495+92 to 1507+42 (Outside Shlds. to Ramp H Nose)
End Area =2x10 x 0.583 = 11.66 S.F.
Volume = 1150 x 11.66 = 13,409.00 C.F.
Area (By Plan) = 320 S.F. (Rt.@ Ramp H Nose)
Thickness = 0.5 Ft.
Volume = 320 x 0.5 = 160.00 C.F.
Sta. 1507+42 to 1509+42.86 Lt. (Outside Shld.)
Corr. L = 200.86 x 4984.75 ÷ 5055.51 = 198.05 L.F.
End Area = 10 x 0.583 = 5.83 S.F.
Volume = 198.04 x 5.83 = 1,154.63 C.F.
Sta. 1507+42 to 1509+42.86, Rt. (Ramp H Accel. & Out. Shld.)
Corr. L. = 203.18 L.F.
End Area = 8 x 0.583 + 12 x 0.333 = 8.66 S.F.
Volume = 203.18 x 8.66 = 1,759.54 C.F.
Area (By Plan.) = 3360 S.F.
Thickness = 0.333 Ft.
Volume = 3360 x 0.333 = 1,120.00 C.F.
Sta. 1509+42.86 to 1510+36.57 (Ramp H Accel. & Out. Shoulders)
Corr. L = 93.71x5073.67÷5055.51= 94.05 L.F.
End Area = 12x0.333+(10+8)x 0.583 = 14.49 S.F.
Volume = 94.05 x 14.49 = 1,362.78 C.F.
Sta. 1510+36.57 to 1519+59.7 Lt. (Outside Shld.)
Corr. L = 923.13 x 4984.75÷5055.51 = 910.21 L.F.
Volume = 910.21 x 10 x 0.583 = 5,306.52 C.F.
Sta. 1510+36.57 to 1513+59.7 Rt. (Ramp F Decel. & Out. Shld.)
End Area = 12 x 0.333+8 x 0.583 = 8.66 S.F.
Volume = 328.66 x 8.66 = 2,846.20 C.F.
Area (By Plan.) = 4272 S.F.
Thickness = .0.333 Ft.
Volume = 4272 x 0.333 = 1,424.00 C.F.
Sta. 1513+59.7 to 1519+59.7, Rt. (Taper After Ramp F)
Corr. L = 600 x 5126.01÷5055.51 = 608.36 L.F. (Beneath Pav't.)
Avg. End Area = 12÷2 x 0.333 = 2.0 S.F.
Volume = 608.36 x 2.0 = 1,216.72 C.F.
Corr. L = 600x5133.01÷5055.51=609.20 L.F. (Out. Shld.)
End Area = 8 x 0.583 = 4.66 S.F.
Volume = 609.20 x 4.66 = 2,838.87 C.F.
Area (By Plan.) = 101.5 S.F. (Trans. 8'to 10' Shld)
Thickness = 0.833 Ft.
Volume = 101.5 x 0.833 = 84.55 C.F.
Sta. 1519+59.7 to 1524+00 (Outside Shlds.)
Volume = 440.3 x 2 x 10 x 0.583 = 5,133.90 C.F.

End Taper Details
Sta. 1471+56 to 1472+52 Lt.(Add Pav't. Area T=4")
Volume = 2 x 96 x 0.333 ÷ 2 = 32.00 C.F.
Subtract Pavement Vol.=2(96)x0.500 ÷2 = - 48.00 C.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Sta. 1487+75 to 1487+91.67 Rt.
Add Pav't. A-T=4" = 16.67x2x0.333÷2 = 5.50 C.F.
Subtract Pav't Vol.=16.67 x 0.500 = - 8.33 C.F.
Sta. 1518+59.7 to 1519+59.7 Rt.
Add Pav't. Area (T=4")=100 x 2 x 0.333÷ 2 = 33.33 C.F.
Subtract Pav't. Vol.= 100 x 0.500 = - 50.00 C.F.

Volume Item 301 - Rural = 268,381.21 C.F.

Volume = 268,381.21 ÷ 27 = 9,940.04 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE -RURAL = 9,940.04 C.Y.

ITEM 451 - 8" CONTINUOUS REINFORCED CONCRETE PAVEMENT - RURAL

Sta. 1466+06.59 to 1524+00 (6 Lanes)
Area = 5793.41 x 72 = 417,125.52 S.F.
Sta. 1466+06.59 to 1471+56, Lt. (Extra 12' Lane)
L= 549.41 L.F.
Area = 549.41 x 12 = 6,592.92 S.F.
Sta. 1471+56 to 1485+00 Lt. (Ramp D Taper)
L = 1344 L.F.
Avg. W. = (12+40)÷ 2 = 26.0 Ft.
Area = 1344 x 26.0 = 34,944.00 S.F.
Sta. 1487+75 to 1491+00 Rt. (Ramp G Taper)
Area = 100 x 12÷2÷225 x 12 = 3,300.00 S.F.
Sta. 1491+00 to 1495+92 Rt. (Ramp G Decel.)
Corr. L=498.5 x 11,465.15÷11,459.15 = 498.76 L.F.
Area = 498.76 x 12 = 5,985.13 S.F.
Area (By Plan.) = 4,200.00 S.F.
Sta. 1507+42 to 1509+42.86 Rt. (Ramp H Accel.)
Area (By Plan.) = 3,360.00 S.F.
Sta. 1509+42.86 to 1510+36.57 Rt. (Ramp H Accel.)
Corr. L= 93.71x 5127.51÷5055.51 = 95.04 L.F.
Area = 95.04 x 12 = 1,140.48 S.F.
Sta. 1510+36.57 to 1513+59.7 Rt. (Ramp F Decel.)
Corr. L=328.66 x 1915.86÷1909.86 = 329.69 L.F.
Area = 329.69 x 12 = 3,956.28 S.F.
Area (By Plan.) = 4,272.00 S.F.
Sta. 1513+59.7 to 1519+59.7 (Taper After Ramp F)
Corr. L = 600 x 5124.51÷5055.51 = 608.19 L.F.
Avg. W. = 12 ÷ 2 = 6 Ft.
Area = 608.19 x 6 = 3,649.14 S.F.
Add End Taper Details
(See Item 301)
A = 96.0 ÷ 16.67 ÷100.0 = 212.67 S.F.

Area Item 451 - Rural = 488,738.14 S.F.

Area = 488,738.14 ÷ 9 = 54,304.24 S.Y.

ITEM 451 - 8" CONTINUOUS REINFORCED CONCRETE PAVEMENT - RURAL = 54,304.24 S.Y.

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC: SAS 8-69
CHK: RCH 9-69

CALCULATIONS

RAMP A

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. A-1493+13.61 to A-1494+13.61 (Ramp D Nose)
Corr. L = 100(962.43÷954.93) = 100.78 L.F.
Avg. W = (14.25+16.25)÷ 2 = 15.25 Ft.
Area = 100.78 x 15.25 = 1,536.90 S.F.
Sta. A-1494+13.61 to A-1495+13.61 (Ramp D Nose)
Corr. L = 100(962.43÷954.93) = 100.78 L.F.
Avg. W = (14.5+16.5)÷ 2 = 15.5 Ft.
Area = 100.78 x 15.5 = 1,562.09 S.F.
Sta. A-1495+13.61 to A-1505+05.51 (PCC)
Corr. L = 991.90(962.93÷954.93)= 1000.21 L.F.
Area - 1000.21 x 16.5 = 16,503.46 S.F.
Sta. A-1505+05.51 to A-1507+54 (Nose @ SB-62)
Corr. L = 248.49(3914.53÷3906.53)= 249.00 L.F.
Area = 249 x 16.5 = 4,108.50 S.F.

Total Item 301 - Rural T=8" = 23,710.95 S.F.

Volume = 23,710.95 x 0.667 ÷ 27 = 585.75 C.Y.

T = 8" = 585.75 C.Y.

Add Volume of 4" Step
Volume = [100+100.78(2)+1000.21(2)+249(2)](16)÷(144x27) = 11.52 C.Y.

T = 3"

Sta. A-1473+13.61 to A-1495+13.61, Lt. Shld. (Ramp D Nose)
Corr. L = 200(953.43÷954.93) = 199.68 L.F.
Area = 199.68 x 3 = 599.04 S.F.
Sta. A-1494+13.61 to A-1495+13.61, Rt. Shld. (Ramp D Nose)
Corr. L = 100(971.18÷954.93) = 101.70 L.F.
Avg. W = 2.5 Ft.
Area = 101.70 x 2.5 = 254.25 S.F.
Sta. A-1495+13.61 to A-1505+05.51 (Both Shlds.) (PCC)
Corr. L = 991.90(962.93÷954.93)= 1000.21 L.F.
Area - 1000.21 x 6 = 6,001.26 S.F.
Sta. A-1505+05.51 to A-1507+54 (Nose on SB-62)
Corr. L = 248.49(3914.53÷3906.53) = 249.00 L.F.
Area = 249.00 x 6 = 1,494.00 S.F.
Sta. A-1506+54 to A-1507+54 Lt. (3' to 8' Shld. Taper)
Corr. L = 100(3902.28÷3906.53) = 99.89 L.F.
Area = 99.89 x 5 ÷ 2 = 249.72 S.F.

Total Item 301 - Rural T=3" = 8,598.27 S.F.

Volume = 8598.27 x 0.333 ÷ 27 = 106.06 C.Y.

T = 3" = 106.06 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 703.33 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's See Item 301 (3"))
Sta. A-1493+13.61 to A-1495+13.61, Lt. (Ramp D Nose)
Corr. L = 199.68 L.F.
Area = 199.68 x 2.75 = 549.12 S.F.
Sta. A-1494+13.61 to A-1495+13.61, Rt. (Ramp D Nose)
Corr. L - 101.70 L.F.
Area - 101.70 x 2.25 = 228.83 S.F.

RAMP A (Continued)

ITEM 304 - AGGREGATE BASE - RURAL (Continued)

Sta. A-1495+13.61 to A-1505+05.51 (Both Shlds.) (PCC)
Corr. L - 991.90 L.F.
Area = 991.90 x 5.5 = 5,455.45 S.F.
Sta. A-1505+05.51 to A-1507+54 (Nose on SB-62)
Corr. L = 249. L.F.
Area = 249 x 5.5 = 1,369.50 S.F.
Sta. A-1506+54 to A-1507+54 Lt. (3' to 8' Shld. Taper)
Corr. L = 99.89 L.F.
Area = 99.89 x 5 ÷ 2 = 249.73 S.F.

Total Item 304 - Rural T = 6" = 7,842.63 S.F.

Volume = 7842.63 x 0.5 ÷ 27 = 145.23 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 5.76 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 139.47 C.Y.

ITEM 310 SUBBASE - RURAL

Area 310 Beneath Pavement = Area 301 (8")
Area = 23,710.95 S.F.
Thickness - 4" = .333'
Volume = 23,710.95 x 0.333 ÷ 27 = 292.72 C.Y.
Area 310 Beneath Shoulders = Area 304
Area = 7842.63 S.F.
Avg. Thickness = (4+6+6+6)÷4 = 5.5"= .458'
Volume = 7842.63 x 0.458 ÷ 27 = 133.03 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 5.76 C.Y.

Total Volume = 419.99 C.Y.

ITEM 310 SUBBASE - RURAL = 419.99 C.Y.

ITEM 402 ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 301 (8") + Area 304 - Area 301 (3")

Area = 23,710.95 + 7842.63 - 8598.27 = 22,955.31 S.F.
T = 1-3/4"
Volume = 22,955.31 x (1.75÷12)÷ 27 = 123.99 C.Y.

ITEM 402 ASPHALT CONCRETE, T = 1-3/4" - RURAL = 123.99 C.Y.

ITEM 404 ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 - 22,955.31 S.F.

T = 1-1/4"
Volume = 22,955.31 x (1.25÷12) ÷ 27 = 88.56 C.Y.

ITEM 404 ASPHALT CONCRETE, T = 1-1/4" - RURAL = 88.56 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area 301 (3") = 8598.27 S.F.
Cover Aggregate
Volume = (8598.27÷9) x 0.008 = 7.64 C.Y.
Bituminous Material
Volume = (8598.27÷9) x 0.30 = 286.61 GAL.

ITEM 409 SEAL COAT - RURAL - COVER AGGREGATE = 7.64 C.Y.

ITEM 409 SEAL COAT - RURAL - BITUMINOUS MATERIAL* = 286.61 GAL.

RAMP C

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"

Sta. C-1516+16.42 to C-1517+16.42 (Pav't. Taper)
Corr. L = 100(1439.89÷1432.39) = 100.52 L.F.
Avg. W = (14.25+16.25)÷ 2 = 15.25 Ft.
Area = 100.52 x 15.25 = 1,532.93 S.F.
Sta. C-1517+16.42 to C-1518+16.42 (Pav't. Taper)
Corr. L = 100(1439.89÷1432.39) = 100.52 L.F.
Avg. W = (14.5+16.5)÷ 2 = 15.5 Ft.
Area = 100.52 x 15.5 = 1,558.06 S.F.
Sta. C-1518+16.42 to C-1518+66 (PCC)
Corr. L = 50(1440.39÷1432.39) = 50.28 L.F.
Area = 50.28 x 16.5 = 829.60 S.F.
Sta. C-1518+66.42 to C-1523+23.34 (PCC)
Corr. L - 456.92(962.93÷954.93) = 460.75 L.F.
Area = 460.75 x 16.5 = 7,602.38 S.F.
Sta. C-1523+23.34 to C-1524+99.20 (PCC)
Corr. L = 175.86(3827.71÷3819.71) = 176.23 L.F.
Area = 176.23 x 16.5 = 2,907.80 S.F.
Sta. C-1524+99.20 to C-1525+50
Corr. L = 50.80(1440.39÷1432.39) = 51.08 L.F.
Area = 51.08 x 16.5 = 842.82 S.F.

Total Item 301 - Rural T = 8" = 15,273.59 S.F.

Volume = 15,273.59 x 0.667 ÷ 27 T = 8" = 377.12 C.Y.

Add Volume of 4" Step
Volume = [100+(100.52+50.28+460.75+176.23+51.08)(2)](16)÷(144 x 27) = 7.32 C.Y.

T = 3"

Sta. C-1516+16.42 to C-1518+16.42, Lt. Shld. (Taper 3' to 8')
Corr. L = 200(1429.64÷1432.39) = 199.62 L.F.
Area = 199.62 x 5.5 = 1,097.91 S.F.
Sta. C-1517+16.42 to C-1518+16.42, Rt. Shld. (Taper 3' to 8')
Corr. L - 100(1448.64÷1432.39) = 101.13 L.F.
Avg. W = 2.5 Ft.
Area = 101.13 x 2.5 = 252.83 S.F.
Sta. C-1518+16.42 to C-1525+50, Both Sides (For Corr. L's, see Item 301 (8"))
Corr. L = 50.28+460.75+176.23+51.08 = 738.34 L.F.
Area = 738.34 x 6.0 = 4,430.04 S.F.

Total Item 301 - Rural T = 3" = 5,780.78 S.F.

Volume = 5780.78 x 0.25 ÷ 27 T = 3" = 53.53 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 437.97 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's see Item 301 (3"))

Sta. C-1516+16.42 to C-1518+16.42 (Shld. Taper)
Corr. L = 199.62 L.F.
Area = 199.62 x 5.25 = 1,048.00 S.F.
Sta. C-1517+16.42 to C-1518+16.42, Rt. (3' to 2' Taper)
Corr. L = 101.13 L.F.
Avg. W = 2.25
Area = 101.13 x 2.25 = 227.54 S.F.

* as per plan

CALCULATIONS

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA 270-25.09 N
FRA 62-20.93

RAMP C (Continued)

ITEM 304 - AGGREGATE BASE - RURAL (Continued)

Sta. C-1518+16.42 to C-1525+50 (PCC)
Corr. L = 738.34 L.F.
Area = 738.34 x 5.5 = 4,060.87 S.F.

Total Item 304 - Rural T = 6" = 5,336.41 S.F.

Volume = 5336.41 x 0.5 ÷ 27 = 98.82 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 3.66 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 95.16 C.Y.

ITEM 310 SUBBASE - RURAL

Area 310 Beneath Pavement = Area 301 (8")
Area = 15,273.59 S.F.
Thickness = 4" = .333
Volume = 15,273.59 x 0.33 ÷ 27 = 188.37 C.Y.
Area 310 Beneath Shoulders = Area 304
Area = 5336.41 S.F.
Avg. T = 5.5" = 0.458 Ft.
Volume = 5336.41 x 0.458 ÷ 27 = 90.52 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 3.66 C.Y.

ITEM 310 SUBBASE - RURAL = 275.23 C.Y.

ITEM 402 ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 310 - Area 301 (3")
Area = 20,610.00-5,780.78 = 14,829.22 S.F.
T = 1-3/4"
Volume = 14,829.22 x (1.75÷12)÷ 27 = 80.10 C.Y.

ITEM 402 ASPHALT CONCRETE, T = 1-3/4" - RURAL = 80.10 C.Y.

ITEM 404 ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 = 14,829.22 S.F.
T = 1-1/4"
Volume = 14,829.22 x (1.25÷12)÷ 27 = 57.21 C.Y.

ITEM 404 ASPHALT CONCRETE, T = 1-1/4" - RURAL = 57.21 C.Y.

ITEM 409 SEAL COAT - RURAL

Area 409 = Area 301 (3") = 5,780.78 S.F.
Cover Aggregate Volume =
(5780.78 ÷ 9) x 0.008 = 5.14 C.Y.
Bituminous Material Gal =
(5780.78 ÷ 9) x 0.30 = 192.69 GAL.

ITEM 409 SEAL COAT - RURAL - COVER AGGREGATE = 5.14 C.Y.

ITEM 409 SEAL COAT - RURAL - BITUMINOUS MATERIAL* 192.69 GAL.

ITEM 605 AGGREGATE DRAINS - RURAL

Taper & To C-1517+00
34 @ 27 L.F. = 918 L.F.
Sta. C-1517+00 to C-1519+50
10 @ 27 L.F. = 270 L.F.
Sta. C-1519+50 to C-1525+50
24 @ 11.5 L.F. = 276 L.F.

ITEM 605 AGGREGATE DRAINS - RURAL = 1,464 L.F.

RAMP D

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"

Sta. D-1485+00 to D-1489+00
Corr. L = 400÷(.017453)(9.5)(6) = 400.99 L.F.
Avg. W = (24.5÷34.5)÷ 2 = 29.5 Ft.
Area = 400.99 x 29.5 = 11,829.20 S.F.
Sta. D-1489+00 to D-1493+13.61
Corr. L = 413.61(1914.36÷1909.86) = 414.58 L.F.
Avg. W = (34.5÷44.5)÷ 2 = 39.5 Ft.
Area = 414.58 x 39.5 = 16,376.07 S.F.
Sta. D-1493+13.61 to D-1497+09.00
Corr. L = 395.39÷(.017453)(12)(6)= 396.65 L.F.
Area = 24.5 x 396.65 = 9,717.92 S.F.
Sta. D-1497+09.00 to D-1503+53.81
Area = 24.5 x 644.81 = 15,797.84 S.F.
Sta. D-1505+72.18 to D-1509+10.34
Corr. L = $338.16-(.017453)(12)\left[\frac{(4.5)(338.16)}{100}-\frac{(338.16)^2(9)}{400}\right]$ = 336.32 L.F.
Area = 24.5 x 336.32 = 8,239.84 S.F.
Sta. D-1509+10.34 to D-1515+73.5
Corr. L = 663.16(1261.24÷1273.24)= 656.91 L.F.
Area = 24.5 x 656.91 = 16,094.30 S.F.

Total Area - Item 301 - Rural = 78,055.17 S.F.

Volume = 78,055.17 x (8 ÷ 12)÷ 27 = 1,927.28 C.Y.

Add Volume of 4" Step
Volume = (400.99÷414.58÷396.65÷644.81÷336.32÷656.91)(16 x 2)÷(144 x 27) = 23.46 C.Y.

T = 3"

Sta. D-1485+00 to D-1489+00
(Assume 3' & 4' Shlds.)
Corr. L = 400÷(.017453)(11.6)(6)= 401.21 L.F.
Area = 7.0 x 401.21 = 2,808.47 S.F.
Sta. D-1485+00 to D-1487+90, Lt.
(Shld. Taper)
Corr. L = $280-(.017453)(8.2)(6)\left(\frac{280}{400}\right)^2$ = 279.58 L.F.
Avg. W = 7 ÷ 2 = 3.5 Ft.
Area = 3.5 x 279.58 = 978.53 S.F.
Sta. D-1489+00 to D-1493+13.61
Corr. L = 413.61(1917.61 ÷ 1909.86) = 415.19 L.F.
Area = 7 x 415.19 = 2,906.33 S.F.
Sta. D-1493+13.61 to D-1495+34.5
Corr. L = 220.89÷(.017453)(26)(220.89÷400)^2(6) = 221.72 L.F.
Area = 4 x 221.72 = 886.88 S.F.
Area (By Plan.) = 2,280.00 S.F.
Sta. D-1495+34.5 to D-1497+09.00
Corr. L = 174.5÷(.017453)(3.86)(6)(174.5 ÷ 400)^2 = 175.27 L.F.
Area = 14 x 175.27 = 2,453.78 S.F.
Sta. D-1497+09.00 to D-1503+78.8
Area = 14 x 669.8 = 9,377.20 S.F.
Sta. D-1505+47.2 to D-1509+10.34
Corr. L = $363.14-(.017453)(3.86)\left[\frac{(4.5)(363.14)}{100}-(9)\left(\frac{363.14}{400}\right)^2\right]$ = 362.54 L.F.
Area = 14 x 362.54 = 5,075.56 S.F.
Sta. D-1509+10.34 to D-1515+73.5
Corr. L = 663.16(1269.38÷1273.24)= 661.15 L.F.
Area = 14 x 661.15 = 9,256.10 S.F.

RAMP D (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Total Area - Item 301 - Rural T = 3" = 36,022.85 S.F.

Volume = 36,022.85 x (3÷12) ÷ 27 = 333.54 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 2,284.28 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's See Item 301 (3"))

Sta. D-1485+00 to D-1489+00
(Assume 3' & 4' Shlds.)
Corr. L = 401.21 L.F.
Area = 6.5 x 401.21 = 2,607.86 S.F.
Sta. D-1485+00 to D-1487+90, Lt.
(Shld. Taper)
Corr. L = 279.58 L.F.
Area = 3.5 x 279.58 = 978.53 S.F.
Sta. D-1489+00 to D-1493+13.61
Corr. L = 415.19 L.F.
Area = 6.5 x 415.19 = 2,698.74 S.F.
Sta. D-1493+13.61 to D-1495+34.5
Corr. L = 221.72 L.F.
Area = 3.75 x 221.72 = 831.45 S.F.
Area (By Plan.) = 2,225.00 S.F.
Sta. D-1495+34.5 to D-1497+09.00
Corr. L - 175.27 L.F.
Area = 13.5 x 175.27 = 2,366.14 S.F.
Sta. D-1497+09 to D-1503+78.8
Area 13.5 x 669.8 x 25 x 0.5 = 9,054.80 S.F.
Sta. D-1505+47.2 to D-1509+10.34
Corr. L = 362.54 L.F.
Area = 13.5 x 362.54 + 25 x 0.5 = 4,906.79 S.F.
Sta. D-1509+10.34 to D-1515+73.5
Corr. L = 661.15 L.F.
Area = 13.5 x 661.15 = 8,925.53 S.F.

Total Item 304 - Rural T = 6" = 34,594.84 S.F.

Volume = 34,594.84 x 0.5 ÷ 27 = 640.64 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 11.73 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 628.91 C.Y.

ITEM 310 - SUBBASE - RURAL

Area 310 = Area 301 (8") = 78,055.17 S.F.
T = 4"
Volume = 78,055.17 x 0.333 ÷ 27 = 963.64 C.Y.
Area 310 = Area 304 = 34,594.84 S.F.
Avg. T = (6÷3) ÷ 2 = 0.375 Ft.
Volume = 34,594.84 x (4.5÷12) ÷ 27 = 480.48 C.Y.
Area Beneath Approach Slabs T = 6"
Volume = 2 x 24 x 25 x 0.5 ÷ 27 = 22.22 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 11.73 C.Y.
ITEM 310 SUBBASE - RURAL = 1,454.61 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 301 (8")÷ Area 304 - Area 301 (3")
Area 402 = 78,055.17÷34,594.84-36,022.85 = 76,627.16 S.F.
T = 1.75"
Volume = 76,627.16 x (1.75÷12)÷ 27 = 413.88 C.Y.

* as per plan

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

28

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC: SAS 8-69
CHK: RCH 9-69

CALCULATIONS

RAMP D (Continued)

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 = 76,627.16 S.F.
T = 1-1/4"
Volume = 76,627.16 x (1.25÷12)÷ 27 = 295.63 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL = 295.63 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area (3") = 36,022.85 S.F.
Cover Aggregate Volume =
(36,022.85 ÷ 9) x 0.008 = 32.02 C.Y.
Bituminous Material Volume =
(36,022.85 ÷ 9) x 0.30 = 1,200.76 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 32.02 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* 1,200.76 GAL.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL

T = 13"
Area = 2 x 24 x 25 ÷ 9 = 133.33 S.Y.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL = 133.33 S.Y.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. D-1496+00 to D-1497+00
4 @ 18 L.F. = 72 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 72 L.F.

RAMP E

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. E-1517+11 to E-1524+00
Corr. L = 689(1157.92÷1145.92)= 696.22 L.F.
Area = 696.22 x 24.5 = 17,057.39 S.F.

Volume (T = 8") = 17,057.39 x 0.667 ÷ 27 = 421.38 C.Y.

Add Volume of 4" Step
Volume = 696.22(16 x 2)÷(27 x 144) = 5.73 C.Y.

T = 3"
Sta. E-1517+11 to E-1524+00, Lt.
(4' Shld.)
Corr. L = 689(1171.92÷1145.92) = 704.63 L.F.
Area = 704.63 x 4 = 2,818.53 S.F.
Sta. E-1517+11 to E-1518+11, Rt.
(8 - 10' Shld.)
Corr L = 100(1141.42÷1145.92) = 99.61 L.F.
Area = 99.61 x 9 = 896.49 S.F.
Sta. E-1518+11 to E-1524+00
Corr. L = 589(1140.92÷1145.92)= 586.43 L.F.
Area = 586.43 x 10 = 5,864.30 S.F.

Total Item 301 - Rural T = 3" = 9,579.31 S.F.

Volume = 9579.31 x 0.333 ÷ 27 = 88.70 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 515.81 C.Y.

RAMP E (Continued)

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's See Item 301 (3"))

Sta. E-1517+11 to E-1524+00, Lt.
Corr. L = 704.63 L.F.
Area = 704.63 x 3.75 = 2,642.36 S.F.
Sta. E-1517+11 to E-1518+11, Rt.
Corr. L = 99.61 L.F.
Area = 99.61 x 8.75 = 871.59 S.F.
Sta. E-1518+11 to E-1524+00, Rt.
Corr. L = 586.43 L.F.
Area = 586.43 x 9.75 = 5,717.69 S.F.

Total Item 304 T = 6" = 9,231.64 S.F.

Volume = 9231.64 x 0.5 ÷ 27 = 170.96 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 2.87 C.Y.

ITEM 304 AGGREGATE BASE - RURAL = 168.09 C.Y.

ITEM 310 SUBBASE - RURAL

Area 310 Beneath Pavement = Area 301 (8")
Area = 17,057.39 S.F.
T = 4"
Volume = 17,057.39 x 0.333 ÷ 27 = 210.37 C.Y.
Area 310 Beneath Shoulders = Area 304
Area = 9,231.64 S.F.
Avg. T = 4.5" = 0.375 Ft.
Volume = 9231.64 x 0.375 ÷ 27 = 128.22 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 2.87 C.Y.

ITEM 310 SUBBASE - RURAL = 335.72 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 310 - Area 301 (3")
Area = 26,289.03 - 9579.31 = 16,709.72 S.F.
Volume = 16,709.72 x (1.75 ÷ 12) ÷ 27 = 90.25 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4"- RURAL = 90.25 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 = 16,709.72 S.F.
Volume = 16,709.72 x (1.25 ÷ 12)÷ 27 = 64.47 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL = 64.47 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area 301 (3")
Area = 9,579.31 S.F.
Cover Aggregate Volume =
(9579.31 ÷ 9) x 0.008 = 8.51 C.Y.
Bituminous Material Volume =
(9579.31 ÷ 9) x 0.30 = 319.31 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 8.51 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* 319.31 GAL.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. E-1516+00 to E-1522 +00
24 @ 20 L.F. = 480 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 480 L.F.

RAMP F

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. F-1513+65.23 to F-1515+65.23
(Nose At I-270)
Corr. L = 200÷(0.017453 x 8 x(22÷6)) = 203.91 L.F.
Area = 203.91 x 16.5 = 3,364.52 S.F.
Sta. F-1515+65.23 to F-1522+50.69
Corr. L = 685.46(237.18 ÷ 229.18) = 709.39 L.F.
Area = 709.39 x 16.5 = 11,704.94 S.F.
Sta. F-1522+50.69 to F-1524+50.69
Corr. L = 200÷(0.017453 x 8 x 25) = 203.49 L.F.
Area = 203.49 x 16.5 = 3,357.58 S.F.

Total Item 301 - Rural T = 8" = 18,427.04 S.F.

Volume = 18,427.04 x 0.667 ÷ 27 = 455.22 C.Y.

Add Volume of 4" Step
Volume = (203.91 + 709.39 + 203.49)
(16 x 2) ÷ (144 x 27) = 9.19 C.Y.

T = 3"
Sta. F-1513+65.23 to F-1524+50.69
(Assume Cont. 3' Shlds.)
Sum of Corr. L = 203.91 + 709.39 + 203.49 = 1116.79 L.F.
Area = 1116.79 x 6.0 = 6,700.74 S.F.
Sta. F-1513+65.23 to F-1514+65.23, Rt.
Corr. L = 100-(0.017453 x 4.25 (5.5 ÷ 6.0)) = 99.15 L.F.
Area = 99.15 x 5 ÷ 2 = 247.88 S.F.
Sta. F-1522+50.69 to F-1524+50.69, Rt.
Corr. L = 200-(0.017453 x 25 x 3.75) = 198.36 L.F.
Area = 198.36 x 3 ÷ 2 = 297.54 S.F.

Total Item 301 - Rural T = 3" = 7,246.16 S.F.

Volume = 7246.16 x 0.25 ÷ 27 = 67.09 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 531.50 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's See Item 301 (3"))
Sta. F-1513+65.23 to F-1524+50.69,
Both Shlds.
Corr. L = 1116.79 L.F.
Area = 1116.79 x 5.5 = 6,142.34 S.Y.
Sta. F-1513+65.23 to F-1514+65.23
See Item 301 - Shlds. = 247.88 S.Y.
Sta. F-1522+50.69 to F-1524+50.69
See Item 301 - Shlds. = 297.54 S.Y.

Total Item 304 - Rural T = 6" = 6,687.76 S.Y.

Volume = 6687.76 x 0.500 ÷ 27 = 123.85 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 4.59 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 119.26 C.Y.

* as per plan

CALCULATIONS

CALC: SAS 8-69
CHK: RCH 9-69

RAMP F (Continued)

ITEM 310 - SUBBASE - RURAL

Area 310 Beneath Pavement = Area 301 (8")
Area = 18,427.04 S.F.
T = 4"
Volume = 18,427.04 x 0.333 ÷ 27 = 227.27 C.Y.
Area 310 Beneath Shoulders = Area 304
Area = 7,404.58 S.F.
Avg. T = 5.5" = .458 Ft.
Volume = 6687.76 x 0.458 ÷ 27 = 113.44 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 4.60 C.Y.

ITEM 310 SUBBASE - RURAL = 336.11 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 310 - Area 301 (3")
Area = 25,114.80 - 7246.16 = 17,868.64 S.F.
Volume = 17,868.64 x (1.75 ÷ 12) ÷ 27 = 96.51 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL = 96.51 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 = 17,868.64 S.F.
Volume = 17,868.64 x (1.25 ÷ 12) ÷ 27 = 68.94 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL = 68.94 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area 301 (3") = 7,246.16 S.F.
Cover Aggregate Volume =
(7246.16 ÷ 9) x 0.008 = 6.44 C.Y.
Bituminous Material Volume =
(7246.16 ÷ 9) x 0.30 = 241.54 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 6.44 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* = 241.54 GAL.

RAMP G

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. G-1495+98.35 to G-1496+98.35
(Begin At Ramp G Nose) (PCC)
Corr. L = 100(11,467.2÷11459.2) = 100.07 L.F.
Area = 100.07 x 16.5 = 1,651.16 S.F.
Sta. G-1496+98.35 to G-1502+98.35 (PT)
Corr. L = 600(1440.39÷1432.39) = 603.35 L.F.
Area = 603.35 x 16.5 = 9,955.29 S.F.
Sta. G-1502+98.35 to G-1504+02.83 (Tangent)
Area = 104.48 x 16.5 = 1,723.92 S.F.
Sta. G-1504+02.83 to G-1510+90.28 (PT)
Corr. L = 687.45 x 946.93 ÷ 954.93 = 681.69 L.F.
Area = 681.69 x 16.5 = 11,247.88 S.F.
Sta. G-1510+90.28 to G-1512+21.63 (Tangent)
Area = 131.35 x 16.5 = 2,167.28 S.F.
Sta. G-1512+21.63 to G-1516+98.13 (PCC)
Corr. L = 476.5 x 724.20 ÷ 716.20 = 481.82 L.F.
Area = 481.82 x 16.5 = 7,950.03 S.F.
Sta. G-1516+98.13 to G-1517+98.13
(Taper 16' to 14')
Corr. L = 100 x 1439.89 ÷ 1432.39 = 100.52 L.F.
W = (16.5 + 14.5) ÷ 2 = 15.5 Ft.
Area = 100.52 x 15.5 = 1,558.06 S.F.

* as per plan

RAMP G (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

T = 8" (Continued)
Sta. G-1517+98.13 to G-1518+98.13
(Taper 16' to 14')
Corr. L = 100 x 1439.89÷1432.39 = 100.52 L.F.
W = (16.25 + 14.25)÷ 2 = 15.25 Ft.
Area = 100.52 x 15.25 = 1,532.93 S.F.

Total Item 301 T = 8" = 37,786.55 S.F.

Volume = 37,786.55 x 0.667 ÷ 27 = 933.47 C.Y.

Add Volume of 4" Step
Volume = [(100.07 + 603.35 + 104.48 + 681.69 + 131.35 + 481.82 + 100.52) (2) + 100.52] (16)÷(144 x 27) = 18.55 C.Y.

T = 3"
Sta. G-1495+98.35 to G-1496+98.35,
(Both At Ramp G Nose)
Corr. L = 100(11476.7 ÷ 11459.2) = 100.15 L.F.
Area = 100.15 x 3 = 300.46 S.F.
Corr. L = 100(11456.45 ÷ 11459.20) = 99.98 L.F.
Area = 99.98 x (3 + 8) ÷ 2 = 549.89 S.F.
(For Corr. L's See Item 301 (8"))
Sta. G-1496+98.35 to G-1516+98.13
Corr. L = 603.35 + 104.48 + 681.69 + 131.35 + 481.82 = 2002.69 L.F.
Area = 2002.69 x 6 = 12,016.14 S.F.
Sta. G-1516+98.13 to G-1517+98.13, Lt.
(End)(SB Nose)
Corr. L = 100 x 1448.64÷1432.39 = 101.13 L.F.
Avg. W = (3 + 2) ÷ 2 = 2.5 Ft.
Area = 101.13 x 2.5 = 252.84 S.F.
Sta. G-1516+98.13 to G-1518+98.13, Rt.
(3' to 8' Taper)
Corr. L = 200(1429.64÷1432.39) = 199.62 L.F.
Area = 199.62 x (3 + 8) ÷ 2 = 1,097.91 S.F.

Total Item 301 T = 3" = 14,217.24 S.F.

Volume = 14,217.24 x 0.25 ÷ 27 = 131.64 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 1,083.66 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's See Item 301 (3"))
Sta. G-1495+98.35 to G-1496+98.35,
Both Shlds.
(At Ramp G Nose)(Lt. Shld.)
Corr. L = 100.15 L.F.
Area = 100.15 x 2.75 = 275.41 S.F.
Corr. L = 99.98 L.F.
Area = 99.98 x 5.25 = 524.90 S.F.
Sta. G-1496+98.35 to G-1502+98.35 (PT)
Corr. L = 2002.69 L.F.
Area = 2002.69 x 5.5 = 11,014.80 S.F.
Sta. G-1516+98.13 to G-1517+98.13 Lt.
(End at SB Nose)
Corr. L = 101.13 S.F.
Area = 101.13 x 2.25 = 227.54 S.F.
Sta. G-1516+98.13 to 1518+98.13, Lt.
(3' to 8' Taper)
Corr. L = 199.62 L.F.
Area = 199.62 x 5.25 = 1,048.00 S.F.

Total Item 304 T = 6" = 13,090.65 S.F.
Volume = 13,090.65 x 0.50 ÷ 27 = 242.42 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 9.27 C.Y.
ITEM 304 AGGREGATE BASE - RURAL = 233.15 C.Y.

RAMP G (Continued)

ITEM 310 - SUBBASE - RURAL

Area 310 = Area 301 (8")
Area = 37,786.55 S.F.
T = 4"
Area 310 = Area 304
Area = 13,090.65 S.F.
Avg. Thickness = 5.5" = .458 Ft.
Volume = (37,786.55 x 0.333 + 13,090.65 x 0.458) ÷ 27 = 688.09 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 9.28 C.Y.

ITEM 310 - SUBBASE - RURAL = 678.81 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 310 - Area 301 (3")
Area = 50,877.20 - 14,217.24 = 36,659.96 S.F.
Volume = 36,659.96 x (1.75 ÷ 12) ÷ 27 = 198.01 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL = 198.01 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 = 36,659.96 S.F.
Volume = 36,659.96 x (1.25 ÷ 12) ÷ 27 = 141.44 C.Y.

Item 404 ASPHALT CONCRETE, T = 1-1/4" - RURAL = 141.44 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area 301 (3")
Area = 14,217.24 S.F.
Cover Aggregate Volume =
(14,217.24 ÷ 9) x 0.008 = 12.64 C.Y.
Bituminous Material Volume =
(14,217.24 ÷ 9) x 0.30 = 473.91 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 12.64 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* = 473.91 GAL.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. G-1510+00 to G-1519+00
36 @ 17 L.F. = 612 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 612 L.F.

RAMP H

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. H-1494+36.0 to H-1496+01.28
Corr. L = 165.28+(.017453)(8)[(25 x 165.28)÷100-(165.28 ÷ 200)^2(22.5)]= 168.91 L.F.
Area = 16.5 x 168.91 = 2,787.02 S.F.
Sta. H-1496+01.28 to H-1505+39.68
Corr. L = 938.40(237.18÷229.18)= 971.16 L.F.
Area = 16.5 x 971.16 = 16,024.07 S.F.
Sta. H-1505+39.68 to H-1506+39.68
Corr. L = 100+(.017453)(7.5)[(25 x 100)÷100-(100÷200)^2(22.5)]= 102.54 L.F.
Area = 15.5 x 102.54 = 1,589.37 S.F.
Sta. H-1506+39.68 to H-1507+39.68
Corr. L = 100+(0.17453)(7.5)[(2.5 x 100)÷100+(100÷200)^2(22.5)]= 101.06 L.F.
Area = 15.25 x 101.06 = 1,541.16 S.F.

Total Item 301 - Rural T = 8" = 21,941.62 S.F.

CALCULATIONS

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA. 270-26.39N
FRA. 62-20.83

RAMP H (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

T = 8" (Continued)

Volume = (21,941.62) x 0.667 ÷ 27 = 541.77 C.Y.

Add Volume of 4" Step
Volume = [(160.91 + 971.16 + 102.54) (2)÷ 100](16)÷(144 x 27) = 10.64 C.Y.

T = 3"
(For Corr. L's See Item 301 (8"))
Sta. H-1494+11.0 to H-1505+39.68
Corr. L = 190.28+(.017453)(8)[(25 x 190.28)÷ 100-(190.28÷200)²(22.5)] = 1165.24 L.F.
Area = 6.0 x 1165.24 = 6,991.44 S.F.
Area (By Plan.) = 240.00 S.F.
Sta. H-1505+39.68 to H-1505+89.68
Corr. L = 50+(.017543)(7.75)[(25 x 50)÷ 100-(50÷200)²(22.5)] = 51.50 L.F.
Area = 6.0 x 51.50 = 309.00 S.F.
Sta. H-1505+89.68 to H-1507+39.68
Corr. L = 150-(.017453)(2.75)[(2.5 x 150)÷ 100+(150÷200)²(22.5)] = 149.21 L.F.
Area = 5.5 x 149.21 = 820.66 S.F.
Area (By Plan.) = 130.00 S.F.

Total Item 301 - Rural T = 3" = 8,491.10 S.F.

Volume = (8491.10) x 0.25 ÷ 27 = 78.62 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 631.03 C.Y.

ITEM 304 AGGREGATE BASE - RURAL

(For Corr. L's, See Item 301 (3"))

Sta. H-1494+11.0 to H-1505+89.68
Corr. L = 1216.74 L.F.
Area = 5.5 x 1216.74 + 2 x 25 x 0.25 = 6,704.57 S.F.
Area (By Plan) = 240.00 S.F.
Sta. H-1505+89.68 to H-1507+39.68
Corr. L = 149.21 L.F.
Area = 5.25 x 149.21 = 783.35 S.F.
Area (By Plan.) = 118.00 S.F.

Total Item 304 - Rural T = 6" = 7,845.92 S.F.

Volume = (7845.92) x 0.5 ÷ 27 = 145.29 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 5.32 C.Y.

ITEM 304 AGGREGATE BASE - RURAL = 139.97 C.Y.

ITEM 310 SUBBASE - RURAL

Area 310 = Area 301 (8") = 21,941.62 S.F.
T = 4"
Volume = 0.333 x 21,941.62 ÷ 27 = 270.88 C.Y.
Area 310 = Area 304 = 7845.92 S.F.
Avg. T = 5.5" = 0.458 Ft.
Volume = 7845.92 x 0.458 ÷ 27 = 133.09 C.Y.
Area Under Approach Slabs
T = 6"
Volume = 16 x 25 x 0.5 ÷ 27 = 7.41 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - -5.32 C.Y.

ITEM 310 SUBBASE - RURAL = 406.06 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1-3/4" - RURAL

Area 402 = Area 310 - Area 301 (3") - Area App. Slabs = 21,296.44 S.F.
Volume = (1.75÷12)x 21,296.44 ÷ 27 = 115.03 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1-3/4" - RURAL = 115.03 C.Y.

ITEM 404 - ASPHALT CONCRETE - T = 1-1/4" - RURAL

Area 404 = Area 402 = 21,296.44 S.F.
Volume = (1.25÷12) x 21,296.44 ÷ 27 = 82.16 C.Y.

ITEM 404 - ASPHALT CONCRETE - T = 1-1/4" - RURAL = 82.16 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area 301 (3") = 8491.10 S.F.
Cover Aggregate Volume = (8491.10 ÷ 9) x 0.008 = 7.55 C.Y.
Bituminous Material Volume = (8491.10 ÷ 9) x 0.30 = 283.04 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 7.55 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* = 283.04 GAL.

ITEM 605 - AGGREGATE DRAINS

Sta. H-1494+00 to H-1500+00
24 @ 20 L.F. = 480.00 L.F.

ITEM 605 AGGREGATE DRAINS - RURAL = 480.00 L.F.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL

T = 13"
Volume = 25 x 16 ÷ 9 = 44.44 S.Y.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL = 44.44 S.Y.

RAMP I

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. I-1499+18.23 to I-1503+34.11
Corr. L = 415.88(3894.53÷3906.53) = 414.60 L.F.
Sta. I-1503+34.11 to I-1518+59.5
Corr. L = 1525.39(1897.86÷1909.86) = 1,515.80 L.F.
Sta. I-1524+15.0 to I-1525+50
Corr. L = 135.0(1133.92÷1145.92) = 133.59 L.F.

Total Length = 2,063.99 L.F.

W = 24.5 Ft.
Area = 2063.99 x 24.5 = 50,567.76 S.F.
Volume = 50,576.76 x 0.667 ÷ 27 = 1,249.21 C.Y.

Add Volume of 4" Steps
Volume = (2063.99)(2)(16)÷(144 x 27) = 16.99 C.Y.

T = 3"
Sta. I-1499+18.23 to I-1503+34.11, Lt.
(10' Shld.)
Corr. L = 415.88(3911.53÷3906.53) = 416.41 L.F.
Area = 416.41 x 10 = 4,164.10 S.F.
Sta. I-1503+34.11 to I-1518+74, Lt.
(At Bridge Over I-270)
Corr. L = 1539.89(1914.86÷1909.86)= 1543.92 L.F.
Area = 1543.92 x 10 = 15,439.21 S.F.

RAMP I (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

T - 3" (Continued)
Sta. I-1523+65 to I-1525+50, Lt.
Corr. L = 185(1150.92÷1145.92) = 185.81 L.F.
Area = 185.81 x 10 = 1,858.07 S.F.
Sta. I-1499+18.23 to I-1503+34.11, Rt.
Corr. L = 415.88(3880.53÷3906.53) = 413.11 L.F.
Area = 413.11 x 4 = 1,652.45 S.F.
Sta. I-1503+34.11 to I-1518+92, Rt.
(At Bridge)
Corr. L = 1557.98(1883.86÷1909.86) = 1536.68 L.F.
Area = 1536.68 x 4 = 6,146.72 S.F.
Sta. I-1524+07 to I-1525+50, Rt.
Corr. L = 143(1119.92÷1145.92) = 139.76 L.F.
Area = 139.76 x 4 = 559.02 S.F.
Sta. I-1499+18.23 to I-1501+28, Lt.
(Nose At SB - 62)
Area (By Plan.) = 882.00 S.F.

Total Item 301 T = 3" = 30,701.57 S.F.

Volume = 30,701.57 x 0.25 ÷ 27 = 284.27 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 1,550.47 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's, See Item 301 (3"))

Sta. I-1499+18.23 to I-1503+34.11
Corr. L = 416.41 L.F., Lt.
Area = 416.41 x 9.75 = 4,060.00 S.F.
Corr. L = 413.11 L.F., Rt.
Area = 413.11 x 3.75 = 1,549.16 S.F.
Sta. I-1503+34.11 to I-1518+74, Lt.
Corr. L = 1543.92 L.F.
Area = 1543.92 x 9.75 = 15,059.47 S.F.
Sta. I-1503+34.11 to I-1518+92, Rt.
Corr. L = 1536.68 L.F.
Area = 1536.68 x 3.75 + 25 x 0.25 = 5,768.80 S.F.
Sta. I-1523+65 to I-1525+50, Lt.
Corr. L = 185.81 L.F.
Area = 185.81 x 9.75 + 25 x 0.25 = 1,817.90 S.F.
Sta. I-1524+07 to I-1525+50, Rt.
Corr. L = 139.76 L.F.
Area = 139.76 x 3.75 + 25 x 0.25 = 530.35 S.F.
Sta. I-1499+18.23 to I-1501+28, Lt.
(Nose)
Area (By Plan.) = 882.00 S.F.

Total Item 304 - Rural T = 6" = 29,667.68 S.F.

Volume = 29,667.68 x 0.5 ÷ 27 = 549.40 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 8.50 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 540.90 C.Y.

* as per plan

CALCULATIONS

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA-270-25.59N
FRA-62-20.83

RAMP I (Continued)

ITEM 310 SUBBASE - RURAL

Area 310 Under Pavement = Area 301 (8")
Area = 50,567.76 S.F.
T = 4"
Volume = 50,567.76 x .333 ÷ 27 = 623.67 C.Y.
Area 310 Under Shoulders = Area 304
Area = 29,667.68 S.F.
Avg. Thickness = 5" = .417 Ft.
Volume = 29,667.68 x 0.417 ÷ 27 = 412.05 C.Y.
Area Beneath Approach Slabs
(At I-270 Bridge)
T = 6"
Area = 2 x 25 x 24 = 1,200 S.F.
Volume = 1200 x 0.500 ÷ 27 = 22.22 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 8.49 C.Y.

ITEM 310 SUBBASE - RURAL = 1,049.45 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 310 (Neglecting Approach Slabs)-
Area 301 (3")
Area = 49,533.87 S.F.
Volume = 49,533.87 x (1.75 ÷ 12) ÷ 27 = 267.54 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL = 267.54 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1-1/4" - RURAL

Area 404 = Area 402 = 49,533.87 S.F.
Volume = 49,533.87 x (1.25÷12)÷ 27 = 191.10 C.Y.

ITEM 404 ASPHALT CONCRETE, T = 1-1/4" - RURAL = 191.10 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area 409 = Area 301 (3") = 30,701.57 S.F.
Cover Aggregate Volume =
(30,701.57 ÷ 9) x 0.008 = 27.29 C.Y.
Bituminous Material Volume =
(30,701.57 ÷ 9) x 0.30 = 1,023.38 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 27.29 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* 1,023.38 GAL.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. I-1517+00 to I-1518+50
4 @ 20 L.F. = 80 L.F.
Sta. I-1524+00 to I-1525+50
4 @ 14 L.F. = 56 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 136 L.F.

ITEM 611 - REINFORCED CONCRETE APPROACH SLAB - RURAL

T = 13"
Area = 1200 S.F. (See Item 310)
Area = 1200 ÷ 9 = 133.33 S.Y.

ITEM 611 - REINFORCED CONCRETE APPROACH
SLAB - RURAL = 133.33 S.Y.

RAMP J

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5)

T = 8"
Sta. J-1109+56.4 to J-1110+50
(Taper 22' to 16')
Avg. W = (22.5+16.5) ÷ 2 = 19.5 Ft.
Area = 93.6 x 19.5 = 1,825.50 S.F.
Sta. J-1110+50 to J-1111+73.18
(Tangent)
Area = 123.18 x 16.5 = 2,032.47 S.F.
Sta. J-1111+73.18 to J-1115+69.34 (PT)
Corr. L = 396.16(1424.39÷1432.39) =
393.95 L.F.
Area = 393.95 x 165. = 6,500.12 S.F.
Sta. J-1115+69.34 to J-1117+50
(Tangent)
Area = 180.66 x 16.5 = 2,980.89 S.F.
Sta. J-1117+50 to J-1118+00
(To Begin. Pav't. Taper)
Corr. L = 50(1440.39÷1432.39)= 50.28 L.F.
Area = 50.28 x 16.5 = 829.60 S.F.
Sta. J-1118+00 to J-1119+00
(Pav't. Taper, 16' to 14')
Corr. L = 100(1439.89÷1432.39) = 100.52 L.F.
W = (16.5+14.5)÷ 2 = 15.5 Ft.
Area = 100.52 x 15.5 = 1,558.11 S.F.
Sta. J-1119+00 to J-1120+00
(Pav't. Taper, 16' to 14')
Corr. L = 100(1439.89÷1432.39) = 100.52 L.F.
Area = 100.52 x 15.25 = 1,532.93 S.F.

Total Item 301 T = 8" = 17,259.32 S.F.

Volume = 17,259.32 x 0.667 ÷ 27 = 426.37 C.Y.

Add Volume of 4" Step
Volume = [(93.6 + 123.18 + 393.95 + 180.66 +
50.28 + 100.52)(2)+ 100](16) ÷
(144 x 27) = 8.17 C.Y.

T = 3" *(For Corr. L's See Item 301 (8"))*
Sta. J-1109+56.4 to J-1111+73.18
(Tangent)(Both Shlds.)
Area = 216.78 x 6 = 1,300.68 S.F.
Sta. J-1111+73.18 to J-1118+00.00
Corr. L = 393.95 + 180.66 + 50.28 =
624.89 L.F.
Area = 624.89 x 6.0 = 3,749.34 S.F.
Sta. J-1118+00 to J-1119+00, Lt.
(Shld. Taper 3' to 2')
Corr. L = 100(1448.64÷1432.39) = 101.13 L.F.
Avg. W = 2.5 Ft.
Area = 101.13 x 2.5 = 252.84 S.F.
Sta. J-1118+00 to J-1120+00, Rt.
(Shld. Taper 3' to 8')
Corr. L = 200(1429.64÷1432.39) = 199.62 L.F.
Area = 199.62 x 5.50 = 1,097.89 S.F.

Total Item 301 T = 3" = 6,400.75 S.F.

Volume = 6400.75 x 0.25 ÷ 27 = 59.27 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5) = 493.81 C.Y.

RAMP J (Continued)

ITEM 304 - AGGREGATE BASE (U-202(5)

(For Corr. L's See Item 301 (8")
Sta. J-1109+56.4 to J-1111+73.18
Area = 216.78 x 5.5 = 1,192.29 S.F.
Sta. J-1111+73.18 to J-1118+00
Corr. L= 624.89 L.F.
Area = 624.89 x 5.5 = 3,436.90 S.F.
Sta. J-1118+00 to J-1119+00, Lt.
Corr. L = 101.13 L.F.
W = 2.25 Ft.
Area = 101.13 x 2.25 = 227.54 S.F.
Sta. J-1118+00 to J-1120+00, Rt.
Corr. L = 199.62 L.F.
Area = 199.62 x 5.25 = 1,048.00 S.F.

Total Item 304 (U-202(5) = 5,904.73 S.F.

Volume = 5,904.73 x 0.5 ÷ 27 = 109.35 C.Y.
Deduct 1/2 of 4" Step (See Item 301 = - 4.09 C.Y.

ITEM 304 - AGGREGATE BASE (U-202(5) = 105.26 C.Y.

ITEM 310 SUBBASE (U-202(5)

Area 310 Under Pavement = Area 301 (8")
Area = 17,259.32 S.F.
T = 4"
Volume = 17,259.32 x 0.333 ÷ 27 = 212.86 C.Y.
Area 310 Under Shoulders = Area 304
Area = 5904.73 S.F.
Avg. T = 5.5" = 0.458 Ft.
Volume = 5904.73 x 0.458 ÷ 27 = 100.16 C.Y.
Deduct 1/2 of 4" Step (See Item 301) = - 4.09 C.Y.

ITEM 310 SUBBASE (U-202(5) = 308.93 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1-3/4" (U-202(5)

Area 402 = Area 310 - Area 301 (3")
Area = 23,164.05 - 6,400.75 = 16,763.30 S.F.
Volume = 16,763.30 x (1.75÷12)÷ 27 = 90.54 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1-3/4" (U-202(5)= 90.54 C.Y.

ITEM 404 - ASPHALT CONCRETE - T = 1-1/4" (U-202(5)

Area 404 = Area 402 = 16,763.30 S.F.
Volume = 16,763.30 x (1.25÷12) ÷ 27 = 64.67 C.Y.

ITEM 404 - ASPHALT CONCRETE - T = 1-1/4" (U-202(5)= 64.67 C.Y.

ITEM 409 - SEAL COAT (U-202(5)

Area 409 = Area 301 (3")
Area = 6,400.75 S.F.
Cover Aggregate Volume =
(6400.75 ÷ 9) x 0.008 = 5.69 C.Y.
Bituminous Material Volume =
(6,400.75 ÷ 9) x 0.30 = 213.36 GAL.

ITEM 409 - SEAL COAT (U-202(5) - COVER
AGGREGATE = 5.69 C.Y.

ITEM 409 - SEAL COAT (U-202(5) -
BITUMINOUS MATERIAL* = 213.36 GAL.

* as per plan

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA 270 - 25.39 N
FRA. 62 - 20.83

CALCULATIONS

RAMP J (Continued)

ITEM 605 - AGGREGATE DRAINS (U-202(5)

Sta. J-1116+50 to J-1120+00
14 @ 20 L.F. = 280 L.F.

ITEM 605 - AGGREGATE DRAINS (U-202(5) = 280 L.F.

RAMP K

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5)

T = 8"
Sta. K-1113+37.6 to K-1114+25
Corr. L = 87.40(489.46÷477.46) - 89.60 L.F.
W = 24.5 Ft.
Area = 89.60 x 24.5 = 2,195.10 S.F.
Sta. K-1114+25 to K-1115+19.95, (PT)
(Taper 24' to 20')
Corr. L = 94.95(488.46÷477.46) = 97.14 L.F.
W = (24.5 + 20.5) ÷ 2 = 22.5 Ft.
Area = 97.14 x 22.5 = 2,185.58 S.F.
Sta. K-1115+19.95 to K-1116+25
(Taper 20' to 16')
W = (16.5 + 20.5)÷ 2 = 18.5 Ft.
Area = 105.05 x 18.5 = 1,943.42 S.F.
Sta. K-1116+25 to K-1124+96.52
(PC)(Tangent)
Area = 871.52 x 16.5 = 14,380.08 S.F.
Sta. K-1124+96.52 to K-1126+00
(Nose at SB-62)
Corr. L = 103.48(3827.71÷3819.71) =
103.70 L.F.
Area = 103.70 x 16.5 = 1,710.98 S.F.

Total Item 301 T = 8" = 22,415.16 S.F.

Volume = 22,415.16 x 0.667 ÷ 27 = 553.74 C.Y.

Add Volume of 4" Step
Volume = [(89.60 + 97.14 + 105.05 +
871.52 + 103.70)(2)](16) ÷
(144 x 27) = 10.42 C.Y.

T = 3"
(For Corr L's, See Item 301 (8"))
Sta. K-1113+37.6 to K-1124+96.52
Corr. L = 89.60 + 97.14 + 105.05 +
871.52 = 1163.31 L.F.
Area = 1163.31 x 6 = 6,979.86 S.F.
Sta. K-1124+96 to K-1126+00
Corr. L - 103.70 L.F.
Area = 103.70 x 6 = 622.20 S.F.
Area (By Plan.)(Taper 3' to 8' Lt.) = 250.00 S.F.

Total Item 301 T = 3" = 7,852.06 S.F.

Volume = 7852.06 x 0.333 ÷ 27 = 96.84 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5)= 661.00 C.Y.

ITEM 304 - AGGREGATE BASE (U-202(5)

(For Corr. L's See Item 301 (3"))
Sta. K-1113+37.6 to K-1126+00
Corr. L = 1163.31 + 103.70 = 1267.01 L.F.
W = 5.50 Ft.
Area = 1267.01 x 5.5 = 6,968.56 S.F.
Sta. K-1124+96.52 to K-1126+00, Left
(Shld. Taper
Area (By Plan.) = 250.00 S.F.

Total Item 304 T = 6" = 7,218.56 S.F.

RAMP K (Continued)

ITEM 304 - AGGREGATE BASE (U-202(5)- Continued

Volume = 7218.56 x 0.5 ÷ 27 = 133.68 C.Y.

Deduct 1/2 of 4" Step (See Item 301) = - 5.21 C.Y.

ITEM 304 - AGGREGATE BASE (U-202(5) = 128.47 C.Y.

ITEM 310 - SUBBASE (U-202(5)

Area 310 Under Pavement = Area 301 (8")
Area = 22,415.16 S.F.
T = 4"
Area 310 Under Shoulders = Area 304
Area = 7,218.56 S.F.
Avg. T = 5.5" = .458 Ft.
Volume [(22,415.16 x 0.333)+(7218.56 x .458)]÷
27 = 398.90 C.Y.

Deduct 1/2 of 4" Step (See Item 301) = - 5.21 C.Y.

ITEM 310 - SUBBASE (U-202(5) = 393.69 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1-3/4" (U-202(5)

Area 402 = Area 310 - Area 301 (3")
Area = 29,633.72 - 7852.06 = 21,781.66 S.F.
Volume = 21,781.66 x (1.75÷12) ÷ 27 = 117.65 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1-3/4" (U-202(5)= 117.65 C.Y.

ITEM 404 - ASPHALT CONCRETE - T = 1-1/4" (U-202(5)

Area 404 = Area 402 = 21,781.66 S.F.
Volume = 21,781.66 x (1.25÷12) ÷ 27 = 84.03 C.Y.

ITEM 404 - ASPHALT CONCRETE - T = 1-1/4" (U-202(5)= 84.03 C.Y.

ITEM 409 SEAL COAT (U-202(5)

Area 409 = Area 301 (3") = 7852.06 S.F.
Cover Aggregate Volume =
(7852.06 ÷ 9) x 0.008 = 6.98 C.Y.
Bituminous Material Volume =
(7852.06 ÷ 9) x 0.30 = 261.74 GAL.

ITEM 409 - SEAL COAT (U-202(5) -
COVER AGGREGATE = 6.98 C.Y.

ITEM 409 - SEAL COAT (U-202(5) -
BITUMINOUS MATERIAL* = 261.74 GAL.

U.S.R. 62 & U.S.R. 62 SOUTHBOUND

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5)

T = 8"
Sta. 1100+00 to 1108+84.46
W = 73 Ft.
Area = 884.45 x 73 = 64,565.58 S.F.
Sta. 1111+09.42 to 1114+50 Rt.
(To NB)
Corr. L = 340.58 (3937.28÷3906.35) = 343.26 L.F.
Area = 343.26 x 36.5 = 15,528.99 S.F.
Sta. 1111+51.02 to 1117+50, Lt.
Corr. L = 598.98(3884.53÷3906.53) =
595.60 L.F.
Avg. W = (37.8 x 51.5)÷ 2 = 44.65 Ft.
Area = 595.60 x 44.65 = 26,593.54 S.F.

U.S.R. 62 & U.S.R. 62 SOUTHBOUND (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5)- Continued

Sta. 1180+85 to 1181+00
(End of 50:1 Taper)
Avg. W = 61 +(15+50)÷ 2 = 61.15 Ft.
Area = 15 x 61.15 = 917.25 S.F.
Sta. 1181+00 to 1184+00
Area = 300 x 61 = 18,300.00 S.F.
Sta. 1184+00 to 1184+90
(Median Taper)
Avg. W = (65+71)÷ 2 = 68 Ft.
Area = 90 x 68 = 6,120.00 S.F.
Sta. 1184+90 to 1187+67.39
W = 80.5 Ft.
Area = 277.39 x 80.5 = 22,329.90 S.F.
Sta. 1184+00 to 1186+72.75, Lt.
(Taper for Left)
L = 272.75 L.F.
Avg. W - 6 Ft.
Area = 272.75 x 6 = 1,636.50 S.F.
Sta. 1186+72.75 to 1189+50, Lt.
(Out. Lane)
Area = 277.25 x 12 = 3,327.00 S.F.
Sta. 1187+67.39 to 1189+80
(68' Width)
Area = 212.61 x 68.5 = 14,563.78 S.F.
Sta. 1187+67 to Sta. 1191+00, Rt.
(Taper)
Avg. W = 6 Ft.
Area = 332.61 x 6 = 1,995.66 S.F.
Sta. 1189+80 to 1190+75, Rt.
Area = 95 x 24.5 = 2,327.50 S.F.
Sta. 1189+50 to 1191+50, Lt.
(Out. Taper)
Avg. W = 6 Ft.
Area = 200 x 6 = 1,200.00 S.F.
Sta. 1189+80 to 1190+75, Lt.
(2 Lanes & Inside Taper)
Avg. W = (34.33+28.25)÷ 2 = 31.29 Ft.
Area = 95 x 31.29 = 2,972.55 S.F.
Sta. 1190+75 to 1203+31.66
(Full Pav't)
W = 49 Ft.
Area - 1256.66 x 49 = 61,576.34 S.F.
Sta. 1203+31.66 to 1203+57
(Begin. of Recovery Taper to Begin. of
Med. Pav't.)
Avg. W = (52.75+54.33)÷2 = 53.54 Ft.
Area = 25.34 x 53.54 = 1,356.70 S.F.
Sta. 1203+57 to 1206+00
Area = 243 x 64.5 = 15,673.50 S.F.
Sta. 1206+00 to 1214+00
Avg. W = (64.5+53.5)÷ 2 = 59 Ft.
Area = 800 x 59 = 47,200.00 S.F.
Sta. 1214+00 to 1214+25
Area = 25.0 x 53.5 = 1,337.50 S.F.

Total Item 301 T = 8" = 306,522.29 S.F.
Volume = 306,522.29 x 0.667 ÷ 27 = 7,572.24 C.Y.

Add Volume of 4" Step
Volume = [(884.46)(4)+(343.26)(2)+
(595.60)(2)+(15)(4)+(300)(4)+
(90)(3)+(170)(3)+(130)(2)+
(285)(3)+(2350)(4)](16) ÷
(144 x 27) = 73.95 C.Y.

* as per plan

CALCULATIONS

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

33

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

U.S.R. 62 & U.S.R. 62 SOUTHBOUND (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5) - Continued

T = 3"
Sta. 1100+00 to 1109+09.46
Area = 909.46 x 28 = 25,464.88 S.F.
Sta. 1110+84.42 to 1114+50, Rt.
Corr. L = 365.58 (3938.28÷3906.53) = 368.55 L.F.
Area = 368.55 x 14 = 5,159.70 S.F.
Sta. 1111+26.02 to 1117+50.00, Lt.
Corr. L = 623.98(3883.53÷3906.53) = 620.31 L.F.
Area = 620.31 x 14 = 8,684.34 S.F.
Sta. 1180+85 to 1184+00
Area = 315 x 26 = 8,190.00 S.F.
Sta. 1184+00 to 1186+37.73 (Median Taper)
Area = 237.72 x 22 = 5,229.84 S.F.
Sta. 1186+37.72 to 1186+60 (Centerline)
Area = 22.28 x 4.0 = 89.12 S.F.
Sta. 1186+37.72 to 1186+72.75 (Lt. Shld.)
Area = 35.03 x 8.0 = 280.24 S.F.
Sta. 1187+67.39 to 1188+21.48, Rt.
Area = 54.09 x 8 = 432.72 S.F.
Sta. 1187+90 to 1188+21.48 Centerline
Area = 31.48 x 4 = 125.92 S.F.
Sta. 1188+21.48 to 1190+75
Area 253.52 x 20 = 5,070.40 S.F.
Sta. 1190+75 to 1203.31.66
Area = 1256.66 x 24 = 30,159.84 S.F.
Sta. 1203+31.66 to 1204+21
Area = 89.34 x 19.0 = 1,697.46 S.F.
Sta. 1204+16 to 1205+26.69
Area = 110.69 x 16.0 = 1,771.04 S.F.
Sta. 1205+26.69 to 1206+52.16
Area = 125.46 x 8.0 = 1,003.68 S.F.
Sta. 1206+52.15 to 1214+25
Area = 772.85 x 16.0 = 12,365.60 S.F.
Sta. 1214+25 to 1215+00, Rt.
Area = 75 x 8.0 = 600.00 S.F.

Total Item 301 T = 3" = 106,324.78 S.F.
Volume = 106,324.78 x 0.250 ÷ 27 = 984.49 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5) = 8,630.68 C.Y.

ITEM 304 - AGGREGATE BASE - (U-202(5)

(For Corr. L's See Item 301 3")

Sta. 1100+00 to 1109.09.46
Area = 909.46 x 27 + 25 x 10 = 24,580.42 S.F.
Sta. 1110+84.42 to 1114+50, Rt.
Corr. L = 368.55 L.F.
Area = 368.55 x 13.5 + 25 x 0.5 = 4,987.93 S.F.
Sta. 1111+26.02 to 1117+50, Lt.
Corr. L = 620.31 L.F.
Area = 620.31 x 13.5 + 25 x 0.5 = 8,386.69 S.F.
Sta. 1180+85 to 1184+00
Area = 315 x 25 = 7,875.00 S.F.
Sta. 1184+00 to 1184+90 (Median Taper)
Area = 90 x 21.25 = 1,912.50 S.F.
Sta. 1184+90 to 1186+37.72
Area = 147.72 x 17.50 = 2,585.10 S.F.
Sta. 1186+37.72 to 1186+72.75, Lt.
Area = 35.03 x 7.75 = 271.48 S.F.
Sta. 1187+67.39 to 1189+80, Rt.
Area = 212.61 x 7.75 = 1,647.73 S.F.
Sta. 1188+21.48 to 1189+80, Lt.
Area = 158.52 x 7.75 = 1,228.53 S.F.
Sta. 1189+80 to 1190+75
Area = 95 x 19.75 = 1,876.25 S.F.

ITEM 304 - AGGREGATE BASE - (U-202(5) - Continued

Sta. 1190+75 to 1203+31.66
Area = 1256.66 x 23.0 = 28,903.18 S.F.
Sta. 1203+31.66 to 1203+57
(Begin. of Recovery Taper)
Avg. W = 19.0 Ft.
Area = 25.34 x 19.0 = 481.46 S.F.
Sta. 1203+57 to 1205+26.69
Area = 169.69 x 15.50 = 2,630.20 S.F.
Sta. 1205+26.69 to 1214+25.0, Lt.
Area = 898.31 x 7.75 = 6,961.90 S.F.
Sta. 1206+52.15 to 1215+00, Rt.
Area = 847.85 x 7.75 = 6,570.84 S.F.

Total Item 304 - T = 6" = 100,899.21 S.F.
Volume = 100,899.21 x 0.5 ÷ 27 = 1,868.50 C.Y.
Deduct ½ of 4" Step (See Item 301)
Volume = (73.95÷2)-(129.67+148.73+125.46)(16÷144)÷27 = - 35.32 C.Y.

ITEM 304 - AGGREGATE BASL - (U-202(5) = 1,833.18 C.Y.

ITEM 310 - SUBBASE - (U-202(5)

Area 310 Beneath Shoulders = Area 304
Area = 100,899.21 S.F.
Avg. T = (6+3)÷ 2 = 4.5 In. = 0.375 Ft.
Volume = 100,899.21 x 0.375 ÷ 27 = 1,401.38 C.Y.
Area 310 Beneath Pavement = Area 301 (8")
Area = 306,522.29 S.F.
T = 4"
Volume = 306,522.29 x 0.333 ÷ 27 = 3,780.44 C.Y.
Area Under Approach Slabs @ Stelzer
Area = 3 x 25 x 36 + 25 x 37 = 3,625.00 S.F.
T = 6"
Volume = 3,625 x 0.50 ÷ 27 = 67.13 C.Y.
Deudct ½ of 4" Step (See Item 304) = 35.32 C.Y.

ITEM 310 - SUBBASE - (U-202(5) = 5,213.63 C.Y.
(Quantity carried to Item 310 Under Curbs & Medians)

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - (U-202(5)

Area 402 = Area 301(8") + Area 304 - Area 301(3") - Area 612 Concrete Median (Uncurbed)
Item 612 - Concrete Median (Uncurbed) -(U-202(5)
Sta. 1184+90 to 1185+25
Avg. W = (6.24+4)÷2 = 5.12 Ft.
Area = 35.0 x 5.12 = 179.20 S.F.
Sta. 1185+25 to 1186+62
Area = 4 x 135.0+(3.1416 x 2 x 2 ÷2) = 546.28 S.F.
Sta. 1187+88 to 1189+50
Area = 4 x 160+(3.1416 x 2 x 2÷2) = 646.28 S.F.
Sta. 1189+50 to 1189+80
Area = ((5.92+4.00)÷2) x 30.0 = 148.80 S.F.
Sta. 1203+57 to 1205+50
Area = ((7.01+3.0)÷2)x 103.0+3.0(88.50)+3.1416 x 1.5 x 1.5 ÷ 2 = 784.55 S.F.
Sta. 1206+40 to 1215+56.79
Area = 3.1416 x 1.5 x 1.5 ÷ 2 + 915.29 x 3.0 = 2,749.40 S.F.

ITEM 612 - CONCRETE MEDIAN (UNCURBED) - (U-202(5) = 5,054.51 S.F.

Area 402 = 306,522.29+100,899.21-106,324.78-5,054.51 = 296,042.21 S.F.
T = 1-3/4"
Volume = 296,042.21 x (1.75÷12)÷ 27 = 1,598.99 C.Y.

ITEM 402 - ASPHALT CONCRETE, T= 1-3/4"(U-202(5) = 1,598.99 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1¼" (U-202(5)

Area 404 - Area 402 = 296,042.21 S.F.
Volume = 296,042.21 x (1.25÷12)÷ 27 = 1,142.14 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1¼" (U-202(5) = 1,142.14 C.Y.

ITEM 409 SEAL COAT - (U-202(5)

Area 409 = Area 301 (3") = 106,324.78 S.F.
Cover Aggregate
Volume = (106,324.78÷9) x 0.008 = 94.51 C.Y.
Bituminous Material
Volume = (106,324.78÷9) x 0.30 = 3,544.16 GAL.

ITEM 409 SEAL COAT - (U-202(5) - COVER AGGREGATE = 94.51 C.Y.

ITEM 409 SEAL COAT - (U-202(5) - BITUMINOUS MATERIAL* = 3,544.16 GAL.

ITEM 605 - AGGREGATE DRAINS (U-202(5)

Sta. 1100+00 to 1109+00
37 @ 13 L.F. = 481 L.F.
Sta. 1111+00 to 1114+50
15 @ 15 L.F. = 225 L.F.
Sta. 1114+50 to 1117+50
12 @ 16 L.F. = 192 L.F.
Sta. 1180+85 to 1183+00
10 @ 16 L.F. = 160 L.F.
Sta. 1194+00 to 1204+00
23 @ 14 L.F. = 322 L.F.
Sta. 1210+50 to 1214+00
18 @ 18 L.F. = 324 L.F.

ITEM 605 - AGGREGATE DRAINS (U-202(5) = 1,704 L.F.

ITEM 611 REINFORCED CONCRETE APPROACH SLABS (U-202(5)

Area (See Item 310) = 3,625 S.F.
Area = 3,625 ÷ 9 = 402.78 C.Y.

ITEM 611 REINFORCED CONCRETE APPROACH SLABS (U-202(5) = 402.78 C.Y.

CURBS & MEDIANS (U-202(5)

ITEM 310 - SUBBASE

Sta. 1100+00 to 1109+09.46
T = 1.0 Ft.
Area = 909.46 x 4 = 3,637.48 S.F.
Sta. 1111+05.22 to 1114+50
T = 1.0 Ft.
Corr. L = 344.78(3911.53÷3906.53)= 345.22 L.F.
Area = 345.22 x 4.0 = 1,380.88 S.F.
Sta. 1114+50 to 1117+48
Avg. T = 1.5 Ft.
Corr. L = 298.0(3921.53÷3906.53)= 299.14 L.F.
Area = 299.14 x 8.5 = 2,542.69 S.F.
Sta. 1180+85 to 1184+00
Avg. T = 1.5 Ft.
Area = 315 x 11 = 3,465.00 S.F.
Sta. 1184+00 to 1184+90 (Taper @ Stygler)
Avg. W = (11+5)÷2 = 8 Ft.
Avg. T = 1.5 Ft.
Area = 90 x 8 = 720.00 S.F.
Sta. 1189+80 to 1190+75 (Taper @ Stygler)
Avg. W = (11+5)÷ 2 = 8 Ft.
Avg. T = 1.5 Ft.
Area = 95 x 8 = 760.00 S.F.

* as per plan

CALCULATIONS

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA-270-23.39 N
FRA-62-20.83

CURBS & MEDIANS (U-202(5) - Continued

ITEM 310 - SUBBASE (Continued)

Sta. 1190+75 to 1196+20.66
(To Begin. of Taper)
Avg. T = 1.5 Ft.
Area = 545.06 x 11 = 6,002.26 S.F.

Sta. 1196+20.66 to 1203+31.66
(Median Taper 20' to 16')
Avg. W = (11+7) ÷ 2 = 9 Ft.
Avg. T = 1.5 Ft.
Area = 711 x 9 = 6,399.00 S.F.

Sta. 1203+31.66 to 1203+57
(Taper @ Ridenour)
Avg. W = (7+6) ÷ 2 = 6.5 Ft.
Avg. T = 1.5 Ft.
Area = 25.34 x 6.5 Ft. = 164.71 S.F.

Area At 1' Thick = 5,018.72 S.F.
Area At 1.5' Thick = 20,053.66 S.F.
Volume (5018.72 x 1 + 20,053.66 x 1.5) ÷ 27 = 1,299.97 C.Y.
From 310 (3") and 310 (3") = 5,213.63 C.Y.

Total Volume = 6,513.60 C.Y.

ITEM 310 SUBBASE (U-202(5) = 6,513.60 C.Y.

ITEM 609 - TYPE 6 CURB (U-202(5)

Sta. 1114+50 to 1117+48
(See Item 310 Above)
Corr. L = 2 x 299.14 = 598.28 L.F.

Sta. 1180+85 to 1184+90
L = 2 x 405 = 810.00 L.F.

Sta. 1189+80 to 1203+57
L = 2 x 1377 = 2,754.00 L.F.

Sta. 1205+75 to 1214+25, Lt.
L = = 850.00 L.F.

Sta. 1206+52.15 to 1215+00, Rt.
L = = 847.45 L.F.

Deduct For Inlets
L = ((11.33)+(4)(7.33)+(3)(9.33)) = - 68.64 L.F.

ITEM 609 - TYPE 6 CURB (U-202(5) = 5,791.49 L.F.

ITEM 612 - CONCRETE MEDIAN (U-202(5)

Sta. 1100+00 to 1114+50
Corr. L = 1,254.68 L.F. (See Item 310)
W = 4 Ft.
T = 9"
Area = 1254.68 x 4 = 5,018.72 S.F.

Sta. 1114+50 to 1117+48
Avg. W = (3.0+14.0) ÷ 2 = 8.5 Ft.
T = 4"
Area = 298 x 8.5 = 2,533.00 S.F.

Sta. 1180+85 to 1184+00
T = 4"
Area = 315 x 11 = 3,465.00 S.F.

Sta. 1184+00 to 1184+90
Avg. W = (11+5) ÷ 2 = 8 Ft.
T = 4"
Area = 8 x 90 = 720.00 S.F.

Sta. 1184+90 to 1189+80
See Item 402
T = 9"
Area = 179.20 + 546.28 + 646.28 + 148.80 = 1,520.56 S.F.

Sta. 1189+80 to 1190+75
T = 4"
Area (See Item 310) = 760.00 S.F.

ITEM 612 - CONCRETE MEDIAN (U-202(5) - Continued

Sta. 1190+75 to 1196+20.06
T = 4"
Area (See Item 310) = 6,002.26 S.F.

Sta. 1196+20.66 to 1203+31.66
T = 4"
Area = (See Item 310) = 6,399.00 S.F.

Sta. 1203+31.06 to 1203+57
T = 4"
Area = (See Item 310) = 164.71 S.F.

Sta. 1203+57 to 1215+56.79
T = 9"
Area = (See Item 402) = 3,533.95 S.F.

Deduct For Inlets
T = 4"
Area = [(11.33+(4)(7.33)+9.33]x 2.83 = - 141.44 S.F.
T = 9"
Area = (15.33 x 4)+2(7.33 x 3.33) = - 110.13 S.F.

Area (T = 4") = 19,902.53 S.F.
Area (T = 9") = 9,963.10 S.F.
Volume = (19,02.53 x 0.333 + 9,963.10 x 0.75) ÷ 27 = 522.84 C.Y.

ITEM 612 - CONCRETE MEDIAN (U-202(5) = 522.84 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. 1117+50 to 1124+00
Corr. L = 650(3891.53÷3906.53) = 647.50 L.F.
Avg. W = (51.5+64.5) ÷ 2 = 58.0 Ft.
Area = 647.50 x 58.0 = 37,555.00 S.F.

Sta. 1124+00 to 1130+50
(2 Lanes & Ramp K Exit)
Area = 650 x 24.5 = 15,925.00 S.F.
Area (By Plan.) = 4,240.00 S.F.
Corr. L = 450(3825.72÷3819.72)= 450.71 L.F.
Area = 450.71 x 12 = 5,408.52 S.F.

Sta. 1130+50 to 1130+80
Area = 30 x 36.5 = 1,095.00 S.F.

Sta. 1130+80 to 1136+00
(Ramp G Taper)
Area = 520 x (49.5+36.5) ÷ 2 = 22,360.00 S.F.

Sta. 1136+00 to 1143+11.03
Area = 711.03 x 24.5 = 17,420.24 S.F.

Sta. 1143+11.03 to 1146+00
(Ramp F & SB)
Area = 288.97 x 41 = 11,847.77 S.F.

Sta. 1146+00 to I-270 Bridge
Area (By Plan.) = 941.50 S.F.

Sta. 1150+60.8 to 1154+25, Lt.
(Third Lane)
Corr. L = 264.2(2339.83÷2291.83) = 269.73 L.F.
Area = 269.73 x 12.0 = 3,236.76 S.F.
Area (By Plan.) = 602.00 S.F.

Sta. 1150+41.0 to 1163+13.5
Corr. L = 1272.5(2303.33÷2291.83) = 1278.88 L.F.
W = 41.0 Ft.
Area = 1278.88 x 41.0 = 52,434.28 S.F.

Sta. 1163+13.5 to 1166+20
(Assume Curve to 1166+20)
Corr. L = 306.5(2303.33÷2291.83) = 308.04 L.F.
Area = 308.04 x 41.0 = 12,629.52 S.F.

Sta. 1163+13.5 to 1166+00.51, Lt.
(Ramp A Accel.)
Corr. L = 293.30(3912.53÷3906.53) = 293.75 L.F.
Area = 293.75 x 12.0 = 3,525.00 S.F.
Area (By Plan.) = 2,568.00 S.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Sta. 1166+00.51 to 1171+25, Lt.
Area = 424.49 x 12.0 + 100 x 12 ÷ 2 = 5,693.88 S.F.

Sta. 1166+20 to 1171+00
(Ramp F & SB)
Area = 480 x 41 = 19,680.00 S.F.

Sta. 1171+00 to 1180+85 (50:1 Taper)
Avg. W = 81-(985÷50) = 71.15 Ft.
Area = 985 x 71.15 = 70,082.75 S.F.

Total Item 301 T = 8" = 287,245.22 S.F.
Volume = 287,245.22 x 0.667 ÷ 27 = 7,096.02 C.Y.

Add Volume of 4" Step
Volume = ((647.5 + 450.71 + 30 + 520 + 711.03)(2)+(288.97 + 20.1 + 1278.88 + 308.04 + 480 + 985)(4))(16÷144) ÷ 27= 74.74 C.Y.

T = 3"
Sta. 1117+50 to 1124+00, Lt.
(Out. Shld.)
Corr. L = 650(3858.53÷3906.53) = 642.01 L.F.
Area = 642.01 x 8 = 5,136.08 S.F.

Sta. 1117+50 to 1118+48, Rt.
Corr. L = 98.0(3916.53÷3906.53) = 98.25 L.F.
Area = 98.25 x (6+4) ÷ 2 = 491.25 S.F.

Sta. 1118+48 to 1124+00
Corr. L = 443.94 (3922.03÷3906.53)÷ 108.06 = 553.76 L.F.
Area = 553.76 x 4 = 2,215.04 S.F.

Sta. 1124+00 to 1126+00
Area = 200 x 12 = 2,400.00 S.F.

Sta. 1126+00 to 1130+50
Area = 450 x 4 = 1,800.00 S.F.
Corr. L = 450(3815.72÷3819.72) = 449.53 L.F.
Area = 449.53 x 8 = 3,596.24 S.F.

Sta. 1130+50 to 1136+00
Area = 550 x 12 = 6,600.00 S.F.

Sta. 1136+00 to 1137+50
Area = 12 x150 = 1,800.00 S.F.
Area (By Plan.) = 728.00 S.F.

Sta. 1137+50 to 1143+11.03
Area = 561.03 x 12.0 = 6,732.36 S.F.

Sta. 1143+11.03 to 1146+00
Area = 288.97 x 22 = 6,357.34 S.F.

Sta. 1146+00 to I-270 Bridge
Area (By Plan.) = 1,050.00 S.F.

Sta. 1150+19.3 to 1153+25
Corr. L = 305.7(2309.73÷2291.83) = 308.09 L.F.
Area = 308.09 x 22.0 = 6,777.91 S.F.

Sta. 1153+25 to 1154+25, Lt.
Corr. L = 100(2342.33÷2291.83) = 102.20 L.F.
Area = 102.20 x 8.0 = 817.62 S.F.

Sta. 1154+25 to 1163+13.5, Lt.
Corr. L = 888.5(2333.83÷2291.83) = 904.78 L.F.
Area = 904.78 x 8 = 7,238.24 S.F.

Sta. 1153+25 to 1166+20
Corr. L = 1295.0(2281.83÷2291.83) = 1289.35 L.F.
Area = 1289.35 x 14.0 = 18,050.90 S.F.

Sta. 1163+13.5 to 1166+00.51, Lt.
(Ramp A Shld.)
Corr. L = 293.30(3902.53÷3906.53) = 293.00 L.F.
Area = 293 x 8 = 2,344.00 S.F.

CALCULATIONS

CALC: SAS 8-69
CHK: RCH 9-69

FRANKLIN COUNTY
FRA 270-20.39 N
FRA 62-20.93

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Sta. 1166+00.51 to 1166+20, Lt.
Corr. L = 19.49(2342.83÷2291.83) = 19.92 L.F.
Area = 19.92 x 8 = 159.38 S.F.
Sta. 1166+20 to 1171+00
Area = 480 x 22 - 361.0 x 1.0 ÷ 2 = 10,379.50 S.F.
Sta. 1171+00 to 1180+85
Area = 985 x 26 = 25,610.00 S.F.

Total Item 301 T = 3" = 110,283.86 S.F.
Volume = 110,283.86 x 0.250 ÷ 27 = 1,021.15 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 8,191.91 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's See Item 301 (3"))

Sta. 1117+50 to 1124+00, Lt. Shld.
Corr. L = 541.94(3858.53÷3906.53)+108.06 = 643.34 L.F.
Area = 643.34 x 7.75 = 4,985.89 S.F.
Sta. 1117+50 to 1118+48.0, Rt.
Corr. L = 98.25 L.F.
Avg. W = (5.75+3.75)÷ 2 = 4.75 Ft.
Area = 98.25 x 4.75 = 466.69 S.F.
Sta. 1118+48.0 to 1124+00, Rt.
Corr. L = 443.94(3922.03÷3906.53)+108.06 = 553.76 L.F.
Area = 553.76 x 3.75 = 2,076.60 S.F.
Sta. 1124+00 to 1126+00
Area = 200 x 11.5 = 2,300.00 S.F.
Sta. 1126+00 to 1130+50
Area = 450 x 3.75 = 1,687.50 S.F.
Corr. L = 449.53 L.F. (Shld @ Ramp K Decel)
Area = 449.53 x 7.75 = 3,483.86 S.F.
Sta. 1130+50 to 1143+11.03 (Ramp G Taper)
Area = 1261.03 x 11.50 = 14,501.84 S.F.
Area (By Plan.) = 728.00 S.F.
Sta. 1143+11.03 to 1146+36.48
L = 288.97 L.F. (To 1146+00)
Area = 288.97 x 21 = 6,068.37 S.F.
Area (By Plan.) = 1,050.00 S.F.
Sta. 1150+19.3 to 1153+25, Lt.
Corr. L = 308.09 L.F.
Area = 308.09 x 21.0 + 25.0 x 1.0 = 6,494.89 S.F.
Sta. 1153+25 to 1154+25, Lt.
Corr. L = 102.20 L.F.
Area = 102.20 x 7.75 = 792.05 S.F.
Sta. 1154+25 to 1163+13.5 Lt.
Area = 914.78 x 7.75 = 7,012.04 S.F.
Sta. 1153+25.0 to 1166+20
Corr. L = 1289.35 L.F.
Area = 1289.35 x 13.25 = 17,083.89 S.F.
Sta. 1163+13.5 to 1166+00.51, Lt.
(Ramp A Shld.)
Corr. L = 293.00 L.F.
Area = 293 x 7.75 = 2,270.75 S.F.
Sta. 1166+00.51 to 1166+20
Corr. L = 19.92 L.F.
Area = 19.92 x 7.75 = 154.38 S.F.
Sta. 1160+20 to 1171+00
Area = 480 + 21 = 361 x 1.0 ÷ 2 = 9,899.50 S.F.
Sta. 1171+00 to 1180+85
Area = 985 x 25 = 24,625.00 S.F.

Total Item 304 T = 6" = 105,681.25 S.F.
Volume = 105,681.25 x 0.50 ÷ 27 = 1,957.06 C.Y.
Deduct ¼ of 4" Step (See Item 301) = - 37.37 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 1,919.69 C.Y.

ITEM 310 SUBBASE - RURAL

Area 310 Beneath Shlds. = Area 304
Area = 105,681.25 S.F.
Avg. T = ([(6+3)÷2]7.75+6(3.75))÷(11.5 x 12) = 0.42 Ft.
Volume = 105,681.25 x 0.42 ÷ 27 = 1,643.93 C.Y.
Area 310 Beneath Pav't. = Area 301 (8")
Area = 287,245.22 S.F.
T = 4"
Volume = 287,245.22 x 0.333 ÷ 27 = 3,542.69 C.Y.
Area Beneath Approach Slabs
Area = 2 x 16 x 25 ÷ 24 x 25 + 36 x 25 = 2300.00 S.F.
T = 6"
Volume = 2300 x 0.50 ÷ 27 = 42.59 C.Y.
Deduct ¼ of 4" Step (See Item 301) = - 37.37 C.Y.

ITEM 310 SUBBASE - RURAL = 5,191.84 C.Y.
(Quantity Carried to Item 310 Under Curbs & Medians)

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 301 (8") + Area 304 - Area 301 (3")
Area = 287,245.22 + 105,681.25 - 110,283.86 = 282,642.61 S.F.
Volume = 282,642.61 x (1.75 ÷ 12) ÷ 27 = 1,526.62 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL = 1,526.62 C.Y.

ITEM 404 ASPHALT CONCRETE, T = 1¼" - RURAL

Area 404 = Area 402 = 282,642.61 S.F.
Volume = 282,642.61 x (1.25÷12) ÷ 27 = 1,090.44 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1¼" - RURAL = 1,090.44 C.Y.

ITEM 409 - SEAL COAT - RURAL

Area = Area 301 (3") = 110,283.86 S.F.
Cover Aggregate
Volume = (110,283.86 ÷ 9) x 0.008 = 98.03 C.Y.
Bituminous Material
Volume = (110,283.86 ÷ 9) x 0.30 = 3,676.13 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 98.03 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* = 3,676.13 GAL.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. 1117+50 to 1119+00
7 @ 16 L.F. = 112 L.F.
Sta. 1132+50 to 1136+00
15 @ 21 L.F. = 315 L.F.
Sta. 1142+00 to 1146+00
15 @ 21 L.F. = 315 L.F.
Sta. 1150+00 to 1153+00
11 @ 16 L.F. = 176 L.F.
Sta. 1170+75 to 1177+00
13 @ 16 L.F. = 208 L.F.
Sta. 1177+00 to 1180+85
13 @ 16 L.F. = 208 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 1,334 L.F.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL

T = 13"
Area (See Item 310) = 2300.00 S.F.
Area = 2300 ÷ 9 = 255.56 S.Y.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL = 255.56 S.Y.

CURBS & MEDIANS

ITEM 310 - SUBBASE - RURAL

Sta. 1143+11.03 to 1146+43
Avg. T = 1.5 Ft.
Volume = 331.97 x 11 x 1.5 = 5,477.50 C.F.
Sta. 1150+12 to 1166+86
Corr. L - 1674(2295.83÷2291.83) = 1676.92 L.F.
Avg. T = 1.5 Ft.
Volume = 1676.92 x 11 x 1.5 = 27,669.18 C.F.
Sta. 1166+86 to 1180+85
Avg. T = 1.5 Ft.
Volume = 1399 x 11 x 1.5 = 23,083.50 C.F.

Total Item 310 = 56,230.18 C.F.
Volume = 56,230.18 ÷ 27 = 2,082.60 C.Y.
From 310 (8") and 310 (3") = 5,191.84 C.Y.

ITEM 310 - SUBBASE - RURAL = 7,274.44 C.Y.

ITEM 609 - TYPE 6 CURB - RURAL

Sta. 1143+11.03 to 1146+43
L = 331.97 L.F.
Sta. 1150+12 to 1166+86
Corr. L (See Item 310) = 1,676.92 L.F.
Sta. 1166+86 to 1180+85
L = 1,399.00 L.F.

Total Length = 2 x 3407.89 = 3,407.89 L.F.
Deduct For Inlets = 6,815.78 L.F.
L = 2 x 9.33 + 4 x 7.33 = - 47.98 L.F.

ITEM 609 - TYPE 6 CURB - RURAL = 6,767.80 L.F.

ITEM 612 - CONCRETE MEDIAN - RURAL

Sta. 1143+11.03 to 1180+85
L (See Item 609) = 3407.89 L.F.
W = 11 Ft.
T = 4"
Volume = 3407.89 x 11 x 0.333 ÷ 27 = 462.34 C.Y.
Deduct for Inlets
Volume = (47.98 x 2.83)(4)÷(12 x 27) = - 1.68 C.Y.

ITEM 612 - CONCRETE MEDIAN - RURAL = 460.66 C.Y.

U.S.R. 62 NORTHBOUND

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5))

T = 8"
Sta. 1114+50 to 1120+00
Area = 550 x 36.5 = 20,075.00 S.F.
Sta. 1120+00 to 1123+37.05 (Taper)
(Assume 2/3 Tangent)
Avg. W = (61.5+53.08) ÷ 2 = 57.29 Ft.
Area = 337.05 x 57.29 = 19,309.59 S.F.

* as per plan

CALCULATIONS

FED. RD DIVISION	STATE	PROJECT	SHEET
2	OHIO		

30

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

U.S.R. 62 NORTHBOUND (Continued)

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5) - Continued

Sta. 1123+37.05 to 1125+20
Avg. W = (53.08+48.5) ÷ 2 = 57.79 Ft.
Corr. L = 182.95(2875.29÷2864.79) = 183.62 L.F.
Area = 183.62 x 50.79 = 9,326.06 S.F.
Sta. 1125+20 to 1128+55
Corr. L = 335(2876.79÷2864.79) = 336.40 L.F.
Area = 336.40 x 48.50 = 16,315.40 S.F.

Total Item 301 T = 8" = 65,026.05 S.F.

Volume = 65,026.05 x 0.667 ÷ 27 = 1,605.58 C.Y.

Add Volume of 4" Step
Volume = (550.00 + 337.05 + 183.62 + 336.40) (16 x 2) ÷ (144 x 27) = 11.58 C.Y.

T = 3"
Sta. 1114+50 ro 1117+48
Area = 14.0 x 298.0 = 4,172.00 S.F.
Sta. 1117+48 to 1118+48
Area = 100(6+4)÷ 2 + 8.0) = 1,300.00 S.F.
Sta. 1118+48 to 1120+00
Area = 152.0 x 12.0 = 1,824.00 S.F.
Area (By Plan.) = 744.00 S.F.
Sta. 1120+00 to 1123+37.05
Area = 337.05 x 12 = 4,044.60 S.F.
Sta. 1123+37.05 to 1128+55, Lt.
Corr. L = 517.95(2902.79÷2864.79) = 524.82 L.F.
Area = 524.82 x 4 = 2,099.28 S.F.
Sta. 1123+37.05 to 1124+37.05, Rt.
Corr. L = 100(2845.79÷2864.79) = 99.34 L.F.
Area = 99.34 x 8 = 794.72 S.F.
Sta. 1124+37.05 to 1125+20, Rt.
Corr. L = 82.95(2847.79÷2864.79) = 82.46 L.F.
Area = 82.46 x 8 = 659.68 S.F.
Sta. 1125+20 to 1128+55, Rt.
Corr. L = 335(2848.79÷2864.79) = 333.13 L.F.
Area = 333.13 x 8 = 2,665.04 S.F.

Total Item 301 T = 3" = 18,303.32 S.F.

Volume = 18,303.32 x 0.250 ÷ 27 = 169.48 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5) = 1,786.64 C.Y.

ITEM 304 - AGGREGATE BASE - (U-202(5)

(For Corr. L's See Item 301 (3"))

Sta. 1114+50 to 1117+48
Area = 298 x 13.5 = 4,023.00 S.F.
Sta. 1117+48 to 1118+48
Area = 100.00 x 12.5 = 1,250.00 S.F.
Sta. 1118+48 to 1120+00
Area = 152 x 11.5 = 1,748.00 S.F.
Area (By Plan.) = 744.00 S.F.
Sta. 1120+00 to 1123+37.05
Area = 337.05 x 11.50 = 3,876.08 S.F.
Sta. 1123+37.05 to 1128+55, Lt.
Corr. L = 524.82 L.F.
Area = 524.82 x 3.75 = 1,968.08 S.F.

ITEM 304 - AGGREGATE BASE - (U-202(5) - Continued

Sta. 1123+37.05 to 1124+37.05, Rt.
Corr. L = 99.34 L.F.
Area = 99.34 x 7.75 = 769.89 S.F.
Sta. 1124+37.05 to 1125+20, Rt.
Corr. L = 82.46 L.F.
Area = 82.46 x 7.75 = 639.06 S.F.
Sta. 1125+20 to 1128+55, Rt.
Corr. L = 333.13 L.F.
Area = 333.13 x 7.75 = 2,581.76 S.F.

Total Item 304 T = 6" = 17,599.87 S.F.
Volume = 17,599.87 x 0.50 ÷ 27 = 325.92 C.Y.
Deduct ½ of 4" Step (See Item 301) = - 5.79 C.Y.

ITEM 304 - AGGREGATE BASE - (U-202(5) = 320.13 C.Y.

ITEM 310 - SUBBASE - (U-202(5)

Area 310 Beneath Shoulders - Area 304
Area = 17,599.87 S.F.
Avg T = (6+3) ÷ 2 = 0.375 Ft.
Volume = 17,599.87 x 0.375 ÷ 27 = 244.44 C.Y.
Area 310 Beneath Pavement = Area 301 (8")
Area = 65,206.05 S. F.
T = 4"
Volume = 65,026.05 x 0.333 ÷ 27 = 801.99 C.Y.
Deduct ½ of 4" Step (See Item 301) = - 5.79 C.Y.

ITEM 301 SUBBASE - (U-202(5) = 1,040.64 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - (U-202(5)

Area 402 = Area 301 (8") + Area 304 - Area 301 (3")
Area = 65,026.05 + 17,599.87 - 18,303.32 = 64,322.60 S.F.
Volume = 64,322.60 x (1.75÷12)÷ 27 = 347.42 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - (U-202(5) = 347.42 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1½" - (U-202(5)

Item 404 = Area 402 = 64,322.60 S.F.
Volume = 64,322.60 x (1.25÷12) ÷ 27 = 248.16 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1½" - (U-202(5) = 248.16 C.Y.

ITEM 409 - SEAL COAT - (U-202(5)

Area = Area 301 (3") = 18,303.32 S.F.
Cover Aggregate
Volume = (18,303.32 ÷ 9) x 0.008 = 16.27 C.Y.
Bituminous Material
Volume = (18,303.32 ÷ 9) x 0.30 = 610.11 GAL.

ITEM 409 - SEAL COAT - (U-202(5) - COVER AGGREGATE = 16.27 C.Y.

ITEM 409 - SEAL COAT - (U-202(5) - BITUMINOUS MATERIAL* = 610.11 GAL.

ITEM 605 AGGREGATE DRAINS - (U-202(5)

Sta. 1117+50 to 1128+55
41 @ 17 L.F. = 697 L.F.

ITEM 605 - AGGREGATE DRAINS - U-202(5) = 697 L.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 8"
Sta. 1128+55 to 1130+17.75
Corr. L = 162.75(2876.79÷2864.79) = 163.43 L.F.
Area = 163.43 x 48.50 = 7,926.36 S.F.
Sta. 1130+17.75 to 1132+17.75
(2/3 Assumed Tangent)
Area = 200 x 48.5 = 9,700.00 S.F.
Sta. 1132+17.75 to 1138+11.72, Lt.
(2/3 Assumed Tangent)
Area = 437.25 x 36.25 ÷ 156.72 x 36.5 = 21,570.59 S.F.
Sta. 1132+17.75 to 1136+55, Rt.
Corr. L = 341.45(2870.79÷2864.79)+93.5 (1151.92÷1145.92) = 436.15 L.F.
Area = 436.15 x 12.25 = 5,342.84 S.F.
Area (By Plan.) = 4,920.00 S.F.
Sta. 1138+11.72 to 1140+72.36
Corr. L = 260.64(1476.67÷1494.67) = 257.50 L.F.
Area = 257.50 x 36.50 = 9,398.79 S.F.
Sta. 1140+72.36 to 1142+74
Avg. W = (12.25+15.0) ÷ 2 = 13.63 Ft.
Corr. L = 201.64(1487.86÷1494.67) = 200.72 L.F.
Area = 13.63 x 200.72 = 2,735.83 S.F.
Sta. 1140+72.36 to 1142+80, Lt.
Corr. L = 206.87(1261.24÷1273.24) = 204.92 L.F.
Area = 204.92 x 24.25 = 4,969.31 S.F.
Sta. D-1517+96 to D-1515+73.5
Corr. L = 222.5(1261.24÷1273.24) = 220.40 L.F.
Area = 220.40 x 24.5 = 5,344.70 S.F.
Area (By Plan.) = 3,564.00 S.F.
Sta. 1146+50.5 to 1148+99
Corr. L = 248.5(1482.67÷1494.67) = 246.50 L.F.
Area = 246.50 x 24.25 = 5,977.63 S.F.
Sta. 1148+99 to 1149+81.49
Corr. L = 82.49(1482.67÷1494.67) = 81.83 L.F.
Area = 81.83 x 24.5 = 2,004.84 S.F.
Sta. 1149+81.49 to 1153+38.01
(2/3 Assumed Tangent)
Area = 356.52 x 24.5 = 8,734.74 S.F.
Sta. 1153+38.01 to 1156+08.01
(Ramp C Accel.)
Avg. W = (49.5 + 42.75) ÷ 2 = 46.13 Ft.
Area = 270 x 46.13 = 12,455.10 S.F.
Sta. 1156+08.01 to 1163+38.01
(Taper)
Avg. W = (42.75 + 24.5)÷ 2 = 33.62 Ft.
Corr. L = 730(1153.11÷1145.92) = 734.58 L.F.
Area = 734.58 x 33.62 = 24,696.58 S.F.
Sta. 1163+38.01 to 1168+34.01
(2/3 Assumed Tangent)
Corr. L = 496(1157.92÷1145.92) = 501.19 L.F.
Area = 501.19 x 24.5 = 12,279.16 S.F.
Sta. 1168+34.01 to 1171+04.01
Area = 270 x 24.5 = 6,615.00 S.F.

Total Item 301 T = 8" = 148,671.62 S.F.
Volume = 148,671.62 x 0.667 ÷ 27 = 3,670.90 C.Y.

* as per plan

CALCULATIONS

CALC: SAS 8-69
CHK: RPH 9-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Add Volume of 4" Steps
Volume = (163.43 + 200.00 + 593.97 + 257.50 + 200.72 + 246.50 + 81.83 + 356.52 + 270.00 + 734.58 + 501.19 + 270.0) (16 x 2) ÷ (144 x 27) = 31.90 C.Y.

T = 3"
Sta. 1128+55 to 1130+17.75, Rt.
Corr. L = 162.75(2848.79÷2864.79) = 161.84 L.F.
Area = 161.84 x 8 = 1,294.72 S.F.
Sta. 1128+55 to 1130+17.75, Lt.
(Taper)
Corr. L = 162.75(2902.79÷2864.79) = 164.91 L.F.
Area = 164.91 x 4 = 659.64 S.F.
Sta. 1130+17.75 to 1132+17.75
Area = 200 x 12 = 2,400.00 S.F.
Sta. 1132+17.75 to 1136+55, Rt.
Corr. L = 341.45(2860.79÷2864.79)+ 93.50 (1141.92÷1145.92) = 434.15 L.F.
Area = 434.15 x 8 = 3,473.20 S.F.
Sta. 1132+17.75 to 1136+55, Lt.
Area = 437.25 x 4 = 1,749.00 S.F.
Sta. 1136+55 to 1138+11.72
Area = 156.72 x 14 = 2,194.08 S.F.
Sta. 1138+11.72 to 1143+08.5, Lt.
Corr. L = 260.64(1456.67÷1494.67)+ 236.14 (1247.24÷1273.24) = 485.33 L.F.
Area = 485.33 x 4 = 1,941.32 S.F.
Sta. 1138+11.72 to 1142+95, Rt.
Corr. L = 483.28(1499.67÷1494.67) = 484.90 L.F.
Area = 484.90 x 10 = 4,849.00 S.F.
Sta. 1146+17 to 1149+81.49, Rt.
Corr. L = 364.49(1499.67÷1494.67) = 365.71 L.F.
Area = 365.71 x 10 = 3,657.10 S.F.
Sta. 1146+54 to 1148+99, Lt.
Corr. L = 238.0(1247.24÷1273.24) = 233.14 L.F.
Area = 233.14 x 4 = 932.56 S.F.
Sta. 1148+99 to 1149+81.49, Lt.
Corr. L = 82.49(1468.67÷1494.67) = 81.06 L.F.
Area = 81.06 x 4 = 324.24 S.F.
Sta. 1149+81.49 to 1153+38.01
Area = 356.52 x 14 = 4,991.28 S.F.
Area (By Plan.) = (Ramp C Nose) = 656.00 S.F.
Sta. 1153+38.01 to 1156+04.68
(2/3 Assumed Tangent)
Area = 266.67 x 12 = 3,200.00 S.F.
Sta. 1156+04.68 to 1168+37.34, Lt.
Corr. L = 1232.66(1171.92÷1145.92) = 1260.63 L.F.
Area = 1260.63 x 4 = 5,042.52 S.F.
Sta. 1156+04.68 to 1162+58.01, Rt.
Corr. L = 653.33(1130.42÷1145.92) = 644.49 L.F.
Area = 644.49 x 8 = 5,155.92 S.F.
Sta. 1162+58.01 to 1163+38.01, Rt.
(Shld. Taper)
Area (By Plan.) = 744.00 S.F.
Sta. 1163+38.01 to 1168+37.34, Rt.
Corr. L = 499.33(1140.92÷1145.92) = 497.15 L.F.
Area = 497.15 x 10 = 4,971.50 S.F.
Sta. 1168+37.34 to 1171+04.01
Area = 266.67 x 14 = 3,733.38 S.F.
Area (By Plan.) = (Ramp F Nose) = 1,280.00 S.F.

Total Item 301 T = 3" = 53,249.46 S.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL (Continued)

Volume = 53,249.46 x 0.250 ÷ 27 = 493.05 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 4,195.88 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

(For Corr. L's, See Item 301 (3"))

Sta. 1128+55 to 1130+17.75, Lt.
(Taper)
Corr. L = 164.91 L.F.
Area = 164.91 x 3.75 = 618.41 S.F.
Sta. 1128+55 to 1130+17.75, Rt.
Corr. L = 161.84 L.F.
Area = 161.84 x 7.75 = 1,254.26 S.F.
Sta. 1130+17.75 to 1132+17.75
Area = 200 x 11.5 = 2,300.00 S.F.
Sta. 1132+17.75 to 1136+55, Rt.
Corr. L = 434.15 L.F.
Area = 434.15 x 7.75 = 3,364.66 S.F.
Sta. 1132+17.75 to 1136+55, Lt.
Area = 437.25 x 3.75 = 1,639.69 S.F.
Sta. 1136+55 to 1138+11.72
Area = 156.72 x 13.5 = 2,115.72 S.F.
Sta. 1138+11.72 to 1143+08.5 Lt.
Corr. L = 485.33 L.F.
Area = 485.33 x 3.75 + 25 x 0.25 = 1,826.24 S.F.
Sta. 1138+11.72 to 1142+95, Rt.
Corr. L = 484.90 L.F.
Area = 484.90 x 9.75 + 25 x 0.25 = 4,734.02 S.F.
Sta. 1146+17 to 1149+81.49, Rt.
Corr. L = 365.71 L.F.
Area = 365.71 x 9.75 + 25 x 0.25 = 3,571.92 S.F.
Sta. 1146+54 to 1148+99, Lt.
(Ramp D Exit)
Corr. L = 233.14 L.F.
Area = 233.14 x 3.75 + 25 x 0.25 = 880.52 S.F.
Sta. 1148+99 to 1149+81.49 Lt.
Corr. L = 81.06
Area = 81.06 x 3.75 = 303.98 S.F.
Sta. 1149+81.49 to 1153+38.01
Area = 356.52 x 13.50 = 4,813.02 S.F.
Area (By Plan.) Ramp C Nose = 656.00 S.F.
Sta. 1153+38.01 to 1156+04.68
(Taper)
Area = 266.67 x 11.5 = 3,066.70 S.F.
Sta. 1156+04.68 to 1168+37.34, Lt.
Corr. L = 1232.66 L.F.
Area = 1232.66 x 3.75 = 4,622.48 S.F.
Sta. 1156+04.68 to 1162+58.01, Rt.
Corr. L = 644.49 L.F.
Area = 644.49 x 7.75 = 4,994.80 S.F.
Sta. 1162+58.01 to 1163+38.01, Rt.
(Shld. Taper)
Area (By Plan.) = 744.00 S.F.
Sta. 1163+38.01 to 1168+37.34, Rt.
Corr. L = 497.15 L.F.
Area = 497.15 x 9.75 = 4,847.21 S.F.
Sta. 1168+37.34 to 1171+04.01
Area = 266.67 x 13.5 = 3,600.00 S.F.
Area (By Plan.)(Ramp F Nose) = 1,280.00 S.F.

Total Item 304 T = 6" = 51,233.63 S.F.
Volume = 51,233.63 x 0.50 ÷ 27 = 948.77 C.Y.
Deduct ½ of 4" Step (See Item 301) = - 15.95 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 932.82 C.Y.

ITEM 310 SUBBASE - RURAL

Area 310 Beneath Shlds. = Area 304
Area = 51,233.63 S.F.
Avg. T = (6+3) ÷ 2 = 4.5" = 0.375 Ft.
Volume = 51,233.63 x 0.375 ÷ 27 = 711.58 C.Y.
Area 310 (4") = Area 301 (8")
Area = 148,673.04 S.F.
T = 4"
Volume = 148,673.04 x 0.333 ÷ 27 = 1,833.63 C.Y.
Area Under Approach Slabs
T = 6"
Volume = 25 x(39.5+54) x 0.50 ÷ 27 = 43.29 C.Y.
Deduct ½ of 4" Step (See Item 301) = - 15.95 C.Y.

ITEM 310 SUBBASE - RURAL = 2,572.55 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL

Area 402 = Area 301 (8") + Area 304 - Area 301 (3")
Area = 148,673.04 + 51,233.63 - 53,249.46 = 146,657.21 S.F.
T = 1-3/4"
Volume = 146,657.21 x (1.75÷12) ÷ 27 = 792.13 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1-3/4" - RURAL = 792.13 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1¼" - RURAL

Area 404 = Area 402 = 146,657.21 S.F.
T = 1¼"
Volume = 146,657.21 x (1.25÷12)÷ 27 = 565.81 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1¼" - RURAL = 565.81 C.Y.

ITEM 409 SEAL COAT - RURAL

Area 409 = Area 301(3") = 53,249.46 S.F.
Cover Aggregate
Volume = (53,249.46 ÷ 9) x 0.008 = 47.33 C.Y.
Bituminous Material
Volume = (53,249.46 ÷ 9) x 0.30 = 1,774.98 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 47.33 C.Y.

ITEM 409 - SEAL COAT - RURAL - BITUMINOUS MATERIAL* = 1,774.98 GAL.

ITEM 605 AGGREGATE DRAINS - RURAL

Sta. 1128+55 to 1135+50
19 @ 17 L.F. = 323 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 323 L.F.

ITEM 611 - REINFORCED CONCRETE APPROACH SLABS - RURAL

T = 13"
Area = 25(39.5 + 54) ÷ 9 = 259.72 S.Y.

ITEM 611 REINFORCED CONCRETE APPROACH SLABS - RURAL = 259.72 S.Y.

* as per plan

CALCULATIONS

CALC: SAS 8-69
CHK: REH 9-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

AGLER ROAD

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

Sta. 16+50 to 16+75
  Area = (19.5+24.5) ÷ 2) 25 = 550.00 S.F.
Sta. 16+75 to 23+17.42
  Area = 642.42 x 24.5 = 15,739.29 S.F.
Sta. 28+37.25 to 34+00
  Area = 562.75 x 24.5 = 13,787.38 S.F.
Sta. 34+00 to 34+25
  Area = ((19.5+24.5) ÷ 2)25 = 550.00 S.F.
Area of Mifflin Blvd. Intersection
  Area = 120.8 x 50 - 3.1416 x 50 x 50 ÷ 2 = 2,113.00 S.F.
Correct for 3" Step
  Area = (3.1416(50)-120.8)0.25 = 9.07 S.F.

  Total Item 301 T = 6" = 32,748.74 S.F.
  Volume = 32,748.74 x 0.50 ÷ 27 = 606.45 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 606.45 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

T = 8"
Sta. 16+50 to 23+17.42
  Area = 2 x 667.42 x 4 = 5,339.36 S.F.
Sta. 28+37.25 to 34+25
  Area = 2 x 587.75 x 4 = 4,702.00 S.F.
Mifflin Blvd.
  Area = 104.68 - 120.8(4) = - 378.52 S.F.
Drives Lt.
  Area = (56+48+58+48+56+86+48+
    60+48)4 = - 2,224.00 S.F.
Drives Rt.
  Area = (50+48)4 = - 392.00 S.F.
Shoulders @ Bridge
  Area = 4 x 25 x 4 = 400.00 S.F.

  Total Item 304 T = 8" = 7,446.84 S.F.
  Volume = 7446.84 x (8÷12) ÷ 27 = 183.87 C.Y.

Deduct Volume of Step
  Volume = ((2 x 624.42+2 x 587.75 - 96 -
    2(56)-6(48)-58-86-50-60)
    3 x 5÷144) ÷ 27 = - 6.46 C.Y.

T = 4"
Sta. 16+50 to 16+75 &
  34+00 to 34+25
  Area = ((21.5+26.5)÷2)(25 x 25) = 1,200.00 S.F.
Sta. 16+75 to 23+17.42 &
  28+37.25 to 34+00
  Area = (642.42+562.75)26.5 = 31,937.01 S.F.
Area of Mifflin Blvd. Ints.
  (See Item 301) = 2,113.00 S.F.
Correct for 1 Foot Step
  Area = (3.1416(49.5)-120.8)1.0 = 34.71 S.F.

  Total Item 304 T = 4" = 35,284.72 S.F.
  Volume = 35,284.72 x (4÷12) ÷ 27 = 435.61 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 619.48 C.Y.

ITEM 310 SUBBASE - RURAL

Volume Under Approach Slabs (T = 6")
  Volume = 2 x 24 x 25 x 0.5 ÷ 27 = 22.22 C.Y.

ITEM 310 SUBBASE - RURAL = 22.22 C.Y.

ITEM 402 - ASPHALT CONCRETE - RURAL - T = 1½"

Sta. 16+50 to 16+75 &
  34+00 to 34+25
  Area = ((19+24)÷2)(25+25) = 1,075.00 S.F.
Sta. 16+75 to 23+17.42 &
  28+37.25 to 34+00
  Area = (642.42+562.75-43.0)24 = 27,892.08 S.F.
Area to Mifflin Blvd. Int.
  See Item 301 = 2,113.00 S.F.

  Total Item 402 = 32,616.08 S.F.
  Volume = (32,616.08 x 1.5)÷(12 x 27) = 151.00 C.Y.

ITEM 402 - ASPHALT CONCRETE - RURAL - T = 1½" = 151.00 C.Y.

ITEM 404 - ASPHALT CONCRETE - RURAL - T = 1½"

  Volume See Item 402 = 151.00 C.Y.

ITEM 404 - ASPHALT CONCRETE - RURAL - T = 1½" = 151.00 C.Y.

ITEM 408 - BITUMINOUS PRIME COAT - RURAL

Area See Item 304 (8") = 7,446.84 S.F.
  Volume = 7,446.84÷9)0.40 = 330.97 GAL.

ITEM 408 - BITUMINOUS PRIME COAT - RURAL = 330.97 GAL.

ITEM 409 - SEAL COAT - RURAL

Area 409 See Item 408 = 7,446.84 S.F.
  Cover Aggregate
  Volume = 7446.84÷9).008 = 6.62 C.Y.
  Bituminous Material
  Volume = (7446.84÷9)0.30 = 248.23 GAL.

ITEM 409 - SEAL COAT - RURAL - COVER AGGREGATE = 6.62 C.Y.

ITEM 409 - SEAL COAT - RURAL -
  BITUMINOUS MATERIAL = 248.23 GAL.

ITEM 611 - REINFORCED CONC. APPROACH SLABS - RURAL

T = 13"
  Area = 2 x 25 x 24 ÷ 9 = 133.33 S.Y.

ITEM 611 - REINFORCED CONC. APPROACH SLABS -
  RURAL - T = 13" = 133.33 S.Y.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. 16+50 to 25+25
  28 @ 17.5 Ft. = 490 L.F.
Sta. 28+25 to 34+25
  25 @ 17.5 Ft. = 437.5 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 927.5 L.F.

MIFFLIN BOULEVARD

Sta. 0+62 to 1+75
Sta. 25+35 to 38+45
  L = 1423.00 L.F. (Full Width)
Genessee Avenue
  Pav't. Area = ((20 x 58) - (3.1416÷2)
    (400)) = 531.68 S.F.
Earl Avenue
  Pav't. Area = ((20 x 52) - (3.1416÷2)
    (400)) = 411.68 S.F.
Emmons Avenue
  Pav't. Area = ((40 x 12)+(20 x 40) -
    (3.1416÷2)(400)) = 651.68 S.F.
Missouri Avenue
  Pav't. Area = ((20 x 54)-(3.1416÷2)
    (400)) = 451.68 S.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL

T = 5"
W = 21 Ft.
Area = 1423 x 21 = 29,883.00 S.F.
Sta. 1+75 to 2+00, Taper
  Area = 25 x (21+19)÷ 2 = 500.00 S.F.
Sta. 38+45 to 38+75, Taper
  Area = 30 x (21+17)÷ 2 = 570.00 S.F.
Genessee Avenue
  Area = 531.68+(20 x 3.1416-58)(0.5) = 534.10 S.F.
Earl Avenue
  Area = 411.68+(20 x 3.1416-52)(0.5) = 417.10 S.F.
Emmons Avenue
  Area = 651.68+(40-52+20 x 3.1416)(0.5) = 677.10 S.F.
Missouri Avenue
  Area = 451.68+(20 x 3.1416-54)(0.5) = 456.10 S.F.

  Total Item 301 T = 5" = 33,037.40 S.F.
  Volume = 33,037.40 x 0.417 ÷ 27 = 510.24 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - RURAL = 510.24 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL

Area = 1423 x 22 = 31,306.00 S.F.
Sta. 1+75 to 2+00 &
  38+45 to 38+75
  Area = 525+ 600 = 1,125.00 S.F.
Gennessee Avenue
  Area = 531.68+(20 x 3.1416-58)(1.0) = 536.52 S.F.
Earl Avenue
  Area = 411.68+(20 x 3.1416-52)(1.0) = 422.52 S.F.
Emmons Avenue
  Area = 651.68+(20 x 3.1416+40-52)(1.0) = 702.52 S.F.
Missouri Avenue
  Area = 451.68+(20 x 3.1416-54)(1.0) = 460.52 S.F.

  Total Item 304 T = 3" = 34,553.08 S.F.
  Volume = 34,553.08 x 0.25 ÷ 27 = 319.94 C.Y.

ITEM 304 - AGGREGATE BASE - RURAL = 319.94 C.Y.

ITEM 402 - ASPHALT CONCRETE - T = 1½" - RURAL

Area = 1423 x 20 = 28,460.00 S.F.
Sta. 1+75 to 2+00 &
  38+45 to 38+75
  Area = 475+540 = 1,015.00 S.F.
Gennessee Avenue - Area = 531.68 S.F.
Earl Avenue - Area = 411.68 S.F.
Emmons Avenue - Area = 651.68 S.F.
Missouri Avenue - Area = 451.68 S.F.

  Total Item 402 T = 1½" = 31,521.72 S.F.
  Volume = 31,521.72 x (1.5÷12)÷ 27 = 145.93 C.Y.

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

39

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC: SAS 8-69
CHK: REH 1-69

ITEM 402 - ASPHALT CONCRETE - T = 1½" - RURAL (Continued)

ITEM 402 - ASPHALT CONCRETE - T = 1½" - Rural = 145.93 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1½" - RURAL

Volume 404 = Volume 402 = 145.93 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1½" - RURAL = 145.93 C.Y.

ITEM 605 - AGGREGATE DRAINS - RURAL

Sta. 0+62 to 2+00 &
25+35 to 38+75
54 @ 15 L.F. = 810 L.F.

ITEM 605 - AGGREGATE DRAINS - RURAL = 810 L.F.

STYGLER ROAD

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5)

Sta. 5+90 to 6+27.21
(Taper; Added on Both Sides)
Avg. W = (0+(24.5)-16))÷2 = 4.25 Ft.
Area = 37.21 x 4.25 = 158.14 S.F.
Sta. 6+27.21 to 9+51.89
(To U.S.R. 62 E.P.)
Area = 324.68 x 24.5 = 7,954.66 S.F.
Sta. 10+46.54 to 13+03
(To Agler E.P.)
Area = 256.46 x 48.5 = 12,438.31 S.F.
Sta. 8+80.66 to 9+52, Lt.
(Radius Return)
Area (By Plan.) = 1,248.00 S.F.
Sta. 9+18.57 to 9+52, Rt.
(Radius Return)
(Area by Plan.) = 432.00 S.F.
Sta. 10+46.5 to 10+85.28, Lt.
(Radius Return)
Area (By Plan.) = 552.00 S.F.
Sta. 10+46.5 to 11+08.47, Rt.
(Radius Return)
Area (By Plan.) = 912.00 S.F.
Sta. 12+52.43 to 13+03, Lt.
(Radius Return)
Area (By Plan.) = 600.00 S.F.
Sta. 12+53.35 to 13+03, Rt.
(Radius Return)
Area (By Plan.) = 560.00 S.F.
Deduct Strip Along U.S.R. 62
Area = (129.67+148.75)(4.5÷12) = - 104.40 S.F.

Total Item 301 T = 8" = 24,750.71 S.F.
Volume = 24,750.71 x 0.667 ÷ 27 = 611.13 C.Y.
Add Volume of 4" Step
Volume = (37.21 + 324.68 + 256.46)(2)
(16)÷(144x27) = 5.09 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE - (U-202(5) = 616.22 C.Y.

ITEM 310 - SUBBASE (U-202(5)

Total Area From 301 = 24,785.51 S.F.
Length from 301 = 618.35 L.F.
Additional W = 5.17 Ft.
Additional Area = 5.17 x 618.35 = 3196.87 S.F.
Total Area 310 = 27,982.38 S.F.
T = 4"
Volume = 27,982.38 x 0.333 ÷ 27 = 345.12 C.Y.

ITEM 310 - SUBBASE (U-202(5) = 345.12 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1½" (U-202(5)

Area 301 = 24,785.51 S.F.
Length From 301 = 618.35 L.F.
Deduct W = 10 Ft.
Deduct Area = 618.35 S.F.
Add Area for Taper
L = 37.21 L.F.
W = 20 Ft.
Area = 37.21 x 20 = 744.20 S.F.
Total Area = 24,911.21 S.F.
Volume = 24,911.21 x (1.5÷12)÷ 27 = 115.33 C.Y.

ITEM 402 - ASPHALT CONCRETE, T = 1½" (U-202(5) = 115.33 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1½" (U-202(5)

Volume 404 = Volume 402 = 115.33 C.Y.

ITEM 404 - ASPHALT CONCRETE, T = 1½" (U-202(5) = 115.33 C.Y.

RIDENOUR ROAD

Area = 294.36 + 125.46(50)-3.1416(50)(50)
(0.5)+5.39(25)
Area = 2,775.11 S.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5)

T = 8"
Volume = (2775.11-125.46(4.5÷12))(8÷12) ÷ 27 = 67.36 C.Y.
Add Volume of 4" Step
Volume = (55.90)(2)(16)÷(144 x 27) = -0.46 C.Y.

ITEM 301 - BITUMINOUS AGGREGATE BASE (U-202(5) = 67.82 C.Y.

ITEM 310 - SUBBASE (U-202(5)

T = 4"
Volume = (2775.11-125.46(.25))(4÷12)÷ 27 = 33.87 C.Y.

ITEM 310 - SUBBASE (U-202(5) = 33.87 C.Y.

ITEM 402 - ASPHALT CONCRETE (U=202(5)

T = 1-3/4"
Volume = 2775.11 x (1.75÷12) ÷ 27 = 14.99 C.Y.

ITEM 402 - ASPHALT CONCRETE (U-202(5) = 14.99 C.Y.

ITEM 404 - ASPHALT CONCRETE (U-202(5)

T = 1¼"
Volume = 2775.11 x (1.25÷12)÷ 27 = 10.71 C.Y.

ITEM 404 - ASPHALT CONCRETE (U-202(5) = 10.71 C.Y.

ITEM 609 - TYPE 6 CURB (U-202(5)

At Radius Returns
L = 162 L.F.
ITEM 609 - TYPE 6 CURB - U-202(5) = 162 L.F.

TOTAL JOB
ITEM 203 - SUBGRADE COMPACTION

URBAN
Mainline
Sta. 1452+00 to 1466+06.59
Pavement Area - See Item 451 = 13,117.68 S.Y.
Shoulder Area = 1406.59 x 28 ÷ 9 = 4,376.06 S.Y.

ITEM 203 - SUBGRADE COMPACTION - URBAN = 17,493.74 S.Y.

TOTAL JOB - Continued

ITEM 203 - SUBGRADE COMPACTION - Continued

RURAL
Mainline
Sta. 1466+06.59 to 1524+00
Pavement Area - See Item 451 = 54,304.24 S.Y.
Shoulder Area = 5793.41 x 28 ÷ 9 = 18,023.94 S.Y.
Correction at Ramp Nosings
Sta. 1485+00 to 1487+71 - See Item 301
Area = 1112÷ 9 = 123.56 S.Y.
Sta. 1487+00 to 1491+00, Rt.
Deduct Area = (100(1)+2(225))÷ 9 = - 61.11 S.Y.
Sta. 1491+00 to 1495+92, Rt.
Area = (498.5(11459.2÷11455.2)8 - 10
(90+402 x 5126.51÷5055.51)÷ 9 = - 109.67 S.Y.
Sta. 1506+00 to 1507+00, Rt.
(See Item 301)
Area = 320 ÷ 9 = 35.56 S.Y.
Sta. 1507+42 to 1519+59.7
Deduct Areas = 1217.7(5126.51÷
5055.51)x (10÷9) = - 1,372.00 S.Y.
Sta. 1507+42 to Sta. 1509+42.86
Area = (203.18 x 2287.83÷2291.83)8 ÷ 9 = 180.29 S.Y.
Sta. 1509+42.86 to 1510+36.57
Area = (93.71 x 5137.51÷5055.51)8 ÷ 9 = 84.65 S.Y.
Sta. 1510+36.57 to 1513+59.7
Area = (328.66 x 1905.86÷1909.86)8 ÷ 9 = 291.53 S.Y.
Sta. 1513+59.7 to 1519+59.7
Area = (600 x 5132.01÷5055.51)8 ÷ 9 = 541.40 S.Y.
Ramp A - See Item 310
Area = (23710.95÷7842.63)÷ 9 = 3,505.95 S.Y.
Ramp C - See Item 310
Area = (15,273.59÷5336.41)÷ 9 = 2,290.00 S.Y.
Ramp D - See Item 310
Area = (78,055.17÷34,594.84)÷ 9 = 12,516.67 S.Y.
Ramp E - See Item 310
Area = (17,057.39÷9231.64)÷ 9 = 2,921.00 S.Y.
Ramp F - See Item 310
Area = (18,427.04÷7404.58)÷ 9 = 2,870.18 S.Y.
Ramp G - See Item 310
Area = (37,786.55÷13,090.65)÷ 9 = 5,653.02 S.Y.
Ramp H - See Item 310
Area = (21,941.62÷7845.92)÷ 9 = 3,309.73 S.Y.
Ramp I - See Item 310
Area = (50,567.76÷29,667.68)÷ 9 = 8,915.05 S.Y.
U.S.R. 62 & U.S.R. 62 SB - See Item 310
Area = (105,631.25÷287,245.22)÷ 9 = 43,658.50 S.Y.
U.S.R. 62 NB - See Item 310
Area = (51,233.63÷148,673.04)÷ 9 = 22,211.85 S.Y.
Agler Road - See Items 304 & 402
Area = (7342.84÷31,080.08)÷ 9 = 4,269.21 S.Y.
Mifflin Blvd. - See Item 402
Area = (31,521.72)÷ 9 = 3,502.31 S.Y.

ITEM 203 - SUBGRADE COMPACTION - RURAL = 187,665.96 S.Y.

U-202(5)

Ramp J - See Item 310
Area = (17,259.32÷5904.73)÷ 9 = 2,573.78 S.Y.
Ramp K - See Item 310
Area = (22,415.16÷7218.56)÷ 9 = 3,292.64 S.Y.
U.S.R. 62 & U.S.R. 62 SB - See Item 310
Area = (100,899.21÷306,522.29)÷ 9 = 45,269.06 S.Y.
U.S.R. 62 N.B. - See Item 310
Area = (17,599.87÷65,026.05)÷ 9 = 9,180.66 S.Y.
Stylger Road - See Item 402
Area = 24,911.21 ÷ 9 = 2,767.91 S.Y.
Ridenour Road - See Item 402
Area = 2775.11 ÷ 9 = 308.34 S.Y.

ITEM 203 - SUBGRADE COMPACTION - U-202(5) = 63,392.40 S.Y.

CALCULATIONS

CALC: SAS 8-69
CHK: RCH 9-69

FRANKLIN COUNTY
FRA. 270 - 25.30N
FRA. 62 - 20.83

ITEM 203 - PROOF ROLLING

See Item 203 - Subgrade Compaction

URBAN

Mainline
Time = 17,493.74 ÷ 3000 = 5.83 HRS.

RURAL

Mainline, Ramps, U.S.R. 62, U.S.R. 62 SB & U.S.R. 62 NB
Area = 72,042.39 + 107,851.95 = 179,894.34 S.Y.
Time = 179,894.34 ÷ 3000 = 59.96 HRS.

U-202(5)

Ramps, U.S.R. 62, U.S.R. 62 NB, U.S.R. 62 SB
Area = 60,316.15 S.Y.
Time = 60,316.15 ÷ 3000 = 20.10 HRS.

ITEM 203 - PROOF ROLLING - URBAN = 5.83 HRS.

ITEM 203 - PROOF ROLLING - RURAL = 59.96 HRS.

ITEM 203 - PROOF ROLLING - U-202(5) = 20.10 HRS.

ITEM 659 SEEDING & MULCHING

RURAL

From Sub Summary - Item 659	= 575,825	S.Y.
Deduct Item 601, Crushed Aggregate Slope Protection	= - 15	S.Y.
Deduct Item 601, Rock C.P., Type B (847 x 3 ÷ 2)	= - 1,270	S.Y.
Deduct Item 601 Rock C.P., As Per Plan (26 x 3 ÷ 2)	= - 39	S.Y.
Deduct Item 660 Sodding	= - 2,505	S.Y.
Deduct Item 660 Sodding for Special Berm & Slope Protection	= - 910	S.Y.
Deduct Item 667 Jute Matting	= - 3,484	S.Y.
Deduct Item 830 Excelsior Matting	= -11,312	S.Y.
Total	= 556,290	S.Y.

ITEM 659 SEEDING & MULCHING - RURAL = 556,290 S.Y.

URBAN

From General Summary Item 659	= 32,035	S.Y.
Deduct Item 601 Crushed Aggregate Slope Protection	= - 3	S.Y.
Total	= 32,032	S.Y.

ITEM 659 SEEDING & MULCHING - URBAN = 32,032 S.Y.

U-202(5)

From General Summary Item 659	= 112,792	S.Y.
Deduct Item 601 Riprap	= - 22	S.Y.
Deduct Item 601 Crushed Aggregate Slope Protection	= - 7	S.Y.
Deduct Item 601 Rock C.P., Type B (20 x 3 ÷ 2)	= - 30	S.Y.
Deduct Item 601 Paved Gutter	= - 60	S.Y.
Deduct Item 660 Sodding	= - 2,274	S.Y.
Deduct Item 660 Sodding for Special Berm & Slope Protection	= - 148	S.Y.
Deduct Item 667 Jute Matting	= - 625	S.Y.
Deduct Item 830 Excelsior Matting	= - 998	S.Y.

ITEM 659 SEEDING & MULCHING (Continued)

U-202(5) - Continued

Total	= 108,628	S.Y.

ITEM 659 SEEDING & MULCHING - U-202(5) = 108,628 S.Y.

ITEM 659 COMMERCIAL FERTILIZER (18-46-0)

RURAL

See Item 659 Seeding & Mulching (Above)	= 556,290	S.Y.
Add Item 660 Sodding	= 2,505	S.Y.
Add Item 660 Sodding For Special Berm & Slope Protection	= 910	S.Y.
Add Item 667 Jute Matting	= 3,484	S.Y.
Add Item 830 Excelsior Matting	= 11,312	S.Y.
Total	= 574,501	S.Y.
(574,501)(15)(9) ÷ (1000)(2000)	= 38.77	TONS

ITEM 659 COMMERCIAL FERTILIZER (18-46-0) RURAL = 38.77 TONS

URBAN

See Item 659 Seeding & Mulching (Above)	= 32,032	S.Y.
(32,032)(15)(9) ÷ (1000)(2000)	= 2.16	TONS

ITEM 659 COMMERCIAL FERTILIZER (18-46-0) URBAN = 2.16 TONS

U-202(5)

See Item 659 Seeding & Mulching (Above)	= 108,628	S.Y.
Add Item 660 Sodding	= 2,274	S.Y.
Add Item 660 Sodding For Special Slope Protection	= 148	S.Y.
Add Item 667 Jute Matting	= 625	S.Y.
Add Item 830 Excelsior Matting	= 998	S.Y.
Total	= 112,673	S.Y.
(112,073)(15)(9) ÷ (1000)(2000)	= 7.60	TONS

ITEM 659 COMMERCIAL FERTILIZER (18-46-0) U-202(5) = 7.60 TONS

ITEM 659 AGRICULTURAL LIMING

RURAL

See Item 659 Commercial Fertilizer (Above)	= 574,501	S.Y.
(574,501)(100)(9) ÷ (1000)(2000)	= 258.52	TONS

ITEM 659 AGRICULTURAL LIMING - RURAL = 258.52 TONS

URBAN

See Item 659 Commercial Fertilizer (Above)	= 32,032	S.Y.
(32,032)(100)(9) ÷ (1000)(2000)	= 14.41	TONS

ITEM 659 AGRICULTURAL LIMING - URBAN = 14.41 TONS

U-202(5)

See Item 659 Commercial Fertilizer (Above)	= 112,673	S.Y.
(112,672)(100)(9) ÷ (1000)(2000)	= 50.70	TONS

ITEM 659 AGRICULTURAL LIMING - U-202(5) = 50.70 TONS

CALCULATION SUMMARY

ITEM	DESCRIPTION	UNIT	RURAL	U-202(5)	URBAN
203	Subgrade Compaction	S.Y.	187,666	63,393	17,494
203	Proof Rolling	HR.	60	21	6
301	Bituminous Aggregate Base	C.Y.	31,183	12,257	2,413
304	Aggregate Base	C.Y.	5,857	2,388	
310	Subbase	C.Y.	14,826	8,636	
402	Asphalt Concrete (70-85)	C.Y.	4,001	2,285	
404	Asphalt Concrete (70-85)	C.Y.	2,943	1,666	
408	Bituminous Prime Coat	GAL.	331		
409	Seal Coat Bituminous Material, As Per Plan	GAL.	9,473	4,630	
409	Seal Coat Bituminous Material	GAL.	249		
409	Seal Coat Cover Aggregate No. 8	C.Y.	260	124	
451	8" Continuous Reinf. Portland Cement Concrete Pavement	S.Y.	54,305		13,118
605	Aggregate Drains	L.F.	6,639	2,681	
609	Curb, Type 6	L.F.	6,768	5,954	
611	Reinforced Conc. Approach Slabs T = 13"	S.Y.	960	403	
612	Concrete Median	C.Y.	461	523	
659	Commercial Fertilizer	TON	38.77	7.60	2.16
659	Agricultural Liming	TON	258.52	50.70	14.41
659	Seeding & Mulching	S.Y.	556,290	108,628	32,032

SUB-SUMMARY RURAL

Interstate Participation
Rural - 90% Federal, 10% State

CALC WDR 3-70
CHKD SAS 3-70

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N FRA-62-20.83

| Sheet No. | 201 Clearing & Grubbing | 202 Exist. Struct. Removed | 202 Pipe Removed 24" & Under | 202 Exist. Pavt. Removed & Disposed of | 202 Exist. Sidewalk Removed & Disposed of | 202 Manholes Removed or Abandoned | 202 Catch Basins and/or Inlets Removed or Abandoned | 202 Exist. Curb & Gutter Removed & Disposed of | 203 Excav. not Including Embank. Const. as per plan | 203 Embankment | 203 Subgrade Compaction | 203 Proof Rolling | 301 Bit. Aggregate Base 702.09 or 702.09 RT-11 or 12 | 304 Aggregate Base | 310 Subbase | 402 Asphalt Concrete (70-85) | 404 Asphalt Concrete (70-85) | 404 Asphalt Concrete (85-100) | 408 Bituminous Prime Coat 702.08 RT-2 or 3 | 409 Seal Coat Bitum. Material as per plan | 409 Seal Coat Cover Aggregate No. 8 | 410 Traffic Compacted Surface Type A or B | 451 8" Continuously Reinf. Portland Cement Concrete Pavt. | 409 Sealcoat Bit. Matl. 702.09 RT-9 or RT-10 MC-800 or MC-3000 | 601 Crushed Aggregate Slope Protection (Farm Drains) | 601 Rock Channel Protection Type "B" | 601 Rock Channel Protection, as per plan | 602 Concrete Masonry | 603 TYPE "B" CONDUIT 6" (Farm Drain) | 6" | 12" (Farm Drain) | 8" (Farm Drain) | 12" (Farm Drain) | 15" | 18" | 21" | 24" | 27" 706.02 Cl. III or 706.08 | 27" | 53"x34" Cl. HE-II 706.04 | 30" | 33", 706.02 Cl. IV | 66" | 603 TYPE "C" CONDUIT 6" | 27" | 18" 24" 27" 706.03 Cl. III or 706.08 | 24" 27" 706.03 Cl. III or 706.08 | 60" | 66" | 72" | 66" 706.02 Cl. III or 707.13 | TP. "D" COND. 12" | TYPE "E" CONDUIT 6" (Farm Drain) | 8" (Farm Drain) | 12" (Farm Drain) | TYPE "F" CONDUIT 6" (Farm Drain) | 8" (Farm Drain) | 12" (Farm Drain) | 6" | 15" | 18" |
|---|---|---|---

SUB-SUMMARY RURAL

Interstate Participation
Rural - 90% Federal, 10% State

WDR 3-70
SAS 3-70

FED RD DIVIS-ON	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N FRA-62-20.83

42

	604														605					606							503	509	511	607	609			611	612	614	615	616	619	656	659			660		667	814	830	Special	
	Std. No. 1-A Manhole	Std. No. 2-A-6 Paved Shoulder Inlet	Std. No. 2-A-8 Paved Shoulder Inlet	Std. No. 2-2-B Catch Basin	Std. No. 2-2-B Catch Basin as per plan.	Std. No. 4 Catch Basin	Std. No. 4-A Catch Basin	Std. No. 5 Catch Basin	Std. No. 5 Catch Basin, with "B" Grate	Std. No. 5-A Catch Basin	Std. No. 6 Catch Basin, as per plan	Std. Centerline Reference Monument	Std. Inspection Well		6" Shallow Pipe Underdrains	6" Deep Pipe Underdrains	6" Unclass. Pipe Underdrains Type III at 70210 as per plan	Aggregate Drains For Springs, as per plan	Aggregate Drains	Guard Rail Type 4	Guard Rail Type 5	Guard Rail Type 5 Barrier Design	Anchor Assembly	Approach End Assembly Single Rail	Approach End Assembly Double Rail	Bridge Terminal Assembly	Unclass. Excavation	Reinforcing Steel	Class "C" Concrete	Fence Type CL	Comb. Curb & Gutter as per plan	Std. Conc. Curb Type 6	Std. Conc. Curb Type 7	Std. Conc. Curb Type 8	Reinf. Conc. Approach Slab (T=13")	Conc. Median	Maintaining Traffic	Temporary Roads	Calcium Chloride	Water	Field Office	Const. Layout Stakes	Roadside Cleanup	Commercial Fertilizer (10-26-26) as per plan	Agricultural Liming, as per plan	Seeding & Mulching as per plan (to calculations)	Seeding & Mulching, as per plan (From Calculations)	Sodding	Sodding for Special Slope & Berm Protect. as per plan	Seeding & Jute Matting	Fire Hydrant Removed & Reset	Seeding and Excelsior Matting	Drilled Well Abandoned	Cleaning Privy Vaults	Cleaning and Disposing of Septic Tanks
	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.		L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	Ea.	C.Y.	Lbs.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	S.Y.	C.Y.	Lump	Ton	M.Gal.	Lump	M.S.F.	Ton	Ton	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	Ea.	S.Y.	Ea.	Ea.	Ea.
19-26					1								1				100		10																	Lp.	Lp.	34	150	Lp.									55		64
40																			6639													6768		960	461							38.77	258.52		556290						
57																786					150		1	1																					8880						
58							1	1								2000				112.5			4																					23672			125			1	
59							1	1								1804																												23889		34	125			1	
60						1	1	2		1						1265				50	925	50	6	2	2																				20171		34	625		473		3	
61	1					1		1								1828					1175	50.	2	2	2																				31906			225				
62						1		1		1					182	1712					1137.5	50	2	2	2																				28068		34	375			2	
63								1		1						817																												7095			300				
88																1200				25			2																							125					1	
89																					931.5		1	1	2																				251	121			6877		
90								1		1	1				672	726					400		2	2																					323		125		471		
91										1					1305						325			2	2																						159	375		1473		1	
92																200																													140	99			285		
93															1886						675		4	2	2																						90			1987		1	
94								1							700	1354				25			2																						111	72	375		346		2	
96																																														22,531							
97																																														13506							
98																																														71213							
99																																														10696							
100																																														35272							
101																																														29430							
102																																														14725							
103																																														58556							
169																																411	833	1238																		
173															100																														2512		34					
174															2245						300		2	2																					7154		34					
175											1				1408						350		2	2																					15755						1	
176		1	1												1046						312.5	320.73	1	2	1	1																			10807		17	84				
177		1						1							1655						1387.72	580	2	3		1																			18029			91	250			
178		1													2008	747					550	800	1	1																					7454							
179		2	1								3				1082	735					350	1000	2	2																					16549		825					
180															85							85																						1266							
212																				25			2																					9360						1	
213															840						650		4	4																					25891							
214															693						325			2		2																			12897							
215											1				300					50			2											93										20002		330					
216															950																													14110		25					
234																					162.5		1	3																					2901							
235																				462.5	500		3	3		4																			7196		188	194				
236				1																																								3076					1		
242									3												950		1																					6754				375			
249									1												225		1																					2563				209			
250																																																					
254																											152	20.01	2310																								
257																											230	20.65	2203																								
263																											230	20.65	2203																								
266																											137	10.33	1430																								
R/W												86																			16,103																								
Total	1	5	2	1	1	3	3	10	4	5	6	86	1		17157	15174	100	6639	10	750	11781.72	2935.73	50	38	7	14	555	434.64	812.6	16103	93	7179	833	1238	960	461	Lp.	Lp.	34	150	Lp.	Lp.	185	38.77	258.52	5768.25	556290	2505	910	3484	1	11312	55	19	64

SUB-SUMMARY RURAL

GENERAL SUMMARY

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

42A

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

ITEM No.	PART I	PART II	TOTAL	UNIT	DESCRIPTION
					ROADWAY
201	LUMP	LUMP	LUMP	LUMP	Clearing and grubbing
202	LUMP		LUMP	LUMP	Existing structure removed.
202	557	573	1130	Sq. Yd.	Existing pavement removed and disposed of.
Spec		LUMP	LUMP	LUMP	Removing and disposing of underground storage tanks.
202	655		655	Sq. Ft.	Existing sidewalk removed and disposed of.
202	870	293	1163	Lin. Ft.	Pipe removed 24" and under.
202	268		268	Lin. Ft.	Pipe removed over 24".
202	6	1	7	EACH	Manhole removed or abandoned.
202	9		9	EACH	Catch basin or inlet removed or abandoned.
202	227		227	Lin. Ft.	Existing curb or curb and gutter removed and disposed of.
203	1040,879	682,535	1,723,414	Cu. Yd.	Excavation not including embankment construction, as per plan.
203	13672		13672	Cu. Yd.	Borrow, using granular material, as per plan, including the cost of excavation of unsuitable material.
203	922,263	353/31	1,275,394	Cu. Yd.	Embankment.
203	268553	153.84	422,237	Sq. Yd.	Subgrade compaction.
203	87	45	132	Hours	Proof rolling.
410	1100	300	1400	Cu. Yd.	Traffic compacted surface type A or B.
604	101	41	142	Each	Center line, reference monument.
606	862.5	75	937.5	Lin. Ft.	Guard rail, type 4.
606	16119.22	5451	21,570.22	Lin. Ft.	Guard rail, type 5.
606	4845.72	200	5045.72	Lin. Ft.	Guard rail, type 5, barrier design.
606	62	17	79	Each	Anchor assembly.
606	43	20	63	Each	Approach end assembly single rail.
606	12	6	18	Each	Approach end assembly, barrier rail.
606	19	14	33	Each	Bridge terminal assembly.
607	27972	16195	44,167	Lin. Ft.	Fence, type CL.
608	495		4195	Sq. Ft.	4" Concrete walk.
615	LUMP	LUMP	LUMP	LUMP	Temporary roads.
615		3689	3689	Sq. Yd.	Temporary pavement, class A.
616	54	56	110	Ton.	Calcium chloride.
616	350	900	1250	M. Gal.	Water.
656	185		185	M. Sq. Ft.	Roadside cleanup.
Spec	67	19	86	Each	Cleaning and disposing of Septic tank.
Spec.	56	16	72	Each	Drilled well abandoned.
Spec.	13		13	Each	Cleaning privy vault.
607		2	2	Each	8' Gate Type CL, Modified as per plan
607		40	40	Lin. Ft.	Fence Type CL, Modified as per plan.
					EROSION CONTROL
601	867	202	1069	Cu. Yd.	Rock channel protection, type B.
601	26		26	Cu. Yd.	Rock channel protection, as per plan
601		1075	1075	Cu. Yd.	Rock channel Protection, type A
657		10	10	Sq. Yd.	Rip rap for tree protection
601	22		22	Sq. Yd.	Rip rap using 6" reinforced concrete slab.
658		10	10	Cu. Yd.	Tree root aeration.
601	25		25	Sq. Yd.	Crushed aggregate slope protection
659	696,950	304,801	1,001,751	Sq. Yd.	Seeding and mulching, as per plan.
659	49.53	28.26	77.79	Tons.	Commercial fertilizer (18-46-0), as per plan.
601	60		60	Lin. Ft.	Paved gutter, standard type 1-2
660	4779		4779	Sq. Yd.	Sodding.
660	1058	504	1562	Sq. Yd.	Sodding for special berm and slope protection, as per plan.
667	4109	4079	8188	Sq. Yd.	Seeding and Placing Jute matting, as per plan
830	12310	4713	17023	Sq. Yd.	Seeding and excelsior matting, as per plan.
659	323.63	136	459.63	Ton	Agricultural liming, as per plan.
Spec	340,000	140,000	480,000	Sq. Yd.	Temporary Seeding and mulching
Spec.	15	6	21	Ton	Commercial Fertilizer (12-12-12)
Spec.	160	60	220	M-Gal	Water
Spec	5400	5,100	10,500	Lin. Ft.	Temporary Slope Drains
Spec.	900	350	1250	Cu. Yd.	Temporary Benches, Dikes, Dams and Sediment Basins

ITEM Nº	PART I	PART II	TOTAL	UNIT	DESCRIPTION
					DRAINAGE
503	1029	372	1401	Cu. Yd.	Unclassified excavation.
509	150,755	58,995	209,750	Lbs.	Reinforcing steel.
511	1142.1	391	1,533.1	Cu. Yd.	Class C concrete.
602	7.8	5.7	13.5	Cu. Yd.	Concrete masonry.
603	68		68	Lin. Ft.	18" Conduit, type A 706.01, 706.02 or 706.08.
603	154		154	Lin. Ft.	48" Conduit, type A 706.02.
603	1353	517	1870	Lin. Ft.	6" Conduit, type B.
603	300		300	Lin. Ft.	8" Conduit, Type B
603	1888		1888	Lin. Ft.	12" Conduit, type B.
603	832	826	1658	Lin. Ft.	15" Conduit, type B.
603	338	260	598	Lin. Ft.	18" Conduit, type B.
603	504	171	675	Lin. Ft.	21" Conduit, type B.
603	64	90	154	Lin. Ft.	27" Conduit, type B.
603	238		238	Lin. Ft.	27" Conduit, type B, 706.02 class III or 706.08.
603		324	324	Lin. Ft.	27" Conduit, type B, 706.02 class V.
603	106		106	Lin. Ft.	30" Conduit, type B.
603	562		562	Lin. Ft.	33" Conduit, type B, 706.02, Class V.
603	744		744	Lin. Ft.	66" Conduit, type B.
603	198		198	Lin. Ft.	53" x 34" Conduit, type B, class HE-II 706.04.
603		253	253	Lin. Ft.	84" Conduit, type B.
603	462		462	Lin. Ft.	24" Conduit, type B.
603	480		480	Lin. Ft.	24" Conduit, type B, 706.02 class IV.
603	54		54	Lin. Ft.	18" Conduit, type C 706.01 E.S. 706.02, 706.08 E.S. or 707.13
603	100		100	Lin. Ft.	6" Conduit, type C.
603	62		62	Lin. Ft.	12" Conduit, type C.
603		38	38	Lin. Ft.	15" Conduit, type C.
603	14	186	200	Lin. Ft.	18" Conduit, type C.
603	472	35	507	Lin. Ft.	24" Conduit, type C.
603	576		576	Lin. Ft.	24" Conduit, type C, 706.02 Class III, 706.08 E.S. or 707.13.
603	550		550	Lin. Ft.	24" Conduit, type C 706.02 Class IV or 707.13, 14 Gage
603	50	40	90	Lin. Ft.	27" Conduit, type C.
603		22	22	Lin. Ft.	30" Conduit, type C.
603		236	236	Lin. Ft.	30" Conduit, type C, 706.02 or 706.08 E.S.
603		83	83	Lin. Ft.	36" Conduit, type C, 706.02, 706.08 ES or 707.13
603	3860		3860	Lin. Ft.	40" Conduit, type C.
603	~~1179~~ 1113	1113	~~1179~~	Lin. Ft.	66" Conduit, type C.
603	~~784~~ 350	434	~~784~~	Lin. Ft.	66" Conduit, type C, 706.02 class III or 707.13.
603	1232	2046	3278	Lin. Ft.	72" Conduit, type C.
603		3641	3641	Lin. Ft.	84" Conduit, type C.
603		1827	1827	Lin. Ft.	96" Conduit, type C.
603		77	77	Lin. Ft.	24" Conduit, type C, 706.02, 706.08 ES or 707.13
603		100	100	Lin. Ft.	21" Conduit, type C.
603		225	225	Lin. Ft.	27" Conduit, type C, 706.02, 706.08 ES or 707.13
603	724	44	768	Lin. Ft.	12" Conduit, type D.
603	150		150	Lin. Ft.	6" Conduit, type E
603	150		150	Lin. Ft.	8" Conduit, type E
603	150		150	Lin. Ft.	12" Conduit, type E
603	572	165	737	Lin. Ft.	6" Conduit, type F.
603	50		50	Lin. Ft.	8" Conduit, type F
603	50		50	Lin. Ft.	12" Conduit, type F
603	50		50	Lin. Ft.	15" Conduit, type F.
603	58		58	Lin. Ft.	18" Conduit, type F
603		46	46	Lin. Ft.	27" Conduit, type F.

LD 0203
4-29-67

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

ITEM Nº	PART I	PART II	TOTAL	UNIT	DESCRIPTION
					TRAFFIC CONTROL (Con't.)
816		1 ✓	1	Ea.	Overhead sign support, Nº 7.6 design 4 span 86' (modified)
816		2 ✓	2	Ea.	Overhead sign support, Nº 12.24 design 8 arm 24' (modified)
816		1 ✓	1	Ea.	Overhead sign support, Nº 12.24 design 6 arm 28' (modified)
816		1 ✓	1	Ea.	Overhead sign support, Nº 15.8 design 4 span 109' (modified)
816		1 ✓	1	Ea.	Overpass structure mounted sign support,
					Continued on Sheet No. 42 D
					LIGHTING
625	12		12	Ea	Light pole design 11AT 15B 41.7
625	23		23	Ea	Light pole design 11AT 12B 41.7
625	1		1	Ea	Light pole design 7A 10B 32.6
625		1	1	Ea.	Light pole design 11T12B34.2
625	16	1	17	Ea.	Light pole design 11AT12B34.2
625		1	1	Ea.	Light pole design 11T12B40
625		1	1	Ea.	Light pole design 11T15B34.2
625	15	8	23	Ea.	Light pole design 11AT15B34.2
625		4	4	Ea.	Light pole design 11AT15B40
625		2	2	Ea.	Light pole design 7AT25B40
625		1	1	Ea.	Light pole design 7A10B40
625	35	2	37	Ea.	Light pole foundation, 24"x8' deep
625	48	16	64	Ea.	Light pole foundation, 24"x6' deep
625		8	8	Ea.	Luminaire, type III, 1000 watt, 713.11 (medium cutoff)
625	25	9	34	Ea.	Luminaire, type III, 400 watt, 713.11 (medium cutoff)
625	24	2	26	Ea.	Luminaire, type II, 400 watt, 713.11 (medium cutoff)
625	35	8	43	Ea.	Lamp, 700 watt, 713.14. Mercury
625	49	11	60	Ea.	Lamp, 400 watt, 713.14 Mercury
625	75	29	104	Ea.	Pullbox, 18" Circular 713.09
625	83	18	101	Ea.	Ground rod.
625	26,511	9458	35,969	L.F.	Trench, 24" deep.
625	2912	868	3780	L.F.	Conduit, 2", 713.04, type II or III.
625	1452	1628	3080	L.F.	Conduit, 3", 713.04, type II or III.
625	3626	6728	10,354	L.F.	Nº 4 AWG, 600 volt, distribution circuit cable.
625	8390	1970	10,360	L.F.	Nº 10 AWG, Pole and bracket cable, 19 Strand
625	22,353	8459	30,812	L.F.	1½" duct-cable with two Nº 4 AWG 600 volt cables.
625	78	50	128	Ea.	Connector Kit, type I.
625	84	19	103	Ea.	Connector Kit, type II
625	84	19	103	Ea.	Connector Kit, type III
625	48	32	80	Ea.	Connector Kit, type VII B or C.
625		1	1	Ea.	Marker
625	12	4	16	Ea.	Structure junction box, 16"x12"x6"
625	12	8	20	Ea.	Light pole anchor U bolt for structure, 713.01. (1¼"x85)
625	12		12	Ea.	Light pole anchor U bolt for Structure 713.01 (1¼"x 83½")
625		Lump	Lump	Lump	Service pole.
625		Lump	Lump	Lump	Control center.
625	Lump		Lump	Lump	Control center I
625	Lump		Lump	Lump	Control center II
625	333		333	L.F.	Conduit 3" 713.04 Type II or III jacked under pavement as per plan
625	2288		2288	L.F.	Nº 2 AWG 600 VOLT DISTRIBUTION CIRCUIT CABLE
625	2		2	Each	Glare shield
625	4742		4742	L.F.	1½" Duct-Cable with two Nº 2 AWG 600 volt cables
625	35		35	Each	Luminair type III 700 watt 713.11 (medium cutoff)
625		1	1	Each	Structure Grounding System FRA-270-2685 N
625		1	1	Each	Structure Grounding System FRA-270-2824 N (Rt)
625		1	1	Each	Structure Grounding System FRA-270-2824 N (Lt)
625		1	1	Each	Structure Grounding System FRA-270-2719 N
625	4		4	Each	Luminaire, Underpass, 250 Watt Mercury 713.13
625	4		4	Each	Lamp, 250 Watt 713.14 Mercury
625	Lump		Lump	Lump	Service to underdeck Lighting, as per plan
625	1		1	Each	Structure Grounding System FRA-270-2616 N
625	1		1	Each	Structure Grounding System FRA-270-2645 N

ITEM Nº	PART I	PART II	TOTAL	UNIT	DESCRIPTION
					LIGHTING (Cont'd.)
625	1		1	Each	Structure Grounding System FRA-270-2666N
625	1		1	Each	Structure Grounding System FRA-270-2667N
625	1		1	Each	Structure Grounding System FRA-62-2095
625	1		1	Each	Structure Grounding System FRA-62-2181
					BUILDING REMOVALS
202	Lump		Lump	Lump	Parcel Nº 70-WL, Removal of one 1-story block residence, one garage, one shed
202	Lump		Lump	Lump	Parcel Nº 169-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 182-WL, Removal of one frame shed, one privy.
202	Lump		Lump	Lump	Parcel Nº 202-WD, Removal of one 1-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 210-WD, Removal of one 1½-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 212-WL, Removal of one 1-story frame residence, one 2-car concrete block garage.
202	Lump		Lump	Lump	Parcel Nº 220-WL, Removal of one 1-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 240-WL, Removal of one 1-story frame residence, one privy.
202	Lump		Lump	Lump	Parcel Nº 267-WL, Removal of 1½-story frame residence, one frame shed one privy.
202	Lump		Lump	Lump	Parcel Nº 268-WL, Removal of one frame shed
202	Lump		Lump	Lump	Parcel Nº 275-WL, Removal of one 1-story frame residence, one frame garage.
202	Lump		Lump	Lump	Parcel Nº 291-WL, Removal of one 1-story frame residence, one frame garage, one privy.
202	Lump		Lump	Lump	Parcel Nº 330-WL, Removal of one 1-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 336-WL, Removal of one playhouse.
202	Lump		Lump	Lump	Parcel Nº 344-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 352-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 358-WL, Removal of one 1-story frame residence, one privy.
202	Lump		Lump	Lump	Parcel Nº 367-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 476-WL, Removal of one 1-story block residence, one 2-car frame garge, one frame shed.
202	Lump		Lump	Lump	Parcel Nº 477-WL, Removal of one 1-story block residence, one 1-car concrete block garage, one privy.
202	Lump		Lump	Lump	Parcel Nº 478-WL, Removal of one 1-story frame residence, one frame shed.
202	Lump		Lump	Lump	Parcel Nº 479-WL, Removal of one 1-story frame residence, one 2-car concrete block garage.
202	Lump		Lump	Lump	Parcel Nº 492-WL, Removal of one 1-story frame residence, one frame shed, one privy.
202	Lump		Lump	Lump	Parcel Nº 495-WL, Removal of one 1-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 506-WL, Removal of one 1½-story frame residence, one frame shed.
202	Lump		Lump	Lump	Parcel Nº 523-WL, Removal of one 1-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 535-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 559-WL, Removal of one Privy.
202	Lump		Lump	Lump	Parcel Nº 575-WL, Removal of one 1-story frame residence.
202	Lump		Lump	Lump	Parcel Nº 593-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 603-WL, Removal of one frame shed.
202	Lump		Lump	Lump	Parcel Nº 616-WL, Removal of one 1-story frame residence, one 2-car frame garage.
202	Lump		Lump	Lump	Parcel Nº 617-WL, Removal of one 1-story frame residence with attached garage.
202	Lump		Lump	Lump	Parcel Nº 625-WD, Removal of one 1-story frame residence, one garage.
202	Lump		Lump	Lump	Parcel Nº 636-WD, Removal of one 2½-story frame residence, one 2-car frame garage.
202	Lump		Lump	Lump	Parcel Nº 642-WL, Removal of one 1-story frame residence, 4 frame sheds.
202	Lump		Lump	Lump	Parcel Nº 643-WL, Removal of one frame shed, one privy.
202	Lump		Lump	Lump	Parcel Nº 644-WL, Removal of one 1-story frame residence, one 2-car concrete block garage, one frame shed
202	Lump		Lump	Lump	Parcel Nº 656-WL, Removal of one frame barn.
202	Lump		Lump	Lump	Parcel Nº 657-WL, Removal of one 1-story stucco residence, one concrete block garage.
202	Lump		Lump	Lump	Parcel Nº 659-WL, Removal of one stone split level residence, one garage.
202	Lump		Lump	Lump	Parcel Nº 664-WL, Removal of one 1-story stone and frame residence with attached 2-car garage.
202	Lump		Lump	Lump	Parcel Nº 666-WL, Removal of one 1-story stone residence with 2-car attached garage
202	Lump		Lump	Lump	Parcel Nº 677-WL, Removal of one 1-story stone residence.
202	Lump		Lump	Lump	Parcel Nº 1000-T, Removal of one 1-story concrete block building.
202	Lump		Lump	Lump	Parcel Nº 188-WL, Removal of one 1-story concrete block residence, one frame shed.
202	Lump		Lump	Lump	Parcel Nº 196-WL, Removal of one 1-story frame residence, one 2-car frame garage.
202		Lump	Lump	Lump	Parcel Nº 737-WD, Removal of one 1-story concrete block store.
202		Lump	Lump	Lump	Parcel Nº 738-WD, Removal of one 1-story frame shed, one 1-story concrete block store.
202		Lump	Lump	Lump	Parcel Nº 739-WL, Removal of one frame residence and one frame garage.
202		Lump	Lump	Lump	Parcel Nº 740-WL, Removal of one frame residence
202		Lump	Lump	Lump	Parcel Nº 745-WL, Removal of one metal storage and office building
202		Lump	Lump	Lump	Parcel Nº 756-WL, Removal of one frame residence, one frame garage
202		Lump	Lump	Lump	Parcel Nº 759-WL, Removal of one stucco and stone residence.
202		Lump	Lump	Lump	Parcel Nº 760-WL, Removal of one stone and stucco residence, one stucco garage shed.
202		Lump	Lump	Lump	Parcel Nº 764-WL, Removal of one barn
					For Reference to Bridge Quantities See Sh. No. 46 Part I and Sh. No. 14 Part 2
		Lump	Lump	Lump	Construction Layout Stakes
619		Lump	Lump	Lump	Field Office
614		Lump	Lump	Lump	Maintaining Traffic

L. D. 0308
12-29-67

GENERAL SUMMARY

CALC:
CHK:

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

42D

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.03

ITEM	PART I	PART II		ITEM	GRAND TOTAL	UNIT	DESCRIPTION
							TRAFFIC CONTROL (Cont'd.)
	84			815	84	Sq.Ft.	Interim Covering For Signs
	77			816	77	Lin.Ft.	Interim Steel Drive Post 4 lb., as per plan
	45			816	45	Lin.Ft.	Structural Support, 6 lb Beam Driven, as per plan
	1			816	1	Ea.	Overhead Sign Support No. 7.4 Design 1 Modified, 57'-0" Span
	1			816	1	Ea.	Overhead Sign Support No. 7.4 Design 1 Modified, 62'-0" Span
	1			816	1	Ea.	Overhead Sign Support No. 7.4 Design 1, 64'-0" Span
	1			816	1	Ea.	Overhead Sign Support No. 7.4 Design 1, Modified, 65'-0" Span
	1			816	1	Ea.	Overhead Sign Support No. 7.4 Design 1, Modified, 74'-0" Span
	1			816	1	Ea.	Overhead Sign Support No. 7.6 Design 4, 81'-0" Span
	1			816	1	Ea.	Overhead Sign Support No. 7.6 Design 4, 89'-0" Span
	2			816	2	Ea.	Overhead Sign Support No. 9.12 Design 1 Modified, 7'-0" Arm
	1			816	1	Ea.	Overhead Sign Support No. 12.24 Design 3 Modified, 18'-0" Arm
	1			816	1	Ea.	Overhead Sign Support No. 12.24 Design 4, 21'-0" Arm
	1			816	1	Ea.	Overhead Sign Support No. 12.24 Design 4 Modified, 21'-0" Arm
	1			816	1	Ea.	Overhead Sign Support No. 12.24 Design 5 Modified, 22'-0" Arm
	1			816	1	Ea.	Overhead Sign Support No. 12.24 Design 6 Modified, 20'-0" Arm
	1			816	1	Ea.	Overpass Structure Mounted Sign Support, Skewed
	4			625	4	Ea.	Transformer, Type III
	1			625	1	Ea.	Transformer, Type VI
	2			625	2	Ea	Special Disconnect Switch Enclosure Mounting Bracket
	2			202	2	Ea.	Removal of Existing Major Sign Installations, as per plan
	Lump			202	Lump	Lump	Removal of Existing Sign Installations, as per plan
	1100			202	1100	Lin.Ft.	Interim Guard Rail Removed
	1075			606	1075	Lin.Ft.	Temporary Beam Rail, as per plan
	7			620	7	Ea.	Interim Delineator, as per plan
	2			620	2	Ea.	Delineator Type A-1, Bracket Mounted
	11			620	11	Ea.	Delineator Type C-2, Bracket Mounted
	1070			621	1070	Lin.Ft.	Interim Edge Line
	1100			621	1100	Sq.Ft.	Island Marking
	1978			621	1978	Lin.Ft.	Barrier Line
	12			621	12	Ea.	Lane Arrows

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

42B

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

ITEM Nº	PART I	PART II	TOTAL	UNIT	DESCRIPTION
					DRAINAGE (Continued)
604	4	1	5	Each	Standard Nº 1 Manhole.
604	1	10	11	Each	Standard Nº 1-A Manhole.
604	1		1	Each	Standard Nº 2 Manhole.
604	11		11	Each	Standard Nº 2-A-6 paved shoulder inlet.
604	5		5	Each	Standard Nº 2-A-8 paved shoulder inlet.
604	2		2	Each	Standard Nº 2-A-10 paved shoulder inlet.
604	1		1	Each	Standard Nº 2-A-14 paved shoulder inlet, as per plan.
604	1		1	Each	Standard Nº 2-2-A catch basin.
604	3	1	4	Each	Standard Nº 2-2-B catch basin.
604	2		2	Each	Standard Nº 2-2-B catch basin as per plan
604	1		1	Each	Standard Nº 2-3 Catch basin, as per plan
604	2		2	Each	Standard Nº 3 catch basin.
604	3		3	Each	Standard Nº 4 catch basin.
604		9	9	Each	Standard Nº 4 catch basin, modified, as per plan
604	4		4	Each	Standard Nº 4-A catch basin.
604	11	14	25	Each	Standard Nº 5 catch basin.
604	6	2	8	Each	Standard Nº 5-A, catch basin.
604	4		4	Each	Standard Nº 5 catch basin using B grate
604	7		7	Each	Standard Nº 6 catch basin, as per plan.
604	3		3	Each	Catch basin adjusted to grade.
604	1		1	Each	Manhole reconstructed to grade.
604	2		2	Each	Standard inspection well.
605	23845	835	24680	Lin. Ft.	6" Shallow pipe underdrains.
605	22581	12681	35262	Lin. Ft.	6" Deep pipe underdrains.
605	200	100	300	Lin. Ft.	6" Unclassified pipe underdrains 707.01 type III or 707.12, as per plan.
605		1575	1575	Lin. Ft.	6" Unclassified pipe underdrains, as per plan.
605	9320	3351	12671	Lin. Ft.	Aggregate drains.
605	20	50	70	Lin. Ft.	Aggregate drains 5or springs, as per plan.
					SANITARY SEWERS
603		38	38	Lin. Ft.	4" Conduit, type C, 706.08, with joints as per 706.12
603		113	113	Lin. Ft.	6" Conduit, type C, 706.08, with joints as per 706.12
603		762	762	Lin. Ft.	8" Conduit, type C, 706.08 E.S. with joints as per 706.12
604		1	1	Each	Standard Nº 1-A manhole, with joints as per 706.12
604		3	3	Each	Standard inspection well.
					PAVEMENT
301	45853	21471	67,324	Cu. Yd.	Bituminous aggregate base 702.01(85-100) or 702.09 RT-11 or RT-12.
304	8883	4319	13,202	Cu. Yd.	Aggregate base.
310	23462	2866	26328	Cu. Yd.	Subbase
402	6286	1246	7532	Cu. Yd.	Asphalt concrete (70-85).
404	4609	1275	5884	Cu. Yd.	Asphalt concrete(70-85).
404	277		277	Cu. Yd.	Asphalt concrete(85-100).
407	237		237	Gal.	Tack coat: 702.04 MS-2 or RS-1; 702.02 RC-70 or RC-250.
408	331	2276	2607	Gal.	Bituminous prime coat 702.09, RT-2 or RT-3.
409	384	40	424	Cu. Yd.	Seal coat cover aggregate Nº 8
409	14103	1507	15610	Gal.	Seal coat bituminous material, as per plan.
409	249		249	Gal.	Seal coat bituminous material 702.09 RT-9 or RT-10 702.02 MC-800 or MC-3000
451	67423	82843	150266	Sq. Yd.	8" Continuously reinforced portland cement concrete pavement, as per plan
452	74		74	Sq. Yd.	7" Plain portland cement concrete pavement.
451		516	516	Sq. Yd.	9" Reinforced portland cement concrete pavement.
609	93		93	Lin. Ft.	Combination curb and gutter, as per plan.
609		210	210	Lin. Ft.	Combination curb and gutter type 2, as per plan.
609	13133		13133	Lin. Ft.	Concrete curb standard type 6.
609	950	112	1062	Lin. Ft.	Concrete curb standard type 7.
609	1386	156	1542	Lin. Ft.	Concrete curb standard type 8.
611	1363	1161	2524	Sq. Yd.	Reinforced concrete approach slabs (T=13").
612	984		984	Cu. Yd.	Concrete median.

ITEM Nº	PART I	PART II	TOTAL	UNIT	DESCRIPTION	Columbus Spec. No.
					WATER WORKS CODE TYPE Y060	
SPECIAL	30		30	Lin. Ft.	6" Ductile Iron Water Pipe A.S.A. Class 4, Mech. Joint, Cement Lined	801
SPECIAL		302	302	Lin. Ft.	8" Ductile Iron Water Pipe A.S.A. Class 4, Mech. Joint, Cement Lined	801
SPECIAL	284		284	Lin. Ft	16" Ductile Iron Water Pipe A.S.A. Class 4, Mech. Joint, Cement Lined	801
SPECIAL		1.0	1.0	C.Y.	Concrete Encasement Class "E" of 8" Water Main	801
SPECIAL	1		1	Each	Cutting in 16"x6" Ductile Iron Anchoring Tee, Mech. Joint, Cement Lined	801
SPECIAL	5.6	3.5	9.1	C.Y.	Concrete Blocking Class "E"	801
SPECIAL	1		1	Each	6" Gate Valve	802
SPECIAL		2	2	Each	8" Gate Valve	802
SPECIAL		212	212	Lbs.	Iron Castings	804
SPECIAL	1		1	Each	3/4" Corporation Cock	805
SPECIAL	25		25	Lin. Ft.	3/4" Copper Water Service	805
SPECIAL		1	1	Each	Cutting and Plugging of 12" Water Main	808
SPECIAL	1		1	Each	Water Service Tap Abandoned	818
814	1		1	Each	Fire Hydrant Removed and Reset as per plan	—
814	2		2	Each	Fire Hydrant Removed and Reset	—
					TRAFFIC CONTROL	
620	119	103	222	Each	Delineators Type A1 post mounted	
620	390	39	429	Each	Delineators Type C2 post mounted	
621	20.83	8.09	28.92	Miles	4" Edge lines	
621	2.81	0.64	3.45	Miles	4" Lane lines	
621		0.27	0.27	Miles	4" Solid center lines	
621	2.27	3.14	5.41	Miles	6" Lane lines	
621		156	156	L.F.	12" Stop lines	
621	285	52	337	L.F.	24" Stop lines	
621	6948	2101	9049	L.F.	Channelizing lines	
621	4218	1630	5848	L.F.	24" Broad transverse stripes	
621	2531	268	2799	L.F.	Curb Marking	
625	6	1	7	Ea.	Ballast Type A	
625	5	4	9	Ea.	Ballast Type B	
625	2	2	4	Ea.	Ballast Type C	
625	14	6	20	Ea.	Ballast Type D	
625	14	6	20	Ea.	72" Fixture with HO lamp	
625	22	3	25	Ea.	72" Fixture with SHO lamp	
625	2	3	5	Ea.	96" Fixture with HO lamp	
625	8	11	19	Ea.	96" Fixture with SHO lamp	
625		1	1	Ea.	Transformer Type I	
625	3	1	4	Ea.	Transformer Type II	
625	5	4	9	Ea.	Transformer Type III	
625	2	2	4	Ea.	Transformer Type V	
625	8	6	14	Ea.	Disconnect switch with Type Y enclosure	
625	7	4	11	Ea.	Disconnect switch with Type Z enclosure	
625	14	7	21	Ea.	Ground rod	
625	14	7	21	Ea.	Sign service	
625	26	12	38	Ea.	Sign wired complete	
625	1	1	2	Ea.	Structure mounted sign wired, complete.	
625	1	1	2	Ea.	Sign service for structure mounted sign.	
815	3181.5	2130	5311.5	S.F.	Sign erection extra sheet type	
815	418.3	197	615.3	S.F.	Sign erection flat sheet type.	
816	83.8	56.6	140.4	C.Y.	Concrete for overhead sign support foundations.	
816	6.5	2.6	9.1	C.Y.	Concrete for ground mounted sign support foundations	
816	291.5	182	423.5	L.F.	Structural support, 4Lb drive post	
816	355	121	476	L.F.	Structural support, 6Lb beam	
816	237.5	69	306.5	L.F.	Structural support, 8Lb beam	
816		36	36	L.F.	Structural support, 6Lb beam, as per plan	
816		1	1	Ea.	Overhead sign support, Nº 74 design 1 Span 60' (Modified)	
816		1	1	Ea.	Overhead sign support, Nº 74 design 1 Span 64' (Modified)	

LD0303
12-29-67

INTERSTATE PARTICIPATION

Rural 90% Federal Funds, 10% State Funds

Urban { 90% Federal Funds; 5% State Funds; 5% City of Columbus Funds

[SUB]

GENERAL SUMMARY

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

CNTR: WD 2 3-70
UNIT: SAS 3-70

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

ITEM	Urban 19-24	25 251 260 253	40	R/W	56	57	F-202(5) SHEET NUMBER 19-25	40	R/W	95	104	105	171	172	173	180	181	182	183	212	231	253 & 260	Total Seeding Areas without Deductions to Calculations Urban	F-202(5)	Total Seeding Area with Deducts. from Calculations Urban	F-202(5)	100% State 19-25	Total 61-62	I-270-5 (18)117	100% State	Sub-Total Urban	Rural	F-202(5) Federal & State	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
																													Code 7223		code 8253				ROADWAY
201	Lump						Lump																				Lump	Lump		Lump	Lump	201	Lump	Lump	Clearing and Grubbing
202																48		88			290						Lump	Lump		Lump		202	Lump	Lump	Existing Structures Removed
202																			400								131	131		131	426	202	557	S.Y.	Existing Pavement Removed and Disposed of
202																270					119						255	255		255	400	202	655	S.F.	Existing Sidewalk Removed and Disposed of
202										268																	481	481		481	389	202	870	L.F.	Pipe Removed 24" and under
202										3							1														268	202	268	L.F.	Pipe Removed over 24"
202										2				1													2	2		2	4	202	6	Each	Manhole Removed or Abandoned
202																											6	6		6	3	202	9	Each	Catch Basin or Inlet Removed or Abandoned
203		182			83632	84379					1598	1775		344	2410	14737	8540	2765	602	1078	5940	189					227	227		227		202	227	L.F.	Existing Curb or Curb and Gutter Removed and disposed of
203																	8511		6161								829,608	1,000,901		171,293	829,608	39,978	203	1,040,879	C.Y.	Excavation not including embankment construction, as per plan
203		2501									7808	3118		2567	5298	368	4566	2038	22407	27676	112	167										13672	203	19672	C.Y.	Borrow, using granular material, as per plan, including the cost of excavation of unsuitable material
203		17494						63393																			843,597	844,158	2%	843,597	76,105	203	922,263	C.Y.	Embankment
203			6					21																			187666	205,160		17494	187666	63393	203	268553	S.Y.	Subgrade compaction
																											60	66		6	60	21	203	87	Hour	Proof rolling
410																											1100	1100			1100		615	1100	C.Y.	Traffic compacted surface, Type A or B
604				2					13																		86	88		2	86	13	604	101	Each	centerline reference monument
606																50		62.5									750	750			750	112.5	606	862.5	L.F.	Guard Rail, Type 4
606						150							550	1000	525			550	1062.5								11781.72	11931.72		150	11781.72	4187.5	606	16119.22	L.F.	Guard Rail, Type 5
606												~	50	902.46	639.28	318.25		~									2935.73	2935.73			2935.73	1909.99	606	4845.72	L.F.	Guard Rail, Type 5 Barrier Design
606						1							1	1	1	4		3	1								50	51		1	50	11	606	62	Each	Anchor Assembly
606						1							1	1	1			1									38	39		1	38	4	606	43	Each	Approach End Assembly, single rail
606													2	1	1	1											7	7			7	5	606	12	Each	Approach End Assembly, barrier rail
606														2	2				1								14	14			14	5	606	19	Each	Bridge Terminal Assembly
607				2813					9056																		16103	18,916		2813	16103	9056	607	27972	L.F.	Fence, Type CL
608																		2070	2125													4195	608	4195	S.F.	4" Concrete Walk
615																											Lump	Lump			Lump		615	Lump	Lump	Temporary Roads
616	50						150																				150	200		50	150	150	616	350	M. Gal.	Water
616	5						15																				34	39		5	34	15	616	54	Ton	Calcium Chloride
656																											185	185			185		656	185	M. SF.	Roadside Cleanup
Spec.							1																				55	55			55	1	Special	56	Each	Drilled Well Abandoned
Spec.																											13	13			13		Special	13	Each	Cleaning Privy Vaults
Spec.							2											1									64	64			64	3	Special	67	Each	Cleaning and Disposing of Septic Tanks
																																				EROSION CONTROL CODE Y005
601																					22											22	601	22	S.Y.	Riprap, using 6" reinforced concrete slab
601	3						7			4					2	5	6		3								15	18		3	15	7	601	25	S.Y.	Crushed Aggregate Slope Protection
601																											847	847			847	20	601	867	C.Y.	Rock Channel Protection, Type B
601																											26	26			26		601	26	C.Y.	Rock Channel Protection, as per plan
601																		40	20													60	601	60	L.F.	Paved Gutter, Standard Type 1-2
659			2.16				1.00	7.60																			38.77	40.93		2.16	38.77	8.60	659	49.53	Ton	Commercial Fertilizer (18-46-0), as per plan
659			1841					50.70																			258.52	272.93		18.41	258.52	50.70	659	323.63	Ton	Agricultural Liming, as per plan
659					18480	13555	10000				10391	11963		5833	8591	11062	15947	9885	8856	15431	4833		320351	1279	320321	08628	556290	588,322		320321	556290	108628	659	696950	S.Y.	Seeding and Mulching, as per plan
660										577							853	318	197		315	14					2505	2505			2505	2274	660	4779	S.Y.	Sodding
660														148													910	910			910	148	660	1058	S.Y.	Sodding for Special Berm and Slope Protection, as per plan
667										375								250									3484	3484			3484	625	667	4109	S.Y.	Seeding and Placing (Only) Jute Matting, as per plan
830														579	419												11312	11,312			11312	998	830	12310	S.Y.	Seeding and Excelsior Matting, as per plan
Spec.	340,000																										340,000			5,000	275,000	50,000	Special	340,000	S.Y.	Temporary Seeding & Mulching
Spec.	15																										13			1	12	2	Special	15	Ton	Commercial Fertilizer (12-12-12)
Spec.	160																										135			5	130	25	Special	160	M Gal.	Water
Spec.	5,400																										4900			400	4500	500	Special	5,400	Lin. Ft.	Temporary Slope Drains
Spec.	900																										845				825	75	Special	900	C.Y.	Temporary Benches, Dikes, Dams and Sediment Basins

INTERSTATE PARTICIPATION

Rural 90% Federal Funds, 10% State Funds

Urban { 90% Federal Funds; 5% State Funds; 5% City of Columbus Funds

GENERAL SUMMARY

CALC: WDH 3-70
CHK: SAS 3-70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39M
FRA-62-20.83

\# 270 L.F. Farm Drains
* 90 L.F. Farm Drains
* FARM DRAINS

ITEM	Urban 19-24	25* 157 200 202	40	R/W	56	57	F-202(5) 19-25	26-40	169	R/W	95	104	105	172	173	180	181	182	183	212	231	253
							SHEET NUMBER															
503		1029																				
509		150,155																				
511		1142.1																				
602											0.3				0.3	0.3	0.6		0.3		0.9	1.2
603																						
603																					68	
603																						154
603	30						90									278		136			236	
603	30						90															
603	30						90				70			8	142	344	586	110			100	
603																78	100					
603																	64					
603																						
603																		450	30			
603																						
603																						
603																						
603																						
603							50															
603																			62			
603											14											
603																			472			
603																	450					
603																		550				
603				800	607																	
603																						
603																						
603																						
603																					88	
603	15						45															
603	15						45															
603	15						45															
603	5						15				18			10	6	20	70	10	16	10	20	
603	5						15															
603	5						15															
603																						
603																						
604																	3		1			
604																	1					
604																						
604																4	2					
604																	1		2			
604															1				1			
604														1								
604																					1	
604							1											1	1			
604																	1					
604																	2					
604						1																

Sub-Total 100% State 19-25	41-42	Total I-270-5(18)117	100% State I-270-5(18)117	F-202(5) Urban	Rural	Federal & State	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
				Code 7223 →		Code 6203				DRAINAGE
		1029		1029			503	1029	C.Y.	Unclassified Excavation
		150,155		150,155			509	150,155	Lbs.	Reinforcing Steel
		1142.1		1142.1			511	1142.1	C.Y.	Class "C" Concrete
	3.9	3.9			3.9	3.9	602	7.8	C.Y.	Concrete Masonry
						68	603	68	L.F.	18" Conduit Type A 706.01, 706.02 or 706.08
						154	603	154	L.F.	48" Conduit Type A 706.02
	583	613 #		30	583	140 *	603	1953	L.F.	6" Conduit Type B
	180	210 *		30 *	180 *	90 *	603	300	L.F.	8" Conduit Type B
	412	412 #		30	382	1476 *	603	1888	L.F.	12" Conduit Type B
	654	654			654	178	603	832	L.F.	15" Conduit Type B
	274	274			274	64	603	338	L.F.	18" Conduit Type B
	504	504			504		603	504	L.F.	21" Conduit Type B
	462	462			462		603	462	L.F.	24" Conduit Type B
						480	603	480	L.F.	24" Conduit Type B 706.02 Class IV
	64	64			64		603	64	L.F.	27" Conduit Type B
	238	238			238		603	238	L.F.	27" Conduit Type B 706.02 Class III or 706.08
	106	106			106		603	106	L.F.	30" Conduit Type B
	562	562			562		603	562	L.F.	33" Conduit Type B 706.02 Class V
	744	744			744		603	744	L.F.	66" Conduit Type B
	198	198			198		603	198	L.F.	53" x 34" Conduit Type B Class HE-II 706.04
	54	54			54		603	54	L.F.	18" Conduit Type C 706.01ES, 706.02, 706.08ES or 707.13
	50	50			50	50	603	100	L.F.	6" Conduit Type C
						62	603	62	L.F.	12" Conduit Type C
						14	603	14	L.F.	18" Conduit Type C
						472	603	472	L.F.	24" Conduit Type C
	126	126			126	450	603	576	L.F.	24" Conduit Type C 706.02 Class III, 706.08 E.S. or 707.13
						550	603	550	L.F.	24" Conduit Type C 706.02 Class IV or 707.13 14 Ga.
	50	50			50		603	50	L.F.	27" Conduit Type C
	2453	3860		1407	2453		603	3860	L.F.	60" Conduit Type C
	1179	1179			1179		603	1179	L.F.	66" Conduit Type C
	184	184			184		603	184	L.F.	66" Conduit Type C 706.02 Class III or 707.13
	1232	1232			1232		603	1232	L.F.	72" Conduit Type C
	636	636			636	88	603	724	L.F.	12" Conduit Type D
	90	105		15	90	45	603	150	L.F.	6" Conduit Type E
	90	105		15	90	45	603	150	L.F.	8" Conduit Type E
	90	105		15	90	45	603	150	L.F.	12" Conduit Type E
	372	377		5	372	195	603	572	L.F.	6" Conduit Type F
	30	35		5	30	15	603	50	L.F.	8" Conduit Type F
	30	35		5	30	15	603	50	L.F.	12" Conduit Type F
	50	50			50		603	50	L.F.	15" Conduit Type F
	58	58			58		603	58	L.F.	18" Conduit Type F
						4	604	4	Each	Standard No. 1 Manhole
	1	1			1		604	1	Each	Standard No. 1-A Manhole
						1	604	1	Each	Standard No. 2 Manhole
	5	5			5	6	604	11	Each	Standard No. 2-A-6 Paved Shoulder Inlet
	2	2			2	3	604	5	Each	Standard No. 2-A-8 Paved Shoulder Inlet
						2	604	2	Each	Standard No. 2-A-10 Paved Shoulder Inlet
						1	604	1	Each	Standard No. 2-A-14 Paved Shoulder Inlet, as per plan
						1	604	1	Each	Standard No. 2-2-A Catch Basin
	1	1			1	2	604	3	Each	Standard No. 2-2-B Catch Basin
	1	1			1	1	604	2	Each	Standard No. 2-2-B Catch Basin as per plan
						1	604	1	Each	Standard No. 2-3 Catch Basin, as per plan
						2	604	2	Each	Standard No. 3 Catch Basin
	3	3			3		604	3	Each	Standard No. 4 Catch Basin
	3	4		1	3		604	4	Each	Standard No. 8-A Catch Basin

INTERSTATE PARTICIPATION

Rural 90% Federal Funds, 10% State Funds

Urban { 90% Federal Funds; 5% State Funds; 5% City of Columbus Funds

GENERAL SUMMARY

CALC: WDA 3-70
CHK: SAS 3-70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39M
FRA-62-20.83

45

Urban — F-202(5) — SHEET NUMBER

ITEM	19-24	40	R/W	56	57	19-25	40	169	R/W	95	104	105	172	173	180	181	182	183	212	231	253 to	236	100% State	19-24	41-42	Total I-270-5 (18)117	100% State	SUB TOTAL I-270-5(18)117 Urban	SUB TOTAL F-202(5) Rural	SUB TOTAL Federal & State	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
																												Code 7223 →		Code 6203					DRAINAGE (Cont'd)
604										1														10	10				10	1	604	11	Each	Standard No. 5 Catch Basin
604																								4	4				4		604	4	Each	Standard No. 5 Catch Basin Using "B" Grate
604																					1			5	5				5	1	604	6	Each	Standard No. 5-A Catch Basin
604										1														6	6				6	1	604	7	Each	Standard No. 6 Catch Basin, as per plan
604										3																				3	604	3	Each	Catch basin adjusted to grade
604										1																				1	604	1	Each	Manhole reconstructed to grade
604						1																		1	1				1	1	604	2	Each	Standard Inspection Well
605										1848			893	1435	747	950	583		232					17157	17,157				17157	6688	605	23845	L.F.	6" Shallow pipe underdrains
605				1592	1214										1117	1454	1334	60		636				15174	17,980		2806	15174	4601	605	22581	L.F.	6" Deep pipe underdrains
605						100																		100	100				100	100	605	200	L.F.	6" Unclassified pipe underdrains 707.01 Type III or 707.12 as per plan
605							2681																	6639	6639				6639	2681	605	9320	L.F.	Aggregate drains
605						10																		10	10				10	10	605	20	L.F.	Aggregate drains for springs, as per plan
																																			PAVEMENT CODE 7223
301		2413					12257																	31183	33,596		2413	31183	12257	301	45853	C.Y.	Bituminous Aggregate Base 702.01 (85-100) or 702.09 RT-11 or 12
304						4	2388								20					36				6935	6435				6935	2448	304	8883	C.Y.	Aggregate Base
310							8636																	14826	14,826				14826	8636	310	23462	C.Y.	Subbase
402							2285																	4001	4001				4001	2285	402	6286	C.Y.	Asphalt Concrete (70-85)
404							1666																	2943	2943				2943	1666	404	4609	C.Y.	Asphalt Concrete (70-85)
404						2									2					13				132	128	128	132	128		17	404	277	C.Y.	Asphalt Concrete (85-100)
407																								237		237				407	237	Gal.	Tack Coat; 702.04 MS-2 or RS-1; 702.02 RC-70 or RC-250
408																								331	331			331		408	331	Gal.	Bituminous Prime Coat 702.09, RT-2 or RT-3
409							124																	260	260			260	124	409	384	C.Y.	Seal Coat Cover Aggregate No. 8
409							4630																	9473	9473			9473	4630	409	14103	Gal.	Seal Coat Bituminous Material, as per plan
409																								249	249			249		409	249	Gal.	Seal Coat Bituminous Material 702.09 RT-9 or RT-10 702.02 MC-800 or MC-3000
451		13118																						54305	67,423		13118	54305		451	67423	S.Y.	8" Continuously Reinforced Portland Cement Concrete Pavement
452																				74										74	452	74	S.Y.	7" Plain Portland Cement Concrete Pavement
609																								93	93			93		609	93	L.F.	Combination Curb and Gutter, as per plan
609							5954																	7179	7179			7179	5954	609	13133	L.F.	Concrete Curb Standard, Type 6
609								117																833	833			833	117	609	950	L.F.	Concrete Curb Standard, Type 7
609								148																1238	1238			1238	148	609	1386	L.F.	Concrete Curb Standard, Type 8
611							403																	960	960			960	403	611	1363	S.Y.	Reinforced Concrete Approach Slabs (T=13")
612							529																	461	461			461	523	612	984	C.Y.	Concrete Median
SPECIAL																																			WATER WORKS CODE Y060
SPECIAL															10									10		10			10	20	SPECIAL	30	L.F.	6" Ductile Iron Water Pipe A.S.A. Class 4, Mech. Jt., Cement Lined
814															284															284	SPECIAL	284	L.F.	16" Ductile Iron Water Pipe A.S.A. Class 4, Mech. Jt., Cement Lined
814															1															1	814	1	Each	Fire Hydrant Removed and Reset as per plan
SPECIAL																								1	1			1		1	814	2	Each	Fire Hydrant Removed and Reset
SPECIAL															1															1	SPECIAL	1	Each	3/4" Corporation Cock
SPECIAL															25															25	SPECIAL	25	L.F.	3/4" Copper Water Service
SPECIAL															1															1	SPECIAL	1	Each	6" Gate Valve
SPECIAL															1															1	SPECIAL	1	Each	Cutting in 16"x6" Anchoring Tee Ductile Iron Cement Lined
SPECIAL															1															1	SPECIAL	1	Each	Water Service Tap Abandoned
															5.6															5.6	SPECIAL	5.6	C.Y.	Concrete Blocking Class "E"

TRAFFIC CONTROL CODE 7223

Lighting for Estimated Quantities See Sheet 302

Signing for Estimated Quantities See Sheet 272

Columbus Spec. No.
801
801
—
—
805
805
802
801
819
801

INTERSTATE PARTICIPATION

Rural 90% Federal Funds, 10% State Funds
Urban { 90% Federal Funds
5% State Funds
5% City of Columbus Funds

GENERAL SUMMARY

CALC: WDH 3-70
CHK: SAS 3-70

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.03

42

ITEM	SHEET NUMBER	R/W	Sub-Total I-270-5(18)117F-202(5) Urban	Sub-Total I-270-5(18)117F-202(5) Rural	Sub-Total I-270-5(18)117F-202(5) Federal & State	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
									STRUCTURES OVER 20' SPAN
									FRA-62-2095 over Stelzer Rd., see Sheet 407
									FRA-62-2166 under U.S.R.-62 NB & Ramp D, see Sheet 388
									FRA-62-2181 U.S.R.-62 SB under Ramp D, see Sheet 364
									FRA-270-2616 under Agler Rd., see Sheet 333
									FRA-270-2645 under U.S.R.-62 SB see Sheet 342
									FRA-270-2667 under Ramp I, see Sheet 372
									BUILDING REMOVALS Code 7223
		Lump		Lump		202	Lump	Lump	Parcel No. 70-WL, Removal of one 1-story block residence, one garage, one shed.
		Lump		Lump		202	Lump	Lump	Parcel No. 169-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No. 182-WL, Removal of one frame shed, one privy.
		Lump		Lump		202	Lump	Lump	Parcel No 188-WL, Removal of one 1-story concrete block residence, one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No. 196-WL, Removal of one 1-story frame residence, one 2-car frame garage.
		Lump		Lump		202	Lump	Lump	Parcel No. 202-WD, Removal of one 1-story frame residence.
		Lump		Lump		202	Lump	Lump	Parcel No. 210-WD, Removal of one 1½-story frame residence.
		Lump		Lump		202	Lump	Lump	Parcel No. 212-WL, Removal of one 1-story frame residence, one 2-car concrete block garage.
		Lump		Lump		202	Lump	Lump	Parcel No. 220-WL, Removal of one 1-story frame residence
		Lump		Lump		202	Lump	Lump	Parcel No. 240-WL, Removal of one 1-story frame residence, one privy.
		Lump		Lump		202	Lump	Lump	Parcel No. 267-WL, Removal of one 1½-story frame residence, one frame shed, one privy.
		Lump		Lump		202	Lump	Lump	Parcel No. 268-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No. 275-WL, Removal of one 1-story frame residence, one frame garage.
		Lump		Lump		202	Lump	Lump	Parcel No. 291-WL, Removal of one 1-story frame residence, one frame garage, one privy.
		Lump		Lump		202	Lump	Lump	Parcel No. 330-WL, Removal of one 1-story frame residence.
		Lump		Lump		202	Lump	Lump	Parcel No. 336-WL, Removal of one playhouse.
		Lump		Lump		202	Lump	Lump	Parcel No. 349-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No. 352-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No. 358-WL, Removal of one 1-story frame residence, one privy.
		Lump		Lump		202	Lump	Lump	Parcel No. 367-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No 476-WL, Removal of one 1-story block residence, one 2 car frame garage, one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel No 477-WL, Removal of one 1-story block residence, one 1-car concrete block garage, one privy.

INTERSTATE PARTICIPATION

Rural 90% Federal Funds, 10% State Funds

Urban { 90% Federal Funds / 5% State Funds / 5% City of Columbus Funds

GENERAL SUMMARY

CALC: WDL 3-70
CHK: SAS 3-70

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

47

ITEM	SHEET NUMBER	R/W	Sub-Total I-270-5(18)117 Urban	Sub-Total I-270-5(18)117 Rural	Sub-Total F-202(5) Federal & State	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
									BUILDING REMOVAL (cont'd)
		Lump		Lump		202	Lump	Lump	Parcel Nº 478-WL, Removal of one 1-story frame residence, one frame shed.
					Lump	202	Lump	Lump	Parcel Nº 479-WL, Removal of one 1-story frame residence, one 2-car concrete block garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 492-WL, Removal of one 1-story frame residence, one frame shed, one privy.
		Lump		Lump		202	Lump	Lump	Parcel Nº 495-WL, Removal of one 1-story frame residence.
		Lump		Lump		202	Lump	Lump	Parcel Nº 506-WL, Removal of one 1½-story frame residence, one frame shed.
					Lump	202	Lump	Lump	Parcel Nº 523-WL, Removal of one 1-story frame residence.
		Lump		Lump		202	Lump	Lump	Parcel Nº 535-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel Nº 559-WL, Removal of one privy.
		Lump		Lump		202	Lump	Lump	Parcel Nº 575-WL, Removal of one 1-story frome residence.
		Lump		Lump		202	Lump	Lump	Parcel Nº 593-WL, Removal of one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel Nº 603-WL, Removal of one frome shed.
		Lump		Lump		202	Lump	Lump	Parcel Nº 616-WL, Removal of one 1-story frame residence, one 2-car frame garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 617-WL, Removal of one 1-story frame residence with attached garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 625-WD, Removal of one 1-story frame residence, One garage
		Lump		Lump		202	Lump	Lump	Parcel Nº 636-WD, Removal of one 2½-story frame residence, one 2-car frame garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 642-WL, Removal of one 1-story frame residence, four frame sheds.
		Lump		Lump		202	Lump	Lump	Parcel Nº 643-WL, Removal of one frame shed, one privy.
		Lump		Lump		202	Lump	Lump	Parcel Nº 644-WL, Removal of one 1-story frame residence, one 2-car concrete block garage, one frame shed.
		Lump		Lump		202	Lump	Lump	Parcel Nº 656-WL, Removal of one frame barn.
		Lump		Lump		202	Lump	Lump	Parcel Nº 657-WL, Removal of one 1-story stucco residence, concrete block garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 659-WL, Removal of one stone split level residence, one garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 664-WL, Removal of one 1-story stone and frame residence with attached 2-car garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 666-WL, Removal of one 1-story stone residence with 2-car attached garage.
		Lump		Lump		202	Lump	Lump	Parcel Nº 677-WL, Removal of one 1-story stone residence.
		Lump		Lump		202	Lump	Lump	Parcel Nº 1000-T, Removal of one 1-story concrete block building.
			Lump	Lump	Lump	614	Lump	Lump	Maintaining traffic
			Lump	Lump	Lump	619	Lump	Lump	Field office
			Lump	Lump	Lump	619	Lump	Lump	Construction layout stakes

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA.-270-25.39N
FRA.-62-20.83

SUPERELEVATION TABLES

IR-270							
STATION	36'LT.	24'LT.	12'LT.	P. G.	12'RT.	24'RT.	36'RT.
1490+ 0.00				818.23	818.42	818.23	818.04
1490+25.00				818.17	818.36	818.19	818.02
1490+50.00				818.11	818.30	818.18	818.06
1490+75.00				818.05	818.24	818.18	818.12
1491+ 0.00	817.77	817.96	818.15	817.99	818.18	818.18	818.18
1491+25.00	817.62	817.81	818.00	817.93	818.12	818.18	818.24
1491+50.00	817.44	817.62	817.81	817.87	818.06	818.18	818.30
1491+75.00	817.26	817.45	817.65	817.81	818.01	818.19	818.36
1492+ 0.00	817.08	817.30	817.52	817.75	817.98	818.20	818.42
1492+25.00	816.90	817.16	817.43	817.69	817.95	818.22	818.48
1492+50.00	816.72	817.02	817.33	817.63	817.93	818.24	818.54
1492+75.00	816.54	816.88	817.23	817.57	817.91	818.26	818.60
1493+ 0.00	816.39	816.76	817.14	817.51	817.88	818.26	818.63
1493+25.00	816.30	816.68	817.07	817.45	817.83	818.22	818.60
1493+50.00	816.24	816.62	817.01	817.39	817.77	818.16	818.54
1493+75.00	816.18	816.56	816.95	817.33	817.71	818.10	818.48
1494+ 0.00	816.12	816.50	816.89	817.27	817.65	818.04	818.42
1494+25.00	816.06	816.44	816.83	817.21	817.59	817.98	818.36
1494+50.00	816.00	816.38	816.77	817.15	817.53	817.92	818.30
1494+75.00	815.94	816.32	816.71	817.09	817.47	817.86	818.24
1495+ 0.00	815.88	816.26	816.65	817.03	817.41	817.80	818.18
1495+25.00	815.82	816.20	816.59	816.97	817.35	817.74	818.12
1495+50.00	815.76	816.14	816.53	816.91	817.29	817.68	818.06
1495+75.00	815.70	816.08	816.47	816.85	817.23	817.62	818.00
1496+ 0.00	815.64	816.02	816.41	816.79	817.17	817.56	817.94
1496+25.00	815.58	815.96	816.35	816.73	817.11	817.50	817.88
1496+50.00	815.52	815.90	816.29	816.67	817.05	817.44	817.82
1496+75.00	815.46	815.84	816.23	816.61	816.99	817.38	817.76
1497+ 0.00	815.40	815.78	816.17	816.55	816.93	817.32	817.70
1497+25.00	815.34	815.72	816.11	816.49	816.87	817.26	817.64
1497+50.00	815.28	815.66	816.05	816.43	816.81	817.20	817.58
1497+75.00	815.22	815.60	815.99	816.37	816.75	817.14	817.52
1498+ 0.00	815.16	815.54	815.93	816.31	816.69	817.08	817.46
1498+25.00	815.10	815.48	815.87	816.25	816.63	817.02	817.40
1498+50.00	815.04	815.42	815.81	816.19	816.57	816.96	817.34
1498+75.00	814.98	815.36	815.75	816.13	816.51	816.90	817.28
1499+ 0.00	814.92	815.30	815.69	816.07	816.45	816.84	817.22
1499+25.00	814.86	815.24	815.63	816.01	816.39	816.78	817.16
1499+50.00	814.80	815.18	815.57	815.95	816.33	816.72	817.10
1499+75.00	814.74	815.12	815.51	815.89	816.27	816.66	817.04
1500+ 0.00	814.68	815.06	815.45	815.83	816.21	816.60	816.98
1500+25.00	814.62	815.00	815.39	815.77	816.15	816.54	816.92
1500+50.00	814.56	814.94	815.33	815.71	816.09	816.48	816.86
1500+75.00	814.50	814.88	815.27	815.65	816.03	816.42	816.80
1501+ 0.00	814.44	814.82	815.21	815.59	815.97	816.36	816.74
1501+25.00	814.38	814.76	815.15	815.53	815.91	816.30	816.68
1501+50.00	814.32	814.70	815.09	815.47	815.85	816.24	816.62
1501+75.00	814.26	814.64	815.03	815.41	815.79	816.18	816.56
1502+ 0.00	814.20	814.58	814.97	815.35	815.73	816.12	816.50
1502+25.00	814.14	814.52	814.91	815.29	815.67	816.06	816.44
1502+50.00	814.08	814.46	814.85	815.23	815.61	816.00	816.38
1502+75.00	814.02	814.40	814.79	815.17	815.55	815.94	816.32
1503+ 0.00	813.96	814.34	814.73	815.11	815.49	815.88	816.26
1503+25.00	813.90	814.28	814.67	815.05	815.43	815.82	816.20
1503+50.00	813.84	814.22	814.61	814.99	815.37	815.76	816.14
1503+75.00	813.78	814.16	814.55	814.93	815.31	815.70	816.08
1504+ 0.00	813.72	814.10	814.49	814.87	815.25	815.64	816.02
1504+25.00	813.66	814.04	814.43	814.81	815.19	815.58	815.96
1504+50.00	813.60	813.98	814.37	814.75	815.13	815.52	815.90
1504+75.00	813.54	813.92	814.31	814.69	815.07	815.46	815.84
1505+ 0.00	813.48	813.86	814.25	814.63	815.01	815.40	815.78
1505+25.00	813.42	813.80	814.19	814.57	814.95	815.34	815.72
1505+50.00	813.36	813.74	814.13	814.51	814.89	815.28	815.66
1505+75.00	813.30	813.68	814.07	814.45	814.83	815.22	815.60
1506+ 0.00	813.24	813.62	814.01	814.39	814.77	815.16	815.54
1506+25.00	813.18	813.56	813.95	814.33	814.71	815.10	815.48
1506+50.00	813.12	813.50	813.89	814.27	814.65	815.04	815.42
1506+75.00	813.06	813.44	813.83	814.21	814.59	814.98	815.36
1507+ 0.00	813.00	813.38	813.77	814.15	814.53	814.92	815.30
1507+25.00	812.94	813.32	813.71	814.09	814.47	814.86	815.24
1507+50.00	812.88	813.26	813.65	814.03	814.41	814.80	815.18

IR-270							
STATION	36'LT.	24'LT.	12'LT.	P. G.	12'RT.	24'RT.	36'RT.
1507+75.00	812.82	813.20	813.59	813.97	814.35	814.74	815.12
1508+ 0.00	812.76	813.14	813.53	813.91	814.29	814.68	815.06
1508+25.00	812.70	813.08	813.47	813.85	814.23	814.62	815.00
1508+50.00	812.64	813.02	813.41	813.79	814.17	814.56	814.94
1508+75.00	812.58	812.96	813.35	813.73	814.11	814.50	814.88
1509+ 0.00	812.52	812.90	813.29	813.67	814.05	814.44	814.82
1509+25.00	812.46	812.84	813.23	813.61	813.99	814.38	814.76
1509+50.00	812.40	812.78	813.17	813.55	813.93	814.32	814.70
1509+75.00	812.34	812.72	813.11	813.49	813.87	814.26	814.64
1510+ 0.00	812.28	812.66	813.05	813.43	813.81	814.20	814.58
1510+25.00	812.22	812.60	812.99	813.37	813.75	814.14	814.52
1510+50.00	812.16	812.54	812.93	813.31	813.69	814.08	814.46
1510+75.00	812.10	812.48	812.87	813.25	813.63	814.02	814.40
1511+ 0.00	812.04	812.42	812.81	813.19	813.57	813.96	814.34
1511+25.00	811.98	812.36	812.75	813.13	813.51	813.90	814.28
1511+50.00	811.92	812.30	812.69	813.07	813.45	813.84	814.22
1511+75.00	811.86	812.24	812.63	813.01	813.39	813.78	814.16
1512+ 0.00	811.80	812.18	812.57	812.95	813.33	813.72	814.10
1512+25.00	811.74	812.12	812.51	812.89	813.27	813.66	814.04
1512+50.00	811.68	812.06	812.45	812.83	813.21	813.60	813.98
1512+75.00	811.62	812.00	812.39	812.77	813.15	813.54	813.92
1513+ 0.00	811.56	811.94	812.33	812.71	813.09	813.48	813.86
1513+25.00	811.50	811.88	812.27	812.65	813.03	813.42	813.80
1513+50.00	811.44	811.82	812.21	812.59	812.97	813.36	813.74
1513+75.00	811.38	811.76	812.15	812.53	812.91	813.30	813.68
1514+ 0.00	811.32	811.70	812.09	812.47	812.85	813.24	813.62
1514+25.00	811.26	811.64	812.03	812.41	812.79	813.18	813.56
1514+50.00	811.20	811.58	811.97	812.35	812.73	813.12	813.50
1514+75.00	811.14	811.52	811.91	812.29	812.67	813.06	813.44
1515+ 0.00	811.08	811.46	811.85	812.23	812.61	813.00	813.38
1515+25.00	811.02	811.40	811.79	812.17	812.55	812.94	813.32
1515+50.00	810.96	811.34	811.73	812.11	812.49	812.88	813.26
1515+75.00	810.90	811.28	811.67	812.05	812.43	812.82	813.20
1516+ 0.00	810.84	811.22	811.61	811.99	812.37	812.76	813.14
1516+25.00	810.78	811.16	811.55	811.93	812.31	812.70	813.08
1516+50.00	810.72	811.10	811.49	811.87	812.25	812.64	813.02
1516+75.00	810.66	811.04	811.43	811.81	812.19	812.58	812.96
1517+ 0.00	810.60	810.98	811.37	811.75	812.13	812.52	812.90
1517+25.00	810.54	810.92	811.31	811.69	812.07	812.46	812.84
1517+50.00	810.48	810.86	811.25	811.63	812.01	812.40	812.78
1517+75.00	810.42	810.80	811.19	811.57	811.95	812.34	812.72
1518+ 0.00	810.36	810.74	811.13	811.51	811.89	812.28	812.66
1518+25.00	810.30	810.68	811.07	811.45	811.83	812.22	812.60
1518+50.00	810.24	810.62	811.01	811.39	811.77	812.16	812.54
1518+75.00	810.18	810.56	810.95	811.33	811.71	812.10	812.48
1519+ 0.00	810.12	810.50	810.89	811.27	811.65	812.04	812.42
1519+25.00	810.06	810.44	810.83	811.21	811.59	811.98	812.36
1519+50.00	810.00	810.38	810.77	811.15	811.53	811.92	812.30
1519+75.00	809.94	810.32	810.71	811.09	811.47	811.86	812.24
1520+ 0.00	809.85	810.24	810.64	811.03	811.42	811.82	812.21
1520+25.00	809.70	810.12	810.55	810.97	811.39	811.82	812.23
1520+50.00	809.53	809.99	810.45	810.91	811.37	811.83	812.29
1520+75.00	809.35	809.85	810.35	810.85	811.35	811.85	812.34
1521+ 0.00	809.18	809.71	810.25	810.79	811.33	811.87	812.40
1521+25.00	809.00	809.57	810.15	810.73	811.30	811.88	812.45
1521+50.00	808.83	809.44	810.06	810.67	811.28	811.90	812.51
1521+75.00	808.65	809.30	809.96	810.61	811.26	811.92	812.56
1522+ 0.00	808.48	809.16	809.86	810.55	811.24	811.94	812.62
1522+25.00	808.30	809.03	809.76	810.49	811.22	811.95	812.67
1522+50.00	808.16	808.91	809.67	810.43	811.19	811.95	812.70
1522+75.00	808.07	808.83	809.60	810.37	811.14	811.91	812.67
1523+ 0.00	808.01	808.77	809.54	810.31	811.08	811.85	812.61
1523+25.00	807.95	808.71	809.48	810.25	811.02	811.79	812.55
1523+50.00	807.89	808.65	809.42	810.19	810.96	811.73	812.49
1523+75.00	807.83	808.59	809.36	810.13	810.90	811.67	812.43
1524+ 0.00	807.77	808.53	809.30	810.07	810.84	811.61	812.37
1524+25.00	807.71	808.47	809.24	810.01	810.78	811.55	812.31
1524+50.00	807.65	808.41	809.18	809.95	810.72	811.49	812.25
1524+75.00	807.59	808.35	809.12	809.89	810.66	811.43	812.19
1525+ 0.00	807.53	808.29	809.06	809.83	810.60	811.37	812.13

SUPERELEVATION TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

RAMP "A"		
STATION	P. G.	16'RT.
1495+ 0.00	822.31	
1495+25.00	822.98	824.31
1495+50.00	823.65	824.98
1495+75.00	824.30	825.63
1496+ 0.00	824.91	826.24
1496+25.00	825.48	826.81
1496+50.00	826.02	827.35
1496+75.00	826.51	827.84
1497+ 0.00	826.97	828.30
1497+25.00	827.38	828.71
1497+50.00	827.76	829.09
1497+75.00	828.10	829.43
1498+ 0.00	828.40	829.73
1498+25.00	828.66	829.99
1498+50.00	828.88	830.21
1498+75.00	829.06	830.39
1499+ 0.00	829.21	830.54
1499+25.00	829.31	830.64
1499+50.00	829.38	830.71
1499+75.00	829.40	830.73
1500+ 0.00	829.39	830.72
1500+25.00	829.34	830.67
1500+50.00	829.25	830.58
1500+75.00	829.14	830.47
1501+ 0.00	829.03	830.36
1501+25.00	828.92	830.25
1501+50.00	828.81	830.14
1501+75.00	828.70	830.03
1502+ 0.00	828.59	829.92
1502+25.00	828.48	829.81
1502+50.00	828.37	829.70
1502+75.00	828.26	829.59
1503+ 0.00	828.15	829.48
1503+25.00	828.04	829.37
1503+50.00	827.93	829.26
1503+75.00	827.82	829.13
1504+ 0.00	827.71	828.95
1504+25.00	827.60	828.74
1504+50.00	827.49	828.54
1504+75.00	827.38	828.34
1505+ 0.00	827.28	828.14
1505+25.00	827.17	827.95
1505+50.00	827.08	827.76
1505+75.00	826.98	827.57
1506+ 0.00	826.89	827.38
1506+25.00	826.80	827.22
1506+50.00	826.72	827.12
1506+75.00	826.63	827.03
1507+ 0.00	826.56	826.96

RAMP "C"		
STATION	P.G.	16'RT.
1518+25.00	839.81	840.49
1518+50.00	839.97	841.10
1518+75.00	840.15	841.35
1519+ 0.00	840.37	841.64
1519+25.00	840.64	841.95
1519+50.00	840.95	842.28
1519+75.00	841.30	842.63
1520+ 0.00	841.69	843.02
1520+25.00	842.13	843.46
1520+50.00	842.61	843.94
1520+75.00	843.13	844.46
1521+ 0.00	843.69	845.02

RAMP "C" Contd.		
STATION	P. G.	16'RT.
1521+25.00	844.30	845.63
1521+50.00	844.95	846.28
1521+75.00	845.62	846.95
1522+ 0.00	846.29	847.62
1522+25.00	846.96	848.29
1522+50.00	847.63	848.96
1522+75.00	848.30	849.63
1523+ 0.00	848.94	850.27
1523+25.00	849.50	850.81
1523+50.00	850.00	851.22
1523+75.00	850.43	851.54
1524+ 0.00	850.79	851.79
1524+25.00	851.09	851.98
1524+50.00	851.31	852.09
1524+75.00	851.47	852.17
1525+ 0.00	851.56	852.23
1525+25.00	851.57	852.24
1525+50.00	851.53	852.20
1525+75.00	851.41	852.08
1526+ 0.00	851.22	851.89
1526+25.00	850.97	851.64
1526+50.00	850.64	851.31
1526+75.00	850.25	850.92
1527+ 0.00	849.79	850.46
1527+25.00	849.26	849.93
1527+50.00	848.67	849.34
1527+75.00	848.00	848.67

RAMP "D"			
STATION	P. G.	12'RT.	24'RT.
1488+ 0.00	816.97	817.66	818.35
1488+25.00	816.87	817.60	818.33
1488+50.00	816.77	817.54	818.31
1488+75.00	816.67	817.48	818.29
1489+ 0.00	816.57	817.41	818.25
1489+25.00	816.47	817.32	818.17
1489+50.00	816.37	817.22	818.07
1489+75.00	816.27	817.12	817.97
1490+ 0.00	816.17	817.02	817.87
1490+25.00	816.10	816.95	817.80
1490+50.00	816.07	816.92	817.77
1490+75.00	816.11	816.96	817.81
1491+ 0.00	816.19	817.04	817.89
1491+25.00	816.33	817.18	818.03
1491+50.00	816.51	817.36	818.21
1491+75.00	816.76	817.61	818.46
1492+ 0.00	817.05	817.90	818.75
1492+25.00	817.40	818.25	819.10
1492+50.00	817.79	818.64	819.49
1492+75.00	818.25	819.10	819.95
1493+ 0.00	818.75	819.59	820.43
1493+25.00	819.31	820.11	820.91
1493+50.00	819.91	820.67	821.43
1493+75.00	820.58	821.28	821.99
1494+ 0.00	821.29	821.95	822.61
1494+25.00	822.03	822.64	823.26
1494+50.00	822.77	823.34	823.90
1494+75.00	823.51	824.03	824.55
1495+ 0.00	824.25	824.72	825.19
1495+25.00	824.99	825.41	825.84
1495+50.00	825.73	826.11	826.49
1495+75.00	826.47	826.80	827.13
1496+ 0.00	827.21	827.49	827.77
1496+25.00	827.95	828.19	828.43
1496+50.00	828.69	828.89	829.09
1496+75.00	829.43	829.62	829.81
1497+ 0.00	830.17	830.36	830.55

RAMP "D" Contd.			
STATION	P. G.	12'RT.	24'RT.
1497+25.00	830.91	831.10	831.29
1497+50.00	831.65	831.84	832.03
1497+75.00	832.39	832.58	832.77
1498+ 0.00	833.13	833.32	833.51
1498+25.00	833.87	834.06	834.25
1498+50.00	834.51	834.80	834.99
1498+75.00	835.35	835.54	835.73
1499+ 0.00	836.09	836.28	836.47
1499+25.00	836.83	837.02	837.21
1499+50.00	837.57	837.76	837.95
1499+75.00	838.31	838.50	838.69
1500+ 0.00	839.05	839.24	839.43
1500+25.00	839.79	839.98	840.17
1500+50.00	840.51	840.70	840.89
1500+75.00	841.20	841.39	841.58
1501+ 0.00	841.86	842.05	842.24
1501+25.00	842.48	842.67	842.86
1501+50.00	843.07	843.26	843.45
1501+75.00	843.62	843.81	844.00
1502+ 0.00	844.14	844.33	844.52
1502+25.00	844.62	844.81	845.00
1502+50.00	845.08	845.27	845.46
1502+75.00	845.49	845.68	845.87
1503+ 0.00	845.88	846.07	846.26
1503+25.00	846.23	846.42	846.61
1503+50.00	846.54	846.73	846.92
1503+75.00	846.82	847.01	847.20
1504+ 0.00	847.07	847.26	847.45
1504+25.00	847.28	847.47	847.66
1504+50.00	847.46	847.63	847.80
1504+75.00	847.61	847.69	847.77
1505+ 0.00	847.72	847.69	847.66
1505+25.00	847.80	847.66	847.54
1505+50.00	847.84	847.62	847.42
1505+75.00	847.85	847.58	847.30
1506+ 0.00	847.83	847.50	847.16
1506+25.00	847.77	847.38	847.00
1506+50.00	847.68	847.24	846.79
1506+75.00	847.56	847.06	846.56
1507+ 0.00	847.40	846.84	846.29
1507+25.00	847.20	846.59	845.98
1507+50.00	846.98	846.31	845.64
1507+75.00	846.71	845.99	845.27
1508+ 0.00	846.42	845.64	844.86
1508+25.00	846.09	845.26	844.42
1508+50.00	845.73	844.84	843.95
1508+75.00	845.33	844.38	843.44
1509+ 0.00	844.90	843.91	842.93
1509+25.00	844.43	843.43	842.43
1509+50.00	843.93	842.93	841.93
1509+75.00	843.40	842.40	841.40
1510+ 0.00	842.85	841.85	840.85
1510+25.00	842.31	841.31	840.31
1510+50.00	841.81	840.81	839.81
1510+75.00	841.33	840.33	839.33
1511+ 0.00	840.88	839.88	838.88
1511+25.00	840.47	839.47	838.47
1511+50.00	840.08	839.08	838.08
1511+75.00	839.72	838.72	837.72
1512+ 0.00	839.39	838.39	837.39
1512+25.00	839.09	838.09	837.09
1512+50.00	838.81	837.81	836.81
1512+75.00	838.57	837.57	836.57
1513+ 0.00	838.36	837.36	836.36
1513+25.00	838.17	837.17	836.17
1513+50.00	838.02	837.02	836.02
1513+75.00	837.88	836.88	835.88
1514+ 0.00	837.74	836.74	835.74
1514+25.00	837.60	836.60	835.60
1514+50.00	837.46	836.46	835.46
1514+75.00	837.32	836.32	835.32
1515+ 0.00	837.18	836.18	835.18
1515+25.00	837.04	836.04	835.04

RAMP "E"			
STATION	24'LT.	12'LT.	P. G.
1517+75.00	826.97	826.28	825.60
1518+ 0.00	826.85	826.08	825.31
1518+25.00	826.72	825.86	825.01
1518+50.00	826.58	825.64	824.70
1518+75.00	826.35	825.36	824.37
1519+ 0.00	826.03	825.03	824.03
1519+25.00	825.67	824.67	823.67
1519+50.00	825.30	824.30	823.30
1519+75.00	824.91	823.91	822.91
1520+ 0.00	824.51	823.51	822.51
1520+25.00	824.09	823.09	822.09
1520+50.00	823.66	822.66	821.66
1520+75.00	823.21	822.21	821.21
1521+ 0.00	822.75	821.75	820.75
1521+25.00	822.27	821.27	820.27
1521+50.00	821.78	820.78	819.78
1521+75.00	821.27	820.27	819.27
1522+ 0.00	820.75	819.75	818.75
1522+25.00	820.21	819.21	818.21
1522+50.00	819.66	818.66	817.66
1522+75.00	819.09	818.09	817.09
1523+ 0.00	818.51	817.51	816.51
1523+25.00	817.91	816.91	815.91
1523+50.00	817.30	816.30	815.30
1523+75.00	816.67	815.67	814.67
1524+ 0.00	816.03	815.03	814.03

RAMP "F"		
STATION	16'LT.	P.G.
1513+75.00	814.57	814.07
1514+ 0.00	814.55	813.95
1514+25.00	814.57	813.86
1514+50.00	814.63	813.82
1514+75.00	814.76	813.84
1515+ 0.00	814.94	813.92
1515+25.00	815.18	814.06
1515+50.00	815.47	814.25
1515+75.00	815.80	814.49
1516+ 0.00	816.13	814.80
1516+25.00	816.49	815.16
1516+50.00	816.90	815.57
1516+75.00	817.37	816.04
1517+ 0.00	817.90	816.57
1517+25.00	818.49	817.16
1517+50.00	819.13	817.80
1517+75.00	819.80	818.47
1518+ 0.00	820.47	819.14
1518+25.00	821.14	819.81
1518+50.00	821.81	820.48
1518+75.00	822.48	821.15
1519+ 0.00	823.15	821.82
1519+25.00	823.82	822.49
1519+50.00	824.49	823.16
1519+75.00	825.15	823.82
1520+ 0.00	825.78	824.45
1520+25.00	826.39	825.06
1520+50.00	826.98	825.65
1520+75.00	827.55	826.22
1521+ 0.00	828.09	826.76
1521+25.00	828.61	827.28
1521+50.00	829.10	827.77
1521+75.00	829.57	828.24
1522+ 0.00	830.02	828.69
1522+25.00	830.45	829.12
1522+50.00	830.85	829.52

SUPERELEVATION TABLES

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

52

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

RAMP "G"		
STATION	16' LT.	P.G.
1496+ 0.00	818.52	818.27
1496+25.00	818.57	818.21
1496+50.00	818.63	818.15
1496+75.00	818.68	818.09
1497+ 0.00	818.74	818.03
1497+25.00	818.80	817.97
1497+50.00	818.86	817.92
1497+75.00	818.92	817.89
1498+ 0.00	818.94	817.88
1498+25.00	818.94	817.88
1498+50.00	818.97	817.91
1498+75.00	819.02	817.96
1499+ 0.00	819.08	818.02
1499+25.00	819.17	818.11
1499+50.00	819.27	818.21
1499+75.00	819.40	818.34
1500+ 0.00	819.54	818.48
1500+25.00	819.70	818.64
1500+50.00	819.89	818.83
1500+75.00	820.09	819.03
1501+ 0.00	820.28	819.25
1501+25.00	820.43	819.49
1501+50.00	820.56	819.74
1501+75.00	820.69	819.99
1502+ 0.00	820.82	820.24
1502+25.00	820.95	820.49
1502+50.00	821.08	820.74
1502+75.00	821.21	820.99
1503+ 0.00	821.34	821.24
1503+25.00	821.47	821.49
1503+50.00	821.60	821.74
1503+75.00	821.74	821.99
1504+ 0.00	821.87	822.24
1504+25.00	822.00	822.49
1504+50.00	822.13	822.74
1504+75.00	822.26	822.99
1505+ 0.00	822.39	823.24
1505+25.00	822.52	823.49
1505+50.00	822.65	823.74
1505+75.00	822.78	823.99
1506+ 0.00	822.94	824.24
1506+25.00	823.16	824.49
1506+50.00	823.41	824.74
1506+75.00	823.66	824.99
1507+ 0.00	823.91	825.24
1507+25.00	824.16	825.49
1507+50.00	824.41	825.74
1507+75.00	824.66	825.99
1508+ 0.00	824.91	826.24
1508+25.00	825.16	826.49
1508+50.00	825.41	826.74
1508+75.00	825.69	826.99
1509+ 0.00	826.03	827.24
1509+25.00	826.40	827.49
1509+50.00	826.76	827.73
1509+75.00	827.11	827.95
1510+ 0.00	827.43	828.16
1510+25.00	827.74	828.34
1510+50.00	828.03	828.51
1510+75.00	828.30	828.66
1511+ 0.00	828.55	828.79
1511+25.00	828.78	828.90
1511+50.00	829.00	829.00
1511+75.00	829.19	829.07
1512+ 0.00	829.37	829.13
1512+25.00	829.53	829.17
1512+50.00	829.67	829.19
1512+75.00	829.80	829.19
1513+ 0.00	829.90	829.18
1513+25.00	829.99	829.14
1513+50.00	830.06	829.09
1513+75.00	830.11	829.02

RAMP "G" Contd		
STATION	16' LT.	P.G.
1514+ 0.00	830.14	828.93
1514+25.00	830.12	828.82
1514+50.00	830.03	828.70
1514+75.00	829.88	828.55
1515+ 0.00	829.72	828.39
1515+25.00	829.54	828.21
1515+50.00	829.35	828.02

RAMP "H"		
STATION	16' LT.	P.G.
1496+ 0.00	833.87	832.57
1496+25.00	833.46	832.13
1496+50.00	833.01	831.68
1496+75.00	832.54	831.21
1497+ 0.00	832.06	830.73
1497+25.00	831.56	830.23
1497+50.00	831.05	829.72
1497+75.00	830.52	829.19
1498+ 0.00	829.98	828.65
1498+25.00	829.43	828.10
1498+50.00	828.88	827.55
1498+75.00	828.33	827.00
1499+ 0.00	827.78	826.45
1499+25.00	827.23	825.90
1499+50.00	826.68	825.35
1499+75.00	826.13	824.80
1500+ 0.00	825.58	824.25
1500+25.00	825.03	823.70
1500+50.00	824.48	823.15
1500+75.00	823.93	822.60
1501+ 0.00	823.38	822.05
1501+25.00	822.83	821.50
1501+50.00	822.28	820.95
1501+75.00	821.73	820.40
1502+ 0.00	821.18	819.85
1502+25.00	820.63	819.30
1502+50.00	820.08	818.75
1502+75.00	819.55	818.22
1503+ 0.00	819.05	817.72
1503+25.00	818.59	817.26
1503+50.00	818.16	816.83
1503+75.00	817.78	816.45
1504+ 0.00	817.42	816.09
1504+25.00	817.10	815.77
1504+50.00	816.82	815.49
1504+75.00	816.57	815.24
1505+ 0.00	816.36	815.03
1505+25.00	816.19	814.86
1505+50.00	816.04	814.71

RAMP "I"			
STATION	P. G.	12' RT.	24' RT.
1504+ 0.00	823.82	823.03	822.23
1504+25.00	824.25	823.41	822.57
1504+50.00	824.72	823.87	823.02
1504+75.00	825.25	824.40	823.55
1505+ 0.00	825.82	824.97	824.12
1505+25.00	826.42	825.57	824.72
1505+50.00	827.02	826.17	825.32
1505+75.00	827.62	826.77	825.92
1506+ 0.00	828.22	827.37	826.52
1506+25.00	828.82	827.97	827.12
1506+50.00	829.42	828.57	827.72
1506+75.00	830.02	829.17	828.32

RAMP "I" Contd.			
STATION	P. G.	12' RT.	24' RT.
1507+ 0.00	830.62	829.77	828.92
1507+25.00	831.22	830.37	829.52
1507+50.00	831.82	830.97	830.12
1507+75.00	832.42	831.57	830.72
1508+ 0.00	833.02	832.17	831.32
1508+25.00	833.62	832.77	831.92
1508+50.00	834.22	833.37	832.52
1508+75.00	834.82	833.97	833.12
1509+ 0.00	835.42	834.57	833.72
1509+25.00	836.02	835.17	834.32
1509+50.00	836.62	835.77	834.92
1509+75.00	837.22	836.37	835.52
1510+ 0.00	837.82	836.97	836.12
1510+25.00	838.42	837.57	836.72
1510+50.00	839.02	838.17	837.32
1510+75.00	839.62	838.77	837.92
1511+ 0.00	840.22	839.37	838.52
1511+25.00	840.82	839.97	839.12
1511+50.00	841.42	840.57	839.72
1511+75.00	842.02	841.17	840.32
1512+ 0.00	842.62	841.77	840.92
1512+25.00	843.22	842.37	841.52
1512+50.00	843.82	842.97	842.12
1512+75.00	844.42	843.57	842.72
1513+ 0.00	845.02	844.17	843.32
1513+25.00	845.62	844.77	843.92
1513+50.00	846.22	845.37	844.52
1513+75.00	846.82	845.97	845.12
1514+ 0.00	847.42	846.57	845.72
1514+25.00	848.02	847.17	846.32
1514+50.00	848.62	847.77	846.92
1514+75.00	849.22	848.37	847.52
1515+ 0.00	849.82	848.97	848.12
1515+25.00	850.42	849.57	848.72
1515+50.00	851.02	850.17	849.32
1515+75.00	851.62	850.77	849.92
1516+ 0.00	852.22	851.37	850.52
1516+25.00	852.81	851.96	851.11
1516+50.00	853.36	852.51	851.66
1516+75.00	853.89	853.04	852.19
1517+ 0.00	854.39	853.54	852.69
1517+25.00	854.86	854.01	853.16
1517+50.00	855.30	854.45	853.60
1517+75.00	855.71	854.86	854.01
1518+ 0.00	856.09	855.24	854.39
1518+25.00	856.45	855.60	854.75
1518+50.00	856.77	855.92	855.07
1518+75.00	857.07	856.22	855.37
1519+ 0.00	857.34	856.49	855.64
1519+25.00	857.58	856.73	855.88
1519+50.00	857.79	856.94	856.09
1519+75.00	857.97	857.11	856.25
1520+ 0.00	858.12	857.23	856.34
1520+25.00	858.24	857.32	856.39
1520+50.00	858.34	857.37	856.41
1520+75.00	858.40	857.41	856.42
1521+ 0.00	858.44	857.44	856.44
1521+25.00	858.44	857.44	856.44
1521+50.00	858.42	857.42	856.42
1521+75.00	858.37	857.37	856.37
1522+ 0.00	858.29	857.29	856.29
1522+25.00	858.18	857.18	856.18
1522+50.00	858.05	857.05	856.05
1522+75.00	857.88	856.88	855.88
1523+ 0.00	857.69	856.69	855.69
1523+25.00	857.46	856.46	855.46
1523+50.00	857.21	856.21	855.21
1523+75.00	856.93	855.93	854.93
1524+ 0.00	856.62	855.62	854.62
1524+25.00	856.28	855.28	854.28
1524+50.00	855.91	854.91	853.91
1524+75.00	855.51	854.51	853.51

RAMP "I" Contd.			
STATION	P. G.	12' RT.	24' RT.
1525+ 0.00	855.08	854.08	853.08
1525+25.00	854.63	853.63	852.63
1525+50.00	854.14	853.14	852.14

RAMP "J"		
STATION	16' LT.	P. G.
1111+50.00	813.94	814.49
1111+75.00	814.51	815.17
1112+ 0.00	815.09	815.85
1112+25.00	815.67	816.53
1112+50.00	816.25	817.21
1112+75.00	816.86	817.89
1113+ 0.00	817.51	818.57
1113+25.00	818.19	819.25
1113+50.00	818.87	819.93
1113+75.00	819.55	820.61
1114+ 0.00	820.23	821.29
1114+25.00	820.89	821.95
1114+50.00	821.51	822.57
1114+75.00	822.14	823.16
1115+ 0.00	822.80	823.70
1115+25.00	823.47	824.21
1115+50.00	824.10	824.67
1115+75.00	824.69	825.10
1116+ 0.00	825.25	825.49
1116+25.00	825.76	825.84
1116+50.00	826.23	826.15
1116+75.00	826.67	826.43
1117+ 0.00	827.07	826.66

RAMP "K"		
STATION	P. G.	16' RT.
1117+ 0.00	816.97	817.22
1117+25.00	817.22	817.47
1117+50.00	817.47	817.72
1117+75.00	817.72	817.97
1118+ 0.00	817.97	818.22
1118+25.00	818.22	818.47
1118+50.00	818.47	818.72
1118+75.00	818.72	818.97
1119+ 0.00	818.97	819.22
1119+25.00	819.22	819.47
1119+50.00	819.47	819.72
1119+75.00	819.72	819.97
1120+ 0.00	819.97	820.22
1120+25.00	820.21	820.46
1120+50.00	820.44	820.69
1120+75.00	820.65	820.90
1121+ 0.00	820.85	821.10
1121+25.00	821.03	821.28
1121+50.00	821.20	821.45
1121+75.00	821.35	821.60
1122+ 0.00	821.49	821.74
1122+25.00	821.61	821.86
1122+50.00	821.72	821.97
1122+75.00	821.81	822.06
1123+ 0.00	821.89	822.14
1123+25.00	821.95	822.20
1123+50.00	822.00	822.25
1123+75.00	822.03	822.28
1124+ 0.00	822.05	822.30
1124+25.00	822.05	822.30
1124+50.00	822.04	822.30
1124+75.00	822.01	822.30
1125+ 0.00	821.97	822.29
1125+25.00	821.91	822.27
1125+50.00	821.84	822.23
1125+75.00	821.75	822.15
1126+ 0.00	821.65	822.05

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA.-270-25.39 N
FRA-62-20.83

SUPERELEVATION TABLES

USR 62						OFFSET FROM
STATION	24'LT.	12'LT.	P. G.	12'RT.	24'RT.	℄ TO P.G.
1194+ 0.00	813.66	813.85	813.66	813.85	813.66	10.00
1194+25.00	813.67	813.86	813.67	813.86	813.67	10.00
1194+50.00	813.71	813.88	813.69	813.87	813.68	10.00
1194+75.00	813.78	813.92	813.73	813.86	813.67	10.00
1195+ 0.00	813.88	813.96	813.77	813.86	813.67	10.00
1195+25.00	814.00	814.02	813.83	813.86	813.67	10.00
1195+50.00	814.12	814.09	813.90	813.88	813.69	10.00
1195+75.00	814.26	814.18	813.99	813.90	813.71	10.00
1196+ 0.00	814.41	814.27	814.08	813.94	813.75	10.00
1196+25.00	814.55	814.37	814.18	814.00	813.81	9.98
1196+50.00	814.66	814.47	814.28	814.09	813.90	9.91
1196+75.00	814.76	814.57	814.38	814.19	814.00	9.84
1197+ 0.00	814.86	814.67	814.48	814.29	814.10	9.77
1197+25.00	814.96	814.77	814.58	814.39	814.20	9.70
1197+50.00	815.06	814.87	814.68	814.49	814.30	9.63
1197+75.00	815.16	814.97	814.78	814.59	814.40	9.56
1198+ 0.00	815.26	815.07	814.88	814.69	814.50	9.49
1198+25.00	815.36	815.17	814.98	814.79	814.60	9.42
1198+50.00	815.46	815.27	815.08	814.89	814.70	9.35
1198+75.00	815.56	815.37	815.18	814.99	814.80	9.28
1199+ 0.00	815.66	815.47	815.28	815.09	814.90	9.21
1199+25.00	815.76	815.57	815.38	815.19	815.00	9.14
1199+50.00	815.86	815.67	815.48	815.29	815.10	9.07
1199+75.00	815.96	815.77	815.58	815.39	815.20	9.00
1200+ 0.00	816.06	815.87	815.68	815.49	815.30	8.93
1200+25.00	816.16	815.97	815.78	815.59	815.40	8.86
1200+50.00	816.26	316.07	815.88	815.69	815.50	8.79
1200+75.00	816.36	816.17	815.98	815.79	815.60	8.72
1201+ 0.00	816.46	816.27	816.08	815.89	815.70	8.65
1201+25.00	816.56	816.37	816.18	815.99	815.80	8.58
1201+50.00	816.60	816.44	816.28	816.09	815.90	8.51
1201+75.00	816.63	816.51	816.38	816.19	816.00	8.44
1202+ 0.00	816.67	816.57	816.48	816.29	816.10	8.37
1202+25.00	816.69	816.63	816.56	816.37	816.18	8.30
1202+50.00	816.68	816.65	816.62	816.43	816.24	8.23
1202+75.00	816.64	816.64	816.64	816.45	816.26	8.16
1203+ 0.00	816.57	816.60	816.63	816.44	816.25	8.09
1203+25.00						8.02
1203+50.00						8.00

RAMP "F" EXTENSION		
STATION	P. G.	16'RT.
1145+ 0.00	834.36	834.11
1145+25.00	834.49	834.24
1145+50.00	834.61	834.36
1145+75.00	834.72	834.47
1146+ 0.00	834.81	834.56
1146+25.00	834.88	834.61
1146+50.00	834.94	834.63
1146+75.00	834.98	834.62
1147+ 0.00	835.01	834.59
1147+25.00	835.02	834.55
1147+50.00	835.01	834.49
1147+75.00	834.99	834.42
1148+ 0.00	834.96	834.33
1148+25.00	834.90	834.22
1148+50.00	834.83	834.10
1148+75.00	834.75	833.97
1149+ 0.00	834.65	833.81
1149+25.00	834.53	833.64
1149+50.00	834.40	833.47
1149+75.00	834.25	833.31
1150+ 0.00	834.09	833.15
1150+25.00	833.91	832.97
1150+50.00	833.71	832.77
1150+75.00	833.50	832.56
1151+ 0.00	833.28	832.34
1151+25.00	833.03	832.09
1151+50.00	832.77	831.83
1151+75.00	832.50	831.56
1152+ 0.00	832.21	831.27
1152+25.00	831.90	830.96
1152+50.00	831.58	830.64
1152+75.00	831.25	830.31
1153+ 0.00	830.92	829.98
1153+25.00	830.59	829.65
1153+50.00	830.26	829.32
1153+75.00	829.93	828.99
1154+ 0.00	829.60	828.66
1154+25.00	829.28	828.34
1154+50.00	828.97	828.03
1154+75.00	828.68	827.74
1155+ 0.00	828.40	827.46
1155+25.00	828.14	827.20
1155+50.00	827.89	826.95
1155+75.00	827.66	826.72
1156+ 0.00	827.44	826.50
1156+25.00	827.24	826.30
1156+50.00	827.05	826.11
1156+75.00	826.88	825.94
1157+ 0.00	826.72	825.78
1157+25.00	826.58	825.64
1157+50.00	826.45	825.51
1157+75.00	826.34	825.40
1158+ 0.00	826.24	825.30

RAMP "F" EXTENTION Contd.		
STATION	P. G.	16'RT.
1158+25.00	826.15	825.21
1158+50.00	826.06	825.12
1158+75.00	825.97	825.03
1159+ 0.00	825.88	824.94
1159+25.00	825.79	824.85
1159+50.00	825.70	824.76
1159+75.00	825.61	824.67
1160+ 0.00	825.52	824.58
1160+25.00	825.43	824.49
1160+50.00	825.34	824.40
1160+75.00	825.25	824.31
1161+ 0.00	825.16	824.22
1161+25.00	825.07	824.13
1161+50.00	824.98	824.04
1161+75.00	824.89	823.95
1162+ 0.00	824.80	823.86
1162+25.00	824.71	823.77
1162+50.00	824.62	823.68
1162+75.00	824.53	823.59
1163+ 0.00	824.44	823.50
1163+25.00	824.35	823.41
1163+50.00	824.26	823.32
1163+75.00	824.17	823.23
1164+ 0.00	824.08	823.14
1164+25.00	823.99	823.05
1164+50.00	823.90	822.96
1164+75.00	823.81	822.87
1165+ 0.00	823.72	822.79
1165+25.00	823.63	822.74
1165+50.00	823.54	822.70
1165+75.00	823.45	822.67
1166+ 0.00	823.36	822.63
1166+25.00	823.27	822.59
1166+50.00	823.18	822.55
1166+75.00	823.09	822.52
1167+ 0.00	823.00	822.48
1167+25.00	822.91	822.44
1167+50.00	822.82	822.40
1167+75.00	822.73	822.37
1168+ 0.00	822.64	822.33
1168+25.00	822.55	822.28
1168+50.00	822.46	822.21
1168+75.00	822.37	822.12
1169+ 0.00	822.28	822.03
1169+25.00	822.19	821.94
1169+50.00	822.06	821.85
1169+75.00	821.86	821.76
1170+ 0.00	821.63	821.67
1170+25.00	821.39	821.58
1170+50.00	821.15	821.49
1170+75.00	820.92	821.40
1171+ 0.00	820.72	821.25

SUPERELEVATION TABLES

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

USR 62 NB.				
STATION	36'LT.	24'LT.	12'LT.	P. G.
1120+50.00	827.60	827.80	827.99	827.80
1120+75.00	827.54	827.67	827.81	827.62
1121+ 0.00	827.46	827.55	827.63	827.44
1121+25.00	827.38	827.42	827.45	827.26
1121+50.00	827.31	827.29	827.27	827.08
1121+75.00	827.23	827.16	827.09	826.90
1122+ 0.00	827.15	827.03	826.91	826.72
1122+25.00	827.08	826.91	826.74	826.54
1122+50.00	827.02	826.80	826.58	826.36
1122+75.00	826.96	826.70	826.44	826.18
1123+ 0.00	826.91	826.60	826.30	826.00
1123+25.00	826.85	826.51	826.16	825.82
1123+50.00	826.80	826.41	826.03	825.64
1123+75.00	826.75	826.31	825.89	825.46
1124+ 0.00	826.69	826.22	825.75	825.28
1124+25.00	826.64	826.12	825.61	825.10
1124+50.00	826.55	826.00	825.46	824.92
1124+75.00	826.40	825.84	825.29	824.74
1125+ 0.00	826.22	825.66	825.11	824.56
1125+25.00	826.04	825.48	824.93	824.38
1125+50.00	825.86	825.30	824.75	824.20
1125+75.00	825.68	825.12	824.57	824.02
1126+ 0.00	825.50	824.94	824.39	823.84
1126+25.00	825.32	824.76	824.21	823.66
1126+50.00	825.14	824.58	824.03	823.48
1126+75.00	824.96	824.40	823.85	823.30
1127+ 0.00	824.78	824.22	823.67	823.12
1127+25.00	824.60	824.04	823.49	822.94
1127+50.00	824.42	823.86	823.31	822.76
1127+75.00	824.24	823.68	823.13	822.58
1128+ 0.00	824.06	823.50	822.95	822.40
1128+25.00	823.88	823.32	822.77	822.22
1128+50.00	823.71	823.15	822.60	822.05
1128+75.00	823.55	822.99	822.44	821.89
1129+ 0.00	823.40	822.85	822.31	821.77
1129+25.00	823.21	822.69	822.18	821.67
1129+50.00	823.02	822.54	822.07	821.60
1129+75.00	822.85	822.42	821.99	821.56
1130+ 0.00	822.72	822.32	821.93	821.54
1130+25.00	822.61	822.26	821.91	821.56
1130+50.00	822.53	822.22	821.91	821.60
1130+75.00	822.48	822.21	821.94	821.67
1131+ 0.00	822.46	822.23	822.00	821.77
1131+25.00	822.50	822.30	822.10	821.90
1131+50.00	822.62	822.43	822.24	822.05
1131+75.00	822.81	822.62	822.43	822.24
1132+ 0.00	823.02	822.83	822.64	822.45
1132+25.00	823.23	823.05	822.87	822.69
1132+50.00	823.40	823.25	823.10	822.95
1132+75.00	823.55	823.44	823.33	823.22
1133+ 0.00	823.69	823.63	823.56	823.49
1133+25.00	823.84	823.82	823.79	823.76
1133+50.00	823.99	824.00	824.02	824.03
1133+75.00	824.13	824.19	824.25	824.30
1134+ 0.00	824.28	824.38	824.48	824.57
1134+25.00	824.43	824.57	824.71	824.84
1134+50.00	824.58	824.75	824.93	825.11
1134+75.00	824.72	824.94	825.16	825.38
1135+ 0.00	824.87	825.13	825.39	825.65
1135+25.00	825.02	825.32	825.62	825.92
1135+50.00	825.16	825.51	825.85	826.19

USR 62 NB.				
STATION	36'LT.	24'LT.	12'LT.	P. G.
1135+75.00	825.31	825.69	826.08	826.46
1136+ 0.00	825.46	825.88	826.31	826.73
1136+25.00	825.60	826.07	826.54	827.00
1136+50.00	825.75	826.26	826.77	827.27
1136+75.00	825.90	826.45	826.99	827.54
1137+ 0.00	826.04	826.63	827.22	827.81
1137+25.00	826.19	826.82	827.45	828.08
1137+50.00	826.34	827.01	827.68	828.35
1137+75.00	826.48	827.20	827.91	828.62
1138+ 0.00	826.63	827.39	828.14	828.89
1138+25.00	826.78	827.57	828.37	829.16
1138+50.00	826.92	827.76	828.60	829.43
1138+75.00	827.07	827.95	828.83	829.70
1139+ 0.00	827.22	828.14	829.05	829.97
1139+25.00	827.37	828.32	829.28	830.24
1139+50.00	827.54	828.53	829.52	830.51
1139+75.00	827.78	828.78	829.78	830.78
1140+ 0.00	828.05	829.05	830.05	831.05
1140+25.00	828.32	829.32	830.32	831.32
1140+50.00	828.59	829.59	830.59	831.59
1146+ 0.00		835.53	836.53	837.53
1146+25.00		835.80	836.80	837.80
1146+50.00		836.07	837.07	838.07
1146+75.00		836.34	837.34	838.34
1147+ 0.00		836.61	837.61	838.61
1147+25.00		836.88	837.88	838.88
1147+50.00		837.15	838.15	839.15
1147+75.00		837.42	838.42	839.42
1148+ 0.00		837.68	838.68	839.68
1148+25.00		837.92	838.92	839.92
1148+50.00		838.17	839.16	840.14
1148+75.00		838.46	839.40	840.35
1149+ 0.00		838.75	839.64	840.53
1149+25.00		839.03	839.86	840.69
1149+50.00		839.28	840.06	840.84
1149+75.00		839.52	840.24	840.96
1150+ 0.00		839.74	840.40	841.07
1150+25.00		839.94	840.55	841.16
1150+50.00		840.11	840.67	841.23
1150+75.00		840.27	840.77	841.27
1151+ 0.00		840.41	840.86	841.30
1151+25.00		840.54	840.92	841.31
1151+50.00		840.64	840.97	841.30
1151+75.00		840.72	841.00	841.28
1152+ 0.00		840.78	841.01	841.23
1152+25.00		840.83	841.00	841.16
1152+50.00		840.85	840.96	841.08
1152+75.00		840.86	840.91	840.97
1153+ 0.00		840.85	840.85	840.85
1153+25.00		840.81	840.76	840.70
1153+50.00		840.76	840.65	840.54
1153+75.00		840.69	840.52	840.36
1154+ 0.00		840.60	840.38	840.15
1154+25.00		840.49	840.21	839.93
1154+50.00		840.36	840.03	839.69
1154+75.00		840.21	839.82	839.43
1155+ 0.00		840.04	839.60	839.16
1155+25.00		839.86	839.36	838.86
1155+50.00		839.65	839.10	838.54
1155+75.00		839.43	838.82	838.20
1156+ 0.00		839.18	838.52	837.85

USR 62 NB.				
STATION	36'LT.	24'LT.	12'LT.	P. G.
1156+25.00		838.92	838.20	837.47
1156+50.00		838.63	837.86	837.08
1156+75.00		838.33	837.50	836.67
1157+ 0.00		838.01	837.12	836.23
1157+25.00		837.67	836.73	835.78
1157+50.00		837.28	836.30	835.31
1157+75.00		836.82	835.82	834.82
1158+ 0.00		836.32	835.32	834.32
1158+25.00		835.82	834.82	833.82
1158+50.00		835.32	834.32	833.32
1158+75.00		834.82	833.82	832.82
1159+ 0.00		834.32	833.32	832.32
1159+25.00		833.82	832.82	831.82
1159+50.00		833.32	832.32	831.32
1159+75.00		832.82	831.82	830.82
1160+ 0.00		832.32	831.32	830.32
1160+25.00		831.82	830.82	829.82
1160+50.00		831.32	830.32	829.32
1160+75.00		830.82	829.82	828.82
1161+ 0.00		830.32	829.32	828.32
1161+25.00		829.83	828.83	827.83
1161+50.00		829.37	828.37	827.37
1161+75.00		828.93	827.93	826.93
1162+ 0.00		828.51	827.51	826.51
1162+25.00		828.12	827.12	826.12
1162+50.00		827.75	826.75	825.75
1162+75.00		827.40	826.40	825.40
1163+ 0.00		827.08	826.08	825.08
1163+25.00		826.78	825.78	824.78
1163+50.00		826.51	825.51	824.51
1163+75.00		826.26	825.26	824.26
1164+ 0.00		826.03	825.03	824.03
1164+25.00		825.83	824.83	823.83
1164+50.00		825.65	824.65	823.65
1164+75.00		825.49	824.49	823.49
1165+ 0.00		825.36	824.36	823.36
1165+25.00		825.24	824.24	823.24
1165+50.00		825.12	824.12	823.12
1165+75.00		825.00	824.00	823.00
1166+ 0.00		824.88	823.88	822.88
1166+25.00		824.76	823.76	822.76
1166+50.00		824.64	823.64	822.64
1166+75.00		824.52	823.52	822.52
1167+ 0.00		824.36	823.38	822.40

SUPERELEVATION TABLES

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

55

FRANKLIN COUNTY
FRA.-270-25.39 N
FRA-62-20.83

USR 62 SB.			
STATION	24'LT.	12' LT.	P.G.
1130+75.00	821.12	821.31	821.12
1131+ 0.00	821.28	821.47	821.28
1131+25.00	821.47	821.66	821.47
1131+50.00	821.68	821.87	821.68
1131+75.00	821.92	822.11	821.92
1132+ 0.00	822.16	822.35	822.16
1132+25.00	822.40	822.59	822.40
1132+50.00	822.64	822.83	822.64
1132+75.00	822.88	823.07	822.88
1133+ 0.00	823.12	823.31	823.12
1133+25.00	823.36	823.55	823.36
1133+50.00	823.60	823.79	823.60
1133+75.00	823.84	824.03	823.84
1134+ 0.00	824.08	824.27	824.08
1134+25.00	824.32	824.51	824.32
1134+50.00	824.56	824.75	824.56
1134+75.00	824.80	824.99	824.80
1135+ 0.00	825.04	825.23	825.04
1135+25.00	825.28	825.47	825.28
1135+50.00	825.52	825.71	825.52
1135+75.00	825.76	825.95	825.76
1136+ 0.00	826.00	826.19	826.00
1136+25.00	826.24	826.43	826.24
1136+50.00	826.48	826.67	826.48
1136+75.00	826.72	826.91	826.72
1137+ 0.00	826.96	827.15	826.96
1137+25.00	827.20	827.39	827.20
1137+50.00	827.44	827.63	827.44
1137+75.00	827.68	827.87	827.68
1138+ 0.00	827.92	828.11	827.92
1138+25.00	828.16	828.35	828.16
1138+50.00	828.40	828.59	828.40
1138+75.00	828.64	828.83	828.64
1139+ 0.00	828.88	829.07	828.88
1139+25.00	829.12	829.31	829.12
1139+50.00	829.36	829.55	829.36
1139+75.00	829.60	829.79	829.60
1140+ 0.00	829.84	830.03	829.84
1140+25.00	830.08	830.27	830.08
1140+50.00	830.32	830.51	830.32
1140+75.00	830.56	830.75	830.56
1141+ 0.00	830.80	830.99	830.80
1141+25.00	831.04	831.23	831.04
1141+50.00	831.28	831.47	831.28
1141+75.00	831.52	831.71	831.52
1142+ 0.00	831.76	831.95	831.76
1142+25.00	832.00	832.19	832.00
1142+50.00	832.24	832.43	832.24
1142+75.00	832.48	832.67	832.48
1143+ 0.00	832.72	832.91	832.72
1143+25.00	832.96	833.15	832.96
1143+50.00	833.20	833.39	833.20
1143+75.00	833.43	833.62	833.43
1144+ 0.00	833.65	833.84	833.65
1144+25.00	833.85	834.04	833.85
1144+50.00	834.03	834.22	834.03
1144+75.00	834.20	834.39	834.20
1145+ 0.00	834.37	834.55	834.36
1145+25.00	834.57	834.68	834.49
1145+50.00	834.77	834.80	834.61
1145+75.00	834.96	834.91	834.72
1146+ 0.00	835.12	835.00	834.81
1146+25.00	835.28	835.09	834.88
1146+50.00	835.41	835.18	834.94
1146+75.00	835.53	835.26	834.98
1147+ 0.00	835.64	835.32	835.01
1147+25.00	835.73	835.37	835.02

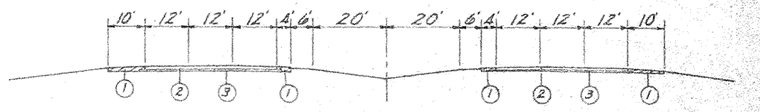
USR 62 SB.			
STATION	24'LT.	12' LT.	P.G.
1147+50.00	835.80	835.41	835.01
1147+75.00	835.86	835.43	834.99
1148+ 0.00	835.90	835.43	834.96
1148+25.00	835.93	835.41	834.90
1148+50.00	835.94	835.39	834.83
1148+75.00	835.93	835.34	834.75
1149+ 0.00	835.91	835.28	834.65
1149+25.00	835.87	835.20	834.53
1149+50.00	835.80	835.10	834.40
1149+75.00	835.67	834.96	834.25
1150+ 0.00	835.51	834.80	834.09
1150+25.00	835.33	834.62	833.91
1150+50.00	835.13	834.42	833.71
1150+75.00	834.92	834.21	833.50
1151+ 0.00	834.70	833.99	833.28
1151+25.00	834.45	833.74	833.03
1151+50.00	834.19	833.48	832.77
1151+75.00	833.92	833.21	832.50
1152+ 0.00	833.63	832.92	832.21
1152+25.00	833.32	832.61	831.90
1152+50.00	833.00	832.29	831.58
1152+75.00	832.67	831.96	831.25
1153+ 0.00	832.34	831.63	830.92
1153+25.00	832.01	831.30	830.59
1153+50.00	831.68	830.97	830.26
1153+75.00	831.35	830.64	829.93
1154+ 0.00	831.02	830.31	829.60
1154+25.00	830.70	829.99	829.28
1154+50.00	830.39	829.68	828.97
1154+75.00	830.10	829.39	828.68
1155+ 0.00	829.82	829.11	828.40
1155+25.00	829.56	828.85	828.14
1155+50.00	829.31	828.60	827.89
1155+75.00	829.08	828.37	827.66
1156+ 0.00	828.86	828.15	827.44
1156+25.00	828.66	827.95	827.24
1156+50.00	828.47	827.76	827.05
1156+75.00	828.30	827.59	826.88
1157+ 0.00	828.14	827.43	826.72
1157+25.00	828.00	827.29	826.58
1157+50.00	827.87	827.16	826.45
1157+75.00	827.76	827.05	826.34
1158+ 0.00	827.66	826.95	826.24
1158+25.00	827.57	826.86	826.15
1158+50.00	827.48	826.77	826.06
1158+75.00	827.39	826.68	825.97
1159+ 0.00	827.30	826.59	825.88
1159+25.00	827.21	826.50	825.79
1159+50.00	827.12	826.41	825.70
1159+75.00	827.03	826.32	825.61
1160+ 0.00	826.94	826.23	825.52
1160+25.00	826.85	826.14	825.43
1160+50.00	826.76	826.05	825.34
1160+75.00	826.67	825.96	825.25
1161+ 0.00	826.58	825.87	825.16
1161+25.00	826.49	825.78	825.07
1161+50.00	826.40	825.69	824.98
1161+75.00	826.31	825.60	824.89
1162+ 0.00	826.22	825.51	824.80
1162+25.00	826.13	825.42	824.71
1162+50.00	826.04	825.33	824.62
1162+75.00	825.95	825.24	824.53
1163+ 0.00	825.86	825.15	824.44
1163+25.00	825.77	825.06	824.35
1163+50.00	825.68	824.97	824.26
1163+75.00	825.59	824.88	824.17
1164+ 0.00	825.50	824.79	824.08

USR 62 SB.			
STATION	24'LT.	12' LT.	P.G.
1164+25.00	825.41	824.70	823.99
1164+50.00	825.32	824.61	823.90
1164+75.00	825.23	824.52	823.81
1165+ 0.00	825.12	824.42	823.72
1165+25.00	824.97	824.30	823.63
1165+50.00	824.80	824.17	823.54
1165+75.00	824.63	824.04	823.45
1166+ 0.00	824.46	823.91	823.36
1166+25.00	824.30	823.78	823.27
1166+50.00	824.13	823.65	823.18
1166+75.00	823.96	823.52	823.09
1167+ 0.00	823.79	823.39	823.00
1167+25.00	823.62	823.27	822.91
1167+50.00	823.45	823.14	822.82
1167+75.00	823.28	823.01	822.73
1168+ 0.00	823.11	822.88	822.64
1168+25.00	822.94	822.75	822.55
1168+50.00	822.78	822.65	822.46
1168+75.00	822.61	822.56	822.37
1169+ 0.00	822.44	822.47	822.28
1169+25.00	822.27	822.38	822.19
1169+50.00	822.12	822.29	822.10
1169+75.00	822.01	822.20	822.01
1170+ 0.00	821.92	822.11	821.92
1170+25.00	821.83	822.02	821.83
1170+50.00	821.74	821.93	821.74
1170+75.00	821.65	821.84	821.65
1171+ 0.00	821.56	821.75	821.56
1171+25.00	821.47	821.66	821.47
1171+50.00	821.38	821.57	821.38
1171+75.00	821.29	821.48	821.29
1172+ 0.00	821.20	821.39	821.20
1172+25.00	821.11	821.30	821.11
1172+50.00	821.02	821.21	821.02
1172+75.00	820.93	821.12	820.93
1173+ 0.00	820.84	821.03	820.84
1173+25.00	820.75	820.94	820.75
1173+50.00	820.66	820.85	820.66
1173+75.00	820.57	820.76	820.57
1174+ 0.00	820.48	820.67	820.48
1174+25.00	820.39	820.58	820.39
1174+50.00	820.30	820.49	820.30
1174+75.00	820.21	820.40	820.21
1175+ 0.00	820.12	820.31	820.12
1175+25.00	820.03	820.22	820.03
1175+50.00	819.94	820.13	819.94
1175+75.00	819.85	820.04	819.85
1176+ 0.00	819.76	819.95	819.76
1176+25.00	819.67	819.86	819.67
1176+50.00	819.58	819.77	819.58
1176+75.00	819.49	819.68	819.49
1177+ 0.00	819.40	819.59	819.40
1177+25.00	819.31	819.50	819.31
1177+50.00	819.22	819.41	819.22
1177+75.00	819.13	819.32	819.13
1178+ 0.00	819.04	819.23	819.04
1178+25.00	818.95	819.14	818.95
1178+50.00	818.86	819.05	818.86
1178+75.00	818.77	818.96	818.77
1179+ 0.00	818.68	818.87	818.68
1179+25.00	818.59	818.78	818.59
1179+50.00	818.50	818.69	818.50
1179+75.00	818.41	818.60	818.41
1180+ 0.00	818.32	818.51	818.32

CALC SAS 1-70	SEQ NO	STATE	PROJECT	56
CHK WDL 2-70	2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

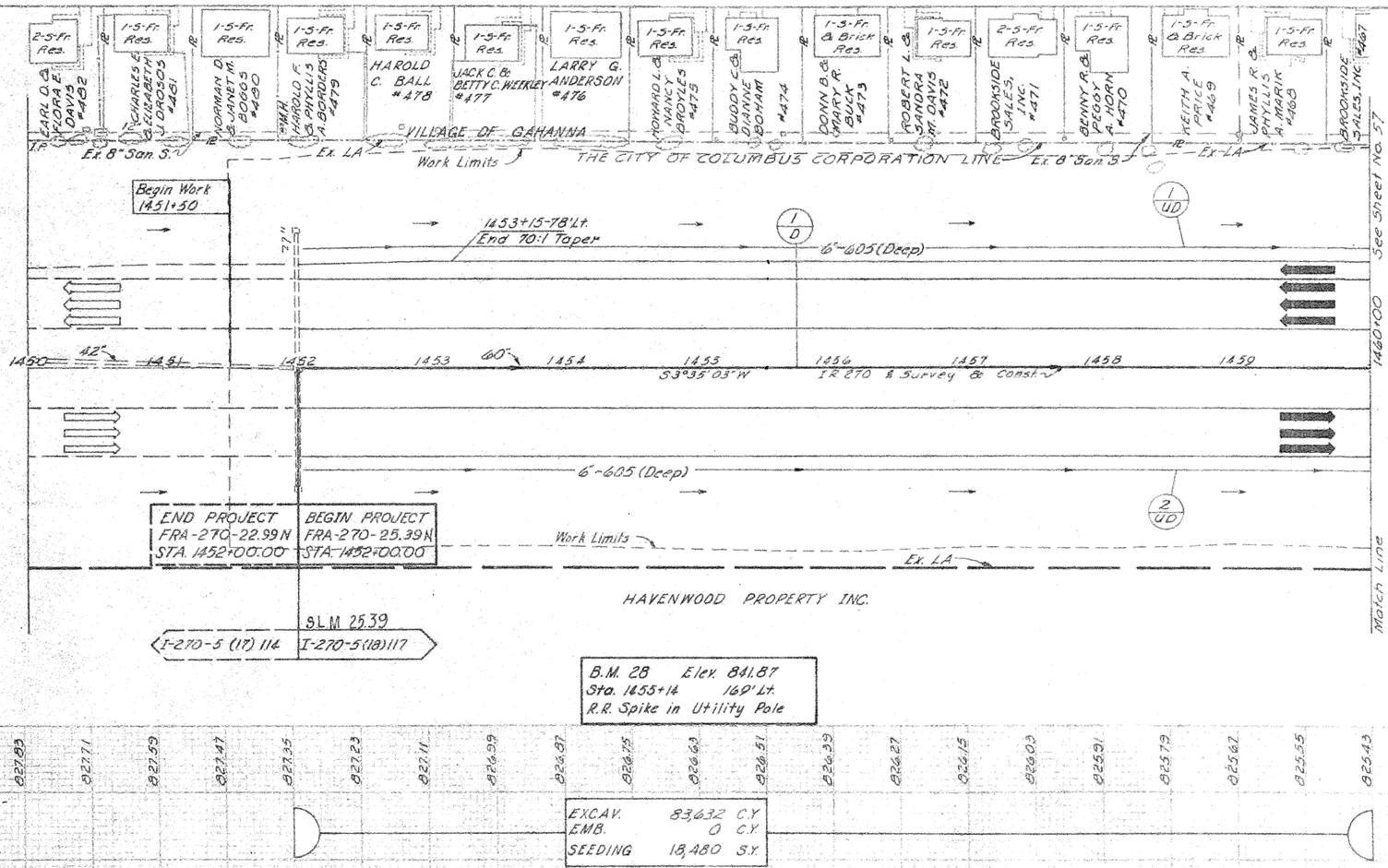
EXISTING TYPICAL ON ADJACENT PROJECT



(1) Bituminous Aggregate Base
(2) 8" Continuously Reinforced Concrete Pavement
(3) Cement Stabilized Subbase

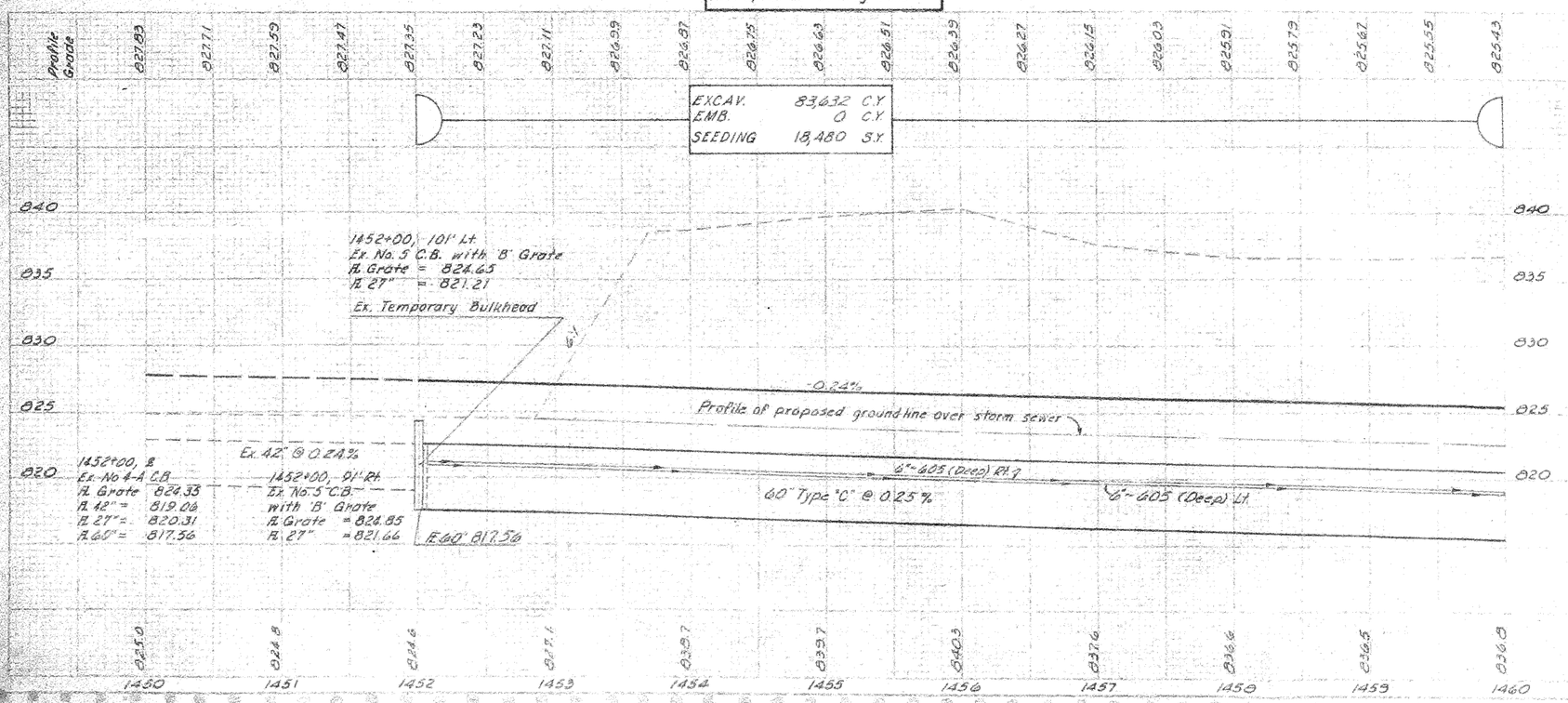
NOTES:

1. Cross Slope shall be 3/16"/ft. across outside Lane on left.
2. Cost for removing the temporary bulkhead should be included in the unit price bid for Item 603 60" Conduit.



B.M. 28 Elev. 841.87
Sta. 1455+14 169' Lt.
R.R. Spike in Utility Pole

EXCAV.	83,632	C.Y.
EMB.	0	C.Y.
SEEDING	18,480	S.Y.



REF.	STATION TO STATION	SIDE	603 60" Type "C" L.F.
1-D	1452+00 to 1460+00	℄	800
	TOTALS URBAN		800

REF.	STATION TO STATION	SIDE	605 "Deep" 6" L.F.
1-UD	1452+04 to 1460+00	Lt.	796
2-UD	1452+04 to 1460+00	Rt.	796
	TOTALS URBAN		1592

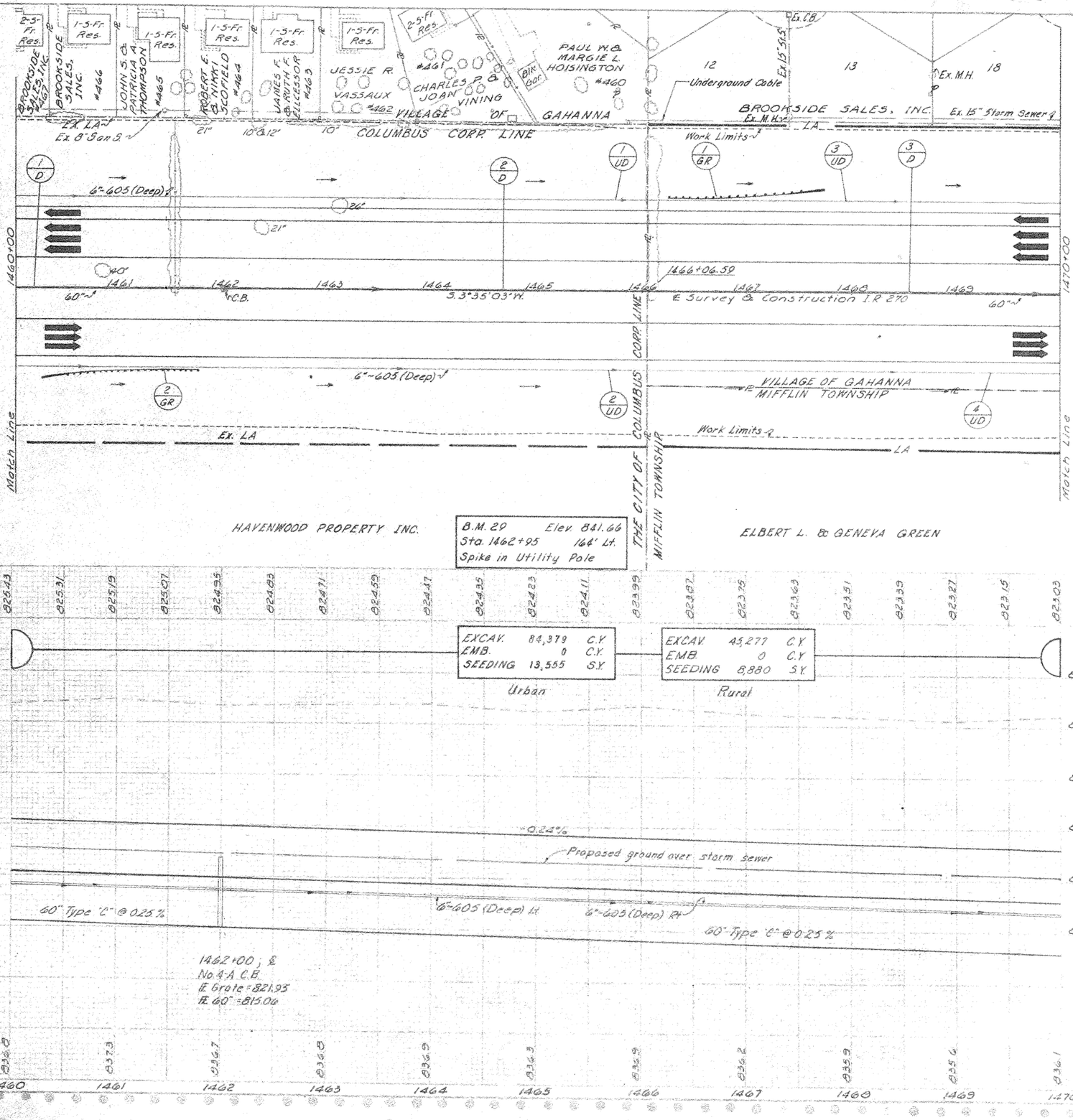
STA. 1450+00 TO STA. 1460+00

FED. REG. DIVISION	STATE	PROJECT		
2	OHIO			

57

SAS 1-70
W.O. 2-70

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83



B.M. 29 Elev. 841.66
Sta. 1462+95 164' Lt.
Spike in Utility Pole

NOTES:

1. Cross Slope of 4/16"/ft shall be maintained across left lane.

* Urban

REF.	STATION TO STATION	SIDE	603 60" TYPE C	604 No 4A C.B.	606 GUARD RAIL TYPE 5	606 APP END ASSY.	606 ANCHOR ASSY.	SEE DETAIL SHEET Nº
			LF	EA.	LF	EA.	EA.	
1-D	1460+00 to 1462+00	℄	200 *					66
2-D	1462+00 to 1466+06.59	℄	407 *	1 *				
3-D	1466+06.59 to 1470+00	℄	393					
1-GR	1466+25 to 1467+75	Lt.			150	1	1	
2-GR	1460+25 to 1461+75	Rt.			150 *	1 *	1 *	
	TOTALS URBAN *		607	1	150	1	1	
	TOTALS RURAL		393		150	1	1	

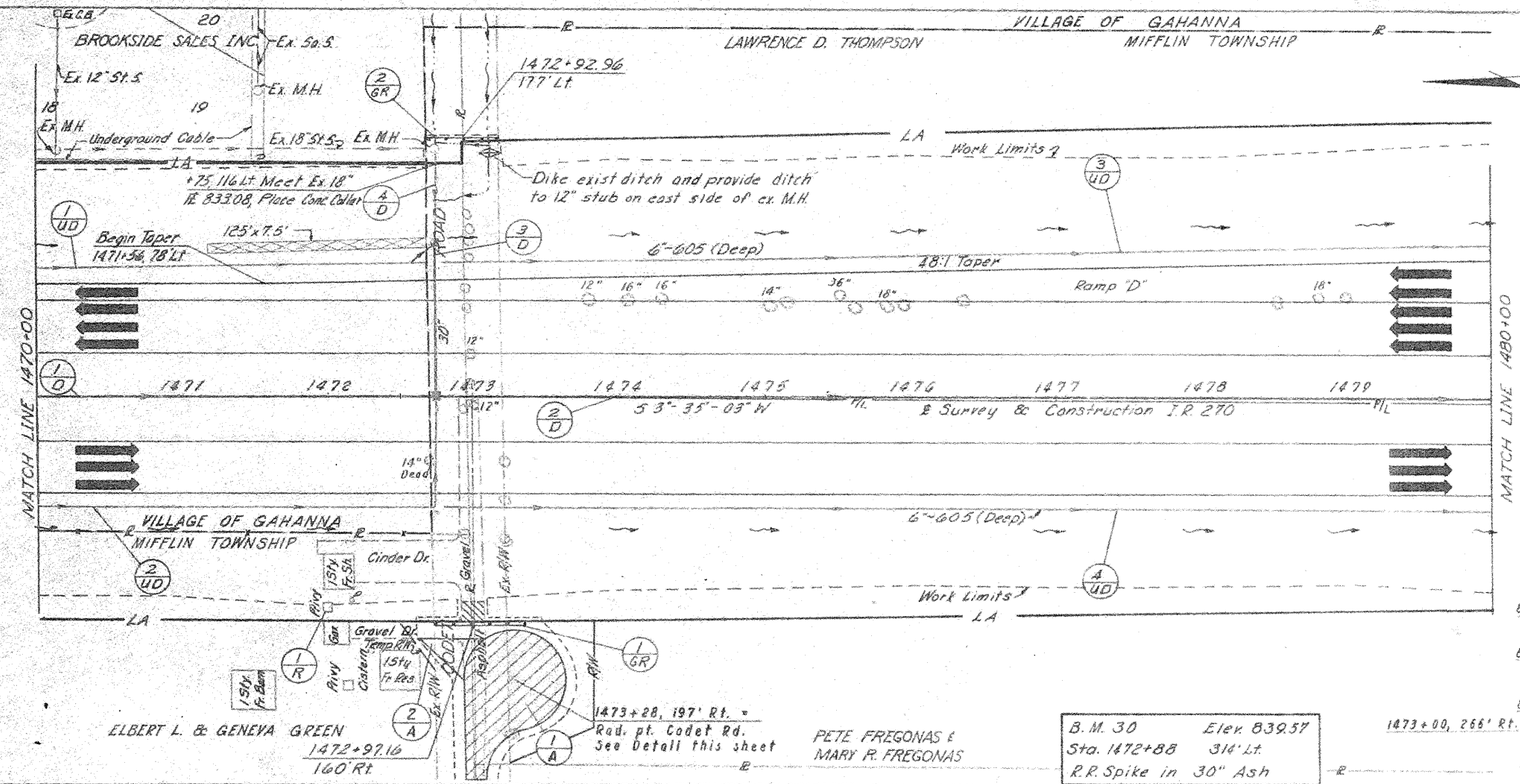
REF.	STATION TO STATION	SIDE	605 Deep 6"	
			L.F.	
1-UD	1460+00 to 1466+06.59	Lt.	607 *	
2-UD	1460+00 to 1466+06.59	Rt.	607 *	
3-UD	1466+06.59 to 1470+00	Lt.	393	
4-UD	1466+06.59 to 1470+00	Rt.	393	
	TOTALS URBAN *		1214	
	TOTALS RURAL		786	

STA. 1460+00 TO STA. 1470+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 R
FRA-62-20.83

CALC SAS 1-70
CHK WDH 2-70



Scarification of Exist. Pav't.

2" of 404 on 9" of 304

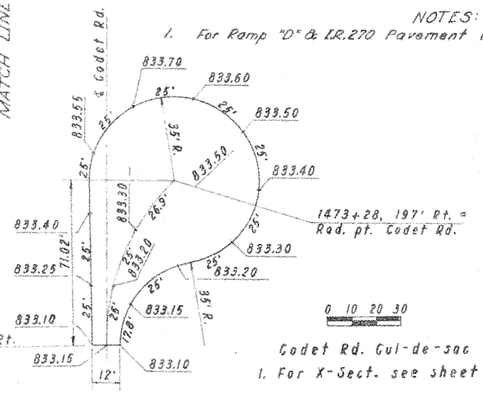
8" of 304

(1/A) Item 404 $[\frac{1}{2}(\pi)(35)^2 + (35+47)(\div 2)(71.02)](0.167) \div 27 = 29.9$ C.Y.

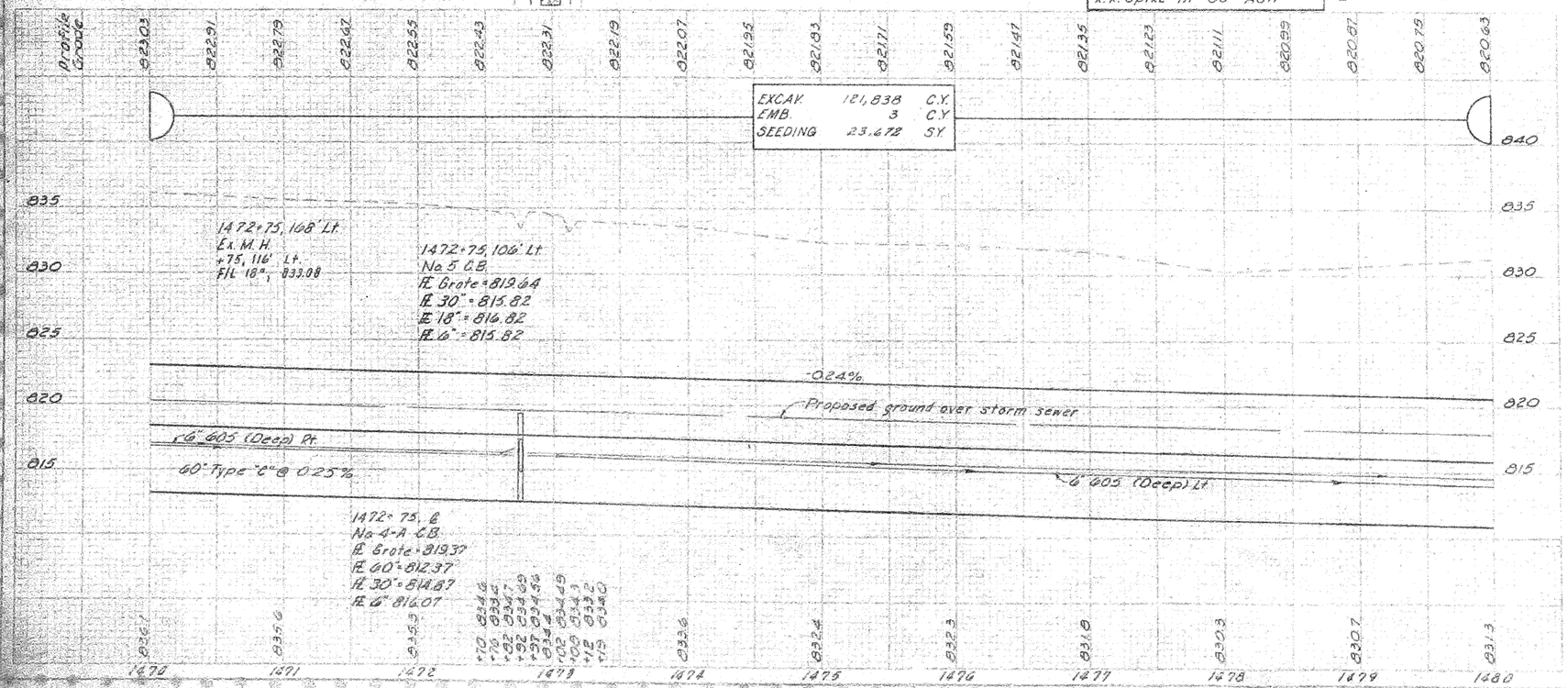
Item 304 $[\frac{1}{2}(\pi)(35)^2 + (35+47)(\div 2)(71.02)](0.75) \div 27 = 134.3$ C.Y.

(2/A) Item 304 $[\frac{1}{2}(45 \times 26)](0.667) \div 27 = 14.5$ C.Y.

NOTES:
1. For Ramp "D" & I.R.270 Pavement Details, see sheet No. 148



Codet Rd. Cul-de-sac
1. For X-Sect. see sheet 69



REF.	STATION TO STATION	SIDE	603 18" Type "F"	603 30" Type "B"	603 60" Type "C"	604 No. 4 & 4A C.B.	604 No. 5 C.B.	Special Cleaning Privy Vaults	606 Guard Rail Type 4	606 Anchor	607 Jute Matting	Bends & Branches 18"	Under-drain Detail
			L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	L.F.	Ea.	S.Y.		
1-D	1470+00 to 1472+75	℄			223								60
2-D	1472+75 to 1480+00	℄			723	1							60
3-D	1472+75	Lt.		108			1				125		68
4-D	1472+75	Lt.	58									2	68
1-R	1472+00	Rt.						1					
1-GR	1472+49.9 to 1473+32.4	Rt.							62.5	2			
2-GR	1472+68 to 1473+18	Lt.							50.0	2			
	TOTALS RURAL		58	108	1000	1	1	1	112.5	4	125		

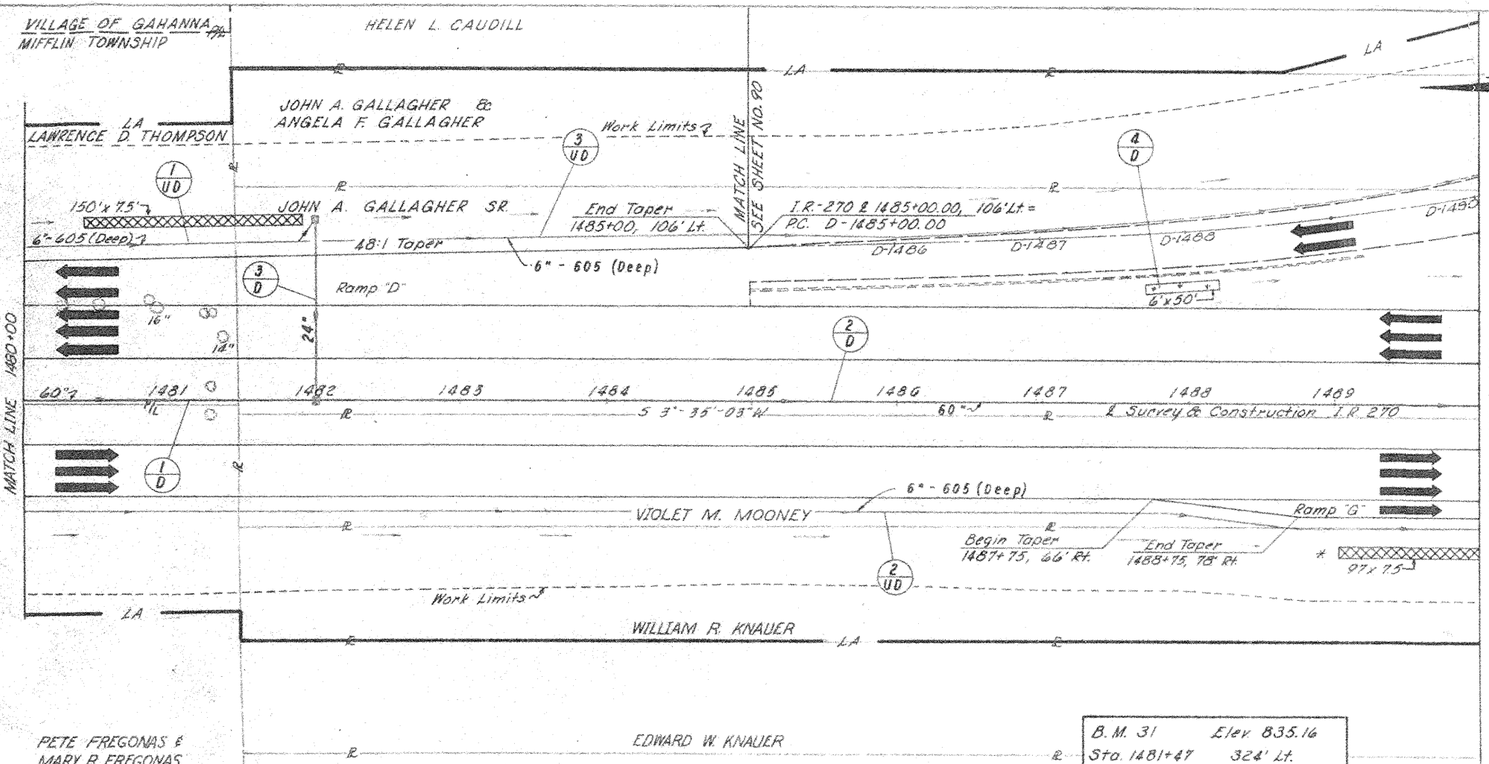
REF.	STATION TO STATION	SIDE	304 Aggregate Base	404 Asphalt Concrete (85-100)	603 6" Type "B"	603 6" Type "F"	605 6" Deep		Bends & Branches 6"	Under-drain Detail
			C.Y.	C.Y.	L.F.	L.F.	L.F.		6"	
1-UD	1470+00 to 1472+71	Lt.				10	283		1	B
2-UD	1470+00 to 1472+75	Rt.			76		275		1	D
3-UD	1472+79 to 1480+00	Lt.					721			
4-UD	1472+79 to 1480+00	Rt.					721			
1-A	1473+28	Rt.	133	30						
2-A	1472+85	Rt.	15							
	TOTALS RURAL		150	30	76	10	2000			

STA. 1470+00 TO STA. 1480+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-26.39 N
FRA-62-20.83

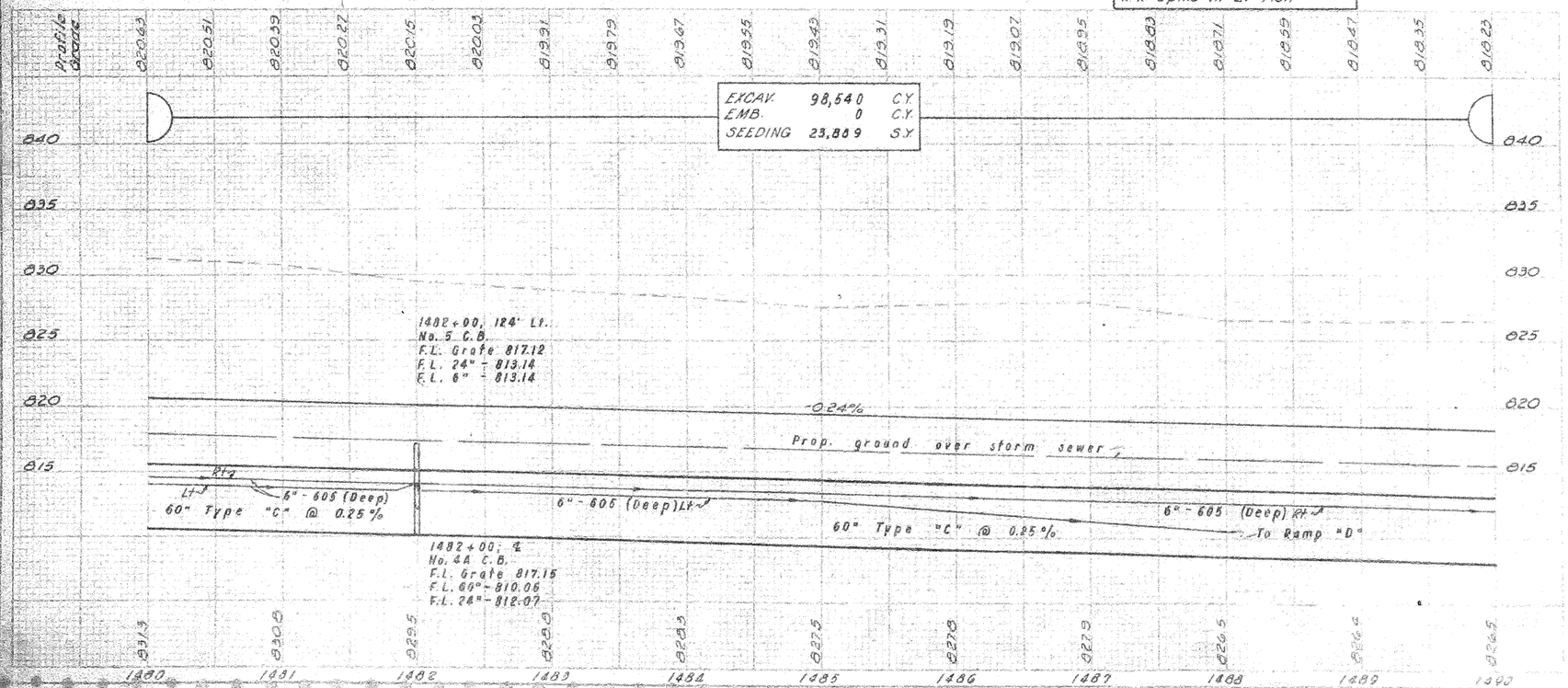
CALC. SAS 1-70
CHKD. W.D.L. 2-70



NOTES:

1. For Ramp "D" Plan See Sheet No. 90-91
2. For Ramp "D" Profile See Sheet No. 98
3. For Ramp "D" & I.R. 270 Pavement Details, See Sheet No
4. For Ramp "G" & I.R. 270 Pavement Details, See Sheet No

* Quantities Carried on Next Sheet.



REF.	STATION TO STATION	SIDE	603 24" Type "B" L.F.	603 60" Type "C" L.F.	604 No. 4A C.B. Ea.	604 No. 5 C.B. Ea.	660 Sodding S.Y.	667 Jute Matting S.Y.
1-D	1480+00 to 1482+00	℄		200				
2-D	1482+00 to 1490+00	℄		800	1			
3-D	1482+00	Lt.	124			1		125
4-D	1487+71 to 1488+21	Lt.					34	
RURAL TOTALS			124	1000	1	1	34	125

REF.	STATION TO STATION	SIDE	603 6" Type "F" L.F.	605 6" Deep L.F.	Bends & Branches
1-UD	1480+00 to 1481+96	Lt.	10	208	1
2-UD	1480+00 to 1490+00	Rt.		1000	
3-UD	1482+04 to D-1488+00	Lt.		596	
RURAL TOTALS			10	1804	

STATE				
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC SAS 1-70
CHK WJD & 2-70

CALCULATIONS

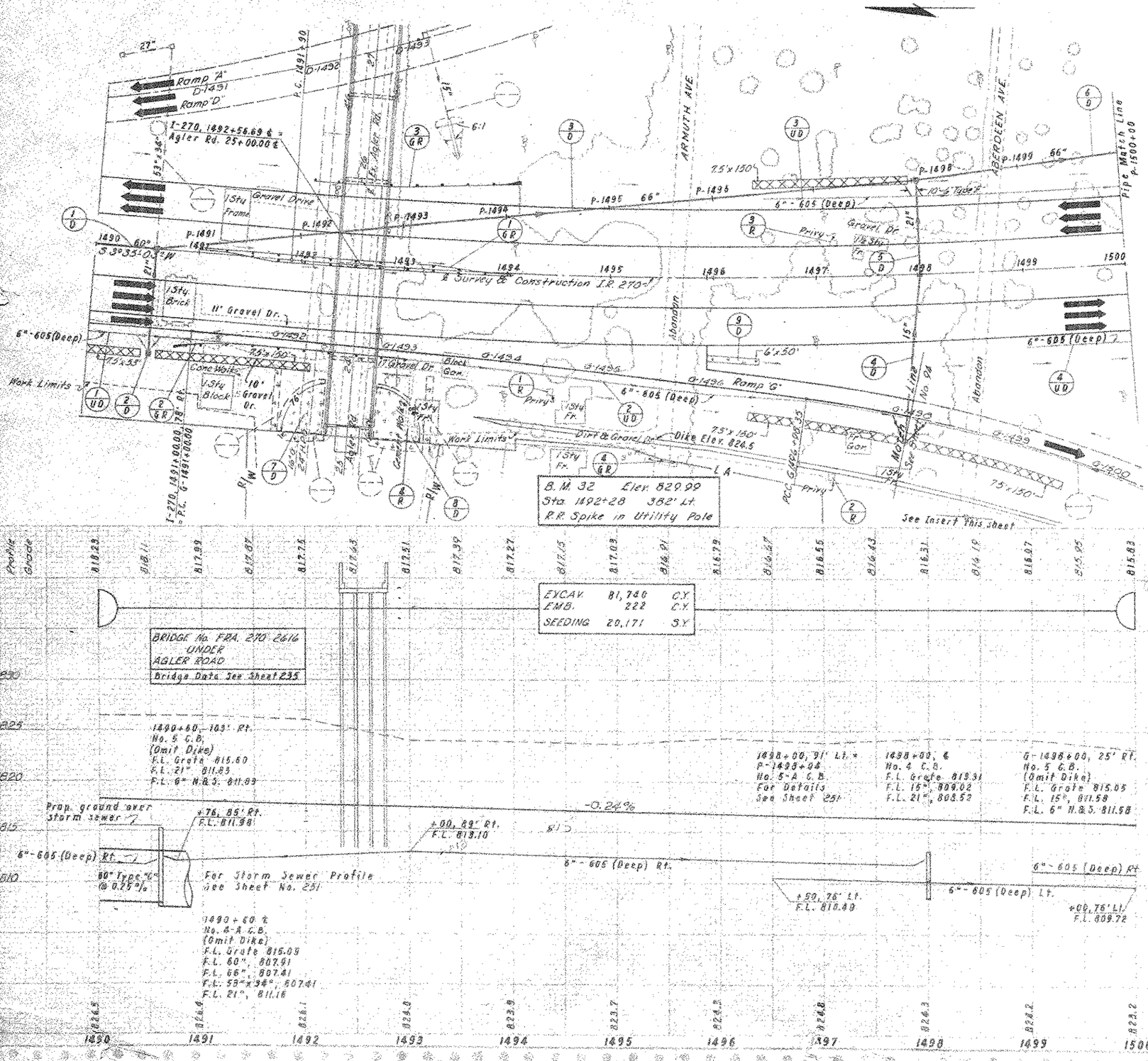
(4/P) (20 x 2.5) + (10 x 4) = 90 S.F.

(7/D) [(76 ÷ 2)(45 + 55) ÷ 2] x 1.04 ÷ 9 = 220.0 S.Y.

(8/D) [(84 ÷ 2)(50 + 54) ÷ 2] x 1.04 ÷ 9 = 252.4 S.Y.

NOTES:

1. For Ramp "D" Plan, See Sheet No. 90-91
2. For Ramp "D" Profile, See Sheet No. 98
3. For Ramp "G" Plan, See Sheet No. 94
4. For Ramp "G" Profile, See Sheet No. 101
5. For Ramp "G" & I.R. 270 Pavement Details, See Sheet No. 151
6. For Agler Road Plan & Profile, See Sheet No. 234, 235 & 236
7. For Storm Sewer Profile, See Sheet No. 251-252
8. For Interchange Geometrics See Sheet 82, 83 & 84



REF	STATION TO STATION	SIDE	603 Type B 15"	603 Type B 21"	603 Type C 66"	603 Type C 60"	604 No. 4 C.B.	604 No. 5 C.B.	604 No. 5-A C.B.	606 Type 4 G. Rail	606 Type 5 G. Rail	606 Type 5 Mod. Rail	606 Rep. End Assemb.	606 Anchor Assemb.	606 Mod. End Assem.	607 Mod. Type	607 Mat'l. Meeting Spec.	607 For Details See Sheet No.
			L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.			
1-D	1490+00 to 1490+60	℄				60											350	73
2-D	1490+60	Rt.		102				1										
3-D	P-1490+60 to P-1498+04	Lt.			744				1								350	73
4-D	1498+00	Rt.	184															
5-D	1498+00	Lt.		90				1									350	75
6-D	P-1498+04 to P-1500+00	Lt.				196			1								125	75
1-GR	1491+06 to 1494+06	℄									500	50				2		
2-GR	1490+64 to 1493+09	Rt.									425			1	1			
3-GR	1492+06 to 1494+06	Lt.									200			1	1			
4-GR	1495+33 to 1495+64	Rt.								35					2			
5-GR	G-1498+65 to G-1498+93	Rt.								25					2			
RURAL TOTAL			184	192	744	60	196	1	1	2	1	60	925	50	8	6	2	625

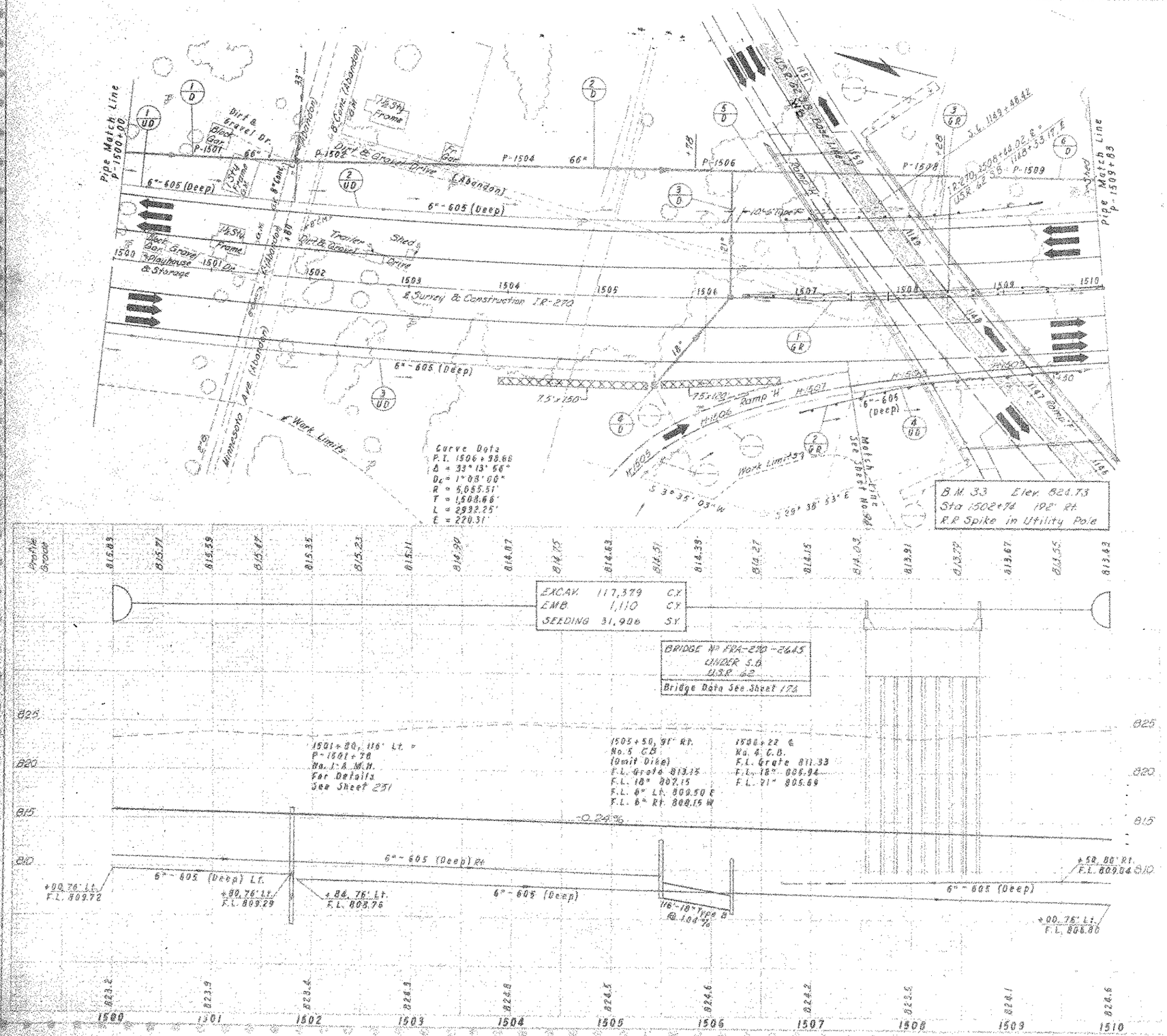
REF	STATION TO STATION	SIDE	202 Ex. Walk Remov. & Disp. of	603 6" Type "F"	605 6" Deep	660 Sodding	830 Excelsior Matting	Special Cleaning Privy Vaults	Beads & Branches 6"	Under-drain Detail
			S.F.	L.F.	L.F.	S.Y.	S.Y.	Ea.		
1-R	1494+64	Rt.						1		
2-R	1497+15	Rt.						1		
3-R	1492+15	Lt.						1		
4-R	1495+15	Rt.	90							
7-D	1491+90 to 1492+55	Rt.					220			
8-D	1492+82 to 1493+82	Rt.					253			
9-D	1495+92 to 1496+42	Rt.				34				
1-UD	1490+00 to 1490+56	Rt.			10	68			1	6
2-UD	1490+64 to G-1497+93	Rt.			30	757			2	6
3-UD	1496+50 to 1500+00	Lt.			10	986				
4-UD	1499+00 to 1500+00	Rt.				190				
RURAL TOTAL			90	60	1265	34	473	3		

2	OHIO		

61

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

SAS 1-70
WOB 2-70



NOTES:

1. For Storm Sewer Profile See Sheet No. 251-252
2. For U.S.R. 62 S.B. Plan & Profile, See Sheet No. 176-177.
3. For Ramp "H" Plan, See Sheet No. 94
4. For Ramp "H" Profile, See Sheet No. 102
5. For Ramp "H" & I.R.-270 Pavement Details, See Sheet No. 152
6. For Interchange Geometrics, See Sheet No. 82, 83 & 84

* 706.02 Class III or 707.13

REF.	STATION TO STATION	SIDE	603 66" Type "C" L.F.	603 66" Type "C" * L.F.	603 18" Type "B" L.F.	603 21" Type "B" L.F.	604 No. 1-A Manhole Ea.	604 No. 4 C.B. Ea.	604 No. 5 C.B. Ea.	667 Jute Matting S.Y.	Bends & Branches 66"	Bends & Branches 66"	For Details See Sheet No.
1-D	P-1500+00 to P-1501+78	Lt.	178										
2-D	P-1501+78 to P-1505+78	Lt.	800				1						
3-D	1506+22	Lt.				128		1					76
4-D	1505+50 to 1506+22	Rt.			116				1	225			77
5-D	P-1505+78 to P-1508+28	Lt.	~~[illegible]~~ 250									1	
6-D	P-1508+28 to P-1509+83	Lt.	155										
RURAL TOTALS			~~983~~ 733	250	116	128	1	1	1	225			

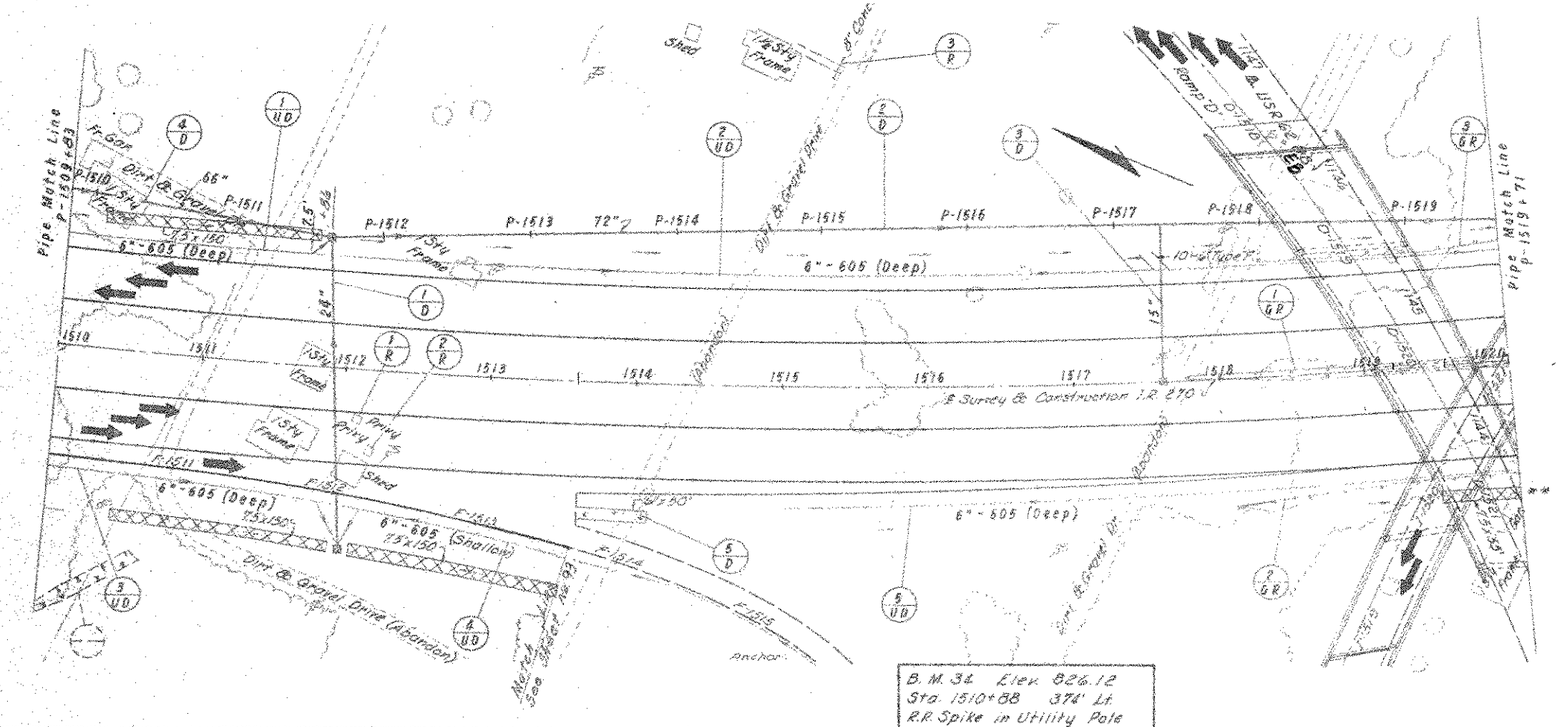
REF.	STATION TO STATION	SIDE	603 6" Type "F" L.F.	605 6" Deep L.F.	606 Barr. Rail Type 5 G. Rail Type 5 L.F.	606 App. End Assemb. L.F.	606 Anchor Assemb. Ea.	606 App. End Assemb. Bar. Type Ea.	Bends & Branches 6"	Under Drain Detail	
1-UD	1500+00 to 1501+80	Lt.	10	207					1		
2-UD	1501+64 to 1510+00	Lt.	10	806						E	
3-UD	1500+00 to 1505+50	Rt.	10	555					1	F	
4-UD	1507+39.68 to 1510+00	Rt.		260							
1-GR	1506+39 to 1510+01.5	℄			50	625.0		2			
2-GR	1506+80.5 to 1509+74	Rt.				387.5	1	1			
3-GR	1508+81 to 1509+43.5	Rt.				262.5	1	1			
RURAL TOTALS			30	1828	50	1175.0	2	2	2		

1500+00 TO 1510+00

FED. ROAD DIST. NO.	STATE	ROUTE NO.	SHEET NO.	TOTAL SHEETS
2	OHIO			62

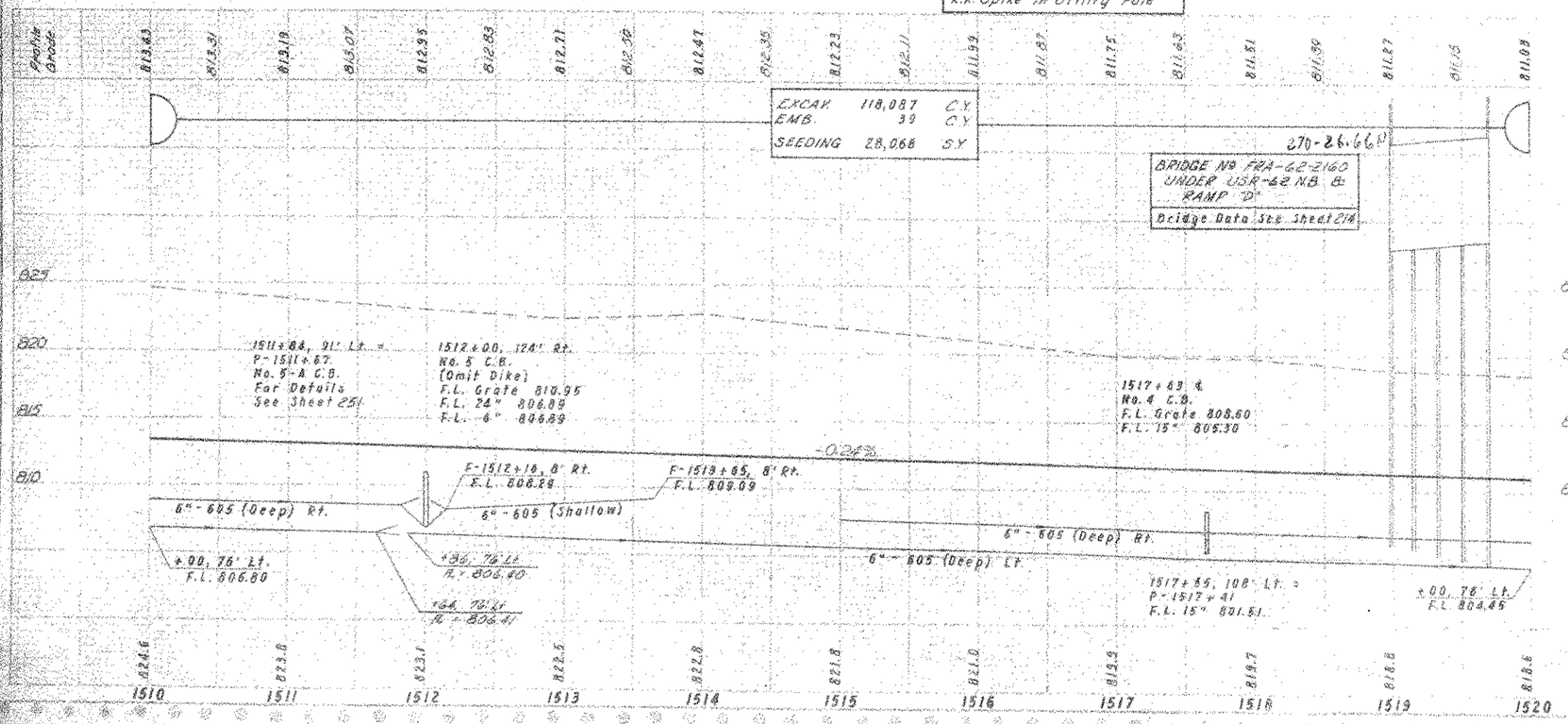
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

S.A.S. 1-70
W.O.P. 2-70



NOTES:

1. For USR-62 N.B. Plan & Profile, See Sheet No. 21A
2. For Ramp "F" Plan, See Sheet No. 93
3. For Ramp "F" Profile, See Sheet No. 100
4. For Ramp "F" & I.R. 270 Pavement Details, See Sheet No. 153
5. For Ramp "I" Plan, See Sheet No. 89 & 93
6. For Ramp "I" Profile, See Sheet No. 103
7. ** Jute Matting carried to next sheet
8. For Interchange Geometrics, See Sheet Nº 82, 83 & 84



REF.	STATION TO STATION	SIDE	603 15" Type "B" L.F.	603 24" Type "B" L.F.	603 66" Type "C" L.F.	603 72" Type "C" No. 6 L.F.	604 No. 5 Eq.	604 No. 5-A Eq.	604 No. 6 Eq.	660 Seeding S.Y.	667 Jute Matting S.Y.	Bends & Branches 72"	For Details See Sheet No.
1-D	1511+90	L&R		216				(1)			250		78
2-D	P-1511+67 to P-1519+71	Lt.				604		(1)			125	1	
3-D	1517+63	Lt.	108				1						90
4-D	P-1509+83 to P-1511+67	Lt.			184								
5-D	1518+62 to 1518+12	Rt.								34			
	RURAL TOTALS		108	216	184	604	1	1	1	34	375		

REF.	STATION TO STATION	SIDE	202 Removing Pipe & Abandoning Structures 6" Type "B" L.F.	603 Pipe Culverts 6" Type "B" Shallow L.F.	605 Special Pipe Culverts 6" Type "B" Deep L.F.	Special Sleeping Inlets L.F.	Special Vault Inlets L.F.	Special Vault Inlets Bar. Rail No. 5 L.F.	606 Appr. End Assemb. Eq.	606 Anchor Assemb. Eq.	606 App. End Assemb. Bar. Type Eq.	Bends & Branches Underdrain Outlet	
1-UD	1510+00 to 1511+80	Lt.		10	191							1	B
2-UD	1511+86 to 1520+00	Lt.		10	804								C
3-UD	1510+00 to 1511+96	Rt.		10	217							1	C
4-UD	1512+68 to 1513+85.23	Rt.		10	182							1	C
5-UD	1515+00 to 1520+20	Rt.			800								
1-D	1512+16	Rt.				1							
2-D	1512+20	Rt.				1							
3-D	1515+37	Lt.	18										
1-GR	1517+74 to 1521+61.5	Lt.						675.50				2	
2-GR	1518+10 to 1520+95	Rt.						225	1	1			
3-GR	1518+30 to 1520+67.5	Lt.						337.5	1	1			
	RURAL TOTALS		18	40	1834	2	2	1237.50	2	2	2		

1510+00 TO 1520+00

SHEET NO.	STATE	PROJECT NUMBER		
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

SAS I-70
W.P.K. E-70

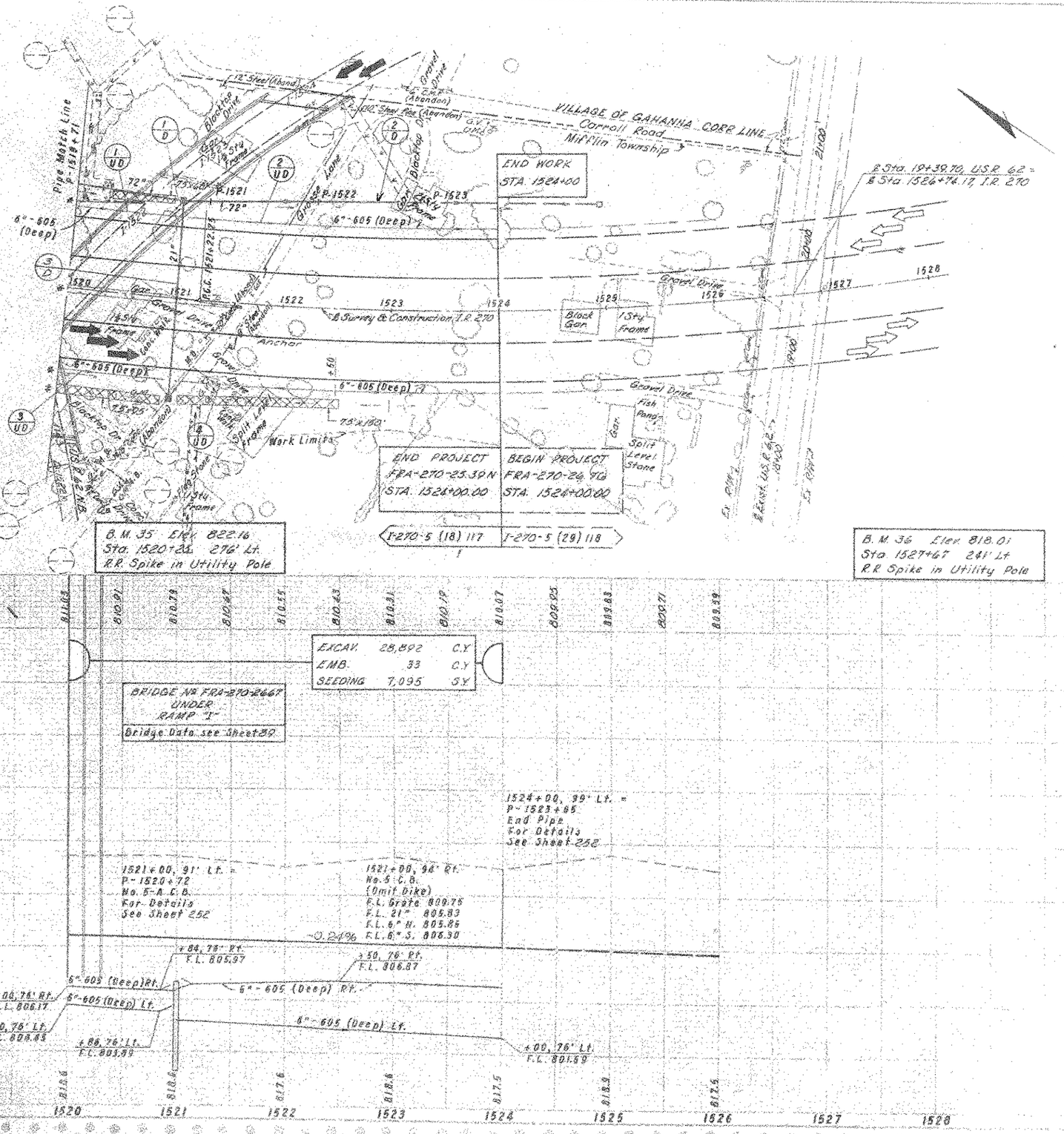
LEGEND

Existing Concrete Walk removed under Item 203 Excavation

NOTES:

1. For Ramp "I" Plan, See Sheet No. 89 & 93
2. For Ramp "I" Profile, See Sheet No. 103
3. For U.S.R. 62 N.B. Plan & Profile, See Sheet No. 216
4. For Storm Sewer Profile See Sheet No. 251 & 252
5. Typical Section on adjacent Project will be similar to Fra-270-25.39 N
6. For Interchange Geometrics, See Sheet No. 82, 83 & 84

* Jute Matting carried from previous sheet.
* Guard Rail carried on previous sheet.


