FED. R/W DIVISION	STATE	PROJECT
2	OHIO	I-270-4(4)99

FRANKLIN COUNTY
FRA-270-8.04S

I-270-4(4)99

Run 5th(42)

I-12

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

FRA-270-8.04S
FRANKLIN COUNTY
JACKSON TOWNSHIP

CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Center Line
Corporation Line
R/W Fence (Proposed)
Fence Line (Existing)
Guard Rail (Existing)
Guard Rail (Proposed)
Power Poles
Telephone Poles
Trees or Stumps (Existing)
Limited Access Only — L A
Right of Way Only — R/W
Existing Right of Way

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Sheets 242-246 Deleted from plan.

LINE DATA

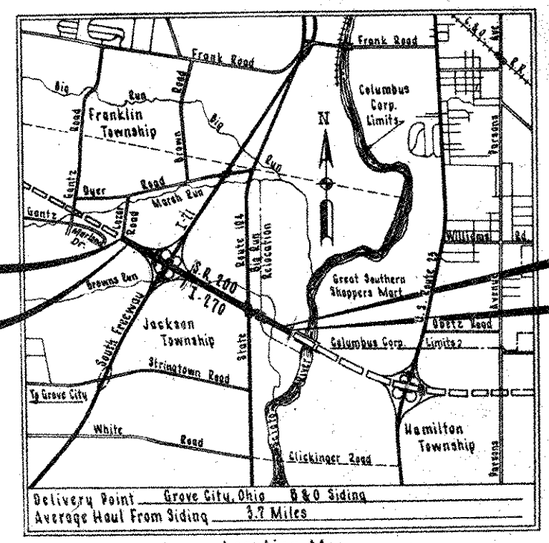
Begin Project	Sta. 373+00
End Project	Sta. 668+00
Net Length of Project	7900 Lin. Ft. = 1.496 Miles
Add for Approaches	12,983.22 Lin. Ft. (See Sheet No 14)
Total Length of Work	20,883.22 Lin. Ft. = 3.879 Miles

Begin Work ℄ O.B. Sta. 371+32.00

Begin Project Sta. 373+00

End Project Sta. 668+00

End Work Sta. 669+50



Location Map

Scale of Miles

Portion to be improved under separate contract
Portion to be improved under this contract
State Roads
Other Roads

Scale

Plan	1" = 50'
Profile: Horizontal	1" = 50'
Profile: Vertical	1" = 5'
Cross-Sections	1" = 10'

Sheets 15, 313, 315, 317, 318, 320, 321, 322, 323, 324, 325, 328, 329, 330 & 331 Revised 11-7-62.

Sheets 251, 260, 264, 276, 278, 286, 288, & 294 Revised 12-18-62.

Sheets 259, 261, 262, & 263 Revised 2-4-63.

Sheets 258 & 274 Revised 3-19-63

Sheet 275 Revised 5-29-63.

"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 Highways in accordance with provisions of Section 5511.02 of the Revised Code of Ohio".

The Standard Specifications of the State of Ohio Department of Highways including changes and supplemental specifications listed in the proposal shall govern this improvement.

The Right of Way for this 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 the plans and estimates.

Approved E. L. Sheley
Date 8-7-62 Division Deputy Director

Approved Guy E. Keeper
Date 8-15-62 Deputy Director of Planning and Programming

Approved D. Warman
Date 8-14-62 Engineer of Bridges

Approved W. Brown
Date 8-15-62 Engineer of Location and Design

Approved W. J. Ann
Date 8-15-62 Deputy Director of Right of Way

Approved C. W. M. Caughey
Date 8-15-62 Deputy Director of Design and Construction

Approved G. A. Bourey
Date 8-15-62 First Assistant Director

Approved C. S. Preston
Date 8-15-62 Director of Highways

Supplemental Specifications

Number	Date
S 307	5-25-60
S 207.19	1-25-61
I-125	Rev. 9-26-61
I-127	Rev. 1-15-62
I-128	7-01-59
I-129	Rev. 4-5-61
L-120	Rev. 1-2-62
M-107.18	Rev. 4-3-61
M-109.28	Rev. 8-12-59
S-112	8-21-61
18	Rev. 6-18-59
CE-101.04	5-22-56
I-212	Rev. 6-23-61

Standard Drawings

Number	Date	Number	Date	Number	Date	Number	Date	Number	Date	Number	Date	Number	Date
S-T-70-71	11-15-60	I-1	11-15-60	I-8 I. N° 1	4-23-59	L-1	4-1-50	RB-1-55	2-1-59	I-14G	1-22-62		
S-T-71R	3-1-63	I-8 C.B. 1-1-A & B	3-1-59	I-8 MH N° 1	1-26-59	L-3	4-1-50	AR-1-57	4-1-62	HW-D	11-15-60		
DR-1	1-3-55	I-8 C.B. 1-3 & 1-4	1-26-59	I-8 MH N° 1-A	10-1-61	L-3-A	4-1-50	CSB-1-56 (Sheets 1, 2 & 3)	2-1-59	G-7.07	8-1-56		
F-2	10-1-56	I-8 C.B. 1-5 & 1-6	1-26-59	I-8 MH N° 3	1-26-59	L.J. N°1	4-1-50	23-2-54 (Sheets 1 & 2)	2-1-59	I-12	7-1-54		
F-3	8-1-59	I-8 C.B. N°4	7-1-56	I-15 N° 2-A	6-17-60	RI-1	7-15-55	AS-1-56	7-5-60	I-15 No.1	11-15-60		
HW-A & B	7-15-57	I-8 C.B. N°5	7-1-58	I-15 N° 2	6-1-61	T-35	1-1-59	L&C-15 (Sheets 1 & 2)	9-18-61				
HW-C	7-15-57	I-8 C.B. N°6	1-26-59	I-15 N° 6	1-1-53	T-J	8-12-60	SP-53	6-30-61				
HW-E	11-15-60	I-8 C.B. N°8	3-15-60	I-21-23	1-1-56	FAGI-1	12-27-61	FAGI-2	12-27-61				

Plans Prepared By:
De Leuw, Cather & Brill Consulting Engineers
Columbus, Ohio, Buffalo, N.Y., New York, N.Y.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

Approv ____ Date ____
gineer

Re

No.	FRANKLIN COUNTY FRA-200-8.04
	Date of Letting 1962
	Contract N°

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-4(4)99	

FRANKLIN COUNTY FRA-200-8.04

Note: Marker will be furnished and erected on the right by the State of Ohio before acceptance of this project.

Begin Project Sta. 373+00
I-270-4(4)99
FRA-200-8.04
Code 0010 ≠

Begin Work Sta. 371+92.00

Note: Typical Section adjacent to beginning of project is identical to Normal Section shown on sheet N°5 for Sta. 373+00.00 -Typical Section "A".

End Work Sta. 518+60.00

Temporary Pavement at I-71 Sta. 496+00

Code 0010 ≠ Code 7221

Ramp "A"
Ramp "B"
Ramp "C"
Ramp "E"
Ramp "F"
Ramp "G"
Ramp "H"

Existing I-71

Dyer Road
Lazar Road
Dyer Road
Canter Road
Future Construction
0°-30' Curve
Existing Marlane Drive
℄ Marlane Drive
Service Road
P.T. Sta. 359+88.17
End Work Sta. 41+75.22
Begin Work Sta. 0+90
Canter Road
David Drive Lane
Access Road to WMNI Towers
WMNI Towers
FRA-200-8806
FRA-200-8819 & 8822
FRA-200-NB & SB
Ramp "A" Under I-71
WMNI Radio Antennae
WMNI Radio Transmitter
℄ S.R. 200
Throckmorton Road
Marlane Drive
To Stringtown Road
Temporary Pavement at I-71 Sta. 466+00
Begin Work Sta. 455+50.00

End Work Sta. 66+75
State Route 104
Scioto Big Run
Brown's Run
FRA-200-8806 Lt. & Rt.
FRA-200-8806
Scioto Big Run Relocation
Begin Work Sta. 37+75

Note: Marker will be furnished and erected on the left by the State of Ohio before acceptance of this project.

End Project Sta. 446+00
FRA-200-9.46
I-270-4(4)99
FRA-200-8.04
Code 7221
FRA-200-8852 Lt. & Rt.
Scioto River
End Work Sta. 449+50

Note: Typical Section adjacent to end of project is identical to Normal Section shown on sheet N°5 for Sta. 448+00-Typical Section "A".

* Code 0010 applies to grading sections only within these limits; Paved areas are carried as code 7221 throughout entire limits of the project.

Legend
Paved ———
Graded - - - -
Future · · · ·

~DELINEATORS~

Delineators have been estimated on this project at 200 foot intervals along the right of each directional pavement in a line 12'-6" from the pavement edge. Specific locations for delineators shall be determined by the Engineer at the time of construction.

Legend
Delineators Type A-1 •

Station		I-127 Delineators	
From	To	Post Mounted	Bracket Mounted
414+00	426+00	12	
426+00	-		2
428+00	446+00	20	
Totals		32	2

Note: For delineator details, see Sheet No. 219 A.

Scale: 1" = 400'

Schematic Layout Plan

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

CURVE DATA					SPIRAL DATA						
RAMP	CURVE	Δ	D	R	L	θs or θs	Ls	P or Ps	K	Xc	Yc	Δ1	Δ1
A	1	7° 26' 04"	1° 00' 00"	5729.58'	740.10'								
	2	6° 00' 00"	2° 00' 00"	2864.79'	300.00'								
	3	18° 56' 51"	3° 00' 00"	1909.86'	632.70'								
	4					3° 46' 00"	150.00'	1.36'	124.98'	249.80'	5.35'		
	5					9° 22' 30"	150.00'	3.41'	124.89'	249.35'	16.61'		
	6	140° 29' 01"	7° 30' 00"	765.94'	1873.12'								
	7					9° 22' 30"	150.00'	3.41'	124.89'	249.35'	16.61'		
	8					4° 00' 00"	200.00'	1.16'	99.98'	199.90'	4.65'		
	9	21° 41' 26"	4° 00' 00"	1432.39'	542.26'								
	10					4° 00' 00"	200.00'	1.16'	99.98'	199.90'	4.65'		
B	11					14° 54' 40"	200.00'	7.10'	99.37'	196.25'	28.60'		
	12	220° 31' 56"	14° 54' 40"	230.00'	885.28'								
	13					14° 54' 40"	200.00'	7.10'	99.37'	196.25'	28.60'		
C	14	17° 08' 07"	3° 00' 00"	1909.86'	571.14'								
	15	55° 01' 56"	4° 30' 00"	1273.24'	734.05'								
	16					4° 30' 00"	200.00'	1.31'	99.98'	199.89'	5.23'		
	17	0° 46' 42"	1° 00' 00"	5729.58'	81.17'								
D	18	9° 00' 31"	1° 30' 00"	3819.72'	600.57'								
	19	0° 57' 31"	1° 30' 00"	3819.72'	167.74'								
	20	47° 07' 08"	3° 00' 00"	1909.86'	1570.32'								
	21	24° 37' 13"	3° 30' 00"	1637.14'	596.97'								
	22	12° 50' 21"	3° 00' 00"	1909.86'	428.00'								
	23	9° 00' 00"	1° 30' 00"	3819.72'	600.00'								
E	24	2° 58' 16"	1° 00' 00"	5729.58'	296.99'								
	25	19° 29' 36"	3° 00' 00"	1909.86'	649.76'								
	26	40° 26' 15"	4° 15' 00"	1348.11'	951.94'								
	27	29° 17' 59"	5° 00' 00"	1145.92'	585.80'								
	27-A					6° 15' 00"	200.00'	3.27'	124.95'	249.70'	9.08'		
	28	0° 35' 51"	0° 30' 00"	11,459.16'	119.59'								
F	29					18° 58' 50"	200.00'	8.26'	99.17'	198.06'	33.79'		
	30	210° 57' 51"	28° 38' 52"	200.00'	736.40'								
	31					18° 38' 52"	200.00'	8.26'	99.17'	198.86'	32.79'		
G	32					18° 38' 52"	200.00'	8.26'	99.17'	198.86'	32.79'		
	33	216° 16' 41"	28° 38' 52"	200.00'	768.55'								
	34					18° 38' 52"	200.00'	8.26'	99.17'	198.86'	32.79'		
H	35	9° 34' 55"	1° 30' 00"	3819.72'	638.80'								
	36	1° 14' 55"	1° 30' 00"	3819.72'	83.35'								
	37	12° 00' 00"	1° 30' 00"	3819.72'	800.00'								
	38	18° 00' 00"	3° 00' 00"	1909.86'	600.00'								
	39	30° 08' 47"	4° 30' 00"	1273.24'	669.97'								
	40	23° 50' 55"	4° 30' 00"	1273.24'	529.97'								

COORDINATES		
RAMP A		
T.S.Sta. 18+39.29	N 690,971.193	E 1,848,673.410
S.C.Sta. 21+39.29	N 690,789.698	E 1,848,637.480
Int.Sta. 28+68.71	N 690,040.745	E 1,848,147.717
Int.Sta. 37+46.19	N 688,996.086	E 1,848,295.983
C.S.Sta. 40+61.36	N 688,866.564	E 1,848,377.695
S.T.Sta. 43+12.36	N 688,814.017	E 1,848,526.020
T.S.Sta. 47+64.98	N 688,760.606	E 1,848,785.951
S.C.Sta. 49+64.98	N 688,739.949	E 1,848,897.795
RAMP B		
T.S.Sta. 18+68.00	N 689,616.034	E 1,848,646.574
S.C.Sta. 21+00.00	N 689,964.599	E 1,848,503.919
C.S.Sta. 30+85.26	N 690,019.969	E 1,848,950.506
S.T.Sta. 32+85.26	N 689,855.207	E 1,848,836.746
End "B" Sta. 37+06.10	N 689,707.404	E 1,847,995.911
RAMP C		
P.C.C.Sta. 5+71.74	N 690,362.645	E 1,848,362.917
End "C" Sta. 29+67.81	N 691,455.574	E 1,846,776.197
RAMP E		
T.S.Sta. 28+00.00	N 688,716.950	E 1,848,991.606
S.C.Sta. 32+00.00	N 689,050.185	E 1,848,737.054
C.S.Sta. 39+56.40	N 688,668.451	E 1,848,198.663
S.T.Sta. 41+56.40	N 688,557.061	E 1,848,113.742
RAMP G		
T.S.Sta. 30+00.00	N 689,382.300	E 1,848,868.683
S.C.Sta. 32+00.00	N 689,750.842	E 1,848,807.777
C.S.Sta. 38+68.55	N 689,797.539	E 1,848,619.417
S.T.Sta. 41+68.55	N 689,771.896	E 1,848,723.361
RAMP H		
P.C.C.Sta. 37+19.24	N 688,608.486	E 1,849,907.478

STATE ROUTE 200 CURVE DATA & COORDINATES		
Δ = 21° 55' 51"	L = 4386.17'	
D = 0° 30' 00"	T = 2220.26'	
R = 11,459.16'	E = 213.11	
P.C.Sta. 316+92.00	N 692,752.343	E 1843,042.195
P.I.Sta 338+72.26	N 692,207.046	E 1845,194.519
P.T.Sta. 359+88.17	N 690,897.377	E 1846,987.366

I-71 CURVE DATA & COORDINATES		
Δ = 10° 32' 30"	L = 5161.50'	
D = 0° 20' 00"	T = 1585.75'	
R = 17,188.73'	E = 72.99'	
P.C.Sta 446+78.17	N 686,498.269	E 1,846,641.447
P.I.Sta 492+63.90	N 687,906.775	E 1,847,369.857
P.T.Sta 498+40.67	N 688,058.245	E 1,848,349.720

Note:
Shaded area indicates Contract Paving Limits
Contract Grading Limits Shown on Sheet 4
See Sheet No. 18 for Key to Plan Sheets

Begin Work Sta. 371+32
Begin Project Sta. 373+00 S.L.M. 8.04
Struct. No. FRA-200-0806 See Sheet No. 249
Struct. No. FRA-200-0819 See Sheet No. 261
Sta. 485+26.00 ℄ I-71 = Sta. 381+69.09 ℄ S.R. 200
Struct. No. FRA-200-0822 See Sheet No. 261
Struct. No. FRA-200- Ramp "A" under I-71 See Sheet No. 277
Begin Work Sta. 453+50
End Work Sta. 518+80
Temporary Pavement at I-71 Sta. 496+00
Temporary Pavement at I-71 Sta. 466+00
Match Line A-A
Match Line B-B

Geometric Layout & Paving Limits- I-71 Interchange

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4
333

FRANKLIN COUNTY
FRA-200-8.04

CROSS SECTION LAYOUT

Match Line A-A

Struct. No. FRA-200-0806
See Sheet No. 249

Struct. No. FRA-200-0819
See Sheet No. 261

Struct. No. FRA-200-0822
See Sheet No. 261

Cross Sections not a part of this Contract

Sta. 342+00

Ramp "C"

℄ Survey S.R. 200 (196)

Ramp "D"

Ramp "B"

Ramp "F"

Ramp "A"

Ramp "E"

Ramp "H"

Sta. 485+26.00 ℄ I-71
Sta. 361+69.09 ℄ Osterbelt

Begin Work
Sta. 371+32

Begin Project
Sta. 378+00
S.L.M. 8.04

Cross Sections not a part of this Contract

Struct. No. FRA-200
Ramp "A" Under I-71
See Sheet No. 277

Match Line B-B

Begin Work
Sta. 453+50

End Work
Sta. 518+80

Match Line A-A

Match Line B-B

Note:
Shaded area indicates Contract Grading Limits.
Contract Paving Limits Shown on Sheet Nº 3
See Sheet Nº 18 for Key to Plan Sheets.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-4(4) 99	

FRANKLIN COUNTY FRA-100-8.04

5
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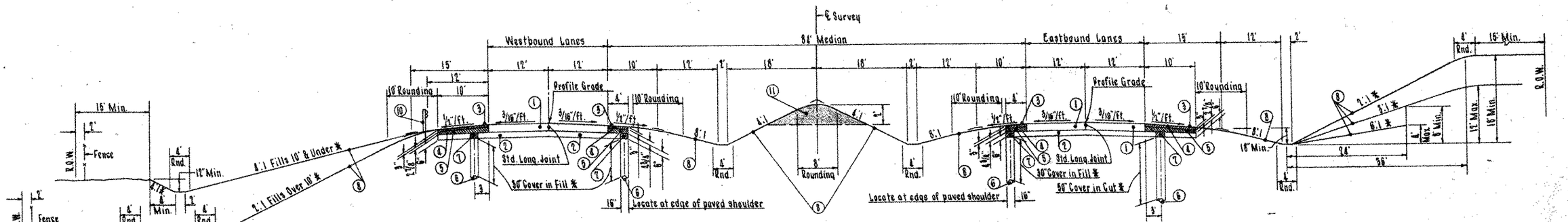
TYPICAL SECTIONS
TYPE T-71

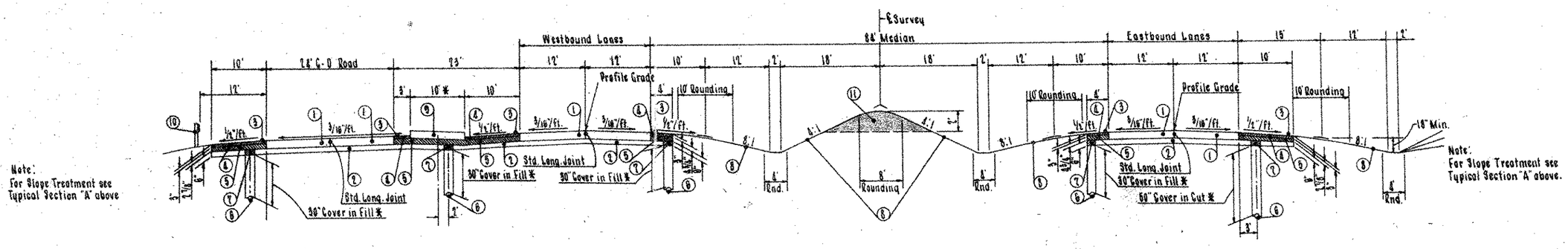


TYPICAL SECTION "A"

Normal Section

Limiting Stations

Sta. 402+33 to Sta. 412+00 — Right Lanes Adjoin Ramp "A"; Left Lanes Adjoin Ramp "E"
Sta. 412+00 to Sta. 412+19.52 Left Lanes Adjoin Ramp "E"
Sta. 412+19.52 to Sta. 425+08.16
Sta. 427+23.44 to Sta. 448+00.00



TYPICAL SECTION "B"

Normal Section

Limiting Stations

Sta. 395+00.00 to Sta. 395+04.84 Ramp "E" adjoins C-D Road
Sta. 395+04.84 to Sta. 400+00.00
Sta. 400+00.00 to Sta. 402+33.00 Ramp "A" adjoins Eastbound Lanes

Legend

1. Item T-71 — 9" Reinforced Portland Cement Concrete Pavement
2. Item I-22 — 6" Subbase, Grading "A" or "B" modified as per General Note (except as noted)
3. Item T-81 — Bituminous Surface Treatment (See Note 4 on this sheet)
4. Item B-21 — 6" Waterproofed Aggregate Base Course (Type "A" T-35 material may be used in construction of this course-See Note in Proposal) (See Note 6 on this sheet)
5. Item B-112 — Porous Base Course
6. Item I-1 — 6" Pipe Underdrain, Class I-3
7. Remove subbase for width of Item I-1 Trench and replace with either Class 3 backfill or with porous base material immediately prior to placing the Item B-112 Porous Base Course. Cost shall be included in the price bid per Lin. Ft. for Item I-1.
8. Item L-9 — Seeding and Protecting, as per plan (See General Note)
9. Item I-21 — Standard Type 2 Portland Cement Concrete Median Pavement (See Note 5 on this sheet)
10. Item I-16 — Guard Rail, Steel Beam Type Deep
11. Item L-3 — Placing Stockpiled Topsoil
12. Item B-21 — 6" Waterproofed Aggregate Base Course (Type "A" T-35 material may be used in construction of this course - See note in proposal (See notes 6 & 7 on this sheet also)

-NOTES-

* Unless otherwise shown on plans
1- Construct Variable Auxiliary Lanes where indicated on the plans.
2- Widths of paved shoulders variable where indicated on the plans.
3- All slopes typical unless otherwise shown on Cross-Sections.
4- Bituminous Surface Treatment shall be a single seal consisting of 0.008 Cu. Yds. of № 6 Aggregate and 0.25 Gal. of Bituminous Material per Sq. Yd. (See Note in Proposal).
5- For details of median pavement see Sheet № 216
6- Thickness shown is "designed" thickness as described in Section B-21.01.
7- All adjoining ramps an speed change lanes shall have a 6" course of B-21 and a varying course of B-112. See Ramp Typicals Sheet 8.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-270-4(4)99	

FRANKLIN COUNTY FRA-270-8.04

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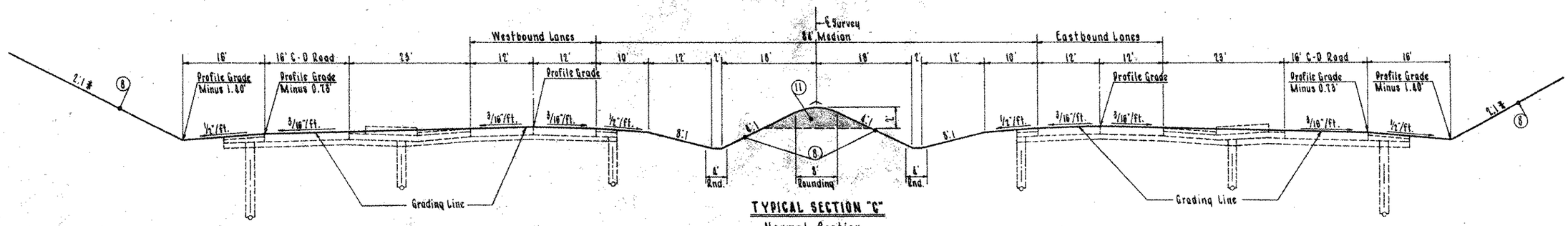
TYPICAL SECTIONS
GRADING ONLY

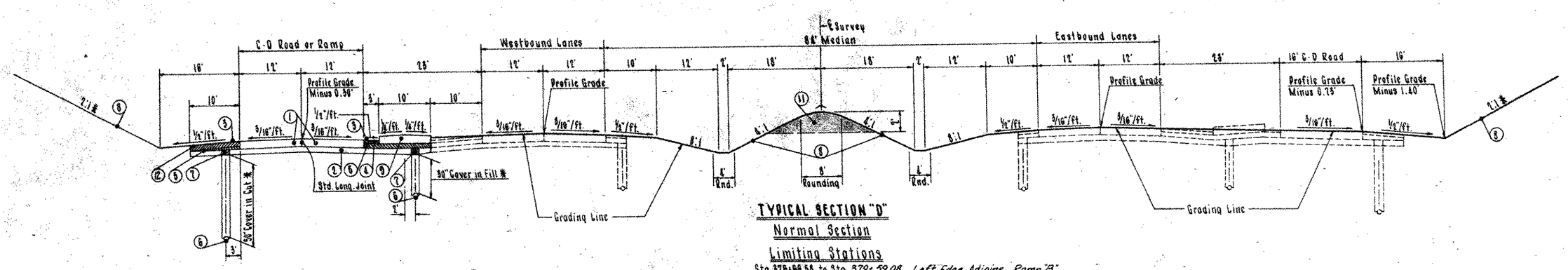


TYPICAL SECTION "C"

Normal Section

Limiting Stations

Sta. 373+00 to Sta. 379+66.56



TYPICAL SECTION "D"

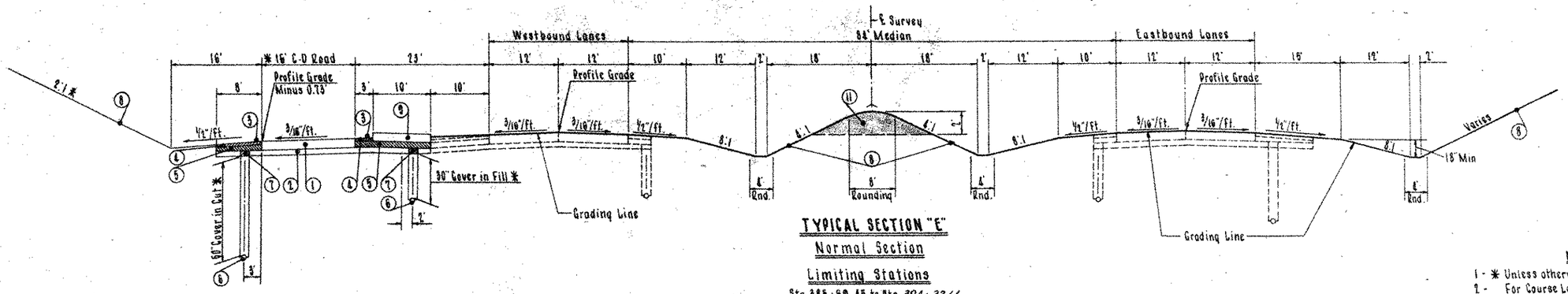
Normal Section

Limiting Stations

Sta. 378+66.56 to Sta. 379+59.08 *Left Edge Adjoins Ramp "B"*

Sta. 379+59.08 to Sta. 383+95.81

Sta. 383+95.81 to Sta. 385+62.45 *Left Edge Adjoins Ramp "F"*



TYPICAL SECTION "E"

Normal Section

Limiting Stations

Sta. 365+69.45 to Sta. 394+32.66

Sta. 394+32.66 to Sta. 395+00.00 *Left Edge Adjoins Ramp "E"*

Notes

1 - * Unless otherwise shown on plans.
2 - For Course Legend See Sheet No. 5
3 - The area within the limits of future pavement and paved shoulders shall not be seeded.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-100-6.04

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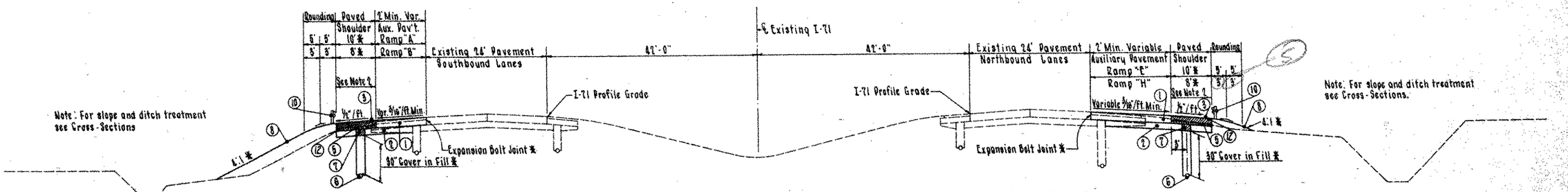
TYPICAL SECTIONS
TYPE T-71



TYPICAL SECTION "F"

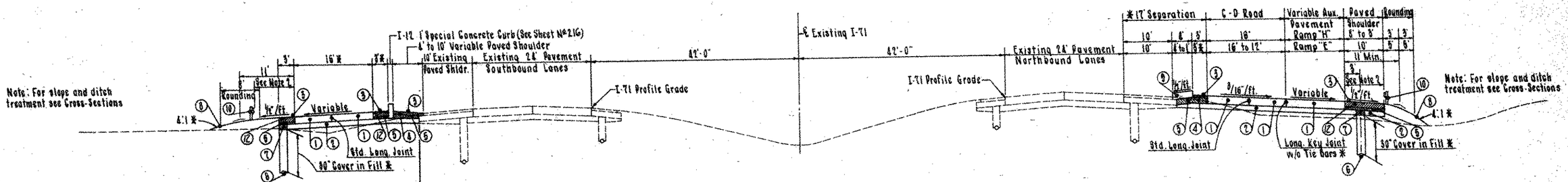
Limiting Stations

Sta. 473+92.00 to Sta. 478+98.06 Ramp "B" Adjoins
Sta. 478+99.25 to Sta. 483+37.47 Ramp "B" Adjoins
Sta. 500+82.84 to Sta. 501+82.84 Ramp "A" Exit Nose
Sta. 501+82.84 to Sta. 509+25.00 Ramp "A" Adjoins

TYPICAL SECTION "G"

Limiting Stations

Sta. 453+50 to Sta. 461+50.00 Ramp "H" Adjoins
Sta. 509+80 to Sta. 518+80.00 Ramp "E" Adjoins



TYPICAL SECTION "H"

Ramp "B" Adjoins Existing South Freeway | Existing South Freeway - to ℄

Limiting Stations

Sta. 487+14.98 to Sta. 488+71.00

Limiting Stations

Sta. 453+50.00 to Sta. 467+51.27 Begin Ramp "D" Grading (See Sheet No 9)
Sta. 488+71.00 to Sta. 500+82.84
Sta. 509+25.00 to Sta. 518+80.00

TYPICAL SECTION "J"

Limiting Stations

Sta. 461+50.80 to Sta. 467+40.87 C-D Road adjoins Ramp "H"
Sta. 467+40.87 to Sta. 468+40.87 Ramp "H" - C-D Exit Nose
Sta. 497+00.00 to Sta. 498+96.84 Ramp "E" C-D Entrance
Sta. 498+96.84 to Sta. 506+80.00 C-D Road adjoins Ramp "E"

-NOTES-

* Unless otherwise shown on plans
1 - For Course Legend see Typical Section Sheet No 5
2 - Face of Guard Rail is located 9' inside berm break point

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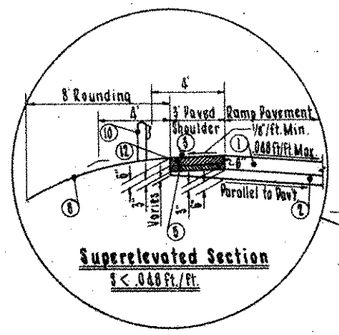
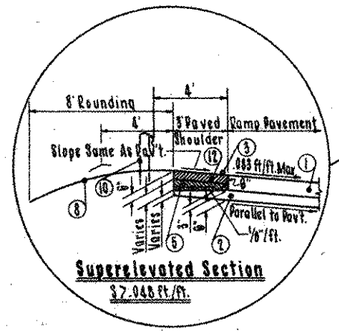
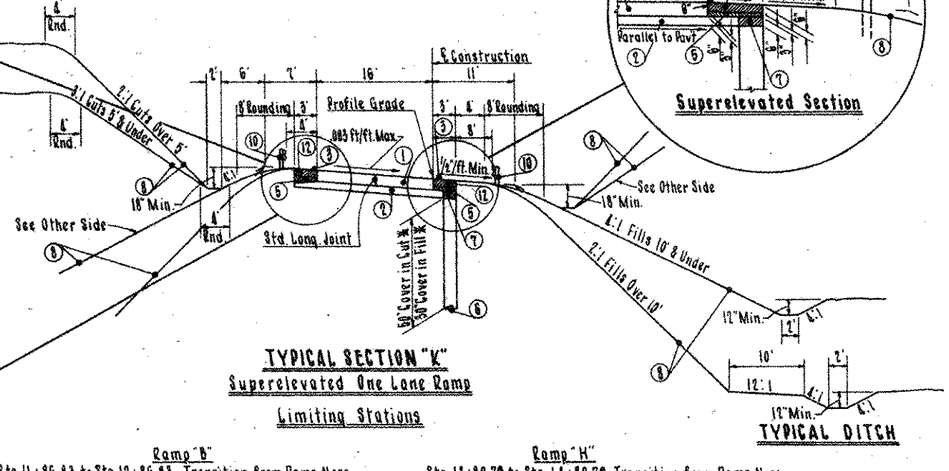
TYPICAL SECTIONS
TYPE T-71

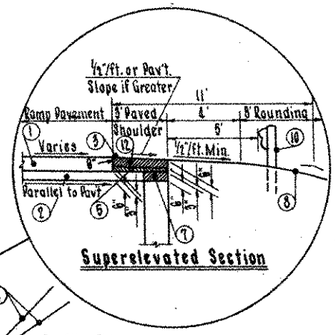




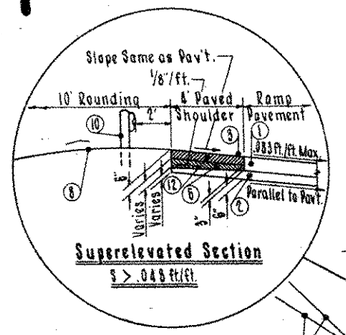


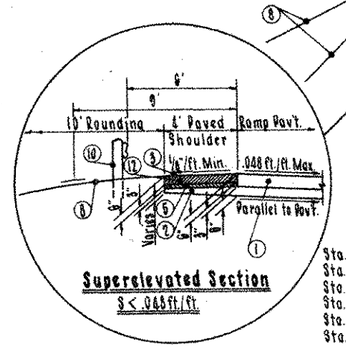
Ramp "B"
Sta. 11+86.83 to Sta. 12+86.83 Transition from Ramp Nose
Sta. 12+86.83 to Sta. 21+90.00
Sta. 21+60.00 to Sta. 21+90.00 I-12 Curb on the Left
Ramp "C"
Sta. 4+65.47 to Sta. 5+71.74 Transition from Ramp Nose

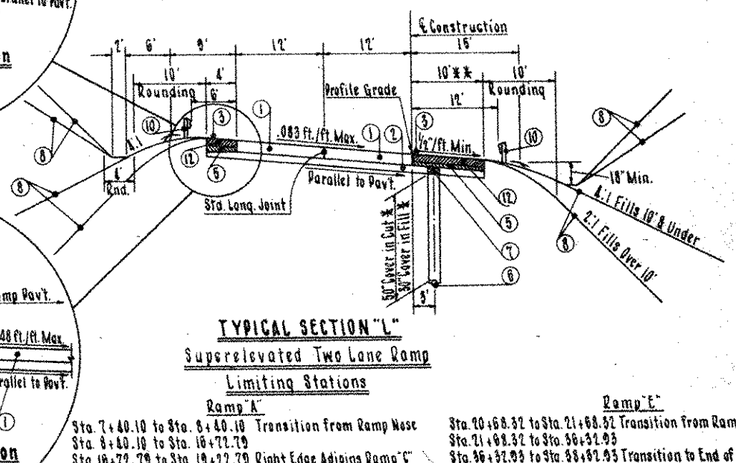
Ramp "H"
Sta. 13+82.79 to Sta. 14+82.79 Transition from Ramp Nose
Sta. 14+82.79 to Sta. 27+08.77
Sta. 27+08.77 to Sta. 29+08.77 Transition to End of Curb
Ramp "F"
Sta. 29+36.40 to Sta. 29+85.24 Transition to End of Curb



TYPICAL DITCH



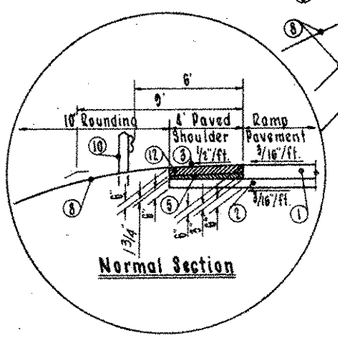


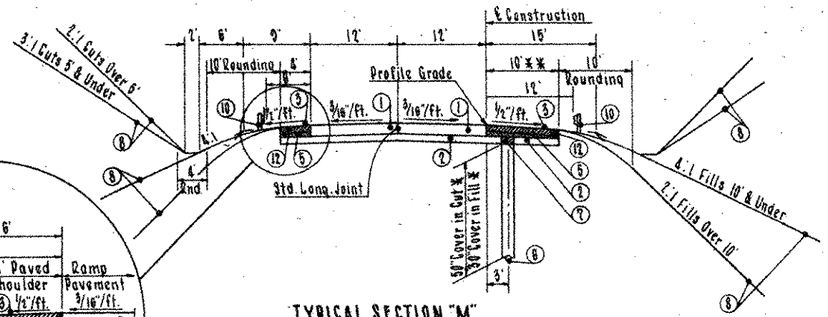


TYPICAL SECTION "L"
Superelevated Two Lane Ramp
Limiting Stations

Ramp "A"
Sta. 7+40.10 to Sta. 8+40.10 Transition from Ramp Nose
Sta. 8+40.10 to Sta. 18+72.79
Sta. 18+72.79 to Sta. 19+22.79 Right Edge Adjoins Ramp "C"
Sta. 47+26.00 to Sta. 54+21.51 Right Edge Adjoins Ramp "H"
Sta. 54+21.51 to Sta. 54+67.24
Sta. 56+67.24 to Sta. 57+67.24 Transition to End of Curb

Ramp "E"
Sta. 20+68.32 to Sta. 21+68.32 Transition from Ramp Nose
Sta. 21+98.32 to Sta. 36+32.93
Sta. 36+32.93 to Sta. 38+82.93 Transition to End of Curb



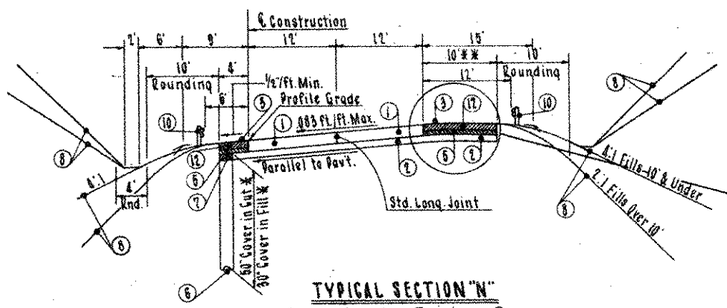


TYPICAL SECTION "M"
Normal Two Lane Ramp
Limiting Stations

Ramp "A"
Sta. 45+75.00 to Sta. 46+09.27
Sta. 46+09.27 to Sta. 47+26.00 Right Edge Adjoins Ramp "H"

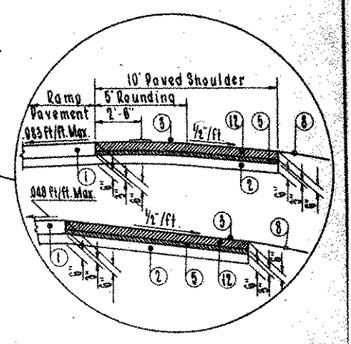
- NOTES -

1- Slope and ditch details for all ramp sections are to be as shown on Typical Section "K"
2- For Course Legend see sheet no. 5
** Shoulder widths typical except where Ramp "A" adjoins Ramp "C" or Ramp "H", and at ends of Ramp "A" bridge over S.R. 200
3- Thickness shown is "designed" thickness as described in Section B-21.01



TYPICAL SECTION "N"
Superelevated Two Lane Ramp
Limiting Stations

Ramp "A"
Sta. 19+22.79 to Sta. 21+36.25 Right Edge Adjoins Ramp "G"
Sta. 21+36.25 to Sta. 23+89.58
Sta. 27+54.84 to Sta. 43+75.00



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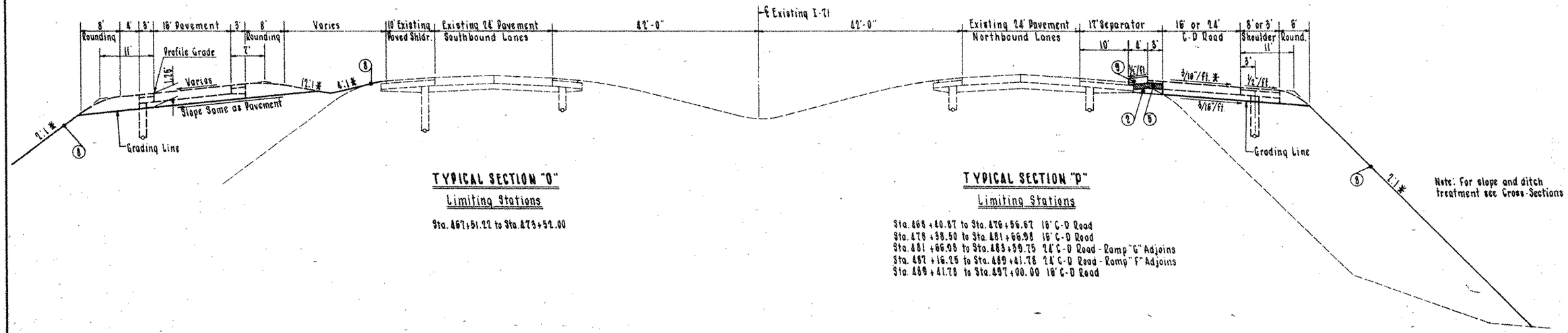
TYPICAL SECTIONS
GRADING ONLY



Note: For slope and ditch treatment see Cross-Sections

TYPICAL SECTION "Q"

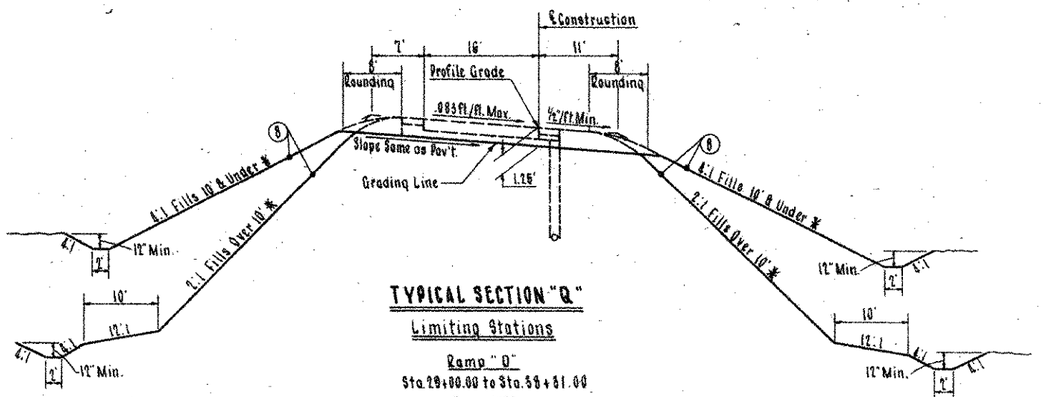
Limiting Stations

Sta. 467+51.22 to Sta. 473+51.00

TYPICAL SECTION "P"

Limiting Stations

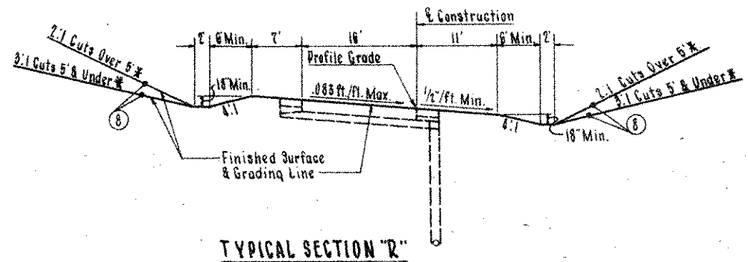
Sta. 468 +40.87 to Sta. 476+56.67 16' C-D Road
Sta. 478 +38.50 to Sta. 481+66.98 16' C-D Road
Sta. 481 +66.98 to Sta. 485+39.75 24' C-D Road - Ramp "G" Adjoins
Sta. 487 +16.25 to Sta. 489+41.78 24' C-D Road - Ramp "F" Adjoins
Sta. 489 +41.78 to Sta. 497+00.00 16' C-D Road



TYPICAL SECTION "Q"

Limiting Stations

Ramp "D"
Sta. 28+00.00 to Sta. 30+31.00
Ramp "G"
Sta. 33+00.00 to Sta. 39+92.30



TYPICAL SECTION "R"

Limiting Stations

Ramp "D"
Sta. 24+00 to Sta. 29+00
Ramp "F"
Sta. 29+00 to Sta. 29+36.40
Ramp "G"
Sta. 32+50 to Sta. 33+00

-NOTES-

* Unless otherwise shown on plans
1- For Course Legend see Typical Section Sheet Nº 5
2- Areas within the limits of future pavement and paved shoulders shall not be seeded.

Typical Grading Sections I-71 and Ramps

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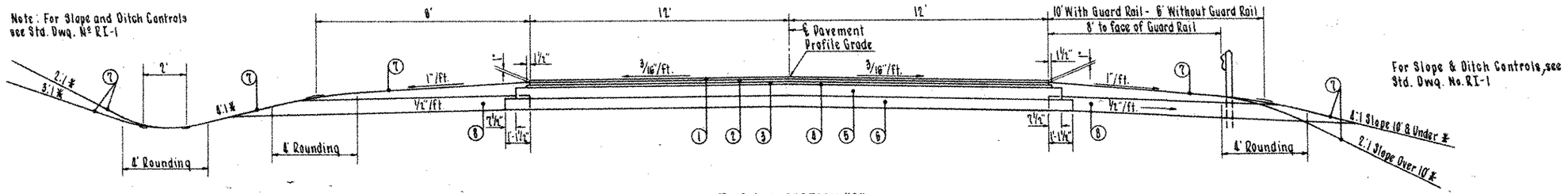
TYPICAL SECTIONS
TYPE T-35 ON B-19



NOTES

A - For Superelevation Treatment on High Side see Std. Dwg. № RI-1, for Superelevation Data see sheets 198 & 199

B - See General Notes, sheet no. 12 for placement of stone underdrain and Std. Dwg. T-35 for detail.

* Unless otherwise shown on plans

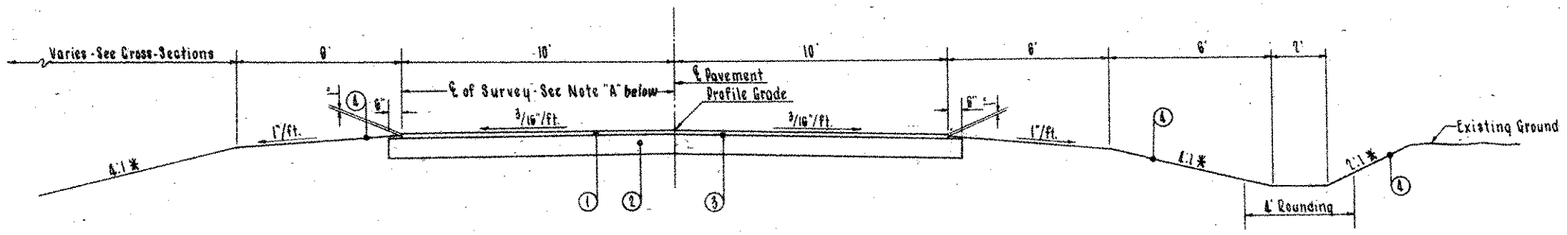
C - Thickness shown is "designed" thickness as described in Section T-35.01 & B-35.01

TYPICAL SECTION "S"
State Route 104
Limiting Stations

Sta. 35+00.00 to Sta. 48+00.47 Normal Crown (Shown)
Sta. 51+99.53 to Sta. 60+25.00 Superelevated (See Note "A" on this sheet)
Sta. 60+25.00 to Sta. 64+00.00 Normal Crown (Shown)

S.R. 104 Legend

① Item T-35 1¼" Asphaltic Concrete Surface Course Type "G" (70-85) See Note "C" on this sheet
② Item B-35 1¼" Asphaltic Concrete Leveling Course (70-85)
③ Item B-35 1½" Asphaltic Concrete Leveling Course (70-85)
④ Item T-30 Bituminous Prime Coat Sec. M-5.1, RT-1 or RT-3 applied at the rate of 0.40 gal. per sq. yd.
⑤ Item B-19 6" Aggregate Base Course
⑥ Item I-22 6" Subbase
⑦ Item L-9 Seeding and Protecting, as per plan
⑧ Item I-9 Stone Underdrain № 2 - See Note "B" on this sheet



- NOTES -

A - Left edge of pavement is ℄ of Survey from Sta. 24+73 to Sta. 38+05 only.

B - Thickness shown is "designed" thickness as described in Section T-35.01.

* Unless otherwise shown on plans.

TYPICAL SECTION "T"
Marlane Drive
Limiting Stations

Sta. 0+90.90 to Sta. 41+75.22

Marlane Drive Legend

① Item T-35 1¼" Asphaltic Concrete Surface Course Type "A" (85-100) See Note "B" on this sheet
② Item B-19 8" Aggregate Base Course
③ Item T-30 Bituminous Prime Coat Sec. M-5.1, RT-1 or RT-3 applied at the rate of 0.40 gal. per sq. yd.
④ Item L-9 Seeding and Protecting, as per plan

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GENERAL NOTES

DESIGN SPEED

The geometrics for this project have been planned for a design speed of seventy (70) miles per hour.

ELEVATION DATUM

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

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.

REPLACEMENT

The contractor shall replace, at his own expense, any item not specifically listed for removal that is damaged or destroyed by his operations.

CENTERLINE REFERENCE MONUMENTS

Monuments shall be constructed of class "C" concrete, cast-in-place in a circular hole eight (8) inches in diameter and forty-four (44) inches in depth. Top of concrete shall be finished at a depth of two (2) inches below ground level and the upper six (6) inch portion of the concrete shall be formed. One-half (1/2) inch steel rods six (6) inches long shall be imbedded in the wet concrete as directed by the engineer to mark the centerline and station.

R/W MONUMENTS, FEDERAL PROJECT MARKERS, AND SECTION MARKERS

Existing R/W Monuments, Bench Marks, Federal Project Markers, and Section Markers that will be removed by construction, shall be protected by the contractor as per Sec. G-7.09 until they can be witnessed, referenced and reset by the engineer.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

The rounded corners shown on standard drawing RI-1, and as modified by the typical sections, apply to all cross sections, even though otherwise shown on these plans.

UTILITY ADJUSTMENT

Any or all work required for Public or Private Utilities will be done by and at the expense of their respective owners, unless otherwise noted on these plans.

FIELD OFFICE

The contractor shall in accordance with Sec. S-0.01 (b) provide, for the exclusive use of the State's Employees, a suitable Field Office having a minimum of five-hundred (500) sq. ft. of floor space. The contractor shall have a telephone installed and maintained in this field office during the construction of this project. The contractor shall also provide and install wiring and outlets suitable for connecting electric lights and office equipment in the field office and provide 110-volt alternating current to the office during the entire period of construction of this project.

SEQUENCE OF CONSTRUCTION OPERATIONS

Underdrains shall be installed and backfilled to subgrade elevation, immediately prior to construction of the subbase, except that, where subsurface conditions are such that improvement of an unstable subgrade can be accomplished through the drying action of deep underdrains, the project engineer may authorize or require the contractor to delay the construction of the subbase as necessary.

The subbase shall then be constructed under the concrete pavement area and extended out to cover the porous backfill for the underdrain.

Pavement shall then be constructed.

After the subbase in the shoulder area is in place and compacted as specified and immediately prior to placing the porous base course, the material located above and within the underdrain trench shall be removed to the depth necessary to expose clean Class 3 backfill. The trench so excavated shall be backfilled with the new Class 3 material, or if the contractor so elects, he may substitute material meeting the requirements of Item B-112, Porous Base Course. If, after testing the subbase material for composition in the shoulder area, it is found that removal of contaminated material from the surface is necessary, such material shall be replaced with material meeting the requirements of Item B-112 Porous Base Course, at the expense of the contractor.

Porous Base Course shall then be constructed and construction of the waterproofed aggregate course shall follow immediately.

CUT-OFF WALLS FOR ITEM I-10 RIPRAP

Cut-off walls for Item I-10 Riprap using 6" reinforced concrete slab, as per plan shall be included for payment in the unit price bid for "Item I-10, Riprap using 6" Reinforced Concrete Slab, as per plan".

BORROW PITS

The contractor's attention is called to the fact that the location of borrow pits to furnish borrow or other materials for this project is subject to the zoning laws of Franklin County, Ohio. Compliance with local laws is provided in Sec. G-7 of the construction and material specifications.

BENCHING OF FOUNDATION SLOPES

Although cross sections on this plan indicate specific widths and depths of proposed benching of the embankment foundations in certain areas, no waiver of the specifications is intended and all other sloped foundation areas shall be benched as set forth in Sec. E-1.04. No additional payment will be made for benching required by the provisions of Sec. E-1.04.

NON-RIGID PAVEMENT REMOVAL

Removal and disposal of existing non-rigid pavement, unless otherwise indicated on these plans, shall be measured and paid for as roadway excavation, Item E-1.

ITEM I-22 SUBBASE, GRADING "A" OR "B", AS PER PLAN

The material furnished for this item shall meet the requirements of grading "A" or "B" of Sec. I-22.02 except that, for either grading, no more than 10% of the material shall pass a No. 200 sieve after all operations of placement and compaction have been completed.

ITEM S.S. CE-101.04

An estimated quantity for this item has been included in the General Summary, for use as directed by the engineer, for proof rolling of all subgrade on routes I-71, I-270 and ramps. The pneumatic tired roller shall be operated at 50 ton gross load for the final proof-rolling.

TRAFFIC MAINTENANCE

Two way traffic shall be maintained at all times on I-71, Marlane Dr., Lazar and Thrailkill Rds. by use of either the existing pavement, the proposed pavement, temporary roadways and/or detours as shown on plans. Construction sequence shall be such that structures are available to traffic as soon as completed. The following estimated quantities have been provided for this purpose:

T-10 = 500 Cu. Yds. — — — M-10 = 10 Tons

Payment for construction, maintenance and subsequent removal wherever required of temporary roadways not separately itemized under Item S-15, except for furnishing and placing of items T-10 and M-10 shall be included in the lump sum price bid for "Maintaining Traffic". (Traffic note continued elsewhere on this sheet).

WIDENING ADJACENT TO TRAFFIC

The open excavation adjacent to traffic shall be adequately maintained and protected with temporary guide markers or barricades at all times. Placement of proposed subbase and reinforced Portland cement concrete pavement or paved shoulders shall follow as closely as possible behind the excavation operations. The length of this excavation which is open at any one time shall be held to a minimum and shall, at all times, be subject to the approval of the engineer.

LIGHTS, SIGNS, AND BARRICADES

The contractor shall, in addition to the general requirements of Sec. G-7.07, on this project perform the following:

(A) Provide, erect, and maintain movable gates on intersecting roads closed to traffic at all points where local traffic movement terminates.

(B) Provide, erect, and maintain lights, signs and barricades at the work limits on all intersecting roads which remain open to traffic.

(C) Provide, erect, and maintain standard 40" x 24" size "Road Closed" signs, sign supports, and lights at the following locations during periods in which the affected roads are closed to through traffic:

1. S.R. 104 just South of Dyer Road
2. S.R. 104 just North of Stringtown Road

Lights, barricades and danger and warning signs shall be provided at locations shown above in accordance with Sec. G-7.07. Barricades and gates shall be as detailed on Std. Construction Dwg. No. G-7.07. Sign supports and lights for "Road Closed" signs shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices." Payment for providing, erecting, maintaining, and removing barricades, gates, lights, signs, and sign supports shall be included in the lump sum price bid for "Maintaining Traffic."

SCARIFICATION OF EXISTING FLEXIBLE PAV'T

Within the limits of construction where the existing flexible pavement will have less than six (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 roadway excavation, Item E-1.

FIELD AND RESIDENCE DRIVES

Location of field and residence drives as shown on the plans may be relocated as directed by the engineer if they are outside of the proposed Limited Access right of way. No extra payment shall be allowed for relocating drives.

EXCAVATIONS FOR ITEMS B-19 AND I-22

Excavation for Item B-19 and Item I-22 material used on side road approaches, mail box turnouts and drives, has been included in earthwork quantities when same is in "cut". Where side road approaches, mail box turnouts, and drives are in "fill," excavation for B-19 and I-22 material shall be made by the contractor at his own expense if he builds the embankment up to finished grade before placing B-19 and I-22 material.

TRAFFIC MAINTENANCE (CONTINUED)
S.R. 104:

When necessitated by construction operations, through traffic on S.R. 104 may be detoured. Once the detour is placed into operation, work shall be prosecuted uninterruptedly to a stage of completion sufficient to permit maintenance of two-way traffic on the pavement & structure. Two-way traffic shall be maintained at all times on the new facility thereafter.

ROAD NAME SIGNS

All road or street name signs that will be disturbed by the construction shall be carefully removed and stored by the contractor for disposal by their respective owners. Payment for this operation shall be included in the unit price bid for roadway excavation, Item E-1.

SEEDING

Seeding quantities for this project are calculated for the soil areas between the right-of-way fence lines, between right-of-way lines in unfenced areas, and within the work limits for areas outside the right-of-way lines covered by work agreements or easements, except on crossroads and service roads. Seeding quantities for crossroads and service roads are calculated for soil areas between lines ten (10) feet outside the work limits, as shown on the plans, or to the right-of-way line if such a line is less than ten (10) feet from the work limits. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the contractor, shall be restored and seeded in accordance with the provisions of Item L-9 by the contractor at his own expense.

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GENERAL NOTES

SEEDING FORMULA

The following seed mixture shall, in lieu of the mixtures listed in Sec. L-9.11, be used throughout the limits of this project:

KY. 31 Fescue - 65% Red Top - 5%
KY. Bluegrass - 30%

COMMERCIAL FERTILIZER

All areas to be seeded under Item L-9 or sodded under Item L-10 shall receive commercial fertilizer (12-12-12) at the rate of twenty (20) pounds per 1,000 square feet.

LOCATION AND SIZE OF PIPES

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

PIPE CUT-OFFS

When bell and spigot pipe is used, any necessary pipe cut-offs shall be made at the spigot end of the length of pipe adjacent to the end length. When tongue and groove pipe is used, the length of pipe next to the end length shall be cut and butt joint formed with a class "E" collar 12" larger than the outside diameter of the pipe and 12" in length. The cost of the joint and collar shall be included in the contract unit price bid for the pertinent pipe item.

REMOVAL OF EXISTING PIPE

The removal of all existing pipe drains, headwalls and catch basins within the limits of proposed excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

PLUGGING PIPE

The upstream ends of all pipe or tile lines intercepted by earth work operations (and, where indicated, the ends of pipe lines to be abandoned in place) shall be effectively blocked and covered. Broken pieces and portions of pipe or tile shall be removed until a whole length is encountered, which shall be blocked with concrete, flat stone, or brick laid in mortar, or a precast clay or concrete stopper. Payment for the above work shall be included in the unit price bid for Item E-1, roadway excavation.

MAINTENANCE OF SEWER FLOWS

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

TEMPORARY CULVERTS

Payment for construction, maintenance, and subsequent removal of temporary extensions of existing or proposed culverts and temporary culverts required for construction of temporary roadways, shall be included in the lump sum price bid for "maintaining traffic"

PRIVATE SEWER TAPS

No private sewer of any type whatsoever may be connected to the drainage system of Interstate Highways on this project. This plan makes no provision for connecting, nor shall the engineer or contractor connect any existing or new private drainage to the highway drainage system when such private drains carry effluent or drainage from leaching bed outlets, cellar drains, or sink drains, or polluted water of any kind. Connections may be made to the existing or new highway drainage system when the water carried to the project drainage system does not come from the category outlined above. Acceptable water includes flow from roof drains, field drains, and enclosed natural drainage sources which would reach the road through natural channels if such water was not conducted artificially. Existing sewer taps which do not carry acceptable water as defined above, shall be plugged at the right-of-way line by means of class "E" concrete. Payment for the above shall be included in the unit price bid for Item E-1, roadway excavation. The location, size, and grade of required replacements to convey acceptable water from existing or new private drains encountered during construction 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 this work.

I-1 6" Pipe Class E-1 100 Lin. Ft.

FIELD 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 intercepted outside the L.A. R/W with 2-2B C.B. and replaced within right-of-limits by Item I-1 Class A-1 pipe. A 3/8" steel plate shall be used in lieu of castings on the 2-2B C.B. Existing collectors and isolated farm tiles which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch. The optimum outlet elevation shall be, if possible, one (1) foot above the flowline elevation of the ditch. Lateral field tiles which cross the roadway shall be intercepted by Item I-1 Class H-2 pipe 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-1	12" Pipe Class A-1	300 Lin. Ft.	I-1	12" Pipe Class H-2	200 Lin. Ft.
	8" " " " " "			8" " " " " "	
	6" " " " " "			6" " " " " "	
	12" Pipe Special Class A-1	1 each			
	8" " " " "				
	6" " " " "				
	12" Pipe Special Class H-2	1 each			
	8" " " " "				
	6" " " " "				
I-8	2-2B C.B.	2 each			

ITEM I-9 STONE UNDERDRAINS, NO. 2

Stone underdrains shall be placed at fifty (50) foot intervals on each side of normal crown sections and at twenty-five (25) foot intervals on the low side only of superelevated sections, on S.R. 104.

DRAINAGE OF BASE MATERIAL

Where the base material is drained by I-9 stone underdrains, the contractor shall finish, seed and mulch the slope so as not to impede drainage of the base material. The actual area of the outcrop of the subbase material or the I-9 underdrains shall not be seeded.

EROSION CONTROL

Items I-10, I-14, and L-10 are provided in these plans for erosion control. A rock of stable nature shall not be removed in order to place any of these items. The engineer shall check and eliminate quantities or adjust locations and quantities for these items where indicated by field conditions during construction.

SPECIAL DITCHES

For special ditch grades, see cross sections.

DUMPED ROCK FILL AS PER PLAN

The size of stone furnished for this item, as provided in Sec. I-10.06, is hereby modified to permit the use of stones as large as may be conveniently placed to the lines and grades called for in the plans and to permit the inclusion (not to exceed 10% by weight) of spalls and stones of less than 1/3 cubic foot volume. Any piece of stone or broken masonry resulting from the removal of existing structures and meeting the above requirements may be used in this item.

UTILITY OWNERSHIP

The Ohio Bell Telephone Company, Columbus, Ohio
The Columbus and Southern Ohio Electric Company, Columbus, Ohio
The Ashland Oil and Refining Company, Ashland, Kentucky

UTILITIES

The contractor shall notify at least five (5) days prior to breaking ground, all public service corporations having wire, poles, pipe, conduits, manholes or other structures that may be affected by this operation, including all structures which are affected and not 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 makes no guarantees as to their accuracy or completeness.

I-15 GUARD RAIL REMOVED AND REBUILT

If, in the opinion of the engineer, the posts removed are sound and undamaged, the provisions of Sec. I-15.08 requiring new posts for this item shall be waived, and this item may be built using posts salvaged from existing guard rail removed.

I-15 GUARD RAIL REMOVED AND STORED, AS PER PLAN

This item shall include storage only of the rail elements and incidental hardware. The posts shall become the property of the contractor and be disposed of by him.

GUARD RAIL FLARES

Where proposed guard rail flares are constructed of rail elements which have not been fabricated exactly to fit the curvature shown on the plans, the two end posts of each flared section shall be encased in a minimum 4-inch thickness of class "E" concrete for the full depth of the post below the ground line. Payment for the encasement shall be included in the unit price bid for the guard rail.

GUARD RAIL CONNECTION TO BRIDGE PARAPET

Details of anchors for connecting deep steel beam guard rail to bridge parapets are shown in the bridge plans. One (1) additional guard rail post shall be provided in the center of each panel of guard rail adjoining the parapet, payment for which shall be included in the unit price bid for Item I-15 guard rail.