12" Steel (Abandon)
Gravel Drive
6" Steel (Abandon)
VILLAGE OF GAHANNA CORP LINE
Carroll Road
Mifflin Township
Blacktop Drive
Pipe Match Line P-1519+71
1 Sty Frame
Garage
Shed
P-1521
P-1522
P-1523
72" L-72"
6"-605 (Deep)
21" L-50'
Gravel Drive
Blacktop Drive (Abandon)
Gravel Drive (Abandon)
Frame
Conc. Walk
M.H.
Steel Abandon
Anchor
B Survey & Construction I.R. 270
Block Garage
1 Sty Frame
Gravel Drive
Fish Pond
Garage
Split Level Stone
Work Limits
75'x180'
Blacktop Drive (Abandon)
Shed
Gravel Drive
Gravel Drive
Conc. Walk
Gravel Drive
Gravel Drive
Gravel Drive

OHIO

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

	END AREA	VOLUME
CUT		
FILL		

LA-R/W @ 150'

LA-R/W @ 166'

LA-R/W @ 166'

LA-R/W @ 150'

FULL SECTION STA. 1453+70
LA-R/W @ 150'

LA-R/W @ 150'

LA-R/W @ 166'

LA-R/W @ 150'

Prop 60" STS

826.87
1454+00
838.7

Prop 60" STS

827.11
1453+00
832.4

Ex. No. 5 CB

Ex 27"

Ex MH/A CB

Ex 27"

Ex No. 2 CB

827.35
1452+00
839.2

BEGIN PROJECT
1452+00

BEGIN WORK
1451+50

827.39
1451+00
833.7

C-53

C-56

C-45

C-95

AHEAD

AHEAD

Ahead

Back

824.4

824.7

824.6

824.9

825.2

825.3

832.7

832.9

832.8

832.8

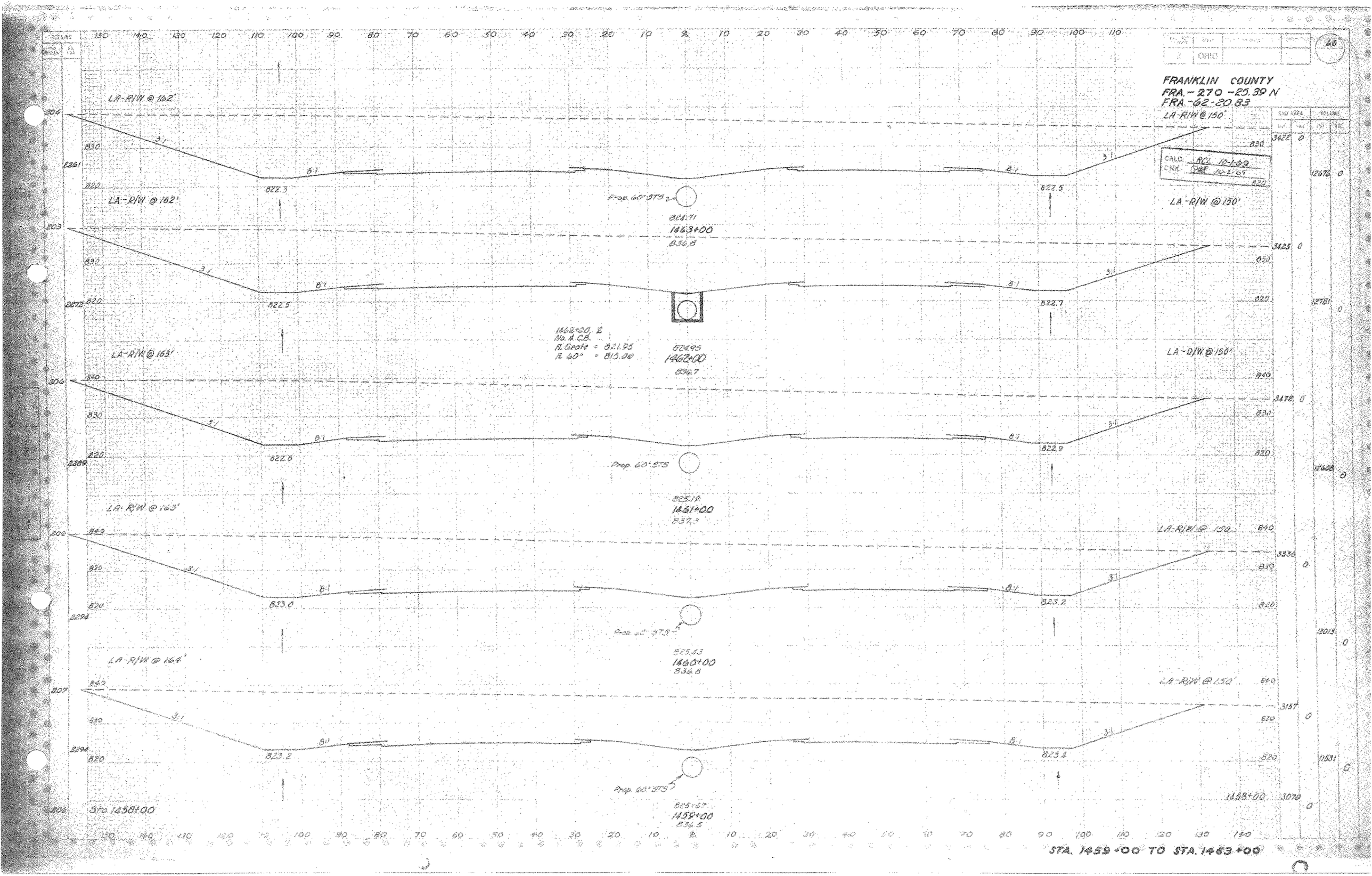
832.8

FRANKLIN COUNTY
FRA.-270 -25.39N
FRA-62-20.83

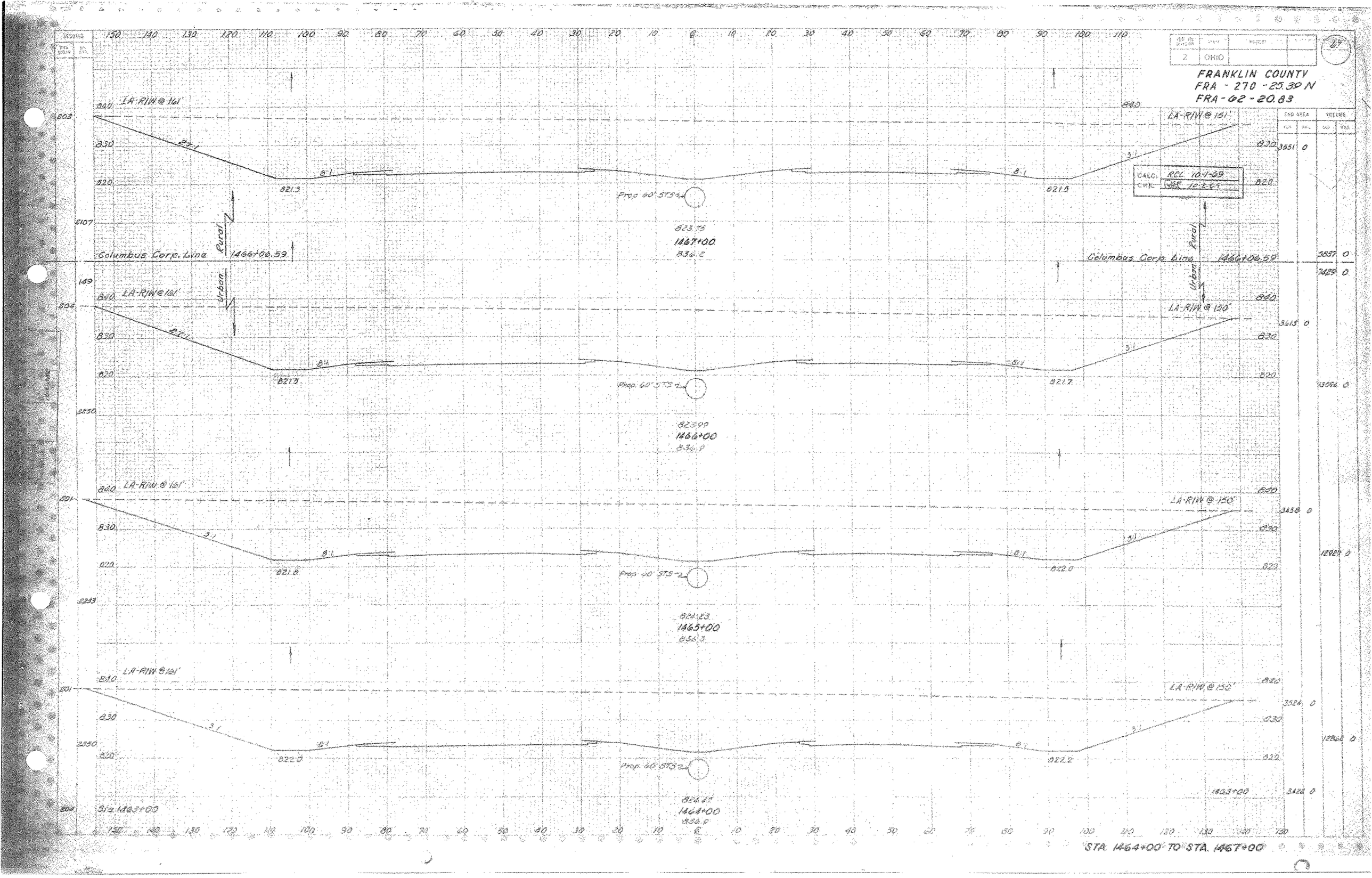
CALC RCL 10-1-69
CHK GES 10-2-69

65

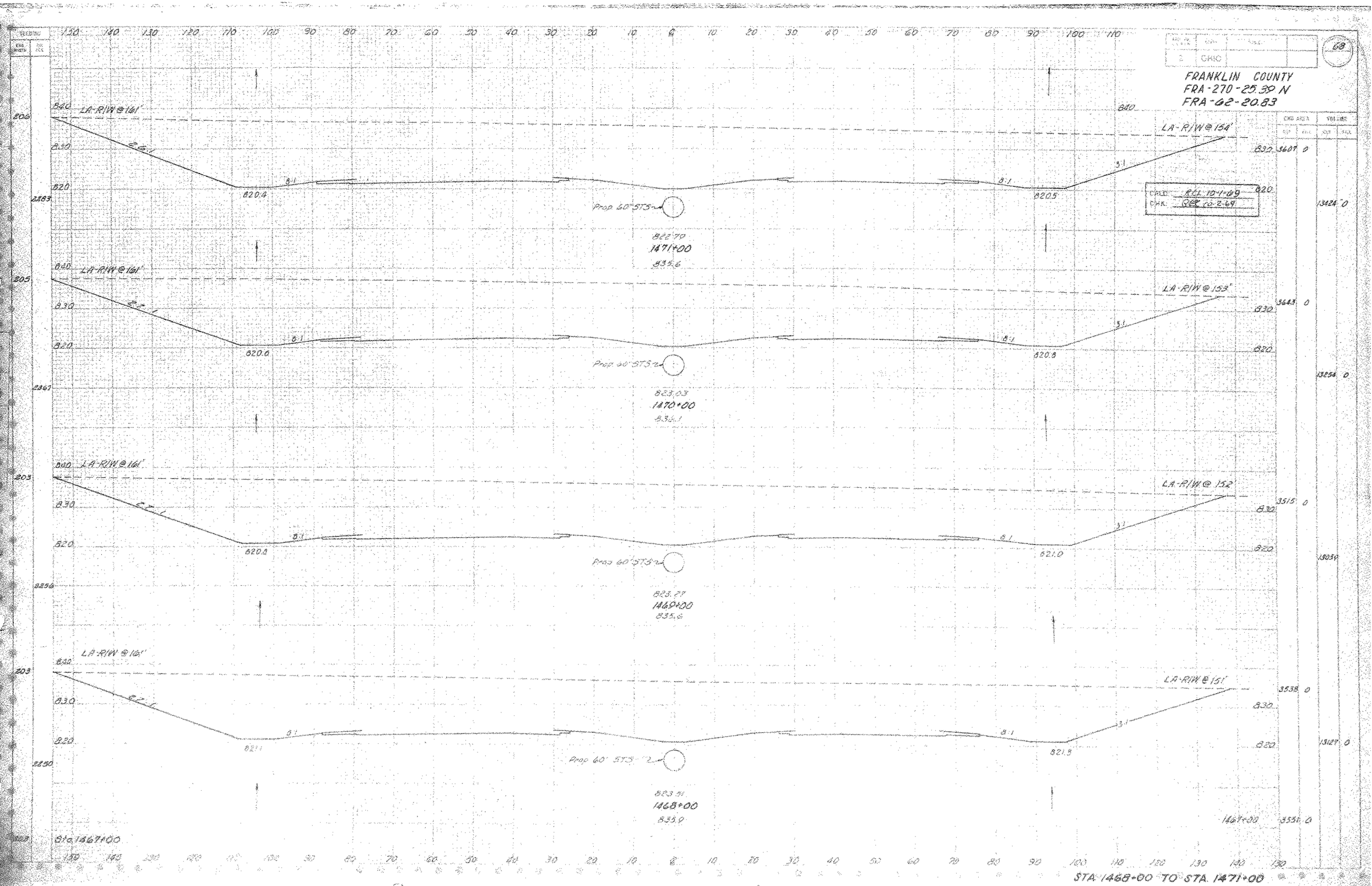
| | | |



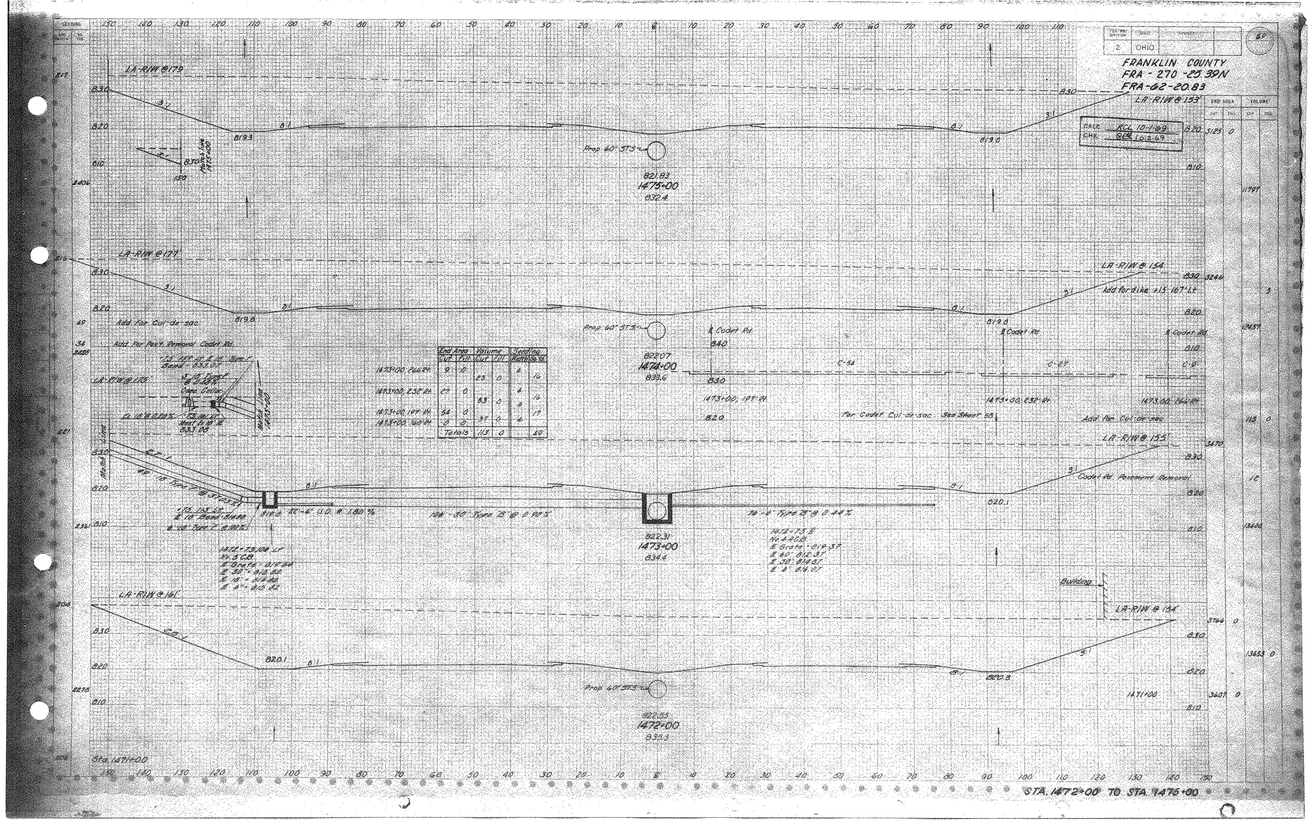
FRANKLIN COUNTY
FRA.-270-25.39 N
FRA.-62-20.83
CALC. RCL 10-1-69
CHK. CHR 10-2-69
LA-R/W @ 162'
LA-R/W @ 150'
LA-R/W @ 163'
LA-R/W @ 164'
Prop. 60" STS
1463+00
1462+00
1461+00
1460+00
1459+00
1458+00
Sta. 1458+00
STA. 1459+00 TO STA. 1463+00

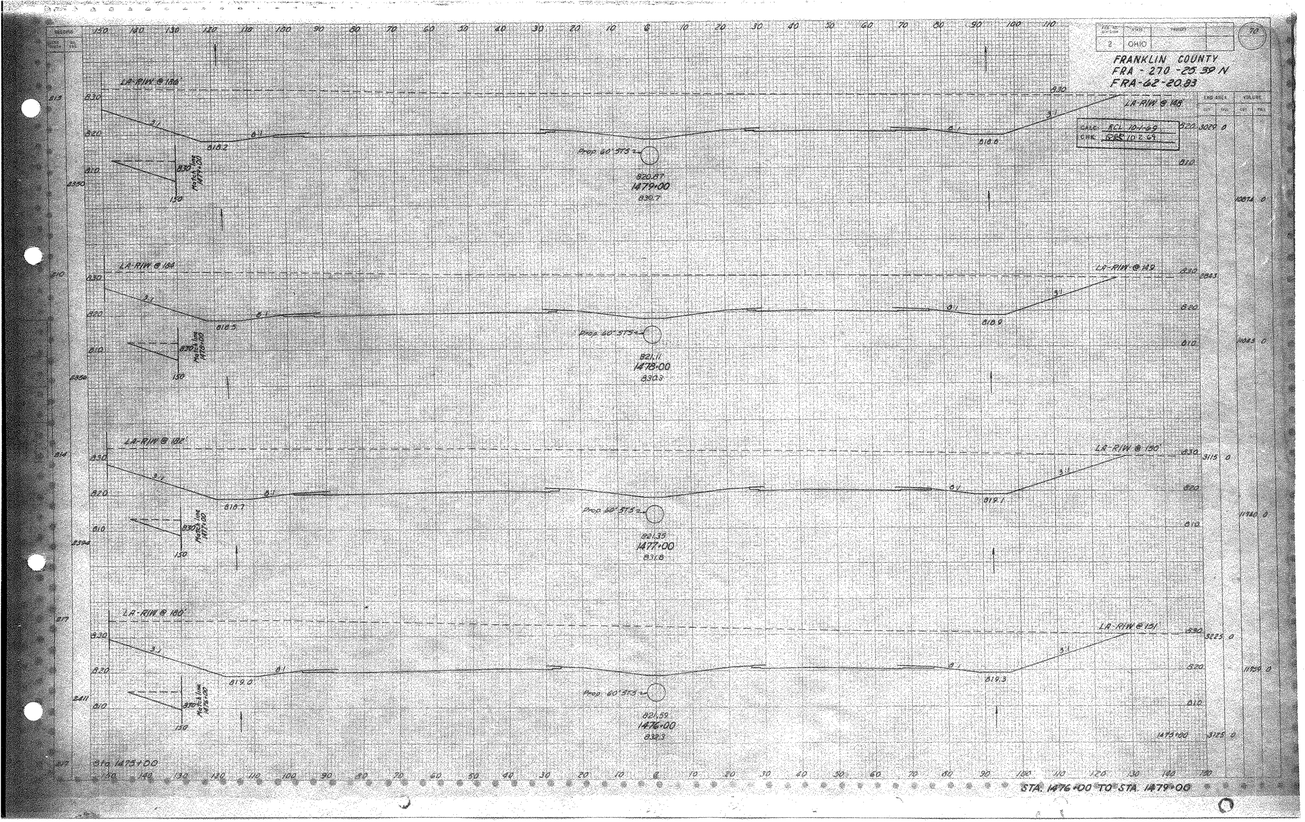


FRANKLIN COUNTY
FRA - 270 - 25.39 N
FRA - 62 - 20.83
CALC. RCL 10-1-69
CHK. 10-2-69
LA-R/W @ 161'
LA-R/W @ 151'
LA-R/W @ 150'
Columbus Corp. Line 1466+06.59
Urban
Rural
Prop. 60' STS
823.75
1467+00
836.2
823.99
1466+00
836.9
824.23
1465+00
836.3
824.47
1464+00
836.9
Sta. 1463+00
STA. 1464+00 TO STA. 1467+00

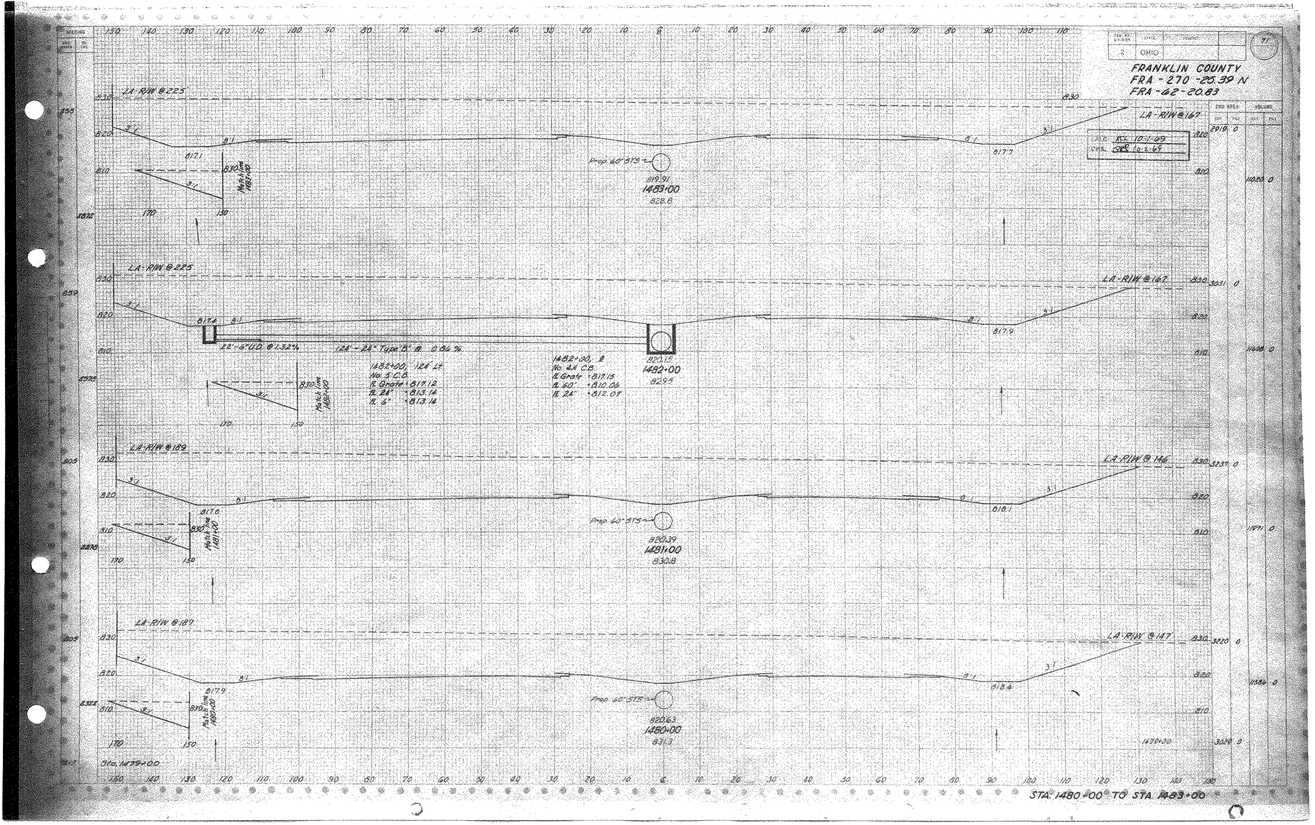


FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
68
CALC. RCL 10-1-69
CHK. QEC 10-2-69
LA-R/W @ 161'
LA-R/W @ 154'
LA-R/W @ 153'
LA-R/W @ 152'
LA-R/W @ 151'
Prop. 60" STS
822.79
1471+00
835.6
823.03
1470+00
836.1
823.27
1469+00
835.6
823.51
1468+00
835.9
Sta 1467+00
STA 1468+00 TO STA 1471+00

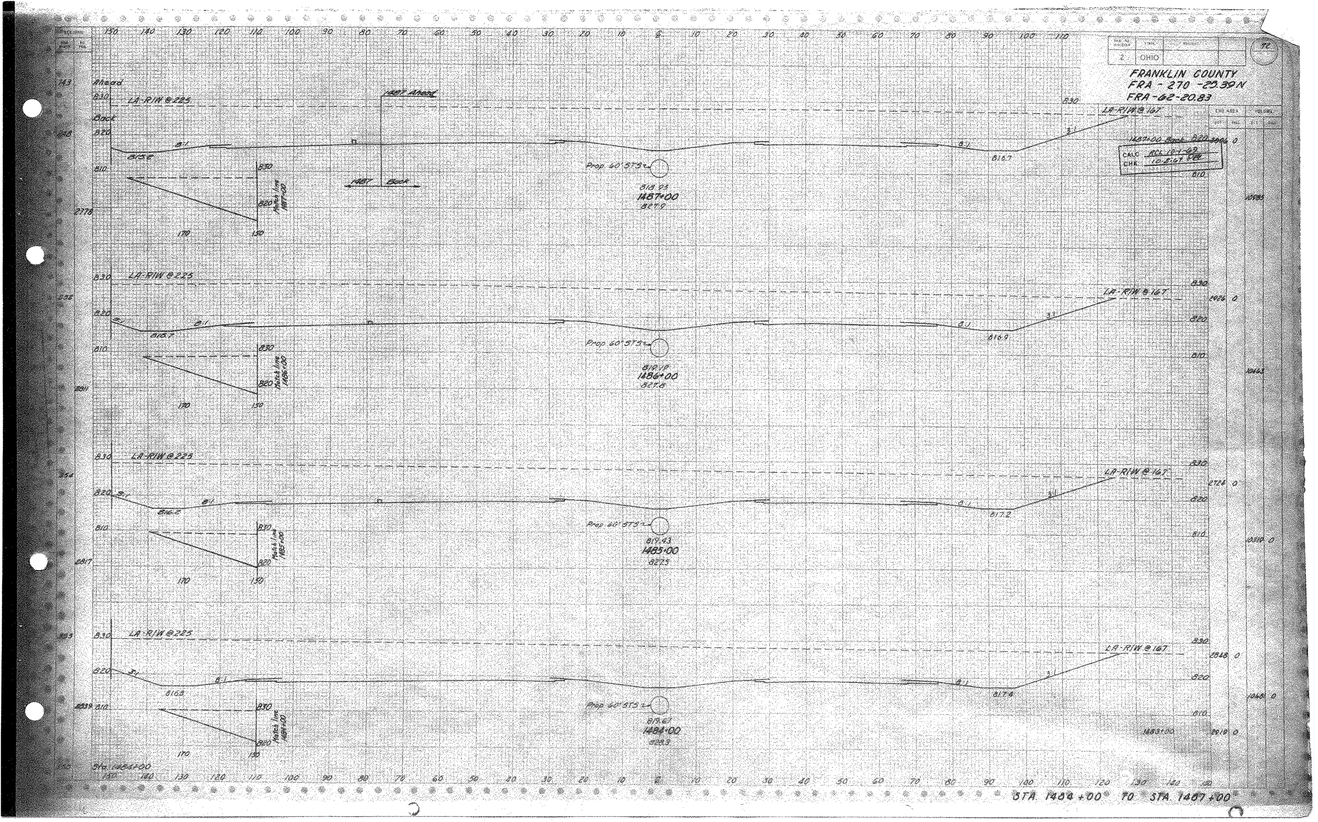

FRANKLIN COUNTY
FRA - 270 - 23.39 N
FRA-62-20.83
STA. 1472+00 TO STA. 1475+00
STA. 1471+00
Prop. 60" STS
Add for Cul-de-sac
Add for Pav't. Pavement Cooket Rd.
Cooket Rd. Pavement Removal
Add for Cul-de-sac (See Sheet 10)
Buildings
Prop. 6" Type 2 Base
Prop. 1½" Type 2 Surface
Prop. 1½" Type 2 Intermediate
Prop. 1½" Type 2 Surface

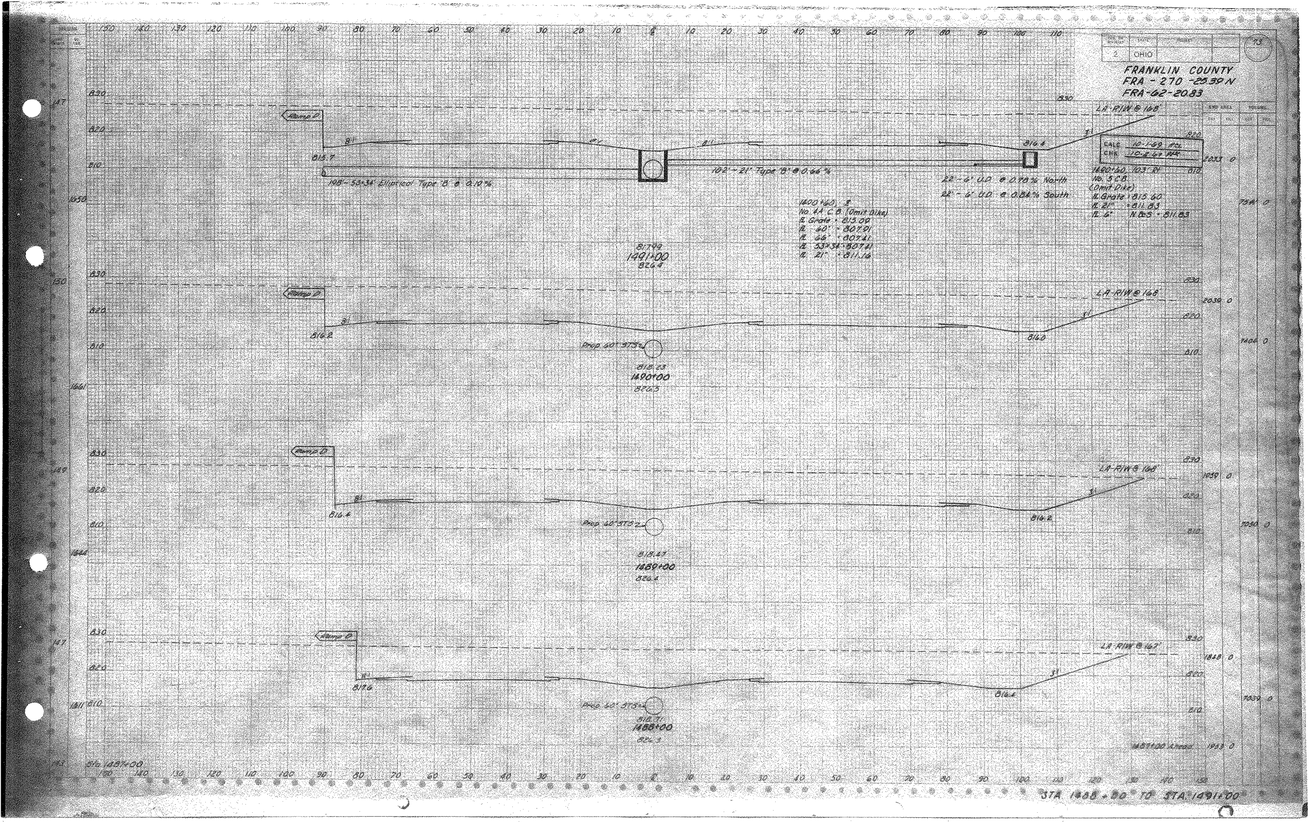


FRANKLIN COUNTY
FRA - 270 - 25.39 N
FRA-62-20.83
2
OHIO
LA-RIW @ 186'
LA-RIW @ 148'
LA-RIW @ 184'
LA-RIW @ 149'
LA-RIW @ 182'
LA-RIW @ 150'
LA-RIW @ 180'
LA-RIW @ 151'
Prop. 60" STS
820.87
1479+00
830.7
821.11
1478+00
830.3
821.39
1477+00
831.8
821.59
1476+00
832.3
Sta. 1475+00
STA. 1476+00 TO STA. 1479+00

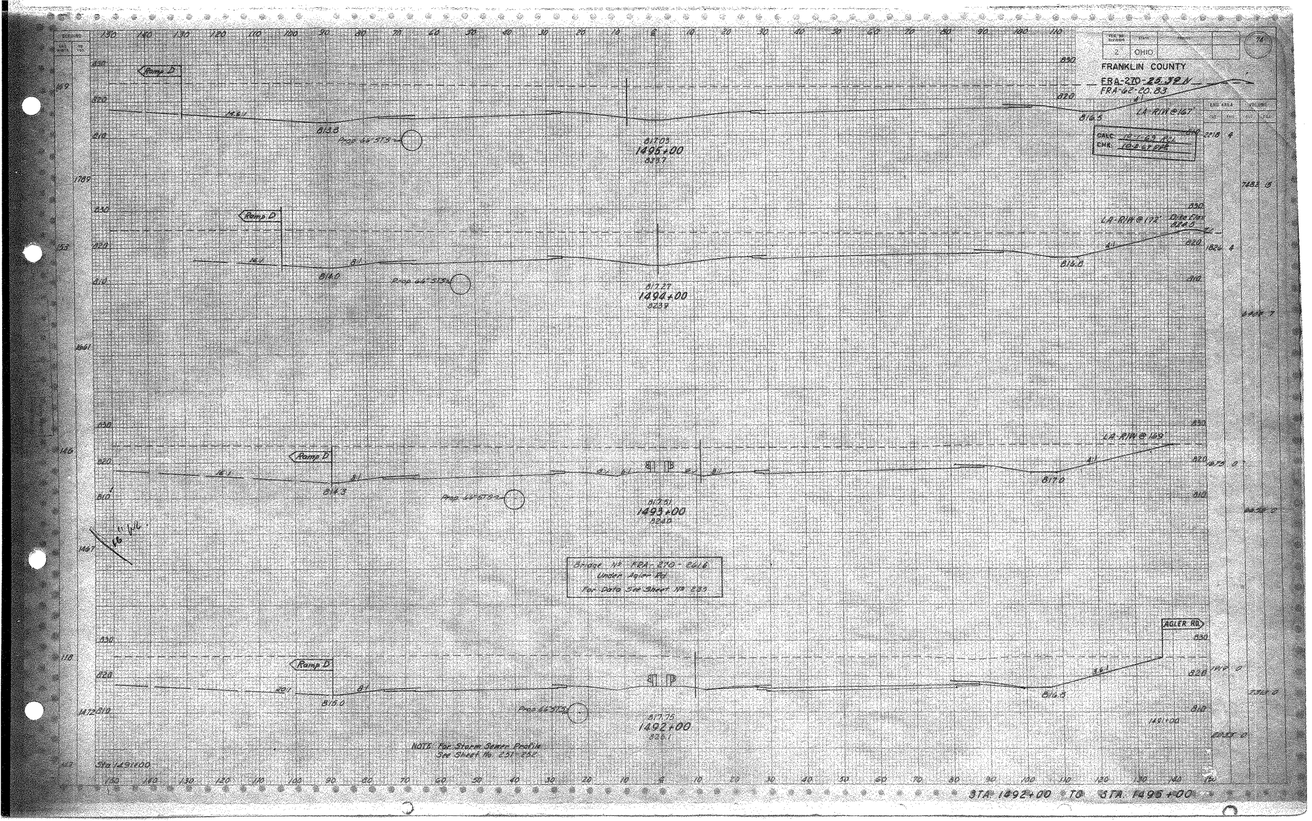


FRANKLIN COUNTY
FRA - 270 - 25.39 N
FRA - 62 - 20.83
OHIO
LA-RIW @ 225
LA-RIW @ 167
LA-RIW @ 189
LA-RIW @ 146
LA-RIW @ 187
LA-RIW @ 147
Prop. 60" STS
1483+00
1482+00
1481+00
1480+00
22'-6" U.D. @ 1.32%
124'-24" Type 'B' @ 0.86%
STA. 1480+00 TO STA. 1483+00

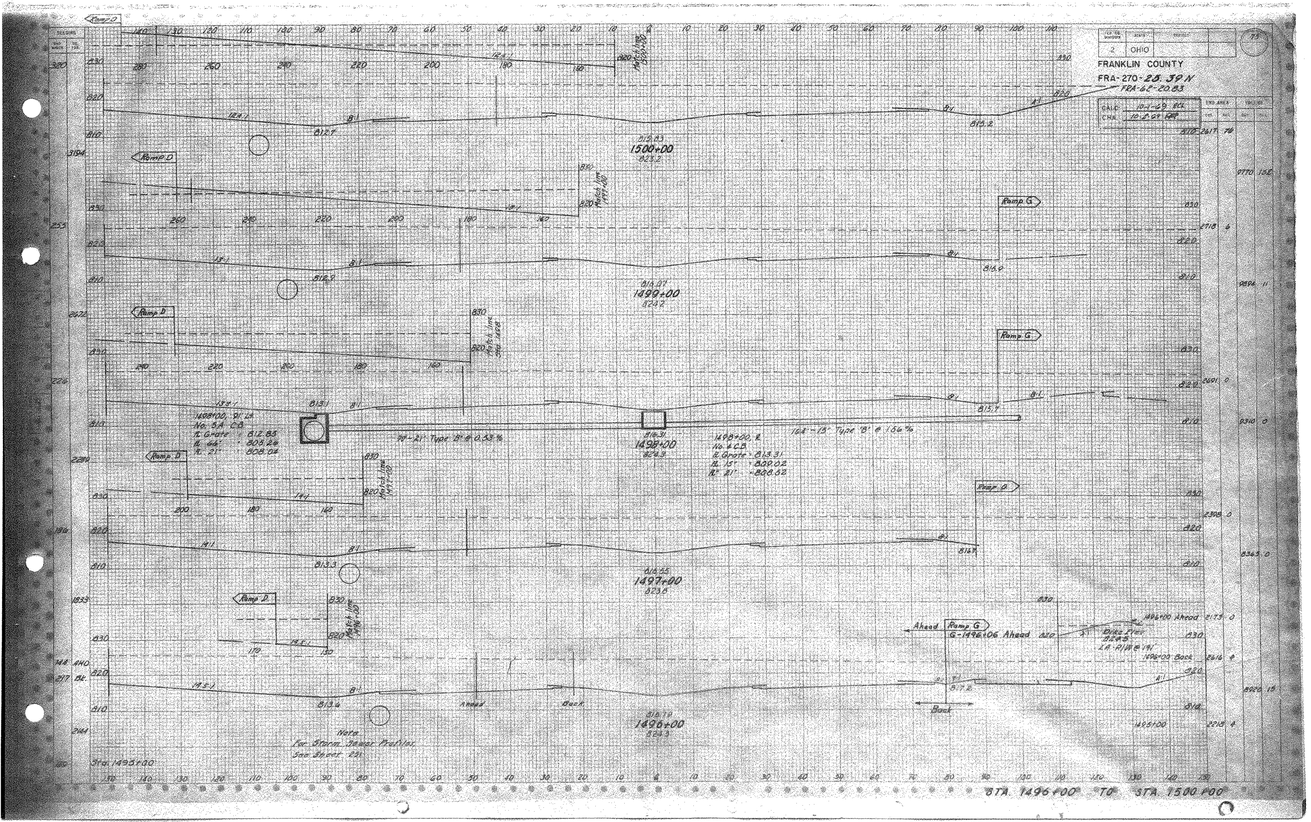

FRANKLIN COUNTY
FRA - 270 - 25.39 N
FRA - 62 - 20.83
2
OHIO
72
Ahead
Back
LA-R/W @ 225
LA-R/W @ 167
1487 Ahead
1487 Back
1487+00 Back
Prop. 60" STS
818.93
1487+00
827.9
818.7
816.7
818.19
1486+00
827.8
816.9
819.43
1485+00
827.5
817.2
819.61
1484+00
828.3
817.4
Sta. 1484+00
STA. 1484+00 TO STA. 1487+00

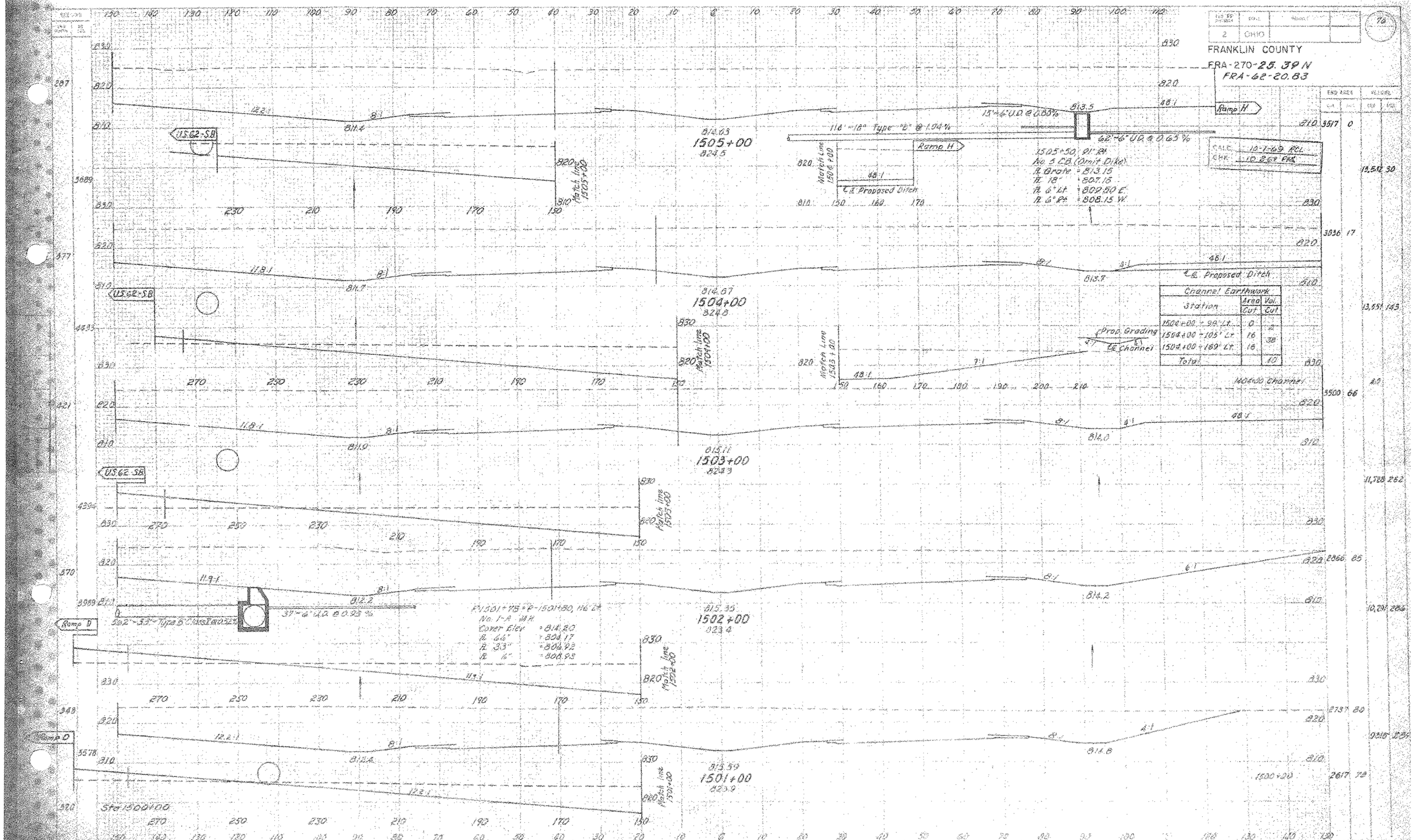


FRANKLIN COUNTY
FRA - 270 - 25.39 N
FRA-62-20.83
OHIO
Ramp D
LA-R/W @ 168'
LA-R/W @ 167'
198'-53+34' Elliptical Type "B" @ 0.10%
102'-21' Type "B" @ 0.66%
22'-6' U.D. @ 0.78% North
22'-6' U.D. @ 0.84% South
1490+60, ℄
No. 4A C.B. (Omit Dike)
℄ Grate = 815.09
℄ 60" = 807.91
℄ 66" = 807.41
℄ 53+34 = 807.41
℄ 21" = 811.16
1490+60, 103' Rt
No. 5 C.B.
(Omit Dike)
℄ Grate = 815.60
℄ 21" = 811.83
℄ 6" N.B.S. = 811.83
1491+00
1490+00
1489+00
1488+00
Prop 60" STS
STA 1488+80 TO STA 1491+00

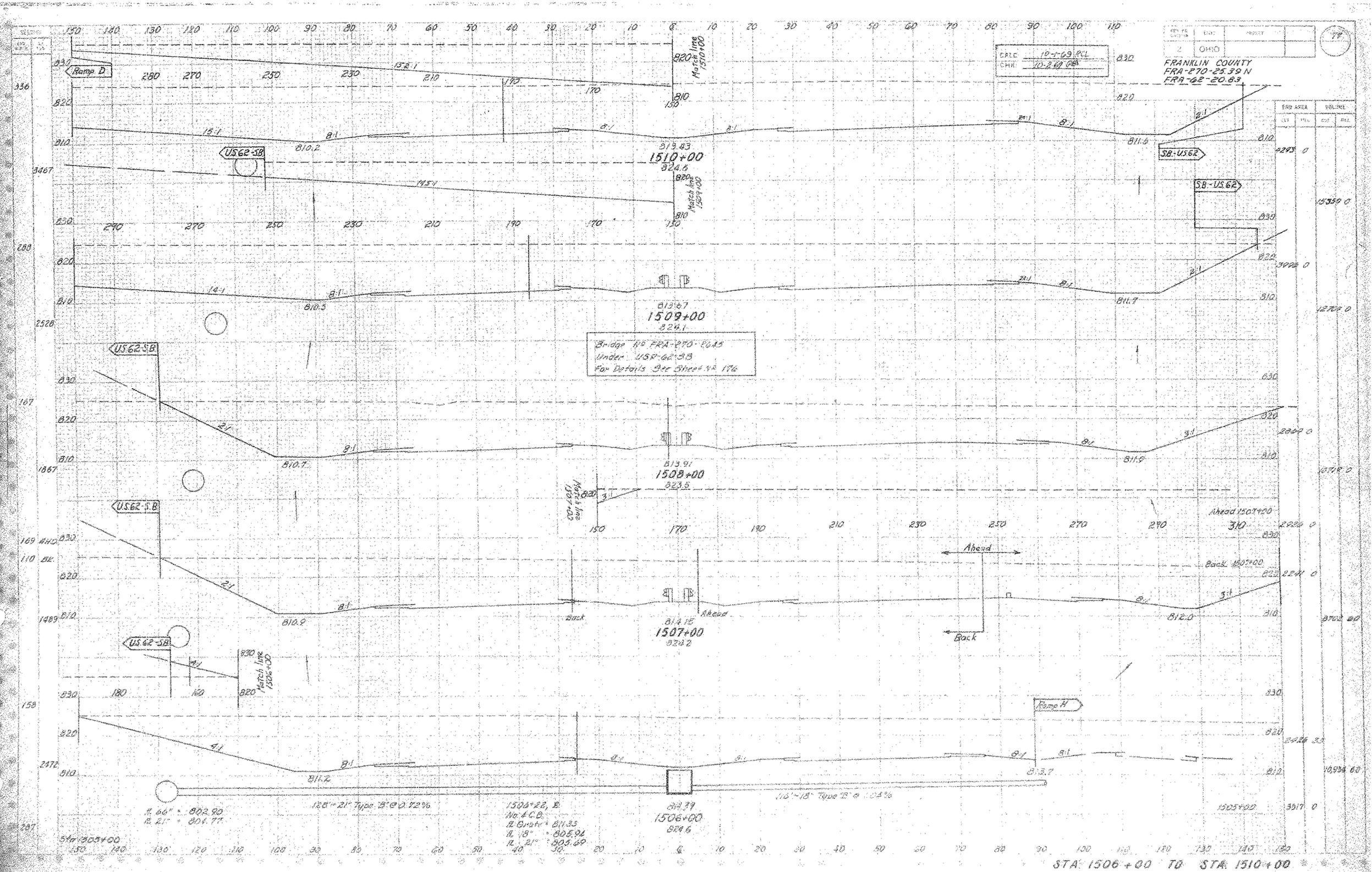


FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
Ramp D
1495+00
1494+00
1493+00
1492+00
AGLER RD.
NOTE: For Storm Sewer Profile See Sheet No. 237-252
STA. 1492+00 TO STA. 1495+00

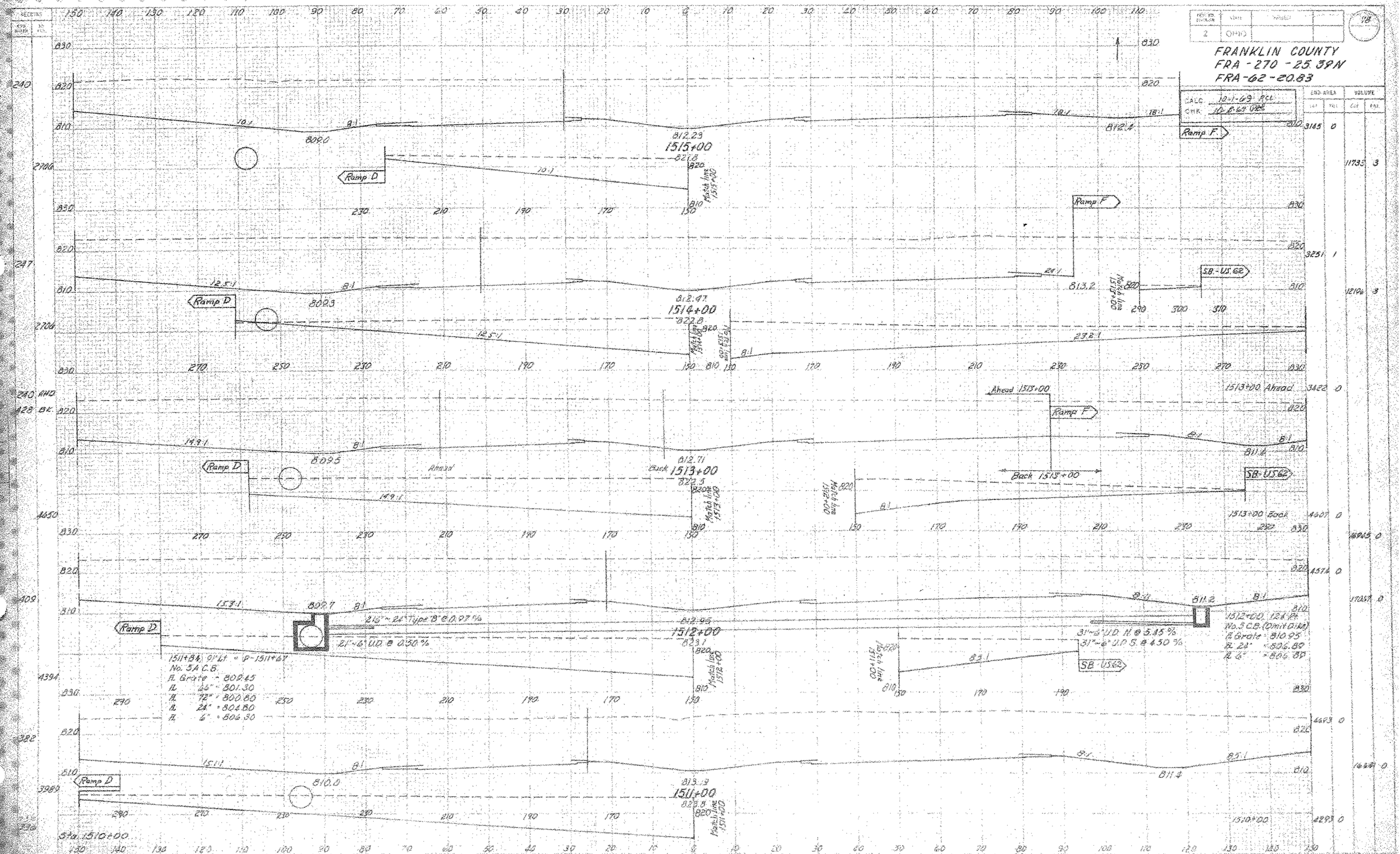

FRANKLIN COUNTY
FRA-270-28.39 N
FRA-62-20.03
2 OHIO
Ramp D
Ramp G
Ramp B
Ramp O
Ahead
Back
Note
For Storm Sewer Profile
See Sheet 121
STA 1496+00 TO STA 1500+00



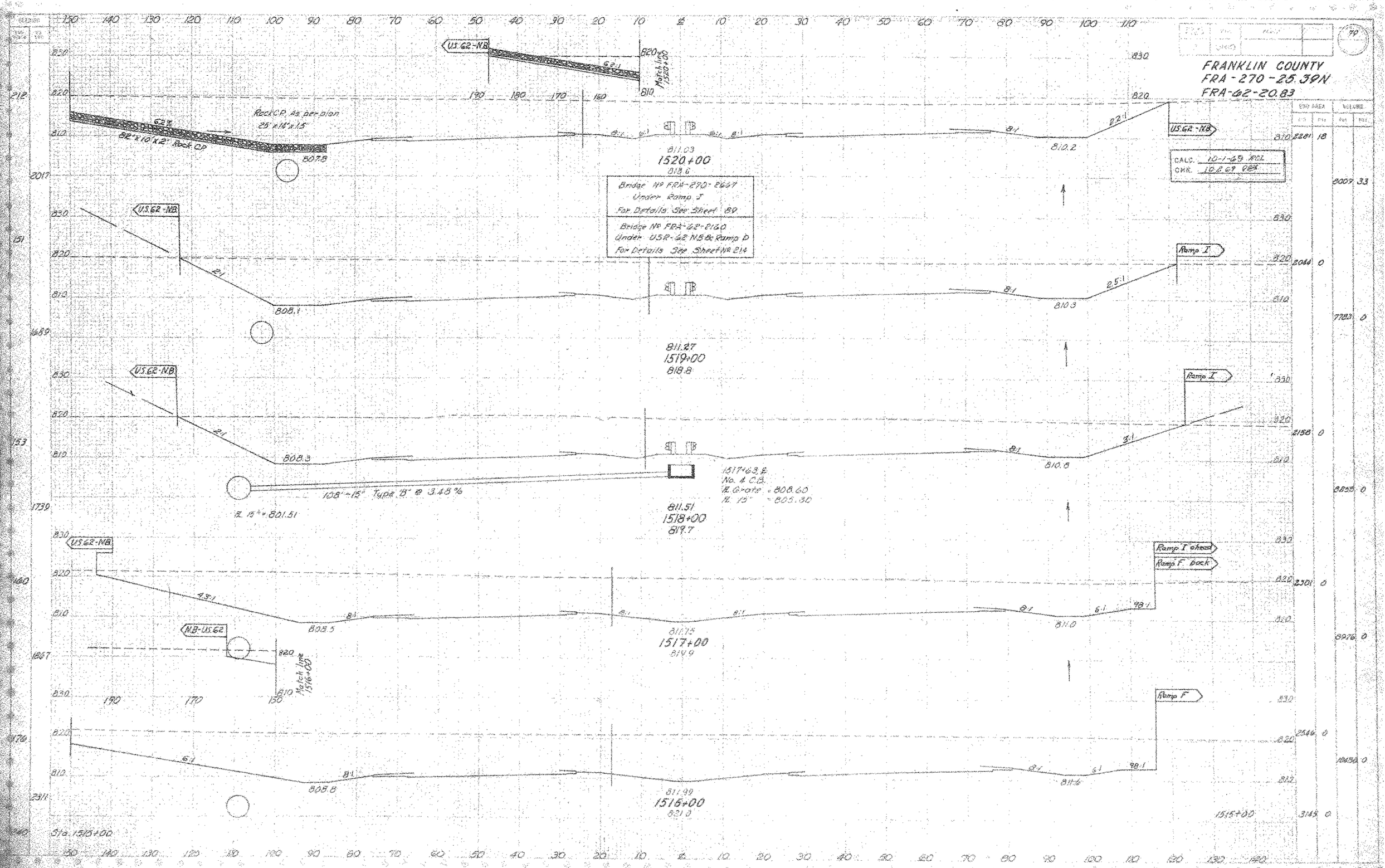
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
2 OHIO
CALC. 10-7-69 RCL
CHK. 10-2-69 PKS
1505+00
1504+00
1503+00
1502+00
1501+00
US 62-SB
Ramp H
Ramp D
Match line 1505+00
Match line 1504+00
Match line 1503+00
Match line 1502+00
Match line 1501+00
Prop. Grading
℄ Channel
℄ Proposed Ditch
1505+50, 91' Rt
No. 5 CB (Omit Dike)
Channel Earthwork
Station | Area Cut | Vol. Cut
1504+00 - 99' Lt. | 0 | 2
1504+00 - 105' Lt. | 16 | 38
1504+00 - 169' Lt. | 16 | 40
Total | | 40
Sta 1500+00
STA. 1501+00 TO STA. 1505+00

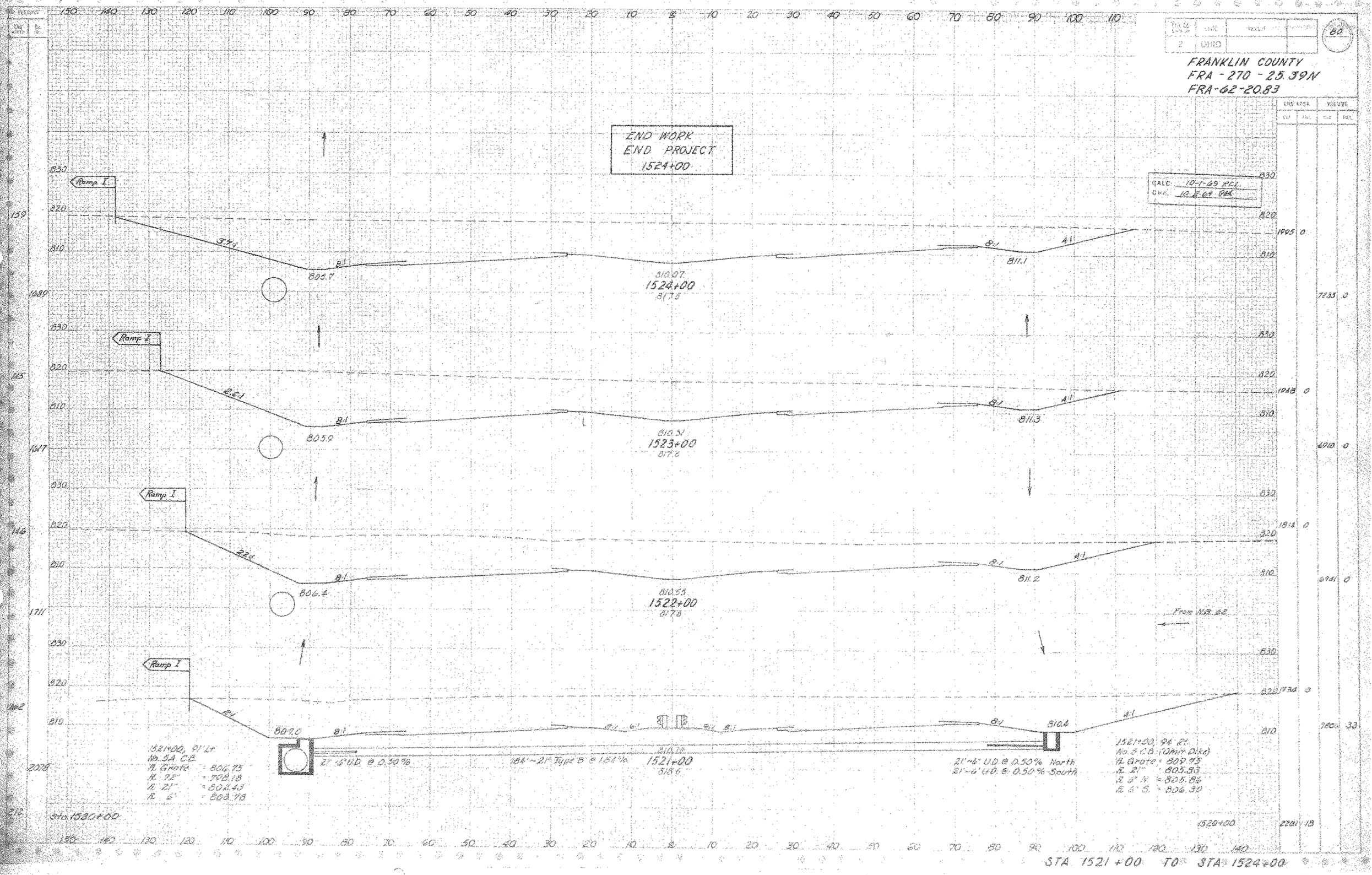


CALC 10-1-69 RCL
CHK 10-2-69 GB
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
OHIO
Ramp D
US62-SB
SB-US62
Match line 1510+00
Match line 1509+00
Match line 1507+00
Match line 1506+00
1510+00
1509+00
1508+00
1507+00
1506+00
Bridge No FRA-270-2645
Under USR-62-38
For Details See Sheet No 176
Ahead
Back
Ramp H
128'-21" Type "B" @ 0.72%
116'-18" Type "B" @ 1.04%
STA 1506+00 TO STA 1510+00



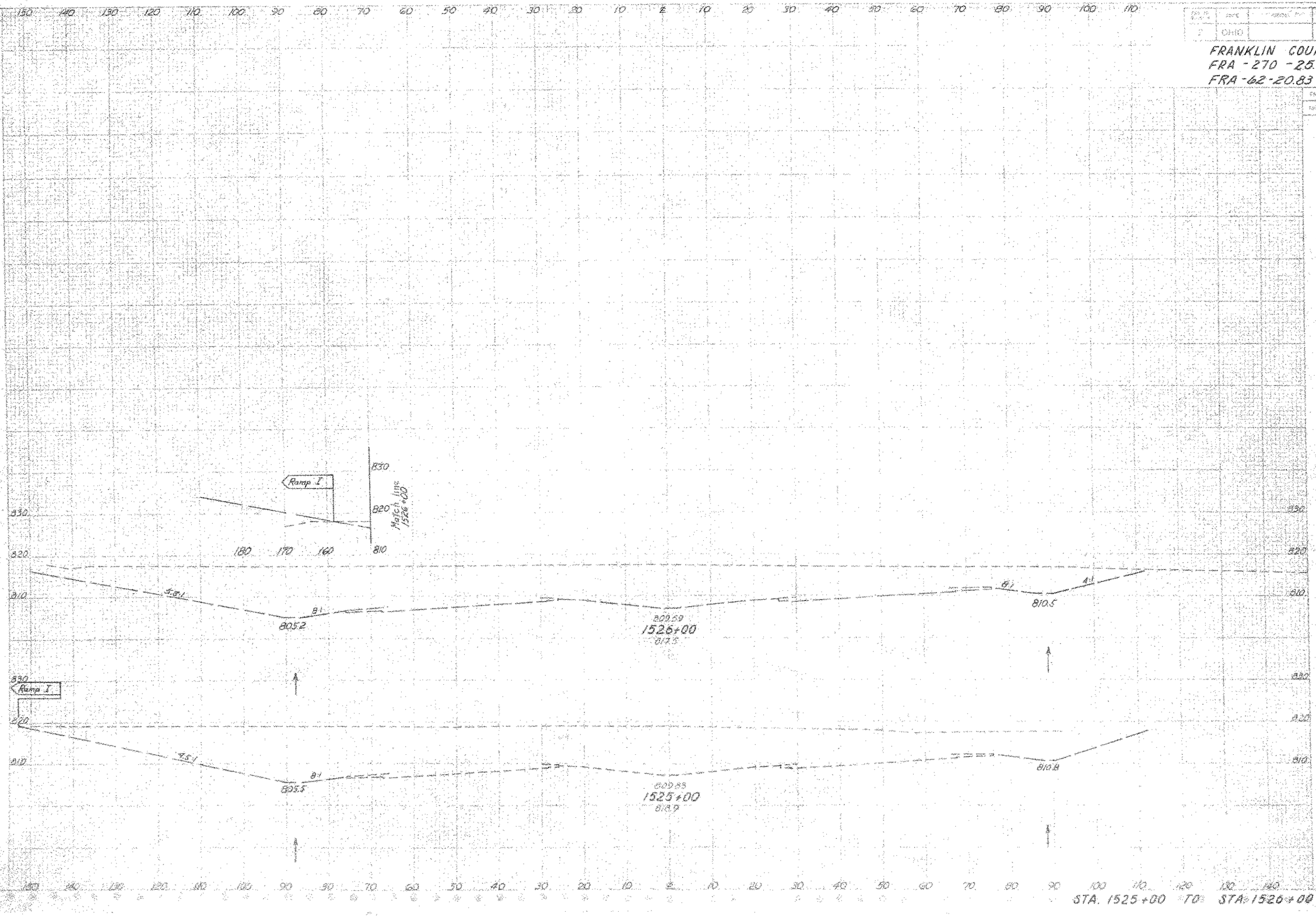
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC. 10-1-69 RCL
CHK. 10-8-69
END AREA
VOLUME
1515+00
1514+00
1513+00
1512+00
1511+00
Ramp D
Ramp F
SB-US 62
Ahead 1513+00
Back 1513+00
1513+00 Ahead
1513+00 Back
1512+00, 12 Lt. Pt.
No. 5 C.B. (Omit Dike)
Sta. 1510+00
STA. 1511+00 TO STA. 1515+00


FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC. 10-1-69 RCL
CHK. 10-2-69 [illegible]
US.62-NB
Rock CP, As per plan
25' x 14' x 1.5'
82" x 10' x 2' Rock CP
Match line 1520+00
811.03
1520+00
818.6
Bridge No FRA-270-2667
Under Ramp J
For Details See Sheet 89
Bridge No FRA-62-2160
Under USR-62 NB & Ramp D
For Details See Sheet No 214
Ramp I
811.27
1519+00
818.8
1517+63 E
No. 4 C.B.
Pl. Grate = 808.60
Pl. 15" = 805.30
108'-15" Type "B" @ 3.48%
Pl. 15" = 801.51
811.51
1518+00
819.7
Ramp I ahead
Ramp F back
NB-US.62
Match line 1516+00
811.75
1517+00
819.9
Ramp F
811.99
1516+00
821.0
Sta. 1515+00
STA. 1516+00 TO STA. 1520+00



FRANKLIN COUNTY
FRA - 270 - 25.39N
FRA-62-20.83
END WORK
END PROJECT
1524+00
Ramp I
3.7:1
8:1
805.7
810.07
1524+00
817.5
811.1
4:1
Ramp I
2.6:1
8:1
805.9
810.31
1523+00
817.6
811.3
4:1
Ramp I
2.2:1
8:1
806.4
810.55
1522+00
817.8
811.2
4:1
From NB 62
Ramp I
2:1
807.0
8:1
810.70
1521+00
818.6
810.4
4:1
1521+00, 91' Lt.
No. 5A C.B.
Fl. Grate = 806.75
Fl. 72" = 798.18
Fl. 21" = 802.43
Fl. 6" = 803.78
21'-6" U.D. @ 0.50%
184'-21" Type B @ 1.84%
21'-6" U.D. @ 0.50% North
21'-6" U.D. @ 0.50% South
1521+00, 94' Rt.
No. 5 C.B. (Omit Dike)
Fl. Grate = 809.75
Fl. 21" = 805.83
Fl. 6" N. = 805.86
Fl. 6" S. = 806.30
Sta. 1520+00
1520+00
STA 1521+00 TO STA 1524+00

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

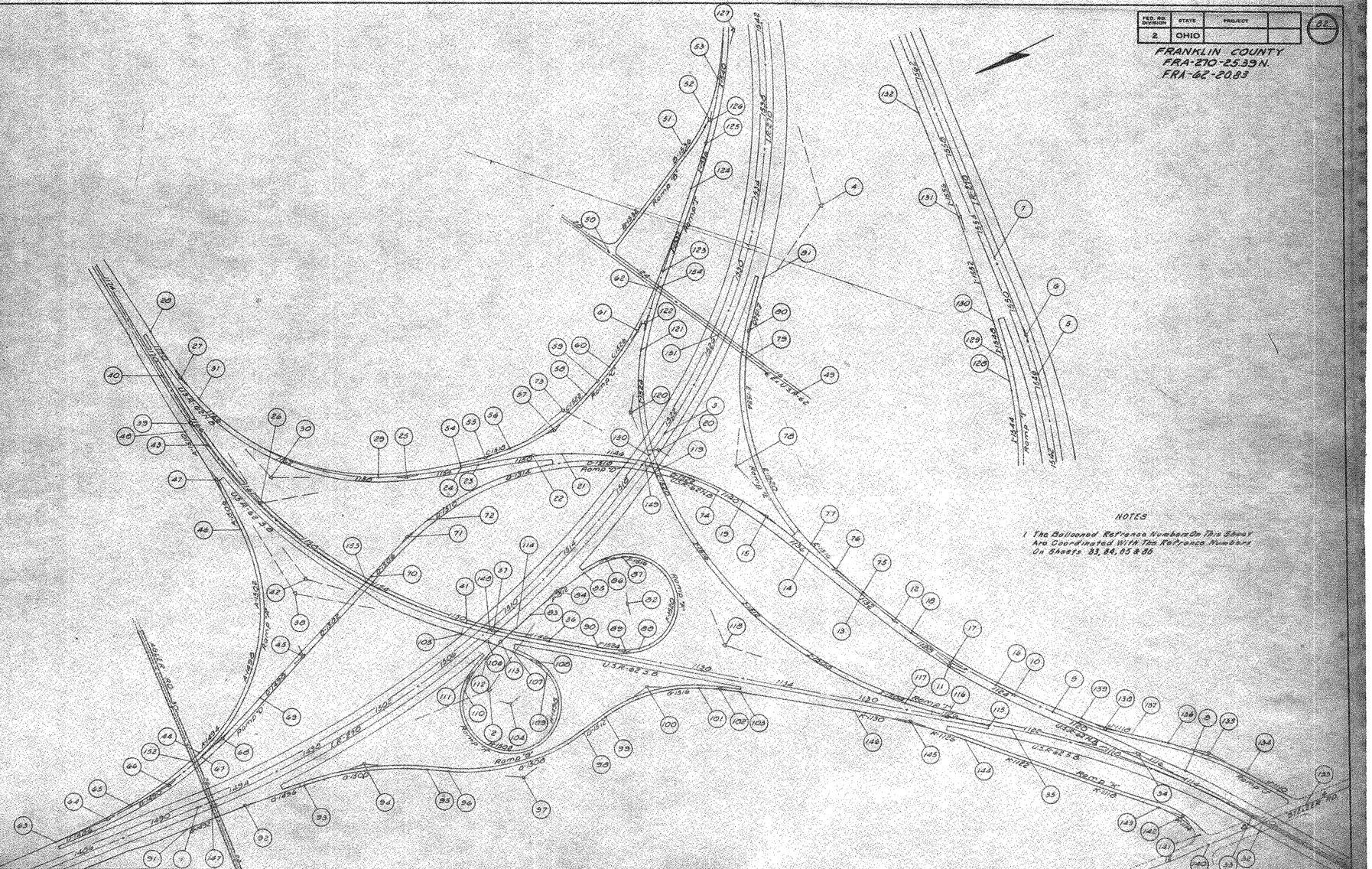


STA. 1525+00 TO STA. 1526+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

02

FRANKLIN COUNTY
FRA-270-25.33 N.
FRA-62-20.83


U.S.R.-62 S.B.
U.S.R.-62 N.B.
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NOTES

1. The Ballooned Reference Numbers For This Sheet Are Coordinated With The Reference Numbers On Sheets 82, 84, 85 & 86

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

REF. NOS.	BEARING	STATION	TAN. STATIONING	N. COORD.	E. COORD.
			I.R.-270		
1		1491+90.00		734,013.71	1,884,750.28
1 to 2	S.3°35'03"W.				
2		1506+98.66		734,508.00	1,884,655.97
2 to 4	S.29°38'53"E.				
3		1521+22.25		733,196.86	1,887,402.25
4		1534+01.89		732,092.60	1,888,064.93
4 to 6	S.79°46'18"E.				
5		1546+28.49		731,794.72	1,889,383.28
6		1548+28.64		731,759.17	1,889,580.31
6 to 7	S.85°46'18"E.				
7		1552+28.43		731,729.66	1,889,979.45
			U.S.R.-62 N.B.		
8		1114+50.00 =	625 B.(Tan.)1114+54.55, 34.27' Rt.	731,691.18	1,884,848.83
8 to 11	N.50°22'31"E.				
9		1121+37.05 =	625 B.(Tan.)1121+13.25, 121.72' Rt.	732,129.33	1,885,378.02
10		1123+37.08 =	625 B. 1123+07.76, 168.39' Rt.	732,256.92	1,885,532.09
11		1126+80.00 =	625 B. 1126+41.28, 224.41' Rt.	732,475.63	1,885,796.22
11 to 15	N.65°59'22"E.				
12		1130+17.78 =	625 B. 1129+40.83, 415.25' Rt.	732,615.16	1,886,109.47
13		1132+13.75 =	625 B. 1131+15.59, 512.54' Rt.	732,696.56	1,886,292.19
14		1135+44.72 =	270(Tan.)1520+52.33, 887.39' Lt.	732,829.60	1,886,590.87
15		1138+11.64 =	270(Tan.)1520+66.27, 621.20' Rt.	732,938.21	1,886,834.89
10 to 17	N.53°22'31"E.				
16		1124+37.05 =	625 B. 1124+30.97, 198.79' Rt.	732,316.60	1,885,612.87
17		1126+17.97 =	625 B. 1126+34.67, 283.19' Rt.	732,460.32	1,885,805.12
17 to 18	N.62°59'22"E.				
18		1129+17.75 =	625 B. 1128+51.01, 371.21' Rt.	732,569.74	1,886,020.36
18 to 20	N.30°13'22"E.				
19		1139+44.72 =	270(Tan.)1520+61.54, 481.72' Rt.	733,008.35	1,886,940.39
20		1144+12.54 =	270(Tan.)1520+44.96, 30.19' Rt.	733,254.02	1,887,346.48
20 to 22	N.29°33'48"E.				
21		1148+51.49 =	270(Tan.)1517+64.81, 354.46' Lt.	733,682.84	1,887,533.49
22		1149+85.05 =	270(Tan.)1518+88.82, 461.42' Lt.	733,805.26	1,887,596.89
22 to 26	N.15°33'48"E.				
23		1152+51.49 =	270 1514+10.20, 687.90' Lt.	734,061.97	1,887,659.99
24		1153+38.01 =	270 1513+31.22, 660.00' Lt.	734,145.18	1,887,683.69
25		1156+05.10 =	270 1513+73.48, 813.75' Lt.	734,402.06	1,887,756.84
26		1163+19.05 =	625 B.(Tan.)1161+19.16, 85.62' Rt.	735,088.70	1,887,952.39
26 to 28	N.84°11'48"E.				
27		1168+37.73 =	625 B.(Tan.)1168+32.98, 71.35' Rt.	735,140.90	1,888,662.68
28		1171+04.01 =	625 B. 1171+00.00, 66.00' Rt.	735,187.91	1,888,928.40
25 to 30	N.25°53'48"E.				
29		1157+38.01 =	625 B.(Tan.)1157+38.88, 23.22' Rt.	734,522.36	1,887,815.25
30		1162+51.80 =	625 B.(Tan.)1161+97.66, 186.51' Rt.	734,984.55	1,888,039.64
30 to 27	N.74°11'48"E.				
31		1167+04.01 =	625 B.(Tan.)1167+01.78, 57 Rt.	735,124.48	1,888,534.01
			U.S.R.-625 B.		
32		1110+08.62 =	STELZER RD. 7+14.95	731,462.17	1,884,464.67
32 to 34	N.54°48'18"E.				
33		1110+69.86		731,497.46	1,884,514.71
34		1116+85.95		731,852.54	1,885,018.16
34 to 38	N.36°52'52"E.				
35		1122+91.94		732,345.33	1,885,387.90
36		1145+48.42	270 1509+67.13, 102.07' Rt.	734,150.25	1,886,742.14
37		1148+15.19	270 1508+40.08, 162.83' Lt.	734,363.64	1,886,902.25
38		1157+81.13		735,136.28	1,887,481.96
38 to 40	N.85°20'31"E.				
39		1166+20.28		735,214.72	1,888,444.71
40		1168+86.85		735,236.39	1,888,710.60
37 to 42	N.41°52'52"E.				
41		1149+48.42	62 S.B. 1149+49.12, 11.63' Rt.	734,462.99	1,886,991.32
42		1157+47.98	62 S.B. 1157+49.54, 81.31' Rt.	735,058.21	1,887,525.03
42 to 35	N.80°20'31"E.				
43		1164+86.85	62 S.B. 1168+87.16, 11.63' Rt.	735,192.34	1,888,313.17
			RAMP "A"		
44		A-1493+13.61 =	270 1498+94.05, 242.78' Lt. = D-1493+13.61, 20.00' Lt.	735,894.69	1,886,306.06
44 to 45	S.17°31'30"E.				
45		A-1500+01.24 =	625 B. 1156+89.93, 29.67' Lt.	735,238.98	1,887,193.12
45 to 47	S.89°02'20"E.				
46		A-1505+05.51 =	625 B. 1160+58.92, 59.49' Lt.	735,227.45	1,887,880.65
47		A-1507+76.86 =	625 B. 1163+28.95, 31.92' Lt.	735,222.93	1,888,151.94
47 to 48	N.89°00'53"E.				
48		A-1510+47.30 =	625 B. 1166+00.06, 42.99' Lt.	735,235.89	1,888,421.26
			RAMP "B"		
49		Ex.U.S.R. 62 14+17.79 =	270 1528+49.88, 414.29' Rt.	732,536.17	1,887,301.61
49 to 50	Sec. I N.63°18'19"E. Sec. II N.63°17'07"E.				
50		B-1530+00.22 =	Ex.U.S.R. 62 26+00.00	733,043.01	1,888,309.58
50 to 52	S.26°41'41"E.				
51		B-1536+10.39 =	270 1537+18.43, 850.08' Lt.	732,497.96	1,888,583.64
52		B-1538+02.66 =	270 1538+32.13, 396.32' Lt.	732,326.18	1,888,670.02
52 to 53	S.53°08'02"E.				
53		B-1539+69.09 =	270 1540+04.00, 310.12' Lt.	732,210.83	1,888,823.85

REF. NOS.	BEARING	STATION	TAN. STATIONING	N. COORD.	E. COORD.
			RAMP "C"		
54		C-1516+16.42 =	62 N.B. 1153+38.01, 25.00' Rt.	734,138.34	1,887,707.73
54 to 55	S.14°27'43"W.				
55		C-1517+41.74 =	62 N.B.(Tan.)1152+12.73, 28.13' Rt.	734,016.99	1,887,676.44
55 to 57	S.4°27'43"W.				
56		C-1518+66.42 =	62 N.B. 1150+89.90, 52.98' Rt.	733,892.05	1,887,666.69
57		C-1520+99.35 =	270 1518+41.73, 443.08' Lt.	733,659.84	1,887,648.57
57 to 59	S.22°57'12"E.				
58		C-1523+23.34 =	270 1520+73.08, 415.95' Lt.	733,445.36	1,887,739.40
59		C-1524+11.29 =	270 1521+60.90, 405.65' Lt.	733,364.38	1,887,773.70
59 to 61	S.25°35'28"E.				
60		C-1524+99.20 =	270 1522+48.12, 399.46' Lt.	733,285.06	1,887,811.68
61		C-1527+16.20 =	270 1524+64.56, 384.17' Lt.	733,089.35	1,887,905.41
61 to 62	S.42°49'12"E.				
62		C-1529+29.92 =	270 1526+75.87, 433.56' Lt.	732,930.18	1,888,052.91
			RAMP "D"		
63		D-1485+00.00 =	270 1485+00.00, 106.00' Lt.	736,695.73	1,886,899.21
63 to 64	S.2°23'26"W.				
64		D-1487+66.82 =	270 1487+66.76, 111.56' Lt.	736,429.14	1,886,888.08
64 to 66	S.3°36'34"E.				
65		D-1489+00.00 =	270 1488+99.19, 128.27' Lt.	736,295.94	1,886,896.48
66		D-1491+05.29 =	270 1491+02.86, 153.98' Lt.	736,091.06	1,886,909.40
66 to 68	S.15°52'46"E.				
67		D-1493+09.00 =	270 1492+94.40, 222.38' Lt.	735,893.61	1,886,965.57
68		D-1494+42.47 =	270 1494+22.25, 283.85' Lt.	735,765.23	1,887,002.09
68 to 71	S.21°52'46"E.				
69		D-1497+09.00 =	270 1496+63.15, 381.57' Lt.	735,517.63	1,887,101.52
70		D-1505+10.34 =	62 S.B. 1158+92.33, 151.93' Rt.	734,774.01	1,887,400.14
71		D-1507+77.35 =	62 N.B. 1158+52.08, 23.39' Lt.	734,526.23	1,887,499.64
71 to 73	S.18°52'46"E.				
72		D-1509+10.34 =	62 N.B. 1155+38.93, 27.04' Lt.	734,395.93	1,887,529.43
73		D-1517+42.08 =	270 1519+38.43, 463.72' Lt.	733,605.18	1,887,714.83
73 to 74	S.53°25'48"W.				
74		D-1523+83.87 =	270 1520+39.87, 361.72' Rt. = 62 N.B. 1140+71.18, 174.1' Lt.	733,089.57	1,887,046.83
			RAMP "E"		
75		E-1512+76.05 =	62 N.B. 1132+17.75, 12.00' Rt.	732,685.60	1,886,297.07
75 to 76	N.65°59'22"E.				
76		E-1514+46.98 =	62 N.B. 1133+88.88, 12.00' Rt.	732,755.16	1,886,453.21
76 to 78	N.72°49'07"E.				
77		E-1516+17.50 =	62 N.B. 1135+58.43, 32.32' Rt.	732,805.64	1,886,616.51
78		E-1521+40.36 =	270 1521+86.44, 365.08' Rt.	732,960.09	1,887,116.04
78 to 80	S.58°07'44"E.				
79		E-1525+90.56 =	270 1526+46.02, 116.63' Rt.	732,684.01	1,887,560.07
80		E-1527+32.20 =	270 1527+03.06, 52.79' Rt.	732,613.41	1,887,673.63
80 to 81	S.49°07'44"E.				
81		E-1529+38.56 =	270 1530+18.87, 31.90' Lt.	732,435.15	1,887,872.52
			RAMP "F"		
82		Radius Pt.	270 1513+32.78, 313.45' Rt.	733,729.40	1,886,741.92
83		F-1510+38.57 =	270 1510+18.27, 39.92' Lt.	734,187.36	1,886,835.79
83 to 84	S.17°20'37"E.				
84		F-1512+01.30 =	270 1511+89.22, 9.82' Lt.	734,010.11	1,886,944.90
84 to 86	S.7°29'01"E.				
85		F-1513+65.23 =	270 1513+91.79, 37.37' Rt.	733,842.78	1,886,966.36
86		F-1514+93.89 =	270 1516+50.39, 103.65' Rt.	733,715.81	1,886,983.05
86 to 87	S.20°30'39"W.				
87		F-1515+65.23 =	270 1515+06.76, 123.44' Rt.	733,649.00	1,886,956.57
88		F-1522+50.23 =	625 B. 1141+14.50, 44.39' Rt.	733,776.59	1,886,517.69
88 to 89	N.11°52'52"E.				
89		F-1523+13.59 =	625 B. 1141+78.34, 15.53' Rt.	733,843.03	1,886,531.63
89 to 90	N.36°52'52"E.				
90		F-1524+50.69 =	625 B. 1143+11.03, 15.99' Rt.	733,950.77	1,886,612.46
			RAMP "G"		
91		G-1491+00.00 =	270 1491+00.00, 78.00' Rt.	736,178.41	1,886,678.06
91 to 92	S.3°35'03"W.				
92		G-1493+99.24 =	270 1493+99.24, 78.00' Rt.	736,009.75	1,886,659.35
92 to 94	S.3°34'35"W.				
93		G-1495+98.33 =	270 1496+98.08, 93.61' Rt.	735,512.40	1,886,625.09
94		G-1500+02.81 =	270 1502+02.13, 103.51' Rt.	735,210.02	1,886,530.22
94 to 97	S.30°34'30"W.				
95		G-1502+98.35 =	270 1502+73.43, 247.59' Rt.	734,947.89	1,886,433.34
96		G-1504+02.83 =	270 1503+61.85, 298.11' Rt.	734,857.93	1,886,382.70
97		G-1507+62.21 =	270 1506+35.76, 459.22' Rt.	734,549.82	1,886,199.39
97 to 100	S.10°40'18"E.				
98		G-1510+90.28 =	62 S.B. 1142+86.73, 90.88' Lt.	734,195.36	1,886,265.93
99		G-1512+21.63 =	625 B. 1142+10.05, 311.06' Lt.	734,066.29	1,886,290.25
100		G-1514+89.07 =	625 B. 1140+43.04, 128.47' Lt.	733,823.11	1,886,336.07
100 to 102	S.27°26'56"W.				
101		G-1516+98.13 =	625 B. 1137+93.94, 27.92' Lt.	733,603.52	1,886,222.01
102		G-1517+98.29 =	625 B. 1137+00.13, 71.50' Lt.	733,514.63	1,886,175.94
102 to 103	S.35°26'56"W.				
103		G-1518+90.13 =	625 B. 1136+00.00, 69.00' Lt.	733,433.04	1,886,117.75

REF. NOS.	BEARING	STATION	TAN. STATIONING	N. COORD.	E. COORD.
			RAMP "H"		
104		Radius Pt.	270 1506+89.03, 3.38' Rt. = 625 B.(Tan.)1146+70.01, 382.74' Lt.	734,447.20	1,886,548.96
105		H-1491+38.38 =	625 B. 1149+63.76, 411.18' Lt.	734,509.38	1,886,960.30
105 to 106	S.42°28'03"W.				
106		H-1492+69.97 =	625 B. 1148+35.78, 53.95' Lt.	734,412.49	1,886,871.45
106 to 108	S.59°02'24"W.				
107		H-1494+01.28 =	625 B.(Tan.)1147+07.14, 81.66' Lt.	734,336.22	1,886,772.08
108		H-1495+30.34 =	625 B.(Tan.)1145+00.98, 108.55' Lt.	734,241.62	1,886,674.62
108 to 109	S.76°32'24"W.				
109		H-1496+01.28 =	625 B.(Tan.)1145+23.74, 156.30' Lt.	734,224.31	1,886,602.31
110		H-1505+39.68 =	270 1505+64.34, 38.70' Lt.	734,619.80	1,886,639.74
110 to 111	S.48°51'40"E.				
111		H-1506+14.03 =	270 1506+29.66, 95.62' Lt.	734,570.89	1,886,755.75
111 to 113	S.21°21'40"E.				
112		H-1507+39.68 =	270 1507+33.00, 99.21' Lt.	734,450.70	1,886,802.74
113		H-1508+41.34 =	270 1508+36.53, 84.58' Lt.	734,353.03	1,886,839.77
113 to 114	S.16°16'54"E.				
114		H-1509+42.86 =	270 1509+38.90, 61.05' Lt.	734,258.45	1,886,868.27
			RAMP "I"		
115		I-1499+18.23 =	625 B. 1124+00.00, 4.00' Lt.	732,434.17	1,885,449.55
115 to 116	N.38°01'36"E.				
116		I-1501+26.37 =	625 B. 1126+08.09, 0.16' Rt.	732,598.12	1,885,577.77
116 to 118	N.44°07'35"E.				
117		I-1503+34.11 =	625 B. 1128+14.57, 26.41' Rt.	732,747.52	1,885,722.89
118		I-1512+40.77 =	625 B. 1137+13.99, 140.76' Rt.	733,398.33	1,886,353.94
118 to 120	S.85°05'08"E.				
119		I-1520+27.10 =	270 1518+42.95, 69.78' Rt.	733,320.63	1,887,257.26
120		I-1523+35.66 =	270 1521+18.01, 189.32' Lt.	733,254.19	1,887,564.69
120 to 122	S.54°56'34"E.				
121		I-1526+29.32 =	270 1523+86.99, 321.15' Lt.	733,118.95	1,887,817.27
122		I-1527+43.64 =	270 1525+74.29, 347.01' Lt.	733,040.12	1,887,926.73
122 to 125	S.44°56'34"E.				
123		I-1530+29.92 =	270 1527+73.52, 448.73' Lt.	732,851.09	1,888,115.40
124		I-1534+48.25 =	270 1531+79.22, 559.16' Lt.	732,554.89	1,888,411.06
125		I-1536+01.89 =	270 1534+09.39, 820.73' Lt.	732,389.63	1,888,575.96
125 to 127	S.50°11'34"E.				
126		I-1537+98.45 =	270 1538+29.82, 388.45' Lt.	732,314.08	1,888,665.65
127		I-1542+29.16 =	270 1542+08.82, 171.85' Lt.	732,039.13	1,888,996.53
127 to 129	S.75°36'37"E.				
128		I-1546+45.70 =	270 1546+34.00, 140.60' Lt.	731,932.10	1,889,413.73
129		I-1547+59.25 =	270 1547+47.23, 132.98' Lt.	731,903.80	1,889,523.71
129 to 131	S.80°48'37"E.				
130		I-1549+45.70 =	270 1549+47.03, 128.00' Lt.	731,874.07	1,889,707.95
131		I-1554+77.60 =	270(Tan.)1554+79.93, 78.00' Lt.	731,789.13	1,890,233.02
131 to 132	S.85°46'18"E.				
132		I-1560+08.83 =	270(Tan.)1560+08.83, 78.00' Lt.	731,749.91	1,890,763.48
			RAMP "J"		
133		J-1108+52.68 =	625 B. 1109+74.24, 167.77' Rt.	731,247.82	1,884,481.53
133 to 135	N.54°47'23"E.				
134		J-1111+73.18 =	625 B. 1111+34.75, 187.66' Rt.	731,432.41	1,884,713.80
135		J-1113+72.83 =	625 B. 1113+34.08, 167.53' Rt.	731,547.35	1,884,876.29
135 to 138	N.38°54'35"E.				
136		J-1115+69.34 =	62 S.B. 1115+95.83, 113.14' Rt.	731,702.40	1,885,001.59
137		J-1117+50.00 =	62 S.B. 1117+26.36, 83.36' Rt.	731,842.92	1,885,115.14
138		J-1118+75.32 =	62 S.B. 1118+51.60, 87.83' Rt.	731,940.38	1,885,193.91
138 to 139	N.40°56'35"E.				
139		J-1120+00.00 =	62 S.B. 1119+74.13, 114.05' Rt.	732,022.69	1,885,258.41
			RAMP "K"		
140		K-1112+21.94 =	625 B. 1111+89.63, 212.15' Lt.	731,749.19	1,884,481.85
140 to 142	N.73°33'22"E.				
141		K-1112+83.23 =	625 B. 1112+42.65, 200.01' Lt.	731,760.51	1,884,540.64
142		K-1114+04.07 =	625 B. 1113+57.08, 161.10' Lt.	731,794.65	1,884,656.56
142 to 145	N.45°11'00"E.				
143		K-1115+19.35 =	625 B. 1114+76.21, 151.50' Lt.	731,879.02	1,884,742.28
144		K-1124+94.52 =	625 B. 1124+98.85, 99.03' Lt.	732,568.15	1,885,435.05
145		K-1127+73.34 =	625 B. 1127+72.11, 56.00' Lt.	732,763.55	1,885,631.68
145 to 146	N.36°53'52"E.				
146		K-1130+50.00 =	625 B. 1130+50.00, 56.00' Lt.	732,985.30	1,885,798.06
147			I.R. 270 Sta. 1492+56.69 = ADLER RD. Sta. 25+00.00	735,947.12	1,886,714.55
148			I.R. 270 Sta. 1505+44.02 = U.S.R. 625 B. Sta. 1146+13.17	734,375.46	1,886,916.36
149			I.R. 270 Sta. 1519+60.28 = U.S.R. 62 N.B. Sta. 1144+47.76	733,338.92	1,887,324.38
150			I.R. 270 Sta. 1519+97.34 = Sta. I-1521+09.93	733,310.55	1,887,339.44
151			U.S.R. 62 Sta. 13+39.69 = I.R. 270 Sta. 1528+14.11	732,796.37	1,887,719.65
152			ADLER RD. Sta. 27+08.58 = Sta. D-1497+61.65	735,933.50	1,886,954.69
153			U.S.R. 625 B. Sta. 1156+15.49 = Sta. D-1506+69.76	734,611.67	1,887,395.02
154			U.S.R. 62 Sta. 23+13.27 = Sta. I-1529+31.14	732,913.75	1,888,052.61

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84

FRANKLIN COUNTY
FRA-270-25.39N.
FRA-62-20.83

(2)
I.R-270
P.I.Sta.1504+98.66
Δ = 33°13'56"
D = 1°08'00"
R = 5035.51'
L = 2932.55'
T = 1508.66'
E = 220.31'

(4)
I.R-270
P.I.Sta.1534+61.89
Δ = 50°07'25"
D = 2°00'00"
R = 2864.79'
L = 2506.19'
T = 1339.64'
E = 297.75'

(6)
I.R-270
P.I.Sta.1540+28.64
L = 600.00'
D = 2°00'00"
R = 2864.79'
Bs = 6°00'00"
p = 5.23'
k = 299.89'
x = 599.34'
y = 20.93'
LT = 400.23'
ST = 200.21'
LC = 599.71'

(10)
U.S.R-62 N.B.
P.I.Sta.1123+97.06
L = 300.00'
D = 2°00'00"
R = 2864.79'
Bs = 3°00'00"
p = 1.31'
k = 149.99'
x = 299.92'
y = 5.24'
LT = 200.03'
ST = 100.03'
LC = 299.96'

(11)
U.S.R-62 N.B.
P.I.Sta.1126+60.00
Δ = 15°36'51"
D = 2°00'00"
R = 2864.79'
L = 780.10'
T = 392.95'
E = 26.12'

(12)
U.S.R-62 N.B.
P.I.Sta.1130+17.78
L = 300.00'
D = 2°00'00"
R = 2864.79'
Bs = 3°00'00"
p = 1.31'
k = 149.99'
x = 299.92'
y = 5.24'
LT = 200.03'
ST = 100.03'
LC = 299.96'

(15)
U.S.R-62 N.B.
P.I.Sta.1138+11.84
L = 400.00'
D = 3°50'00"
R = 1494.67'
Bs = 7°40'00"
p = 4.46'
k = 199.88'
x = 399.28'
y = 17.82'
LT = 266.92'
ST = 133.56'
LC = 399.68'

(17)
U.S.R-62 N.B.
P.I.Sta.1126+77.97
Δ = 9°36.5'
D = 2°00'00"
R = 2864.79'
L = 480.10'
T = 240.92'
E = 10.11'

(20)
U.S.R-62 N.B.
P.I.Sta.1144+12.54
Δ = 34°45'54"
D = 3°50'00"
R = 1494.67'
L = 906.77'
T = 467.82'
E = 71.50'

(22)
U.S.R-62 N.B.
P.I.Sta.1149+85.03
L = 400.00'
D = 3°50'00"
R = 1494.67'
Bs = 7°40'00"
p = 4.46'
k = 199.88'
x = 399.28'
y = 17.82'
LT = 266.92'
ST = 133.56'
LC = 399.68'

(25)
U.S.R-62 N.B.
P.I.Sta.1156+05.10
L = 400.00'
D = 5°00'00"
R = 1145.92'
Bs = 10°00'00"
p = 5.81'
k = 199.80'
x = 398.78'
y = 23.22'
LT = 267.09'
ST = 133.72'
LC = 399.46'

(26)
U.S.R-62 N.B.
P.I.Sta.1163+19.05
Δ = 68°18'00"

(27)
U.S.R-62 N.B.
P.I.Sta.1166+37.73
L = 400.00'
D = 5°00'00"
R = 1145.92'
Bs = 10°00'00"
p = 5.81'
k = 199.80'
x = 398.78'
y = 23.22'
LT = 267.09'
ST = 133.72'
LC = 399.46'

(30)
U.S.R-62 N.B.
P.I.Sta.1162+51.60
Δ = 48°18'00"
D = 5°00'00"
R = 1145.92'
L = 966.00'
T = 513.78'
E = 109.91'

(34)
U.S.R-62 S.B.
P.I.Sta.1116+85.93
Δ = 17°55'26"
D = 1°28'00"
R = 3906.53'
L = 1222.08'
T = 616.01'
E = 48.26'

(37)
U.S.R-62 S.B.
P.I.Sta.1149+15.19
L = 400.00'
D = 2°30'00"
R = 2291.83'
Bs = 5°00'00"
p = 2.91'
k = 199.95'
x = 399.70'
y = 11.63'
LT = 266.77'
ST = 133.43'
LC = 399.87'

(38)
U.S.R-62 S.B.
P.I.Sta.1137+01.13
Δ = 48°27'39"

(39)
U.S.R-62 S.B.
P.I.Sta.1146+20.28
L = 400.00'
D = 2°30'00"
R = 2291.83'
Bs = 5°00'00"
p = 2.91'
k = 199.95'
x = 399.70'
y = 11.63'
LT = 266.77'
ST = 133.43'
LC = 399.87'

(42)
U.S.R-62 S.B.
P.I.Sta.1151+47.88
Δ = 30°37'39"
D = 2°30'00"
R = 2291.83'
L = 1224.48'
T = 629.46'
E = 135.44'

(45)
RAMP "A"
P.I.Sta.A-1500+01.24
Δ = 71°30'50"
D = 6°00'00"
R = 954.93'
L = 1191.90'
T = 687.62'
E = 221.01'

(47)
RAMP "A"
P.I.Sta.A-1507+76.04
Δ = 7°56'47"
D = 12°28'00"
R = 3906.53'
L = 541.80'
T = 271.33'
E = 9.41'

(52)
RAMP "B"
P.I.Sta.B-1530+02.66
Δ = 26°26'21"
D = 7°00'00"
R = 818.51'
L = 377.70'
T = 192.28'
E = 22.20'

(53)
RAMP "C"
P.I.Sta.C-1517+41.74
Δ = 10°00'00"
D = 4°00'00"
R = 1432.39'
L = 250.00'
T = 125.32'
E = 5.47'

(57)
RAMP "C"
P.I.Sta.C-1520+99.35
Δ = 27°24'55"
D = 6°00'00"
R = 954.93'
L = 456.92'
T = 232.92'
E = 28.00'

(59)
RAMP "C"
P.I.Sta.C-1524+11.29
Δ = 2°38'16"
D = 1°30'00"
R = 3819.72'
L = 175.86'
T = 87.94'
E = 1.01'

(61)
RAMP "C"
P.I.Sta.C-1527+16.20
Δ = 17°13'44"
D = 4°00'00"
R = 1432.39'
L = 430.73'
T = 217.00'
E = 19.32'

(64)
RAMP "D"
P.I.Sta.D-1487+66.82
L = 400.00'
D = 3°00'00"
R = 1909.86'
Bs = 6°00'00"
p = 3.49'
k = 199.93'
x = 399.56'
y = 13.95'
LT = 266.82'
ST = 133.47'
LC = 399.81'

(66)
RAMP "D"
P.I.Sta.D-1491+05.23
Δ = 12°16'12"
D = 3°00'00"
R = 1909.86'
L = 409.00'
T = 205.29'
E = 11.00'

(69)
RAMP "D"
P.I.Sta.D-1494+42.47
L = 400.00'
D = 3°00'00"
R = 1909.86'
Bs = 6°00'00"
p = 3.49'
k = 199.93'
x = 399.56'
y = 13.95'
LT = 266.82'
ST = 133.47'
LC = 399.81'

(71)
RAMP "D"
P.I.Sta.D-1507+77.35
L = 400.00'
D = 4°30'00"
R = 1273.24'
Bs = 9°00'00"
p = 5.23'
k = 199.84'
x = 399.01'
y = 20.91'
LT = 267.01'
ST = 133.65'
LC = 399.56'

(75)
RAMP "D"
P.I.Sta.D-1517+42.08
Δ = 65°19'32"
D = 4°30'00"
R = 1273.24'
L = 1451.53'
T = 821.74'
E = 247.59'

(76)
RAMP "E"
P.I.Sta.E-1514+44.38
Δ = 6°49.45"
D = 2°00'00"
R = 2864.79'
L = 341.45'
T = 170.93'
E = 5.10'

(78)
RAMP "E"
P.I.Sta.E-1521+40.36
Δ = 49°03.39"
D = 3°00'00"
R = 1145.92'
L = 981.06'
T = 522.86'
E = 113.65'

(80)
RAMP "E"
P.I.Sta.E-1527+32.20
L = 400.00'
D = 5°00'00"
R = 1145.92'
Bs = 10°00'00"
p = 5.81'
k = 199.80'
x = 398.78'
y = 23.22'
LT = 267.09'
ST = 133.72'
LC = 399.46'

(84)
RAMP "F"
P.I.Sta.F-1512+01.30
Δ = 3°51'34"
D = 3°00'00"
R = 1909.86'
L = 128.66'
T = 64.34'
E = 1.09'

(86)
RAMP "F"
P.I.Sta.F-1514+93.29
Δ = 28°00'00"
Ls = 200.00'
Bs = 22°00'00"
P = 4.36'
D1 = 3°00'00"
R1 = 1909.86'
T1 = 128.06'
Δ1 = 3°00'00"
D2 = 25°00'00"
R2 = 229.18'
T2 = 73.82'
Δ2 = 25°00'00"

(89)
RAMP "F"
P.I.Sta.F-1523+19.59
L = 200.00'
D = 25°00'00"
R = 229.18'
Bs = 25°00'00"
p = 1.22'
k = 99.37'
x = 196.23'
y = 24.70'
LT = 134.69'
ST = 69.30'
LC = 190.31'

(92)
RAMP "G"
P.I.Sta.G-1493+99.24
Δ = 2°53'30"
D = 0°30'00"
R = 11459.16'
L = 578.35'
T = 289.24'
E = 3.91'

(94)
RAMP "G"
P.I.Sta.G-1500+02.81
Δ = 24°00'00"
D = 4°00'00"
R = 1432.39'
L = 600.00'
T = 302.47'
E = 32.00'

(97)
RAMP "G"
P.I.Sta.G-1507+42.21
Δ = 41°42'49"
D = 6°00'00"
R = 954.93'
L = 694.45'
T = 363.36'
E = 65.39'

(100)
RAMP "G"
P.I.Sta.G-1514+69.07
Δ = 38°07'18"
D = 6°00'00"
R = 716.20'
L = 476.50'
T = 247.45'
E = 41.54'

(102)
RAMP "G"
P.I.Sta.G-1517+30.29
Δ = 8°00'00"
D = 4°00'00"
R = 1432.39'
L = 200.00'
T = 100.15'
E = 3.50'

(106)
RAMP "H"
P.I.Sta.H-1492+05.97
Δ = 6°34.2"
D = 2°30'00"
R = 2291.83'
L = 262.30'
T = 131.39'
E = 3.73'

(108)
RAMP "H"
P.I.Sta.H-1495+30.34
Δ = 27°19'00"
Ls = 200.00'
Bs = 82°30'00"
P = 6.50'
D1 = 2°30'00"
R1 = 2291.83'
T1 = 129.06'
Δ1 = 2°30'00"
D2 = 25°00'00"
R2 = 229.18'
T2 = 74.35'
Δ2 = 25°00'00"

(111)
RAMP "H"
P.I.Sta.H-1500+14.03
Δ = 27°30'00"
Ls = 200.00'
Bs = 82°30'00"
P = 6.50'
D1 = 2°30'00"
R1 = 2291.83'
T1 = 129.06'
Δ1 = 2°30'00"
D2 = 25°00'00"
R2 = 229.18'
T2 = 74.35'
Δ2 = 25°00'00"

(113)
RAMP "H"
P.I.Sta.H-1503+41.34
Δ = 5°04.46"
D = 2°30'00"
R = 2291.83'
L = 203.18'
T = 101.66'
E = 2.25'

(116)
RAMP "I"
P.I.Sta.I-1501+26.37
Δ = 6°05.59"
D = 1°28'00"
R = 3906.53'
L = 415.88'
T = 208.12'
E = 5.54'

(118)
RAMP "I"
P.I.Sta.I-1512+40.71
Δ = 50°21.23"
D = 3°00'00"
R = 1909.86'
L = 1932.99'
T = 1006.48'
E = 204.29'

(120)
RAMP "I"
P.I.Sta.I-1523+35.66
Δ = 30°06.23"
D = 5°00'00"
R = 1145.92'
L = 602.22'
T = 308.56'
E = 40.82'

(122)
RAMP "I"
P.I.Sta.I-1527+63.64
L = 400.00'
D = 5°00'00"
R = 1145.92'
Bs = 10°00'00"
p = 5.81'
k = 199.80'
x = 398.78'
y = 23.22'
LT = 267.09'
ST = 133.72'
LC = 399.46'

(125)
RAMP "I"
P.I.Sta.I-1536+01.89
L = 350.00'
D = 5°00'00"
R = 1909.86'
Bs = 5°15.00"
p = 2.67'
k = 174.95'
x = 349.71'
y = 10.66'
LT = 233.44'
ST = 116.76'
LC = 349.87'

(127)
RAMP "J"
P.I.Sta.J-1542+29.16
Δ = 25°25.03"
D = 3°00'00"
R = 1905.86'
L = 847.23'
T = 430.71'
E = 47.97'

(129)
RAMP "J"
P.I.Sta.J-1547+83.25
Δ = 5°12.00"
Ls = 300.00'
Bs = 3°45.00"
P = 1.66'
D1 = 0°28.00"
R1 = 12277.67'
T1 = 199.63'
Δ1 = 0°42.00"
D2 = 3°00'00"
R2 = 1909.86'
T2 = 113.55'
Δ2 = 4°30'00"

(131)
RAMP "J"
P.I.Sta.J-1554+17.60
Δ = 4°57.41"
D = 0°28.00"
R = 12277.67'
L = 1060.13'
T = 531.50'
E = 11.52'

(135)
RAMP "J"
P.I.Sta.J-1113+12.53
Δ = 15°50.48"
D = 4°00'00"
R = 1432.39'
L = 396.01'
T = 199.36'
E = 13.81'

(139)
RAMP "J"
P.I.Sta.J-1118+75.32
Δ = 10°00'00"
D = 4°00'00"
R = 1432.39'
L = 250.00'
T = 125.32'
E = 5.47'

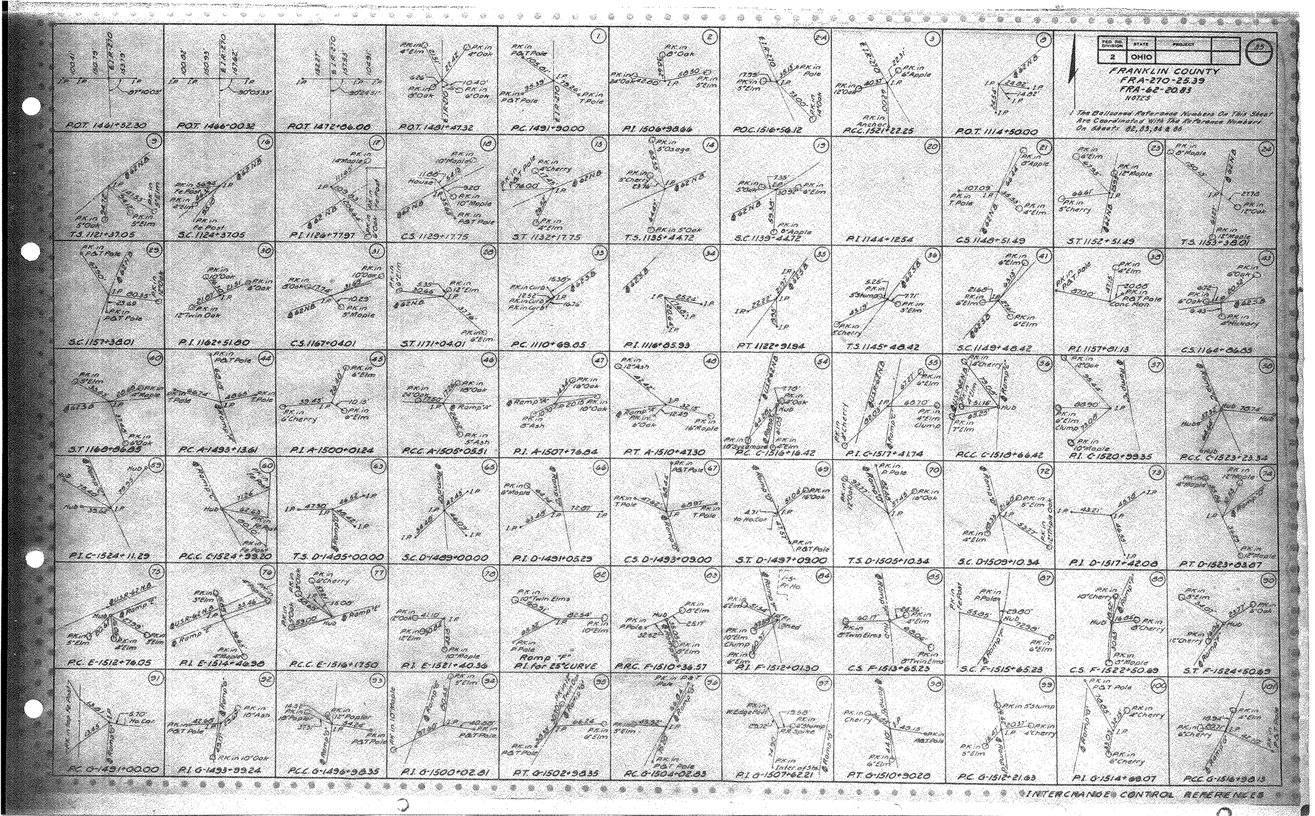
(142)
RAMP "K"
P.I.Sta.K-1114+04.07
Δ = 26°24'22"
D = 12°00'00"
R = 477.47'
L = 236.72'
T = 120.84'
E = 15.06'

(145)
RAMP "K"
P.I.Sta.K-1121+73.74
Δ = 9°18'06"
D = 1°30'00"
R = 3819.72'
L = 553.40'
T = 277.23'
E = 10.05'

NOTES

1 The Bolloneed Numbers On This Sheet Are Coordinated With The Reference Numbers On Sheets 82, 83, 85 & 86

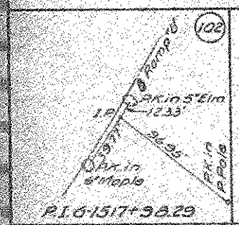
GEOMETRIC LAYOUT - CURVE DATA


FRANKLIN COUNTY
FRA-270-25.39
FRA-62-20.83
NOTES
1 The Bolforad Reference Numbers On This Sheet Are Coordinate With The ISTRuction Numbers On Sheet: 85, 85, 86 & 86
2 OHIO
P.O.T. 1481+52.30
P.O.T. 1466+00.32
P.O.T. 1472+06.06
P.O.T. 1481+87.32
P.C. 1491+90.00
P.I. 1506+39.66
P.O.C. 1516+56.12
P.C.C. 1521+22.25
P.O.T. 1114+50.00
T.S. 1121+37.05
S.C. 1124+37.05
P.I. 1126+77.97
C.S. 1129+17.75
S.T. 1132+17.75
T.S. 1135+44.72
S.C. 1139+44.72
P.I. 1144+12.54
C.S. 1148+51.49
S.T. 1152+51.49
T.S. 1153+38.01
S.C. 1157+38.01
P.I. 1162+51.00
C.S. 1167+04.01
S.T. 1171+04.01
P.C. 1110+69.05
P.I. 1118+65.93
P.T. 1122+91.94
T.S. 1145+46.42
S.C. 1149+46.42
P.I. 1157+61.13
C.S. 1164+06.63
S.T. 1168+06.63
P.C. A-1493+13.61
P.I. A-1500+01.24
P.C.C. A-1505+08.51
P.I. A-1507+76.84
P.T. A-1510+47.30
P.C. C-1516+16.42
P.I. C-1517+41.74
P.C.C. C-1518+66.42
P.I. C-1520+98.35
P.C.C. C-1523+23.53
P.I. C-1524+11.29
P.C.C. C-1524+33.20
T.S. D-1435+00.00
S.C. D-1439+00.00
P.I. D-1491+05.23
C.S. D-1493+09.00
S.T. D-1497+09.00
T.S. D-1505+10.34
S.C. D-1509+10.34
P.I. D-1517+42.06
P.T. D-1523+03.67
P.C. E-1512+76.05
P.I. E-1514+46.36
P.C.C. E-1516+17.50
P.I. E-1521+40.36
Ramp "F"
P.I. for 28°CURVE
P.R.C. F-1510+36.57
P.I. F-1512+01.30
C.S. F-1513+65.23
S.C. F-1515+65.23
C.S. F-1522+50.69
S.T. F-1524+50.69
P.C. G-1491+00.00
P.I. G-1493+39.24
P.C.C. G-1496+98.35
P.I. G-1500+02.81
P.T. G-1502+98.35
P.C. G-1504+02.83
P.I. G-1507+62.21
P.T. G-1510+30.20
P.C. G-1512+21.83
P.I. G-1514+88.07
P.C.C. G-1516+39.13
1 INTERCHANGE CONTROL REFERENCES

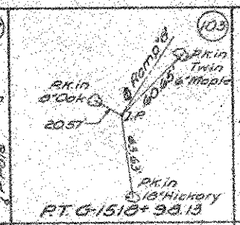
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

10

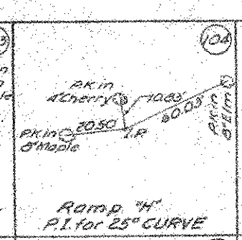
FRANKLIN COUNTY
FRA-270-25.39
FRA-62-20.83



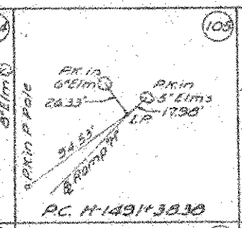
P.I. G-1517+98.29



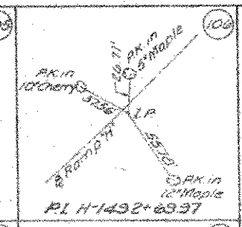
P.T. G-1518+98.13



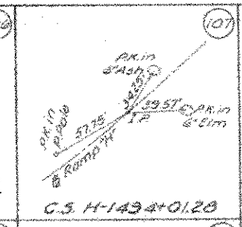
Ramp "H"
P.I. for 25° CURVE



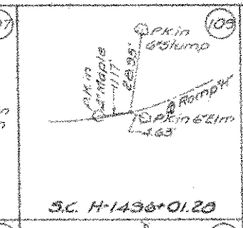
P.C. H-1491+38.38



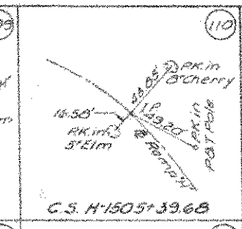
P.I. H-1492+69.37



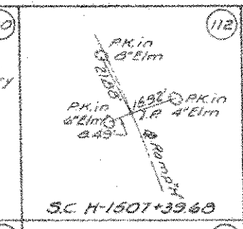
C.S. H-1434+01.28



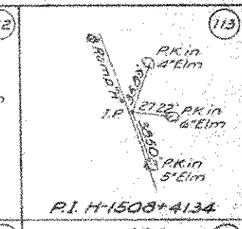
S.C. H-1436+01.28



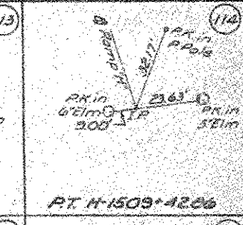
C.S. H-1505+39.68



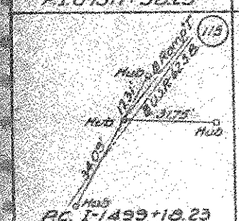
S.C. H-1507+39.68



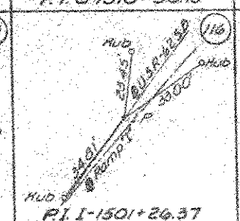
P.I. H-1508+41.34



P.T. H-1509+42.66



P.C. I-1499+18.23



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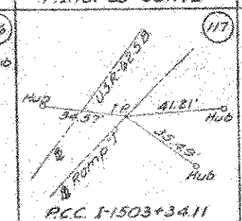
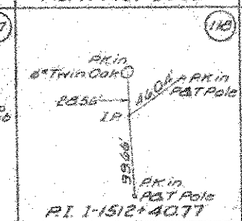


P.C.C. I-1503+34.11



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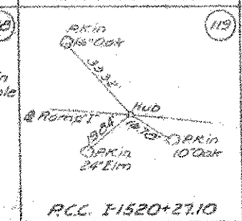
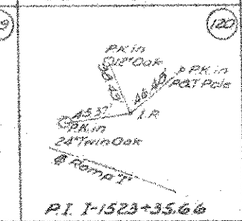


P.C.C. I-1520+27.10



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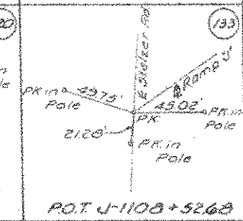
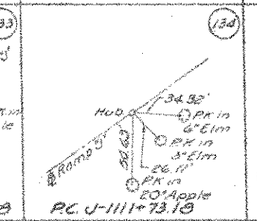
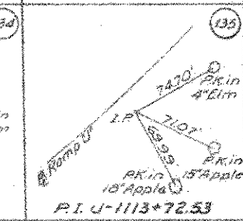


P.O.T. J-1108+52.68



P.C. J-1111+73.18



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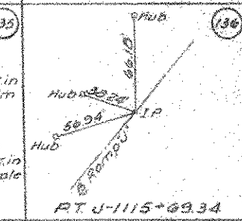
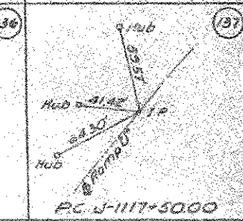
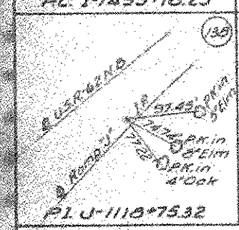


P.T. J-1115+69.34



P.C. J-1117+50.00



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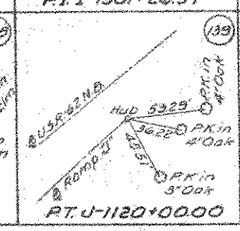
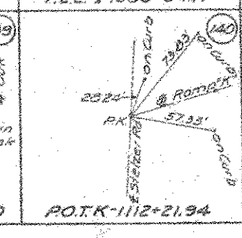
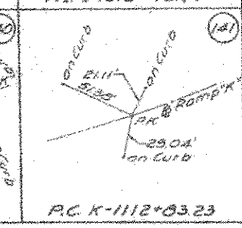


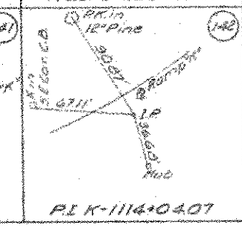
P.T. J-1120+00.00



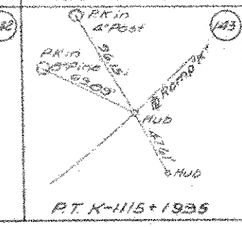
P.O.T. K-1112+21.94



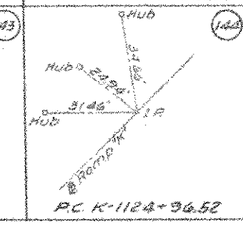
P.C. K-1112+83.23



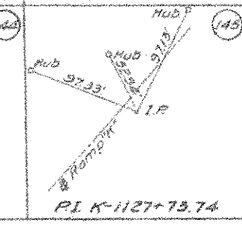
P.I. K-1114+04.07



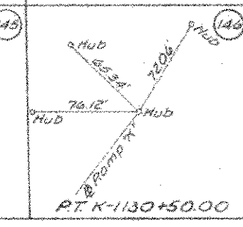
P.T. K-1115+19.95



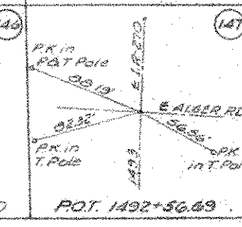
P.C. K-1124+36.52



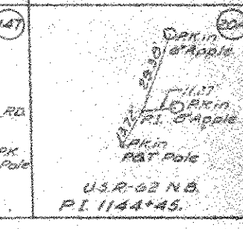
P.I. K-1127+73.74



P.T. K-1130+50.00



P.O.T. 1492+56.69



P.I. 1144+45.

NOTES

1. The Balloonod Reference Numbers For This Sheet Are Coordinated With The Reference Numbers On Sheets 82, 83, 84 & 85

INTERCHANGE CONTROL REFERENCES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

67

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

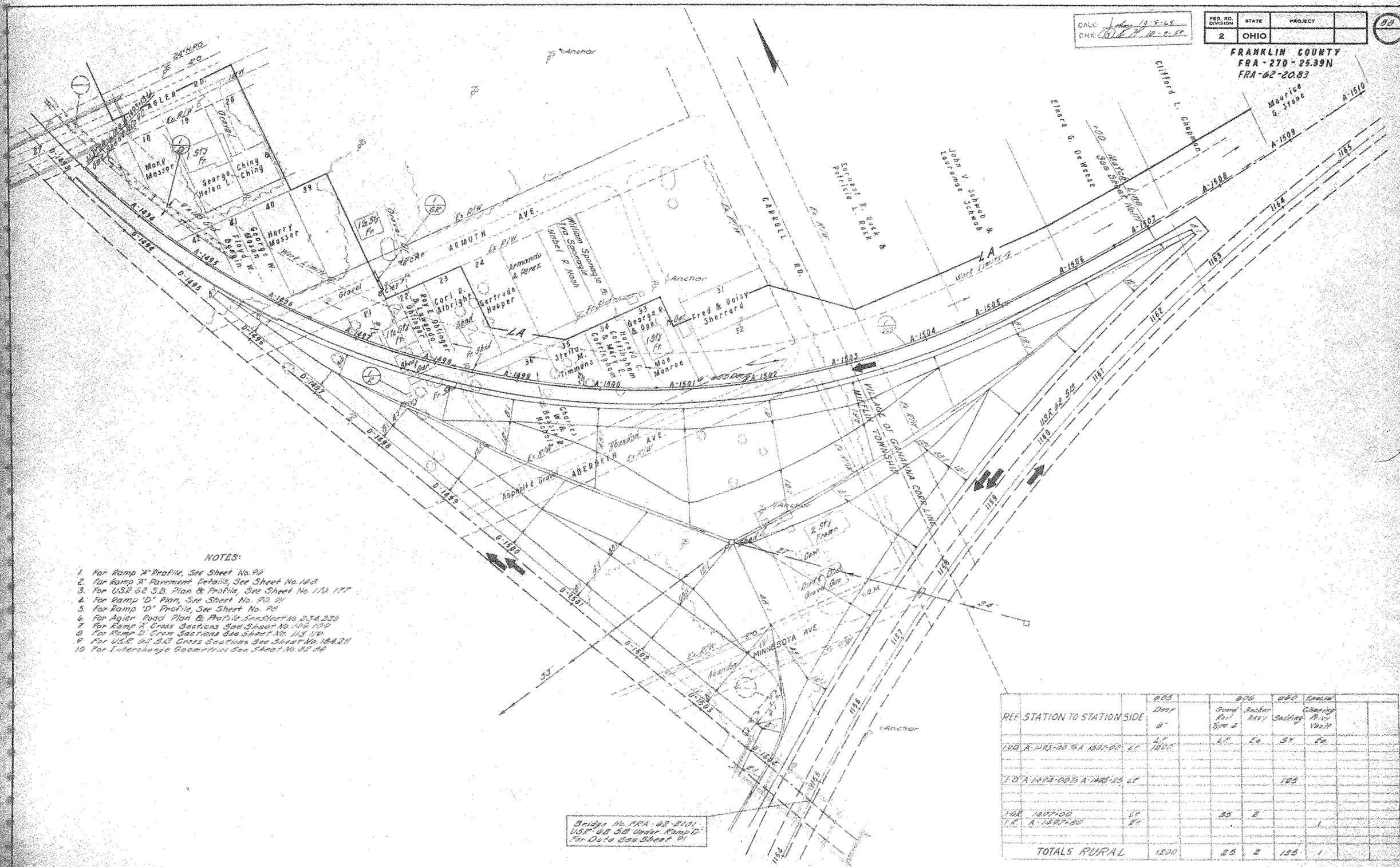

U.S. 62 & I-71
Ramp 'C'
Zero Section
Full Section 1155+53
Zero Section
Full Section 1150+28
Zero Section 1147+08
Full Section 1150+28
Zero Section
Ramp 'D'
Ramp 'H'
Full Section 1146+41
Zero Section 1144+20
Ramp 'G'
Relocated Griffin Blvd
Full Section 1140+50
Full Section 1145+93
End Work Reloc Channel 58+70
E. Reloc Channel
Ramp 'E'
Ramp 'F'
Full Section 1151+77
Full Section 1137+74
U.S. 62 & I-71
Ramp 'J'
Full Section 1139+00
Zero Section
Full Section 1138+56
Zero Section
Ramp 'K'
Full Section 1139+56
Full Section 1137+35
Zero Section
Full Section 1136+00
Zero Section
Full Section 1135+42
Zero Section 1135+03
Full Section 28+10
Zero Section 28+01
Full Section 1133+55
Zero Section
Full Section 1129+00
Zero Section
Full Section 1128+10
Zero Section
Full Section 1126+00
Zero Section
Full Section 1124+00
Zero Section
Full Section 1122+00
Zero Section
Full Section 1120+00
Zero Section
Full Section 1118+00
Zero Section
Full Section 1116+00
Zero Section
Full Section 1114+00
Zero Section
Full Section 1112+00
Zero Section
Full Section

CALC:	
CHK:	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

88

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83



NOTES:

1. For Ramp "A" Profile, See Sheet No. 96
2. For Ramp "A" Pavement Details, See Sheet No. 108
3. For USR 62 S.B. Plan & Profile, See Sheet No. 170, 177
4. For Ramp "D" Plan, See Sheet No. 90, 91
5. For Ramp "D" Profile, See Sheet No. 98
6. For Agler Road Plan & Profile See Sheet No. 234, 236
7. For Ramp "A" Cross Sections See Sheet No. 106, 109
8. For Ramp "D" Cross Sections See Sheet No. 113, 119
9. For USR 62 S.B. Cross Sections See Sheet No. 184, 211
10. For Interchange Geometrics See Sheet No. 82, 84

Bridge No. FRA-62-2131
USR 62 S.B. Under Ramp "D"
For Data See Sheet 91

REF	STATION TO STATION	SIDE	603 Deep 6"		606 Guard Rail Type 6	606 Anchor Assy	660 Sodding	660 Special Cleaning Pavt Vault		
			LF		LF	Ea.	SY	Ea.		
1-UD	A-1493-00 TO A-1507-00	LT	1200							
1-D	A-1494-00 TO A-1495-25	LT					125			
1-GR	1497-00	LT			25	2				
1-R	A-1497-00	Rt						1		
TOTALS RURAL			1200		25	2	125	1		

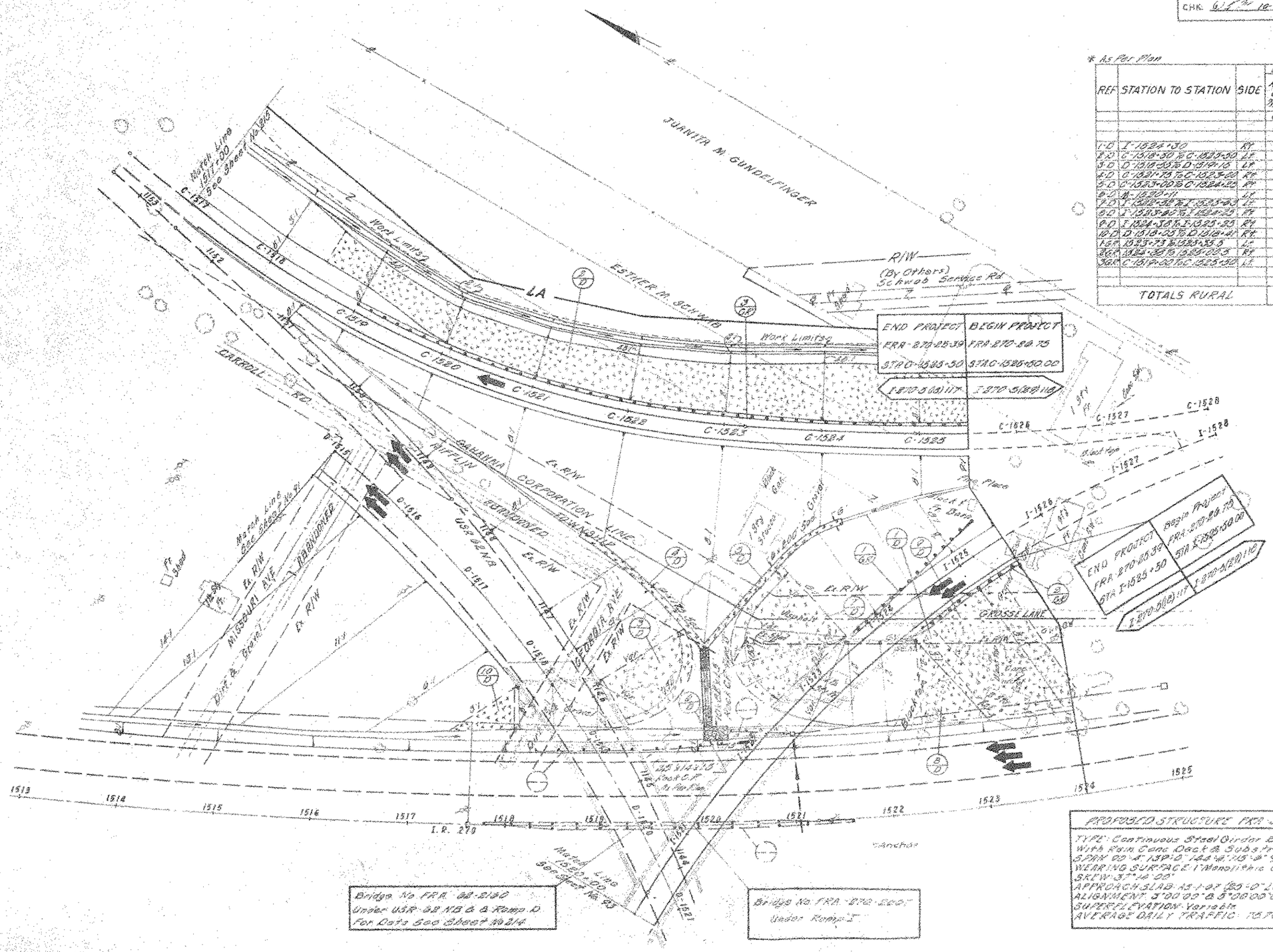
RAMP A STA 1494 TO STA 1510

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

89

CALC: R.D. 10-7-69
CHK: W.F. 10-9-69

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83



* As Per Plan

REF	STATION TO STATION	SIDE	601 Rock C.P. Type "B"	601 Rock C.P. As Per Plan	606 Guard Rail Type 5	606 Anchor Assy.	606 Anchor Assy.	606 Bridge Term. Assy.	660 Sodding	660 Spec. Germ. & Slope Pnt.	830 Excelsior Matting
			CY	CY	LF	Ea	Ea	Ea	SY	SY	SY
1-D	I-1524+30	Rt								121	
2-D	C-1518+50 To C-1525+50	Lt									4800
3-D	D-1518+55 To D-1519+15	Lt									597
4-D	C-1521+75 To C-1523+00	Rt							117		
5-D	C-1523+00 To C-1524+25	Rt							134		
6-D	M-1520+11	Lt	61	26							
7-D	I-1522+52 To I-1523+63	Lt									118
8-D	I-1523+60 To I-1524+25	Rt									472
9-D	I-1524+38 To I-1525+25	Rt									1319
10-D	D-1518+05 To D-1518+41	Rt									171
1-GR	1523+73 To 1525+35.5	Lt			1625		1	1			
2-GR	1524+38 To 1525+00.5	Rt			1190			1			
3-GR	C-1519+00 To C-1525+50	Lt			6500	1					
TOTALS RURAL			61	26	9315	1	1	2	251	121	6677

LEGEND

Item 830 Excelsior Matting

Existing Concrete Walk Removed Under Item 203 Excavation

Notes

1. For Ramp "C" Profile See Sheet 97
2. For Ramp "I" Profile See Sheet 105
3. For USR 62 NB Plan & Profile See Sheet 214 216
4. For I.R. 270 Plan & Profile See Sheet 62, 63
5. For Ramp "C" Pavement Details See Sheet 141
6. For USR 62 NB & Ramp "D" Pavement Details See Sheet 159
7. For Ramp "C" Cross Sections See Sheet 110, 112
8. For Ramp "I" Cross Sections See Sheet 138, 140
9. For I.R. 270 Cross Sections See Sheet 72, 81
10. For USR 62 NB Cross Sections See Sheet 224, 226
11. For Interchange Geometrics See Sheet No. 82, 84

CALCULATIONS

(2/D) Area (By Plan) = 33,750 SF
33,750 x 1.12 ÷ 9 = 4200 SY

(3/D) [(132÷2)(100+55)÷2] x 1.05 ÷ 9 = 597 SY

(7/D) [(183÷2)(110)] x 1.05 ÷ 9 = 1174.2 SY

(8/D) Area (By Plan) = 3900 SF
[3900 x 1.09 ÷ 9] = 472 SY

(9/D) Area (By Plan) = 11,300 SF
[11,300 x 1.05 ÷ 9] = 1319 SY

(10/D) Area (By Plan) = 1425 SF
[1425 x 1.08 ÷ 9] = 171.05 SY

PROPOSED STRUCTURE FRA-270-2007

TYPE: Continuous Steel Girder Bridge With Rein. Conc. Deck & Substructures
SPAN: 90'-4", 139'-0", 144'-4", 115'-8" % bgs
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 37°14'00"
APPROACH SLAB: AS-1-97 (25'-0" Long)
ALIGNMENT: 3°00'00" & 5°00'00" Curves Rt.
SUPERELEVATION: Variable
AVERAGE DAILY TRAFFIC: 7573 (1973)

RAMP I STA 1520 TO STA 1528
RAMP C STA 1517 TO STA 1528

CALC: RG 10-4-94
CHK: [illegible] 10-4-94

FED. NO. DIVISION	STATE	PROJECT		
2	OHIO			

90

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

LEGEND

[illegible] Item 830 Excelsior Matting

CALCULATIONS

(5/D) Area (By Plan) = 2120 SF
[2120 x 1.08] = 9-253 A 25 Y

(6/D) Area (By Plan) = 1850 SF
[1850 x 1.05] = 9-215 B 5 Y

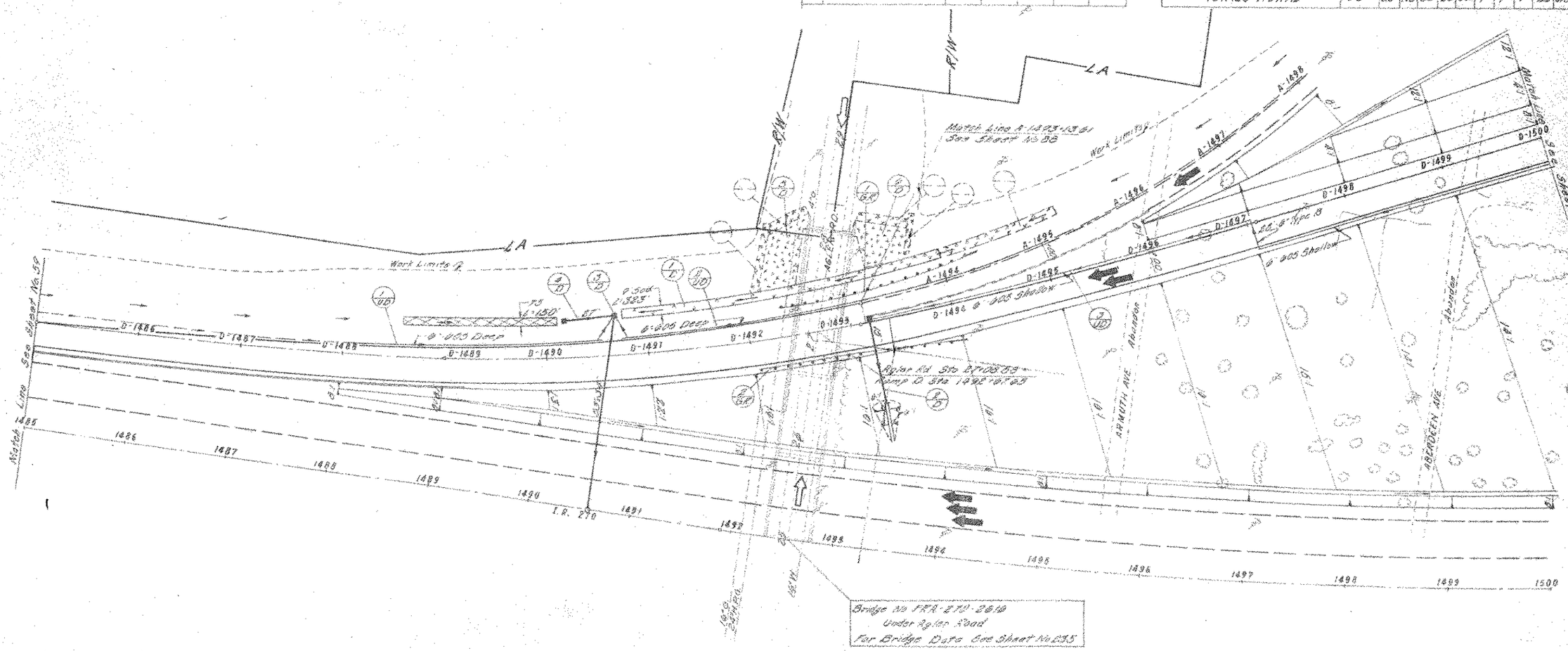
NOTES

1. For Ramp 'D' Profile, See Sheet No. 98
2. For Ramp 'A' Profile, See Sheet No. 96
3. For Ramp 'A' Plan, See Sheet No 88
4. For I.R. 270 Plan & Profile, See Sheet No. 50-63
5. For Ramp 'A' & 'D' Pavement Details, See Sheet No. 183
6. For Ramp 'D' & I.R. 270 Pavement Details, See Sheet No. 182
7. For Agler Rd. Plan & Profile See Sheet No. 234-239
8. For Agler Rd. X-Sections See Sheet No. 835-841
9. For Ramp 'A' X-Sections See Sheet No. 106-109
10. For Ramp 'D' X-Sections See Sheet No. 113-116
11. For I.R. 270 X-Sections See Sheet No. 64-81
12. For Interchange Geometrics See Sheet No. 82-84

REF	STATION TO STATION	SIDE	608 Guard Rail Type 3 LF	608 Approach End Assy Ea	608 Anchor Assy Ea	830 Excelsior Matting SY
10A	D-1492+35 to D-1492+35	LT	800	1	1	
10B	D-1492+07 to D-1492+07	RT	200	1	1	
3-D	D-1492+18.80 to D-1492+18.80					235
6-D	D-1492+20.80 to D-1492+20.80					218
	TOTALS RURAL		400	2	2	471

* As Per Plan
† Class NF-II 706.04

REF	STATION TO STATION	SIDE	608 Cone Masonry	603									602		603					
				18" CMP LF	24" CMP LF	30" CMP LF	36" CMP LF	42" CMP LF	48" CMP Ea	54" CMP Ea	60" CMP Ea	Conc Slope Pav SY	Conc Ditch Pav SY	Conc Flume SY	Conc Apron SY	Conc Headwall CY	Conc Endwall CY	Conc Wingwall CY	Conc Cradle CY
1-UD	D-1488+00 to D-1490+61	LT				10						278						1	C	78
2-UD	D-1490+61 to A-1493+00	LT				10						330						1	C	93
3-UD	D-1493+68.80 to 500+00	LT				10	20						278					8		
1-D	D-1490+71.80 to 1494+00	LT													325					
2-D	D-1493+13.5	SF FT	03					68		(1)										140
3-D	D-1493+72	SF FT			198				1											113
4-D	D-1494+20.80 to 1494+70	LT		50							1					180				73
	TOTALS RURAL		03	50	198	30	20	68	1	1	1	608	278	325	325	180		1	C	324



RAMP D STA 1486 TO STA 1500

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

71

NOTES

1. For USR 62 NB Cross Sections See Sheet No. 217-230
2. For USR 62 SB Cross Sections See Sheet No. 191-211
3. For I.R. 270 Cross Sections See Sheet No. 84-87
4. For Ramp D Cross Sections See Sheet No. 113-119
5. For Ramp 'D' Profile, See Sheet No. 98
6. For I.R. 270 Plan & Profile, See Sheet No. 58-63
7. For USR 62 N.B. Plan & Profile, See Sheet No. 212-216
8. For USR 62 S.B. Plan & Profile, See Sheet No. 191-211
9. For Interchange Geometrics See Sheet No. 82-84

PROPOSED STRUCTURE FRA 62 21.81

TYPE: Continuous Reinforced Conc. Slab
With Reinforced Conc. Substructure
SPANS: 30'-0", 50'-10", 95'-6", 34'-5"
ROADWAY: 42'-0" F/F Parapets
LOADING: HS 20-44
WEARING SURFACE: 1" Monolithic Conc.
SKEW: 12°-42'-38" R.F. (With Ramp)
APPROACH SLAB: RS-1-67 (25'-0" Long)
ALIGNMENT: Tan. Rad. Spiral
SUPERELEVATION: Variable
AVERAGE DAILY TRAFFIC: 7921 (1973)

* 709.08 Class V
** As Per Plan

REF	STATION TO STATION	SIDE	603 3.5" Type 1B * LF	604 No 6A C.B. Ea.	605 Shallow C.B. LF	606 Guard Rail Type 5 LF	607 Fence Ea.	608 Gate Ea.	609 Slope Paving SY	610 Slope Paving SY	611 Sodding SY	612 Mulching SY
1UD	D-1500-00 TO D-1505-70	RT			370							94
2UD	D-1505-65 TO D-1515-00	RT			935							
1-D	D-1503+91.75 TO D-1505+92	LT										156
2-D	D-1503+02.75 TO D-1503+30	LT										119
3-D	D-1503+80.80 TO D-1505+91	RT										227
4-D	SB 1150+10.75 TO 1150+45	LT										87
5-D	D-1503+35	LT							71			
6-D	D-1502+00	LT & RT	562	1								118
7-D	SB 1150+00	RT							330			
8-D	SB 1147+37.75 TO 1150+00	RT							135			
9-D	SB 1150+10	RT										552
10-D	D-1503+14	RT						1				
11-D	D-1503+44.80 TO 1504+83	LT				182.3	1	1				
12-D	D-1503+43.60 TO 1504+83	RT				182.3	1	1				
	TOTALS FOR ALL		562	1	1305	329.0	2	2	159	378	1	411

CALCULATIONS

(1) [(103-21)(94+37)-2]×103+0-193.6 SY
(2) [(112-81)(86-42)-2]×103+0-410.4 SY
(3) [(76-81)(82-40)-2]×108+0-228.6 SY
(4) [(39-01)(54)]×108+0-332.5 SY
(5) [(154-61)(83-40)-2]×104+0-552.5 SY

RAMP D STA 1500 TO STA 1516

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

92

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

F.A.S. RG 10-6/62
CHK. DRT 10-8-62

NOTES
1. For I.R 270 Plan & Profile See Sheet No. 63
2. For U.S.R. 62 Plan & Profile See Sheet No. 212-214
3. For Ramp I Plan See Sheet No. 89, 93
4. For Ramp E Profile See Sheet No. 103
5. For U.S.R. 62 S.B. Pavement Details See Sheet No. 159
6. For Ramp E Profile See Sheet No. 99
7. For Ramp E Cross Sections See Sheet No. 120-121
8. For U.S.R. 62 N.B. Cross Sections See Sheet No. 221-223
9. For I.R. 270 Cross Sections See Sheet No. 79-81
10. For Ramp I Cross Sections See Sheet No. 135-139
11. For Interchange Geometrics, See Sheet No. 82-84

CALCULATIONS

(1/K) [(33+30)-½(15')-½(20)(45)]÷9 = 32.25 SY

(9/K) [(9+10)-½(9)(18)]÷9 = 17.50 SY

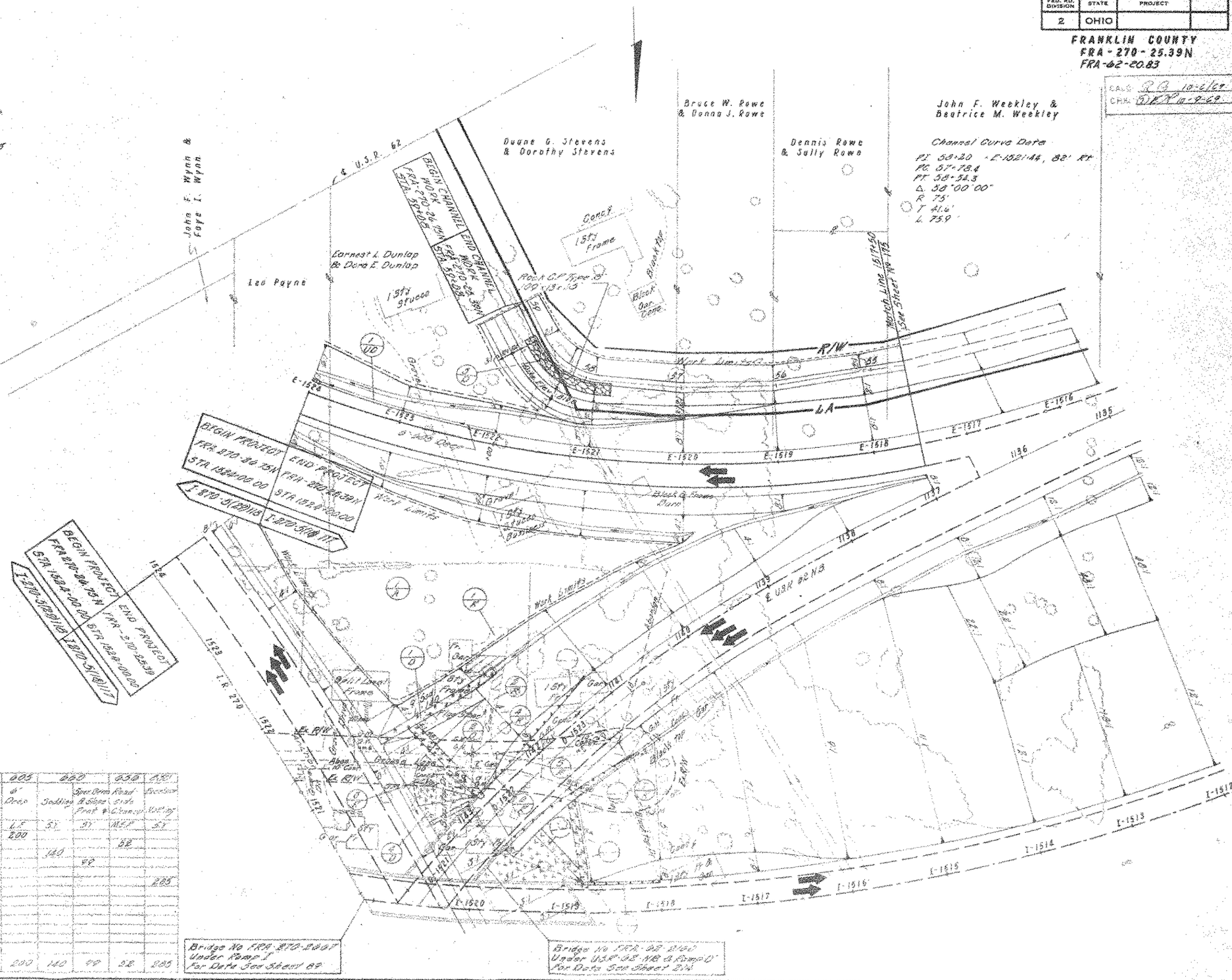
(1/A) Plan Area = 32.8 sq in
A=(20.6)(2500) = 52000 sq ft

(4/D) [(60+6)(68+58)÷2×103]÷9 = 2045.5 SY

LEGEND

▨ Existing Concrete Removed Under Item 803 Excavation

▨ Item 830 Excelsior Matting



* As Per Plan

REF	STATION TO STATION	SIDE	202 Item Removed Sft & Under Sft	202 Ex. Mat'l Removed & Disposed	202 CB Item Removed & Abandoned	601 Rock C.Y. Type "B"	603 6" Conc.	660 Seeding & Mulching	660 Type Item Prod. #	659 Type Item Prod. # Sft. Cleaning	659 Sft. Cleaning	659 Excelsior Matting
			L.F.	S.Y.	Ea.	C.Y.	L.F.	S.Y.	S.Y.	M.S.F.	S.Y.	S.Y.
UD	℄ I.R. 270 1524+00	Rt.					200					
UA	℄ I.R. 270 1524+00	Rt.									82	
LD	N.B. 1101-25 to N.B. 1143+05	Rt.						140				
RD	D-1521+60	Rt.							98			
SD	℄ U.S.R. 62 N.B. E-1521.91	Rt.										
AD	D-1521+20 to D-1521+60	Rt.				70						285
UR	N.B. 1141+60	Rt.		83								
AR	N.B. 1142+60	Rt.		78								
RR	N.B. 1140+43	Rt.	25									
RA	D-1521+55	Rt.			1							
UR	D-1523+47	Rt.			1							
RE	D-1524+05	Rt.			1							
TR	D-1525+20	Rt.			1							
TOTALS RURAL			25	161	4	70	200	140	98	28	285	

RAMP E - STR. 1517+50 TO 1524+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

93

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC. W.C. 10-4-62
CHK. D.E.D.C. 10-9-62

Bridge No. FRA-270-2867
Under Ramp I
For Data See Sheet # 89

NOTES

1. For Ramp I Profile See Sheet No. 103
2. For Ramp F Profile See Sheet No. 100
3. For I.R. 270 Plan & Profile See No. 68
4. For USR 62 SB Plan & Profile See Sheet No. 173-178
5. For Ramp F Pavement Details Sheet No. 157-165
6. For Ramp F Cross Section See Sheet No. 182-184
7. For Ramp I Cross Section See Sheet No. 153-156
8. For USR 62 SB Cross Section See Sheet No. 192-196
9. For USR 62 NB Cross Section See Sheet No. 221-222
10. For I.R. 270 Cross Section See Sheet No. 77-79
11. For Ramp E Cross Section See Sheet No. 180-181
12. For Ramp E Plan & Profile See Sheet No. 92
13. For USR-62 NB Plan & Profile See Sheet No. 213
14. For Interchange Geometrics See Sheet No. 82-84

CALCULATIONS

(1/D) Area (B) Plan = 2860 SY
[2860 x 100 / 9 = 31,800 SY]

(3/D) [(65-2)(67.35)/2] x 1.12 x 9 = 6065 SY

(4/D) [(183+2)(100+182)/2] x 1.08 x 9 = 8391 SY

* As Per Plan

REF	STATION TO STATION	SIDE	202 Excl Sta Remarks	603 6" Stabilized U.D.	Special Cleaning Privy Vault	606 Guard Rail Type 5	606 Bridge Term Assy	606 Anchor Assy Type End Post	606 Anchor Assy Type End Post	610 * Spec Storm & Conc Pvmt	830 Reinforced Bituminous Surface
			Lump	SY	Ea	LF	Ea	Ea	Ea	SY	SY
1UD	F 1507+20.27 to 1517+00	Rt		1000							
2UD	F 1513+65.16 to F 1528+51	Rt		980							
1R	F 1515+98	Rt			1						
2R	F 1519+12	Rt	Lump								
3R	F 1513+50	Lt	Lump								
1GR	F 1515+76.67 to 1519+00	Rt									341
2GR	F 1514+05	Rt								90	
3GR	F 1514+00 to 1515+55.11 to 1516+40	Rt									307
4GR	F 1513+93.67 to F 1519+40	Lt									239
1GR	F 1508+00 to F 1515+00	Lt				250	1	1			
2GR	F 1515+00 to F 1516+00 to F 1519+00	Rt				75	1	1			
4GR	1500+00 to 1503+25	Rt				175			1		
5GR	1500+00 to 1509+65	Lt				175			1		
TOTALS			Lump	1886	1	675	2	2	2	90	1387

Bridge No. FRA-270-2843
Under USR 62 SB
For Data See Sheet 176

Bridge No. FRA-62-21.15
Ramp F Over Rocky Channel
For Data See Sheet 103

RAMP F STA 1310 TO STA 1524
RAMP I STA 1507 TO STA 1520

PROJ. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC. R.C. 12-6-66
CHK. D.F.H. 12-7-66

Bridge No FRA-270-25 43
Under USR 62 S.B.
For Data See Sheet 176

NOTES

1. For Ramp "H" Profile See Sheet No. 102
2. For Ramp "G" Profile See Sheet No. 101
3. For I.R. 270 Plan & Profile See Sheet No. 61
4. For USR 62 S.B. Plan & Profile See Sheet No. 176
5. For Ramp "H" Pavement Details See Sheet No. 152-164
6. For Mifflin Blvd. & Channel Relocation See Sheet No. 242-250
7. For Ramp "G" Cross Sections See Sheet No. 123-132
8. For Ramp "H" Cross Sections See Sheet No. 130-132
9. For I.R. 270 Cross Sections See Sheet No. 73-77
10. For USR 62 S.B. Cross Sections See Sheet No. 172-176
11. For Interchange Geometrics See Sheet No. 62-64

CALCULATIONS

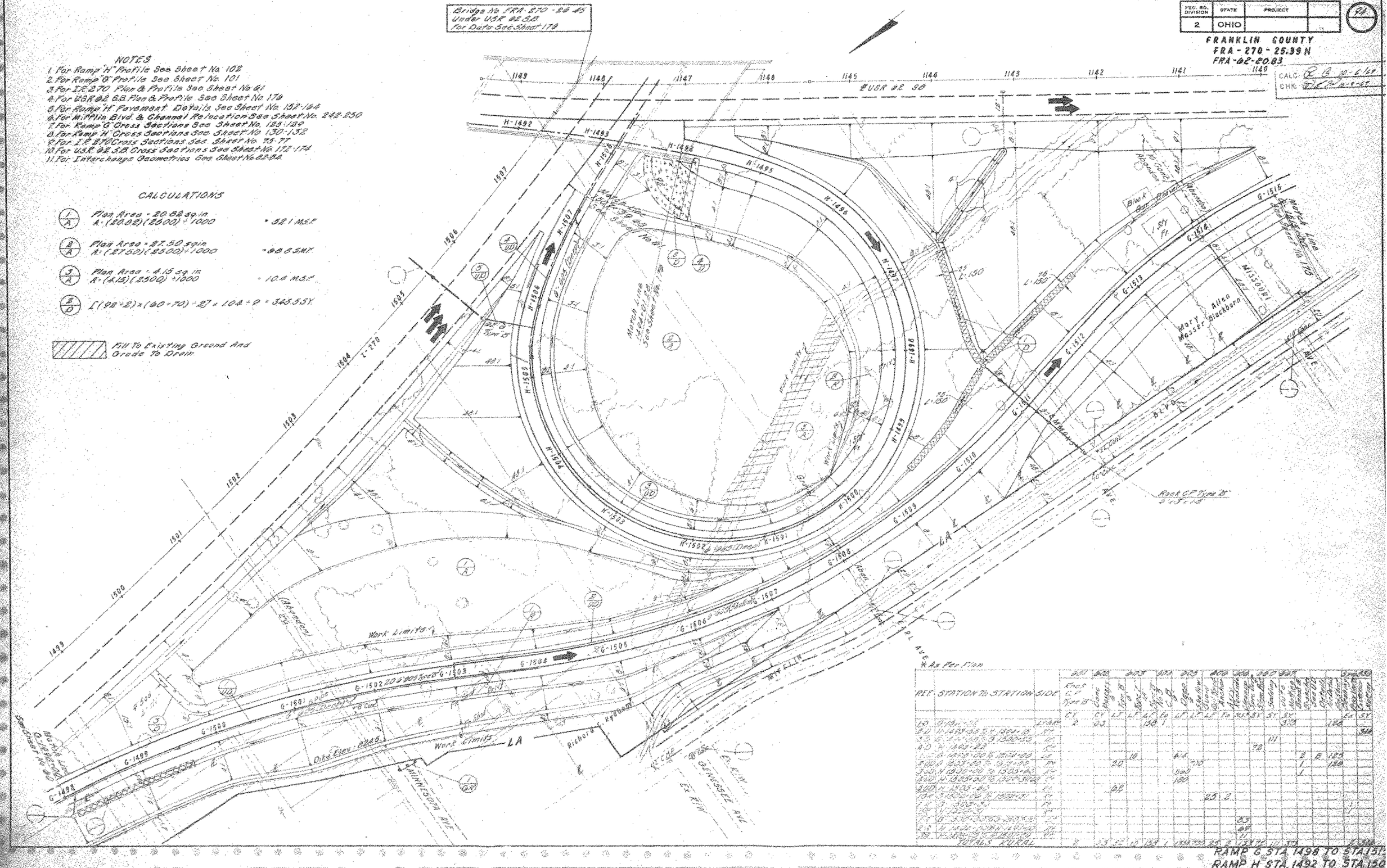
(1/A) Plan Area = 20.68 sq in
A = (20.82)(2500) ÷ 1000 = 52.1 M.S.F.

(2/A) Plan Area = 27.50 sq in
A = (27.50)(2500) ÷ 1000 = 68.8 M.S.F.

(3/A) Plan Area = 4.15 sq in
A = (4.15)(2500) ÷ 1000 = 10.4 M.S.F.

(2/D) [(198+2)×(60-70)-27] × 10A = 9 = 345.55Y

Fill To Existing Ground And Grade To Drain


USR 62 SB
Work Limits
LA
Rock Cr Trib B
Richards Ryebarn
Mary Allen Blackburn
Missouri
Black Bear
Work Limits
Dike Elev 824.5
Guinevere Ave
Ex R/W
Ex C/L
Work Limits
Work Limits
Work Limits

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

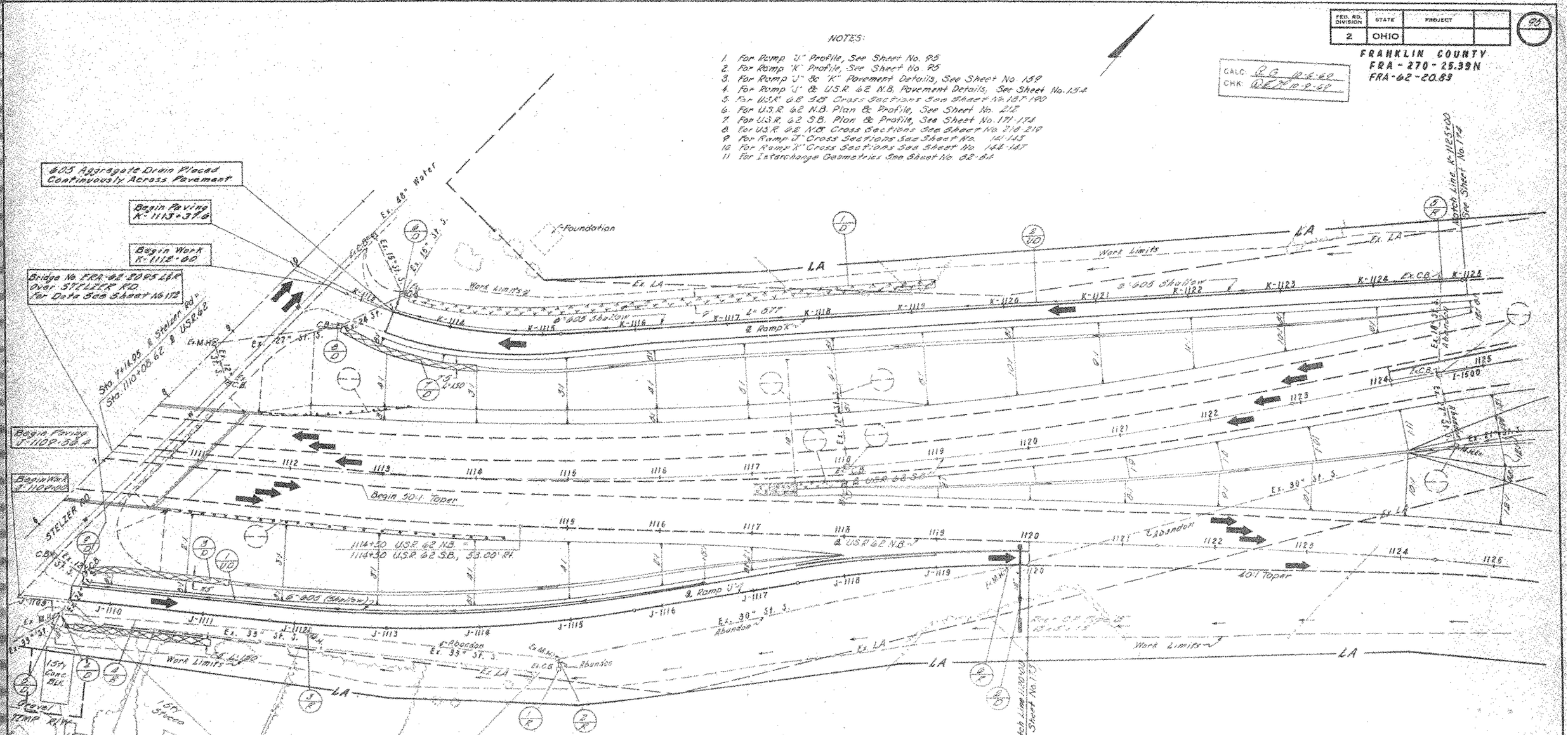
95

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC. RC 12-8-62
CHK. WEK 12-9-62

NOTES:

1. For Ramp "J" Profile, See Sheet No. 95
2. For Ramp "K" Profile, See Sheet No. 95
3. For Ramp "J" & "K" Pavement Details, See Sheet No. 159
4. For Ramp "J" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 154
5. For U.S.R. 62 SB Cross Sections See Sheet No. 187-190
6. For U.S.R. 62 N.B. Plan & Profile, See Sheet No. 212
7. For U.S.R. 62 S.B. Plan & Profile, See Sheet No. 171-174
8. For U.S.R. 62 N.B. Cross Sections See Sheet No. 213-216
9. For Ramp "J" Cross Sections See Sheet No. 141-145
10. For Ramp "K" Cross Sections See Sheet No. 146-151
11. For Interchange Geometrics See Sheet No. 62-64



DESIGN DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

GRID OPEN		VOL PAVE	
CUT	FILL	CUT	FILL

Profile Grade: 822.31 823.85 824.30 824.91 825.48 826.02 826.51 826.97 827.38 827.74 828.10 828.40 828.66 828.88 829.06 829.21 829.31 829.38 829.40 829.39 829.34 829.25 829.03 828.81 828.59 828.37 828.15 827.93 827.71 827.49 827.28 827.17 827.08 826.98 826.89 826.80 826.72 826.63 826.56 826.46 826.31

EXCAV 10,317 CY
EMB 922 CY
Seeding 22,331 SY

For Grades
Grade Sec
Sheet No 180

830
825
820

+2.68 %

L = 300 Desir

500' V.C.
P.V.I. A-1498+00 Elev. 830.35

N43°-00' 8 Ln
Point D 1498+00 30.00
R = 84.00

-0.44 %

300' V.C.
P.V.I. A-1506+00 Elev. 826.83

-0.28 %

L = 600 Desir

1507+00 B Ln
S 88°-38' 30" E
R = 850.00

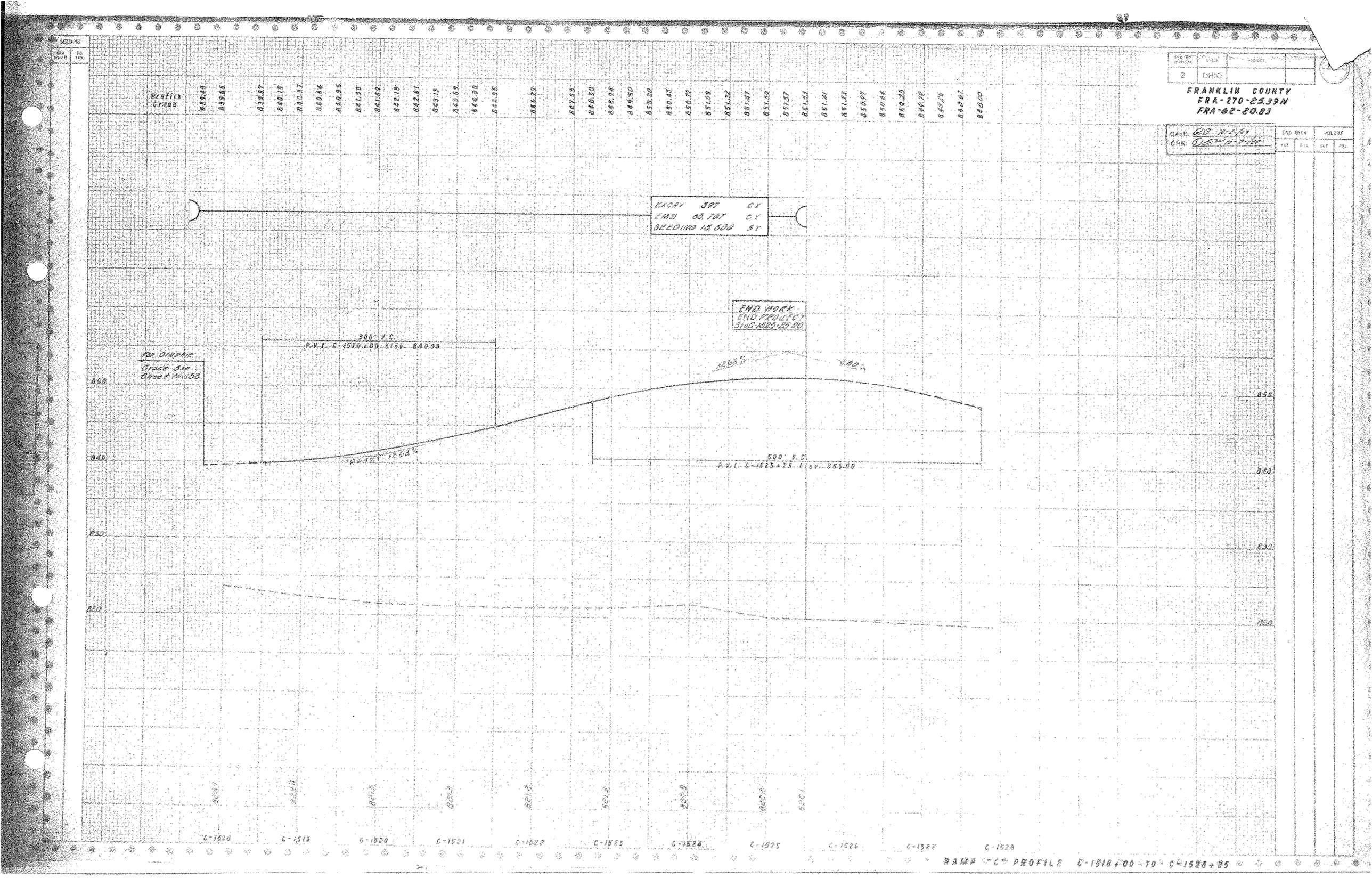
For Grades
Grade Sec
Sheet No 183

830
825
820

826.0 826.2 826.5 826.5 826.8 827.0 827.1 827.2 827.3 827.4 827.5 827.6 827.7

A-1495 A-1496 A-1497 A-1498 A-1499 A-1500 A-1501 A-1502 A-1503 A-1504 A-1505 A-1506 A-1507

RAMP "A" PROFILE A-1495+00 TO A-1507+00



2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
Profile Grade
EXCAV 397 C.Y.
EMB 85,767 C.Y.
SEEDING 13,600 S.Y.
END WORK
END PROJECT
Sta 6-1525+25.00
300' V.C.
P.V.I. C-1520+00 Elev. 840.93
500' V.C.
P.V.I. C-1525+25 Elev. 855.00
850
840
830
820
C-1518
C-1519
C-1520
C-1521
C-1522
C-1523
C-1524
C-1525
C-1526
C-1527
C-1528
RAMP "C" PROFILE C-1518+00 TO C-1528+25

DESIGNED | DRAWN | CHECKED | QUANTITIES | CHECKED

DES'D: W.E. 10/6/69
CHK'D: D.E.T. 10/9/69

SHEET NO.	STATE	FED. PROJECT	ADD'L SHEETS
2	OHIO		

93

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

END AREA		VOLUME	
CUT	FILL	CUT	FILL

EXCAV. 53,941 CY
EMB. 163,731 CY
SEEDING 71,213 SY

For Graphic Grade See Sheet No. 129

400' VC
P.V.I. D-1492+00 Elev. 835.37

950' VC
P.V.I. D-1503+00 Elev. 853.85

350' VC
P.V.I. D-1511+75 Elev. 839.00

For Graphic Grade See Sheet No. 127

D-1490+20.37 Lt
No 5 CB
E Grate = 818.83
E 21" = 809.00

D-1490+19.40 Lt
No 5A CB
E Grate = 818.83
E 27" = 808.32
E 533-3A = 807.70
E 6"(2) = 808.70

BRIDGE 10
FRA 270-2816
NOLER RD
For Bridge Data See Sheet No 255

D-1493+17.34 Lt
No 2 CB As Per Plan
E Grate = 818.37
E 15" = 814.87
E 21" = 809.57

BRIDGE NO
FRA-62 Elev
RAMP D
For Bridge Data See Sheet No 91

D-1502+10.10 Lt
No 3-A CB (Comb Dia)
E Grate = 821.43
E 21" = 810.35
E 33" = 809.82

6"-805 (Shallow)
6"-805 (Deep)
6"-805 (Shallow)
6"-805 (Shallow)
6"-805 (Shallow)
6"-805 (Deep)
6"-805 (Shallow)
6"-805 (Shallow)
6"-805 (Shallow)

-0.49% -2.96%
-2.20% -0.56%

Bridge Limits = 146.37

D-1490+00 Sta 10+00 Ahead
D-1490+00 Sta 10+00 Back
D-1491+00 Sta 11+00 Ahead
D-1491+00 Sta 11+00 Back
D-1492+00 Sta 12+00 Ahead
D-1492+00 Sta 12+00 Back
D-1493+00 Sta 13+00 Ahead
D-1493+00 Sta 13+00 Back
D-1494+00 Sta 14+00 Ahead
D-1494+00 Sta 14+00 Back
D-1495+00 Sta 15+00 Ahead
D-1495+00 Sta 15+00 Back
D-1496+00 Sta 16+00 Ahead
D-1496+00 Sta 16+00 Back
D-1497+00 Sta 17+00 Ahead
D-1497+00 Sta 17+00 Back
D-1498+00 Sta 18+00 Ahead
D-1498+00 Sta 18+00 Back
D-1499+00 Sta 19+00 Ahead
D-1499+00 Sta 19+00 Back
D-1500+00 Sta 20+00 Ahead
D-1500+00 Sta 20+00 Back
D-1501+00 Sta 21+00 Ahead
D-1501+00 Sta 21+00 Back
D-1502+00 Sta 22+00 Ahead
D-1502+00 Sta 22+00 Back
D-1503+00 Sta 23+00 Ahead
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D-1511+00 Sta 31+00 Ahead
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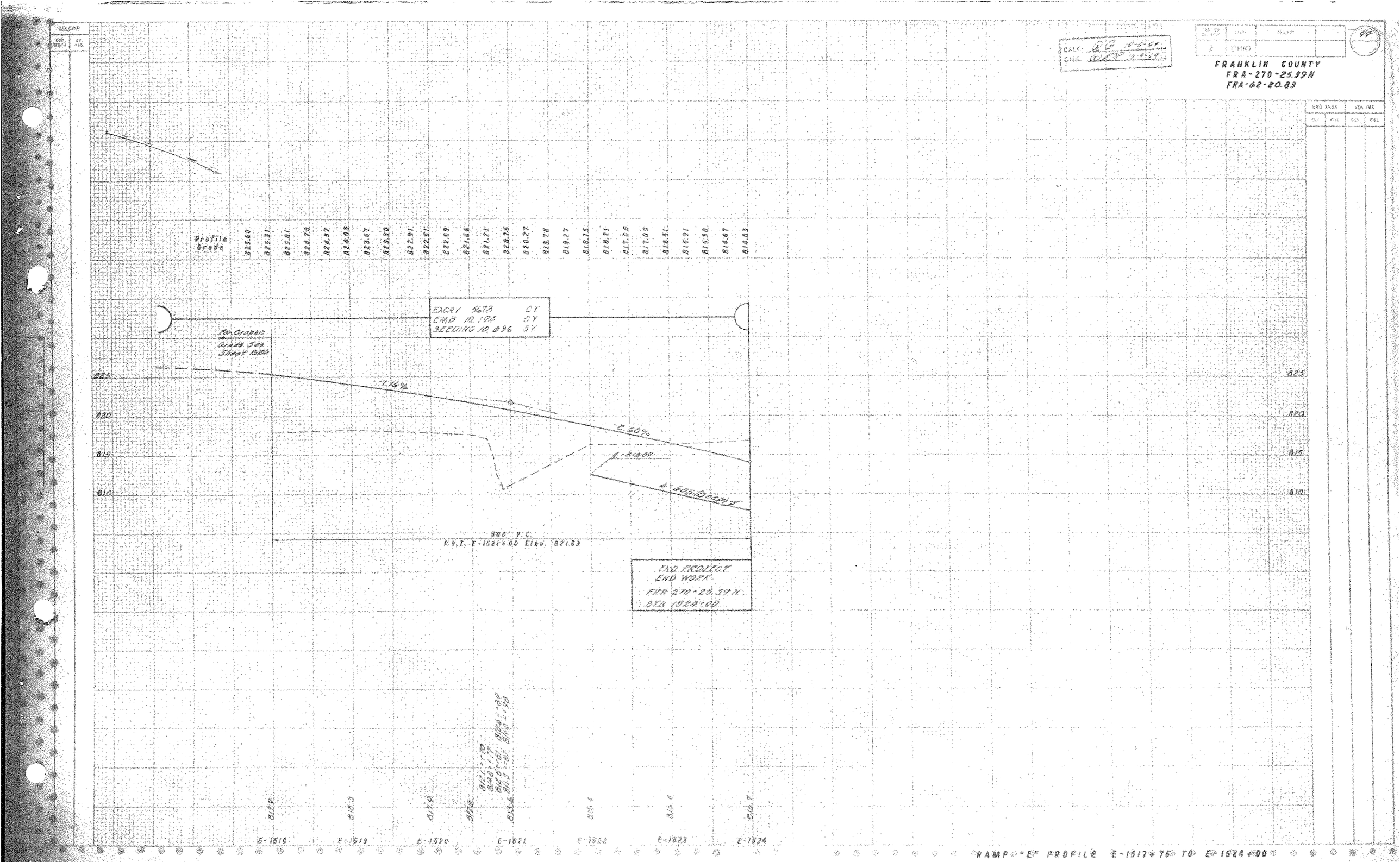
D-1512+00 Sta 32+00 Ahead
D-1512+00 Sta 32+00 Back
D-1513+00 Sta 33+00 Ahead
D-1513+00 Sta 33+00 Back
D-1514+00 Sta 34+00 Ahead
D-1514+00 Sta 34+00 Back
D-1515+00 Sta 35+00 Ahead
D-1515+00 Sta 35+00 Back

D-1515+00, 50 Rt
N 19°-45'-11" E 22.23' to ℄
D-1515+75

RAMP D PROFILE D-1490 TO D-1515



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
Profile Grade
825.60
825.31
825.01
824.70
824.37
824.03
823.67
823.30
822.91
822.51
822.09
821.66
821.21
820.75
820.27
819.78
819.27
818.75
818.21
817.66
817.09
816.51
815.91
815.30
814.67
814.03
EXCAV 5678 CY
EMB 10,194 CY
SEEDING 10,696 SY
For Graphic Grade See Sheet No.
-1.16%
-2.60%
825
820
815
810
600' V.C.
P.V.I. E-1521+00 Elev. 821.83
END PROJECT
END WORK
FRA 270-25.39N
STA 1524+00
E-1518
E-1519
E-1520
E-1521
E-1522
E-1523
E-1524
RAMP "E" PROFILE E-1517+75 TO E-1524+00

SECTION	TYPE	COUNTY	SHEET NO.
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

DRAWN [illegible]
CHK [illegible]

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL

Profile Grade

813.95 813.86 813.82 813.84 813.92 814.06 814.25 814.49 814.80 815.18 815.62 816.14 816.67 817.16 817.80 818.18 820.68 821.82 823.16 823.42 824.45 825.06 825.68 826.22 826.78 827.28 827.77 828.24 828.69 829.12 829.52 830.23 831.05 831.81 832.52 850.69

EXCAV 24,131 CY
EMB 20,773 CY
SEEDING 35,272 SY

820

350' V.C.
P.V.C. F-1515+75 Elev. 813.11

Cir Graphite
Grade Sta 0+00
Grade 813.00

-2.00 %

E 1003.00 N 1505.00
E 1000.00

-0.38 %

R = 805 (Shallow)

+1.56 %

R = 805 (Shallow)

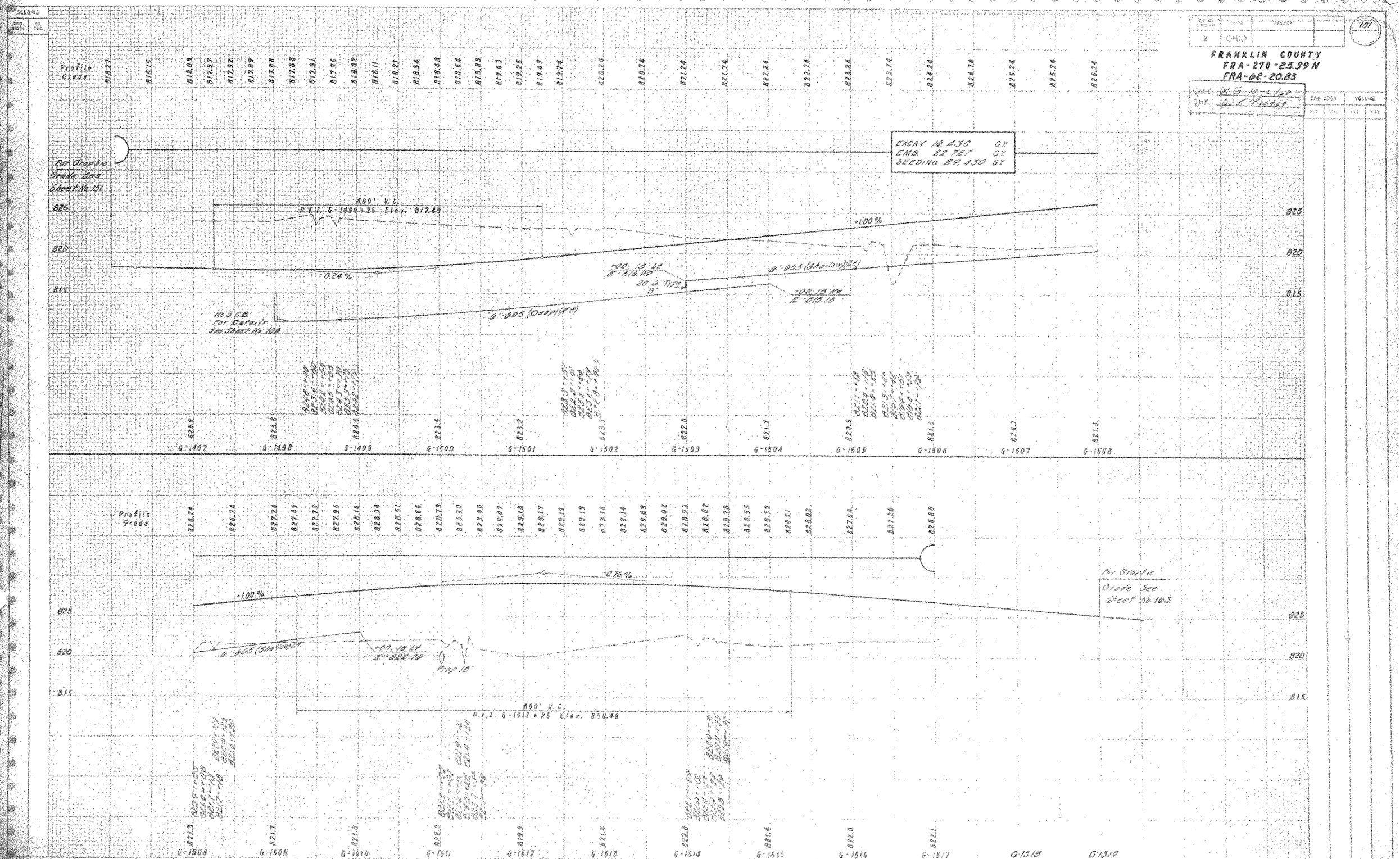
For Profile Grade
See Sheet No 382

E 1004.00
N 1522.51 Elev.

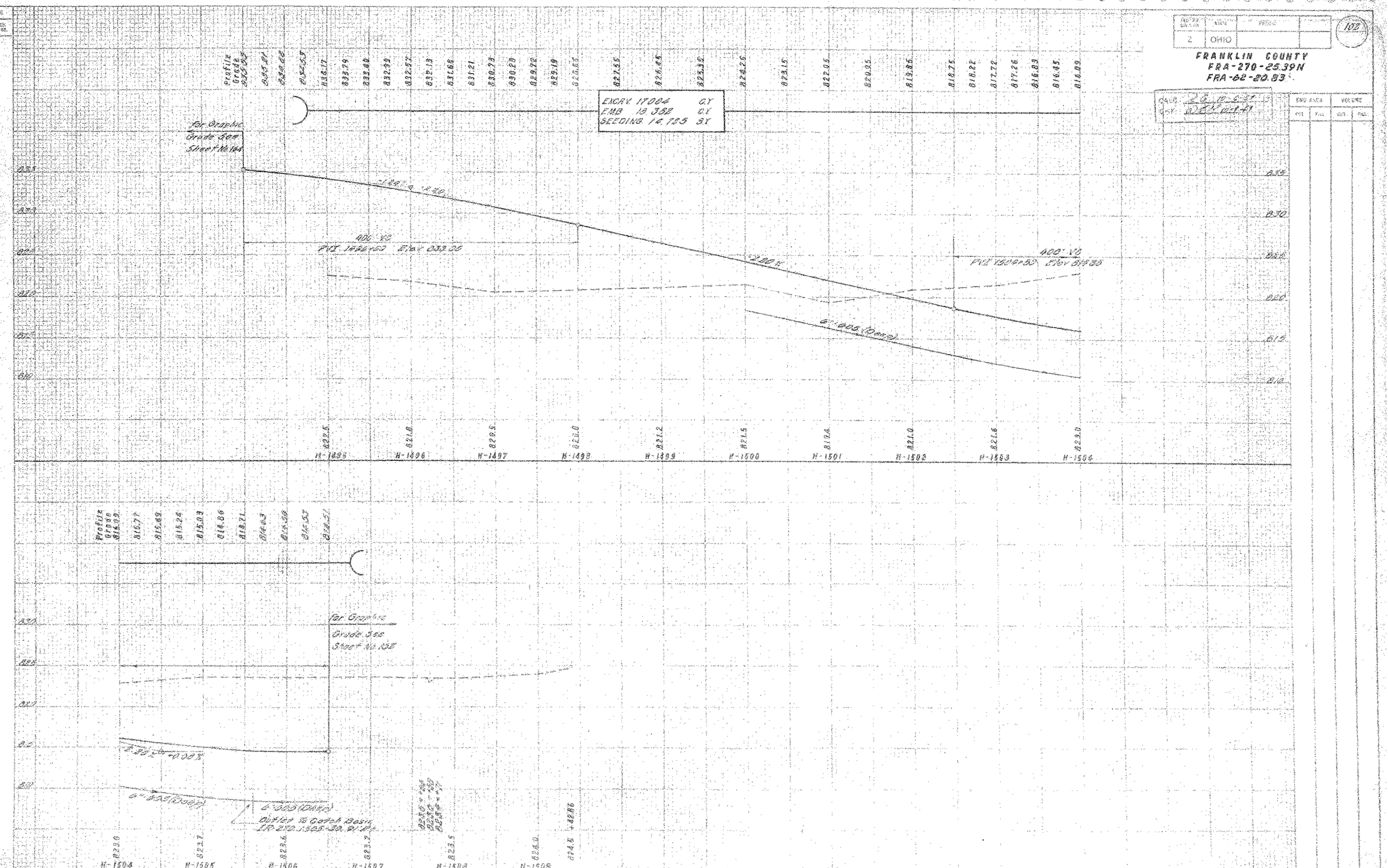
500' VC
P.V.C. F-1521+00, Elev. 831.78

830
820
810

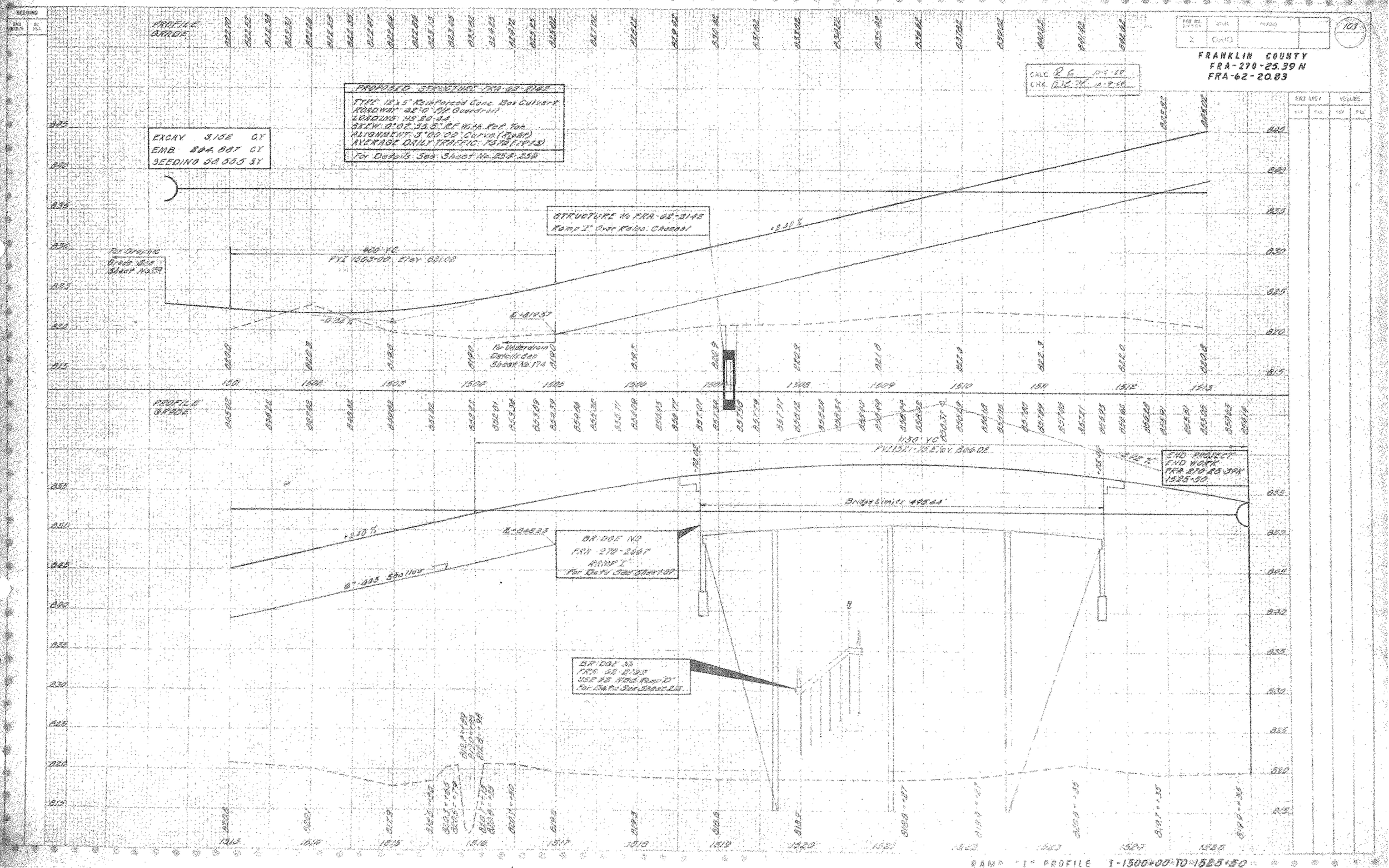
F-1518 F-1519 F-1520 F-1521



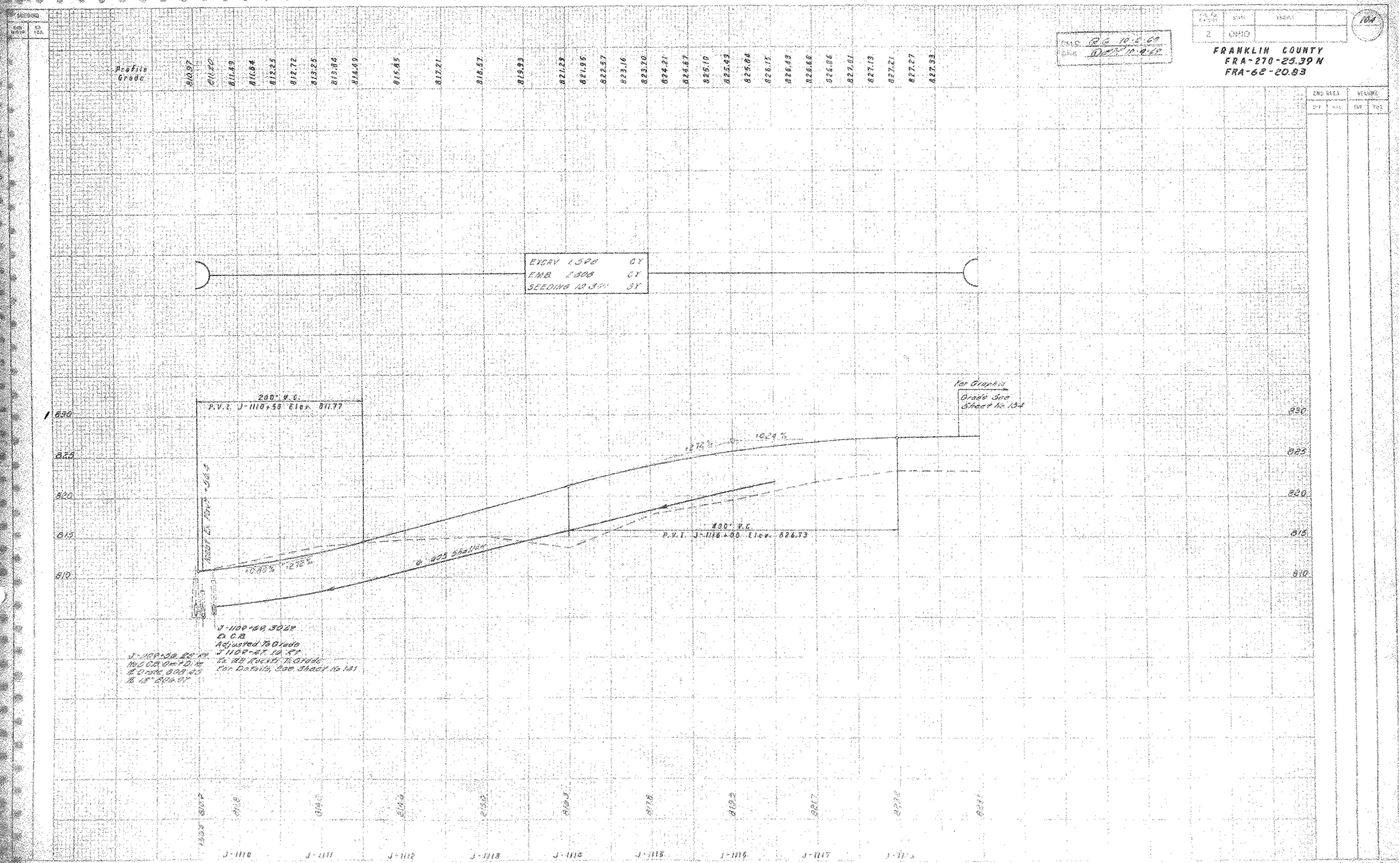
101
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
EXCAV. 16,430 C.Y.
EMB. 22,727 C.Y.
SEEDING 29,430 S.Y.
Profile Grade
For Graphic Grade See Sheet No. 151
400' V.C.
P.V.I. G-1499+25 Elev. 817.49
+1.00%
-0.24%
No. 5 C.B. For Details See Sheet No. 104
G-1497
G-1498
G-1499
G-1500
G-1501
G-1502
G-1503
G-1504
G-1505
G-1506
G-1507
G-1508
-0.76%
+1.00%
For Graphic Grade See Sheet No. 165
Prop. 18
600' V.C.
P.V.I. G-1512+25 Elev. 830.49
G-1508
G-1509
G-1510
G-1511
G-1512
G-1513
G-1514
G-1515
G-1516
G-1517
G-1518
G-1519
RAMP "G" PROFILE G-1496+00 TO G-1517+00



2
OHIO
102
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
EXCAV. 17004 C.Y.
EMB 18,382 C.Y.
SEEDING 14,725 S.Y.
For Graphic Grade See Sheet No. 164
400' VC
PVI 1496+60 Elev 833.25
PVI 1504+80 Elev 818.80
6" 005 (Deep)
Profile Grade
H-1495
H-1496
H-1497
H-1498
H-1499
H-1500
H-1501
H-1502
H-1503
H-1504
For Graphic Grade See Sheet No. 132
Outlet to Catch Basin
H-1505
H-1506
H-1507
H-1508
H-1509
RAMP "H" PROFILE H-1495+00 TO H-1509+42.88



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
103
PROFILE GRADE
PROPOSED STRUCTURE FRA-62-2142
TYPE: 12 x 5' Reinforced Conc. Box Culvert
ROADWAY: 42'-0" F/F Guardrail
LOADING: HS 20-44
SKEW: 0°-07'-55.5" RF With Ref. Tan.
ALIGNMENT: 3°-00'-00" Curve (Right)
AVERAGE DAILY TRAFFIC: 7570 (1973)
For Details See Sheet No. 254-256
EXCAV. 3,152 C.Y.
EMB. 864,887 C.Y.
SEEDING 50,555 S.Y.
STRUCTURE No. FRA-62-2142
Ramp "I" Over Kelso Channel
For Graphic Grade See Sheet No. 159
400' V.C.
PVI 1503+00 Elev. 821.02
For Underdrain Details See Sheet No. 174
1130' V.C.
PVI 1521+75 Elev. 806.02
END PROJECT
END WORK
FRA 270-25.39N
1525+50
Bridge Limits 495.44'
BRIDGE NO.
FRA 270-2667
RAMP "I"
For Data See Sheet 89
BRIDGE NO.
FRA 62-2142
USE 33 NBd Ramp "D"
For Data See Sheet 215
RAMP "I" PROFILE 1-1500+00 TO 1525+50



2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

RAMP "J" PROFILE J-1110+00 TO J-1118+50

CALC. D.C.B. 10-6-92
CHK. R.A.F. 10-7-92

REV. NO.	DATE	REMARKS
2	12/10	

115

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

SEEDING

EXCAV 1,775	CY
EMB 3,110	CY
SEEDING 11 POIS	SY

Profile Grade

816.06 816.18 816.34 816.52 816.73 816.97 817.27 817.57 817.87 818.17 818.47 818.77 819.07 819.37 820.21 820.48 820.65 820.85 821.09 821.20 821.35 821.49 821.61 821.72 821.81 821.89 821.95 822.00 822.03 822.05 822.05 822.04 822.01 821.97 821.91 821.86 821.75 821.65

200' V.C.
P.V.I. K-1114.00 Elev. 813.97

For Elev. See Sheet No 159

-0.16%

+1.00%

-0.68%

Ø 30" Shallow

Ø 42" Shallow

Ø 60" Shallow

U3R 62.50
See Sheet 174

R=85'-0" (Typ)

K-1113+41.22 LT
Ex. CB
Adjusted To Grade
See Sheet No. 144

K-1113+87.34 RT
Ex. CB
Adjusted To Grade
See Sheet No. 144

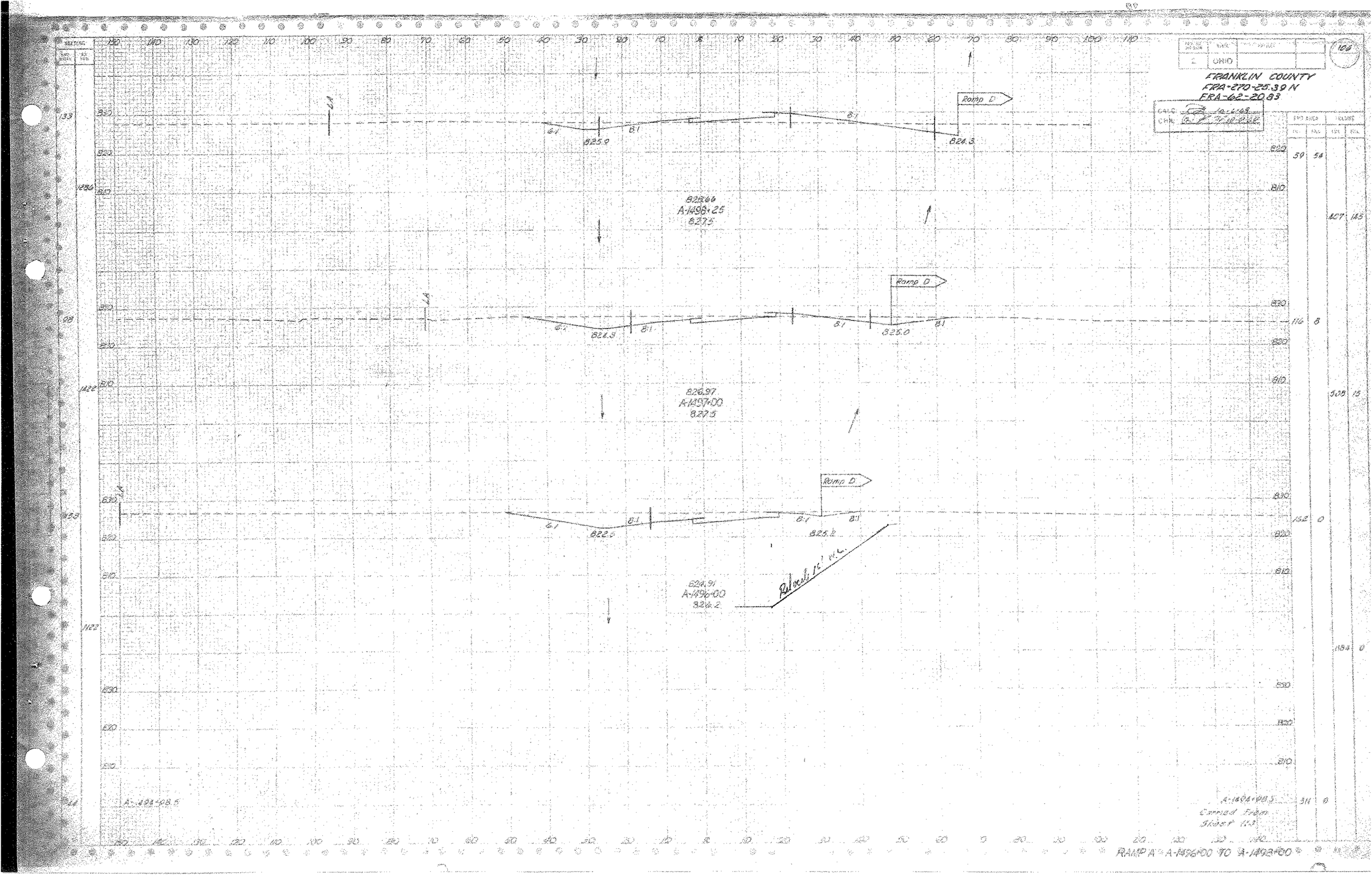
500' V.C.
P.V.I. K-1123+00 Elev. 822.97

For Grades See Sheet No. 161

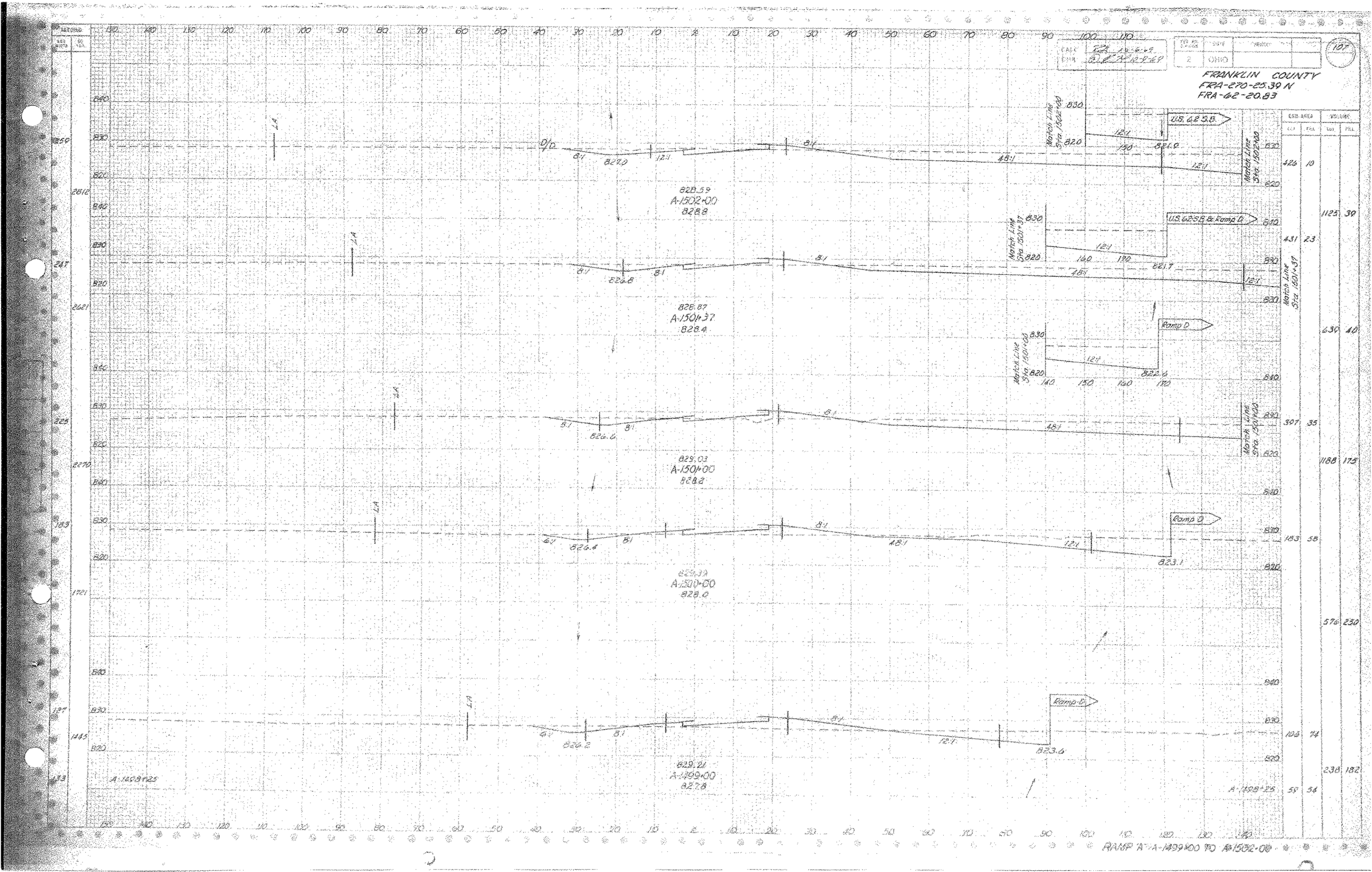
816.0 816.2 816.4 816.6 816.8 817.0 817.2 817.4 817.6 817.8 818.0 818.2 818.4 818.6 818.8 819.0 819.2 819.4 819.6 819.8 820.0 820.2 820.4 820.6 820.8 821.0 821.2 821.4 821.6 821.8 822.0

K-1113 K-1114 K-1115 K-1116 K-1117 K-1118 K-1119 K-1120 K-1121 K-1122 K-1123 K-1124 K-1125 K-1126

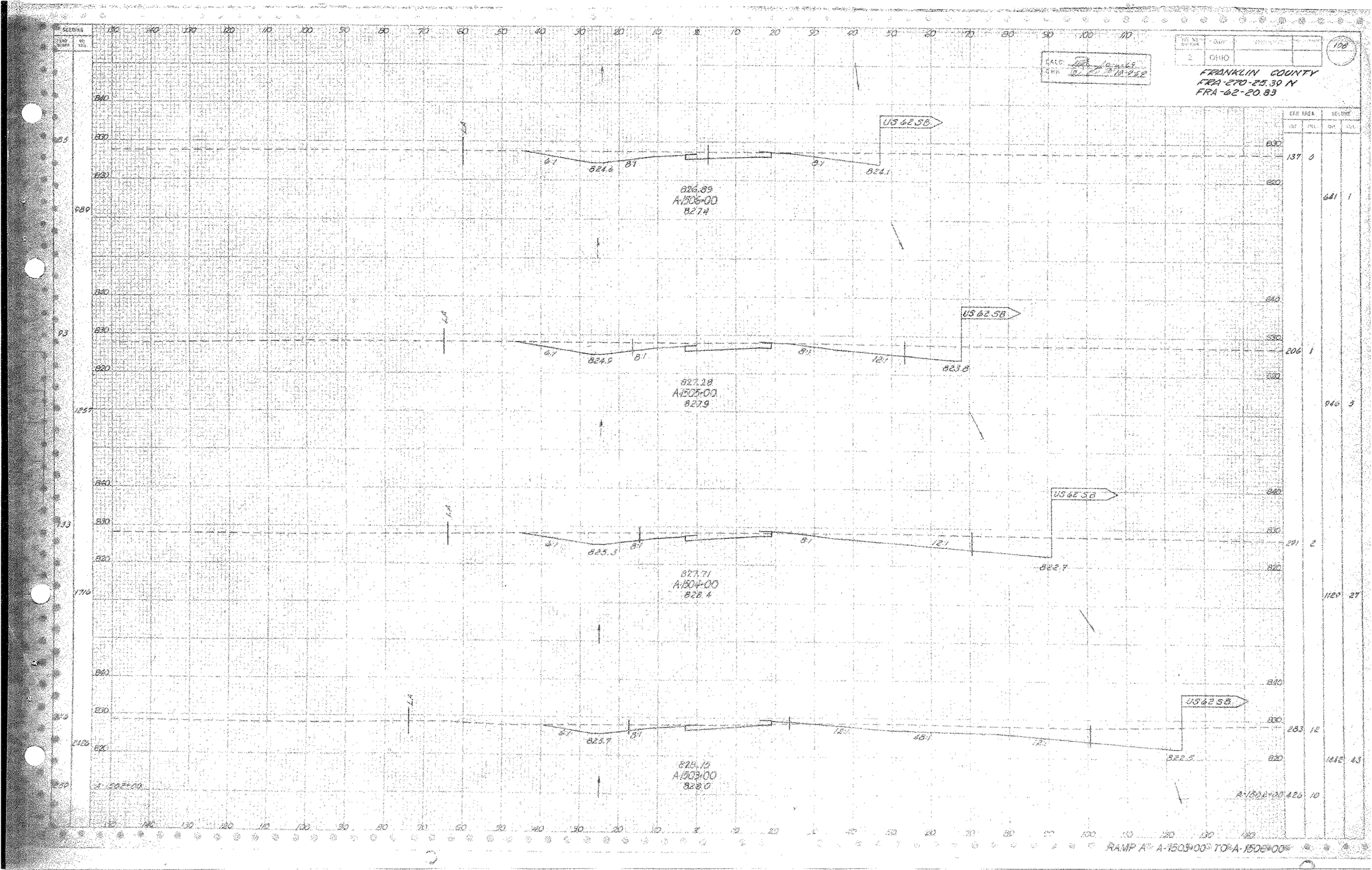
RAMP "K" PROFILE K-1113+00 TO K-1126+00



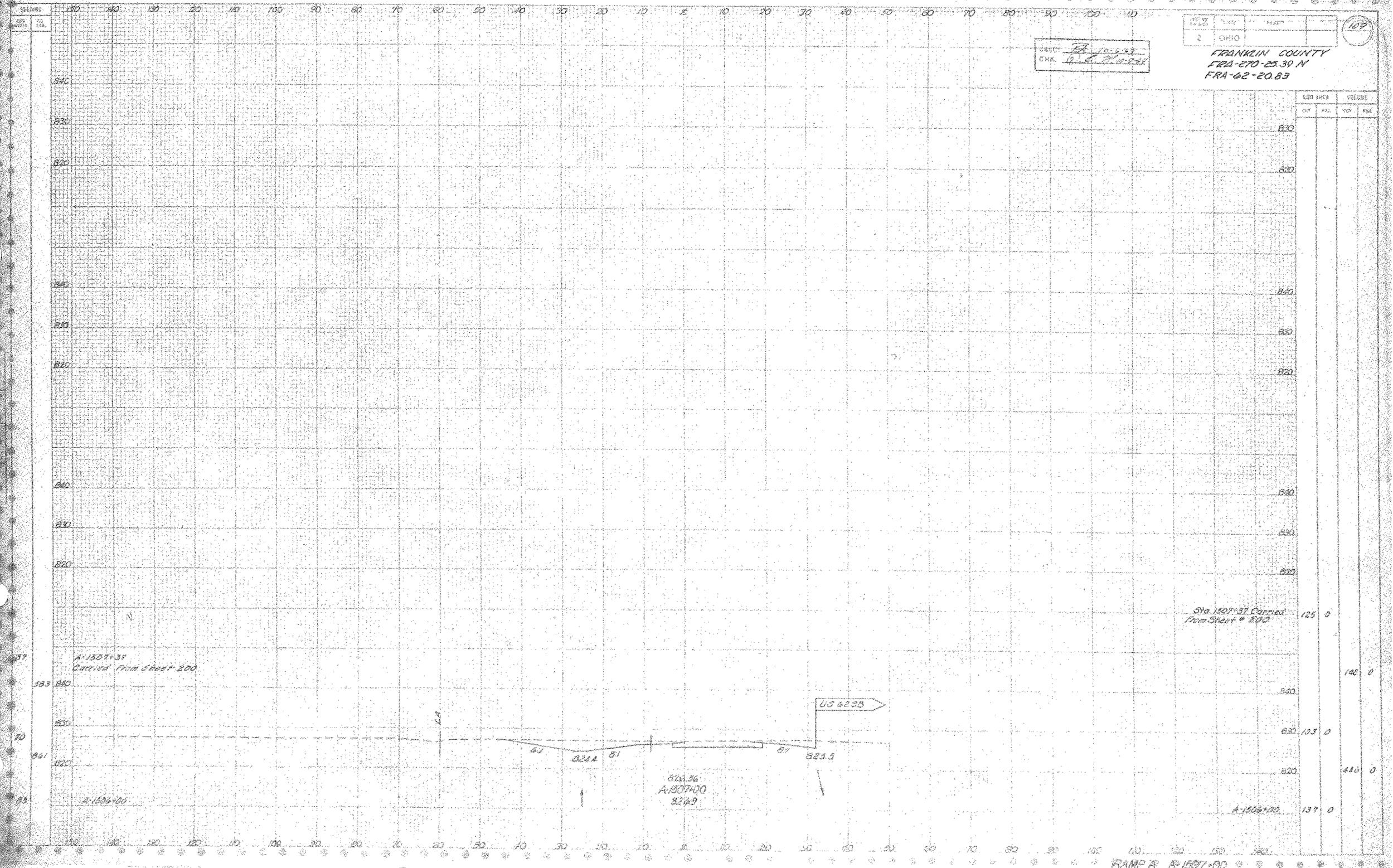
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
OHIO
Ramp D
6:1
8:1
825.9
824.3
828.66
A-1498+25
827.5
824.3
825.0
826.97
A-1497+00
827.5
822.5
825.2
824.91
A-1496+00
826.2
Relocate 15' W.L.
A-1494+98.5
Carried From Sheet 113
RAMP A A-1496+00 TO A-1498+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
107
U.S. 62 S.B.
U.S. 62 S.B. & Ramp D
Ramp D
Match Line Sta. 1502+00
Match Line Sta. 1501+37
Match Line Sta. 1501+00
828.59
A-1502+00
828.8
828.87
A-1501+37
828.4
829.03
A-1501+00
828.2
829.39
A-1500+00
828.0
829.21
A-1499+00
827.8
A-1498+25
RAMP "A" A-1499+00 TO A-1502+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
OHIO
US 62 SB
826.89
A-1506+00
827.4
827.28
A-1505+00
827.9
827.71
A-1504+00
828.4
828.15
A-1503+00
828.0
RAMP A A-1503+00 TO A-1506+00



109
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CALC.
CHK.
A-1507+37
Carried From Sheet 200
Sta 1507+37 Carried From Sheet # 200
US 62 SB
824.4
823.5
A-1507+00
A-1506+00
A-1506+00
125 0
148 0
103 0
446 0
137 0
RAMP A A-1507+00

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

US 62 NB

843.69
C-1521+00
821.3

US 62 NB

841.69
C-1520+00
821.5

US 62 NB

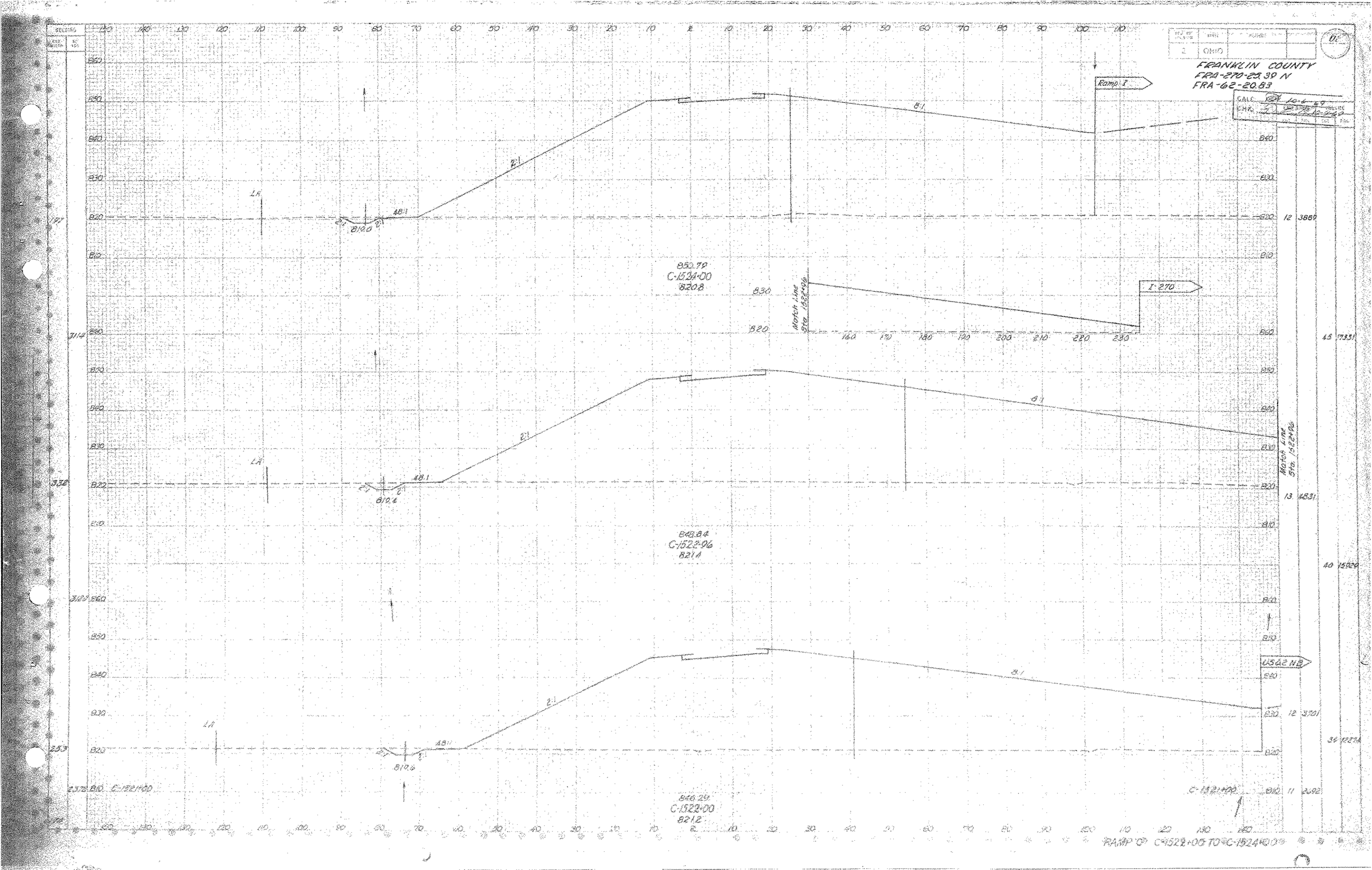
840.37
C-1519+00
822.4

US 62 NB

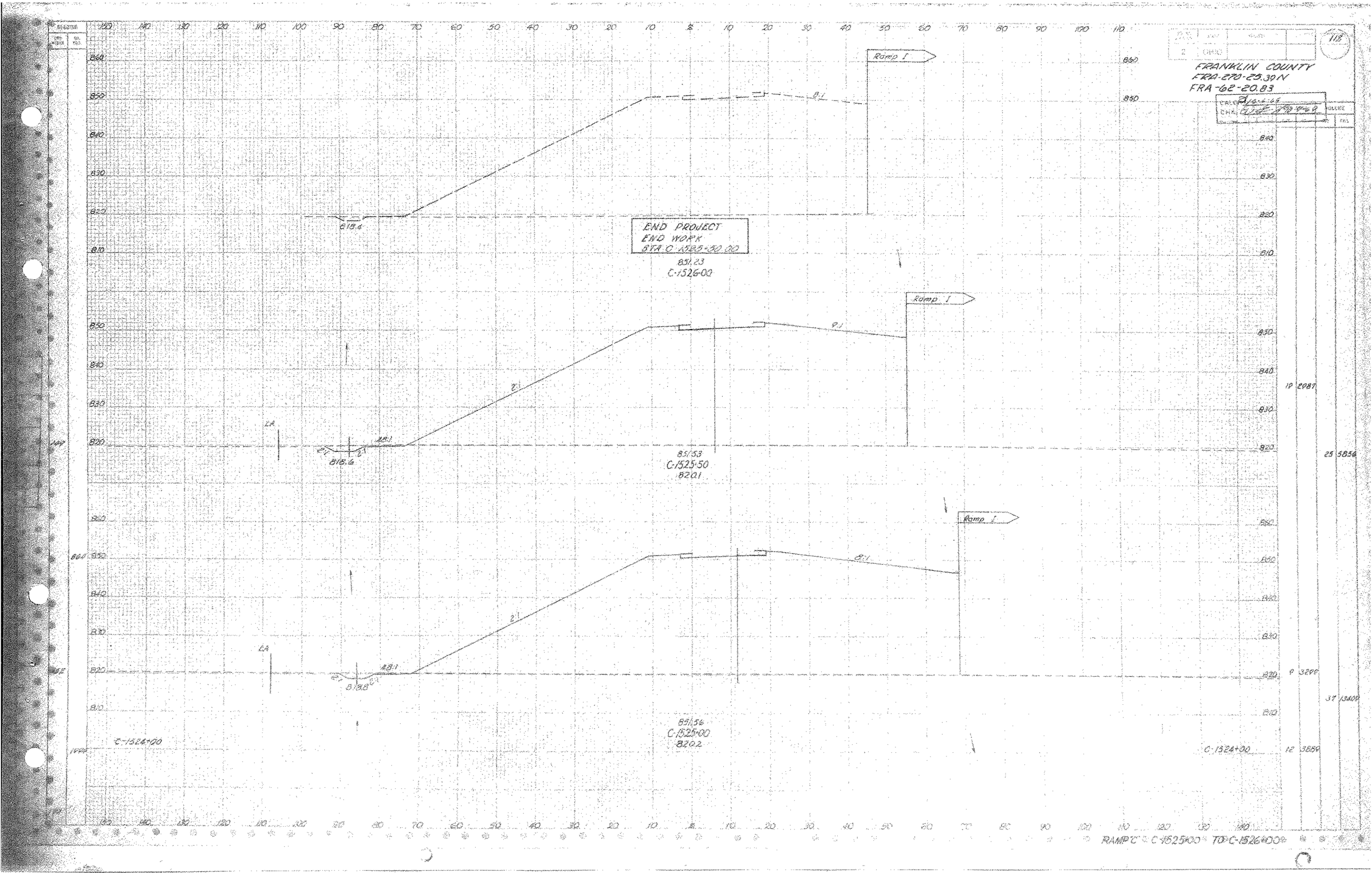
839.65
C-1518+00
823.7

C-1517+55
Carried From Sheet 25A

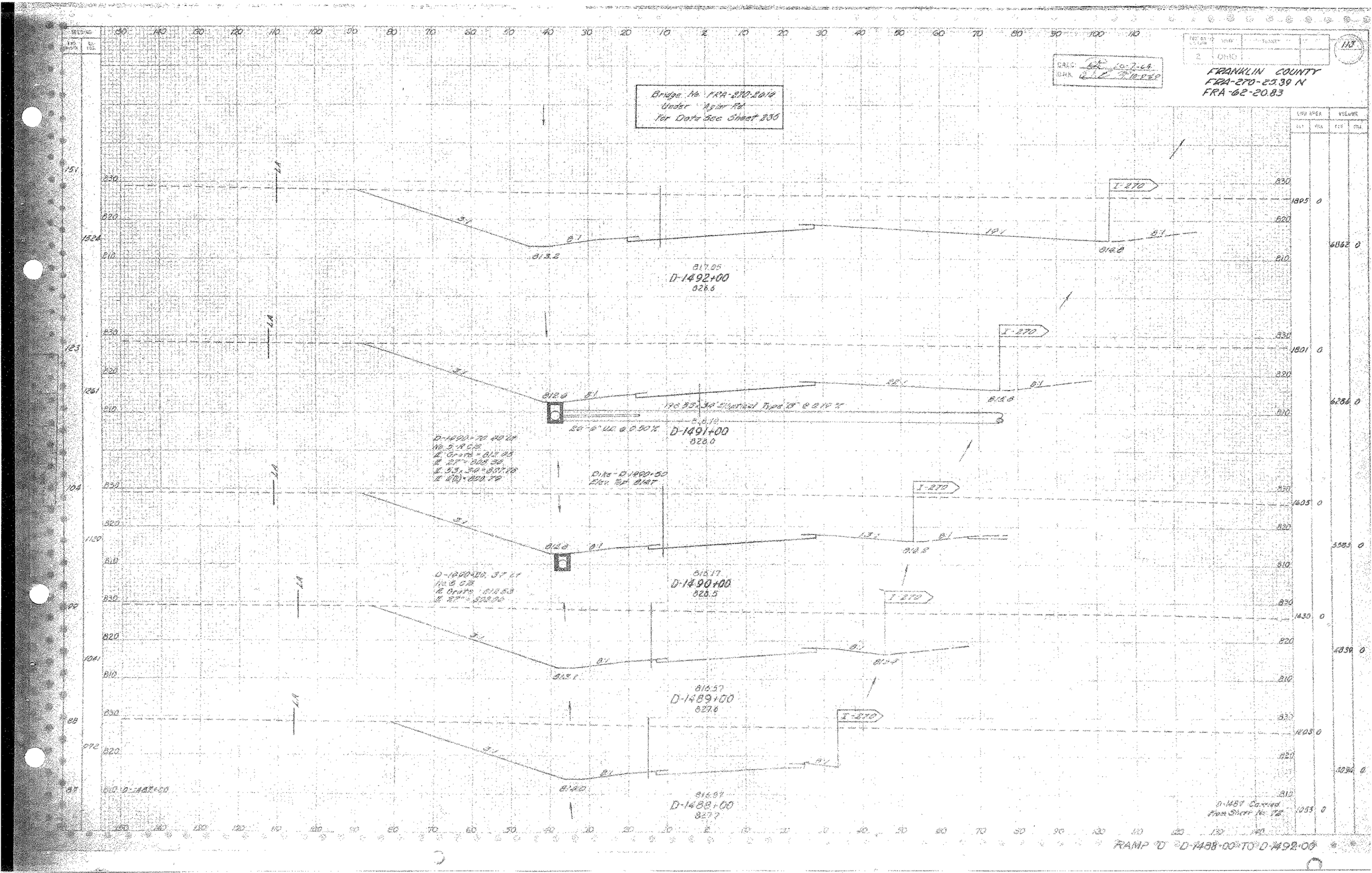
RAMP C "C-1518+00 TO C-1521+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
Ramp I
I-270
US 62 NB
850.79
C-1524+00
820.8
848.84
C-1522+96
821.4
846.29
C-1522+00
821.2
Match Line Sta. 1522+96
C-1521+00
RAMP 'O' C-1522+00 TO C-1524+00



118
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
Ramp I
8:1
818.4
END PROJECT
END WORK
STA C-1525+50.00
851.23
C-1526+00
Ramp I
9:1
2:1
LA
48:1
2:1
818.6
851.53
C-1525+50
820.1
Ramp I
8:1
2:1
LA
48:1
2:1
818.8
851.56
C-1525+00
820.2
C-1524+00
C-1524+00
19 2987
25 5856
9 3299
37 13400
12 3889
RAMP C C-1525+00 TO C-1526+00



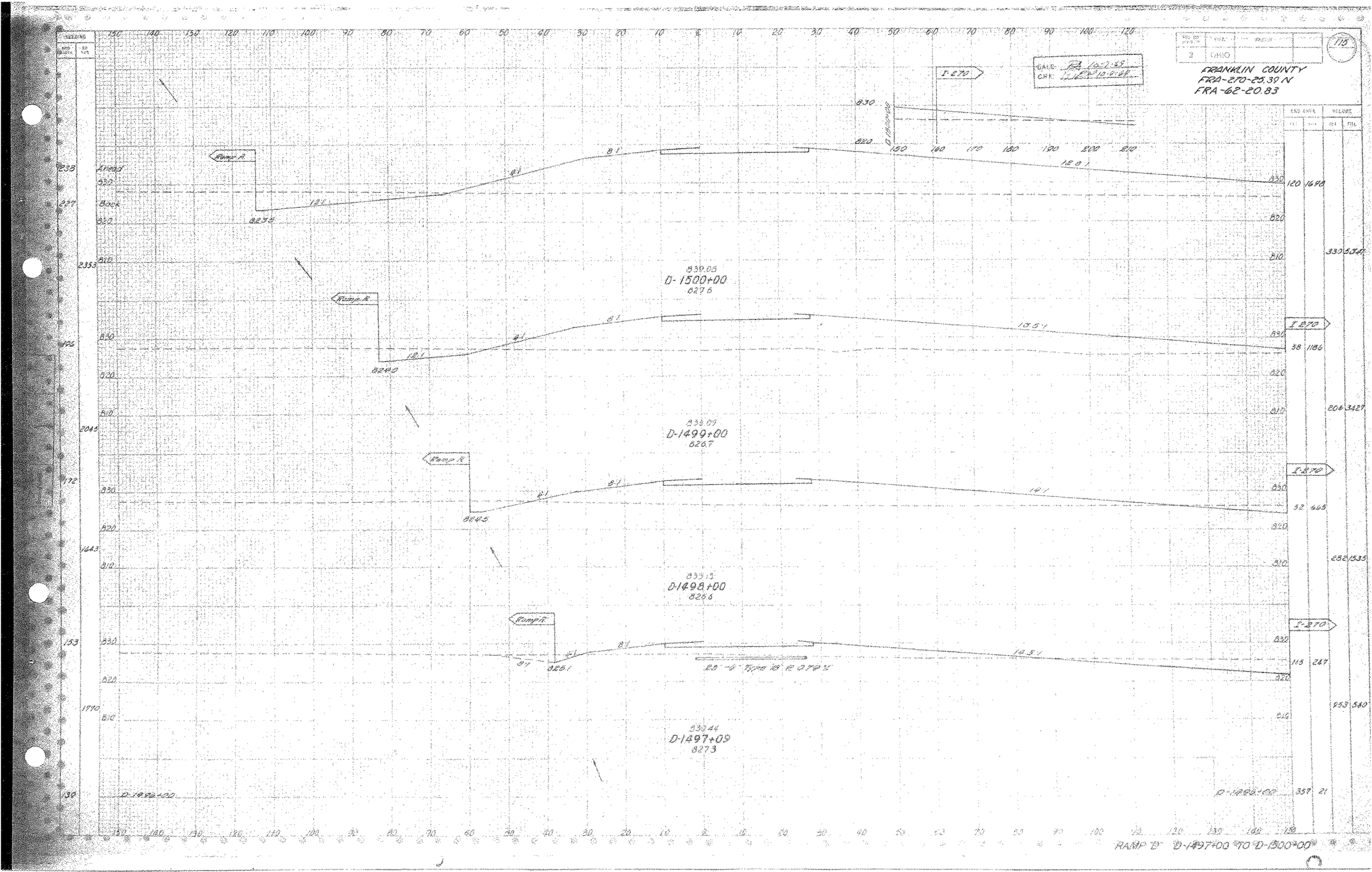
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
Bridge No. FRA-270-2016
Under Agler Rd.
For Data See Sheet 235
D-1492+00
D-1491+00
D-1490+00
D-1489+00
D-1488+00
I-270
RAMP "D" D-1488+00 TO D-1492+00

CALC [illegible] 10-7-69
CHK [illegible]

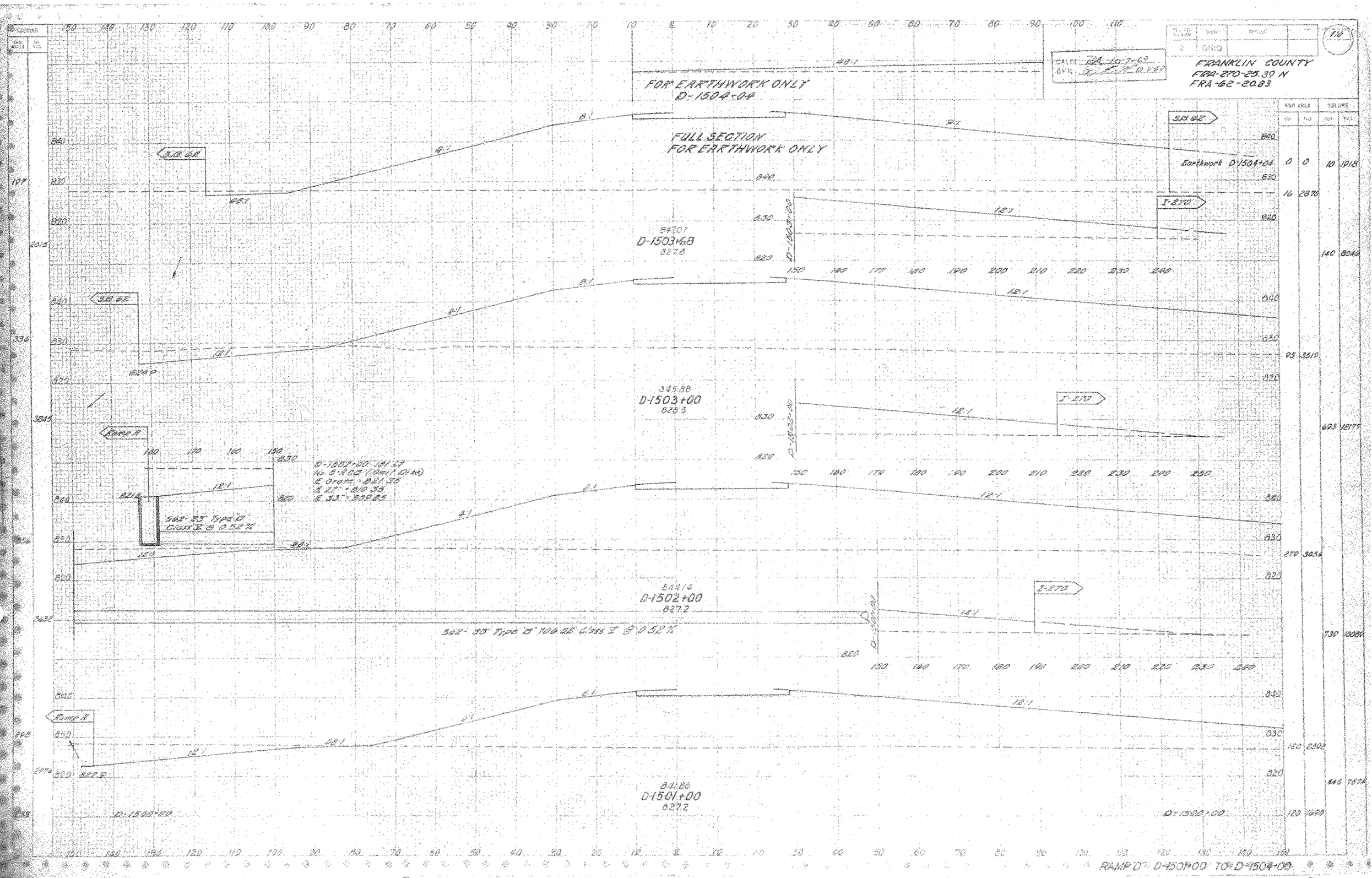
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

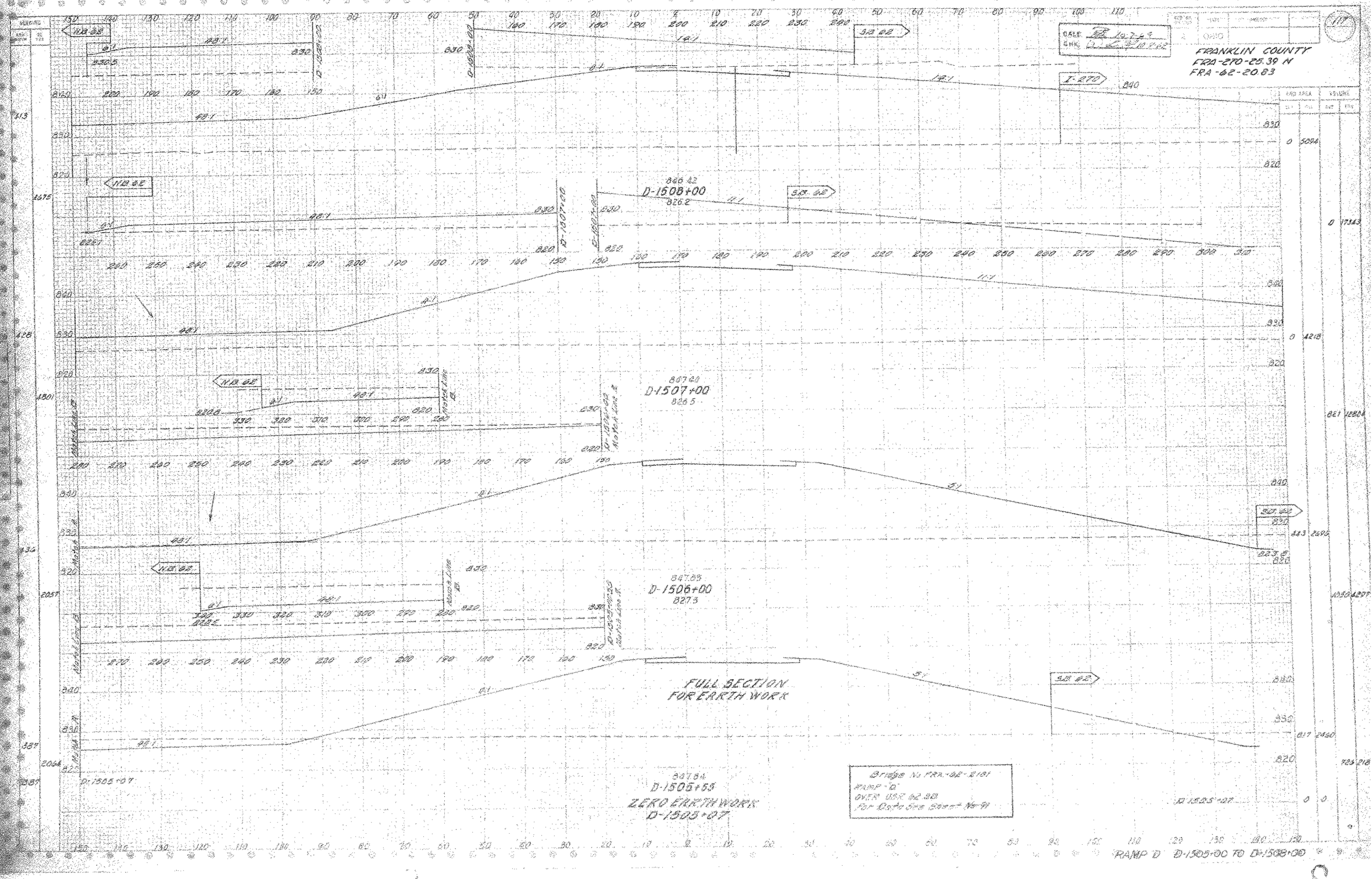
114

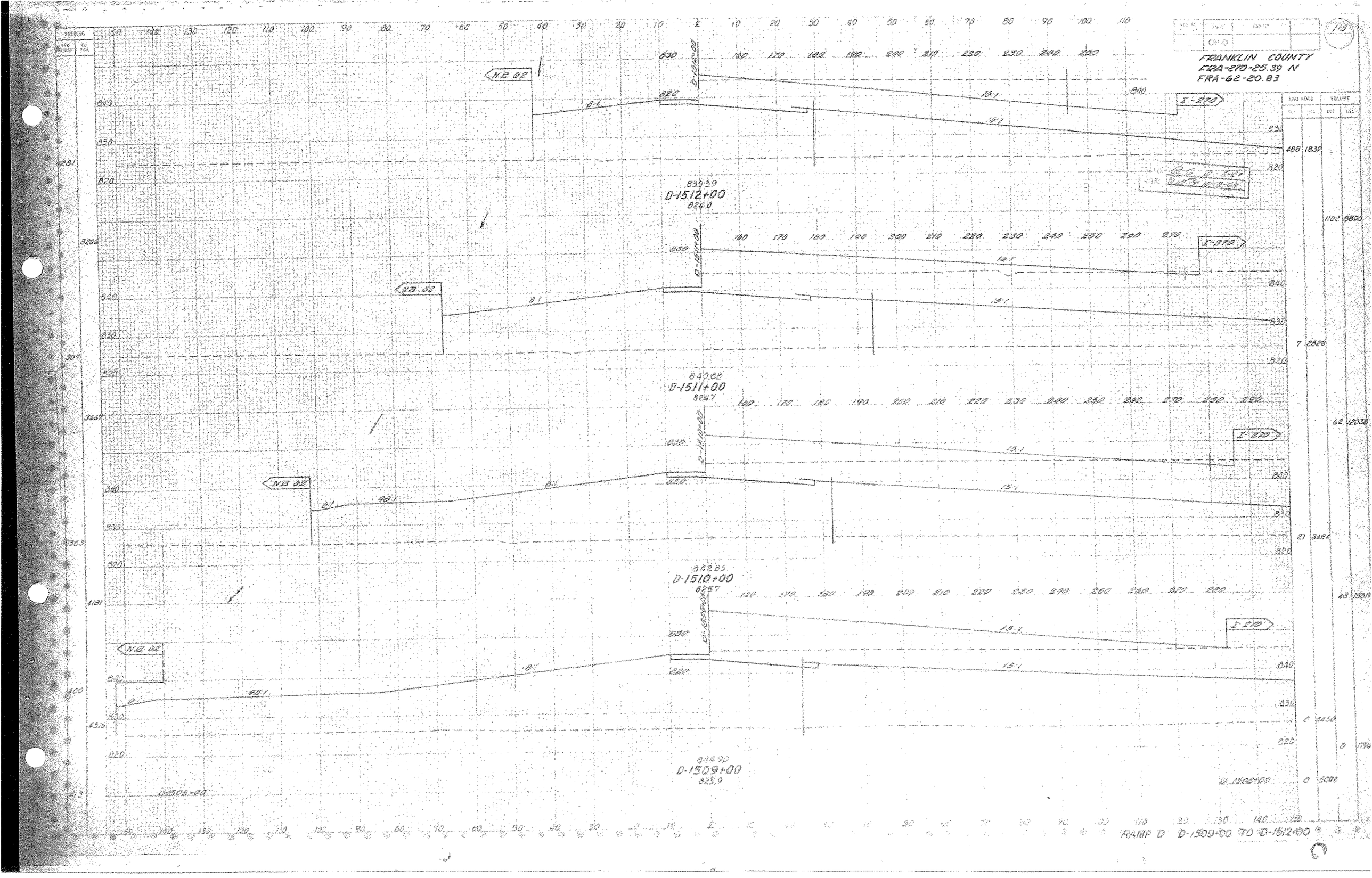
RAMP B D-1493+00 TO D-1496+00

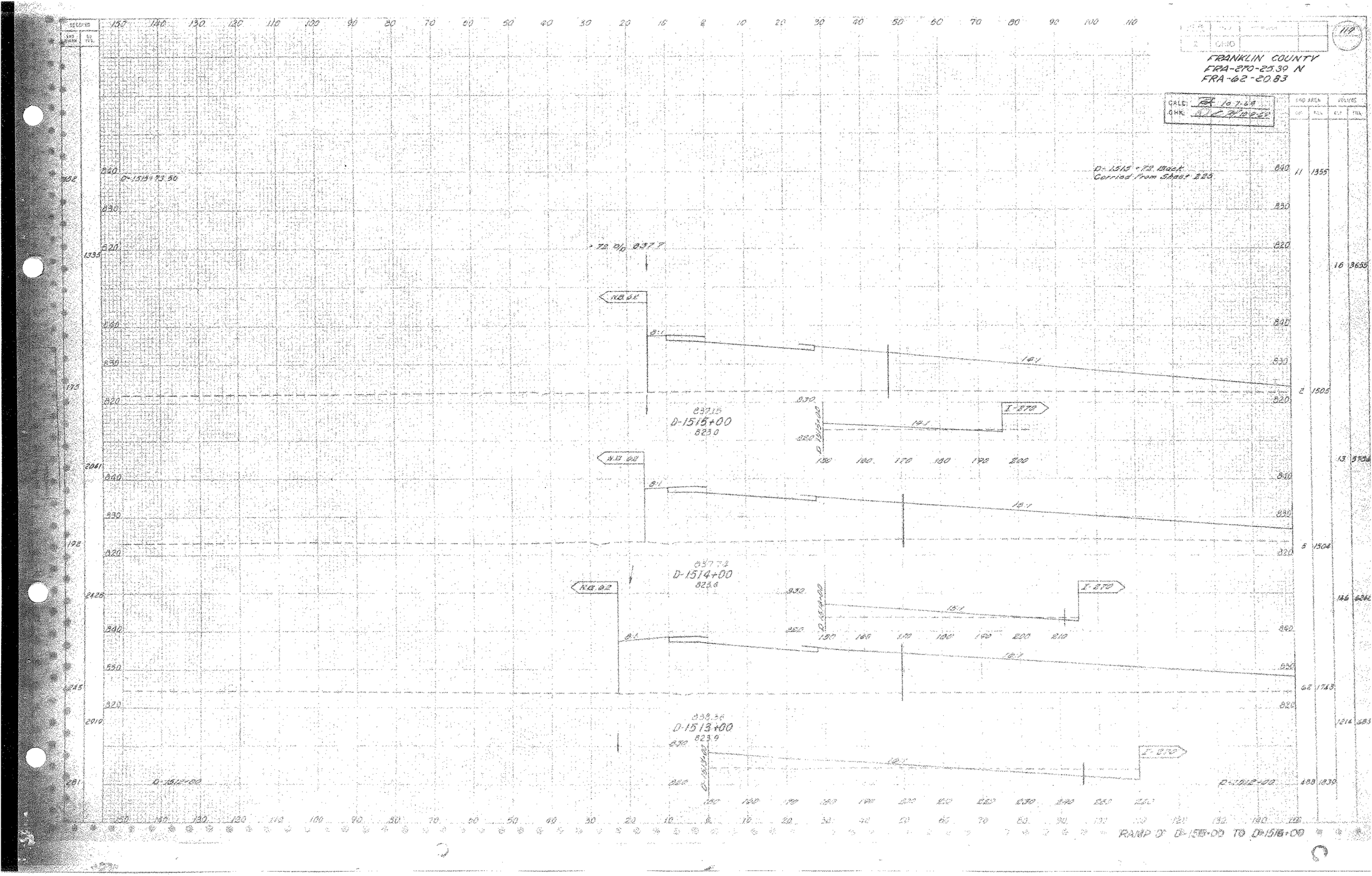


FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
2 OHIO
I-270
Ramp A
Ramp B
Ramp C
Ramp D
839.05
D-1500+00
827.6
836.09
D-1499+00
826.7
833.13
D-1498+00
826.6
830.44
D-1497+09
827.3
Ahead
Back
RAMP "D" D-1497+00 TO D-1500+00

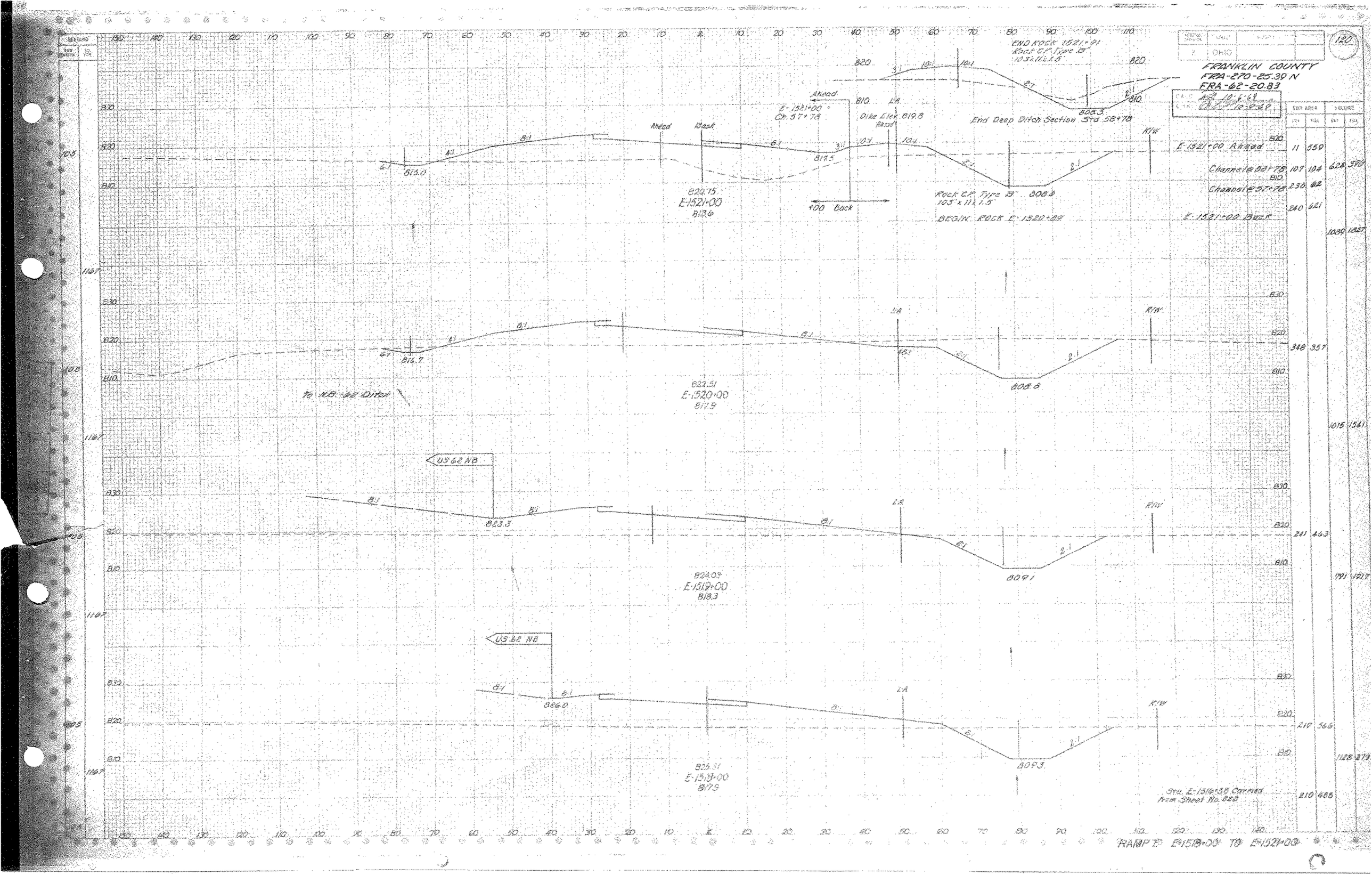

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
FOR EARTHWORK ONLY
D-1504+04
FULL SECTION
FOR EARTHWORK ONLY
Earthwork D-1504+04
847.07
D-1503+68
827.8
845.88
D-1503+00
828.3
844.14
D-1502+00
827.2
841.86
D-1501+00
827.2
Ramp A
I-270
RAMP D D-1501+00 TO D-1504+00


FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
D-1508+00
D-1507+00
D-1506+00
FULL SECTION
FOR EARTH WORK
D-1505+55
ZERO EARTH WORK
D-1505+07
Bridge No FRA-62-2181
RAMP "D"
OVER USR 62.38
For Data See Sheet No 91
RAMP D D-1505+00 TO D-1508+00

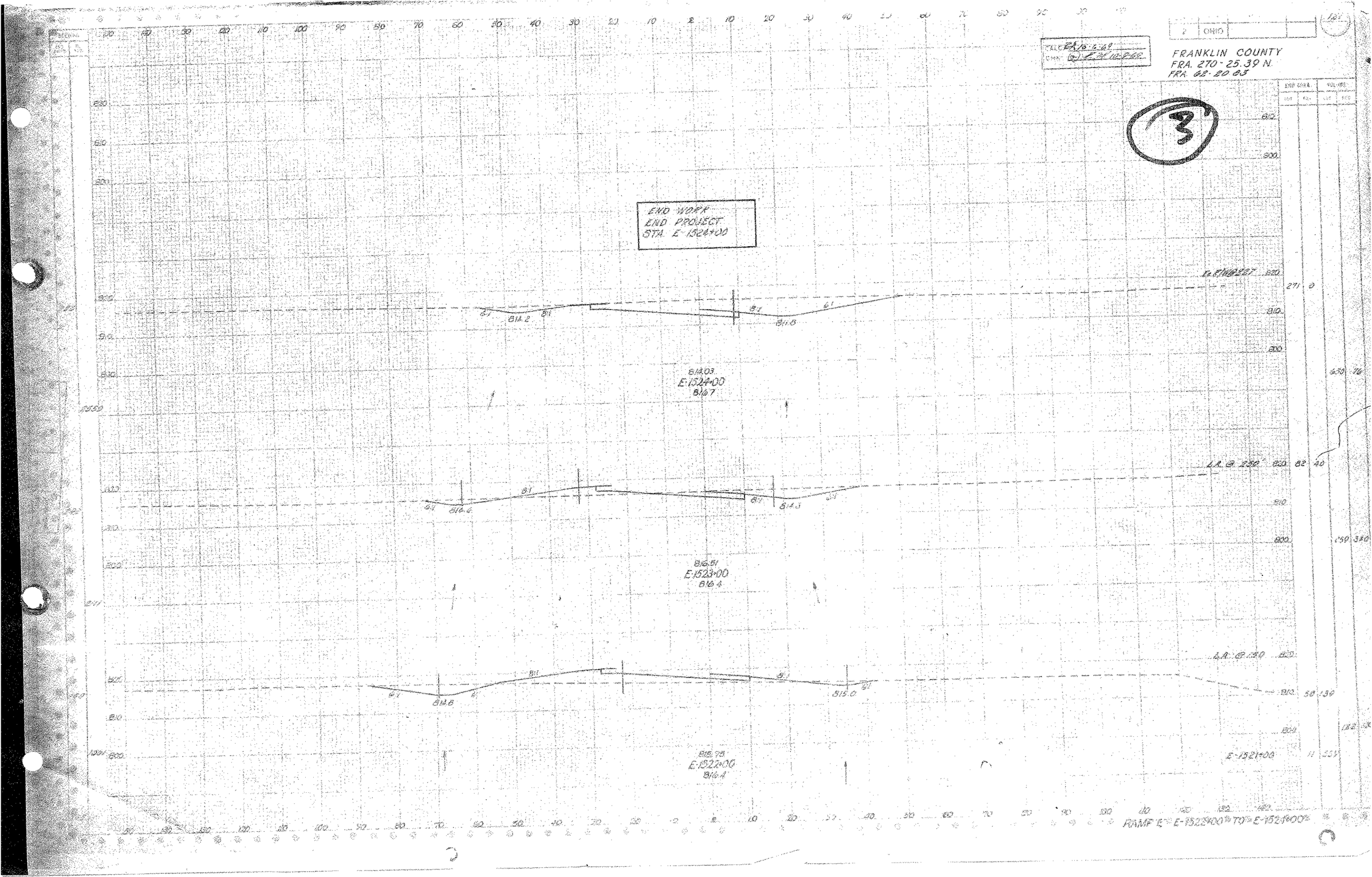

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
D-1512+00
D-1511+00
D-1510+00
D-1509+00
I-270
N.B. 62
RAMP D D-1509+00 TO D-1512+00



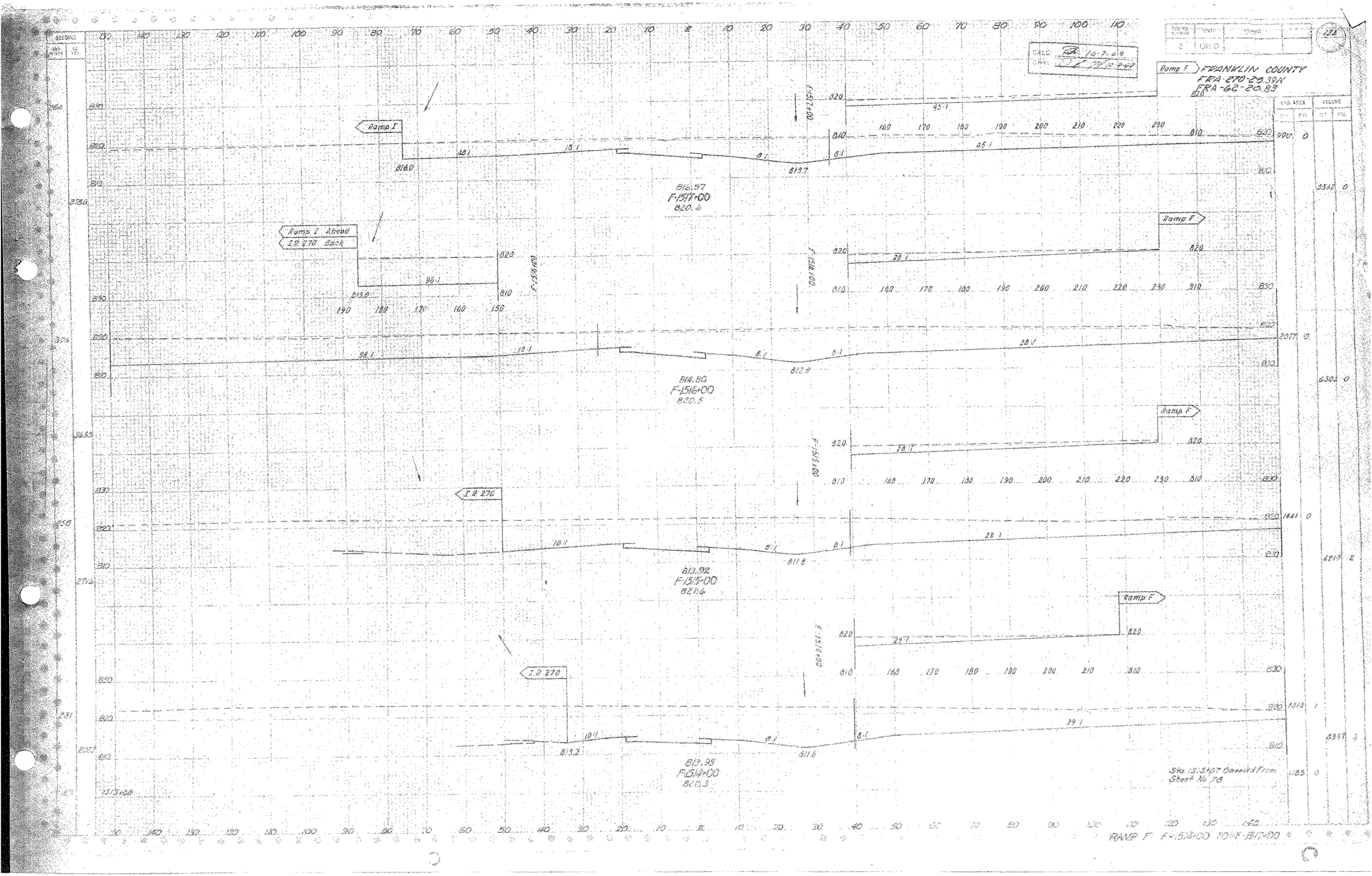
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CALC.
CHK.
D-1515+72 Back
Carried From Sheet 225
D-1515+00
D-1514+00
D-1513+00
I-270
RAMP 'D' D-1515+00 TO D-1516+00



120
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
END ROCK 1521+91
Rock C.P. Type "B"
10.3' x 11' x 1.5'
Ahead
E-1521+00 = Ch. 57+78
Dike Elev. 819.8
End Deep Ditch Section Sta 58+78
Ahead
Back
815.0
820.75
E-1521+00
813.6
817.5
+00 Back
Rock C.P. Type "B" 808.8
10.3' x 11' x 1.5'
BEGIN ROCK E-1520+89
E-1521+00 Ahead
Channel @ 58+78
Channel @ 57+78
E-1521+00 Back
816.7
822.51
E-1520+00
817.9
808.8
To N.B. 62 Ditch
US 62 NB
823.3
824.03
E-1519+00
818.3
809.1
US 62 NB
826.0
825.31
E-1518+00
817.9
809.3
Sta. E-1516+58 Carried from Sheet No. 228
RAMP E E-1518+00 TO E-1521+00



FRANKLIN COUNTY
FRA. 270-25.39 N.
FRA. 62-20.83
3
END WORK
END PROJECT
STA. E-1524+00
814.03
E-1524+00
816.7
816.81
E-1523+00
816.4
818.78
E-1522+00
816.4
E-1521+00
RAMP E-1522+00 TO E-1524+00



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
Ramp F
Ramp I
Ramp I Ahead
I.R. 270 Back
I.R. 270
816.57
F-1517+00
820.4
814.80
F-1516+00
820.5
813.92
F-1515+00
821.6
813.95
F-1514+00
820.3
Sta. 1513+07 Carried From Sheet No. 78
RAMP F F-1514+00 TO F-1517+00

DISTRICT	COUNTY	PROJECT	SHEET
2	OHIO		183

CALC. KF 10-7-69
CHK. DC 10-7-69

FRANKLIN COUNTY
Ramp F FRA-270-25.39N
FRA-62-20.83

SERVING

Ramp I

SB US 62

Ramp F

Dike @ 1518+50 = 821.50

F-1517+00

F-1518+00

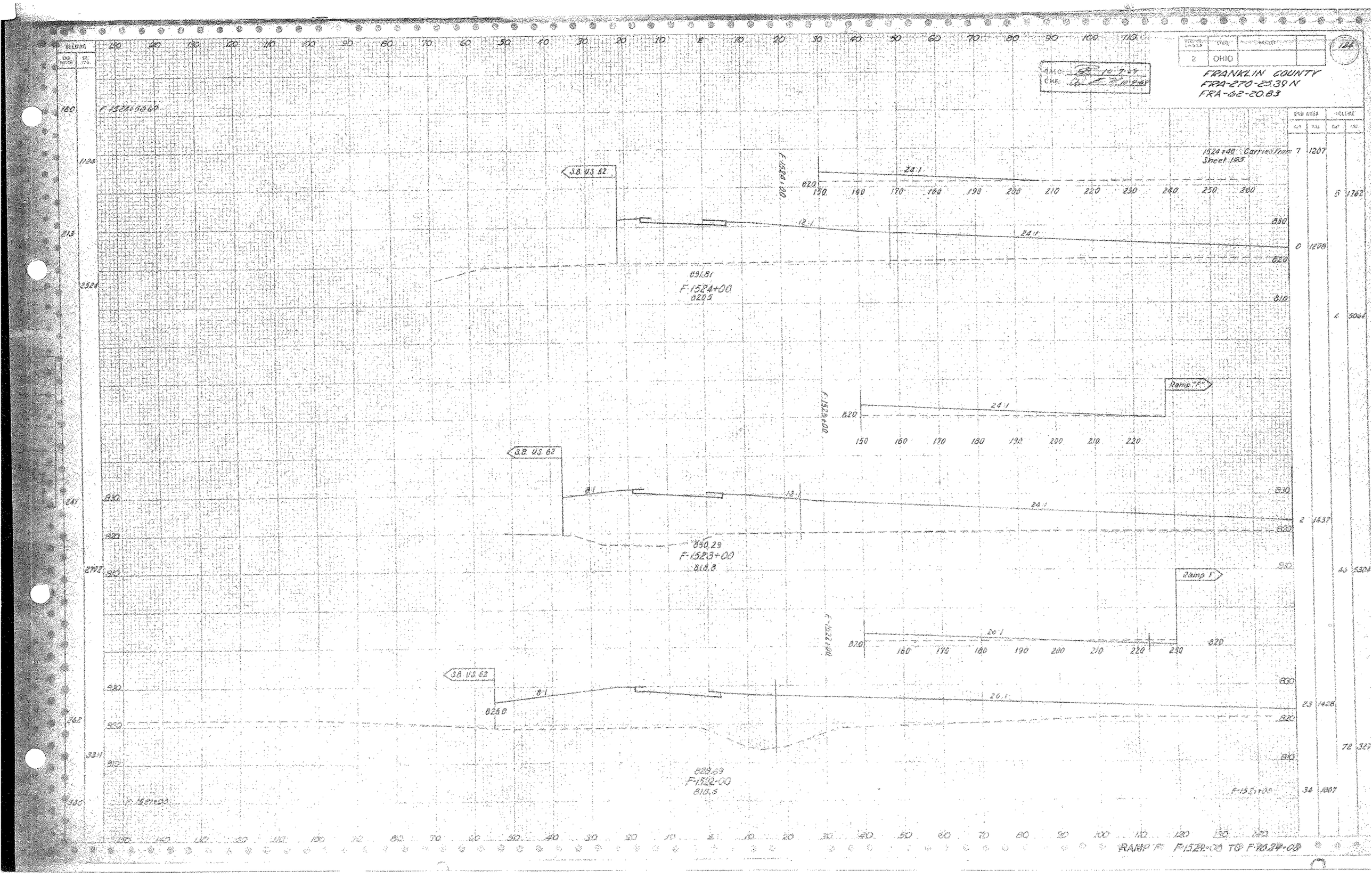
F-1519+00

F-1520+00

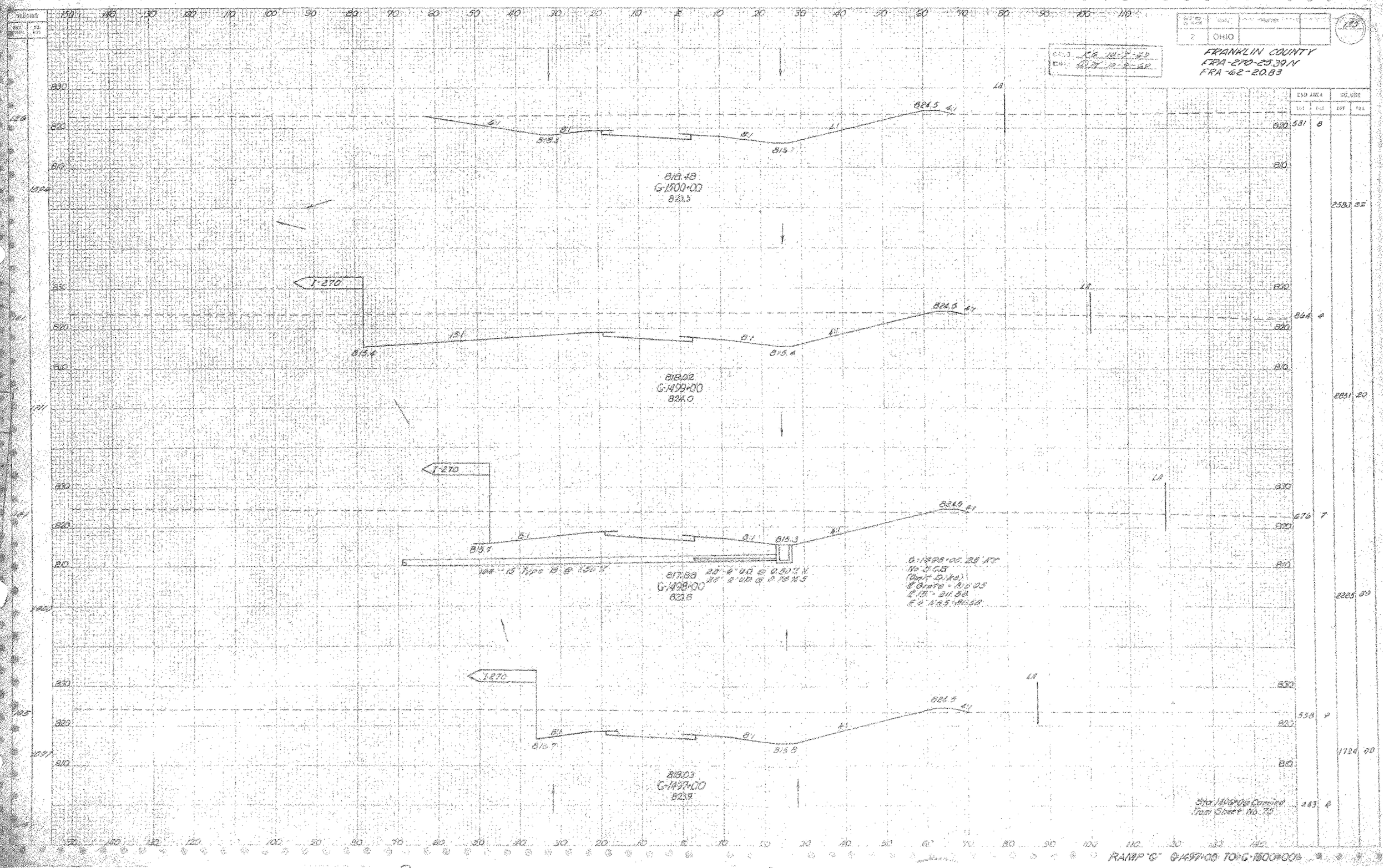
F-1521+00

RAMP F F-1518+00 TO F-1521+00

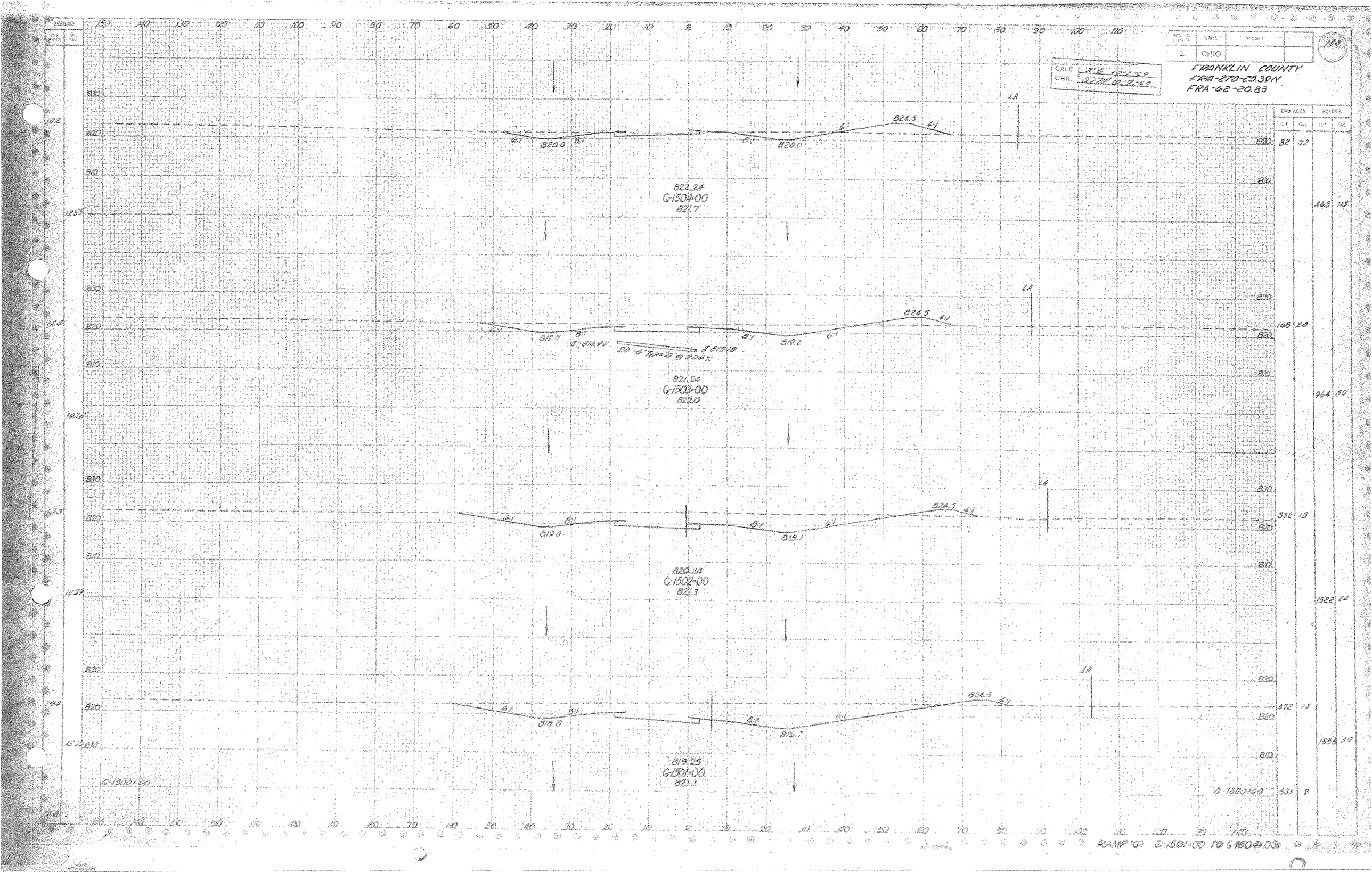
END AREA		VOLUME	
CUT	FILL	CUT	FILL
34	1007		
		124	3124
33	680		
		208	1744
		1088	481
521	0		
		2221	0
960	0		



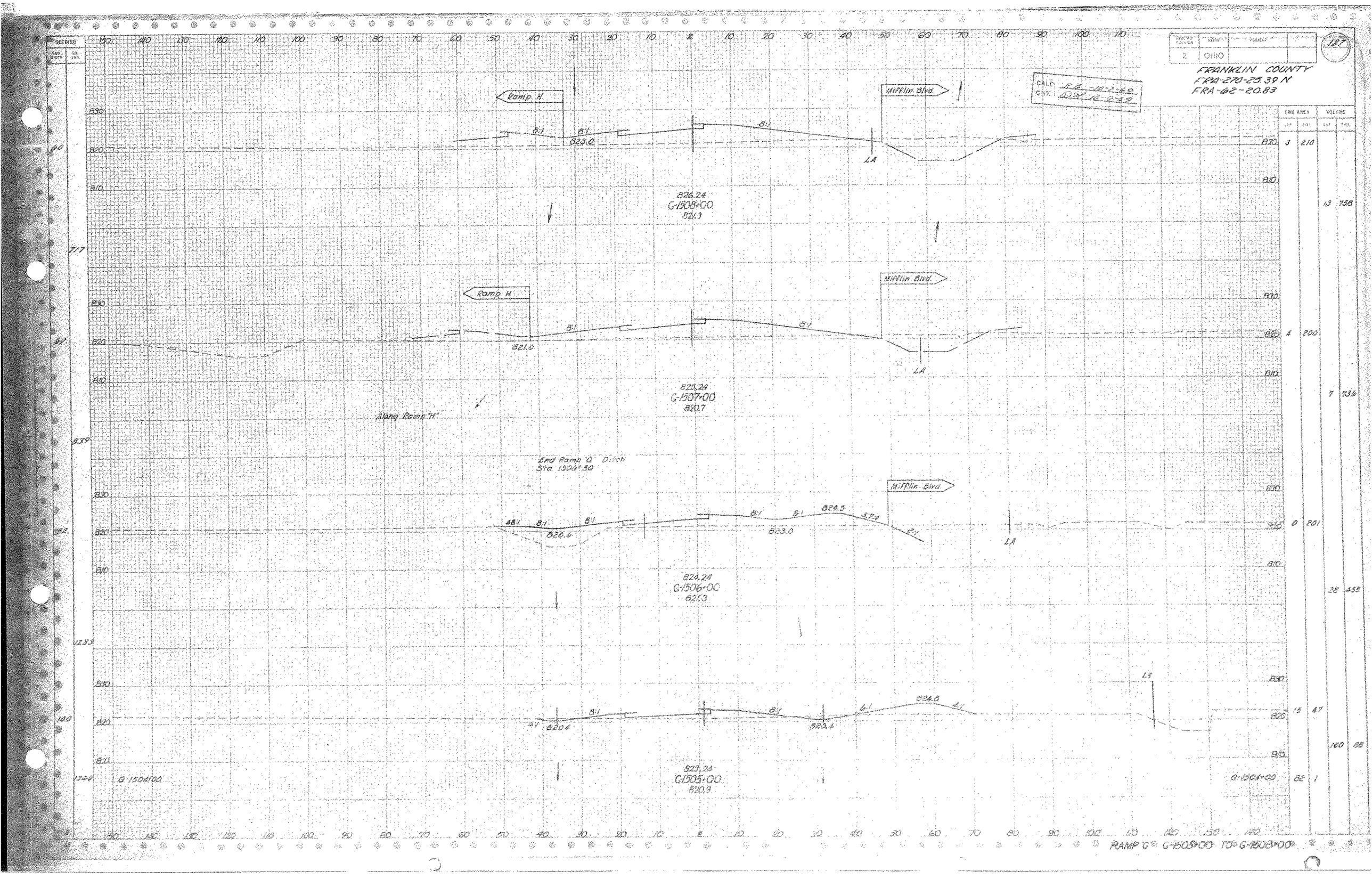
2
OHIO
124
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
1524+40 Carried From Sheet 185
S.B. U.S. 62
F-1524+00
831.81
820.5
24:1
12:1
Ramp "F"
F-1523+00
830.29
818.8
8:1
Ramp F
F-1522+00
828.69
818.5
826.0
26:1
RAMP F F-1522+00 TO F-1524+00



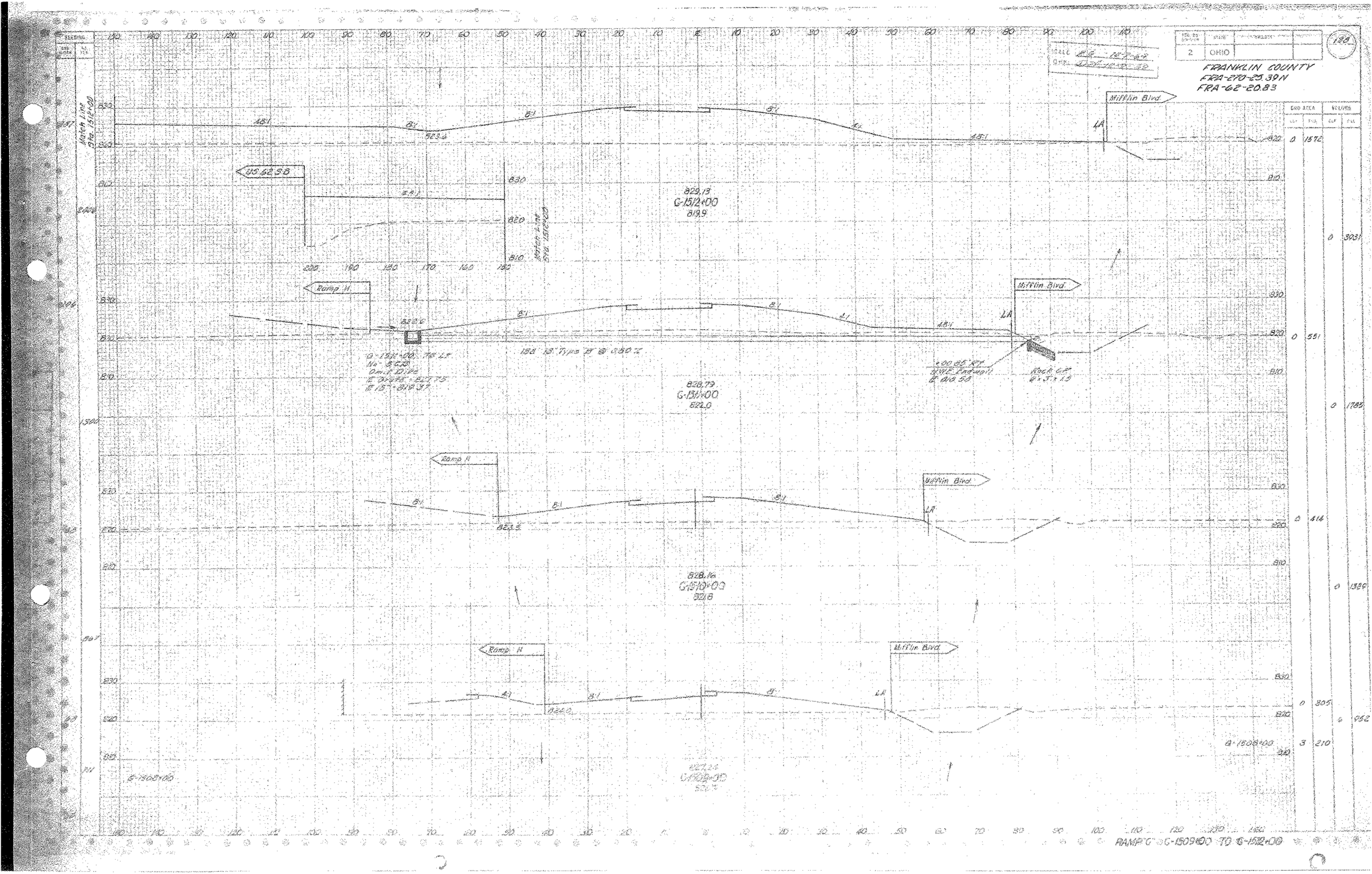
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
END AREA
SOLUTION
818.48
G-1500+00
823.5
818.02
G-1499+00
824.0
817.88
G-1498+00
823.8
818.03
G-1497+00
823.9
I-270
824.5
815.4
815.3
816.7
815.8
Sta 1496+00 Carried From Sheet No. 70
RAMP "G" G-1497+00 TO G-1500+00



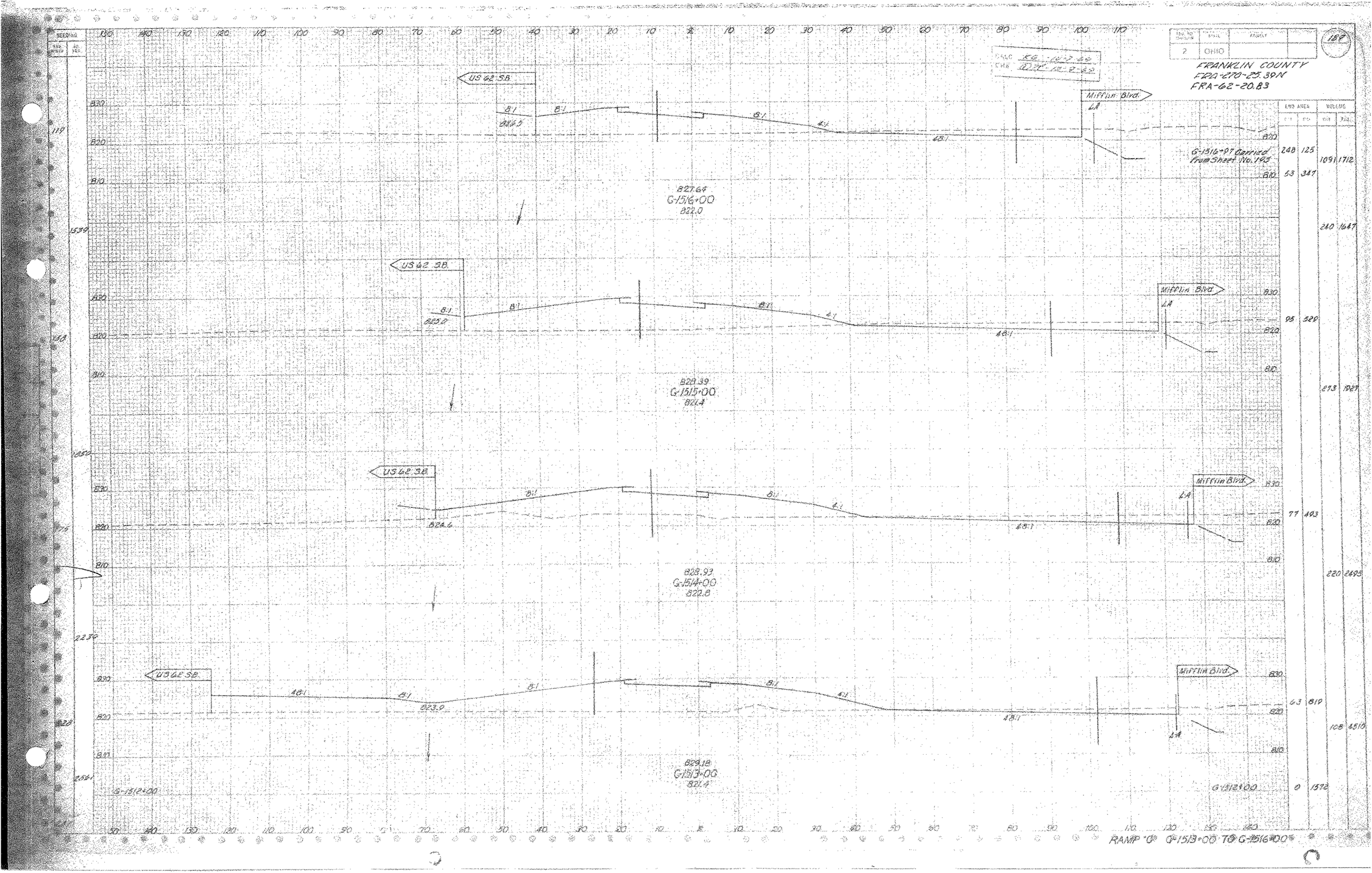
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC
CHK
LA
824.5
820.0
822.24
G-1504+00
821.7
819.7
819.2
821.24
G-1503+00
822.0
819.0
819.1
820.24
G-1502+00
823.3
818.8
816.7
819.25
G-1501+00
823.4
END AREA
VOLUME
82
32
465
113
168
28
964
80
332
18
1522
52
472
13
1855
39
531
8
RAMP "Q" G-1501+00 TO G-1504+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
2
OHIO
127
CALC. R.G. 10-2-69
CHK. 10-2-69
Ramp H
Mifflin Blvd.
8:1
823.0
LA
826.24
G-1508+00
821.3
821.0
825.24
G-1507+00
820.7
Along Ramp "H"
End Ramp "G" Ditch
Sta 1506+50
48:1
826.4
824.5
823.0
824.24
G-1506+00
821.3
4:1
820.4
824.5
823.4
823.24
G-1505+00
820.9
G-1504+00
END AREA
VOLUME
3 210
13 758
4 200
7 736
0 201
28 455
15 47
160 88
82 1
RAMP "G" G-1505+00 TO G-1508+00



2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
Mifflin Blvd
US 62 SB
Ramp H
Match Line Sta. 1512+00
829.13
G-1512+00
819.9
828.79
G-1511+00
822.0
828.16
G-1510+00
821.8
827.24
G-1509+00
LA
RAMP "G" G-1509+00 TO G-1512+00



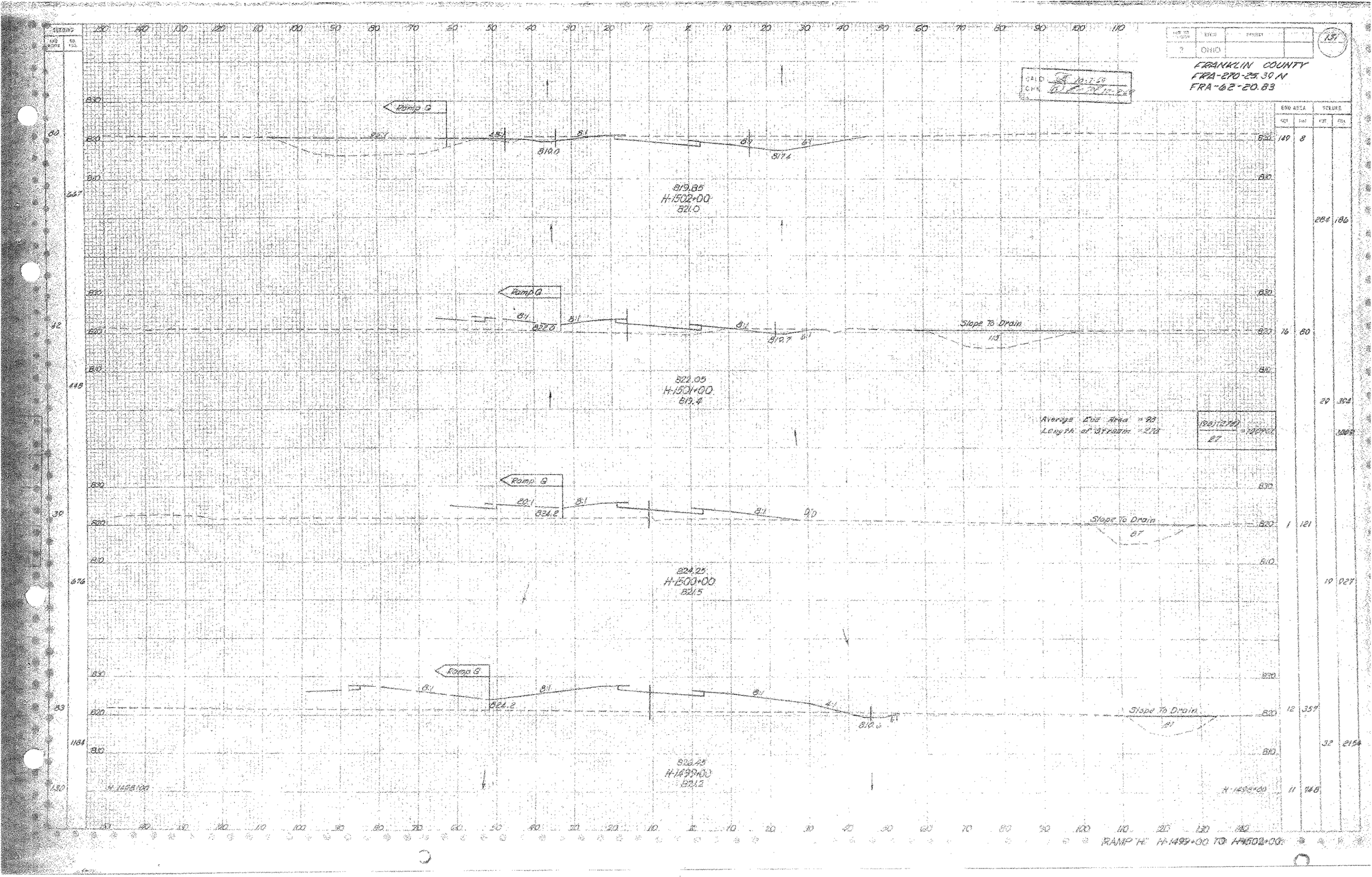
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
US 62 S.B.
Mifflin Blvd.
LA
8:1
4:1
48:1
827.64
G-1516+00
822.0
828.39
G-1515+00
821.4
828.93
G-1514+00
822.8
829.18
G-1513+00
821.4
G-1516+97 Carried From Sheet No. 193
G-1512+00
RAMP "C" G-1513+00 TO G-1516+00

STATE	PROJECT
OHIO	

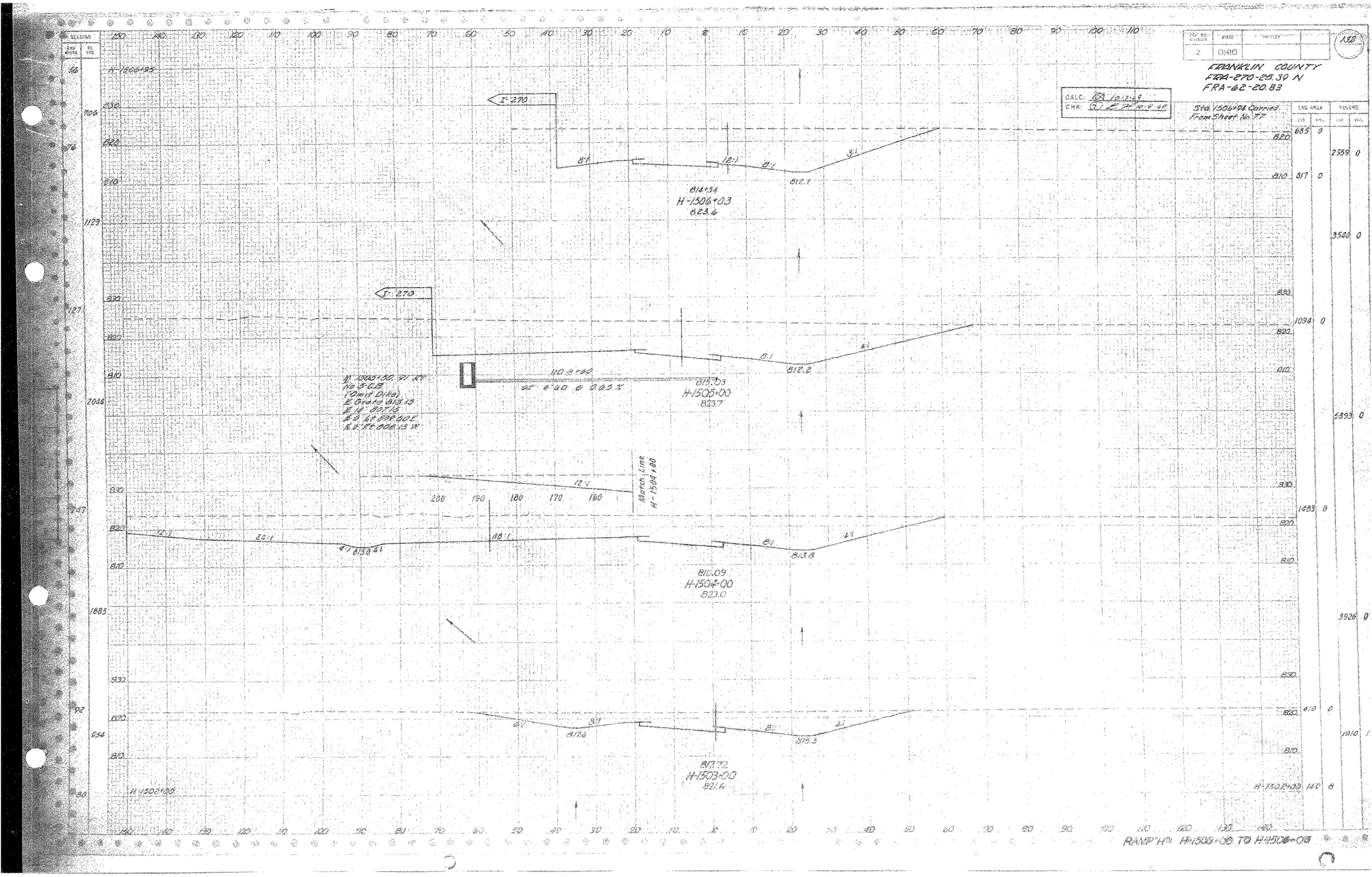
FRANKLIN COUNTY
FRA-670-25.39 N
FRA-62-20.83

CALC [illegible] 10-7-69
CHK [illegible]

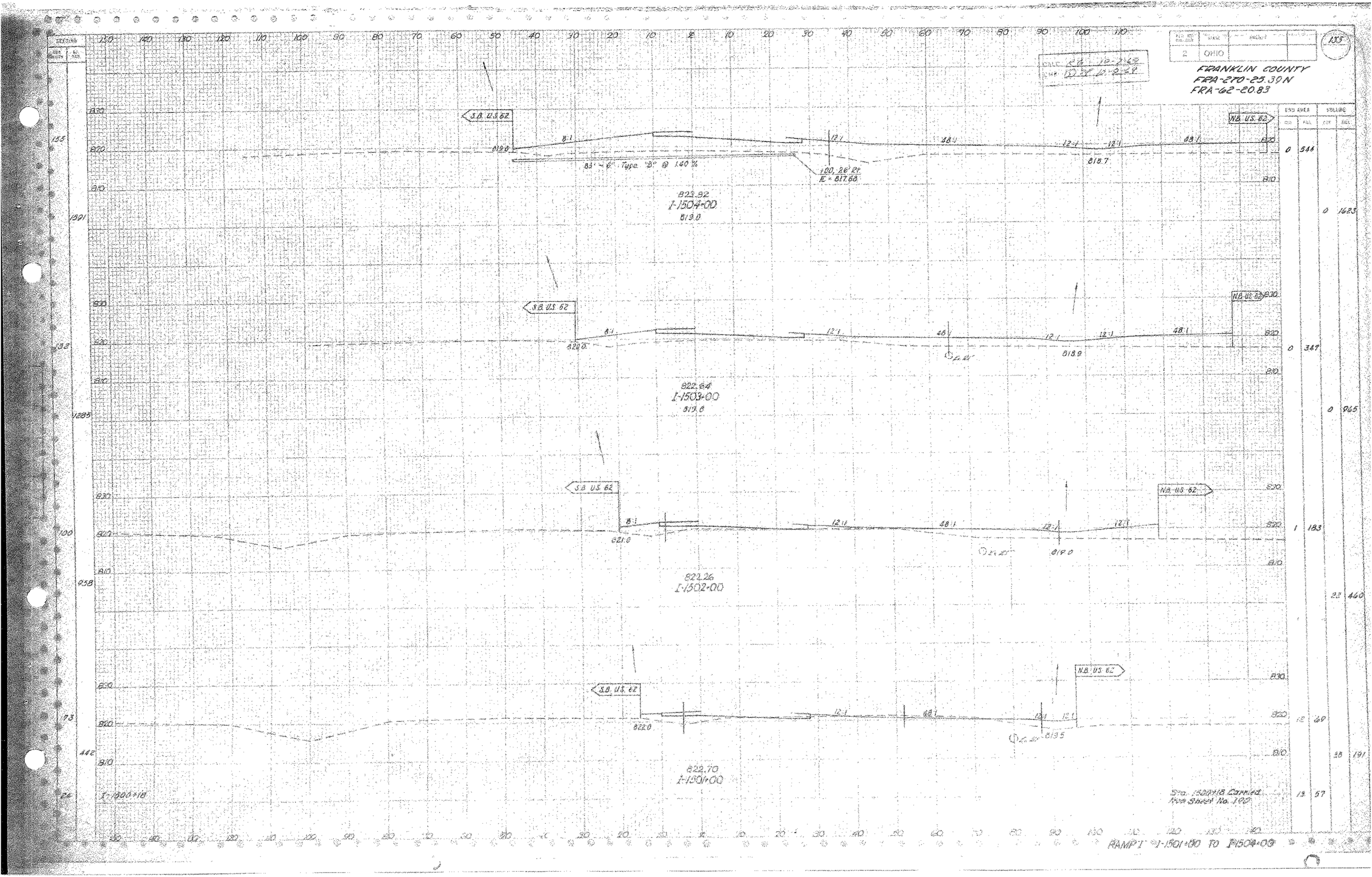
| SECOND | | |



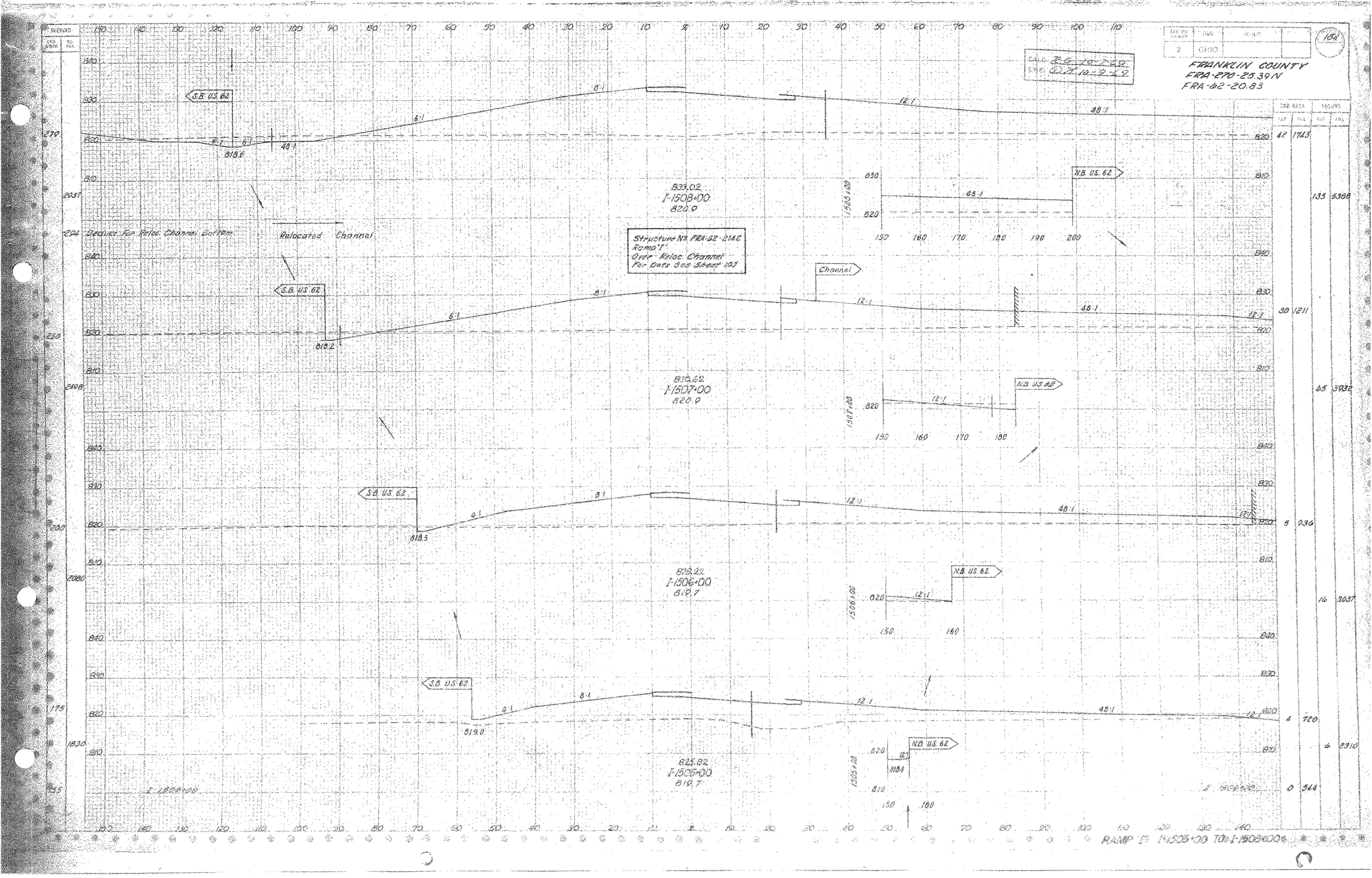
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
131
Ramp G
819.85
H-1502+00
821.0
Slope To Drain
822.05
H-1501+00
819.4
Average End Area = 98
Length of Stream = 270
824.25
H-1500+00
821.5
826.45
H-1499+00
821.2
RAMP "H" H-1499+00 TO H-1502+00



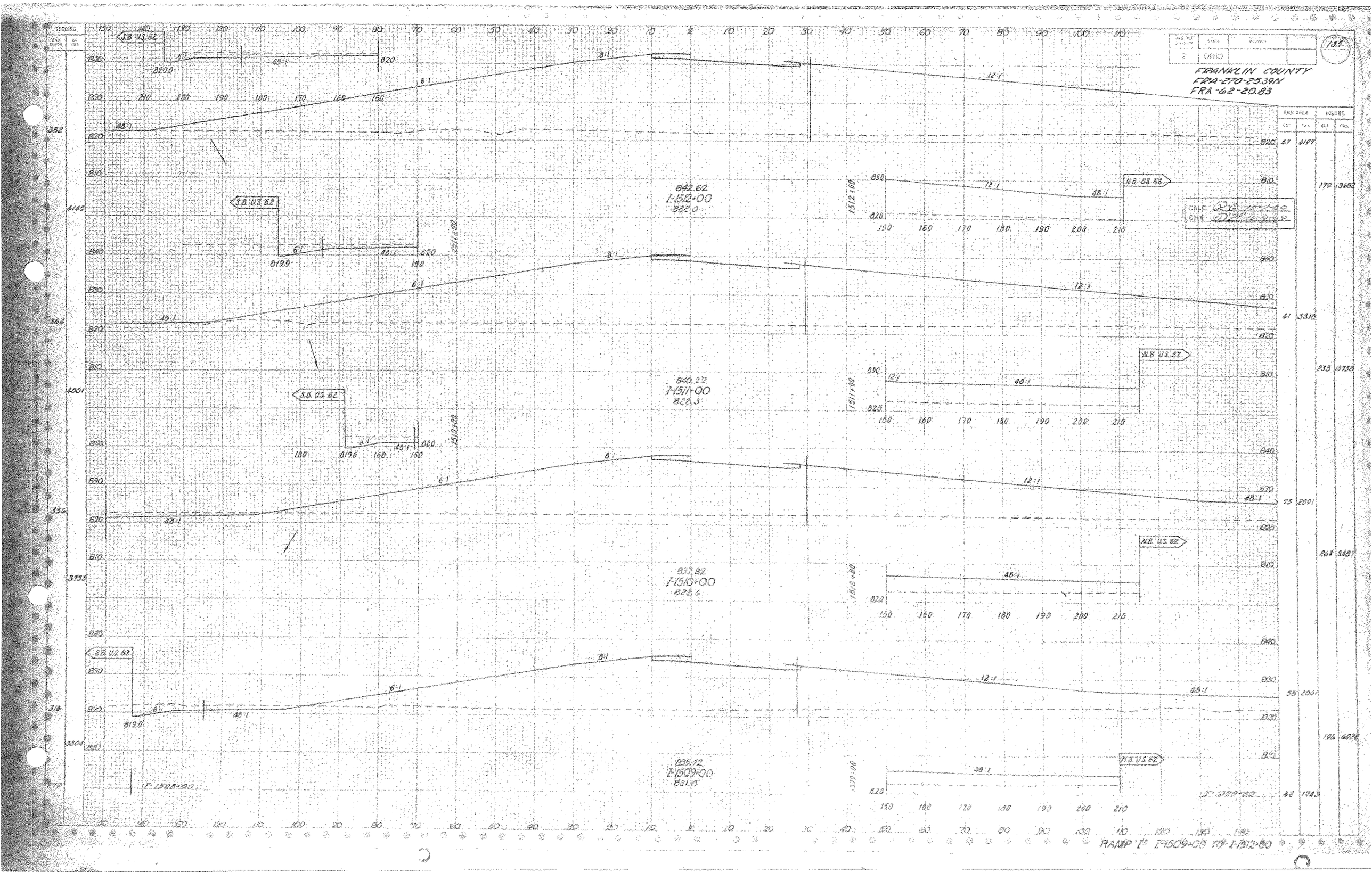
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CALC:
CHK:
Sta 1506+94 Carried From Sheet No. 77
I-270
814+54
H-1506+03
823.6
815.03
H-1505+00
823.7
Match Line
H-1504+00
815.09
H-1504+00
823.0
817.72
H-1503+00
821.6
H-1502+00
RAMP "H" H-1503+00 TO H-1506+00



2
OHIO
135
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
S.B. U.S. 62
N.B. U.S. 62
83' - 6" Type "B" @ 1.40 %
+00, 26' Rt
E = 817.68
823.82
I-1504+00
819.8
822.64
I-1503+00
819.8
822.26
I-1502+00
822.70
I-1501+00
Sta. 1520+18 Carried from Sheet No. 100
RAMP I 1-1501+00 TO I-1504+00



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
2
OHIO
CALC. R.G. 10-7-69
CHK. D.H. 10-9-69
S.B. US 62
N.B. US 62
833.02
I-1508+00
820.9
Structure No. FRA-62-2142
Ramp "I"
Over Reloc. Channel
For Data See Sheet 103
Deduct For Reloc. Channel Bottom
Relocated Channel
Channel
830.62
I-1507+00
820.9
828.22
I-1506+00
819.7
825.82
I-1505+00
819.7
RAMP "I" I-1505+00 TO I-1508+00



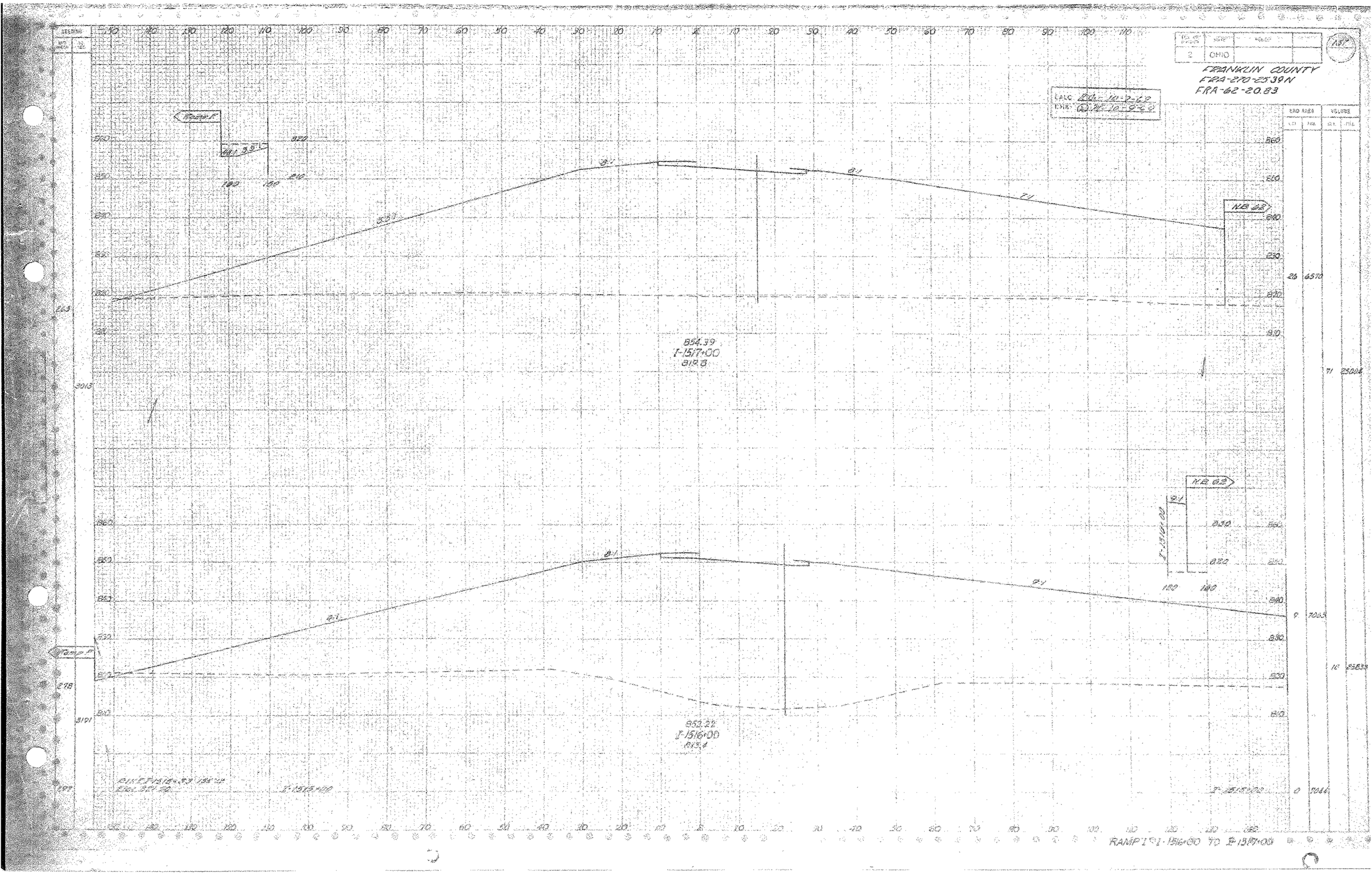
2
OHIO
135
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC
CHK
S.B. U.S. 62
N.B. U.S. 62
842.62
I-1512+00
822.0
840.22
I-1511+00
822.3
837.82
I-1510+00
822.4
835.42
I-1509+00
821.8
I-1508+00
I-1509+00
END AREA
VOLUME
RAMP 'I' I-1509+00 TO I-1512+00

CONTROL	SHEET	TOTAL SHEETS
2	OHIO	

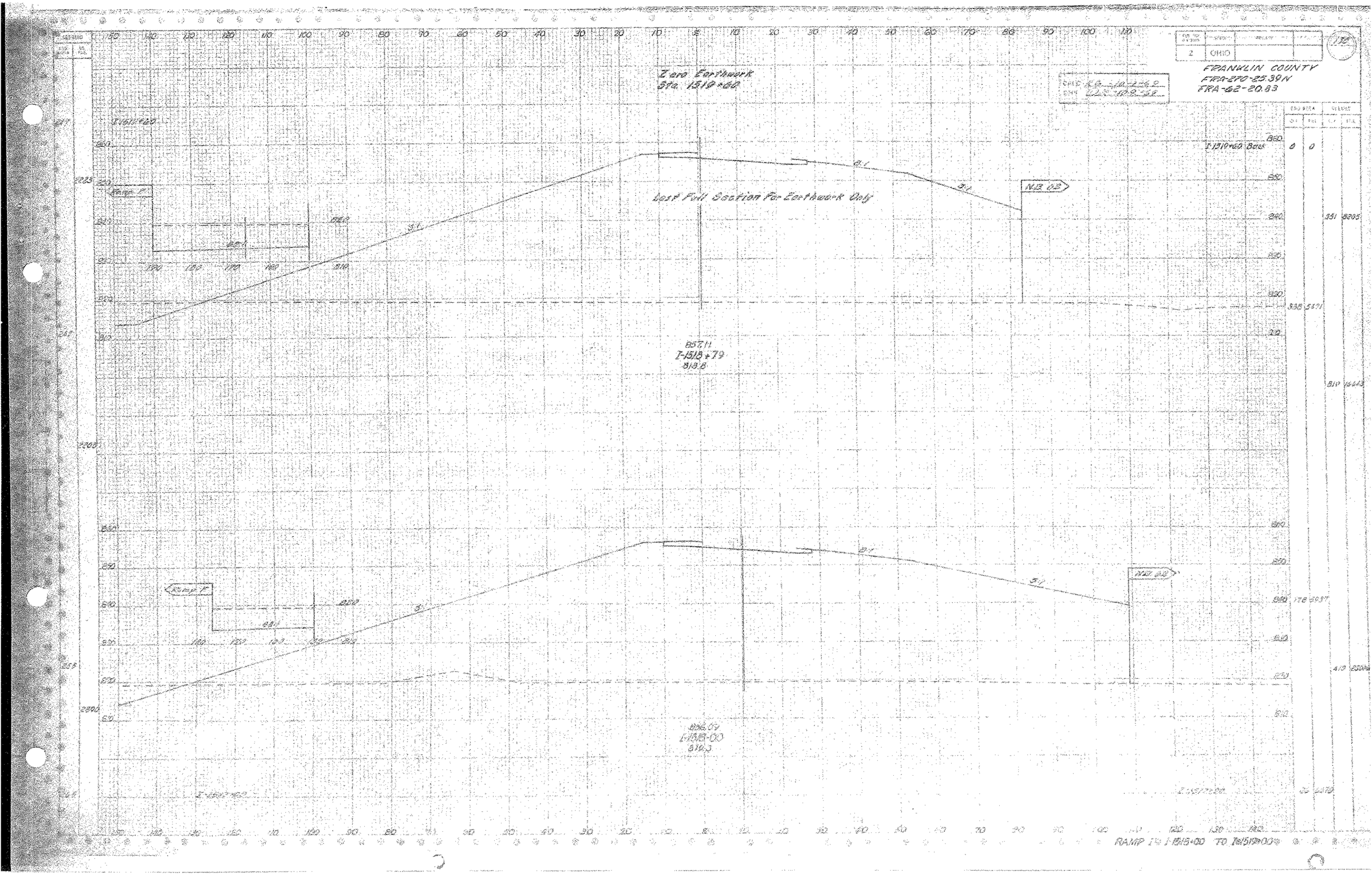
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC 2K - 12-2-69
CHK 2K - 12-2-69

STATION		SND AREA		VOLUMES	
		CUT	FILL	CUT	FILL
3650					
3700					
3750					
3800					
3850					



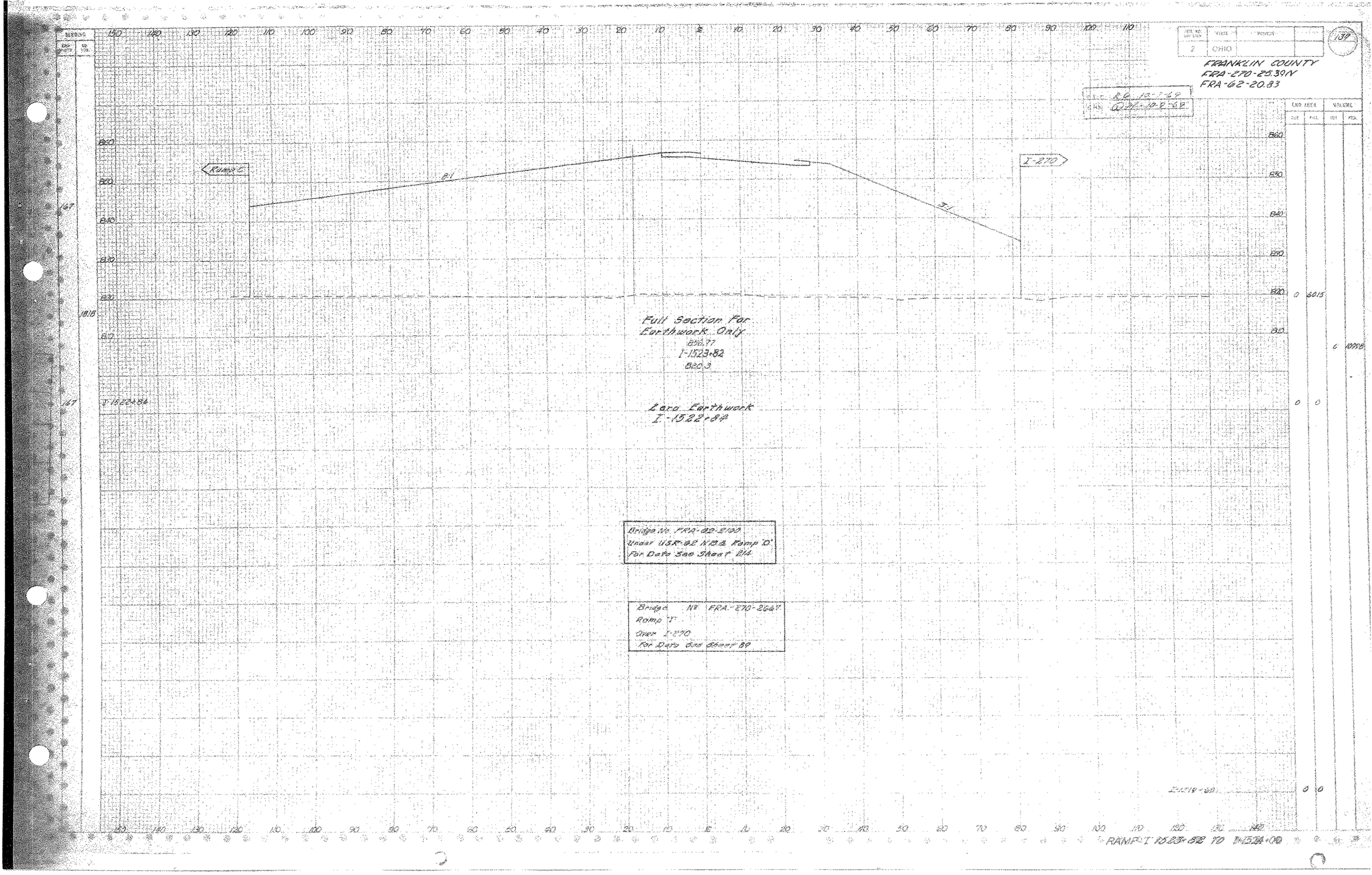
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC
CHK
Ramp F
N.B. 62
854.39
I-1517+00
819.8
853.22
I-1516+00
815.4
26
6570
71
25004
9
7063
10
25833
0
7044
RAMP I-1516+00 TO I-1517+00



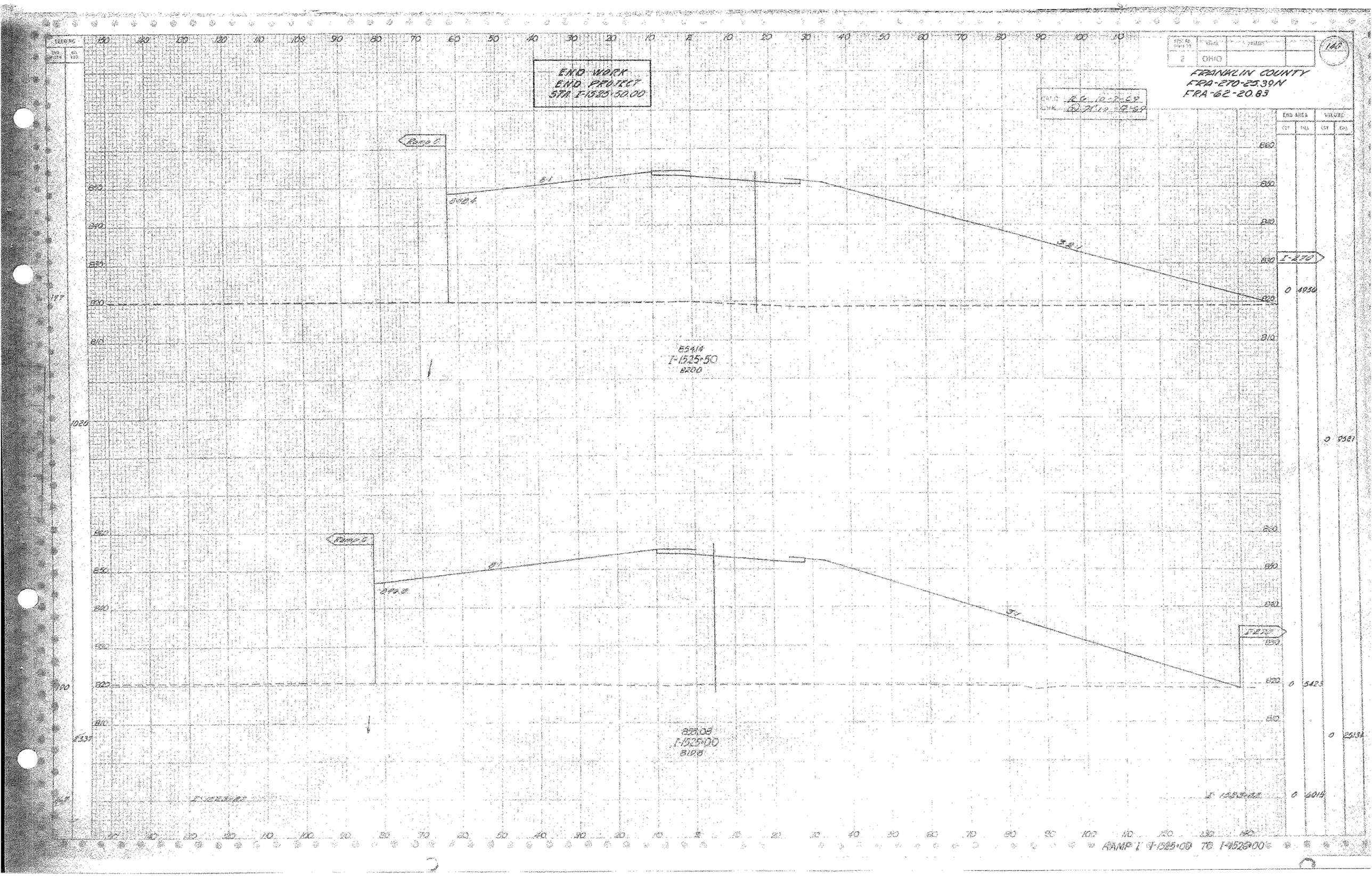
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

0	0		
		351	8205
338	5471		
		810	16643
178	5937		
		410	23006



2
OHIO
139
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
Ramp C
I-270
Full Section For
Earthwork Only
856.77
I-1523+82
820.3
Zero Earthwork
I-1522+84
Bridge No. FRA-62-2100
Under USR-62 N.B.&. Ramp "D"
For Data See Sheet 214
Bridge No. FRA-270-2667
Ramp "I"
Over I-270
For Data See Sheet 89
RAMP "I" 1523+82 TO I-1524+00



END WORK
END PROJECT
STA I-1525+50.00
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
OHIO
Ramp C
I-270
I-1525+50
I-1525+00
RAMP I I-1525+00 TO I-1526+00

RAMP 'N' COUNTY
FAS-2202-2(B)61N
FAP-412-2(B)83

STA. "U"-1109+56.4 PI STA "U"-1112+00

RAMP "U" STA "U"-1109+56.4

U-1109+56.4 PI
Ahead
Back
Δ 28°-00'-00" (RT)
D 10°-00'-00"
R 573.00'
T 143.24'
L 280.00'
E 17.48'
M 17.21'
Chord 277.13'
Chord Brg. S 14°-00'-00" E
PC STA. U-1107+13.16
PT STA. U-1110+93.16

U-1109+44.16
PI STA. U-1109+56.4
Ahead
Back
Δ 28°-00'-00" (RT)
D 10°-00'-00"
R 573.00'
T 143.24'
L 280.00'
E 17.48'
M 17.21'
Chord 277.13'
Chord Brg. S 14°-00'-00" E
PC STA. U-1107+13.16
PT STA. U-1110+93.16

U-1109+44.16, 30' Lt.
Monitor Well Top of Pipe Elev. 813.26
Invert Elev. 811.42
Ø Grate 1.80'
Ø Grate 1.80'
Ø Pipe 0.60'

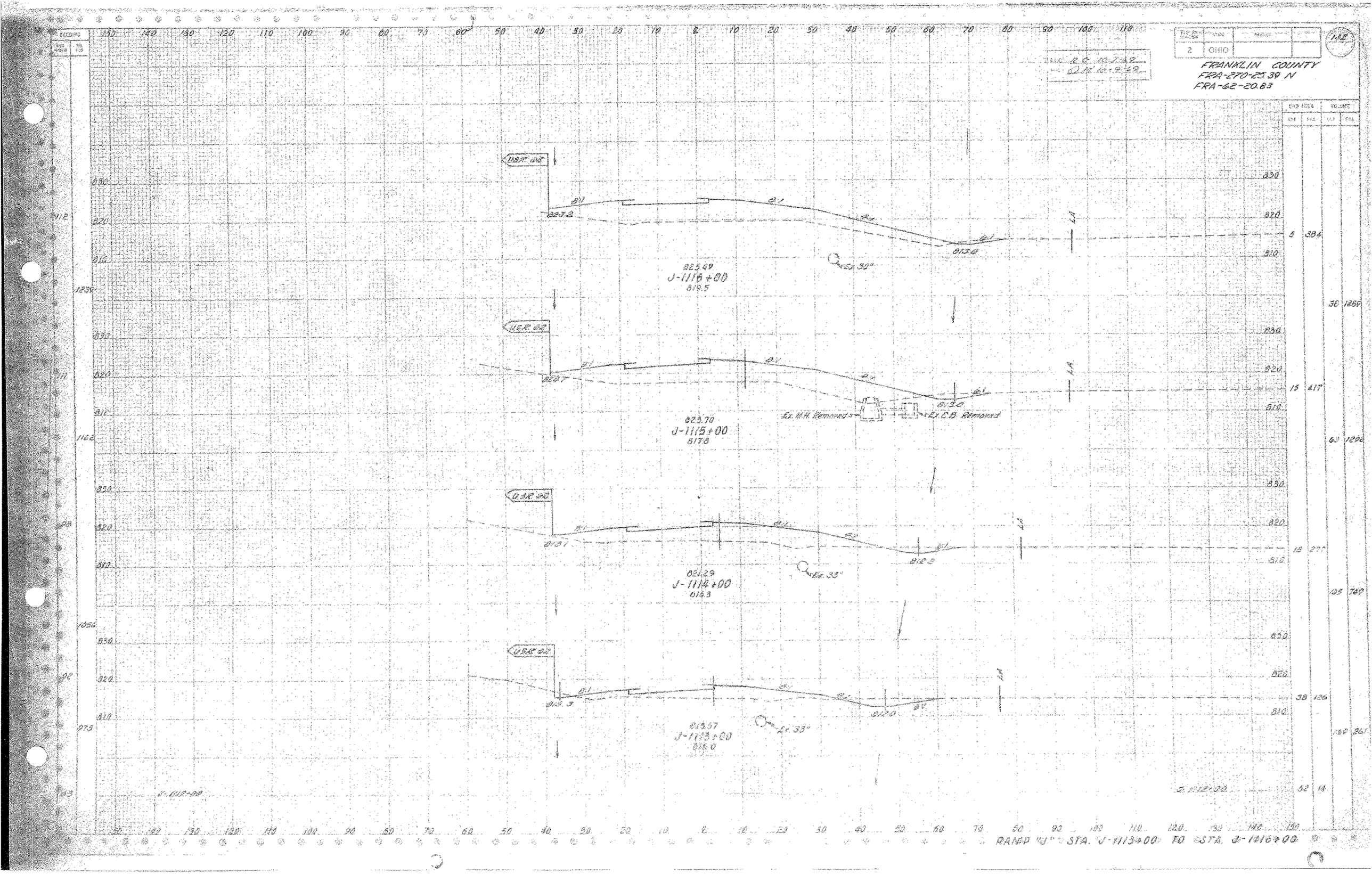
U-1109+44.16, 28' Rt.
No. 3 C.B.
Ø Grate 1.80' x 1.80'
Ø Pipe 0.60'

U-1109+44.16
PI STA. U-1109+56.4
Ahead
Back
Δ 28°-00'-00" (RT)
D 10°-00'-00"
R 573.00'
T 143.24'
L 280.00'
E 17.48'
M 17.21'
Chord 277.13'
Chord Brg. S 14°-00'-00" E
PC STA. U-1107+13.16
PT STA. U-1110+93.16

U-1109+44.16
PI STA. U-1109+56.4
Ahead
Back
Δ 28°-00'-00" (RT)
D 10°-00'-00"
R 573.00'
T 143.24'
L 280.00'
E 17.48'
M 17.21'
Chord 277.13'
Chord Brg. S 14°-00'-00" E
PC STA. U-1107+13.16
PT STA. U-1110+93.16

U-1109+44.16, 30' Lt.
Monitor Well Top of Pipe Elev. 813.26
Invert Elev. 811.42
Ø Grate 1.80'
Ø Grate 1.80'
Ø Pipe 0.60'

U-1109+44.16, 28' Rt.
No. 3 C.B.
Ø Grate 1.80' x 1.80'
Ø Pipe 0.60'

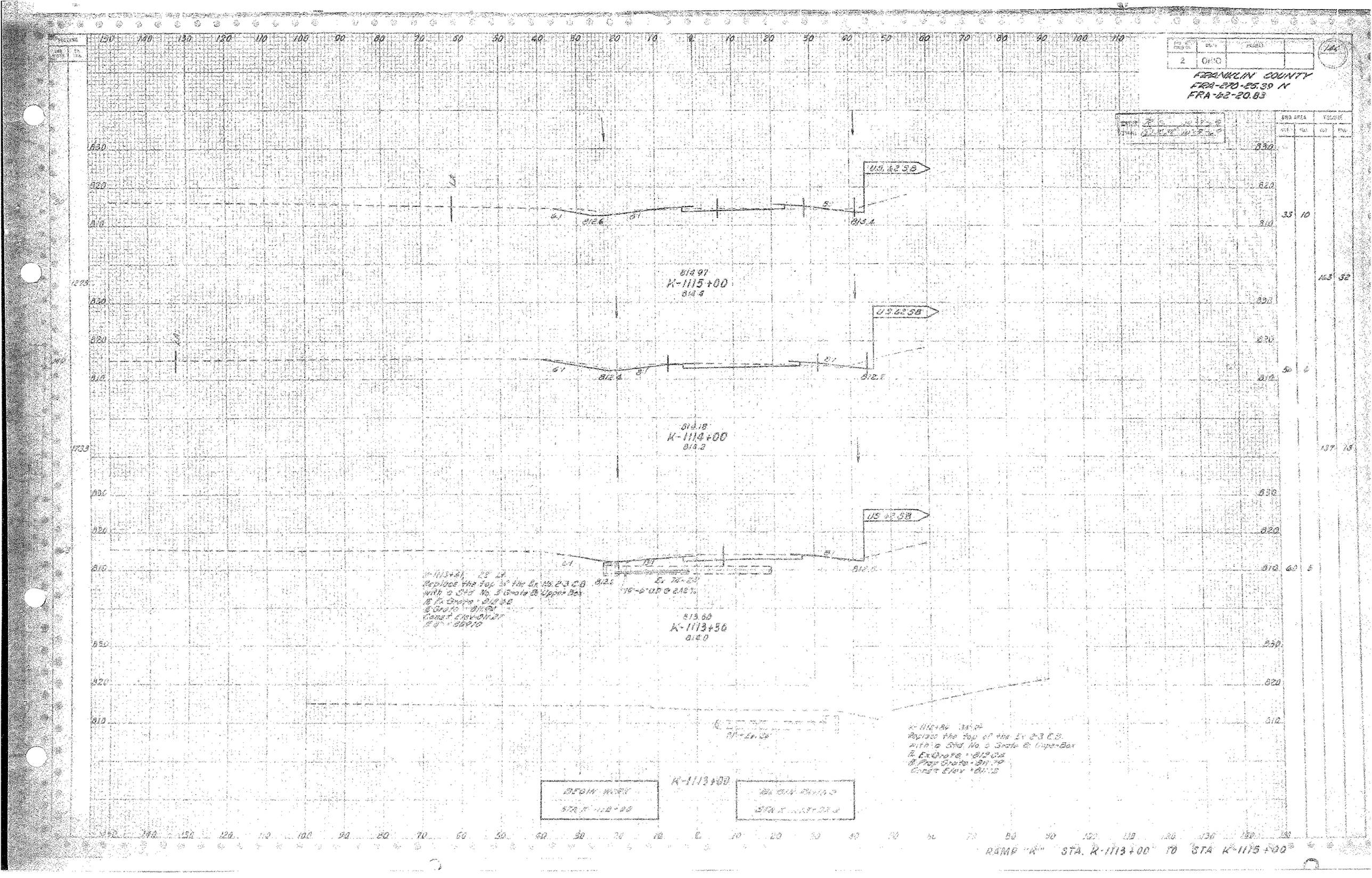


2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
U.S.R. 62
825.49
J-1116+00
819.5
Ex. 30"
823.70
J-1115+00
817.8
Ex. M.H. Removed
Ex. C.B. Removed
821.29
J-1114+00
816.3
Ex. 33"
818.57
J-1113+00
816.0
Ex. 33"
5 384
15 417
38 126
52 14
RAMP "J" STA. J-1113+00 TO STA. J-1116+00

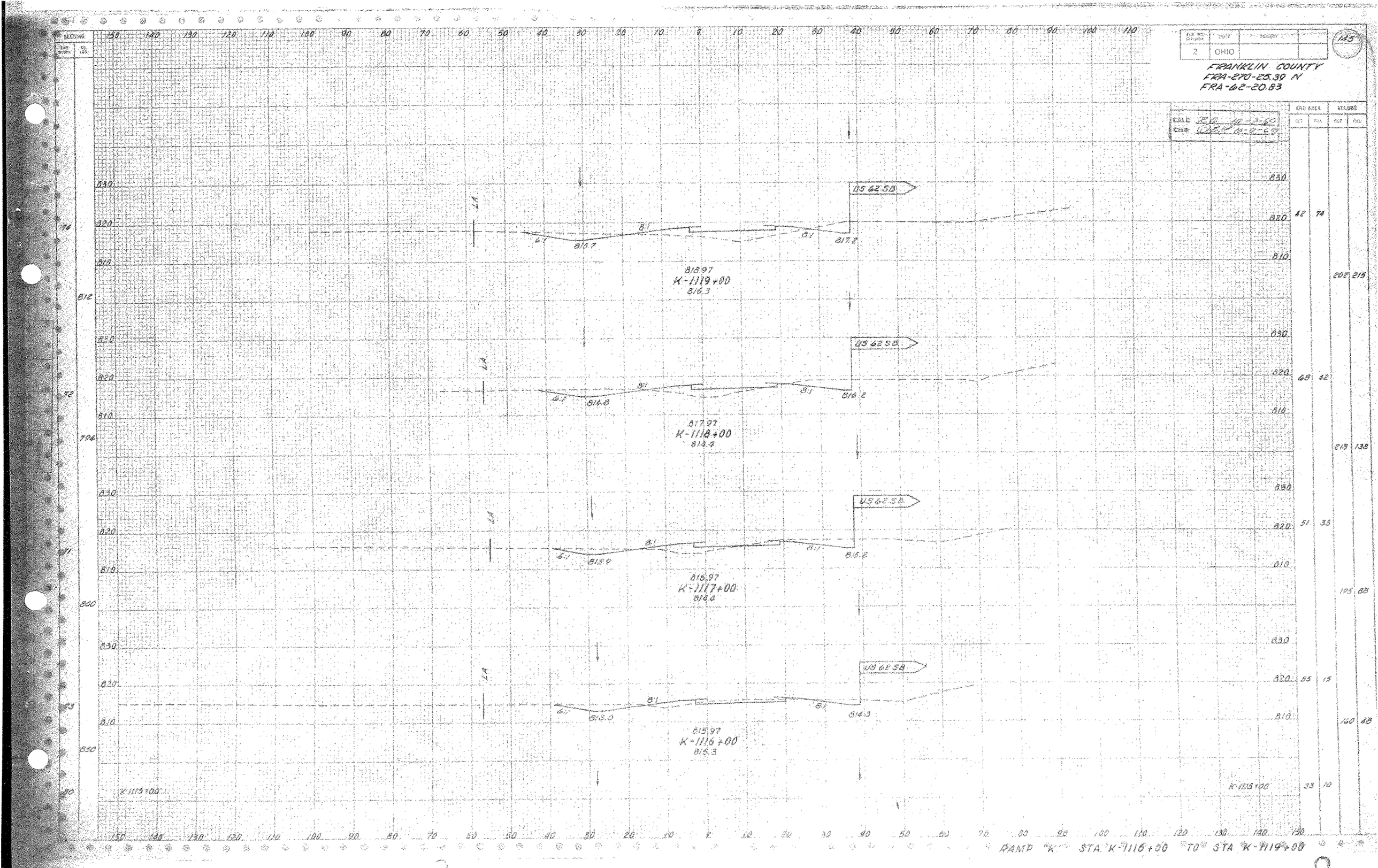
OHIO

FRANKLIN COUNTY
FRA-270-29.39N
FRA-62-20.83

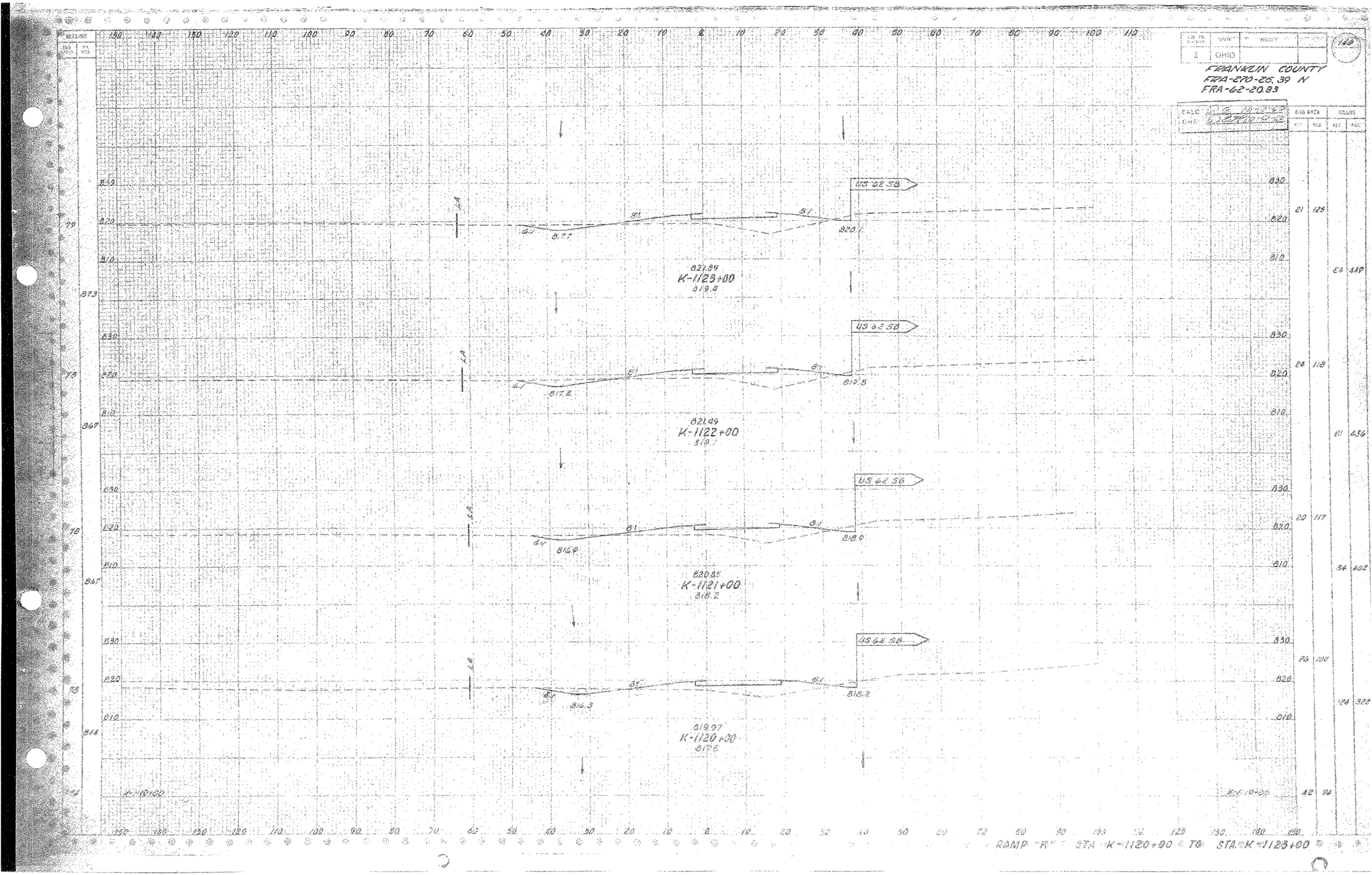
RAMP "J" STA. J-1117+00 TO STA. J-1118+00



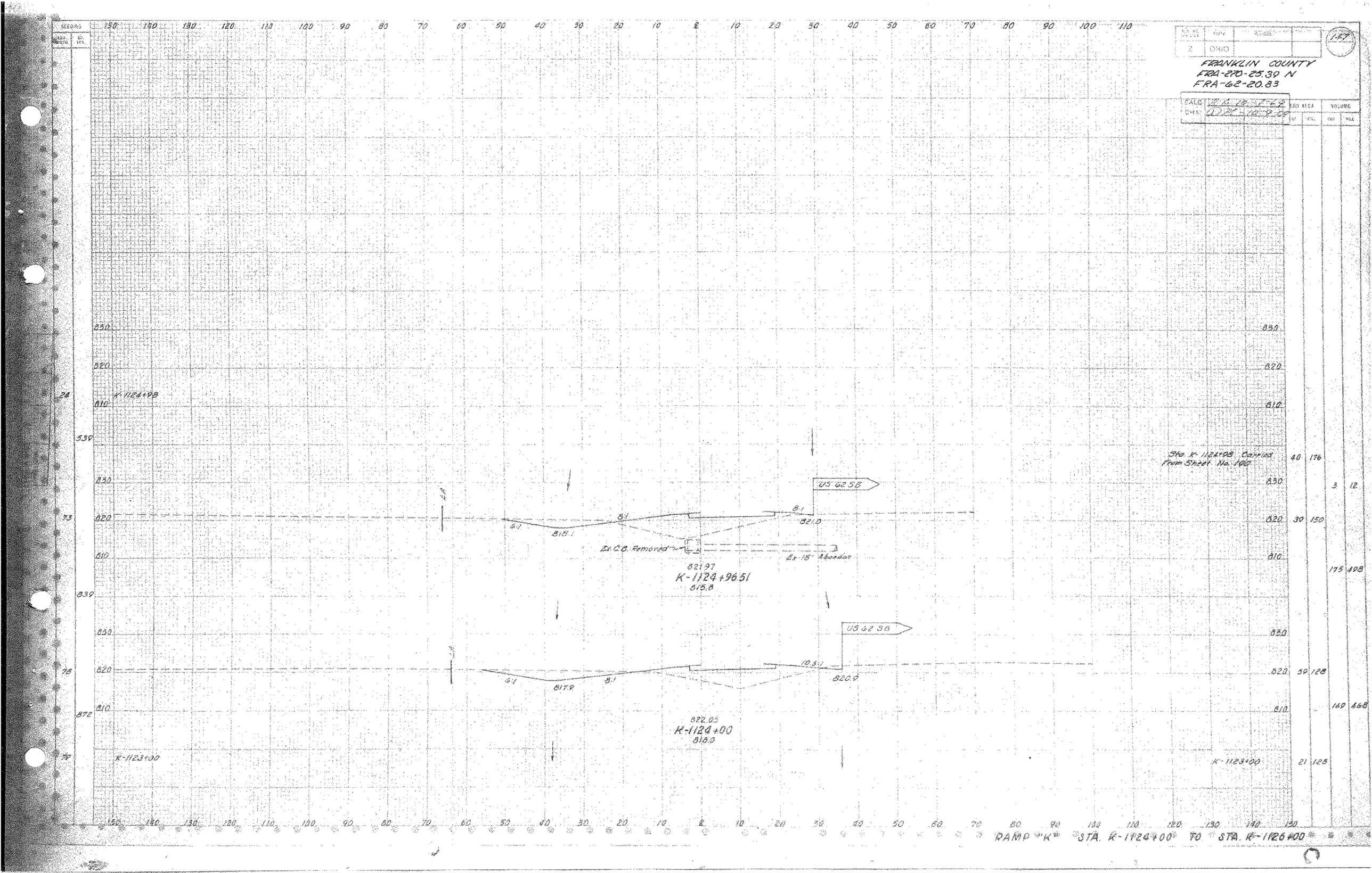
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
U.S. 62 SB
814.97
K-1115+00
814.4
U.S. 62 SB
814.18
K-1114+00
814.2
U.S. 62 SB
813.60
K-1113+50
814.0
K-1113+00
BEGIN WORK
RAMP "K" STA. K-1113+00 TO STA K-1115+00



2
OHIO
145
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
US 62 SB
LA
8:1
6:1
813.7
817.2
818.97
K-1119+00
816.3
814.8
816.2
817.97
K-1118+00
814.4
813.9
815.2
816.97
K-1117+00
814.4
813.0
814.3
815.97
K-1116+00
815.3
K-1115+00
END AREA
VOLUME
42 74
202 215
68 42
218 138
51 33
195 88
55 15
160 48
33 10
RAMP "K" STA. K-1116+00 TO STA. K-1119+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
2
OHIO
US 62 SB
821.89
K-1123+00
819.4
821.49
K-1122+00
819.1
820.85
K-1121+00
818.2
819.97
K-1120+00
819.5
RAMP "R" STA K-1120+00 TO STA K-1123+00



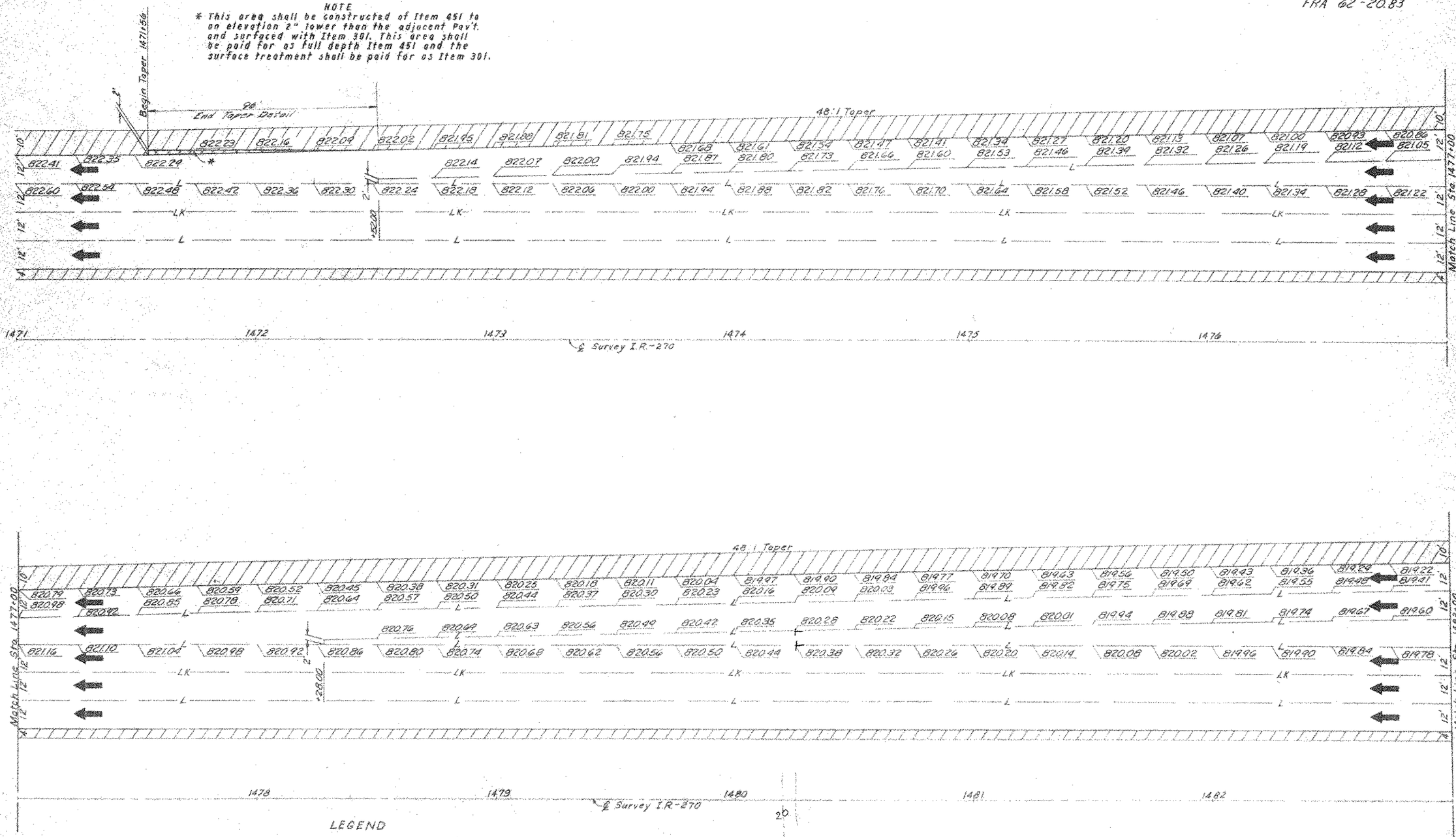
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
Z
OHIO
147
K-1124+98
US 62 SB
Ex. C.B. Removed
Ex. 18" Abandon
821.97
K-1124+96.51
815.8
US 62 SB
822.05
K-1124+00
818.0
K-1123+00
Sta. K-1124+98 Carried From Sheet No. 100
RAMP "K" STA. K-1124+00 TO STA. K-1126+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

148

FRANKLIN COUNTY
FRA 270-25.39 N
FRA 62-20.83

NOTE
* This area shall be constructed of Item 451 to an elevation 2" lower than the adjacent Pav't. and surfaced with Item 301. This area shall be paid for as full depth Item 451 and the surface treatment shall be paid for as Item 301.

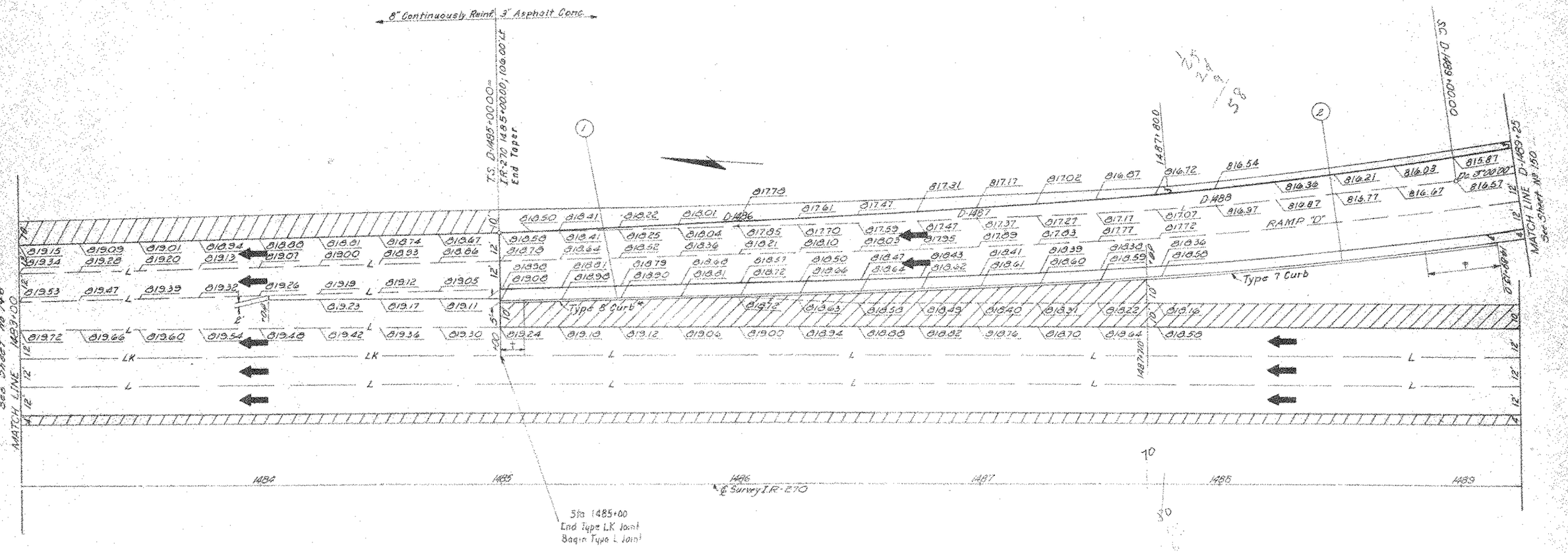


PAVEMENT DETAILS
IR-270 1471+00 to 1483+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

149

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83



LEGEND

- L — Standard longitudinal joint
- LK — Standard longitudinal key joint without tie bars or hook bolts.
- 409 on 3" bituminous aggregate base
- Bituminous aggregate base

NOTES

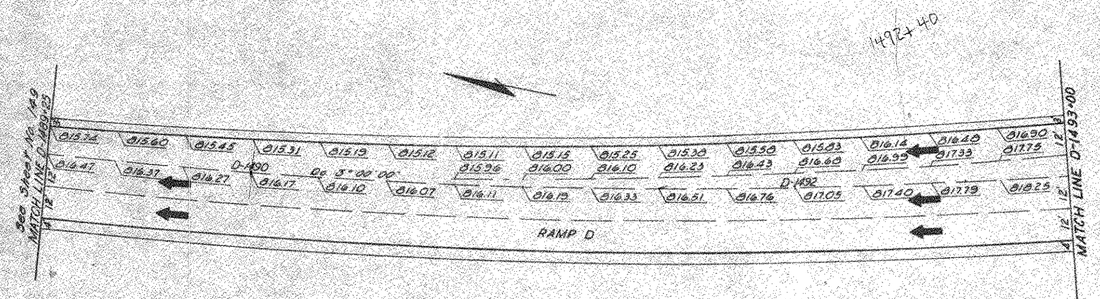
1. Paved shoulder along the type 8 curb is at the same elevation as the paved shoulder along the ramp
2. For pavement elevations not shown see super elevation tables
3. For Curb Quantities See Sheet No 149
4. + Transition Curb From 2 3/4 # to 10'
5. ℄ Transition Curb From # To 0" In 30'

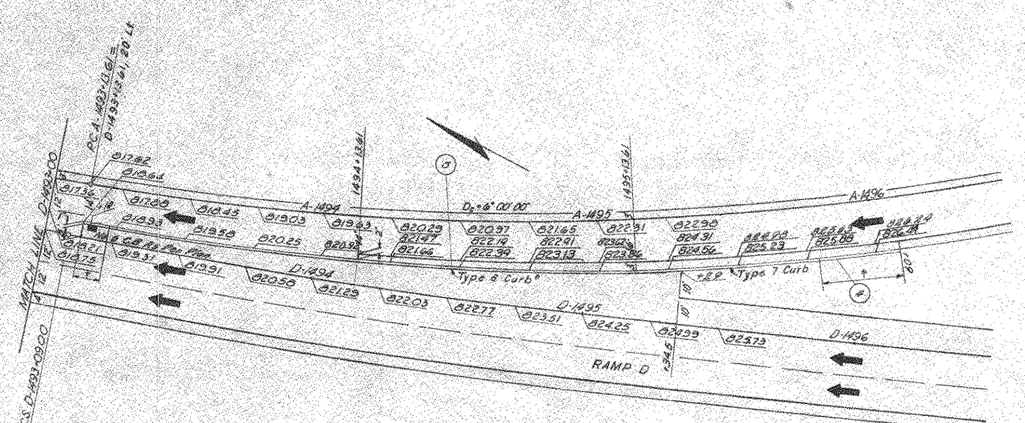
PAVEMENT DETAILS
RAMP "D" & I.R-270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

150

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83





LEGEND

409 on 3" bituminous aggregate base

NOTES

1. Paved shoulder along the type 8 curb is at the same elevation as the paved shoulder along the ramp.
2. For pavement elevations not shown see super elevation tables.
3. For Curb Quantities See Sheet No. 169
4. Transition Curb From 2" To 9" In 10'
5. Transition Curb From 9" To 0" In 30'

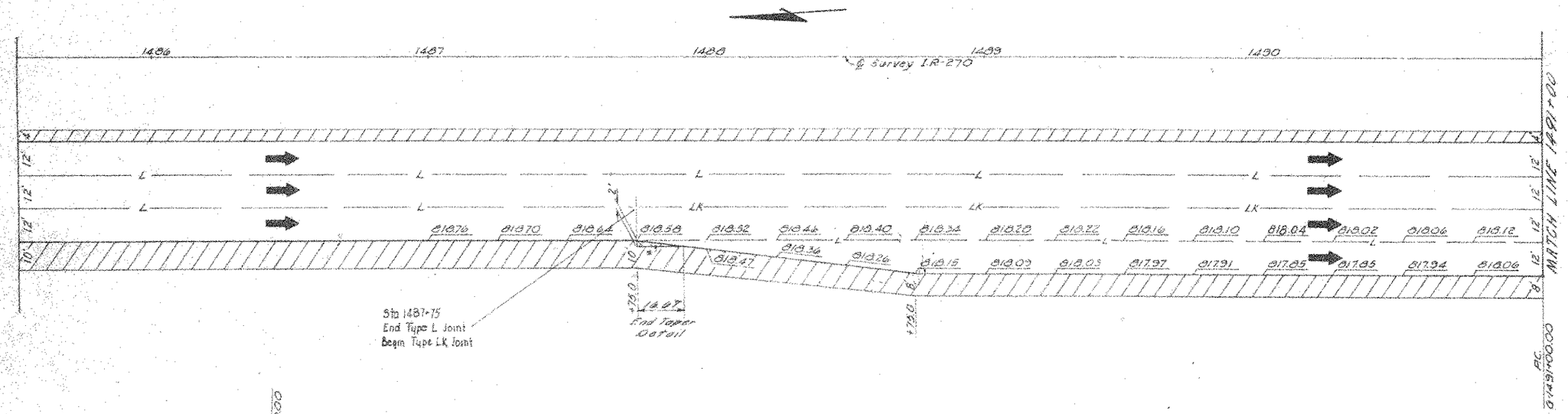
PAVEMENT DETAILS

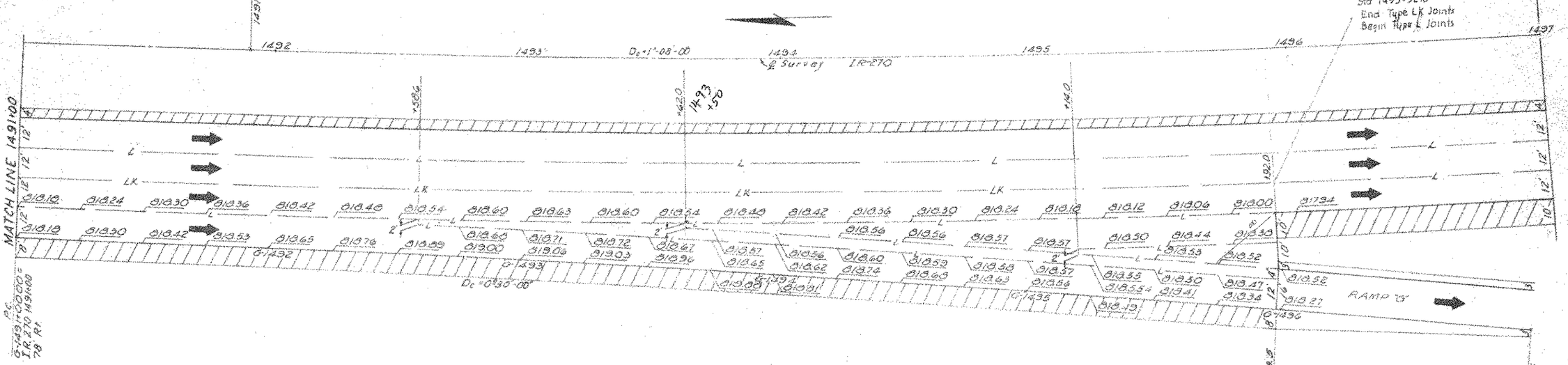
RAMP "A" & RAMP "D"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

151

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83





LEGEND

——L—— Standard longitudinal joint
——LK—— Standard longitudinal key joint without tie bars or hook bolts
bituminous aggregate base
409 on 3" bituminous aggregate base

NOTES

1. For pavement elevations not shown see super elevation tables.

* This area shall be constructed of Item 451 to an elevation 2" lower than the adjacent Pav't. and surfaced with Item 301. This area shall be paid for as full depth Item 451 and the surface treatment shall be paid for as Item 301.

PAVEMENT DETAILS

RAMP "G" & I.R-270

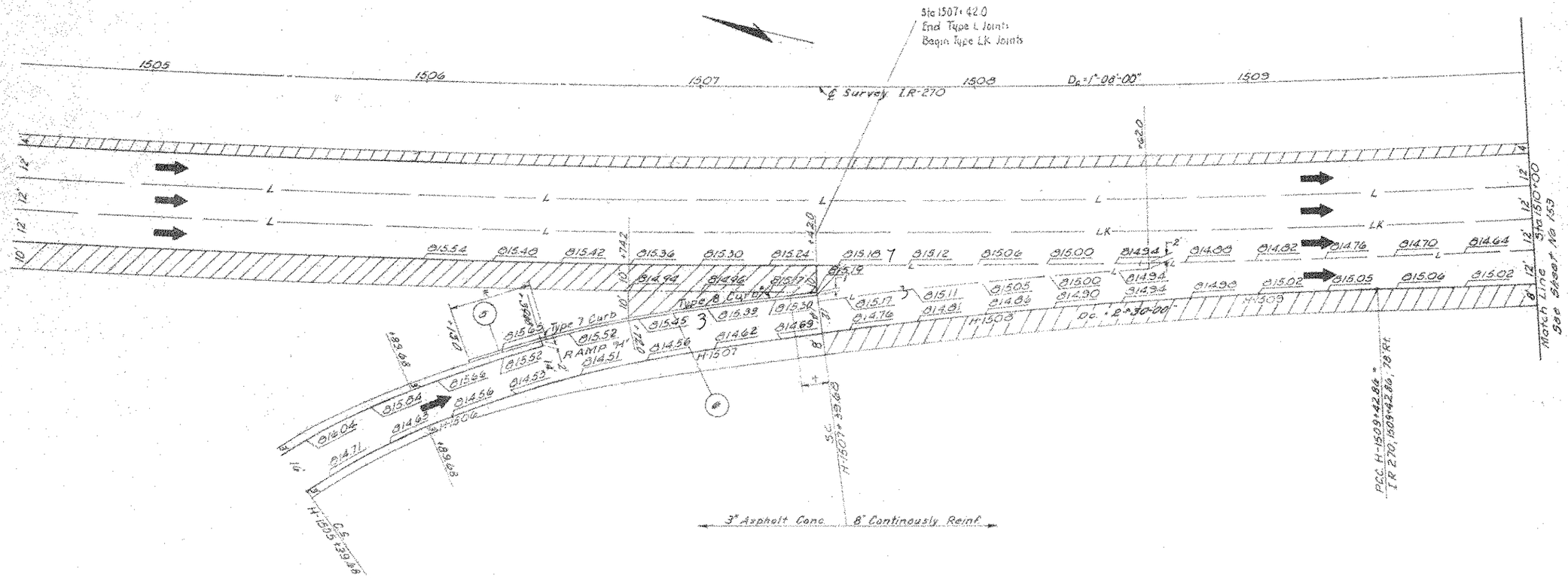
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

152

FRANKLIN COUNTY
FRA-270-25.39N.
FRA-62-20.83

1508+60
1506+60
2+00

1506+60
80
1505+80



LEGEND

- L — Standard longitudinal joint
- LK — Standard longitudinal key joint without tie bars or hook bolts
- bituminous aggregate base
- 409 on 3" bituminous aggregate base

NOTES

1. Paved shoulder along the type B curb is at the same elevation as the pavement along the ramp.
2. For pavement elevations not shown see super elevation tables.
3. For Curb Quantities See Sheet No 169
4. Transition Curb From 9"to 2" In 12'
5. Transition Curb From 9"to 0" In 30.