GUARD RAIL POST ANCHORS

At locations where pier footings interfere with installation of full length guard rail posts, short posts shall be provided and shall be anchored in accordance with the details in Std. drawing I-15 № 6. Costs of providing and installing necessary anchors shall be included in the unit price bid per lineal foot of guard rail, Item I-15.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS

The contractor shall furnish, erect, maintain, and subsequently remove Federal Aid construction identification signs at each of the following locations:

1. I-71 Sta. 452+00 Right
2. I-71 Sta. 520+00 Left

Sign details shall be as specified on Standard Drawing FACI-1, "Code N-43(2)144", and the signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

CONNECTIONS TO EXISTING PIPE

At places where plan provide for proposed drainage pipe to be connected to existing pipes, 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 pipe item.

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GENERAL NOTES

ITEM L-1, TOPSOIL STOCKPILED

The material to be stockpiled for placement under Item L-3 on this project shall be obtained under Item L-1 from areas within the limits of the proposed right-of-way as tabulated elsewhere on these plans. (No borrow item is anticipated for this purpose)

Provision of this separate L-1 item shall, in no way, be construed as a waiver of the provisions of Sec. E-1.09(a) and sod and incidental topsoil removed elsewhere on this project shall be salvaged and used and described in Item E-1 with payment therefor included in the unit price bid for Roadway Excavation.

ITEM L-3 PLACING STOCKPILED TOPSOIL, AS PER PLAN

On this project, the method of measurement for this item shall be in cubic yards compacted in place in lieu of square yards as specified in Sec. L-3.10. Furnishing and placing of commercial fertilizer in conjunction with this item shall be in accordance with Item L-9 and payment therefor shall be at the unit price bid for Item L-9 Commercial Fertilizer. Except as noted above, all other requirements of this item shall be in accordance with Item L-3

SPECIAL SEEDING PREPARATION AREAS

The reference in the first paragraph of Sec. L-9.11 to preparation of the seed bed in front of residences, etc., shall on this project, be considered to be particularly applicable in the following areas:-

S.R. 104 Sta. 37+25 to Sta. 39+75 Lt.
Sta. 60+65 to Sta. 63+25 Lt.
Sta. 98+00 to Sta. 40+50 Rt.

ITEM I-5, FLAP GATES

The 24" and 27" flap gates are wall mounted, Armco model 10C or an approved equal. The gates shall be fitted with brass bolts, nuts and bushings.

Payment for Item I-5, Flap Gates shall include furnishing and placing of bolts, nuts, bushings, hinge bars and gates complete in place on the proposed pipes.

SKEWED CULVERT ENDS

Where required by the structure details, the skewed end sections of culvert (and/or sewer) pipe shall be specially fabricated by the manufacturer. The short side of any specially fabricated pipe shall not be less than two(2) feet long.

CONSTRUCTION LAYOUT STAKES

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

TEMPORARY GUARD RAIL

See note in proposal describing the work to be done and the materials to be used in this item

REMOVAL OF TREES AND STUMPS

All trees and stumps lying within the construction limits of this project shall be removed or cut flush with existing ground as outlined in E-1.03 under the lump sum price bid for Item E-9, removal of trees and stumps. The following is an approximate estimate of the number of trees and stumps to be removed:

Size	No. Trees	No. Stumps
12" - 18"	726	5
18" - 24"	136	2
24" - 30"	28	0
30" - 36"	16	0
36" - 42"	9	0
42" - 48"	6	0
over 48"	7	0

The above tree count is as of Nov. 27, 1961. Clearing activity by the property owner between Sta. 383+50 to Sta. 419+50 will materially reduce the number of trees and stumps to be removed, and it will be the contractor's responsibility to verify the number of trees and stumps to be removed.

The State of Ohio reserves the right to order the removal of additional trees and stumps outside 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 E-9, removal of trees and stumps.

I-71 PAVEMENT

Existing pavement on I-71 shall not be disturbed prior to May 1, 1963 except by consent of the Director, in writing.

DUST CONTROL

The following quantities have been included in the General Summary for the alleviation or prevention of dust nuisance as per Sec. G-7.14.

	Code 7221	Code 0010
Item M-10 Calcium Chloride for dust control	5 Tons	2 Tons
Item E-11 Water for dust control	20 M. Gals.	8 M. Gals

SEALING OF PIPE JOINTS

Where connections are made between rigid and flexible pipe sections or between pipe sections of different kind or type end fabrication, whether required by plans, arising from permissible use of optional materials, or encountered in connection to existing facilities, the joint shall be sealed, if sealing is required by the specifications, by means of a concrete collar as shown on Standard Drawing I-1. Payment for sealing as described above shall be included in the unit price bid for the pertinent pipe item.

REINFORCED PIPE ENDS

Reinforced ends for Class F-1 Pipe:

Reinforced ends shall be provided for all corrugated metal class F-1, Sec. M-6.4(c) pipes for driveways and underdrain outlets, if pipe ends are unprotected by headwalls, catch basins or manholes.

ITEM SPECIAL REMOVAL AND STORAGE OF EXISTING R/W FENCE

This item shall consist of the careful removal, disassembly and storage of existing fence where shown on the Plans. The fence shall be carefully removed from the posts and rails and all parts shall be assorted and stored adjacent to the right-of-way line within the removal area. The fencing shall be neatly rolled and securely bound into bundles not exceeding four feet in diameter, unless otherwise approved by the Engineer. Reasonable care should be exercised in the handling, storage, and preservation of all materials so as to insure a maximum salvage value for the entire operation.

Existing posts set in concrete shall be removed and disposed of.

The actual number of linear feet (measured from center to center of end posts) of fence removed and stored shall be paid for at the contract unit price bid per linear foot for "Item Special, Removal and Storage of Fence", which price and payment shall constitute full compensation for dismantling, removing, rehandling, and storing all components of the fence, and for all labor, equipment, tools, and incidentals necessary to complete this item.

ROADSIDE CLEANUP

All provisions of Item L-6 shall apply to this operation.

CONTRACTION AND EXPANSION JOINTS

Although specific locations of certain expansion and contraction joints have been detailed on this plan, no waiver of the specifications is intended. Provision of expansion joints at all major structures and the maximum spacing between contraction joints shall in all cases be in accordance with Standard Construction Drawing T-J.

SUB SUMMARY QUANTITIES

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EROSION CONTROL

	Station to Station	L-9 Seeding and Protection
	Code 7221	Square Yards
S.R.200	395+00 to 405+00	31161
S.R.200	405+00 to 415+00	24632
S.R.200	415+00 to 425+00	25104
S.R.200	425+00 to 435+00	18778
S.R.200	435+00 to 445+00	25556
S.R.200	445+00 to 455+00	11420
I-71	450+00 to 460+00	1708
I-71	460+00 to 470+00	10447
I-71	500+00 to 510+00	11097
I-71	510+00 to 520+00	1188
Ramps	Ramp A	68449
Ramps	Ramp B	15707
Ramps	Ramp C	1062
Ramps	Ramp E	12365
Ramps	Ramp H	17746
S.R.104	35+00 to 45+00	7956
S.R.104	45+00 to 55+00	11817
S.R.104	55+00 to 75+00	12708
Mar Dr.	9+90 to 20+00	6054
Mar Dr.	20+00 to 30+00	7268
Mar Dr.	30+00 to 41+75.22	8696
	Thrailkill Rd.	1404
	Sub. Total	332 323
	Code 0010	
S.R.200	365+00 to 375+00	10448
S.R.200	375+00 to 385+00	31129
S.R.200	385+00 to 395+00	34701
I-71	470+00 to 480+00	14816
I-71	480+00 to 490+00	13521
I-71	490+00 to 500+00	19475
Ramps	Ramp D	13999
Ramps	Ramp F	10600
Ramps	Ramp G	11236
	Sub. Total	159925
	Channels	
	Browns Run	9498
	Scioto Big Run	16450
	Sub. Total	25948
	Total	518196

EARTHWORK QUANTITIES

Line Sheet	Excavation	Embankment	Embankment +15%
Code 7221	Cubic Yards	Cubic Yards	Cubic Yards
395+00 to 405+00	5852	109335	125735
405+00 to 415+00	97846	14372	16528
415+00 to 424+50	66955	21466	24686
424+50 to 435+00	941	80535	92615
435+00 to 445+00	2141	98948	113790
445+00 to 455+00	241	46538	53519
450+00 to 460+00	740	733	843
460+00 to 470+00	3721	4793	5512
500+00 to 510+00	1866	5942	6833
510+00 to 520+00	768	721	829
Ramp A	81818	34580	39767
Ramp B	22078	568	653
Ramp C	158	336	386
Ramp E	26897	114	131
Ramp H	19764	29710	34167
35+00 to 45+00	687	10942	12583
45+00 to 55+00	965	32827	37751
55+00 to 75+00	714	24644	28341
9+90 to 20+00	1607	807	928
20+00 to 30+00	4447	53	61
30+00 to 41+75.22	3947	559	643
Thrailkill Rd.	93	291	335
Sub. Total	344246	518814	596636
Code 0010			
365+00 to 375+00	45193	226	260
375+00 to 385+00	188160	876	1007
385+00 to 395+00	152981	14129	16246
470+00 to 480+00	1511	41720	47978
480+00 to 490+00	555	11303	12998
490+00 to 500+00	2672	4958	5702
Ramp D	2697	28952	33295
Ramp F	21842	61	70
Ramp G	1303	44406	51067
Sub Total	416914	146631	168623
Total	761160	665445	765259

CHANNEL EARTHWORK

	E-3	Levee Embank	Levee Emb. +15%
Scioto Big Run	28817	19140	22011
Browns Run	21691	1053	1211
Sub Total	50508	20193	23222
Culverts	7632	2077	2389
Total	58140	22270	25611

PAVEMENT CALCULATIONS

LOCATION	Typical Section	T-71 9" Reinf. Portland Cem. Con. Surf. Course Concrete Pavement S.Y.	T-35 1½" Asphalt Con. Surf. Course Type 2 (85-100) C.Y.	T-35 1½" Asphalt Con. Surf. Course Type "A" (85-100) C.Y.	T-30 Bituminous Prime Coat 40 dal./sq. yd. C.Y.	T-31 Bituminous Surf. Treat .025 gal/sq. yd. .008 cu. yd. Agg. Material per sq. yd. C.Y.	T-31 Bituminous Surf. Treat .025 gal/sq. yd. per sq. yd. GAL.	B-19 6" Crushed Aggregate Base Course C.Y.	B-19 8" Crushed Aggregate Base Course C.Y.	B-21 8" Water-proofed Aggregate Base Course C.Y.	B-112 Porous Base Course C.Y.	B-35 1½" Asphalt Concrete Leveling Course (70-85) C.Y.	B-35 1½" Asphalt Concrete Leveling Course (70-85) C.Y.	I-22 Subbase C.Y.	I-21 Std. Type 2 P.C.C. Median Pavement 1' Wide S.Y.	I-21 Std. Type 2 P.C.C. Median Pavement 10' Wide S.Y.	
	A	27083					3423			1322	1610			6796			2824
	B	7187					814			361	502			1872			
	D	2692					263			150	249			791		787	
	E	2080					268			96	317			638		1003	
	F	2518					419			280	74			717		1034	
	G	4247					492			328	87			1036			
	H	294					52			25	27			83			
	J	5640					523			285	274			1354		709	
	K	4052					442			295	147			1103			
	L	11335					1415			944	2728			2728			
	M	1221					133			89	27			292			
	N	6193					754			502	251			1535			
	P							1029			267			256	1068		
	S		204		2410				1677			204	247	1080			
	T			300	3019												
TOTAL		75342	204	300	5489	288	8998	1029	1677	4677	6560	204	247	20341	1777	2824	

Line Data Calculations For Approaches

I-71
Begin Work Sta. 453+50.00
End Work Sta. 518+80.00
Net Length of Work = 6,530.00 Lin.Ft.

S.R.104
Begin Work Sta. 37+25
End Work Sta. 66+75
Net Length of Work = 2,950.00 Lin.Ft.

S.R.200
Begin Work Sta. 371+32.00
Begin Project Sta. 373+00.00
End Project Sta. 448+00.00
End Work Sta. 449+50.00
Net Length of Work = 318.00 Lin.Ft.

MARLANE DRIVE
Begin Work Sta. 0+00.00
End Work Sta. 31+75.22
Net Length of Work = 3,185.22 Lin.Ft.

Total Length of Approaches = 12,983.22 Lin.Ft.

FERTILIZER

	Code 7221	Code 0010
Seeding Area	358271 S.Y.	159925 S.Y.
Sodding Area	15949 S.Y.	65 S.Y.
Special Sodding Area	247 S.Y.	378 S.Y.
TOTAL AREA	374467 S.Y.	160368 S.Y.
Fertilizer @ 20lb. per 1000 Sq.Ft.	33.70 Tons	14.43 Tons

WATER CALCULATION ITEM E-11

	ITEMS	Cubic Yards	Gals / Cu. Yd	Water M-Gals
Code 7221	Roadway Embankment	541084	5	2705
	B-19	3230	5	16
	I-22	18287	5	91
	TOTAL			2812
Code 0010	Roadway Embankment	146631	5	733
	I-22.	2158	5	11
	TOTAL			744

EARTHWORK BALANCE

Roadway Excavation	761160 C.Y.
Channel Excavation	58140 C.Y.
TOTAL EXCAVATION	819300 C.Y.
Roadway Embankment +15%	765259 C.Y.
Levee Embankment +15%	25610 C.Y.
TOTAL EMBANKMENT	790869 C.Y.
Excess Excavation	28431 C.Y.

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Roadway Items Continued on Sheet No. 17

Item	Item Description	Unit	Quantities Carried From Sheet Number 11	12	13	14	19	20	21	22	23	24	25	26	27	106	107	108	109	110	111	112	138	139	140	141	142	143	197	198	199	207	208	209	210	237	2	311	Calc.
	ROADWAY																																							
E-1	Roadway Excavation Method "B" as per plan	C.Y.				761,160																																	
E-1	Compacted Subgrade	S.Y.																																					
E-8	Removal & Disposal of Existing Pavement	S.Y.															788	1060	2080	788												10							
E-9	Removal of Trees & Stumps	Lump			Lump																																		
E-11	Water	M.Gal.																																					
I-8	Centerline Reference Monuments as per plan	Ea.																																			9		
I-15	Guard Rail Steel Beam Standard Type (Deep)	L.F.								675	287.5	863.5	1302	1000	237			788.75	649.75					712.5	362.5	1150	2500		812.5	1221.5	977.5								
I-15	Guard Rail Steel Beam Barrier Type (Deep)	L.F.										150	150					175	350																				
I-15	Guard Rail Removed & Rebuilt	L.F.																								25													
I-15	Guard Rail Removed & Stored	L.F.																1365	530										450	243	192								
L-9	Seeding & Protecting, As Per Plan	S.Y.				518,186																																	
L-9	Commercial Fertilizer (12-12-12)	Tons																																					88.13
L-10	Sodding, as per plan	S.Y.								173	467	1375	307			160		65				185	2893	988	1077	2043	1256	1506	332		163		1240	1022				
L-10	Sodding for Special Berm and Slope Protection, as per plan	S.Y.																313	65					26	16					205									
L-120	Jute Matting	S.Y.											155	111				184						532	166	266	902	933				44							
L-6	Roadside Cleanup	Units																					92	248			180	178											
S-24	Removal of Existing Structures	Lump																											Lump	Lump	Lump								
SS-18	Fence Type "D"	L.F.								408	2000	1837	1896	2000	800								2609	1483	1462	2190	1761	2345											
203(2) 101.04	Compaction Using Heavy Pneumatic Tired Roller	Hours																																				38	
I-127	Delineators Type A-1 Post Mounted	Ea.																																		32			
I-127	Delineators Type A-1 Bracket Mounted	Ea.																																		2			
M-10	Calcium Chloride for Dust Control	Tons			7																																		
E-11	Water for Dust Control	M.Gal.			28																																		
I-15	Temporary Guard Rail as per plan	L.F.						275		275	625					1000	1450			1050	1400			575		575	312.5	75											
M-10	Calcium Chloride furnished and applied for Maintenance	Tons	10																																				
Special	Removal and Storage of existing R/W Fence Traffic	L.F.															1028	1951	1000	2000	1930	95																	
	DRAINAGE																																						
E-2	Excavation for Structures	C.Y.																									910												
E-3	Channel Excavation	C.Y.				21,691				82																			350	4686			518						
E-12	Pipe Removed, 15" & Under, as per plan	L.F.																		4	4								262	210	96		56						
E-12	Pipe Removed, Over 15", as per plan	L.F.																12													245		40						
I-1	6" Pipe Class E-1	L.F.	100																																				
I-1	6" Pipe Class I-3	L.F.					1976	2091	3513	4041	3814	3602	4117	1400	680	990	945	370	15	15			3913	2422	991	618	1878	2431											
I-1	8" Pipe Sec. M-6.6(b) or M-6.8(b) Class A-1	L.F.						80	40						72		100	28		90																			
I-1	8" Pipe Class F-1	L.F.					30	40	80	20	20	20	30				20	115	10	20				80	20	10		10											
I-1	8" Pipe Sec. M-6.4(C) Class F-1	L.F.								10		20	30		10	10	20	10		10			40			10	20	10											
I-1	12" Pipe Class E-1	L.F.								38	38	76	108	38															76										
I-1	12" Pipe Class F-1	L.F.																											10			60							
I-1	15" Pipe Sec. M-6.6(a) or M-6.8(b) Class A-1	L.F.					201		107	105	82		194			24	50	196	20	93				88			68		68										
I-1	15" Pipe Class E-1	L.F.					38	14			500						197													144									
I-1	15" Pipe Class F-1	L.F.					96										180							56		22			250			30						
I-1	15" Pipe Sec. M-6.6(a) or M-6.8(b) Class B-1	L.F.																														196							
I-1	18" Pipe Sec. M-6.6(a) or M-6.8(b) Class A-1	L.F.					42	88	58								326						152									170		120					
I-1	18" Pipe Sec. M-6.6(d) Class A-1	L.F.																									126												
I-1	18" Pipe Class E-1	L.F.						119																						68									
I-1	18" Pipe Class F-1	L.F.					52										48																						
I-1	21" Pipe Sec. M-6.6(a) or M-6.8(b) Class A-1	L.F.						63																161															
I-1	24" Pipe Sec. M-6.6(a) or M-6.8(b) Class A-1	L.F.					101		36	270																								60					
I-1	24" Pipe Sec. M-6.6(c) Class A-1	L.F.											227																										
I-1	24" Pipe Sec. M-6.8(d) Class A-1	L.F.																																					
I-1	24" Pipe Class E-1	L.F.					42																			232													
I-1	27" Pipe Sec. M-6.6(a) or M-6.8(b) Class A-1	L.F.					100	320																						34									
I-1	27" Pipe Sec. M-6.8(d) or M-6.6(c) Class A-1	L.F.											79																										
I-1	30" Pipe Sec. M-6.6(a) or M-6.8(b) Class A-1	L.F.						100	384																									60					
I-1	30" Pipe Class E-1	L.F.						330	158																														
I-1	36" Pipe Sec. M-6.6(b) or M-6.8(b) Class A-1	L.F.								256																													
I-1	42" Pipe Class E-1	L.F.					104	570																															
I-1	27" Pipe Class E-1	L.F.						57																															

Item	Item	Unit	Quantities CODE 7221	CODE 0010	100% STATE FUNDS	Grand Total
E-1	Cu.Yd.	345,542	416,914	704	761,160
E-1	Sq.Yd.	124109			124,109
E-8	Sq.Yd.	1586	3,146		4732
E-9	Lump	Lump	Lump		Lump
E-11	M.Gal.	2812	744		3556
I-8	Each	5	4		9
I-15	L.F.	13800			13,800
I-15	L.F.	~~825~~		825	825
I-15	L.F.	75			75
I-15	L.F.	885	1895		2780
L-9	Sq.Yd.	356,271	159,915		516,186
L-9	Tons	33.70	14.43		48.13
L-10	Sq.Yd.	15,649	65		15,714
L-10	Sq.Yd.	247	378		625
L-120	Sq.Yd.	1608	164		2775
L-6	Units	938			938
S-24	Lump	Lump			Lump
SS-18	L.F.	20,759			20,759
203(2) 101.04	Hours	38			38
I-127	Ea.	32			32
I-127	Ea.	2			2
M-10	Tons	5	2		7
E-11	M.Gal.	20	8		28
I-15	L.F.	12287.5			12287.5
M-10	Tons	10			10
Special	L.F.	2665	5951		8604
E-2	Cu.Yd.	910			910
E-3	Cu.Yd.	29323			29323
E-12	L.F.	827	4		831
E-12	L.F.	285	12		297
I-1	L.F.	100			100
I-1	L.F.	35,823	4395		40,218
I-1	L.F.	182	208		390
I-1	L.F.	310	215		525
I-1	L.F.	170	30		200
I-1	L.F.	378			378
I-1	L.F.	70			70
I-1	L.F.	824	476		1300
I-1	L.F.	644	249		893
I-1	L.F.	108	276		384
I-1	L.F.	446			446
I-1	L.F.	476	456	24	956
I-1	L.F.	126			126
I-1	L.F.	66	119		185
I-1	L.F.		100		100
I-1	L.F.	161	63		224
I-1	L.F.	322	137	8	467
I-1	L.F.	227			227
I-1	L.F.	232			232
I-1	L.F.	34	42		76
I-1	L.F.		420		420
I-1	L.F.	78			78
I-1	L.F.	56	486	4	546
I-1	L.F.		488		488
I-1	L.F.	256			256
I-1	L.F.		674		674
I-1	L.F.		97		97

Rev. 8-21-62 Rev. 11-7-62

General Summary Quantities

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

16/333

FRANKLIN COUNTY · FRA-200-8.04

| Item | Item Description | Unit | Quantities Carried From Sheet Number | | |

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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Item	Item Description	Unit	Quantities Carried From Sheet Number 11	12	13	14	19	20	21	22	23	24	25	26	27	106	107	108	109	110	111	112	138	139	140	141	142	143	197	198	199	207	208	209	210	237	Calc.
	Pavement																																				
T-71	9" Reinforced Portland Cement Concrete Pavement	S.Y.				75,342																															
T-35	Asphaltic Concrete Surface Course Type C (70-85)	C.Y.				704																						14		33	25	24	20	2		
T-35	Asphaltic Concrete Surface Course Type A (85-100)	C.Y.				300																															
T-31	Bituminous Surface Treatment No 6 Aggregate	C.Y.				280								5																							
T-31	Bituminous Surface Treatment - Bituminous Material as per plan	Gal.				8998								133																							
T-70	9" Portland Cement Concrete Pavement	S.Y.															788			788																	
T-30	Bituminous Prime Coat Sec M-5.7 RT-2 or RT-3	Gal.				5489																						100		199	236	171	145	14		
B-19	Aggregate Base Course	C.Y.				2706								79														35		182	164	59	79	5		
B-21	Waterproofed Aggregate Base Course, as per plan	C.Y.				4677								45																							
B-112	Porous Base Course	C.Y.				6560																															
B-35	Asphaltic Concrete Leveling Course (70-85)	C.Y.				451																															
I-7	Reinforced Concrete Approach Slab (T=13")	S.Y.											267					403	514					47	67				176								
I-12	Concrete Curb Standard Type 6	L.F.																					204	412		204		204									
I-12	Special Portland Cement Concrete Curb	L.F.																					200	346			550	49									
I-21	Std. Type 2 Portland Cement Concrete Median Pavement, as per plan	S.Y.				4601																															
I-21	4" Portland Cement Concrete Median Pavement, Standard Type I	S.Y.																					12	36		12		14									
I-22	Subbase, Grading "A" or "B", as per plan	C.Y.				20,341								100																4							
	ROADWAY (Con't.)																																				
I-125	4" Center Lines (S.R 104 & Marlane Drive)	Mile																																		0.83	
I-125	4" Edge Lines	Mile																																		10.08	
I-125	4" Center Lines and Lane Lines, as per plan	Mile																																		1.37	
I-125	8" Channelizing Lines	Mile																																		0.38	
I-125	2" Diagonal Stripes	Lump																																		Lump	
I-125	Curb and Island Marking	Lump																																		Lump	
T-10	Traffic Compacted Surface Course for Maintaining Traffic	C.Y.	500																																	500	
L-1	Topsoil Stockpiled	C.Y.																							4250												
L-3	Placing Stockpiled Topsoil, as per plan	C.Y.																																		4222	
E-4	Borrow using Granular Material, as per plan	C.Y.																																	1994		
	Construction Layout Stakes	Lump																																			
	Structures Over 20' Span																																				
	For Estimated Quantities :																																				
	FRA-200-0806 See Sheet No 251																																				
	FRA-200-0819 & 0822 See Sheet No 264																																				
	FRA-200 Ramp A Under I-71 See Sheet No 278																																				
	FRA-200-0894 See Sheet No 288																																				
	FRA-200-0904 See Sheet No 299																																				
	BUILDING REMOVALS																																				
~~E-10~~	~~Removal of 1 Story Frame Residence, three frame sheds, and one outhouse, Parcel No. 100-WL~~	~~Lump~~																																			
E-10	Removal of 1½ Story Log Residence, one Pump House, one outhouse, and one frame shed, Parcel No. 103-WL	Lump																																			
E-10	Removal of 1½ story frame Residence, three frame sheds, one chicken house, and one outhouse, Parcel No. 104-WL	Lump																																			
~~E-10~~	~~Removal of one outhouse, Parcel No. 105-WL~~	~~Lump~~																																			
E-10	Removal of one frame shed, Parcel No. 105-A-WL	Lump																																			

Item	Unit	Quantities CODE 7221	Quantities CODE 0010	Quantities 100% STATE FUNDS	Grand Total
T-71	S.Y.	75342			75,342
T-35	C.Y.	922			922
T-35	C.Y.			300	300
T-31	C.Y.	293			293
T-31	Gal.	9131			9131
T-70	S.Y.	1576			1576
T-30	Gal.	5325		3019	8344
B-19	C.Y.	3104		205	3309
B-21	C.Y.	4722			4722
B-112	C.Y.	6560			6560
B-35	C.Y.	451			451
I-7	S.Y.	1494			1494
I-12	L.F.	1090			1090
I-12	L.F.	1145			1145
I-21	S.Y.	4601			4601
I-21	S.Y.	74			74
I-22	C.Y.	20445			20,445
I-125	Mile	0.83			0.83
I-125	Mile	10.08			10.08
I-125	Mile	1.37			1.37
I-125	Mile	0.38			0.38
I-125	Lump	Lump			Lump
I-125	Lump	Lump			Lump
T-10	C.Y.	500			500
L-1	C.Y.	4250			4250
L-3	C.Y.	2946	1276		4222
E-4	C.Y.	1994			1994
	Lump	Lump	Lump	Lump	Lump
E-10	Lump	Lump			Lump
E-10	Lump	Lump			Lump
~~E-10~~	~~Lump~~	~~Lump~~			~~Lump~~
E-10	Lump	Lump			Lump

General Summary Quantities

FED. RD. DIVISION	STATE	PROJECT		SHEET NO.	TOTAL SHEETS
2	OHIO			18	333

FRANKLIN COUNTY
FRA-200-8.04

Key To Plan Sheets

Grading & Drainage

Future Not In Contract

Proposed In This Contract

Paving

Future Not In Contract — Pav't. — Shld's.

Proposed In This Contract — Pav't. — Shld's.

℄ S.R. 200 Curve Data
P.I. 338+22.20 L = 4386.17'
Δ = 21°55'51" T = 2220.20'
D = 00°30'00" R = 11459.16'
E = 213.110' S = 0.0156 ft/ft. Width

See Sh. No. 99 for Ramp "C" Details.

Sta 355+00 Begin Sheet

Sta 365+00 End Sheet

John E.R. & Goldie Marie Bauman (P.E.R.B.)

Ralph R. & Dorothy A. Ryerson

Quda A. Blevins

Earl & Frances Rutherford

Jesse & Parmelia Spicer

Bldg. Found. Outline

Abandoned

Future #C.B.

Future #2-G Inlet

Future #8 C.B.

Future #2 C.B.

Future #2-3C.B.

Future #3 C.B.

Future #2-G Inlet

Ramp "C"

Ramp "D"

8' Paved Shoulder

Woodland Area

Pasture

Cultivated Field

Field

Fence

℄ Private Rd.

℄ Survey S.R. 200

PC 20+61.82 "C" = 359+88.17 S.R. 200 @ 84.75 Rt.

PT 359+88.17

N. 55° 02' 44" W.

S 53° 51' 07" E

S 51° 20' 30" E

D = 0°30'

D = 1°30'

Ramp "D" Curve Data
Δ = 2°30'31"
D = 1°30'00"
R = 3819.72'
L = 167.74'

Ramp "D" Curve Data
Δ = 6°00'31"
D = 1°30'00"
R = 3819.72'
L = 400.57'

PT 1+50.67

PC 6+28.08

PT 7+95.27

John F. Haag, Jr.

Joseph & Margaret Ent

Top of Slope

℄ Marlane Dr. 2 Service Rd

1 Sty. Fr.

Patio

PC 11+07.10 = 368+00.52 S.R. 200 @ 105' Rt.

Marie & Ermal Ball

See Sh. No. 96 for Ramp "D" Details.

B.M. R.R. Spike in base, West Side, 24" Oak, 27' Rt. Sta. 359+22 Elev. 768.38

THIS SHEET FOR INFORMATION ONLY

-0.40%

-0.679%

P.V.I. Sta 358+00 Elev. 744.11

200 V.C.

Excavation CY.
Embankment CY.
Embankment +20% CY.

Sta. 355+00 to Sta. 365+00

CO. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY
FRA - 200 - 8.04

Note: Typical Section adjacent to beginning of project is identical to that shown on Sheet N° 6 for Sta. 373+00 (Typical Section "C")

Sta. 365+00 Begin Sheet

Sta. 375+00 End Sheet

See Sheet No. 139 for Ramp "C" Details 93 & 94.

See Sheet No. 138, 139, 140 & 142 for Ramp "A", Details 90, 91, 93 & 104.

See Sheet No. 139

See Sheet No. 140

See Sheet No. 140

See Sh. No. 144 for Profile Ramp "A".

See Sh. No. 217

Jesse & Parmelia Spicer

James Centers

Joseph & Margaret Ewing

Burley Spaulding

Lena Crocker

Delbert & Freda Perdue

H. Griffith Carlisle

Marie & Ermal Ball

Carl L. & Elizabeth A. Alford

James Barnhouse

Field Drive to be abandoned & Provide stub & plug

Top of Slope

Sodded Gutter (Typ.)

Grass

Brush

Shed

Res.

Access

Future #5 C.B. See Sh. No. 140 & 141 for Ramp "D" Details 95 & 96.

Future #5 C.B.

Future Std. #2-4 C.B.

Future #4 C.B.

Future #5 C.B.

Ref. Pt. Sta. 370+35.45 ℄ Survey S.R. 200 1961

℄ S 53°51'07" E 370

BEGIN WORK Sta. 371 + 32

BEGIN PROJECT 373+00.00 S.L.M. 8.04

Sta. 370+76.18 ℄ S.R. 200

Sta. 20+00.47 ℄ Logan Rd.

Struct. N° FRA 200-0806 See Sheet N° 249-260

I 270-4(4)99

FRA-71-10.63 0.10 mi W 270-0865

371+75.79 89' Lt. "I" C-D Road

"K" C-D Road

114°07'53"

Sta. 24+08.58

Sta. 25+69.21 "A" Ramp

Sta. 27+29.84

374+25.15 S.R. 200

Begin Slope

End Slope

Ramp "A"

Ramp "B"

Ramp "C"

Ramp "D"

Provide Stub & Plug

Lazear Rd.

Logan Rd.

Profile of Temporary Approach

-0.679%

B.M. RR. Spike in West Side 36" Locust 1225' Rt. Sta. 374+30 Elev. 750.010

VOID - 16

Ref. Pt. Sta. 370+35.40
Tack in Hub
103.0'
31°54'10"
426.0'
℄ Survey
39°50'30"
Tack in Hub
180.0'
301.0'

ITEM I-8
DRAINAGE STRUCTURES

Ref. No.	Station	Offset	Std. N° 5 C.B. Each	Std. N° 8 C.B. Each	Std. N° 2-4 C.B. Each	Std. N° 2-10 Inlet Each
9	374+00	119' Rt.			1	1
9A	373+90	77' Rt.				
9B	373+80	19' Rt.		1		
9C	373+70	19' Lt.		1		
9D	373+60	77' Lt.				1
9E	373+50	119' Lt.	1			
	TOTAL		1	2	1	2

ITEM I-1
STORM SEWER

FROM	To	24" Class A-1 M-6.6(a) or 6.8(a) Lin. Ft.	24" Class E-1 Lin. Ft.	27" A-1 M-6.6(a) or 6.8(a) Lin. Ft.	42" Class E-1 Lin. Ft.
8	9				4' #
13	9E		4 #		
9E	9D	42			
9D	9C	59			
9C	9B		36		
9B	9A			59	
9A	9			41	
9	10				100
Total		101	42	100	104

Federal Marker will be furnished and erected on the right by the State of Ohio before acceptance of this project.

stub (to be plugged)

Excavation 45,193 CY
Embankment 220 CY
Embankment-in-Place 230 CY

Sta. 365+00 to Sta.

FRANKLIN COUNTY
FRA-200- 8.04

BEGIN PAVING
STA. 376+66.58

See Sheet No. 139

See Sh. No. 139 for Ramp "B", Details Sheet No. 92.

See Sheet Nº 109

See Sh. No. 143 for Ramp "F", Details. 100.

See Sh. No. 109 for I.R. 71 Drainage Details.

See Sh. No. 220 & 221 for Storm Sewer Profiles.

Sodded Gutter (Typ.) See Sh. No. 217

Delbert & Freda Purdue

"B" T.S. Sta 10+00 = Sta 379+59.08 113' Lt.

Top of Slope

Crocker Lane

RAMP "B"

RAMP 15 "B"

"I" C-D Road

3' Paved Shoulder | 10' Paved Median | 10' Paved Shoulder

℄ Survey 1961 S.E. 200

Field Road (to be abandoned)

"K" C-D Road

10' Paved Shoulder | 3' Paved Shoulder | 8' Paved Shoulder | 10' Paved Median

Struc. Nº FRA-200-0819
See Sheet Nº 261-276

Ref. Pt. Sta. 381+07.87

Sta 375+00 Begin Sheet

Sta 385+00 End Sheet

Begin Appr. Slab Sta 486+91.25

End Appr. Slab Sta 483+64.75

Ex. 6" Underdrains

Existing Pavement

Concrete

South Bound

North Bound

J.C.D. ROAD

Ex. Special Ditch

Exist. R/W Fence

Franklin Development Co. Limited

Top of Slope

Sta 384+15.08 113' Lt.

RAMP "F"

Sta 385+00 End Sheet

S 53° 51' 07" E

Struc. Nº FRA-200-0822
See Sheet Nº 261-276

RAMP "G"

"G" T.S. Sta 30+00.

Sta 383+95.81 105' Rt.

Wooded Area

Top of Slope

Franklin Development Co. Limited

H. Griffith Carlisle

Exist. Special Ditch

Exist. R/W Fence

B.M. Top of Rod in Conc. Mon. in ℄ of Median, ℄ U.S. 62
Sta. 480+00 Elev. 752.933

See Sheet Nº 109

See Sh. No. 142 for Ramp "G", Details. 101.

ITEM I-8
DRAINAGE STRUCTURES

Ref. No.	Station	Offset	Std. No. 5 C.B. Each	Std. No. 8 C.B. Each	Std. No. 2-10 Inlet Each	Std. No. 2-5 C.B. Each	Std. No. 3 Inlet M.H. Each
10	380+70	119' Rt.				1	
10A	380+60	171' Rt.	1				
10B	380+70	77' Rt.			1		
10C	380+70	19' Rt.		1			
10D	380+70	19' Lt.		1			
15	377+00	138' Lt.	1				
15A	12+50 "B"	18' Rt.	1				
15B	377+50	115' Lt.					1
16	380+70	127' Lt.	1				
16A	380+70	77' Lt.			1		
17	381+96	127' Lt.	1				
17A	381+96	223' Lt.		1			
18	384+00	127' Lt.	1				
18A	384+00.85	Lt.				1	
	Total		6	3	3	1	1

ITEM I-1
STORM SEWER

From	To	15" Pipe Cl. A-1 M&B(a) M&B(b) L.F.	15" Pipe Cl. E-1 L.F.	15" Pipe M-6.6(a) Cl. F-1 L.F.	18" Pipe Cl. A-1 M-6.6(a) M&B(b) L.F.	18" Pipe Cl. F-1 L.F.	27" Pipe Cl. E-1 L.F.	27" Pipe Cl. A-1 M-6.6(a) M&B(b) L.F.	30" Pipe Cl. A-1 M-6.6(a) M&B(b) L.F.	30" Pipe Cl. E-1 L.F.	42" Pipe Cl. E-1 L.F.	48" Pipe Cl. E-1 L.F.
9	10										370	
10	10A					62						
10	10B				42							
10B	10C	58										
10C	10D		38									430
10	11											
15	15A	51										
15	15B						57					
15B	16							320				
16	16A	80										
16	17									126		
17	17A			96								
17	18									204		
18	18A	42							100			
18	19											
Total		201	38	96	42	62	57	320	100	330	570	430

ITEM I-5
PIPE SPECIALS

From	To	15" C.M.P. Bends Each	30" C.M.P. Bends Each
9	10		1
10	10A		
10	10B		
10B	10C		
10C	10D		
10	11		
15	15A		
15	15B		
15B	16		
16	16A		
16	17		1
17	17A		
17	18		
18	18A		
18	19	1	1
Total		1	1

UNDERDRAINS

Ref. No	Station From	Station To	Side	I-1 Shallow 6" Cl. I-3 Pipe L.F.	I-1 Shallow 6" Cl. F-1 Pipe L.F.	I-1 Deep 6" Cl. I-3 Pipe L.F.	I-1 Deep 6" Cl. F-1 Pipe L.F.	I-5 6" Wye Each
1U	375+70	380+68	Lt.	487	10			
2U	380+72	385+00	Lt.	428				
3U	379+58	380+68	Lt.			116	10	1
4U	380+72	383+98	Lt.			332	10	1
5U	384+02	384+15	Lt.			13		
	Total			915	10	461	20	2

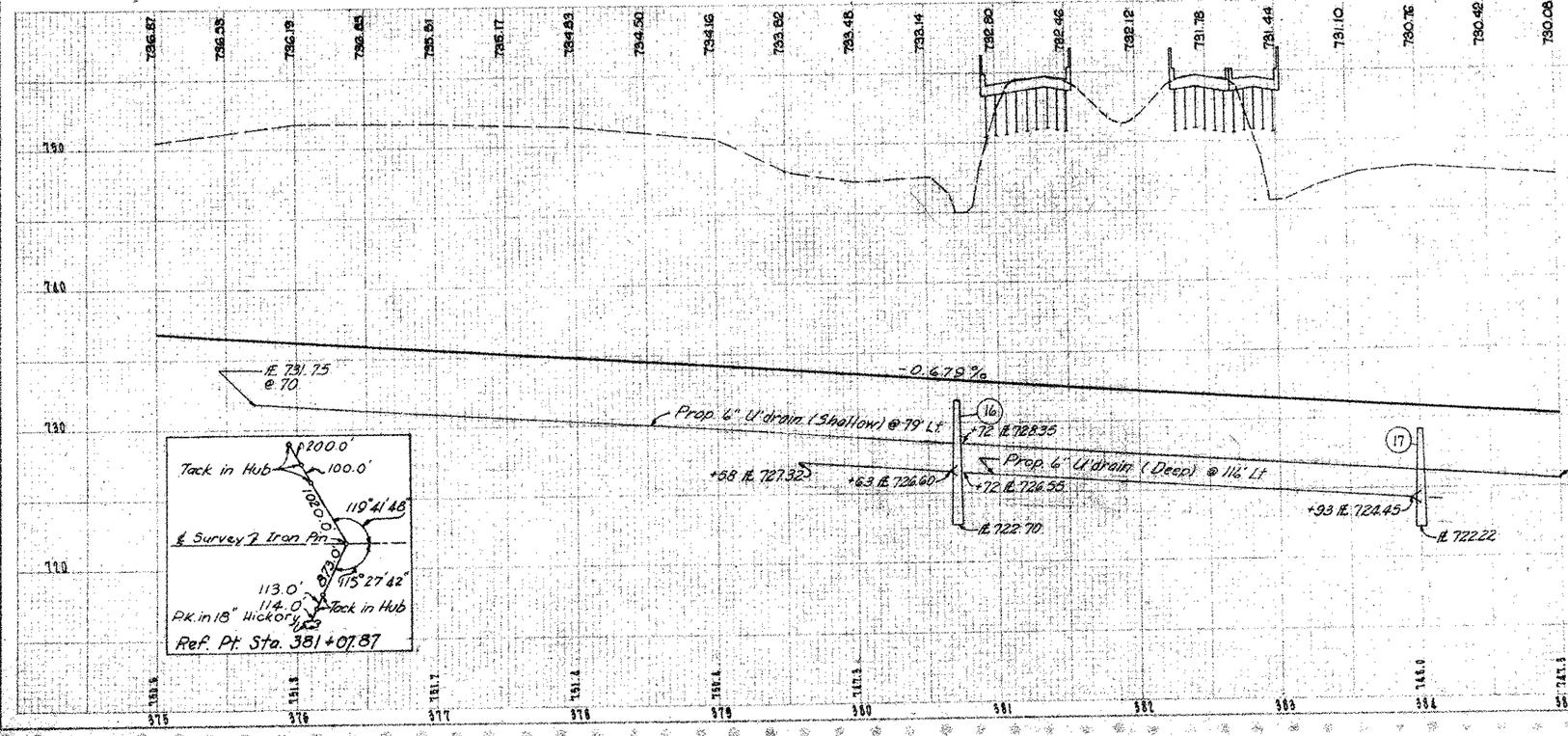
ROADWAY

Ref. No	Station From	Station To	Side	I-15 Temp. Guard Rail L.F.
1R	377+70	380+65	Lt.	275
	Total			275

188,160 C.Y.
876 C.Y.
1007 C.Y.

Excavation
Embankment
Embankment +15%

Sta. 375+00 to Sta. 385+00



FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

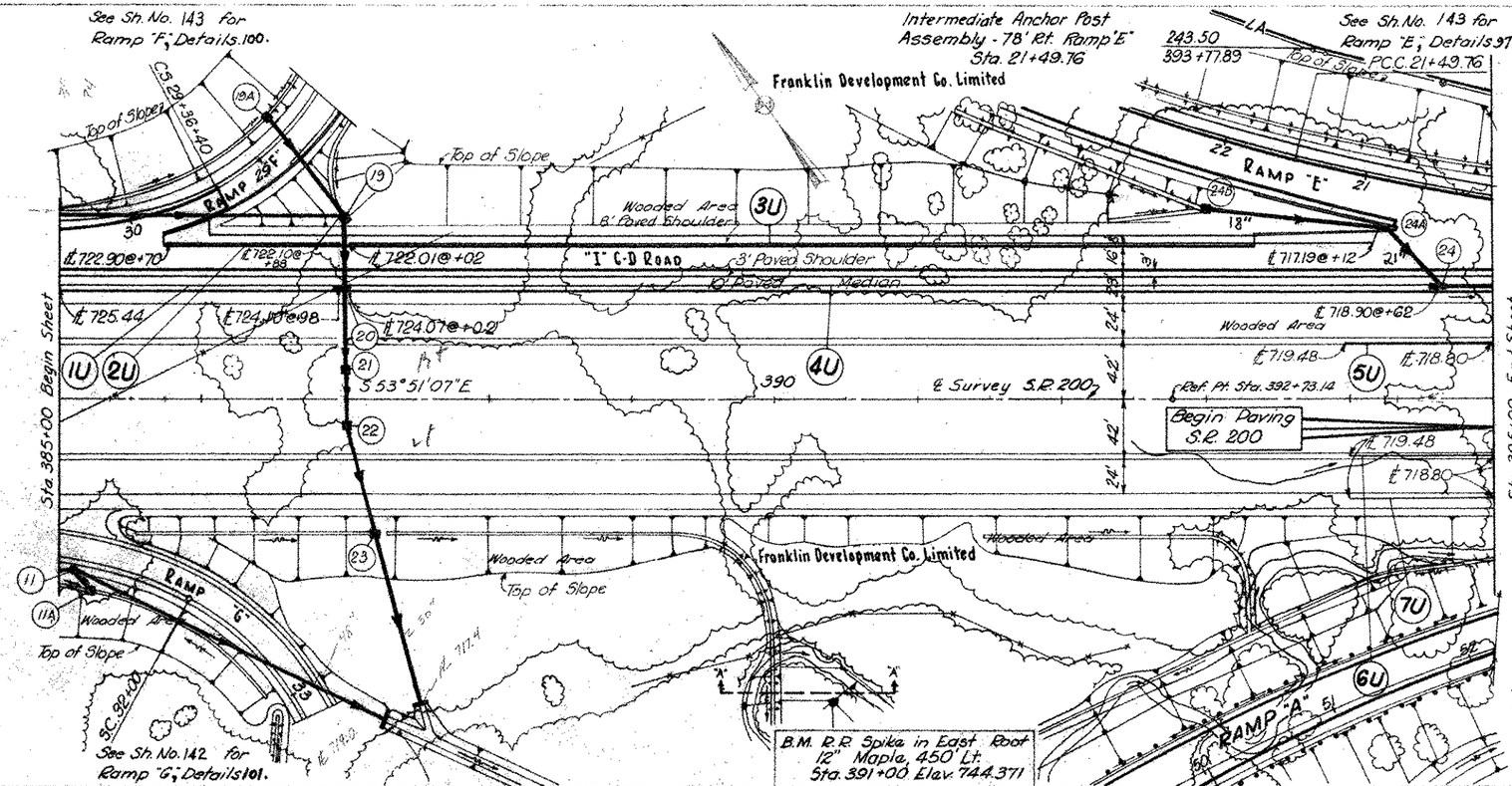
FRANKLIN COUNTY
FRA ~ 200 ~ 8.04

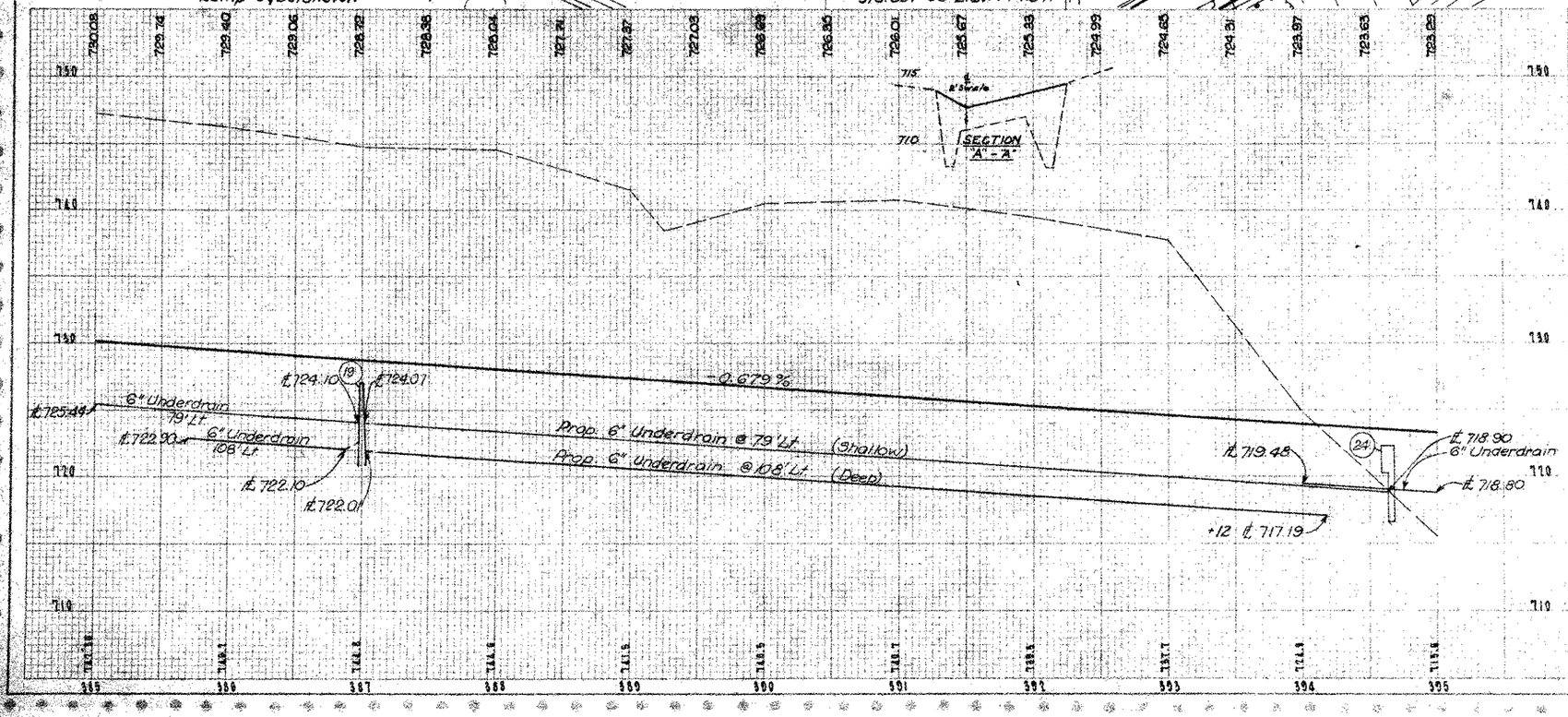
See Sh. No. 143 for Ramp "F"; Details 100.

Intermediate Anchor Post Assembly - 78' Rt. Ramp "E" Sta. 21+49.76

See Sh. No. 143 for Ramp "E"; Details 97-99.

Note: For Storm Sewer Profiles See Sh. No. 220 & 221





ITEM I-8 DRAINAGE STRUCTURES

Ref. No.	Station	Offset	Std. No. 5 C.B. Each	Std. No. 8 C.B. Each	Std. No. 210 Inlet Each	Std. No. 26 Inlet Each	Std. No. 1-A M.H. Each
11	385+10	119' Rt.					1
11A	"G" 31+25	18' Rt.	1				
19	387+00	127' Lt.	1				
19A	"F" 28+75	18' Rt.	1				
20	387+00	77' Lt.			1		
21	387+00	19' Lt.		1			
22	387+00	19' Rt.		1			
23	387+20	94' Rt.	1				
24	394+64	77' Lt.			X		
24A	394+17	119' Lt.				X	
24B	393+00	130' Lt.	X				
	Total		5	2	2	1	1

ITEM I-1 STORM SEWER

From	To	15" Class E-1 L.F.	18" Cl. A-1 M.6.6(a) or 6.8(a) L.F.	18" Class E-1 L.F.	21" Cl. A-1 M.6.6(a) or 6.8(b) L.F.	24" Cl. A-1 M.6.6(a) or 6.8(b) L.F.	30" Cl. A-1 M.6.6(a) or 6.8(b) L.F.	30" Class E-1 L.F.	48" Cl. A-1 M.6.6(b) L.F.	48" Class E-1 L.F.	I-2 Masonry Class "C" C.Y.
10	11									10	
11A	11	14									
11	EW								240		15
18	19						200				
19A	19		68								
19	20						50				
20	21						58				
21	22							38			
22	23						78				
23	EW							120			0.51
24B	24A			119							
24A	24				63						
24	25					36					
Total		14	68	119	63	36	386	158	240	10	15.51

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 Shallow 6" Cl. I-3 Pipe L.F.	I-1 Shallow 6" Cl. F-1 Pipe L.F.	I-1 Deep 6" Cl. I-3 Pipe L.F.	I-1 Deep 6" Cl. A-1 Pipe L.F.	I-1 Deep 6" Cl. F-1 Pipe L.F.	I-5 6" 60° Wye Each	I-5 6" 60° Bend Each
1U	385+00	386+98	Lt.	188	10					
2U	385+70	386+98	Lt.			138		10	1	
3U	387+02	394+20	Lt.			715	80	10		1
4U	387+02	394+62	Lt.	750	10					
5U	394+00	395+00	Lt.	100						
6U	394+00	395+00	Rt.	100						
7U	394+00	395+00	Rt.	100						
	Total			1238	20	853	80	20	1	1

Excavation 152,996 C.Y.
Embankment 14,189 C.Y.
Embankment 1.15% 16,318 C.Y.

Sta. 385+00 to Sta. 395+00

MFG. NO. DIVISION	STATE	PROJECT		
2	OHIO			

22 / 333

FRANKLIN COUNTY
FRA-200-8.04

Franklin Development Co. Limited
for I-5 see Ramp "E" Sheet No 149

For Details of Culvert Sta. 401+60, See Sheet N° 228

Intermediate Anchor Post Assembly 181.3' Lt. Sta. 396+11.48

See Sh. No. 143 for Ramp "E", Details 97-99.

See Sh. No. 142 for Ramp "A", Details 104.

183.15' Sta. 396+11.48

End Post Assembly 171' Lt. Sta. 401+80

End Post Assembly 165' Lt. Sta. 402+40

PC 12+34.93 = SR 200 402+69.83 107.53' Lt

250' Sta. 405+00

225' Sta. 405+50

175' Sta. 401+50

Sta 405+00 End Sheet

Sta 395+00 Begin Sheet

Stream Crossing Type 2 See Std Drawing P-2

Ramp "E" 10' Paved Shoulder 3' Paved Shoulder 10' Paved Median 10' Paved Shoulder

Ramp "A" 10' Paved Shoulder

N51°20'53"W

S 53°51'07" E

Ref. Pt. Sta 400+93.46

℄ Survey SR 200

Brown's Run

Bike Path

For Culvert Details See Sheet No 228

S 55°31'28" E

Wooded Area

For I-5 Back see Ramp "A" Sheet No. 142

Intermediate Anchor Post Assembly 148' Rt. Sta. 405+00

Intermediate Anchor Post Assembly 228' Rt. Sta. 401+00

Intermediate Anchor Post Assembly — 118' Rt. Ramp "A" Sta. 34+21.51

Franklin Development Co. Limited

For Details of Culvert Sta. 405+00 See Sheet No. 229

B.M. R.R. Spike in West Side 12" Oak, 302' Rt. Sta. 402+00 Elev. 786.125

244' Sta. 397+16.95

Top of Slope

Wooded Area

UNDERDRAINS

Ref. N°	Station From	Station To	Side	I-1 Shallow 6" CI I-3 Pipe L.F.	I-1 Shallow 6" CI A-1 Pipe L.F.	I-1 Deep 6" CI F-1 Pipe L.F.	I-5 6" CI I-3 Pipe L.F.	I-5 6" CI F-1 Pipe L.F.	I-5 60° Wye Each	I-5 60° Bend Each
1U	395+00	396+98	Lt.	211		10			1	
2U	398+00	399+80	Rt.	197		10				1
3U	395+00	400+00	Rt.	500	40					1
4U	X 57+40	X 62+24	Rt.			10	500	10	2	
5U	397+02	402+33	Lt.	511		20				
6U	397+02	405+00	Lt.	788		10				
7U	396+80	405+00	Rt.	800		10				
TOTALS				3007	40	70	500	10	3	2

ROADWAY

Ref. N°	Station From	Station To	Side	S5-16 R/W Fence L.F.	I-19 G. Rail St. Beam Type "D" L.F.	I-19 G. Rail Deep L.F.	I-19 Temp. G. Rail as per Plan L.F.
1R	401+00	406+00	Rt.	400			
2R	401+00	402+00	Rt.			100	
3R	404+875	405+00	Rt.			15	
4R	402+35	406+00	Lt.				375
5R	E 15+55	E 10+05	Rt.			550	
Totals				400	675	775	

ITEM I-8 DRAINAGE STRUCTURES

Ref. N°	Station	Offset	Std. N° 8 C.B. Each	Std. N° 2-10 Paved Median Inlet Each
2S	397+00	77' Lt.		1
2SA	397+00	19' Lt.	1	
2SB	397+00	19' Rt.	1	
2Q	402+31	77' Lt.		1
TOTALS			2	2

ITEM I-1 STORM SEWER I-2

From	To	12" Class E-1 L.F.	15" Class A-1 M.8.1(b) or M.8.8(b) L.F.	18" Class A-1 M.8.1(b) or M.8.8(b) L.F.	24" Class A-1 M.8.1(b) or M.8.8(b) L.F.	Masonry Class "C" C.Y.
2SB	2SA	38				
2SA	2S			58		
2S	Out				70	0.41
2Q	Out		107			0.26
2A	2S				200	
Totals		38	107	58	270	0.67

STRUCTURES

Ref. N°	Station	Sheet N°	I-1 132" CMP 8-7 Gage Sec. M-6.4(a) Class A-1 L.F.	I-1 36" R.C.P. Sec. M-6.6(a) or M16.8(a) Class A-1 L.F.	I-2 Masonry Class E C.Y.	I-10 Masonry Class C C.Y.	I-10 Dumped Rock Ch. Protection C.Y.	I-10 Riprap as per Plan S.Y.	L-10 Sodding as per Plan S.Y.	E-3 Channel Excavation C.Y.
1-S	401+60	228	294		37		74	373	29	
2-S	405+00	229		256		10	337		15	62
TOTALS			294	256	37	10	411	373	44	62

DRAINAGE

Ref. No.	STATION From	STATION To		L-10 Sod as per plan W + G S.Y.	I-14 Paved Gutter Std. Type 1 L.F.
1D	401+40	402+00	Rt.	20	25
2D	403+50	405+00	Rt.	100	
TOTALS				120	25

Excavation 5852 C.Y. Channel Excavation 8966 C.Y.
Embankment 10695 C.Y. Channel Embankment 1053 C.Y.
Embankment + 10% 11765 C.Y.

397+00 19' Rt.
No. 8C Basin
℄ Grate 719.66
℄ 6" = 717.82
℄ 12" = 717.62

Sta. 397+00 77.5' Lt. No. 1-10 Inlet Cover El. ℄ 15" Inlet 715.00 ℄ 24" Inlet 715.50 ℄ 24" Outlet

Sta. 397+00 19' Lt. No. 8 C. Basin R. Grate 719.66 ℄ 6" 717.36 ℄ 12" 716.80 ℄ 15" 716.30

Sta. 397+00 18' Lt. 24" Outlet ℄ 715.03

Prop. 6" Underdrains @ 38'-8" Rt. & Lt.

Prop. 6" Underdrain @ 79' Lt.

-0.679%

Sta. 402+31 77.5' Lt. No. 1-10 Inlet Cover El. ℄ Inlet 711.50

℄ 718.80 ℄ 717.30 ℄ 718.00 ℄ 712.01 ℄ 715.08 @ +31 ℄ 714.11 @ 108' Rt. ℄ 711.80

4'-6" + 22.45' Rt. 8" Outlet ℄ 707.00

36" Rein. Conc. Pipe Inlet Elev. 701.00 Outlet Elev. 701.00

44.10' 31.30' 161.78' Tack in Hub ℄ Survey? 67°10'36" 130°31'06" 165.08' 38.56' RK. in 4" Elm 34.45' Ref. Pt. Sta. 400+93.46

Sta. 395+00 to Sta. 405+00

REG. NO. DIVISION	STATE	PROJECT		23 / 333
2	OHIO			

FRANKLIN COUNTY
FRA-200-8.04

Franklin Development Co. Limited

Intermediate Anchor Post Assembly 148' Lt. Sta. 407+49

Intermediate Anchor Post Assembly 148' Lt. Sta. 405+00

Intermediate Anchor Post Assembly 148' Rt. Sta. 405+00

Intermediate Anchor Post Assembly 148' Rt. Sta. 411+00

Ramp "E" Sta. 2+84.33 ℄ S.R. 200 Sta. 412+19.52 66' Lt

Ramp "A" Sta. 69+27.02 ℄ S.R. 200 Sta. 412+00 66' Rt

For I-3 Back, See Ramp "E" Sh. No. 143

For Detail of Culvert See Sheet No. 229

Begin Sheet Sta. 405+00

End Sheet Sta. 415+00

RAMP "E"

RAMP "A" 43' TAPER

Riding Academy

Wooded Area

Grass

Path

10' Paved Shoulder

4' Paved Shoulder

℄ Survey S.R. 200

Top of Slope

Ref. Pt. Sta. 409+62.79

150' Sta. 405+00

150' Sta. 415+00

150' Sta. 405+50

250' Sta. 405+50

Pk. in 36" Birch — 88.71'
Tack in Hub — 68.85'
201.95' — 96°43'36"
Survey I.P. — 86°35'00"
207.46' — 68.51'
Pk. in 14" Walnut — 107.08'
Ref. Pt. Sta. 409+62.79

B.M. R.R. Spike in North Side 24" Walnut, 280' Rt. Sta. 411+71 Elev. 731.780

UNDERDRAIN

Ref No	STATION From	STATION To	Side	I-1 (Shallow) 6" CLI-3 Pipe LF	6" CLF-1 Pipe LF	8" CLF-1 Pipe LF	I-1 (Deep) 6" CLI-3 Pipe LF	I-5 6" 60° Wye Ea.	I-5 6" 60 Bend Ea.
1U	E 8+06	E 10+05	Rt	228		10		1	
2U	405+00	406+88	Lt	210	10			1	
3U	405+00	406+88	Rt	199	10				1
4U	AG 2+29	AG 9+27	Rt				698		
5U	E 2+34	E 8+04	Rt				520		
6U	407+02	415+00	Lt	798					
7U	406+32	415+00	Rt	808					
8U	412+20	415+00	Lt				280		
9U	412+00	415+00	Rt				300		
Totals				2243	20	10	1798	2	1

ROADWAY

Ref No	STATION From	STATION To	Side	I-15 G.Rail St.Beam Deep LF	SS-18 P/W Fence Type "D" LF
1R	E 7+25	E 10+05	Rt	215	
2R	405+00	415+00	Lt		1000
3R	405+00	415+00	Rt		1000
4R	405+00	405+25	Rt	12.5	
Totals				227.5	2000

ROADWAY (Con't.)

5R	I-15 Temporary Guard Rail 615 L.F.

DRAINAGE

Ref. No	Station From	Station To	Side	I-1 12" Pipe Sec. M-6.04(B) Cl. A-1 L.F.	I-1 15" Pipe Sec. M-6.04(B) Cl. A-1 L.F.	I-2 Masonry Cl. C C.Y.	I-8 Std. N° 8 C.B. Each	I-10 Backfill C.Y.	L-10 Sodding as per plan W=6' S.Y.	W=7.5' S.Y.	W=12' S.Y.
1D	407+00		Rt	19			1				
2D	407+00		Lt	19	105	0.26	1	0.6			
3D	405+00	407+00	Lt							167	
4D	405+00	406+50	Rt						100		
5D	412+00	415+00	Rt								400
TOTALS				38	105	0.26	2	0.6	100	167	400

Ramp "A" Taper

Station Ramp "A"	Offset Rt. & to Edge Taper	Elev. Rt. Edge Taper
64+00	81.38	714.92
64+50	79.92	714.58
65+00	78.46	714.27
65+50	77.00	713.95
66+00	75.54	713.61
66+50	74.08	713.30
67+00	72.62	712.98
67+50	71.16	712.67
68+00	69.70	712.35
68+50	68.24	712.04
69+00	66.78	711.88
69+27.02	66.00	711.56

Sta 407+00 19' Rt
No. 8 C. Basin
Grate El. 712.87
IE. 4" 710.40
IE. 12" 709.90

Sta 407+00 19' Lt
No. 8 C. Basin
Grate El. 712.87
IE. 6" 710.20
IE. 12" 709.70
IE. 15" 709.55

IE. 712.01
IE. 711.43 @ 100 Lt
IE. 709.97 @ 90° Rt

-0.67%

6" Underdrains @ 38'-9" Rt & Lt (Shallow)
6" Underdrains Rt & Lt (Deep)

IE. 705.22
IE. 703.56

36" Rein. Conc. Pipe
Inlet Elev. 707.00
Outlet Elev. 701.00

+25 124' Lt
8" Outlet
IE. 703.2

+00 124' Lt
15" Outlet
IE. 705.2

Pk. in 36" Birch — 88.71
Tack in Hub — 68.85
201.95' — 96°43'36"
Survey I.P. — 86°35'00"
207.46' — 68.51
Pk. in 14" Walnut — 107.08
Ref. Pt. Sta. 409+62.79

Excavation 97,846 C.Y.
Embankment 14,372 C.Y.
Embankment + 15% 16,528 C.Y.

Sta. 405+00 to Sta. 415+00

FED. NO. PROJECT NO.	STATE	PROJECT	
2	OHIO		

24
333

FRANKLIN COUNTY
FRA ~ 200 ~ 8.04

Franklin Development Co. Limited

Franklin Development Co. Limited

B.M. R.R. Spike in North base 48" Oak, 205' Rt. Sta. 418+17 Elev. 721.604

B.M. Concrete R/W Mon. 30.20' Rt. ℄ S.R. 104 Sta 52+09.88 and 187' Lt Sta. 419+37 Elev. 710.444

See Std. Dwg. I-15 No.6 for Details of Guard Rail & Piers

See Sh. No. 198 for S.R. 104 Details.

See Std. Dwg. I-15 No.5 for Details of Guard Rail and Median Ditch @ Bridges.

Begin Sheet Sta. 415+00

End Sheet Sta. 424+50

Struc. No. FRA200-0894
See Sheet Nos. 289-295
4' Paved Shoulder

See Sh. No. 198 for Structure Data.

10' Paved Shoulder

Ref. Pt. Sta. 419+78.83

Ref. Pt. Sta. 423+65.65

Sta. 420+36.42 S.R. 200

Sta. 50+00.00 S.R. 104

Sta. 422+95.265

Sciota Big Run

Corner Post Assembly 148' Lt. Sta. 424+16

24" I-1 See Sheet No. 25

Intermediate Anchor Post Assembly 148' Rt. Sta. 417+00

Sodded Gutter (Typ.) See Sheet No. 217

15" I-1 See Sheet No. 198

18" I-1 See Sheet No. 198

Top of Slope

Grass

Field

Ruins

Gravel Drive

Abut. Connection

American Aggregates Corp.

Fraid Road To be abandoned

Fraid To be Abandoned Field

Special Ditch see Gross Sections

End Apron Slab Sta. 422+25.87

110' Lt. S.R. 104 Sta. 48+94.56
150' Rt. S.R. 200 Sta. 420+09.53

℄ Survey S.R. 200 S 53°51'07" E

℄ Survey S.R. 104 S 52°09'05" E

126°01'03"

+88 ℄ 703.94

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 Shallow 6" Cl. I-3 Pipe L.F.	I-1 Shallow 6" Cl. F-1 Pipe L.F.	I-1 Deep 6" Cl. I-3 Pipe L.F.	I-5 6" 60° Bend Each
1U	415+00	424+50	Lt.			950	
2U	415+00	416+88	Lt.	199	10		1
3U	415+00	416+88	Rt.	199	10		1
4U	415+00	424+50	Rt.			950	
5U	416+92	424+50	Lt.	758			
6U	416+92	424+50	Rt.	758			
Total				1914	20	1900	2

ROADWAY

Station From	Station To		I-15 G. Rail St. Beam Deep L.F.	I-15 G. Rail St. Beam Barrier L.F.	56-18 R/W Fence Type "D" L.F.
1R 419+47.5	424+50	Lt.	502.5		
2R 422+96	424+50	Rt.	154		
3R 422+43	424+50		57	150	
4R 419+77	421+27	Rt.	150		
5R 415+00	419+02	Lt.			402
6R 419+48	424+50	Lt.			531
7R 415+00	421+16	Rt.			616
8R 421+62	424+50	Rt.			288
Total			863.5	150	1837

DRAINAGE

Ref. No.	Station From	Station To	Side	I-1 12" Pipe Cl. E-1 L.F.	I-1 15" Pipe Cl. E-1 L.F.	I-1 15" N-6.6(6) or 6.8(6) Cl. A-1 L.F.	I-2 Masonry Cl. C C.Y.	I-8 Std. No. 8 C.B. Each	I-10 D. Rock Channel Protection C.Y.	L-10 Sodding as per plan W=6' S.Y.	W=9' S.Y.	W=12' S.Y.	W=18' S.Y.	I-14 Paved Gutter Std. Type 1 L.F.
1D	417+00		Rt.	19				1						
2D	417+00		Lt.	19				1						
3D	417+00	422+00	Lt.		500									
4D	422+00		Rt.	19				1						
5D	422+00		Lt.	19		82	0.26	1	0.8					
6D	415+00	420+65	Rt.									753		
7D	420+00	422+00	Lt.							137				
8D	420+65	424+50	Rt.						1.9				275	214
9D	422+00	424+10	Lt.								210			
Totals				76	500	82	0.26	4	2.7	137	210	753	275	214

Sta. 417+00 19' Rt.
No. 8 Catch Basin
Grate Elev. 706.08
℄ 6" 703.65
℄ 12" 703.15

Sta. 417+00 19' Lt.
No. 8 Catch Basin
Grate Elev. 706.08
℄ 6" 703.45
℄ 12" 702.95
℄ 15" 702.70

Sta. 422+00 19' Rt.
No. 8 Catch Basin
Grate Elev. 702.99
℄ 701.16

Sta. 422+00 19' Lt.
No. 8 Catch Basin
Grate Elev. 702.99
℄ 12" 700.76
℄ 15" 700.51

PVC 420+32
Elev. 706.10

PVI 421+32
Elev. 705.42

PVT 422+32
Elev. 705.17

200' VC

-0.679%

-0.25%

Rt. Med. Ditch 0.32%

Lt. Med. Ditch 1.70%

℄ 705.22

℄ 703.56

℄ 701.61

℄ 699.95

℄ 703.15

℄ 704.00 @ +45

℄ 703.80

℄ 700.09 @ +75

℄ 700.13

℄ 698.47

6" Underdrains @ 38'-8" Rt. & Lt (Shallow)

6" Underdrains @ 69' Rt. & Lt. (Deep)

+00 100' Lt. 15" Outlet ℄ 694.6

P.K. in Guard Rail Post
39.33
P.K. in Lt. Edge Pvmt.
64.34
P.K. in ℄ Pvmt.
24.95
℄ Survey
115°01'30"
86°10'00"
177.09' Tack in Hub
77.73'
69.80' P.K. in 6" Tree
Ref. Point Sta. 419+78.83

165.03'
181.55'
Tack in Hub
℄ Survey
180°
174.66'
Tack in Hub
52.54'
83.41' P.K. in old Fence Post
Ref. Pt. Sta. 423+65.65

Excavation 68,955 C.Y.
Embankment 21,466 C.Y.
Embankment x 15% 24,686 C.Y.

Sta. 415+00 to Sta. 424+50

FRANKLIN COUNTY
FRA-200-8.04

Granular Material
Begin levee embankment with granular material as shown on the appropriate cross section

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-5 6"x6" Tee Each	I-5 6"x6" 60° Wye Each	I-1 Shallow 6" Cl. Pipe L.F.	I-1 Shallow 6" Cl. Pipe L.F.	I-1 Shallow 8" Cl. Pipe L.F.
1U	424+50	424+85	Lt.		1	48		10
2U	424+50	425+04	Lt.	1		84	10	
3U	424+50	425+50	Rt.	1		127	10	
4U	424+50	425+85	Rt.	1		154		10
5U	426+35	435+00	Lt.			865		
6U	426+53	435+00	Lt.			847		
7U	427+45	435+00	Rt.			755		
8U	427+78	435+00	Rt.			722		
Totals				3	1	3402	20	20

ROADWAY

Ref. No.	Station From	Station To	Side	I-15 G.Rail Steel Beam Deep L.F.	I-7 G.Rail Steel Beam Barrier L.F.	S5-18 13" Reinf. Con. App. Slab S.Y.	R/W Fence Type "D" L.F.
1R	424+50	424+85	Lt.	35			
2R	424+50	425+43	Rt.	93			
3R	424+50	425+96	Rt.	146			
4R	426+22	435+00	Lt.	878			
5R	426+48	429+47		150	150		
6R	427+85	435+00	Rt.				810
7R	424+72.93	424+97.93	Lt.			66.7	
8R	425+43.39	425+68.39	Rt.			66.7	
9R	426+39.76	426+64.76	Lt.			66.7	
10R	427+57.11	427+82.11	Rt.			66.7	
11R	424+50	435+00	Lt.				876
12R	424+50	426+03	Rt.				180
Totals				1302	150	266.8	1866

DRAINAGE

Ref. No.	Station From	Station To	Side	I-1 12" Pipe Cl. E-1 L.F.	I-1 24" Pipe Cl. D-1 L.F.	I-2 Masonry Cl. "C" C.Y.	I-5 Flap Gate for 24" Pipe Each	I-8 Std. No. 8 C.B. Each	I-10 Dump Rock Fill Type A C.Y.	L-10 Sodding as per plan W-8' S.Y.	L-10 Sodding as per plan W-16' S.Y.	L-120 Jute Matting S.Y.
1D	423+92	424+56	Lt.		70	1.81	1		5.5		22.3	
2D	424+90	425+84	Rt.									
3D	424+75	425+21	Lt.	56		0.23		1				
4D	425+84	426+30	Rt.		67	1.81	1					
5D	427+19	427+50	Rt.	52		0.23		1				
6D	433+25	435+00	Rt.									155
7D	434+00	434+75	Lt.							7.5		
TOTALS				108	137	4.08	2	2	5.5	7.5	22.3	155

STRUCTURES

Ref. No.	Station	See Sheet No.	I-1 24" M-64.1(a) Cl. A-1 L.F.	I-1 27" M-64.1(a) or 66.1(c) Cl. A-1 L.F.	I-2 Masonry Cl. "C" C.Y.	I-5 Flap Gate for 27" Pipe Each	I-8 Std. No. 5 C.B. Each	I-10 Dump Rock Channel Protection C.Y.	L-10 Sod as per plan S.Y.
15	434+75	236	227	79	7.07	1	1	7.5	8

Struc. No. FRA-200-0904 Lt. & Rt.
See Sheet Nos. 296-310

American Aggregates Corp.

See Std. Dwg. I-15 No. 5 for Details of Guard Rail & Median Ditch at Bridges.

For Culvert Details See Sheet No. 236

Intermediate Anchor Post Assembly 148' Lt. Sta. 430+30

Corner Post Assembly 148' Lt. Sta 425+95

Corner Post Assembly 85' Lt. Sta 426+35

Corner Post Assembly 148' Rt. Sta 425+40

Begin Appr. Slab Sta 426+39.76

End Appr. Slab Sta 425+68.39

Begin Appr. Slab Sta 427+57.11

End Appr. Slab Sta 424+97.93

Sta 424+50 Begin Sheet

Sta 435+00 End Sheet

Top of Slope

Special Ditch See K-sections

Berch

10' Paved Shoulder

4' Paved Shoulder

16' Paved Shoulder

℄ Survey S 2° E 200'

S 53°51'07" E

Sta. 426+04 ℄ S. 2° E. 200'

Sta. 430+00 ℄ Channel

105' Sta. 430+00

Intermediate Anchor Post Assembly 103' Rt. Sta. 430+00

Intermediate Anchor Post Assembly 110' Rt. Sta. 429+30

Proposed Channel Relocation

Existing Levee

Elev. 703.0

703.0 Levee

Top of New Levee

Dirt Field Road To Be Abandoned

Dirt Field Road

Existing Channel Bottom

SCIOTO BIG RUN

Stream Crossing Type 2 See Std. Dwg. I-5

Wooded Area

Field

Abut. Conn.

Abut. Conn.

Sta. 425+75

Sta. 425+40

Sta. 424+50

Sta. 424+56

Sta. 428+00

Sta. 432+35

Sta. 435+00

150'

105'

330'

Westbound Bridge Limits

Eastbound Bridge Limits

Computed 88000 cfs. Flood Elev. 701

Lt. Median Ditch @ 1.3%

Rt. Median @ 1.44%

Jan. 1959 (82200 cfs.) Flood Elev. 699.5

Computed 50 Year Flood Elev. 697.6

5-10 Year Flood Elev. 696.0

Existing Ground

Low Water Elev. 681.0

6" Underdrains (Shallow)

Sta. 434+75 122' Rt. No. 5 C.B. Grate Elev. 698.7 Lt. 24" 683.49 Rt. 27" 683.24

Sta. 435+00 38.67' & 69' Rt. & Lt. ℄ 697.51

24" R.C.P. ℄ 684.69

Sta. 424+92 121' Lt. ℄ 24" 689.54

Sta. 424+56 161' Lt. ℄ 24" 688.84

Sta. 425+40 8' Outlet ℄ 695.00

Sta. 424+75 8' C.B. ℄ Grate 699.92 ℄ 6" I-3 669.58 ℄ C.B. 698.08

8" Outlet ℄ 698.00

12" Outlet ℄ 697.52

12" Outlet ℄ 696.88

℄ 24" 690.63

℄ 24" 690.00

427+50 ℄ 8' C.B. ℄ Grate 699.24 ℄ C.B. 697.40'

Elev. 679.0

Elev. 679.0

Normal

Normal

Normal

Normal

PROPOSED STRUCTURE FRA-200-0904 Lt. & Rt.

Type: Continuous steel beam with reinforced concrete deck and substructure
Spans: Left - 42', 52'-6", 42'
Right - 56', 70', 56'
Roadway: 42'-0" f/f of parapet
Load Frequency: CF 2000 (57) (Adequate for AASHO alternate loading)
Skew: Left - 32°30" R.F.
Right - 48°00" R.F.
Wearing Surface: 1" monolithic concrete
Approach Slabs: AS-1-54 (25' long)
Alignment: Tangent

Excavation 941 C.Y.
Embankment 80535 C.Y.
Embankment +18% 92915. C.Y.

Sta. 424+50 to Sta. 435+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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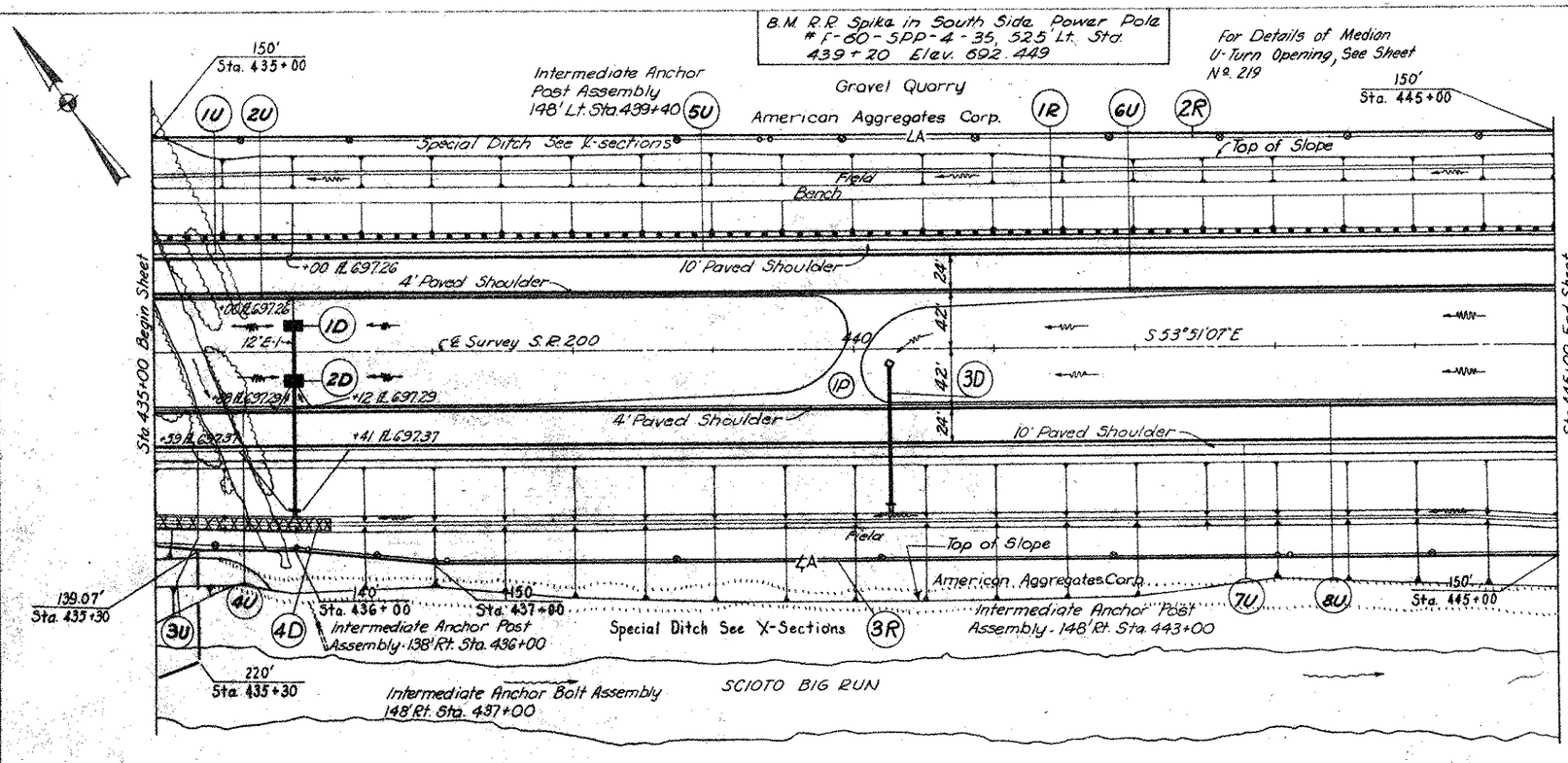
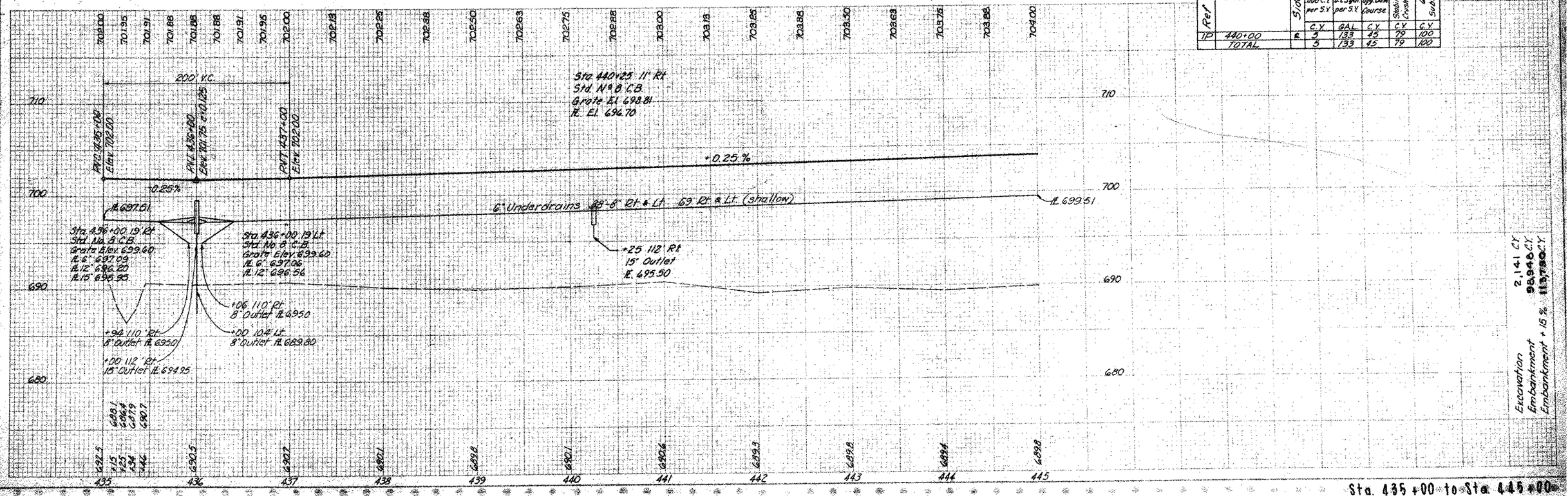
FRANKLIN COUNTY
FRA-200-8.04

B.M. R.R. Spike in South Side Power Pole #F-60-SPP-4-35, 525' Lt. Sta. 439+20 Elev. 692.449

For Details of Median U-Turn Opening, See Sheet No. 219





DRAINAGE

Ref. No.	Station From	Station To	Side	I-1 12" Pipe CI. E-1 LF	I-1 15" Pipe M-66(a) or 68(b) CI. A-1 LF	I-2 Masonry CI. C CY	I-8 Std. No. 8 C.B. Type "A" Each	I-10 D. Rock Fill CY	L-180 Jute Matting SY
1D	436+00		Lt.	19			1		
2D	436+00		Rt.	19	93	0.26	1	0.8	
3D	440+25		Rt.		101	0.26	1	0.8	
4D	435+00	436+25	Rt.						111
	Total			38	194	0.52	3	1.60	111

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 Shallow 6" Pipe CI. I-3 LF	I-1 8" Pipe CI. F-1 LF	I-1 8" Pipe M-66(a) CI. F-1 LF	I-5 6"x6" Tee Each	I-5 6"x6" 60° Wye Each
1U	435+00	436+00	Lt.	126		10	1	
2U	435+00	436+00	Lt.	109	10		1	
3U	435+00	435+98	Rt.	131		10		1
4U	435+00	435+98	Rt.	110	10			1
5U	436+00	445+00	Lt.	900				
6U	436+00	445+00	Lt.	900				
7U	436+02	445+00	Rt.	931		10		1
8U	436+02	445+00	Rt.	910	10			1
	Total			4117	30	30	2	4

ROADWAY

Ref. No.	Station From	Station To	Side	I-15 6" Rail St. Beam Deep L.F.	35-18 12W Fence Type "D" L.F.
1R	435+00	445+00	Lt.	1000	
2R	435+00	445+00	Lt.		1000
3R	435+00	445+00	Rt.		1000
	Total			1000	2000

PAVEMENT

Ref. No.	STATION	Side	T-3 Bit. Surf. Treat. 0.08 C.Y. per S.Y. C.Y.	T-3 Bit. Surf. Treat. @ 1.5 gal. per S.Y. GAL.	B-21 3" Water proofed Agg. Base Course C.Y.	I-18 Stabilized Crushed Agg. C.Y.	I-22 6" Subbase C.Y.
1P	440+00	℄	5	133	45	79	100
	TOTAL		5	133	45	79	100

Excavation 2,141 C.Y.
Embankment 98,948 C.Y.
Embankment + 15% 113,790 C.Y.

Sta. 435+00 to Sta. 445+00

FRANKLIN COUNTY
FRA-200-8.04

I-270-4(4)99

END PROJECT
S.L.M. 9.46

150'
Sta. 445+00
American Aggregates Corp.

Intermediate Anchor Post Assembly
148' Lt. Sta. 446+00

End Post Assembly
148' Lt.
Sta. 449+00

150' Sta. 448+48

150' Sta. 450+99.586

Wooded Area

Field

Top of Slope

Bench

6' Paved Shoulder

10' Paved Shoulder

℄ Survey S.R. 200

S 53°51'07"E

END PAVING
STA. 448+00

450
End Apron Slab
Sta. 450+49.27

P/L

Sta. 445+00 Begin Sheet

Sta. 455+00 End Sheet

Dumped Rock Channel Protection

SCIOTO RIVER

150' Sta. 451+53.88

145' Sta. 452+42

Wooded Area Island

END WORK
STA. 449+50

150' Sta. 445+00

American Aggregates Corp.

Field

Top of Slope
End Post Assembly
148' Rt. Sta. 449+00

150' Sta. 449+00

SCIOTO BIG RUN

Notes
1. Federal Marker will be furnished and erected on the left by the State of Ohio before acceptance of this project.

2. Typical Section adjacent to end of project is identical to that shown on Sheet No. 5 for Sta. 448+00 (Typical Section "A").

UNDERDRAINS				
Ref. No.	STATION FROM	STATION TO	Side	6" Cl I-5 Pipe L.F.
1U	445+00	448+50	Lt	350
2U	445+00	448+50	Lt	350
3U	445+00	448+50	Rt	350
4U	445+00	448+50	Rt	350
TOTALS				1400

ROADWAY					
Ref. No.	STATION FROM	STATION TO	Side	F-15 6 Rail St Beam Deep Type "D" L.F.	SS-18 R/W Fence L.F.
1R	448+00	447+27	Lt	297	
2R	445+00	449+00	Rt		400
3R	445+00	449+00	Lt		400
Total				297	800

NOT A PART OF THIS PROJECT

Bridge Limits

Sta. 450+40.27

PVC. Sta. 452+00
Elev. 705.75

PVI. Sta. 454+00
Elev. 706.25

PVT. Sta. 456+00
Elev. 705.75

+0.25%

Temporarily Plug U'drains:
R. 699.51
6" Underdrains 38'-8" Rt. & Lt., 69'-0" Rt. & Lt. Shallow
+50
R. 700.39

4:1

Existing Ground

This area may be non-performed under this project and be constructed with project to the east if construction schedules so dictate.
Note: Earthwork Quantities for this area are included in this project.

Dumped Rock Channel Protection I-10.07

2:1

Elev. 680.71

High Water
Elev. 699.50
Jan. 22-1959

50 Year High Water
Elev. 697.60

Elev. 679.7

Elev. 676.7

710
700
690
680

705.00 705.19 705.25 705.38 705.50 705.63 705.75 705.81 705.86 705.90 705.94 705.96 705.99 706.00 706.00 706.00 705.99 705.96 705.94

691.2 686.3 +94 686.3 703.5 691.6 692.3 +17
689.8 690.5 686.7 692.2 691.0 +59 +63 689.8 +40 +67

445 446 447 448 449 450 451 452 453 454 455

FUTURE STRUCTURE
FRA-200-0952 Rt. & Lt.

Type: Continuous steel girder with reinforced concrete deck and substructure
Spans: 88.0', 110.0', 110.0', 110.0', 110.0', 110.0', 88.0'
¾ Bearings
Roadway: 42'-0" t/t parapets.
Load Frequency: C.F. 2000 (57) Adequate for AASHO alternate loading
Skew 25° Right Forward
Wearing Surface: 1" monolithic concrete
Approach Slabs: AS-1-54 25' long
Alignment: Tangent

Excavation	241 C.Y.
Embankment	46,538 C.Y.
Embankment +15%	53,519 C.Y.

Sta. 445+00 to Sta. 455+00

FED. RD. DIVISION	STATE	PROJECT		28 / 333
2	OHIO			

FRANKLIN COUNTY
FRA-200-8.04

Samuel B. Hartman Estate

Channel Curve Data
P.I. Sta. 457+00 276.57' Lt.
Δ = 43°-30'
D = 38°-11'-50"
R = 150.00'
L = 190.0'
T = 99.94

Channel Curve Data
P.I. Sta. 460+00 146' Lt.
Δ = 24°-00'
D = 38°-11'-50"
R = 150.00'
L = 62.85'
T = 31.86'

P.I. 492+53.27
Δ = 32°28'08"
D = 00°30'00"
E = 475.91'
L = 6493.778'
T = 3336.664'
R = 11459.156'
S = 0.0156 ft. per ft. width

Curve Data
Δ = 17°
D = 3°
R = 1909.86'
T = 290.7'

Channel Change

Intermediate Anchor Post Assembly 145' Lt. 459+00

End Post Assembly 148' Lt. 457+20 +92 ℄ 700.90

Proposed Channel Relocation

Intermediate Anchor Post Assembly 113' Lt. 460+00

Intermediate Anchor Post Assembly 108' Lt. 463+00

10' Paved Shoulder

Cultivated Field

FRA-270S-18.01 L

FRA-270S-18.01 R

Tangent

Ref. Pt. Sta. 455+49.05

S 85°-61'-01" E

Begin Appr. Slab Sta. 457+71.24

+00 ℄ 699.76

+92 ℄ 700.77

+96 ℄ 700.74

P.C. Sta. 459+19.61

460

+80 ℄ 699.78

+12 ℄ 699.78

4' Paved Shoulder

℄ Survey S.R. 200 D = 0°30'

+70 ℄ 699.82

+30 ℄ 699.82

10' Paved Shoulder

Intermediate Anchor Post Assembly 113' Rt. 464+66

Sta. 455+00 Begin Sheet

Sta. 465+00 End Sheet

Hub
Hub
Hub
106°56'3"
68°03'0"
Hub
River
Scioto
S.R. 200
56.89' 55.56' 58.20'
56.45' 58.18' 202.98'
PK in 12" Buckeye
Ref. Pt. 455+49.05

Channel Curve Data
Δ = 26°
D = 8°
R = 716.20'
T = 165.35'

Structure № FRA-270-0952 Rt. & Lt.

Bench

Proposed Channel Change

End Post Assembly 118' Rt. 456+20

Intermediate Anchor Post Assembly 118' Lt. 459+19.61

Samuel B. Hartman Estate

Wooded Area

SCIOTO RIVER

B.M. R.R. spike in N.W. side of 36" Maple 367' Rt. Sta. 457+00 Elev. 694.006

Cultivated Field

See Standard Drawing I-15 No. 5 for details of Guard Rail and Median Ditch at Bridges.

NOT A PART OF THIS PROJECT

Bridge Limits

Sta. 461+00 18' Rt. № 6 S. Basin Grate El. 702.11 R. 6" - 699.30 R. 12" - 698.80 R. 15" - 698.55

Sta. 462+00 19' Lt. № 6 S. Basin Grate El. 702.68 R. 6" - 699.50 R. 12" - 699.00

P.V.I. Sta. 461+00 Elev. 704.50

P.V.T. Sta. 463+00 Elev. 704.55

100' V.C.

Elev. 704.55

-0.25%

+0.29%

Rt. Median Ditch 1.29%

+43 ℄ 703.43

6" Underdrains (Shallow)

P.V.T. Sta. 456+49 Elev. 705.16

High Water El. 699.5 Jan. 22, 1959

50 Yr. High Water Elev. 697.6

+75 25' Lt. 12" Outlet ℄ 695.0

+00 107' Lt. 8" Outlet ℄ 699.60

+06 108' Rt. 8" Outlet ℄ 699.00

+84 108' Rt. 8" Outlet ℄ 699.00

+00 115' Rt. 15" Outlet ℄ 687.00

Existing Ground

Dumped Rock Channel Protection: T = 10.0'

℄ 682.4

Relocated Channel Lt. S = 0.0005 ft/ft.

Relocated Channel Rt. S = 0.001 ft/ft.

℄ 681.0

℄ 680.7

℄ 679.05

℄ 682.7

℄ 690.05

Sta. 455+00 to Sta. 465+00

SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SECTIONS: END WIDTH 50 TOP

E 20 40 60 80 100 120 140 160 180 200 220 240

9B — E 735.45 — 24" Class E-1 — S=0.005 — 27" Class A-1 M-6.6(a) or 6.8(b) — 737.35 S=0.0007
374+00 752.7
Sta 373+80
Std #8 C.B
℄ Grate 735.12
℄ Inlet 732.11
℄ Outlet 731.86

9A — S=0.007 — 27" Class M-6.6(a) or 6.8(b)
Sta 373+90
Std #2-10 Inlet
℄ Grate 736.84
℄ Inlet 731.58
℄ Outlet 731.58

9 — E 736.15 — 2:1
Sta 374+00
Std #2-4 C.B
℄ Grate 735.90
℄ Inlet 731.36 for 27" Pipe
℄ Outlet 729.64 for 42" Pipe
℄ Inlet 729.64 for 42 Pipe
42" Class E-1 @ .0052 to the East

Match to Ramp "A" Sta 27+50 @ 102°
Match to Ramp "A" Sta 27+50 @ 150° Rt.
Ramp "D" Sta 20+75 @ 152° Lt.

738.23
373+00
752.6
E 736.13
2627
BEGIN FULL GRADING STA 373+00
BEGIN PROJECT STA 373+00
E 736.83
42" pipe

El. 743.23 — Not a Part of This Project
738.57
372+50
754.0
E 736.47
E 737.17
42" pipe

El. 748.23 — Not a Part of This Project
738.91
372+00
754.4
E 736.81
E 737.51
42" pipe

El 753.23 — Not a Part of This Project
739.25
371+50
755.3
E 737.15
E 737.85
42" pipe
BEGIN WORK STA 371+32
For Computation of Earthwork
Take Sta. 371+32 as Zero Section

Match Line See Sheet No. 200
Match Line See Sheet No. 200
Match Line See Sheet No. 200

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	2188	61		
			8223	113
	2252	0		
			7006	0

102
1017
81
2627
201

S.R. 200 X-Sections Sta. 371+50 to Sta. 374+00 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
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SEEDING

END WIDTH	SQ. YDS.
72	933
96	1295
36	3654

Match to Ramp "A" Sta. 24+00 @ 45° Rt.

Match to Ramp "A" Sta. 24+00 @ 148' Rt.
Ramp "C" Sta. 7+50 @ 81' Lt.

Match to Ramp "C" Sta. 8+50 @ 72' Rt.

Match to Ramp "C" Sta. 8+50 @ 30' Lt.
Sheet No.

Ramp "C" Ref. Only

℄ 746.3

Ramp "C" Ref. Only

℄ 744.5 ℄ 745.0

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1995	0		
		7658	0
2140	0		
		6658	0
		0	0

℄

9E
E 736.15
Sta. 373+50
Std. # 5 C.B.
℄ 736.15
℄ Outlet ℄ Inlet = 732.72

9D
24" Class A-1 M-6.6 (a) or 6.8 (b)
S=0.003
24" Class A-1 M-6.6 (a) or 6.8 (b)
S=0.0045
Sta. 373+60
Std. # 2-10 Inlet
℄ 736.76 Throat
℄ 732.61 Inlet ℄ Outlet

9C
E 735.45
24" Class E-1
737.55
374+00
S=0.007
732.7
Sta. 373+70
Std. # B.C.B.
℄ 735.12
℄ In. = 732.36 ℄ Out. = 732.36

℄ 736.83

℄ 736.18
738.23
373+00
733.6

Begin Full Grading : 373+00
BEGIN PROJECT 373+00

24" pipe

2:1

El. 743.23
E 737.17
Not a Part of This Project
738.57
372+50
754.0
E 736.47

24" pipe

2:1

El. 748.23
E 737.51
Not a Part of This Project
738.91
372+00
754.4
E 736.81

24" pipe

2:1

El. 753.23
E 737.85
Not a Part of This Project
739.25
371+50
756.3
E 737.15

24" pipe

For Computation of Earthwork
Take Sta. 371+32 as Zero Section
BEGIN WORK STA. 371+32

S.R. 200 X-Sections Sta. 371+50 to Sta. 374+00 Lt.

FRANKLIN COUNTY
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E 20 40 60 80 100 120 140 160 180 200 220 240

| | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
182	1350
122	
141	
1250	
84	
61	
867	
72	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			3039
			1028
			2484
			8567
			2142
			7656
			1992
			7304
			1935

Match to Ramp 'B' 12+50 @ 180' Lt.

Match to Ramp 'B' 13+30 @ 65' Lt.
Match to Ramp 'A' 23+00 @ 58' Lt.

Match to Ramp 'A' 24+00 @ 58'

Match to Ramp 'B' 12+50 @ 335' Lt.

To C.B. #13A
See Ramp 'B'
X-Sections

To C.B. #15A
See Ramp 'B'
X-Sections

See Sheet 16B
For Extension

Ref. Only

Std. #3 C.B.
E. Grate 731.50
E. Inlet 21" - 726.47
E. Inlet 15" - 725.10
E. Outlet 27" - 724.10

21" pipe

2:1

E 730.5

E 731.75

E 734.79

E 735.47

E 732.73

E 733.41

E 734.09

E 734.77

734.89
378+00
751.4

735.31
377+00
751.7

736.19
376+00
751.8

736.87
375+00
750.6

Sta 374+00

S.R. 200 X-Sections Sta. 375+00 to Sta. 378+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		380+70				
147		746.2				
			750	1912	22	
						154
			740	2250	0	
						4076
			750	2154	0	
						3999
			750	2165	0	
						4096
			750	2259	0	
						6543
			Sta. 378+00	2354	0	

S.R. 200 X-Sections Sta. 379+00 to Sta. 380+70 Rt.

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING			END AREA		VOLUME	
SIDE	SQ. YDS.		CUT	FILL	CUT	FILL
		20 ℄				
152		740	22.67	0		
	388	733.01 380+70				
		15" Class E-1 S=.005				
152		Std# 8 C.B. ℄ Grate 730.54 750 ℄ C.B 727.88			1036	0
	750					
	740					
	650	733.14 380+50 747.5	23.11	0		
					4340	0
154	750					
	740					
	858	733.48 380+00 747.3	23.70	0		
155	750				4525	0
	740					
	903	733.82 379+50 748.0	25.11	0		
	760				4775	0
170	750					
	740	734.16 379+00 750.4	26.48	0		
	1956				10525	0
182	Sta. 378+00				3033	0

Match Line to 487+50 Lt. I-71

Match Line to 487+50 Lt. I-71

Match Line to 487+50 Lt. I-71

Match Line to 487+50 Lt. I-71

2:1

(16) E. 731.86
Std. #5 C.B.
E. Grate 731.61
E. Inlet 722.95 - 27" pipe
E. Outlet 722.70 - 30" pipe
E. Inlet 722.76 - 15" pipe

(16A)
15" Class A-1 M-64.1(a) or 48(b) S=.005
Std. #2-10 Inlet
E. Outlet 728.01
E. Grate 731.80

E. 731.99
27" Pipe

E. 732.33
27" Pipe

E. 732.67
27" Pipe

E. 732.97
27" Pipe

E. 731.04

E. 731.38

E. 731.72

E. 732.08

Sta. 378+00 10 8 40 20

S.R. 200 X-Sections Sta. 379+00 to Sta. 380+70 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
159		750				
		740				
177		732.12				
		382+00		2942	34	
		751.4				
		℄ 730.02				
		℄ 730.72			1062	18
		48" pipe				
159		750				
		740				
736		732.19				
		381+90		2733	61	
		751.3				
		℄ 730.09				
		℄ 730.79			4779	47
		48" Pipe				
156		750				
46		740				
145		732.47				
		381+48		3351	0	
		754.3				
		℄ 730.37				
		℄ 731.07			5369	0
		48" Pipe				
46		750				
152		740				
497		732.80				
		381+00		2689	0	
		752.1				
		℄ 730.70				
		℄ 731.40			2556	
		48" Pipe				
147		Sta 380+70		Sta 380+70	1912	22

Match Line to 48 Rt. I-71

Match Line to 483+00 Rt. I-71

Match Line to 483+00 Lt. I-71

Match Line to 483+00 Lt. I-71

Rear Abutment
Bridge No. FRA-200-0819

S.R. 200 X-Sections Sta. 381+00 to Sta. 382+00 R

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
140	157
143	674
166	44
235	44
145	197
152	

Sta. 380+72

Match Line To 487+50 Rt. I-71

Match Line To 487+50 Lt. I-71

Match Line To 487+50 Lt. I-71

15" Class F-1 Pipe
S 0.005
Sta 381+36
Std.# B C B
E 746.20
E 744.00 Outlet

15" - 30" Bend Class F-1

Forward Abutment
Bridge No.
FRA-200-0819

Forward Abutment
Bridge No.
FRA-200-0819

30" pipe

30" pipe

30" pipe

E. 730.97

E. 731.04

E. 731.32

E. 731.65

Sta 381+94
E. Inlet 722.42 - 30" pipe
E. Outlet 722.42 - 30" pipe
E. Inlet 724.10 - 15" pipe
E. Grate 730.79

2:1

2:1

2:1

2:1

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	2822		120
		1025	45
	2713		124
		4798	96
	3458		0
		5638	0
	2890		0
		2865	0
	2267		0

E 730.02
732.12
382+00
751.4

E 730.09
732.19
381+90
751.3

E 730.37
732.47
381+48
754.3

E 730.70
732.80
381+00
752.1

Sta. 380+70

S.R. 200 X-Sections Sta. 381+00 to Sta. 382+00 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
160	149
121	42
125	
118	169
46	547
153	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	1924.550		
			795.84
	2090.20		
			4286.16
	3335.0		
			2921.0
	3462.0		
			3795.20
	2924.34		

Sta. 382+00

Match to F-71 Sta. 483+00 Rt.

Match to F-71 Sta. 483+00 Rt.

Match to F-71 Sta. 483+00 Rt.

382+55
731.79
734.1
℄ 729.65
48" Pipe
℄ 730.35
Rear Abutment
Bridge No. FRA-200-0822

382+32
731.90
734.1
℄ 729.80
48" Pipe
℄ 730.50
Rear Abutment
Bridge No. FRA 200-0822

383+05
731.41
736.1
℄ 729.31
48" Pipe
℄ 730.1

382+97
731.46
738.0
℄ 729.36
48" Pipe
℄ 730.06

2:1

Sta. 382+00

S.R. 200 X-Sections Sta. 382+32 to Sta. 383+05 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
138	44
	39
	44
205	
	44
112	
	44
142	
499	
140	Sta. 382+00

Match Line to Rt. I-71

Match Line to 487+50 Rt. I-71

Match Line to 487+50 Rt. I-71

Match Line to 487+50 Rt. I-71

Forward Abutment Bridge No. FRA-200-0822

Forward Abutment Bridge No. FRA-200-0822

Forward Abutment Bridge No. FRA-200-0822

30" pipe

30" pipe

30" pipe

30" pipe

2:1

2:1

2:1

2:1

E. 730.26

E. 730.31

E. 730.61

E. 730.75

E. 729.31

E. 729.36

E. 729.65

E. 729.80

731.41
383+05
746.1

731.46
382+97
748.0

731.75
382+55
754.1

731.90
382+32
754.1

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
2957	0		
			716 0
2473	0		
			4622 0
3469	0		
			2933 0
3417	0		
			3637 71
		2822	120

S.R. 200 X-Sections Sta. 382+32 to Sta. 383+05 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
173	
919	
158	
889	
160	
889	
160	
100	

END AREAS CUT	END AREAS FILL	VOLUMES CUT	VOLUMES FILL
		2493	0
			4478
		2338	0
			4395
		2408	0
			4556
		2512	0
			3697
		1924	550

730.08
385+00
746.3
℄ 727.98

730.42
384+50
747.5
℄ 728.32

730.76
384+00
747.9
℄ 728.66

731.10
383+50
747.1
℄ 729.0

Ramp 'G'

Sta 385+00 119' Rt
Std. 1-A M.H.
E. Inlet 720.47 - 48" pipe
E. Outlet 720.47 - 48" pipe
E. Inlet 723.30 - 15" pipe

Ditch
℄ 729

'G' Sta. 31+25 Rt.
Std.# 6 C.B.
E. 726.54
E. Outlet 723.50

15" Class E-I

2:1

E. 726.57

48" pipe

E. 729.30

48" pipe

E. 729.67

48" pipe

Transition to Typical Ramp Side Ditch Section

Match to 'I-71' Sta. 383+00 Rt.

Match to 'I-71' Sta. 383+00.28 Rt.

Sta 383+05

℄ 10 20 40 60 80 100 120 140 160 180 200 220 240

S.R.700 X-Sections Sta. 385+50 to Sta. 385+00 Rt.

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
159	850
147	786
134	717
137	688
138	

Match to I-71 Sta 487+46

Match to I-71 Sta. 387+50 @ 206 Rt.

Match Line I-71 487+50 Rt

Sta 383+05

2:1

E 728.68

30" pipe

E 729.02

30" pipe

E 729.36

18

15" Class A-1 M-6.6(a) or 6.8(b) S=.005

Std. #5 C.B.
E. Inlet 721.95 - 30" pipe
E. Outlet 721.95 - 30" pipe
E. Grate 729.11
E. Inlet 725.30 - 15" pipe

18A

Std. #2-10 Inlet
E. Grate 729.51
E. Outlet 725.50

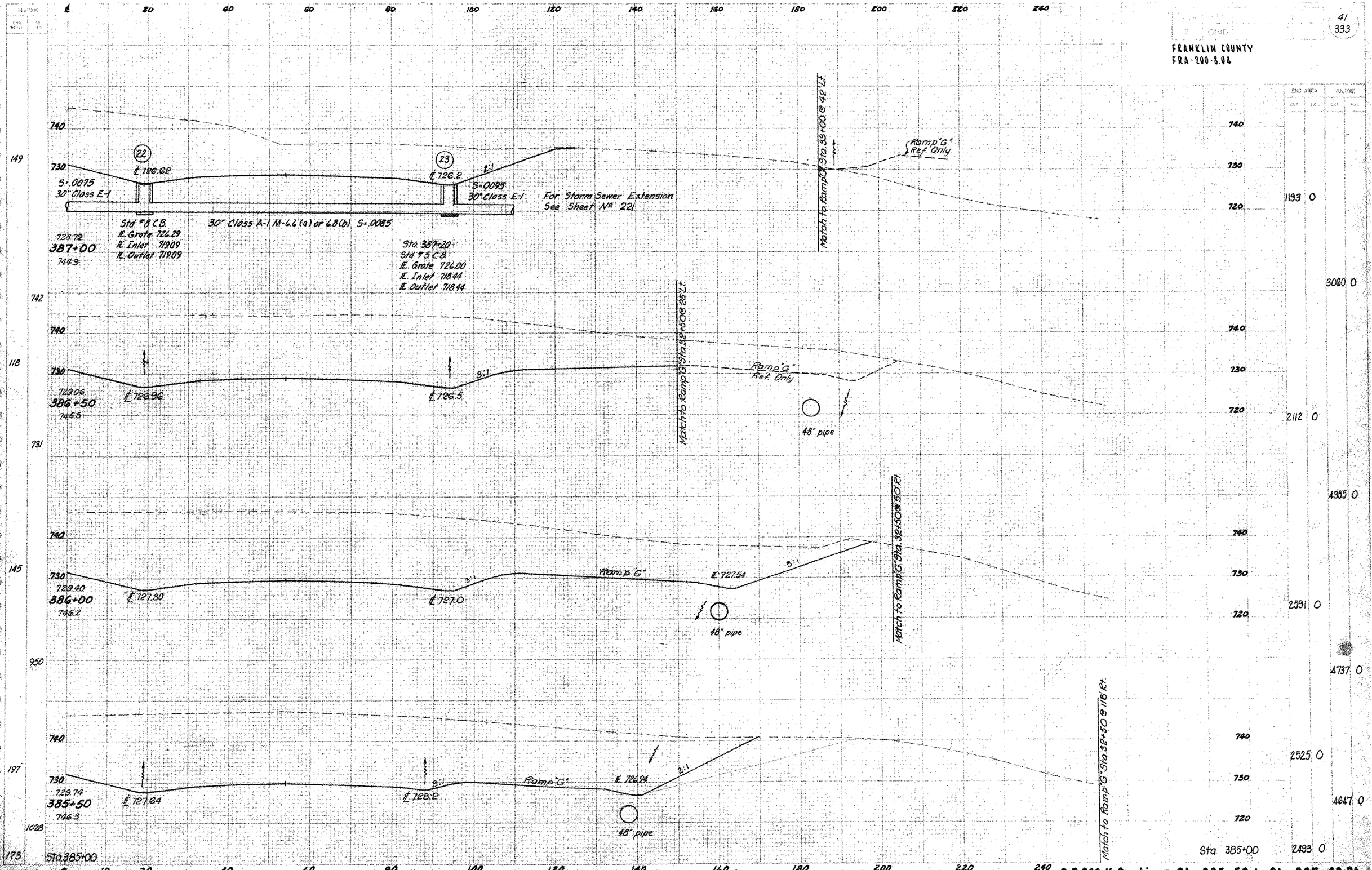
E 729.70

30" pipe

℄	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
20				
℄				
		2628	0	
E 727.98 750.08 385+00 740.3				
		4809	0	
E 728.32 730.42 384+50 747.6		2566	0	
		4671	0	
E 728.66 730.76 384+00 747.9		2479	0	
		4498	0	
E 729.00 731.10 383+50 747.1		2379	0	
		3947	0	
Sta 383+05		2357	0	

S.R. 200 X-Sections Sta. 383+50 to Sta. 385+00 Lt.

FRANKLIN COUNTY
FRA-200-8.08



S.R. 200 X-Sections Sta. 385+50 to Sta. 387+00 Rt.

SEQ. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING
END WIDTH | SQ. YDS.

Match Line - See Sheet No. 186

Ref. Only

℄ 726.81

Std "5 C.B.
℄ Grate 725.81
℄ Inlet 30"- 720.10
℄ Outlet 30"- 720.10
℄ Inlet 18"- 721.10

19

℄ 726.06

18"

30" Class A-1 M-8.6(a) or 6.8(b)

S=.006

20

Std "2-10 Inlet
℄ Grate 727.93
℄ Inlet 719.79
℄ Outlet 719.79

30" Class A-1 M-8.6(a) or 6.8(b)

S=.007

21

℄ 726.62

30" Class E-1
S=.0075

Std "8 C.B.
℄ Grate 728.29
℄ Inlet 719.38
℄ Outlet 719.38

728.12
387+00
744.9

Match Line - See Sheet No. 186

19A

℄ 723.97

S=.0045

Std No. 5 C.B.
Sta "F" 384+73 18" Rt
℄ Grate 723.72
℄ Outlet 721.30

18" Class A-1
M-8.6(a) or 6.8(b)

℄ 726.45

30" Pipe

℄ 726.96

729.06
386+50
745.5

℄ 724.2

℄ 728.00

30" Pipe

℄ 727.30

729.40
386+00
746.2

2:1

℄ 728.0

30" Pipe

℄ 727.64

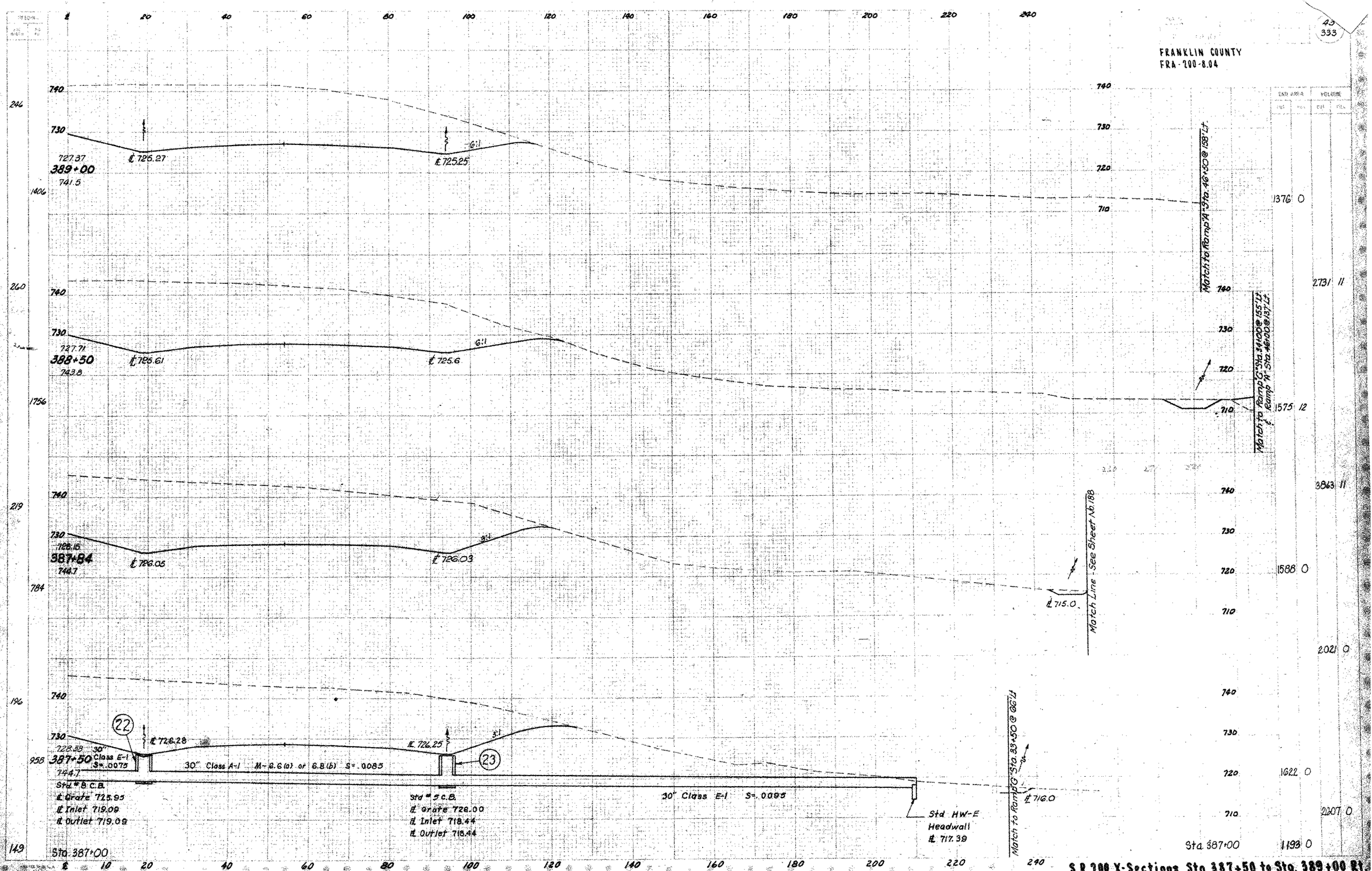
729.74
385+50
746.3

Sta. 385+00

℄	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
750				
740	3493	0		
				6977
750				
740	4042	0		
730				
750				6925
740	3437	0		
750				6927
740	2964	0		
750				5178
740	2628	0		

S.R. 200 X-Sections Sta. 385+50 to Sta. 387+00 Lt.

FRANKLIN COUNTY
FRA-200-8.04



S.R.200 X-Sections Sta. 387+50 to Sta. 389+00 Rt

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
184	1069
201	1555
223	563
75	514
110	

Match Line See Sheet No. 180

Match Line See Sheet No. 180

Match to Ramp F Sta. 28+00 @ 65' Lt.

Match to Ramp F Sta. 28+50 @ 95' Lt.

2:1

℄ 725.97 — ℄ 725.27 — 727.37 — 389+00 — 741.6

℄ 726.31 — ℄ 725.61 — 727.71 — 388+50 — 743.7

℄ 726.75 — ℄ 726.05 — 728.15 — 387+84 — 744.7

℄ 726.98 — ℄ 726.28 — 728.38 — 387+50 — 744.7

Sta. 387+00 ℄

20 ℄	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
740 / 730				
		2492	0	
740 / 730				4653
		2533	0	
740 / 730				6503
		2858	0	
740 / 730				3000
		2660	0	
				5833
Sta. 387+00 ℄		3493	0	

240 220 200 180 160 140 120 100 80 60 40 20 10 ℄

S.R. 200 X-Sections Sta. 387+50 to Sta. 389+00 Lt.

FRANKLIN COUNTY
FRA-200-8.04

SPACING

| | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
169		2443	0		
				730	0
148		2485	0		
166					
179		2435	0		
170					
487		2415	0		
188					
517		2272	0		
184	Sta. 389+00	2492	0		

Match Line-See Sheet No. 179

Match Line-See Sheet No. 179

Match Line-See Sheet No. 179 & 180

Match Line-See Sheet No. 179 & 180

2:1 — ℄ 725.48 — ℄ 724.78 — 730 — 724.88 — 389+73 — 740.3

2:1 — ℄ 725.53 — ℄ 724.83 — 730 — 726.93 — 389+65 — 740.6

2:1 — ℄ 725.63 — ℄ 724.93 — 730 — 727.03 — 389+50 — 739.2

2:1 — ℄ 725.80 — ℄ 725.10 — 730 — 727.20 — 389+25 — 738.5

S.R. 200 X-Sections Sta. 389+25 to Sta. 389+73 Lt.

OHIO

FRANKLIN COUNTY
FRA-200-8.04

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933

SEEDING
INC. WIDTH | SQ. YDS.

AREAS | VOLUMES
CUT | FILL | CUT | FILL

206 329 740 730 726.59 390+14 740.7 ℄ 724.43 ℄ 713.0 Match Line See Sheet No. 158 Ref. only 971 217

210 390 740 730 726.69 390+00 740.6 ℄ 724.59 Match Line See Sheet No. 158 Ref only 491 105

214 149 740 730 726.78 389+86 740.6 ℄ 724.68 ℄ 713.2 Match Line See Sheet No. 158 Ref. Only 921 187

216 169 740 730 726.83 389+80 740.6 ℄ 724.73 ℄ 713.3 Match Line See Sheet No. 158 Brown's Run Ref. Only 472 130

210 Sta. 389+79 730 720 900 313

189 70

803 319

199 41

Sta. 389+73 795 0

℄ 10 20 40 60 80 100 120 140 160 180 200 220 240

S.R.200 X-Sections Sta. 389+80 to Sta. 390+14

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

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SEEDING END WIDTH	SEEDING SQ. YDS.	STA.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		20				
		℄				
149						
	237	740				
		730			2395	0
		℄ 725.19				
		℄ 724.49				
		726.59				
		390+14				
		740.8				
156						245 0
		740				
		730			2401	0
	246	℄ 725.29				
		℄ 724.59				
		726.69				
		390+00				
		740.6				
110		740				1260 0
	107	730			2454	0
		℄ 725.39				
		℄ 724.69				
		726.79				
		389+86				
		740.6				546 0
161		740				
		730			2457	0
	128	℄ 725.43				
		℄ 724.73				
		726.83				
		389+80				
		740.6				685 0
169	Sta. 389+79	Sta 389+73			2443	0
		10				
		℄				

Match Line - See Sheet No. 179

Match Line - See Sheet No. 179

Match Line - See Sheet No. 179

Match Line - See Sheet No. 179

2:1

2:1

2:1

2:1

240 220 200 180 160 140 120 100 80 60 40 40 20 ℄

S.R. 200 X-Sections Sta. 389+80 to Sta. 390+14 Lt.

OHIO

FRANKLIN COUNTY
FRA-200-8.04

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DESIGNED		DRAWN		CHECKED	
QUANTITIES					
END AREA		VOLUME			
CUT	FILL	CUT	FILL		
1280	42				
		2422	39		
1330	0				
		2370	0		
1230	0				
		2126	144		
1065	150				
		1357	249		
971	217				

140 828 — 725.33 392+00 739.6 — ℄ 723.23 — ℄ 723.0 — Match Line - See To Sheet No. 159 — Ref. only — ℄ 711.1

158 928 — 725.67 391+50 740.1 — ℄ 723.57 — ℄ 723.5 — Match Line - See Sheet No. 159 — Ref. only — ℄ 710.9

176 1022 — 726.01 391+00 740.8 — ℄ 723.91 — Match Line - See Sheet No. 159 — Ref. Only — ℄ 710.7

See Sheet No. 264 For Grading (Rt.)

192 798 — 726.35 390+50 740.8 — ℄ 724.25 — Match Line - See Sheet No. 159 — Ref. only

208 — Sta. 390+14

Sta. 390+14

S.R. 200 X-Sections Sta. 390+50 to Sta. 392+00 Rt.

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.	STA.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
9.4	583	392+00			4056	0
11.1	658	391+50			4583	0
12.6	745	391+00			4586	0
14.2	582	390+50			3240	0
11.9		390+14			2395	0

Match to Ramp E "Sta 23+00 @ 47' Lt.

Ref. Only

2:1

℄ 723.93

725.33

739.6

℄ 723.23

2509 0

Match Line - See Sheet No. 179

Ref. Only

2:1

℄ 724.27

725.67

740.1

℄ 723.57

2462 0

Match to Ramp E "Sta 24+00 @ 55' Lt.

Ref. Only

2:1

℄ 724.61

726.01

740.7

℄ 723.91

2488 0

Match Line - See Sheet No. 179

Ramp "S" Ref. Only

2:1

℄ 724.95

726.35

740.7

℄ 724.25

2465 0

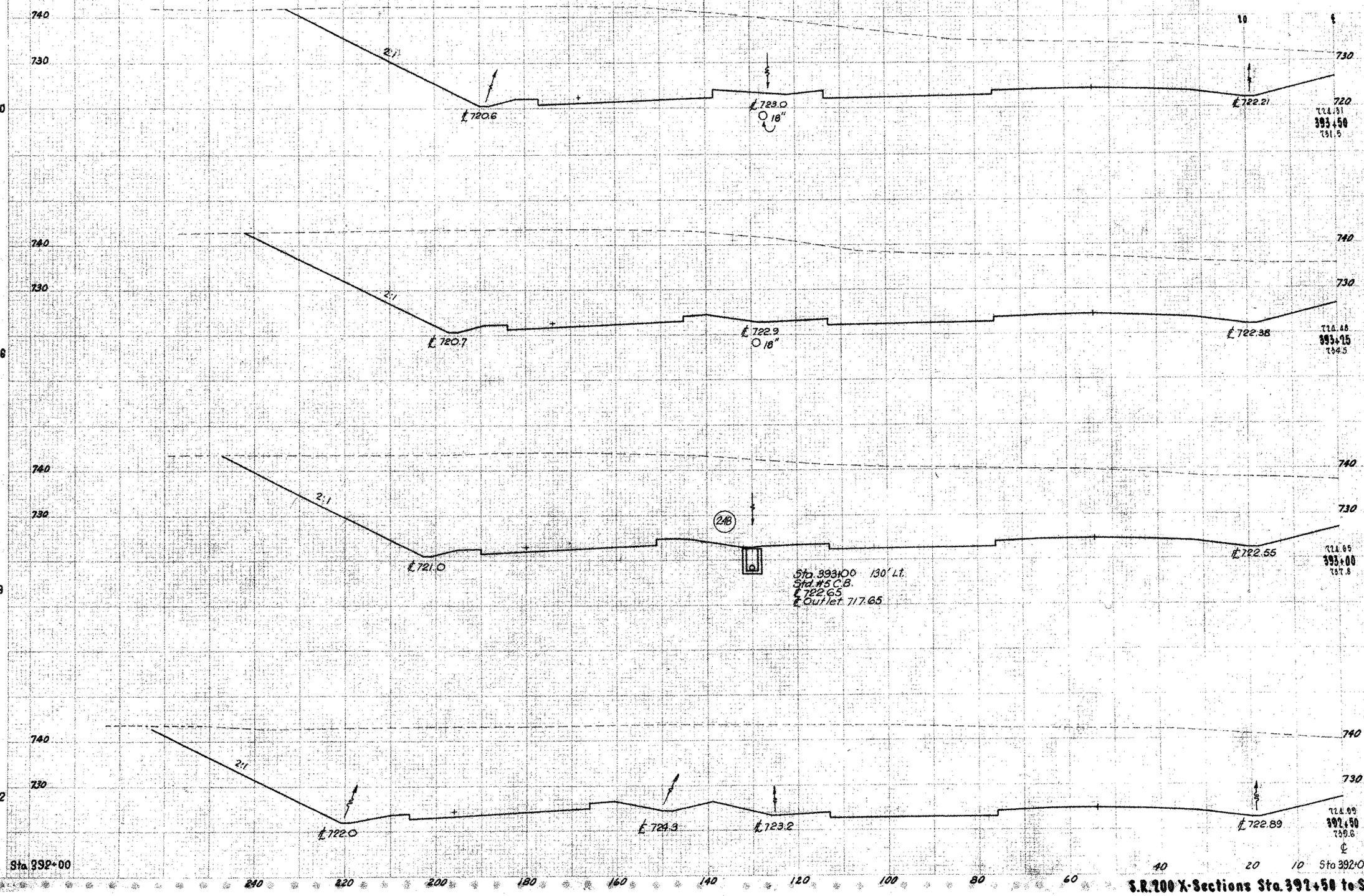
S.R. 200 X-Sections Sta. 390+50 to Sta. 392+00 Lt.

FRANKLIN COUNTY
FRA-200-8.04

| | | |

FRANKLIN COUNTY
FRA-200-8.04

STATION	RT	LT
398+00	138	400
397+50	149	426
397+00	158	919
396+50	179	742
396+00	84	



EXC. AREA CUT	EXC. AREA FILL	VOLUME CUT	VOLUME FILL
3223	0		
3242	0		
3780	0		
3661	0		
4128	0		
8162	0		
4887	0		
6719	0		
2569	0		

S.R.200 X-Sections Sta. 392+50 to Sta. 393+50 Lt.

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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FRANKLIN COUNTY
FRA-200-8.04

Seeding	
End Width	Sq. Yds.
232	
	1333
255	
1692	
138	
519	
49	
378	
87	

Item E-3 Channel Excavation		
Station	Area	Volume
394+50	0	72
395+00	78	157
395+50	92	

End Area		Volume	
Cut	Fill	Cut	Fill
0	2393		
			0 4491
0	2414		
0	4209		
0	2132		
			26 2363
		28	120
			382 589
Sta. 393+50		385	216

Sta. 393+50

℄ 720.85
℄ 719.7
Variable
Item E-3
Limits of Channel Excavation
℄ 706.51
711.95
395+50
711.1

℄ 721.19
℄ 719.0
Variable
Item E-3
Limits of Channel Excavation
℄ 706.66
723.29
395+00
715.5

℄ 721.53
℄ 716.5
Match to Ramp A Sta. 51+57 @ 46 Rt.
719.93
394+50
719.8

℄ 721.87
Match to Ramp A Sta. 51+58.99 Rt.
Ref. Only
721.97
394+00
719.2

Sta. 393+50

S.R. 200 X-Sections Sta. 394+00 to Sta. 395+50 Rt.