PAVEMENT DETAILS
RAMP "H" & I.R. 270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

153

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND

——— L ——— Standard longitudinal joint

——— LK ——— Standard longitudinal key joint without tie bars or hook bolts

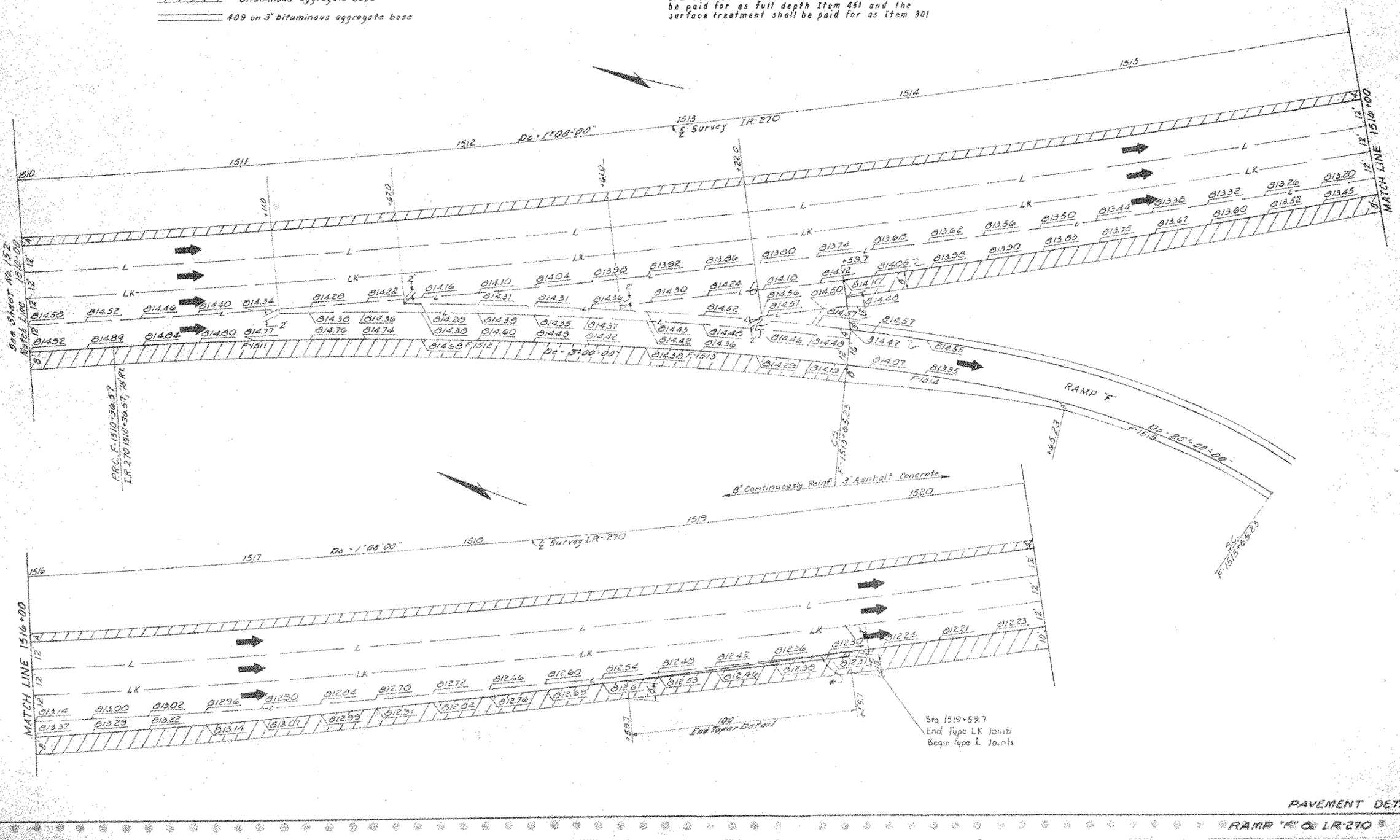
bituminous aggregate base

409 on 3" bituminous aggregate base

NOTES

1. For pavement elevations, not shown see super elevation tables.

* This area shall be constructed of Item 451 to an elevation 2" lower than the adjacent Pav't. and surfaced with Item 301. This area shall be paid for as full depth Item 451 and the surface treatment shall be paid for as Item 301



PAVEMENT DETAILS

RAMP "F" & I.R-270

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

154

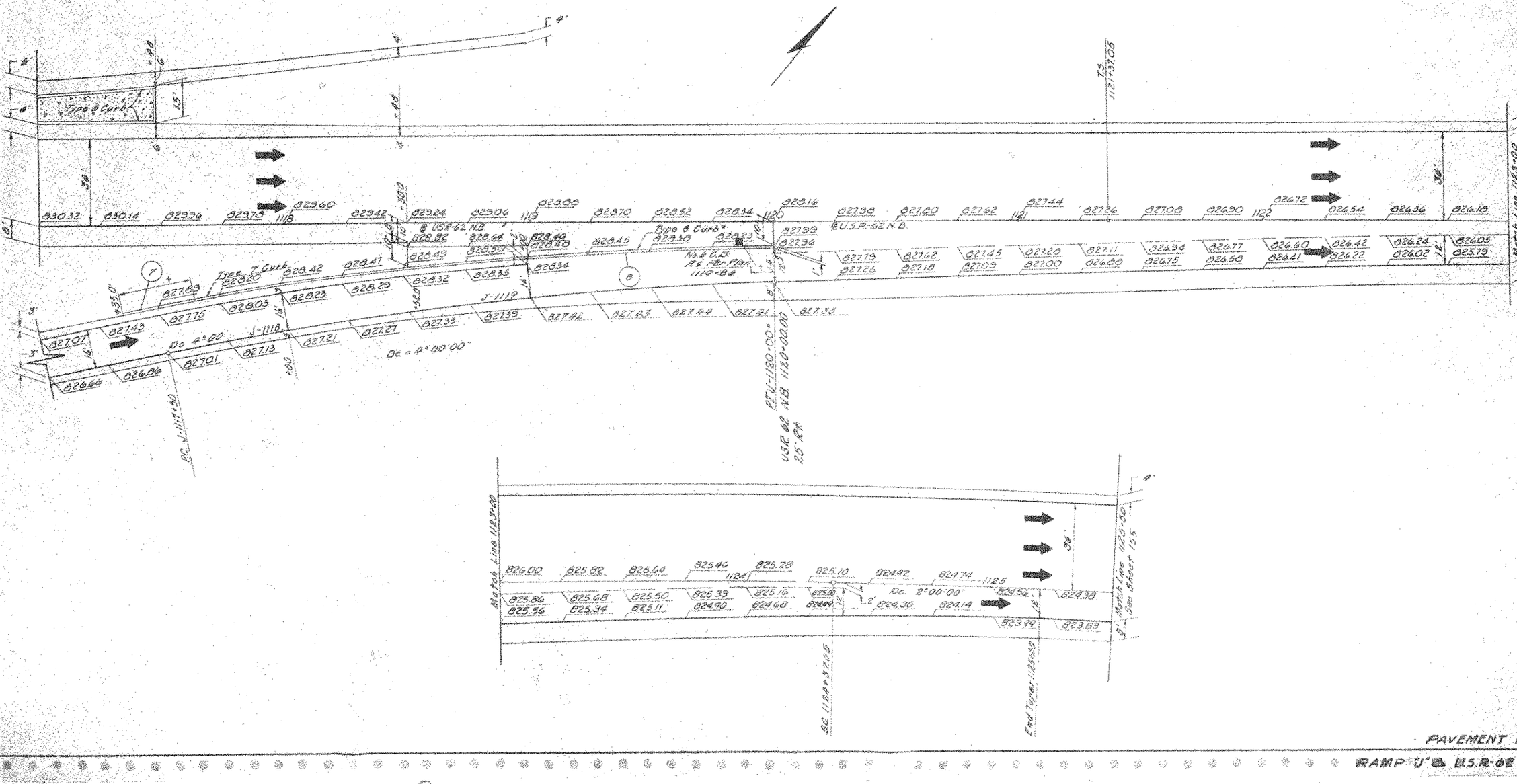
FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND

- Item 409-Bituminous Seal Coat On
- Item 301-Bituminous Aggregate Base
- Item 612 - Concrete Median

Notes

1. *Paved Shoulder Along The Type B Curb Is At The Same Elevation As The Paved Shoulder or Pavement along The Ramp
2. For Pavement Elevations Not Shown See Superelevation Tables.
3. For Curb Quantities See Sheet No. 169
4. * Transition Curb From 9" To 8" In 18'
5. * Transition Curb From 9" To 0" In 30'



PAVEMENT DETAILS

RAMP "U" & U.S.R-62 NB

LEGEND

Item 409 Bituminous Seal Coat Or
Item 301 Bituminous Aggregate Base

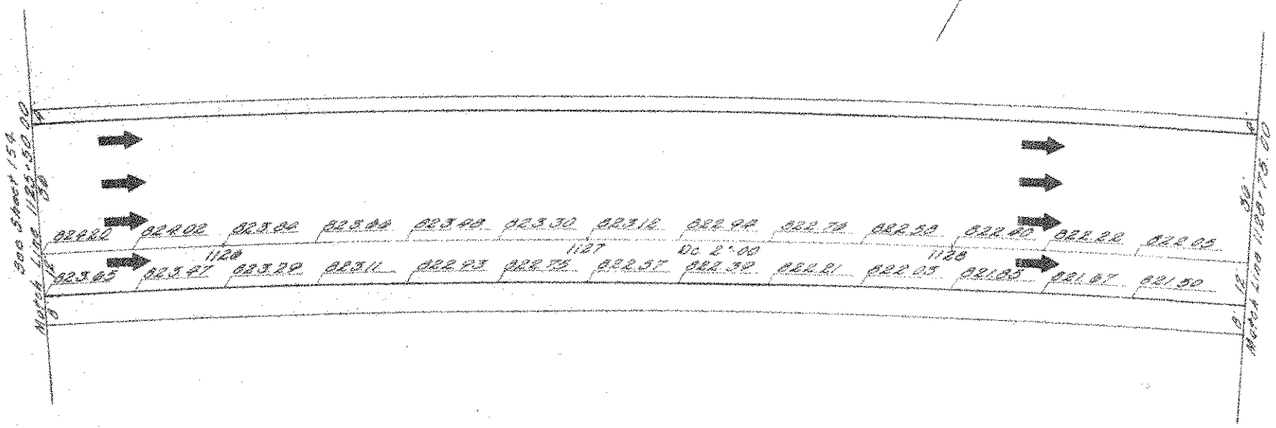
NOTES

1 For Pavement Elevations Not Shown
See Super Elevation Tables

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

155

FRANKLIN COUNTY
FRA. - 270 - 25.39N
FRA. - 62 - 20.83



PAVEMENT DETAILS
USR 62 N.B.

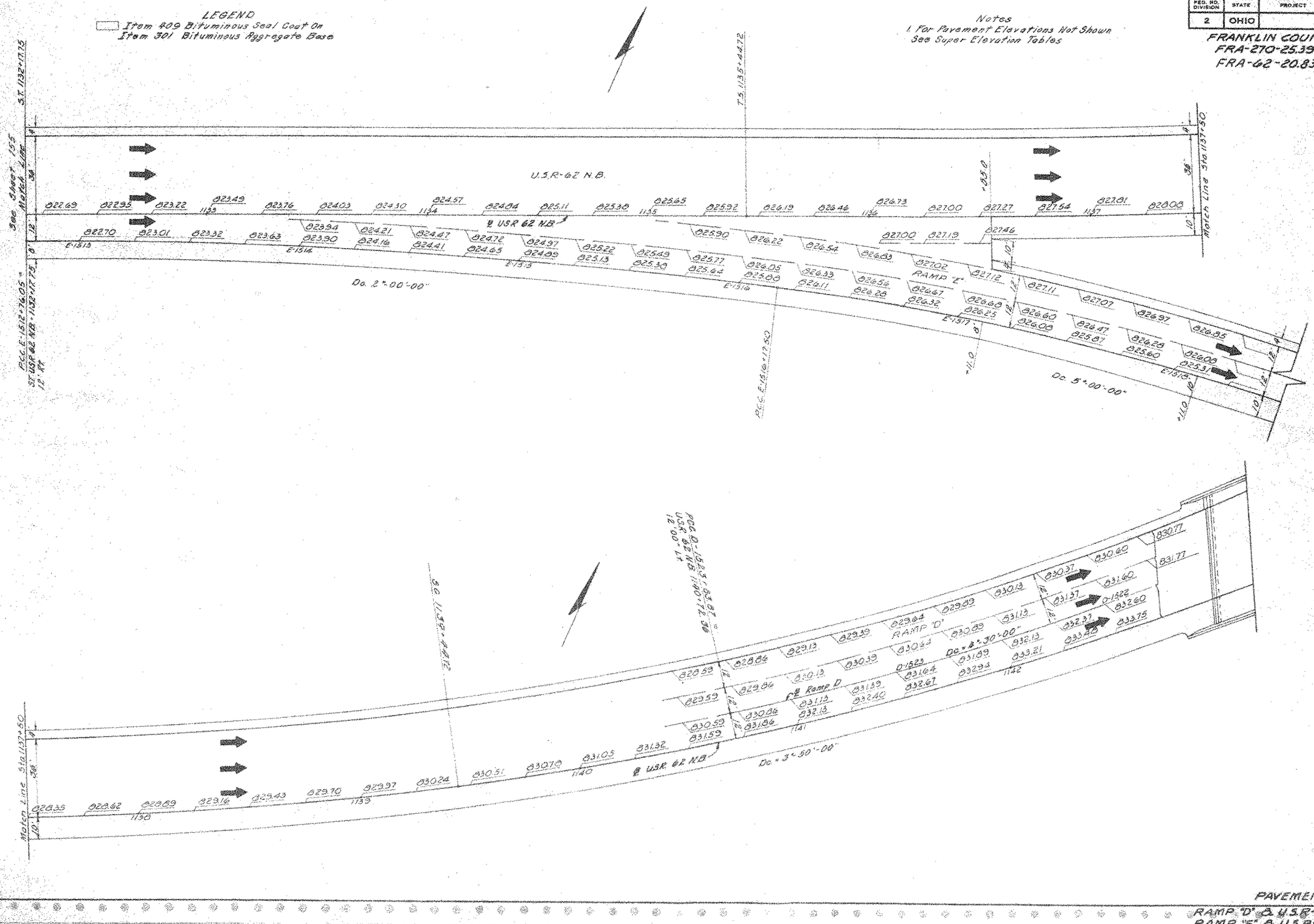
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

156

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND
Item 409 Bituminous Seal Coat On
Item 301 Bituminous Aggregate Base

Notes
1. For Pavement Elevations Not Shown See Super Elevation Tables



PAVEMENT DETAILS
RAMP "D" & U.S.R-62 N.B.
RAMP "E" & U.S.R-62 N.B.

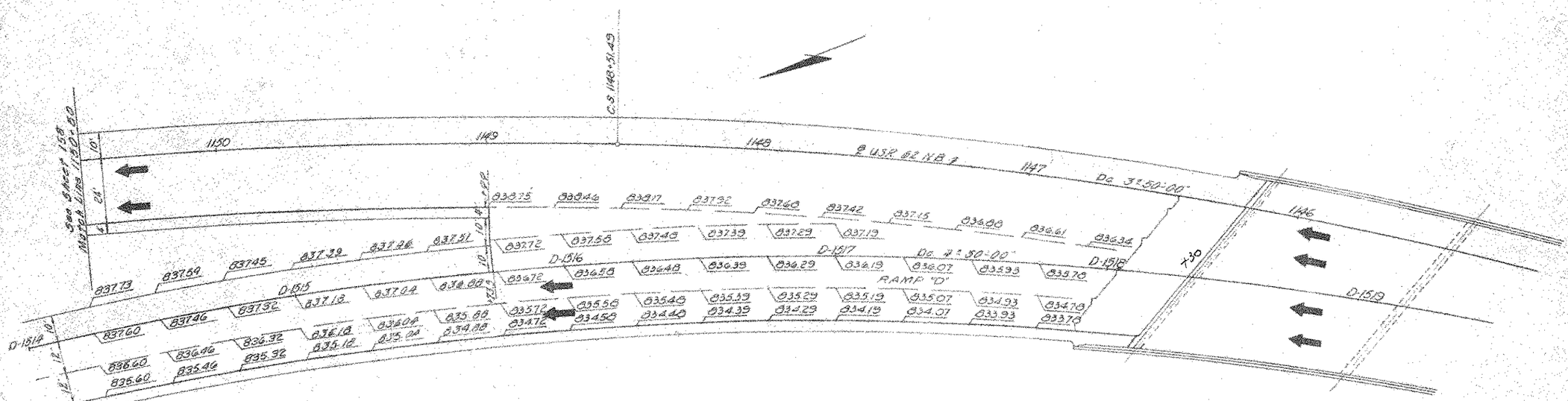
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

157

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND
Item 409 Bituminous Seal Coat or
Item 301 Bituminous Aggregate Base

Notes
1 For Pavement Elevations Not Shown
See Super Elevation Tables



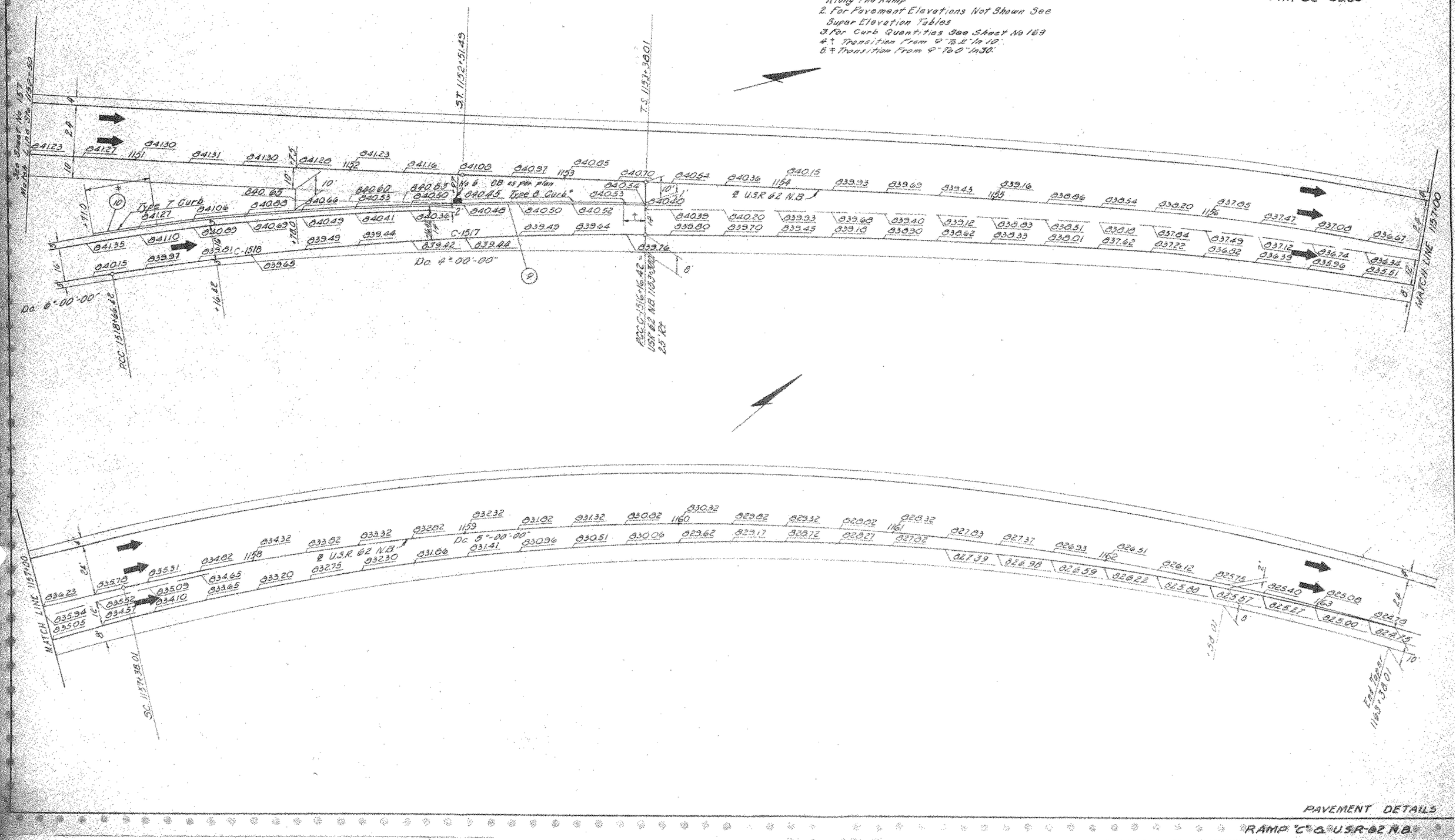
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

158

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND
Item 409 Bituminous Seal Coat On
Item 301 Bituminous Aggregate Base

Notes
1.* Paved Shoulder Along The Type B Curb Is At The Same Elevation As The Paved Shoulder or Pavement Along The Ramp
2. For Pavement Elevations Not Shown See Super Elevation Tables
3 For Curb Quantities See Sheet No 169
4 † Transition From 9" To 8" In 10'
6 * Transition From 9" To 0" In 30'

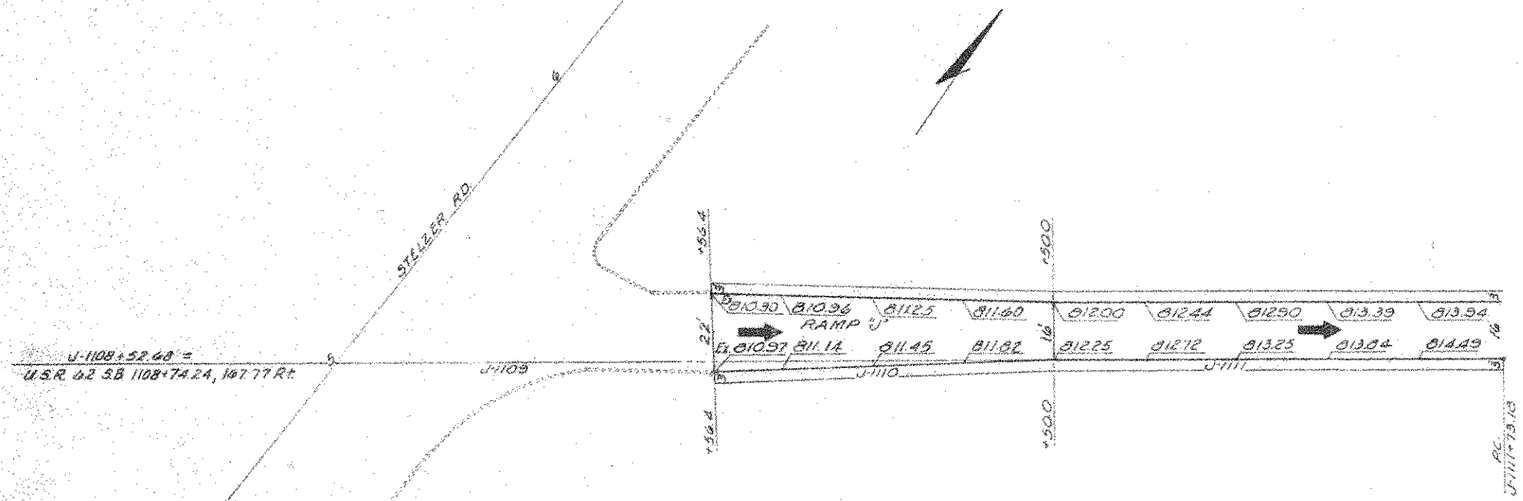


PAVEMENT DETAILS
RAMP "C" & USR-62 N.B.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

159

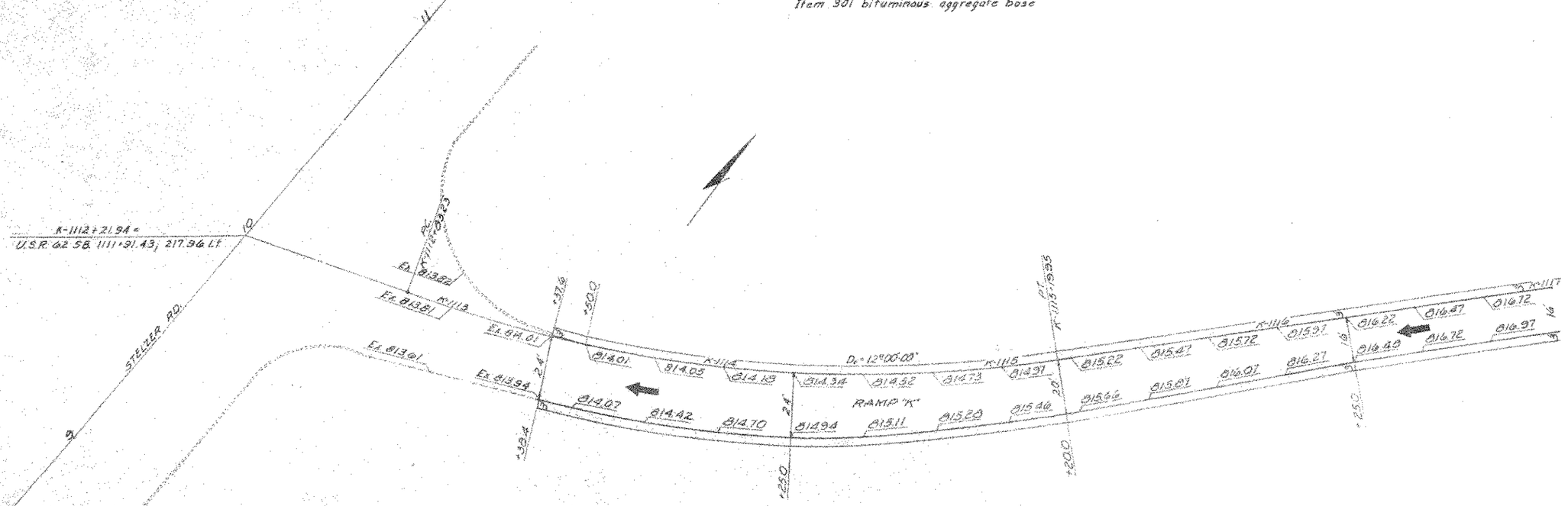
FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83



RAMP J

LEGEND

Item 409 bituminous seal coat on
Item 301 bituminous aggregate base



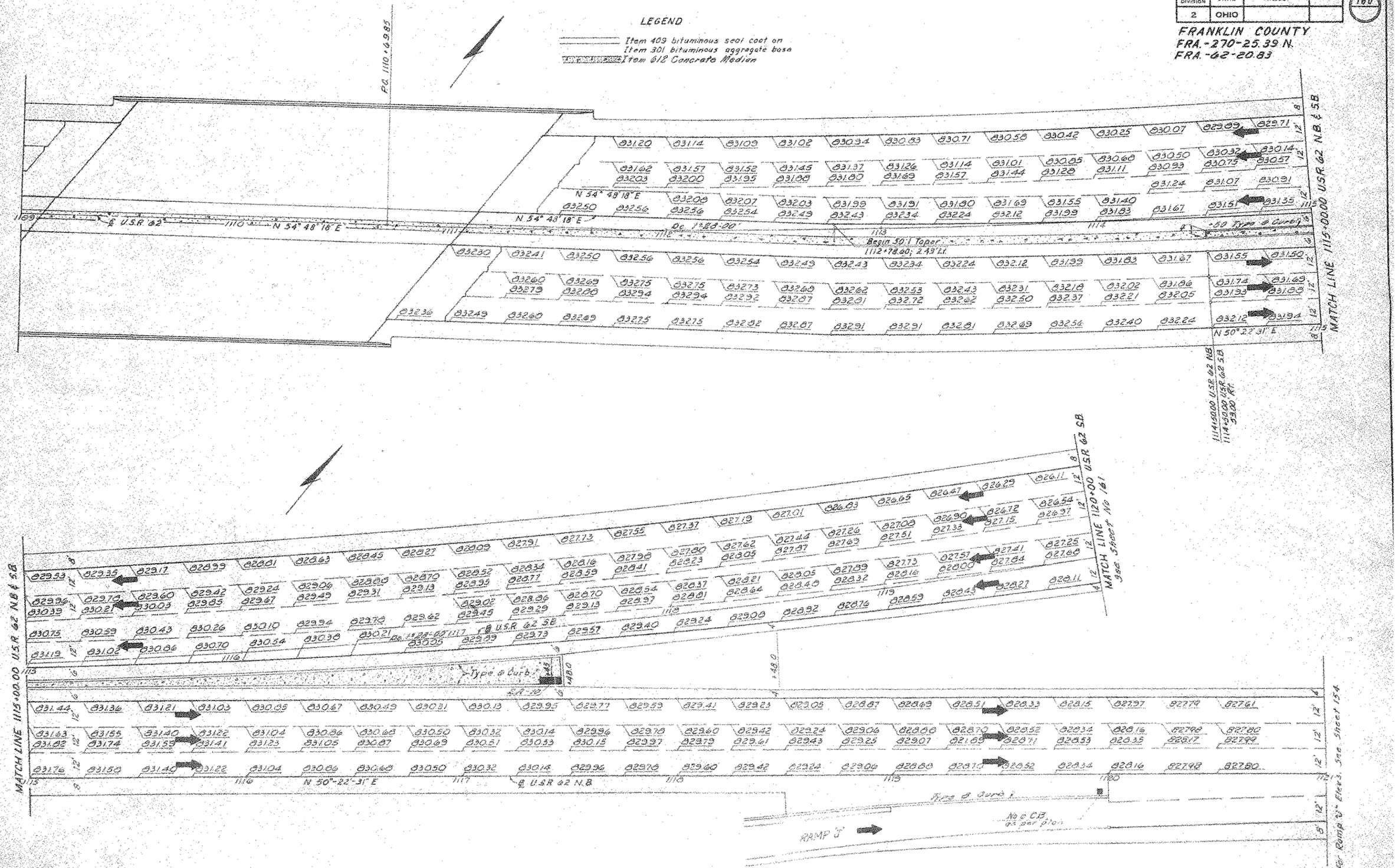
RAMP K

PAVEMENT DETAILS
RAMPS J & K @ STELZER RD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

160

FRANKLIN COUNTY
FRA.-270-25.39 N.
FRA.-62-20.83



PAVEMENT DETAILS
N.B. & S.B. USR-62

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

161

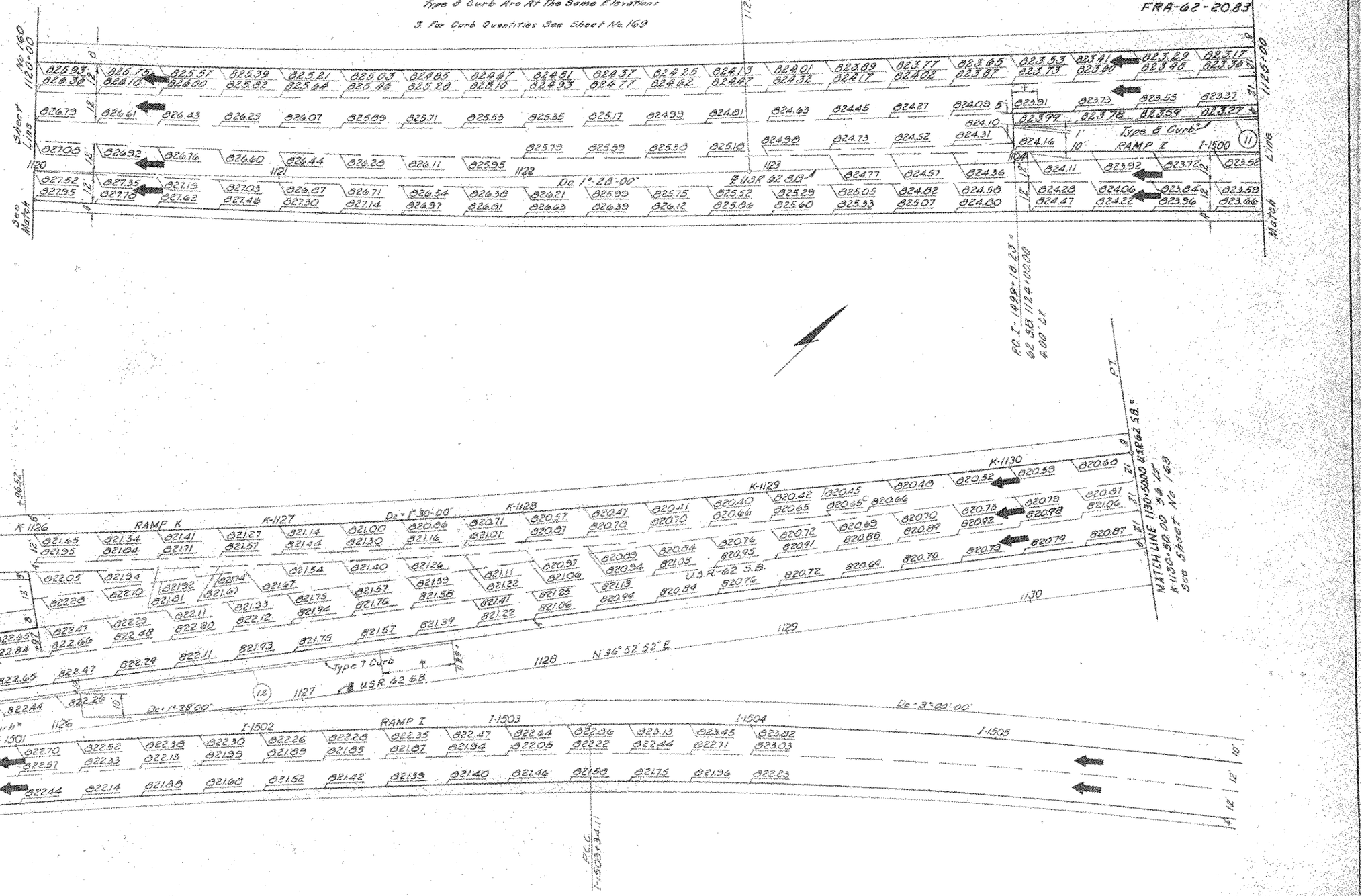
FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND

Item 409 bituminous seal coat on
Item 301 bituminous aggregate base

NOTES

1. For pavement elevations not shown see super elevation tables.
2. * Elevations Along Both Sides Of The Type B Curb Are At The Same Elevations.
3. For Curb Quantities See Sheet No. 169
4. † Transition From 9" To 2" In 10'.
5. # Transition From 9" To 0" In 30'.

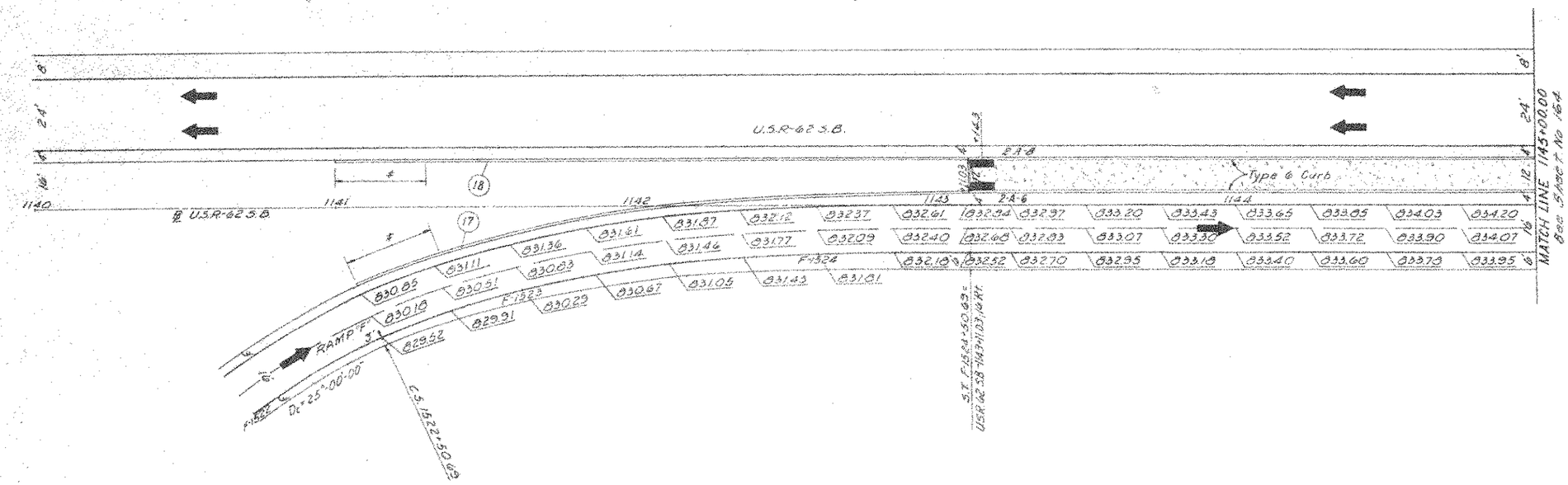


PAVEMENT DETAILS
RAMP "I", RAMP "K" & U.S.R. 62 S.B.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

162

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83



LEGEND

Item 409 bituminous seal coat on Item 301 bituminous aggregate base

Item 612 concrete median

NOTES

1 For pavement elevations not shown see super elevation tables.
2 & Transition Curb from 8" to 0" in 30'
3. For Curb Quantities, See Sheet 189

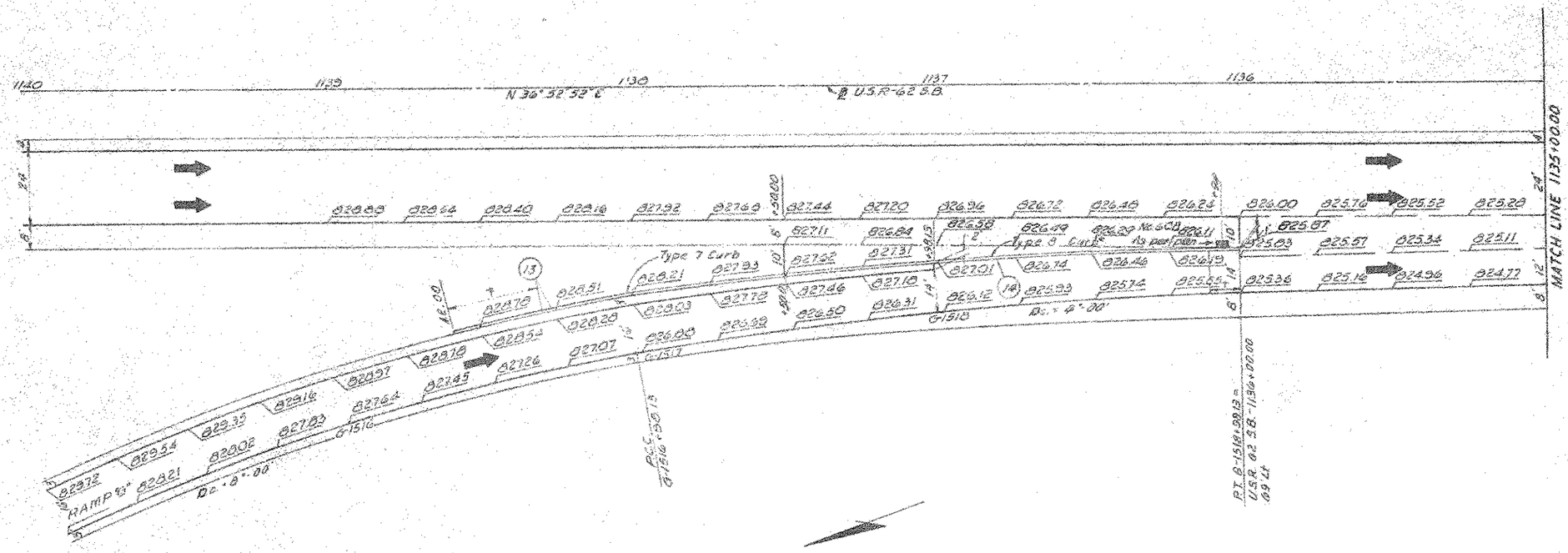
PAVEMENT DETAILS

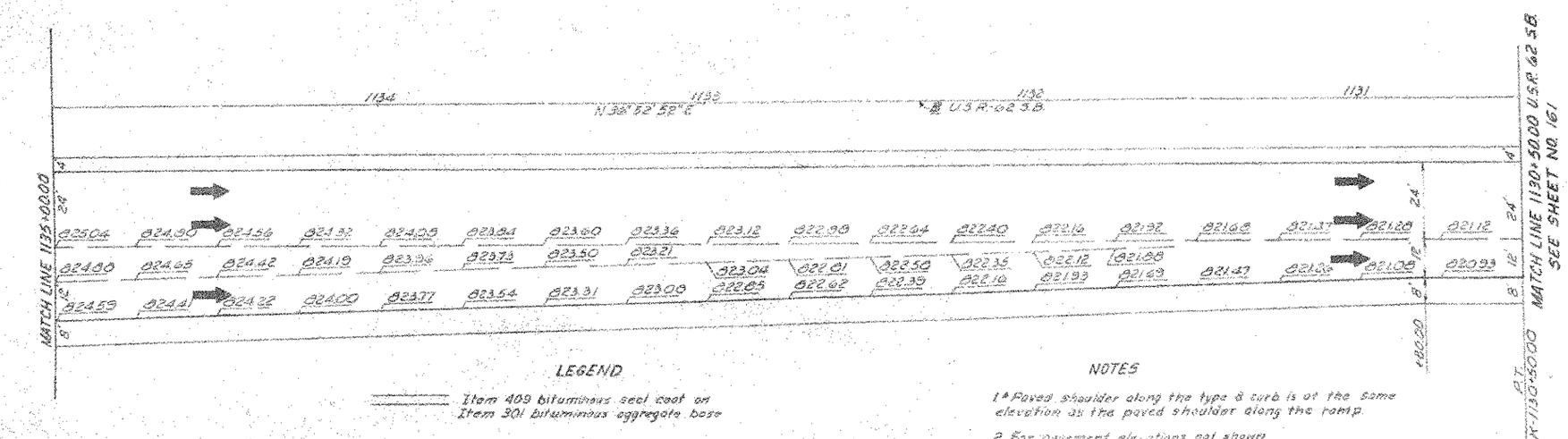
RAMP F & U.S.R-62 S.B.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

163

FRANKLIN COUNTY
FRA-270-25.39N.
FRA-62-20.83





LEGEND

Item 409 bituminous seal coat on Item 301 bituminous aggregate base

NOTES

1. Paved shoulder along the type 8 curb is at the same elevation as the paved shoulder along the ramp.
2. For pavement elevations not shown see super elevation tables.
3. For Curb Quantities See Sheet No. 169
4. Transition From 9" To 8" In 10'
5. Transition From 9" To 0" In 30'

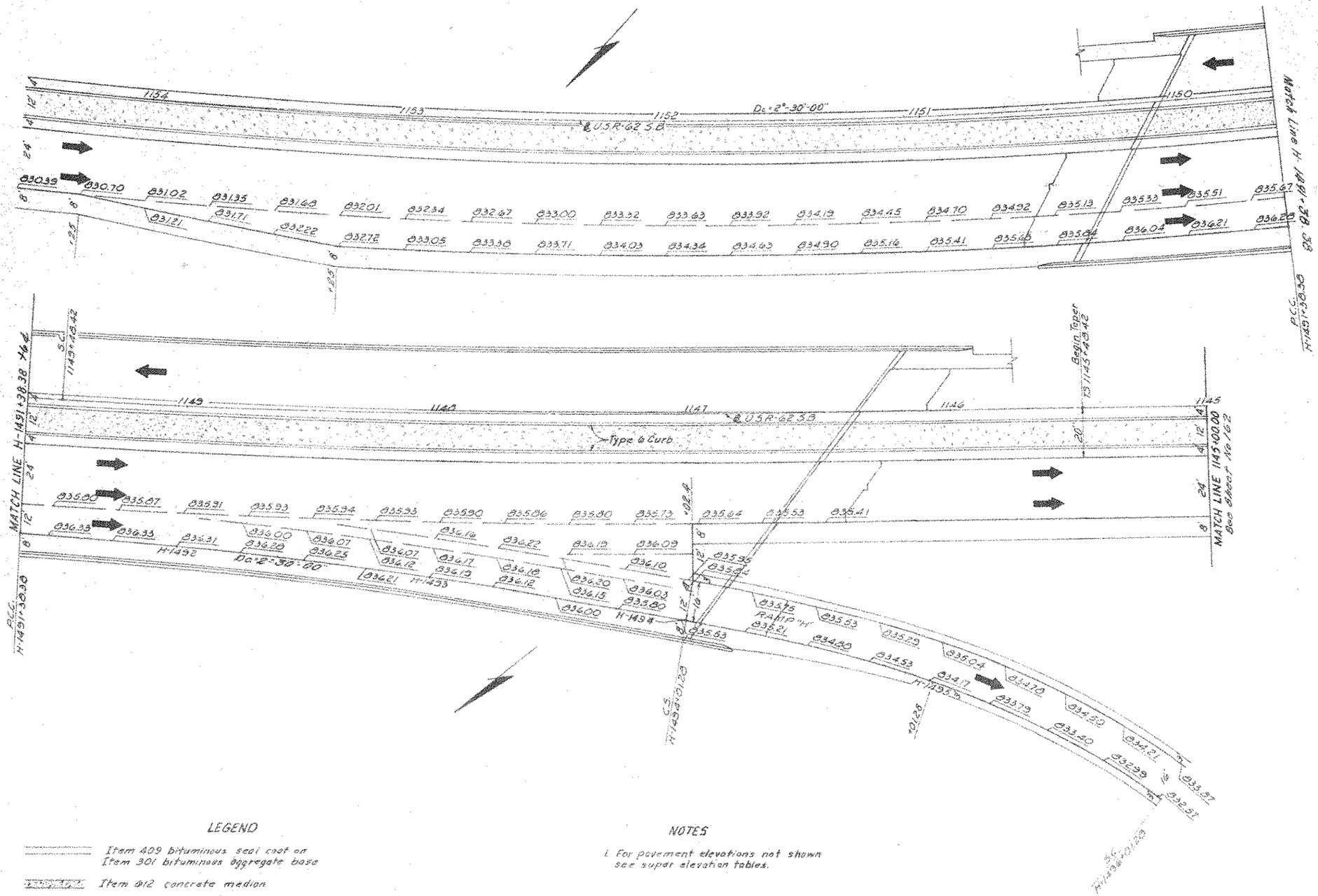
PAVEMENT DETAILS

RAMP "B" & U.S.R.-62 S.B.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

164

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83



LEGEND

Item 409 bituminous seal coat on Item 301 bituminous aggregate base

Item 612 concrete median

NOTES

1. For pavement elevations not shown see super elevation tables.

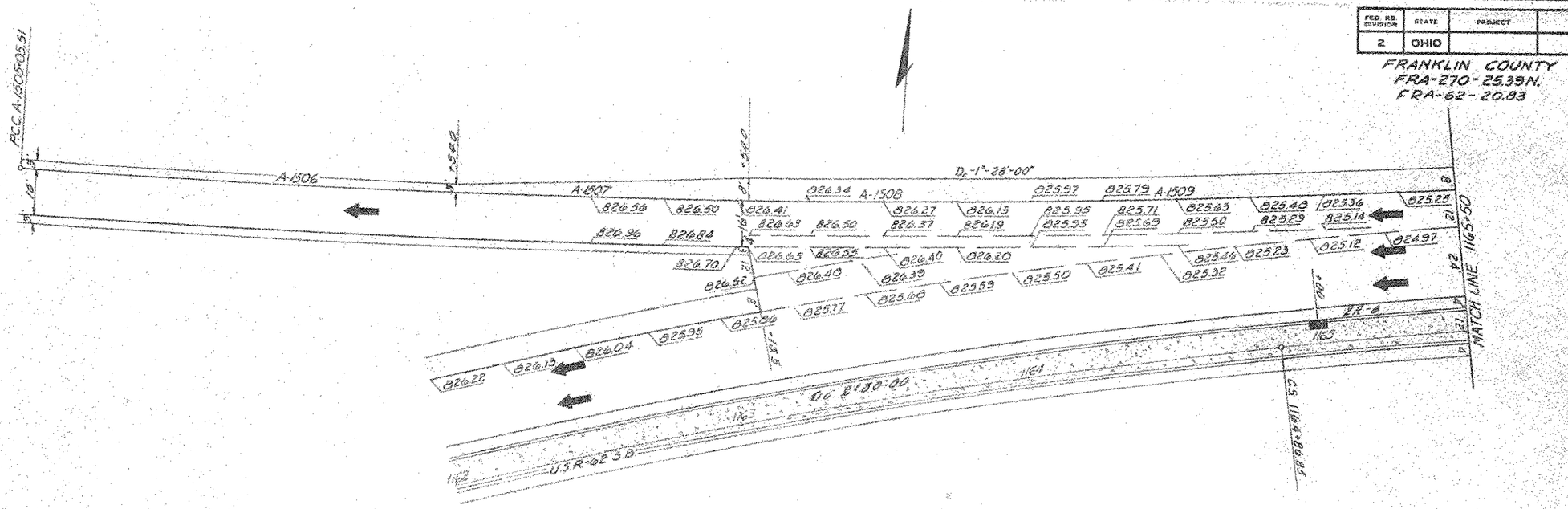
PAVEMENT DETAILS

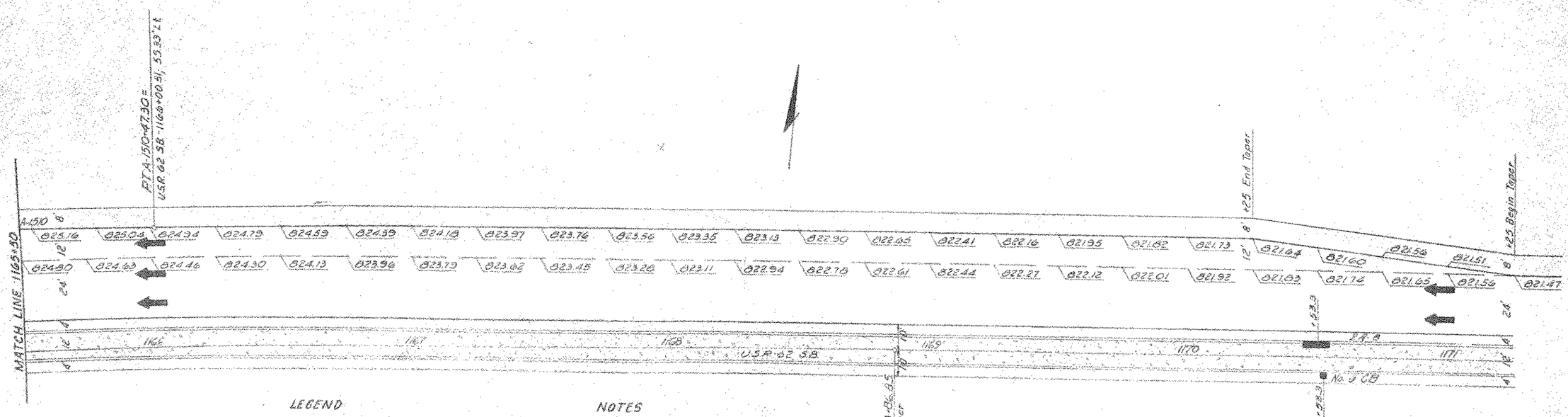
RAMP "H" ℄ U.S.R-62 S.B.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

165

FRANKLIN COUNTY
FRA-270-25.39N.
FRA-62-20.83





LEGEND

Item 409 bituminous seal coat on Item 301 bituminous aggregate base

Item 612 concrete median

NOTES

1 For pavement elevations not shown see super elevation tables.

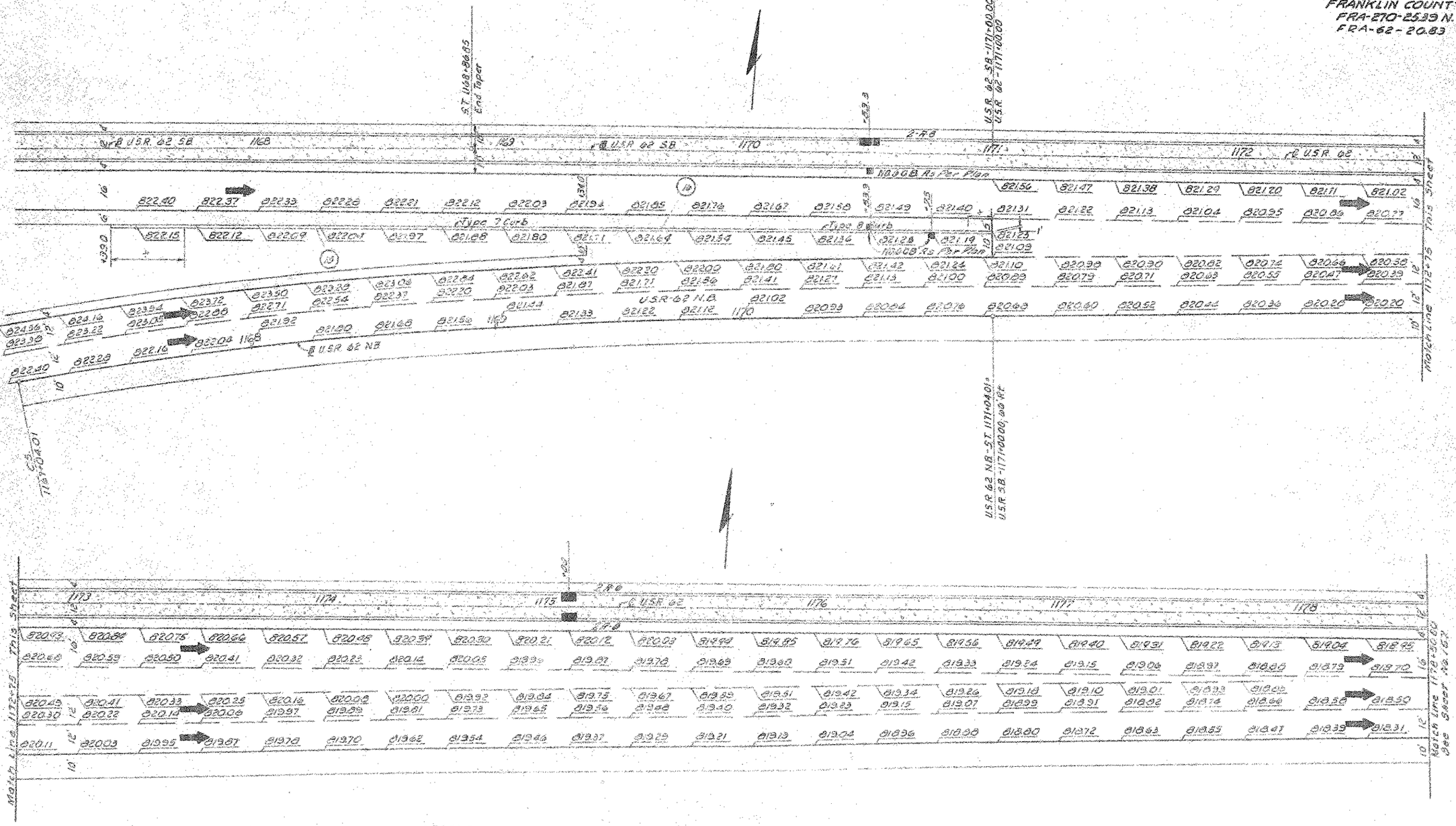
PAVEMENT DETAILS

RAMP 'A' & U.S.R.-62 S.B.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

166

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83



LEGEND

Item 405 bituminous seal coat on Item 301 bituminous aggregate base

Item 612 concrete median

NOTES

1. For pavement elevations not shown see super elevation tables
2. Pavement elevation along both sides of the type 8 curb are at the same elevations.
3. Quantities Carried To Sheet No. 169
4. Transition Curb From 9" To 2' In 10'
5. Transition Curb From 0" To 9" In 60'

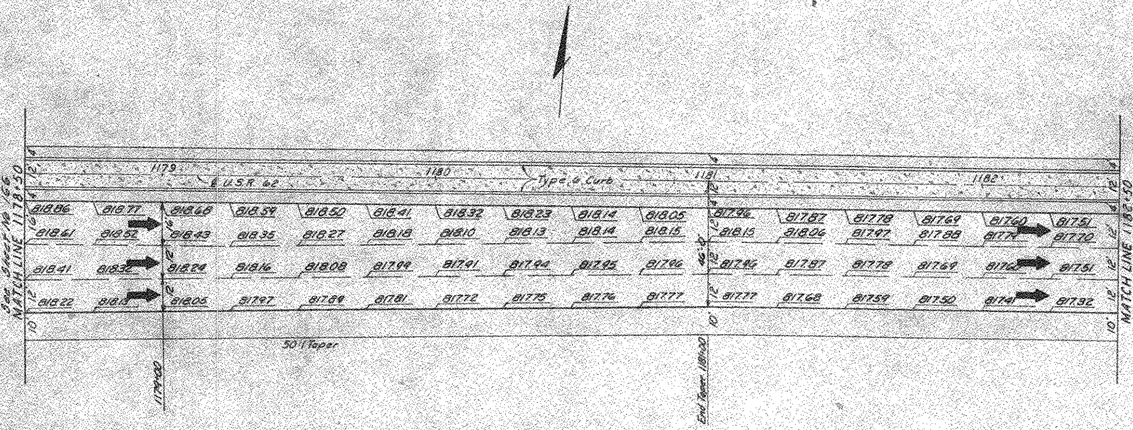
PAVEMENT DETAILS

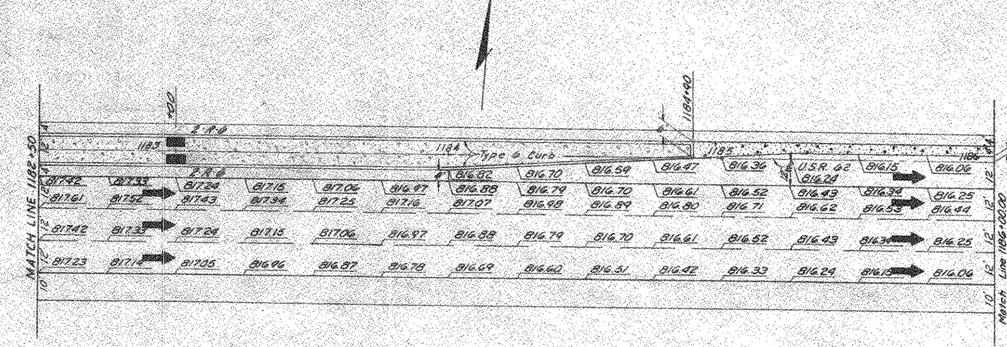
RAMP F & U.S.R. 62 N.B.

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

157

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83





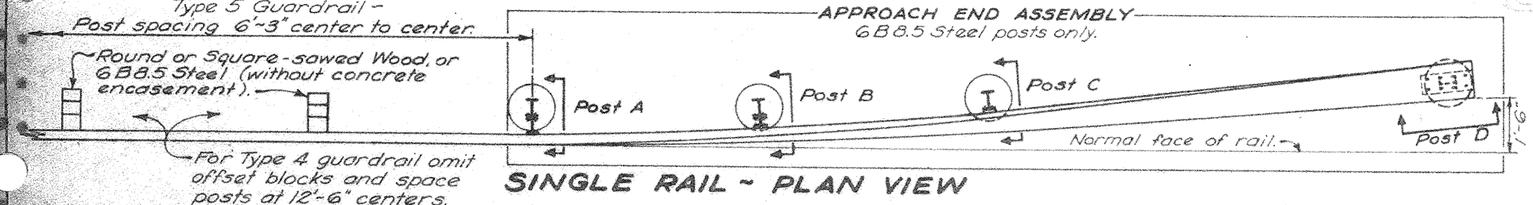
LEGEND

Item 409 bituminous seal coat on Item 301 bituminous aggregate base

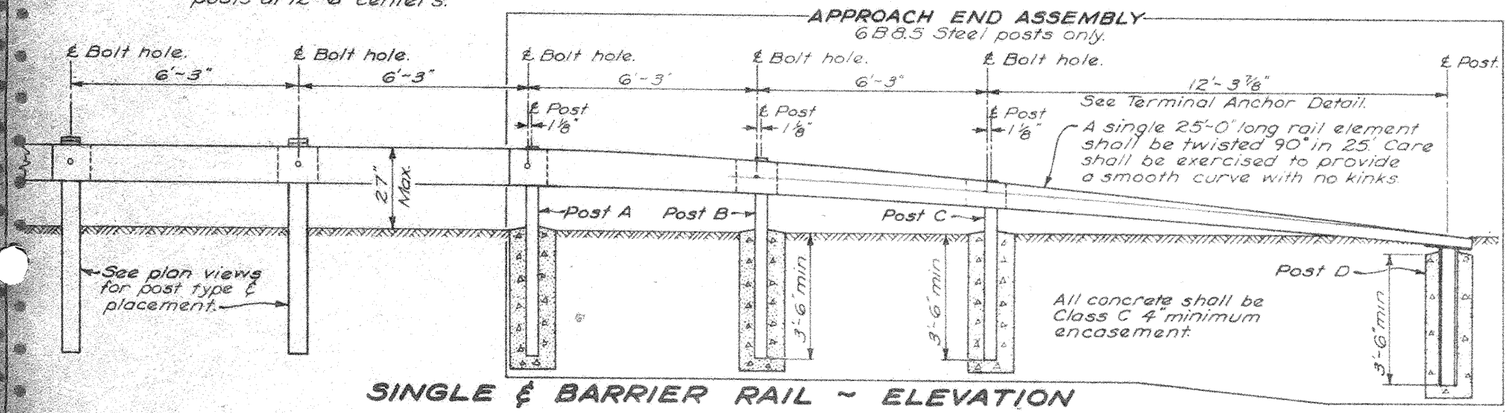
Item 612 concrete median

PAVEMENT DETAILS

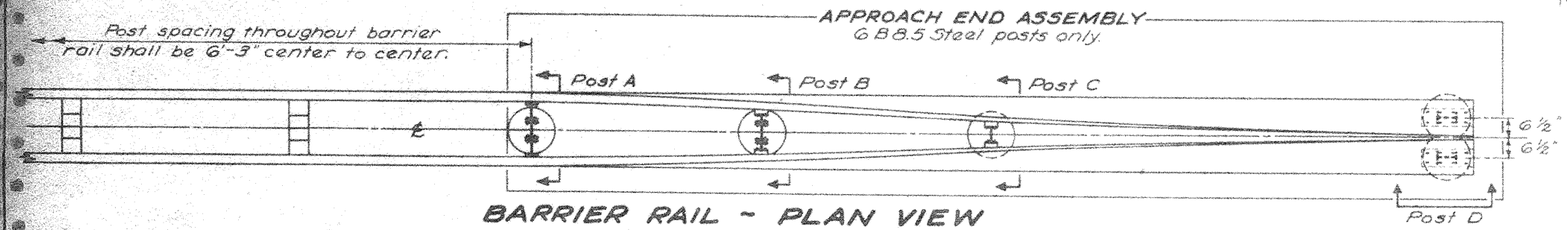
U.S.R. 62



SINGLE RAIL ~ PLAN VIEW



SINGLE & BARRIER RAIL ~ ELEVATION



BARRIER RAIL ~ PLAN VIEW

NOTES

For details not shown, see Standard Drawings GR-2A and GR-2B.

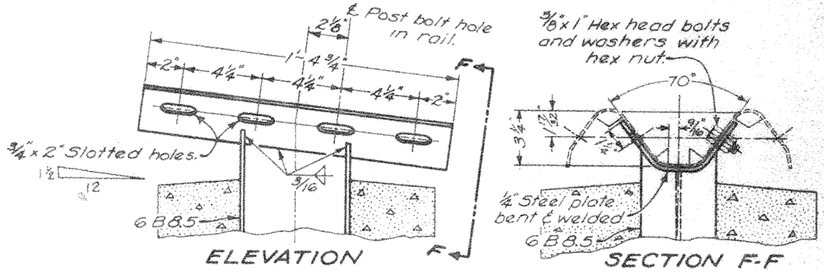
All steel parts shall be galvanized in accordance with ASTM A123, A153 or A525, whichever may apply.

This drawing shall govern where a conflict arises.

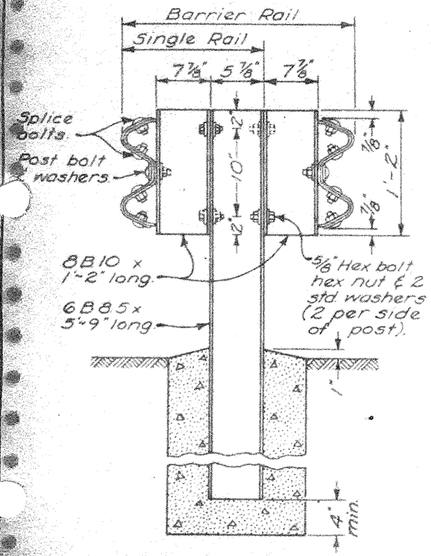
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

168

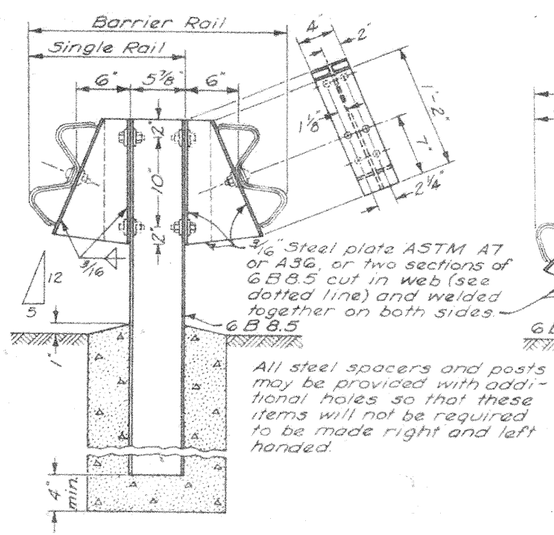
FRANKLIN COUNTY
FRA-270-25.39 N
FRA 62-20.83



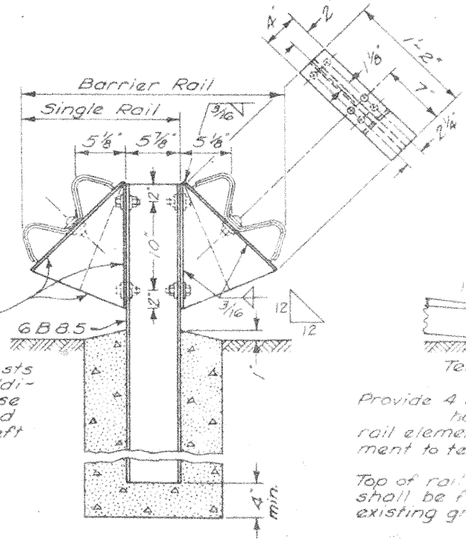
TERMINAL ANCHOR DETAIL



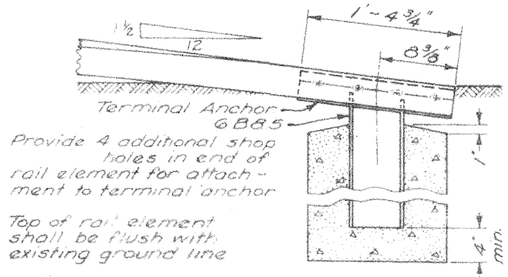
POST A



POST B



POST C



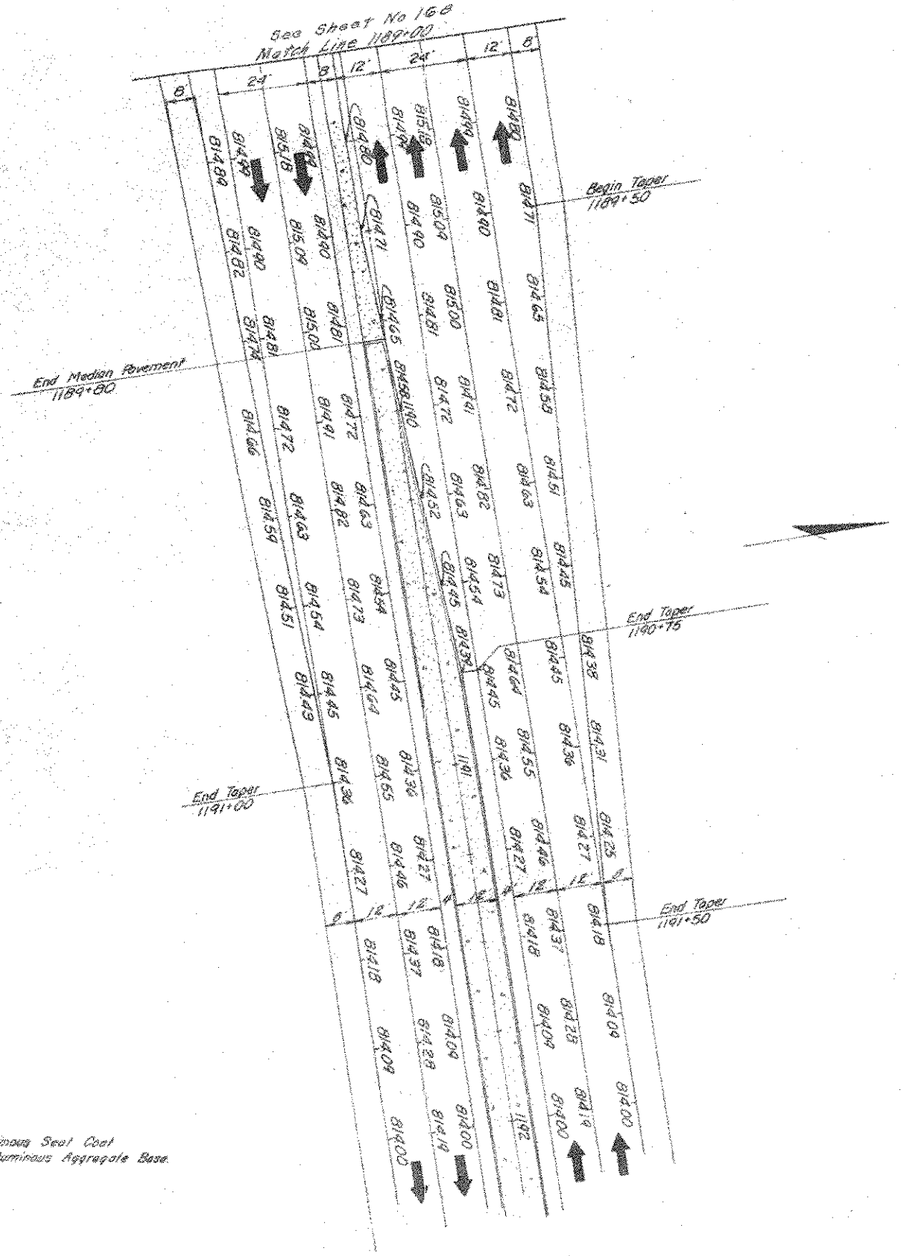
POST D

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

169

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC	SAS	10-69
CHK	W.D.S.	11-69

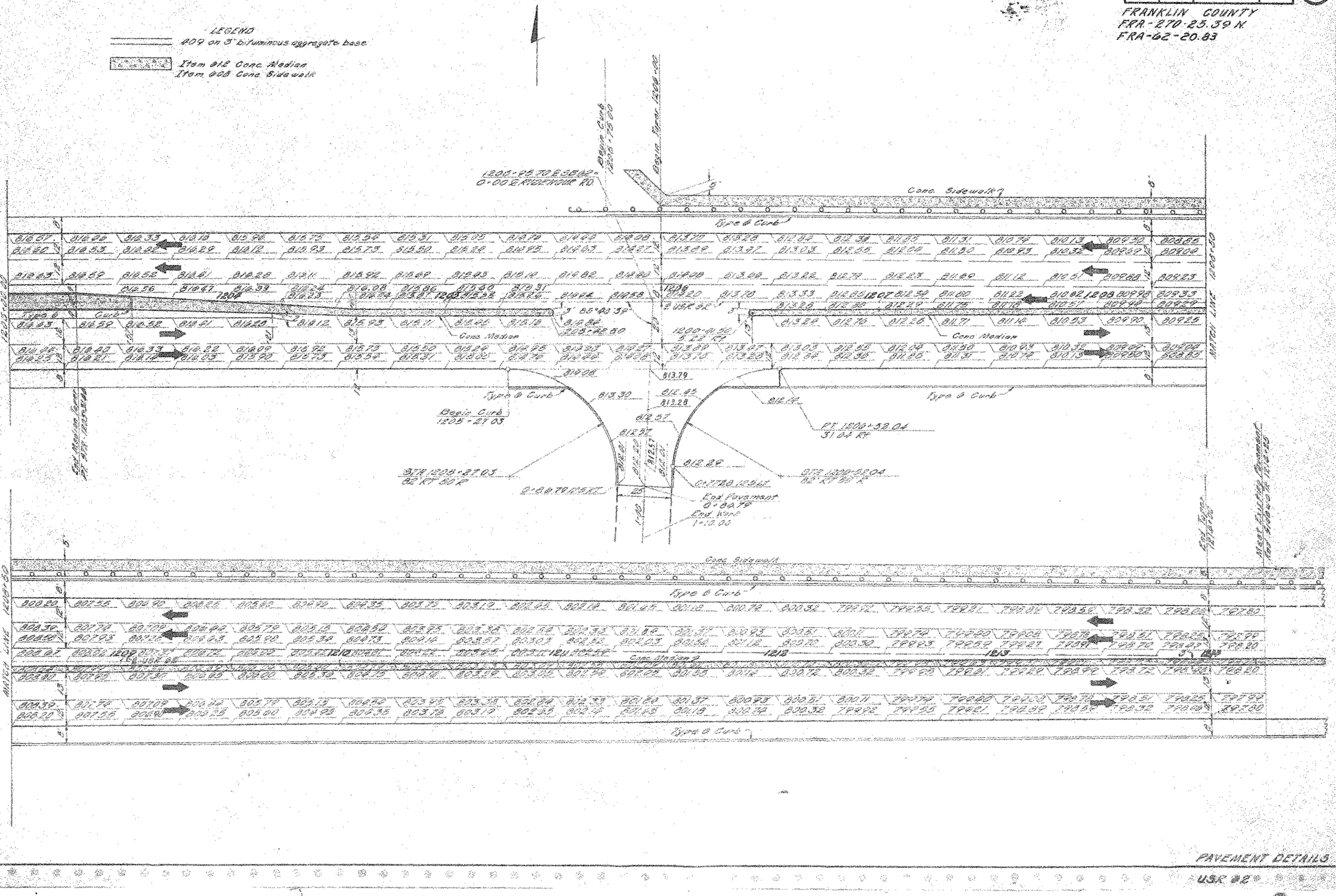


FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

170

FRANKLIN COUNTY
FRA-270-25.39 N.
FRA-62-20.83

LEGEND
409 on 3" bituminous aggregate base
Item 612 Conc. Median
Item 608 Conc. Sidewalk



PAVEMENT DETAILS
USR 62

	STATE			171
8	OHIO			

FRANKLIN COUNTY
FRA.-270-25.39 N
FRA. 62 - 20.83

CALC	SAS	10-69
CHK	DWD	11-69

Ref. Sta. 1094+65.10 Pt 3
Sta. 1094+65.10 Pt 4
Line Tack in Cedor
Line Tack in 4" Chinese Elm
PK in 8" Oriental Tree
1106
1100
83°
90°

STERLING AVE
Existing R/W
Ex-R/W
FLOWAY DRIVE
SERVICE ROAD "C"
N52°26'45"E
Ex LA
Match Line
Begin Work Sta. 1094+54
N53°21'30"E
N-W S RAMP
Work Limits
1090
1092
1094
1096
1098
1100
Ex 12" STS
Ex 18" STS
N53°47'56"E
N54°47'56"E
W-S S RAMP
N59°26'55"E
Work Limits
Ex LA
U-202 (5)

BEGIN PROJECT
FRA 62 - 20.83
S.L.M. 62 - 20.83
STA. 1100+00

EXISTING U.S.62 TYPICAL

1.5 | 1.2 | 1.2 | 3 | 1.1 | 1.1 | 3 | 1.2 | 1.2 | 1.5
1½" FL | 1½" FL | 3½" FL | 1½" FL | 4:1 | 4:1 | 1½" FL | 3½" FL | 3½" FL | 1½" FL

5" Asphalt Concrete
6" Aggregate Base
8" Subbase
400 on 8" Agg. Base
8" Subbase

B.M.-R.R. Spike in S. side of Pole #35A26 on N side Rt 62 across from 2771 Johnstown Road. El. 813.297

815.9 | 816.03 | 814.87 | 814.71 | 814.55 | 814.39 | 814.23 | 814.11 | 814.06 | 814.09 | 814.19 | 814.37 | 814.62 | 814.91 | 815.35 | 815.83 | 816.38 | 817.05 | 817.71 | 818.45 | 819.19

825
820
815
810
805
800
795

600' V.C.
P.V.I. Sta. 1096+00
El. 813.27
-0.32%
+1.49%
Ex. 12" STS

REF	STATION TO STATION	SIDE	Barrier Rail Type S	Guard Rail Type S	#09 Appr. End Assy.	Anchor Assy.	Anchored End Assy. Bar Type
USR	1094+38 - 1097+00	RT	45'	225'	Ea.	Ea.	Lg.
SUR	1094+38 - 1096+00	RT	30.0	200	1	1	2
U-202(5) TOTALS			30	550	1	1	2

1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100

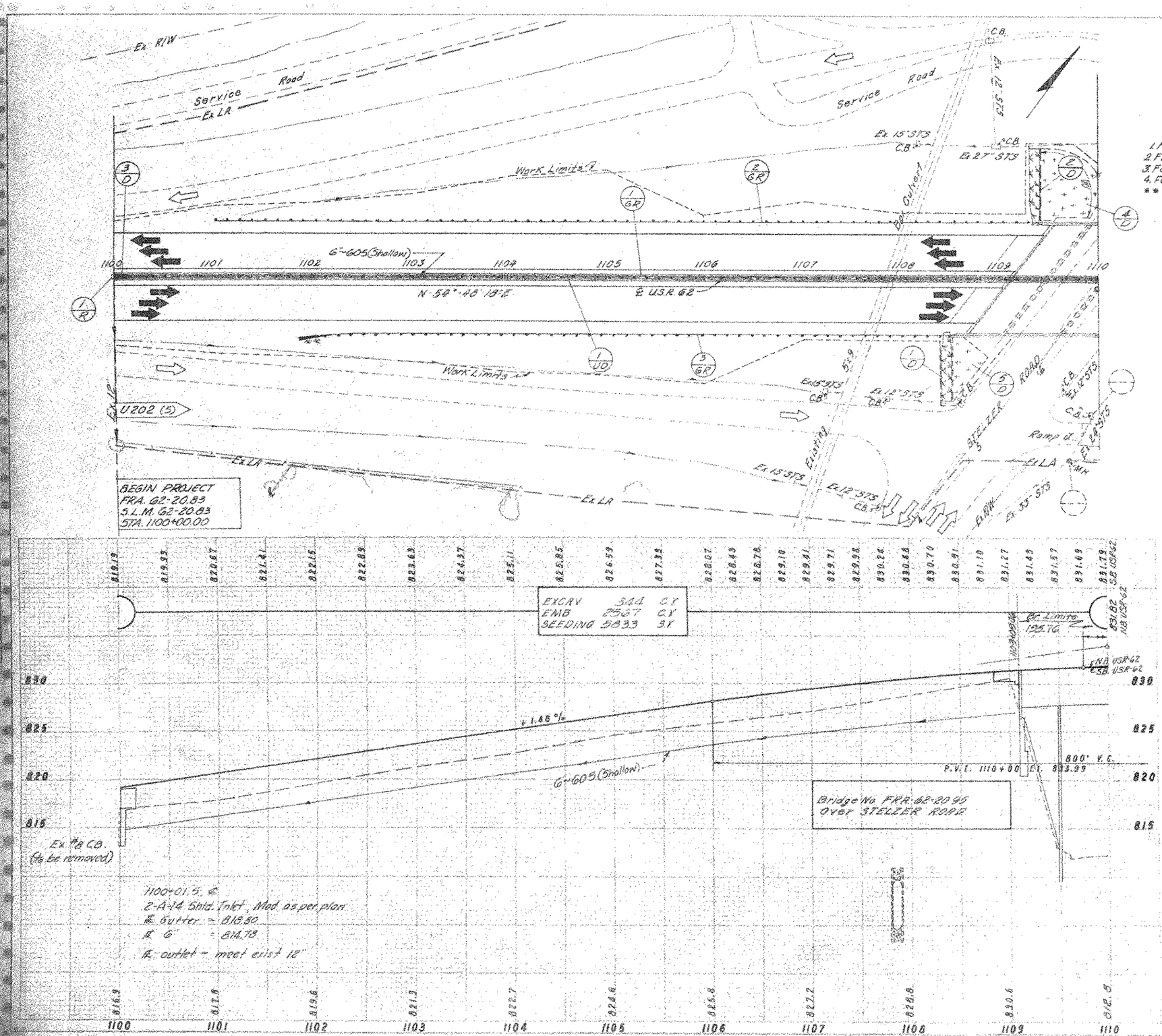
USR 62 STA. 1090 TO 1100

2	OHIO		

172

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC: SAS 10-69
CHK: WRH 11-69



NOTES
1. For Ramp "J" Plan, See Sheet No. 95
2. For Ramp "J" Profile, See Sheet No. 104
3. For Ramp "J" Pavement Details, See Sheet No. 162
4. For U.S.R.-62 S.B. Cross Sections, See Sheet Nos. 184-186
** Guard Rail Flared out to Post No. 10

(4/D) [(110÷2)(60+75)÷2] × 1.08 ÷ 9 = 446 S.Y.

(5/D) [(40÷2)(55)] × 1.08 ÷ 9 = 132.2 S.Y.

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam Bridge With Reinforced Conc. Deck & Substructures
SPANS: 39'-0", 56'-0", 56'-0", 39'-0" o/c Brg.
ROADWAY: 112'-0" f/f Parapet
LOADING: HS 20-44
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 38°41'10" L.F.
APPROACH SLAB: AS-1-67 (25'0")
ALIGNMENT: Tangent & 1°29' Curve
SUPERELEVATION: Lt. Br. Variable Rt. Br. 3/16" / Ft.
AVERAGE DAILY TRAFFIC: 34.727 (1973)

REF.	STATION TO STATION	SIDE	606 Barrier Rail Type 5	Guard Rail Type 5	Approach End Assy.	Bridge Term Assy.	Anchor Assy	App. End Assy. Bar Type		
			L.F.	L.F.	Ea.	Ea.	Ea.	Ea.		
1-GR	1100+07.00 to 1109+09.46	℄	902.46					1		
2-GR	1101+05.3 to 1109+42.8	Lt.		837.5		1	1			
3-GR	1101+89.3 to 1108+51.8	Rt.		662.5	1	1				
U-202 (5)	TOTALS		902.46	1500	1	2	1	1		

*** as per plan

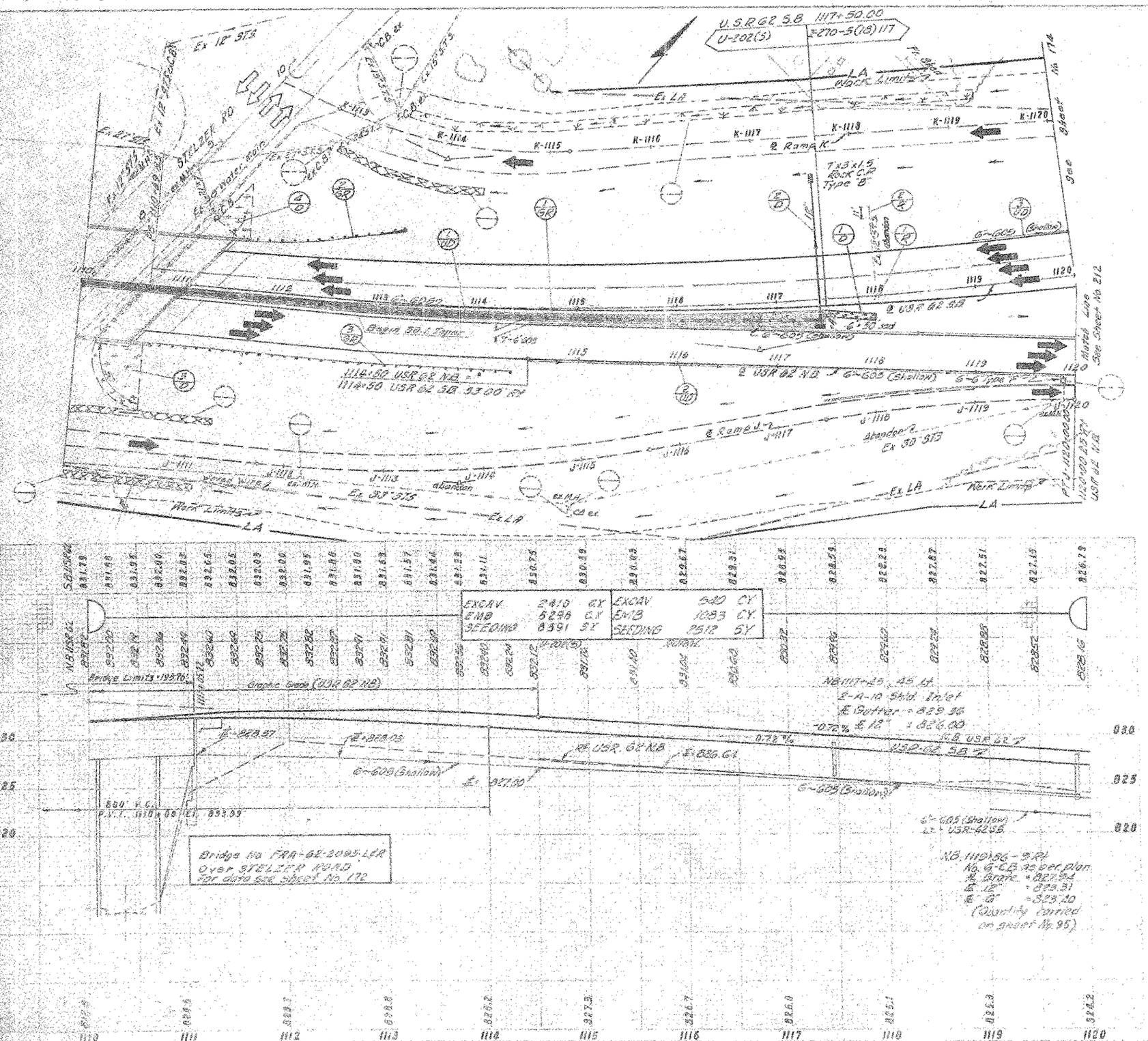
REF.	STATION TO STATION	SIDE	202 Catch Basin Removed or Abandoned	603 6" Type "F"	603 12" Type "B"	604 2-A-14 Shld. Inlet as per Plan	605 6" Shallow	660 Spec. Berm & Slope Protection	830 Excelsior Matting	For Detail See Sheet
			Ea.	L.F.	L.F.	Ea.	L.F.	S.Y.	S.Y.	
1-D	1100+03 to 1109+08	Lt.		10			893			
1-D	1108+47	Rt.						71		
2-D	1109+36	Lt.						77		
3-D	1100+01.5	℄			8	1				184
4-D	1109+42 to 1110+03	Lt.							446	
5-D	1108+52 to 1108+88	Rt.							133	
1-R	1100+00	℄	1							
U-202 (5)	TOTALS		1	10	8	1	893	148	579	

USR 62 STA. 1100+00 TO 1110+00

FED. AID PROJECT NO.	STATE	PROJECT	SHEET NO.
2	OHIO		173

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC. SAS 10-69
CHK. W.D.L. 11-69


U.S.R 62 S.B. 1117+50.00
U-202(5)
F-270-5(08)117
Ex 18" STS
Ex 12" STS
Ex 42" SCP
STELZER RD
Ex Manhole
Ex Waterline
Ex CB
Ex Inlet
Ex MH
Ex 30" STS
Ex 33" STS
Ex 24" STS
Ex 12" STS
Ex 8" STS
Ex 6" STS
Ex 4" STS
Ex 3" STS
Ex 2" STS
Ex 1" STS
Ex 0.5" STS
Ex 0.25" STS
Ex 0.125" STS
Ex 0.0625" STS
Ex 0.03125" STS
Ex 0.015625" STS
Ex 0.0078125" STS
Ex 0.00390625" STS
Ex 0.001953125" STS
Ex 0.0009765625" STS
Ex 0.00048828125" STS
Ex 0.000244140625" STS
Ex 0.0001220703125" STS
Ex 0.00006103515625" STS
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Ex 0.000003814697265625" STS
Ex 0.0000019073486328125" STS
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Ex Manhole
Ex 42" SCP
Ex 18" STS
Ex 12" STS
K-1114
K-1115
K-1116
K-1117
K-1118
K-1119
K-1120
K-1170
℄ Ramp K
7'x3'x1.5' Rock Cut Type "B"
5'-6" Rock Excavation
6'-6" Type "A"
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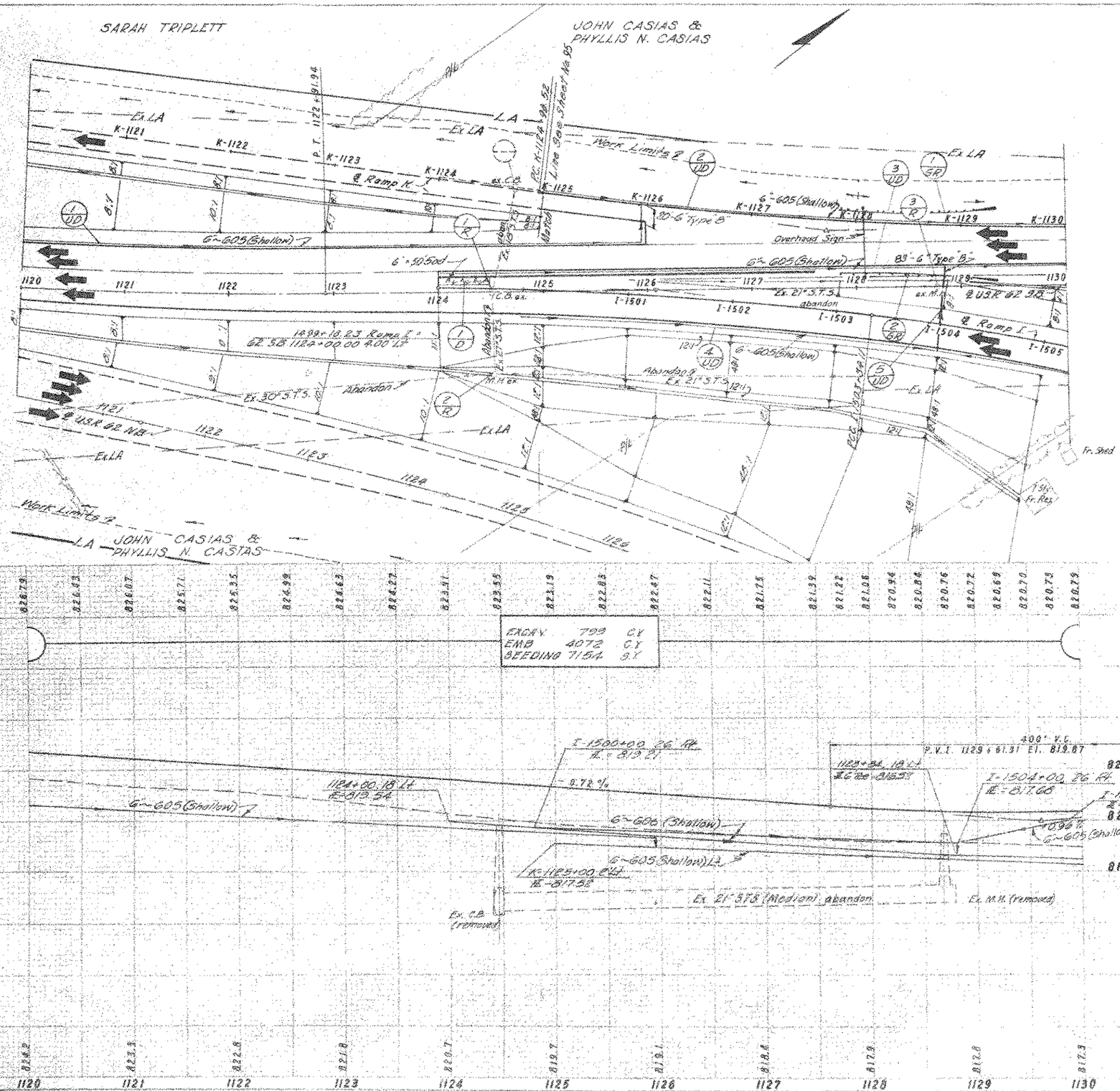
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

174

FRANKLIN COUNTY
FRA-270-26.39N
FRA-62-20.83

CALC: SAS 10-69
CHK: WJB 11-69



NOTES
1. For Ramp "K" Plan, See Sheet No. 95
2. For Ramp "K" Profile, See Sheet No. 105
3. For Ramp "K" & U.S.R. 62 S.B. Pavement Details See Sheet No. 161
4. For Ramp "I" Profile, See Sheet No. 103
5. For Ramp "I" & U.S.R. 62 S.B. Pavement Details See Sheet No. 161
6. For U.S.R.-62 S.B. Cross Sections, See Sheet Nos. 189-191
7. For U.S.R.-62 N.B. Plan & Profile, See Sheet No. 212
8. For U.S.R.-62 N.B. Cross Sections, See Sheet Nos. 218-219
9. For Ramp I Cross Sections, See Sheet Nos. 133-134
10. For Ramp K Cross Sections, See Sheet Nos. 146-147

REF	STATION TO STATION	SIDE	606 Guard Rail Type 5	606 Appr. End Assy.	606 Anch. Assy.					
			L.F.	Ea.	Ea.					
1-GR	K-1127+84 to K-1129+34	Lt.	150	1	1					
2-GR	1127+84 to 1129+34	Rt.	150	1	1					
Rural TOTALS			300	2	2					

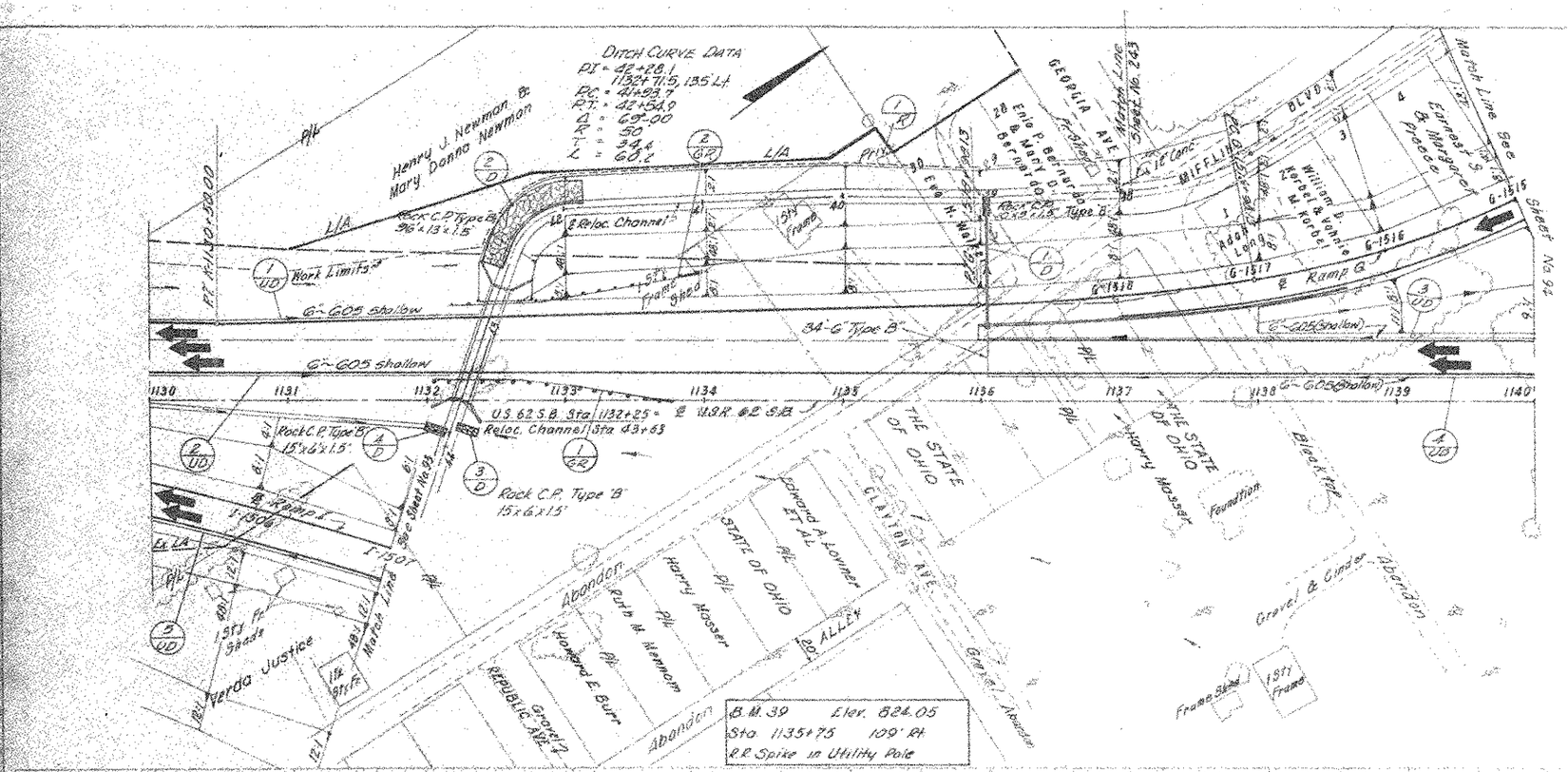
REF	STATION TO STATION	SIDE	202 Catch Basin Rem. or Aban.	202 Manhole Removed or Aban.	202 Bends & Branches		603 Type "B" 6"	605 (Shallow) 6"	660 Sodding	For Details See Sheet
			Ea.	Ea.			L.F.		S.Y.	
1-UD	1120+00 to 1125+00	Lt.			1		20	615		190
2-UD	K-1125+00 to K-1130+00	Lt.			1			500		
3-UD	1124+00 to 1130+00	Lt.			1			600		
4-UD	I-1500+00 to I-1505+00	Rt.			1			530		
5-UD	I-1503+00	Lt.					83			133
1-R	1125+50	6	1							
2-R	1124+00	Rt.		1						
3-R	1128+77	6		1						
4-D	1124+00 to 1124+50	Rt.							34	
Rural TOTALS			1	2			103	2245	34	

USR 62 S.B. 1120+00 TO 1130+00

STATE	PROJECT NO.	
OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC. SAS 10-69
CHK. WDB 11-69

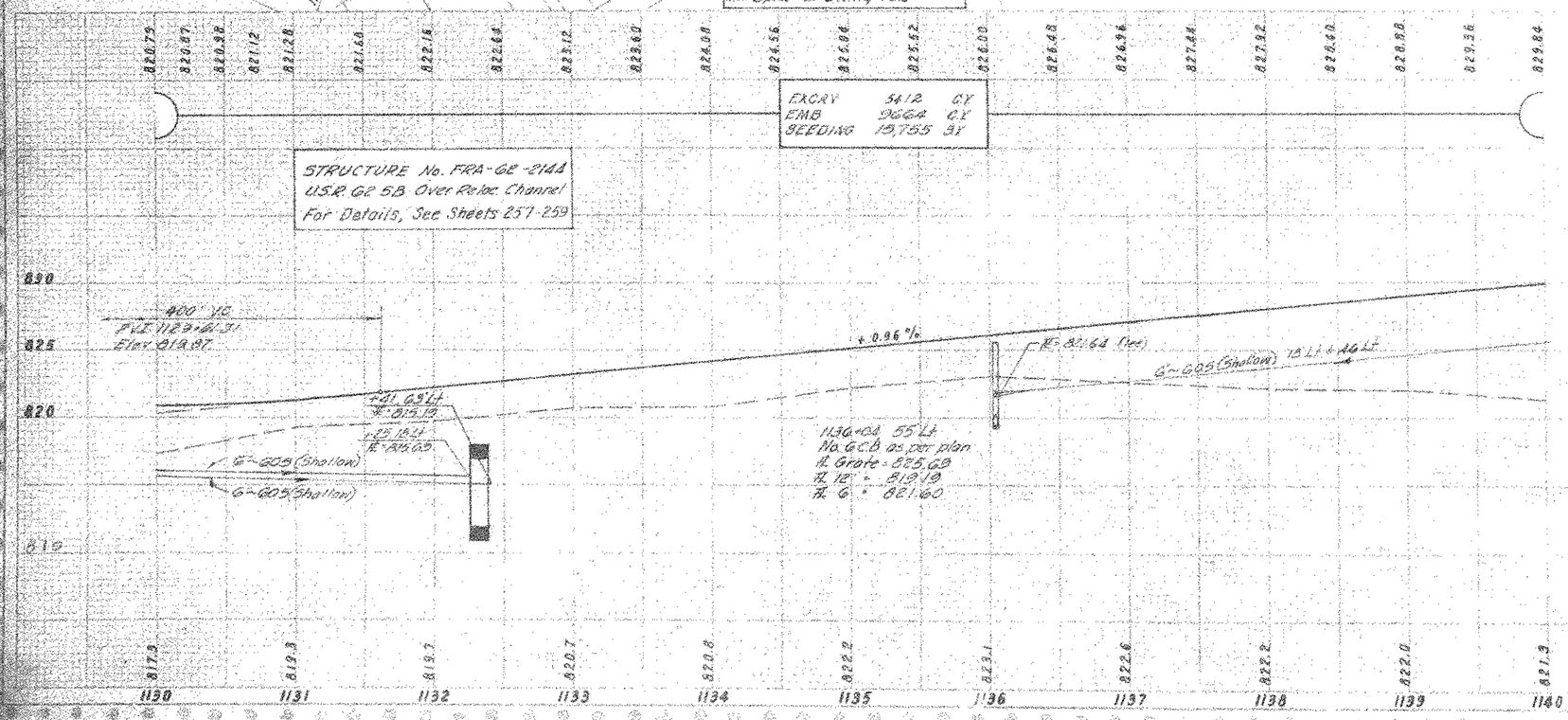


NOTES

1. For Ramp "G" Plan See Sheet No. 94
2. For Ramp "G" Profile See Sheet No. 101
3. For Ramp "G" & U.S.R. 62 S.B. Pavement Details See Sheet No. 163
4. For Ramp "I" Plan See Sheet No. 93
5. For Ramp "I" Profile See Sheet No. 103
6. For Channel Profile and X-sects. See Sheet Nos. 249-250
7. For U.S.R. 62 S.B. Cross Sections, See Sheet Nos. 191-194
8. For Ramp "G" Cross Sections, See Sheet No. 129
9. For Ramp "I" Cross Sections, See Sheet No. 134

PROPOSED STRUCTURE
TYPE: 12'x5' Reinforced Concrete Box Culvert
ROADWAY: 54'-8½" average f/f guardrail
LOADING: HS-20-44
SKEW: 19° 22' 10" LF
ALIGNMENT: Tangent
SUPERELEVATION: none
AVERAGE DAILY TRAFFIC: 12,255 (1973)
For Details See Sheet No. 257-259

REF	STATION TO STATION	SIDE	606 Guard rail Type 5	606 Approach End Assy	606 Anchor Assy			Special Cleaning Privy Vaults		
			LF	Ea.	Ea.			Ea.		
1-R	1135+31	Lt						1		
1-GR	1132+04 to 1133+79	Rt	175	1	1					
2-GR	1132+21 to 1133+96	Lt	175	1	1					
Rural TOTALS			350	2	2			1		



* as per plan

REF	STATION TO STATION	SIDE	601 Rock C.P. Type "B"	602 Conc. Masonry	603 Type "B" 6"	603 Type "B" 12"	603 Type "F" 6"	604 No. 6 C.B. *	605 Shallow 6"	Bends & Branches	Under drain Detail	For Details See Sheet
			CY	CY	LF	LF	LF	Ea	LF			
1-OD	1130+00 to 1132+41	Lt					10		231			
2-OD	1130+00 to 1132+25	Lt					10		215			
3-OD	1136+04 to 1140+00	Lt							396			
4-OD	1136+04 to 1140+00	Lt			34				396	2	0	193
5-OD	I-1505+30 to I-1507+00	Rt							170			
1-D	1136+04	Lt	3	3		80		1				
2-D	1132+43 to 1133+13	Lt	93									
3-D	1132+20 to 1132+35	Rt	7									
4-D	1131+98 to 1132+13	Rt	7									
Rural TOTALS			110	3	34	80	20	1	1408			

U.S.R. 62 S.B. 1130+00 TO 1140+00

SEC. NO.	COUNTY	PROJECT	SHT. NO.
12	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.03

CONST.	SHS	10-69
DES.	L.O.H.	11-69

NOTES

1. For Mainline Plan & Profile, See Sheet No. 61, 62
2. For Ramp F Plan, See Sheet No. 93
3. For Ramp F Profile See Sheet No. 100
4. For Ramp F & US# 62 SB Pavement Details, See Sheet No 165
5. For Ramp H Plan, See Sheet No. 94
6. For Ramp H Profile, See Sheet No. 102
7. For Ramp H & US# 62 SB Pavement Details, See Sheet No. 167
8. For US# 62 SB Cross Sections see Sheet No. 104-106
9. For Ramp F Cross Sections see Sheet No. 123, 124
10. For Ramp H Cross Sections see Sheet No. 130

PROPOSED STRUCTURE FRA-270-2039

TYPE: Continuous Steel Girder Bridge With Reinforced Conc Deck & Substructures
SPANS: 72-4", 117'-6", 102'-1", 90'-8" Ramp F & US# 62 SB
ROADWAY: 54'-0" out to out (Avg Lt Dir), 27'-3" out to out (Avg Rt Dir)
LOADING: HS-20 44
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 31°-37'-57" (To Reference Tangent)
APPROACH SLAB: 1 @ 25'-0" Long
ALIGNMENT: Tangent to 1+00 Spiral & 2°30' Curve
SUPERELEVATION: Varies
AVERAGE DAILY TRAFFIC: 7012 (1973)

REF.	STATION TO STATION	SIDE	606 Guard Rail Type B	606 Barrier Rail Type J	606 Anchored End Assy	606 Bridge Term Assy	606 Anch Assy	606 Approach Assy, Barrier Type		
			L.F.	L.F.	Ea	Ea	Ea	Ea		
H(R)	1143+16.15 & 1147+38.50	R		422.35	2	2	2	2		
G(R)	1141+77.1 to 1145+90.0	RT	1013		1	1		1		
F(R)	1141+13 to 1143+63	LT	150				1			
	Road TOTAL		1163	422.35	3	3	3	3		

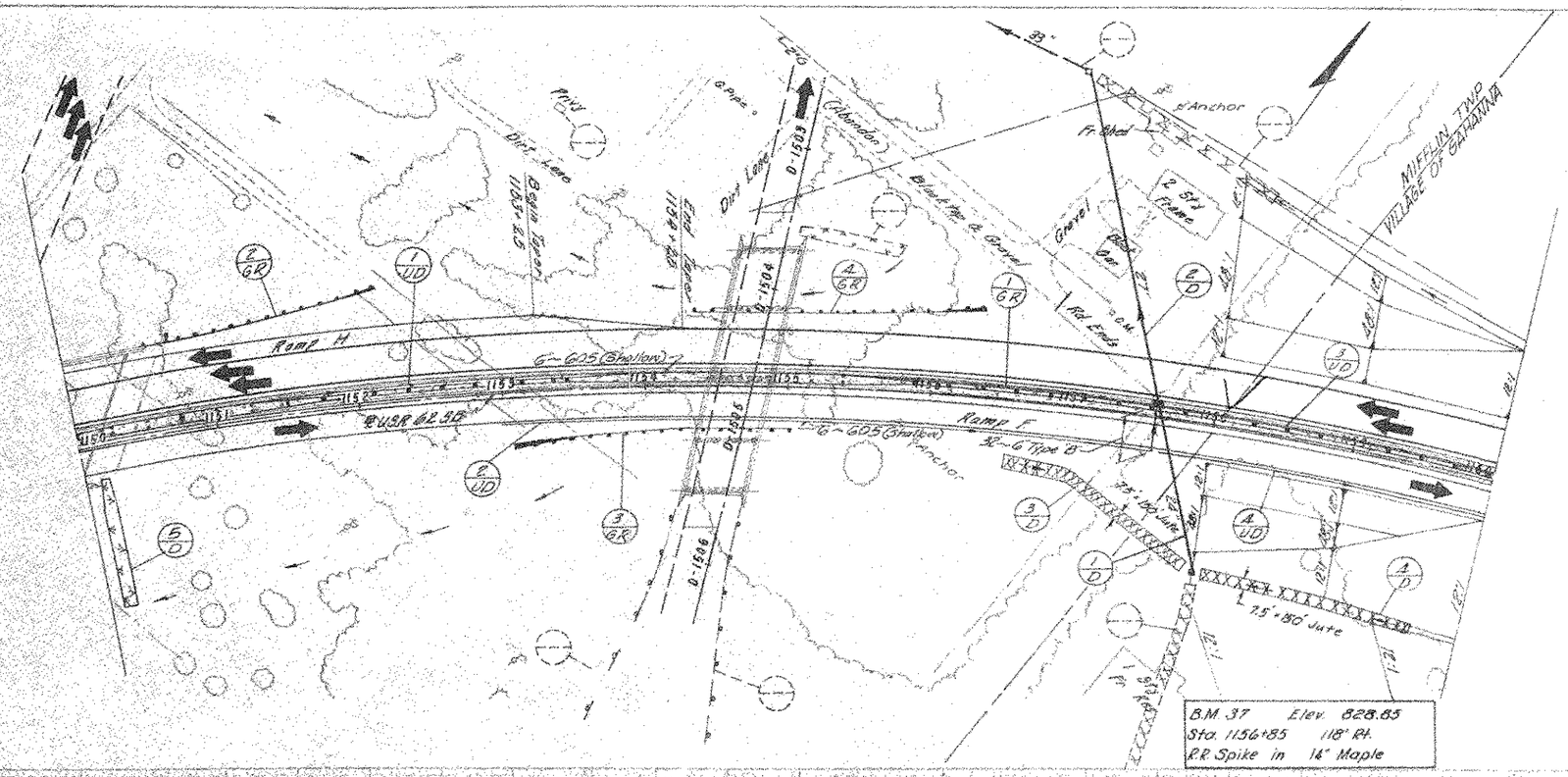
REF.	STATION TO STATION		602 Concrete Masonry	603 12" Type B*	604 Inlet Grated Top Type		605 Pipe Underdrains 6"	607 Guard Berm Slope Protection		608 4" Concrete	609 Curbing Type 6	
			C.Y.	L.F.			L.F.	S.Y.	S.Y.	S.Y.	L.F.	
H(R)	1142+00 to 1143+16	LT					116				116	
F(R)	1142+00 to 1142+00	LT					100				100	
G-F(R)	1140+42.81 to 1142+00	LT					158				158	
I-D	1138+74	SB	0.3	72	1							144
I-D	1141+03	SB										
F-D	1143+50	SB						64			17	
H-D	1143+38	LT		6		1						192
	Road TOTAL		0.3	80	1	1	158	64			17	

* 25 per cent

2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39
FRA-62-20.83

CALC SAS 10-69
CHK. WDR 11-69



NOTES

1. For Ramp 'D' Plan, See Sheet No. 91
2. For Ramp 'D' Profile, See Sheet No. 98
3. For Ramp 'H' & USR 62 SB Pavement Details See Sheet No. 167
4. For Median Barrier Rail Around Sign Posts Use Standard Drawing Number GR-6 Except; For the 7'-0" F/F to Rail Use 6'-0" F/F to Rail.
5. For USR-62 S.B. Cross Sections See Sheet No. 196-199
6. For Ramp D Cross Sections See Sheet No 116-117

REF	STATION TO STATION	SIDE	Guard Rail Type 3	Barrier Rail Type 3	GDG Approach End Assy.	GDG Bridge Term. Assy.	GDG Anchor Assy.
			L.F.	L.F.	Ea.	Ea.	Ea.
1GR	1150+07.38 to 1160+00	Lt	925.32	580.00			
2GR	1150+58 to 1152+20.5	Lt	162.5		1	1	
3GR	1153+00 to 1155+00	Rt	200.0		1		1
4GR	1152+33 to 1154+33	Lt	200.0		1		1
	RURAL TOTAL		1387.72	580.00	3	1	2

** 906.02 Class III or 706.08
* As per plan

REF	STATION TO STATION	SIDE	603 Type B 42" L.F.	603 Type B 27" L.F.	603 Type C L.F.	606 Shld Inlet EA.	606 Shld Inlet EA.	605 Shallow S.F.	660 Special Berm & Slope Prof. * SY.	667 Jute Matting for detail SY.	Sht. No. for detail Ramp F	Ramp D	Under USR 62 SB
1-UD	1150+25 to 1157+58	Lt			10			723					
2-UD	1153+00 to 1157+58	Rt	32					458			198	1	D
3-UD	1157+68 to 1160+00	Lt						236					
4-UD	1157+67 to 1160+00	Rt						236					
1-D	1157+50 to 1158+00	Rt									198		
2-D	1156+90 to 1157+58	Lt		236							198		
3-D	1156+58 to 1157+22	Rt									125		
4-D	1158+05 to 1159+75	Rt									125		
5-D	1150+15	Rt							91				
	RURAL TOTAL		32	236	10	1	1	1655	91	250			

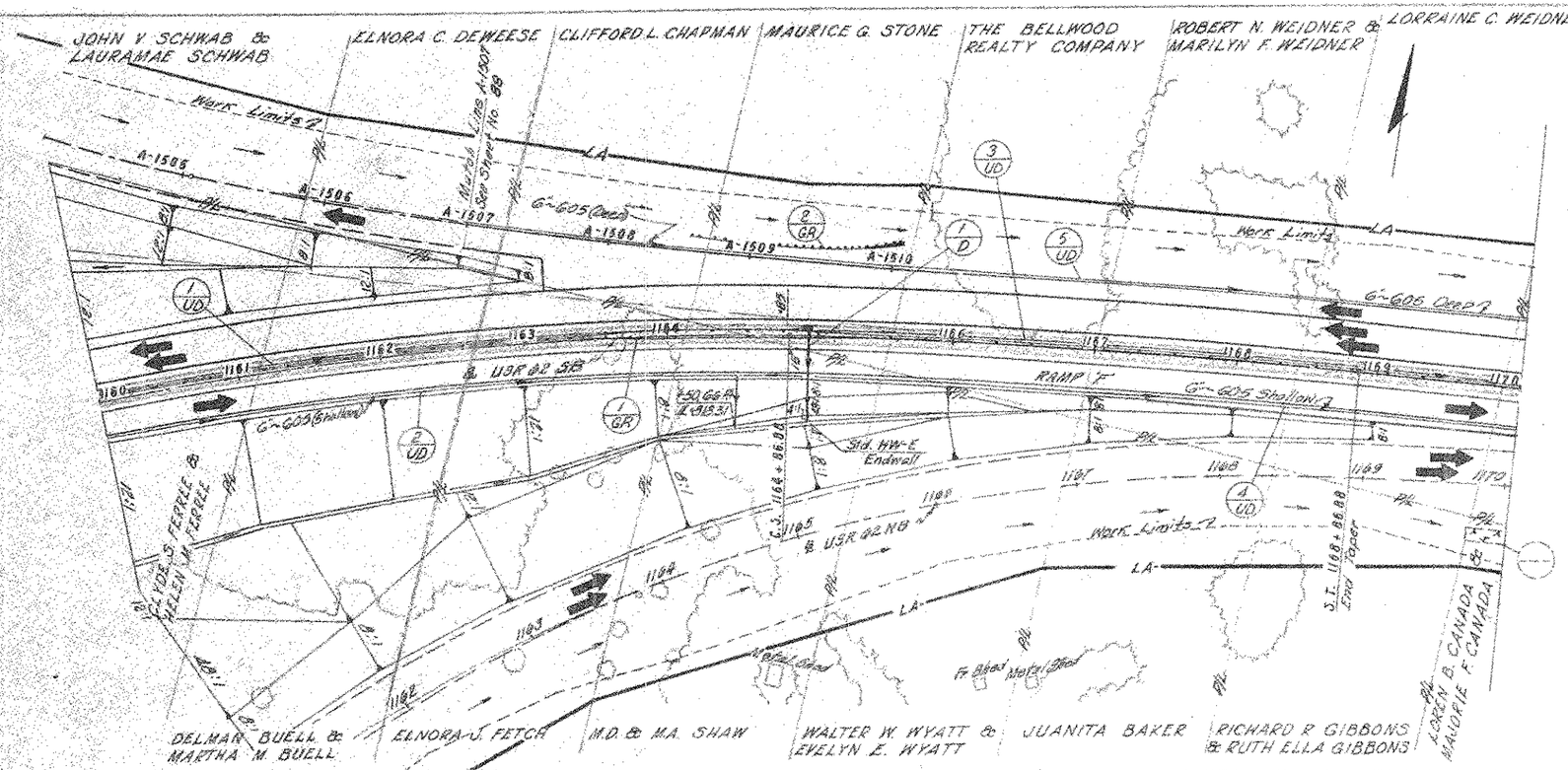
USR 62 SB 1150+00 TO 1160+00

SHEET NO.	STATE	PROJECT		
2	OHIO			

178

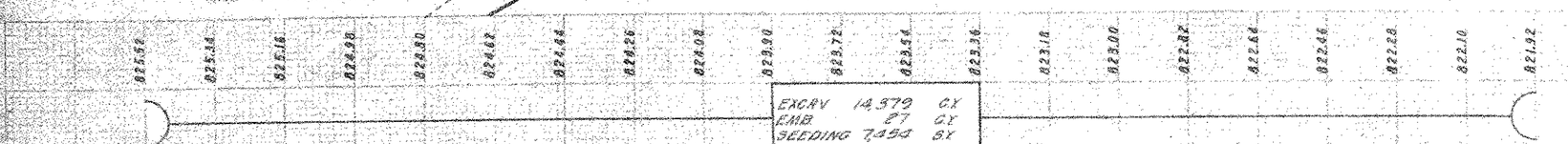
FRANKLIN COUNTY
FRA-270-25.39
FRA-62-20.83

CALC. SAS 10-69
CHK. WDR 11-69

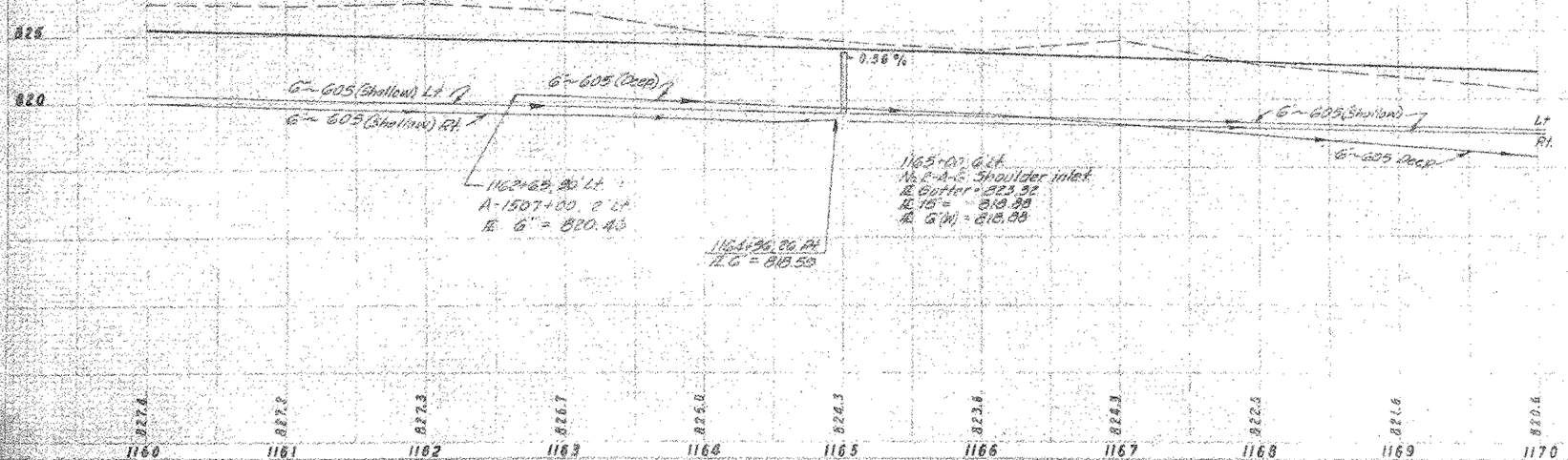


NOTES

1. For Ramp 'A' Plan See Sheet No. 88
2. For Ramp 'A' Profile, See Sheet No. 94
3. For Ramp 'F' & U.S.R. 62 S.B. Pavement Details See Sheet No. 165
4. For U.S.R. 62 N.B. Plan & Profile, See Sheet No. 216
5. For Ramp 'F' & U.S.R. 62 N.B. Pavement Details See Sheet No. 166
6. For Median Barrier Rail Around Sign Posts Use Standard Drawing Number S.P.-6 Except, For the 7'-0" F/F to Rail Use 6'-0" F/F to Rail
7. For U.S.R.-62 S.B. Cross Sections see sheet No. 199-201
8. For U.S.R.-62 N.B. Cross Sections see Sheet No. 228-230
9. For Ramp 'A' Cross Sections see sheet 106-109



REF	STATION TO STATION	SIDE	606 Barrier Rail Type S	606 Appr. End Assy	606 Anch. Assy	606 Guard Rail Type S
			L.F.	EA	EA	L.F.
FGR	1160+00 to 1170+00	Rt.	800	-	-	400
FGR	A-1508+36 to A-1510+36	Lt.	-	1	1	150
	RURAL TOTAL		800	1	1	550



REF	STATION TO STATION	SIDE	604 Concrete Bridge Slope	603 Type 6"	603 Type B" 15"	603 End Sect.	605 Shallow 6"	605 Deep 6"	Underdrain Detail	For details see sheet
			CY	L.F.	LT	EA	L.F.	L.F.		
FUD	1160+00 to 1165+00	Lt.		10			330			
FUD	1160+00 to 1162+65	Rt.		10			265		4	200
300	1165+00 to 1170+00	Lt.					396			
400	1165+00 to 1170+00	Rt.					396			
540	A-1507+00 to 1170+00	Lt.						247		
1-D	1165+00	Rt.	45		66	1				200
	RURAL TOTAL		45	20	66	1	2003	747		

USR 62 S.B. 1160+00 TO 1170+00

FED. ROAD DIST. NO.	STATE	PROJECT		
2	OHIO			

179

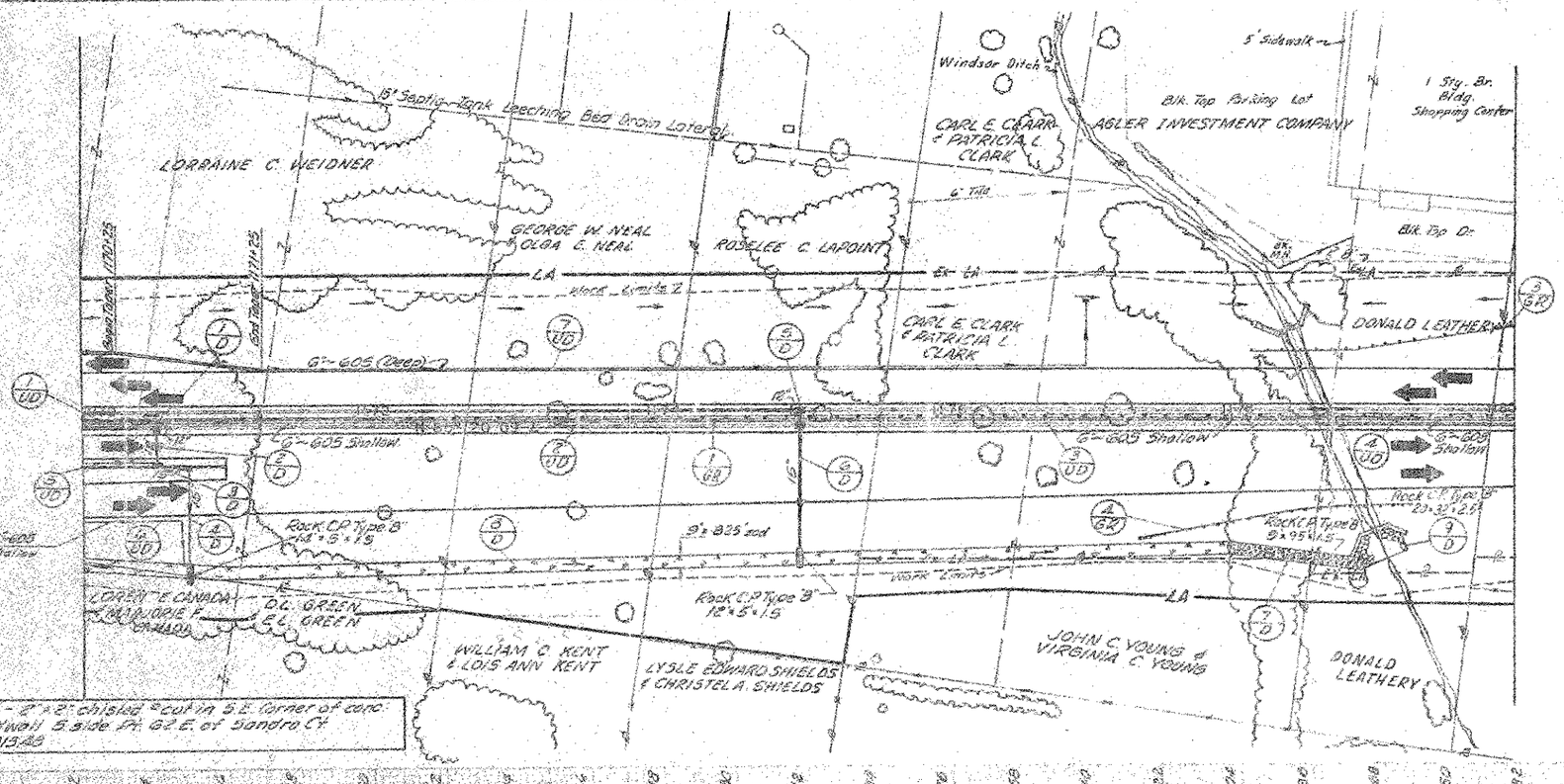
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

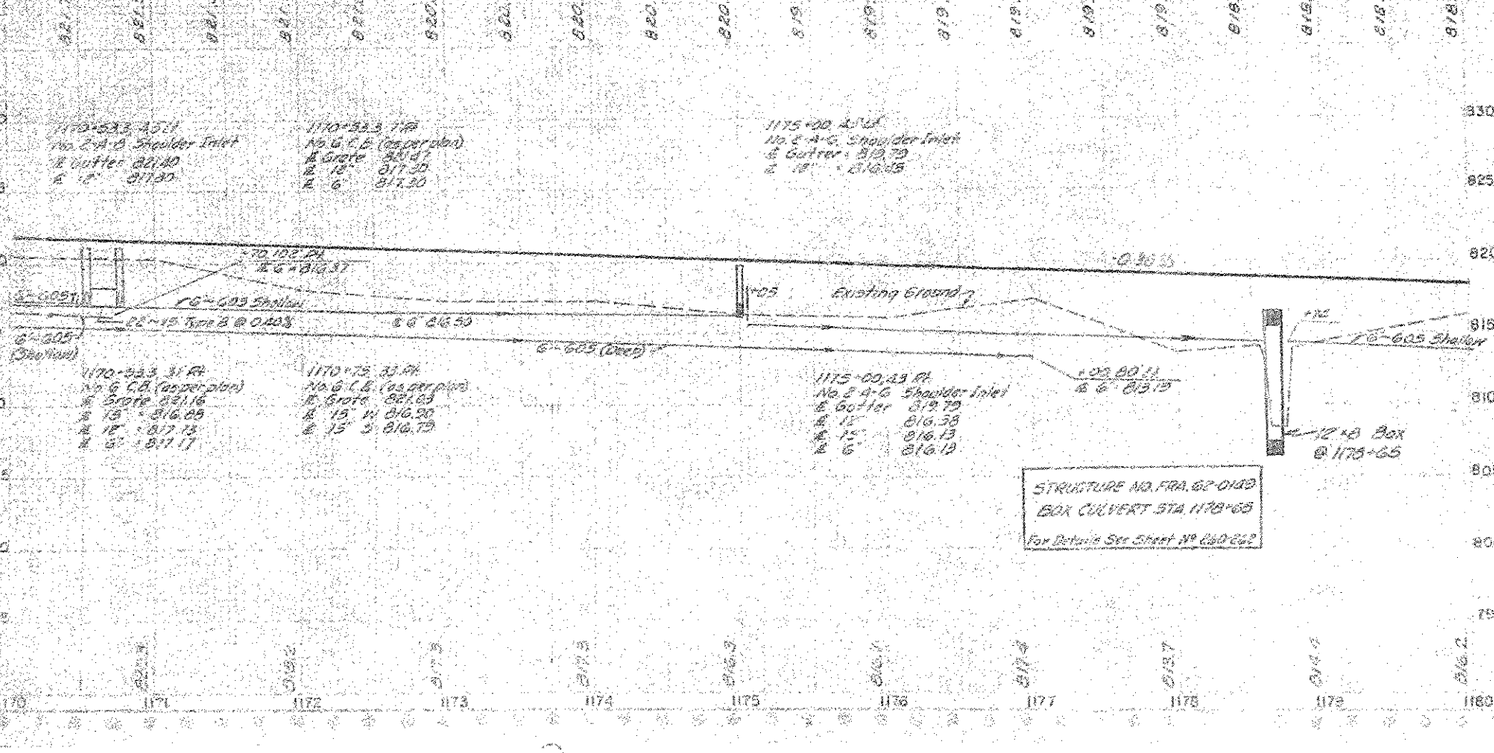
TLC SAS 10-68
SUR. CW DD 11-69

a as per plan

REF.	STATION TO STATION	SIDE	601 Class C Concrete CY	602 Concrete Masonry CY	603 Type B 12" LF	603 Type B 15" LF	604 Hood C.B. # Ea.	604 C.B. 2 A-G Ea.	604 C.B. 2 A-G Ea.	605 Pipe Underdrain LF	605 Underdrain Outlet LF	606 Guard Rail Class A LF	606 Guard Rail Class B LF	606 Guard Rail Terminal Section Ea.	607 Fence Type 4 LF	607 Fence Type 5 LF	607 Fence Gateway Ea.	608 Concrete Walk SY	609 Curbing LF	Remarks
C-D	1170+53.3	Lt			10			1												601
C-D	1170+53.3 T.R.	Rt			28			1												701
C-D	1170+53.3 to 1170+75	Lt				22		1												801
C-D	1170+75	Rt		0.3		66		1												901
C-D	1175+00	Lt			3				1											1001
C-D	1175+00	Rt		0.2		88			1											1101
C-D	1178+00 to 1179+00	Rt	64																	
C-D	1170+00 to 1178+00	Rt																825		
C-D	1178+88 to 1179+27	Rt	6.1																	
C-UD	1170+00 to 1170+53	Lt				10								1						
C-UD	1170+58 to 1175+00	Lt				10								43						1
C-UD	1175+05 to 1178+38	Lt				10								332						
C-UD	1178+43 to 1180+00	Lt												160						
C-UD	1170+00 to 1170+53	Rt				10								43						
C-UD	1170+00 to 1170+70	Rt				10								95						
C-UD	1170+00 to 1179+00	Rt				10						765							2	1	285
C-GR	1170+00 to 1180+00	Rt																1000		
A-GR	1178+22 to 1177+97	Lt												1	1					
B-GR	1177+38 to 1179+12	Rt												1	1					
RURAL TOTALS			70.1	0.5	12	178	6	3	1	2		765	1080	2	2	1000	350	825		

NOTES
1. For Ramp A and USRGB 5.6 Pavement Details, See Sheet No. 163
2. For USR-62-A.B See Sheet No. 816
3. For USR-62-5.6 See Sheet No. 178





USR 62 STA. 1170 TO 1180

1184+50

STATE	STATE NO.	PROJECT	SHEET NO.
2	OHIO		180

FRANKLIN COUNTY
FRA-270-25.39 N
FRA 62-20.83

CALC: SAS 10-69
CHK: WDH 11-69

Item 801 Concrete Blocking Class "E"
4 Ea. 16"x45° Bends x 0.8 = 3.2 C.Y.
4 Ea. 16"x22½° Bends x 0.5 = 2.0 C.Y.
1 Ea. 16"x6" Tee x 0.2 = .2 C.Y.
1 Ea. 6"x90° Bend x 0.2 = .2 C.Y.
Total 5.6 C.Y.

Item
801 10 L.F. 6" D.I. Pipe M.J. A.S.A. Cl. 4 incl. Fittings Cement Lined (4-R)

8" 304
2" 404 (85-100) on 5" 304

(1/A) Item 304 = [(83×12)(0.667)+(17×12+31×15−π×625×0.20)(0.417)]÷27 = 200 C.Y.
Item 404 = [(17×12)+(31×15)−(π×625×0.20)]×0.167÷27 = 1.7 C.Y.

NOTE: Items 801, 802, 805 and 818 are City of Columbus Specifications

* Cement Lined Ductile Iron Pipe, A.S.A. Cl. 3 with mechanical joints including fittings

801 16"x6" D.I. Anchoring Tee	802 16"x6" Anchoring 90° Ell	805 16" Gate Valve	REF	STATION TO STATION	SIDE	202 Excavation Common	601 202 Embankment	602 202 Seeding	603 Type B Concrete Masonry	603 Type B	604 6" Fire Hydrant Removed & Reset as per plan	814 Water Main M.J.	801 16" M.J.	805 16" Gate Valve	818 Fire Hydrant Assembly	
						S.Y.	L.F.	C.Y.	C.Y.	12"	18"	Ea.	L.F.	Ea.	Ea.	
				1-0 1183+00	℄					8		1				206
				2-0 1183+00	RH			5	0.3		78	1				604
				3-0 1186+05 to 1186+55	℄					10		1				604
				4-0 1186+55 to 1190+00	℄					346		1				604
				5-0 1185+31 to 1186+08	LH RH								286			206
			25	6-0 1186+00	RH									1	1	
				7-0 Stygler Rd. - 7+90	℄											
				1-R 1183+60	℄	36										
				2-R 1186+10	RH	12										
				3-R 1185+31 to 1186+08	LH RH	270										
1	1			4-R 1185+03 ℄ +87 RH	LH RH							1				
1	1	25		U-202(5) TOTALS		48	270	5	0.3	364	78	4	1	286	1	1

* Barrier Type f Rural

REF	STATION TO STATION	SIDE	202 Excavation Common	202 Excavation Rock (85-100) Type 1	202 Excavation Rock (85-100) Type 2	603 Type B Shoulder	605 Type C Shoulder	606 Type C Guard Rail	606 Type C Guard Rail Terminal Assembly	606 Type C Guard Rail Terminal Assembly	606 End Anchorage Assembly Type B	606 Guard Rail Bending 6' Radius
								6'	6'			6'
			Ea	C.Y	C.Y	L.F	L.F	L.F	L.F	L.F	Ea	Ea	L.F
1-A	1186+03	RH		20	2								
1-GR	1185+55	LH						25		2			
2GR	1186+10	RH						25		2			
3-GR	1180+00 to 1184+03.25	℄							303		1	18.5	
3-R	1181+00	LH	1										
1-UD	1190+85 to 1183+00	RH					10	285					1
2-UD	1183+25 to 1186+45	RH					10	330					1
3-UD	1183+25 to 1190+00	RH					130	565					
4-UD	1183+00 to 1190+00	LH					148	552					
5-UD	1187+88 to 1190+00	RH						216					
6-UD	1190+00 to 1180+95	RH						85*					
U-202(5) TOTALS			1	20	2	20	278	747	1117	50	303	4	1
RURAL TOTALS								85*				85*	

NOTES
1. For Intersection Details See Sheet No. 168
2. For Stygler Rd. Plan & Profile See Sheet 231
3. For Stygler Rd. Cross Sections See Sheets 232, 233
4. For U.S.R.-62 Cross Sections See Sheets 203-205
5. For Water Main profile See Sheet 206

(1/R) [(21+17)/2](17)÷9 = 35.95 S.Y.

(2/R) (18)(6)÷9 = 12.0 S.Y.

Fire Hydrant Reset

16"x6" D.I. Anchoring Tee M.J. and 16" DI Adapters (Transite to D.I. Tee)
6" Anchoring 90° Ell M.J.
6" Gate Valve M.J.
℄ INT. Sta. 1187+31.90 ℄ USR-62
Sta. 10+00 Stygler Road
See Sheet No. 231

Shopping Ctr.
AGLER INVESTMENT CO
THE STANDARD OIL CO
Begin Taper Sta. 1184+00
MORRIS L. MATTLIN
STYGLER ROAD RELOCATED
Begin Taper Sta. 1189+30
SHELL STA.
End Blk Top Dr.
Gravel Area
Blk Top Area
Ex. R/W
Ex-LA
Work Limits
USR-62 1180+85
I-270-5(18)117 U-202(5)
Temp Plug for Testing & Chlorinating
Found Cap
Found Conc.
6" Type B
6"-60S (Deep)
6"-60S (Shallow)
Begin Taper Sta. 1184+52.2 Lt.
10" Concrete Pipe (Abandon)
Std. Nut-E Endwall
Rock C.P. Type B
11'-5" x 1.9'
Reconnect Exist. 3/4" House Service
Temp. 6" D.I. Pipe & Hyd. Dr. L=20 W=12' Twp.
Septic Tank
Transite to M.J. ET Pipe Adapter
Plug at Main
Prop. 6" Water Line
Prop. 16" W.L.
Ex. 16" W.L.
Ex. 12" W.L.
Ex. 8" W.L.
Ex. 6" W.L.
Ex. 4" W.L.
Ex. 2" W.L.
Ex. 1½" W.L.
Ex. 1" W.L.
Ex. 3/4" W.L.
Ex. 16" Sanitary Sewer
Ex. 8" Sanitary Sewer
Ex. 6" Sanitary Sewer
Ex. 4" Sanitary Sewer
Ex. 2" Sanitary Sewer
Ex. 1½" Sanitary Sewer
Ex. 1" Sanitary Sewer
Ex. 3/4" Sanitary Sewer
Ex. 16" Storm Sewer
Ex. 8" Storm Sewer
Ex. 6" Storm Sewer
Ex. 4" Storm Sewer
Ex. 2" Storm Sewer
Ex. 1½" Storm Sewer
Ex. 1" Storm Sewer
Ex. 3/4" Storm Sewer
Ex. Gas Line
Ex. Telephone
Ex. Electric
Ex. Overhead Wire
Ex. Fence
Ex. Guard Rail
Ex. Sign
Ex. Mail Box
Ex. Hydrant
Ex. Valve
Ex. Manhole
Ex. Inlet
Ex. Catch Basin
Ex. Gas Valve
Ex. Gas Meter
Ex. Gas Station
Ex. Septic Tank
Ex. Leach Field
Ex. Well
Ex. Pump
Ex. Tank
Ex. Building
Ex. Garage
Ex. Shed
Ex. Barn
Ex. Silo
Ex. Greenhouse
Ex. Trailer
Ex. Swimming Pool
Ex. Tennis Court
Ex. Basketball Court
Ex. Baseball Diamond
Ex. Football Field
Ex. Golf Course
Ex. Cemetery
Ex. Church
Ex. School
Ex. Hospital
Ex. Library
Ex. Post Office
Ex. Fire Station
Ex. Police Station
Ex. City Hall
Ex. Courthouse
Ex. Jail
Ex. Airport
Ex. Railroad
Ex. Bridge
Ex. Culvert
Ex. Dam
Ex. Lake
Ex. River
Ex. Stream
Ex. Creek
Ex. Ditch
Ex. Swamp
Ex. Marsh
Ex. Woods
Ex. Orchard
Ex. Vineyard
Ex. Nursery
Ex. Farm
Ex. Pasture
Ex. Meadow
Ex. Cultivated Field
Ex. Uncultivated Field
Ex. Fallow Field
Ex. Stubble Field
Ex. Corn Field
Ex. Wheat Field
Ex. Oat Field
Ex. Soybean Field
Ex. Hay Field
Ex. Alfalfa Field
Ex. Clover Field
Ex. Timothy Field
Ex. Grass Field
Ex. Weeds
Ex. Brush
Ex. Trees
Ex. Shrubs
Ex. Vines
Ex. Flowers
Ex. Garden
Ex. Lawn
Ex. Pavement
Ex. Curb
Ex. Gutter
Ex. Sidewalk
Ex. Driveway
Ex. Parking Lot
Ex. Loading Dock
Ex. Ramp
Ex. Steps
Ex. Handrail
Ex. Guardrail
Ex. Bollard
Ex. Light Pole
Ex. Flood Light
Ex. Street Light
Ex. Traffic Light
Ex. Traffic Sign
Ex. Parking Meter
Ex. Fire Hydrant
Ex. Mail Box
Ex. Newspaper Box
Ex. Bench
Ex. Trash Can
Ex. Ash Tray
Ex. Flag Pole
Ex. Monument
Ex. Marker
Ex. Benchmark
Ex. Control Point
Ex. Property Line
Ex. Right of Way
Ex. Easement
Ex. Building Line
Ex. Setback Line
Ex. Zoning Line
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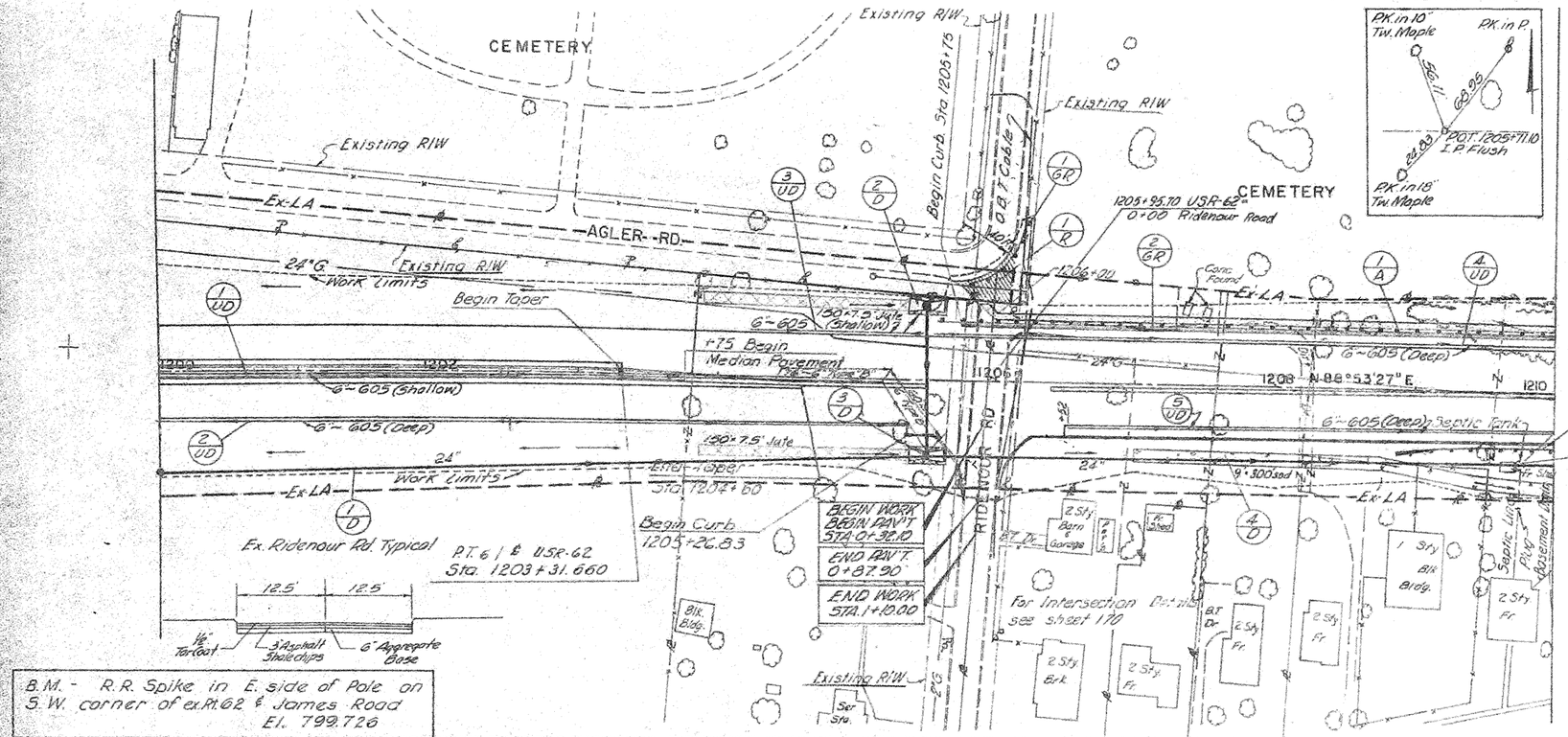


B.M. - R.R. Spike in E. side of Pole on S.W. corner of ex. Rt. 62 & James Road
El. 799.726

$\frac{1}{R}$ $[25 \times 13 + \frac{1}{2}(19)(13) + (40)(20) - \frac{\pi}{2}(40)^2] \div 9 = 88.0$ S.Y.

$\frac{1}{A}$ $414 \times 5 = 2070$ S.F.

FED. ROAD DIV.	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39 N
FRA 62-20.83

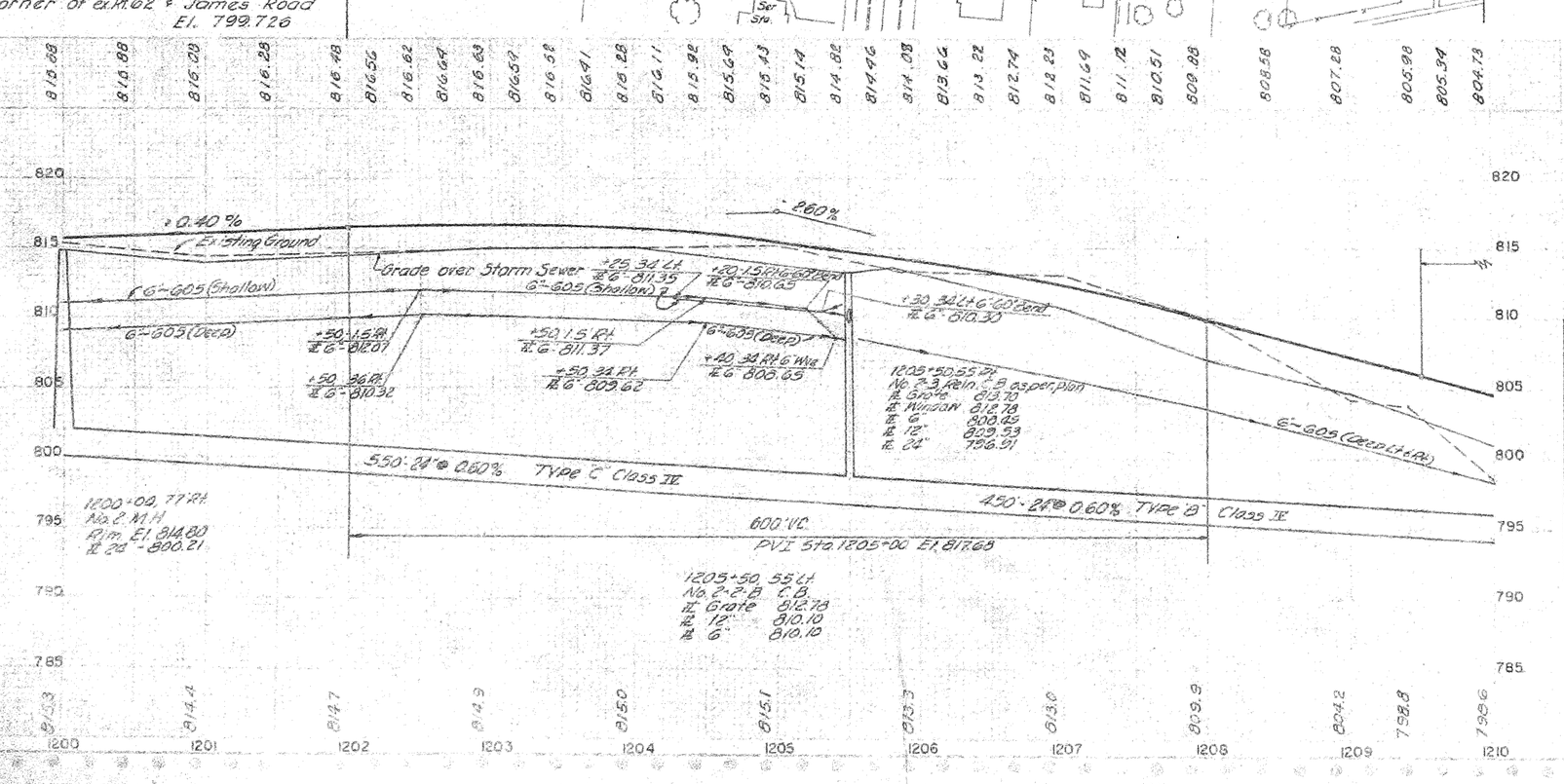
CALC: SAS 10-69
CHK: DWD 11-69

NOTE:
* 1. Guard Rail Flared to post No. 10
2. For Ridenour Rd. profile and cross-sections see sheet 208
3. For U.S.R-62 Cross sections see sheet No. 207.209

* As per plan

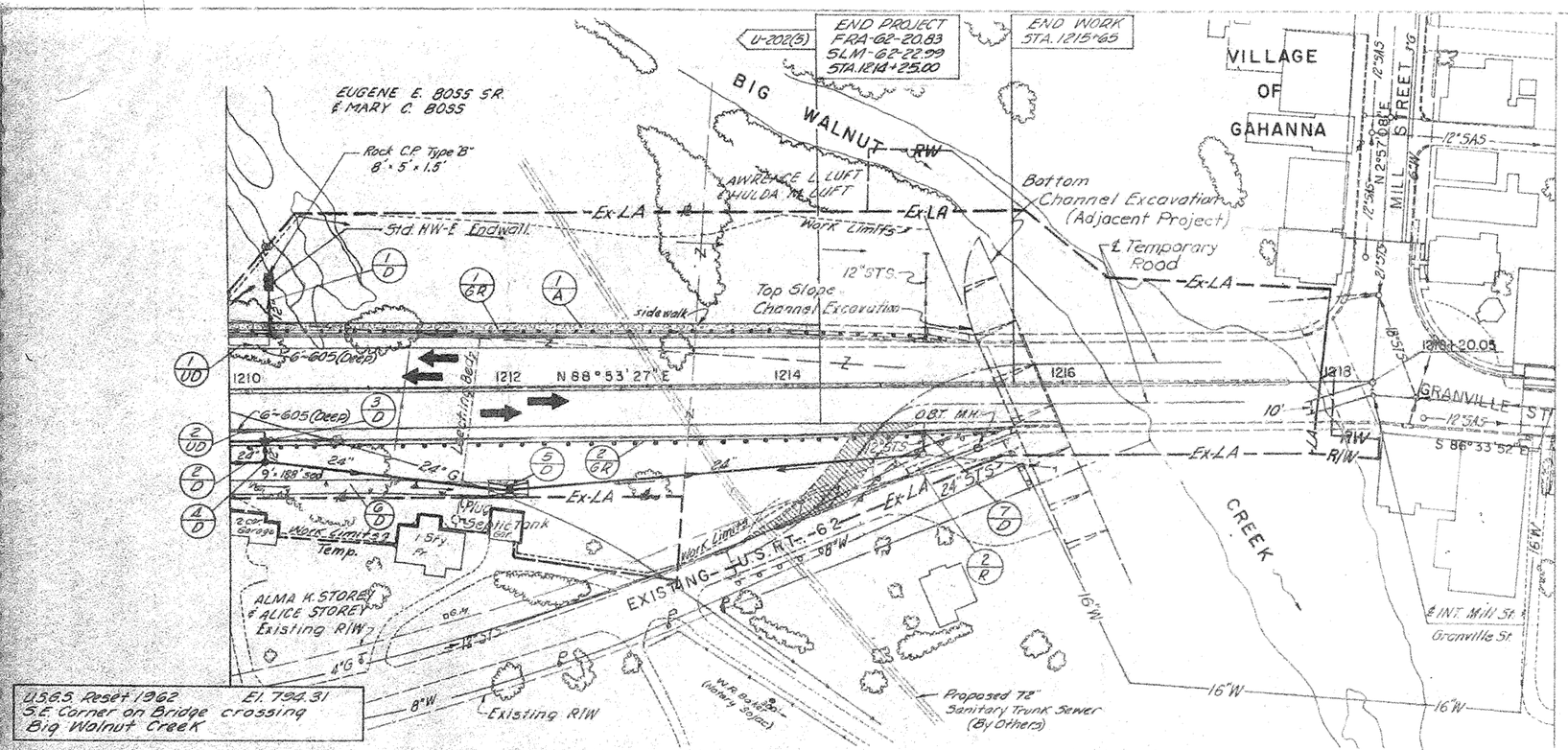
REF	STATION TO STATION	SIDE	202	601	603			604	608	660	667	SPECIAL
			Ex. Pvmt. Removed & Disposed	Pavement Mark Tape 6"	Type "B" 6" Class II	Type "B" 6" Class III	Type "B" 6" Class IV	Conc. Mix. Sidewalk 4"	Sodding	Temporary Ditch	Temporary Silt Fence	Cleaning & Closing of Septic Tank
					18"	24"	24"					
			S.Y.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	S.Y.	S.Y.	Ea.
1-D	1200+00 to 1205+50	Rt.				550						
2-D	1205+50	L&Rt.		20	110			1		3	125	
3-D	1205+50 to 1210+00	Rt.		20		450			1	3	125	
4-D	1207+00 to 1210+00	Rt.								300		
1-A	1205+87 to 1210	Lt.								2070		
1-R	1205+00	Lt.	88									
2-R	1209+75	Rt.										1
	TOTALS U-202(5)		88	40	110	450	550	1	1	2070	318	250	1

REF	STATION TO STATION	SIDE	603		605		606					
			TYPE "F" 6"	TYPE "B" 6"	Shallow 6"	Deep 6"	Guardrail Type 5	Guardrail Type 6	Guardrail Type 7	Guardrail Type 8	Guardrail Type 9	Guardrail Type 10
			L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	Ea.
1-UD	1200+00 to 1205+50	Rt.		136	445							2
2-UD	1200+00 to 1205+40	Rt.				340						
3-UD	1204+25 to 1205+46	Lt.	10		138						1	1
4-UD	1205+50 to 1210+00	Lt.				446						
5-UD	1206+32 to 1210+00	Rt.				328						
1-GR	1206+00	Lt.						25				2
2-GR	1205+62 to 1210+00	Lt.						257.5				1
3-GR	1203+31.5 to 1210+00	Rt.						112.5	1			
	TOTALS U-202(5)		10	136	583	1334	625	550	1	3		



Excavation	2715	C.Y.
Embankment	2038	C.Y.
Seeding	9885	S.Y.

USR-62 - STA 1200+00 TO 1210+00



USGS Reset 1962
El. 794.31
S.E. Corner on Bridge crossing
Big Walnut Creek

1/A 425 x 5 = 2125 S.F.

2/R 80 x 5 = 400 S.F.

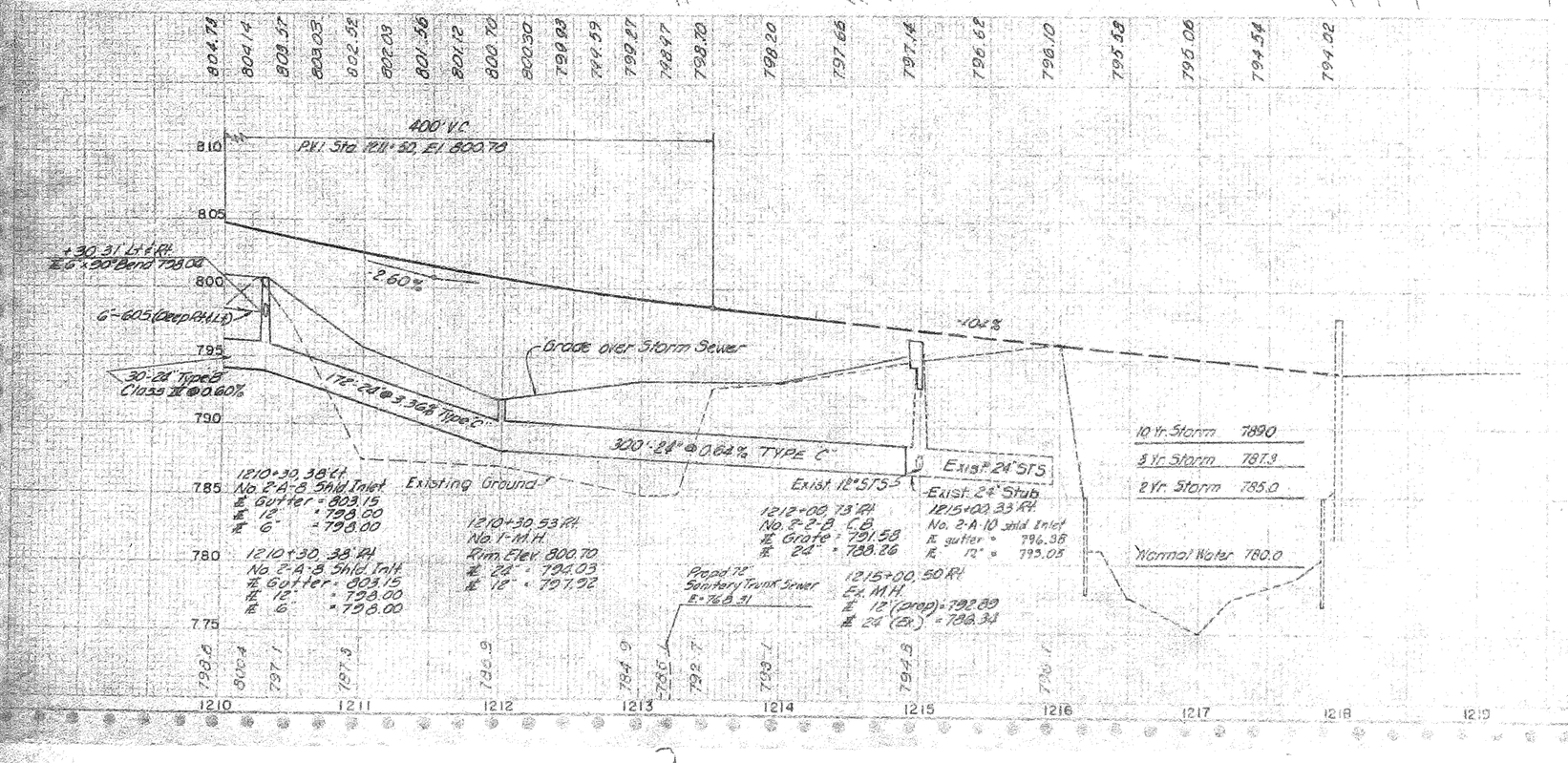
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CALC. SAS 10-69
CHK. WDH 11-69

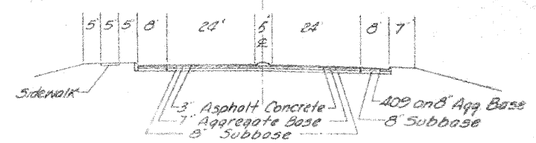
FRANKLIN COUNTY
FRA.-270-25.39 N
FRA. 62 - 20.83

NOTE:
1. For USR-62 Cross-Sections See Sheet No. 209-211

REF.	STATION to STATION	SIDE	601 ROCK C.P. TYPE "B"	601 PAVED GUTTER TYPE "C-2"	602 CONCRETE HEADWALL	603 TYPE "B" 706.02 CLASS III	603 TYPE "C"	603 TYPE 2-A-2.8 SHLD. INLET	604 No. 1 M.H.	604 No. 2-2.8 C.B.	604 2-A-2.8 SHLD. INLET 6'-DEEP	605 GUIDE RAIL TYPE "B"	606 GUIDE RAIL BRIDGE TERMINAL ASSEMBLIES	608 SIDEWALK CONCRETE	608 SIDEWALK EX. SIDEWALK REMOVED	660 SEEDING
						24"	15"	24" Ø								
			C.Y.	L.F.	C.Y.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	L.F.	L.F.	Ea.	S.F.	S.Y.
1-D	1210+30	LH	3		0.3		32				1					20
2-D	1210+00 to 1210+30	RH				30										
3-D	1210+30	RH					14				1					20
4-D	1210+30 to 1212+00	RH						172	1							20
5-D	1212+00 to 1215+00	RH		20				300		1					9	210
6-D	1210+00 to 1211+88	RH													103	
7-D	1215+00	RH						16	1							
1-UD	1210+00 to 1210+30	LH						8				30			1	210
2-UD	1210+00 to 1210+30	RH						8				30			1	210
1-A	1210+00 to 1212+25	LH											2125			
2-R	1214+90 to 1215+65	RH														400
1-GR	1210+00 to 1215+125												525			
2-GR	1210+00 to 1215+50												550	1		
	TOTALS U-202(5)		3	20	0.3	30	62	472	1	1	1	2	60	1	2125	197	400



EXISTING U.S. 62 TYPICAL

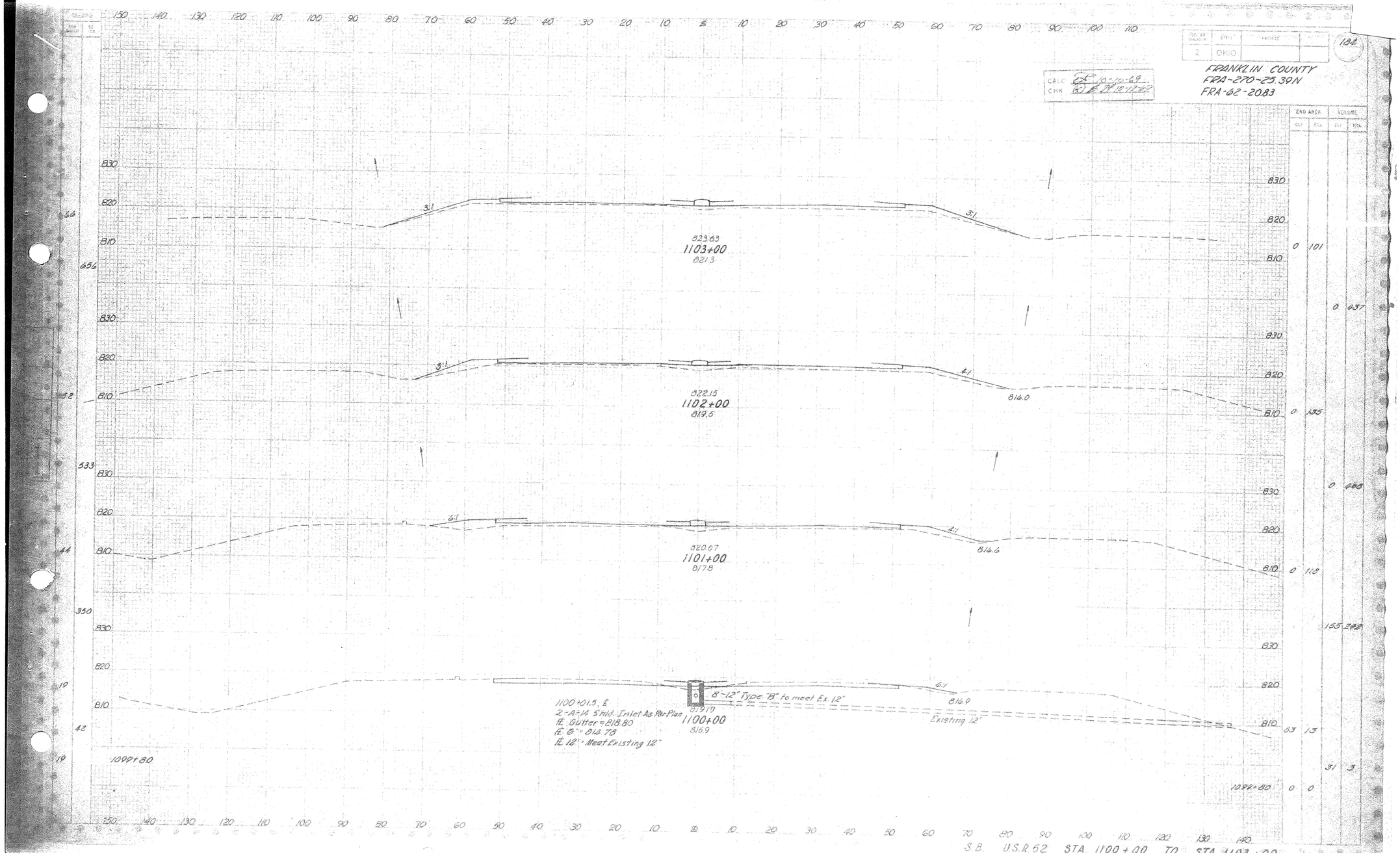


LEGEND

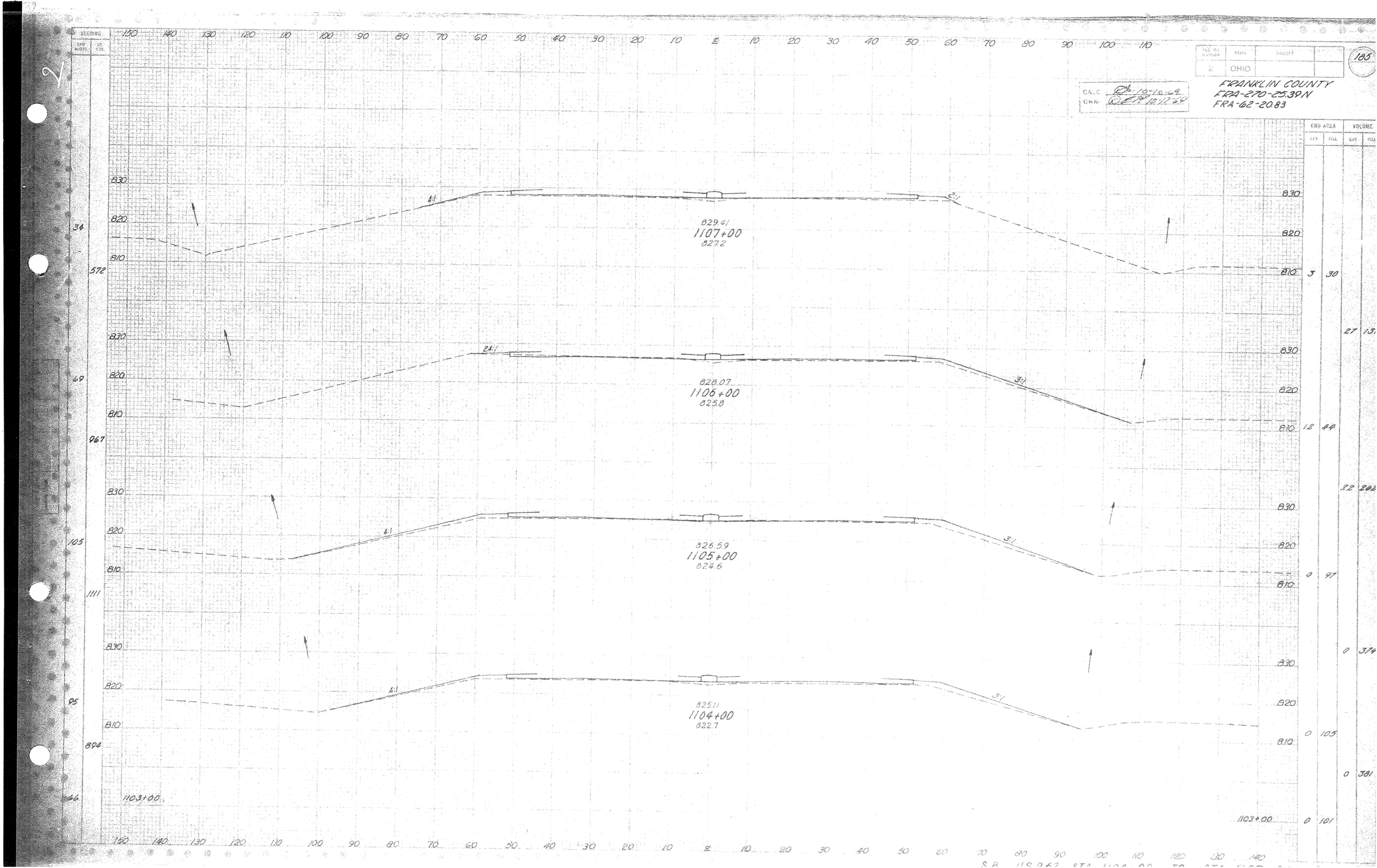
Asphalt Temporary See General Notes for Removal

Excavation	602 C.Y.
Embankment	22,407 C.Y.
Seeding	9856 S.Y.
203 Borrow, using granular material - 5,161 C.Y.	

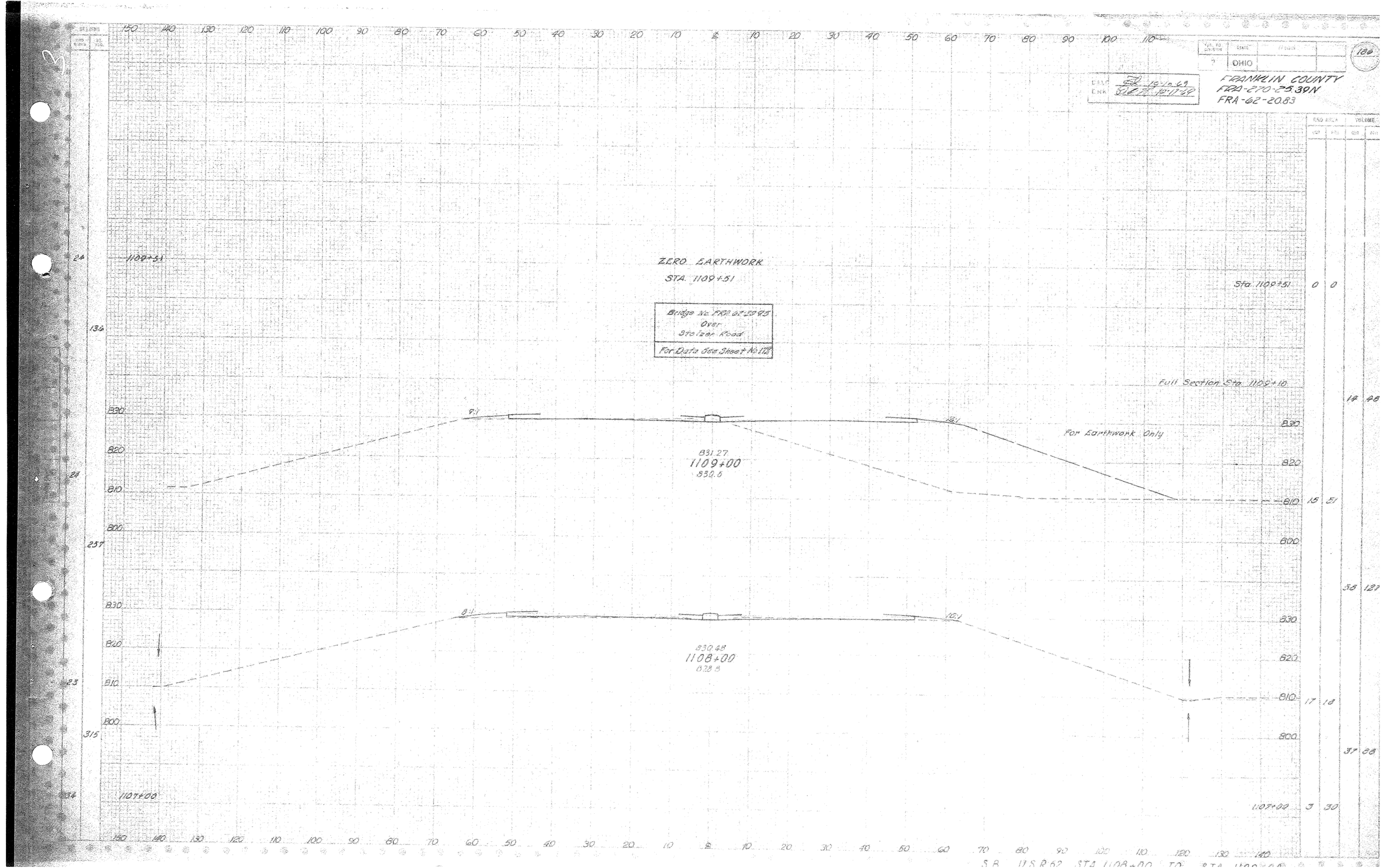
USR-62 STA 1210+00 TO 1220+00



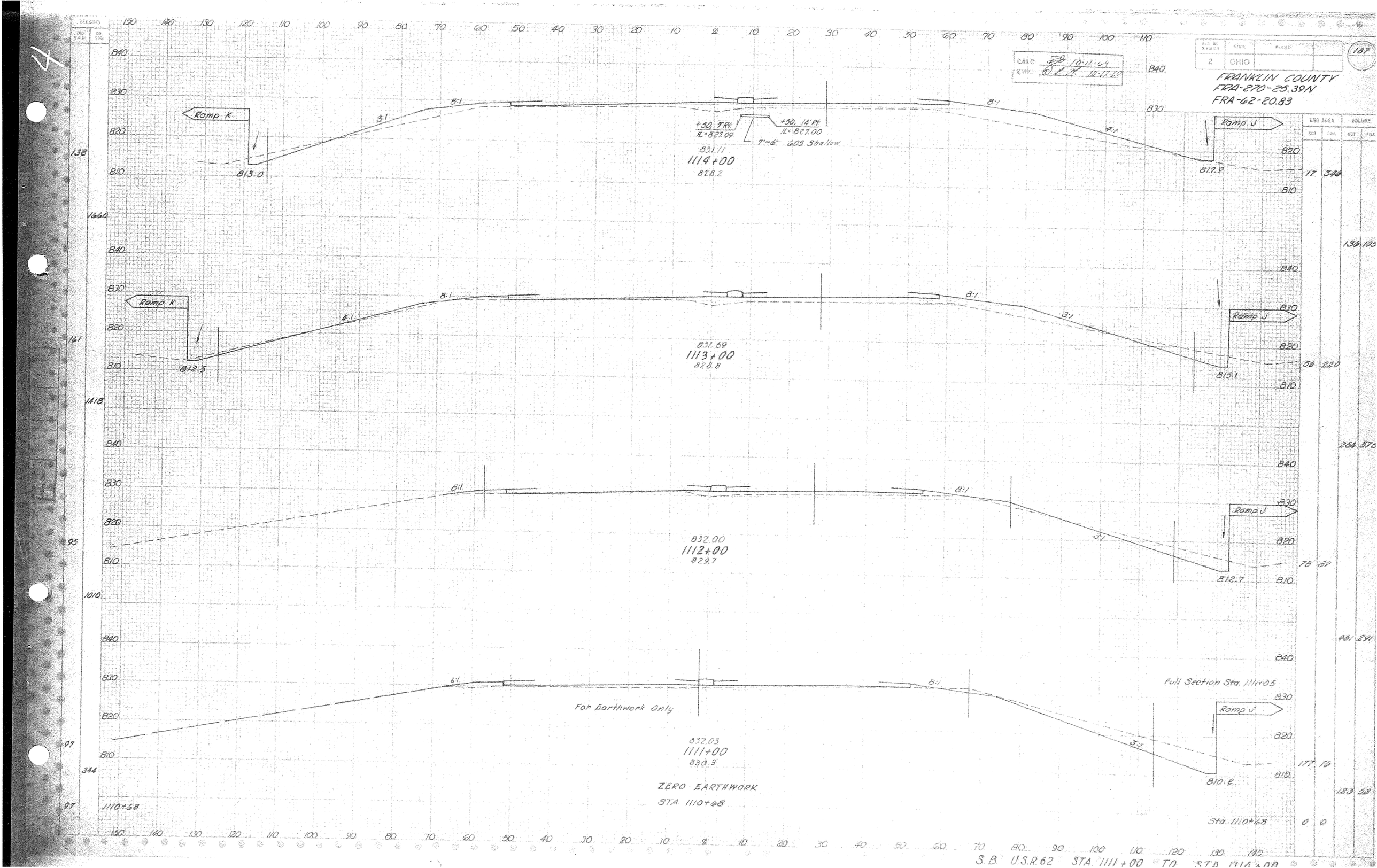
2
OHIO
184
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC 10-10-69
CHK 10-17-69
END AREA
VOLUME
823.63
1103+00
821.3
822.15
1102+00
819.6
816.0
820.67
1101+00
817.8
816.6
819.19
1100+00
816.9
816.9
8"-12" Type "B" to meet Ex. 12"
Existing 12"
1100+01.5, ℄
2-A-14 Shld. Inlet As Per Plan
℄ Gutter = 818.80
℄ 6" = 814.78
℄ 12" = Meet Existing 12"
1099+80
S.B. U.S.R.62 STA. 1100+00 TO STA. 1103+00



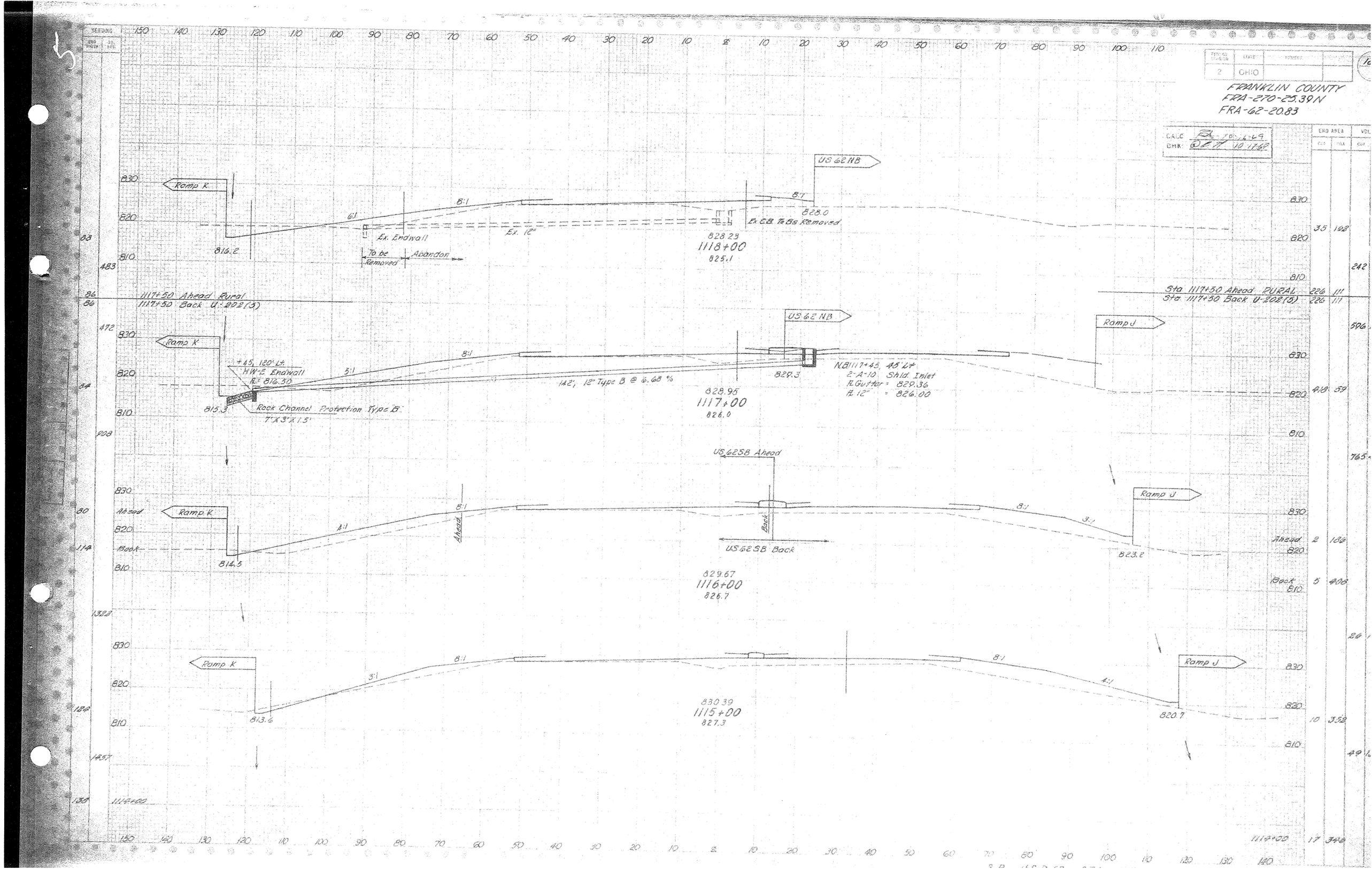
FED. RD. DIVISION 2
STATE OHIO
PROJECT
185
CALC 10-10-69
CHK 10-17-69
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
END AREA
VOLUME
CUT
FILL
829.41
1107+00
827.2
828.07
1106+00
825.8
826.59
1105+00
824.6
825.11
1104+00
822.7
1103+00



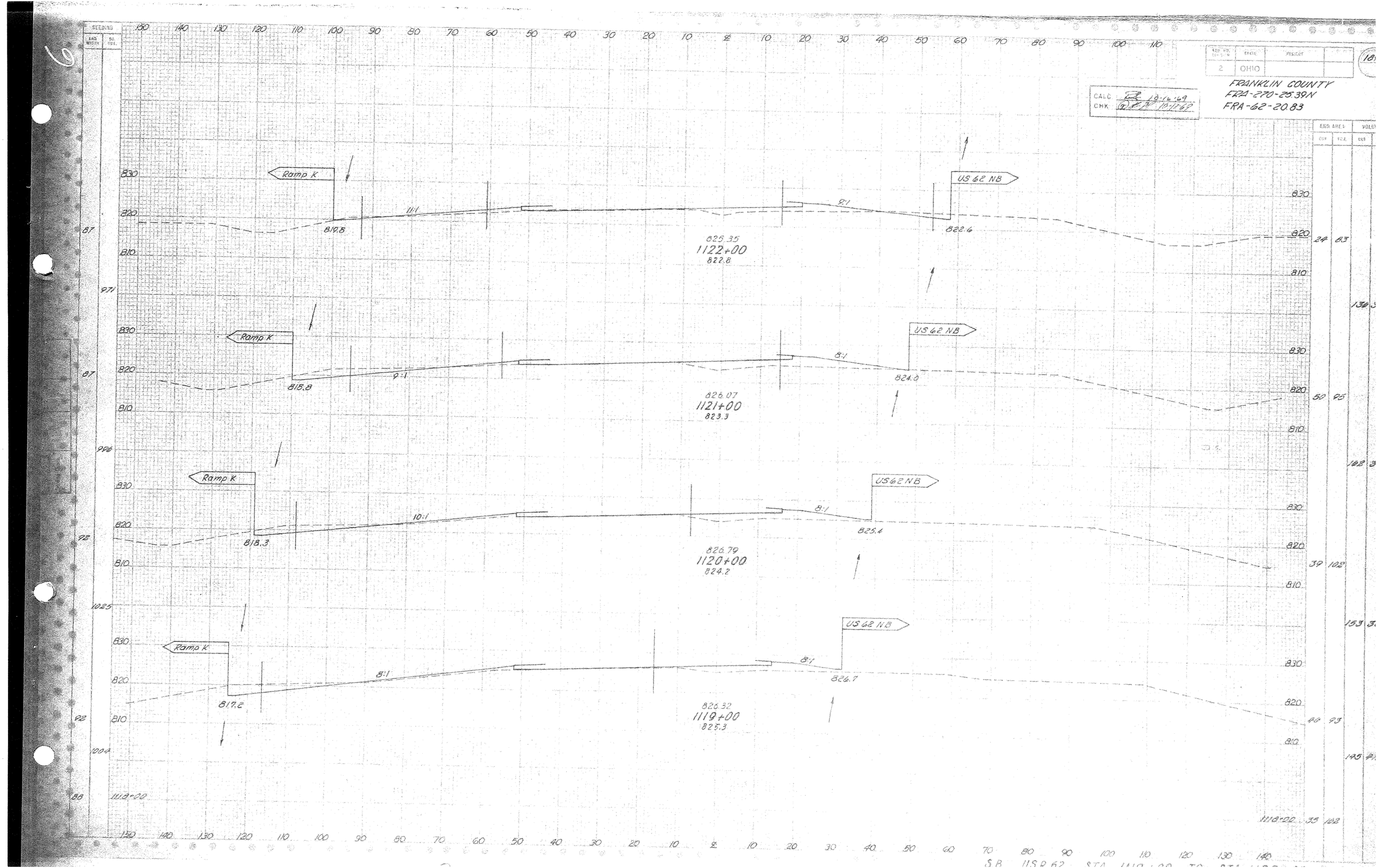
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
ZERO EARTHWORK
STA. 1109+51
Bridge No. FRA 62-20.95
Over
Stelzer Road
For Data See Sheet No. 172
Full Section Sta. 1109+10
For Earthwork Only
831.27
1109+00
830.6
830.48
1108+00
828.8
1109+51
1107+00
Sta. 1109+51
1107+00



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
2
OHIO
187
Ramp K
Ramp J
+50, 7' Rt.
PL=827.09
+50, 14' Rt.
PL=827.00
7'-6" 605 Shallow
831.11
1114+00
828.2
813.0
817.9
831.69
1113+00
828.8
812.5
815.1
832.00
1112+00
829.7
812.7
832.03
1111+00
830.3
810.2
For Earthwork Only
Full Section Sta. 1111+05
ZERO EARTHWORK
STA. 1110+68
Sta. 1110+68
1110+68
S.B. U.S.R.62 STA. 1111+00 TO STA. 1114+00



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
2
OHIO
US 62 NB
Ramp K
Ramp J
Ex. Endwall
To be Removed
Abandon
Ex. 12"
Ex. C.B. To Be Removed
816.2
828.23
1118+00
825.1
828.0
1117+50 Ahead Rural
1117+50 Back U-202(5)
Sta 1117+50 Ahead RURAL
Sta 1117+50 Back U-202(5)
+45, 120' Lt.
HW-E Endwall
FL = 816.50
Rock Channel Protection Type B
7'X3'X1.5'
815.3
142', 12" Type B @ 6.68 %
828.95
1117+00
826.0
829.3
N.B. 1117+45, 45' Lt.
2-A-10 Shld. Inlet
FL Gutter = 829.36
FL 12" = 826.00
US 62 SB Ahead
US 62 SB Back
Ahead
Back
814.5
823.2
829.67
1116+00
826.7
813.6
820.7
830.39
1115+00
827.3
1114+00



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
2
OHIO
CALC 10-16-69
CHK 10-17-69
Ramp K
US 62 NB
11:1
9:1
819.8
822.6
825.35
1122+00
822.8
Ramp K
US 62 NB
9:1
8:1
818.8
824.0
826.07
1121+00
823.3
Ramp K
US 62 NB
10:1
8:1
818.3
825.4
826.79
1120+00
824.2
Ramp K
US 62 NB
8:1
8:1
817.2
826.7
826.32
1119+00
825.3

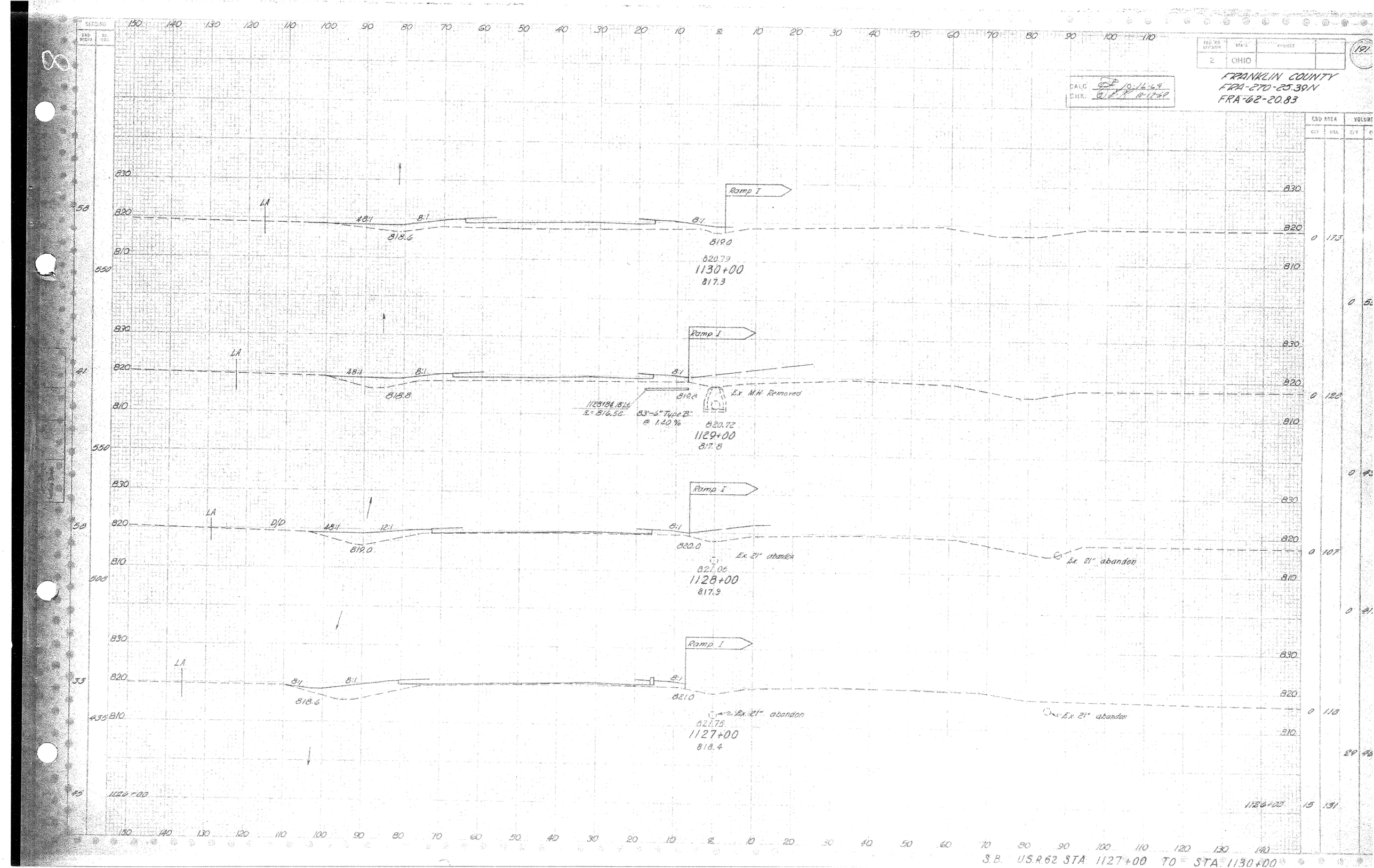
FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

CALC EL 10/6/69
CHK EL 10/8/69

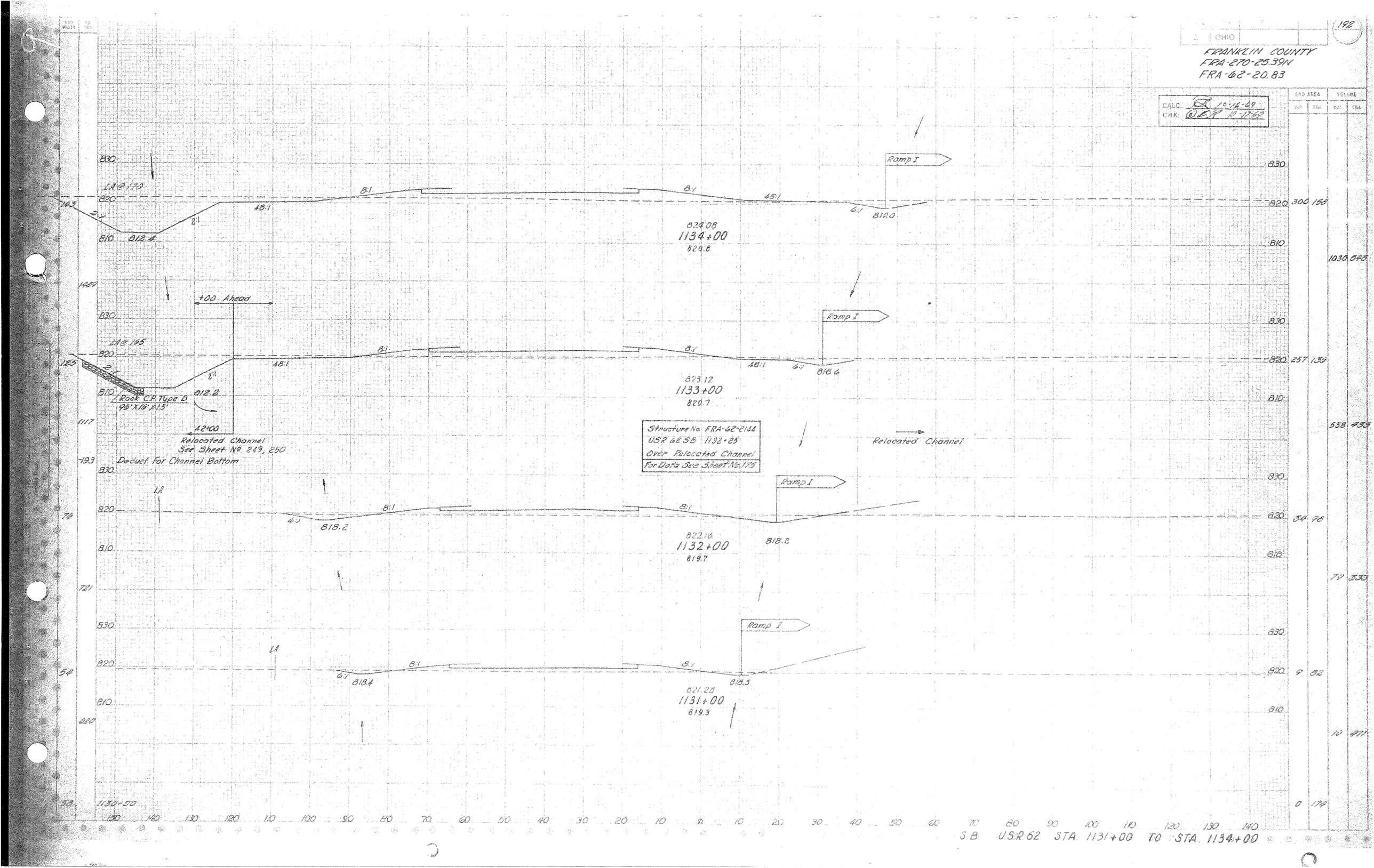
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

BEDDING		END AREA		VOLUME	
END WIDTH	DEPTH	CUT	FILL	CUT	FILL

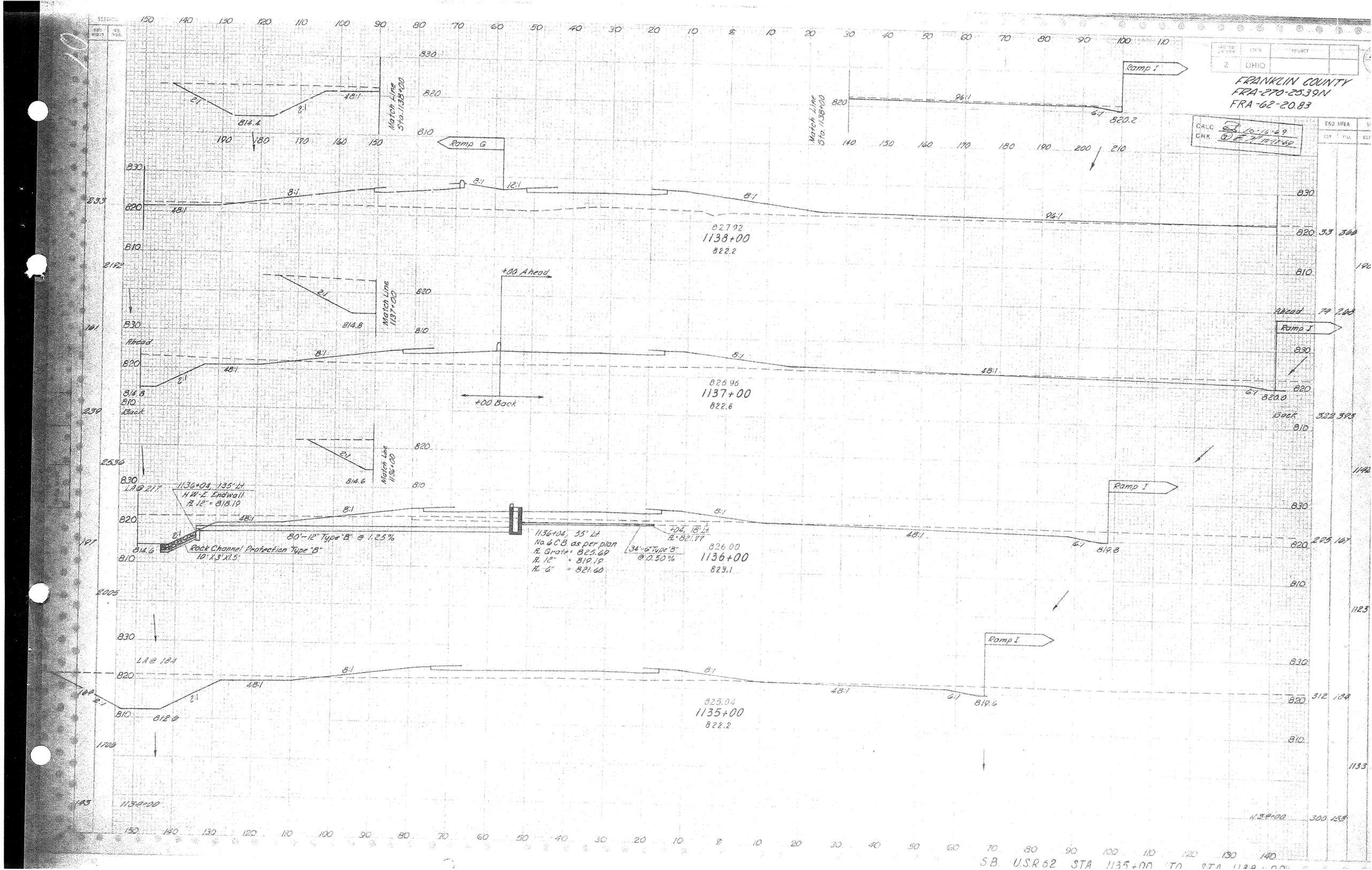
Ramp I
822.0
Ex. 21" abandon
822.47
1126+00
819.1
To Ramp K Ditch
US 62 SB Ahead
Ramp I Ahead
US 62 NB
Ahead 830 49 182
Ex. C.B. Removed
Ex. 18"
Ramp K Back
US 62 SB Back
823.19
1125+00
819.7
Back 810 14 69
Ramp K
820.9
Ex. C.B. Removed
Ex. 18" abandon
80'~ Ex. 27" abandon
Ex. M.H. Removed
823.91
1124+00
820.7
820.0
821.3
824.63
1123+00
821.8
1122+00 24 83
96 304
141 301
115 345
S.B. US 62 STA 1123+00 TO STA 1126+00



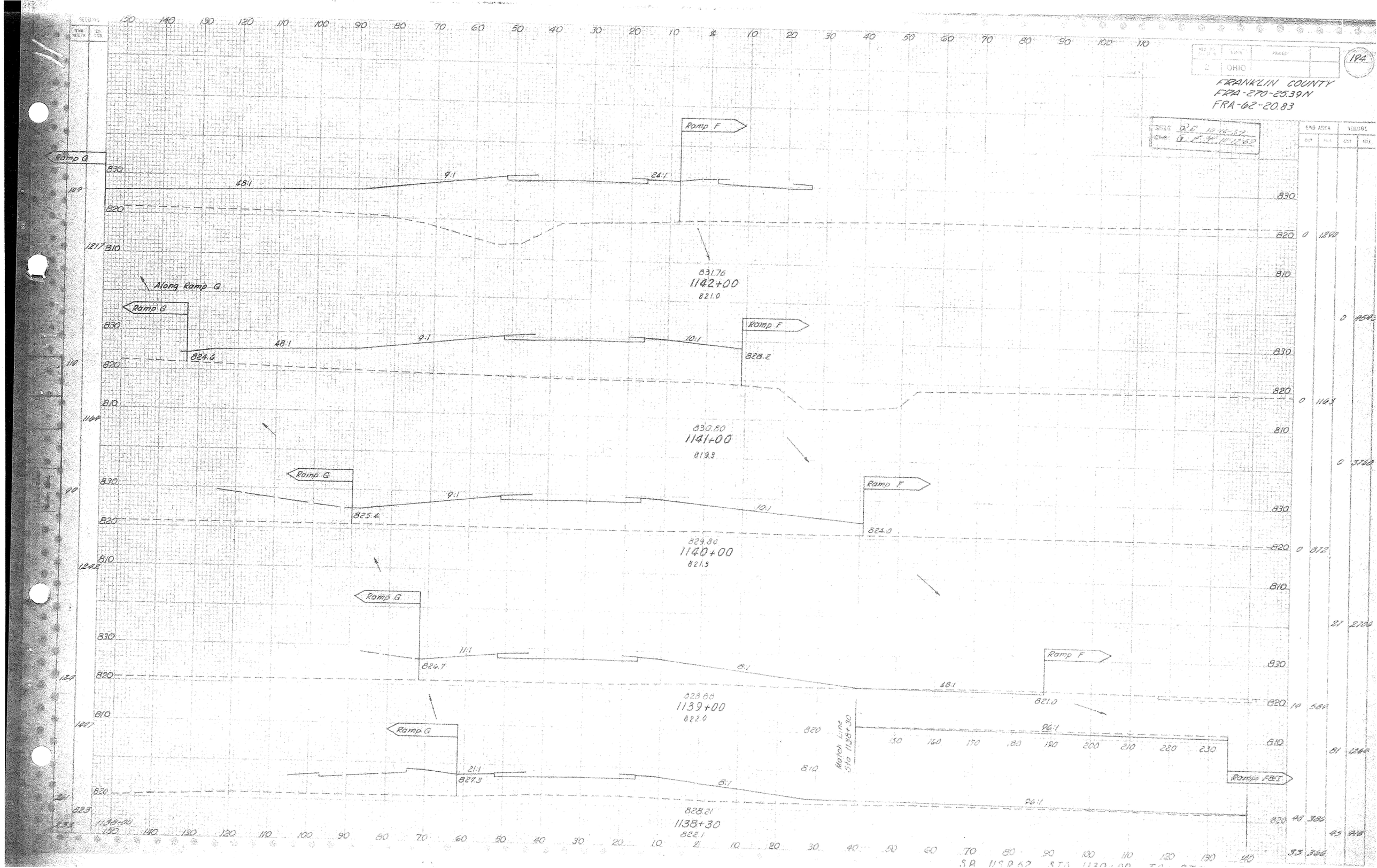
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
2
OHIO
191
CALC 10-16-69
CHK. 10-17-69
Ramp I
LA
48:1
8:1
818.6
819.0
820.79
1130+00
817.3
818.8
819.8
Ex. M.H. Removed
1128+84.18 Lt.
℄ = 816.52
83'-6" Type "B"
@ 1.40%
820.72
1129+00
817.8
D/D
12:1
820.0
Ex. 21" abandon
821.06
1128+00
817.9
821.0
821.75
1127+00
818.4
1126+00
S.B. U.S.R.62 STA. 1127+00 TO STA. 1130+00



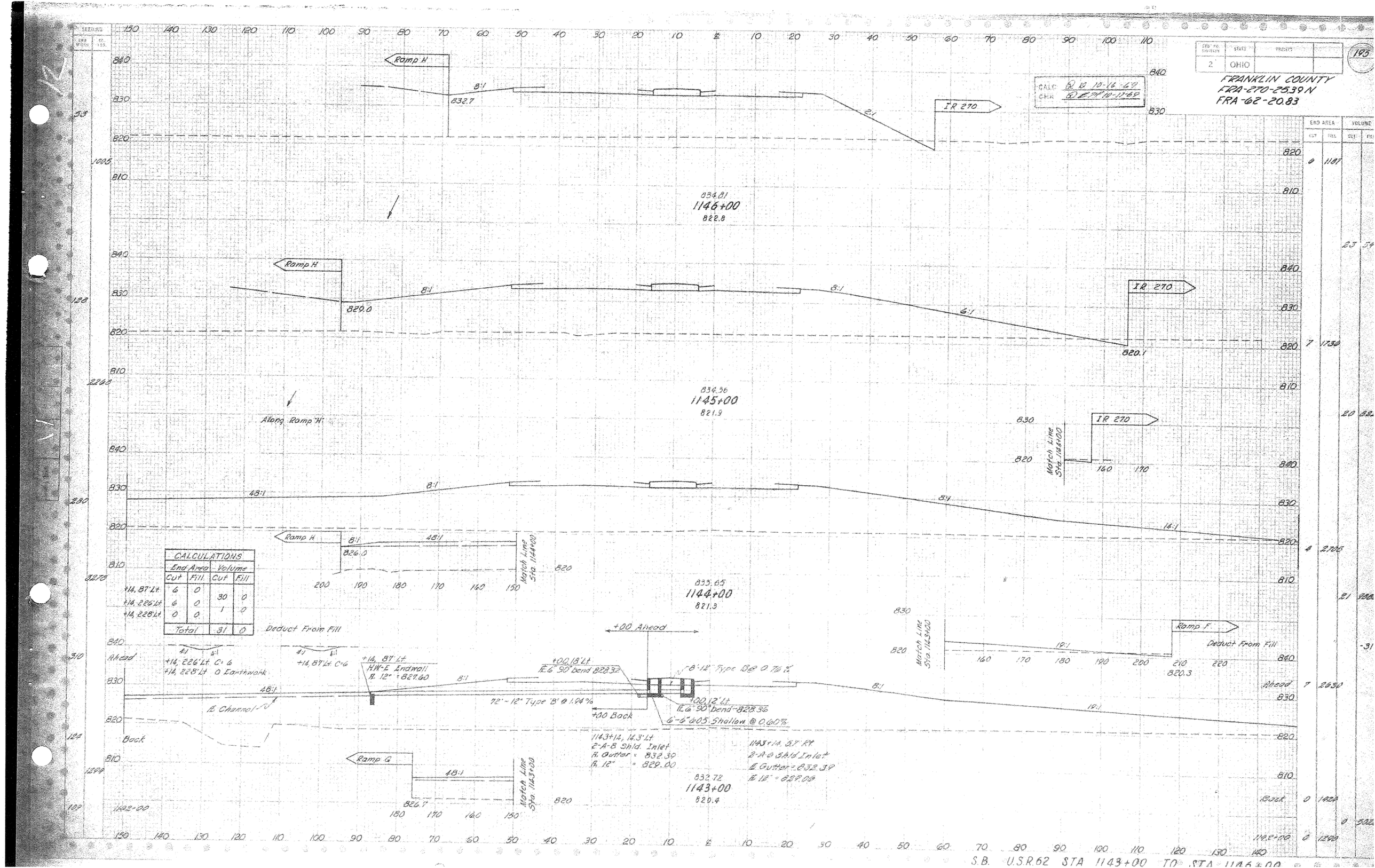
192
2 OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC 10-16-69
CHK 10-17-69
END AREA
VOLUME
CUT
FILL
LA @ 170
Ramp I
824.08
1134+00
820.8
+00 Ahead
LA @ 165
Rock C.P. Type B
96'X16'X1.5'
42+00
Relocated Channel
See Sheet No 249, 250
Deduct For Channel Bottom
823.12
1133+00
820.7
Structure No. FRA-62-2144
USR 62 SB 1132+25
Over Relocated Channel
For Data See Sheet No. 175
Relocated Channel
822.16
1132+00
819.7
821.28
1131+00
819.3
S.B. U.S.R. 62 STA. 1131+00 TO STA. 1134+00



2
OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
CALC 10-16-69
CHK 10-17-69
Ramp I
Ramp G
Match Line Sta. 1138+00
Match Line 1137+00
Match Line 1136+00
827.92
1138+00
822.2
+00 Ahead
+00 Back
826.96
1137+00
822.6
826.00
1136+00
823.1
825.04
1135+00
822.2
1136+04, 135' Lt.
H.W.-E. Endwall
FL 12" = 818.19
80'-12" Type "B" @ 1.25%
Rock Channel Protection Type "B"
10' X 3' X 1.5'
1136+04, 55' Lt.
No. 6 C.B. as per plan
FL Grate = 825.69
FL 12" = 819.19
FL 6" = 821.60
34'-6" Type "B" @ 0.50%
+04, 18' Lt.
FL = 821.77
LA @ 217
LA @ 184
Ahead
Back
S.B. U.S.R. 62 STA. 1135+00 TO STA. 1138+00

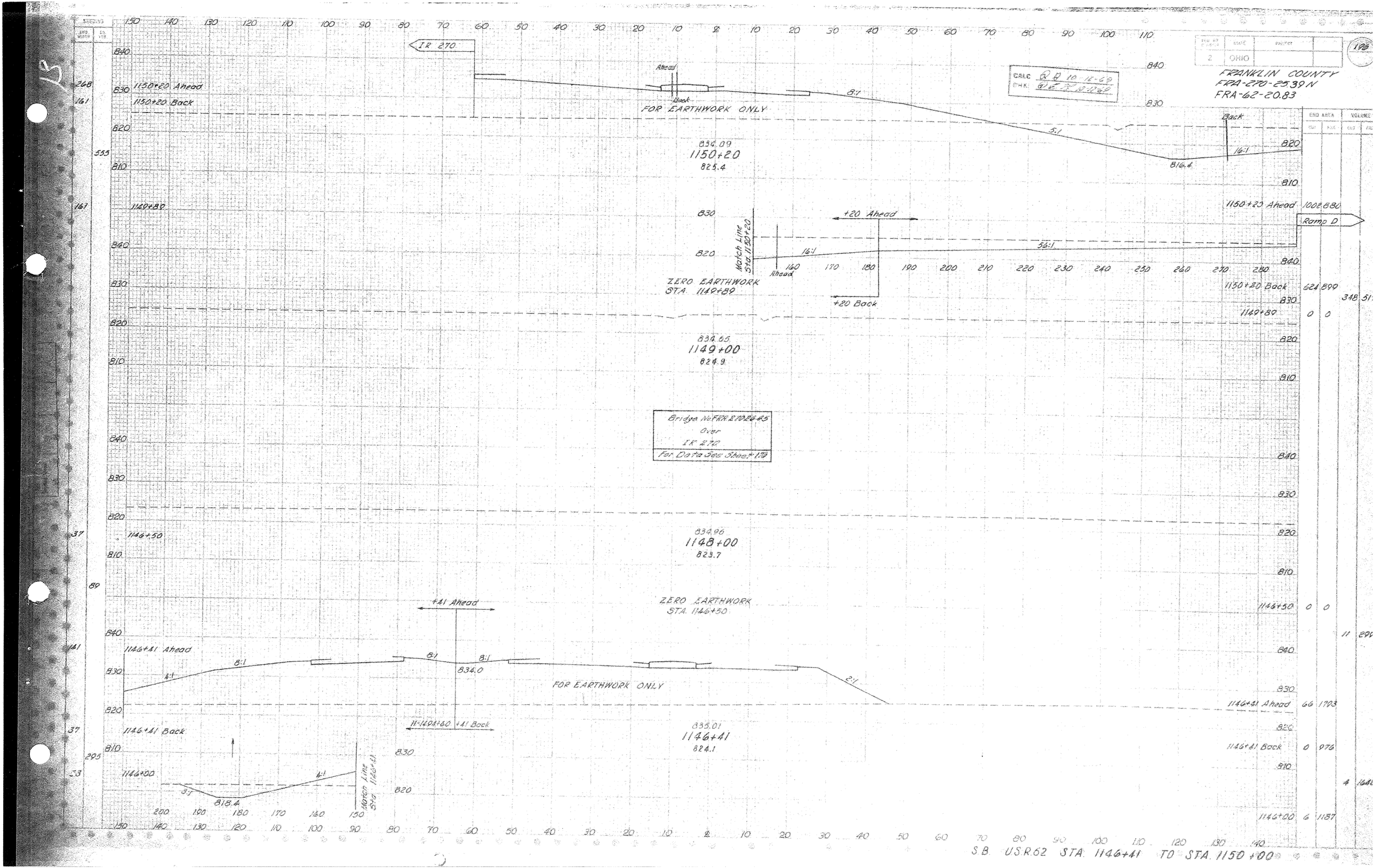


OHIO
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
194
Ramp G
Ramp F
Along Ramp G
Ramp G
Ramp F
Ramp G
Ramp F
Ramp G
Ramp F
Ramp G
Ramps F&I
Match Line Sta 1138+30
831.76
1142+00
821.0
830.80
1141+00
819.3
829.84
1140+00
821.3
828.88
1139+00
822.0
828.21
1138+30
822.1

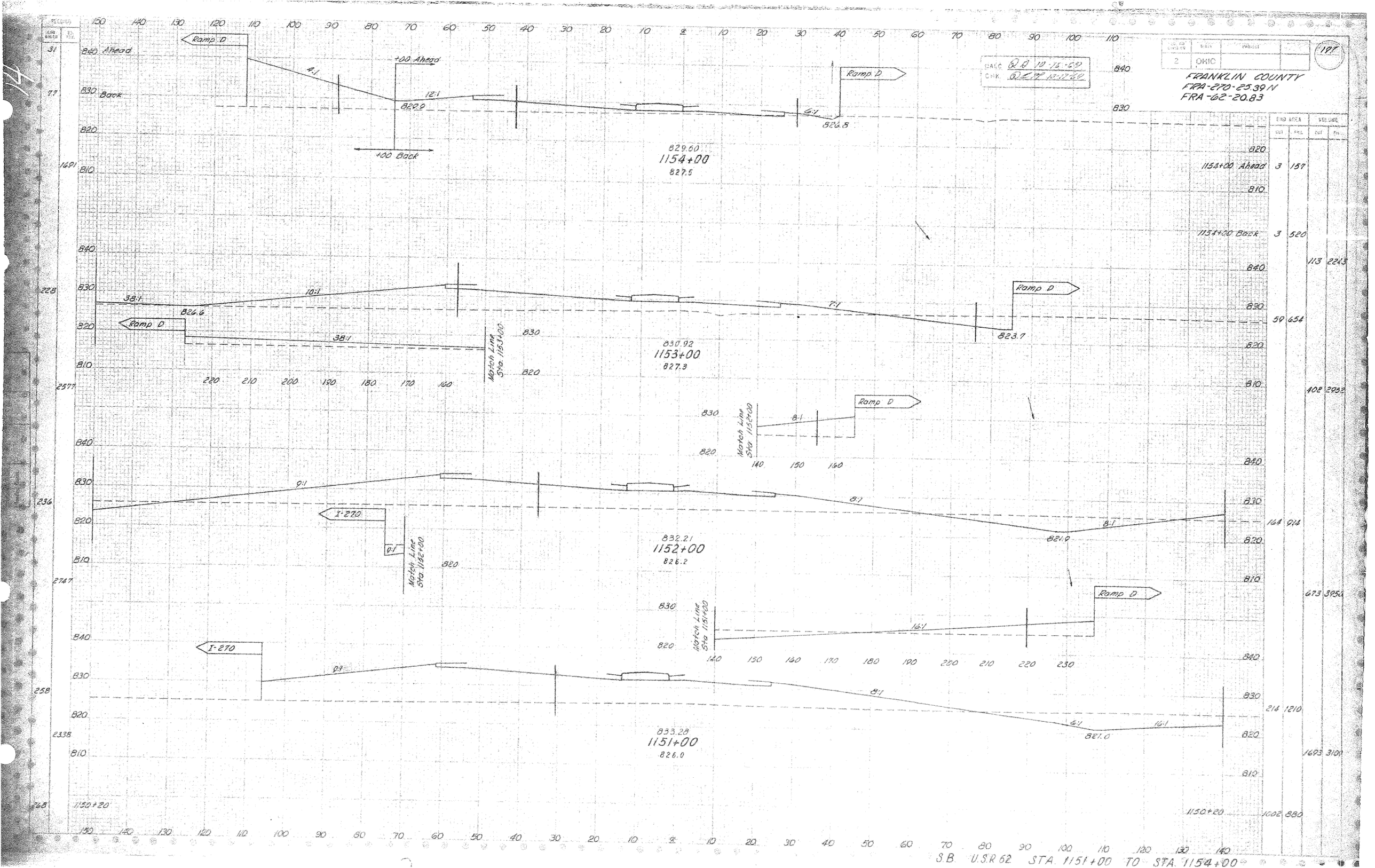


CALCULATIONS				
	End Area		Volume	
	Cut	Fill	Cut	Fill
+14, 87' Lt.	6	0	30	0
+14, 226' Lt.	6	0	1	0
+14, 228' Lt.	0	0		
Total			31	0

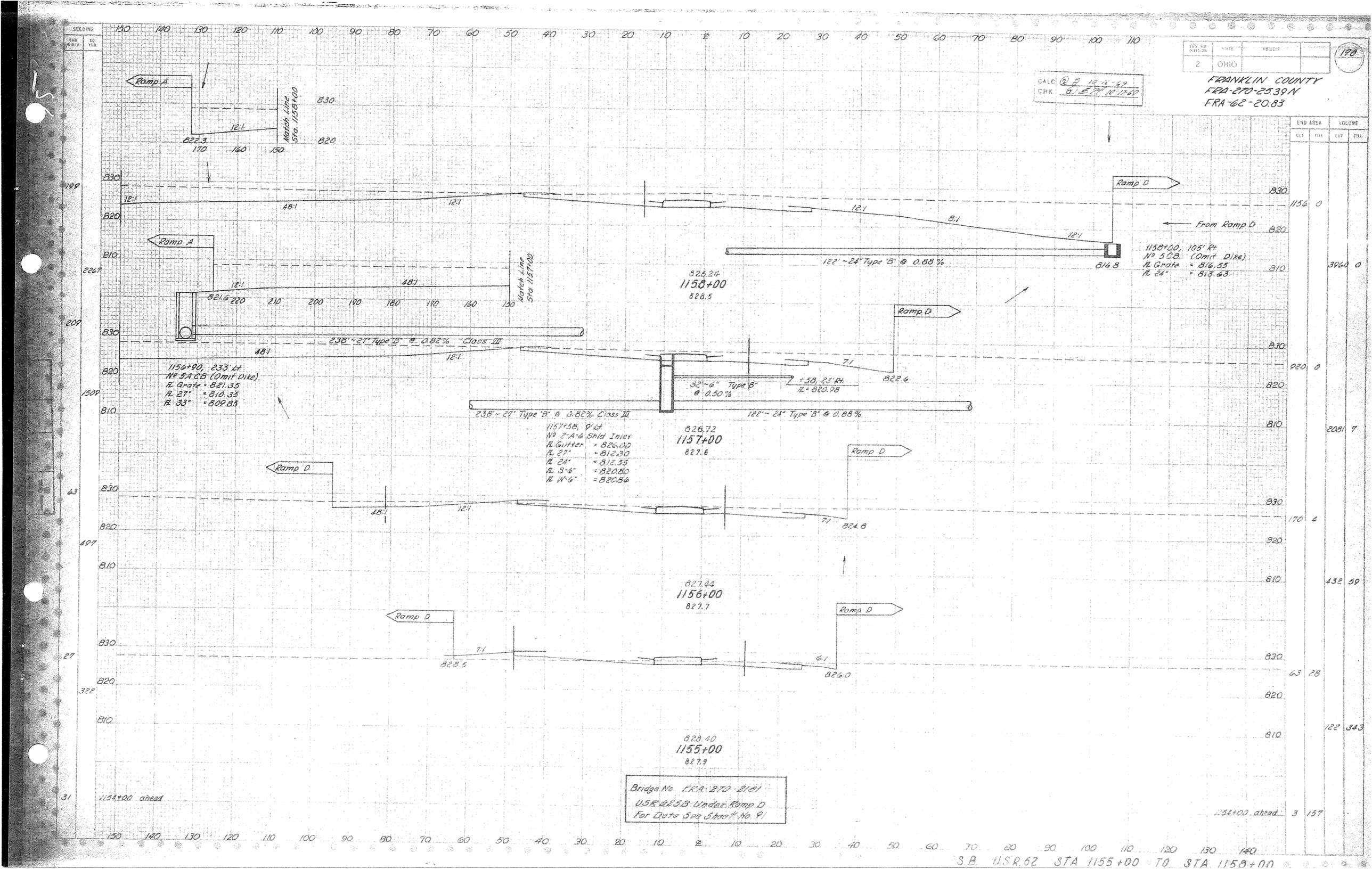
S.B. U.S.R.62 STA 1143+00 TO STA 1146+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
OHIO
CALC
CHK
IR 270
Ahead
Back
FOR EARTHWORK ONLY
1150+20 Ahead
1150+20 Back
834.09
1150+20
825.4
816.4
1149+89
+20 Ahead
+20 Back
Match Line Sta. 1150+20
ZERO EARTHWORK
STA. 1149+89
Ramp D
1150+20 Ahead 1002 880
1150+20 Back 624 899
1149+89 0 0
834.65
1149+00
824.9
Bridge No FRA 270-26.45
Over
IR 270
For Data See Sheet 170
1146+50
834.96
1148+00
823.7
ZERO EARTHWORK
STA. 1146+50
1146+50 0 0
+41 Ahead
1146+41 Ahead
834.0
FOR EARTHWORK ONLY
1146+41 Ahead 66 1793
1146+41 Back
835.01
1146+41
824.1
1146+41 Back 0 976
1146+00
818.4
Match Line Sta. 1146+41
1146+00 6 1187
S.B. U.S.R.62 STA. 1146+41 TO STA. 1150+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
197
2
OHIO
CALC. Q.A. 10-16-69
CHK. Q.E.M. 10-17-69
Ramp D
+00 Ahead
+00 Back
Ahead
Back
829.60
1154+00
827.5
830.92
1153+00
827.3
832.21
1152+00
826.2
833.28
1151+00
826.0
Match Line Sta. 1153+00
Match Line Sta. 1152+00
Match Line Sta. 1151+00
I-270
1154+00 Ahead
1154+00 Back
1150+20
S.B. U.S.R 62 STA. 1151+00 TO STA. 1154+00



FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
2
OHIO
198
CALC
CHK
Ramp A
Ramp D
Match Line Sta. 1158+00
Match Line Sta. 1157+00
From Ramp D
1158+00, 105' Rt.
Nº 5 C.B. (Omit Dike)
FL Grate = 816.55
FL 24" = 813.63
122' ~ 24" Type "B" @ 0.88%
826.24
1158+00
828.5
238' ~ 27" Type "B" @ 0.82% Class III
1156+90, 233' Lt.
Nº 5A C.B. (Omit Dike)
FL Grate = 821.35
FL 27" = 810.35
FL 33" = 809.85
32' ~ 6" Type "B" @ 0.50%
+58, 23' Rt.
FL = 820.98
1157+58, 9' Lt.
Nº 2-A-6 Shld Inlet
FL Gutter = 826.00
FL 27" = 812.30
FL 24" = 812.55
FL S-6" = 820.80
FL W-6" = 820.86
826.72
1157+00
827.6
827.44
1156+00
827.7
828.40
1155+00
827.9
Bridge No. FRA-270-2181
USR 62 SB Under Ramp D
For Data See Sheet No. 91
1154+00 ahead
S.B. U.S.R. 62 STA 1155+00 TO STA 1158+00

SECTION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC ⓐ JJ 10-4-62
CHK ⓑ EM 10-12-62

Ramp A — 12:1 — 824.5

US 62 SB — 12:1 — 817.7

824.80
1162+00
827.3

Ramp A — 12:1 — 824.0

US 62 NB — 12:1 — 817.5

825.10
1161+00
827.2

Ramp A — 12:1 — 12:1 — 822.8

US 62 NB — 12:1 — 817.3

825.52
1160+00
827.4

Ramp A — 12:1 — 48:1 — 12:1 — 822.7

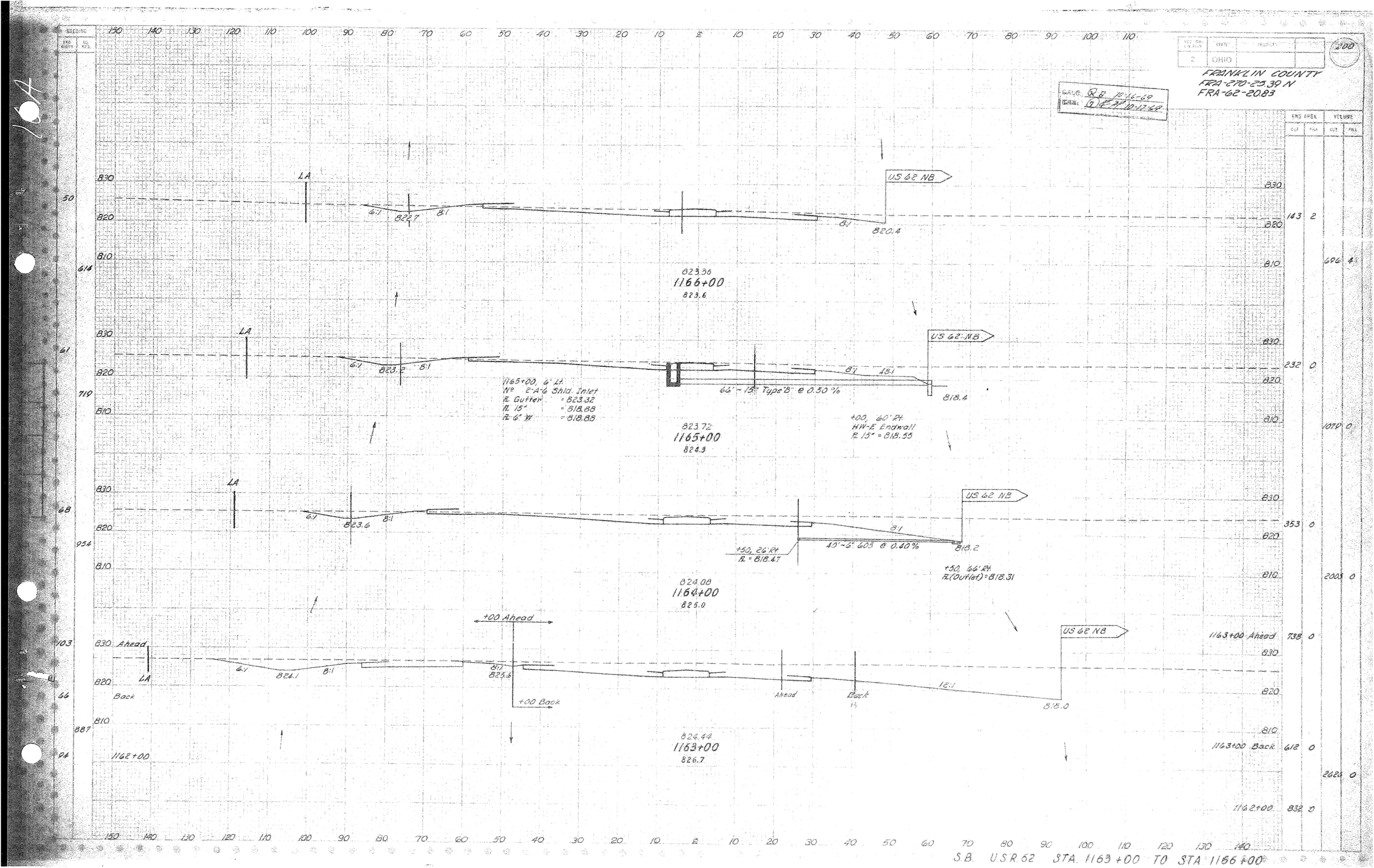
US 62 NB — 12:1 — 817.0

825.88
1159+00
827.6

1158+00

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
94				
1129				
110				
1128				
147				
1717				
162				
2006				
199				
1158+00			1156	0

S.B. U.S.R 62 STA 1159+00 TO STA 1162+00



S.B. U.S.R. 62 STA. 1163+00 TO STA 1166+00

SEEDING

2	OHIO			

301

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC RD 10-12-82
CHK [illegible]

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
830				
Ahead	66	6		
820				
Back	18	4		
810				
			191	9
830				
820	85	1		
810				
			326	5
830				
820	91	2		
810			535	5
830				
820	198	0		
810			633	4
1166+00	143	2		

S.B. USR 62 1170+00 Ahead =
N.B. USR 62 1170+00

101 Ahead — LA — 6:1 — 817.1 — 8:1 — 820 — 830 — 810

46 Back

1170+53.3, 4.3' Lt.
№ 2-A-B Shld. Inlet
Rt. Gutter = 821.40
Rt. 12" = 817.80

10-12" Type B @ 5.00%

821.92
1170+00
820.6

24"-12" Type B @ 0.72%

1170+53.3, 7' Rt.
№ 6 C.B., as per plan
Rt. Grate = 821.47
Rt. 12" = 817.30
Rt. 6" = 817.30

+34.0/0

+00 Back

1170+53.3, 31' Rt.
№ 6 C.B., as per plan
Rt. Grate = 821.16
Rt. 15" = 818.88
Rt. 12" = 817.13
Rt. 6" = 817.17

8:1 — 817.2 — 6:1 — LA — Ahead — Back

456 — 830 — 820 — 810

US 62 NB

36 — LA — 6:1 — 820.0 — 8:1 — 8:1 — 821.6

822.28
1169+00
821.6

380 — 830 — 820 — 810

US 62 NB

33 — LA — 6:1 — 821.2 — 8:1 — 8:1 — 821.5

822.64
1168+00
822.5

396 — 830 — 820 — 810

US 62 NB

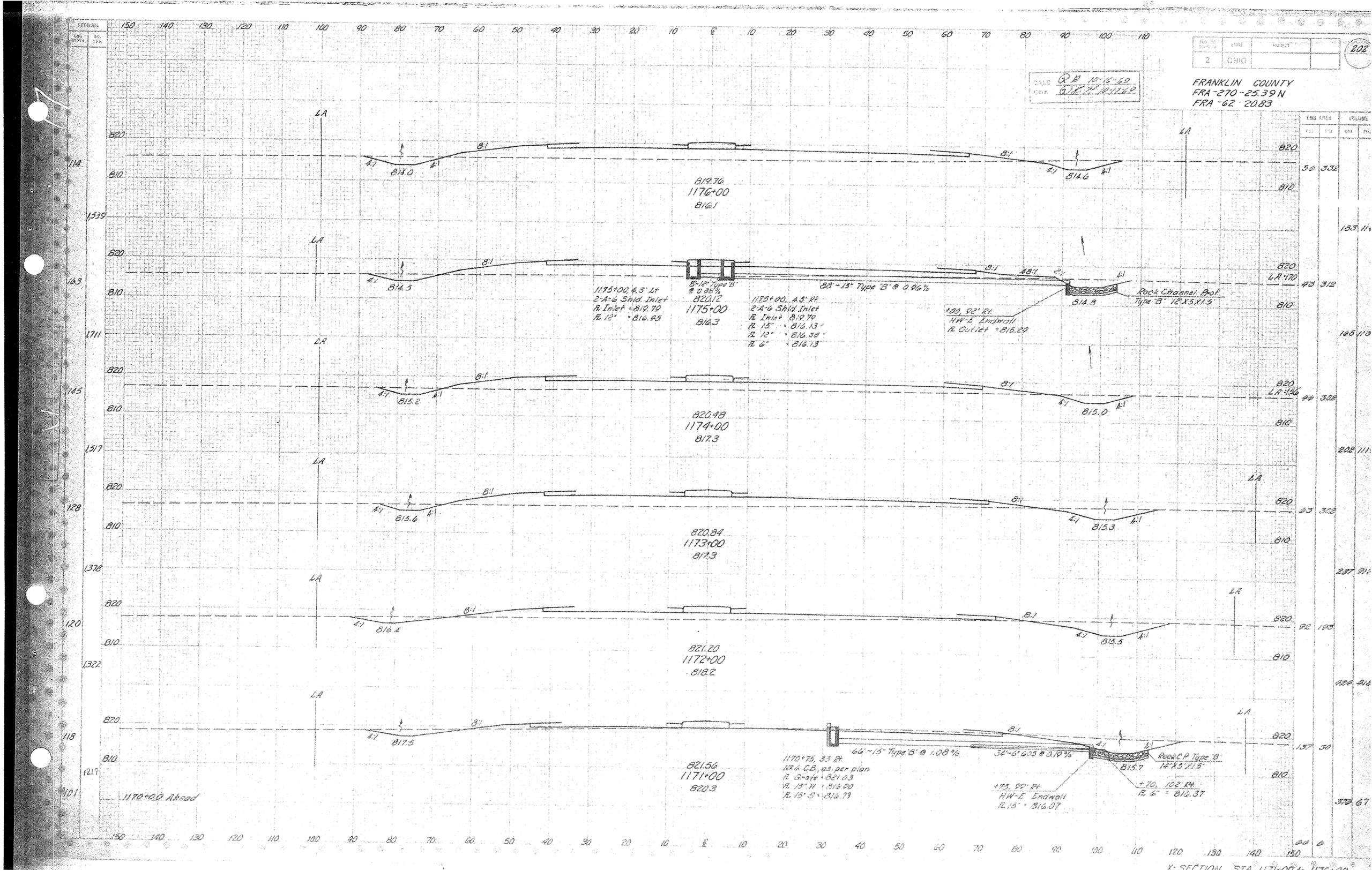
30 — LA — 6:1 — 822.1 — 8:1 — 8:1 — 821.4

823.00
1167+00
824.3

491 — 830 — 820 — 810

50 — 1166+00

S.B. U.S.R. 62 STA. 1167+00 TO STA. 1170+00



202
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CALC QR 10-16-69
CHK QE 10-17-69
819.76
1176+00
816.1
1175+00, 4.3' Lt
2-A-6 Shld. Inlet
FL Inlet = 819.79
FL 12" = 816.45
8-12" Type "B" @ 0.88%
820.12
1175+00
816.3
1175+00, 4.3' Rt
2-A-6 Shld Inlet
FL Inlet 819.79
FL 15" = 816.13
FL 12" = 816.38
FL 6" = 816.13
88'-15" Type "B" @ 0.96%
+00, 92' Rt.
HW-E Endwall
FL Outlet = 815.29
Rock Channel Prof
Type "B" 12'X5'X1.5'
820.48
1174+00
817.3
820.84
1173+00
817.3
821.20
1172+00
818.2
821.56
1171+00
820.3
1170+00 Ahead
1170+75, 33' Rt.
No 6 C.B., as per plan
FL Grate = 821.03
FL 15" W = 816.90
FL 15" S = 816.79
66'-15" Type "B" @ 1.08%
34'-6" 605 @ 0.19%
+75, 99' Rt.
HW-E Endwall
FL 15" = 816.07
+70, 102' Rt.
FL 6" = 816.37
Rock C.P. Type "B"
14'X5'X1.5'
LA

STATE DESIGN	STATE	PROJECT	SHEET
2	OHIO		203

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CHKD GO 10-16-69
CHKD GO 12-17-69

			END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		LA 159'				
162		820				
		810	84	77		
1644					746	174
134		820				
		810	219	15		
134	223	1182+82 Ahead U-202(5)			125	18
134	1266	1180+83 Back RURAL	232	50		
		1180+85 Ahead U-202(5)	232	50		
134		820			1422	79
		810	674	0		
1644					2039	543
162		820				
		810	438	295		
1598					232	415
125		820				
		810	95	47		
1344					298	089
117		820				
		810	50	137		
1283					222	911
114		1176+00	50	332		

811.4 — 2:1 — 4:1 — 817.60 — 1182+00 — 815.7 — 5:1 — 4:1 — 4:1 — 811.5

811.2 — 4:1 — 4:1 — 817.96 — 1181+00 — 816.3 — 8:1 — 4:1 — 4:1 — 811.3

811.0 — 3:1 — 4:1 — 818.32 — 1180+00 — 819.3 — 8:1 — 4:1 — 4:1 — 811.0

810.8 — 3:1 — 4:1 — 818.68 — 1179+00 — 819.2 — 8:1 — 4:1 — 4:1 — 805.0

Structure No FRA-62-0149
1178+65 Prop. Box Culvert
For Details See Sheet No 260-262

811.6 — 4:1 — 4:1 — 819.04 — 1178+00 — 813.7 — 8:1 — 4:1 — 4:1 — 813.8

812.4 — 4:1 — 4:1 — 45°-6" 605 @ 0.20% — +00. 80' Lt — 12"-813.10 — 819.40 — 1177+00 — 817.4 — 8:1 — 4:1 — 4:1 — 814.3

X-SECTION STA 1177+00 TO 1182+00

STATE	DIST.	ROUTE	
0	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83

SEEDING

END AREA	SQ. YDS.
90	756
60	747
63	1017
75	1417
120	1385
100	1617

Add Seeding

Ex 16" W.M.

EARTHWORK

END AREA		VOLU	
CUT	FILL	CUT	
580	0		
		2676	
865	0		
		389	
635	0		
		1949	
580	0		
		2220	
610	0		
		1889	
410	2		
100	18	1100	1

Add Cut
Add Fill

Seeding = [70 × 8] ÷ 9 = 63 S.Y.

	Area		Volume		Ex 16" W.M.
	Cut	Fill	Cut	Fill	
0+00	0	0	1	2	
0+17	3	4	3	4	
0+70	0	0			
			4	6	

LA
4:1
3:1
10:1
812.2
810.8
815.44
1188+00
817.0'
812.4
Stygler Road
815.80
1187+00
818.4
1186+95, 4.3' Lt
2-A-6 Shld. Inlet
R. Gutter = 815.68
R. 12 (2) = 811.97
Profile Res. Dr.
1186+03, 90' Rt.
W = 12'
Invert Elev. 818.2
818.7
0.72%
Zero Section
0+70
818.6
0+17
817.5
Zero Section
0+00
812.6
813.9
1186+35, 13' Rt
R.C. = 812.10
VERT. 22½ "Bend
STA. 1185+67.12, 77' Lt.
Invert Elev. = 809.0'
VERT. 22½ "Bend
STA. 1185+67.12, 77' Lt.
Invert Elev. = 809.0'
1184+43, 3.7' Lt
2-A-6 Shld Inlet
R. Gutter = 813.62
R. 12" = 812.07
R. 6" = 812.07
816.21
1185+86
819.2
8'-6" Type F
VERT. 22½ "Bend
STA. 1186+11.3, 72' Rt
Invert Elev. = 807.5'
VERT. 22½ "Bend
STA. 1186+14.1, 81.3' Rt
Invert Elev. = 811.7
812.0
814.2
816.52
1185+00
819.1
811.8
814.6
816.88
1184+00
819.3
811.6
1183+00, 4.3' Lt
2-A-6 Shoulder Inlet
R. Gutter 816.91
R. 12" 813.49
8'-12" Type 6 @ 6.88%
817.24
1183+00
817.7
78"-15" Type B @ 0.52%
1183+00, 4.3' Rt
2-A-6 Shoulder Inlet
R. Gutter 816.91
R. 12" 812.94
R. 15" 812.60
R. 6" 812.60
HW-E Endwall
R. 15" 812.28
811.7
Rock Channel Protection
Type B 11'x5'x1.5'
1182+00
1186+00
1188+00
1190+00
1192+00
CROSS SECTIONS
STA. 1183+00 to 1192+00

SEEDING	
END WIDTH	SQ. YDS.
107	
1200	
109	
1222	
111	
1233	
111	
1189	
103	
1117	
98	
1078	

Ex 8" San S ℄

Std Nº 1 MH
1194+64, 104' Lt
℄ 12" 797.08
℄ 8" 797.98
Cover Elev. 809.50

204'-12" Type 'B' @ 0.30%

UNSUITABLE

1194+50
(For determining unsuitable material only)

Note: For Swamp Treatment detail see sheet 15

SHEET NO.	STATE	PROJECT	
2	OHIO		

285

FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83

203 BORROW Using Granular Material	
END AREA	VOLUME
1101	
	1019
0	

EARTHWORK			
END AREA		VOLUME	
CUT	FILL	CUT	FILL
53	195		
			681
315	0		
		1230	0
673	0		
		1206	0
440	0		
		1586	0
395	0		
		1648	0
495	0		
		1391	0
580	0		

Rock C.P. Type 'B'
10'×5'×1.5'

807.6

1194+00, 48' Lt
HW-E. Endwall
℄ 18" 808.02

1193+94, 70' Lt
℄ 6" = 809.66

34'-6" @ 0.22%

64'-18" Type 'B' @ 1.20%

510'-12" Type 'B' @ 0.70%

809.4

1194+00, 60' Lt
Std Nº 3 C.B.
Inlet Elev. 813.33
℄ 15" 809.04
℄ 18" 808.79
℄ 12" = 809.29

813.66
1194+00
810.2

1194+00, 60' Rt
Std Nº 3 C.B.
Inlet Elev. 813.33
℄ 6" 809.36
℄ 12" 809.56

808.9

1193+00, 43' Lt
No 2-A-6 Paved Std Inlet
℄ Gutter = 813.40
℄ (W) 12" = 809.65

℄ (3) 12" = 809.65
℄ 15" = 809.40
℄ 6" 809.40

8-12" Type B @ 0.62%

10'-6" @ 5.05 @ 3.20%

813.74
1193+00
813.4

1193+00, 43' Rt
No 2-A-6 Paved Std Inlet
℄ Gutter = 813.40
℄ 12" = 809.70

809.7

1192+97.2, 15' Rt
6" x 45° Bend
℄ 6" = 809.72

810.2

814.00
1192+00
816.9

1191+04.3, 43' Lt
12" x 45° Bend
℄ 12" = 810.35

807.9

811.0

1190+95.7, 43' Lt
12" x 45° Bend
℄ 12" = 810.39

8-12" Type B @ 0.53%
814.36
1191+00
815.9

1191+00, 1' Lt
No 1-A M.H.
Cover Elev = 814.90
℄ 12" = 810.37
℄ 6" = 810.37

NOTE:
Cover Shall Be Sloped To Conform With Median

810.1

811.4

814.72
1190+00
815.8

810.4

811.8

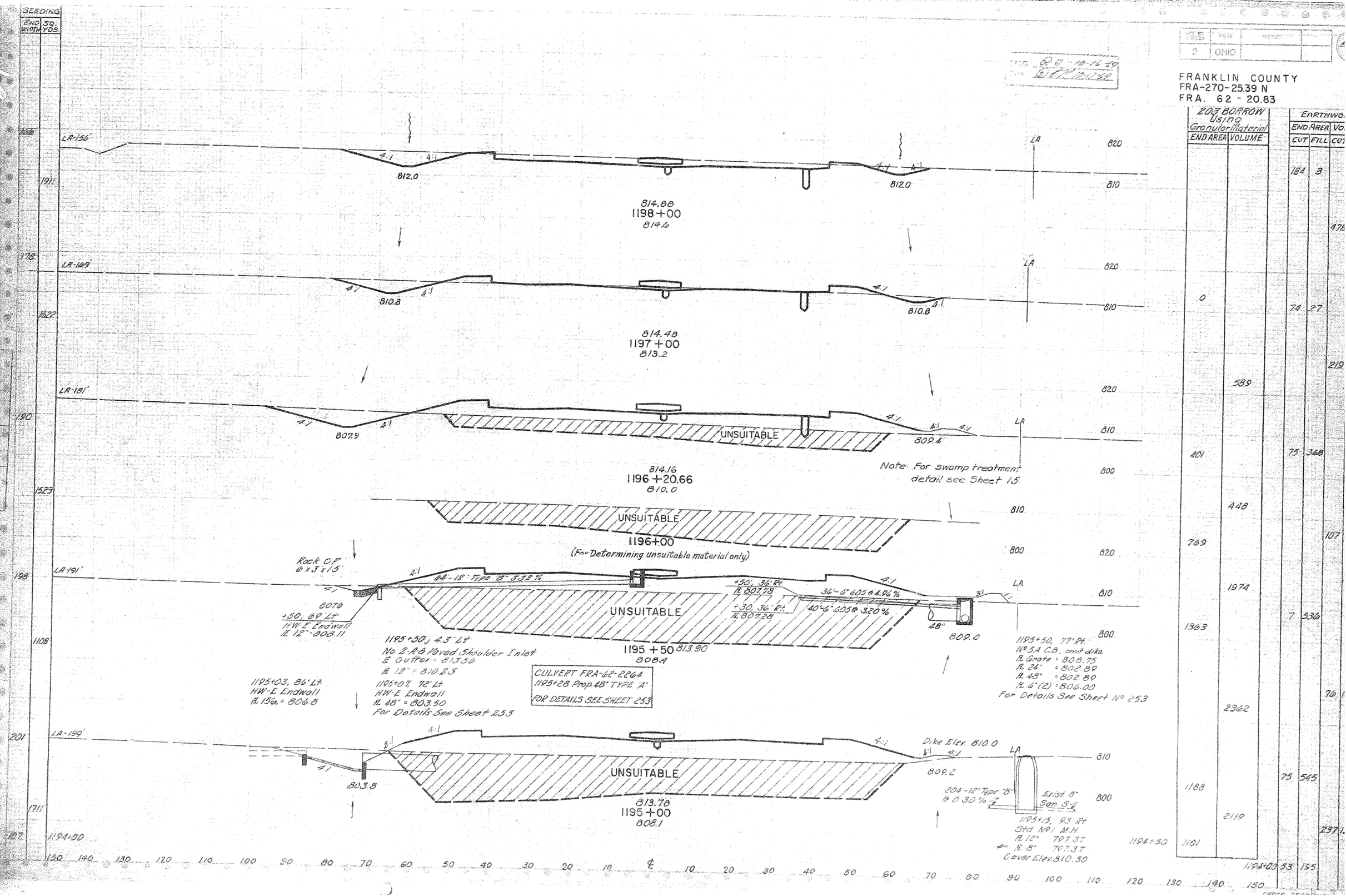
815.08
1189+00
816.3

810.60

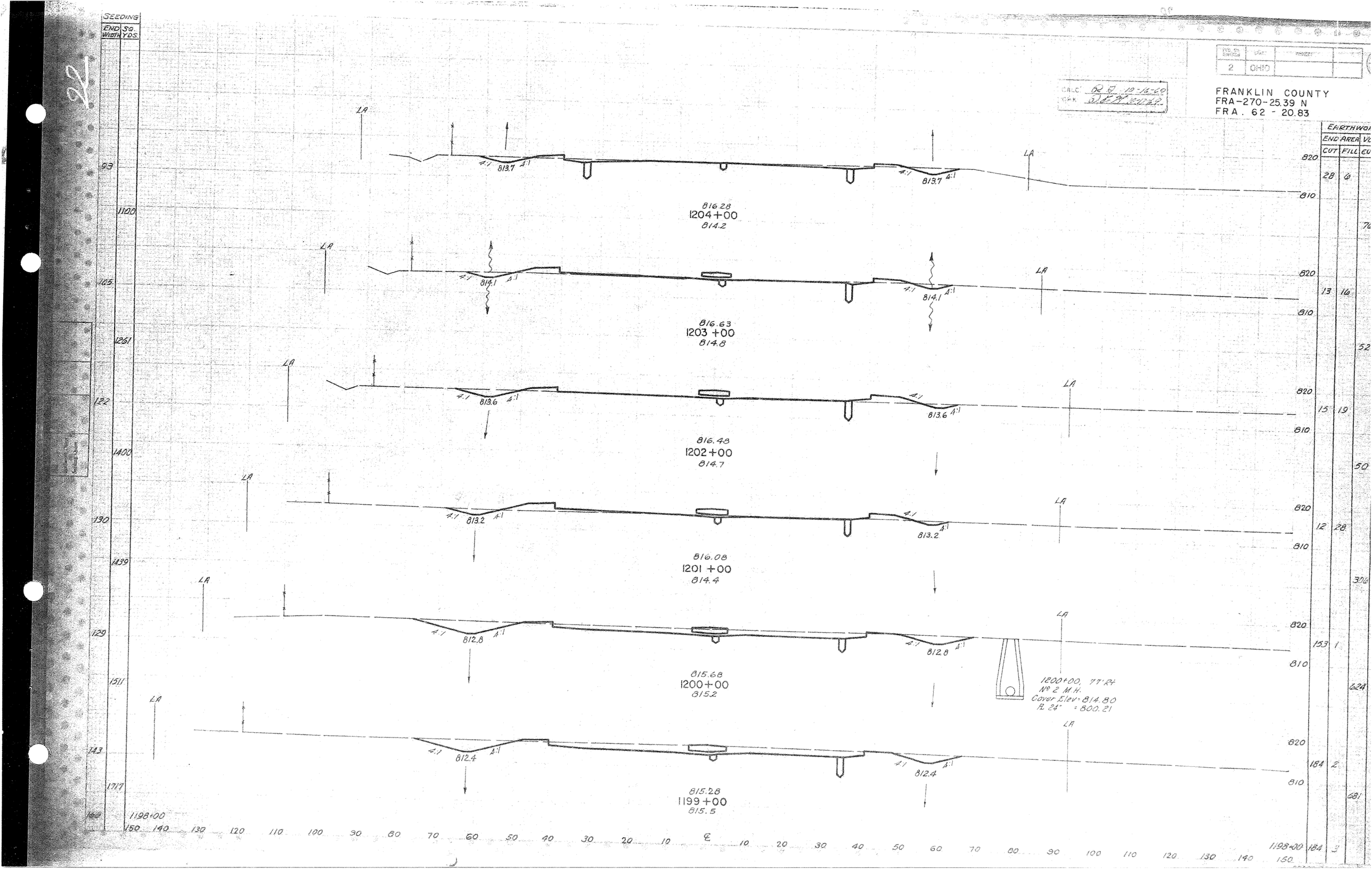
1188+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1188+00



SEEDING
END WIDTH
SQ. YDS.
FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83
203 BORROW Using Granular Material
END AREA
VOLUME
EARTHWO
END AREA
CUT
FILL
LA-156'
812.0
814.88
1198+00
814.6
LA-169'
810.8
814.48
1197+00
813.2
LA-181'
807.9
UNSUITABLE
809.4
814.16
1196+20.66
810.0
Note: For swamp treatment detail see Sheet 15
UNSUITABLE
1196+00
(For Determining unsuitable material only)
LA-191'
Rock C.P. 6'x3'x15'
64'-12" Type "B" 3.32%
807.6
+50, 69' Lt. HW-E Endwall FL 12" = 808.11
+50, 36' Rt. FL 807.78
+30, 36' Rt. FL 807.28
36'-6" 605 @ 4.96%
40'-6" 605 @ 3.20%
UNSUITABLE
1195+50 813.90
808.4
809.0
1195+50, 77' Rt. No 5A C.B. omit dike FL Grate = 808.75 FL 24" = 802.89 FL 48" = 802.89 FL 6" (2) = 806.00
For Details See Sheet No 253
1195+50, 4.3' Lt. No 2-A-8 Paved Shoulder Inlet FL Gutter = 813.56 FL 12" = 810.23
1195+03, 86' Lt. HW-E Endwall FL 15" = 806.8
1195+07, 72' Lt. HW-E Endwall FL 48" = 803.50
For Details See Sheet 253
CULVERT FRA-62-2264
1195+28 Prop. 48" TYPE "A"
FOR DETAILS SEE SHEET 253
LA-199'
803.8
UNSUITABLE
813.78
1195+00
808.1
Dike Elev. 810.0
809.2
204'-12" Type "B" @ 0.30%
Exist. 8" San. S.L.
1195+15, 93' Rt. Std No 1 M.H. FL 12" 797.37 FL 8" 797.37 Cover Elev. 810.50
1194+00
1194+50



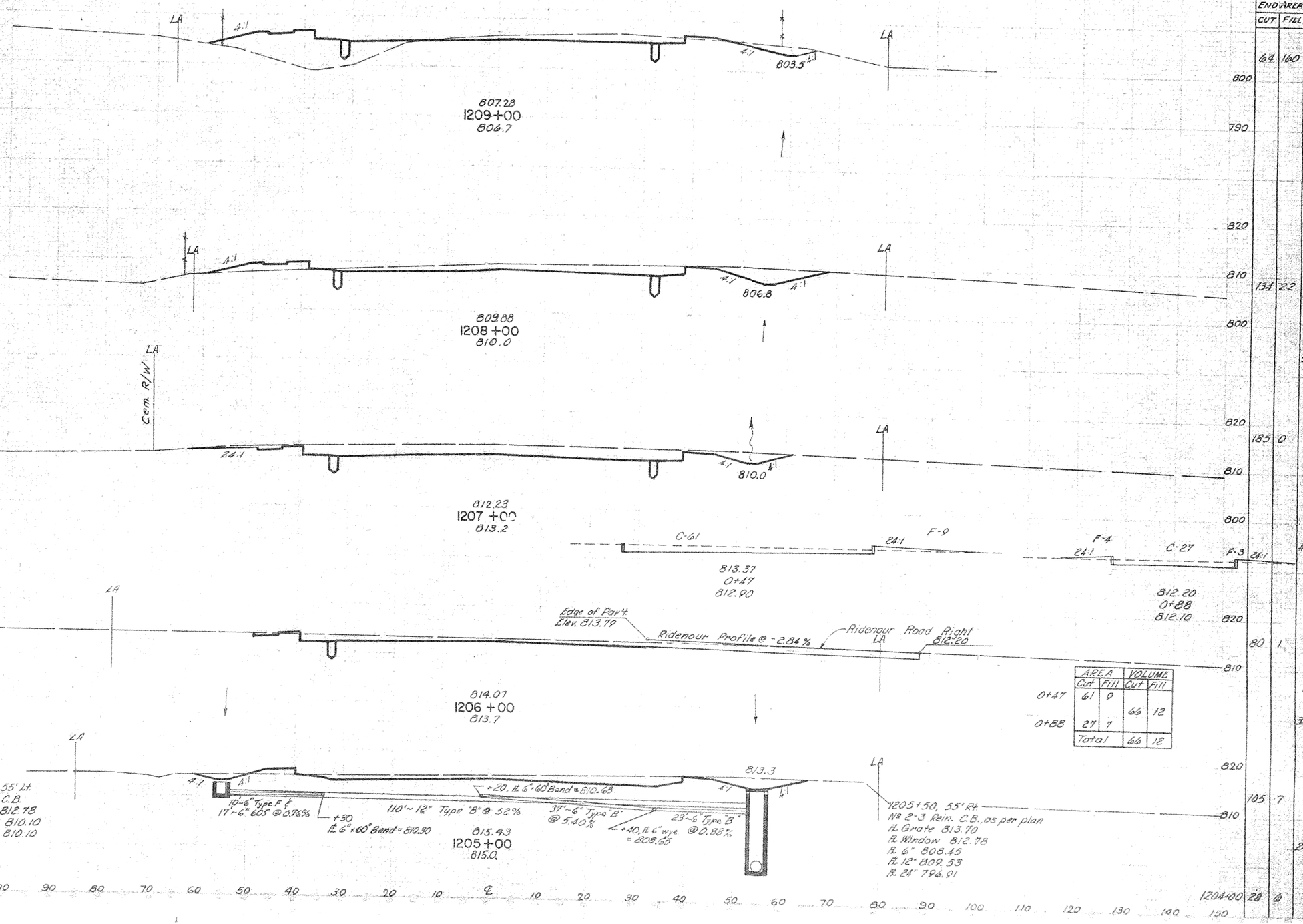
2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83
CALC 62 B 10-16-69
CHK 10-17-69
SEEDING
END WIDTH
SQ. YDS.
EARTHWORK
END AREA
CUT
FILL
LA
4:1
813.7
816.28
1204+00
814.2
814.1
816.63
1203+00
814.8
813.6
816.48
1202+00
814.7
813.2
816.08
1201+00
814.4
812.8
815.68
1200+00
815.2
1200+00, 77' Rt
Nº 2 M.H.
Cover Elev = 814.80
Pl. 24" = 800.21
812.4
815.28
1199+00
815.5
1198+00

SEEDING	
END WIDTH	SQ. YDS.
71	
	761
66	
	772
73	
	622
39	
	700
87	
	1000
93	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CALC. R.E. 10-16-69
CHK. R.K.H. 10-17-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83



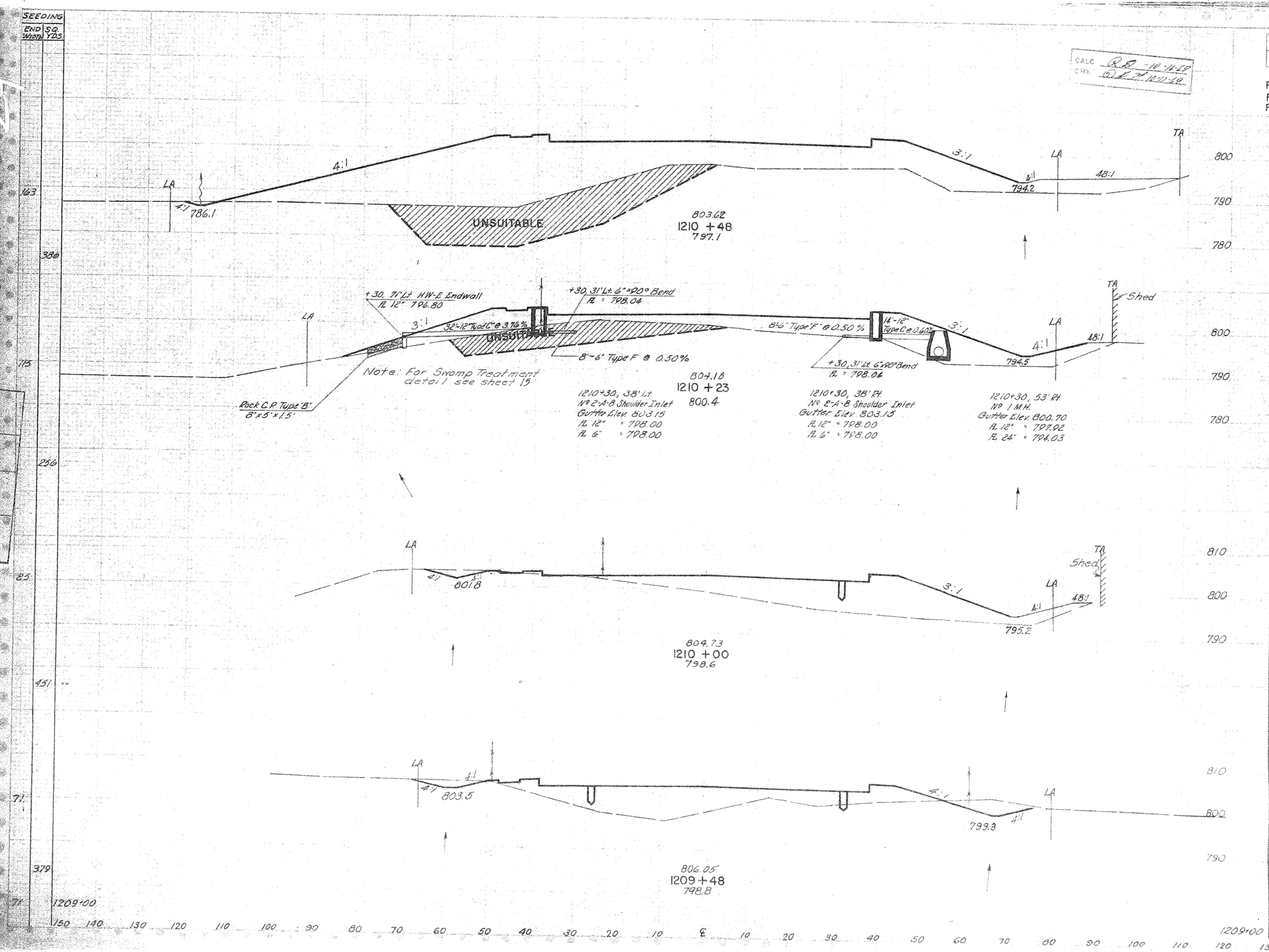
	AREA		VOLUME	
	Cut	Fill	Cut	Fill
0+47	61	9	66	12
0+88	27	7		
	Total		66	12

EARTHWORK		
END AREA		VOL
CUT	FILL	CUT
64	160	
		367
134	22	
		591
185	0	
		491
80	1	
		66
		343
105	7	
		246
28	6	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CALC R.B. 10-14-69
CHK [illegible] 10-17-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 -20.83



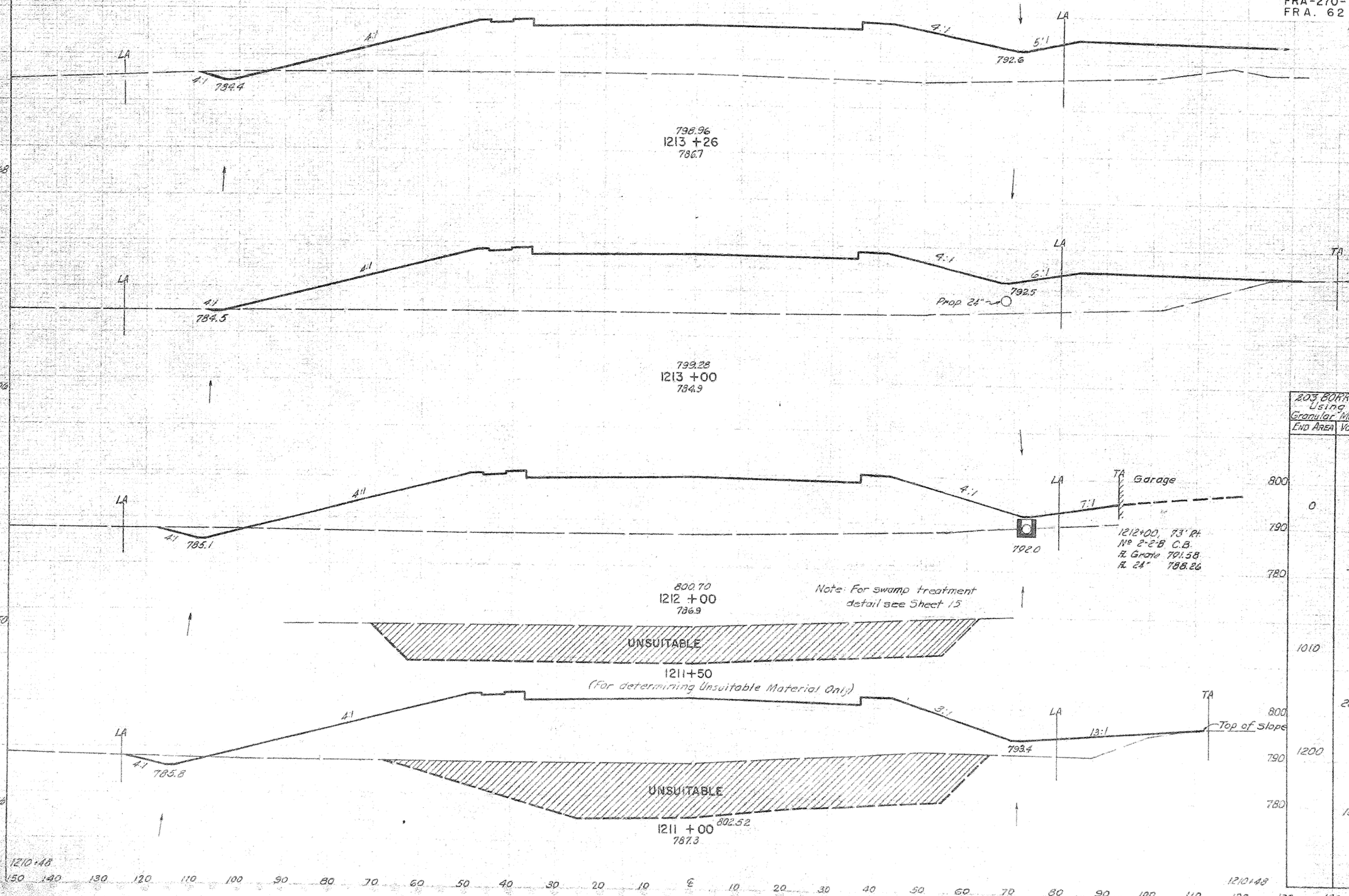
203 BORROW Using Granular Material		EARTHWORK			
END AREA	VOLUME	END AREA		VOLUME	
		CUT	FILL	CUT	F
550		3	1460		
				1	9
	380				
271		0	595		
	115			5	4
0		12	512		
				68	8
		59	391		
				109	45
		64	160		

SEEDING	
END WIDTH	SQ YDS
10.7	
5.68	
19.6	
19.06	
14.7	
9.50	

CALC	RZ R. Fee
CHK	Ed Flowers

SHEET	STATE	PROJECT	
2	OHIO		

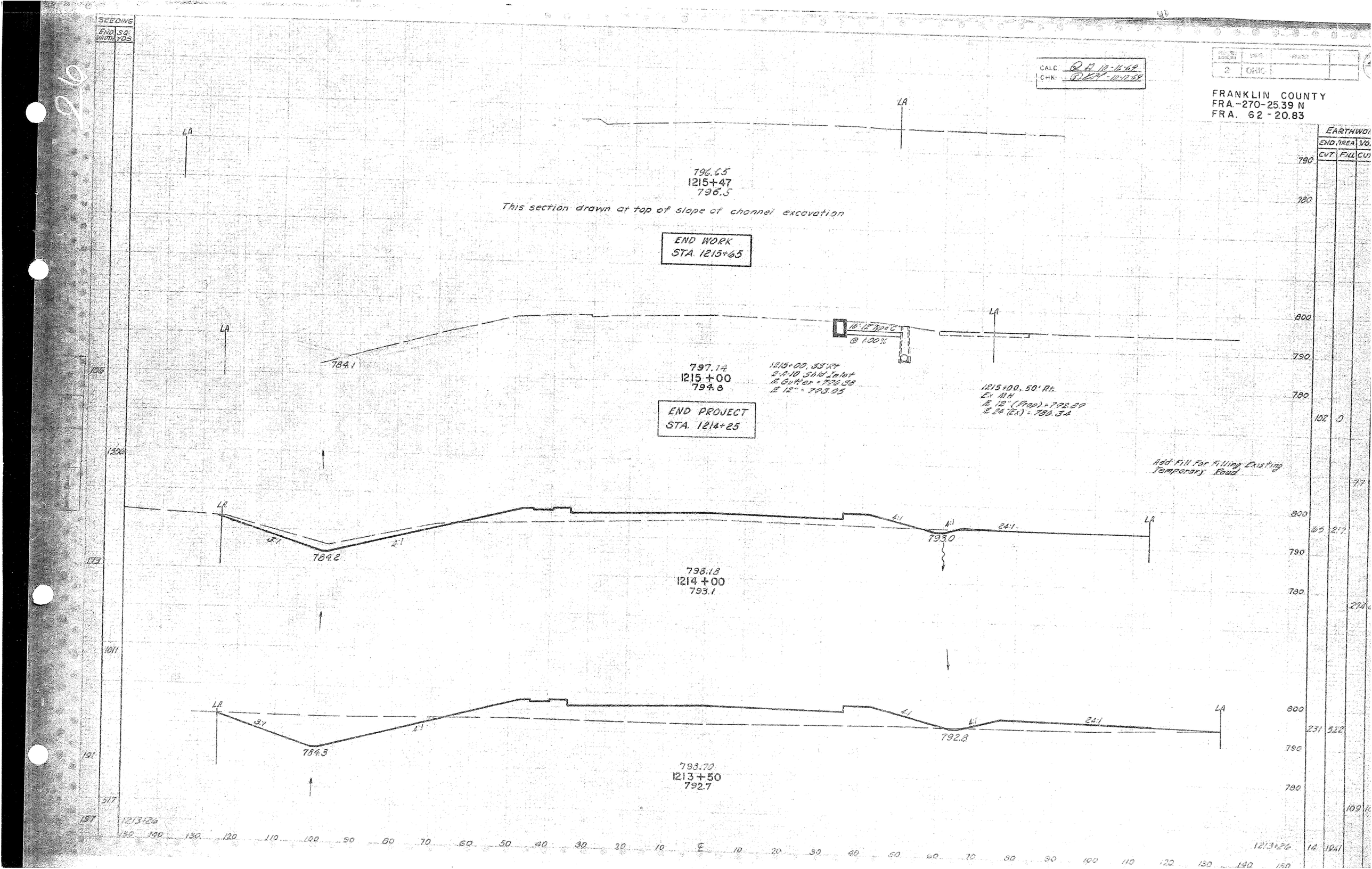
FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83



EARTHWORK			
END AREA		VOLU	
CUT	FILL	CUT	F
800			
780	14	1911	
770			7
800			
790	1	2145	
780			39

203 BORROW Using Granular Material	
END AREA	VOLUME
800	
0	
790	
780	935
800	
1010	
790	
780	2046
800	
1200	
790	
780	1885

800		800	
790	20	1695	
780		780	
800		800	
790	18	1943	
780		780	
800		800	
790	3	1461	
780		780	

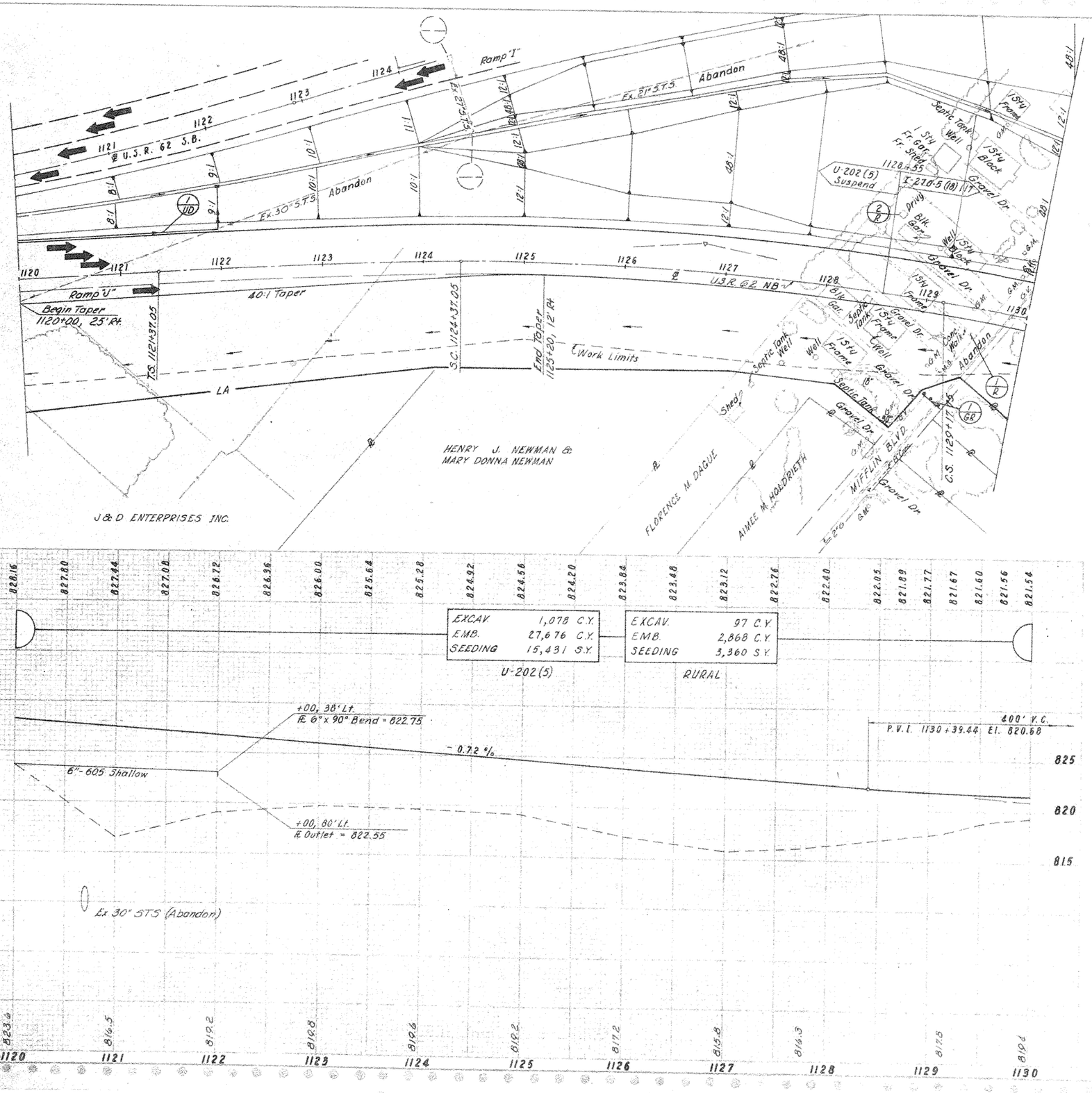


CALC. 10-16-69
CHK. 10-17-69
FRANKLIN COUNTY
FRA.-270-25.39 N
FRA. 62-20.83
SEEDING
END WORK
STA. 1215+65
796.65
1215+47
796.5
This section drawn at top of slope of channel excavation
LA
784.1
797.14
1215+00
794.8
1215+00, 33' Rt
2-A-10 Shld Inlet
℄ Gutter = 796.38
℄ 12" = 793.05
16"-12" Type C
@ 1.00%
1215+00, 50' Rt.
Ex M.H
℄ 12" (Prop) = 792.89
℄ 24" (Ex) = 786.34
END PROJECT
STA. 1214+25
Add Fill For Filling Existing Temporary Road
784.2
793.0
798.18
1214+00
793.1
784.3
792.8
798.70
1213+50
792.7
1213+26
EARTHWO
END AREA
CUT
FILL

FED. RD. DIVISION	STATE	PROJECT		212
2	OHIO			

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

SAS	10-69
QUAD	11-69



NOTES:

1. For U.S.R. 62 S.B. Plan & Profile, See Sheet No. 174
2. For Ramp "U" Plan, See Sheet No. 95
3. For Ramp "U" Profile, See Sheet No. 104
4. For Ramp "U" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 154
5. For U.S.R.-62 N.B. Cross Section See Sheet Nos. 217-220
6. For U.S.R.-62 S.B. Cross Section See Sheet Nos. 189-190
7. For Interchange Geometrics & References, See Sheet Nos. 82-86
8. Quantities for Item Special: Drilled Well Abandoned and Cleaning and Disposing of Septic Tank, have been accounted for in the General Notes.

REF.	STATION TO STATION	SIDE	202 Existing Sidewalk Removed & Disposed S.F.	603 6" Type F L.F.	605 6" Shallow U.D L.F.	606 Guard Rail Type 4 L.F.	606 Anchor Assembly EA.	Special Cleaning Privy Vault EA.	Bends & Branches	For Details See Sheet
1-UD	1120+00 to 1122+00	Lt.		10	232				1	218
1-GR	1129+28	Rt.				25	2			
1-R	1129+25	Rt.	165					1		
2-R	1128+65	Lt.								
TOTALS (RURAL)			165			25	2	1		
TOTALS U-202(5)				10	232					

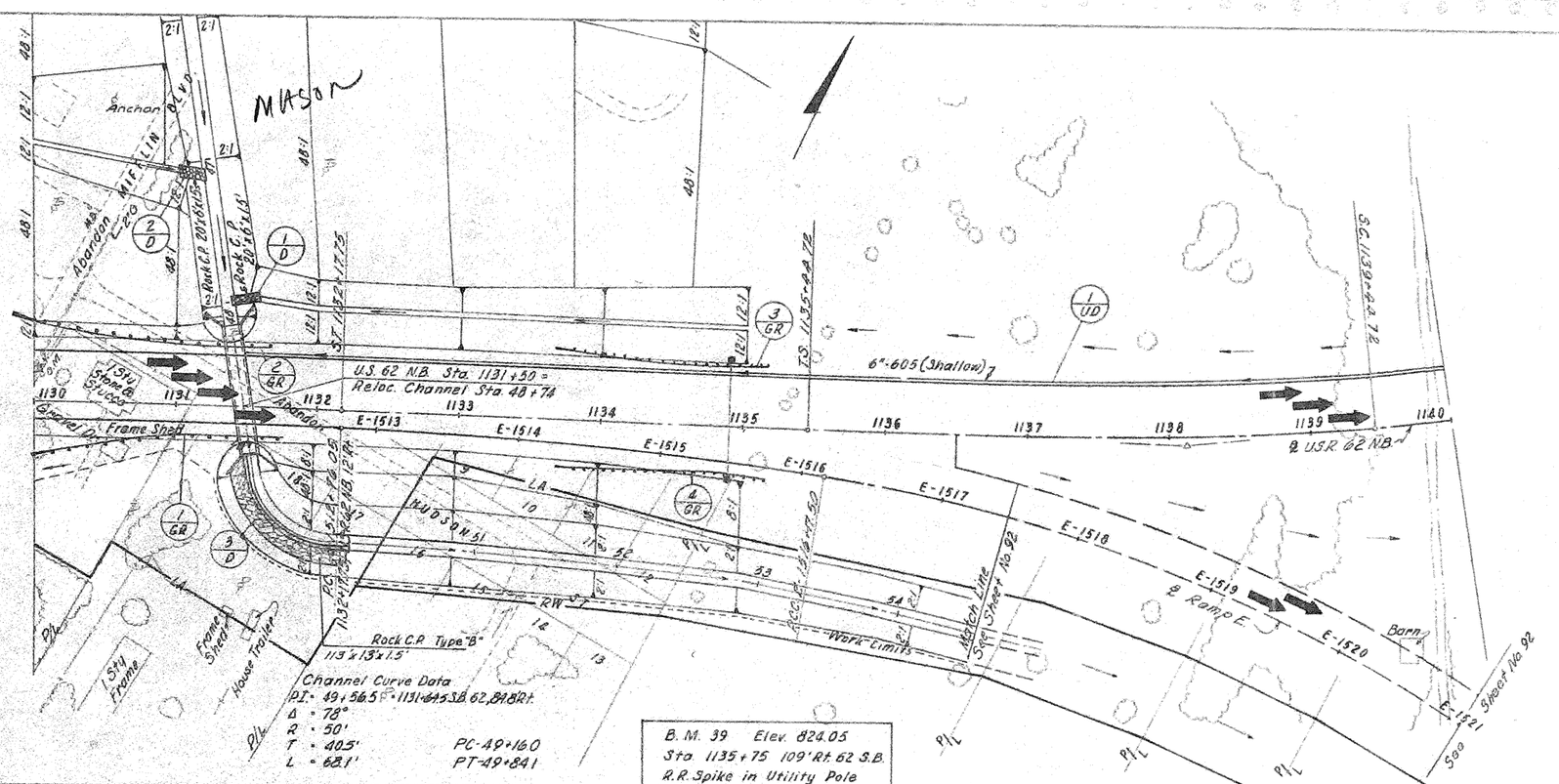
U.S.R. 62 N.B. 1120+00 TO 1130+00

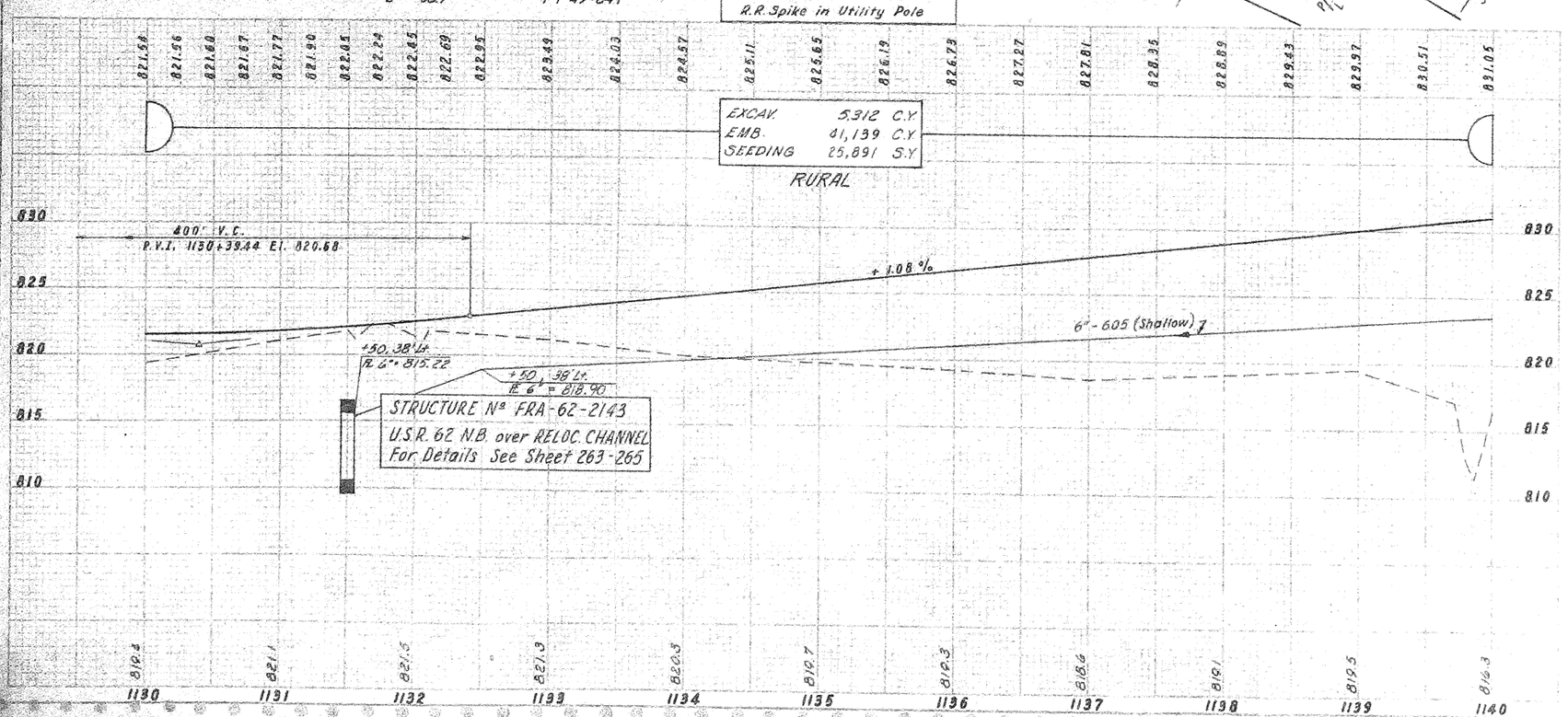
FED. R. DIVISION	STATE	PROJECT		
2	OHIO			

213

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC: SAS 10-69
CHK: JWDS 11-69





NOTES:

1. For Ramp "E" Plan, See Sheet No. 92
2. For Ramp "E" Profile, See Sheet No. 99
3. For Ramp "E" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 156
4. For Relocated Channel Cross Sections, See Sheet No. 250
5. For Relocated Channel Profile, See Sheet No. 249
6. For U.S.R.-62 N.B. Cross Sections, See Sheet Nos. 220 - 223
7. For Ramp E Cross Sections, See Sheet Nos. 120 - 121
8. For Interchange Geometrics & References, See Sheet Nos. 82-06

PROPOSED STRUCTURE

TYPE: 12' x 5' Reinforced Concrete Box Culvert
ROADWAY: 62'-0" f/f guardrails
LOADING: HS-20-44
SKEW: 9°-44'-20" LF.
ALIGNMENT: 2°-00' Spiral
SUPERELEVATION: None
AVERAGE DAILY TRAFFIC: 20,085 (1973)

For Details See Sheet No. 263-265

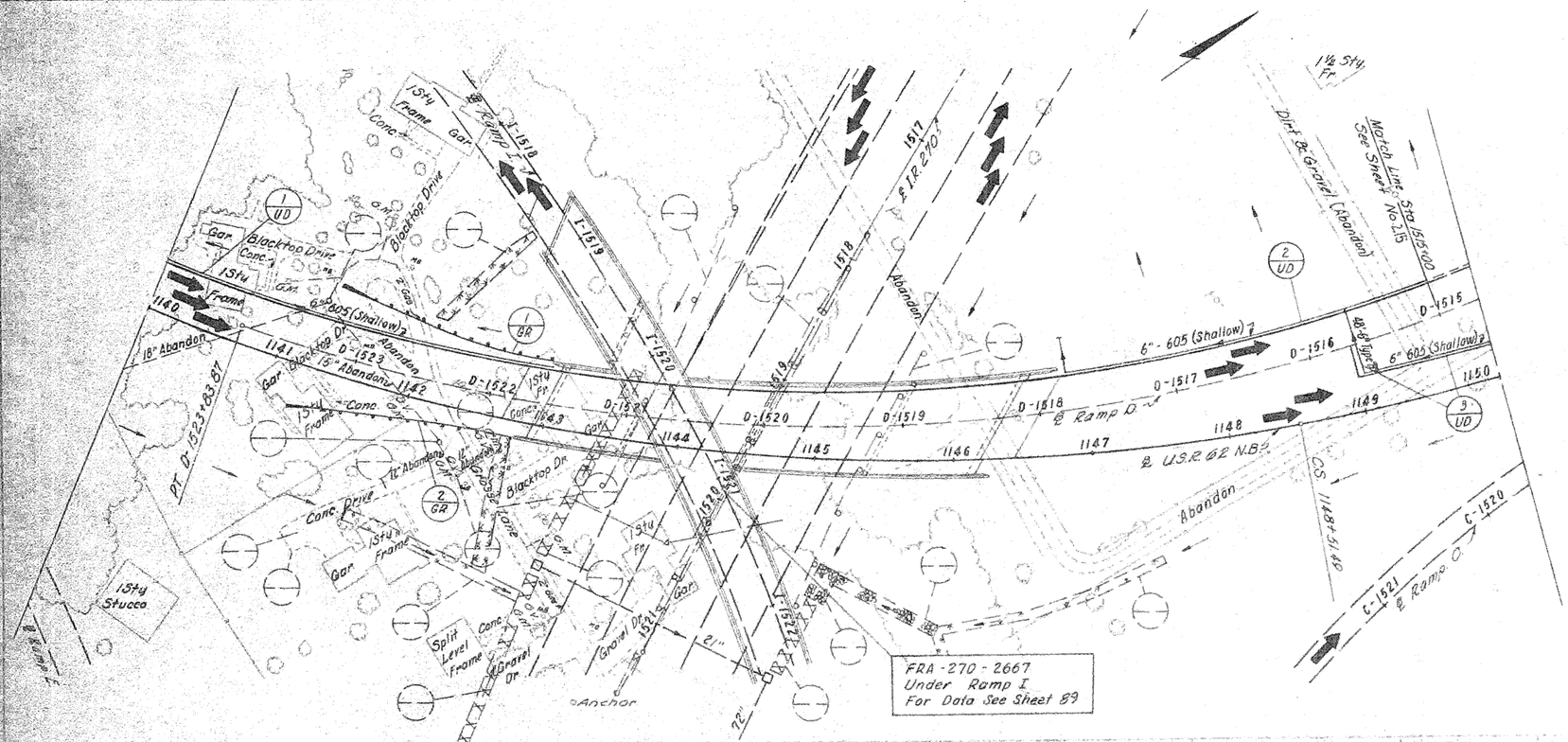
REF	STATION TO STATION	SIDE	601 Rock C.P. Type "B" C.Y.	603 Type "F" 6" LF.	605 Shallow 6" L.F.	606 Approach End Ass'y Ea.	606 Guard Rail Type 5 L.F.	606 Anchor Ass'y Ea.		
1-UD	1131+50 to 1140+00	Lt.		10	840					
1-D	1131+38 to 1131+56	Lt.	9							
2-D	1131+00 to 1131+18	Lt.	9							
3-D	1131+96 to 1132+10	Rt.	109							
1-GR	1129+96.8 to 1131+71.8	Rt.				1	175	1		
2-GR	1129+86.2 to 1131+61.2	Lt.				1	175	1		
3-GR	1138+66 to 1135+16	Lt.				1	150	1		
4-GR	E-1514+25 to E-1515+75	Rt.				1	150	1		
	TOTAL RURAL		127	10	840	4	650	4		

U.S.R. 62 N.B. 1130+00 to 1140+00

CALC	SAS	10-69
CHK	[illegible]	11-69

PROJ. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

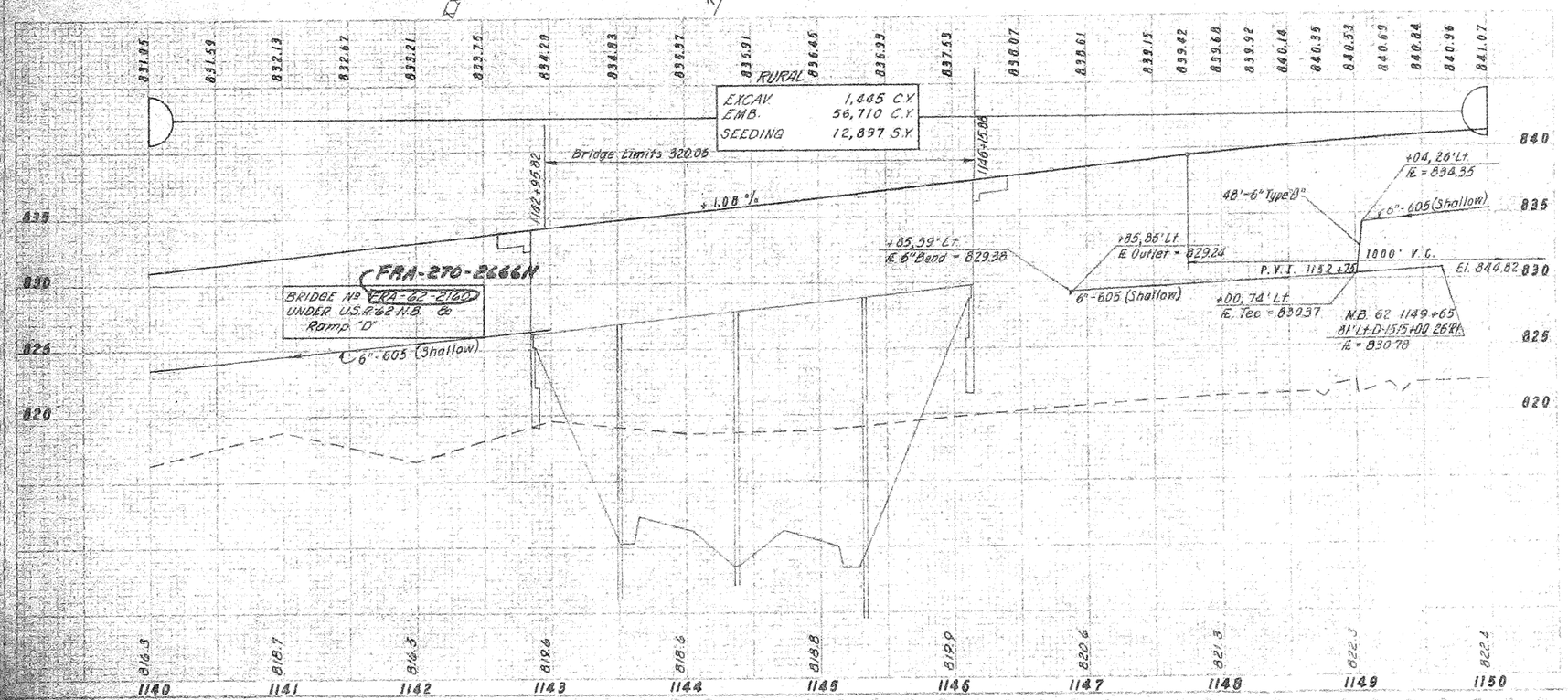


PROPOSED STRUCTURE-FRA-62-2666

TYPE: Continuous Steel Girder Bridge With Reinforced Concrete Deck & Substructures.
SPANS: 62'-6"; 89'-4"; 95'-0"; 76'-0" Along Ramp "D"
ROADWAY: Avg. Structure Width 63'-6" f/f Par.
LOADING: HS 20-44
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 26°-07'-35.8" With Tangent
APPROACH SLAB: AS-1-67 (25'-0" Long)
ALIGNMENT: 3°-50'-00" Curve Left (U.S.R. 62 N.B.)
SUPERELEVATION: 0.0833 ft/ft.
AVERAGE DAILY TRAFFIC: 12,018 (1973)

NOTES:

1. For I.R. 270 Plan & Profile, See Sheet Nos 62, 63
2. For Ramp "C" Plan, See Sheet No. 89
3. For Ramp "C" Profile, See Sheet No. 97
4. For Ramp "D" Plan, See Sheet No. 91
5. For Ramp "D" Profile, See Sheet No. 98
6. For Ramp "D" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 157
8. For Ramp "I" Plan, See Sheet Nos 89, 93
9. For Ramp "I" Profile, See Sheet No. 103
10. For Ramp "I" Cross Sections, See Sheet Nos. 133-140
11. For Ramp "C" Cross Sections, See Sheet Nos. 110-112
12. For Ramp "D" Cross Sections, See Sheet Nos. 113-119
13. For I.R. 270 Cross Sections, See Sheet Nos. 79, 80
14. For U.S.R.-62 N.B. Cross Sections, See Sheet Nos. 223, 224
15. For Interchange Geometrics & References, See Sheet Nos. 82-86



REF	STATION TO STATION	SIDE	603 Type "B" 6"	603 Type "F" 6"	605 Shallow 6"	606 Approach End Ass'y.	606 Bridge Term Ass'y.	606 Guard Rail Type 5	Bends & Branches	For Details See Sheet
			L.F.	L.F.	L.F.	Ea.	Ea.	L.F.		
1-UD	1140+00 to 1143+00	Lt.			300					
2-UD	D-1515+00 to D-1517+60	Lt.		10	297				2	224
3-UD	1149+04 to 1150+00	Lt.	48		96				1	223
1-GR	1141+37.5 to 1143+00	Lt.				1	1	162.5		
2-GR	1141+17.5 to 1142+80	Rt.				1	1	162.5		
	TOTALS RURAL		48	10	693	2	2	325.0		

Revised 3-12-71

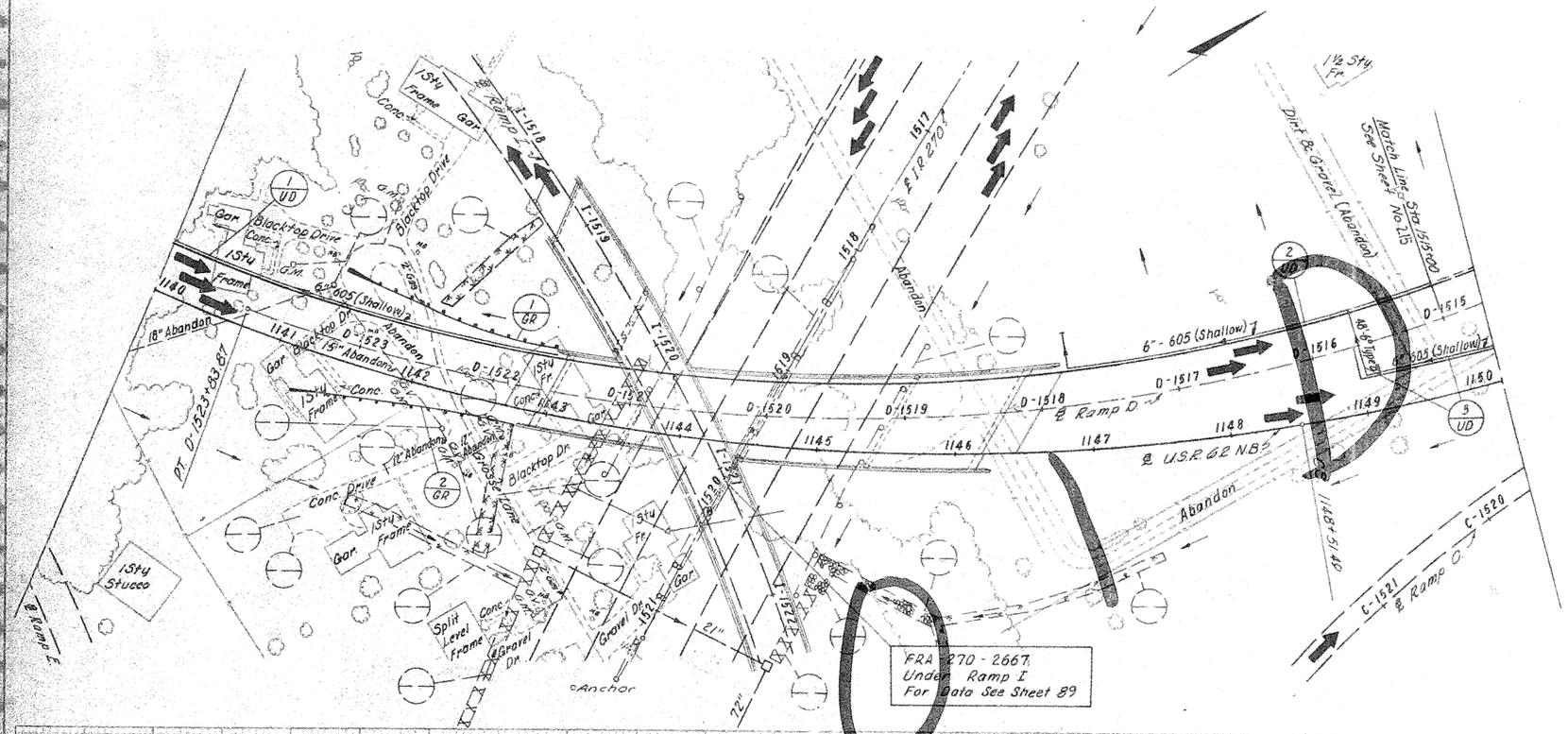
U.S.R. 62 N.B. 1140+00 TO 1150+00

CALC: SAS 10-69
CHK: [illegible] 11-69

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

214

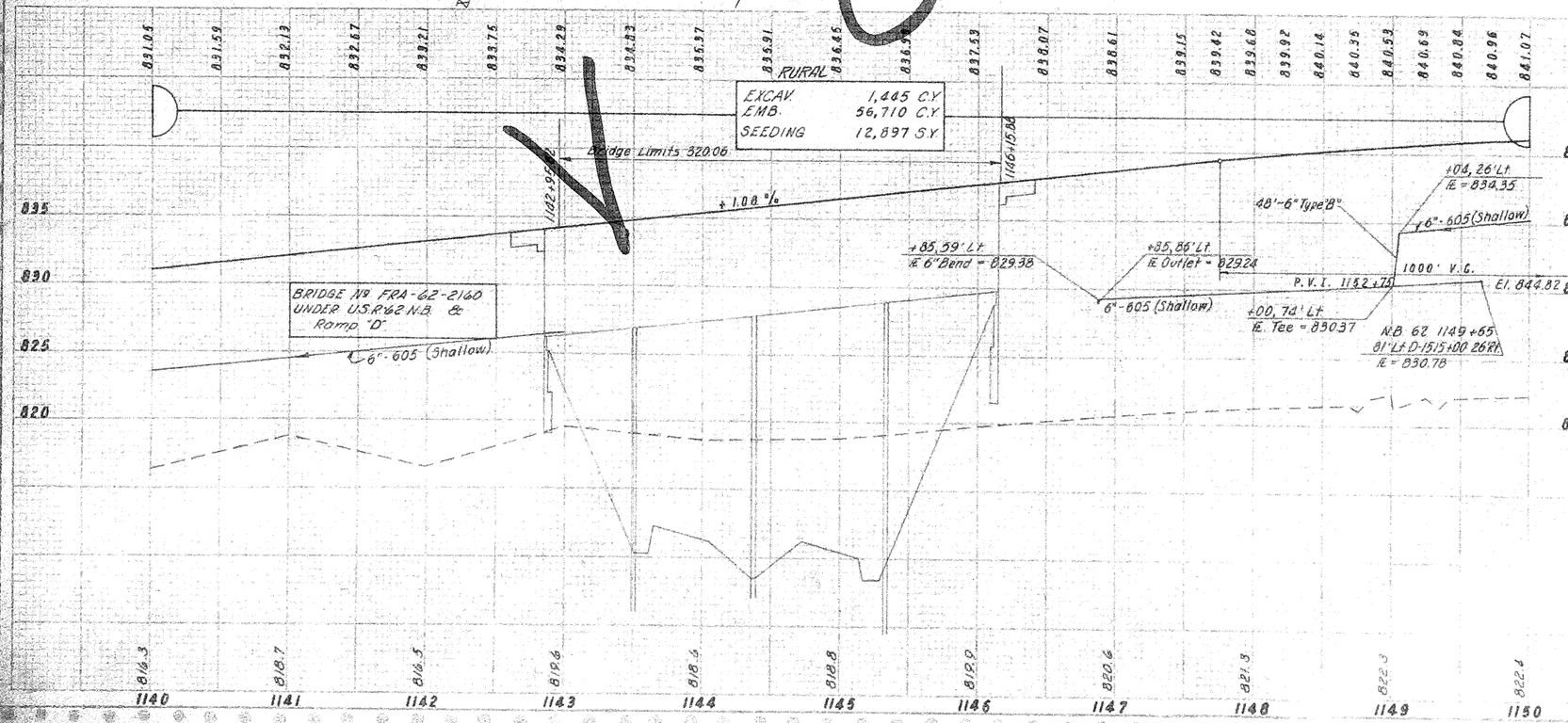
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83



PROPOSED STRUCTURE-FRA-62-2666
TYPE: Continuous Steel Girder Bridge With Reinforced Concrete Deck & Substructures.
SPANS: 62'-6"; 89'-4"; 95'-0"; 76'-0" Along Ramp "D"
ROADWAY: Avg. Structure Width 63'-6" f/f Par.
LOADING: HS 20-44
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 26°-07'-35.8" With Tangent
APPROACH SLAB: AS-1-67 (25'-0" Long)
ALIGNMENT: 3°-50'-00" Curve Left (U.S.R. 62 N.B.)
SUPERELEVATION: 0.0833 ft/ft.
AVERAGE DAILY TRAFFIC: 12,018 (1973)

NOTES:

1. For I.R. 270 Plan & Profile, See Sheet Nos 62, 63
2. For Ramp "C" Plan, See Sheet No. 89
3. For Ramp "C" Profile, See Sheet No. 97
4. For Ramp "D" Plan, See Sheet No. 91
5. For Ramp "D" Profile, See Sheet No. 98
6. For Ramp "D" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 157
8. For Ramp "I" Plan, See Sheet Nos 89, 93
9. For Ramp "I" Profile, See Sheet No. 103
10. For Ramp "I" Cross Sections, See Sheet Nos. 133-140
11. For Ramp "C" Cross Sections, See Sheet Nos. 110-112
12. For Ramp "D" Cross Sections, See Sheet Nos. 113-119
13. For I.R. 270 Cross Sections, See Sheet Nos. 79, 80
14. For U.S.R. 62 N.B. Cross Sections, See Sheet Nos. 223, 224
15. For Interchange Geometrics & References, See Sheet Nos. 82-86



REF	STATION TO STATION	SIDE	603 Type "B" 6"	603 Type "F" 6"	605 Shallow 6"	606 Approach End Ass'y.	606 Bridge Term Ass'y	606 Guard Rail Type 5	Bends & Branches	For Details See Sheet
			L.F.	L.F.	L.F.	Ea.	Ea.	L.F.		
1-UD	1140+00 to 1143+00	Lt.			300					
2-UD	D-1515+00 to D-1517+80	Lt.		10	297				2	224
3-UD	1149+04 to 1150+00	Lt.	48		96				1	225
1-GR	1141+37.5 to 1143+00	Lt.				1	1	162.5		
2-GR	1141+17.5 to 1142+80	Rt.				1	1	162.5		
	TOTALS RURAL		48	10	693	2	2	325.0		

U.S.R. 62 N.B. 1140+00 TO 1150+00

FED. RD. DIVISION	STATE	PROJECT			215
2	OHIO				

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC	SAS 1-70
CHK	WDB 1-70

8" 304

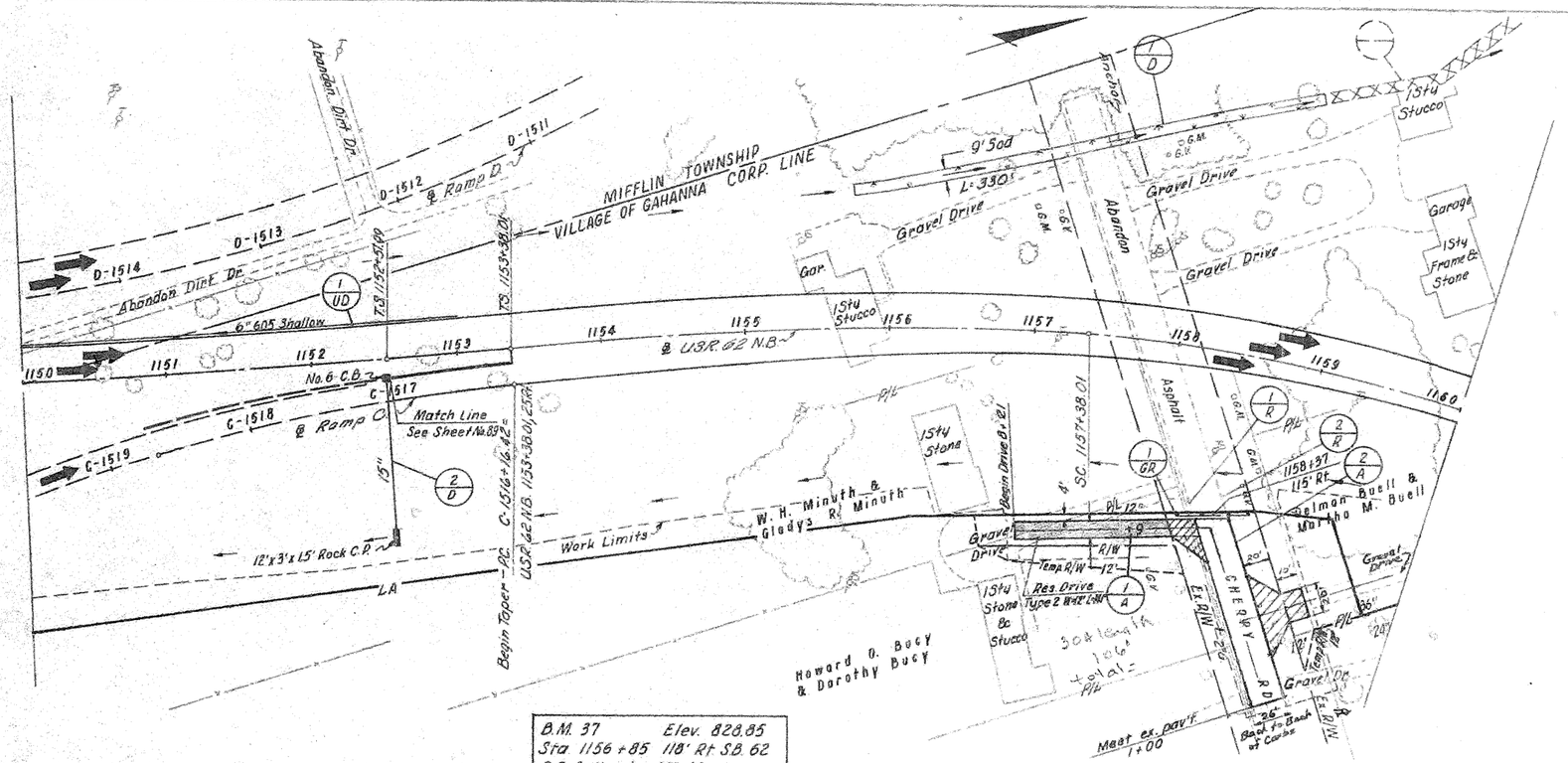
2" 404 on 5" 304

(1/A) Item 304 106 × 12 ÷ 9 × 8 ÷ 36 = 31.41 Cu. Yds.

(2/A) Area = 48.89 + 88.89 + 22.22 = 160.00 Sq. Yds.
Item 404 = 468 × 2 ÷ 36 = 9.00 Cu. Yds.
Item 304 = 468 × 5 ÷ 36 = 22.00 Cu. Yds.
Item 609 = 93 Lin. Ft.

NOTES:

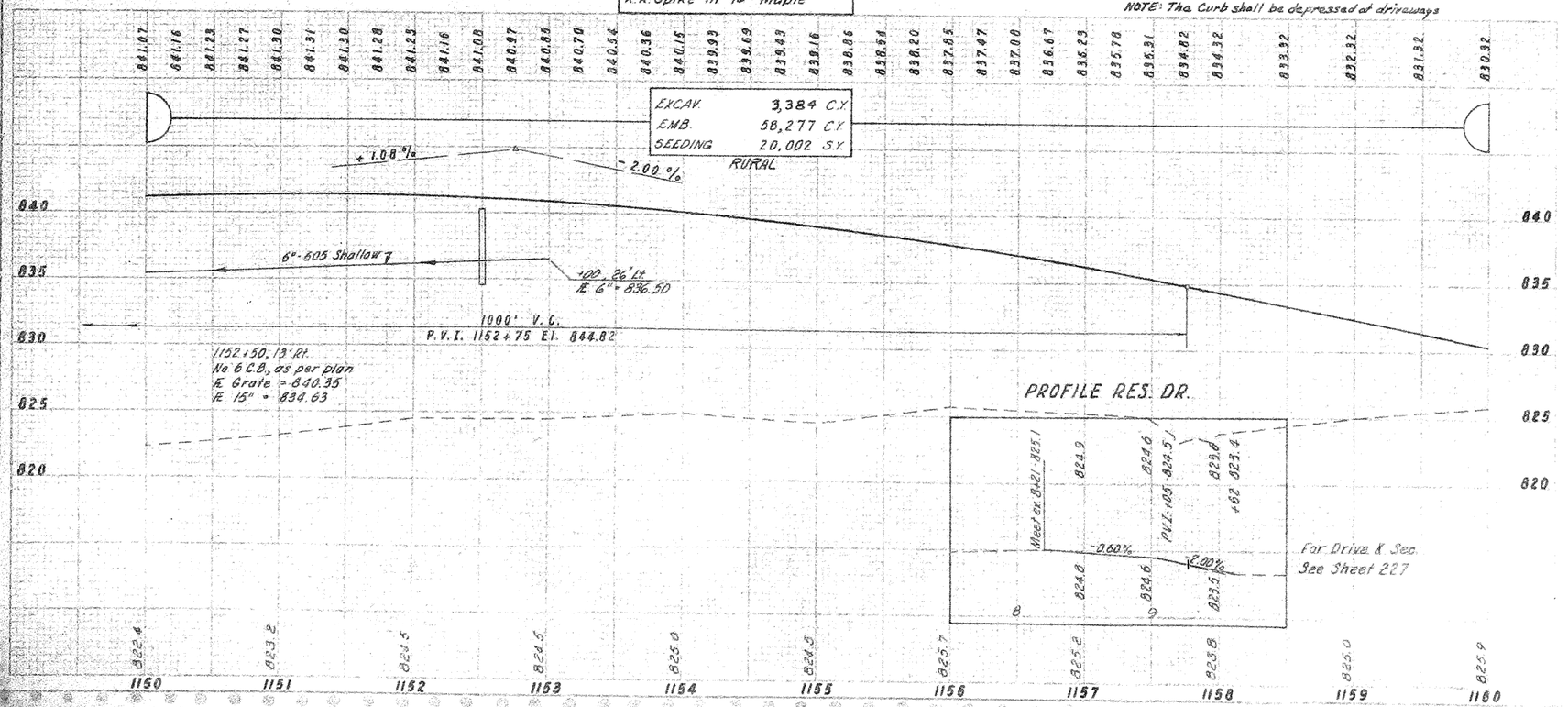
1. For Ramp "C" Plan, See Sheet No. 89
2. For Ramp "C" Profile, See Sheet No. 97
3. For Ramp "C" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 158
4. For Ramp "D" Plan, See Sheet No. 91
5. For Ramp "D" Profile, See Sheet No. 98
6. For Ramp "D" Cross Sections See Sheet Nos. 118 - 119
7. For Ramp "C" Cross Sections See Sheet No. 110
8. For U.S.R.-62 N.B. Cross Sections See Sheet Nos. 225 - 228
9. For Interchange Geometrics & References, See Sheet Nos. 82 & 86



B.M. 37 Elev. 828.85
Sta. 1156+85 118' Rt. S.B. 62
R.R. Spike in 14" Maple

EXCAV.	3,384 C.Y.
EMB.	58,277 C.Y.
SEEDING	20,002 S.Y.

RURAL



* as per plan

REF	STATION TO STATION	SIDE	202 Ct. Curb & Gutter Removed & Disposed of L.F.	304 Aggr. Base C.Y.	404 Asph. Conc. 85/100 C.Y.	601 Rock C.P. Type "B" 15" C.Y.	603 Type "C" 15" L.F.	604 No. 6 C.B. Ea.	605 * 6" Shallow C.B. L.F.	605 6" Pipe Edge Drain L.F.	606 Guard Rail Anchor Assembly Ea.	609 Conc. Curb & Gutter L.F.	660 Seeding S.Y.	Bends & Branches See Detail Sht. No. 15"
1-UD	1150+00 to 1153+00	Lt.							300					
1-GR	1158+12 to 1158+62	Rt.									50	2		
1-D	1155+75 to 1158+65	Lt.												
2-D	1152+50	Rt.				3	54	50	1				330	
														2 226
1-A	1156+90 to 1158+80	Rt.		31										
2-A	1158+92	Rt.		22	9									
												93		
1-R	1158+28	Rt.	131											
2-R	1158+58	Rt.	96											
TOTALS RURAL			227	53	9	3	54	50	1	300		50	2	93 330

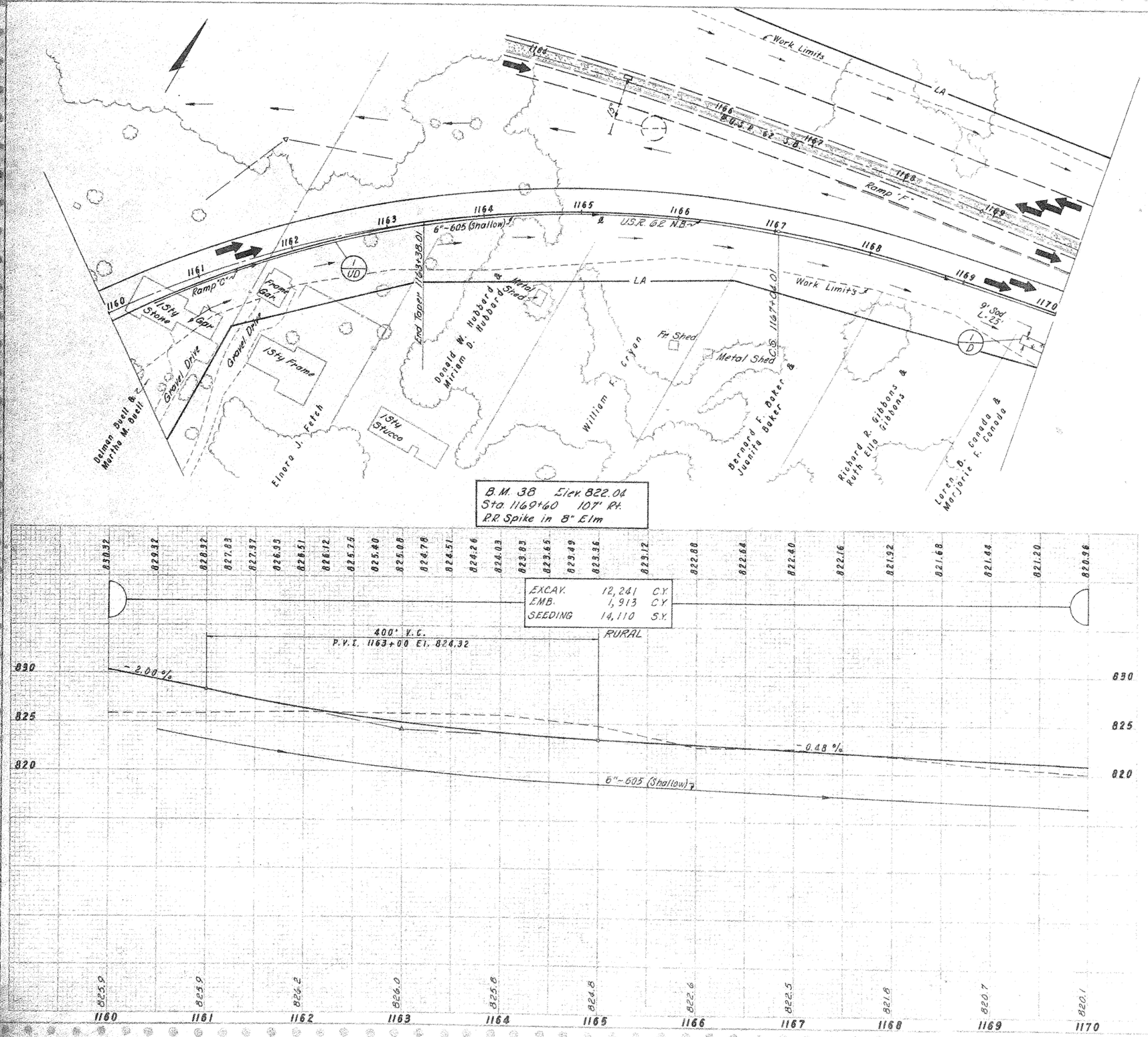
U.S.R. 62 N.B. 1150+00 TO 1160+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

216

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CALC SAS 10-69
CHK WDH 11-69



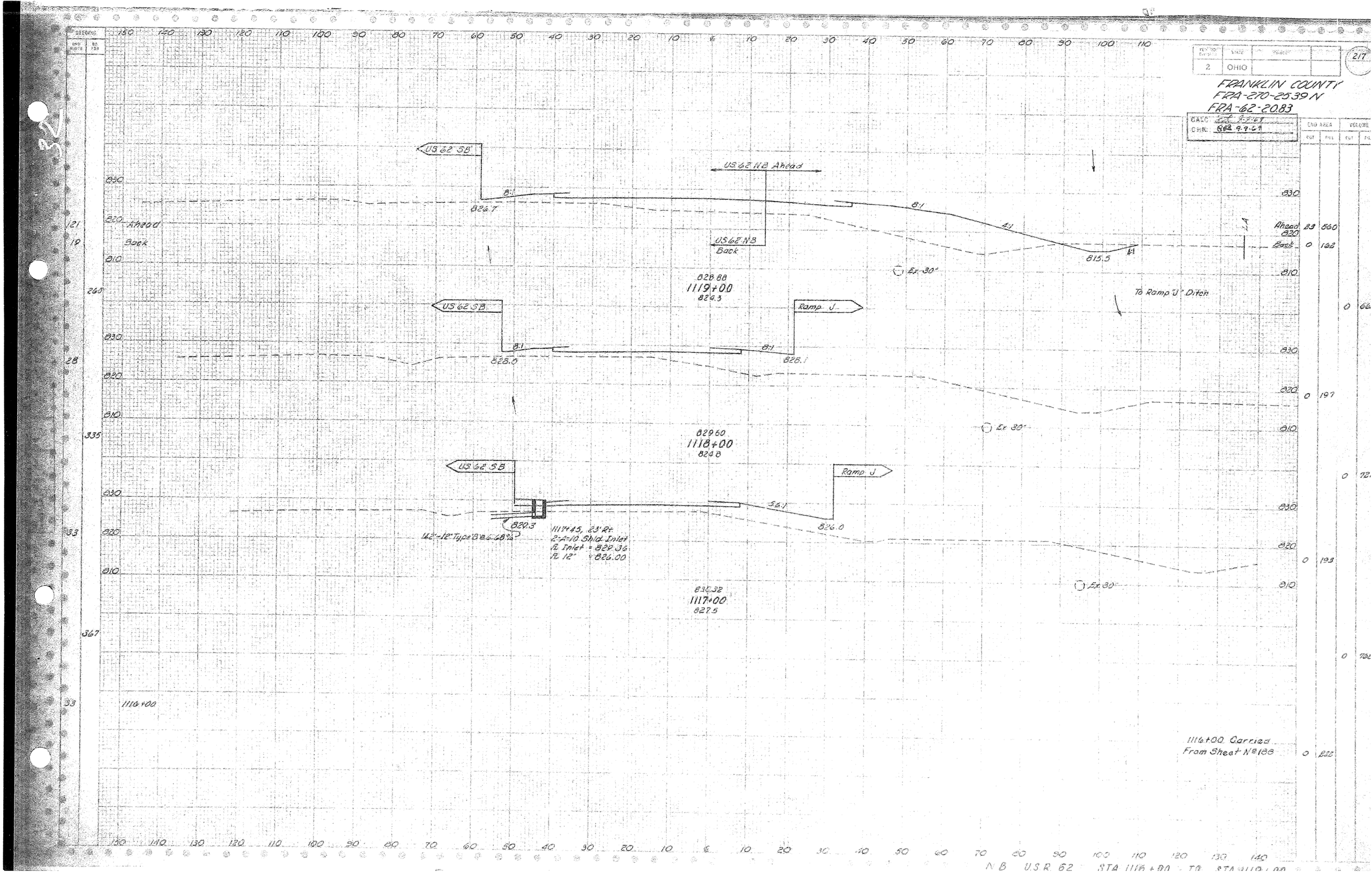
B.M. 38 Elev. 822.04
Sta. 1169+60 107' Rt.
R.R. Spike in 8" Elm

NOTES:

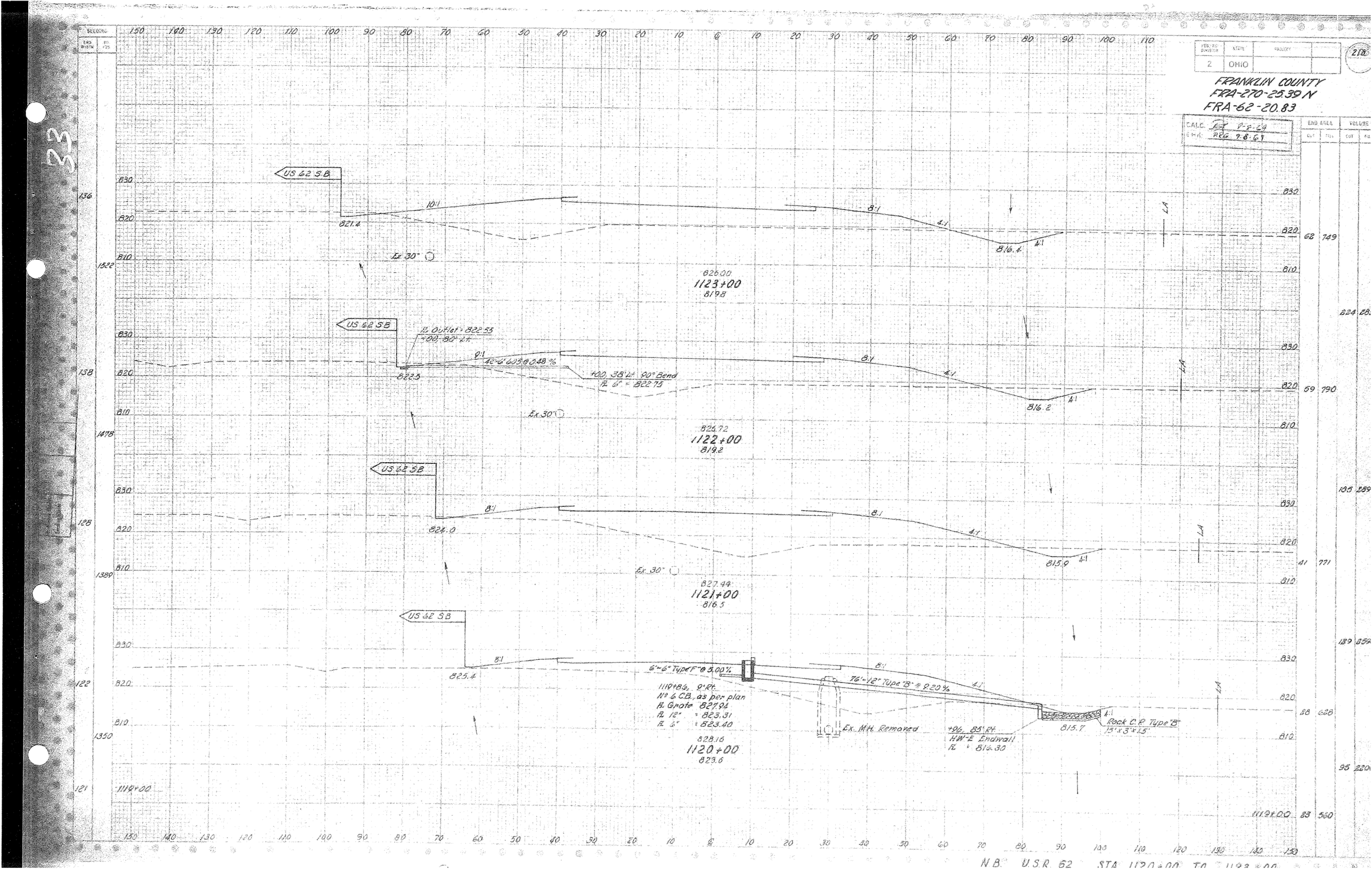
1. For Ramp "C" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 158
2. For U.S.R. 62 S.B. Plan & Profile, See Sheet No. 178
3. For Ramp "F" & U.S.R. 62 N.B. Pavement Details, See Sheet No. 166
4. For U.S.R.-62-N.B. Cross Sections, See Sheet Nos. 228-230
5. For U.S.R.-62-S.B. Cross Sections, See Sheet Nos. 200-201
6. For Interchange Geometrics & References, See Sheet Nos. 82-86

REF.	STATION TO STATION	SIDE	605 Shallow 6"	660 Sodding
			L.F.	S.Y.
1-UD	1160+50 to 1170+00	Rt	950	
1-D	1169+75 to 1170+00	Rt		25
	TOTALS RURAL		950	25

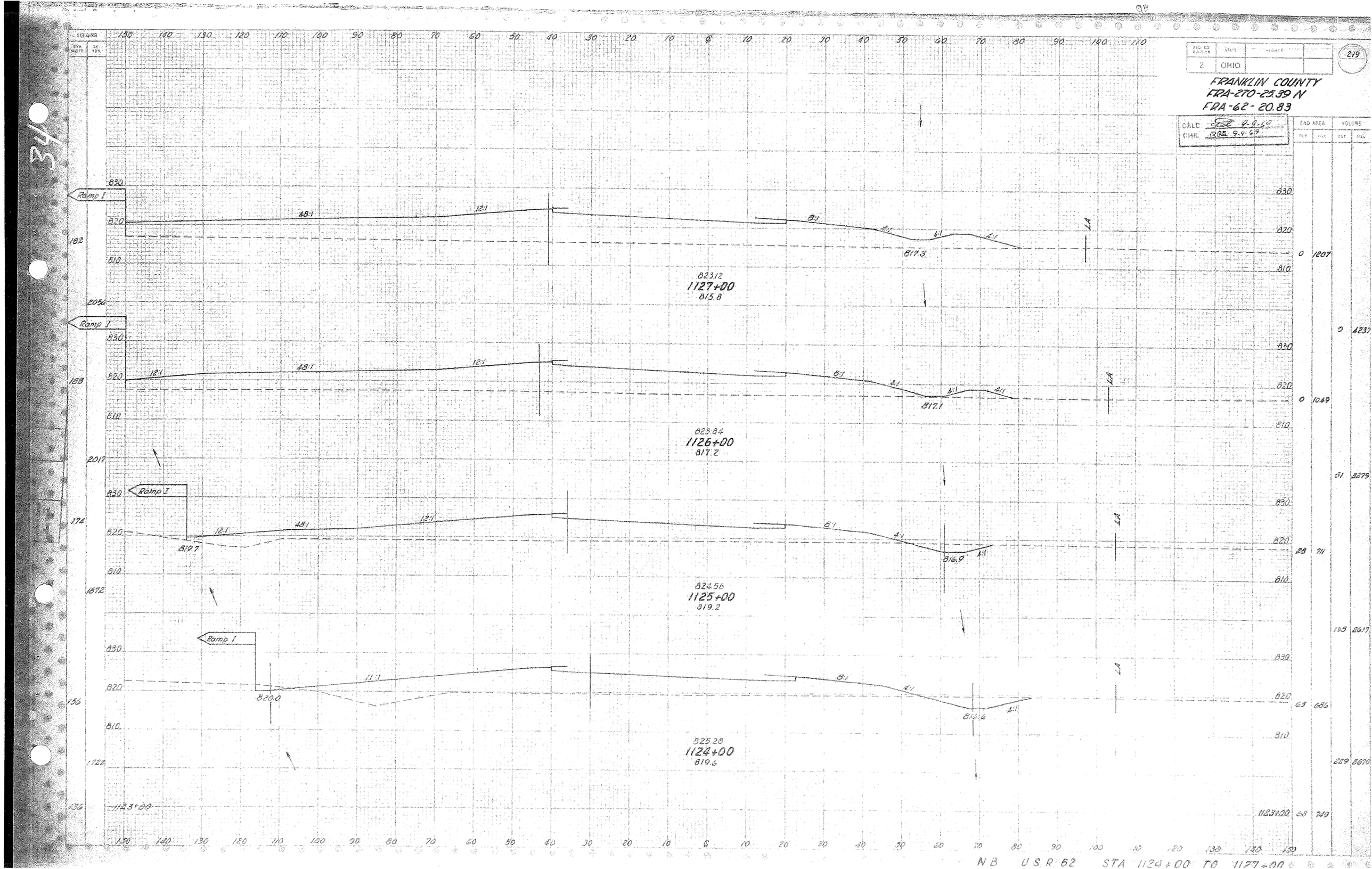
U.S.R. 62 N.B. 1160+00 TO 1170+00



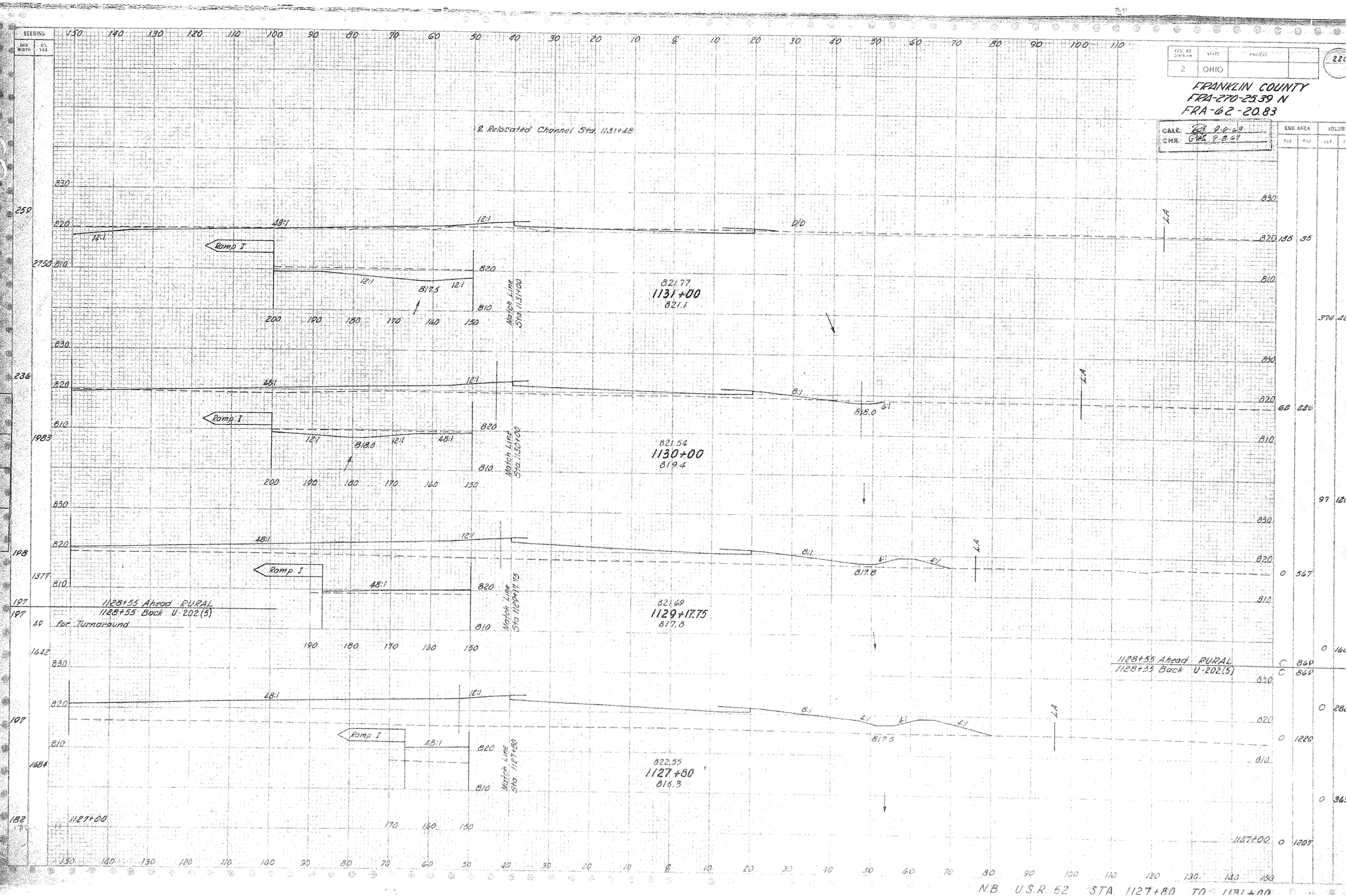
2
OHIO
217
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
US 62 SB
US 62 NB Ahead
US 62 NB Back
8:1
826.7
4:1
815.5
Ahead
Back
Ex 30"
828.88
1119+00
824.3
To Ramp "J" Ditch
Ramp J
828.0
828.1
829.60
1118+00
824.8
829.3
826.0
1117+45, 23' Rt.
2-A-10 Shld Inlet
Pl Inlet = 829.36
Pl 12" = 826.00
830.32
1117+00
827.5
1116+00
1116+00 Carried
From Sheet No 188
END AREA
VOLUME



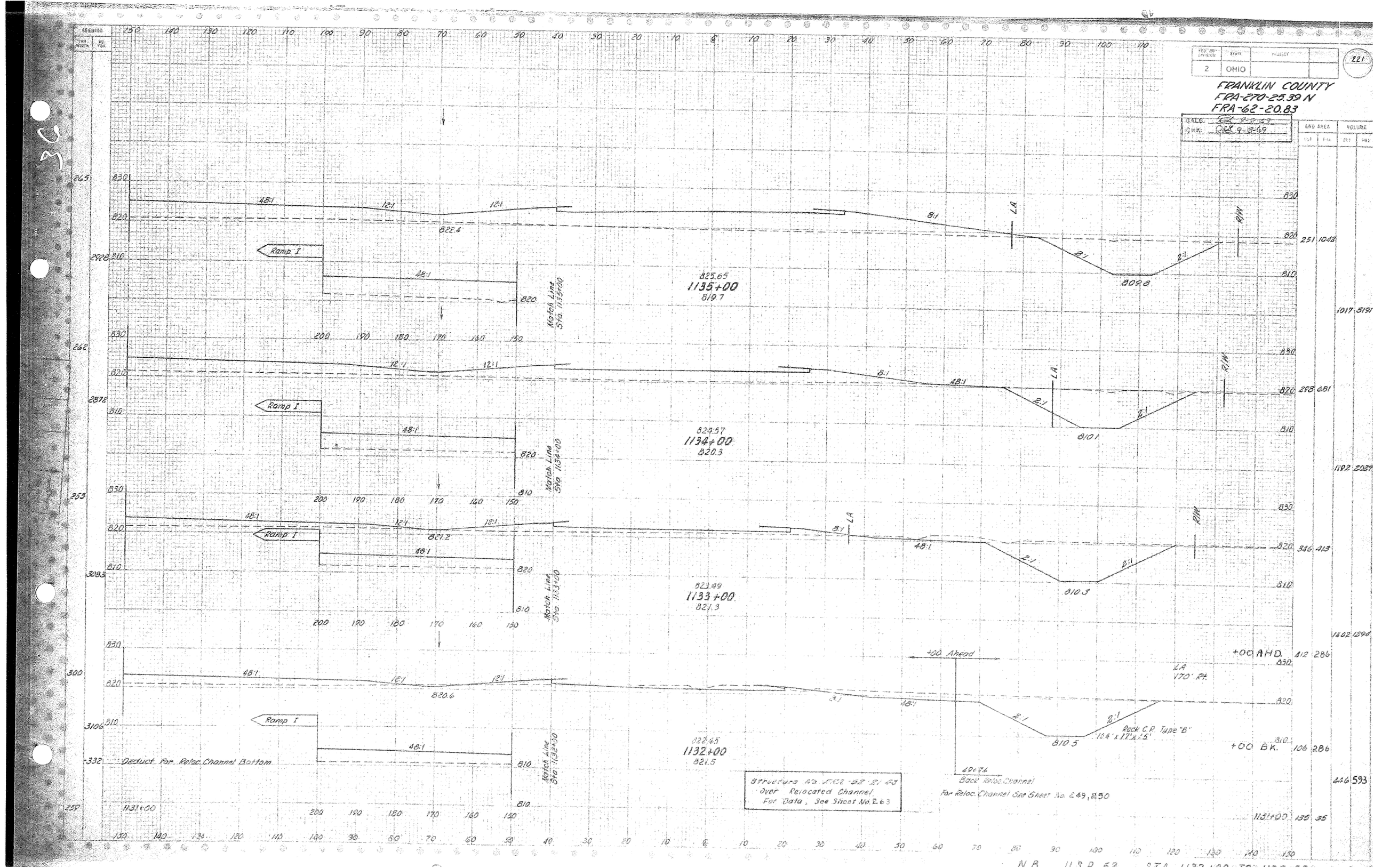
N.B. U.S.R. 62 STA. 1120+00 TO 1123+00



FED. RD. DIVISION 2
STATE OHIO
219
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CALC. 9-9-69
CHK. 9-9-69
END AREA
VOLUME
Ramp I
48:1
12:1
8:1
4:1
LA
817.3
823.12
1127+00
815.8
817.1
823.84
1126+00
817.2
819.7
816.9
824.56
1125+00
819.2
820.0
816.6
825.28
1124+00
819.6
1123+00
0 1207
0 4237
0 1049
51 3279
28 711
165 2617
63 686
289 8670
68 749
NB U.S.R. 62 STA 1124+00 TO 1127+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
2 OHIO
CALC. 9-8-69
CHK. 9-8-69
℄ Relocated Channel Sta. 1131+48
Ramp I
821.77
1131+00
821.1
821.54
1130+00
819.4
821.69
1129+17.75
817.8
822.55
1127+80
816.3
Match Line Sta. 1131+00
Match Line Sta. 1130+00
Match Line Sta. 1129+17.75
Match Line Sta. 1127+80
1128+55 Ahead RURAL
1128+55 Back U-202(5)
For Turnaround
1127+00
END AREA
VOLUME
N.B. U.S.R. 62 STA. 1127+80 TO 1131+00



FED. RD. DIVISION 2
STATE OHIO
221
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
DATE 9-8-69
CHK. 9-8-69
END AREA
VOLUME
Ramp I
Match Line Sta. 1135+00
Match Line Sta. 1134+00
Match Line Sta. 1133+00
Match Line Sta. 1132+00
825.65
1135+00
819.7
824.57
1134+00
820.3
823.49
1133+00
821.3
822.45
1132+00
821.5
822.4
821.2
820.6
809.8
810.1
810.3
810.5
LA
R/W
+00 Ahead
LA 170' Rt.
Rock C.P. Type "B" 10.4' x 17' x 1.5'
49+74 Back Reloc. Channel
For Reloc. Channel See Sheet No. 249, 250
Deduct For Reloc. Channel Bottom
1131+00
+00 AHD.
+00 BK.
251 1048
1017 3191
298 681
1192 2087
346 413
1402 1294
412 286
106 286
446 593
135 35
Structure No. FRA-62-21.43 Over Relocated Channel For Data, See Sheet No. 2.63

97

DIST	COUNTY	SHEET	TOTAL SHEETS
2	OHIO		222

FRANKLIN COUNTY
FRA-270-28.39 N
FRA-62-20.83

ST. RTE.	SECTION	LENGTH	LAND AREA	VOLUME
	62 B.S.C.T.			

Ramp E
8:1
819.5
Ramp E
8:1
822.5
Ramp E
8:1
826.2
Ramp E
8:1
829.0
Ramp I
2.6:1
830
820
Match Line Sta 1139+00
Ramp I
11.1:1
830
820
Match Line Sta 1138+00
Ramp I
22:1
830
820
Match Line Sta 1137+00
Ramp I
48:1
820
Match Line Sta 1136+00
Ahead
Back
US 62 NB Ahead
Ramp E 13&16 SB Ahead
US 62 NB Back
8:1
8:1
8:1

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

223

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

Zero Earthwork Sta. 1143+18

1143+18

Ramp I

8:1

I-270

4:1

4.8:1

4:1

6:1

B11.0

9-8-69
DRG. 9-8-69

Ramp I

3.2:1

8:1

B28.0

834.29
1143+00
819.6

Full Section Sta. 1143+05

8:1

4:1

B14.4

6:1

Ramp I

4.8:1

B25.8

8:1

833.21
1142+00
816.5

8:1

4:1

B14.8

6:1

7:1

B24.6

8:1

832.18
1141+00
818.7

8:1

4:1

B15.0

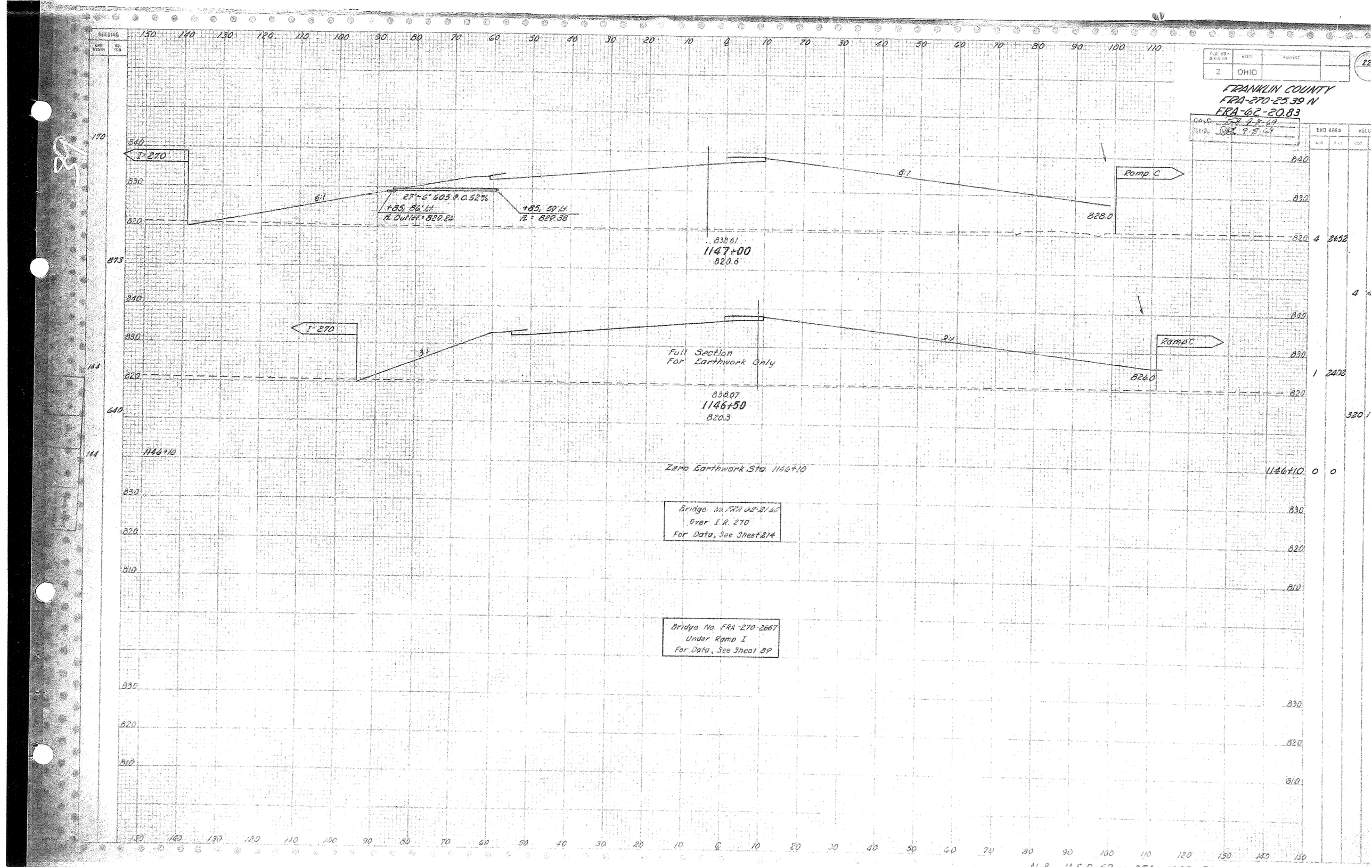
6:1

831.05
1140+00
816.3

1139+00

N.B. U.S.R. 62 STA. 1140+00 TO 1143+00

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1143+18	0	0		
			36	35
	138	1451		
			500	280
	101	2293		
			333	832
	68	2226		
			161	978
	14	3195		
			87	982
1139+00	0	2185		



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
2
OHIO
I-270
Ramp C
6:1
8:1
27'-6" 605 @ 0.52%
+85, 86' Lt.
Pl. Outlet = 829.24
+85, 59' Lt.
Pl. = 829.38
828.0
838.61
1147+00
820.6
I-270
Ramp C
3:1
9:1
Full Section
For Earthwork Only
826.0
838.07
1146+50
820.3
1146+10
Zero Earthwork Sta. 1146+10
Bridge No. FRA 62-21.60
Over I.R. 270
For Data, See Sheet 214
Bridge No. FRA-270-2667
Under Ramp I
For Data, See Sheet 89

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

225

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CONT	Col	9.8.69	
CHK	QRP	8.11.69	

| SEEDING | | |

FED. ROAD DIV. & NO.	STATE	PROJECT	
2	OHIO		

226

FRANKLIN COUNTY
FRA-270-25.59 N
FRA-62-20.83

SEEDING

STA.	SQ. YDS.
1155+00	175
1154+00	1950
1153+00	178
1152+50	1839
1152+00	162
1151+50	1733
1151+00	153
	36
	406
	37

Ramp D — 834.1 — 10:1 — 8:1 — 4:1 — 6:1 — 821.9

839.10
1155+00
828.5

Ramp D — 836.6 — 8:1 — 8:1 — 4:1 — 6:1 — 821.7

840.15
1154+00
825.0

Ramp D — 836.2 — 8:1 — 8:1 — 4:1 — 6:1 — 821.5

1152+50, 13' Rt.
№ 6 C.B., as per plan
Rt. Grate 840.35
Rt. 15" 834.63

840.85
1153+00
824.5

54'-15" Type "B" @ 7.28%

US 62 NB Ahead

15"x10" Bend Type "F" Elev. 830.70

36'-15" Type "F" @ 25.00%

15"x15" Bend Type "F" Elev. 821.70

14'-18" Type "F" @ 0.50%

Rt. 821.63

821.3

Rock C.P. Type "B" 12'x3'x1.5'

HW-E Endwall 1152+50, 14' Lt.