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

Seeding	
End Width	Sq. Yds.
120	625
105	592
108	633
120	720
139	Sta. 393+50

End Area		Volume	
Cut	Fill	Cut	Fill
311	653		
			907 995
669	422		
			1805 468
1280	105		
			3169 106
2142	9		
			4968 8
		3223	0

Sta. 393+50

℄ 718.8
℄ 719.0
℄ 719.2
℄ 719.5
℄ 720.85
℄ 721.19
℄ 721.53
℄ 721.87
℄ 723.2
24"
24"
21"
18"
24A
Std # 2- 6 Inlet
Sta 394+17
LT
℄ Inlet 18" = 717.02
℄ Outlet 21" = 716.77
℄ Grate 722.44

722.95
395+50
712.1

723.29
395+00
715.5

723.63
394+50
719.8

723.97
394+00
724.9

720
710

S.R.200 X-Sections Sta. 394+00 to Sta. 395+50 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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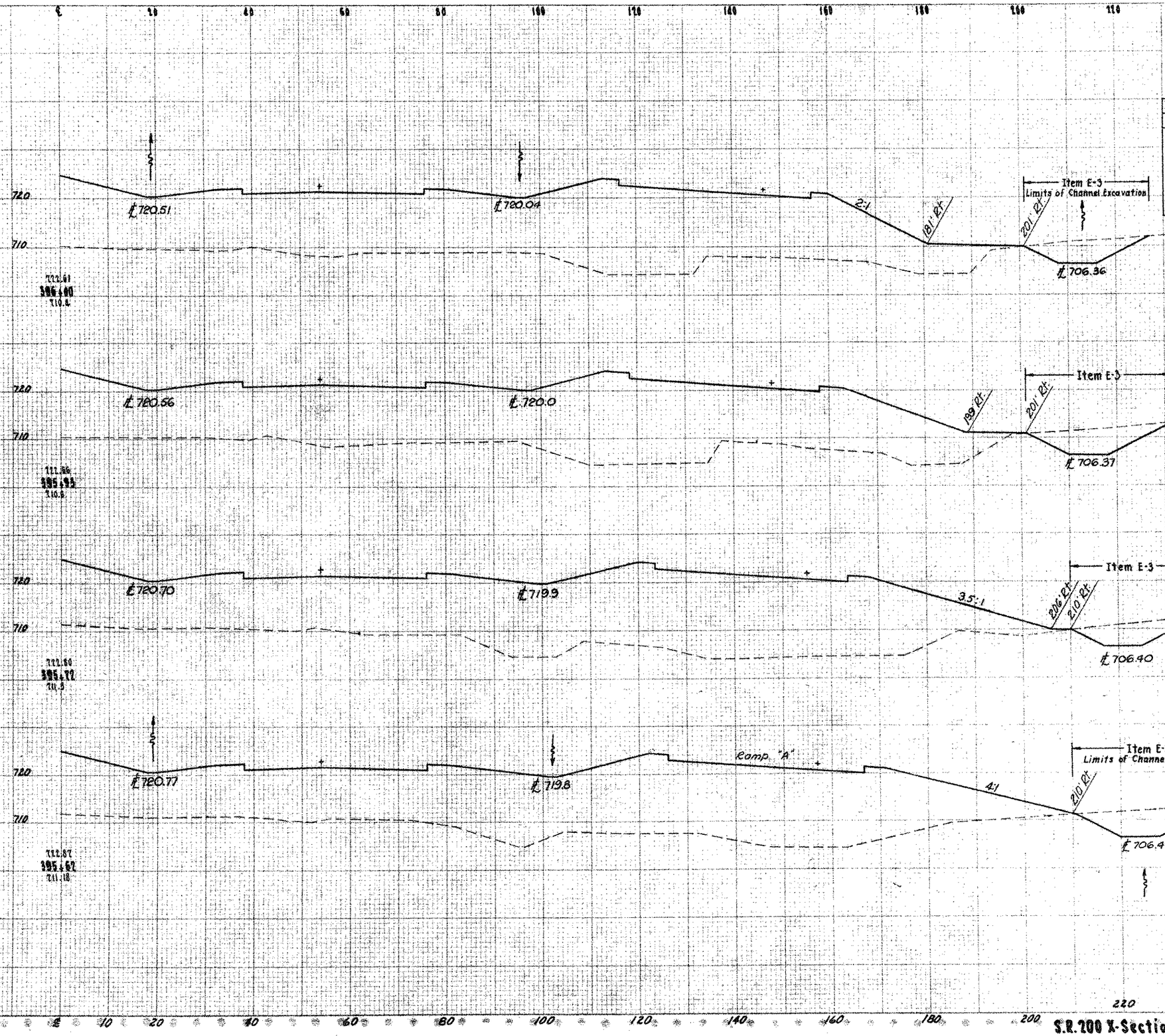
FRANKLIN COUNTY
FRA-200-8.04

Item E-3 Channel Excavation		
Station	Area	Volume
395+62	100	43
395+72	80	33
395+93	102	71
396+00	75	23

Seeding		End Area		Volume	
End Width	Sq. Yds.	Cut	Fill	Cut	Fill
212					
	167	0	2406		
				0	623
217					
	512	0	2409		
				0	1950
222					
	249	0	2600		
				0	917
226					
	305	0	2485		
				0	1084
232	Sta. 395+50	0	2393		



S.R. 200 X-Sections Sta. 395+62 to Sta. 396+00 Rt.

Seeding	
End Width	Sq. Yds.
86	
69	
216	
94	
106	
97	
145	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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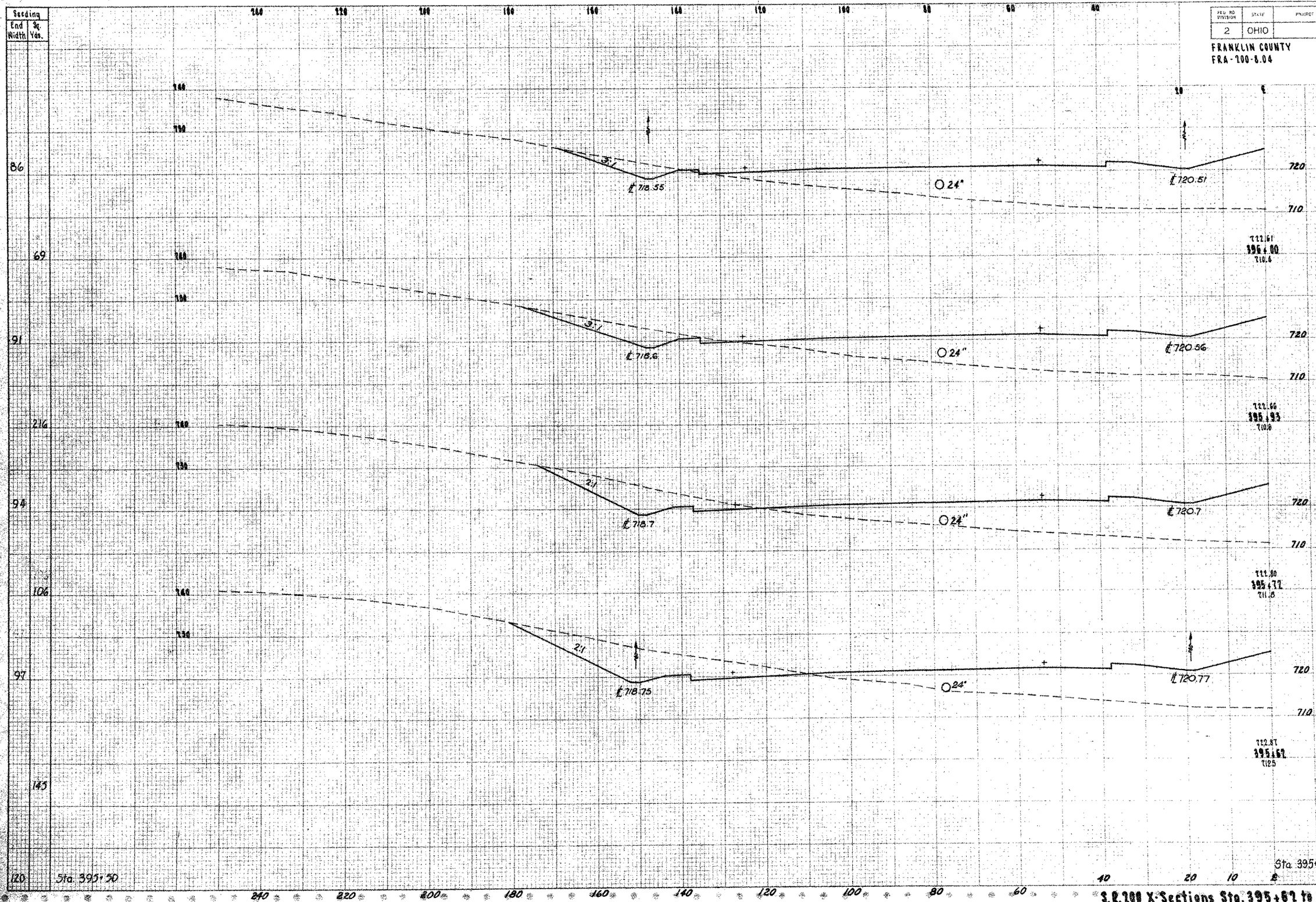
FRANKLIN COUNTY
FRA-100-8.04



End Area		Volume	
Cut	Fill	Cut	Fill
60	1012		
		21	258
95	975		
		102	897
168	817		
		86	282
297	707		
		135	302
Sta. 395+50		311	653

S.R.208 X-Sections Sta. 395+62 to Sta. 396+00 Lt.

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

Item E-3 Channel Excavation		
Station	Area	Volume
396+53	30	103
396+64	0	6
396+77	200	48
397+00	352	235

SEEDING			END AREA VOLUME			
END AREA	SQ. YDS.		CUT	FILL	CUT	FILL
174	464	Sta. 397+00 · 19' Rt. #8 C.B. ℄ Grate = 719.67 ℄ C.B. = 717.16 12" @ 0.01′ ↓ ℄ 720.40 155' Rt. 172' Rt. Item E-3 Limits of Channel Excavation 2:1 ℄ 706.08 721.93 397+00 709.1	0	1956	0	1719
189	276	℄ 720.00 ℄ 720.30 161' Rt. 180' Rt. Item E-3 2:1 ℄ 706.15 722.10 396+77 709.2	0	2086	0	1082
193	238	℄ 720.08 ℄ 720.25 165' Rt. 185' Rt. ℄ 706.20 722.18 396+64 709.4	0	2415	0	940
197	1204	℄ 720.15 ℄ 720.20 Ramp "A" 170' Rt. 187' Rt. Item E-3 2:1 ℄ 706.22 722.25 396+53 709.8	0	2225	0	4539
212	Sta. 396+00		0	2400		

S.R. 200 X-Sections Sta. 396+53 to Sta. 397+00 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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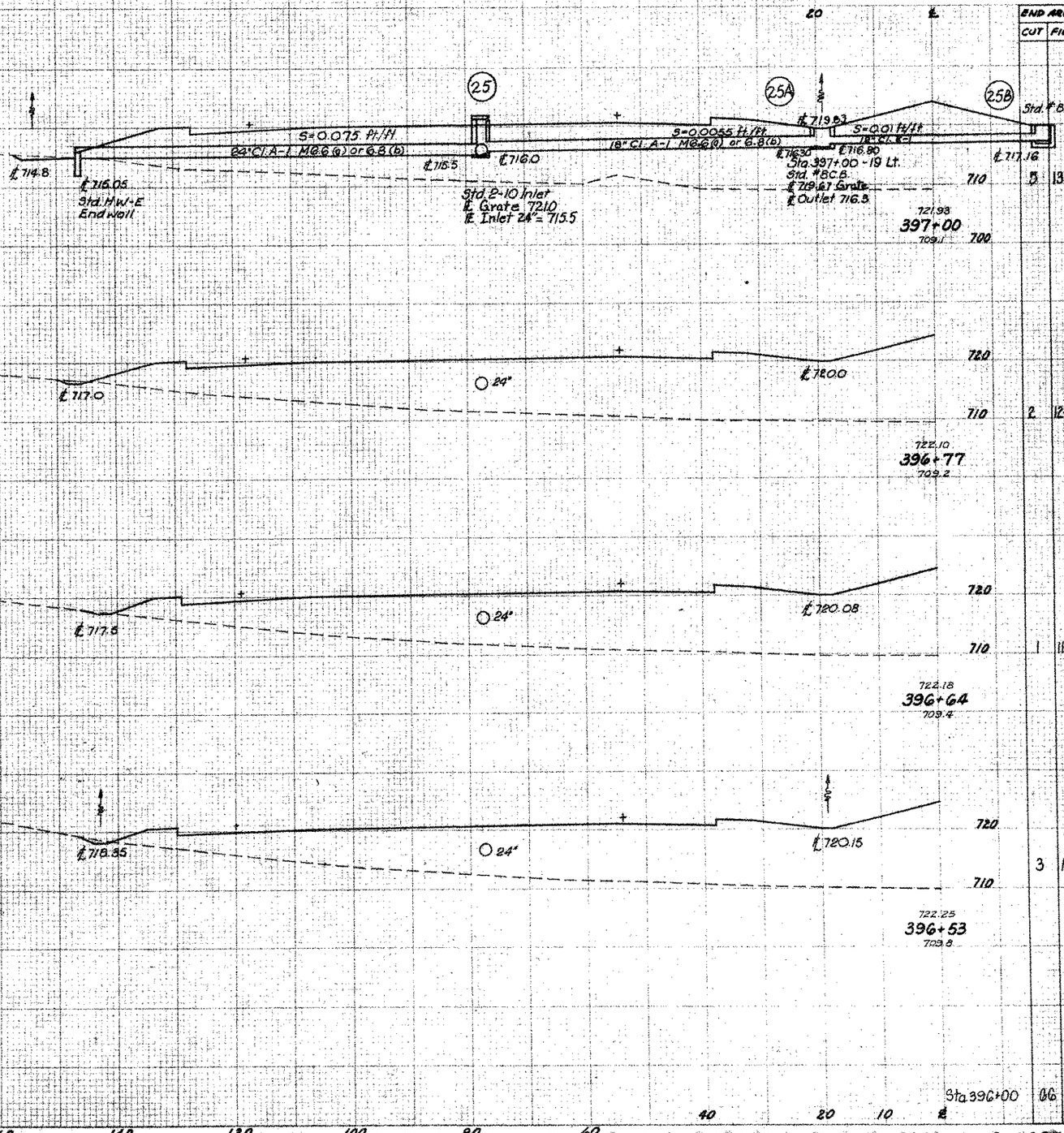
FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
92	233
90	129
89	109
89	515



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	5		1343
	3		1098
	2		1235
	1		582
	1		1184
	1		474
	3		1145
	68		2117
	66		1012

S.R. 200 X-Sections Sta. 396+53 to Sta. 397+00 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

Item E-3 Channel Excavation		
Station	Area	Volume
397+50	698	972
398+00	661	1258
398+50	645	1209
399+00	789	1328

SEEDING	
END WIDTH	SQ. YDS.
158	878
158	872
156	853
151	903
174	Sta. 397+00

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	1780		
		0	3343
0	1880		
		0	3393
0	1854		
		0	3381
0	1817		
		0	3492
0	1956		

Item E-3
Limits of Channel Excavation

Ramp 'A'

S.R. 200 X-Sections Sta. 397+50 to Sta. 399+00 Rt

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

60
333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SQ. YDS.
97	539
97	536
96	531
95	519

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
63		1532		
				139 2806
87		1198		
				83 2752
3		1473		
			3	2733
0		1478		
			5	2612
Sta 397+50	5	1343		

Sta. 397+00

S.R. 200 X-Sections Sta. 397+50 to Sta. 399+00 Lt.

FRANKLIN COUNTY
FRA-200-8.04

Item E-3 Channel Excavation		
Station	Area	Volume
399+50	968	1627
400+00	698	1543
400+50	765	1333
401+00	1038	1669
401+28	1069	1093

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	1279		
		0	1481
0	1578		
		0	2996
0	1657		
		0	3102
0	1693		
		0	3142
0	1700		
		0	3222
Sta. 399+00	0	1780	

SEEDING
IND WIDTH | SQ YDS

℄ 20 40 60 80 100 120 140 160 180 200 220 240

167 521
℄ 716.93
710
700
719.03
401+28
700.8

Item E-3
Limits of Channel Excavation
℄ 702.0
740
730

168 933
℄ 717.12
710
700
719.22
401+00
702.4

Item E-3
℄ 703.90
740
730

168 931
℄ 717.46
710
700
719.56
400+50
703.0

Item E-3
℄ 705.04
740
730

167
℄ 717.80
℄ 715.91
Sta. 400+00 6" 60° Wye
6" Cl. A-1
℄ 713.11
@ Ramp 24" Sta. 57+46

Item E-3
℄ 705.16
740
730

931
719.90
400+00
705.0

168 906
℄ 718.14
710
700
720.21
399+50
706.3

Item E-3
Limits of Channel Excavation
℄ 705.84
740
730

℄ 10 20 40 60 80 100 120 140 160 180 200 220 240

S.R.200 X-Sections Sta. 399+50 to Sta. 401+28 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING	
END WIDTH	SQ. YDS.
94	292
94	519
93	522
95	528
95	533
97	

℄	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
20	41	1988		
			24	2021
	5	1909		
			5	3523
	0	1896		
			5	3303
	5	1671		
			27	3087
	24	1603		
10			81	2939
	63	1532		

℄ 709.80 — 719.03 — 401+28 — 700.9
℄ 716.93 — 710 — 700
℄ 710.0 — 719.22 — 401+00 — 702.4
℄ 717.12 — 710 — 700
℄ 710.5 — 719.56 — 400+50 — 703.0
℄ 717.46 — 710 — 700
℄ 712.0 — 719.90 — 400+00 — 705.0
℄ 717.8 — 710 — 700
℄ 713.6 — 720.24 — 399+50 — 706.3
℄ 718.14 — 710 — 700

Sta. 399+00 — Sta. 399+00

S.R. 200 X-Sections Sta. 399+50 to Sta. 401+28 Lt.

FRANKLIN COUNTY
FRA-200-8.04

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SECTIONS
END WIDTH | TO STA.

| | | |

DIST. NO.	STATE	PROJECT	
2	OHIO		

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338

FRANKLIN COUNTY
FRA-200-8.04

Item E-3 Channel Excavation		
Station	Area	Volume
402+00	102	153
402+50	63	135
403+00	83	138
403+50	66	

SEEDING

END WIDTH	SQ YDS
169	925
164	892
157	858
152	833
148	296
94	

Item E-3
Limits of Channel Excavation

℄ 699.4

℄ 699.55

℄ 699.7

℄ 703.0

Std. HW-E Endwall

15" CI. A-1 M66(a) or 6.8(b)
S=0.085 ft/ft

Sta 402+31 Lt.
Std. E-10 Inlet

℄ 711.50

℄ 700.0

℄ 709.5

Sta 401+28

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	1897		
		0	3512
0	1898		
		0	3640
0	2035		
		0	3309
0	2186		
		16	3823
17	1943		
		24	1602
41	1988		

℄ 715.42
710
700
717.52
403+50
704.4

℄ 715.76
710
700
717.86
403+00
704.4

℄ 716.10
710
700
718.20
402+50
708.5

℄ 716.44
710
700
718.54
402+00
702.8

℄ 716.78
710
700
718.88
401+50
703.1

Sta 401+28

S-8 200 Y-Sections Sta 401+50 to Sta 403+50 Lt.

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

65
333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING

END WIDTH	SQ. YDS.
94	517
92	508
91	542
104	600
112	644
120	

Sta. 403+50

715.82
406+00
706.2

716.16
405+50
706.3

716.50
405+00
705.7

716.84
404+50
705.0

717.18
404+00
704.2

E 713.72
E 712.1
E 714.06
E 709.0
E 714.40
E 710.2
E 709.0
E 714.74
E 711.0
E 715.00
E 713.0

4:1
2:1

A=21.98 ℄=20°Wye
36"-RCP Sec 26(b) Class A-1 @ 0.234%
HW-C Headwall

See Sheet No. 229 for Culvert Details

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
3	655		
		8	1380
6	842		
		16	1618
11	905		
		275	1565
286	785		
		731	1425
503	754		
		882	1356
450	710		

Sta. 403+50

S.R.200 X-Sections Sta. 404+00 to Sta. 496+00 Rt.

SEEDING	
ENG. WIDTH	SQ. YDS.
90	775
189	1047
188	1022
180	989
176	958
169	

Item E-3 Channel Excavation		
Station	Area	Volume
404+00	34	93
404+50	0	31

FED. ROAD DESIGN	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200-8.04

Existing Browns Run

See Sheet No 299 For Culvert Details

36" Cl. A-1 @ 0.234 Ft/Ft

HW-C Headwall

Item E-3 Limits of Chan. Excav.

Sta. 403+50

℄	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
406+00	6		1185	
			15	2240
405+50	10		1235	
			23	2356
405+00	15		1309	
			14	2545
404+50	0		1439	
			0	3040
404+00	0		1844	
			0	3464
Sta. 403+50	0		1897	

S.R. 200 X-Sections Sta. 404+00 to Sta. 406+00 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
200	2211
198	1072
188	1033
184	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1955	4		
		5670	1760
1110	947		
		1352	2104
350	1390		
		332	2931
Sta. 406+00	0	1840	

Sta. 406+00

Sta. 407+00
709.6
715.14
12" Cl. E-1
15" Cl. E-1
6" Cl. T-3
E.E. 8+28.6 - 60° Wye
E.E. 710.36
188 6-60° Wye
E.E. 710.73
407+00 19' Lt.
No. 8 C.B.
Grate Elev. 712.87
407+00 19' Rt.
No. 8 C.B.
Grate Elev. 712.87
+88 6-60° Wye
E.E. 710.73
E.E. 710.40
E.E. 709.90
E.E. 710.20
E.E. 709.70
E.E. 709.55
E.E. 703.2
E.E. 702.0
Erosion Prot.
HW-E Endwall
E.E. 711.8
E.E. 712.36
714.46
408+00
717.0
E.E. 712.36
E.E. 711.9
E.E. 712.7
E.E. 713.38
E.E. 713.38
E.E. 712.9
713.49
406+50
707.6
E.E. 701.75

Sta. 408+00

S.R. 200 X-Sections Sta. 406+50 to Sta. 408+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING AND WIDTH	SQ. YDS.
232	2515
236	3418
220	2400
212	2289

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	3567	0		
			13869	
	3317	0		
			14360	
	3840	0		
			13943	
	3305	0		
			9853	7
	1955	4		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING	
END WIDTH	SQ. YDS.
235	2584
232	2578
231	2589
234	2589
232	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
	3304	0	
			12419
	3402	0	
			12539
	3369	0	
			12856
21	3573	0	
			13223
	3567	0	

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

730 720 710

EL 706.72 EL 706.93 709.03 416+00 722.4 EL 706.93 EL 706.72

720 710

EL 707.40 EL 707.61 709.71 415+00 723.5 EL 707.61 EL 707.40

720 710

EL 708.08 EL 708.29 710.39 414+00 723.6 EL 708.29 EL 708.08

720 710

EL 708.76 EL 708.97 711.07 413+00 724.9 EL 708.97 EL 708.76

Sta. 412+00

Sta. 412+00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

S.R. 200 X-Sections - Sta. 413+00 to Sta. 416+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING AND MULCH SQ. YDS.

140 120 100 80 60 40 20 E 20 40 60 80 100 120 140

END AREA CUT | END AREA FILL | VOLUME CUT | VOLUME FILL

419+81

2.2:1 — 3.0% — E 704.0 — E 704.35 — 15" Pipe — 706.45 — 719.6 — E 704.35 — 3.0% — E 704.0

232 — 2088

720 — 710 — 700

720 — 2485 O — 8295 O

419+00

2.2:1 — E 704.7 — E 704.90 — 15" Pipe — 707.00 — 719.4 — E 704.90 — E 704.7

231 — 2501

720 — 710

720 — 3045 O — 11194 O

418+00

3:1 — E 705.3 — E 705.57 — 15" Pipe — 707.67 — 720.0 — E 705.57 — E 705.3

251 — 2567

730

720 — 3000 O — 15065 O

417+00

5:1 — 3.0% — E 706.0 — 417+00 19 Lt. No. 8 Catch Basin Grate Elev. 706.08 — 417+00 19 Rt. No. 8 Catch Basin Grate Elev. 706.08 — 6" Cl. F-3 — 12" Cl. E-1 — 6" Cl. F-3 — 8" 60° Bend E 703.94 — E.G. 703.46 E.12" 702.95 E.15" 702.72 — 708.35 — 721.2 — E.G. 703.65 E.12" 703.15 — 8" 60° Bend E 703.94 — E 706.0

231 — 2578

720 — 710

720 — 3245 O — 12129 O

Sta. 416+00 — 3304 O

S.R. 200 X-Sections Sta. 417+00 to Sta. 419+81

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.
230	839
228	128
231	489
232	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		1607	21
		2313	13
		2178	0
		412	0
		2275	0
		675	0
		2485	0

Sta. 419+81

E 703.96
706.06
O 15" Pipe
420+38
713.8
E 703.75
E 703.98
706.29
O 15" Pipe
420+05
712.4
E 704.19
E 704.19
E 703.98
E 704.22
706.32
O 15" Pipe
420+00
713.6
E 704.22
E 704.01
E 704.01

S.R. 200 X-Sections Sta. 420+00 to Sta. 420+38

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING END SQ. WIDTH YDS.
231
256
230
255
229
102
230

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
133	1778		
		1006	4854
410	843		
		2396	1733
884	93		
		768	52
1001	35		
		1932	41
		1607	21

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

700 690

℄ 690.5 — 16 Lt. — 105 Lt. — 2:1

℄ 703.06 — 6:1 — 10:1 — ℄ 703.48 — 4:1 — 2:1 — ℄ 697.8

705.00
423+00
693.4

422+00 19 Lt.
No. 8 Catch Basin
Grate Elev. 702.99

422+00 19 Rt.
No. 8 Catch Basin
Grate Elev. 702.99

111 Lt. — 10:1 — 2:1 — ℄ 694.6 — ℄ 694.3 — 15" CL E-1 — 12" CL E-1 — ℄ 700.74 — ℄ 15" 700.81 — ℄ 701.16 — ℄ 702.92

No. 8 Endwall
Erosion Pad

705.26
422+00
699.5

℄ 703.59 — 15" Pipe — ℄ 703.59 — 2:1 — ℄ 702.38 — ℄ 695.0 — 4:1

705.69
421+00
709.4

420+69 162' Rt.
No. 2 ZA C.B.
Grate Elev. 706.30
℄ C.B. 704.14

℄ 18" Outlet
@ 95° Rt. 420+69
703.60

18" Cl. E-1 @ .008 ft/ft

℄ 703.75 — 15" Pipe — ℄ 703.75 — ℄ 703.54 — ℄ 694.2 — 4:1

HW-E Endwall

705.85
420+78
710.0

Sta. 420+38 — Sta. 420+38

FED. RD. DIVISION	STATE	PROJECT		73
2	OHIO			333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING		140	120	100	80	60	40	20	℄	20	40	60	80	100	120	140	END AREA		VOLUME	
FND WIDTH	SQ. YDS.																CUT	FILL	CUT	FILL

OHIO

FRANKLIN COUNTY
FRA-200-8.04

SEEDING
CKD WIDTH | SQ. YDS.

0
0
0
32 635.5
25
153
77
531
114
547
83

Sta. 424+50

Scioto Big Run Structure FRA-200-0904 Rt.

704.18
426+25
699.3

704.25
426+00
See Scioto Big Run Channel Section

Rear Abutment of Bridge

Match Line Scioto Big Run Chan. 50+00 Rt. & Lt.

704.31
425+77
691.1

Match Line Scioto Big Run Channel 50+00 Rt. & Lt.

2:1

E 691.0

704.38
425+50
691.6

For Computation of Earthwork
Take 425+27 as Zero and
425+00 as a Full Section as shown

424+75
Std. No. 607.8
Grate Elev. 699.92
M.C.B. 698.08

2:1

E 691.5

704.50
425+00
691.1

Sta.	CKD AREA	VOLUME
425+27	0	0
	7	55
	14	1113
	31	2041
Sta. 424+50	20	1091

S.R.200 X-Sections Sta. 425+00 to Sta. 426+25 R

FRANKLIN COUNTY
FRA-200-8.04

SEEDING
GND WIDTH | 20 YDS.

Scioto Big Run Structure

710
700
704.19
426+25
710 699.3

Scioto Big Run Structure

704.25
426+00
710 695.5

Scioto Big Run Structure

704.31
425+77
710 691.1

704.38
425+50
710 691.6

For Computation of Earthwork
Take 425+27 as Zero and
425+00 as a Full Section as shown

Match Line
Scioto Big Run Chan.
494.00 58° 18'

+21.31' Lt.
EL 12' Ext 697.52
See Sheet No. 25

424+75 3rd No. 8 C.B.
Grate El. 699.92
H.C.B. 698.08

704.50
425+00
691.1

Sta. 424+50

Sta. 424+50

S.R. 200 X-Sections Sta. 425+00 to Sta. 426+25

FRANKLIN COUNTY
FRA-200-8.04

SEEDING

END WIDTH	SQ YDS
42	222
38	106
0	0
0	0
0	0
0	0

0 20 40 60 80 100 120 140 160 180 200 220 240

See Sciota Big Run Channel Sections

8:1 8:1 100.1

630

680 703.75
428+00
630.3

See Sciota Big Run Channel Sections

427+50 ℄ Std. No.8 C.B. Grate ℄ 699.24 ℄ C.B. 697.40

8:1

630

680 703.38
427+50
685.4

For Computation of Earthwork take 427+05 as Zero and 427+50 as a Full Section as shown

Sciota Big Run Structure FRA-200-0904 Rt

700

630

704.00
427+00
686.3

Sciota Big Run Structure FRA-200-0904 Rt

690

704.11
426+57
691.5

680

Sta. 426+25

700	690	0 1297
700	690	0 732
700	690	0 610
427+05		0 0
700	690	0 0
700	690	0 0
700	690	0 0
Sta. 426+25		0 0

0 1879

0 0

0 0

0 0

0 0

C.S.200 X-Sections Sta 426+57 to Sta 428+00 Rt

FRANKLIN COUNTY
FRA-200-8.04

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SEEDING
END WIDTH | SQ. YDS.

HG	644
	116
	631
	111
	452
78	139
0	

Sta 426+25

℄	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
20				
15		816		
20		1049		
7		905		
35		2327		
31		1548		
32		243		
9		1512		
5		89		
0	0			

Sta 426+25 20 40 60 80 100 120 140 160 180 200 220 240

690 700 710

℄ 689.8 2:1 6:1 ℄ 702.84 703.75 428+00 690.3

℄ 427+50 ℄ B.C.B. ℄ Grate 699.24 ℄ C.B. 697.40 703.83 427+50 685.4

See Scioto Big Run Channel Sections

704.00 See Scioto Big Run Channel Sections 427+00 686.3

704.11 680 426+57 691.5

For Computation of Earthwork take 426+50 as Zero and 426+57 as a Full Section as shown

X-Sections Sta 426+57 to Sta 428+00

SEE SHEET NUMBER	STATE	PROJECT
2	OHIO	

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FRANKLIN COUNTY
FRA-200-8.04

SEEDING
END WIDTH | AD. YDS.

Item E-3
Channel Excavation

℄ Channel
679.0
54+53

Material Use
Scioto Big Run Channel
Sta. 54+53 to 57+00

Reference Only

See Scioto Big Run Channel Sections

Sta.					END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
428+00	703.25	693.9	701.5	701.75				
429+00	703.50	701.0	702.5	702.2	11	1069		
429+50	703.38	694.3	702.2	703.0	15	2415		
429+08	703.43	701.1			5	1539		
428+50	703.63	693.4			0	1359		
428+41	703.65	691.6			4	2254		
Sta. 428+00					0	411		
					0	1416		
					0	2626		
					0	1420		
					0	473		
					0	1419		
					0	2062		
					0	1297		

S.R. 200 X-Sections Sta. 428+41 to Sta. 450+00 Rt.

FRANKLIN COUNTY
FRA-200-8.04

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA SQ. FT.	VOLUME CU. YDS.
115	639	7	1155
		28	1983
115	537	23	987
		23	1580
115		6	1045
		1	307
102		4	1029
115		13	1653
639		10	756
115		3	253
115		9	764
115	527	18	1200
116	Sta 428+00	15	816

Sta 430+00 — ℄ 689.4 — 703.25
Sta 429+50 — ℄ 689.5 — 703.38
Sta 429+08 — ℄ 689.6 — 703.48
Sta 429+00 — ℄ 689.8 — 703.50
Sta 428+50 — ℄ 689.7 — 703.63
Sta 428+41 — ℄ 689.7 — 703.65

S.R. 200 X-Sections Sta. 428+41 to Sta. 430+00 Lt.

FRANKLIN COUNTY
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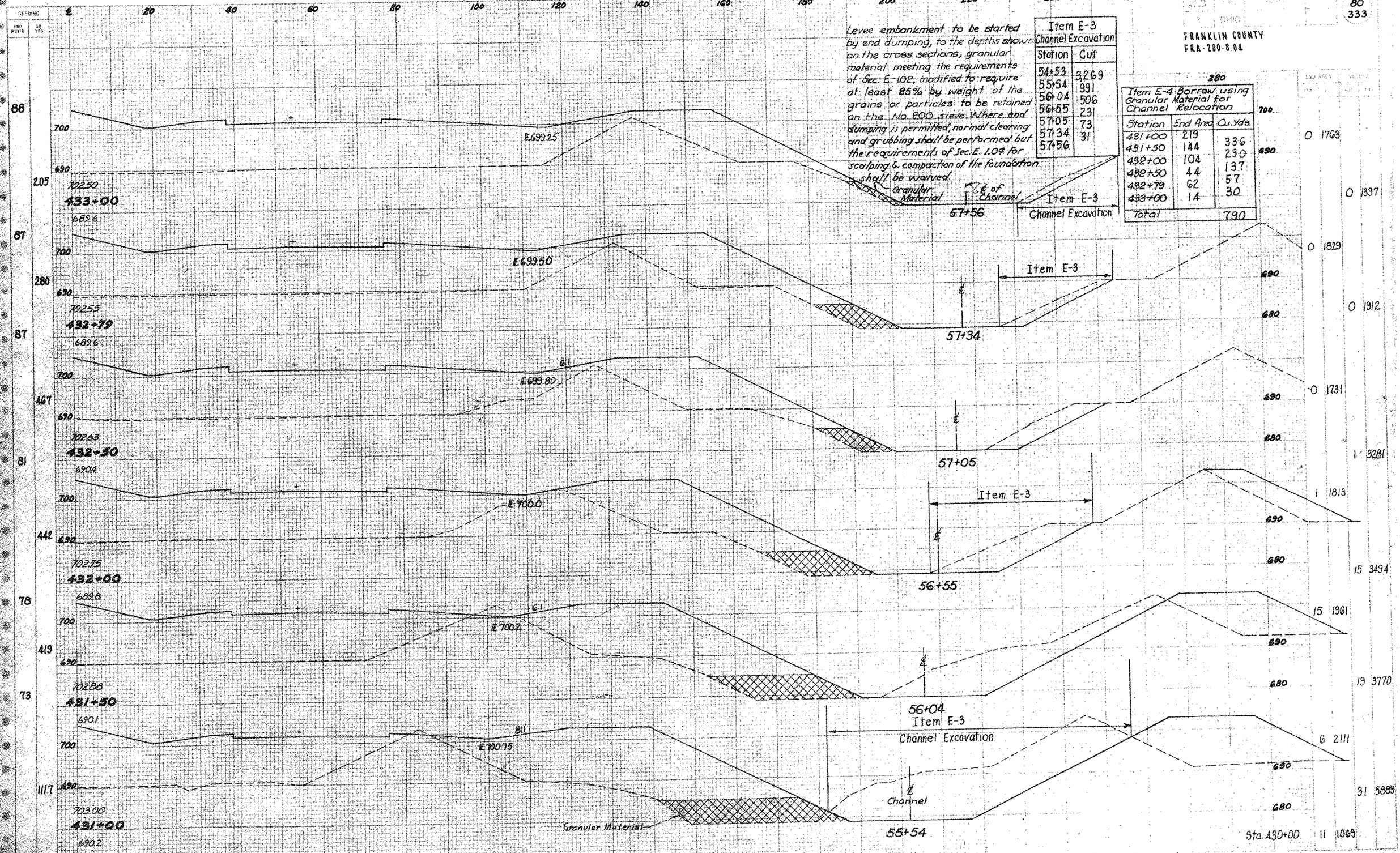
Levee embankment to be started by end dumping, to the depths shown on the cross sections, granular material meeting the requirements of Sec. E-102, modified to require at least 85% by weight of the grains or particles to be retained on the No. 200 sieve. Where end dumping is permitted, normal cleaning and grubbing shall be performed but the requirements of Sec. E-104 for scalping & compaction of the foundation shall be waived.

Item E-3 Channel Excavation	
Station	Cut
54+53	3269
55+54	991
56+04	506
56+55	231
57+05	73
57+34	31
57+56	

Item E-4 Borrow Using Granular Material for Channel Relocation		
Station	End Area	Cu. Yds.
431+00	219	336
431+50	144	230
432+00	104	137
432+50	44	57
432+79	62	30
433+00	14	
Total		790



S.R. 200 X-Sections Sta. 431+00 to Sta. 433+00 Rt.

OHIO

FRANKLIN COUNTY
FRA-200-8.04

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SEEDING

GND WIDTH	SQ YDS
115	
	288
115	
	369
114	
	638
116	
	644
116	
	642
115	
	1277
115	

Sta 430+00

240 220 200 180 160 140 120 100 80 60 40

700 690 700 690 700 690 700 690 700 690

℄ 688.8 2:1 ℄ 700.4 20

702.50
433+00
689.6

℄ 688.85 2:1 ℄ 700.45

702.55
432+79
689.6

℄ 688.9 2:1 ℄ 700.59

702.63
432+50
690.4

℄ 689.0 2:1 ℄ 700.65

702.75
432+00
689.8

℄ 689.1 2:1 ℄ 700.73

702.88
431+50
690.1

℄ 689.2 2:1 ℄ 700.9

703.00
431+00
690.2

Sta 430+00

40 20 10 ℄

℄	GND AREA CUT	GND AREA FILL	VOLUME CUT	VOLUME FILL
20				
19	1053			
			13	853
14	1140			
			16	210
16	1113			
			38	2070
25	1123			
			32	2069
10	1112			
			19	2044
11	1096			
			33	4169
7	1155			

240 220 200 180 160 140 120 100 80 60 40 20 10 ℄

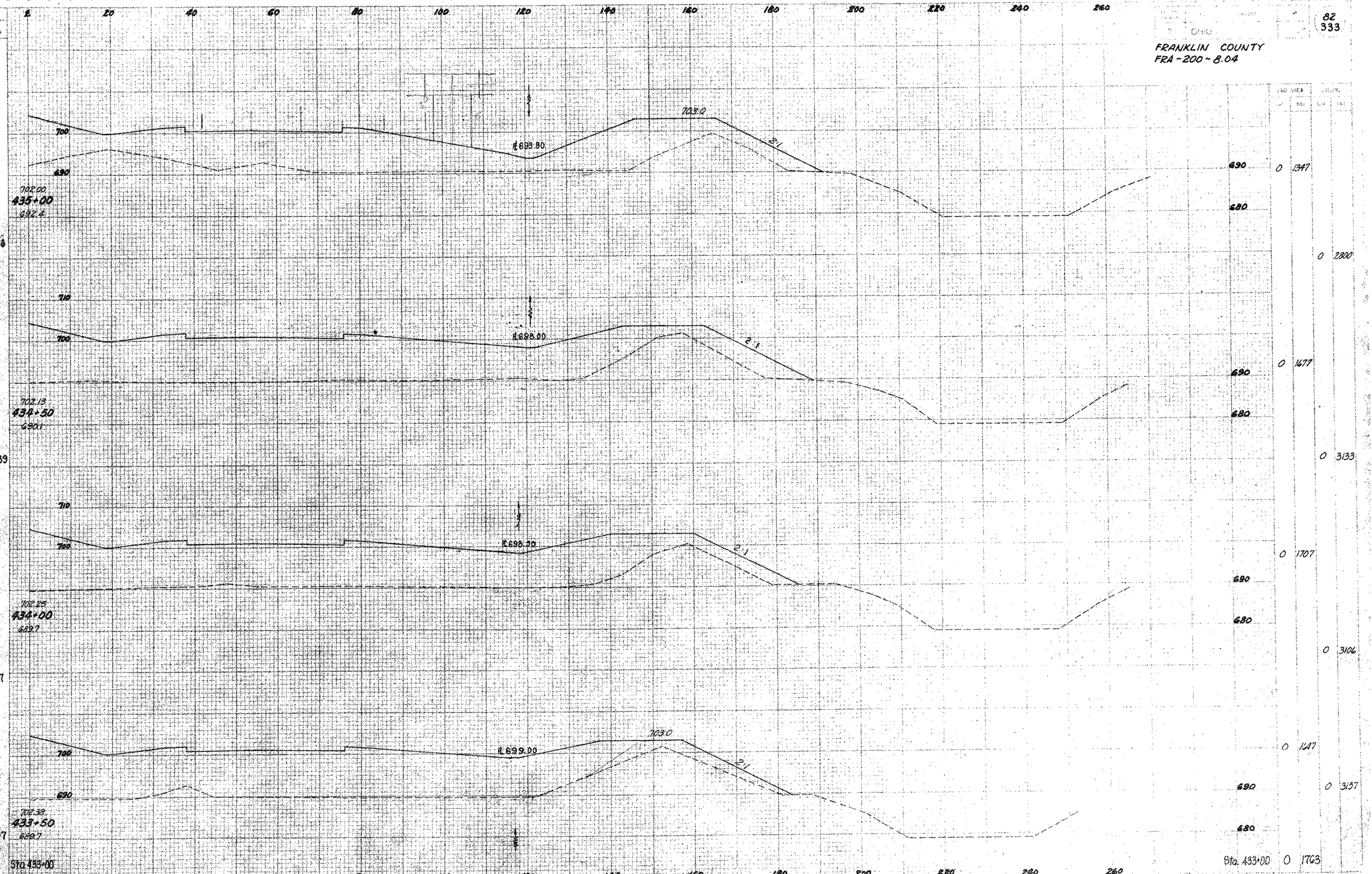
2,888 Y Surchage Sta 431+00 to Sta 433+00 15

FRANKLIN COUNTY
FRA-200-8.04

SEEDING

END WIDTH	SQ YDS
112	
	580
99	
	539
95	
	517
91	
	497
88	

Sta 433+00



S.R.200 X-Sections Sta. 433+50 to Sta. 435+00 Rt.

FRANKLIN COUNTY
FRA-200-8.04

STEERING

END WIDTH	CD TOS
116	
	644
116	
115	
	642
115	
	639
115	

Sta 433+00

240 220 200 180 160 140 120 100 80 60 40 20 ℄

Culvert Sta 434+75
1-24" R.C.P. C.S. 75.10' Lt.

700	690	3:1	℄ 686.05	2:1	℄ 699.90
700	690	3:1	℄ 686.25	2:1	℄ 700.03
700	690	3:1	℄ 688.60	2:1	℄ 700.15
700	690	3:1	℄ 688.7	2:1	℄ 700.28

702.00	435+00	692.4	235	1126
702.13	434+50	690.1	95	1003
702.25	434+00	689.7	32	1053
702.38	433+50	689.7	20	1092
			19	1053

306 1971
118 1904
48 1986
36 1986

Sta 433+00

240 220 200 180 160 140 120 100 80 60 40 20 ℄

S.R. 200 X-Sections Sta. 433+50 to Sta. 435+00 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

2

SEEDING
SQ. YDS.

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
439+00				
438+00				
437+00				
436+00				

Sections Sta. 436+00 to Sta. 439+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

06
333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING
END SD. WIDTH YDS.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

END AREA CUT FILL | VOLUME CUT FILL

700
690
223
℄ 685.65
2:1
℄ 701.40
℄ 701.40
℄ 695.40
703.50
443+00
689.8
2584
700
690
232
℄ 687.45
2:1
℄ 701.06
℄ 701.15
℄ 695.20
703.25
442+00
689.3
2572
700
690
251
℄ 687.25
2:1
℄ 700.65
℄ 700.90
℄ 695.00
703.00
441+00
690.6
2567
700
690
231
℄ 687.05
2:1
440+25 11' Rt
Std. No. 8 C.B.
E. Grate 698.81
℄ 696.70
15" Class A-1
440+25 112' Rt
15" Outlet
E 695.50
℄ 694.80
HW-E. Endwall
702.75
440+00
690.1
2567
231
Sta. 439+00

21 2870 65 10691
14 2906 170 10359
78 2688 283 10076
75 2754
72 2823 272 10329
Sta. 439+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200-6.04

SEEDING END WIDTH / SQ. YDS.

END AREA CUT / FILL — VOLUME CUT / FILL

447+00 — 704.50 — 689.7
- 140 / 120 / 100 / 80 / 60 / 40 / 80 / ℄ / 20 / 40 / 60 / 80 / 100 / 120 / 140
- 700 — 2:1 — 12:1 — 2:1 — 700
- ℄ 688.45 — ℄ 702.40 — ℄ 702.40 — ℄ 696.70 — ℄ 693.8
- 690
- 231 — 2572
- 680
- END AREA CUT 9 FILL 32.02 — VOLUME CUT 57 FILL 1335

446+00 — 704.25 — 690.6
- 700 — 2:1 — 2:1 — 700
- ℄ 688.20 — ℄ 702.15 — ℄ 702.15 — ℄ 696.00 — ℄ 689.6
- 690
- 232 — 2584
- 680
- END AREA CUT 22 FILL 29.15 — VOLUME CUT 81 FILL 1093

445+00 — 704.00 — 689.8
- 700 — 2:1 — 2:1 — 700
- ℄ 688.05 — ℄ 701.90 — ℄ 701.90 — ℄ 695.80
- 690
- 233 — 2584
- 680
- END AREA CUT 22 FILL 29.84 — VOLUME CUT 70 FILL 1093

444+00 — 703.75 — 689.4
- 700 — 2:1 — 12:1 — 2:1 — 700
- ℄ 687.85 — ℄ 701.66 — ℄ 701.65 — ℄ 695.60
- 690
- 232 — 2584
- 680
- END AREA CUT 16 FILL 29.47 — VOLUME CUT 69 FILL 1079

Sta. 443+00 — 21 2870

Sta. 443+00
140 / 120 / 100 / 80 / 60 / 40 / 20 / ℄ / 20 / 40 / 60 / 80

S.R. 200 X-Sections Sta. 444+00 to Sta. 447+00

FED. HWY DIVISION	STATE	PROJECT	
2	OHIO		

88
333

FRANKLIN COUNTY
FRA-200-8.04

SEEDING

END STATION	SQ. YDS.

END AREA VOLUME

CUT	FILL	CUT	FILL

Match Line See Scioto River Channel Sections

Match Line See Scioto River Channel Sections

705.16
449+63
686.3

705.14
449+53
691.2

705.00
449+00
690.9

704.75
448+00
690.2

END GRADING & WORK STA. 449+50

Begin Special Ditch Left
Sta. 449+40

End Project Sta. 448+00

Sta. 449+50 O O

9 2730
10 2948
12 10669
14 2819
14 11140

Sta. 447+00 9 3202

Sta. 447+00

S.R. 288 X-Sections Sta. 447+00 to Sta. 449+63

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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891

FRANKLIN COUNTY
FRA-200-8.04

Match Line A-A

Ramp "A"

Ramp "E"

Ramp "B"

Ramp "F"

Ramp "C"

Ramp "D"

Ramp "G"

Ramp "H"

Ramp "I"

Ramp "A"

Struct. No. FRA-200-0806
See Sheet No. 249

Struct. No. FRA-200-0819
See Sheet No. 261

Struct. No. FRA-200-0822
See Sheet No 261

Begin Work
Sta. 371+32

Begin Project
Sta. 378+00
S.L.M. 8.04

Sta. 555+16.00 ℄ So. Freeway
Sta. 551+59.09 ℄ Outerbelt

℄ Existing South Freeway

℄ Survey S.R. 200 (1961)

Struct. No. FRA-200-
Ramp "A" Under I-71
See Sheet No. 277

Match Line B-B

Begin Work
Sta. 459+50

End Work
Sta. 518+80

Ramp "A"

Ramp "E"

Match Line A-A

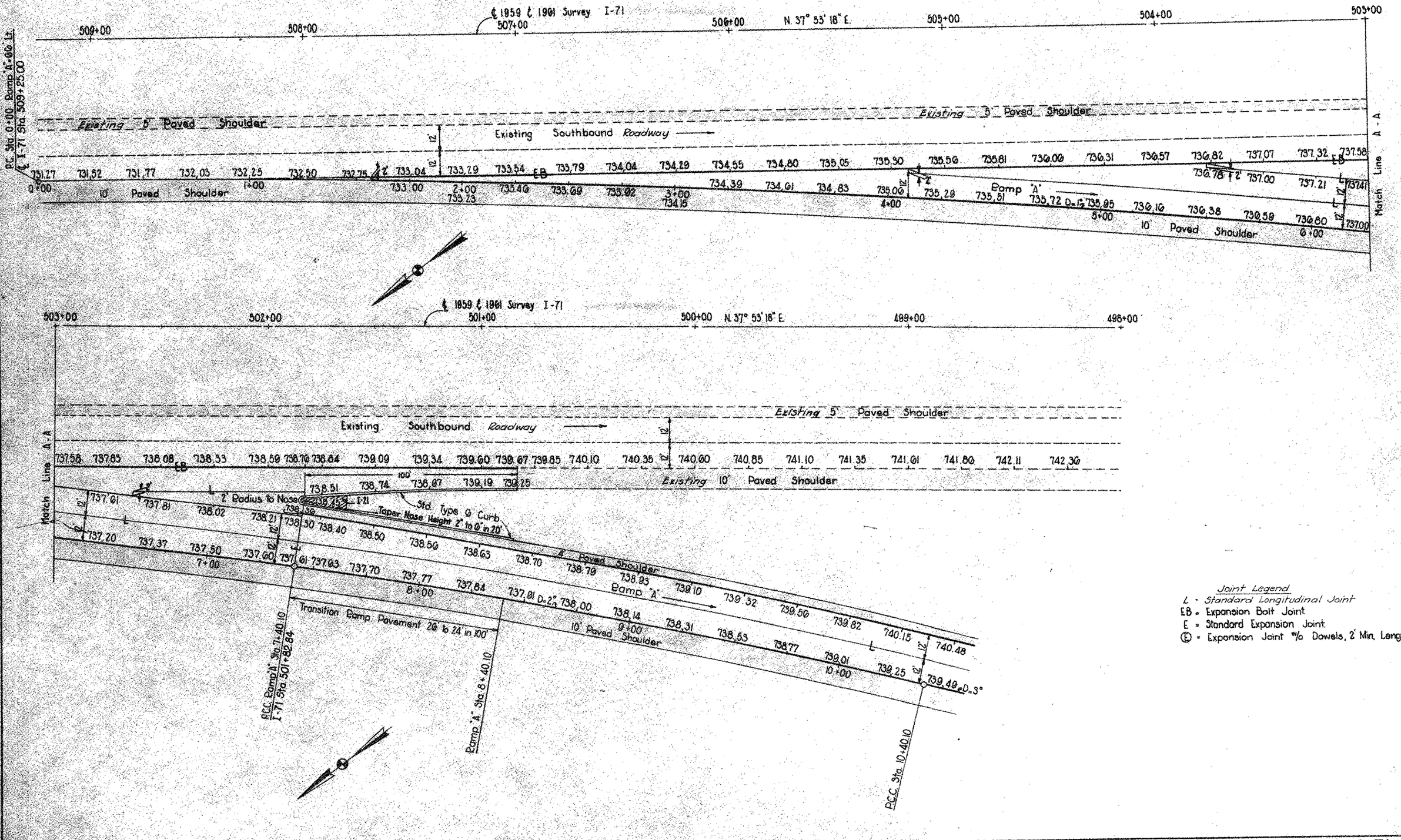
Match Line B-B

I-71 Interchange Grading Plan

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-700-8.04

90
333



Joint Legend
L - Standard Longitudinal Joint
EB - Expansion Bolt Joint
E - Standard Expansion Joint
(E) - Expansion Joint W/o Dowels, 2' Min. Length.

Intersection Details Ramp "A" Exit From I-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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Intersection Details - Ramp "A" Entrance To S.R. 200

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.84

92/333

Sta. 381+89.09 ℄ S.R. 200 =
Sta 485+26.00 ℄ I-71

381+00 380+00 S. 53° 51' 07" E. 379+00 ℄ 1961 Survey S.R. 200 378+00 377+00 376+00

Grading Only *

4' Paved Shoulder

Proposed Westbound Roadway

732.29 732.44 732.43 732.60 732.97 733.14 733.31 733.48 733.65 733.82 733.99 734.16 734.33 12' 734.50 734.67 734.84 735.01 735.18 735.35 735.52 735.68 735.85 736.02 736.19

732.10 732.27 732.44 732.61 732.78 732.95 733.12 733.29 733.46 733.63 733.80 733.97 734.14 12' 734.31 734.48 734.65 734.82 734.99 735.16 735.33 735.49 735.66 735.83 736.00

10' Paved Shoulder 10' Paved Median 3' Paved Shoulder

732.81 732.98 733.21 733.44 733.67

"I" C-D Road Elevations in Ramp "B" Stationing

"I" C-D Road Elev's in S.R. 200 Stationing

731.75 731.92 732.09 732.26 732.43 732.60 732.77 732.94 733.11 733.27 733.44 733.62 733.79 733.97 734.14 734.31 734.48 734.65 734.82 734.99 735.15 735.37 735.54 735.71

731.94 732.11 732.28 732.45 732.62 732.79 732.96 733.13 733.30 733.39 733.50 733.40 2' 733.64 733.72 733.89 2' 734.06 734.23 734.40 734.57 734.74 734.90 735.12 735.29 735.46

"I" C-D Road

731.75 731.92 732.09 732.26 732.43 732.60 732.77 732.94 733.11 733.27 733.32 733.41 733.57 733.25 733.07 732.81 732.54 733.96 733.83 734.07 734.24 100' 734.41 734.57

9+00 10' Paved Shoulder 10+00 11+00 2' Radius to Nose Taper Nose Height 2" to 6" in 20'

8' Paved Shoulder

Grading Only *

Transition Paved Shoulder 10' to 3' in 200'

Std. Type 6 Curb

733.60 733.45 732.26 732.04 733.35 RAMP "B" 731.94 732.02 733.35 13.00 3' Paved Shoulder 8' 8'

Limits of Paving of "I" C-D Road Sta. 376+66.58 To L.F. to 113 L.F.

Nose Sta 11+86.83 ℄ S.R. 200 Sta 377+66.58

S.C. Sta 12+00.00

C.S. Sta 20+85.28

Sta 12+86.83

Sta 21+80.00 Begin Curb

749.43 749.10 749.97 750.76 751.00 750.51 750.78 750.24 751.17 751.05 751.32 751.59 751.84 751.30 751.43 751.37 751.71 751.97 751.85 752.12 752.40 752.21 752.05 752.39 752.75 752.74 752.35 752.31 752.22 752.10 751.89 751.69 751.61 751.19 751.41 752.96 752.74 752.58 752.38 752.18 751.98 751.78 751.57 751.37 751.15 750.94 750.72 750.51

21+00 22+00 23+00

3' Paved Shoulder 3' Paved Shoulder RAMP "B"

I-12 Special Concrete Curb See Sheet No. 216

Transition Paved Shoulder 3' to 2' in 100'

Existing 10' Paved Shoulder

Existing Southbound Roadway

Existing 5' Paved Shoulder

Structure No. FRA 200-0819

P.O.T. Sta 23+04.22 Ramp "B" = 95'-4" ℄ I-71 Sta. 485+52.00

Ramp Pavement Width Tapers Uniformly to Zero at Sta. 37+04.10 For Elevations See Sheet No. 161

P.T. Sta 22+85.28 ℄ I-71

P.T. Sta 10+00.00 Ramp "B" = 113' Lt. ℄ S.R. 200 Sta 379+59.08

N. 37° 53' 18" E.

381+00 S. 53° 51' 07" E. ℄ 1959 ℄ 1961 Survey S.R. 200

Sta. 485+26.00 ℄ I-71
Sta 381+89.09 ℄ S.R. 200

480+00 487+00 ℄ 1959 ℄ 1961 Survey I-71 488+00 N. 37° 53' 18" E. 489+00 490+00

Note *
All elevations shown are pavement elevations.

Joint Legend
L = Standard Longitudinal Joint.
LK = Longitudinal Key Joint w/o Tie Bars.
EB = Expansion Bolt Joint.
E = Standard Expansion Joint.
C = Contraction Joint

Intersection Details - Ramp "B" Exit From "I" C-D Road & Entrance To I-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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Note : Profile Grade Crosses Ramp "A" Pavement @ Sta. 19 + 22.78

P.O.C. Sta 0+00.00 Ramp "A"
C.S. Sta 16+22.79 Ramp "A"

S.T. Offset 24' Lt. Sta. 19+22.79 Ramp "A"

T.S. Sta 19+39.25 Ramp "A"

Nose Sta 21+34.25

S.C. Sta. 21+89.25 Ramp "A"

Joint Legend
- L = Standard Longitudinal Joint.
- LK = Longitudinal Key Joint w/o Tie Bars.
- E = Standard Expansion Joint.
- (E) = Expansion Joint w/o Dowels, 2' Min. Length.
- C = Construction Joint.

17+00 18+00 19+00 20+00 21+00 22+00 23+00

Ramp "A" — Transition Paved Shoulder 10' to 3' in 300'

4' Paved Shoulder — 10' Paved Shoulder — 2' Radius to Nose — Taper Nose Height 2" to 6" in 20' — Std. Type 6 Curb

Sta 3+00.00 Ramp "C"

Ramp "C" — Transition Ramp Pavement 18' to 16' in 100' — 3' Paved Shoulder

Nose - Sta 4+65.47 23' Left

Limits of Paving Sta. 5+45.47 P.C.C. Sta. 5+71.74 Limits of Grading — Not a part of this Contract *

370+00 S. 55° 51' 07" E. 369+00 368+00 ℄ 1961 Survey S.R. 200 367+00 366+00 365+00

Not a part of this Contract

4' Paved Shoulder — Proposed Westbound Roadway

10' Paved Shoulder — Paved Median — 3' Paved Shoulder — Transition Paved Shoulder 3' - 2' in 100'

I-71 C-D Road — 8' Paved Shoulder — 8' Paved Shoulder

I-12 Special Concrete Curb See Sh. No. 216

Transition Paved Shoulder 3' to 2' in 100' — Transition Paved Shoulder 3' to 8'

Ramp "C" — Transition Ramp Pavement 16' to 14' in 100' — Transition Ramp Pavement 18' to 14'

Begin Curb Sta 9+82.17 — Sta 10+82.17 — Sta 11+82.17 Ramp "C" ℄ SR 200 Sta 368+83.96 — C.S. Sta 13+25.79 — Sta 14+28.10 — 97 Sta 15+25.79 — See Sheet No. 94

10+00 11+00 12+00 13+00 14+00 15+00 16+00

Note *
All elevations shown are pavement elevations.