Ramp D — 836.6 — 8:1 — 8:1 — 4:1 — 821.3

Ahead

US 62 NB Back | C-1617+55 Ahead

841.23
1152+00
824.5

Back

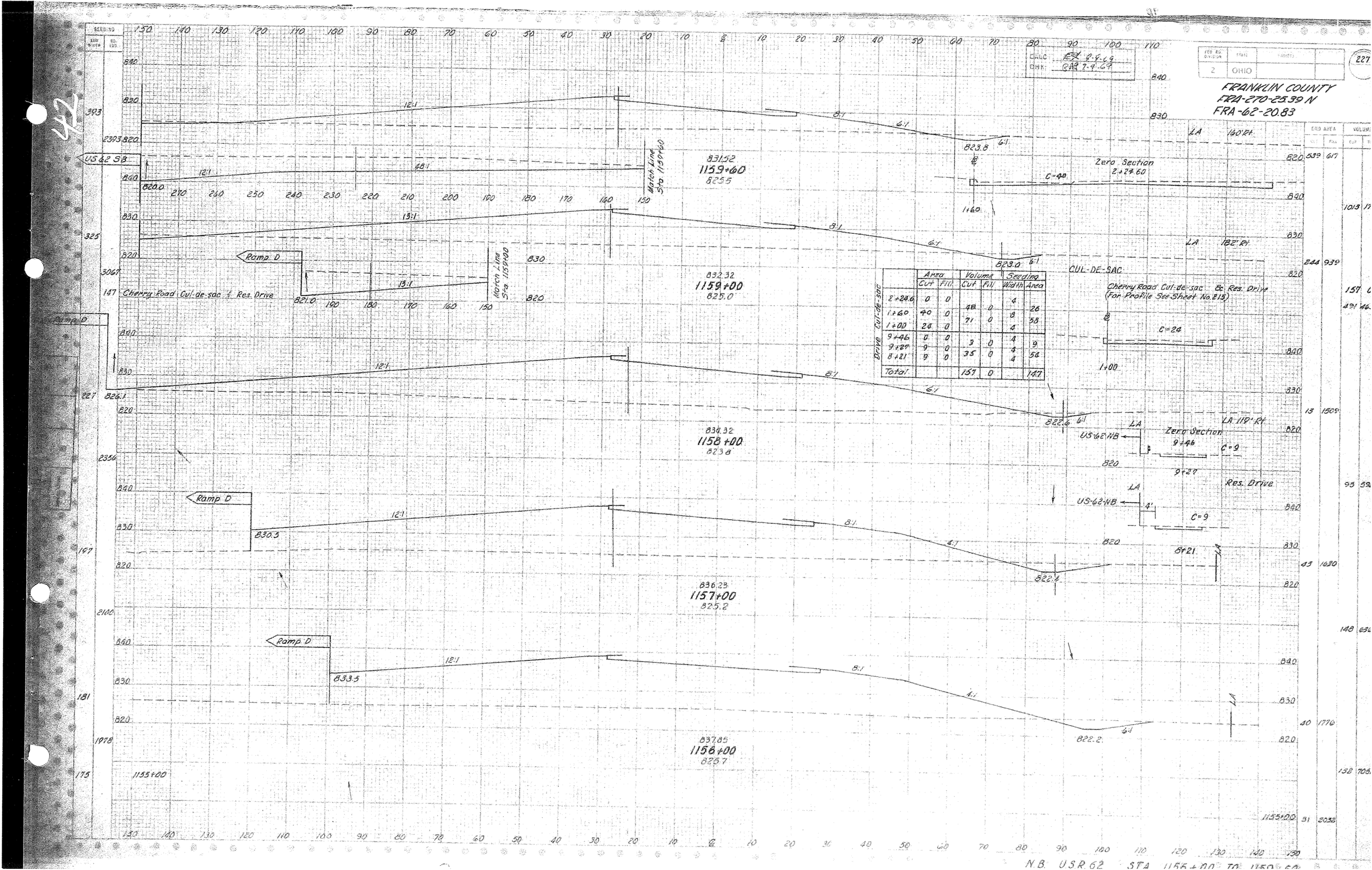
821.2 — 6:1

LA 153' Rt.

LA 150' Rt.

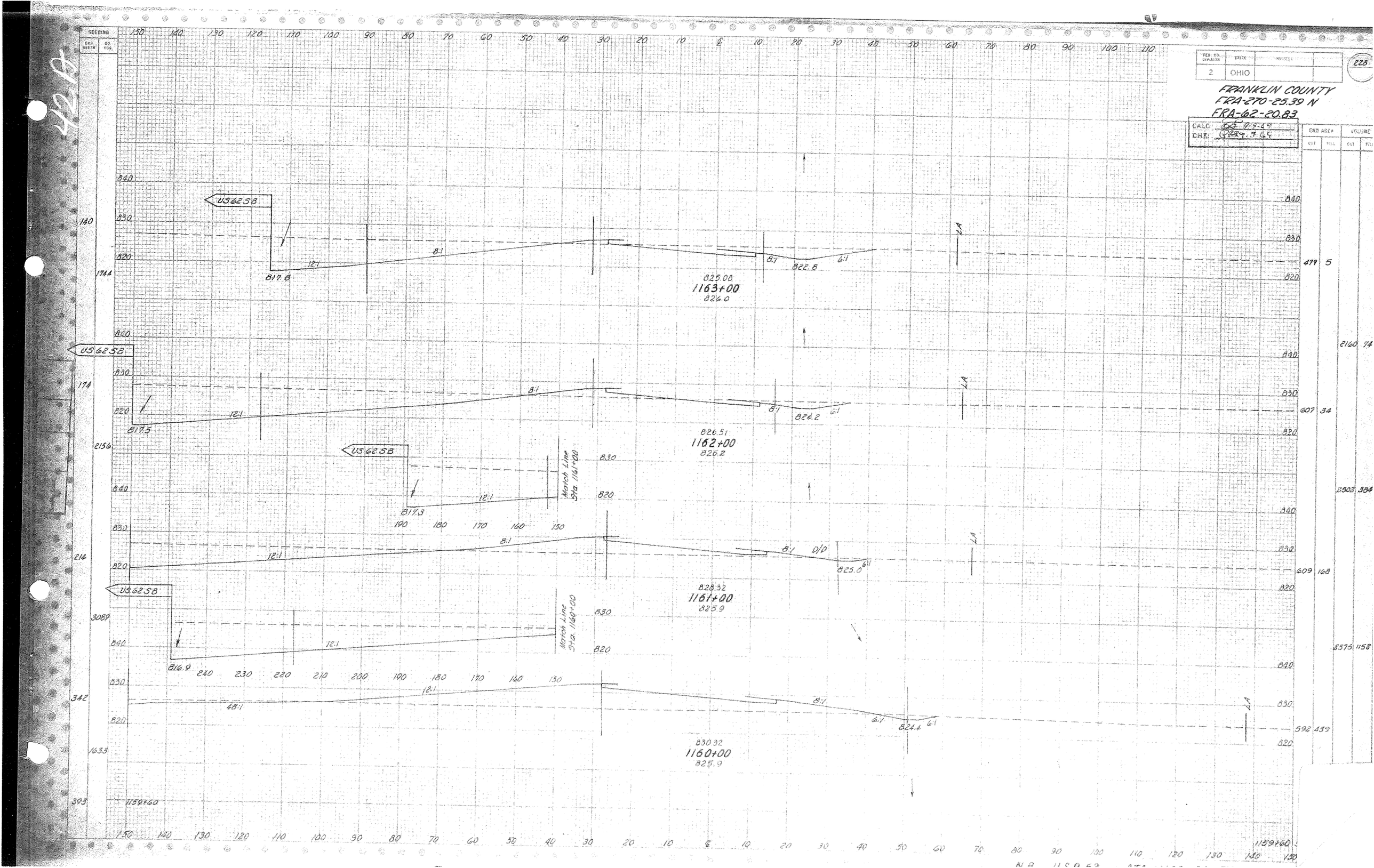
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1155+00				
			31	2030
1154+00				
			182	752
1153+00				
			35	8066
1152+50				
			156	761
1152+00				
			50	8047
1151+50				
			155	772
1151+00				
Ahead			34	8124
Back			0	1146
			0	0
1151+00			0	1801

N.B. U.S.R. 62 STA. 1152+00 TO 1155+00

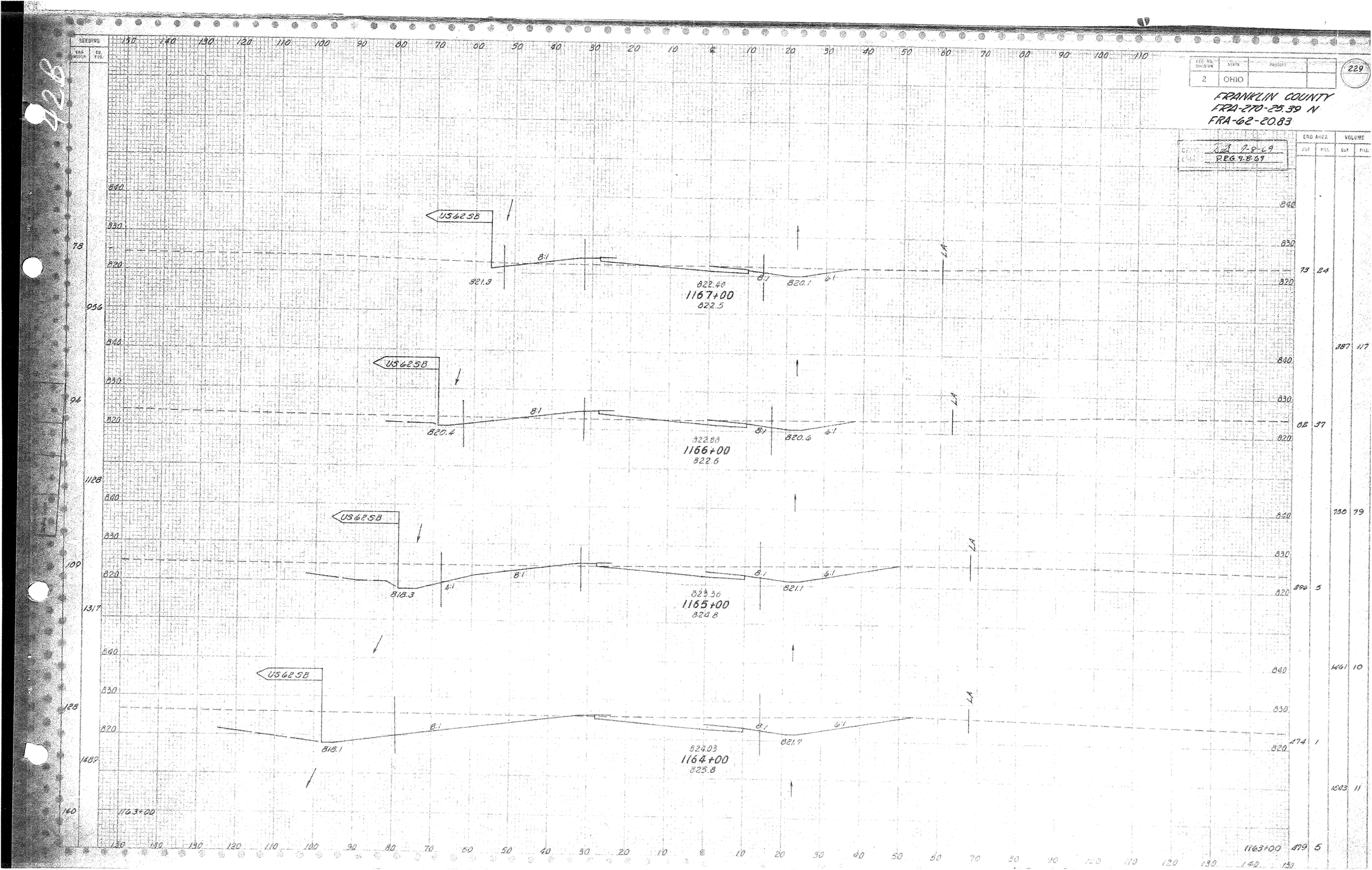


Drive Cul-de-sac	Area Cut	Area Fill	Volume Cut	Volume Fill	Seeding Width	Seeding Area
2+24.6	0	0			4	
1+60	40	0	48	0	8	26
1+00	24	0	71	0	4	58
9+46	0	0			4	
9+27	9	0	3	0	4	9
8+21	9	0	35	0	4	54
Total			157	0		147

N.B. U.S.R. 62 STA. 1155+00 TO 1159+60



FED. RD. DIVISION
2
STATE
OHIO
228
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CALC.
CHK.
SEEDING
END AREA
VOLUME
US 62 SB
817.8
12:1
8:1
822.8
6:1
825.08
1163+00
826.0
LA
817.5
824.2
826.51
1162+00
826.2
817.3
Match Line Sta. 1161+00
825.0
D/D
828.32
1161+00
825.9
816.9
Match Line Sta. 1160+00
48:1
824.4
830.32
1160+00
825.9
1159+60
479 5
2160 74
607 34
2502 384
609 168
8575 1158
592 439



FED. RD. DIVISION 2
STATE OHIO
PROJECT
229
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CHECKED 9-8-69
DATE P.E.G. 9.8.69
SEEDING
END AREA
VOLUME
CUT
FILL
US 62 SB
8:1
6:1
LA
821.3
822.40
1167+00
822.5
820.1
820.4
822.88
1166+00
822.6
820.6
818.3
823.36
1165+00
824.8
821.1
818.1
824.03
1164+00
825.8
821.7
78
956
94
1128
109
1317
128
1489
140
1163+00
73 24
287 117
82 37
788 79
896 5
1461 10
474 1
1043 11
479 5

SEEDING

SHEET NO.	STATE	PROJECT	
2	OHIO		

230

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CALC. [illegible] 6-6-67
CHKD. DB 9-7-67

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
840				
830				
820				
840				
830				
820				
840				
830				
820				
840				
830				
820				
840				
830				
820				

+04 Bk.

820.96
1170+00
820.1

1170+04 Carried From Sheet No 201

48 2

676

US 62 SB

12:1
821.6
8:1
818.7
6:1

821.44
1169+00
820.7

733

US 62 SB

8:1
821.5
8:1
818.9
6:1

821.92
1168+00
821.8

1167+00

183 11

47 5

139 19

59 5

243 56

1167+00 73 84

N.B. US 62 STA 1168+00 TO STA 1169+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

CALC SAS - 10-69
CHK WDS - 11-69

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

NOTE: Resurface the existing pavement with 1½" of 404 on a minimum of ½" of 402 Widen base with 8" of 301 on 4" of 310. Feather 404 and 402 from 0" at Sta. 5+90 to 3" minimum at Sta. 6+15.

STYGLER

Exist. U.S. Route 62

Exist. R/W

16"W Ex. 12" Pipe

4" Gas Main

Ex. 12" Pipe

Fire Hydrant

Begin Par't Sta. 5+90

Blacktop Drive

Gravel Drive

Temp R/W

Septic Tanks

Found Only

Construction Limits

Abandon

Gas Pumps

Gas Station

1-Story Frame Res.

1-Story Stucco Res.

1½ Story Frame Res.

1½ Sty. Fr. Res.

1-Story Frame Res.

Septic Tank

Suspend Work Sta. 9+51.80

BEGIN WORK STA. 5+75

Gas Aggregate Drop Placed Cont. across Par't

P.C. 6+22.8

Sta. 10+00 ℄ Stygler Road
= Sta. 1187+31.90 ℄ USR-62

P.O.T. STA. 10+00.00

P.I. STA. 7+47.26

Cor. of Conc. Slab

Garage Foundation

Conc. Slab

I.P. 3" Deep

P.K. in 8" Wild Cherry

P.K. in 6" Maple

P.K. in 8" Maple

P.K. in P.Pole #28A32

Sta 11+46.54 End Walk

Conc. Curb

Conc. Apron

12" Pipe

Light Pole

Gas Pumps

Storage Tanks

AGLER

END PAVEMENT
END WORK STA. 13+03
Sta 13+10.89 ℄ Stygler Road

Exist. R/W

24'6"

15" Pipe

Sta 10+46.54

Sta 10+55.41

Sta 10+83.41

Sta 11+00

Sta 11+03

Sta 11+08.41

Sta 11+11.41

Sta 11+16.41

Sta 11+19.41

Sta 11+24.41

Sta 11+27.41

Sta 11+32.41

Sta 11+35.41

Sta 11+40.41

Sta 11+43.41

Sta 11+48.41

Sta 11+51.41

Sta 11+56.41

Sta 11+59.41

Sta 11+64.41

Sta 11+67.41

Sta 11+72.41

Sta 11+75.41

Sta 11+80.41

Sta 11+83.41

Sta 11+88.41

Sta 11+91.41

Sta 11+96.41

Sta 11+99.41

Sta 12+04.41

Sta 12+07.41

Sta 12+12.41

Sta 12+15.41

Sta 12+20.41

Sta 12+23.41

Sta 12+28.41

Sta 12+31.41

Sta 12+36.41

Sta 12+39.41

Sta 12+44.41

Sta 12+47.41

Sta 12+52.41

Sta 12+55.41

Sta 12+60.41

Sta 12+63.41

Sta 12+68.41

Sta 12+71.41

Sta 12+76.41

Sta 12+79.41

Sta 12+84.41

Sta 12+87.41

Sta 12+92.41

Sta 12+95.41

Sta 13+00.41

Sta 13+03.41

Sta 13+08.41

Sta 13+11.41

Sta 13+16.41

Sta 13+19.41

Sta 13+24.41

Sta 13+27.41

Sta 13+32.41

Sta 13+35.41

Sta 13+40.41

Sta 13+43.41

Sta 13+48.41

Sta 13+51.41

Sta 13+56.41

Sta 13+59.41

Sta 14+04.41

Sta 14+07.41

Sta 14+12.41

Sta 14+15.41

Sta 14+20.41

Sta 14+23.41

Sta 14+28.41

Sta 14+31.41

Sta 14+36.41

Sta 14+39.41

Sta 14+44.41

Sta 14+47.41

Sta 14+52.41

Sta 14+55.41

Sta 14+60.41

Sta 14+63.41

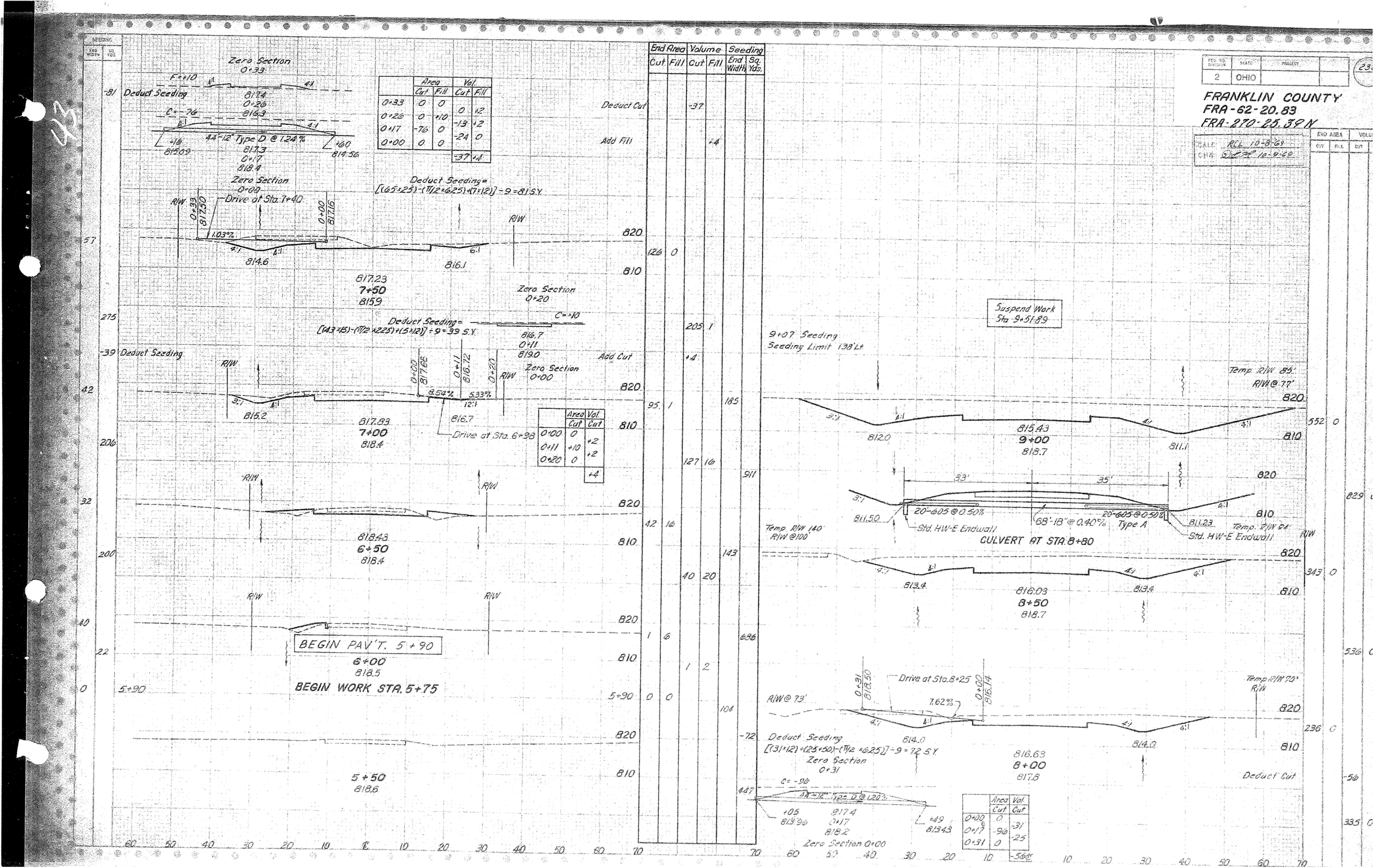
Sta 14+68.41

Sta 14+71.41

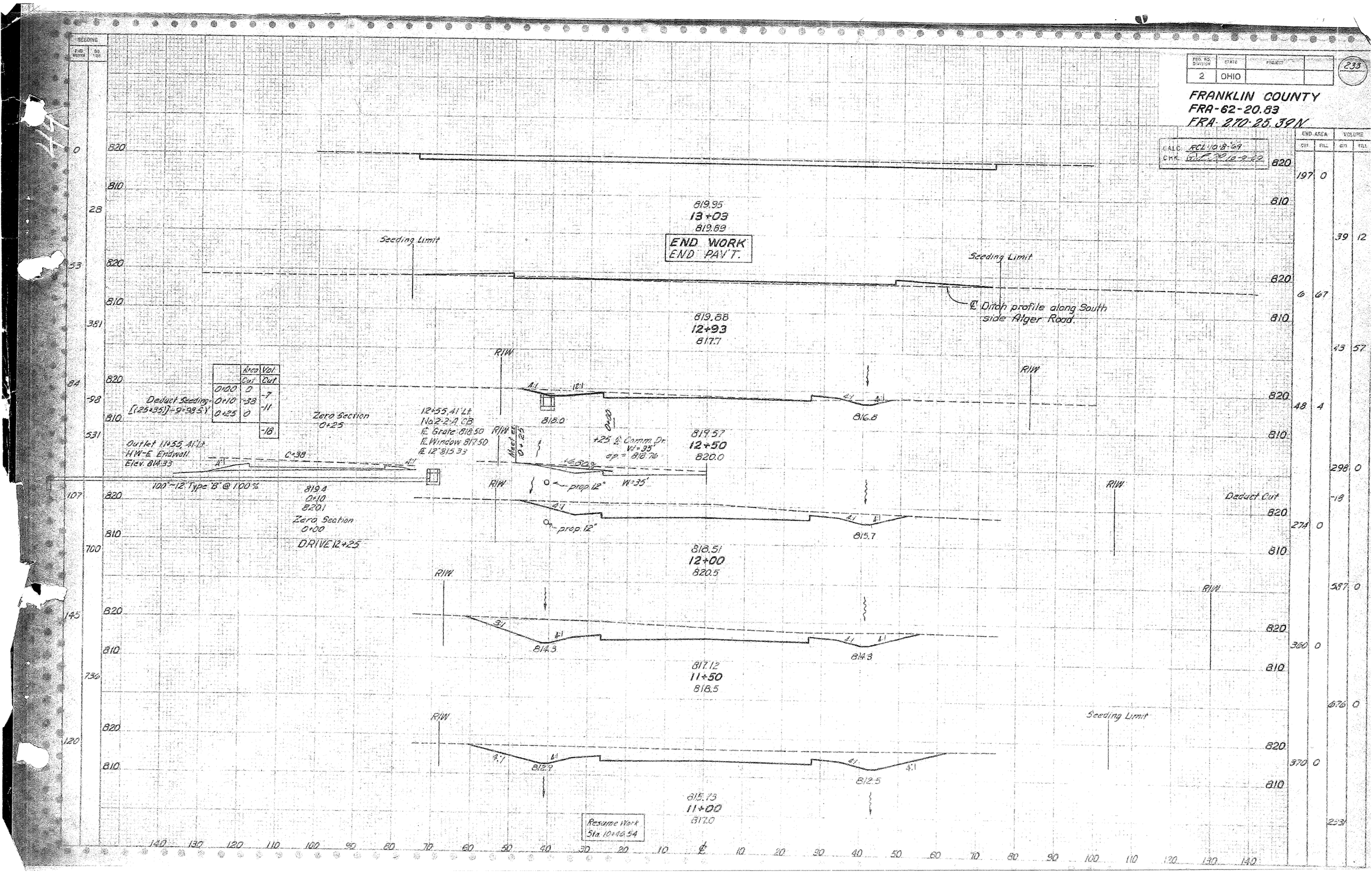
Sta 14+76.41

Sta 14+79.41

Sta



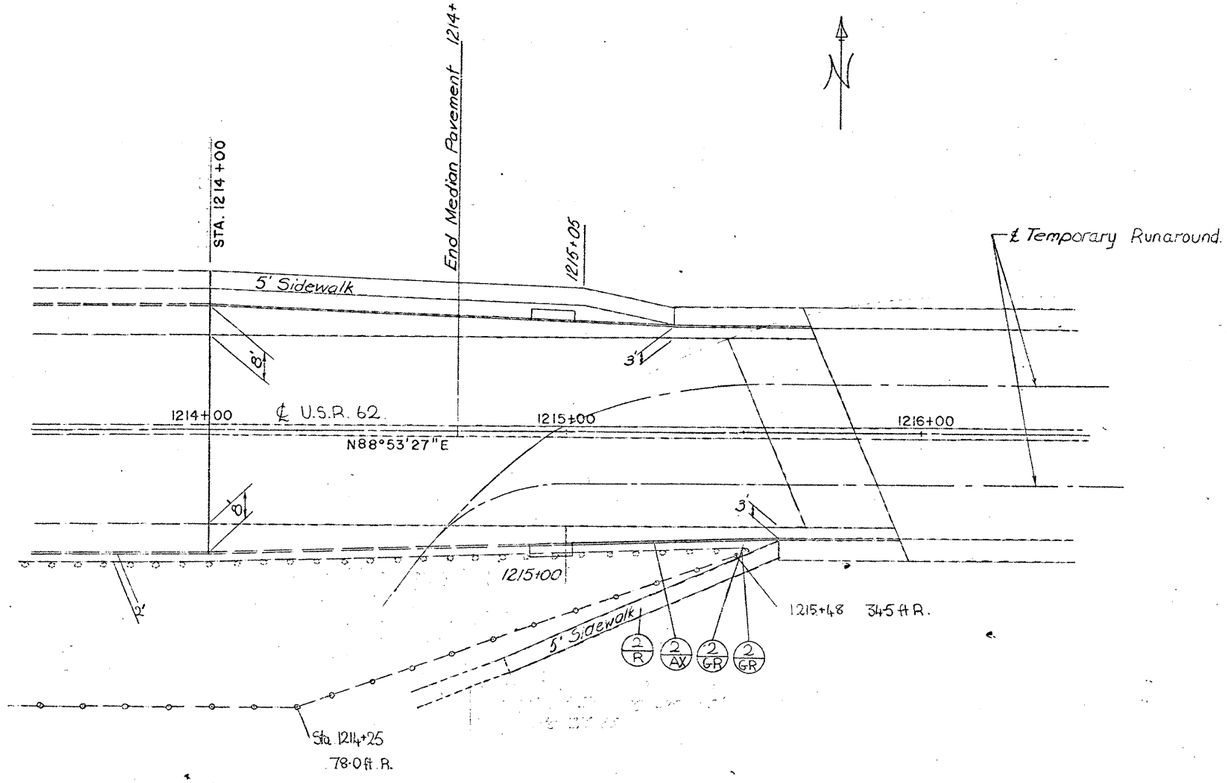
FRANKLIN COUNTY
FRA-62-20.83
FRA-270-25.39N
2
OHIO
CALC. RCL 10-8-69
CHK. 10-9-69
Zero Section 0+33
Deduct Seeding
Zero Section 0+00
Drive at Sta. 7+40
Deduct Seeding = [(65×25)-(π/2×625)+(7×12)] ÷ 9 = 81 S.Y.
Zero Section 0+20
Deduct Seeding = [(43×15)-(π/2×225)+(5×12)] ÷ 9 = 39 S.Y.
Drive at Sta. 6+98
BEGIN PAV'T. 5+90
BEGIN WORK STA. 5+75
Suspend Work Sta. 9+51.89
9+07 Seeding
Seeding Limit 138' Lt.
Temp. R/W 85'
R/W @ 77'
CULVERT AT STA. 8+80
20'-605 @ 0.50%
68'-18" @ 0.40%
Type A
Std. HW-E Endwall
Temp. R/W 140'
R/W @ 100'
Temp. R/W 94'
Drive at Sta. 8+25
R/W @ 73'
Temp. R/W 70'
Deduct Seeding [(31×12)+(25+50)-(π/2×625)] ÷ 9 = 72 S.Y.
Zero Section 0+31
Zero Section 0+00
Deduct Cut
Add Fill
Add Cut

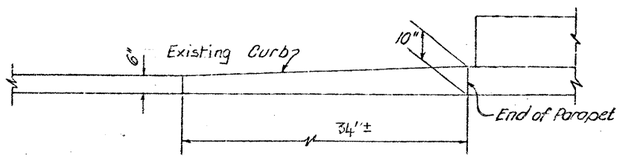


PROJ. NO. DIVISION 2
STATE OHIO
PROJECT
233
FRANKLIN COUNTY
FRA-62-20.83
FRA-270-25.39N
CALC. RCL 10-8-69
CHK. 10-9-69
END AREA
VOLUME
CUT
FILL
819.95
13+03
819.89
END WORK
END PAV'T.
Seeding Limit
Seeding Limit
℄ Ditch profile along South side Alger Road.
819.88
12+93
817.7
R/W
R/W
818.0
816.8
Deduct Seeding [(25+35)]-9=98 S.Y.
Zero Section 0+25
12+55, 41' Lt. No. 2-2-A CB
℄ Grate 818.50
℄ Window 817.50
℄ 12" 815.33
+25 ℄ Comm. Dr. W=35' ep.=818.76
819.57
12+50
820.0
Outlet 11+55, 41' Lt. HW-E Endwall Elev. 814.33
C=38
100'-12" Type "B" @ 1.00%
819.4
0+10
820.1
Zero Section 0+00
DRIVE 12+25
prop. 12"
W=35'
Deduct Cut
815.7
818.51
12+00
820.5
814.3
814.3
817.12
11+50
818.5
Seeding Limit
812.9
812.5
815.73
11+00
817.0
Resume Work Sta. 10+46.54

FED. PJ. DIVISION	STATE			
2.	OHIO			

FRA~270~25.39 N.
FRA~62~20.83
CHANGE ORDER No.





CURB TRANSITION AT STRUCTURE.

~SUMMARY OF ESTIMATED QUANTITIES~

REF	STATION TO STATION	SIDE	609 Curb, Type 6 L.F.	606 Anchor Assembly Each	202 Sidewalk Removal S.F.	606 Bridge Terminal Assemblies Each	
ADDITION ITEMS							
2AX	1215+00 to 1215+60	Rt.	60				
2GR	1215+50	Rt.		1			
NONPERFORMED ITEMS							
2R	1214+90 to 1215+65	Rt			400		
2GR	1215+50	Rt				1	
~TOTALS~							
ADDITIONS			60	1			
DEDUCTIONS					400	1	

Purpose of Change Order :-
To clarify non-removal of existing sidewalk, to change guardrail anchor assembly, & to place additional type 6 curb.

Note :- This change order & reference numbers are in coordination with plan sheet 183

CALC.	SDBoyle 3/10/72
CHK	JAH 3-14-72

DATE ~ 3-10-1972

V.F.W. Post 4719 3.530 Ac.

Sanitary Sewer built across prop. USR 62

Prop. S. Const. Limit

(No Ease)

R Fence

Edge Asphalt Drive

Gas Line - Visible End

Sta. 167+00

Prop. 20' Permanent Easement

Prop. N. Const. Limit

Catch Basins

Guard Rail

Edge Pave.

R/W

L/A/R/W

(No Ease)

(3) 8" (21.4%)

Sewer & Sta. 103+85.5 1.0 270° 42.45' Rt.

Hub

122.13'

100'

1.23 Ac.

86.30'

22.46'

Fence

Sta. 173+00

Prop. W. Const. Limit

Prop. 20' Permanent Ease.

Sta. 174+00

Prop. U.S. Route 62

State of Ohio 1.47 Ac.

Ex. U.S. Route 62

Limited Access R/W

Sta. 171+08.99 in 122.08.99 out 0°5'34.30" Rt.

Executive Lodge Inc. 1.152 Ac.

Westergaard Park Addition Lot 1 P.B. 22 Pg. 5

House

Two 24"

Three 15"

Mary C. Boss 4.660 Ac (Residue)

Prop. E. Const. Limit

Sta. 177+00

The Contractor shall ... concrete slab in bott... liner to a level that ... sewer is installed ... er, it shall be at tru... and grade.

ELEV.

Top of Bank

E.P. 101+

E.P. 98+

approx loc. exist. 8" Waterline - elevation unknown

Construct in Tunnel under Item 908 See Detail this Sh.

701+

℄ Route 62

Elev. 107.7±

(3)

B.M.#1
Top S.W. Bolt on S. guard rail post opposite E. end of center conc. divider on U.S. 62 Bridge elev. 114.51

Compacted Backfill Sect. 203.12

84" @ 0.10%

Use Conc. Pipe A.S.T.M. C-76 Cl. III with Type II Bedding

160'

Use Conc. Pipe

171'

103.49 in 2105.13 out

A.S.T.M. C-76 Cl. IV Type II Bedding

±701' N.M. Inv. 97.76

103.88 P.I.

ATION	167	168	169	170	171	173	174	175	176
RFACE	109.4	109.5	112.5	113.1	113.0	104.5	107.0	107.3	107.6
ERT	87.09	87.19	87.29	87.39	87.49	87.59	87.69	87.79	87.89
T	22.3	22.3	25.3	25.7	25.5	16.9	19.3	19.5	19.7

C.R.
C.R.
J.A.H.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF SEWERAGE AND DRAINAGE

APPROVED: Chris Kramb Jr. PRINCIPAL CIVIL ENGINEER, DESIGN.

7-27-70 DATE — Carl W. Schoone CHIEF SEWERAGE ENGINEER

DIRECTOR OF DEVELOPMENT

DIRECTOR OF PUBLIC SERVICE

PLAN AND PROFILE

HOCKADEN-LIPES-ROUSCULP, INC. CONSULTING ENG

BY William A. Merchant REGISTERED ENGINEER

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

170A

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
CHANGE ORDER NO.

1/6

FRA-270-25.39N FRA-62-20.83

CHANGE ORDER NO.

WORK REQUIRED

Construct intersection north from U.S.R.-62 into Ridenour Road.

Construct full depth pavement from north edge of pavement of FRA. 62 to STA. 0 + 48.83 west side; and to STA. 0 + 86.21 on east side of Ridenour Road. provide guard rail, curb, and sidewalk, etc. as detailed.

PURPOSE

The purpose of this change order is to provide a connection from U.S.R.-62 north to Ridenour Road.

Summary of quantities on sheet 4

DATE: 1 - 11 - 1973

Completed 1-11-1973

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

170B

2/6

FRANKLIN COUNTY
FRA.~270~25.39 N
FRA.~62 ~20.83
Change Order NO.
Date :

LEGEND
Full Depth Construction
Item 612 Conc. Median
Item 608 Conc. Side walk
Feathering

Curve Data
Δ = 93° 41' 16"
R = 50'
L = 81.76
T = 53.33
E = 23.10

Curve Data
Δ=85°48'39"
R=5.00' L=7.49'49
T=4.65' E=1.89'

Note
The Contractor Will Use Extreme Caution In Excation Of Subgrade In The Vicinity Of Ohio Bell Telephone Manhole, And Also During The Placement Of The Guardrail Posts. The Contractor Shall Notify The Ohio Bell Telephone Co. 2 Days In Advance Of Work In This Area At The Following Repair Dept.
Ohio Bell Telephone Company,
1423 Stelzer Rd.
Columbus, Ohio
Phone 463-7102

Revised 2-28-1973
Completed. 1-11-1973

INTERSECTION FRA.~62 STA. 1205+95.70 And RIDENOUR ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

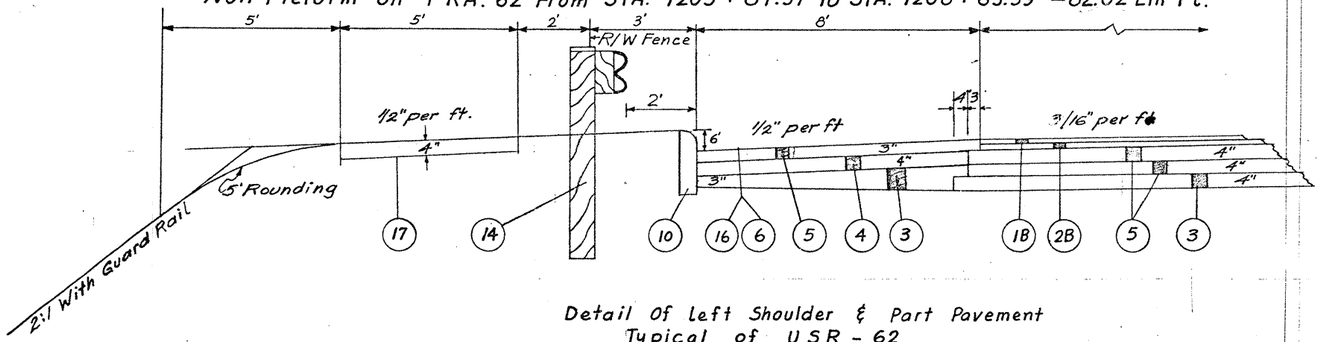
170C

3/6

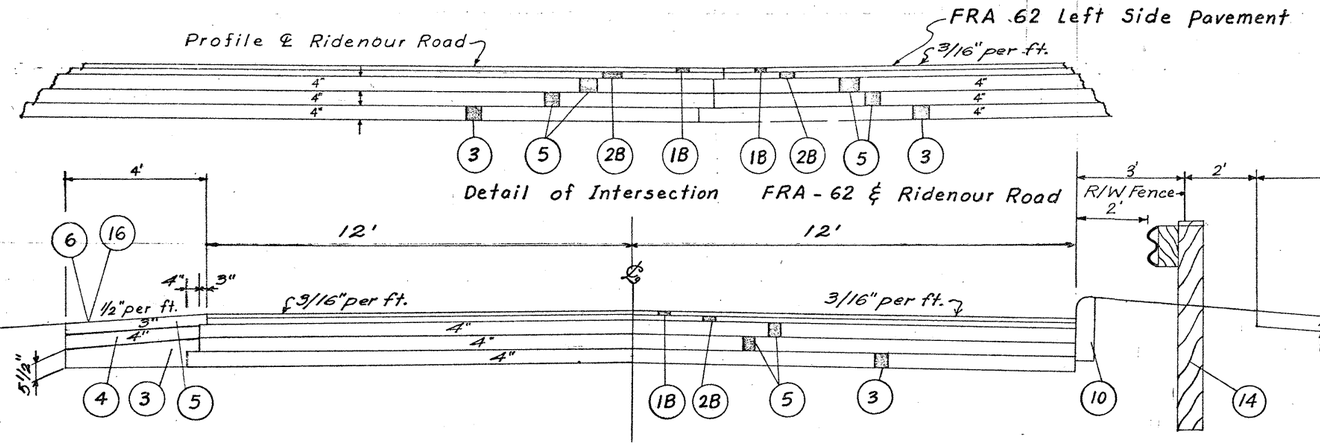
FRANKLIN COUNTY
FRA.-270-25.39 N
FRA-62-20.83
Change Order NO.
Date :

TYPICAL SECTIONS

Non Preform on FRA. 62 From STA. 1205 + 81.37 To STA. 1206 + 63.39 = 82.02 Lin Ft.



Detail Of left Shoulder & Part Pavement
Typical of USR - 62



TYPICAL SECTION RIDENOUR ROAD

(1B) Item 404 1 1/4" Asphalt Concrete (70-85)

(2B) Item 402 1 3/4" Asphalt Concrete (70-85)

(3) Item 310 Subbase

(4) Item 304 Aggreggte Base

(5) Item 301 Bituminous Aggregate Base 702.01 (85-100)
or 702.09 Rt.~11~12 (Thickness as shown, See Note in Proposal)

(6) Item 409 Seal Coat Cover Aggregate No.8 Rt. 0.008 cy/sy

(16) Item 409 Seal Coat Bituminous Material 702.09 Rt-9 or Rt.10
702.02 MC-800 or MC-3000 at 0.30 Gal. / s.y.

(9) Item 659 Seeding & Mulching (As per plan)

(10) Item 609 Curb, Type 6.

(14) Item 606 Guard Rail, Type 5

(17) Item 608 Concrete Walk

Completed. 1-11-1973

Typical Section of Intersection Ridenour Rd & USR-62

CALCULATION ~ CHANGE ORDER NO.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

170D

4/6

FRANKLIN COUNTY
FRA-270-25,39 N.
FRA-62 ~ 20,83

Non Perform

STA. 1205+81.37 To STA. 1206+63.39 = 82.02 Lin.Ft.

301 Bituminous Aggregate Base
3" · 8' · 82.02 ÷ 324 = 6.08 Cu.Yd

304 Aggregate Base
4" · 8.00' · 82.02 ÷ 324 = 8.10
4" · 0.25' · 82.02 ÷ 324 = − 0.25
7.85 → 7.85 Cu.Yd.

310 Subbase
(3'+8") · 8' · 82.02' ÷ (324 · 2) = 11.14
(3'+7") · 4" · 82.02' ÷ (324 · 12) = − 0.84
10.30 → 10.30 Cu.Yd.

409 Seal Coat Cover Aggregate Nº 8
0.008 Cy/Sy 8' · 82.02' ÷ 9 Sy/Sy = 0.58 Cu.Yd.

409 Seal Coat Bituminous Material
0.30 Gal · 8' · 82.02' ÷ 9 = 21.87 Gal.

606 Guard Rail Type 4
STA. 1206+00 Lt. = 62.50 Lin.Ft.

606 Guard Rail Type 5
STA. 1205+62.50 To STA. 1210+00 Lt. 437.50
STA. 1206+ 63.39 To STA. 1210+00 Lt. 336.61
STA. 1205+62.50 To STA. 1206+63.39 = 100.89 Lin.Ft.

608 4" Concrete Walke 5' Wide
STA. 1205+87 To STA. 1210+00 Lt. = 2070 S.F.
STA. 1206+63.39 To STA. 1210+00 Lt. = 1683.05
STA. 1205+87 To STA. 1206+63.39 Lt. = 386.95 Sq.Ft.

609 Concrete Curb Standard Type 6
STA. 1205+75 To STA. 1214+25 Lt. 850.- L.F.
STA. 1206+63.39 To STA. 1214+25 Lt. 761.61 L.F.
STA. 1205+75 To STA. 1206+63.39 = 88.39 Lin.Ft.

202 Exist. Pav't. Remove & Disposed Of
STA. 1206+00 Lt. = 88.~ Sq.Yd.

607 Fence Type CL
STA. 1205+80 Lt. 52' to STA. 1206+32 Lt. 43' ~ 52.77 Lin.Ft.
STA. 1206+32 Lt. 43' to STA. 1206+55.38 Lt. 42.70 ~ 23.38 "
Total Lenght 76.15 Lin.Ft.

Proposed Pavement.

Area: 53,33' · 50' = 2666.50 Sq.Ft.
37,38' · 12. = 448.56 "
16.74 · 24' = 401.76 "
4.65 · 5 = 23.25 "
Total = 3540.07 Sq.Ft.

404 Aspholt Concrete (70 ~ 85)
Total Area = 3540.07 Sq.Ft.
- 50² Ft (93°41'16") ÷ 360 = - 2043.95 "
- 5² Ft (85°48'39") ÷ 360 = - 18.72 "
Net Area = 1477.40 Sq.Ft.

1¼" · 1477.40° ÷ 324 = + 5.70 Cu.Yd.
1¼" · 100.63² ÷ 324 = + 0.39 "
Feathering = 1" · 12 · 13.79 ÷ 324 = 0.51
6.60 Cu.Yd. → 6.60 Cu.Yd.

402 Asphalt Concrete (70 ~ 85)
1¾" · 1477.40° ÷ 324 = 7.98 Cu.Yd.
1¾" · 100.63² ÷ 324 = 0.54 "
8.52 Cu.Yd. → 8.52 Cu.Yd.

301 Bituminous Aggregate Base.
Total Area: 3540.07 Sq.Ft.
- 49.75² Ft (93°41'16" ÷ 360 = - 2023.56 "
- 4.75² Ft (85°48'39") ÷ 360 = - 16.90 "
1499.61 Sq.Ft.
+ 8" · 1499.61° ÷ 324 = + 37.03 Cu.Yd.
+ 8" 0.25 · 12,97 ÷ 324 = + 0.08 "
- 8" 0.25 · 82.02 ÷ 324 = - 0.51 "
36.60 Cu.Yd. → 36.60 Cu.Yd.

310 Subbase
Total Area 3540.07 Sq.Ft.
- (49'-5")² Ft (93°41'16") ÷ 360° = - 1996.54 "
- (49'-5")² Ft (85°48'39") ÷ 360° = - 14.61 "
1528.92 Sq.Ft.
4" · 1528.96² ÷ 324 = + 18.88 Cu.Yd.
4" · 7" · 12.97 ÷ (324 · 12) = + 0.09 "
-4" · 7" 82.02 ÷ (324 · 12) = - 0.59 "
18.38 Cu.Yd. → 18.38 Cu.Yd.

203 Subgrad Compaction
1477.40² +9 = 164.16 Sq.Yd.

Right Shoulder

2 · 50 · Ft · (34°24'36") ÷ 360° = 30.03 Lin.Ft.
2 · 42' · Ft · (25°21'16") ÷ 360° = 18.14 "
STA. 1206+55.38 - STA. 1206+63.39 = 8.01 "
56.18 Lin.Ft.

409 Seal Coat Cover Aggregate Nº 8
0.008 (4'+8') · 56.18 ÷ (9 · 2.2) = 0.15 Cu.Yd.

409 Seal Coat Bituminous Material.
0.30 · (4'+8') · (56.18') ÷ (9 · 2.2) = 5.62 Gall.

301 Bituminous Aggregate Base
3" · (4'+8') · 56.18' ÷ (324 · 2 · 2) = 1.56 Cu.Yd.

304 Aggregate Base:
Inside Radii Length: 18.14+8.01 = 26.15 Lin.Ft.
2 · 49.75' · Ft · (34°24'36") ÷ 360° = 29.88 "
56.03 Lin.Ft.
[4" (3.75+7.75) · 56.03'] ÷ (324 · 2 · 2) = 1.99 Cu.Yd.

310 Subbase
Inside Radii Lenght 26.15 Lin.Ft.
2 · 49.58 · Ft · (34°24'36") ÷ 360° 29.68 "
55.83 Lin.Ft.
12 · 8 / 96" = 12.4 / 48' (5" · 4' ÷ 8') + 3 = 2.5 + 3 = 5.50"
-5" / 91" = 5" / 43" 8" 91" ÷ 96 = 7.58"
7.58" + 7.58" + 5.5 + 3" : 91" + 43" : 55.83' ÷ 27 Cy/Sy = 2.85 Cu.Yd.
2 · 12" · 2 2 · 12" 2

606 Guard Rail Type 5
2 · 40 · Ft · (93°41'16") ÷ 360° = 65.41 Lin.Ft.
8.01 + 2.97 = 10.98 "
76.39 Lin.Ft. → 76.39 Lin.Ft.

608 4" Concrete Walk 5' Wide.
5' [2 · 34.5 Ft (93°41'16") ÷ 360° + 8.01] = 322.10 Sq.Ft.

609 Curb, Type 6
2 · 42' · Ft (93°41'16") ÷ 360° + 8.01 = 76.69 Lin.Ft.

607 Fence Type CL
2.39 Ft (93°41'16") ÷ 360° + 0.38' = 63.77 + 0.38
STA. 1206+55.38 Lt. 42.70 to STA 0+86.07 Rt. 15 = 64.15 Lin.Ft.

Left Shoulder

2 · 5' · Ft · (85°48'39") ÷ 360° = +7.49 Lin.Ft.
2 · 1' · Ft · (85°48'39") ÷ 360° = +1.50 " "
8.99 Lin.Ft.
STA. 0+48.83 12.97
STA. 0+35.86 + 4.49
12.97 17.46

409 Seal Coat Cover Aggregate Nº 8
0.008 Cy/Sy · 4' · 17.46 ÷ 9 Sf/Sy. = 0.06 Cu.Yd.

409 Seal Coat Bituminous Material.
0.30 Gal/Sq.Yd · 4' · 17.46 ÷ 9 Sf/Sy. = 2.33 Gall.

301 Bituminous Aggregate Base
3" · 4' · 17.46' ÷ 324 = 0.65 Cu.Yd.

304 Aggregate Base
2 · 4.75 · Ft (85°48'39") ÷ 360° = 7.11 Lin.Ft.
2 · 1.- · Ft (85°48'39") ÷ 360° = 1.50 " "
8.61 Lin.Ft.
12.97 Lin.Ft. 4.305 Lin.Ft.
4.305 " "
17.275 Lin.Ft.
4" · 3.75' · 17.275' ÷ 324 = 0.80 Cu.Yd.

310 Subbase
8" · 7.49' ÷ 12 = 4.99 Sq.Ft.
5.5" · 1.50' ÷ 12 = 0.69 " "
5.68 Sq.Ft.
2 · (4'-5") · Ft (85°48'39") ÷ 360° = 6.61 Lin.Ft.
7.49 Lin.Ft. 7.49 Lin.Ft.
6.61 " " 7.11 " "
14.10 Lin.Ft. 14.60 Lin.Ft.
+ 4' · 5.68 Sq.Ft ÷ 54 = + 0.42 Cu.Yd.
-4" · 3" · 14.60' ÷ 7776 = - 0.02 " "
-4" · 7" · 14.10 ÷ 7776 = - 0.05 " "
(8" + 55") · 4' · 12.97 ÷ 648 = + 1.08 " "
-3" · 4" · 12.97 ÷ 3888 = - 0.04 " "
7" · 4" · 12.97 ÷ 3888 = - 0.09 " "
1.30 Cu.Yd.

SUMMARY OF QUANTITIES

Item	Non Perform	Proposed Change Order Quantities: Pavement	Lt. Shoulder	RT. Shoulder	Deduct	Addition	Unit.	DESCRIPTION.	Ref. No.	
202	88				88		Sq.Yd.	Existing Pavement Removed And Disposed Of.	1R	See Sheet No. 182
203		89				89	Cu.Yd.	Excavation Not Including Embankment. Construction, As Per Plan.		See Sheet No. 170 E
203		7				7	Cu.Yd.	Embankment		See Sheet No. 170 E
203		164.16				164.16	Sq.Yd.	Subgrade Compaction.		See Calculation Sheet 170 D
301	6.08	36.60	0.65	1.56		32.73	Cu.Yd.	Bituminous Aggregate Base 702.01(85-100) or 702.09 RT-11 or RT.-12		See Calculation Sheet 170 D
304	7.85		0.80	1.99	5.06		Cu.Yd.	Aggregate Base		" "
310	10.30	18.38	1.30	2.85		12.23	Cu.Yd.	Subbase		" "
402		8.52				8.52	Cu.Yd.	Asphalt Concrete (70~85)		See Calculation Sheet 170 D
404		6.60				6.60	Cu.Yd.	Asphalt Concrete (70~85)		" "
409	0.58		0.06	0.15	0.37		Cu.Yd.	Seal Coat Cover Aggregate No.8		" "
409	21.87		2.33	5.62	13.92		Gal.	Seal Coat Bituminous Material, As Per Plan		" "
606	62.50				62.50		Lin.Ft.	Guard Rail Type 4	1GR.	See Sheet No 182
606	100.89			76.39	24.50		Lin.Ft.	Guard Rail Type 5	2GR.	See Sheet No 182
608	386.95			322.10	64.85		Sq.Ft.	4" Concrete Walk.	1-A.	See Sheet No 182
609	88.39			76.69	11.70		Lin.Ft.	Concrete Curb Standard Type 6	1-C.	See Sheet No 34 & 170
607	76.15			64.15	12.00		Lin.Ft.	Fence Type CL		See Sheet No 90/91 R/W.

CALC: O.O.R. 1-11-1973
CHK: M.J. 1-11-73

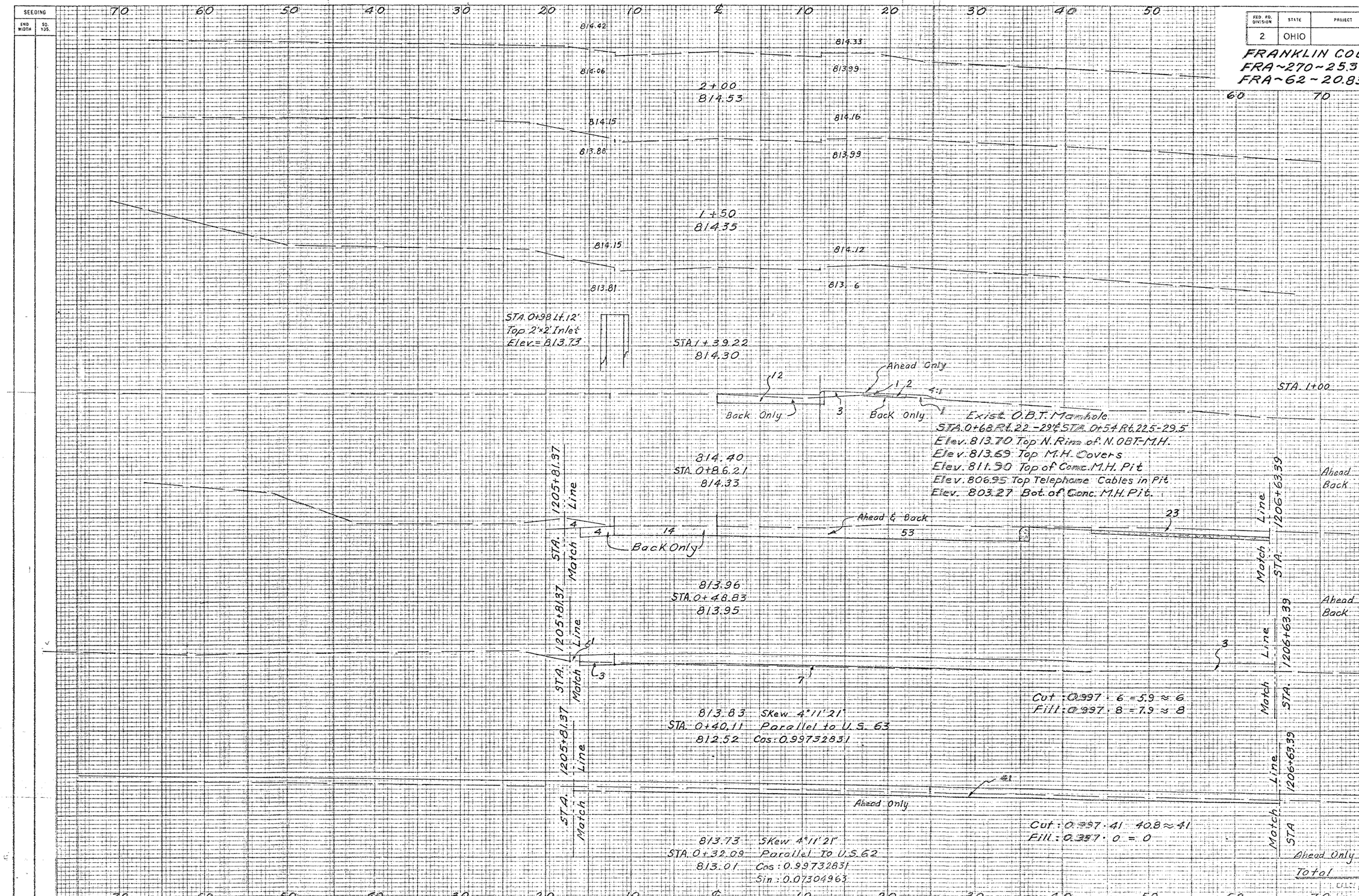
Calculation And Summary Completed. 1-1-1973.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

170E

FRANKLIN COUNTY
FRA~270~25.39
FRA~62~20.83

5/6



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
STA. 1+00	0	0		
			1	2
Ahead	0	6		
Back	13	4		
			64	3
Ahead	80	0		
Back	98	0		
			17	1
	6	8		
			7	1
Ahead Only	41	0		
Total			89	7

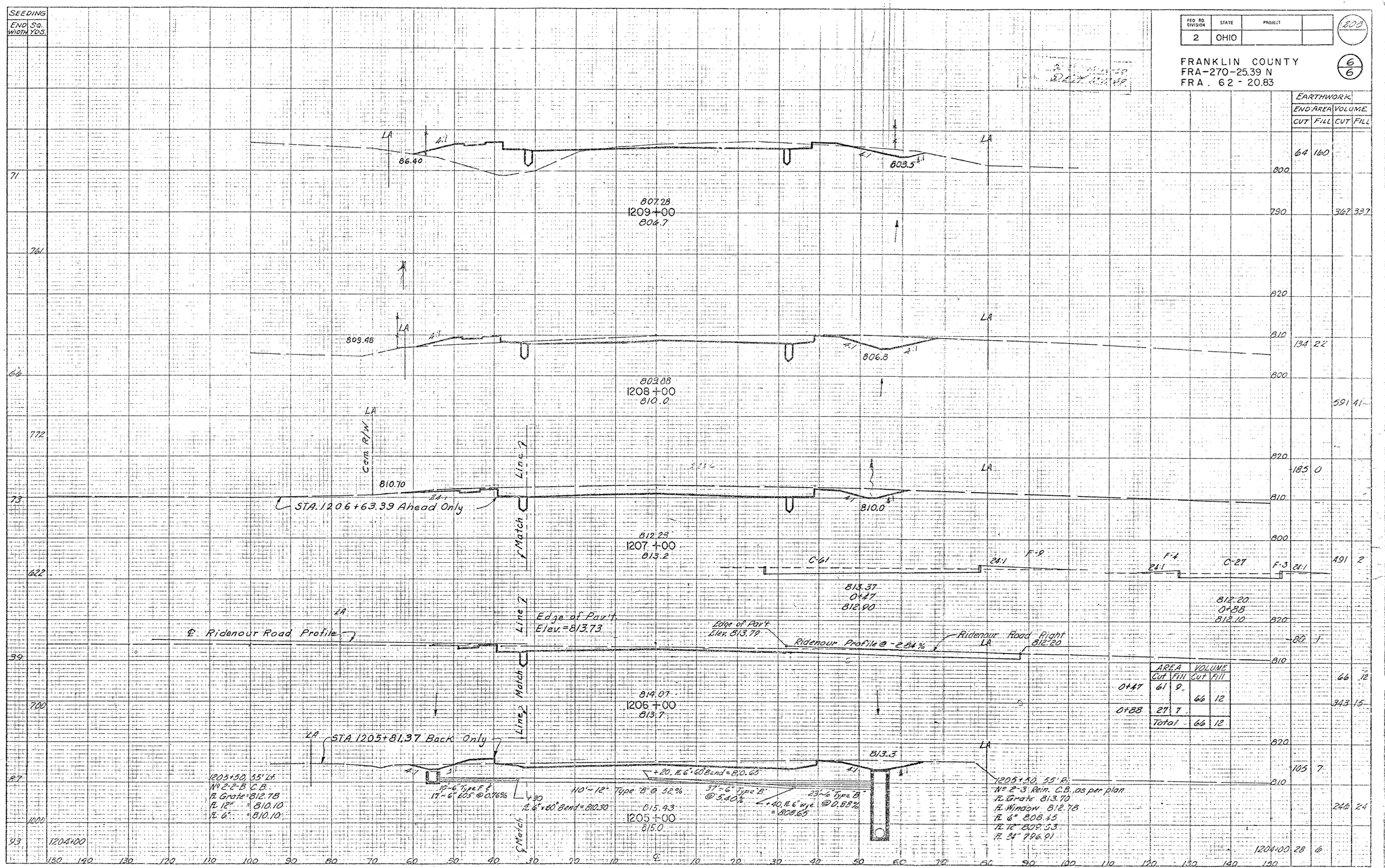
CALC. A.A.R. 1-11-1973
CHK. M.J.F. 1-11-73

Ridenour Road Cross Section STA. 0+32.09 To STA. 2+00

Completed 1-11-1973

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

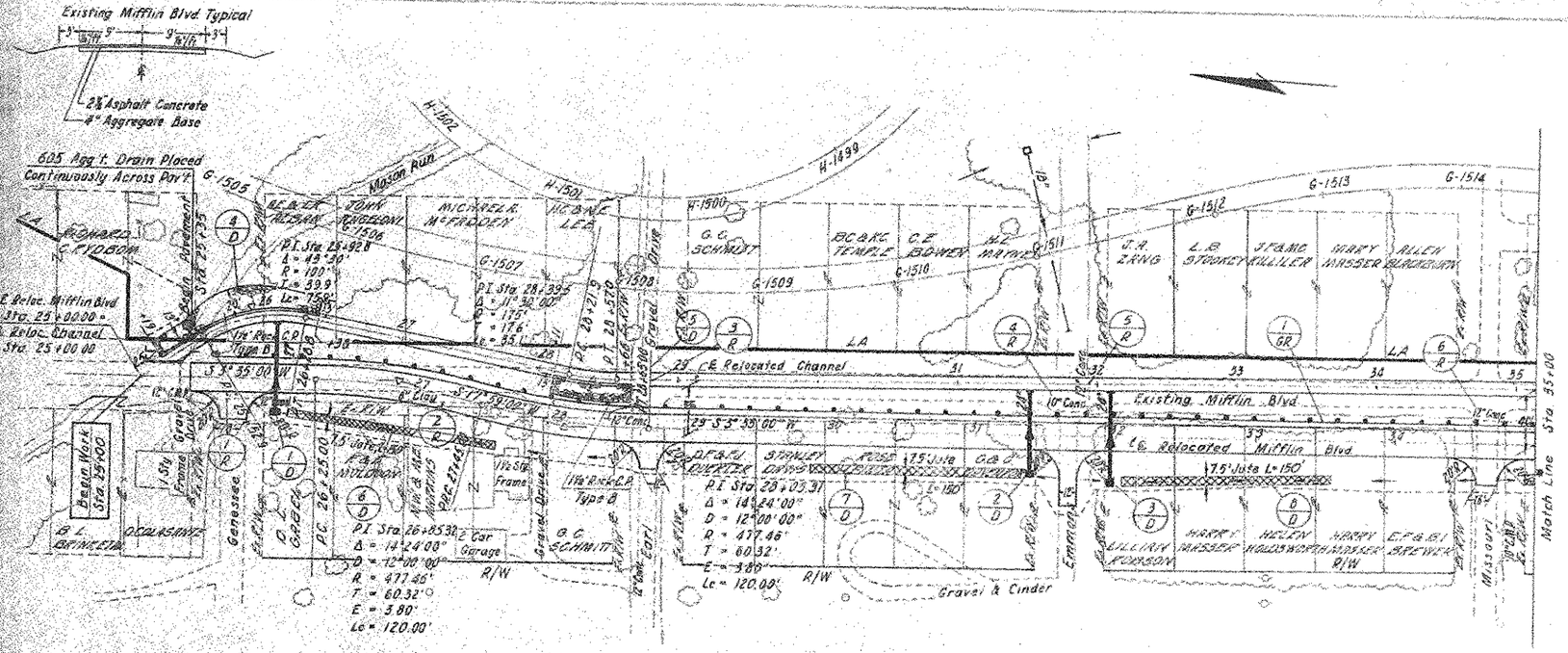
FRANKLIN COUNTY
FRA-270-25.39 N
FRA. 62 - 20.83



	AREA Cut	AREA Fill	VOLUME Cut	VOLUME Fill
0+47	61	9		
			66	12
0+88	27	7		
Total			66	12

Completed 1-11-1973.

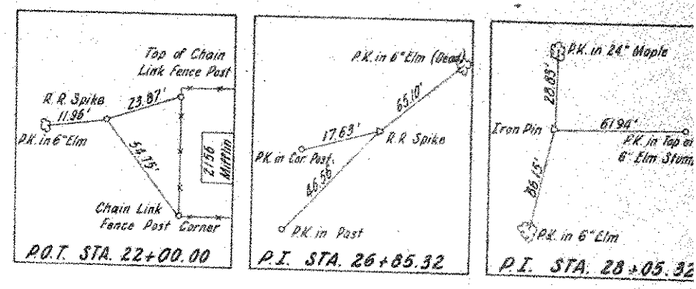
CROSS SECTIONS



(4/D) [(13+20) x 95 ÷ 2 + 13 x 30] x 2.0 ÷ 27 = 145.0 C.Y.

(5/D) 13 x 55 x 2.0 ÷ 27 = 53.0 C.Y.

FRANKLIN COUNTY
FRA-270-25.99
FRA-62-20.83



CHK: SAS 10-69 WLP 11-69

NOTES:
1. For Ramp H Plan & Profile See Sheet Nos. 98 & 102
2. For Ramp G Plan & Profile See Sheet Nos. 96 & 101
3. For Relocated Channel Profile See Sheet Nos. 249 & 250

* Quantity carried to next sheet

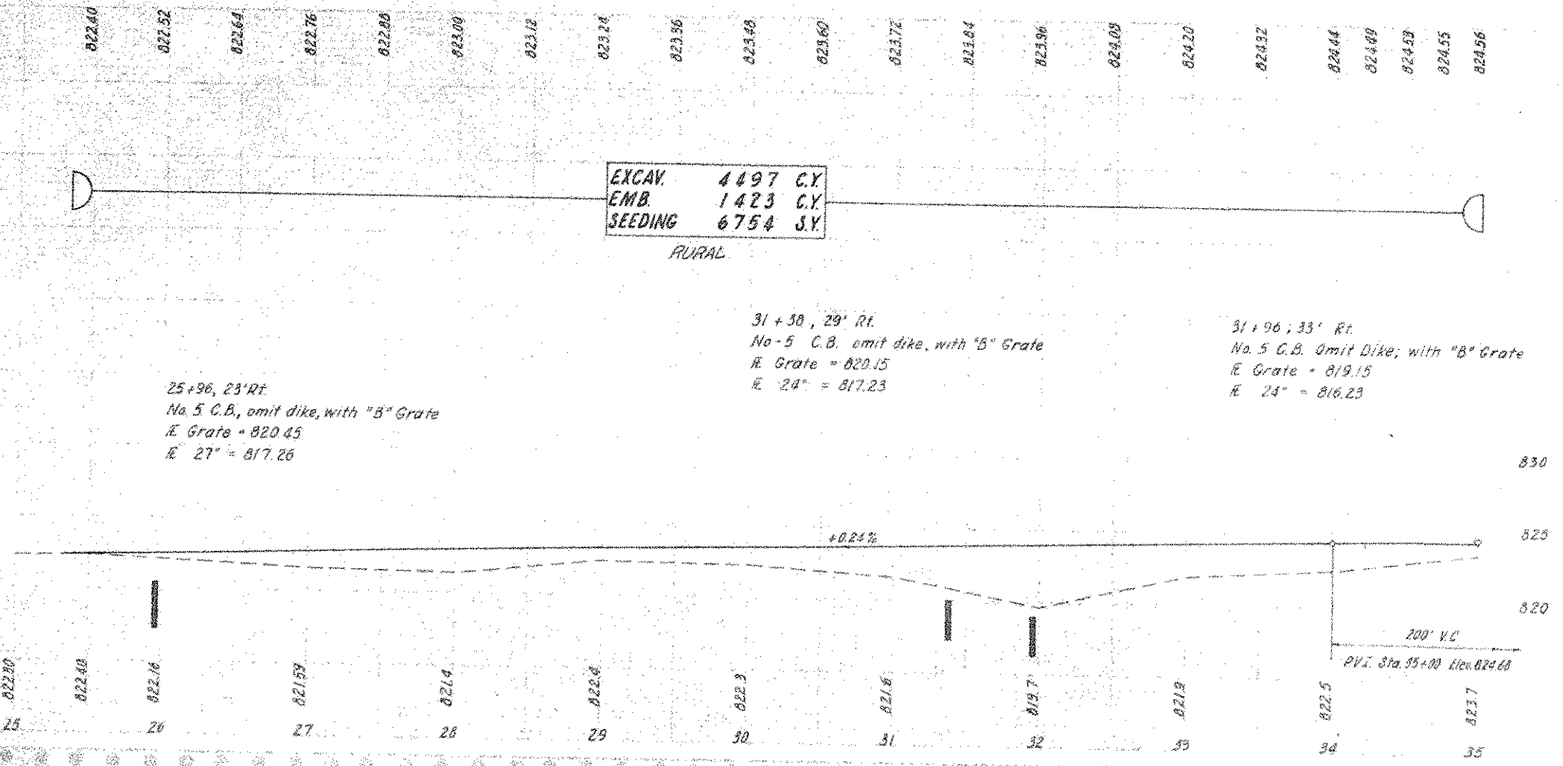
EXCAV.	4497	C.Y.
EMB.	1423	C.Y.
SEEDING	6754	S.Y.

RURAL

25+96, 23' Rt.
No. 5 C.B., omit dike, with "B" Grate
E. Grate = 820.45
E. 27" = 817.26

31+38, 29' Rt.
No-5 C.B. omit dike, with "B" Grate
E. Grate = 820.15
E. 24" = 817.23

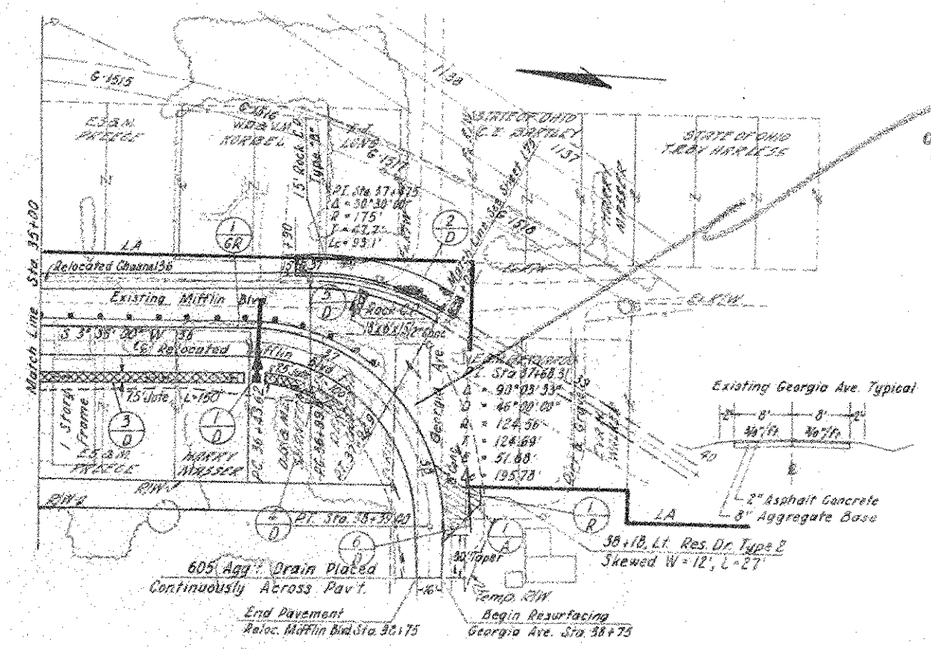
31+96; 33' Rt.
No. 5 C.B. Omit Dike; with "B" Grate
E. Grate = 819.15
E. 24" = 816.23

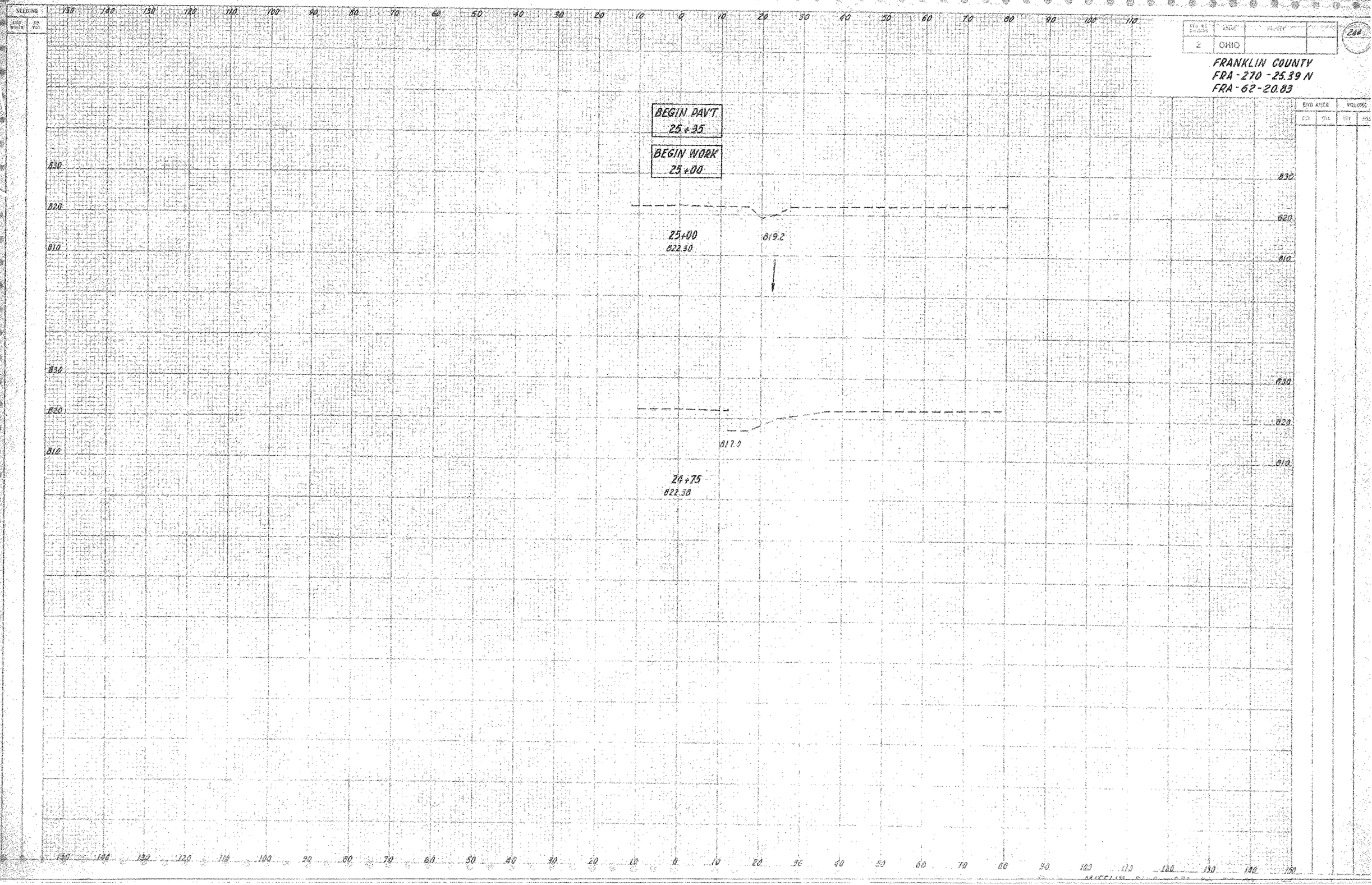


* With "B" Grate

* 706.02 a. III, 706.08 ES or 707.13

REF	STATION TO STATION	SIDE	202 Pipe Removal 24" & Under	601 Rock C.P. Type "B"	602 Concrete Masonry	603 27" Type 5	603 24" Type 5	604 No. 5 C.B.	606 Guard Rail Type 5	606 Anchor Ass'y.	667 Jute Matting
			L.F.	C.Y.	C.Y.	L.F.	L.F.	Ea.	L.F.	Ea.	S.Y.
1-D	25+96	Rt-Lt			0.5	64					
2-D	31+38	Rt-Lt			0.5		60	1			
3-D	31+96	Rt-Lt			0.5		66	1			
4-D	25+80 to 26+30	Lt		145							
5-D	27+90 to 28+50	Lt		53							
6-D	26+05 to 27+55	Rt									
7-D	29+81 to 31+31	Rt									125
8-D	32+03 to 33+53	Rt									125
1-R	25+52 to 25+86	Rt	34								125
2-R	26+94 to 27+96	Lt-Rt	104								
3-R	28+51 to 28+54	Lt	32								
4-R	31+60 to 31+80	Lt	20								
5-R	31+81	Lt	30								
6-R	34+58 to 34+78	Lt	20								
1-GR	25+50 to 35+00	Lt							950	1	
TOTALS RURAL			240	193	1.5	64	126	3	950	1	375


Match Line Sta. 35+00
Relocated Channel 36
Existing Mifflin Blvd.
S 3° 38' 30" W 38
℄ Relocated
75' Inlet L=150'
Rock ℄
Rock Cut
Sta. 37+68.31
Δ = 90°03'33"
D = 46°00'00"
R = 124.56'
T = 124.69'
L = 51.88'
Lc = 195.78'
Existing Georgia Ave. Typical
8'
8'
4% 4%
2" Asphalt Concrete
8" Aggregate Base
605 Agg. Drain Placed Continuously Across Pavt.
End Pavement Reloc. Mifflin Blvd Sta. 36+75
Begin Resurfacing Georgia Ave. Sta. 38+75
38+18, Lt. Res. Dr. Type 2 Skewed W=12', L=27'
30' Taper
Temp. Pvt.
P.I. Sta. 37+39.40
Δ = 30°30'00"
R = 175'
T = 47.7'
Lc = 93.1'
Match Line Sta. 37+00
Sta. 37+68.31
Sta. 38+39.40
Relocated Mifflin Blvd.
Existing Georgia Ave.
Sta. 36+53.62
P.C. Sta. 36+43.62
P.I. Sta. 37+39.40
P.C. Sta. 38+39.40
R.R. Spike
Iron Pin
P.K. in 4" Elm
20.25'
32.46'
P.K. in ℄ Exist. Mifflin Blvd.
38.79'
P.K. in 4" Elm
P.K. in P Pole #35B40 N.W. Cor. Georgia & Mifflin
20.19'
32.46'
P.K. in Intersection Georgia & Mifflin
40.87'
P.K. in Post on S.W. Cor. Georgia & Mifflin
P.K. in P Pole #35B47 N. Side Georgia
20.05'
R.R. Spike
18.44'
44.06'
P.K. in Fence Cor. Post
P.K. in 12" Maple
STATE OF OHIO TROY MARKER
U.S. ROUTE OHIO S.C.E. BARTLEY
Sheet 175
Sheet 176
Sheet 177
Sheet 178
Sheet 179
Sheet 180
Sheet 181
Sheet 182
Sheet 183
Sheet 184
Sheet 185
Sheet 186
Sheet 187
Sheet 188
Sheet 189
Sheet 190
Sheet 191
Sheet 192
Sheet 193
Sheet 194
Sheet

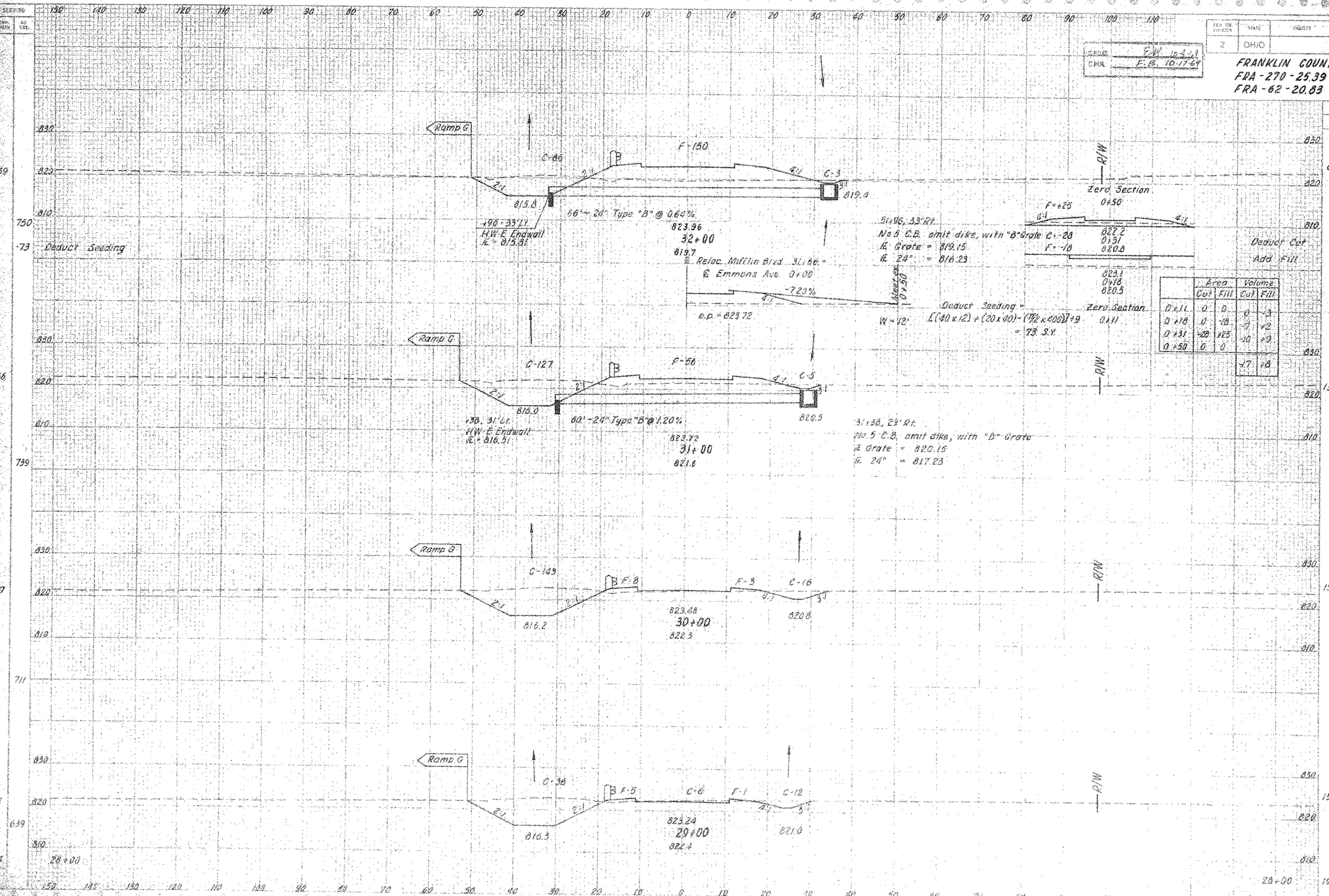


2
OHIO
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
BEGIN PAVT.
25+35
BEGIN WORK
25+00
25+00
822.30
819.2
817.0
24+75
822.38
830
820
810

SHEET NO.	TOTAL SHEETS
2	OHIO

DRAWN F.W. 10-4-71
CHKD. F.B. 10-17-69

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83



	Area		Volume	
	Cut	Fill	Cut	Fill
0+11	0	0	0	-3
0+18	0	-18	-7	+2
0+31	-28	+25	-10	-9
0+50	0	0		
			-17	-8

END AREA		VOLUME	
CUT	FILL	CUT	FILL
69		150	
66		132	56
67		159	11
61		154	6
54		107	27

STATE	PROJECT
OHIO	

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

CHKD: EJ 10-17-68
CHK: EJ 10-17-68

C-216 — F-9 — C-1 — F-8 — C-10
54'-18" Type "B" @ 1.66⅔
815.0 +50, 29' Lt. HW-E Endwall E = 810.26
822.0
824.44 36+00 823.5
36+50, 25' Rt. No. 5 C.B. omit dike with "B" Grate E Grate = 821.55 E 18" = 819.17

C-192 — F-11 — C-1 — F-2 — C-14
815.2
824.56 35+00 823.7
822.2
Zero Section 0+30
F = +1
C = -22 823.6 0+25 823.2
F = -10
B24.0 0+18 823.1
Zero Section 0+11

℄ Reloc Mifflin Blvd 34+66 = ℄ Missouri Ave. 0+00
D/D - Missouri Ave. 34+66
-5.08%
Meet ex. 0+50
o.p. = 824.38
W = 14'
Deduct Seeding = [(20x54)-(½x400)]÷9 = 51 S.Y.

Ramp G — C-160 — F-15 — C-7
815.4
824.44 34+00 822.5
821.6

Ramp G — C-125 — F-10 — C-5
815.6
822.20 33+00 821.9
821.0

R/W

	Area Cut	Area Fill	Volume Cut	Volume Fill
0+11	0	0	0	-2
0+18	-0	-10	-3	-4
0+25	-22	+1	-2	+1
0+30	0	0		
			-5	-5

	END AREA Cut	END AREA Fill	VOLUME Cut	VOLUME Fill
	227	13		
			804	48
	207	13		
			693	126
	167	55		
			550	232
	150	70		
			400	107
	86	150		

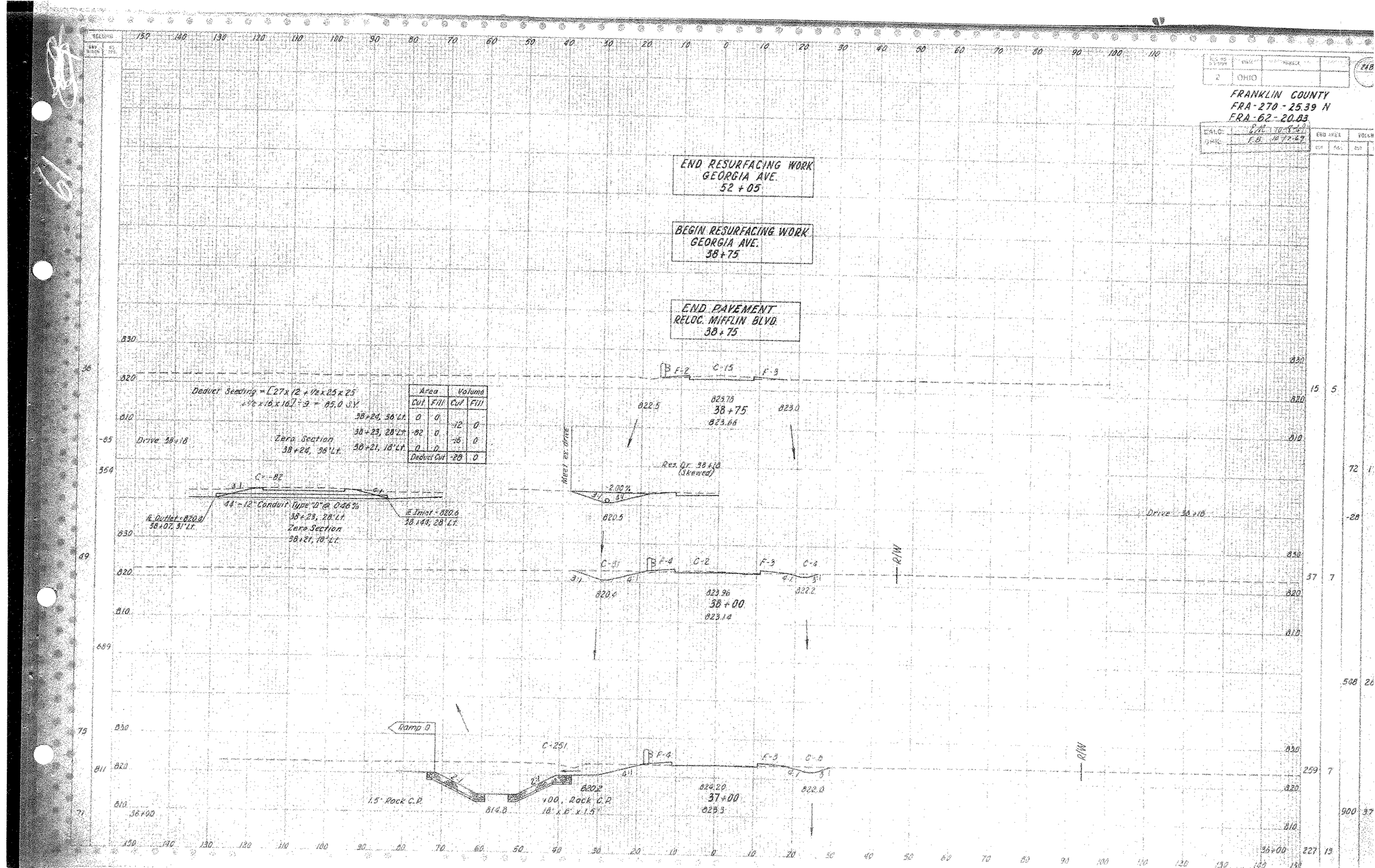
Deduct Cut -5
Deduct Fill -5

SEEDING

794	71
767	70
744	69
728	66
	65

-51 Deduct Seeding

32+00



FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
END RESURFACING WORK
GEORGIA AVE.
52+05
BEGIN RESURFACING WORK
GEORGIA AVE.
38+75
END PAVEMENT
RELOC. MIFFLIN BLVD.
38+75
Deduct Seeding = [27x12 + 1/2x25x25 + 1/2x16x16] ÷ 9 = 85.0 S.Y.
Area
Volume
Cut
Fill
38+24, 36' Lt.
38+23, 28' Lt.
38+21, 18' Lt.
Deduct Cut
Drive 38+18
Zero Section
38+24, 36' Lt.
C=-82
44'-12" Conduit Type "D" @ 0.46%
38+23, 28' Lt.
Zero Section
38+21, 18' Lt.
Meet ex. drive
Res. Dr. 38+18 (Skewed)
-2.00%
38+75
823.66
823.78
822.5
823.0
820.5
C-81
F-4
C-2
F-3
C-4
820.4
823.96
38+00
823.14
822.2
R/W
Drive 38+18
Ramp B
C-251
1.5' Rock C.P.
814.8
+00, Rock C.P.
18' x 6' x 1.5'
820.2
824.20
37+00
823.3
822.0
36+00

2	OHIO		

FRANKLIN COUNTY
FRA-270- 25.39 N
FRA-62-20.83

Begin Channel Work STA 0+00

-0.19%

-0.22%

-0.22%

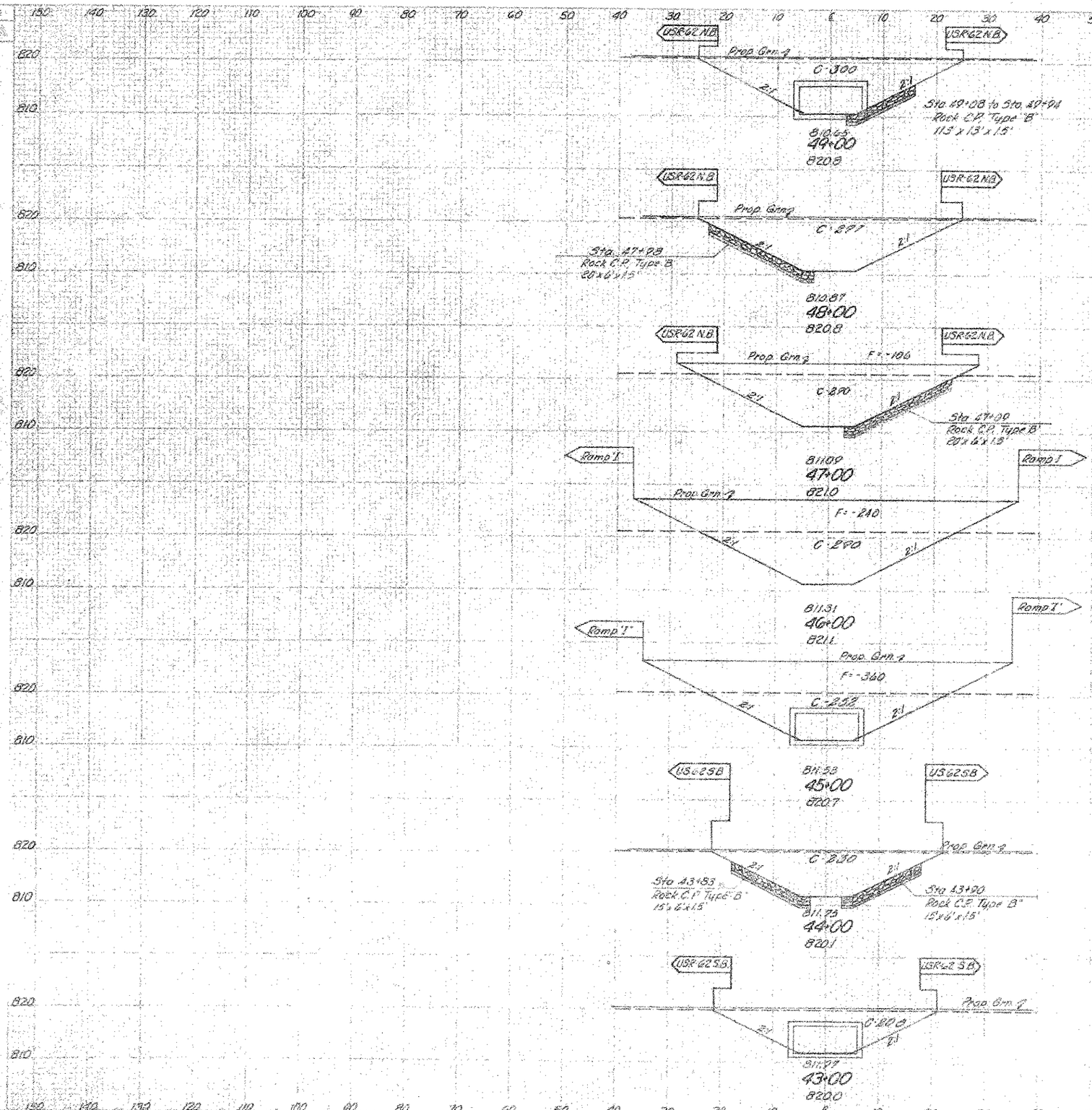
Structure FRA-6230A
US R-62 SB
Over Reloc Channel

Structure FRA 62 21AB
Ramp I
Over Reloc Channel

Structure FRA 62 21AS
US R 62 NB
Over Reloc Channel

End Channel Work
STA 3+25.55
STA 3+40.55

CHANNEL RELOCATION



Excav.	5079 C.Y.
Embank.	-2115 C.Y.

Seeding Carried on US 62 NB, US 62 SB & Ramp "I".

Carried From Sheet No. 221	49+82	302	0		
Full Section Ahead Sta. 49+09		300	0	816	0
Full Section Back Sta. 48+16	820	297	0		
				176	0
48+00	810	297	0		
				1087	-19
47+00	820	290	-106		
	810				
				1075	-64
46+00	820	290	-240		
Full Section Cut & Fill Ahead					
				592	-65
Full Section Fill only Back 45+41	810	252	-360		
					-14
Zero Section Fill only 45+19	820		0		
	810				
Zero Section Fill only 44+71			0		
Full Section Ahead Fill only Sta. 44+45		252	-360		
Full Section Back Cut & Fill					
				402	-30
44+00	820	230	0		
	810			290	0
Full Section Ahead Sta. 43+66		230	0		
	820				
Full Section Back		208	0		
Sta. 43+78	810				
				643	0
Carried From Sheet No. 192	43+00	237	0		

CHANNEL RELOCATION

CALC. 4/17/69
CHK. DEM

2 OHIO

250

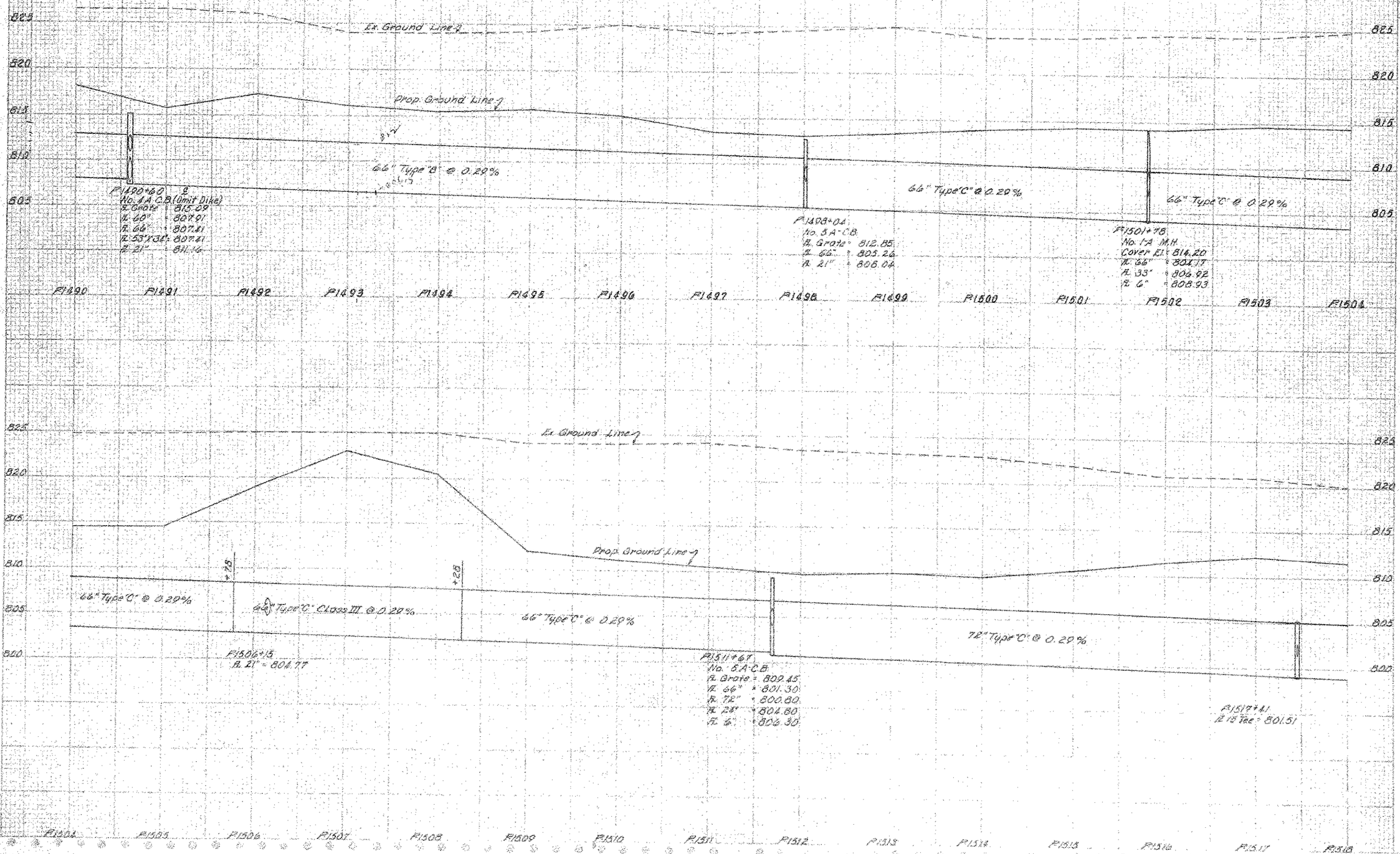
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

251

FRANKLIN COUNTY
FRA-270-23.99 M
FRA-62-20.83

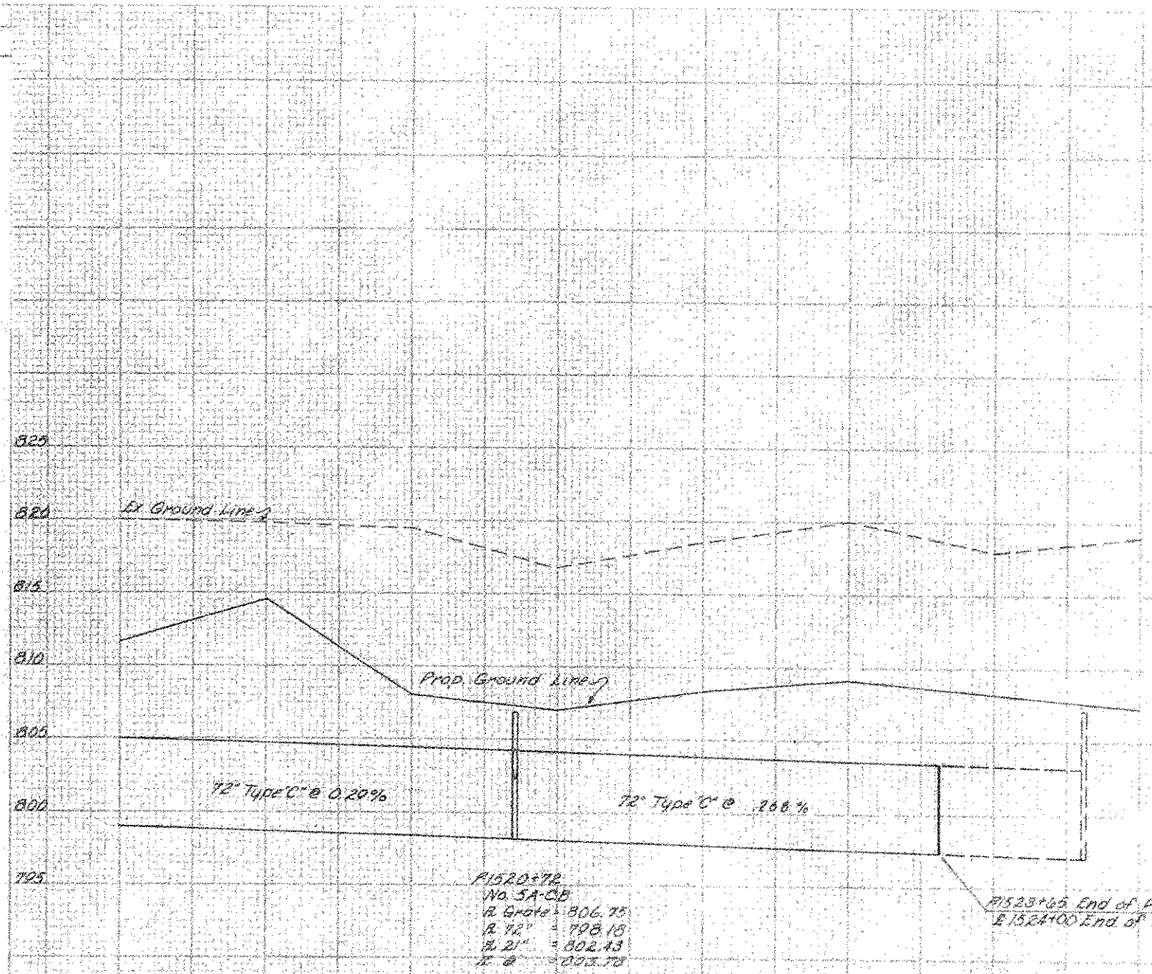
NOTE
For Storm Sewer Plan See Sheet No 60, 61, 62 & 63



Storm Sewer Profile

STATE	DIST.	COUNTY	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83



NOTE:
For Storm Sewer Plan See Sheet No. 60, 61, 62 & 63

P1518 P1519 P1520 P1521 P1522 P1523 P1524 P1525

Storm Sewer Profile

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

255

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

CP WDB 10-69
CI SRS 11-69

Note: Excavation Of Unsuitable Material And Granular Back Fill Shall Be Extended To Give Support To The Full Length Of Culvert And Endwalls. The Width Of The Back Fill Extension Shall Be No Less Than 10 Ft.

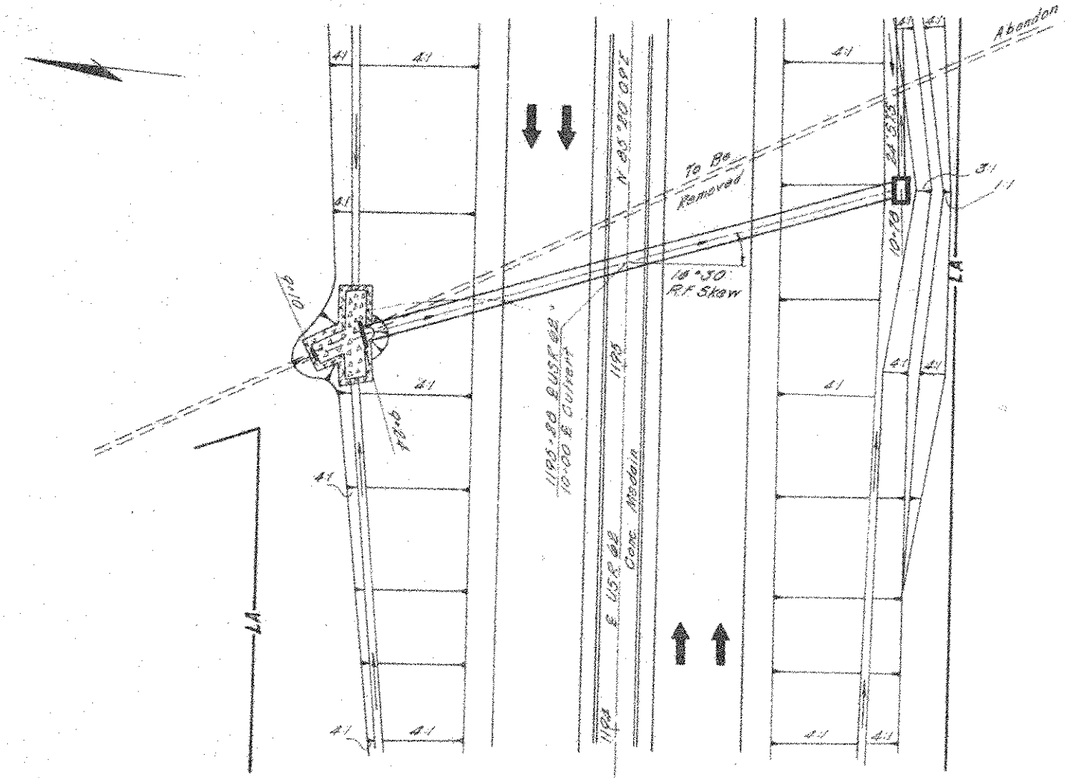
For USR-62 Plan & Profile And Cross Sections, See Sheet No. 181 & 206

Riprap-[(14x6)+(10x6)+(8x6)]÷9=21.3 S.Y.

Sodding-[(8x2)+(9x3)+(8x2)+(10x2)]x1.5÷9=13.2 S.Y.

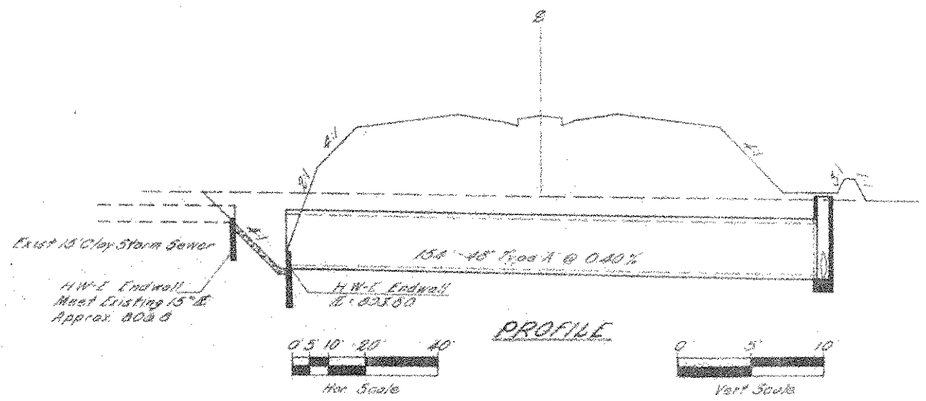
ESTIMATED QUANTITIES

603 48" Pipe - Type "A" 706.02	154 L.F.
602 Concrete Masonry	1.2 C.Y.
604 Std. No. 5-A Catch Basin	1 Ea.
601 Riprap. Using 6" Rein. Conc. Slab	22 S.Y.
660 Sodding	14 S.Y.



PLAN

CULVERT 1195+20



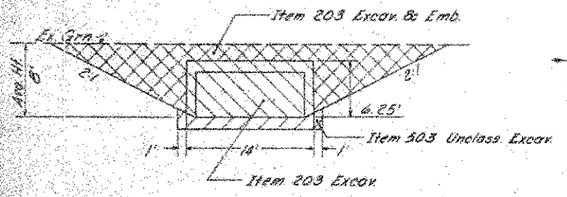
PROFILE

USR-62 1195+50, 77' Rt.
No. 5-A CB Omit Dike
℄ Grate 808.75
℄ 48" 802.89
℄ 24" 802.89
℄ 6"(2) 806.00

Culvert Detail FRA-62-22.64 STA. 1195+20

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83



PLAN

CONCRETE CLASS "C" CALCULATIONS

Barrel

End Area = 2[(4 x 1.25)+(5x1)+0.5(3x0.5)+(0.5 x 0.5)+0.5(0.5x2.5)] = 48.25 S.F.

Volume = 96 x 48.25 ÷ 27 = 171.56 C.Y.

Wingwalls

End Area = (11.25 x 1.25)+(7x1.25) = 22.8125 S.F.

Volume = 2{2[(15x 22.8125)+0.5(7x2.5x1.25)+0.5(7x3.5x1.25)+(14x1.0x1.25)+(14x2.75x1.25)}÷27 = 59.45 C.Y.

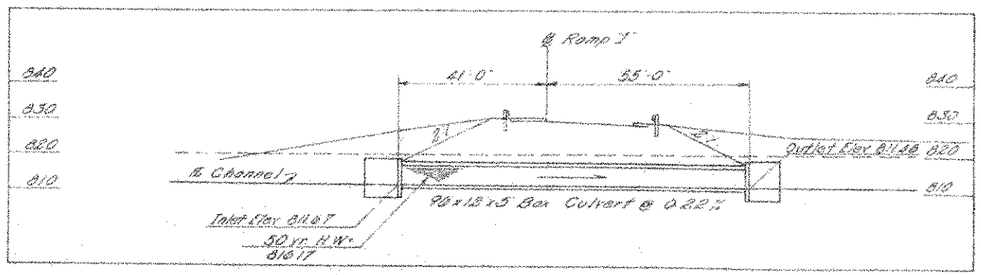
Total Concrete = 231.01 C.Y.

ESTIMATED QUANTITIES

503	Unclassified Excavation	152 C.Y.
509	Reinforcing Steel	30,037 Lbs
511	Concrete (Class "C")	231.0 C.Y.
203	Embankment	486 C.Y.
203	Excavation (Not including embankment construction)	796 C.Y.

Drainage Area	704 Ac
V-50	845 cfs
Q-50	3800 cfs

0 5 10 20 40
Scale



PROFILE

PROPOSED STRUCTURE

TYPE: 12x5' Reinforced Concrete Box Culvert
SPANS:
ROADWAY: 42'-0" f/f Guardrail
LOADING: HS 20-44
WEARING SURFACE:
SKEW: 00°07'55" R.F with Reference Tan
APPROACH SLAB:
ALIGNMENT: 3°00'00" Curve (right)
SUPERELEVATION: 0.070 ft/ft
AVERAGE DAILY TRAFFIC: 7576 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

STRUCTURE NO. FRA-62-2142
RAMP I over RELOC. CHANNEL

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVD
WDB	CB		WDS	BF	4/14/78	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

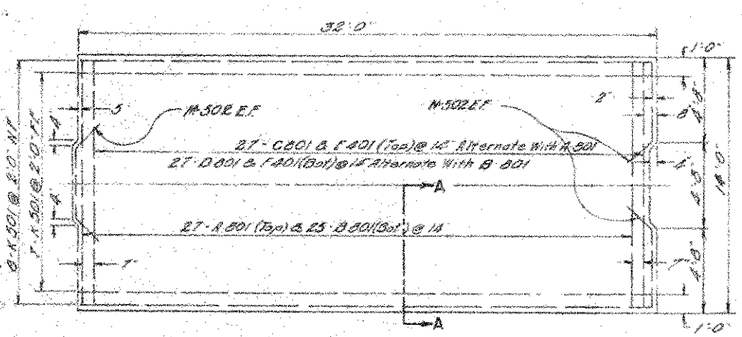
FRANKLIN COUNTY
FRA. 270-25.39 N
FRA. 62-20.83

REINFORCING STEEL

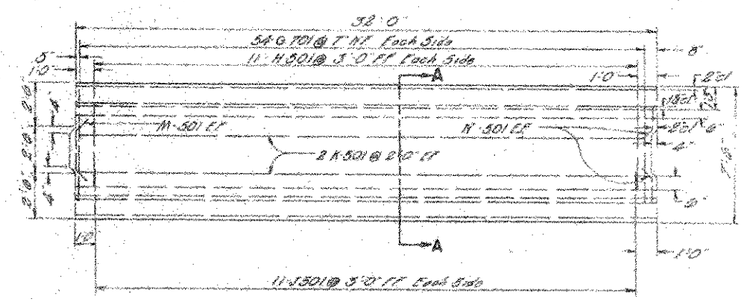
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A 801	81	17'-3"	1	13'-0"	1'-11½"	10½"	8'-0"	1'-0"	3731
B 801	81	20'-11"	1	13'-8"	2'-½"	9½"	8'-0"	3'-0"	4525
C 801	81	13'-8"	Str.						2580
D 801	81	15'-6"	Str.						2920
E 801	81	13'-6"	Str.						731
F 401	21	18'-7"	3	2'-7"	15'-0"	2'-7"			1006
G 701	384	7'-2"	3	0"	5'-10"	1'-6"			4748
H 501	60	5'-6"	Str.						378
J 501	60	3'-0½"	3	6"	3'-2"	0"			256
K 501	114	3'-6"	Str.						3768
M 501	8	4'-10"	2	1'-0"	1'-10"	1'-6"			41
N 502	8	7'-0"	2	1'-6"	4'-0"	1'-6"			59
N 501	16	3'-4"	2	1'-6"	1'-10"	0"			56
N 502	16	5'-6"	2	1'-6"	2'-0"	0"			92
P 501	56	3'-6"	2	1'-9"	0"	1'-9"			205
P 502	8	13'-5"	Str.						57
P 503	16	4'-6"	3	1'-11"	11"	1'-11"			60
P 504	8	15'-5"	Str.						112
P 505	16	7'-10"	3	3'-1"	11"	3'-1"			115
R 501	52	7'-10"	Str.						282
R 502	8	②	Str.						43
R 801	60	9'-5"	3	1'-9"	10"	0"			1509
R 502	10	③							257
S 501	72	10'-10"	Str.						812
T 501	66	14'-8"	Str.						847
T 502	32	①	Str.						564
		Total							30,087

REPLACEMENT BARS

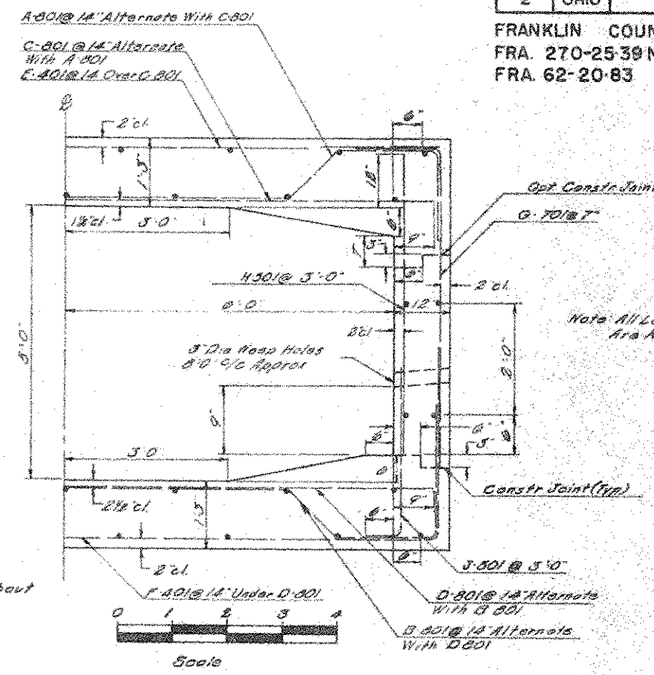
MARK	NO	LENGTH	TYPE
RT 401	1	6'-3"	Str.
RT 501	1	8'-7"	Str.
RT 701	1	7'-2"	3
RT 801	1	7'-6"	Str.



PLAN VIEW INTERIOR PANEL



ELEVATION INTERIOR PANEL



SECTION A-A



TYPE 1



TYPE 2



TYPE 3

LEGEND

- E.F. ——— Each Face
- N.F. ——— Near Face
- F.F. ——— Far Face
- O/O ——— Out To Out
- ① 8 Sets Of 2 Bars ——— Varies From 15'-6" To 18'-3"
- ② 4 Sets Of 2 Bars ——— Varies From 4'-6" To 6'-0"
- ③ 4 Sets Of 4 Bars ——— Varies From 4'-6" To 7'-5"



Notes

BAR SIZE: The Bar Size Is Indicated In The Bar Mark. The First Digit Indicates The Bar Size No. For Example: A 801 Is a No. 8 Size Bar.

FOUNDATION MATERIAL: Of Approximately Uniform Bearing Capacity Is Contemplated. Spots Of Soft Earth Shall Be Removed And Replaced With Thoroughly Compacted Granular Material.

EMBANKMENT: Shall Be Placed Symmetrically On Both Sides Of The Culvert Until The Top Side Is In Place. Embankment Over The Barrel Shall Be Placed In Horizontal Layers Simultaneously With That On Each Side Of Culvert.

UNIT STRESSES: Maximum Unit Design Stresses Are As Follows: f'_c = 28,000 lb Per Sq. In. f_c = 1,800 lb Per Sq. In. N = 10 f_s = 30,000 lb Per Sq. In. F_v = 90 lb Per Sq. In.

MAXIMUM: Allowable Soil Pressure 10 Tons Per Sq. F

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No FRA. 62-2142

RAMP I Over RELOCATED

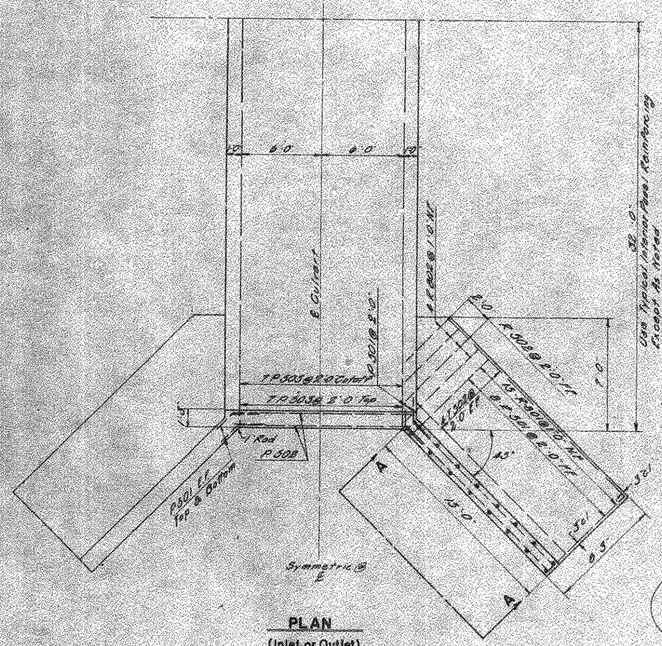
MASON RUN

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	
B.O.	DF		SAS		4-5-78	

BOX CULVERT STA. 1507+14.82

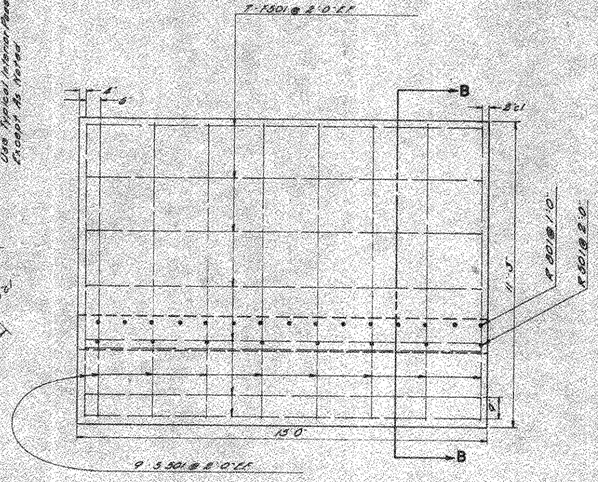
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA. 270-25-39N
FRA. 62-20-83



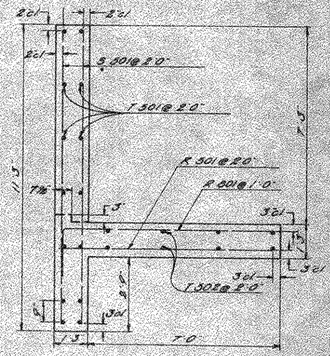
PLAN
(Inlet or Outlet)

Scale

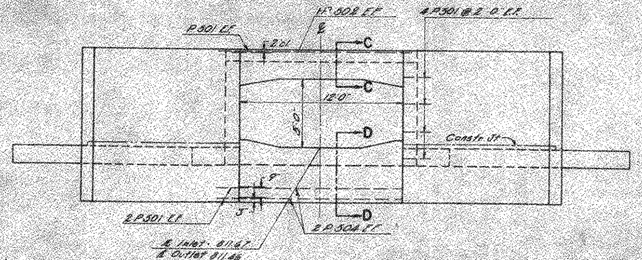


SECTION A-A

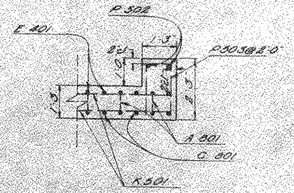
Scale



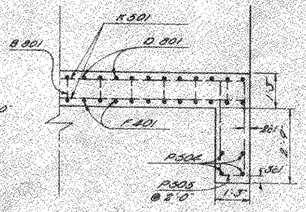
SECTION B-B



ELEVATION



SECTION C-C



SECTION D-D

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No. FRA.-62-2142

RAMP I Over RELOCATED

MASON RUN

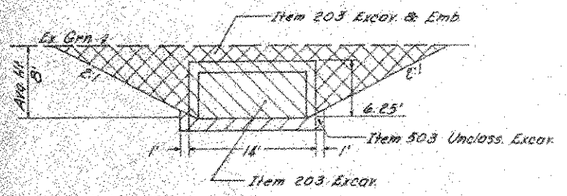
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WDG	RLB		SAS			

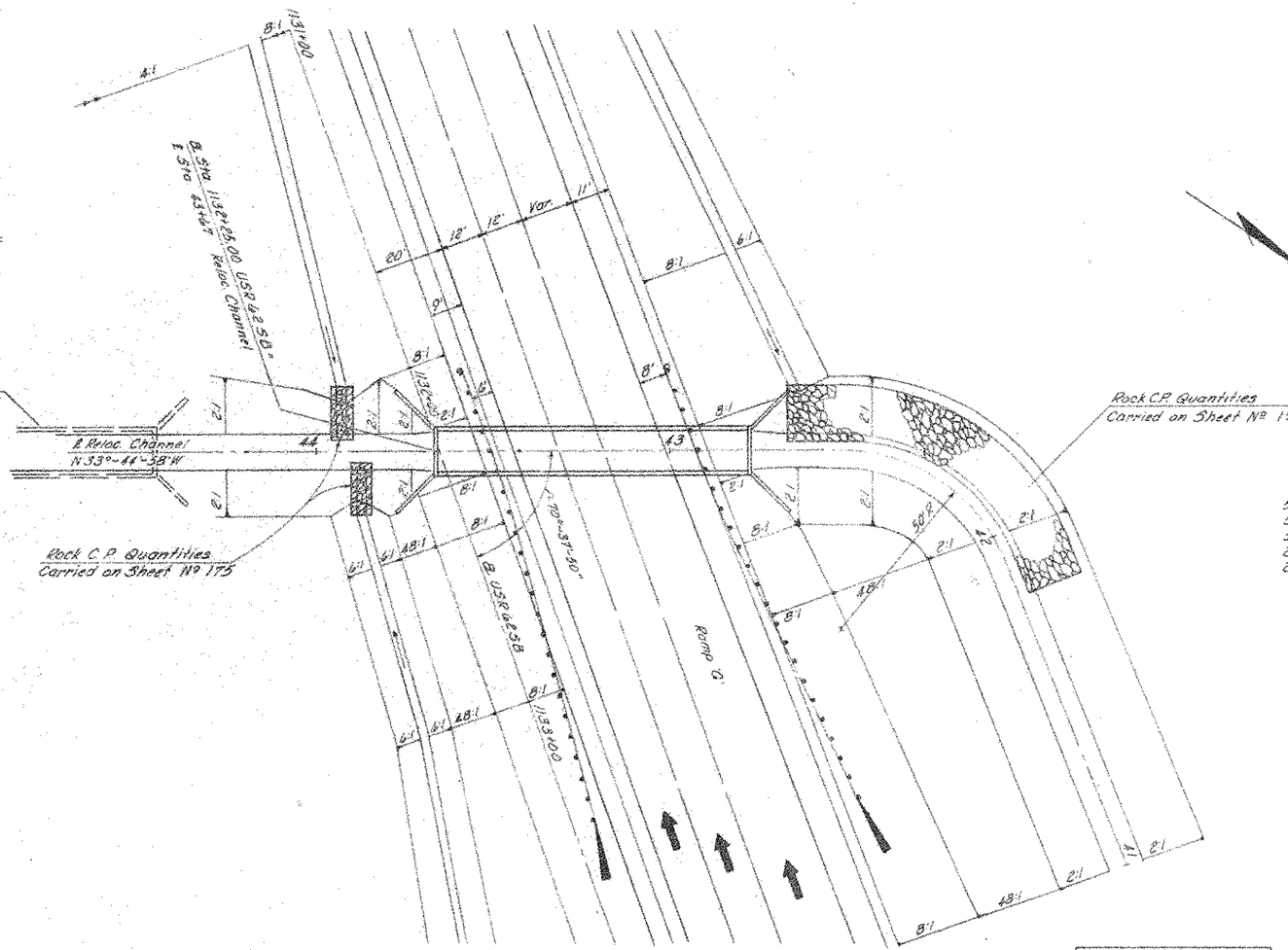
BOX CULVERT STA. 1507+14.82

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

257

FRA-270-25.39N
FRA-62-20.83
FRANKLIN COUNTY





CONCRETE CLASS "C" CALCULATIONS

Barrel (For calculations See Sheet Nº 254)
End Area = 48.25 S.F.
Volume = 90 x 48.25 ÷ 27 = 160.84 C.Y.

Wingwalls (For calculations See Sheet Nº 254)
Volume = 59.45 C.Y.

Total Concrete = 220.29 C.Y.

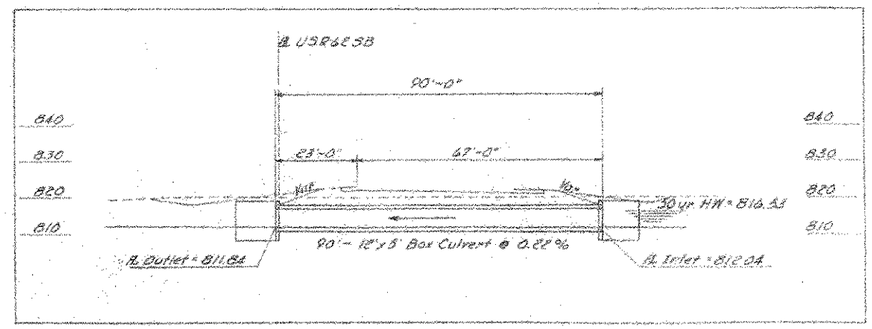
ESTIMATED QUANTITIES

503	Unclassified Excavation	230 C.Y.
509	Reinforcing Steel	28,635 Lbs.
511	Concrete (Class "C")	220.3 C.Y.
203	Embankment	455 C.Y.
203	Excavation (Not including embankment construction)	747 C.Y.



PLAN

Drainage Area	698 Ac
V-50	8 fps
Q-50	357 cfs



PROFILE

PROPOSED STRUCTURE

TYPE: 12'x5' Reinforced Concrete Box Culvert
SPANS:
ROADWAY: 54'-8.5" Average f/f Guardrail
LOADING: HS 20-44
WEARING SURFACE:
SKEW: 19°22'10" LF
APPROACH SLAB:
ALIGNMENT: Tangent
SUPERELEVATION: None
AVERAGE DAILY TRAFFIC: 12255 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS OHIO

SITE PLAN

STRUCTURE No. FRA-62-2144
USR-62SB Over MASON RUN
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WDG	RLG		SRS	JF	4/14/70	

BOX CULVERT STA 1132+25

FED. ROAD REVISION	STATE	PROJECT		
2	OHIO			

252

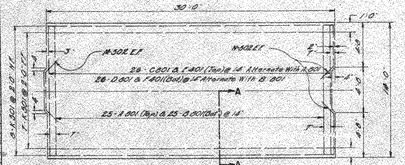
FRANKLIN COUNTY
FRA-270-25·39N
FRA-62-20·83

REINFORCING STEEL

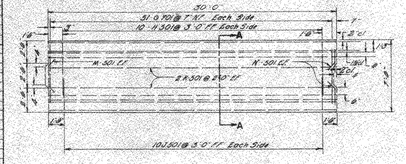
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A 901	75	17'-3"	1	15'0"	1'-10½	10'8"	8'0"	1'0"	3955
B 901	75	26'-11"	1	13'0"	2'-8"	25"	8'0"	3'0"	4190
C 901	78	13'-9"	Str.						2812
D 901	78	13'-6"	Str.						2812
E 901	78	13'-9"	Str.						704
F 901	78	12'-7"	3	3'-1"	13'0"	8'-1"			960
G 701	304	7'-2"	3	0"	3'-10"	1'-8"			4683
H 901	60	5'-9"	Str.						345
I 901	60	3'-9½"	3	8"	3'-5"	0"			233
K 301	116	29'-8"	3 Str.						3528
M 301	8	4'-10"	2	1'-8"	1'-10"	1'-8"			41
M 902	8	5'-0"	2	1'-8"	2'-0"	1'-8"			59
N 601	16	3'-4"	2	1'-8"	1'-10"	0"			56
N 602	16	5'-8"	2	1'-8"	4'-0"	0"			82
P 901	56	3'-8"	2	1'-8"	0"	1'-8"			205
P 303	1	13'-8"	3 Str.						37
P 901	16	6'-8"	3	1'-8"	11"	1'-11"			46
P 304	8	13'-8"	3 Str.						114
P 903	14	7'-10"	3	3'-1"	11"	3'-1"			116
R 901	32	5'-10"	3 Str.						246
R 302	8	②	3 Str.						46
R 801	60	9'-5"	3	1'-8"	10"	0"			1509
R 802	16	③							257
S 301	76	10'-10"	3 Str.						813
T 301	44	14'-8"	3 Str.						847
T 302	32	①	3 Str.						584
		Total							28635

REPLACEMENT BARS

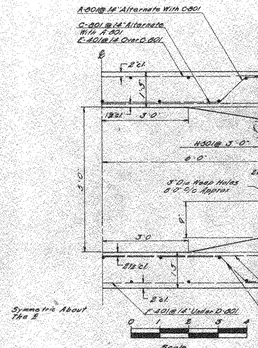
MARK	NO	LENGTH	TYPE
RE-601	1	6'-5"	Str
RE-501	1	6'-7"	Str
RE-701	1	7'-2"	3
RE-801	1	7'-6"	Str



PLAN VIEW INTERIOR PANEL



ELEVATION INTERIOR PANEL



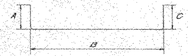
SECTION A-A



TYPE 1



TYPE 2



TYPE 3

NOTES

BAR SIZE The Bar Size Is Indicated In The Bar Mark. The First Digit Indicates The Bar Size No. For Example: A 901 Is a No 9 Size Bar.

FOUNDATION MATERIAL Of Approximately Uniform Bearing Capacity Is Contemplated. Spots Of Soft Earth Shall Be Removed And Replaced With Thoroughly Compacted Granular Material.

EMBANKMENT Shall Be Placed Symmetrically On Both Sides Of The Culvert After The Top Slab Is In Place. Embankment Over The Barrel Shall Be Placed In Horizontal Layers Simultaneously With That On Each Side Of Culvert.

UNIT STRESSES Maximum Unit Design Stresses Are As Follows: fs = 20,000 Lbs. Per Sq. In. fc = 1,200 Lbs. Per Sq. In. N = 10 Ln. 300 Lbs. Per Sq. In., fv = 90.1 Lbs. Per Sq. In.

MAXIMUM Allowable Soil Pressure 2 Tons Per Sq. Ft.

LEGEND

C.F. ——— Each Face
N.F. ——— Near Face
F.F. ——— Far Face
O.O. ——— Out To Out
① 8 Sets of 4 Bars — Varies From 15'-6" to 16'-3"
② 4 Sets of 2 Bars — Varies From 4'-6" to 6'-6"
③ 4 Sets of 4 Bars — Varies From 6'-6" to 7'-6"

0 5 10
Scale

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

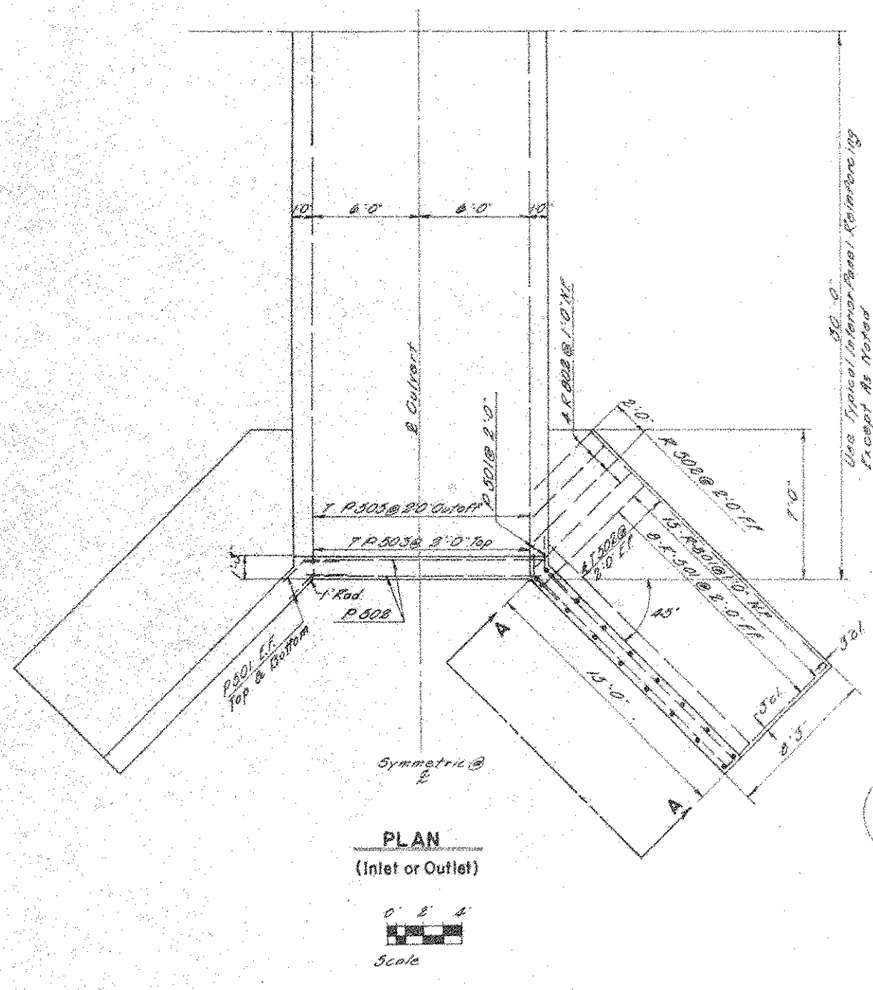
STRUCTURE No. FRA-62-2144
USR 62 SB Over RELOCATED
MASON RUN

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.D.K.			SAS	JK	4/13/72	

BOX CULVERT STA. 1132+25

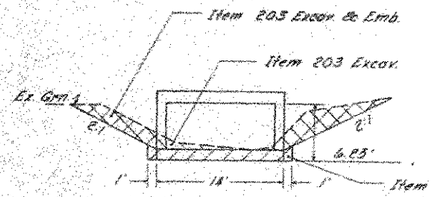
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

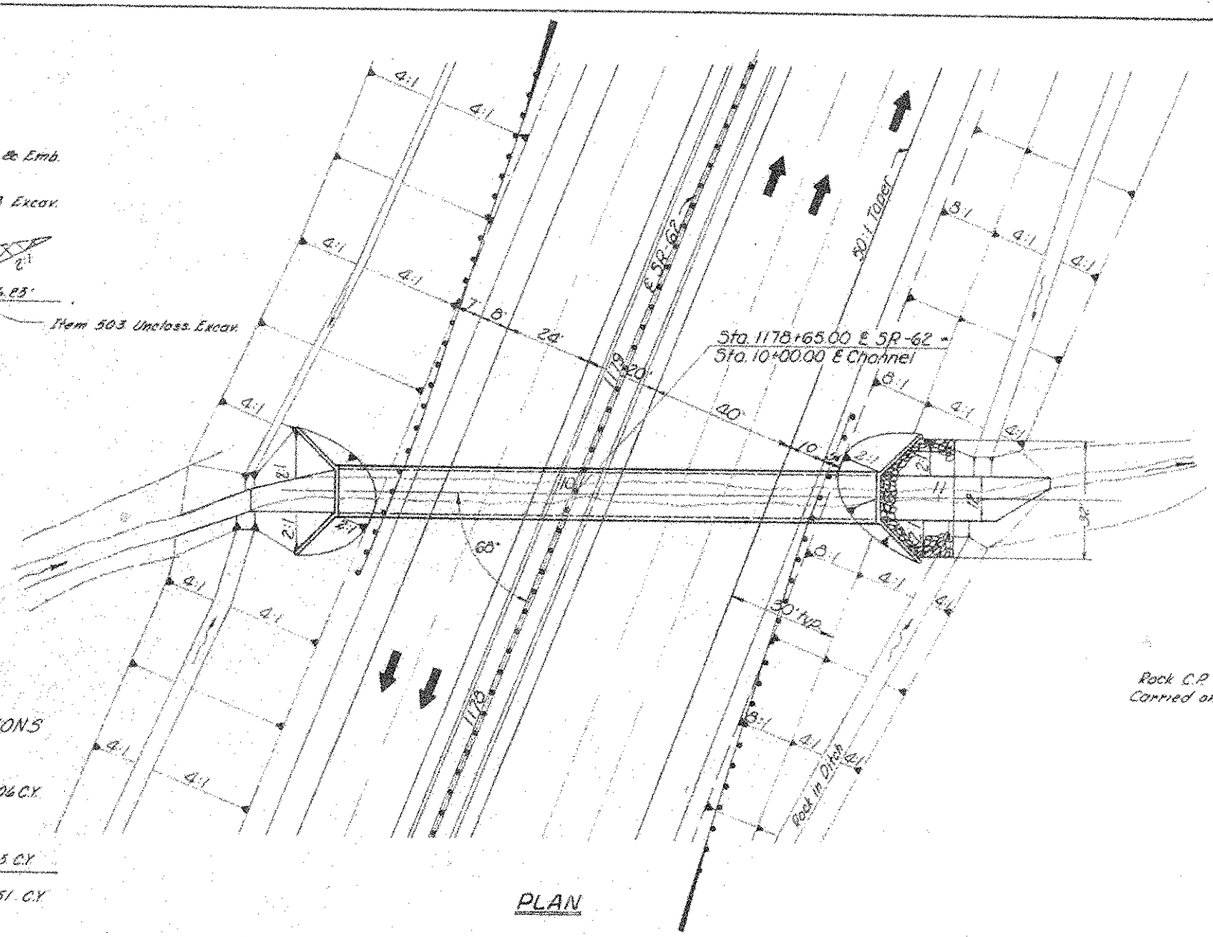
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83


10'
6'-0"
6'-0"
10'
℄ Culvert
4 #8@1'-0" Ctrs
Use Typical Interior Wall Reinforcing Except As Noted
32'-0"
2'-0"
7 #5@2'-0" Ctrs
T #5@20" Outoff
T #5@2'-0" Top
3'-0"
1'-0"
#5@2'-0" Ctrs
13-#5@10" Ctrs
B #5@2'-0" Ctrs
45°
A
A
15'-0"
3'-0"
8'-3"
1'-0"
#5@2'-0" Ctrs
#5 Rod
#5 Rod
#5@2'-0" Ctrs
#5@2'-0" Ctrs
#5@2'-0" Ctrs

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA. 270-25.39-N
FRA. 62-20.83





PLAN

Rock C.P. Quantities
Carried on Sheet No. 179

ESTIMATED QUANTITIES

503	Unclassified Excavation	214 C.Y.
509	Reinforcing Steel	44,561 Lbs.
511	Concrete (Class C)	327.5 C.Y.
203	Embankment	167 C.Y.
203	Excavation (Not including embankment construction)	189 C.Y.

CONCRETE CLASS "C" CALCULATIONS

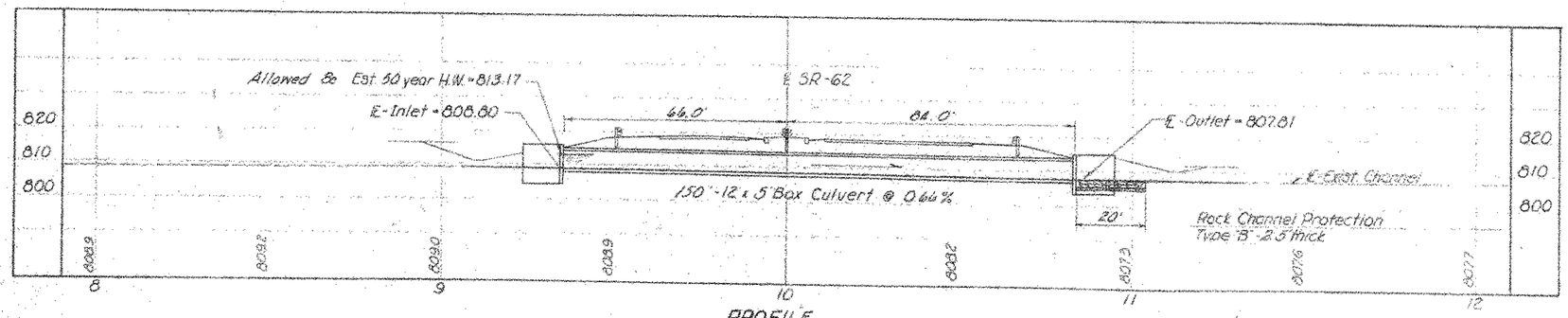
Barrel (For calculations See Sheet No. 254)
End Area = 48.25 S.F.
Volume = 150 x 48.25 ÷ 27 = 268.06 C.Y.

Wingwalls (For calculations See Sheet No. 254)

Volume = 59.45 C.Y.

Total Concrete = 327.51 C.Y.

0 5 10 20 40



PROFILE

Drainage Area = 404 acres
Q 25 year = 255 cfs
Q 50 year = 308 cfs
V-50 = 11 fps

PROPOSED STRUCTURE

TYPE: 12'x5' Reinforced Concrete Box Culvert
ROADWAY: 108'-0" ft Guardrail
LOADING: HS 20-44
SKEW: 22° R.F.
ALIGNMENT: on Tangent
SUPERELEVATION: None
AVERAGE DAILY TRAFFIC: 14,951 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN
STRUCTURE No. FRA 62-0149
USR 62 Over WINDSOR DITCH

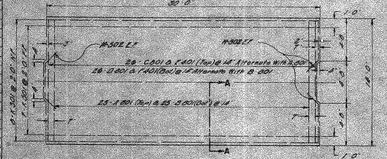
FRANKLIN COUNTY 1R-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	SHEET
WDK	RLG		SAS	JF	4/17/74	

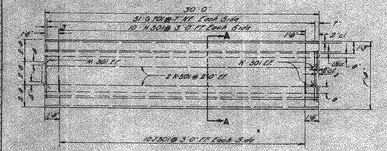
BOX CULVERT STA. 1178+65

REINFORCING STEEL										
MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A-301	123	17'-3"	1	1'-8"	1'-10"	10'-8"	0'-0"	1'-8"	3738
A-501	135	20'-11"	1	1'-8"	2'-8"	9'-8"	0'-0"	3'-8"	9982
C-501	430	13'-8"	Str.						4836
D-801	130	13'-8"	Str.						4836
E-401	140	13'-8"	Str.						1123
F-401	450	18'-7"	3	2'-1"	15'-8"	2'-7"			1818
G-501	600	7'-8"	3	0'	6'-10"	1'-8"			7677
H-501	180	3'-8"	Str.						532
I-801	180	3'-9"	3	0'	3'-6"	0"			337
K-501	180	25'-3"	Str.						3980
M-301	12	4'-10"	2	1'-8"	1'-10"	1'-8"			81
N-801	12	7'-0"	2	1'-8"	2'-0"	1'-8"			117
O-501	12	7'-8"	2	1'-8"	2'-8"	0"			118
P-501	24	3'-8"	2	1'-8"	1'-10"	0"			132
R-501	32	5'-8"	2	1'-8"	4'-0"	0"			185
S-501	32	5'-8"	2	1'-8"	0"	1'-8"			205
T-301	4	13'-5"	Str.						37
U-303	4	4'-0"	3	1'-8"	0"	1'-4"			36
V-304	8	11'-6"	Str.						173
W-305	24	7'-10"	3	3'-7"	1'-11"	3'-7"			115
X-501	128	7'-10"	Str.						268
Y-502	A	ⓐ	Str.						48
Z-501	90	8'-3"	3	1'-8"	1'-10"	0"			309
AA-502	18	ⓑ							237
BB-501	78	10'-10"	Str.						316
CC-501	39	14'-8"	Str.						847
DD-502	32	ⓒ	Str.						564
		Total							22561

REPLACEMENT BARS		
MARK	NO	LENGTH TYPE
FF-401	1	8'-3" Str.
GG-501	1	9'-1" Str.
HH-501	1	7'-7" Str.
II-801	6	7'-8" Str.



PLAN VIEW INTERIOR PANEL

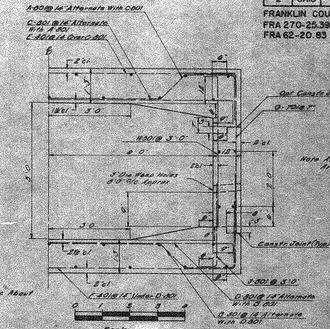


ELEVATION INTERIOR PANEL

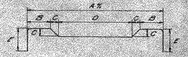
LEGEND

- F.F. ——— Back Face
- N.F. ——— Near Face
- F.F. ——— Far Face
- O/O ——— Out to Out
- (1) B Sets Of A Bars ——— Varies From 13'-8" To 8'-3"
- (2) A Sets Of B Bars ——— Varies From 4'-8" To 6'-0"
- (3) A Sets Of A Bars ——— Varies From 8'-8" To 5'-7"

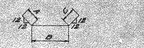
Scale 0 3 12'



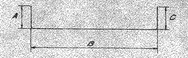
SECTION A-A



TYPE 1



TYPE 2



TYPE 3

Notes

BAR SIZE: The Bar Size is Indicated In The Bar Mark. The First Digit Indicates The Bar Size No. For Example: A 304 Is No. 3 Size Bar.

FOUNDATION MATERIAL: Of Approximately Uniform Bearing Capacity Is To Be Inspected, Sheets Of Suitable Sheet Pile Reserved And Ordered When Thoroughly Consented Character Material.

REINFORCEMENT: Shall Be Placed Symmetrically On Both Sides Of The Centerline Of The Top Slab & Floor Embedded Over The Barrel. Splices Shall Be Horizontal Unless Otherwise Noted. All Bars Shall Be Tied Solid Of Culvert.

UNIT STRESSES: Maximum Unit Design Stresses Are As Follows: f_s = 20,000 lb. Per Sq. In. for C301 & Per Sq. In. X-102 & 20,000 lb. for Sq. In. F-201 & 18,000 Lb. Per Sq. In.

MAXIMUM Allowable Soil Pressure 1.5 Tons Per Sq. Ft.

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No. FRA-62-0149

USR 62 Over WINDSOR DITCH

DESIGNED	DRAWN	TRACED	CHECKED	APPROVED	DATE	REVISED
A.D.L.						

FED. AID PROJ. NO.	STATE	PROJECT	SHEET NO.
2	OHIO		

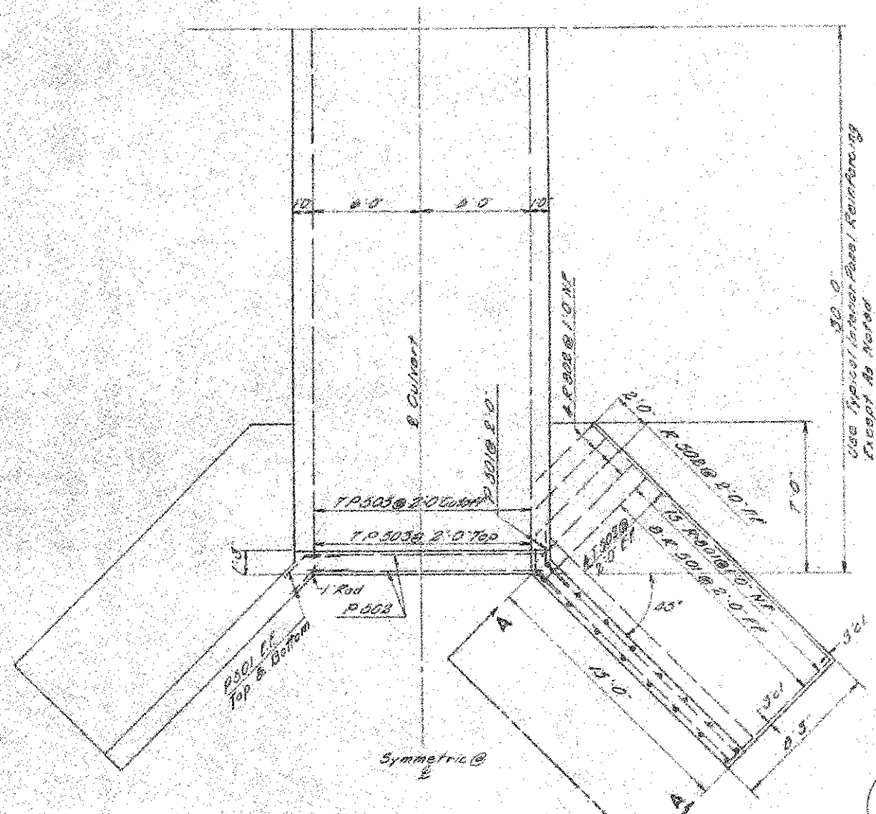
FRANKLIN COUNTY
FRA 270-25.39N
FRA 62-20.83

BOX CULVERT STA 1178+65

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

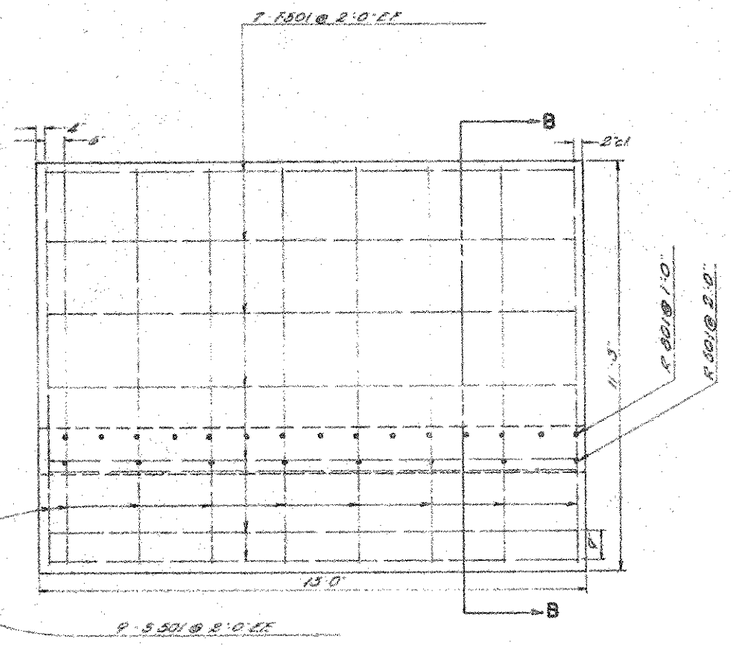
262

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83



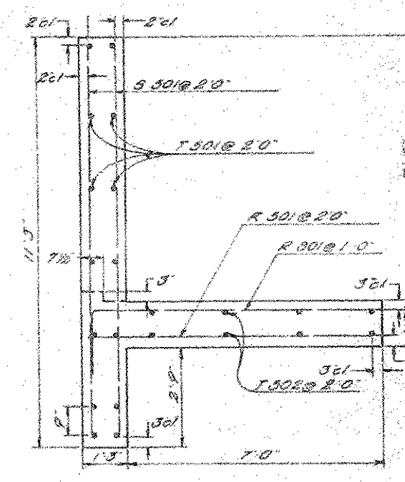
PLAN
(Inlet or Outlet)

0' 2' 4'
Scale

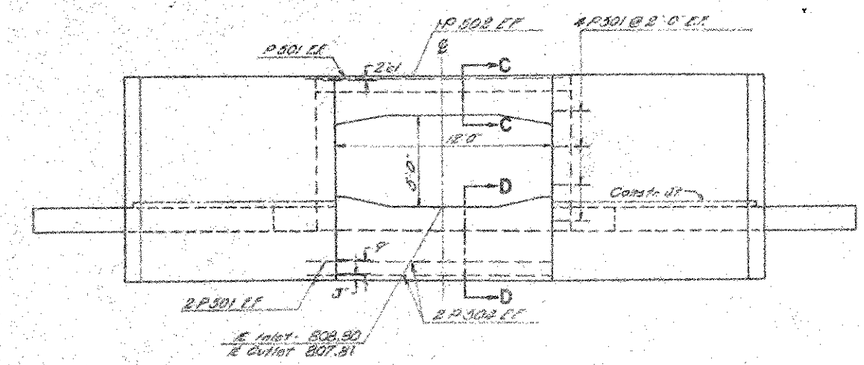


SECTION A-A

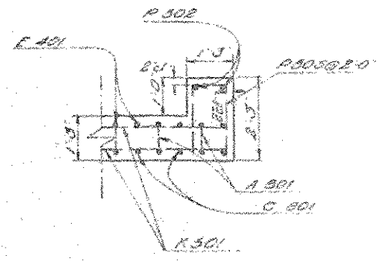
0' 2' 4'
Scale



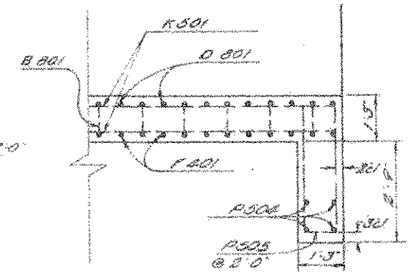
SECTION B-B



ELEVATION



SECTION C-C



SECTION D-D

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No. FRA-62-01 49

USR 62 Over WINDSOR DITCH

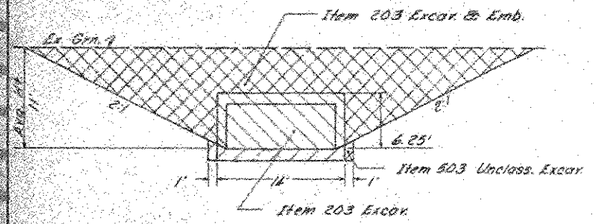
DESIGNED	DETAILED	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.D.H.			5/15	JH 9/15/70		

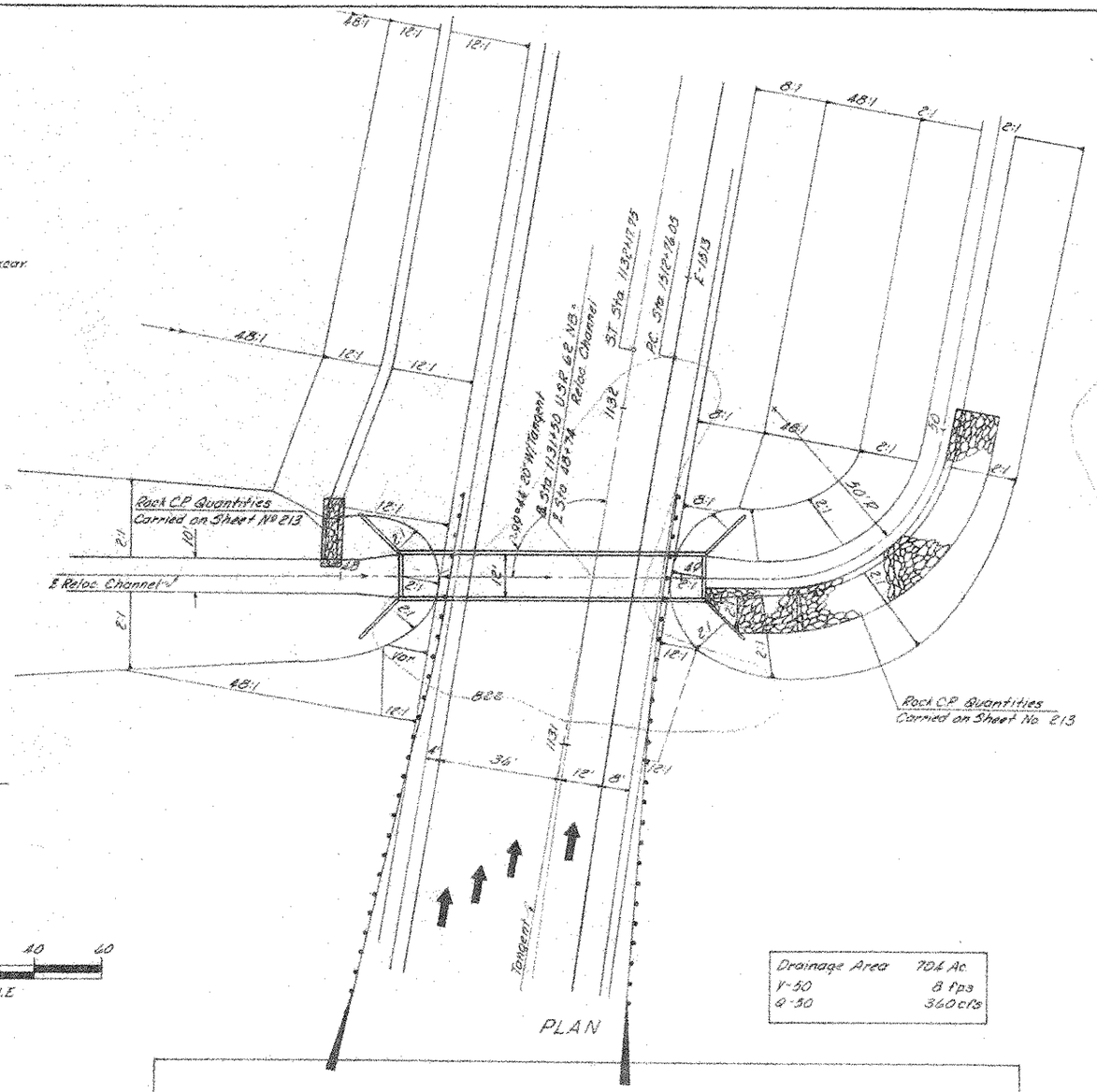
BOX CULVERT STA 1178+65

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

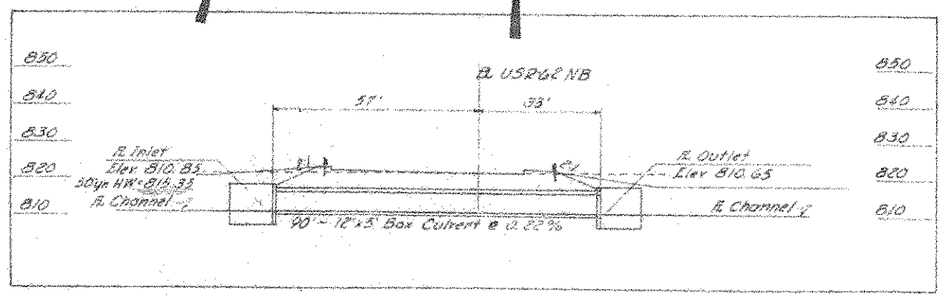
263

FRANKLIN COUNTY
FRA.270-25.39 N
FRA.62-20.83





PLAN



PROFILE

Drainage Area	70.4 Ac.
Y-50	8 fps
Q-50	360 cfs

10 20 40 60
SCALE

CONCRETE CLASS "C" CALCULATIONS

Barrel (For calculations See Sheet No 254)
End Area = 48.25 S.F.
Volume = 90 x 48.25 ÷ 27 = 160.84 C.Y.

Wingwalls (For calculations See Sheet No 254)
Volume = = 59.45 C.Y.

Total Concrete = 220.29 C.Y.

ESTIMATED QUANTITIES

503	Unclassified Excavation	238 C.Y.
509	Reinforcing Steel	28,635 Lbs.
511	Concrete (Class "C")	220.3 C.Y.
203	Embankment	955 C.Y.
203	Excavation (Not including embankment construction)	1286 C.Y.

PROPOSED STRUCTURE

TYPE: 12'x5' Reinforced Concrete Box Culvert
SPANS:
ROADWAY: 62'-0" f/f Guardrail

LOADING: HS 20-44
WEARING SURFACE:
SKEW: 9°44'20" L.F.
APPROACH SLAB:
ALIGNMENT: 2°00 Spiral
SUPERELEVATION: 0.0156 ft/ft
AVERAGE DAILY TRAFFIC: 20,085 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

STRUCTURE NO. FRA-62-21.43
USR-62NB over MASON RUN
FRANKLIN COUNTY 18-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SKS	RJB		2/1/74	JF	5/14/74	

BOX CULVERT STA. 1131+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

264

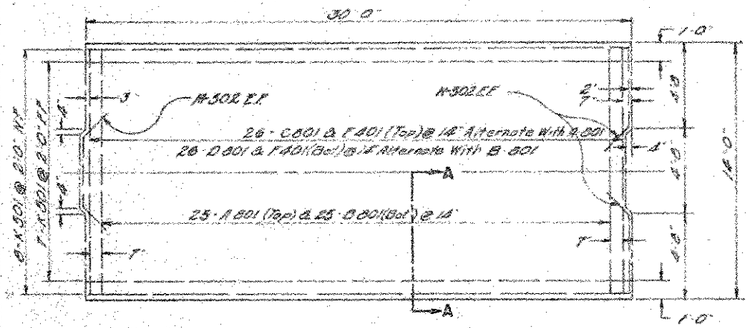
FRANKLIN COUNTY
FRA. 270-2539 N
FRA. 62-2083

REINFORCING STEEL

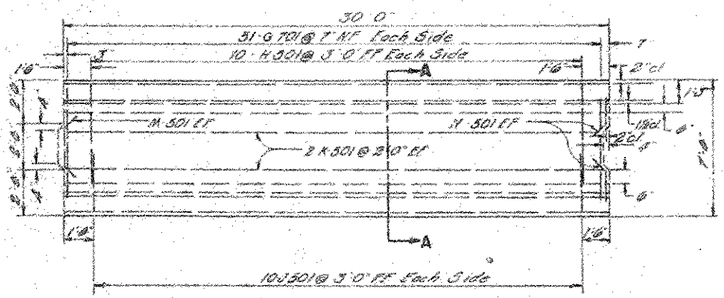
MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A-301	75	17'-3"	1	13'-0"	1'-11½"	10½"	8'-0"	1'-8"	3035
B-301	75	20'-11"	1	13'-8"	2'-2"	9½"	8'-0"	3'-6"	4190
C-301	78	13'-9"	Str.						2812
D-301	78	15'-6"	Str.						2812
E-401	78	18'-6"	Str.						702
F-401	78	18'-1"	3	2'-1"	1'-3½"	2'-1"			969
G-701	306	7'-2"	3	0"	5'-10"	1'-6"			4425
H-301	60	5'-6"	Str.						345
J-301	60	5'-0½"	3	0"	5'-2"	0"			233
K-301	114	29'-2"	Str.						3529
M-301	8	2'-10"	2	1'-6"	1'-10"	1'-6"			21
M-302	2	7'-0"	2	1'-6"	4'-0"	1'-6"			59
N-301	16	3'-4"	2	1'-0"	1'-10"	0"			58
N-302	16	5'-6"	2	1'-6"	2'-0"	0"			92
P-301	50	3'-6"	2	1'-9"	0"	1'-9"			205
P-302	4	13'-8"	Str.						57
P-303	14	8'-6"	3	1'-11"	11"	1'-11"			98
P-304	8	13'-8"	Str.						113
P-305	14	7'-10"	3	3'-7"	11"	3'-7"			115
R-301	58	7'-10"	Str.						282
R-302	8	②	Str.						40
R-801	60	9'-3"	3	1'-8"	10"	0"			1501
R-802	18	③							257
S-301	72	10'-10"	Str.						814
T-501	36	18'-6"	Str.						827
T-502	32	①	Str.						504
		Total							28635

REPLACEMENT BARS

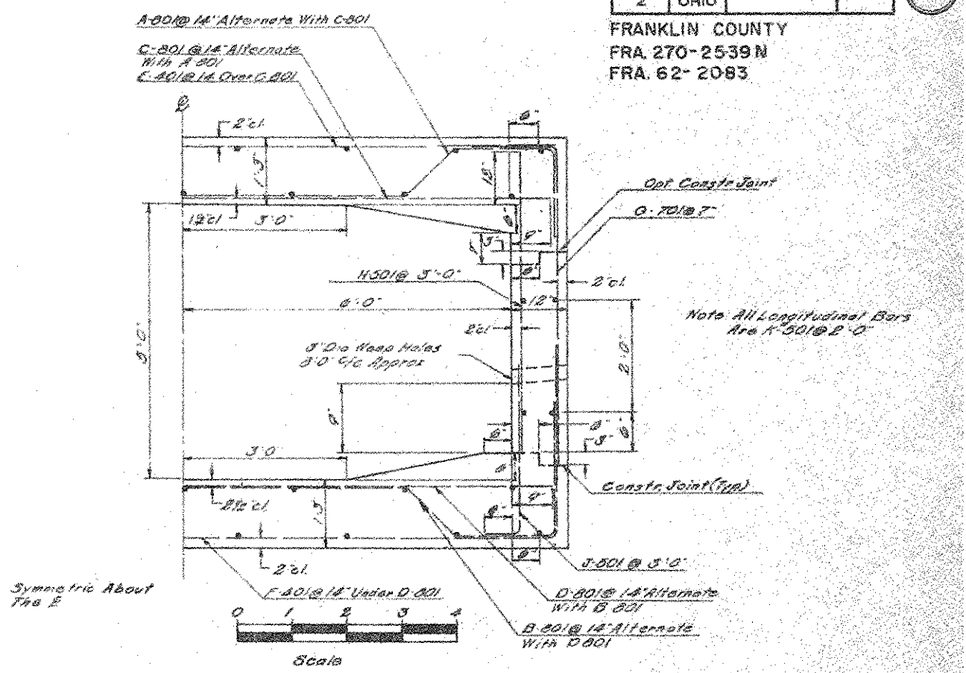
MARK	NO	LENGTH	TYPE
RE-401	1	8'-5"	Str.
RE-501	1	8'-7"	Str.
RE-701	1	7'-2"	3
RE-801	1	7'-6"	Str.



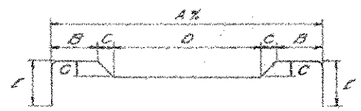
PLAN VIEW INTERIOR PANEL



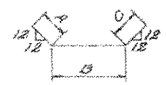
ELEVATION INTERIOR PANEL



SECTION A-A



TYPE 1



TYPE 2



TYPE 3

Notes

BAR SIZE: The Bar Size Is Indicated In The Bar Mark. The Digit Indicates The Bar Size No. For Example: A 801 Is a No. 8 Size Bar.

FOUNDATION MATERIAL: Of Approximately Uniform Bearing Capacity Is Contemplated. Spots Of Soft Earth Shall Be Removed And Replaced With Thoroughly Compacted Granular Material.

EMBANKMENT: Shall Be Placed Symmetrically On Both Sides Of The Culvert After The Top Slab Is In Place. Embankment Over The Barrel Shall Be Placed In Horizontal Layers Simultaneously With That On Each Side Of Culvert.

UNIT STRESSES: Maximum Unit Design Stresses Are As Follows: f_s = 20,000 Lb. Per Sq. In. f_c = 1200 Lb. Per Sq. In. f'_c = 3000 Lb. Per Sq. In. V = 90 Lb. Per Sq. In.

MAXIMUM: Allowable Soil Pressure 2 Tons Per Sq. Ft.

LEGEND

E.F. ——— Each Face
N.F. ——— Near Face
F.F. ——— Far Face
o/o ——— Out To Out
① 8 Sets Of 4 Bars ——— Varies From 15'-6" To 10'-3"
② 4 Sets Of 2 Bars ——— Varies From 4'-6" To 6'-6"
③ 4 Sets Of 4 Bars ——— Varies From 4'-6" To 7'-6"



FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No FRA-62-2143
USR 62 NB Over RELOCATED
MASON RUN

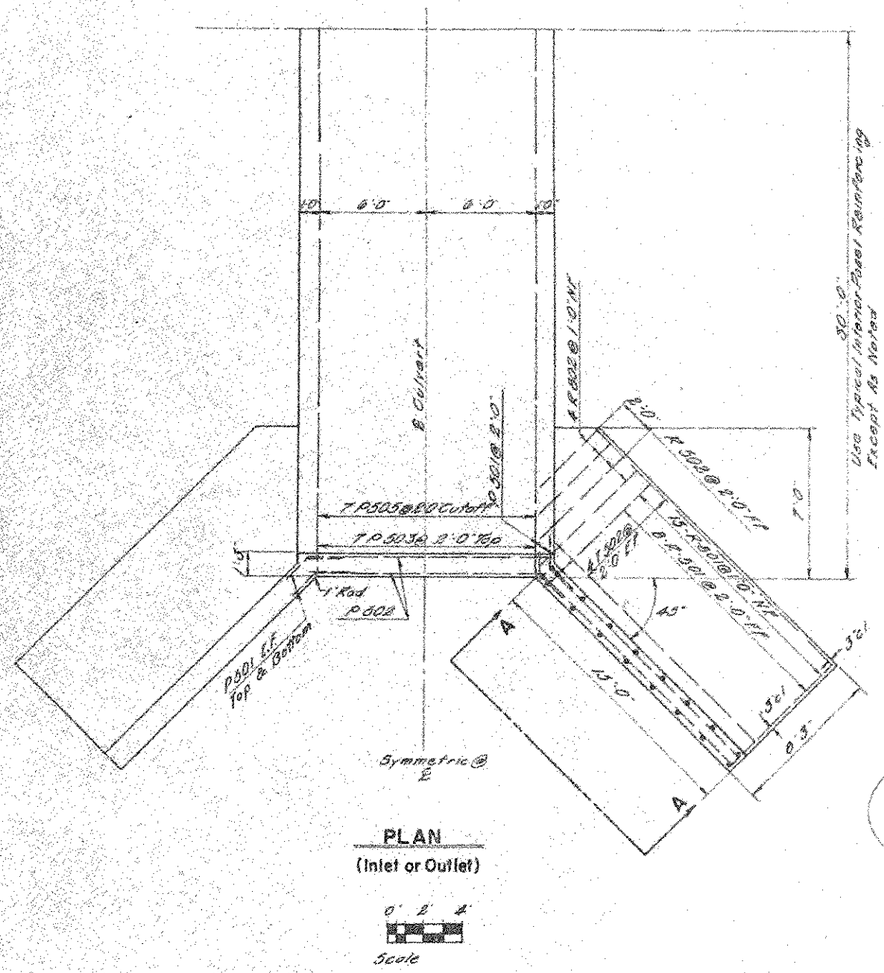
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SAS			WDS			

BOX CULVERT STA. 1131+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

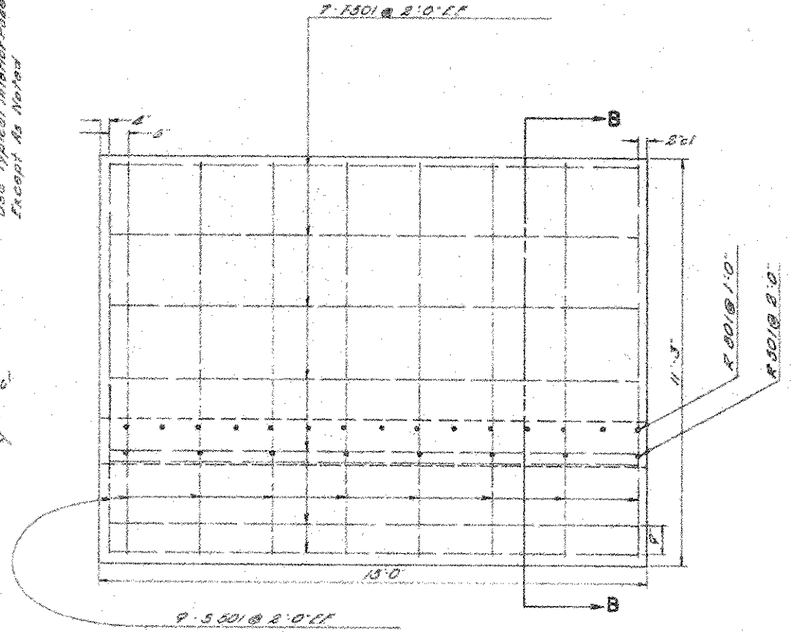
265

FRANKLIN COUNTY
FRA. 270-25-39N
FRA. 62-20-83

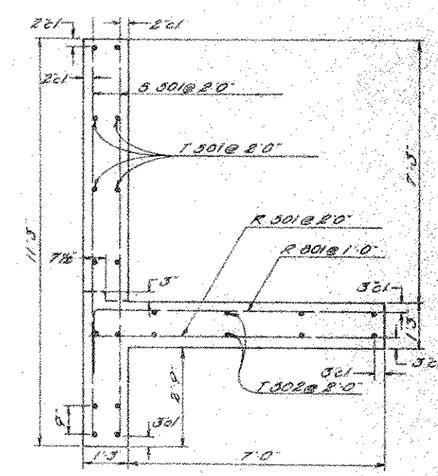


PLAN
(Inlet or Outlet)

Scale

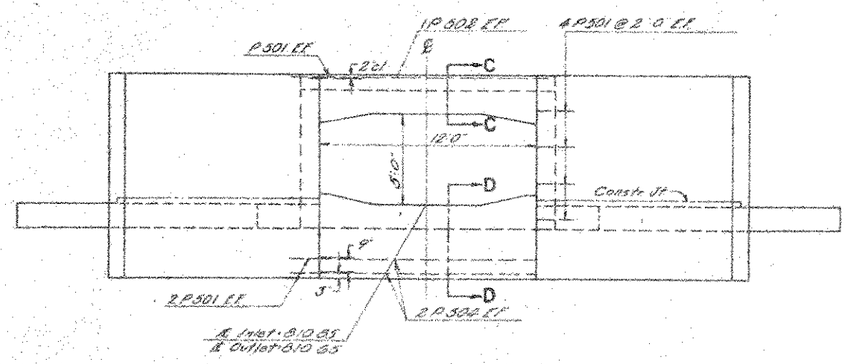


SECTION A-A

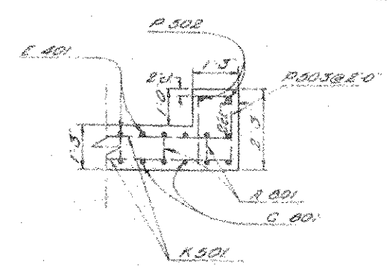


SECTION B-B

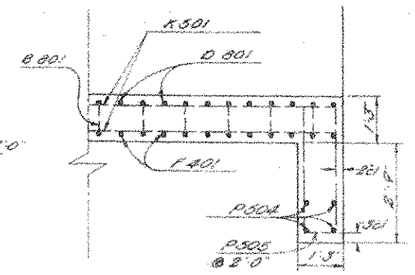
Scale



ELEVATION



SECTION C-C



SECTION D-D

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No. 62-2143

USR 62 NB Over RELOCATED

MASON RUN

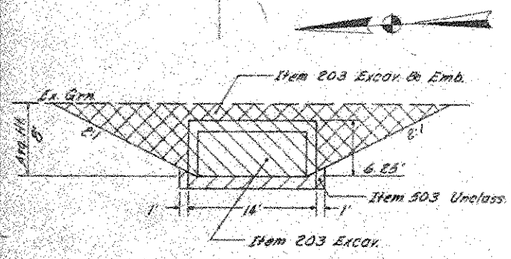
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
SAS			RVDG		

BOX CULVERT STA. 1131+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83

2-12-73
Existing Box Size
28' Long x 14' wide x 4' high



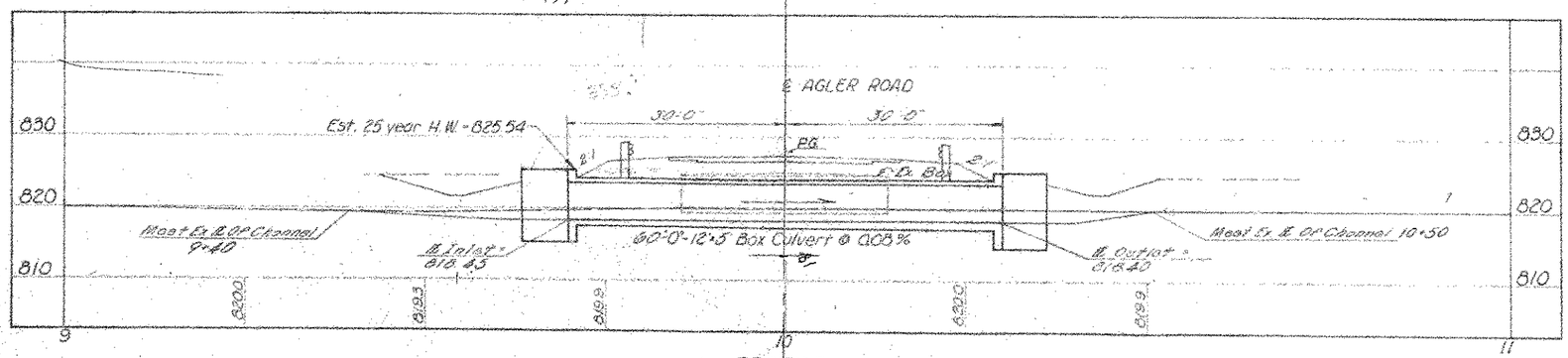
CONCRETE CLASS "C" CALCULATIONS

Barrel (For calculations See Sheet Nº 254)
End Area = 48.25 S.F.
Volume = 60 x 48.25 ÷ 27 = 107.23 C.Y.

Wingwalls (For calculations See Sheet Nº 254)
Volume = 59.45 - (17 x 22.8125 ÷ 27) x 4 = 35.79 C.Y.

Total Concrete = 143.02 C.Y.

SEE CHK ORDER



ESTIMATED QUANTITIES

503	Unclassified Excavation	137 C.Y.
509	Reinforcing Steel	18,837 Lbs.
511	Concrete (Class "C")	143.0 C.Y.
203	Embankment	306 C.Y.
203	Excavation (Not including embankment construction)	208 C.Y.

NOTE

1. For item 202 Existing Structure Removed, See Sheet 234

Drainage Area = 726 a. = 1.14 sq. mi.
Soil Factor = 1.0
Mean annual flood (cfs/sq.mi) = 88

10 year frequency (0.85 x 251)	= 213 cfs
20 year frequency (2.5 x 88 x 1.14)	= 251 cfs
50 year frequency (2.9 x 88 x 1.14)	= 291 cfs
25 year frequency	= 262 cfs
V-25	= 5 fps

PROPOSED STRUCTURE

TYPE: 12' x 5' Reinforced Concrete Box Culvert
ROADWAY: 44'-0" f/f Guardrail
LOADING: HS 20-44
SKEW: None
ALIGNMENT: on Tangent
SUPERELEVATION: None
AVERAGE DAILY TRAFFIC: 6436 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

STRUCTURE NO. CR-16
BOX CULVERT STA. 19+25

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RBF	RLB		SHS	RF	5/16-30	

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

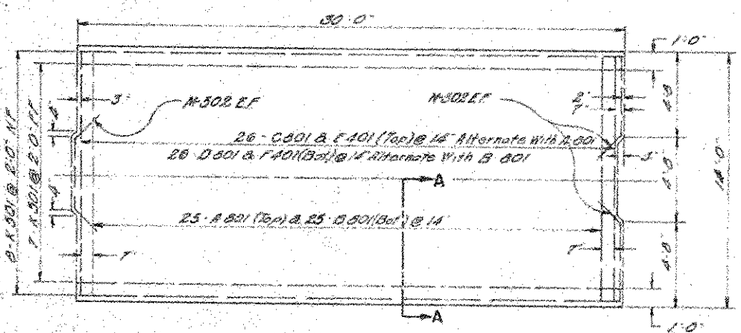
FRANKLIN COUNTY
FRA. 270-25.39 N
FRA. 62-20.83

REINFORCING STEEL

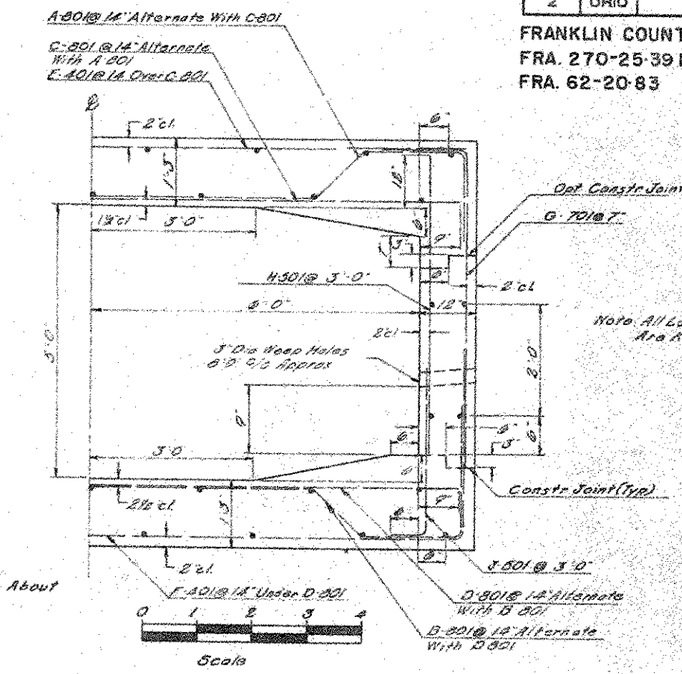
MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A 801	50	17'-3"	1	15'-0"	1'-11½"	10'-8"	5'-0"	1'-8"	2303
B 801	30	20'-11"	1	15'-8"	2'-5"	9'-2"	8'-0"	3'-8"	2793
C 801	38	15'-8"	Str.						1875
D 801	38	15'-8"	Str.						1875
E 801	38	15'-8"	Str.						449
F 401	32	18'-7"	3	2'-7"	15'-2"	8'-7"			940
G 701	204	7'-2"	3	0"	3'-10"	1'-8"			2939
H 301	110	5'-8"	Str.						230
J 301	40	3'-8½"	3	0	3'-2"	0"			155
K 301	76	22'-8"	Str.						2352
M 302	2	4'-00"	2	1'-6"	1'-10"	1'-6"			21
M 302	4	7'-0"	2	1'-6"	4'-0"	1'-6"			30
N 301	8	3'-4"	2	1'-6"	1'-10"	0"			26
N 302	8	5'-6"	2	1'-6"	4'-0"	0"			46
P 301	56	3'-6"	2	1'-0"	0"	1'-0"			205
P 302	4	13'-3"	3rr						37
P 303	14	4'-6"	3	1'-11"	11"	1'-11"			60
P 502	8	13'-0"	Str.						114
P 303	14	7'-10"	3	3'-7"	11"	3'-7"			115
R 301	18	7'-10"	Str.						131
R 302	8	(2)	Str.						35
R 801	32	9'-5"	3	1'-8"	10"	0"			805
R 802	10	(3)							257
S 301	40	10'10"	Str.						452
T 301	56	7'-8"	Str.						450
T 502	32	(1)	Str.						330
		Totals							18837

REPLACEMENT BARS

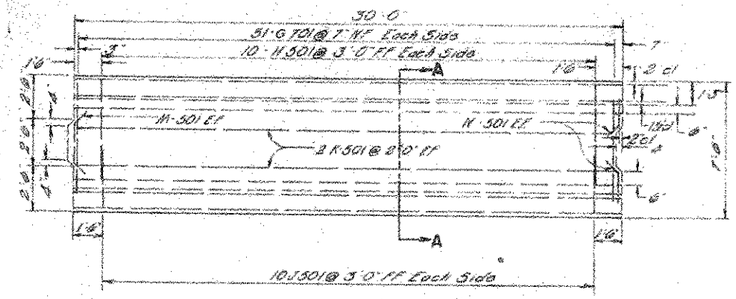
MARK	NO	LENGTH	TYPE
RF 801	1	6'-8"	Str.
RF 501	1	6'-7"	Str.
RF 701	1	7'-2"	Str.
RF 601	1	7'-0"	Str.



PLAN VIEW INTERIOR PANEL

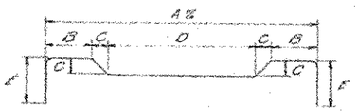


SECTION A-A



ELEVATION INTERIOR PANEL





TYPE 1



TYPE 2



TYPE 3

LEGEND

- C F ——— Each Face
- N F ——— Near Face
- F F ——— For Face
- O/O ——— Out To Out
- (1) 8 Sets Of 2 Bars ——— Varies From 8'-6" To 11'-3"
- (2) 4 Sets Of 2 Bars ——— Varies From 5'-5" To 7'-0"
- (3) 4 Sets Of 2 Bars ——— Varies From 4'-6" To 7'-6"

Notes

BAR SIZE: The Bar Size Is Indicated In The Bar Mark The First Digit Indicates The Bar Size No. For Example: A 801 Is a No 8 Size Bar.

FOUNDATION MATERIAL: Of Approximately Uniform Bearing Capacity Is Contemplated. Spots Of Soft Earth Shall Be Removed And Replaced With Thoroughly Compacted Granular Material.

EMBANKMENT: Shall Be Placed Symmetrically On Both Sides Of The Culvert. After The Top Slab Is In Place. Embankment Over The Barrel Shall Be Placed In Horizontal Layers Simultaneously With That On Each Side Of Culvert.

UNIT STRESSES: Maximum Unit Design Stresses Are As Follows: Fs = 20 000 lb. Per Sq In., Fc = 1800 lb. Per Sq In., N = 10, U = 300 lb. Per Sq In., V = 90 lb. Per Sq In.

MAXIMUM: Allowable Soil Pressure 1.5 Tons Per Sq Ft.

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No. CR. 16

AGLER ROAD Over MASON RUN

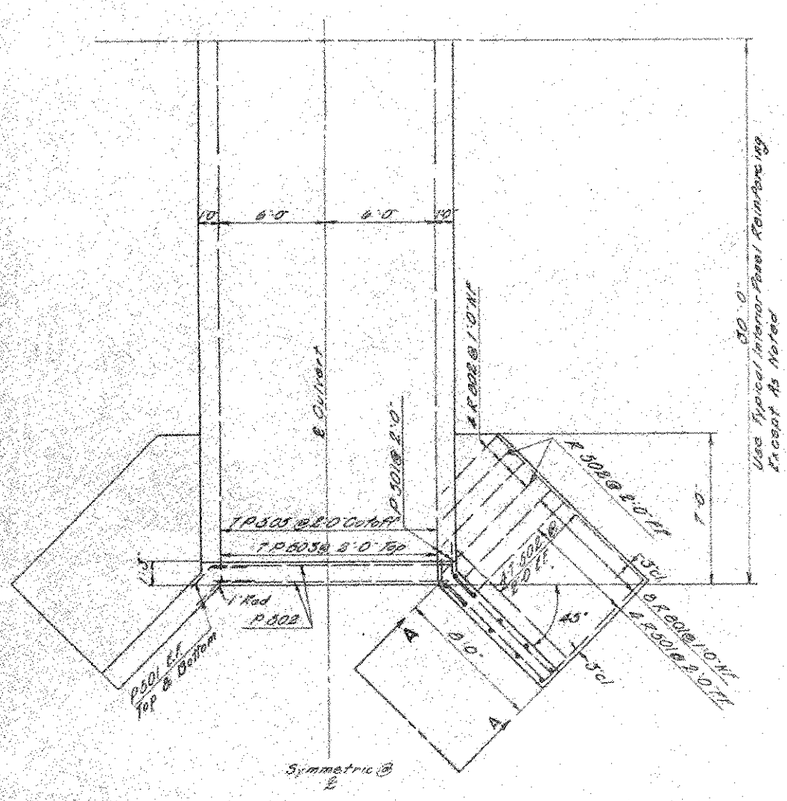
DESIGNED	DETAILED	TRACED	CHECKED	APPROVED	DATE	REVISED
WDG	WDG		SAS	SAS	9/10/70	

BOX CULVERT STA. 191+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

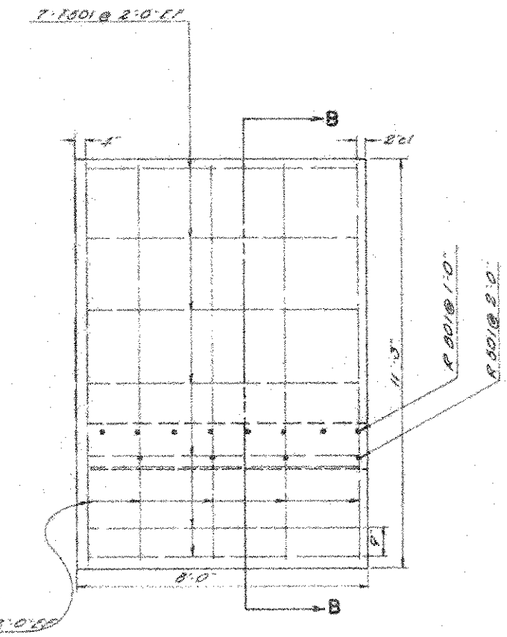
268

FRANKLIN COUNTY
FRA. 270-25.39 N
FRA. 62-20.83



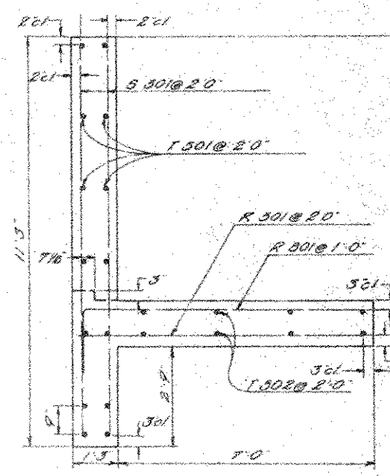
PLAN
(Inlet or Outlet)

0' 2' 4'
Scale

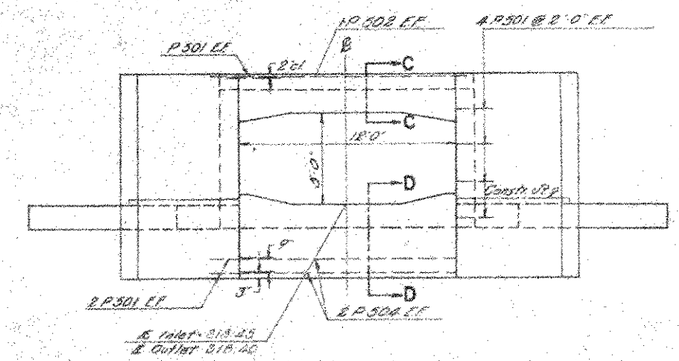


SECTION A-A

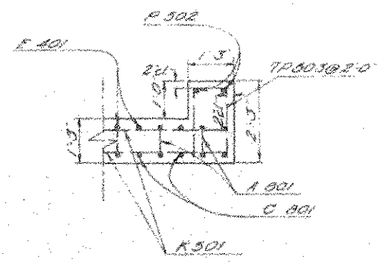
0' 2' 4'
Scale



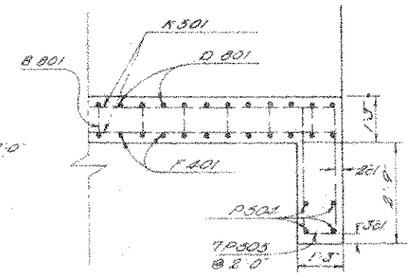
SECTION B-B



ELEVATION



SECTION C-C



SECTION D-D

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

STRUCTURE No CR 16

AGLER ROAD Over MASON RUN

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
LDC	SP		JAS	JE	4/21/71	

BOX CULVERT STA 19+25

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83N

GENERAL NOTES

MATERIALS GENERAL

Materials to be furnished may be specified in the plans by a given manufacturer's catalog number or type. This is for descriptive purposes only and the Contractor may assume that approved equal materials may be furnished.

816 CONCRETE FOUNDATIONS, FOR SIGN SUPPORTS

Payment for this item shall be based on plan dimensions (or dimensions as modified by the Engineer in lieu of plan quantities) as required in Supplemental Specification 816.

Payment for reinforcing steel and installation only of conduit ells shall be included in the cost of concrete foundations for overhead sign supports. Concrete shall be Class "C".

Basis of Payment shall be as follows:

1. Concrete for overhead sign support foundations, per cubic yard.

2. Concrete for ground mounted sign support foundations, per cubic yard.

815 SIGN ERECTION, EXTRUSHEET OR FLAT SHEET TYPE

The Contractor shall erect sign panels as indicated on the schematic signing plan sheet number (s) 6 THRU 8 The panels will be furnished by others and shall be mounted on the brackets or beam supports provided in the plans.

All sign material and accessories will be furnished and transported by others to a delivery point designated by the Contractor on or near the subject project. The Contractor shall be responsible for the handling, protection and storage of the sign panels and accessories from the time of unloading by others at the delivery point.

Large guide signs (over 8 feet in height) may be delivered unassembled. Work shall also consist of assembly of these panels including attachment of demountable sign legend, where necessary, and erection of signs in conformance with the schematic sign plan.

The Contractor shall submit, in three copies, a schedule for sign erection to the Engineer at least 120 calendar days prior to the start of any scheduled erection work. The schedule shall include proposed dates, sign numbers, and delivery point. The Engineer will furnish copies of the schedule to the Division Traffic Engineer and to the Engineer of Design Services, 25 South Front Street, Columbus, Ohio 43215.

The price bid per square foot for "Item 815, Sign Erection, By Type", shall include payment for all necessary equipment, labor, and tools to store, assemble, and erect the signs as specified.

816 ROCK EXCAVATION

Where solid rock is encountered in excavation for sign support foundations, the depth to be excavated below rock surface may be decreased as directed by the Engineer to a maximum of thirty-five (35) percent of depth specified in the Plans.

EXISTING SIGNS

Existing signs located within the roadwork areas which are necessary for interim or permanent traffic control shall be removed and re-erected in locations indicated by the plans or as approved by the Engineer. Stop signs will be maintained at all times while traffic is maintained. The cost of removal, re-erection and subsequent removal if required shall be considered a subsidiary work item, the cost of which shall be included in the price bid for the roadway work items. The signs which are to be re-erected on the berms shall be located with the center line of support on the P.I. of the shoulder.

SIGN LOCATIONS

All signs shall be placed normal to the roadway on which they are stationed unless otherwise noted on the plans.

816 STRUCTURAL SUPPORTS, STEEL BEAM (TYPE)

The structural steel beam supports including 8 and 6 pound beams, 4 pound drive post and hardware shall be galvanized in accordance with ASTM A-123 and A-153 respectively.

Quantities for Item 816 "Structural Supports, Steel Beam (Type)", appearing in the quantity tables are approximate. The Contractor shall be responsible for determining exact support lengths prior to fabrication and galvanising of supports. Payment shall be at the contract unit price bid per lineal foot which price and payment shall include all costs in connection with the embedment of the supports.

The Cost of the concrete used for embedment will be a separate pay item.

816 OVERHEAD SIGN SUPPORT, BY TYPE

All component parts of the overhead sign supports shall be steel, except for the truss and components for the Number 7 series which shall be aluminum. For specific details and materials, see sheet numbers 17 through 22 .

Cost of furnishing and installing the sign brackets and the fixture support arm, length "G", with mounting holes and hardware shall be included in the contract unit price bid for overhead sign supports.

Modifying Supplemental Specification 816 switch enclosure mounting brackets including mounting bolts and drilled holes shall be furnished and installed under payment for 816 overhead sign support structures at the contract price per overhead sign support, by type.

Payment for this item shall be made at the contract unit price bid for each overhead sign support, by type, installed in place and accepted, which price shall be full compensation for furnishing all anchor bolts, 2" and 3/4" EMT conduit ells (for installation under 816 concrete for overhead sign support foundations), and for furnishing and installing each overhead sign support structure shown on sheets 9 thru 11 including fixture support arms, switch enclosure mounting bracket, sign brackets and all component parts necessary to make a complete workable installation ready for sign erection, installation of disconnect switch and enclosure, ground rod and wire connections and sign wiring.

Erection of these supports shall be accomplished in a manner meeting the requirements of Supplemental Specification 816.

ELECTRICAL - GENERAL

This item shall consist of furnishing all necessary material, labor and facilities required to complete the electrical installation in accordance with the designs, dimensions and details shown in the plans and described in the specifications.

All material, workmanship and construction methods, except as modified herein, shall conform to the general requirements of the State of Ohio, Department of Highways, Construction and Materials Specifications, January 1, 1969.

625 SIGN SERVICE

This item shall consist of the completion of the electrical system and components from the connectors in the pull box (included within the roadway lighting quantities) to the primary side of the disconnect switch.

Work will include the furnishing and installing (including trenching and backfilling) of the 2 inch galvanized steel conduit and couplings from the pull box to the conduit ell in the sign support foundation.

This item will also include the furnishing and installing of the 1/C 600 volt service wire from the connectors to the disconnect switch.

Basis of payment for this item shall be at contract unit price per each, which shall include all labor, material and equipment required to complete this item of work.

625 WIRE AND CABLE

Wire and cable installation shall conform to Section 625.14 of the construction and materials specifications and shall be of the sizes and types shown on the plans.

Wire or cable installed in conduit on or with sign structures shall be #10 RHW, 600 volt standard copper wire (pole and bracket cable).

Cable installed underground leading from the pull box to the disconnect switch shall be #4 or #6 single conductor circuit cable.

625 DISCONNECT SWITCH WITH TYPE "Y" OR "Z" ENCLOSURE

This item shall include furnishing a 30 amp. 600 volt fused disconnect switch of type and make as indicated on sheet 27 and shall be mounted in a NEMA 4 stainless steel enclosure Type "Y" or "Z" and attached to each sign support by means of a mounting bracket as described in detail on the above sheet.

Each switch enclosure shall be furnished with one padlock. Padlocks shall have a brass body and wrought iron shackle equal to Russwin No. 2882 KA or Master No. 4 KA or approved equal.

Basis of payment for this item shall be per each at contract unit price, which shall include all labor, material, and equipment to complete this item of work.

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

GENERAL NOTES

625 TRANSFORMER, BY TYPE

This item of work shall consist of furnishing and installing transformers as detailed and specified on sheet 27

Basis of payment for this item shall be a contract unit price per each, which shall include all labor, material and equipment required for this complete item of work.

625 BALLAST, BY TYPE

Ballast for fixtures shall be weather-proof outdoor type for a 120 volt 60 cycle system and shall provide lamp starting at an ambient temperature of -20 degrees F.

This item of work shall consist of furnishing all ballast types A through D as detailed and specified on sheet 26

Basis of payment for this item shall be at contract unit price per each, furnished to the job for installation under Item 625, "Signs Wired, Complete".

625 LIGHT FIXTURE WITH LAMP, BY TYPE AND SIZE

This item of work shall consist of furnishing all light fixtures and lamps, types and sizes as specified on sheet 26.

Basis of payment for this item shall be at contract unit price per each, furnished to the job for installation under Item 625,"Signs Wired, Complete."

625 GROUND RODS

This item of work shall consist of furnishing and installing ground rod and cable as detailed and specified on sheet 27

Basis of payment for this item shall be at contract unit price per each, which shall include all labor, materials and equipment required to complete this item of work.

625 SIGNS WIRED, COMPLETE

This item shall consist of the completion of the electrical sign lighting system for each illuminated sign.

Work shall include installation of light fixtures and ballasts, and furnishing and installation of all rigid and flexible conduit, conduits, junction boxes, cable, fasteners, hardware, and all other items required to energize the sign lighting system. See details on sheets 25 & 26

The cost of furnishing and installing cable, cable grips, cable splice units, and necessary fasteners from the disconnect switch to the signs (or between signs) within sign support members shall be included in this item of work.

Basis of payment shall be at the contract unit price per each sign wired which price shall include all labor, materials, tools, equipment, and other incidentals to provide a complete and accepted item of work.

625 INSPECTION AND TESTING OF SIGN LIGHTING

The Contractor shall furnish all labor, electrical power, and equipment necessary to demonstrate to the Engineer that no short circuits and unspecified grounds exist and that the sign circuits are properly connected and operable prior to acceptance.

This demonstration shall include a meggaring test to show that the power conductors are not grounded and that the resistance to ground for the ground conductor is not more than 25 ohms. Where resistance exceeds 25 ohms, additional length and/or numbers of rods shall be installed per requirements of 625.10.

A voltage and amperage measurement shall be made at the sign support switch.

Where a low voltage tap transformer is used the voltage measurement shall be used to determine the applicable tap.

After the sign lighting system is completed, the entire system shall be operated continuously each night until seven (7) consecutive days elapse without failure or defect. The Contractor shall record and subsequently correct any defects which may develop at no extra cost to the State.

During the test period, adjustments to fixture aiming angles shall be made to obtain maximum uniformity as directed by the Engineer.

The above measurements, voltage tap selection notations, and methods of defect correction shall be recorded and delivered to the Engineer for inclusion in the project records.

Inspection and testing of the sign lighting system shall be considered a subsidary work item and payment therefer shall be included in the unit prices bid for the respective items tested.

CERTIFICATION AND APPROVAL OF SIGN SUPPORT & SIGN LIGHTING ITEMS

The Contractor shall submit through proper channels the drawings, information, and samples as required below:

A. 8 copies of shop drawings and material lists for approval:

1. Overhead Sign Supports
2. Sign lighting layout plan and details for wiring, conduit size and placement from sign disconnect switch to fixture.

B. 8 copies of catalog cuts descriptions of samples of fabricators standard items as shown in the plans or their equals for approval of their use.

C. Certification and/or samples for all material which have been approved above under "A" or "B".

D. Approval of items under "A" and "B" shall be in the hand of the Contractor prior to any purchase or installation.

E. Certifications of samples under "C" must be in hand and approved prior to contract completion.

816 ALTERNATE DESIGNS FOR OVERHEAD SIGN SUPPORTS

If the Contractor desires to furnish an alternate design for overhead sign supports, the alternate designs must be submitted to the State at least 21 days prior to opening of bids. The Bidder will be notified as to acceptance or rejection of alternate design at least 7 days before bids are to be opened. Alternate designs must utilize tubular structural members. Submissions shall be made to Ohio Department of Highways, Office of Design Services, 25 South Front Street, Columbus, Ohio 43215.

ERECTION OF OVERHEAD SPAN TYPE SIGN SUPPORTS (7 SERIES)

In all cases, span type overhead sign supports and signs shall be erected concurrently. At no time shall the box trusses be erected without the sign being in place within eight (8) hours.

620 DELINEATORS, AS PER PLAN

The Contractor shall have the option of driving or concrete embedding the delineator post in accordance with details of sheet 34

Posts may be trimmed on the embedded ends to adjust for grade and required delineator mounting height. Concrete shall be Class "C". This method shall be used when rock is encountered.

In either case, the Contractor shall be responsible for damage to underground utilities or cable during performance of this item of work.

The quantity furnished and installed shall be paid for at the price bid per each which price shall be full compensation for either type of installation.

816 CONSTRUCTION LAYOUT STAKES FOR SIGNS

The Contractor shall stake out all sign supports in accordance with supplemental specification 816 prior to installation of any foundations or supports.

After stakeout the Contractor shall notify the Engineer a minimum of seven (7) days in advance of scheduled work. Support locations for each support will be field checked and approved by the Engineer who shall coordinate with the Division and/or City Traffic Engineer prior to proceeding with construction work required.

If both major and minor type supports are included within the project it will be permissible to perform the construction stake-out and field inspection in two (2) stages, one for major supports and one for minor supports.

Cost for this item of work will be incidental to the various 816 items of work contained in the project.

816 OVERHEAD SIGN SUPPORT FABRICATION

In lieu of plan details the following are fabrication requirements for supports in this project:

All handholes fabricated for supports shall be 4" x 8" in size with face flush with pole exterior at the required locations described in plans.

GENERAL NOTES

816 OVERHEAD SIGN AND TRAFFIC SIGNAL SUPPORT FABRICATION (Continued)

The electrical service entry through each vertical sign support pole shall be provided by means of a two inch (2") half-coupling centered at a height of 5'-0" above the bottom of the base plate.

The type "Y or "Z" disconnect switch enclosure shall be mounted in such a manner that the bottom of the enclosure will be 4'-9½" (2½") above bottom of base plate.

Payment for the fabrication requirement specified above shall be incidental to the cost of each support structure.

MARKING OF CABLE

All cables shall be marked or tagged at all pull boxes, handholes, light poles, sign supports, signal supports, switches, and controllers with an approved tag, so as to be individually identified.

816 INTERIM STEEL DRIVE POSTS, 4 LBS. PER FOOT, AS PER PLAN

This work shall consist of furnishing and installing 4 pound per linear foot steel drive posts as specified for interim lane width transitions.

This item shall include 4 pounds per foot steel drive posts 11'-0" long bolted to the inside of interim barrels furnished under 606 using a minimum of three 5/16" steel bolts spaced on 12" centers.

Post flanges shall be 90 degrees to interim edge lines facing approaching traffic. Steel bearing plates 3" x 2" shall be used at each bolt outside the barrel to prevent pull through. Mounting of signs on the drive posts with the bottom of the signs 7' above the pavement shall be included in Item 815.

The quantity furnished and installed will be paid for at the price bid per linear foot which price shall be full compensation for furnishing and installing drive posts including necessary hardware, labor and equipment.

202 REMOVAL OF EXISTING SIGN INSTALLATIONS, AS PER PLAN

This work shall consist of the removal of all existing sign installations on main roadway, ramps and approach roadways within work limits of this project.

Work shall also include removal of sign supports and foundations as required in Section 202.

All signs, supports, and accessories removed shall be stored neatly within the limits of the project at locations approved by the Engineer for removal by State forces. This work shall include disposal of all waste material.

To assure maintenance of adequate traffic control at all times, no signs are to be removed without the approval of the Engineer.

Payment for removal of existing signs shall include all necessary labor and equipment required to perform the required work as indicated above.

202 REMOVAL OF EXISTING SIGN INSTALLATIONS, AS PER PLAN (Continued)

1) Basis of payment shall be as follows for signs forty (40) square feet or greater:

"Removal of existing major sign installations, as per plan" at the contract price per each.

2) Basis of payment shall be as follows for all other signs:

"Removal of existing sign installations, as per plan" at the contract lump sum price.

202 INTERIM GUARDRAIL, REMOVE

This work shall consist of the removal of existing temporary guardrail, barrels, signs, delineators, and posts.

All items removed shall become the property of the Contractor. This work shall include disposal of all waste material.

To assure maintenance of adequate traffic control at all times, no items are to be removed without the approval of the Engineer.

The quantity removed and stored will be paid for at the price bid per linear foot which price shall be full compensation for removal and storage or disposal of guardrail, barrels, signs, delineators, posts and cleaning and restoring pavement to original condition including all necessary labor and equipment.

620 INTERIM DELINEATORS, AS PER PLAN

This work shall consist of furnishing and installing interim delineators as specified on plan sheets.

This item shall include 2 pounds per foot steel drive posts 4'-0" long bolted to inside of interim barrels furnished under 606 using a minimum of three 5/16" steel bolts spaced on 12" centers. Post flanges shall be 90 degrees to interim edge lines facing approaching traffic. Type C2 delineators shall be mounted on the drive post flanges with the top of the delineator 4' above the pavement.

The quantity furnished and installed will be paid for at the price bid per each which price shall be full compensation for furnishing and installing drive posts and delineators including necessary hardware, labor and equipment.

ITEM 606 TEMPORARY GUARD RAIL

Steel 55 gallon drums spaced at 12'-6" centers shall be used in lieu of posts for this item. The drums shall be painted yellow and shall be half filled with granular material in order to hold them in position. The rail elements shall be steel beam type meeting the requirements of either 710.06 (deep) or 710.07 (shallow), except that in lieu of furnishing new rail, used rail which is in good condition and approved by the Engineer may be used. The rail shall be placed on the traffic side of the drums with the center of the rail approximately 2 feet above the surface of the pavement or ground. The rail elements shall be securely bolted to the drums and reinforced by using 4" x 4" x 1/4" (minimum) plate washers on the inside of the drums in a manner satisfactory to the Engineer.

In addition to the painting requirements, two 4" bands of white reflectorized sheeting, Type E, shall be provided around the circumference of each barrel at the top and below the rail element.

INTERIM PAVEMENT MARKING, BY TYPE

This work shall consist of the furnishing and installation of interim removable markings as specified herein and shown on the plans.

1. Material

Material shall consist of a backing coated with a pressure-sensitive adhesive and a weather and traffic resistant reflective white or yellow colored surface and additional requirements as follows:

A. Reflection - The white and yellow striping material shall be reflex-reflective, reflecting white or yellow respectively and shall be readily visible when viewed with automobile headlights at night.

B. Adhesive - The striping material shall have a precoated pressure-sensitive adhesive which shall not require a liner for protection from contamination, preadhesion, or blocking within the roll as delivered.

C. Conformability - The striping material shall be thin, flexible, formable, and following application, shall remain conformed to the texture of the pavement surface.

D. Removability - The striping material backing shall permit removal without requiring sandblast, solvent or grinding methods.

E. Durability - The striping material applied in accordance with recommended procedures shall be weather resistant and show no appreciable fading, lifting or shrinkage, prior to completion of this project.

F. General - The striping material as supplied shall be of good appearance, free from cracks, and edges shall be true, straight and unbroken. The striping material shall be supplied in rolls and there shall be no more than 3 splices per 60 yards of length.

The striping material shall be prepared for delivery in standard commercial containers so constructed as to insure acceptance by the carrier and prevent damage during proper shipment and storage.

The Contractor shall store the material in a cool, dry location where temperature will not exceed 100 degrees F. prior to application of marking on roadway surfaces.

2. Road Surface Preparation

The road surface must be clean and dry, free of oils and grease, dust or dirt. All surfaces must be primed.

Method of priming shall be as required by the manufacturer and as approved by the Engineer. The Contractor shall submit a proposal for type of priming to be used. Cost for priming surfaces shall be incidental to the cost of various items included in Item 615, Temporary Roads, as per plan.

Concrete pavement shall be surface treated in accordance with Section 621.04. Surface shall then be generously flushed with clean water and allowed to dry thoroughly prior to application of primer and interim markings.

GENERAL NOTES

INTERIM PAVEMENT MARKING, BY TYPE (Continued)

3. Application

Interim lines shall be applied to the road surface with a roller type applicator and rolled immediately afterwards by rubber-tired roller with approximate single wheel load between one thousand (1000) and two thousand (2000) pounds.

4. Special Plan Details

Details for location of interim markings are shown on sign location plan sheets.

5. Basis of Payment

Cost of furnishing and installation of interim pavement marking shall be included at the contract unit price per linear foot.

UNDERGROUND UTILITIES

Extreme caution should be exercised in areas with underground electrical conduit or cable, sewers, drains, water lines, or other underground utilities.

The Contractor is fully responsible for all damage inflicted on (underground) utilities in the excavation and placement of sign support foundations, protective guardrail, delineators and the like.

815 INTERIM COVERING FOR SIGNS

This item shall consist of furnishing and installing an interim cover and attachment materials for signs so indicated in the plans or as directed by the Engineer. This item shall also include the subsequent removal of covers when directed by the Engineer.

Material for covering shall be plastic coated burlap blankets in conformance with 705.09.

The Engineer shall approve the method proposed for attaching interim covers to signs prior to installation of covers.

Work shall include all necessary material, hardware, labor, and equipment required to perform the required item of work.

Basis of payment shall be Interim Covering For Signs, per square foot.

816 STRUCTURAL SUPPORTS, DRIVEN, AS PER PLAN

All 6 pound beams to be placed in concrete medians shall be driven through a six inch diameter hole in the concrete to a depth of five feet below the surface. Supports shall be driven using a driving cap in such a manner that no deformation within the length of the support or damage to the support will occur.

Prior to installation each support shall be significantly marked with paint at a location on the support 5'-6" from the embedded end and approved by the Engineer.

The hole in the concrete shall be filled with asphalt or portland concrete after the post is in the proper position.

816 STRUCTURAL SUPPORTS, DRIVEN, AS PER PLAN (Continued)

Reference the TSP-1 Drawing, Sheet No. 30 of this plan.

Basis of payment for this item of work will be at the unit price per linear foot, which shall include all labor, tools and incidentals necessary to perform the required work.

COOPERATION - TRAFFIC SIGNAL DEVICES

A Separate contractor may be required to install or erect traffic signal divices within the work limits of this project prior to its completion.

The contractor shall cooperate with the Separate contractor, in accordance with 105.07, to arrange a suitable work schedule, subject to the approval of the Engineer, to permit the Separate contractor to work and operate necessary equipment within work limits to carry out the provisions of his contract.

Compensation for the above shall be included in the unit prices bid for the various pay items included within this construction project.

GENERAL SUMMARY — TRAFFIC CONTROL

FED. HIGHWAY DIVISION	STATE	PROJECT	
2	OHIO		

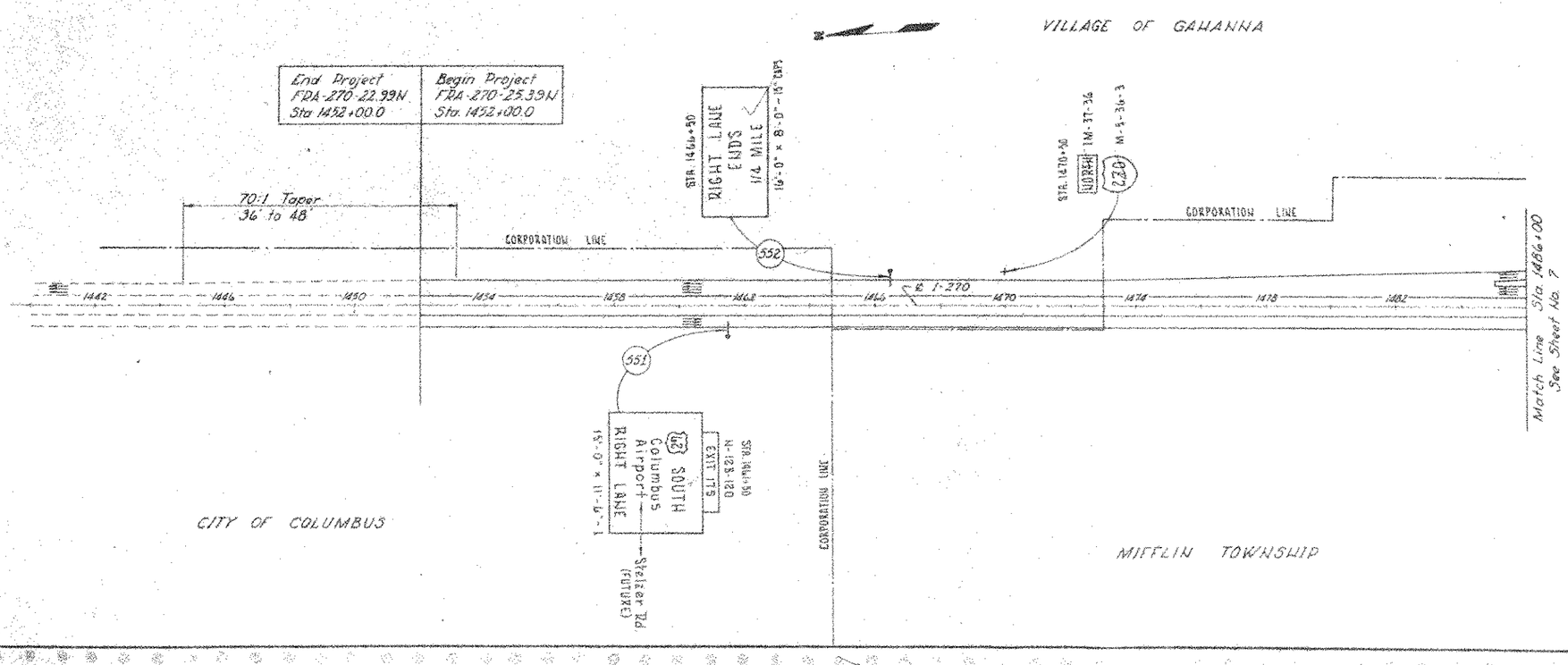
FRA-270-29.55N
FRA-62-20.83

* Code 7223 ** Code 6203

ROADWAY FROM SHEET No. 11	15	16	18	PARTICIPATION 100% STATE	I-270-511(8)117 URBAN *	I-270-511(8)117 RURAL *	XF 202(9)	XF 202(10)117 I-270-511(10)117 **	GRAND TOTAL	UNIT	ITEM	ITEM DESCRIPTION
	974.9		43.8			139.8	224.4	193.9	618.3	S.F.	815	SIGN ERECTION, FLAT SHEET TYPE
	3181.5				207.5	2398	616.0	256.5	3181.5	S.F.	815	SIGN ERECTION, EXTRUSHEET TYPE
	84.8						84		84	S.F.	815	INTERIM COVERING FOR SIGNS
			77				77		77	L.F.	814	INTERIM STEEL DRIVE POST 4#, AS PER PLAN
	241.5						241.5		241.5	L.F.	814	STRUCTURAL SUPPORT, 4# DRIVE POST
	359					147	188	147	335	L.F.	814	STRUCTURAL SUPPORT, 6" BEAM
	45						45		45	L.F.	814	STRUCTURAL SUPPORT, 6" BEAM DRIVEN, AS PER PLAN
	237.5					184	53.5	184	237.5	L.F.	814	STRUCTURAL SUPPORT, 8" BEAM
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.4 DESIGN 1 MODIFIED, 57'-0" SPAN
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.4 DESIGN 1 MODIFIED, 62'-0" SPAN
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.4 DESIGN 1, 66'-0" SPAN
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.4 DESIGN 1 MODIFIED, 69'-0" SPAN
	1						1		1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.4 DESIGN 1 MODIFIED, 74'-0" SPAN
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.6 DESIGN 4, 81'-0" SPAN
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 7.6 DESIGN 4, 89'-0" SPAN
	2						2		2	EA.	816	OVERHEAD SIGN SUPPORT No. 9.12 DESIGN 1 MODIFIED, 7'-0" ARM
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 12.24 DESIGN 8 MODIFIED, 15'-0" ARM
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 12.24 DESIGN 4 21'-0" ARM
	1						1		1	EA.	816	OVERHEAD SIGN SUPPORT No. 12.24 DESIGN 4 MODIFIED, 21'-0" ARM
	1					1		1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 12.24 DESIGN 4 MODIFIED, 32'-0" ARM
	1				1			1	1	EA.	816	OVERHEAD SIGN SUPPORT No. 12.84 DESIGN 6 MODIFIED, 20'-0" ARM
	1					1		1	1	EA.	816	OVERPASS STRUCTURE MOUNTED SIGN SUPPORT, Skewed
	6.5					2.5	4.0	2.5	6.5	C.Y.	816	CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS
	83.8				2.7	65.9	14.2	62.4	83.8	C.Y.	816	CONCRETE FOR OVERHEAD SIGN SUPPORT FOUNDATIONS
	6					2	4	2	6	EA.	625	BALLASTS, TYPE "A"
	5					4	1	4	5	EA.	625	BALLASTS, TYPE "B"
	2					1	1	1	2	EA.	625	BALLASTS, TYPE "C"
	14				1	12	1	13	14	EA.	625	BALLASTS, TYPE "D"
	14					8	6	8	14	EA.	625	72" FIXTURE WITH NO LAMP
	22				2	18	2	20	22	EA.	625	72" FIXTURE WITH 940 LAMP
	2					2		2	2	EA.	625	96" FIXTURE WITH NO LAMP
	8					7	1	7	8	EA.	625	96" FIXTURE WITH 940 LAMP
	3						3		3	EA.	625	TRANSFORMER, TYPE II
	5				1	4		5	5	EA.	625	TRANSFORMER, TYPE III
	4					3	1	3	4	EA.	625	TRANSFORMER, TYPE IV
	2					2		2	2	EA.	625	TRANSFORMER, TYPE V
	1					1		1	1	EA.	625	TRANSFORMER, TYPE VI
	8				1	4	3	5	8	EA.	625	DISCONNECT SWITCH WITH TYPE "Y" ENCLOSURE
	7					6	1	6	7	EA.	625	DISCONNECT SWITCH WITH TYPE "Z" ENCLOSURE
	14				1	9	4	10	14	EA.	625	GROUND ROD
	14				1	9	4	10	14	EA.	625	SIGN SERVICE
	1					1		1	1	EA.	625	SIGN SERVICE FOR STRUCTURE MOUNTED SIGN
	26				1	18	7	19	26	EA.	625	SIGNS WIRED, COMPLETE
	1					1		1	1	EA.	625	STRUCTURE MOUNTED SIGNS WIRED, COMPLETE
	2					2		2	2	EA.	625	SPECIAL DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKETS
	2						2		2	EA.	202	REMOVAL OF EXISTING MAJOR SIGN INSTALLATIONS, AS PER PLAN
	LUMP						LUMP		LUMP	LUMP	202	REMOVAL OF EXISTING SIGN INSTALLATIONS, AS PER PLAN
		1100					1100		1100	L.F.	202	INTERIM GUARD RAIL REMOVED
		1075					1075		1075	L.F.	606	TEMPORARY BEAM RAIL, as per plan
		7					7		7	EA.	638	INTERIM DELINEATORS, AS PER PLAN
119					14	54	49	70	119	EA.	620	DELINEATOR TYPE A-1, POST MOUNTED
2							2		2	EA.	620	DELINEATOR TYPE A-1, BRACKET MOUNTED
390						350	40	350	390	EA.	620	DELINEATOR TYPE C-2, POST MOUNTED
11						11		11	11	EA.	620	DELINEATOR TYPE C-2, BRACKET MOUNTED
	1070						1070		1070	L.F.	621	INTERIM EDGE LINE
	20.83				1.87	14.56	5.22	16.81	20.83	MI.	621	EDGE LINE, 4"
	2.66	0.15			0.03	1.57	1.21	1.57	2.81	MI.	621	4" LANE LINE
	2.27				2.27				2.27	MI.	621	4" LANE LINE
	6748	200			1030		4099	1853	6948	L.F.	621	CHANNELIZING LINE
	4218				293		3374	545	4218	L.F.	621	24" BROAD TRANSVERSE STRIPES
	2531						2266	265	2531	L.F.	621	CURB MARKING
	1100						1100		1100	S.F.	621	ISLAND MARKING
		1978				750	1228	750	1978	L.F.	621	BARRIER LINE
	4	8					12		12	EA.	621	LANE ARROWS
	166	119					286		286	L.F.	621	24" STOP LINE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

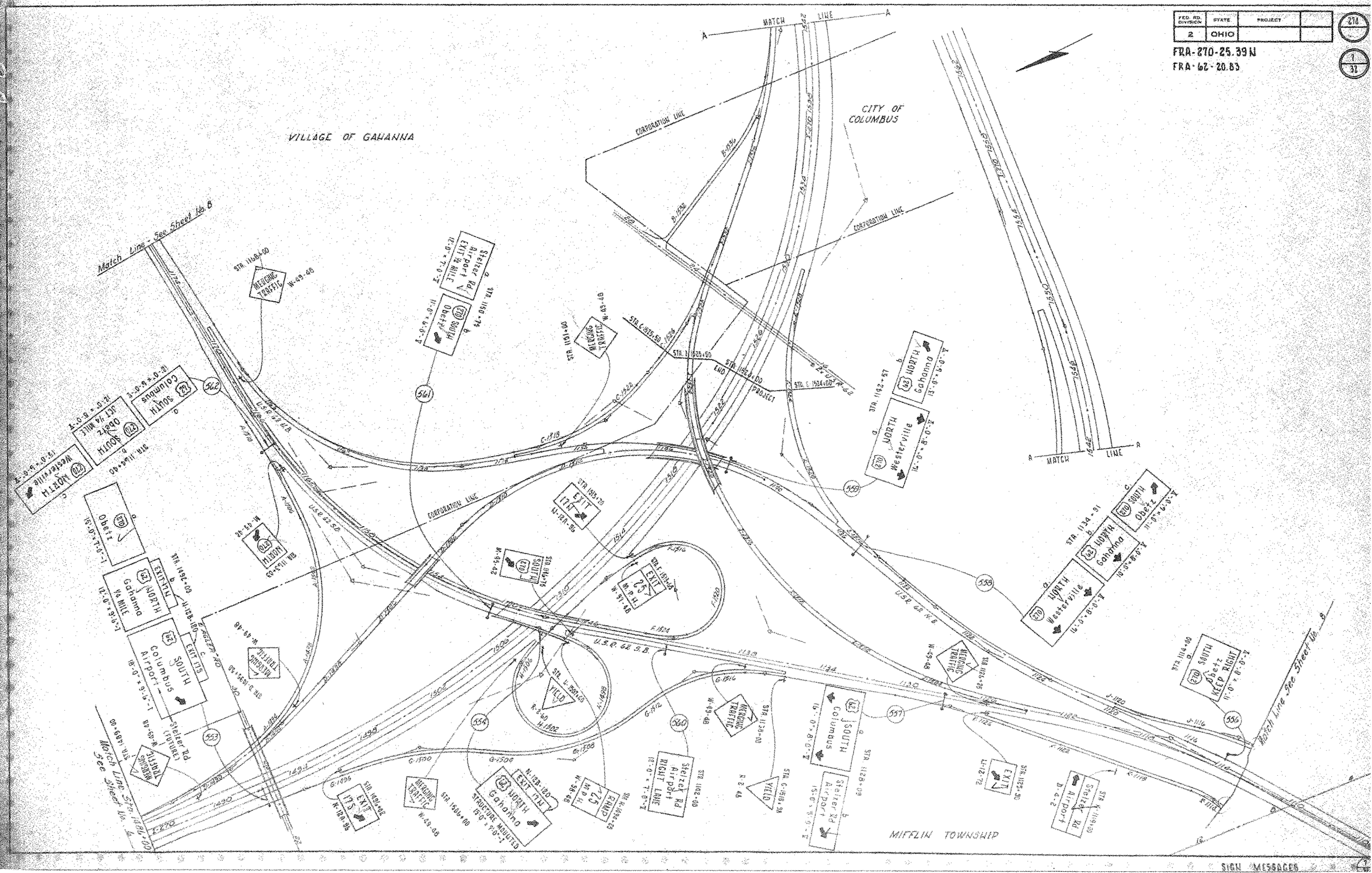
FRANKLIN COUNTY
FRA-270-25.39N



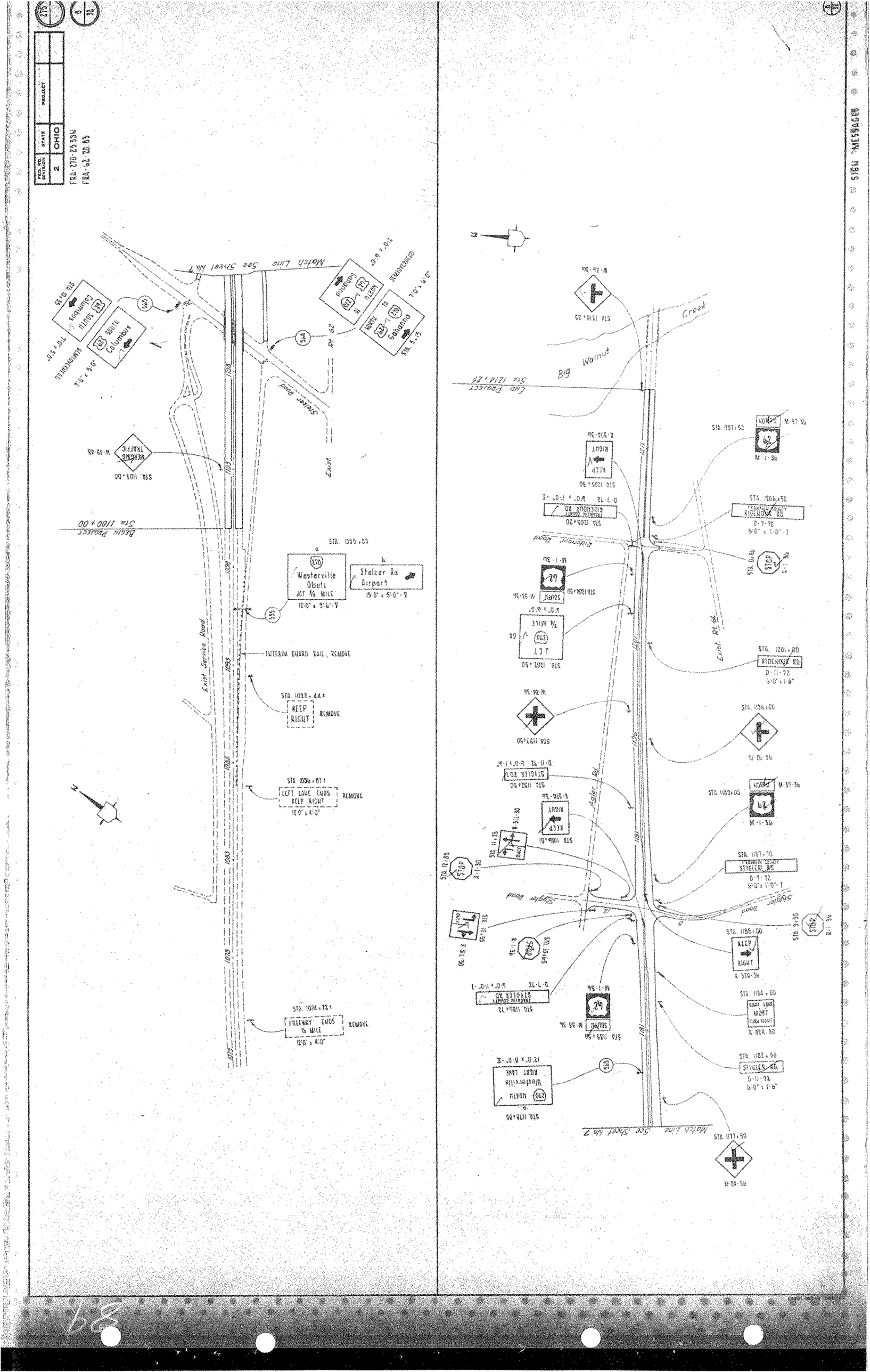
SIGN MESSAGES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-62-20.83



SIGN MESSAGES

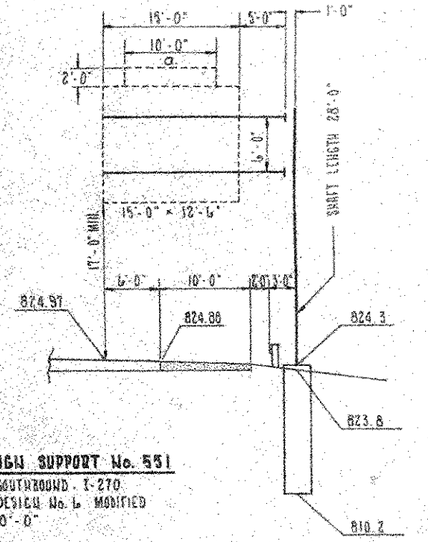

FED. RD. DIVISION 2
STATE OHIO
PROJECT
FRA-270-25.33N
FRA-42-20.83
SIGN MESSAGES
Match Line See Sheet No 1
Match Line See Sheet No 2
Begin Project Sta 1100+00
End Project Sta 1214+25
Big Walnut Creek
Exist Service Road
Shelter Road
Sidehill Road
Exist Rd 661
Exist
INTERIM GUARD RAIL, REMOVE
KEEP RIGHT
REMOVE
LEFT LANE ENDS KEEP RIGHT
FREEWAY ENDS ½ MILE
Westerville Obetz JCT ½ MILE
Shelzer Rd Airport
RIDGEWOOD RD
STYGLER RD
STOP
WORK
RIGHT LANE
SOUTH Columbus
NORTH Columbus
NORTH TO Columbus
NORTH TO Gahanna
SOUTH Columbus
SOUTH Columbus
WORK ZONE
MERGING TRAFFIC
SIDEWALK REMOVED
Sta 1100+00
Sta 1214+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 W / FRA-42 -20.83

276

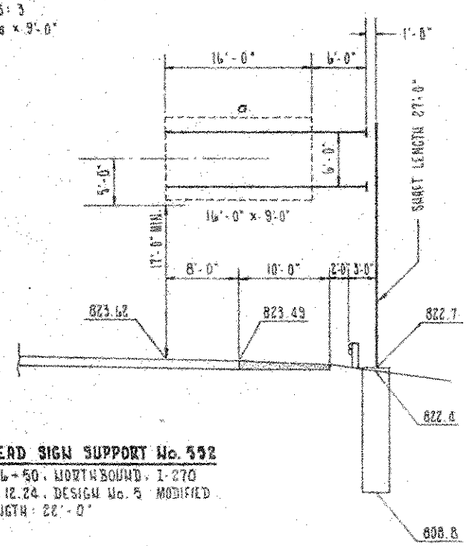
9
32



OVERHEAD SIGN SUPPORT No. 551
STR. 1461+50, SOUTHBOUND, I-270
BIL. No. 12.24, DESIGN No. 6 MODIFIED
ARM LENGTH: 20'-0"

SIGN a
BRACKET SPACING: 1'-2⅜", 3'-2", 3'-1⅜", 3'-2", 3'-1⅜", 1'-2⅜"
NUMBER OF BRACKETS: 5
TYPE & HEIGHT: Ys x 12'-6"

SIGN a
BRACKET SPACING: 8⅜", 6'-3⅜", 8'-3⅜", 8⅜"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ys x 9'-0"

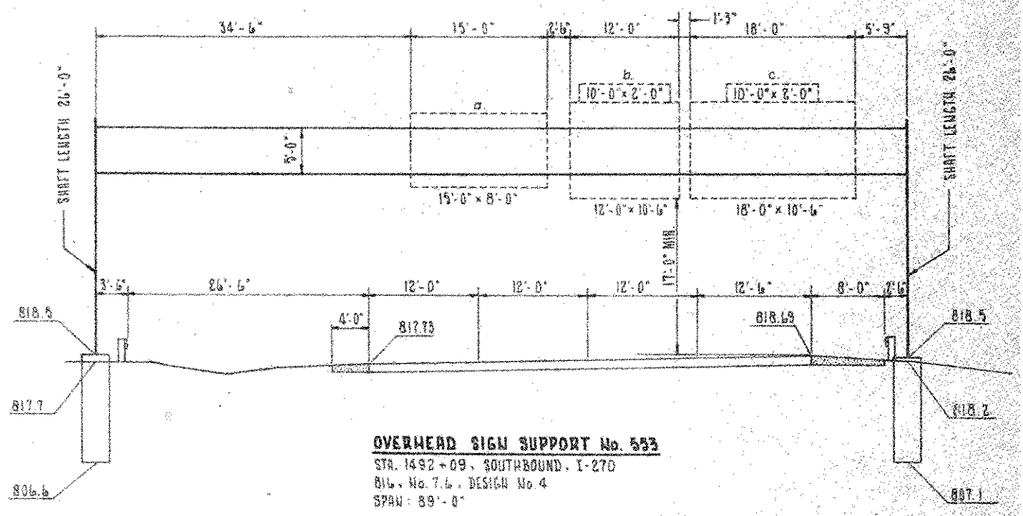


OVERHEAD SIGN SUPPORT No. 552
STR. 1466+50, NORTHBOUND, I-270
BIL. No. 12.24, DESIGN No. 5 MODIFIED
ARM LENGTH: 22'-0"

SIGN a
BRACKET SPACING: 1'-2⅜", 6'-3⅜", 6'-3⅜", 1'-2⅜"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya x 8'-0"

SIGN b
BRACKET SPACING: 6", 5'-6", 5'-6", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya x 10'-6"

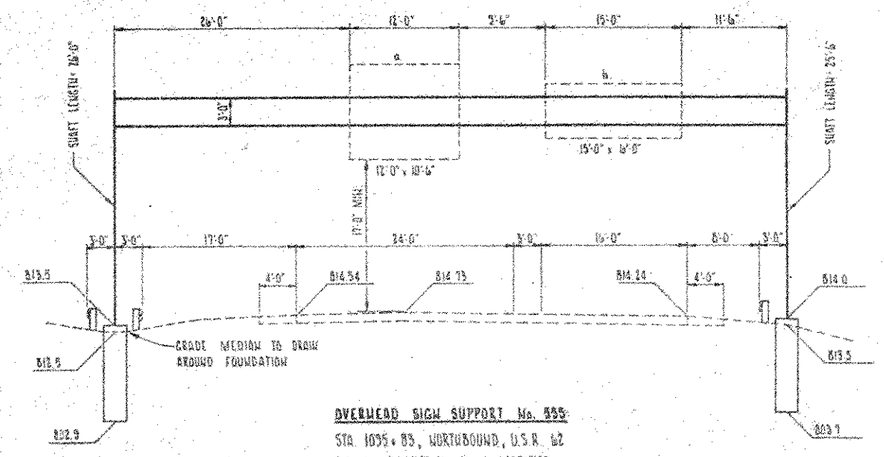
SIGN c
BRACKET SPACING: 8⅜", 4'-2", 4'-1⅜", 4'-2", 4'-1⅜", 8⅜"
NUMBER OF BRACKETS: 6
TYPE & HEIGHT: Ya x 10'-6"



OVERHEAD SIGN SUPPORT No. 553
STR. 1492+09, SOUTHBOUND, I-270
BIL. No. 7.6, DESIGN No 4
SPAN: 89'-0"

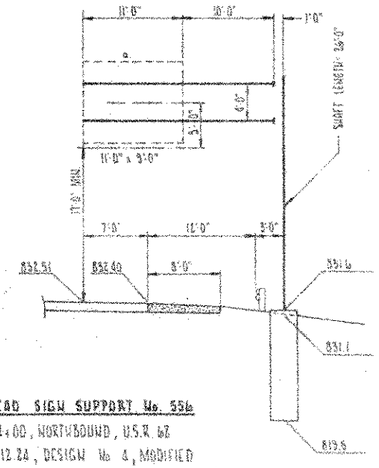
SIGN a
BRACKET SPACING: 6", 2'-9", 2'-9", 2'-9", 2'-9", 6"
NUMBER OF BRACKETS: 5
TYPE & HEIGHT: Ya x 10'-6"

SIGN "b"
BRACKET SPACING: 1'-2⅜", 6'-3⅜", 6'-3⅜", 1'-2⅜"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya x 6'-0"



OVERHEAD SIGN SUPPORT No. 555
STR. 1035+83, NORTHBOUND, U.S.R. 62
BIL. No. 7.4, DESIGN No. 1 MODIFIED
SPAN: 74'-0"

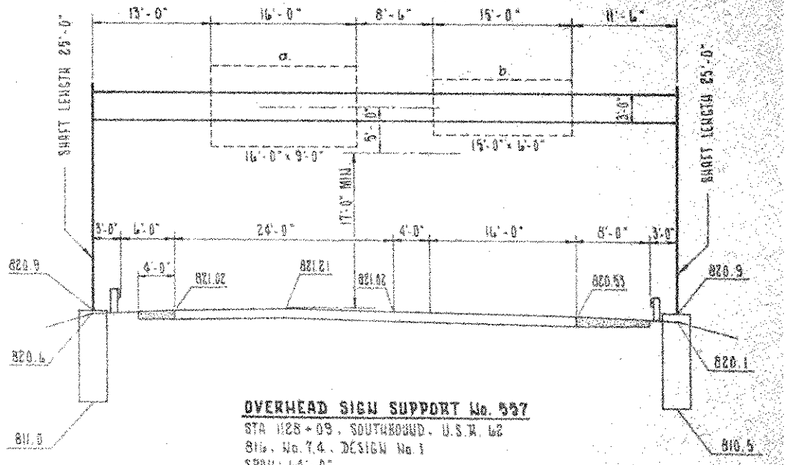
SIGN a
BRACKET SPACING: 1'-4⅜", 8'-0", 8'-0", 1'-4⅜"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ys x 9'-0"



OVERHEAD SIGN SUPPORT No. 556
STR. 1114+00, NORTHBOUND, U.S.R. 62
BIL. No 12.24, DESIGN No 4, MODIFIED
ARM LENGTH: 21'-0"

SIGN a
BRACKET SPACING: 8⅜", 6'-3⅜", 6'-3", 6'-3⅜", 8⅜"
NUMBER OF BRACKETS: 4
TYPE & HEIGHT: Ya x 9'-0"

SIGN b
BRACKET SPACING: 1'-2⅜", 6'-3⅜", 6'-3⅜", 1'-2⅜"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya x 6'-0"



OVERHEAD SIGN SUPPORT No. 557
STR. 1128+09, SOUTHBOUND, U.S.R. 62
BIL. No. 7.4, DESIGN No. 1
SPAN: 64'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-62-20.83

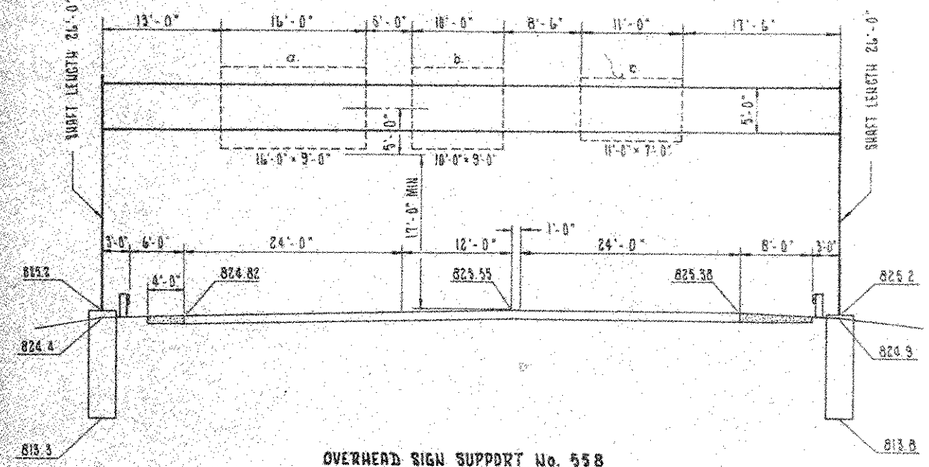
277

10
32

SIGN a.
BRACKET SPACING: 8⅝", 6'-3⅜", 6'-3⅜", 8⅝"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 9'-0"

SIGN b.
BRACKET SPACING: 10⅜", 8'-3⅜", 10¼"
NUMBER OF BRACKETS: 2
TYPE & HEIGHT: Ya × 9'-0"

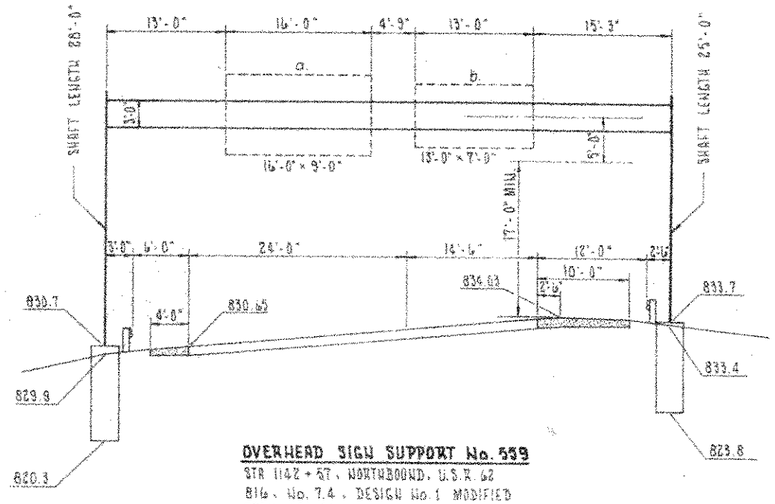
SIGN c.
BRACKET SPACING: 1'-4⅞", 8'-3⅜", 1'-0¾"
NUMBER OF BRACKETS: 2
TYPE & HEIGHT: Xa × 7'-0"



OVERHEAD SIGN SUPPORT No. 558
STA. 1134+91, NORTHBOUND, U.S.R. 62
816, No. 7.6, DESIGN No. 4
SPAN: 81'-0"

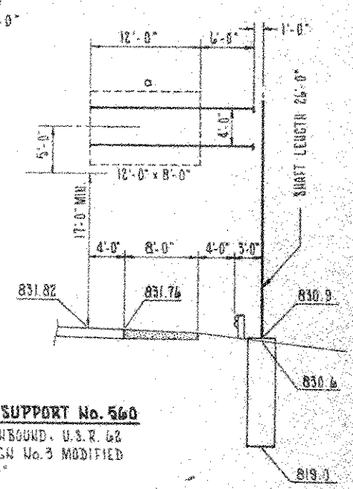
SIGN a.
BRACKET SPACING: 8⅜", 6'-3⅜", 4'-2", 4'-1⅜", 8⅜"
NUMBER OF BRACKETS: 4
TYPE & HEIGHT: Ya × 9'-0"

SIGN b.
BRACKET SPACING: 6", 6'-0", 6'-0", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 7'-0"



OVERHEAD SIGN SUPPORT No. 559
STA 1142+57, NORTHBOUND, U.S.R. 62
816, No. 7.4, DESIGN No. 1 MODIFIED
SPAN: 62'-0"

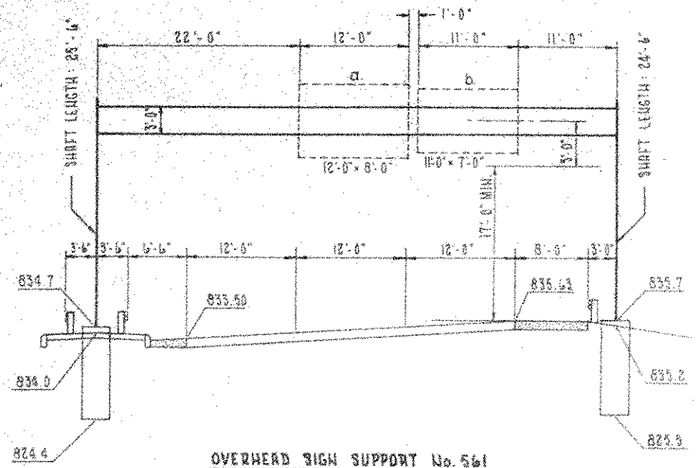
SIGN a.
BRACKET SPACING: 6", 5'-6", 5'-6", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Xs × 8'-0"



OVERHEAD SIGN SUPPORT No. 560
STA. 1142+00, SOUTHBOUND, U.S.R. 62
816, No. 12.24, DESIGN No. 3 MODIFIED
ARM LENGTH: 18'-0"

SIGN a.
BRACKET SPACING: 6", 5'-6", 5'-6", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 8'-0"

SIGN b.
BRACKET SPACING: 1'-4⅞", 4'-2", 4'-1⅜", 1'-4⅝"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 7'-0"

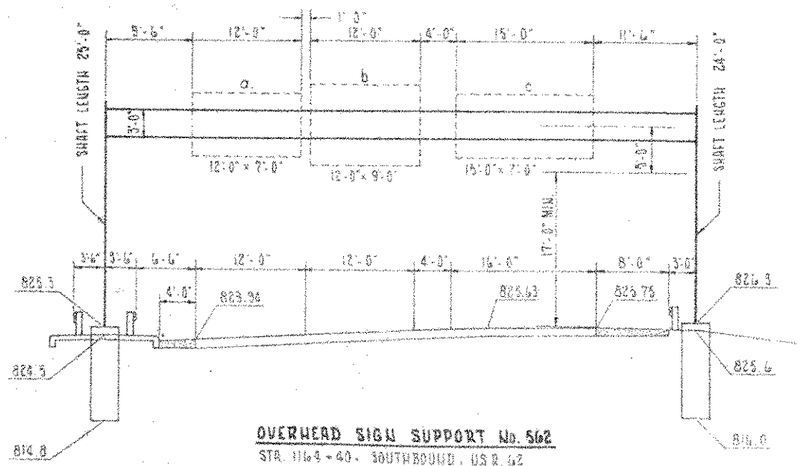


OVERHEAD SIGN SUPPORT No. 561
STA. 1150+75, SOUTHBOUND, U.S.R. 62
816, No. 7.4, DESIGN No. 1 MODIFIED
SPAN: 57'-0"

SIGN a.
BRACKET SPACING: 6", 5'-6", 5'-6", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 7'-0"

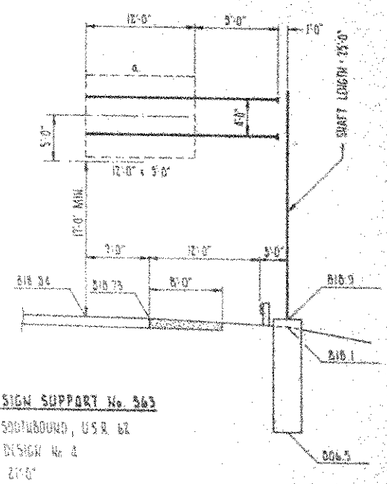
SIGN b.
BRACKET SPACING: 6", 5'-6", 5'-6", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 9'-0"

SIGN c.
BRACKET SPACING: 1'-2⅛", 4'-3⅜", 4'-3⅜", 1'-2⅛"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 7'-0"



OVERHEAD SIGN SUPPORT No. 562
STA. 1164+40, SOUTHBOUND, U.S.R. 62
816, No. 7.4, DESIGN No. 1 MODIFIED
SPAN: 65'-0"

SIGN a.
BRACKET SPACING: 6", 5'-6", 5'-6", 6"
NUMBER OF BRACKETS: 3
TYPE & HEIGHT: Ya × 9'-0"



OVERHEAD SIGN SUPPORT No. 563
STA. 1178+89, SOUTHBOUND, U.S.R. 62
816 No. 12.24 DESIGN No. 4
ARM LENGTH: 24'-0"

10
32

PARTICIPATION	ROADWAY OR RAMP	STATION TO STATION		SIDE *	INTERVAL	A-1 POST	A-1 BRACKET	C-2 POST	C-2 BRACKET
			I-270						
URBAN	S.B.	1453+75	1465+75	RT.	200'	7			
RURAL		1467+75	1485+75	RT.	200'	10			
		1487+75	1490+75	RT.	100'			4	
		1496+25	1506+25	RT.	200'	6			
		1508+45		RT.				1	
		1514+50	1519+50	RT.	100'			6	
RURAL	S.B.	1520+50	1522+50	RT.	200'	2			
RURAL	N.B.	1423+25	1483+25	RT.	200'	18			
		1484+55	1471+55	RT.	100'			14	
RURAL		1470+00	1468+00	RT.	200'	2			
URBAN	N.B.	1464+00	1454+00	RT.	200'	7			
			U.S.R. 62						
U-202	N.B.	1099+00	1107+00	RT.	200'	5			
		1109+00		RT.			1		
		1111+00	1117+00	RT.	200'	4			
U-202		1120+45	1128+45	RT.	100'			9	
RURAL		1129+45	1131+45	RT.	100'			3	
		1136+95	1142+55	RT.	80'			8	
		1143+35	1145+75	RT.	80'				4
		1146+55	1150+55	RT.	80'			6	
		1151+55		R/L				2	
		1152+15	1156+95	LT.	80'			7	
		1157+65	1167+45	LT.	70'			15	
		1168+15		L/R				2	
		1168+65	1170+25	RT.	70'			3	
RURAL		1171+00	1180+00	RT.	100'			9	
U-202		1181+00		RT.				1	
U-202	N.B.	1182+50	1212+50	RT.	200'	16			
U-202	S.B.	1212+75	1182+75	RT.	200'	16			
RURAL		1180+75	1172+75	RT.	200'	5			
		1171+25	1166+25	RT.	100'			6	
		1161+25	1155+75	RT.	200'	4			
		1154+25	1151+25	RT.	100'			4	
		1150+25		RT.					1
		1146+00	1138+80	RT.	200'	5			
		1133+05	1131+05	RT.	100'			3	
RURAL		1125+00	1119+00	RT.	200'	4			
U-202		1117+00	1113+00	RT.	200'	3			
		1111+00		RT.			1		
U-202	S.B.	1109+00	1101+00	RT.	200'	5			
			RAMP "A"						
RURAL	"A"	A-1509+75	A-1507+75	RT.	100'			3	
		A-1506+75		R/L				2	
		A-1505+75	A-1496+15	LT.	60'			17	
		A-1496+55		L/R				2	
RURAL	"A"	A-1494+95	A-1493+15	RT.	60'			4	
			RAMP "C"						
RURAL	"C"	C-1525+50	C-1523+10	LT.	80'			4	
RURAL	"C"	C-1522+50	C-1518+90	LT.	60'			7	
			RAMP "D"						
RURAL	"D"	D-1515+70	D-1508+00	RT.	70'			12	
		D-1507+00	D-1505+00	RT.	100'			2	
		D-1505+00	D-1504+60	RT.	100'				2
		D-1505+00	D-1496+00	RT.	100'			8	
RURAL	"D"	D-1492+55	D-1485+55	RT.	100'			8	
			RAMP "E"						
RURAL	"E"	E-1513+00	E-1515+00	RT.	100'			3	
		E-1515+80	E-1516+50	RT.	70'			2	
		E-1517+28		R/L				2	
RURAL	"E"	E-1517+98	E-1523+50	LT.	70'			9	

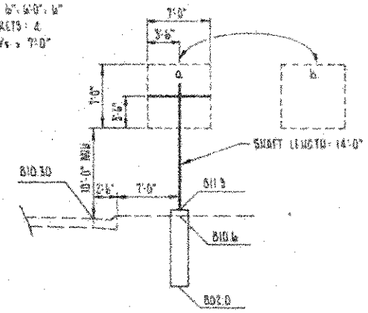
PARTICIPATION	ROADWAY OR RAMP	STATION TO STATION		SIDE *	INTERVAL	A-1 POST	A-1 BRACKET	C-2 POST	C-2 BRACKET
			RAMP "F"						
RURAL	"F"	F-1510+45	F-1513+45	RT.	100'			4	
		F-1514+05		R/L				2	
		F-1514+32	F-1524+04	LT.	30'			37	
	"F"	F-1524+91		L/R				2	
	US 62	1143+50	1145+50	RT.	100'			3	
		1146+50	1149+50	RT.	100'				4
RURAL	US 62	1150+50	1168+50	RT.	100'			19	
			RAMP "G"						
RURAL	"G"	G-1491+75	G-1495+75	RT.	100'			6	
		G-1496+55		R/L				2	
		G-1497+35	G-1505+75	LT.	80'			7	
		G-1508+95		L/R				2	
		G-1509+65	G-1510+75	RT.	40'			13	
		G-1511+35		R/L				2	
		G-1511+85	G-1516+85	LT.	50'			11	
		G-1517+35		L/R				2	
RURAL	"G"	G-1518+15	G-1518+95	RT.	80'			2	
			RAMP "H"						
RURAL	"H"	H-1491+75	H-1491+75	RT.	100'			3	
		H-1494+35		R/L				2	
		H-1494+95		LT.				1	
		H-1499+65	H-1506+08	LT.	30'			40	
		H-1506+35		L/R				2	
		H-1506+65	H-1507+85	RT.	40'			3	
RURAL	"H"	H-1508+44		RT.				1	
			RAMP "J"						
U-202	"J"	J-1110+05	J-1119+65	RT.	80'			13	
			RAMP "K"						
RURAL	"K"	K-1130+05	K-1126+05	RT.	100'			5	
U-202		K-1125+05	K-1116+05	RT.	100'			10	
		K-1115+35		R/L				2	
U-202	"K"	K-1114+95	K-1113+35	LT.	40'			5	

TOTAL I-270-5(18)117, URBAN	14	-	-
TOTAL I-270-5(18)117, RURAL	56	-	350	11
TOTAL U-202-5	49	2	60	-

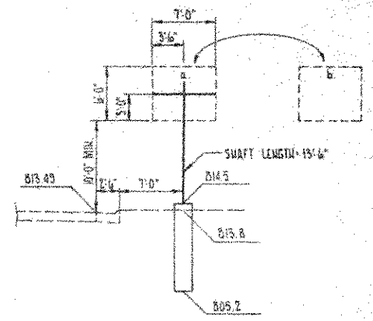
* DELINEATORS ARE TO BE PLACED ON THE RIGHT SIDE OF MAINLINE PAVEMENT WITH RESPECT TO THE DIRECTION OF TRAVEL ON RAMPS THEY ARE TO BE PLACED ON THE RIGHT AND/OR LEFT AS INDICATED WITH RESPECT TO THE DIRECTION OF TRAVEL SEE DELINEATOR DETAILS SHEET No. 51.

SIGNS a & b.
BRACKET SPACING: 6'-6", 6'-0", 6"
NUMBER OF BRACKETS: 4
TYPE 4 HEIGHT: Ys = 7'-0"

SIGNS a & b TO BE MOUNTED BACK TO BACK.



OVERHEAD SIGN SUPPORT No. 564
STA. 3+15, NORTHBOUND, STELZER ROAD
Bl6, No. 9.12, DESIGN No. 1 MODIFIED
ARM LENGTH = 7'-0"



SIGNS a & b TO BE MOUNTED BACK TO BACK.

SIGNS a & b
BRACKET SPACING: 6", 6'-0", 6"
NUMBER OF BRACKETS: 4
TYPE 4 HEIGHT: Ys = 6'-0"

OVERHEAD SIGN SUPPORT No. 565
STA. 10+35, SOUTHBOUND, STELZER ROAD
Bl6, No. 9.12, DESIGN No. 1 MODIFIED
ARM LENGTH = 7'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.59M
FRA-62-20.85

278

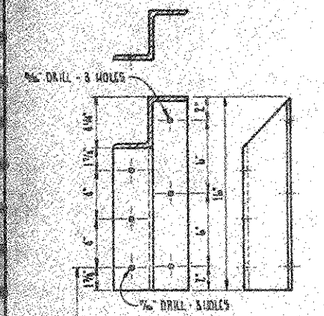
11
32

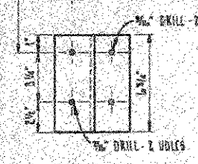
DELINEATOR SUB-SUMMARY AND OVERHEAD SIGN SUPPORT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

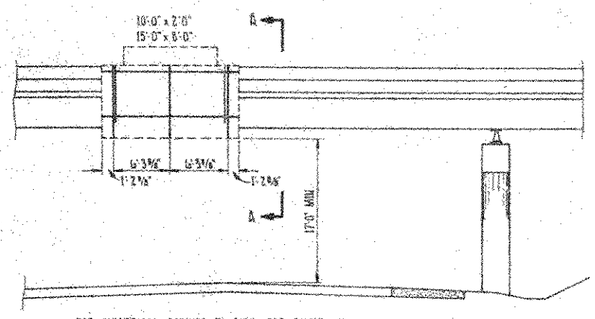
FRA-270-25.33M
FRA-62-20.85

Z BAR "A"
4" x 3½" x ⅜"
3 REQD.



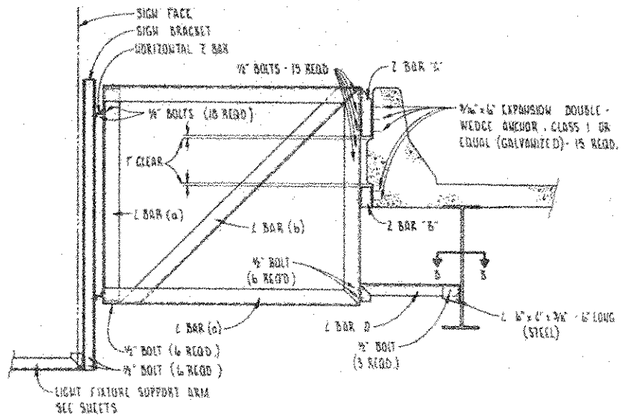


Z BAR "B"
4" x 3½" x ⅜"
3 REQD.

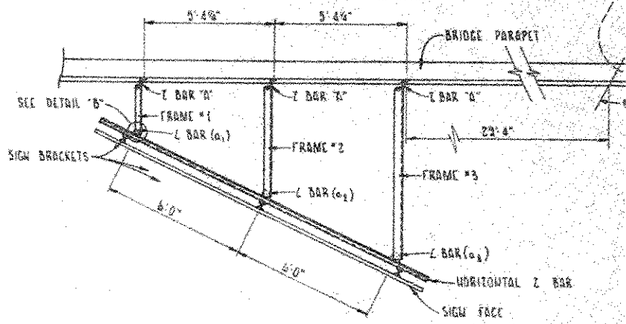


FOR ELECTRICAL SERVICE TO SIGN SEE SHEET 13 .

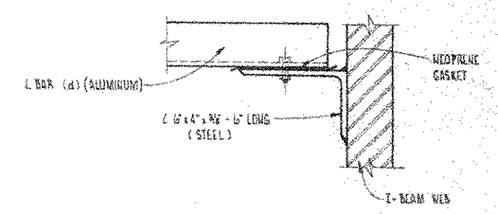
OVERHEAD SIGN SUPPORT No. 554
MOUNTED ON STRUCTURE No. FRA-270-26.46
S.R. I-270 UNDER S.R. U.S.R. 62



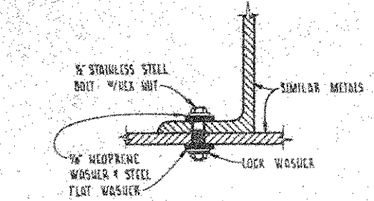
SECTION A-A



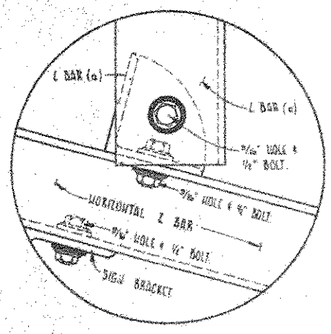
TOP VIEW



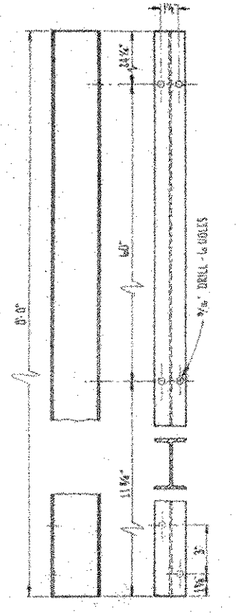
SECTION B-B



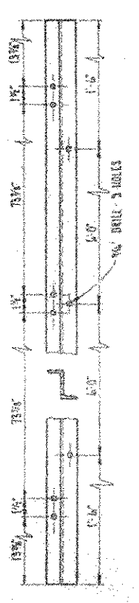
BOLTED CONNECTION



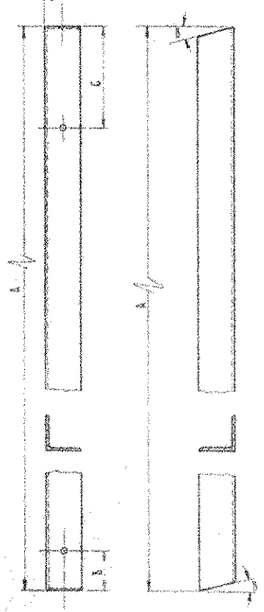
DETAIL "B"



SIGN BRACKET I-BEAM
4" x 2 3/32" x ⅜"
4 REQD.

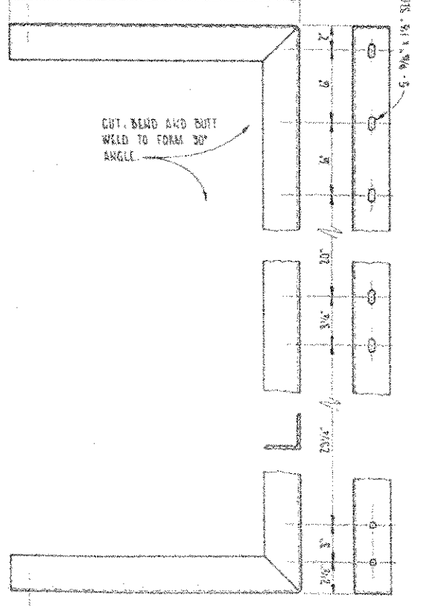


HORIZONTAL Z BAR
2⅜" x 1¼" x ⅜"
2 REQD.

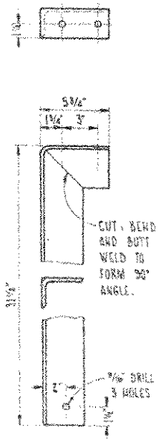


L BAR (a)
SEE TABLE #1

L BAR (b)
SEE TABLE #1



L BAR (c)
SEE TABLE #1



L BAR (d)
3½" x 2½" x ⅜"
3 REQ'D.

TABLE No 1

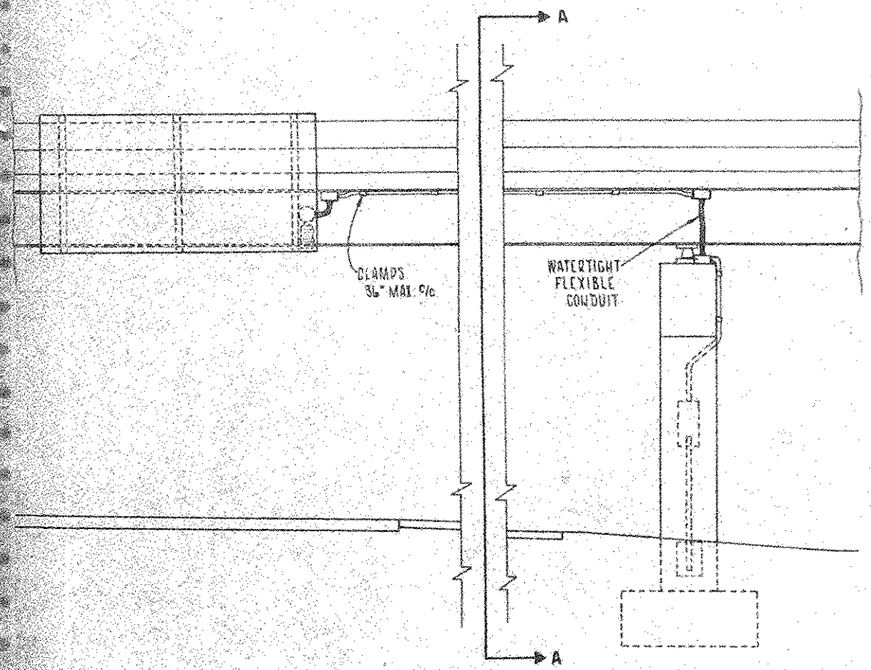
BAR No.	FRAME No.	BAR SIZE	A	B	C	D	E	
L BAR(a)	1	3" x 3" x 3/16"	71 9/16"	3¼"	8 3/8"	1⅝"	3"	
L BAR (b)	1	3" x 3" x 3/16"	72 11/16"	14°				
L BAR (c)	1	3" x 3" x 3/16"	24"	1⅝"	1⅛"			
L BAR (a)	2	4" x 4" x ¼"	71⅛"	3 3/16"	8 9/16"	2"	4"	
L BAR (b)	2	4" x 4" x ¼"	67 15/16"	52°				
L BAR (c)	2	4" x 4" x ¼"	54 3/16"	2"	1 9/16"			
L BAR (a)	3	5" x 5" x 5/16"	71⅛"	3 5/16"	8 3/16"	2⅛"	5"	
L BAR (b)	3	5" x 5" x 5/16"	105 9/16"	45°				
L BAR (c)	3	5" x 5" x 5/16"	84 3/16"	2⅛"	2 1/16"			

NOTE:
ALL MEMBERS SHALL BE 6061-T6
UNLESS OTHERWISE NOTED.

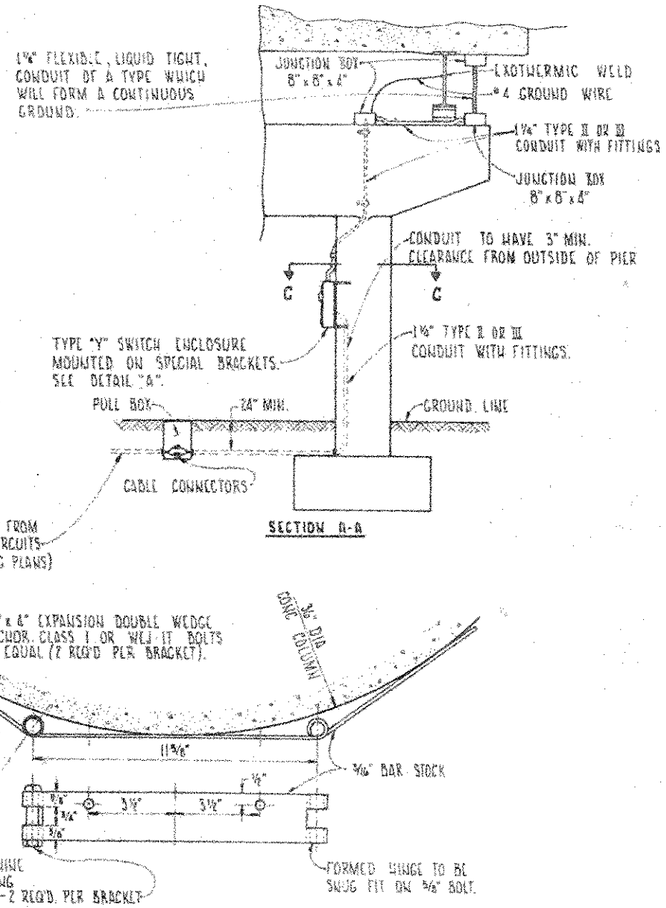
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

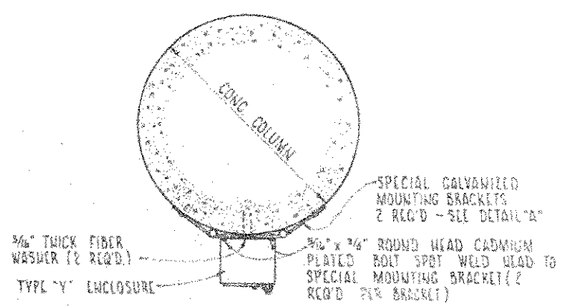
280
15
32



FRONT ELEVATION



DETAIL "A"
ENCLOSURE MOUNTING BRACKET
(2 REQUIRED)



SECTION C-C
TURNED 90°

FOR STRUCTURE GROUNDING NOTES, SEE "STANDARD CONSTRUCTION DRAWING" ML-4. FOR SIGN MOUNTING DETAILS, INCLUDING FIXTURE SUPPORT ARM DETAILS, WIRING DETAILS, INCLUDING BALLAST, JUNCTION BOXES, CONDUIT, CONDULETS AND ALL RELATED PARTS SEE SHEET 35 (E1-1) 36 (E1-2) AND 12 (816-SPL). FOR DETAILS OF THE SWITCH ENCLOSURE SEE SHEET No. 37.

BASIS OF PAYMENT FOR STRUCTURE MOUNTED SIGNS

THE PAY ITEMS FOR THE WORK REQUIRED IN THE CONSTRUCTION OF THE ILLUMINATED SIGNS MOUNTED ON STRUCTURES ARE LISTED SEPARATELY IN THE GENERAL SUMMARY FOR TRAFFIC CONTROL ITEMS. THE ITEMS ARE AS DESCRIBED IN THE GENERAL NOTES EXCEPT AS FOLLOWS:

816 OVERPASS STRUCTURE MOUNTED SIGN SUPPORT:
THIS ITEM OF WORK SHALL CONSIST OF THE FURNISHING, FABRICATION, AND ERECTION OF THE MATERIALS FOR THE OVERPASS STRUCTURE MOUNTED SIGN SUPPORT IN ACCORDANCE WITH MATERIALS AND REQUIREMENTS SPECIFIED IN THESE PLANS AND DETAILED ON SHEETS 12 AND 13.

WORK SHALL INCLUDE ALL NECESSARY FRAMING, SIGN BRACKETS, LIGHT FIXTURE SUPPORT ARMS, WELDING, BOLTS, COMPLETE AND READY FOR INSTALLATION OF ELECTRICAL SIGN LIGHTING COMPONENTS.

BASIS OF PAYMENT SHALL BE AT THE BID PRICE PER EACH "OVERPASS STRUCTURE MOUNTED SIGN SUPPORT", INCLUDING ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS REQUIRED TO PERFORM THE ITEM OF WORK.

30 AMPERE FUSED DISCONNECT SWITCH WITH TYPE "Y" ENCLOSURE:
SAME AS DESCRIBED IN THE GENERAL NOTES EXCEPT MOUNTED ON SPECIAL BRACKETS.

625 STRUCTURE MOUNTED SIGNS WIRED, COMPLETE:
THIS ITEM SHALL CONSIST OF THE FURNISHING AND/OR INSTALLING THE ELECTRICAL SIGN LIGHTING SYSTEM COMPONENTS FROM THE DISCONNECT SWITCH TO THE LIGHT FIXTURES.

WORK SHALL INCLUDE INSTALLATION OF LIGHT FIXTURES, BALLAST AND THE FURNISHING AND INSTALLATION OF RIGID AND FLEXIBLE CONDUIT, CONDULETS, JUNCTION BOXES, CABLE, FASTENERS, HARDWARE, GROUNDING SYSTEM AND ALL OTHER ITEMS REQUIRED TO ENERGIZE THE SIGN LIGHTING SYSTEM. SEE DETAILS ON SHEETS 12, 25, AND 36.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER EACH SIGN WIRED WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS TO PROVIDE A COMPLETE AND ACCEPTED ITEM OF WORK.

ILLUMINATED SIGNS REQUIRING TWO (2) BALLAST SHALL BE CONSIDERED AS AN EQUIVALENT OF TWO (2) SEPARATE SIGNS FOR DETERMINATION OF PAYMENT QUANTITIES.

625 SIGN SERVICE FOR STRUCTURE MOUNTED SIGNS:
THIS ITEM OF WORK SHALL CONSIST OF THE COMPLETION OF THE ELECTRICAL SYSTEM AND COMPONENTS CONNECTING THE CONNECTORS IN THE PULL BOX (INCLUDED WITHIN THE ROADWAY LIGHTING QUANTITIES) WITH THE PRIMARY SIDE OF THE DISCONNECT SWITCH.

WORK WILL INCLUDE THE FURNISHING AND INSTALLING (INCLUDING TRENCHING AND BACKFILLING) OF THE 1¼" TYPE II OR III METAL CONDUIT AND #12 AWG, 600 V. DIRECT BURIAL CABLE FROM THE PULL BOX TO THE SWITCH ENCLOSURE AND SHALL ALSO INCLUDE ALL FITTINGS AND FASTENERS NEEDED TO COMPLETE THIS ITEM OF WORK.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

SPECIAL DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKETS:
THIS ITEM SHALL INCLUDE THE FURNISHING, FABRICATING AND INSTALLATION OF DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKETS WHEN ENCLOSURES ARE MOUNTED ON CONCRETE BRIDGE COLUMNS.

WORK SHALL CONSIST OF FIELD DRILLING, ATTACHMENT, AND HARDWARE AS DETAILED ON THIS SHEET.

BASIS OF PAYMENT SHALL BE AT THE BID PRICE PER EACH MOUNTING BRACKET WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING, FABRICATION AND INSTALLATION INCLUDING ALL LABOR, MATERIAL AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

DIMENSION "A" = EDGE OF PAVEMENT TO ℄ FIRST SUPPORT.
DIMENSION "B" = ℄ FIRST SUPPORT TO ℄ SECOND SUPPORT.
DIMENSION "C" = ℄ SECOND SUPPORT TO ℄ THIRD SUPPORT.
DIMENSION "D" = ℄ SUPPORT TO EDGE OF SIGN

SUB-SUMMARY — TRAFFIC CONTROL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.33N
FRA-62-20.83

231
14
32

SIGN AND SUPPORT QUANTITIES

FROM SHEET No.	SIGN SUPPORT No.	SIGN LOCATION	SIGN DESIGNATION	EFFECTIVE SIGN SIZE	PARTICIPATION	DIMENSION "A" L.F.	DIMENSION "B" L.F.	DIMENSION "C" L.F.	DIMENSION "D" L.F.	815 SIGN ERECTION, FLAT SHEET S.F.	815 SIGN ERECTION, EXTRA SHEET S.F.	815 INTERIM COVERING FOR SIGNS S.F.	816 No. 7.4 DESIGN 1 MOD., 57'-0" SPAN EA.	816 No. 7.4 DESIGN 1 MOD., 62'-0" SPAN EA.	816 No. 7.4 DESIGN 1, 64'-0" SPAN EA.	816 No. 7.4 DESIGN 1 MOD., 65'-0" SPAN EA.	816 No. 7.4 DESIGN 1 MOD., 74'-0" SPAN EA.	816 No. 7.6 DESIGN 4, 81'-0" SPAN EA.	816 No. 7.6 DESIGN 4, 93'-0" SPAN EA.	816 No. 9.12 DESIGN 1 MOD., 7'-0" ARM EA.	816 No. 12.24 DESIGN 3 MOD., 18'-0" ARM EA.	816 No. 12.24 DESIGN 6, 22'-0" ARM EA.	816 No. 12.28 DESIGN 4 MOD., 21'-0" ARM EA.	816 No. 12.24 DESIGN 5 MOD., 22'-0" ARM EA.	816 No. 12.24 DESIGN 6 MOD., 30'-0 ARM EA.	816 OVERPASS STR. MTD SIGN SUPPORT EA.	816 STRUCTURAL SUPPORTS 4 LB. DRIVE POST L.F. LT. CTR. RT.	816 STRUCTURAL SUPPORTS 6 LB. BEAM L.F. LT. CTR. RT.	816 STRUCTURAL SUPPORTS 6 LB. BEAM DRIVEN 35 PER PILE L.F. LT. CTR. RT.	816 STRUCTURAL SUPPORTS 8 LB. BEAM L.F. LT. CTR. RT.	816 STRUCTURAL SUPPORTS	202 REMOVAL OF EXIST. MAJOR SIGNS EA.	202 REMOVAL OF EXIST. SIGNS LUMP	CONC. FOR OVHD MTD SIGN SUPPORTS C.Y.	CONC. FOR OVERHEAD SIGN SUPPORTS C.Y.
6	551	144+50 S.B. I-270	a.	16'-0" x 11'-6"	URBAN						207.5																									9.7
7	552	146+50 N.B. I-270	a.	16'-0" x 8'-0"	RURAL						144.0										1																9.7
6		1470+58 N.B. I-270		36" x 48"	↑	14.96			1.79	4.9																											
7				42" x 36"						10.5																											
		1483+00 N.B. I-270		48" x 48"		15.65			2.83	19.0																											
			a.	15'-0" x 9'-0"							120.0																											
	565	1492+05 S.B. I-270	b.	12'-0" x 9'-6"							114.0										1																
			c.	18'-0" x 11'-6"							207.0																											
		1496+00 S.B. I-270		8'-0" x 5'-0"		13.76	4.48		1.76		40.0																											
		1506+00 S.B. I-270		48" x 48"		15.65			2.83	19.0																											
	554	80 STR. 4 FRA-270-26.65		16'-0" x 7'-0"	↑						160.0																											
7		1515+70 S.B. I-270		8'-0" x 5'-0"	RURAL	13.76	4.48		1.76		40.0																											
8	555	1089+85 N.B. U.S.R. 62	a.	12'-0" x 5'-6"	U-202						126.0																											
			b.	15'-0" x 5'-0"	↑						90.0																											
	164	5+15 N.B. STELLER	a.	7'-0" x 6'-0"							84.0																											
			b.	7'-0" x 5'-0"							49.0										1																
8	569	10 + 35 S.B. STELLER	a.	7'-0" x 5'-0"	↑						42.0	42.0																											
7			b.	7'-0" x 5'-0"	↑						42.0	42.0									1																
7	556	1164+00 N.B. U.S.R. 62	a.	11'-0" x 8'-0"	U-202						99.0																											
			a.	18'-0" x 8'-0"	RURAL						144.0																											
	168	1134+31 N.B. U.S.R. 62	b.	10'-0" x 8'-0"	↑						80.0										1																
			c.	11'-0" x 8'-0"							77.0																											
		6-1518+38		42" x 48" x 48"		11.00			3.00	6.9																											
			a.	16'-0" x 9'-0"							144.0																											
	555	1140+97 N.B. U.S.R. 62	b.	13'-0" x 7'-0"	↑						91.0										1																
7		1151+00 N.B. U.S.R. 62		48" x 48"		15.83			2.85	16.0																											
8		1177+50 N.B. U.S.R. 62		36" x 36"	↑	15.15			2.15	5.0																											
	565	1178+95 S.B. U.S.R. 62	a.	12'-0" x 8'-0"	RURAL						108.0																											
		1182+50 N.B. U.S.R. 62		6'-0" x 1'-6"	U-202	14.83	3.36		1.92		9.0																											
		1184+00 N.B. U.S.R. 62		30" x 30"	↑	14.25			1.25	6.3																											
		1185+50 S.B. U.S.R. 62		56" x 36" x 36" x 18"		14.58			1.58	15.5																											
		1186+51 S.B. U.S.R. 62		36" x 42"		(4 HOLDING)			1.58	10.5																											
		1186+72 S.B. U.S.R. 62		6'-0" x 1'-0"		14.92	3.36		1.92		6.0																											
		10+88 S.B. STYGLER RD.		36" x 36"		12.50			1.58	9.0																											
		12+55 S.B. STYGLER RD.		30" x 30"		12.35			1.25	6.3																											
		9+30 N.B. STYGLER RD.		36" x 36"		12.50			1.58	9.0																											
		11+85 N.B. STYGLER RD.		30" x 30"		12.35			1.25	6.3																											
		13+85 N.B. STYGLER RD.		30" x 30"		12.35			1.25	6.3																											
		1187+10 N.B. U.S.R. 62		6'-0" x 1'-0"		14.92	3.36		1.33		6.0																											
		1188+00 N.B. U.S.R. 62		36" x 42"		(4 HOLDING)			1.58	10.5																											
		1189+00 N.B. U.S.R. 62		56" x 36" x 36" x 18"		14.58			1.58	15.5																											
		1192+50 S.B. U.S.R. 62		6'-0" x 1'-0"		14.92	3.36		1.92		9.0																											
		1194+00 N.B. U.S.R. 62		36" x 36"		15.15			2.15	9.0																											
		1197+50 S.B. U.S.R. 62		36" x 36"		15.15			2.15	9.0																											
		1201+00 N.B. U.S.R. 62		6'-0" x 1'-0"		14.92	3.36		1.92		9.0																											
		1204+50 S.B. U.S.R. 62		6'-0" x 5'-0"		14.92	3.36		1.92		36.0																											
		1204+60 S.B. U.S.R. 62		36" x 36" x 36" x 18"		14.50			1.50	19.5																											
		1205+92 S.B. U.S.R. 62		36" x 48"		(4 HOLDING)			1.50	10.5																											
		1205+25 S.B. U.S.R. 62		6'-0" x 1'-0"	↑	12.92	3.36		1.92		6.0																											
8		0+46 N.B. RIDGEWAY RD.		36" x 36"	U-202	7.95			1.50	9.0																											
7		14+15 S.B. 49		60" x 60" x 60"	RURAL	11.58			2.96	10.3																											
		SUB. TOTALS																																			
		I 270-5(103)17 URBAN									207.5																											
		I-270-5(103)17 RURAL								83.8	1693.0																											
		U-202(6)								142.2	518.0	84.0																											

ELECTRICAL QUANTITIES

FROM SHEET No.	SIGN SUPPORT No.	625 BALLAST WATTAGE RATING	TYPE "A" EA.	TYPE "B" EA.	TYPE "C" EA.	TYPE "D" EA.	LAMP & FIXTURE 48" FIXTURE, 40 WATT LAMP EA.	72" FIXTURE, 112 WATT LAMP EA.	72" FIXTURE, 192 WATT LAMP EA.	96" FIXTURE, 215 WATT LAMP EA.	96" FIXTURE, 345 WATT LAMP EA.	TRANSFORMER N.E.M.A. RATING TYPE II EA.	TYPE III EA.	TYPE IV EA.	TYPE V EA.	TYPE VI EA.	30 AMP FUSED DISCONNECT SWITCH W/ 4"x4" ENCLOSURE EA.	30 AMP FUSED DISCONNECT SWITCH W/ 2" ENCLOSURE EA.	STRUCTURE MOUNTED SIGN WIRED, COMPLETE EA.	SPECIAL DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKET EA.	GROUND ROD EA.	SIGN WIRED, COMPLETE EA.	SIGN SERVICE EA.	SIGN SERVICE FOR STR. MTD. SIGN EA.
6	551	425			1			2				.75	1				1					1	1	1
7	552	425			1			2			1	.75	1				1					1	1	1
6																								
7																								
		425			1			2				3.0			1			1			1	1	1	
		425			1			2			2													
		425			1		1	2			1	.75	1				1					1	1	1
		425			1			2				1.0			1							1	1	1
		250	1					2					1											
		425			1		1	2			1	1.5		1				1				1	1	1
		250		1							1													
		150	1					1																
		150	1					1				.50	1									1	1	1
		150	1					1				.50	1									1	1	1
		250		1																				
		425			1			2			1	1.0			1							1	1	1
		250		1				2																
		425			1			2				.75	1				1					1	1	1

DIMENSION "A" = EDGE OF PAVEMENT TO ℄ FIRST SUPPORT.
DIMENSION "B" = ℄ FIRST SUPPORT TO ℄ SECOND SUPPORT.
DIMENSION "C" = ℄ SECOND SUPPORT TO ℄ THIRD SUPPORT.
DIMENSION "D" = ℄ SUPPORT TO EDGE OF SIGN.

SUB-SUMMARY — TRAFFIC CONTROL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

282 / 15 / 32

SIGN AND SUPPORT QUANTITIES

FROM SHEET No.	SIGN SUPPORT No.	SIGN LOCATION	SIGN DESIGNATION	EFFECTIVE SIGN SIZE	PARTICIPATION	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	DIMENSION "D"	815 SIGN ERECTION, FLAT SHEET	815 SIGN ERECTION, EXTRU SHEET	815 INTERIM COVERING FOR SIGNS	816 No. 7A DESIGN 1 MOD., 57'-0" SPAN	816 No. 7A DESIGN 1 MOD., 60'-0" SPAN	816 No. 7A DESIGN 1 MOD., 64'-0" SPAN	816 No. 7A DESIGN 1 MOD., 68'-0" SPAN	816 No. 7A DESIGN 1 MOD., 74'-0" SPAN	816 No. 7B DESIGN 4, 81'-0" SPAN	816 No. 7B DESIGN 4, 83'-0" SPAN	816 No. 9.12 DESIGN 1 MOD., 7'-0" ARM	816 No. 12.24 DESIGN 3 MOD., 18'-0" ARM	816 No. 12.24 DESIGN 4, 21'-0" ARM	816 No. 12.24 DESIGN 4 MOD., 21'-0" ARM	816 No. 12.24 DESIGN 5 MOD., 23'-0" ARM	816 No. 12.24 DESIGN 6 MOD., 26'-0" ARM	816 OVERPASS STR. MTD. SIGN SUPPORT	816 STRUCTURAL SUPPORTS 4 LB. DRIVE POST	816 STRUCTURAL SUPPORTS 6 LB. BEAM	816 STRUCTURAL SUPPORTS 6 LB. BEAM DRIVEN AS PER PLAN	816 STRUCTURAL SUPPORTS 8 LB. BEAM	202 REMOVAL OF EXIST. MAJOR SIGNS	202 REMOVAL OF EXIST. SIGNS	CONC. FOR CANTILEVER SIGN SUPPORTS	CONC. FOR OVERHEAD SIGN SUPPORTS
						L.F.	L.F.	L.F.	L.F.	S.F.	S.F.	S.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F. (CTR.) (RT.)	L.F. (CTR.) (RT.)	L.F. (CTR.) (RT.)	L.F. (CTR.) (RT.)	EA.	LUMP	C.Y.	C.Y.
6		0006+88 N.B. U.S.R. 62		6'-0" x 11'-0"	U-202	11.92	9.36		1.92		66.0																	12.0 12.0						.24	
7		1107+50 N.B. U.S.R. 62		36"x36"& 36"x 10"		11.50			1.50	13.5																			15.5						.12	
8		1214+25 S.B. U.S.R. 62		36"x 96"	U-202	10.88			2.13	9.0																			15.0						.12	
7		1164+40 S.B. U.S.R. 62	a.	12'-0" x 9'-0"	RURAL						86.0																									
			b.	12'-0" x 8'-0"							108.0				1																					
			c.	15'-0" x 6'-0"							105.0																									
		1163+05 S.B. U.S.R. 62		42"x 60"		11.75			1.75		17.5																								.12	
	561	1150+75 S.B. U.S.R. 62	a.	12'-0" x 7'-0"							96.0		1																							
			b.	11'-0" x 6'-0"							77.0																								8.6	
		1146+75 S.B. U.S.R. 62		42"x 60"		11.75			1.75		17.5																								.12	
	560	1142+60 S.B. U.S.R. 62	a.	12'-0" x 7'-0"							96.0									1																
		1138+00 S.B. U.S.R. 62		48"x 48"		15.83			2.83	16.0																			17.5						.12	
	557	1125+09 S.B. U.S.R. 62	a.	16'-0" x 9'-0"							144.0																									
			b.	15'-0" x 6'-0"							90.0		1																						8.5	
7		1126+25 S.B. U.S.R. 62		48"x 48"		7.83			2.83	16.0																			17.0						.12	
7		1125+50 S.B. U.S.R. 62		6'-0", 9'-0"	RURAL	11.32	9.36		1.32		36.0																			14.5 17.0						.24	
8		1105-00 S.B. U.S.R. 62		48"x 48"	U-202	15.83			2.83	16.0																						17.5			.12	
7		D-1435+50		48"x 48"	RURAL	15.83			2.83	16.0																			17.5						.12	
8		F-1515+65		48"x 60"		11.90			2.00	20.0																						16.5			.12	
		1146+00 RAMP "F" EXT.		48"x 48"		9.83			2.83	16.0																			17.5						.12	
		G-1434+25		48"x 60"	RURAL	11.90			2.00	20.0																						16.5			.12	
7		K-1119+00		6'-0" x 4'-0"	U-202	10.76	4.48		1.96		32.0																			15.5 16.0						.24	
8		1074+72± U.S.R. 62		12'-0" x 4'-0"																														1		
8		1080+87± U.S.R. 62		12'-0" x 4'-0"																														1		
8		1092+66± U.S.R. 62		48"x 48"	U-202																													LUMP		
	TOTALS TO GENERAL SUMMARY										207.5																									
	I-270-5(18)117 URBAN									133.8	2358.0		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							2.52	63.9
	I-270-5(18)117 RURAL									180.7	616.0	84.0			1			2		1								241.5	147.0	46.0	184.0	53.5	2 LUMP	3.96	14.2
	U-202(5)																																			

ELECTRICAL QUANTITIES

FROM SHEET No.	SIGN SUPPORT No.	625 BALLAST RATINGS	TYPE "A" EA.	TYPE "B" EA.	TYPE "C" EA.	TYPE "D" EA.	LAMP & FIXTURE 245" FIXTURE, 400 LAMP EA.	172" FIXTURE, 400 LAMP EA.	172" FIXTURE, 250 LAMP EA.	96" FIXTURE, 215 MA LAMP EA.	96" FIXTURE, 300 LAMP EA.	TRANSFORMER A.V.A. RATING	TYPE II EA.	TYPE III EA.	TYPE IV EA.	TYPE V EA.	30 AMP FUSED DISCONNECT SWITCH w/4"x4" ENCLOSURE EA.	50 AMP FUSED DISCONNECT SWITCH w/12" ENCLOSURE EA.	STRUCTURE MOUNTED SIGN WIRED, COMPLETE EA.	SPECIAL DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKET EA.	GROUND ROD EA.	SIGNS, WIRED, COMPLETE EA.	SIGN SERVICE EA.	SIGN SERVICE FOR STR. MTD. SIGN EA.
		250	1					1															
		425				1			2			15			1			1			1	3	1
		250		1				1															
		425			1				2			10			1			1			1	2	1
		250	1						1														
		425			1			1		1		15	1								1	1	1
		250	1				1																
		425			1			1	1			10			1			1			1	2	1
		250	1						1														
		425			1			1

621 - PAVEMENT MARKING

NOTE: ALL MARKINGS THAT ARE SHOWN WITH A (*) ARE TO BE PAID FOR BY 100% STATE FUNDS

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRA-270-23.39N
FRA-62-20.83

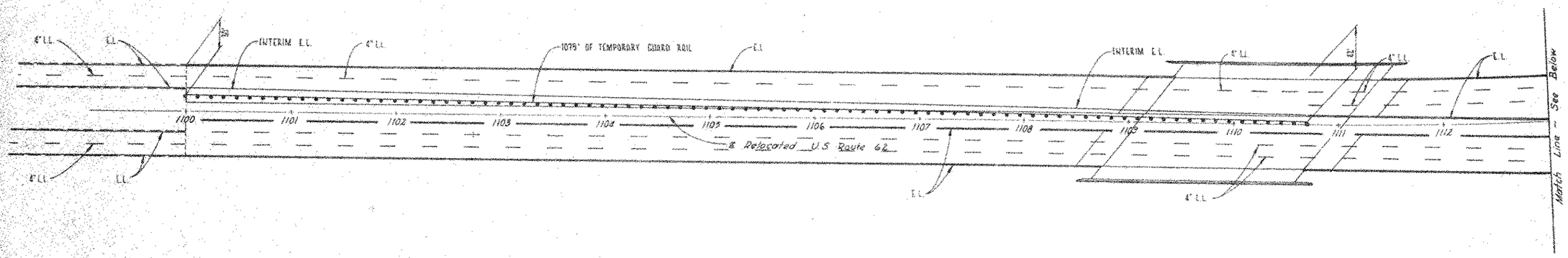
PARTICIPATION	RAMP OR ROADWAY	STATION	TO STATION	EDGE LINE LF	4" LANE LINE LF	6" LANE LINE LF	CHANNELIZING LINE LF	BROAD TRANSVERSE STRIPES LF	CURB MARKING LF	ISLAND MARKING SF	LANE ARROWS EA	24" STOP LINE LF	INTERIM EDGE LINE LF	INTERIM 4" LANE LINE LF
				INTERSTATE 270										
URBAN	S.B.	1452+60	1466+07	2814		2814*								
RURAL		1466+07	1490+35	4926		4926*								
		1490+35	1491+00	10	5	10*								
		1491+00	1493+14	214	214	428*								
		1493+14	1495+32	278		536*	278*							
		1495+32	1508+68	2540		2540*								
		1508+68	1509+49	81		162*								
		1509+45	1510+37	168		168*								
		1510+37	1512+48	211		422*								
		1512+48	1513+60	112		224*	112*							
RURAL	S.B.	1513+60	1524+00	2080		2080*								
RURAL	N.B.	1522+00	1485+00	7800		7800*								
		1485+00	1480+20	1440		1440*	480*							
		1480+20	1477+33	864	288*	864*								
RURAL		1477+33	1466+07	2250		3376*								
URBAN		1466+07	1453+15	2584		2576*								
URBAN	N.B.	1453+15	1452+00	230		230*								
					U.S.R. 62									
U-202	N.B.	1034+54	1035+55	104	104									
		1035+55	1037+65	207	207		414	397						
		1037+65	1038+65	100	100		100							
		1038+65	1100+00	270	135									
		1100+00	1120+00	4000	4000									
		1120+00	1121+30	570	580		190							
		1121+30	1124+42	756	756									
U-202		1124+42	1128+55	826	826									
RURAL		1128+55	1132+18	726	726									
		1132+18	1134+74	256	512									
		1134+74	1136+55	181	363		181							
		1136+55	1140+72	834	834									
		1140+72	1145+30	458	458									
		1145+30	1148+93	363	363		363							
		1148+93	1153+38	878	453									
		1153+38	1155+58	660	320		220							
		1155+58	1157+78	660	440									
		1157+78	1171+00	2644	1322									
		1171+00	1176+00	1500	500		500							
		1176+00	1179+00	300	600									
RURAL		1179+00	1180+85	370	370									
U-202		1180+85	1185+85	300	300									
		1185+35	1186+35	206	103		206							
		1186+35									2			
		1186+35	1185+75	37	37		74							
		1186+75										54		
		1186+75	1186+93				81	77						
		1187+67	1187+90	23	23									
		1187+90	1188+90	200	100					400				
		1188+90	1205+27	3274	1637									
		1205+27	1205+49	22	22									
		1206+42	1205+92	10	15					30				
		1206+52	1207+42	180	90					270				
U-202	N.B.	1207+42	1214+25	1366	683									

PARTICIPATION	RAMP OR ROADWAY	STATION	TO STATION	EDGE LINE LF	4" LANE LINE LF	6" LANE LINE LF	CHANNELIZING LINE LF	BROAD TRANSVERSE STRIPES LF	CURB MARKING LF	ISLAND MARKING SF	LANE ARROWS EA	24" STOP LINE LF	INTERIM EDGE LINE LF	INTERIM 4" LANE LINE LF
					U.S.R. 62 (CONTINUED)									
U-202	S.B.	1214+25	1207+73	1304	653									
		1207+72	1206+42	260	130		130							
		1205+43	1204+49	200	100									
		1204+49	1188+42	3308	1602									
		1188+40	1188+35	230	115		230							
		1188+35									2			
		1188+25	1188+21	8	4		8							
		1188+21	1187+86	35	35		70							
		1187+86										54		
		1187+86	1186+91				81	77						
		1186+78	1186+60	15	15									
		1186+60	1185+60	200	100					400				
U-202		1185+60	1180+85	950	475									
RURAL		1180+85	1167+56	2658	1329									
		1167+56	1164+01	510	310									
		1168+01	1164+87	114	228									
		1164+87	1163+14	173	173		173							
		1163+14	1150+92	2444	1222									
		1150+92	1143+67	250	250									
		1143+67	1143+60	107	214									
		1148+60	1147+08	158	155		155							
		1147+08	1136+00	2234	[illegible]									
		1136+00	1133+93	608	201		201							
		1133+93	1131+57	726	424									
		1131+57	1130+50	214	107									
		1130+50	1129+00	150	50									
		1129+00	1127+24	136	136		136							
		1127+24	1126+00	164	164		164		164					
		1126+00	1124+00	400	200				200					
		1124+00	1119+00	1500	1000		500							
RURAL		1119+00	1117+50	450	450									
U-202		1117+50	1116+00	450	450									
		1116+00	1110+70	1060	1060									
		1110+70	1100+00	1070	1070								1050	
		1100+00	1097+33	534	267									
		1097+33	1036+58	150	75		75							
U-202	S.B.	1036+58	1034+54	408	408									
					RAMPS									
RURAL	"A"	A-1510+47	A-1509+50	97										
		A-1509+50	A-1507+54	176			176	411						
		A-1507+54	A-1495+03	2290										
		A-1496+09	A-1494+14	330					195					
RURAL	"A"	A-1494+14	A-1493+14	100					100					
RURAL	"C"	C-1526+00	C-1518+66	1468										
		C-1518+66	C-1517+16	300					150					
RURAL	"C"	C-1517+16	C-1516+16	100					100					
RURAL	"D"	D-1523+84	D-1521+32	452	452									
		D-1519+32	D-1515+74	358	358		358	926						
		D-1515+74	D-1493+14	4520	2260									
		D-1493+14	D-1490+74	780	480									
		D-1490+74	D-1489+13	322	161									
RURAL	"D"	D-1489+13	D-1485+00	826	413				413					

PARTICIPATION	RAMP OR ROADWAY	STATION	TO STATION	EDGE LINE LF	4" LANE LINE LF	6" LANE LINE LF	CHANNELIZING LINE LF	BROAD TRANSVERSE STRIPES LF	CURB MARKING LF	ISLAND MARKING SF	LANE ARROWS EA	24" STOP LINE LF	INTERIM EDGE LINE LF	INTERIM 4" LANE LINE LF
						RAMPS (CONTINUED)								
RURAL	"E"	E-1512+76	E-1515+31	255										
		E-1515+31	E-1517+11	180	180		180	435						
RURAL	"E"	E-1517+11	E-1524+60	1378	689									
RURAL	"F"	F-1510+37	F-1512+50	213										
		F-1512+50	F-1513+65	115			115*	232*						
		F-1513+65	F-1522+51	1772										
		F-1522+51	F-1524+51	400					200					
		1143+11 U.S.R. 62	1161+33 U.S.R. 62	4056										
RURAL	"F"	1157+33 U.S.R. 62	1171+38 U.S.R. 62	712					361					
RURAL	"G"	G-1491+65	G-1493+65	415										
		G-1493+65	G-1495+99	284			283	615						
		G-1495+99	G-1516+42	4086										
		G-1516+42	G-1517+88	312					156					
RURAL	"G"	G-1517+88	G-1518+38	100					100					
RURAL	"H"	H-1491+38	H-1493+42	104										
		H-1493+42	H-1494+01	150			150	400						
		H-1494+01	H-1506+15	2424										
		H-1506+15	H-1506+40	54					57					
		H-1506+40	H-1507+40	100					100					
		H-1507+40	H-1507+85	45			45*							
		H-1507+85	H-1508+61	76	76*									
RURAL	"H"	H-1508+61	H-1509+43	83										
U-202	"J"	J-1103+56	J-1117+35	1553										
		J-1117+35	J-1119+00	330					165					
U-202	"J"	J-1119+00	J-1120+66	166					100					
RURAL	"K"	K-1130+50	K-1129+00	150										
RURAL		K-1129+00	K-1126+00	300			300	600						
U-202		K-1126+00	K-1114+25	2350										
		K-1114+25	K-1112+85	361	140									
		K-1112+72	K-1112+73	15	15									
		K-1112+72	K-1112+66	6										
U-202	"K"	K-1112+66										58		
TOTALS				100977	37536	31985	6748	4218	2531	1100	4	166	1070	
% x LINEAR FEET					14001	11992								
TOTAL IN MILES				20.83	2.66	2.27								
TOTAL I 270-5(6)117, RURAL				6.50	1.44	—	4059	3374	2866	—	—	—	—	
TOTAL I 270-5(6)117, URBAN				1.37	—	—	—	—	—	—	—	—	—	
TOTAL U 202(5)				5.83	1.15	—	1653	545	165	1100	4	166	1070	
TOTAL 100% STATE					.03	3.27	1030	293						

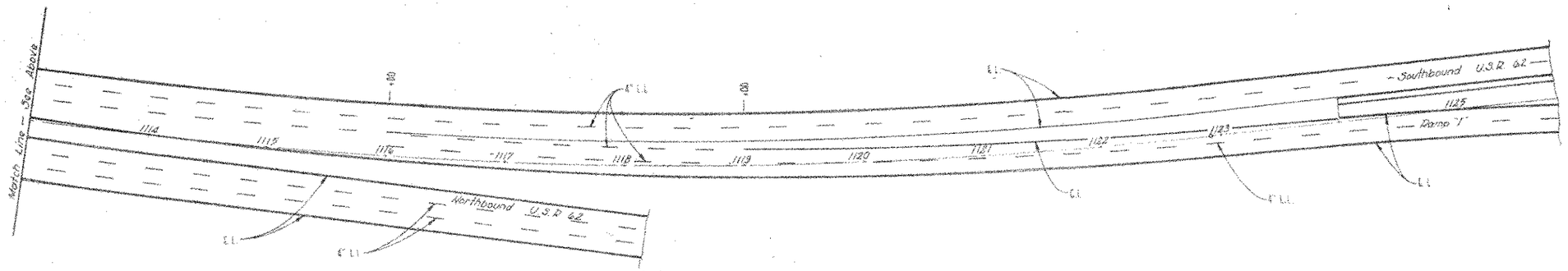
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83



NOTE

1. FOR TEMPORARY GUARD RAIL DETAILS SEE SHEET No. 18.
2. LENGTH OF LANE LINE AND LENGTH OF LANE LINE SPACE ARE NOT TO SCALE.
3. FOR STATIONING AT THE BEGINNING AND END OF EACH MARKING SEE SUB-SUMMARY PAVEMENT MARKING.

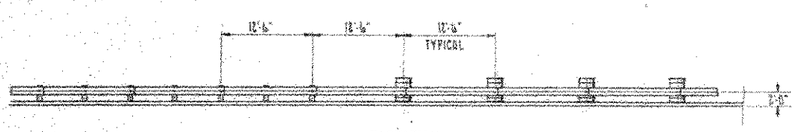


SPECIAL PAVEMENT MARKINGS AND TEMPORARY GUARD RAIL FOR [illegible]

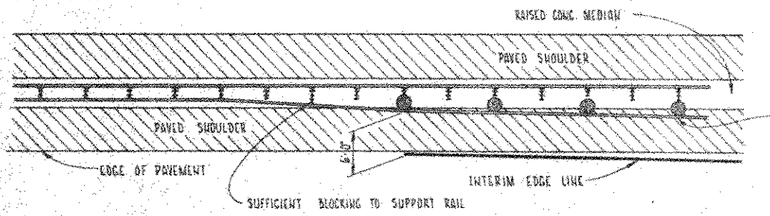
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

285 / 18 / 32

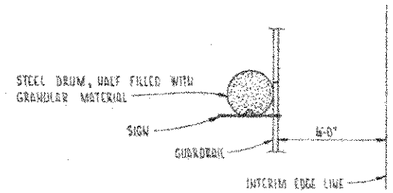
FRA-270-25.33N
FRA-62-20.83

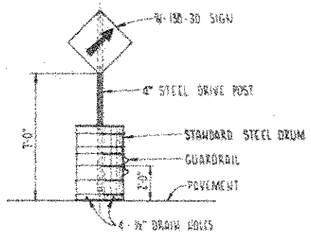


ELEVATION



PLAN





CONTRACTOR TO PROVIDE BLOCKS UNDER DRUMS IN THE TRANSITION AREA FROM RAISED MEDIAN TO PAVED SHOULDER. METHOD OF BLOCKING TO BE APPROVED BY THE ENGINEER.

NOTE:
ERECT W-158-30 SIGNS ON FIRST BARREL THEN EVERY 100' FOR 500' THEN EVERY 200' THEREAFTER. ERECT INTERIM DELINEATORS APPROXIMATELY MIDWAY BETWEEN SIGNS ON BARRELS. FOR FURTHER INFORMATION SEE SHEET 7B, ARTICLE W5-6 OF THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."

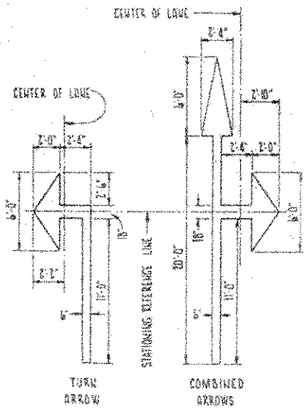
SIGN ATTACHMENT TO TEMPORARY GUARDRAIL

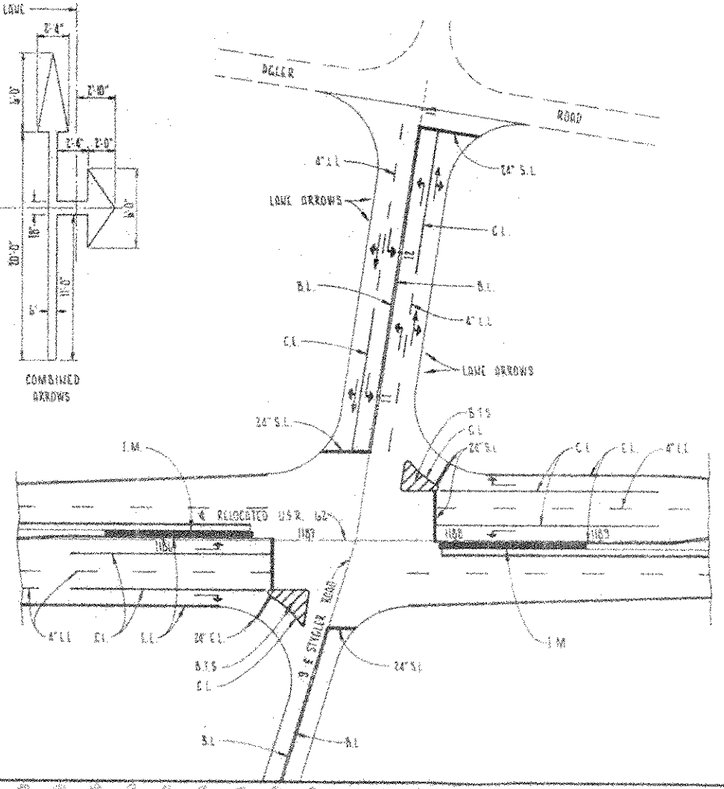
TEMPORARY GUARDRAIL QUANTITIES

FROM SHEET No.	LOCATION		606 TEMPORARY BEAM RAIL	620 INTERIM DELINEATORS AS PER PLAN	815 SIGN ERECTION FLAT SHEET TYPE	816 INTERIM STEEL DRIVE POST 4" AS PER PLAN	202 INTERIM GUARD RAIL REMOVE
			L.F.	EA.	50 FT.	LIN. FT.	LIN. FT.
17	1099+35+ USR 62	1110+70+ USR 62	1075	7	43.8	77	
8	1086+85+ USR 62	1093+85 USR 62					1100
TOTALS U-202(5)			1075	7	43.8	77	1100

621 - PAVEMENT MARKING

PARTICIPATION	ROADWAY	STATION	TO STATION	4" LANE LINE	CHANNELIZING LINE	BARRIER LINE	LANE ARROWS	24" STOP LINE	
AGLER ROAD									
RURAL	E.B.	16+50	20+50	400					
"	"	20+50	24+25	375		375			
RURAL	E.B.	24+25	34+25	1000					
RURAL	W.B.	30+00	23+25			375			
STYGLER ROAD									
U-202	N.B.	5+50	9+36			346			
"	"	9+36						20	
		10+62	11+50	88		88			
		11+50					2		
		11+50	11+88	38		38			
		11+88	12+50		62	62			
		12+50					2		
"	"	12+50	12+88		38	38			
U-202	N.B.	12+88						33	
U-202	S.B.	12+88	12+00	88		88			
"	"	12+00					2		
		12+00	11+60	40		40			
		11+60	11+00		60	60			
		11+00					2		
		11+00	10+60		40	40			
"	"	10+60						35	
U-202	S.B.	9+36	5+50			346			
RIDENOUR ROAD									
U-202	N.B.	0+87	0+46			41			
U-202	N.B.	0+46						25	
U-202	S.B.	0+46	0+87			41			
TOTALS				2085	200	1976	8	119	
3/4m x LINEAR FEET				761					
TOTAL IN MILES				0.15					
TOTAL I-270-5(IB)197 RURAL				0.15	—	758	—	—	
TOTAL U-202-(5)				0.02	200	1226	8	119	

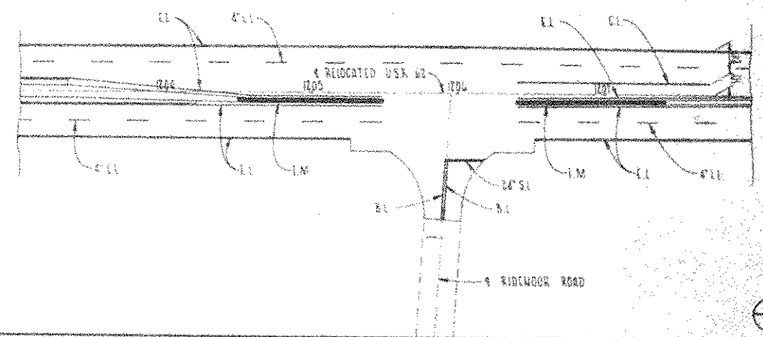




LEGEND
E.L. = EDGE LINE
L.L. = LANE LINE
B.L. = BARRIER LINE
C.L. = CHANNELIZING LINE
S.L. = STOP LINE
B.T.S. = BROAD TRANSVERSE STRIPES
I.M. = ISLAND MARKING

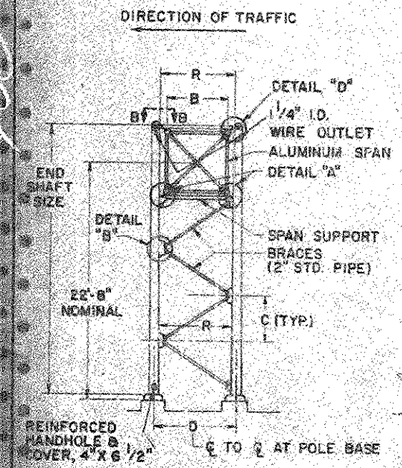
NOTES

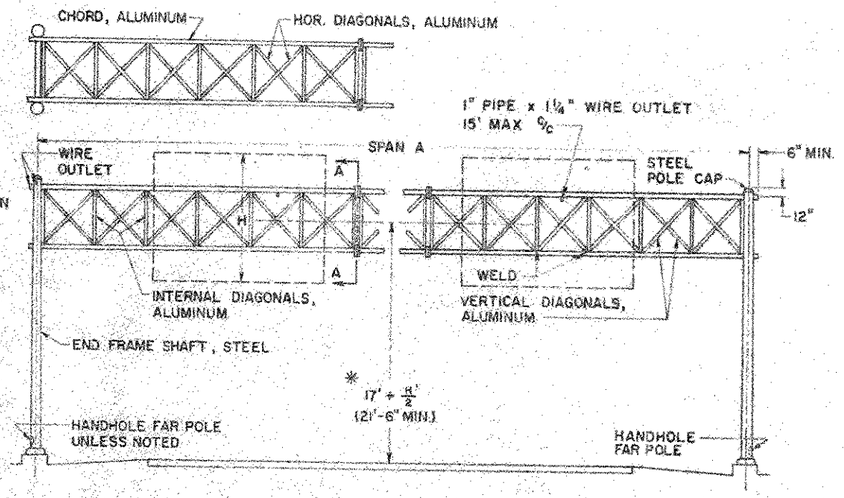
1. LENGTH OF LANE LINE AND LENGTH OF LANE LINE SPACE ARE NOT TO SCALE.
2. FOR STATIONING AT THE BEGINNING AND END OF EACH MARKING SEE SUB-SUMMARIES FOR PAVEMENT MARKING.

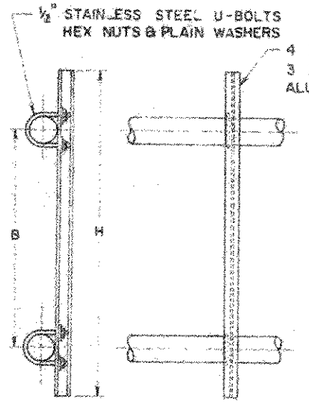


SPECIAL PAVEMENT MARKING DETAILS & TEMPORARY GUARDRAIL DETAILS

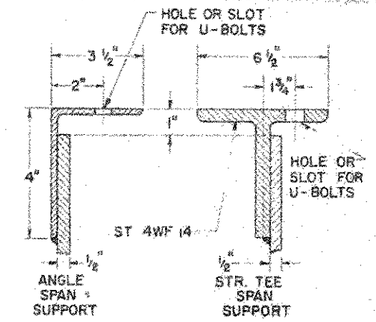
18 / 34







SIGN BRACKET



SECTION D-D

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.53 M
FRA-42-20.83

NOTES

MATERIALS

THE OVERHEAD SPAN TRUSS SHALL BE ALUMINUM AND THE END FRAMES SHALL BE STEEL.

SPAN TRUSS AND END FRAMES, INCLUDING HARDWARE, SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 UNLESS OTHERWISE NOTED.

STEEL POLE BASES AND GUSSETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-373.

AFTER FABRICATION THE TAPERED POLES SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

FABRICATION

THE ENTIRE STEEL END FRAME SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SEC. 711.02

MAXIMUM LENGTH OF SPAN SECTIONS IS 30 FT.

ERECTION

USE A MINIMUM OF 1" CAMBER IN SPAN TRUSS MEMBER FOR A 50' SPAN; ADD 1/8" OF CAMBER FOR EACH 5' OF INCREASE IN SPAN OVER 50'.

PAYMENT

PAYMENT FOR THE GALVANIZED CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

SOILS

THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY).

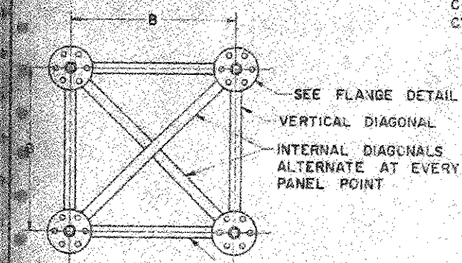
FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL

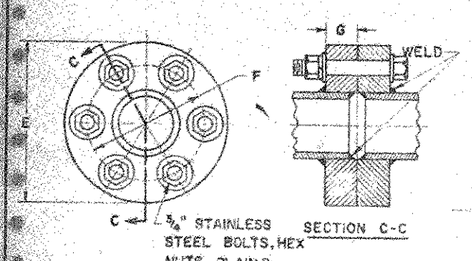
COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS. BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER.

*FOUNDATION ELEVATION

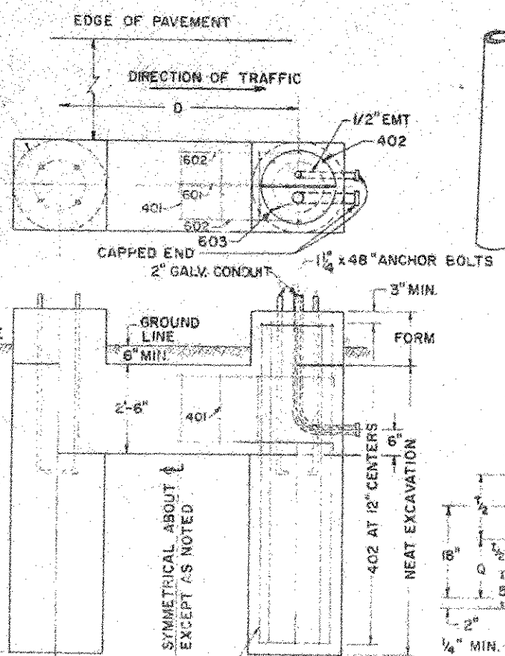
ELEVATION OF TOPS OF FOUNDATIONS SHALL BE BUILT UP SO THAT 17' CLEARANCE IS MAINTAINED OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS.



SECTION A-A

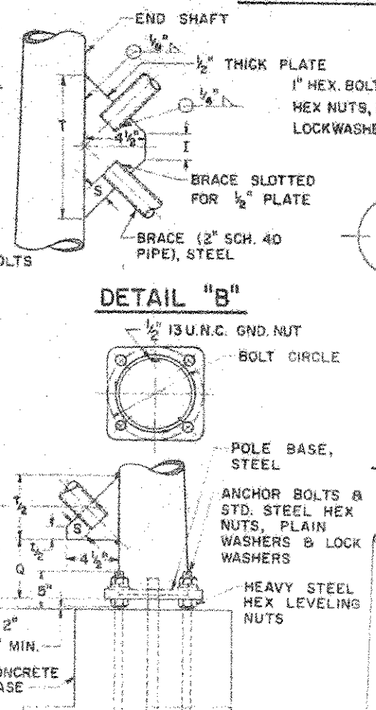


FLANGE DETAIL



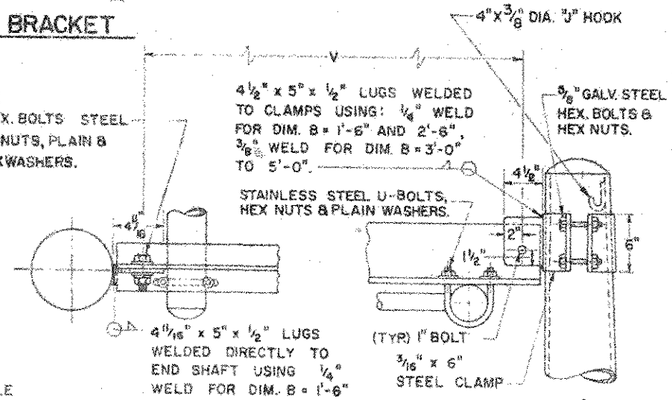
FOUNDATION DETAIL

(RIGHT HAND SHOWN — LEFT HAND OPPOSITE)



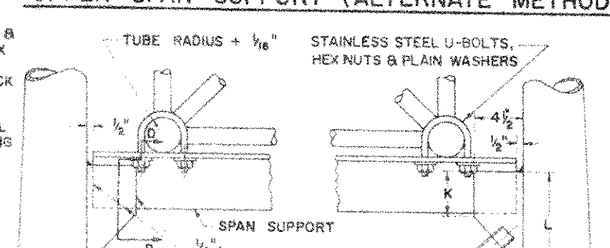
DETAIL "B"

POLE BASE DETAIL



VIEW R-B DETAIL "D"

UPPER SPAN SUPPORT (ALTERNATE METHODS)

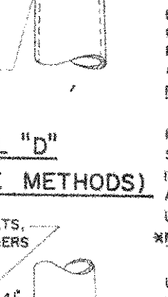


DETAIL "A"

LOWER SPAN SUPPORT

DESIGN NO.	SPAN A	B	C	D	E	END SHAFT	BRACE LENGTH	F	G	I	K	L	P	Q	R	S	T	U BOLTS	V	BOLT CIRCLE	SPAN SUPPORT SECTION D-D	CHORDS	HORIZONTAL AND INTERNAL DIAGONAL	VERTICAL DIAGONAL
1	50' thru 75'	3'-0"	4'-11 3/4"	4'-5"	9 1/4"	9"x4.5"x25'-0", 3 GA.	5'-10 3/16"	7 7/16"	1 3/8"	3 1/2"	4 3/4"	8"	12"	6 3/8"	3'-9"	1 1/2"	10"	5/8"	3'-3 3/8"	11"	SPLIT TEE 3'-8"	4 3/4" x .188"	1.900" x .145"	1.000" x .140"
2	76' thru 85'	4'-0"	4'-10 1/2"	5'-7"	9 1/2"	8"X6.22"x25'-6" 3 GA.	6'-7 1/8"	7 7/16"	1 3/8"	5"	4 3/4"	7 3/4"	12"	6 1/4"	4'-10"	1 1/2"	9 1/2"	5/8"	4'-4 3/8"	11"	SPLIT TEE 4'-10"	4 3/4" x .188"	2" x .186"	1.900" x .145"
3	86' thru 90'	4'-0"	4'-10 1/2"	5'-7"	11"	8"X6.22"x25'-6"3 GA.	6'-7 1/8"	8 1/2"	1 1/2"	5"	4 3/4"	7 3/4"	12"	6 1/4"	4'-10"	1 1/2"	9 1/2"	5/8"	4'-4 3/8"	11"	SPLIT TEE 4'-10"	5 1/2" x .250"	2" x .188"	1.900" x .145"
4	91' thru 110'	5'-0"	4'-8 1/2"	6'-7"	11"	8"X6.18"x26'-0", 3 GA.	7'-3 1/4"	8 1/2"	1 1/2"	—	3 1/2"	7 3/4"	12"	7 1/4"	5'-10"	1 3/4"	11 1/4"	3/4"	5'-4 3/8"	11"	SPLIT TEE 5'-10"	5 1/2" x .250"	2 1/2" x .188"	2 1/2" x .188"

REINFORCEMENT SCHEDULE			
MARK	NO.	LENGTH	TYPE
401	12"C/C	8'-6"	102
402	12"C/C	7'-6"	103
601	4	D+4'-0"	101
602	8	D+2'-0"	101
603	32	D_T - 6"	STR



BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORTS

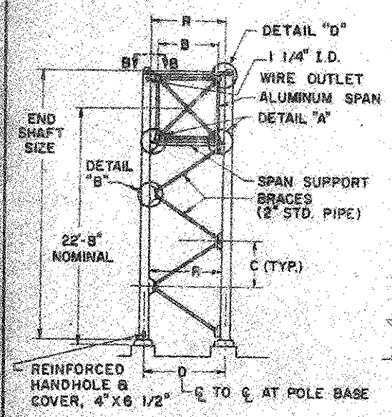
816 No. 7.4

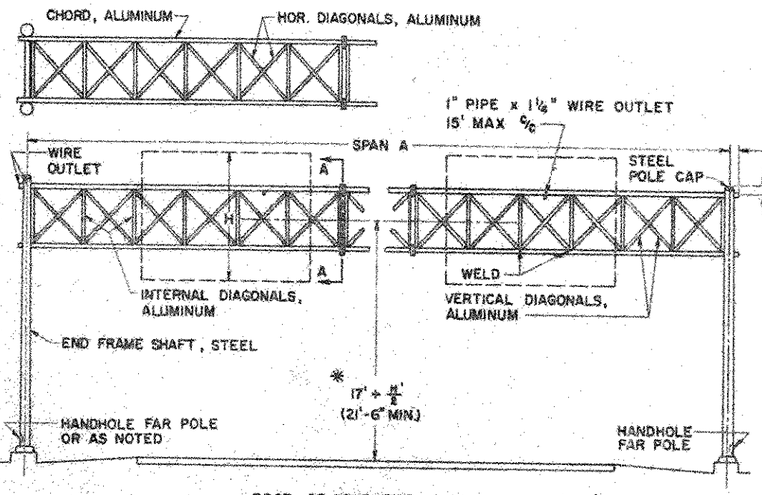
DATE: 5-2-66, 7-25-66, 5-6-66, 6-20-66

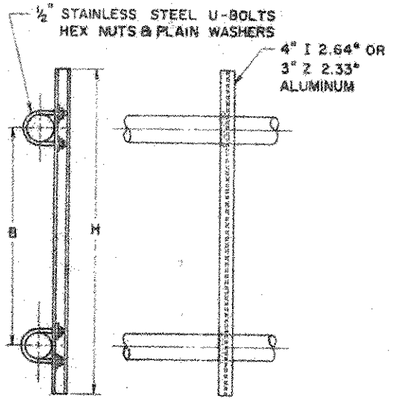
APPROVED Robert P. Comer
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

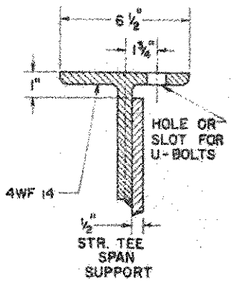
FRA-270-25.35M
FRA-62-20.83







SIGN BRACKET



SECTION D-D

NOTES

MATERIALS

THE OVERHEAD SPAN TRUSS SHALL BE ALUMINUM AND THE END FRAMES SHALL BE STEEL.

SPAN TRUSS AND END FRAMES, INCLUDING HARDWARE, SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 UNLESS OTHERWISE NOTED.

STEEL POLE BASES AND GUSSETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-373.

AFTER FABRICATION THE TAPERED POLES SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

FABRICATION

THE ENTIRE STEEL END FRAME SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SEC. 711.02

MAXIMUM LENGTH OF SPAN SECTIONS IS 30 FT.

ERECTION

USE A MINIMUM OF 1" CAMBER IN SPAN TRUSS MEMBER FOR A 50' SPAN; ADD ½" OF CAMBER FOR EACH 5' OF INCREASE IN SPAN OVER 50'.

PAYMENT

PAYMENT FOR THE GALVANIZED CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

SOILS

THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY).

FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL

COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

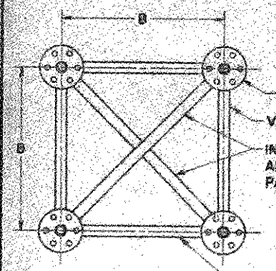
BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATE THE BAR SIZE NUMBER.

*FOUNDATION ELEVATION

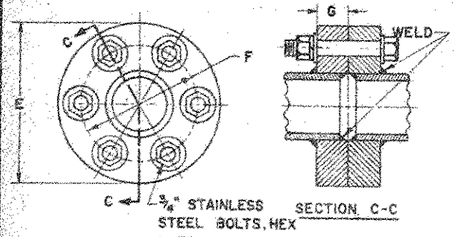
ELEVATION OF TOPS OF FOUNDATIONS SHALL BE BUILT UP SO THAT 17' CLEARANCE IS MAINTAINED OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS.

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

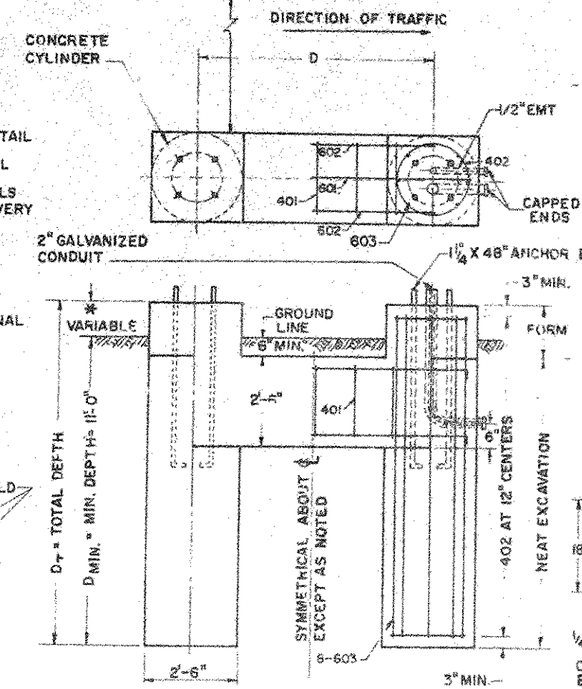


SECTION A-A



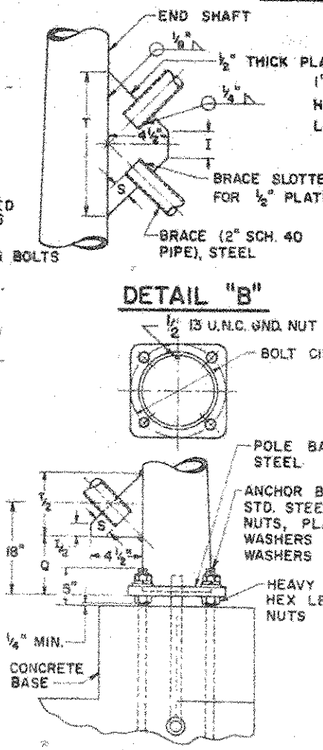
CAST FLANGE, B-26 ALLOY SG 70A-T7 (356-T7)

FLANGE DETAIL

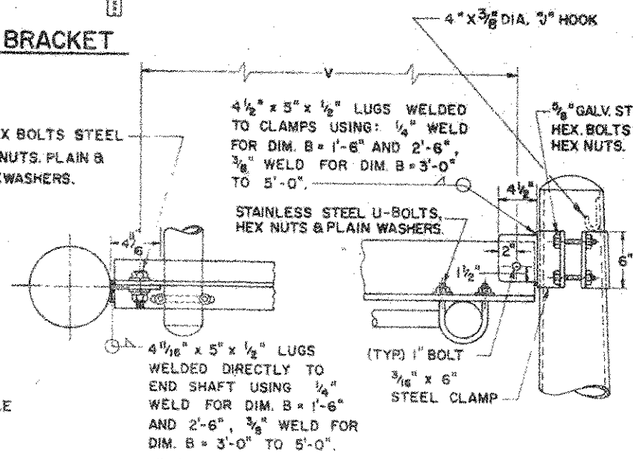


FOUNDATION DETAIL

(RIGHT HAND SHOWN — LEFT HAND OPPOSITE)

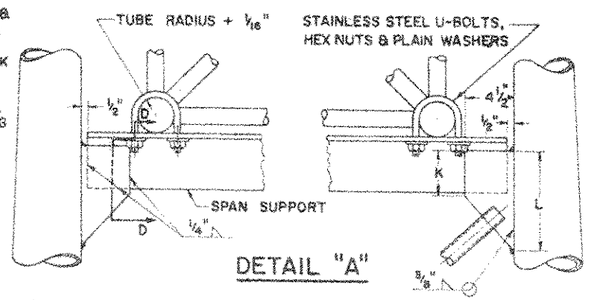


POLE BASE DETAIL



VIEW B-B DETAIL "D"

UPPER SPAN SUPPORT (ALTERNATE METHODS)



DETAIL "A"

LOWER SPAN SUPPORT

DESIGN NO.	SPAN A	B	C	D	E	END SHAFT	BRACE LENGTH	F	G	I	K	L	P	Q	R	S	T	U BOLTS	V	BOLT CIRCLE	SPAN SUPPORT SECTION D-D	CHORDS	HORIZONTAL AND INTERNAL DIAGONAL	VERTICAL DIAGONAL
1.	50' thru 65'	3'-0"	4'-11¾"	4'-5"	9¼"	8"X4.5 X25'-0",36A	5'-10 5/16"	7 7/16"	1⅜"	3½"	4¾"	8"	12"	6⅝"	3'-9"	1½"	10"	⅝"	3'-3⅝"	11"	Split Tee 3'-8"	4¾" X .188"	2" X .188"	1.660"X .140"
2.	70' thru 75'	4'-0"	4'-10⅛"	5'-7"	9¼"	8"X6.22X25'-6",36A	6'-7⅛"	7 7/16"	1⅜"	⅝"	4¾"	7¾"	12"	6¼"	4'-11"	1½"	9½"	⅝"	4'-5⅝"	11"	Split Tee 4'-10"	4¾"X .188"	2" X .188"	1.900"X .145"
3.	76' thru 80'	4'-0"	4'-10⅛"	5'-7"	11"	8"X6.22X25'-6",36A	6'-7⅛"	8½"	1½"	⅝"	4⅝"	7¾"	12"	6¼"	4'-11"	1½"	9½"	⅝"	4'-5⅝"	11"	Split Tee 4'-10"	5½"X .250	2½"X .188"	1.900"X .145"
4.	81' thru 110'	5'-0"	4'-8½"	6'-7"	11"	8"X6.18 X26'-0",36A	7'-3½"	8½"	1½"	—	3½"	7¾"	12"	7¼"	5'-11"	1¾"	11¼"	¾"	5'-5⅝"	11'	Split Tee 5'-10"	6½"X .250	2½"X .188	2½" X .188

REINFORCEMENT SCHEDULE			
MARK	NO.	LENGTH	TYPE
401	12" C/C	6'-6"	102
402	12" C/C	7'-6"	103
601	4	D+ 4'-0"	101
602	8	D+ 2'-0"	101
603	32	D+ — 6"	STR.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORTS

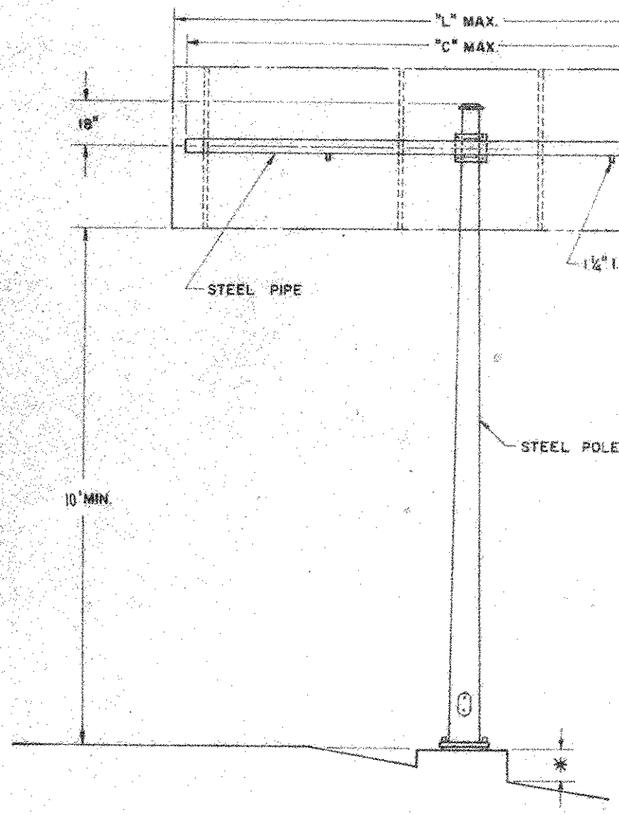
816 No. 7.6

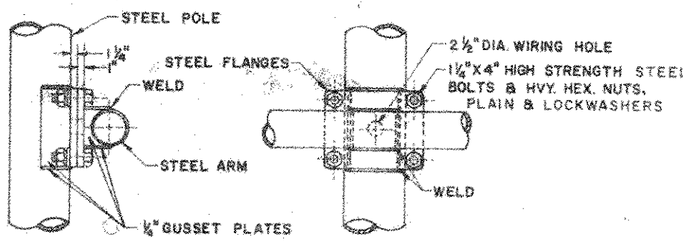
DATE 5-6-64 5-5-66 6-20-66

APPROVED _____ ENGINEER OF TRAFFIC

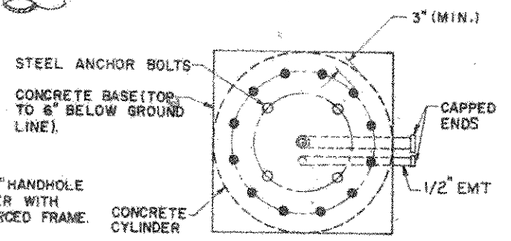
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

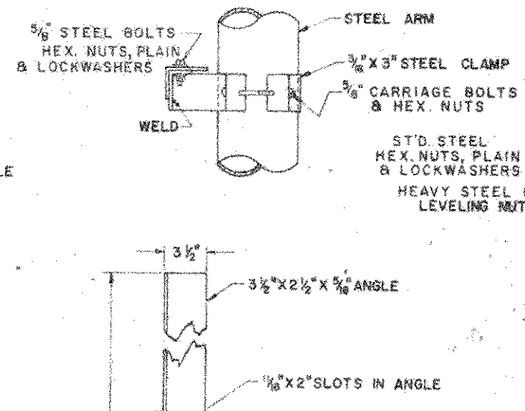
FRA-270-25.33N
FRA-62-20.83

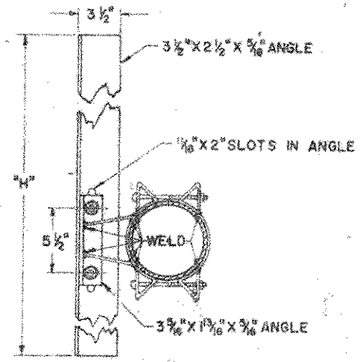




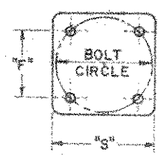
ARM ATTACHMENT



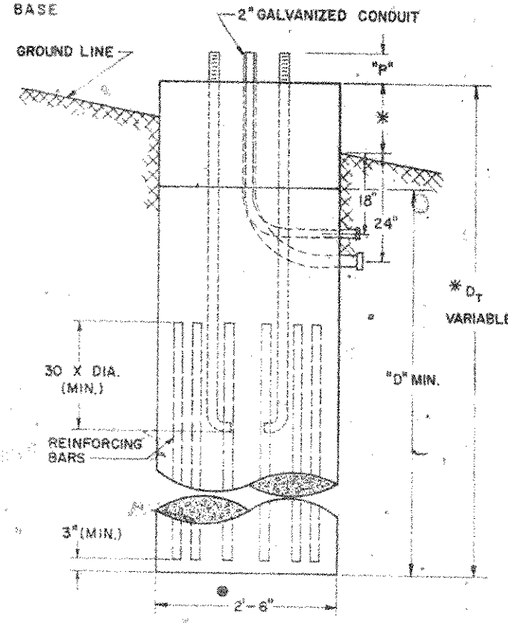




SIGN ATTACHMENT DETAIL



POLE DETAIL



FOUNDATION DETAIL

● THIS DIMENSION SHALL BE 2'-0" FOR DESIGN 1 MODIFIED FOUNDATIONS.

DESIGN NO.	POLE SIZE	PIPE SIZE	DIM C	DIM F	DIM P	DIM S	DIM T	BOLT CIRCLE	ANCHOR BOLT SIZE	MAX SIGN AREA	MAX. "L" WITH MAX. SIGN AREA	"D" MIN.	REINF. BARS TYPE	REINF. BARS NO.
1	7ga, 11"X 7.99 X 21'-6"	4"SCH.40 GRADE A	18'	10⅝"	6½"	15⅝"	1½"	15"	¾"X60"	60	24'-9"	7'-0"	#6	8
2	3ga, 13"X 9.99 X 21'-6"	4"SCH.80 GRADE A	14'	12⅜"	7¾"	18½"	2"	18"	¾"X90"	120	16'-9"	6'-6"	#7	12
3	3ga, 13"X 9.99 X 21'-6"	6"SCH.40 GRADE A	20'	12⅜"	7¾"	18½"	2"	18"	¾"X90"	120	24'-0"	9'-0"	#7	12
1 MOD.	7ga, 8"x 6.04"x 14'-0"	4" SCH. 40 GRADE A	18'	7¾"	5¼"	11⅞"	1½"	11"	1¼"x 48"	60	20'-0"	8'-0"	#4	8

NOTES

FABRICATION – ALL PORTIONS OF THE SIGN SUPPORT INCLUDING SIGN ATTACHMENTS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATIONS A-123 AND A-153. THE CONDUIT SHALL BE GALVANIZED IN ACCORDANCE WITH SEC. 625.13 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

✳ FOUNDATION – THE TOP ELEVATION OF FOUNDATION SHALL BE VARIED SO AS TO MAINTAIN A MINIMUM CLEARANCE OF 10' BETWEEN THE BOTTOM OF THE SIGN AND THE HIGHWAY CROWN.

MATERIAL – STEEL POLE BASES, FLANGES, AND END CAPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A 193 GRADE B7. AFTER FABRICATION, TAPERED POLES SHALL HAVE A MINIMUM YIELD STRENGTH OF 45,000 PSI.

SOILS – THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL – REINFORCING STEEL AS SHOWN IN TABLE SHALL BE INSTALLED WHEN "D_T" EXCEEDS THE ANCHOR BOLT LENGTH BY MORE THAN 3 FT. THE COST AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR 816 CONCRETE FOR SIGN SUPPORT FOUNDATION.

DESIGN
THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

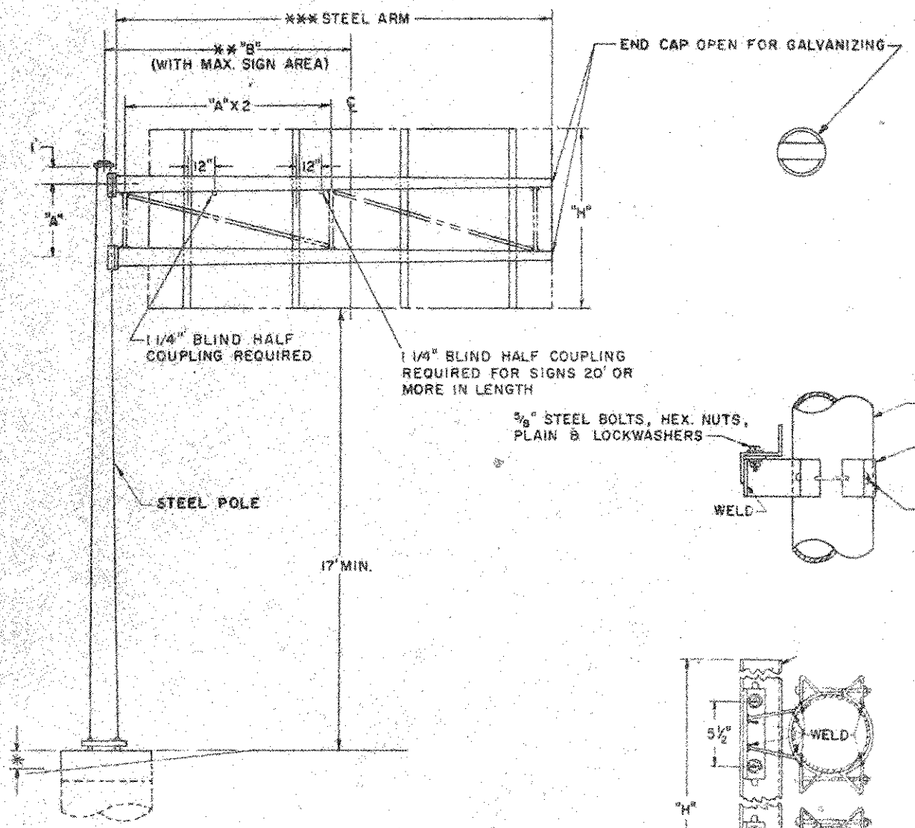
BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORT | 816 No.912 | DATE 1-19-62, 3-30-62, 5-11-70

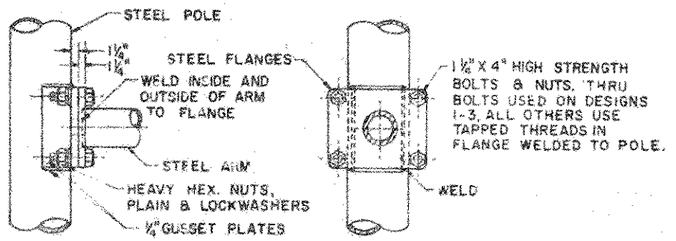
APPROVED Robert E. Lauer
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

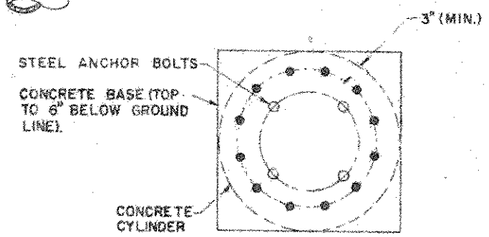
FRA-270-25.33N
FRA-62-20.83

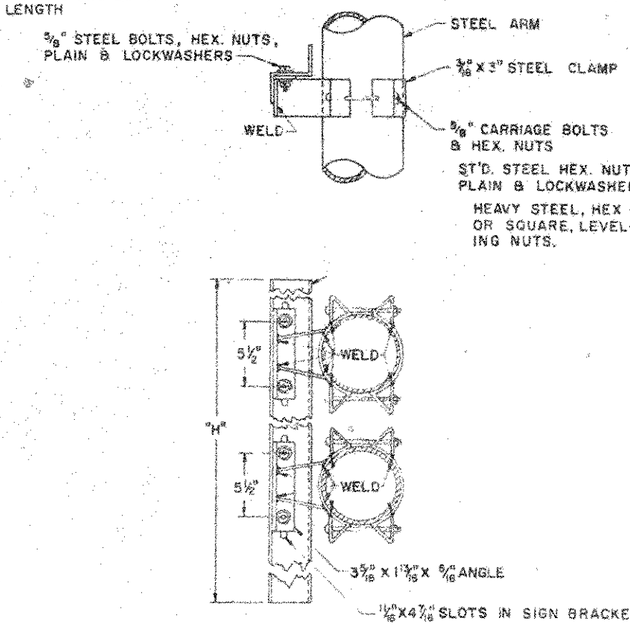


NOTE:
THE 12" DIMENSION SHOWN FOR BLIND HALF COUPLINGS MAY BE INCREASED OR DECREASED WHEN NECESSARY TO TO PREVENT INTERFERENCE WITH OTHER MEMBERS.



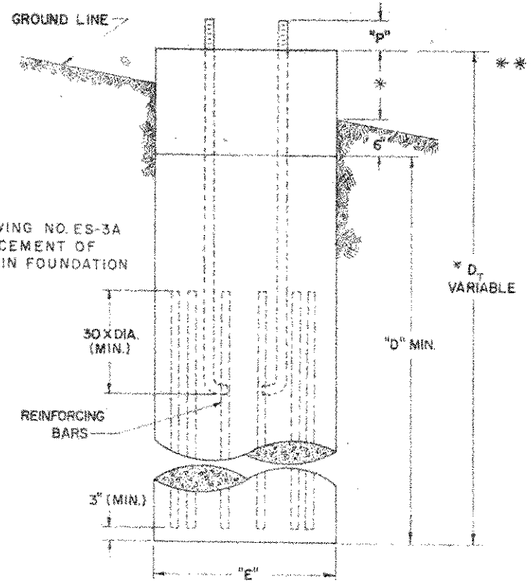
ARM ATTACHMENT





SEE DRAWING NO. ES-3A FOR PLACEMENT OF CONDUIT IN FOUNDATION

POLE BASE DETAIL



FOUNDATION DETAIL

SIGN ATTACHMENT DETAIL

DESIGN NO.	POLE SIZE	*** ARM SIZE	DIM A	DIM ** B	DIM "D" MIN.	DIM E	DIM F	DIM P	DIM * S	DIM T	BOLT CIRCLE	ANCHOR BOLT SIZE	MAX SIGN AREA	REINF BARS SIZE	REINF BARS # REQ'D
1	3 Ga, 12" X 8.76" X 23'-0"	7Ga, 6.9" X 4.66" X 16'-0"	4'	12'	9'	3'-0"	11 5/16"	7¾"	17"	2"	16"	1¾" X 90"	80	¾"	12
2	3 Ga, 12" X 8.78" X 23'-0"	7 Ga, 8" X 5.2" X 20'-0"	4'	16'	9'	3'-0"	11 5/16"	7¾"	17"	2"	16"	1¾" X 90"	80	¾"	12
3	3 Ga, 15" X 11.5" X 25'-0"	7 Ga, 8.3" X 6.06" X 16'-0"	4'	12'	11'	3'-0"	15½"	8⅜"	23"	2"	22"	2" X 96"	120	1"	12
4	3 Ga, 16" X 12.5" X 25'-0"	3 Ga, 9.2" X 6.40" X 20'-0"	4'	16'	11'	3'-0"	16⅝"	8⅜"	24½"	2"	23½"	2" X 96"	120	1"	12
5	0 Ga, 18" X 14.36" X 26'-0"	7 Ga, 11" X 7.92" X 22'-0"	6'	14'	13'	3'-0"	18"	9¾"	26½"	2½"	25½"	2⅛" X 120"	180	1⅛"	12
6	0 Ga, 18" X 14.36" X 26'-0"	7 Ga, 12.5" X 8.86" X 26'-0"	6'	18'	13'	3'-0"	18"	9¾"	26½"	2½"	25½"	2⅛" X 120"	180	1⅛"	12
7	2 PLY 7 Ga, 18" X 14.36" X 26'-0"	7 Ga, 12.5" X 9.14" X 24'-0"	6'	14'	15'	3'-0"	18"	9¾"	26½"	2½"	25½"	2½" X 144"	240	1¼"	12
8	2 PLY ⅛", 18" X 14.36" X 26'-0"	3 Ga, 12.5" X 8.58" X 28'-0"	6'	18'	15'	3'-0"	18"	11¼"	26½"	3"	25½"	3" X 144"	240	1¼"	12

NOTES

FABRICATION - ALL PORTIONS OF THE SIGN SUPPORT, INCLUDING SIGN ATTACHMENTS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. DESIGNATIONS A-123 AND A-153. THE CONDUIT SHALL BE GALVANIZED IN ACCORDANCE WITH SEC 625.13 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS FOR PAYMENT.

* FOUNDATION - THE TOP ELEVATION OF FOUNDATIONS SHALL BE VARIED SO AS TO MAINTAIN A MINIMUM CLEARANCE OF 17' BETWEEN THE BOTTOM OF THE SIGN AND THE HIGHWAY CROWN.

** ERECTION - VALUES OF "B" MAY BE EXCEEDED PROVIDED THE PRODUCT OF ACTUAL SIGN AREA TIMES THE DISTANCE FROM ℄ OF POLE TO ℄ OF SIGN DOES NOT EXCEED THE MAX. SIGN AREA TIMES "B".

*** ARMS 20' LONG OR LONGER ARE TO BE TRUSS TYPE WITH 3" X 3" X ⅜" ANGLES WELDED TO GUSSET PLATES.

MATERIAL - STEEL POLE BASES, FLANGES, AND END CAPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 30 GRADE B. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM SPECIFICATION A193 GRADE B7. AFTER FABRICATION TAPERED POLES AND ARMS SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

SOILS - THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY). FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL - REINFORCING STEEL AS SHOWN IN TABLE SHALL BE INSTALLED WHEN "D," EXCEEDS THE ANCHOR BOLT LENGTH BY MORE THAN 3 FT. THE COST AND PLACEMENT OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS.

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORT

816 No. 12.24

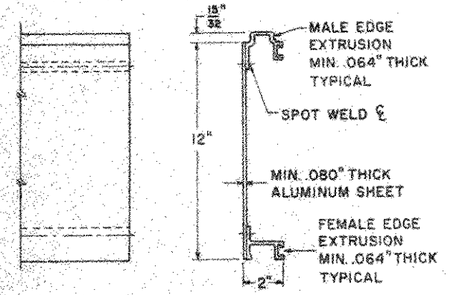
DATE 3-18-64, 4-17-62, 9-18-67

APPROVED Robert E. Turner
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

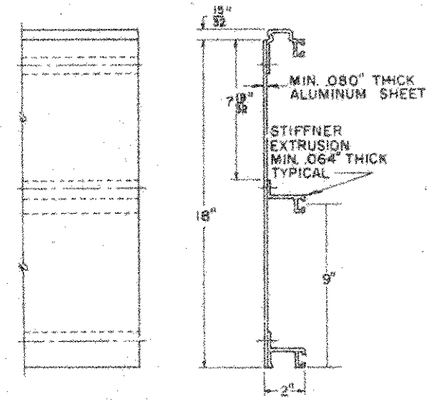
FRA-270-25.33N
FRA-62-20.83

12" EXTRUSHEET PANEL



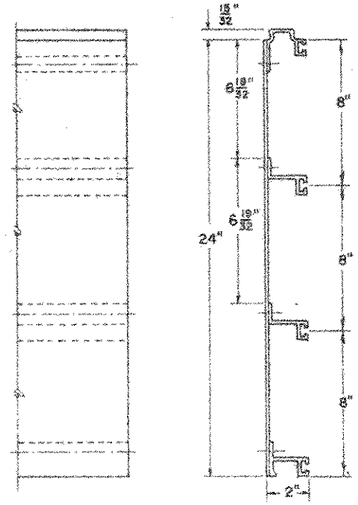
FRONT VIEW SIDE VIEW

18" EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

24" EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

NOTES:

EXTRUSHEET PANELS SHALL BE ALUMINUM; SPOT WELDING AND ALL MATERIALS SHALL CONFORM WITH SUPPLEMENTAL SPECIFICATION

COMBINATIONS OF 12", 18", AND 24" PANELS ARE USED TO ATTAIN REQUIRED SIGN HEIGHT.

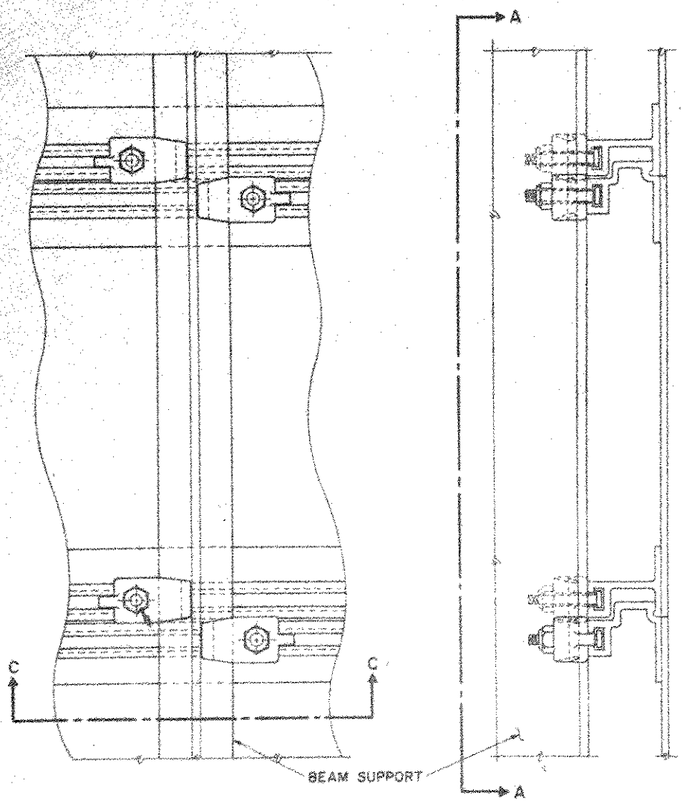
INDIVIDUAL PANELS SHALL BE THE SAME LENGTH AS THE HORIZONTAL LENGTH OF SIGN WITH NO SPLICES.

PANELS SHALL BE INTERLOCKED AND ERECTED WITH THE MALE EXTRUSION LOCATED AT THE TOP EDGE OF THE SIGN.

EXTRUSHEET PANELS SHALL BE FASTENED TO EACH VERTICAL SUPPORT MEMBER WITH MOUNTING CLIPS; ALTERNATELY AT EACH HORIZONTAL EXTRUSION; BOTH SIDES AT EACH JOINT, AND ON BOTH SIDES AT TOP AND BOTTOM EDGE OF SIGN.

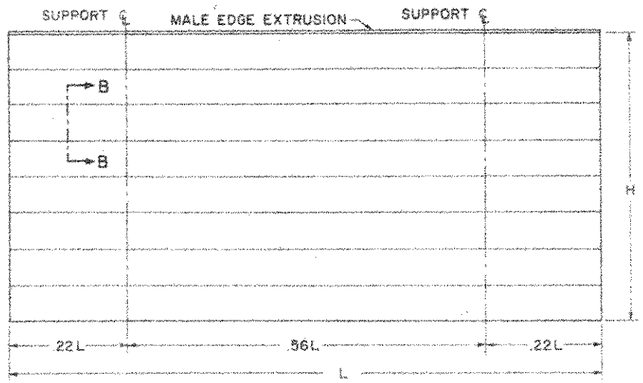
THE PANELS SHALL BE DESIGNED TO WITHSTAND A WIND LOAD OF 35 POUNDS PER SQUARE FOOT, IN ACCORDANCE WITH THE A.A.S.H.O. SPECIFICATION FOR DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS.

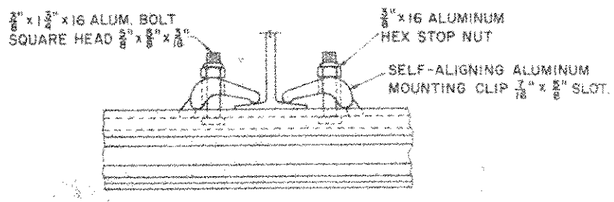
THE MAXIMUM SIGN LENGTH FOR TWO SUPPORTS IS 19'-0".
THE MAXIMUM SIGN LENGTH FOR THREE SUPPORTS IS 29'-0".



SECTION A-A SECTION B-B

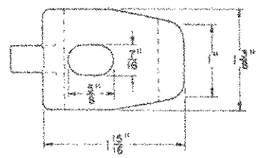
GENERAL ARRANGEMENT





SECTION C-C

CLIP DETAIL





SPOT WELDS

PANEL SIZE	MAXIMUM SPOT WELD SPACING	
	CENTER TO CENTER	BETWN ROWS
12 INCH	4 INCH	10 INCH
18 & 24 INCH	4 INCH	8 INCH

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ALUMINUM EXTRUSHEET PANEL SIGN	ECD 1	DATE 9-25-63 5-19-64 10-21-65

APPROVED _____ ENGINEER OF TRAFFIC

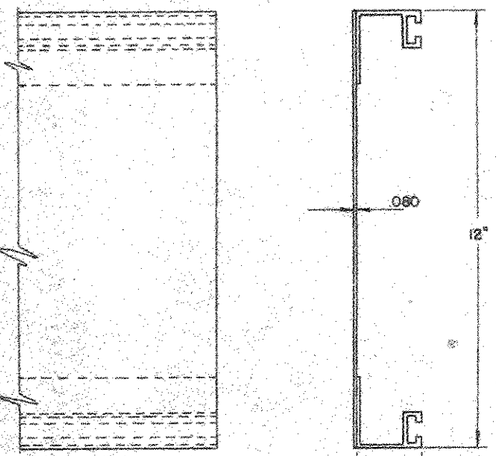
ALUMINUM EXTRUSHEET PANEL SIGN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-68-20.83

24
32

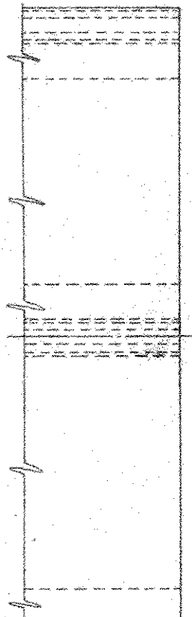
12" BOLTED-EXTRUSHEET PANEL



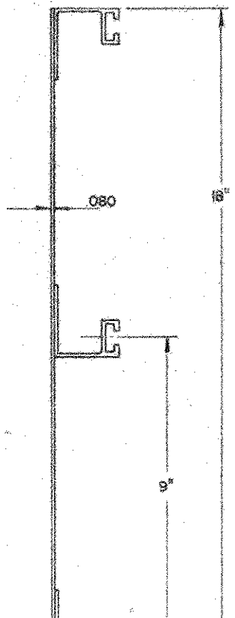
FRONT VIEW

SIDE VIEW

18" BOLTED-EXTRUSHEET PANEL

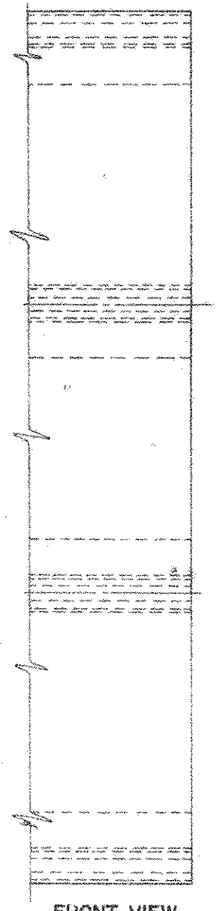


FRONT VIEW

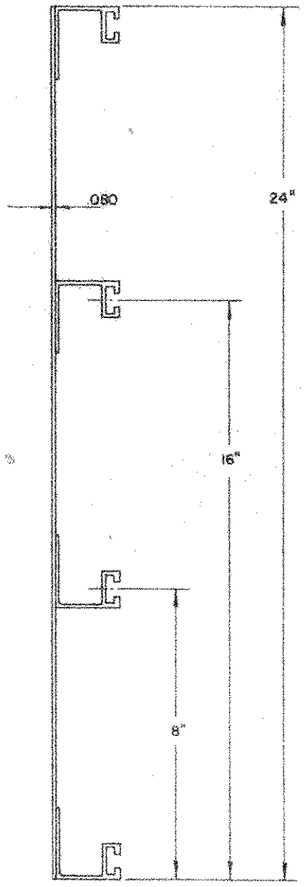


SIDE VIEW

24" BOLTED-EXTRUSHEET PANEL



FRONT VIEW



SIDE VIEW

NOTES

EXTRU-SHEET PANELS SHALL BE ALUMINUM; SPOT WELDING, MATERIALS AND HARDWARE SHALL CONFORM WITH SPECIFICATION NO. 815

COMBINATIONS OF 12", 18" AND 24" PANELS ARE TO BE USED TO ATTAIN REQUIRED SIGN HEIGHT.

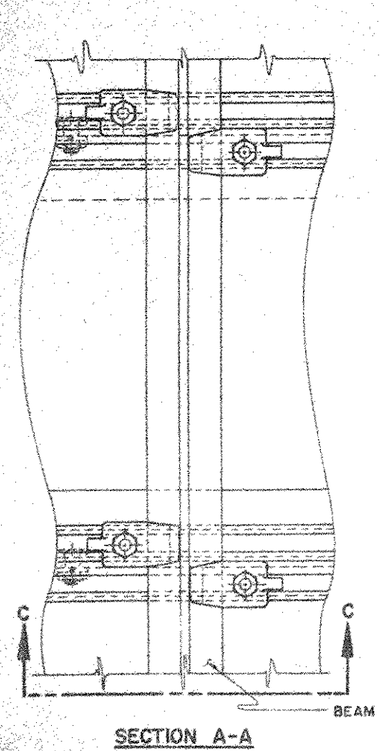
INDIVIDUAL PANELS SHALL BE THE SAME LENGTH AS THE HORIZONTAL LENGTH OF SIGN, WITH NO SPLICES.

THE PANELS SHALL BE ERECTED HORIZONTALLY AND BOLTED ON 24" CENTERS.

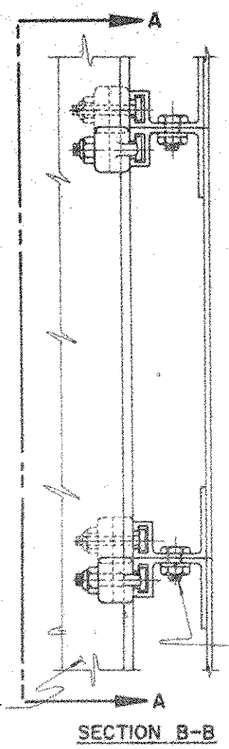
THE PANELS SHALL BE FASTENED TO EACH VERTICAL SUPPORT MEMBER WITH MOUNTING CLIPS; ALTERNATELY AT EACH HORIZONTAL EXTRUSION; BOTH SIDES AT EACH JOINT, AND BOTH SIDES AT TOP AND BOTTOM EDGES OF SIGN.

THE PANELS SHALL BE DESIGNED IN ACCORDANCE WITH THE A.A.S.H.O SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, BASE ON A WIND LOAD OF 35 #/ SQ. FT.

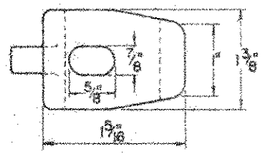
THE MAXIMUM SIGN LENGTH FOR TWO SUPPORTS IS 19'-0"
THE MAXIMUM SIGN LENGTH FOR THREE SUPPORTS IS 29'-0"

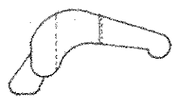


SECTION A-A

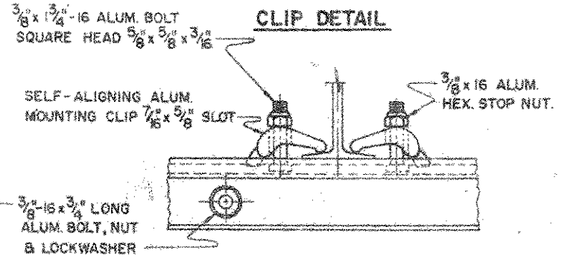


SECTION B-B

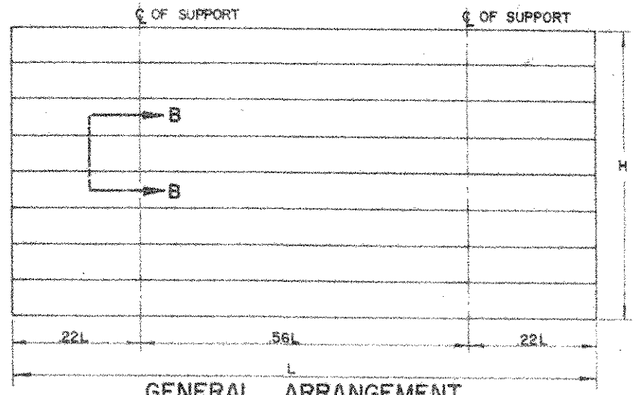




CLIP DETAIL



SECTION C-C



GENERAL ARRANGEMENT

SPOT WELDS

PANEL SIZE	MAXIMUM SPOT WELD SPACING	
	CENTER TO CENTER	BETWN ROWS
12 INCH	4 INCH	10 INCH
18 & 24 INCH	4 INCH	8 INCH

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

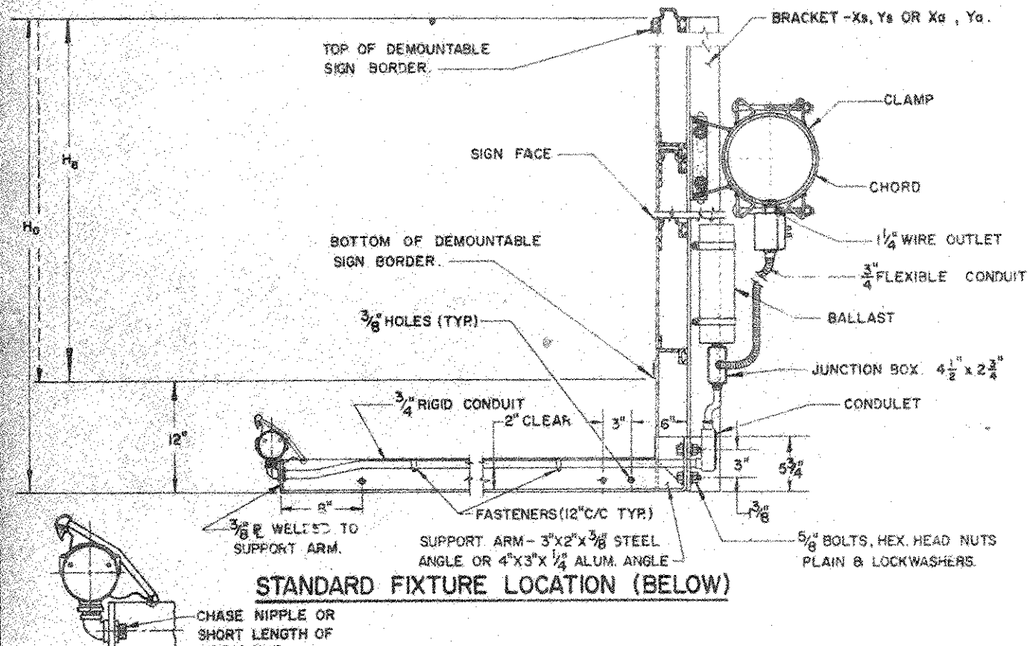
ALUMINUM BOLTED EXTRUSHEET PANEL SIGN	ECD 2	DATE 10-14-68

APPROVED Fred C. Hartz
ENGINEER OF TRAFFIC

ALUMINUM BOLTED-EXTRUSHEET PANEL SIGN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FAS-270-25.33N
FAS-62-20.83



STANDARD FIXTURE LOCATION (BELOW)

FIXTURE CONNECTION WHERE WIRING CONDUIT IS NOT NEEDED.

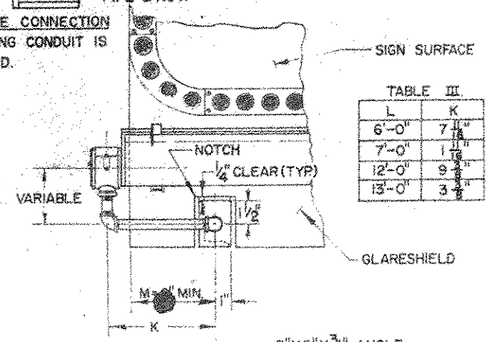
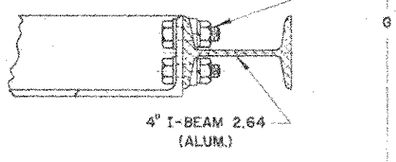


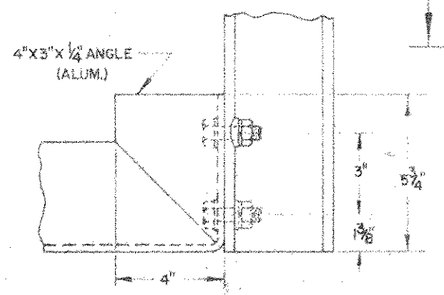
TABLE III

L	K
6'-0"	7 11/16"
7'-0"	1 11/16"
12'-0"	9 3/16"
13'-0"	3 3/8"

ALTERNATE FIXTURE CONNECTIONS FOR SIGN 6', 7', 12' & 13' IN LENGTH.

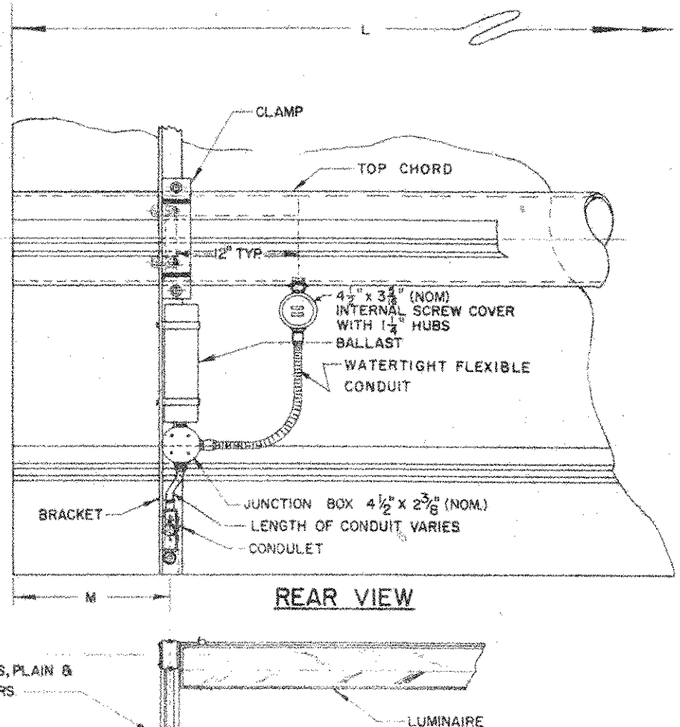
DETAIL A.



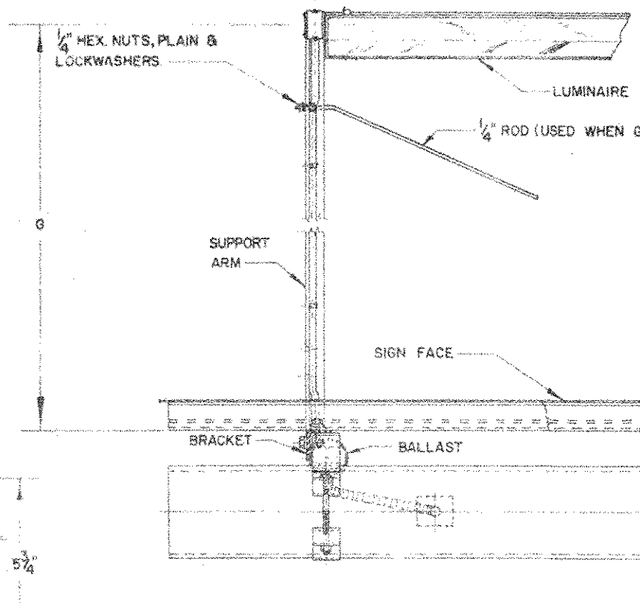


FOR SUPPORTS 7.2-7.6

DETAIL B.



REAR VIEW



TOP VIEW

FABRICATION — ALL STRUCTURAL COMPONENTS SHOWN ON THIS SHEET SHALL CONFORM TO SUPPLEMENT SPECIFICATIONS 815.

MATERIALS — THE MATERIALS USED IN THE COMPONENTS SHOWN ON THIS SHEET SHALL BE IN CONFORMANCE WITH THE MATERIALS USED IN THE SIGN SUPPORT

TABLE I.

"L" SIGN LENGTH		FIXTURES	NUMBER OF	"M" EDGE DISTANCE				NO. BALLAST
				A		B		
A	B	75⅜"	99⅜"	LT.	RT.	LT.	RT.	
6'-0"	7'-0"	1		6"	6"	6"	6"	1
8'-0"	9'-0"	1		10 3/16"	10½"	16 3/16"	16½"	1
10'-0"	11'-0"		1	10 3/16"	10¼"	16 3/16"	16¼"	1
12'-0"	13'-0"	2		6"	6	6	6	1
14'-0"	15'-0"	2		8 3/16"	8 3/16"	14 3/16"	14 3/16"	1
16'-0"	17'-0"	1	1	8 3/16"	8 3/16"	14 3/16"	14 3/16"	1
18'-0"	19'-0"		2	8 3/16"	8 3/16"	14 3/16"	14 3/16"	1
20'-0"	21'-0"	3		7"	6 7/8"	13	12 7/8"	2
22'-0"	23'-0"	2	1	7"	6 7/8"	13	12 7/8"	2
24'-0"	25'-0"	1	2	7"	6 7/8"	13	12 7/8"	2
26'-0"	27'-0"		3	7"	6 7/8"	13	12 7/8"	2

Sn= Nominal Fixture Length, 72" & 96" respectively.
So= Actual Fixture Length, for mounting purposes, 75⅜" and 99⅜" respectively. (Slight variation for different manufacturers.)
M= Distance from edge of sign to ℄ of notch, min. 6". When the length of the sign minus 1'-0" is less than the sum of the actual fixture lengths, an offset "K" is used. For additional details see detail A and table III.

TABLE II

MAX. BRACKET SPACING FOR EXTERNALLY ILLUMINATED SIGNS

ACTUAL SIGN HEIGHT "Ha"	SUPPORT TYPES: 9.12, 11.08, 13.2, 7.2 — SINGLE TUBE DOUBLE TUBE LESS 36" C/C	9.24, 10.48, 12.24, 14.5, 15.8, 7.2 to 7.6 — DOUBLE TUBE C/C 36"-42"	C/C 46"-54"	C/C 60"-72"
	MAXIMUM BRACKET SPACING			
to 5'-0"	6'-4" with X, 8'-4" with Y	8'-4" with X	8'-4" with X	6'-4" with X
5'-6" to 8'-0"	6'-4" with Y	4'-2" with X, 6'-4" with Y	6'-4" with X, 8'-4" with Y	8'-4" with X
8'-6" to 10'-0"	3'-2" with X, 4'-2" with Y	6'-4" with Y	6'-4" with Y	6'-4" with Y
10'-6" to 12'-0"	———	4'-2" with Y	6'-4" with Y	6'-4" with Y
12'-6" to 14'-0"	———	3'-2" with Y	3'-2" with Y	4'-2" with Y

Ha= ACTUAL SIGN HEIGHT
He= EFFECTIVE SIGN HEIGHT
BRACKET SIZE: Xs = 3½" x 2½" x 5/16" — L @ 6.1 LB. STEEL; Ys = 4" x 3 1/16" x ¼" — Z @ 8.2 LB. STEEL } 9.12, 10.48, 11.08, 12.24, 14.5 & 15.8
Xa = 3" x 2 1/16" x ¼" — Z @ 2.33 LB. ALUM.; Ya = 4" x 2 21/32" x 3/16" — I @ 2.64 LB. ALUM. } 7.2 Thru 7.6

WHEN MAX. ALLOWABLE SPACING IS LESS THAN ACTUAL FIXTURE LENGTHS, So, ADDITIONAL STANDARD BRACKETS MUST BE FURNISHED, EQUAL IN HEIGHT TO "Ha".

SUPPORTS 7.2 THROUGH 7.6 SHALL HAVE AN ALUMINUM FIXTURE ARM, 4"X3"X¼" ANGLE. SEE DETAIL B. BOLTS AND ACCESSORIES SHALL BE STAINLESS STEEL.

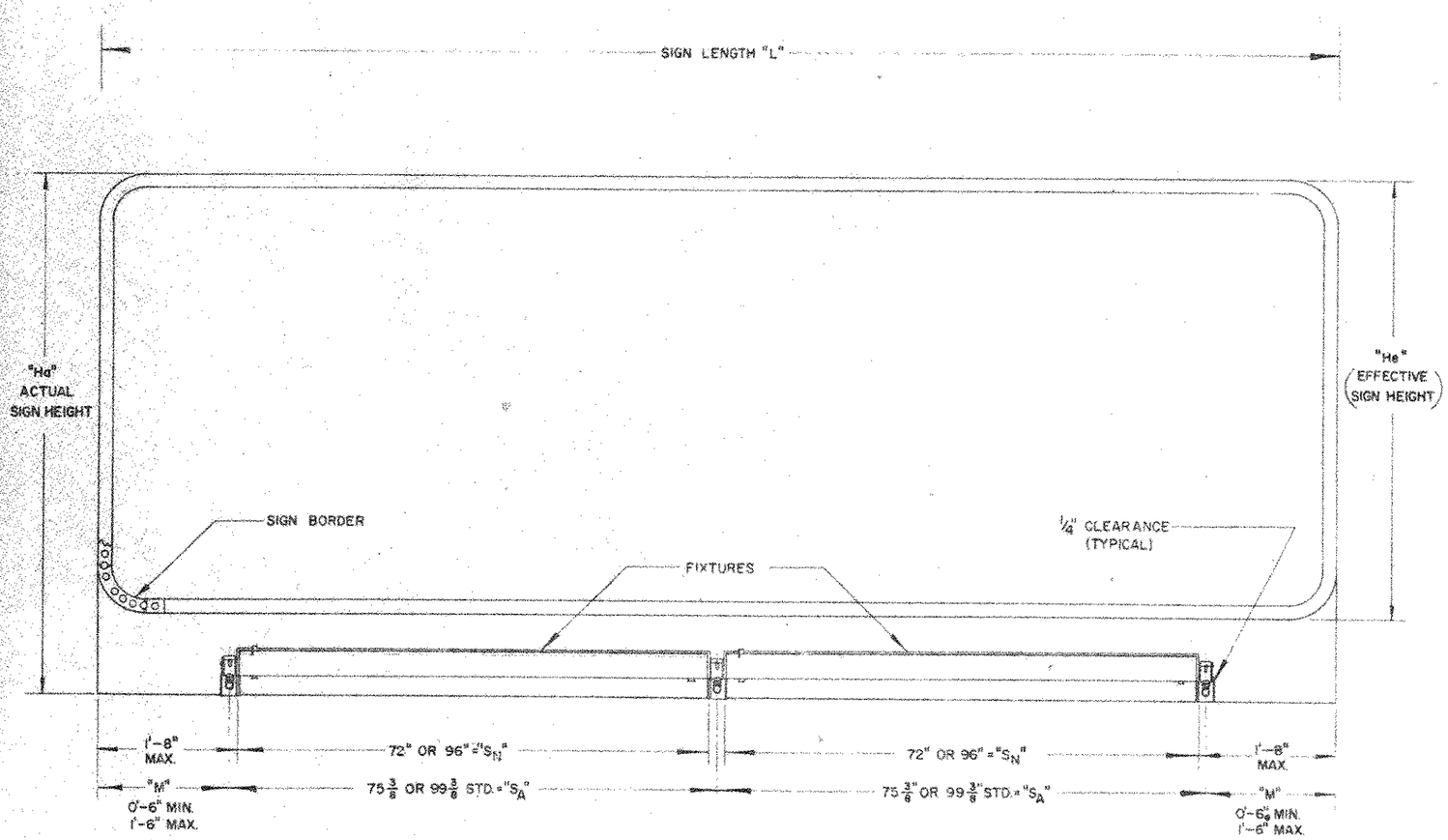
BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

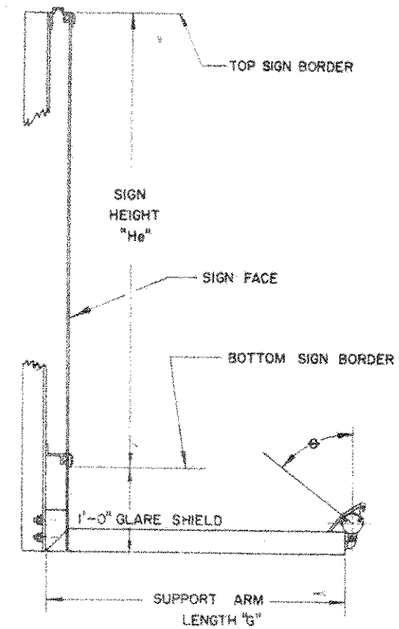
STRUCTURAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS — EI-1

APPROVED _____ ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.33W
FRA-42-20.69





SIGN LIGHTING NOTES

SIGN ILLUMINATION

SIGN ILLUMINATION SHALL BE BY ATTACHED FLUORESCENT FIXTURES AS SHOWN ON ILLUMINATED SIGN DETAIL SHEETS.

LAMPS

LAMPS SHALL BE TYPE F72 OR F96-T12/CW/HO AS MANUFACTURED BY WESTINGHOUSE, GENERAL ELECTRIC OR APPROVED EQUAL FOR SIGNS TO A MAXIMUM HEIGHT OF 6'-6". LAMP TYPE SHALL BE F72 OR F96-T12/CW/SHO AS MANUFACTURED BY WESTINGHOUSE, F72 OR F96-P617/CW AS MANUFACTURED BY GENERAL ELECTRIC OR APPROVED EQUAL FOR SIGNS THAT ARE 7'-0" OR GREATER IN HEIGHT.

LAMP FIXTURES

LIGHTING FIXTURES SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS OR WITH HIGH QUALITY CORROSION RESISTANT FINISH. ALL FIXTURES SHALL BE SPECIFICALLY DESIGNED FOR OUTDOOR SIGN LIGHTING SERVICE. MAJOR COMPONENTS SHALL INCLUDE WEATHERPROOF CAST ALUMINUM MOUNTING HUBS DESIGNED TO SECURELY LOCK THE FIXTURES AT ANY ANGLE THROUGH 360 DEGREES. INDICATORS IN 10 DEGREE INCREMENTS SHALL BE STAMPED OR CAST INTO THE HUB TO FACILITATE PROPER AIMING OF THE FIXTURE. FINAL ADJUSTMENT OF FIXTURE SHALL BE DONE AT NIGHT UNDER THE PROJECT ENGINEER'S DIRECTION.

THE BODY DESIGN OF THE FIXTURE SHALL PROVIDE AN ASYMMETRIC SPECULAR ALZAK REFLECTOR TO GIVE A HIGH LEVEL OF UNIFORM ILLUMINATION AND SHALL PROVIDE A WIREWAY FROM END TO END. WHEN ADJACENT FIXTURES ARE WIRED TOGETHER THROUGH THE WIREWAY, WIRE BETWEEN FIXTURES SHALL BE ENTIRELY ENCLOSED.

EXTERIOR FINISH OF THE FIXTURE BODY SHALL BE INTERSTATE GREEN COLOR, HEAT RESISTANT BAKED ENAMEL AS #8950 UNIVERSAL PAINT AND VARNISH INC., OR MIDWESTERN COLOR WORKS, OR APPROVED EQUAL. REFLECTOR, LAMP AND SOCKETS SHALL BE PROTECTED BY A HINGED DOOR OF CLEAR ACRYLIC PLASTIC WITH ALUMINUM OR STAINLESS STEEL FRAME AND NEOPRENE GASKETING.

BALLASTS

BALLASTS FOR FIXTURES SHALL BE WEATHER-PROOF OUTDOOR TYPE FOR A 120 VOLT 60 CYCLE SYSTEM AND SHALL PROVIDE LAMP STARTING AT AN AMBIENT TEMPERATURE OF -20°F. BALLASTS SHALL BE MOUNTED ON SIGN BRACKET ONLY. WIRING SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT THE SIGN MAY BE REMOVED WITHOUT DISTURBING THE ELECTRICAL WIRING.

EFFECTIVE SIGN HEIGHT "H"	SUPPORT ARM LENGTH "G"	APPROX. AIMING ANGLE θ
3'-0" to 5'-0"	2'-9"	25°
5'-0" to 6'-6"	3'-3"	25°
7'-0" to 10'-0"	4'-3"	17°
10'-6" to 13'-0"	5'-9"	23°

"L" SIGN LENGTH	NO. OF FIXTURES			He=3'-0" to 6'-6" LAMP=T12/cw/ho			He=7'-0" to 13'-0" LAMP= T12/cw/sho		
	72	96		BALLAST NO.	BALLAST TYPE	WATTAGE PER SIGN	BALLAST NO.	BALLAST TYPE	WATTAGE PER SIGN
6'-0" to 7'-0"	1			1	A	190	1	C	250
8'-0" to 9'-0"	1			1	A	190	1	C	250
10'-0" to 11'-0"		1		1	A	190	1	C	250
12'-0" to 13'-0"	2			1	B	250	1	D	425
14'-0" to 15'-0"	2			1	B	250	1	D	425
16'-0" to 17'-0"	1	1		1	B	250	1	D	425
18'-0" to 19'-0"		2		1	B	250	1	D	425
20'-0" to 21'-0"	3			2	A&B	440	2	C&D	675
22'-0" to 23'-0"	2	1		2	A&B	440	2	C&D	675
24'-0" to 25'-0"	1	2		2	A&B	440	2	C&D	675
26'-0" to 27'-0"		3		2	A&B	440	2	C&D	675

BALLASTS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	WATTAGE
A	GG 3583	257-321	190
B	GG 3535	257-331	250
C	GG 3585	257-361	250
D	GG 3588	257-371	425

BALLASTS SHALL BE GENERAL ELECTRIC, JEFFERSON AS SPECIFIED ABOVE OR EQUAL.

TRANSFORMERS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	OUTPUT K.V.A.	SWITCH TRANSFORMER ENCLOSURE
I	9T51Y7	220-241	.25	Y
II	9T51Y8	220-251	.50	Y
III	9T51Y9	220-261	.75	Y
IV	9T51Y10	220-071-100	1.00	Z
V	9T51Y11	220-081-100	1.50	Z
VI	9T51Y12	220-091-100	2.00	Z
VII	9T51Y13	221-102	3.00	Z

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ELECTRICAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS

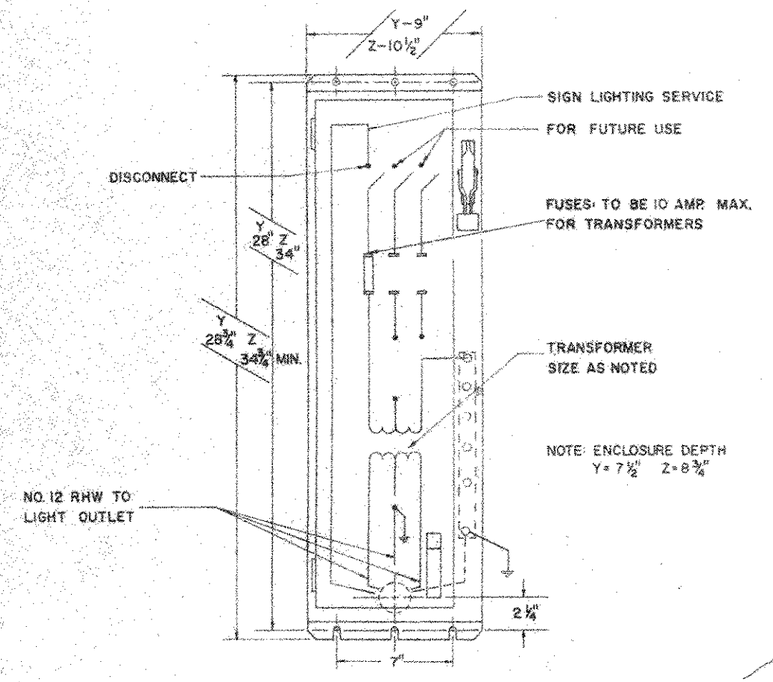
EI-2

DATE
10-31-62
5-6-64
10-29-66
03-29-67

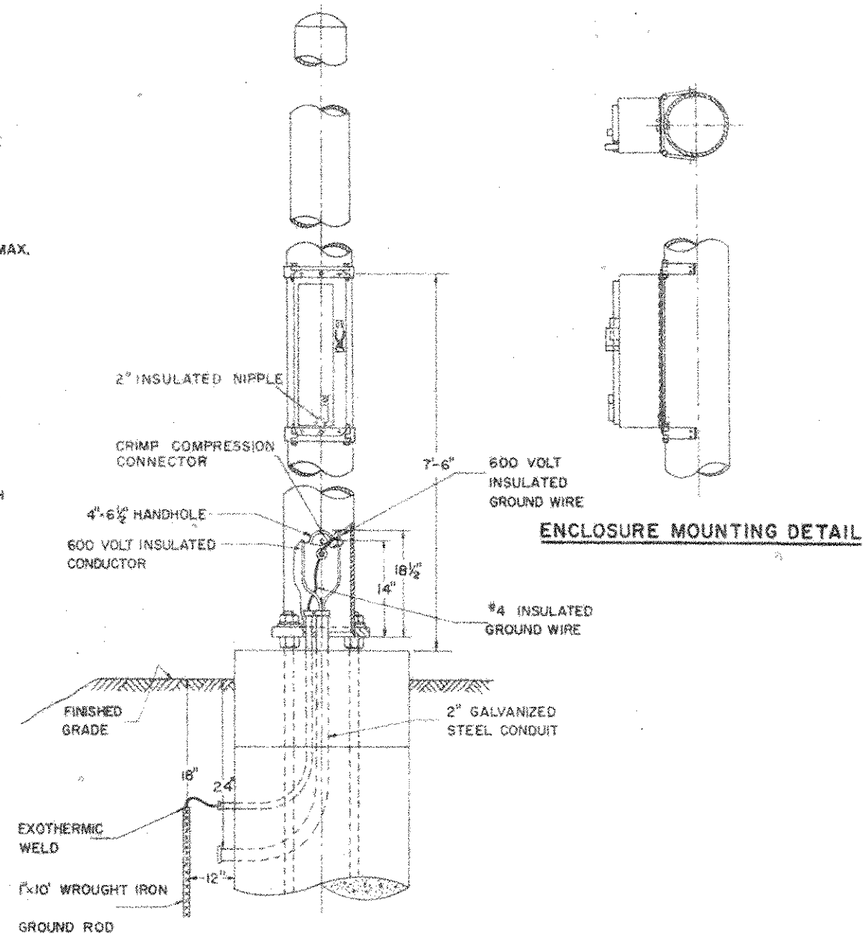
APPROVED _____
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.53 N
FRA-62-20.89

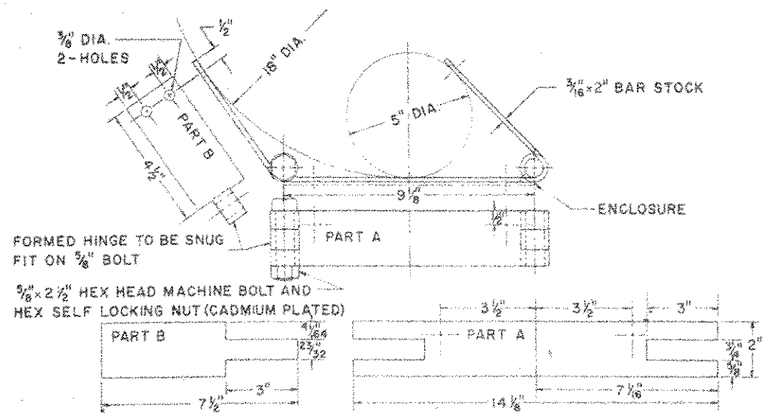


TYPICAL ENCLOSURE DETAIL
480 VOLT SIGN LIGHTING SERVICE

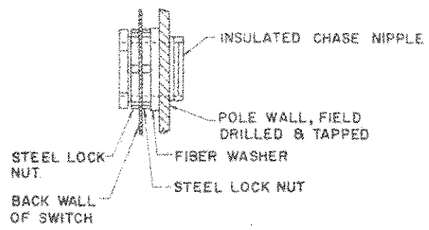


SIGN SUPPORT DETAIL FOR ILLUMINATED SIGNS

ENCLOSURE MOUNTING DETAIL



ENCLOSURE MOUNTING BRACKET



INSULATED CHASE NIPPLE ASSEMBLY
AS MANUFACTURED BY THOMAS BETTS, APPELTON, STEEL CITY OR EQUAL

NOTES

GENERAL

DETAILS OF THIS SHEET SHALL APPLY TO EACH OVERHEAD SIGN STRUCTURE TO SUPPORT EXTERNALLY ILLUMINATED SIGNS.

SERVICE

ELECTRIC SERVICE SHALL ENTER THROUGH A 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN STRUCTURE FOUNDATION AS PER DETAIL. SIGN SERVICE OR CIRCUITRY SHALL BE CONTROLLED AS REQUIRED BY THE SYSTEM DESIGN AT THE PRIMARY SOURCE.

SERVICE CONDUCTORS SHALL BE THE SIZE AND TYPE AS SPECIFIED.

COMBINATION SWITCH AND TRANSFORMER

(TYPE Y OR Z ENCLOSURE REQUIRED AS PER SCHEDULE ON THIS SHEET)

THIS COMBINATION SHALL BE A 30 OR 60 AMPERE 600 VOLT SWITCH WITH A .25 TO 3.0 KVA TRANSFORMER. THE COMBINATION AND ENCLOSURE SHALL BE AS SQUARE D CLASS 9421, COLUMBUS ELECTRIC WORKS CLASS 101, PANALS INCORPORATED—CLASS 9400, OR APPROVED EQUAL.

TRANSFORMER

THE TRANSFORMER SHALL BE DRY TYPE SINGLE PHASE 240/480 VOLT PRIMARY 120/240 VOLT SECONDARY, THE TYPE AND CAPACITY AS SPECIFIED IN DETAILED SCHEDULE ON THIS SHEET.

ENCLOSURE

THE ENCLOSURE SHALL BE NEMA #4 WATER TIGHT .063 GAGE STAINLESS STEEL ASTA 302—303. A DISCONNECT HANDLE SHALL BE FLANGE MOUNTED AND CAPABLE OF BEING LOCKED IN EITHER POSITION. THE ENCLOSURE SHALL BE EQUIPPED WITH A DOOR LOCKING MECHANISM WITH A DEFEATER THAT NECESSITATES TWO HANDS TO OPERATE MECHANISM WITH THE SWITCH IN OFF POSITION. SPACE FOR A 2" INSULATED CHASE NIPPLE SHALL BE PROVIDED APPROXIMATELY 2 ¼" ABOVE THE CENTER LINE OF THE LOWER MOUNTING SLOT. THIS ENCLOSURE AND STRUCTURE SHALL BE FIELD DRILLED AND TAPPED FOR THE REQUIRED NIPPLE AS SHOWN ON THE DETAIL ON THIS SHEET.

THIS ENCLOSURE SHALL BE FLANGE MOUNTED ON BRACKETS WITH ⅝—18×¾" HEX HEAD CADMIUM PLATED MACHINE BOLTS. ENCLOSURES SHALL BE TYPE Y OR Z AS SPECIFIED AND DIMENSIONED ON THIS SHEET.

ENCLOSURE MOUNTING BRACKET

THE ENCLOSURE MOUNTING BRACKET SHALL BE FABRICATED THEN GALVANIZED BEFORE ASSEMBLY. THE BRACKET SHALL BE FIELD MOUNTED WITH ⅝" HEX HEAD SELF TAPPING CADMIUM PLATED SCREWS. THE SIGN SUPPORT SHALL BE FIELD DRILLED, AS PER DETAIL.

WIRE AND CABLE

ALL WIRE AND CABLE UP TO AND INCLUDING #4 SHALL COMPLY WITH FAA TYPE A SPECIFICATIONS. #2 OR LARGER WIRE OR CABLE SHALL BE G.E. 58006 OR ANACONDA AP-10711, OR EQUAL. ALL WIRE AND CABLE SHALL BE 600 VOLT.

GROUNDING

EACH SIGN SUPPORT OR STRUCTURE SHALL BE GROUNDED WITH A #4 RUBBER INSULATION AND NEOPRENE JACKETED CONDUCTOR. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE SWITCH THEN TO THE COMPRESSION CONNECTOR IN THE SIGN SUPPORT THEN TO A 1"×10' SOLID WROUGHT IRON GROUND ROD. GROUND CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO GROUND ROD AND THEN TAPED WITH PLASTIC ELECTRICAL TAPE AT EACH EXPOSED PORTION OF CONDUCTOR. THE WELDED CONNECTION AND TAPED PORTION SHALL BE PAINTED 2 COATS OF INSULATING ENAMEL.

TRANSFORMERS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	OUTPUT K.V.A.	SWITCH TRANSFORMER ENCLOSURE
I	9T51Y7	220-241	.25	Y
II	9T51Y8	220-251	.50	Y
III	9T51Y9	220-261	.75	Y
IV	9T51Y10	220-071-100	1.00	Z
V	9T51Y11	220-081-100	1.50	Z
VI	9T51Y12	220-091-100	2.00	Z
VII	9T51Y13	221-102	3.00	Z

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

ELECTRICAL SIGN SERVICE DETAILS 480 VOLT SYSTEM

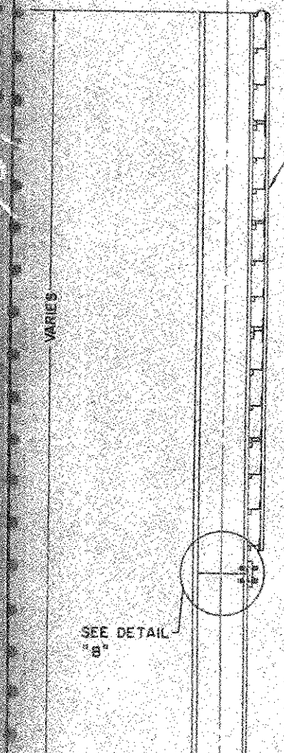
ES-3A

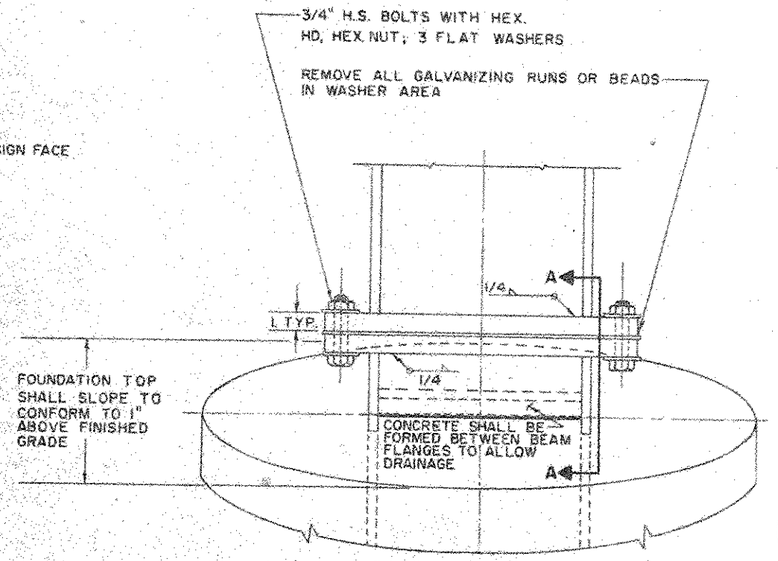
DATE 6-18-65

APPROVED _____
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.85

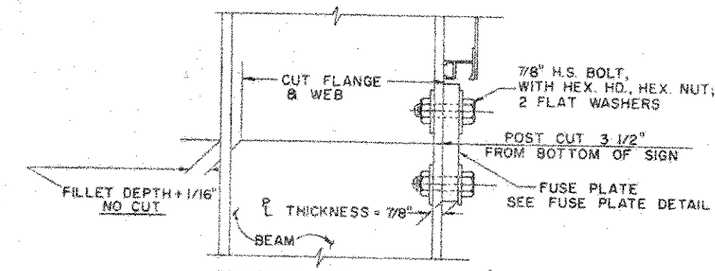




BOLTING PROCEDURE

1. ASSEMBLE POST TO STUB W/BOLTS & ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES.
2. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE W/12" TO 15" WRENCH TO BED & TO CLEAN BOLT THREADS. LOOSEN EACH BOLT IN TURN & RETIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE OF 750 IN. LBS.
3. BURR THREADS AT JUNCTION W/NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

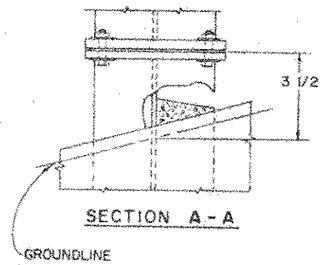
NOTE: TIGHTEN THE H.S. BOLTS IN THE BASE CONNECTION ONLY TO GIVEN TORQUE DO NOT OVER TIGHTEN

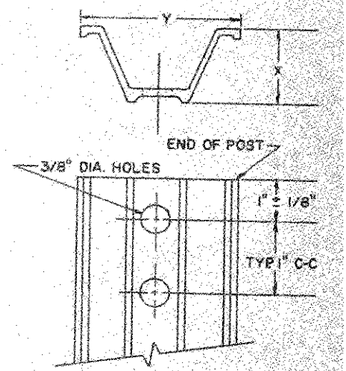


FABRICATOR NOTE: ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN THE SHOP FOLLOWING A METHOD APPROVED BY THE ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO OBTAIN MINIMUM RESIDUAL TENSION IN EACH BOLT OF 36,050 LBS.

NOTE: INSTALL FUSE PLATE WITH NOTCHES TOWARD BASE

DETAIL "B"

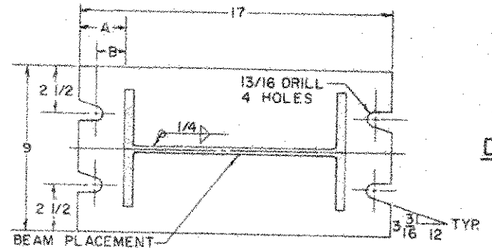




WEIGHT PER FOOT	X ± 3/32"	Y ± 1/8"
2.00 #	1 15/32"	3 1/16"
3.00 #	1 7/8"	3 1/2"
4.00 #	2"	3 5/8"

DRIVE POST DETAIL

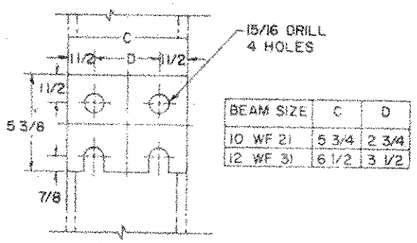
NOTE: THE FOUNDATION FOR 4# DRIVE POST IS SIMILAR TO THE FOUNDATION SHOWN FOR 6# & 8# BEAM



BEAM SIZE	A	B
10 WF 21	3 1/2	2 5/8
12 WF 31	2 1/2	1 5/8

BASE PLATE DETAIL

(TOP VIEW)



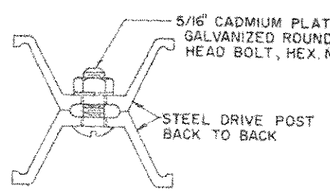
BEAM SIZE	C	D
10 WF 21	5 3/4	2 3/4
12 WF 31	6 1/2	3 1/2

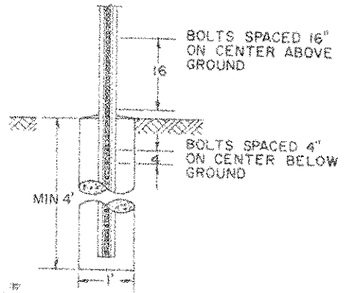
FUSE PLATE DETAIL

NOTES: ALL MATERIALS SHALL CONFORM TO THE STATE OF OHIO, CONSTRUCTION & MATERIALS SPECIFICATIONS OR AS OTHERWISE SPECIFIED

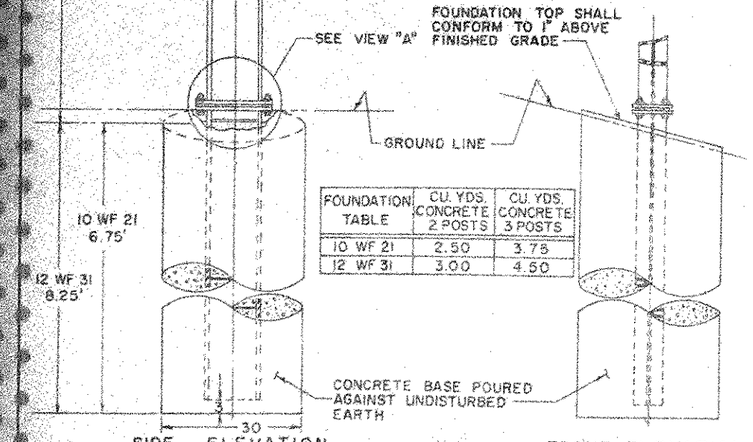
1) 511 FOUNDATIONS
2) 711.01 STRUCTURAL STEEL SHAPES & PLATES
3) 711.09 H.S. STEEL BOLTS, NUTS & WASHERS

ALL DIMENSIONS IN INCHES UNLESS OTERWISE SHOWN





6# & 8# BEAM DETAIL

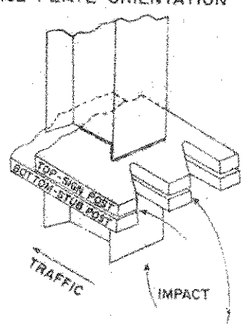


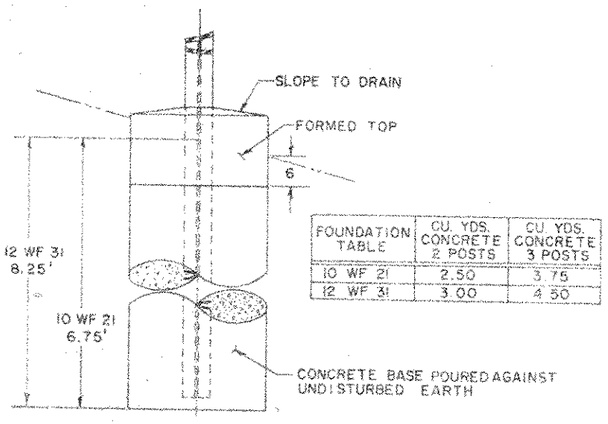
FOUNDATION TABLE	CU. YDS. CONCRETE 2 POSTS	CU. YDS. CONCRETE 3 POSTS
10 WF 21	2.50	3.75
12 WF 31	3.00	4.50

SIDE ELEVATION — FRONT ELEVATION

BREAK-AWAY SUPPORT

BREAKAWAY SIGN SUPPORT BASE PLATE ORIENTATION





FOUNDATION TABLE	CU. YDS. CONCRETE 2 POSTS	CU. YDS. CONCRETE 3 POSTS
10 WF 21	2.50	3.75
12 WF 31	3.00	4.50

FRONT ELEVATION STANDARD SUPPORT

STRUCTURAL SUPPORTS

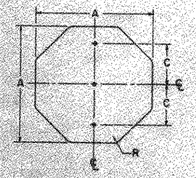
BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

GROUND MOUNTED SIGN SUPPORTS

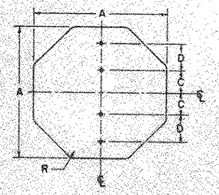
GMSS

DATE 5-10-6 7-12-6 5-23-6

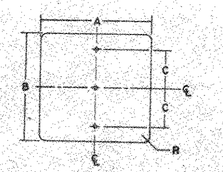
APPROVED _____ ENGINEER OF TRAFFIC



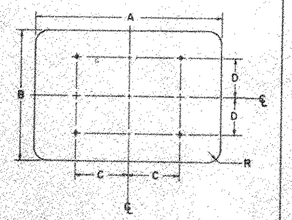
A	C	R	GAUGE
30	8	1 1/2	.080
36	8	1 1/2	.080



A	C	D	R	GAUGE
48	8	10	1 1/2	.100

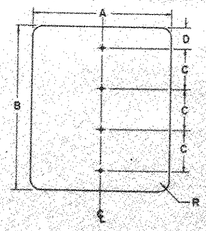


A	B	C	R	GAUGE
24	30	8	1 1/2	.063
24	48	15	1 1/2	.100
30	36	11	1 1/2	.080
30	42	12	1 1/2	.080
36	36	11	1 1/2	.080
36	42	15	1 1/2	.080
36	48	15	1 1/2	.080
48	24	10	3	.100
48	36	13	3	.100



A	B	C	D	R	GAUGE
48	48	22	16	3	.100
48	60	22	22	3	.100

SPEED LIMIT SIGNS ON TWO SUPPORTS

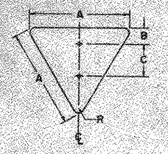


A	B	C	D	R	GAUGE
48	48	12	6	3	.100
48	60	15	7 1/2	3	.100

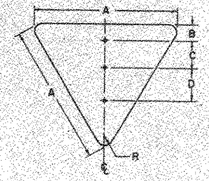
FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39M
FRA-62-20.88

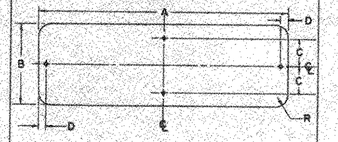
23 32



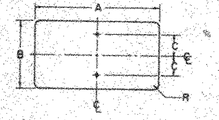
A	B	C	R	GAUGE
36	3	16	2 1/2	.080



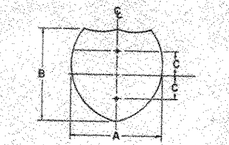
A	B	C	D	R	GAUGE
48	4	10	15	3	.100
60	5	10	15	4	.100



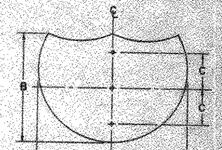
A	B	C	D	R	GAUGE
36	12	4	1	1 1/2	.080
72	12	—	16	1 1/2	.100
60	12	—	13	1 1/2	.100



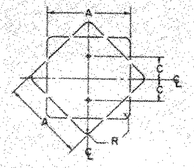
A	B	C	R	GAUGE
12	6	1 1/2	1 1/2	.063
20	15	6	1 1/2	.063
24	12	4 1/2	1 1/2	.063
24	18	7 1/2	1 1/2	.063
8	26	8	1	.063
36	18	7 1/2	1 1/2	.080



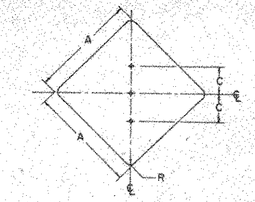
A	B	C	GAUGE
24	24	8	.063
30	24	8	.080



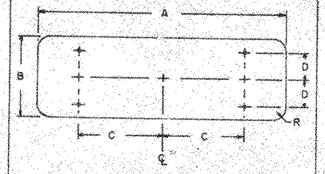
A	B	C	GAUGE
36	36	11	.080
48	36	11	.100



A	C	R	GAUGE
18	7 1/2	1 1/2	.063
24	8	1 1/2	.063
30	8	1 1/2	.080

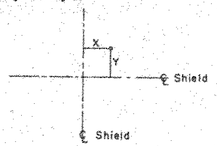


A	C	R	GAUGE
36	12	1 1/2	.080
48	14	3	.100



A	B	C	D	R	GAUGE
72	18	20	6	1 1/2	.100
72	24	20	8	1 1/2	.100
60	30	17	10	1 1/2	.100
96	18	27	6	1 1/2	.100

Location of holes on "Demountable Shields" (attached to guide signs)



SIZE	NO. HOLES	X	Y
(26) 24X24	4	7	7
30X24	4	8	8
(39) 36X36	4	10	10
		0	10
48X36	6	15	10

For notes on fastening see drawing for miscellaneous "Signing Items" sheet.

NOTES:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

MATERIAL

FLAT SIGN BLANKS SHALL BE FURNISHED IN ALUMINUM ALLOY 6061-T6, (ASTM-B209, GS11A-T6) WITH MILL FINISH.

BOLT HOLES

THE BOLT HOLES SHALL BE 3/8" IN DIAMETER, AND MAY BE DRILLED, BLANKED OR PUNCHED TO FINISHED SIZE.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

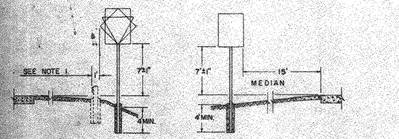
SIGN BLANK DETAILS

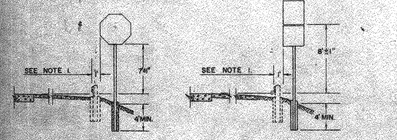
SBD

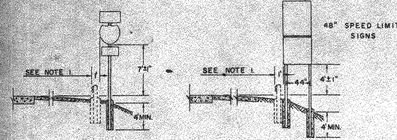
DATE
4-14-67
5-10-68
10-1-68
5-27-69
6-18-69

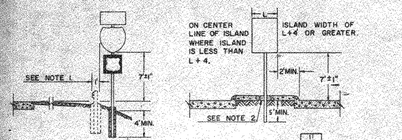
APPROVED
ENGINEER OF TRAFFIC

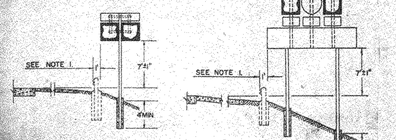
29 31

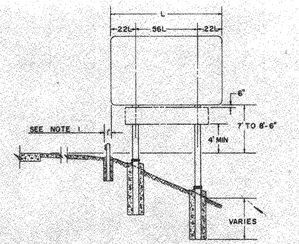


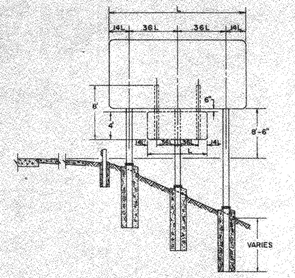


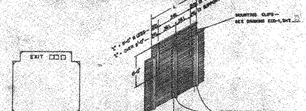




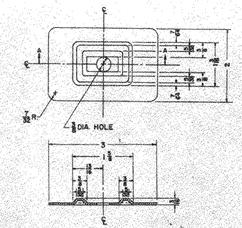






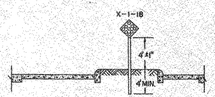


"EXIT" SIGN ATTACHMENT DETAIL



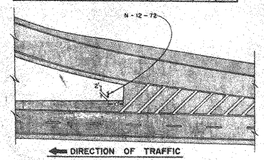
NOTE:
THE PLATE IS SYMMETRICAL ABOUT EITHER CENTERLINE.
METAL SHALL BE 16 GAUGE STEEL.
ALL DIMENSIONS ARE IN INCHES.

BEARING PLATE DETAIL



SIGN SUPPORT SPACING

L+4'	2 SUPPORTS -22	2 SUPPORTS -36	3 SUPPORTS -14	3 SUPPORTS -36	L+4'	2 SUPPORTS -22	2 SUPPORTS -36	3 SUPPORTS -14	3 SUPPORTS -36
5.0	1.10	2.60	0.70	1.80	17.0	3.74	9.32	2.35	6.18
6.0	1.32	3.18	0.84	2.15	18.0	3.96	10.09	2.51	6.48
7.0	1.54	3.92	0.98	2.52	19.0	4.18	10.64	2.69	6.64
8.0	1.76	4.48	1.12	2.88	20.0			2.80	7.20
9.0	1.98	5.04	1.26	3.24	21.0			2.84	7.56
10.0	2.20	5.90	1.40	3.60	22.0			3.06	7.92
11.0	2.42	6.16	1.54	3.96	23.0			3.22	8.28
12.0	2.64	6.72	1.68	4.32	24.0			3.36	8.64
13.0	2.86	7.28	1.82	4.68	25.0			3.50	9.00
14.0	3.08	7.84	1.96	5.04	26.0			3.68	9.36
15.0	3.30	8.40	2.10	5.40	27.0			3.78	9.72
16.0	3.52	8.96	2.24	5.76	28.0			3.92	10.08



SEQUENCE NO.	STATE	PROJECT	
2	OHIO		

FAS-220-25.59W
FAS-66-20.85

NOTES

1. THE NEAR EDGE OF ALL MAIN LINE SIGNS, EXCEPT GORE INSTALLATIONS, SHALL BE LOCATED ONE FOOT (1') BACK OF GUARD RAIL FACE. THIS DIMENSION SHALL BE DETERMINED BY ROADWAY TYPICAL SECTION & USED WHETHER OR NOT GUARD RAIL IS PRESENT.
   ON RAMPS THE NEAR EDGE OF SIGNS SHALL BE LOCATED ONE FOOT (1') BACK OF GUARD RAIL FACE. THIS DIMENSION WILL BE DETERMINED AND USED AS FOR MAIN LINE ABOVE.
   ON APPROACHES THE NEAR EDGE OF SIGNS SHALL BE
   (A) ONE FOOT (1') BEHIND EXISTING GUARD RAIL
   (B) TWO FEET (2') FROM THE EDGE OF PAVED OR TRAVELED SHOULDER WITH A MINIMUM OF 6' FROM EDGE OF ROADWAY PAVEMENT.

2. POSTS PLACED IN CONCRETE MEDIANS SHALL BE INSTALLED BY DRIVING THROUGH A 6" SLEEVE OR CORE DRILLED HOLE. THE HOLE SHALL BE FILLED WITH ASPHALT OR PORTLAND CONCRETE AFTER THE POST IS IN THE PROPER POSITION.

3. HORIZONTAL BACK BRACING SHALL ALWAYS BE MOUNTED ON THE FRONT FLANGE OF THE SUPPORT EXCEPT WHERE SIGNS ARE MOUNTED BACK TO BACK. BACK BRACING SHALL NEVER EXTEND ABOVE TOP EDGE OF UPPERMOST SIGN PLATE AND SHALL BE ATTACHED TO SUPPORTS USING 5/16" GALVANIZED STEEL BOLTS.

4. SCREWS, NUTS, AND WASHERS FOR SIGN ERECTION SHALL BE ALUMINUM EXCEPT AS NOTED ABOVE. 5/16" TRUSS HEAD SLOTTED MACHINE SCREWS WITH HEX. NUTS PLAIN AND LOCKWASHERS SHALL BE USED. PLAIN WASHERS SHALL BE 5/8" WIDE", USED ON SIGN FACE ONLY.

5. SIGN INSTALLATIONS SHALL BE PLACED SO THAT SUPPORTS ARE NOT PLACED IN DRAINAGE DITCHES.

6. HORIZONTAL CLEARANCES SHOWN PERTAIN TO NON-CURBED SECTIONS. SECTIONS WITH UNMOUNTABLE CURB SHALL HAVE A HORIZONTAL CLEARANCE OF 2'-0" MINIMUM FROM THE CURB FACE TO THE SIGN EDGE.

7. VERTICAL AND HORIZONTAL CLEARANCE BETWEEN SIGNS ON ONE ASSEMBLY SHALL BE A MAXIMUM OF 2" AND A MINIMUM OF 1".

8. GALVANIZED STEEL BEARING PLATES SHALL BE INCLUDED BETWEEN ALL SHEET ALUMINUM SIGNS ATTACHED TO VERTICAL SUPPORTS AT EACH SIGN BOLT LOCATION.

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OHIO DEPARTMENT OF HIGHWAYS

TYPICAL PLACEMENT OF SIGNS

TPS-1

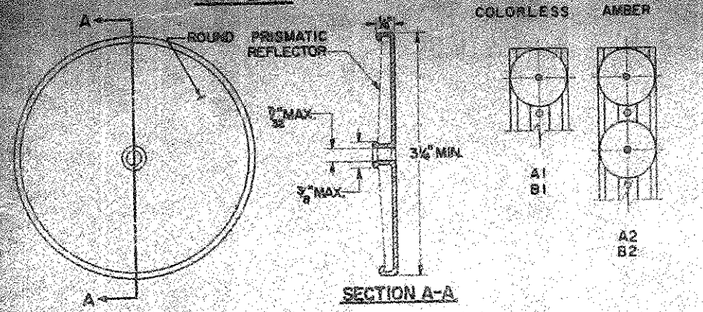
DATE
9-27-67
7-12-68
5-13-69

APPROVED _____
ENGINEER OF TRAFFIC

FED. HWY. DIVISION	STATE	PROJECT	SHEET
2	OHIO		

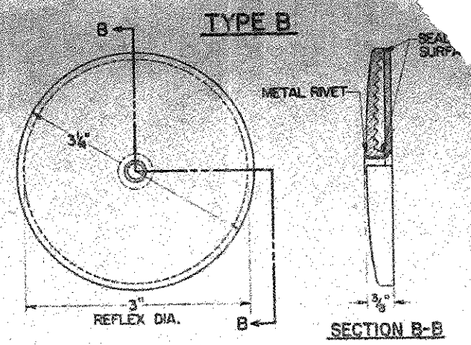
FRA-170-85.53H
FRA-42-20.43

TYPE A



SECTION A-A

TYPE B

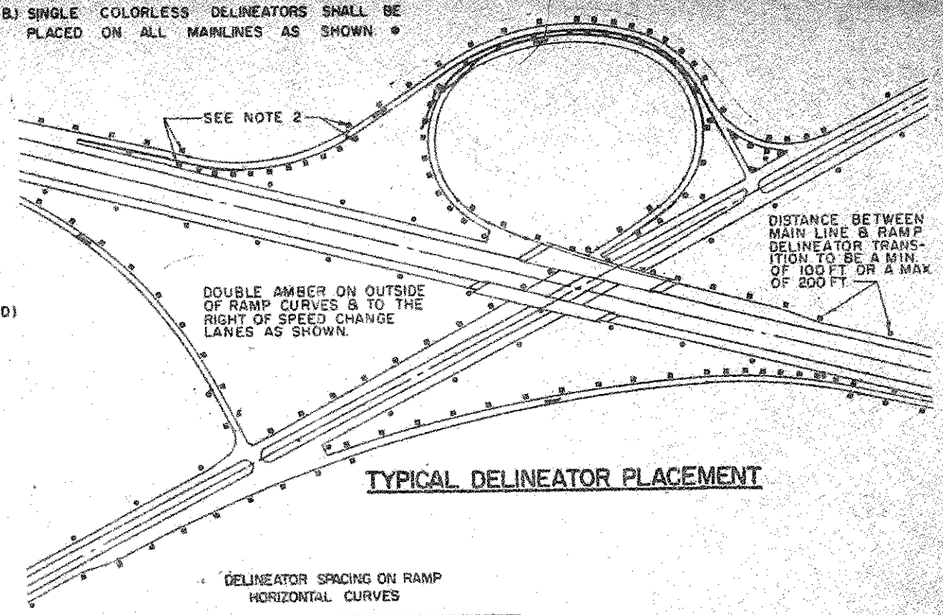


SECTION B-B

NOTE

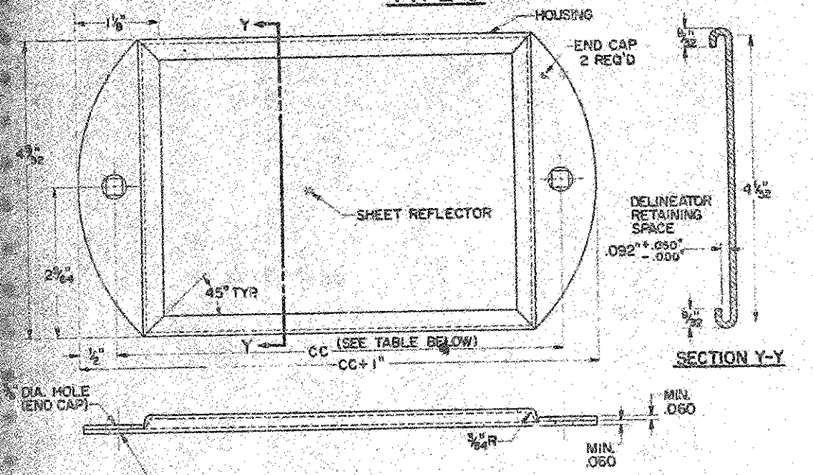
(A) DOUBLE AMBER DELINEATORS SHALL BE PLACED ON ALL RAMPS AS SHOWN. *

(B) SINGLE COLORLESS DELINEATORS SHALL BE PLACED ON ALL MAINLINES AS SHOWN. *



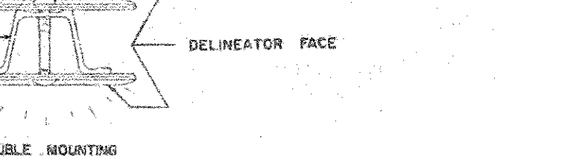
TYPICAL DELINEATOR PLACEMENT

TYPE C



SECTION Y-Y

TYPE	DIM. CC
C1 - SINGLE COLORLESS	6"
C2 - DOUBLE AMBER	11"



LATERAL PLACEMENT OF DELINEATORS

* TABLE

TYPE DELINEATOR	NO GUARDRAIL	GUARDRAIL
SINGLE COLORLESS	12'-6"	6" OUTSIDE
DOUBLE AMBER RIGHT SIDE	** 8'-6"	6" OUTSIDE
DOUBLE AMBER LEFT SIDE	4'-6"	6" OUTSIDE

** THIS DIMENSION SHALL VARY ON SPEED CHANGE LANES TO MAINTAIN MINIMUM DISTANCE OF 2'-6" FROM EDGE OF PAVED SHOULDER.

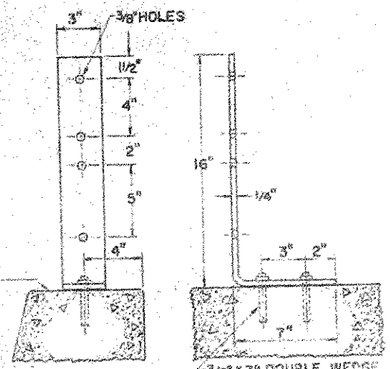
DELINEATOR SPACING ON RAMP HORIZONTAL CURVES

RADII, FT. FROM	RADII, FT. TO	SPACING ON CURVE	* TRANSITION SPACING	
TANGENT	1,801	100'	100'	100'
1,800	1,401	80'	100'	100'
1,400	1,001	70'	100'	100'
1,000	751	60'	100'	100'
750	551	50'	80'	100'
550	326	40'	70'	100'
325	———	30'	60'	100'

* SUCH AS 40' TO 70' TO 100' OR 100' TO 80' TO 50' OR ANY OTHER COMBINATION SHOWN ABOVE.

NOTES

1. TYPE A1 OR B1 DELINEATORS ON THE RIGHT OF THE THROUGH ROADWAY ARE TO BE SPACED AT 200 FT. INTERVALS THROUGHOUT, REGARDLESS OF CURVES.
2. WHEN CROSSING FROM LEFT TO RIGHT OR FROM RIGHT TO LEFT ON THE RAMPS THE DELINEATORS AT THE POINT OF CROSSOVER ARE TO BE AT THE SAME STATION ON EACH SIDE.
3. NO DELINEATORS ARE TO BE PLACED IN PAVED BERM.
4. WHEN RADII OF CURVE ON RAMPS REQUIRE 100' SPACING THE DELINEATORS SHALL BE PLACED ON THE RIGHT IN RELATION TO THE FLOW OF TRAFFIC.



NOTE:
ANCHOR BOLTS SHALL BE SELFDRILLING FFS-325 GROUP IX, TYPE I OR STUD FFS-325 GROUP VIII TYPE 2 AS MANUFACTURED BY HILTI HEAD OR WEDGE-IT

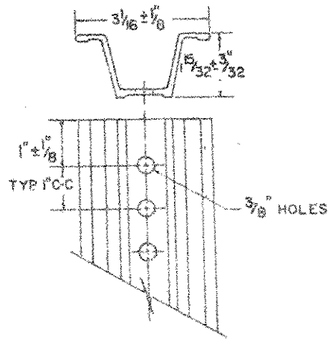
DELINEATOR BRIDGE PARAPET BRACKET

DELINEATOR MOUNTING



TAMPER RESISTANT FASTENERS SHALL BE USED TO FASTEN DELINEATORS TO POST AS/OR SIMILAR TO ONE SHOWN ABOVE.

TAMPER RESISTANT FASTENERS

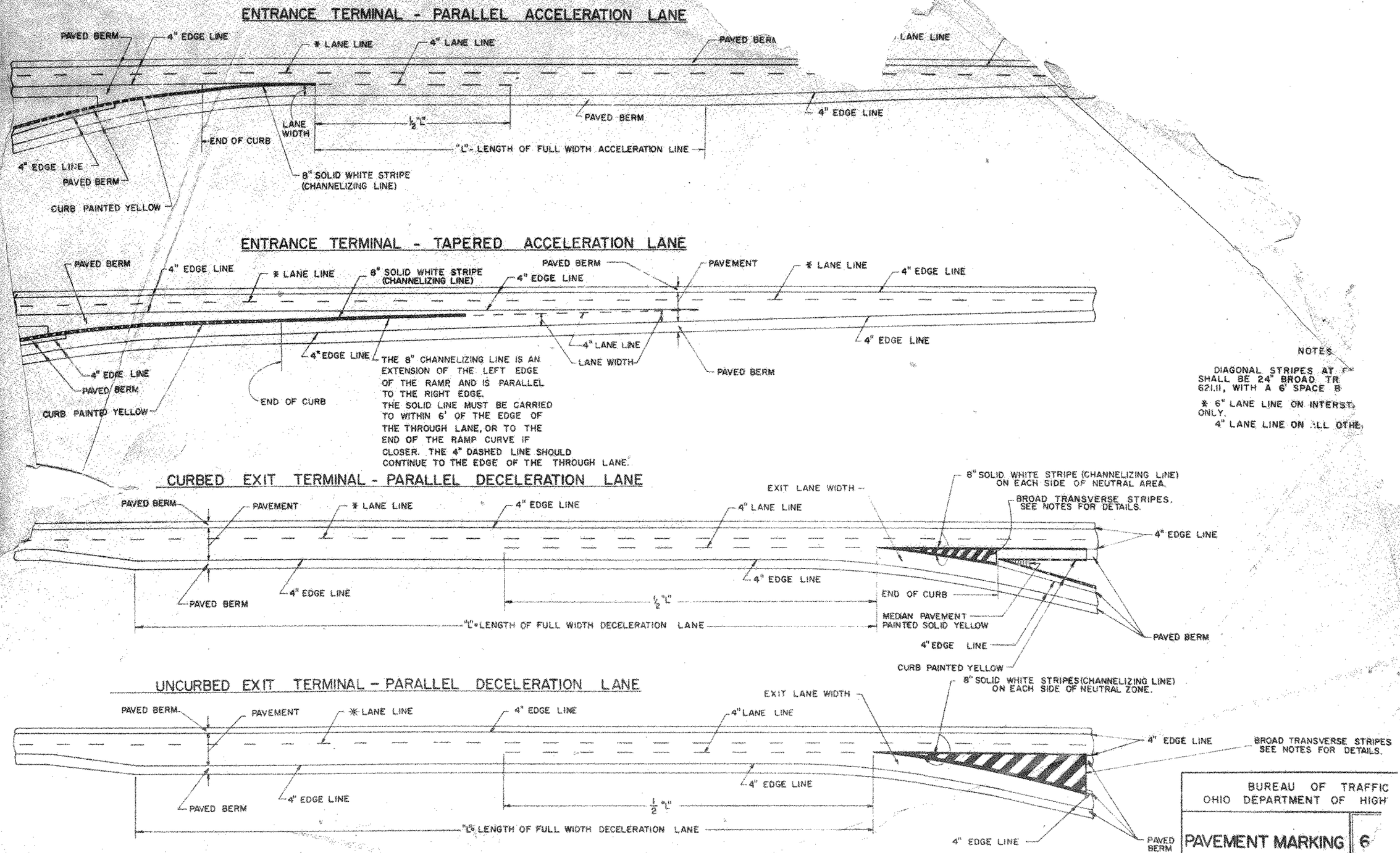


2 LB./FT. DELINEATOR DRIVE POST

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

DELINEATOR DETAILS	620	DATE 9-25-67 5-24-67 9-19-67

APPROVED Robert P. Lamm
ENGINEER OF TRAFFIC


ENTRANCE TERMINAL - PARALLEL ACCELERATION LANE
PAVED BERM
4" EDGE LINE
* LANE LINE
4" LANE LINE
PAVED BERM
LANE LINE
LANE WIDTH
½ "L"
PAVED BERM
4" EDGE LINE
END OF CURB
"L" - LENGTH OF FULL WIDTH ACCELERATION LINE
4" EDGE LINE
PAVED BERM
8" SOLID WHITE STRIPE (CHANNELIZING LINE)
CURB PAINTED YELLOW
ENTRANCE TERMINAL - TAPERED ACCELERATION LANE
PAVED BERM
4" EDGE LINE
* LANE LINE
8" SOLID WHITE STRIPE (CHANNELIZING LINE)
4" EDGE LINE
PAVED BERM
PAVEMENT
* LANE LINE
4" EDGE LINE
4" EDGE LINE
4" LANE LINE
LANE WIDTH
PAVED BERM
4" EDGE LINE
4" EDGE LINE
PAVED BERM
CURB PAINTED YELLOW
END OF CURB
THE 8" CHANNELIZING LINE IS AN EXTENSION OF THE LEFT EDGE OF THE RAMP AND IS PARALLEL TO THE RIGHT EDGE. THE SOLID LINE MUST BE CARRIED TO WITHIN 6' OF THE EDGE OF THE THROUGH LANE, OR TO THE END OF THE RAMP CURVE IF CLOSER. THE 4" DASHED LINE SHOULD CONTINUE TO THE EDGE OF THE THROUGH LANE.
NOTES
DIAGONAL STRIPES AT
SHALL BE 24" BROAD TR
621.11, WITH A 6' SPACE B
* 6" LANE LINE ON INTERST.
ONLY.
4" LANE LINE ON ALL OTHE
CURBED EXIT TERMINAL - PARALLEL DECELERATION LANE
PAVED BERM
PAVEMENT
* LANE LINE
4" EDGE LINE
4" LANE LINE
EXIT LANE WIDTH
8" SOLID WHITE STRIPE (CHANNELIZING LINE) ON EACH SIDE OF NEUTRAL AREA.
BROAD TRANSVERSE STRIPES. SEE NOTES FOR DETAILS.
4" EDGE LINE
4" EDGE LINE
PAVED BERM
4" EDGE LINE
½ "L"
END OF CURB
MEDIAN PAVEMENT PAINTED SOLID YELLOW
"L" = LENGTH OF FULL WIDTH DECELERATION LANE
4" EDGE LINE
PAVED BERM
CURB PAINTED YELLOW
UNCURBED EXIT TERMINAL - PARALLEL DECELERATION LANE
PAVED BERM
PAVEMENT
* LANE LINE
4" EDGE LINE
4" LANE LINE
EXIT LANE WIDTH
8" SOLID WHITE STRIPES (CHANNELIZING LINE) ON EACH SIDE OF NEUTRAL ZONE.
4" EDGE LINE
BROAD TRANSVERSE STRIPES SEE NOTES FOR DETAILS.
4" EDGE LINE
PAVED BERM
4" EDGE LINE
½ "L"
"L" = LENGTH OF FULL WIDTH DECELERATION LANE
4" EDGE LINE
PAVED BERM
BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGH
PAVEMENT MARKING
6

FED. HWY. DIVISION	STATE	PROJECT		
2	OHIO			

FRA-270-25.39N,
FRA-62-20.83

GENERAL NOTES

Proj 1632(10)

SPECIFICATIONS

These notes are supplemental to Items 625 and 713 of the State of Ohio Department of Highways Construction and Material Specifications dated January 1, 1969.

Reference shall be made to Standard Construction Drawings HL-1, HL-2, HL-3 and HL-4.

In lieu of pertinent details shown on the standard construction drawings, the tops of light pole foundations and of pull boxes shall not exceed 1 inch above the surrounding ground elevation at the high point of the surrounding ground.

625.03 GENERAL

The power supplying agency for this project is:

Columbus and Southern Ohio Electric Company
215 North Front Street
Columbus, Ohio 43216

625.07 - 713.11 LUMINAIRES

Luminaires predominately illuminating a main line roadway shall be positioned perpendicularly thereto.

400 Watt luminaires shall have dual rated 240/480 volt integral regulator ballasts and shall be General Electric M400, Westinghouse OV-25, McGraw-Edison "Unistyle", or equal approved by the Engineer.

700 Watt luminaires shall have single rated 480 volt 700 watt integral regulator ballasts and shall be General Electric M-1000, Westinghouse OV-50, McGraw-Edison "Unistyle, or equal approved by the Engineer.

625.08 - 713.14 LAMPS

Mercury lamps shall be General Electric "Bonus Line", Westinghouse "Lifeguard", Sylvania "Rough Service", or equal approved by the Engineer.

625.11 - PULL BOXES

Anchoring of air bells specified for this item may be accomplished by the use of 4 polypropylene ropes. The ropes, if used, shall be knotted at one end. The other ends shall enter the box through each of 4 equally-spaced holes around the upper circumference of the box. The entering ends of each two opposing ropes shall be pulled tight and tied together over the air bell to hold it securely in place.

In addition to the requirements of this item, a treated (713.06) 1" x 2" wood stake or 3/8" diameter aluminum or steel pin at least 30 inches long shall be driven into the center of the pull box. The connector kits in the box shall be securely taped to the top of the stake or pin in such a manner that all parts of the kits are suspended within the air bell above the elevation of the uppermost opening or notch cut into the lower circumference of the air bell.

Openings or notches may be field cut in the bell to match the lower openings in the pull box if necessary to secure a firm seating for the bell. This operation, however, must not reduce the size of the air chamber below that required for suspension of the connector kits above the upper elevation of the lower edge of the bell in place.

Payment for the above work shall be included in the unit price bid for each pull box.

625.12 - TRENCH

Excavation for trenches shall not exceed twelve (12) inches in width without prior approval of the Engineer.

625.14 - 625.15 CABLE AND DUCT-CABLE IDENTIFICATION

All cables, except structure gounding system cable, entering an accessible enclosure such as a pull box, junction box, handhole, transformer base, or device housing, etc., for the purpose of being terminated or connected to another cable shall be identified in such enclosure with tags or bands as described in 713.18.

No cable splices will be permitted betwsen terminations. Exothermically welded joints in structure grounding systems are not considered as splices.

Payment for the above shall be included in the unit prices bid for the respective cable items.

PROTECTION OF COMPLETED WORK

Conduit and/or duct cable terminals shall be sealed, as required by 625.13, immediately upon completion of installation.

Empty conduits shall be capped or otherwise closed immediately upon installation until pull wire or cable is installed and final sealing completed.

Light pole hand holes and openings of transformer base poles shall have covers installed immediately upon erection of pole.

All cable connector kits and exposed cable ends shall be adequately protected by enclosing in plastic bags, taping, or other approved means, until cable connections have been completed.

Payment for this work shall be included in the unit prices bid for each of the respective items.

LIGHT POLE ANCHOR BOLTS FOR BRIDGES AND RETAINING WALLS

Anchor bolts for mounting light poles on bridges and retaining walls shall conform to the requirements of 713.01 and details shown on the plans and standard drawings for the respective poles to be placed thereon. Payment shall be made at the unit price bid for each U or L bolt of the size specified and this payment shall constitute full compensation for furnishing and placing the bolts.

CONDUIT ON STRUCTURES

Expansion fittings for conduit on structures shall be OZ Type AX, Spring City Type AF, Appleton Type XJ-4, or equal approved by the Engineer.

713.17 - STRUCTURE GROUND CABLE

In lieu of the provisions of paragraph two of this section, structure ground cable shall be size 1/0 AWG, 7 strand, soft or annealed bare copper cable conforming to ASTM-B8, Class A.

625.11 PULL BOXES

Where extended duct-cable runs exist, pullboxes shall be installed over duct-cable every 450 to 500 feet.

ELECTRICAL SERVICE FOR ILLUMINATED SIGNS

The pay items in the Lighting General Summary include the pull box or junction box adjacent to each lighted sign and the electrical service connections leading into the box, including connector kits in the pull box or junction box. Quantities for electrical service from the connector kits in the pull box or junction box to the sign are included in the Traffic Control General Summary.

ITEM 625 - CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN

This item shall consist of installing conduit of the size or sizes indicated under existing pavement and contiguous shoulders by an approved method such as "drilling" or "jacking".

The Contractor shall place the conduit with the least amount of disturbance to the existing pavement, subbase, berm pavement, or shoulders of the roadway. All push pits or any necessary excavations shall be backfilled and restored in accordance with 625.01.

Measurement of the conduit shall be the actual amount of lineal feet installed under pavement and shoulders, measured in place, as accepted by the Engineer. The unit price bid for Item 625, "Conduit Jacked Under Pavement, As Per Plan" shall be full compensation for excavation, drilling or jacking, backfilling, compaction, restoration, and all labor, material, equipment, and incidentals necessary to complete the work as specified.

REVISION OF LIGHT POLE OFFSETS

In lieu of the respective details shown on Standard Construction Drawings HL-1 and HL-3 and elsewhere on this plan, the normal trench alignment on this project shall be parallel to the controlling pavement edge or baseline and direct from pole to pole, the special conduit elbows in the pole foundations shall be in a vertical plane along the pole alignment, and the normal offset distance of the poles from face to guard rail, or where guard rail normally would be located, shall be 36 inches.

ITEM 625 - SERVICE TO UNDERDECK LIGHTING, AS PER PLAN

This item shall consist of providing complete electrical service, except for luminaires, lamps, and grounding systems, for an underdeck lighting system on Bridge No. FRA-270-2645N under S.B. U.S.R. 62. The installation work shall include conduits, mountings, fittings, junction boxes, cables, and all incidentals necessary to complete, ready for use, the service as detailed on Sheet 9.

The lump sum price bid for "Item 625 - Service to Underdeck Lighting, As Per Plan" shall include payment for all equipment, labor, and materials necessary to complete the work as specified. Component parts not specifically mentioned but required for satisfactory operation of this item shall be furnished and considered paid for as part of the item.

625.07 - 713.13 UNDERPASS LUMINAIRES

250 Watt underpass luminaires shall be Holophane "Underpass Wallpack", or equal Westinghouse, McGraw-Edison, or General Electric underpass unit approved by the Engineer, and shall be furnished with an integral fuse holder and fuse. The integral ballast shall be of a regulator type rated for 480 volts.

GENERAL SUMMARY - LIGHTING

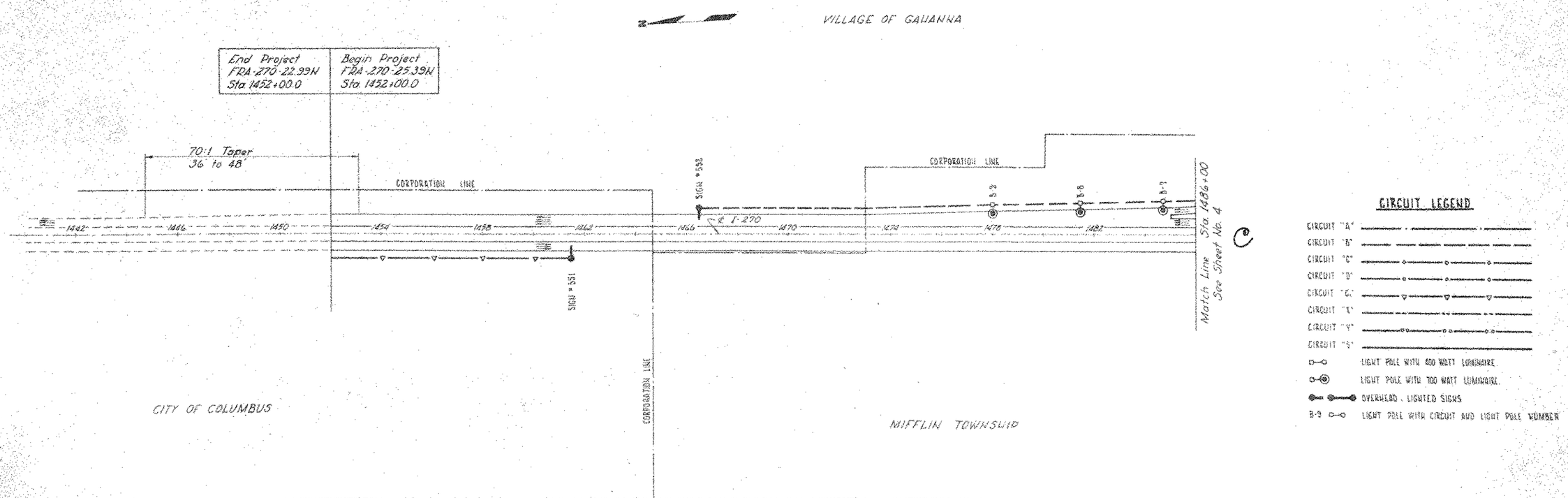
	I-270-5(18)117 Code 7223													F-202(5) Code 6203																
	NORMAL PARTICIPATION													NORMAL PARTICIPATION																
	RURAL									COLUMBUS				RURAL																
	STRUCTURES						ROADWAY		TOTAL RURAL	ROADWAY		TOTAL COLUMBUS	TOTALS NORMAL PARTICIPATION	STRUCTURES				ROADWAY		TOTALS NORMAL PARTICIPATION	GRAND TOTALS	ITEM	UNIT	DESCRIPTION	REFERENCE LINE
STRUCTURE No.	2a45N	2a45N	2181	2a44N	2a47N	2a45N								2035																
SHEET No.	12	15	13	14	14	18	30			30				16				30												
		1							1				1								1	625	EA	LIGHT POLE, DESIGN TD10B32.6	1
																													2
																													3
							10		10				10					6		6	16	625	EA	LIGHT POLE, DESIGN HAT12B34.2	4
							8		8				8					7		7	15	625	EA	LIGHT POLE, DESIGN HAT15B34.1	5
							18		18				18					5		5	23	625	EA	LIGHT POLE, DESIGN HAT12B41.1	6
							11		11				11					1		1	12	625	EA	LIGHT POLE, DESIGN HAT15B41.1	7
																													8
																													9
							34		34				34					14		14	48	625	EA	LIGHT POLE FOUNDATION, 24" x 6'-0" DEEP	10
							29		29				29					6		6	35	625	EA	LIGHT POLE FOUNDATION, 24" x 8'-0" DEEP	11
																													12
							22		22				22					8		8	24	625	EA	LUMINAIRE, TYPE II, 400 WATT, 715.11 (medium cutoff)	13
		1					12		13				13					12		12	25	625	EA	LUMINAIRE, TYPE III, 400 WATT, 715.11 (medium cutoff)	14
							29		29				29					6		6	35	625	EA	LUMINAIRE, TYPE III, 700 WATT, 715.11 (medium cutoff)	15
							2		2				2								2	625	EA	GLARE SHIELD	16
		1					34		35				35					14		14	49	625	EA	LAMP, 400 WATT, 715.14 MERCURY	17
							29		29				29					6		6	35	625	EA	LAMP, 700 WATT, 715.14 MERCURY	18
																													19
							43		43				43					20		20	85	625	EA	GROUND ROD	20
							44		44	2		2	46					23		23	75	625	EA	PULL BOX, 18" CIRCULAR, 715.09	21
																													22
							18680		18680	360		360	19040					6931		6931	2681	625	LF	TRENCH, 24" DEEP	23
																													24
	431	773	173	341	532	10	113		2430				2430	342				40		382	2912	625	LF	CONDUIT, 2", 715.04, TYPE II OR III	25
							352		352				352					500		500	1492	625	LF	CONDUIT, 3", 715.04, TYPE II OR III	26
																		333		333	333	625	LF	CONDUIT, 3", 715.04, TYPE II OR III, JACKED UNDER PAVEMENT, AS PER PLAN	27
																													28
		784					1058		1842				1842					446		446	2288	625	LF	No. 2 AWG, 600 VOLT DISTRIBUTION CIRCUIT CABLE	29
				722			1444		2166				2166					1460		1460	3626	625	LF	No. 4 AWG, 600 VOLT DISTRIBUTION CIRCUIT CABLE	30
																													31
							4092		4092				4092					650		650	4742	625	LF	1¼" DUCT-CABLE WITH TWO No. 2 AWG 600 VOLT CABLES	32
							15203		15203	380		380	15583					6170		6170	22353	625	LF	1¼" DUCT-CABLE WITH TWO No. 4 AWG 600 VOLT CABLES	33
																													34
		88					6316		6404				6404					1986		1986	8390	625	LF	No. 10 AWG, POLE AND BRACKET CABLE, 19 STRAND	35
																													36
							46		46	2		2	48					30		30	78	625	EA	CONNECTOR KIT, TYPE I	37
		1					63		64				64					20		20	84	625	EA	CONNECTOR KIT, TYPE II	38
		1					43		44				44					20		20	84	625	EA	CONNECTOR KIT, TYPE III	39
							30		30				30					18		18	48	625	EA	CONNECTOR KIT, TYPE IIIA or C	40
																													41
							LUMP		LUMP				LUMP								LUMP	625	LUMP	CONTROL CENTER "I"	42
																		LUMP		LUMP	LUMP	625	LUMP	CONTROL CENTER "II"	43
																													44
																													45
	2	4		2	2				10				10	2						2	12	625	EA	STRUCTURE JUNCTION BOX, 16" x 12" x 6"	46
	4	8							12				12								12	625	EA	LIGHT POLE ANCHOR "U" BOLT FOR STRUCTURE, 715.01 (1¼" x 85½")	47
				4	4				8				8	4						4	12	625	EA	LIGHT POLE ANCHOR "U" BOLT FOR STRUCTURE, 715.01 (1½" x 85")	48
																													49
							4		4				4								4	625	EA	LUMINAIRE, UNDERPASS, 250 WATT MERCURY 715.13	50
							4		4				4								4	625	EA	LAMP, 250 WATT, 715.14 MERCURY	51
							LUMP		LUMP				LUMP								LUMP	625	LUMP	SERVICE TO UNDERDECK LIGHTING AS PER PLAN	52
																													53
	1								1				1								1	626	EA	STRUCTURE GROUNDING SYSTEM, FRA-270-2676.N	54
		1							1				1								1	626	EA	STRUCTURE GROUNDING SYSTEM, FRA-270-2645.N	55
				1					1				1								1	626	EA	STRUCTURE GROUNDING SYSTEM, FRA-270-2646.N	56
					1				1				1								1	626	EA	STRUCTURE GROUNDING SYSTEM, FRA-270-2647.N	57
														1						1	1	626	EA	STRUCTURE GROUNDING SYSTEM, FRA-62-2095	58
			1						1				1								1	626	EA	STRUCTURE GROUNDING SYSTEM, FRA-62-2181	59
																													60
																													61
																													62
																													63
																													64

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

303
435

FRA-270-25.39N
FRA-62-20.83

3
30



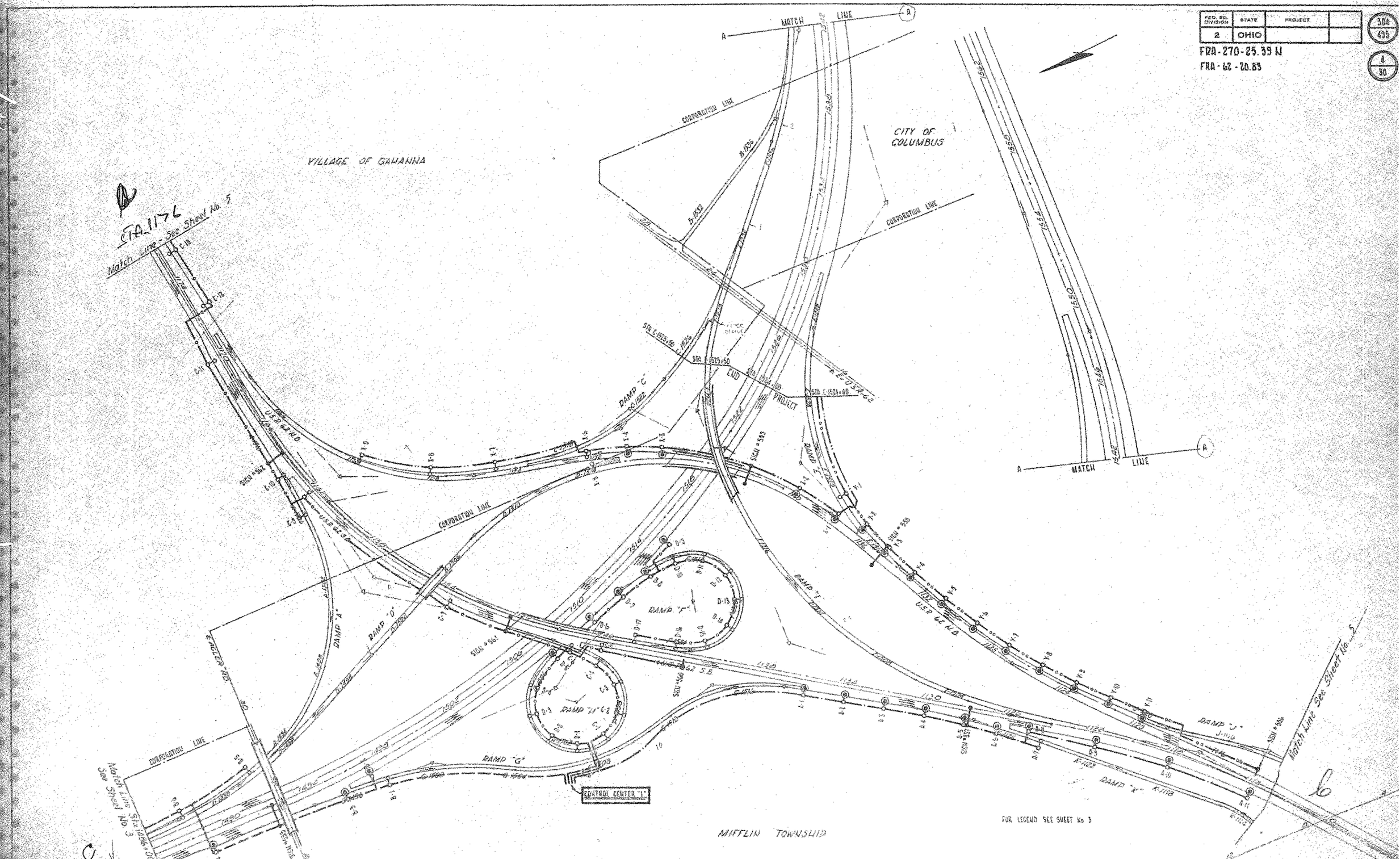
SCHEMATIC WIRING DIAGRAM

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-62-20.83

304/495

4/30



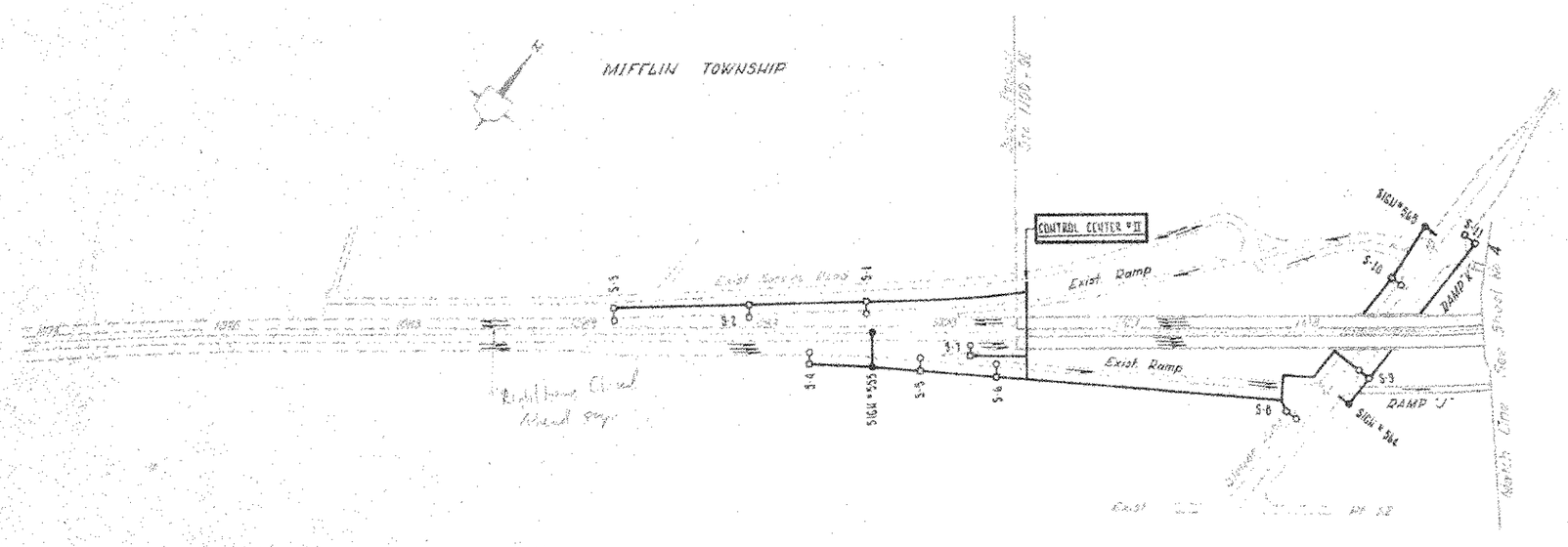
SCHEMATIC WIRING DIAGRAM

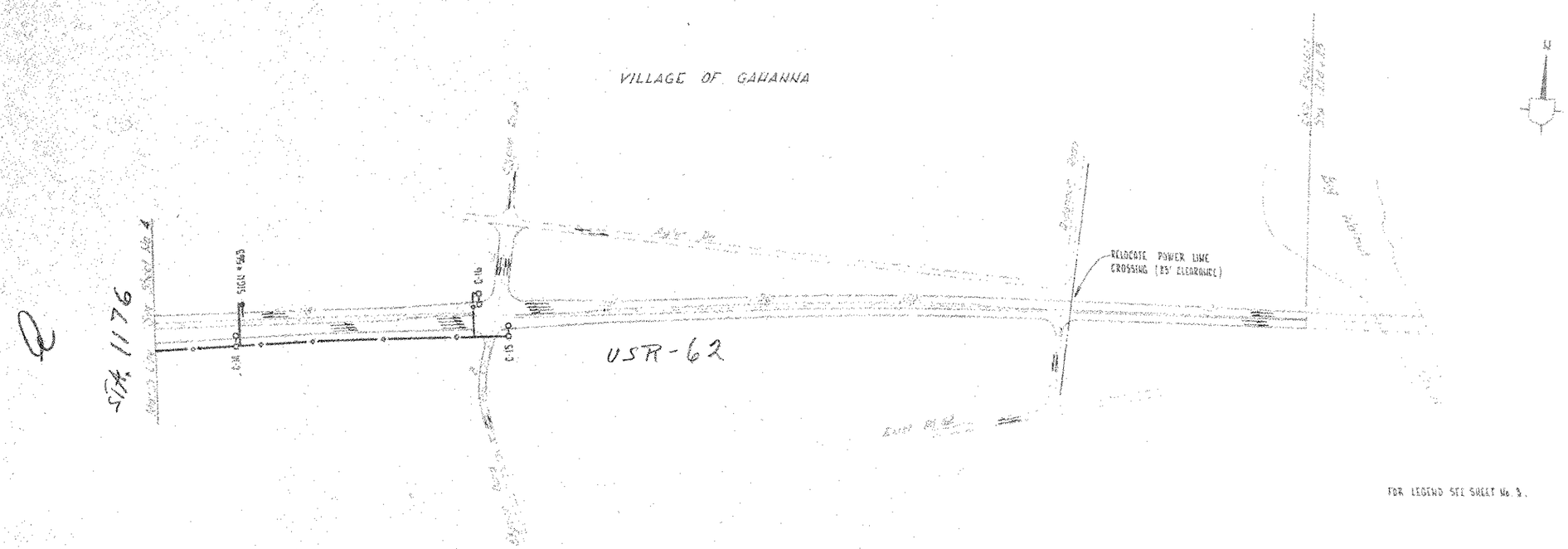
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

305
455

FRA-270-25 33N
FRA-62-20 83

5
30





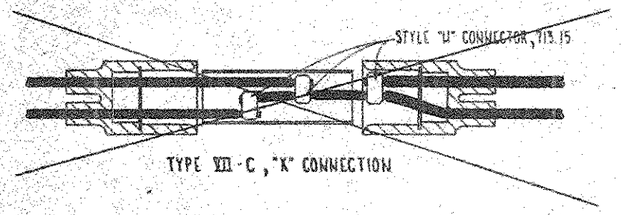
FOR LEGEND SEE SHEET No. 3.

SCHEMATIC WIRING DIAGRAM

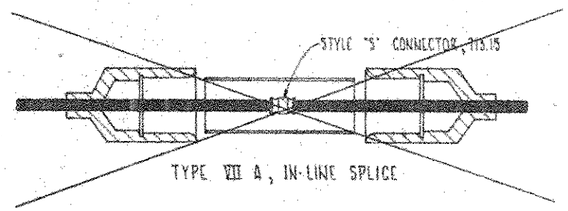
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39M
FRA-69-20.83

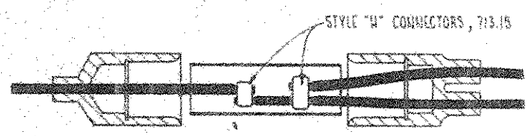
306
496
b
30



TYPE XII-C, "K" CONNECTION



TYPE VII A, IN-LINE SPLICE



TYPE VII B, "Y" CONNECTION

LEGEND

FOR DETAIL LIGHTING PLANS, SHEETS 11 THRU 21

400 W.
700 W.
250 W.
FUTURE

LIGHT POLE & LUMINAIRE

STATION LOCATION (POLE TYPE) CIRCUIT & POLE NUMBER
LAMP WATTAGE - I.E.S. DIST. (ARM LENGTH) MTG. HEIGHT

CONTROL CENTER

PULL BOX - 18" I.D. CORRUGATED METAL
STATION LOCATION
NUMBER & TYPE OF CONNECTOR KIT

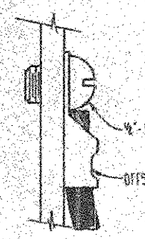
CONDUIT

CONDUIT (FOR FUTURE CABLE)

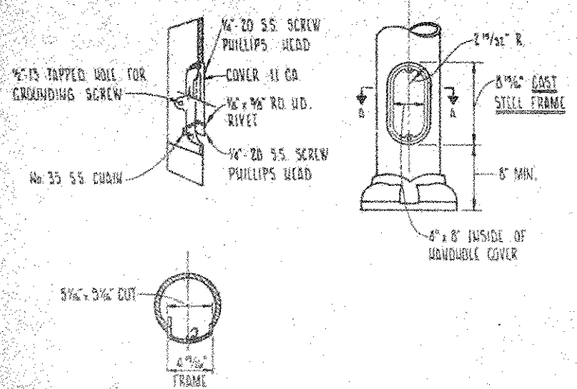
1½" DUCT-CABLE (2-#4 AWG, 600 VOLT, CABLES, EXCEPT WHERE NOTED)

NORMAL TRENCH ALIGNMENT - 2'-0" DEEP

ILLUMINATED OVERHEAD SIGNS

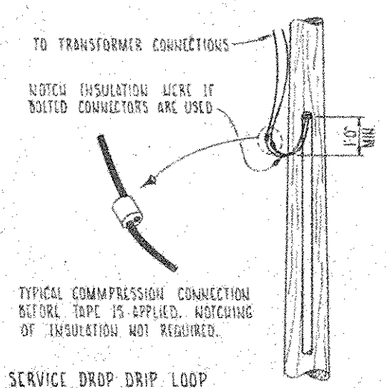


DETAIL OF TERMINATION FOR GROUND CABLE



SECTION A-A

4" x 8" CURVED HANDHOLE, FRAME & COVER



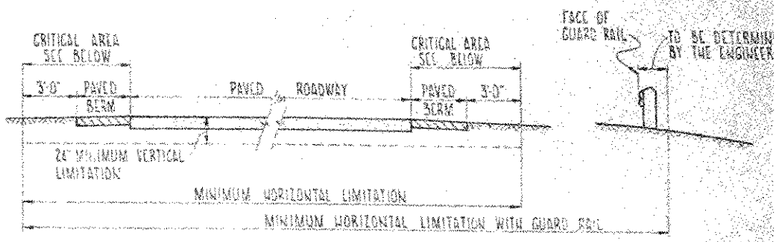
SERVICE DROP DRIP LOOP

713.15 - CABLE CONNECTORS AND CONNECTOR KITS

LAMP RATING	FUSE RATING
1 - 250 WATT	6 AMPERES
1 - 400 WATT	6 AMPERES
1 - 700 WATT	10 AMPERES

MECHANICAL PROPERTIES

REFERENCE LETTER	POLE DESIGN NUMBER	SHAFT SIZE	TAPER INCHES PER FT	GAUGE	FOUNDATION ANCHOR BOLTS: SIZE	BOLT CIRCLE	PROJ. ABOVE FOUNDATION	ARM LENGTH	NOMINAL MTG HEIGHT	ELASTIC DEFL. IN. PER 100 LBS	AT 80% OF YIELD STRESS: LOAD 18" DOWN FROM TOP	TOTAL DEFL. INCHES	PERM. SET INCHES	AT YIELD STRESS: LOAD 18" DOWN FROM TOP	TOTAL DEFL. INCHES	PERM. SET INCHES	TRANSFORMER BASE TYPE
S	7410B32.5	8.0"x3.69"x 29'-6"	.14	7	1"x 40"	41"	2¾"	10'	38.5'	2.24	770	11.75	0.5	1154	28.24	5.09	——
V, W	11HT15B34.2, 11HT15B34.2	9.0"x 4.07"x 29'-6"	.14	11	1"x 40"	17¼"	3½"	12' 15'	34.2'	2.46	658	14.75	0.5	987	24.00	3.84	ST-C
X, Y	11HT13B41.2, 11HT15B41.2	8.0"x 5.65"x 33'-6"	.30	11	1"x 40"	17¼"	3½"	12' 15'	41.7'	2.92	680	16.00	0.5	900	29.00	3.10	ST-C
					FOR FUTURE USE												
T					1¼"x 85"	11"	8⅝"	FOR USE ON STRUCTURES: FRA-270-26.65N, FRA-270-26.65N, FRA-270-26.67N, FRA-69-20.85									
Z					1¼"x 85"	12¼"	3"	FOR USE ON STRUCTURE: FRA-270-26.66N									



ACCESS PUSH PITS OR TRENCHES FOR SETTING UP DRILLING OR JACKING EQUIPMENT SHALL BE LOCATED OUTSIDE HORIZONTAL LIMITATION. CONDUIT, DRILLS, JACKS, ETC., SHALL BE KEPT BELOW VERTICAL LIMITATION.

CRITICAL AREA: WHEN UNDERMINING IN THIS LOCATION PROVIDE STEEL SURFACE PLATES, CORRUGATED PIPE SLEEVES, SHORING OR OTHER APPROVED MEANS TO PREVENT CAVE IN.

LIMITATIONS FOR INSTALLING CONDUIT UNDER EXISTING PAVEMENT

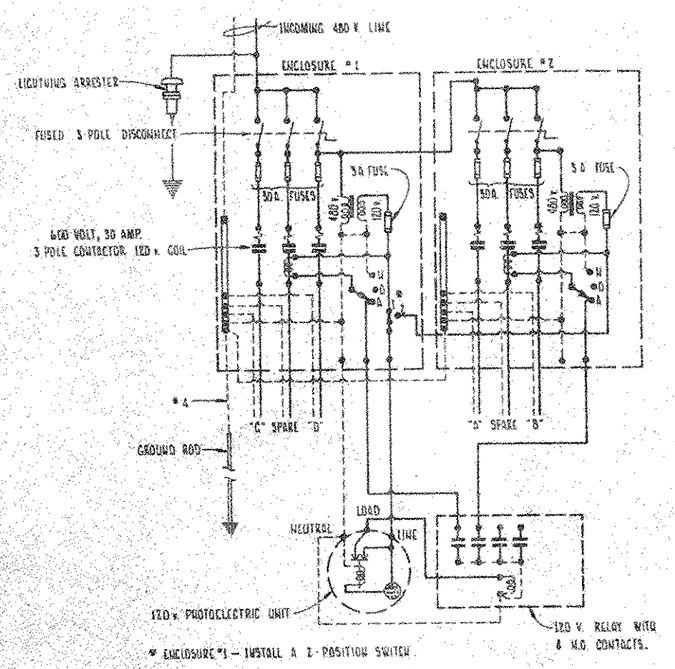
MISC. DETAILS AND MECHANICAL PROPERTIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39U
FRA-42-20.83

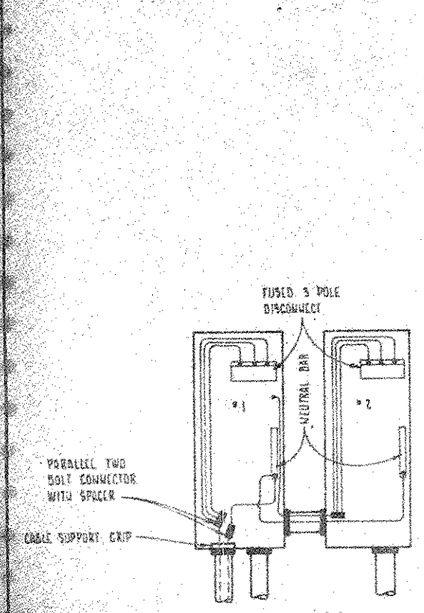
307
435

7
30

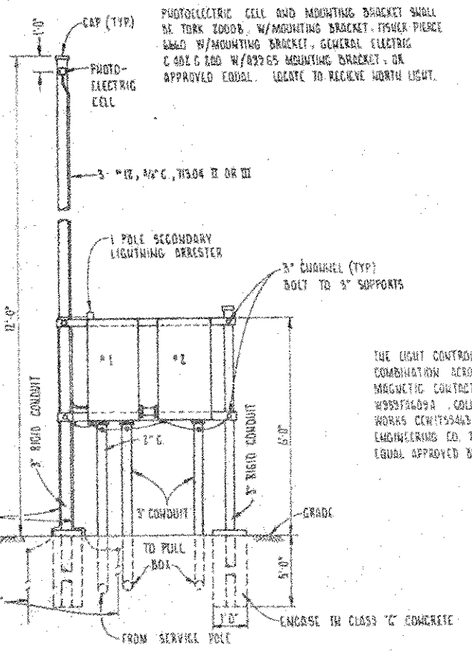


SCHEMATIC WIRING DIAGRAM

NOTE: ALL CIRCUITRY TO BE #4 AWG EXCEPT FOR CIRCUIT "C" WHICH SHALL BE #2 AWG



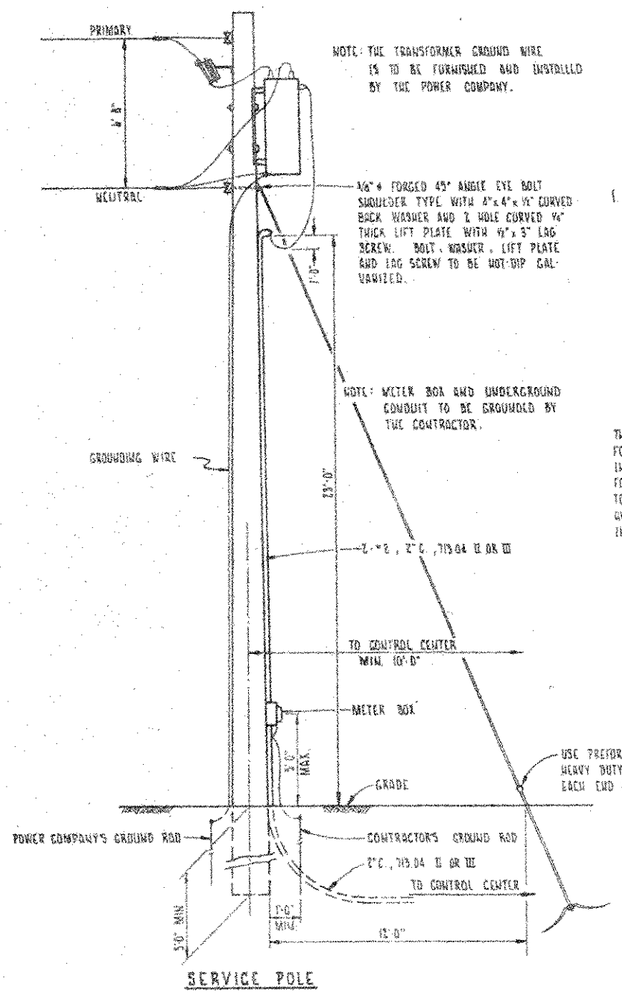
DETAIL OF FEED LINE CONNECTION



PHOTOELECTRIC CELL AND MOUNTING BRACKET SHALL BE TORK 2000B, W/MOUNTING BRACKET, FISHER PIERCE 8860 W/MOUNTING BRACKET, GENERAL ELECTRIC C 402 C 200 W/833 G5 MOUNTING BRACKET, OR APPROVED EQUAL. LOCATE TO RECEIVE NORTH LIGHT.

THE LIGHT CONTROLLER IS TO BE A COMBINATION ACROSS THE LINE MAGNETIC CONTACTOR, SQUARE "D" W9593A6094, COLUMBUS ELECTRIC WORKS CCW1553A130, TYMCO ENGINEERING CO. 7300305S, OR EQUAL APPROVED BY THE ENGINEER.

CONTROL CENTER I



SERVICE POLE

1 SERVICE POLE

THE POWER SUPPLIER WILL FURNISH AND INSTALL THE TRANSFORMER POLE, INCLUDING THE TRANSFORMER, AND PROVIDE THE METER BOX FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR WILL FURNISH AND INSTALL THE 2" CONDUIT, INCLUDING THE WEATHERHEAD SHOWN ON THE TRANSFORMER POLE, AND THE 2" CONDUIT LEADING FROM THE METER BOX TO THE CONTROL STRUCTURE AND FURNISH AND INSTALL THE TWO #2 AWG WIRES LEADING FROM THE CONTROL STRUCTURE TO THE WEATHERHEAD LEAVING 5'-0" OF FREE CABLE ABOVE THE WEATHERHEAD FOR CONNECTION TO THE TRANSFORMER BY THE POWER SUPPLIER. THE CONTRACTOR SHALL CUT OR NOTCH THE CABLE INSULATION AT THE BOTTOM OF THE DRIP LOOP IN ORDER TO PREVENT SYPHONING OF WATER INTO THE CONDUIT.

THE CONTRACT LUMP SUM PRICE BID FOR ITEM 625 "CONTROL CENTER" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS AND PERFORMING ALL LABOR INDICATED FOR THE CONTRACTOR IN ITEM 1 ABOVE, FURNISHING ALL MATERIALS AND EQUIPMENT SHOWN ON THE DETAIL DRAWING FOR THE CONTROL CENTER, FOR FURNISHING AND INSTALLING ALL CONDUIT AND CABLE REQUIRED TO CONNECT THE CONTROL STRUCTURE TO THE PULL BOX SHOWN ON SHEET No. 18 AND FOR FURNISHING AND INSTALLING ALL INCIDENTALS NECESSARY TO MAKE A COMPLETE WORKABLE INSTALLATION.

NOTES

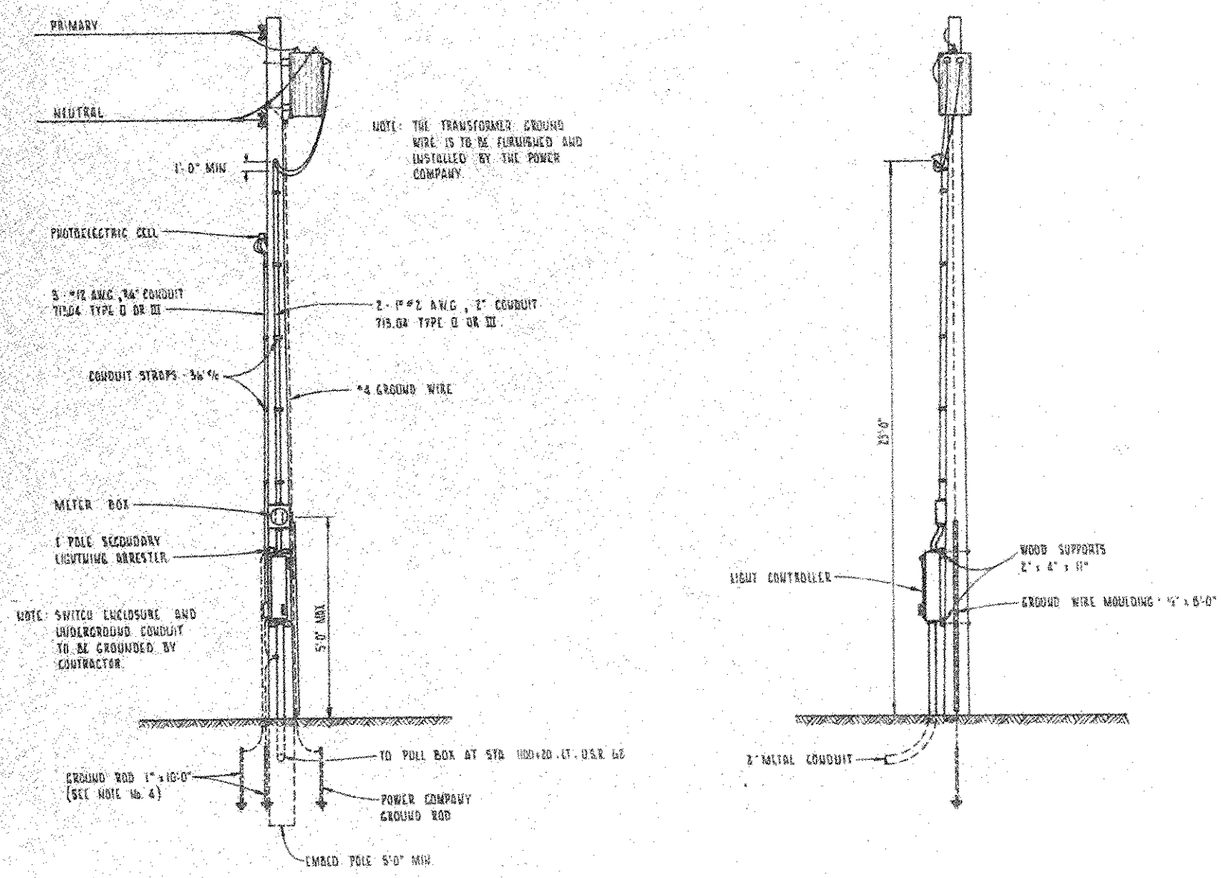
1. GROUNDING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH DETAILS CALLED FOR ON STD DWG UL-1.
2. ALL FUSES SHALL BE DELAYED ACTION.
3. ALL STRUCTURAL MEMBERS SHALL BE HOT DIPPED GALVANIZED AFTER DRILLING AND CUTTING.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

300/495

FRA-270-25.39W
FRA-62-20.83

8/30

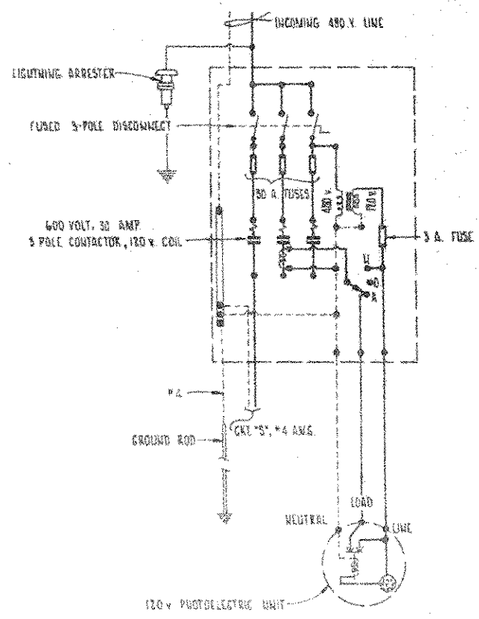


CONTROL CENTER II
NOT TO SCALE

NOTES

1. SERVICE POLE:
   THE POWER SUPPLIER WILL FURNISH AND INSTALL THE SERVICE POLE, INCLUDING THE TRANSFORMER, AND PROVIDE THE METER BOX FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR WILL FURNISH AND INSTALL THE 2" CONDUIT, INCLUDING THE WEATHERHEAD SHOWN ON THE SERVICE POLE, AND FURNISH AND INSTALL THE TWO 1/C #2 AWG WIRES LEADING FROM THE CONTROL CABINET TO THE WEATHERHEAD, LEAVING 5'-0" OF FREE CABLE ABOVE THE WEATHERHEAD FOR CONNECTION TO THE TRANSFORMER BY THE POWER SUPPLIER. THE CONTRACTOR SHALL CUT OR NOTCH THE CABLE INSULATION AT THE BOTTOM OF THE DRIP LOOP IN ORDER TO PREVENT SYPHONING OF WATER INTO THE CONDUIT.
2. LIGHT CONTROLLER:
   THE LIGHT CONTROLLER IS TO BE A COMBINATION ACROSS THE LINE MAGNETIC CONTACTOR, SQUARE "D" W935FA6050A, COLUMBUS ELECTRIC WORKS CEW17554650, TWYCO ENGINEERING CO. T3305055 OR EQUAL APPROVED BY THE ENGINEER.
3. PHOTOELECTRIC CELL:
   THE PHOTOELECTRIC CELL AND MOUNTING BRACKET SHALL BE YORK 2000B W/MOUNTING BRACKET, FISHER-PIERCE 6660 W/MOUNTING, GENERAL ELECTRIC C402 G200 W/A35G5 MOUNTING BRACKET, OR APPROVED EQUAL. LOCATE TO RECEIVE NORTH LIGHT.
4. GROUNDING:
   GROUNDING SHALL BE IN ACCORDANCE WITH DETAILS CALLED FOR ON STANDARD DRAWING HL-1.
5. FUSES:
   ALL FUSES SHALL BE DELAYED ACTION.

THE CONTRACT LUMP SUM PRICE BID FOR ITEM 625 "CONTROL CENTER" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS AND PERFORMING ALL LABOR INDICATED FOR THE CONTRACTOR IN ITEM 1 ABOVE, FOR FURNISHING AND INSTALLING ALL CONDUIT AND CABLE REQUIRED TO CONNECT THE CONTROL CENTER TO THE PULL BOX AT STA. 1100+20 LT. U.S.R. 62 AND FOR FURNISHING AND INSTALLING ALL INCIDENTALS NECESSARY TO MAKE A COMPLETE WORKABLE INSTALLATION.



SCHEMATIC WIRING DIAGRAM

8/30

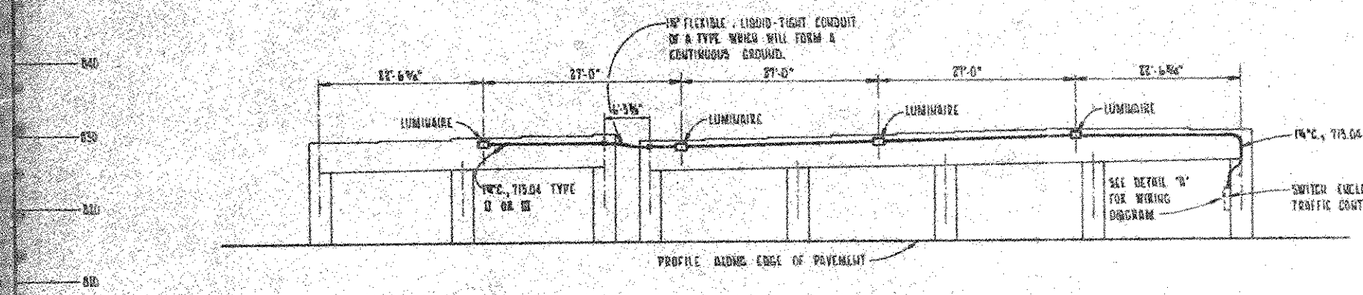
LIGHTING DETAILS - CONTROL STRUCTURE II

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

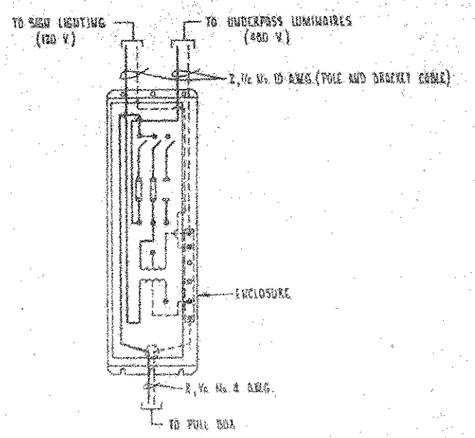
309/495

FRA-270-25.39N
FRA-62-20.83

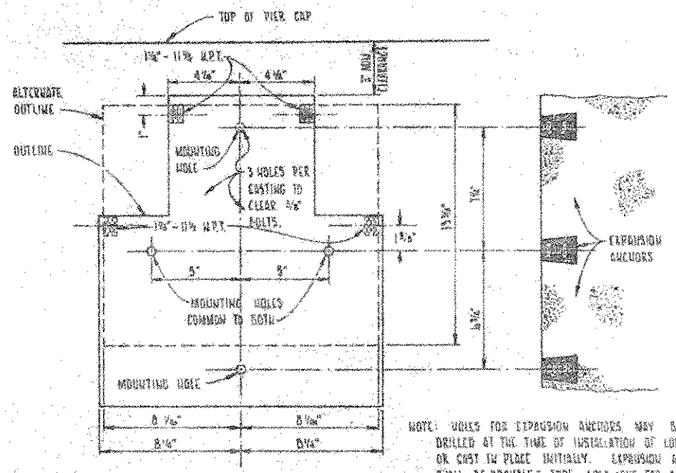
9/30



ELEVATION
FRA-270-2645N, PIER No. 1

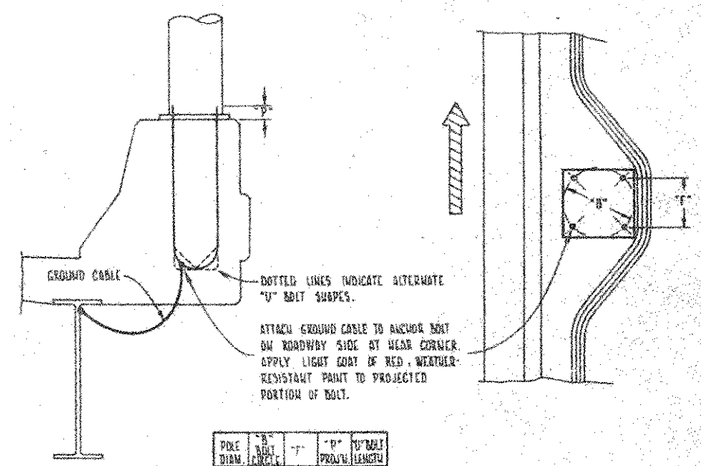


DETAIL "A"



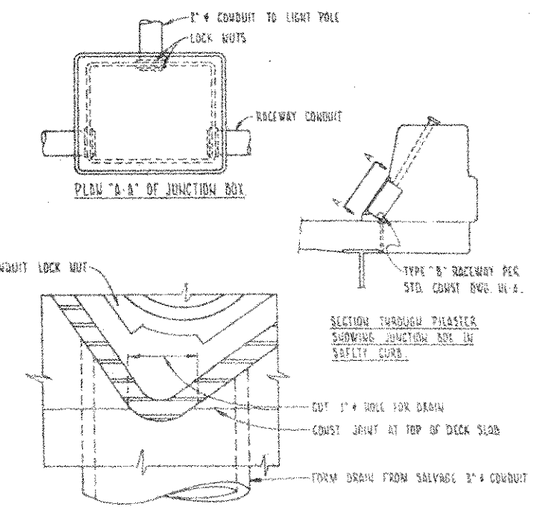
NOTE: HOLES FOR EXPANSION ANCHORS MAY BE DRILLED AT THE TIME OF INSTALLATION OF LUMINAIRE OR CAST IN PLACE INITIALLY. EXPANSION ANCHORS SHALL BE "DOUBLE" TYPE 1⅞" LONG FOR ⅝" ⌀ MACHINE BOLT. USE 11/16" ⌀ DRILL.

MOUNTING DETAILS
UNDERPASS LUMINAIRES



POLE DIAM.	"B" BOLT CIRCLE	"F"	"P" PROJ'N	"U" BOLT LENGTH
6.5"	9.5"	6¾"	2⅛"	75"
7"	10"	7 1/16"	2¼"	75"
7.5"	10.5"	7 7/16"	2⅜"	76⅛"
8"	11"	7¾"	2⅝"	76⅛"
8.5"	11.5"	8⅛"	2¾"	76⅛"
9"	12.5"	8 7/16"	3"	78"
9.5"	13"	9 3/16"	3⅛"	78"
10"	13.5"	9 7/16"	3⅜"	79⅛"
11"	15"	10 5/16"	3⅝"	79⅛"
12"	16"	11 5/16"	4"	81"

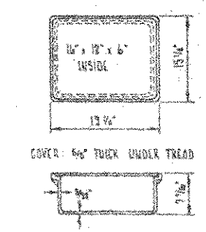
NOTE:
TABULATED "U" BOLT LENGTHS ARE DEVELOPED LENGTHS AND MAY VARY ±½". LENGTHS ARE FOR 1¼" AND/OR 1½" ⌀ BOLTS. INCREASE TOTAL LENGTH OF "U" BOLT BY "F" FOR SAFETY CURB.



PLAN "A-A" OF JUNCTION BOX

SECTION THROUGH PILASTER SHOWING JUNCTION BOX IN SAFETY CURB.

DETAIL OF JUNCTION BOX DRAIN



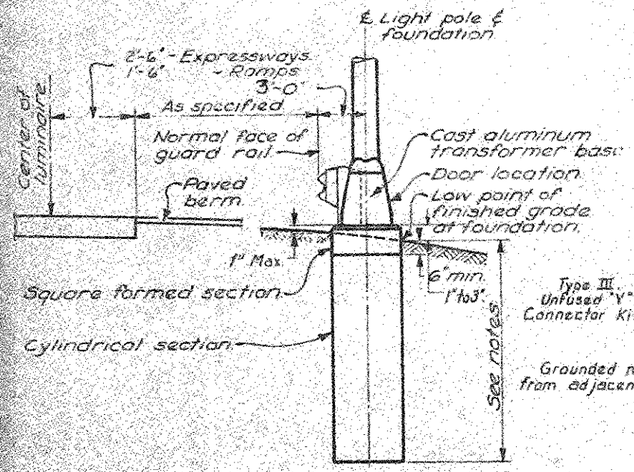
JUNCTION BOX DETAIL

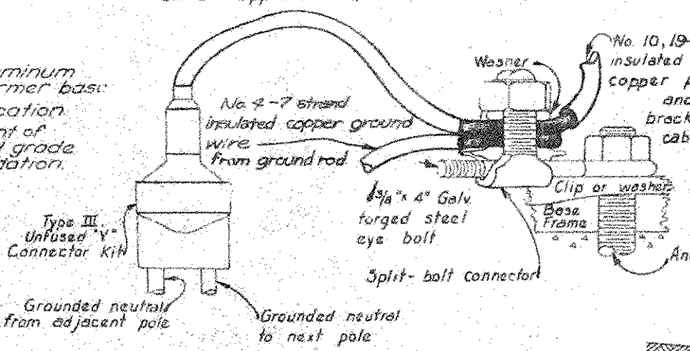
NOTE:
JUNCTION BOX TO BE OF CAT No. YR16126, THOMAS & BETTS 10938, KILLARK TYPE WBB OR EQUAL APPROVED BY THE ENGINEER.

STRUCTURE JUNCTION BOX DETAILS

3/30

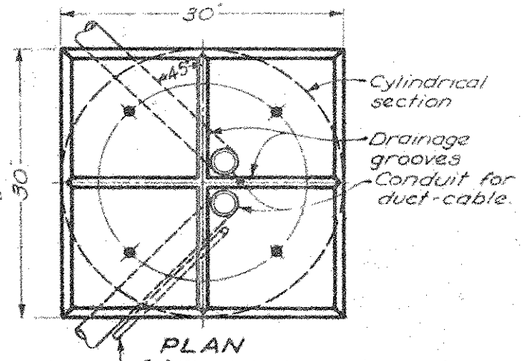
DETAILS FOR STRUCTURE MOUNTED LIGHTING ITEMS





POLE GROUNDING DETAIL

(2-Wire Grounded Neutral System Only)

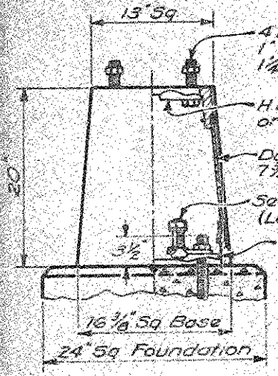


PLAN

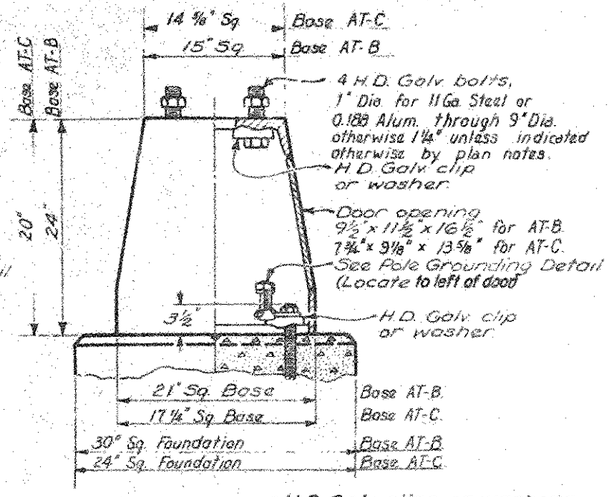
¾" Electrical metallic tubing.

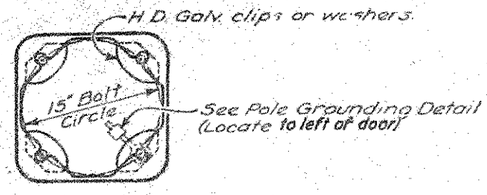
LOCATION OF POLE WITH OR WITHOUT ALUMINUM TRANSFORMER BASES

(Supersedes "Location of Light Pole Foundation" shown on Standard Drawing HL-1).



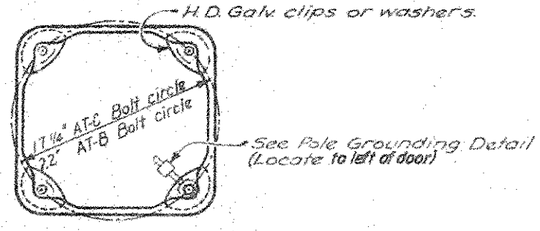
ELEVATION





BASE FRAME

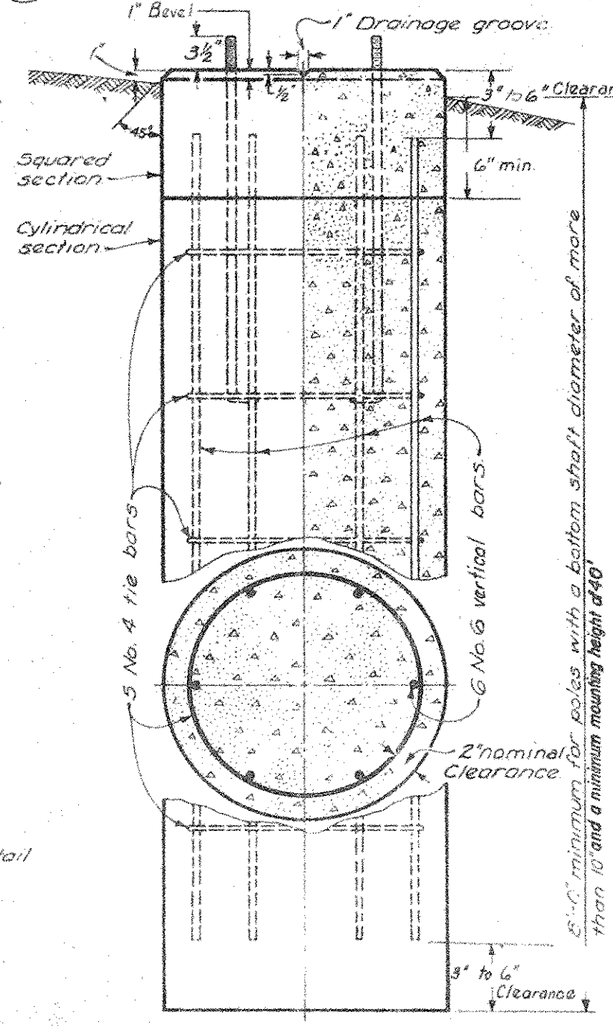
BASE AT-A



BASE FRAME

BASES AT-B AND AT-C

CAST ALUMINUM TRANSFORMER BASES



ELEVATION

30" FOUNDATION

NOTES

FOUNDATION: Foundations for light poles shall be poured-in-place concrete (vibrated and spaded 511.09). Each foundation must meet minimum depths as specified, but additional depth may be required by the Engineer because of existing soil conditions. The 30" foundation (detailed hereon) shall be used for light poles having a bottom shaft diameter of more than 10" through 12". The 24" foundation (detailed on Standard Drawing HL-1) shall be used for all light poles having a bottom shaft diameter of 6.0" through 10". See HL-1 for Foundation depth.

Rotate reinforcing bars to clear conduit. For anchor bolt sizes see drawing HL-3.

Drainage grooves on foundation top, as detailed hereon, shall be required on all foundations even though they do not appear on Standard Drawing HL-1.

ALUMINUM TRANSFORMER BASES: All bases shall be cast from ASTM B-26 or B-108 Alloy 5G 70A-T6.

Base AT-A shall be used with anchor base poles of 6" through 9.2" dia. inclusive, thru 34'-6" Mtg. Ht. Base AT-B shall be used for anchor base poles above 10" through 12" diameter. Base AT-C shall be used for anchor base poles with bottom diameter 9" through 10"*.

The transformer bases shall be capable of resisting the following moments in foot pounds with load applied at a distance of 20' feet above the top of the base without collasping or rupturing:

Style	Bolt Circle	Base Height	Moment-Foot Pounds	Arm Length
AT-A	15"	20"	37,000	15' Max.
AT-C	17¼"	20"	56,000	0' to 25'
AT-B	22"	24"	52,000	10' to 25

Both the bottom of the cast steel pole base and the top of the aluminum transformer base shall be coated or painted with a heavy film of zinc rich paint (Federal Specification TT-P-641-Type II) to reduce galvanic action between the two dissimilar metals.

PAYMENT: 30' Light Pole Foundations shall be paid for at the unit price bid per each foundation.

Aluminum base complete with hardware, bolts, lugs, washers, etc., zinc rich paint, and installation shall be included with ground-mounted poles for payment.

* AT-C Base can be used with 6" or 8½" dia. base poles, if desired, in order to reduce maintenance items.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-66-20.83

311
495

11
30

124

VILLAGE OF GAHANNA
CITY OF COLUMBUS CORP LINE

1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464

℄ I-270

Match Line Bottom of this Sheet

SIGN # 551

END PROJECT	BEGIN PROJECT
FRA-270-22.93N	FRA-270-25.39N
STA. 1452+00.0	STA. 1452+00.0

CONNECT CABLES TO EXISTING TYPE I CONNECTORS IN EXISTING PULL BOX

CIRCUIT C_1, 2-#4 AWG., 1¼" PA. DUCT

STA. 1456+80

STA. 1461+60
(2-1)

VILLAGE OF GAHANNA
MIFFLIN TOWNSHIP

STA. 1466+40
(2-1) VOLTAGE DROP = 4.11 %

STA. 1472+20

STA. 1478+01 (Y) B-9
700 W. - TYPE III - M.C. (15) 41.7

STA. 1479+76 (Y)
700 W - TYPE III M.C. (15) 41.7
FUTURE

VILLAGE OF GAHANNA

Match Line Top of this Sheet

SIGN # 552

1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479

℄ I-270

VILLAGE OF GAHANNA
MIFFLIN TOWNSHIP

CITY OF COLUMBUS
CORPORATION LINE
MIFFLIN TOWNSHIP

Match Line See Sheet No 12

FOR LEGEND SEE SHEET No 6

LIGHTING PLAN

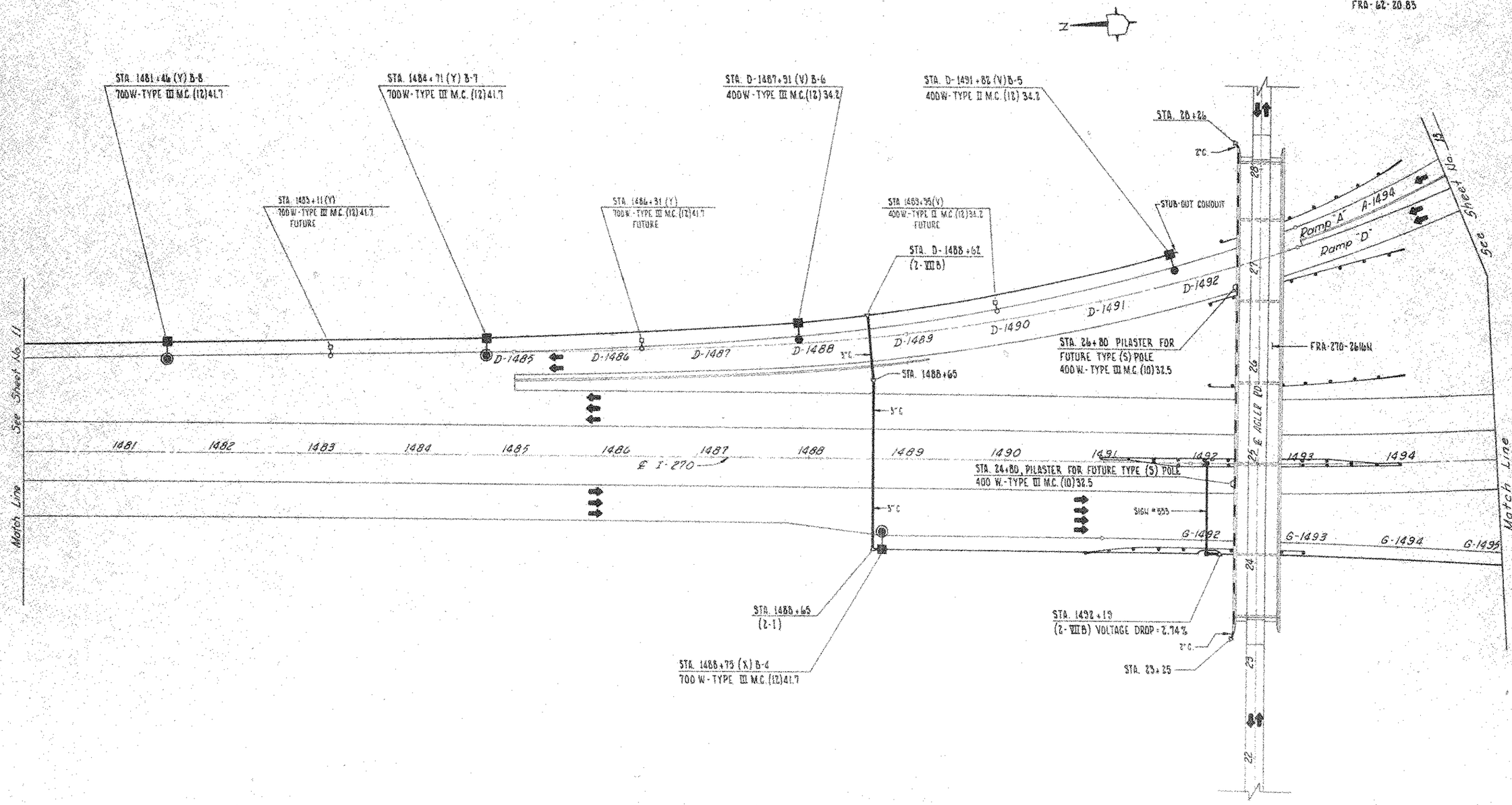
11
30

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

312/495

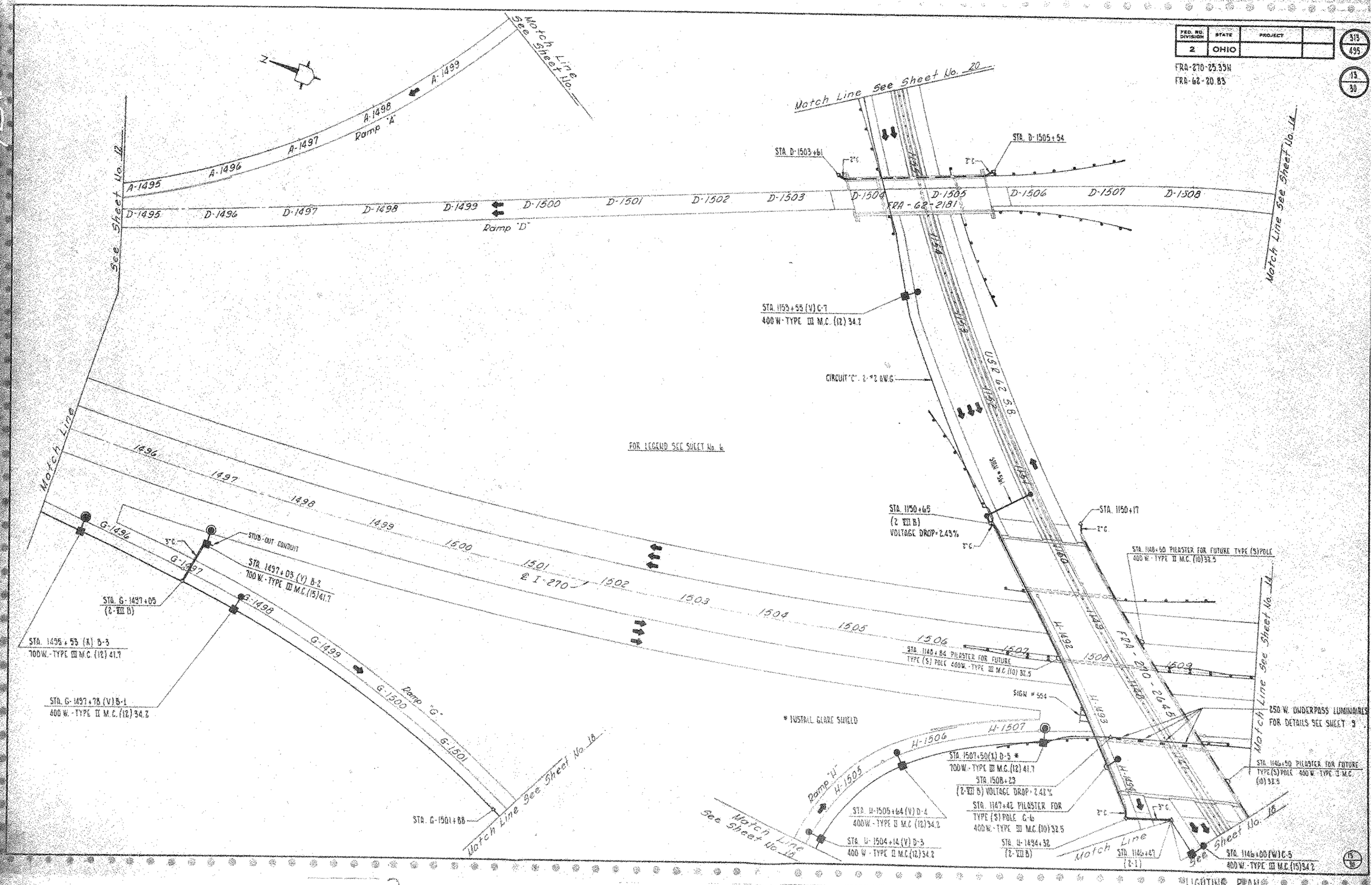
12/30



FOR LEGEND SEE SHEET No. 6.

LIGHTING PLAN

12/30



FED. RD. DIVISION 2
STATE OHIO
PROJECT
FRA-270-25.35N
FRA-62-20.83
313/495
13/30
Match Line See Sheet No. 20
Match Line See Sheet No. 12
Match Line See Sheet No. 14
Match Line See Sheet No. 18
Ramp "A"
Ramp "D"
Ramp "G"
Ramp "H"
A-1495
A-1496
A-1497
A-1498
A-1499
D-1495
D-1496
D-1497
D-1498
D-1499
D-1500
D-1501
D-1502
D-1503
D-1504
D-1505
D-1506
D-1507
D-1508
STA. D-1503+61
STA. D-1505+54
FRA-62-2181
STA. 1153+55 (V) C-7
400 W - TYPE III M.C. (12) 34.2
CIRCUIT "C" - 2-#2 AWG
USR 62 S.B.
FOR LEGEND SEE SHEET No. 6
STA. 1150+65
(2 VIII B)
VOLTAGE DROP = 2.43%
STA. 1150+17
STA. 1148+50 PILASTER FOR FUTURE TYPE (S) POLE
400 W - TYPE II M.C. (10) 32.5
STA. 1148+84 PILASTER FOR FUTURE
TYPE (S) POLE 400W - TYPE III M.C. (10) 32.5
FRA-270-2645
SIGN # 554
250 W. UNDERPASS LUMINAIRES
FOR DETAILS SEE SHEET 9
STA. 1146+50 PILASTER FOR FUTURE
TYPE (S) POLE 400 W - TYPE II M.C.
(10) 32.5
STA. 1146+00 (W) C-5
400 W - TYPE III M.C. (15) 34.2
STA. 1146+47
(2-1)
STA. 1147+42 PILASTER FOR
TYPE (S) POLE C-6
400 W - TYPE III M.C. (10) 32.5
STA. 1507+50 (X) D-5 *
700 W - TYPE III M.C. (12) 41.7
STA. 1508+23
(2-VIII B) VOLTAGE DROP = 2.42%
STA. H-1505+64 (V) D-4
400 W - TYPE II M.C. (12) 34.2
STA. H-1504+14 (V) D-3
400 W - TYPE II M.C. (12) 34.2
STA. H-1494+32
(2-VIII B)
* INSTALL GLARE SHIELD
STA. G-1501+88
STA. G-1497+78 (V) B-1
400 W - TYPE II M.C. (12) 34.2
STA. 1496+53 (X) B-3
700 W - TYPE III M.C. (12) 41.7
STA. G-1497+05
(2-VIII B)
STA. 1497+03 (V) B-2
700 W - TYPE III M.C. (15) 41.7
STUB-OUT CONDUIT
℄ I-270
G-1496
G-1497
G-1498
G-1499
G-1500
G-1501
H-1492
H-1493
H-1505
H-1506
H-1507
LIGHTING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.33W
FRA-62-20.83

316
495

14
30

FOR LEGEND SEE SHEET No 6
* INSTALL GLARE SHIELD

STA. C-1518+00 (2-1)
STA. 1151+50 (2-1)
STA. 1150+48(W) X-6 400W-TYPE III M.C.(15) 34.2
STA. 1150+35 2-VIII B
STA. D-1516+40 (W) X-5 400 W.-TYPE II M.C.(15) 34.2 VOLTAGE DROP= 2.95%
STUB-OUT CONDUIT
STA. D-1516+14 (Y) X-4 700 W-TYPE III M.C. (15) 41.7
STA. D-1517+80 (Y) X-3 700 W.-TYPE III M.C.(15) 41.7
STA. 1146+31 (2-1)
STA. I-1522+50 PILASTER FOR FUTURE TYPE (T) POLE 400W-TYPE III M.C. (15) 32.5
STA. D-1519+40 PILASTER FOR FUTURE TYPE (T) POLE, 700W.-TYPE III M.C. (15) 42.6
STA. I-1523+83
STA. I-1520+50 PILASTER FOR FUTURE TYPE (T) POLE, 400W.-TYPE III M.C. (15) 32.5
STA. D-1531+40 PILASTER FOR FUTURE TYPE (T) POLE 700W.-TYPE III M.C.(15) 42.6
STA. 1510+00 (X) D-6 * 700 W.-TYPE III M.C.(12) 41.7
STA. 1511+80 (X) D-7 700 W.-TYPE III M.C.(12) 41.7
STA. 1513+35 (X) D-8 700 W.-TYPE III M.C.(12) 41.7
STA. F-1514+00 (2-VIII B)
STA. F-1514+30 (V) D-10 400W.-TYPE II M.C.(12) 34.2
STUB-OUT CONDUIT
STA. 1515+09 (X) D-9 700 W.-TYPE III M.C.(12) 41.7 VOLTAGE DROP= 3.21%
STA. 1514+00 (2-1)
STA. 1142+67 (2-VIII B) VOLTAGE DROP= 2.36%
CIRCUIT "I", 2-#4 AWG.
SIGN #550

Match Line
See Sheet No. 13
See Sheet No. 20
See Sheet No. 19
End Project
Sta. C-1525+50
Sta. I-1525+50
By Others
Ramp "C"
Ramp "D"
Ramp "F"
Ramp "I"
℄ I-270
FRA-270-25.33W
FRA-62-20.83

LIGHTING PLAN

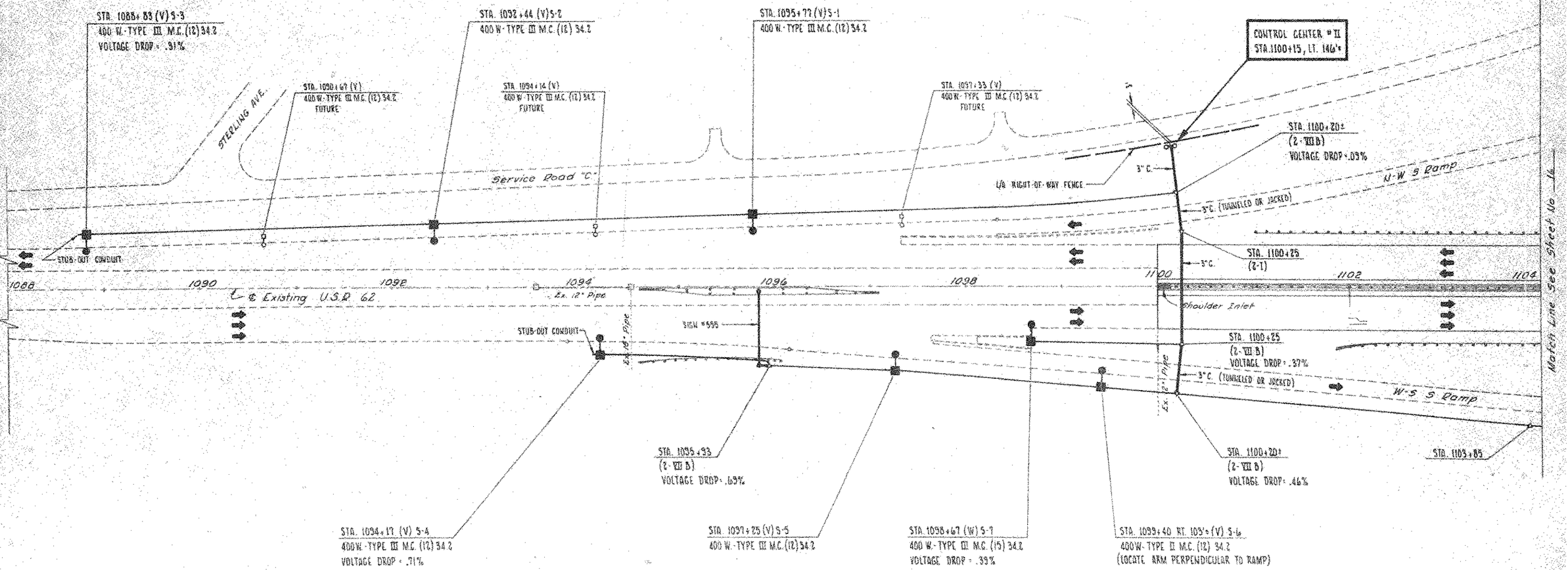
REG. RD. DIVISION	STATE	PROJECT		
2	OHIO			

315
495

FRA-270-25.39 N
FRA-62-30.83

15
30

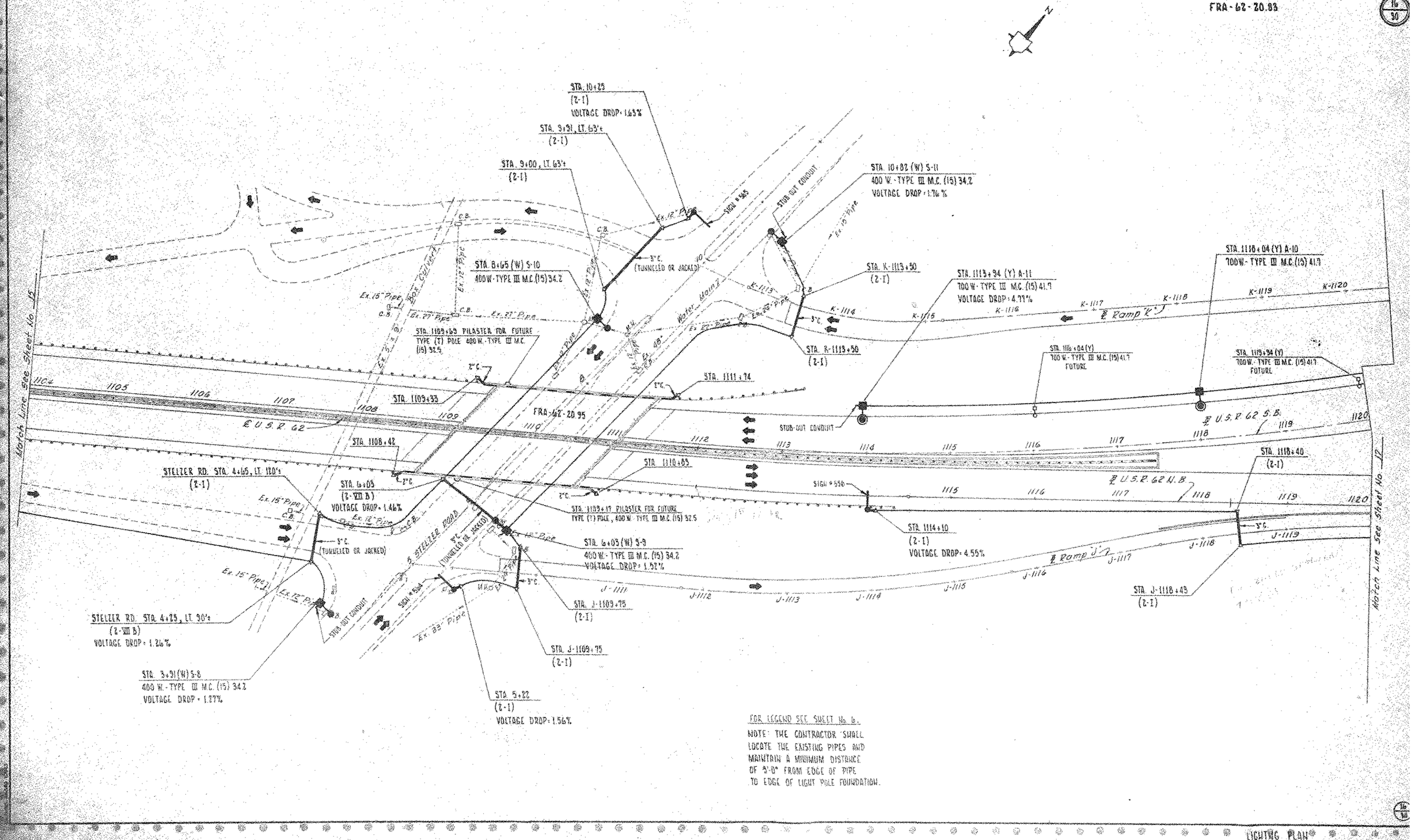
122



FOR LEGEND SEE SHEET No 16.

FED. RO. DIVISION	STATE	PROJECT	
2	OHIO		

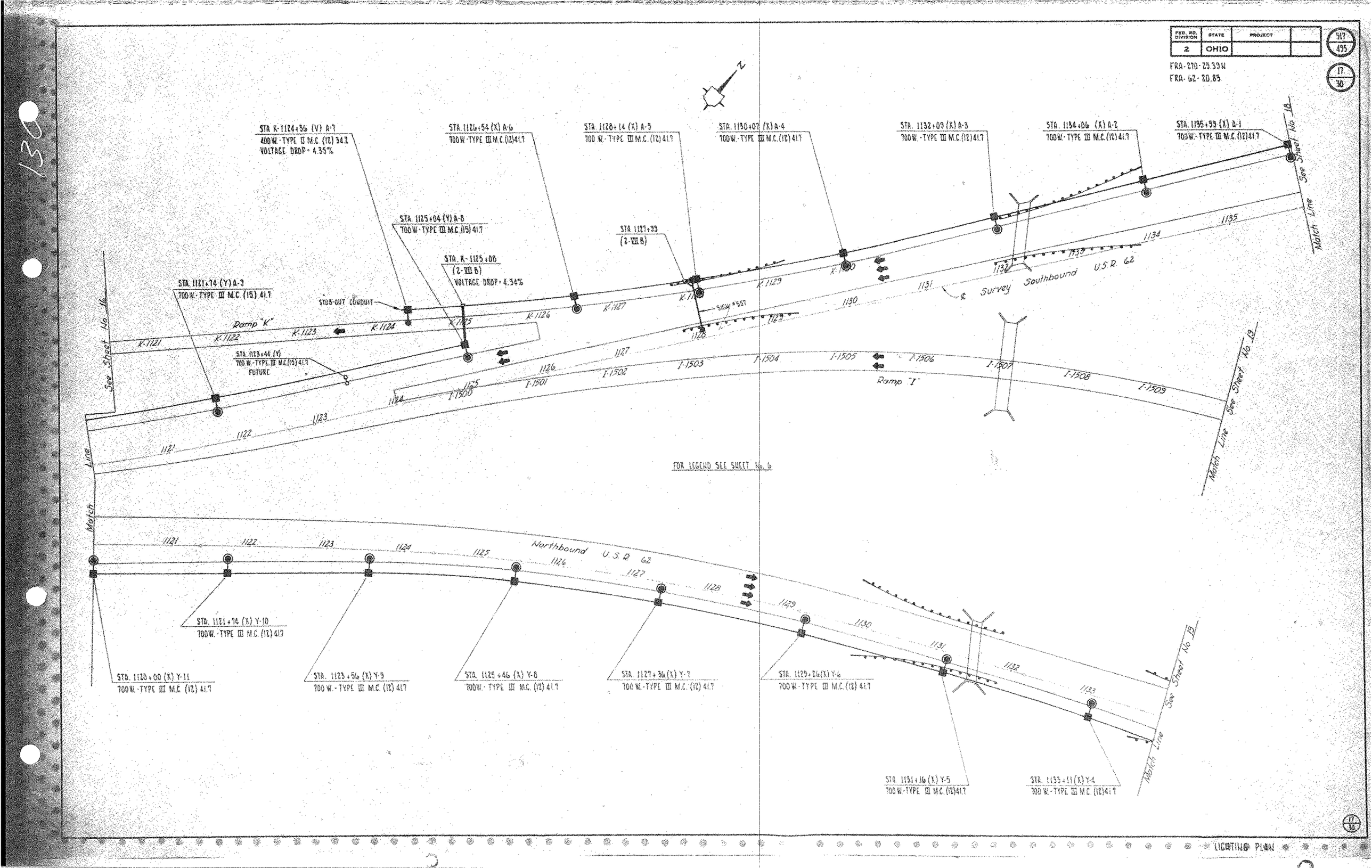
FRA-270-25.39 U
FRA-62-20.83



FOR LEGEND SEE SHEET No. 6.

NOTE: THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES AND MAINTAIN A MINIMUM DISTANCE OF 5'-0" FROM EDGE OF PIPE TO EDGE OF LIGHT POLE FOUNDATION.

LIGHTING PLAN



FED. RD. DIVISION 2
STATE OHIO
PROJECT
517/495
FRA-270-25.39N
FRA-62-20.83
17/30
130
N
STA. K-1124+36 (V) A-7
400W.-TYPE II M.C. (12) 34.2
VOLTAGE DROP = 4.35%
STA. 1126+54 (X) A-6
700W.-TYPE III M.C. (12) 41.7
STA. 1128+14 (X) A-5
700 W.-TYPE III M.C. (12) 41.7
STA. 1130+07 (X) A-4
700W.-TYPE III M.C. (12) 41.7
STA. 1132+09 (X) A-3
700W.-TYPE III M.C. (12) 41.7
STA. 1134+06 (X) A-2
700W.-TYPE III M.C. (12) 41.7
STA. 1135+99 (X) A-1
700W.-TYPE III M.C. (12) 41.7
STA. 1125+04 (Y) A-8
700W.-TYPE III M.C. (15) 41.7
STA. 1127+99
(2-VIII B)
STA. K-1125+00
(2-VIII B)
VOLTAGE DROP = 4.34%
STA. 1121+74 (Y) A-3
700W.-TYPE III M.C. (15) 41.7
STUB-OUT CONDUIT
Ramp "K"
K-1121
K-1122
K-1123
K-1124
K-1125
K-1126
K-1127
K-1128
K-1129
K-1130
STA. 1123+44 (Y)
700 W.-TYPE III M.C. (15) 41.7
FUTURE
SIGN #557
Survey Southbound U.S.R. 62
1130
1131
1132
1133
1134
1135
1126
1127
1128
1129
1124
1125
1123
1122
1121
I-1500
I-1501
I-1502
I-1503
I-1504
I-1505
I-1506
I-1507
I-1508
I-1509
Ramp "I"
See Sheet No. 16
Match Line
See Sheet No. 18
Match Line
See Sheet No. 19
Match Line
See Sheet No. 19
FOR LEGEND SEE SHEET No. 6
Northbound U.S.R. 62
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
STA. 1121+74 (X) Y-10
700W.-TYPE III M.C. (12) 41.7
STA. 1120+00 (X) Y-11
700W.-TYPE III M.C. (12) 41.7
STA. 1123+56 (X) Y-9
700 W.-TYPE III M.C. (12) 41.7
STA. 1125+46 (X) Y-8
700W.-TYPE III M.C. (12) 41.7
STA. 1127+36 (X) Y-7
700 W.-TYPE III M.C. (12) 41.7
STA. 1129+26 (X) Y-6
700 W.-TYPE III M.C. (12) 41.7
STA. 1131+16 (X) Y-5
700 W.-TYPE III M.C. (12) 41.7
STA. 1133+11 (X) Y-4
700 W.-TYPE III M.C. (12) 41.7
LIGHTING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39H
FRA-42-20.83

310
495

18
30

Match Line See Sheet No. 14

G-1503 G-1504 G-1505 G-1506 G-1507 G-1508 G-1509 G-1510 G-1511 G-1512 G-1513 G-1514 G-1515 G-1516 G-1517 G-1518

STA. G-1506+53
(4-1)

R/W FENCE

CKT "B" CKT "A" CKT "D" CKT "C"

STA. G-1506+55, RT. 35'
CONTROL CENTER & SERVICE POLE "I"

STA. G-1506+58
(4-1)

STA. G-1508+00
(4-1)

STA. G-1508+00
(4-1)

Match Line See Sheet No. 13

COST-17

U-1502 U-1501 U-1500 U-1499 U-1498 U-1497 U-1496

Ramp "U"

STA. U-1495+14 (V) C-1
400 W.- TYPE II M.C. (12) 34.2

STA. U-1502+64 (V) D-2
400 W.- TYPE II M.C. (12) 34.2

STA. U-1496+64 (V) C-3
400 W.- TYPE II M.C. (12) 34.2

STA. U-1501+14 (V) D-1
400 W.- TYPE II M.C. (12) 34.2

STA. U-1498+14 (V) C-2
400 W.- TYPE II M.C. (12) 34.2

STA. U-1499+64 (V) C-1
400 W.- TYPE II M.C. (12) 34.2

STA. U-1500+45
(4-1)

CIRCUIT "C", 2-#8 AWG

FRA-270-2645N

STA. 1145+60

See Sheet No. 13

STA. 604 CONDUIT

1145 1144 1143 1142 1141 1140 1139 1138 1137

Southbound U.S.R. 62

STA. 1141+30
(2-1)
VOLTAGE DROP = 1.98%

STA. 1144+50 (V) D-17
400 W.- TYPE II M.C. (12) 34.2
VOLTAGE DROP = 3.72%

STA. F-1523+30 (V) D-16
400 W.- TYPE II M.C. (12) 34.2

STA. F-1516+40 (V) D-11
400 W.- TYPE II M.C. (12) 34.2

STA. F-1517+30 (V) D-12
400 W.- TYPE II M.C. (12) 34.2

STA. F-1519+40 (V) D-13
400 W.- TYPE II M.C. (12) 34.2

STA. F-1520+90 (V) D-14
400 W.- TYPE II M.C. (12) 34.2

STA. F-1522+40 (V) D-15
400 W.- TYPE II M.C. (12) 34.2

F-1524 F-1523 F-1522 F-1521 F-1520 F-1519 F-1518 F-1517 F-1516

Ramp "F"

Match Line See Sheet No. 14

STA. G-1513+50

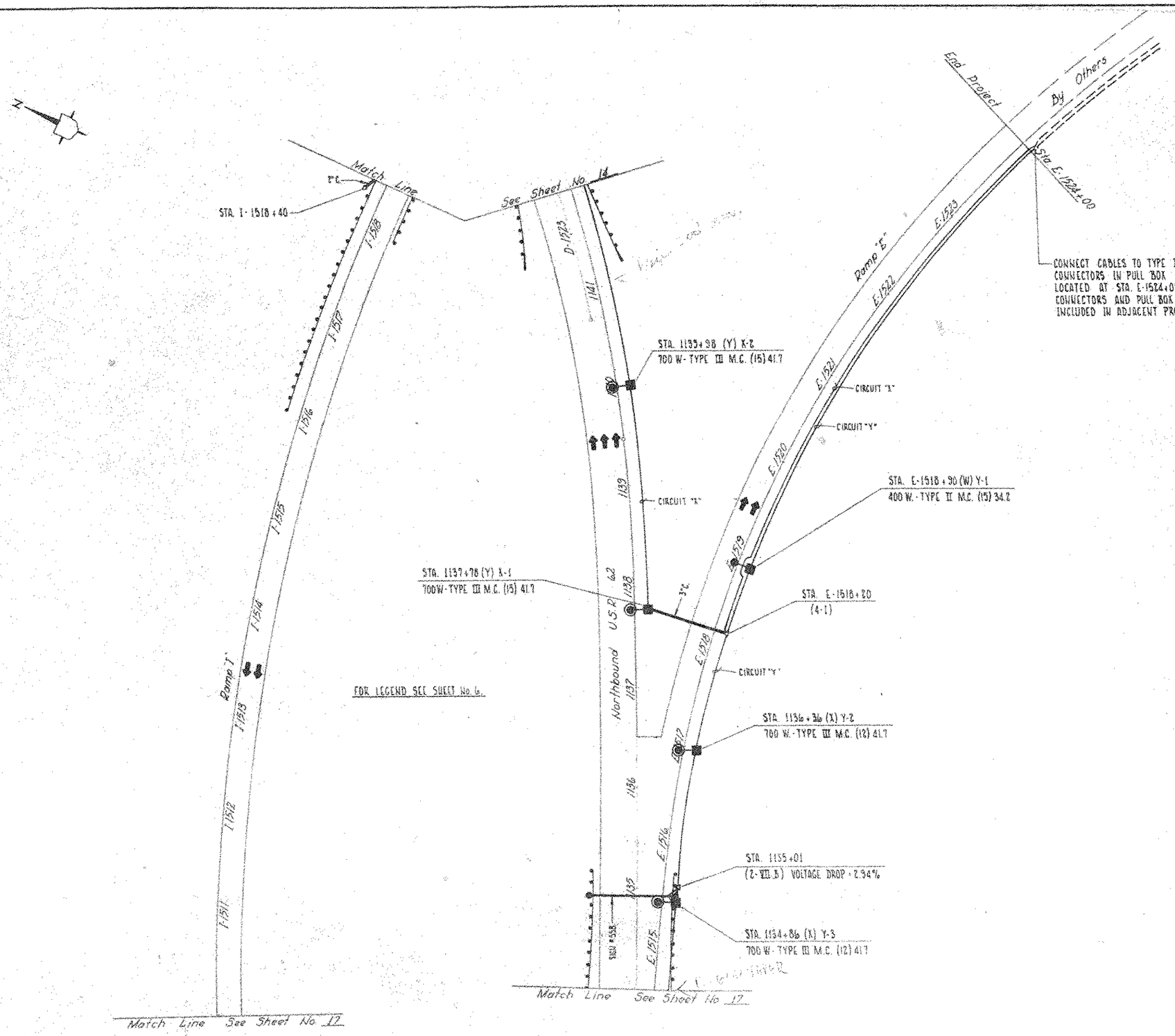
12" CONDUIT

Match Line See Sheet No. 12

FOR LEGEND SEE SHEET No. 6

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.99N
FRA-62-20.83



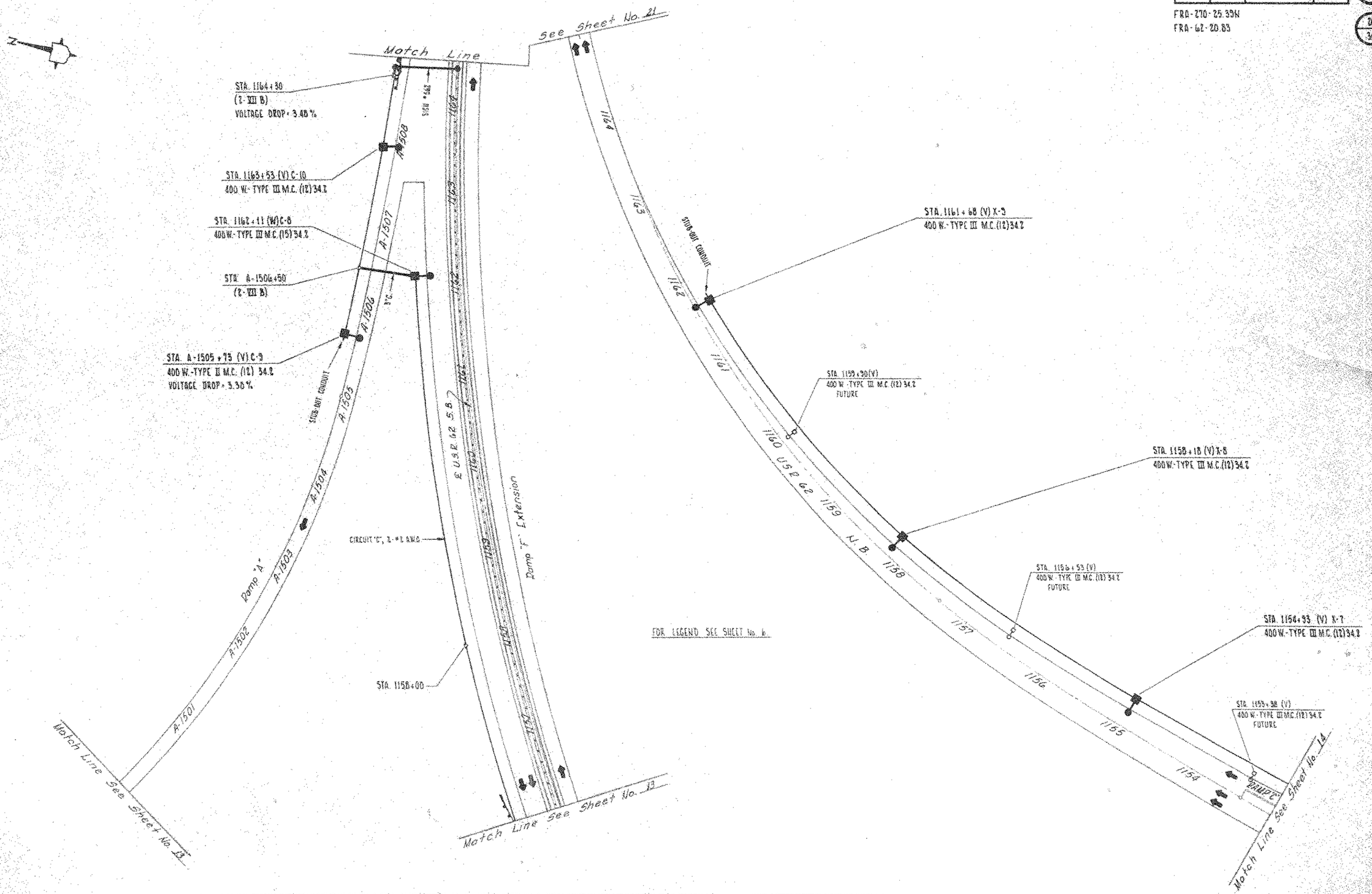
LIGHTING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

320
495

20
30

FRA-270-25.39N
FRA-62-20.83



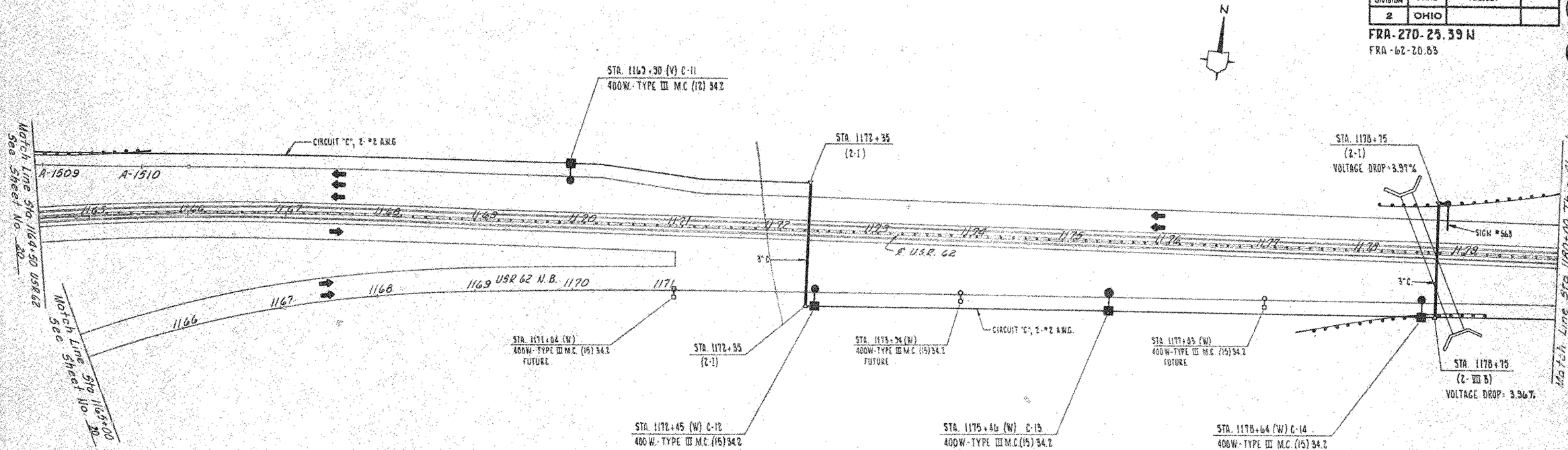
FOR LEGEND SEE SHEET No. 6

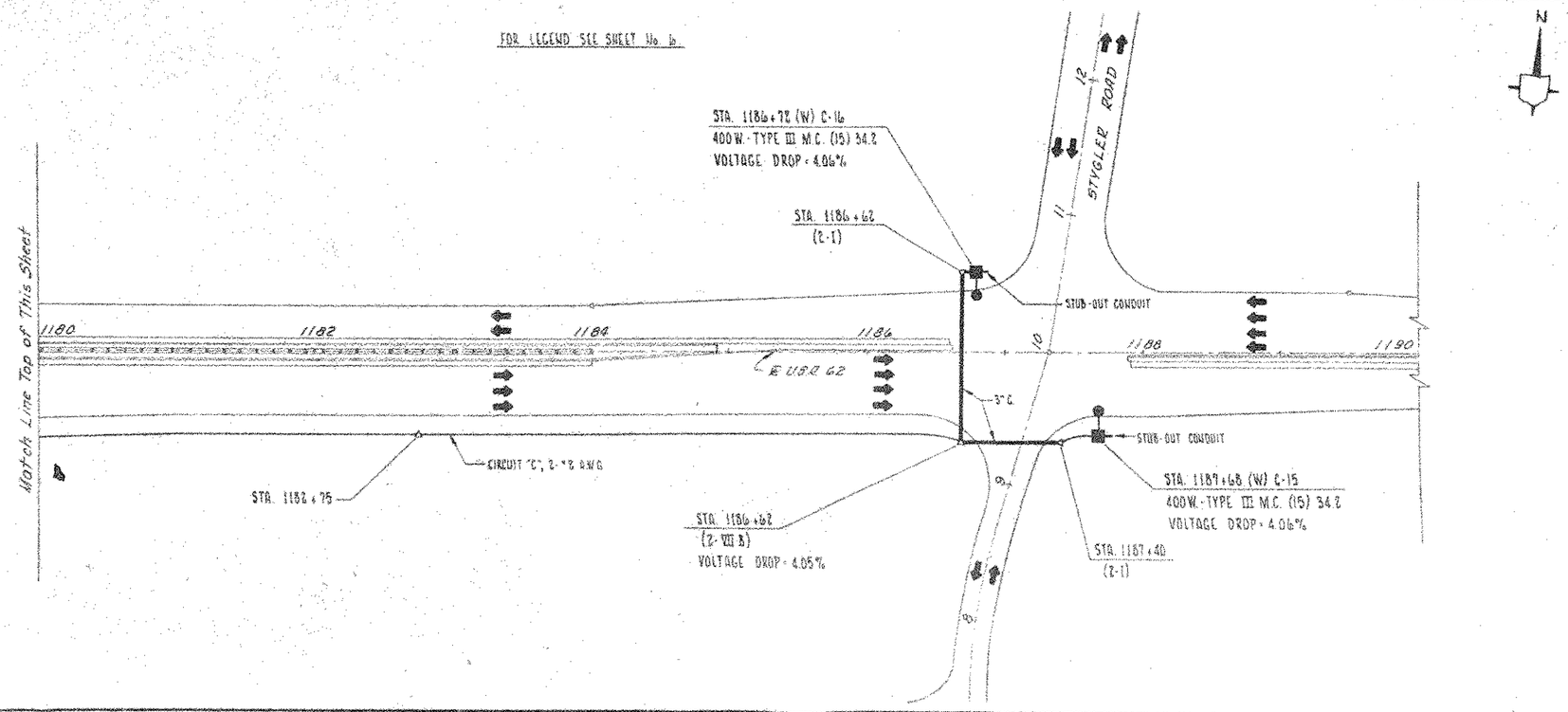
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-62-20.83

321/495
21/30

138





LIGHTING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FAP-270-25.35 N
FAA-62-20.83

312
415

22
30

LIGHTING - SUB-SUMMARY

| REFERENCE NO | SIDE | STATION | STATION | PASSIFICATION | LIGHT POLE DESIGN HA1T6342 | | | LIGHT POLE DESIGN HA1T6342AE | LIGHT POLE DESIGN HA1T6342 | LIGHT POLE DESIGN HA1T6417 | LIGHT POLE DESIGN HA1T6417 | | LIGHT POLE FOUNDATION 24"ø - 8'-0" | LIGHT POLE FOUNDATION 24"ø - 8'-0" | LUMINAIRE, TYPE II 400 WATT | LUMINAIRE, TYPE III 400 WATT | LUMINAIRE, TYPE III 250 WATT | LAMP 400W. MERCURY VAPOR | LAMP 250W. MERCURY VAPOR | GROUND ROD | TEST BOX 18" CIRCULAR | CONDUIT 2" GALV. | 2" CONDUIT TYPE II IN TRENCH | 3" CONDUIT TYPE II IN TRENCH | 3" CONDUIT JUNCTION BOX PAVEMENT, AS PER PLAN | DIRECT BURIAL CABLE NO. 2 | DIRECT BURIAL CABLE NO. 6 | BRIDGE CABLE 600 VOLT NO. 2 | DIRECT CABLE 600 VOLT NO. 2 | POLE & BRACKET CABLE NO. 00 | CONNECTOR KIT TYPE I | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | CONNECTOR KIT TYPE IV | CONTROL CENTER I | CONTROL CENTER II | STRUCTURE GROUNDING SYSTEM | STRUCTURE JUNCTION BOX 12"x12"x4" | LIGHT POLE ANCHOR "U" BOLT FOR STRUCTURE | CABLE SHIELD | LUMINAIRE, 250 WATT OUTDOORS | LAMP 250 W. MERCURY VAPOR | SLEEVEL TO UNDERDECK LIGHTING | | |

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

FRA-270-25.39 N
FRA-68-20.83

323
455

133
10

LIGHTING - SUB-SUMMARY

| REFERENCE NO. | SIDE | STATION | STATION | PARTICIPATION | LIGHT POLE DESIGN 7A10832.6 | | | LIGHT POLE DESIGN 11AT2B342 | LIGHT POLE DESIGN 11AT5B342 | LIGHT POLE DESIGN 11AT2B417 | LIGHT POLE DESIGN 11AT5B417 | | LIGHT POLE FOUNDATION 24"x6'-0" | LIGHT POLE FOUNDATION 24"x8'-0" | LUMINAIRE, TYPE II 400 WATT | LUMINAIRE, TYPE III 400 WATT | LUMINAIRE, TYPE III 700 WATT | LAMP 400W., MERCURY VAPOR | LAMP 700 W., MERCURY VAPOR | GROUND ROD | PULL BOX 18" CIRCULAR | TRENCH 2'-0" DEEP | | 2" CONDUIT TYPE II or TYPE III | 3" CONDUIT TYPE II or TYPE III | 3" CONDUIT, JACKED UNDER PAVEMENT, AS PER PLANS | DIST. CIRCUIT CABLE NO. 2 | DIST. CIRCUIT CABLE NO. 4 | DUCT, CABLE, 600 VOLT 1½", TWO NO. 4 | DUCT, CABLE, 600 VOLT 1½", TWO NO. 2 | POLE & BRACKET CABLE NO. 10 | CONNECTOR KIT TYPE I | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | CONNECTOR KIT TYPE III & | CONTROL CENTER I | CONTROL CENTER II | STRUCTURE GROUNDING SYSTEM | STRUCTURE JUNCTION BOX 16"x12"x6" | LIGHT POLE ANCHOR "U" BOLT FOR STRUCTURE | GLOBE SHIELD | LUMINAIRE, 250 WATT UNDERPASS | LAMP 250 W., MERCURY VAPOR | SERVICE TO UNDERDECK LIGHTING | | | | | | | | |
|---|---|---|---|---

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 M
FRA-62-20.83

324
495

24
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LIGHTING - SUB-SUMMARY

REFERENCE No.	SIDE	STATION	STATION	PARTICIPATION	LIGHT POLE DESIGN TA10B32.6			LIGHT POLE DESIGN HAT12B342	LIGHT POLE DESIGN HAT15B342	LIGHT POLE DESIGN HAT12B617	LIGHT POLE DESIGN HAT15B617		LIGHT POLE FOUNDATION 28"x6'-0"	LIGHT POLE FOUNDATION 24"x8'-0"	LUMINAIRE, TYPE II 400 WATT	LUMINAIRE, TYPE III 400 WATT	LUMINAIRE, TYPE III 700 WATT	LAMP 400W., MERCURY VAPOR	LAMP 700 W., MERCURY VAPOR	GROUND ROD	PULL BOX 18" CIRCULAR	TRENCH 2'-0" DEEP		2" CONDUIT TYPE II or TYPE III	3" CONDUIT TYPE II or TYPE III	3" CONDUIT, JACKED UNDER PAVEMENT AS PER PLAN	DIST. CIRCUIT CABLE NO. 2	DIST. CIRCUIT CABLE NO. 2		DUCT, CABLE, 600 VOLT 1½", TWO NO. 2	DUCT, CABLE, 600 VOLT 1½", TWO NO. 4	POLE & BRACKET CABLE NO. 10	CONNECTOR KIT TYPE I	CONNECTOR KIT TYPE II	CONNECTOR KIT TYPE III	CONNECTOR KIT TYPE III B	CONTROL CENTER I	CONTROL CENTER II	STRUCTURE GROUNDING SYSTEM	STRUCTURE JUNCTION BOX 15"x12"x6"	LIGHT POLE ANCHOR "U" BOLT FOR STRUCTURE	GLARE SHIELD	LUMINAIRE, 250 WATT UNDERPASS	LAMP 250 W., MERCURY VAPOR	SERVICE TO UNDERDECK LIGHTING								
					EA.			EA.	EA.	EA.	EA.		EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.		L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	LUMP	LUMP	EA.	EA.	EA.	EA.	EA.	EA.	LUMP								
	RT.	1510+00		RURAL				1						1		1		1	1			180								190	107.4		1	1						1												
	RT.	1510+00	1511+80	1																																															
	RT.	1511+80						1						1		1		1	1			155								165	107.4		1	1																		
	RT.	1511+80	1513+35																																															
	RT.	1513+35						1						1		1		1	1			65								75																					
	RT.	1513+35	F-1514+00																																															
	RT.	F-1514+00																				51			51			122																						
	RT.	F-1514+00	1514+00																																															
	RT.	1514+00																																																
	RT.	1514+00	1515+09																			109								119		2																	
	RT.	1515+09						1						1		1		1	1												107.4		1	1																
	RT.	1514+00	F-1514+90																			80								100																			
	RT.	F-1514+90			1								1		1			1	1												92.4		1	1																
	RT.	F-1514+90	F-1516+90																			110								115																			
	RT.	1142+00 N.B.62	1142+67 N.B.62																			67								72																			
	RT.	1142+67 N.B.62																																																
	RT.	1142+67 N.B.62	1142+80 N.B.62																			13		13			36																						
	P/L	1142+80 N.B.62	D-1521+40																					*40			*90																					
	LT.	D-1521+40																																															
	LT.	D-1521+40	D-1519+60																					*180			*360																					
	LT.	D-1519+60																																															
	L/R	D-1519+60	1149+21 N.B.62																					*121			*252																					
	RT.	1149+21 N.B.62	1156+31 N.B.62																			10		10			30																					
	RT.	1156+31 N.B.62																			1																													
	P/L	1156+31 N.B.62	D-1517+80																																														
	LT.	D-1517+80						1					1					1	1			57								124		2																		
	LT.	D-1517+80	D-1516+14																														113.4		1	1														
	LT.	D-1516+14																																															
	L/R	D-1516+14	1150+35 N.B.62																																														
	RT.	1150+35 N.B.62																			1																													
	P/L	1150+35 N.B.62	D-1514+40																																														
	LT.	D-1514+40						1					1					1	1			68			60		140																					
	RT.	1150+35 N.B.62	1150+48 N.B.62																			13								23	98.4		1	1															
	RT.	1150+48 N.B.62						1					1					1	1												98.4		1	1															
	RT.	1150+48 N.B.62	1151+50 N.B.62																			102								112																		
	RT.	1151+50 N.B.62																			1										2																		
	P/L	1151+50 N.B.62	C-1518+00																			38			38		96																					
	LT.	C-1518+00																			1										2																		
	RT.	C-1518+00	C-1517+55																			45								58																		
	LT.	I-1518+50	I-1520+50																					*200																								
	LT.	I-1520+50																																															
	LT.	I-1520+50	I-1522+50																					*200																								
	LT.	I-1522+50																																															
	LT.	I-1522+50	I-1523+73																					*125																								
	LT.	I-1523+73	I-1523+83	V																		10		10																								
	LT.	I-1523+83		RURAL																																														
TOTALS	SHEET No. 14				1	2	6	2		3	6	3		6	3	6	3	8	1521			897	149		1146		1691	945.6	8	3	9	6		2	6	8														

Sheet No. 14

*STRUCTURE QUANTITIES

24
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LIGHTING SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-42-20.83

LIGHTING - SUB-SUMMARY

REFERENCE No.	SIDE	STATION	STATION	PARTICIPATION	LIGHT POLE DESIGN TA10838.6	LIGHT POLE DESIGN HA128342	LIGHT POLE DESIGN HA165342	LIGHT POLE DESIGN HA128447	LIGHT POLE DESIGN HA165447	LIGHT POLE FOUNDATION 24"x6'-0"	LIGHT POLE FOUNDATION 24"x8'-0"	LUMINAIRE, TYPE II 400 WATT	LUMINAIRE, TYPE III 400 WATT	LUMINAIRE, TYPE III 700 WATT	LAMP 400W. MERCURY VAPOR	LAMP 700W. MERCURY VAPOR	GROUND ROD	PULL BOX 48" CIRCULAR	TRENCH 2'-0" DEEP		2" CONDUIT TYPE II 6" TYPE III	3" CONDUIT TYPE II 6" TYPE III	3" CONDUIT JACKED UNDER PAVEMENT OPERATION	DIST. CIRCUIT CABLE NO. 2	DIST. CIRCUIT CABLE NO. 4	DIST. CABLE 600 VOLT 1#8, 1#10 AND 2	DIST. CABLE 600 VOLT 1#8, 1#10 AND 4	POLE & BRACKET CABLE NO. 06	CONNECTOR KIT TYPE I	CONNECTOR KIT TYPE II	CONNECTOR KIT TYPE III	CONNECTOR KIT TYPE IV	CONTROL CENTER I	CONTROL CENTER II	STRUCTURE GROUNDING SYSTEM	STRUCTURE JUNCTION BOX 12"x12"x5"	LIGHT POLE ANCHOR 4" BOLT FOR STRUCTURE	GLARE SHIELD	LUMINAIRE, 250 WATT UNDERPASS LAMP 250 W. MERCURY VAPOR	SERVICE TO UNDERDECK LIGHTING	
					EA.					EA.		EA.	EA.	EA.	EA.	EA.	EA.	EA.	LF		LF	LF	LF	LF	LF	LF	LF	LF	EA.	EA.	EA.	EA.	LUMP	LUMP	EA.	EA.	EA.	EA.	EA.	EA.	LUMP
	LT.	1100+15 U.S.R.62	1100+20 U.S.R.62	U-202(S)														1																							
	LT.	1100+20 U.S.R.62		1																													LUMP							
	LT.	1100+20 U.S.R.62	1095+77 U.S.R.62															1																2							
	LT.	1095+77 U.S.R.62				1				1			1		1		1		448							448															
	LT.	1095+77 U.S.R.62	1092+44 U.S.R.62																333							343		92.4		1	1										
	LT.	1092+44 U.S.R.62				1				1			1		1		1																								
	LT.	1092+44 U.S.R.62	1088+83 U.S.R.62																391							371		92.4		1	1										
	LT.	1088+83 U.S.R.62				1				1			1		1		1																								
	LT.	1088+20 U.S.R.62	1100+25 U.S.R.62																				36		32															
	LT.	1100+25 U.S.R.62																1										2												
	L/R	1100+25 U.S.R.62	1100+25 U.S.R.62																117			117			258															
	RT.	1100+25 U.S.R.62																1															2							
	RT.	1098+25 U.S.R.62	1098+67 U.S.R.62																158							168														
	RT.	1098+67 U.S.R.62				1				1			1		1		1										98.4		1	1											
	RT.	1100+25 U.S.R.62	1100+20 U.S.R.62																				54		128															
	RT.	1100+20 U.S.R.62																1															2							
	RT.	1098+17 U.S.R.62				1				1			1		1		1										92.4		1	1											
	RT.	1098+17 U.S.R.62	1095+93 U.S.R.62																176							186														
	RT.	1095+93 U.S.R.62																1															2							
	RT.	1095+93 U.S.R.62	1097+25 U.S.R.62																132							142														
	RT.	1097+25 U.S.R.62				1				1			1		1		1										92.4		1	1											
	RT.	1097+25 U.S.R.62	1099+40 U.S.R.62																215							225														
	RT.	1099+40 U.S.R.62	1100+20 U.S.R.62			1				1			1		1		1										92.4		1	1											
	RT.	1100+20 U.S.R.62	1103+65 U.S.R.62																80							90														
	RT.	1103+65 U.S.R.62																	365							375														
	RT.	1103+65 U.S.R.62		1														1																							
	RT.	1103+65 U.S.R.62	1104+00 U.S.R.62	U-202(S)															15							20														
TOTALS SHEET No. 15						6	1			7		1	6		7		7	6	2395			117	90		874		2373	652.8	2	7	7	8	LUMP							
	RT.	1104+00 U.S.R.62	6+23 Stelzer Rd.	U-202(S)															355							360														
	LT.	6+23 Stelzer Rd.																1															2							
	LT.	6+23 Stelzer Rd.	3+91 Stelzer Rd.																63							73														
	LT.	3+91 Stelzer Rd.					1				1			1		1		1										98.4		1	1										
	LT.	6+23 Stelzer Rd.	6+65 Stelzer Rd.																				52		124															
	LT.	6+65 Stelzer Rd.																1										2												
	LT.	6+65 Stelzer Rd.	6+03 Stelzer Rd.																166							176														
	LT.	6+03 Stelzer Rd.																1															2							
	LT.	6+03 Stelzer Rd.	5+65 Stelzer Rd.																262							272														
	LT.	5+65 Stelzer Rd.					1				1			1		1		1										98.4		1	1										
	LT.	5+65 Stelzer Rd.	5+00 Stelzer Rd.																49							96														
	LT.	5+00 Stelzer Rd.																1											2											
	LT.	5+00 Stelzer Rd.	3+91 Stelzer Rd.																				97		202															
	LT.	5+91 Stelzer Rd.																1											2											
	LT.	3+91 Stelzer Rd.	10+25 Stelzer Rd.																35							45														
	LT.	10+25 Stelzer Rd.																1											2											
	L/R	6+03 Stelzer Rd.	6+03 Stelzer Rd.																				109		229															
	RT.	6+03 Stelzer Rd.					1				1			1		1		1										98.4		1	1	2								
	R/L	6+03 Stelzer Rd.	J-1103+75																87							97														
	LT.	J-1103+75																	1										2											
	L/R	J-1103+75	J-1103+75	U-202(S)															48			88			116															

Sheet No. 15

Sheet No. 16

LIGHTING - SUB-SUMMARY

| REFERENCE No. | SIDE | STATION | STATION | PARTICIPATION | LIGHT POLE DESIGN 7810832.6 | | | LIGHT POLE DESIGN 11AT28342 | LIGHT POLE DESIGN 11AT15342 | LIGHT POLE DESIGN 11AT28417 | LIGHT POLE DESIGN 11AT15417 | | LIGHT POLE FOUNDATION 24"x8'-0" | LIGHT POLE FOUNDATION 24"x8'-0" | LUMINAIRE, TYPE II 400 WATT | LUMINAIRE, TYPE III 400 WATT | LUMINAIRE, TYPE III 700 WATT | LAMP 400W, MERCURY VAPOR | LAMP 700W, MERCURY VAPOR | GROUND ROD | PULL BOX 18" CIRCULAR | TRENCH 2'-0" DEEP | | 2" CONDUIT TYPE II or TYPE III | 3" CONDUIT TYPE II or TYPE III | 3" CONDUIT - JACKED UNDER PAVEMENT, AS PER PLAN | DIST CIRCUIT CABLE NO 2 | DIST. CIRCUIT CABLE NO 4 | DIST. CABLE 600 VOLT 1/2", TWO NO 2 | DIST. CABLE 600 VOLT 1/2", TWO NO 4 | POLE & BRACKET CABLE NO 10 | CONNECTOR KIT TYPE I | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | CONNECTOR KIT TYPE III B | CONTROL CENTER I | CONTROL CENTER II | STRUCTURE GROUNDING SYSTEM | STRUCTURE JUNCTION BOX 1'-0"x12"x6" | LIGHT POLE ANCHOR U-BOLT FOR STRUCTURE | GLARE SHIELD | LUMINAIRE, 250 WATT UNDERPASS LAMP 250 W. MERCURY VAPOR | SERVICE TO UNDERDECK LIGHTING | | | | | | | | |
|---|---|---

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.33 N
FRA-62-20.83

327
435

27
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LIGHTING - SUB-SUMMARY

| REFERENCE No | SIDE | STATION | STATION | PARTICIPATION | LIGHT POLE DESIGN 7A10832.b | | | LIGHT POLE DESIGN 7A10833.42 | LIGHT POLE DESIGN 7A10833.42 | LIGHT POLE DESIGN 7A10834.17 | LIGHT POLE DESIGN 7A10834.17 | | LIGHT POLE FOUNDATION 24'-4"-0" | LIGHT POLE FOUNDATION 24'-8"-0" | LUMINAIRE, TYPE II 400 WATT | LUMINAIRE, TYPE III 400 WATT | LUMINAIRE, TYPE III 700 WATT | LAMP 400 W. MERCURY VAPOR | LAMP 700 W. MERCURY VAPOR | GROUND ROD | PULL BOX 18" CIRCULAR | TRENCH 2'-0" DEEP | | 2" CONDUIT TYPE II or TYPE III | 3" CONDUIT TYPE II or TYPE III | 3"CONDUIT JOINED UNDER PAVEMENT AS PER PLAN | DIST CIRCUIT CABLE NO. 2 | DIST CIRCUIT CABLE NO. 4 | DUCT-CABLE 240 VOLT 1½", TWO NO. 2 | DUCT-CABLE 240 VOLT 1½", TWO NO. 4 | POLE & BRACKET CABLE NO. 10 | | CONNECTOR KIT TYPE I | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | CONNECTOR KIT TYPE III B | CONTROL CENTER I | CONTROL CENTER II | STRUCTURE GROUNDING SYSTEM | STRUCTURE JUNCTION BOX 15"x 12"x 6" | LIGHT POLE ANCHOR "U" BOLT FOR STRUCTURE | GLARE SHIELD | LUMINAIRE, 250 WATT UNDERPASS LAMP 250 W. MERCURY VAPOR | SERVICE TO UNDERDECK LIGHTING | | |

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FAP-270-25.39 N
FAP-62-20.83

328
695

26
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LIGHTING - SUB-SUMMARY

REFERENCE NO	SIDE	STATION	STATION	PARTICIPATION	LIGHT POLE DESIGN 7A10B32.6		LIGHT POLE DESIGN 7A10B33.2	LIGHT POLE DESIGN 7A16B33.2	LIGHT POLE DESIGN 7A12B41.7	LIGHT POLE DESIGN 7A15B41.7	LIGHT POLE FOUNDATION 24" x 6'-0"	LIGHT POLE FOUNDATION 24" x 8'-0"	LUMINAIRE, TYPE II 400 WATT	LUMINAIRE, TYPE III 400 WATT	LUMINAIRE, TYPE III 700 WATT	LAMP 400 W., MERCURY VAPOR	LAMP 700 W., MERCURY VAPOR	GROUND ROD	PULL BOX 18" CIRCULAR	TRENCH 2'-0" DEEP	2" CONDUIT TYPE II or TYPE III	3" CONDUIT TYPE II or TYPE III	3" CONDUIT, JACKED UNDER PAVEMENT, ASPH. PLUG	DIST. CIRCUIT CABLE NO. 2	DIST. CIRCUIT CABLE NO. 4	DUCT CABLE, 600 VOLT 1½", TWO NO. 2	DUCT CABLE, 600 VOLT 1½", TWO NO. 4	POLE & BRACKET CABLE NO. 10	CONNECTOR KIT TYPE I	CONNECTOR KIT TYPE II	CONNECTOR KIT TYPE III	CONNECTOR KIT TYPE III B	CONTROL CENTER I	CONTROL CENTER II	GROUNDING SYSTEM	STRUCTURE JUNCTION BOX 16" x 12" x 6"	LIGHT POLE ARMOR 10' BELT FOR STRUCTURE	GLARE SHIELD	LUMINAIRE, 250 WATT UNDERPASS	LAMP 250 W. MERCURY VAPOR	SERVICE TO UNDERPASS LIGHTING								
					EA.		EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	LUMP	LUMP	EA.	EA.	EA.	SA.	EA.	EA.	LUMP								
	RT.	H-1502+68	H-1504+00	RURAL																136							18																						
	RT.	H-1500+85	H-1499+68	1																81						91																						
	RT.	H-1499+68					1				1		1			1		1		150						160		92.4		1	1																	
	RT.	H-1498+68	H-1498+18																																														
	RT.	H-1498+18					1				1		1			1		1		150						160		92.4		1	1																	
	RT.	H-1498+18	H-1496+68																																														
	RT.	H-1496+68					1				1		1			1		1		150						160		92.4		1	1																	
	RT.	H-1496+68	H-1495+18																																														
	RT.	H-1495+18					1				1		1			1		1		150						160		92.4		1	1																	
	RT.	H-1495+18	H-1494+50																																														
	RT.	H-1494+50																		64						69																						
	LT.	1164+09 S.B.62	1161+90 S.B.62																	410																											
	LT.	1161+90 S.B.62																	1																													
	RT.	F-1516+90	F-1516+40																	40									2																			
	RT.	F-1516+40					1				1		1			1		1										92.4		1	1																	
	RT.	F-1516+40	F-1517+90																	150																													
	RT.	F-1517+90					1				1		1			1		1										92.4		1	1																	
	RT.	F-1517+90	F-1519+40																	150																													
	RT.	F-1519+40					1				1		1			1		1										92.4		1	1																	
	RT.	F-1519+40	F-1520+90																	150																													
	RT.	F-1520+90					1				1		1			1		1										92.4		1	1																	
	RT.	F-1520+90	F-1522+40																	150																													
	RT.	F-1522+40					1				1		1			1		1										92.4		1	1																	
	RT.	F-1522+40	F-1523+90																	150																													
	RT.	F-1523+90					1				1		1			1		1										92.4		1	1																	
	RT.	F-1523+90	1164+50 S.B.62																	200																													
	RT.	1164+50 S.B.62					1				1		1			1		1										92.4		1	1																	
	RT.	1165+90 S.B.62																	1																													
	RT.	1165+80 S.B.62	1165+90 S.B.62																	10		10																											
	RT.	1165+90 S.B.62	1166+80 S.B.62	RURAL																		* 10																											
TOTALS		SHEET No. 18					13				13		13			13		13	8	4439		20	86		212	212	792	3735	1201.2	24	13	13		LUMP																
	RT.	1134+00 N.B.62	1134+15 N.B.62	RURAL																15								15																						
	RT.	1134+15 N.B.62	1134+86 N.B.62	1																71								75																						
	RT.	1134+86 N.B.62						1				1					1		1									107.4		1	1																	
	RT.	1134+86 N.B.62	1135+01 N.B.62																	15								25																						
	RT.	1135+01 N.B.62																	1																													
	RT.	1135+01 N.B.62	1135+20 N.B.62																	19								24																						
	RT.	1135+20 N.B.62	1136+36 N.B.62																	116								121																						
	RT.	1136+36 N.B.62						1				1					1		1									107.4		1	1																	
	RT.	1136+36 N.B.62	E-1518+20																	125								135																						
	RT.	E-1518+20																	1										4																					
	RT.	E-1518+20	E-1518+90																	70								155																						
	RT.	E-1518+90						1				1					1		1									58.6		1	1																	
	RT.	E-1518+90	E-1524+02																	512								1099																						
	RT.	E-1518+20	1137+78 N.B.62																	80		80			180																								
	RT.	1137+78 N.B.62							1			1					1		1									113.6		1	1																	
	RT.	1137+78 N.B.62	1139+98 N.B.62																	220								230																						
	RT.	1139+98 N.B.62							1			1					1		1									113.6		1	1																	

Sheet No. 18

Sheet No. 19

* STRUCTURE QUANTITIES

FED. RG. DIVISION	STATE	PROJECT		
2	OHIO			

FRA-270-25.33 N
FRA-62-20.83

329
495

29
30

LIGHTING - SUB-SUMMARY

REFERENCE No.	SIDE	STATION	STATION	PARTICIPATION	LIGHT POLE DESIGN TA10832.6 EA.			LIGHT POLE DESIGN HA78342 EA.	LIGHT POLE DESIGN HA78342 EA.	LIGHT POLE DESIGN HA78417 EA.	LIGHT POLE DESIGN HA78417 EA.		LIGHT POLE FOUNDATION 24"x6'-0" EA.	LIGHT POLE FOUNDATION 24"x8'-0" EA.	LUMINAIRE, TYPE II 400 WATT EA.	LUMINAIRE, TYPE III 400 WATT EA.	LUMINAIRE, TYPE III 700 WATT EA.	LAMP 400W. MERCURY VAPOR EA.	LAMP 700 W. MERCURY VAPOR EA.	GROUND ROD EA.	PULL BOX 18" CIRCULAR EA.	TRENCH 2'-0" DEEP L.F.	2" CONDUIT TYPE II or TYPE III L.F.	3" CONDUIT TYPE II or TYPE III L.F.	3"CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN L.F.	DIST. CIRCUIT CABLE NO. 2 L.F.	DIST. CIRCUIT CABLE NO. 6 L.F.	DUCT CABLE, 600 VOLT 1"ø, TWO NO. 10 L.F.	DUCT CABLE, 600 VOLT 1"ø, TWO NO. 4 L.F.	POLE & BRACKET CABLE NO. 10 L.F.	CONNECTOR KIT TYPE I EA.	CONNECTOR KIT TYPE II EA.	CONNECTOR KIT TYPE III EA.	CONNECTOR KIT TYPE VIII EA.	CONTROL CENTER I LUMP	CONTROL CENTER II LUMP	STRUCTURE GROUNDING SYSTEM EA.	STRUCTURE JUNCTION BOX 15"x12"x6" EA.	LIGHT POLE ANCHOR 4" BOLT FOR STRUCTURE EA.	GLOBE SHIELD EA.	LUMINAIRE, 250 WATT MOGUL BYPASS EA.	LAMP 250 W. MERCURY VAPOR EA.	SERVICE TO WOOD DOCK LIGHTING LUMP
	RT.	1139+98 N.B.62	1142+00 N.B.62	RURAL																		202						201													
	LT.	E-1518+60																			1																					
	LT.	E-1518+60	E-1518+50	RURAL																		10	10																				
TOTALS	SHEET No. 19							1	2	2		1	4	1		4	1	4	5	3	1055	10	80			150		202	540.0	4	5	5	2										
	RT.	1153+00 N.B.62	1154+93 N.B.62	RURAL																		193							138													
	RT.	1154+93 N.B.62				1						1				1		1												92.4		1	1										
	RT.	1154+93 N.B.62	1158+18 N.B.62																			325							335													
	RT.	1158+18 N.B.62			1							1				1		1		1										92.4		1	1										
	RT.	1158+18 N.B.62	1161+68 N.B.62																			350							360													
	RT.	1161+68 N.B.62			1							1				1		1		1										92.4		1	1										
	LT.	1158+00 S.B.62	1158+00 S.B.62																			200						205													
	LT.	1158+00 S.B.62																			1																					
	LT.	1158+00 S.B.62	1162+11 S.B.62																			411						421													
	LT.	1162+11 S.B.62				1						1				1		1		1										98.4		1	1										
	LT.	1162+11 S.B.62	A-1506+50																			60		60		140															
	LT.	A-1505+73			1							1		1		1		1												92.4		1	1										
	LT.	A-1505+73	A-1506+50																			77						87													
	LT.	A-1506+50																			1													2							
	LT.	A-1506+50	1163+53 S.B.62																			140						150													
	LT.	1163+53 S.B.62			1							1		1		1		1												92.4		1	1										
	LT.	1163+53 S.B.62	1164+19 S.B.62																			57						62													
	LT.	1164+19 S.B.62	1164+30 S.B.62																			20						25													
	LT.	1164+30 S.B.62																			1													2							
	LT.	1164+30 S.B.62	1164+50 S.B.62	RURAL																		25						25													
TOTALS	SHEET No. 20				5	1				6		1	5		6		6		3	1858		60		140		975	893	560.4		6	6	4									
	LT.	1164+50 S.B.62	1165+40 S.B.62	RURAL																		90						90													
	LT.	1165+40 S.B.62	1169+90 S.B.62																			450						459													
	LT.	1169+90 S.B.62			1					1			1		1		1												92.4		1	1										
	LT.	1169+90 S.B.62	1172+35 S.B.62																			255						255													
	LT.	1172+35 S.B.62																			1										2											
	4/R	1172+35 S.B.62	1178+25 S.B.62																			125		125		270															
	LT.	1172+35 S.B.62																			1										2											
	RT.	1172+35 S.B.62	1172+45 S.B.62																			10						20													
	RT.	1172+45 S.B.62				1						1				1		1												98.4		1	1										
	RT.	1172+45 S.B.62	1175+44 S.B.62																			301						311													
	RT.	1175+44 S.B.62				1						1				1		1												98.4		1	1										
	RT.	1175+44 S.B.62	1178+64 S.B.62																			318						328													
	RT.	1178+64 S.B.62				1						1				1		1												98.4		1	1										
	RT.	1178+64 S.B.62	1178+75 S.B.62																			11						21													
	RT.	1178+75 S.B.62																			1													2							
	R/L	1178+75 S.B.62	1178+75 S.B.62																			116		116		252															
	LT.	1178+75 S.B.62																			1										2											
	RT.	1178+75 S.B.62	1180+85 S.B.62	RURAL																		210						215													
	RT.	1180+85 S.B.62	1182+75 S.B.62	E-2321.5																		190						195													
	RT.	1182+75 S.B.62																			1																					

Sheet No. 19

Sheet No. 20

Sheet No. 21

FED. ROD DIVISION	STATE	PROJECT	
2	OHIO		

330
695

FRA-270-25.39 N
FRA-42-20.83

30
30

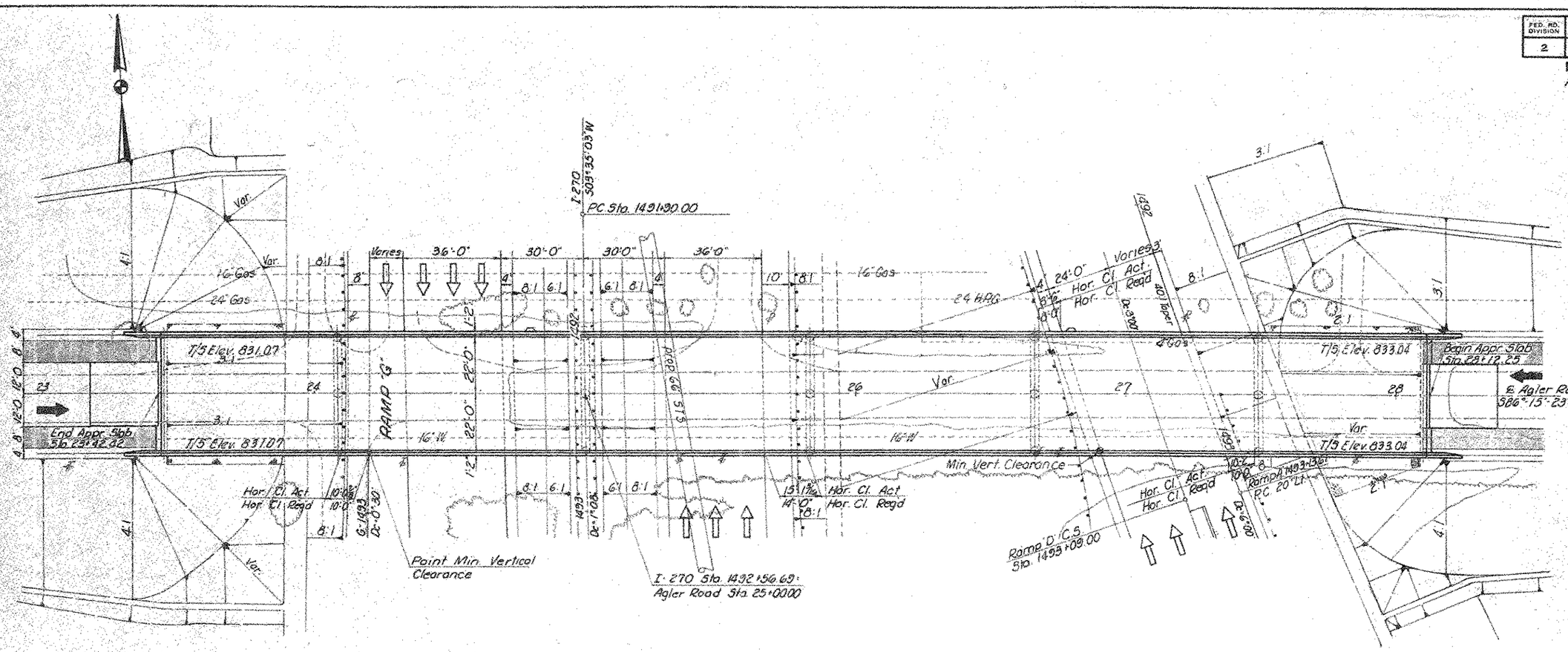
LIGHTING - SUB-SUMMARY

| REFERENCE No. | SIDE | STATION | STATION | PARTICIPATION | LIGHT POLE DESIGN 7A10832.6 | | | LIGHT POLE DESIGN HA12B342 | LIGHT POLE DESIGN HA15B342 | LIGHT POLE DESIGN HA12B417 | LIGHT POLE DESIGN HA15B417 | LIGHT POLE FOUNDATION 2.0'x 8'-0" | LIGHT POLE FOUNDATION 2.0'x 8'-0" | LUMINAIRE, TYPE II 400 WATT | LUMINAIRE, TYPE III 400 WATT | LUMINAIRE, TYPE III 700 WATT | LAMP 400 W. MERCURY VAPOR | LAMP 700 W. MERCURY VAPOR | GROUND ROD | PULL BOX 18" CIRCULAR | TRENCH 2'-0" DEEP | | 2" CONDUIT TYPE II or TYPE III | 3" CONDUIT TYPE II or TYPE III | 3" CONDUIT, LAKED UNDER PAVEMENT, ASPER PLAN | DIST CIRCUIT CABLE NO 2 | DIST CIRCUIT CABLE NO 4 | DUCT CABLE, 600 VOLT 1½" TWO NO 2 | DUCT CABLE, 600 VOLT 1½" TWO NO 4 | POLE & BRACKET CABLE NO 10 | CONNECTOR KIT TYPE I | CONNECTOR KIT TYPE II | CONNECTOR KIT TYPE III | CONNECTOR KIT TYPE III R | CONTROL CENTER I | CONTROL CENTER II | STRUCTURE GROUNDING SYSTEM | STRUCTURE JUNCTION BOX 1'-9" x 12"-9" | LIGHT POLE ANCHOR U-BOLT FOR STRUCTURE | GLARE SHIELD | LUMINAIRE, 250 WATT UNDERPASS | LAMP 250 W. MERCURY VAPOR | SERVICE TO UNDERPASS LIGHTING | | |

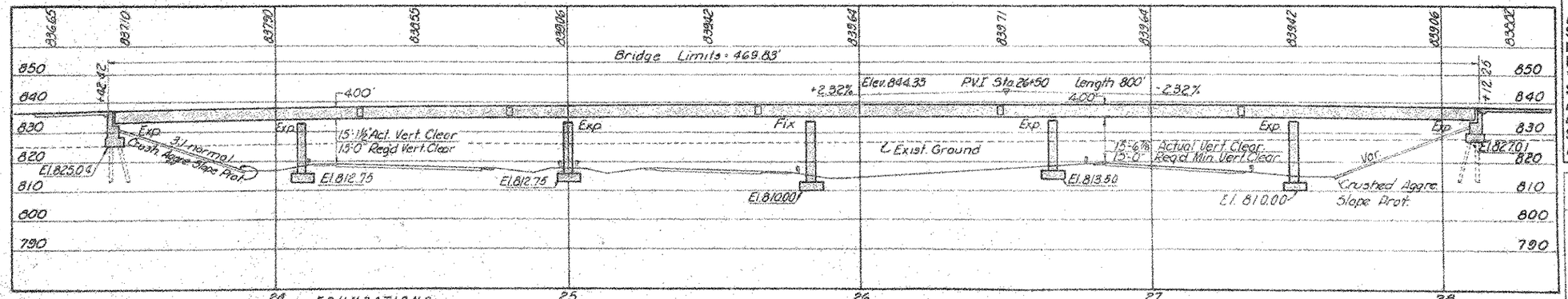
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

331/495

FRA-270-25.39N
FRA-62-20.83



EARTHWORK limits shown are schematic.
Actual slopes shall conform to plan cross-sections.



FOUNDATIONS:
(1) 12 BP 53 Piles are to be used in the Rear and Forward Abutments, Estimated average pay length 20'
(2) For Piers Max. allowable bearing pressure will be 2.5 tons per square foot

1/9

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam Bridge with Reinforced Conc. Deck & Substructures
SPANS: 64'-0", 91'-4", 83'-0", 83'-0", 83'-0", 61'-0" ℄ Brg.
ROADWAY: 44'-0" f/f Parapet
LOADING: HS 20-44
WEARING SURFACE: 1" monolithic concrete
SKEW: None
APPROACH SLAB: AS-1-67 (25'-0" long)
ALIGNMENT: Tangent
SUPERELEVATION: None
AVERAGE DAILY TRAFFIC: 6436 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

BRIDGE Nº FRA-270-2616N
under
AGLER ROAD

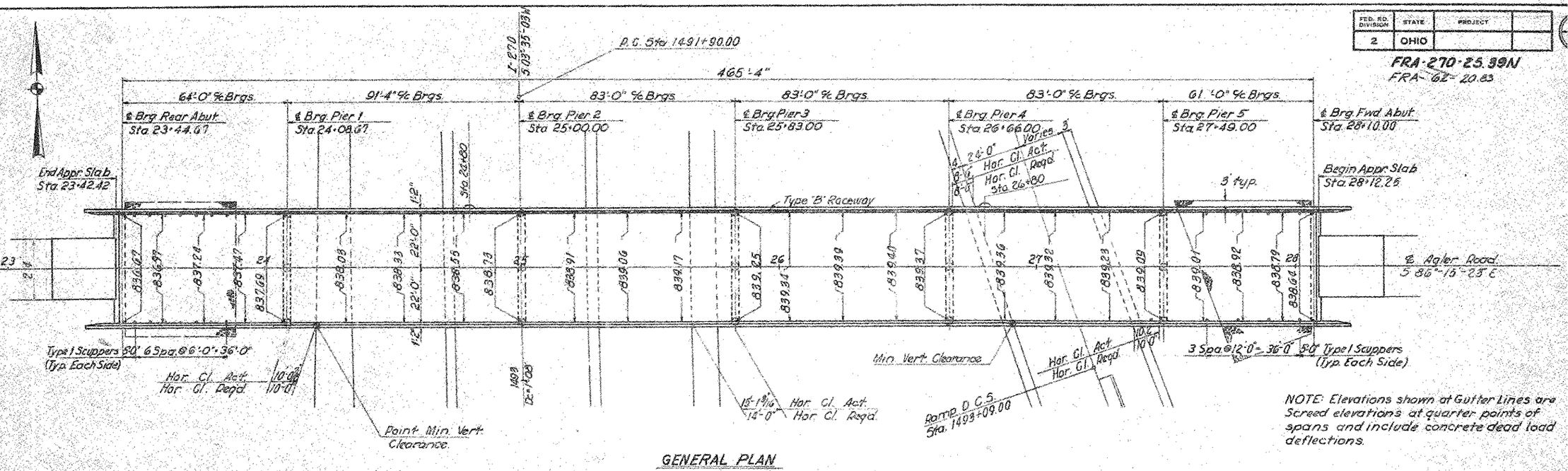
FRANKLIN COUNTY STA. 1492+56.69 IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	[illegible]			JF	4/18/69	

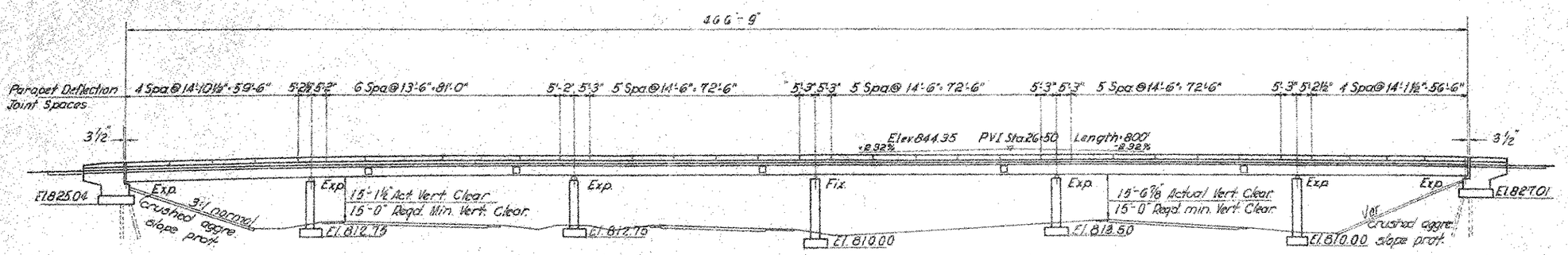
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

532
495

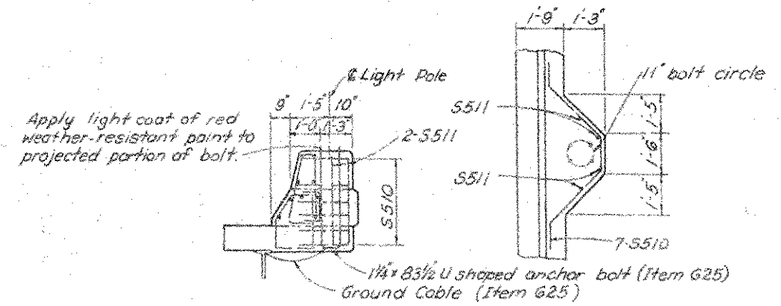
FRA-270-25.99N
FRA-62-20.83



GENERAL PLAN



ELEVATION



LIGHT POLE PILASTER

2 9

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GENERAL PLAN
BRIDGE Nº FRA-270-2616N
under
AGLER ROAD
FRANKLIN COUNTY
IR 270

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
J.B.G.	FBS	FBS	H.G.	JF	6-7-71	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-2539N
FRA-62-20.83

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT.	GEN'L
503	788	cu.yds.	Unclassified Excavation		537	251	
505	Lump	Sum	First Test Pile				Lump
507	640	Lin. Ft.	Steel "H" Piles (12 BP53)			640	
509	322,252 / 313,130	lbs.	Reinforcing Steel	212,887 / 212721	96516 / 87560	12849	
511	670	cu.yds.	Class "C" Concrete, Superstructure	670			
511	180	cu.yds.	Class "C" Concrete, Abutments			180	
511	290	cu.yds.	Class "C" Concrete, Pier Footings		290		
511	149	cu.yds.	Class "C" Concrete, Piers above Footings		149		
513	703648	lbs.	Structural Steel	703648			
514	703648	lbs.	Field Painting of Structural Steel	703648			
518	22	Each	Scuppers, including supports	22			
518	35	cu.yds.	Porous Backfill			35	
518	76	lin.ft.	6" Perforated Helical C.M.P. including special 707.01			76	
518	50	lin.ft.	6" Non-Perf. C.M.P. 707.01 (helical)			50	
601	535	sq.yds.	Crushed Aggregate Slope Protection				535
808	670	unit	Chemical Admixtures for Concrete Type A, B or D	670			
625			For 625 Lighting Items see sheet no. 302				

GENERAL NOTES

REFERENCE: shall be made to Standard Drawings AS-1-67 (Rev. 6-12-69), BR-1-67 (Dated 2-1-68) Sheet Number 1 of 3, RB-1-55 (2-2-59), SD-1-69 (Dated 6-12-69) Sheets 1, 2, 3 and 4 of 4, and Supplemental Specifications 808 (Dated 11-14-69), 836 (Dated 6-17-69), and 811 (Dated 1-1-69).

DESIGN SPECIFICATIONS
This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1969, including the Ohio "Supplement" to these Specifications.

DESIGN DATA

Design Loading	HS 20-44
Concrete Class "C"	Unit Stress 1200 psi for Superstructure Unit Stress 1333 psi for Substructure
Structural Steel	ASTM A36, Unit Stress 20,000 psi.
Reinforcing Steel	ASTM A615, A616 or A617, unit stress 20000 psi Spiral reinforcement shall be plain bars ASTM A306 or A499.

PILES shall be driven to a minimum bearing capacity of 40 tons per pile for the abutments.

FOUNDATION BEARING PRESSURE
Pier footings are designed for a maximum bearing pressure of 2.5 tons per square foot.

UTILITY LINES
All expenses involved in relocating the affected utility lines shall be borne by the Owners. The Contractor and the Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

WELDS on non-stress-carrying members are shown thus: N 1/4

EMBANKMENT CONSTRUCTION
The embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments.

For Lighting details not shown see sheet no. 309 and Standard Construction Drawing HL-4.

3/9

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

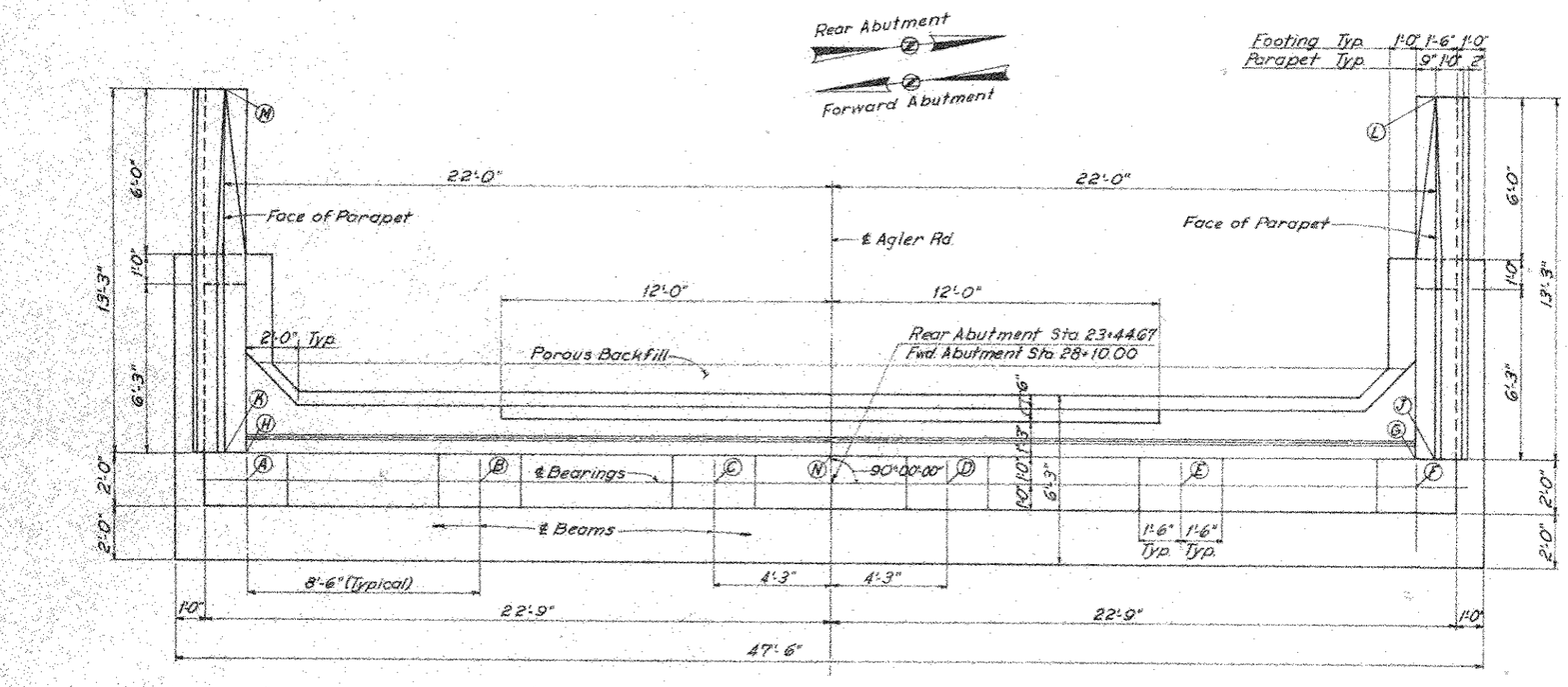
ESTIMATED QUANTITIES & GENERAL NOTES
BRIDGE No. FRA-270-2616N
under
AGLER ROAD
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.A.D.	F.O.S.	F.O.S.	M.G.	JA	8/5/70

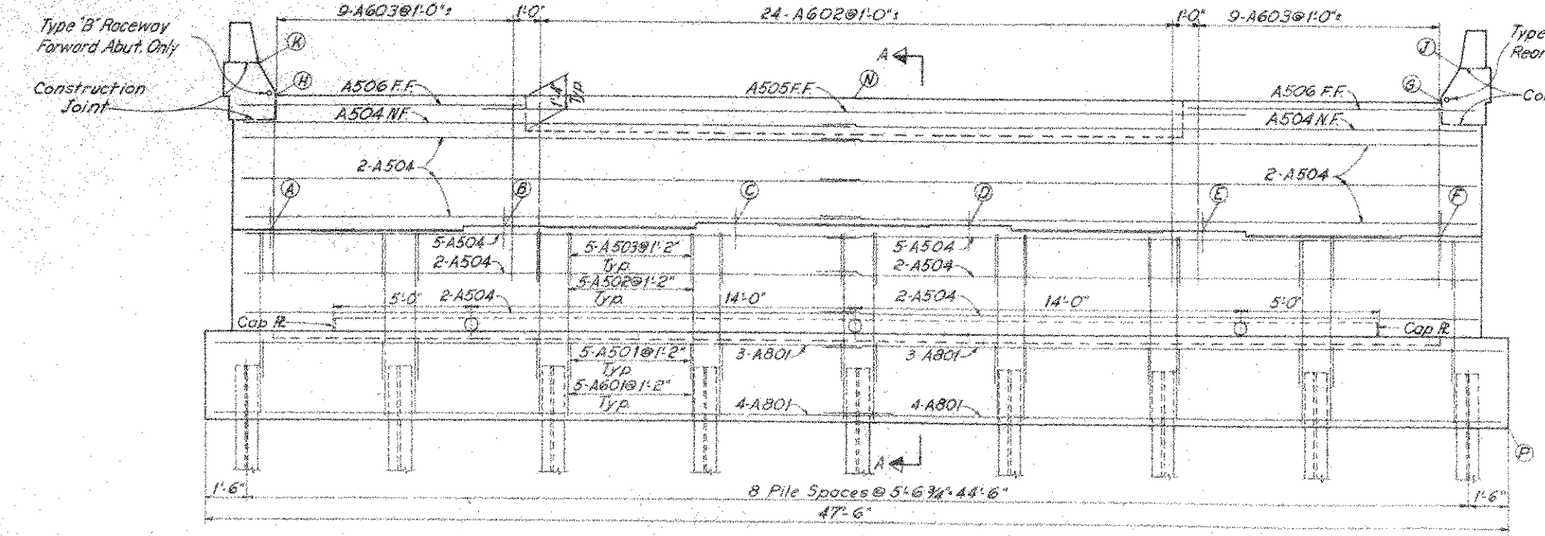
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

334
495

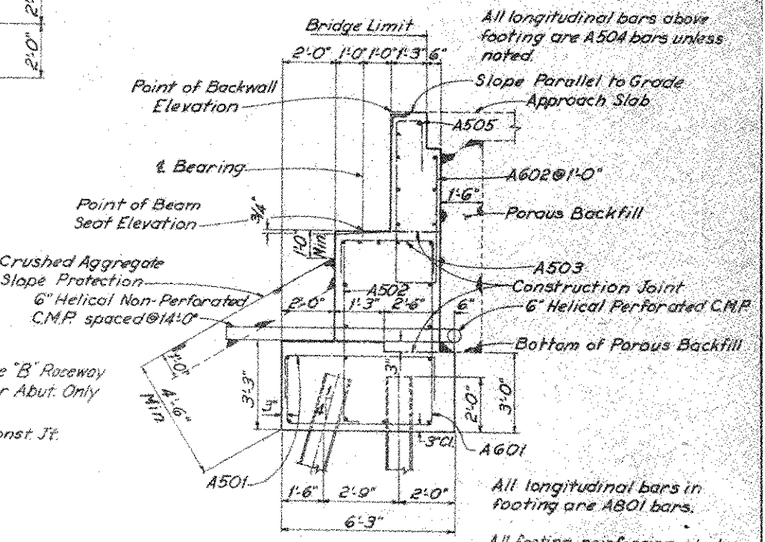
FRA-270-25.39N
FRA-62-20.83



PLAN



ELEVATION



SECTION A-A

All longitudinal bars in footing are A801 bars.

All footing reinforcing steel shall clear concrete surfaces by 3".

POROUS BACKFILL 1'-6" thick shall extend upward to the approach slab or to the subbase for the full length of the abutment. Excavation, therefore, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cubic yard for porous backfill.

LEGEND
N.F. - Near Face
F.F. - Far Face
E.F. - Each Face

4 | 9

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

ABUTMENT DETAILS
BRIDGE Nº FRA-270-26.16N
under
AGLER ROAD

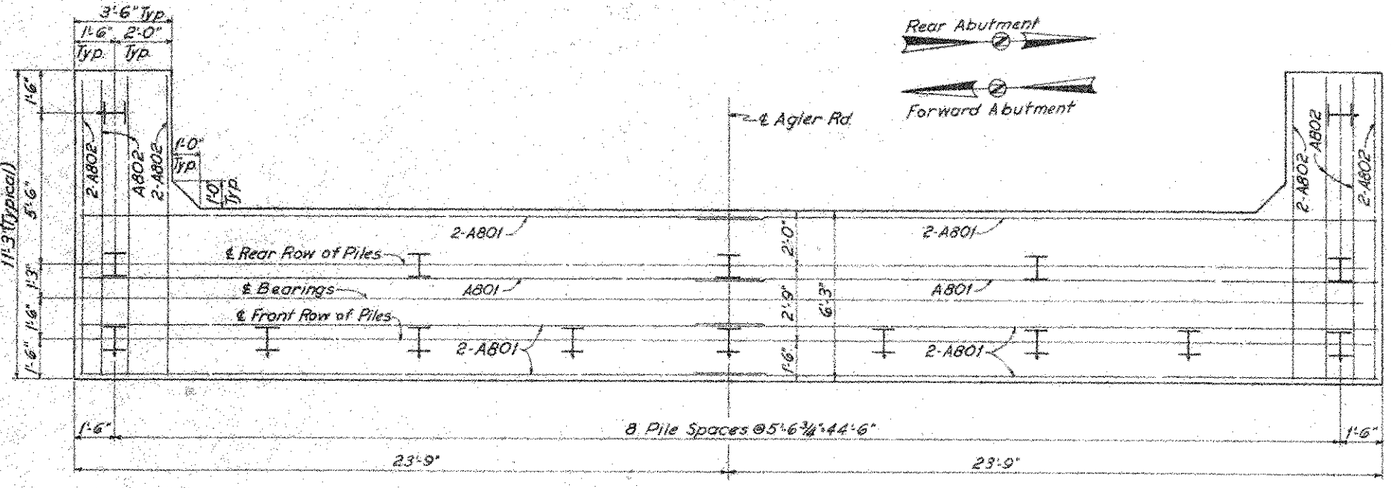
FRANKLIN COUNTY FR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.B.D.		F.O.S.	M.C.	J.J.	6/8/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

335
495

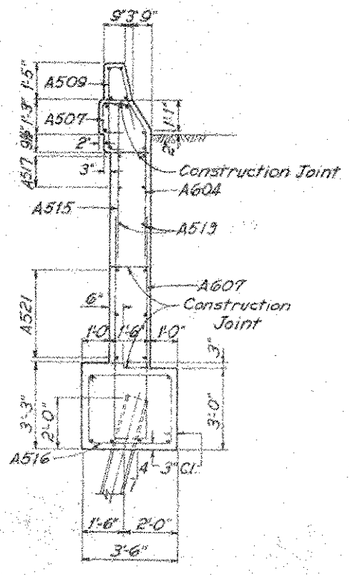
FRA-270-25.89N
FRA-62-20.83



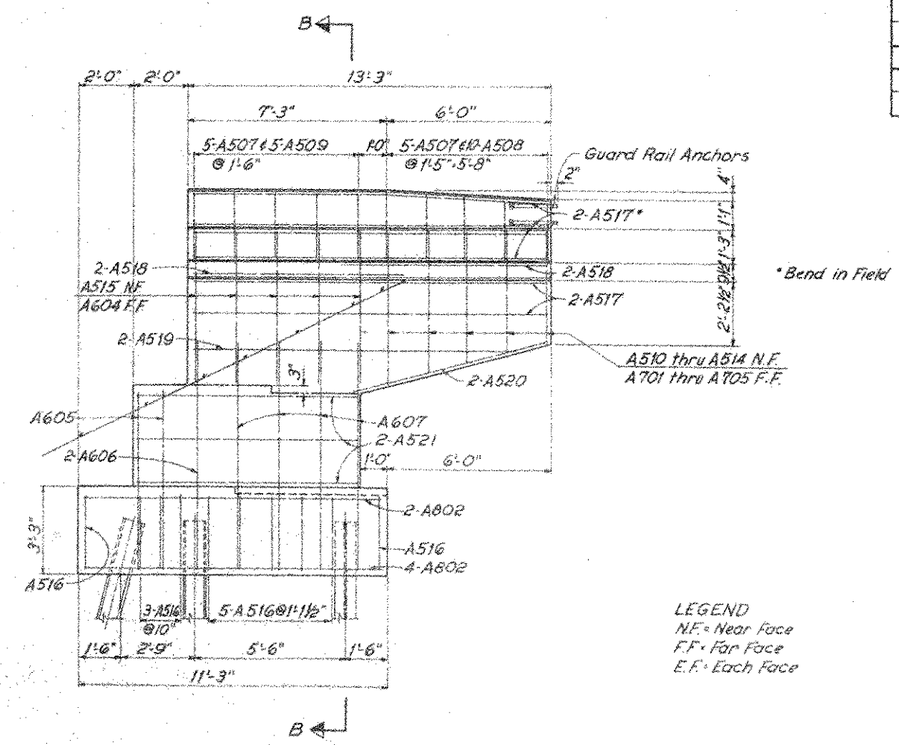
FOOTING PLAN

NOTE: All piles to be 12BP53
Front row of piles to be battered 1:4

POINT	A	B	C	D	E
Rear Abutment	832.07	832.20	832.34	832.34	832.21
Forward Abut.	834.04	834.17	834.31	834.31	834.17
POINT	F	G	H	J	K
Rear Abutment	832.07	836.66	836.66	837.91	837.91
Forward Abut.	834.04	838.63	838.63	839.88	839.88
POINT	L	M	N	P	
Rear Abutment	837.65	837.65	836.99	825.04	
Forward Abut.	839.74	839.74	838.96	827.01	



SECTION B-B



TYPICAL WINGWALL

*Bend in Field

LEGEND
N.F. = Near Face
F.F. = Far Face
E.F. = Each Face

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

ABUTMENT DETAILS
BRIDGE Nº FRA-270-2616N
under
AGLER ROAD

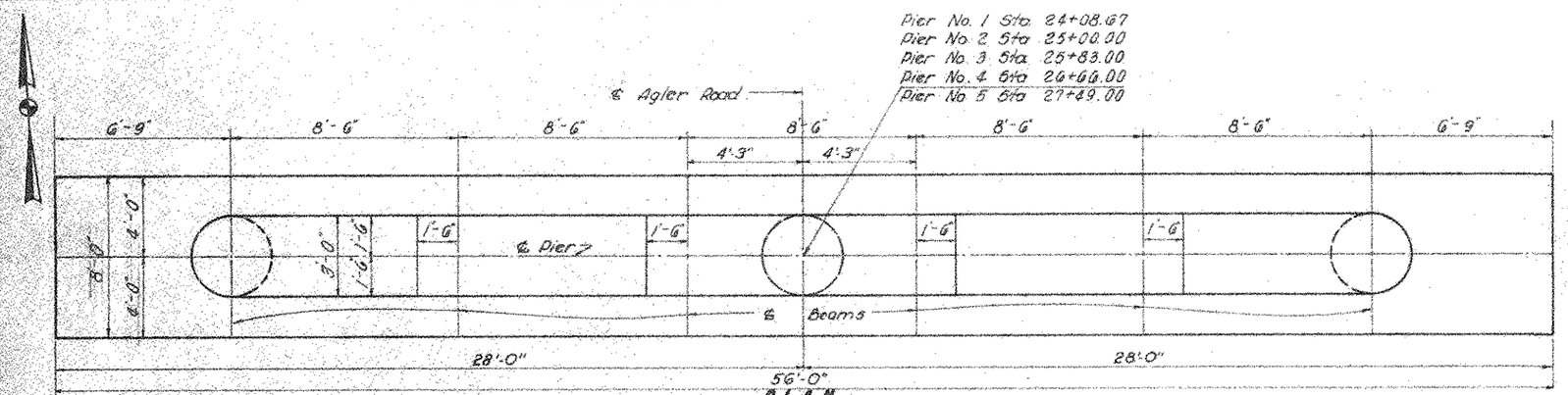
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.A.P.	E.S.	E.S.	M.G.	[illegible]	[illegible]

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

336
495

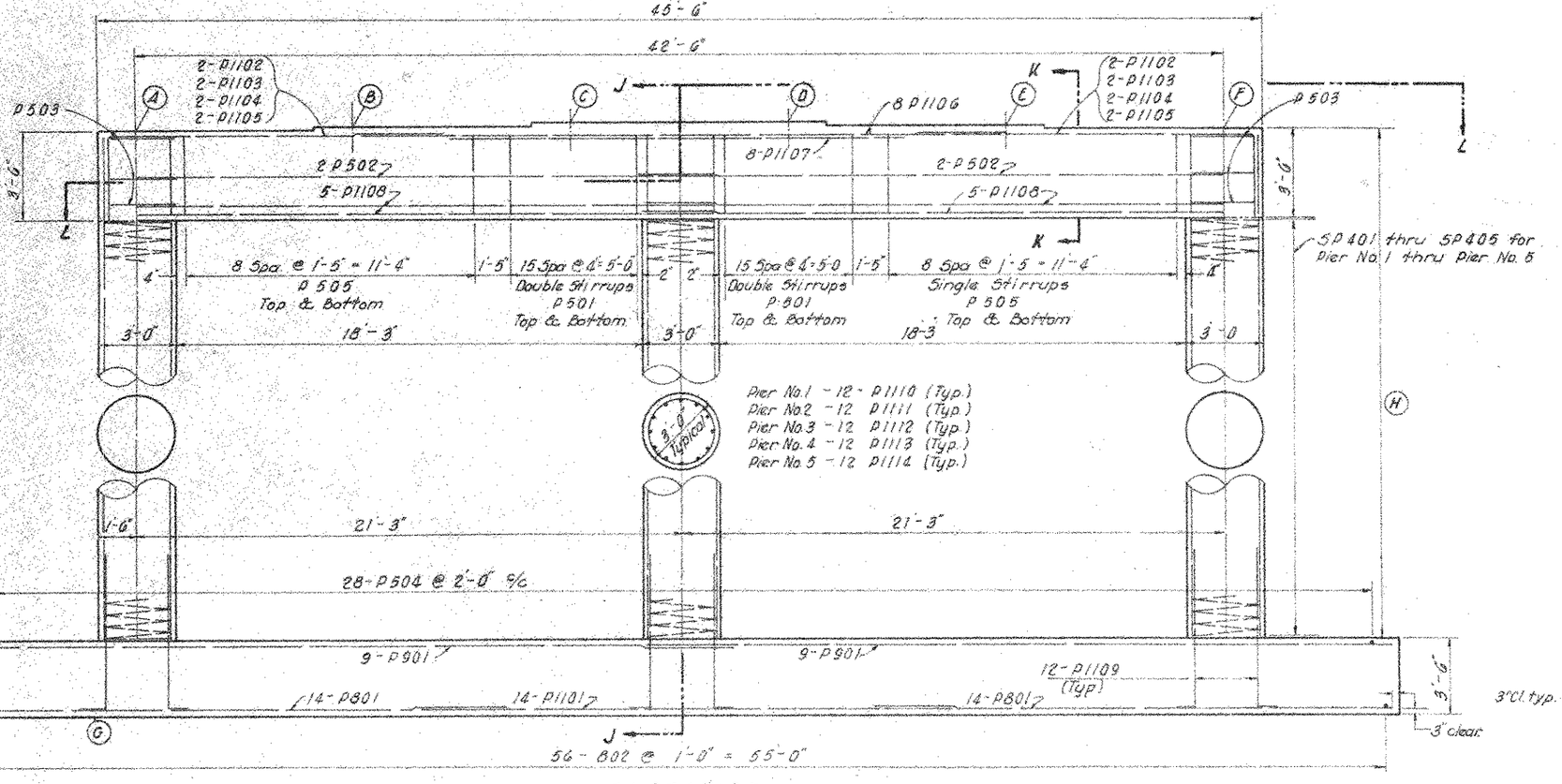
FRA - 270 - 25.39 N
FRA-62-20.83



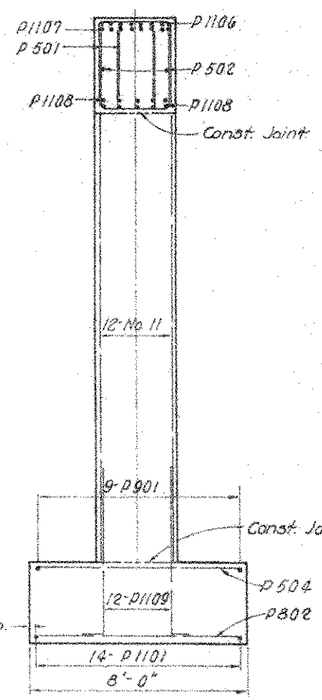
PLAN

TABLE OF ELEVATIONS								
PIER	A	B	C	D	E	F	G	H
No. 1	832.52	832.66	832.79	832.79	832.66	832.52	812.75	16'-3 1/4"
No. 2	833.57	833.70	833.84	833.84	833.70	833.57	812.75	17'-3 7/8"
No. 3	834.09	834.23	834.36	834.36	834.23	834.09	810.00	20'-7 7/8"
No. 4	834.22	834.35	834.48	834.48	834.35	834.22	813.50	17'-2 5/8"
No. 5	833.94	834.07	834.20	834.20	834.07	833.94	810.00	20'-5 1/4"

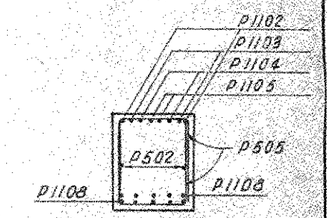
For Structure Grounding see Std. Construction Drwg. HL-4.



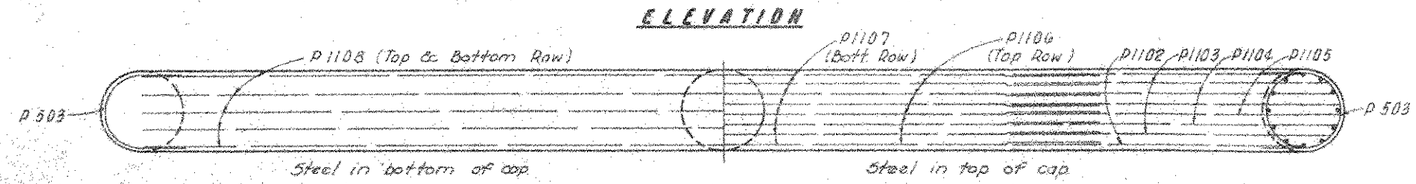
ELEVATION



SECTION J-J



SECTION K-K



VIEW L-L

NOTE: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes.

6/9

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

PIER
BRIDGE No FRA-270-2616N
under
AGLER ROAD

FANKLIN COUNTY 18-270

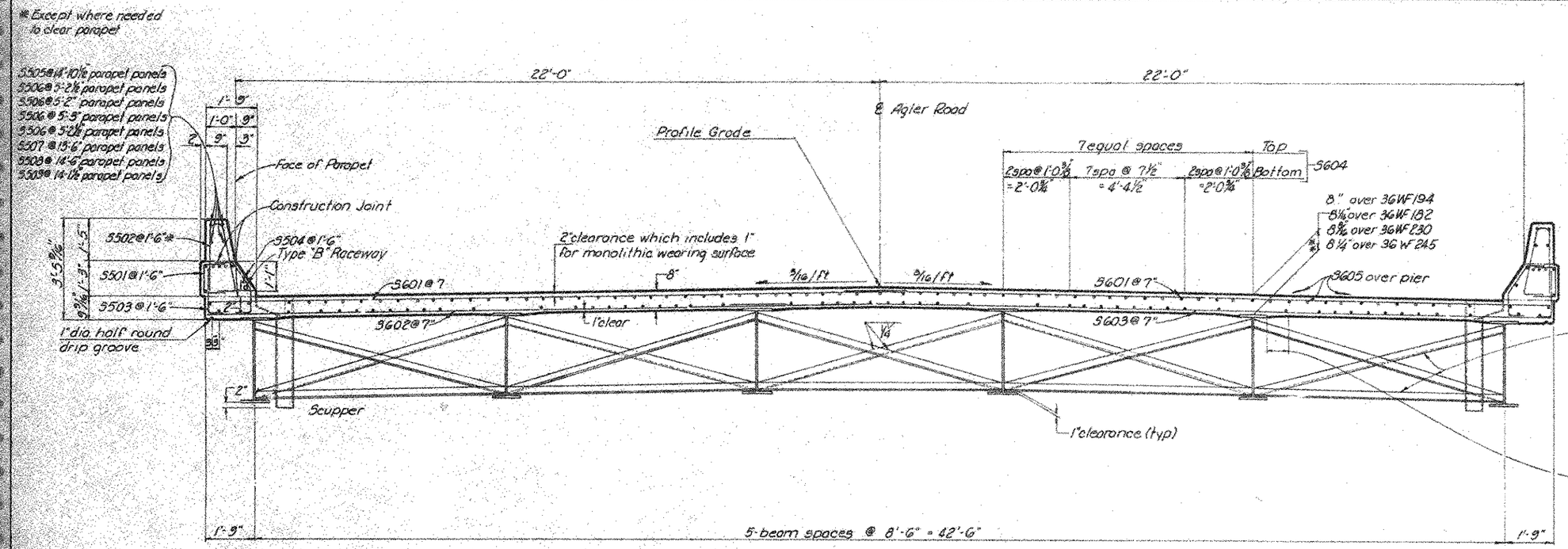
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.			DAB	[illegible]	2/15/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

337
495

FRA-270-25.39N
FRA-62-20.83

150

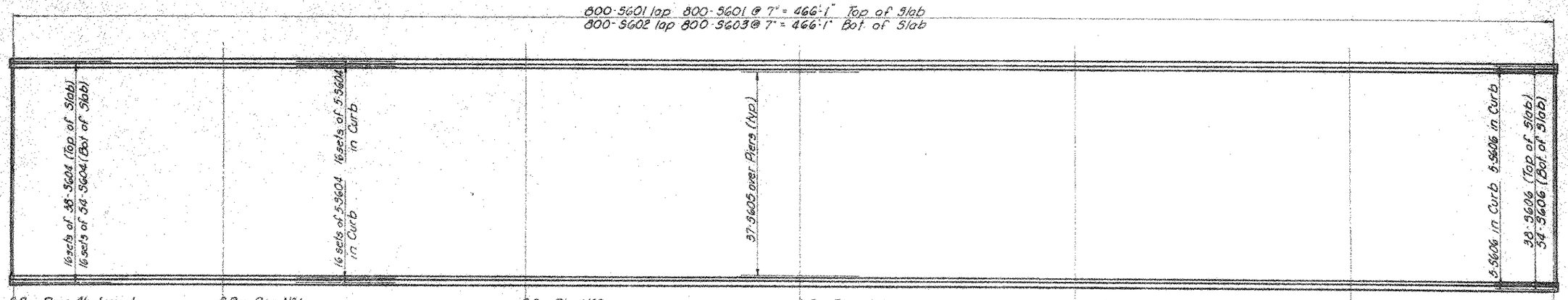


TRANSVERSE SECTION

** This is a nominal dimension. The quantity of deck concrete to be paid for shall be based this dimension even though deviation from it may be necessary because the top flange of beam may not have the exact camber or confo mation required to place it parallel to the fi ished grade. Deduction shall be made for the volume of encased steel plates as per Section 511.19 of the Construction and Material Speci fications.

Intermediate crossframe angles 3 x 3 x 5/16 Weld both sides of vertical leg and top sides of horizontal leg to beam with continous fillet weld.

A typical haunch width of 9" shall be used for computing a quantity of concrete. Howeve the haunch width may vary between 6" and 12 provided the slope shall be not more than 1:4 for a haunch less than 9" in width.



SLAB PLAN

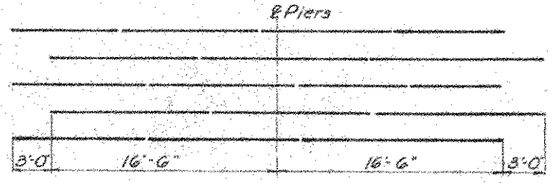


DIAGRAM SHOWING STAGGER OF S605 BARS OVER PIERS

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE Nº FRA-270-2616N
under
AGLER ROAD

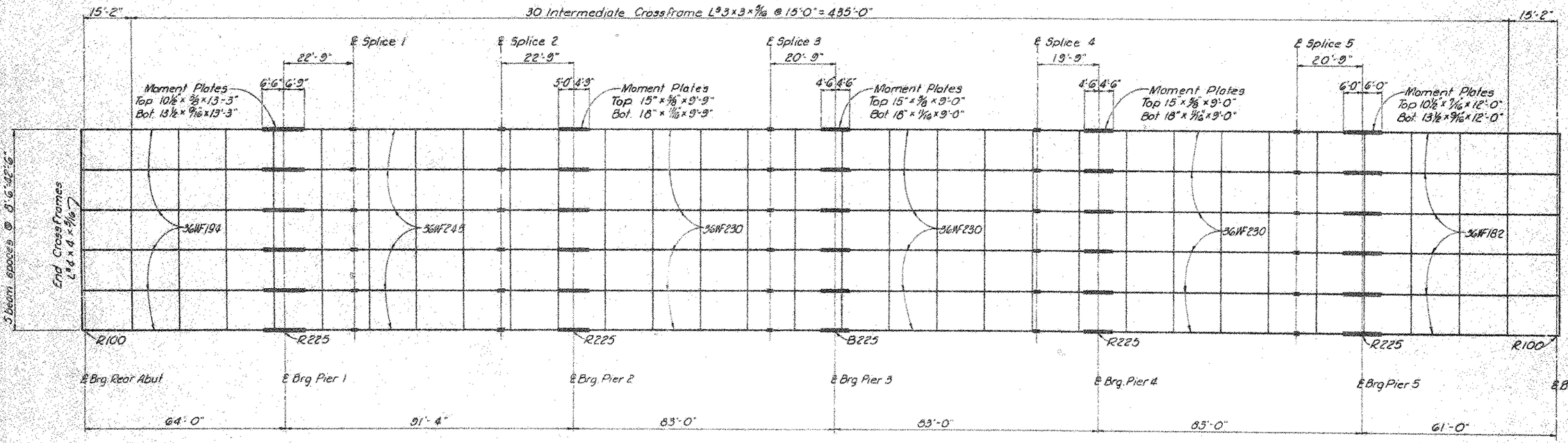
FRANKLIN COUNTY IR 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REV
VAP	[illegible]		M.G	[illegible]	[illegible]	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

338
495

FRA-270-25.39N
FRA-62-20.83



FRAMING PLAN

(1.) In addition to splice for 36WF194 shown on Standard Drawing SD-1-69 sheet 3 of 3 at splice 1 add 2-11"x 1/4 x 1'-6" fill plates outside flanges of 36WF245 and 4-4½ x 3/8 x 1'-6" fill plates inside flanges of 36WF194.

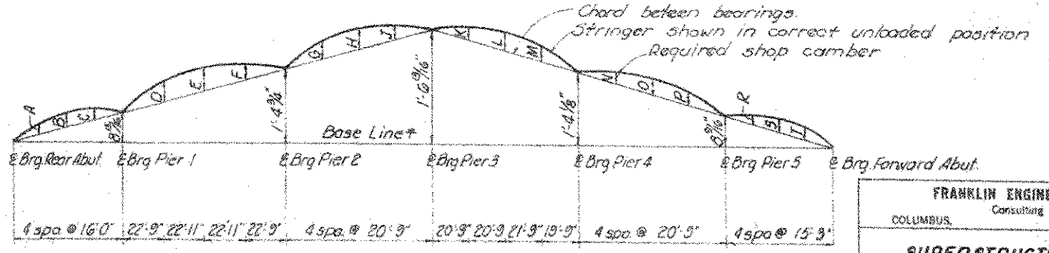
(2.) In addition to splice for 36WF182 shown on Standard Drawing SD-1-69 sheet 3 of 3 at splice 5 add 2-11" x 1/4" x 1'-6" fill plates outside flanges of 36WF230 and 4-4½" x 5/16 x 1'-6" fill plates inside flanges of 36WF182

DEFLECTION AND CAMBER TABLE FOR INTERIOR BEAM

LOCATION	SPAN 1			SPAN 2			SPAN 3			SPAN 4			SPAN 5			SPAN 6		
	¼ Pt A	½ Pt B	⅜ Pt C	Spl. Pt D	½ Pt E	Spl. Pt F	¼ Pt G	½ Pt H	Spl. Pt J	⅛ Pt K	½ Pt L	Spl. Pt M	¼ Pt N	½ Pt O	Spl. Pt P	¼ Pt R	½ Pt S	⅜ Pt T
Deflection due to weight of steel	1/16	1/16	0	3/16"	1/4	3/16"	0	1/16"	1/16	1/16	1/8	1/16	1/16	3/16"	1/8"	0	1/16	1/16
Deflection due to remaining dead load	9/16"	3/8"	1/8"	5/8"	1"	9/16"	3/16	3/8"	1/4	5/16	1/2"	5/16	5/16	5/8	3/8	3/16	3/8	5/16
Adjustment required for vertical curve	1/4	3/8	1/4	9/16"	3/4"	9/16"	1/16	5/8	1/16	1/16	5/8	1/16	1/16	5/8	1/16	1/4	5/16	1/4
Required shop camber	5/8"	1 3/16"	3/8"	1 3/8"	2"	1 5/16"	5/8	1 1/16	3/4	13/16	1 1/2"	13/16	13/16	1 7/16"	15/16"	7/16	3/4	5/8

DEFLECTION AND CAMBER TABLE FOR EXTERIOR BEAM

LOCATION	SPAN 1			SPAN 2			SPAN 3			SPAN 4			SPAN 5			SPAN 6		
	¼ Pt.	½ Pt	⅜ Pt	Spl. Pt	½ Pt	Spl. Pt	¼ Pt	½ Pt	Spl. Pt	⅛ Pt	½ Pt	Spl. Pt	¼ Pt	½ Pt	Spl. Pt	⅛ Pt	½ Pt	⅜ Pt
Deflection due to weight of steel	1/16	1/16	0	5/16"	1/4	3/16"	0	1/16"	1/16	1/16	1/8	1/16	1/16	3/16"	1/8"	0	1/16	1/16
Deflection due to remaining dead load	1/2"	1/2"	1/8	1/2	3/4"	7/16"	1/8	5/16	3/16	1/4	7/16	1/4	1/4	1/2	3/16	1/8	1/4"	1/4
Adjustment required for vertical curve	1/4	3/8	1/4	9/16"	3/4	9/16"	1/16	5/8	1/16	1/16	5/8	1/16	1/16	5/8	1/16	1/4	5/16	1/4
Required shop camber	9/16"	1 1/16"	3/8	1 1/4"	1 3/16"	1 3/16"	5/16	1"	1/16	3/4	1 3/16	3/8	3/8	1 5/16"	7/8"	5/8	5/8	9/16



* Base Line is a line from ℄ of Beam of ℄ Brg Rear Abut to ℄ of Beam of ℄ Brg Fwd Abut

LAYOUT DIAGRAM

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE N° FRA-270-26.16N
under
AGLER ROAD
FRANKLIN COUNTY
SR 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.A.P.			M.G.	M.G.	4/15/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

339
495

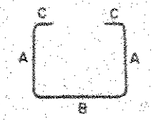
FRA-270-25.39N
FRA-62-20.83



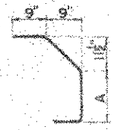
TYPE 1



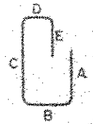
TYPE 2



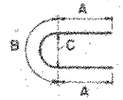
TYPE 3



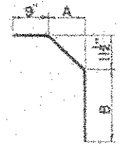
TYPE 4



TYPE 5



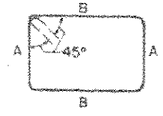
TYPE 6



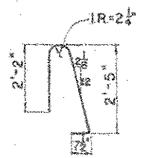
TYPE 7



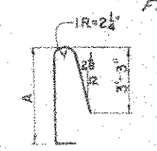
TYPE 8



TYPE 9



TYPE 10



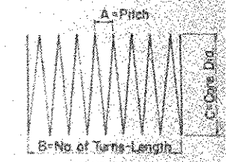
TYPE 11



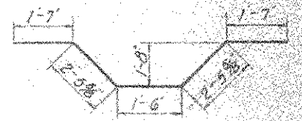
TYPE 12



TYPE 14



TYPE 13



TYPE 15

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A801	28	24'-10"	3						1656
A802	24	10'-11"	3						700
A701	4	4'-4"	3						35
A702	4	5'-1"	7	2⅛"	3'-6"				42
A703	4	5'-6"	7	4"	3'-10"				45
A704	4	5'-11"	7	6"	4'-2"				48
A705	4	6'-4"	7	9"	4'-6"				52
A601	80	14'-3"	2	6'-7"	5'-5"	2'-7"			1712
A602	48	15'-0"	3	4'-9"	1'-5"	6'-1"	11"	2'-4"	1081
A603	36	13'-3"	2	6'-1"	1'-5"	6'-1"			716
A604	20	6'-8"	7	9"	4'-10"				200
A605	8	14'-0"	2	6'-7"	1'-2"	6'-7"			168
A606	8	8'-7"	3						103
A607	16	18'-0"	2	8'-7"	1'-2"	8'-7"			433
A501	80	8'-8"	2	1'-7"	5'-5"	1'-7"			695
A502	80	7'-0"	2	6'-6"	8"	0"			584
A503	80	7'-0"	2	1'-11"	3'-3"	1'-11"			584
A504	62	23'-5"	3						1563
A505	2	27'-2"	3						57
A506	4	10'-5"	3						43
A507	40	2'-0"	2	7½	1'-0"	7½			83
A508	40	3'-0"	3						125
A509	20	6'-3"	11	3'-0"					130
A510	4	2'-10"	3						12
A511	4	3'-2"	3						13
A512	4	3'-6"	3						15
A513	4	3'-10"	3						16
A514	4	4'-2"	3						17
A515	20	4'-7"	3						96
A516	40	12'-0"	9	2'-7"	3'-2"				501
A517	48	12'-11"	3						647
A518	16	7'-3"	3						121
A519	8	12'-0"	9						100
A520	8	7'-0"	3						58
A521	24	7'-11"	3						198
							TOTAL		12849

PIERS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1101	70	21'-4"	5Hr						7934
P1102	20	15'-1"	2	3'-4"	12'-1"	0			1603
P1103	20	15'-10"	2	3'-4"	12'-10"	0			1682
P1104	20	16'-2"	2	3'-4"	13'-2"	0			1718
P1105	20	16'-4"	2	3'-4"	13'-4"	0			1736
P1106	40	26'-6"	5Hr						5419
P1107	40	18'-0"	5Hr						3825
P1108	100	23'-2"	6Hr						12308
P1109	180	8'-0"	2	1'-6"	6'-10"	0			7651
P1110	36	16'-1"	5Hr						3076
P1111	36	17'-1"	5Hr						3267
P1112	36	20'-5"	5Hr						3905
P1113	36	17'-0"	5Hr						3252
P1114	36	20'-3"	5Hr						3873
P901	90	30'-8"	5Hr						9384
P801	140	20'-2"	5Hr						7538
P802	280	7'-2"	5Hr						5607
P501	320	7'-8"	2	3'-0"	1'-11"	3'-0"			5118
	640								
P502	20	22'-1"	5Hr						401
P503	80	7'-4"	6	1'-7"	4'-2"	0"	2'-8"		229
P504	140	7'-8"	5Hr						1119
P505	80	8'-5"	2	3'-0"	2'-8"	3'-0"			1580
	160								
SP401	3	12'-3"	13	4½	39	2'-8"			734
SP402	3	13'-9"	13	4½	39	2'-8"			788
SP403	3	17'-1"	13	4½	48	2'-8"			967
SP404	3	13'-8"	13	4½	39	2'-8"			784
SP405	3	16'-11"	13	4½	48	2'-8"			958
							TOTAL		65516
									67500

SUPERSTRUCTURES

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
S601	1600	23'-10"	3						57276
S602	800	19'-7"	5						23531
S603	800	28'-1"	5						33745
S604	1632	30'-0"	5						73538
S605	185	36'-0"	5						10005
S606	102	16'-10"	5						2579
S501	622	2'-0"	2	7½	1'-0"	7½			1297
S502	622	5'-4"	10						9460
S503	622	2'-2"	2	1'-8"	7½	0			1406
S504	622	3'-3"	4	9"					2108
S505	32	14'-6"	3						484
S506	80	4'-10"	5						403
S507	48	18'-2"	5						653
S508	120	14'-2"	3						1713
S509	32	13'-9"	3						459
S510	14	9'-7"	15						140
S511	6	3'-1"	5						26
							TOTAL		212887

REPLACEMENT BARS

RE1101	4	8'-7"	5Hr			
RE901	1	7'-10"	5Hr			
RE801	1	7'-6"	5Hr			
RE701	1	7'-3"	5Hr			
RE601	11	6'-11"	5Hr			
RE501	2	5'-7"	5Hr			
RE401	1	6'-3"	14	6'-3	1'-8"	

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximately 0.80 lbs. per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example, A506 is a No. 5 size bar and P101 is a No. 11 size bar.

9 78

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE Nº FRA-270-26.16 N
under
AGLER ROAD
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	SUBMITTED	DATE	SHEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N.
FRA-62-20.83

HORIZONTAL CURVE DATA

I.R.-270
P.I. Sta. 1506+98.66
Δ = 33° 13' 56"
D = 1° 08' 00
R = 5055.51'
L = 2932.25'
T = 1508.66'
E = 220.31'

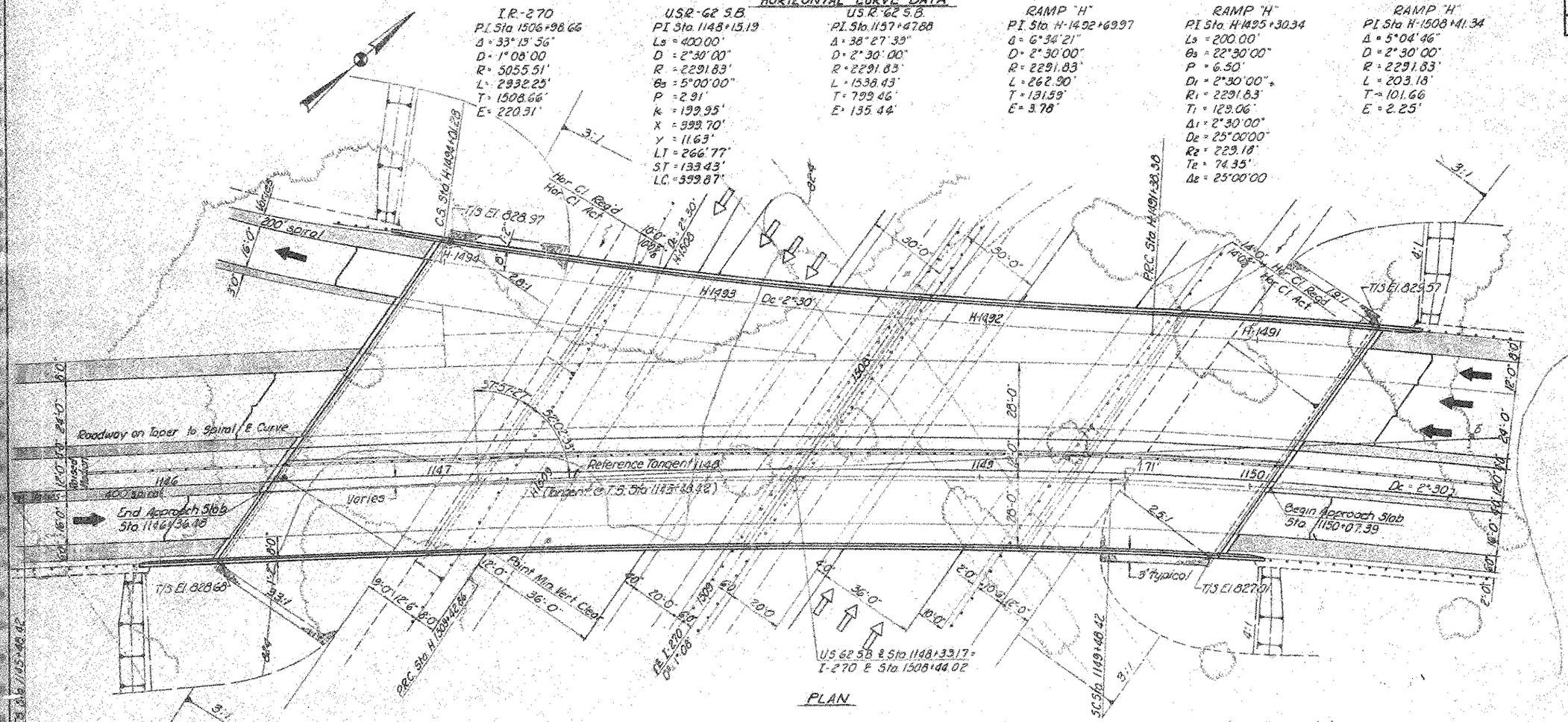
U.S.R.-62 S.B.
P.I. Sta. 1148+15.19
Ls = 400.00'
D = 2° 30' 00"
R = 2291.83'
θs = 5° 00' 00"
P = 2.91'
k = 199.95'
X = 399.70'
Y = 11.63'
LT = 266.77'
ST = 133.43'
LC = 399.87'

U.S.R.-62 S.B.
P.I. Sta. 1157+47.88
Δ = 38° 27' 33"
D = 2° 30' 00"
R = 2291.83'
L = 1538.43'
T = 799.46'
E = 135.44'

RAMP "H"
P.I. Sta. H-1492+69.97
Δ = 6° 34' 21"
D = 2° 30' 00"
R = 2291.83'
L = 262.90'
T = 131.59'
E = 3.78'

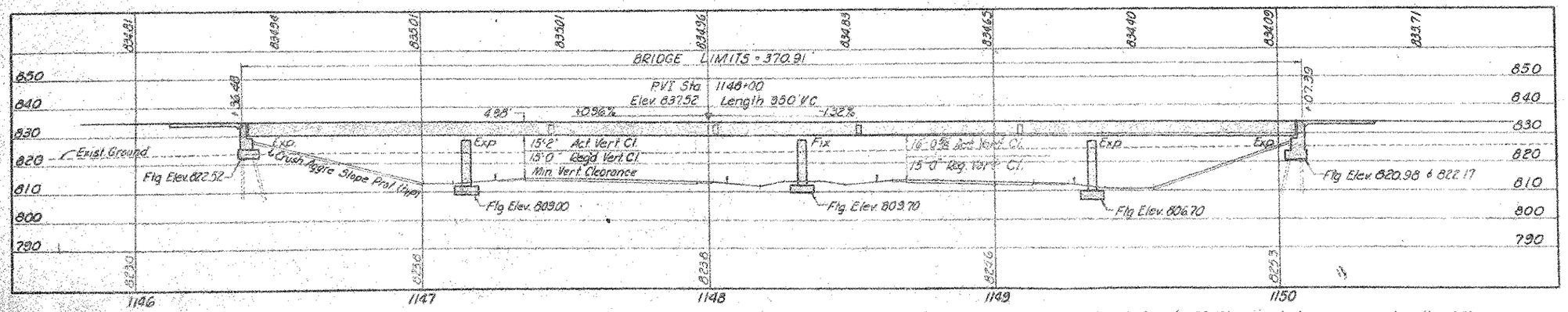
RAMP "H"
P.I. Sta. H-1495+30.34
Ls = 200.00'
θs = 22° 30' 00"
P = 6.50'
D1 = 2° 30' 00"
R1 = 2291.83'
T1 = 129.06'
Δ1 = 2° 30' 00"
D2 = 25° 00' 00"
R2 = 229.18'
T2 = 74.35'
Δ2 = 25° 00' 00

RAMP "H"
P.I. Sta. H-1508+41.34
Δ = 5° 04' 46"
D = 2° 30' 00"
R = 2291.83'
L = 203.18'
T = 101.66
E = 2.25'



PLAN

Note: Earthwork limits shown are schematic. Actual slopes shall conform to plan cross-sections.



PROFILE ALONG ℄ U.S. 62 S.B.

Abutment piles (10 BP 42) estimated average pay length = 25'

PROPOSED STRUCTURE

TYPE: Continuous Steel Girder Bridge wit
Reinforced Conc. Deck & Substructures
SPANS: 76'-4⅜", 117'-5⅛", 100'-10⅜", 70'-8⅝" along ℄ S.B. US
ROADWAY: 54'-0" curb/curb (Avg. Lt. Br.), 27'-5" curb/curb R
LOADING: HS 20-44
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 37°-57'-27" (to reference tangent)
APPROACH SLAB: AS-1-67 (25'-0" long)
ALIGNMENT: Taper to 400' spiral & 2°30' curve
SUPERELEVATION: Varies
AVERAGE DAILY TRAFFIC: 7612 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

BRIDGE № FRA-270-2645 N
under
SOUTH BOUND US 62

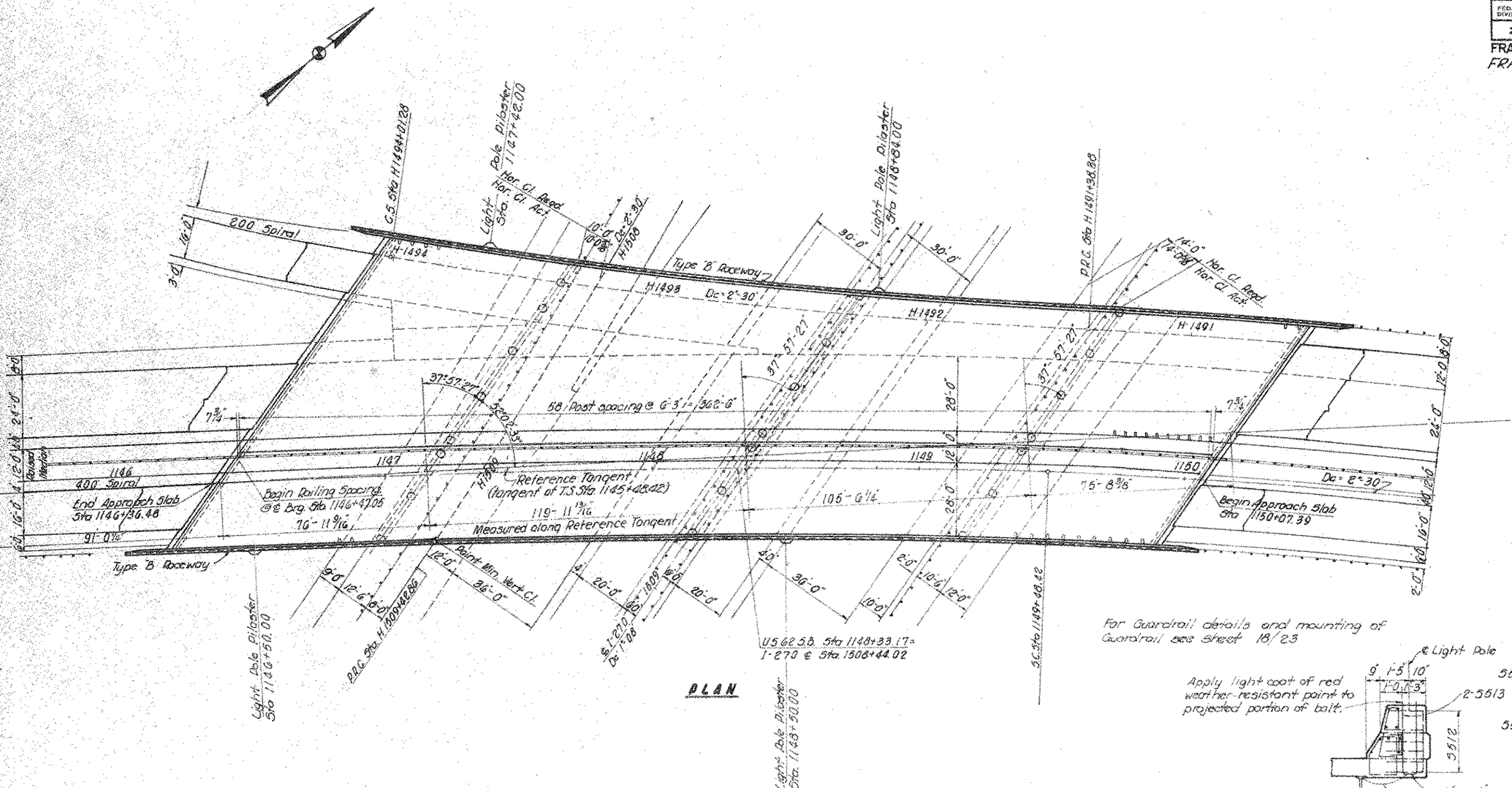
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
HM	[illegible]			[illegible]	2/18/67

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

341/495

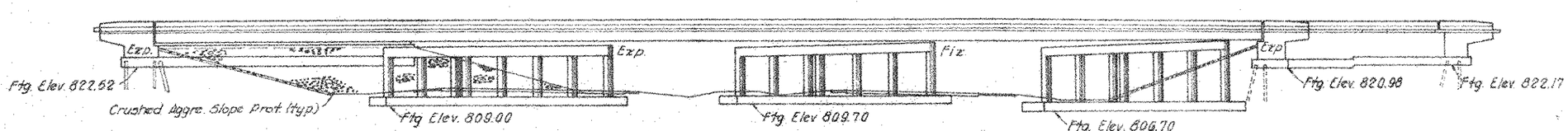
FRA-270-25.39 N.
FRA-62-20.83



PLAN

For Guardrail details and mounting of Guardrail see Sheet 18/23

LIGHT POLE PILASTER



ELEVATION

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GENERAL PLAN & ELEVATION

BRIDGE No. FRA-270-2645 N.
under
SOUTH BOUND U.S. 62
FRANKLIN COUNTY I.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	F.G.			F.F.	7/27/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

342
495

FRA-270-25.39 N.
FRA-62-20.83

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT.	GEN'L
503	1379	Cu.Yds.	Excavation, Unclassified		768	611	
505	Lump Sum	Lump Sum	First Test Pile				Lump Sum
507	1625	Lin.Ft.	Steel Piles, 10 BP42			1625	
509	580,272 / 575,839	Lbs.	Reinforcing Steel	345,087 / 339,891	204,211	30974 / 31,737	
511	467	Cu.Yds.	Class "C" Concrete (Abutments)			467	
511	236	Cu.Yds.	Class "C" Concrete (Piers above footings)		236		
511	420	Cu.Yds.	Class "C" Concrete (Pier footings)		420		
511	1032	Cu.Yds.	Class "C" Concrete (Superstructure)	1032			
512	27-(18)	Lin.Ft.	Premolded Sealing Strip			27-(18)	
513	1,361,700	Lbs.	Structural Steel	1,361,700			
514	1,361,700	Lbs.	Field Painting of Structural Steel	1,361,700			
517	369.50	Lin.Ft.	Barrier Guardrail (double-faced, deep beam rails with steel posts & bolts)	369.50			
518	153	Cu.Yds.	Porous Backfill			153	
518	234	Lin.Ft.	6" Perforated Helical Corrugated Metal Pipe, 707.01			234	
518	121	Lin.Ft.	6" Non-perforated Helical Corrugated Metal Pipe, 707.01 (including specials)			121	
518	26	Each	Scuppers including Supports	26			
601	1588	Sq.Yds.	Crushed Aggregate Slope Protection				1588
625			See Sheet 302 for lighting Summary				
808	1032	Units	Chemical Admixture for Concrete, Type A, B, or D	1032			

GENERAL NOTES

REFERENCE: shall be made to Standard Drawings AS-1-67 (Rev. 6-12-69), RB-1-55 (2-2-59), SD 1-69 (dated 6-12-69) Sheets 1, 2, 3 and 4 of 4 and Supplemental Specifications 808 (dated 11-14-69) and 811 (Dated 1-1-69) and 836 (Dated 6-17-69)

DESIGN SPECIFICATIONS

This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1969, including the Ohio Supplement" to these Specifications.

DESIGN DATA

Design Loading	HS 20-44
Concrete Class "C"	Unit Stress 1200 p.s.i. for Superstructure Unit Stress 1333 p.s.i. for Substructure
Structural Steel	ASTM A36, Unit Stress 20,000 p.s.i.
Reinforcing Steel	ASTM A615, A616 or A617, Unit Stress 20,000 p.s.i. Spiral Reinforcemen shall be plain bars ASTM A306 or A499.

EMBANKMENT CONSTRUCTION

The embankment shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of abutments. Excavation shall then be made for the abutments.

PILES shall be driven to a minimum bearing capacity of 35 tons per pile for the abutments.

FOUNDATION BEARING PRESSURE

Pier footing are designed for a maximum bearing pressure of 2.6 tons per square foot.

UTILITY LINES

All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and the Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

For lighting details not shown, see sheets No 309 and Standard Construction Drawings HL-4

3/23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

ESTIMATED QUANTITIES & GENERAL NOTES

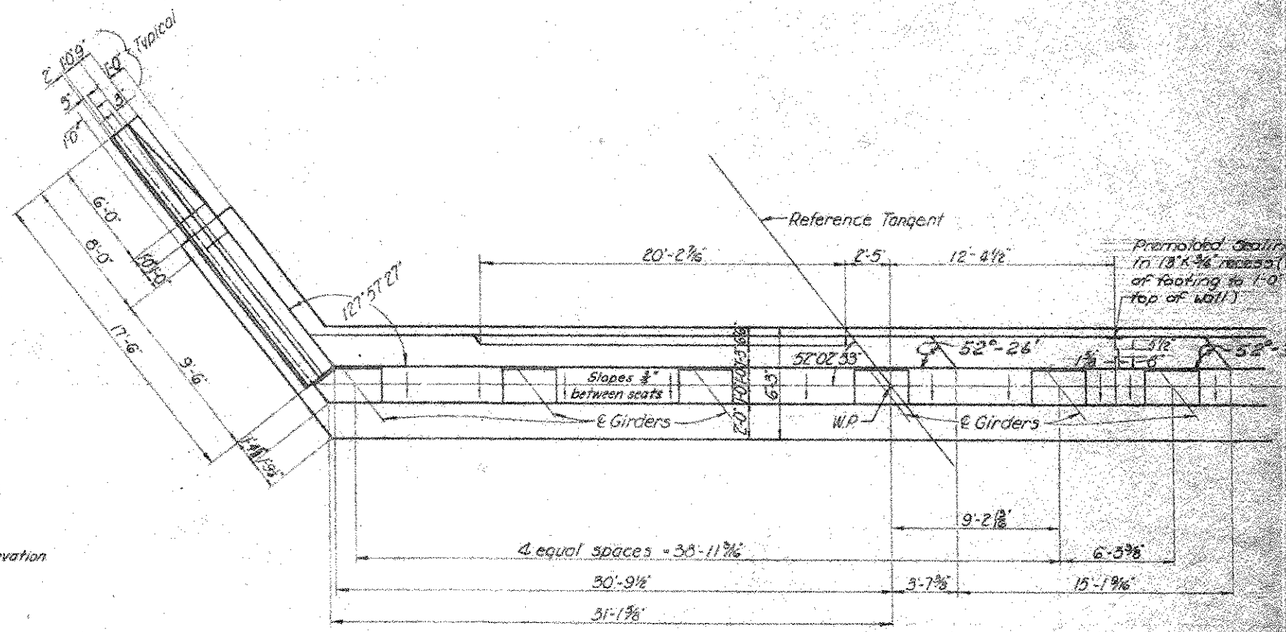
BRIDGE No. FRA-270-2645 N.
under Southbound USR-62

FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
[illegible] 7/20/70	DF		[illegible]	[illegible] 7/27/70	1-8-71

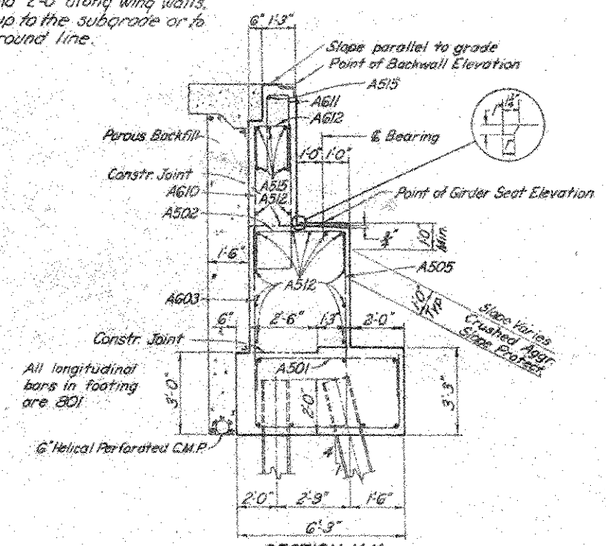
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N.
FRA-62-20.33

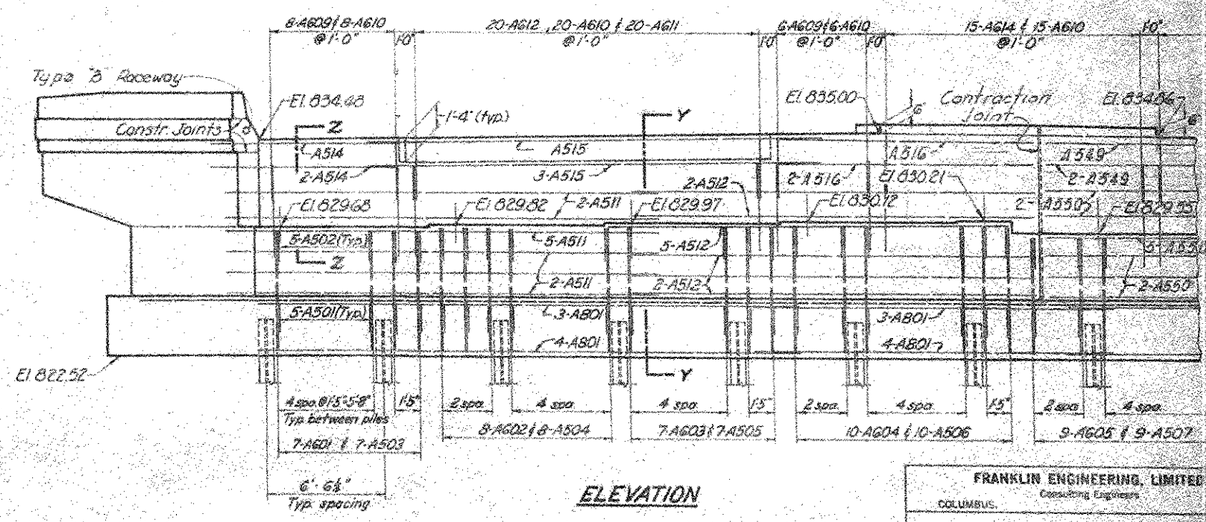


PARTIAL PLAN

Note: Porous Backfill, 1'-6" full length of abutment and 2'-0" along wing walls, shall extend up to the subgrade or to the finished ground line.

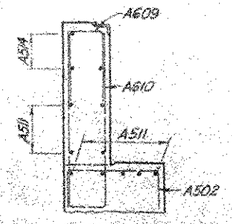


SECTION Y-Y



ELEVATION

NOTE:
All reinforcing steel in footing shall clear all concrete surfaces by 3"



SECTION Z-Z

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR ABUTMENT I

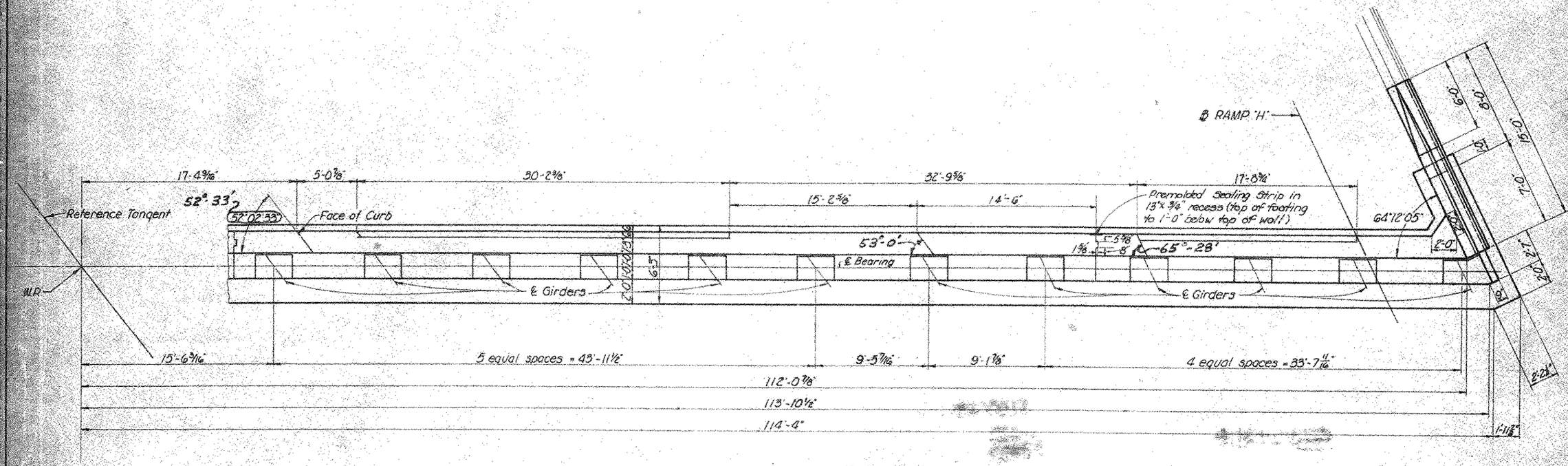
BRIDGE No. FRA-270-2645 N.
under Southbound USR-62

FRANKLIN COUNTY

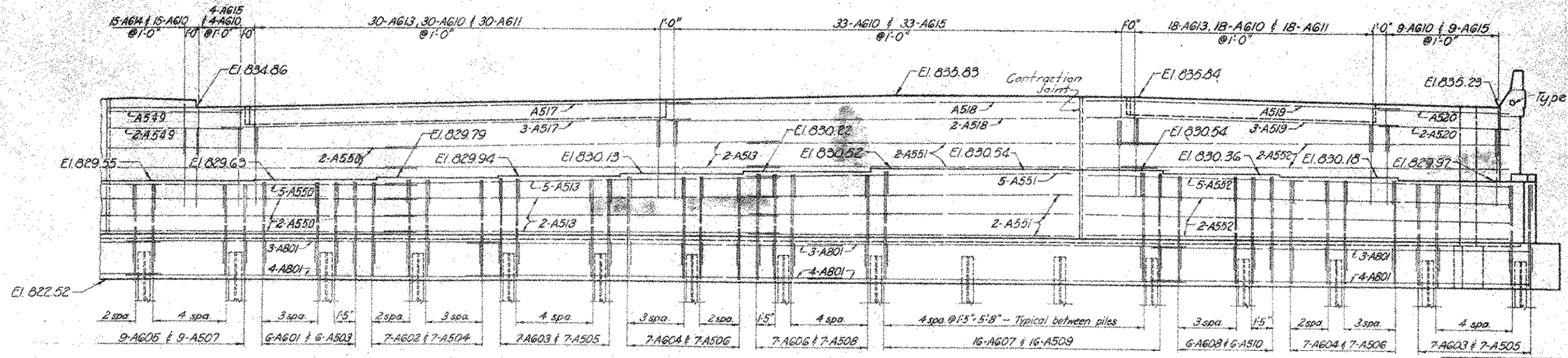
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G.	N.L.A. D.M.F.		F.A.		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-62-20.83



PARTIAL PLAN



ELEVATION

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR ABUTMENT 2

BRIDGE No FRA-270-2645N
under Southbound USR-62

FRANKLIN COUNTY 1R-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G.	NLA DMH				

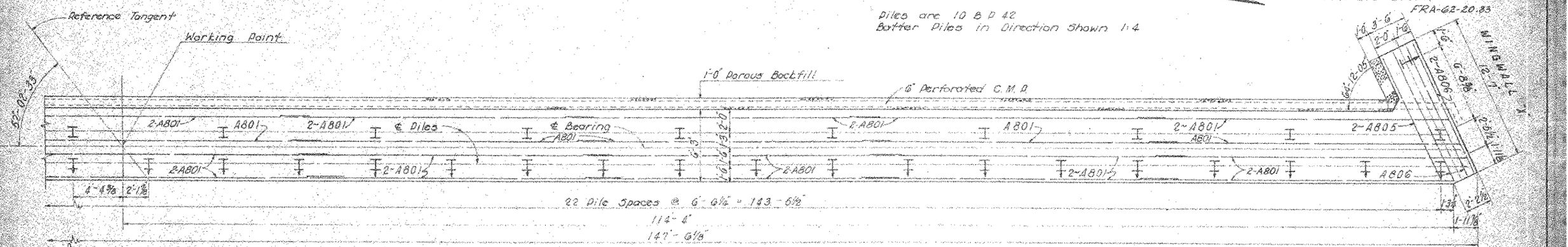
FED. ROD. DIVISION	STATE	PROJECT	
2	OHIO		

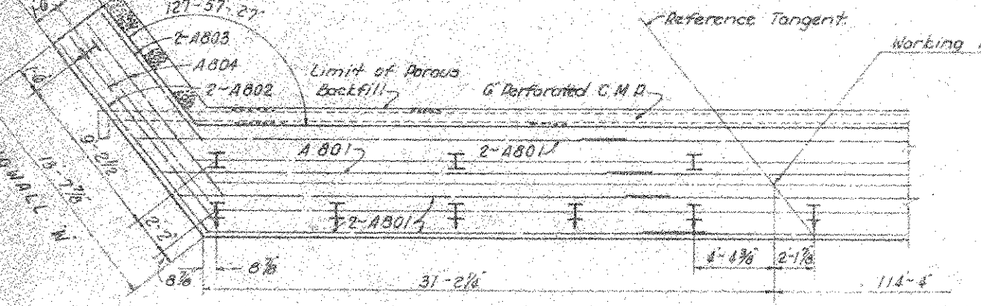
FRA-270-2539 N

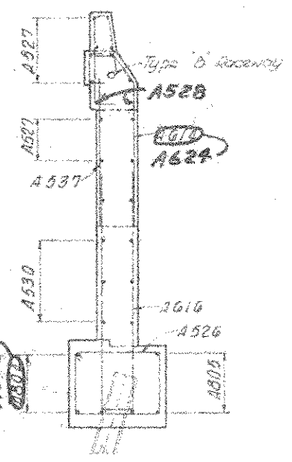
342
495

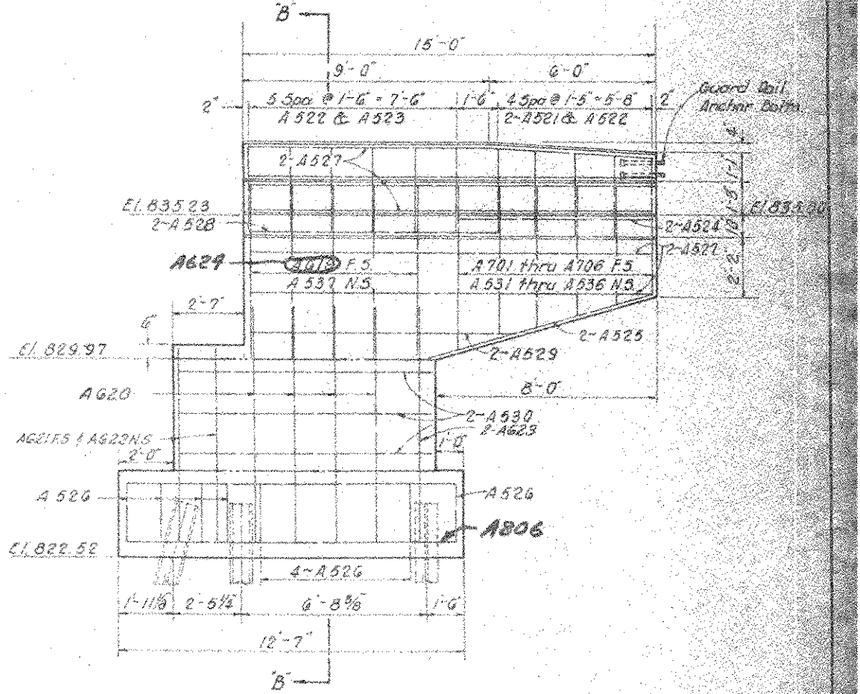
FRA-62-20.83

Piles are 10 B D 42
Batter Piles in Direction Shown 1:4

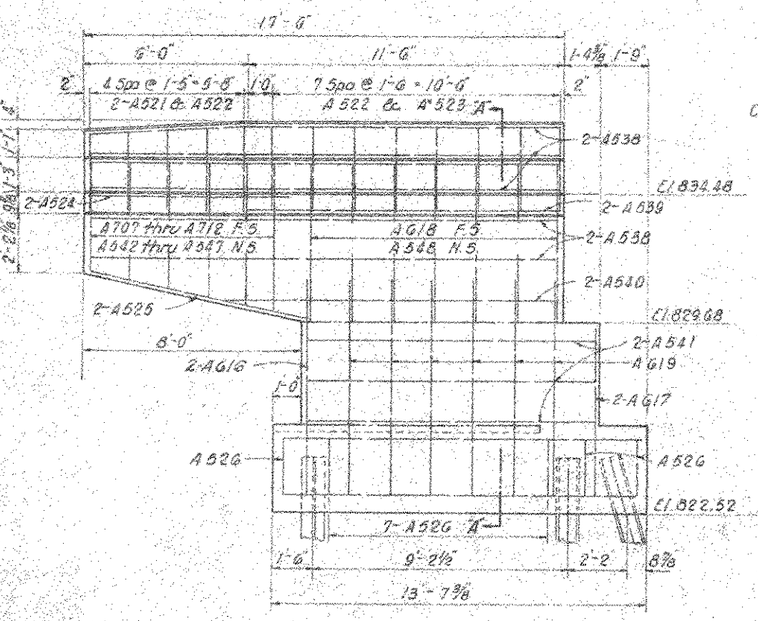






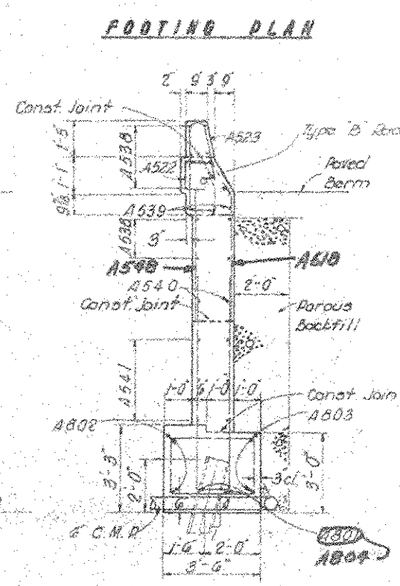


WINGWALL "X"



WINGWALL "W"

FOOTING PLAN



SECTION A-A

SECTION B-B



TERMINATION OF 6" C.M.P.

6 / 13

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR ABUTMENT FOOTING PLAN & DETAILS

BRIDGE № FRA-270-2645N
under Southbound USR-62

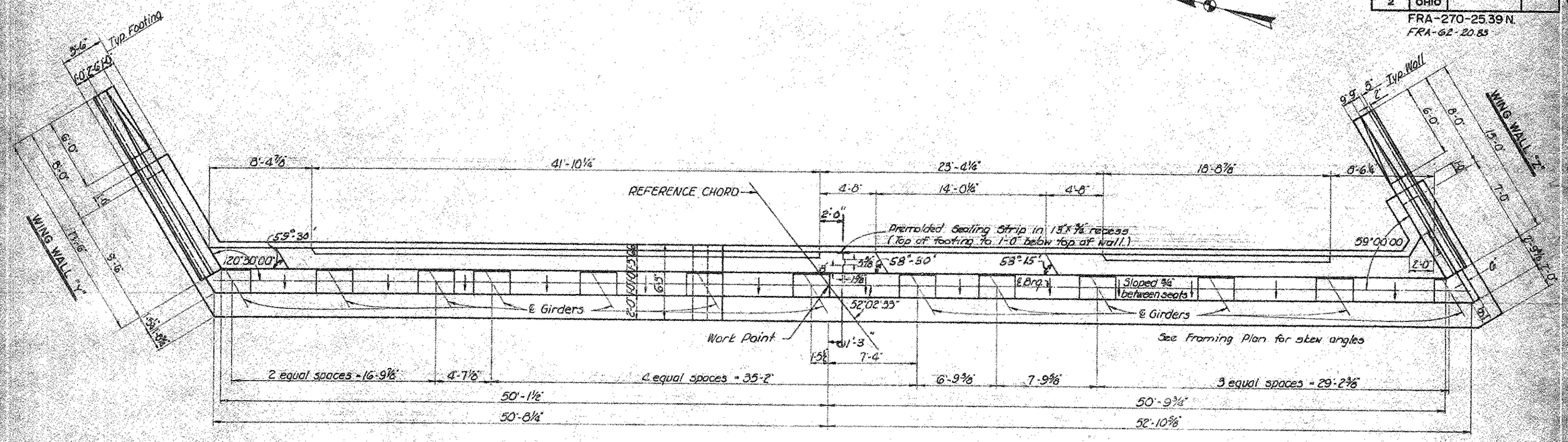
FRANKLIN COUNTY — FR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	PROJECT
M-G	F.G.		J.P.M.			

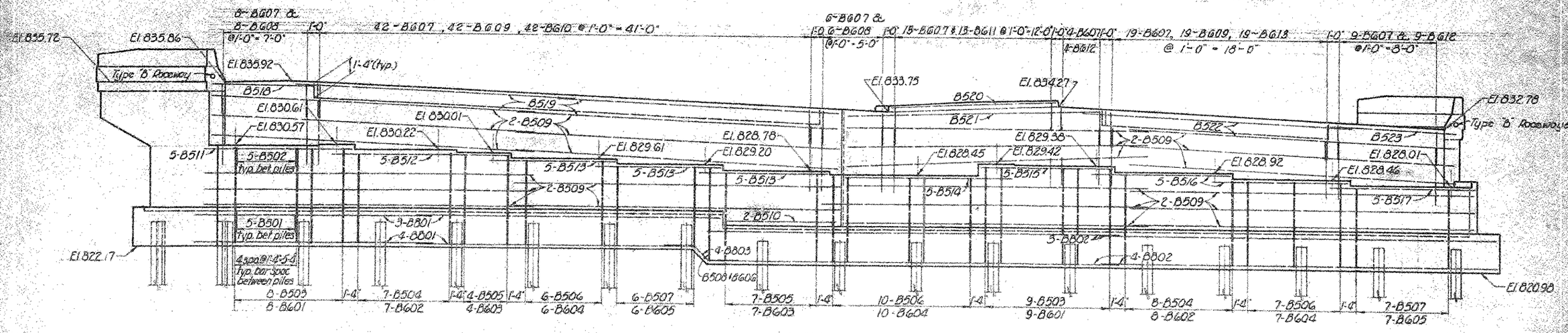
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N.
FRA-62-20.83

346
195



PLAN



ELEVATION

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FORWARD ABUTMENT

BRIDGE NO. FRA-270-2645N
under Southbound USR-62

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G.			J.L.A.		

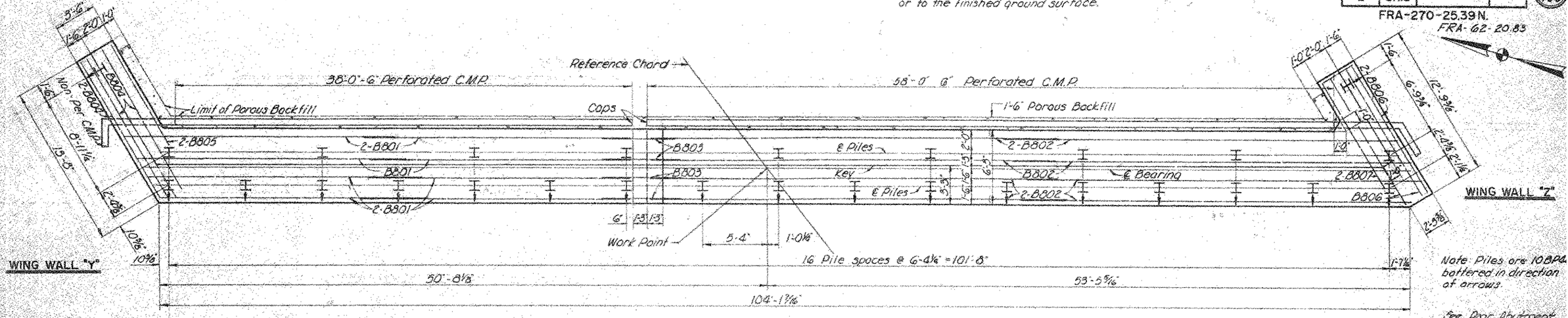
18-270

Note: Porous Backfill, 1'-6" full length of abutment and 2'-0" along wing walls, shall extend up to the subgrade or to the finished ground surface.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

947
495

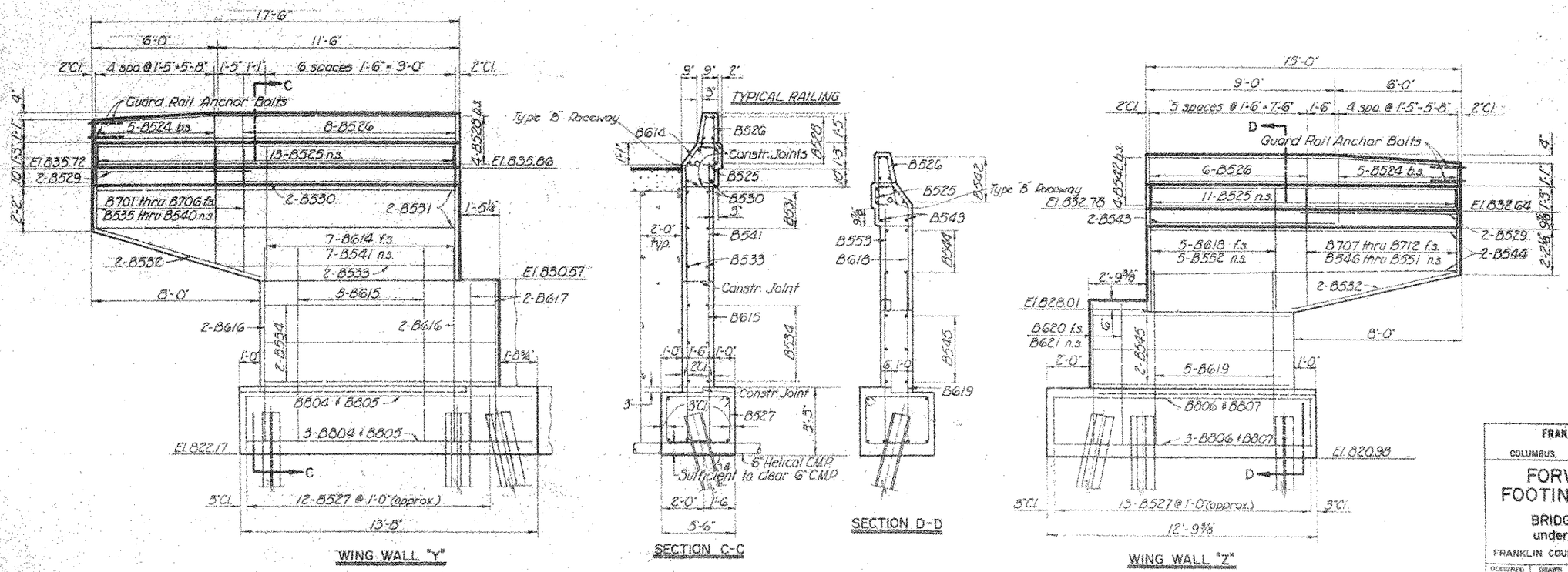
FRA-270-25.39 N.
FRA-62-20.83



Note: Piles are 10BP42 battered in direction of arrows.

See Rear Abutment for termination of 6" C.M.P.

FOOTING PLAN - FORWARD ABUTMENT



FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FORWARD ABUTMENT
FOOTING PLAN & DETAILS

BRIDGE No FRA-270-2645N,
under Southbound USR-62

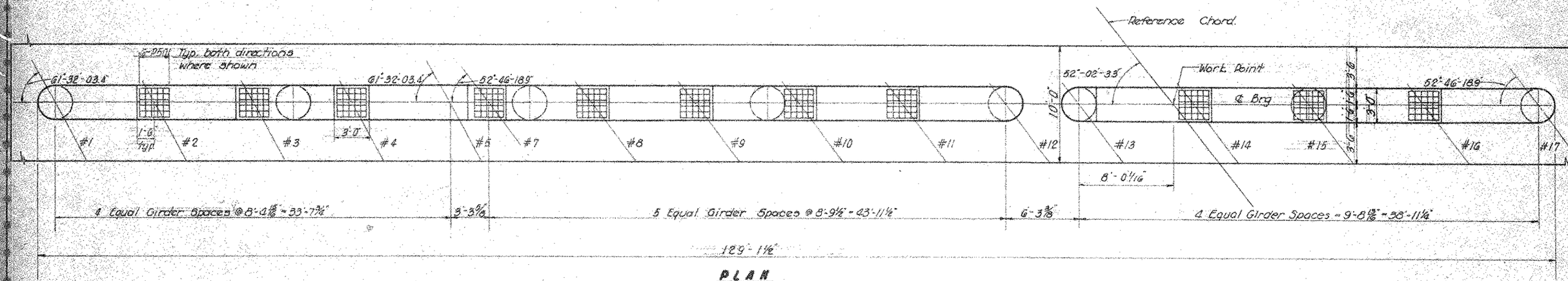
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.	[illegible]		NLA	[illegible]	7/23/70	

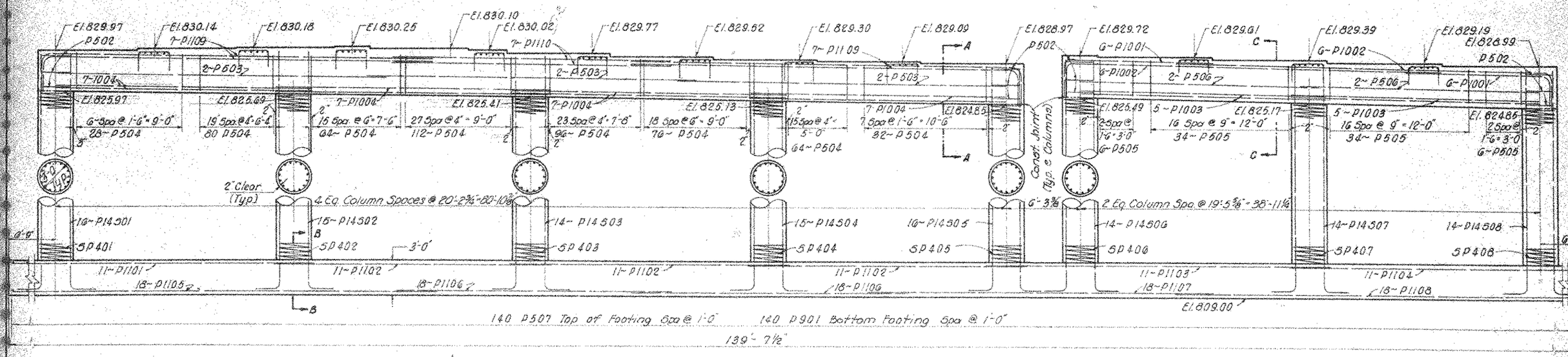
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

348
495

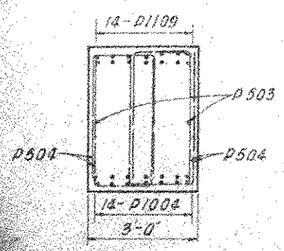
FRA-270-25.39 N.
FRA-62-20.83



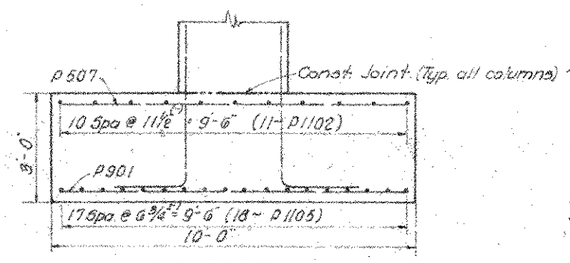
PLAN



ELEVATION



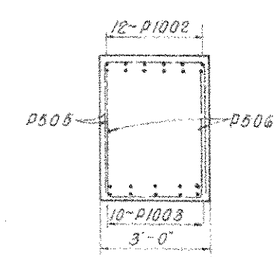
SECTION A-A



SECTION B-B

NOTE:
For Structure Grounding see Standard Construction Drawings H L-4.

Reinforcing Steel Clearances from concrete surfaces are 3" in the footings and 2" in the areas above footings, (unless otherwise noted)



SECTION C-C

9 | 23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR PIER

BRIDGE No. FRA-270-2645 N.
under Southbound USR-62

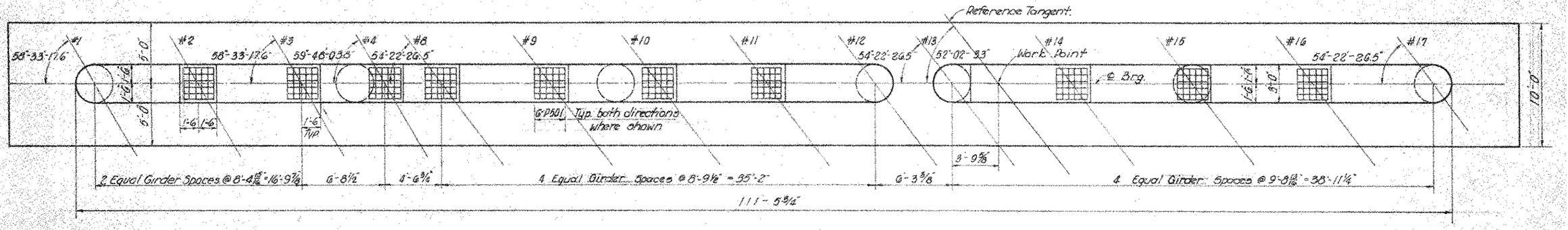
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.	FG			[illegible]	[illegible]	

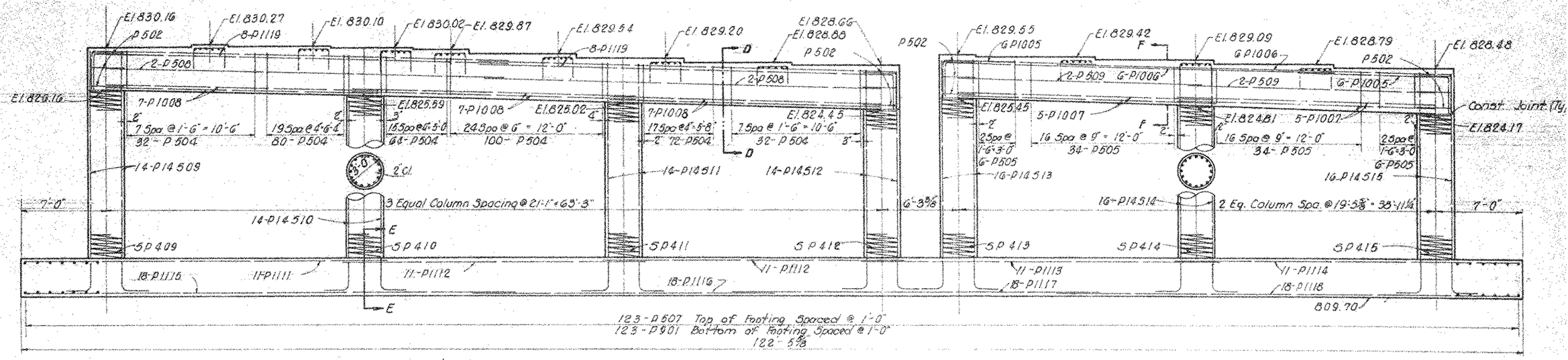
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N.
FRA-62-20.83

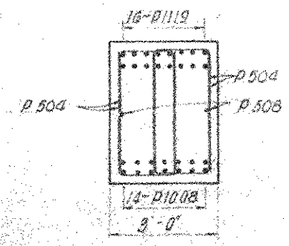
NOTE
Bridge Seat Reinforcing: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar (bolt) holes.
Minimum Reinforcing Steel Clearances from concrete surface are 3" in footings and 2" in areas above footings (unless otherwise noted).