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.84

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304+00 303+00 S. 53° 15' 07" E. 302+00 ℄ 1961 Survey S.R. 200 301+00 300+00 P.T. Sta 299+88.17 S.R. 200 359+00 D = 0° 30' 358+00

Match Line A-A

Not a part of this Contract

4' Paved Shoulder

744.15 744.32 744.49 744.66 744.83 745.00 745.17 745.34 745.51 745.68 745.85 746.02 746.19 746.36 746.53 746.70 746.87 747.04 747.21 747.38 747.55 747.72 747.89 748.07 748.25 748.34 748.47 748.59
744.34 744.51 744.68 744.85 745.02 745.19 745.36 745.53 745.70 745.87 746.04 746.21 746.38 746.55 746.72 746.89 747.06 747.23 747.40 747.57 747.74 747.91 748.07 748.25 748.34 748.47 748.59

Proposed Westbound Roadway

744.15 744.32 744.49 744.66 744.83 745.00 745.17 745.34 745.51 745.68 745.85 746.02 746.19 746.42 746.66 746.89 747.12 747.36 747.59 747.76 747.93 748.10 748.26 748.40 748.53 748.66 748.76

10' Paved Shoulder — Ramp "C" —

743.75 743.91 744.08 744.35 744.62 744.62 744.80 744.97 745.15 745.32 745.50 745.67 745.87 746.14 746.45 746.75 747.04 747.34 747.63 747.93 748.20 748.36 748.51 748.64 748.76 748.89 749.00
743.51 743.67 743.85 744.12 744.40 744.40 744.62 744.80 744.97 745.15 745.32 745.50 745.67 745.87 746.14 746.45 746.75 747.04 747.34 747.63 747.93 748.20 748.36 748.51 748.64 748.76 748.89 749.00

17 18 19 20 21 22 23

8' Paved Shoulder

Transition Ramp Pavement 18' to 14'

End Ramp Median Sta 1+76.179 Ramp C Sta 302+88.17 S.R. 200

P.C. Sta 299+64.32

Match Line A-A

Not a part of this Contract

4' Paved Shoulder

748.52 748.62 748.72 748.82 748.92 749.02 749.12 749.22 749.32 749.41 749.51 749.61 749.71 749.81 749.91 750.01 750.11 750.21 750.31 750.41 750.51 750.61 750.71 750.81 750.91 751.01 751.11 751.21
748.71 748.81 748.91 749.01 749.11 749.21 749.31 749.41 749.51 749.61 749.71 749.81 749.91 750.01 750.11 750.21 750.31 750.41 750.51 750.61 750.71 750.81 750.91 751.01 751.11 751.21

Proposed Westbound Roadway

748.90 749.00 749.10 749.20 749.30 749.40 749.50 749.60 749.70 749.80 749.90 750.00 750.10 750.20 750.30 750.40 750.50 750.60 750.70 750.80 750.90 751.00 751.10 751.21 751.29 751.38
748.90 749.00 749.10 749.20 749.30 749.40 749.50 749.60 749.70 749.80 749.90 750.00 750.10 750.20 750.30 750.40 750.50 750.60 750.70 750.80 750.90 751.00 751.10 751.21 751.29 751.38

Ramp "C"

749.11 749.20 749.29 749.38 749.48 749.57 749.66 749.75 749.84 749.92 750.02 750.11 750.20 750.29 750.38 750.48 750.57 750.66 750.75 750.84 750.93 751.02 751.11 751.21 751.29 751.38

24 25 26 27 28 29 30 31 32

8' Paved Shoulder

Transition Paved Shoulder from 8' to 10' in 480'

Sta 2+67.82

Joint Legend

L = Standard Longitudinal Joint
LK = Longitudinal Key Joint w/o Tie Bars
E = Standard Expansion Joint
(E) = Expansion Joint w/o Dowels, 2' Min. Length

End Paver Ramp C Sta 2+67.82 ± Ø Ramp C Sta 302+88.17 S.R. 200 Sta 300+88.17

Intersection Details-Ramp C & T-6 Road Entrance Tool

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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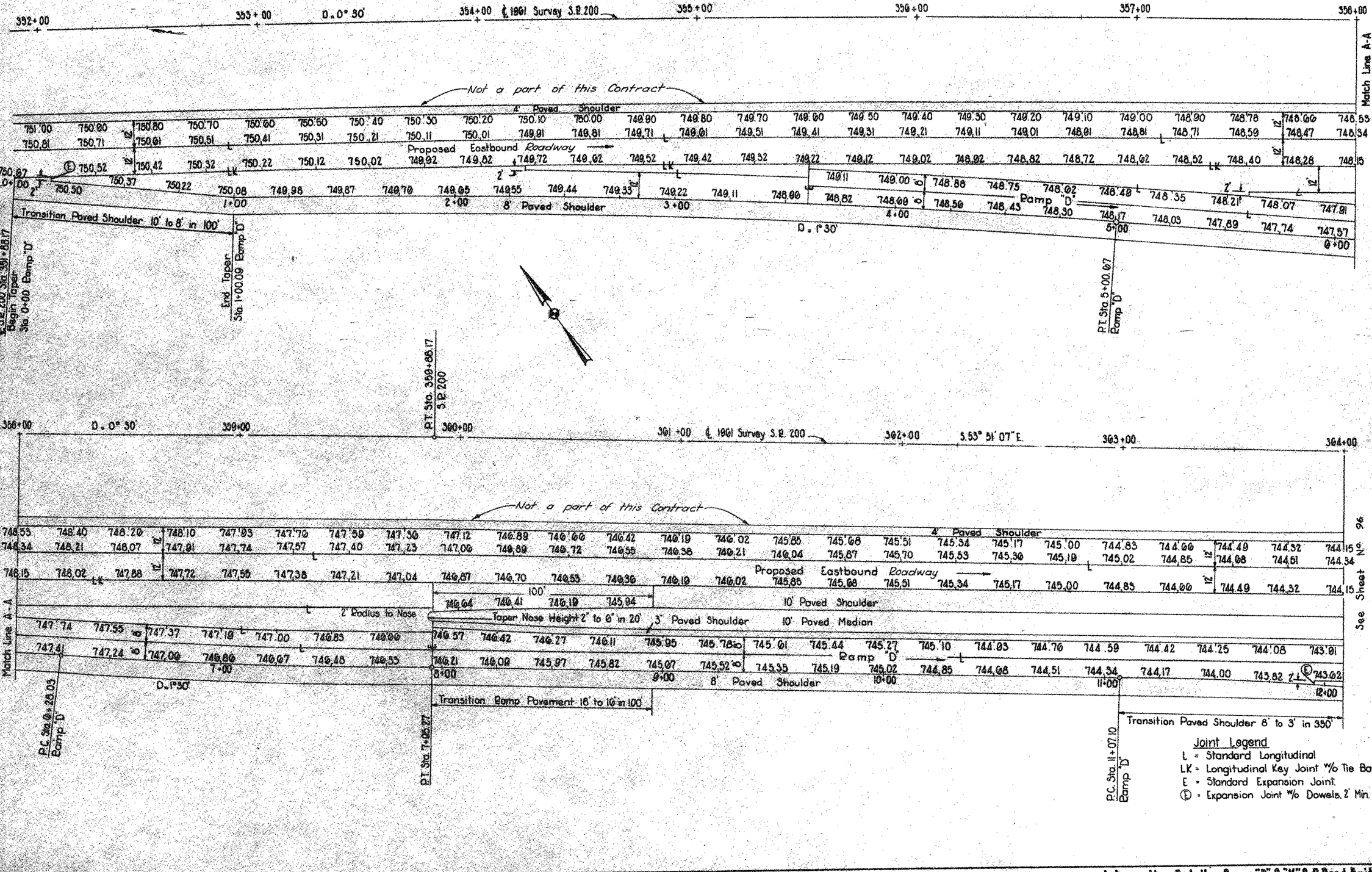
333

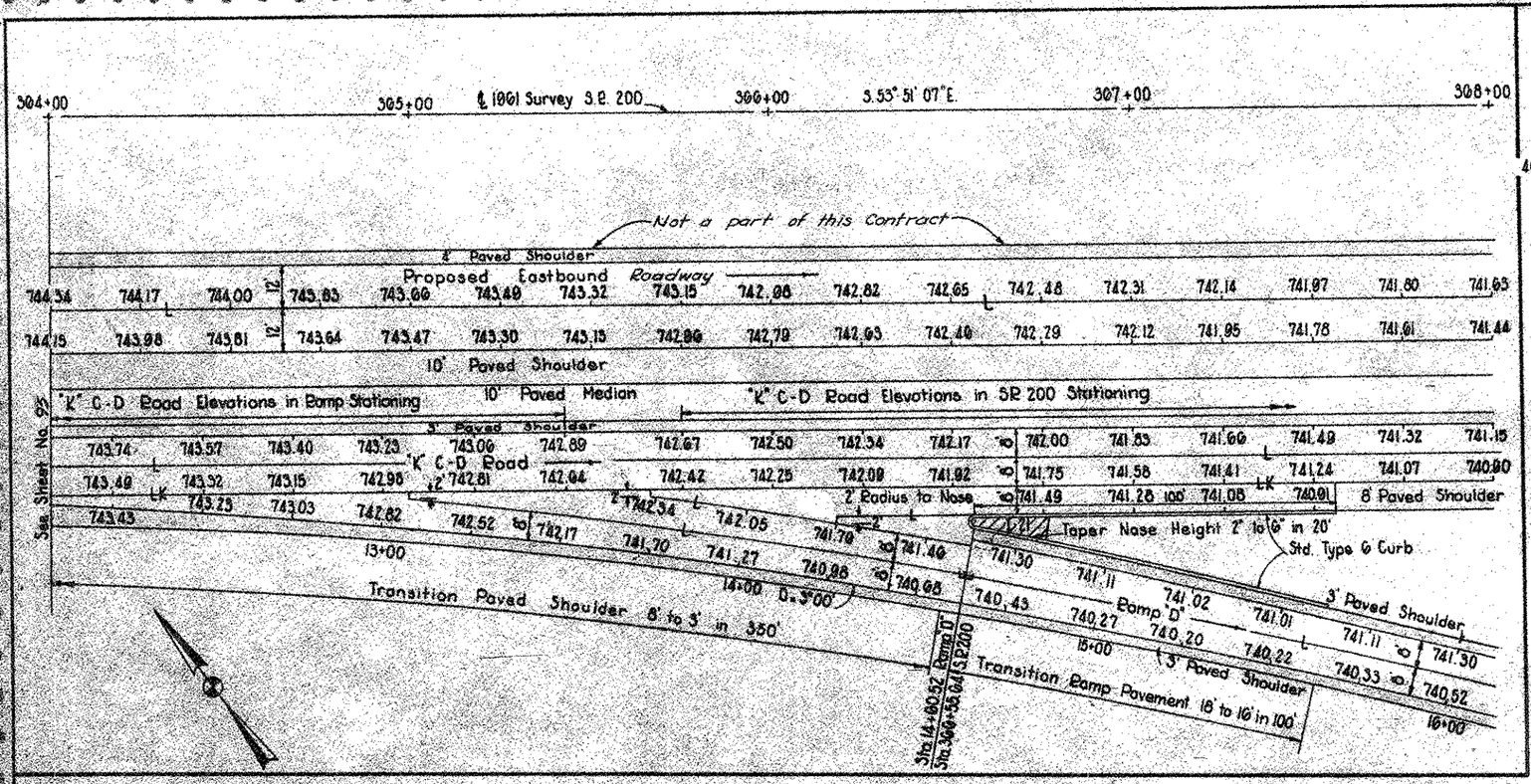


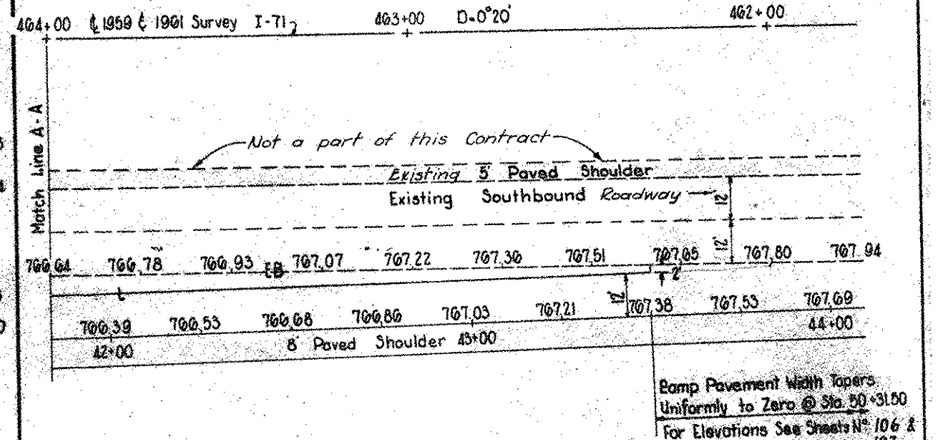
Intersection Details - Ramp "D" & "K" C-D Road Exit From S.R. 200

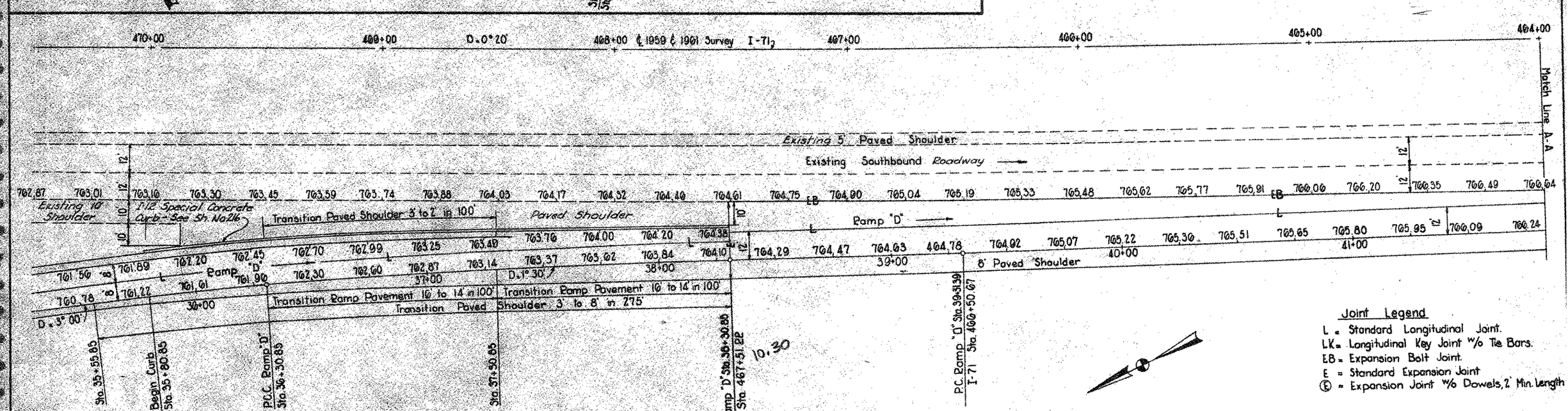
FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

96
333

FRANKLIN COUNTY FRA-200-3.08







Joint Legend

L = Standard Longitudinal Joint.
LK = Longitudinal Key Joint w/o Tie Bars.
EB = Expansion Bolt Joint.
E = Standard Expansion Joint
Ⓔ = Expansion Joint w/o Dowels, 2' Min. Length

Note *
All elevations shown are pavement elevations.

Intersection Details - Ramp "D" Exit From "K" C-D Road & Entrance to I-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-100-8.04

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412+00 411+00 ℄ 1901 Survey S.R. 200 410+00 409+00 S 53°51'07" E 408+00 407+00 406+00

4' Paved Shoulder

Proposed Westbound Roadway →

10' Paved Shoulder

2 3 4 5 6 7 8 9

Match Line A-A

405+00 404+00 ℄ 1901 Survey S.R. 200 403+00 402+00 S 53°51'07" E 401+00 400+00

4' Paved Shoulder

Proposed Westbound Roadway →

2' Radius to Nose

Taper Nose Height 2" to 6" in 20'

10' Paved Median

3' Paved Shoulder

Ramp "E"

10 11 12 13 14 15

Match Line A-A

See Sheet No. 98

P.C. Ramp "E" Sta. 12+34.83

Sta 12+82.63 Ramp "E" Sta 402+33.00 S.R. 200

P.T. Ramp "E" Sta. 14+85.32

Joint Legend

L = Standard Longitudinal Joint
LK = Longitudinal Key Joint W/o Tie Bars
E = Standard Expansion Joint
Ⓔ = Expansion Joint W/o Dowels, 2' Min. Length

Intersection Details - Ramp "E" & "I" C-D Road Exit From S.R. 200

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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399+00 | 398+00 | S.53° 51' 07" E | 397+00 | 396+00 ℄ 1961 Survey S.R.200 | 395+00 | 394+00 | 393+00

Grading Only *

Limits of Paving Sta. 395+00 38'Lt. to 76'Lt.

4' Paved Shoulder

Proposed Westbound Roadway

See Sheet No. 97

"I" C-D Road Elev's in Ramp Stationing | "I" C-D Road Elev's in S.R.200 Stationing

3' Paved Shoulder | 10' Paved Median | 10' Paved Shoulder

"I" C-D Road

2' Radius to Nose

Taper Nose Height 2" to 6" in 20'

Standard Type 6 Curb

8' Paved Shoulder

Ramp "E"

P.C. Ramp "E" Sta 1+00.00

Note *
All elevations shown are pavement elevations.

Nose - Sta 20+68.32 Sta 394+32.66 S.R.200

P.C.C. Ramp "E" Sta 2+49.16

Sta 2+68.32

Transition Ramp Pavement 26' to 24' in 100'

499+00 | 497+00 | N. 37° 53' 18" E. | 496+00 ℄ 1959 ℄ 1961 Survey I-71 | 499+00 | 500+00 | 501+00 | 502+00

Limits of Paving on "I" C-D Rd. Sta. 497+00 80' Rt. to 107' Rt.

Existing 3' Paved Shoulder

Existing Northbound Roadway

3' Paved Shoulder | "I" C-D Road Elev's in I-71 Stationing | "I" C-D Road Elev's in Ramp Stationing | Existing 10' Paved Shoulder

4' Paved Median

"I" C-D Road

8' Paved Shoulder

Grading Only *

Transition Paved Shoulder 4' to 2' in 100'

I-12 Special Concrete Curb - See Sh. No. 216

Ramp "E"

4' Paved Shoulder

10' Paved Shoulder

Transition Ramp Pavement 26' to 24' in 100'

Sta 36+32.93 Begin Curb

C.S. Sta 36+87.18

Sta 37+32.93

S.T. Sta. 39+37.18

See Sheet No. 99

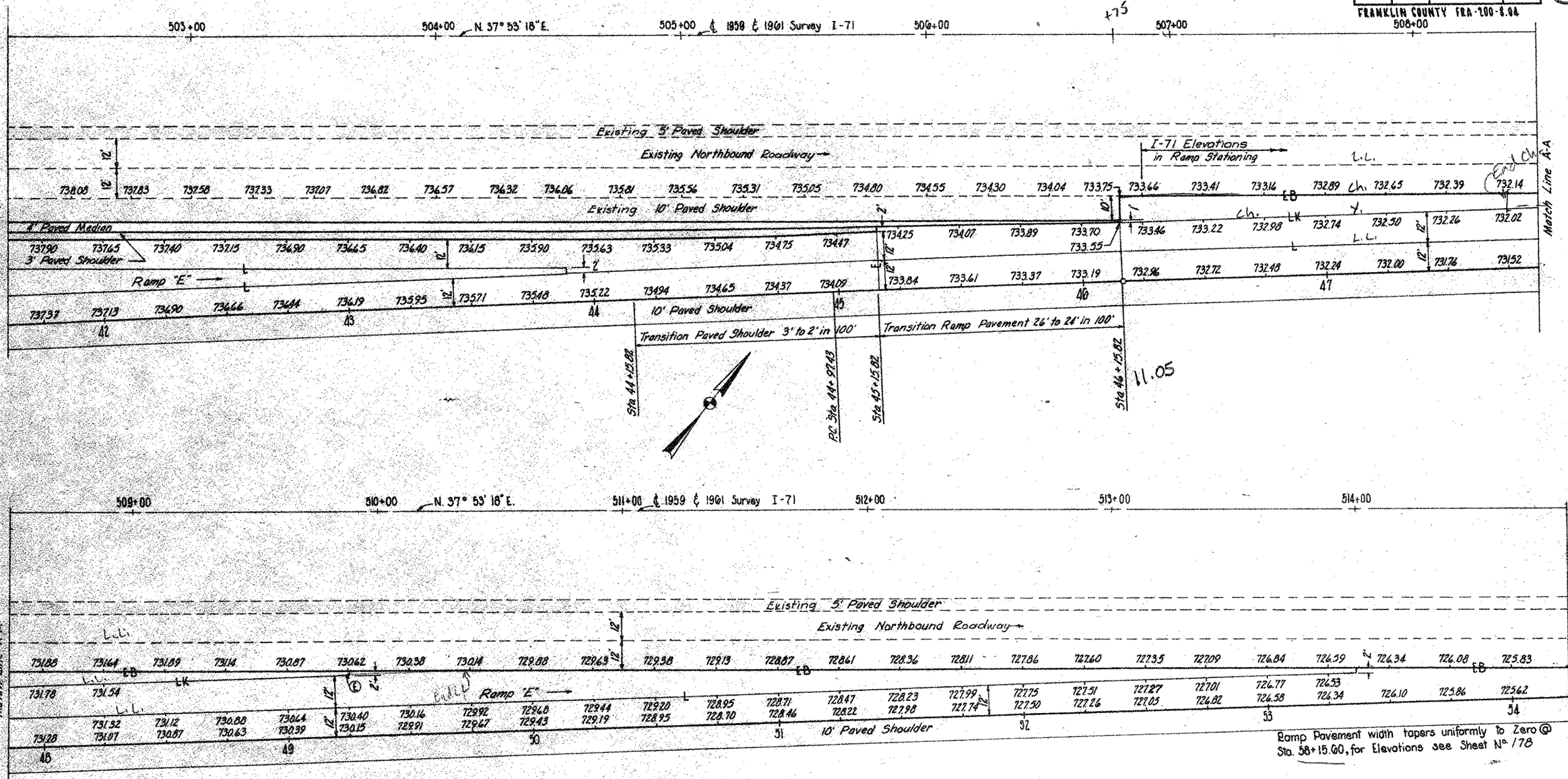
Joint Legend

L = Standard Longitudinal Joint
LK = Longitudinal Key Joint w/o Tie Bars
E = Standard Expansion Joint
Ⓔ = Expansion Joint w/ Dowels, 2' Min. Length
C = Construction Joint.

Intersection Details - Ramp "E" Exit From "I" C-D Road & Entrance To "I" C-D Road

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04



Joint Legend

L = Standard Longitudinal Joint.
LK = Longitudinal Key Joint W/o Tie Bars.
EB = Expansion Bolt Joint.
E = Standard Expansion Joint.
Ⓔ = Expansion Joint W/o Dowels, 2' Min Length.

Intersection Details Ramps "E" & "J" & Road Entrance To I-71

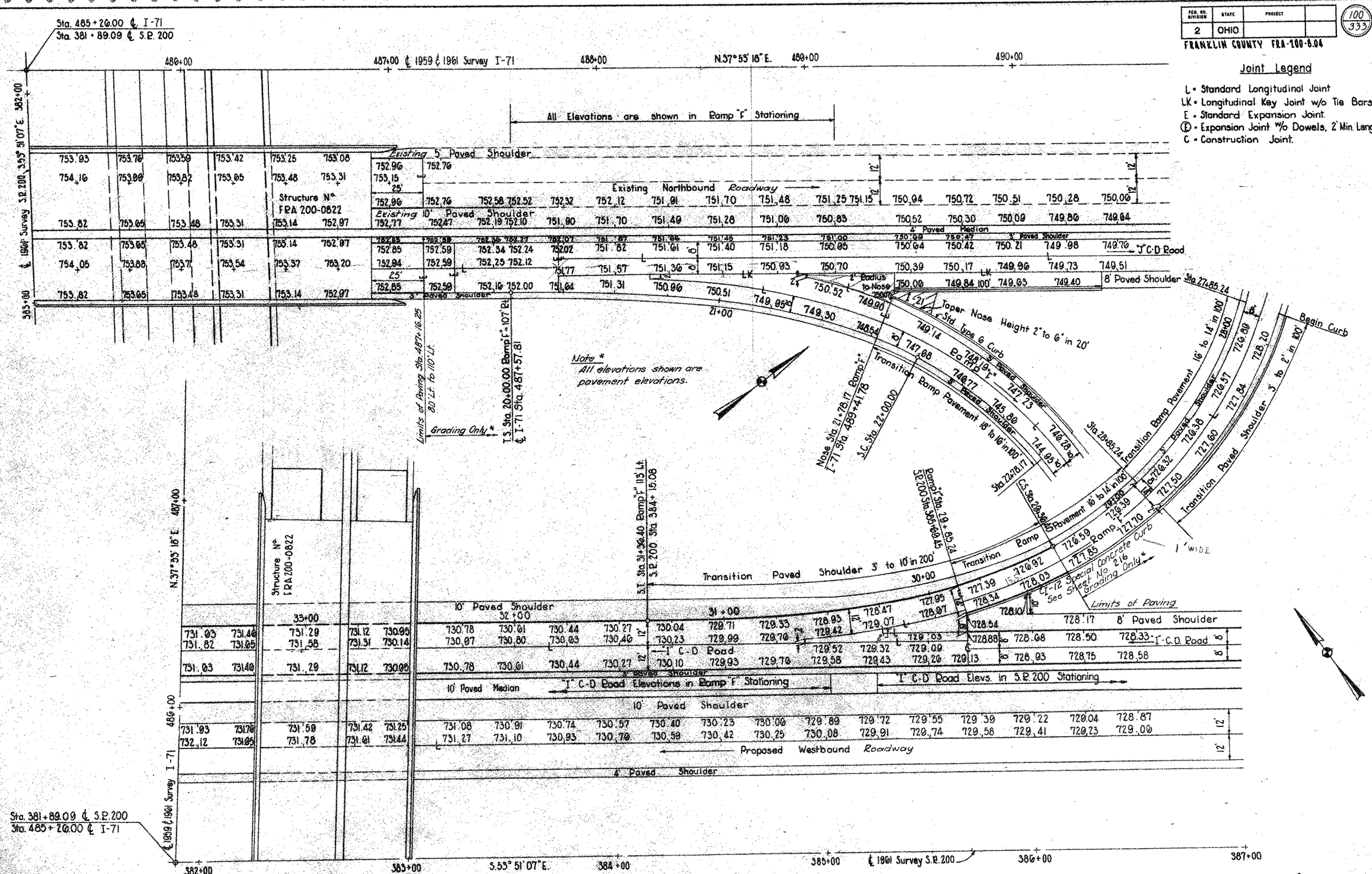
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

100/333

FRANKLIN COUNTY FRA-200-8.04

Joint Legend

L = Standard Longitudinal Joint
LK = Longitudinal Key Joint w/o Tie Bars.
E = Standard Expansion Joint.
Ⓔ = Expansion Joint w/o Dowels, 2' Min. Length
C = Construction Joint.



Intersection Details - Ramp "F" Exit From "I" C-D Road & Entrance To "I" C-D Road

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.08

101/333

382+00 | 383+00 ℄ 1961 Survey S.R. 200 | 384+00 | S. 53° 51' 07" E. | 385+00 | 386+00

Grading Only*

4' Paved Shoulder

Proposed Eastbound Roadway →

731.27 731.10 12' 730.93 730.76 730.50 730.42 730.25 730.08 729.91 729.74 729.57 729.40

731.08 730.91 12' 730.74 730.57 730.40 730.23 730.06 729.89 729.72 729.55 729.38 729.21

10' Paved Shoulder

10 Paved Median

730.75 730.61 3' Paved Shoulder

"K" ℄ - D Road → 730.44 730.37 730.20 Ramp "G" 729.98 729.77 729.67 729.72 729.87

730.53 730.36 730.19 730.00 729.71 729.37 729.04 728.84 728.75 728.79

8' Paved Shoulder

Transition Paved Shoulder 8' to 3' in 200'

729.00 729.33 729.77 730.20 730.66 731.10

3' Paved Shoulder

Sta. 485+26.00 ℄ I-71
Sta. 381+89.09 ℄ S.R. 200

N. 37° 53' 18" E.

485+00 | 484+00

℄ 1959 ℄ 1961 Survey I-71

Structure No. FRA 200-0822

2 PRLD

T.S. Sta. 30+00.00 Ramp "G" 105.81
℄ S.R. 200 Sta. 383+95.81

S.C. Sta. 32+00.00

Sta. 37+97.39

8' 8'

38+00

749.33 750.06 Begin Curb

750.21 751.09 P.d.m.p.6" 751.97

751.50 See Sh. No. 216 752.34

751.18

℄ I-12 Special Concrete Curb Ramp Pavement 16' to 14' in 100'

Transition Paved Shoulder 3' to 2' in 100'

Sta. 38+97.39

39+00

752.76 754.09

℄ I-71 Sta. 481+66.98

Ramp "O" Sta. 39+97.39

C.S. Sta. 39+48.55

Limits of Paving Sta. 483+39.35
80' Rt. to 110' Rt.

S.T. Sta. 41+48.55 Ramp "G" 107.12
℄ I-71 Sta. 483+21.35

40+00

754.28 754.57 754.42 754.71

755.33 755.16 755.91

Transition Ramp Pavement 16' to 14' in 100'

41+00

Transition 8' Paved Shoulder

755.94 756.08 756.23 756.37 756.52 756.66 756.81

℄ C.D. Road

Structure No. FRA 200-0822

755.99 754.16 754.33 754.50 754.67 754.84 755.01

754.22 754.39 754.56 754.73 754.90 755.07 755.24

755.99 754.16 754.33 754.50 754.67 754.84 755.01

755.14 755.20 755.19 755.15 755.07 755.02 755.14 755.34 755.48 755.62 755.70 755.79 755.87 755.91 756.06 756.19 756.33 756.48 756.62 756.77 756.91 757.06

12' 25' 12'

4' Paved Median 4' Paved Shoulder

Existing 10' Paved Shoulder

755.99 754.16 754.33 754.50 754.67 754.84 755.01

754.33 754.50 754.67 754.84 755.01 755.18 755.35

754.10 754.27 754.44 754.61 754.78 754.95 755.12

755.13 756.21 755.25 755.36 755.50 755.64 755.79 755.94 756.07 756.21 756.36 756.50 756.65 756.79 756.94

755.32 755.50 755.64 755.78 755.92 756.06 756.21 756.36 756.49 756.63 756.78 756.92 757.07 757.21 757.36

755.51 755.69

759.32 755.47

12'

← Existing Northbound Roadway

Existing 5' Paved Shoulder

All Elevations are shown in I-71 Stationing

All Elevations are shown in Ramp "G" Stationing

All Elevations are shown in I-71 Stationing

℄ 1961 Survey S.R. 200

382+00

485+00 | 484+00 ℄ 1959 ℄ 1961 Survey I-71 | 483+00 | 482+00 | 481+00 | 480+00

Sta. 485+26.00 ℄ I-71
Sta. 381+89.09 ℄ S.R. 200

N. 37° 53' 18" E.

Note *
All elevations shown are pavement elevations.

Joint Legend
L - Standard Longitudinal Joint
E - Standard Expansion Joint
C - Construction Joint

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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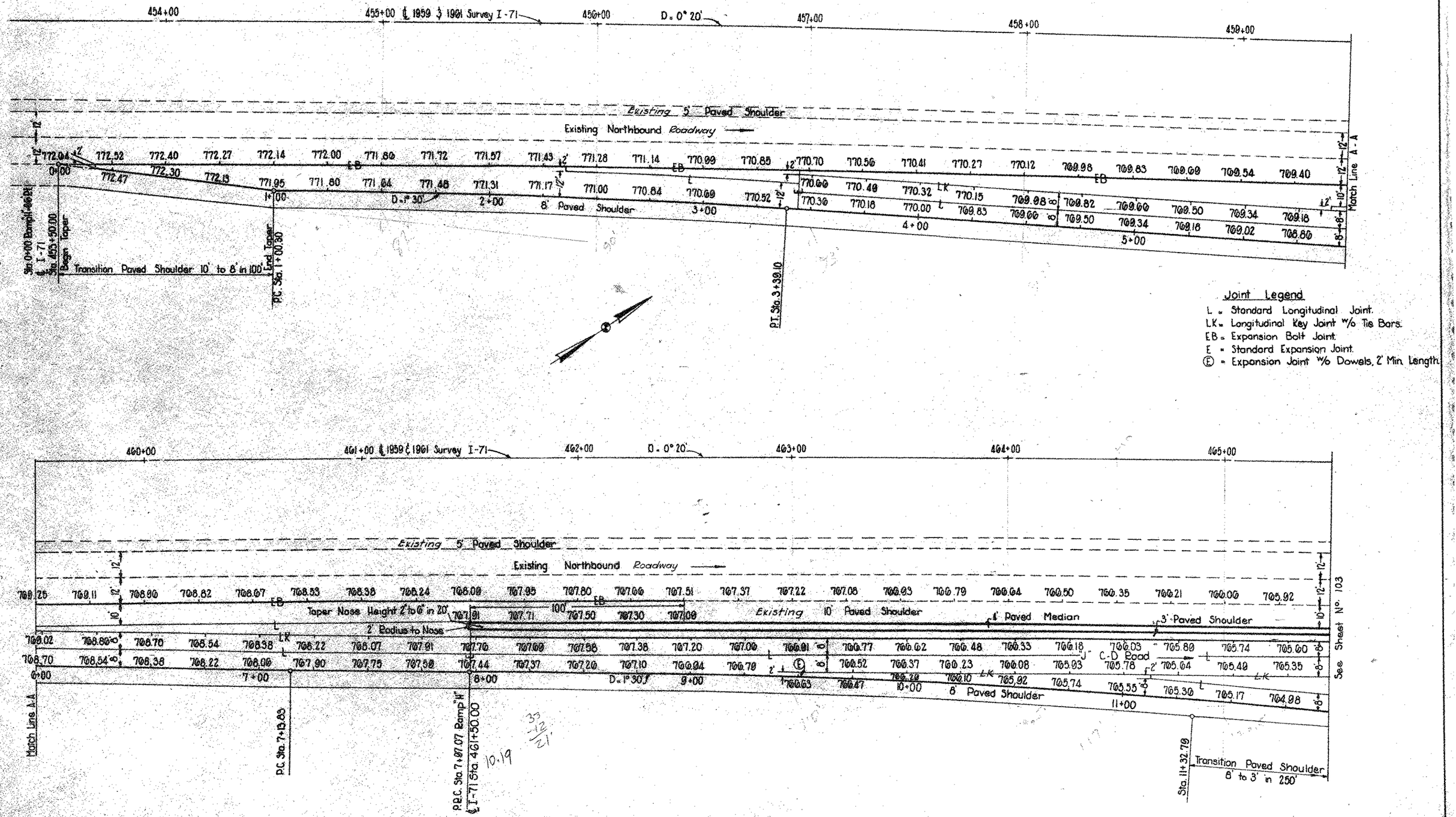

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

103
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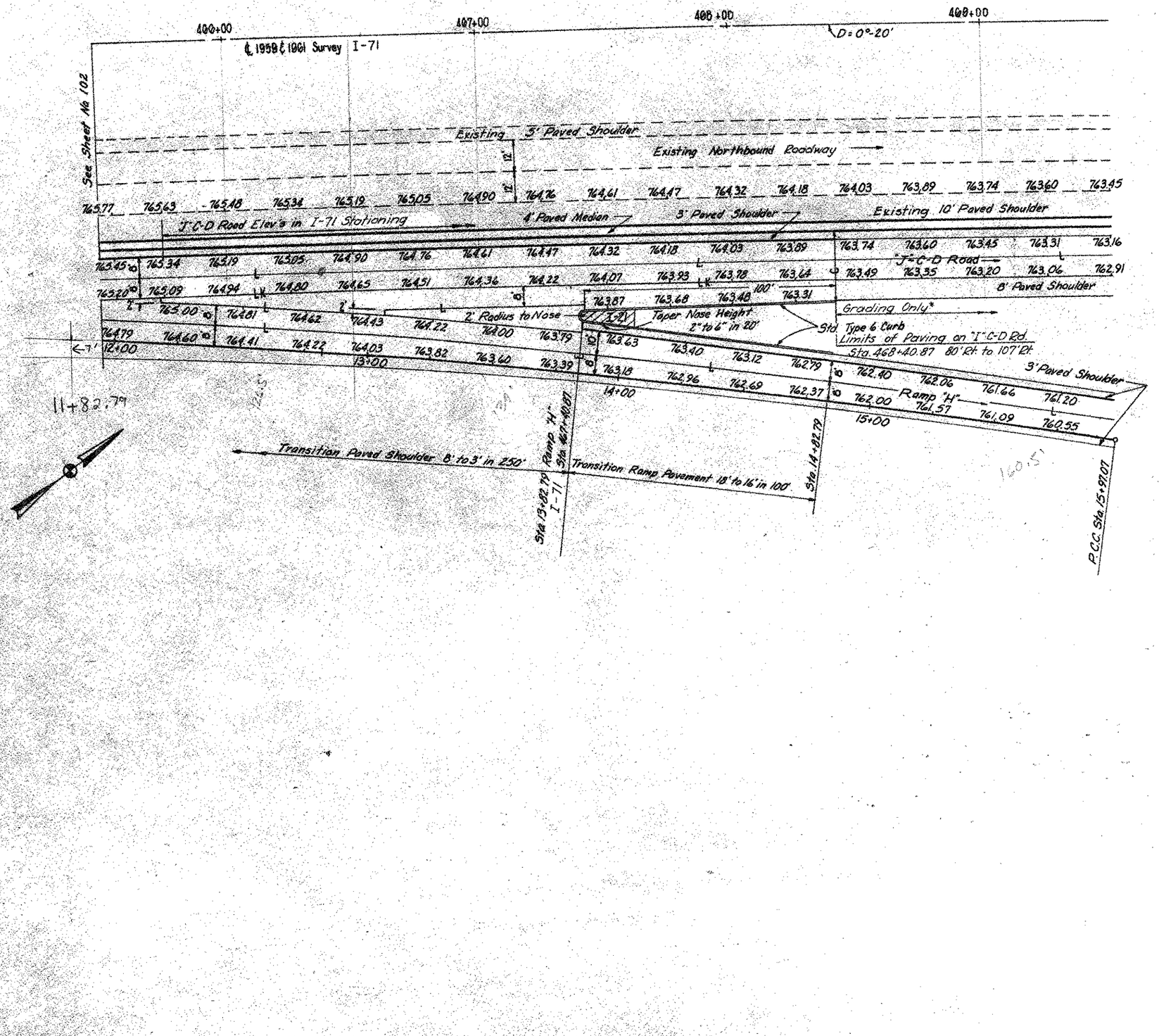

Joint Legend

L = Standard Longitudinal Joint
LK = Longitudinal Key Joint w/o Tie Bars.
E = Standard Expansion Joint
C = Construction Joint

Note *
All elevations shown are pavement elevations.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-100-8.04

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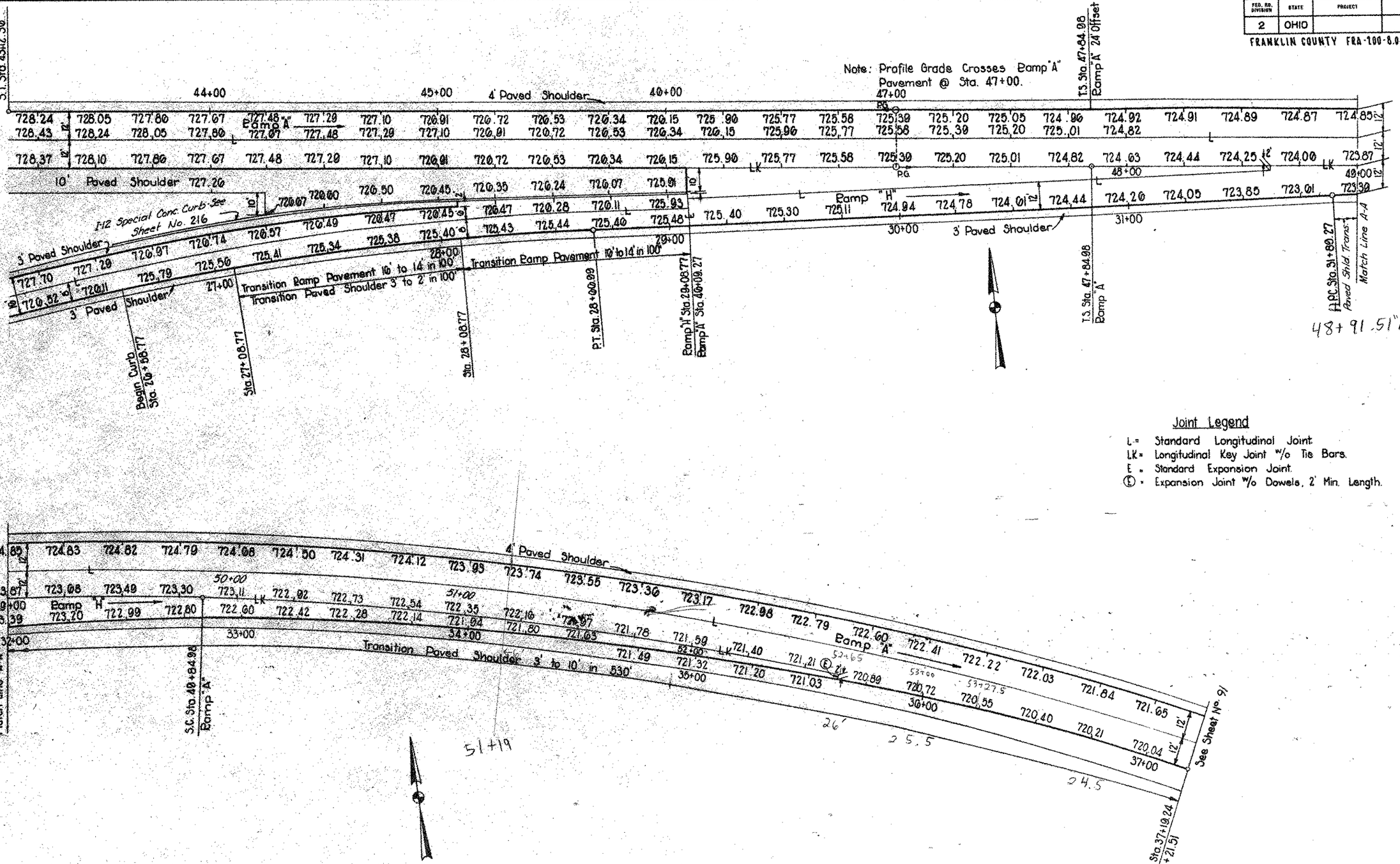
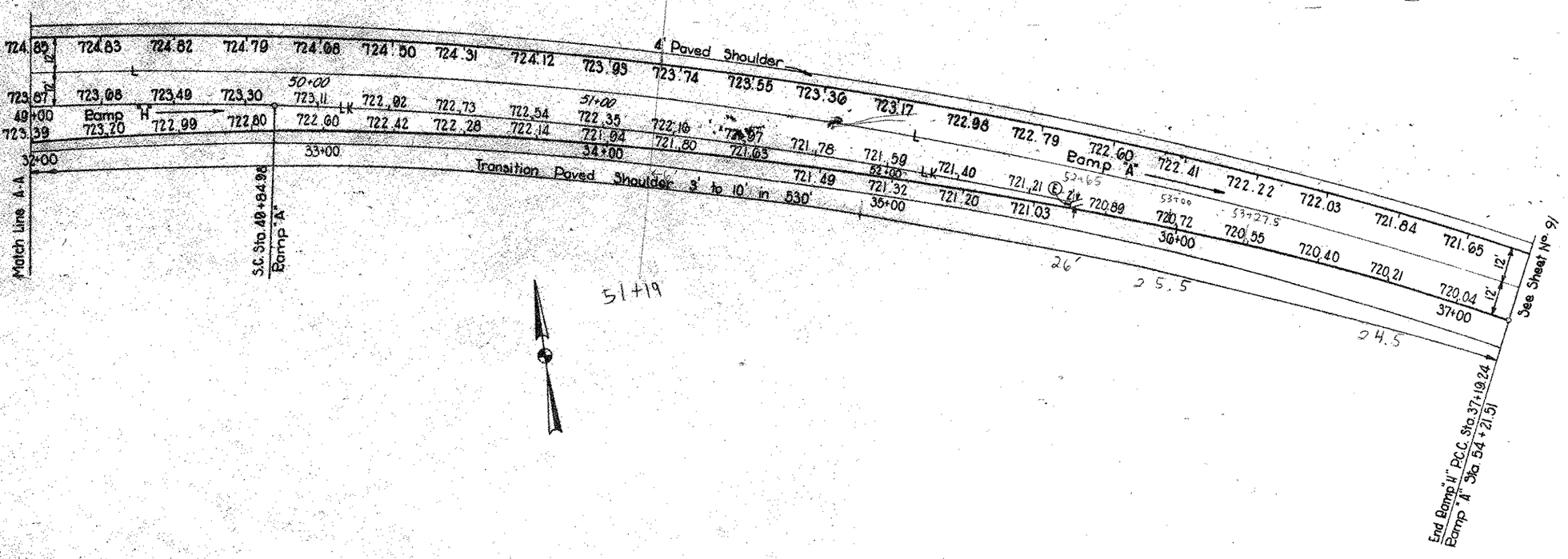


Joint Legend

- L = Standard Longitudinal Joint
- LK = Longitudinal Key Joint w/o Tie Bars.
- E = Standard Expansion Joint.
- Ⓔ = Expansion Joint w/o Dowels, 2' Min. Length.



Intersection Details - Ramp "H" Entrance To Ramp "A"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-286-8.04

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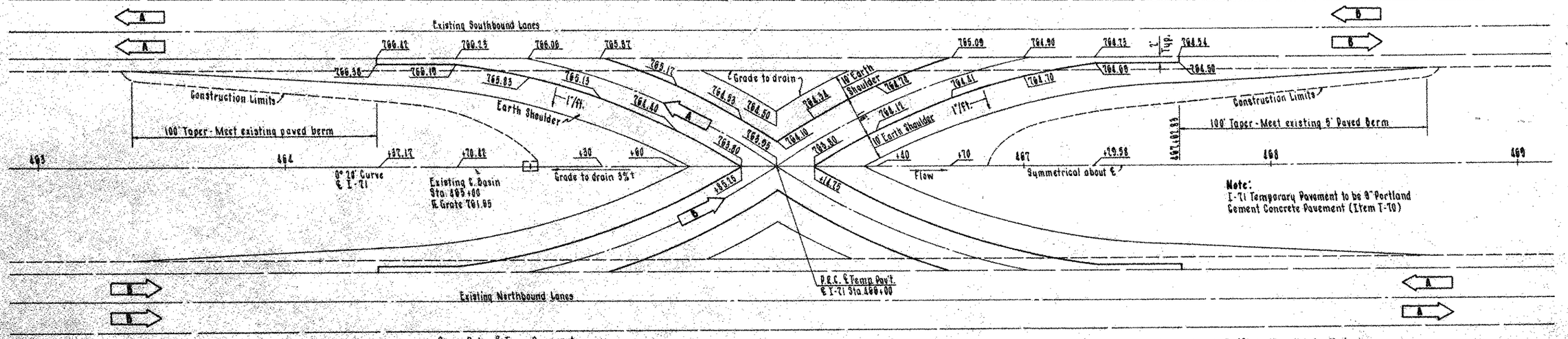
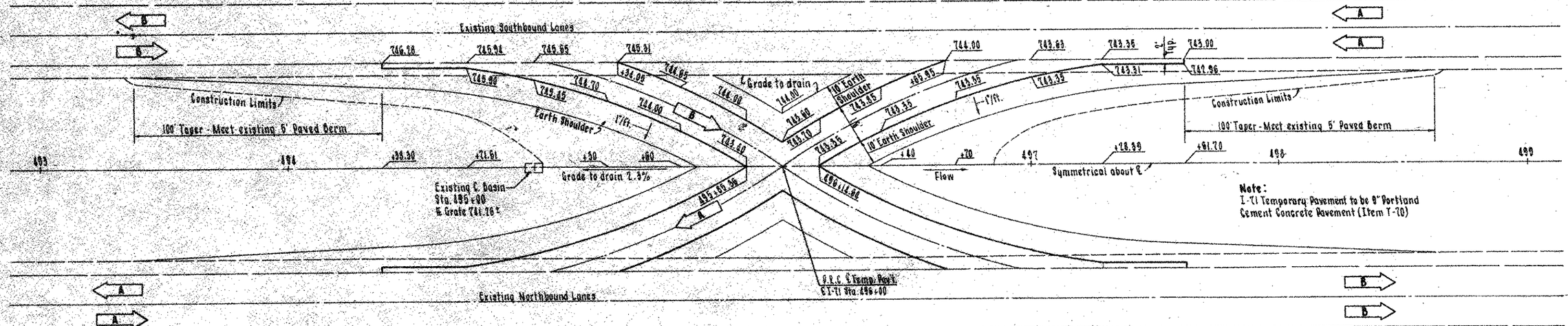


Curve Data - ℄ Temp. Pavement
Δ = 34°-26'-11"
D = 20°-00'-00"
R = 286.48'
L = 173.14'
T = 89.33'

Temporary Pavement at I-71 Sta. 496+00
Scale: 1" = 20'

* Traffic pattern A is in effect when Southbound lanes are interrupted. Traffic pattern B is in effect when Northbound lanes are interrupted.



Curve Data - ℄ Temp. Pavement
Δ = 64°-21'-51"
D = 20°-00'-00"
R = 286.48'
L = 321.92'
T = 180.58'

Temporary Pavement at I-71 Sta. 496+00
Scale: 1" = 20'

I-71 Temporary Pavement at Sta 486+00 & Sta 496+00

FED. RD. DIST. NO.	STATE	PROJECT		
2	OHIO			

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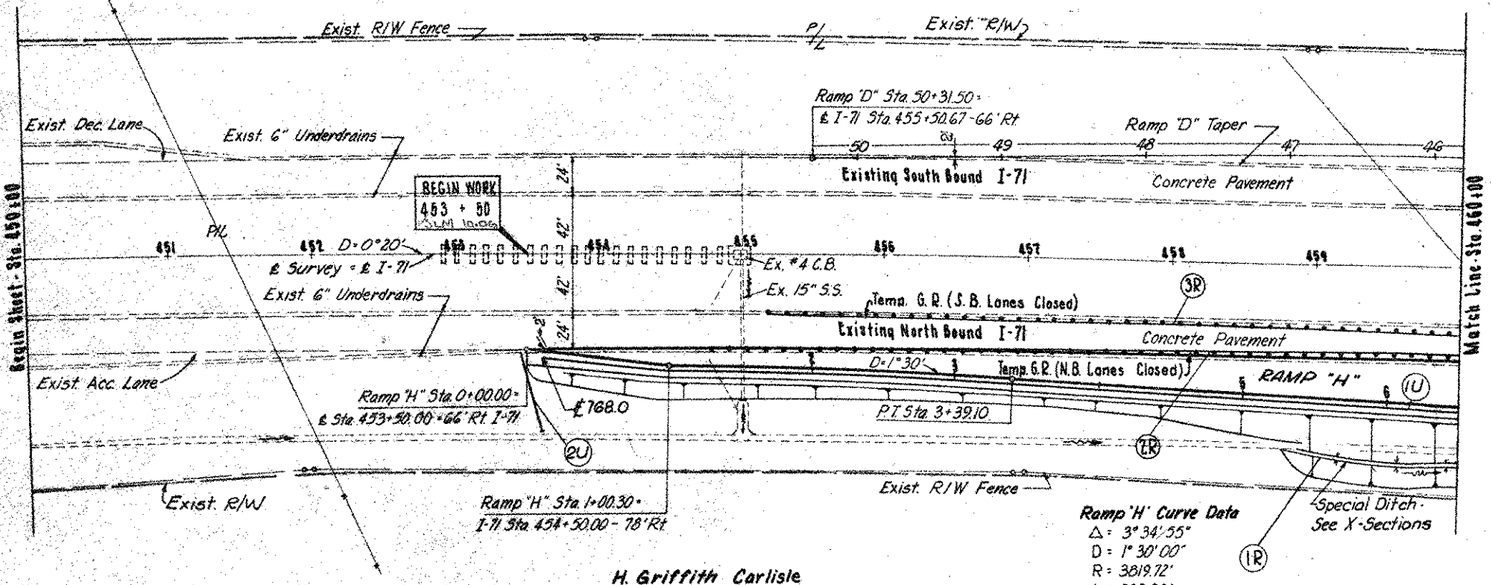
FRANKLIN COUNTY
FRA-200-8.04

Note : ℄ of I-71 monumented at Sta. 450 + 00 ℄ 460 + 00

Robertshaw-Fulton Control Co.

℄ Survey Curve Data
Δ = 10° 32' 30"
D = 0° 20' 00"
T = 1585.69'
L = 3162.50'
R = 17,188.73'
E = 72.90'



Ramp "H" Curve Data
Δ = 3° 34' 55"
D = 1° 30' 00"
R = 3819.72'
L = 238.80'

ROADWAY

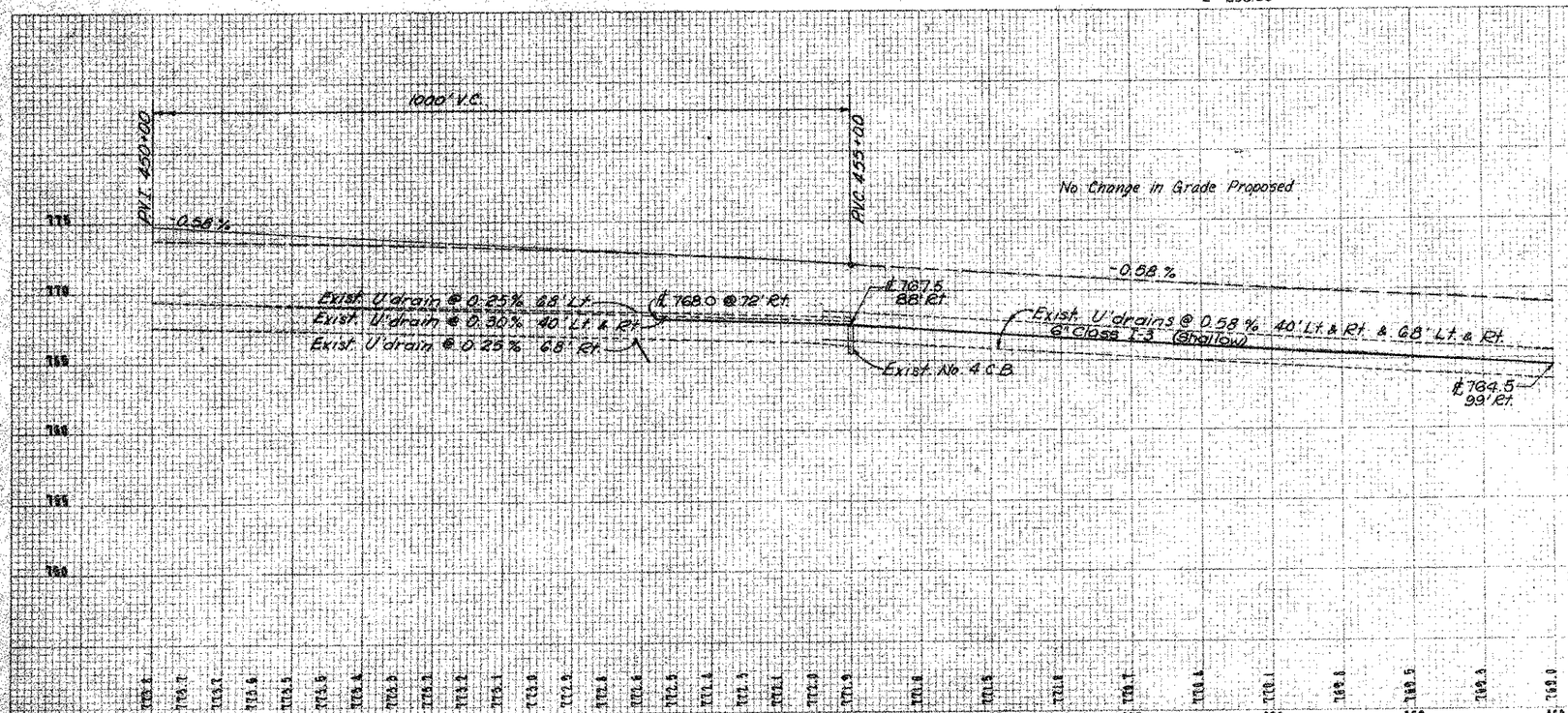
Ref. No.	Station From	Station To	Side	L-10 Sod as per plan W=12' S.Y.	I-15 Temp. Guard Rail Lin. F.
1R	458+80	460+00	Rt.	190	
2R	454+80	460+00	Rt.		520
3R	455+18	460+00	Rt.		482
TOTALS				190	1000

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 6" Cl. I-3 (Shallow) L.F.	I-1 8" Cl. F-1 Pipe L.F.	I-5 6" 90° Bend Each
1-U	M 0+10	M 0+50	Rt.	040		
2-U	453+45	453+98	Rt.	40	10	1
TOTALS				080	10	1

Note : For Ramp "H" Details ℄ Profile See Sheet No's 102 & 192

H. Griffith Carlisle



Ramp "D" Taper

Ramp Sta.	Offset Lt ℄ to Edge Taper	Elev. Right Edge Taper
46+00	74.99	768.82
46+50	73.94	769.22
47+00	72.90	769.53
47+50	71.86	769.83
48+00	70.82	770.14
48+50	69.78	770.45
49+00	68.73	770.76
49+50	67.69	771.06
50+00	66.65	771.37
50+31.50	66.00	771.57

Excavation	740 cy
Embankment	733 cy
Embankment + 15%	843 cy

T-71 Sta. 450+00 to Sta. 460+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
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Note :
℄ of I.R.71 monumented at Sta. 460+00 & 470+00

Robertshaw-Fulton Controls Co.

℄ I-71 Curve Data
Δ = 10°32'30"
D = 0°20'00"
T = 1585.69'
L = 3162.50'
R = 17188.73'
E = 72.90'

Wooded

Ohio Holding Co.

Ramp "D" Curve Data
Δ = 3°00'00"
D = 1°30'00"
R = 3819.72'
L = 200.00'

Shed

Connect to Exist I-71 R/W Fence Corner Post Assembly 46' Rt. Ramp "D" Sta. 36+32

For Ramp "D" Details See Sheet Nº 95 & 96.

Exist. R/W Fence

See Sheet Nº 105 for Details of Temporary Pavement

P.C. 39+31.39

P.T. 38+30.85
End Grading

R.C.C. Sta. 36+30.85

150'
469+87.3

RAMP "D" TAPER

RAMP "D"

Exist. South Bound I-71 Concrete Pavement

Temp. G.R. (S.B. Lanes Closed)

Exist. 6" Underdrains

Temp. G.R. (N.B. Lanes Closed)

Exist. North Bound I-71 Concrete Pavement

End Paving 492 + 50.00

End Paving 498 + 40.87

Derwood W. Lewis & Effie Pauline Lewis

Match Line - Sta. 490+00

Match Line - Sta. 470+00

℄ Survey - ℄ I-71 D=0°20'

D=1°30'

Special Ditch-see X-Sections

Ramp "H"

Connect to Exist. I-71 R/W Intermediate Anchor Post Assembly 61' Rt. Ramp "H" Sta. 6+88

160'
460+34.83
H. Griffith Carlisle

P.C. 7+13.83

P.R.C. 7+97.07

Exist. R/W Fence

Ramp "H" Curve Data
Δ = 1°14'55"
D = 1°30'00"
R = 3819.72'
L = 83.24'

Special Ditch see X-Sections

Eugene & Myrtle Hay

Exist. R/W

Ramp "H" Curve Data
Δ = 12°00'00"
D = 1°30'00"
R = 3819.72'
L = 800.00'

Intermediate Anchor Post Assembly. 98' Rt. Ramp "H" Sta. 11+30

22345'
I.R. 71 Sta. 466+30.11
LA

Kenneth & Mary Hay

230.69'
I.R. 71 Sta. 466+92.45

P.R.C. 15+97.07

294.84'
I-71 Sta. 469+50.5
85'
Ramp "H" Sta. 16+10

For Ramp "H" Details see Sheet Nos. 102, 103 & 104

Intermediate Anchor Post Assembly 83' Rt. Ramp "H" Sta. 16+10

Note : For Drainage details not shown, see Sheet Nº 141

DRAINAGE

Ref. No.	Station From	Station To	Side	I-1 15" M-66(a) or 6.8(b) Cl. A-1	I-2 Masonry Class "C"	S-22 Removal of Portions of Ex. Struct.	I-8 Std. Nº 2.10 Median Inlet
				L.F.	C.Y.	Lump	Each
1-D	498+00		Rt.	24	0.26	Lump	
2-D	495+00		Rt.				1
TOTALS				24	0.26	Lump	1

ROADWAY

Ref. No.	Station From	Station To	Side	I-15 Temp. Guard Rail	Special Rem. & Stor. of Ex. R/W Fence
				L.F.	L.F.
1R	490+00	497+18	Rt.	798	
2R	490+00	495+30	Rt.	930	
3R	490+38	470+00	Rt.		995
4R	494+38	495+30	Lt.	76	
5R	490+70	497+44	Lt.	76	
6R	498+37	470+00	Lt.		93
TOTAL				1450	1026

UNDERDRAINS

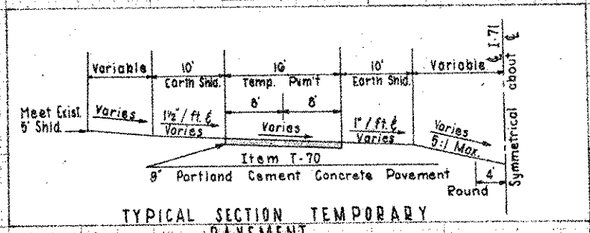
Ref. No	Station From	Station To	Side	I-1 6" Cl. I-3 Shallow	I-1 6" Cl. I-3 Deep	I-1 6" Cl. A-1	I-1 6" Cl. F-1	I-5 6" 60° Wye
				L.F.	L.F.	L.F.	L.F.	Each
1U	"H" 0+50	"H" 1+30	Rt.	480				1
2U	494+95	494+80	Rt.			72	10	
3U	"H" 11+35	"H" 16+45	Rt.	110	400			
TOTALS				590	400	72	10	1

PAVEMENT

Ref. No.	Station From	Station To	Side	I-70 9" Port. Cement Conc. Pvmt.	I-5 Removal of Exist. Pvmt.
				S.Y.	S.Y.
1P	494+38.38	497+01.70	Lt.	788	788

Ramp "D" Taper

Ramp Sta.	Offset Lt. ℄ to Edge Taper	Elev Right Edge Taper
44+00	79.15	707.08
44+50	78.11	708.00
45+00	77.07	708.30
45+50	76.03	708.01



TYPICAL SECTION TEMPORARY PAVEMENT
Scale : 1" = 10'-0"

Excavation 3721 cy
Embankment 4793 cy
Embankment + 15% 5512 cy

No Change in Grade Proposed

Exist. U-drains @ 0.58% 46' Lt. ℄ & 68' Lt. ℄ Rt.
6" Class A-1 Right Ramp "H" (Shallow)

℄ 764.6

℄ 761.5

Plug

℄ 761.2

℄ 761.0

-0.58%

Exist. No. 4 C.B.

℄ 758.5

℄ 758.8

6" Class I-3 (Deep) See Ramp "H" Profile Sheet No. 192 For Extension

℄ 754.5

495+00 78' Rt.
Sta. No. 2-10 Inlet
℄ 759.0

Match Line - Sta. 470+00

Match Line - Sta. 490+00

770
765
760
755
750

660 661 662 663 664 665 666 667 668 669 670

SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

Ohio Holding Co.
End Post Assembly
149' Rt. Ramp "D" Sta. 34+01

See Sheet No. 251 for Culvert Details.
See Sheet No. 36 for Ramp "D" Details.

See Sheet Nos. 90, 91, 93 & 104 Ramp "A" Details.

Note: See Std. Dwg. I-15, No 5 for details of Guard Rail at bridge & special median swales

Note: ℄ of I-71 Monumented at Sta. 470+00, 478+40.67 & 480+00

6" Oil Line Ashland Pipe Line Co.

H. Griffith Carlisle

Exist. R/W

Exist. R/W Fence

Existing Ditch

Bridge No FRA-200 Ramp "A" Under I-71 S.B. See Sheets 277-286

Sodded Gutter (Typ) See Sheet No 217 for details

Sod Gutter

Existing Ditch

Ramp "D" 34

Ramp "A" 36

Ramp "D" 35

Ramp "H" 18

Ramp "H" 19

℄ Ramp "D" Sta. 473+37.06.10 = ℄ Ramp "A" Sta. 473+52.06-66' Lt.

Accel. Lane - Ramp "B" Sta. 478+14.25 -42' Lt. Begin App. Slab

Existing South Bound I-71

Sta. 476+83.06 -42' Lt. End App. Slab

℄ 755.0

Concrete Pavement

Exist. 6" Underdrains ℄ Survey ℄ I-71

D-0°20'

Remove Exist. 4 C.B. & Replace with 6'ø M.H. (3U)

Exist 15" S.S.

Plug Exist. Underdrain Sta. 479 @ 37°53' Rt.

P.T. Sta. 478+40.67

Sta. 478+13.50-42' Rt. Begin App. Slab

Existing North Bound I-71

℄ 755.0 Sta. 476+81.67-42' Rt. End App. Slab

℄ 755.0

Exist. 6" Underdrains

Concrete Pavement

Existing Guardrail

"J" C-D Road

Match Line - Sta. 470+00

Match Line - Sta. 480+00

Bridge No FRA-200 Ramp "A" Under I-71 N.B. See Sheets 277-286

Existing Paved Gutter

Exist. R/W Fence

Kenneth & Mary Hay

See Sheet No. 228 For Culvert Details

℄ William H. & Helen Williams

Exist. R/W

See Sheet Nos. 102, 103 & 104 for Ramp "H" Details

See Sheet No. 223 for Culvert Details.

Corner ⊙ ± Leora P. Yates

See Sheet No. 224 & 225 Culvert Details.

DRAINAGE

Reference	Station From	Station To	Offset Side	Item No.	I-1 15" Class A-1 (M-8.6(b) or 6.8(b))	I-1 15" Class F-1 Pipe	I-1 15" Class F-1 Pipe	I-1 18" Class A-1 (M-8.6(b) or 6.8(b))	I-1 18" Class F-1 Pipe	I-2 Masonry Class 'E'	I-5 15" 30° C.I.P. Pipe Bends	I-8 Std. #3 C.B.	I-8 Std. #8 C.B.	I-8 Std. #2-101 Inlet	I-8 Std. #4 M.H. #2	I-8 Std. #4 as C.B.	I-10 Dumped Rock Channel Protection	L-120 Jute Matting
				Unit	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	C.Y.	S.Y.
29A	36+15 'A'	36+30 'A'	16'	Lt				64				1						67
29	36+30 'A'	37+45 'A'	46'	Rt				130				1						67
30B	476+28	477+20	0	℄			90				1		1					
30A	477+20	477+70	0	℄	50						2		1					
30D	477+70	478+64	0	℄			90						1					
30	37+45 'A'	38+67 'A'	8'	Lt				132							1			
31	38+67 'A'	39+00	38'	Rt					48	30					1		60	
33	473+35	475+00	0	℄		165										1		30
34	475+00			℄											1			
35	475+00		775	Rt										1				
36	475+00		150	Rt		32				26							12	
	Totals				50	197	180	326	48	056	3	2	3	1	3	1	72	164

UNDERDRAINS

Reference	Station From	Station To	Side	Item No. I-1 6" Class I-8 (Shallow)	6" Class F-1	6" Class A-1	8" Class F-1	I-5 6" 60° Wye
				L.F.	L.F.	L.F.	L.F.	Each
1U	475+90	476+80	Lt	120			10	1
2U	476+00	476+80	Lt	105	10			1
3U	475+90	476+70	Rt	110	10			1
4U	476+40	477+00	Rt	35		100	10	3
5U	478+25	480+00	Lt	175				
Totals				545	20	100	20	6

STRUCTURES

Item No.	I-1	I-2	I-10	L-10	E-12	I-1
Ref. No.	108" Class A-1 M-8.6(b) 7-5.40	Masonry Class 'E'	Dump Rock Channel Protect.	Sodding as per plan	Pipe Remove over 15"	108" C.I. A-1 M-8.6(b) 11-8 Ga.
	L.F.	C.Y.	C.Y.	S.Y.	L.F.	L.F.
1-5	78	18	78	65	12	40

ROADWAY

Ref. No.	Station From	Station To	Side	I-15 G.Rail St. Beam Deep	I-15 G.Rail St. Beam Barrier	I-15 G.Rail Removal & Stor.	L-10 Special Sodding	I-7 15" Reinf. Conc. Appr. Slab	E-8 Removal Disposal Ex. Pipe	Special Remov. & Stor. Exist. R/W Fence
				L.F.	L.F.	L.F.	S.Y.	S.Y.	S.Y.	L.F.
1R	473+47	476+72	Lt	325						
2R	473+52	478+00	Lt			448				
3R	473+65	476+61	℄	150	150					
4R	470+00	479+19	Rt			917				
5R	478+36.35	480+00	Lt	163.78						
6R	478+30	480+00	℄	150	25					
7R	476+58.06	476+83.06	Lt					86.1		
8R	476+56.67	476+81.67	Rt					111.1		
9R	478+14.25	478+39.25	Lt					94.4		
10R	478+13.50	478+38.50	Rt					111.1		
11R	476+50	478+50	Lt						533	
12R	476+45	478+45	Rt						533	
13R	470+00	471+85	Lt							192
14R	470+00	475+26	Rt							526
15R	472+18	480+00	Lt							793
16R	475+60	480+00	Rt							440
17R	478+39		Lt				44			
18R	478+39		Rt				103			
19R	476+69		Rt				100			
20R	476+69		Lt				66			
Totals				788.78	175	1365	313	4027	1066	1951

No Change In Grade Proposed

Bridge Limits

0.58%

℄ Exist. U Drain @ 0.58% 40' Lt. & Rt.

15" ø S=0.005 Ft/Ft

Remove Exist. No 4 C.B. & Replace with 3'ø M.H.