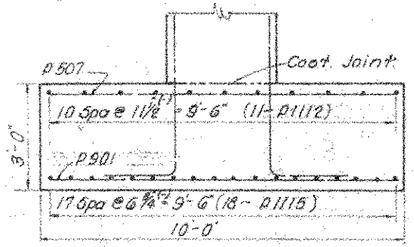
PLAN



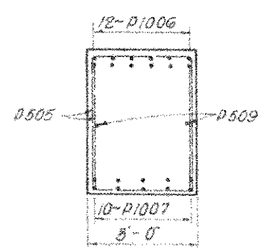
ELEVATION



SECTION D-D



SECTION E-E



SECTION F-F

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

CENTER PIER

BRIDGE No. FRA-270-2645 N.
under Southbound USR-62

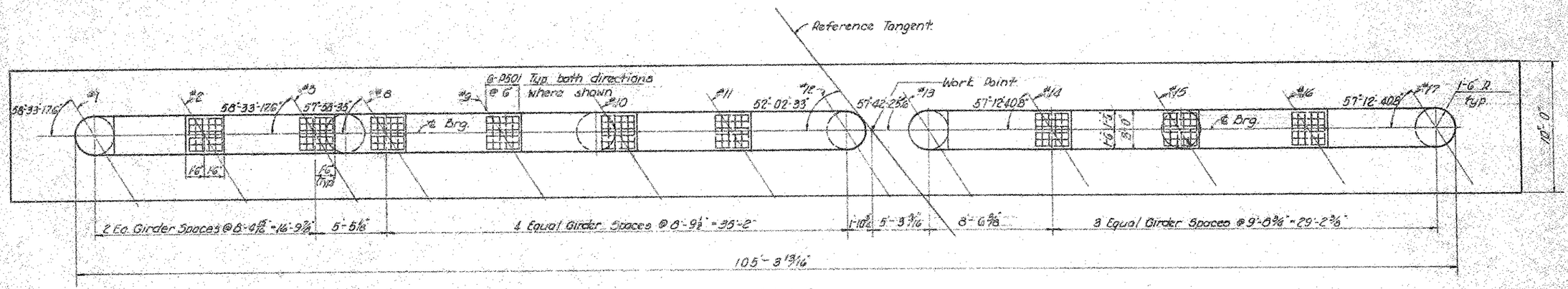
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.C.	F.G.			JF	7/23/70

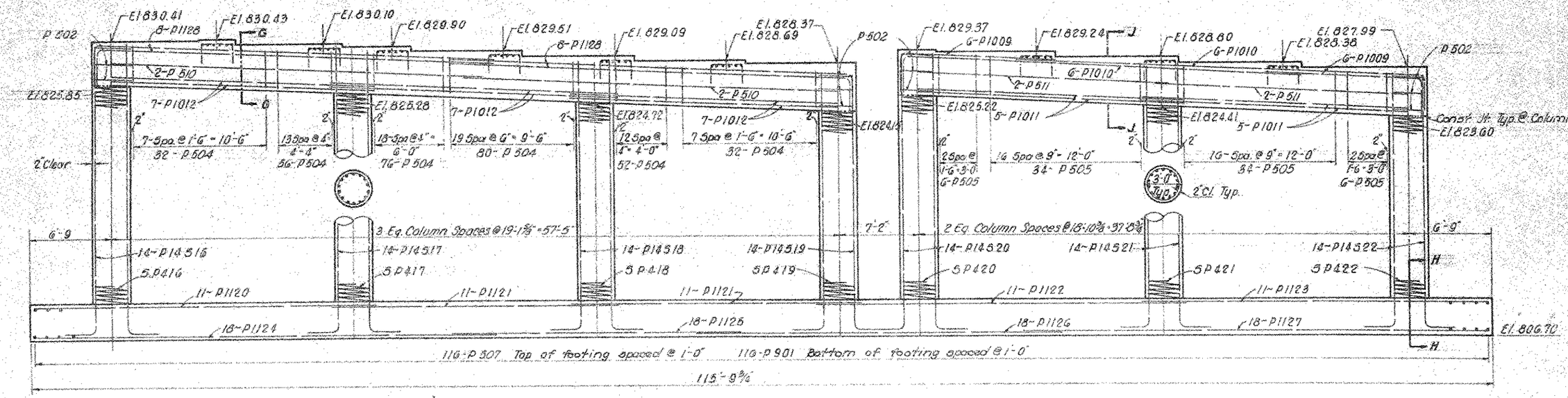
FED. RQ. DIVISION	STATE	PROJECT	
2	OHIO		

330
495

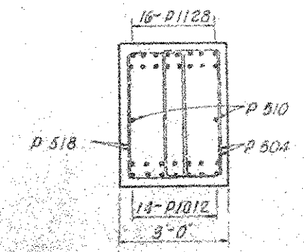
FRA-270-25.39 N.
FRA-62-20.83



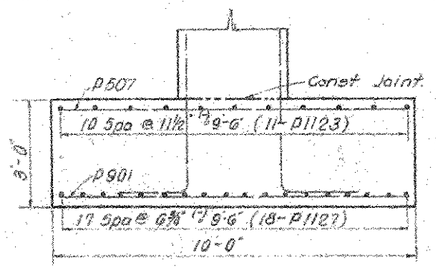
PLAN



ELEVATION

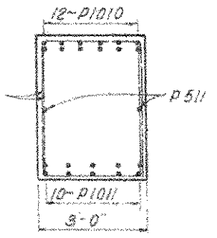


SECTION G-G



SECTION H-H

NOTE:
Reinforcing Steel Clearance from concrete surfaces are 3" in the footings and 2" in the areas above footing, unless otherwise noted.



SECTION J-J

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FORWARD PIER

BRIDGE No FRA-270-2645 N
under Southbound USR-62

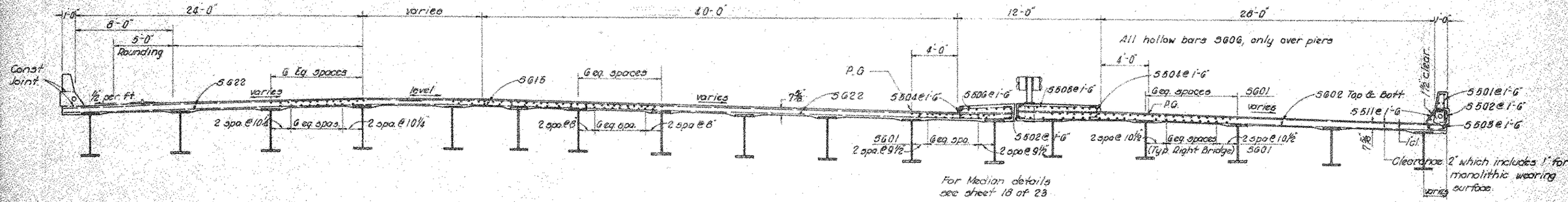
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	PROJ.
M.C	F.G.		FA	JF	7/24/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

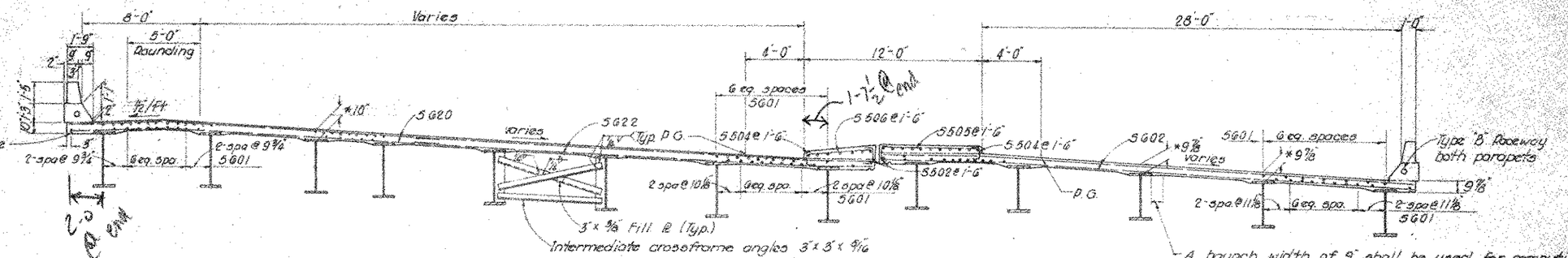
351
495

FRA-270-2539 N
FRA-62-20.83



For Median details see sheet 18 of 23

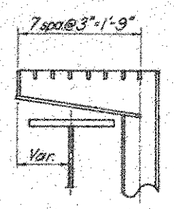
SECTION A-A
See Slab Plan



SECTION B-B
See Slab Plan

A haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may very between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width

* This is the design dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per 511.19.



Note: For details not shown see SD-1-69 sheet 2 of 3.

SCUPPER DETAIL
SPECIAL
See framing Plan for location

48.3
1.6
46.7
4

A 2 2/0

12/25

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

TRANSVERSE SECTIONS

BRIDGE NO. FRA-270-2645 N
Under Southbound U S R - 62

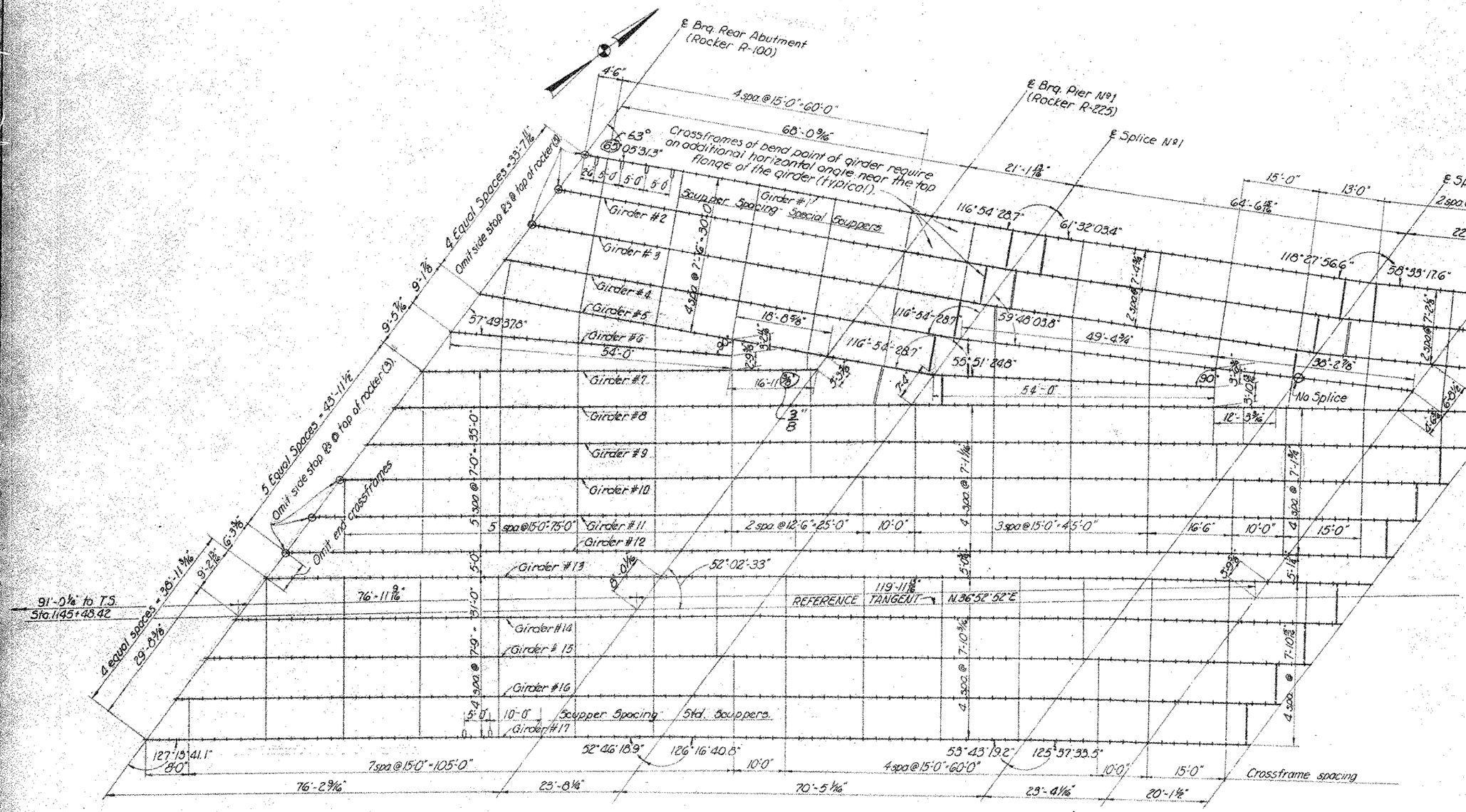
FRANKLIN COUNTY — I.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.M.	F.G.			H	1/21/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

352
195

FRA-270-25.39 N
FRA-62-20.83



Notes

All intermediate crossframes are L's 3×3×5/16.
For end crossframes see Std. Drwg. SD-1-69.

13 / 23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR HALF FRAMING PLAN

FRA-270-2645 N
under USR-62 Southbound

FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.M.			P.A.	JF	1/23/70	3-12-70

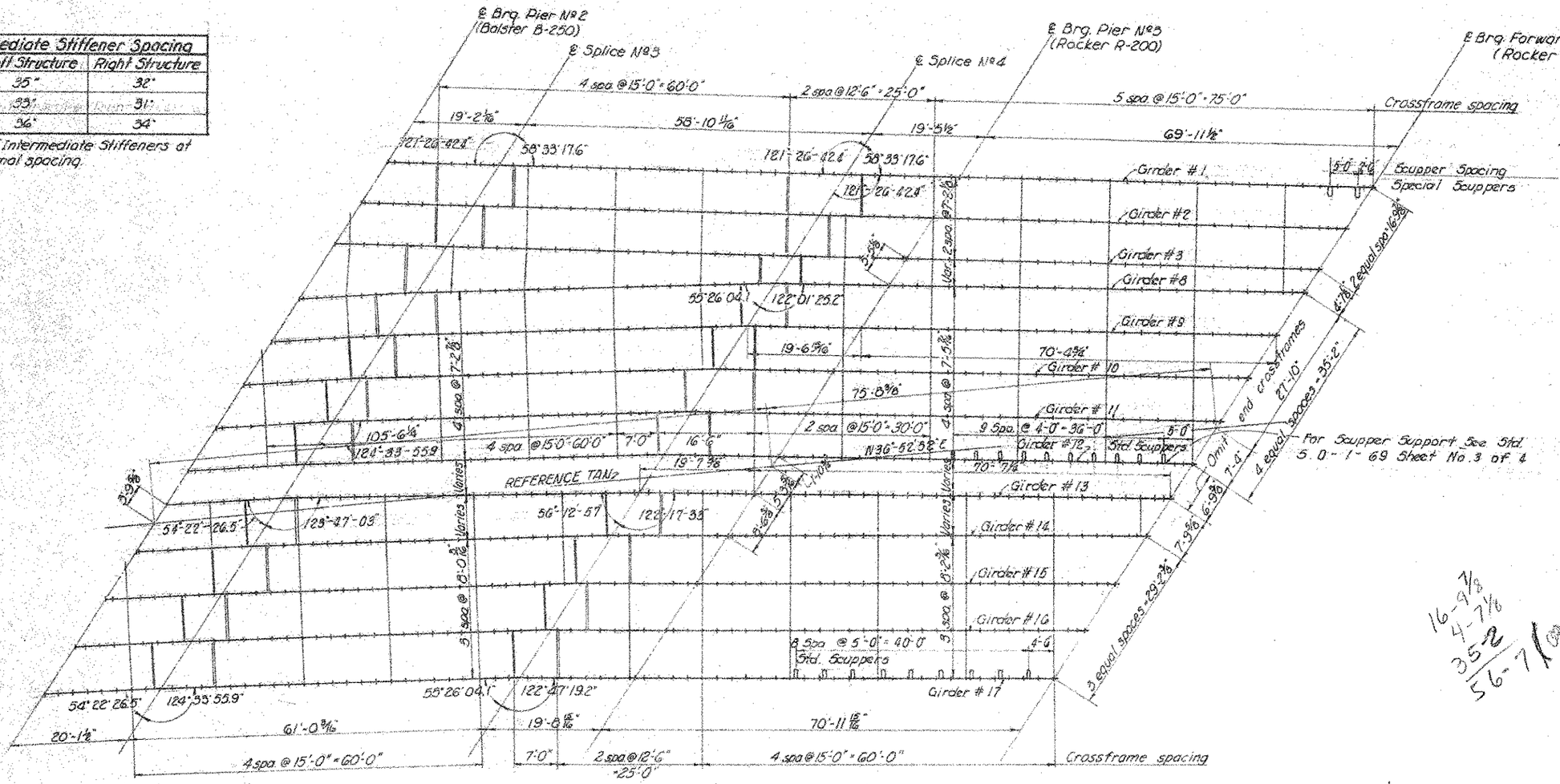
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

353
495

FRA-270-25.39 N
FRA-62-20.83

Maximum Intermediate Stiffener Spacing		
	Left Structure	Right Structure
Span No 1	35"	32"
Spans No 2 & No 3	33"	31"
Span No 4	36"	34"

First two spaces of Intermediate Stiffeners at Abutments = ½ normal spacing.



16-9 7/8
4-7 1/8
35-2
56-7 (or 58 0/33)

14/23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FORWARD HALF FRAMING PLAN

FRA-270-2645 N
under USR-62 Southbound

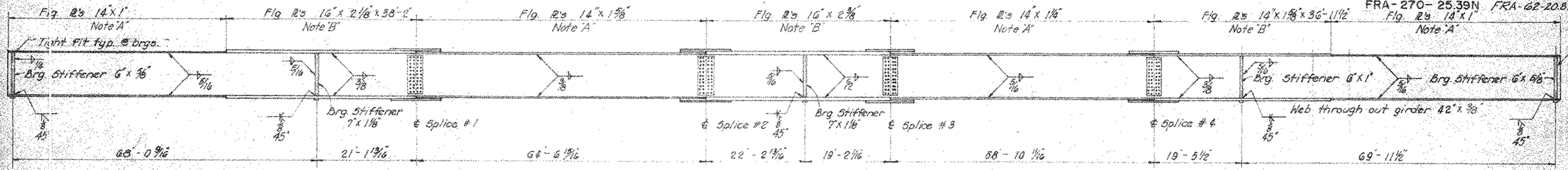
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.T.	[illegible]		JF	JF	7/30/70	

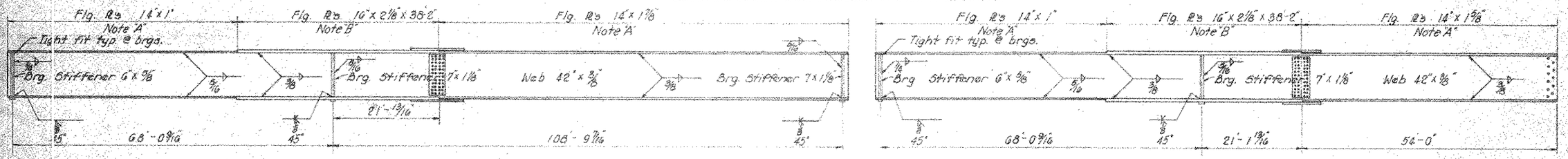
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

354
495

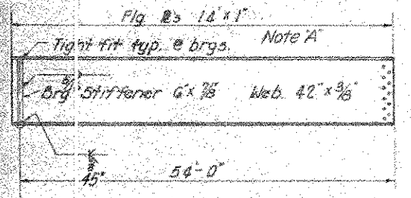
FRA-270-25.39N FRA-62-20.83



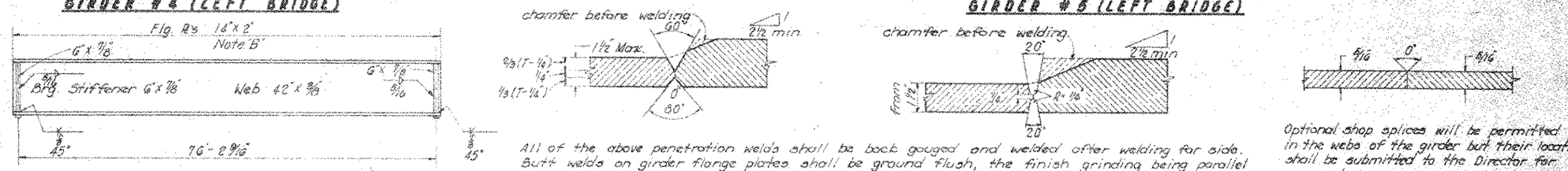
GIRDERS #1, #2 & #3 (LEFT BRIDGE)



GIRDER #4 (LEFT BRIDGE)



GIRDER #5 (LEFT BRIDGE)



All of the above penetration welds shall be back gouged and welded after welding for side. Butt welds on girder flange plates shall be ground flush, the finish grinding being parallel to the direction of the stress.

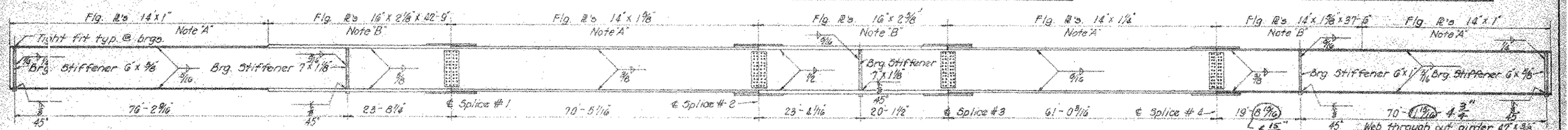
Optional shop splices will be permitted in the webs of the girder but their location shall be submitted to the Director for approval.

GIRDER #6 (LEFT BRIDGE)

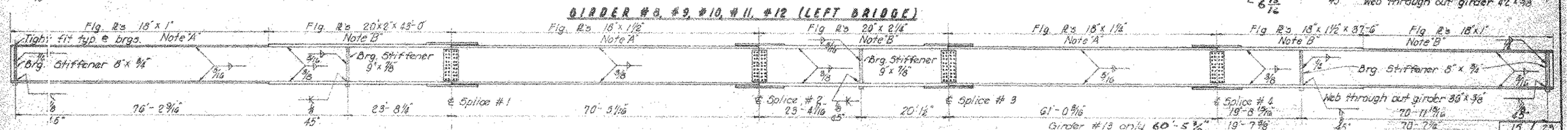
GIRDER #7 (LEFT BRIDGE)

FLANGE PLATE BUTT WELD

WEB SPLICE WELD



GIRDER #8, #9, #10, #11, #12 (LEFT BRIDGE)



GIRDERS #13, #14, #15, #16, #17 (RIGHT BRIDGE)

All bearing stiffeners must have contact bearing at top and bottom flanges.
Note 'A': Stiffeners shall have contact bearing at top and 1/4" max. clearance at bottom.
Note 'B': Stiffeners shall have contact bearing at bottom and 1/4" max. clearance at top.

NOTE:
For location of intermediate stiffeners and girder deflection angles see Framing Plan.

Intermediate stiffeners for right bridge 6"x 3/8" and for left bridge 5"x 5/16"



FLANGE SPLICE DETAIL

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GIRDER ELEVATIONS

BRIDGE NO. FRA-270-2645N
under Southbound U.S.R. 62

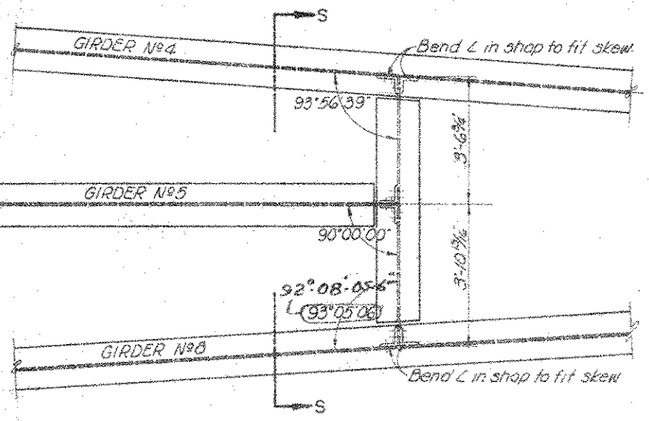
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.M.	F.G.		F.A.	F.A.	7/29/76	

15 / 23

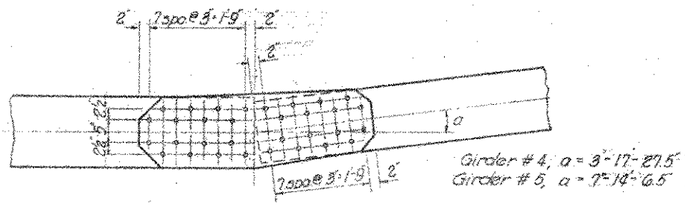
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

355
495

FRA-270-25.39 N.
FRA- 62- 20.83

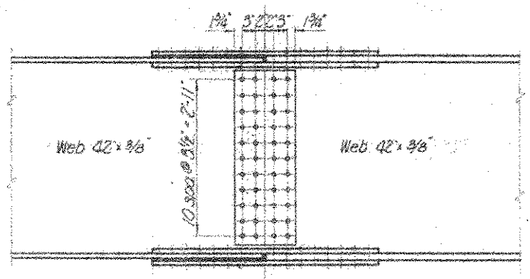


PLAN

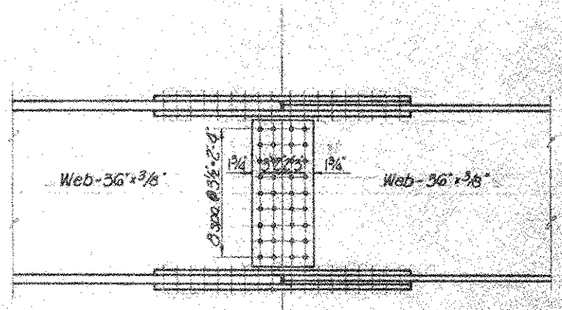


Girder # 4, a = 3°-17'-27.5"
Girder # 5, a = 7°-14'-6.5"

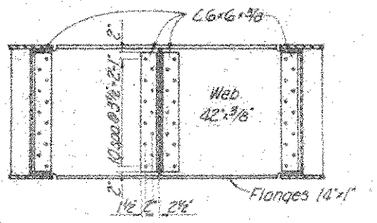
PLAN



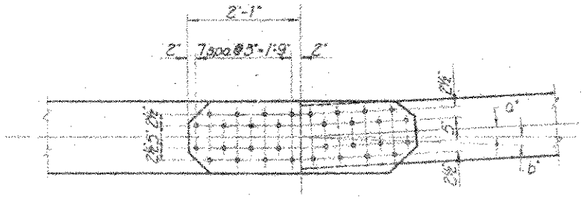
ELEVATION



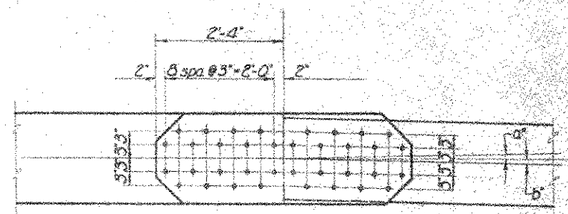
ELEVATION



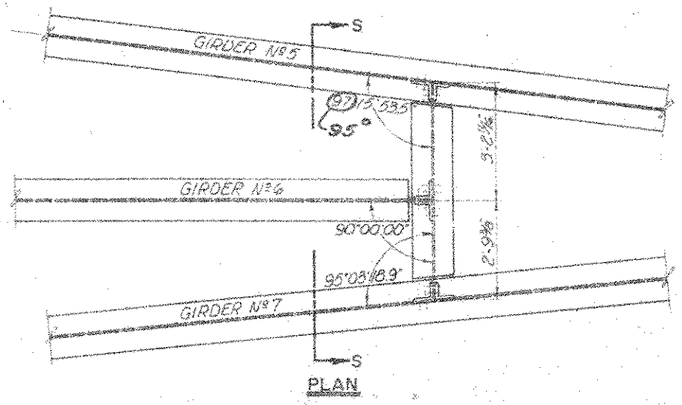
SECTION S-S



PLAN



PLAN



PLAN

INTERIOR GIRDER TERMINAL SUPPORT DETAILS

5	#1	16"x⅞"x4'-2", 6"x1⅛"x4'-2", 13½"x5/16"x3'-3", 14"x½"x2'-1" 7°-14'-6.5"
4	#1	16"x⅞"x4'-2", 6"x1⅛"x4'-2" 13½"x5/16"x3'-3" 14"x½"x2'-1" 3°-17'-27.5"

Girder	Splice	Flange Plates Outside	Flange Plates Inside	Web Splice	Flg Fill PL's Outside	b*
1,2,3	#1	16"x⅞"x4'-2"	6"x1⅛"x4'-2"	18⅛"x5/16"x3'-3"	14"x⅛"x2'-1"	1°33'-27.9"
1,2,3	#2				14"x⅜"x2'-1"	2°58'-45.8"
1,2,3	#3				14"x1⅛"x2'-1"	0
1,2,3	#4				14"x⅜"x2'-1"	0
8,9,10,11,12	#1				14"x⅛"x2'-1"	0°-57'-00.3"
8,9,10,11,12	#2				14"x⅜"x2'-1"	0°-39'-07.3"
8,9,10,11,12	#3				14"x1⅛"x2'-1"	1°-05'-37.6"
8,9,10,11,12	#4				14"x⅜"x2'-1"	2°-32'-30.7"

All bolts 1" High Strength bolts.

* Value for b"

Girder	Splice	Flange Plates Outside	Flange Plates Inside	Web Splice	Flg Fill PL's Outside	b*
14,15,16,17	#1	20"x⅞"x4'-8"	7"x1⅛"x4'-8"	15⅝"x5/16"x7'-8"	18"x⅛"x2'-4"	0°-57'-00.3"
14,15,16,17	#2				18"x⅜"x2'-4"	0°-39'-07.3"
14,15,16,17	#3				18"x1"x2'-4"	1°-05'-37.6"
14,15,16,17	#4				18"x½"x2'-8"	1°-46'-34.7"
13	#1				18"x⅛"x2'-4"	0°-57'-00.3"
13	#2				18"x⅜"x2'-4"	0°-39'-07.3"
13	#3				18"x1"x2'-4"	1°-05'-37.6"
13	#4				18"x½"x2'-4"	2°-50'-45.8"

* Value for a"

GIRDER FIELD SPLICE DETAILS

16 | 23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GIRDER DETAILS

BRIDGE No. FRA-270-2645 N.
under Southbound USR-62

FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.M.			F.A.		7/15/76	8-18-77 9-8-77

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

356/495

DEFLECTION and CAMBER TABLE

Girder No. 1	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	0	-1/32	-1/16	0	+1/16	0	0	+1/32	0	+1/32	+3/32	+3/32
Deflection due to remaining dead load	0	-3/32	-7/32	+1/32	+5/32	+1/32	-1/8	+3/32	+1/32	+3/32	+3/32	+1/4
Adjustment required for superelevation, vertical and horizontal curves	+5/16	+3/8	+3/8	+7/16	+5/16	+7/16	0	0	+1/32	+5/8	+1	+13/16
Required shop camber	+5/16	+1/4	+1/8	+1/2	+3/8	+1/2	-1/8	+1/8	+1/4	+3/4	+1 3/8	+1 5/16

Girder No. 2	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	0	-1/32	-1/16	0	+1/16	0	-1/32	+1/32	0	+1/32	+3/32	+3/32
Deflection due to remaining dead load	0	-3/32	-7/32	+1/32	+5/32	+1/32	-1/8	+1/16	+1/32	+3/32	+3/32	+1/4
Adjustment required for superelevation, vertical and horizontal curves	+27/32	+1 1/4	+1	+13/16	+5/16	0	+7/16	+3/4	+3/4	+9/16	+3/4	+3/4
Required shop camber	+7/8	+1 1/8	+3/4	+7/8	+7/16	+1/16	+5/16	+7/8	+1 3/16	+5/16	+1 1/8	+1 1/8

Girder No. 3	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	0	-1/32	-1/16	0	+1/16	0	-1/32	+1/32	0	+1/32	+3/32	+3/32
Deflection due to remaining dead load	0	-3/32	-7/32	+1/32	+5/16	+1/32	-1/8	+1/16	+1/32	+3/32	+3/32	+1/4
Adjustment required for superelevation, vertical and horizontal curves	+5/8	+7/8	+5/8	+5/8	+5/8	+5/16	+7/16	+5/8	+3/4	0	0	0
Required shop camber	+5/8	+5/8	+3/8	+1/16	+3/8	+7/16	+1/16	+7/8	+1 3/16	+1/4	+3/8	+3/8

Girder No. 4	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	0	-1/16	-3/32	+15/32	+17/32	+5/8	–	–	–	–	–	–
Deflection due to remaining dead load	-1/32	-1/8	-7/32	+1	+1 5/32	+3/8	–	–	–	–	–	–
Adjustment required for superelevation, vertical and horizontal curves	+3/4	+3/4	+5/8	+13/16	+15/16	+1/2	–	–	–	–	–	–
Required shop camber	+5/8	+13/16	+5/16	+2 1/4	+2 1/2	+1 5/16	–	–	–	–	–	–

Girder No. 5	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+3/32	+1/32	+1/16	+3/32	+3/32	–	–	–	–	–	–
Deflection due to remaining dead load	+3/16	+7/32	+1/16	+1/4	+13/32	+3/32	–	–	–	–	–	–
Adjustment required for superelevation, vertical and horizontal curves	+1	+1 1/2	+1	0	0	0	–	–	–	–	–	–
Required shop camber	+1 1/4	+1 13/16	+1 1/8	+5/16	+3/8	+5/16	–	–	–	–	–	–

Girder No. 6	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	+1/16	–	–	–	–	–	–	–	–	–
Deflection due to remaining dead load	+9/16	+1/4	+9/16	–	–	–	–	–	–	–	–	–
Adjustment required for superelevation, vertical and horizontal curves	+1/4	+1/4	+1/4	–	–	–	–	–	–	–	–	–
Required shop camber	+1/2	+9/16	+1/2	–	–	–	–	–	–	–	–	–

Girder No. 7	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+9/16	+9/16	+9/16	–	–	–	–	–	–	–	–	–
Deflection due to remaining dead load	+9/16	+9/16	+5/8	–	–	–	–	–	–	–	–	–
Adjustment required for superelevation, vertical and horizontal curves	+1/4	+1/4	+1/4	–	–	–	–	–	–	–	–	–
Required shop camber	+1	+1 5/16	+1 1/16	–	–	–	–	–	–	–	–	–

Girder No. 8	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+3/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	+5/16	+1/4	+5/16	+5/8	+5/16	+5/16	+5/16	+3/8	+5/8	0	0	0
Required shop camber	+9/16	+1/2	+5/16	+1 1/16	+1 5/16	+7/8	+9/16	+1 1/16	+1 3/8	+5/16	+3/8	+3/8

Girder No. 9	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+3/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	+1/16	+3/8	+3/8	+15/32	+5/16	+5/16	+5/16	+3/8	+5/8	0	0	0
Required shop camber	+1/2	+5/8	+1/4	+1 1/8	+1 5/16	+1	+7/16	+1 1/16	+1 5/16	+3/8	+7/16	+3/8

Girder No. 10	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	+1/8	+1/16	0	+3/8	+1/2	+3/8	+3/16	+1/4	+3/8	0	0	0
Required shop camber	+3/8	+5/16	-1/8	+1 1/16	+1 1/4	+1 1/16	+7/16	+13/16	+3/8	+3/8	+5/16	+1/4

Girder No. 11	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	0	+1/8	0	+1/8	+3/8	+7/16	+3/8	+1/2	+5/8	-1/4	-1/8	0
Required shop camber	+1/4	+3/8	-1/8	+5/8	+1 3/16	+1 1/8	+5/8	+1 5/16	+7/8	-1/8	+5/16	+3/8

Girder No. 12	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	0	0	0	+5/16	+1/16	+1/2	+1/4	+3/8	+1/4	+1/8	-1/8	0
Required shop camber	+1/4	+1/4	-1/8	+1 3/16	+1 3/16	+1 3/16	+3/4	+15/16	+7/8	+3/16	+5/16	+3/8

Girder No. 13	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	0	0	0	+3/16	+3/8	+3/16	+3/8	+3/8	+5/16	+5/16	+5/16	+5/16
Required shop camber	+1/4	+1/4	-1/8	+1 3/16	+1 5/16	+1 1/4	+5/8	+7/8	+7/16	+3/8	+3/8	+13/16

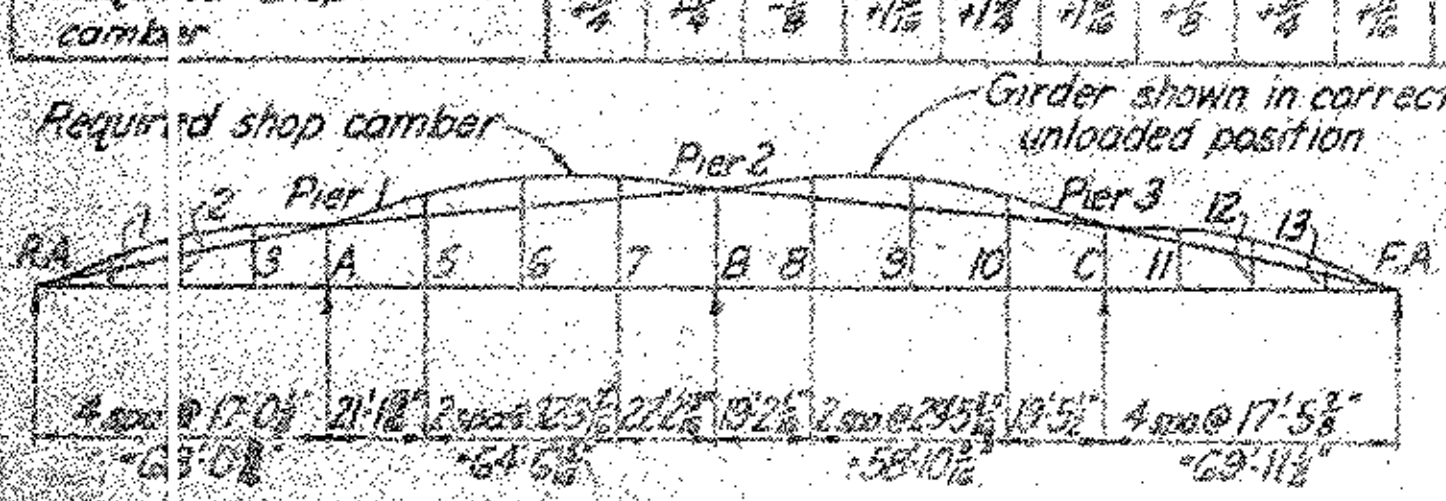
Girder No. 14	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	+1/4	+3/8	+3/16	+5/16	+5/16	+5/16	+3/16	+1/4	+3/16	0	-1/8	-1/8
Required shop camber	+1/2	+5/8	+1/16	+1 1/16	+1 5/16	+1 1/8	+5/8	+5/8	+5/8	+3/16	+5/16	+1/4

Girder No. 15	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	0	0	0	+3/8	+3/8	+3/16	+3/16	+3/16	+3/8	0	0	0
Required shop camber	+1/4	+1/4	-1/8	+1 1/8	+1 1/8	+1 3/8	+1 1/16	+3/8	+1/4	+1/8	+1/8	+1

Girder No. 16	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	0	0	0	+3/16	+1/2	+1/2	+1/8	+3/16	+7/16	0	-1/8	-1/8
Required shop camber	+1/4	+1/4	-1/8	+1 1/16	+1 3/4	+1 3/16	+3/8	+3/4	+11/16	+3/16	+5/16	+1/4

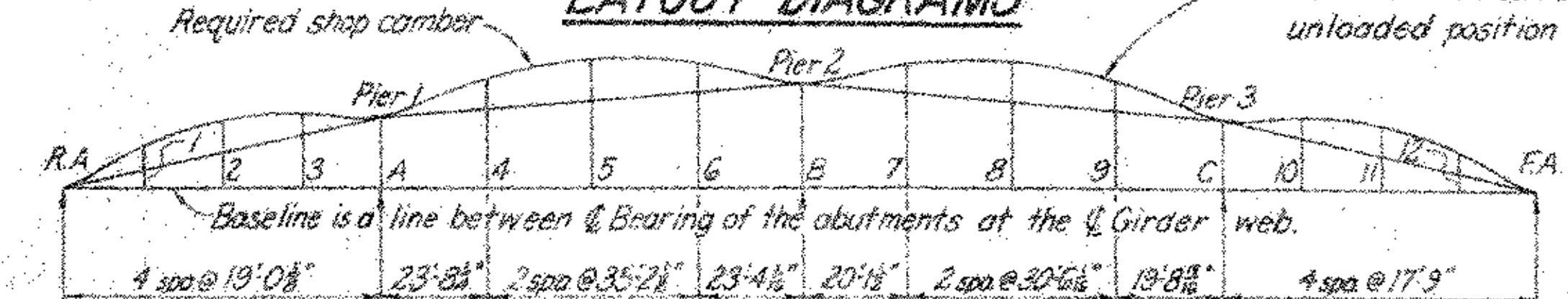
Girder No. 17	Span No. 1 ¼ pt	½ pt	¾ pt	Span No. 2 Sp. pt	½ pt	Sp. pt	Span No. 3 Sp. pt	½ pt	Sp. pt	Span No. 4 ¼ pt	½ pt	¾ pt
Deflection due to weight of steel	+1/16	+1/16	-1/32	+3/16	+5/16	+5/32	0	+1/16	+1/16	+1/32	+3/32	+3/32
Deflection due to remaining dead load	+3/16	+5/32	-3/32	+5/16	+29/32	+1/2	0	+1/4	+5/32	+1/8	+5/16	+5/32
Adjustment required for superelevation, vertical and horizontal curves	+3/16	+1/4	+1/16	+1/2	+3/16	+5/16	+1/4	+7/16	+1/4	-1/8	-5/16	-5/16
Required shop camber	+7/16	+1/2	-1/16	+1 1/4	+1 13/16	+1	+1/4	+3/4	+1/2	-1/16	+1/8	+1/16

LAYOUT DIAGRAMS



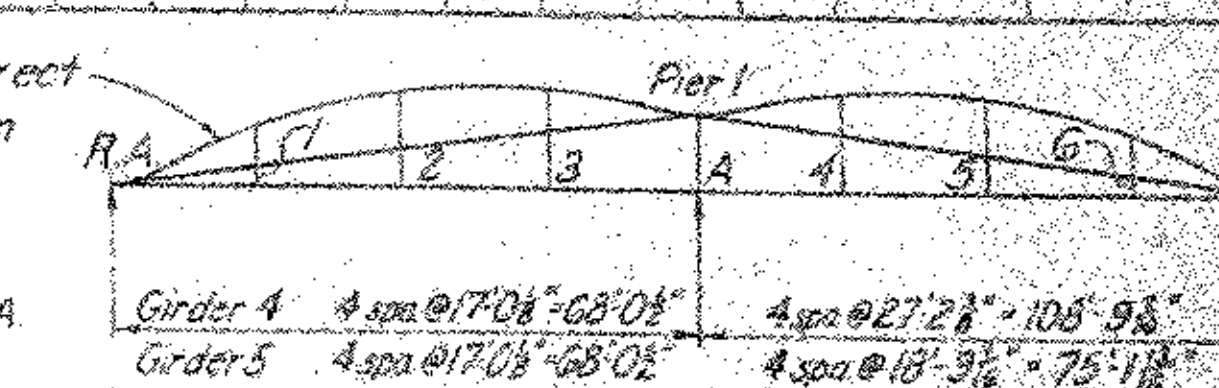
Girder	1	2	3	A	5	6	7	B	8	9	10	C	11	12	13
1	1½	3	4½	6	6¼	6½	6¾	7	6¾	6½	6⅛	5⅞	4⅞	2⅞	1⅛
2	1⅛	2 9/16	4⅛	5⅝	6⅛	6⅜	6⅝	6⅞	6⅞	6 1/16	5⅝	5¼	4	2⅝	1⅛
3	1⅛	2 1/16	4¼	5⅞	5¾	5⅞	6 1/16	6⅛	5 15/16	5⅞	4⅞	4 5/16	3⅞	2 5/16	1⅛

Girders 1, 2, & 3



Girder	1	2	3	A	4	5	6	B	7	8	9	C	10	11	12
8	⅞	1 13/16	2⅝	3½	3⅞	4⅞	5½	6⅛	5⅞	5⅝	5	4⅜	3 5/16	2⅛	1 1/16
9	⅞	1⅝	2⅝	3⅜	3⅞	4½	5¼	5 5/16	5 5/16	5⅜	4⅞	4⅜	3 5/16	2¼	1⅛
10	⅞	1⅝	2¼	3½	3⅞	4½	4⅞	5 1/16	4 13/16	4⅜	3 9/16	3⅝	2⅜	1⅜	⅞
11	⅞	1⅝	2⅜	3⅜	3⅜	3 5/16	4⅜	4⅞	4½	4¼	3⅝	3⅛	2¼	1⅛	⅞
12	⅞	1⅝	2⅜	3¼	3½	4	4 5/16	4⅞	4⅞	3⅜	3¼	2⅝	2⅛	1⅛	⅞
13	⅞	1⅝	2 5/16	3 5/16	4⅛	4⅞	5 5/16	5⅞	5¼	4⅞	4⅜	3⅞	2⅛	1⅛	⅞
14	⅞	1⅜	2⅜	3⅛	3⅞	3⅞	4⅜	4⅞	4¼	3⅝	3⅜	2⅜	2⅛	1 5/16	⅞
15	⅞	1⅜	2⅛	3	3¼	3 5/16	4⅛	4⅛	4	3⅜	2⅞	2⅛	1⅛	1 5/16	⅝
16	⅞	1⅜	2⅞	3⅜	3⅜	3⅞	4⅛	4⅜	4⅛	3⅜	2⅜	2⅛	1⅜	1 1/16	⅝
17	⅞	1⅜	2⅜	3¼	3⅜	3⅜	4¼	4¼	4	3 1/16	2⅜	2⅜	1 5/16	1 1/16	⅝

Girders 8, 9, 10, 11, & 12



Girder	1	2	3	A	4	5	6
4	⅞	1 5/16	2⅜	3⅜	2⅜	1 5/16	⅞
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Girders 4 & 5

19/23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

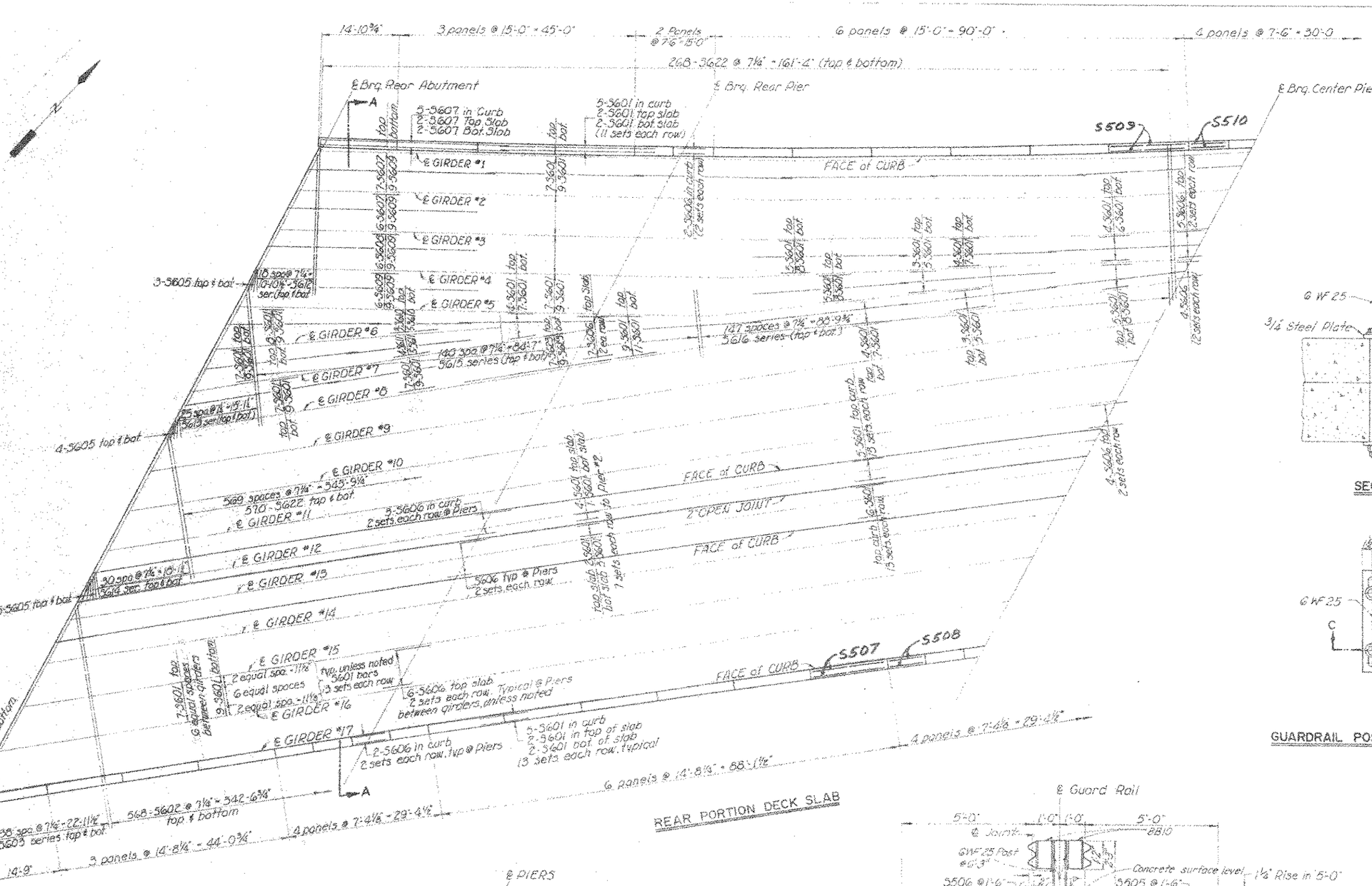
CAMBER & DEFLECTION TABLE
BRIDGE No. FRA-270-[redacted]
under USR-62-[redacted] S.B.
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
H.M.	D.M.F.		F.A.		24 Jan '70

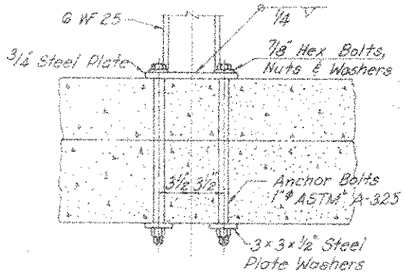
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

357/495

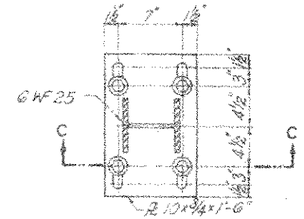
FRA-270-25.39 N.
FRA-62-20.83



REAR PORTION DECK SLAB



SECTION C-C



PLAN
GUARDRAIL POST MOUNTING DETAIL

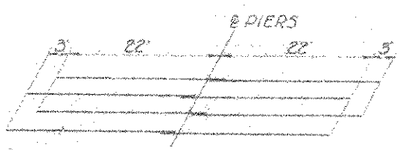
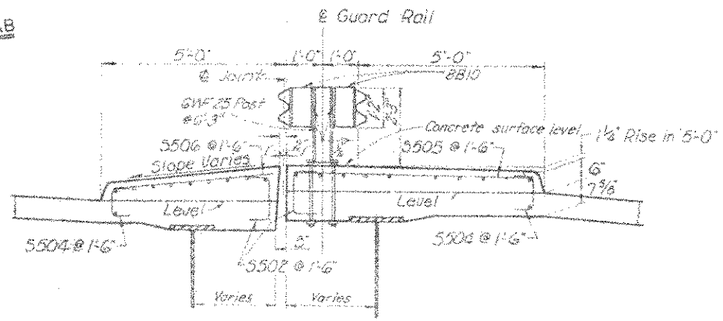


DIAGRAM SHOWING STAGGER of S606 BARS over PIERS



MEDIAN DETAIL

18/23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

PARTIAL SLAB PLAN and DETAILS

BRIDGE No. FRA-270-2645N.
under Southbound USR-62

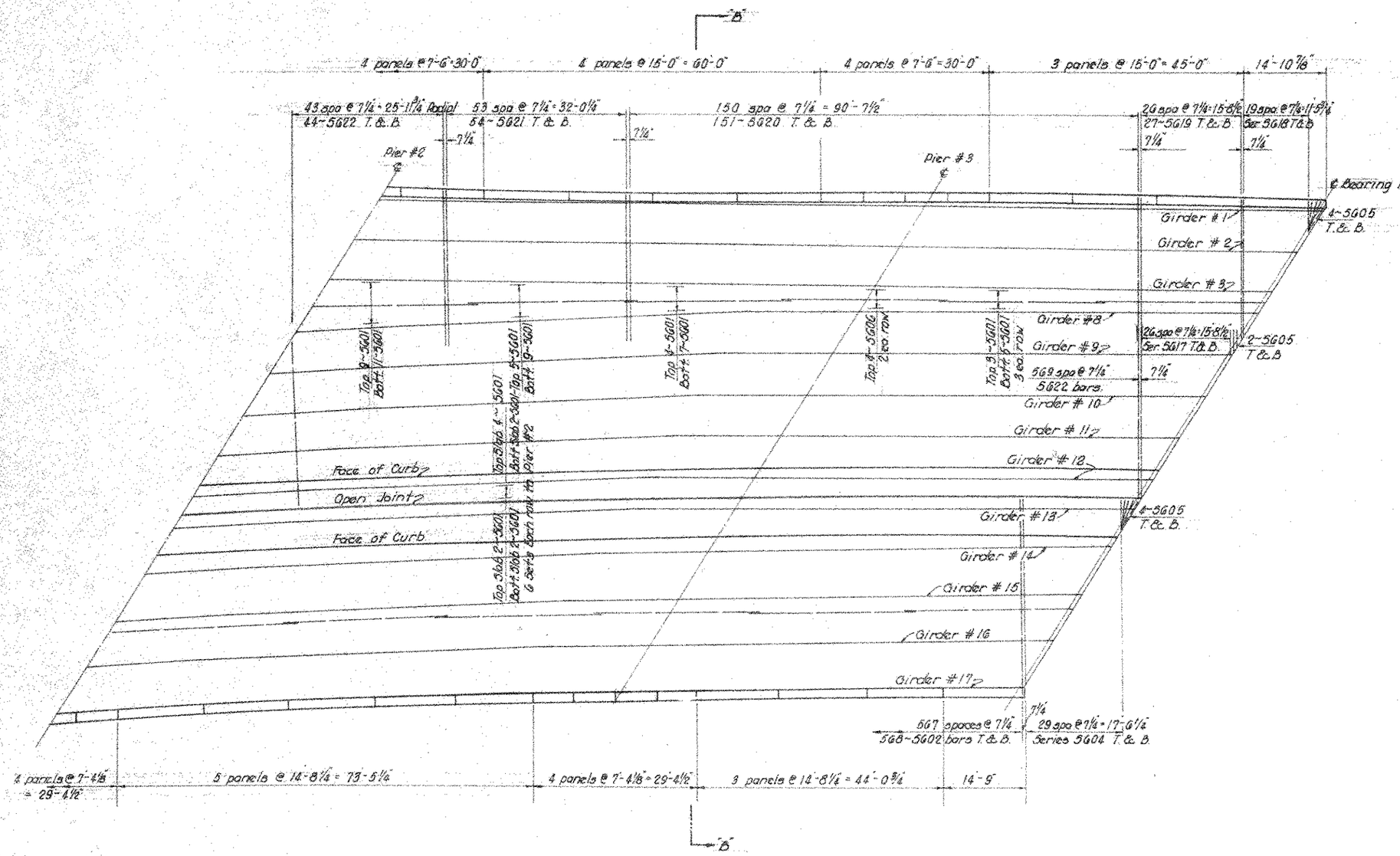
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
H.M.	N.L.A. D.M.Y.		F.A.	J.F.	9/23/70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

356
495

FRA-270-25.39 N.
FRA-62-20.88



19 25

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

PARTIAL SLAB PLAN

BRIDGE No. FRA-270-2645 N.
under Southbound USR-62

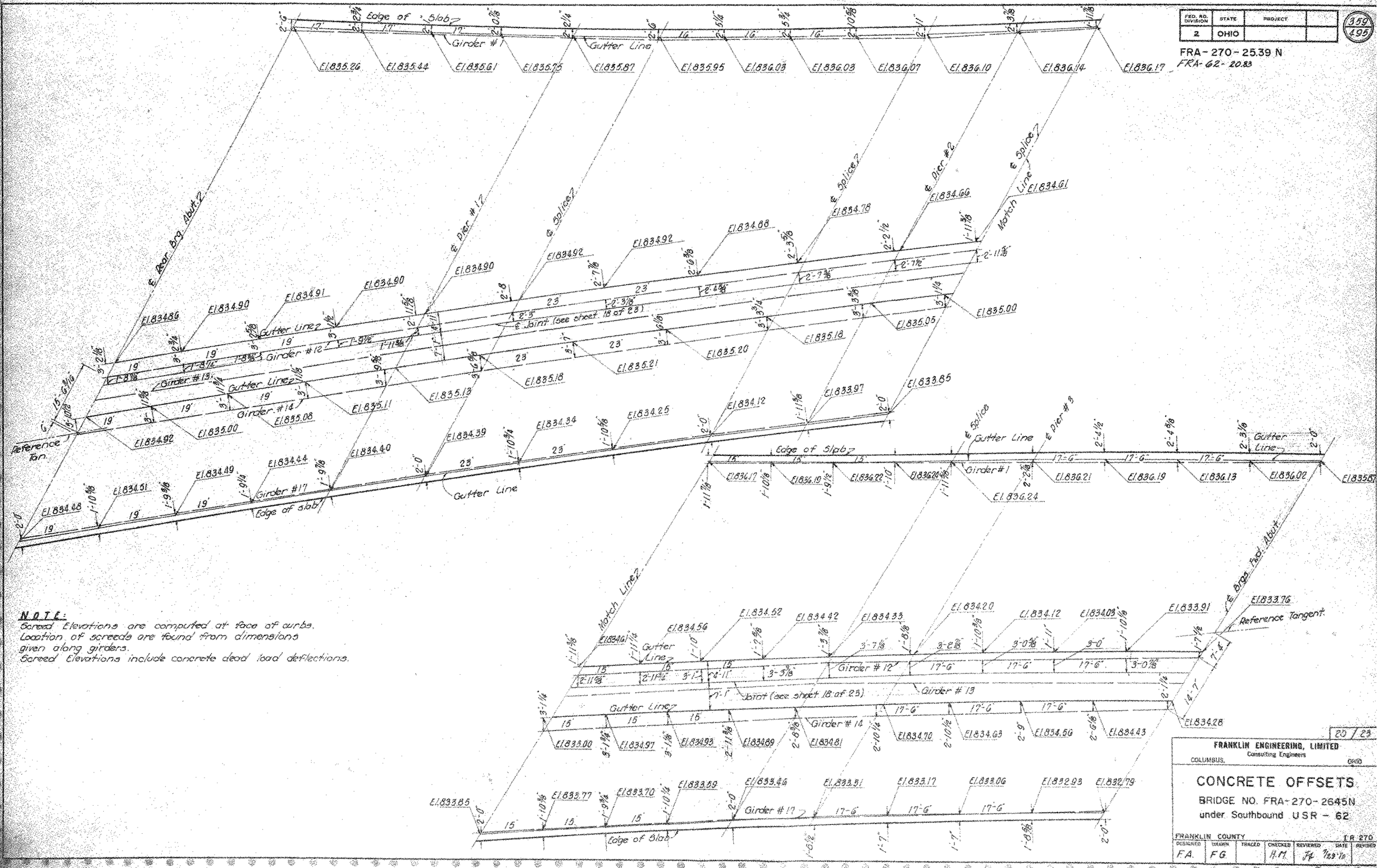
FRANKLIN COUNTY 1R-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.M.	F.G.		F.A.	JF	1/23/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

359
495

FRA-270-25.39 N
FRA-62-20.83



NOTE:
Screed Elevations are computed at face of curbs.
Location of screeds are found from dimensions given along girders.
Screed Elevations include concrete dead load deflections.

25 / 25

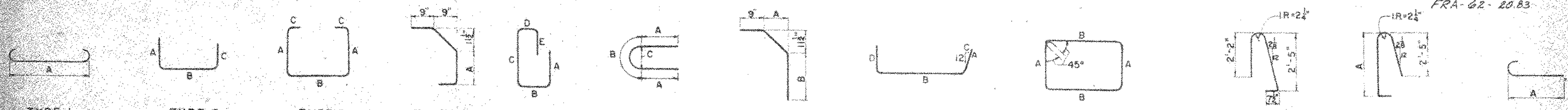
FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

CONCRETE OFFSETS

BRIDGE NO. FRA-270-2645N
under Southbound USR - 62

FRANKLIN COUNTY — I R 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.A.	F.G.		A.M.	J.F.	7/29/70	



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6 TYPE 7 TYPE 8 TYPE 9 TYPE 10 TYPE 11 TYPE 12

ABUTMENTS

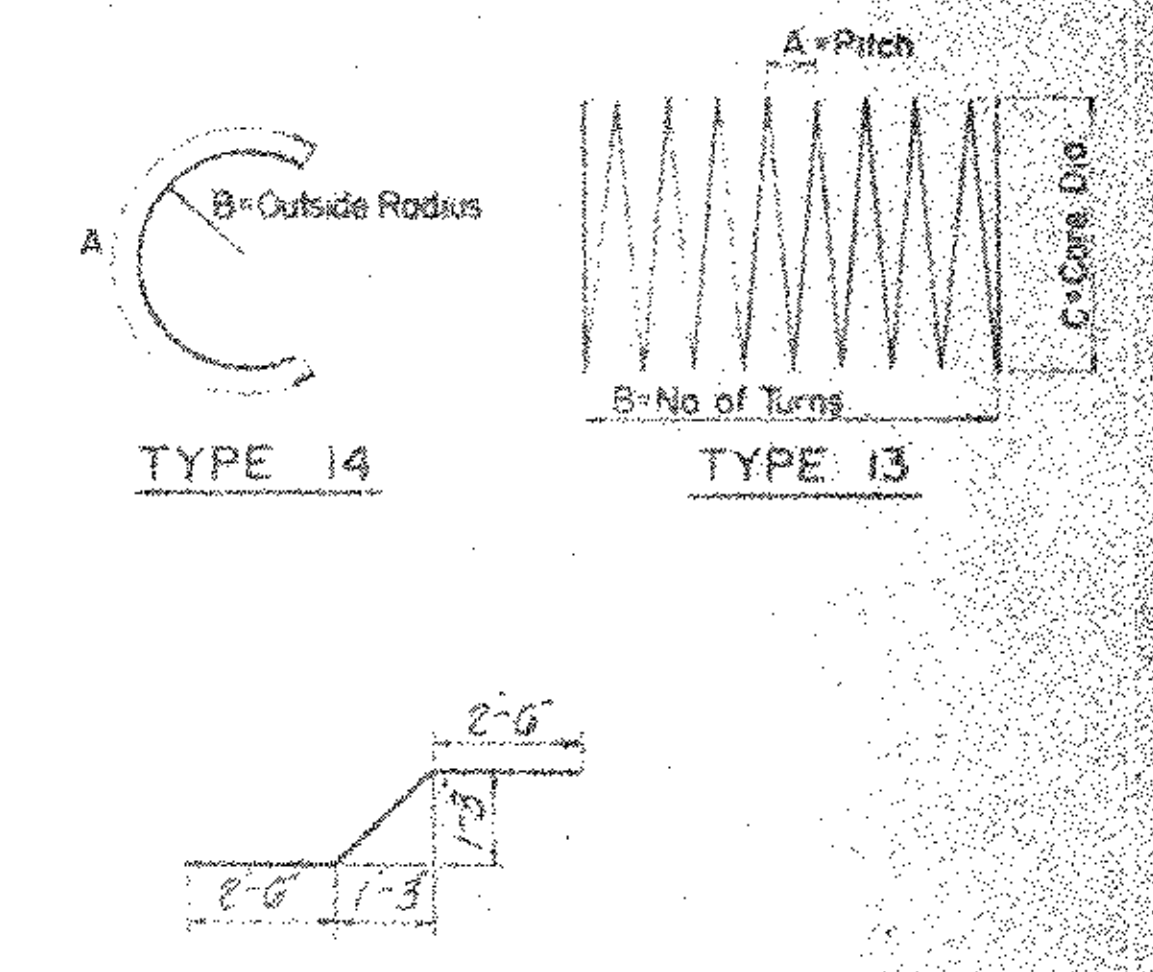
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A801	42	26'-8"	Str.						2990
A802	2	13'-3"	Str.						71
A803	2	9'-6"	Str.						51
A804	2	12'-6"	Str.						67
A805	2	10'-9"	Str.						57
A806	4	12'-3"	Str.						131
A701	1	4'-2"	Str.						9
A702	1	5'-1"	7	2¼"	3'-6"				10
A703	1	5'-6"	7	4"	3'-10"				11
A704	1	5'-11"	7	6"	4'-2"				12
A705	1	6'-4"	7	9"	4'-6"				13
A706	1	6'-8"	7	9"	4'-10"				14
A707	1	4'-2"	Str.						9
A708	1	5'-0"	7	2¼"	3'-5"				10
A709	1	5'-4"	7	4"	3'-8"				11
A710	1	5'-8"	7	6"	3'-11"				12
A711	1	6'-0"	7	9"	4'-2"				12
A712	1	6'-3"	7	9"	4'-5"				13
A601	13	14'-3"	2	2'-7"	5'-4"	6'-8"			278
A602	15	14'-5"	2	2'-7"	5'-4"	6'-10"			325
A603	21	14'-7"	2	2'-7"	5'-4"	7'-0"			460
A604	24	14'-9"	2	2'-7"	5'-4"	7'-2"			532
A605	9	14'-2"	2	2'-7"	5'-4"	6'-7"			192
A606	7	14'-11"	2	2'-7"	5'-4"	7'-4"			157
A607	16	15'-2"	2	2'-7"	5'-4"	7'-7"			364
A608	6	15'-0"	2	2'-7"	5'-4"	7'-5"			135
A609	14	7'-11"	2	3'-5"	1'-5"	3'-5"			166
A610	143	11'-1"	2	5'-0"	1'-5"	5'-0"			2381
A611	68	7'-1"	2	3'-3"	11"	3'-3"			723
A612	20	5'-3"	2	2'-1"	1'-5"	2'-1"			158
A613	48	5'-11"	2	2'-5"	1'-5"	2'-5"			427
A614	15	9'-7"	2	4'-3"	1'-5"	4'-3"			216
A615	46	8'-7"	2	3'-9"	1'-5"	3'-9"			593
A616	2	8'-8"	Str.						26
A617	2	6'-6"	Str.						20
A618	7-[illegible]	6'-[illegible]-8"	7	9"	[illegible]	4'-9"			70-[illegible]
A619	6	18'-[illegible]-2"	2	8'-8"	1'-2"	8'-8"			164-[illegible]
A620	4	18'-6"	2	8'-10"	1'-2"	8'-10"			111
A621	2	6'-9"	Str.						20
A622	2	7'-3"	Str.						22
A623	2	8'-10"	Str.						27
A624	5	7'-0"	7	9"	5'-1"				53
A501	111	8'-4"	2	1'-7"	5'-4"	1'-7"			965
A502	111	6'-8"	2	1'-9"	3'-5"	1'-9"			772
A503	13	7'-2"	2	6'-7"	8"	0			97
A504	15	7'-4"	2	6'-9"	8"	0			115
A505	21	7'-6"	2	6'-11"	8"	0			164
A506	24	7'-8"	2	7'-1"	8"	0			192
A507	9	7'-1"	2	6'-6"	8"	0			67
A508	7	7'-10"	2	7'-3"	8"	0			57
A509	16	8'-1"	2	7'-6"	8"	0			135
A510	6	7'-11"	2	7'-4"	8"	0			50
A511	15	24'-6"	Str.						383
A512	15	22'-6"	Str.						352

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A513	21	30'-0"	Str.						657
A514	3	10'-6"	Str.						33
A515	4	23'-8"	Str.						99
A516	3	14'-0"	Str.						44
A517	4	33'-8"	Str.						140
A518	3	29'-3"	Str.						92
A519	4	21'-2"	Str.						88
A520	3	9'-3"	Str.						29
A521	20	3'-0"	Str.						63
A522	24	2'-0"	2	7½"	1'-0"	7½"			50
A523	14	6'-3"	11	3'-1"					91
A524	4	7'-7"	Str.						32
A525	4	8'-3"	Str.						34
A526	19	11'-7"	9	2'-4"	3'-2"				230
A527	12	14'-8"	Field Bent						184
A528	2	9'-0"	Str.						19
A529	2	9'-6"	Str.						20
A530	6	9'-3"	Str.						58
A531	1	3'-0"	Str.						3
A532	1	3'-4"	Str.						3
A533	1	3'-8"	Str.						4
A534	1	4'-0"	Str.						4
A535	1	4'-4"	Str.						5
A536	1	4'-8"	Str.						5
A537	5	5'-3"	Str.						27
A538	12	17'-2"	Field Bent						215
A539	2	11'-6"	Str.						24
A540	2	12'-0"	Str.						25
A541	6	10'-6"	Str.						66
A542	1	3'-0"	Str.						3
A543	1	3'-3"	Str.						3
A544	1	3'-6"	Str.						4
A545	1	3'-9"	Str.						4
A546	1	4'-0"	Str.						4
A547	1	4'-3"	Str.						4
A548	7	4'-10"	Str.						35
A549	3	9'-6"	Str.						30
A550	15	22'-0"	Str.						344
A551	11-[illegible]	24'-0"	Str.						275-[illegible]
A552	15	30'-0"	Str.						469
B801	14	23'-4"	Str.						872
B802	14	33'-9"	Str.						1262
B803	4	6'-3"	15						67
B804	4	13'-4"	Str.						142
B805	2	9'-6"	Str.						51
B806	4	12'-3"	Str.						131
B807	2	9'-6"	Str.						51
B701	1	4'-2"	Str.						9
B702	1	5'-2"	7	2¼	3'-7"				11
B703	1	5'-8"	7	4"	4'-0"				12
B704	1	6'-2"	7	6"	4'-5"				13
B705	1	6'-8"	7	9"	4'-10"				14
B706	1	7'-1"	7	9"	5'-3"				15
B707	1	4'-2"	Str.						9
B708	1	5'-1"	7	2¼	3'-6"				10
B709	1	5'-6"	7	4"	3'-10"				11
B710	1	5'-11"	7	6"	4'-2"				12
B711	1	6'-3"	7	9"	4'-6"				13
B712	1	6'-8"	7	9"	4'-10"				14

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
B601	17	15'-7"	2	8'-0"	5'-4"	2'-7"			398
B602	15	15'-1"	2	7'-6"	5'-4"	2'-7"			340
B603	11	14'-11"	2	7'-4"	5'-4"	2'-7"			247
B604	23	14'-7"	2	7'-0"	5'-4"	2'-7"			504
B605	13	14'-0"	2	6'-5"	5'-4"	2'-7"			273
B606	1	15'-4"	2	7'-9"	5'-4"	2'-7"			23
B607	101	5'-3"	2	2'-1"	1'-5"	1'-11"			796
B608	14	15'-1"	2	7'-0"	1'-5"	7'-8"			317
B609	61	7'-1"	2	3'-3"	0'-11"	3'-3"			649
B610	42	12'-5"	2	5'-8"	1'-5"	5'-8"			783
B611	13	16'-1"	2	7'-6"	1'-5"	7'-6"			314
B612	13	14'-3"	2	6'-7"	1'-5"	6'-7"			278
B613	19	11'-9"	2	5'-4"	1'-5"	5'-4"			335
B614	7	7'-2"	7	0'-9"	5'-3"				75
B615	5	20'-6"	2	9'-10"	1'-2"	9'-10"			154
B616	4	9'-10"	Str.						59
B617	4	7'-9"	Str.						47
B618	5	6'-8"	7	9"	4'-10"				50
B619	5	17'-10"	2	8'-6"	1'-2"	8'-6"			134
B620	2	6'-4"	Str.						19
B621	2	6'-10"	Str.						21
B501	80	8'-4"	2	1'-7"	5'-4"	1'-7"			695
B502	80	6'-8"	2	1'-9"	3'-5"	1'-9"			556
B503	17	8'-6"	2	7'-11"	8"	0"			151
B504	15	8'-0"	2	7'-5"	8"	0"			125
B505	11	7'-10"	2	7'-9"	8"	0"			90
B506	23	7'-6"	2	6'-11"	8"	0"			180
B507	13	6'-11"	2	6'-4"	8"	0"			94
B508	1	8'-3"	2	7'-8"	8"	0"			9
B509	22-[illegible]	27'-5"	Str.						629-[illegible]
B510	2	9'-6"	Str.						20
B511	5	11'-2"	Str.						58
B512	5	14'-6"	Str.						76
B513	15	10'-5"	Str.						163
B514	5	16'-1"	Str.						84
B515	5	10'-5"	Str.						54
B516	10	11'-4"	Str.						118
B517	5	12'-3"	Str.						64
B518	1	9'-9"	Str.						10
B519	4	23'-6"	Str.						98
B520	1	13'-8"	Str.						14
B521	1	21-[illegible]-0"	Str.						22-[illegible]
B522	2	22'-2"	Str.						46
B523	1	9'-3"	Str.						10
B524	20	3'-0"	Str.						63
B525	24	2'-0"	2	7½"	1'-0"	7½"			50
B526	14	6'-3"	11	3'-1"					91
B527	25	11'-7"	9	2'-4"	3'-2"				302
B528	8	17'-2"	Field Bent						143
B529	4	7'-6"	Str.						31
B530	2	11'-6"	Str.						24
B531	4	17'-2"	Str.						72
B532	4	8'-0"	Str.						33
B533	2	10'-9"	Str.						22
B534	6	10'-7"	Str.						66



TYPE 14 TYPE 13

TYPE 15

NOTES

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximatly 0.80 lbs. per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example A506 is a No. 5 size bar and P1101 is a No. 11 size bar.

21/25

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE No. FRA-270-2645N
under Southbound USR-62

FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	
M.A.	J.F.		MLA July 70	[illegible]	9/23/70	[illegible]

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

361/495

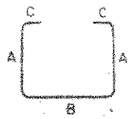
FRA-270-25.39N
FRA-62-20.83



TYPE 1



TYPE 2



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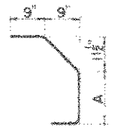

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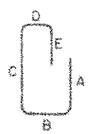

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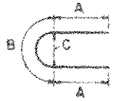


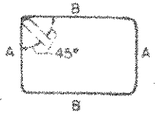
TYPE 6



TYPE 7



TYPE 8



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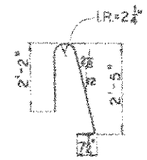

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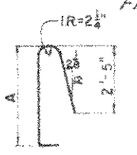
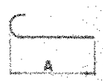


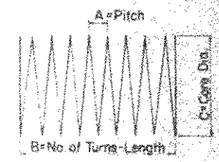
TYPE 11



TYPE 12



TYPE 14



TYPE 13

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A330	2	3'-0"	Str.						3
A336	1	3'-5"	Str.						4
A337	1	3'-10"	Str.						4
A338	1	4'-3"	Str.						4
A339	1	4'-8"	Str.						5
A340	1	5'-1"	Str.						5
A341	7	5'-3"	Str.						36
A540	8	14'-8"	Str.						122
A505	2	9'-0"	Str.						19
A514	4	14'-8"	Str.						61
A545	6	9'-5"	Str.						59
A546	1	9'-0"	Str.						5
A547	1	9'-4"	Str.						3
A548	1	9'-8"	Str.						4
A550	1	2'-0"	Str.						4
A700	1	2'-4"	Str.						5
A551	1	2'-8"	Str.						5
A702	5	4'-10"	Str.						25

Abutment Totals 30574 lbs

PIERS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P14501	16	22'-5"	2	20'-4"	2'-6"	0			2744
P14502	16	22'-7"	2	20'-6"	2'-6"	0			2591
P14503	14	22'-2"	2	20'-1"	2'-6"	0			2374
P14504	16	21'-8"	2	19'-7"	2'-6"	0			2488
P14505	16	21'-5"	2	19'-4"	2'-6"	0			2621
P14506	14	22'-2"	2	20'-1"	2'-6"	0			2374
P14507	14	21'-10"	2	19'-9"	2'-6"	0			2398
P14508	16	21'-5"	2	19'-4"	2'-6"	0			2290
P14509	14	21'-10"	2	19'-9"	2'-6"	0			2358
P14510	14	21'-8"	2	19'-7"	2'-6"	0			2321
P14511	14	20'-11"	2	18'-10"	2'-6"	0			2240
P14512	14	20'-4"	2	18'-3"	2'-6"	0			2178
P14513	16	21'-3"	2	19'-2"	2'-6"	0			2601
P14514	16	20'-10"	2	18'-9"	2'-6"	0			2550
P14515	16	20'-2"	2	18'	2'-6"	0			2468
P14516	14	25'-1"	2	23'-0"	2'-6"	0			2686
P14517	14	24'-7"	2	22'-6"	2'-6"	0			2633
P14518	14	23'-10"	2	21'-9"	2'-6"	0			2555
P14519	14	23'-1"	2	21'-0"	2'-6"	0			2472
P14520	14	24'-1"	2	22'-0"	2'-6"	0			2579
P14521	14	23'-1"	2	21'-0"	2'-6"	0			2472
P14522	14	22'-8"	2	20'-7"	2'-6"	0			2425
P1101	11	28'-6"	Str.						1666
P1102	33	23'-10"	Str.						4179
P1103	11	29'-5"	Str.						1719
P1104	11	27'-10"	Str.						1627
P1105	18	30'-8"	Str.						3098
P1106	36	23'-10"	Str.						4559
P1107	18	29'-9"	Str.						2845
P1108	18	31'-6"	Str.						3586
P1109	28	36'-8"	2	33'-6"	3'-6"	0			5455
P1110	14	23'-10"	Str.						1773
P1111	11	29'-8"	Str.						1734
P1112	22	24'-8"	Str.						2883
P1113	11	29'-4"	Str.						1714
P1114	11	28'-0"	Str.						1636
P1115	18	40'-2"	Str.						3841
P1116	18	24'-8"	Str.						2559
P1117	18	30'-2"	Str.						2885
P1118	18	37'-9"	Str.						3610
P1119	32	36'-1"	2	34'-11"	3'-6"	0			6425
P1120	11	27'-5"	Str.						1602
P1121	22	22'-9"	Str.						2659
P1122	11	29'-8"	Str.						1734
P1123	11	27'-2"	Str.						1588
P1124	18	37'-0"	Str.						3538
P1125	18	22'-9"	Str.						2176
P1126	18	29'-9"	Str.						2845
P1127	18	36'-7"	Str.						3499
P1128	32	34'-11"	2	31'-9"	3'-6"	0			5936
P1001	12	15'-10"	2	12'-8"	3'-6"	0			818
P1002	12	35'-2"	2	32'-0"	3'-6"	0			1825
P1003	20	21'-1"	Str.						1374
P1004	66	23'-6"	Str.						5665

PIERS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1005	12	15'-10"	2	12'-8"	3'-6"	0			818
P1006	12	35'-4"	2	32'-2"	3'-6"	0			1824
P1007	20	21'-1"	Str.						1814
P1008	82	23'-4"	Str.						4398
P1009	12	15'-7"	2	12'-5"	3'-6"	0			805
P1010	12	34'-5"	2	31'-3"	3'-6"	0			1777
P1011	28	20'-6"	Str.						1764
P1012	42	22'-4"	Str.						4036
P901	379	9'-6"	Str.						12,242
P501	360	5'-7"	2	1'-7"	3'-8"	1'-7"			2096
P502	36	7'-6"	6	1'-7"	4'-2"	2'-8"			275
P503	6	28'-1"	Str.						176
P504	1260	8'-9"	2	3'-8"	1'-0"	3'-8"			11499
P505	260	9'-3"	2	3'-8"	2'-8"	3'-8"			2441
P506	4	20'-3"	Str.						84
P507	379	9'-6"	Str.						3755
P508	4	32'-5"	Str.						135
P509	4	20'-3"	Str.						85
P510	4	29'-6"	Str.						123
P511	4	19'-8"	Str.						82
SP401	1	13'-1"	13	4½"	41	2'-8"			266
SP402	1	12'-8"	13	4½"	40	2'-8"			261
SP403	1	13'-5"	13	4½"	39	2'-8"			257
SP404	1	13'-1"	13	4½"	38	2'-8"			251
SP405	1	12'-10"	13	4½"	38	2'-8"			246
SP406	1	13'-6"	13	4½"	39	2'-8"			258
SP407	1	13'-2"	13	4½"	39	2'-8"			252
SP408	1	12'-10"	13	4½"	38	2'-8"			246
SP409	1	13'-5"	13	4½"	39	2'-8"			257
SP410	1	12'-10"	13	4½"	37	2'-8"			246
SP411	1	12'-3"	13	4½"	36	2'-8"			236
SP412	1	11'-9"	13	4½"	35	2'-8"			227
SP413	1	12'-9"	13	4½"	37	2'-8"			245
SP414	1	12'-1"	13	4½"	36	2'-8"			233
SP415	1	11'-5"	13	4½"	34	2'-8"			221
SP416	1	16'-1"	13	4½"	47	2'-8"			305
SP417	1	15'-7"	13	4½"	45	2'-8"			296
SP418	1	15'-0"	13	4½"	43	2'-8"			285
SP419	1	14'-5"	13	4½"	42	2'-8"			275
SP420	1	15'-6"	13	4½"	45	2'-8"			294
SP421	1	14'-8"	13	4½"	43	2'-8"			278
SP422	1	13'-10"	13	4½"	41	2'-8"			264
Total									204 211

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximately 0.80 lbs per lin ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example A506 is a No.5 size bar and P1101 is a No.11 size bar.

221-23

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE Nº FRA-270-2645N
under Southbound USR-62

FRANKLIN COUNTY TR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	RECORD
M.G. July '70	J.F.		N.L.K. July '70	J.F.	9/25/70	70-57

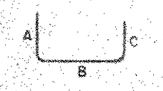
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

362
495

FRA-270-25.39 N
FRA-62-20.85



TYPE 1



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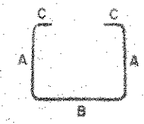

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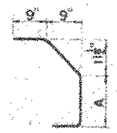
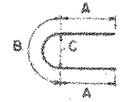


TYPE 4



TYPE 5



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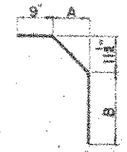


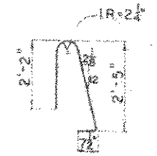
TYPE 7



TYPE 8



TYPE 9



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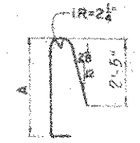


TYPE 11



TYPE 12

1711 SUPERSTRUCTURE (LEFT BRIDGE)

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
3701	(1402)	31'-0"	Str.						11097 — (1400)
3702	96	1'-0"	Str.						216
3703	(1402)	21'-6"	Str.	3½					11702 — (1400)
3901	20	34'-0"	Str.						2169
3902	15	40'-0"	Str.						907
3903	15	41'-11"	Str.						981
3904	6	21'-3"	Str.						252
3905	9	20'-0"	Str.						351
3906	2 sets of 19	27'-5 to 29'-6	Str.	1'-2½	Increments				935
3907	2 sets of 20	29'-11 to 31'-6	Str.	10½	Increments				1271
3908	2 sets of 21	29'-0 to 31'-5	Str.	9½	Increments				1594
3909	2 sets of 14	26'-6 to 28'-5	Str.	1⅛	Increments				877
3910	2 sets of 18	13'-0 to 29'	Str.	⅞	Increments				3390
3911	2 sets of 17	21'-8 to 23'-8	Str.	1'-0"	Increments				1420
3912	2 sets of 20	24'-6 to 26'-6	Str.	1'-0"	Increments				901
3913	52	26'-0"	Str.						2106
3914	102	26'-6"	Str.						1720?
3915	108	28'-0"	Str.						4540
3916	110 (2)	30'-0"	Str.						75486 — (1400)
3917	16	27'-0"	Str.						649
3501	230	5'-4	10						1279
3502	476	2'-0	2	7½	1'-0	7½			993
3503	230	2'-2	2	1'-8	7½	0			520
3504	246	1'-10	2	7½	10	7½			470
3505	246	1'-6	Str.						1112
3506	72	14'-8	Str.						1101
3507	40	7'-0	Str.						299
#12	13	31'-0 (2)	16						140 — (1400)
#12	6	31'	Str.						70

TOTAL

SUPERSTRUCTURE (RIGHT BRIDGE)

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
3001	(1402)	30'-0"	Str.	1086					48938 — (1400)
3002	1130	35'-8"	Str.						60857
3003	2 sets of 39	35'-0 to 41'-6"	Str.	9⅝	Increments				2314
3004	2 sets of 30	33'-3 to 35'-9"	Str.	11⅝	Increments				1767
3005	16	4'-0"	Str.						84
3006	186	21'-6"	Str.						0846
3501	240	5'-4	10						1368
3502	496	2'-0	2	7½	1'-0	7½			1026
3503	246	2'-2	2	1'-8	7½	0			556
3504	240	1'-10	2	7½	10	7½			470
3505	240	6'-6	Str.						1668
3507	76	14'-4	Str.						1134
3508	46	7'-0	Str.						350
3511	246	9'-2	4	0	9½				813
3512	14	9'-7	16						140 — (1400)
3513	8	9'-1	Str.						26

TOTAL 395087 — (1400)

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT

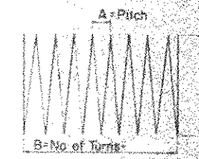
TOTAL

REPLACEMENT BARS

RE1250	2	9'-3	2						
RE1101	5	6'-7	Str.						
RE1001	2	8'-3"	2						
RE901	1	7'-10"	Str.						
RE801	1	7'-6	Str.						
RE706	1	7'-1	2	9	5'-3				
RE601	17	6'-11	2						
RE501	3	6'-7"	2						
RE401	1	6'-2	14	6'-3	14"				



TYPE 14



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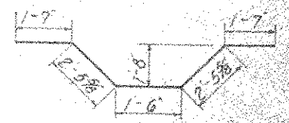

TYPE 16

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, ties or angle spacers, weighing approximately 0.60 lbs. per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers based on 0.60 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example A506 is a No. 5 size bar and P101 is a No. 11 size bar.

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COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE No. FRA-270-2648N
under Southbound USR-62

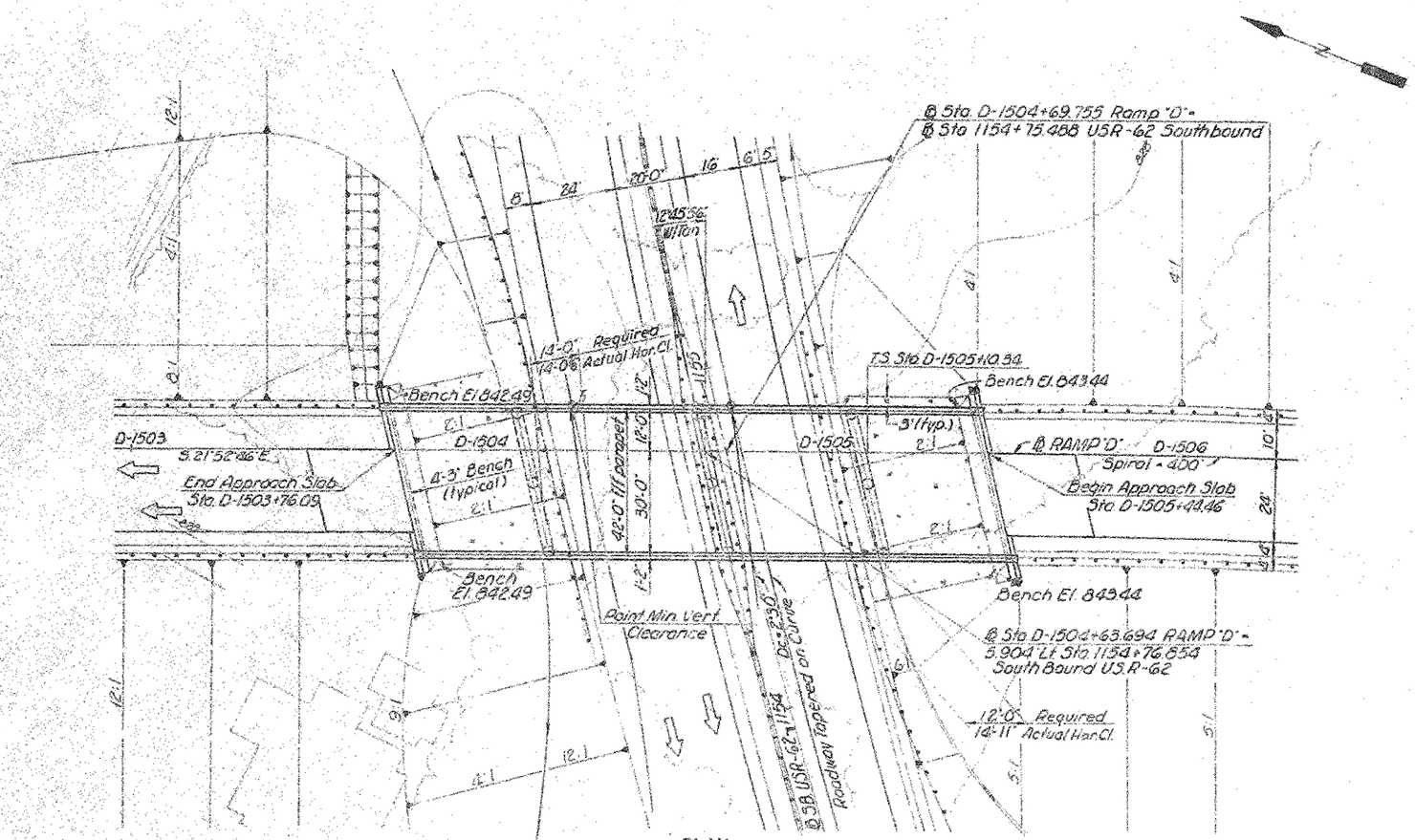
FRANKLIN COUNTY — FR-270

DESIGNED	DRAWN	CHECKED	CHECKED	REVIEWED	DATE	SHT. NO.
	J.P.		NLA 3-16-10	JP 3-16-10		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

363
495

FRA-270-25.39N
FRA-62-20.83

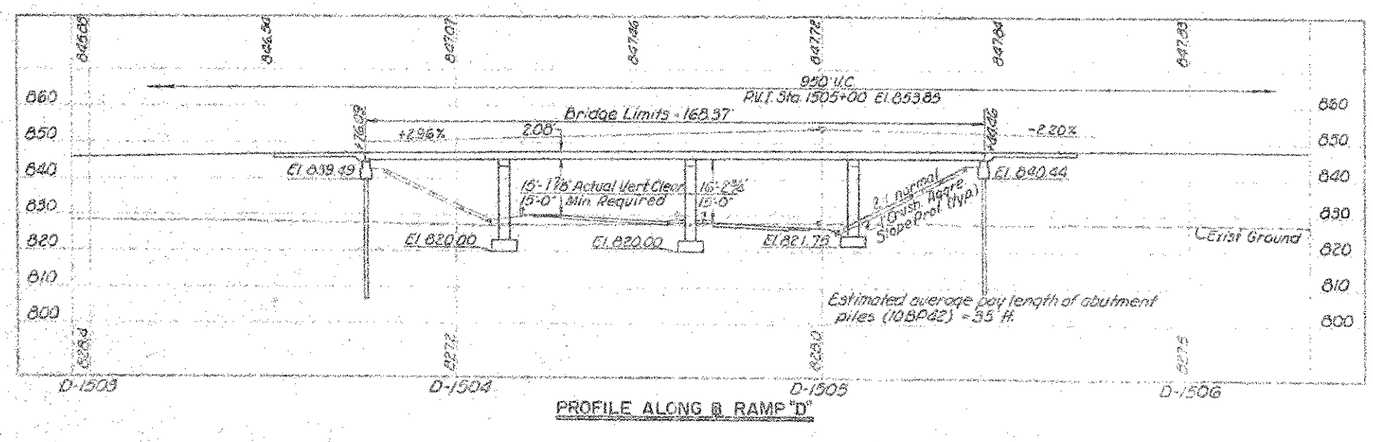


PLAN

Earthwork limits shown are schematic. Actual slope placement shall conform to plan cross sections.

SB. U.S.R.-62
HORZ. CURVE DATA
P.I. Sta. 1157+47.88
Δ = 38°27'39"
D_c = 2°30'
R = 2291.83'
L = 1538.43'
T = 799.46'
E = 135.44'

RAMP "D"
HORZ. CURVE DATA
P.I. Sta. D-1507+77.35
L_s = 400.00
D_c = 4°30'
R_c = 1273.24
θ_s = 9°00'
P = 5.23'
L_c = 399.56'
K = 199.84
X = 399.01
Y = 20.91



PROFILE ALONG ℄ RAMP "D"

PROPOSED STRUCTURE

TYPE: Continuous Reinforced Conc. Slab with Reinforced Concrete Substructures
SPANS: 36'-0"; 50'-10"; 44'-6"; 35'-6"
ROADWAY: 42'-0" f/f parapets
LOADING: HS 20-44
WEARING SURFACE: 1" monolithic concrete
SKEW: 12°45'56" R.F. (with tangent)
APPROACH SLAB: AS-1-67 (25'-0" long)
ALIGNMENT: Tangent and Spiral
SUPERELEVATION: Variable
AVERAGE DAILY TRAFFIC: 7921 (1973)

FRANKLIN ENGINEERING, LIMITED
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SITE PLAN

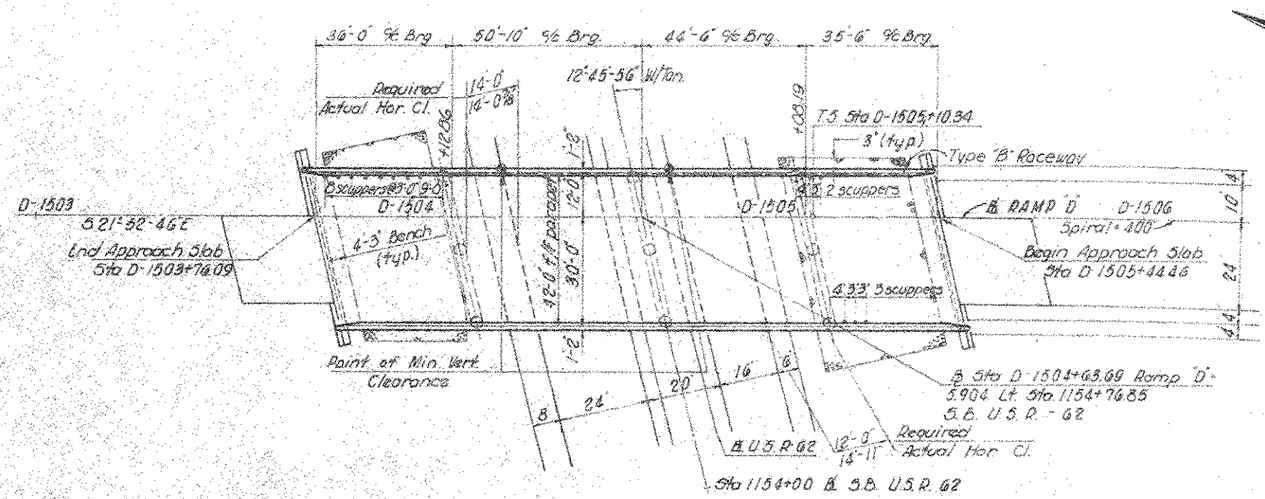
BRIDGE No. FRA-62-2181
Southbound USR-62
under RAMP "D"

FRANKLIN COUNTY FR-270

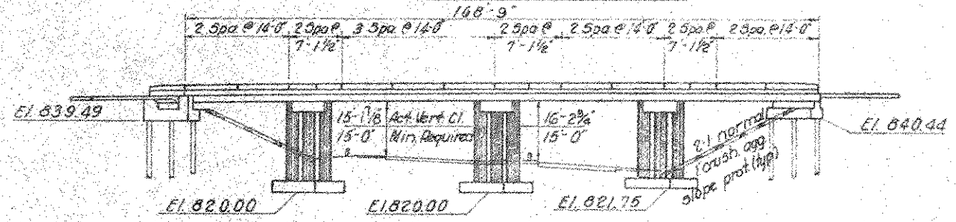
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	[illegible]			[illegible]	9/18/79	

FED. NO. DIVISION	STATE	PROJECT		364 415
2	OHIO			

FRA-270-25.39 N
FRA-62-20.83



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT.	PIERS	GEN'L.
503	570	C.Y.	Unclassified Excavation		116	454	
505	Lump	Sum	First Test Pile				
507	560	L.F.	Steel H Piles 10BP42		560		
509	Lump Sum	Lump Sum	Cofferdams, Cribs and Sheeting				Lump Sum
509	~~169615~~ 173245	lbs.	Reinforcing Steel	~~19220~~ 117197	5806	~~50242~~ 50242	
511	543	C.Y.	Class "C" Concrete, Superstructure	543			
511	84	C.Y.	Class "C" Concrete Piers above footing			84	
511	131	C.Y.	Class "C" Concrete Pier Footing			131	
511	51	C.Y.	Class "C" Concrete Abutments		51		
516	10	S.F.	½" Preformed Expansion Joint Filler		10		
518	13	Each	Scuppers 6" ϕ (Alloy Steel 70711)	13			
518	20	C.Y.	Porous Backfill		20		
518	104	L.F.	6" Perf. Helical Corrugated Metal Pipe, including specials (70701)		104		
518	32	L.F.	6" Non-Perforated Helical Corrugated Metal Pipe (70701)		32		
601	460	S.Y.	Crushed Aggregate Slope Protection				460
808	543	Units	Chemical Admixture for Concrete Types A, B or D	543			
625			For 625 Lighting Items, see Sheet № 302				

GENERAL NOTES

REFERENCE shall be made to Standard Drawing BS-1-67 (rev. 6-12-69) and Supplemental Specifications 836 (dated 6-17-69) & 808 (dated 11-14-69).

DESIGN SPECIFICATIONS: This bridge conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1969, including the Ohio "Supplement to these Specifications".

DESIGN DATA:

Design Loading	HS 20-44
Concrete, Class "C"	Unit Stress 1200 p.s.i. for Superstructure Unit Stress 1333 p.s.i. for Substructure
Reinforcing Steel	ASTM A615, A616, or A617, Unit Stress 20,000 p.s.i. Spiral Reforcement shall be plain bars ASTM A306 or A499.

EMBANKMENT CONSTRUCTION: The embankments shall be constructed to the level of subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments, the benches and for the rear & forward piers.
If soft areas are encountered, they shall be removed and replaced with a compacted granular material.

ABUTMENT EXCAVATION QUANTITY, in addition to 503.10, includes the removal of embankment above bench.

PILES shall be driven to a minimum bearing capacity of 95 tons per pile for the abutments.
FOUNDATION BEARING PRESSURE: Pier footing are designed for a maximum bearing pressure of 2 tons per square foot.

UTILITY LINES: All expences involved in relocating the affected utility lines shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconveniences to either would be held to a minimum.

FOR LIGHTING DETAILS not shown, see sheet no. 309 and Standard Construction Drawing HL-4.

FRANKLIN ENGINEERING, LIMITED
COLUMBUS — Consulting Engineers

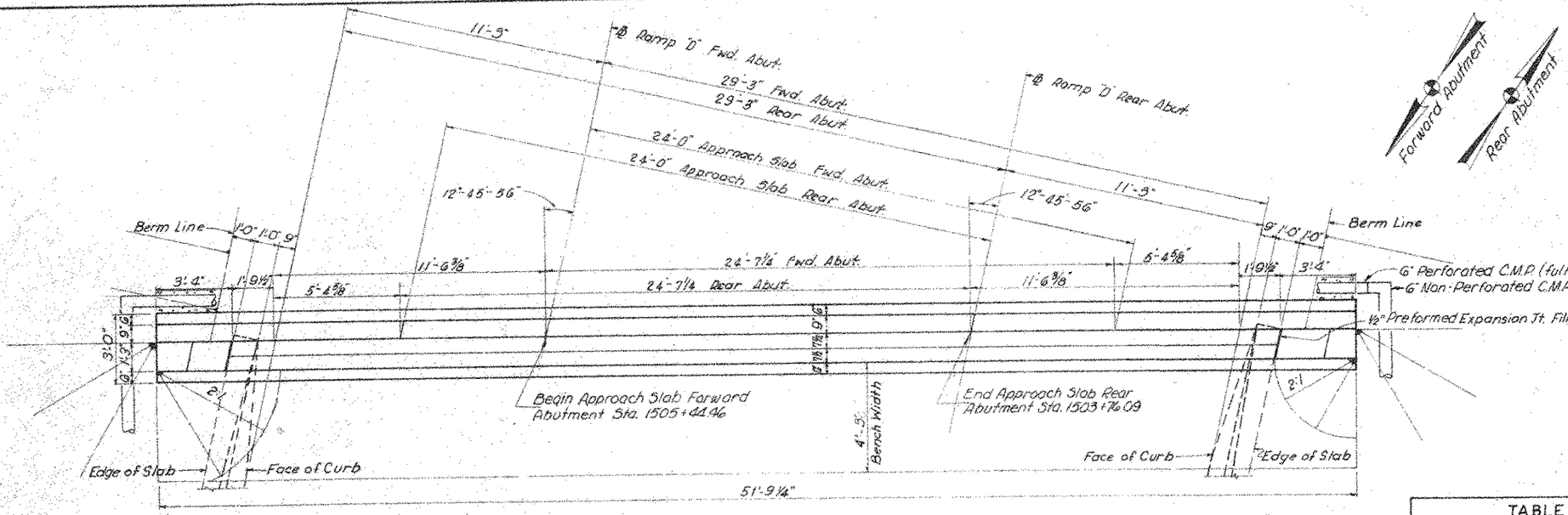
GENERAL PLAN, ELEVATION NOTES AND ESTIMATED QUANTITIES
BRIDGE No. FRA-62-2181
Southbound U.S.R-62 under RAMP "D"
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
W.C. 6-25-70	P.D.		D.A.W.	JK	6-25-70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

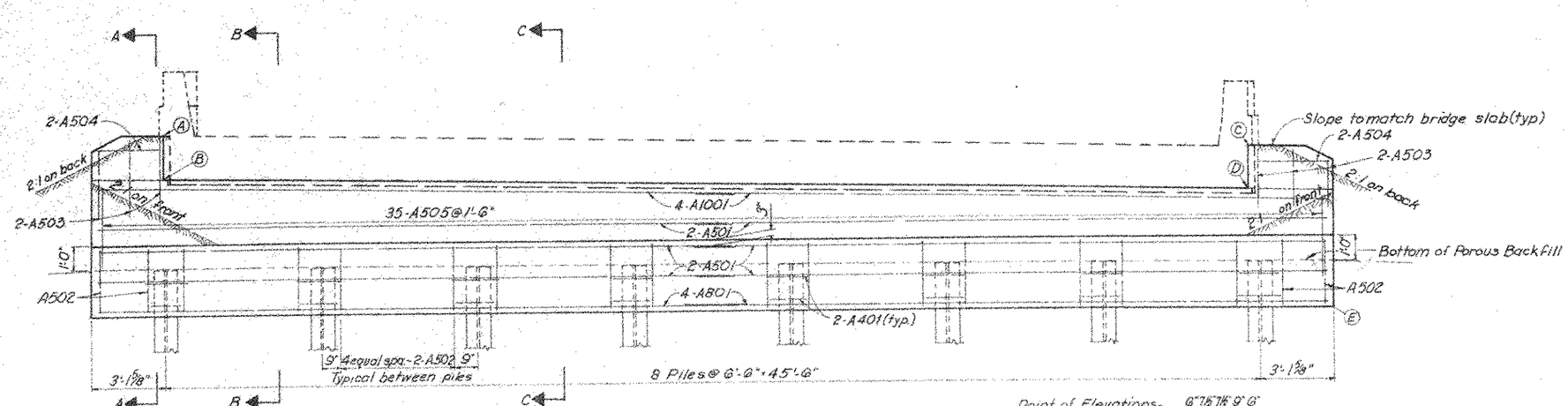
365
495

FRA-270-25.39N
FRA-62-20.83

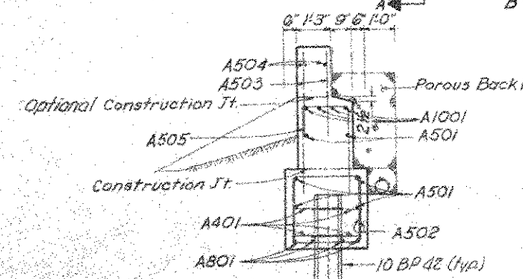


PLAN

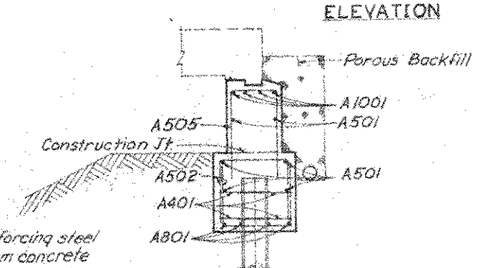
TABLE OF ELEVATIONS					
	A	B	C	D	E
Rear Abutment	847.40	845.57	846.82	844.49	839.49
Fwd. Abutment	847.43	845.60	847.27	845.44	840.44



ELEVATION

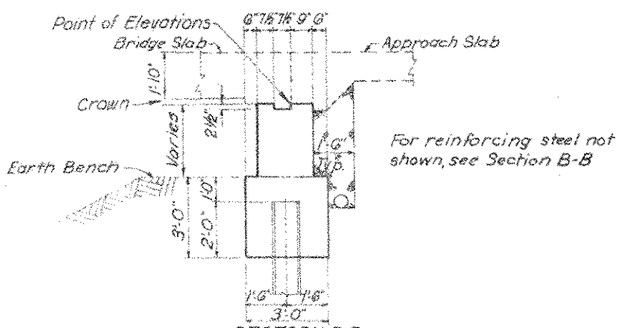


SECTION A-A



Note: All footing reinforcing steel clearances are 3" from concrete surfaces.

SECTION B-B



For reinforcing steel not shown, see Section B-B

SECTION C-C

3/7

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COLUMBUS, OHIO

ABUTMENTS

BRIDGE No. FRA-62-2181
SOUTHBOUND USR-62
under RAMP "D"

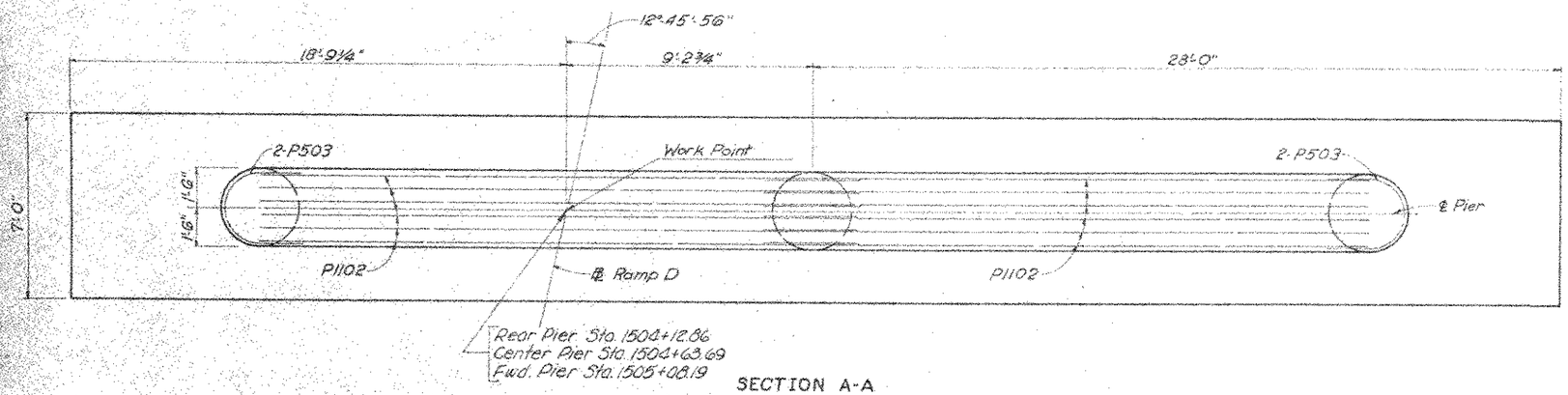
FRANKLIN COUNTY I.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.C. D.V.	FDS	FDS	M.C.	JF	5/23/76	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

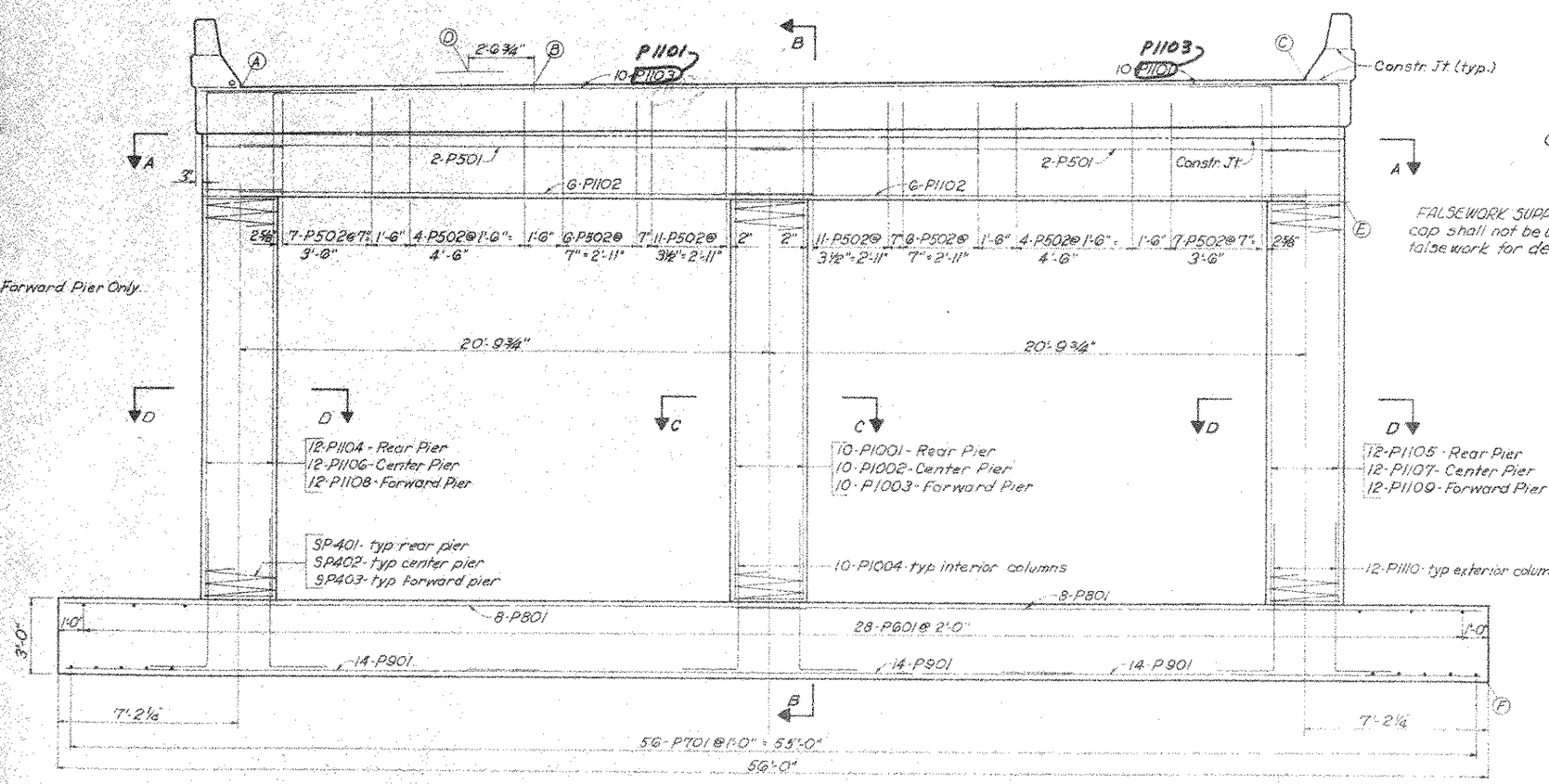
366
495

FRA-270-25.39 N
FRA- 62 - 20.83



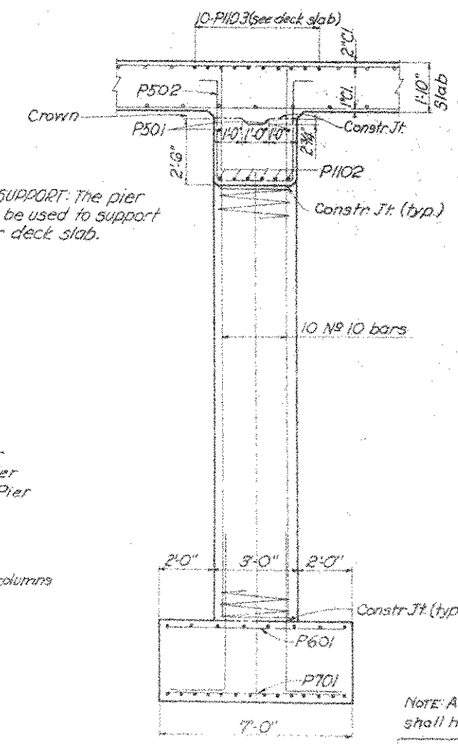
SECTION A-A
(Bottom Steel Shown)

TABLE OF ELEVATIONS						
LOCATION	A	B	C	D	E	F
Rear Pier	846.68	847.19	847.70	847.14	842.35	820.00
Center Pier	847.06	847.55	847.83	847.51	842.73	820.00
Forward Pier	847.31	847.75	847.54	847.76	842.98	821.75



PLAN

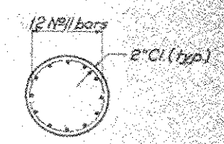
FALSEWORK SUPPORT: The pier cap shall not be used to support false work for deck slab.



SECTION B-B



SECTION C-C



SECTION D-D

NOTE: All reinforcing steel in the footing shall have a 3" minimum cover.

4 | 7

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COLUMBUS, OHIO

PIERS

BRIDGE Nº FRA-62-2181
SOUTHBOUND USR-62
under RAMP "D"

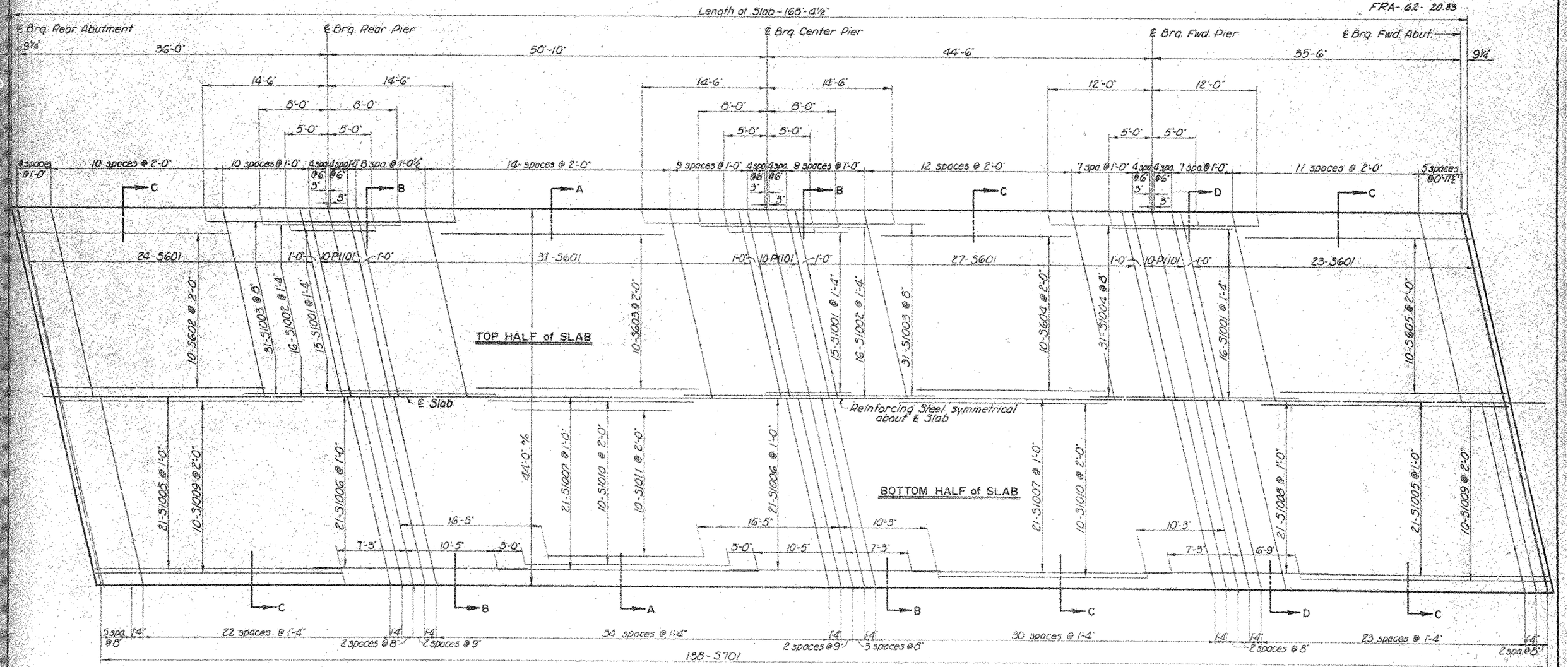
FRANKLIN COUNTY TR-210

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
D.N.	FBS	FBS	M.G.	JF	5/25/76

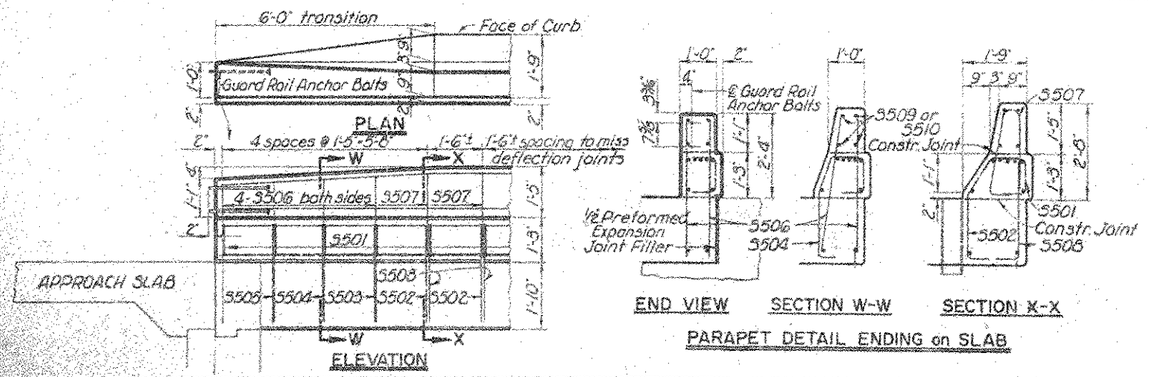
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

367/195

FRA-270-25.39N
FRA-62-20.83



DECK SLAB PLAN



PARAPET DETAIL ENDING on SLAB

CAMBER of 1/800 of the span shall be provided in each span in addition to any required for conformance with the profile of the highway to allow for dead load deflection. This is the amount of camber required before falsework is released. To obtain this, proper allowance shall be made for the deflection of falsework members. The following is a table of the maximum dead load deflection per span.

SPAN	36'-0"	50'-10"	44'-6"	35'-6"
CAMBER	9/16	3/4"	11/16"	9/16"

Note: For Reinforcing Bars in Parapets, see transverse cross-section also.

5 | 7

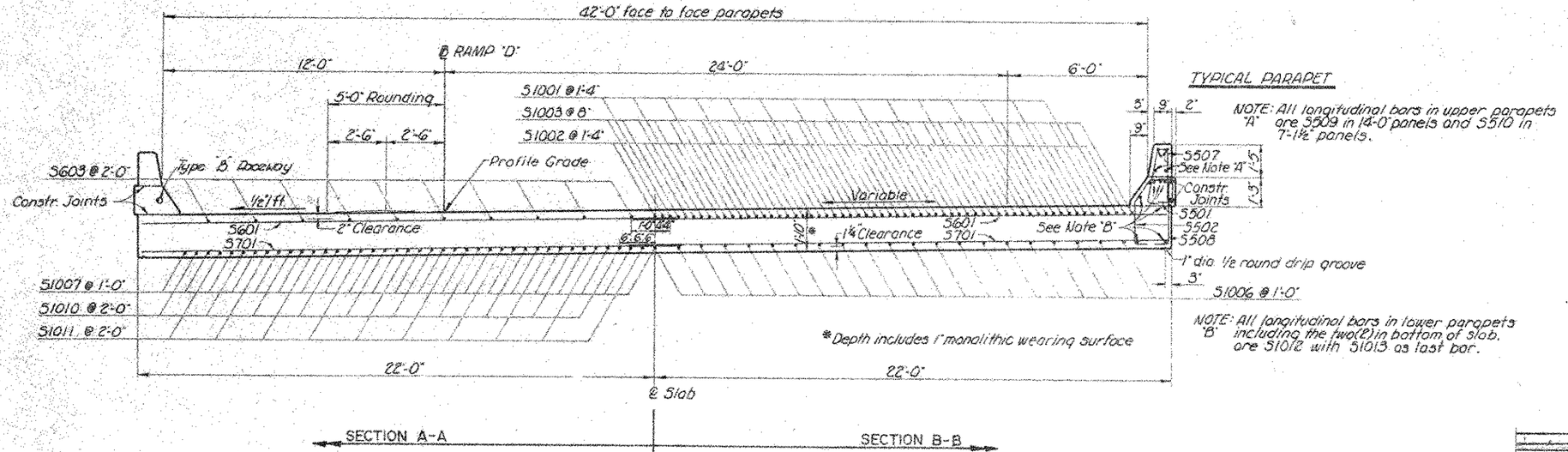
FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

DECK SLAB PLAN
BRIDGE No. FRA-62-2181
Southbound USR-62
under RAMP "D"

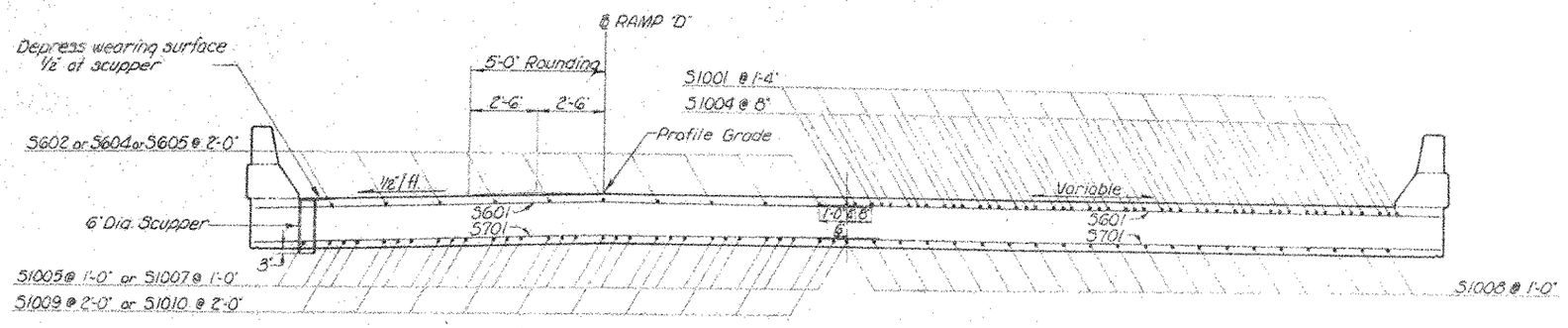
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.N.	[signature]		M.C.	[signature]	1/25/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83



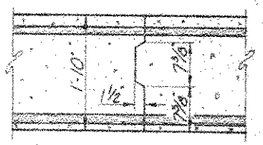
TRANSVERSE SECTIONS



TYPICAL PARAPET

NOTE: All longitudinal bars in upper parapets "A" are S509 in 14'-0" panels and S510 in 7'-1½" panels.

NOTE: All longitudinal bars in lower parapets "B" including the two(2) in bottom of slab, are S1012 with S1013 as last bar.



CONSTRUCTION JOINT DETAIL

An Optional Construction Joint in the bridge slab may be placed on the transverse centerline of the middle span or 1'-0"± off the transverse centerline, if necessary to miss transverse reinforcing bars. One longitudinal joint on the centerline of lanes will be permitted. A horizontal construction joint shall be placed between each curb and the top of slab.

CURBS shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to attain full deadload deflection.

6

FRANKLIN ENGINEERING, LIMITED
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COLUMBUS, OHIO

TRANVERSE SECTIONS

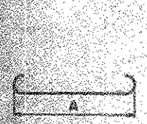
BRIDGE No. FRA-62-2181
Southbound USR-62
under RAMP "D"

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
D.N			H.G		

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83



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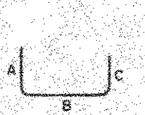

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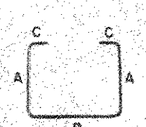

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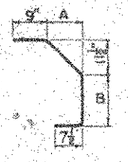

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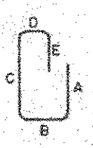

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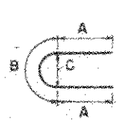

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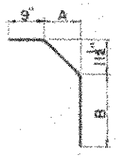

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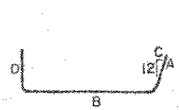

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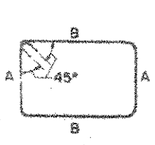

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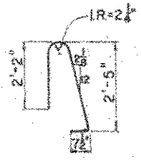

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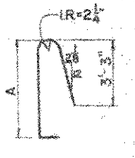


TYPE 11



TYPE 12

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A1001	16	27'-6"	5H						1893
A1301	16	27'-0"	5H						1163
A1501	24	26'-6"	5H						663
A1502	156	6'-7"	2	2'-1"	2'-8"	2'-1"			1071
A1503	24	3'-3"	5H						81
A1504	8	3'-0"	5H						25
A1505	70	9'-5"	2	4'-0"	1'-8"	4'-0"			688
A401	64	5'-5"	2	1'-11"	1'-9"	1'-11"			232
								TOTAL	5816

PIERS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1101	30	30'-0"	5H						4782
P1102	36	24'-0"	5H						4590
P1103	30	17'-10"	5H						2842
P1104	12	26'-9"	2	3'-7"	23'-6"	0			1705
P1105	12	27'-9"	2	3'-7"	24'-6"	0			1749
P1106	12	27'-1"	2	3'-7"	23'-10"	0			1727
P1107	12	27'-11"	2	3'-7"	24'-8"	0			1780
P1108	12	25'-8"	2	3'-7"	22'-5"	0			1636
P1109	12	25'-10"	2	3'-7"	22'-7"	0			1647
P1110	72	7'-4"	2	0'-2"	1'-6"				2805
P1001	10	24'-0"	5H						1033
P1002	10	24'-4"	5H						1047
P1003	10	22'-10"	5H						988
P1004	30	6'-11"	2	5'-10"	1'-5"				893
P801	48	29'-0"	5H						3717
P701	168	6'-6"	5H						2232
P601	84	6'-6"	5H						820
P501	12	21'-8"	5H						271
P502	168	10'-10"	15	2'-8"	3'-8"	0'-8"			1898
P503	12	7'-4"	6	1'-7"	4'-2"	2'-8"			92
SP401	3	19'-4½"	13	4½"	55"	2'-8"			1089
SP402	3	19'-8¾"	13	4½"	56"	2'-8"			1109
SP403	3	18'-11⅛" 16'-2¼"	13	4½"	51" 52"	2'-8"			1123 1028
								TOTAL	50242 50337

SUPERSTRUCTURES

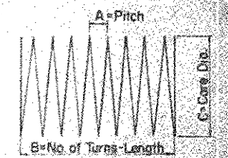
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
S1001	91	10'-0"	5H						3916
S1002	62	16'-0"	5H						4269
S1003	124	29'-0"	5H						15474
S1004	62	28'-0"	5H						6403
S1005	82	30'-9"	12	29'-4"					10850
S1006	82	24'-2"	5H						8527
S1007	82	30'-0"	5H						10585
S1008	41	20'-6"	5H						3616
S1009	40	30'-0"	12	28'-7"					5164
S1010	40	24'-0"	5H						4131
S1011	20	18'-0"	5H						1549
S1012	108 (52)	30'-0"	5H						13542 (10440)
S1013	18 (40)	7'-6"	5H						581 (452)
S601	210	23'-0"	5H						12.975
S602	210	23'-10"	5H						7202
S603	20	24'-0"	5H						721
S604	20	25'-8"	5H						771
S605	20	21'-10"	5H						656
S606	20	26'-0"	5H						781
S501	226	2'-0	2	7/8"	1'-0"	7½"			471
S502	212	4'-1	4	9"	1'-9"				902
S503	4	4'-0	4	6	1'-9"				17
S504	4	3'-11	4	4	1'-9"				16
S505	4	3'-10	4	2½	1'-9"				16
S506	32	9'-11	5H						131
S507	212	5'-4	10						1179
S508	212	3'-5	2	7½	2'-9"				719
S509	72	13'-8"	5H						1026
S510	24	6'-8"	5H						167
								TOTAL	117197

REPLACEMENT BARS

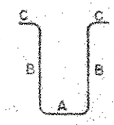
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
RE1101	2	8'-7"	5H						
RE1001	5	8'-3"	5H						
RE 901	1	7'-10"	5H						
RE 801	1	7'-6"	5H						
RE 701	1	7'-2"	5H						
RE 601	1	6'-11"	5H						
RE 501	1	6'-7"	5H						
RE 401	1	6'-3"	14	9'-3"	1'-4"				



TYPE 14



TYPE 13



TYPE 15

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximately 0.80 lbs. per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example: 4508 is a No.5 size bar and P1101 is a No.11 size bar.

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COLUMBUS, OHIO

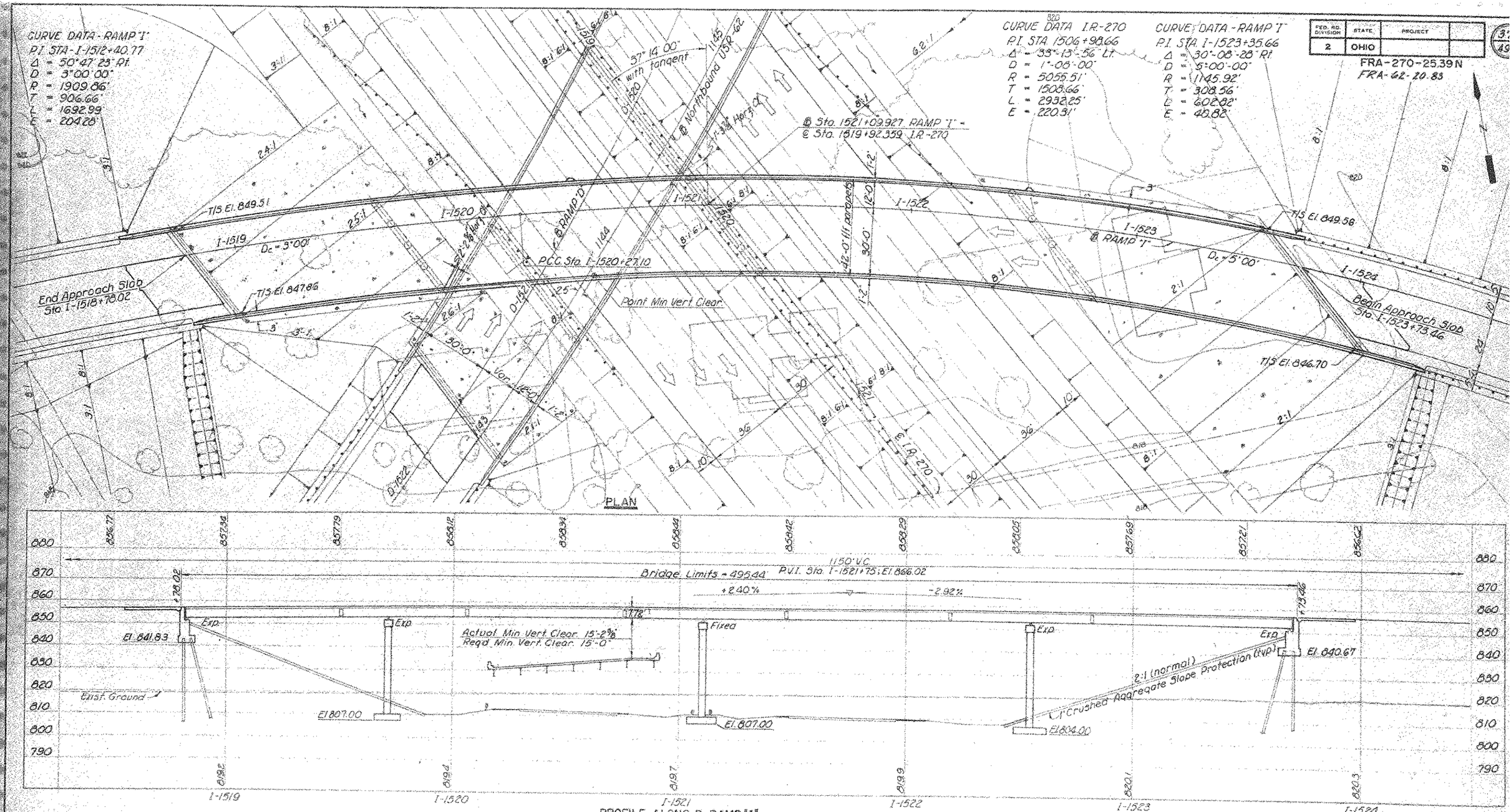
REINFORCING STEEL

BRIDGE NO. FRA-62-21.81
Southbound USR-62
under RAMP "D"

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	PROJECT
M.G.	F.G.		D.A.	J.F.	3/25/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83



EARTHWORK limits shown are schematic. Actual slopes shall conform to plan cross-sections.

Abutment Piles 12" Cast-in-Place Concrete Piles 35'-0 long

PROPOSED STRUCTURE

TYPE: Continuous Steel Girder Bridge with reinf. conc. deck & substructures
SPANS: 90'-4"; 139'-0"; 144'-6"; 115'-6" c/c brgs.
ROADWAY: 42'-0" face/face parapets
WEARING SURFACE: 1" monolithic concrete
SKEW: 37°-14'-00" R.F. with tangent
APPROACH SLAB: AS-1-67 (25'-0" long)
ALIGNMENT: 3°00'00" & 5°00'00" curves (rt)
SUPERELEVATION: Variable LOADING: HS20-44
AVERAGE DAILY TRAFFIC: 7573 (1973)

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

BRIDGE No. FRA-270-2667N under RAMP "I"

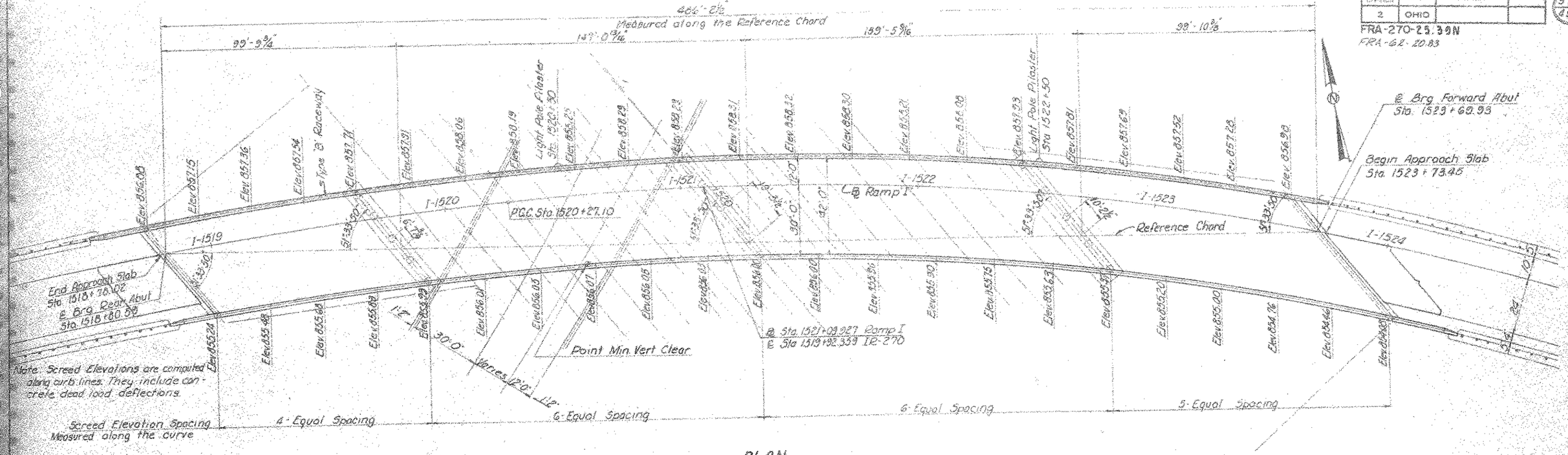
FRANKLIN COUNTY USR-2

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REV
HM	[illegible]			[illegible]	[illegible]	

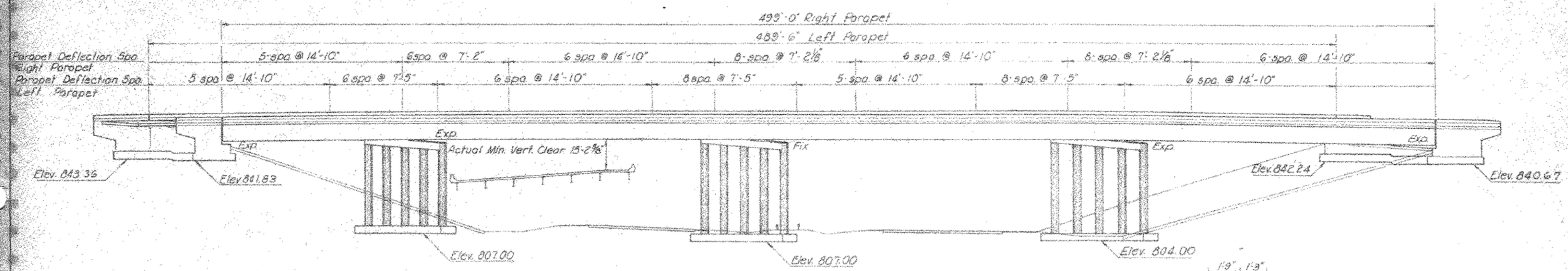
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

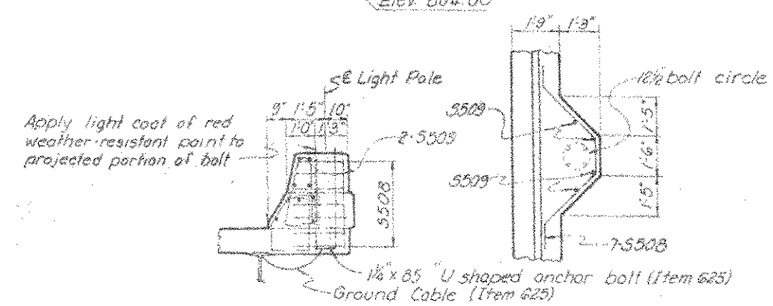
371
495



PLAN



ELEVATION



LIGHT POLE PILASTER

2/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GENERAL PLAN & SCREED ELEVATION
BRIDGE Nº FRA-270-2667N
UNDER
RAMP I
FRANKLIN COUNTY USR 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.				JH	4/9-70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N
FRA-62-20.83

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT.	GEN'L		
503	1207	Cu Yds	Unclassified Excavation		837	370			
503	Lump	Sum	Cofferdams, Cribs, and Sheeting				Lump		
505	Lump	Sum	First Test Pile				Lump		
507	1140	Lin Ft	12" Cast-in place concrete piles			1140			
509	394515 / 394744	Lbs	Reinforcing Steel	210,556 / 210,510	164,637 / 164,852	19,322			
511	264	Cu Yds	Class "C" Concrete, Abutment			264			
511	289	Cu Yds	Class "C" Concrete, Piers above Footings		289				
511	289	Cu Yds	Class "C" Concrete, Pier Footings		289				
511	688	Cu Yds	Class "C" Concrete, Superstructure	688					
513	1,045,192	Lbs	Structural Steel	1,045,192					
518	17	each	Scuppers, including Supports	17					
518	96	Cu Yds	Porous Backfill			96			
518	102	Lin Ft	6" Perf Helical Corrugated Metal Pipe, including Specials (707.01)			102			
518	105	Lin Ft	6" Non-Perforated Helical Corrugated Metal Pipe (707.01)			105			
601	2325	Sq Yds	Crushed Aggregate Slope Protection				2325		
808	688	units	Chemical Admixtures for Concrete, Type A, B or D	688					
514	1,045,192	Lbs	Field Painting of Structural Steel	1,045,192					
625			See Sheet 302 for Lighting Summary						

REFERENCE shall be made to Standard Drawings AS-1-67 (Rev. 6/12/69), RB-1-55 (2/2/59) SD-1-69 (Dated 6/12/69) Sheets 1, 2, 3, and 4 of 4, and Supplemental Specifications 808 (Dated 11/14/69), 811 (Dated 1/1/69) and 836 (Dated 6/17/69).

DESIGN SPECIFICATIONS

This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1969, including the Ohio "Supplement" to these specifications.

DESIGN DATA

Design Loading	HS 20-44
Concrete Class C	Unit Stress 1200 p.s.i. for Superstructure Unit Stress 1333 p.s.i. for Substructure
Structural Steel	ASTM A36, Unit Stress 20,000 p.s.i.
Reinforcing Steel	ASTM A615, A616 or A617, Unit Stress 20,000 p.s.i. Spiral reinforcement shall be plain bars ASTM A306 or A499.

EMBANKMENT CONSTRUCTION

The embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments, rear pier and forward pier.

PILES shall be driven to a minimum bearing capacity of 35 tons per pile for the abutments. The Contractor may prebore holes through the embankment before driving the abutment piles at his own option and expense.

FOUNDATION BEARING PRESSURE

Pier spread footings are designed for a maximum bearing pressure of 2.5 tons per square foot.

UTILITY LINES

All expense involved in relocating the affected utility lines shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

For Lighting Details not shown see sheet No. 309 and Standard Construction Drawing HL-4

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

ESTIMATED QUANTITIES & GENERAL NOTES
BRIDGE Nº FRA-270-2667N
UNDER
RAMP I
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
5/15/72	[illegible]		M.G. 4/19/72	[illegible]	4/18/72

FED. HWY. DIVISION	STATE	PROJECT		
2	OHIO			

FRA-270-25.39N
FRA-62-20.83

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT.	GEN'L.		
203	1207	Cu Yds	Unclassified Excavation		637	570			
503	Lump	Sum	Cofferdams, Cribs, and Sheeting				Lump		
505	Lump	Sum	First Test Pile				Lump		
507	1140	Lin Ft	12" Cast-in place concrete piles			1140			
509	394 744	Lbs	Reinforcing Steel	210,570	164,852	19,322			
511	264	Cu Yds	Class "C" Concrete, Abutment			264			
511	289	Cu Yds	Class "C" Concrete, Piers above Footings		289				
511	289	Cu Yds	Class "C" Concrete, Pier Footings		289				
511	688	Cu Yds	Class "C" Concrete, Superstructure	688					
513	1045 192	Lbs	Structural Steel	1045 192					
518	17	each	Scuppers, including Supports	17					
518	96	Cu Yds	Porous Backfill			96			
518	102	Lin Ft	6" Perf. Helical Corrugated Metal Pipe, including Specials (70701)			102			
518	105	Lin Ft	6" Non-Perforated Helical Corrugated Metal Pipe (70701)			105			
601	2525	Sq Yds	Crushed Aggregate Slope Protection				2525		
805	688	units	Chemical Admixtures for Concrete, Type A, B or D	688					
514	1045 192	Lbs	Field Painting of Structural Steel	1045 192					
625			See Sheet 302 for Lighting Summary						

REFERENCE shall be made to Standard Drawings AS-1-67 (Rev. 6/12/69), RB-1-55 (2/2/59) SD-1-69 (Dated 6/12/69) Sheets 1, 2, 3, and 4 of 4, and Supplemental Specifications 808 (Dated 11/14/69), 811 (Dated 1/1/69) and 836 (Dated 6/17/69).

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Concrete Class C	Unit Stress 1200 p.s.i. for Superstructure Unit Stress 1333 p.s.i. for Substructure
Structural Steel	ASTM A36, Unit Stress 20,000 p.s.i.
Reinforcing Steel	ASTM A615, A616 or A617, Unit Stress 20,000 p.s.i. Spiral reinforcement shall be plain bars ASTM A306 or A499.

EMBANKMENT CONSTRUCTION

The embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments, rear pier and forward pier.

PILES shall be driven to a minimum bearing capacity of 35 tons per pile for the abutments. The Contractor may prebore holes through the embankment before driving the abutment piles, at his own option and expense.

FOUNDATION BEARING PRESSURE

Pier spread footings are designed for a maximum bearing pressure of 2.5 tons per square foot.

UTILITY LINES

All expense involved in relocating the affected utility lines shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

For Lighting Details not shown see sheet No. 309 and Standard Construction Drawing HL-6

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

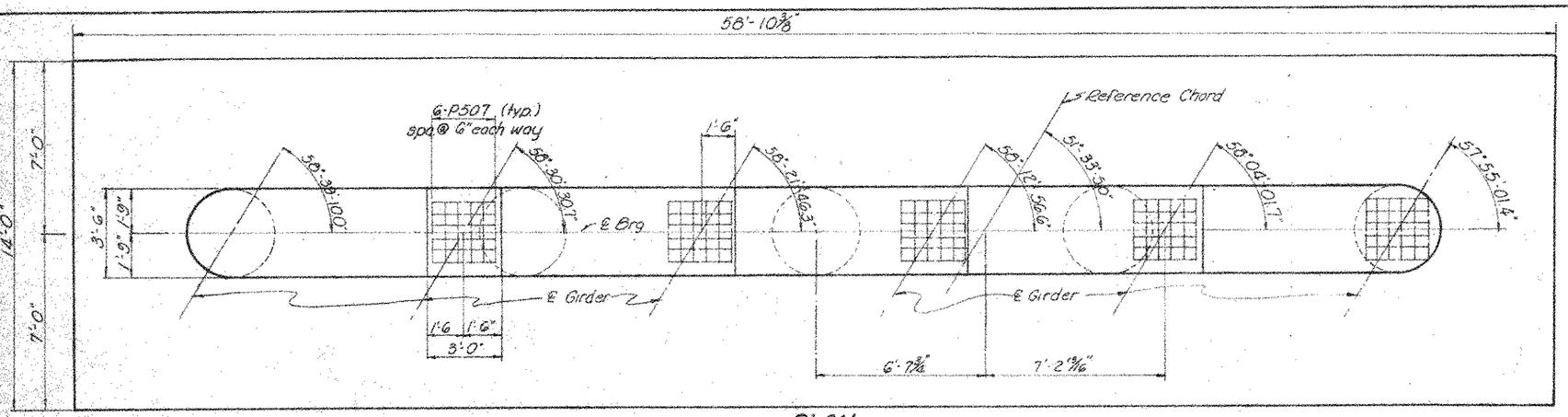
ESTIMATED QUANTITIES & GENERAL NOTES
BRIDGE N° FRA-270-2667N
UNDER
RAMP I
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	SHEET NO.
3/15/70			4/15/70		4/15/70	

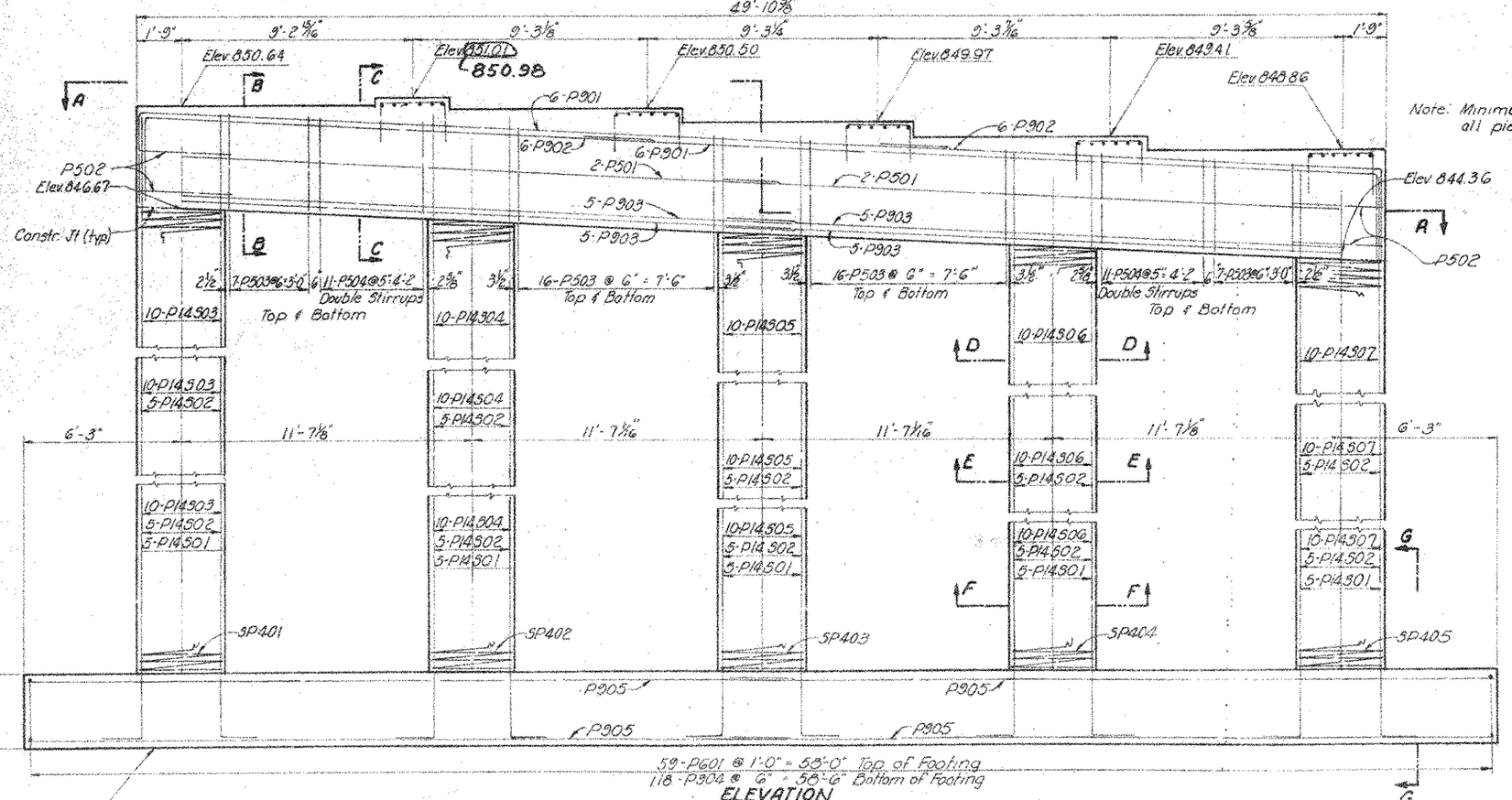
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

373
495

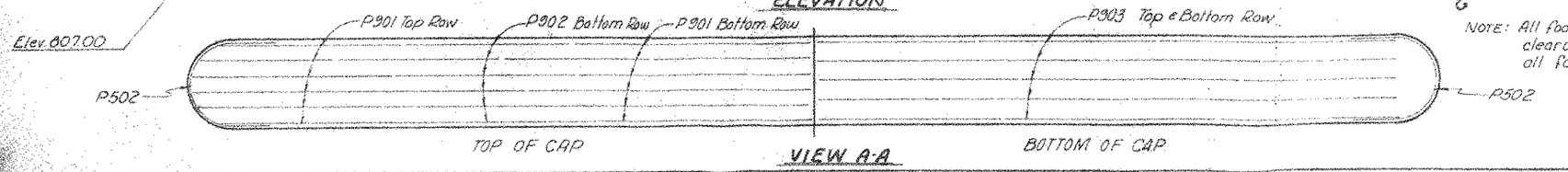
FRA. 270 - 25.99 N
FRA-62-20.83



PLAN

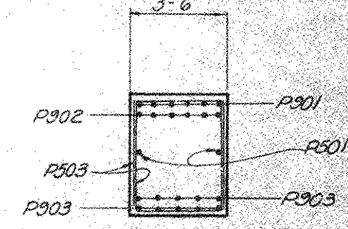


ELEVATION

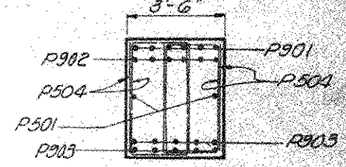


VIEW A-A

Note: Minimum depth of 4 feet for all pier caps



SECTION B-B



SECTION C-C



- P14503, P14504, P14505, P14506 & P14507
- P14502
- P14501

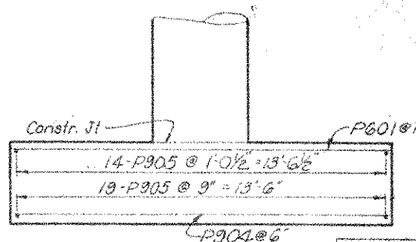
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

NOTE: All footing Reinforcing Steel shall have 3" clearance from all concrete surfaces (typical all footings)

4/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR PIER

BRIDGE Nº FRA-270-[illegible]
UNDER
RAMP I

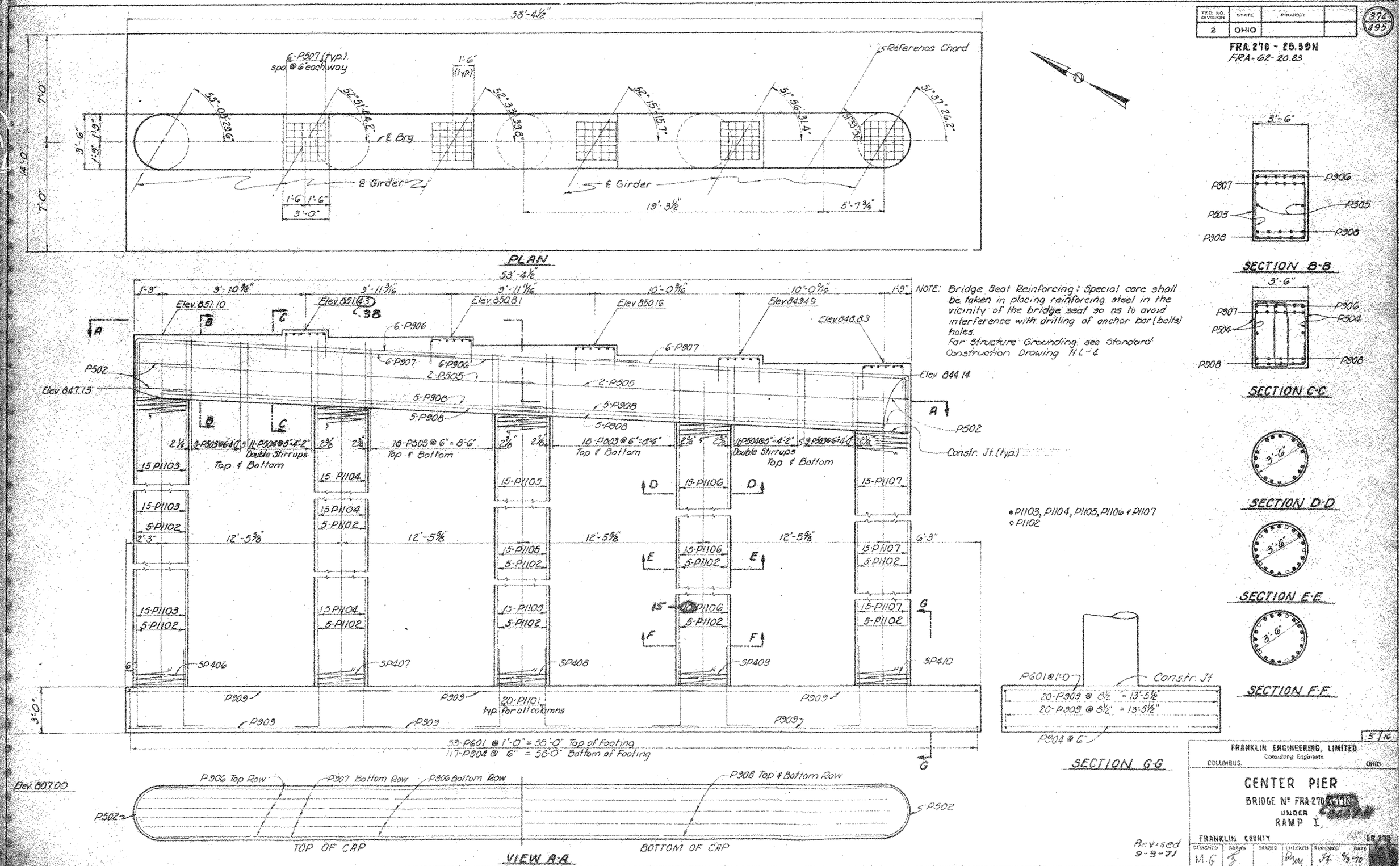
FRANKLIN COUNTY — USR 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G.	[illegible]		[illegible]	[illegible]	4/3-70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

374
495

FRA.270 - 25.39N
FRA-62-20.83



NOTE: Bridge Seat Reinforcing: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with drilling of anchor bar (bolts) holes.
For Structure Grounding see Standard Construction Drawing HL-4

• P1103, P1104, P1105, P1106 & P1107
○ P1102

Revised 9-3-71

5/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

CENTER PIER
BRIDGE Nº FRA-270-25.39N
UNDER
RAMP I

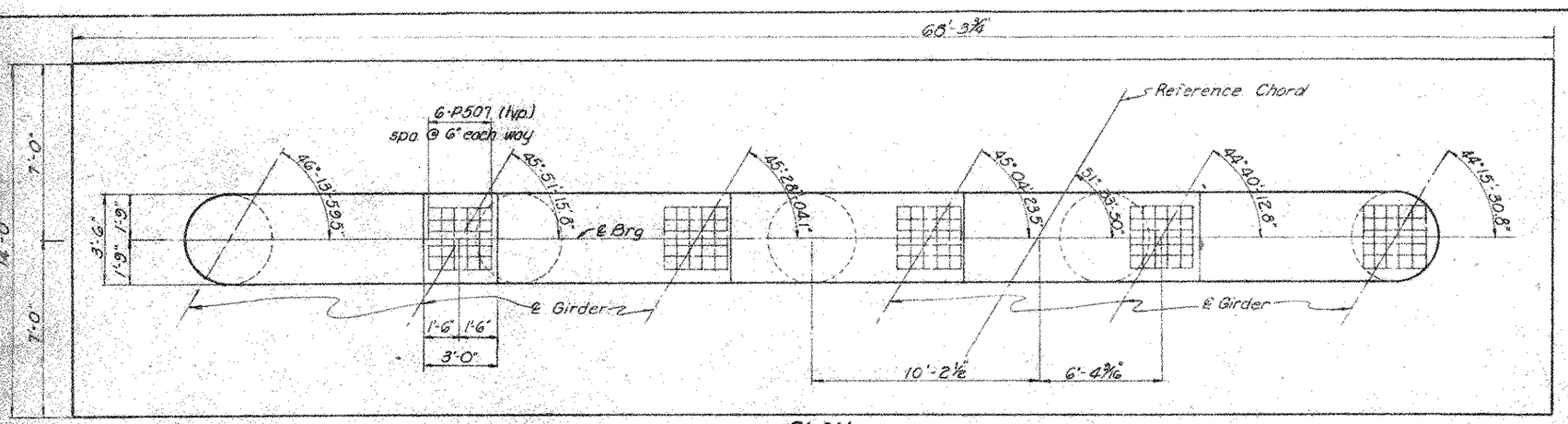
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G	[illegible]		[illegible]	[illegible]	9/3-70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

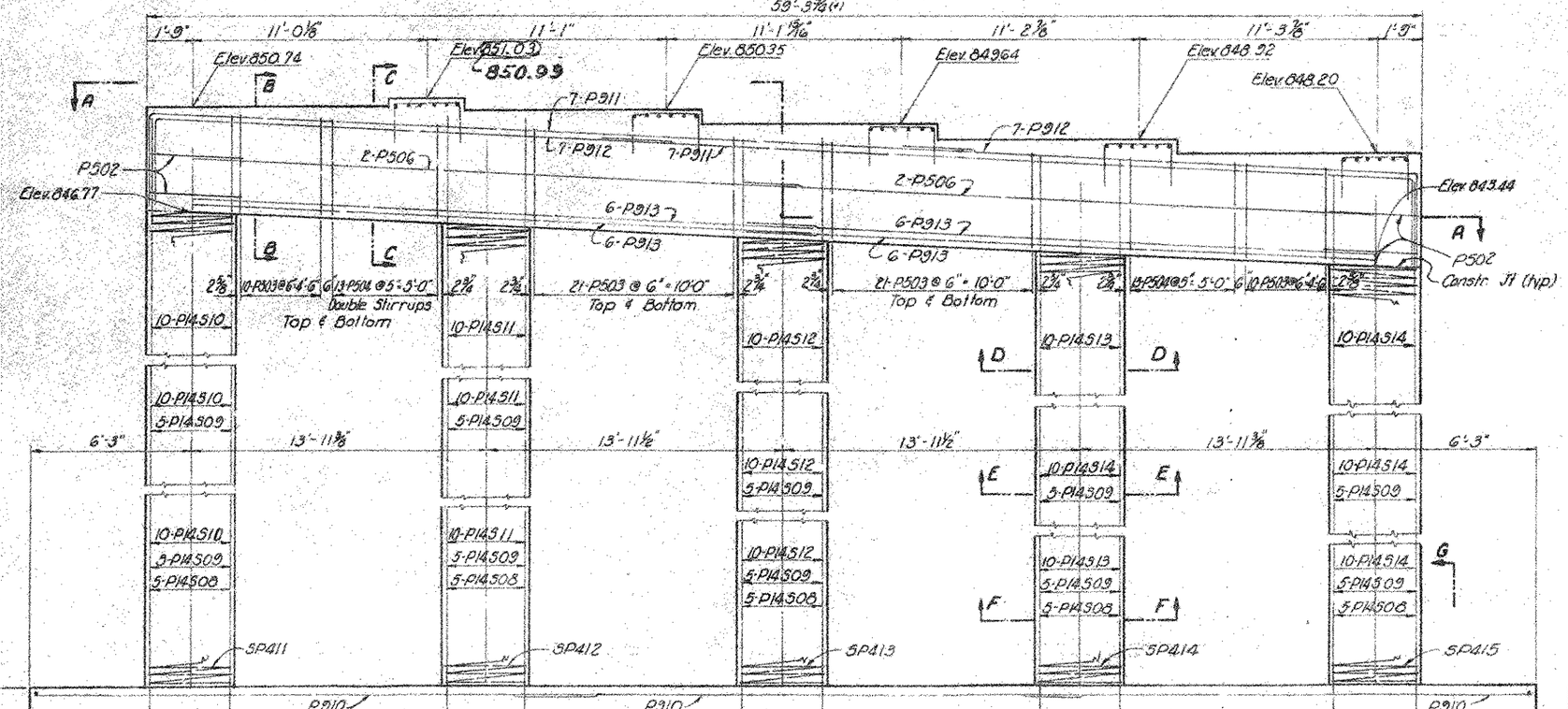
375
495

FRA-270-25.39N
FRA-62-20.83



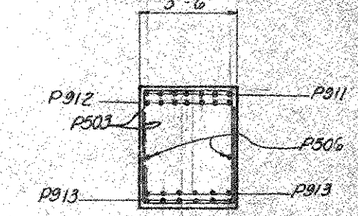
PLAN

59'-3⅜"(±)

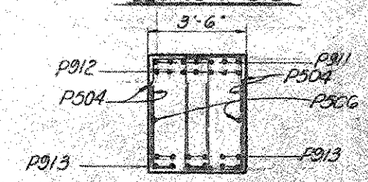




VIEW A-A



SECTION B-B



SECTION C-C



SECTION D-D

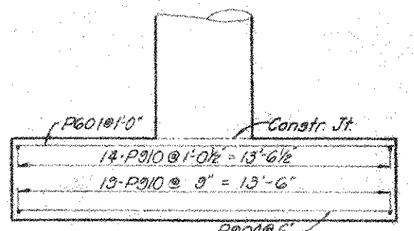


SECTION E-E



SECTION F-F

- ●P14S10, P14S11, P14S12, P14S13 & P14S14
- ○ P14S09
- ● P14S08



SECTION G-G

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FORWARD PIER

BRIDGE No FRA-270-2667N
UNDER
RAMP I

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
M.G	3		RM	JH	8/3/70	8-31-70

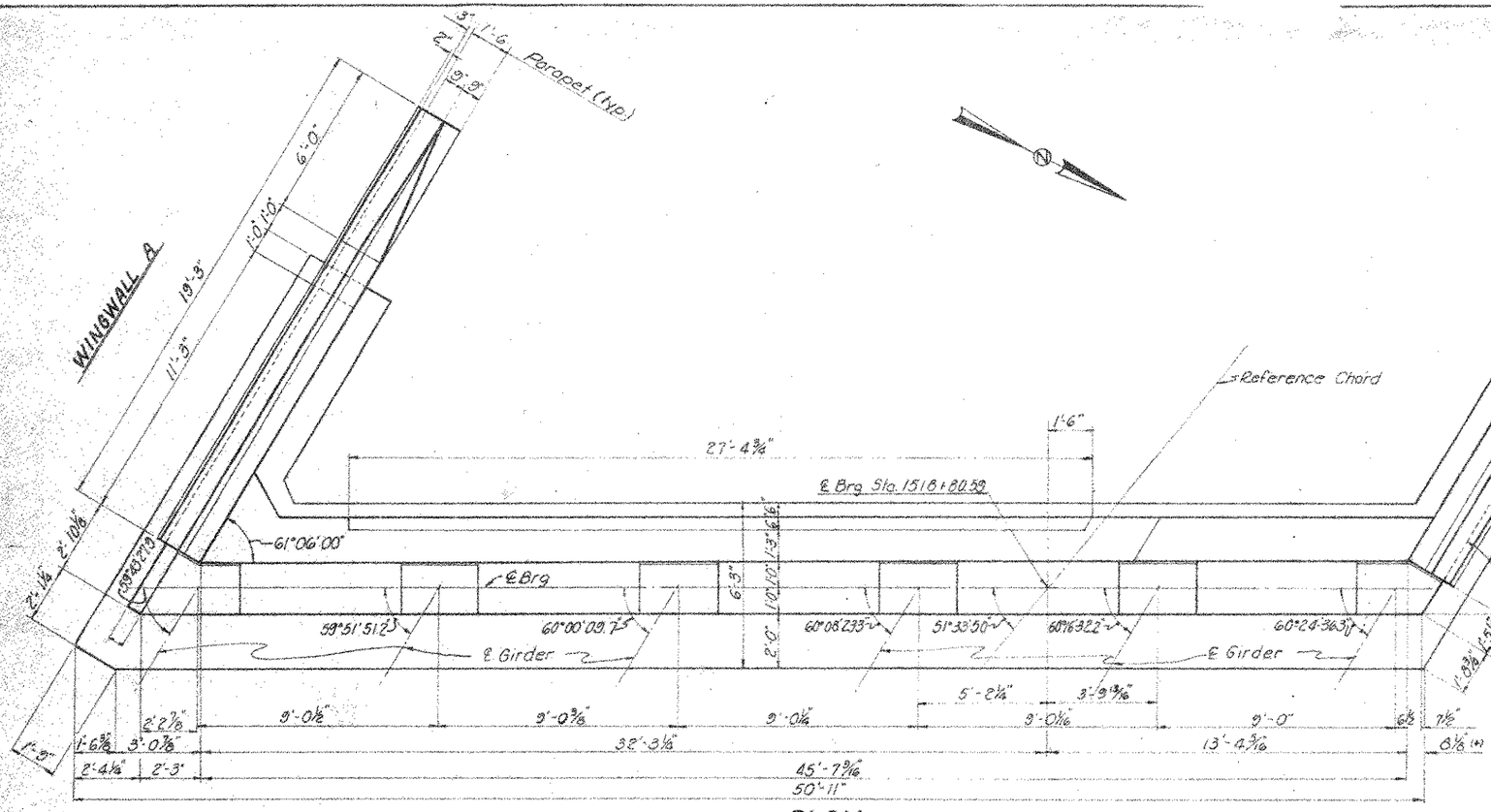
G 16

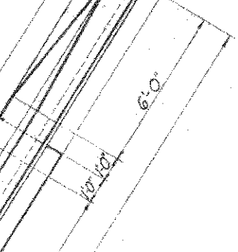
IR 270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

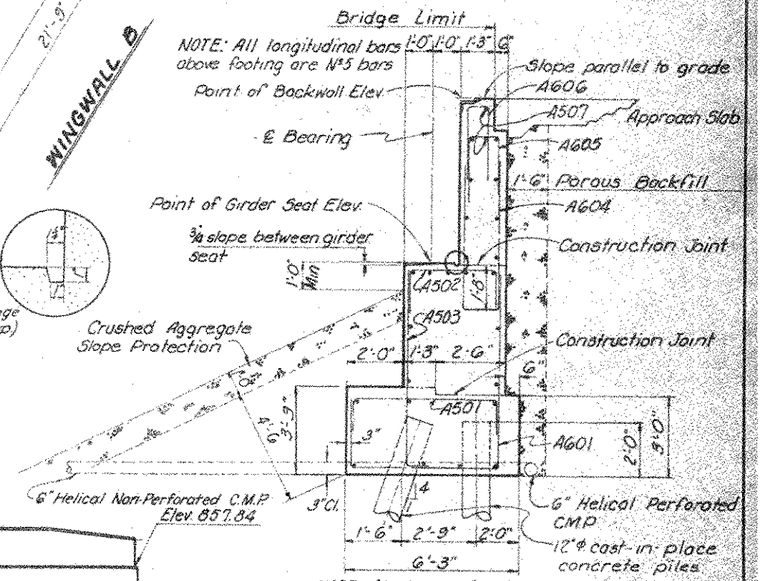
376
195

FRA-270-25.39N
FRA-62-20.83





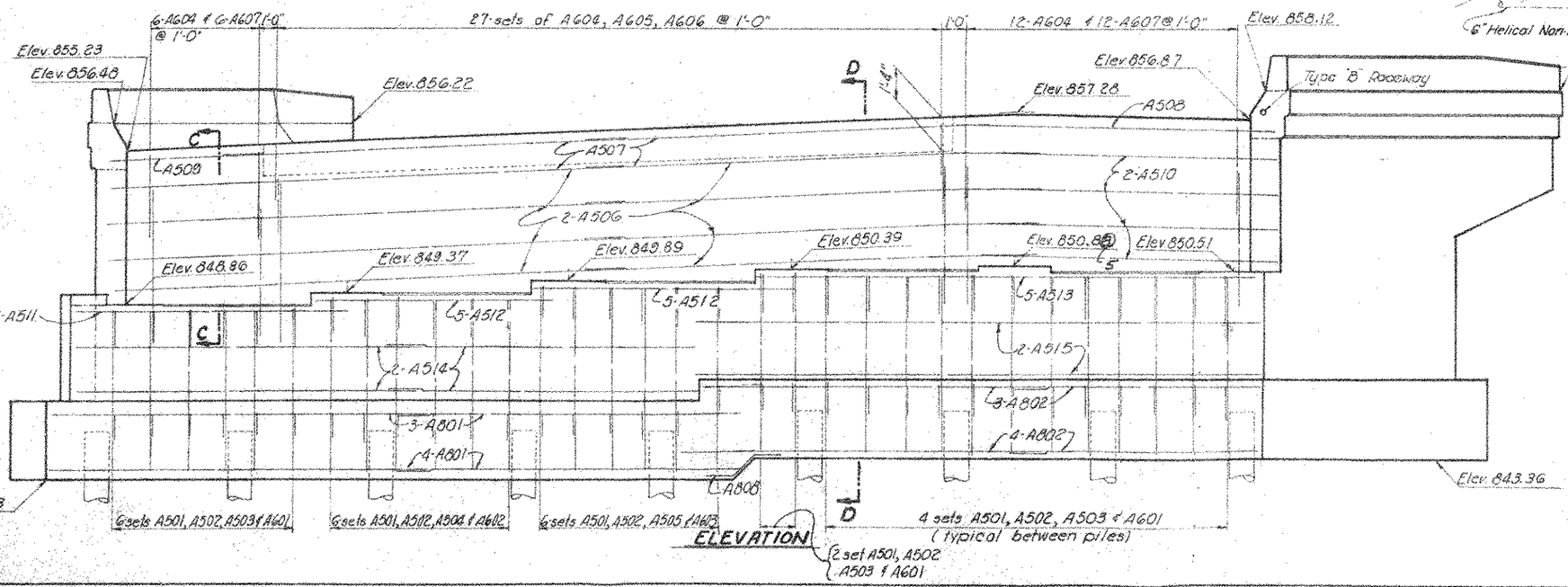
SECTION C-C



SECTION D-D

Porous Backfill, 1.5 ft. thick, full length of abutment and 2'-0" thick for wings, shall extend up to the subgrade or to the finished ground surface.

All footing reinforcing steel must be 3" clear from all concrete surfaces.



ELEVATION

7/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REAR ABUTMENT

BRIDGE N° FRA-270-2667N
UNDER
RAMP I

FRANKLIN COUNTY USR-270

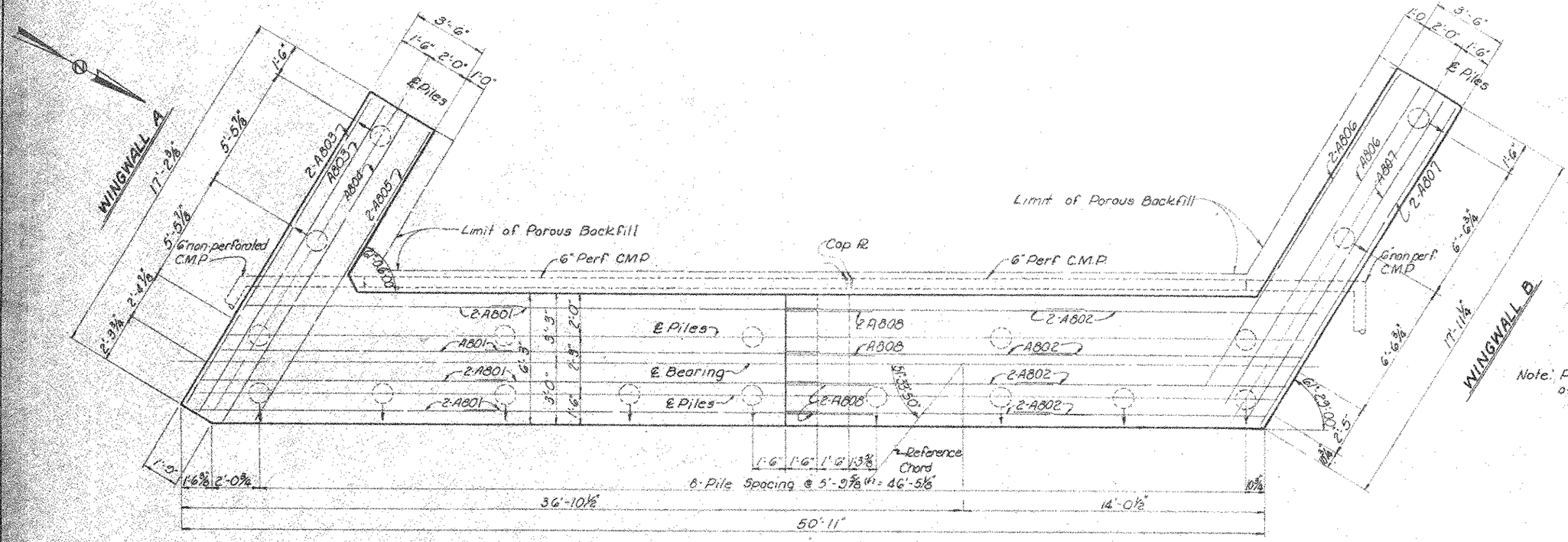
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.C.	F		Rm	JH	4/13/70	5-5-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

377
495

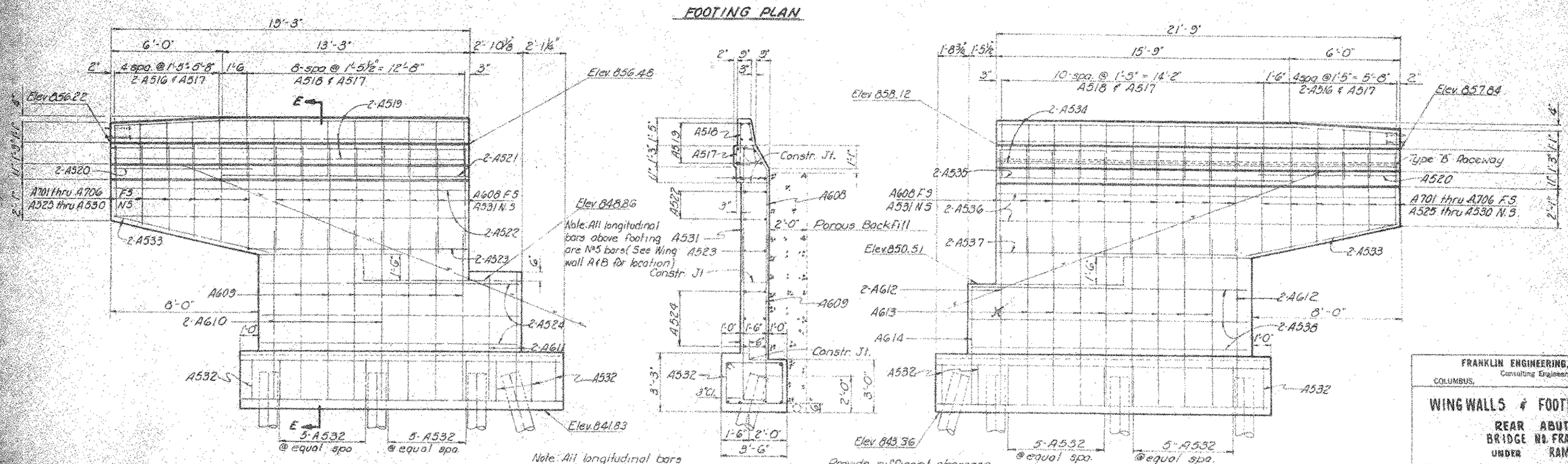
FRA-270-25.39N
FRA-62-20.83

7



FOOTING PLAN

Note: Piles to be battered in the direction of arrow 1:4



Note: All longitudinal bars above footing are No 5 bars (See Wing wall A & B for location)

Note: All longitudinal bars in footing are No 8 bars

Provide sufficent clearance for passage of the 6 helical CMP thru the bottom of the footing

WINGWALL A

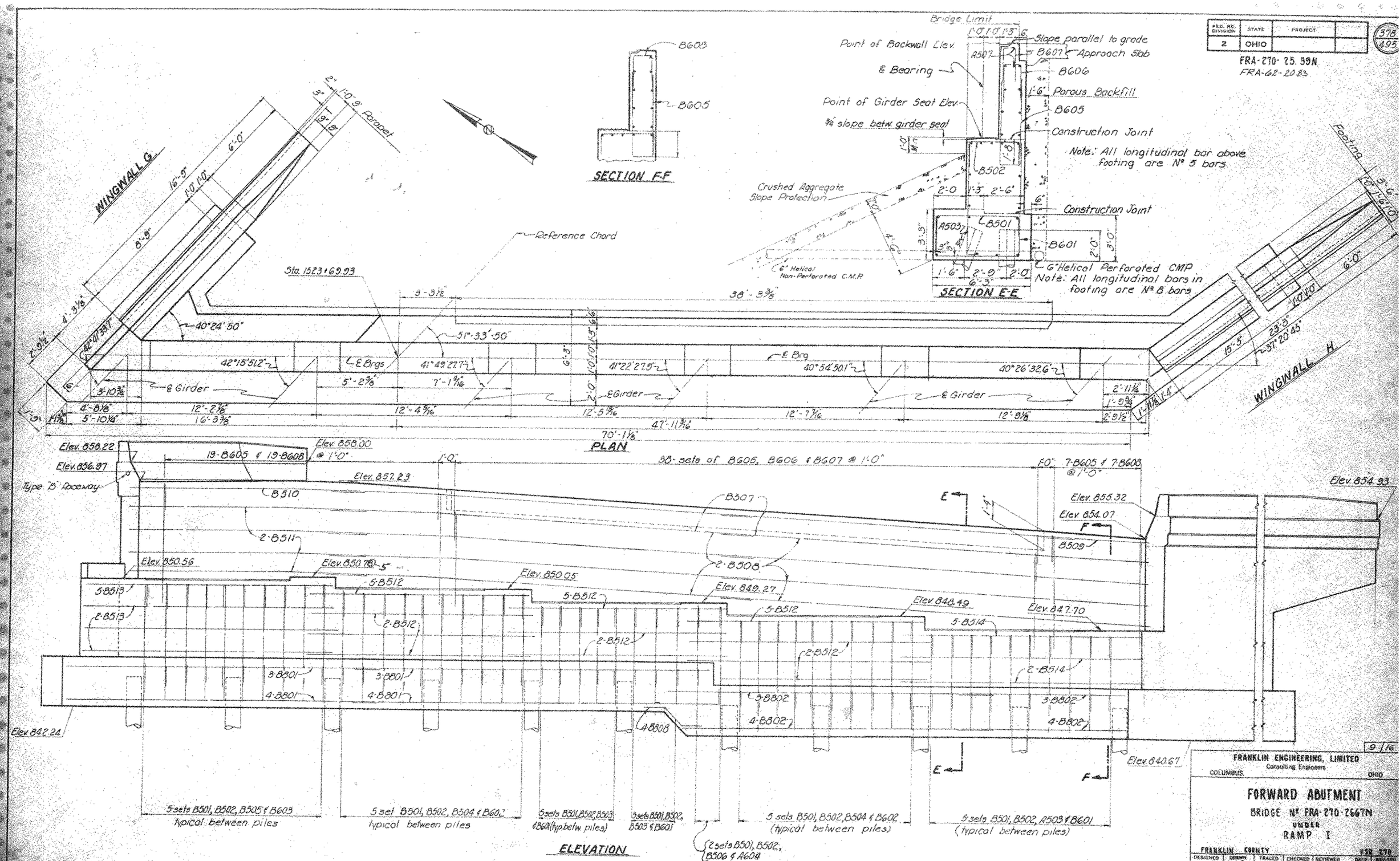
SECTION E-E

WINGWALL B

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

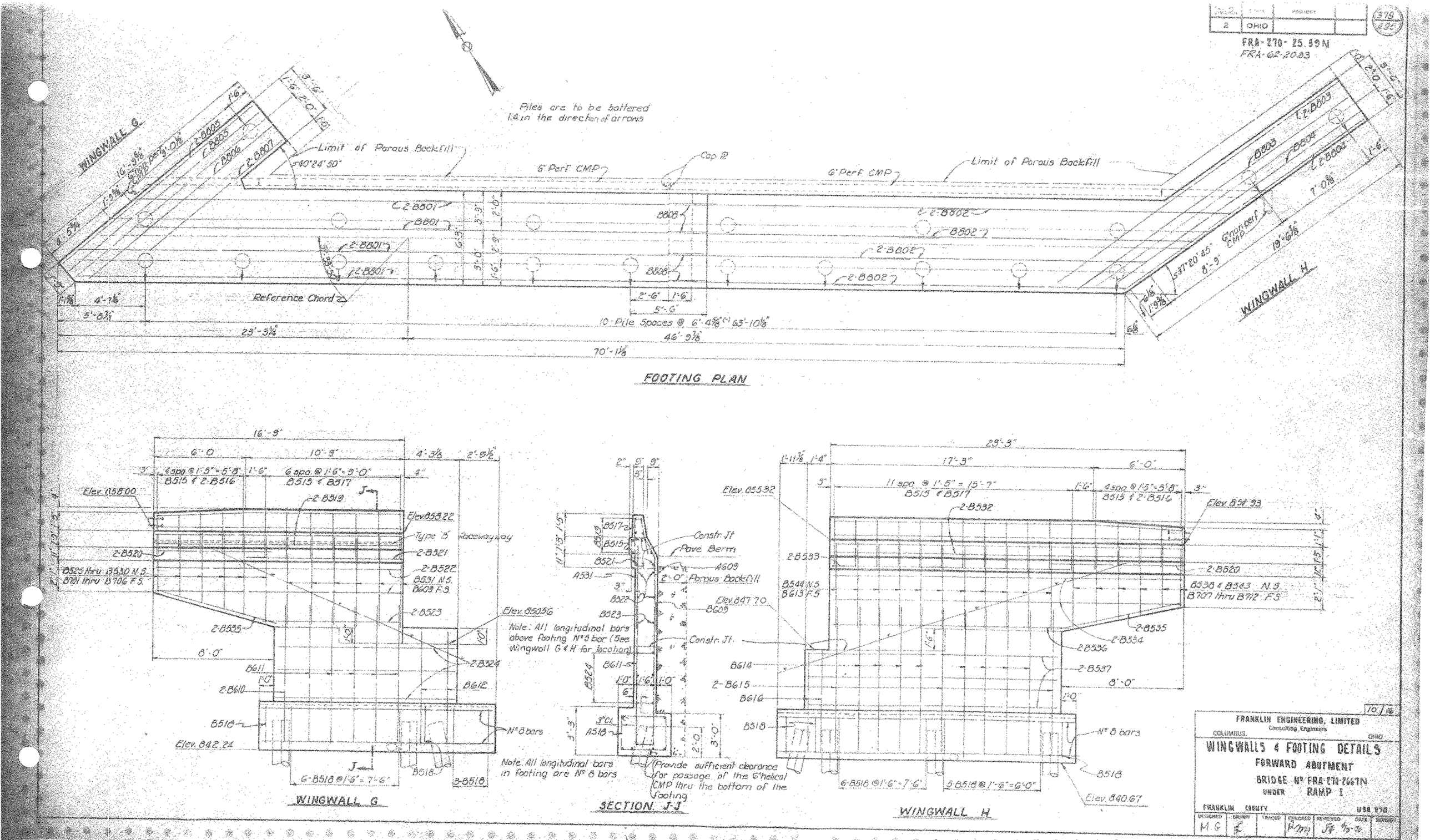
WINGWALLS & FOOTING DETAILS
REAR ABUTMENT
BRIDGE No. FRA-270-2667N
UNDER RAMP I
FRANKLIN COUNTY U.S.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G.	[illegible]		[illegible]	[illegible]	4/3/70



FED. RD. DIVISION 2
STATE OHIO
PROJECT
378
495
FRA-270-25.39N
FRA-62-20.83
SECTION F-F
B608
B605
Bridge Limit
Point of Backwall Elev.
Slope parallel to grade
Approach Slab
B607
B606
℄ Bearing
Porous Backfill
Point of Girder Seat Elev.
B605
¾" slope betw. girder seat
Construction Joint
Note: All longitudinal bar above footing are Nº 5 bars
B502
Crushed Aggregate Slope Protection
Construction Joint
A503
B501
B601
6" Helical Non-Perforated C.M.P.
6" Helical Perforated CMP
Note: All longitudinal bars in footing are Nº 8 bars
SECTION E-E
WINGWALL G
Parapet
Reference Chord
Sta. 1523+69.93
38'-3⅜"
40°24'50"
51°33'50"
℄ Brgs
℄ Brg
℄ Girder
PLAN
Elev. 858.22
Elev. 856.97
Type "B" Raceway
19-B605 & 19-B608
Elev. 858.00 @ 1'-0"
38-sets of B605, B606 & B607 @ 1'-0"
7-B605 & 7-B608 @ 1'-0"
Elev. 857.23
B510
B507
Elev. 855.32
Elev. 854.07
Elev. 854.93
B509
2-B511
2-B508
Elev. 850.56
Elev. 850.76
Elev. 850.05
Elev. 849.27
Elev. 848.49
Elev. 847.70
5-B513
5-B512
5-B514
2-B513
2-B512
2-B514
3-B801
4-B801
3-B802
4-B802
4-B808
Elev. 842.24
Elev. 840.67
5-sets B501, B502, B505 & B603 typical between piles
5 set B501, B502, B504 & B602 typical between piles
5 sets B501, B502, B503 & B601 (typ. betw. piles)
3 sets B501, B502, B503 & B601
2 sets B501, B502, B506 & A604
5 sets B501, B502, B504 & B602 (typical between piles)
5 sets B501, B502, A503 & B601 (typical between piles)
ELEVATION
WINGWALL H
Footing
FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO
FORWARD ABUTMENT
BRIDGE Nº FRA-270-2667N
UNDER
RAMP I
FRANKLIN COUNTY
DESIGNED M.G.
DRAWN
TRACED
CHECKED
REVIEWED
DATE

2 | OHIO | 379/495
FRA-270-25.59N
FRA-62-20.83



FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

WINGWALLS & FOOTING DETAILS
FORWARD ABUTMENT
BRIDGE Nº FRA-270-2667N
UNDER RAMP I

FRANKLIN COUNTY USR 270

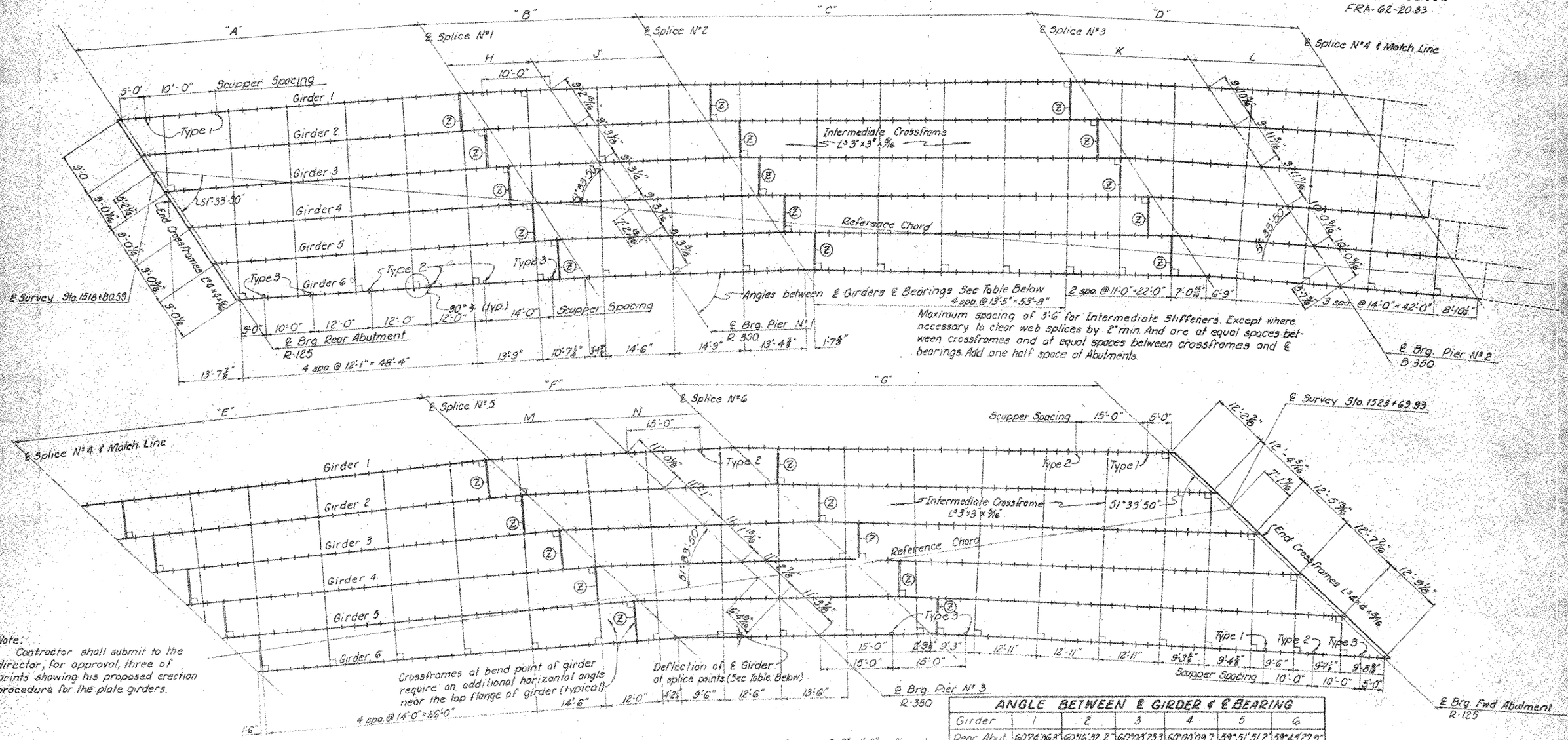
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G	[illegible]		[illegible]	[illegible]	[illegible]	

10/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

360
495

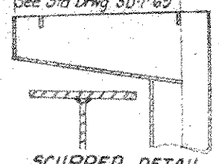
FRA-270- 25.39N
FRA-62-20.83



Note:
Contractor shall submit to the director, for approval, three of prints showing his proposed erection procedure for the plate girders.

Crossframes at bend point of girder require an additional horizontal angle near the top flange of girder (typical)

6 spaces @ 3" = 1'-6" Type 1
7 spaces @ 3" = 1'-9" Type 2
8 spaces @ 3" = 2'-0" Type 3
For Details not shown See Std Drwg SD-1-69



SCUPPER DETAIL
For Location of Scuppers See above Framing Plan.

LENGTH OF GIRDERS

Location	A	B	C	D	E	F	G
Girder 1	72'-2 5/16"	45'-7 15/16"	83'-2 1/16"	56'-5 1/8"	85'-10 5/16"	51'-6 1/4"	91'-4 3/16"
Girder 2	72'-3 1/16"	45'-8 5/8"	83'-4 1/16"	56'-7 13/16"	86'-3 1/16"	51'-10 1/4"	92'-1 3/8"
Girder 3	72'-4 5/8"	45'-9 1/2"	83'-7 3/16"	56'-10 1/2"	86'-8 1/16"	52'-2 5/16"	92'-11 3/16"
Girder 4	72'-5 1/16"	45'-10 3/16"	83'-10 3/16"	57'-1 3/16"	87'-2 1/16"	52'-6 5/8"	93'-9 1/8"
Girder 5	72'-7 1/16"	45'-11 1/4"	84'-1 3/16"	57'-4 1/8"	87'-8 1/4"	52'-11 1/16"	94'-7 1/2"
Girder 6	72'-8 1/4"	46'-0 1/8"	84'-4 3/16"	57'-7 1/8"	88'-2 1/4"	53'-3 3/4"	95'-6 7/16"

DISTANCE BETWEEN ℄ SPLICE & BEARING

Location	H	J	K	L	M	N
Girder 1	18'-0 1/16"	27'-7 3/16"	27'-10 1/2"	28'-5 3/8"	29'-0 3/16"	22'-6 1/16"
Girder 2	18'-0 13/16"	27'-7 3/16"	27'-11 9/16"	28'-8 1/2"	29'-2 7/16"	22'-7 3/16"
Girder 3	18'-1 5/8"	27'-8 3/8"	28'-0 7/8"	28'-9 3/8"	29'-4 3/8"	22'-9 1/16"
Girder 4	18'-1 1/2"	27'-8 1/8"	28'-2 5/16"	28'-11"	29'-7 1/8"	22'-11 1/2"
Girder 5	18'-1 7/8"	27'-9 3/8"	28'-3 3/4"	29'-0 1/2"	29'-9 1/16"	23'-1 7/16"
Girder 6	18'-2 3/16"	27'-9 9/16"	28'-5 1/16"	29'-2"	30'-0 3/16"	23'-3 7/16"

ANGLE BETWEEN ℄ GIRDER & ℄ BEARING

Girder	1	2	3	4	5	6
Rear Abut	60°24'36.3"	60°16'32.2"	60°08'23.3"	60°00'09.7"	59°51'51.2"	59°45'27.9"
Pier N°1	58°39'10.0"	58°30'30.7"	58°21'46.5"	58°12'56.6"	58°04'01.7"	57°55'01.4"
Pier N°2	53°09'28.6"	52°51'44.2"	52°33'39.8"	52°15'15.7"	51°56'31.4"	51°37'26.2"
Pier N°3	46°13'59.5"	45°51'15.8"	45°28'04.1"	45°04'23.5"	44°40'12.8"	44°15'30.6"
Fwd Abut	42°41'39.7"	42°15'51.2"	41°49'27.7"	41°22'27.8"	40°54'50.1"	40°26'32.6"

DEFLECTION OF ℄ GIRDER AT SPLICE POINTS

Girder	1	2	3	4	5	6
Splice N°1	1'-45.263"	1'-46'01.5"	1'-46'-31.0"	1'-47'13.1"	1'-47'45.5"	1'-48'-26.5"
Splice N°2	2'-11'-27.8"	2'-16'-08.8"	2'-21'-40.1"	2'-27'-02.6"	2'-33'-17.5"	2'-40'-05.8"
Splice N°3	3'-18'-12.6"	3'-23'-37.7"	3'-26'-46.4"	3'-30'-38.3"	3'-34'-12.8"	3'-37'-29.4"
Splice N°4	3'-31'-23.7"	3'-33'-49.5"	3'-36'-19.6"	3'-38'-53.6"	3'-41'-32.3"	3'-43'-16.7"
Splice N°5	3'-24'-08.4"	3'-26'-38.9"	3'-29'-16.3"	3'-31'-58.6"	3'-34'-46.3"	3'-37'-33.7"
Splice N°6	3'-32'-19.2"	3'-35'-24.6"	3'-38'-36.4"	3'-41'-55.6"	3'-45'-22.7"	3'-48'-58.2"

44'

11/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FRAMING PLAN

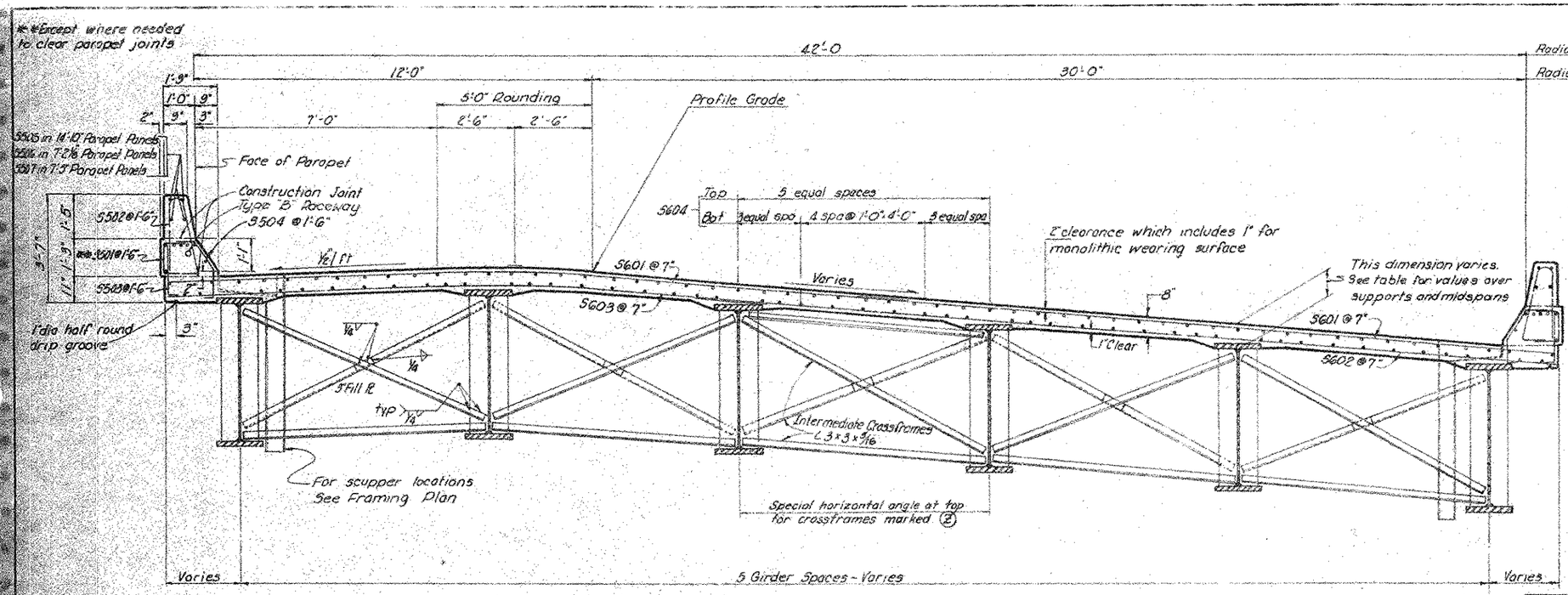
BRIDGE N° FRA-270-2667N
UNDER
RAMP I

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVISIONS	DATE	SHEET
MG						10 of 17

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-35.39N
FRA-GZ-20.83



TRANSVERSE SECTION

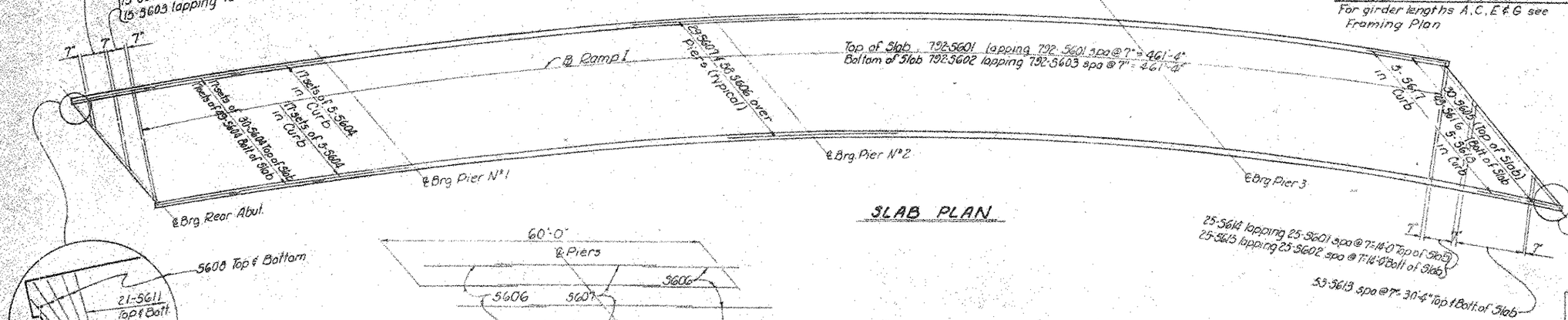
* This is the design dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per 511.19

A typical haunch width of 9" shall be used for computing the quantity of concrete. However, the haunch width may vary between 6" & 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.

SLAB DEPTH over GIRDERS

Girder	1	2	3	4	5	6
℄ Brg. Rear Abutment	11½"	11½"	12⅛"	12⅛"	12⅛"	12⅛"
Mid-point - Girder Length "A"	11 7/16"	11 3/8"	11 3/16"	11 3/16"	11 3/16"	11 3/16"
℄ Brg. Pier Nº 1	11 5/16"	11 5/16"	12"	12"	12"	12"
Mid-point - Girder Length "C"	11 9/16"	11 9/16"	11 7/16"	11 3/8"	11 3/8"	11 3/8"
℄ Brg. Pier Nº 2	11 3/8"	11 3/8"	11 3/4"	11 3/4"	11 3/4"	11 3/4"
Mid-point - Girder Length "E"	11 5/8"	11 5/8"	11⅞"	11¼"	11¼"	11⅛"
℄ Brg. Pier Nº 3	11⅜"	11⅜"	11 5/16"	11 3/16"	11⅛"	11⅛"
Mid-point - Girder Length "G"	11 5/16"	11 9/16"	11 3/16"	11⅛"	11⅛"	11⅛"
℄ Brg. Forward Abutment	11¼"	11¼"	12⅛"	12⅛"	12⅛"	12⅛"

For girder lengths A, C, E & G see Framing Plan



SLAB PLAN

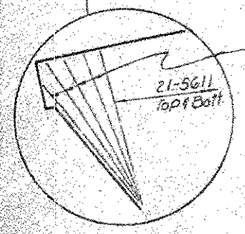
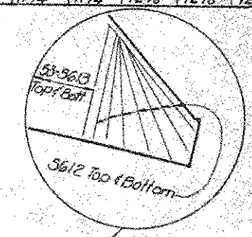


DIAGRAM SHOWING STAGGER OF 3606 AND 3607 OVER PIERS (TYP.)



12/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

TRANSVERSE SECTION & SLAB PLAN

BRIDGE Nº FRA-270-(G7)N
UNDER RAMP I
2667 N

FRANKLIN COUNTY
EB 3.18

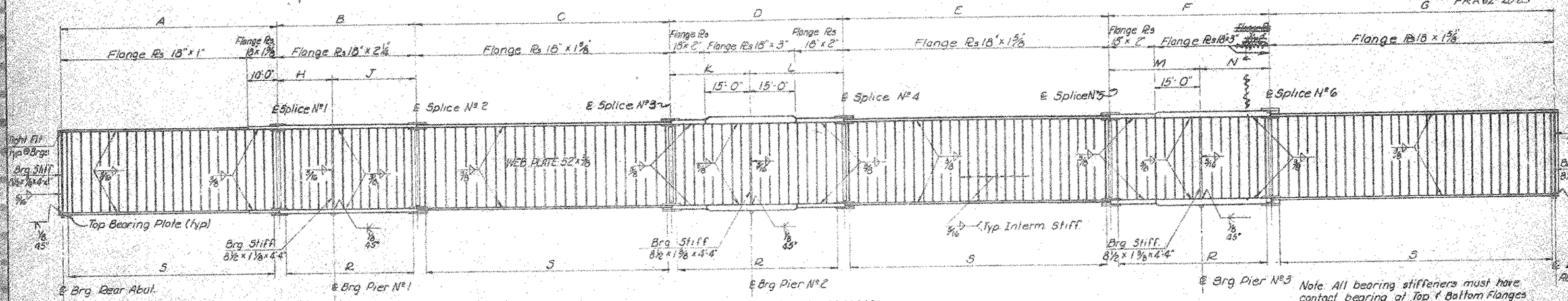
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED	DATE
M.G.							

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

352
193

FRA-270-25.39N

FRA 62-20.83



GIRDER ELEVATION

Note: All bearing stiffeners must have contact bearing at Top & Bottom Flanges

Note "S": Stiffeners shall have contact bearing at top and 1/8 maximum clearance at bottom

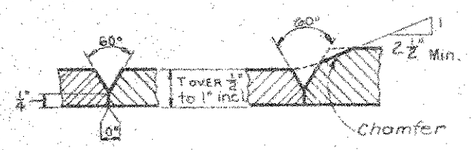
Note "R": Stiffeners shall have contact bearing at bottom and 1/8 maximum clearance at top

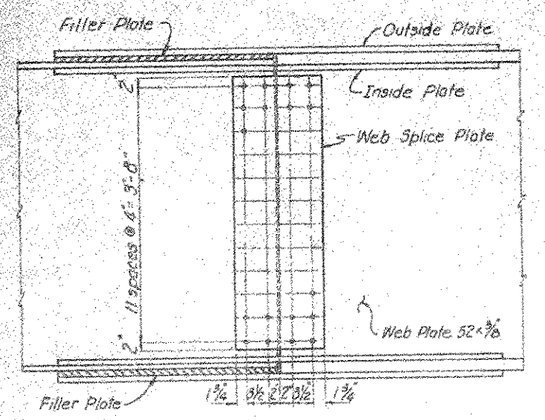
All web stiffeners are plates 6" x 5/16 x 4'-2 3/4"

All flange plates to be butt welded except at splices

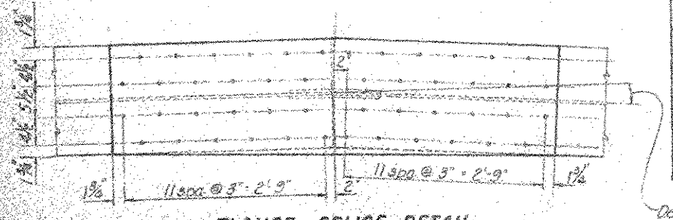
ROCKER-BOLSTER DIMENSIONS													
Bearing	A	B	C	D	F	G	H	K	L	M	R	T	Y
6350 & 2350	4	22	9 3/8	3 1/2	7/8	13	19 1/8	15	30	27	12 1/8	3 1/8	1 7/16

Note: This table is to be used with reference to Standard Drawing RB-1-55, revised 2-2-59





WEB SPLICE DETAIL



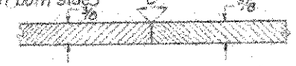
FLANGE SPLICE DETAIL

All bolts are 1" High Strength Bolts

* For plate thickness over 1 1/2", use joint preparation conforming to B-U3a-S or B-U7-S, Figure 2.16, A.W.S. Specifications.

All of the above penetration welds shall be back-gouged and welded after welding far side. Butt welds on beam and girder flange plates shall be ground flush, the finish grinding being parallel to the direction of the stress.

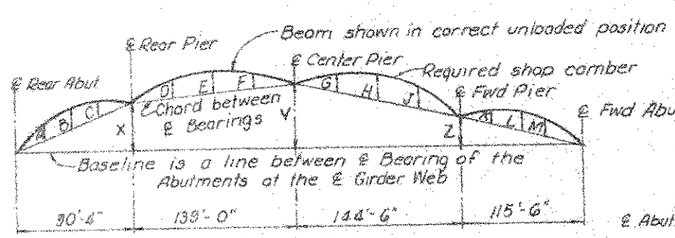
FLANGE PLATE BUTT WELD



Optional shop splices will be permitted in the web of the girder but their location shall be submitted to the Director for approval.

WEB SPLICE WELD

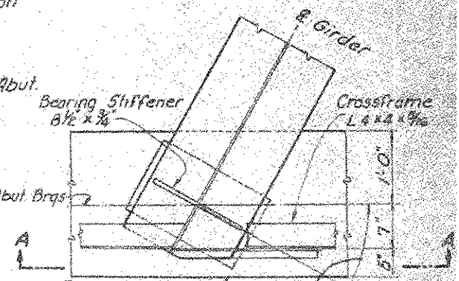
SPLICE N°	FLANGE SPLICE PLATES			WEB SPLICE Pls
	Outside Pls - 4 req'd	Inside Pls 4 req'd	Filler Pls - 2 req'd	2 required
1	18" x 1 1/16 x 6'-2"	8" x 3/8 x 6'-2"	18" x 3/8 x 3'-0 3/8"	14 1/2" x 5/16 x 4'-0"
2	18" x 1 1/16 x 6'-2"	8" x 3/8 x 6'-2"	18" x 3/8 x 3'-0 3/8"	14 1/2" x 5/16 x 4'-0"
3	18" x 1 1/16 x 6'-2"	8" x 3/8 x 6'-2"	18" x 3/8 x 3'-0 3/8"	14 1/2" x 5/16 x 4'-0"
4	18" x 1 1/16 x 6'-2"	8" x 3/4 x 6'-2"	18" x 3/8 x 3'-0 3/8"	14 1/2" x 5/16 x 4'-0"
5	18" x 1 1/16 x 6'-2"	8" x 3/8 x 6'-2"	18" x 3/8 x 3'-0 3/8"	14 1/2" x 5/16 x 4'-0"
6	18" x 1 1/16 x 6'-2"	8" x 3/4 x 6'-2"	18 1/2 x 3/8 x 3'-0 3/8"	14 1/2" x 5/16 x 4'-0"



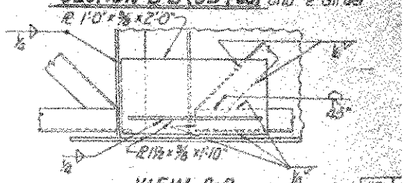
LAYOUT DIAGRAM

CAMBER & DEFLECTION TABLE													
SPAN	SPAN N°1			SPAN N°2			SPAN N°3			SPAN N°4			
LOCATION:	1/2 Pl A	1/2 Pl B	Sp Pl C	Sp Pl D	1/2 Pl E	Sp Pl F	Sp Pl G	1/2 Pl H	Sp Pl J	1/2 Pl K	Sp Pl L	3/8 Pl M	
Deflection due to weight of steel	0	0	0	1/4	5/16	1/8	1/8	1/2	1/8	1/16	1/4	1/2	
Deflection due to remaining dead load	1/4	1/2	0	9/16	15/16	7/16	3/8	15/16	3/8	1/8	3/8	3/4	
Adjustment required for vertical curve	7/16	9/16	3/16	1	1 15/16	1	1 1/16	1 7/16	1 1/16	1/16	1 5/16	1/16	
Required shop camber	1 1/16	1 3/16	1 1/16	1 13/16	2 3/16	1 1/16	1 1/16	2 1/2	1 1/16	1 1/8	2 1/16	1 1/16	

TABLE OF DIMENSIONS						
Girder	1	2	3	4	5	6
X	9 3/16	9 1/16	10 3/16	10 7/16	10 5/16	10 3/16
Y	1'-4 1/4	1'-4 3/8	1'-4 5/16	1'-4 3/16	1'-3 7/8	1'-3 5/8
Z	11 9/16	1'-0"	11 5/16	11 5/16	11 5/16	1'-0"



SECTION B-B (SD-1-63) and ℄ Girder



VIEW A-A

137

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

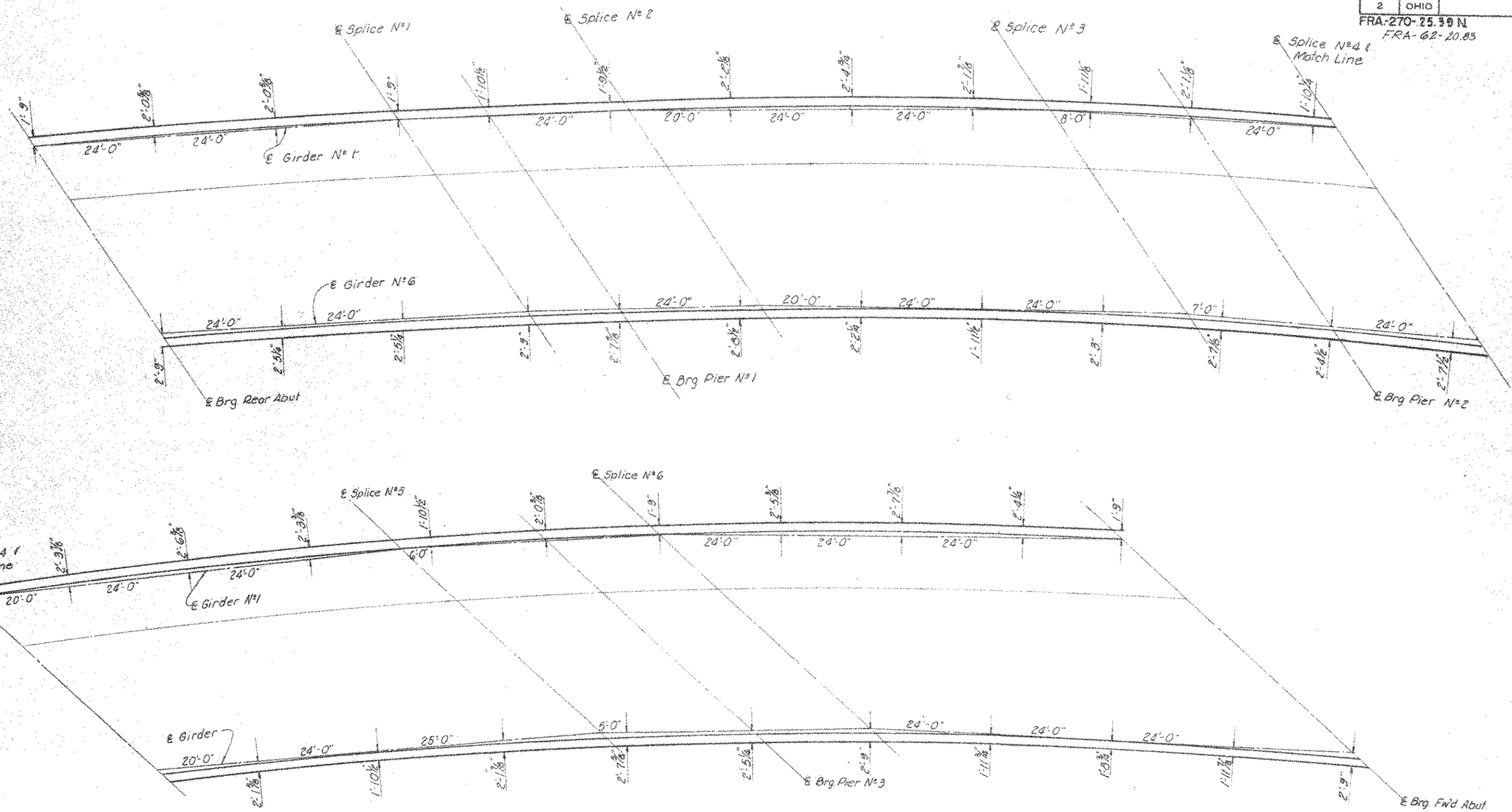
SUPER STRUCTURE DETAILS
BRIDGE N° FRA-270-2607N
UNDER
RAMP 1

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	SUPERVISED	DATE
M.G.					7/1/70

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N
FRA-62-20.83



OFFSETS FROM EDGE OF SLAB TO ℄ EXTERIOR GIRDER

NOTE:
All offsets are measured perpendicular to ℄ Girders
All horizontal dimensions are measured along ℄ Girders

14/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS OHIO

EDGE OF SLAB OFFSETS
BRIDGE N° FRA-270-26.67N
UNDER
RAMP 1

FRANKLIN COUNTY ER 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.					4/13/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

384
496

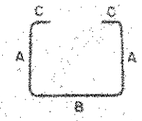
FRA-270-25.39N
FRA-GL-20.83



TYPE 1



TYPE 2



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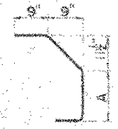

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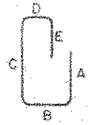

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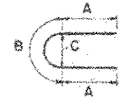

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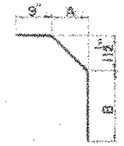

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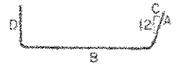

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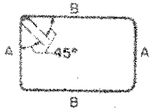

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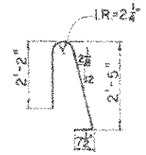
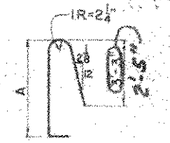


TYPE 10



TYPE 11



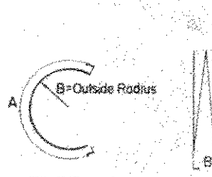
TYPE 12

ABUTMENTS

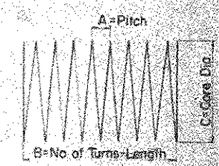
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A501	14	16'-3"	5						607
A502	14	14'-3"	5						533
A503	3	16'-8"	5						134
A504	1	16'-3"	5						43
A505	2	15'-10"	5						85
A506	3	18'-0"	5						152
A507	3	17'-5"	5						140
A508	4	7'-3"	15						77
A701	2	4'-0"	5						16
A702	2	5'-0"	7	2¼"	3'-5"				20
A703	2	5'-4"	7	4"	3'-8"				22
A704	2	5'-8"	7	6"	3'-11"				23
A705	2	6'-0"	7	9"	4'-2"				25
A706	2	6'-3"	7	9"	4'-5"				26
A601	20	18'-2"	2	2'-7"	5'-4"	6'-7"			426
A602	6	14'-8"	2	2'-7"	5'-4"	7'-1"			132
A603	6	15'-2"	2	2'-7"	5'-4"	7'-7"			137
A604	45	12'-9"	2	3'-10"	1'-5"	5'-10"			862
A605	27	6'-9"	2	2'-10"	1'-5"	2'-10"			274
A606	27	7'-1"	2	3'-3"	11"	3'-3"			287
A607	18	9'-5"	2	4'-2"	1'-5"	4'-2"			255
A608	18	6'-5"	7	9"	4'-7"				173
A609	6	20'-10"	2	10'-0"	1'-2"	10'-0"			188
A610	6	10'-0"	5						60
A611	4	6'-7"	5						40
A612	9	10'-1"	5						61
A613	8	21'-0"	2	10'-1"	1'-2"	10'-1"			252
A614	1	13'-10"	2	6'-6"	1'-2"	6'-6"			21
A501	32	8'-3"	2	1'-7"	5'-4"	1'-7"			275
A502	32	6'-4"	2	1'-7"	3'-5"	1'-7"			211
A503	20	7'-1"	2	6'-6"	8"	0			148
A504	6	7'-7"	2	7'-0"	8"	0			48
A505	6	8'-1"	2	7'-6"	8"	0			51
A506	16	20'-0"	5						334
A507	4	16'-3"	5						68
A508	1	14'-0"	5						15
A509	1	6'-0"	5						6
A510	8	12'-0"	5						100
A511	5	11'-3"	5						59
A512	10	10'-10"	5						113
A513	5	20'-8"	5						108
A514	8	13'-10"	5						115
A515	4	25'-8"	5						107
A516	20	3'-0"	5						63
A517	30	2'-0"	2	7½"	1'-0"	7½"			63
A518	20	6'-3"	11	3'-1"					130
A519	8	18'-11"	Field Bent if necessary						158
A520	4	7'-6"	5						31
A521	2	13'-3"	5						28
A522	4	18'-11"	5						79
A523	2	12'-0"	5						25
A524	6	13'-5"	5						86
A525	2	3'-0"	5						6
A526	2	3'-3"	5						7
A527	2	3'-6"	5						9
A528	2	3'-9"	5						8
A529	2	4'-0"	5						8
								TOTAL	

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A530	2	4'-3"	5						9
A531	18	9'-7"	5						86
A532	27	11'-1"	9	2'-4"	3'-0"				312
A533	4	8'-0"	5						33
A534	8	21'-5"	Field Bent						179
A535	2	15'-8"	5						33
A536	4	21'-3"	5						89
A537	2	13'-5"	5						28
A538	6	14'-10"	5						93
B801	14	22'-10"	5						854
B802	14	20'-4"	5						760
B803	3	22'-0"	5						176
B804	3	19'-0"	5						152
B805	9	16'-3"	5						130
B806	1	16'-0"	5						43
B807	2	11'-6"	5						61
B808	4	7'-3"	15						77
B701	1	4'-0"	5						8
B702	1	5'-2"	7	2½"	3'-7"				12
B703	1	5'-8"	7	4"	4'-0"				13
B704	1	6'-2"	7	6"	4'-5"				14
B705	1	6'-8"	7	9"	4'-10"				15
B706	1	7'-1"	7	9"	5'-3"				8
B707	1	4'-0"	5						10
B708	1	5'-0"	7	2½"	3'-5"				11
B709	1	5'-4"	7	4"	3'-8"				12
B710	1	5'-8"	7	6"	3'-11"				12
B711	1	6'-0"	7	9"	4'-2"				12
B712	1	6'-3"	7	9"	4'-5"				13
B601	18	14'-2"	2	2'-7"	5'-4"	6'-7"			383
B602	20	15'-0"	2	2'-7"	5'-4"	7'-5"			451
B603	10	15'-3"	2	2'-7"	5'-4"	7'-8"			229
B604	2	13'-9"	2	2'-7"	5'-4"	6'-2"			47
B605	64	12'-5"	2	5'-10"	1'-5"	5'-10"			1226
B606	38	6'-9"	2	2'-10"	1'-5"	2'-10"			385
B607	38	7'-1"	2	3'-3"	11"	3'-3"			404
B608	26	9'-4"	2	4'-2"	1'-5"	4'-2"			364
B609	6	7'-4"	7	9"	5'-6"				66
B610	2	10'-8"	5						32
B611	5	22'-2"	2	10'-8"	1'-2"	10'-8"			166
B612	2	17'-2"	2	8'-8"	1'-2"	7'-8"			52
B613	11	6'-5"	7	9"	4'-7"				106
B614	8	20'-10"	2	10'-0"	1'-2"	10'-0"			250
B615	6	10'-8"	5						90
B616	2	13'-6"	2	6'-4"	1'-2"	6'-4"			41
B501	50	8'-3"	2	1'-7"	5'-4"	1'-7"			430
B502	50	6'-4"	2	1'-7"	3'-5"	1'-7"			330
B503	18	7'-1"	2	6'-6"	8"	0"			133
B504	20	7'-11"	2	7'-4"	8"	0			165
B505	10	8'-2"	2	7'-7"	8	0			85
B506	2	8'-8"	2	8'-1"	8"	0"			18
B507	4	22'-0"	5						92
								TOTAL	

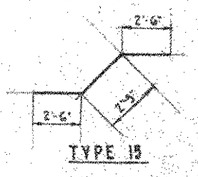
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
B508	16	30'-0"	5						301
B509	1	10'-0"	5						10
B510	1	19'-0"	5						20
B511	6	16'-6"	5						138
B512	31	14'-3"	5						461
B513	11	15'-0"	5						172
B514	9	18'-6"	5						174
B515	29	2'-0"	2	7½"	1'-0"	7½"			60
B516	20	3'-0"	9						63
B517	19	6'-3"	11	3'-1"					124
B518	25	11'-1"	9	2'-4"	3'-0"				289
B519	8	16'-5"	Field Bent						137
B520	4	7'-6"	9						31
B521	2	10'-9"	5						22
B522	4	16'-5"	5						69
B523	2	9'-6"	5						20
B524	6	12'-8"	5						78
B525	1	3'-0"	9						3
B526	1	3'-5"	5						4
B527	1	3'-10"	5						4
B528	1	4'-5"	5						4
B529	1	4'-8"	5						5
B530	1	5'-1"	5						5
B531	6	5'-5"	5						34
B532	8	22'-11"	Field Bent						191
B533	2	17'-5"	5						36
B534	4	22'-11"	5						96
B535	4	8'-0"	5						33
B536	2	16'-0"	5						33
B537	6	16'-3"	5						102
B538	1	3'-0"	5						3
B539	1	3'-8"	5						3
B540	1	3'-6"	5						4
B541	1	3'-9"	5						4
B542	1	4'-0"	5						4
B543	1	4'-3"	5						4
B544	11	4'-7"	5						53
								TOTAL	19,322



TYPE 14



TYPE 13



TYPE 15

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation, but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximately 0.80 lbs. per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example: A506 is a No. 5 size bar and P1101 is a No. 11 size bar.

15 116

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE Nº FRA 270-2667N
UNDER
RAMP I

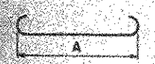
FRANKLIN COUNTY 18 2-0

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	SHEET
M.C.	BAC		V.S.P.	JP	4-71	

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270. 25.30 N
FRA-62-20.83

385
496



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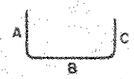

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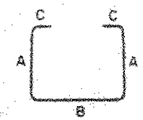

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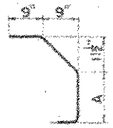

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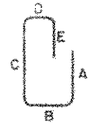
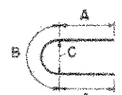
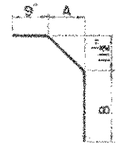


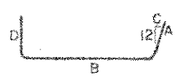
TYPE 5



TYPE 6



TYPE 7



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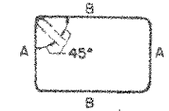
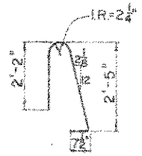
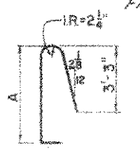


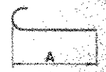
TYPE 9



TYPE 10



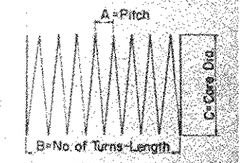
TYPE 11



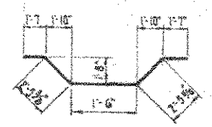
TYPE 12



TYPE 14



TYPE 13



TYPE 16

ABUTMENTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT

PIERS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P14501	25	27'-1"	2	25'-0"	2'-7"				5180
P14502	25	37'-1"	2	35'-0"	2'-7"				7092
P14503	10	45'-1"	2	43'-0"	2'-7"				3449
P14504	10	45'-0"	2	42'-11"	2'-7"				3443
P14505	10	44'-6"	2	42'-5"	2'-7"				3404
P14506	10	43'-11"	2	41'-10"	2'-7"				3360
P14507	10	43'-4"	2	41'-3"	2'-7"				3315
P14508	25	30'-1"	2	28'-0"	2'-7"				5753
P14509	25	40'-1"	2	38'-0"	2'-7"				7666
P14510	10	48'-1"	2	46'-0"	2'-7"				3678
P14511	10	47'-10"	2	45'-9"	2'-7"				3659
P14512	10	47'-1"	2	45'-0"	2'-7"				3602
P14513	10	46'-5"	2	44'-4"	2'-7"				3551
P14514	10	45'-8"	2	43'-7"	2'-7"				3434
P1101	100	7'-4"	2	6'-2"	1'-6"				3896
P1102	25	25'-0"	5						3321
P1103	15	40'-11"	5						3261
P1104	15	40'-8"	5						3241
P1105	15	40'-0"	5						3188
P1106	15	39'-4"	5						3135
P1107	15	38'-8"	5						3082
P901	12	34'-5"	2	31'-0"	3'-8"				1404
P902	12	25'-8"	2	22'-3"	3'-8"				1047
P903	20	29'-8"	5						1677
P904	372	13'-6"	5						17075
P905	66	30'-8"	5						6882
P906	12	36'-9"	2	33'-4"	3'-8"				1493
P907	12	26'-5"	2	23'-0"	3'-8"				1078
P908	20	26'-5"	5						1796
P909	120	21'-3"	5						8670
P910	99	29'-9"	5						8331
P911	14	40'-3"	2	36'-10"	3'-8"				1916
P912	14	28'-11"	2	25'-6"	3'-8"				1376
P913	24	29'-5"	5						2400
P601	187	13'-6	5						3792
P501	4	24-0	5						100
P502	12	8'-2"	6	1'-7"	5'-0"	3'-8"			102
P503	324	10'-3"	2	3'-8"	3'-2"	3'-8"			3464
P504	280	9'-0"	2	3'-8"	1'-11"	3'-8"			2628
P505	4	25'-2"	5						107
P506	4	28'-9"	5						120
P507	180	5'-9"	2	1'-6"	3'-0"	1'-6"			1080
SP401	1	36'-8"	13	3½	128	3'-2"			961
SP402	1	36'-1⅛"	13	3½	126	3'-2"			946
SP403	1	35'-6⅛"	13	3½	124	3'-2"			932
SP404	1	34'-11⅛"	13	3½	122	3'-2"			917
SP405	1	34'-4⅛"	13	3½	120	3'-2"			902
SP406	1	37'-1⅛"	13	3½	129	3'-2"			973
SP407	1	36'-4⅛"	13	3½	127	3'-2"			954
SP408	1	35'-7⅛"	13	3½	124	3'-2"			935
SP409	1	34'-10⅛"	13	3½	121	3'-2"			916
SP410	1	34'-1⅛"	13	3½	119	3'-2"			896
SP411	1	33'-9⅛"	13	3½	138	3'-2"			1041
SP412	1	36'-11⅛"	13	3½	136	3'-2"			1020
SP413	1	36'-1⅛"	13	3½	133	3'-2"			998
SP414	1	37'-3⅛"	13	3½	130	3'-2"			977
SP415	1	36'-5⅛"	13	3½	127	3'-2"			955
									164,637

SUPERSTRUCTURES

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
5601	1624	22'-10"	5						36,696
5602	817	27'-10"	5						34,155
5603	807	19'-3"	5						23,333
5604	1513	30'-0	5						68,176
5605	30	*	5	*Varies 21'-8" to 12'-0" Incr.=4"					759
5606	174	17'-0	5						4443
5607	87	30'-0"	5						3920
5608	6	3'-6"	5						42
5609	15	*	5	*Varies 20'-0 to 5'-5" Incr.=1'-0½					286
5610	15	*	5	*Varies 25'-0" to 10'-5" Incr.=1'-0½					399
5611	42	*	5	*2 sets of 21 Varies 25'-6 to 4'-8" Inc. 1'-0½"					952
5612	14	4'-4"	5						91
5613	106	*	5	*Set of 53 - Varies 23'-3" to 4'-10" Incr. 5¾					2753
5614	25	*	5	*Varies 19'-9" to 8'-3" Incr. 5¾"					526
5615	25	*	5	*Varies 18'-9" to 3'-3" Incr. 5¾"					338
5616	40	*	5	*Varies 21'-8" to 12'-8" Incr. 2¼					1263
5617	3	12'-2"	5						91
5618	5	21'-7"	5						162
5501	660	2'-0"	2	7½	1'-0"	7½			1377
5502	660	5'-4"	2	1'-10"	7"				3671
5503	660	2'-4"	2	1'-10	7"				1604
5504	660	3'-5"	4	11"					2352
5505	180	14'-6"	5						2782
5506	88	6'-10	5						627
5507	88	7'-1"	5						650
5508	14	9'-7"	16						140
5509	8	3'-1"	5						26

REPLACEMENT BARS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
RE1401	4	2'-6"	5						
RE1101	2	8'-7"	5						
RE901	3	7'-10"	5						
RE801	1	7'-6	5						
RE706	1	7'-1"	7	9"	5'-3"				
RE601	11	6'-11"	5						
RE501	2	6'-7"	5						
RE401	1	6'-3"	14	6'-3	1'-7"				

NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of footing to the bottom of the pier cap. The "No. of Turns" shown is "Length" divided by the pitch, plus three turns (total number of close coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximately 0.80 lbs. per lin ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs per lin ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example: A506 is a No. 5 size bar and P1101 is a No. 11 size bar.

210.556

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REINFORCING STEEL

BRIDGE Nº FRA 270. 26.67N
UNDER
RAMP I

FRANKLIN COUNTY — IR 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REV.
M.G.						

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

386
195

FRA-270-25.39 N.
FRA-62-20.83

I.R.-270
P.I. Sta. 1506+98.66
Δ = 35°-13'-56" Lt
D = 1°-08'-00"
R = 5055.51'
T = 1508.66
L = 2932.25
E = 220.31

RAMP "I"

Variable

30'

30' L Taper

36'

26°-07'-35.6" with tangents

Sta. 1520+03.401 RAMP "D"
℄ Sta. 1519+38.440 I.R.-270

Type B Raceway

16'-0"

Min. Vertical Clear. Northbound Lanes

Min. Vertical Clear. Southbound Lanes

15'-2⅝" Actual Horz. Clear.
14'-0" Req'd Horz. Clear.

End Taper

End Approach Slab Sta. 1142+95.82

TIS Elev. 825.19

3" Typical

TIS Elev. 827.56

TIS Elev. 828.50

TIS Elev. 831.82

RAMP "D"

D-1517

D-1518

D-1519

D-1520

D-1521

D-1522

Dc = 6°30'

Dc = 3°50'

Variable

Begin Approach Slab Sta. 1146+15.88

1148

℄ Northbound U.S.R.-62

1142

1144

1145

1146

1147

2.5:1

2:1

6:1

8:1

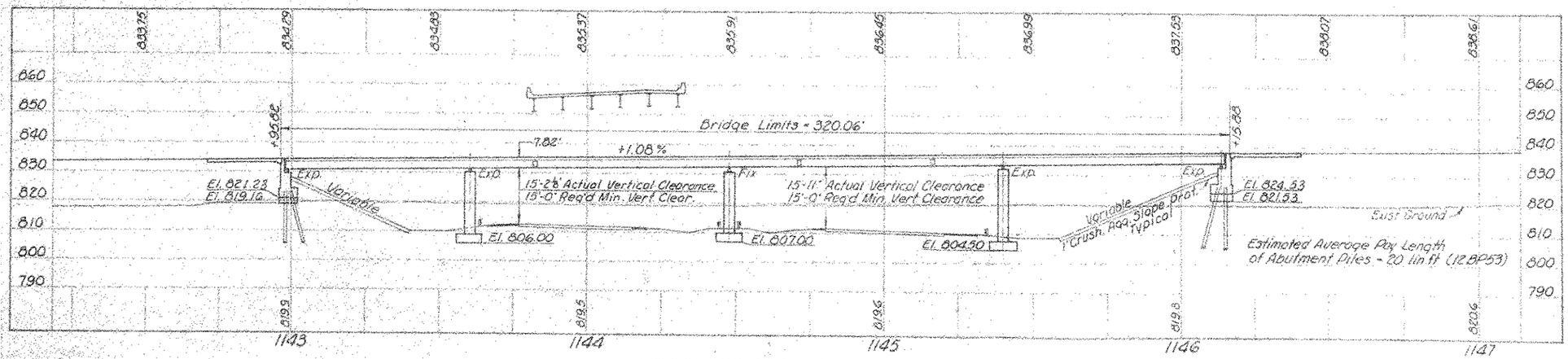
Earthwork slopes shown are schematic. Actual earthwork slopes shall conform to plan cross sections.

℄ Sta. 1144+47.764 Northbound U.S.R.-62 =
℄ Sta. 1519+60.233 I.R.-270

RAMP "D"
P.I. Sta. D-1517+42.08
Δ = 66°-18'-32" Lt
D = 4°-30'-00"
R = 1273.24'
T = 831.74'
L = 1473.53'
E = 247.59'

U.S.R.-62 N.B.
P.I. Sta. 1144+12.54
Δ = 34°-45'-34" Lt
D = 3°-50'-00"
R = 1494.67'
T = 467.82'
L = 906.77'
E = 71.50'

PLAN



PROFILE ALONG ℄ NORTHBOUND USR-62

1 / 19

PROPOSED STRUCTURE

TYPE: Continuous Steel Girder Bridge with reinf. conc. deck & substructures
SPANS: 62'-6"; 89'-4"; 95'-0"; 76'-0" along "D"
ROADWAY: Avg. struct. width 68'-6" f/f par.
LOADING: HS 20-44
WEARING SURFACE: 1" monolithic concrete
SKEW: 26°-07'-35.6" with tangent
APPROACH SLAB: AS-1-67 (25'-0" long)
ALIGNMENT: 3°-50'-00" curve left (USR-62 NB)
SUPERELEVATION: 0.0833 f/f
AVERAGE DAILY TRAFFIC: 12,018 (1973)

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SITE PLAN

BRIDGE No. FRA-270-2666 N
under Northbound USR-62
and RAMP "D"

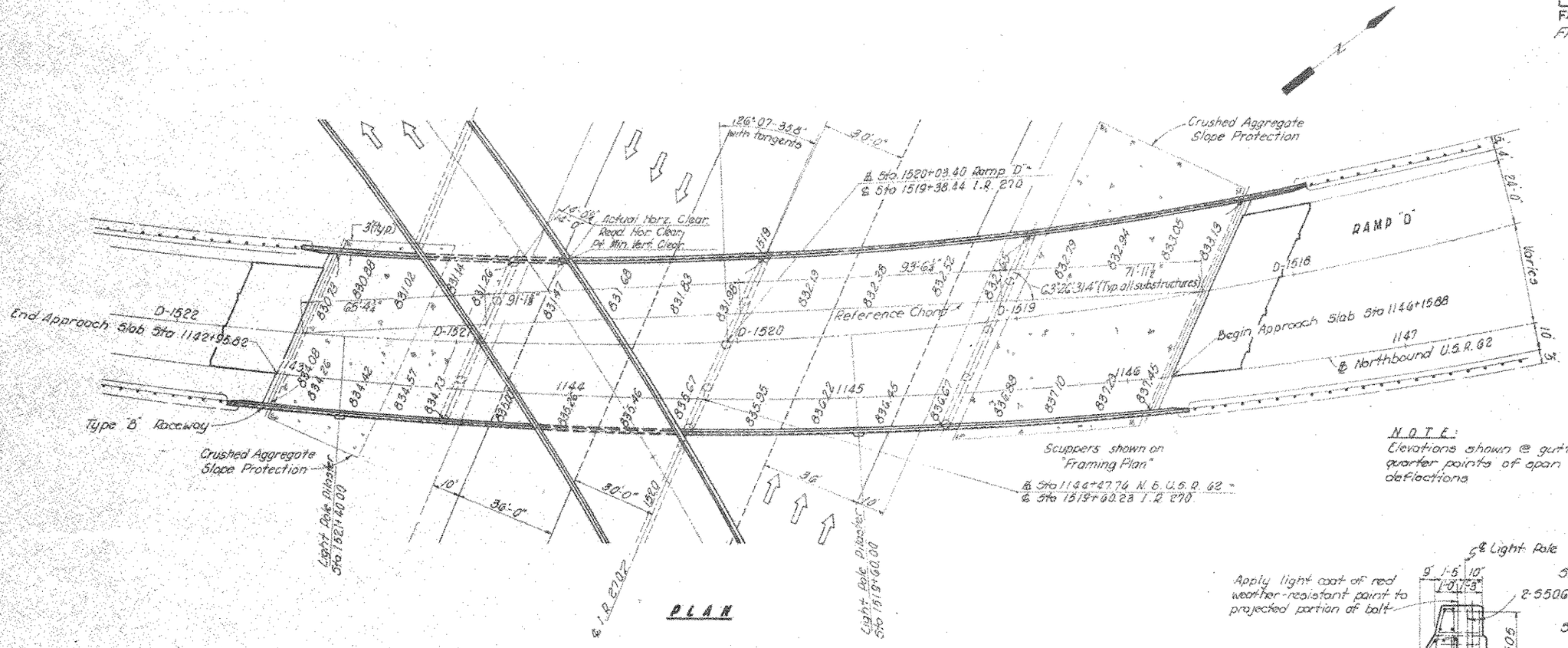
FRANKLIN COUNTY — I.R.-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
LM			S.Y.	PA	4/11/77	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

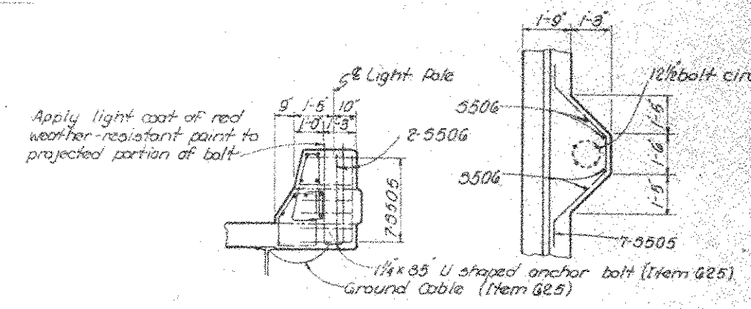
387/495

FRA-270-25.39 N
FRA-62-20.83

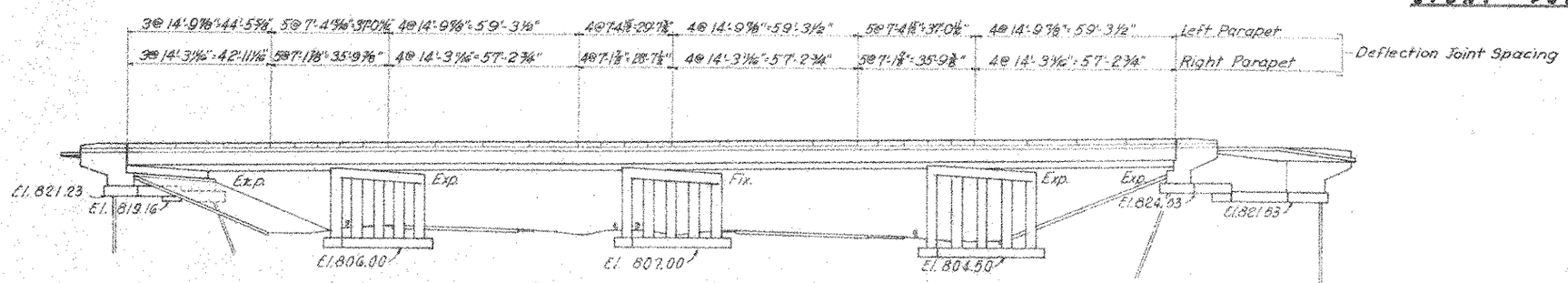


PLAN

NOTE:
Elevations shown @ gutter lines are screed elevations @ quarter points of span and include concrete dead load deflections



LIGHT POLE PILASTER



ELEVATION

2/19

FRANKLIN ENGINEERING, LIMITED
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COLUMBUS OHIO

GENERAL PLAN & ELEVATION
BRIDGE No. FRA-270-2666 N
under Northbound USR-62
and RAMP "D"

FRANKLIN COUNTY I.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
[illegible]	[illegible]		[illegible]	[illegible]	5/23-70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

338
495

FRA-270-25.39N
FRA-62-20.83

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT.	GEN'L
503	928	Cu.Yds.	Excavation, Unclassified		528	400	
505	Lump Sum	Lump Sum	First Test Pile			Lump Sum	
507	760	Lin.Ft.	Steel Piles, 12 BP53			760	
509	345,429 [illegible]	Lbs.	Reinforcing Steel	207,661 [illegible]	117475 [illegible]	20,493	
511	290	Cu.Yds.	Class "C" Concrete (Abutments)			290	
511	169	Cu.Yds.	Class "C" Concrete (Piers above footings)		169		
511	257	Cu.Yds.	Class "C" Concrete (Pier footings)		257		
511	619	Cu.Yds.	Class "C" Concrete (Superstructure)	619			
513	840,123	Lbs.	Structural Steel	840,123			
514	840,123	Lbs.	Field Painting of Structural Steel	840,123			
516	93	Cu.Yds.	Porous Backfill			93	
518	127	Lin.Ft.	6" Perforated Helical Corrugated Metal Pipe, 707.01			127	
518	102	Lin.Ft.	6" Non-perforated Helical Corrugated Metal Pipe, 707.01 (including specials)			102	
518	14	Each	Scuppers including Supports	14			
601	1145	Sq.Yds.	Crushed Aggregate Slope Protection				1145
808	619	Units	Chemical Admixture for Concrete, Type A, B, or D	619			
625			See sheet 302 for lighting summary.				

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-67 (Rev. 6/12/69), RB-1-55 (Rev. 2/2/59), SD-1-69 (Dated 6/12/69) Sheets 1, 2, 3 and 4 of 4, and Supplemental Specifications 808 (Dated 11/14/69), 811 (Dated 1/1/69) and 836 (Dated 6/17/69).

DESIGN SPECIFICATIONS

This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1969, including the Ohio "Supplement" to these specifications.

DESIGN DATA

Design Loading	HS 20-44
Concrete Class C	Unit Stress 1200 p.s.i. for Superstructure Unit Stress 1333 p.s.i. for Substructure
Structural Steel	ASTM A36, Unit Stress 20,000 p.s.i.
Reinforcing Steel	ASTM A615, A616 or A617, Unit Stress 20,000 p.s.i. Spiral reinforcement shall be plain bars ASTM A306 or A499.

EMBANKMENT CONSTRUCTION

The embankments shall be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments. Excavation shall then be made for the abutments.
PILES shall be driven to a minimum bearing capacity of 40 tons per pile for abutments.

FOUNDATION BEARING PRESSURE

Pier footings are designed for a maximum bearing pressure of 2¼ tons per square foot.

UTILITY LINES

All expense involved in relocating (installing) the affected utility lines shall be borne by the Owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

LIGHTING

For details not shown, see Sheet No. 309 and Std. Constr. Drwg. HL-4.

3/19

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ESTIMATED QUANTITIES & GENERAL NOTES
BRIDGE No. FRA-270-2666N
under USR-62-N.B.& Ramp "D"

FRANKLIN COUNTY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

389
195

FRA-270-25.39N.
FRA-62-20.83

1'-6" Parapet (typ)

Footing (typ) 3'-6"

16'-6⅛"

24'-5⅜"

26'-33'-28.3"

Reference Chord

Sta 0+152+55.23

℄ Brg

℄ Girder

1'-6" 1'-6" (Typ.)

6'-0"

7'-0"

11'-0"

5'-6"

2'-5⅜"

2'-0⅜"

6"

1'-9"

Bridge Limit

109°22'32.7"

Point of Backwall Elev

72°37'35"

Elev. 835.13

Elev. 835.31

Elev. 834.06

Elev. 834.46

Type 'S' Raceway

12-A605 & 12-A608 @ 1'-0"

1'-0"

A510

2-A510

Elev. 829.50

Elev. 829.64

Elev. 829.66

Elev. 828.96

Elev. 828.26

Elev. 827.58

Elev. 826.89

Elev. 826.19

5-A511

5-A512

2-A513

2-A514

2-A515

3-A801

4-A801

3-A800-3

4-A800-3

4-A802

A508

2-A507

A509

2-A509

A504

Elev. 821.23

Elev. 819.16

11 sets A501, A502, A505 & A603

7 sets A501, A502, A504 & A602

5 sets A501, A502, A503 & A601

2 sets A501, A502, A506 & A604

7 sets A501, A502, A505 & A603

7 sets A501, A502, A504 & A602

8 sets A501, A502, A503 & A601

ELEVATION

PLAN

41 sets of A603, A606 & A607 @ 1'-0"

1'-0" 6 A605 & 6 A608 @ 1'-0"

Elev. 831.80

Elev. 830.72

Elev. 831.97

1'-6" (Typ.)

Note: All longitudinal bars above footing are N° 5 bars

Slope parallel to grade

A502

Approach Slab

℄ Bearing

A606

A605

A502

A607

Constr. Jt.

A505

¾" slope between girder seats

1'-0" Min.

1'-6" Porous Backfill

Constr. Jt.

A501

6" Crushed Aggregate Slope Protection

6" Helical Perforated CMP

6'-3"

Note: All longitudinal bars in footing are N° 8 bars

SECTION D-D

Porous Backfill, 15 ft. thick, full length of abutment and 2'-0" thick for wings, shall extend up to the subgrade or the finished ground surface

Note: All footing reinforcing steel must be 3" clear from all concrete surfaces.

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COLUMBUS, OHIO

REAR ABUTMENT

BRIDGE No FRA-270-2666N
under USR-62 NB & Ramp "D"

FRANKLIN COUNTY R 270

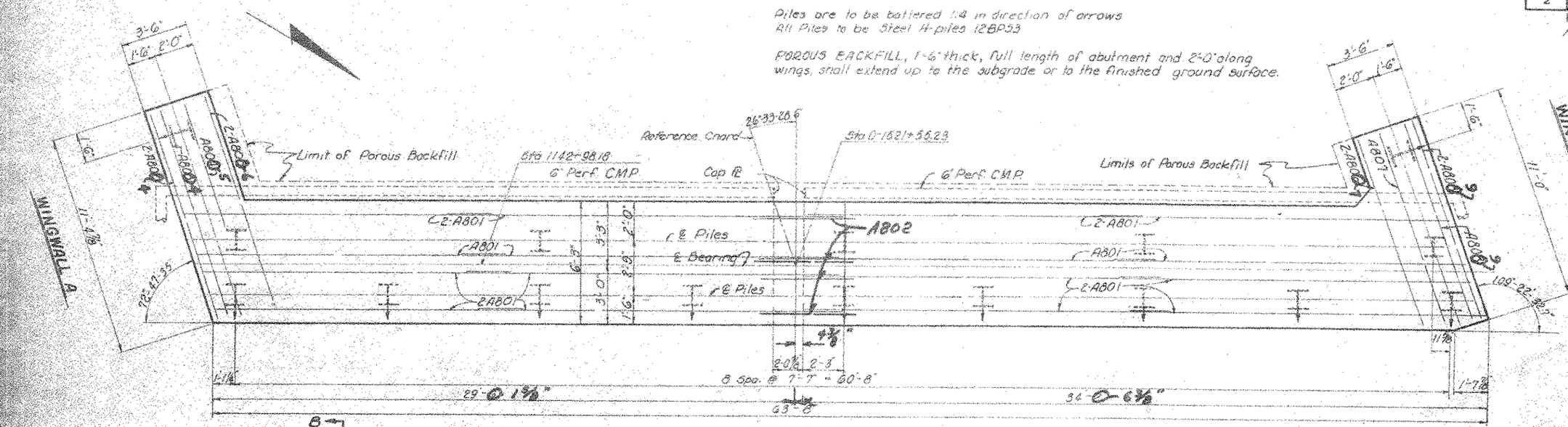
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
V.A.G.	F.D.S.		M.C.	V.A.	7/23/70

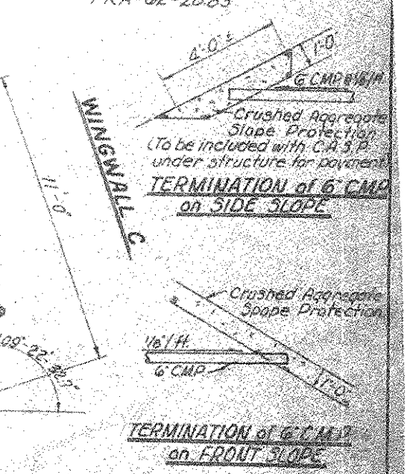
FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

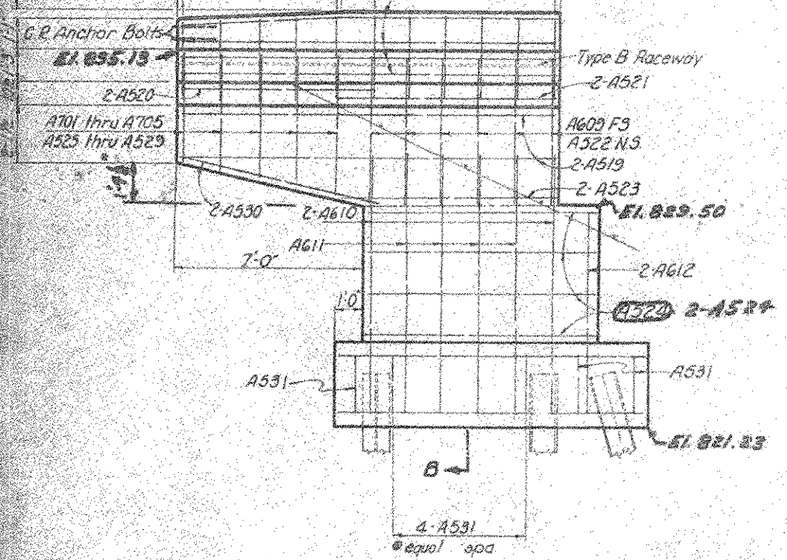
FRA-270-25.39N.
FRA-62-20.83

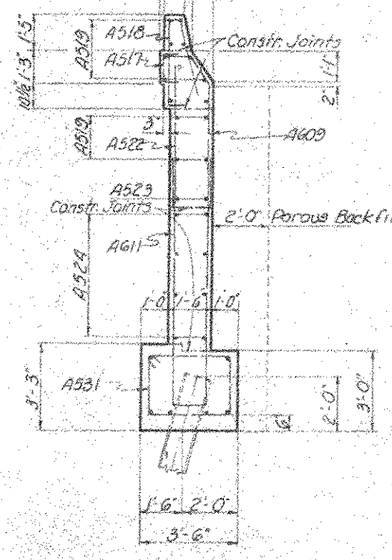
Piles are to be battered 1:4 in direction of arrows
All Piles to be Steel H-piles 12BP53

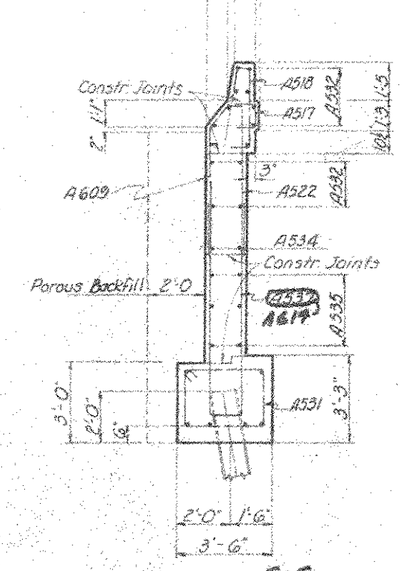
POROUS BACKFILL, 1'-6" thick, full length of abutment and 2'-0" along wings, shall extend up to the subgrade or to the finished ground surface.

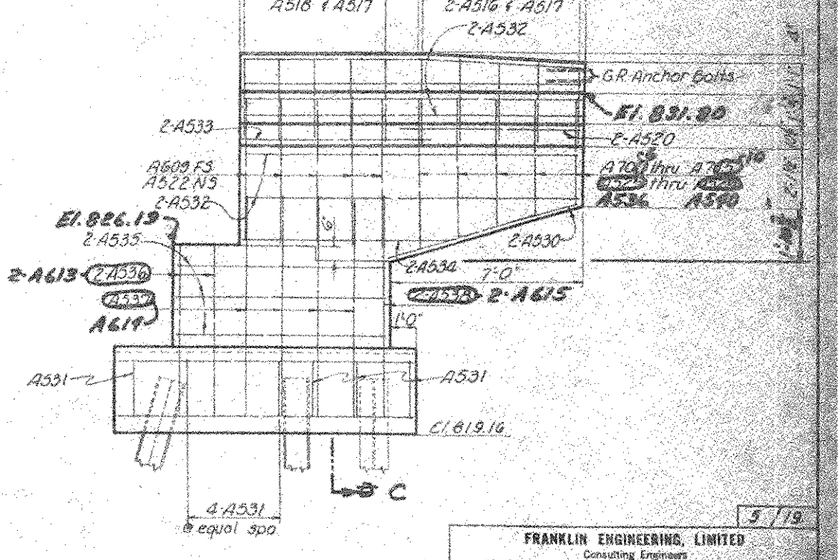












5/19

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COLUMBUS, OHIO

WING WALLS A & C & FOOTING PLAN of REAR ABUTMENTS

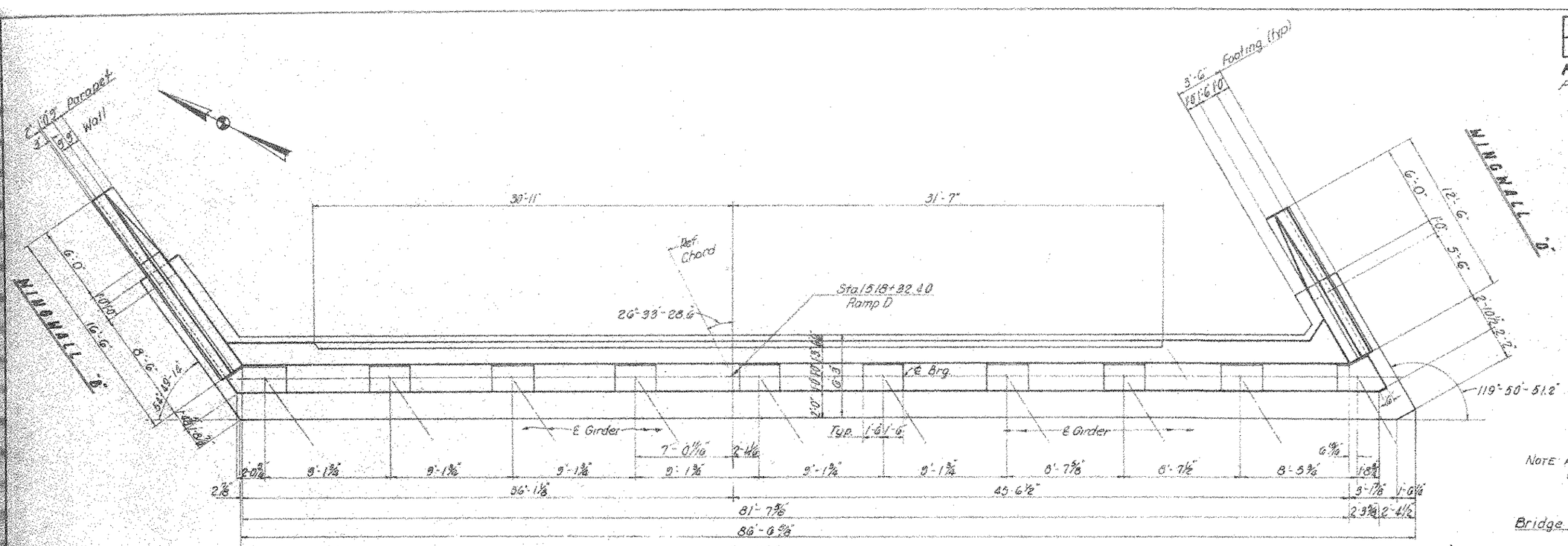
BRIDGE No. FRA-270-2666N
under USR-62NB & Ramp "D"

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	SHEET
R.A.D.	F.D.S.		M.P.			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

391
495

FAP - 270 - 25.59 N
FRA - 62 - 20.83



G/19

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COLUMBUS, OHIO

FORWARD ABUTMENT
BR. NO. FRA-270-2666 N
UNDER NORTHBOUND USR-62 AND RAMP "D"

FRANKLIN COUNTY — I.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.P.	F.S.S.		M.G.	J.F.	7/25/72	

Piles are to be battered 1:4 in direction of arrows shown.
All piles to be steel H piles 12BP53.

All piles to be steel H piles 12BP53.
Piles are to be battered 1:4 in direction of arrows shown.

FED. RD. DIVISION 2 | STATE OHIO | PROJECT
391 495

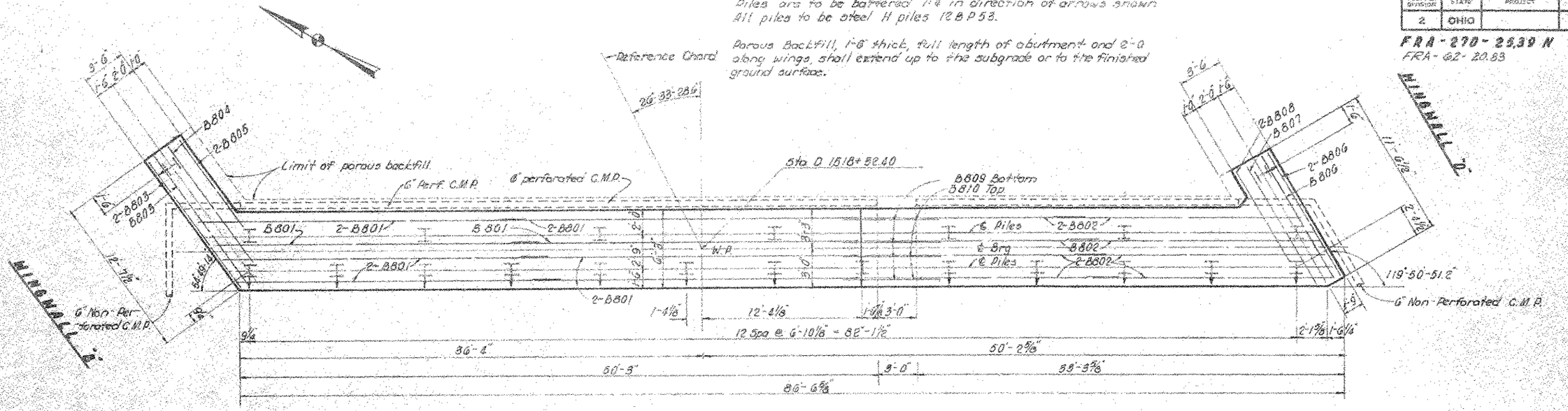
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

392
495

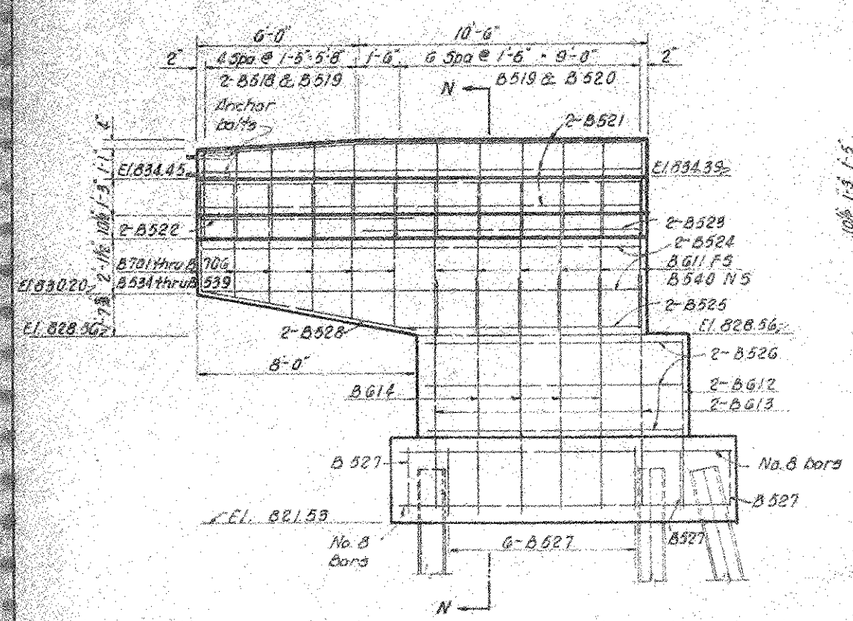
FRA-270-25.39 N
FRA-62-20.83

Piles are to be battered 1:4 in direction of arrows shown.
All piles to be steel H piles 12BP53.

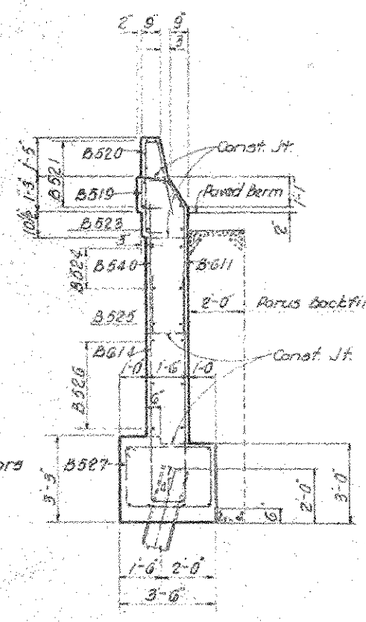
Porous Backfill, 1'-6" thick, full length of abutment and 2'-0 along wings, shall extend up to the subgrade or to the finished ground surface.



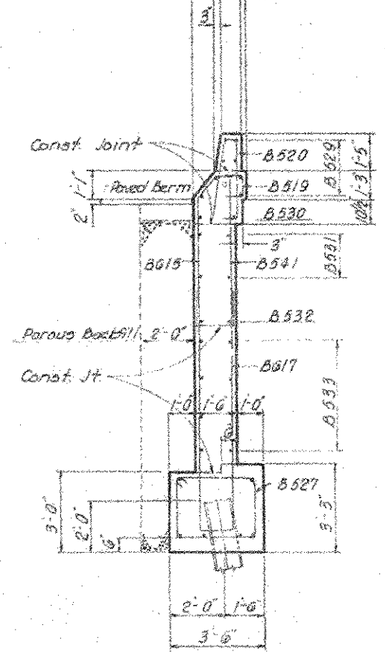
FOOTING PLAN



WINGWALL "B"



SECTION N-N



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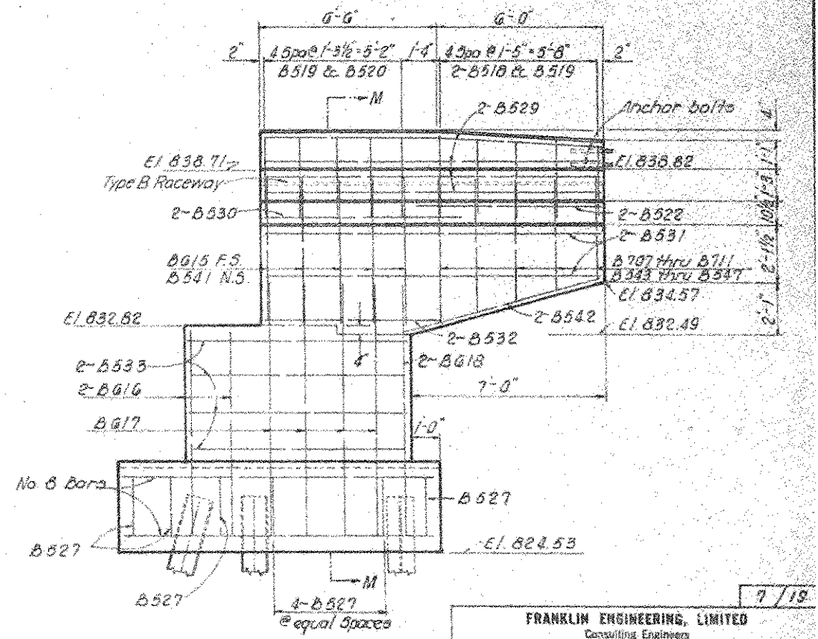


WINGWALL "D"

7/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

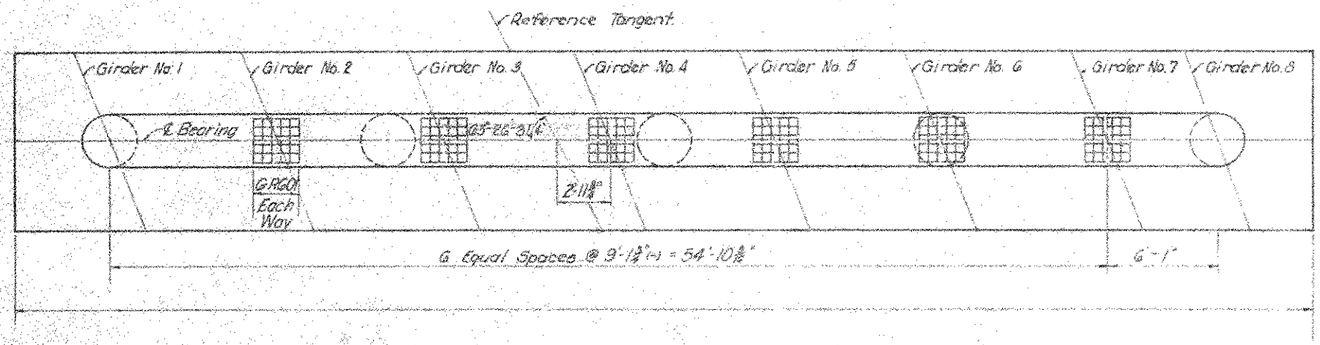
FORWARD ABUTMENT
BR. NO. FRA-270-2666 N
UNDER NORTHBOUND USR-62
AND RAMP "D"

FRANKLIN COUNTY I.R. 270

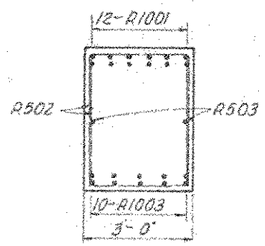
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
[illegible]	[illegible]		M.B.	[illegible]	[illegible]	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

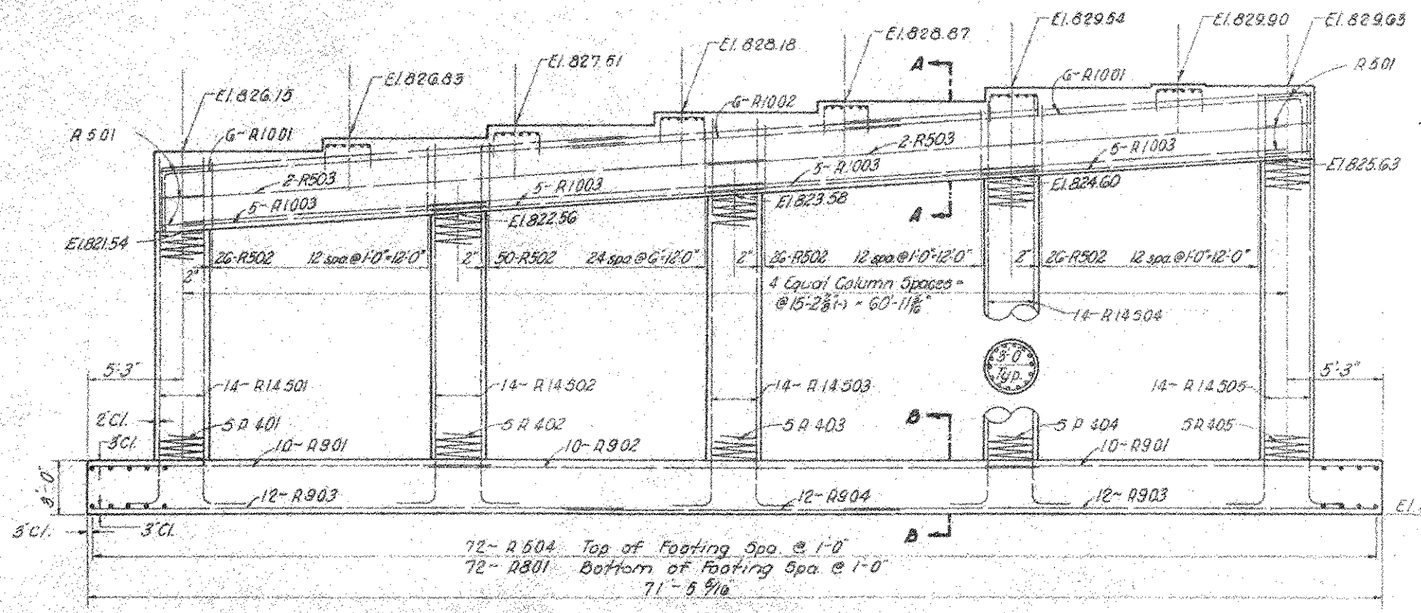
FRA-270-25.39 N
FRA-62-20.83



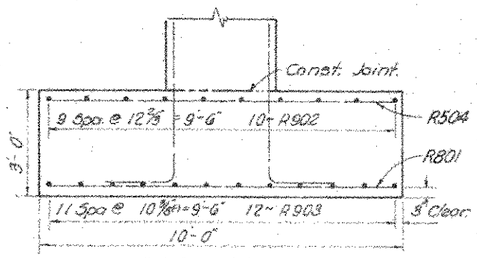
PLAN



SECTION A-A



ELEVATION



SECTION B-B

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

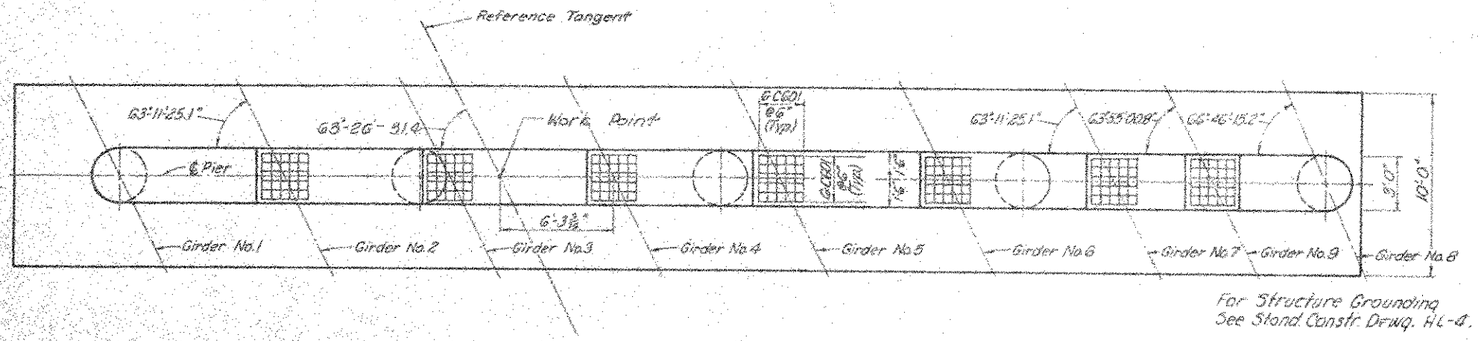
REAR PIER

BRIDGE No. FRA-270-2666N
Under NB USR 62 & Ramp "D"

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
M.G.	[illegible]		[illegible]	[illegible]	[illegible]

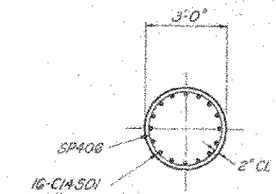
DIST. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39 N.
FRA-GR-20.83

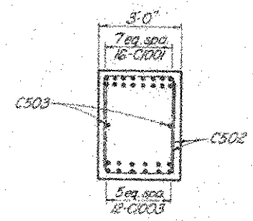


For Structure Grounding
See Stand. Constr. Drwg. HL-4.

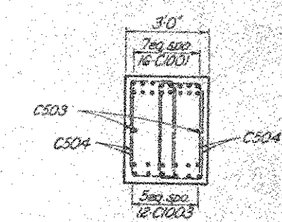
PLAN



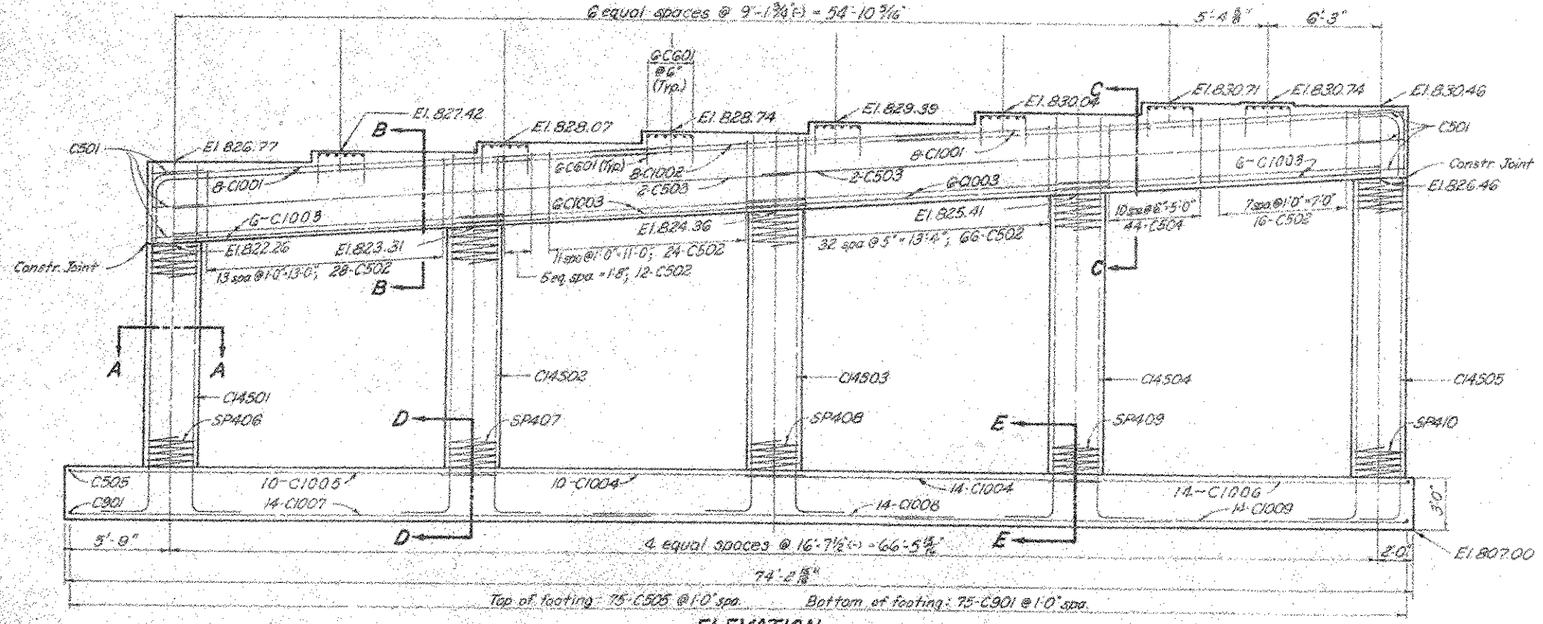
A-A
(Typical)



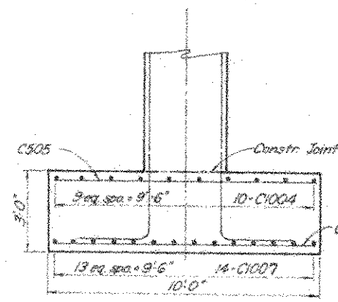
B-B



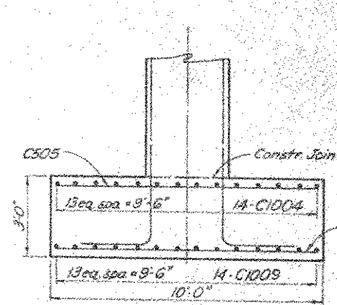
C-C



ELEVATION
Scale: 1/4" = 1'



D-D



E-E

SECTIONS
Scale: 3/8" = 1'

Note: Reinforcing steel clearances to concrete surfaces are 3 inches in the footing and 2 inches in all other areas, unless otherwise stated. (Typical all piers)

BRIDGE SEAT REINFORCING STEEL
Should be placed with care in the vicinity of the bridge seat to avoid interference with the drilling of anchor bar (bolt) holes.

9

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

CENTER PIER

BRIDGE No. FRA-270-2666 N
under Northbound USR-62
and RAMP "D"

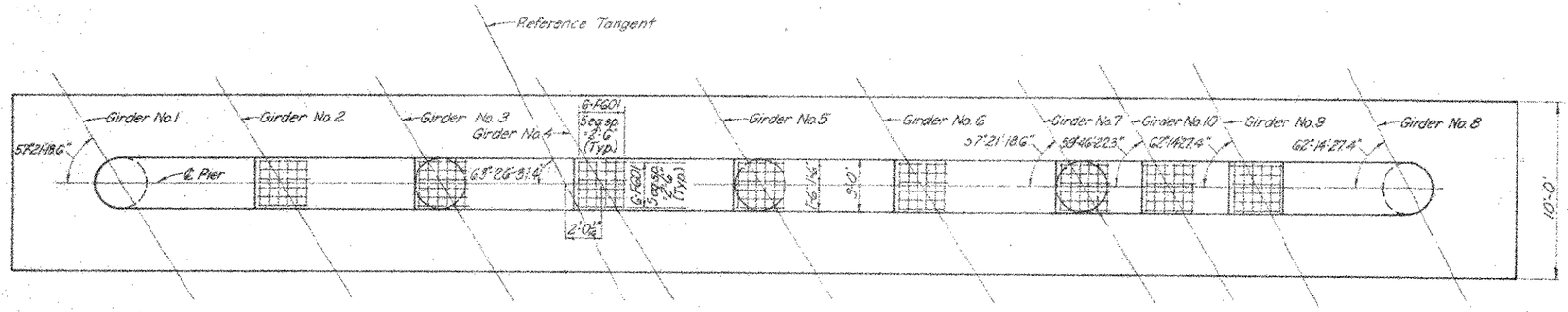
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	RECEIVED	DATE
M.C.	G.M.T.		J.A.O.	J.F.	1/25/10

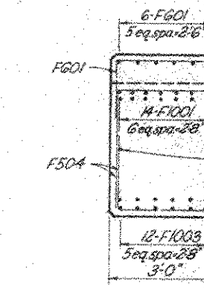
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

395
195

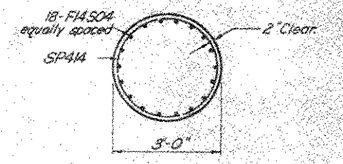
FRA-270-25.39 N.
FRA-62-20.83



PLAN



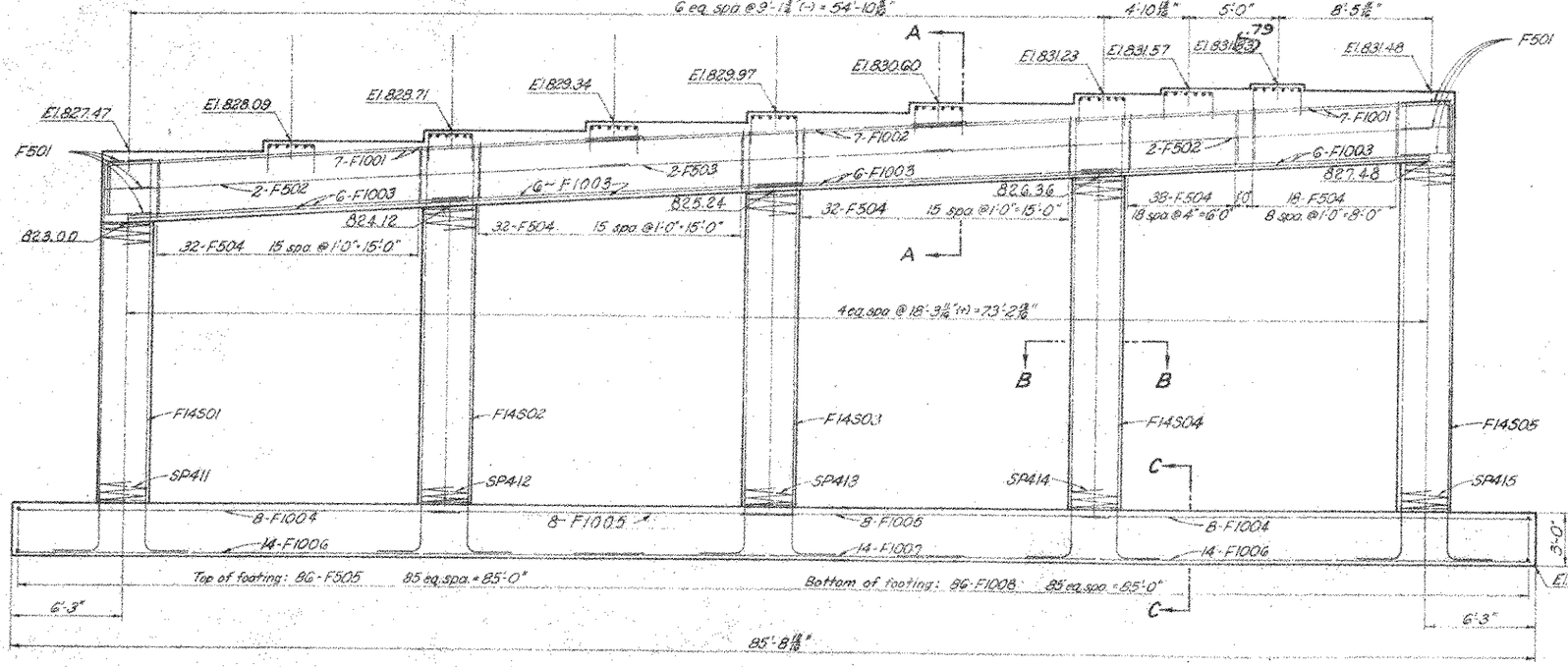
A-A



B-B

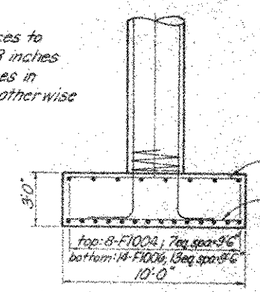
Scale: 1/2"=1'

SECTIONS



ELEVATION
Scale: 1/4"=1'

NOTE: Reinforcing steel clearances to concrete surfaces are 3 inches in the footing and 2 inches in all other areas, unless otherwise stated.



C-C

10/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FORWARD PIER

BRIDGE No. FRA-270-2666N
under Northbound USR-62
and RAMP "D"

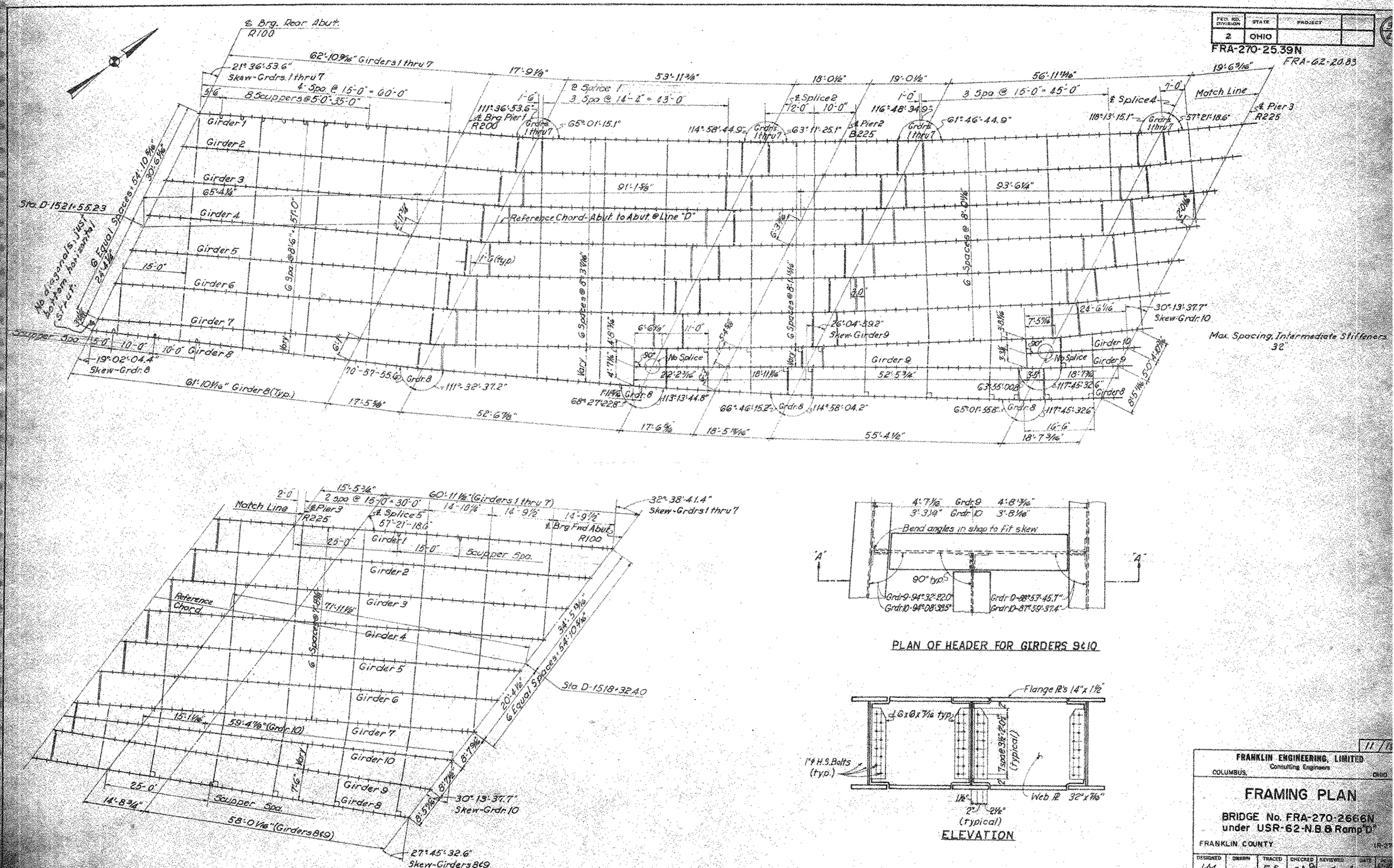
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.	BMT		JAB	JH	12-22	D-3-97

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-270-25.39N

FRA-62-20.83



FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FRAMING PLAN

BRIDGE No. FRA-270-2666N
under USR-62-N.B. & Ramp "D"

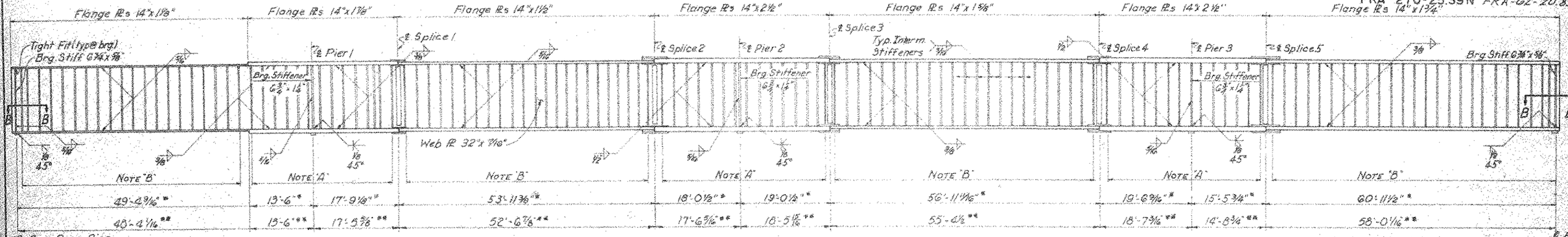
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
HM		F.D.S.	J.A.D.	JF	

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

397
495

FRA-270-25.39N FRA-62-20.83

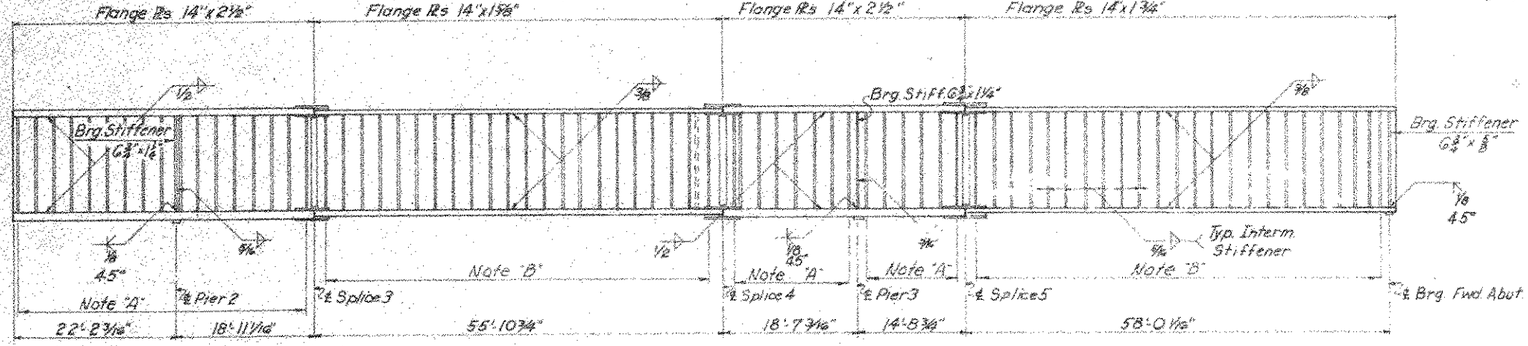


* These dimensions are for GIRDERS 1 thru 7
** These dimensions are for GIRDER 8

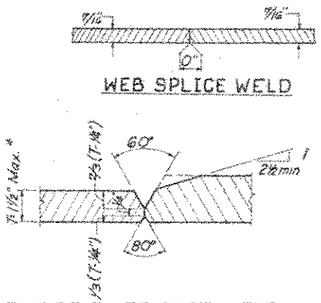
Note: Stiffeners shown are for Girder №1. For Girders №2 thru №8, see Framing Plan.

ELEVATION - GIRDERS 1 thru 8

Note "A": Stiffeners shall have contact bearing at bottom and 1¼" max. clear at top.
Note "B": Stiffeners shall have contact bearing at top and 1¼" max. clear at bottom.
Note: All bearing stiffeners must have contact bearing at top and bottom flanges.
All web stiffeners are plates 6"x 3/8"x 2'-6¼"
Flange plates to be butt welded except at splices.



ELEVATION - GIRDER 9



Welds must be centered on joint and welded on both sides.

WEB SPLICE WELD

All of the above full penetration welds shall be back-gouged and welded after welding far side. Butt welds on girder flange plates shall be ground flush, the finish grinding being parallel to the direction of stress.

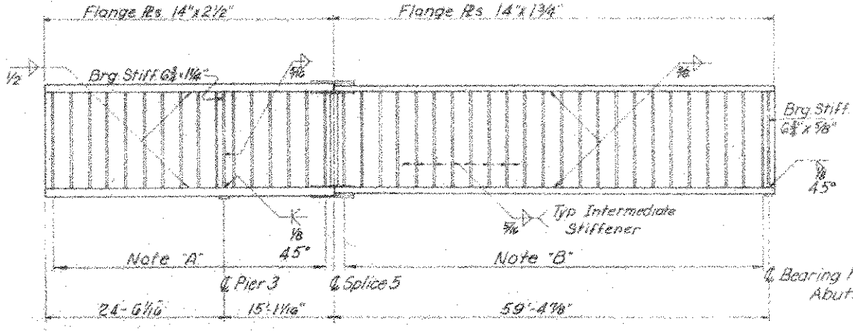
* For plate thickness over 1½" use joint preparation conforming to B-U3a-S or B-U7-S Figure 216 A.W.S. Specifications.

FLANGE PLATE BUTT WELL

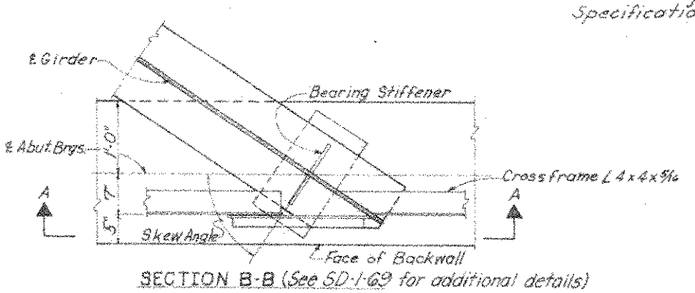
SPLICE DETAILS

TABLE OF DIMENSIONS		
Spl	"C"	Fill Pl's
1	7 spa @ 3½" = 2'-0½"	14"x⅜"
2	8 spa @ 3½" = 2'-4"	14"x 1"
3	7 spa @ 3½" = 2'-0½"	14"x ⅞"
4	7 spa @ 3½" = 2'-0½"	14"x ⅞"
5	9 spa @ 3½" = 2'-7½"	14"x ¾"

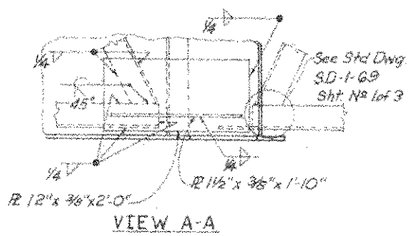
All Bolts are 1" dia. H.S. Bolts.



ELEVATION - GIRDER 10



SECTION B-B (See SD-1-69 for additional details)



VIEW A-A

12/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GIRDER DETAILS

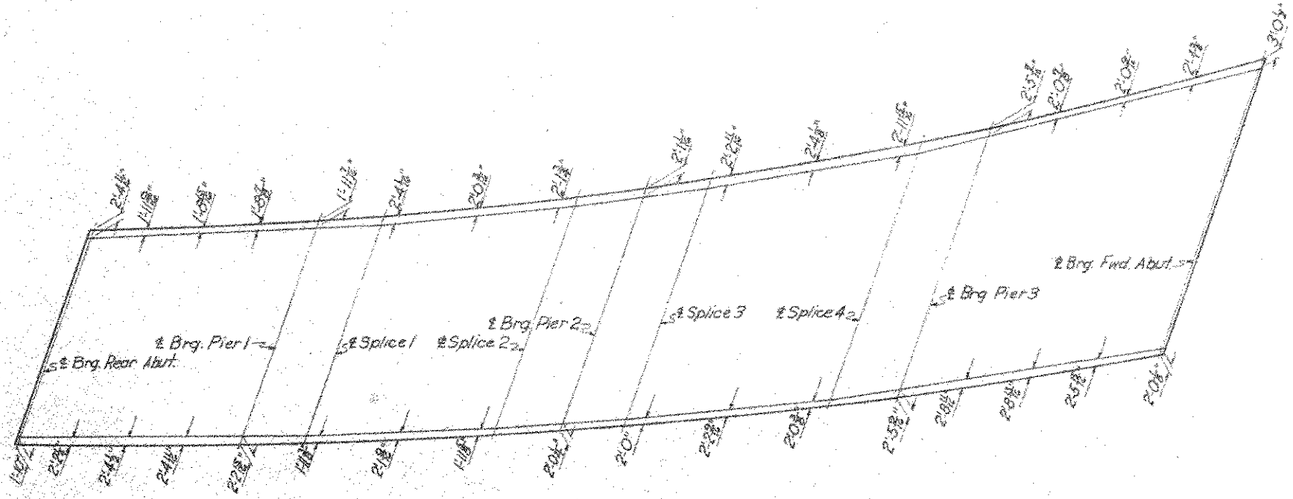
BRIDGE No. FRA-270-2666N
under USR-62N.B. & Ramp "D"

FRANKLIN COUNTY 1R-270

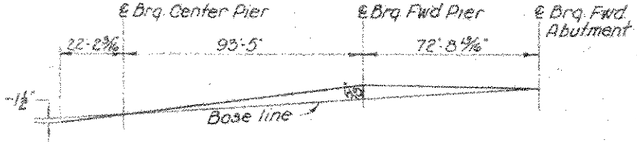
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
A.A.D.		FES		JJ	7/23/19	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

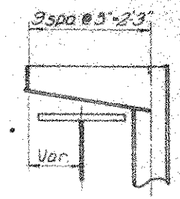
FRA-270-25.39 N
FRA-62-20.83



SLAB OFFSETS

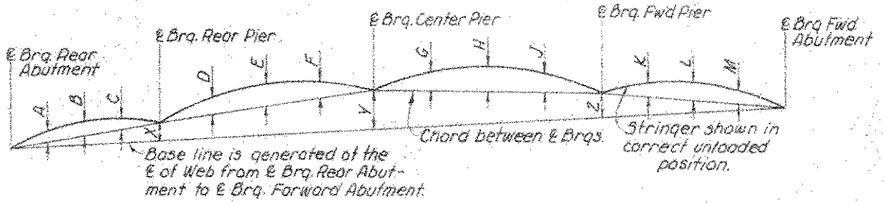


BLOCKING DIAGRAM for GIRDER No. 9



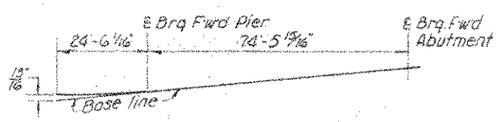
Note: For details not shown see 50-1-69, sheet 2 of 3.

SCUPPER DETAIL



GIRDER LAYOUT and BLOCKING DIAGRAM
for Girders No. 1 thru No. 8

	LOCATION X	Y	Z
Girder No. 1	7/16	15/16	3/4
Girder No. 2	3/8	7/8	3/4
Girder No. 3	7/16	15/16	11/16
Girder No. 4	1/2	1 1/8	11/16
Girder No. 5	5/8	1 1/8	15/16
Girder No. 6	9/16	1 3/16	1/8
Girder No. 7	3 9/16	5 1 3/16	2 9/16
Girder No. 8	1/16	-1/16	3/16



BLOCKING DIAGRAM for GIRDER No. 10

CAMBER and DEFLECTION TABLE

	Girders No. 1 and No. 8																								Girders No. 2 thru No. 6																							
	Span 1			Span 2			Span 3			Span 4			Span 1			Span 2			Span 3			Span 4																													
	A	B	C	D	E	F	G	H	J	K	L	M	A	B	C	D	E	F	G	H	J	K	L	M	A	B	C	D	E	F	G	H	J	K	L	M	A	B	C	D	E	F	G	H	J	K	L	M
	1/8 Pt	1/4 Pt	3/8 Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	3/8 Pt	1/8 Pt	1/4 Pt	3/8 Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	3/8 Pt	1/8 Pt	1/4 Pt	3/8 Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	3/8 Pt	1/8 Pt	1/4 Pt	3/8 Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	Spl Pt	Spl Pt	1/4 Pt	3/8 Pt
Deflection due to weight of steel	1/16	1/16	0	1/16	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8	1/16	1/16	0	1/16	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8	1/16	1/16	0	1/16	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8	1/16	1/16	0	1/16	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8
Deflection due to remaining deadload	1/4	5/16	1/16	3/8	9/16	1/4	5/16	5/8	5/16	3/16	1/2	7/16	1/4	5/16	1/16	3/8	9/16	1/4	5/16	9/16	5/16	3/16	1/2	7/16	3/16	3/16	0	7/16	11/16	5/16	1/4	9/16	5/16	3/16	1/2	7/16	3/8	3/8	0	1/2	13/16	3/8	5/16	11/16	3/8	1/4	9/16	1/2
Required Shop Camber	5/16	3/8	1/16	7/16	1 1/16	5/16	3/8	3/4	3/8	1/4	5/8	9/16	5/16	3/8	1/16	7/16	1 1/16	5/16	3/8	1 1/16	3/8	1/4	5/8	9/16	1/4	1/4	0	1/2	13/16	3/8	5/16	11/16	3/8	1/4	9/16	1/2	–	–	–	–	–	1/16	7/16	13/16	3/8	5/16	1/2	7/16

	Girder No. 7												Girder No. 9												Girder No. 10											
	Span 1			Span 2			Span 3			Span 4			Span 1			Span 2			Span 3			Span 4			Span 1			Span 2			Span 3			Span 4		
	A	B	C	D	E	F	G	H	J	K	L	M	A	B	C	D	E	F	G	H	J	K	L	M	A	B	C	D	E	F	G	H	J	K	L	M
	1/4 Pt	1/2 Pt	3/4 Pt	Spl Pt	1/2 Pt	Spl Pt	Spl Pt	1/2 Pt	Spl Pt	Spl Pt	1/2 Pt	3/4 Pt	1/4 Pt	1/2 Pt	3/4 Pt	Spl Pt	1/2 Pt	Spl Pt	Spl Pt	1/2 Pt	Spl Pt	Spl Pt	1/2 Pt	3/4 Pt	1/4 Pt	1/2 Pt	3/4 Pt	Spl Pt	1/2 Pt	Spl Pt	Spl Pt	1/2 Pt	Spl Pt	Spl Pt	1/2 Pt	3/4 Pt
Deflection due to weight of steel	1/16	1/16	0	1/16	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8	1/16	1/16	0	1/16	1/8	1/16	1/16	1/8	1/16	1/16	1/8	1/8	–	–	–	–	–	1/16	1/16	3/16	1/16	1/16	1/8	1/8	–	–	–	–	–	–	–	–	1/8	0	1/16	1/16
Deflection due to remaining deadload	3/16	3/16	0	7/16	11/16	5/16	1/4	9/16	5/16	3/16	7/16	3/8	1/16	3/16	0	7/16	11/16	5/16	1/4	9/16	5/16	3/16	7/16	3/8	–	–	–	–	–	1/16	3/16	5/16	3/16	1/8	3/16	5/16	–	–	–	–	–	–	–	–	3/16	1/16	1/8	1/4
Required Shop Camber	1/4	1/4	0	1/2	13/16	3/8	5/16	11/16	3/8	1/4	9/16	1/2	–	–	–	–	–	1/16	7/16	13/16	3/8	5/16	1/2	7/16	–	–	–	–	–	–	–	–	5/16	1/16	5/16	5/16

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE No. FRA-270-2666 N
under Northbound USR-62
and RAMP "D"

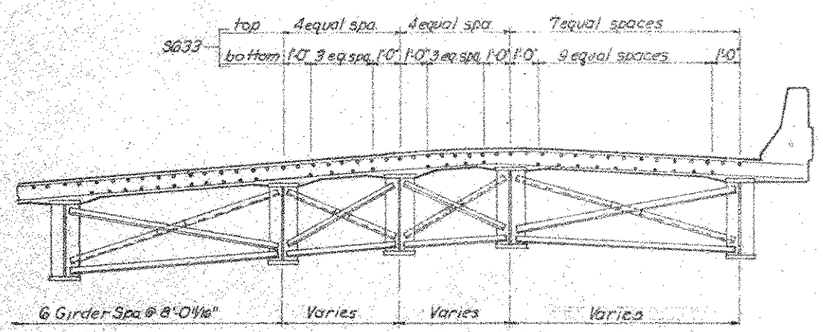
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
A.B.P.	[illegible]		M.O.	JF	9/25/70

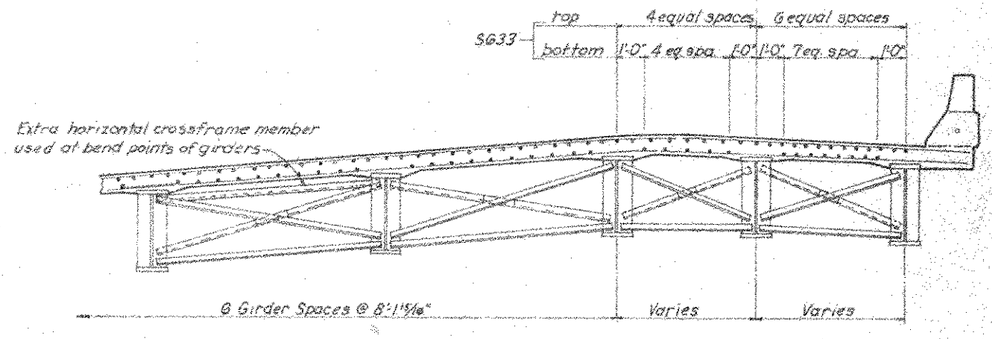
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

399/495

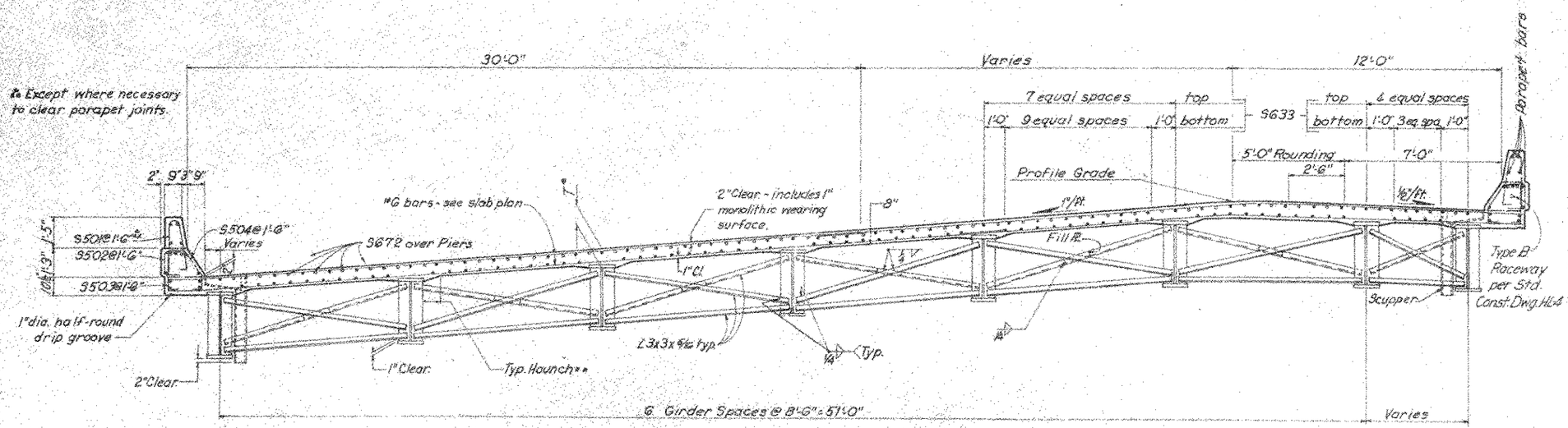
FRA-270-25.39N
FRA-62-20.83



SECTION C-C



SECTION B-B



SECTION A-A

* This is the design dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deductions shall be made for the volume of encased steel plates as per Section 511.19 of the Construction and Material Specifications.

** A typical haunch width of 9" shall be used for computing the quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.

PARAPET BARS:

SG73	bars for	14'-9 7/8"	Parapets
SG74	bars for	7'-4 9/16"	Parapets
SG75	bars for	14'-3 1/16"	Parapets
SG76	bars for	7'-1 1/8"	Parapets

* T - for slab depth see sheet 17/19

14/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

TRANSVERSE SECTIONS

BRIDGE No. FRA-270-2666N
under USR-62NB & Ramp "D"

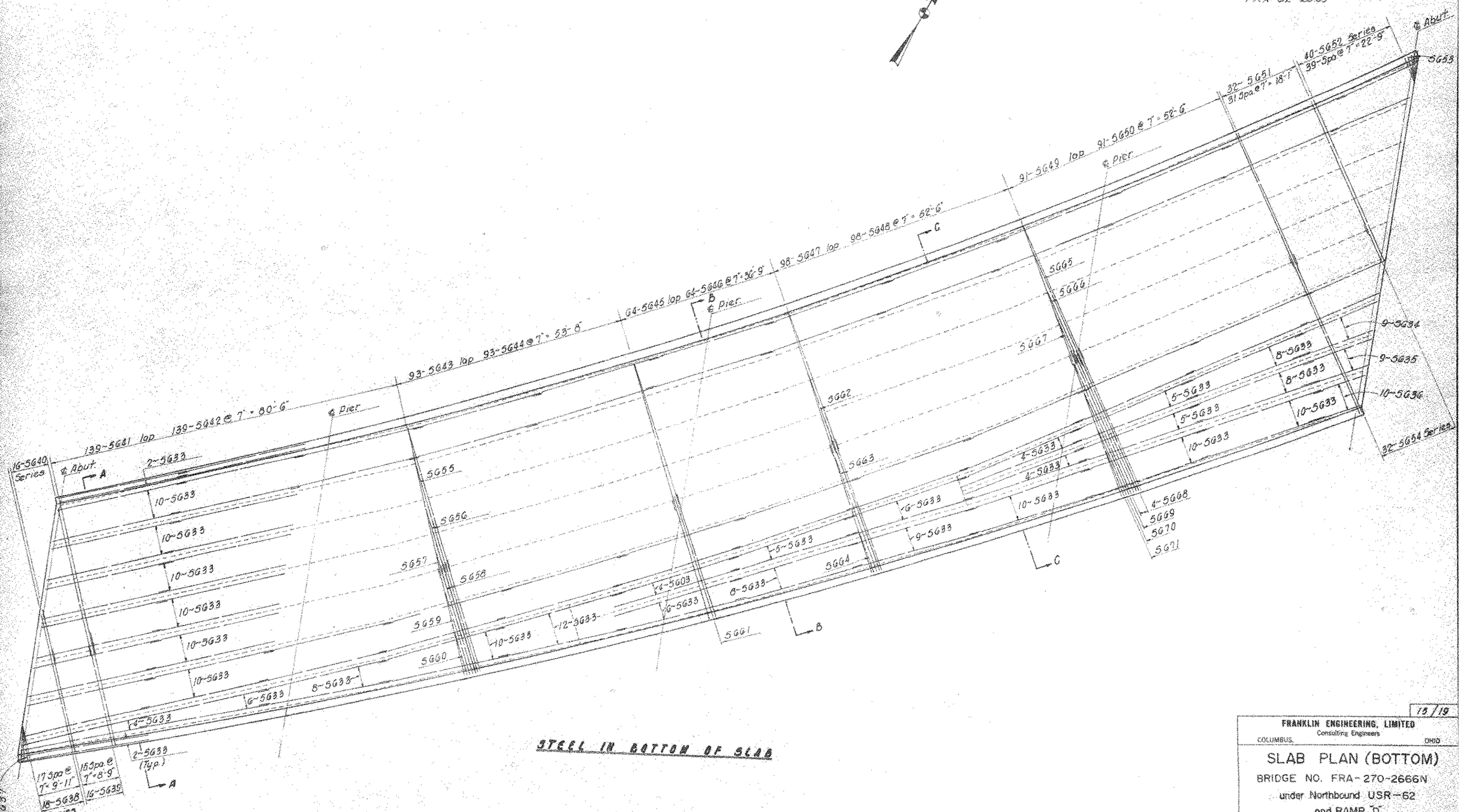
FRANKLIN COUNTY — TR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.P.O.	FDS	FDS	M.G.			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

400/495

FRA-270-25.39N
FRA-62-20.83



STEEL IN BOTTOM OF SLAB

15/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SLAB PLAN (BOTTOM)
BRIDGE NO. FRA-270-2666N
under Northbound USR-62
and RAMP "D"

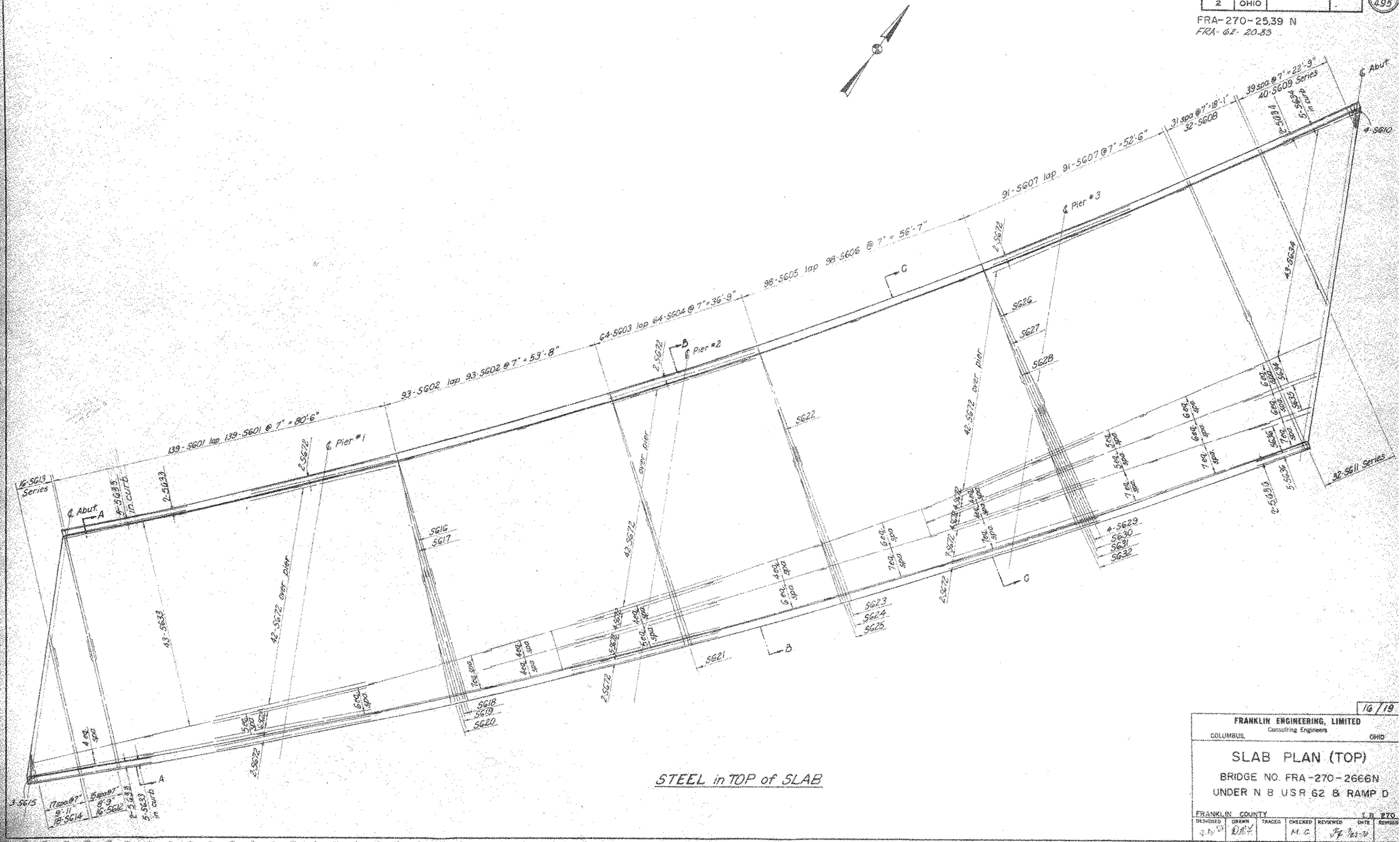
FRANKLIN COUNTY I.R-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.D.	F.G.		M.G.	JF	1/23/70	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

401/495

FRA-270-25.39 N
FRA-62-20.83



STEEL in TOP of SLAB

16/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SLAB PLAN (TOP)

BRIDGE NO. FRA-270-2666N
UNDER N B USR 62 & RAMP D

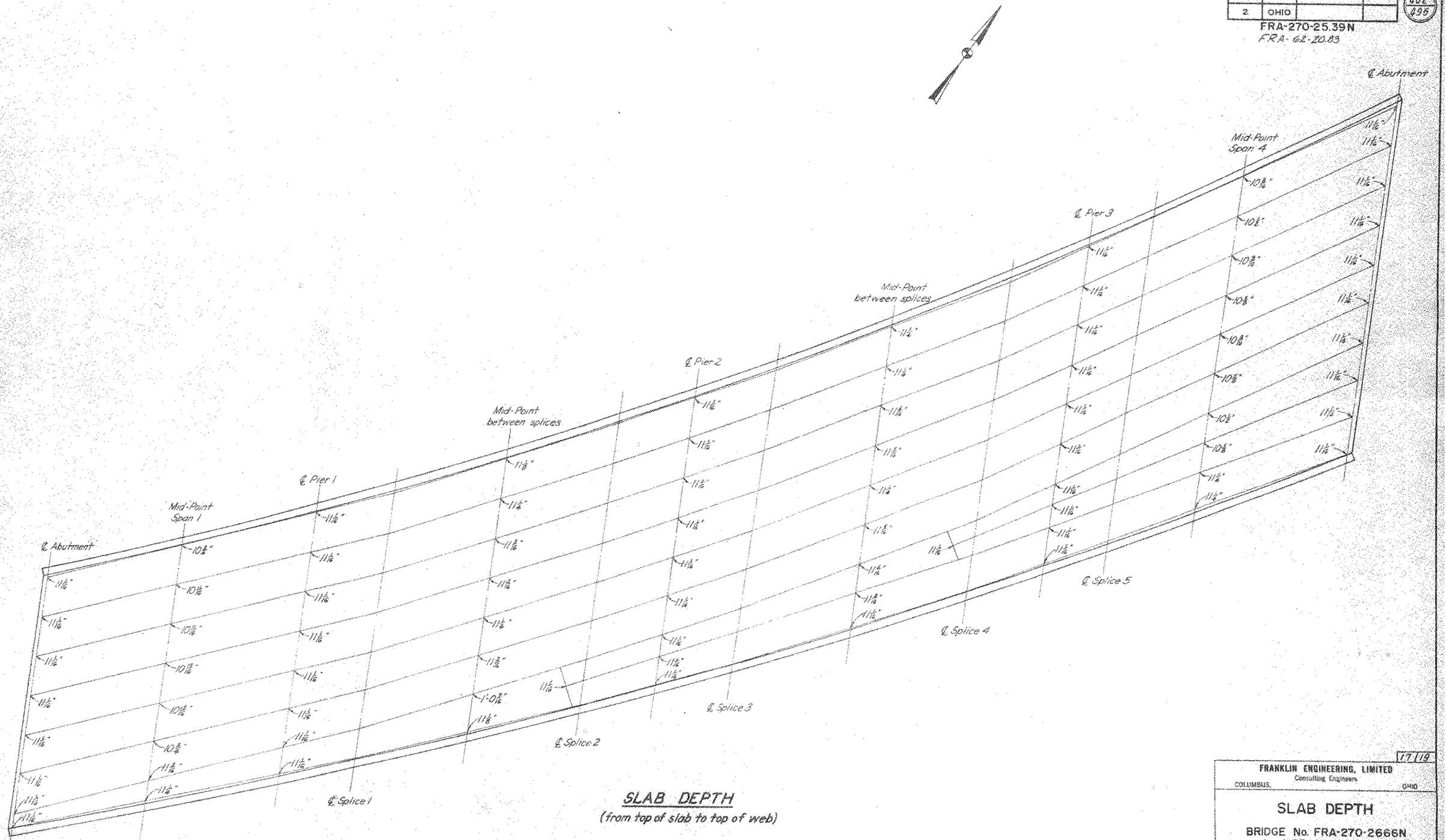
FRANKLIN COUNTY I.B. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	DMF		M.C.			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

402
495

FRA-270-25.39N
FRA-62-20.83



SLAB DEPTH

(from top of slab to top of web)

17719

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

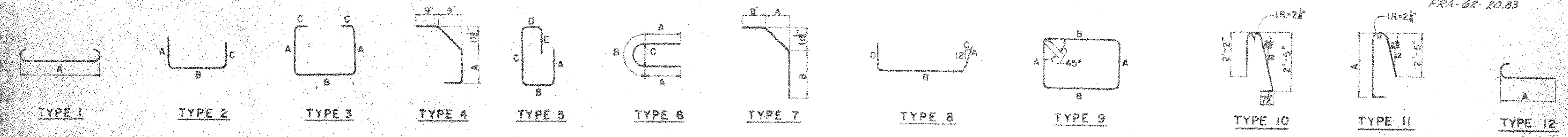
SLAB DEPTH

BRIDGE No. FRA-270-2666N
under USR-62-N.B.& Ramp "D"

FRANKLIN COUNTY 1R-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.P.	DMF		M.G.	JF	8-3-70	

FRA-270-2539 N
FRA-62-20.83



REAR ABUTMENT

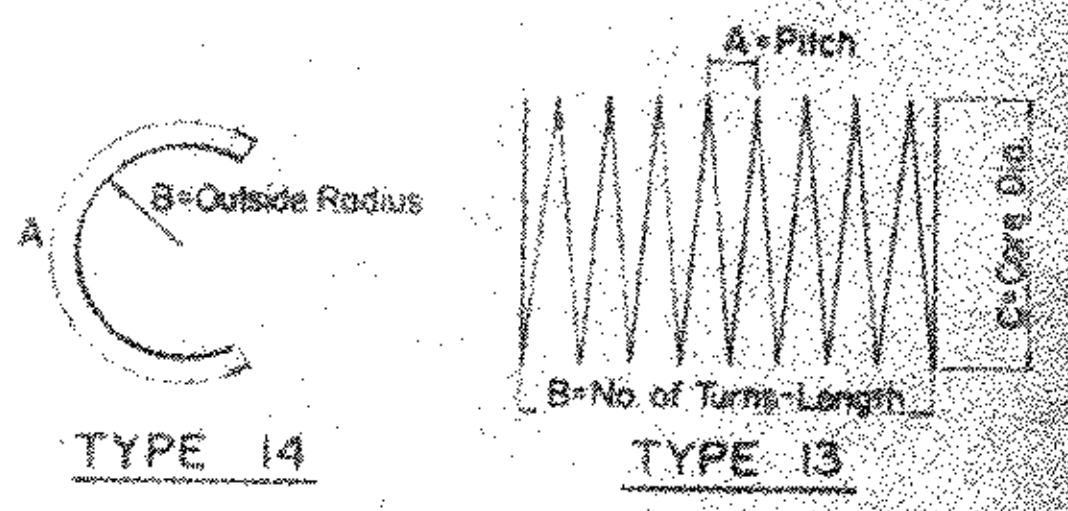
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A801	14	18'-6"	Str.						692
A802	4	8'-10"	15						94
A803	14	17'-6"	Str.						654
A804	3	11'-1"	Str.						89
A805	1	6'-6"	Str.						17
A806	3	11'-9"	Str.						63
A807	2	10'-1"	Str.						54
A808	1	10'-4"	Str.						28
A809	3	10'-8"	Str.						85
A701	1	4'-4"	Str.						9
A702	1	5'-0"	7	2¼	3'-5"				10
A703	1	5'-4"	7	4"	3'-8"				11
A704	1	5'-8"	7	6"	3'-11"				12
A705	1	6'-0"	7	9"	4'-2"				12
A706	1	4'-4"	Str.						9
A707	1	5'-1"	7	2¼	3'-6"				10
A708	1	5'-7"	7	4"	3'-11"				11
A709	1	6'-0"	7	6"	4'-3"				12
A710	1	6'-6"	7	9"	4'-8"				13
A601	13	14'-2"	2	6'-7"	5'-4"	2'-7"			277
A602	14	14'-10"	2	7'-3"	5'-4"	2'-7"			312
A603	18	15'-5"	2	7'-10"	5'-4"	2'-7"			417
A604	3	16'-3"	2	8'-8"	5'-4"	2'-7"			73
A605	59	7'-1"	2	3'-0"	1'-5"	3'-0"			628
A606	41	7'-3"	2	3'-4"	11"	3'-4"			446
A607	41	10'-7"	2	4'-9"	1'-5"	4'-9"			652
A608	18	13'-3"	2	6'-1"	1'-5"	6'-1"			358
A609	11	6'-8"	7	9"	4'-8"				110
A610	4	9'-9"	Str.						59
A611	4	20'-4"	2	9'-9"	1'-2"	9'-9"			122
A612	2	7'-7"	Str.						23
A613	4	6'-4"	Str.						38
A614	4	17'-10"	2	8'-6"	1'-2"	8'-6"			107
A615	2	8'-6"	Str.						26
A501	48	8'-3"	2	1'-7"	5'-4"	1'-7"			413
A502	48	6'-4"	2	1'-7"	3'-5"	1'-7"			317
A503	13	7'-1"	2	6'-6"	0'-8"	0"			96
A504	14	7'-9"	2	7'-2"	0'-8"	0"			113
A505	18	8'-4"	2	7'-9"	0'-8"	0"			156
A506	3	9'-2"	2	8'-7"	0'-8"	0"			29
A507	12	24'-0"	Str.						300
A508	4	24'-0"	Str.						100
A509	7	7'-0"	Str.						51
A510	7	12'-9"	Str.						93
A511	5	15'-0"	Str.						78
A512	25	12'-6"	Str.						326
A513	12	17'-0"	Str.						213
A514	2	21'-3"	Str.						44
A515	8	16'-0"	Str.						138
A516	20	3'-0"	Str.						63
A517	21	2'-0"	2	7½	1'-0"	7½			44

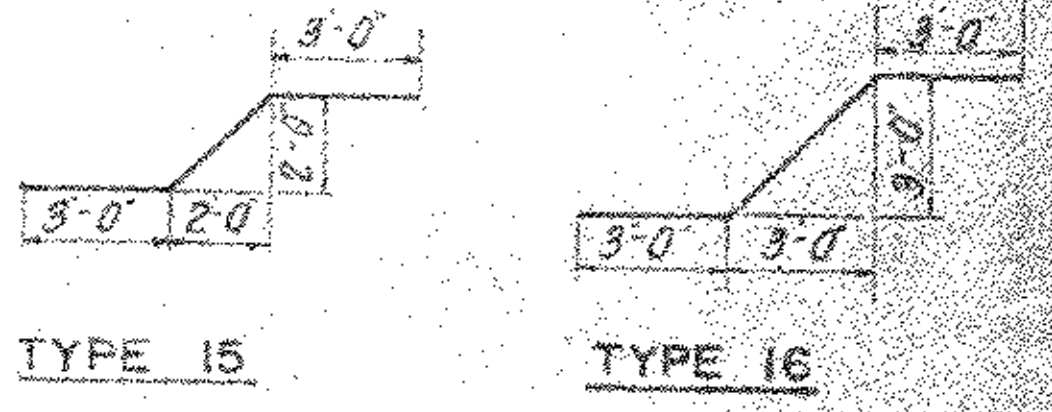
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A518	11	6'-4"	11	3'-5"					73
A519	12	13'-8"	Str.*	* bend in field where necessary					171
A520	4	7'-7"	Str.						32
A521	2	7'-8"	Str.						16
A522	11	5'-0"	Str.						57
A523	2	8'-0"	Str.						17
A524	8	8'-3"	Str.						69
A525	1	3'-6"	Str.						4
A526	1	3'-9"	Str.						4
A527	1	4'-0"	Str.						4
A528	1	4'-3"	Str.						4
A529	1	4'-6"	Str.						5
A530	4	7'-6"	Str.						31
A531	15	11'-2"	9	2'-4"	3'-0"				175
A532	12	12'-2"	Str.*	* Bend in field where necessary					152
A533	2	6'-2"	Str.						13
A534	2	7'-9"	Str.						16
A535	6	7'-8"	Str.						48
A536	1	3'-6"	Str.						4
A537	1	3'-10"	Str.						4
A538	1	4'-3"	Str.						4
A539	1	4'-7"	Str.						5
A540	1	5'-0"	Str.						5
							Subtotal		9020

FORWARD ABUTMENT

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
B801	14	28'-3"	Str.						1056
B802	14	19'-9"	Str.						738
B803	3	12'-4"	Str.						99
B804	1	11'-3"	Str.						30
B805	2	8'-3"	Str.						44
B806	3	11'-2"	Str.						89
B807	1	10'-8"	Str.						28
B808	2	8'-0"	Str.						43
B809	4	10'-3"	16						109
B810	3	7'-11"	17						63
B701	1	4'-4"	Str.						9
B702	1	5'-0"	7	2¼	3'-5"				10
B703	1	5'-5"	7	4	3'-9"				11
B704	1	5'-9"	7	6"	4'-0"				12
B705	1	6'-2"	7	9"	4'-4"				13
B706	1	6'-5"	7	9"	4'-7"				13
B707	1	4'-4"	Str.						9
B708	1	5'-1"	7	2¼	3'-6"				10
B709	1	5'-7"	7	4"	3'-11"				11
B710	1	6'-0"	7	6"	4'-3"				12
B711	1	6'-6"	7	9"	4'-8"				13
B601	10	14'-2"	2	2'-7"	5'-4"	6'-7"			213
B602	13	14'-9"	2	2'-7"	5'-4"	7'-2			288
B603	21	15'-5"	2	2'-7"	5'-4"	7'-10			486
B604	6	16'-0"	2	2'-7"	5'-4"	8'-5"			144
B605	7	16'-7"	2	2'-7"	5'-4"	9'-0"			174
B606	3	17'-2"	2	2'-7"	5'-4	9'-7"			77
B607	62	7'-1"	2	3'-0"	1'-5"	3'-0"			660

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
B608	62	7'-1"	2	3'-3"	0'-11"	3'-3"			660
B609	83	10'-9"	2	4'-10"	1'-5"	4'-10"			1340
B610	21	7'-7"	2	3'-3"	1'-5"	3'-3"			239
B611	6	6'-8"	7	0'-9"	4'-9"				60
B612	2	6'-4"	Str.						19
B613	4	8'-6"	Str.						51
B614	4	17'-10"	2	8'-6"	1'-2"	8'-6"			107
B615	5	6'-8"	7	0'-9"	4'-9"				50
B616	4	7'-7"	Str.						46
B617	4	20'-4"	2	9'-9"	1'-2"	9'-9"			122
B618	2	9'-9"	Str.						29
B501	60	8'-3"	2	1'-7"	5'-4"	1'-7"			516
B502	60	6'-4"	2	1'-7"	3'-5"	1'-7			396
B503	10	7'-0"	2	6'-6"	0'-8"	0"			73
B504	13	7'-7"	2	7'-1"	0'-8"	0"			103
B505	21	8'-3"	2	7'-9"	0'-8"	0"			181
B506	6	8'-10"	2	8'-4"	0'-8"	0"			55
B507	7	9'-5"	2	8'-11"	0'-8"	0"			69
B508	3	10'-0"	2	9'-6"	0'-8"	0"			31
B509	18	23'-0"	Str.						432
B510	6	23'-0"	Str.						144
B511	7	7'-6"	Str.						55
B512	7	14'-0"	Str.						102
B513	35	12'-0"	Str.						438
B514	5	19'-10"	Str.						103
B515	4	30'-0"	Str.						125
B516	8	24'-9"	Str.						207
B517	8	19'-0"	Str.						169
B518	20	3'-0"	Str.						63
B519	22	2'-0"	2 (Str.)	7½	1'-0"	7½			46
B520	12	6'-4"	11	3'-3"					79
B521	8	16'-2"	Str.*	* Bend in field where necessary					135
B522	4	7'-7"	Str.						32
B523	2	10'-4"	Str.						22
B524	4	16'-2"	Str.						67
B525	2	8'-6"	Str.						18
B526	6	9'-6"	Str.						59
B527	17	11'-2"	9	2'-4"	3'-0"				198
B528	2	8'-0"	Str.						17
B529	8	12'-2"	Str.*	* Bend in field where necessary					102
B530	2	6'-4"	Str.						13
B531	4	12'-2"	Str.						51
B532	2	7'-0"	Str.						15
B533	8	8'-1"	Str.						67
B534	1	2'-10"	Str.						3
B535	1	3'-1"	Str.						3
B536	1	3'-5"	Str.						4
B537	1	3'-8"	Str.						4
B538	1	4'-0"	Str.						4
B539	1	4'-3"	Str.						4
B540	6	4'-9"	Str.						30
B541	5	4'-11"	Str.						26
B542	2	7'-6"	Str.						16
B543	1	2'-10"	Str.						3
B544	1	3'-2"	Str.						3
B545	1	3'-7"	Str.						4
B546	1	3'-11"	Str.						4
B547	1	4'-4"	Str.						5
							Total		20,495

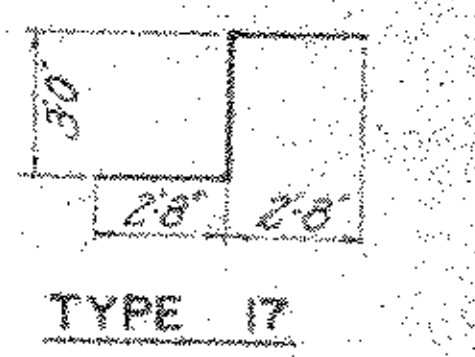




NOTES:

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximatly 0.80 lbs per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example A506 is a No. 5 size bar and P1101 is a No. 11 size bar.



18/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

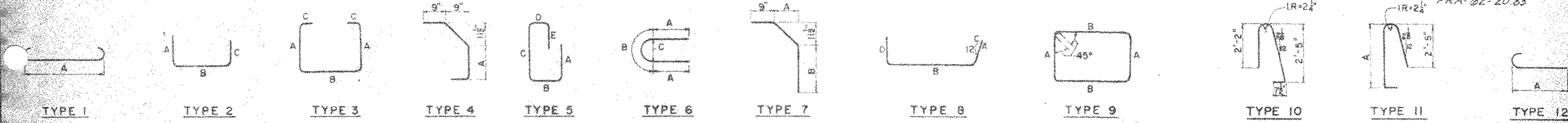
REINFORCING STEEL

BRIDGE NO. FRA-270-2666N
UNDER N.B. U.S.R. 62 & RAMP D

FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.A.B.	F.G.		H.C.	J.F.	