Sta. 473+50 & 35' Rt. No 4 C.B. Rim E. 1339 Invert E. 1334.82

SHEET NO.	STATE	PROJECT		
2	OHIO			

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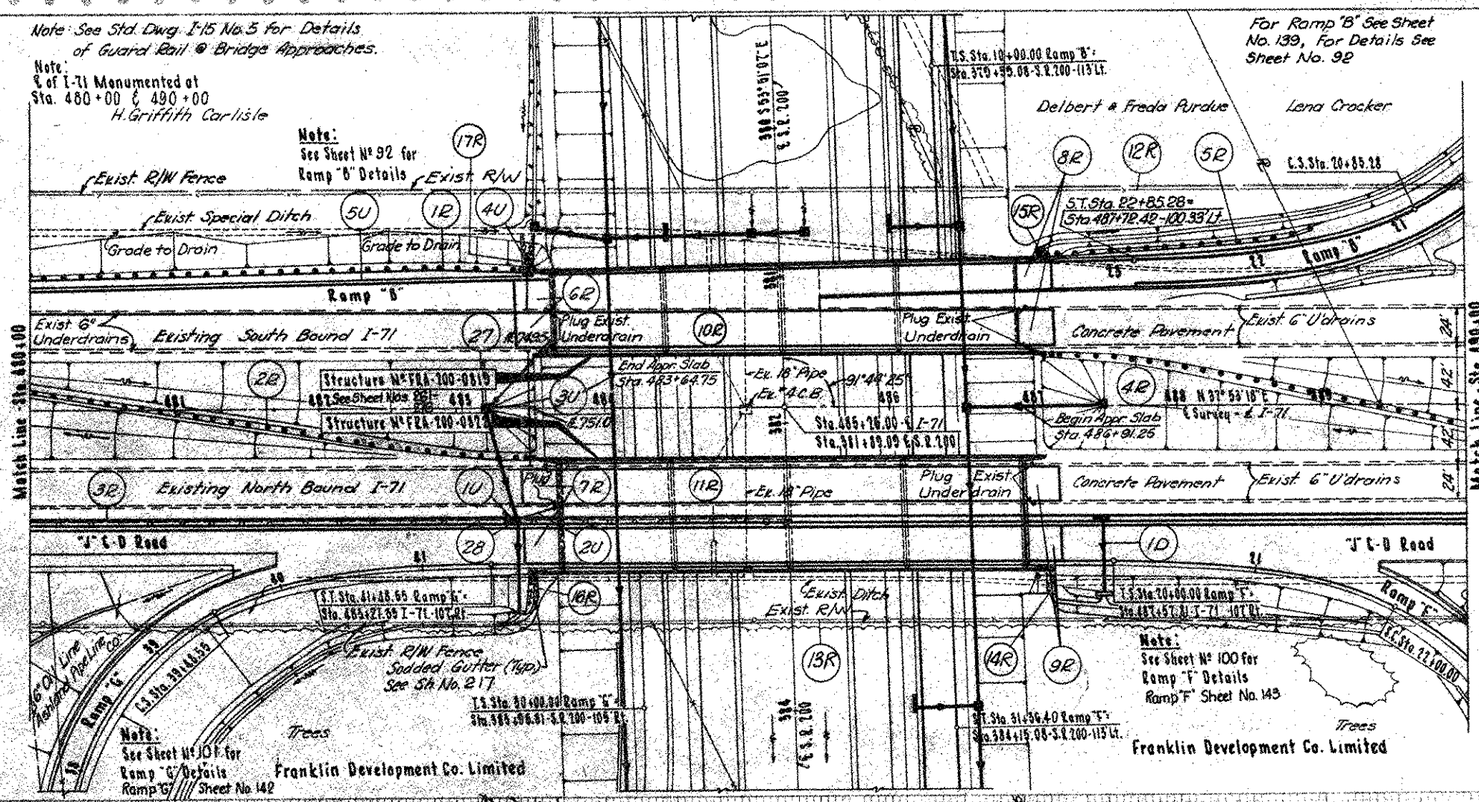
FRANKLIN COUNTY
FRA-200-8.84

Note: See Std. Dwg. I-15 No.3 for Details of Guard Rail @ Bridge Approaches.

Note: % of I-71 Monumented at Sta. 480+00 ℄ 490+00
H. Griffith Carlisle

For Ramp "B" See Sheet No. 139, For Details See Sheet No. 92



ROADWAY

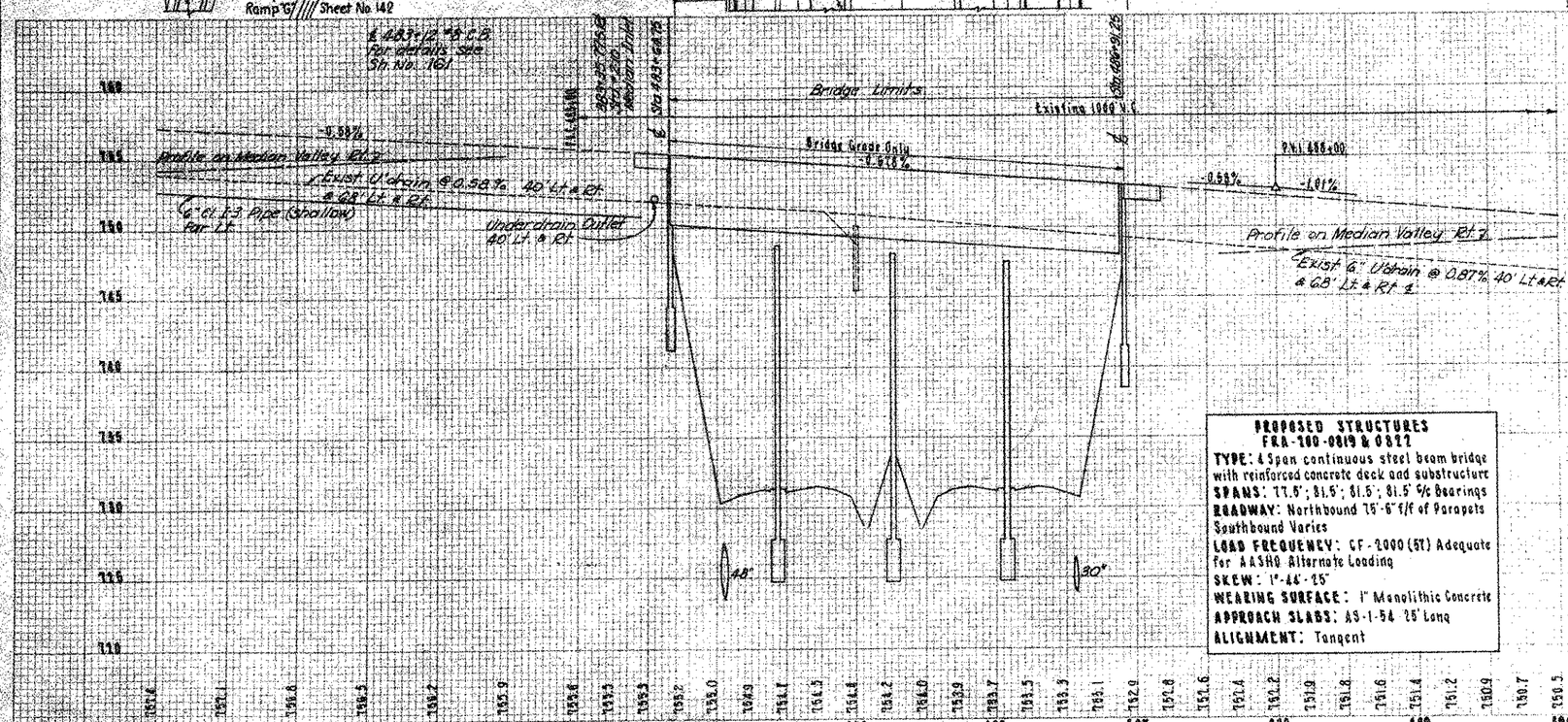
Ref. No.	Station From	Station To	Side	I-15 G. Rail Steel Beam Deep L.F.	I-15 G. Rail Steel Beam Barrier L.F.	I-15 G. Rail Removal & Storage L.F.	I-7 13" Rein. Conc. Slab S.Y.	E-8 Removal & Disposal of Exist. Pav't. S.Y.	Special Removal & Storage of Exist. R/W Fence L.F.	L-10 Special Sod-ding S.Y.
1R	480+00	483+48.48	Lt	348.75						
2R	480+00	483+50	℄	150	200					
3R	480+00	485+30	Rt.			530				
4R	487+00	490+00	℄	150	150					
5R	487+00	489+00	Lt	200						
6R	483+39.75	483+64.75	Lt				130.6			
7R	483+39.75	483+64.25	Rt.				133.4			
8R	486+91.25	487+16.25	Lt				116.7			
9R	486+91.25	487+16.25	Rt				138.4			
10R	483+92	487+22	Lt					1040		
11R	483+35	487+25	Rt					1040		
12R	480+00	490+00	Lt						1000	
13R	480+00	490+00	Rt.						1000	
14R	487+07		Rt							18
15R	487+07		Lt							7
16R	483+48		Rt.							20
17R	483+48		Lt.							20
Totals				848.75	350	530	514.1	2080	2000	65

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 6" Cl. I-3 Shallow L.F.	I-1 6" Cl. F-1 Pipe L.F.	I-1 6" Cl. A-1 Pipe L.F.	I-5 8" Cl. F-1 Pipe L.F.	I-5 6" 60° Bend Each	I-5 6"x6" Tee Each
1U	483+25	483+35	Rt.		10			1	
2U	483+35	483+60	Rt.	25					
3U	483+15	483+47	Rt.		105				3
4U	483+45	-	Lt.			28	10		1
5U	480+00	483+45	Lt.	345					1
Totals				370	115	28	10	1	5

DRAINAGE

Ref. No.	Station From	Station To	Side	I-1 15" Cl. A-1 or C.S.P.	I-2 Masonry Cl. C	I-8 Std. No. 8 C.B.	I-8 Std. No. 2-6 Inlet	I-8 Std. No. 2-10 Inlet
				L.F.	C.Y.	Each	Each	Each
27	483+15	483+35	Rt.	76		1		
28	483+35	-	Rt.	64	0.26			1
1D	487+50	-	Rt.	56	0.26		1	
Totals				196	0.52	1	1	1



PROPOSED STRUCTURES
FRA-200-0819 & 0822

TYPE: 4 Span continuous steel beam bridge with reinforced concrete deck and substructure
SPANS: 77.5'; 81.5'; 81.5'; 81.5' ℄ bearings
ROADWAY: Northbound 75'-6" f/f of Parapets Southbound Varies
LOAD FREQUENCY: CF-2000 (5T) Adequate for AASHO Alternate Loading
SKEW: 1°-44'-25"
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-54 25' Long
ALIGNMENT: Tangent

Excavation	555 C.Y.
Embankment +15%	11,303 C.Y.
Embankment -15%	12,992 C.Y.

I-71 Sta. 480+00 to Sta. 490+00

AREA 10 DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-700-8.04

See Sheet No. 92 for Ramp "B" Details.

Lena Crocker (Land Contract) Dimitar Traikovich (Fee)

Burley Spaulding (Land Contract) Dimitar Traikovich (Fee)

Paul Crocker (Land Contract) Dimitar Traikovich (Fee)

Note: ℄ of I-71 Monumented at Sta. 490+00 & 500+00

See Sheet No. 90,91 for Ramp "A" Details

Ramp "A" Curve Data
Δ = 18°58' 51"
D = 9°00' 00"
R = 1909.86'
L = 632.70'
T = 319.27'

Ramp "A" Curve Data
Δ = 6°00' 00"
D = 2°00' 00"
R = 2864.79'
L = 300.00'
T = 150.14'

Anna Dyer

50' Ramp "A" Sta. 1+71 Sta. 11+00
230.92' 498+47.09

Intermediate Anchor Post Assembly 48' Rt. Ramp "A" Sta. 11+00

Exist. R/W Fence — Exist. R/W

Exist. Special Ditch

Sta. 494+38.30 Temp. G.R. (N.B. Lanes Closed)

Sta. 497+61.70 Temp. G.R. (S.B. Lanes Closed)

Existing South Bound I-71

Concrete Pavement

Exist. 6" Underdrains

Match Line Sta. 490+00

Match Line Sta. 500+00

N 37°53' 18" E

Existing North Bound I-71

Temp. G.R. (S.B. Lanes Closed)

Concrete Pavement

Temp. G.R. (N.B. Lanes Closed)

See Sheet N° 105 for Temporary Pavement Details

"J" C-D Road

Exist. Special Ditch

CS Sta. 36+87.18

Exist R/W

Exist. R/W Fence

See Sheet No. 98,99 For Ramp "E" Details.

Franklin Development Co. Limited

See Sheet No. 100 for Ramp "F" Details.

Ramp "E" Curve Data
Δ = 34° 25' 19"
D = 5°00' 00"
R = 1145.92'
L = 688.44'
T = 354.99'

See Sheet No. 222 for Culvert Details.

Intermediate Anchor Post Assembly - 101.22' Rt. Ramp "E" Sta. 88+15.70

For Underdrain Quantities & Drainage Quantities not shown see sheet N° 138

UNDERDRAINS

Ref. No.	Station From	Station To	Side	6" Cl. I-3 Shallow L.F.	6" Cl. F-1 L.F.
1U	494+75	494+98	Rt	13	10

DRAINAGE

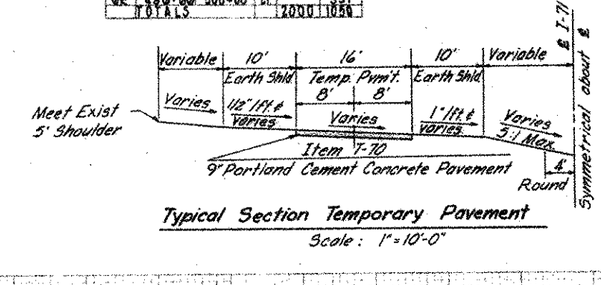
Ref. No.	Station From	Station To	Side	I-1 15" M6.66 or 6B(b) Cl. A-1 L.F.	I-2 Mas. onry Cl. "C" C.Y.	I-8 Std. No. 2-10 Median Inlet Each	E-12 Removal of Pipe 15" & under L.F.
1D	495+00	-	Rt			1	
2D	495+00	-	Rt	28	0.26		4
TOTALS				28	0.26	1	4

ROADWAY

Ref. N°	Station From	Station To	Side	SPECIAL I-15 Ram. & Stor. of Ex. R/W Fence L.F.	Temp. orary Guard Rail L.F.
1R	490+00	500+00	Lt	1000	
2R	490+00	500+00	Rt	1000	
3R	494+61	495+34	Rt		75
4R	494+88	500+00	Lt		500
5R	490+00	497+30	Rt		75
6R	490+00	500+00	Lt		337
TOTALS				2000	1050

PAVEMENT

Ref N°	Station From	Station To	Side	T-70 9" Port. Cement Conc. Pvmt. S.Y.	E-8 Removal of Exist Pvmt. S.Y.
1P	494+38.30	497+61.70	Lt Rt	788	788



Typical Section Temporary Pavement
Scale: 1"=10'-0"

No Change in Grade Proposed

-1.00921% — Ex. 6" U/drain @ 0.87% 40' Lt & Rt ℄ 468' Lt & Rt ℄ — -1.00921% — Ex. 6" U/drain @ 1.00% 40' Lt & Rt ℄ 468' Lt & Rt ℄

1000' V.C.

P.V.I. Sta. 493+00

Excavation 2672 C.Y.
Embankment 4958 C.Y.
Embankment + 15% 5702 C.Y.

I-71 Sta 490+00 to Sta 500+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-6.84

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Note: For Culvert Details See Sheet No. 222

Ramp "N" Curve Data
Δ = 8° 00' 00"
D = 2° 00' 00"
R = 2864.79'
L = 400.00'
T = 199.14'

Intermediate Anchor Post Assembly
73.39' Rt. Ramp "A" Sta. 7+50

See Sheet No. 90, 91 for Ramp "A" Details

Ramp "N" Curve Data
Δ = 7° 24' 06"
D = 1° 00' 00"
R = 5729.58'
L = 740.10'
T = 370.99'

Intermediate Anchor Post Assembly
68' Rt. Ramp "A" Sta. 4+00

Note:
℄ I-71 Monumented at Sta. 500+00 & 510+00

70' Ramp "A" Sta. 4+00
150' I-71 Sta. 505+30.22

Anna Dyer

P.C.C. Sta. 7+40.10

Exist. R/W Fence

Connect to Exist. I-71 R/W Fence

P.C. Sta. 0+00.00 Ramp "A"
Sta. 504+25.00 U.S. 62-66 Lt.

Existing Ditch

Ramp "A"

Exist. Underdrain

Plug

Existing South Bound I-71

Temp. B.R. (S.B. Lanes closed)

Concrete Pavement

Temp. B.R. (N.B. Lanes closed)

Exist. Underdrain

Existing Sod

Exist. Nº 4 C.B.

℄ Survey I-71

Exist. 15" S. Sewer

N 31° 53' 16" E

Existing North Bound I-71

Plug

Concrete Pavement

Ramp "L"

Exist. R/W Fence

P.C. Sta. 43+97.33

P.T. Sta. 48+16.99

Ramp "E" Curve Data
Δ = 0° 35' 31"
D = 0° 50' 00"
R = 1909.86'
L = 118.39'
T = 59.21'

Match to Sheet Nº 110

Match to Sheet Nº 112

See Sheet Nos. 98 & 99 for Ramp "E" Details

80' Ramp "E" Sta. 48+00
715.61' I-71 Sta. 508+66.50

80' Ramp "E" Sta. 42+00
196.54' I-71 Sta. 502+68.26

Intermediate Anchor Post Assembly
78' Rt. Ramp "E" Sta. 42+00

Intermediate Anchor Post Assembly 78' Rt. Ramp "E" Sta. 48+00

Franklin Development Co. Limited

Drainage									
Ref. Nº	Station From	Station To	Side	I-1 15" M-9.6(a) or 9.6(b) Cl. A-1 L.F.	I-1 Masonry Class "C" C.Y.	I-5 Std. Nº 6 C.B. Eα.	I-5 Std. Nº 2-15 Median Inlet Eα.	I-12 Remove Pipe 15" & Under L.F.	I-10 D Rock Chan. Prot. C.Y.
1D	505+00	-	Rt.						
2D	506+80	-	Lt.	78	0.76			4	0.8
3D	506+75	-	Rt.	70	0.76	1	1	4	0.8
Total				98	0.81	1	1	4	0.8

Roadway					
Ref. Nº	Station From	Station To	Side	Special Remove & Store Ex R/W Fence L.F.	I-19 Temp. Guard Rail L.F.
1R	500+00	510+00	Rt.	1000	
2R	500+00	508+50	Lt.	930	
3R	500+00	507+15	Lt.		715
4R	500+00	506+85	Lt.		685
Total				1930	1400

For drainage and underdrain details not shown see sheet Nº 138

Underdrains								
Ref. Nº	Station From	Station To	Side	I-1 6" Class I-5 Shallow L.F.	I-1 6" Class F-1 L.F.	I-1 6" Class A-1 L.F.	I-1 8" Class F-1 L.F.	I-5 6"x30° Bend Each	I-5 6"x90° Bend Each
1U	504+76	504+98	Rt.	13	10			1	
2U	506+80	506+70	Rt.		10			1	
3U	505+00		Lt.			30	10		1
Totals				13	20	30	10	2	1

Excavation	1,866 C.Y.
Embankment	6,933 C.Y.
Embankment +15 %	6,893 C.Y.

I-71 Sta. 500+00 to Sta. 510+00

FED. HIGHWAY DIVISION	STATE	PROJECT	
2	OHIO		

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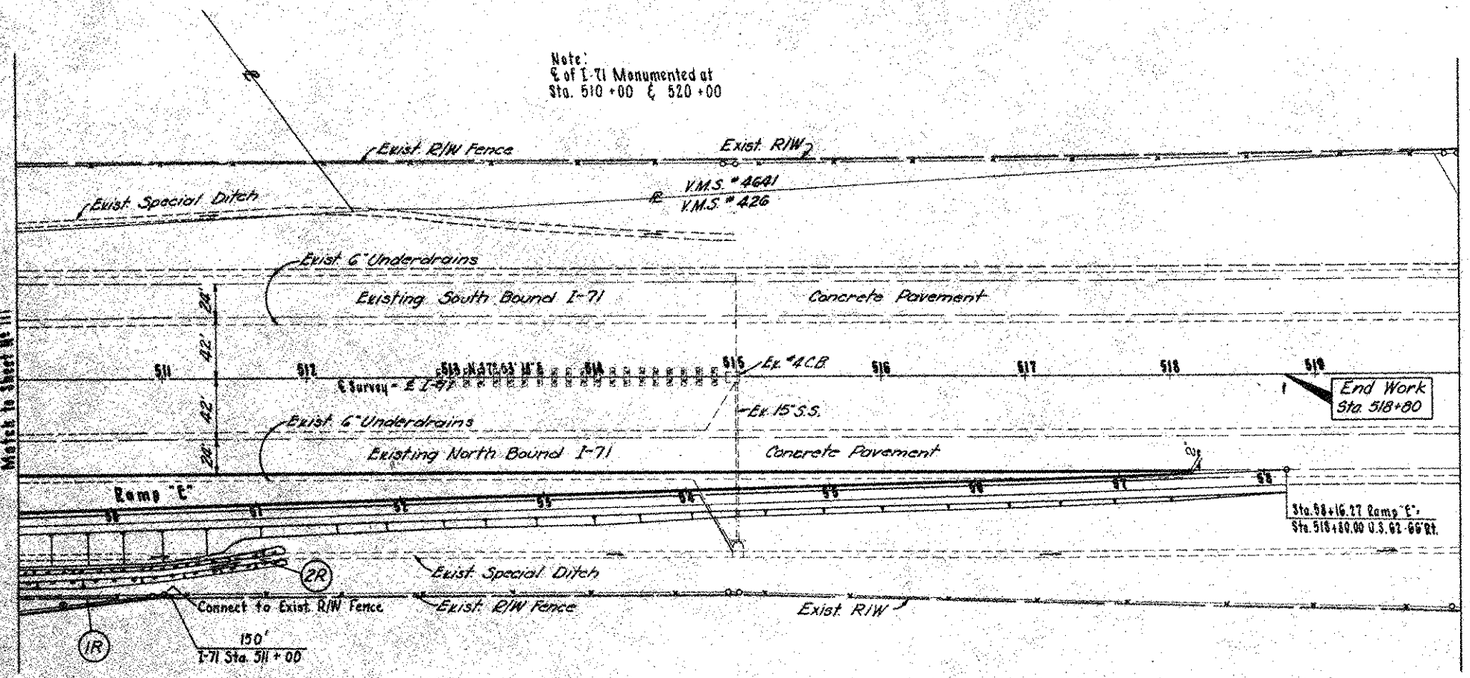
FRANKLIN COUNTY
FRA-200-0.04

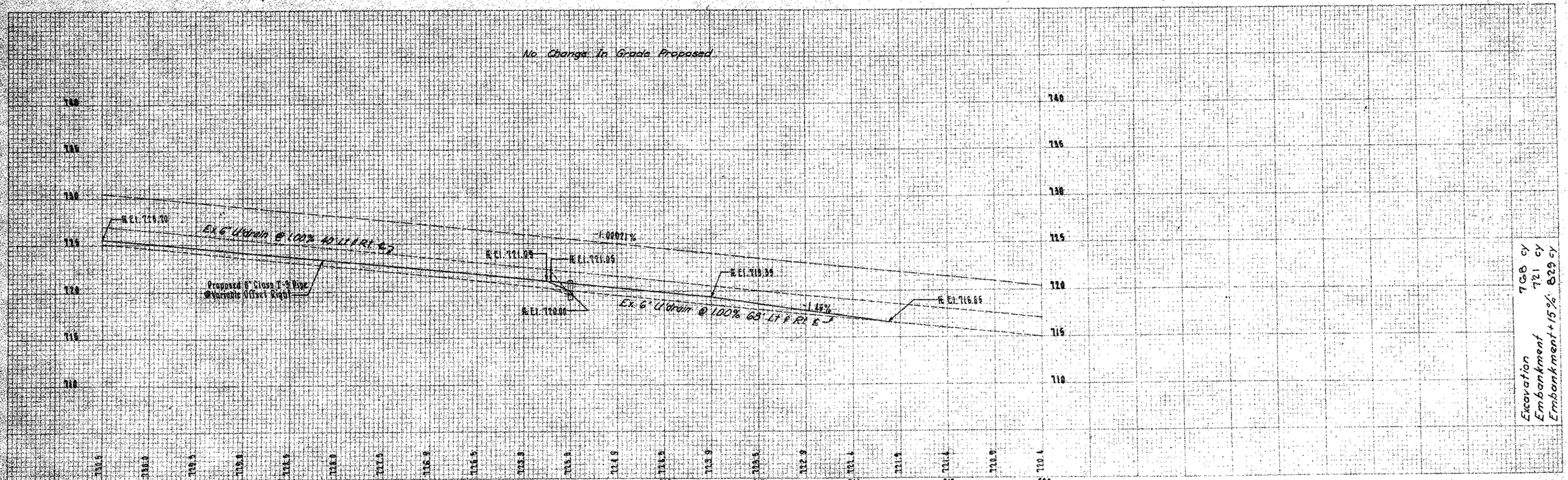
Note:
℄ of I-71 Monumented at
Sta. 510+00 ℄ 520+00



Intermediate Anchor Post Assembly
59' Rt. Ramp "E" Sta. 50+30

ROADWAY					
Ref. No.	Station From	Station To	Side	L.O. Sod as per plan W=9' S.Y.	Special Rem't Str. of Ex. R/W Fence L.F.
1R	510+00	510+85	Rt.	185	93
2R	510+00	511+85	Rt.	185	93
TOTALS				185	93

Notes:
(1) See Sheet № 99
For Ramp "E" Details
(2) For Underdrain Quantities
not shown see sheet № 138



Excavation 768 cy
Embankment 721 cy
Embankment+15%: 829 cy

I-71 Sta. 510+00 to Sta. 520+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-700-8.04

Seeding	
End Width	Sq. Yds.
12	
	72
14	
	83
18	
	89
16	
	44
0	

End Area		Volume	
Cut	Fill	Cut	Fill
15	10		
		24	25
11	17		
		23	31
14	17		
		19	16
0	0		
		0	0
0	0		
		0	0

455+00
768.2

454+50
768.0

454+00
768.5

453+50
768.4

453+00
768.2

℄ 764.5

℄ 764.6

℄ 765.1

Extra" Storm Sewer with H.W.E. Endwall

BEGIN WORK
STA 453+50

BEGIN RAMP "H"
453+50

I-71 X-Sections - Sta. 453+00 to Sta. 455+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

114
333

FRANKLIN COUNTY FRA-280-8.04

Seeding		End Area		Volume	
End Width	Sq. Yds.	Cut	Fill	Cut	Fill
		95	8		
10	230				
	190				
56				58	17
10	190				
	150				
58				51	20
10	190				
	150				
61				46	22
10	190				
	150				
64				32	19
12	190				
	150				
67				25	18
12	Sta. 455+00	Sta. 455+00	15	10	

T-71 X-Sections-Sta 455+50 to Sta 457+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

115
533

Seeding	
End Width	Sq. Yds.
57	922
59	922
57	922
35	142
16	72
10	

Sta. 457+50

Sta. 459+00
765.5

Sta. 458+50
765.4

Sta. 458+00
765.5

Sta. 457+50
765.1

4:1
2:1
℄ 761.3
℄ 761.6
℄ 761.9

	End Area		Volume	
	Cut	Fill	Cut	Fill
760	70	80		
			165	162
770 760	107	95		
			144	171
770 760	48	90		
			59	191
770 760	15	51		
			49	70
770 760	90	25		
			60	91
Sta. 457+50	95	8		

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

116
333

SEEDING AND SOD SQ. YDS.

79	418
66	356
59	328
56	314
47	389
732	

Sta 460+00

Sta 461+50
764.1

Sta 463+00
764.1

Sta 464+50
764.5

Sta 466+00
764.4

Sta 467+50
764.9

Sta 480+00

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
℄ 759.8	109	138		
℄ 760.1	105	135	199	353
℄ 760.4	95	101	185	219
℄ 760.7	97	99	178	185
℄ 761.0	81	89	165	171
	70	80	140	161

I-71 X-Sections - Sta. 460+50 to Sta. 481+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-8.04

117
333

SEEDING
END AREA SQ. YDS.

Sta. 462+50

Temp

E 759.74

Ext 15" RCP with H.W.E Endwall

Ramp "H" 11+46

120 120 140

4:1

S=0.010

E 758.50

15" Class A-1 M-6.6(a) or 6.8(b)

Remove Existing Endwall

Std. H.W.E Endwall

E 758.30

760

750

END AREA		VOLUME	
CUT	FILL	CUT	FILL
169	159		
		271	231

495+00
782.2

L Fl. Inlet 759.0
I-8 Std. No. 2-10
Median Inlet

Ramp "H" 10+99

770

760

E 758.6

190	96		
		254	172

484+00
782.4

Ramp "H" 10+46.5

770

E 758.9

750

149	90		
		241	162

498+00
782.9

Ramp "H" 9+97

770

E 759.2

750

117	85		
		220	157

463+50
782.9

Ramp "H" 9+47

770

760

E 759.5

120	85		
		205	206

463+00
783.4

Sta. 462+50 109 138

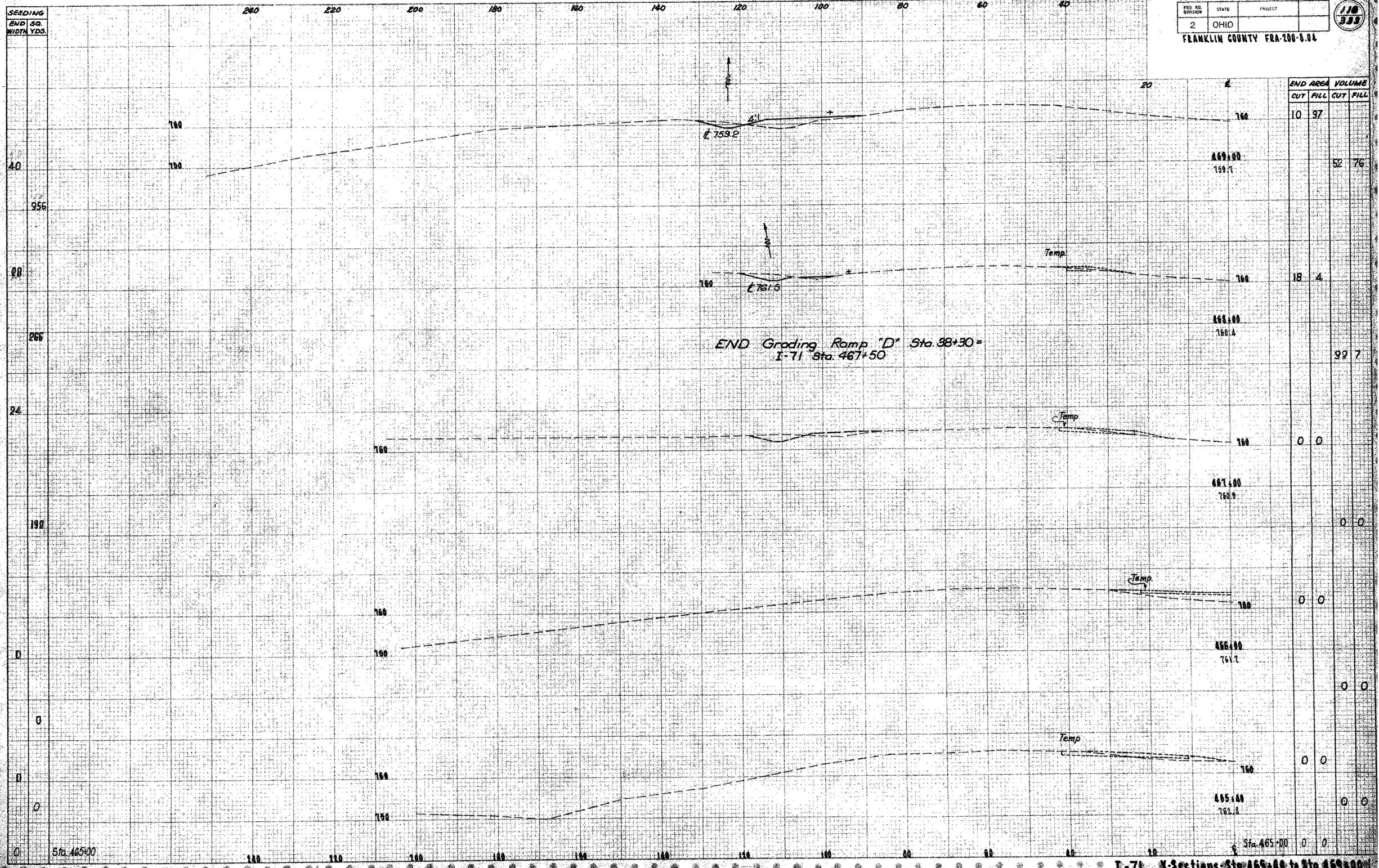
I-71 X-Sections Sta. 463+00 to Sta. 465+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-0.04

118
333

SEEDING	
END WIDTH	SQ. YDS.
40	956
20	266
24	192
0	0
0	0
0	



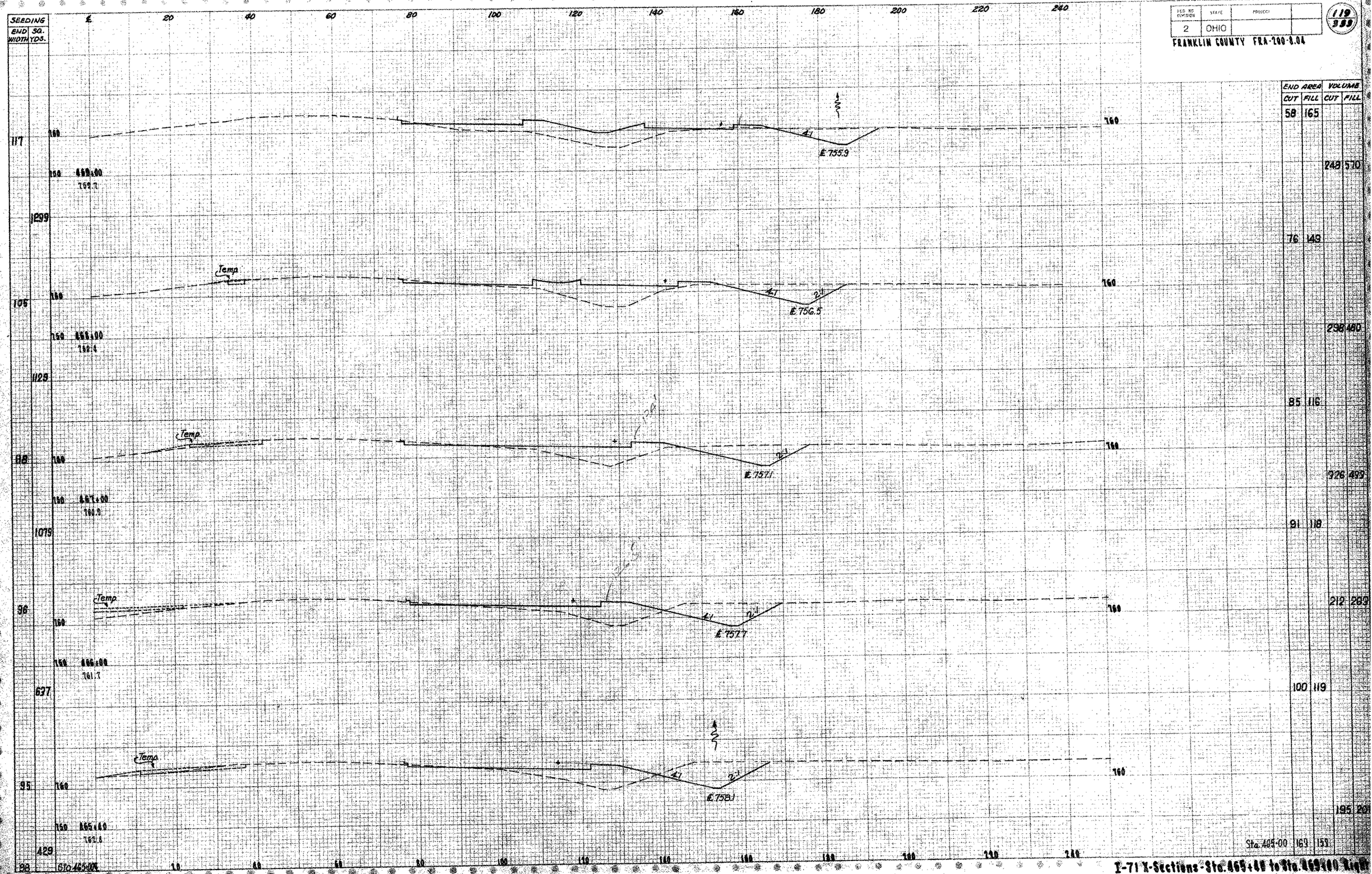
END AREA		VOLUME	
CUT	FILL	CUT	FILL
10	97		
		52	76
18	4		
		99	7
0	0		
0	0		
0	0		
0	0		
0	0		

I-71 X-Sections Sta. 469+00 to Sta. 459+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-8.04

119
388



END AREA		VOLUME	
CUT	FILL	CUT	FILL
58	165		
		243	570
76	149		
		238	480
85	116		
		926	492
91	118		
		212	282
100	119		
		195	201
Sta. 465+00	163	153	

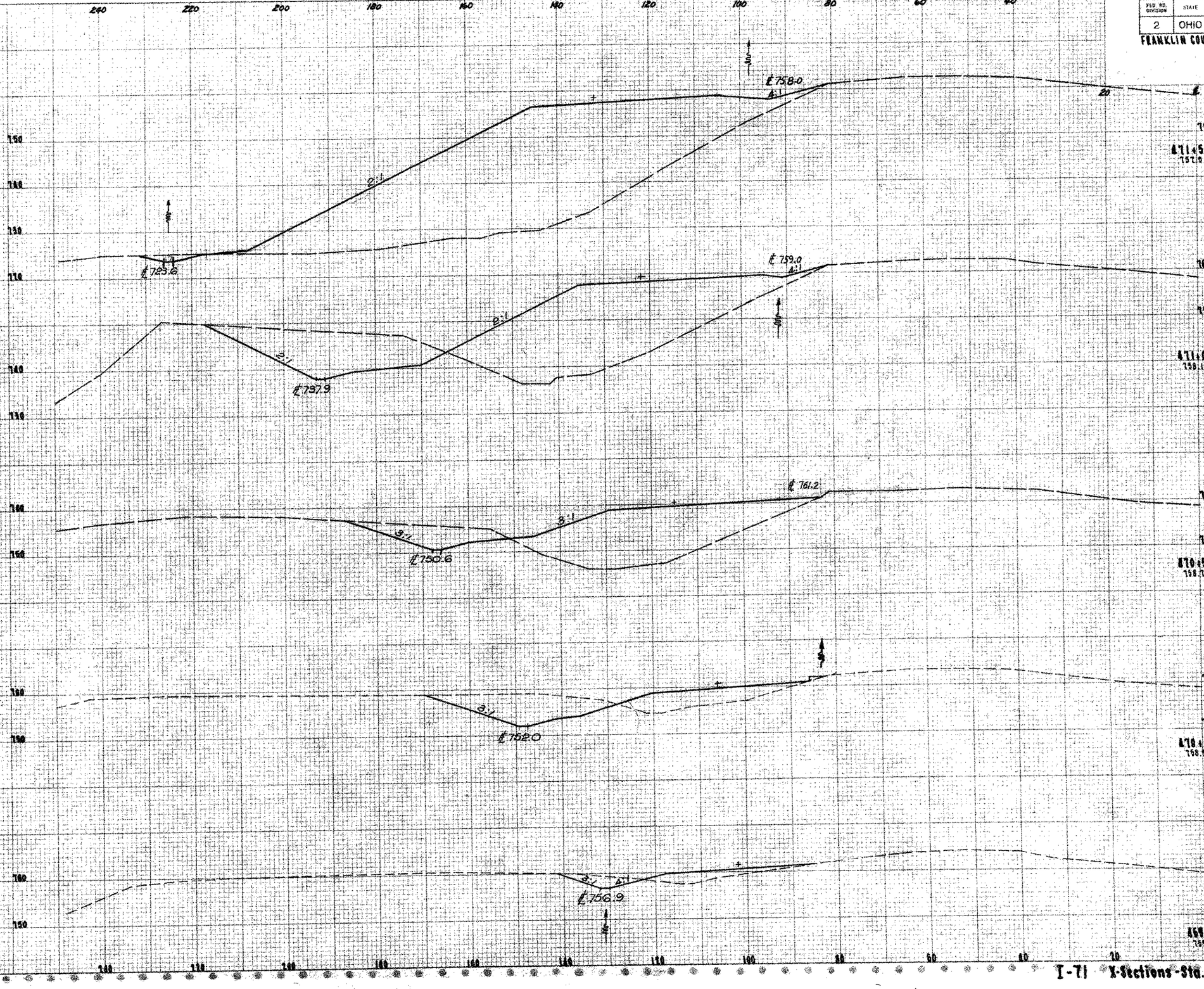
I-71 X-Sections - Sta. 465+00 to Sta. 469+00 Left

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-700-8.08

120
383

Seeding End Width	Seeding Sq. Yds.
176	892
145	655
91	438
88	258
27	186
40	



End Area Cut	End Area Fill	Volume Cut	Volume Fill
17	1789		
		919	2479
		927	888
		999	239
		104	514
		296	576
		151	108
		165	146
		27	50
		94	81

A 71+50
A 71+00
A 70+50
A 70+00
A 69+50

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-8.04

121
193

Seeding	
End Width	Sq. Yds
13	
72	
13	
78	
15	
88	
17	
99	
17	
972	

End Area		Volume	
Cut	Fill	Cut	Fill
2	93		
		5	577
2	920		
		9	555
0	279		
		0	459
0	210		
		26	991
28	148		
		80	796
58	165		

Sta. 471+50
Elev. 759.0

Sta. 471+00
Elev. 758.1

Sta. 470+50
Elev. 758.1

Sta. 470+00
Elev. 758.9

Sta. 469+50
Elev. 759.0

Sta. 469+00

Match Line, See Sheet N° 194 Ramp "H"

Match Line, See Sheet N° 194

Match Line, See Sheet N° 194

Match Line, See Sheet N° 194

Match P.I. @ 41' Lt. Ramp "H" Sta. 16+00

R. 757.5

For Ramp "H" Sections See Sheet N° 194

R. 755.5

2:1

Elev. 760
Elev. 750
Elev. 740

I-71 X-Sections - Sta. 469+50 to Sta. 471+50 Right

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

122
333

FRANKLIN COUNTY
FRA-270-8.04

SEEDING END WIDTH	SEEDING SQ YDS
0	
	216
87	
	659
198	
	873
176	

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	124		
		0	1944
0	2500		
		60	4407
65	2960		
		70	3749
17	1789		

Ref. Only

Match Pt. @ 54 Lt. Ramp "D" Sta 93+00

℄ 754.6

154

146

472+50
197.1

Match to Ramp "D"
Sta. 33+00 @ 92° Rt

215

℄ 754.8

℄ 754.50 Rt

472+00
197.5

℄ 722.0

Sta. 471+50

I-71 X-Sections Sta. 472+00 to Sta. 472+50 left

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY FRA-200-8.04

123
333

SEEDING	
SQ. YDS.	LB.
6	
31	
8	
50	
10	
69	
13	

Match Pl. @ 128' Lt. Ramp "H" Sta. 18+00

Ramp "H" Ref. Only

471+90
35ft.R.

Match Line See Sheet No 194

Ramp "H" Ref. Only

471+50
15ft.R.

Ramp "H" Ref. Only

471+00
15ft.R.

Sta. 471+50

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	211		
		0	943
0	252		
		4	489
4	270		
		6	591
2	909		

I-71 X-Sections - Sta. 471+00 to Sta. 471+90 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

124
933

FRANKLIN COUNTY FRA-200-8.04

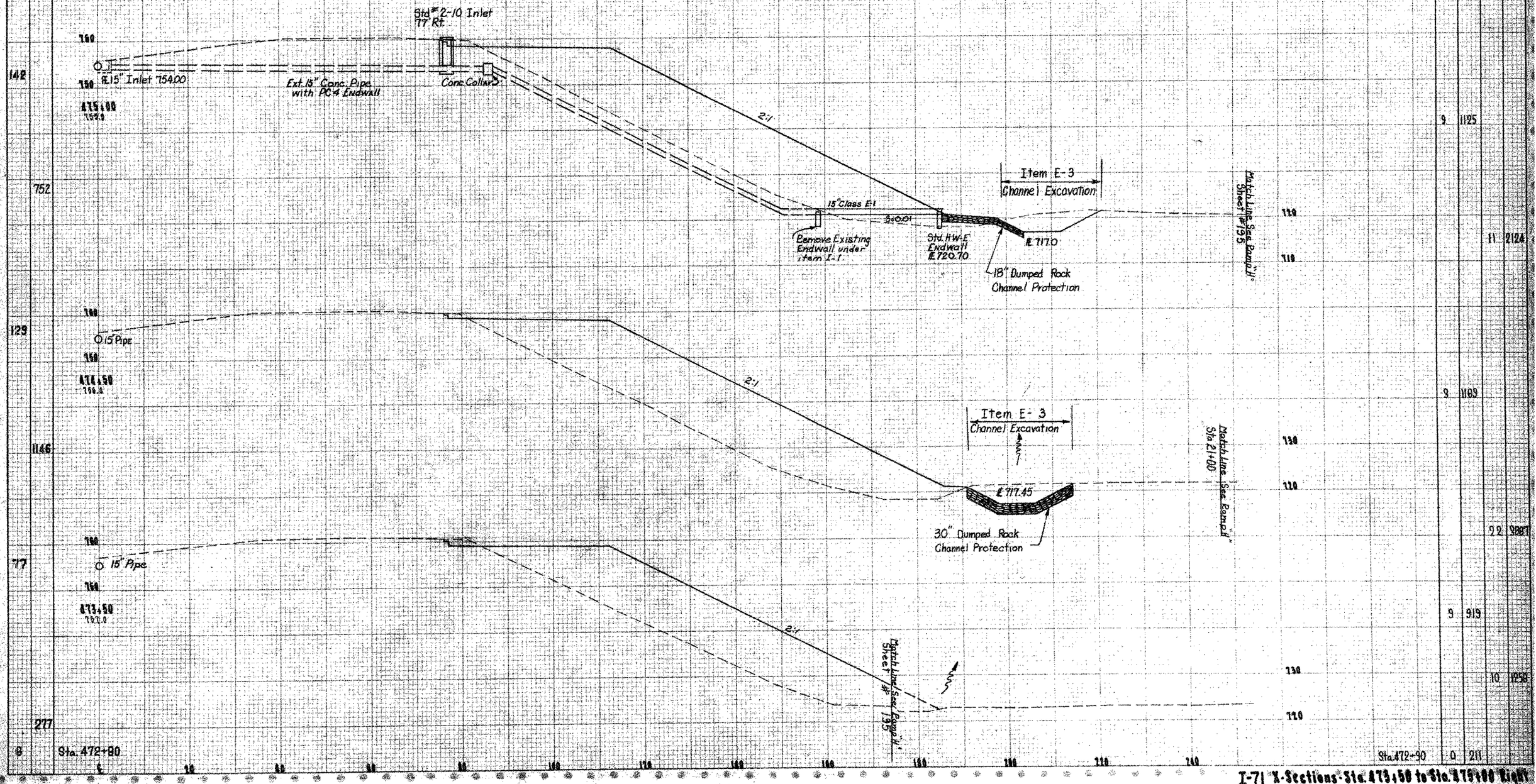
Seeding		End Area		Volume	
End Width	Sq. Yds.	Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

125
935

Seeding	
End Width	Sq. Yds.
142	
	752
129	
1146	
77	
277	



Channel Excavation		
Station	Area	Volume
473+50	0	126
474+50	68	120
475+00	62	

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-100-8.06

126
333

DELOUNG

END WIDTH	SQ. YDS.
183	897
140	
101	536
92	727
99	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
23	31		
		41	52
21	25		
		28	36
21	25		
		0	0
Sta. 476+82 → 22	312		
Sta. 476+50 → 22	312	26	37
		37	51
18	306		
		50	129
Sta. 475+00 9	294		

Bridge No. FRA 200 Ramp 'A' Under I-71

Sta. 478+14

Match to Ramp 'D' Sta 29+40 @ 135 Lt. ℄
Ramp 'A' Sta 36+00 @ 130 Rt.

Match Line See Sheet #125

Ret. Only

Sta. 475+00

I-71 - X-Sections - Sta. 476+00 to Sta. 479+00 Left

FED. TO DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

127
333

Seeding End Width	Seeding Sq. Yds.
117	
469	
52	
151	
899	
151	
1629	
142	

Channel Station	Excavation Area	Excavation Volume	End Area Cut	End Area Fill	Volume Cut	Volume Fill
476+00	56	219				
476+50	51	99	12	845		
478+50	0	189				188
Sta 478+50			0	845		
					0	1127
Sta 478+14			0	845		
					0	0
Sta 476+82			6	987	7	1170
Sta 476+50			6	987		
					15	1884
			8	1048		
					91	4024
Sta 475+00			9	1125		

478+00
759.7

Take Station
478+14 As Full
Section

478+50
759.0

I-71 STRUCTURES OVER RAMP "A"

See Ramp A Sections
Sheet No. 183 & 184

Take Station 476+82
As Full Section

476+50
759.1

476+00
759.6

Item E-3

Item E-3

℄ 716.4

Match to Ramp "H" Sta. 29+50 @ 48' Lt.
℄ Ramp "A" Sta. 39+50 @ 144' Rt.

Match Line See Sheet No. 195

Sta. 475+00

I-71 X-Sections - Sta. 476+00 to Sta. 479+00 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

126
353

FRANKLIN COUNTY FRA-700-8.04

Seeding End Width	Seeding Sq. Yds.		End Area Cut	End Area Fill	Volume Cut	Volume Fill
		760				
168		750				
		481+50 792.1	28	42		
	892				99	114
		760				
161		750				
		481+00 792.1	14	81		
	897				91	191
		760				
162		750				
		480+50 792.6	20	60		
	886				26	98
		760				
157		750				
		480+00 793.1	8	46		
		Existing 6" Oil Line - Ashland Pipe Line Co.			57	143
	1889					
189	Sta. 479+00		29	91		

I-71 X-Sections - Sta. 480+00 to Sta. 481+50 Left

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

129
333

FRANKLIN COUNTY
FRA-700-8.04

Seeding	
End Width	Sq. Yds.
115	477
57	225
24	290
59	978
117	

Ramp "G"

481+50
782.1

Match to Ramp "G"
See Sheet #191

481+00
781.1

℄ 754.2

Match to Ramp "G"
See Sheet #191

(Ref. Only)

Match P.T. @ 55 Lt.
Ramp G. Sta. 392+00

Ramp "G" (Ref. Only)

480+50
782.6

480+00
783.1

Existing 6" Oil Line-Ashland Pipe Line Co.

Match to Ramp "G"
See Sheet #191

(Ref. Only)

End Area		Volume	
Cut	Fill	Cut	Fill
0	201		
		0	227
0	1258		
		0	1504
0	966		
		0	991
0	704		
		22	284
Sta. 749+00	12	845	

Sta. 478+50

I-71 X-Sections Sta. 480+00 to Sta. 481+50 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

130
333

Seeding End Width	Seeding Sq. Yds.	
150	598	
65	180	
0	0	
0	50	
18	475	
152	898	
148	1640	
147	929	
188	1930	
160		Sta. 481+50

Match Line See Sheet #165

Match Point 98 Lt. Ramp B
Sta. 20+00

Match Line Sheet 165

Match Pt. Ramp B'
Sta. 21+90 @ 6' Rt.

Match Point 138.5' RT
B' 21+00

Ramp "B"

Ramp "B"

Ramp "B"

Ramp "B"

Bridge No. FRA. 200-8.19

For Computation Of Earthwork
Take Stations 483+65 & 486+91
As Full Sections

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
497+00 744.1	0	0		
			0	0
491+50 744.5	0	0		
			0	0
491+00 745.0	0	0		
			0	0
490+00 745.7	0	0		
			0	72
489+50 746.3	0	82		
			8	134
489+00 746.8	9	63		
			14	99
488+50 747.7	6	44	22	164
487+50	6	45	13	98
486+91	6	45	0	0
487+50 748.8	19	52	46	25
483+65	19	52		
483+00 752.9			37	97
	21	53		
482+50 751.9	28	42	91	176
Sta. 481+50				

I-71 X-Sections - Sta. 482+50 to Sta. 497+00 Left

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

131
333

SEEDING	
END WIDTH	SQ. YDS.
44	479
41	114
0	994
142	809
147	1800
141	849
182	1529
115	

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
491+00	15	85		
			31	369
			3	30
				31
490+00	2	114		
			2	31
489+50	0	145		
			5	244
489+00	5	119		
			33	174
488+50	31	69		
			67	341
487+50	5	115		
			11	251
486+91	5	115		
			0	0
483+65	2.5	254		
			60	611
483+00	2.5	254		
			32	534
482+50	10	323		

Match to Ramp "F" Sta. 42+00 @ 115 Ft.

Ramp "F"

Match to Ramp "F"

Match to Ramp "E"

℄ 742.5

℄ 744.0

℄ 744.50

℄ 746.0

℄ 746.70

℄ 747.0

℄ 747.50

℄ 748.00

℄ 748.25

℄ 751.00

Sta. 487+50 Rt.
Std. #2-6 Inlet
℄ Throat 752.10
℄ 15" Outlet 748.50

S=0.035 ft/ft

15" Cl. A-1 Pipe
M16.6(a) or 6.8(a)

Std. HW-E Endwall

Bridge No. FRA 200-0822

See Sheet No. 67
S.E. 200 X-Sections Sta. 88I+90 Lt

Sta. 483+15 ℄
Std. #BC.8

Sta. 483+35 ℄
Double #2-10 Inlet Modified

S=0.0085 ft/ft

S=0.0085 ft/ft

15" Cl. A-1 Pipe M16.6(a) or 6.8(a)

15" Cl. A-1 Pipe M16.6(a) or 6.8(a)

Sta. 481+50

℄

For Computation of Earthwork
Take Station 483+65 & 486+91
as Full Sections

491+00 490+00 489+50 489+00 488+50 487+50 486+91 483+65 483+00 482+50

0 20 40 60 80 100 120 140 160

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.84

182
333

Seeding		End Area		Volume	
End Width	Sq. Yds.	Cut	Fill	Cut	Fill
		96	107		
107					
	1100			195	851
91					
		97	197		
	966			189	908
83					
		82	90		
	230			57	27
0					
		0	0		
0				0	0
		0	0		
0				0	0
	144				
26					
	208				
49					
	342				
74					
	1067				
118					
	1489				
150					

℄ 736.0

℄ 736.3

Temp

499+50
736.9

℄ 737.0

℄ 736.7

Temp

498+50
737.4

℄ 738.5

℄ 739.0

Temp

497+50
738.9

Match Line. See Sheet # 146

Temp

497+00
739.1

Match Line. See Sheet # 146

Temp

496+00
740.1

Match Line. See Sheet # 146

Temp

495+00
741.1

Match Line. See Sheet # 147

Temp

494+50
741.6

Match Line. See Sheet # 147

Temp

494+00
742.2

Match Line. See Sheet # 147

493+00
743.1

Sta. 492+00

Sta. 492+00

I-71 X-Sections-Sta. 493+00 to Sta. 499+00 Left

FED. AID PROJECT NO.	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-8.04

SEEDING	
FED. WIDTH	SQ. YDS.
0	0
0	61
11	139
14	194
21	928
38	489
50	856
68	822
80	944
72	995
107	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
0	0	0	0
8	16	15	28
7	19	28	63
7	25	27	81
19	65	81	233
20	75	109	350
99	90	152	413
49	199	183	483
45	100	150	427
98	107		

Sta 499+50

I-71 X-Sections-Sta. 500+50 to Sta. 509+00 Left

Seeding End Width	Seeding Sq. Yds.
115	1981
190	596
68	409
82	1199
122	1672
161	567
49	242
44	

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY FRA-709-8.04

184
333

℄ 20 40 60 80 100 120 140 160 180 200 220 240

Temp. ×744.94 ℄ 739.0 ℄ 736.5

496+00 741.1

Temp. ×745.96 ℄ 739.33 Existing 15" Conc. Pipe S=0.01 ft/ft. S=0.01 ft/ft. ℄ 738.00 Std. HW-E Endwall ℄ 738.5 Ramp "C" ℄ 737.60

495+00 741.7

Sta. 49+10 · 77.5' Rt. Std. 2:10 Inlet on Exist. Storm Sewer

Remove Existing Endwall under Item I-1

Extend with 28' of 15" Cl. A-1 M8.6.0(a) or 8.6(b)

Temp. ×745.87 4:1 2:1 ℄ 738.5 ℄ 739.0

Match P.T. @ 60 Lt. Ramp E Sta. 34+00

494+58 741.9

Temp. ×746.97 4:1 2:1 ℄ 739.0 ℄ 740.0

Match Line See Sheet No. 183

493+80 742.1

×747.38 4:1 2:1 ℄ 740.0

Match Line See Sheet No. 183

493+00 743.1

×748.37 4:1 2:1 ℄ 741.0

Match Line See Sheet No. 182

491+60 744.3

×748.84 4:1 2:1 ℄ 741.6

290'

Match Pt. Ramp C Sta. 31+00 @ 18° Lt.

℄ Ramp F Sta. 29+35 @ 90° Lt.

Sta. 491+00

End Area Cut	End Area Fill	Volume Cut	Volume Fill
127	116		
		818	697
220	117		
		260	163
61	58		
		105	102
52	51		
		192	204
90	52		
		126	246
98	74		
		97	185
24	71		
		99	144
15	85		

I-71 X-Sections - Sta. 491+50 to Sta. 496+00 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

135
333

FRANKLIN COUNTY FRA-280-8.04

SEEDING			END AREA		VOLUME	
END WIDTH	LB PER 1000 SQ. FT.		CUT	FILL	CUT	FILL
69	794	500+50	9	168		
					50	575
74	856	501+50	18	143		
					76	559
80	933	500+50	23	169		
					111	606
88	994	499+50	27	114		
					195	411
91	1058	498+50	26	108		
					128	496
99	567	497+50	23	127		
					63	221
105	1222	497+00	35	112		
					300	422
115		Sta. 496+00	127	116		

Ramp E

Ramp E

Ramp E

Ramp E

Temp Run-Around

Ramp E

Temp Run-Around

Ramp E

Temp Run-Around

Ramp "E"

I-71 X-Sections - Sta. 497+00 to Sta. 502+50 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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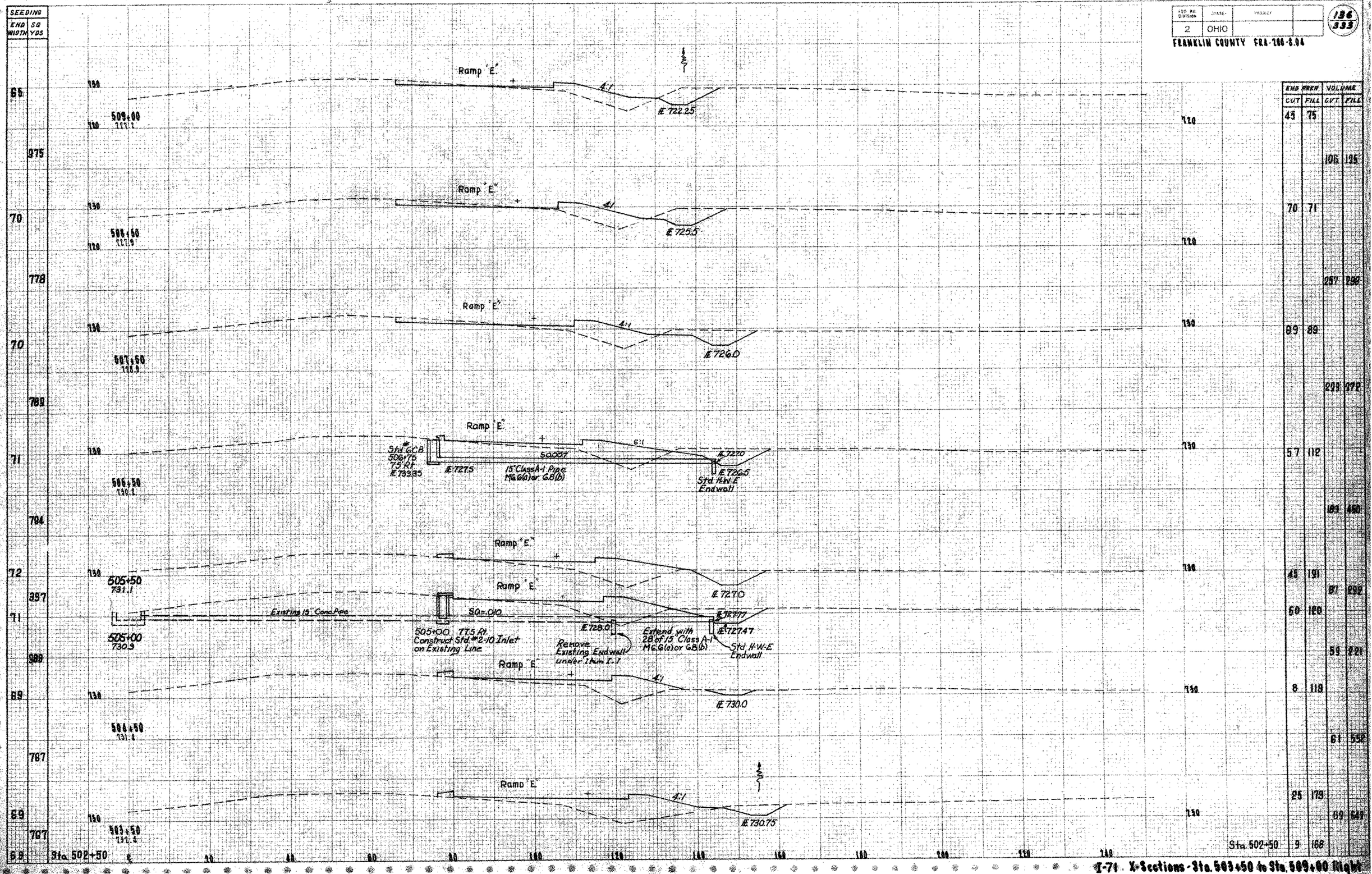
333

SEEDING	
END WIDTH	SQ YDS
65	975
70	778
70	789
71	784
72	397
71	388
69	787
69	797

END AREA		VOLUME	
CUT	FILL	CUT	FILL
45	75		
		106	135
70	71		
		257	289
89	89		
		295	272
57	112		
		181	450
45	191		
		87	292
60	120		
		59	221
8	119		
		61	552
25	179		
		89	649
9	168		



I-71 X-Sections - Sta. 503+50 to Sta. 509+00 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-280-8.84

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Seeding End Width	Seeding Sq. Yds.		
8	78	519+00	
8	44	518+00	
2			
	72		
11			
	111		
5			
	117		
12			
	193		
12			
	133		
12			
	278		
38			
	222		
42			
	599		
54			
	231		
25		Sta. 508+00	

519+00 718.0
518+00 718.0
517+00 718.0
516+00 720.0
515+00 721.0
514+00 719.0
513+00 722.0
512+00 723.0
511+00 725.0
510+50 726.0
509+50 726.5

4:1

Exist. 15" Conc. Pipe

℄ 718.0 Existing

℄ 720.0 Existing

℄ 721.0 Existing

℄ 719.0 Existing

END WORK
STA. 518+80

℄ 718.0

℄ 725.0

Sta.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
518+80	0	0	30	0
518+00	16	0	67	0
517+00	15	0	63	3
516+00	19	5	72	18
515+00	20	5		
			89	26
514+00	25	10		
			96	54
	27	19		
			82	74
	17	21		
			70	174
	21	79		
			47	197
	90	75		
			168	228
	61	47		
			98	113
Sta. 509+00	45	75		

I-71 X-Sections-Sta. 509+50 to Sta. 519+80 Right

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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Begin Work Sta. 371+32

Begin Project Sta. 373+00.00 S.L.M. 8.04

℄ Survey 1961 S.R. 200

S53°51'07"E

Sta. 374+25.15 ℄ S.R. 200 · Sta. 25+69.21 Ramp "A"

See Sheet 139

Match Line - Sta. 353+50

Joseph & Margaret Ewing

Marie & Ermal Ball

Carl L & Elizabeth A Alford

Lena Crocker

Struc. No. FRA-200-0806 See Sheets Nos. 249-260

East Bound S.R. 200

"K" C-D Road

℄ Lazar Road

N12°01'00"E

Ex. R/W

Brush Ex. R/W

50'

89°34'

Provide stub and plug

Temporary Approach Limits

To Be Abandoned Field Road

Future 24 C.B.

Future 21

Future 5 C.B.