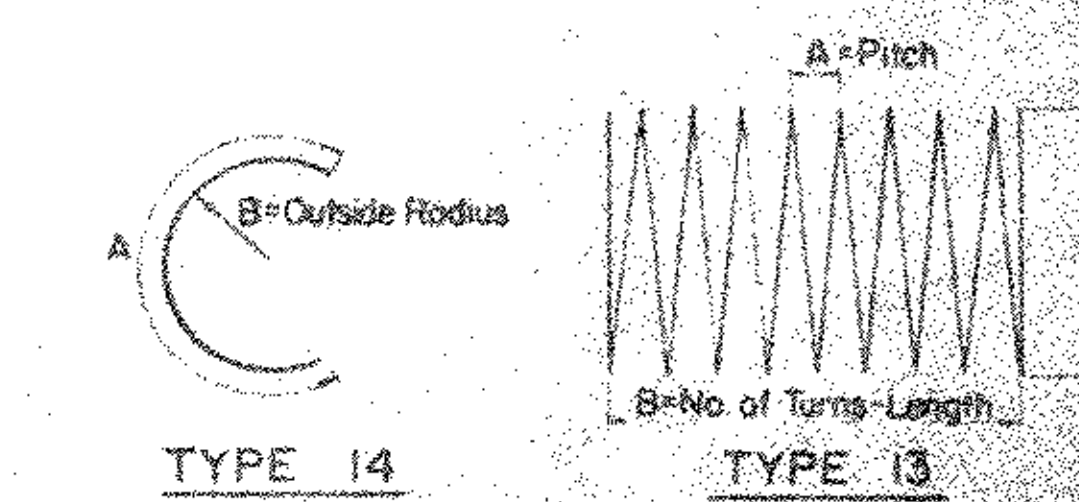
FRA-270-2539N
FRA-62-20.83



SUPERSTRUCTURE									
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
5601	278	32'-0"	Str.						13362
5602	186	33'-0"	Str.						9219
5603	64	31'-0"	Str.						2980
5604	64	37'-0"	Str.						3557
5605	98	30'-0"	Str.						4416
5606	98	40'-0"	Str.						5888
5607	182	36'-9"	Str.						10046
5608	32	36'-9"	Str.						1766
5609	40	*	Str.	*Varies from 41'-3" to 5'-10⅞" in Δ = 10⅜"					1417
5610	8	5'-3"	Str.						32
5611	32	*	Str.	*Varies from 36'-9" to 8'-7⅞" in Δ = 10⅞"					1091
5612	16	32'-0"	Str.						769
5613	16	*	Str.	*Varies from 32'-0" to 10'-1½" in Δ = 1'-5½"					506
5614	18	*	Str.	*Varies from 33'-0" to 7'-6" in Δ = 1'-6"					547
5615	3	7'-0"	Str.						32
5616	1	22'-0"	Str.						33
5617	1	13'-0"	Str.						20
5618	3	33'-0"	Str.						149
5619	1	24'-0"	Str.						36
5620	1	15'-0"	Str.						23
5621	1	36'-0"	Str.						54
5622	1	14'-0"	Str.						21
5623	1	40'-0"	Str.						60
5624	1	32'-0"	Str.						48
5625	1	16'-0"	Str.						24
5626	1	31'-0"	Str.						47
5627	1	22'-6"	Str.						34
5628	1	14'-0"	Str.						21
5629	4	31'-6"	Str.						189
5630	1	26'-0"	Str.						39
5631	1	20'-0"	Str.						30
5632	1	10'-0"	Str.						15
5633	1586	30'-0"	Str.						71465
5634	127	20'-0"	Str.						3815
5635	15	18'-0"	Str.						406
5636	26	14'-0"	Str.						547
5637	3	7'-0"	Str.						32
5638	18	*	Str.	*Varies from 33'-0" to 7'-6" in Δ = 1'-6"					547
5639	16	24'-0"	Str.						577
5640	16	*	Str.	*Varies from 36'-0" to 13'-6" in Δ = 1'-6"					595
5641	139	37'-6"	Str.						7829
5642	139	26'-6"	Str.						5533
5643	93	37'-0"	Str.						5168
5644	93	29'-0"	Str.						4051
5645	64	36'-0"	Str.						3461
5646	64	30'-0"	Str.						2884
5647	98	35'-0"	Str.						5152
5648	98	33'-0"	Str.						4857
5649	91	33'-6"	Str.						4579
5650	91	39'-6"	Str.						5399
5651	32	33'-6"	Str.						1610
5652	40	*	Str.	*Varies from 41'-3" to 5'-10⅞" in Δ = 10⅞"					1417
5653	4	5'-6"	Str.						33

SUPERSTRUCTURE (Con't.)									
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
5654	32	*	Str.	*Varies from 39'-6" to 11'-4⅞" in Δ = 10⅞"					1223
5655	1	26'-0"	Str.						39
5656	1	17'-0"	Str.						26
5657	1	5'-6"	Str.						8
5658	3	27'-0"	Str.						122
5659	1	21'-0"	Str.						32
5660	1	11'-0"	Str.						17
5661	1	30'-0"	Str.						45
5662	1	19'-0"	Str.						29
5663	2	33'-0"	Str.						99
5664	1	12'-0"	Str.						18
5665	1	30'-0"	Str.						45
5666	1	21'-0"	Str.						32
5667	1	11'-0"	Str.						17
5668	4	35'-6"	Str.						213
5669	1	27'-6"	Str.						41
5670	1	17'-6"	Str.						26
5671	1	9'-0"	Str.						14
5672	168	38'-0"	Str.						9589
5673	60	14'-6"	Str.						1307
5674	56	7'-1"	Str.						596
5675	60	14'-0"	Str.						1262
5676	56	6'-10"	Str.						575
5501	428	5'-4"	10						2381
5502	428	2'-0"	2	7½"	1'-0"	7½"			893
5503	428	2'-2"	2	1'-6"	7½"	0			967
5504	428	3'-3"	4	9"					1451
5505	14	9'-7"	18						140
5506	8	3'-1"	Str.						26
								Total 207,661	
				PIERS					
R14501	14	21'-7"	2	19'-6"	2'-6"	0"			2312
R14502	14	22'-3"	2	20'-2"	2'-6"	0"			2383
R14503	14	23'-7"	2	21'-6"	2'-6"	0"			2526
R14504	14	24'-4"	2	22'-3"	2'-6"	0"			2606
R14505	14	25'-1"	2	23'-0"	2'-6"	0"			3686
R1001	24	28'-11"	2	3'-6"	25'-9"	0"			2986
R1002	12	21'-3"	Str.						1097
R1003	40	18'-6"	Str.						3184
R901	20	21'-9"	Str.						1479
R902	10	33'-6"	Str.						1139
R903	24	29'-6"	Str.						2407
R904	12	18'-3"	Str.						745
R801	72	9'-6"	Str.						1826
R601	72	6'-2"	2	1'-11"	2'-8"	1'-11"			667
R501	6	7'-4"	6	1'-7"	4'-2"	2'-8"			46
R502	128	9'-5"	2	3'-6"	2'-8"	3'-6"			1257
R503	4	31'-4"	Str.						131
R504	72	9'-6"	Str.						713
SP401	1	12'-6"	13	4½"	36	2'-8"			240
SP402	1	13'-6"	13	4½"	39	2'-8"			258
SP403	1	14'-6"	13	4½"	41	2'-8"			276
SP404	1	15'-6"	13	4½"	44	2'-8"			294
SP405	1	16'-6"	13	4½"	47	2'-8"			312

PIERS (Con't.)									
MARK	NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT
C14501	16	21'-2"	2	19'-1"	2'-6"	0"			2591
C14502	16	21'-10"	2	19'-9"	2'-6"	0"			2672
C14503	16	23'-2"	2	21'-1"	2'-6"	0"			2836
C14504	16	24'-5"	2	22'-4"	2'-6"	0"			2989
C14505	16	24'-10"	2	22'-9"	2'-6"	0"			3040
C1001	32	31'-2"	2	3'-6"	28'-0"	0"			4292
C1002	16	20'-0"	Str.						1377
C1003	48	19'-9"	Str.						4079
C1004	24	19'-11"	Str.						2057
C1005	10	24'-0"	Str.						1033
C1006	14	20'-4"	Str.						1825
C1007	14	32'-3"	Str.						1943
C1008	14	20'-0"	Str.						1205
C1009	14	28'-6"	Str.						1717
C901	75	9'-6"	Str.						2423
C601	84	6'-2"	2	1'-11"	2'-8"	1'-11"			778
C501	6	7'-4"	6	1'-7"	4'-2"	2'-8"			46
C502	146	9'-5"	2	3'-6"	2'-8"	3'-6"			1434
C503	4	34'-1"	Str.						142
C504	44	8'-3"	2	3'-6"	1'-6"	3'-6"			379
C505	75	9'-6"	Str.						743
SP406	1	12'-2"	13	4½"	35	2'-8"			234
SP407	1	13'-3"	13	4½"	38	2'-8"			254
SP408	1	14'-3"	13	4½"	41	2'-8"			272
SP409	1	15'-4"	13	4½"	44	2'-8"			291
SP410	1	16'-4"	13	4½"	46	2'-8"			309
F14501	18	24'-5"	2	22'-4"	2'-6"	0"			3362
F14502	18	25'-2"	2	23'-1"	2'-6"	0"			3465
F14503	18	26'-5"	2	24'-4"	2'-6"	0"			3638
F14504	18	27'-8"	2	25'-7"	2'-6"	0"			3810
F14505	18	28'-5"	2	26'-4"	2'-6"	0"			3913
F1001	28	33'-11"	2	3'-6"	30'-9"	0"			4086
F1002	14	21'-7"	Str.						1300
F1003	48	21'-6"	Str.						4441
F1004	16	26'-4"	Str.						1813
F1005	16	22'-0"	Str.						1515
F1006	28	35'-6"	Str.						4277
F1007	14	21'-8"	Str.						1305
F1008	86	9'-6"	Str.						3516
F601	36	6'-2"	2	1'-11"	2'-8"	1'-11"			889
F501	6	7'-4"	6	1'-7"	4'-2"	1'-7"			46
F502	4	28'-4"	Str.						118
F503	2	20'-0"	Str.						42
F504	152	9'-5"	2	3'-6"	2'-8"	3'-6"			1493
F505	86	9'-6"	Str.						852
SP411	1	15'-5"	13	4½"	44	2'-8"			293
SP412	1	16'-6"	13	4½"	47	2'-8"			312
SP413	1	17'-8"	13	4½"	50	2'-8"			333
SP414	1	18'-9"	13	4½"	53	2'-8"			352
SP415	1	19'-11"	13	4½"	56	2'-8"			373
								Total	117,475



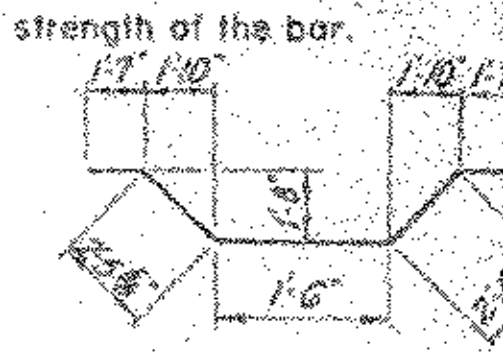
REPLACEMENT BARS					
MARK	NO.	LENGTH	TYPE	A	B
RE14501	3	2'-6"	Str.		
RE1001	3	8'-3"	Str.		
RE901	1	7'-10"	Str.		
RE801	1	7'-6"	Str.		
RE710	1	6'-6"	7	9"	4'-8"
RE601	11	6'-11"	Str.		
RE501	1	6'-7"	Str.		
RE401	1	6'-3"	14	6'-3"	1'-4"

NOTES

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximatly 0.80 lbs per lin. ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example A506 is a No 5 size bar and P1101 is a No. 11 size bar.

SPLICES in No. 14 (or No. 18) size bars shall be made by an approved positive mechanical method designed to develop 125% of the yield strength of the bar.



TYPE 18

19/19

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE NO. FRA-270-2666N
UNDER N B USR 62 & RAMP D

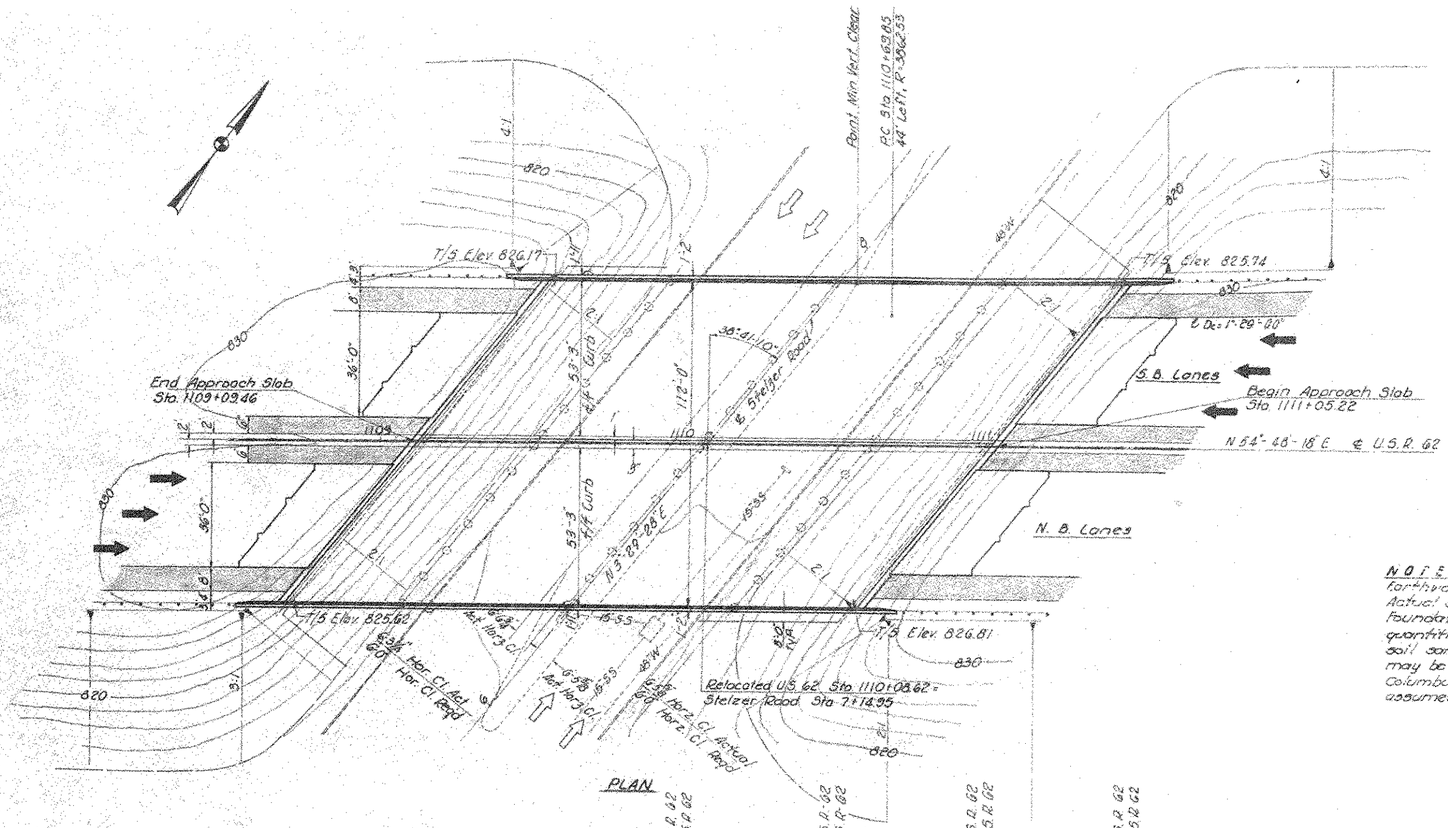
FRANKLIN COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
	F.G.				

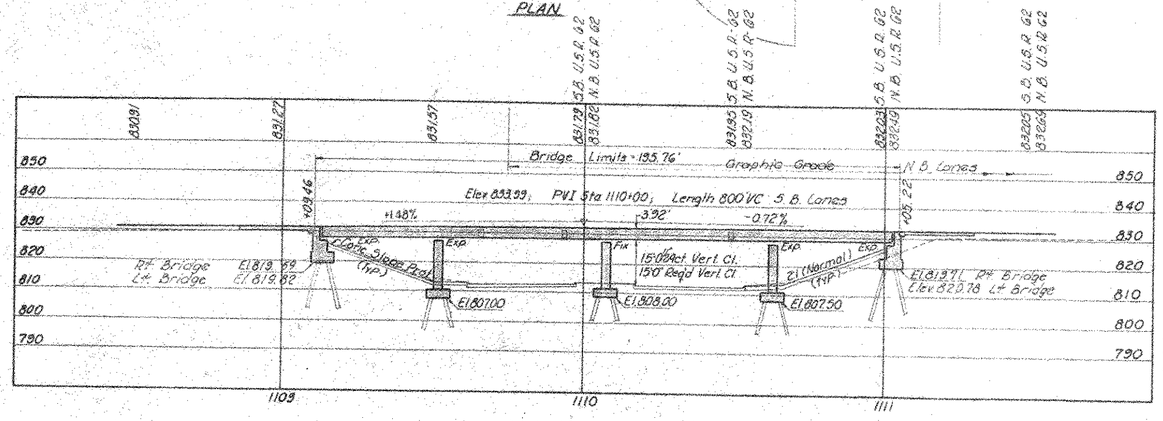
STATE RD. DIVISION	STATE	PROJECT	
2	OHIO		

405
495

FRA-62-20.83
FRA-270-25.39 N



NOTES:
Earthwork limits shown are schematic. Actual slopes shall conform to plan cross-sections. Foundation Soundings: Foundation design and foundation quantities are based on a study of rod soundings and soil samplings made at the site. This sounding information may be inspected at the office of Bureau of Bridges in Columbus or in the Division office; but the State assumes no responsibility for the accuracy thereof.



PROFILE ALONG ℄ US 62

All piles 12" cast-in-place reinforced concrete. Estimated average pay lengths, Abutments 25'-0" Piers 20'-0".

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam Bridge with Reinforced Conc. Deck & Substructures
SPANS: 39'-0, 56'-0, 56'-0, 39'-0" ℄ Brg.
ROADWAY: 112'-0" F/F Parapet
LOADING: H S 20-44
WEARING SURFACE: 1" Monolithic Concrete
SKEW: 38°41'10" L.F.
APPROACH SLAB: A.S.-1-67 (25'0" long)
ALIGNMENT: Tangent & 1°-28' Curve
SUPERELEVATION: Lt. Br. Variable; Rt. Br. 3/16"/Ft.
AVERAGE DAILY TRAFFIC: 34,727 (1973)

1 / 14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SITE PLAN

BRIDGE Nº FRA-62-2095
over
STELZER ROAD

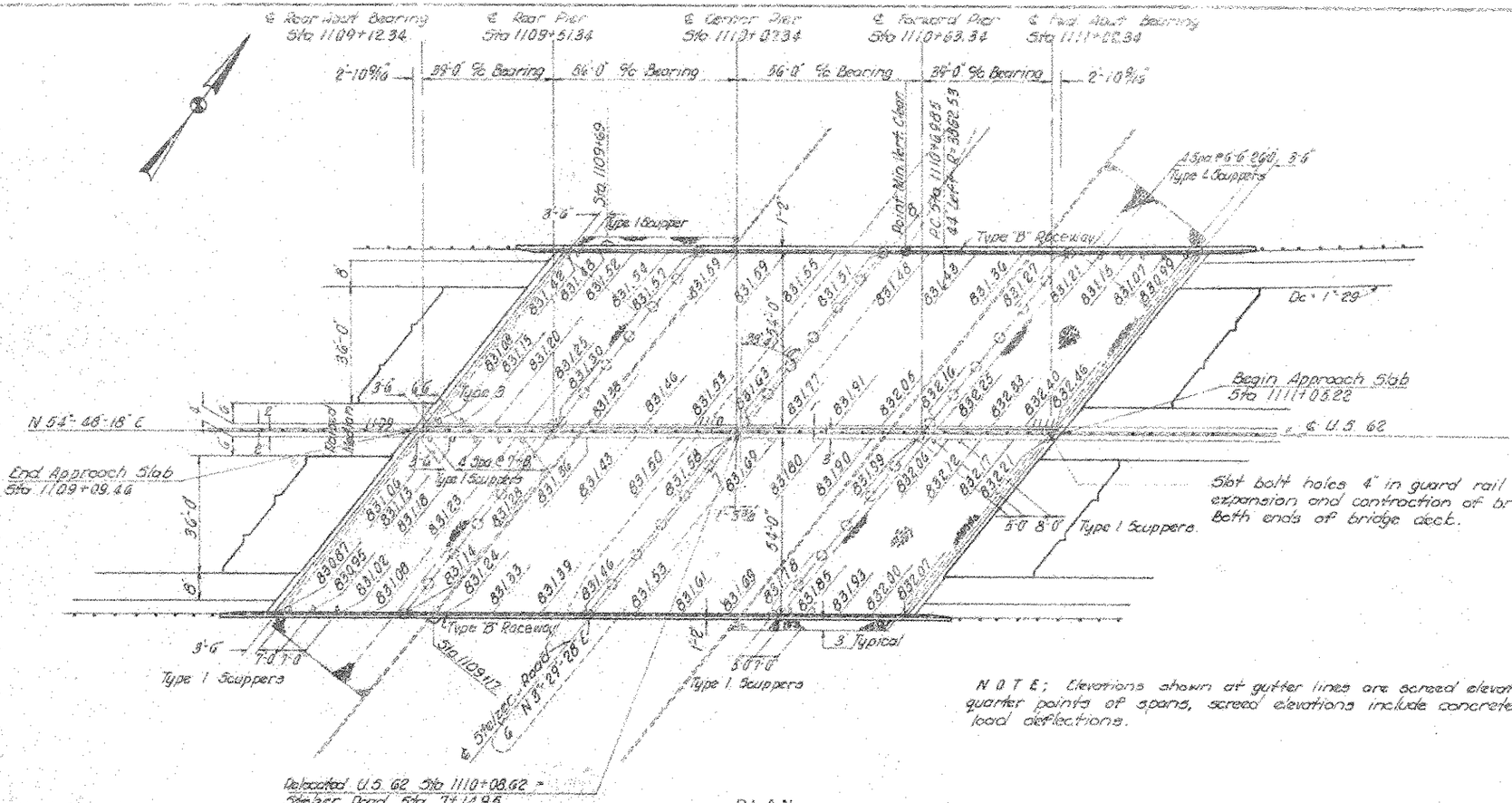
FRANKLIN COUNTY LR270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J-M-J	E		W.A.M.	J.K.	4/18/69	

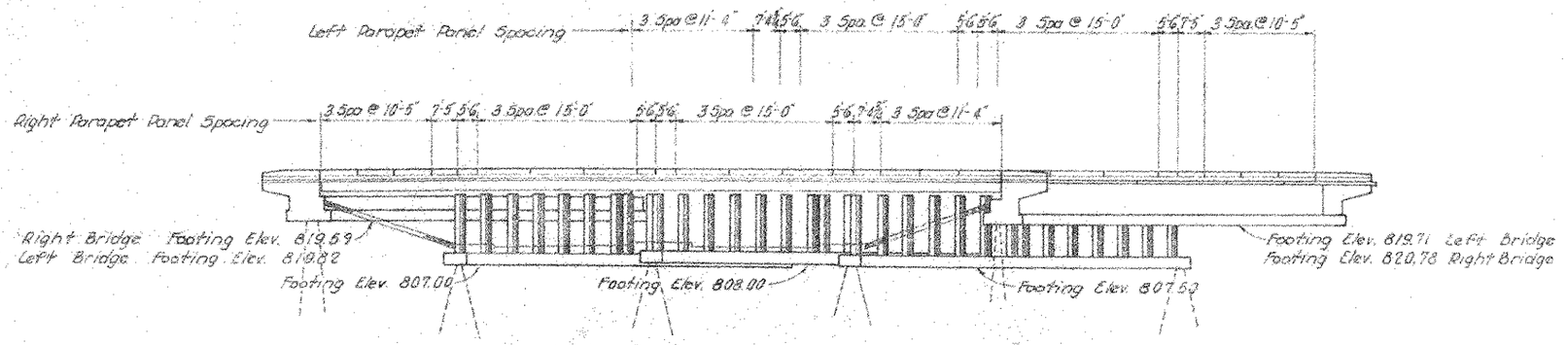
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

406
195

FRA-62-20.83
FRA-270-26.30 N



PLAN



ELEVATION

NOTE; Elevations shown at gutter lines are screed elevations at quarter points of spans, screed elevations include concrete dead load deflections.

2 / 18

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

GENERAL PLAN, ELEVATION and SCREED ELEVATIONS

BRIDGE No. FRA-62-2095
over STELZER ROAD

FRANKLIN COUNTY — I.R. 270

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
V.A.D.	F.G.		M.G.	F.G.	1/12-69	

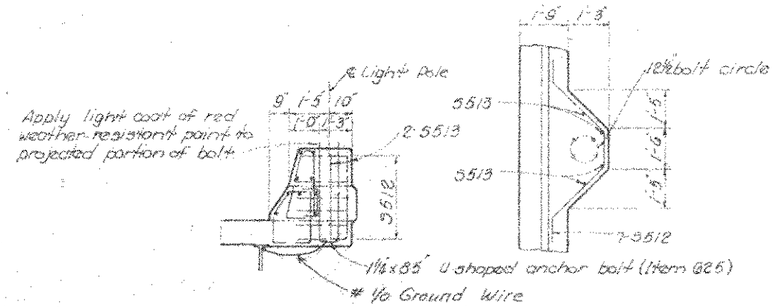
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

407
495

FRA-62-20.83
FRA-(310-25.39)N

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIERS	ABUT.	GEN'L.
203	1606	Cu Yd	Unclassified Excavation		964	642	
308	Lump	Sum	First Test Pile			Lump Sum	
507	4200	Lin Ft	12" Cast-in-place reinforced concrete piles		2400	1800	
509	340868 66	Lb	Reinforcing Steel	222420 590	67448	30828 91017	
511	628	Cu Yd	Class "C" Concrete Superstructure	628			
511	504	Cu Yd	Class "C" Concrete Abutment			504	
511	450	Cu Yd	Class "C" Concrete Pier Footings		450		
511	176	Cu Yd	Class "C" Concrete Pier above Footings		176		
513	465072	Lb	Structural Steel	465072			
514	465072	Lb	Field Painting of Structural Steel	465072			
516	86	Sq Ft	1" Preformed Expansion Joint Filler			86	
517	195.76	Lin Ft	Double faced deep beam rails with steel posts & bolts as per plan	195.76			
518	126	Cu Yds	Porous backfill			126	
518	275	Lin Ft	6" perforated helical corrugated metal pipe including special 707.01			275	
518	182	Lin Ft	6" non-perforated helical corrugated metal pipe, 707.01			182	
518	20	Each	Scuppers including supports	20			
601	1476	Sq Yd	Concrete Slope Protection				1476
808	628	Units	Chemical admixture for concrete, Type A, B or D	628			
625			For 625 Lighting Items, See Sheet No. 302				



LIGHT POLE PILASTER

GENERAL NOTES

REFERENCE shall be made to Standard Drawings BS-1-67 (rev. 6-12-69), SD-1-69 (dated 6-12-69), ~~B.R. 2-8. (dated 2-15-68)~~, B.R-1-67 (dated 2-1-68) sheet 1 of 3, 28-1-55 (rev. 2-2-59), Supplemental Specifications 808 (1-1-69), 811 (1-1-69) and 836 (6-17-69)

DESIGN SPECIFICATIONS

This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1965, including the Ohio "Supplement" to these specifications

DESIGN DATA

Design Loading	H S 20-44
Concrete Class C	Unit Stress 1200 psi for Superstructure Unit Stress 1333 psi for Substructure
Structural Steel	A S T M A 36 - Unit Stress 20,000 psi
Reinforcing Steel	A S T M A615 A616 or A617 - Unit Stress 20,000 psi. Spiral reinforcement shall be plain bars A S T M A 306 or A 499.

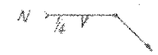
PILES shall be driven with a hammer of not less than 11,000 ft. lbs. per blow to firm contact with bedrock. If the length of penetration is approximately equal to the depth of bedrock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in 507.05 is not less than the following value for a pile hammer of the indicated energy rating.

For the Abutment Piles
59 Tons Per Pile using an 11,000 ft. lb. hammer.
53 Tons Per Pile using a 15,000 ft lb. or greater hammer.

Pier Piles
64 Tons Per Pile using an 11,000 ft. lb. hammer.
59 Tons Per Pile using a 15,000 ft. lb. or greater hammer.
If the energy rating of the hammer is between ratings as shown above the required formula capacity shall be determined by interpolation. The design load is 40 tons per pile for the abutment piles and 40 tons per pile for pier piles.

UTILITY LINES
All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

WELDS on non-stress-carrying members are shown thus:



MAINTENANCE OF TRAFFIC
Two lanes of traffic with a minimum horizontal width of 24'-0" and a minimum vertical clearance of 13'-6" shall be maintained at all times.

FOR LIGHTING DETAILS not shown, see Standard Construction Drawing HL-4 and Sheet No. 309

3/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

ESTIMATED QUANTITIES & GENERAL NOTES
BRIDGE No. FRA-62-2095
over STELZER ROAD

FRANKLIN COUNTY — 1 R 270

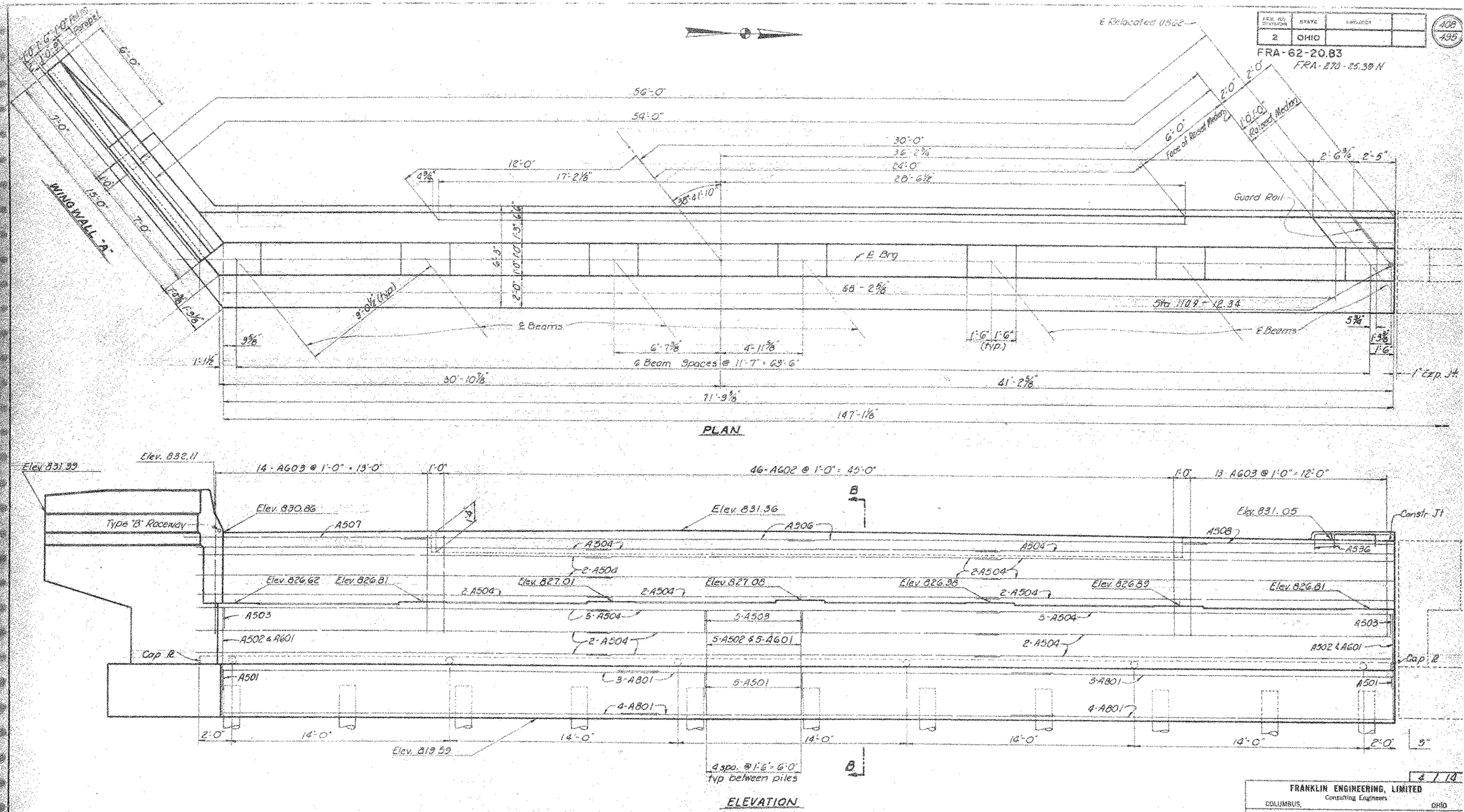
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	SHEET
M.C.	F.G.		J.D.C.	M.	1/20/70	2-70

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

408/495

FRA-62-20.83

FRA-270-25.39 N



4 / 14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

RIGHT REAR ABUTMENT

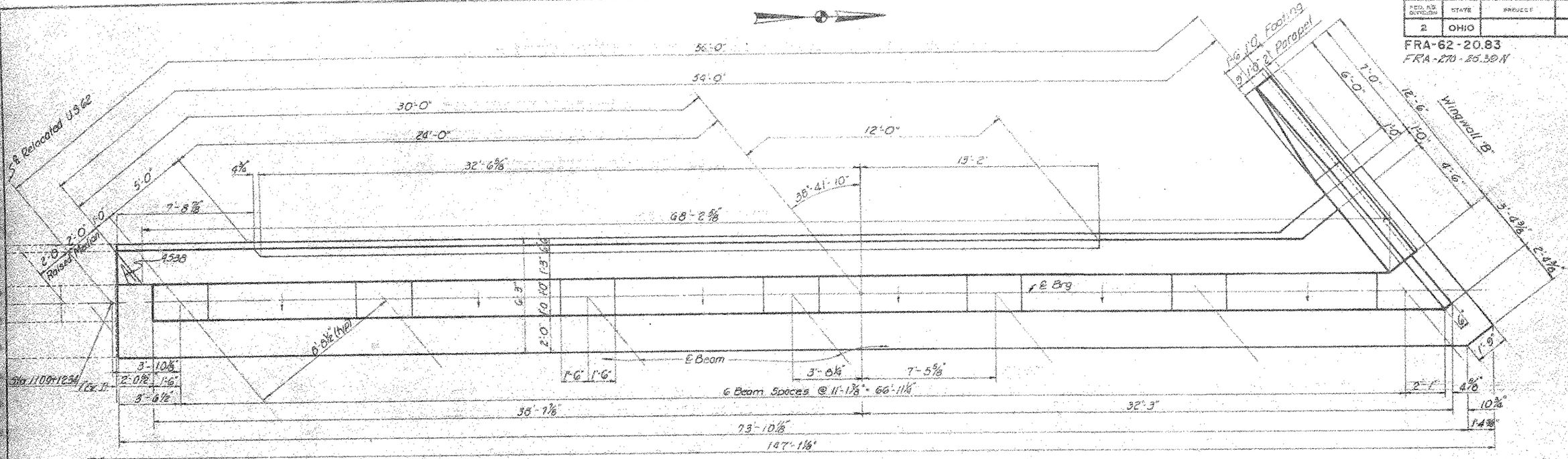
BRIDGE No. FRA-62-2095
over STELZER ROAD

FRANKLIN COUNTY IR-270

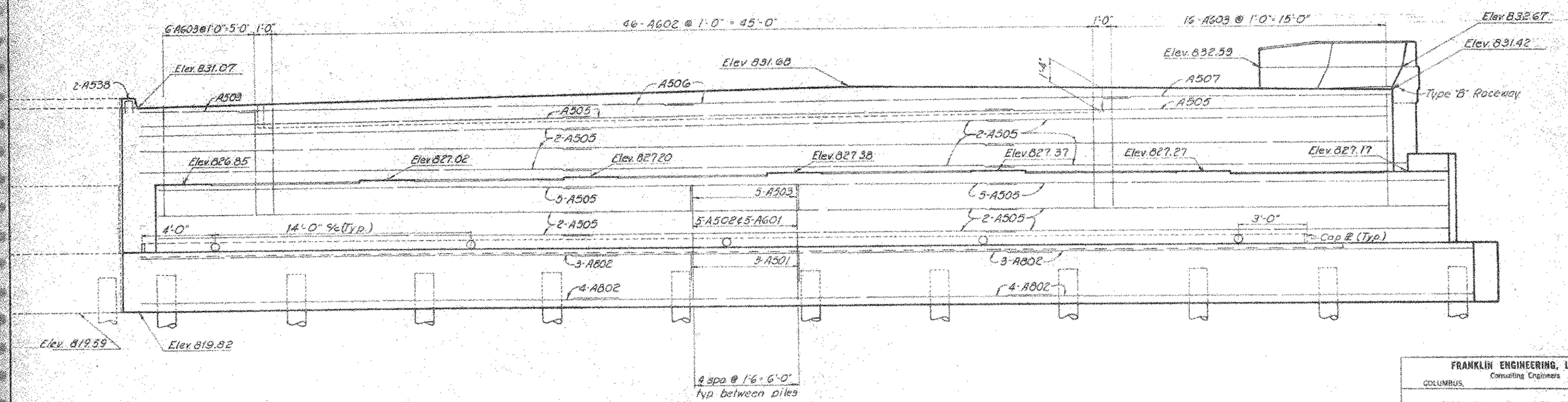
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.	[illegible]		V.A.D.	[illegible]	8/12/69	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-62-20.83
FRA-270-25.39 N



PLAN



ELEVATION

5 / 14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

LEFT REAR ABUTMENT

BRIDGE Nº FRA-62-2095
over STELZER ROAD

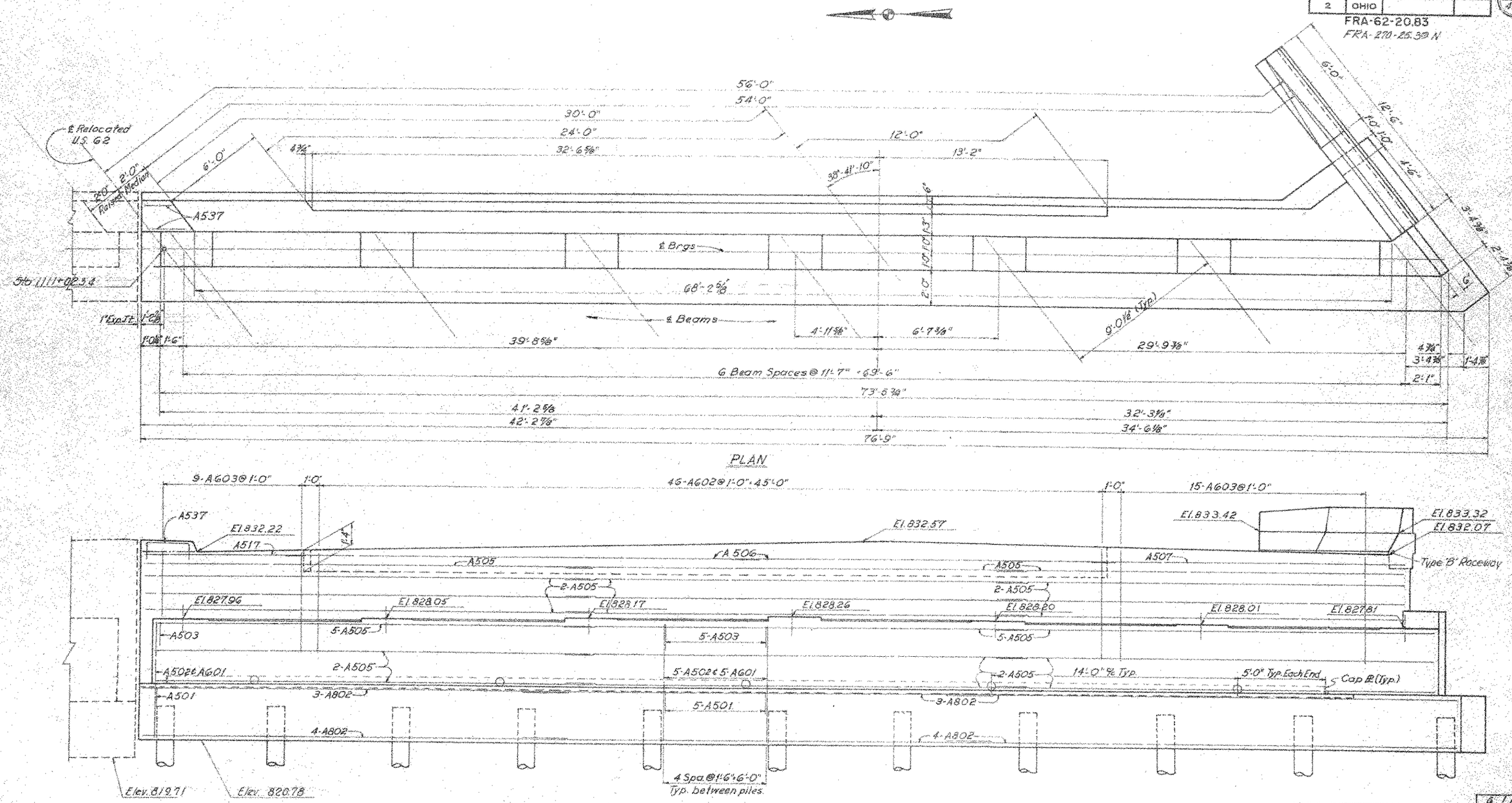
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
M.G.					5/12/69	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

410
495

FRA-62-20.83
FRA-270-25.30 N



6/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

RIGHT FORWARD ABUTMENT

BRIDGE No. FRA-62-2095
over STELZER ROAD

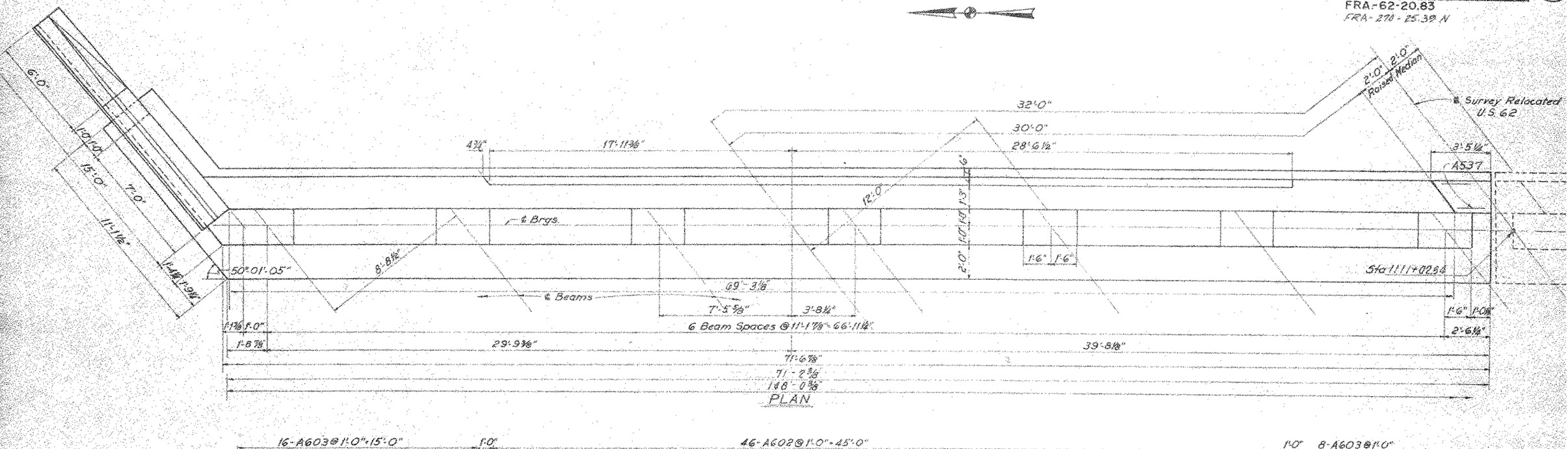
FRANKLIN COUNTY IR 270

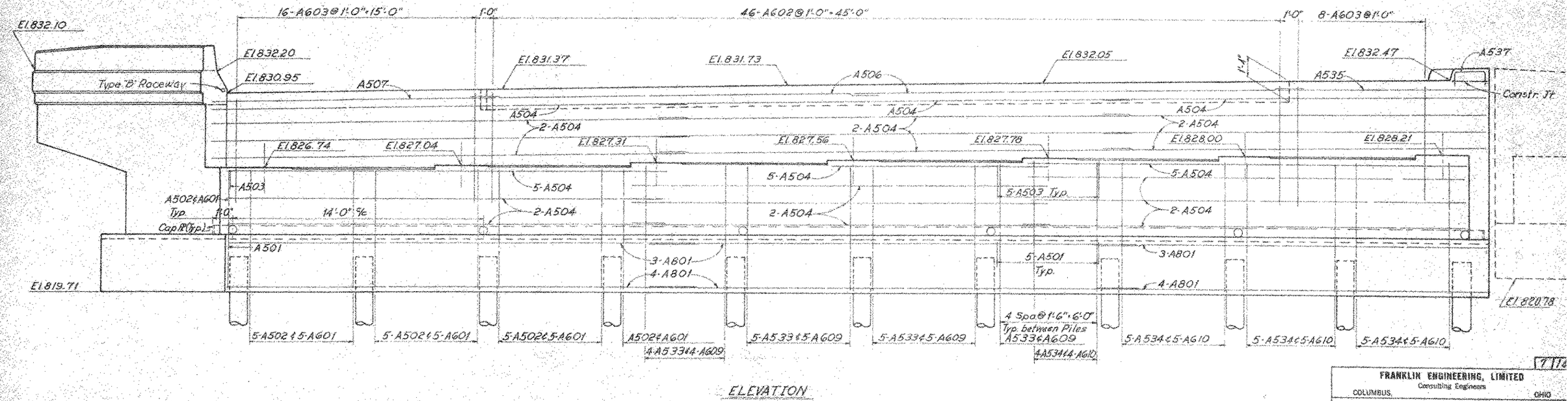
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.D.	F.O.S.	F.O.S.	M.G.	[illegible]	[illegible]	

FED. RD. DIVISION	STATE	PROJECT	
2.	OHIO		

FRA-62-20.83
FRA-270-25.39 N

411
495





ELEVATION

7 11

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

LEFT FORWARD ABUTMENT

BRIDGE No. FRA-62-2095
over STELZER ROAD

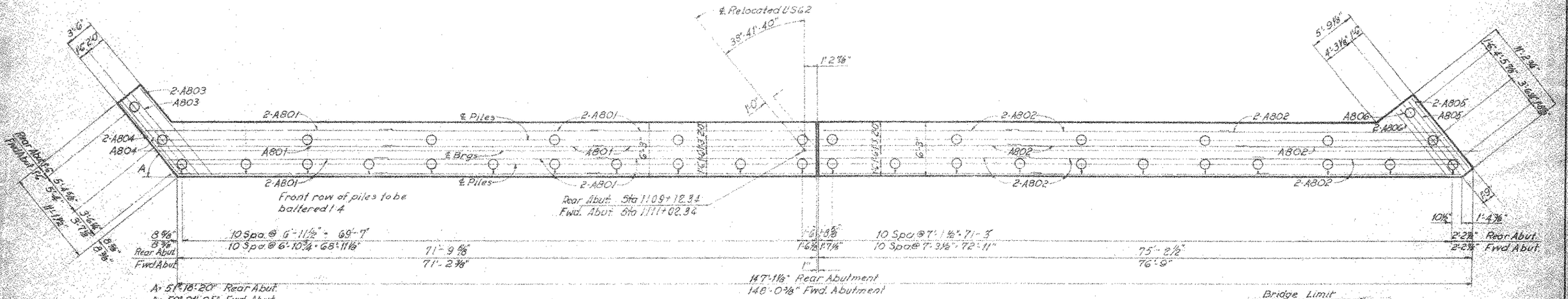
FRANKLIN COUNTY 1R-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.S.D.	F.D.S.	F.D.S.	M.L.	J.F.	9/12/69	

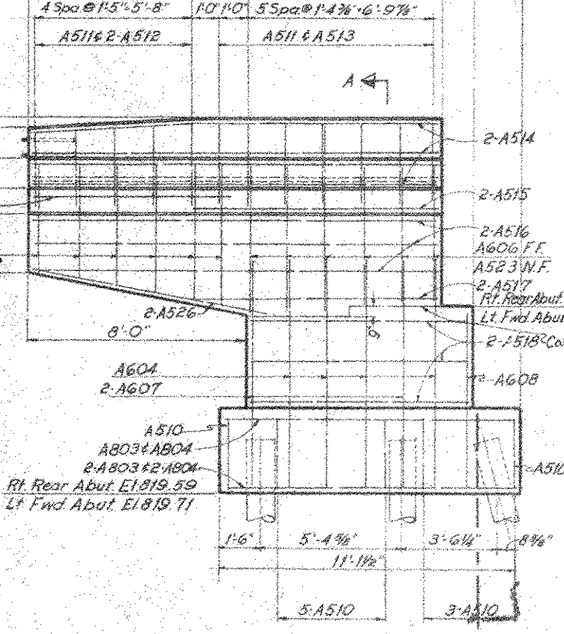
FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-62-20.83
FRA-270-25.39N

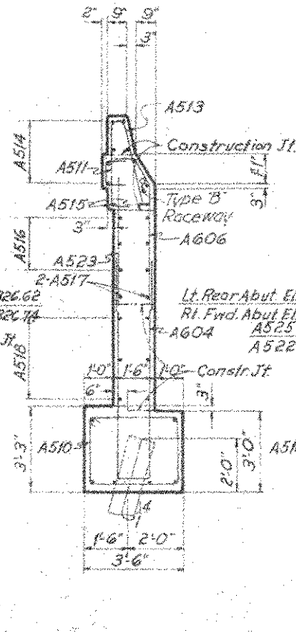
Rear Abutment
Forward Abutment



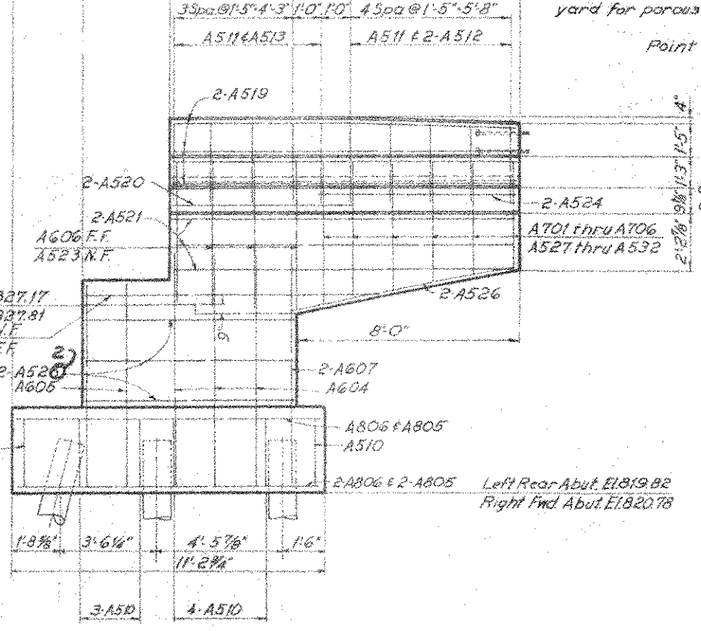
FOOTING PLAN



WINGWALL A

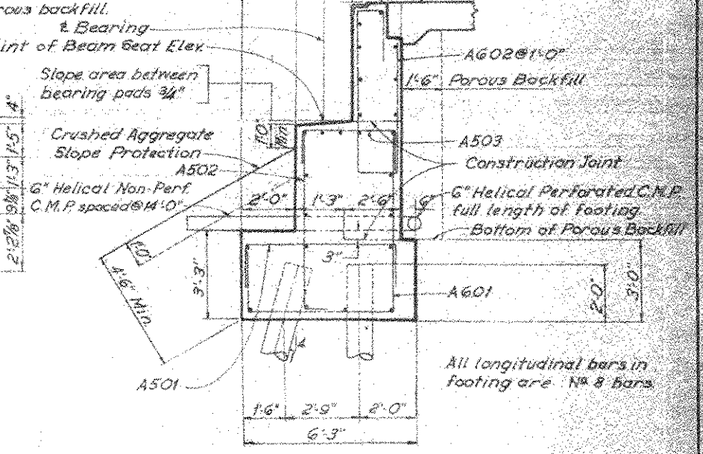


SECTION A-A



WINGWALL B

POROUS BACKFILL - 1'-6" thick shall extend upward to the approach slab or to the subbase for the full length of the abutment. Excavation, therefore, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cubic yard for porous backfill.



TYPICAL ABUTMENT SECTION

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

ABUTMENT DETAILS

BRIDGE No. FRA-62-2095
over STELZER ROAD

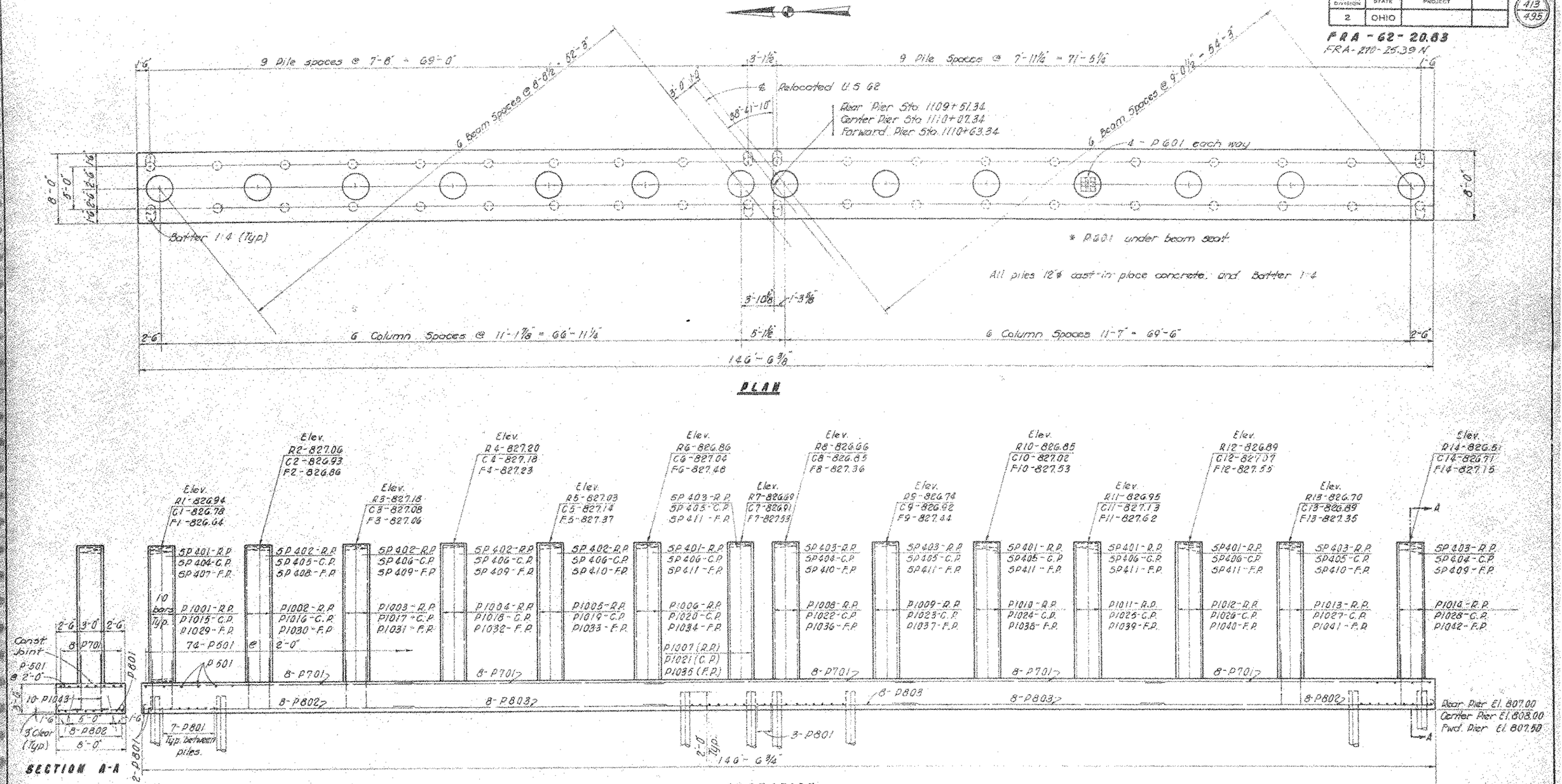
FRANKLIN COUNTY (IR-270)

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.G.	F.G.S.					

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

413
495

FRA - 62 - 20.83
FRA-270-25.39 N



NOTE
R1 thru R14 - Rear Pier Elevations
C1 thru C14 - Center Pier Elevations
F1 thru F14 - Forward Pier Elevations

LEGEND
R.P. - Rear Pier.
C.P. - Center Pier.
F.P. - Forward Pier.

Bridge Seat Reinforcing: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar (bolt) holes. Center Pier only.

For Structure Grounding see Stand. Construction Drawing HL-4

9/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

PIER DETAILS
BRIDGE Nº FRA-62-2095
over
STELZER ROAD

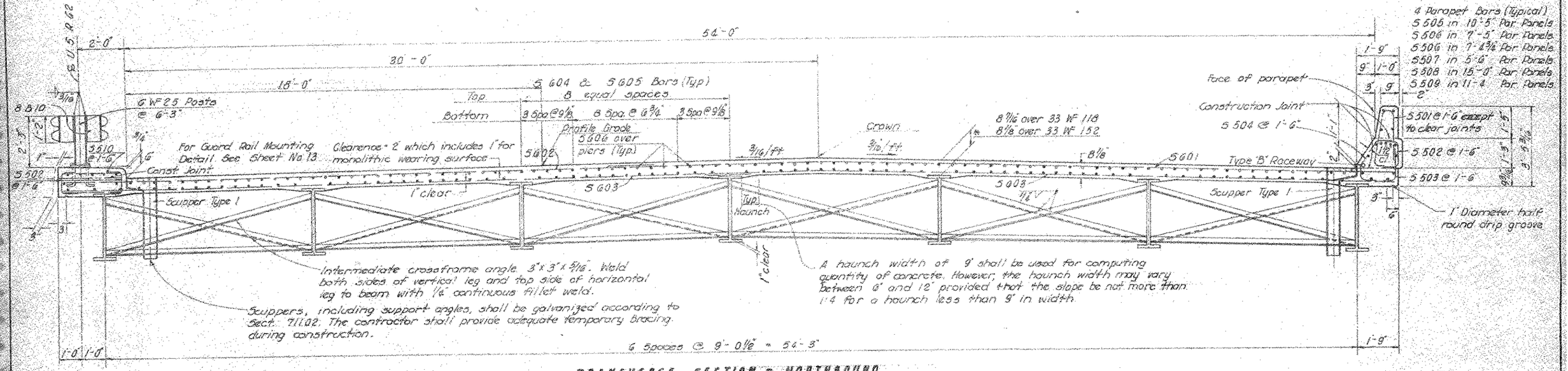
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.D.	F.G.		M.G.	JF	9/12/69	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

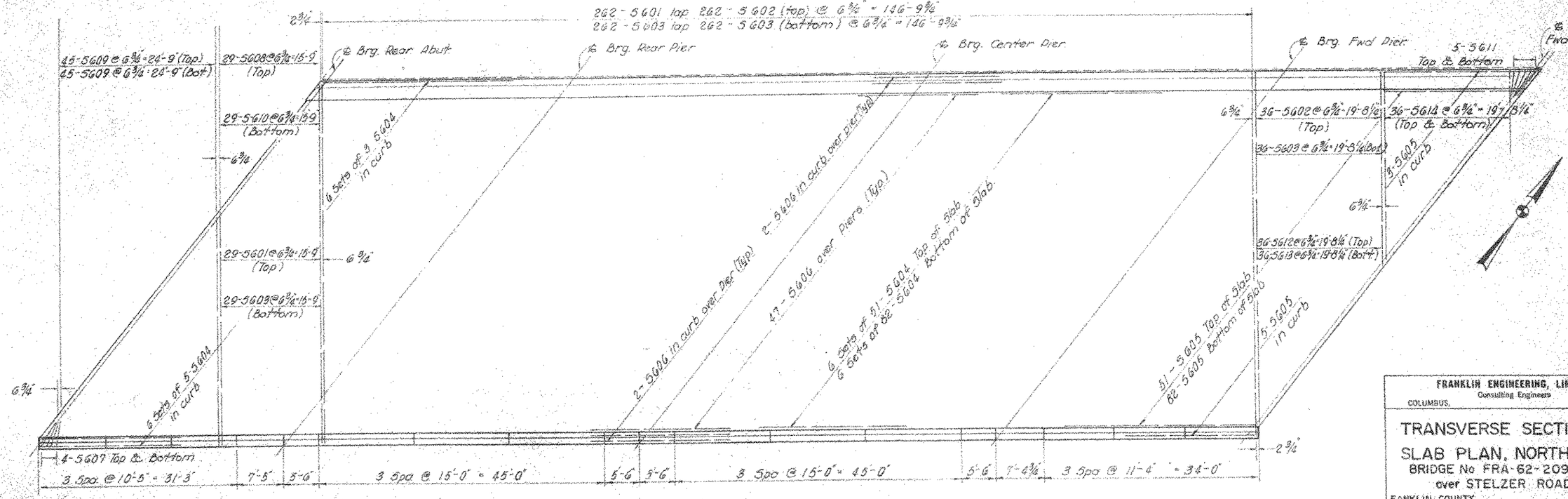
414/495

FRA-62-20.83
FRA-270-25.39 N

DECK SLAB DEPTH: The distance shown from the top of deck slab to top of steel beams are the design dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from them may be necessary because the top flanges of the beams may not have the exact camber or conformation required to place them parallel to finished grade.



TRANSVERSE SECTION - NORTHBOUND



SLAB PLAN - NORTHBOUND

10/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

TRANSVERSE SECTION and SLAB PLAN, NORTHBOUND
BRIDGE No FRA-62-2095
over STELZER ROAD
FANKLIN COUNTY I.R. 270

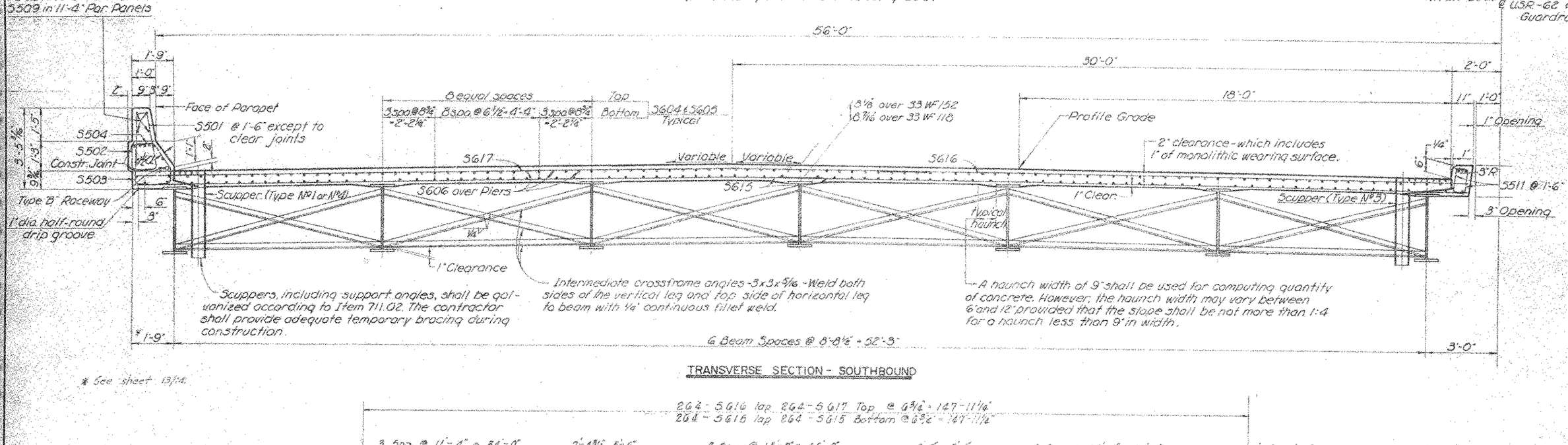
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
VAD	F.G.		M.G.	JA	9/12/67	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRA-62-20.83
FRA-270-25.39

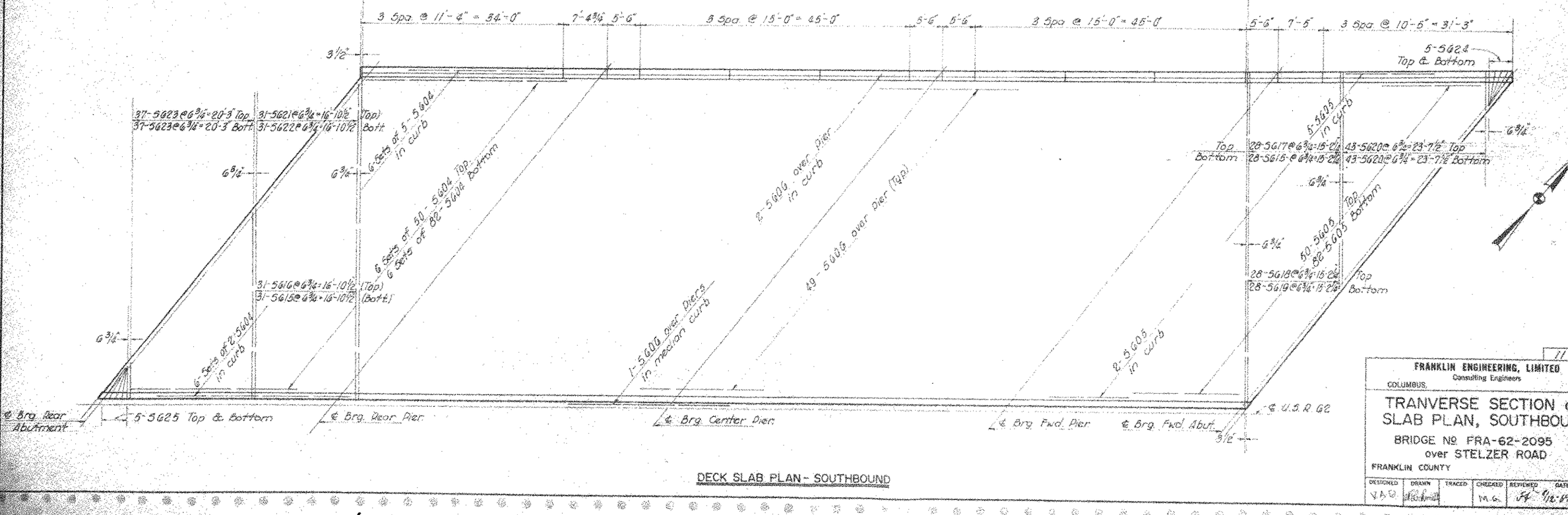
4 Parapet Bars
S505 in 10'-3" Par. Panels
S506 in 7'-4⅝" Par. Panels
S506 in 7'-5" Par. Panels
S507 in 5'-6" Par. Panels
S508 in 15'-0" Par. Panels
S509 in 11'-4" Par. Panels

DECK SLAB DEPTH: The distances shown from the top of deck slab to the top of steel beams are the design dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from them may be necessary because the top flanges of the beams may not have the exact camber or conformation required to to place them parallel to finished grade.



* See sheet 13/14.

TRANSVERSE SECTION - SOUTHBOUND



DECK SLAB PLAN - SOUTHBOUND

11/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

TRANVERSE SECTION and SLAB PLAN, SOUTHBOUND

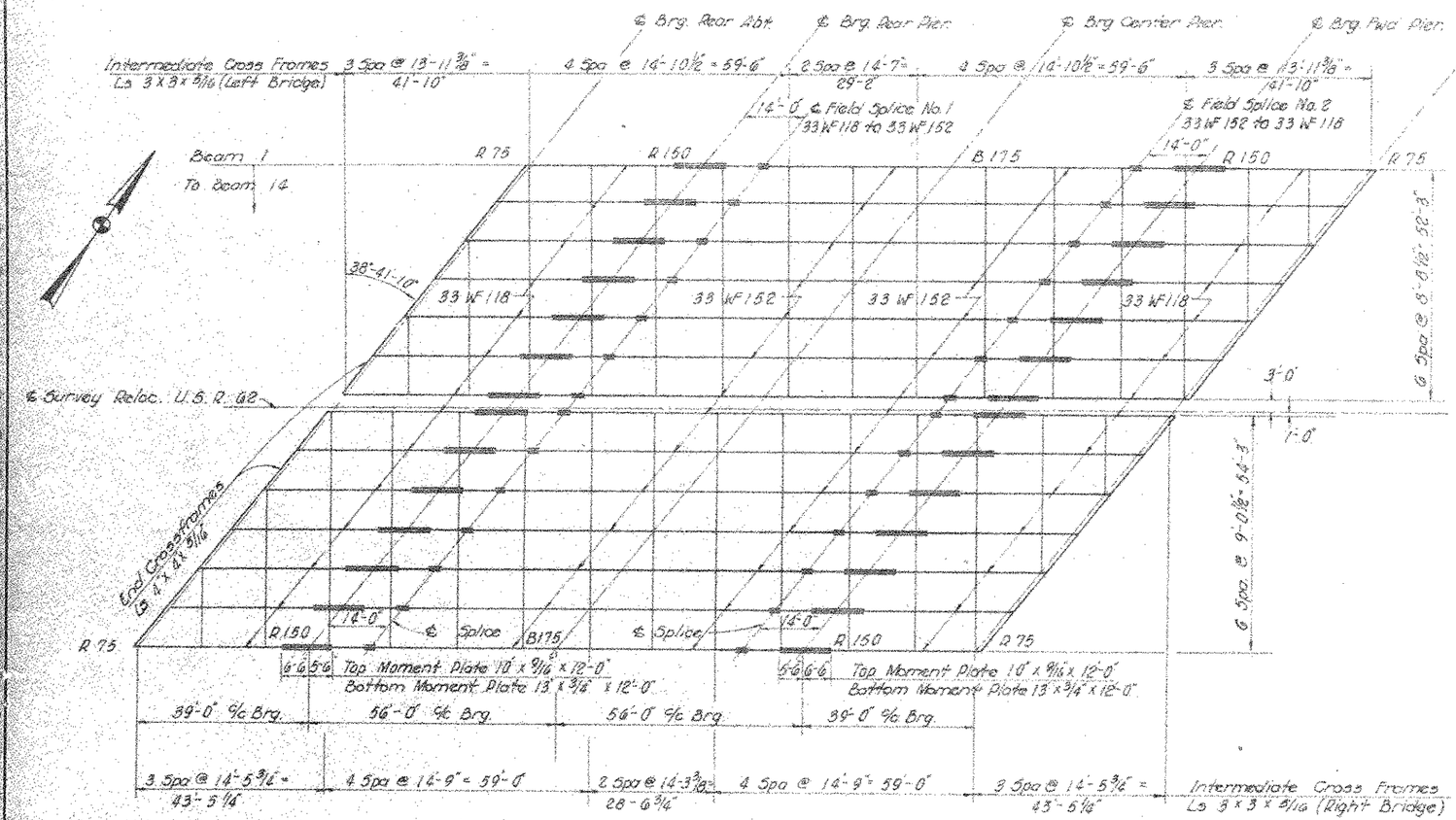
BRIDGE № FRA-62-2095
over STELZER ROAD
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.D.	[illegible]		M.G.	F.F.	9/12/69	

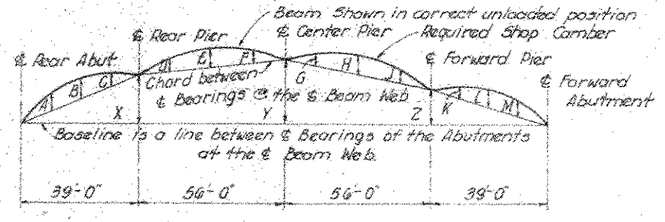
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

416
435

FRA - 62 - 20.83
FRA-270-25.39 N



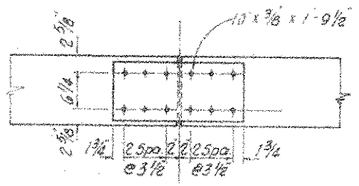
FRAMING PLAN

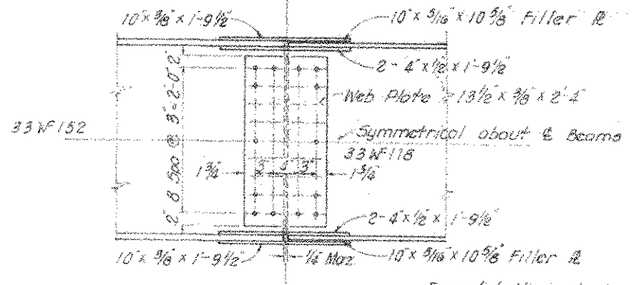


LAYOUT DIAGRAM

TABLE OF DIMENSIONS

BEAM		1	2	3	4	5	6	7	8	9	10	11	12	13	14
DIM.	X	2 1/16	2 9/16	2 3/16	2"	1"	1/16"	1/16"	3/16"	1/8"	1/16"	1/16"	1/8"	1/16"	3/16"
	Y	3 1/16	3 1/8"	2 3/16	2 3/16	1 1/8"	5/16"	1 1/16"	5/16"	1 3/16"	1/8"	1/16"	1/16"	3/8"	3/16"
	Z	2 1/16"	1 3/4"	1 5/16"	7/16"	1"	9/16"	1/8"	3/16"	1/16"	3/16"	1/4"	3/8"	7/16"	1/2"





For details not shown see SD-1-69 Sheet 4 of 4

SPLICE PLATE

CAMBER & DEFLECTION TABLE

	INTERIOR BEAMS												EXTERIOR BEAMS											
SPAN	SPAN NO. 1			SPAN NO. 2			SPAN NO. 3			SPAN NO. 4			SPAN NO. 1			SPAN NO. 2			SPAN NO. 3			SPAN NO. 4		
LOCATION	1/4 Pt. A	1/2 Pt. B	3/4 Pt. C	5p. Pt. D	1/2 Pt. E	3/4 Pt. F	5p. Pt. G	1/2 Pt. H	3/4 Pt. J	5p. Pt. K	1/2 Pt. L	3/4 Pt. M	1/4 Pt. A	1/2 Pt. B	3/4 Pt. C	5p. Pt. D	1/2 Pt. E	3/4 Pt. F	5p. Pt. G	1/2 Pt. H	3/4 Pt. J	5p. Pt. K	1/2 Pt. L	3/4 Pt. M
Deflection due to weight of steel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deflection due to remaining dead load	1/16	1/8	0	1/8	1/4	1/8	1/8	1/4	1/8	0	1/8	1/16	1/16	1/8	0	1/8	1/4	1/8	1/8	1/4	1/8	0	1/8	1/16
Adjustment required for vertical curve	0	1/16	0	1/8	1/8	1/8	1/8	1/8	1/8	0	1/16	0	0	1/16	0	1/8	1/8	1/8	1/8	1/8	1/8	0	1/16	0
Required shop camber	1/16	3/16	0	1/4	3/8	1/8	1/4	3/8	1/4	0	3/16	1/16	1/16	3/16	0	1/4	3/8	1/4	1/4	3/8	1/4	0	3/16	1/16

12/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

FRAMING PLAN & DETAILS

BRIDGE No. FRA-62-2095
over STELZER ROAD

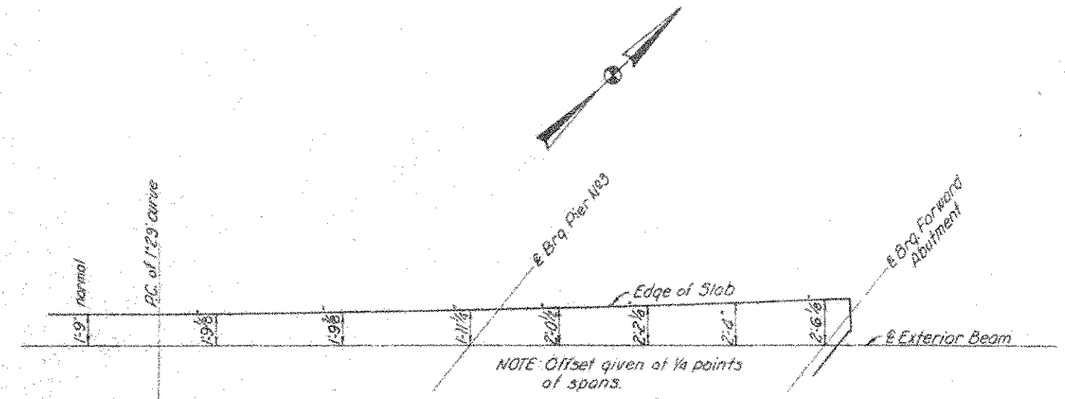
FRANKLIN COUNTY 18-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.D.	F.G.		M.G.	F.F.	9/12/69	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

417
495

FRA-62-2083
FRA-270-25.39N



EDGE of SLAB OFFSETS for SOUTHBOUND DECK

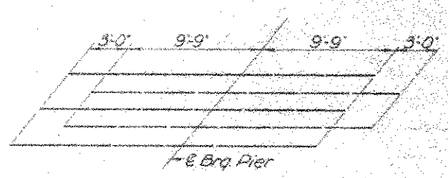
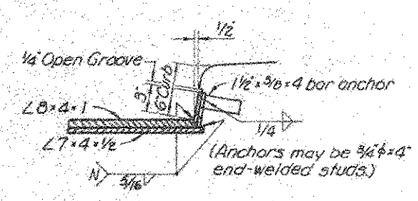
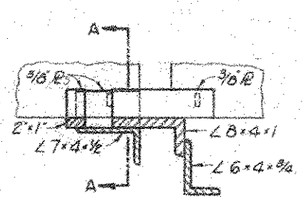


DIAGRAM SHOWING STAGGER
S-606 BARS OVER PIERS

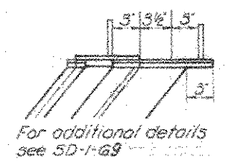


SECTION A-A

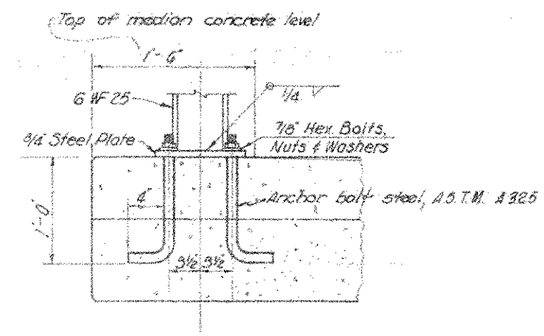


SECTION thru END DAM

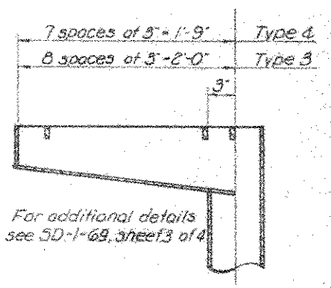
DETAIL of END DAM at MEDIAN CURB



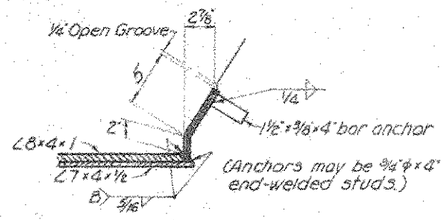
PARTIAL DECK PLAN



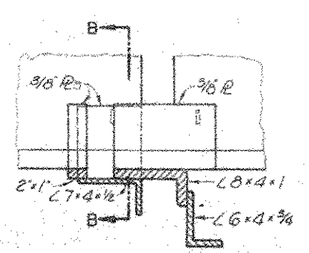
SECTION C-C



SCUPPER DETAIL

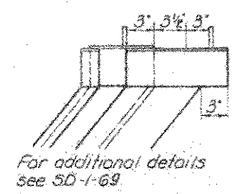


SECTION B-B



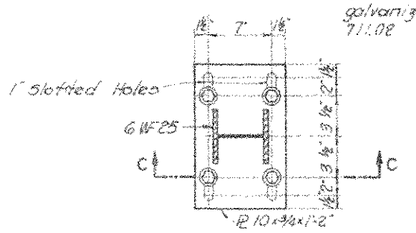
SECTION thru END DAM

DETAIL of END DAM at PARAPET



PARTIAL DECK PLAN

Post anchor bolts, nuts and washers shall be galvanized according to 711.02



PLAN

GUARDRAIL POST MOUNTING DETAIL

For details not shown, see Std. Drwg. G.R. 2-8 dated 2-15-68

13/14

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE No. FRA-62-2095
over STELZER ROAD

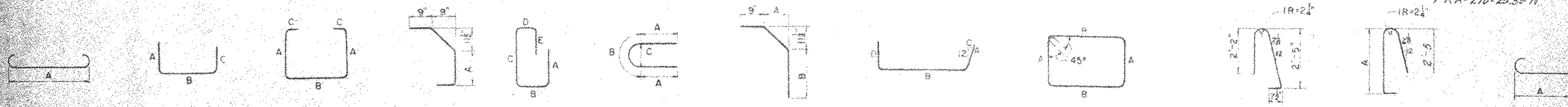
FRANKLIN COUNTY IR-270

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RAP	[illegible]		M.G.	[illegible]	8/12-69	

DIVISION	STATE	PROJECT	
2	OHIO		

FRA-62-20.83
FRA-270-25.39 N

418/495



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6 TYPE 7 TYPE 8 TYPE 9 TYPE 10 TYPE 11 TYPE 12

ABUTMENTS

MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
[illegible]	42	27'-10"	Str						3122
[illegible]	42	26'-8"	Str						2990
[illegible]	6	12'-4"	Str						198
[illegible]	6	10'-9"	Str						172
[illegible]	6	10'-10"	Str						174
[illegible]	6	9'-4"	Str						150
[illegible]	4	4'-4"	Str						36
[illegible]	4	5'-0"	7	2¼	3'-5"				40
[illegible]	4	5'-4"	7	4"	3'-8"				44
[illegible]	4	5'-8"	7	6"	3'-11				46
[illegible]	4	6'-0"	7	9"	4'-2"				50
[illegible]	4	6'-2"	7	9"	4'-4"				50
[illegible]	170	14'-8"	2	6'-7"	5'-5"	2'-7"			3639
[illegible]	184	14'-6"	5	4'-5	1'-5"	5'-9"	1'-1"	2'-6"	4008
[illegible]	97	12'-7"	2	5'-9"	1'-5"	5'-9"			1833
[illegible]	14	18'-4"	2	8'-9"	1'-2"	8'-9"			386
[illegible]	4	14'-8"	2	6'-5"	1'-2	7'-5"			86
[illegible]	28 [illegible]	6'-3"	7	9"	4'-5"				188 [illegible]
[illegible]	12	8'-9"	Str						158
[illegible]	2	13'-8"	2	6'-5"	1'-8"	6'-5"			42
[illegible]	15	14'-11	2	7'-2"	5'-5"	2'-7"			336
[illegible]	19	15'-5	2	7'-8"	5'-5"	2'-7"			440
[illegible]	204	8'-4"	2	1'-7"	5'-5"	1'-7"			1778
[illegible]	170	7'-1"	2	6'-6"	8"				1256
[illegible]	204	6'-10"	2	1'-10	3'-5"	1'-10			1454
[illegible]	100	25'-8"	Str						2677
[illegible]	96	25'-6"	Str						2554
[illegible]	8	24'-7"	Str						206
[illegible]	4	14'-6"	Str						60
[illegible]	1	13'-3"	Str						14
[illegible]	1	6'-4"	Str						7
[illegible]	36	12'-0"	9	2'-7"	3'-2"				476
[illegible]	44	2'-0"	2	7½	1'-0"	7½			92
[illegible]	40	3'-0"	Str						126
[illegible]	24	6'-3"	11	3'-0"					156
[illegible]	16	14'-8"	Field Bt						244
[illegible]	4	8'-10"	Str						36
[illegible]	12	14'-8"	Str						184
[illegible]	5	9'-0"	Str						47
[illegible]	12	7'-10"	Str						98
[illegible]	16	12'-2"	Field Bt						204
[illegible]	4	6'-4	Str						26
[illegible]	12	12'-2"	Str						152
[illegible]	14	7'-4	Str						108
[illegible]	20	4'-6"	Str						94
[illegible]	8	7'-7	Str						64
[illegible]	2	10'-6"	Str						22
[illegible]	8	8'-9"	Str						74
[illegible]	4	3'-0"	Str						12
[illegible]	4	3'-3	Str						14
[illegible]	4	3'-6	Str						14
[illegible]	4	3'-9"	Str						16
[illegible]	4	4'-0	Str						16
[illegible]	4	4'-2	Str						18
[illegible]	15	7'-8"	2	7'-2"	8"				120
[illegible]	19	8'-2"	2	7'-8"	8"				162
[illegible]	1	11'-0"	Str						11
[illegible]	2	7'-8	2	2'-1"	3'-9	2'-1"			16
[illegible]	4	5'-7"	2	2'-1"	1'-8"	2'-1"			24
[illegible]	2	5'-2"	2	2'-1"	1'-5"	2'-1"			
								TOTAL	[illegible] 30828

PIERS

MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1001	10	16'-3"	Str						699
P1002	10	16'-5"	Str						706
P1003	10	16'-6"	Str						710
P1004	10	16'-6"	Str						710
P1005	10	16'-4"	Str						703
P1006	10	16'-2	Str						696
P1007	10	16'-1"	Str						692
P1008	10	16'-0"	Str						688
P1009	10	16'-1"	Str						692
P1010	10	16'-2"	Str						696
P1011	10	16'-3"	Str						699
P1012	10	16'-3"	Str						699
P1013	10	16'-1"	Str						692
P1014	10	15'-10"	Str						681
P1015	10	15'-1"	Str						649
P1016	10	15'-3"	Str						656
P1017	10	15'-5"	Str						663
P1018	10	15'-6"	Str						667
P1019	10	15'-6"	Str						667
P1020	10	15'-4"	Str						660
P1021	10	15'-3"	Str						656
P1022	10	15'-2"	Str						653
P1023	10	15'-3"	Str						656
P1024	10	15'-4"	Str						660
P1025	10	15'-6"	Str						667
P1026	10	15'-5"	Str						663
P1027	10	15'-8"	Str						656
P1028	10	15'-1"	Str						649
P1029	10	15'-6"	Str						667
P1030	10	15'-8"	Str						674
P1031	10	15'-11	Str						685
P1032	10	16'-1"	Str						692
P1033	10	16'-2"	Str						696
P1034	10	16'-4"	Str						703
P1035	10	16'-4"	Str						703
P1036	10	16'-2"	Str						696
P1037	10	16'-3"	Str						699
P1038	10	16'-4"	Str						703
P1039	10	16'-5"	Str						706
P1040	10	16'-4"	Str						703
P1041	10	16'-2"	Str						696
P1042	10	16'-0"	Str						688
P1043	420	7'-4"	2	1'-5"	6'-3"	0"			13,253
P801	399	9'-10"	1	7'-8"					10,476
P802	48	32'-4"	12	31'-8"					4,144
P803	72	31'-9"	Str						6,008
P701	120	31'-1"	Str						7,624
P601	336	5'-8"	2	2'-0"	2'-0"	2'-0"			2860
P501	222	7'-8"	Str						1775

PIERS

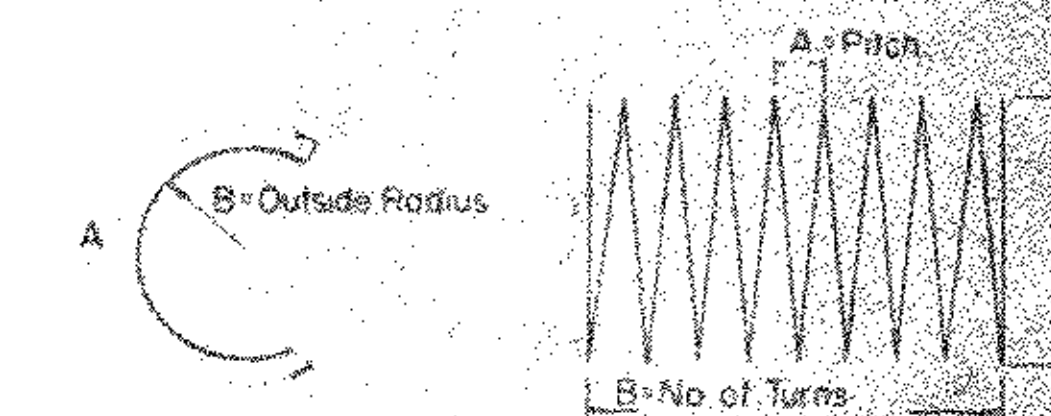
MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
5P401	5	16'-3"	13	4½"	46	2'-8"			1537
5P402	4	16'-4"	13	4½"	46	2'-8"			1236
5P403	5	15'-11"	13	4½"	45	2'-8"			1508
5P404	3	15'-1"	13	4½"	43	2'-8"			860
5P405	5	15'-3"	13	4½"	44	2'-8"			1448
5P406	6	15'-5"	13	4½"	44	2'-8			1755
5P407	1	15'-6"	13	4½"	44	2'-8"			294
5P408	1	15'-8"	13	4½"	45	2'-8"			297
5P409	3	15'-11"	13	4½"	45	2'-8"			905
5P410	3	16'-2"	13	4½"	46	2'-8			918
5P411	6	16'-4"	13	4½"	46	2'-8"			1654
								Total	87,448

SUPERSTRUCTURE

MARK	NO	LENGTH	TYPE	A	B	C	D	E	WEIGHT
5601	291	34'-3	Str						14,970
5602	298	25'-6"	Str						11414
5603	589	29'-10"	Str						26393
5604	1680	30'-0"	Str						75701
5605	280	23'-2"	Str						9743
5606	309	22'-6"	Str						10443
5607	8	5'-3"	Str						63
5608	Ser*29	25'-2" to 5'-5¾	Str	in increments of 8 7/16"					667
※ 5609	Ser 45	34'-10 to 5'-10⅞	Str	in increments of 8 7/16"					2888
5610	Ser 29	29'-5" to 9'-8¾	Str	in increments of 8 7/16"					853
5611	10	5'-0"	Str						75
5612	Ser 36	32'-1" to 7'-4¾	Str	in increments of 8 7/16"					1067
5613	Ser 36	28'-9 to 4'-1¾	Str	in increments of 8 7/16"					889
5614	2 Ser 36	30'-2" to 5'-6¾	Str	in increments of 8 7/16"					1932
5615	587	28'-10"	Str						25422
5616	295	24'-8"	Str						10930
5617	292	33'-2"	Str						14546
5618	Ser 28	24'-2" to 5'-2½"	Str	in increments of 8 7/16"					618
5619	Ser 28	29'-6" to 10'-6⅛	Str	in increments of 8 7/16"					842
5620	2 Ser 43	35'-6 to 5'-11⅞	Str	in increments of 8 7/16"					2678
5621	Ser 31	30'-11⅞ to 9'-10	Str	in increments of 8 7/16"					949
5622	Ser 31	26'-0 to 4'-10⅞	Str	in increments of 8 7/16"					720
5623	2 Ser 37	31'-9 to 6'-5⅛	Str	in increments of 8 7/16"					2122
5624	10	5'-4"	Str						80
5625	10	5'-9"	Str						86
5501	256	5'-4"	10						1424
5502	512	2'-0"	2	7½	1'-0"	7½"			1068
5503	256	2'-2"	2	1'-8"	7½"				578
5504	256	3'-3"	4	9"					868
5505	24	10'-1"	Str						252
5506	16	7'-0"	Str						116
5507	32	5'-2"	Str						172
5508	48	14'-8"	Str						734
5509	24	11'-0"	Str						275
5510	128	2'-8"	Str						356
5511	256	1'-10"	2	7"	11"	7"			490
5512	14	9'-7"	15						140
5513	8	3'-1"	Str						26
								TOTAL	222[illegible] 590

* Ser. = Series of

※ 2 Series of 45



TYPE 14 TYPE 13

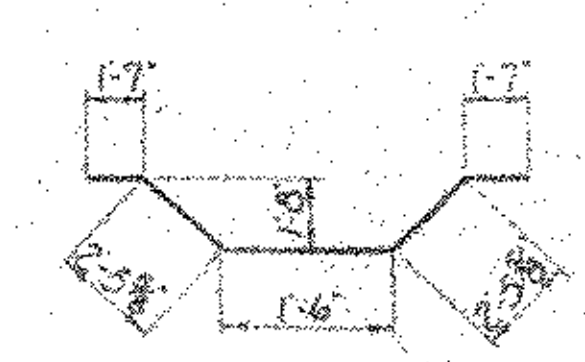
REPLACEMENT BARS

MARK	NO	LENGTH	TYPE	A	B	C
RE-1001	3	8'-3"	Str			
RE-801	2	7'-6"	Str			
RE-701	1	7'-3"	Str			
RE-601	12	6'-11"	Str			
RE-501	2	6'-7"	Str			
RE-401	1	6'-3"	14	6'-3"	1'-4"	

NOTES

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No of Turns" shown is the "Length" divided by the pitch, plus three turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformation but shall in other respects conform to Item 509. 1½ closed coils shall be provided at the ends of each spiral unit. Four steel channels, tee or angle spacers, weighing approximatly 0.80 lbs per lin ft of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers based on 0.80 lbs per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE: The bar size is indicated in the bar mark. The first digit where three digits are used, the first two digits where four are used, indicate the bar size number. For example A506 is a No 5 size bar, and P1101 is a No 11 size bar.



TYPE 15

14/18

FRANKLIN ENGINEERING, LIMITED
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE No. FRA-62-2095
over STELZER ROAD

FRANKLIN COUNTY

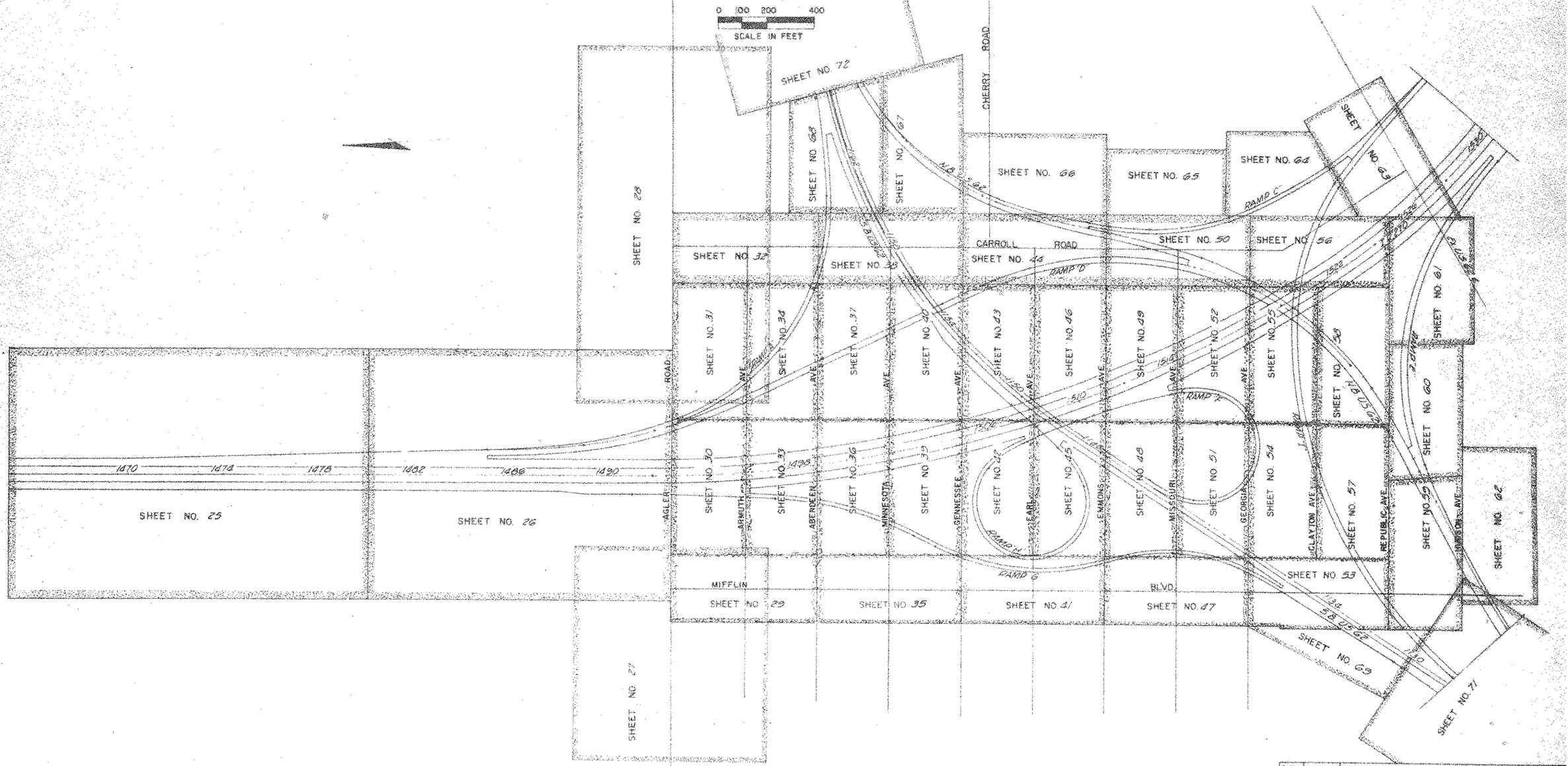
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
[illegible]	F.G.		M.G.	[illegible]

SCHEMATIC DRAWING

REG. NO.	STATE	PROJECT	
2	OHIO	I-270-5(10)	

MIFFLIN TOWNSHIP
T. IN., R. 17 W., SEC'S 1 & 4
UNITED STATES MILITARY LANDS

FRANKLIN COUNTY
FRA-270-25.39N
FRA-42-29.23
LIMITED ACCESS
I-270-5(7)R/W ONLY



REV.	DATE	DESCRIPTION

TYPE FUND
I

CENTERLINE SURVEY PLAT

INTERSTATE ROUTE 270 SECTION 25.39 N
CITY OF COLUMBUS
FRANKLIN COUNTY, OHIO
MIFFLIN TWP. R.17W., T.1N., SEC. 1 & SEC. 4
UNITED STATES MILITARY LANDS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)6	

FRANKLIN COUNTY
FRA-62-20.83
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
1-of-3

Received ___ ___ ___ 19___
Recorded ___ Dec. 2 ___ 1969
Book 40 ___ Page 116 ___
County Recorder

Ref. Nos	BEARING	STATION
1 to 2	S 6°23'26" W	
3		SCD-1485+00.00
2 to 4	S 3°36'34" E	
5		CSD-1493+09.00
4 to 6	S 15°52'46" E	
7		PC A-1493+13.61
7 to 8	S 17°31'30" E	
9 to 10	S 3°35'03" W	
11		PC G-1496+38.35
10 to 12	S 6°32'33" W	
13		PC 1491+90.00

0 200 400 600
SCALE IN FEET

(14) CURVE DATA
E.R.-270
PI Sta 1506+38.66
Δ: 33°13'56"
D: 1°08'00"
R: 5055.51'
L: 2332.25'
T: 1208.66'
E: 220.91'

(2) CURVE DATA
RAMP D
PI Sta D-1487+66.82
L: 400.00
D: 3°00'00"
R: 1909.86'
Θs: 6°00'00"
D: 3.49'
K: 199.93'
x: 399.56'
y: 13.95'
LT: 266.82'
ST: 133.47'
LC: 399.81'

(4) CURVE DATA
RAMP D
PI Sta 1491+05.29
L: 12°16'12"
D: 3°00'00"
R: 1909.86'
L: 409.00'
T: 205.29'
E: 11.00'

(6) CURVE DATA
RAMP D
PI Sta D-1492+32.47
L: 400.00'
D: 3°00'00"
R: 1909.86'
Θs: 6°00'00"
D: 3.49'
x: 399.56'
y: 13.95'
LT: 266.82'
ST: 133.47'
LC: 399.81'

(8) CURVE DATA
RAMP A
PI Sta A-1500+01.28
Δ: 71°30'30"
D: 6°00'00"
R: 954.93'
L: 1191.90'
T: 687.62'
E: 221.81'

(10) CURVE DATA
RAMP G
PI Sta G-1493+99.24
Δ: 2°59'30"
D: 0°30'00"
R: 11,459.16'
L: 598.35'
T: 299.24'
E: 3.91'

(12) CURVE DATA
RAMP G
PI Sta G-1500+02.81
Δ: 28°00'00"
D: 6°00'00"
R: 1432.39'
L: 600.00'
T: 304.47'
E: 32.00'

END PROJECT	BEGIN PROJECT
FRA-270-25.39N	FRA-270-25.39N
STA. 1458+00.00	STA. 1452+00.00

Monument Pin to be ½" Steel.

NOTE:
See Standard Construction Drawing MC-1 for Reference Monument Detail

8" Dia.

3'-6"

DETAIL OF REFERENCE MONUMENT

SAXON DRIVE
SAXON COURT
CARROLL ROAD
LEONARD PARK EXTENSION SUB.
ARMUTH
ABERDEEN
AVE
AVE
AVE
MIFFLIN BLVD.
AGLER ROAD
PLAT BOOK 18 PAGE 59
PLAT BOOK 36 PAGE 148
VILLAGE OF GAHANNA
CITY OF COLUMBUS
VILLAGE OF GAHANNA
MIFFLIN TWP.
Match Line Sta 1490+00.00
Sta 25+00.00, Agler Road = Sta 1492+56.68 I.R.-270
Sta D-1485+00.00, Ramp D = Sta 1485+00.00, 1270, 106.00 Rt.
Sta 0+00, Code Rd. = Sta 1472+25.19, I.R.-270
Sta G-1491+00.00, Ramp G = Sta 1491+00.00, 1270, 78.00 Rt.
Ramp "A"
Ramp "D"
Ramp "G"
1490
1470 ℄ Survey ℄ Construction I.R.-270
N 90° 00' 00" W
N 90° 00' 00" E
N 3°35'03" W
SEE SHEET No 2
1460

LEGEND

● Concrete Monuments

CONCRETE MONUMENTS TO BE PLACED ON CENTERLINE AT FOLLOWING LOCATIONS DURING CONSTRUCTION (I.R.-270)	
P.O.T. Sta. 1456+00.00	
P.O.T. Sta. 1464+00.00	
P.O.T. Sta. 1472+00.00	
P.O.T. Sta. 1480+00.00	
P.O.T. Sta. 1488+00.00	
P.C. Sta. 1491+90.00	
P.O.C. Sta. 1500+00.00	

CONCRETE MONUMENTS TO BE PLACED AT THE FOLLOWING LOCATIONS DURING CONSTRUCTION		
	RAMPS	AGLER RD.
A P.C. Sta 1493+13.61, L.T. 46, RT. 30		Sta. 18+00.00, L.T. 17, RT. 17
A P.O.C. Sta 1499+00, L.T. 8, RT. 27		Sta. 34+00.00, L.T. 17, RT. 17
D T.S. Sta. 1485+00, L.T. 11, RT. 32		
D S.C. Sta. 1489+00, L.T. 16, RT. 31		
D C.S. Sta. 1493+09, L.T. 24, RT. 29		
G P.C. Sta. 1491+00, L.T. 53, RT. 9		
G P.C.C. Sta. 1496+38.35, L.T. 20, RT. 3		

This improvement has been declared a Limited Access Highway from Station 1452+00.00 to Station 1528+00.00 By action of the Director of Highways on February 14, 1969 and Recorded in Volume 50 Page 333 of the Directors Journal, Pursuant to Law

I hereby Certify that this Plat is a true Delineation of a Survey made for the Ohio Department of Highways in 1968 by Franklin Engineering Limited, Columbus, Ohio

Date 11-6-68
Reg. Surv. No. 6723

Signed Richard D. Jackson
Richard D. Jackson
Date 12-21-69 Division Deputy Director

CENTERLINE SURVEY PLAT

INTERSTATE ROUTE 270 SECTION 25.39 N
CITY OF COLUMBUS
VILLAGE OF GAHANNA
FRANKLIN COUNTY, OHIO
MIFFLIN TWP., R.17W., T.1N., SEC. 4
UNITED STATES MILITARY LANDS

REG. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(13)	

FRANKLIN COUNTY
FRA-62-10.85
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

2-of-3

Received ____ 196__
Recorded Dec. 2 1969
Book 40 Page 116
County Recorder

Ref No's	BEARING (I.B. 270)	STATION
13 to 14	S3°35'03"W	
14		PI 506+98.66
14 to 15	S29°38'33"E	
15		PCC 1521+21.25
	(NB SR 62	
16		PT 1521+37.05
16 to 17	N53°22'31"E	
17		PI 1123+37.08
17 to 19	N53°22'31"E	
18		SC 1124+37.05
19 to 21	N62°59'22"E	
19		PI 1126+73.97
20		CS 1129+17.75
21		PI 1130+17.70
21 to 22	N65°59'22"E	
22		ST 1132+17.75
23		TS 1135+48.72
23 to 26	N58°19'22"E	
25		SC 1139+48.72
26 to 28	N23°33'48"E	
26		PI 1144+12.54
27		CS 1148+51.49
28 to 31	N15°53'48"E	
29		ST 1152+31.49
30		TS 1153+38.01
31		PI 1156+05.10
31 to 33	N25°53'48"E	
32		SC 1157+38.01
33		PI 1162+51.90
33 to 35	N74°11'48"E	
34		CS 1167+02.01
35		PI 1168+37.79
35 to 36	N84°11'48"E	
36		ST 1171+04.01
37		TS 1135+48.42
37A		PI 1138+15.19
37 to 37A	N36°52'52"E	
38		SC 1139+48.42
37A to 39	N41°52'52"E	
39		PI 1157+47.88
39 to 41	N80°20'21"E	
40		CS 1161+86.35
41		PI 1166+20.28
42		ST 1168+86.85
43		PI A 1500+01.28
43 to 44	S89°06'20"E	
43		PCC A 1505+05.51
44		PI A 1507+76.84
44 to 45	N83°00'53"E	
45		PT A 1510+47.30
12 to 46	330°34'33"W	
46		PT C 1502+98.35
47		PC C 1504+02.83
48		PI C 1507+62.21
48 to 51	S10°40'16"E	
49		PT C 1510+90.28
50		PC C 1512+21.63

Ref No's	BEARING	STATION
51		PI C 1516+69.07
51 to 53	S21°26'36"W	
52		PCC C 1516+90.15
53		PT C 1517+98.29
53 to 54	S35°26'56"W	
54		PT C 1518+98.13
	(RAMP K)	
55		PCK 1120+96.52
55 to 56	N49°11'00"E	
56		PI K 1121+19.74
56 to 57	N36°52'52"E	
57		PI K 1130+50.00
	(RAMP E)	
58		PC E 1512+76.05
58 to 59	N65°59'22"E	
59		PI E 1516+46.98
59 to 61	N12°09'07"E	
60		PCE 1516+17.90
61		PI E 1521+40.36
61 to 63	S58°07'34"E	
62		CS E 1525+98.56
63 to 64	S68°07'48"E	
63		PI E 1527+32.28
64		SC E 1529+98.56
	(RAMP C)	
65		PCC 1516+16.42
65 to 66	S14°27'43"W	
66		PI C 1517+61.74
66 to 68	S6°27'43"W	
67		PCC 1518+66.32
68		PI C 1520+98.35
68 to 70	S22°57'12"E	
69		PCC C 1523+23.34
70		PI C 1524+11.29
70 to 72	S25°35'28"E	
71		PCC 1524+39.20
72		PI C 1527+16.20
72 to 73	S42°49'12"E	
73		PI C 1529+09.92

0 200 400 600
SCALE IN FEET

END PROJECT	BEGIN PROJECT
FRA-270-25.39N	FRA-270-26.76N
STA 1524+00.00	STA 1524+00.00

LEGEND
● Concrete Monuments

Monument Pin
½" Steel.
8" Dia.

NOTE:
See Standard Construction Drawing MC-1 for Reference Monument Detail

DETAIL OF REFERENCE MONUMENT

Ramp "A"	
PCC-1505+05.51 Lt 4, Rt 20	POC 1521+00.00 Lt 28 Rt 11
PT-1510+47.30 Lt 2, Rt 20	Ramp "B"
Ramp "C"	PT-1502+98.35 Lt 4, Rt 21
PCC-1518+66.42 Lt 4, Rt 20	PC-1504+02.83 Lt 4, Rt 2
PCC-1523+23.34 Lt 4, Rt 20	POC 1508+00.00 Lt 4, Rt 2
	PT-1510+90.28 Lt 4, Rt 4
	PC-1512+21.63 Lt 4, Rt 4
Ramp "E"	POC 1514+00.00 Lt 4, Rt 4
PC-1512+76.05 Lt 54, Rt 9	POC-1516+98.13 Lt 21, Rt 4
PCC-1516+17.50 Lt 74, Rt 9	PT-1518+98.13 Lt 55 Rt 9

CONCRETE REFERENCE MONUMENTS TO BE PLACED AT THE FOLLOWING LOCATIONS DURING CONSTRUCTION

Ramp "K"	
PC-1154+93.52 Lt 4, Rt 20	POC 1159+00.00
PT-1130+50.00 Lt 9, Rt 32	C S-1164+86.85
	ST-1168+86.85
S.B. U.S. 62	
PT-1129+97.04 Lt 84 Rt 93	N.B. U.S. 62
POT 1129+00.00	TS-1121+37.05 Lt 81 Rt 31
POT-1135+00.00	SC-1124+37.05 Lt 41 Rt 23
ROT-1141+00.00	TS-1135+48.42 Lt 54 Rt 21
TS-1135+48.42 Lt 54 Rt 21	SC-1139+48.72 Lt 41 Rt 11
POC-1151+00.00 Lt 63 Rt 26	CS-1138+51.49 Lt 83 Rt 11

TS-1153+38.01 Lt 30 Rt 35	
SC-1157+38.01 Lt 25 Rt 30	
POC 1160+00.00 Lt 30 Rt 13	
CS-1162+02.01 Lt 30 Rt 12	
ST-1171+04.01 Lt 16 Rt 12	
I-R-270	
POC Sta. 1506+00.00	
POC Sta. 1512+00.00	
POC Sta. 1518+00.00	
POC Sta. 1524+00.00	

This improvement has been declared a Limited Access Highway from Station M52+00.00 to Station 1524+00.00 by action of the Director of Highways on January 31, 1963 and Recorded in Volume 52 Page 68 and 69 of the Directors Journal, Pursuant to Law

I hereby Certify that this Plat is a true Delineation of a Survey made for the Ohio Department of Highways in 1968 by Franklin Engineering Limited, Columbus, Ohio.

Harry L. Hoffa Date 11-12-69
Reg. Sur. No. 6773

Signed Richard D. Jackson
Date 12-17-69 Richard D Jackson
Division Deputy Director

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

422

4
91

FRANKLIN COUNTY
FRA-62-20.34
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY
3-of -3

CENTERLINE SURVEY PLAT

INTERSTATE ROUTE 270 SECTION 25.39 N
CITY OF COLUMBUS
VILLAGE OF GAHANNA
FRANKLIN COUNTY, OHIO
MIFFLIN TWP., R.17W., T.1N., SEC. 4.
UNITED STATES MILITARY LANDS

Received _____ 196__
Recorded Dec. 2, 1969
Book 40 Page 116
_____
County Recorder

(14)
I.R.-270
Pl. Sta. 1506+38.66
Δ: 33°13.56"
D: 1°09.00"
R: 5055.51'
L: 2932.25'
T: 1508.66'
E: 220.31'

(17)
U.S.-62-N.B.
Pl. Sta. 1123+37.08
L: 300.00'
D: 2°00.00"
R: 2864.79'
Q: 3°00.00"
P: 1.31'
K: 149.99'
x: 299.92'
y: 5.24'
LT: 200.03'
ST: 100.03'
LC: 299.96'

(19)
U.S.-62-N.B.
Pl. Sta. 1126+77.91
Δ: 9°36.51"
D: 2°00.00"
R: 2864.79'
L: 480.70'
T: 240.92'
E: 10.11'

(21)
U.S.-62-N.B.
Pl. Sta. 1130+17.18
L: 300.00'
D: 2°00.00"
R: 2864.79'
Q: 3°00.00"
P: 1.31'
K: 149.99'
x: 299.92'
y: 5.24'
LT: 200.03'
ST: 100.03'
LC: 299.96'

(31)
U.S.-62-N.B.
Pl. Sta. 1156+05.10
L: 400.00'
D: 5°00.00"
R: 1145.92'
Q: 10°00.00"
P: 5.81'
K: 199.80'
x: 398.78'
y: 23.22'
LT: 266.709'
ST: 133.72'
LC: 399.46'

(35)
U.S.-62-N.B.
Pl. Sta. 1168+37.73
L: 400.00'
D: 5°00.00"
R: 1145.92'
Q: 10°00.00"
P: 5.81'
K: 199.80'
x: 398.78'
y: 23.22'
LT: 266.709'
ST: 133.72'
LC: 399.46'

(26)
U.S.-62-N.B.
Pl. Sta. 1184+12.54
Δ: 34°45.34"
D: 3°50.00"
R: 1494.67'
L: 906.77'
T: 467.82'
E: 71.50'

(39)
U.S.-62-S.B.
Pl. Sta. 1157+47.88
Δ: 38°27.39"
D: 2°30.00"
R: 2291.83'
L: 1538.43'
T: 799.46'
E: 135.44'

(41)
U.S.-62-S.B.
Pl. Sta. 1166+20.28
L: 400.00'
D: 2°30.00"
R: 2291.83'
Q: 5°00.00"
P: 2.91'
K: 199.95'
x: 399.70'
y: 11.63'
LT: 266.77'
ST: 133.43'
LC: 399.87'

(8)
RAMP A
Pl. Sta. A-1500+01.24
Δ: 71°30.50"
D: 6°00.00"
R: 954.93'
L: 1191.90'
T: 687.66'
E: 221.81'

(44)
RAMP A
Pl. Sta. A-1507+76.98
Δ: 7°56.67"
D: 1°28.00"
R: 3906.53'
L: 541.60'
T: 271.33'
E: 9.41'

(48)
RAMP 'B'
Pl. Sta. B-1507+62.21
Δ: 41°16.89"
D: 6°00.00"
R: 954.93'
L: 687.45'
T: 359.38'
E: 65.39'

(51)
RAMP 'B'
Pl. Sta. B-1514+69.07
Δ: 38°07.11"
D: 8°00.00"
R: 716.20'
L: 476.50'
T: 247.45'
E: 41.64'

(53)
RAMP 'B'
Pl. Sta. 1517+38.29
Δ: 8°30.00"
D: 4°00.00"
R: 1432.39'
L: 200.00'
T: 100.16'
E: 3.50'

(56)
RAMP 'K'
Pl. Sta. K-1127+73.74
Δ: 8°18.08"
D: 1°30.00"
R: 3819.72'
L: 553.68'
T: 277.23'
E: 10.05'

(59)
RAMP 'E'
Pl. Sta. E-1514+46.98
Δ: 6°49.45"
D: 2°00.00"
R: 2864.79'
L: 341.45'
T: 170.93'
E: 5.10'

(61)
RAMP 'E'
Pl. Sta. E-1521+60.36
Δ: 49°03.09"
D: 5°00.00"
R: 1145.92'
L: 981.05'
T: 522.86'
E: 113.65'

(63)
RAMP 'E'
Pl. Sta. E-1527+32.28
L: 400.00'
D: 5°00.00"
R: 1145.92'
Q: 10°00.00"
P: 5.81'
K: 199.80'
x: 398.78'
y: 23.22'
LT: 266.709'
ST: 133.72'
LC: 399.46'

(66)
RAMP 'C'
Pl. Sta. C-1517+41.74
Δ: 10°00.00"
D: 4°00.00"
R: 1432.39'
L: 250.00'
T: 125.32'
E: 5.47'

(68)
RAMP 'C'
Pl. Sta. C-1520+99.35
Δ: 27°28.55"
D: 6°00.00"
R: 954.93'
L: 456.92'
T: 232.92'
E: 28.00'

(70)
RAMP 'C'
Pl. Sta. C-1528+11.29
Δ: 7°38.15"
D: 1°30.00"
R: 3819.72'
L: 175.86'
T: 87.94'
E: 1.01'

(72)
RAMP 'C'
Pl. Sta. C-1527+16.20
L: 171°13.44"
D: 4°00.00"
R: 1432.39'
L: 430.72'
T: 217.00'
E: 16.32'

This improvement has been declared a Limited Access Highway from Station 1832+00.00 to Station 1524+00.00 by action of the Director of Highways on August 3, 1965 and Recorded in Volume 52 Page 138 of the Directors Journal, Pursuant to Law.

I hereby Certify that this Plat is a true Delineation of a Survey made for the Ohio Department of Highways in 1968 by Franklin Engineering Limited Columbus, Ohio.

Thomas J. Shaffer
Reg. Sur. No. 6179
Date 6/18/69

Signed Richard D Jackson
Richard D Jackson
Division Deputy Director
Date 10-27-69

PROPERTY MAP

0 100 200 300 400
SCALE IN FEET

FED. RD. DIV.-NO.	STATE	PROJECT	
2	OHIO	I-270-5(19)	

FRANKLIN COUNTY FRA-GE-20.83
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

199 (WD) LEWIS R. LYNCH & SANDRA K. LYNCH
198 (WD) JAMES W. BROWNING & MARY L. BROWNING
200 (WD) THURMAN S. BULEN & EVELYN M. BULEN
201 (WD) EDWARD P. GUZIK & IRENE T. GUZIK

Res. 11,716 S.F. (199 WD)
Res. 11,716 S.F. (198 WD)
Res. 0.449Ac. (201 WD)
(200 WD) Res. 0.358Ac.
(181 WD)

SAXON PLACE
PENNY LANE
PENNY COURT
COLDIT ROAD

BROOKSIDE SALES INC. (181 WL)
BROOKSIDE SALES INC. Res. 17.131Ac.

VILLAGE OF GAHANNA
CITY OF COLUMBUS ELLA-RW
LA-R/W
BROOKSIDE SALES INC. (181 WL)

VILLAGE OF MIFFLIN & GAHANNA TOWNSHIP
LAWRENCE O. THOMSON Res. 1.359Ac.
LA-R/W
(183 WL)

HAROLD E. VAN PELT & JEWELL VAN PELT Res. 1.875 Ac. (197 WD)
HELEN L. CAUDILL — Parcel 196 WL 1.576 Ac. Landlocked (196 WL)
LA-R/W
JOHN A. GALLAGHER & ANGELA F. GALLAGHER (185 WL)
JOHN A. GALLAGHER SR.

1465 1470 1475 1480 1485 1490

PETE FREGONAS & MARY R. FREGONAS (182 WL)
LA-R/W
Res. 2.017 Ac.

VIOLET M. MOONEY (187 WL)
WILLIAM R. KNAUER (188 WL)
LA-R/W
EDWARD W. KNAUER Res. 1.892 Ac. (195 WD)
JAMES E. REID Res. 1.880 Ac. (194 WD)
JAMES STEPHENS & DAULINE STEPHENS Res. 1.848 Ac. (193 WD)
JAMES M. FRANCIS & ALICE FRANCIS Res. 1.855 Ac. (192 WD)
RUSSELL L. PATTON & ALICE L. PATTON Res. 1.863 Ac. (191 WD)
MARIE E. HOLMES Res. 3.750 Ac. (190 WD)
CITY NATIONAL BANK (TRUSTEE) Res. 3.795 Ac. (189 WD)
TOM E. MORRIS & R C MOSSHOLDER (187 WD)

Ex. LA-R/W
CONSTRUCTION CENTERLINE
HAVENWOOD PROPERTY INC.
ELBERT L. GREEN & GENEVIA GREEN (182 WL) Res. 1.1046Ac.

BEGIN ACQUISITION
FRA-270-25.39N
STA. 1466+06.59
A PORTION OF I-270-5(7) R/W ONLY

UTILITIES

Columbus & Southern Ohio Electric Company
215 N Front St, Columbus, Ohio.

Ohio Bell Telephone Company
111 N. Fourth St, Columbus, Ohio

Water Division, City of Columbus
90 W Broad St. Columbus, Ohio.

Columbia Gas of Ohio Inc.
99 N. Front St, Columbus, Ohio

Sewerage Division, City of Columbus
90 W Broad St, Columbus, Ohio

C.R. 16
Sec. 6
Sec. 1
AGLER ROAD
MATCH LINE SEE SHEET No. 8

PROPERTY MAP

0 100 200 300 400
SCALE IN FEET

FED. ROAD DESIGNATION	STATE	PROJECT	
2	OHIO	I-270-5(12)	

FRA-62-20.83
FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

134
6
21

MATCH LINE SEE SHEET No.5

SEC. 1 SEC. 2 SEC. 12 SEC. 11 SEC. 10 SEC. 9 SEC. 8 SEC. 7 SEC. 1 SEC. 4

AGLER ROAD (C.R. 16)

ARMUTH AVENUE

ABERDEEN AVENUE

MINNESOTA AVENUE

GENESSEE AVENUE

EARL AVENUE

EMMONS AVENUE

MATCH LINE SEE SHEET No.7

MIFFLIN TWP.

VILLAGE OF GAHANNA
CORPORATION LINE
FRANKLIN COUNTY

CHERRY ROAD

CARROLL ROAD

RAMP A

RAMP D

RAMP E

RAMP F

RAMP G

RAMP H

RAMP R

RAMP S

RAMP T

LA-RW

Ex LA

SBUS-62

NBUS-62

N.B. U.S. 62

I-270

Rec. Mining Co.

Conrail R.R.

Big Walnut Creek

CONNEST K. RUCK
FLORENCE L. RUCK
Res. 1.412 Ac.

JOHN V. SCHWAB
LAURAMAE SCHWAB
Res. 1.799 Ac.

CLINORA G. DEWEESE
Res. 1.776 Ac.

CLIFFORD L. CHAPMAN
Res. 1.737 Ac.

JAMES A. WEIDNER
Res. 1.661 Ac.

THE BELLWOOD REALTY CO
Res. 1.600 Ac.

ROBERT N. WEIDNER
MARILYN F. WEIDNER
Res. 1.533 Ac.

LORRAINE C. WEIDNER
Res. 1.983 Ac.

D. L. GREEN
P.L. GREEN
Res. 1.965 Ac.

LOREN B. CANADA
MARJORIE P. CANADA
Res. 1.994 Ac.

RICHARD R. GIBBONS
RUTH ELLA GIBBONS
Res. 1.827 Ac.

JUANITA BAKER
Res. 1.710 Ac.

WALTER W. HYATT
EVELYN E. HYATT
Res. 1.522 Ac.

MID FAIA SHAW
Res. 1.861 Ac.

ELNORA J. FETCH
Res. 0.891 Ac.

CLYDE S. FERREE
EILEEN M. FERREE
Res. 0.891 Ac.

DELMAN BUELL
MARTHA A. BUELL
Res. 0.891 Ac.

O.M. VARNOVA
JANET M. BOONE
Res. 0.891 Ac.

HOWARD O. BUCY
DOROTHY C. BUCY
Res. 1.134 Ac.

M.M. WINNETH
P. GLADYS I. WINNETH
Res. 0.355 Ac.

REV.	DATE	DESCRIPTION
	9-10-70	NEW OWNER PARCEL 869 WL

TYPE FUND
I

PROPERTY MAP

PROPERTY MAP

SCALE IN FEET 0 100 200 300 400

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(R)	

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62-20.83

MATCH LINE SEE SHEET No. 6

EMMONS AVENUE · MISSOURI AVENUE · GEORGIA AVENUE · CLAYTON · GROSSE LANE · REPUBLIC · HUDSON · WINDON

MIFFLIN BLVD · MIFFLIN TWP. · VILLAGE OF GAHANNA CORPORATION LINE

RAMP D · RAMP E · RAMP F · RAMP G · RAMP H · RAMP I

N.B. U.S. 62 · S.B. U.S. 62 · I-270 · I-270(S) · I-270(N)

JOHN C. TOWN FARM TRACT · JEANNINGS STEVENS & GROSSE STEVENS SUBD. · HENRY J. HERRMAN & MARY DONNA HERRMAN

MERTON P. & CHARLOTTE MAIN Res. 4927 Ac. (702)

RAY & KATHRYN FOX Res. 2.500 Ac. (702)

WILLIAM E. & MARY N. DAVIS Res. 26.39 Ac. (703)

JUANITA M. GUNDEL FINGER Res. 1.068 Ac. (701)

ESTHER M. SCHWAB Res. 1.645 Ac. (690)

FRED E. DAWSON & HAZEL M. DAWSON

JOHN F. WEEKLEY & PATRICE M. WEEKLEY Res. 2.237 Ac. (634)

DEANNA G. STEVENS & DOROTHY E. STEVENS (636)

DENNIS W. ROE & DONNA J. ROE Res. 0.702 Ac. (635)

DENNIS ROE & SALLY ROE (635A)

FORREST L. DUNLAP & DORA L. DUNLAP (637)

JOHN F. WEEKLEY & PATRICE M. WEEKLEY (634)

ROBERT A. & PEGGY L. CRAWFORD & F. Z. EAGLE

ERNEST L. & LOUISE M. FLANNIGAN

JOHN L. & MARY MURRAY

CARL D. & PHYLLIS E. ZIMMERLY

WILLIAM & MARGARET CRISTER

CARL R. & MARTHA MITCHELL

FRED E. & MARY E. PARRISH

JOHN F. & DONNA L. FLANNIGAN

END PROJECT	BEGIN PROJECT
FRA-270-25.39N STA. C-1525+50.00	FRA-270-26.76N STA. C-1525+50.00
FRA-270-25.39N STA. I-1525+50.00	FRA-270-26.76N STA. I-1525+50.00
FRA-270-25.39N STA. I-1524+00.00	FRA-270-26.76N STA. I-1524+00.00

I-270-5 (7)	I-270-
END ACQUISITION FRA-270-25.39N STA 1526+73.97	BEGIN ACQUISITION FRA-270-26.76N STA-1526+73.97

END PROJECT	BEGIN PROJECT
FRA-270-25.39N STA. E-1528+00.00	FRA-270-26.76N STA E-1524+00.00

REV	DATE	DESCRIPTION

TYPE FUND I

PROPERTY MAP

State Job No. 06652

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

FRA-62-2083

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

NO. OF BUILDINGS---
NO. OF PROPERTIES---
NO. OF PARCELS---

PARCEL NO.	OWNER	AUD'S No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
181 WL	BROOKSIDE SALES, INC.	3619	I	[illegible]	[illegible]	*23.822 Ac.	2.107 Ac.	2.010 Ac.	0.197 Ac.	1.940 Ac.	—	17.131 Ac.	———	25	*Includes 0.059 Acres in SARCH LN. & 0.023 with Controlled Streets occupying 1.96.9 Ac + 0.033 Ac in 0.068' Road
181 WD	" " " "	3620						0.266 Ac.	0.145 Ac.	0.121 Ac.	—			25 & 28	
181-T	" " " "	3720						0.070 Ac.		0.070 Ac.	—			25 & 28	To Construct Driveway
182 WL	GILBERT L. GREEN & SENOIA GREEN	2344	I	2751	684	12.5 Ac.	0.403 Ac.	0.368 Ac.	0.035 Ac.	0.311 Ac.	Yes	———	11.046 Ac.	25	
182-T	" " " "		I					0.010 Ac.		0.010 Ac.	—	———	———	25	To Construct Turnaround
183 WL	LAWRENCE D. THOMSON	3163	I	2850	112 & 113	5.000 Ac.	0.147 Ac.	3.601 Ac.	0.101 Ac.	3.500 Ac.	—	1.359 Ac.	———	25 & 26	
184 WL	PETE FRESCONAS & MARY R. FRESCONAS	3164	I	2885	88	5.000 Ac.	0.147 Ac.	2.903 Ac.	0.087 Ac.	2.816 Ac.	—	———	2.017 Ac.	23 & 26	
184 WD	" " " "		I					0.184 Ac.	0.058 Ac.	0.126 Ac.	—	———	———	25	
185 WL	JOHN A. GALLAGHER & ANGELA K. GALLAGHER	2748	I	1587	208	2.000 Ac.	0.058 Ac.	2.000 Ac.	0.058 Ac.	1.942 Ac.	—	———	———	24	
186 WL	JOHN A. GALLAGHER, SR.	2749 2750	I	[illegible]	5	4.000 Ac.	0.105 Ac.	4.000 Ac.	0.105 Ac.	3.892 Ac.	YES	———	———	26	
187 WL	VIOLET M. MOONEY	2750	I	[illegible]	[illegible]	2.000 Ac.	0.058 Ac.	2.000 Ac.	0.058 Ac.	1.942 Ac.	YES	———	———	26	
188 WL	WILLIAM R. KNAUER	3691	I	1740	284	*2.000 Ac.	0.058 Ac.	2.028 Ac.	0.058 Ac.	1.970 Ac.	YES	———	———	26	*Calculates 2.026 Ac.
189 WD	CITY NATIONAL BANK (TRUSTEE)	2752 2761	I	2213	318	6.000 Ac.	0.128 Ac.	0.205 Ac.	0.128 Ac.	0.077 Ac.	—	———	3.795 Ac.	27	
190 WD	MARIE E. HOLMES	2753 2754	I	1986	466	4.000 Ac.	0.103 Ac.	0.250 Ac.	0.103 Ac.	0.181 Ac.	—	———	3.750 Ac.	27	
191 WD	RUSSELL L. PATTON & ALICE L. PATTON	2703	I	2389	110	2.000 Ac.	0.050 Ac.	0.137 Ac.	0.050 Ac.	0.087 Ac.	—	———	1.863 Ac.	27	
191-T	" " " "		I					0.022 Ac.	———	0.022 Ac.	—			27	To Construct Driveway
192 WD	JAMES M. FRANCIS & ALICE FRANCIS	2752	I	2833	168	2.000 Ac.	0.050 Ac.	0.145 Ac.	0.050 Ac.	0.091 Ac.	—	———	1.855 Ac.	26 & 27	
192-T	" " " "		I					0.023 Ac.	———	0.023 Ac.	—			26 & 27	To Construct Driveway
193 WD	JAMES STEPHENS & PAULINE STEPHENS	2756	I	2468	403	2.000 Ac.	0.050 Ac.	0.138 Ac.	0.050 Ac.	0.088 Ac.	—	———	1.912 Ac.	26 & 27	
193-T	" " " "		I					0.048 Ac.	———	0.048 Ac.	—			26 & 27	To Construct Driveway
194 WD	JAMES E. REID	2697	I	1780	181	2.000 Ac.	0.050 Ac.	0.160 Ac.	0.050 Ac.	0.106 Ac.	—	———	1.840 Ac.	26 & 27	
194-T	" " " "		I					0.019 Ac.	———	0.019 Ac.	—			27	To Construct Driveway
195 WD	EDWARD H. [illegible]ER	2698	I	1788	282	2.000 Ac.	0.050 Ac.	0.168 Ac.	0.050 Ac.	0.118 Ac.	—	———	1.832 Ac.	26	
195-T	" " " "		I					0.121 Ac.	———	0.121 Ac.	—			26	To Construct Driveway
196 WL	HELEN L. CAUDILL	2753	I	1565 1605	557 556	2.000 Ac.	0.050 Ac.	0.424 Ac.	0.050 Ac.	0.370 Ac.	YES	1.576 Ac.(LL)	———	26	
197 WD	HAROLD E. VAN PELT & JEWELL VAN PELT	2911	I	2075	361	2.000 Ac.	0.050 Ac.	0.125 Ac.	0.050 Ac.	0.071 Ac.	—	1.875 Ac.	———	26 & 28	
197-T	" " " "		I					0.161 Ac.	———	0.161 Ac.	—			26	To Construct Driveway
198 WD	LEWIS R. LYNCH & SANDRA K. LYNCH	2323	I	2469	425	12.010 S.F.	———	294 S.F.	———	294 S.F.	—	11,716 S.F.	———	28	
199 WD	JAMES W. BROWNING & MARY L. BROWNING	2222	I	2503	285	12.010 S.F.	———	294 S.F.	———	294 S.F.	—	11,716 S.F.	———	28	
200 WD	THURMAN S. BULEN & EVELYN M. BULEN	3196	I	2050	513	0.402 Ac.	0.070 Ac.	0.104 Ac.	0.070 Ac.	0.034 Ac.	—	0.368 Ac.	———	28	
200 T	" " " "		I					0.035 Ac.	———	0.035 Ac.	—			28	Ditch Grading
201 WD	EDWARD A. GUZIK & IRENE T. GUZIK	2652	I	2181	181	0.552 Ac.	0.069 Ac.	0.103 Ac.	0.069 Ac.	0.034 Ac.	—	0.448 Ac.	———	28	
202 WD	MARY LUE KINZIE	270, 271	I	2787	627	11,625 S.F.	———	5,719 S.F.	———	5,719 S.F.	Yes	———	11,906 S.F.	27	
202 T	" " " "		I					1,057 S.F.	———	2,034 S.F.				27	To Remove Building
203 WD	SARAH E. MENUTT	273	I	873	593	5,175 S.F.	———	5,175 S.F.	———	5,175 S.F.	—	———	———	29	
204-T	TONEY GALLION & LILLIAN GALLION	274&275	I	[illegible]	[illegible]	10,350 S.F.	———	750 S.F.	———	750 S.F.	—	———	10,350 S.F.	29	To Reconstruct Mifflin Blvd.
205	IRENE A. RINDINGER	270	I	023	206	5,175 S.F.	———							29	Not Required
206	BENJAMIN F. DUNKLE & ISABEL DUNKLE	1290	I	2720	530	5,212.5 S.F.	———							29	Not Required
207-T	JACK B. MYERS & ALICE F. MYERS	1291	I	2693	263	5,212.5 S.F.	———	250 S.F.	———	250 S.F.	—	———	5,212.5 S.F.	29	To Reconstruct Mifflin Blvd
208-T	MILO E. & NELLIE B. LUST	1292	I	982	341	5,212.5 S.F.	———	2,258 S.F.	———	2,258 S.F.	—	———	5,212.5 S.F.	29	To Reconstruct Mifflin Blvd
209 WD	JOHN ZUZAK & MARY ZUZAK	1293	I	353	183	5,212.5 S.F.	———	5,212.5 S.F.	———	5,212.5 S.F.	—	———	———	29	
210 WD	JACK B. MYERS & ALICE F. MYERS	1294 1295	I	[illegible]	[illegible]	11,750 S.F.	———	5,399 S.F.	———	5,399 S.F.	Yes	———	6,351 S.F.	30	
210-T	" " " "		I					2851 S.F.	———	2851 S.F.	Yes			30	To Remove Building
211 WD	HARRY MASSER	1296	I	1288	515	5,875 S.F.	———	2,914 S.F.	———	2,914 S.F.	—	———	8,961 S.F.	30	
211-T	" " " "		I					1,212 S.F.	———	1,212 S.F.	—			30	To Construct Turnaround
212 WL	JAMES STEPHENS & PAULINE STEPHENS	1297 1298	I	1083 1082	[illegible]	11,750 S.F.	———	11,750 S.F.	———	11,750 S.F.	YES	———	———	30	
213 WL	HARRY MASSER	1299 1300	I	1230	515	11,750 S.F.	———	11,750 S.F.	———	11,750 S.F.	—	———	———	30	
214 WL	MARY MASSER	1301	I	1648	112	5,875 S.F.	———	5,875 S.F.	———	5,875 S.F.	—	———	———	30	
215 WL	HARRY MASSER	1302	I	1230	515	5,875 S.F.	———	5,875 S.F.	———	5,875 S.F.	—	———	———	30	
216 WL	WILBUR W. BURGIN	1303	I	1787	563	5,875 S.F.	———	5,875 S.F.	———	5,875 S.F.	—	———	———	30	
217 WL	CHARLES C. CERVENKA & EDNA CERVENKA	1304	I	945	208	5,875 S.F.	———	5,875 S.F.	———	5,875 S.F.	—	———	———	30	
218 WL	MARY MASSER ET AL	1305	I	2939	228	5,875 S.F.	———	5,875 S.F.	———	5,875 S.F.	—	———	———	30	

REV	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(19)	

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

NO. OF PROPERTIES
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
219 WL	MARY MASSER, ET AL	1306	I	2739	228	5.875	——	5.875	——	5.875	—	——	——	31	
220 WL	GEORGE CHING & HELEN L. CHING	1307	I	2227	359	11.750	——	11.750	——	11.750	YES	——	——	31	
221 WD	FRANK A. BROWN & PATRICIA L. BROWN	1308	I	2846	614	5.875	——	2925	——	2925	—	2.950	——	31	
222 WD	CHARLES & EDNA CERVENKA	1310	I	908	278	5.875	——	2.624	——	2.624	—	3.251	——	31	
223 WD	ROY M. THOMAS	1311	I	[illegible]	[illegible]	5.875	——	2.323	——	2.323	—	3.552	——	31	
224 WD	STEPHEN P. FAHERTY	1312	I	2899	424	5.875	——	2.023	——	2.023	—	3.852	——	31	
225 WD	HARRY MASSER	1313	I	1230	515	5.875	——	1.722	——	1.722	—	4.153	——	31	
226 WD	CHARLES LEROY JONES & ANNA AUDRY JONES	1314 1315	I	[illegible]	[illegible]	11.750	——	3.141	——	3.141	—	8.609	——	31	
227 WD	HOWARD N. FISHER	1316	I	1658	534,693	10.625	——	3.271	——	3.271	—	7.154	——	32	
228 WL	HARRY MASSER	1317 1320	I	1238	515	11.750	——	11.750	——	11.750	[illegible]	——	——	31	
229 WL	GEORGE W. MASON	1319	I	1921	279	2.9375	——	2.937.5	——	2.9375	—	——	——	31	
230 WL	FLOYD W. BURGIN	2400	I	850	83	2.937.5	——	2.937.5	——	2.937.5	—	——	——	31	
231 WL	CLAUDE LOWRY	1330 1331	I	[illegible]	[illegible]	11.750	——	11.750	——	11.750	—	——	——	31	
232 WL	HARRY MASSER	1332	I	1595	343	5.875	——	5.875	——	5.875	—	——	——	30	
233 WL	ELMER R. LUMP & GARNET E. LUMP	1333	I	1313	29	5.875	——	5.875	——	5.875	—	——	——	30	
234 WL	MARTHA A. SHAW	2490	I	2581	421	2.937.5	——	2.937.5	——	2.9375	—	——	——	30	
235 WL	G. G. HYLTON	1334	I	1253	570	2.937.5	——	2.937.5	——	2.937.5	—	——	——	30	
236 WL	HARRY MASSER	1335	I	1238	515	5.875	——	5.875	——	5.875	—	——	——	30	
237 WL	LEON P. LOECHLER, TRUSTEE	1336	I	2769	307	5.875	——	5.875	——	5.875	—	——	——	30	
238 WL	DOROTHY MAE ATER	1337	I	859	466	5.875	——	5.875	——	5.875	—	——	——	30	
239 WL	A. ALLEN HOLMES	2028	I	894	131	2.9375	——	2.937.5	——	2.9375	—	——	——	30	
240 WL	ELSIE E. WILLIAMS	1338	I	2746	159	7.637.5	——	7.637.5	——	7.637.5	YES	——	——	30	
241	RALPH T. MATHENY & MARY E. MATHENY	1340	I	2527	397	7.050	——							30	Not Required
242	ELBERT L. GREEN	1341	I	2266	570	5.875	——							30	Not Required
243	JACK B. MYERS & ALICE F. MYERS	1342	I	2007	528	5.875	——							30	Not Required
244 WD	EVA B. BAILER	269	I	2575	7	5.875	——	1281	——	1281	—	——	4.594 S.F.	27	
245 WD	HARRY MASSER	266,267,268	I	1238	515	17.750	——	1625	——	1625	—	——	16,125 S.F.	27	
246	ELMER L. DAWSON & JUDITH A. RAPP	264,265	I	2045	[illegible]		——							27	Not Required
247	TOM E. MORRIS & RC MOSSHOLDER	2725	I	2225	222	2.000 Ac.								27	Not Required
248	WALTER T. WOOD & FRANKIE V. WOOD	2722	I	1797	497	2.000 Ac.								27	Not Required
249	JAMES DUNFEE		I	2140	436	2.000 Ac.								27	Not Required
250	HARRY MASSER	1240	I	1238	515	5.875	——							33	Not Required
251	CLYDE A. RUBY	1241	I	[illegible]	[illegible]	5.875	——							33	Not Required
252 WL	WALTER E. PYLE	1242	I	898	463	5.875	——	587.5	——	587.5	—	——	5.287.5	33	
253 WL	HARRY MASSER	1243 1244	I	1238	515	11.750	——	11.750	——	11.750	—	——	——	33	

REV	DATE	DESCRIPTION
	5-3-70	New Owners 228WD & 229WD

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)	

FRA-GE-8083
FRANKLIN COUNTY
FRA.-270--25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

NO. OF PROPERTIES--
NO. OF STRUCTURE PARCELS---

PARCEL NO.	OWNER	AUD'S PARCEL No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
254 WL	CARL H. REISELT, JR.	1245	I	1423	115	2937.5	—	2937.5	—	2,937.5	—	—	—	33	
255 WL	ANDREW J. WHITE JR., TRUSTEE	2090	I	1859	61	2937.5	—	2,937.5	—	2,937.5	—	—	—	33	
256 WL	HARRY MASSER	1240	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	33	
257 WL	EILEEN I. COHEN & BERTHA E. RINGER	1241 1242	I	2286	182	11,750	—	11,750	—	11,750	—	—	—	33	
258 WL	HARRY MASSER	1243	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	33	
259 WL	MARY ESTHER EVANS	1250	I	1523	442	5,875	—	5,875	—	5,875	—	—	—	33	
260 WL	CALEB HODSON	1251	I	1222 1208	256 306	5,875	—	5,875	—	5,875	—	—	—	34	
261 WL	ROY C. BALDAUF	2389	I	2567	609	2937.5	—	2,937.5	—	2,937.5	—	—	—	34	
262 WL	JAMES F. SIDERS	1252	I	1683	389	2937.5	—	2,937.5	—	2,937.5	—	—	—	34	
263 WL	JAMES F. SIDERS & MARY E. SIDERS	1253	I	1836	399	2,937.5	—	2,937.5	—	2,937.5	Yes	—	—	34	
264 WL	JAMES F. SIDER	2458	I	1683	387	2,937.5	—	2,937.5	—	2,937.5	—	—	—	34	
265 WL	INA G. CONKLE	1254	I	1193, 2480 2208	337, 297 325	2,937.5	—	2,937.5	—	2,937.5	—	—	—	34	
266 WL	JAMES F. SIDERS	2493	I	1770	176	5875	—	5,875	—	5,875	—	—	—	34	
267 WL	ROY E. OHLINGER & LAWANDA OHLINGER	1255 1256	I	1227 1273	377 161	6012.5	—	6,812.5	—	6,812.5	YES	—	—	34	
268 WL	CARL R. ALBRIGHT	1257	I	1404	617	5,875	—	5,875	—	5,875	YES	—	—	34	
269 WL	GERTRUDE HARDY	1258	I	357	30	5,875	—	875	—	875	—	5000	—	34	
270	ARMANDO A. PEREZ	1259	I	1100	172	5,875	—							34	Not Required
271	MABEL R. NASH	1260	I	1026	617	2937.5	—							34	Not Required
272	WILLIAM SPONAGLE & IVA SPONAGLE	2482	I	1748	223	2937.5	—							34	Not Required
273	HARRY MASSER	1244 2016	I	1238 1285	515 196	7061	—							33	Not Required
274 WL	FRED & DAISY B. SHERRARD	1265	I	1002	298	7844	—	7,844	—	7,844	—	—	—	32	
275 WL	GEORGE R. & OPAL MAE MONROE	1267	I	2098	648	5875	—	5,875	—	5,875	YES	—	—	34	
276 WL	HAROLD C. COTTINGHAM & MARY E COTTINGHAM	1268	I	2117	314	5875	—	5,875	—	5,875	[redacted]	—	—	34	
277 WL	STELLA M. TIMMONS	1269	I	904	398	5875	—	5,875	—	5,875	—	—	—	34	
278 WL	CHARLES W. & BESSIE R. NICHOLS	1270	I	958	870	5875	—	5,875	—	5,875	—	—	—	34	
279 WL	WILLIAM R. MORRISON & ELIZABETH MORRISON	1271	I	946	201	5875	—	5,875	—	5,875	—	—	—	34	
280 WL	HARRY MASSER	1272, 1274 1275	I	1238	515	17,625	—	17,625	—	17,625	—	—	—	34	
281 WL	JOHN V. MCCABE	1276	I	2650	41, 43	5875	—	5,875	—	5,875	—	—	—	34	
282 WL	HILDA BAUMERT	1270	I	849	56	5875	—	5,875	—	5,875	—	—	—	34	
283 WL	HARRY MASSER	1277	I	1238	515	5875	—	5,875	—	5,875	—	—	—	34	
284 WL	EDSEL O. CLARK	1278	I	2371	92	5,875	—	5,875	—	5,875	—	—	—	33	
285 WL	HARRY MASSER	1279	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	33	
286 WL	GEORGE E. LENIGAR & MARJORY LENIGAR	1280	I	1432	180	5,875	—	5,875	—	5,875	—	—	—	33	
287 WL	RICHARD R. & SHIRLEY MCCLAIN	2496	I	2715	243	5,875	—	5,875	—	5,875	YES	—	—	37	
288 WL	BERNICE GUTKNECHT	1282	I	1441	461	5875	—	5,875	—	5,875	—	—	—	33	
289 WL	H. L. MAYNE	1283	I	1842	486	5875	—	5,875	—	5,875	—	—	—	33	

REV.	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.—270—25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

NO. OF PROPERTIES---
NO. OF STRUCTURE PARCELS---

PARCEL NO.	OWNER	AUD'S PARCEL No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
290 WL	HARRY MASSER	1288	I	1238	515	5875	—	5,875	—	5,875	—	—	—	33	
291 WL	JOHN W. EVENER & DORA R. EVENER	1287 1288	I	1685	106	11,750	—	11,750	—	11,750	YES	—	—	33	
292	EVERETTE W. RIDINGER & BEATRICE W. RIDINGER	1181	I	2708	538	5,025	—							35	Not Required
293	ORGIE ADKINS & MARTHA M. ADKINS	1185 1186	I	1886	186	10,625	—							35	Not Required
294	ORGIE ADKINS & MARTHA M. ADKINS	1186	I	2898	340	5,875	—							36	Not Required
295 WL	CALVIN N. BALLNER & CLINTON M. BALLNER	1187	I	957	103	5,875	—	325	—	225	—	—	36503 SQ. FT.	36	
296 WL	ORGIE ADKINS & MARTHA M. ADKINS	1188	I	2337	333	5,875	—	5,875	—	5,875	—	—	—	36	
297 WL	CHARLOTTE M. KRAMER & VERL O. McCREIGHT	1189	I	1917	132	5,875	—	5,875	—	5,875	—	—	—	36	
298 WL	ADA O. JORDAN	1190	I	923 D.B. 1215	70 D.B. 226	5,875	—	5,875	—	5,875	—	—	—	36	
299 WL	HARRY MASSER	1191	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	36	
300 WL	EMERSON F. HARRIS & EDITH E. HARRIS	1192	I	922	590	5,875	—	5,875	—	5,875	—	—	—	36	
301 WL	BONNIE BARRETT	1193	I	1220 D.B. 1226	323 287	5,875	—	5,875	—	5,875	—	—	—	36	
302 WL	KATHLEEN REUTER, ET AL	1194	I	2077	123	5,875	—	5,875	—	5,875	—	—	—	36	
303 WL	HARRY MASSER	1195 1196	I	1238	515	11,750	—	11,750	—	11,750	—	—	—	36	
304 WL	HARRY MASSER	1197	I	1238	515	5875	—	5,875	—	5,875	—	—	—	37	
305 WL	MATHEW C. & EDNA J. NEVINS	1198	I	897	465	5,875	—	5,875	—	5,875	—	—	—	37	
306 WL	RUFUS D. LYNN	1199	I	923	414	5875	—	5,875	—	5,875	—	—	—	37	
308 WL	ANNABELLE MAHONEY	1200	I	1188 1187 D.B. 1218	22 392 D.B. 1218	5,875	—	5,875	—	5,875	YES	—	—	37	
309 WL	SARAH E. WENDELMOOT	2393	I	1945	393	2,937.5	—	2,937.5	—	2,937.5	—	—	—	37	
310 WL	SARAH M. MITCHELL	1201	I	858	181	2,937.5	—	2,937.5	—	2,937.5	—	—	—	37	
311 WL	CLIFFORD DALE HALL	2394	I	2053	427	2,937.5	—	2,937.5	—	2,937.5	—	—	—	37	
312 WL	MARY MASSER	1202	I			2,937.5	—	2,937.5	—	2,937.5	—	—	—	37	
313 WL	JENNIE SHIPMAN	2396	I	832	445	2,937.5	—	2,937.5	—	2,937.5	—	—	—	37	
314 WL	H.L. MAYNE	1203	I	1683	94	2,937.5	—	2,937.5	—	2,937.5	—	—	—	37	
315 WL	ROSE F. DRAKE	1204	I	890	221	5875	—	5,875	—	5,875	—	—	—	37	
316 WL	JOHN A. RADABAUGH & GRACE E. RADABAUGH	1205	I	922	222	5,875	—	5,875	—	5,875	—	—	—	37	
317 WL	ELBERT M. & BETTY J. SIDLE	1206	I	2241	685	5,875	—	5,875	—	5,875	—	—	—	37	
318 WL	ELLA M. McINTIRE	1207	I	1375 822	131 126	5875	—	5,875	—	5,875	—	—	—	37	
319 WL	HERBERT J. MOULD JR. & BETTY S. MOULD	1208	I	2541	268	5233	—	5,233	—	5,233	—	—	—	38	
320 WL	HARRY MASSER	1209	I	1238	515	5,235	—	5,235	—	5,235	—	—	—	38	
321 WL	SCHMIDT & CO.	2395	I	1816	434	2,618	—	2,618	—	2,618	—	—	—	38	
322 WL	GEORGE E. STAKELY	1210, 1211 1212	I	1432 1731	622 624	13097	—	13,097	—	13,097	YES	—	—	38	Previously known as 13.5 WL
323 WL	MARGARET J. STAKLEY	1213	I	2068	652	5875	—	5,875	—	5,875	—	—	—	37	
324 WL	JOHN SHAFER	1214	I	957	317	5,875	—	5,875	—	5,875	—	—	—	37	
325 WL	ESTHER N. & NORMA J. GUREVITZ	1215	I	1669	427	5,875	—	5,875	—	5,875	—	—	—	37	
326 WL	CHARLES J. & NELLIE M. BAUMAN	1216	I	1002	331	5875	—	5,875	—	5,875	—	—	—	37	

REV	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(69)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(71) R/W ONLY

NO. OF PROPERTIES---
NO. OF STRUCTURE PARCELS---

PARCEL NO.	OWNER	AUD.'S PARCEL No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
327 WL	MARIE DICE	2397	I	1228 1971	171 486	2937.5	—	2,937.5	—	2,937.5	—	—	—	37	
328 WL	IVAN C. RUNKLE	1217	I	1196 2078	221 602	2937.5	—	2,937.5	—	2,937.5	—	—	—	37	
329 WL	PEARL O. & FLOSSIE L. BROWN	1218	I	905	185	5,875	—	5,875	—	5,875	YES	—	—	37	
330 WL	ELBERT LEE GREENE	1219 1220	I	2478	353	17,625	—	17,625	—	17,625	YES	—	—	37	
331 WL	BERNICE GUTKNECHT	2398	I	1441	481	2937.5	—	2,937.5	—	2,937.5	—	—	—	37	
332 WL	SCHMIDT & COMPANY	1222	I	1041	28	2937.5	—	2,937.5	—	2,937.5	—	—	—	37	
333 WL	EMMA ZETTA HAMPSON	1223	I	922	521	5,875	—	5,875	—	5,875	—	—	—	37	
334 WL	RANDALL WILEY	1224 1225	I	1211 2013	225 515	11,750	—	11,750	—	11,750	YES	—	—	36	
335 WL	ETHEL A. GARNER	1226	I	1274	75	5,875	—	5,875	—	5,875	YES	—	—	36	
336 WL	ETHEL A. GRIFFIS	1227	I	1445	57	5,875	—	5,875	—	5,875	YES	—	—	36	
337 WL	HARRY MASSER	1228 1229	I	1238	515	11,750	—	11,750	—	11,750	—	—	—	36	
338 WL	RUTH WIEFEL	1230	I	2414	678	5,875	—	5,875	—	5,875	—	—	—	36	
339 WL	HARRY MASSER	1231	I	1595	343	5,875	—	5,875	—	5,875		—	—	36	
340 WL	PIERCE REAL ESTATE INCORPORATED	1232	I	2197	417	5,875	—	5,875	—	5,875	YES	—	—	36	
341 WL	HARRY MASSER	1233	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	36	
342 WL	STORAY A. MacLEOD & FLORENCE MacLEOD	1234	I	1148	449	5,875	—	654	—	456	—	—	5,421 S.F.	36	
343	CLYDE R. FRAZELL & LOIS M. FRAZELL	2221	I	2876	83									28	Not Required
344 WL	RICHARD C. RYDBOM	1127-1131	I	1955	177	26,062.5	—	8,901	—	8,901	YES	—	17,161.5 S.F.	35	
345 WL	FRANCES A. SANDS	1132	I	1633	540	5,875	—	5,875	—	5,875	YES	—	—	39	
346 WL	CLARE MEARTOR	1133	I	1090	227	5,875	—	5,875	—	5,875	—	—	—	39	
347 WL	HARRY MASSER	1134 1135	I	1238	515	11,750	—	11,750	—	11,750	—	—	—	39	
348 WL	ALLEN E. DEPEW & GERTRUDE H. DEPEW	1136	I	946	81	5,875	—	5,875	—	5,875	—	—	—	39	
349 WL	CATHERINE SOINE	1137	I	1964	355	5,875	—	5,875	—	5,875	—	—	—	39	
350 WL	HARRY MASSER	1138 1139	I	1238 1202	515 292	11,750	—	11,750	—	11,750	—	—	—	39	
351 WL	MABEL O. CHAFFIN, ET AL	1140	I	2734	472	5,875	—	5,875	—	5,875	—	—	—	39	
352 WL	JOHN LESLIE FRANCISCO	1141	I	946	458	5,875	—	5,875	—	5,875	YES	—	—	39	
353 WL	HARRY MASSER	1142	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	39	
354 WL	IRA MADISON SMITH & DORIS A. SMITH	1143, 1144 1145	I	1143 1202	383, 389 228	14,687.5	—	14,687.5	—	14,687.5	YES	—	—	40	
355 WL	FRED PARSONS	2390	I	1600	172	2,937.5	—	2,937.5	—	2,937.5	—	—	—	40	
356 WL	FRANK B. CRON	1146	I	1597 2006	253 251	5,875	—	5,875	—	5,875	—	—	—	40	
357 WL	ALBERT H. STOUFFER	1147	I	1893	61	2,937.5	—	2,937.5	—	2,937.5	—	—	—	40	
358 WL	FRED PARSONS	2106	I	1600	172	2,937.5	—	2,937.5	—	2,937.5	YES	—	—	40	
359 WL	VIRGINIA MAUD BELL	1148	I	1944	220	5,875	—	5,875	—	5,875	YES	—	—	40	
360 WL	RAYMOND M. SINGER	1151	I	1939	234	5,875	—	5,875	—	5,875	—	—	—	40	Previously known as 125 WL
361 WL	ELBERT L. GREENE & GENEVIA GREENE	1152	I	2372	201	5,875	3,375	5,875	3,375	2,500	—	—	—	40	Previously known as 126 WL
362 WL	ALBERT T. LUNDBERG	2484	I	859	501	2,622	—	2,622	—	2,622	—	—	—	38	Previously known as 130 WL

REV.	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	I-270-5(71)	

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(71)R/W ONLY

NO. OF PROPERTIES---
NO. OF STRUCTURE PARCELS---

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
363 WL	MARY E. McINTYRE	1135	I	865	515	2623	——	2,623	——	2,623	——	——	——	38	Previously Known as 129 WL
364 WL	LUCY JOHNSON RANDALL	1137	I	808	90	5268.5	——	5,268.5	——	5,268.5	——	——	——	38	Previously Known as 127 WL
365 WL	WALTER J. KELLY ET AL	1150	I	2818	852	5,250	——	5,250	——	5,250	——	——	——	38	
366 WL	HARRY MASSER	1164 1165	I	1238	513	11,750	——	11,750	——	11,750	——	——	——	40	Previously Known as 130 WL
367 WL	A.O. BELL, SR.	1163	I	2631	270	5875	4,525	5,875	4,525	1,350	YES	——	——	40	Previously Known as 131 WL
368 WL	VIRGINIA BELL	1159	I	2633	480	5,875	2,275	5,875	2,275	3,600	YES	——	——	40	Previously Known as 132 WL
370 WL	HARRY MASSER	1166	I	1236	515	5875	——	5,875	——	5,875	——	——	——	40	
371 WL	WILBUR H. POULTON	1167	I	1393	590	5875	——	5,875	——	5,875	——	——	——	40	
372 WL	JOSEPH MOORE	1168	I	1818	571	5875	——	5,875	——	5,875	——	——	——	40	
373 WL	LIZZIE & STOOKEY, ET AL	1169	I	1238 1242	515 164	5875	——	5,875	——	5,875	——	——	——	40	
374 WL	MARTHA BRUNT	1170	I	1237 1238	181 682	5875	——	5,875	——	5,875	——	——	——	39	
375 WL	MICHAEL J. TIERNEY	1171 1172	I	2402	635	11,750	——	11,750	——	11,750	——	——	——	39	
376 WL	HARRY MASSER	1173 1174	I	1238	515	11,750	——	11,750	——	11,750	——	——	——	39	
377 WL	THOMAS J. MARRIS	1175	I	1047	188	5875	——	5,875	——	5,875	——	——	——	39	
378 WL	OTIS BLACKBURN	1176	I	1943	250	5875	——	5,875	——	5,875	——	——	——	39	
379 WL	VERNON E. & GARNET I. TIMMONS	1177 1178	I	1002	528	11,750	——	11,750	——	11,750	——	——	——	39	
380 WL	CHARLIE W. THACKER	1179 1180	I	2133	460	11,750	——	11,750	——	11,750	YES	——	——	39	
381 WL	HOWARD C. LEE & NELLIE E. LEE	1073	I	940	287	5,212.5	——	5,212.5	——	5,212.5	——	——	——	41	
382 WL	MICHAEL A. McFADDEN	1074 1075	I	1002	138	10,425	——	10,425	——	10,425	——	——	——	41	
383 WL	JOHN ANGELONI	1076	I	940	7	5,212.5	——	5,212.5	——	5,212.5	——	——	——	41	
384 WL	A.E. & LELIA R. ALBAN	1077	I	981	363	5,212.5	——	5,212.5	——	5,212.5	——	——	——	41	
385 WL	RAY A. KESSLER	1078	I	1665	14	5875	——	5,875	——	5,875	——	——	——	42	
386 WL	HAROLD B. HAMM	1079	I	2031	353	5875	——	5,875	——	5,875	——	——	——	42	
387 WL	MARY MASSER	1080	I	1862	382	5875	——	5,875	——	5,875	——	——	——	42	
388 WL	HARRY MASSER	1081	I	1238	515	5875	——	5,875	——	5,875	——	——	——	42	
389 WL	MILDRED LOUISE JOYCE	1082	I	2304	161	5875	——	5,875	——	5,875	——	——	——	42	
390 WL	HARRY MASSER	1083	I	1238	515	5875	——	5,875	——	5,875	——	——	——	42	
391 WL	EDGAR R. JOHNSON ET AL	2061	I	2286	875	2937.5	——	2,937.5	——	2,937.5	——	——	——	42	
392 WL	HARRY MASSER	1084 1085	I	1238	515	8812.5	——	8,812.5	——	8,812.5	——	——	——	42	
393 WL	FRANK A. WALKER	1086	I	123 1193 1193	227 327 380	5875	——	5,875	——	5,875	——	——	——	42	
394 WL	JANET LEEMAN, ET AL	1087	I	2102	501	5875	——	5,875	——	5,875	——	——	——	42	
395 WL	HARRY MASSER	1088	I	1238	515	5875	——	5,875	——	5,875	——	——	——	42	
396 WL	WILLIAM R. & BIRDIE O. BOWMAN	1089	I	2490	630	5875	——	5,875	——	5,875	——	——	——	43	
397 WL	HAROLD W. JERMAN & ELLAMY JERMAN	1090	I	2705	591	5875	210	5,875	210	5,665	——	——	——	43	Previously Known as 110 WL
398 WL	ROBERT R. WESTCOTT & LUCILLE P. WESTCOTT	1091	I	1636	44	5875	2,400	5,875	2,400	3,475	——	——	——	43	Previously Known as 111 WL

REV.	DATE	DESCRIPTION
	3-3-70	New Owner Parcel 397 WL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)	

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FRA-62-20.88 I

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

NO. OF PROPERTIES**
NO. OF STRUCTURE PARCELS***

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
399 WL	S.P. HABAN	1098	I	1821	328	5875	3,400	5,875	3,400	2475	—	—	—	43	Previously known as 116 WL
400 WL	EVA KING	1097	I	[illegible]	330 [illegible]	5875	—	5,875	—	5,875	—	—	—	43	Previously known as 117 WL
401 WL	HERBERT R. FRISKE	1098	I	1006	455	5,875	—	5,875	—	5,875	—	—	—	43	
402 WL	VICTOR M. & ANNA A. BRECKLER	1099	I	905	249	5875	—	5,875	—	5,875	—	—	—	43	
403 WL	FRANK R. NUTIS	1103 [illegible]	I	2103	608	13,136	—	13,136	—	13,136	—	—	—	44	
404 WL	LUCILLE L. BAUER	2388	I	861 [illegible]	271 [illegible]	2,629	—	2,629	—	2,629	—	—	—	44	
405 WL	CEASAR DE MATTIES	1103	I	905	471	2629	—	2,629	—	2,629	—	—	—	44	
406 WL	JAMES W. BRIDGES	2479	I	1682	643	2629	—	2,629	—	2,629	—	—	—	44	
407 WL	HARRY & MARY TROSCH	1104	I	940	247	5,260	—	5,260	—	5,260	—	—	—	44	
408 WL	HARRY ASH	1105	I	873	395	5875	—	5,875	—	5,875	—	—	—	43	
409 WL	ASA T. PRICE	1106	I	[illegible]	350 321	5,875	—	5,875	—	5,875	—	—	—	43	
410 WL	HARRY MASSER	[illegible]	I	1238	515	11,750	—	11,750	—	11,750	—	—	—	43	
411 WL	RUTH L. KERN	1108	I	[illegible]	331	5875	—	5,875	—	5,875	—	—	—	43	
412 WL	DANIEL F. OBERDICK	1110	I	840	169	5,875	—	5,875	—	5,875	—	—	—	43	Previously known as 106 WL
413 WL	VIRGIL E. BELL & VADA R. GLECKLER	1111	I	[illegible]	315 [illegible]	5,875	—	5,875	—	5,875	—	—	—	43	Previously known as 107 WL
414 WL	HARRY MASSER	[illegible]	I	1238	515	11,750	—	11,750	—	11,750	—	—	—	43	Previously known as 109 WL
415 WL	HARRY MASSER	1116	I	2501	259	5875	—	5,875	—	5,875	—	—	—	42	
416 WL	MILDRED I. SIEGWORTH & MARJORIE E. PERRYMAN	1117	I	2123	617	5,875	—	5,875	—	5,875	—	—	—	42	
417 WL	CLINTON F. PYLE & NANCY E. PYLE	1118	I	950	412	5875	—	5,875	—	5,875	—	—	—	42	
418 WL	EILEEN I. COHEN & BERTHA E. RINGER	1119	I	2286	102	5875	—	5,875	—	5,875	—	—	—	42	
419 WL	DELMONT O. ROSE & HILDA ROSE	1120	I	[illegible]	576 [illegible]	5875	—	5,875	—	5,875	—	—	—	42	
420 WL	HARRY MASSER	1121	I	1238	515	5875	—	5,875	—	5,875	—	—	—	42	
421 WL	ORPHA C. & NELLIE B. CAIN	1122	I	915	651	5,875	—	5,875	—	5,875	—	—	—	42	
422 WL	OREL C. LEE & HELEN M. LEE	1123	I	946	347	5,875	—	5,875	—	5,875	—	—	—	42	
423 WL	MARY MASSER	1124	I	1862	584	5,875	—	5,875	—	5,875	—	—	—	42	
424 WL	HARRY MASSER	1125	I	2696	582	5875	—	5,875	—	5,875	—	—	—	42	
425 WL	MARY MASSER	1126	I	1862	576	5,875	—	5,875	—	5,875	—	—	—	42	
426 WL	H.L. MAYNE	1019	I	1003	94	5212.5	—	5,212.5	—	5,212.5	—	—	—	41	
427 WL	CHERYL EILEEN BOWEN	1020	I	2389	501	5212.5	—	5,212.5	—	5,212.5	—	—	—	41	
428 WL	BAYARD C. & KATHERINE C. TEMPLE	1021	I	1002	813	5212.5	—	5,212.5	—	5,212.5	—	—	—	41	
429 WL	GERTRUDE C. SCHMITT	1[illegible] [illegible]	I	939	620	10,425	—	10,425	—	10,425	—	—	—	41	
430 WL	CARL PHILLIPS	1024	I	2229	577	5875	—	5,875	—	5,875	YES	—	—	45	
431 WL	NORMAN V. REED & JANET L. REED	1025	I	1618	935	5875	—	5,875	—	5,875	YES	—	—	45	
432 WL	MARY MASSER	1026	I	1862	590	5,875	—	5,875	—	5,875	—	—	—	45	
433 WL	HARRY MASSER	1027	I	1585	343	5875	—	5,875	—	5,875	—	—	—	45	
434 WL	S.P. HABAN	1028	I	1221	304	5875	—	5,875	—	5,875	—	—	—	45	

REV.	DATE	DESCRIPTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FRA-GL-20.89

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

NO. OF PROPERTIES---
NO. OF STRUCTURE PARCELS---

PARCEL NO.	OWNER	AUD.'S PARCEL No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
435 WL	VIRGINIA A. REIMOLD	1029	I	1091	584	5,875	---	5,875	---	5,875	---	---	---	45	
436 WL	S. ROBERT DAVIS & JOE P. COAKLEY	1030	I	2622	359	5,875	---	5,875	---	5,875	---	---	---	45	
437 WL	GERALDINE E. DETWILER	1031	I	2268	472	5,875	---	5,875	---	5,875	---	---	---	45	
438 WL	BOONE & BETTY M. PREECE	1032	I	1879	41	5,875	---	5,875	---	5,875	---	---	---	45	Previously known as 98A WL
439 WL	ELIZABETH D. KELLER	1033	I	1002	601	5,875	3,837.5	5,875	3,837.5	2,037.5	---	---	---	45	Previously known as 98 WL
440 WL	REUBEN C. BAYS & OLLIE G. BAYS	1034	I	924	200	5,875	---	5,875	---	5,875	---	---	---	45	Previously known as 100 WL
441 WL	MARGARET REDD	1037 2661	I	1350	496	5,875	---	5,875	---	5,875	---	---	---	46	Previously known as 104 WL
442 WL	HARRY MASSER	1038	I	1902	498	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
443 WL	MARGARET REDD	1039	I	1852	35	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
444 WL	HARRY MASSER	2496	I	1684	461	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
445 WL	ROGER FRANKLIN SAVAGE	2555 1030	I	1750	602	5,875	---	5,875	---	5,875	---	---	---	46	
446 WL	GEORGE W. MASON	2482	I	1981	278	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
447 WL	MARY MASSER	1041	I	1862	598	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
448 WL	CARL H. REISELT, JR.	2468	I	1423	115	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
449 WL	ANDREW J. WHITE, JR. TRUSTEE	1042	I	1554	67	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
450 WL	SOL & REVA SHAMAN	2463	I	1506	631	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
451 WL	HELENE M. SLITER	1043	I	2323	144	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
452 WL	ROCENA C. BEISER	2460	I	854	205	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
453 WL	ARTHUR F. & LOUELLA SHOCK	1044	I	858	854	2,937.5	---	2,937.5	---	2,937.5	---	---	---	46	
454 WL	HARRY MASSER	1045	I	1238	515	5,875	---	5,875	---	5,875	---	---	---	46	
455 WL	PING-PAGE ENTERPRIZES, INC.	1046	I	2275	605	5,264	---	5,264	---	5,264	---	---	---	44	
456 WL	PITT L. FITZGERALD	1047	I	1907	176	5,265	---	5,265	---	5,265	---	---	---	46	
457 WL	DAWN DAVIS STRUBLE & ROBERT C. STRUBLE	1048	I	1869	232	5,267	---	5,267	---	5,267	---	---	---	44	
458 WL	HARRY R. PORTER	1049	I	897	237	5,268	---	5,268	---	5,268	---	---	---	44	
459 WL	CLARA E. LIEB	1050	I	1028	52	5,270	---	5,270	---	5,270	---	---	---	46	
460 WL	NANNIE A. CADWALLADER	1051	I	1856	371	5,875	---	5,875	---	5,875	---	---	---	46	
461 WL	GLENN CADWALLADER & GLADYS H. CADWALLADER	1052	I	2333	502	5,875	---	5,875	---	5,875	---	---	---	46	
462 WL	ESTELLA M. DEYO GROVES	1053	I	2419	181	5,875	---	5,875	---	5,875	---	---	---	46	
463 WL	JAMES W. DRAKE & RUTH RILEY DRAKE	1054	I	2525	577	5,875	---	5,875	---	5,875	---	---	---	46	
464 WL	ROBERT H. MONTGOMERY	1055	I	982	445	5,875	---	5,875	---	5,875	---	---	---	46	
465 WL	HARRY MASSER	1056	I	1238	515	5,875	---	5,875	---	5,875	---	---	---	46	
466 WL	HARRY L. TWIGG & EDNA E. TWIGG	1057 1058	I	2378 2365	258 20	11,750	---	11,750	---	11,750	YES	---	---	46	
467 WL	JAMES W. DRAKE & RUTH RILEY DRAKE	1059	I	2325	577	5,875	---	5,875	---	5,875	---	---	---	46	
468 WL	MARY MASSER	1061	I	1862	602	5,875	---	5,875	---	5,875	---	---	---	46	Previously known as 93 WL
469 WL	MARY MASSER	1062 1063	I	1862 2482	600 588	11,750	---	11,750	---	11,750	---	---	---	45	Previously known as 93AWL
470 WL	MARY MASSER	1064 1065	I	1862 1862	598 116	11,750	---	11,750	---	11,750	---	---	---	45	

REV	DATE	DESCRIPTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(10)	

FRANKLIN COUNTY

FRA-62(83) FRA-270-25.39N

LIMITED ACCESS
I-270-5(7)R/W ONLY

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

NO. OF PROPERTIES
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
471 WL	JOYCE A. & MARY V. CAPOCCIA	1068	I	2121	340	5875	—	5,875	—	5,875	—	—	—	45	
472 WL	HARRY MASSER	1069	I	1686	401	5,875	—	5,875	—	5,875	—	—	—	45	
473 WL	CARRIE S. FIOTO	1070	I	915	589	5875	—	5,875	—	5,875	—	—	—	45	
474 WL	CARL PHILLIPS	1071	I	2220	379	5,875	—	5,875	—	5,875	—	—	—	45	
475 WL	ROSE DAY	1072	I	1188	44	5875	—	5,875	—	5,875	—	—	—	45	
476 WL	DEAN C. ISHAM & HAZEL M. ISHAM	2592	I	2185	352	0.135Ac	—	0.135Ac	—	0.135Ac	YES	—	—	71	
477 WL	WESLEY W. HORN & LORETTA V. HORN	1734	I	1687	529	0.171 Ac	—	0.171 Ac	—	0.171Ac	YES	—	—	71	
478 WL	COZETTA L. LEACH	1621	I	2078	583	0.171 Ac	—	0.171 Ac	—	0.171Ac	YES	—	—	71	
479 WL	JENNINGS H. STEVENS & ROSA H. STEVENS	1636, 3078	I	1000 ETEO	313 98	*1.821Ac	—	1.221 Ac	—	1221 Ac	YES	—	—	69 & 71	*1.189 Ac (Computed)
480 WL	ALLEN BLACKBURN	965	I	1353	185	5212.5	—	5,212.5	—	5,212.5	—	—	—	47	
481 WL	MARY MASSER	966	I	1862	618	5212.5	—	5,212.5	—	5,212.5	—	—	—	47	
482 WL	JAMES F. KILLILEA & MARGARET C. KILLILEA	967	I	983	63	5212.5	—	5,212.5	—	5,212.5	—	—	—	47	
483 WL	LIZZIE B. STOOKEY	968	I	881 1102	417 193	5212.5	—	5,212.5	—	5,212.5	—	—	—	47	
484 WL	JOSEPH A. ZANG	969	I	915	113	5,212.5	—	5,212.5	—	5,212.5	—	—	—	47	
485 WL	ROBERT L. NEFF	970	I	1062	54	5875	—	5,875	—	5,875	—	—	—	48	
486 WL	ROBERT O. BLACKWOOD	971	I	1241	138	5875	—	5,875	—	5,875	—	—	—	48	
487 WL	ARTHUR BENNETT	972	I	1712	253	5,875	—	5,875	—	5,875	YES	—	—	48	
488 WL	GRANVILLE M. MONSON	973	I	914	91	5875	—	5,875	—	5,875	—	—	—	48	
489 WL	MARY MASSER	977	I	1862	616	5875	—	5,875	—	5,875	—	—	—	48	Previously Known as 88WL
490 WL	HARRY MASSER	978	I	1238	345	5,875	—	5,875	—	5,875	—	—	—	48	Previously Known as 89WL
491 WL	MARTHA A. SHAW	981	I	2381	421	5875	—	5,875	—	5,875	—	—	—	49	
492 WL	GEORGE BRIGHT	982	I	1855 2729	306 317	5,875	—	5,875	—	5,875	YES	—	—	49	
493 WL	WILBUR P. TOBIAS & GALE TOBIAS	983	I	2032	99	5875	—	5,875	—	5,875	YES	—	—	49	
494 WL	MELVIN O. TOBIAS SR & PATRICIA TOBIAS	984	I	2588	125	5,875	—	5,875	—	5,875	—	—	—	49	
495 WL	STEVE BRIGHT	985	I	1589	148	5875	—	5,875	—	5,875	YES	—	—	49	
496 WL	CHAS. E. & GERTRUDE OLEEM	986	I	859	388	5,875	—	5,875	—	5,875	—	—	—	49	
497 WL	MARY E. WEBBER	P87, 988 2490	I	1915	283 221	11,750	—	11,750	—	11,750	—	—	—	49	
498 WL	GRACE M. NEWMAN	989	I	874	280	5875	—	5,875	—	5875	—	—	—	49	
499 WL	PAUL S. CULLEN	990	I	926	585	5,875	—	5,875	—	5,875	YES	—	—	49	
500 WL	CHARLES R. & MARGARET WILSON	991	I	874	269	5,875	—	5,875	—	5,875	—	—	—	49	
501 WL	MARTHA U. BROWN	992 993	I	1068	335	10,588	—	10,588	—	10,588	—	—	—	50	
502 WL	MARY MASSER	994	I	1862	548	5277	—	5,277	—	5277	—	—	—	50	
503 WL	H.L. MAYNE	995	I	1220	290	5,279	—	5,279	—	5,279	—	—	—	50	
504 WL	MARY MASSER	996	I	1862	588	5,280	—	5,280	—	5,280	—	—	—	50	
505 WL	ETHEL SHELDON, ET AL	997	I	1121	161	5875	—	5,875	—	5,875	—	—	—	49	
506 WL	HARLEY W. LANGLEY	998	I	2935	193	5,875	—	5,875	—	5,875	YES	—	—	49	

REV.	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FRA-62-20.89

REG. DIV.	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

FRANKLIN COUNTY
FRA—270—25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

NO. OF PROPERTIES—
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
507 WL	MARY MASSER	999	I	1862	538	5875	—	5,875	—	5,875	—	—	—	49	
508 WL	HARRY A. CARRELL & LEATHA I. CARRELL	1000	I	2790	158	5,875	—	5,875	—	5,875	—	—	—	49	
509 WL	LORENA PATTON HEATON	1001; 1002 1003	I	917	334	17,625	—	17,625	—	17,625	—	—	—	49	
510 WL	ANDREW J. WHITE JR., TRUSTEE	1004	I	1858	67	2,937.5	—	2,937.5	—	2,937.5	—	—	—	49	
511 WL	MRS. A.E. ROGERSON	E385	I	840	347	2,937.5	—	2,937.5	—	2,937.5	—	—	—	49	
512 WL	HARRY MASSER	1005	I	1595	343	5875	—	5,875	—	5,875	—	—	—	49	
513 WL	ALPH M. & ETHEL A. VAN FOSSAN	1006	I	1068	71	5875	—	5,875	—	5,875	—	—	—	49	
514 WL	CLARA CARPENTER	1007	I	720 Code	705 784	5875	—	5,875	—	5,875	—	—	—	49	
515 WL	ANTOINETTE "LE DONNA	1008	I	1027	213	5875	—	5,875	—	5,875	—	—	—	48	
516 WL	HOWARD U. WALKER & CLAUDIA S. WALKER	1009	I	2349	602	5875	—	5,875	—	5,875	YES	—	—	48	
517 WL	MARY MASSER	1010	I	1862	604	5875	—	5,875	—	5,875	—	—	—	48	Previously known as 81 WL
518 WL	MARY MASSER	1012	I	1862	606	5,875	—	5,875	—	5,875	—	—	—	48	Previously known as 83 WL
519 WL	HARRY MASSER	1013; 1014 1015	I	1023 Code	488 512	17,625	—	17,625	—	17,625	—	—	—	48	Previously known as 84 WL
520 WL	ALLEN BLACKBURN & ESTARAH BLACKBURN	1016	I	2017	486	5875	602	5,875	602	5,273	YES	—	—	48	Previously known as 85 WL
521 WL	ALLEN BLACKBURN	1017	I	1406	67	5875	—	5,875	—	5,875	YES	—	—	48	
522 WL	ALLEN & ESTARAH BLACKBURN	1018	I	1899	210	5875	—	5,875	—	5,875	YES	—	—	48	
523 WL	STRAUCH INC.	1642	I	2667	548	0.171 Ac	—	0.171 Ac	—	0.171 Ac	YES	—	—	71	
524 WL	ADAH J. LONG	911	I	1237 Code 243	268 572	5212.5	—	5,212.5	—	5,212.5	—	—	—	47	Previously known as 72 WL
525 WL	WILLIAM O. KORBEL & VONNIE M. KORBEL	912 1/2	I	2064	306	10,425	391	10,425	391	10,034	YES	—	—	47	Previously known as 73 WL
526 WL	ERNEST S. PREECE & MARGARET PREECE	912 1/2	I	1905	375	10,425	—	10,425	—	10,425	YES	—	—	47	
527 WL	MARY MASSER	910	I	1862	608	5,875	—	5,875	—	5,875	—	—	—	51	Previously known as 76 WL
528 WL	HARRY MASSER	912	I	1238	515	5875	—	5,875	—	5,875	—	—	—	51	Previously known as 77 WL
529 WL	RICHARD & LOIS EVANS	922	I			5875	1,170	5,875	1170	4,705	—	—	—	51	Previously known as 80 WL
530 WL	GEORGE M. & CATHERINE ATKINS	923	I	915	614	5875	—	5,875	—	5,875	—	—	—	51	
531 WL	MILDRED M. DALE	924	I	1860	310	5875	—	5,875	—	5,875	—	—	—	51	
532 WL	CARL H. REISELT, JR.	925	I	1423	116	5,875	—	5,875	—	5,875	—	—	—	51	
533 WL	MARY MASSER	926	I	1862	592	5875	—	5,875	—	5,875	—	—	—	51	
534 WL	JOHN H. & CLYDE M. SPENCER	927	I	915	296	5,875	—	5,875	—	5,875	—	—	—	52	
535 WL	LEONA STICKNEY	928	I	1161	310	5875	—	5,875	—	5,875	YES	—	—	52	
536 WL	M. GLADYS EMERSON	929	I	2342	7 13	5,875	—	5,875	—	5,875	—	—	—	52	
537 WL	MARY MASSER	930 931	I	1862	610 616	11,750	—	11,750	—	11,750	—	—	—	52	
538 WL	MARJORIE PEARL RADER	932	I	922	119	5875	—	5,875	—	5875	—	—	—	52	
539 WL	HARRY MASSER	933	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	52	
540 WL	MARY MASSER	934	I	2554	385	5875	—	5,875	—	5,875	—	—	—	52	
541 WL	BLANCHE MARIE MCMURRAY	935	I	2328	347	5875	—	5,875	—	5,875	—	—	—	52	
542 WL	EDNA LYLE	936 937	I	963	331	11,750	—	11,750	—	11,750	—	—	—	52	

REV	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PRO. REG. DIVISION	STATE	PROJECT	
2	OHIO	I-270-3(8)	

FRANKLIN COUNTY
FRA-270-28.39N
LIMITED ACCESS
I-270-3(7)R/W ONLY

FRA-GE-270.83 A

NO. OF PROPERTIES--
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
543 WL	LAURIE LYLE & EDNA LYLE	938	I	1106	634	Sq. Ft. 5,283	Sq. Ft. —	Sq. Ft. 5,283	Sq. Ft. —	Sq. Ft. 5,283	—	—	—	50	
544 WL	GROVER C. & MARY C. SIMMONS	939	I	873	428	5,285	—	5,285	—	5,285	—	—	—	50	
545 WL	HARRY MASSER	940	I	1838	515	5,287	—	5,287	—	5,287	—	—	—	50	
546 WL	LOTTIE B. ALBERY	941	I	1351 DOT	684 C.S.T.	5288.5	—	5288.5	—	5,288.5	—	—	—	50	
547 WL	HARRY MASSER	942	I	1238	515	5,290	—	5,290	—	5,290	—	—	—	50	
548 WL	EDWARD & FRANCES BONLMAN	943	I	854	198	5,875	—	5,875	—	5,875	—	—	—	52	
549 WL	LEONA B. BINKLEY	944	I	859 L&L	100 188	5,875	—	5,875	—	5,875	—	—	—	52	
550 WL	ALBERT & CARRIE HARSH	945	I	850	303	5,875	—	5,875	—	5,875	—	—	—	52	
551 WL	JOHN & VIOLA BOBO	946	I	858	990	5,875	—	5,875	—	5,875	—	—	—	52	
552 WL	ROBERT & BESSIE LITTLE	947	I	1039	664	5,875	—	5,875	—	5,875	—	—	—	52	
553 WL	NELLIE GRIFFITH	948	I	2037	172	5,875	—	5,875	—	5,875	—	—	—	52	
554 WL	ORAZIO RICCI	949	I	1003	585	5,875	—	5,875	—	5,875	—	—	—	52	
555 WL	HAZEL NINGENFELSER	950	I	1264 1265	183 188	5,875	—	5,875	—	5,875	—	—	—	52	
556 WL	E.T. & MARY HUGGINS	2477	I	859	105	2,937.5	—	2,937.5	—	2,937.5	—	—	—	52	
557 WL	EDGAR R. JOHNSON, ET AL	951	I	2206	275	2,937.5	—	2,937.5	—	2,937.5	—	—	—	52	
558 WL	HARRY MASSER	952	I	1238	515	2,937.5	—	2,937.5	—	2,937.5	—	—	—	52	
559 WL	H. L. MAYNE	2471	I	1220	288	2,937.5	—	2,937.5	—	2,937.5	YES	—	—	52	
560 WL	MARY E. WEBBER	953	I	1915	305 307	5,875	—	5,875	—	5,875	YES	—	—	52	
561 WL	MARY CURTIS	954	I	1736	871	5,875	—	5,875	—	5,875	—	—	—	51	
562 WL	ANN VETTER WONDRAK	955	I	2392	406	5,875	—	5,875	—	5,875	—	—	—	51	
563 WL	MARY MASSER	956	I	1862	614	5,875	—	5,875	—	5,875	—	—	—	51	
564 WL	JACOB ARTHUR WELLER & JACQUELINE A. HOGAN	957	I	2492 2491	224 210	5,875	—	5,875	—	5,875	—	—	—	51	
565 WL	JOSEPH MOATS & FRANCES P. MOATS	958	I	1158	639	5,875	—	5,875	—	5,875	—	—	—	51	
566 WL	ALFRED H. WILSON	959	I	914	323	5,875	—	5,875	—	5,875	—	—	—	51	
567 WL	CALEB V. BINKLEY	960	I	965	50	5,875	—	5,875	—	5,875	—	—	—	51	Previously known as 69 WL
568 WL	ERNEST PREECE & MARGARET PREECE	961, 962 Pt 3	I	1824 1824	601 602	17,625	—	17,625	—	17,625	YES	—	—	51	Previously known as 70 WL
569 WL	KENNETH E. SOWERS & INEZ SOWERS	847	I	2563	405	0.204 Ac.	—	0.045 Ac	—	0.045 Ac	—	—	0.159 Ac	71	
570	FLORENCE M. OAGUE	1681	I	2392	356	0.957 Ac.								71	Not Required
571	AIMEE M. HOLDRIETH	57,1396	I	2563 2563	398 403	1.00 Ac.								71	Not Required
572 WL	HARRY MASSER	20	I	1238	515	3836	—	3,836	—	3,836	—	—	—	53	Previously known as 58A WL
573 WL	JOHN C. MILLER & SYLVIA L. MILLER	888, 889 890	I	2193, 1197 1201	622, 624 627	15,435	5,929	15,435	5,929	3506	YES	—	—	54	Previously known as 60, 60A, 60B WL
574 WL	KINTON GOBLE	891	I	1225 1158	228 632	5,145	—	5,145	—	3,145	YES	—	—	54	
575 WL	STEVE B. & JULIA J. BRIGHT	892 892	I	1838	631	10,290	—	10,290	—	10,290	YES	—	—	54	
576 WL	MARY WEBBER	893 893	I	1149	281	10,290	—	10,290	—	10,290	YES	—	—	54	
577 WL	MARY E. WEBBER	894	I	1365	183	5,145	—	5,145	—	5,145	—	—	—	54	
578 WL	MARY E. WEBBER	895 896	I	1915 2110	307, 309 83	10,290	—	10,290	—	10,290	YES	—	—	55	

REV.	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-5(7)R/W

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

FRA-62-20.83

NO. OF PROPERTIES-
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL No.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
579 WL	OLIN & MABEL BAILEY	899	I	981	199	Sq. Ft. 5,145	Sq. Ft.	Sq. Ft. 5,145	Sq. Ft.	Sq. Ft. 5,145				55	
580 WL	DOMINIC SALIMBENI	900	I	923	472	5,145	—	5,145	—	5,145	—	—	—	55	
581 WL	CARTER CHAFFIN & ORETHA CHAFFIN	901	I	8018	187	5,145	—	5,145	—	5,145	—	—	—	55	
582 WL	MARY E. WEBBER	902	I	1915	559 552	2,572.5	—	2,572.5	—	2,572.5	—	—	—	55	
583 WL	MARTHA A. SHAW	2486	I	2581	421	2,572.5	—	2,572.5	—	2,572.5	—	—	—	55	
584 WL	EDMUND WREN	2478	I	853	103	2,572.5	—	2,572.5	—	2,572.5	—	—	—	55	
585 WL	MARTHA A. SHAW	903	I	2581	421	2572.5	—	2,572.5	—	2,572.5	—	—	—	55	
586 WL	HARRY MASSER	904	I	1238	515	5,145	—	5,145	—	5,145	—	—	—	55	
587 WL	MARTHA A. SHAW	905	I	2581	421	2572.5	—	2,572.5	—	2,572.5	—	—	—	55	
588 WL	C.L. BROOKS	2475	I	1322	500	2572.5	—	2,572.5	—	2,572.5	—	—	—	55	
589 WL	BYRON & JOE ANNE ENSLEY	908	I	2183	68	10290	—	10,290	—	10,290	YES	—	—	55	
590 WL	FRANCIS A. BROWN	268 910	I	2287	218 360	11,634	—	11,634	—	11,634	—	—	—	56	
591 WL	STEPHEN YOVAN		I	2887	576	1.81 Ac	—	0.012 Ac	—	0.012 Ac	—	—	1.813 Ac	65&66	
591 WD			I					0.045 Ac	—	0.045 Ac	—	—	—	65&66	
591 T			I					0.002 Ac	—	0.002 Ac	—	—	—	65&66	
592 WL	JOHN C. MILLER	943	I	2500	493	5.875	—	5.875	—	5.875	—	—	—	54	To Build Access Road Previously Known as 66 WL
593 WL	JOHN C. & SYLVIA L. MILLER	944	I	2494	590	5.873	—	5,875	—	5,875	YES	—	—	54	
594 WL	KINTON GOBLE	58	I	1238 2138	515 582	12,431.5	—	12,431.5	—	12,431.5	—	—	—	54	
595 WL	D.L. GEREN & E.L. GEREN	880	I	1858	629	2.013 Ac	—	0.0083 Ac	—	0.0083 Ac	—	—	1.965 Ac	72	
596 WL	HOWARD E. BURR	787	I	2420	68	5,212.5	—	5,212.5	—	5,212.5	—	—	—	53	
597 WL	RUTH M. MENNON	748	I	2201	389	5,212.5	705	5,812.5	705	45075	—	—	—	53	Previously Known as 61A
598 WL	HARRY MASSER	749	I	1238	515	5,212.5	—	5,212.5	—	5,212.5	—	—	—	53	Previously Known as 61 WL
599 WL	EDWARD A. LOVINER, ET AL	751	I	1864	121	5,212.5	—	5,212.5	—	5,212.5	—	—	—	53	Previously Known as 59 WL
600 WL	HARRY MASSER	752	I	1238	515	5.875	—	5,875	—	5,875	—	—	—	57	
601 WL	JOHN E. & LOUISE BECKWITH	753	I	999	574	5,875	—	5,875	—	5,875	—	—	—	57	
602 WL	HARRY MASSER	754	I	1238	515	5,875	—	5,875	—	5,875	—	—	—	57	
603 WL	CHARLES & KATHRYN BRISTER	955 956	I	2069	508	11,750	—	11,750	—	11,750	YES	—	—	57	
604 WL	ZELLA E. MURRAY	757	I	2341	564	8,237	—	8,237	—	8,237	YES	—	—	57	
605 WL	CARL & BLANCHE KLEIN	758 759	I	883	609	9042	—	9,042	—	9,042	—	—	—	57	
606 WL	CHARLES & KATHRYN BRISTER	960 961	I	1953	200	11,750	—	11,750	—	11,750	YES	—	—	57	
607 WL	ESTHER L. BODELL	762	I	1287	504	5,875	—	5,875	—	5,875	—	—	—	57	
608 WL	MARVIN E. DECKARD	963 964	I	2418	63	11,750	—	11,750	—	11,750	—	—	—	57	
609 WL	JOHN C. & RUTH V. TOBIN	64	I	2661	138	0.969 Ac.	—	0.969 Ac	—	0.969 Ac	YES	—	—	54,55,57	
610 WL	JOHN L. MURDAY & MARY MURDAY	3060	I	2014	515	31,432	—	31,432	—	31,432	YES	—	—	55	
611 WL	JERRY O. ZIMMER & FRANCES E. ZIMMER	3061 3062	I	1936 1936	595 57	41,275	—	41,275	—	41,275	YES	—	—	55	
612 WL	PRESTON G. CURTIS	3063	I	1897 1895	452 570	20,060	—	20,060	—	20,060	YES	—	—	55,56	
613 WL	ERNEST L. FLANNIGAN & LOUISE G. FLANNIGAN	3064	I	1894	17	25012	—	25012	—	25012	YES	—	—	56	
614 WL	JACK R. PARRISH & MARY L. PARRISH	3055	I	1914	207	38,342	—	38,342	—	38,342	YES	—	—	56,64	

REV	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-5(10)

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62-20.83

NO. OF PROPERTIES
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
615 WL	FEMIE BLOSSER	3056	I	2092	39	20,763	—	20,763	—	20,763	YES	—	—	36,38	
616 WL	ORIN R. MATHEWS & HELEN L. MATHEWS	3057	I	1847	654	20,918	—	20,918	—	20,918	YES	—	—	58	
617 WL	WILLIAM J. BRISTER & MARY L. BRISTER	3058	I	1923	407	20,006	—	20,006	—	20,006	YES	—	—	58	
618 WL	ROBERT A. ZIEGLE & CARRIE F. ZIEGLE	3059	I	2380	558	27,102	—	27,102	—	27,102	YES	—	—	33,58	
619 WL	RALPH GEORGE BURWELL & HELEN MILDRED BURWELL		I	2153	223	0.222 Ac.	—	0.222 Ac.	—	0.222 Ac.	YES	—	—	53	
620 WL	EVA M. WALKER	737	I	1907	152	3,809	—	3,809	—	3,809	—	—	—	53	
621 WL	ENIO R BERNARDO & MARY D. BERNARDO	735 736	I	2586	653	7,618	—	7,618	—	7,618	—	—	—	53	
622 WD	DEAN CHAFLAIN	683	I	2690	663	5,175	—	5,175	—	5,175	—	—	—	47	
623 WD	ORLIE B. SHANTON & MAE E. SHANTON	682	I	945	279	5,175	—	5,175	—	5,175	—	—	—	47	
624 WD	HARRY MASSER	681	I	1238	515	5,175	—	5,175	—	5,175	—	—	—	47	
625 WD	ERNEST PREECE & MARGARET PREECE	626 625	I	2518	632	10,350	—	10,350	—	10,350	YES	—	—	47	
626 WD	EUGENE F. & BETTY I. BREWER	625	I	1771	681	5,175	—	5,175	—	5,175	—	—	—	47	
627 WD	HARRY MASSER	624	I	1238	515	5,175	—	5,175	—	5,175	—	—	—	47	
628 WD	HELEN HOLDSWORTH	623	I	2071	588	5,175	—	5,175	—	5,175	—	—	—	47	
629 WD	HARRY MASSER	622	I	1238	515	5,175	—	5,175	—	5,175	—	—	—	47	
630 WD	LILLIAN ROBSON	621	I	1394	285	5,175	—	5,175	—	5,175	—	—	—	47	
631 WD	GEORGE DAVENPORT & CATHERINE DAVENPORT	567	I	923	103	5,175	—	5,175	—	5,175	—	—	—	41	
632 WD	ROSE FINTA	563 564	I	2551	306	10,350	—	10,350	—	10,350	—	—	—	41	
633 WD	STANLEY DAVIS	564	I	1603	225	5,175	—	5,175	—	5,175	—	—	—	41	
634 WD	DOROTHY F. & FRED J. DUERLER	563	I	2576	671	5,175	—	5,175	—	5,175	—	—	—	41	
635 WD	GERTRUDE C. SCHMITT	309	I	2363	685	5,175	—	5,175	—	5,175	—	—	—	41	
636 WD	MAURICE W. MARKINS & MARY E. MARKINS	307 308	I	1786	625	10,350	—	10,350	—	10,350	YES	—	—	41	
637 WD	FRANK & ESTELLE MULDOON	306	I	892	353	5,175	—	5,175	—	5,175	—	—	—	41	
638 WD	DOROTHY L. GABEL	305	I	2184	57	5,175	—	5,175	—	5,175	—	—	—	41	
639	D. COLASANTE	451	I	841	111	3,173								35	Not Required
640	BERNARD L. BRINK, ET AL	450	I	2857	374	5,175								35	Not Required
641 T	LEROY C. WALKER	734	I	2509	655	5,155		395		395				47,53	To Construct Drive
642 WL	VEDA JUSTICE	3157	I	2846	161	0.433 Ac.	—	0.433 Ac.	—	0.433 Ac.	YES	—	—	52,69	Previously Known as 53 WL
643 WL	WALTER H. CULBERTSON	1656	I	1432	263	0.180 Ac.	—	0.180 Ac.	—	0.180 Ac.	YES			52,69	
644 WL	EDWARD CONLEY & MARIE CONLEY	2640	I	2027	195	0.287 Ac.	—	0.287 Ac.	—	0.287 Ac.	YES	—	—	71	
645 WL	HENRY W. NEWMAN & MARY DONNA NEWMAN	2600	U	1553	276	*8.828 Ac.	0.238 Ac.	1.060 Ac.	—	1.060 Ac.	—	1.803 Ac.	2.300 Ac.	71	* Sold 3.03 Acres Net = 5.798 Ac.
645A WL		3182	I	1350	330			0.387 Ac.	—	0.387 Ac.	—			69	Previously Known as 52 WL
646 WL	JOHN CASIAS & PHYLLIS N. CASIAS	19	I	1450	343	*17.716 Ac.	0.126 Ac.	1.611 Ac.	—	1.611 Ac.	—	7.509 Ac.	3.679 Ac.	71	* Sold 4.63 Acres Net = 13.086 Ac.
646A WL		19	U	1430	356			0.101 Ac.	—	0.101 Ac.	—			71	Previously Known as 57 WL
647 WL	HARRY MASSER	684 685	I	1238	515	10,425		10,425		10,425				59	
648 WL	LEE H. KITSON	768	I	939	145	5,212.5	—	5,212.5	—	5,212.5	—	—	—	59	
649 WL	HARRY MASSER	769	I	1238	515	5,212.5	—	5,212.5	—	5,212.5	—	—	—	59	
650 WL	HADLEY E. & KATHRYN E. MILLER	770	I	906	107	5,875	—	5,875	—	5,875	—	—	—	59	

REV.	DATE	DESCRIPTION

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	FRA-[illegible]	

FRA-62-20.83
FRANKLIN COUNTY
FRA--270-25.39N
LIMITED ACCESS
I-270-8(7) R/W ONLY

NO. OF PROPERTIES
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUD'S PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.					
651 WL	HARRY MASSER	771	I	1838	513	5875	—	5875	—	5875	—	—	—	59	
652 WL	JOHN R. & LUSILLA KOONTZ	772	I	854	410	5873	—	5875	—	5875	—	—	—	59	
653 WD	HARRY MASSER	773, 774, 775, 776	I	1838	513	20.155	—	20.155	—	20.155	—	—	—	59	
654 WL	JOHN F. WEEKLEY & BEATRICE M. WEEKLEY	777	I	1823 1862	773	*6.432 Ac.	0.094 Ac.	3.891 Ac.	—	3.891 Ac.	—	—	2.297 Ac.	55, 57, 58, 60	* Calculated
654 WD	JOHN F. WEEKLEY & BEATRICE M. WEEKLEY		I					0.550 Ac.	—	0.550 Ac.	—				
654A WD	DENNIS ROE & SALLY ROE	3108	I	1918	16	0.870 Ac.	0.093 Ac.	0.168 Ac.	0.083 Ac.	0.075 Ac.	—	0.702 Ac.	—	77	
655 WL	BRUCE W. ROE & DONNA J. ROE	77	I	2466	247	1.685 Ac.	0.078 Ac.	0.603 Ac.		0.603 Ac.	—	—	1.008 Ac.	58, 60	
655 WD	BRUCE W. ROE & DONNA J. ROE		I					0.160 Ac.	0.078 Ac.	0.082 Ac.	—			58, 60	
655 MDI								0.443 Ac.	—	0.189 Ac.	—			58, 60	
656 WL	DUANE G. STEVENS & DOROTHY E. STEVENS	2632	I	2358	592	1.695 Ac.	0.180 Ac.	0.210 Ac.	—	0.210 Ac.	YES	—	0.723 Ac.	58, 60	
656 WD	DUANE G. STEVENS & DOROTHY E. STEVENS		I					0.702 Ac.	0.180 Ac.	0.522 Ac.	—			60, 61, 77	
656 T								0.032 Ac.	—	0.032 Ac.	—			77	To Construct a Drive
657 WL	FORREST L. DUNLAP & DORA E. DUNLAP	70	I	1880	209	2.334 Ac.	0.090 Ac.	2.334 Ac.	0.090 Ac.	2.244 Ac.	YES	—	—	58, 60, 61	
658 WL	LEO PAYNE	866	I	2685	100	0.853 Ac.	0.080 Ac.	0.853 Ac.	0.080 Ac.	0.773 Ac.	YES	—	—	56, 58, 61	
659 WL	JOHN F. WYNN & FAYE I. WYNN	2608	I	1792	426	0.682 Ac.	—	0.682 Ac.	—	0.682 Ac.	YES	—	—	56, 61	
660 WL	FRED E. DAWSON & HAZEL M. DAWSON	2337 2338	I	727 2523	92 141	1.238 Ac.	—	1.238 Ac.	—	1.238 Ac.	YES	—	—	3461/3464.65	
661 WL	ERNEST R. RUCK & PATRICIA L. RUCK	2648	I	2083	528	1.680 Ac.	0.063 Ac.	0.205 Ac.	—	0.205 Ac.	—	1.812 Ac.	—	32, 38	
662 WL	D. M. & JANET YAGNONE	877	I	2109	314	1.587 Ac.	—	1.587 Ac.	—	1.587 Ac.	YES	—	—	38, 66	Previously Known as 139 WL
663 WL	JOHN Y. SCHWAB & LAURAMAE SCHWAB	986	I	2132	466	2.055 Ac.	—	0.256 Ac.	—	0.256 Ac.	—	1.799 Ac.	—	68	
664 WL	CLYDE S. FERREE & HELEN M. FERREE	1078	I	2274	507	2.055 Ac.	—	2.055 Ac.	—	2.055 Ac.	—	—	—	66, 67, 68	Previously Known as 134 WL
665 WL	ELNORA S. DEWERSE	827	I	2278	534	*2.055 Ac.	—	0.219 Ac.	—	0.219 Ac.	—	1.776 Ac.	—	68	* Sold 0.060 Ac. NET - 1.893 Ac. Previously Known As 136 WL
666 WL	DELMAN BUELL & MARTHA M. BUELL	1046	I	1903	129	2.013 Ac.	—	2.013 Ac.	—	2.013 Ac.	YES	—	—	66, 67, 68	Previously Known as 135 WL
667 WL	CLIFFORD L. CHAPMAN	827	I	1578	410	2.055 Ac.	—	0.318 Ac.	—	0.318 Ac.	—	1.737 Ac.	—	68	Previously Known as 137 WL
668 WL	ELNORA J. FETCH	866	I	1896	105	2.013 Ac.	—	1.116 Ac.	—	1.116 Ac.	YES	—	0.897 Ac.	67, 68	Previously Known as 138 WL
668-T	" "							0.004 Ac.	—	0.004 Ac.	—			66	To Construct Turn-Around
669 WL	JAMES A. WEIDNER	978	I	2976	419	*2.055 Ac.	—	0.028 Ac.	—	0.028 Ac.	—	1.667 Ac.	—	67, 68, 72	* Sold 0.360 Ac. NET - 1.695 Ac. Previously Known As 140 WL
670 WL	DONALD HUBBARD	1003	I	NO22	2981	*2.013 Ac.	—	0.082 Ac.	—	0.082 Ac.	—	—	1.241 Ac.	67, 68, 72	* Sold 0.290 Ac. NET - 1.723 Ac. Previously Known As 139 WL
671 WL	THE BELLWOOD REALTY CO.	899	I	2490	107	2.055 Ac.	—	0.455 Ac.	—	0.455 Ac.	—	1.600 Ac.	—	72	Previously Known as 141 WL
672 WL	WILLIAM CRYAN	794	I			2.013 Ac.	—	0.491 Ac.	—	0.491 Ac.		—	1.522 Ac.	67, 72	Previously Known as 142 WL
673 WL	ROBERT N. WEIDNER & MARILYNN F. WEIDNER	1069	I	2065	402	2.055 Ac.	—	0.522 Ac.	—	0.522 Ac.	—	1.533 Ac.	—	72	Previously Known as 144 WL
674 WL	JUANITA BAKER	2638	I	2851	96	2.013 Ac.	—	0.299 Ac.	—	0.299 Ac.		—	1.714 Ac.	72	Previously Known as 143 WL
675 WL	LORRAINE C. WEIDNER	862, 972	I	2337 2387	592 82	6.165 Ac.	—	1.967 Ac.	—	1.967 Ac.	—	4.198 Ac.	—	72	Previously Known as 145 & 146 WL
676 WL	RICHARD R. & RUTH ELLA GIBBONS	990	I	2345	616	*2.013 Ac.	—	0.186 Ac.	—	0.186 Ac.		—	1.827 Ac.	72	Previously Known as 136 WL
677 WL	WH MINUTH & GLADYS R. MINUTH		I	1898 1876	287 522	1.67 Ac.	—	0.905 Ac.	—	0.905 Ac.	Yes	0.565 Ac.	—	65, 66	
677 T	" "							0.016 Ac.		0.016 Ac.				65, 66	To Construct a Drive
678 WL	LOREN B. CANADA & MARJORIE F. CANADA	974	I	2506	618	*2.013 Ac.	—	0.109 Ac.	—	0.109 Ac.	—	—	1.894 Ac.	72	* Sold 0.010 Ac. NET - 2.003 Ac. Previously Known As 147 WL
679 WL	JOHN W. PECK & MARY LEE PECK		I	2701	510	1.770 Ac.	—	1.770 Ac.	—	1.770 Ac.	YES	—	—	42, 50, 65, 66	
680 WL	ESTHER M. SCHWAB	1078 1082	I	2298	536, 539	5.98 Ac.	—	4.535 Ac.	—	4.535 Ac.	YES	1.445 Ac.	—	56, 63, 64	
680 T								0.079 Ac.	—	0.079 Ac.	—			66	To Construct Service Road
681 WL	HARRY MASSER	777	I	1838	513	5622	—	5622	—	5622	—	—	—	59	
682 WL	SAM F. & ETHEL L. HATTON	779	I	840	285	5875	—	5875	—	5875	—	—	—	59	
683 WL	HARRY MASSER	778 780	I	1837	135	11750	—	11750	—	11750	—	—	—	59	
684 WL	OTTO E. & IRENE BERGER	781	I	959	76	5875	—	5875	—	5875	—	—	—	59	

REV.	DATE	DESCRIPTION
	3-10-70	NEW OWNER PARCEL 654

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(10)	

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

NO. OF PROPERTIES
NO. OF STRUCTURE PARCELS

PARCEL NO.	OWNER	AUDITORS PARCEL NO.	TYPE FUND	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	TOTAL TAKE	P.R.O. IN TAKE	NET TAKE LAND	NET TAKE BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	REMARKS
						50 FT	50 FT	50 FT	50 FT	50 FT		50 FT	50 FT		
685 WL	ALBERT KOERNER	782	I	1286	72	5875	—	5875	—	5875	—	—	—	59	
686 WL	EMMA McCORMICK	783	I	1514	525	5875	—	5875	—	5875	—	—	—	59	
687 WL	ISHMAEL R. BURTNETT	785	I	1696	53	5212.5	—	5212.5	—	5212.5	—	—	—	59	
688 WL	MARY K. HARTLEY	786,787,788	I	2679	203	15,637.5	—	15,637.5	—	15,637.5	YES	—	—	62	
689 WL	GEORGE K. CHIRAKIS	789		945	186	5212.5								62	Not Required
690 WL	HARRY MASSER	789, 790	I	1338	515	11,750	—	11,750	—	11,750	—	—	—	62	
691 WL	SCHMIDT & CO.	791	I	1821	35	5,875	—	5,875	—	5,875	—	—	—	62	
692 WD	BEATRICE MURRAY	792	I	1956	70	5,875	—	2090	—	2090	—	—	3785	62	
693 WD	JACK B & ALICE F. MYERS	793	I	2275	39	5,875	—	1013	—	1013	—	—	4856	62	
694 WD	JOHN H. SPENCER	794	I	357	12	5,875	—	109	—	109	—	—	5766	62	
695	MARY MONETT	795		1102	390									62	Not Required
696	JAMES L & CECILE E. GREER	796 / 836		7871 / 7880	335 / 439									62	Not Required
697 WL	SARAH TRIBLETT ETAL	46	U	6394 / 6525 / 6534	44 / 549 / 550	*10.427 Ac.	—	0.348 Ac	—	0.348 Ac	—	6.995 Ac	—	71	*Sold 3.094 Ac. Net: 7.333 Ac.
698 WL	J & D. ENTERPRISES, INC.	335	U	2791	120	3.094 Ac.	0.165 Ac.	0.170 Ac	—	0.170 Ac	—	—	2.759 Ac	71	
699 WL	JOHN C. WEBB & MARGUELLA H. WEBB	1603	U	2059	293	*2.074 Ac.	0.032 Ac	0.032 Ac	—	0.032 Ac	—	1.353 Ac	—	71	*Sold 1.037 Ac. Net = 1.037 Ac
700 WL	CHARLES P. McNAMARA & LOIS M. McNAMARA	1308	U	2615	298	0.93 Ac.	0.082 Ac.	0.080 Ac	—	[illegible]	—	0.768 Ac	—	71	
1000 WL	CLYDE W. NICEWARNER & ETHEL J. NICEWARNER	1893	U	1103	568	*1.058 Ac.	0.103 Ac.	0.130 Ac	—	0.130 Ac	YES	—	0.825 Ac	70	* Calculated
1000 T	" " " "							0.096 Ac.	—	0.096 Ac	YES			70	To Remove Building
1001 WL	THOMAS M. BLACKWOOD & JANE C. BLACKWOOD	1884	U	2579	685	1.10 Ac.	0.10 Ac.	0.140 Ac.	—	0.140 Ac	—	—	0.660 Ac	70	
1002 WL	CLAY W. ROBERTS, ET AL	1885	U	752	100	*1.312 Ac	0.080 Ac	0.233 Ac.	—	0.233 Ac	—	—	0.999 Ac	70	* Calculated
1003 WL	LESTER W. HUBER & LILLIAN V. HUBER	1378	U	1352	116	2.08 Ac.	0.99 Ac.	0.056 Ac	—	0.056 Ac	—	1.034 Ac.	—	70, 71	
1004 WL	STANDARD OIL COMPANY		U	2610	665	0.918 Ac	0.521 Ac.	0.055 Ac.	0.048 Ac	0.007 Ac	—	—	0.390 Ac	70	
65 WD	ALICE L. MOORE		I	1711	3	0.13 Ac.	—	0.13 Ac.	—	0.13 Ac.	—	—	—	87	
78 WL	ETHEL NUZUM		I	968	896	0.13 Ac.	—	0.13 Ac	—	0.13 Ac	—	—	—	87	
79 WL	DOMINIC ROMEO & MARY ROMEO		I	959	330	0.13 Ac.	—	0.13 Ac	—	0.13 Ac	—	—	—	87	
86 WL	CAROLINE E. EASTHOM		I	2381	309	0.13 Ac.	—	0.13 Ac.	—	0.13 Ac	—	—	—	87	
87 WL	HORACE C. ANDERSON		I	1953	322	0.27 Ac	—	0.27 Ac.	—	0.27 Ac.	—	—	—	87	
91 WL	JOHN D. STEWART & JUNE C. STEWART		I	1950	142	0.13 Ac.	—	0.13 Ac	—	0.13 Ac	—	—	—	87	
92 WL	SALVATORE MASCOLA & ANNA MASCOLA		I	969	131	0.13 Ac.	—	0.13 Ac	—	0.13 Ac	—	—	—	87	
96 WL	STANLEY DAVIS		I	1712	88	0.13 Ac.	—	0.13 Ac.	—	0.13 Ac	—	—	—	87	
123 WL	PHOEBA J. AFFOLTES & ELMER L. AFFOLTES		I	922	113	0.13 Ac.	—	0.13 Ac	—	0.13 Ac	—	—	—	87	
2269 WL	CLAUDE McCAMPBELL & ELIZABETH M. McCAMPBELL		I	1633	314	0.27 Ac	0.01	0.26 Ac	—	0.26 Ac	—	—	—	87	Previously known as 124 WL
149 AWL	GEORGE W. NEAL & OLGA E. NEAL		I	2080	583	2.055 Ac.	—	0.789 Ac	—	0.789 Ac	—	1.266 Ac	—	72	
150 AWL	ROSELEE C. LAPOINT		I	2833	257	2.055 Ac.	—	0.856 Ac	—	0.856 Ac	—	1.199 Ac	—	72	
151 AWL	JOHN C. YOUNG & VIRGINIA C. YOUNG		I	2938	171	*3.008 Ac.	—	0.178 Ac	—	0.178 Ac	—	0.737 Ac	0.53 Ac (L.L)	72	*Out Sales, 1.561 Ac. (Previously Landlocked)
152A WL	DONALD LEATHERY		I	2887	366	*3.09 Ac	—	0.62 Ac.	—	0.62 Ac.	—	—	0.852 Ac (L.L)	72	*Out-Sale 2.152 Ac. (Previously Known as 152 WL) (Previously Landlocked)
152A1 WL	" "		I					0.053 Ac.	—	0.053 Ac	—	—	—	72	
152B WL	ABLER INVESTMENT COMPANY		I & U	2801	3	3.85 Ac	—	1.13 Ac.	—	1.13 Ac	—	1.90 Ac	0.665 Ac (L.L)	72 & 73	Previously Known as 152 WL, 152 AWL, 153 WL, 2.1.90 Ac., L.L. 0.02 Ac.
152B1 WL	" "		I					0.157 Ac.	—	0.157 Ac	—			72 & 73	Previously Landlocked
157-AT	THOMAS W. COOK & BETTE J. COOK		U	2820	27	0.89		0.062 Ac	—	0.062 Ac	—		0.89 Ac	73	To Construct Drive
701 WL	JUANITA M. GUNDELFINGER	873	I	2370	587	3.649	—	1.382	—	1.382	YES	1.888	—	78	
701 WD	" "							0.379	—	0.379				78	
702 WL	RAY FOX & KATHERINE FOX	2348	I	1697	635	3.324	—	0.535	—	0.535	YES	2.500	—	78	
702 WD	" "							0.289	—	0.289				78	
703 WL	WILLIAM E. DAVIS & MARY DAVIS	2584	I	2066	137	3.085	—	0.229	—	0.229	—	2.639	—	78	
703 WD	" "			1575	620			0.187	—	0.187	—			78	
704 WL	MERTON D. MAIN & CHARLOTTE MAIN	884	I	1493	206	5.306	—	0.138	—	0.138	—	4.921	—	78	
704 WD	" "	961		1655	262			0.247	—	0.247	—			78	

REV.	DATE	DESCRIPTION

FRA-62-20.83

AMESBURY DRIVE

WILLIAM L. HULET &
THELMA C. HULET

RICHARD D. FLEISHMAN &
THELMA JEANNE FLEISHMAN

THE CITY OF COLUMBUS

RICHARD DALE KAUFMAN &
MARTHA FENSTERMACHER KAUFMAN

LESTER A. STRAWSER &
RITA M. STRAWSER

RICHARD M. & MARGERY G. HABERMAN

EDWIN R. HOLUB &
ANNA K. HOLUB

PAUL L. EVANS &
PATRICIA A. EVANS

THE CITY OF COLUMBUS CORPORATION LINE

Match Line

See Sheet No. 23

END PROJECT	BEGIN PROJECT
FRA-270-23.99 N	FRA-270-23.99N
STA. 1452+00.00	STA. 1452+00.00
I-270-3(7) R/W ONLY	I-270-3(7) R/W ONLY

REV	DATE	DESCRIPTION

TYPE FUND
I

SHEET NO.	STATE	PROJECT	
2	OHIO	I-270-5(7)	

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62-20.85

TIN, R17W

TIN, R17W

SAXON PLACE

CHARLES C & JANICE FRYE #458

CHARLES W SR. & NELLIE K. RITTER #459

PAUL W & MARGIE L. HOSINGTON #460

CHARLES P & JOAN VINING #461

JESSE R VASSAUX #462

JAMES F & RUTH F ELLEESON #463

ROBERT E & MARY SCOFIELD #464

JOHN S & PATRICIA THOMPSON #465

BROOKSIDE SALES INC #466

BROOKSIDE SALES INC #467

BROOKSIDE SALES INC #468

JAMES R & PHYLLIS A MARTIN #469

KEITH A PRICE #469

BENNY R & PEGGY J. HORN #470

BROOKSIDE SALES INC #471

ROBERT L & SANDRA M DAVIS #472

DONN B & MARY R BUCK #473

BUDDY C & DIANNE BOTHAM #474

AMESBURY DRIVE

VILLAGE OF GAHANNA

CITY OF COLUMBUS

CORPORATION LINE

END ACQUISITION
FRA-270-22.99 N
STA 1466+06.59
APPORTION OF I-270-5(7) R/W ONLY

BEGIN ACQUISITION
FRA-270-25.39 N
Sta 1466+06.59
APPORTION OF I-270-5(7) R/W ONLY

Sta 1466+04.75
160.64 Lt

Stone Fnd

Sta 1458+00 I.A.P.A.

Sta 1464+00 I.A.P.A.

Sta 1458+00
128.00 Rt

Sta 1464+00
128.00 Rt

Sta 1466+08.31
140.00 Rt

Sta 1466+06.59

I.P. Fnd
Ø
VILLAGE OF GAHANNA
MIFFLIN TOWNSHIP

Sta 1466+07.64
90.97 Rt

BROOKSIDE SALES INC.

HAVENWOOD PROPERTY INC.

ELBERT L. GREEN & GENEVA GREEN

(192 WL)

(121 WL)

SEE SHEET No 23

SEE SHEET No 25

MATCH LINE STA 1455+00

MATCH LINE STA 1470+00

THE CITY OF COLUMBUS CORPORATION LINE
MIFFLIN TOWNSHIP

Work Limits

LA-R/W

EAST LA-R/W

Item 607 - Type CL 2.813 Lin Ft

REV.	DATE	DESCRIPTION

TYPE FUNC
I

QUANTITIES — SHEETS

	23	24	25	26	30	31	32	33	34	35	36	39	41	47	57	59	60	61	62	64	65	66	67	68	70	71	72	73	74	75	Lin Feet STATE	URBAN	RURAL	ITEM	DESCRIPTION
STATE																									772	1695		2629	2539	561	9056			607	TYPE CL
URBAN	600	2213																														2813		607	TYPE CL
RURAL			2788	2084	200	331	318	303	397	239	318	87	605	605	375	201	573	245	354	171	539	624	206	499			305	3022					16,103	607	TYPE CL

DIST. NO.	STATE	PROJECT	
2	OHIO	I-270-5(6)	

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62-20.83

MIFFLIN TWP.
SEC. 1, U.S.M.L.
T.1N., R.17W

SCALE IN FEET 0 50 100

PENNY LANE

SAXON PLACE

PENNY COURT

PLAT BOOK 35 PAGE 114

END ACQUISITION
FRA-270-22.99N
STA 1466+06.59
APORTION OF I-270-5(7) R/W ONLY

BEGIN ACQUISITION
FRA-270-25.39 N
STA 1466+06.59
APORTION OF I-270-5(7) R/W ONLY

BROOKSIDE SALES INC.

(181)

Sta 1472+91.94
255.98' Lt

S 3° 47' 33" W
852.21

VILLAGE OF GAHANNA
MIFFLIN TOWNSHIP

(183)

LAWRENCE D. THOMSON

Sta 1472+92.96
175.00' Lt

S 2° 38' 32" W
852.16

Sta 1472+93.14
161.39' Lt

Sta 1466+08.75
160.62' Lt

CITY OF COLUMBUS
CORPORATION LINE

Work Limits

S 3° 37' 17" W
668.38

L.A. R/W

Type CL Fence

Sta 1470+00
I.A.P.A.

Sta 1475+00
I.A.P.A.

(181 WL) Cont. 3.893 Ac.
PRO. 0.117 Ac.
Total 4.010 Ac.

(183 WL) Cont. 3.500 Ac.
PRO. 0.101 Ac.
TOTAL 3.601 Ac.

SEE SHEET No. 24

SEE SHEET No. 26

Ex. L.A. R/W

Ex. R/W 50'

Ex. R/W 50'

Ex. R/W 75.0'

Ex. R/W 75.0'

1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479

Sta 1466+06.59

60°

Survey ℄ Construction I-270

Sta 1472+55.19
0.00

S 3° 35' 03" W (Const)

S 3° 47' 33" W (Property)

852.85

Sta 1470+00

MATCH LINE Sta 1480+00

VILLAGE OF GAHANNA
MIFFLIN TOWNSHIP

S 3° 52' 10" W
668.75

(182 WL) Cont. 0.811 Ac.
PRO 0.035 Ac.
TOTAL 0.846 Ac.

Sta 1466+07.64
90.97' Rt

Work Limits

Sta 1472+96.39
93.80' Rt

3" Stat Cinder Dr.

Sta 1472+47.15
154.64' Rt

Sta 1472+72.15
154.82' Rt

Sta 1476+00
I.A.P.A.

(184 WL) Cont. 2.818 Ac.
PRO 0.089 Ac.
TOTAL 2.905 Ac.

PETE FREGONAS
& MARY R. FREGONAS

Sta 1473+48.00
153.57' Rt

Work Limits

Ex. L.A. R/W

Sta 1466+08.31
150.00' Rt

668.36
N 3° 00' 00" E

L.A. R/W

952.87
N 2° 54' 43" E

(184 WD) Cont. 0.126 Ac.
PRO 0.058 Ac.
Total 0.184 Ac.

CITY OF COLUMBUS
CORPORATION LINE

MATCH LINE Sta 1466+00

HAVENWOOD
PROPERTY LINE

ELBERT L. GREEN & GENEVA GREEN

Sta 1472+72.60
183.82' Rt

Cont.
0.010 Ac.

(182 T)

(182 WL)

NOTE
Garage to remain
undisturbed during
construction

Sta 1473+03.00
255.66' Rt

Sta 1473+23.43
255.40' Rt

Sta 1472+98.43
255.29' Rt

Sta 1472+97.16
155.00' Rt

S 3° 50' 53" W
852.71

CODE 1

Item 607 - Type CL 2788 Lin Ft

REV.	DATE	DESCRIPTION

TYPE FUND
1

STA 1465+00 to STA 1480+00, R/W

2	OHIO	I-270-5(18)	

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
FRA-62-20.83

MIFFLIN TWP
SEC. 18 4 U.S.M.L.
T. 1 N. R. 17 W
0 50 100
SCALE IN FEET

BROOKSIDE SALES 3AC

VILLAGE OF GAHANNA / MIFFLIN TOWNSHIP

HAROLD E VAN DELT & JEWELL VAN DELT (197)

HELEN L. CAUDILL (196)

HELEN L. CAUDILL Parcel 196 1.578 Ac Landlocked

JOHN A GALLAGHER & ANGELA F GALLAGHER

JOHN A. GALLAGHER, SR. (186 NL)

LAWRENCE D. THOMSON (183)

VIOLET M. MOONEY

WILLIAM R. KNAUER (188 WL)

EDWARD W. KNAUER (195)

JAMES E. REID (194)

JAMES STEPHENS & PAULINE STEPHENS (193)

JAMES M. FRANCIS & ALICE FRANCIS (192)

PETE FREGONAS & MARY R. FREGONAS (184)

S 3° 33' 03" W 1115.35

S 3° 32' 55" W 1039.09

S 3° 31' 43" W 1112.73

S 3° 31' 33" W 1111.85

S 3° 32' 15" W 1105.00

S 3° 31' 33" W 1103.11

S 3° 31' 56" W 1108.42

S 3° 32' 08" W 1101.12

S 3° 25' 46" W 1107.60

S 3° 32' 13" W 1106.30

S 3° 47' 43" W 852.21

S 3° 47' 33" W 852.45

S 3° 50' 33" W 852.71

N 2° 34' 12" W 852.16

N 2° 54' 43" E 852.87

S 2° 11' 53" E 1175.56

Sta 1481+44.52 225.07 Lt

Sta 1481+44.99 190.00 Lt

Sta 1481+45.32 187.05 Lt Work Limits

Sta 1481+47.63 3.10 Rt

Sta 1481+47.72 9.77 Rt

Sta 1481+48.79 86.32 Rt

Sta 1481+49.57 134.00 Rt

Sta 1481+49.57 145.00 Rt

Sta 1481+49.87 160.00 Rt APA

Sta 1481+50.87 167.00 Rt

Sta 1481+50.94 245.76 Rt

Sta 1481+51.13 259.22 Rt

Sta 1481+88.18 252.84 Lt

Sta 1484+00 APA

Sta 1488+60 225.56 Lt

Sta 1488+60 APA 219.56 Lt

Sta 1489+00.00 P.C.

Sta 1489+11 0.08 Lt

Sta 1491+00.00 P.C.

Sta 1492+56.68, I-270 Sta. 25+20.00 Apln + Rt

Sta 1493+00.00 P.C.

Sta 1496+00.00 P.C.

Sta 1496+90.15 0.07 Lt

Sta 1497+14.23 0.07 Lt

Sta 1497+33.47 0.07 Lt

Sta 1497+75.99 0.08 Lt

Sta 1498+03.87 160.00 Lt

Sta 1498+03.87 160.00 Rt

Sta 1498+60 225.56 Lt

Sta 1498+60 APA 219.56 Lt

Sta 1499+00 APA 166.00 Rt

Sta 1499+00 LA APA

Sta 1499+00 P.C.

Sta 1499+11 0.08 Lt

Sta 1499+75.99 0.08 Lt

Sta 1500+00 P.C.

Sta 1500+00 P.C.

Sta 1500+11.88 0.07 Lt

Sta 1500+75.99 0.08 Lt

Sta 1501+00 P.C.

Sta 1501+11.88 0.07 Lt

Sta 1501+75.99 0.08 Lt

Sta 1502+00 P.C.

Sta 1502+11.88 0.07 Lt

Sta 1502+75.99 0.08 Lt

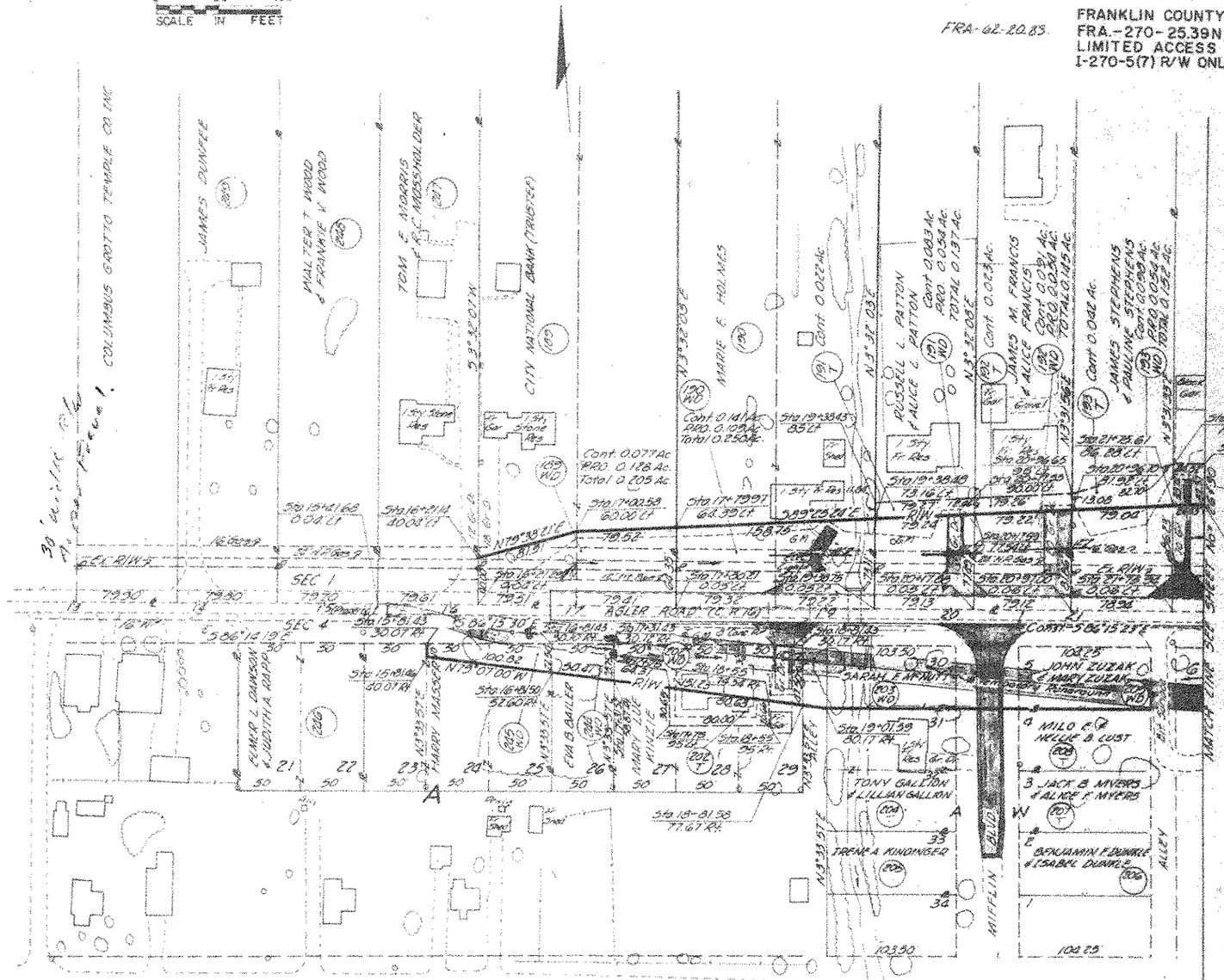
Sta

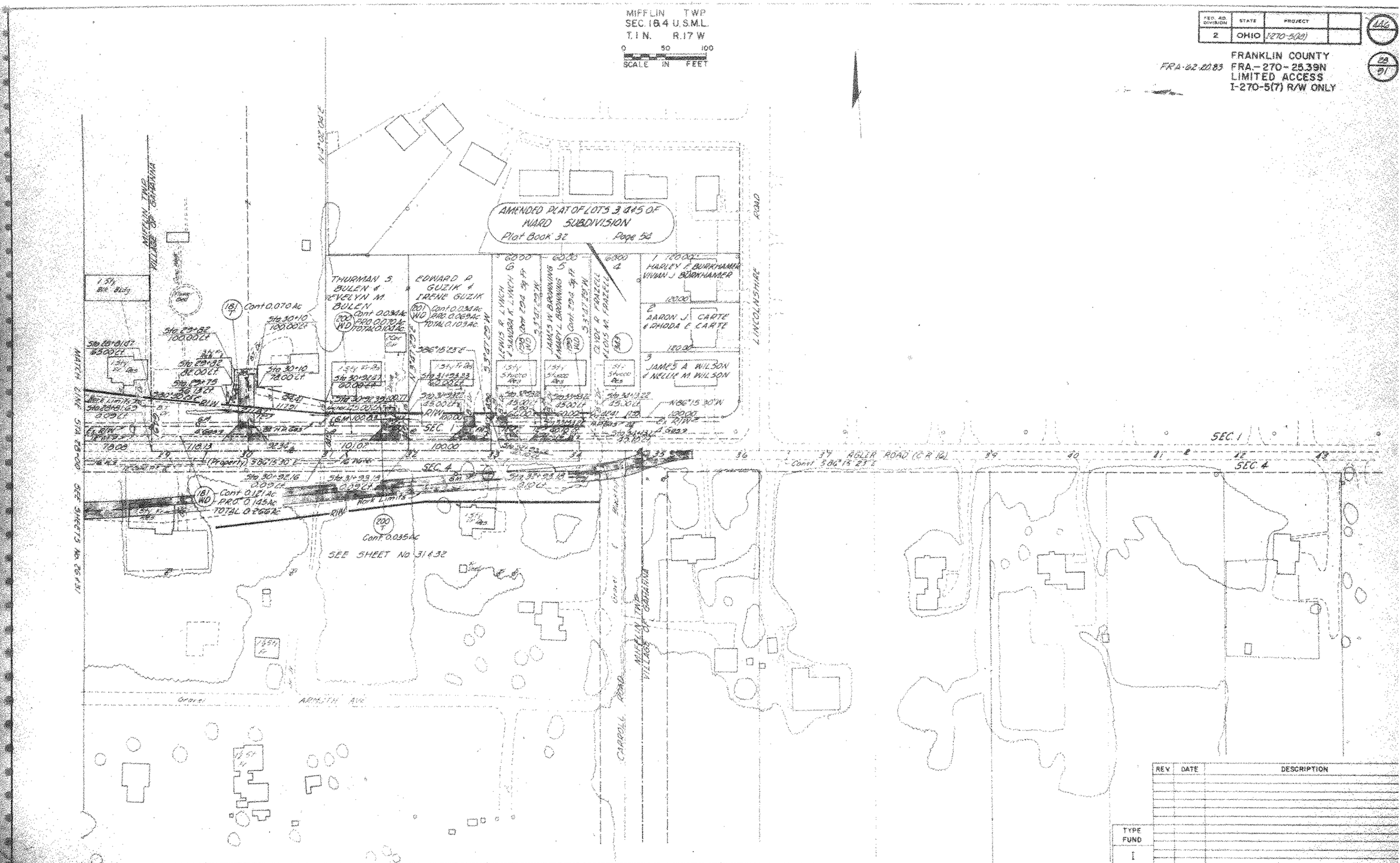
MIFFLIN TWP
SEC. 18 4 U.S.M.L.
T. 1 N. R. 17 W
0 50 100
SCALE IN FEET

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	F-270-5(18)	

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62-20.83.


JAMES DUNFEE
WALTER T WOOD & FRANNIE V WOOD
TOM E MORRIS & R.C. MOSSHOLDER
CITY NATIONAL BANK (TRUSTEE)
MARIE F HOLMES
RUSSELL L PATTON & ALICE L PATTON
JAMES M FRANCIS & ALICE FRANCIS
JAMES STEPHENS & PAULINE STEPHENS
COLUMBUS GROTTO TEMPLE CO INC
Cont 0.077 Ac
PRO. 0.128 Ac.
Total 0.205 Ac.
Cont 0.018 Ac.
PRO. 0.109 Ac.
Total 0.250 Ac.
Cont 0.083 Ac.
PRO. 0.054 Ac.
TOTAL 0.137 Ac.
Cont 0.023 Ac.
Cont 0.009 Ac.
PRO. 0.030 Ac.
TOTAL 0.145 Ac.
Cont 0.042 Ac.
Cont 0.009 Ac.
PRO. 0.043 Ac.
TOTAL 0.052 Ac.
Cont 0.019 Ac.
SEC 1
SEC 4
ASLER ROAD (C.R. 110)
ARMUTH AVE
CAMERON L DAWSON & JUDITH A RAPP
HARRY KARSOCK
EVA B GAILER
MARY LOU HINKLE
SARAH E ARMUTH
TONY GALLION & LILLIAN GALLION
IRENE A KINDINGER
JOHN ZUZAK & MARY ZUZAK
MILO C & NELLIE B LUST
JACK B MYERS & ALICE F MYERS
BENJAMIN F DUNKLE & ISABEL DUNKLE
MIFFLIN BLVD
ALLEY
Sta 15+81.43 30.07 Rt
Sta 16+81.14 30.03 Rt
Sta 17+99.71 64.39 Lt
Sta 19+38.43 85 Lt
Sta 19+38.40 73.16 Lt
Sta 20+79.65 90.00 Lt
Sta 21+29.61 87.98 Lt
Sta 22+00 120 Lt
Sta 21+79.69 120 Lt
Sta 21+00 87.63 Rt
Sta 16+81.68 0.04 Lt
Sta 17+00.58 6.00 Lt
Sta 18+81.58 77.67 Rt
Sta 19+81.55 95 Lt
Sta 18+81.55 95 Rt
Sta 19+81.59 30.17 Rt
Sta 18+55 19.34 Rt
Sta 15+81.43 30.07 Rt
Sta 16+81.85 30.07 Rt
Sta 15+81.43 30.07 Rt
Sta 15+81.68 0.04 Lt
Sta 16+81.14 30.03 Rt
Sta 17+00.58 6.00 Lt
Sta 17+99.71 64.39 Lt
Sta 19+38.43 85 Lt
Sta 19+38.40 73.16 Lt
Sta 20+79.65 90.00 Lt
Sta 21+29.61 87.98 Lt
Sta 22+00 120 Lt
Sta 21+79.69 120 Lt
Sta 21+00 87.63 Rt
Sta 18+81.58 77.67 Rt
Sta 19+81.55 95 Lt
Sta 18+81.55 95 Rt
Sta 19+81.59 30.17 Rt
Sta 18+55 19.34 Rt
N 79°38'21" E
N 79°07'00" W
N 13°32'03" E
N 13°32'03" E
N 13°32'03" E
N 13°32'03" E
S 13°32'03" W
S 13°32'03" W
S 13°32'03" W
S 13°32'03" W
S 86°14'19" E
S 86°15'23" E
S 86°15'23" E
100.82
158.75
79.52
79.30
79.30
79.30
79.61
79.52
79.13
79.12
79.22
79.24
79.00
79.00
79.00



MIFFLIN TWP
SEC. 1 & 4 U.S.M.L.
T. 1 N. R. 17 W
0 50 100
SCALE IN FEET
FED. RD. DIVISION 2
STATE OHIO
PROJECT I-270-5(8)
FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
FRA-62-20.83
AMENDED PLAT OF LOTS 3, 4 & 5 OF WARD SUBDIVISION
Plat Book 32 Page 54
THURMAN S. BULEN & EVELYN M. BULEN
EDWARD P. GUZIK & IRENE GUZIK
HARLEY F. BURKHAMER
VIVIAN J. BURKHAMER
AARON J. CARTE & RHODA E. CARTE
JAMES A. WILSON & NELLIE M. WILSON
LINCOLNSHIRE ROAD
MIFFLIN TWP
VILLAGE OF GAHANNA
MATCH LINE STA. 28+00
SEE SHEET 3 No. 26 & 31
SEC. 1
SEC. 4
AGLER ROAD (C.R. 16)
Const. 5.86° 15' 23" E
Cont. 0.070 Ac
Cont. 0.121 Ac
PRO. 0.145 Ac
TOTAL 0.266 Ac
Cont. 0.035 Ac
Work Limits
SEE SHEET No. 31 & 32
Gravel
ARMITH AVE
CARROLL ROAD
MIFFLIN TWP
VILLAGE OF GAHANNA
REV
DATE
DESCRIPTION
TYPE
FUND
I
STA. 28+00 TO STA. 43+00 AGLER RD. R/W

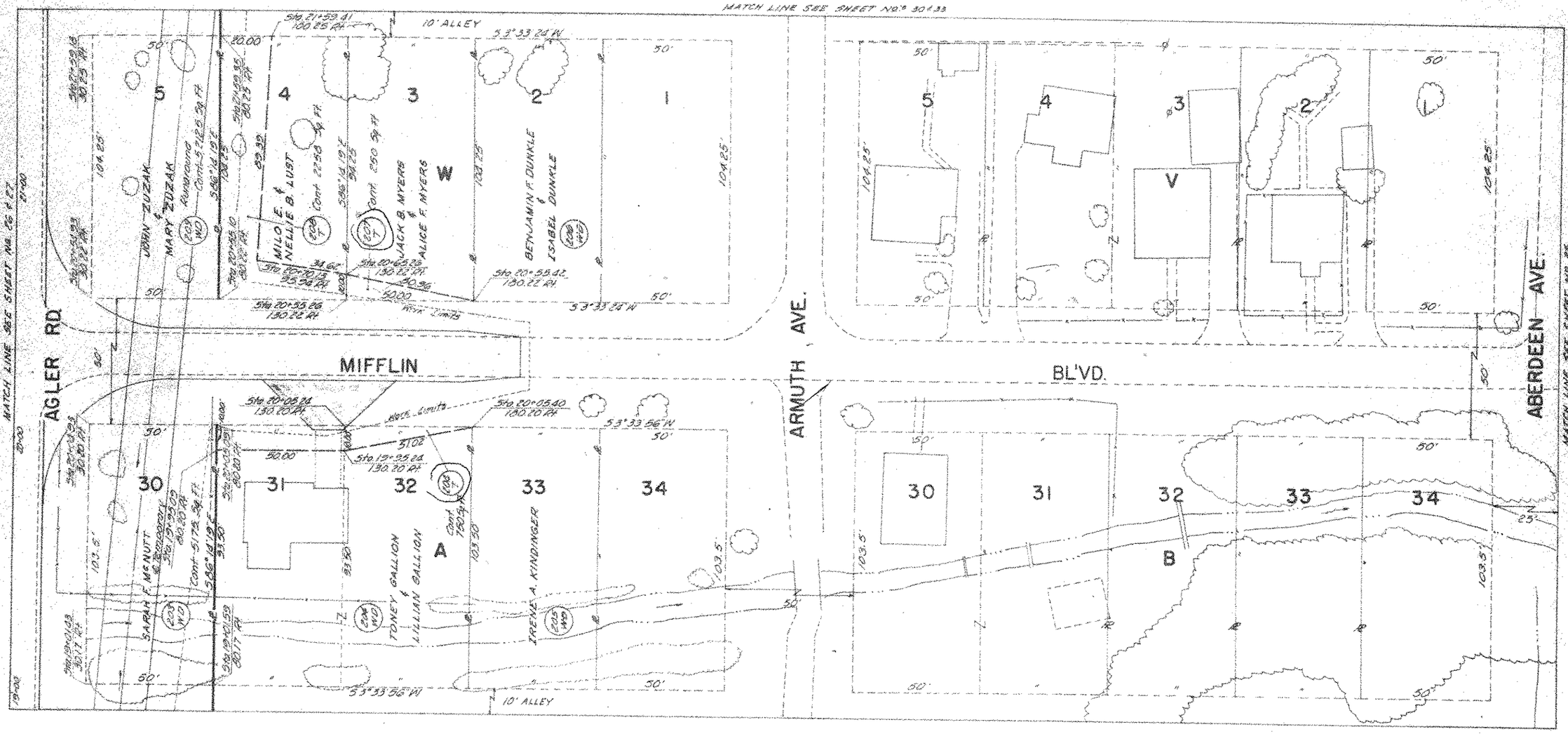
MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.IN., R.17W.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-2(28)	

FRANKLIN COUNTY
FRA-62-20.83 FRA.-270-25.35N
LIMITED ACCESS
I-270-5(7)R/W ONLY

0 20 40
SCALE IN FEET

MATCH LINE SEE SHEET NO. 30 OF 33



LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "V" & "W" PLAT BOOK 18, PAGE 55

LEONARD PARK ADDITION SUBDIVISION
BLOCKS "A" & "B" PLAT BOOK 18, PAGES 18 & 19

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

SCALE IN FEET 0 20 40

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-'20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

MATCH LINE SEE SHEET No. 26

AGLER RD.

S 86°14'19" E

Sta 22+79.18 30.25 Rt.
Sta 23+29.18 30.34 Rt.
Sta 21+79.18 30.26 Rt.
Sta 21+79.35 31.40 Rt.
Sta 23+79.37 87.13 Rt.
Sta 21+79.45 112.76 Rt.
Sta 23+29.38 30.00 Rt.
Sta 23+29.45 112.80 Rt.
Sta 15+94+06.12 88.35 Rt.
Sta 15+94+21.38 87.93 Rt.
Sta 15+94+21.13 77.94 Rt.
Sta 15+94+21.13 76.94 Rt.
Sta 15+95+39.35 73.98 Rt.
Sta 15+95+39.35 72.98 Rt.

(210 WD) Cont. 5399 Sq. Ft.
(211 WD) Cont. 2914 Sq. Ft.
(210 T) Cont. 2851 Sq. Ft.
(211 T) Cont. 1812 Sq. Ft.
(212 WL) Cont. 11,750 Sq. Ft.
(213 WL) Cont. 11,730 Sq. Ft.
(214 WL) Cont. 5875 Sq. Ft.
(215 WL) Cont. 5875 Sq. Ft.
(216 WL) Cont. 5875 Sq. Ft.
(217 WL) Cont. 5875 Sq. Ft.
(218 WL) Cont. 22937 Sq. Ft.
(219 WL) Cont. 22937 Sq. Ft.
(234 WL) Cont. 22937 Sq. Ft.
(235 WL) Cont. 22937 Sq. Ft.
(236 WL) Cont. 5875 Sq. Ft.
(237 WL) Cont. 5875 Sq. Ft.
(238 WL) Cont. 5875 Sq. Ft.
(239 WL) Cont. 5875 Sq. Ft.
(240 WL) Cont. 7637.5 Sq. Ft.
(241 WL) Cont. 7637.5 Sq. Ft.
(242 WL) Cont. 5875 Sq. Ft.
(243 WL) Cont. 5875 Sq. Ft.

1.5% Ex. 90
1.5% Ex. 90

Abut. Cont.
Work Limits
Temporary Pavement
Temporary Right of Way
Ex. R/W
Ex. Sanitary Sewer Easement
Ex. Storm Sewer Easement
Ex. Water Line Easement
Ex. Gas Line Easement
Ex. Telephone Line Easement
Ex. Electric Line Easement
Ex. Drainage Easement
Ex. Sanitary & Storm Sewer Easement
Ex. Water & Gas Line Easement
Ex. Water & Telephone Line Easement
Ex. Gas & Telephone Line Easement
Ex. Gas & Electric Line Easement
Ex. Telephone & Electric Line Easement
Ex. Water, Gas & Telephone Line Easement
Ex. Gas, Telephone & Electric Line Easement
Ex. Water, Gas, Telephone & Electric Line Easement

RAMP "S"
RAMP "G"
RAMP "W"

N 3°33'22" E
N 3°33'28" E
S 5°33'25" W
S 5°33'22" W
S 3°33'22" W
S 3°33'25" W
N 86°58'30" W

100.18
100.00
50.00
50.09
50.04
52.70
11.30
3.36
12.80
117.50'
15'
10'
40'
25'
50'

ALLEY

6 7 8 9 10 11 12 13 14 15 16

54 53 52 51 50 49 48 47 46 45 44

JACK B. MYERS & ALICE F. MYERS
ELBERT L. GREEN
RALPH T. MATHENY & MARY E. MATHENY
ELSIE E. WILLIAMS
G. T. & A. ALLEN HOLMES
DOROTHY MAE ATER
LEON R. LOECHLER, TRUSTEE
HARRY MASSER
G. G. HYLTON
MARTHA A. SHAW
ELMER R. LUMP & GARNET E. LUMP
CHARLES CERVENKA & EDNA CERVENKA
WILBUR W. BURGIN
JAMES STEPHENS & PAULINE STEPHENS

ARMUTH AVE.

MATCH LINE SEE SHEET No. 31

MATCH LINE SEE SHEET No. 33

CURVE DATA
I.R. - 270
P.I. Sta 1506+38.66
Δ = 33° 13' 56"
D = 1° 09' 00"
R = 5055.51'
L = 2932.25'
T = 1508.66'
E = 220.31'

CURVE DATA
RAMP "S"
P.I. Sta 6-1493+99.24
Δ = 2° 59' 30"
D = 0° 30' 00"
R = 11459.16'
L = 598.35'
T = 299.24'
E = 3.91'

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "W" PLAT BOOK 18, PAGE 55

Item 607 - Type CL 282 Lin. Ft.

REV	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. 1N., R. 17W.

0 20 40
SCALE IN FEET

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)	

FRA42-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

140

91/91

MATCH LINE SEE SHEET NO 29+88

AGLER RD.

Sta 29+51.72 30.50 Rt
Sta 30+01.72 30.51 Rt
Sta 30+51.72 30.53 Rt
Sta 31+01.72 30.54 Rt
Sta 31+51.72 30.56 Rt
Sta 32+01.72 30.57 Rt
Sta 33+01.72 30.60 Rt

221 WD Cont 2925 Sq Ft
223 WD Cont 2684 Sq Ft
224 WD Cont 2303 Sq Ft
225 WD Cont 1782 Sq Ft
226 WD Cont 3181 Sq Ft

Temporary Runaround

Sta 30+01.85 30.00 Rt
Sta 30+51.85 30.00 Rt
Sta 31+40.92 14.00 Rt
Sta 31+51.81 68.00 Rt
Sta 32+01.79 62.00 Rt
Sta 33+01.79 62.00 Rt

Hard Limits

17 18 19 20 21 22 23 24 25 26 27

MARY MASSER, ET AL. 219 WL Cont 3873 Sq Ft
GEORGE CHING & HELEN L. CHING 220 WL Cont 11,730 Sq Ft
FRANK A. & PATRICIA BROWN 221 WD
CHARLES & EDNA CERVENK 222 WD
ROY W. THOMAS 223 WD
STEPHEN P. FAHERTY 224 WD
HARRY MASSER 225 WD
CHARLES LEROY JONES & ANNA AUDRY JONES 226 WD

Sta 29+32.00 148.00 Rt
Sta A 1498+38.38 186.57 Ct
Sta A 1495+73.50 167.11 Lt

N 36°15'03" W 30.00 RIW
S 36°15'03" E 30.00 RIW

15' ALLEY
50' ALLEY

MATCH LINE SEE SHEET NO 30

43 42 41 40 39 38 37 36 35 34 33

CLAUDE LOWRY 231 WL Cont 11,790 Sq Ft
RAMP "D"
RAMP "A"
FLOYD W. BURGIN 230 WL Cont 2937.5 Sq Ft
GEORGE W. MASON 229 WL Cont 2033.5 Sq Ft
HARRY MASSER 227 WL Cont 11,758 Sq Ft

Sta A 1498+42.02 14.00 Lt
Sta A 1499+77.97 91.68 Lt

LA-RIW

117.50'

ARMUTH AVE.

MATCH LINE SEE SHEET NO 34

MATCH LINE SEE SHEET NO 32

CURVE DATA
RAMP "A"
PI Sta A-1500+01.24
Δ = 71°30'50"
D = 6°00'00"
R = 954.93'
L = 1191.90'
T = 687.62'
E = 221.81'

CURVE DATA
RAMP "D"
PI Sta D-1494+42.47
L = 400.00'
D = 3°00'00"
R = 1909.86'
Δ = 6°00'00"
D = 3.49'
K = 199.93'
x = 399.36'
y = 13.95'
LT = 266.82'
ST = 133.47'
LC = 399.81'

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "W" PLAT BOOK 18, PAGE 55

Item 607 - Type CL 331 Lin Ft

REV.	DATE	DESCRIPTION
	9-3-70	New Owners Parcels 221WD & 224WD

TYPE FUND
I

VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)	

A50

32/71

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
1-270-5(7) R/W ONLY
FRA-62-20.83

MATCH LINE SEE SHEETS No. 69 & 68

0 20 40
SCALE IN FEET

ERNEST L. RUCK & PATRICIA L. RUCK
661

Cont. 0.205 Ac 661 AL

S 19° 15' 03" E 600.00'
S 19° 15' 03" E 599.00'
S 70° 44' 57" W 111.01'
82.97'

5.3° 36 00" W

Exist R/W

VILLAGE OF GAHANNA CORPORATION LINE
MIFFLIN TOWNSHIP

LA R/W

Exist R/W

Bit & Gr Drive

CARROLL RD.

AGLER RD.

AGLER RD (CO. RD. 19)

MATCH LINE SEE SHEET NO. 19

S 36° 14' 12" E 104.65'
S 36° 14' 12" E 30.00' M
S 36° 14' 12" E 30.00' M
S 36° 25' 23" E 30.00' M
Cont. 3° 17' 14" 30.00' M
N 0° 26' 23" W 104.65'
HOWARD N. FISHER
RM

S 89° 33' 37" E 62.00' M
S 89° 33' 37" E 62.00' M

31.36 18.64 25' 25' 50' 50' 50' 50' 50' 50' 50' 50' 25' 25' 50'

28 29 30 31 32 ARMUTH AVE. 28 29 30 31 32 ABERDEEN AVE.

W V

104.35' 104.45' 104.32' 104.33' 104.62'

S 89° 41' 50" E 62.00' M
S 89° 41' 50" E 62.00' M
S 89° 41' 50" E 104.23' M
S 89° 41' 50" E 104.23' M
S 89° 41' 50" E 104.23

MIFFLIN TWP
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

0 20 40
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(9)	

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

451

33/91

MATCH LINE SEE SHEET NR. 30

ARMUTH AVE.

25'

50'

117.50'

6 7 8 9 10 11 12 13 14 15 6

HARRY MASSER 250
CLYDE A. RUBY 251
WALTER E. PYLE Conv. 5875 Sq. Ft. 252 WL
HARRY MASSER Conv. 11,750 Sq. Ft. 253 WL
CARL H. REISERT, JR. Conv. 2937.5 Sq. Ft. 254 WL
ANDREW J. WHITE JR. TRUSTEE Conv. 2937.5 Sq. Ft. 255 WL
HARRY MASSER Conv. 5875 Sq. Ft. 256 WL
EILEEN I. COHEN BERTHA E. RINGER Conv. 11,750 Sq. Ft. 257 WL
HARRY MASSER Conv. 5875 Sq. Ft. 258 WL
MARY ESTHER EVANS Conv. 5875 Sq. Ft. 259 WL

Sta 6+92.54 Ω
81.92 Rt.

Sta 6+92.54 Ω
LARW Ahd 26.50'

Sta 6+30.09
Back Line of 11750 Sq. Ft. Conv. 15.00' SOUTH

Sta 6+36.35 PCC

Sta 6+49.97 RAMP "G"

Sta 6+49.97 Ω
N 86°12'06" W
50.00'

Sta 5+49.09.36
86.17 Rt.

Sta 5+49.08.76
76.19 Rt.

15' ALLEY

Sta 5+49.28.26
125.08 Rt.

Sta 5+49.36.38
36.45 Rt.

10' ALLEY

54 53 52 51 50 49 48 47 46 45 44

Sta 6+09.55.47
111.83 Rt.

LARW Ahd

Back Line of 11,750 Sq. Ft.

JOHN W. EVENER & DORA R. EVENER Conv. 11,750 Sq. Ft. 261 WL

H. L. WAYNE Conv. 5875 Sq. Ft. 260 WL
HARRY MASSER Conv. 5875 Sq. Ft. 262 WL
BERNICE GUTKNECHT Conv. 5875 Sq. Ft. 263 WL
RICHARD D. & SHIRLEE WARE CLAIM Conv. 5875 Sq. Ft. 264 WL
GEORGE & LENIGAR MARJORIE LENIGAR Conv. 5875 Sq. Ft. 265 WL
HARRY MASSER Conv. 5875 Sq. Ft. 266 WL
EDSEL G. CLARK Conv. 5875 Sq. Ft. 267 WL

18.7'

ABERDEEN AVE.

MATCH LINE SEE SHEET NR. 36

CURVE DATA
I.R. 270
P.I. Sta 1+506+98.66
Δ = 33°13'56"
D = 1°08'00"
R = 5055.51'
L = 2932.25'
T = 1508.66'
E = 220.31'

CURVE DATA
RAMP "G"
P.I. Sta G-1+33+99.24
Δ = 2°59'30"
D = 0°30'00"
R = 11,459.16'
L = 598.35'
T = 299.24'
E = 39.1'

CURVE DATA
RAMP "G"
P.I. Sta G-1+50+02.81
Δ = 24°00'00"
D = 4°00'00"
R = 1432.39'
L = 600.00'
T = 304.47'
E = 32.00'

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "V" PLAT BOOK 18, PAGE 55

Item 607-Type CL 903 Lin. Ft.

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17W.

0 20 40
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(R)	

FRA-62-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

152

3d
91

MATCH LINE SEE SHEET NO. 31

ARMUTH AVE.

25' 50' 25' 25' 25' 25' 25' 25' 25' 25' 25' 25' 50' 50' 25' 25' 50' 25'

17 18 19 20 21 22 23 24 25 26 27

CALEB HODSON Const. 5875 Sq. Ft. (264 WL)
ROY C. BALDAUF Const. 2932.5 Sq. Ft. (261 WL)
JAMES F. SIDERS Const. 2932.5 Sq. Ft. (262 WL)
JAMES F. SIDERS & MARY E. SIDERS Const. 2932.5 Sq. Ft. (263 WL)
JAMES F. SIDERS Const. 2932.5 Sq. Ft. (264 WL)
INA G. CONKLE Const. 2932.5 Sq. Ft. (265 WL)
JAMES F. SIDERS Const. 5875 Sq. Ft. (266 WL)
ROYCE OHLINGER & TAMANDA OHLINGER Const. 1225 Sq. Ft. (267 WL)
CARL A. ALBRIGHT Const. 5875 Sq. Ft. (268 WL)
GERTRUDE HOOPER Const. 875 Sq. Ft. (272 WL)
ARMANDO A. PEREZ (270)
MABEL R. NASH (271)
WILLIAM SPONAGLE & EVA SPONAGLE (272)

Sta A-1497+16.87 35.84 Ch
Sta A-1497+16.87 35.84 Ch
Sta A-1497+52.71 35.84 Ch
Sta A-1498+28.55 35.84 Ch
Sta A-1498+64.39 35.84 Ch
Sta A-1499+00.23 35.84 Ch
Sta A-1499+36.07 35.84 Ch
Sta A-1499+71.91 35.84 Ch
Sta A-1499+71.91 35.84 Ch
Sta A-1499+71.91

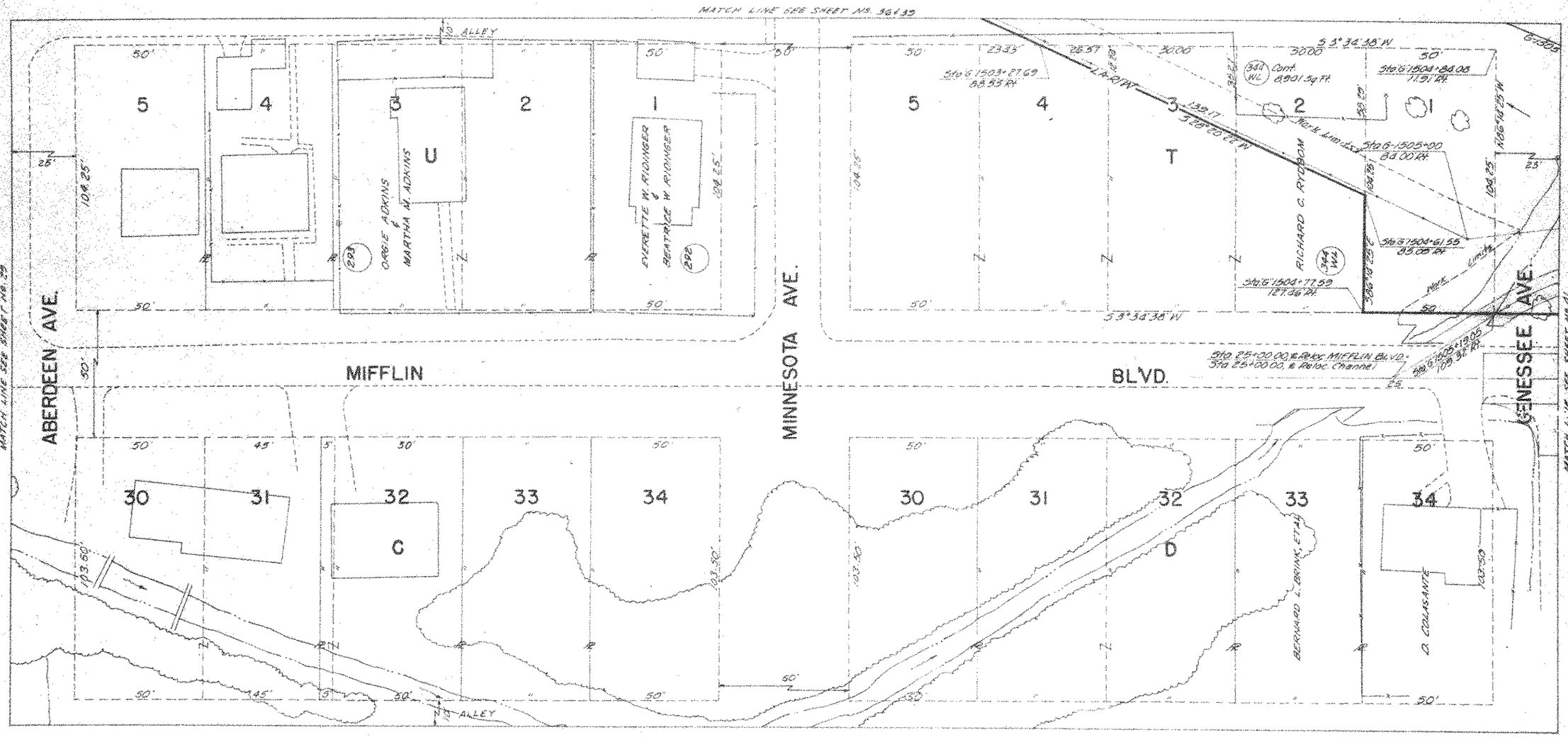
MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

0 20 40
SCALE IN FEET

REG. RD. DIVISION	STATE	PROJECT	
2	OHIO	FRA-270-5(7)R	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
1-270-5(7)R/W ONLY


MATCH LINE SEE SHEET NO. 36 & 39
N.S. ALLEY
ABERDEEN AVE.
MINNESOTA AVE.
TENNESSEE AVE.
MIFFLIN BL'VD.
MATCH LINE SEE SHEET NO. 29
MATCH LINE SEE SHEET NO. 41
ORGIE ADKINS & MARTHA M. ADKINS
EVERETTE W. RIDINGER & BEATRICE W. RIDINGER
RICHARD C. RYDBOM
Work Limits
Work Limits
Sta 6+15.04 PT
Sta 25+00.00, ℄ Reloc. MIFFLIN BLVD.
Sta 25+00.00, ℄ Reloc. Channel
BERNARD L. BRINK, ET AL
O. COLASANTE
N.S. ALLEY
5° 34' 38" W
N 86° 16' 25" W
103.60'
103.30'
103.30'
104.25'
106.25'
139.17'
Cont. 8901.3 sq Ft.
Cont. 11.51 Ft.
Cont. 83.00 Ft.
Cont. 85.28 Ft.
Cont. 127.36 Ft.
Cont. 109.32 Ft.
Cont. 109.32 Ft.
Cont. 109.32

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17 W.
0 20 40
SCALE IN FEET

F.H.D. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(8)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MATCH LINE SEE SHEET NO. 33

ABERDEEN AVE.

MATCH LINE SEE SHEET NO. 35

MATCH LINE SEE SHEET NO. 37

MINNESOTA AVE.

MATCH LINE SEE SHEET NO. 39

CURVE DATA
RAMP "G"
P.I. Sta 6+1500+02.81
Δ = 24°00'00"
D = 4°00'00"
R = 1432.39'
L = 600.00'
T = 304.47'
E = 32.00'

CURVE DATA
I-R 270
P.I. Sta 1506+38.66
Δ = 33°13'56"
D = 1°08'00"
R = 5055.51'
L = 2932.25'
T = 1500.66'
E = 220.31'

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "U" PLAT BOOK 18, PAGE 55

Item 607--Type CL 318 Lin. Ft.

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

0 20 40
SCALE IN FEET

MATCH LINE SEE SHEET No. 39

PROJ. REP. DIVISION	STATE	PROJECT
2	OHIO	I-270-3(20)

FRA-62-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

ABERDEEN AVE.

17 Harry Masser Cont. 5875 Sq. Ft. (304 WL)
18 Mathew C. & Edna M. Nevins Cont. 5875 Sq. Ft. (303 WL)
19 Ruth D. Lynn Cont. 5875 Sq. Ft. (306 WL)
20 Annabelle Mahoney Cont. 5875 Sq. Ft. (300 WL)
21 Sarah E. Weindelmoot Cont. 2935 S Sq. Ft. (309 WL)
Sarah M. Mitchell Cont. 2935 S Sq. Ft. (310 WL)
22 Clifford Dale Hall Cont. 2935 S Sq. Ft. (311 WL)
Mary Masser Cont. 2935 S Sq. Ft. (312 WL)
23 Vennie Shipman Cont. 2935 S Sq. Ft. (313 WL)
H.L. Mayne Cont. 2935 S Sq. Ft. (314 WL)
24 Rose F. Drake Cont. 5875 Sq. Ft. (315 WL)
25 John A. Radabaugh & Grace E. Radabaugh Cont. 5875 Sq. Ft. (316 WL)
26 Elbert M. & Betty U. Sholes Cont. 5875 Sq. Ft. (317 WL)
27 Ella M. McIntire Cont. 5875 Sq. Ft. (318 WL)

43 Emma Zeith Hampson Cont. 5875 Sq. Ft. (333 WL)
42 Schmidt & Company Cont. 2935 S Sq. Ft. (332 WL)
Bernice Gutknecht Cont. 2935 S Sq. Ft. (331 WL)
41
40
39 Cont. 13625 Sq. Ft. (330 WL)
38 Elbert Lee Greene Cont. 5875 Sq. Ft. (329 WL)
Pearl O. & Flossie L. Brown Cont. 2935 S Sq. Ft. (328 WL)
37 Cont. 2935 S Sq. Ft. (327 WL)
Ivan O. Runkle
Marie Dice
36 Charles J. & Nellie M. Bauman Cont. 5875 Sq. Ft. (326 WL)
35 Esther N. & Norman J. Gurevitz Cont. 5875 Sq. Ft. (325 WL)
34 John Shaker Cont. 5875 Sq. Ft. (324 WL)
33 Margaret J. Stanley Cont. 5875 Sq. Ft. (323 WL)

15' ALLEY
10' ALLEY
117.50'
117.30'
50'
25'
33.2'
27.1'
D.G.M.
E. Boz. Line
MATCH LINE SEE SHEET No. 38
MATCH LINE SEE SHEET No. 36

MINNESOTA AVE.

MATCH LINE SEE SHEET No. 40

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "U" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T.1N., R.17W.

RED RIVER DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(8)	

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY
FRA-62-10.85

MATCH LINE SEE SHEET No. 69 — SCALE IN FEET 0 20 40 — MATCH LINE SEE SHEET No. 67

S 3° 34' 00" W 622.60

EXIST R/W

VILLAGE OF GAHANNA — CORPORATION LINE — MIFFLIN TOWNSHIP

CARROLL RD.

ABERDEEN AVE.

MINNESOTA AVE.

GENESEE AVE.

FANCAT & PATRICIA C. RUCK (GSL WL) Cont. 0.205 Ac.

D.M. VAGNONE & JANET VAGNONE (GSL WL) Cont. 1.587 Ac

1.5 Ft. R/W

RAMP "A"

N 88° 12' 39" W 110.00

S 10° 11' 39" E 203.05 L.C.

S 10° 14' 01" E 154.65 L.C.

N 80° 20' 31" E 104.79

S 80° 20' 31" W 104.79

E BRK

Conc.

Block Wall

10' ALLEY

MATCH LINE SEE SHEET No. 37

MATCH LINE SEE SHEET No. 38

MATCH LINE SEE SHEET No. 67&68

	28	29	30	31	32
	HERBERT J. MOULD JR. & BETTY S. MOULD (319 WL) Cont. 5253 Sq. Ft.	HARRY MASSER (320 WL) Cont. 5225 Sq. Ft.	SCHMIDT & CO. (321 WL) Cont. 2520 Sq. Ft.	GEORGE E. STANLEY (322 WL) Cont. 1.5 Ac. ± & 571 Ft. R/W	
	104.65'	104.68'	104.72'	104.79'	104.82'

	28	29	30	31	32
	STATE OF OHIO (13 WL)	ALBERT T. LUNDBERG (324 WL) Cont. 2673 Sq. Ft.	MARY E. MOUNTYARE (323 WL) Cont. 2673 Sq. Ft.	STATE OF OHIO (128 WL)	LUCY J. JOHNSON RANDALL (326 WL) Cont. 5763.5 Sq. Ft.
	104.85'	104.88'	104.90'	104.92'	104.95'

	32
	WALTER J. KELLY ETAL (360 WL) Cont. 5230 Sq. Ft.
	105.02'

CURVE DATA
U.S.-62 S.B.
P.I. Sta 1157+47.88
Δ: 38° 27' 39"
D: 2° 30' 00"
R: 2291.83'
L: 1538.43'
T: 799.46'
E: 135.44'

CURVE DATA
RAMP "A"
P.I. Sta A-1900+01.28
Δ: 71° 30' 50"
D: 6° 00' 00"
R: 954.93'
L: 1191.90'
T: 687.82'
E: 221.81'

LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "T" & "U" PLAT BOOK 18, PAGE 55

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T 1N, R 17W

REV	DATE	DESCRIPTION

TYPE FUND
I

REG. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

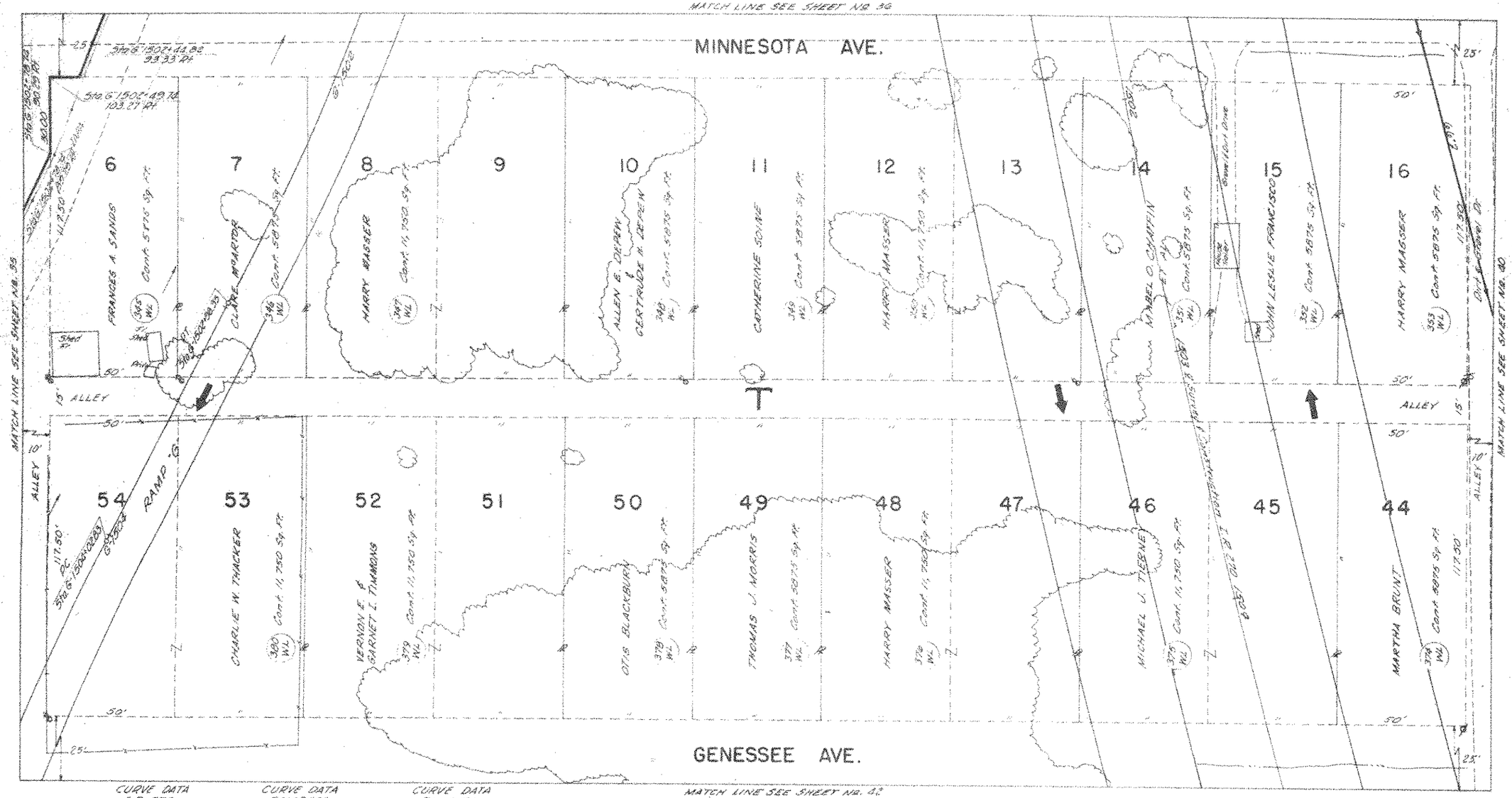
FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39 N
LIMITED ACCESS
I-270-5(7)R/W ONLY

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.1N., R.17 W.

0 20 40
SCALE IN FEET

MATCH LINE SEE SHEET NO. 36


MINNESOTA AVE.
GENESSEE AVE.
6
7
8
9
10
11
12
13
14
15
16
54
53
52
51
50
49
48
47
46
45
44
FRANCES A SANDS
CLARE MARTIN
HARRY MASSER
ALLEN & DERRY
GERTRUDE M. DERRY
CATHERINE SOANE
HARRY MASSER
MABEL O. SHAFFIN
JOHN LESLIE FRANCISCO
HARRY MASSER
CHARLIE W. THACKER
VERNON E. & GARNET L. TIMMONS
OTIS BLACKBURN
THOMAS J. MORRIS
HARRY MASSER
MICHAEL J. TIERNEY
MARTHA BRUNT
ALLEY
RAMP "G"
Sta G-1500+49.70
103.27 Rt.
Sta G-1500+48.88
93.33 Rt.
Sta G-1500+28.35
Sta G-1500+02.83
Sta G-1507+62.21
Sta G-1500+00.00
Sta G-1500+02.81
Sta G-1507+62.21

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.IN., R.17W.

SCALE IN FEET

MATCH LINE SEE SHEET NO. 37

FED. REG. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MINNESOTA AVE.

MATCH LINE SEE SHEET NO. 39

MATCH LINE SEE SHEET NO. 39

GENESSEE AVE.

MATCH LINE SEE SHEET NO. 43

CURVE DATA
US-62 S.B.
P.I. Sta. 1157+07.88
Δ: 38°27'39"
D: 2°30'00"
R: 2291.83'
L: 1538.43'
T: 799.46'
E: 135.88'

CURVE DATA
RAMP "D"
P.I. Sta D-1507+17.35
L': 800.00
D: 4°30'00"
R: 1273.24'
Θ: 9°00'00"
P: 5.23'
M: 199.84'
x: 399.01'
y: 20.91'
LT: 267.01'
ST: 133.65'
LC: 399.56'

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "T" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

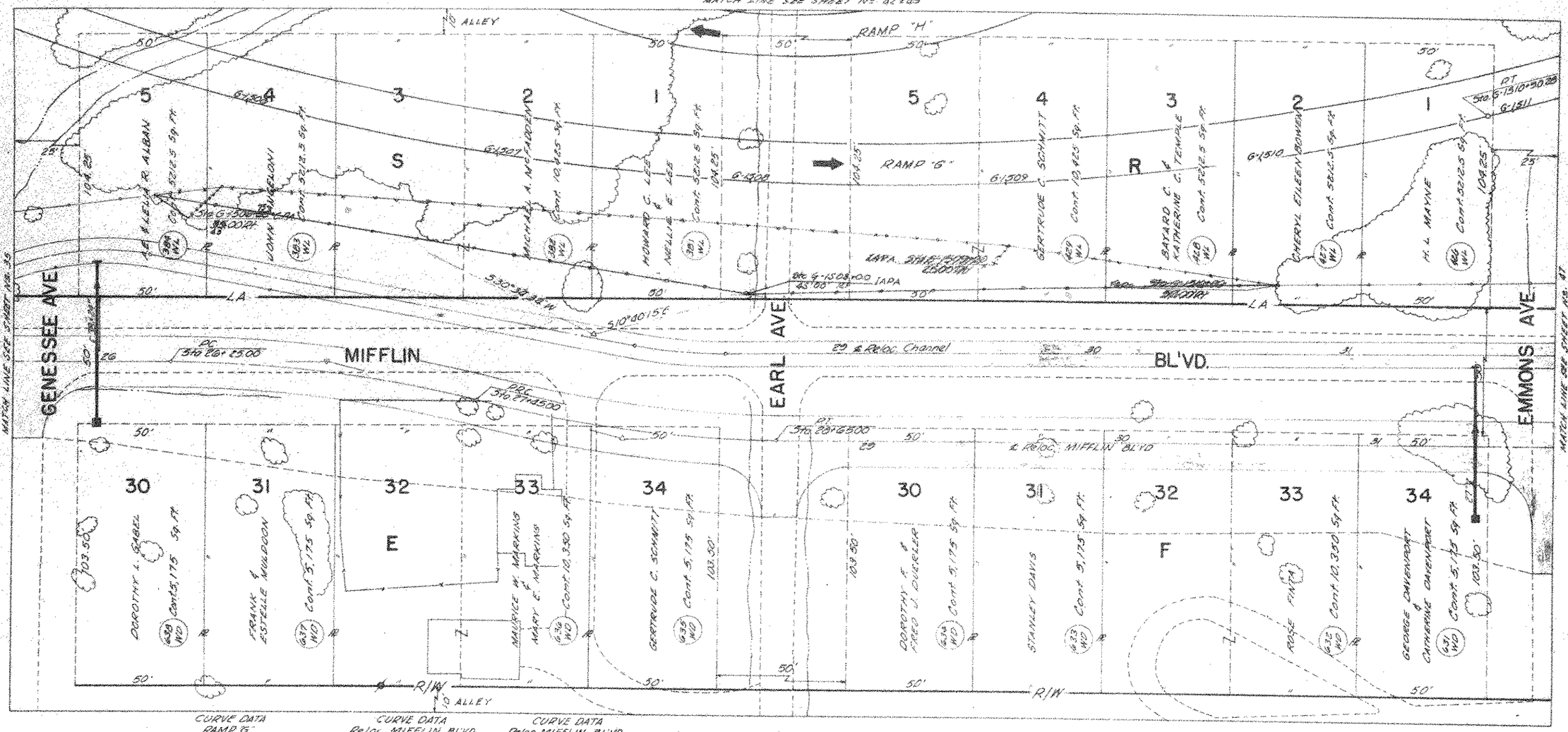
TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.1N., R.17W.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-5(8)

FRA-62-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY



CURVE DATA
RAMP "G"
P.I. Sta. G-1507+62.21
Δ = 41°14'49"
D = 6°00'00"
R = 954.93'
L = 687.45'
T = 359.38'
E = 65.39'

CURVE DATA
Reloc. MIFFLIN BLVD.
P.I. Sta. 26+85.24
Δ = 14°24'00"
D = 12°00'00"
R = 477.46'
T = 60.32'
E = 3.80'
L_c = 120.00'

CURVE DATA
Reloc. MIFFLIN BLVD.
P.I. Sta. 28+05.32
Δ = 14°24'00"
D = 12°00'00"
R = 477.46'
T = 60.32'
E = 3.80'
L_c = 120.00'

LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "R" & "S" PLAT BOOK 18, PAGE 55

LEONARD PARK ADDITION SUBDIVISION
BLOCKS "E" & "F" PLAT BOOK 18, PAGES 18 & 19

Item 607, Type C.L. 605 Lin. Ft.

REV.	DATE	DESCRIPTION
	8-14-70	Revised Fencing Sta. 1506+75 to Sta. 1510+00

TYPE FUND
I

MIFFLIN TWP
SEC 4 U.S.M.L.
T.1N., R.17W.

0 20 40
SCALE IN FEET

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

450

62
81

MATCH LINE SEE SHEET No. 39

GENESSEE AVE.

25' 50' 50' 25' 25' 50' 50' 50' 25'

6 7 8 9 10 11 12 13 14 15 16

RAY A. KESSLER (385 Wl.) Cont. 5875 Sq. Ft.
HAROLD & HAHN (386 Wl.) Cont. 5875 Sq. Ft.
MARY MASSER (387 Wl.) Cont. 5875 Sq. Ft.
HARRY MASSER (388 Wl.) Cont. 5875 Sq. Ft.
MILDRED LOUISE LOVRE (389 Wl.) Cont. 5875 Sq. Ft.
HARRY MASSER (390 Wl.) Cont. 5875 Sq. Ft.
CONT. 2937.5 Sq. Ft. EDGAR R. JOHNSON ETAL (391 Wl.)
HARRY MASSER (392 Wl.) CONT. 8812.5 Sq. Ft.
FRANK A. WALKER (393 Wl.) Cont. 5875 Sq. Ft.
JANET LEEMAN ETAL (394 Wl.) Cont. 5875 Sq. Ft.
HARRY MASSER (395 Wl.) Cont. 5875 Sq. Ft.

RAMP "H"
H-1506
H-1506
H-1506
1500 S. Sewer Construction Ltr. Dwg. 1500
Cut & Gravel

117.50' 117.50'

5' ALLEY 15' ALLEY

MATCH LINE SEE SHEET No. 41

54 53 52 51 50 49 48 47 46 45 44

MARY MASSER (425 Wl.) Cont. 5875 Sq. Ft.
HARRY MASSER (424 Wl.) Cont. 5875 Sq. Ft.
MARY MASSER (423 Wl.) Cont. 5875 Sq. Ft.
ORFL G. LEE & HELEN M. LEE (422 Wl.) Cont. 5875 Sq. Ft.
ORPHA O. & KELLIE B. CAIN (421 Wl.) Cont. 5875 Sq. Ft.
HARRY MASSER (420 Wl.) Cont. 5875 Sq. Ft.
DELMONT O. ROSE & HILDA ROSE (418 Wl.) Cont. 5875 Sq. Ft.
EILEEN L. COHEN & BERTHA E. RINGER (419 Wl.) Cont. 5875 Sq. Ft.
CLINTON S. KYLE & NANCY E. KYLE (417 Wl.) Cont. 5875 Sq. Ft.
MILDRED L. SIEGWORTH & MARJORIE E. PERRYMAN (416 Wl.) Cont. 5875 Sq. Ft.
HARRY MASSER (415 Wl.) Cont. 5875 Sq. Ft.

H-1506
H-1506
H-1506

117.50' 117.50'

50' 50' 50' 50' 50' 50' 50' 50' 50' 50' 50'

25' 25'

EARL AVE.

MATCH LINE SEE SHEET No. 43

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "S" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.1N., R.17W.

0 20 40
SCALE IN FEET

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

441

33
91

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

MATCH LINE SEE SHEET NO. 40

GENNESSEE AVE.

EARL AVE.

MATCH LINE SEE SHEET NO. 42

MATCH LINE SEE SHEET NO. 44

MATCH LINE SEE SHEET NO. 38

RAMP "D"

RAMP "H"

H-1492

15' ALLEY

17 18 19 20 21 22 23 24 25 26 27

43 42 41 40 39 38 37 36 35 34 33

WILLIAM R. & BRODIE O. BOWMAN — Cont. 5875 Sq. Ft. — 396 WL

HAROLD W. JERMAN & ELLAWY JERMAN — Cont. 5875 Sq. Ft. — 395 WL

STATE OF OHIO (LOLA E. HERMAN) — Cont. 2685 Sq. Ft.

ROBERT R. WESTCOTT & LUCILLE P. WESTCOTT — Cont. 2400 Sq. Ft. — 398 WL

STATE OF OHIO (ROBERT R. & LUCILLE P. WESTCOTT) — Cont. 2685 Sq. Ft. — 111 WL

STATE OF OHIO (JACOB L. & KATHRYN (JEAN WARNER) — Cont. 5875 Sq. Ft. — 112 WL

STATE OF OHIO (FRANK S. FALL) — Cont. 5875 Sq. Ft. — 113 WL

STATE OF OHIO (KEVA SHAMAN) — Cont. 5875 Sq. Ft. — 114 WL

STATE OF OHIO (CAROLINE W. BOGE) — Cont. 5875 Sq. Ft. — 115 WL

STATE OF OHIO (S.P. HABAN) — (116 WL) Cont. 3400 Sq. Ft.

S.P. HABAN — Cont. 2925 Sq. Ft. — 390 WL

EVA KING — Cont. 5875 Sq. Ft. — 400 WL

HERBERT K. FRUSKE — Cont. 5875 Sq. Ft. — 401 WL

VICTOR M. & ANNA K. BRECKLER — Cont. 5875 Sq. Ft. — 402 WL

HARRY MASSER — Cont. 11,750 Sq. Ft. — 414 WL

Cont. 11,750 Sq. Ft. — 120 WL

VIRGIL E. BELL & VADA P. GLECKLER — Cont. 5875 Sq. Ft. — 403 WL

DANIEL F. OBERDICK — Cont. 5875 Sq. Ft. — 404 WL

RUTH L. KERN — Cont. 5875 Sq. Ft. — 417 WL

HARRY MASSER — Cont. 11,750 Sq. Ft. — 410 WL

ASA T. PRICE — Cont. 5875 Sq. Ft. — 409 WL

HARRY FISH — Cont. 5875 Sq. Ft. — 420 WL

STATE OF OHIO (CHARLES & SOURS & CONSTRUCTION)

MATCH LINE SEE SHEET NO. 36

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "S" PLAT BOOK 18, PAGE 55

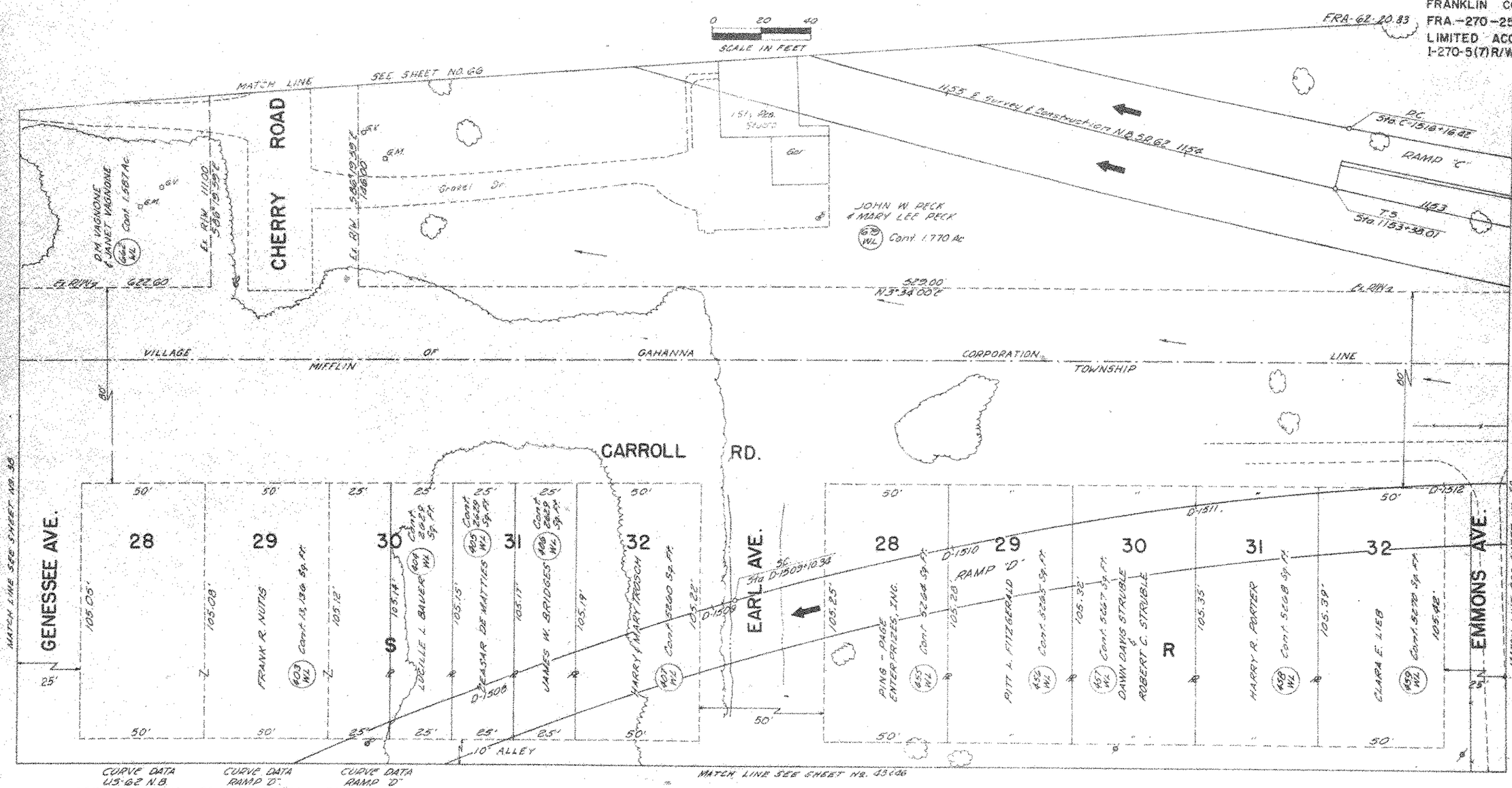
REV	DATE	DESCRIPTION
	3-3-70	New Owner Parcel 397 WL

TYPE FUND
I

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(8)	

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T. IN., R. 17 W.



CURVE DATA
US-62 N.B.
P.I. Sta. 1156+05.10
L = 400.00'
D = 5°00'00"
R = 1145.92'
θ = 10°00'00"
P = 5.81'
K = 199.80'
x = 398.78'
Y = 23.22'
L.T. = 267.09'
S.T. = 133.72'
L.C. = 399.46'

CURVE DATA
RAMP "D"
P.I. Sta. D-1507+77.35
L = 400.00'
D = 4°30'00"
R = 1273.24'
θ = 9°00'00"
P = 5.23'
K = 199.84'
x = 399.01'
Y = 20.91'
L.T. = 267.01'
S.T. = 133.65'
L.C. = 399.56'

CURVE DATA
RAMP "D"
P.I. Sta. D-1517+42.08
Δ = 66°18'32"
D = 4°30'00"
R = 1273.24'
L = 1473.53'
T = 831.74'
E = 247.59'

LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "R" & "S" PLAT BOOK 18, PAGE 55

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.IN., R.17W.

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP
SEC. 4 U.S.M.L.
T 1N., R 17 W.

0 20 40
SCALE IN FEET

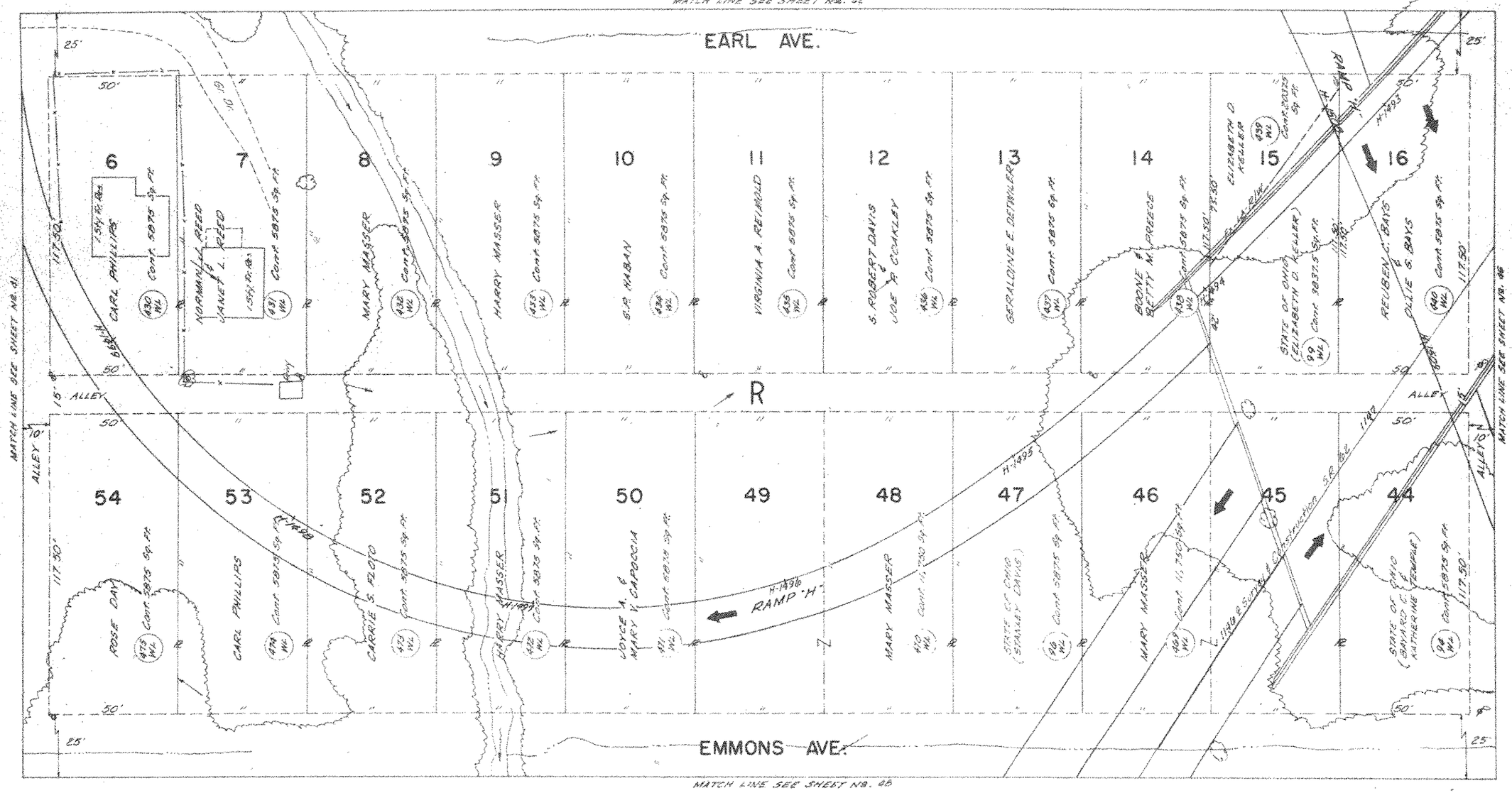
MATCH LINE SEE SHEET No. 42

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)0	

463
45
21

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62-20.83



MATCH LINE SEE SHEET No. 46

MATCH LINE SEE SHEET No. 41

MATCH LINE SEE SHEET No. 45

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "R" PLAT BOOK 18, PAGE 55

REV	DATE	DESCRIPTION

TYPE FUND
I

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-5(18)

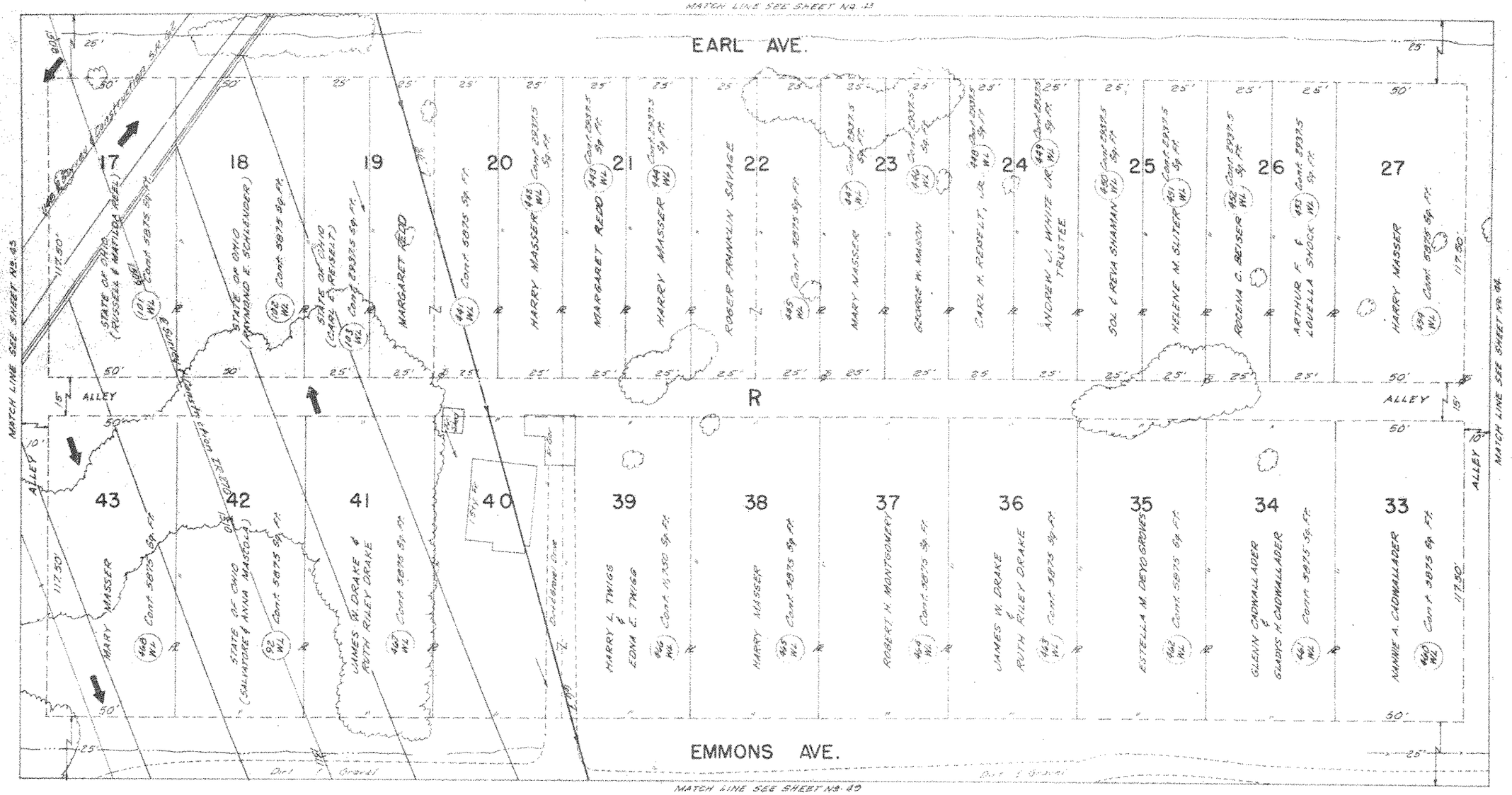
FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39 N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MIFFLIN TWP
SEC. 4 U.S.M.L.
T.1N., R.17 W.

0 20 40
SCALE IN FEET

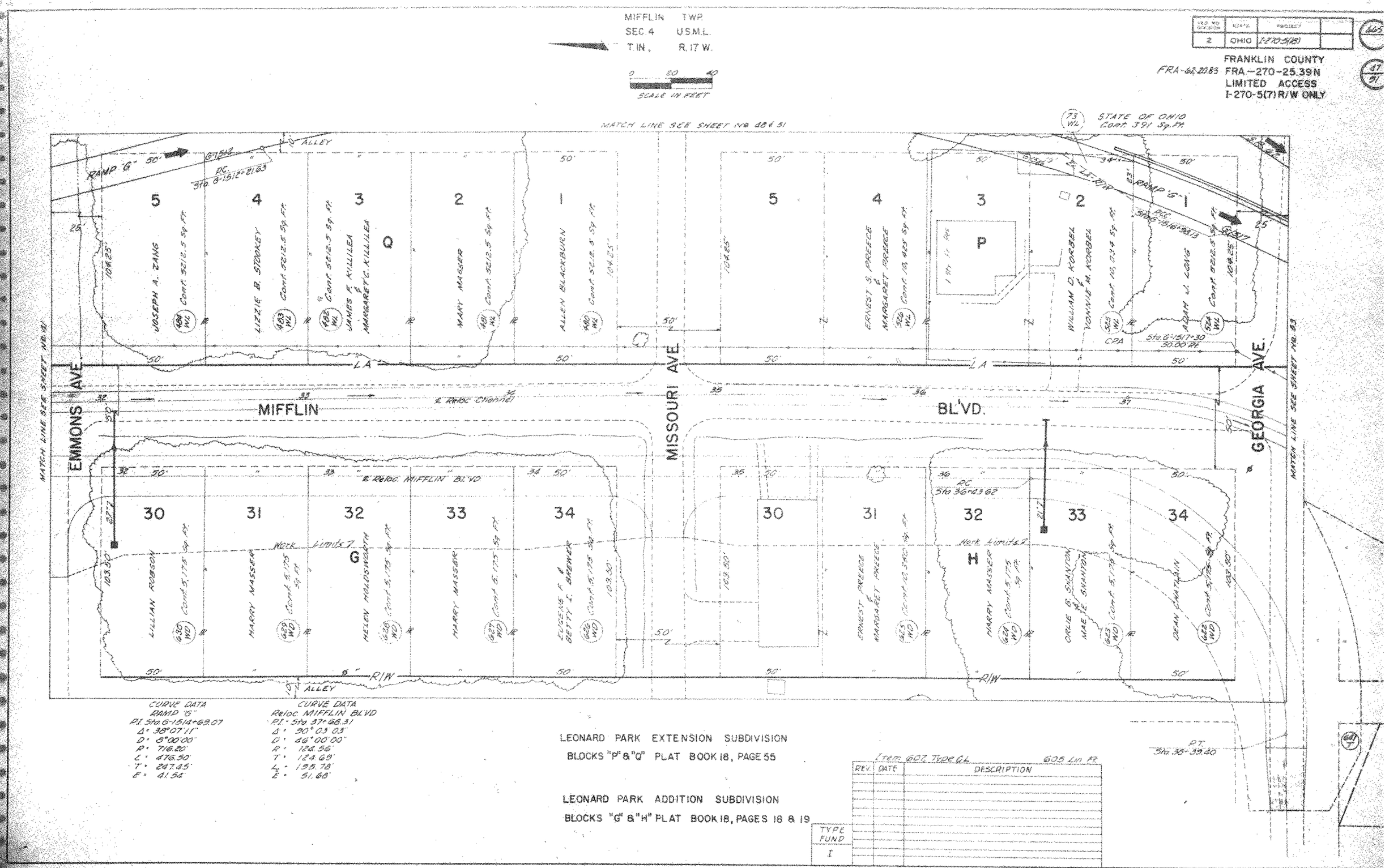
MATCH LINE SEE SHEET NO. 43



LEONARD PARK EXTENSION SUBDIVISION
BLOCK "R" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I



MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.IN., R.17 W.
0 20 40
SCALE IN FEET
2 OHIO I-270-5(18)
FRANKLIN COUNTY
FRA-62.20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
MATCH LINE SEE SHEET No. 48 & 51
STATE OF OHIO
Cont. 391 Sq. Ft.
RAMP "G"
ALLEY
JOSEPH A. ZANG
LIZZIE B. STOOKEY
JAMES F. KILLILEA & MARGARET C. KILLILEA
MARY MASSER
ALLEN BLACKBURN
ERNEST S. PREECE & MARGARET PREECE
WILLIAM D. KORBEL & YOHNIE M. KORBEL
ADAH J. LONG
CPA
Sta. G-1517+30
50.00' Rt.
EMMONS AVE
MIFFLIN
MISSOURI AVE
BL'VD.
GEORGIA AVE.
℄ Reloc. Channel
℄ Reloc. MIFFLIN BL'VD
Work Limits
LILLIAN ROBSON
HARRY MASSER
HELEN HOLDSWORTH
EUGENE F. & BETTY L. BREWER
ERNEST PREECE & MARGARET PREECE
HARRY MASSER
ORLIE B. SHANTON & MAE E. SHANTON
DEAN CHATLAIN
R/W
P.T.
Sta. 38+39.40
CURVE DATA
RAMP "G"
P.I. Sta. G-1514+69.07
Δ = 38°07'11"
D = 8°00'00"
R = 716.20'
L = 476.50'
T = 247.45'
E = 41.54'
CURVE DATA
Reloc. MIFFLIN BL'VD
P.I. = Sta. 37+68.31
Δ = 90°03'03"
D = 46°00'00"
R = 124.56'
T = 124.69'
L = 198.78'
E = 51.68'
LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "P" & "Q" PLAT BOOK 18, PAGE 55
LEONARD PARK ADDITION SUBDIVISION
BLOCKS "G" & "H" PLAT BOOK 18, PAGES 18 & 19
Item 607, Type GL
605 Lin. Ft.
REV. DATE DESCRIPTION
TYPE FUND
I

MIFFLIN TWP
SEC 4 U.S.M.L.
T.IN., R.17W.

0 20 40
SCALE IN FEET

FED. HWY DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MAJOR LINE SEE SHEET NO. 45

EMMONS AVE.

6 — ROBERT L. NEFF (485 WL) Cont. 5875 Sq. Ft.
7 — ROBERT O. BLACKWOOD (486 WL) Cont. 5875 Sq. Ft.
8 — ARTHUR BENNETT (487 WL) Cont. 5875 Sq. Ft.
9 — GRANVILLE M. MORGAN (488 WL) Cont. 5875 Sq. Ft.
10 — STATE OF OHIO (CAROLINE E. EASTMAN) (86 WL) Cont. 5875 Sq. Ft.
11 — Q
12 — STATE OF OHIO (HOWARD E. ANDERSON) (87 WL) Cont. 11,750 Sq. Ft.
13 — MARY MASSER (489 WL) Cont. 5875 Sq. Ft.
14 — MARY MASSER (490 WL) Cont. 5875 Sq. Ft.
15 — STATE OF OHIO (A.G. SHAW) (90 WL) Cont. 5875 Sq. Ft.
16 — STATE OF OHIO (JOHN O. & IRENE C. STEWART) (91 WL) Cont. 5875 Sq. Ft. 117.50'

ALLEY

54 — ALLEN & ESTARAH BLACKBURN (522 WL) Cont. 5875 Sq. Ft. 15Sq. Ft. Res.
53 — ALLEN BLACKBURN & Garage (521 WL) Cont. 5875 Sq. Ft.
52 — (520 WL) Cont. 5875 Sq. Ft. ALLEN & ESTARAH BLACKBURN (15Sq. Ft. Res.)
51
50 — HARRY MASSER (519 WL) Cont. 19,625 Sq. Ft.
49
48 — MARY MASSER (518 WL) Cont. 5875 Sq. Ft.
47 — STATE OF OHIO (CAMERON W. & HELEN B. MAYS) (82 WL) Cont. 5875 Sq. Ft.
46 — MARY MASSER (517 WL) Cont. 5875 Sq. Ft.
45 — HOWARD J. & CLAUDIA S. WALKER (516 WL) Cont. 5875 Sq. Ft.
44 — ANTOINETTE LE DONNA (515 WL) Cont. 5875 Sq. Ft. 117.50'

ALLEY

MATCH LINE SEE SHEET NO. 43

(85 WL) STATE OF OHIO (ALLEN & ESTARAH BLACKBURN) Cont. 6,402 Sq. Ft.

MISSOURI AVE.

MATCH LINE SEE SHEET NO. 51

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "Q" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

467

FRA-62-20.83

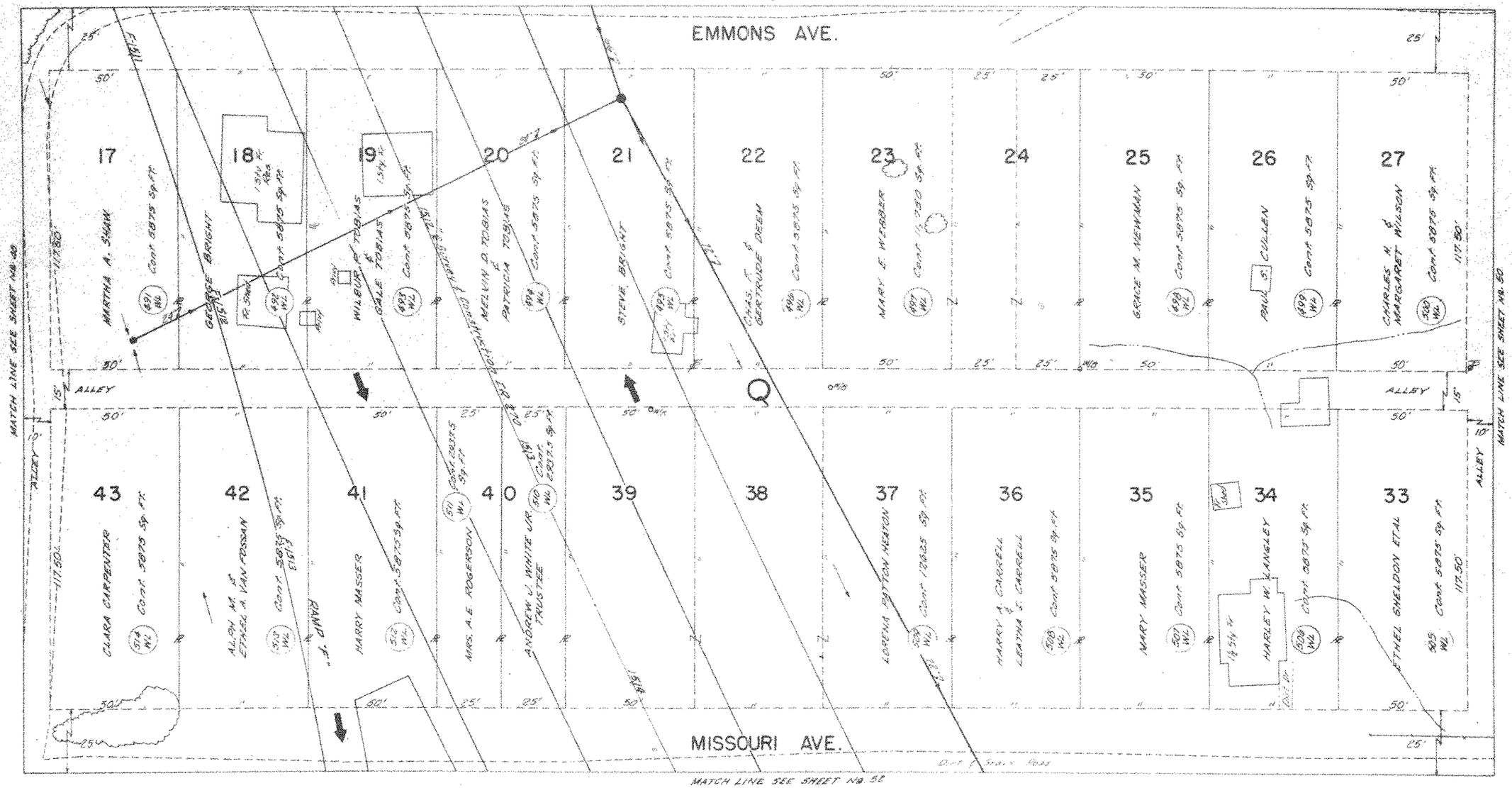
FRANKLIN COUNTY
FRA.—270—25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

49/91

MIFFLIN TWP
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

0 20 40
SCALE IN FEET

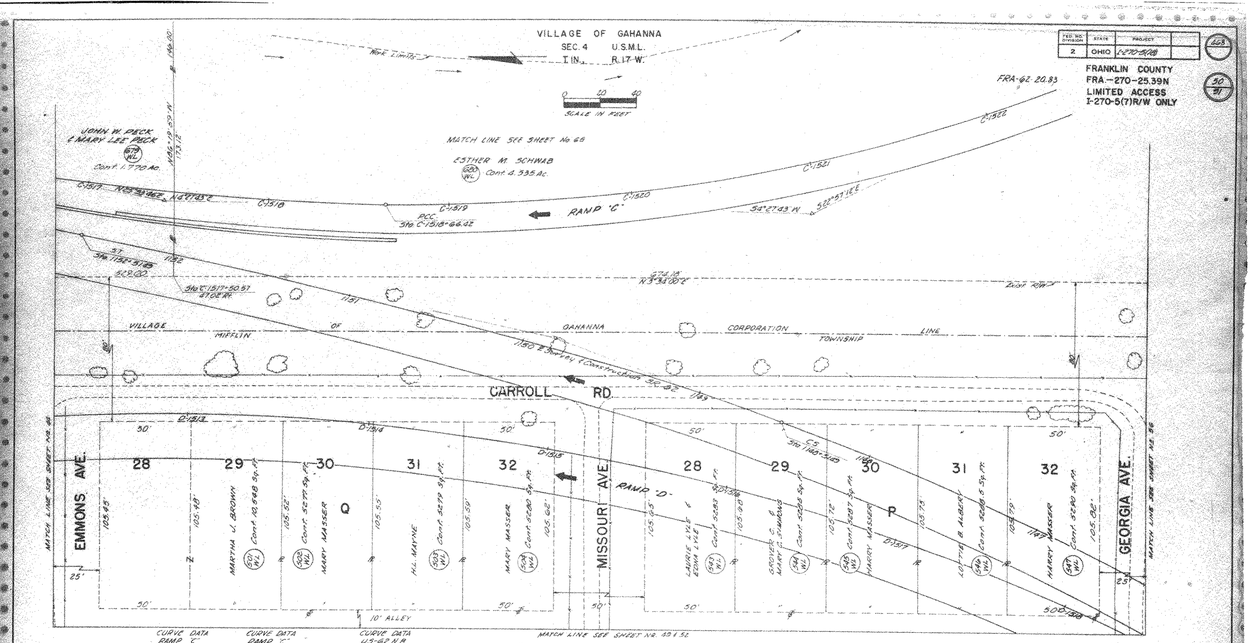
MATCH LINE SEE SHEET NO. 46



LEONARD PARK EXTENSION SUBDIVISION
BLOCK "Q" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I



CURVE DATA
RAMP "C"
P.I. Sta. C-1520+99.35
Δ = 27°24'53"
D = 6°00'00"
R = 954.93'
L = 456.92'
T = 232.92'
E = 28.00'

CURVE DATA
RAMP "C"
P.I. Sta. C-1517+41.74
Δ = 10°00'00"
D = 4°00'00"
R = 1432.39'
L = 250.00'
T = 125.92'
E = 5.47'

CURVE DATA
U.S.-62 N.B.
P.I. Sta. 1149+85.05
L = 400.00'
D = 3°50'00"
R = 1494.67'
Q = 7°40'00"
P = 4.46'
K = 199.88'
Y = 399.28'
Y = 17.82'
L.T. = 266.92'
S.T. = 133.56'
L.C. = 399.68'

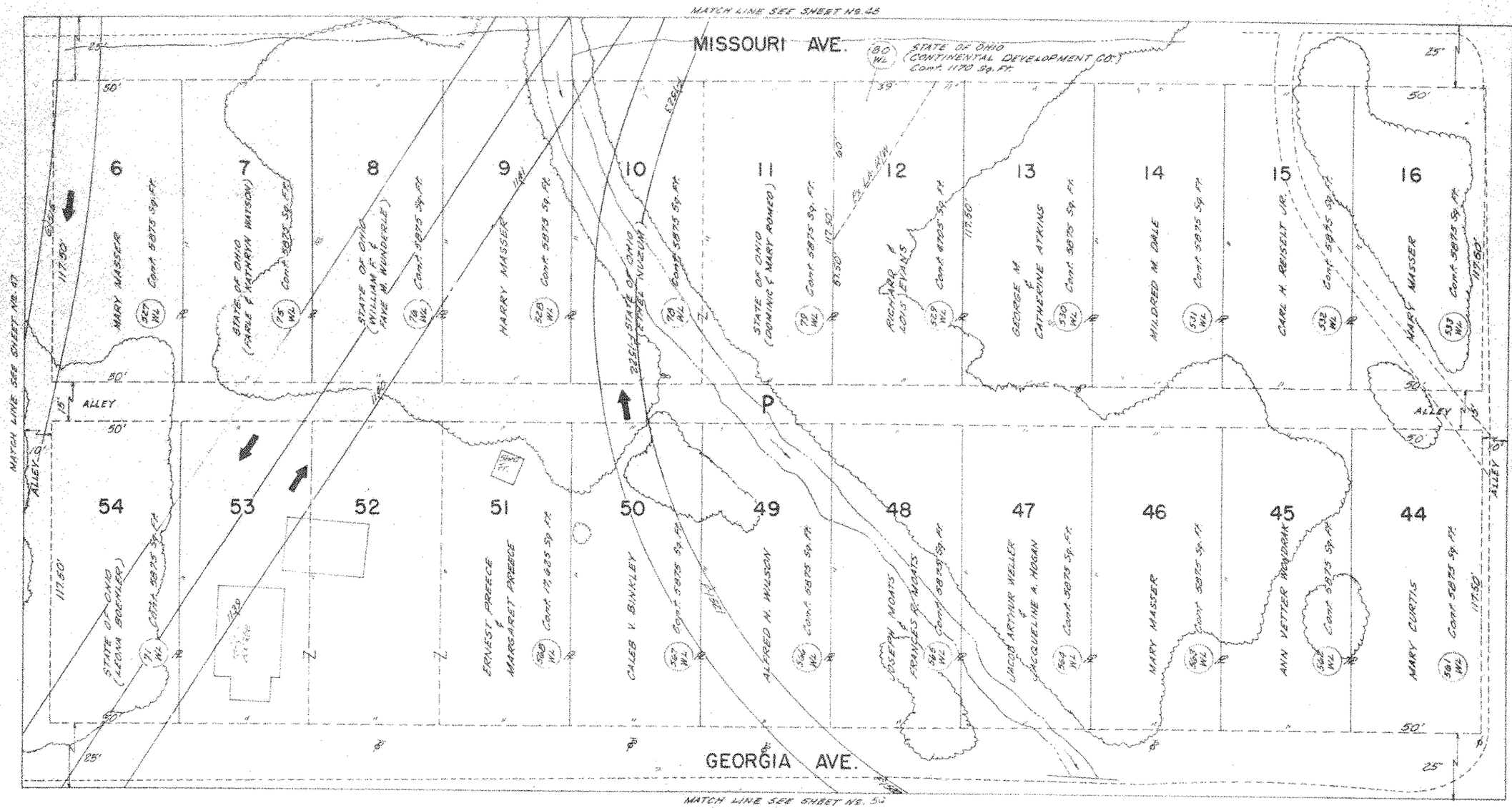
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20-83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MIFFLIN TWP.
SEC 4 U.S.M.L.
T 1N., R. 17 W.

0 20 40
SCALE IN FEET



LEONARD PARK EXTENSION SUBDIVISION
BLOCK "P" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP.
SEC 4 U.S.M.L.
T.1N., R.17 W.

0 80 160
SCALE IN FEET

MATCH LINE SEE SHEET NO. 49

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

FRA-62-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

478
52
91

MISSOURI AVE.

Dirt & Gravel Drive

Dirt & Gravel

MATCH LINE SEE SHEET NO. 51

MATCH LINE SEE SHEET NO. 50

17 JOHN H. & CLYDE M. SPRENGER Conf. 5875 Sq. Ft. 534 WL — 117.50'

18 LEONA STICKNEY Conf. 5875 Sq. Ft. 535 WL — Fr. Shed

19 M. GLADYS EMERSON Conf. 5875 Sq. Ft. 536 WL — 117.50'

20 MARY MASSER Conf. 11,750 Sq. Ft. 537 WL

21

22 MARJORIE PEARL RAGER Conf. 5875 Sq. Ft. 538 WL

23 HARRY MASSER Conf. 5875 Sq. Ft. 539 WL

24 MARY MASSER Conf. 5875 Sq. Ft. 540 WL

25 BLANCHE MARIE MCMURRAY Conf. 5875 Sq. Ft. 541 WL

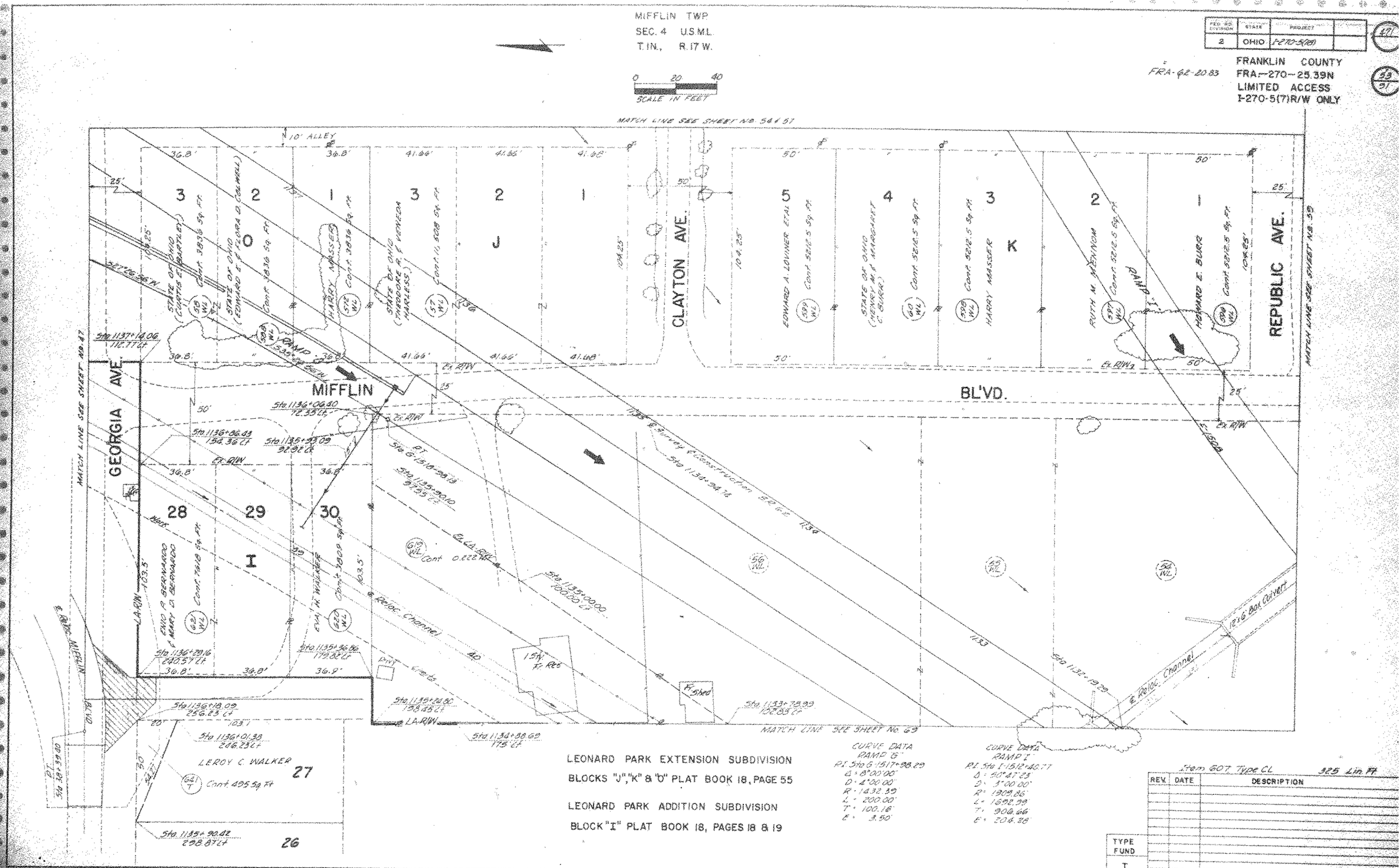
26 EDNA LYLE Conf. 11,750 Sq. Ft. 542 WL

27 117.50'

50' 25' 50' 15' ALLEY 15' 50' 25' 10'

P

25' 25' 25' 25' 25' 50' 50' 50



LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "J", "K" & "O" PLAT BOOK 18, PAGE 55

LEONARD PARK ADDITION SUBDIVISION
BLOCK "I" PLAT BOOK 18, PAGES 18 & 19

CURVE DATA
RAMP 'G'
P.I. Sta G-1517+98.29
Δ = 8°00'00"
D = 4°00'00"
R = 1432.39'
L = 200.00'
T = 100.16'
E = 3.50'

CURVE DATA
RAMP 'I'
P.I. Sta I-1512+40.77
Δ = 50°47'23"
D = 3°00'00"
R = 1909.86'
L = 1692.99'
T = 906.66'
E = 204.28'

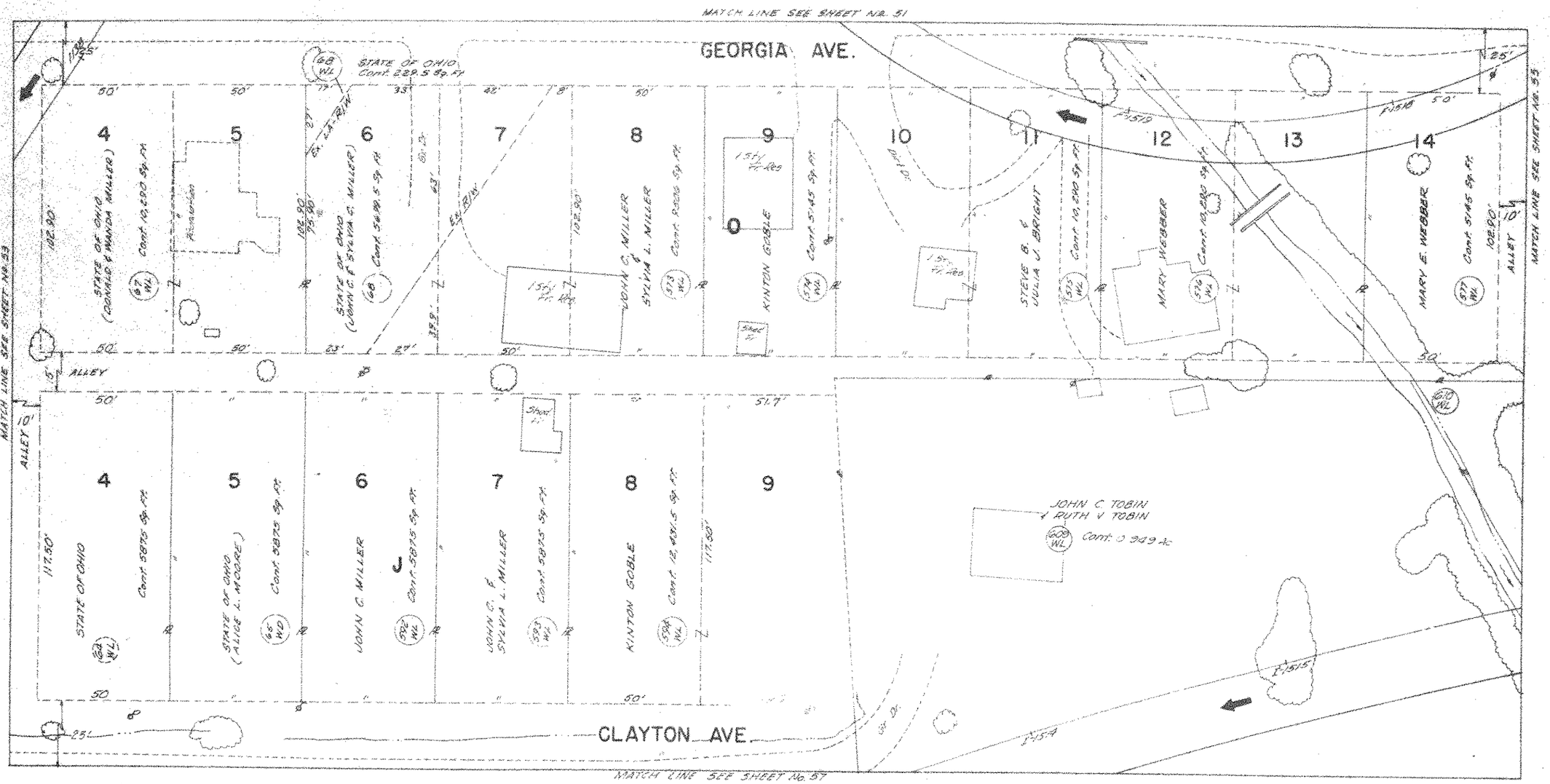
MIFFLIN TWP.
SEC 4 U.S.M.L.
T.1N., R.17W.

0 20 40
SCALE IN FEET

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(6)	

FRA-62-2083

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY



LEONARD PARK EXTENSION SUBDIVISION
BLOCKS "J" & "O" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

0 20 40
SCALE IN FEET

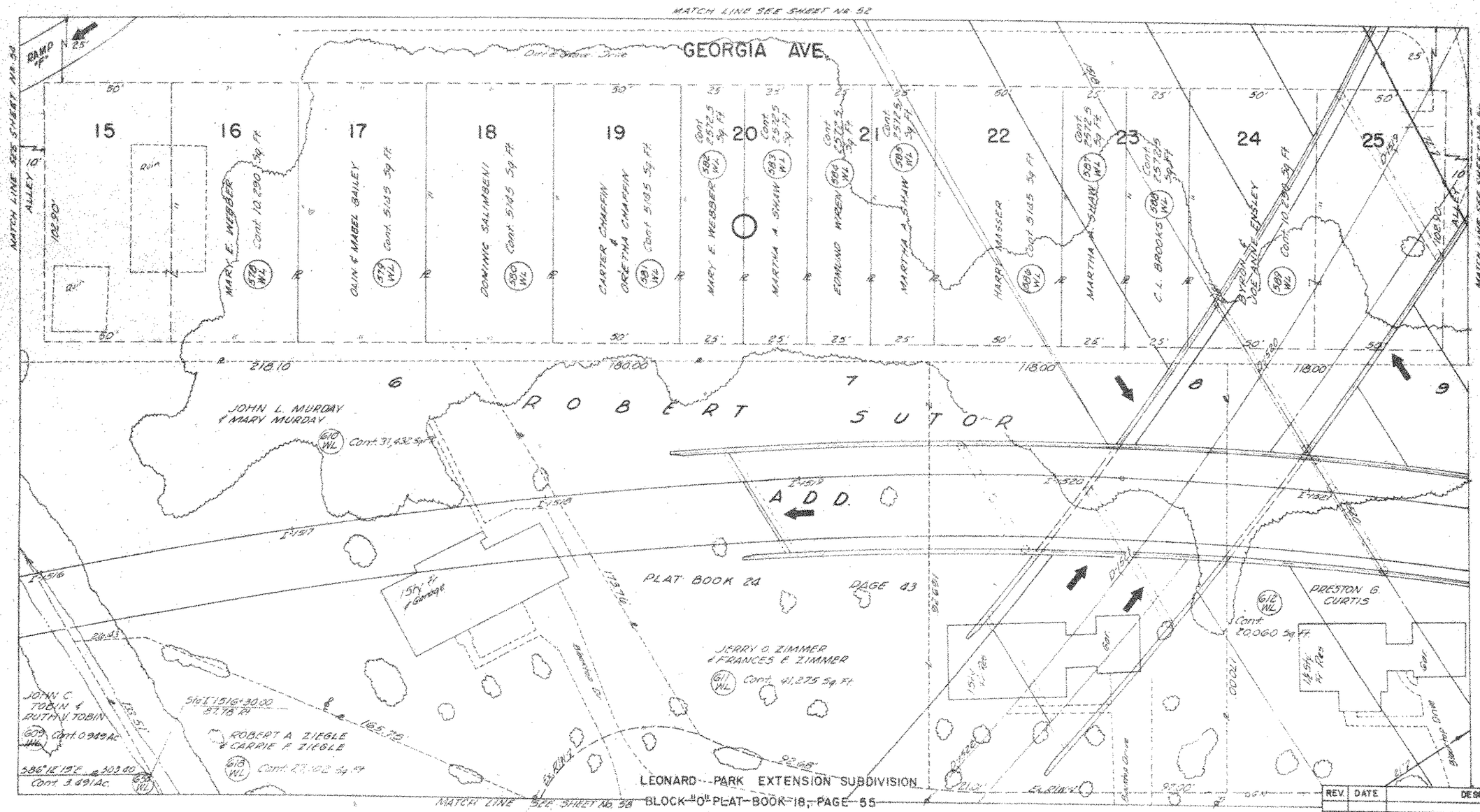
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

473

FRA-62-28.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

55/91



LEONARD PARK EXTENSION SUBDIVISION
BLOCK "O" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

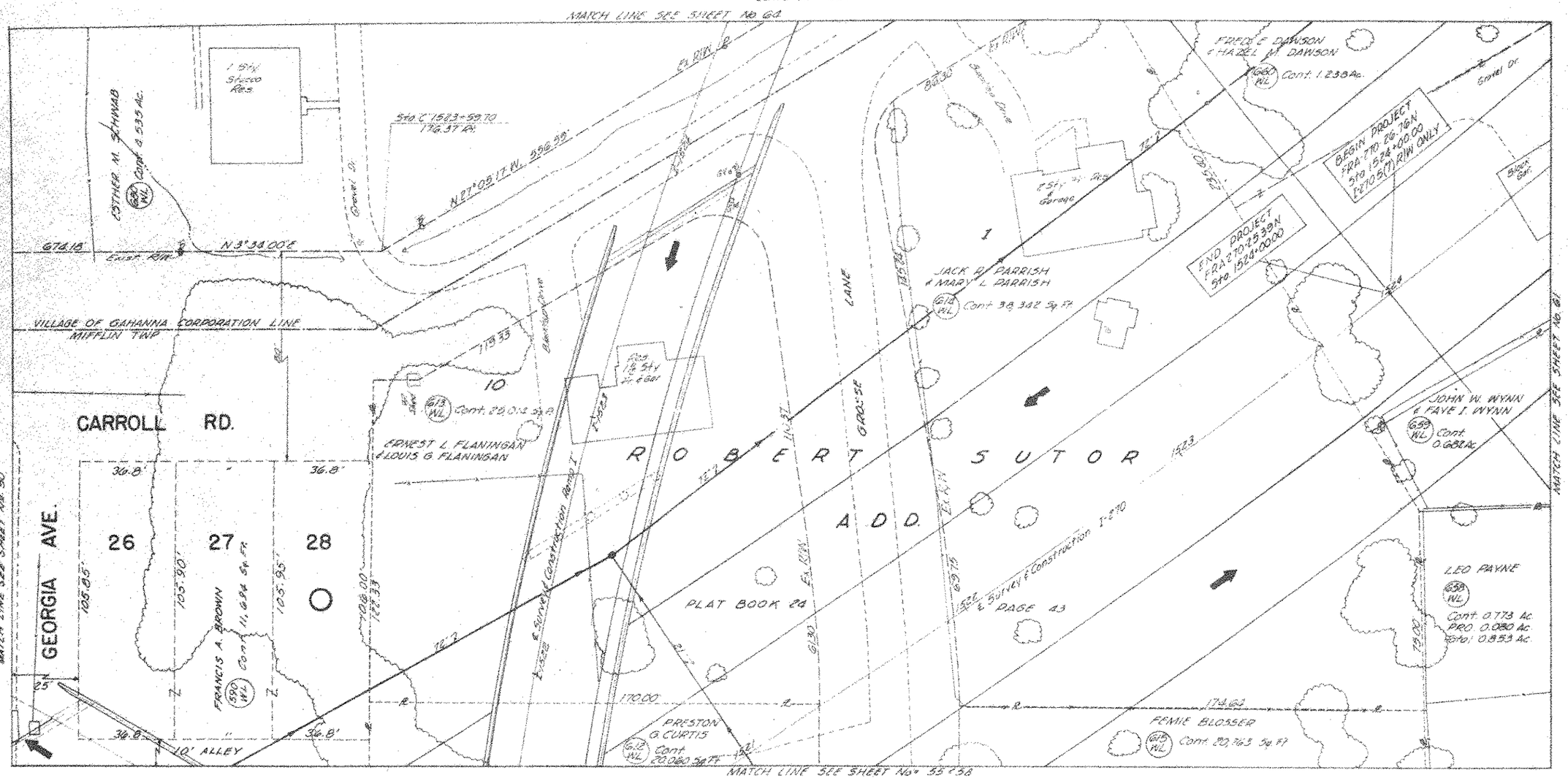
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

0 20 40
SCALE IN FEET



LEONARD PARK EXTENSION SUBDIVISION
BLOCK 'O' PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

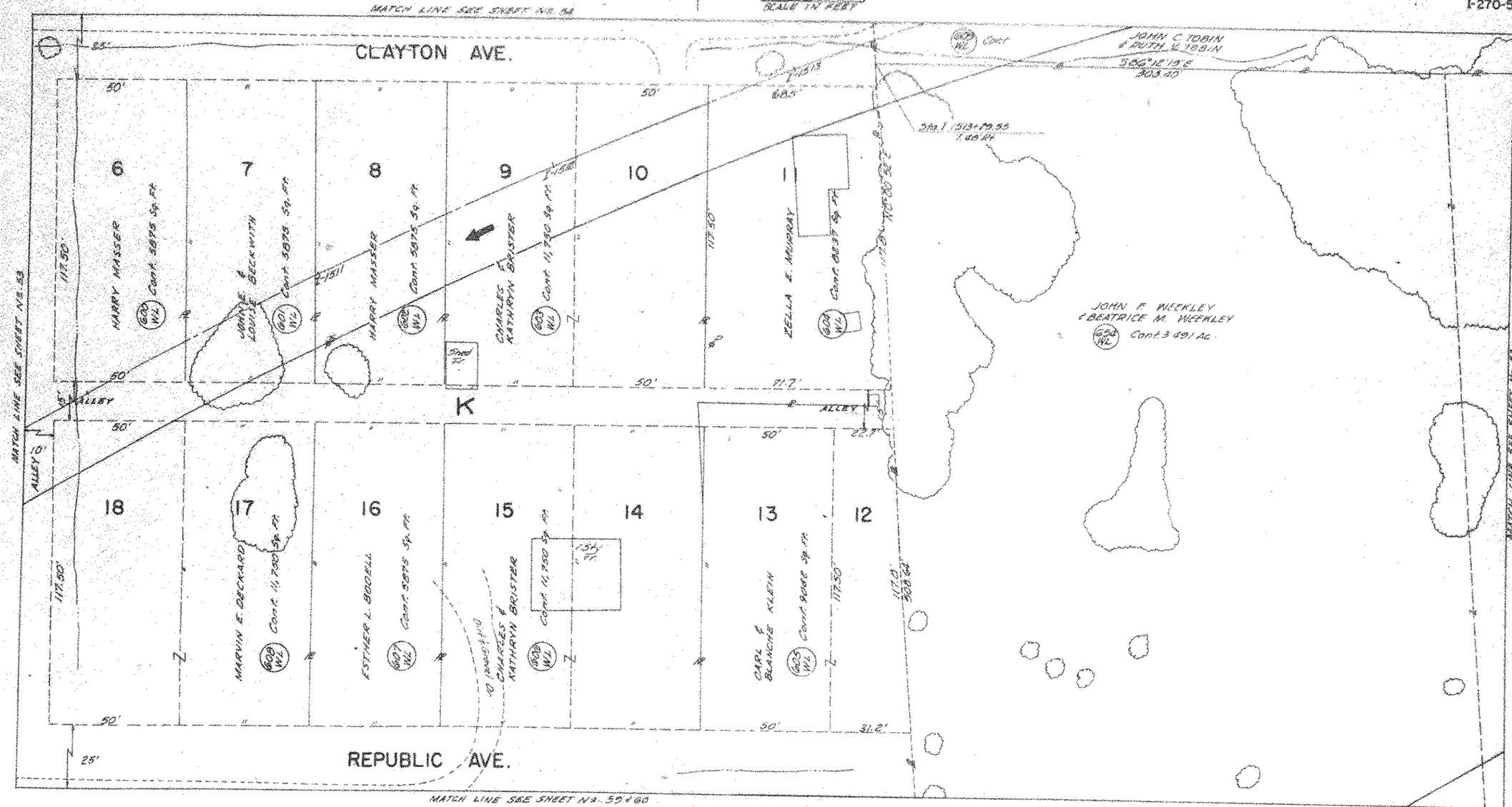
TYPE FUND
I

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T. IN., R. 17 W.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-5(8)

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY



LEONARD PARK EXTENSION SUBDIVISION
BLOCK "K" PLAT BOOK 18, PAGE 55

REV.	DATE	DESCRIPTION

TYPE FUND
I

CURVE DATA
U.S.-62 N.B.
P.I. Sta 1138+11.64

L = 400.00'
D = 3°50'00"
R = 1494.67'
Θ = 7°40'00"
P = 4.46'
K = 199.88'
x = 399.28'
y = 17.88'
LT = 266.92'
ST = 133.56'
LC = 399.68'

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.1N., R.17W.

0 20 40
Scale in Feet

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(29)	

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

47
50
91

MATCH LINE SEE SHEET No. 55

JOHN F. WEEKLEY
& BEATRICE M. WEEKLEY
(624 WL) Cont. 3.491 Ac.

Sta. 1 1516+43.88
111.50 Rt.

Sta. 1 1516+47.09
117.88 Rt.

ROBERT A. ZIEGLE
& CARRIE F. ZIEGLE
(618 WL) Cont. 67,102 Sq. Ft.

S 26°13'53" E 133.54'

S 29°31'05" E 418.41'

N 29°31'05" W 395.16'

S 60°28'55" W 201.20'

S 29°31'05" E 175.82'

S 60°28'55" W 135.80'

N 29°31'05" W 238.05'

N 60°28'55" E 140.00'

S 60° 1139+22.72

140

US-62 N.B.

Construction 15+62.18

Survey ℄

Garage

1 Sty. Fr. Res.

Barbed Wire

Conc. Drive

Conc. Walk

Gravel Drive

Asph. Drive

MB

GROSSE LANE

DSM
DBV
5 MB

DSM
DBV
6 MB

DSM 97.00

6 MB
6 MB
118.00

Ex. R/W

Split-Level Fr. Res.

1½ Sty. Fr. Res.

1½ Fr. Gar.

ROBERT SUTOR ADD.

PLAT BOOK 20

PAGE 43

WILLIAM J. BRISTER
& MARY L. BRISTER
(617 WL) Cont. 20,006 Sq. Ft.

ORIN R. MATHEWS
& HELEN L. MATHEWS
(616 WL) Cont. 21,058 Sq. Ft.

FEMIE BLOSSER
(615 WL) Cont. 20,763 Sq. Ft.

BRUCE W. ROE
& DONNA J. ROE
(653 WL) Cont. 0.603 Ac.

Sta. E 1520+07.84
185.61 Lt.

(650 WL)

148.92

118.03

(MEASURED ~ 351.1 DEED)

118.03

FORREST L. DUNLAP
& DORA C. DUNLAP
(657 WL) Cont. 2.264 Ac.
PRC. 0.070 Ac.
Total 2.334 Ac.

15H Stone Wall

MATCH LINE SEE SHEET No. 60 & 61

MATCH LINE SEE SHEET No. 56

MATCH LINE SEE SHEET No. 57

REV.	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP
SEC 4 U.S.M.L.
T.1N., R.17W.

0 20 40
SCALE IN FEET

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

FRANKLIN COUNTY
FRA-62-20.85 FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

477
59
91

8

MATCH LINE SEE SHEET No. 53

MATCH LINE SEE SHEET No. 57

REPUBLIC AVE.

Ex. R/W 34.3'

VEDA JUSTICE
Cont. 0.433 Ac

WALTER H. CULBERTSON (38.03.62)
Cont. 0.100 Ac.

EDWARD CONLEY & MARIE CONLEY
Cont. 0.287 Ac.

HARRY MASSER
Cont. 5,812.5 Sq. Ft.

LEE H. KITSON
Cont. 5,812.5 Sq. Ft.

HARRY MASSER
Cont. 10,425 Sq. Ft.

ISHMAEL R. BURTNETT
Cont. 5,812.5 Sq. Ft.

HARRY & KATHRYN F. MILLER
Cont. 5,812.5 Sq. Ft.

HARRY MASSER
Cont. 5,812.5 Sq. Ft.

JOHN F. & CECILIA KOONTZ
Cont. 5,812.5 Sq. Ft.

HARRY MASSER
Cont. 20,156 Sq. Ft.

EMMA M. CROMWELL
Cont. 5,812.5 Sq. Ft.

ALBERT HOFFNER
Cont. 5,812.5 Sq. Ft.

OTTO J. & ANNA BERGER
Cont. 5,812.5 Sq. Ft.

HARRY MASSER
Cont. 11,150 Sq. Ft.

SAM F. & ETHEL C. WATTON
Cont. 5,812.5 Sq. Ft.

HARRY MASSER
Cont. 5,822 Sq. Ft.

1135 E Survey & Construction S.R. 62 1134
RAMP "E" E-1514 N65°59'22"E & N12°49'07"E E-1515
E-1513
PC Sta 1+81+76.06
ΔD 1+81+42.60
HUDSON AVE.
Ex. Limits
R/W
MATCH LINE SEE SHEET No. 62

CURVE DATA
RAMP E
PI Sta E-1514+46.98
Δ: 6°49'45"
D: 2°00'00"
R: 2864.79'
L: 341.45'
T: 170.93'
E: 5.10

LEONARD PARK EXTENSION SUBDIVISION
BLOCK "L" PLAT BOOK 18, PAGE 55

Item 607 Type CL 201 Lin. Ft.

REV.	DATE	DESCRIPTION

TYPE FUND
I

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(7)R	

478

60/31

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MIFFLIN TWP
SEC. 4 U.S.M.L.
T.1N., R.17W.

0 20 40
Scale in Feet

MATCH LINE SEE SHEET No 57+50

Cont 3.826 Ac.

1138
N65°59.EE E

1137
℄ Survey ℄ Construction U.S.-62 NB

T.S.
Sta 1135+44.72 1136

ACC
Sta E-1516+17.50

E-1516

E-1517

E-1518
℄ Survey ℄ Construction Ramp E

E-1519

E-1520

E-1521

JOHN F WEEKLEY
℄ BEATRICE M. WEEKLEY

Cont 0.503 Ac.

N 78°49'07" E

FORREST L. DUNLAP
℄ DORA E. DUNLAP

Cont 2.244 Ac.
PRO. 0.090 Ac.
TOTAL 2.334 Ac.

Barn

Cont 0.210 Ac.

Sta 1520+91.02
3.31 Rt

Sta E-1519+11.63
49.00 Rt

Sta E-1519+00
49.00 Rt

S 84°34.04" W
102.11

Sta E-1520+16.12 LAPA
49.00 Rt

N 89°51.45" W 292.1

N 00°36.40" W
LA 100.38

BRUCE W. ROE
℄ DONNA J. ROE

Cont 0.149 Ac.

Sta E-1520+16.12
50.00 Rt

Sta E-1521+21.68
50.00 Rt

DUANE G. STEVENS
℄ DOROTHY E. STEVENS

Sta E-1518+00
50.00 Rt

Sta E-1519+11.63
50.00 Rt

℄ Reloc. Channel

Cont 0.522 Ac.
PRO 0.180 Ac.
Total 0.702 Ac. Work Limits Z

Sta E-1515+50.67
39.00 Rt

S 75°57'04" W
LA
239.82

Sta E-1515+50.67
50.00 Rt

Cont 0.516 Ac.