Corner Post Assembly 88'Rt. Ramp "D" Sta. 19+00

Corner Post Assembly 75' Lt. Ramp "D" Sta. 20+37

Future Const. Limits

Access Road

350' SR 200 Sta. 370+27.25

514.27' SR 200 Sta. 373+81.75

Intermediate Anchor Post Assembly 58' Rt. Ramp "D" Sta. 23+00

Delbert & Freda Perdue

Struc. No. FRA-200-0819 See Sheet Nos. 261-276

Sodded Gutter See Sh. No. 217

Field Line

H. Griffith Carlisle

Ramp "A" Curve Data
Δ = 140°29'01"
D = 7°30'00"
R = 763.94'
L = 1873.12'

7R Remove Topsoil to Depth of 6"

Ramp "D" Curve Data
Δ = 47°07'28"
D = 3°00'00"
R = 1909.86'
L = 1570.82'

James Barnhouse

Ramp "D"

Ramp "A"

Notes:-
(1) See Sheet Nos. 144 & 145 for Ramp "A" Profile.
(2) See Sheet Nos. 168 & 169 for Ramp "D" Profile.
(3) See Sheet Nos. 20, 108 & 109 for Underdrain & Drainage quantities not shown.
(4) See Sheet No. 161 for Ramp "B" Profile

BEGIN GRADING RAMP "D" STA. 24+00

Intermediate Anchor Post Assembly 68' Rt. Ramp "D" Sta. 26+77.92

517.61' I-71 Sta. 477+49.67
763.01' SR 200 Sta. 376+48.32

PC Sta. 26+77.92

Ramp "D" Curve Data
Δ = 24°07'23"
D = 4°30'00"
R = 1273.24'
L = 536.07'

6" Oil line-Ashland Pipe Line Co.

Struc. No. FRA-200-Ramp "A" under I-71 See Sheet Nos. 277-286

Match Line Sta. 29+00 See Sheet 141

Paved Shoulder

Match Line Sta. 476+00 See Sheet 141

8' Paved Shoulder Ramp "B" Taper

Existing South Bound I-71

Existing Pavement

Existing Special Ditch

Existing R/W Fence

Existing 6' Underdrains

Sodded Gutter See Sh. No. 217

Sta. 381+89.09 ℄ S.R. 200 Sta. 465+26.00 ℄ I-71

See Sheet 142

Sta. 471+46.63 ℄ I-71 Sta. 471+40.63 ℄ Ramp "A"

ABT. N 37°53'16" E 1881.23' to Survey ℄ I-71

Existing Conc. Mon.

Ramp "D" Curve Data
Δ = 2° 30' 31"
D = 1° 30'
R = 3819.72'
L = 167.24'

Survey 1961 S.R. 200

S53°51'07"E

Jesse & Parmelia Spicer

James Centers

East Bound S.R. 200

See Sheet No. 18 Match Line - Sta. 359+00

Match Line - Sta. 365+50

PT. Sta. 359+88.17 SR 200 "D"

105' Rt.

John F. Haag, Jr.

Future Const. Limits

Joseph & Margaret Ewing

PC Sta. 363+00.00 SR 200 "D"

105' Rt.

Marie & Ermal Ball

Patio

15'± Ft.

ROADWAY

REF. NO.	STATION FROM	STATION TO	SIDE	I-71 13" Reinf. Appr. Slab S.Y.	I-15 Guard Rail St. Beam Deep L.F.	55-18 R/W Fence Type "D" L.F.	L-10 Spec. Sodding S.Y.	L-1 Top-soil Stock-piled C.Y.
1R	A 27+29.81	A 27+54.84	Rt.	66.7				
2R	A 35+58	A 37+46	Rt.		187.5			
3R	A 35+71	A 37+46	Lt.		175			
4R	370+27	371+10	Rt.			504		
5R	D 18+93	D 29+00	Rt.			958		
6R	A 27+45		Lt.				16	
7R								4250
Totals				66.7	362.5	1462	16	4250

DRAINAGE

REF. NO.	STATION FROM	STATION TO	SIDE	L-10 Sodding as per plan W=6' S.Y.	L-10 Sodding as per plan W=9' S.Y.	L-120 Jute Matting S.Y.
1D	375+00	380+80	Rt.	387		
2D	A 31+00	A 36+00	Lt.	240		
3D	A 34+60	A 36+15	Lt.			133
4D	A 34+80	A 36+30	Rt.			133
5D	D 25+50	D 29+00	Rt.		450	
Totals				627	450	266

UNDERDRAINS

REF. NO.	STATION FROM	STATION TO	SIDE	I-1 6" Cl. I-3 Pipe Deep L.F.	I-1 6" Cl. F-1 Pipe L.F.	I-5 6" 60° Bend Each	I-5 6" 60° Wye Each
1U	A 27+31	A 36+16	Lt.	885	10		1
2U	A 36+29	A 37+29	Lt.	106	10	1	
Total				991	20	1	1

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
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See Sheet Nos. 110 & 111 for Underdrain & Drainage Quantities not shown.

See Sheet Nº 144 & 145 for Ramp "A" Profile
See Sh. No. 90 for Ramp "A" Nose and Pavement Details.

Ramp 'A' Curve Data
Δ = 18°58'51"
D = 3°00'
R = 1909.86'
L = 632.70'

Intermediate Anchor Post Assembly
48' Rt. Ramp "A" Sta. 11+00

Intermediate Anchor Post Assembly
73.39' Rt. Ramp "A" Sta. 7+50

John D. Dyer & Anna Dyer

Ramp 'A' Curve Data
Δ = 6°00'00"
D = 2°00'
R = 2864.79'
L = 300.00'

See Sheet No. 222 for Culvert Details.

Ramp 'A' Curve Data
Δ = 7°24'04"
D = 1°00'
R = 5729.58'
L = 740.10

70' Rt. Ramp "A" Sta. 4+00
150' Lt. I-71 Sta. 505+30.22
Intermediate Anchor Post Assembly
68' Rt. Ramp "A" Sta. 4+00
Connect to Existing I2-71 R/W Fence

See Sh. No. 139 Match Line Sta. 14+50

10R — Paul Crocker
See Sheet Nº 105 for Details of Temporary Pavement

See Sheet Nos. 110 & 111 for details & quantities of Temporary Guardrail

9+30 – 12+50 Lt. Special Ditch

Exist. Ditch

Ex. 6" U drain

Sta. 500+82.84

230.92' I-71 Sta. 498+47.09

P.C. Sta. 10+40.10

P.C. Sta. 7+40.10

+03 Rt. 732.68

4+00 – 10+00 Rt. Special Ditch

Exist. R/W Fence

Connect to Exist. I-71 R/W Fence

Existing Ditch

"A" P.C. 0+00.00
℄ I-71 509+25.00 66' Lt.

Pℓ

Rt. 725.90

10' Paved Shoulder

D=1°00'

V.M.S.# 4641
V.M.S.# 4642
V.M.S.# 6849

Pℓ V.M.S.# 4641 V.M.S.# 426

Existing South Bound I-71

Concrete Pavement

Ex. 6" U drain

℄ Survey = ℄ I-71
N 37°53'18" E
Exist. Conc. Mon.

Ex. #4 C.B.

Ex. 15" S.S.

Ex. 6" U drain

Existing North Bound I-71

Concrete Pavement

Exist. Conc. Mon.

See Sheets 139 & 143 Match Line Sta. 494+50

"J" C-D Road

Begin Paving Sta. 497+00

Existing Ditch ST Sta. 39+37.18

41 N 35°37'31" E

+11 Rt. 729.0

PC Sta. 44+37.43
D=0°30'

PT Sta. 46+15.82

48 N 36°13'02" E 249

Match Line Sta. 510+00

RAMP "E"

C.S. Sta. 36+87.18

34+75 Rt.
Begin Special Ditch

See Sh. No. 222 for Culvert Details.

10' Paved Shoulder

Trees

Exist. R/W Fence

80' Ramp "E" Sta. 42+00
196.54' I-71 Sta. 502+68.26

Franklin Development Co. Limited

Intermediate Anchor Post Assembly
78' Rt. Ramp "E" Sta. 42+00

+83 Rt. 727.21

Intermediate Anchor Post Assembly
78' Rt. Ramp "E" Sta. 48+00
80' Ramp "E" Sta. 48+00
175.61' I-71 Sta. 508+66.30

Intermediate Anchor Post Assembly
101.22' Rt. Ramp "E" Sta. 38+15.70

270' I-71 Sta. 495+00

Intermediate Anchor Post Assembly 268' Rt. I-71 Sta. 495+00

Ramp "E" Curve Data
Δ = 29°17'39"
D = 5°00'
R = 1145.92'
L = 585.88'

Ramp "E" Spiral Data
Ls = 250.00'
Θs = 6°15'00"
P = 2.27'
K = 124.95'
X = 249.70'
Y = 3.08'

See Sheet No. 98 & 99 for Ramp "E" Nose and Pavement Details.
See Sheet Nºs 177 & 178 for Ramp "E" Profile

STRUCTURES

REF. NO.	STATION	SEE SH. NO.	I-1 18" C.M. Pipe (4 & 6) M & B	I-2 Mas-onry Cl. "C"	I-10 Riprap as per plan
			L.F.	C.Y.	S.Y.
15	"A" 9+00	222	78	8	35
25	"E" 34+85	222	74	6.6	50
	Total		152	14.6	85

ROADWAY

REF. NO.	STATION FROM	STATION TO	SIDE	I-12 Spec. Conc. Curb	I-12 Conc. Curb Type G	I-20 4" Cap. Med. Pav't Type 1	SS-18 R/W Fence Type D	L-10 Sodding as per plan W=6'	L-10 Sodding as per plan W=9'	L-6 Roadside Cleanup
				L.F.	L.F.	S.Y.	L.F.	S.Y.	S.Y.	Units
1R	E 36+33	E 38+38	LT	200						
2R	500+83	501+83	LT		103					
3R	"A" 7+40	"A" 8+40	LT		103					
4R	"A" 7+40	"A" 7+60	LT			12				
5R	"A" 11+00	"A" 14+50	RT				1024			
6R	E 39+68	E 50+30	RT				1585			
7R	"A" 4+00	"A" 14+50	RT						1050	
8R	"A" 9+00	"A" 12+00	LT					200		
9R	E 35+00	E 51+00	RT						1603	
10R										32
	Total			200	206	12	2609	200	2653	32

UNDERDRAINS

REF. NO.	STATION FROM	STATION TO	SIDE	I-1 Deep 6" CI. I-3 Pipe	I-1 Deep 8" CI. F-1 Pipe	I-5 6" 60° Wye Each	I-5 6" 60° Bend Each
				L.F.	L.F.		
1U	E 34+25	E 44+34	RT	1040	10	1	
2U	E 44+38	E 46+09	RT	209	10	1	
3U	E 46+13	E 54+33	RT	855	10	1	
4U	E 54+37	E 57+75	RT	338			
5U	"A" 0+00	"A" 8+00	RT	800			
6U	"A" 8+03	"A" 14+50	RT	671	10		1
	Total			3913	40	3	1

John D. Dyer & Anna Dyer — Carma & Stella Sexton — V.M.S.# 4641 V.M.S.# 426 — Exist. R/W Fence

Franklin Development Co. Limited

℄ Exist. Ditch

Ex. 6" U drain

Existing South Bound I-71

Concrete Pavement

Ex. 6" U drain

Match Line Sta. 510+00

Exist. Conc. Mon.

℄ Survey = ℄ I-71 N 37°53'18" E

Ex. #4 C.B.

Ex. 15" S.S.

Ex. 6" U drain

Existing North Bound I-71

+10 Rt. 719.39

+37 Rt. 720.03

Concrete Pavement

+75 Rt. 716.65

RAMP "E" N 36°13'02" E

10' Paved Shoulder

"E" 58+15.60
℄ I-71 518+80.00 66' Rt.

Exist. Ditch

Exist. R/W Fence

Match Line Sta. 519+00

Connect to Existing I2-71 R/W Fence.

150' I-71 Sta. 511+00

51+00 Rt.
End Special Ditch

Intermediate Anchor Post Assembly
59' Rt. Ramp "E" Sta. 50+30

I-71 Interchange - North of S.R. 2

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

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ROADWAY

REF. NO.	STATION FROM	STATION TO	SIDE	I-7 15" Rein. Conc. App. Slab S.Y.	I-12 Conc. Curb Type 6 L.F.	I-12 Spec. Conc. Curb L.F.	I-21 4" Conc. Med. Mt. Type I S.Y.	SS-18 R/W Fence Type D L.F.	I-15 6" Rail Beam Deep L.F.	I-15 Temp. Guard Rail L.F.	L-10 Special Sod S.Y.	L-6 Roadside Cleanup Units
1R	A 21+36	A 22+36	Lt.		103							
2R	A 21+36	A 21+56	Lt.				18					
3R	C 4+65	C 5+65	Lt.		103							
4R	A 23+88.58	A 24+08.58		66.7								
5R	376+67	377+67	Lt.		103							
6R	B 11+87	B 12+87	Lt.		103							
7R	B 11+87	B 12+07	Lt.				18					
8R	369+92	371+10	Lt.					287				
9R	C 0+00	C 0+16	Rt.					977				
10R	A 14+50	A 16+73	Rt.					219				
11R	B 21+60	B 25+06	Rt.			346						
12R	A 22+83.5	A 24+00	Lt.						162.5			
13R	A 18+42	A 23+92	Lt.						555			
14R	A 23+87	A 23+93	Lt.							26.3		
15R	A 16+73	A 22+55	Rt.							575		
16R												248
Total				66.7	412	346	36	1483	717.5	575	26.3	248

DRAINAGE

REF. NO	STATION FROM	STATION TO	SIDE	I-1 15" (13" M-6.01 or 4.81 (1) Cl. A-1 L.F.	I-1 21" (M-6.01 or 4.81 (1) Cl. A-1 L.F.	I-8 Std. No. 5 C.B. Each	L-10 Sodding as per plan W=9' S.Y.	L-120 Jute Matting S.Y.
1D	B 14+00	B 20+00	Rt.				440	133
2D	B 15+50	B 14+50	Lt.					133
3D	B 12+50	B 13+85	Lt.					133
4D	A 21+25	A 22+75	Lt.					133
5D	C 3+25	A 14+50	Rt.				548	
14B	A 21+25	B 14+75	Lt.		56	1		
14A	B 14+75	B 14+00	Lt.	88		1		
14	B 14+00	B 12+50	Rt.		161	1		
Total				88	56	161	3	988	532

UNDERDRAINS

REF NO	STATION FROM	STATION TO	SIDE	I-1 Deep 6" CI-3 Pipe L.F.	I-1 Deep 6" CI. F Pipe L.F.	I-5 6" 60° Bend Each	I-5 6" 60° Wye Each
1U	A 14+50	A 16+73	Rt.	223			
2U	C 0+00	C 6+00	Rt.	600			
3U	A 21+35	A 24+00	Lt.	272	10	1	
4U	B 12+52	B 23+65	Rt.	1121	10		1
5U	B 10+00	B 12+48	Rt.	206	60		1
Total				2422	80	1	2

Ramp "C" Spiral Data
Ls = 200.00'
θs = 4°30'
P = 1.31'
K = 99.98'
X = 199.88'
Y = 5.23'

Ramp "C" Curve Data
Δ = 33°01'56"
D = 4°30'
R = 1273.24'
L = 734.05'

T C-D Road Curve Data
Δ = 0°48'22"
D = 1°00'
R = 5729.58'
L = 81.17'
427.36
SR 200 Sta. 373+41.51

Ramp "A" Curve Data
Δ = 18°58'51"
D = 3°00'
R = 1909.86'
L = 632.70'

Ramp "A" Spiral Data
Ls = 250.00'
θs = 3°45'
P = 1.36'
K = 124.98'
X = 249.83'
Y = 5.45'
746.88'
SR 200 Sta. 377+02.19

Ramp "A" Spiral Data
Ls = 250.00'
θs = 9°22'30"
P = 3.41'
K = 124.39'
X = 249.33'
Y = 13.61'

Ramp "C" Curve Data
Δ = 17°09'07"
D = 3°00'
R = 1909.86'
L = 571.74'

Ramp "B" Curve Data
Δ = 220°31'59"
D = 24°54'40"
R = 230.00'
L = 885.28'

Ramp "B" Spiral Data
Ls = 200.00'
θs = 24°54'40"
P = 7.20'
K = 99.37'
X = 196.25'
Y = 28.60'

Ramp "B" Spiral Data.
Ls = 200.00'
θs = 24°54'40"
P = 7.20'
K = 99.37
X = 196.25'
Y = 28.60

Ramp "A" Curve Data
Δ = 140°29'01"
D = 7°30'
R = 763.94'
L = 1873.12'

Notes:
(1) See sheet Nos. 144 & 145 for Ramp "A" profile
(2) See sheet No. 146 for Ramp "C" profile.
(3) See sheet No. 161 for Ramp "B" profile
(4) See sheet No. 93 for details of Ramp "A" & "C" Nose & Pavement
(5) See sheet No. 92 for details of Ramp "B" Nose & Pavement
(6) See sheet No. 94 for Ramp "C" pavement Details

Intermediate Anchor Post Assembly 48' Rt. Ramp "C" Sta. 1+00
Intermediate Anchor Post Assembly 48' Rt. Ramp "C" Sta. 4+00
Intermediate Anchor Post Assembly 70' Rt. Ramp "C" Sta. 6+00
Intermediate Anchor Post Assembly 48' Rt. Ramp "A" Sta. 15+00
Corner Post Assembly 101' Rt. Ramp "C" Sta. 10+19

Begin Work Sta. 371+32
Begin Project Sta. 373+00.00 S.L.M. 8.04
Begin Paving Sta. 376+66.58
End Paving Sta. 374+47
Structure No. FRA-200-0806 see sheet Nos. 249-260
Structure No. FRA-200-0819 see sheet Nos. 261-276
See Sheet 138 Match Line Sta. 494+50
See Sheet 138 Match Line Sta. 142+50
See Sheet 38 Match Line Sta. 359+00
See Sheet 140 Match Line Sta. 366+00
See Sheet 140

Ralph & Dorothy Ryerson
Ouda A. Blevins
Bldg. Fdn. Ruins
Earl & Frances Rutherford
Jesse & Parmelia Spicer
Anna Dyer
Paul Crocker (Land Contract) Dimitar Traikovich (Fee)
Burley Spaulding (Land Contract) Dimitar Traikovich (Fee)
Lena Crocker (Land Owner) Dimitar Traikovich (Fee)
Delbert & Freda Perdue (Land Contract) Dimitar Traikovich (Fee)
James Centers
John F. Haag, Jr.
Joseph & Margaret Ewing
Marie & Ermal Ball
Carl L. & Elizabeth A. Alford
H. Griffith Carlisle
Jesse & Parmelia Spicer

VMS #4641
VMS #6843
VMS #6819
VMS #6816

Acceleration Lane-Ramp "C"
Field Road
Westbound Lanes
Eastbound Lanes
Ramp "A"
Ramp "B"
Ramp "C"
T C-D Road
Existing South Bound I-71
Existing Special Ditch
Existing 6" Underdrains
Existing Concrete Pavement
Existing E/W Fence
Existing Guard Rail
Existing Shoulder
Existing Slope
Natural Slope
Grass
Field
Lazor Road
Future No. 5 C.B.
Future No. 8 C.B. Inter 16
Future No. 8 C.B.
Future Std. 2-24 C.B.
Provide stub and plug
Sodded Gutter See Sh. No. 217
3' Paved Shoulder
10' Paved Median
Special Ditch See Misc. Sect.
Bldg. Found
1 Sty. Fr.
1 Sty. Stucco
1 Sty. Fr. Res.
Hse. Tr.
Tr.
Survey 1961 S.R. 200
Survey 1961 S.R. 200 S 55°51'07" E 376
Joseph & Margaret Ewing S 54°39'49" E
James Centers S 55°02'44" E
Jesse & Parmelia Spicer N 12°00'00" E
Jesse & Parmelia Spicer N 36°30'32" E
Survey 1961 S.R. 200 N 36°30'32" E
Survey 1961 S.R. 200 S 55°51'07" E 361
Survey 1961 S.R. 200 S 55°51'07" E 376
Survey 1961 S.R. 200 See Sheet 140
Survey 1961 S.R. 200 See Sheet 140
PT. 359+88.17
PC. 371+75.79 89°LT.
ST. 19+52.79 LT.
ST. 22+85.28 "B"
487+72.42 I-71 100.33 LT.
319+59.08 S.R. 200 113 LT.
PRC. 4+00 "C"
CS. 16+72.79 "A"
CS. 20+85.28 "B"
CS. 13+05.79 "C"
ST. 15+05.79 "C"
T5. 10+00 "B"
T5. 19+39.75 "A"
370.76
I-71 Sta. 494+83.11
746.88'
SR 200 Sta. 377+02.19
528.72
SR 200 Sta. 375+08.34
1146.33 ft. 727.32 ft.
+00 ft. 727.32 ft.
+65 ft. 746.22
+39 ft. 725.83
+01 ft. 725.83
S.C. 125.00 ft.
S.C. 125.00 ft.
Acceleration Lane-Ramp "C"
Ramp "C" Sta. 355+02.44 E 18
Ramp "C" Sta. 366+00
Ramp "C" Sta. 377+05.79 "C"
Ramp "A" Sta. 370.76
Ramp "A" Sta. 375+08.34
Ramp "A" Sta. 377+02.19
Ramp "B" Sta. 487+72.42
Ramp "B" Sta. 319+59.08
Ramp "B" Sta. 373+41.51
Ramp "C" Sta. 374+47
Ramp "C" Sta. 376+66.58
Ramp "C" Sta. 366+00
Ramp "C" Sta. 377+05.79 "C"
Ramp "C" Sta. 355+02.44 E 18
Ramp "C" Sta. 359+88.17
Ramp "C" Sta. 359+00

FED. RD. DIVISION	STATE	PROJECT		
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ROADWAY

Ref. No.	Station From	Station To	Side	I-12 Conc. Curb Type G L.F.	I-15 G.Rail Ramps Rebuild L.F.	I-15 Temp. Guard Rail L.F.	I-21 4" Conc. Med. Fill Type 1 S.Y.	S5-18 R/W Fence Type "D" L.F.	I-15 G. Rail Steel Beam Type Weep L.F.
1R	467+41	468+41	Rt.	103					
2R	"H" 13+83	"H" 14+83	Lt.	103					
3R	"H" 13+83	"H" 14+03	Lt.				12		
4R	"H" 6+88	"H" 22+50	Rt.					1517	
5R	"D" 29+00	"D" 36+32	Rt.					673	
6R	466+41	466+66	Rt.		25				
7R	"H" 7+97	"H" 13+85	Lt.			575			
8R	"H" 16+00	"H" 22+50	Lt.						650
9R	"H" 17+00	"H" 22+00	Rt.						500
Totals				206	25	575	12	2190	1150

STRUCTURES

Ref. No.	Station	See Sheet No.	I-1 24" Pipe CI.A-1 M-64(d) L.F.	I-2 Masonry CI."C" C.Y.	I-10 Rip Rap as per Plan S.Y.	I-10 D.Rock Channel Prot. C.Y.	I-8 Std. No.5 C.B. Each
1S	"D" 31+50	222	126	5.4	107		1
2S	"H" 20+00	222	106	10.8		40	
Totals			232	16.2	107	40	1

Notes:- (1) See Sheet Nos. 168 & 169 for Ramp "D" Profile
(2) See Sheet Nos. 192 & 193 for Ramp "H" Profile
(3) See Sheet Nos. 102 & 103 for Details of Ramp "H" Nose & Pavement.

Note: For Details & Quantities of Temporary Guard Rail see Sheets Nos. 100 & 107
for Details of Temporary Pavement see Sheet No. 105

Robertshaw-Fulton Controls Co.

End Grading Ramp "D"

℄ Survey ℄ I-71 Curve Data
P.I. Sta. 462+82.90
Δ = 10° 32' 30"
D = 0° 20'
R = 17,188.75'
L = 3,102.50'
T = 1586.75'

Ramp "D" Curve Data
Δ = 12° 30' 21"
D = 3° 00'
R = 1909.86'
L = 416.86'

Ramp "D" Curve Data
Δ = 24° 01' 23"
D = 4° 30'
R = 1273.24'
L = 536.07'

297.05' I-71 Sta. 471+56.45
160' Ramp "D" Sta. 33+85
H. Griffith Carlisle

End Post Assembly
158' Rt. Ramp "D" Sta. 33+78

Intermediate Anchor Post Assembly
88' Rt. Ramp "D" Sta. 30+00

353.79' I-71 Sta. 475+02.59
90.0 Ramp "D" Sta. 30+00

For Culvert Details See Sheet No. 222

PCC Sta. 32+13.99

FRANKLIN COUNTY
FRA-270-8.04

Match Line Sta. 29+00

Ohio Holding Co.

Connect to Exist. I.R.71 R/W Fence
Corner Post Assembly
46' Rt. Ramp "D" Sta. 36+32.00

End Post Assembly
140' Rt. Ramp "D" Sta. 34+01

PCC Sta. 36+38.85

150'
I-71 Sta. 469+37.3

Ramp "D" Curve Data
Δ = 3° 00' 00"
D = 1° 30'
R = 3819.72'
L = 200.00'

Exist. R/W Fence

Begin Uniform Taper "D" 30+31.39
I-71 Sta. 466+80.87 88.92' Lt.

P.T. Sta. 38+30.85

N 31°-54'-04"E

Uniform Taper

Exist. 6" Underdrain

Existing South Bound I-71

Existing North Bound I-71

Exist. 6" Underdrain

Exist. #4 C.B.

Exist. 15" S/S

Exist. 6" Underdrain

℄ Survey = ℄ I-71 D=0° 20'

Exist. Conc. Mon.

Derwood W. & Effie Pauline Lewis

End Paving Sta. 462+50.00

End Paving Sta. 468+40.87

Concrete Pavement

Exist. 6" Underdrain

Exist. 10" S.M.P.

Exist. #4 C.B.

Exist. 15" S/S

Match Line Sta. 461+00

Match Line Sta. 476+00
See Sheets No. 140 & 142

8' Paved Shoulder

Exist. Special Ditch

Exist. R/W Fence

P.C.C. Sta. 7+97.87

Ramp "H" Curve Data
Δ = 12°-00'-00"
D = 1°-30'
R = 3819.72'
L = 800.00'

Intermediate Anchor Post Assembly
98' Rt. Ramp "H" Sta. 11+30

Eugene & Myrtle Hay

H. Griffith Carlisle

Existing Guard Rail shall be removed and rebuilt across private road & back of R/W.

Corn Crib

Water Road

For I-5 Back See I-71 Sh. No. 107

Exist. Paved Gutter

RAMP "H"

19' Paved Shoulder

P.C.C. Sta. 15+97.87

249.84' I-71 Sta. 469+50.5
85' Ramp "H" Sta. 16+10.00

Kenneth & Mary Hay

Ramp "H" Curve Data
Δ = 18°-00'-00"
D = 3°-00'-00"
R = 1909.86'
L = 600.00'

See Sheet No. 222 for Culvert Details.

William H. & Helen Williams

Intermediate Anchor Post Assembly 83' Rt. Ramp "H" Sta. 16+10.00

Gamer O. & Leora R. Yates

Ulner Lee & Dina V. Clark

Private Road

H. Griffith Carlisle

427.47' I-71 Sta. 475+46.75
69.32 Ramp "H" Sta. 22+50.44

Match Line Sta. 142

See Sheet No. 223 for Culvert Extension at both ends.

For Drainage quantities not shown, see Sheet No. 108

Exist. R/W Fence

Ramp "D" Sta. 50+31.50
I-71 Sta. 459+50.67 66' Lt.

Uniform Taper

Exist. 8" Underdrain

Existing South Bound I-71

Concrete Pavement

Exist. 6" Underdrain

℄ Survey I-71

D=0°20'

Exist. #4 C.B.

Exist. 15" S/S

Exist. Conc. Mon.

Existing North Bound I-71

Concrete Pavement

Exist. 6" Underdrain

Exist. 6" Underdrain

Exist. Special Ditch

Exist. R/W Fence

Match Line Sta. 453+00

Begin Ramp "H" Sta. 0+00
I-71 Sta. 462+50 66' Rt.

"H" Sta. 1+00.30
I-71 Sta. 463+30 68' Rt.

Ramp "H" Curve Data
Δ = 3°-24'-55"
D = 1°-30'-00"
R = 3819.72'
L = 158.80'

P.T. Sta. 3+39.10

H. Griffith Carlisle

Connect to Existing I.R.71 R/W Fence
160'
I-71 Sta. 460+34.83

P.C. Sta. 7+13.93

Intermediate Anchor Post Assembly
61' Rt. Ramp "H" Sta. 6+88

Ramp "H" Curve Data
Δ = 1°-14'-55"
D = 1°-30'
R = 3819.72'
L = 83.26'

DRAINAGE

Ref. No.	Station From	Station To	Side	I-10 Dump Rock Chan. Prot. C.Y.	I-14 Paved Gutter Std. Type 1 L.F.	L-10 Sodding as per plan W=6' S.Y.	L-10 Sodding as per plan W=9' S.Y.	L-180 Jute Matting S.Y.
1D	D 29+00	D 33+50	Rt.				450	
2D	D 29+00	D 31+50	Lt.			70		133
3D	D 31+50	D 34+50	Lt.			210		133
4D	D 33+70	D 31+00	Lt.	9.3	130	130		
5D	H 6+50	H 20+00	Rt.	9.3	300		1050	
6D	H 20+00	H 22+00	Rt.			139		
Totals				18.6	430	543	1500	266

UNDERDRAINS

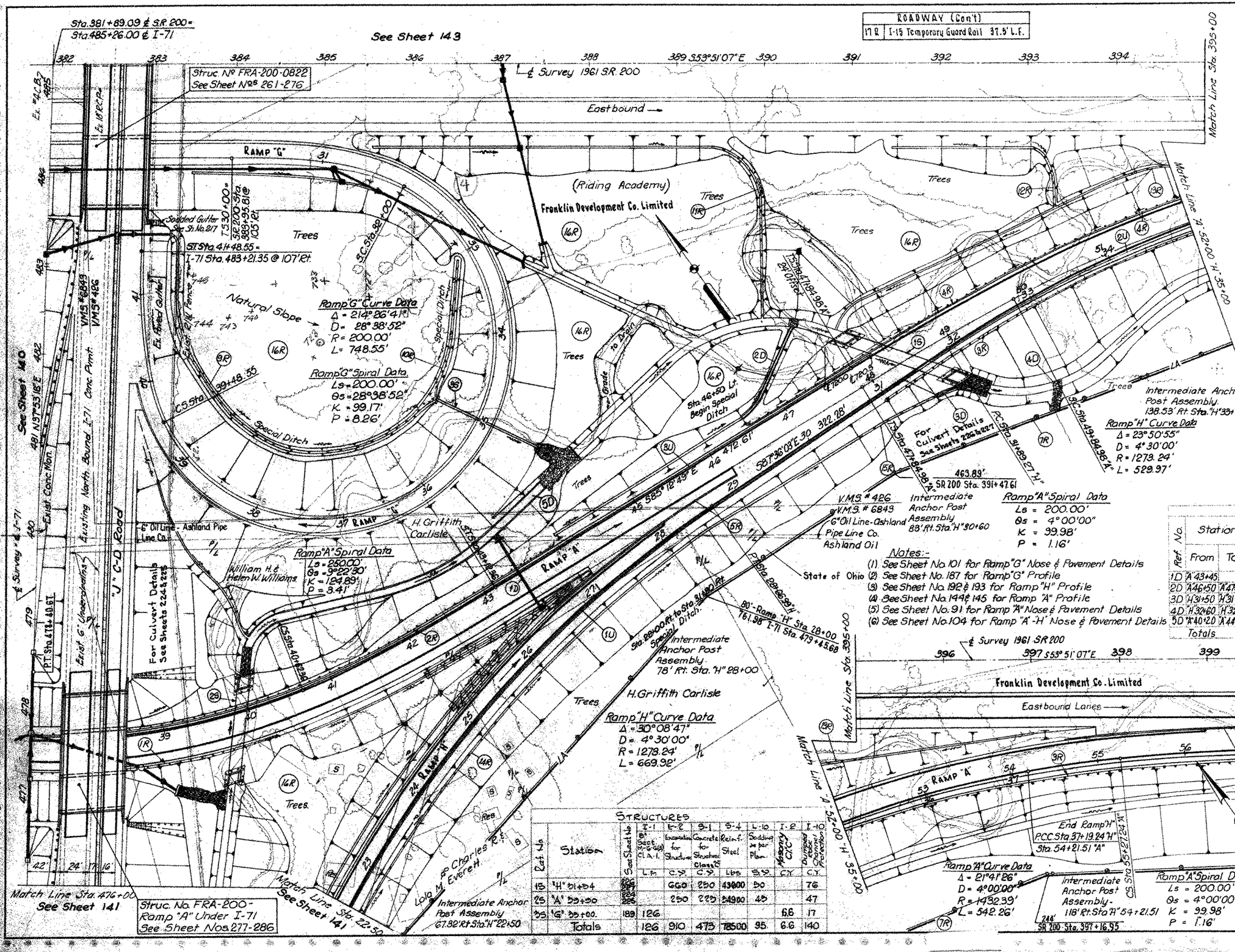
Station From	Station To	I-1 6" Cl. I-3 Shallow L.F.	I-1 6" Cl. I-3 Deep L.F.	I-1 6" C.F.-1 L.F.	I-1 8" C.F.-1 L.F.	I-5 6" Wye Each
1U	"H" 16+45	"H" 17+50	Rt.	130		10	1
2U	"H" 17+52	"H" 22+50	Rt.	388	100	10		
Totals				388	230	10	10	1

I-71 Interchange South Area

FED. RD DIVISION	STATE	PROJECT		142
2	OHIO			

FRANKLIN COUNTY FRA-200-8.04

ROADWAY (Con't)	
17 R	I-15 Temporary Guard Rail 37.5' L.F.


Sta. 381+89.09 ℄ S.R. 200 = Sta. 485+26.00 ℄ I-71
See Sheet 143
See Sheet 140
Struc. No FRA-200-0822 See Sheet Nos 261-276
℄ Survey 1961 S.R. 200
Eastbound
Match Line Sta. 395+00
Ramp "G"
(Riding Academy)
Franklin Development Co. Limited
Trees
Natural Slope
Ramp "G" Curve Data
Δ = 214° 26' 41"
D = 28° 38' 52"
R = 200.00'
L = 748.55'
Ramp "G" Spiral Data
Ls = 200.00'
θs = 28° 38' 52"
K = 99.17'
P = 8.26'
Sodded Gutter See St. No. 217
Special Ditch
Ex. Fence
Ex. Ditch
Grade to Drain
Sta. 46+50 Lt. Begin Special Ditch
Intermediate Anchor Post Assembly 138.53' Rt. Sta. "H" 33+70
Ramp "H" Curve Data
Δ = 23° 50' 55"
D = 4° 30' 00"
R = 1273.24'
L = 529.97'
For Culvert Details See Sheets 226 & 227
463.89' SR 200 Sta. 391+47.61
Ramp "A" Spiral Data
Ls = 200.00'
θs = 4° 00' 00"
K = 99.98'
P = 1.16'
V.M.S. # 426
V.M.S. # 6849
6" Oil Line - Ashland Pipe Line Co.
Ashland Oil
Intermediate Anchor Post Assembly 83' Rt. Sta. "H" 30+60
Notes:-
(1) See Sheet No. 101 for Ramp "G" Nose & Pavement Details
(2) See Sheet No. 187 for Ramp "G" Profile
(3) See Sheet No. 192 & 193 for Ramp "H" Profile
(4) See Sheet No. 144 & 145 for Ramp "A" Profile
(5) See Sheet No. 91 for Ramp "A" Nose & Pavement Details
(6) See Sheet No. 104 for Ramp "A"-"H" Nose & Pavement Details
Struc. No. FRA-200-0822 See Sheet Nos. 261-276
Ex. "A.C.B." 495
Ex. 18" RCP
Ex. Survey "A" 481 N 37° 53' 18" E
Existing North Bound I-71 Conc. Pvmt.
VMS # 6849
VMS # 486
Ex. Survey "A" 480
Existing North Bound I-71 Conc. Pvmt.
Exist. C-O Road
"J" C-O Road
Exist. 6" Underground Oil Line
P.T. Sta. 47+40.61
Ramp "A"
Ramp "H"
Ramp "I"
Ramp "J"
Ramp "K"
Ramp "L"
Ramp "M"
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See Sheet 138 Match Line Sta. 495+00

See Sheet 138 Match Line "E" 34+25

270' I-71 Sta. 495+00 Intermediate Anchor Post Assembly 268' Rt. I-71 Sta. 495+00

32+50 to 34+00 Lt. Special Ditch

Ramp "E" Curve Data
Δ = 29°17'39"
D = 5°00'00"
R = 1145.92'
L = 585.88'
T = 298.10'

Intermediate Anchor Post Assembly 48' Rt. Ramp "E" Sta. 31+38
392.47' I-71 Sta. 492+79.21
740.95' SR 200 Sta. 386+02.84
P.C.C. Sta. 31+01.30

Trees

29+50 to 30+40 Lt. Special Ditch

543.33' I-71 Sta. 491+07.56
564.80' SR 200 Sta. 387+49.83

Intermediate Anchor Post Assembly 48' Rt. Ramp "E" Sta. 29+00

Intermediate Anchor Post Assembly 68' Rt. Ramp "E" Sta. 27+00

454.24' SR 200 Sta. 389+06.76

Ramp "E" Curve Data
Δ = 40°26'25"
D = 4°15'00"
R = 1348.14'
L = 951.54'
T = 496.56'

319.30' SR 200 Sta. 391+55.40

Intermediate Anchor Post Assembly 78' Rt. Ramp "E" Sta. 24+00

249.50' SR 200 Sta. 393+77.89

Intermediate Anchor Post Assembly. 78' Rt. Ramp "E" Sta. 21+49.76

P.C.C. Sta. 21+49.76

Ramp "E" Curve Data
Δ = 13°29'34"
D = 3°00'00"
R = 1909.86'
L = 449.76'
T = 225.94'

183.13' SR 200 Sta. 396+11.48

Intermediate Anchor Post Assembly 181.13' Lt. Sta. 396+11.48

20+50 Rt. End Special Ditch

℄ 715.50e+25

℄ 716.32e+03

Ramp "F" Curve Data
Δ = 210°57'51"
D = 28°38'52"
R = 200.00'
L = 736.40'

S.C. Sta. 22+00

Natural Slope

19+50 to 22+00 Lt. Special Ditch

Ramp "F" Spiral Data
Ls = 200.00'
θs = 28°38'52"
K = 99.17'
P = 8.26'

C.S. Sta. 29+36.40 Begin Paving

28+45 to 28+78 Lt. Special Ditch

T.S. Sta. 20+00 = I-71 Sta. 487+57.81 107' Rt.

S.T. Sta. 31+36.40 = SR 200 Sta. 384+15.08 113' Lt.

Stepped Gutter See Sh. No. 217

Trees

Franklin Development Co. Limited

8' Paved Shoulder

"I" C-D Road

10' Paved Median

Westbound Lanes

West Bound Lanes - S.R. 200

Begin Paving Sta. 395+00

℄ Survey (1961) S.R. 200

399 S53°51'07"E

Struc. No. FRA-200-0822
See Sheet Nos. 261 - 276

See Sheet 142 Sta. 381+89.09 ℄ SR 200 = Sta. 485+26.00 ℄ I-71

See Sheet No. 130 For Ramp "F" Nose & Pavement Details

See Sheet No. 184 for Ramp "F" Profile

See Sheet Nos. 177 & 178 for Ramp "E" Profile

See Sheet No. 98 for Ramp "E" Nose & Pavement Details

End Post Assembly 171' Lt. Sta. 401+80

Ramp "E" Curve Data
Δ = 2°30'14"
D = 1°00'00"
R = 5729.58'
L = 250.39'

End Post Assembly 165' Lt. Sta. 402+40

225' S.R. 200 Sta. 401+50

175.0' SR 200 Sta. 401+50

19+50 Rt. Begin Special Ditch

P.C. 12+34.93 S.R. 200 402+69.83 107.53' Lt.

FRANKLIN COUNTY FRA-200-8.04

P.C. 17+00

P.T. Sta. 14+85.32

Ramp "E"

D=1°00'

150.0' S.R. 200 Sta. 405+00

Stream Crossing Type 2 See Std. Dwg. F-2

N 5° 20' 53" W

Franklin Development Co. Limited

West Bound Lanes - S.R. 200

℄ Survey (1961) S.R. 200

399 S53°51'07"E

Match Line - Sta. 398+00

Match Line - Sta. 405+00 See Sheet 22

See Sheet No. 97 For Ramp "E" Nose & Pavt. Details

See Sheet No. 228 for Culvert Details.

See Sheet No. 229 for Culvert Details.

UNDERDRAINS

Ref. No.	Station From	Station To	Side	I-1 Deep 6" Cl. I-3 Pipe L.F.	I-1 Deep 8" Cl. F-1 Pipe L.F.	I-1 Shallow 6" Cl. I-3 Pipe L.F.	I-1 Shallow 6" Cl. F-1 Pipe L.F.	I-5 6" 60° Wye Each
1U	E 10+05	E 18+03	Rt.			788	10	
2U	E 18+07	E 34+25	Rt.	1643	10			1
Totals				1643	10	788	10	1

ROADWAY (Con't)

7R	I-15 Temporary Guard Rail 25 L.F.

ROADWAY

Ref. No.	Station From	Station To	Side	I-12 Conc. Curb Type 6 L.F.	I-21 4" Conc. Med. Pvt. Type 1 S.Y.	55-18 R/W Fence Type "D" L.F.	I-12 Spec. Conc. Curb L.F.	L-6 Rock Excav. Units
1R	393+93	394+37	Lt.	103				
2R	E 20+64	E 21+68	Lt.	103				
3R	E 20+68	E 20+88	Lt.		14			
4R	E 10+05	E 34+25	Rt.			2343		
5R	F 29+36	F 29+85	Lt.				49	
6R								178
Total				206	14	2343	49	178

DRAINAGE

Ref. No.	Station From	Station To	Side	L-10 Sodding as per plan W=6' S.Y.	L-10 Sodding as per plan W=9' S.Y.	L-10 Sodding as per plan W=10.5' S.Y.	I-14 Paved Gutter Std. Type 1 L.F.	L-120 Jute Matting S.Y.
1D	F 29+00	F 30+00	Rt.	283				267
2D	E 22+00	E 26+50	Lt.	200				193
3D	E 22+00	E 27+50	Rt.	367				
4D	E 18+00	E 22+00	Rt.		400			
5D	E 13+08	E 18+00	Rt.			556	20	
6D	F 27+75	F 28+85	Lt.					193
Total				850	400	556	20	933

I-71 Interchange - N.E. Quadrant

FED. HWY. DIVISION	STATE	PROJECT
2	OHIO	

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Excavation	81,818 cy
Embankment	34,518 cy
Embankment +15%	39,707 cy

For Left Edge Southbound I-71 Pavement see Sheet No. 90

Graphic Grade for Right Edge Ramp "A"

Pavement Elevations
Rt. Edge Ramp "A" 731.27
Lt. Edge Ramp "A"

731.77 732.28 732.75 733.23 733.69 734.15 734.61 735.06 735.51 735.95 736.38 736.80 737.20 737.60 738.02 738.21 738.40 738.56 738.77 738.91 739.00 739.04 739.10 739.31 739.53 739.82 740.48 741.07 741.63 742.11 742.59 743.07 743.55 744.03 744.51 744.99 745.47 745.95

731.77 732.28 732.75 733.23 733.69 734.15 734.61 735.06 735.51 735.95 736.38 736.80 737.20 737.60 738.02 738.21 738.40 738.56 738.77 738.91 739.00 739.04 739.10 739.31 739.53 739.82 740.48 741.07 741.63 742.11 742.59 743.07 743.55 744.03 744.51 744.99 745.47 745.95

750

740

730

Direction of Traffic

℄ I-71 Sta 509+25.00 Ramp "A" - 66' Lt.

Right Edge Ramp "A" (Profile Grade)

Sta 6+40.10 "Nose" Ramp Pavement Width 26'

Sta 8+40.10 Ramp Pavement Width 24'

100' V.C.

P.V.I. Sta 9+00 El. 736.05

P.V.T. Sta 9+50

+0.28%

+0.96%

+84 34' Rt. 8" Outlet ℄ 732.50

+100 ℄ 732.50

+03 ℄ 732.68

18" Culvert

6" Underdrains (Deep) @ 3' Rt.

℄ 738.70

℄ 734.88

℄ 731.43

Sta 6+50

Sta 7+00

Sta 9+25

Sta 11+50

Superelevation Transition From .017 to .033 ft/ft

Superelevation @ .033 ft/ft

Superelevation Transition From .033 to .049 ft/ft

Superelevation @ .049 ft/ft Left Edge Raised

Exist 6" U.D. 68' Lt. S.F.S.

℄ 725.90

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

731.1 731.7 732.8 732.6 733.2 733.8 733.9 734.3 734.8 734.6 734.6 734.5 734.3 734.1 733.8 734.7 735.6 736.4 737.1 736.7 736.5 739.2 739.9 740.7 741.8 742.3 742.8 743.5 744.8 745.1 746.1 746.6 747.3

Ramp "A" Profile - Sta. 0+00 to Sta. 32+00

Right Edge Ramp "A" is Profile Grade and Alignment Line

Left Edge Ramp "A" is Profile Grade and Alignment Line

Structure No. FRA 200-0806

150' V.C.

PVC Sta 18+22.79

PVT Sta 19+22.79

P.V.I. Sta 19+00 Elev. 747.65

Left Edge Ramp "A" (Profile Grade)

+1.92%

-1.92%

℄ 749.50

℄ 750.80

+33 ℄ 745.96 6" Underdrain (deep) @ 3'4" Lt.

PVC Sta 23+19.21 El. 755.70

P.V.I. Sta 25+69.21 Elev. 760.50

Sta 24+08.38

Sta 27+29.84

Bridge Limits

See Sheet No. 271 for Structure Data

+31 ℄ 750.89

℄ 749.50

PVT Sta 28+19.21 El. 755.70

6" Underdrain (deep) @ 3'4" Lt.

℄ 742.19

500' V.C.

Prop. 6" C/I.S. 3' Ct. @ 0.90% (Deep)

℄ 738.73

Sta 16+25

Sta 17+79 Ramp "A"

Sta 0+00 Ramp "C"

℄ 739.40 (See Ramp "C" Sheet No. 196)

Note: Profile Crosses Pavement @ 19+22.79 (Level Section)

Superelevation Transition From .049 ft/ft Left Edge up to Level Section

Superelevation Transition From Zero to .083 ft/ft Right Edge Raised

Sta 22+25

Superelevation @ .083 ft/ft Right Edge Raised

730 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

747.3 747.7 750.8 750.7 749.4 749.5 749.6 749.1 749.5 750.2 751.8 751.4 750.7 752.6 751.4 751.2 751.1 750.6 750.6 751.0 752.6 752.1 751.9 753.7 754.0 755.6 757.1 756.2 756.1 756.1 756.8 757.1

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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Pavement Elevations Right Edge Ramp "A" / Left Edge Ramp "A"

750.39 / 748.59 | 749.43 / 747.43 | 748.42 / 746.42 | 747.51 / 745.51 | 746.55 / 744.55 | 745.59 / 743.59 | 744.63 / 742.63 | 743.67 / 741.67 | 742.71 / 740.71 | 741.75 / 739.75 | 740.79 / 738.79 | 739.83 / 737.83 | 738.87 / 736.87 | 737.91 / 735.91 | 736.95 / 734.95 | 735.99 / 733.99 | 735.03 / 733.03 | 734.03 / 732.07 | 732.89 / 731.11 | 732.20 / 730.45 | 731.58 / 730.22 | 730.99 / 729.83 | 730.44 / 729.48 | 729.94 / 729.16 | 729.51 / 728.86 | 729.10 / 728.64 | 728.69 / 728.43 | 728.10 / 728.05 | 727.67 / 727.62 | 727.39 / 727.29 | 726.91 / 726.91 | 726.33 / 726.33 | 726.15 / 726.15 | 725.77 / 725.77 | 725.39 / 725.39 | 725.01 / 725.01 | 724.63 / 724.82

Structure No. FRA 200-Ramp "A" Under I-71

See Sheet No. 138 for Structure Data

Right Edge Ramp "A" is Profile Grade and Alignment Line

Left Edge Ramp "A" is Alignment Line

Left Edge Ramp "A" is Profile Grade Line

Normal Crown

6" Oil Line-Ashland Pipe Line Co.

Superelevation @ .083 ft/ft Right Edge Raised

Superelevation Transition from .083 ft/ft Normal Crown

200' V.C.

Left Edge Ramp "A" (Profile Grade)

1.92 %

℄ 742.19

6" Underdrain (Deep) @ 3'-4" Lt.

Sta 40+25.00

PVC Sta 41+00.00

P.V.I. Sta 42+00.00 Elev. 729.19

PVT Sta 43+00.00

Sta 43+25.00

6" Oil Line-Ashland Pipe Line Co.

Left Edge Ramp "A" (Profile Grade)

Sta 47+25.00 Profile Grade Crosses Pavement

Sta 47+84.28 Right Edge Ramp "A" (Profile Grade)

Graphic Grade

-0.76 %

Direction of Traffic

18" Cl. A-1 Pipe S=0.013 Ft./Ft.

℄ 732.50

℄ 730.94

Sta 36+15 16' Lt. No. 3C.B.

Sta 36+90 46' Rt. No. 3C.B.

Sta 37+46 Std. M.H. Inlet North 188.90 Inlet South 188.90 See Sheet 189

℄ 733.0

℄ 730.00

18" Cl. A-1 Pipe S=0.03 Ft./Ft.

℄ 726.10

726.00

720.00

Sta 38+10 Std. M.H.

S=0.005 Ft./Ft.

Sta 39+90 Std. H.W.-E. Endwall

12'-0" x 7'-0" Box Culvert

15" Class A-1 (Shallow)

℄ 723.50

℄ 720.9

℄ 720.0

For Left Edge Ramp "A" & Right Edge Eastbound S.R.200 Pavement See Sheet No. 91

Graphic Grade for Right Edge Ramp "A"

Right Edge Ramp "A" (Profile Grade)

-0.76 %

12'-0" x 7'-0" Box Culvert

Note:- For Underdrain Data back on Right see Sheet No. 189 Ramp "A"

℄ 715.7

6" Class I-3 Pipe Et. (Shallow)

Sta 54+25.00

Sta 54+87.14 Ramp Pavement Width = 28'

Sta 57+27.27 Ramp Pavement Width = 24'

End Curb

Sta 57+50.00

+30 ℄ 714.11

+20 ℄ 714.6

Superelevation @ .016 ft./ft. to End of Taper at Sta 69+27.02 Ramp "A" & 66' Rt. ℄ S.R. 200 Sta 412+00.00 For Elevations See Sheet No. 23

Superelevation Transition from .021 to .016 ft./ft.

Direction of Traffic

Note:- For Underdrain ahead see Sheet No. 22 S.R. 200

132" C.M.P.

34" R.C.P.

Sta 63+25.00

Sta 63+75.00

Superelevation Transition from Normal Crown to .066 ft/ft Left Edge Raised

Superelevation @ .066 ft/ft Left Edge Raised

Superelevation Transition from .066 ft/ft to .021 ft/ft Lt. Edge Raised

Superelevation @ .021 ft./ft.

Pavement Elevations Right Edge Ramp "A" / Left Edge Ramp "A"

721.92 / 721.92 | 721.69 / 721.69 | 721.85 / 721.85 | 724.02 / 724.02 | 724.68 / 724.68 | 724.31 / 724.31 | 722.93 / 722.93 | 722.35 / 722.35 | 721.97 / 721.97 | 721.59 / 721.59 | 721.17 / 721.17 | 721.79 / 721.79 | 722.41 / 722.41 | 722.03 / 722.03 | 722.65 / 722.65 | 721.66 / 721.66 | 721.27 / 721.27 | 719.69 / 719.69 | 719.38 / 719.38 | 718.15 / 718.15 | 719.00 / 719.00 | 720.16 / 720.16 | 719.80 / 719.80 | 719.56 / 719.56 | 719.37 / 719.37 | 719.06 / 719.06 | 718.73 / 718.73 | 718.42 / 718.42 | 717.92 / 717.92 | 717.69 / 717.69 | 717.38 / 717.38 | 717.05 / 717.05 | 716.73 / 716.73 | 716.42 / 716.42 | 716.10 / 716.10 | 715.79 / 715.79 | 715.47 / 715.47 | 715.18 / 715.18 | 714.92 / 714.92

Ramp "A" Profile-Sta 32+00 to Sta. 64+50

SHEET NO.	STATE	PROJECT	
2	OHIO		

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SEEDING

END WIDTH	SQ. YDS.
141	607
139	662
136	670
136	1119
140	991
143	1611
147	

Match Line See Sheet 132

Match Line See Sheet 132

Match Line See Sheet 132

Match Line See Sheet 132

Match Line See Sheet 132

Match Point 87 Left of S.R.W. 197+00

℄ 744.4
744.41
15+62
746.8
℄ 742.3

℄ 744.0
744.03
15+23
746.4
℄ 742.0

℄ 743.4
743.62
14+80
745.7
℄ 741.5

℄ 743.2
743.20
14+36
745.0
℄ 740.8

℄ 742.5
742.49
13+63
743.7
℄ 740.5

℄ 742.0
741.89
13+00
742.0
℄ 739.7

℄ 741.0
740.93
12+00
740.9
℄ 738.5

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
172	2		
		250	4
174	3		
		272	6
167	5		
		269	8
163	5		
		354	11
99	3		
		195	16
68	11		
		294	39
91	10		

740 | 60 | 40 | 20 | 0 | 20 | 40 | 60 | 80 | 100

Ramp "A" X-Sections - Sta. 12+00 to Sta. 15+62

SEC NO DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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SEEDING

END WIDTH	SY
90	545
162	215
160	872
154	833
140	600
141	Sta 15+62

Match to Ramp "B" Sta. 18+60 @ 105' Lt.
Sta. 18+00 @ 300' Lt.

Match to Ramp "B" Sta. 18+60 @ 105' Lt.
FF-71' Sta 492+00 @ 300' Lt.

Match Line - See Sheet No. 164

Match Line - See Sheet No. 164

Match Line - See Sheet No. 164

Note: Ramp "C" Begins @ "A" Sta 16+72.79

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	361	0		
			486	0
	329	0		
			146	0
	329	0		
			520	0
	233	0		
			421	0
	222	0		
			277	1
Sta 15+62	172	2		

Ramp "A" X-Sections - Sta. 16+00 to Sta. 17+50

SEEDING	
END WIDTH	SQ. YDS.
74	439
84	472
86	492
91	519
96	

STATE	DISTRICT	
2	OHIO	

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FRANKLIN COUNTY FRA-200-8.84

END AREA		VOLUME	
CUT	FILL	CUT	FILL
193	0		
		449	0
292	0		
		378	0
116	0		
		291	0
198	0		
		518	0
361	0		

Ref. Only

Match Line - See Sheet No. 164

Note: P.G. Crosses Pavement @ "A" Sta. 19+22.79

750

745.63
19+50
749.1

E. 746.4

E. 742.3

747.83
19+00
749.6

E. 745.8

E. 744.0

747.19
18+50
749.5

E. 745.0

746.69
18+00
749.4

E. 744.5

Sta. 17+50

Ramp "A" X-Sections - Sta. 18+00 to Sta. 19+50

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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SEEDING

LIME LBS/1000 SQ FT	FERTILIZER LBS/1000 SQ FT
52	369
81	436
70	397
67	392
74	

Match Line See Sheet No. 183

Special Ditch

E 749.2

Ref. Only

Std. No. 5 CB
Sta. 21+25
IE 749.0
Outlet 15"-742.05

T52.15
2.1+50
T51.4

Match Line See Sheet 187

Special Ditch

E. 748.5

T51.49
2.1+00
T51.8

Ref. Only

Match Line See Sheet No. 183

Special Ditch

E. 748.0

T50.53
1.9+50
T50.2

Ref. Only

Match Line See Sheet No. 183

Match to Ramp B' Sta 16+05 @ 35' Lt.

E. 747.5

749.37
1.9+00
T49.57

Ref. Only

Sta. 19+50

Sta. 19+50

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
12	144		
		168	134
169	1		
		302	7
157	7		
		225	9
86	3		
		258	3
193	0		

Ramp "A" X-Sections Sta. 20+00 to Sta. 21+50

SHEET NO.	STATE	PROJECT	
2	OHIO		

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SEEDING END WIDTH	SEEDING SQ YDS
–	–
178	1006
184	1047
193	897
130	531
91	314
52	Sta. 21+50

For Earthwork Computation take Sta. 24+09 as Full Section

Bridge No. Fra. 200-0806

Match to S.R. 200 Sta. 375+00 @ 55' Lt

Special Ditch 4:1

E 750.0

75100
24+00
750.1

Sta. 24+09

Match to Ramp "C" Sta. 7+60 @ 81' Lt
S.R. 200 Sta. 373+00 @ 230' Lt

Match Line - See Sheet No. 32

Special Ditch 4:1

E 749.8

75025
23+50
750.1

Match Line - See Sheet No. 167

Match to Ramp "B" Sta. 13+50 @ 65' Lt
S.R. 200 Sta. 376+00 @ 212' Lt

Special Ditch 4:1

E 749.65

75033
23+00
751.4

Match Line - See Sheet No. 162

Special Ditch 4:1

E 749.5

75037
22+50
752.6

Future

Match Line - See Sheet No. 167

Match to Ramp "A" Sta. 13+50 @ 28' Lt

Special Ditch 4:1

E 749.3

75341
22+00
750.7

Ref Only

Match Line - See Sheet No. 167

Ref Only

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6	377		
		2	126
6	377		
		15	698
10	377		
		23	645
15	320		
		31	500
18	220		
		24	417
8	230		
		19	346
Sta. 21+50	12	144	

Ramp "A" X-Sections - Sta. 22+00 to Sta. 24+00

SHEET NO.	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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SEEDING

LAND WIDTH	SQ. YDS.
169	904
178	981
175	961
167	938
135	839
169	845

END AREA		VOLUME	
CUT	FILL	CUT	FILL
401	0		
		691	0
345	0		
		654	0
361	0		
		524	0
205	0		
		237	28
51	30		
		54	161
7	144		
		6	372
0	258		
		0	20
0	258		
		0	0

℄ 749.02
℄ 751.45
℄ 749.98
℄ 752.41
℄ 750.94
℄ 753.37
℄ 751.90
℄ 754.33
℄ 752.86
℄ 753.0
℄ Sta 27+29

Match Line - See Sheet No. 172

Match to Ramp "D" Sta 23+36 @ 43°Lt

Match Line See Sheet No. 171

Match Line See Sheet No. 171

Match Line See Sheet No. 171

Match to Ramp "D" Sta 20+75 @ 152°Lt
SE 200 Sta 373+00 @ 212°Rt

Match to SE 200 Sta 375+00 @ 213°Rt

Match to SE 200 Sta 375+00 @ 166°Rt

For Earthwork Computation take Sta 27+29 Full Section

Bridge No. Fra 200-0806

Ramp "A" X-Sections - Sta. 27+50 to Sta. 30+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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END AREA VOLUME			
CUT	FILL	CUT	FILL
		902	271
		401	1938
		573	1657
		644	1514
		783	1321
		1127	1187

Match Line - See Sheet No. 173

Match Line - See Sheet No. 173

Match Line - See Sheet No. 173

Match Line - See Sheet No. 172

Match to Ramp "D" Sta. 25+50 @ 35° Lt.

Match Line - See Sheet No. 172

Match Line - See Sheet No. 172

Sta. 30+50

Sta. 30+50

6" Oil Line-Ashland Pipe Line Co.

6" Oil Line-Ashland Pipe Line Co.

6" Oil Line-Ashland Pipe Line Co.

6" Oil Line-Ashland Pipe Line Co.

6" Oil Line-Ashland Pipe Line Co.

SECTIONS AND AREAS	
CUT	FILL
147	828
151	839
151	847
154	878
162	900
162	916
168	936
169	

Ramp "A" X Sections Sta. 31+00 to Sta. 34+00

FED. AID DIVISION	STATE	PROJECT
2	OHIO	

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933

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SEATING

END WIDTH	TO YDS.
171	
	950
171 / 27	
	150
27 / 172	
	981
181	
	919
150	
	764
125	
	719
134	
147	781

Sta 37+50

Sta. 37+00

Sta. 36+50

Sta. 36+00

Sta. 35+50

Sta. 35+00

Sta. 34+50

Sta. 34+00

Match to Ramp "D" Sta. 29+60e 135.12 & I-71 Sta. 476+50 @ 180.12

Match Line - See Sheet No. 174

Match Line See Sheet No. 174

Match to Ramp "D"

60.005

1:3 Slope

12'

15" Class A-1 Mod. (Under C.S.16)

Sta. #6 C.B. 18" Inlet 734.60 18" Outlet 734.20

37+83 737.83 754.6

37+50

37+00 738.2 759.0

18" Pipe

15" Class A-1

37+45 8 Lt. Std. No. 1 M.H. 18" Inlet 730.94 15" North 733.30 15" South 733.30 18" Outlet 730.00

Median

50.005

739.73 36+50 755.2

740.71 36+00 754.2

36+30 C.B. 16 Rt No. 5 Grate 739.60 18" Inlet 732.52 18" Outlet 732.50

106.6' 60 W.I.'s @ 734.39

18" C.I. A-1 @ .008 Fl/Ft.