Work Limits Z

RtW

321.38
S 74°59.54" W

180.83
S 85°08.18" W

Sta E-1517+75.06
115.00 Rt

22.97
N 89°50.83" W

Sta E-1519+08.16
115.00 Rt

N 85°03.31" W
72.04

Sta E-1520+19.91
115.00 Rt

Ramp E
Sta 1521+00
115.00 Rt

Sta E-1515+27.96
115.00 Rt

CURVE DATA
US-62 NB
P.I. Sta 1138+11.64

L = 400.00'
D = 3°30.00"
R = 1634.67'
Δ = 7°00.00"
D = 4.36'
K = 199.88'
t = 399.28'
Y = 17.82'
L.T. = 266.92'
S.T. = 133.56'
L.C. = 399.68'

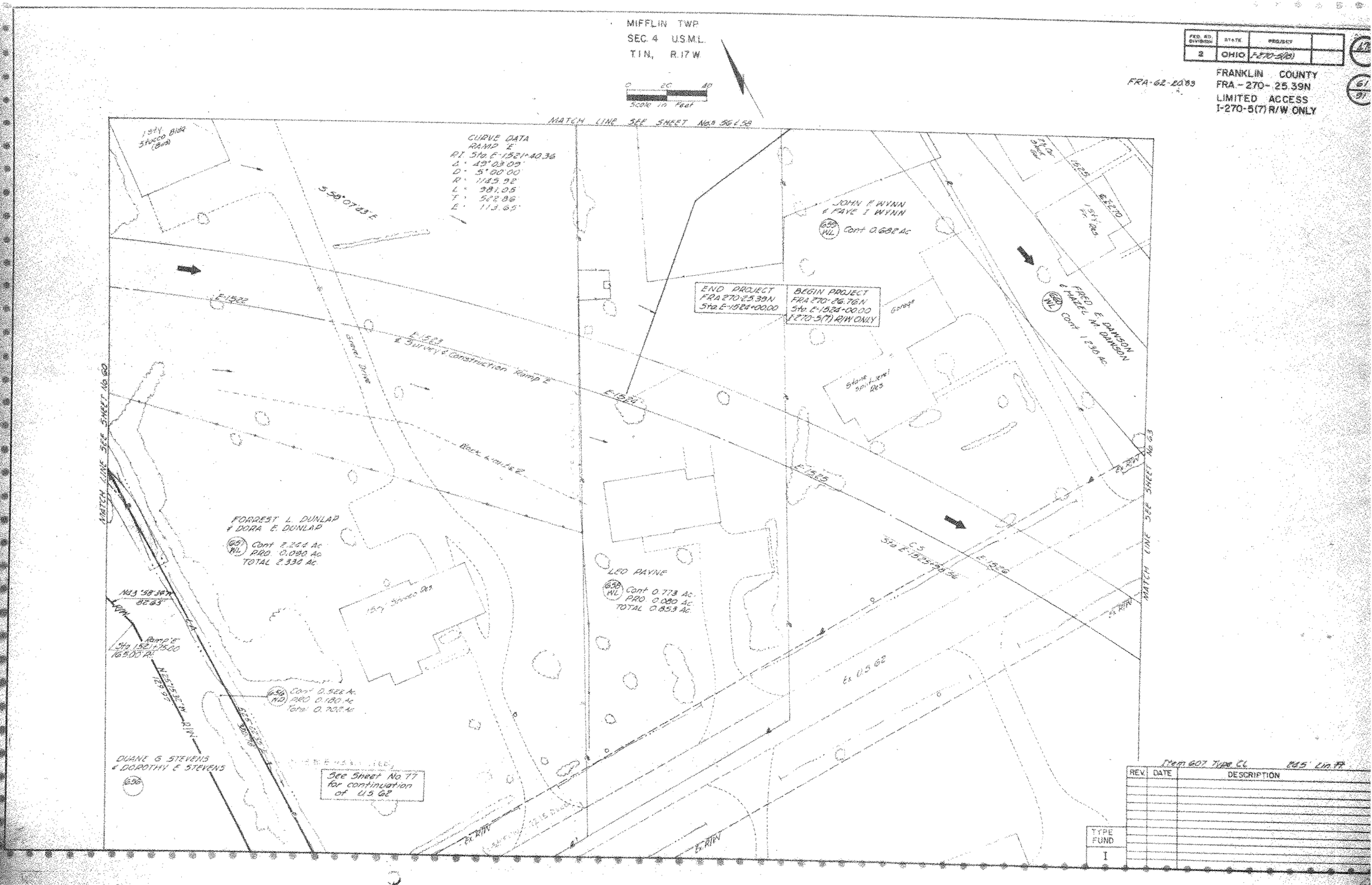
CURVE DATA
RAMP E
P.I. Sta E-1521+40.36
Δ = 49°03.09"
D = 5°00.00"
R = 1145.92'
L = 981.05'
T = 522.86'
E = 113.65'

DENNIS ROE
℄ SALLY ROE

Item 607, Type CL 573 Lin. Ft.

REV.	DATE	DESCRIPTION

TYPE FUND
I



MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.1N, R.17W.
0 20 40
Scale in Feet
FRA-62-20.83
FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
FED. RD. DIVISION 2
STATE OHIO
PROJECT I-270-5(8)
MATCH LINE SEE SHEET Nos 56 & 58
CURVE DATA
RAMP 'E'
P.I. Sta. E-1521+40.36
Δ = 49°03'09"
D = 5°00'00"
R = 1145.92'
L = 981.05'
T = 522.86'
E = 113.65'
S 58°07'23" E
1 Sty. Stucco Bldg (Bus)
JOHN F. WYNN & FAYE I. WYNN
659 WL Cont 0.682 Ac
END PROJECT
FRA 270-25.39N
Sta. E-1524+00.00
BEGIN PROJECT
FRA 270-26.76N
Sta. E-1524+00.00
I-270-5(7) R/W ONLY
Garage
FRED E. DAWSON & HAZEL M. DAWSON
660 WL Cont 1.230 Ac
1 Sty. Res.
E-1522
E-1523
℄ Survey & Construction Ramp E
E-1524
E-1525
E-1526
Gravel Drive
Stone Split Level Res.
Back Limits
MATCH LINE SEE SHEET No 60
MATCH LINE SEE SHEET No 63
FORREST L. DUNLAP & DORA E. DUNLAP
657 WL Cont 2.244 Ac
PRO. 0.090 Ac
TOTAL 2.330 Ac
LEO PAYNE
658 WL Cont 0.773 Ac
PRO. 0.080 Ac
TOTAL 0.853 Ac
1 Sty. Stucco Res.
C.S. Sta. E-1525+98.56
Ex. U.S. 62
Ex. R/W
N43°58'34"W 82.65'
Ramp 'E' Sta. 1521+75.00 165.00' R
656 WD Cont 0.522 Ac
PRO 0.180 Ac
Total 0.702 Ac
DUANE G. STEVENS & DOROTHY E. STEVENS
656
See Sheet No. 77 for continuation of U.S. 62
Item 607 Type C1 845' Lin. Ft.
REV. DATE DESCRIPTION
TYPE FUND
I

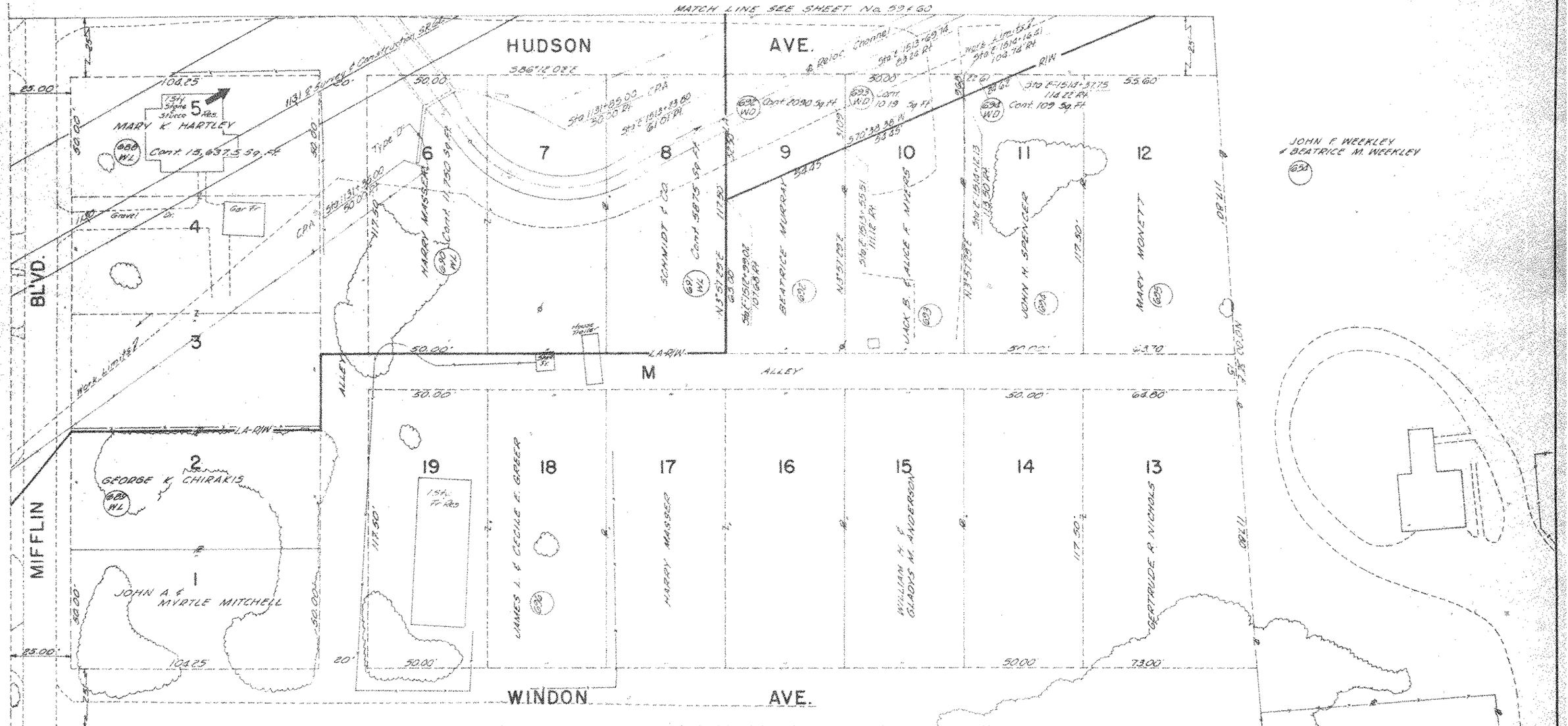
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(18)	

FRA-62-20.83

FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MIFFLIN TWP.
SEC. 4 U.S.M.L.
T.1N., R.17W.

0 20 40
SCALE IN FEET



CURVE DATA
US-62 NB
PI Sta 1130+17.78
L = 300.00
D = 2°00'00"
R = 2864.79'
θ = 3°00'00"
P = 1.31'
K = 149.99'
X = 299.92'
Y = 5.24'
LT = 200.03'
ST = 100.03'
LC = 299.96'

LEONARD PARK EXTENSION SUBDIVISION
BLOCK 'M' PLAT BOOK 18, PAGE 55

Item 607, Type CL 354 Lin. Ft.

REV	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP. & VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T.1 N., R.17 W.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(8)	

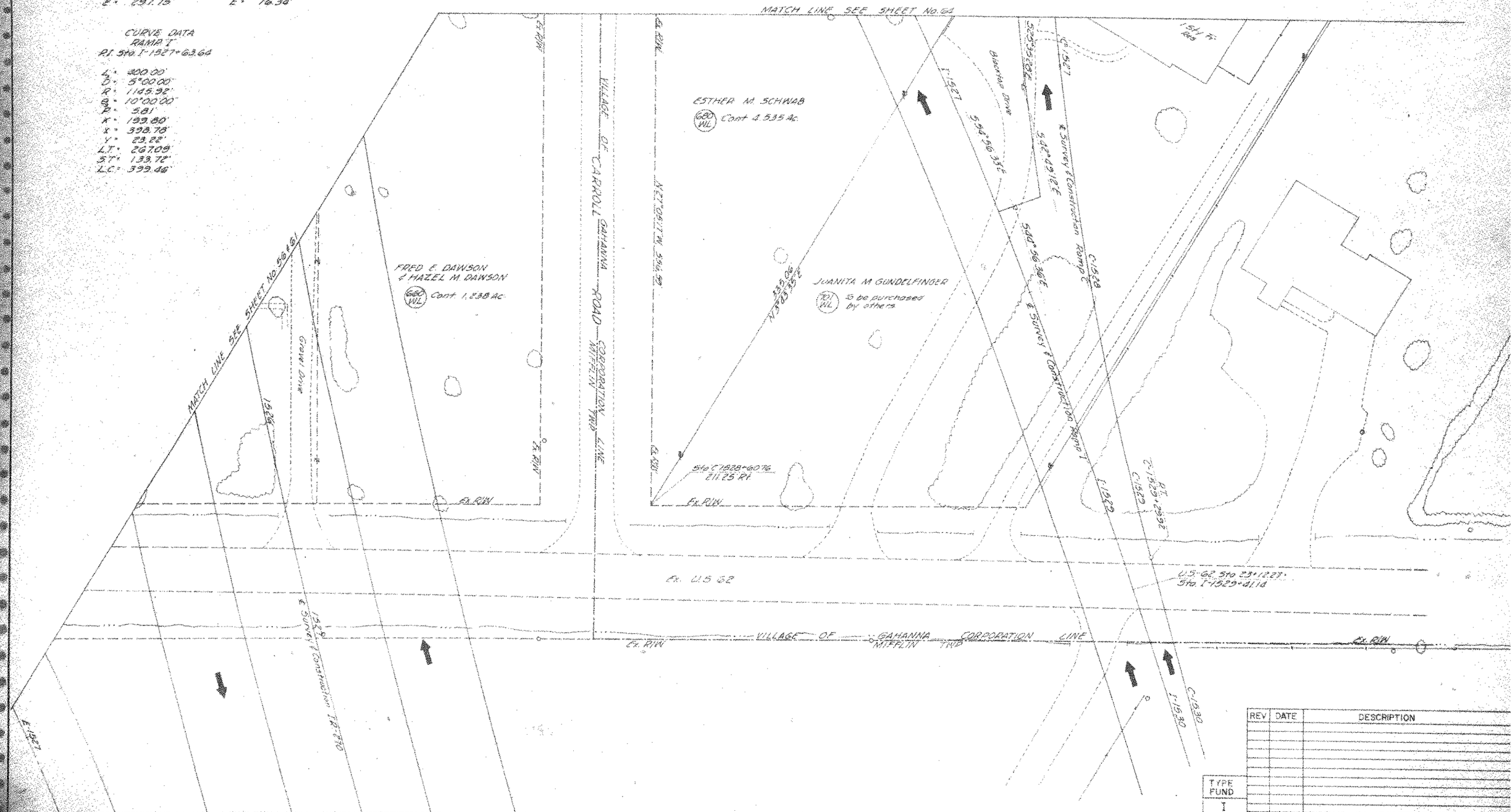
FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

FRA-62+20.83

CURVE DATA
I.R.-270
P.I. Sta. 1534+61.89
Δ = 50°07'25"
D = 2°00'00"
R = 2864.79'
L = 2506.19'
T = 1339.64'
E = 297.75'

CURVE DATA
RAMP "C"
P.I. Sta. C-1527+16.20
Δ = 17°13'44"
D = 4°00'00"
R = 1432.39'
L = 430.72'
T = 217.00'
E = 16.34'

CURVE DATA
RAMP "I"
P.I. Sta. I-1527+63.64
L = 400.00'
D = 5°00'00"
R = 1145.92'
θ = 10°00'00"
P = 5.81'
K = 199.80'
X = 398.78'
Y = 23.22'
L.T. = 267.09'
S.T. = 133.72'
L.C. = 399.46'



REV	DATE	DESCRIPTION

TYPE FUND
I

MIFFLIN TWP & VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T.1 N., R.17 W.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-5(7)R

FRA-62-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

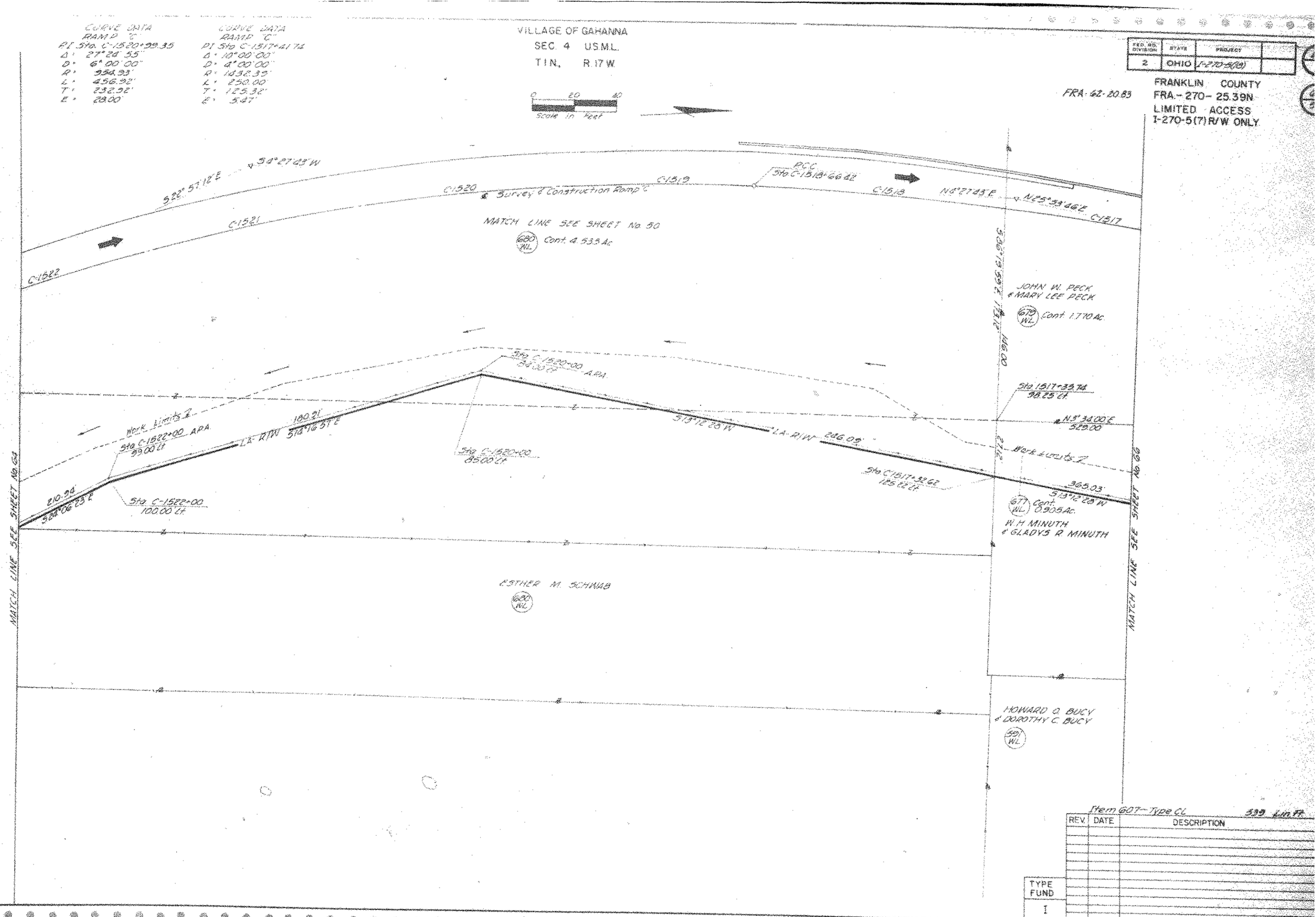
Scale in Feet 0 20 40

MATCH LINE SEE SHEET No. 30 F 56

END PROJECT	BEGIN PROJECT
FRA-270-25.39N	FRA-270-26.76N
Sta I-1525+50.00	Sta I-1525+50.00

END PROJECT	BEGIN PROJECT
FRA-270-25.39N	FRA-270-26.76N
Sta C-1525+50.00	Sta C-1525+50.00

MIFFLIN TWP.
VILLAGE OF GAHANNA CORPORATION LINE
CARROLL ROAD
Ex R/W
N 27°05'17" W
596.39
Gravel Drive
3 Car Block Gar.
1 Sty Fr Res
Small Barn
Silo
Ex R/W
Ex R/W
Ex R/W



CURVE DATA
RAMP "C"
P.I. Sta. C-1520+99.35
Δ = 27°24'55"
D = 6°00'00"
R = 954.93'
L = 456.92'
T = 232.92'
E = 28.00'
CURVE DATA
RAMP "C"
P.I. Sta. C-1517+41.74
Δ = 10°00'00"
D = 4°00'00"
R = 1432.39'
L = 250.00'
T = 125.32'
E = 5.47'
VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T.1N., R.17W.
0 20 40
Scale in Feet
FRA-62-20.83
FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
FED. RD. DIVISION 2
STATE OHIO
PROJECT I-270-5(18)
S22°57'12"E
S4°27'43"W
C-1520
C-1519
C-1518
C-1517
C-1521
C-1522
Survey & Construction Ramp "C"
PCC Sta. C-1518+66.42
N4°27'43"E
N25°53'46"E
MATCH LINE SEE SHEET No. 50
680 WL Cont. 4.533 Ac
JOHN W. PECK & MARY LEE PECK
679 WL Cont. 1.770 Ac.
S36°19'59"E 173.12'
146.00
Sta. C-1520+00 84.00 Lt. APA
Sta. 1517+35.74 98.25 Lt.
N5°34'00"E 529.00
Work Limits
Sta. C-1522+00 99.00 Lt. APA
LA-R/W 180.21 S14°16'57"E
S13°12'28"W
LA-R/W 246.05
Sta. C-1520+00 85.00 Lt.
Sta. C-1517+32.62 125.22 Lt.
365.03
S13°12'28"W
210.94 S24°06'23"E
Sta. C-1522+00 100.00 Lt.
677 WL Cont. 0.905 Ac.
W.H. MINUTH & GLADYS R. MINUTH
MATCH LINE SEE SHEET No. 64
MATCH LINE SEE SHEET No. 66
ESTHER M. SCHWAB
680 WL
HOWARD O. BUCY & DOROTHY C. BUCY
591 WL
Item 607 - Type CL 539 Lin Ft
REV. DATE DESCRIPTION
TYPE FUND
I

CURVE DATA
US-62 N.B.
P.I. Sta. 1156+05.10

L = 400.00'
D = 5°00'00"
R = 1145.92'
E = 10°00'00"
P = 5.81'
K = 199.80'
X = 398.78'
Y = 69.22'
LT = 267.09'
ST = 133.72'
LC = 399.46'

VILLAGE OF GAHANNA
SEC. 4 USML
T.1N., R.17W.

0 20 40
Scale in Feet

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-5(8)	

FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY

MATCH LINE SEE SHEET No. 64

JOHN W. PECK & MARY LEE PECK (677 WL) Cont. 1.770 Ac.

1 Sty Stucco Res.

℄ Survey ℄ Construction US-62 N.B.

1157

1156

S 3°34'00" W 329.00

Work Limits

S 13°15'28" W 369.03

L.A. R/W

(677 WL) Cont. 0.905 Ac.

1 Sty Stone Res.

(Tan) Sta 1156+00.00 A.P.A. 139.00 Rt.

(677) Cont. 0.016 Ac.

W. H. MINUTH & GLADYS R. MINUTH (677 WL)

(Tan) Sta 1156+00.00 180.00 Rt.

(Tan) Sta 1156+44.88 183.26 Rt.

S 3°34'00" W

70.39

1158

Sta 1157+91.11 103.44 Rt.

Gr. Dr. 38.32

70.47

20.0'

(Tan) Sta 1157+19.38 104.34 Rt.

60.13 N 60°03'13" E

A.P.A. Sta 1158+74.05 106.15 Rt.

(Tan) Sta 1156+86.23 163.41 Rt.

133.25

Sta 1158+05.91 119.03 Rt.

P/W S 30°03'13" W

(Tan) Sta 1156+65 175 Rt.

(680 WD) Cont. 0.005 Ac.

1 Sty Wood & Stone

120.67

(501 WL) Cont. 0.018 Ac.

(501 T) Cont. 0.042 Ac.

HOWARD O. BUCY & DOROTHY C. BUCY (501 WL) } New Govan property

Sta 1158+16.16 137.18 Rt.

Sta 1158+26.38 155.70 Rt.

S 3°34'00" W

Sta 1158+60.96 211.62 Rt.

O.M. VAGNONE & JANET VAGNONE (680 WL) Cont. 1.587 Ac.

Sta 1157+86.13 633.72 Rt.

S 3°34'00" W 822.60

Gravel Dr.

Sta 1157+46.47 728.17

SC Sta 1157+33.01

1158

141.00

COLVON S. FERREE & HELEN M. FERREE (680 WL) Cont. 2.055 Ac.

Sta 1158+48.97 63.16 Rt.

S 3°34'00" W 822.60

CHERRY LN.

S 86°19'35" E 165.00'

ADELMAN & MARTHA A. BUELL (680 WL) Cont. 2.054 Ac.

Sta 1158+74.05 107.15 Rt.

Sta 1158+74.05 107.15 Rt.

Asphalt Driveway

Curbs to be removed 215

L.A. R/W

Gravel Drive

Sta 1159+26.77 185.70 Rt.

S 3°34'00" W

(680 T) Cont. 0.004 Ac.

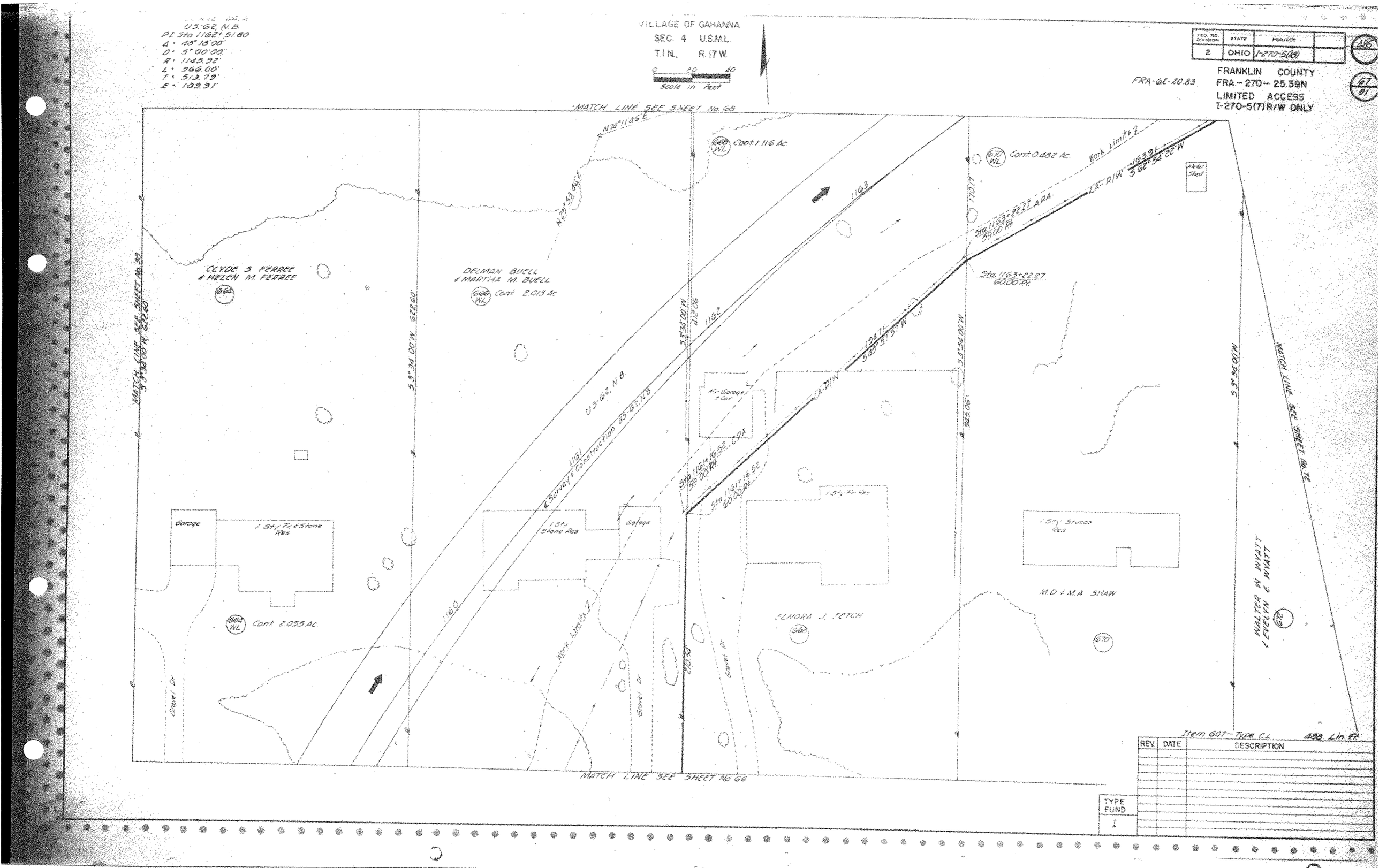
Item 607 - Type CL 828 Lin. Ft.

REV.	DATE	DESCRIPTION

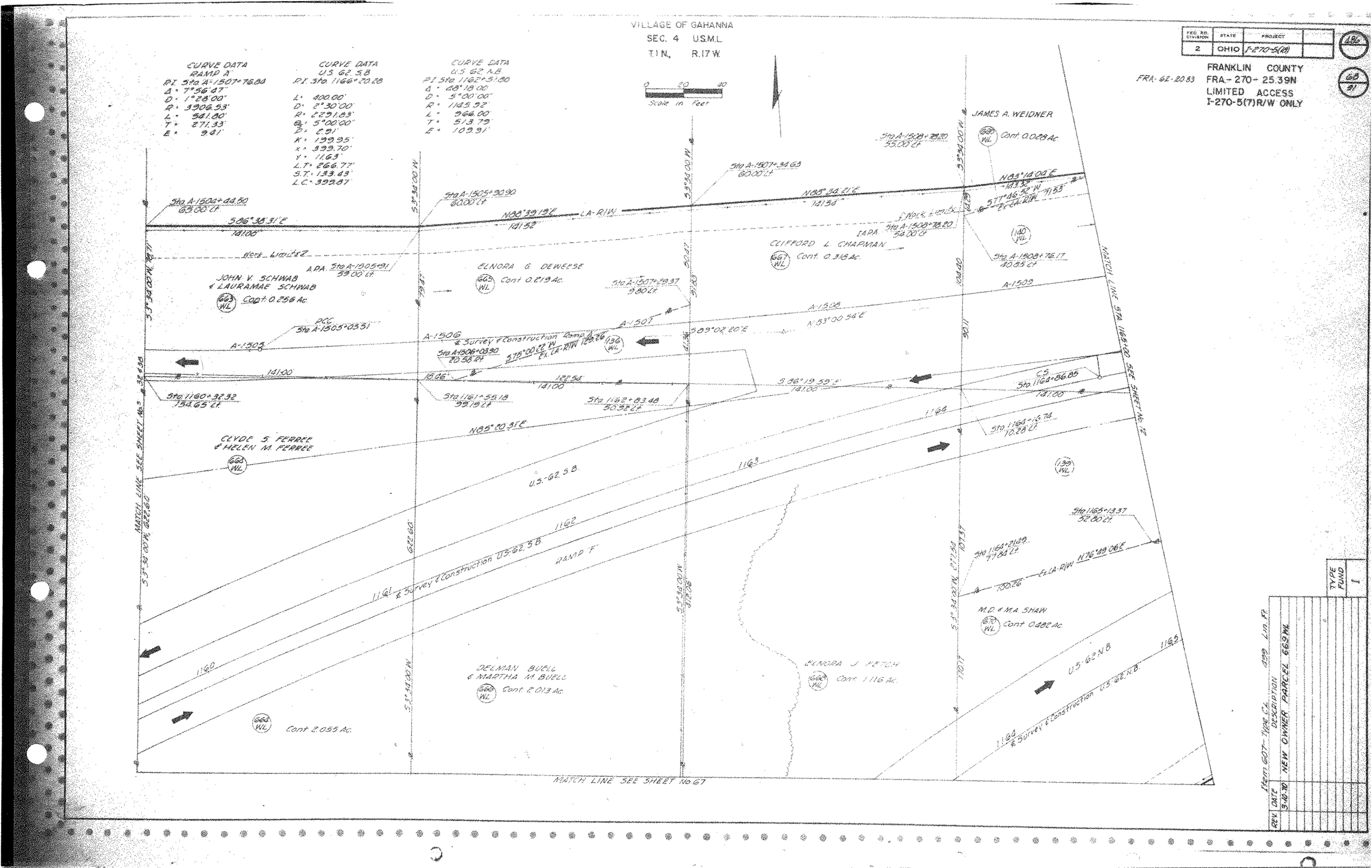
TYPE FUND
I

MATCH LINE SEE SHEET No. 65

MATCH LINE SEE SHEET No. 67



U.S.-62, N.B.
P.I. Sta 1162+51.80
Δ = 48°18'00"
D = 5°00'00"
R = 1145.92'
L = 966.00'
T = 513.79'
E = 109.91'
VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T.1N., R.17W.
0 20 40
Scale in Feet
FRA-62-20.83
FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7) R/W ONLY
FED. RD. DIVISION 2
STATE OHIO
PROJECT I-270-5(18)
485
67/91
MATCH LINE SEE SHEET No. 68
MATCH LINE SEE SHEET No. 66
MATCH LINE SEE SHEET No. 72
CLYDE S. FERREE & HELEN M. FERREE
DELMAN BUELL & MARTHA M. BUELL
Cont. 2.013 Ac.
Cont. 1.116 Ac.
Cont. 0.482 Ac.
Cont. 2.055 Ac.
Garage
1 Sty. Fr. & Stone Res.
1 Sty. Stone Res.
1 Sty. Fr. Res.
1 Sty. Stucco Res.
Metal Shed
Fr. Garage & Car
ELNORA J. FETCH
M.D. & M.A. SHAW
WALTER W. WYATT & EVELYN E. WYATT
Work Limits
Gravel Dr.
U.S.-62, N.B.
Survey & Construction U.S.-62, N.B.
Sta. 1163+22.27 60.00 Rt.
Sta. 1161+16.52 60.00 Rt.
Item 607 - Type C.L. 488 Lin. Ft.
REV. DATE DESCRIPTION
TYPE FUND
I



VILLAGE OF GAHANNA
SEC. 4 U.S.M.L.
T.1 N., R.17 W.
FEG. RD. DIVISION 2
STATE OHIO
PROJECT I-270-5(18)
FRANKLIN COUNTY
FRA.-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY
FRA-62-20.83
Scale in Feet
CURVE DATA RAMP A
P.I. Sta. A-1507+76.84
Δ = 7°56'47"
D = 1°28'00"
R = 3906.53'
L = 541.80'
T = 271.33'
E = 9.41'
CURVE DATA U.S. 62 S.B.
P.I. Sta. 1166+20.28
L = 400.00'
D = 2°30'00"
R = 2291.83'
θs = 5°00'00"
P = 2.91'
K = 199.95'
X = 399.70'
Y = 11.63'
L.T. = 266.77'
S.T. = 133.43'
L.C. = 399.87'
CURVE DATA U.S. 62 N.B.
P.I. Sta. 1162+51.80
Δ = 48°18'00"
D = 5°00'00"
R = 1145.92'
L = 966.00'
T = 513.79'
E = 109.91'
JAMES A. WEIDNER
Cont. 0.028 Ac.
Sta. A-1508+78.20 55.00' Lt.
Sta. A-1507+34.63 60.00' Lt.
Sta. A-1505+90.90 60.00' Lt.
Sta. A-1504+44.50 65.00' Lt.
S86°38'31"E
141.00'
N88°39'19"E
141.52'
LA-R/W
N88°34'21"E
141.54'
N83°14'04"E
S77°46'52"W
Ex. LA-R/W 71.53'
Work Limits
IAPA Sta. A-1508+78.20 54.00' Lt.
CLIFFORD L. CHAPMAN
Cont. 0.318 Ac.
Sta. A-1508+76.17 40.85' Lt.
Work Limits
APA Sta. A-1505+91 59.00' Lt.
ELNORA G. DEWEESE
Cont. 0.219 Ac.
JOHN V. SCHWAB & LAURAMAE SCHWAB
Cont. 0.256 Ac.
Sta. A-1507+29.37 9.80' Lt.
A-1509
A-1508
N83°00'54"E
A-1507
S89°02'20"E
PCC Sta. A-1505+05.51
A-1506
℄ Survey & Construction Ramp A
Sta. A-1506+03.90 20.58' Rt.
S75°00'22"W
Ex. LA-R/W 129.26'
A-1505
141.00'
15.46'
122.54'
141.00'
S86°19'59"E
141.00'
C.S. Sta. 1164+86.85
141.00'
Sta. 1160+32.32 154.65' Lt.
Sta. 1161+55.18 99.19' Lt.
Sta. 1162+83.48 50.92' Lt.
Sta. 1164+16.74 10.28' Lt.
N85°20'31"E
CLYDE S. FERREE & HELEN M. FERREE
U.S.-62 S.B.
1163
1164
1162
1161
℄ Survey & Construction U.S.-62 S.B.
RAMP "F"
1160
1165
Sta. 1165+13.37 52.80' Lt.
Sta. 1164+21.49 77.84' Lt.
Ex. LA-R/W N76°49'06"E
100.26'
M.D. & M.A. SHAW
Cont. 0.482 Ac.
DELMAN BUELL & MARTHA M. BUELL
Cont. 2.013 Ac.
ELNORA J. FETCH
Cont. 1.116 Ac.
U.S.-62 N.B.
1164 ℄ Survey & Construction U.S.-62 N.B.
Cont. 2.055 Ac.
MATCH LINE SEE SHEET No. 67
MATCH LINE SEE SHEET No. 12
MATCH LINE SEE SHEET No. 3
S3°34'00"W, 622.60'
S3°34'00"W
S3°34'00"W 412.06'
S3°34'00"W 277.54'
Item 607 - Type CL 499 Lin. Ft.
REV. DATE DESCRIPTION
3-10-70 NEW OWNER PARCEL 669 WL
TYPE FUND
1

CURVE DATA
RAMP T
P.I. Sta 1+1312+40.77
Δ = 50°47'23"
D = 3°00'00"
R = 1909.86'
L = 1692.99'
T = 900.66'
E = 204.22'

MIFFLIN TWP
SEC. 4 U.S.M.L.
T.1N., R.17W.

0 30 60
Scale in Feet

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-270-4(19)

FRA-62-20.83

FRANKLIN COUNTY
FRA-270-25.39N
LIMITED ACCESS
I-270-5(7)R/W ONLY

Sta 1130+01.98
116.33 Lt
N13°37'20"E
ROCK Justice ET
MATCH LINE SEE SHEET NO. 71
HENRY J NEWMAN & MARY DONNA NEWMAN
(635)
Sta 1131+00.00
113.00 Lt
N19°53'29"E
188.11'
279.26'
(60' AVG.) Cont 0.347 Ac.
Sta 1132+80
165' Lt
P.C. Sta K-1130+38.00
(52' VAC.)
1131 & Survey & Construction Dr. 22.5 B
N46°52'32"E
Sta 1132+19.20
1132
Sta 1130+55.65
106.33 Lt
N38°03'56"E
(670 WL) Cont 1.169 Ac. ±
342.45
53.63
P-1330
Sta 1131+35.98
87.62 Rt
12.0 BOT. CURVE
12° @ Relocated Channel
S.35°10'05"W
N.31°08'16"E
209.39
LA-RIN
Sta 1133+88.69
115 Lt
Sta 1133+78.99
103.74 Lt
130.82
S.3°52'26"W
MATCH LINE SEE SHEET No. 53
Sta 1130+40.37
116.23 Rt
Shed
Survey & Construction Ramp T
P-1307
125.93
MATCH LINE SEE SHEET No. 53
S.85°37'00"E
118.68'
WALTER H. CULBERTSON
(643 WL) Cont. 0.180 Ac.
VEDA JUSTICE
(642 WL) Cont. 0.433 Ac.
EDWARD CONLEY & MARIE CONLEY
(644 WL) Cont. 0.297 Ac.
N.85°37'00"W
229.35'
152.69'
N.86°52'08"W
(670 WL) JENNINGS H. STEVENS & ROSA M. STEVENS
MATCH LINE SEE SHEET No. 53

REV.	DATE	DESCRIPTION

TYPE FUND
I

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

488

70
91

FRANKLIN COUNTY
FRA.-62-20.83
LIMITED ACCESS

FRA-270-25.39 M

MIFFLIN TWP
SEC. 4 U.S.M.L.
T.1N., R.17W.

0 50 100
Scale in Feet

Ex. R/W

Ex. L.A. R/W

SERVICE ROAD "C"

Sta 1110+08.62, U.S. 62
Sta 7+14.95 Stelzer Road

Survey & Construction U.S. 62

1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115

MATCH LINE STA. 1115+00 SEE SHEET NO. 71

Work Limits

Sta 1111+83.23

K-1113 K-1114 K-1115

LESTER W. HUBER
JILLIAN V. HUBER

Cont. 0.056 Ac

Sta 1112+80.00
20.00 Rt

Sta 1113+80.00
59.00 Rt

Sta 1113+80.00
Approx. R/W

Sta 1113+00.00
60.00 Rt

Sta 1112+80.00
20.00 Rt

Sta 1111+80.00
20.00 Rt

Sta 1111+73.18
PC

Sta 1112+20.73
195.73 Rt

Sta 1109+28.28
189.10 Rt

Sta 1109+16.99
209.32 Rt

Sta 1108+69.17
180.35 Rt

Sta 1108+41.46
222.98 Rt

Sta 1110+05
223.08 Rt

Sta 1110+05
295 Rt

Sta 1110+66.10
230.00 Rt

Sta 1112+06.93
237.23 Rt

Sta 1113+00.00
245.00 Rt

Sta 1113+38.60
267.31 Rt

Sta 1115+00.00
280.00 Rt

Sta 1110+69.85
PC

Sta 1111+73.18
PC

Sta 1112+20.73
195.73 Rt

Sta 1113+00.00
245.00 Rt

Sta 1113+38.60
267.31 Rt

Sta 1115+00.00
280.00 Rt

Cont. 0.130 Ac

Cont. 0.130 Ac

Cont. 0.170 Ac

Cont. 0.234 Ac

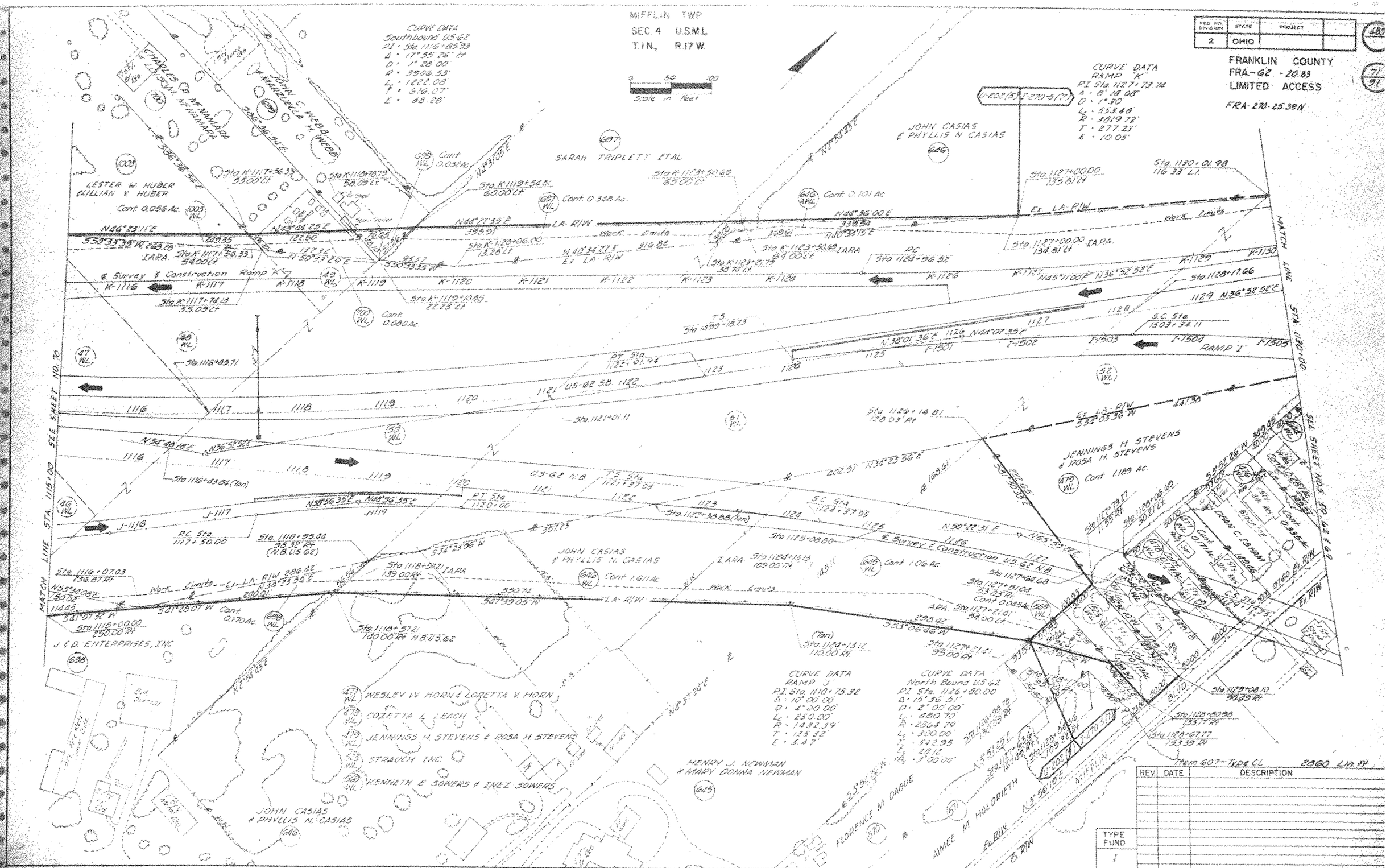
Cont. 0.006 Ac

Cont. 0.007 Ac
PRO. 0.048 Ac
Total 0.055 Ac

Work Limits

Work Limits

Work Limits



MIFFLIN TWP
SEC. 4 U.S.M.L.
T.1N., R.17W.
FRANKLIN COUNTY
FRA-62 - 20.83
LIMITED ACCESS
FRA-270-25.39N
FED. RD. DIVISION 2
STATE OHIO
PROJECT
CURVE DATA
Southbound US 62
PI Sta. 1116+85.93
Δ = 17°55'26" Lt
D = 1°28'00"
R = 3906.53'
L = 1222.08'
T = 616.07'
E = 48.28'
CURVE DATA
RAMP "K"
PI Sta. 1127+73.74
Δ = 8°18'08"
D = 1°30'
L = 553.48'
R = 3819.72'
T = 277.23'
E = 10.05'
CURVE DATA
RAMP "J"
PI Sta. 1118+75.32
Δ = 10°00'00"
D = 4°00'00"
L = 250.00'
R = 1432.39'
T = 125.32'
E = 5.47'
CURVE DATA
North Bound US 62
PI Sta. 1126+80.00
Δ = 15°36'51"
D = 2°00'00"
L = 480.70'
R = 2864.79'
L = 300.00'
T = 542.95'
E = 28.12'
Item 607 - Type CL
2860 Lin. Ft.
SARAH TRIPLETT ET AL
JOHN CASIAS & PHYLLIS N. CASIAS
LESTER W. HUBER & LILLIAN V. HUBER
JENNINGS H. STEVENS & ROSA H. STEVENS
J. & D. ENTERPRISES, INC
WESLEY W. HORN & LORETTA V. HORN
COZETTA L. LEACH
STRAUCH INC.
KENNETH E. SOWERS & INEZ SOWERS
HENRY J. NEWMAN & MARY DONNA NEWMAN
FLORENCE M. DAGUE
AIMEE M. HOLDRIETH
MATCH LINE STA. 1115+00 SEE SHEET NO. 70
MATCH LINE STA. 1130+00 SEE SHEET NOS. 59, 62 & 69
STA. 1115+00 TO STA. 1130+00 R/W

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-GE-28.83 FRA-I70-25.30N
LIMITED ACCESS

190 | 72 | 91

VILLAGE OF GAHANNA
Sec 4 T1N R17W U.S.M.L.

Scale 1:40 Feet

JAMES A. WEIDNER (668)

ROBERT N. WEIDNER & MARILYN F WEIDNER (673)

THE BELLWOOD REALTY COMPANY (671)

LORRAINE C WEIDNER (675)

NOTE
All homes between Carroll Road and the Creek have leaching beds draining into 15" pipe

GEORGE R. NEAL & OLGA C NEAL (149 WL)

ROSELEE C. LAPOINT (150 WL)

CARL E CLARK & PATRICIA C CLARK (151)

AGLER INVESTMENT COMPANY

AGLER ROAD

16

15" Block Bldg. (Basement Apt.Hse)

12" Walk

Septic Tank

Septic Tank

Cont. 0.028 Ac. (668 WL)

S 88°27'17" W 79.35 N89°44'00"E 85.31

Sta 1165+00.00 30.00 Lt (Tan)

PT Sta A-1510+27.30 Sta 1166+00.31 35.33 Lt. SB US 62

A-1510

Sta 1165+79.46 (Tan) 23.71 Lt (160 WL)

Cont. 0.023 Ac. (673 WL)

Cont. 0.055 Ac. (611 WL)

ST Sta 1168+86.85

Sta 1165+59.91 (Tan)

Sta 1167+01.38 (Tan)

RAMP "F"

Sta 1166+95.23 49.43 RH (Tan)

141.00

Sta 1165+35.72 29.01 RH (Tan)

Sta 1165+45.73 38.09 RH

N85°51'11"E 45.77

Survey & Construction US 62 (N.B.)

Sta 1166+68.62 IAPA 154.00 RH

Cont. 0.491 Ac. (672 WL)

Cont. 0.082 Ac. (670 WL)

S 56°54'16" W 163.21

WALTER W. WYATT & EVELYN E. WYATT (672)

N.B. US 62 Sta 1166+68.69 55.00 RT

Cont. 0.009 Ac. (674 WL)

JUANITA BAKER (674)

Sta 1167+16.83 100.00 Lt (Tan)

Sta 1168+52.30 100.00 Lt (Tan)

N85°20.3'E

LA-RIW 142.37

Sta 1167+86.69 100.00 Lt

Sta 1168+44.80 (Tan)

Survey & Construction US 62

Sta 1169+74.32 36.79 RT

Cont. 0.186 Ac. (676 WL)

Sta 1169+74.32 90.76 RH

Sta 1168+34.79 69.82 RH (Tan)

S 79°26'33" W 145.19

IAPA Sta 1169+68.52 136.00 RH

S.B. US 62 (Tan) Sta 1168+24.02 188.08 RT

RICHARD R. GIBBONS & RUTH ELLA GIBBONS (676)

Sta 1170+23.02 87.39 RT

N 85°20'42" E 88.9

Sta 1169+68.52 130.00 RH

S.B. US 62

S 89°23'53" W

Cont. 0.109 Ac. (678 WL)

LODEN B. CANADA & MARJORIE F CANADA (678)

ST Sta 1171+00.00 (N.B.) US 62 = US 62 (S.B.) Sta 1171+00.00 66.00 RH

Sta 1171+13.72 110.67 RH

Cont. 0.048 Ac. (677 WL)

Sta 1171+09.34 140.00 RH

D.L. GREEN & E.L. GREEN (675)

Sta 1172+72.04

Cont. 0.189 Ac. (679 WL)

Sta 1173+93.81 151.50 RH

Sta 1172+53.29 131.09 RH

WILLIAM C. KENT & LOIS ANN KENT

Sta 1174+14.30

Work Limits

Sta 1175+32.32 171.92 RH

Cont. 0.856 Ac. (680 WL)

Sta 1175+31.36 125.04

141.00 S 86°19'55" E

LESLIE EDWARD SHIELDS & CHRISTEL A. SHIELDS

Sta 1174+20.00 99.00 Lt

Sta 1175+10.38 100.00 Lt (Ahead)

Sta 1175+19.79 100.00 Lt

Sta 1175+71.62 100.00 Lt

Sta 1176+14.50 100.00 Lt

BEARING EQUATION
N85°20.3' (Back) = N85°20'09" (Ahead)

Sta 1175+57.11 (Back)

Sta 1175+55.67 (Ahead)

Sta 1179+97.63 100.00 Lt

Ex. LA-RIW

Sta 1178+53.17 110 RH

Sta 1178+72.35 100 RH

Cont. 0.157 Ac. (682 WL)

Sta 1178+58.51 100.00 Rt

(Ahead) Sta 1175+40.96 100.00 RH

313.55' N85°20'09"E

107.77' S 85°20'09" W

Cont. 0.174 Ac. (681 WL)

LA-RIW

JOHN C. YOUNG & VIRGINIA C. YOUNG 0.536 Acres Previously Landlocked

205.12'

Sta 1176+45.00 100 RH

Sta 1178+68.68

Sta 1178+68.68 115.18

Cont. 0.053 Ac. (682A WL)

Sta 1178+68.68 115.18

DONALD LEATHERS 0.265 Acres Previously Landlocked

Sta 1179+68.20 110.00 RH

Sta 1179+66.26 130.00 RH

MATCH LINE STA 1180+00

SEE SHEET NO. 3

Item 607 - Type CL 3082 Lin. Ft.

REV	DATE	DESCRIPTION
	3-10-30	NEW OWNER PARCEL 669 WL

TYPE
FUND

STA 1166+00 TO STA 1180+00 RW 7

VILLAGE OF SAHANNA
Sec 1 & Sec A U.S.M.L.
T. 1 N., R. 17 W

0 25 50 100
Scale in Feet

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-62-20.88 FRA-270-28.38 N
LIMITED ACCESS

491
73
91

Sec 1
Sec A

ASLER INVESTMENT COMPANY
15
14
16
13
12
10
9
8
7
6
5
4
3
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Y

1 Story Block Bldg (Shopping Center)
Sec 36
Gl Area
Asphalt Drive
Storage Tanks
Asphalt Surface
Gas Station
Concrete Slab
Sta 13+10.67 STYGLER RD
Sta 1181+01.66 Conc 27.83 Lt. Ex R/W
Sta 1181+38.05 256.68 Lt. Blk Top
SHELL OIL COMPANY
Sta 1188+19.68 100.32 Lt. (Gas Station)
Sta 1188+92.07 100.00 Lt.
LESTER J. ERLENBACH & HOWARD C. PARK
Parking Area
Brick Bldg
Sta 1189+25.68 100.00 Lt.
Sta 1189+75.68 99.00 Lt.
Work Limits
APA
Sta 1189+32.69 44.30 Rt.
Sta 1189+20.22
Survey Construction 115-62
N 85°20'09" E
Sta 1187+31.90 U.S. 62 & Sta 10+00.00 & STYGLER RD
Sta 1187+35.00 100.00 Rt.
Sta 1187+85.00 100.00 Rt.
Sta 1187+76.42 192.63 Rt.
Sta 1187+32.10 200.61 Rt.
Sta 1187+12.86 210.05 Rt.
Sta 1187+11.72 314.46 Rt.
Sta 1187+48.37 100.00 Rt.
Blk Top Drive
Brick Apt Bldg
Brick Apt Bldg
Brick Apt Bldg
Brick Apt Bldg
Brick Apt Bldg
NEWTON D. FILLEY & NELLIE M. FILLEY
RAYMOND W. PHILLIPS & HARRIET A. PHILLIPS
HAROLD D. LITTLE & GLADYS J. LITTLE
ELMER E. HEINTZ & EMOGENE HEINTZ
WILLIAM N. OWENS
RAY C. CAVENDISH & CHARLOTTE B. CAVENDISH
R.L. & D. SAVER
WESLEY A. HOUK & RUTH A. HOUK
THOMAS W. COOK & BETTE J. COOK
AGLER INVESTMENT COMPANY 0.663 Acres Previously Landlocked
THE STANDARD OIL COMPANY
MORRIS C. MATTLIN
Res. A
Sta 1186+80.00 100.00 Lt.
Sta 1186+02.67 70.69 Lt.
Sta 1183+16.96 90.71 Lt.
Sta 1183+13.66 752.19 Lt.
Sta 1182+26.61 100.00 Lt.
Sta 1183+18.32 100.00 Lt.
Sta 1181+28.85 100.00 Rt.
Sta 1181+94.69 130.00 Rt.
Sta 1181+91.20 155.60 Rt.
Sta 1184+00.00 91.53 Rt.
Sta 1184+31.59 80.00 Rt.
Sta 1184+85.00 85.00 Rt.
Sta 1185+05.00 105.00 Rt.
Sta 1185+85.67 105.00 Rt.
Sta 1186+39.33 80.00 Rt.
Sta 1186+84.71 79.00 Rt.
Sta 1184+37.59 79.00 Rt.
Sta 1182+82.00 139 Rt.
I-270-5.17 U-20.13
IAPA
EPA
APA
Conc Dr.
Asphalt Dr.
Gravel Dr.
Cont 0.157 Ac.
Cont 0.062 Ac.
Ex. LA R/W
Ex R/W
Ex LA-R/W
Ex L.A. R/W
Ex. L.A. R/W
Ex. R/W
Ex. LA-R/W
Ex.

FED. RDS. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA.-62-20.83
LIMITED ACCESS
FRA-270-25.39 N.

192

74
91

VILLAGE OF GAHANNA
SEC. 1 & SEC. 4 U.S.M.L.
T.1N., R.17W.

0 50 100
Scale in Feet

Also see Sheet 90 & 89

SEE SHEET NO 73

MATCH LINE STA 1195+00

SEC 1 / SEC 4

Ex. L.A.

S 86°10'03" E 980.96

AGLER RD.

Ex. R/W

Ex. L.A.

Sta 1196+00.00 IAPA
110.00' Rt.

(167 WL) STATE OF OHIO

Sta 1202+00.00 IAPA

Sta 1195+03.70

1196 1197 1198 1199 1200 1201 1202 1203 1204 1205

Sta 1195+18.79
53.66' Rt.

P.C. Sta 1196+20.66

Sta 1196+19.10
68.10' Rt.

S 86°53'03" W
98.96'

S 3°20'09" W

(166 WL)

(101 WL)

Sta 1196+24.98
90.00' Rt.

Sta 1195+29.03
90.00' Rt.

Ex. L.A. R/W

Work Limits

Sta 1200+00.00 IAPA

Sta 1203+79.43
79.00' Rt.

P.T. Sta 1203+31.66

Sta 1203+79.43
90.00' Rt.

ELMA M SCHNEIDER

S 6°12'45" E

N 83°23'30" W

LUCY M LEHOFF

CEMETERY
MIFFLIN TWP TRUSTEES

Ex. R/W

Ex. L.A.

Sta 1203+90.88
29.50' Lt.

Ex. R/W

Ex. L.A.

Sta 1203+84.89

Sta 1205+00.00
28.00' Lt.

E.P.A.

N 88°53'27" E
205'

Sta 1205+95.50

(166 WL) ERA Sta 1205+69.36
15.00' Rt.

21031

NORMAN D DAGUE
& THEA ET DAGUE

(Sta 1205+39.72
60.00' Rt.

209.96

LAWRENCE L LUFT
& HILDA M LUFT

S 1°00'48" E

Ex. L.A. R/W

PRIDEAUX RD.

Ex. R/W

CEMETERY
MIFFLIN TWP TRUSTEES

Sta 1206+01.27
77.39' Lt.

Sta 1205+97.39
32.50' Lt.

S 87°01'05" E
162.10'

(166 WL)

Sta 1207+60.01
18.94' Lt.

N 87°01'05" W
162.10'

Sta 1207+62.96
65.83' Lt.

Sta 1208+29.26
59.86' Lt.

Sta 1208+19.72 ERA
79.00' Rt.

Sta 1207+58.14

1206 1207 1208 1209

Sta 1209+00
66.00' Lt.

Sta 1209+61.68
IAPA 51.61' Lt.

Sta 1208+29.96

Sta 1209+37.97

(167 WL)

(166 WL)

N 88°53'27" E
162.53'

Ex. L.A. R/W

S 88°53'27" W
162.53'

(166 WL)

Sta 1207+92.96
80.00' Rt.

Sta 1208+49.10
80.00' Rt.

Sta 1209+16.09
80.00' Rt.

Sta 1209+52
80.00' Rt.

(169 T5)

Sta 1210+00
80.00' Rt.

2 Sty Barn & Gar

Shed

Sta 1208+39.72
80.00' Rt.

2 Sty Ft.

BARN

2 Sty Ft.

ALMA K STONER
& MARY E CONNETT

ALMA K STONER
& MARY E CONNETT

Ex. L.A. R/W

Ex. L.A. R/W

Item 607 - Type CL 2539' Lin Ft

REV.	DATE	DESCRIPTION

(166 WL) COLUMBUS & SOUTHERN OHIO ELECTRIC COMPANY

TYPE FUND

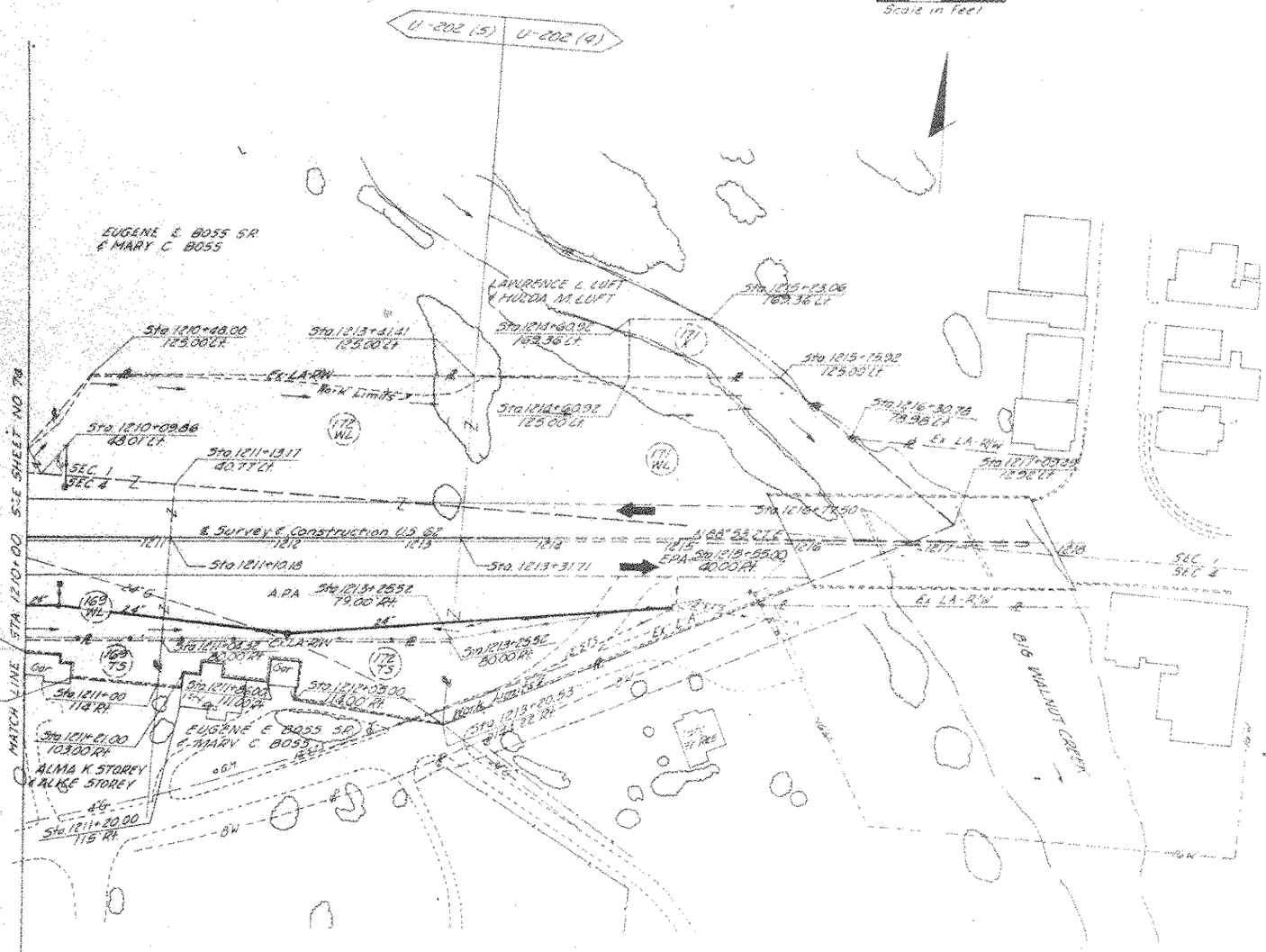
STA 1195+00 TO STA 1210+00 R/W

FED. RD. DIV.NO.	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY
FRA.-62-20.83
LIMITED ACCESS
FRA-270-25.39N

VILLAGE OF GAHANNA
SEC. 1 & SEC. 4 U.S.M.L.
T.1N., R.17W.

0 50 100
Scale in feet



Also see Sheet 30

Item 607 - Type C1 561 Lin Ft

REV	DATE	DESCRIPTION

TYPE
FUND

STA. 1210+00 TO STA. 1228+00 R/W

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

STATE	FED. PROJECT	SHEET NO.
0	OHIO I-270-1(011)18	PLAN SHEET

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
R/W PLANS
LIMITED ACCESS

HIGHWAY PARCEL NO	OWNER	AUD. FOR PARCEL NO	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA ACRES	TOTAL PRO. ACRES	TO BE ACQUIRED (ACRES) GROSS TAKE	TO BE ACQUIRED (ACRES) PRO. IN TAKE	TO BE ACQUIRED (ACRES) NET TAKE	BLDGS.	NET RESIDUE ACRES LEFT	NET RESIDUE ACRES RIGHT	TYPE S-ELT PLANS	TYPE S-ELT NO	REMARKS
654															Not Required
654-WD	Dennis & Sally Roe	3108	1924	16	0.870	0.093	0.160	0.093	0.015	No	0.702	—	I	6	Acquired on FRA-270-20.40N R/W Only
655-WD	Bruce W & Donna J Roe	77	2466	247	1.685	0.078	0.160	0.078	0.082	No	1.485	—	I	6	Acquired on FRA-270-20.40N R/W Only
656-WD	Duane G & Dorothy Stevens	2039	2358	572	1.695					No			I	6	Acquired on FRA-270-20.40N R/W Only
656T															Build driveway
657-WL	Forrest L & Dora Dunlap	70	1880	209	2.334	0.090	2.334	0.090	2.244	Yes	—	—	I	6,7	Acquired on FRA-270-20.40 N Total Take
658-WL	Leo Dayne	866	2685	100	0.853	0.080	0.853	0.080	0.773	Yes	—	—	I	6,7	Acquired on FRA-270-20.40N R/W Only Total Take
659-WL	John F & Faye Wynn	2608	1792	426	0.682		0.682		0.682		—	—	I	6,7	Acquired on FRA-270-20.40 N Total Take
660-WL	Fred E & Hazel M Dowson	2347	2263	541	1.238		1.238		0.682		—	—	I	7	Acquired on FRA-270-20.40 N Total Take
		2645	2041	114											
661 —	700 Incl.														Acquired on FRA-270-20.40 N Total Take
701-WL	Juanita M. Gundelfinger	873	2370	587	3.649		1.382		1.382	Yes	1.888	—	I	7	Acquired on FRA-270-20.40N R/W Only
701-WD							0.379		0.379						
702-WL	Ray & Katherine Fox	2348	1697	635	3.324		0.535		0.535	Yes	2.500	—	I	7	Acquired on FRA-270-20.40N R/W Only
702-WD							0.289		0.289						
703-WL	William E & Mary Davis	2584	2064	137	3.055		0.229		0.229	No	2.639	—	I	7	Acquired on FRA-270-20.40N R/W Only
703-WD			1575	620			0.187		0.187						
704-WL	Marion P & Charlotte Main	894	1493	206	5.306		0.138		0.138	No	4.921	—	I	7	Acquired on FRA-270-20.40N R/W Only
704-WD		961	1655	262			0.247		0.247						704-WL (0.138 Acres out of 894)
															704-WD (0.043 Acres out of 894, 0.204 Acres out of 961)
705 —	735 Incl														Not Used
736-WD	Henry L & Juanita Krasinski	2407 -	2805	693	24,600SF		20,000SF		20,000SF	Yes	—	—	I	6	Englewood Heights L 7-10 Total Take
736-EL		2410 Incl.					4,600 S.F.		4,600SF				ST		
737-WD	Crayton T & Alberta Hampp	2411, 2412	2462	560	12,300SF		10,000SF		10,000SF	Yes	—	2,300SF	I	6	Englewood Heights L 11, 12
															737-WD (5,000 S.F. out of 2411, 5,000 S.F. out of 2412)
738-WD	Crayton T. Hampp	2414	1078	298	36,900SF		12,628SF		12,628SF	Yes	—	24,272SF	I	6	Englewood Heights L 13,15
738-X							481SF		481SF						
738-T							780SF		780SF						Build Driveway
739-WL	Alfred R. Brenholts	3071	2704	162	22.979	0.584	1.407	0.405	1.002	Yes	—	16.530	I	6,7,8	739-WL (0.374 Acres out of 3071, 0.959 Acres out of 109, 0.662 Acres out of 91, 1.182 Acres out of 324, 1.217 Acres out of 23, 0.013 Acres out of 3074)
739-WD		23	2704	166			2.037	0.179	1.858						739-WD (0.370 Acres out of 3071, 0.153 Acres out of 109, 0.166 Acres out of 91, 0.158 Acres out of 324, 0.294 out of 23, 0.713 Acres out of 1169, 0.073 Acres out of 2565, 0.112 out of 3074)
739-X		109	2704	164			0.023		0.023						
		2565	2704	168											
		1169		171											
		3074		174											
				177											
				180											
		91	2704	183											
		324	2704	186											

L.L. indicates Lands Which are Landlocked — P.R.O. indicates Present Road Occupied

Total Number of Owners 26
Total Number of Owners with Structures 18
Number of Total Takes 6

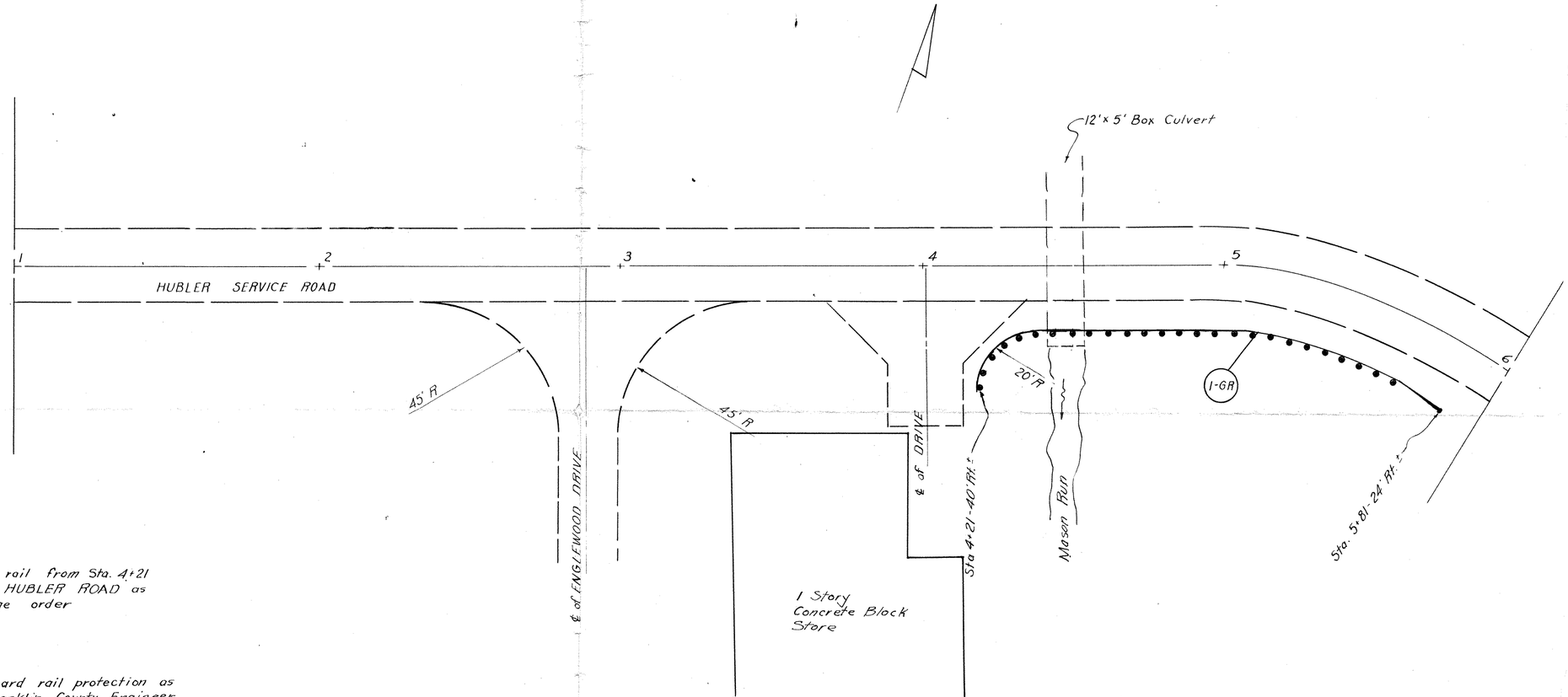
UTILITIES
Ohio Bell Telephone Co. 111 North Fourth St Columbus, Ohio 43215
American Telephone & Telegraph Co. 100 E Broad St Columbus, Ohio 43215
Columbus & Southern Ohio Electric Co. 215 N. Front St Columbus, Ohio 43215
Columbia Gas of Ohio Inc. 920 W. Goodale Blvd Columbus, Ohio 43212
Village of Gahanna 130 Mill St Gahanna, Ohio 43020
City of Columbus, Ohio Sewerage & Drainage Division 90 W. Broad St. Columbus, Ohio 43215
City of Columbus, Ohio Division of Water 90 W. Broad St. Columbus, Ohio 43215

COMPLETION DATE August 28, 1969

REV.	DATE	DESCRIPTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA ~ 270 ~ 26.76
CHANGE ORDER NO. _____



WORK REQUIRED:
Add guard rail from Sta. 4+21 to Sta. 5+81 right HUBLER ROAD as shown per change order

PURPOSE:
Provide guard rail protection as required by the Franklin County Engineer to meet the requirements of the Ohio Revisid Code

ESTIMATED QUANTITIES FOR CHANGE ORDER

Ref.	Station	Side	606 Guard Rail Type-5 L.F	606 Anchor Assembly Ea.	606 Approach End Assembly Ea.		
1-GR	Sta 4+21 to Sta. 5+81	Rt.	187.50	1	1		
	TOTAL		187.50	1	1		

Note:
In order not to disturb the 5'x12' culvert at Sta. 4+45 ℄ HUBER SERVICE ROAD the guard rail post from Sta. 4+21 to Sta. 5+81 Rt. can be installed with less then the 3'-6' minimum depth utilizing the baseplate for guard rail posts as found on original plan sheet 16. A 3/4" x 3" flush self-drilling anchor with a 3/4" x 2 1/4" Bolt will be used in place of 3/4" x 8" galvanized bolt with plate

CALC. 9/25/72 RKT
CHK. D.O.R. 9/25/72

HUBER SERVICE ROAD CHANGE ORDER

MIFFLIN TWP. 4TH QR.
T.1N., R.17W., U.S. MILITARY LANDS

SEQ. NO.	STATE	NUMBER
2	OHIO	I-270-5(81)16

FRANKLIN COUNTY
FRA. 270 - 25.39N
F.R.A.- 62-20.83

0 50

See Sheet No. 61 for continuation of Ramp "E"

See change order on guard rail

JOHNSTOWN RD. U.S. ROUTE 62

JOHN F. WEEKLEY

DENNIS ROE

BRUCE W. RUE

JOANNE E. STEVENS

FORREST L. DUNLAP

LEO F. PAYNE

ALFRED R. BRENHOLTS

ENGLEWOOD ADD'N.
P.B. 18 P. 60
Blacklick Investment, Inc.

Residue 0.702 Acres
Residue 1.485 Acres
Residue 2,300 S.F.
Residue 16.530 Acres

Total Take 2.334 Acres
Total Take 24,600 S.F.
0.168 Acres
0.140 Acres
0.029 Acres
0.023 Acres
780 S.F.
481 S.F.
P.R.O. = 0.09 Ac.

Frame Residence
Brick Residence
Stucco Residence
Stucco Res.
Brick Res.
Frame Res.
Trailer Res.
Foundation
Cistern P.C. 6+13.29
Septic Tank
Block Gar.
Shed
Silo
Pole Barn
Pole Building
Pole Building 4,953 Acres
Pole Building 0.407 Acres
Pole Building 0.407 Acres
Pole Building 0.407

FED. NO.	STATE	PROJECT
2	OHIO	I-270-3(81)8

FRANKLIN COUNTY
FRA 270-25.39N
FRA-62-20.83

VILLAGE OF GAHANNA
4TH OR MIFFLIN TWP
T.1N., R.17W., U.S. MILITARY LANDS

ESTHER M. SCHWAB

JUANITA M. GUNDELFINGER

RAY & KATHERN FOX

WILLIAM E. & MARY N. DAVIS

MERTON P. & CHARLOTTE MAIN

FORREST DUNLAP
Total Take
2.334 Acres

LEO F. PAYNE

FRED E. DAWSON

JOHN F. WINN

ALFRED R. BRENHOLTS
4.407 Acres

MATTOX REALTY, LTD.

M. ALBERTA HUBLER
14.874 Acres

CARROLL ROAD

JOHNSTOWN ROAD

VILLAGE OF GAHANNA
CITY OF COLUMBUS

MIFFLIN TWP
CITY OF COLUMBUS

0.379 Acres
Residue 1.888 Acres
0.289 Acres
Residue 2.500 Acres
Residue 2.639 Acres
Residue 4.921 Acres
0.187 Acres
0.247 Acres
0.535 Acres
1.382 Acres
0.853 Acres
Total Take
2.037 Acres
0.750 Acres
Residue 5.440 Acres

Curve Data
D = 38°11'50"
Δ = 86°24'56"
T = 140.90'
E = 55.80'
L = 226.24'
R = 150'

Curve Data
D = 95°29'35"
Δ = 90°00'00"
T = 60'
E = 24.85'
L = 94.25'
R = 60'

End R/W Acquisition
FRA-270-20.40 N
I-270-5(C) R/W Only

Begin R/W Acquisition
FRA 270-26.20 N
I-270-5(B) R/W Only

0+00 Schwab Service Rd. = 27+61.50 Johnstown Rd.

ITEM	DESCRIPTION	UNIT	QUANTITY
607	Fence, Type CL	L.F.	612

IFUNDS
COMPLETION DATE August 28, 1969

REV.	DATE	DESCRIPTION

RIGHT OF WAY 1524+00 TO 1526+78

LOCATION PLAN

U.S. ROUTE 62 SEC. 19.06

FRANKLIN COUNTY, OHIO

MIFFLIN TWP. R.17, T.1, QUARTER TWP. 3 & 4.

0 200 400 600

SCALE IN FEET

THIS IMPROVEMENT HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY FROM STATION 1006+45 TO STATION 1218+20.05, BY ACTION OF THE DIRECTOR OF HIGHWAYS AND RECORDED IN VOLUME 46, PAGE 430, OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

RECEIVED ____ 19__
RECORDED ____ 19__
BOOK 32 PAGE 62 & 63
FRANKLIN COUNTY RECORDER

FRA-62-20.83 FRA-270-25.39 (19.1)

LIMITED ACCESS

(72/81)

SIGNED E. L. Shelby

DATE 4-12-1962 DIVISION DEPUTY DIRECTOR

Note: Right of Way points are referenced at right angles to the tangent in all curves.

BEGIN PROJECT FRA-62-19.06 STA 1006+45

LEONARD AVE

NELSON ROAD

U.S. RT. 62

℄ INTERSECTION NELSON RD & LEONARD AVE.

N 87°59'33" E

ALUM CREEK

1010 1015 1020 1025 1030 1035 1040 1045 1050 1055 1060 1065 1068

1015+13

Station Equation
Sta 1024+51.070 Back =
Sta 1024+31.911 Forward

℄ Survey

N 33°51'20" E

Station Equation
Sta 1039+09.506 Back
Sta 1039+05.010 Forward

EXISTING U.S. RT. 62

MIFFLIN TOWNSHIP

CITY OF COLUMBUS CORPORATION

℄ SURVEY CURVE DATA
P.I. Sta 1018+67.211

Δ =	24°08'11.8"	Δc =	13°38'13"
D =	3°00'	Qs =	5°13'00"
Ls =	350'	Lc =	454.554'
Ts =	383.854'	K =	174.95'
Es =	45.894'	Yc =	10.68'
R =	1909.86'	P =	2.67'

℄ SURVEY CURVE DATA. P.I. Sta 1034+57.536

Δ =	16°29'00"	Δc =	5°39'00"
D =	3°00'	Qs =	5°13'00"
Ls =	350'	Lc =	199.444'
Ts =	451.970'	K =	174.95'
Es =	22.669'	Yc =	10.68'
R =	1909.86'	P =	2.67'

℄ Sta 5+58.56 Cassady Ave
℄ Sta 1046+13.30 Exprwy

CASSADY AVE

N 3°11'28" E

STA 1052+29.93

℄ Intersection
Sta 0+00 ℄ 17th Ave =
Sta 9+63.35 ℄ Cassady Ave
℄ Survey

132°51'08"

561.56'

STA 1046+13.296

℄ Sta 4+06.99 17th Ave
℄ Sta 1052+28.43 Exprwy

43°26'58"

635.77'

SEVENTEENTH AVE

N 50°20'20" E

℄ Intersection
Sta 10+43.35 ℄ 17th Ave
= ℄ Existing U.S. Rt 62

EXISTING U.S. RT. 62

℄ Intersection
Sta 0+00 ℄ Cassidy Ave
= ℄ Existing U.S. Rt 62

N 66°12'42" W

1068 1070 1075 1080 1085 1090 1095 1100 1105 1110 1115 1120 1125

N 50°20'20" E

℄ SURVEY CURVE DATA
P.I. Sta 1074+89.108

Δ =	4°27'35.6"
D =	0°30'
T =	445.781'
E =	8.685'
Lc =	891.978'
R =	11459.16'

Station Equation
Sta 1079+35.385 Back =
Sta 1079+34.859 Forward

STERLING AVE

END PROJECT FRA-62-19.06 STA. 1100+00

BEGIN FUTURE PROJECT FRA. 62-20.83 STA. 1100+00

N 54°47'55" E

℄ SURVEY CURVE DATA
P.I. Sta 1116+85.904

Δ =	17°55'25.7"
D =	1°28'
Lc =	1222.078'
T =	616.068'
R =	3906.64'
E =	48.281'

STA 1110+08.616
N 3°29'55" E

128°41'37"

℄ Intersection
Sta 0+81.19 ℄ Stelzer Rd =
℄ Existing U.S. Rt 62

℄ Sta 7+14.95 Stelzer Rd =
℄ Sta 1110+08.62 Exprwy

STELZER ROAD

633.76'

QUARTER TWP. 3

QUARTER TWP. 4

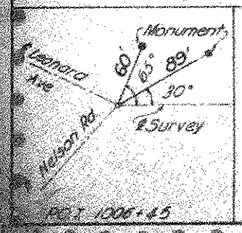
N 36°32'30" E

Station Equation
Sta 1123+01.994 Back =
Sta 1122+91.930 Forward

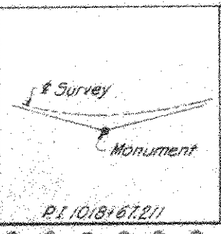
I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF HIGHWAYS IN 1961 BY Burgess & Niple

Robert H. Ingell DATE 16 Oct 61

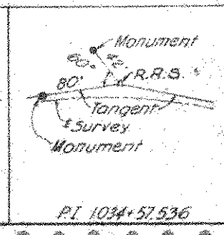
CENTERLINE REFERENCE MONUMENTS WILL BE SET DURING OR AFTER CONSTRUCTION



P.O.T. 1006+45



P.I. 1018+67.211



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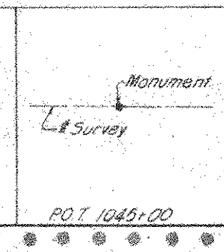
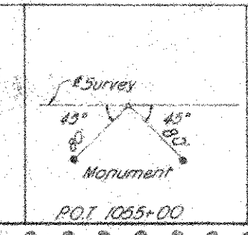


P.O.T. 1045+00



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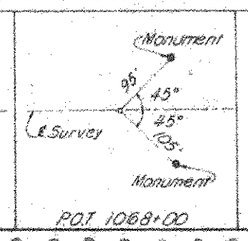
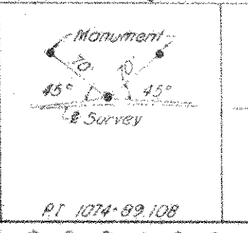
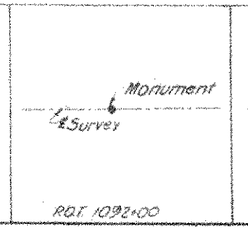


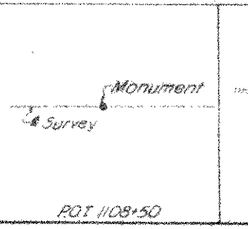
P.O.T. 1068+00



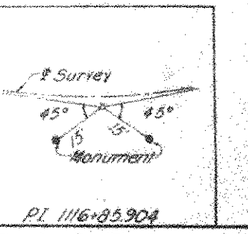
P.I. 1074+89.108



P.O.T. 1092+00

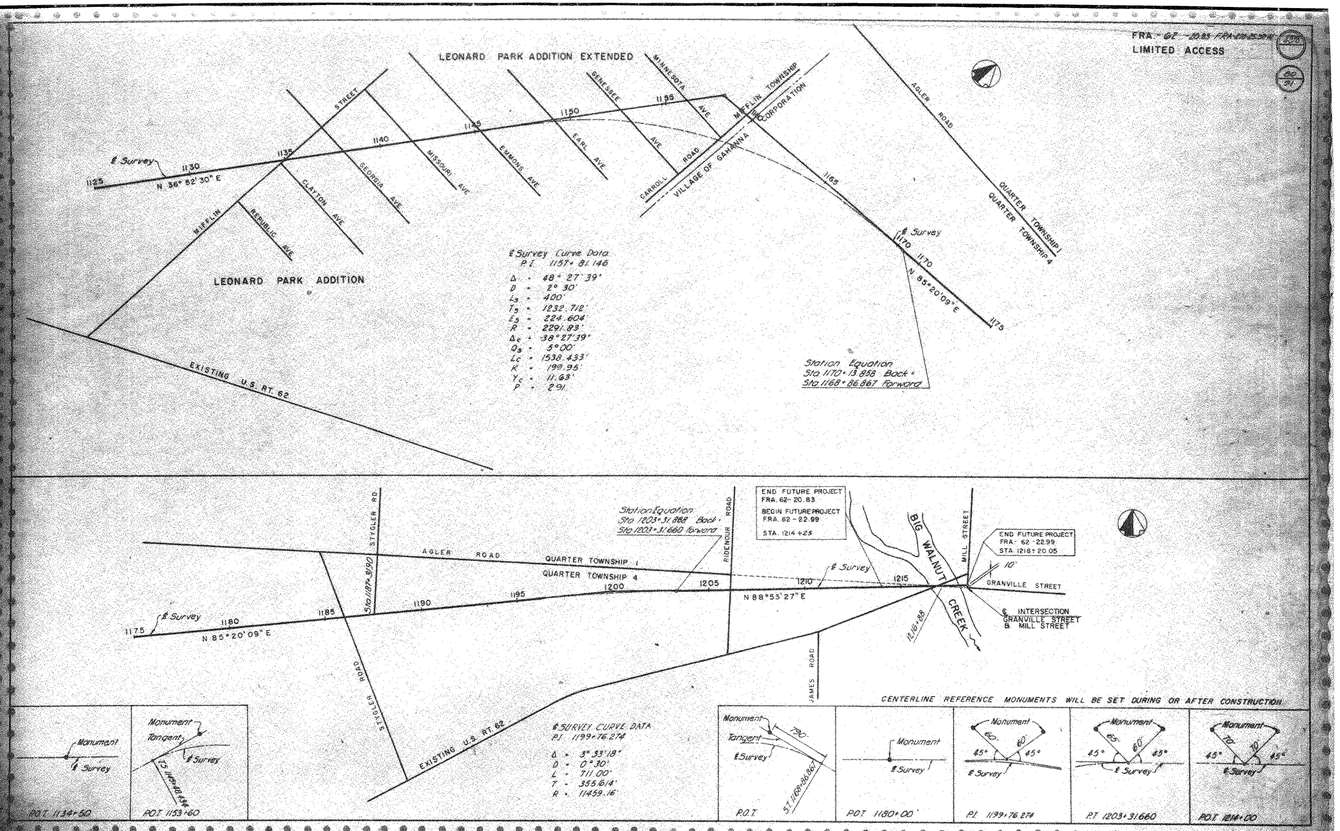


P.O.T. 1108+50



P.I. 1116+85.904

Reg. Surveyor # 3709


FRA - 62 - 20.83 FRA-20.83 SP
LIMITED ACCESS
LEONARD PARK ADDITION EXTENDED
LEONARD PARK ADDITION
℄ Survey
N 36° 52' 30" E
N 85° 20' 09" E
N 88° 53' 27" E
MIFFLIN
REPUBLIC AVE
CLAYTON AVE
GEORGIA AVE
MISSOURI AVE
EMMONS AVE
EARL AVE
GENESEE AVE
MINNESOTA AVE
CARROLL ROAD
VILLAGE OF GAHANNA
MIFFLIN TOWNSHIP
CORPORATION
AGLER ROAD
QUARTER TOWNSHIP 1
QUARTER TOWNSHIP 4
EXISTING U.S. RT. 62
℄ Survey Curve Data
P.I. 1157+81.146
Δ = 48° 27' 39"
D = 2° 30'
Ls = 400'
Ts = 1232.712'
Es = 224.604'
R = 2291.83'
Δc = 38° 27' 39"
Qs = 5° 00'
Lc = 1538.433'
K = 199.95'
Yc = 11.63'
P = 2.91'
Station Equation
Sta 1170+13.858 Back =
Sta 1168+86.867 Forward
STYGLER RD
Sta 1187+31.90
Station Equation
Sta 1203+31.868 Back =
Sta 1203+31.660 Forward
RIDENOUR ROAD
END FUTURE PROJECT
FRA. 62-20.83
BEGIN FUTURE PROJECT
FRA. 62-22.99
STA. 1214+25
BIG WALNUT CREEK
MILL STREET
END FUTURE PROJECT
FRA - 62 - 22.99
STA. 1218+20.05
GRANVILLE STREET
℄ INTERSECTION
GRANVILLE STREET
& MILL STREET
JAMES ROAD
STYGLER ROAD
EXISTING U.S. RT. 62
℄ SURVEY CURVE DATA
P.I. 1199+76.274
Δ = 3° 33' 18"
D = 0° 30'
L = 711.00'
T = 355.614'
R = 11459.16'
CENTERLINE REFERENCE MONUMENTS WILL BE SET DURING OR AFTER CONSTRUCTION
Monument
Tangent
℄ Survey
P.O.T. 1134+50
P.O.T. 1153+60
P.O.T.
P.O.T. 1180+00
P.I. 1199+76.274
P.T. 1203+31.660
P.O.T. 1214+00

NOTE: OFFSET STATIONS FIGURED AT RIGHT ANGLES TO TANGENT. STATIONING CONTINUOUS FROM P.C. THROUGH P.I. TO P.T. STATION EQUATION AT P.T.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

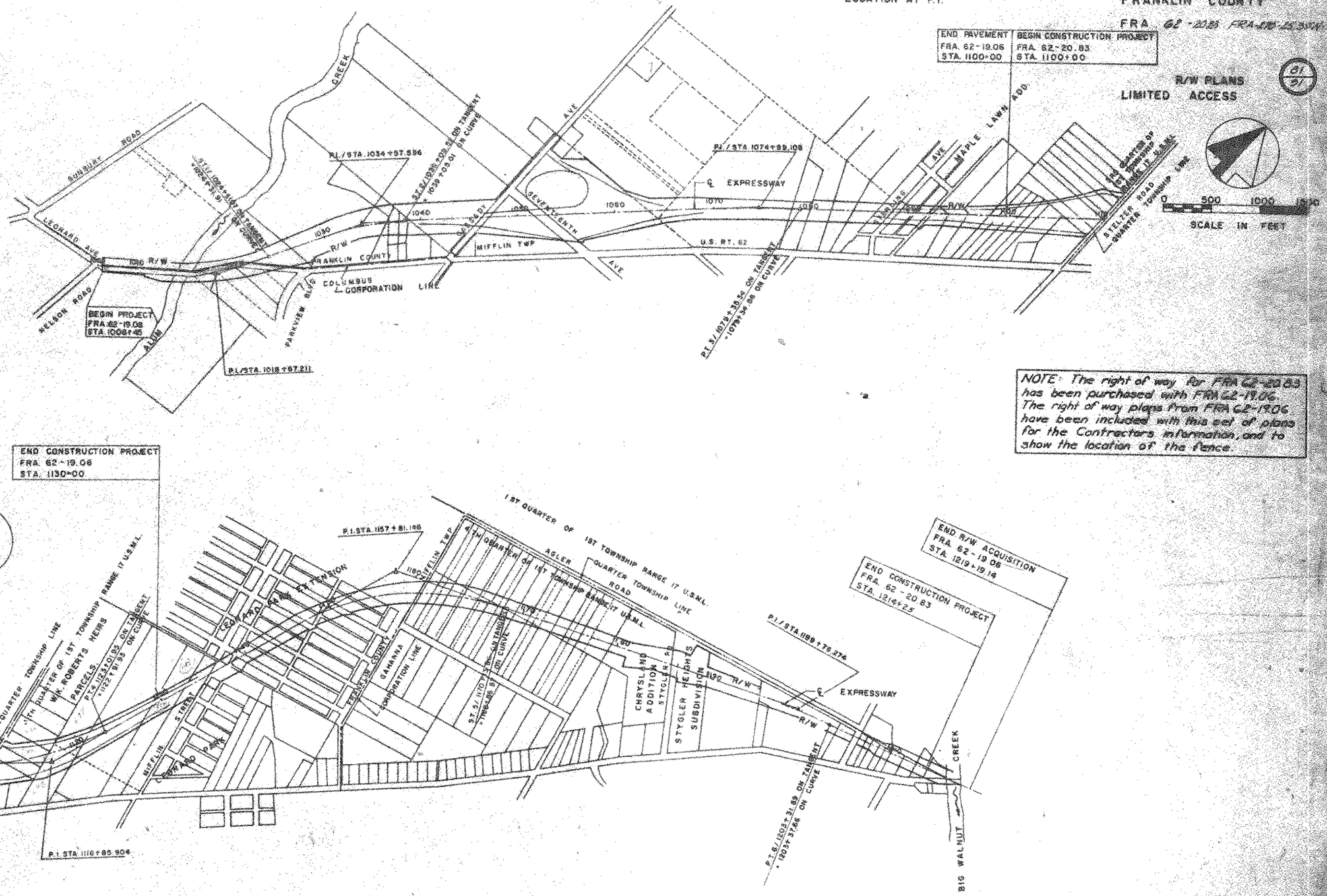
FRANKLIN COUNTY

FRA. 62-20.83 FRA-270-25.30 N

R/W PLANS
LIMITED ACCESS

81/91

END PAVEMENT	BEGIN CONSTRUCTION PROJECT
FRA. 62-19.06	FRA. 62-20.83
STA. 1100+00	STA. 1100+00



0 500 1000 1500
SCALE IN FEET

NOTE: The right of way for FRA 62-20.83 has been purchased with FRA 62-19.06. The right of way plans from FRA 62-19.06 have been included with this set of plans for the Contractors information, and to show the location of the fence.

R/W SCHEMATIC PLAN

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY

FRA 62-20.83 FRA 270 20.39 N

R/W PLANS

LIMITED ACCESS

62-57

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
1WL	Ladies Literary Institute of	580	11	32.75	1.19 Ac	None	30.51			0.69 old road
1X	Saint Mary's of the Springs	"	"	"	0.44 Ac	"				
1TS	" " "	"	"	"	0.07 Ac	"				
2	Harry E. Schmidt	810	568	0.86	0.08 Ac	"		0.85		
3	Catherine H. Larrimer	1350	510-508	0.52	0.06 Ac	"		0.46		
"	" " "	1367	430	"						
4	Donald E. & Joanna R. Ramey	2232	204	0.14	0.02 Ac	"		0.13		
5	Edward W. & Helen L. Verne	1244	55	0.29	0.08 Ac	"		0.21		
6	"	2330	667	0.15	0.10 Ac	"		0.05		
7WL	Richard P. Schmidt	1786	289	12.10	0.61 Ac	"		11.49		0.29 Old Road
7T		1786	289	12.10	0.18 Ac	"				
8WL	Lutheran Welfare League	2069	282	17.42	0.45 Ac	"		16.97		(L)
9WL	Commissioners of Franklin									
	County	517	128	0.60	0.60 Ac	"				Complete Take
10	Arle K. Damanye	2121	684	8.15	5.04 Ac	"	5.12			
10A	" " "	"	"	"	0.09 Ac	"				0.09 Old Road
10WL	" " "	"	"	"	1.39 Ac	"				0.39 Old Road
10WA	" " "	"	"	"		"				
11WL	Ellen B. Lisle	959	527	6.42	0.78 Ac	"		5.64		
12WL	Anna K. & Samuel A. Chadwell	1323	439	1.50	0.41 Ac	"		1.09		
12AWL	Anna K. Chadwell	1057	255	1.00	0.06 Ac	"		0.94		
13	Nellie F. Dorsey	621	266	29.15	11.86 Ac	"	17.56			
13WL	" " "	"	"	"	1.43 Ac	YES		9.72		
13SL	" " "	"	"	"	0.48 Ac	None				
14WL	James F. & Dorothy S. Entsminger	2177	225	1.10	0.08 Ac	"		1.02		
15	Marjorie M. Daniels	1734	113	4.06	0.32 Ac	"	2.66			Residue left includes 15WL 15SL
15WL	" " "	2185	76	"	0.74 Ac	"		0.66		
15SL	" " "	"	"	"	0.09 Ac	"				
16WL	William H. & Marjorie Jackson	1911	201	0.93	0.34 Ac	"		0.59		
17WL	Chauncey L. Davey	2124	270	1.82	0.29 Ac	"		1.53		
18	The Champion Amusements Co.	1913	163	47.00	0.20 Ac	"				0.19 Old Road Residue left Par. 18WL
18A	" " " "	"	"	"	1.33 Ac.	"				includes acquired 4 Par. 18 Residue Pt. includes
18WL	" " " "	"	"	"	4.71 Ac	"	4.00	1.89		0.28 Old Road Par. 18A
19	William A. Lewis	315	202	20.00	0.31 Ac.	"	19.69			0.21 Ac in Coss Ave
19A	Mary J. Shull	318	179	20.20	0.16 Ac.	"	20.04			0.12 Ac. in Coss Ave
19B	Wilbur L. & Mary D. Shull	1122	142	1.00	0.08 Ac.	"	0.92			0.09 Ac. in Coss Ave.
20TS	The Standard Oil Co.	1759	338	0.82	0.05 Ac	"				
21WL	Mound Realty Co.	2216	420	11.57	8.32 Ac.	"		3.26		1.49 Ac in 17th Ave & U.S. Rt. 62
22WL	Ruth Shull, Paul Shull and Wilbur L. Shull	1197	158	24.25	16.82 Ac.	"	0.35(L)	7.08		0.71 Ac in 17th & Coss Ave
23	Walter J. Jr. & Dorothy Engle	1453	575	0.69	0.03 Ac.	"		0.66		0.09 in exist road
24WL	Walter J. Engle Inc.	1931	584	38.71	1.08 Ac.	"	37.63			
20A	Oscar D. Spencer etal (4)	1956	206	0.41	0.05 Ac.	"	0.36			0.07 in exist road
8T	Lutheran Welfare League	2069	282	1742	0.19 Ac	"				
11T	Ellen B. Lisle	959	527	6.42	0.230 Ac	"				
12T	Anna K. & Samuel A. Chadwell	1323	439	2.30	0.008 Ac	"				
2A	Isabel P. Charles	1938	305		0.003 Ac	"				
3A	Catherine H. Larrimer	1350	508		0.003 Ac	"				
1WA	Ladies Literary Institute of St. Marys of the Spring	168	167	32.75						
10X	Arrie A. Damanye	2121	684	8.15	0.02 Ac					
13A	Nellie F. Dorsey	621	266	29.15	0.3 Ac					
12AT	Anna K. Chadwell	1057	255	1.00	0.01 Ac					
12AT-1	" "	"	"	"	0.01 Ac					

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO	REMARKS
25WL	Alpha Ebner (LE)	1062	320	98.00	6.52 Ac	None	33.89	7.59		33.89 Ac. tract separated from farm
26	Clancy B. & Melissa E. Woodard	2131	264	4.72	0.06 Ac	"				bldgs.
26WA &	26WA-1 & 26WA-2 " "	"	"	"		"				
26WL	" " " " "	"	"	"	1.05 Ac.	"	2.02	1.65		0.05 Ac. acquired on left as Par 28
27	Arthur L. & Margaret M. Hedges	1664	311	8.30	0.29 Ac.	"				
27WA	" " " " "	"	"	"		"				
27WL	" " " " "	"	"	"	0.87 Ac.	"	6.99	1.54		0.29 Ac. acquired on left as Par 27
28	Louis C. & Elizabeth J. Wallick	2128	449	7.48	0.32 Ac.	"				
28WA &	28WA-1 & 28WA-2 " "	"	"	"						
28WL	" " " " "	"	"	"	0.98 Ac.	"	5.97	1.22		0.32 Ac. acquired on left as Par 28
29	Lulu M. Osborne	1263	118	6.00	0.37 Ac.	"				
29WL	" " "	"	"	"	1.10 Ac.	"	3.68	1.22		0.27 Ac. acquired on left as Par 29
30WL	Ida M. Dysart	410	360	0.29	0.11 Ac.	Yes		0.18		Lots 11 & 12
31	Jean R. Mengert	955	16		0.17 Ac.	None				Subdivided Lots (Unimproved)
31WL	" " "	919	21	0.03	0.58 Ac.	"	0.14			Lots 13, 14, 15, 16, 17, 18
31A	" " "	"	"		0.19 Ac.	"				
31AWL	" " "	"	"	1.06	0.78 Ac.	"	0.12	0.01		Lots 187-184 incl
31B	" " "	"	"		0.16 Ac.	"				
31BWL	" " "	"	"	1.39	0.79 Ac.	"	0.21	0.20		
32WL	Esther M. Willford	1241	559	0.26	0.05 Ac.	"		0.21		
33WL	Arthur T. & Mary Louise Morgan	1562	456	3.01	0.72 Ac.	"		2.29		Land Contr. John W. & Mary E. Hayes
34	Frederick H. & Helen M. Coseo	1267	602	5.98	0.46 Ac					
34WL	" " " " "	"	"	"	0.93 Ac	"	3.92	1.11		Residue left includes Par 34
35	Hazel M. Schuster	2087	553	5.98	0.58 Ac	"				
35WL	" " "	"	"	"	1.36 Ac	"	2.37	2.25		Residue left includes Par 35
36	William Joseph & Dorothy V. Simpson	1341	499	2.00	0.20 Ac.	"				Left side residue includes
36WL	" " " " "	"	"	"	0.65 Ac.	"	0.49	0.86		80 Ac acquired as Par "36
37	Forrest I. & Pauline L. Angle	1421	78	3.71	0.42 Ac.	"				Also Deed Book 1482 Page 519
37WL	" " " " "	"	"	"	1.65 Ac.	Yes	0.56	1.50		0.48 Ac of Residue left as Par 37
38	Edythe G. Carson	1744	635	3.30	0.03 Ac.	None				
38WL	" " "	"	"	"	1.65 Ac.	"	0.03	1.62		Residue left acquired as Par 38
39WL	Leo H. & Helen C. Miller	1621	176	2.78	1.80 Ac.	"		0.98		
40	Rose D. Wolman, Lillian Danziger	1920	533	4.06	0.95 Ac.	"				
40WL	" " " " "	"	"	"	1.11 Ac.	"		2.95		Residue to be used as waste excavation area Right side residue of Par.
41	Chesterfield Homes Inc	1875	161	5.44	0.51 Ac.	"				40WL includes .95 Ac as Parcel 40
41WL	" " "	"	"	"	3.36 Ac.	Yes	2.08			Residue Pt. includes Par 41
42WL	Louis C. & Arkie B. Nicklaus	1338	203	3.41	1.53 Ac.	None	1.88			
42X	" " "	"	"	"	0.04 Ac.					
43	Emil A. & Fannie E. Rickert	2138	419	4.22	0.08 Ac.	"				0.08 in exist Rd
44	Robert L. & Alberta M. Hammond	1668	100	0.70	0.17 Ac.	"	0.53			
44WL	" " " " "	"	"	"	0.58	Yes				
45WL	Otis & Betty J. Blackburn	1702	572	1.42	1.42 Ac.	Yes				
46WL	Bernard J. & Rita M. Kline	2186	264	1.37	1.37 Ac.	Yes				
47WL	Lester W. Huber	1153	611	2.06	1.96 Ac.	Yes				
48	Lester W. & Lillian V. Huber	1352	116	2.02	0.06 Ac.	None				0.06 Ac in exist Road
48WL	" " " " "	"	"	2.02	0.83 Ac.	None	1.19			0.06 Ac of Residue left in Par. 48
48WA	" " " " "	"	"	2.02	0.01 Ac.	"				
49WL	John C. & Marzuella H. Webb	2059	253	2.00	0.11 Ac.	"	1.89			0.03 Ac of Residue left in Par. 49
49A	Harold & Janet White	1980	76	4.22	0.14 Ac.	"	4.08			0.18 Ac inexisting Road
32WA	Esther M Willford	1241	559		0.01 Ac.					
40B	Catherine L. & Raymond C. Underwood	1682	128	4.22	0.01 Ac	None	4.21			0.09 Ac. in exist Road
43WL	Emil A. & Fannie E. Rickert	2138	419	4.22	0.64 Ac	None	3.58			0.14 Ac. in exist Rd Residue Includes Par 43
43X	" " "	"	"	"	0.08 Ac	None				
40	John C. & Marzuella H. Webb	2059	253		0.08 Ac	None				0.07 Ac. in exist Road
44S	Robert L. & Alberta M. Hammond	1668	100	0.70	0.08 Ac	None				
44AS	Clyde W. & Ethel J. Nicewarmer	1103	568		0.03 Ac	None				
32WA	Esther M. Willford	1241	559	0.26						
48S	Lester W. & Lillian V. Huber	1352	116	2.02	0.07 Ac	None				
49S	John C. & Marzuella H. Webb	2059	253	2.00	0.005					
40T	Rose D. Wolman & Lillian Danziger	1920	533	4.06	0.29					For Right-of-way Purposes

FED. ROAD SYSTEM	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY

FRA-G2-2083 FRA-270-25.39 N

R/W PLANS

LIMITED ACCESS

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
50 WL	Isaac F. Roberts	294	485	14.42	3.67	None	8.10	2.65		
51 WL	John E. & Phyllis N. Cassias	1450	390	17.72	4.68	None	7.61	5.43		
52 WL	Henry J. & Mary Donna Newman	1535	276	8.32	2.08	None	2.15	4.09		
53 WL	Vedo Justice	2046	161	0.64	0.06	Yes		0.58		
54 WL	Eddy E. & Abbie O. Ayers	2046	142	0.42	0.42	Yes				
55 WL	Metzger Mortgage and Investment Co	2804	369	0.24	0.24	Yes				
56 WL	Ralph George & Helen Mildred Durwell	2169	203	0.92	0.70	Yes	0.22			
57 WL	Theodore R. & Venecia Harkess	2095	242	0.96	0.96	Yes				
58 WL	Curtis E. Bartley	905	309	0.13	0.13	None				
58 A WL	Harry Masser	1298	515	0.13	0.13	None				Also owns 61, 71 WL, 84 WL, 89 WL, 130 WL, 131 WL
58 B WL	Edward E. & Flora J. Colwell	959	187	0.13	0.13	None				
59 WL	Edward Lovimer	1864	121	0.13	0.13	None				
60 WL	Henry III & Margaret C. Burr	1703	516	0.12	0.12	None				
61	Harry Masser	1298	515	3.12	0.35	None		2.01		
61 A	Ruth M. Mennen	2201	[illegible]	0.18	0.08	None		0.10		
63	(Not Used)									
64 WL	Joseph M. & Rose B. Elliott	896	465	0.13	0.13	None				
65 W.D	Alice L. Moore	1711	3	0.18	0.13	None				
66	[illegible]			0.13	0.01	None		0.12		
67 WL	Donald & Wanda Miller	1896	47	0.27	0.27	Yes				
	" "	1687	49							
68	John C. & Sylvia L. Miller	1793	464	0.27	0.12	Yes		0.15		
68 WL	" "	1917	496	0.13	0.01	Yes		0.12		
69 WL	Caleb V. Binkley "	945	50	0.13	0.04	None		0.09		
70 WL	Ernest & Margaret Preece	1824	202	0.40	0.40	Yes				
	" "	1824	204							
71 WL	Leona Boehler	969	96	0.13	0.13	None				
72 WL	Adah Jane Long	2651	268	0.18	0.05	None	0.08			Also Deed Book 323 Page 575
73 WL	William D. & Vahnie M. Korbel	2264	306	0.13	0.01	Yes	0.12			Also owns lot "A"
74 WL	Harry Masser	1298	515	0.18	0.02	None	0.11			
75 WL	Earl E. & Kathryn Watson	882	373	0.13	0.13	None				
76 WL	William F. & Faye M. Wunderle	945	181	0.13	0.13	None				
77 WL	Harry Masser	1298	515	0.18	0.13	None				
78 WL	Ethel Muzum	968	296	0.13	0.13	None				
79 WL	Dominic & Mary Romeo	959	530	0.13	0.11	None		0.02		
80 WL	Continental Development Co.	800	103	0.13	0.02	None		0.11		
81 WL	Mary Masser	1298	604	0.18	0.08	None		0.10		
82 WL	Emerson W. & Helen B. Mays	1073	290	0.13	0.13	None				
83 WL	Mary Masser	1868	606	0.13	0.13	None				
84 WL	Harry Masser	1298	515	0.40	0.31	None	0.09			
	" "	1901	498							
85 WL	Allen & Esterah Blackburn	2018	486	0.13	0.02	Yes	0.11			Also 65 WA
86 WL	Caroline E. Justliam	2281	[illegible]	0.13	0.04	None	0.10			
87 WL	Horace C. Anderson	1953	322	0.27	0.27	None				
88 WL	Mary Masser	1868	616	0.13	0.13	None				
89 WL	Harry Masser	1298	515	0.13	0.13	None				
90 WL	A. G. Shaw	Unknown		0.13	0.13	None				
91 WL	John D. & June C. Stewart	1950	142	0.18	0.02	None		0.11		
66 WA	John C. & Sylvia L. Miller									
73 WA	William D. & Vahnie M. Korbel									

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO	REMARKS
92 WL	Salvatore & Anna Mascola	969	131	0.18	0.01	None		0.12		
93 WL	Mary Masser	1862	602	0.13	0.08	None		0.05		
94 WL	Bayard C. & Katherine Temple	1002	213	0.13	0.13	None				
96 WL	Geneva C. Yake et al	2242	37	0.77	0.77	Yes				
95 A WL	Mary Masser	1862	586	0.27	0.27	None				
	" "	1868	600							
98 WL	Stanley Davis	1712	84	0.13	0.08	None	0.05			
99 WL	William & Mary C. Worthington	1960	350	0.86	0.66	Yes				
99 A WL	Boone F. Betty N. Preece	1879	41	0.13	0.02	None	0.11			
99 WL	Elizabeth D. Keller	1002	601	0.13	0.09	None	0.04			
100 WL	Reuben C. & Ollie G. Boys	924	208	0.13	0.13	None				
101 WL	Russell & Matilda Reel	1825	310	0.18	0.13	Yes				
102 WL	Raymond E. Schlender	1897	267	0.13	0.13	None				
103 WL	Carl E. Reisch	1900	207	0.07	0.07	None				
104 WL	Margaret Read & Grover F. Read	1950	496	0.07	0.02	None		0.05		
105 WL	David F. Operaick	940	169	0.13	0.05	None		0.08		
107 WL	Virgil E. [illegible] & Clee Kler	[illegible]	579	0.13	0.13	None				
108 WL	Clyde Pratt	1846	280	0.27	0.27	Yes				
	" "	1890	508							
109 WL	Harry Masser	1298	515	0.27	0.22	None	0.05			
110 WL	Lola E. Jerman	959	75	0.13	0.01	None	0.12			
111 WL	Robert R. & Lucille P. Westcott	1636	64	0.13	0.05	Yes	0.08			
112 WL	Jacob L. & Kathryn Jean Wanner	2895	131	0.13	0.13	Yes				
113 WL	Frank S. Fall	1208	54	0.13	0.13	None				
114 WL	Sale & Reva Shannon	1506	681	0.13	0.13	None				
115 WL	Caroline W. Boge	954	493	0.13	0.13	None				
116 WL	S. P. Hoban	1221	326	0.13	0.07	None		0.06		
117 WL	Eva King	1210	601	0.13	0.02	None		0.11		
118 WL	Elbert L. Greene	2068	112	0.27	0.27	Yes				Also owns 186 WL
119 WL	George Kelly	1972	398	0.13	0.13	None				
120 WL	Harry Masser	1298	515	0.27	0.27	None				
121 WL	August J. Rehe	874	239	0.13	0.10	None	0.03			
122 WL	Virginia Bell	2.33	480	0.13	0.06	None	0.07			
123 WL	Phoebe J. & Elmer L. Affolter	982	113	0.18	0.01	None	0.12			
124 WL	Claude & Elizabeth Mundy	1633	314	0.27	0.01	None	0.26			
125 WL	Raymond M. Singer	1059	234	0.13	0.03	None	0.10			
126 WL	Elbert L. & Minnie Frantz	2313	291	0.13	0.08	None	0.05			
127 WL	Lucy J. Randall	889	40	0.13	0.02	None		0.11		
128 WL	Guy & Angeline M. Peterle	1663	488	0.13	0.13	Yes				
129 WL	Mary E. Mc Intyre	865	615	0.07	0.07	None				
130 WL	[illegible] Swartz			0.07	0.07	None				
131 A L	Cleo M. Maxwell	1755	650	0.13	0.13	None				
132 WL	George Stokely	739	444	0.40	0.04	None	0.36			

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

502

FRANKLIN COUNTY

FRA 62-20.83 FRA-270-25.39 N

R/W PLANS

LIMITED ACCESS

64
81

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	OWNER	AUD. PCL.	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
133 WL	D.M. & Janet Vagnone		2109	314	1.59	0.50	None	0.25 (L)	0.84		
134 WL	Clyde S. & Helen M. Farree		2074	367	2.06	0.67	None	0.14 (L)	1.25		
135 WL	Delmon & Martha M. Buell		1986	129	2.01	0.62	None		1.39		
136 WL	Elnora G. De Nerse		2079	2 4	2.06	0.03	None	2.03			
137 WL	Clifford L. Chapman		1978	410	2.06	0.80	None	1.86			
138 WL	Elnora J. Felch		1898	106	2.01	0.45	None		1.56		
139 WL	Donald W. & Miriam D. Hubbard		2046	405	2.01	0.89	None		1.12		
140 WL	Maurice O. Stone		1819	348	2.06	0.36	None	1.70			
141 WL	Lee A. & Marjorie L. Parsons		2068	339	2.06	0.41	None	1.65			
142 WL	William F. Dyan		2148	564	2.01	0.81	None		1.80		
143 WL	Bernard F. & Juanita Baker		1749	300	2.01	0.14	None		1.87		
144 WL	Robert N. & Marilynn F. Weidner		2065	402	2.06	0.50	None	1.56			
145 WL	Lorraine C. Weidner		2353	476	2.06	0.68	None	1.48			
146 WL	Richard R. & Ruth Ella Gibbons		2345	614	2.01	0.06	None		1.95		
147 WL	Albert L. & Lula Wilson		1851	476	2.01	0.01	None		2.00		
148 WL	James A. & Lorraine Weidner		1711	603	4.11	1.28	None	2.82	0.01 (L)		
	" "		2185	810							
149 WL	George W. & Olga E. Neal		2090	583	2.06	0.64	None	1.28	0.14 (L)		
150 WL	Gustav W. & Rosalee Carson (Dec)		1698	169	2.06	0.64	None	1.21	0.21 (L)		James L. & Roseanne M. McR[illegible]
151 WA	Louis N. & Phyllis M Carswell		1676	477	3.01						
151 WL	" "		"	"		1.96	Yes	0.94	0.71 (L)		
152 WL	Edwin W. & Viola G. Schmidt		1805	4[illegible]	3.09	0.62	None	2.15	0.32 (L)		
	" "		1810	96							
153 WL	Vernie & Helen Koker		1809	[illegible]	1.64	0.89	None	0.73	0.39 (L)		
154 WL	Bernard C. & Vera L. Knudsen		2065	558	1.64	0.55	None	0.65	0.44 (L)		
155 WL	Hensel A. & Helen T. Campbell		2062	665	0.57	0.05	None	0.52			
156 WL	Roy R. & Dorothy C. Barth		1810	475	0.86	0.86	Yes				
* 157 WL	Reed C. & Mardell Fetter		2096	141	0.95	0.06	None		0.89		
* 158 WL	Nellie M. & Newton D. Filley		1976	286	0.66	0.14	Yes		0.31		
159 WL	Fritz E. Wolfe		1940	287	0.66	0.66	Yes				
* 160 WL	Morris L. Mattlin	* 1038	2203	355	1.03	0.20	None	0.46			
161 WL	George R. Schott		885	476	12.00	2.61	None	2.04	7.35		
162 WL	Lucy Althoff		878	225	1.00	0.06	None		0.94		
163 WL	Elma M. Schneider		976	110	10.64	4.71	None		5.93		
* 164 WL	Lawrence L. & Hulda L. Luff		2379	253	2.04	0.80	None		1.24		Also owns 171 WL
165 WL	George T. & Elsie A. Ryther		2208	670	1.00	0.40	None		0.60		
166 WL	Columbus & Southern Ohio										
	Electric Co.		1179	383	0.17	0.17	None				
167 WL	Carl H. Bauer		092	651	0.64	0.22	Yes		0.32		
168 WL	Wm. E. & Marzuella Earnshaw		1672	30	1.00	0.44	Yes		0.56		
169 WL	Alma K. & Alice Storey		1838	241	1.00	0.43	None		0.57		
169 TS	" " "		"	"	1.00	0.07	None				Land Fill
170 WL	Mifflin Twp. Trustees		Unknown			0.04	None				Graves to be moved
171 WL	Lawrence L. & Hulda L. Luff		1992	[illegible]	1.80	1.47	Yes	0.33 (L)			
172 WL	Mary C. & Eugene E. Bass Sr.		2065	661	6.08	1.63	None	4.294	0.57		
172 TS	" " " "		2065	661	6.08	0.21	None				Land Fill
* 173 WL	Anna E. Dutrow		1958	92	1.21	0.02	None		1.12		0.07 Present Rd
174 WL	Lillian Bender		2934	179	0.06	0.02	None	0.04			
175	A.T. & Joseph Tannerino		2046	44	0.15	0.01	None		0.14		
176	Walter L. & Elmer S. Sindel				0.07	0.07	Yes				Lot #32
176 T	Huntington Nat'l. Trs.		"	67		180 [32/33]					To remove building
	Grace Powell		"	"							
179 X	Anna E. Dutrow		1838	82	1.21	0.39					0.05 Present Rd

PARCEL NO.	OWNER	AUD. PCL.	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
171 X	Lawrence L. & Hulda L. Luff		1992	42	1.80	0.09	None				
173 T	Anna E. Dutrow		1858	82	1.21	0.14	Yes				Includes 0.08 Ac. Occ.
177 X	Veterans of Foreign Wars Post # 4119		1591	507		0.98	None				
177 U	Veterans of Foreign Wars Post 4119		1591	507		0.07	None				
* 157 AT	Elmo R. & Saundra L. Sayers	* 1039	2482	32	0.80	0.05		-	0.89		To build driveway in residue of 157 WL
157 B	Raymond W. & Harriet A. Phillips	* 1034	2515	506	0.66	0.03		-	0.63		
* 158	Nellie M. & Newton D. Filley	* 1033	1976	286	0.66	0.21	Yes				
* 158 T						0.05					To remove house
* 160	Morris L. Mattlin	* 1038	2203	355	1.03	0.37					

FED. RD. DISTRICT	STATE	PROJECT	
2	OHIO		

503

FRANKLIN COUNTY

FRA. 62-20.83 FRA-270-25.39 N

35/51

R/W PLANS

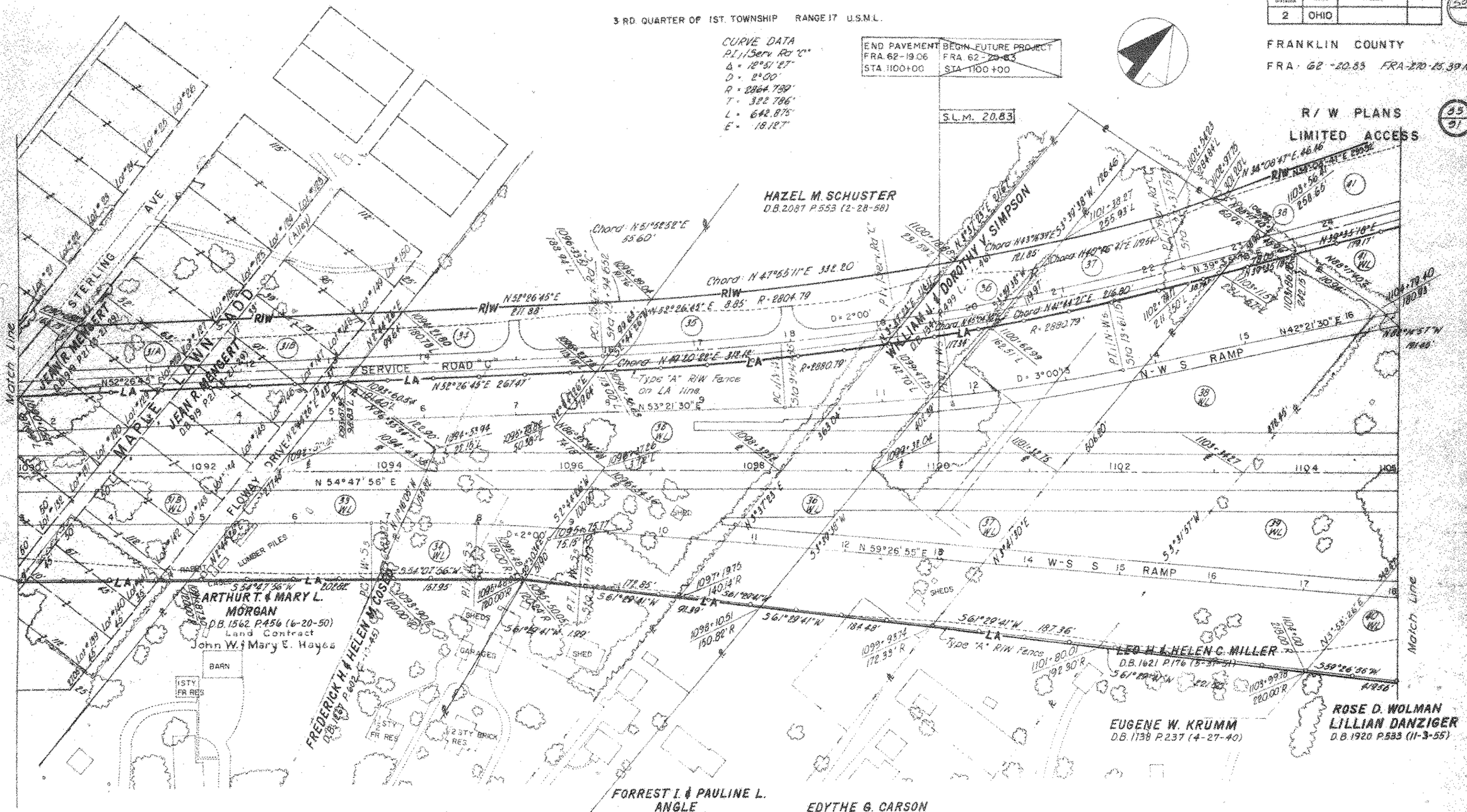
LIMITED ACCESS

3 RD. QUARTER OF 1ST. TOWNSHIP RANGE 17 U.S.M.L.

CURVE DATA
P.I.1/Serv. Rd "C"
Δ = 12°51'27"
D = 2°00'
R = 2864.789'
T = 322.786'
L = 642.875'
E = 18.127'

END PAVEMENT	BEGIN FUTURE PROJECT
FRA. 62-19.06	FRA. 62-20.83
STA. 1100+00	STA. 1100+00

S.L.M. 20.83



Note: Centerline of survey described in warranty deeds and easements is the centerline of the proposed right of way as shown on the plans.

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY
1090 TO 1105

FED. OR DIVISION	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY

FRA - 62 - 20.83 FRA-270-26.39M

R/W PLANS

LIMITED ACCESS

CATHERINE L. & RAYMOND C. UNDERWOOD D.B. 468Z P.128 (5-29-52)

HAROLD & JANET WHITE D.B. 1980 P.76 (8-21-56)

JOHN C. & MARZUELLA H. WEBB D.B. 2059 P.253 (9-10-57)

CHESTERFIELD HOMES INC. D.B. 1875 P.161 (1-55)

HUGO KAISER'S PARCELS

EMIL A. & FANNIE E. RICKERT D.B. 2158 P.419 (10-30-58)

LESTER W. & LILLIAN V. HUBER D.B. 1952 P.116 (11-13-46)

LESTER W. HUBER D.B. 1103 P.581 (9-19-40)

HEIRS PARCELS

LOUIS C. & ARKIE B. NICKLAUS D.B. 1398 P.203 (8-31-46)

BERNARD J. & RITA M. KLINE D.B. 1486 P.264 (6-16-59)

ROBERTS

W. K.

LEO H. & HELEN C. MILLER D.B. 1621 P.176 (6-29-51)

ROBERT L. & ALBERTA M. HAMMOND D.B. 1668 P.100 (3-18-58)

OTIS & BETTY J. BLACKBURN D.B. 1702 P.572 (9-20-52)

ROSE D. WOLMAN & LILLIAN DANZIGER D.B. 1920 P.583 (11-3-55)

CLYDE W. & ETHEL J. NICEWARMER D.B. 1103 P.568 (10-6-39)

LEWIS H. ROBERTS & CLAY W. ROBERTS D.B. 752 P.100 (12-1-24)

ISAAC F. ROBERTS D.B. 294 P.488 (6-24-1897)

JOHN E. & PHYLLIS N. CASIAS D.B. 1450 P.560 (7-27-61)

DONALD M. & MARY V. FISHER D.B. 1723 P.370 (10-19-58)

SERVICE ROAD "C"

N-W-S RAMP

W-S-S 20 RAMP

S-E-S 3 RAMP

E-N-S RAMP

ROAD "C" 30

SERVICE ROAD "C"

SLEITER ROAD

CONSTRUCTION LIMITS

Match Line

EXISTING U.S. RT. 62

Type "A" R/W Fence

Type "C" R/W Fence

Existing R/W

Existing Right of Way

Exist. Well To be Abandoned

Lot # 1 Lot # 2 Lot # 3 Lot # 4 Lot # 5 Lot # 6 Lot # 7 Lot # 8 Lot # 9

CURVE DATA (P.I. & EXPRESSWAY)

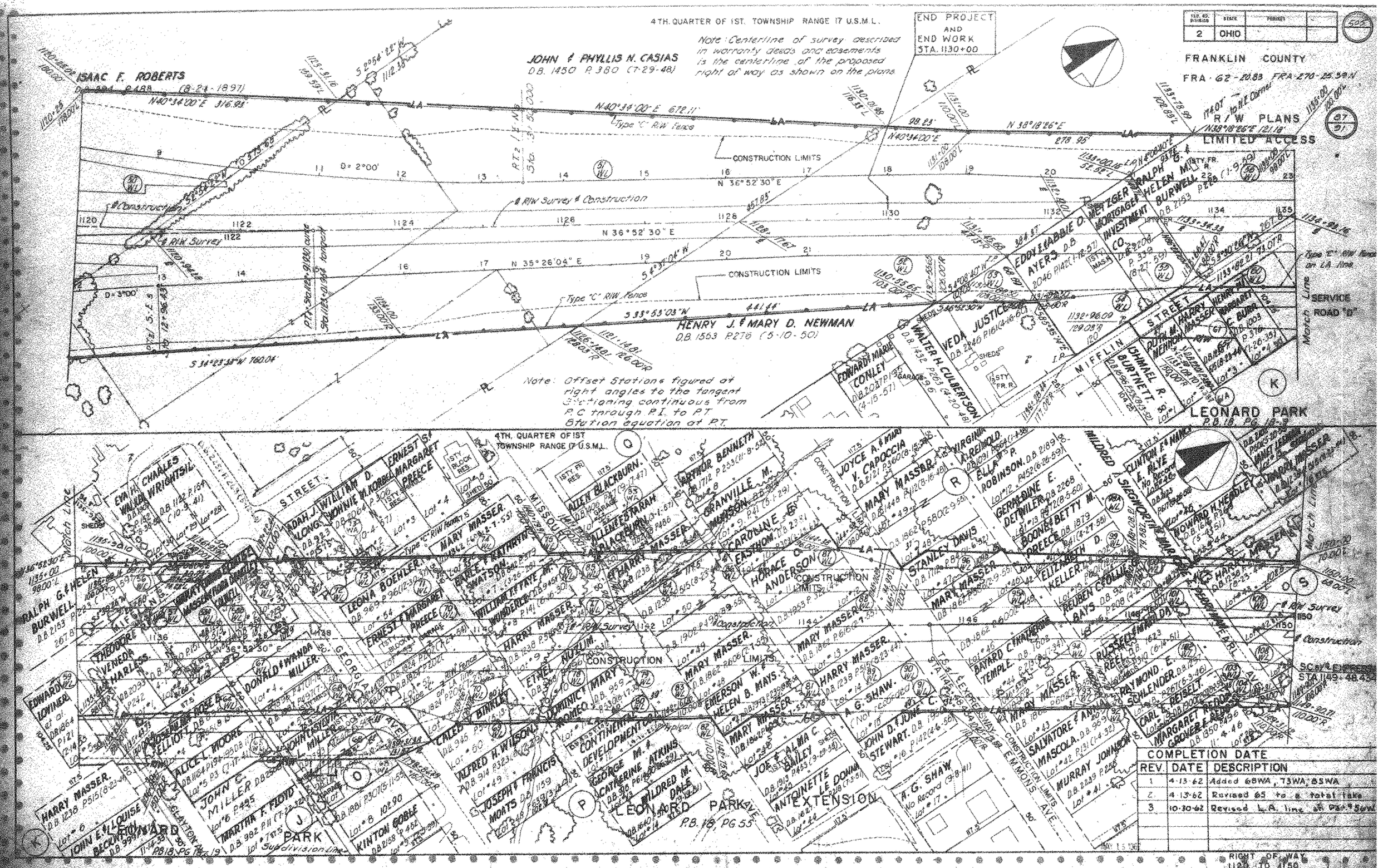
Δ = 17° 08' 46"
D = 1° 29'
T = 66.08'
E = 46.28'
R = 3908.65'
L_c = 1228.07'
P.I. STA. 1115+88.90

Note: Centerline of survey described in warranty deeds and easements is the centerline of the proposed right of way as shown on the plans

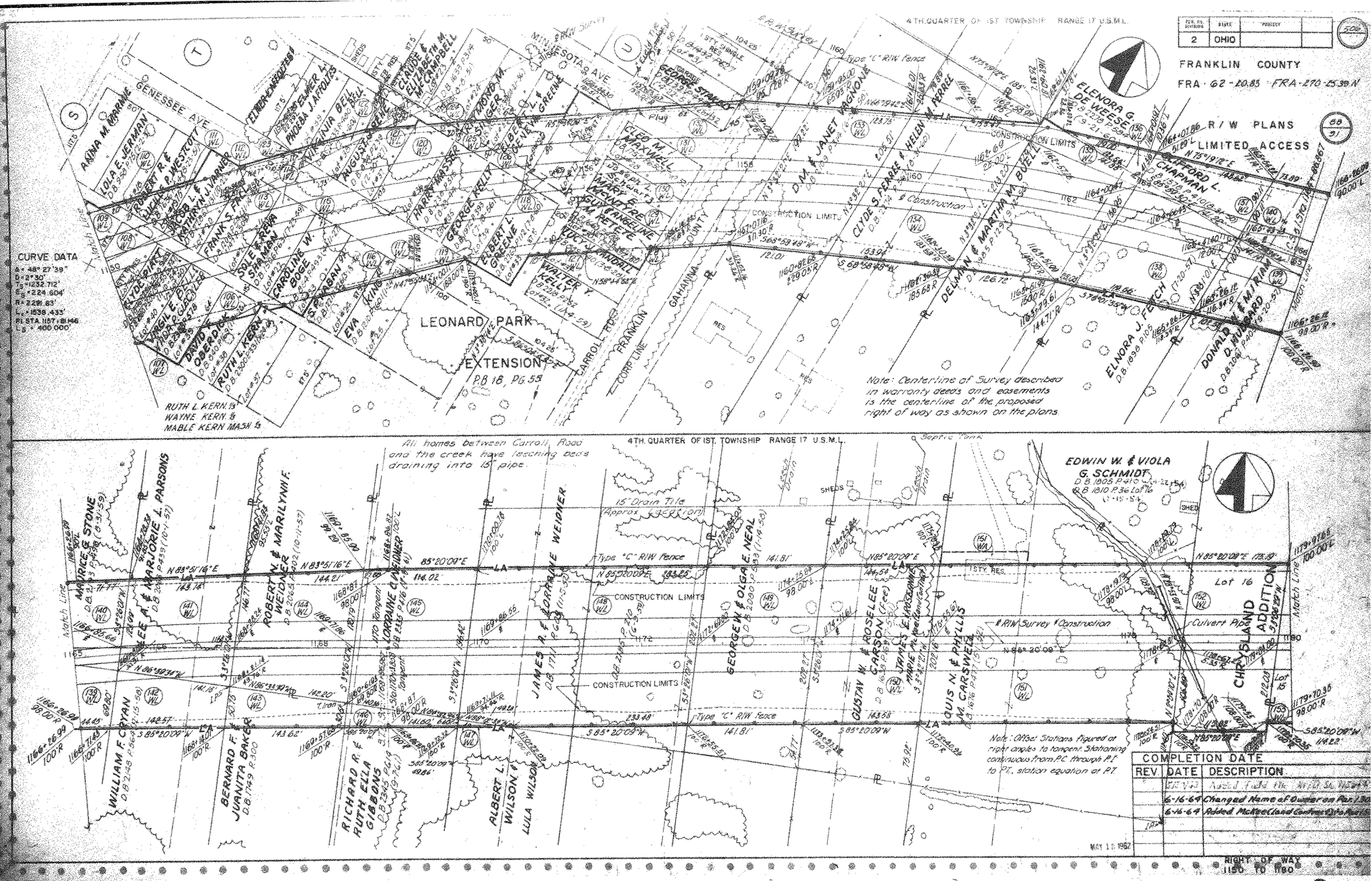
COMPLETION DATE		
REV.	DATE	DESCRIPTION
1	6-15-62	Added Line & Pipe Par. "A"
2	6-19-62	Added Par. "49"
3	8-23-62	Added Par. "40T"

MAY 15 1962

RIGHT OF WAY 1105 TO 1120



4TH. QUARTER OF 1ST. TOWNSHIP RANGE 17 U.S.M.L.
Note: Centerline of survey described in warranty deeds and easements is the centerline of the proposed right of way as shown on the plans.
END PROJECT AND END WORK STA. 1130+00
FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39N
R/W PLANS
LIMITED ACCESS
ISAAC F. ROBERTS
JOHN & PHYLLIS N. CASIAS
D.B. 1450 P. 380 (7-29-48)
HENRY J. & MARY D. NEWMAN
D.B. 1553 P. 276 (5-10-50)
CONSTRUCTION LIMITS
Type "C" R/W Fence
Note: Offset Stations figured at right angles to the tangent. Stationing continuous from P.C. through P.I. to P.T. Station equation at P.T.
SERVICE ROAD "D"
LEONARD PARK
P.B. 18, PG. 18-9
4TH. QUARTER OF 1ST TOWNSHIP RANGE 17 U.S.M.L.
LEONARD PARK EXTENSION
P.B. 18, PG. 55
COMPLETION DATE
REV. DATE DESCRIPTION
1 4-13-62 Added 68WA, 73WA, 85WA
2 4-13-62 Revised 65 to a total take
3 10-30-62 Revised L.A. line at Pst. 56W
RIGHT OF WAY 1120 TO 1150



FRANKLIN COUNTY
FRA-62-20.83 FRA-270-25.39 N
R/W PLANS
LIMITED ACCESS
4TH QUARTER OF 1ST TOWNSHIP RANGE 17 U.S.M.L.
CURVE DATA
Δ = 48° 27' 39"
D = 2° 30'
Ts = 1232.712'
Es = 224.604'
R = 2291.83'
Lc = 1538.433'
PI STA 1157+81.46
Ls = 400.000'
LEONARD PARK EXTENSION
P.B. 18, PG. 55
GENESSEE AVE
MINNESOTA AVE
CARROLL RD
FRANKLIN
CORP LINE
GAHANNA
CONSTRUCTION LIMITS
Type "C" R/W Fence
Note: Centerline of Survey described in warranty deeds and easements is the centerline of the proposed right of way as shown on the plans.
All homes between Carroll Road and the creek have leeching beds draining into 15" pipe.
15" Drain Tile (Approx Location)
EDWIN W. & VIOLA G. SCHMIDT
CHRYSLAND ADDITION
Lot 16
Lot 15
Culvert Pipe
Note: Offset Stations figured at right angles to tangent. Stationing continuous from P.C. through P.I. to P.T., station equation at P.T.
COMPLETION DATE
REV. DATE DESCRIPTION
6-16-64 Changed Name of Owner on Par. 130
6-16-64 Added McKee (Land Contract) to Par. 15
MAY 1 8 1962
RIGHT OF WAY 1150 TO 1180

DIST. NO. OUTLOOK	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY

FRA-G2-20.83 FRA-25.39 N

R/W PLANS 82/21

LIMITED ACCESS

4TH QUARTER OF 1ST. TOWNSHIP RANGE 17 U.S.M.L.

POINT OF ACCESS STA 1187+31.90 LT 48' WIDE

S R/W LINE, AGLER RD.

STYGLER ROAD RELOCATED

STYGLER RD.

CONSTRUCTION LIMITS

Type "C" R/W Fence

℄ R/W Survey

℄ Construction

Note: Offset Stations figured at right angles to the tangent. Stationing continuous from P.C. through P.I. to P.T. Station equation at P.T.

For additional R/W on Stygler Road see Sheet 16A

VERNILE & HELEN KOKER D.B. 1603 P 415 (7-1-54)

BERNARD C. & VERA L. KNUDSEN D.B. 2065 P 556 (10-11-57)

VENSEL A. & HALEN T. CAMPBELL D.B. 2062 P 665 (9-27-57)

STEVE & MARGARET BANISH D.B. 1894 P 332 (7-2-55) Parts of 12 & 13

GENEVA C. & YAKE, ETAL D.B. 2247 P 37 (3-24-60)

ROY H. & DOROTHY L. BARTH D.B. 1610 P 475 (5-19-54)

ADDITION

HEIGHTS

WILLIAM & MARY C. WORTHINGTON D.B. 1960 P 150

FRITZ E. WOLFE D.B. 1940 P 287 (2-23-56)

GEORGE R. SCHOTT 1190 D.B. 085 P 476 (3-1-24)

NELLIE M. FILLEY NEWTON D. FILLEY D.B. 1976 P 206 (Aug 3, 1956)

REED P. MARDELL FETTER

CHRYSLAND P.B. 24 PG. 20

M. L. MATTLIN D.B. 2203 P 855

MORRIS

1187+31.90 Expwy

19+00 Stygler Rd

For additional R/W on Stygler Road see Sheet 16A

POINT OF ACCESS STA. 1187+31.90 RT. 24' WIDE

1ST. QUARTER OF 1ST TOWNSHIP RANGE 17 U.S.M.L.

CEMETERY

AGLER RD.

QUARTER TOWNSHIP LINE

4TH QUARTER OF 1ST. TOWNSHIP RANGE 17 U.S.M.L.

CONSTRUCTION LIMITS

Type "C" R/W Fence

℄ R/W Survey

℄ Construction

P.I. 6 = Sta 1199+76.274

P.T. 6 = Sta 1209+31.28

ELMA M. SCHNEIDER D.B. 976 P 110 (12-3-31)

LUCY ALTHOFF D.B. 878 P 225 (11-14-52)

CURVE DATA
P.I.6 / ℄ EXPRESSWAY
Δ = 3°33'18"
D = 0°30"
R = 11459.16'
T = 355.614'
E = 5.916'
L = 711.00'
P.I. STA. 199+76.274

Note: Centerline of Survey described in warranty deeds and easements is the centerline of the proposed right of way as shown on the plans

COMPLETION DATE		
REV.	DATE	DESCRIPTION

MAY 15 1962

RIGHT OF WAY 1160 TO 1202

QUANTITIES																
SHEET													ITEM	QUANTITY	UNIT	DESCRIPTION
5	6	7	8	9	10	11	12	13	14	15	16					
2980	2990	1914	1495	2982	3006	3022	1056						55-18	19,277	L.F.	Fence, Type "A"
1844							*1778	*5989	*5991	*5136	*2104		55-18	28,262	L.F.	Fence, Type "C"

* Not to be constructed with FRA. 62-19.06

STATE	PROJECT	
OHIO		

FRANKLIN COUNTY

FRA. 62-20.83 FRA-270-25.39 (8)

R/W PLANS

LIMITED ACCESS

POINT OF ACCESS STA. 1205 + 95.70 RT. 25' WIDE

Note: Centerline of Survey described in warranty deeds and easements is the centerline of the proposed right of way as shown on the plans.

END FUTURE PROJECT FRA. 62 - 20.83 STA. 1214 + 00

BEGIN FUTURE PROJECT FRA. 62-20.39 STA. 1214+00

END FUTURE PROJECT FRA. 62-22.99 STA. 1218+20.05

1ST. QUARTER OF 1ST. TOWNSHIP RANGE 17 U.S.M.L.

4TH. QUARTER OF 1ST. TOWNSHIP RANGE 17 U.S.M.L.

CEMETERY

MIFFLIN TWP TRS

COLS. & SOUTHERN OHIO ELECTRIC CO. D.B. 1179 P. 330 6-24-41

LAWRENCE L. & HULDA M. LUFT D.B. 1979 P. 663

GEORGE L. & ELSIE M. RIDENOUR D.B. 2268 P. 470

PAUL L. & MARY M. TRAUTEN MASS. D.B. 2036 P. 196 (C-29)

CARL R. BAUER

ALFRED B. & MARZUELA EARNSHAW D.B. 1612 P. 293

ALMA J. STORER

ALICE STORER

MARY C. & EUGENE E. BOSS SR. D.B. 1066 P. 661 (10-16-51)

LAWRENCE L. & HULDA M. LUFT D.B. 1932 P. 215

BIG WALNUT

LILLIAN BENDER D.B. 2334 P. 179 (9-17-61)

ATF J. IANNARINO D.B. 2046 P. 944 (7-11-57)

GRANVILLE

DORTHA J. HARWARD ET AL

DOROTHY SHELBY D.B. 1942 Pg. 234 (13-2-56)

ANNA E. DUTROW D.B. 1858 P. 82 (1-2-55)

WESTERGAARD PARK ADDITION P.B. 22 PG. 5 Lot # 1

VETERANS OF FOREIGN WARS POST 4719 D.B. 1591 Pg. 507 (11-14-50)

EXISTING U.S. RT. 62

JAMES ROAD

RIDENOUR RD.

NOTCH LINE

CONSTRUCTION LIMITS Type "C" R/W Fence

QUARTER TOWNSHIP LINE

L&R/W Survey & Construction

METAL FRUIT STAND COMM.

GAS STATION

GARAGE COMM.

2 STY. FRAME COMMERCIAL

2 STY. FR

1 STY. FR RES.

1½ STY. FR RES.

SHED

GARAGE

WILLIAM S. HANNEL & THOMAS E. HITZ, TRS

COMPLETION DATE		
REV.	DATE	DESCRIPTION
1	4-13-62	Added 176WA
2	4-13-62	Added Begin & End of Future Proj.
3	7-10-62	Added Deed Bearings to Par. 176
4	7-31-62	Changed 176WA to 176T
I	8-31-62	Revised End Line Part 175
VI	8-14-64	Changed Part 176T to 176U

9-3-64 Revised 177U - Added 178U - Deleted 178U

MAY 15 1962

RIGHT OF WAY

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

503

FRANKLIN COUNTY
FRA-62-20.83
FRA-270-25.38N

R/W PLANS
LIMITED ACCESS

91/91

4TH. QUARTER OF 1ST. TOWNSHIP
RANGE 17 U.S.M.L.

R/W purchased under FRA-62-19.06

CHRYSLAND ADDITION

LOT 5 | LOT 6 | LOT 7 | LOT 8 | LOT 9 | LOT 10 | LOT 11 | LOT 12

REED P. & MARDELL FETTER

ROY H. & DOROTHY C. BARTH

GENEVA C. YAKE ETAL

HENSEL A. & HELEN T. CAMPBELL

Construction Limits

LA/RW

Exist. R/W

Exist. U.S. Route 62

STYGLER ROAD

Exist. R/W

16"W

Ex. 12" Pipe

Fire Hydrant

Ex. 12" Pipe

Ex. 10" Pipe

16"W

16" Water Main

12" Pipe

4" Gas Main

4" Gas Main

Patio

1-Story Stucco Res.

1-Story Frame Res.

1-Story Stucco Res.

1-Story Frame Res.

Block Top Drive

Circle Drive

+40' E. Res. Drive

+35' E. Res. Drive

Conc. Drive

Gas Pumps

Gas Station

1-Story Frame Res.

1-Story Frame Res.

1½ Sty. Fr. Res.

1½ Sty. Fr. Res.

1½ Sty. Frame Res.

Gravel Drive

Blacktop Drive

Light Pole

Conc. Curb

Storage Tanks

Gas Pump

Gas Station

Curb Cut

Blacktop Surface

Light Pole

Conc. Apron

12" Pipe

Conc. Curb

Conc. Apron

Light Pole

12" Pipe

Light Pole

Blacktop Drive

Conc. Curb

Conc. Apron

Light Pole

12" Pipe

Exist. R/W

Exist. R/W

Exist. R/W

24'G

Exist. R/W

BEGIN WORK STA. 5+90

WORK STA. 5+90

END WORK STA. 13+09

Sta. 13+10.67 ℄ Stygler Road

Sta. 10+00 ℄ Stygler Road
= Sta. 1187+31.90 ℄ Expressway

CURVE DATA
P.I. Sta. 7+47.26
Δ = 32°41'44"
D = 14°00'
R = 409.26'
T = 120.05'
L = 233.54'

CORA E. SNYDER

NELLIE M. FILLEY
NEWTON D. FILLEY

FRITZ E. WOLFE

WILLIAM L. & MARRY C. WORTHINGTON

STYGLER HEIGHTS SUBDIVISION

STYGLER ROAD RELOCATED

STYGLER ROAD

AGLER ROAD

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY

GENERAL INFORMATION

INTRODUCTION

The project consists of a major relocation of USR 62, approximately 4 miles in length, beginning at Nelson Road in Columbus, extending northeastward, terminating at the intersection of existing USR 62 and Big Walnut Creek, in Gahanna. There are two interchanges, at Cassady and 17th Avenues, and at Stelzer Road.

The proposed grade indicates following:

USR 62 Mainline – cuts, generally on the order of 5 to 10 feet in depth, but as deep as 22 feet, and fill embankment generally on the order of 5 to 10 feet in height, but as high as 28 feet.

Stelzer Road Interchange – existing profile for interchange not available at time of soil profile drawing preparation.

GEOLOGY OF THE PROJECT

The alignment traverses the relatively flat glaciated Till Plain Region, having moderately thick glacial-derived soils; and the deeply filled valley of Alum Creek, reported to be on the order of 200 feet deep. Local bedrock is comprised of shale of the Olentangy and Ohio formation, Devonian age.

EXPLORATION

Exploratory borings were made by means of truck-mounted mechanical earth auger and hand auger (in areas of difficult access), between January 6 and 10, 1961.

INVESTIGATIONAL DISCLOSURES

Borings disclose that materials occurring immediately below proposed grade and in the embankment foundation areas are predominantly comprised of sandy silts and silt clays, in the A-4a and A-6 classifications, generally having moisture contents in the lower portion of or slightly less than the plastic range.

Two areas containing wet, highly compressible marly sedimentary peat and organic soils were encountered, between stations 1105+00 and 1107+50 and 1211+00 to 1212+00. The compressible material occurs at surface or slightly below surface to as deep as 11 feet and is underlain by dense gravel and stiff silt clays.

Frost susceptible silts were encountered within three (3) feet of grade at stations 1137+00, 1160+00, 1163+00 and 1169+00.

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 349 SAMPLES TESTED

DESCRIPTION	H.R.B CLASS	OHIO CLASS	% AGG	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel	A-1-a (0)	A-1-a	61	10	6	6	5	NP	NP	11	12
Gravel with sand	A-1-b (0)	A-1-b	47	20	13	11	5	NP	NP	17	18
Coarse and fine sand	———	A-3a	17	32	32	9	8	NP	NP	14	3
Gravel and/or fragments with sand and silt	A-2-4 (0)	A-2-4	48	9	13	18	12	27	4	10	13
Gravel with sand, silt and clay	A-2-6 (0)	A-2-6	47	17	9	12	15	34	13	20	8
Sandy silt	A-4 (8)	A-4a	21	10	16	30	23	24	6	14	115
Silt	A-4 (8)	A-4b	3	2	7	61	27	30	8	27	6
Silt and clay	A-6 (7)	A-6a	15	6	12	32	25	30	12	21	57
Silty clay	A-6 (10)	A-6b	14	6	10	32	30	30	18	20	11
Elastic clay with organic material unless otherwise noted	A-7-5 (13)	A-7-5	6	5	8	34	19	58	24	54	13
Clay	A-7-6 (15)	A-7-6	5	3	7	30	17	47	22	28	14
Marly Sedimentary Peat					VISUAL CLASSIFICATION						18

Random Fill, consisting of gravel, sand, silt, clay, w/ brick bats, wood and cinders.

Berm material.

Auger boring – plan view.

Auger boring plotted to vertical scale only.

● Water content nearly equal to or greater than liquid limit.

Indicates a non-plastic material with high water content.

Free water.

Sod and/or Topsoil =X= Approximate depth

NOTE: Small vertical figures beside borings indicate loss on ignition in percent. e.g. 15

NOTE: Figures beside borings indicate water content in percent. e.g. 6

Revised 2/26/63

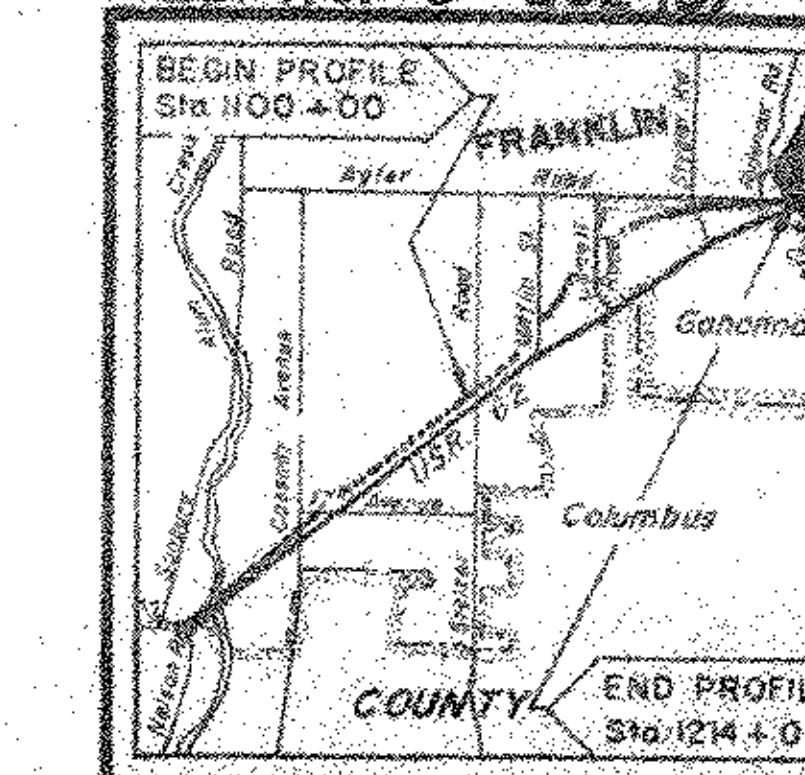
SOIL PROFILE
FRANKLIN COUNTY
FRA-270-25.49 N
FRA-62-20.83

OHIO STATE HIGHWAY TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

1/47

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

FED. NO. U-202 (5)



LOCATION MAP

Recon – J.S.M. – 12-30-60

Drilling – Auger – L.M.D., C.E.G., J.A.G., J.R.S., B.D.L., J.M.M., A.J.P. – 1-6-61 to 1-10-61

Drafting – R.L.M., W.E.J. – 2-2-61

REVISED

Drafting – R.A.W. – 11-13-61

REVISED

Drafting – D.H.A. 2/26/63

SUMMARY OF SOIL TEST DATA

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes sample taken at or near grade.

STATION & OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	OHIO CLASS.
FRA-62-19.06										
1000+00 25'Lt	0.6-1.5	23	17	10	19	20	32	10	17	A-4a
	1.5-5.0	55	16	7	12	10	NP	NP	11	A-1-b
	5.0-8.0	61	20	7	7	5	NP	NP	6	A-1-a
	8.0-11.0	72	13	9	6	2	NP	NP	9	A-1-a
1011+50 75'Lt	0.8-1.5	31	12	10	14	33	39	16	10	A-6a
	1.5-3.0	61	5	8	13	15	29	12	15	A-2-6
1012+00 25'Lt	0.8-4.0	16	13	16	23	32	32	13	22	A-6a
	4.0-10.0	70	12	7	10	11	NP	NP	9	A-2a
1013+00 51'Rt	0.0-5.0	30	16	11	23	20	NP	NP	10*	A-4a
	5.0-10.0	0	7	23	39	29	NP	NP	10	A-4a
	10.0-13.0	14	69	10	– 7 –		NP	NP	16	A-3a
	13.0-18.0	0	19	16	35	20	22	6	11	A-4a
	18.0-21.0	20	30	25	5	13	NP	NP	12	A-1-b
	21.0-26.0	50	10	15	5	5	NP	NP	9	A-1-a
	26.0-30.0	41	31	19	9	5	NP	NP	11	A-1-b
1016+00 40'Rt	0.0-3.0	32	14	16	20	17	NP	NP	10	A-4a
	3.0-8.0	7	3	17	45	28	32	7	10	A-4a
	8.0-15.0	2	1	26	41	30	22	7	10	A-4a
	15.0-19.0	49	6	21	13	11	NP	NP	21	A-1-b
	19.0-25.0	52	14	15	12	7	NP	NP	15	A-1-b
	25.0-30.0	62	15	9	6	8	NP	NP	9	A-1-a
1018+50 25'Rt	0.5-5.0	45	12	7	20	16	NP	NP	10	A-4a
	5.0-10.0	55	11	7	11	12	21	1	8	A-1-b
1021+50 CL	0.3-2.5	46	8	13	20	13	20	4	11	A-2-4
	2.5-7.0	37	10	13	23	17	21	7	11	A-4a
	7.0-10.0	29	7	26	25	16	20	10	23	A-4a
	10.0-11.0	50	9	15	13	15	30	15	28	A-2-6
1024+00 CL	0.0-5.0	20	6	17	30	23	29	7	10	A-4a
1027+00 CL	0.7-1.5	17	7	20	25	32	30	11	19	A-6a
	1.5-5.0	25	8	11	25	31	20	10	13	A-4a
	5.0-10.5	9	11	10	29	27	21	8	15	A-4a
	10.5-15.0	30	8	12	24	18	22	8	11	A-4a
	15.0-20.0	43	9	12	21	16	21	6	10	A-4a *
1030+50 CL	1.0-4.0	20	8	15	26	30	33	15	17	A-6a
	5.0-10.0	20	8	15	31	22	26	8	17	A-4a
	10.0-15.0	22	11	15	31	21	27	10	8	A-4a
	15.0-20.0	21	11	16	31	18	21	5	9	A-4a *
1033+50 CL	0.4-1.5	14	1	20	38	25	25	8	16	A-4a
	1.5-6.0	22	6	13	30	29	29	11	17	A-6a
	6.0-17.0	24	9	15	30	24	22	8	9	A-4a
1037+15 CL	0.6-4.0	10	2	14	17	23	48	24	24	A-7-6
	4.0-7.0	13	16	13	37	23	23	9	15	A-4a
	7.0-13.0	33	6	13	20	20	21	4	13	A-4a
	13.0-24.5	29	8	14	30	10	23	7	11	A-4a *
	24.5-27.0	61	25	4	6	4	NP	NP	7	A-1-a
1040+50 CL	0.0-2.0	21	4	10	25	40	49	24	26	A-7-6
	2.0-6.0	19	6	13	26	36	37	17	20	A-6b
	6.0-17.0	40	8	11	19	19	22	6	12	A-2-4 *
1043+50 CL	0.0-4.0	13	2	10	35	40	30	10	20	A-6a
	4.0-10.0	14	9	15	39	23	26	7	18	A-4a
	10.0-17.0	25	20	20	21	14	NP	NP	9	A-2-4
1047+50 CL	0.0-5.0	0	4	13	40	43	30	17	19	A-6b
	5.0-11.0	10	8	12	30	30	27	8	16	A-4a
	11.0-16.0	15	9	15	32	29	25	8	9	A-4a
	16.0-21.0	25	10	15	27	24	25	6	13	A-4a *
	21.0-26.0	10	11	17	30	24	27	5	8	A-4a
	26.0-30.0	19	13	10	29	21	22	5	9	A-4a
1052+00 CL	0.3-5.0	0	8	15	30	43	33	17	17	A-6a
	5.0-11.0	11	9	15	33	32	27	7	17	A-4a
	11.0-16.0	50	4	8	21	17	20	7	13	A-4a *
	16.0-21.0	57	6	6	17	12	19	3	10	A-2-4 *
	21.0-26.0	20	13	15	29	23	22	7	10	A-4a
	26.0-30.0	14	15	22	29	20	19	4	23	A-4a
1056+00 CL	0.0-5.0	33	5	11	30	22	35 *	14	16	A-6a
	5.0-7.0	37	10	13	20	16	25	7	12	A-4a
	7.0-12.0	23	10	14	30	23	20	5	13	A-4a
	12.0-17.0	20	10	15	33	21	22	8	12	A-4a *
	17.0-20.0	32	17	13	25	10	21	5	9	A-4a *
1060+00 CL	0.0-5.0	16	17	8	24	34	42	19	18	A-7-6
	5.0-8.0	21	9	16	30	20	25	7	13	A-4a
	8.0-14.0	25	10	15	20	22	22	7	10	A-4a
	14.0-20.0	14	12	18	33	23	21	5	10	A-4a *
	20.0-26.0	37	9	13	23	18	21	5	11	A-4a
1063+50 CL	0.4-7.0	18	2	9	29	41	42	20	24	A-7-6
	7.0-12.0	20	9	14	31	26	20	4	13	A-4a
	12.0-16.0	25	9	15	29	22	20	8	10	A-4a *
	16.0-23.0	30	9	13	25	17	24	8	10	A-4a
1067+00 CL	0.4-6.0	17	5	11	29	38	30	13	10	A-6a
	6.0-13.0	29	8	13	29	21	23	7	14	A-4a *
	13.0-20.0	25	6	15	20	26	21	6	9	A-4a
1071+00 CL	0.4-7.0	17	10	18	29	20	26	7	18	A-4a
	7.0-12.0	13	9	15	36	27	22	5	12	A-4a *
	12.0-17.0	36	8	16	20	20	20	4	9	A-4a
1075+50 CL	0.4-6.0	0	2	7	42	49	41	17	27	A-7-6 *
	6.0-11.0	19	11	17	32	21	20	11	11	A-6a *
	11.0-16.0	22	12	23	27	16	NP	NP	9	A-4a
1079+00 CL	0.4-6.0	32	7	11	29	20	26	8	21	A-4a *
	6.0-8.0	39	20	30	9	7	NP	NP	12	A-1-b
	8.0-10.0	17	11	19	30	23	20	4	9	A-4a
1082+00 CL	0.4-4.0	12	3	14	34	37	30	17	23	A-6b *
	4.0-10.0	22	13	19	30	16	20	4	12	A-4a
1085+00 CL	0.4-6.0	20	7	13	25	27	32	12	30	A-6a
	6.0-10.0	23	8	9	25	27	24	5	11	A-4a
1088+75 CL	0.5-5.0	3	6	9	33	40	42	16	20	A-7-6
	5.0-10.0	29	15	22	21	13	NP	NP	10	A-2-4
1093+00 CL	0.4-7.0	27	13	16	23	21	NP	NP	11	A-4a
	7.0-10.0	19	16	19	23	23	NP	NP	8	A-4a
1097+00 CL	0.4-6.0	2	6	21	36	35	20	8	16	A-4a
	6.0-10.0	22	12	19	29	18	NP	NP	13	A-4a
FRA-62-20.83										
1100+00 CL	1.0-5.0	0	3	15	30	44	44	22	23	A-7-6
	5.0-10.0	17	8	18	29	29	27	5	11	A-4a
	10.0-15.0	12	5	18	38	27	21	6	13	A-4a
1103+00 CL	0.0-5.0	20	9	8	24	39	30	10	21	A-6a
	5.0-10.0	30	11	15	24	20	27	5	17	A-4a
1106+00 CL	0.0-3.0	0	7	13	12	30	-	-	-	A-4a
	3.0-8.0	7	6	12	32	43	36	15	21	A-6a
	8.0-13.0	30	8	15	30	15	22	6	20	A-4a
	13.0-17.0	15	20	19	23	23	21	6	20	A-4a
	17.0-20.0	19	10	12	12	13	33	13	21	A-7-6
1107+40 20'Lt	0.5-6.0	10	7	16	29	30	30	12	17	A-6a
	6.0-8.0	38	25	18	14	9	NP	NP	17	A-1-b
	8.0-11.0	16	11	15	34	24	23	7	18	A-4a
	11.0-15.0	33	8	11	28	22	24	9	12	A-4a
1109+00 12'Lt	0.0-5.0	7	7	12	34	40	32	11	10	A-6a
	5.0-10.0	11	6	13	38	32	27	11	18	A-6a
	10.0-14.0	17	10	14	34	25	24	7	10	A-4a
	14.0-18.0	17	8	8	36	30	22	8	11	A-4a
	18.0-20.0	34	12	19	21	14	NP	NP	13	A-2-4
1113+00 CL	7.0-8.0	4	6	19	30	41	30	9	22	A-4a
	8.0-13.0	25	34	10	11	20	35	15	18	A-2-6
	13.0-16.0	42	22	14	8	16	29	11	21	A-2-6
	16.0-20.0	49	11	11	16	13	NP	NP	12	A-2-4
1117+00 CL	0.0-5.0	10	5	11	38	36	31	12	17	A-6a
	5.0-10.0	33	7	14	24	22	28	8	10	A-4a
	10.0-16.0	30	8	14	26	21	27	5	12	A-4a
1121+00 CL	0.0-3.0	0	7	5	44	44	42	20	26	A-7-6
	3.0-7.0	16	7	20	32	25	22	5	10	A-4a
	7.0-10.0	27	10	14	28	21	23	6	13	A-4a
1125+00 CL	0.3-5.0	15	5	12	28	40	30	17	21	A-6a
1129+00 [illegible]	0.4-2.0	0	3	5	37	55	40	28	13	A-7-6
	2.0-7.0	5	6	13	31	45	33	13	16	A-6a
	7.0-8.0	32	12	15	21	20	22	4	14	A-4a
	8.0-10.0	9	14	53	12	12	NP	NP	17	A-3a
1133+00 20'Rt	0.4-3.0	0	4	5	38	40	41	10	28	A-7-6 *
	3.0-8.0	0	5	9	45	46	41	20	23	A-7-6 *
	8.0-10.0	18	10	16	30	26	23	6	14	A-4a
	10.0-13.0	11	11	16	34	28	21	5	12	A-4a
1137+00 CL	0.5-4.0	0	3	7	40	50	48	23	16	A-7-6 *
	4.0-8.5	10	8	16	35	31	27	9	14	A-4a *
	8.5-13.0	11	11	15	37	26	NP	NP	11	A-4a
1141+00 CL	0.5-2.0	12	10	30	20	28	27	7	15	A-4a *
	2.0-5.0	11	9	18	30	32	23	6	12	A-4a
	5.0-8.0	30	8	20	27	18	22	6	14	A-4a
	8.0-10.0	24	12	15	31	22	20	4	12	A-4a
1145+00 CL	0.5-5.0	3	7	19	38	38	31	15	18	A-6a *
	5.0-10.0	15	6	18	30	30	22	6	14	A-4a
1149+00 CL	0.5-5.0	5	6	13	44	35	33	13	10	A-6a *
1153+00 10'Lt	0.4-8.0	11	5	11	33	40	38	15	18	A-6a

Revised 2/26/63

SOIL PROFILE
FRANKLIN COUNTY
FRA - 62 - 20.83 FRA-270-25.34N
OHIO STATE HIGHWAY TESTING LABORATORY
O. S. U. CAMPUS COLUMBUS, OHIO

2/47

SUMMARY OF SOIL TEST DATA (Cont'd)

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes sample taken at or near grade.

STATION & OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SOIL CLASS.
1156+98 53'Lt.	0.4-6.0	14	6	10	32	38	35	14	22	A-6a *
1158+93 60'Lt.	0.4-6.0	22	8	14	31	24	25	7	14	A-4a *
	6.0-10.0	73	7	5	10	5	27	6	8	A-1-a
1164+75 120'Lt.	0.4-6.0	22	7	17	28	25	25	4	11	A-4a *
	6.0-10.0	9	7	15	38	33	28	8	11	A-4a
1168+45 147'Lt.	0.4-6.0	15	6	10	33	30	27	9	14	A-4a *
	6.0-10.0	17	10	18	20	25	21	4	9	A-4a
1172+85 153'Lt.	0.4-7.0	17	6	12	34	31	34	14	15	A-6a
	7.0-10.0	9	4	14	47	30	33	8	17	A-4a
1176+80 132'Lt.	0.4-5.0	18	5	10	30	37	33	11	16	A-6a
	5.0-8.0	15	7	12	37	29	28	5	12	A-4a
1183+50 53'Lt.	0.5-3.0	9	2	7	28	57	45	21	20	A-7-6 *
	3.0-6.0	25	4	14	25	32	36	17	21	A-6b *
	6.0-10.0	16	11	14	32	27	24	8	13	A-4a
	10.0-12.0	16	12	14	31	27	22	8	13	A-4a
1187+75 70'Lt.	0.2-3.0	0	4	7	42	47	41	17	21	A-7-6 *
	3.0-7.0	4	14	10	23	40	45	21	24	A-7-6 *
	7.0-10.0	12	11	10	37	22	NP	NP	13	A-4a
1191+50 47'Lt.	0.2-3.0	0	4	10	38	48	41	18	18	A-7-6 *
	3.0-5.0	17	12	10	22	35	40	18	19	A-6b *
	5.0-10.0	57	31	6	— 6 —		NP	NP	16	A-1-a *
	10.0-15.0	23	9	16	31	21	24	6	15	A-4a
1194+00 33'Lt.	0.8-4.0	0	0	2	36	62	60	39	38	A-7-5 *
	4.0-10.0	26	10	12	24	28	27	8	17	A-4a
	10.0-12.0	63	15	8	7	7	25	4	13	A-1-a
1194+54 130'Lt.	0.5-3.5	0	1	4	47	48	55	26	36	A-7-6
	3.5-5.0	0	1	2	53	44	43	20	37	A-7-6
	5.0-7.0	48	6	10	22	16	30	8	23	A-4a
1194+52 82'Lt.	0.5-4.5	0	1	2	47	50	55	32	34	A-7-6
	4.5-8.5	Gray Marly Sedimentary Peat							97	Visual
	8.5-10.0	24	10	13	27	26	27	10	24	A-4a
1194+50 30'Lt.	0.2-3.0	0	1	2	40	57	64	32	45	A-7-5
	3.0-10.0	Gray Marly Sedimentary Peat					120	82	93	Visual
	10.0-15.0	54	20	9	9	8	27	5	15	A-1-b
	15.0-18.0	11	10	17	39	23	NP	NP	12	A-4a
1194+47 20'Rt.	0.0-2.0	0	1	1	34	64	67	33	38	A-7-5
	2.0-6.5	Gray Marly Sedimentary Peat					77	34	82	Visual
	6.5-8.5	0	1	8	71	20	33	7	28	A-4b
	8.5-13.0	14	8	19	34	23	NP	NP	10	A-4a
	13.0-18.0	20	6	14	35	25	NP	NP	13	A-4a
1194+44 87'Rt.	0.7-3.0	0	1	1	39	50	66	34	30	A-7-6
	3.0-5.0	0	0	0	58	42	44	17	16	A-7-6
	5.0-7.0	20	1	6	50	14	-	-	23	A-4b
	7.0-10.0	18	10	14	27	31	20	8	17	A-4a
	10.0-12.0	51	16	11	13	5	24	5	16	A-1-b
1195+10 178'Lt.	0.5-3.0	18	0	3	42	37	40	17	38	A-7-6
	3.0-6.0	18	1	2	38	40	-	-	14	A-7-6
	6.0-7.0	53	8	8	17	15	-	-	24	A-7-6
1195+07 128'Lt.	0.5-4.0	0	0	2	40	58	62	37	37	A-7-6
	4.0-8.0	Gray Marly Sedimentary Peat							65	Visual
	8.0-8.5	0	1	6	63	30	37	22	23	A-6b
	8.5-10.5	53	28	5	8	7	NP	NP	21	A-1-b

STATION & OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SOIL CLASS.
1195+02 79'Lt.	0.5-3.0	17	3	9	44	27	43	14	35	A-7-6
	3.0-5.0	0	1	1	45	55	60	22	65	A-7-5
	5.0-8.5	Gray Marly Sedimentary Peat					120	79	100	Visual
	8.5-11.0	Gray Marly Sedimentary Peat							53	Visual
1194+93 70'Rt.	0.0-4.0	Gray Marly Sedimentary Peat					107	67	71	Visual
	4.0-7.5	0	1	4	63	32	32	7	20	A-4b
	7.5-12.0	24	9	16	29	22	24	5	14	A-4a
1194+90 120'Rt.	0.0-3.0	0	2	1	36	61	70	40	48	A-7-6
	3.0-5.0	0	1	4	67	28	32	0	27	A-4b
	5.0-8.0	13	8	15	31	27	24	8	13	A-4a
	8.0-10.0	50	21	10	16	0	24	3	15	A-1-b
1193+57 65'Lt.	0.4-3.0	0	2	4	27	67	-	-	-	A-6a
	3.0-7.0	0	2	8	67	23	32	8	20	A-4b
	7.0-12.0	24	8	13	27	27	27	8	15	A-4a
	12.0-15.0	53	24	11	7	5	NP	NP	13	A-1-a
1195+50 23'Lt.	0.0-5.0	Gray Marly Sedimentary Peat					188	105	108	Visual
	5.0-10.0	Gray Marly Sedimentary Peat					230	173	103	Visual
	10.0-15.0	24	11	13	27	25	20	0	17	A-4a
	15.0-20.0	53	10	11	7	4	NP	NP	14	A-1-a
1195+45 75'Rt.	0.3-1.0	Gray Marly Sedimentary Peat					145	101	80	Visual
	1.0-8.0	Gray Marly Sedimentary Peat					90	55	81	Visual
	8.0-11.0	Gray Marly Sedimentary Peat					182	72	108	Visual
	11.0-14.0	22	5	16	20	25	25	8	17	A-4a
	14.0-16.0	65	15	9	4	7	NP	NP	17	A-1-a
	16.0-18.0	15	7	14	20	27	21	5	11	A-4a
1195+40 125'Rt.	1.0-3.0	0	1	1	51	47	42	15	21	[illegible]
	3.0-8.0	18	11	15	32	23	29	0	-	A-4a
	8.0-10.0	23	8	14	34	18	NP	NP	18	A-4a
1195+89 75'Lt.	0.5-3.0	22	1	[illegible]	[illegible]	[illegible]	[illegible]	31	18	A-7-6
	3.0-8.5	0	1	[illegible]	35	61	[illegible]	34	35	A-7-6
	8.5-9.0	53	7	10	17	13	NP	NP	33	A-2-4
1196+00 22'Lt.	0.5-2.0	23	3	3	21	50	-	-	44	A-7-6
	2.0-4.0	44	1	1	23	31	-	-	48	A-7-6
	4.0-8.0	22	0	13	24	40	29	7	21	A-4a
1195+88 28'Rt.	1.5-7.0	Gray Marly Sedimentary Peat					150	404	64	Visual
	7.0-8.5	0	5	8	20	30	32	10	35	A-4b
	8.5-12.0	22	5	15	34	20	23	5	13	A-4a
1195+95 78'Rt.	0.7-2.0	0	1	1	20	70	65	31	82	A-7-5
	2.0-7.0	Gray Marly Sedimentary Peat					148	90	90	Visual
	7.0-12.0	34	16	12	18	20	27	4	18	A-4a
1195+17 128'Rt.	0.0-2.0	0	1	1	20	68	-	-	87	A-7-6
	2.0-7.5	Gray Marly Sedimentary Peat					141	84	93	Visual
	7.5-13.0	16	11	15	23	26	24	6	18	A-4a
1196+50 32'Rt.	0.2-3.0	13	11	13	32	31	31	8	10	A-4a
	3.0-8.0	57	20	14	5	4	NP	NP	13	A-1-b
	8.0-10.0	24	7	13	30	26	25	0	13	A-4a
1196+45 83'Rt.	0.0-4.0	10	10	14	27	31	20	6	20	A-4a
	4.0-10.0	41	20	14	0	0	20	4	18	A-1-b
1193+43 130'Rt.	0.0-2.0	0	2	3	23	60	65	30	17	A-7-5
	2.0-8.0	Gray Marly Sedimentary Peat					123	74	80	Visual
	8.0-11.0	25	10	13	27	25	38	0	17	A-4a
1195+60 133'Rt.	0.0-3.0	0	2	8	37	52	46	20	34	A-7-6
	3.0-7.0	44	28	17	8	7	NP	NP	18	A-1-b
	7.0-10.0	24	11	14	30	21	22	6	12	A-4a

STATION & OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SOIL CLASS.
1199+50 5'Lt.	0.3-3.0	0	4	8	42	43	38	12	23	A-6b *
	3.0-5.5	23	8	12	27	30	30	11	14	A-6a
	5.5-7.0	26	27	26	11	10	NP	NP	15	A-1-b
	7.0-10.0	20	10	14	20	23	25	9	13	A-4a
1203+50 CL	0.3-3.0	0	4	12	30	48	35	11	21	A-6a *
	3.0-6.0	18	5	12	34	30	31	11	10	A-6a
	6.0-10.0	5	6	21	46	22	NP	NP	22	A-4a
1207+50 CL	0.2-5.0	10	8	13	60	19	32	11	17	A-6a *
	5.0-10.0	61	7	6	12	14	32	10	10	A-2-6
	10.0-12.0	83	11	4	0	0	30	3	16	A-1-b
	12.0-15.0	16	9	12	13	19	NP	NP	17	A-4a
1209+75 CL	0.3-2.0	16	6	17	28	33	33	6	10	A-4a
1210+50 50'Lt.	0.0-4.0	13	12	10	30	26	30	11	25	A-6a
	4.0-8.0	27	12	18	25	17	58	10	62	A-7-5
	8.0-10.0	24	11	12	31	22	NP	NP	16	A-4a
	10.0-16.0	32	14	18	28	21	22	8	12	A-4a
1211+10 50'Rt.	0.0-2.0	0	2	7	54	37	48	19	18	A-7-6
	2.0-6.0	20	12	14	30	28	56	26	44	A-7-5
	6.0-10.0	25	17	16	20	22	40	12	42	A-7-5
	10.0-15.0	13	50	13	11	13	NP	NP	23	A-1-b
	15.0-20.0	17	16	8	38	30	26	11	17	A-6a
1211+25 50'Lt.	0.0-6.0	0	5	41	8	45	38	11	24	A-6a
	6.0-8.0	0	1	8	60	31	28	8	20	A-4b
	8.0-15.0	21	5	4	33	37	33	11	24	A-6a
	15.0-20.0	21	2	8	37	38	32	11	22	A-6a
1211+25 CL	0.0-3.0	0	5	0	55	40	43	13	27	A-7-5
	3.0-8.0	Gray Marly Sedimentary Peat					110	27	100	Visual
	8.0-11.0	Gray Marly Sedimentary Peat							61	Visual
	11.0-13.0	24	11	7	20	38	32	11	19	A-6a
1211+50 CL	0.2-2.0	0	1	9	54	36	29	11	22	A-6a
	2.0-7.0	0	2	14	48	36	66	20	47	A-7-5
	7.0-8.0	60	4	8	12	10	40	8	30	A-2-4
	8.0-16.0	0	1	7	90	42	29	8	17	A-4b
	16.0-20.0	61	2	3	17	17	32	12	23	A-2-6
	20.0-26.0	18	12	21	26	23	22	6	10	A-4a
1212+50 50'Lt.	0.0-3.0	0	1	7	46	43	41	16	26	A-7-6
	3.0-7.0	33	6	12	24	22	35	12	20	A-6a
	7.0-10.0	62	7	7	13	11	30	13	4	A-2-6
	10.0-15.0	24	11	15	30	20	27	8	14	A-4a
	15.0-20.0	24	8	14	31	23	23	8	13	A-4a
1212+50 50'Rt.	0.0-3.0	0	0	8	51	40	30	12	30	A-6a
	3.0-7.0	0	1	8	46	45	33	11	32	A-6a
	7.0-11.0	30	10	6	13	10	30	16	24	A-2-6
	11.0-15.0	11	4	2	33	53	40	10	25	A-6b
	15.0-20.0	10	8	13	38	27	26	8	15	A-4a
1213+00 CL	0.3-3.0	0	0	4	50	45	44	15	28	A-7-6
	3.0-5.0	64	0	6	11	11	22	5	20	A-1-b
	5.0-12.0	20	0	15	20	28	24	8	14	A-4a
	12.0-13.0	31	8	13	26	22	24	8	11	A-4a
1213+20 25'Rt.	0.0-5.0	0	2	12	48	33	38	11	38	A-6a
	5.0-8.0	47	6	14	18	12	24	4	21	A-2-4
	8.0-14.0	38	6	10	20	26	28	11	12	A-6a
	14.0-20.0	21	3	4	41	31	28	11	21	A-6a
1213+25 35'Lt.	0.0-3.0	0	1	12	53	34	38	8	28	A-4b
	3.0-7.0	45	7	14	30	14	28	0	30	A-2-4
	7.0-10.0	58	9	10	15	10	27	5	27	A-1-b
	10.0-15.0	15	5	8	34	38	20	11	19	A-6a
	15.0-20.0	22	3	4	30	35	24	15	17	A-6a

FRA 62-22.66

STATION & OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SOIL CLASS.
1214+20 135'Rt.	0.0-3.0	Brown Clayey Sandy Silt W/Gravel and Cinders								Visual
	3.0-8.0	Brown Clayey Sandy Silt W/Cinders								Visual
	8.0-12.0	37	5	10	31	17	39	11	23	A-6a
	12.0-16.0	15	1	23	38	23	NP	NP	38	A-4a
	16.0-20.0	50	5	8	16	13	20	0	25	A-2-4
1214+30 50'Lt.	0.0-3.0	Brown Clayey Silt W/Gravel and Cinders								Visual
	3.0-6.0	Brown Silt and Cinders W/Wood								Visual
	6.0-10.0	5	0	20	35	40	31	11	25	A-6a
	10.0-12.0	30	8	10	22	22	31	12	27	A-6a
	12.0-16.0	25	7	8	32	27	28	11	15	A-6a
	16.0-20.0	15	7	11	35	32	27	11	17	A-6a
1214+50 CL	0.0-3.5	Brown Clayey Silt W/Cinders and Brick Bats								Visual
CASSADY & 17TH AVENUE INTERCHANGE										
W-C17 Ramp										
14+55 7'Lt.	0.0-1.2	24	6	10	30	30	30	12	22	A-6a
	1.2-6.0	0	4	7	38	50	41	20	16	A-7-6
	6.0-11.0	15	12	15	28	20	25	8	17	A-4a *
	11.0-14.5	30	8	12	20	22	21	6	13	A-4a
S-W17 Ramp										
4+70 20'Rt.	0.5-6.0	22	3	8	15	51	39	14	22	A-6a
	6.0-11.0	0	11	16	38	29	28	8	14	A-4b
	11.0-14.0	36	7	11	28	20	23	8	9	A-4a
7+65 23'Lt.	0.0-5.0	0	3	13	41	43	38	18	21	A-6b
	5.0-10.0	17	10	10	34	20	20	3	13	A-4a
10+40 9'Lt.	0.0-5.0	0	3	12	37	48	43	10	25	A-7-6
	5.0-8.0	22	6	15	27	30	30	11	22	A-6a
	8.0-12.0	38	11	12	23	18	22	5	15	A-4a
E-Nc Ramp										
8+00 6'Lt.	0.4-5.0	8	3	0	35	48	41	21	21	A-7-6
	5.0-11.0	15	12	10	31	24	23	6	13	A-4a
	11.0-15.0	38	10	12	23	19	21	11	0	A-6a
S-E17 Ramp										
3+95 5'Lt.	0.0-4.0	0	4	9	40	36	35	14	22	A-6a
	4.0-10.0	28	8	16	28	20	22	5	13	A-4a *
	10.0-15.0	38	7	13	20	24	21	7	12	A-4a
STELZER ROAD INTERCHANGE										
W-Sa Ramp										
19+00 10'Lt.	0.3-4.0	0	4	14	38	43	38	14	20	A-6a
	4.0-9.0	3	8	15	31	48	37	15	22	A-6a
	9.0-13.0	3	7	33	43	14	NP	NP	20	A-4a
	13.0-15.0	16	12	15	34	23	22	5	13	A-4a
E-Na Ramp										
3+27 10'Rt.	0.4-4.0	7	9	18	30	37	33	13	15	A-6a
S-Ea Ramp										
6+78 25'Lt.	1.0-8.0	2	7	18	30	37	30	11	21	A-6a
	8.0-9.0	25	9	15	30	21	25	8	19	A-4a
	9.0-12.0	27	8	15	27	22	20	0	23	A-4a
	12.0-15.0	17	12	16	31	24	24	7	12	A-4a

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SOIL PROFILE
FRANKLIN COUNTY
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OHIO STATE HIGHWAY
TESTING LABORATORY
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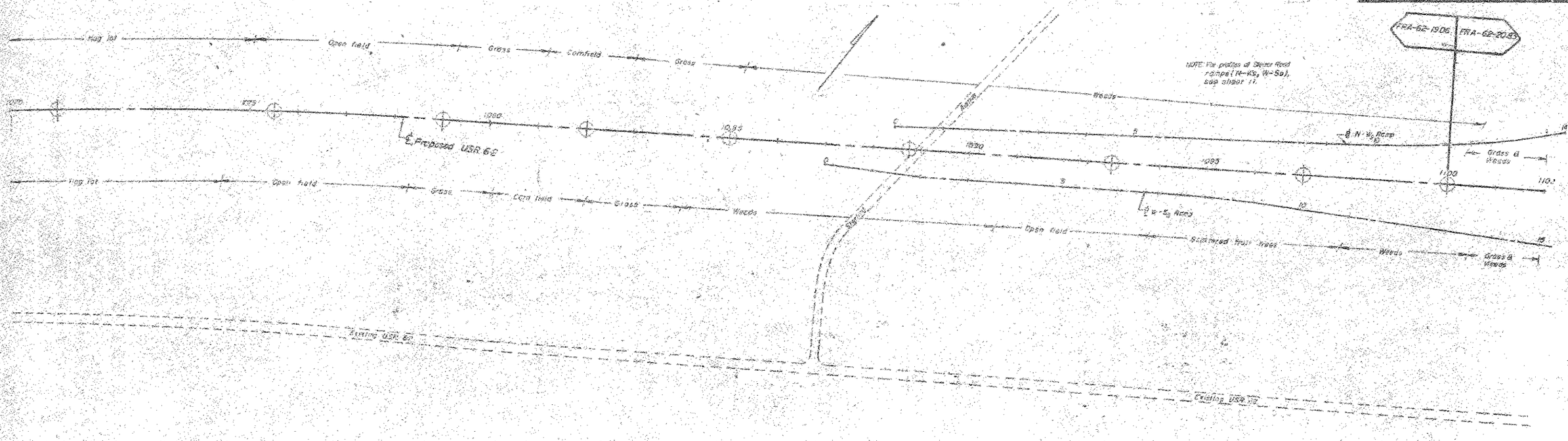
3/47


Hog lot
Open field
Grass
Cornfield
Grass
Weeds
Proposed USR 62
Hog lot
Open field
Grass
Corn field
Grass
Weeds
Open field
Scattered fruit trees
Weeds
Grass & Weeds
Existing USR 62
Existing USR 62
Fence
Fence
Fence

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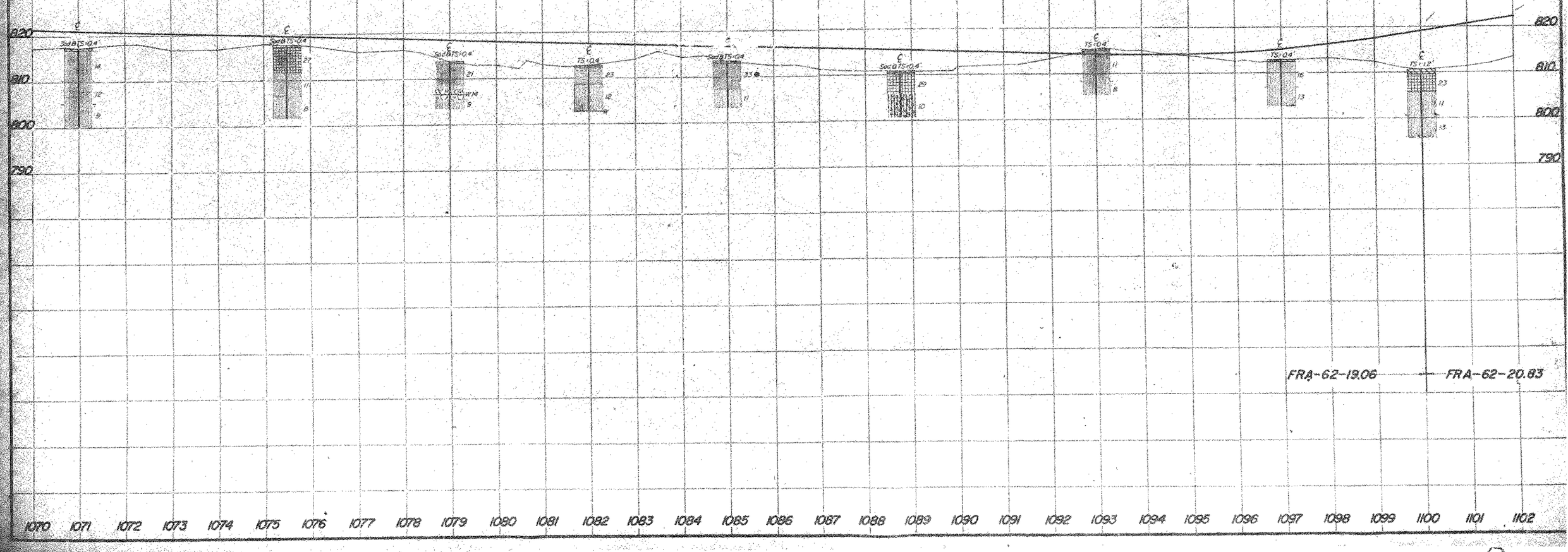
2/26/63

SOIL PROFILE
FRANKLIN COUNTY
FRA-270-25.39 N
FRA-62-20.83
OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

4
17



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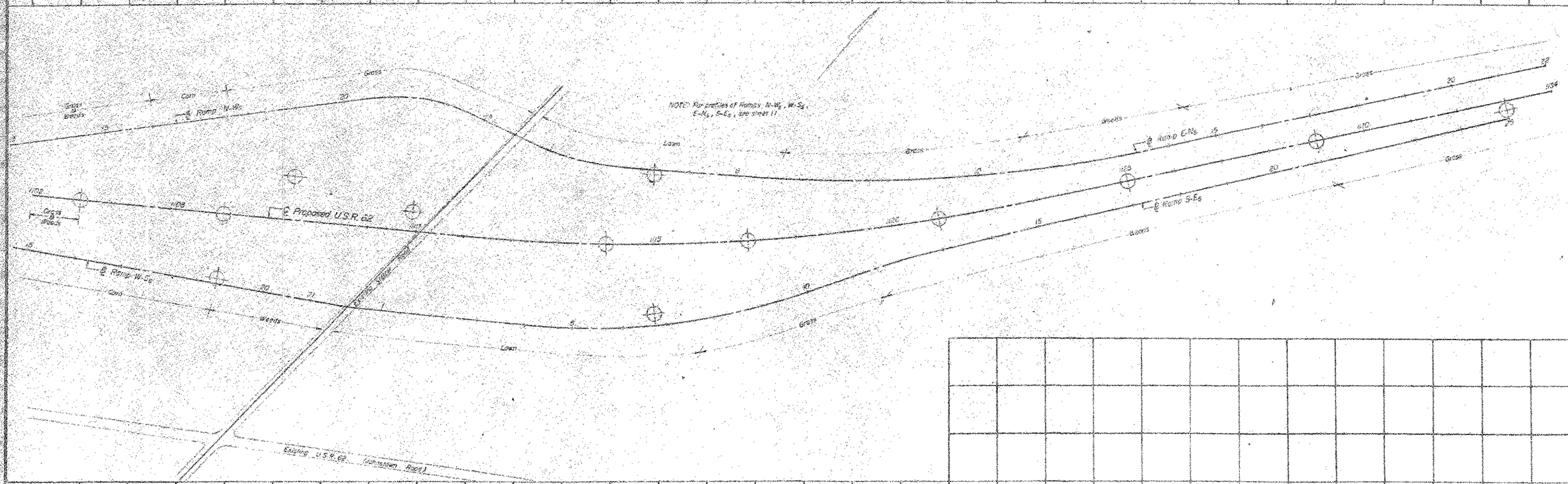
SOIL PROFILE
FRANKLIN COUNTY
FRA-270-2539N
FRA-62-20.83
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

5/47



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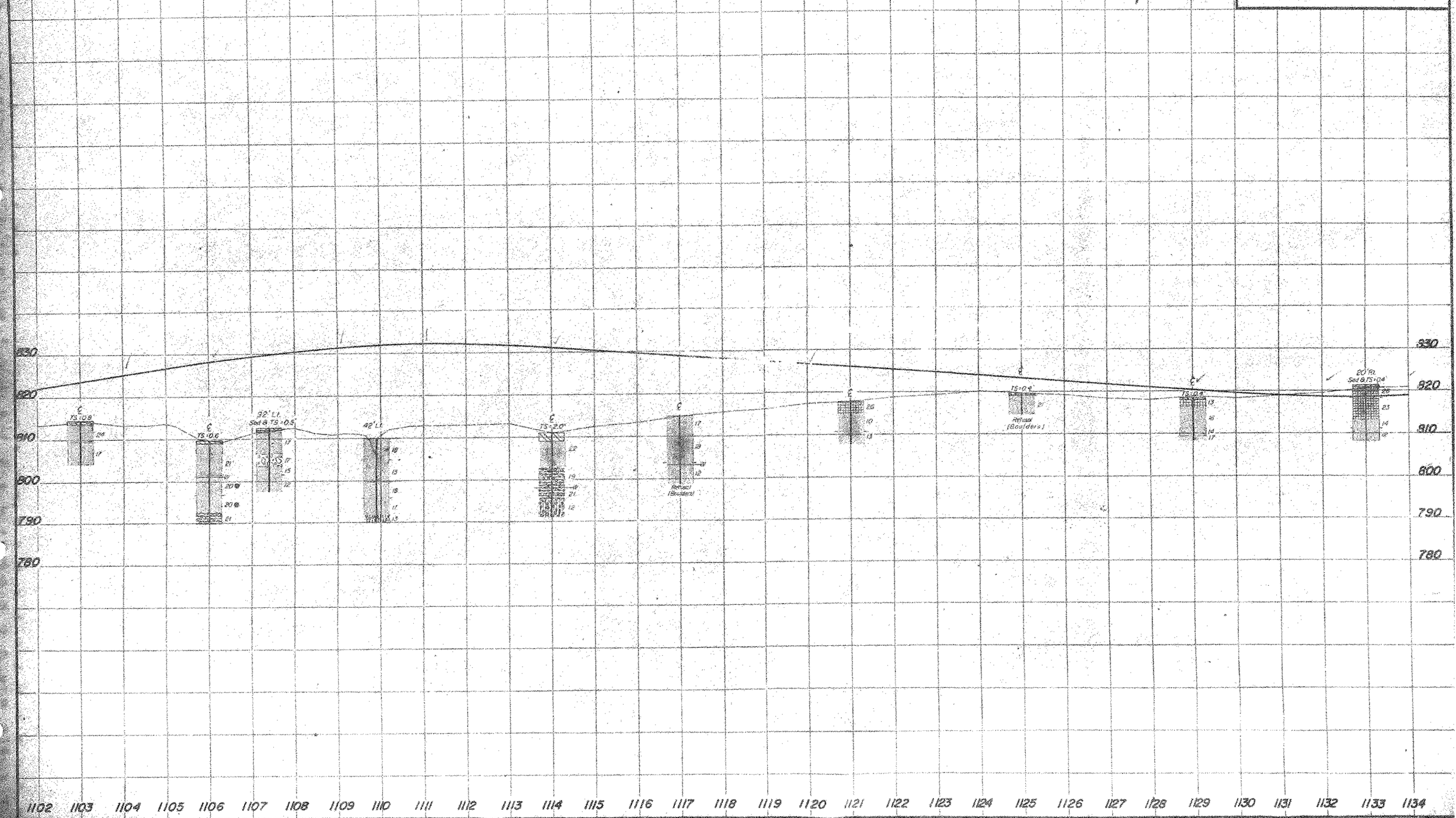
SOIL PROFILE
FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83
OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS COLUMBUS, OHIO

6
47



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SOIL PROFILE
FRANKLIN COUNTY
FAP-270-2(5)7.41
FRA-62-20.83
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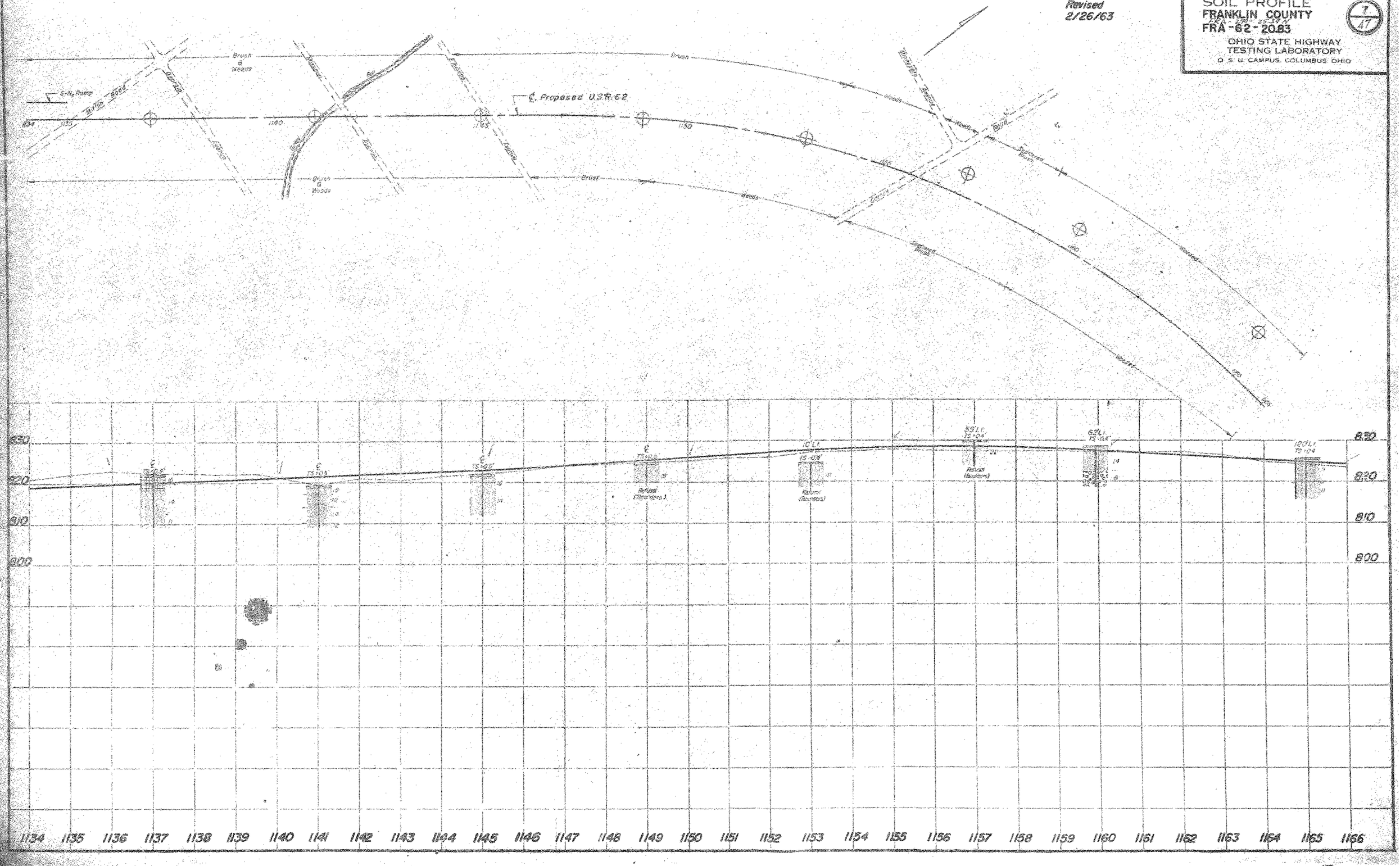
O. S. U. CAMPUS, COLUMBUS, OHIO

7/47


℄ Proposed U.S.R. 62
Brush & Weeds
Brush
Woods
Fence Row
Ditch
Gravel Drive
Asphalt Road
Corn Field
Pasture
Scattered Trees
Telephone Pole
Guy Wire
Concrete Drive
Asphalt Drive
Concrete Walk
Concrete Curb
Concrete Gutter
Concrete Apron
Concrete Slope Paving
Concrete Headwall
Concrete Wingwall
Concrete Pipe Culvert
Reinforced Concrete Box Culvert
Rock Excavation
Rock Fill
Earth Excavation
Earth Fill
Topsoil
Seeding
Mulching
Sodding
Rip-Rap
Guard Rail
Guard Rail Anchor
Guard Rail Terminal
Guard Rail Transition
Guard Rail Reflector
Guard Rail Delineator
Guard Rail Post
Guard Rail Blockout
Guard Rail Splice
Guard Rail Bolt
Guard Rail Nut
Guard Rail Washer
Guard Rail Screw
Guard Rail Nail
Guard Rail Paint
Guard Rail Primer
Guard Rail Thinner
Guard Rail Brush
Guard Rail Roller
Guard Rail Tray
Guard Rail Pan
Guard Rail Cover
Guard Rail Lid
Guard Rail Handle
Guard Rail Hook
Guard Rail Eye
Guard Rail Ring
Guard Rail Chain
Guard Rail Link
Guard Rail Shackle
Guard Rail Pin
Guard Rail Cotter Pin
Guard Rail Washer
Guard Rail Nut
Guard Rail Bolt

SOIL PROFILE

FRANKLIN COUNTY

FRA-62-20.83

OHIO STATE HIGHWAY TESTING LABORATORY

COLUMBUS, OHIO

8/17

Revised 2/26/63

CROSS SECTION INDEX

STATION	SHEET
1154+50	10
1155+00	10
1195+50	10
1196+00	10
1196+50	10

Alger Road

Weeds B Brush

Scattered Trees B Light brush

℄ Proposed U.S.R. 62

Mixed Grass

Lawn

Weeds B Grass

Weeds B Grass

Scattered Trees B Light brush

Mixed Grass

Lawn

1156 1170 1175 1180 1185 1190 1195 1198

147' Lt. TS=0.8

153' Lt. TS=0.6

132' Lt. Sod & TS=0.4

Refusal (Boulders)

93' Lt. TS=0.4

70' Lt. Sod=0.2

47' Lt. Sod=0.6

Hole squeezing at elev. 810.5

53' Lt. Sod=0.8

23' Lt. Sod=0.8

Hole squeezing at elev. 801.3

22' Lt. TS=0.5

Trace of organic

Refusal (Wood auger)

830 820 810 800 790 780

1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198

SOIL PROFILE

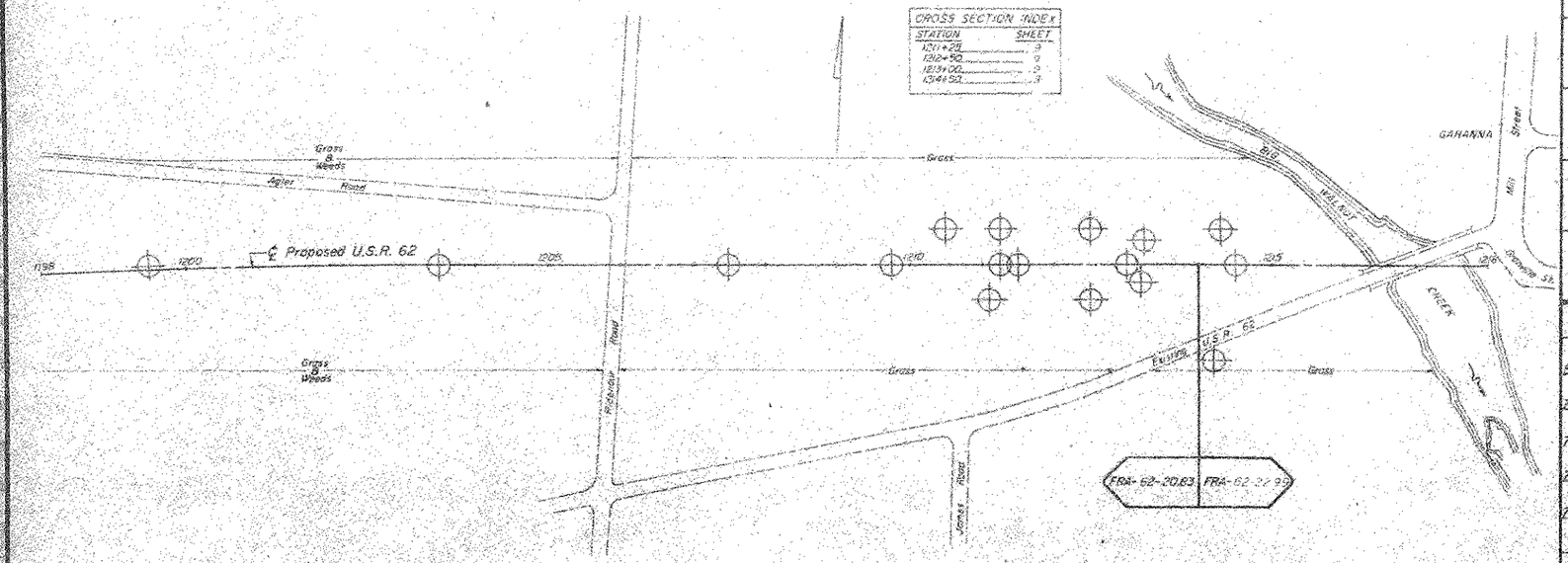
FRANKLIN COUNTY
FRA-62-20.83
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

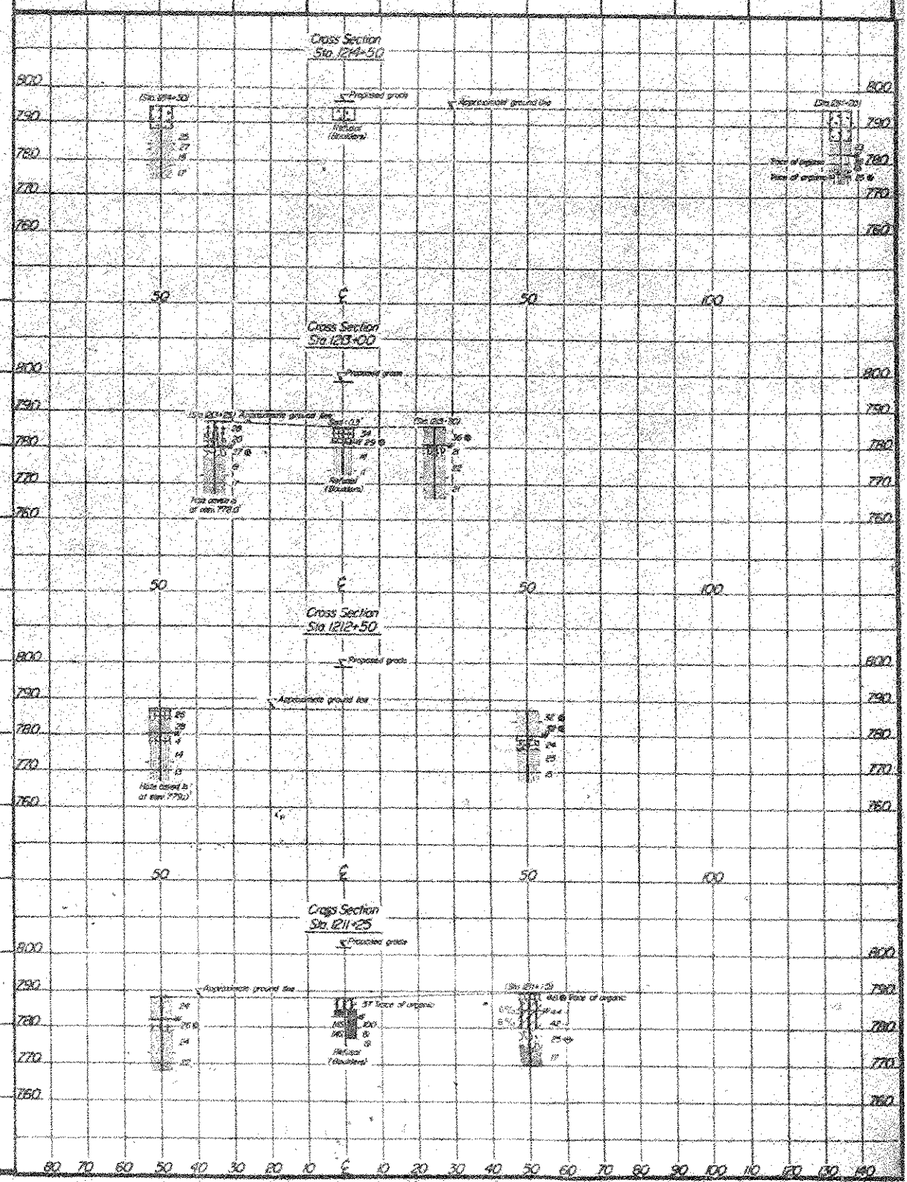
9
17

Revised
2/26/63

CROSS SECTION INDEX

STATION	SHEET
1211+25	9
1212+50	9
1213+00	9
1214+50	9





Revised
2/26/63

SOIL PROFILE
FRANKLIN COUNTY
FRA-270-25.19 N
FRA – 62 – 20.83
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

10
47

S-E17 Ramp

E-Nc Ramp

S-W17 Ramp

W-S17 Ramp

Cross Section
Sta. 1196+50

Cross Section
Sta. 1196+00

Cross Section
Sta. 1195+50

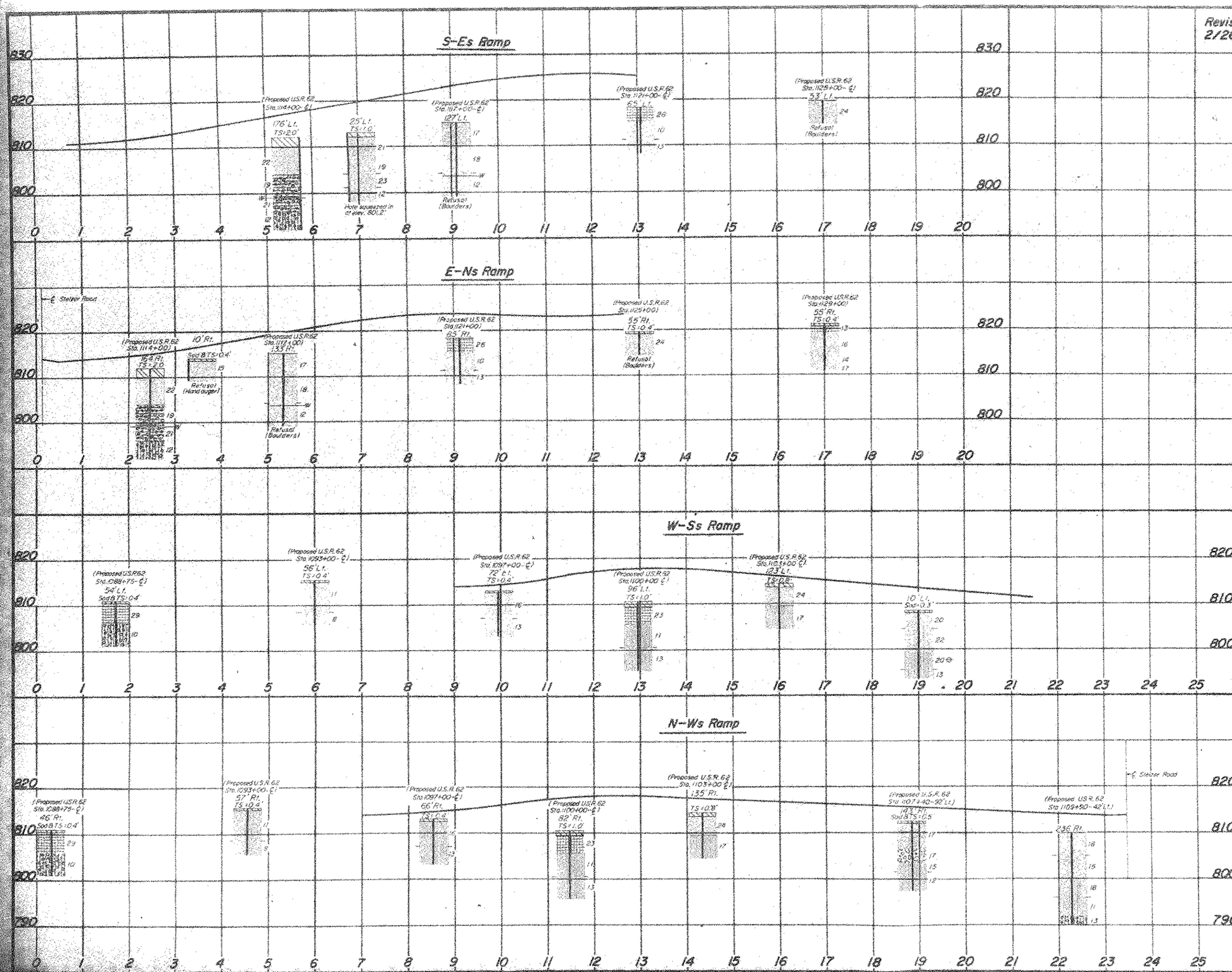
Cross Section
Sta. 1195+00

Cross Section
Sta. 1194+50

Revised
2/26/63

SOIL PROFILE
FRANKLIN COUNTY
FRA-62-20.83
FRA-250-25.34 N
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

11
47



GENERAL INFORMATION

INTRODUCTION

THE PROJECT CONSISTS OF THE CONSTRUCTION OF 1.17 MILES OF IR 270, BEGINNING 0.34 MILE SOUTH OF MCCUTCHEON ROAD AND 0.4 MILE EAST OF STELZER ROAD, EXTENDING SOUTHWARD TO SOUTHEASTWARD AND TERMINATING IMMEDIATELY NORTH OF EXISTING USR 62, APPROXIMATELY 0.75 MILE EAST OF THE STELZER ROAD-USR 62 INTERSECTION.

PROPOSED GRADE INDICATES A MAXIMUM PROPOSED 13-FOOT CUT.

GEOLOGY OF THE PROJECT

THE ALIGNMENT TRAVERSES A FLAT PORTION OF THE GLACIATED MISSISSIPPI VALLEY PLAIN, IN AN AREA WHERE THIN TO MODERATELY DEEP GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK-MOUNTED MECHANICAL SOIL AUGER: ON OCTOBER 31 AND NOVEMBER 1, 1968.

INVESTIGATIONAL FINDINGS:

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINANTLY COMPRISED OF SANDY SILTS (A-4a), WITH SOME SANDY GRAVELS (A-2-4), SILT CLAYS (A-6a AND A-6b) AND CLAY (A-7-6), GENERALLY HAVING LOW MOISTURE CONTENTS AND MOISTURE CONTENTS IN THE LOWER PORTIONS OF THE PLASTIC RANGE.

SHALE BEDROCK IS ANTICIPATED IN THE EXCAVATION AREA BETWEEN STATIONS 1462+00 AND 1474+00.

WET MATERIAL WAS ENCOUNTERED AT STATION 1488+00.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS— 45 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
STONE FRAGMENTS WITH SAND AND SILT	A-2-4(0)	A-2-4	55	11	10	10	14	29	7	15	5
STONE FRAGMENTS WITH SAND SILT, AND CLAY	A-2-6(0)	A-2-6	58	12	7	9	14	32	12	10	2
SANDY SILT	A-4(5)	A-4a	10	8	16	26	30	23	5	12	23
SILT AND CLAY	A-6(9)	A-6a	12	6	12	28	43	35	14	21	9
SILTY CLAY	A-6(10)	A-6b	12	4	11	25	48	38	16	19	2
CLAY	A-7-6(13)	A-7-6	11	3	8	28	50	45	19	22	3
WEATHERED SHALE				VISUAL CLASSIFICATION							1

TOPSOIL-XX"=APPROXIMATE DEPTH.

AUGER BORING-PLAN VIEW.

AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.

WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

FREE WATER.

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT. E.G. 15

SOIL PROFILE

FRANKLIN COUNTY

FRA-62-20.83

FRA-270-25.39 N

OHIO STATE HIGHWAY TESTING LABORATORY

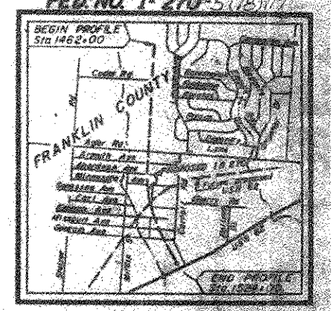
1620 W. BROAD ST., COLUMBUS, OHIO 43223

12 / 271

3

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

FED. NO. I-270-5(18)17



LOCATION MAP

Recon.-J.S.M. & S.L.S. 10/10/68

Drilling-Auger- W.S.B. 10/31/68 to 11/1/68

Drafting- A.E. 12/13/68

SUMMARY OF SOIL TEST DATA

NOTE:- NP SHOWN IN LIQUID LIMIT AND PLASTICITY INDEX COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC.
*DENOTES SAMPLE TAKEN AT OR NEAR GRADE.

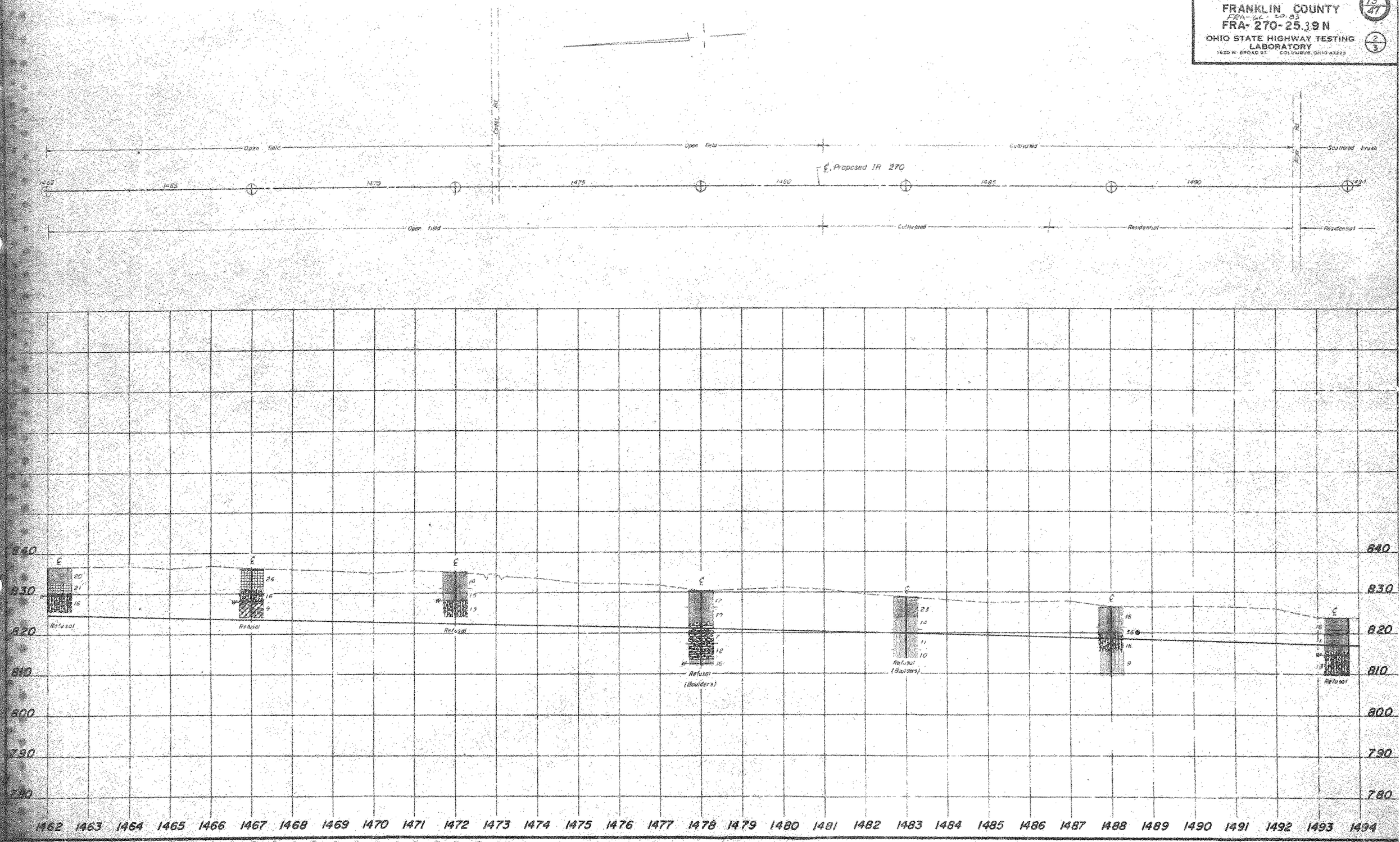
STATION & OFFSET		DEPTH FROM	TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
1462+00	CL	0.0	4.0	22	5	10	22	41	40	15	20	A-6a
		4.0	6.0	25	4	6	27	38	46	17	21	A-7-6
		6.0	11.5	72	8	5	6	9	32	10	16	A-2-4
1467+00	CL	0.0	5.0	7	5	11	23	54	45	20	26	A-7-6
		5.0	8.0	37	13	8	6	16	32	10	15	A-2-4
		8.0	12.5	(59	8	8	12	13	30	8	9)	
				GRAY WEATHERED SHALE								VISUAL
1472+00	CL	0.0	4.0	16	4	11	25	44	36	15	14	A-6a
		4.0	7.0	23	13	13	18	33	38	14	15	A-6a
		7.0	11.0	60	11	8	8	13	29	8	15	A-2-4
1478+00	CL	0.0	4.0	4	8	13	27	52	37	14	17	A-6a
		4.0	8.0	17	13	14	21	35	34	12	19	A-6a
		8.0	13.0	61	10	6	9	14	33	12	7	A-2-6a
		13.0	17.0	55	13	8	9	15	30	11	12	A-2-6
		17.0	18.5	25	13	23	20	19	NP	NP	16	A-4a
1483+00	CL	0.0	5.0	10	7	17	27	39	32	14	23	A-6a
		5.0	8.0	11	7	15	32	35	29	6	14	A-4a
		8.0	13.0	13	9	16	27	35	22	7	11	A-4a *
		13.0	15.5	11	10	16	33	30	23	7	10	A-4a
1488+00	CL	0.0	5.0	14	4	13	27	42	33	13	16	A-6a
		5.0	7.0	5	3	6	41	45	37	15	35	A-6b
		7.0	11.0	41	7	18	18	16	NP	NP	16	A-2-4*
		11.0	17.0	21	7	15	29	28	22	9	9	A-4a

STATION & OFFSET		DEPTH FROM	TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
1493+75	CL	0.0	4.0	9	4	13	27	47	38	16	16	A-6b
		4.0	8.0	37	6	10	23	24	23	9	11	A-4a *
		8.0	14.0	44	17	12	11	16	21	8	13	A-2-4 *
1499+00	CL	0.0	5.0	15	3	10	23	49	40	16	16	A-6b
		5.0	10.0	27	8	13	26	27	23	10	11	A-4a *
		10.0	13.0	14	8	15	29	34	22	7	9	A-4a *
		13.0	18.0	31	9	12	31	17	NP	NP	16	A-4a
1805+00	CL	0.0	4.0	0	2	6	35	57	46	20	18	A-7-6
		4.0	8.0	17	9	15	34	22	NP	NP	15	A-4a
		8.0	12.0	20	10	15	13	42	21	6	12	A-4a *
		12.0	17.0	19	9	14	29	29	23	6	9	A-4a *
1810+00	CL	0.0	5.0	8	5	14	44	29	28	8	13	A-4b
		5.0	9.0	8	7	16	30	39	24	6	10	A-4a
		9.0	14.0	26	8	13	25	28	23	9	10	A-4a *
		14.0	18.0	16	11	19	28	26	NP	NP	15	A-4a *
		18.0	21.0	16	12	22	30	20	NP	NP	16	A-4a
1817+00	CL	0.0	5.0	8	9	17	28	46	27	9	17	A-4a
		5.0	8.0	28	6	14	28	24	21	7	10	A-4a
		8.0	13.0	15	8	16	32	28	18	4	10	A-4a *
1821+00	10'LT	0.0	5.0	8	4	14	30	46	33	12	19	A-6a
		5.0	8.0	16	7	15	32	31	26	7	13	A-4a *
		8.0	13.0	12	9	16	28	35	23	5	12	A-4a *
		13.0	17.0	17	9	15	29	30	21	7	10	A-4a

SOIL PROFILE
FRANKLIN COUNTY
FRA-CC-20.83
FRA-270-25.39 N
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

13/47

2/3



SOIL PROFILE

FRANKLIN COUNTY

FRA-CR-20.83

FRA-270-25.39 N

OHIO STATE HIGHWAY TESTING LABORATORY

1620 W. BROAD ST. COLUMBUS, OHIO 43223

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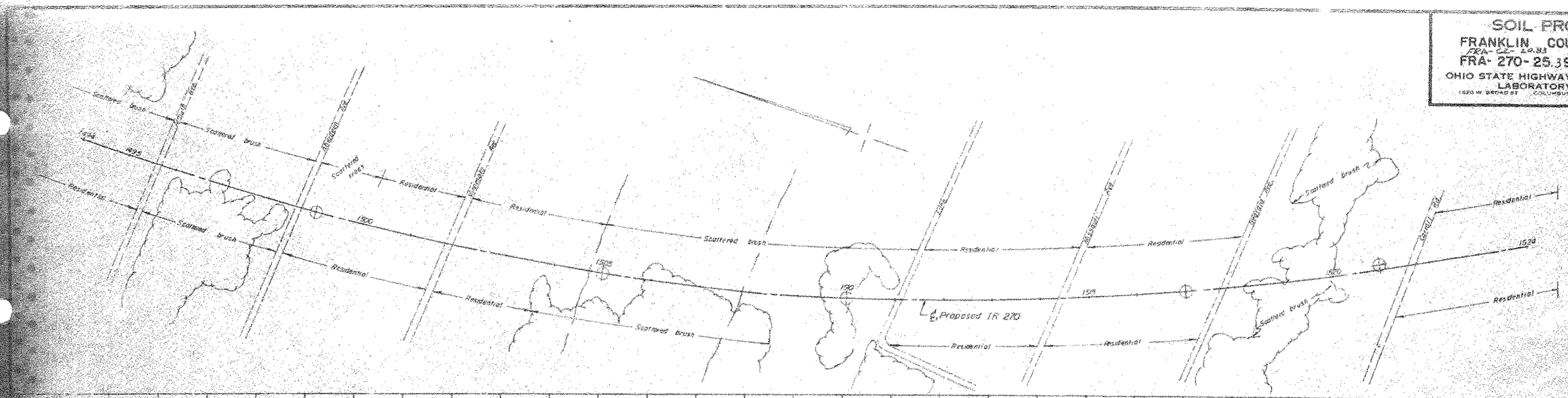

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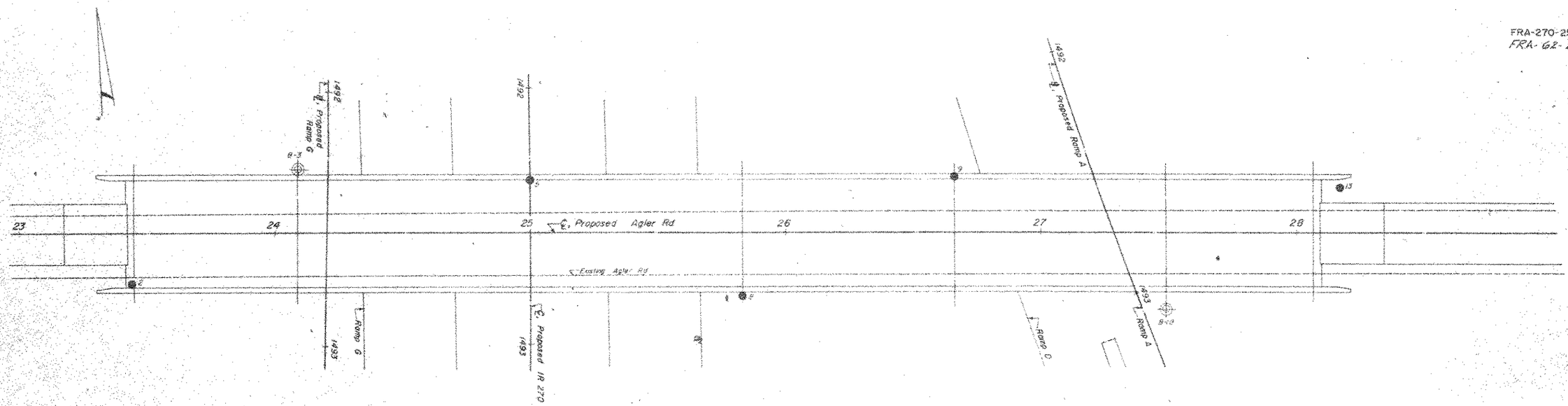
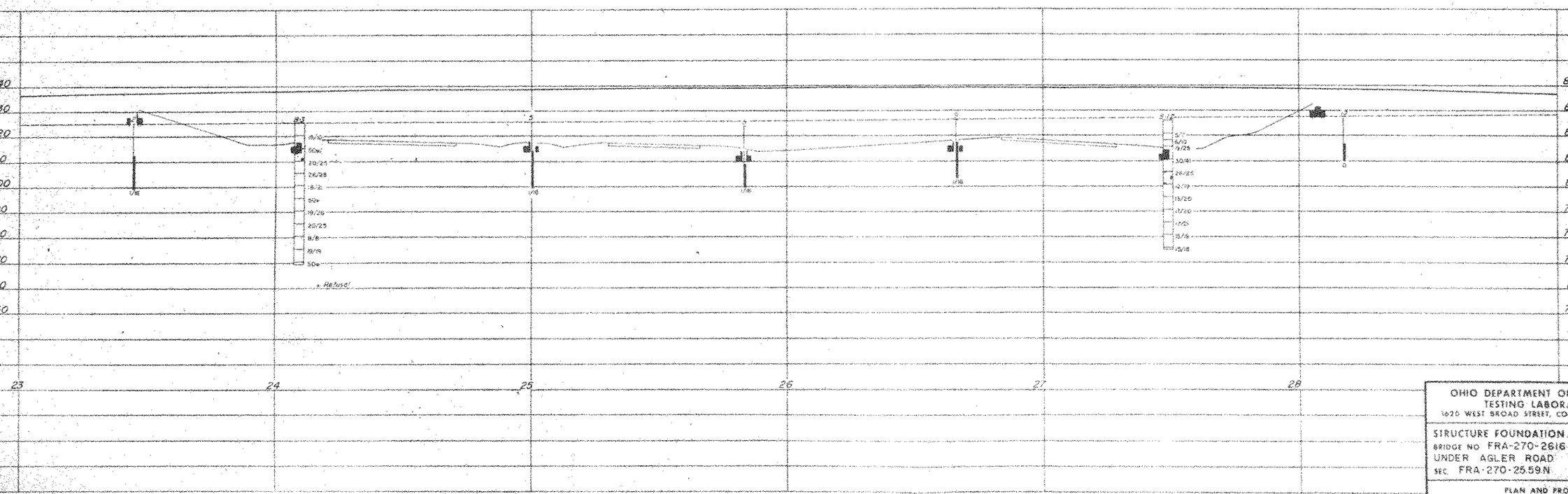
FRA-270-25.39 N
FRA-62-20.83





SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO FRA-270-2616 N
UNDER AGLER ROAD
SEC. FRA-270-25.59 N

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
EDW	R.D.R.	G.P.H.	6/6/69

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE RELATIVELY FLAT PORTION OF THE GLACIATED MISSISSIPPI VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT AND ALLUVIUM OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE BORINGS, MADE BETWEEN APRIL 25 AND 30, 1969, AND FIVE DRIVE AND PENETRATION TESTS, MADE ON MAY 26 AND 27, 1969.

INTERPRETATIONAL REMARKS

THE BORINGS ENCOUNTERED UNSTRATIFIED DEPOSITS OF BROWN TO VERY DENSE GRAY GRAVELLY SILTS WITH SOME INCLUSIONS OF GRAVELS AND COBBLES. THE BORINGS WERE TERMINATED AT 35 AND 55-FOOT DEPTHS, ELEVATIONS 775 AND 770 FEET, AFTER PENETRATING IN EXCESS OF 30 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

THE SOUNDINGS ENCOUNTERED GRADUAL INCREASE IN PENETRATION RESISTANCE WITH INCREASE IN DEPTH, AND WERE TERMINATED UPON ENCOUNTER WITH HARD REFUSAL AND REFUSAL TO PENETRATION AT 10 TO 26-FOOT DEPTHS, ELEVATIONS 816 TO 799 FEET, CONSIDERED TO BE IN VERY DENSE MATERIALS, AS DETAILED BY THE SOUNDINGS.

NO FREE WATER WAS ENCOUNTERED IN ANY OF THE BOREHOLES DRILLED.

NO TEST PENETRATED TO BEDROCK SURFACE.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  X = Number of Blows for First 6 inches.
  Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" ≤ 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with pile performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, or 2-1/2 and / or 3-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration test in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

LOG OF BORING

Date Started 4-29-69 — Sampler Type SS — Dia 1 3/8"
Date Completed 4-30-69 — Casing Length 40' — Dia 3 1/2"
Boring No. B-3 — Station & Offset 21+09, 25' Lt. (First Span)
Water Elev. —
Surface Elev. 825.3'

Elev.	Depth	Sample No.	Rec. (ft.)	Loss (ft.)	Description	Sample No.	% Agg.	% G	% S	% Sd	% Cay	L.L.	P.I.	W.C.	AASHO Class.
825.3	0														
820.3	5	15/10			Brown Gravelly Sandy Silt	1	19	6	16	29	30	31	6	15	A-6a
815.3	10	50/ (0.4')			Brown Sandy Gravelly Silt with Cobbles	2	48	12	9	14	17	-	-	12	-
810.3	15	20/25			Gray Sandy Gravelly Silt	3	22	9	13	26	23	21	2	10	A-4a
805.3	20	26/28			Gray Silty Sandy Gravel	4	33	17	15	17	18	21	5	10	A-2-4
800.3	25	19/21			Gray Silty Sandy Gravel	5	43	11	10	18	18	20	6	11	A-4a
795.3	30	50/ (0.7')			Gray Sandy Silt	6	0	12	22	33	33	19	5	10	A-4a
790.3	35	19/26			Gray Gravelly Sandy Silt	7	25	9	16	24	26	20	6	10	A-4a
785.3	40	20/25			Gray Gravelly Sandy Silt	8	29	9	25	24	29	19	5	10	A-4a
780.3	45	8/6			Gray Sandy Silt	9	12	9	15	27	28	19	5	14	A-4a
775.3	50	19/19			Gray Silty Sand	10	0	2	67	14	17	NP	NP	16	A-3a
770.3	55	50/ (0.1')			Gray Silty Sandy Gravel	11	41	12	8	12	8	-	-	11	-

BOTTOM OF BORING

Material

LOG OF BORING

Date Started 4-25-69 — Sampler Type SS — Dia 1 3/8"
Date Completed 4-29-69 — Casing Length 50' — Dia 3 1/2"
Boring No. B-12 — Station & Offset 27+42, 20' Rt. (First Span)
Water Elev. —
Surface Elev. 826.0'

Elev.	Depth	Sample No.	Rec. (ft.)	Loss (ft.)	Description	Sample No.	% Agg.	% G	% S	% Sd	% Cay	L.L.	P.I.	W.C.	AASHO Class.
826.0	0														
821.0	5	5/7			Greenish-Gray Silty Clay	1	0	4	13	28	55	40	18	23	A-6b
816.0	10	6/10			Brown Sandy Silt	2	9	7	20	31	33	24	7	18	A-4a
	15	19/25			Gray Sandy Silt	3	9	9	17	32	33	21	6	19	A-4a
811.0	20	20/21			Gray Sandy Silt	4	14	11	16	29	30	22	6	9	A-4a
806.0	25	26/25			Gray Silty Gravelly Sand with Cobbles	5	-	-	-	-	-	-	-	10	Visual
801.0	30	12/19			Gray Silty Gravelly Sand	6	22	29	14	12	23	21	5	14	A-2-4
796.0	35	13/20			Gray Silty Sand	7	3	40	30	10	17	NP	NP	13	A-3a
791.0	40	17/20			Gray Silty Gravelly Sand	8	15	24	18	16	17	21	3	14	A-3a
786.0	45	17/21			Gray Silty Sand	9	0	12	63	5	20	NP	NP	18	A-3a
781.0	50	15/19			Gray Sandy Silt	10	0	1	45	38	16	NP	NP	18	A-4a
776.0 775.0	55	15/18			Gray Silt	11	0	0	2	80	18	NP	NP	20	A-4b

BOTTOM OF BORING

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 Sieve)	0.42mm (No. 40 Sieve)	0.074mm (No. 200 Sieve)	0.005mm	

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2616 N
UNDER AGLER ROAD
SEC. FRA-270-2559 N

CHECKED BY	REVIEWED BY	DATE
R.D.R.	G.P.H.	5/5/69

Test Location No. —
Station & Offset —
Surface Elev. — Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition —

Capacity "R" in Thousands of Pounds

Test Location No. —
Station & Offset —
Surface Elev. — Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition —

Capacity "R" in Thousands of Pounds

Test Location No. —
Station & Offset —
Surface Elev. — Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition —

Capacity "R" in Thousands of Pounds

Test Location No. 2
Station & Offset 33+49.20 RT
REAR ABUTMENT
Surface Elev. 825.9 Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition GOOD

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 5
Station & Offset 29+00.24 LT
SECOND PIER
Surface Elev. 825.9 Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition GOOD

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 8
Station & Offset 25+03.25 RT
THIRD PIER
Surface Elev. 823.9 Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition GOOD

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 9
Station & Offset 24+46.22 LT
FOURTH PIER
Surface Elev. 837 Water Elev. —
Piling —
Hammer —
Formula —
Reference —
Rod Condition GOOD

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 12
Station & Offset 20+17.18 LT
FORWARD ABUTMENT
Surface Elev. 828.0 Water Elev. —
FRA-62-20.83
FRA-270-25.39N
Piling —
Hammer —
Formula —
Reference —
Rod Condition GOOD

TEST ROD

Capacity "R" in Thousands of Pounds

OHIO STATE HIGHWAY
TESTING LABORATORY
1600 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-26.16N
UNDER AGLER ROAD
SEC. FRA-270-25.59N

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	R.G.R.	G.P.H.	6/6/69

FRANKLIN COUNTY
FRA-270-25.39N
FRA-(62-20.83

(2/42) (1/3)

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE RELATIVELY FLAT PORTION OF THE GLACIATED MISSISSIPPI VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE BORINGS AND FOUR DRIVE ROD PENETRATION TESTS, MADE BETWEEN MAY 25 AND 27, 1969. ALSO INCLUDED IN THIS REPORT IS THE LOG OF BORING MADE FOR THE STRUCTURE FOUNDATION INVESTIGATION MADE FOR THE PROPOSED STRUCTURE DESIGNATED FRA-270-2667.

INVESTIGATIONAL FINDINGS

THE BORINGS ENCOUNTERED UNSTRATIFIED DEPOSITS OF SILTS TO VERY DENSE SANDY GRAVELLY FILLS WITH SOME INTERVALS OF GRAVELS AND COBBLES. THE BORINGS WERE TERMINATED AT 41 AND 51-FOOT DEPTHS, ELEVATIONS 760 AND 769 FEET, AFTER PENETRATING IN EXCESS OF 30 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

ROD SOUNDINGS ENCOUNTERED GRADUAL INCREASE IN PENETRATION RESISTANCE WITH INCREASE IN DEPTH, AND WERE TERMINATED UPON ENCOUNTER WITH NEAR-REFUSAL TO PENETRATION AT 17 TO 45-FOOT DEPTHS, ELEVATIONS 801 TO 795 FEET, CONSIDERED TO BE IN VERY DENSE MATERIALS, AS REVEALED BY THE BORINGS.

NO FREE WATER WAS ENCOUNTERED IN ANY OF THE ROD SOUNDING HOLES.

NO TEST PENETRATED TO BEDROCK SURFACE.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  X = Number of Blows for First 6 inches.
  Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z Indicates Final Measurement of Penetration, in Inches.
- W Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm No. 10 sieve	0.42mm No. 40 sieve	0.074mm No. 200 sieve	0.005mm	

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system-and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for this project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

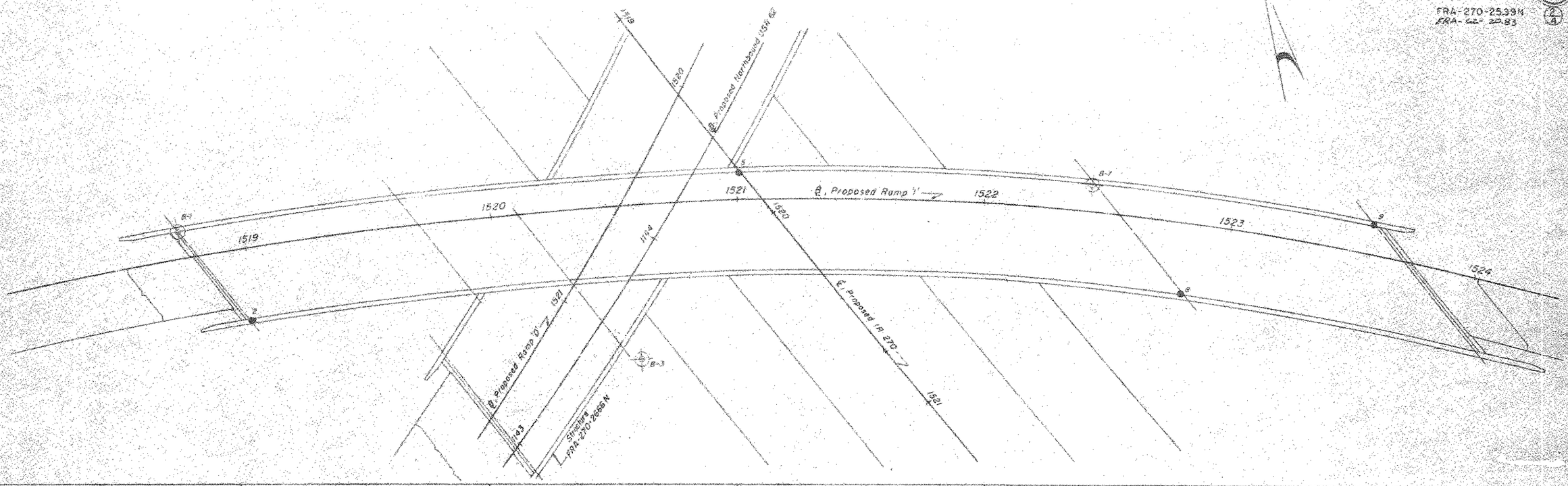
OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2667
UNDER RAMP 'I'
SEC. FRA-270-2559N

CHECKED BY	REVIEWED BY	DATE
L.H.L.	R.D.P.	5/19/69

19/47

FRA-270-25.39N
FRA-CR-22.83



FRA-270-2539N
FRA-62-20.83

LOG OF BORING

Date Started 5-27-69 | Sampler Type SS | Dia 3 1/8" | Water Elev —
Date Completed 5-28-69 | Casing Length 30' | Dia 3 1/2" | Surface Elev 819.5'
Boring No B-1 | Station & Offset 1518+74, 11' Lt. (Rear Abutment)

Elev	Depth	Sm Per (ft)	Rec (ft)	Loss (ft)	Description	Sample No	Physical Characteristics: % Rock	% G	% S	% Silt	% Clay	L.L.	P.I.	w.c.	SHTO Class.
819.5	0														
	2														
	4														
814.5	5	9/11			Brown Sandy Silt	1	8	10	18	34	30	24	9	27	A-4a
812.0	7														
	8	8/12			Brown Sandy Silt	2	10	9	18	31	32	25	10	20	A-4a
809.5	10	16/30			Gray Gravelly Sandy Silt	3	18	11	16	25	30	19	6	10	A-4a
807.0	12														
	13	19/20			Gray Sandy Silt	4	8	14	18	31	29	19	6	12	A-4a
804.5	15	16/22			Gray Gravelly Sandy Silt	5	18	11	16	30	25	19	6	12	A-4a
	17														
799.5	20	50* (0.9')			Gray Gravelly Sandy Silt	6	20	11	15	27	27	21	8	12	A-4a
	22														
796.5	23	50* (0.9')			Gray Gravelly Sandy Silt	7	19	12	17	25	31	22	9	11	A-4a
793.5	25	16/23			Gray Gravelly Sandy Silt	8	15	15	18	24	28	21	8	11	A-4a
	27														
790.5	30	50* (0.7')			Gray Gravelly Sandy Silt	9	16	11	17	30	26	20	7	10	A-4a
	32														
787.5	35	50* (0.6')			Gray Clayey Sandy Gravel	10	42	11	11	13	23	30	11	12	A-6a
778.9					BOTTOM OF BORING *Refusal										

LOG OF BORING

Date Started 5-1-69 | Sampler Type SS | Dia 1 3/8" | Water Elev —
Date Completed 5-2-69 | Casing Length — | Dia — | Surface Elev 820.0'
Boring No B-3 | Station & Offset 1520+57, 63' Rt. (Rear Pier)

Elev	Depth	Sm Per (ft)	Rec (ft)	Loss (ft)	Description	Sample No	Physical Characteristics: % Rock	% G	% S	% Silt	% Clay	L.L.	P.I.	w.c.	SHTO Class.
820.0	0														
	2														
815.0	5	3/4			Gray Sandy Clay	1	0	3	15	39	41	35	15	27	A-6a
810.0	10	50*/ (0.4')			Gray Silt and Clay	2	–	–	–	–	–	–	–	24	Visual
805.0	15	24/25			Gray Sandy Silt	3	0	12	19	39	30	21	7	12	A-4a
802.5	17	40/*			Gray Sandy Silt	4	0	15	21	32	32	25	10	11	A-4a
800.0	20	40/*			Gray Silty Sandy Gravel	5	64	13	7	9	7	NP	NP	14	A-1-b
797.5	22	50/*			Gray Sandy Gravel	6	77	11	4	3	5	–	–	10	–
795.0	25	40/*			Gray Silty Sandy Gravel	7	54	17	9	12	8	–	–	10	–
790.0	30	40/*			Gray Sandy Silt with Cobbles	8	–	–	–	–	–	–	–	32	Visual
785.0	35	50* (0.6')			Gray Sandy Silt	9	–	–	–	–	–	–	–	19	Visual
780.0	40	11/23			Gray Silty Clay	10	0	2	2	21	75	37	17	24	A-6b
775.0	45	31/50			Gray Silty Clay	11	0	1	1	20	78	41	19	23	A-7-6
770.0	50	32/50			Gray silty Clay	12	0	4	3	26	67	42	17	18	A-7-6
769.0					BOTTOM OF BORING *Refusal										

LOG OF BORING

Date Started 5-26-69 | Sampler Type SS | Dia 1 3/8" | Water Elev —
Date Completed 5-27-69 | Casing Length 35' | Dia 3 1/2" | Surface Elev 820.0'
Boring No B-2 | Station & Offset 1522+43, 13' Lt. (Forward Pier)

Elev	Depth	Sm Per (ft)	Rec (ft)	Loss (ft)	Description	Sample No	Physical Characteristics: % Rock	% G	% S	% Silt	% Clay	L.L.	P.I.	w.c.	SHTO Class.
820.0	0														
	2														
815.0	5	7/8			Brown Sandy Clay	1	10	9	16	30	35	22	6	32	A-6a
812.5	7	7/7			Brown Gravelly Sandy Silt	2	16	8	15	28	33	22	7	13	A-4a
810.0	10	9/14			Gray Gravelly Sandy Silt	3	23	12	20	19	26	19	5	12	A-4a
807.5	12	10/13			Gray Gravelly Sandy Silt	4	17	13	14	29	27	18	5	10	A-4a
805.0	15	15/28			Gray Gravelly Sandy Silt	5	20	15	16	25	24	19	5	11	A-4a
	18														
800.0	20	20/30			Gray Sandy Gravelly Silt	6	24	7	16	21	32	21	7	11	A-4a
797.5	22														
795.0	25	12/26			Gray Sandy Gravelly Silt	7	25	7	14	26	28	22	8	13	A-4a
790.0	30	50/*			Gray Gravelly Sandy Silt	8	17	9	8	46	20	NP	NP	20	A-4a
785.0	35	50* (0.7')			Gray Gravelly Silt	9	32	3	9	30	26	22	7	13	A-4a
780.0	40	50*			Gray Silty Sandy Gravel	10	53	15	6	8	18	22	7	20	A-6a
779.5					BOTTOM OF BORING *Refusal										

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2667
UNDER RAMP I
SEC. FRA-270-2559N

BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
S.A.J.	R.C.	L.N.L.	6/18/69

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. 2
Station & Offset 152+28.20 RT
REAR ABUTMENT
Surface Elev. 820.0 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Bot
Bot
Bot
Bot
Top

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 5
Station & Offset 152+60 11 LT
CENTER PIER
Surface Elev. 820 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 9
Station & Offset 152+84.29 RT
FORWARD PIER
Surface Elev. 820.0 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

TEST ROD

Capacity "R" in Thousands of Pounds

Test Location No. 9
Station & Offset 152+58 12 LT
FORWARD ABUTMENT
Surface Elev. 820.0 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

FRA-62-20.83
FRA-270-25.39N

TEST ROD

Capacity "R" in Thousands of Pounds

2/4T
4/4

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2667
UNDER RAMP 'I'
SEC. FRA-270-25.59N

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	L.N.L.	R.D.R.	6/18/63

GENERAL DESCRIPTION

TOPOGRAPHY

[illegible]

[illegible]

GEOLOGY AND CONSTRUCTION OF THE PROJECT

[illegible]

EXCAVATION

[illegible]

EXPERIMENTAL WORK

[illegible]

[illegible]

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS— 157 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL	[illegible]	A-1-a	77	11	-	2	5	-	-	10	4
GRAVEL WITH SAND	[illegible]	A-1-a	32	49	16	3	7	22	3	14	3
SCARCE OR FREE GRAVEL	-----	A-3a	28	39	25	23	13	26	6	15	6
GRAVEL OR STONE FRAGMENTS WITH SAND AND SILT	[illegible]	A-1-b	56	32	11	35	14	18	6	14	7
SANDY SILT	A-4(5)	A-4a	12	30	27	31	14	-	7	13	140
SILT	A-4(7)	A-4b	3	9	13	75	19	38	18	28	-
SILT AND CLAY	A-6(9)	A-6a	4	8	15	33	44	33	13	20	17
SILTY CLAY	A-7(12)	A-6b	4	8	3	39	50	37	17	22	20
CLAY	A-7-6(13)	A-7-b	2	3	9	36	50	44	21	23	10
WEATHERED ROCK			VISUAL CLASSIFICATION								2
VARIOUS GREEN STRATA			VISUAL CLASSIFICATION								-

- SOIL AGE OR TOPOGRAPHIC APPEARANCE MAY...
- AUGER BORING-PLAN VIEW.
- DRIVE SAMPLE BORING-PLAN VIEW.
- AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.
- DRIVE SAMPLE BORING PLOTTED TO VERTICAL SCALE ONLY.

NOTE: [illegible]

- WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.
- INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT.
- FREE WATER.
- BOXES TO BE USED FOR "STANDARD PRESERVATION" TEST. ASSEMBLY OF BOXES FOR FIRST 5 INCHES. ASSEMBLY OF BOXES FOR SECOND 5 INCHES.

SOIL PROFILE

FRANKLIN COUNTY

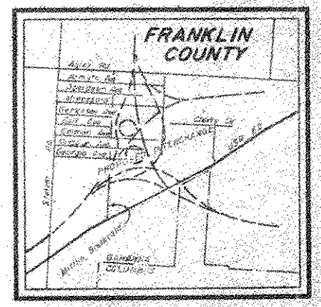
FRA-62-20.88

FRA-270-25.39N SUPPL.

OHIO STATE HIGHWAY TESTING LABORATORY

1600 W. BROAD ST., COLUMBUS, OHIO 43223

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.



LOCATION MAP

Recon. S.L.S. 5/21/63

Drilling Auger J.W.P. 5/26/63 to 5/29/63

Drafting A.F. 6/30/69

PROJECT INDEX

STATIONS FROM	STATIONS TO	PLAN VIEW SHEET	PROFILE SHEET	CUT MAX	FILL EMB MAX
USR 62 (Northbound Lane)					
1120+00	1152+00	3 & 4	6	-	19'
1152+00	1170+00	4	7	2'	17'
Ramp J					
1109+00	1119+00	3	6	1'	8'
Ramp K					
1113+00	1126+00	3	6	-	6'
Ramp I					
1501+00	1526+00	3 & 4	7	-	41'
Ramp E					
1517+00	1524+00	3	7	3'	8'
Ramp C					
1518+00	1526+00	4	8	-	32'
Ramp G					
1497+00	1517+00	3 & 4	8	6'	5'
Ramp D					
1488+00	1515+00	4 & 5	8	11'	21'
Ramp A					
1495+00	1508+00	4 & 5	9	4'	2'
Ramp F					
1514+00	1525+00	4	9	8'	8'
Ramp H					
1495+00	1508+00	4	9	9'	9'

SOIL PROFILE

FRANKLIN COUNTY
ERA-62-20.83
FRA-270-25.39N SUPPL.

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS 23, OHIO

(23 27)

(2 5)

SUMMARY OF SOIL TEST DATA

NOTE: SEE EXPLANATION OF LABORATORY SOIL CLASSIFICATION METHOD FOR EXPLANATION OF SOIL CLASSIFICATIONS.
SOIL PROFILE SHEET FOR EXPLANATION OF ROCK CLASSIFICATIONS.

STATION & OFFSET	DEPTH FROM	DEPTH TO	A-1	A-2	A-3	A-4	A-5	A-6	A-7	L.L.	P.I.	M.C.	CLASS.
SEE SOIL SURVEY REPORT													
1121+00 RT	0.0	1.0	18	5	11	39	36	31	14	37	17		A-4b
	1.0	5.5	22	7	14	16	15	16	8	25	8		A-4b
	5.5	11.0	30	9	14	16	13	13	5	17	2		A-4b
1121+00 CL	0.0	2.5	8	2	5	41	25	18	26	41	16		A-7-6
	2.5	7.0	16	4	10	22	22	17	9	30	10		A-4b
	7.0	10.0	27	10	14	20	13	11	5	19	4		A-4b
1122+00 CL	0.0	1.5	19	5	11	34	24	21	6	27	7		A-4b
1123+00 CL	0.0	3.0	9	3	5	37	30	16	18	42	17		A-7-6
	3.0	6.0	6	2	4	42	31	15	18	42	17		A-7-6
	6.0	9.0	32	12	19	22	6	5	4	26	6		A-4b
	9.0	10.0	9	3	5	33	21	18	11	37	15		A-6b
1124+00 RT	0.0	1.0	23	13	26	20	10	7	1	25	7		A-2b
	1.0	4.0	11	3	13	30	22	13	8	32	10		A-4b
	4.0	9.0	26	9	19	17	12	11	6	27	8		A-2b
	9.0	10.0	24	8	18	21	14	10	4	27	6		A-2b
1124+00 CL	0.0	1.0	7	3	6	35	26	23	15	41	18		A-7b
	1.0	10.0	17	9	15	28	19	14	5	29	6		A-4b
BENT 5													
1125+00 RT 12'W	0.0	1.0	7	3	10	37	23	13	7	31	10		A-6b
BENT 3													
1125+00 CL	0.0	1.0	13	5	12	35	21	13	1	27	5		A-4b
	1.0	3.0	20	8	15	30	11	10	6	23	5		A-4b
	3.0	6.0	27	9	15	27	9	8	5	21	4		A-4b
	6.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1126+00 RT	0.0	1.0	6	3	7	35	25	24	15	41	18		A-7b
	1.0	6.0	16	6	13	30	16	19	9	32	10		A-4b
1126+00 BL	0.0	1.0	8	3	6	37	25	21	13	39	16		A-6b
	1.0	3.0	14	5	10	30	19	22	13	39	16		A-6b
	3.0	10.0	21	6	12	31	15	15	9	32	11		A-6b
1126+00 CL	0.0	1.0	7	3	7	36	25	22	14	40	17		A-6b
	1.0	3.0	9	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1127+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1127+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1127+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1128+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1128+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1128+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1129+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1129+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1129+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1130+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1130+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1130+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1131+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1131+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1131+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1132+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1132+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1132+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1133+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1133+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1133+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1134+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1134+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1134+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1135+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1135+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1135+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1136+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1136+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1136+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1137+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1137+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1137+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1138+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1138+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1138+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1139+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1139+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1139+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1140+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1140+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1140+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1141+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1141+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1141+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1142+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1142+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1142+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1143+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1143+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1143+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1144+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1144+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1144+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1145+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1145+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1145+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1146+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1146+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1146+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1147+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1147+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1147+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1148+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1148+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1148+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1149+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1149+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1149+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1150+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1150+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1150+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1151+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1151+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1151+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1152+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1152+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1152+00 CL	0.0	1.0	6	3	7	36	25	23	14	41	18		A-6b
	1.0	3.0	8	3	8	30	21	29	14	40	17		A-6b
	3.0	11.0	17	4	9	30	16	14	10	32	11		A-6b
SEE SOIL SURVEY REPORT													
1153+00 RT	0.0	1.0	6	3	7	35	26	23	13	40	17		A-6b
	1.0	10.0	9	4	10	31	19	27	11	37	14		A-6b
1153+00 BL	0.0	1.0	5	2	6	37	27	23	14	41	18		A-6b
	1.0	3.0	7	3	10	30	23	27	15	43	19		A-6b
	3.0	10.0	11	4	9	31	17	28	15	43	19		A-6b
1153+00 CL	0.0	1.0

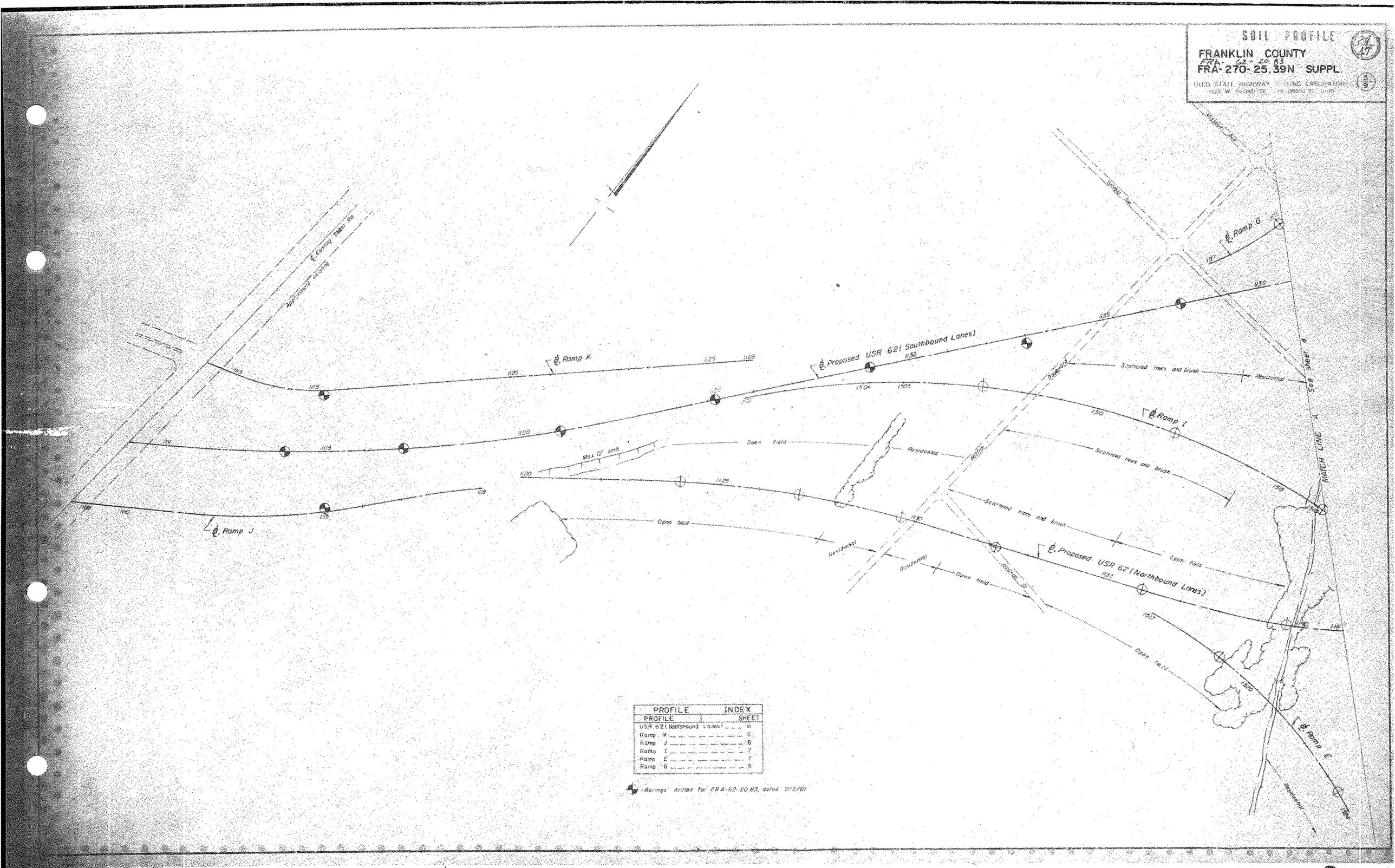
SOIL PROFILE

FRANKLIN COUNTY

FRA-62-20.83

FRA-270-25.39N SUPPL.

OHIO STATE HIGHWAY TESTING LABORATORY



PROFILE	INDEX
PROFILE	SHEET
USR 62 (Northbound Lanes)	6
Ramp K	6
Ramp J	6
Ramp I	7
Ramp E	7
Ramp G	8

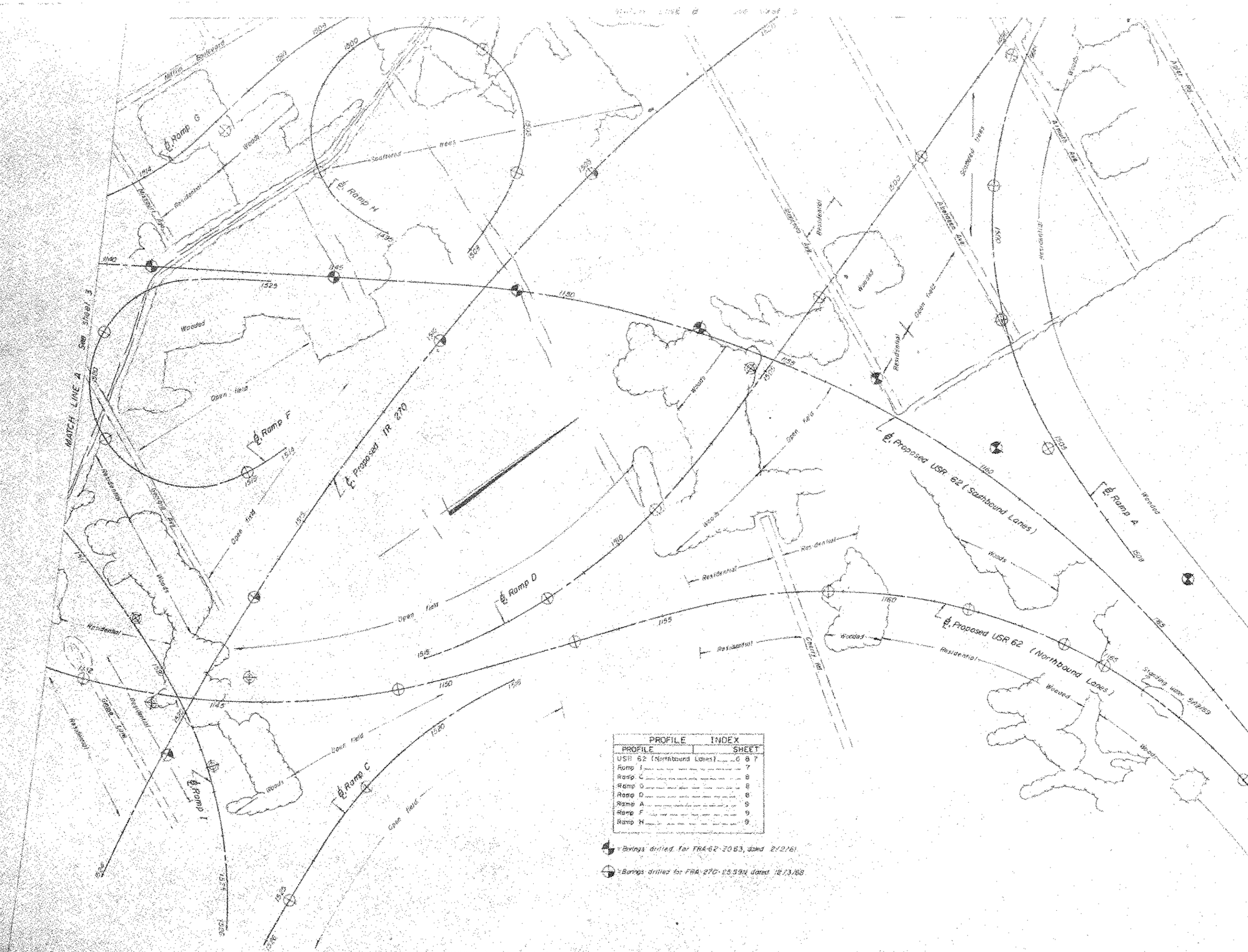
= Borings drilled for FRA-62-20.83, dated 2/2/61

SOIL PROFILE

FRANKLIN COUNTY

FRA-62-20.83

FRA-270-25.39N SUPPL.



PROFILE	INDEX
PROFILE	SHEET
USR 62 (Northbound Lanes)	6 8 7
Ramp I	7
Ramp C	8
Ramp G	8
Ramp D	8
Ramp A	9
Ramp F	9
Ramp H	9

= Borings drilled for FRA-62-20.83, dated 2/2/61

= Borings drilled for FRA-270-25.39N dated 12/3/68

SOIL PROFILE

FRANKLIN COUNTY
FRA- 62- 20.83
FRA-270-25.39 N SUPPL.

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS 23, OHIO

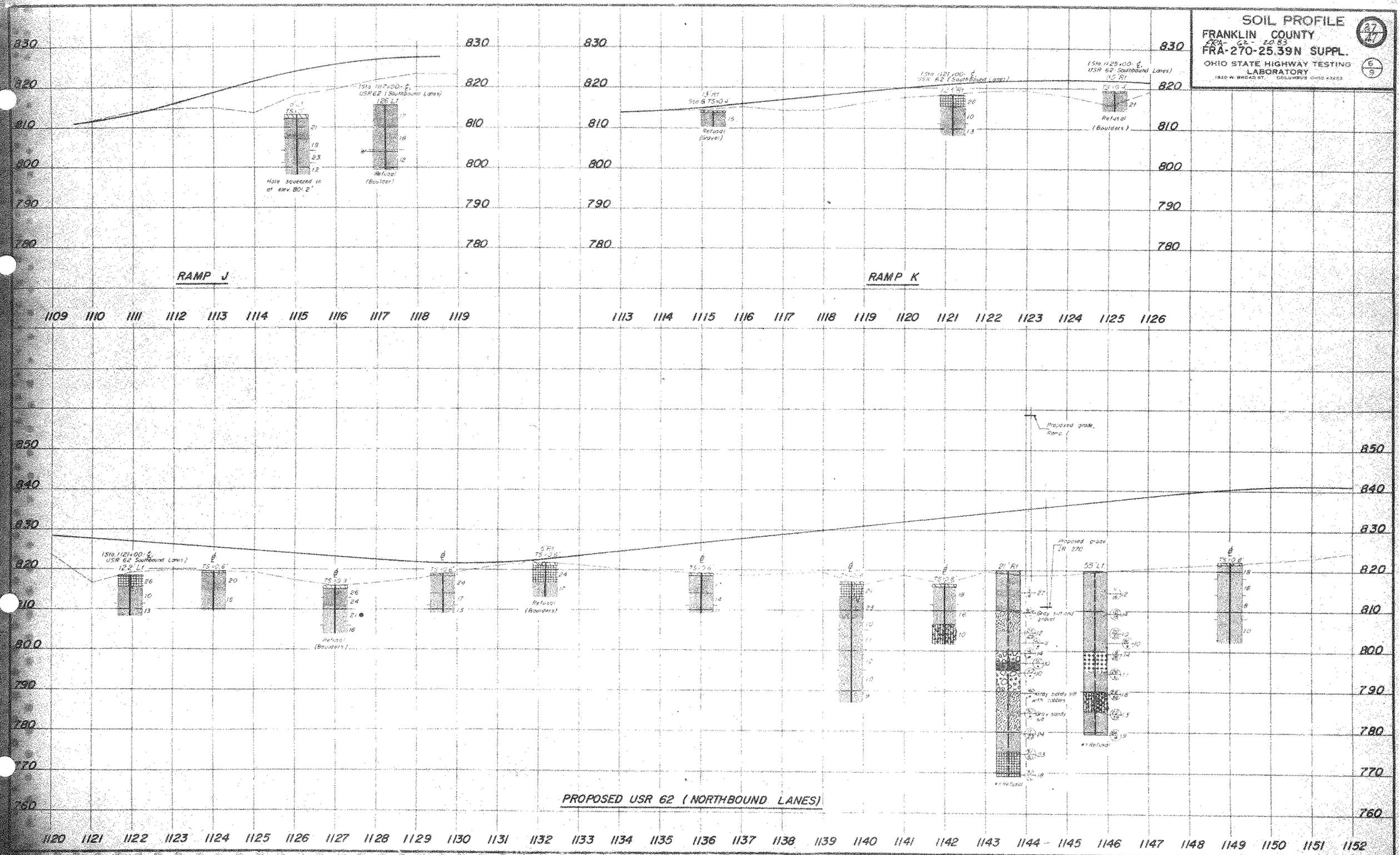
26
47

5
9



PROFILE	INDEX
PROFILE	SHEET
Ramp G	8
Ramp D	8
Ramp A	9

= Borings drilled for FRA-270-25.59N dated 12/3/68


SOIL PROFILE
FRANKLIN COUNTY
FRA-62-20.83
FRA-270-25.39N SUPPL.
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS OHIO 43223
27/47
6/9
RAMP J
RAMP K
PROPOSED USR 62 (NORTHBOUND LANES)
Hole squeezed in at elev. 801.2'
Refusal (Boulder)
Refusal (Gravel)
Refusal (Boulders)
Proposed grade, Ramp J
Proposed grade IR 270
Gray silt and gravel
Gray sandy silt with cobbles
Gray sandy silt
830
820
810
800
790
780
850
840
770
760
1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119
1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126
1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152

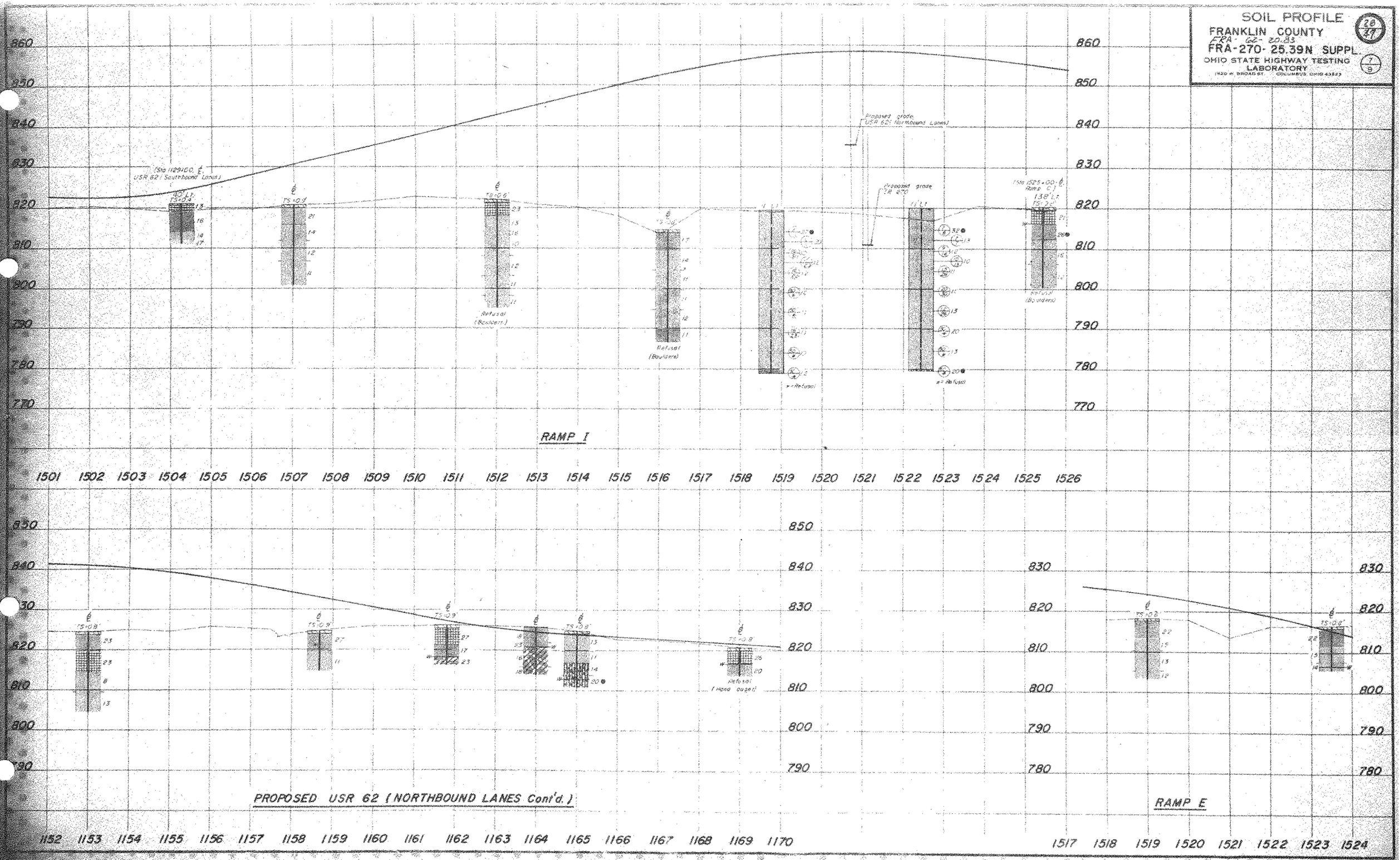
SOIL PROFILE

FRANKLIN COUNTY
FRA-62-20.83
FRA-270-25.39N SUPPL.

OHIO STATE HIGHWAY TESTING LABORATORY
1920 W. BROAD ST. COLUMBUS, OHIO 43223

28/29

7/9



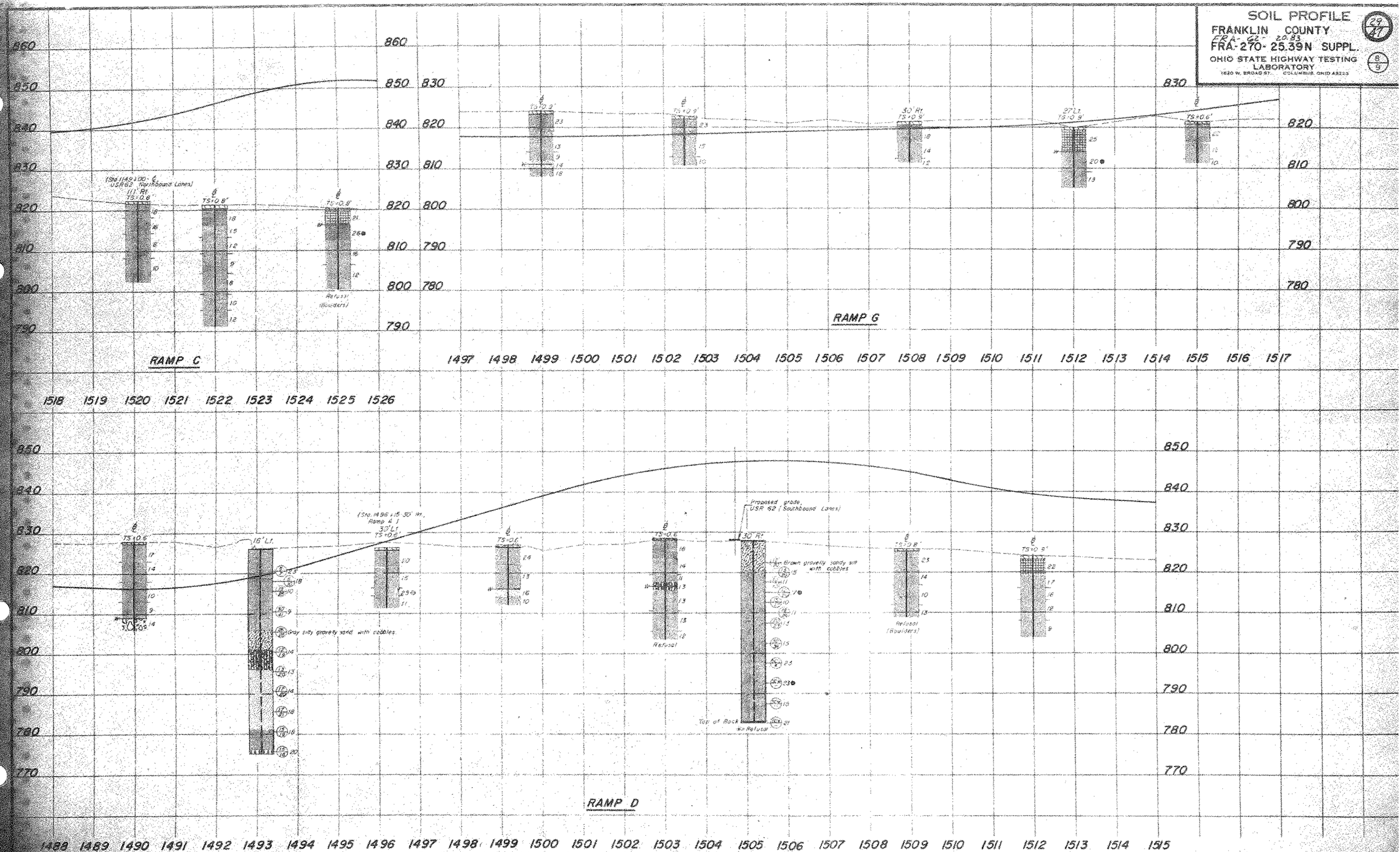
SOIL PROFILE

FRANKLIN COUNTY
FRA-62-20.93
FRA-270-25.39N SUPPL.

OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

29/47

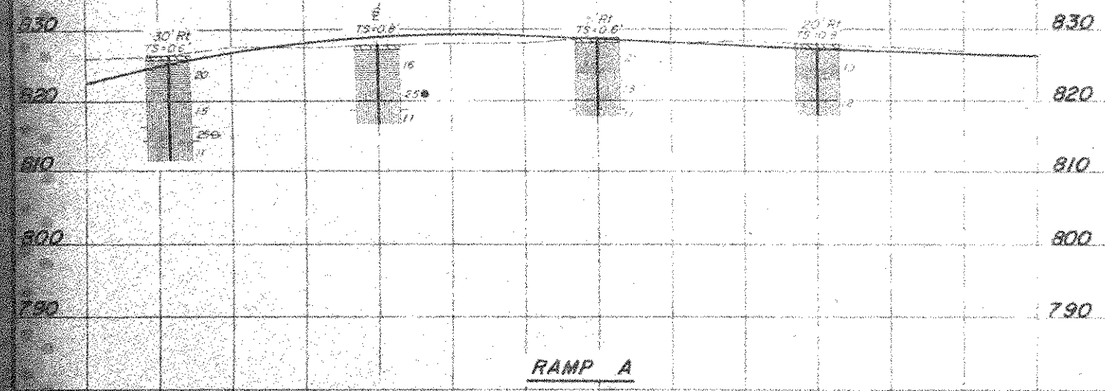
8/9

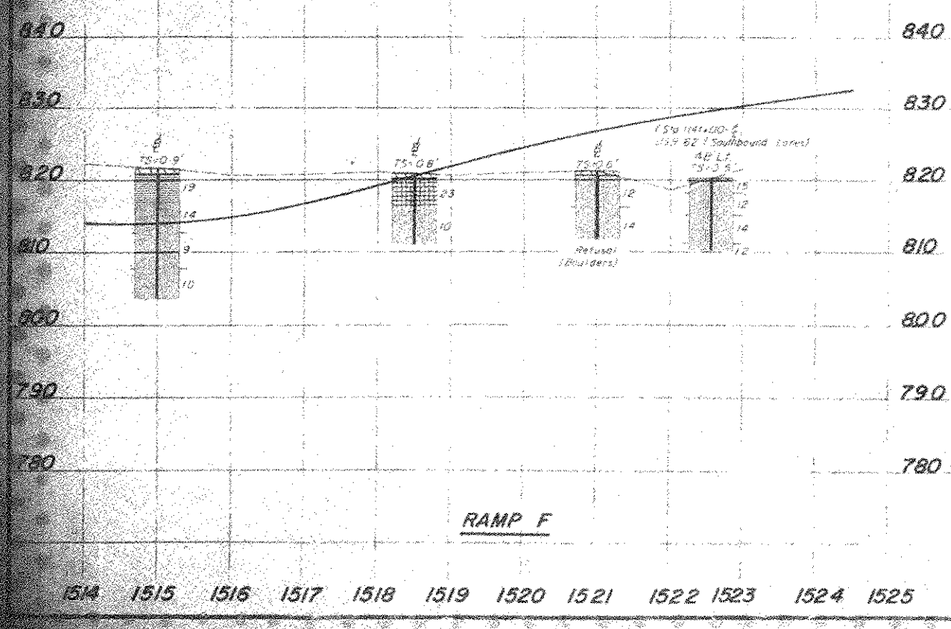


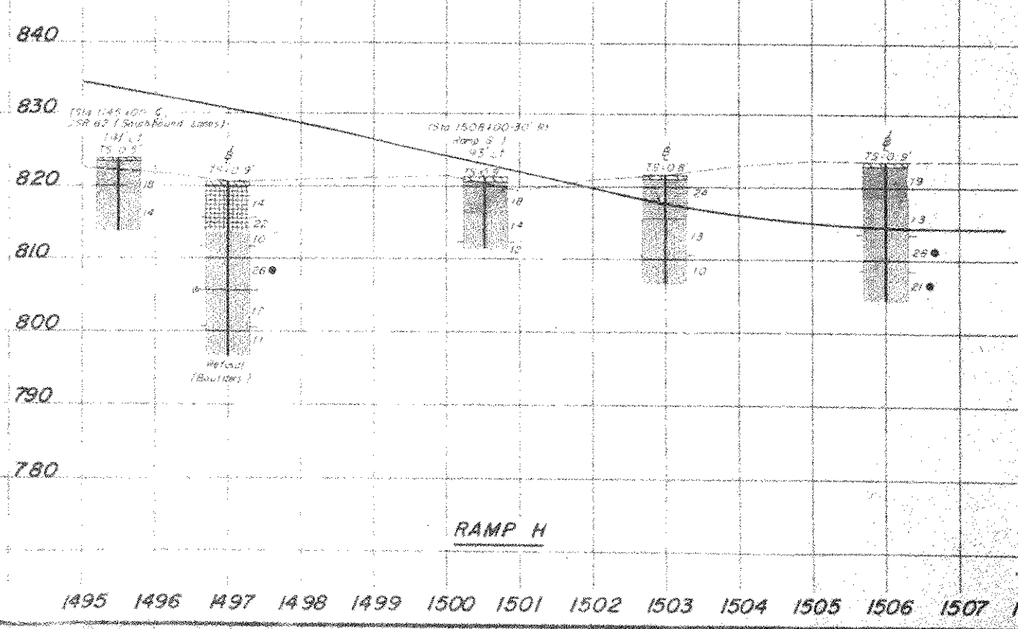
SOIL PROFILE

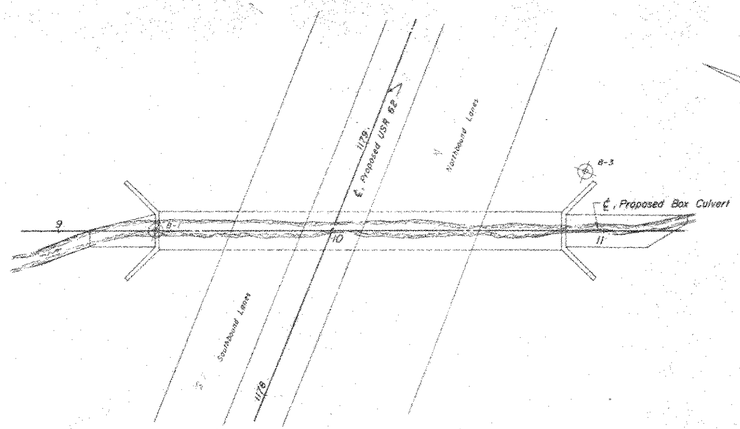
FRANKLIN COUNTY
FRA-62-20.83
FRA-270-25.39N SUPPL.
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

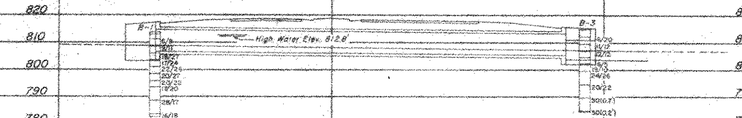
30
47
9
9











SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION

BRIDGE NO. FRA-62-0149
BOX CULVERT

SEC. FRA-270-62-(25.39N)(20.83)

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
J.E.C.	R.D.R.	G.P.H.	1/14/70

FRANKLIN COUNTY
FRA-270-62-(25.39N)(20.83)

32
47
2

GEOLOGY OF THE SITE
THE STRUCTURE LIES ARE LOCATED ON THE RELATIVELY FLAT PORTION OF THE GLACIATED MISSISSIPPI VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION
THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE BORINGS, MADE BETWEEN DECEMBER 22 AND 24, 1969.

INVESTIGATIONAL FINDINGS
THE BORINGS ENCOUNTERED UNSTRATIFIED INTERVALS OF STIFF CLAYS AND DENSE TO VERY DENSE SANDY GRAVELLY SILTS WITH SOME INTERVALS OF GRAVELS. THE BORINGS WERE TERMINATED AT 30 AND 31-FOOT DEPTHS, ELEVATIONS 784 AND 783 FEET, AFTER PENETRATING IN EXCESS OF 17 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

BEDROCK SURFACE WAS NOT ENCOUNTERED.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test. X = Number of Blows for First 6 inches. Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" << 10,000 lbs.
- Resistance "R" >> 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm	

LOG OF BORING

Date Started 12-22-69 — Sampler Type SS — Dia 1 3/8" — Water Elev —
Date Completed 12-23-69 — Casing Length 20' — Dia 3 1/2" — Surface Elev 823.6'
Boring No. B-1 — Station & Offset 1178+47, 60' Lt. (Box Culvert)

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
823.6	0				Top Soil										
811.1	12	6/8			Brown Silt and Clay	1	0	2	10	33	55	35	11	28	A-6a
808.6	15	9/11			Brown Sandy Clay	2	10	6	16	31	37	28	11	16	A-4a
806.1	18	19/27			Brown Sandy Clay	3	11	10	15	26	38	24	11	13	A-6a
803.6	21	17/24			Brown Gravelly Sandy Silt	4	19	11	14	23	33	22	5	12	A-4a
802.1	24	22/26			Brown Silty Gravelly Sand	5	28	47	12	-13	-	NP	NP	15	A-1-b
798.6	27	20/27			Gray Gravelly Sandy Silt	6	-	-	-	-	-	24	10	8	A-4a
796.1	30	20/22			Gray Gravelly Sandy Silt	7	17	14	15	23	31	25	9	12	A-4a
793.6	33	17/20			Gray Clayey Gravelly Sand	8	-	-	-	-	-	25	11	13	A-6a
788.6	38	28/17			Brown Silty Gravelly Sand	9	22	9	36	18	15	NP	NP	18	A-2-4
783.6	43	16/18			Brown Gravelly Sandy Silt	10	-	-	-	-	-	28	6	11	A-4a
782.6					BOTTOM OF BORING										

LOG OF BORING

Date Started 12-23-69 — Sampler Type SS — Dia 1 3/8" — Water Elev —
Date Completed 12-24-69 — Casing Length — Dia —
Boring No. B-2 — Station & Offset 1179+20, 78' Rt. (Box Culvert)

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
814.7	0														
812.2	2	6/20			Brownish-Gray Silty Clay	1	0	3	12	27	58	43	19	25	A-7-6
809.7	5	11/12			Brown Silt and Clay	2	0	5	16	26	51	33	13	21	A-6a
807.2	8	12/12			Brown Sandy Silt	3	10	10	15	32	33	24	10	15	A-4a
804.7	10	6/5			Brownish-Gray Gravelly Sandy Silt	4	17	16	15	30	22	NP	NP	17	A-4a
802.2	13	19/10			Gray Silt	5	0	4	10	66	20	NP	NP	13	A-4b
799.7	15	24/26			Gray Silty Sand	6	12	10	51	16	11	NP	NP	13	A-2a
794.7	20	20/22			Gray Sandy Silt	7	8	10	17	31	34	25	10	11	A-4a
789.7	25	50 (0.7')			Gray Silty Sandy Gravel	8	41	15	14	21	9	NP	NP	10	A-2-4
785.7	29				(Driller's Description)										
784.5	30	50 (0.2')			No Sample Recovered- Large Gravel with Silt and Clay/		?	?	?	?	?	?	?	?	?
					BOTTOM OF BORING										

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be considered as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-62-0149
BOX CULVERT
SEC. FRA-270-62-(25.39N)(20.83)

CHECKED BY	REVIEWED BY	DATE
R.D.R	G.P.H.	1/14/70

FRANKLIN COUNTY
FRA-270 & 62-(25.39)(25.83)

33
27
1
4

GEOLOGY OF THE SITE

THE STRUCTURE SITES ARE LOCATED ON THE RELATIVELY FLAT PORTION OF THE GLACIATED MISSISSIPPI VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF FIVE DRIVE SAMPLE BORINGS, MADE BETWEEN NOVEMBER 25 AND DECEMBER 5, 1969.

INVESTIGATIONAL FINDINGS

THE BORINGS ENCOUNTERED UNSTRATIFIED DEPOSITS OF STIFF CLAYS AND SILTS TO VERY LOOSE SANDY GRAVELLY SILTS WITH SOME INTERVALS OF GRAVELS. THE BORINGS WERE TERMINATED AT 26 TO 61-FOOT DEPTHS, ELEVATIONS 795 TO 758 FEET, AFTER PENETRATING IN EXCESS OF 20 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

BEDROCK SURFACE WAS NOT ENCOUNTERED.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  X = Number of Blows For First 6 inches.
  Y = Number of Blows For Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" Up to 10,000 lbs.
- Resistance "R" Over 10,000 lbs.
- Z Indicates Final Measurement of Penetration, in Inches.
- W Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Limestone Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

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Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
	12"	3" / 2.0mm No. 10 sieve	0.42mm No. 40 sieve	0.074mm No. 200 sieve	0.005mm	

LOG OF BORING

Date Started 12-5-69 — Sampler Type SS — Dia 1 3/8" — Water Elev ——
Date Completed 12-5-69 — Casing Length 10' — Dia 3 1/2" — Surface Elev 821.3'
Boring No B-3 — Station & Offset 2131+54, 26' Rt. (Box culvert)

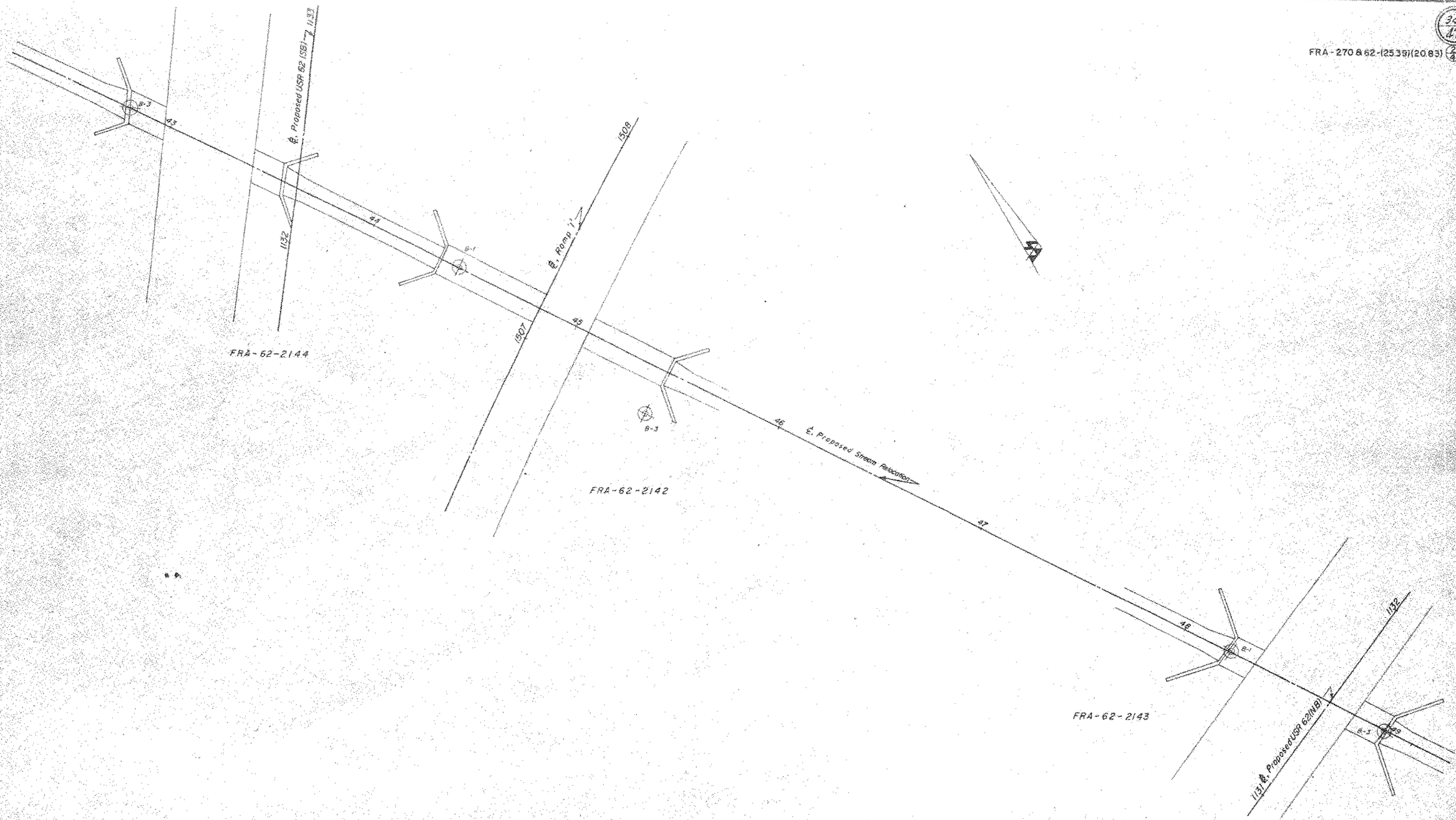
Elev	Depth	Std Pen (N)	Rec (")	Core (")	Description	Sample No	% Agg	% G	% S	% Sil	% Clay	L.L.	P.I.	W.C.	AASHO Class
821.3	0				Top Soil										
820.3	2														
818.8	4	7/11			Brownish-Gray Sandy Clay	1	6	9	16	25	44	31	12	17	A-6a
816.3	6	5/7			Brownish-Gray Clayey Silt	2	0	4	10	50	36	21	7	24	A-4b
813.8	8	12/24			Brownish-Gray Clayey Silt	3	9	3	4	69	15	27	7	17	A-4b
813.3	10	22/23			Gray Sandy Silt	4	12	10	17	36	25	20	6	12	A-4a
808.8	12	20/35			Gray Sandy Silt	5	9	9	17	35	30	23	10	11	A-4a
806.3	14	29/36			Gray Sandy Silt	6	12	11	16	30	31	21	6	8	A-4a
803.8	16	28/43			Gray Gravelly Sandy Silt	7	15	10	16	27	32	20	4	11	A-4a
801.3	18	29/47			Gray Sandy Silt	8	14	11	17	26	32	22	6	10	A-4a
	20														
	22														
	24														
796.3	25	25/42			Gray Sandy Silt	9	9	11	19	29	32	22	7	9	A-4a
795.3					A - BOTTOM OF BORING										

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for this project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO FRA-62-2142,2143 & 2144
BOX CULVERTS
SEC FRA-270 & 62-(25.39)(20.83)

CHECKED BY	REVIEWED BY	DATE
R.C.	R.D.R.	12/24/69



OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

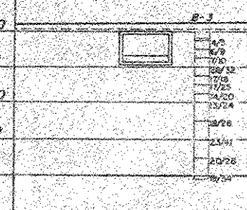
STRUCTURE FOUNDATION INVESTIGATION

BRIDGE NO. FRA-62-2142, 2143& 2144
BOX CULVERTS

SEC. FRA-270&62-(25.39)(20.83)

BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
J.E.C.	L.N.L.	R.D.R.	12/28/62



FRA-62-2144

USR 62 (SB) Stationing

1132

1133

1506



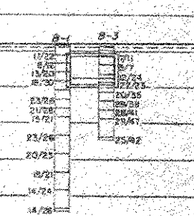
FRA-62-2142

Ramp I Stationing

1507

1508

1131



FRA-62-2143

USR 62(NB) Stationing

1132

SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-62-2142, 2143 & 2144
BOX CULVERTS
SEC. FRA-270&62-(25.39)(20.83)
PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
J.E.C.	L.N.L.	R.D.R.	12/24/62

LOG OF BORING

Date Started 11-25-69 Sampler Type SS Dia 3 3/8"
Date Completed 11-26-69 Casing Length 40' Dia 3 1/2"
Boring No. B-1 Station & Offset 1107+15, 40' Lt. (Culvert)

Water Elev. ____

Surface Elev 821.0'

Elev.	Depth	Std. Pen (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
821.0	0				Soil										
818.5	2	4/5			Brownish-Gray Clay	1	0	3	7	32	58	50	25	24	A-7-6
816.0	4	4/5			Brownish-Gray Silty Clay	2	0	4	13	40	43	37	18	19	A-6b
813.5	6	7/8			Brownish-Gray Sandy Silt	3	11	9	18	32	30	24	8	15	A-4a
811.0	8	4/6			Brown Sandy Silt	4	12	8	17	48	15	23	7	15	A-4a
808.5	10	6/9			Gray Sandy Silt	5	14	12	17	32	25	21	7	12	A-4a
806.0	12	15/14			Gray Gravelly Sandy Silt	6	19	9	16	33	23	23	9	12	A-4a
803.5	14	7/9			Gray Gravelly Sandy Silt	7	–	–	–	–	–	22	8	12	–
801.0	16	7/9			Gray Gravelly Silt	8	–	–	–	–	–	22	8	12	–
798.5	18	9/16			Gray Sandy Gravelly Clay	9	35	8	12	18	27	27	13	12	A-6a
796.0	20	14/22			Gray Sandy Gravelly Clay	10	–	–	–	–	–	19	7	10	–
	22	23/24			Gray Sandy Silt	11	10	9	20	38	23	20	7	13	A-4a
791.0	24	14/23			Gray Sandy Silt	12	12	13	26	31	18	NP	NP	9	A-4a
786.0	26	20/31			Gray Silty Sand	13	11	22	39	18	10	NP	NP	14	A-3a
781.0	28	14/17			Gray Gravelly Silt	14	–	–	–	–	–	21	7	12	–
776.0	30	15/19			Gray Sandy Silt	15	13	11	18	23	35	22	8	14	A-4a
771.0	32	21/27			Gray Sandy Silt	16	11	12	18	26	33	22	8	12	A-4a

BOTTOM OF BORING

LOG OF BORING

Date Started 12-4-69 Sampler Type SS Dia 3 3/8"
Date Completed 12-5-69 Casing Length 15' Dia 3 1/2"
Boring No. B-1 Station & Offset 1131+42, 68' Lt. (New Culvert)

Water Elev. ____

Surface Elev 821.6'

Elev.	Depth	Std. Pen (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
821.6	0				Top Soil										
820.6	2														
819.1	4	17/22			Brown Gravelly Clay	1	16	2	6	35	41	29	12	15	A-6a
816.6	6	8/12			Brown Gravelly Sandy Silt	2	14	13	18	16	41	21	5	14	A-6a
814.1	8	13/20			Brown Sandy Silt	3	8	13	18	27	34	21	6	13	A-4a
811.6	10	18/30			Brown Gravelly Sandy Silt	4	16	12	25	17	30	22	7	13	A-4a
809.1	12				No Sample Recovered - Gray Gravelly Sandy Silt - Hole Caved In (Driller's Description)		F	I	S		H	A	L		
806.6	14	23/26			Gray Gravelly Sandy Silt	5	15	11	17	41	16	23	8	10	A-4a
804.1	16	21/28			Gray Gravelly Sandy Silt	6	26	11	15	21	27	24	9	10	A-4a
801.6	18	15/21			Gray Sandy Silt	7	13	5	18	31	33	22	7	11	A-4a
796.6	20	23/26			Gray Gravelly Sandy Silt	8	16	11	17	24	32	22	7	9	A-4a
791.6	22	20/25			Gray Sandy Silt	9	10	11	21	27	31	20	7	9	A-4a
786.6	24	18/21			Gray Gravelly Sandy Silt	10	21	10	16	26	27	20	7	11	A-4a
781.6	26	14/24			Gray Sandy Gravelly Silt	11	29	17	13	17	24	20	7	13	A-4a
776.6	28	14/26			Gray Sandy Silt	12	11	13	17	28	31	19	6	13	A-4a

BOTTOM OF BORING

LOG OF BORING

Date Started 12-1-69 Sampler Type SS Dia 3 3/8"
Date Completed 12-2-69 Casing Length 34' Dia 3 1/2"
Boring No. B-3 Station & Offset 1156+74, 62' Rt. (New Culvert)

Water Elev. ____

Surface Elev 839.2'

Elev.	Depth	Std. Pen (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
839.2	0				Sod & Top Soil										
837.2	2														
835.7	3	4/6			Brownish-Gray Silty Clay	1	0	2	6	33	59	43	20	24	A-7-6
834.2	5	4/6			Brownish-Gray Silt and Clay	2	0	3	12	27	58	34	13	22	A-6a
831.7	8	8/10			Brownish-Gray Sandy Gravelly Silt	3	29	7	10	25	29	23	7	22	A-4a
829.2	10	5/8			Brown Sandy Silt	4	9	9	17	36	29	22	6	14	A-4a
826.7	12	5/9			Brown Gravelly Sandy Silt	5	22	13	15	24	26	23	7	16	A-4a
824.2	14	35/20			Gray Sandy Silt	6	0	10	15	-15	–	NP	NP	18	A-1-b
821.7	16	8/14			Gray Gravelly Sandy Silt	7	16	10	16	28	30	20	7	12	A-4a
819.2	18	7/14			Gray Sandy Gravelly Silt	8	29	8	14	23	26	21	7	11	A-4a
814.2	20	8/15			Gray Sandy Gravelly Silt	9	27	12	16	19	26	20	7	11	A-4a
809.2	22	4/7			Gray Sandy Gravelly Silt	10	37	15	30	17	21	20	5	12	A-2a
804.2	24	16/25			Gray Sandy Silt	11	24	11	18	25	32	29	4	11	A-4a
799.2	26	13/19			Gray Silty Sandy Gravel	12	39	12	14	15	20	21	6	12	A-2-4
794.2	28	10/20			Gray Sandy Silt	13	12	10	23	29	26	18	4	9	A-4a
789.2	30	25/41			Gray Gravelly Sandy Silt	14	25	14	17	21	23	20	5	12	A-4a
784.2	32	31/50			Gray Silty Sandy Gravel	15	59	23	10	-12	–	NP	NP	13	A-1-a
779.2	34	19/28			Gray Silty Sand	16	14	58	17	-17	–	NP	NP	16	A-1-b

BOTTOM OF BORING

LOG OF BORING

Date Started 12-3-69 Sampler Type SS Dia 3 3/8"
Date Completed 12-3-69 Casing Length 33' Dia 3 1/2"
Boring No. B-2 Station & Offset 1132+53, 77' Lt. (New Culvert)

Water Elev. ____

Surface Elev 820.0'

Elev.	Depth	Std. Pen (N)	Rec. ft.	Loss ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
820.0	0														
818.0	2				Top Soil										
817.5	3	4/5			Brownish-Gray Sandy Clay	1	9	4	13	26	48	35	16	21	A-6b
815.0	5	6/9			Brown Silt and Clay	2	–	–	–	–	–	28	12	23	–
812.5	7	7/10			Brownish-Gray Sandy Silt	3	12	9	18	26	36	24	9	17	A-4a
810.0	9	28/32			Gray Silty Gravelly Sand	4	20	31	20	14	15	NP	NP	12	A-3a
807.5	12	17/18			Grey Gravelly Sandy Silt	5	23	16	22	19	20	NP	NP	11	A-4a
805.0	15	17/23			Gray Sandy Gravelly Silt	6	23	9	15	29	24	21	7	11	A-4a
802.5	17	14/20			Gray Sandy Silt	7	10	10	18	22	34	20	5	11	A-4a
800.0	20	13/26			Gray Sandy Silt	8	11	10	7	46	26	NP	NP	10	A-4a
795.0	25	16/28			Gray Sandy Silt	9	13	10	21	30	28	NP	NP	11	A-4a
790.0	30	23/41			Gray Silty Sand	10	11	21	35	16	17	NP	NP	11	A-2a
785.0	35	20/26			Gray Sandy Silt	11	11	11	18	28	32	NP	NP	12	A-4a
780.0	40	19/24			Gray Silty Sandy Gravel	12	40	12	12	15	20	21	6	13	A-2-4
775.0					BOTTOM OF BORING										

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-62-2142, 2143 & 2144
BOX CULVERTS
SEC. FRA-270 & 62-(25.39)(20.83)
BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
S.A.J.	R.C.	R.D.R.	12/24/69

FRA-270 & 62-(25.39)(20.83) 4/4

SURFACE OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE RELATIVELY FLAT PORTION OF THE GLACIATED MISSISSIPPI VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE BORINGS, MADE BETWEEN DECEMBER 18 AND 23, 1969.

INVESTIGATIONAL FINDINGS

THE NATURAL SUBSOILS ENCOUNTERED CONSISTED PRIMARILY OF STIFF CLAYS AND SILTS TO VERY DENSE SANDY GRAVELLY SOILS WITH SOME LAYERINGS OF GRAVELS. THE BORINGS WERE TERMINATED AT 23.2-FOOT DEPTH, ELEVATIONS 799 AND 796 FEET, AFTER PENETRATING IN EXCESS OF 13 FEET OF MATERIAL REQUIRING IN EXCESS OF 50 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST, POSSIBLY NEAR BEDROCK SURFACE.

BEDROCK SURFACE WAS NOT ENCOUNTERED.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  - X = Number of Blows for First 6 Inches.
  - Y = Number of Blows for Second 6 Inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z Indicates Final Measurement of Penetration, in Inches.
- W—— Indicates Free Water Elevation.
- ▼—— Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm	

LOG OF BORING

Date Started 12-18-69 — Sampler Type SS — Dia 3 3/8" — Water Elev. —
Date Completed 12-22-69 — Casing, Length 20' — Dia 3 1/2" — Surface Elev 819.6'
Boring No. B-1 — Station & Offset 19+43, 20' Rt. (Box Culvert)

Elev.	Depth	Std. Pen. (ft)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics: % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
819.6	0														
817.1	2														
814.6	4	5/6			Brown Sandy Gravelly Clay - Fill Material	1	18	9	11	20	42	37	16	24	A-6b
812.1	6	3/6			Brown Sandy Clay	2	0	8	17	29	46	30	11	21	A-6a
809.6	8	17/24			Brownish-Gray Sandy Clay	3	12	9	16	29	34	26	11	14	A-6a
807.1	10	12/22			Gray Gravelly Sandy Silt	4	24	12	15	25	24	23	7	13	A-4a
804.6	12	50 (0.1')			Gray Gravelly Sandy Silt	5	–	–	–	–	–	–	–	11	Weath.
802.1	14	26/24			Brown Silty Sandy Gravel	6	41	17	9	16	17	29	10	9	A-2-4
799.6	16				No Sample Recovered - Sandy Gravel (Driller's Description)		V.	L		S				L	
797.1	18	50/			Gray Weathered Shale Fragments	7	49	4	6	20	20	33	10	12	A-2-4

BOTTOM OF BORING

LOG OF BORING

Date Started 12-23-69 — Sampler Type SS — Dia 3 3/8" — Water Elev. —
Date Completed 12-23-69 — Casing, Length 14' — Dia 3 1/2" — Surface Elev 819.8'
Boring No. B-2 — Station & Offset 19+45, 50' Rt. (Box Culvert)

Elev.	Depth	Std. Pen. (ft)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics: % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
819.8	0														
817.3	2				Sod										
814.8	4	5/4			Brownish-Gray Silty Clay	1	2	4	15	24	57	44	20	25	A-7-6
812.3	6	11/11			Brown Sandy Clay	2	7	7	18	28	43	34	16	22	A-6a
809.8	8	16/21			Brown Sandy Clay	3	12	10	16	29	33	25	11	14	A-6a
807.3	10	26/20			Gray Gravelly Sandy Silt	4	25	10	15	29	31	22	8	11	A-4a
804.8	12	29/29			Gray Silty Sand	5	12	49	16	5	18	22	8	10	A-2-4
802.3	14	50/			Gray Sandy Gravelly Clay	6	23	8	10	39	21	39	15	9	A-6a
799.8	16	50/			Gray Clayey Sandy Gravel	7	45	14	10	13	18	31	11	26	A-2-6
797.3	18	50/			Gray Weathered Shale Fragments	8	–	–	–	–	–	–	–	4	Weath.

BOTTOM OF BORING

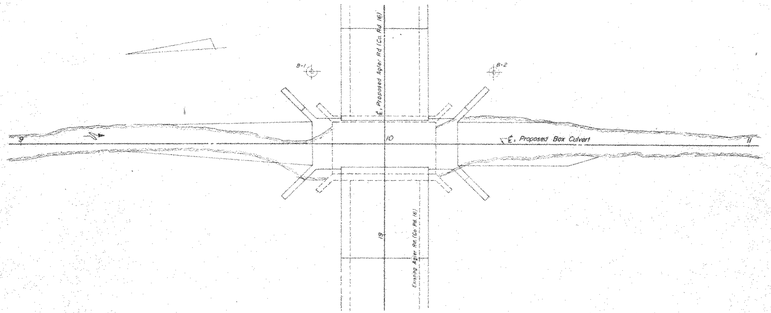
NOTE: Information shown by this subsurface investigation was determined solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

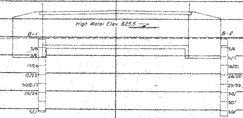
OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-AGLER RD (CO. RD. 16)
BOX CULVERT
SEC. FRA-270 & 62-(25.39N)(20.83)

CHECKED BY	REVIEWED BY	DATE
R.D.R.	G.P.H.	1/14/70

FRA-270 8.62-(25.39N)(20.85)





SCALE: 1" = 20'

OHIO DEPARTMENT OF HIGHWAYS TESTING LABORATORY 1600 WEST BROAD STREET, COLUMBUS 23, OHIO			
STRUCTURE FOUNDATION INVESTIGATION BRIDGE NO. FRA-AGLER RD. (CO. RD. 16) BOX CULVERT SEC. FRA-270 8.62-(25.39N)(20.85)			
PLAN AND PROFILE			
DRAWN BY J.E.C.	CHECKED BY R.D.R.	REVIEWED BY G.P.M.	DATE 1/14/70

FRANKLIN COUNTY
FRA-270-25.59 N
PID No. 6A-20.83

39
27

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  X = Number of Blows for First 6 Inches.
  Y = Number of Blows for Second 6 Inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" =< 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z Indicates Final Measurement of Penetration, in Inches.
- Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Cool
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod) by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140 - pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Driven-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 2" O.D. Hvy-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration test in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	3.0mm No. 10 sieve	0.42mm No. 40 sieve	0.074mm No. 200 sieve	0.005mm	

LOG OF BORING

Date Started 5-26-69 | Sampler Type SD ... Dia. 2 3/8" | Water Level
Date Completed 5-29-69 | Sampling Weight 25 ... Fall 30" | Elevation 827.2*
Boring by Other (Miner Plan) | Station & Offset 150+33, 21' Rt. (Miner Plan)

Elev.	Depth	Sample No.	Type	Core Rec.	Description	Sample No.	Moisture Content Percentage							Unit Class.
							%							
827.2	0													
	4													
824.7		3/4			Brown Silt and Clay	1	0	5	7	47	41	34	11	28	A-4a
822.2	5				No Sample Recovered - Cobbles (Driller's Description)										
	8						T	I	B	O	A	L			
819.7		11/14			Brown Sandy Silt	2	8	11	18	36	27	20	6	13	A-4a
817.2	10	5/8			Gray Sandy Silt	3	13	18	20	24	27	21	6	12	A-4a
814.7	12														
	15	16/20			Gray Sandy Silt	4	11	16	17	28	28	19	5	12	A-4a
812.2	17	16/21			Gray Silty Sandy Gravel	5	46	8	10	16	20	18	3	11	A-4a
	20														
809.2	22	19/28			Gray Sandy Silt	6	12	11	16	29	32	20	5	12	A-4a
	25														
802.2	27	17/29			Gray Sandy Silt	7	11	12	17	31	29	20	5	11	A-4a
	30														
797.2	32	50* (0.8')			Gray Sandy Silt	8	14	12	16	29	29	19	4	19	A-4a
	35														
792.2	37	50* (0.8')			Gray Silty Sandy Gravel	9	39	13	11	19	18	22	8	26	A-4a
	40														
787.2	42	50*			BOTTOM OF BORING	10	61	21	7	11	-	89	22	30	A-4a
786.7					Gray Silty Sandy Gravel (Bedrock)										

LOG OF BORING

Date Started 5-26-69 | Sampler Type SD ... Dia. 2 3/8" | Water Level
Date Completed 5-29-69 | Sampling Weight 25 ... Fall 30" | Elevation 828.0*
Boring by Other (Miner Plan) | Station & Offset 150+33, 30' Rt. (Forward Pier)

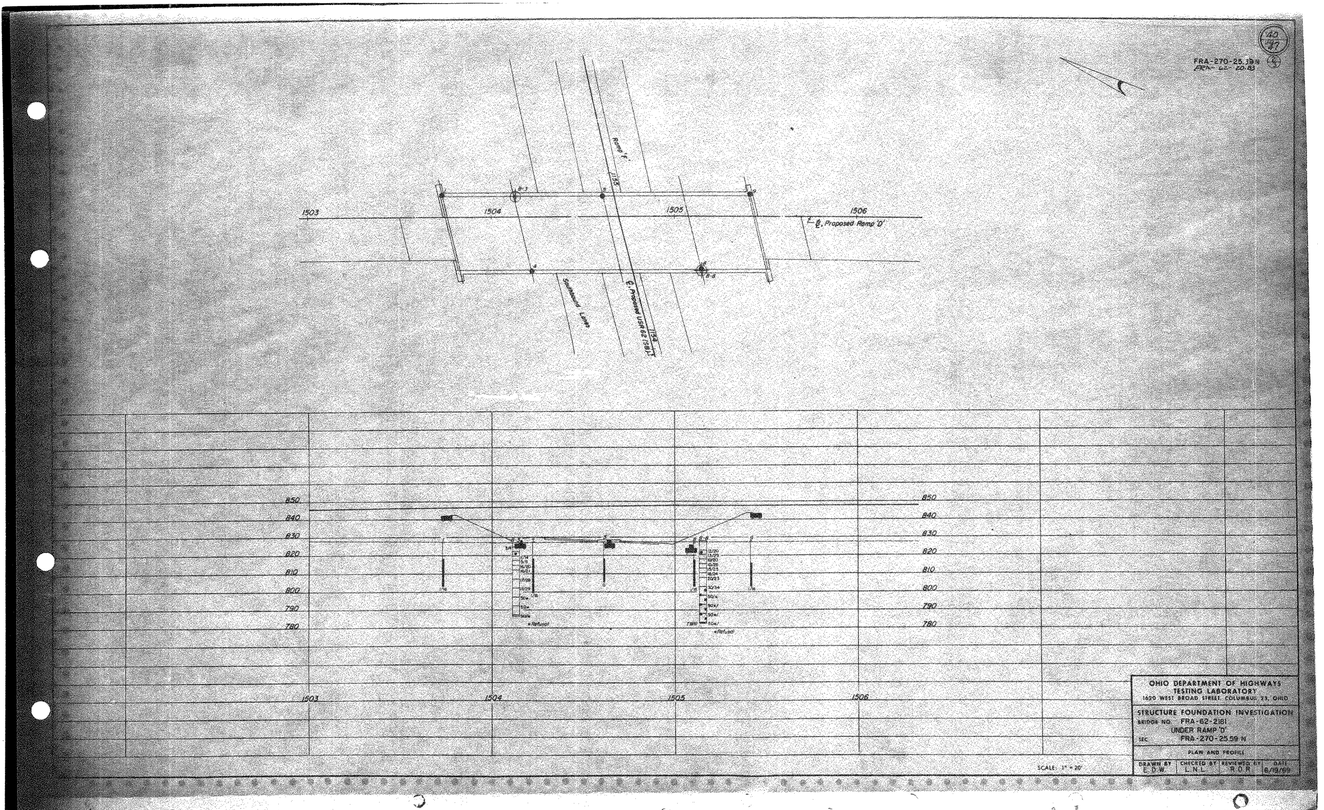
Elev.	Depth	Sample No.	Type	Core Rec.	Description	Sample No.	Moisture Content Percentage							Unit Class.
							%							
828.0	0													
	4													
823.0	5	12/25			Brown Gravelly Sandy Silt with Cobbles	1	-	-	-	-	-	-	20	Visual
820.5	8	13/29			Brown Gravelly Sandy Silt	2	20	9	17	21	23	18	5	15	A-4a
818.0	10	10/20			Gray Sandy Gravelly Silt	3	30	12	15	26	17	17	4	11	A-4a
815.5	12	10/26			Gray Gravelly Sandy Silt	4	19	25	10	40	16	20	7	17	A-4a
813.0	15	15/25			Gray Gravelly Sandy Silt	5	16	20	15	36	23	26	3	10	A-4a
810.5	17	16/24			Gray Gravelly Sandy Silt	6	21	11	14	31	23	20	8	11	A-4a
808.0	20	20/23			Gray Gravelly Sandy Silt with Cobbles	7	18	20	15	31	26	20	7	13	A-4a
	22														
803.0	25	30/34			Gray Gravelly Sandy Silt with Cobbles	8	22	10	13	29	24	17	5	15	A-4a
	28														
798.0	30	50*			Gray Silty Sandy Gravel with Cobbles	9	37	12	13	21	17	-	-	23	A-4a
	32														
793.0	35	50* (0.6')			Gray Silty Sandy Gravel with Cobbles	10	38	14	10	20	18	23	9	23	A-4a
	37														
788.0	40	300* (8.5')			Gray Silty Sandy Gravel with Cobbles	11	42	11	8	26	13	-	-	15	A-4a
	42														
783.0	45	50* (8.5')			TOP OF WEATHERED ROCK										
782.0					Natural BOTTOM OF BORING										
					** Gray Weathered Shale	12	37	16	9	19	19	-	-	21	Visual

NOTE: Information shown by this subsurface investigation was developed solely for its use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-62-2181
UNDER RAMP 'D'
SEC.
FRA-270-25.59 N

CHECKED BY	REVIEWED BY	DATE
L.N.L.	R.D.R.	6/19/69



FRA-270-25.19N
1503
1504
1505
1506
℄ Proposed Ramp 'D'
Ramp 'E'
Southbound Lanes
℄ Proposed USR 62 (FRA-62-2181)
850
840
830
820
810
800
790
780
Refusal
SCALE: 1" = 20'
OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1600 WEST BROAD STREET, COLUMBUS 23, OHIO
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-62-2181
UNDER RAMP 'D'
SEC. FRA-270-25.59 N
PLAN AND PROFILE
DRAWN BY E.D.W.
CHECKED BY L.N.L.
REVIEWED BY R.D.R.
DATE 8/19/69

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "C" in Thousands of Pounds

Test Location No. _____
Station & Offset 1055+23.30 RT
Surface Elev. 827 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition GOOD

Capacity "C" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "C" in Thousands of Pounds

Test Location No. 3
Station & Offset 1054+27.30 RT
Surface Elev. 827 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition GOOD

Capacity "C" in Thousands of Pounds

Test Location No. 4
Station & Offset 1054+27.30 RT
Surface Elev. 827 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "C" in Thousands of Pounds

Test Location No. 5
Station & Offset 1054+27.30 RT
Surface Elev. 827 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "C" in Thousands of Pounds

Test Location No. 6
Station & Offset 1054+27.30 RT
Surface Elev. 827 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "C" in Thousands of Pounds

Test Location No. 7
Station & Offset 1054+27.30 RT
Surface Elev. 827 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition GOOD

Capacity "C" in Thousands of Pounds

41
49

FRA-270-25.39 N

OHIO STATE HIGHWAY
TESTING LABORATORY
1631 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-62-2181
UNDER RAMP 'D'
SEC. FRA-270-25.59 N

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	L.N.L.	R.D.R.	6/19/69

FRANKLIN COUNTY
FRA-270-25.39N
FRA-62-20.83

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED ON THE RELATIVELY FLAT PORTION OF THE GLACIATED [illegible] VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF ONE DRIVE SAMPLE BORING, ONE DRIVE SAMPLE-CORE BORING, AND FOUR DRIVE ROD PENETRATION TESTS, MADE BETWEEN MAY 26 AND 29, 1969.

INVESTIGATIONAL FINDINGS

THE BORINGS DISCLOSED THAT UNSTRATIFIED INTERVALS OF DENSE TO VERY DENSE SANDY GRAVELLY SILTS WITH SOME INTERVALS OF GRAVELS AND COBBLES OVERLIE BEDROCK SURFACE, ENCOUNTERED IN BORING B-12 AT 40-FOOT DEPTH, ELEVATION 784 FEET. BORING B-4 WAS TERMINATED AT 51-FOOT DEPTH, ELEVATION 774 FEET, AFTER PENETRATING IN EXCESS OF 25 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST. BORING B-12 WAS TERMINATED AT 50-FOOT DEPTH, ELEVATION 774 FEET, AFTER PENETRATING 10 FEET INTO BEDROCK SURFACE.

ROD SOUNDINGS INDICATED GRADUAL INCREASE IN PENETRATION RESISTANCE WITH INCREASE IN DEPTH, AND WERE TERMINATED UPON ENCOUNTERING NEAR-REFUSAL AND REFUSAL TO PENETRATION AT 20 TO 35-FOOT DEPTHS, ELEVATIONS 803 TO 796 FEET, CONSIDERED TO BE IN VERY DENSE MATERIALS, AS REVEALED BY THE BORINGS.

NO FREE WATER WAS ENCOUNTERED IN ANY OF THE ROD SOUNDING HOLES.

LEGEND

- Auger Boring Location – Plan View.
- Press and / or Drive Sample and / or Core Boring Location – Plan View.
- Drive Rod Penetration Resistance Sounding Location – Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  - X = Number of Blows for First 6 inches.
  - Y = Number of Blows for Second 6 inches.
- Drive Rod Penetration Resistance Sounding Log – Profile
  - Casing
  - Resistance "R" < 10,000 lbs.
  - Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Shale
- Shale
- Boulders or Cobbles
- Weathered Sandstone
- Sandstone
- Leached Dolomite

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings – Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140-pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description – based on laboratory tests and the Casagrande AC classification system – and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
	12"	3" – 2.0mm (No. 10 sieve)	2.0mm – 0.42mm (No. 40 sieve)	0.42mm – 0.074mm (No. 200 sieve)	0.074mm – 0.005mm	

LOG OF BORING

Date Started 5-26-69 · Date Completed 5-27-69 · Boring No. B-12
Sampler Type SS · Dia. 1 3/8" · Casing Length 20' · Dia. 3 1/2"
Station & Offset 1149+75, 61' Lt. (Forward Pier)
Water Elev. ______ · Surface Elev. 824.2'

Elev.	Depth	Std. Pen. (N)	Rec. Ft.	Loss Ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
824.2	0														
819.2	6	7/13			Brown Sandy Silt	1	5	9	18	32	36	23	6	14	A-4a
816.7	8	9/17			Gray Gravelly Sandy Silt	2	18	9	16	29	28	21	5	13	A-4a
814.2	10	5/7			Gray Sandy Silt	3	6	12	18	31	33	21	5	12	A-4a
811.7	14	6/14			Gray Sandy Silt	4	12	12	17	30	29	NP	NP	10	A-4a
[illegible]	16	20/31			Gray Gravelly Sandy Silt	5	21	19	18	30	12	NP	NP	12	A-4a
[illegible]	18	7/28			Gray Gravelly Sandy Silt	6	35	9	14	36	26	20	3	13	A-4a
[illegible]	20	13/21			Gray Sandy Gravelly Silt	7	28	11	14	24	23	-	-	11	-
[illegible]	24	15/35			Gray Sandy Silt	8	11	11	16	33	29	22	6	9	A-4a
[illegible]	26	25/25			Gray Sandy Silt	9	10	21	19	25	25	21	4	11	A-4a
[illegible]	30	20/36			Gray Sandy Silt	10	7	13	17	35	28	21	5	10	A-4a
[illegible]	36	14/40			Gray Gravelly Sandy Silt	11	20	12	20	26	22	21	5	12	A-4a
[illegible]	40				TOP OF ROCK										
	44		3.9	1.1	Shale, black, medium-firm to firm, carbonaceous, argillaceous, pyritiferous, thin-bedded, jointed, poorly fissile, broken. Core Loss 11%.										
[illegible]	50		5.0	0.0	BOTTOM OF BORING										

*Refusal

LOG OF BORING

Date Started 5-27-69 · Date Completed 5-29-69 · Boring No. B-4
Sampler Type SS · Dia. 1 3/8" · Casing Length 30' · Dia. 3 1/2"
Station & Offset 1146+97, 26' Rt. (Rear Pier)
Water Elev. ______ · Surface Elev. 824.5'

Elev.	Depth	Std. Pen. (N)	Rec. Ft.	Loss Ft.	Description	Sample No.	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class.
824.5	0														
819.5	6	19/25			Brown Sandy Silt	1	13	11	13	35	28	21	4	13	A-4a
817.0	8	8/18			Brown Sandy Silt	2	8	9	14	38	31	21	3	13	A-4a
814.5	10	4/9			Gray Sandy Silt	3	10	10	17	34	29	19	5	12	A-4a
812.0	14	7/14			Gray Gravelly Sandy Silt	4	15	10	18	30	24	21	7	11	A-4a
809.5	16	17/24			Gray Sandy Silt	5	11	10	16	31	32	21	6	11	A-4a
807.0	18	18/32			Gray Silty Gravelly Sand	6	34	13	26	12	15	NP	NP	10	A-2-4
804.5	20	9/29			Gray Silty Gravelly Sand	7	32	19	21	13	15	-	-	10	-
802.0	24	9/34			Gray Silty Gravelly Sand	8	26	25	14	21	14	-	-	10	-
799.5	26	15/38			Gray Silty Gravelly Sand	9	40	45	5	-10-	-	NP	NP	14	A-1-b
794.5	30	50/*			Gray Sandy Silt	10	13	11	18	31	27	22	7	10	A-4a
789.5	36	50/*			Gray Gravelly Sandy Silt	11	18	11	20	25	26	19	5	10	A-4a
784.5	40	50/*			No Sample Recovered – Cobbles (Driller's Description)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
779.5	46	18/31			Gray Silty Sandy Gravel with Cobbles	12	48	17	13	11	11	NP	NP	24	A-1-b
[illegible]	50	77/*			Gray Silty Sandy Gravel with Cobbles	13	62	13	8	10	7	-	-	11	-

*Refusal

BOTTOM OF BORING

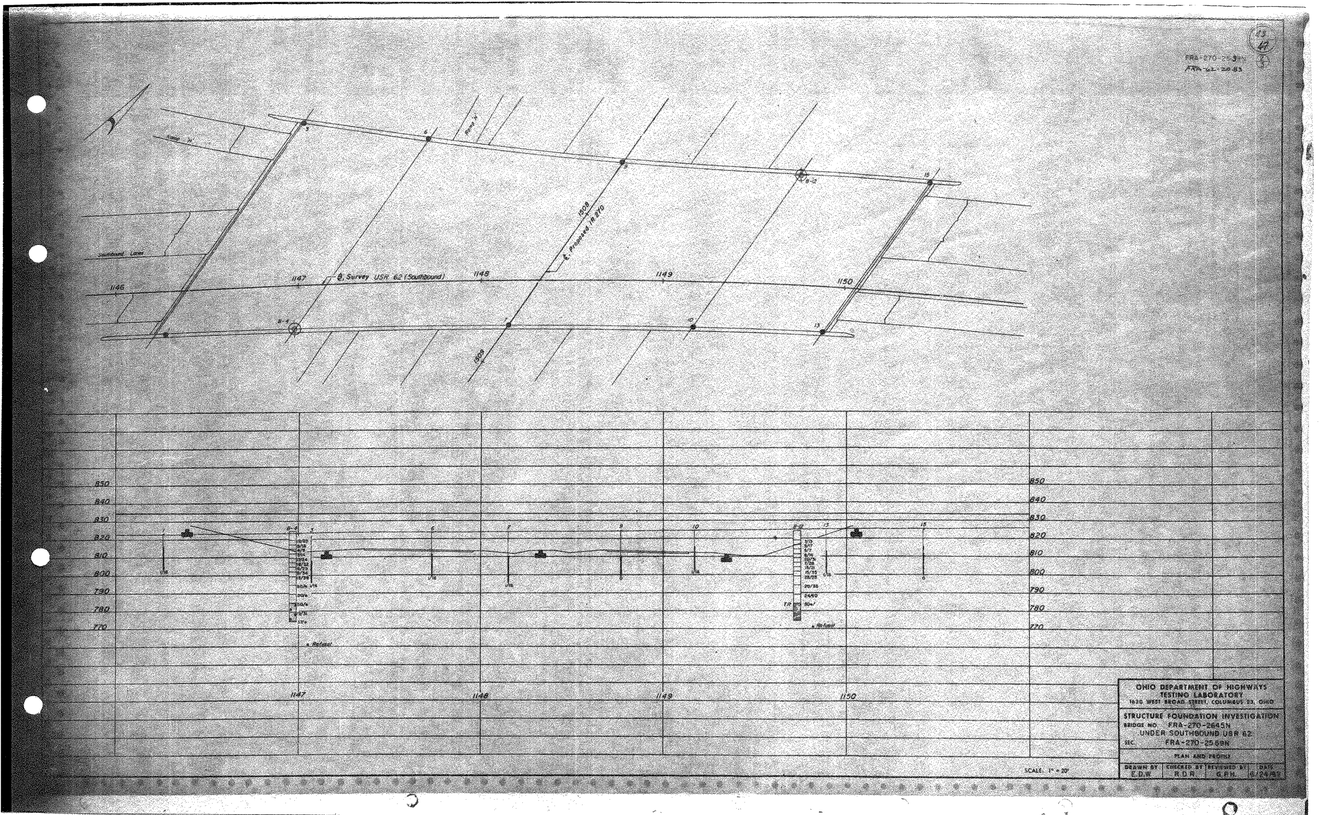
NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 43223

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2645N
UNDER SOUTHBOUND USR 62
SEC. FRA-270-25.39N

CHECKED BY	REVIEWED BY	DATE
R.D.R.	G.P.H.	6/24/69

42/47



FRA-270-2645N
FRA-62-20.83
Survey USR 62 (Southbound)
1146
1147
1148
1149
1150
1508
1509
Proposed IR 870
850
840
830
820
810
800
790
780
770
Refusal
SCALE: 1" = 20'
OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1630 WEST BROAD STREET, COLUMBUS 23, OHIO
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2645N
UNDER SOUTHBOUND USR 62
SEC. FRA-270-2569N
PLAN AND PROFILE
DRAWN BY E.D.W.
CHECKED BY R.D.R.
REVIEWED BY G.P.H.
DATE 6/24/83

Test Location No. 1
Station & Offset 1146+26.28 RT
REAR ABUTMENT
Surface Elev. 837.7 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 3
Station & Offset 1147+07.89 LT
REAR ABUTMENT
Surface Elev. 837.8 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 4
Station & Offset 1147+73.78 LT
REAR PIER
Surface Elev. 833.4 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 5
Station & Offset 1148+15.26 RT
CENTER PIER
Surface Elev. 833.4 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 8
Station & Offset 1148+77.64 LT
CENTER PIER
Surface Elev. 834.2 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 10
Station & Offset 1149+17.25 RT
FORWARD PIER
Surface Elev. 832.9 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 12
Station & Offset 1149+89.25 RT
FORWARD ABUTMENT
Surface Elev. 835.0 Water Elev.
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

Test Location No. 14
Station & Offset 1150+42.61 LT
FORWARD ABUTMENT
Surface Elev. 834.6 Water Elev.
FRA-62-29.83
FRA-270-25.39N
Piling
Hammer
Formula
Reference
Rod Condition GOOD
TEST ROD
Capacity "R" in Thousands of Pounds

ONIO STATE HIGHWAY
TESTING LABORATORY
1600 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2645N
UNDER SOUTHBOUND USR 62
SEC. FRA-270-2559N

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	R.D.R.	G.P.H.	6/24/69

FRANKLIN COUNTY
FRA-270-25.59 N
FRA-62-20.83

GEOLOGY OF THE SITE

THE STRUCTURE SITE IS LOCATED IN THE RELATIVELY FLAT PORTION OF THE GLACIATED MID-SUSQUEHANNA VALLEY PLAIN, IN AN AREA WHERE MODERATELY DEEP TO DEEP GLACIAL DRIFT AND ALLUVIAL OVERLIES SHALE BEDROCK, OF DEVONIAN AGE.

EXPLORATION

THE EXPLORATION CONSISTED OF TWO DRIVE SAMPLE BORINGS, MADE ON MAY 1 AND 2, 1969, AND THREE DRIVE ROD PENETRATION TESTS, MADE ON MAY 27, 1969.

INVESTIGATIONAL FINDINGS

THE BORINGS ENCOUNTERED UNSTRATIFIED DEPOSITS OF STIFF CLAYS AND SILTS TO VERY DENSE SANDY GRAVELLY SILTS WITH SOME INTERVALS OF GRAVELS AND COBBLES. THE BORINGS WERE TERMINATED AT 41 AND 51-FOOT DEPTHS, ELEVATIONS 779 AND 769 FEET, AFTER PENETRATING IN EXCESS OF 25 FEET OF MATERIAL REQUIRING IN EXCESS OF 30 BLOWS PER FOOT IN THE STANDARD PENETRATION TEST.

ROD SOUNDINGS ENCOUNTERED GRADUAL INCREASE IN PENETRATION RESISTANCE WITH INCREASE IN DEPTH, AND WERE TERMINATED UPON ENCOUNTER WITH HARD REFUSAL AND REFUSAL TO PENETRATION AT 16 TO 28-FOOT DEPTHS, ELEVATIONS 804 TO 798 FEET, CONSIDERED TO BE IN VERY DENSE MATERIALS, AS REVEALED BY THE BORINGS.

NO FREE WATER WAS ENCOUNTERED IN ANY OF THE DRIVE SOUNDING HOLES.

NO TEST PENETRATED TO BEDROCK SURFACE.

LEGEND

- Auger Boring Location - Plan View.
- Press and / or Drive Sample and / or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y Figures Beside the Boring Log in Profile Indicate the Number of Blows for Standard Penetration Test.
  X = Number of Blows for First 6 Inches.
  Y = Number of Blows for Second 6 Inches.
- Drive Rod Penetration Resistance Sounding Log - Profile
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z Indicates Final Measurement of Penetration, in Inches.
- W Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Siltstone, Mudstone, or Claystone
- Siltstone, Mudstone, or Claystone
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with pile performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and / or 5-foot depth intervals, driven by means of a 140-pound drop-hammer with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
12"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)	0.074mm (No. 200 sieve)	0.005mm	0.001mm

LOG OF BORING

Date Started 5-1-69 — Sampler Type SS — Dia 1 3/8" — Water Elev —
Date Completed 5-2-69 — Casing Length — Dia —
Boring No B-3 — Station & Offset 1143+56, 21' Rt. (Rear Pier) — Surface Elev 820.0'

Elev	Depth	Spl Per (in)	Rec ft	Loss ft	Description	Sample No	% Agg	% C	% F	% Sil	% Clay	L.L.	P.I.	W.C.	SHTL Class.
820.0	0														
	2														
	4														
815.0	6	3/4			Gray Sandy Clay	1	0	5	15	39	41	35	15	27	A-6a
	8														
810.0	10	50"/ (8.2')			Gray Silt and Clay	2	–	–	–	–	–	–	–	24	Visual
	12														
805.0	14	24/25			Gray Sandy Silt	3	0	12	19	39	30	21	7	12	A-4a
802.5	16	40/*			Gray Sandy Silt	4	0	35	21	32	32	25	10	11	A-4a
800.0	18	40/*			Gray Silty Sandy Gravel	5	54	33	7	9	7	NP	NP	14	A-1-b
797.5	20	50/*			Gray Sandy Gravel	6	77	11	4	3	5	–	–	16	–
795.0	22	40/*			Gray Silty Sandy Gravel	7	54	17	9	12	8	–	–	10	–
	24														
790.0	26	40/*			Gray Sandy Silt with Cobbles	8	–	–	–	–	–	–	–	32	Visual
	28														
785.8	30	50" (8.5')			Gray Sandy Silt	9	–	–	–	–	–	–	–	19	Visual
	32														
780.0	34	11/23			Gray Silty Clay	10	0	2	2	21	75	37	17	24	A-6b
	36														
775.0	38	21/50			Gray Silty Clay	11	0	1	1	20	78	41	19	23	A-7-6
	40														
770.0	42	32/50			Gray Silty Clay	12	0	4	3	26	67	42	17	18	A-7-6
769.0					BOTTOM OF BORING										

*Refusal

LOG OF BORING

Date Started 5-2-69 — Sampler Type SS — Dia 1 3/8" — Water Elev —
Date Completed 5-2-69 — Casing Length 40' — Dia 3 1/2" —
Boring No B-2 — Station & Offset 1145+69, 55' Lt. (Forward Pier) — Surface Elev 819.8'

Elev	Depth	Spl Per (in)	Rec ft	Loss ft	Description	Sample No	% Agg	% C	% F	% Sil	% Clay	L.L.	P.I.	W.C.	SHTL Class.
819.8	0														
	2														
	4														
814.8	6	7/16			Brown Sandy Silt	1	4	8	19	36	33	23	7	12	A-4a
	8														
809.8	10	10/15			Gray Sandy Silt	2	10	10	15	37	28	23	5	14	A-4a
	12														
804.8	14	20/30			Gray Sandy Silt	3	11	10	17	33	31	21	6	10	A-4a
802.3	16	50" (0.7')			Gray Gravelly Sandy Silt with Cobbles	4	24	12	25	18	31	19	4	10	A-4a
799.8	18	19/25			Gray Sandy Silt	5	12	5	13	55	15	NP	NP	14	A-4b
	20														
794.8	22	26/31			Gray Sandy Silt	6	10	16	8	34	34	22	8	11	A-4a
	24														
789.8	26	26/30			Gray Silty Gravelly Sand	7	30	9	28	22	11	NP	NP	18	A-2-4
	28														
784.8	30	22/39			Gray Gravelly Sandy Silt	8	18	8	17	41	16	NP	NP	13	A-4a
	32														
779.8	34	64" (8.8')			Gray Gravelly Sandy Silt BOTTOM OF BORING	9	20	8	21	18	33	NP	NP	9	A-4a
779.2															

*Refusal

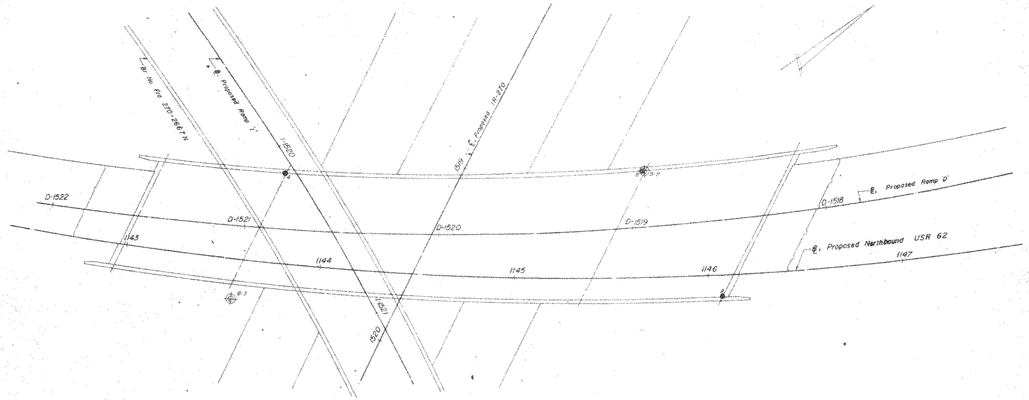
NOTE: Information shown by this subsurface investigation was obtained and is for use in establishing design controls for this project. The State of Ohio does not guarantee the accuracy of this data and it is not to be considered as a part of the plans governing construction of the project.

OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS, OHIO 4321

STRUCTURE FOUNDATION INVESTIGATI
BRIDGE NO. FRA-270-2666N
UNDER NORTHBOUND USR 62 & RAMP
SEC. FRA-270-25.59N

CHECKED BY	REVIEWED BY	DAT
R.D.R.	G.P.H.	6/6/6

FRA-270-2559N
FRA-GA-20-83



OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2666N
UNDER NORTHBOUND USR 62 & RAMP 'D'
SEC. FRA-270-2559N

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
E.D.W.	R.D.R.	G.P.H.	5/6/69

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. _____
Station & Offset _____
Surface Elev. _____ Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. 3
Station & Offset 133+70 61'Lt
Surface Elev. 811.2 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. 2
Station & Offset 133+67 55'Lt
FORWARD PIER
Surface Elev. 813.2 Water Elev. _____
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

Test Location No. 1
Station & Offset 133+67 [illegible]
FORWARD ABUTMENT
Surface Elev. 813.2 Water Elev. _____
FRA-CC-20.83
FRA-270-26.59N
Piling _____
Hammer _____
Formula _____
Reference _____
Rod Condition _____

Capacity "R" in Thousands of Pounds

47
47

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. FRA-270-2656R
UNDER NORTHBOUND USR 62 & RAMP D
SEC. FRA-270-26.59N

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	R.D.R.	G.P.H.	5/6/69