36+15 16' Lt. No. 5 C.B. Grate 738.0 18" 734.0 18" 733.0

741.67 35+50 755.4

739.42

742.63 35+00 755.4

740.38

743.59 34+50 756.6

751.34

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Sta. 37+50	1635	214		
			3460	198
Sta. 37+00	2102	0		
			3265	0
Sta. 36+50	1424	0		
			2551	0
Sta. 36+00	1381	0		
			2517	0
Sta. 35+50	1387	0		
			2462	0
Sta. 35+00	1272	0		
			2356	0
Sta. 34+50	1272	0		
			2277	0
Sta. 34+00	1187	0		

Ramp "A" X-Sections - Sta. 34+50 to Sta. 37+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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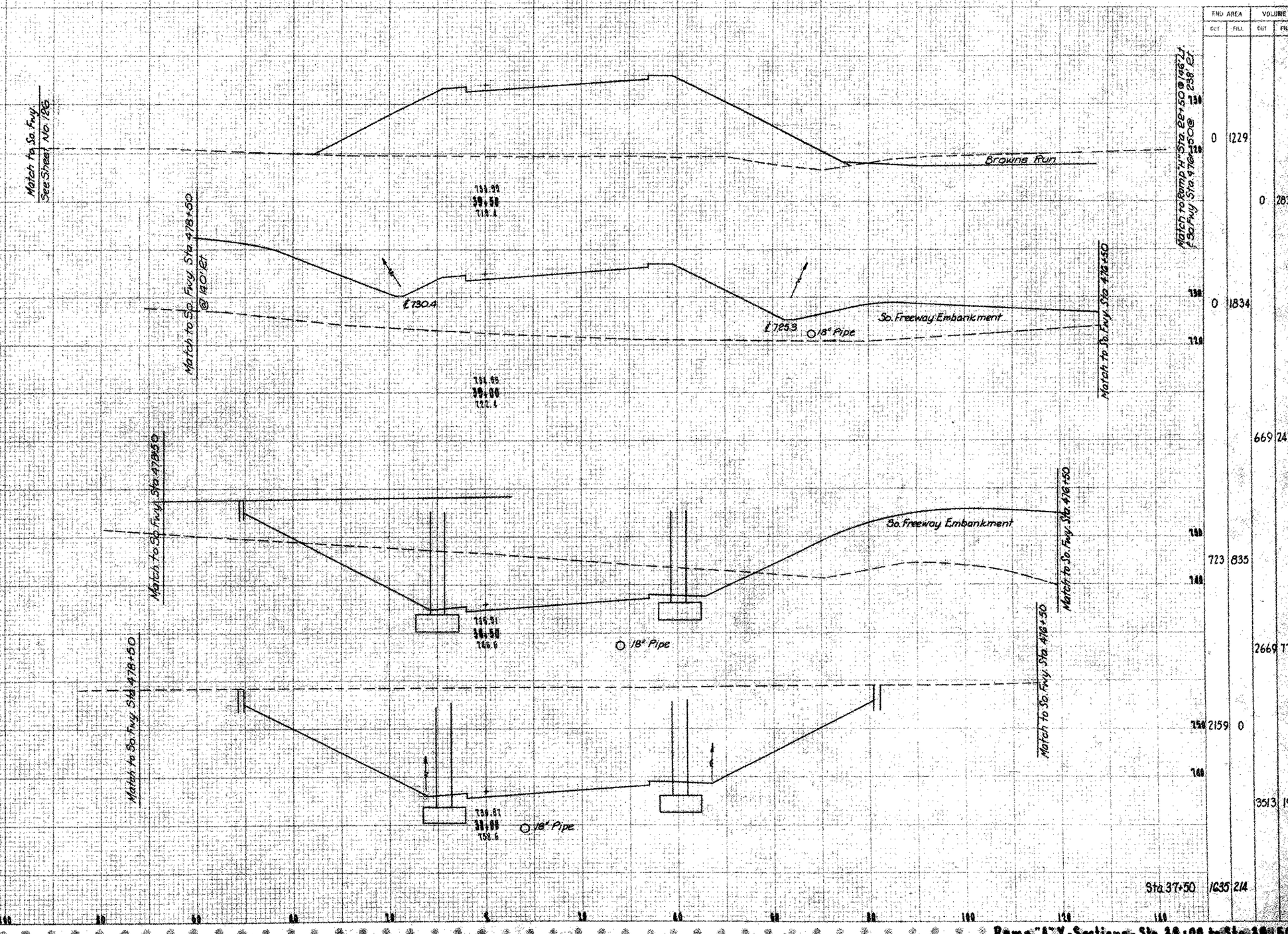
FRANKLIN COUNTY FRA-280-8.04

SECTION				AREA		VOLUME	
END WIDTH	30' TUS			CUT	FILL	CUT	FILL
207				0	1229		
	1014					0	2836
158				0	1834		
714						669	2471
99							
22	122			723	835		
						2669	773
22							
171				2159	0		
	950					3513	198
171		Sta. 37+50		1635	214		



Ramp "A" X-Sections - Sta. 38+00 to Sta. 30+50

SEEDING
END WIDTH | SQ YDS
150 | 881
167 | 983
187 | 1045
189 | 1100
207

Item E-3 Channel Excavation

End Area Cut	End Area Fill	Volume Cut	Volume Fill
20	0		
		56	0
40	0		
		75	0
41			
		38	0
0	0		

Sta. 39+50

Ramp "G" (East only)
Match Line See Sheet No. 190
℄ 714.6
Item E-3 Channel Excavation
℄ 730.0
Match to Ramp "H" See Sheet No. 196
730.22 41+50 733.8

Match to Sa. Ry. Sta. 419+20 @ 210' Lt. & Ramp "E" Sta. 34+00 @ 120' Lt.
Match Line See Sheet No. 190
℄ 714.8
Item E-3 Channel Excavation
℄ 731.25
Match to Ramp "H" See Sheet No. 196
731.11 41+00 733.2

Match to Sa. Ry. Sta. 419+20 @ 210' Lt.
Match Line See Sheet No. 190
℄ 715.0
Item E-3
℄ 732.5
Match to Ramp "H" See Sheet No. 196
732.07 40+50 734.4

Match to Sa. Ry. Sta. 419+20 @ 210' Lt. & Ramp "E" Sta. 34+00 @ 120' Lt.
℄ 715.2
Item E-3 Channel Excavation
Match to Ramp "H" See Sheet No. 196
732.03 40+00 733.0

End Area Cut	End Area Fill	Volume Cut	Volume Fill
478	412		
		789	845
375	500		
		768	757
454	318		
		420	1128
0	1548		
0	2572		
0	1229		

Sta. 39+50

Ramp "A" X-Sections-Sta. 40+00 to Sta. 41+50

SHEET NO.	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-208-8.04

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SETTING

STA	SQ YDS
203	
	789
81	
506	
101	
056	
128	
172	
150	Sta 41+50

Item E-3 Channel Excavation

End Area		Volume	
Cut	Fill	Cut	Fill
506	0		
		942	0
511	0		
		1119	0
698	0		
		802	0
168	0		
20	0		

Match Line - See Sheet No. 189

6" Oil Line - Ashland Pipe Line Co.

℄ 718.0

18" Cl. F-1
2-15°-30° CMP Bends

℄ 713.1

Std. HW-E Endwall
Dumped Rock Channel Protection

Match to Ramp G Sta. 36+07.88 Lt.

℄ 713.6

Item E-3 Channel Excavation

719.05
43+50
738.4

S=0.005 Ft./Ft.

15" Cl. A-1 M6.6(a) or 6.8(a)

Ramp "H"
Sta. 43+45.00 Rt.
Std. #5 C.B.
℄ 725.75
℄ Outlet 723.75

℄ 728.6

Match to Ramp "H" Sta. 26+00.00 @ 29° Lt.

℄ 727.0

Ramp "H" Ref. Only

719.43
43+00
738.0

Item E-3 Channel Excavation

Match Line - See Sheet No. 189

℄ 713.6

Match Line - See Sheet No. 196

Ramp "H" Ref. Only

℄ 728.0

719.38
43+50
738.0

Item E-3 Channel Excavation

Match Line - See Sheet No. 189

℄ 714.2

Match Line - See Sheet No. 196

Ramp "H" Ref. Only

℄ 728.75

719.83
44+00
738.2

Item E-3 Channel Excavation

Match Line - See Sheet No. 189

℄ 714.5

END AREA		VOLUME	
CUT	FILL	CUT	FILL
2180	0		
		3106	0
1169	0		
		1927	0
911	0		
		1734	74
902	80		
		1334	456
478			

Ramp "A" X-Sections Sta. 42+00 to Sta. 46+50

FED. AID DIVISION	STATE		
2	OHIO		

FRANKLIN COUNTY FAS-290-8.06

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333

SECTIONS

END WIDTH	SQ. YDS.
237	1295
229	1299
217	1097
178	947
163	1017

Item E-3
Channel Excavation

	End Area Volume			
	Cut	Fill	Cut	Fill
	244	0		
			681	0
	491	0		
			465	0
	12	0		
			61	0
	54	0		
			268	0
	235	0		
			686	0
Sta 43+50	506	0		

Match to Ramp G Sta 34+00 @ 155' Lt
Sta 200 sta 38+50 @ 295' Rt

Match Line - See Sheet No. 188

Match Line See Sheet No. 188

Match Line See Sheet No. 189

Item E-3
Channel Excavation

℄ 710.2
℄ 724.8
℄ 722.48
℄ 710.8
℄ 725.0
℄ 722.65
℄ 711.3
℄ 725.6
℄ 722.82
℄ 711.9
℄ 725.8
℄ 726.7
℄ 723.0
℄ 712.6
℄ 726.0
℄ 726.0
℄ 723.5

66+00
65+50
65+00
64+50
64+00
Sta 43+50

6" Oil Line - Ashland Pipe Line Co.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
1314	0		
			30
2141	32		
		4454	76
2345	50		
		4300	95
2299	33		
		4336	77
2384	30		
		4232	28
2186	0		

Ramp "A" X-Sections - Sta. 66+00 to Sta. 64+00

FED. RD. DIV.NO.	STATE	FED.AID PROJ.	
2	OHIO		

FRANKLIN COUNTY FRA-286-8.86

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333

Seeding	
End Width	Sq. Yds.

Item E-3
Channel Excavation

End Area		Volume	
Cut	Fill	Cut	Fill
5	0		
		58	0
58	0		
		74	0
22	0		
		246	0
244	0		

Sta. 47+50

Sta. 47+00

Sta. 46+50

Sta. 46+00

End Area		Volume	
Cut	Fill	Cut	Fill
		350	437
		1311	415
		1065	11
		2416	23
		1544	14
		2647	13
		1314	

220

Ditch from S.R. 200 - ℄ 710.5

Match Line - See Sheet No. 41

Item E-3

℄ 708.5

℄ 721.95

729.01
47+50
719.2

1258

Match Line - See Sheet No. 41

Item E-3

233

℄ 709.1

℄ 722.12

115.99
47+00
728.4

1319

Item E-3

℄ 709.7

℄ 722.30

725.77
46+50
719.4

242

Match to S.R. 200 Sta. 389+00 @ 280' Rt.

Sta. 46+40
Ditch from S.R. 200
Storm Sewer
℄ 710.8

133

237 Sta. 46+00

Sta. 46+00

Ramp "A" X-Sections - Sta. 46+00 to Sta. 49+50

PROJECT NUMBER	STATE	COUNTY	SHEET NO.	TOTAL SHEETS
2	OHIO			

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333

FRANKLIN COUNTY FRA-280-8.04

Item E-3
Channel
Excavation

End Area Cut	End Area Fill	Volume Cut	Volume Fill
181	0		
		278	0
139	0		
		240	0
120	0		
		237	0
136	0		
		489	
128	0		
5	0	123	0

Match Line See Sheet No. 51

Match Line See Sheet No. 51

Match to S.R. 200 Sheet # 49

Match to S.R. 200 See Sheet No. 49

Sta. 47+50

Sta. 47+50

Item E-3
Channel Excavation

℄ 711.5

722.73
50+50
706.9

℄ 707.1

Item E-3

℄ 711.9

729.11
50+00
708.6

℄ 707.3

Item E-3

℄ 711.1

725.49
49+50
710.8

℄ 707.5

Item E-3

℄ 710.9

723.87
49+00
713.0

℄ 707.6

Item E-3
Channel Excavation

℄ 710.6

724.65
48+00
717.4

℄ 720.5

SECTIONS END AREA	SECTIONS 50 VOL.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
217					
	1214	20	1316		
220				18	2810
	1239	0	1719		
226				0	2869
	1244	10	1380		
222				0	2325
	2422	0	1131		
214				31	3191
	1208	33	592		
220		350		359	952

Ramp "A" X-Sections - Sta. 46+00 to Sta. 50+50

SHEET NO.	STATE	PROJECT	
2	OHIO		

160
333

FRANKLIN COUNTY FRA-200-8.04

SEEDING	
END WIDTH	SQ YDS

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Item E-3
Channel
Excavation

End Area		Volume	
Cut	Fill	Cut	Fill
90	0		
		162	0
85	0		
		228	0
Sta. 50+50	161	0	

Match Lines See Sheet No. 51

℄ 711.9

722.97
51+50
711.7

Item E-3
Channel Excavation

℄ 706.8

℄ 711.7

722.35
51+00
709.5

Item E-3

6:1

℄ 706.9

212	0	1191	
1186	10	2460	
215	0	1466	
1200	18	2576	
217	20	2463	2576

Sta. 50+50

Sta. 50+50

Ramp "A" X-Sections - Sta. 51+00 to Sta. 51+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

161 / 383

FRANKLIN COUNTY FRA-200-8.96

Excavation	22,078	cy
Embankment	1568	cy
Embankment +15%	653	cy

Pavement Elevations Rt. Edge Lt. Edge Ramp "B" Ramp "B"

For Pavement Elevations on "I" C-D Road See Sheet No. 92

Structure № FRA-200-0819

Graphic Grade

300' V.C.

Sta. 11+51.40 Ramp "B" 135' Lt.
Sta. 8+00.00 Ramp "B"

Sta. 11+00.00 Ramp "B" 134.78 Lt.

℄ I-71 Sta. 10+00 Ramp "B" 135' Lt.

12+50 33" Lt.
Std. No. 5 C.B.
E. Grate 731.50
E. 15" Inlet 725.10
E. 21" Inlet 724.47
E. 27" Outlet 724.10

P.V.C. Sta. 11+75

Sta. 11+86.18 Ramp Pavement Width=18'

Sta. 12+50 18'Rt.
Std. No. 5 C.B.
℄ Grate 729.29
℄ Outlet 725.90

P.V.I. Sta 13+25 Elev. 730.56

Sta. 13+86.18 Ramp Pavement Width=16'

Sta 14+00 18'Rt.
Std. No. 5 C.B.
E. Grate 730.63
E. 15" Inlet 728.25
E. 21" Outlet 727.48

P.V.T. Sta. 14+75

Sta 14+75 30'Lt.
Std. No. 5 C.B.
℄ Grate 735.23
E. 15" Inlet 731.00
E. 15" Outlet 730.75

P.V.I. Sta 17+50

P.V.I. Sta. 19+00
Elev. 741.81

+1.08%

+0.88%

-1.51%

+3.00%

For Profile of Pipe See Sheet No 221

Normal Crown

Superelevation Transition from .016 to .083 ft./ft.

℄ 727.92

+39 ℄ 726.0

+61 ℄ 725.83

℄ 728.95

℄ 737.20

℄ 746.00

℄ 748.32

6" Underdrain (Deep) @ 2'-4" ℄

Right Edge Ramp "B" (Profile Grade)

Direction of Traffic

Superelevation @ .083 ft/ft

Superelevation Transition .083 to .016 ft./ft

Sta. 12+75 Sta. 12+85.18 Ramp Pavement Width=16'

Superelevation @ .016 ft/ft

Ramp Pavement Width=16'

Pavement Elevations Rt. Edge Lt. Edge Ramp "B" Ramp "B"

For Pavement Elevations on Left Edge Southbound I-71 See Sheet № 92

Bridge Limits

℄ I-71 Sta. 486+91.25

Graphic Grade

Sta. 23+75

See Sheet № 109 for Structure Data

Structure № FRA-200-0819

℄ I-71 Sta. 489+64.75

Sta. 26+75 Graphic Grade

Sta. 27+00

Right Edge Ramp "B" Profile (Profile Grade)

+0.70%

+0.61%

+65 ℄ 746.72

Pavement Width=18'

Pavement Width=19'

Struct. № FRA-200-Ramp "A" Under I-71 Southbound

I-71 Sta. 478+14.25 42' Lt.

Bridge Limits

I-71 Sta. 476+85.06 42' Lt.

See Sheet No. 108 for Structure Data

Direction of Traffic

Ramp Pavement Width Tapers Uniformly From 29' to Zero
Superelevation @ .016 ft/ft

Sta. 31+06.10 Ramp "B" +66 Lt.
℄ I-71 Sta. 473+52.00

Ramp "B" Profile - Sta. 8+00 to Sta. 37+06.10

FED. ROAD SYSTEM	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-700-5.04

182
333

SEEDING

END WIDTH	SQ. YDS.
200	1100
196	1006
166	872
148	

Match Line - See Sheet No. 150

2:1

℄ 733.64

733.22
14+00
731.72

℄ 730.80

Sta. 14+00 - 18' Rt.
Std. No. 3 C.B.
℄ Grate 730.68
℄ C.B. 727.48

Match to Ramp "A" Sta. 13+00 @ 136' Lt.
Sta. 13+20 Sta. 376+00 @ 212' Lt.

℄ 732.86

732.44
15+00
730.4

℄ 730.02

Match to Sta. 377+00

Ref. Only

Match Line - See Sheet No. 32

℄ 732.44

732.02
15+00
730.4

℄ 729.60

Match to S.E. 200 Sta. 377+00 @ 139' Lt.

Ref. Only

℄ 731.75

℄ 729.54

15" CI. A-1

℄ 726.1

731.96
17+50
730.4

Sta. 12+50 - 33' Lt.
Std. No. 6 C.B.
℄ Grate = 731.50
℄ C.B. 729.10

Sta. 12+50 - 18' Rt.
Std. No. 5C.B.
℄ Grate 729.29
℄ C.B. 726.40

Match to S.E. 200 Sta. 376+00 @ 170' Lt.

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1575	0		
		2757	0
1402	0		
		2514	0
1356	0		
		2632	0
1486	0		

Ramp "B" X-Sections - Sta. 12+50 to Sta. 14+00

FED. AID PROJECT	STATE	PROJECT	SHEET NO.
2	OHIO		169 939

FRANKLIN COUNTY FRA-200-8.04

SEEDING

END WIDTH	SQ YDS
162	
	999
165	
	901
181	
	1089
211	
1142	
200	

Match to Ramp "A" Sta. 20+00 @ 22° Lt.

Match Line (See Sheet No. 149)

Match to Ramp "A" Sta. 21+00 @ 44° Lt.

Sta. 14+75 30' Lt.
Std. No. S.C.B.
℄ Grate 735.98
℄ Inlet 15" ±731.0
℄ Outlet 15" 730.75

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Sta. 14+00	1575	0		
			1404	0
14+50	1306	0		
			2509	0
15+00	794	0		
			1852	0
15+50	1024	0		
			2157	0
16+00				
			2750	0

Ramp "B" X-Sections Sta. 14+50 to Sta. 16+05

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-280-8.84

164
339

SEEDING

END WIDTH	SQ. YDS
180	997
179	920
152	822
144	814
149	778
162	

Match to Ramp "A" Sta. 17+10 @ 300 Lt
Eff. Sta 482+00

Match to Ramp "A" Sta. 17+50 @ 89.5 Lt

Match Line - See Sheet No. 148

Match Line - See Sheet No. 148

Match Line - See Sheet No. 148

℄ 746.41
℄ 743.57
748.99
16+50
748.2

℄ 745.5
℄ 742.31
748.73
16+00
749.4

℄ 743.78
℄ 740.89
745.31
17+50
750.4

℄ 742.23
℄ 739.39
746.81
17+00
750.5

℄ 740.73
℄ 737.89
748.31
16+50
750.5

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
165	0		
		472	0
344	0		
		785	0
503	0		
		1004	0
580	0		
		1141	0
652	0		
		1205	0
794	0		

Sta 16+05

Sta 16+05

Ramp "B" X-Sections - Sta. 16+50 to Sta. 18+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

165
333

Seeding		End Area		Volume	
End Width	Sq. Yds.	Cut	Fill	Cut	Fill
138					
	714	2	16		
119				7	76
	742	5	66		
148				7	143
	850	2	88		
158				2	187
	920	0	113		
173				42	133
	981	45	31		
180				194	29
Sta. 18+50		165	0		

Match to Sta. 19+00 Rt.

Match Line-See Sheet No. 130

Match to Sta. 19+00 Rt. Sta. 19+00 @ 126' Lt.

Match Line-See Sheet No. 130

Match to Sta. 21+00 Rt. Sta. 21+00 @ 132' Lt.

Match Line-See Sheet No. 130

℄ 744.67

19+00

℄ 745.61

19+50

℄ 746.99

19+81

20+00

℄ 747.01

20+50

℄ 747.55

21+00

Sta. 18+50

Ramp "B" X-Sections-Sta. 19+00 to Sta. 21+00

For Pavement Elevations of Edge of Westbound S.R. 200 See Sheet No. 94

Pavement Elevations Rt. Edge Ramp "C" / Lt. Edge Ramp "C"

742.52 / 742.79 — 742.85 / 743.11 — 743.18 / 743.45 — 743.51 / 743.75 — 743.85 / 744.08 — 744.40 / 744.62 — 744.80 — 745.15 — 745.50 — 745.87 — 746.45 — 747.04 — 747.63 — 748.20 — 748.51 — 748.76 — 749.00 — 749.20 — 749.38 — 749.57 — 749.75 — 749.92 — 750.11 — 750.29 — 750.48 — 750.66 — 750.84 — 751.03 — 751.21 — 751.38 / 751.45

Ramp Pavement Width Tapers Uniformly from 25' to Zero

760

750

740

Sta. 17+61.79 Ramp Pavement Width = 14'
Ramp Pavement Width = 25'

Right Edge Ramp "C" (Profile Grade)

Direction of Traffic

Graphic Grade

Future 18" Storm Sewer

Sta. 19+50

Sta. 21+50

Superelevation @ .010 ft/ft Left Edge Raised

Superelevation Transition

Superelevation @ .010 ft/ft Right Edge Raised

Sta. 29+07.92 Ramp "C" = 66' Lt. ℄ S.R. 200 Sta. 350+88.17

7581 — 7582 — 7583 — 7588 — 7609 — 7584 — 7617 — 7578 — 7593 — 7585 — 7578 — 7587 — 7572 — 7564 — 7578 — 7606 — 7578 — 7587 — 7615 — 7620 — 7607 — 7588 — 7584 — 7587 — 7587 — 7586

15 — 16 — 17 — 18 — 19 — 20 — 21 — 22 — 23 — 24 — 25 — 26 — 27 — 28 — 29

For Right Edge of Ramp "A" See Sheet No. 93

Pavement Elevations Rt. Edge Ramp "C" / Lt. Edge Ramp "C"

745.48 — 745.01 — 746.37 — 746.80 — 747.30 — 748.11 — 749.15 — 750.42 — 751.53 — 752.04 — 752.77 — 753.46 — 754.15 — 753.28 — 753.60 — 754.53 — 753.97 — 754.79 — 754.15 — 754.95 — 754.20 — 754.89 — 754.14 — 754.71 — 753.90 — 754.42 — 753.67 — 754.01 — 753.20 — 753.48 — 752.73 — 752.84 — 752.09 — 752.08 — 751.33 — 751.21 — 750.46 — 750.29 — 749.54 — 748.45 — 747.70 — 746.01 — 745.80 — 744.77 — 744.02 — 742.95 — 742.22 — 742.18 — 741.47 — 741.53 — 740.84 — 741.01 — 740.34 — 740.70 — 739.97 — 740.43 — 739.72 — 740.30 — 739.61 — 740.28 — 739.91 — 740.41 — 739.75 — 740.67 — 740.01 — 740.89 — 740.33 — 741.20 — 741.06 — 741.58 — 741.50 — 742.14 — 741.88 — 742.47 — 742.19 — 742.79 — 742.52

Graphic Grade for Right Edge of Ramp "C"

Right Edge Ramp "C" (Profile Grade)

750

740

730

Sta. 0+00 Ramp "C" - Ramp "A" Sta. 10+72.79

℄ 741.48

℄ 739.40 Prop. 6" Cl. I-S 3' to 2'-4" Rt. @ 0.90% (Deep)

Prop. 6" Cl. I-S 2'-4" Rt. @ 2.40% (Deep)

+2.82%

℄ 743.89

P.V.I. Sta. 5+07.46 Elev. 750.99

(Shallow)

Limit of Grading 1:25' below Edges of Ramp Pavement

-3.08%

P.V.C. Sta. 4+72.46

350' V.C.

P.V.T. Sta. 7+72.40

Not a part of this Contract

Direction of Traffic

Sta. 3+50

Sta. 5+00

Sta. 5+65.47 Limit of Paving

Sta. 5+71.74 Limit of Grading

Superelevation Varies (.010 ft./ft. min., .017 ft./ft. max.)

Superelevation Transition from .017 to .047 ft./ft.

Superelevation @ .047 ft./ft.

Sta. 9+82.17 Ramp Pavement Width = 16'

P.V.C. Sta. 9+79.72

P.V.I. Sta. 11+04.72 El. 738.33

Sta. 11+82.17 Ramp Pavement Width = 14'

+1.40%

Future 18" Storm Sewer

250' V.C.

P.V.T. Sta. 12+29.72

Sta. 12+25

Sta. 13+50

Superelev. Transition from .047 to .010 ft./ft.

Superelevation @ .010 ft./ft.

Excavation	158 cy
Embankment	336 cy
Embankment + 15%	386 cy

7513 — 7501 — 7499 — 7496 — 7495 — 7494 — 7501 — 7512 — 7512 — 7516 — 7508 — 7502 — 7511 — 7521 — 7544 — 7546 — 7545 — 7544 — 7546 — 7549 — 7548 — 7550 — 7552 — 7555 — 7556 — 7562 — 7561

0 — 9 — 10 — 11 — 12 — 13 — 14 — 15

Ramp "C" Profile - Sta. 0+00.00 to Sta. 19+87.92

					167 333
2	OHIO				

FRANKLIN COUNTY FRA-200-0.06

End Area		Volume	
Cut	Fill	Cut	Fill
0	56	0	62
0	24	0	27
0	4	0	11
7	0	21	121
16	135	37	215
21	85		

SEEDING

END WIDTH	SS YDS

Match to SR 200 Sta. 37+50 @ 295' Lt.

Match to SR 200 Sta. 37E+00 @ 187' Lt.

Match to SR 200 - Sheet 5I

Match to SR 200 - Sheet 3O

Match to Ramp "H" Sta. 24+00 @ 148' Lt.
S.R. 200 Sta. 37+00 @ 203' Lt.

Match Line - See Sheet No. 150

Match Line - See Sheet No. 150

Match Line - See Sheet No. 150

Match Line - See Sheet No. 150

Match Line - See Sheet No. 149

Begin Future Special Ditch

End Future Special Ditch Sta. 7+37

End Grading Sta. 5+80
End Paving Sta. 5+71.47

Future

Ramp "A" 24' Only

Ramp "H" 28' Only

Ramp "A" 28' Only

SEEDING	
SYM.	LB.
	30
	112
	18
	16
	5
	34
	7
	58
	80
	356
	80
	436
	67

Ramp "C" X-Sections - Sta. 4+87 to Sta. 8+50

Excavation	2,697 cy.
Embankment	28,952 cy.
Embankment + 15%	33,295 cy.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA -100-8.04

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For Pavement Elevations on Right Edge Eastbound S.R.200 and "K" C-D Road See Sheet No. 95 of 96

Pavement Elevations Right Edge Left Edge Ramp "D"

750.67 750.37 750.08 749.87 749.65 749.44 749.22 748.96 748.69 748.43 748.17 747.89 747.57 747.24 746.86 746.48 746.21 745.97 745.67 745.36 745.02 744.67 744.34 744.00 743.63 743.23 742.82 742.17 741.27 740.08 740.43 740.77 741.09 741.29 741.46 742.05

760

750

740

Sta. 0+00 Ramp "D" & S.R.200 Sta. 351+88.17

Graphic Grade for Right Edge Ramp "D"

Right Edge Ramp "D" (Profile Grade)

Not in Contract

Ramp Pavement Width - 18'

Ramp Pavement Width - 16'

Sta. 7+95.27

Sta. 8+95.27

Direction of Traffic

Future 24" Storm Sewer

Sta. 13+00

Superelevation Transition from .015 to .049 ft/ft

Future 39" Storm Sewer

Sta. 14+00

Superelevation @ .049 ft/ft

Sta. 14+60.52 Ramp Pavement Width - 16'

PVC. Sta. 14+50.00

300' V.C.

-1.16%

Superelevation Varies (.015 ft/ft min, .021 ft/ft max.)

762.0 762.9 763.4 763.2 762.6 762.5 762.6 762.0 762.9 762.8 762.5 764.3 765.7 763.1 762.3 760.8 761.7 762.8 764.4 763.2 762.0 762.0 761.9 763.0 764.6 763.8 763.0 762.2 763.1 763.5 762.9

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

741.89 740.99 741.00 741.11 741.30 741.58 741.94 742.39 742.93 743.56 744.28 745.00 745.80 746.64 747.32 748.04 748.84 749.68 750.30 751.10 751.86 752.62 753.40 754.14 754.87 755.64 756.14 756.68 757.17 757.59 757.95 758.37 758.73 759.02 758.82 758.48 758.65 758.76 758.80 758.79 758.72 758.56 758.38 758.16 757.92 757.40 757.00 756.54 756.08 755.62 755.10 754.70 754.24 754.04 753.90 755.42 755.72 755.87

760

750

740

Sta. 15+60.52 Ramp Pavement Width - 16'

300' V.C.

P.V.I. Sta. 17+50

+3.04%

Future 18" Storm Sewer

Right Edge Ramp "D" (Profile Grade)

P.V.I. Sta. 23+00 El. 760.22

400' V.C.

-0.92%

6" Oil Line Ashland Pipe Line Company

P.V.C. Sta. 21+00

P.V.C. Sta. 29+50

300' V.C.

-1.10%

Future 21" Storm Sewer

P.V.I. Sta. 0+00 El. 738.94

Sta. 24+00

Sta. 25+00

Not in Contract

Grading Only

Direction of Traffic

Sta. 26+25

Sta. 27+25

Superelevation Transition from .049 to .074 ft/ft

Sta. 29+50 Limit of Grading

Superelevation @ .074 ft/ft

Superelevation @ .049 ft/ft

762.9 762.1 761.3 761.7 762.1 761.9 761.7 761.3 760.1 758.6 759.5 758.1 758.6 758.6 758.6 758.6 758.6 758.6 758.7 758.6 758.7 758.6 758.8 758.6 758.5 758.8 759.0 758.0 756.9 757.9 761.4

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Ramp "D" Profile - Sta. 0+00 to Sta. 30+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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Pavement Elevations	
Rt. Edge Ramp "D"	Lt. Edge Ramp "D"
753.89	755.07
753.80	754.98
753.76	754.94
753.70	754.87
753.80	755.04
754.00	755.18
754.18	755.36
754.43	755.50
754.73	755.71
755.08	755.97
755.50	756.25
756.38	757.10
757.26	758.04
758.14	758.92
759.02	759.80
759.90	760.68
760.78	761.56
761.61	762.20
762.30	762.70
762.87	763.25
763.37	763.76
763.64	764.20
764.19	
764.63	
764.92	
765.72	
765.51	
765.80	
766.09	
766.39	
766.68	
767.03	
767.38	
767.69	
768.00	
768.30	

For Pavement Elevations on Left Edge Southbound I-71 See Sheet № 36.

300' V.C.

P.V.I. Sta. 3+00 El. 752.56

P.V.T. Sta. 32+50

Right Edge Ramp "D" (Profile Grade)

+1.76%

-0.92%

Limit of Grading 1.25 Below Edges of Ramp Pavement

Sta. 35+75

Sta. 36+30.85 Ramp Pavement Width=16'

Sta. 37+30.85 Ramp Pavement Width=16'

Limit of Grading

Sta. 38+30.85 Ramp Pavement Width=14'

Graphic Grade for Right Edge Ramp "D"

Superelevation @ .074'/ft | Superelevation Transition from .074 to .049'/ft | Superelevation @ .049'/ft | Superelev. Transition from .049 to .025'/ft | Superelevation @ .025'/ft | Superelevation Transition from .025 to .021'/ft | Superelevation @ .021'/ft | Superelevation Transition from 0.021'/ft to 0.016'/ft | Superelevation @ 0.016'/ft

Sta. 31+50 | Sta. 32+50 | Sta. 35+50 | Sta. 36+50 | Sta. 38+00 | Sta. 39+00 | Sta. 42+50 | Sta. 43+50

24" Culvert Class A-1

108" C.M.P.

Direction of Traffic

Grading Only | Not in Contract

Ramp Pavement Width Tapers Uniformly from 25' at Sta. 38+30.85 to Zero at Sta. 50+31.50

For Elevations from Sta. 45+00 to Sta. 50+31.50 See Sheet № 106 & 107

Sta. 50+31.50 Ramp "D" - 66' Left
℄ I-71 Sta. 455+50.67

760
750
740
730
720

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
734.8	732.3	728.9	726.1	723.8	722.0	720.7	719.7	719.5	720.4	721.9	725.3	728.3	735.9	742.8	742.0	742.9	743.5	743.9	744.1	744.1	744.0	744.5	745.0	745.2	745.7	746.1	746.3	746.9	747.5	747.7

Ramp "D" Profile - Sta. 30+00 to Sta. 45+00

SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-200-8.86

SCREENING

END WIDEN	TOP SOIL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Match Line - See Sheet No. 60

Match Line - See Sheet No. 60

Match Line - See Sheet No. 60

Match to S.R. 200 Sta. 371+00 @ 159° 27'

Match Line - See Sheet No. 58

Match Line - See Sheet No. 58

Match to S.R. 200 Sta. 369+50 @ 158° 27'

750	751.53	750
	20+47	
	750.4	
750	751.10	750
	20+00	
	749.5	
750	749.55	750
	19+62	
	749.6	
750	749.06	750
	19+00	
	750.7	
750	748.54	750
	18+50	
	751.3	
750	749.02	750
	18+00	
	750.7	
750	749.50	750
	17+50	
	751.9	

Ramp "D" X-Sections-Sta. 17+50 to Sta. 20+47

SHEET NO.	STATE	PROJECT	
2	OHIO		

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535

FRANKLIN COUNTY FRA-200-8.04

SEEDING	
END WIDTH	SQ YDS

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Match to Ramp A Sta. 30+00 @ 85°

Match Line - See Sheet No. 181

Match Line - See Sheet No. 181

Match Line - See Sheet No. 181

Match to Ramp A Sta. 27+50 @ 150°

S.R. 200 (S) Sta. 273+00 @ 212°

Match Line See Sheet No. 181

3:1

2:1

3:1

156.55	13+96
156.4	
152.00	11+60
156.1	
151.13	12+13
156.1	
155.9	21+65
156.1	
155.00	21+30
156.0	
151.38	20+75
156.3	

Ramp "D" X-Sections - Sta. 10+75 to Sta. 28+30

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY FRA-200-8.04

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
81	477	92	8	213	10
81	510	125	2	183	17
80	451	48	14	65	61
73	324	18	48	13	36
73	0	0	0		
0					

Match Line-See Sheet No. 152

Match Line-See Sheet No. 152

Match Line-See Sheet No. 151

Match Line-See Point "A"

℄ 755.39

755.43
24+03
755.6

℄ 755.88

755.92
23+50
755.7

℄ 756.40

755.44
24+93
755.5

6" Oil Line-Ashland Pipe Line Co.

℄ 758.71

758.75
24+66
758.2

6" Oil Line-Ashland Pipe Line Co.

BEGIN GRADING STA 24+00

756.19
23+89
756.0

Sta. 24+00

760
750

100 110 100 50 50 40 10 5 5 10 40 50 80 100 120

Ramp "D" X-Sections - Sta. 23+89 to Sta. 26+03

FED. FUND. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.84

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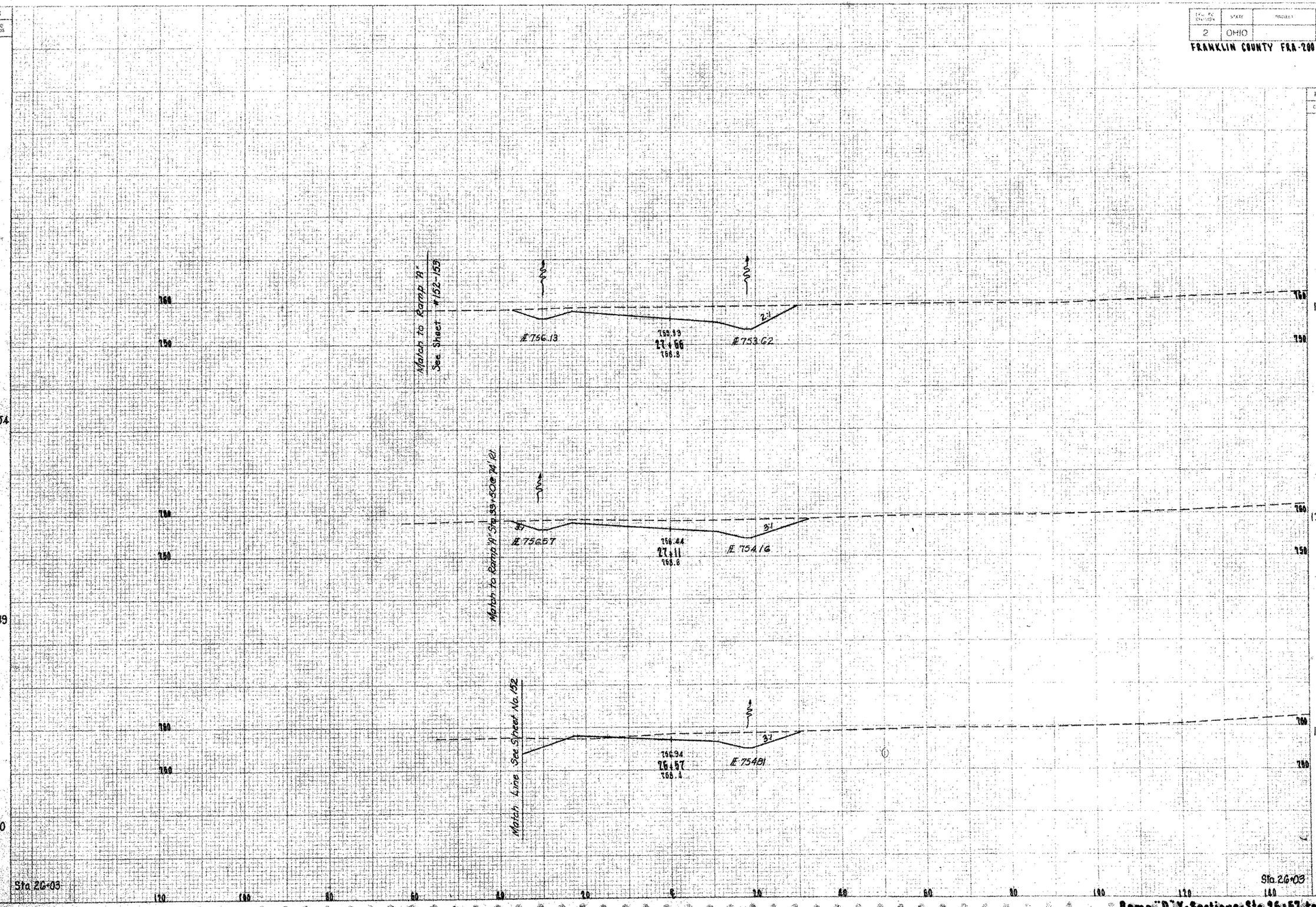
333

SEEDING		END AREA		VOLUME	
END WIDTH	LB. YDS.	CUT	FILL	CUT	FILL
120	654	168	0	313	0
94	549	139	0	241	7
89	510	102	7	194	15
81		92	8		



Ramp "D" X-Sections-Sta. 26+57 to Sta. 27+66

SEEDING	
END WIDTH	SQ YDS
195	220
175	907
160	503
142	801
120	

REF. NO. OF SHTS.	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200-8.04

Match to Ramp "A" @ 130' Rt. Sta. 36+00 ℄ to I-71 @ 180' Left Sta. 16+50

℄ 751.5

754.15
29+60
750.6

3:1 2:1

℄ 744.13

Begin Special Ditch

Match Line See Sheet #159

℄ 754.90

754.70
29+00
756.6

4:1 2:1

℄ 751.50

Match Line See Sheet #159

℄ 755.35

755.15
28+51
756.4

4:1 2:1

℄ 752.50

Match Line See Sheet #159

℄ 755.03

755.83
28+21
758.8

2:1

℄ 753.12

Sta 27+66

Sta 27+66

END AREA		VOLUME	
CUT	FILL	CUT	FILL
62	243		
		247	27
160	0		
		323	0
196	0		
		219	0
198	0		
		373	0
168	0		

Ramp "D" X-Sections - Sta. 28+21 to Sta. 29+50

SHEET NO.	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-280-8.04

SEEDING

END WIDTH	SQ. YDS.
193	
	1056
188	
	1042
187	
	1031
184	
	1014
181	
	831
193	

Match Line See Sheet #124

151.0

136.5

751.73
32+00
726.1

℄ 725.2

Match Line See Sheet #124

128' 24" Class A-1 Pipe @ .005 ft.

℄ 731.42

Std # 5 C.B.
℄ Outlet 732.05
℄ Grate 750.0
Sta. 31+50
77 Lt.

H.W.A. End Wall

℄ 727.3

Match Line See Sheet #124

750.18
31+50
726.9

℄ 750.75

121

729.0

Match Line See Sheet #128

750.56
31+00
732.6

℄ 751.5

730.0

475+00

Match Line See Sheet #128

750.78
30+50
734.8

℄ 752.0

21

℄ 734.0

750.99
30+00
737.4

Sta. 29+50

Sta. 29+50

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
25	2745		
		51	4992
30	2647		
		40	4497
13	2210		
		33	4165
23	2288		
		52	3530
34	1525		
		71	1309
62	248		

Ramp "D" X-Sections - Sta. 30+00 to Sta. 32+00

SHEET	DIST	COUNTY	
2	0HIO		

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FRANKLIN COUNTY FRA-270-8.68

SEEDING	
ENG WIDTH	SQ YDS.
189	
1053	
190	
1064	
193	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		12	2644
		27	4975
		17	2729
		39	5060
		2.5	2745

Match to Sta 472+90 @ 10 Left M.F.

E 759.8

472+90

33+00

E 723.1

156.38
33+00
725.0

Match Line See Sheet 2

124

413+50

E 752.3

413+50

E 724.7

156.50
32+50
729.2

Sta 32+00

Sta 32+00

Ramp "D" X-Sections-Sta. 32+50 to Sta. 33+00

Excavation	26,897	cy
Embankment	114	cy
Embankment +15%	131	cy

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

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For Pavement Elevations on Left Edge Westbound S.R. 200 and I"C-D Road See Sheet Nos. 97 & 98

Pavement Elevations Rt. Edge Lt. Edge Ramp E Ramp E

Graphic Grade

Right Edge Ramp E (Profile Grade)

Sta. 2+84.33 Ramp E = 46.44 Lt. ℄ S.R. 200 Sta. 412+19.52

℄ 703.45

6" Underdrain (Deep) @ 8' Rt.

Superelevation @ .016 ft./ft.

Sta. 5+00

Superelevation Transition from .016 to .021 ft./ft.

Sta. 7+25

15" Class A-1

+02 ℄ 708.59

+09 .36' Rt. 8" Outlet ℄ 703.2

+28 ℄ 710.86

Direction of Traffic

Superelevation @ .021 ft./ft.

36" R.C.P.

Sta. 12+75

Sta. 13+75

18" CMP

Superelevation Transition from .021 to .016 ft./ft.

6" Underdrain (Shallow) @ 8' Rt.

15" Cl. A-1

℄ 715.58

+03 ℄ 716.23

Sta. 16+00

Superelevation @ .016 ft./ft.

Sta. 18+00

Superelevation Transition from .016 to .049 ft./ft.

See Note Above

Graphic Grade

300' V.C.

Sta. 20+25 P.V.C.

Sta. 20+84.33 Ramp Pavement Width = 24' Ramp Pavement Width = 24'

Sta. 21+48.32 Ramp Pavement Width = 24'

Sta. 23+25 P.V.T.

+0.10%

+3.00%

P.V.I. Sta. 21+75 Elev. 721.30

℄ 719.67

Right Edge Ramp E (Profile Grade)

P.V.I. Sta. 28+58.44 Elev. 741.80

℄ 735.27

℄ 734.79

-0.20%

Sta. 26+58.44 P.V.C. El. 735.80

400' V.C.

Sta. 30+30.44 P.V.T. El. 741.40

24' CIA-1

+26 ℄ 715.50

6" Underdrains (Deep)

℄ 715.60

+05 .94' Rt. 6" Outlet ℄ 715.0

Superelevation @ .049 ft./ft.

Sta. 21+25

Superelevation Transition from .049 to .070 ft./ft.

Sta. 22+25

Direction of Traffic

Superelevation @ .070 ft./ft.

Sta. 30+25

Superelevation Transition from .070 to .082 ft./ft.

Sta. 31+75

Superelevation @ .082 ft./ft.

Ramp "E" Profile - Sta. 2+84.33 TO Sta. 33+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY FRA-200-0.04

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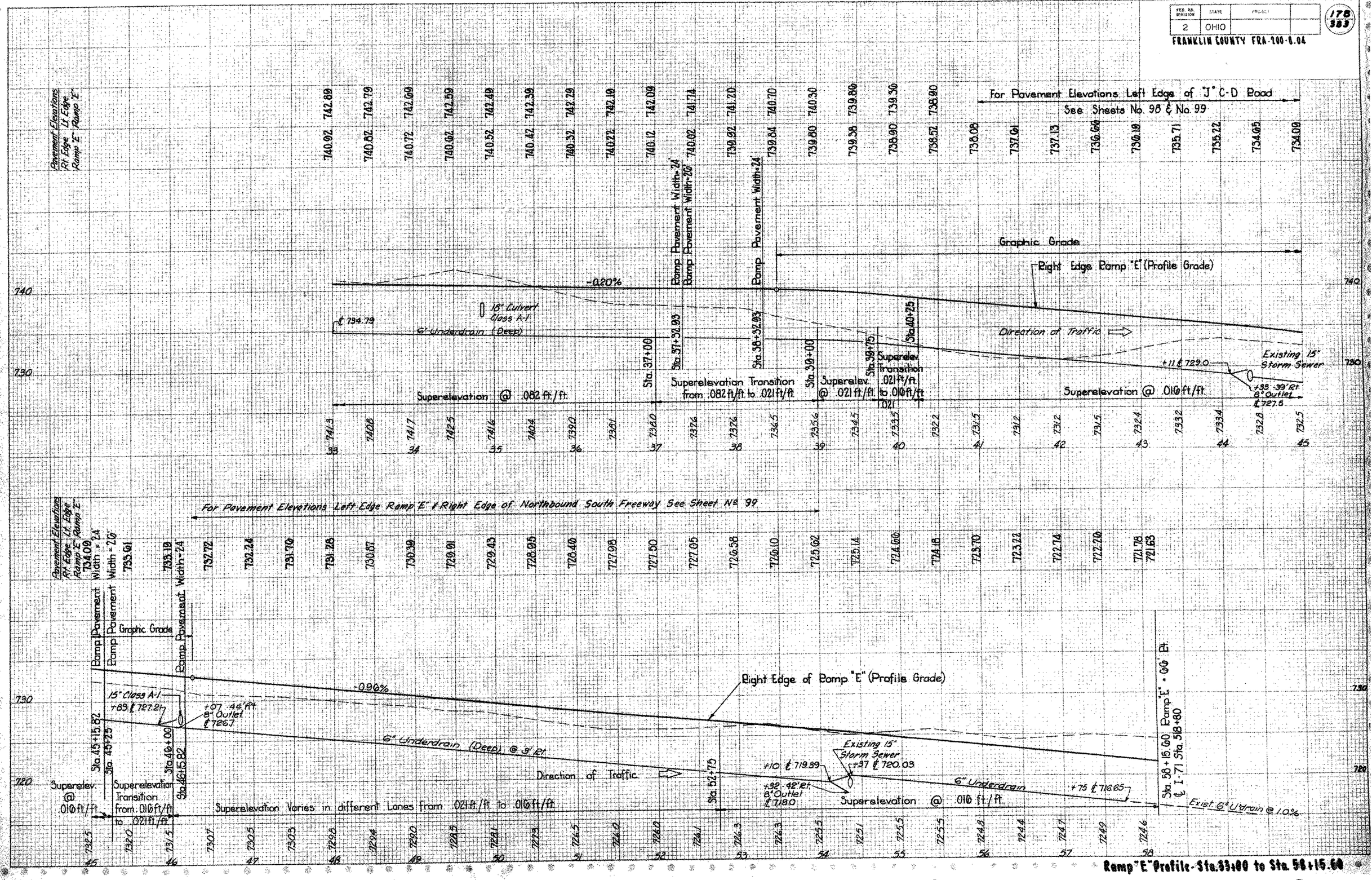
383



Ramp "E" Profile - Sta. 33+00 to Sta. 58+15.60

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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Seeding End Width	Seeding Sq. Yds.			End Area Cut	End Area Fill	Volume Cut	Volume Fill
133		150					
		140					
				1148	0		
	716						
						2297	0
124		150					
		140					
				1333	0		
						5346	0
102		150					
		140					
111				1554	0		
						5920	0
		150					
155		140					
				1643	0		

Match Line See Sheet No. 48

℄ 738.4

738.55
25+50
144.8

℄ 730.0

Match Line See Sheet No. 49

℄ 731.9

731.05
25+00
144.4

℄ 728.5

Match Line See Sheet No. 50

℄ 728.9

728.05
24+00
143.1

℄ 725.5

Match to S.R. 256 Sta. 392+00 @ 164' Lt.

℄ 725.8

725.08
23+00
141.9

℄ 722.5

Ramp "E" X-Sections - Sta. 23+00 To Sta. 25+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-200-8.04

Station	Subgrade Elev.	Cut	Fill
25+50	748		
	740		
	730		
	720		
26	710		
	700		
	690		
26+50	680		
	670		
	660		
27	650		
	640		
	630		
27+50	620		
	610		
	600		
28	590		
	580		
	570		
28+50	560		
	550		
	540		
29	530		
	520		
	510		
29+50	500		
	490		
	480		
30	470		
	460		
	450		

Station	End Area Cut	End Area Fill	Volume Cut	Volume Fill
25+50				
		750		
		740	607	0
26				
			1228	0
		750		
		740	719	0
26+50				
			1483	0
		750		
		740	882	0
27				
			1741	0
		750		
		740	989	0
27+50				
			1987	0
28				
28+50				
29				
29+50				
30				

Sta. 25+50 1148 0

Ramp "E" X-Sections - Sta. 26+00 to Sta. 27+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FLA-700-8.04

SEEDING
AND AREA WIDTH LENGTH

End G. Rail
Sta 29+75

Match Line See Sheet #186

Ramp "E"

4:1

℄ 738.0

Special Ditch

741.5
29+50
144.8

℄ 738.6

Match Line See Sheet #186

Ramp "F"

℄ 738.2

740.72
29+00
144.6

Match Point
Sta 26+42
Left Ramp "F"

Match Line See Sheet #186

Ramp "F"

℄ 737.4

740.09
28+50
144.1

Ramp "F"
Left Ditch

℄ 736.7

739.65
28+00
145.8

Begin
E. Rail
Sta 27+75

Sta 27+50

67	140	140	33	0	
	333			700	0
60	140	140	383	0	
	339			820	0
66	140	140	503	0	
	406			1045	0
80	140	140	625	0	
	489			1141	0
98	Sta 27+50	Sta 27+50	607	0	

Ramp "E" X-Sections-Sta. 28+00 To Sta. 29+50

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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SEEDING	
END RIGHT	SO TOX
89	
	592
124	
869	
81	
438	
78	
997	
67	

Match Line - See Sheet No. 134

℄ 742.4
241.22
51.50
249.8
℄ 736.45

Match Point
94.5 Left Ramp "F"
Sta. 23+82

℄ 742.6
741.32
51.80
244.1
℄ 738.6

Match Point
61' Left Ramp "F" Sta. 24+41

℄ 742.6
741.48
50+50
244.6
℄ 738.6

Ramp "F" Gore Drain

Match Line See Sheet No. 135

℄ 742.2
741.38
50+50
244.9
℄ 738.8

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
140	229	0		
			404	0
140	207	0		
			413	0
140	239	0		
			513	0
140	315	0		
			637	0
Sta. 29+50	99	0		

Sta. 29+50

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

Ramp "E" X-Sections - Sta. 30+00 To Sta. 31+90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

183
333

SEEDING
CWB LAREA
WIDTH IN FEET

Station	Offset	Left	Right	Match to L-71	See Sheet No. 134
31+50	140	7.3			
	120				
	100				
	80				
	60				
	40				
	20				
	PC				
	20				
	40				
	60				
	80				
	100				
	120				
32+00	140	9.0	5.17	Match to L-71	See Sheet No. 134
	120				
	100				
	80				
	60				
	40				
	20				
	PC				
	20				
	40				
	60				
	80				
	100				
	120				
32+50	140	9.6	5.50	Match to L-71	See Sheet No. 134
	120				
	100				
	80				
	60				
	40				
	20				
	PC				
	20				
	40				
	60				
	80				
	100				
	120				
33+00	140	10.2	5.31	Match to L-71	See Sheet No. 134
	120				
	100				
	80				
	60				
	40				
	20				
	PC				
	20				
	40				
	60				
	80				
	100				
	120				
33+50	140	8.3	4.81	Match to L-71	See Sheet No. 134
	120				
	100				
	80				
	60				
	40				
	20				
	PC				
	20				
	40				
	60				
	80				
	100				
	120				
34+00	140	7.3	4.33	Match to L-71	See Sheet No. 134
	120				
	100				
	80				
	60				
	40				
	20				
	PC				
	20				
	40				
	60				
	80				
	100				
	120				

℄ 739.25 — ℄ 737.7 — 740 — 34+00 — 741.7

℄ 740.0 — ℄ 737.85 — 740.82 — 33+50 — 741.6

℄ 740.2 — ℄ 738.0 — 740.92 — 33+00 — 741.9

℄ 741.6 — ℄ 738.16 — 741.02 — 32+50 — 742.2

℄ 742.0 — ℄ 738.3 — 741.12 — 32+00 — 743.5

Station	End Area Cut	End Area Fill	Volume Cut	Volume Fill
31+50	134	4		
			213	30
32+00	75	27		
			139	50
32+50	75	26		
			221	26
33+00	164	2		
			328	5
33+50	189	4		
			387	4
34+00	Sta. 31+50	299	0	

Ramp "E" X-Sections - Sta. 31+00 To Sta. 34+00

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.08

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333

Excavation	21,842 cy.
Embankment	61 cy.
Embankment +15%	70 cy.

For Pavement Elevations on "J" C-D Road See Sheet No. 100

For Pavement Elevations on "I" C-D Road See Sheet No. 100

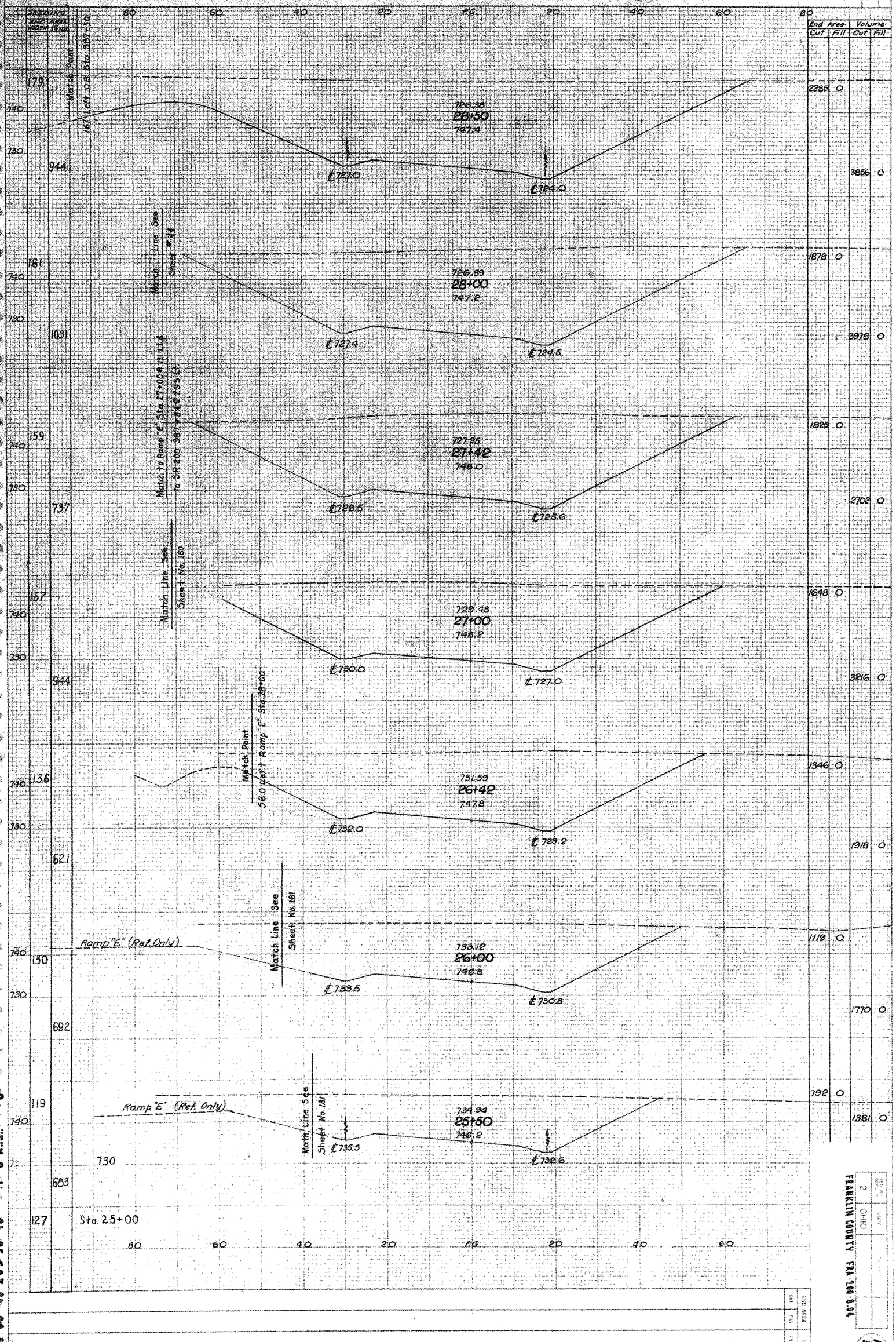
| Pavement Elevations | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

185
335

Ramp "F" X-Sections - Sta. 22+00 To Sta. 25+00



FRANKLIN COUNTY FRA-108-0.04

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333

Ramp "E" X-Sections Sta. 25+50 to Sta. 28+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-0.84

187
333

Excavation	1,303 cy
Embankment	44,406 cy
Embankment +15%	51,067 cy

For Pavement Elevations on "J" C-D Road See Sheet No 101

For Pavement Elevations on "K" C-D Road See Sheet No 101

| | | |

Fed. Rd. Division	State	Project	
2	OHIO		

168
333

FRANKLIN COUNTY FRA-100-8.04

Seeding	
End Width	Sq. Yds.
178	
189	
178	
192	
172	
914	
151	
831	
142	

End Area		Volume	
Cut	Fill	Cut	Fill
19	1315		
			2645
9	1341		
			2036
10	858		
			811
21	18		
			17
395	0		

Match Line See Sheet No. 157

Match to 3E 200.5 on 307+50 @ 33.4°Rt.

Match to 3E 200.3 on 307+00 @ 15°Rt.

Match to 3E 200.3 on 306+50 @ 30°Rt.

(ref. only)

Ramp "C" X-Sections - Sta 32+50 to Sta 34+50

2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

189
339

SEEDING

END WIDTH	SQ. YDS.
191	
905	
188	
1156	
177	
933	
159	
930	
178	

Sta. 34+50

Match Line See Sheet No. 156

6" Oil Line- Ashland Pipe Line Co.

℄ 716.25

744.05
35+50
715.1

Match Line See Sheet No. 157

6" Oil Line- Ashland Pipe Line Co.

℄ 716.0

742.89
35+07
714.0

Match Vly Ramp "A" See Sheet No. 157

℄ 715.75

740.55
35+50
715.4

Match Line See Sheet No. 157

S=0.0106 ft/ft

18"Ø x 18" Cl. A-1 M 86.6 (d)

℄ 714.15

℄ 715.5

74.6'

32.0'

18" Dumped Rock Channel Protection

Std. H.W.-A Endwall

738.77
33+00
714.3

Std. H.W.-A Endwall

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
46	2136		
		334	3363
373	2075		
		401	4574
		7	2258
		7	4079
		1	2147
		13	339

Ramp "G" X-Sections - Sta. 35+00 to Sta. 36+50

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY FRA-200-8.04

SEEDING	
END WIDTH	SQ. YDS.
200	236
	121
121	201
	178
191	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	2380		
		12	4830
7	2836		
		14	5254
6	2838		
		9	5339
2	2927		

Ref. Only

Match to Ramp "A" See Sheet No. 156

6" Oil Line-Ashland Pipe Line Co.

℄ 724.25

℄ 720.5

749.38
37+00
118.0

℄ 719.25

747.97
37+50
118.0

℄ 717.0

745.81
37+00
118.0

Match to Ramp "A" See Sheet No. 156

Ref. Only

Match to Ramp "A" See Sheet No. 156

Ref. Only

Match to Ramp "A" See Sheet No. 156

Ramp "G" X-Sections-Sta. 37+00 to Sta. 38+50

Seeding	
End Width	Sq. Yds

FED. INT. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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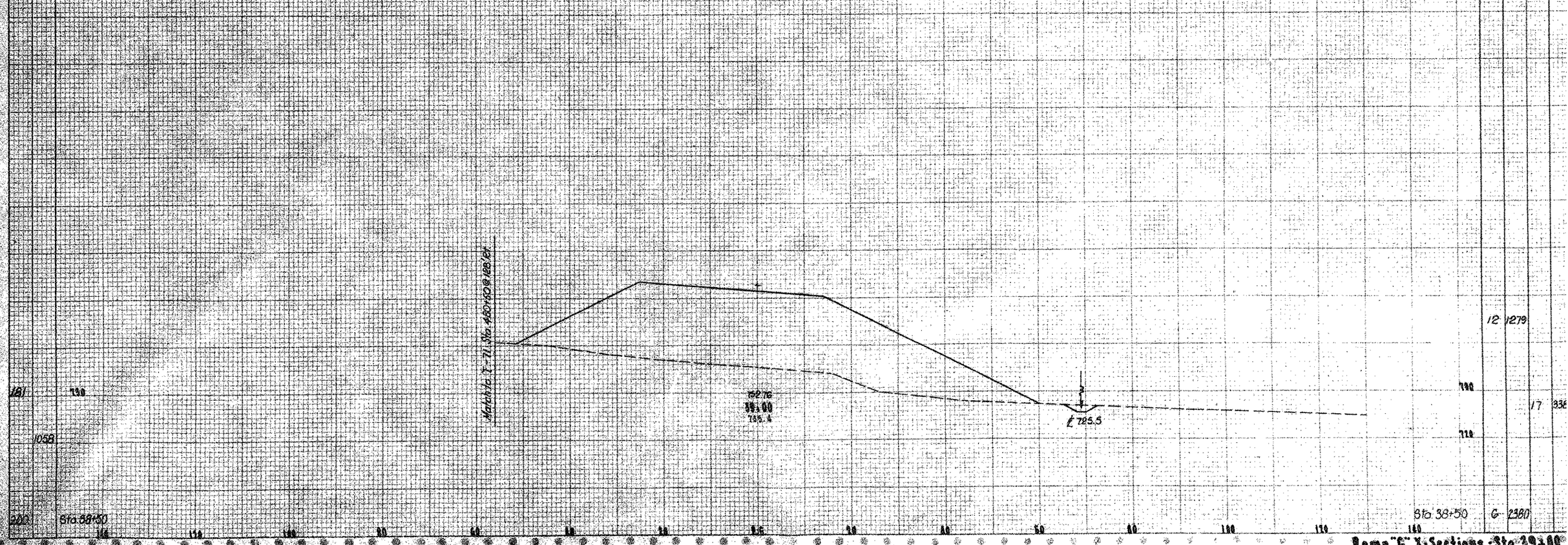
333

End Area		Volume	
Cut	Fill	Cut	Fill



Ramp "G" X-Sections - Sta. 39+00

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

192
933

Excavation	19,764 cy
Embankment	29,710 cy
Embankment + 15%	34,167 cy

For Pavement Elevations on Right Edge Northbound I-71 and "J" C-D Road See Sheet No. 102

Pavement Elevations Rt. Edge Lt. Edge Ramp "H"

772.54 772.30 771.95 771.64 771.31 771.00 770.68 770.36 770.01 769.66 769.34 769.02 768.70 768.38 768.06 767.75 767.44

Graphic Grade for Right Edge Ramp "H"

Right Edge Ramp "H" (Profile Grade)

Sta 0+00 Ramp "H" 966 Rt. of I-71 Bnd 850.50

Existing 15" Storm Sewer

Superelevation Varies (.015 ft/ft Min., .020 ft/ft Max)

772.6 772.1 771.5 771.2 770.8 770.5 770.2 769.8 769.4 769.1 768.8 768.4 768.1 767.8 767.5 767.2

Direction of Traffic

For Pavement Elevations on Right Edge "J" C-D Road Rev. Sheet Nos. 102 & 103

Pavement Elevations Rt. Edge Lt. Edge Ramp "H"

767.44 767.26 767.04 766.83 766.59 766.34 766.08 765.82 765.55 765.17 764.79 764.41 764.01 763.63 763.23 762.80 762.40 762.00 761.57 761.13 760.69 760.24 759.78 759.32 758.85 758.38 757.88 757.38 756.87 756.36 755.84 755.32 754.80 754.27 753.73 753.19 752.64 752.09 751.53 750.98 750.42 749.86 749.30 748.74 748.18 747.62 747.06 746.50 745.94 745.38 744.82 744.26 743.70 743.14 742.58 742.02 741.46 740.90 740.34 739.78 739.22 738.66 738.10 737.54 736.98 736.42 735.86 735.30

Right Edge Ramp "H" (Profile Grade)

-0.76%

-0.84%

300' V.C.

P.V.I. Sta. 15+00.10 El. 761.84

P.V.T. Sta. 17+10.16

-3.40%

Existing 15" Storm Sewer

For Main Profile Back See Sheet #101

Sta. 10+75

Graphic Grade for Right Edge Ramp "H"

Sta. 9+00

Sta. 13+50

Graphic Grade

Sta. 13+82.79 Ramp Pavement Width = 18'

Sta. 14+82.39 Ramp Pavement Width = 16'

℄ 756.0

6" Class 1-3 Pipe (Deep)

℄ 750.5

℄ 749.8

6" Class 1-3 Pipe (Shallow)

℄ 737.0

6" Class 1-3 Pipe (Deep)

℄ 732.3

℄ 730.5

Culvert 24" Class A-1

Direction of Traffic

Superelevation Transition to .025 ft/ft

Sta. 9+75

Sta. 10+25

Superelevation Varies (.015 ft/ft min. .020 ft/ft max.)

Superelevation @ .025 ft/ft

Sta. 15+00

Superelevation Transition from .025 to .049 ft/ft

Sta. 16+25

Superelevation @ .049 ft/ft

Sta. 21+50

Superelevation Transition from .049 to .074 ft/ft

Sta. 22+50

Superelevation @ .074 ft/ft

Ramp "H" Profile - Sta. 0+00 to Sta. 23+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FEA-200-8.04

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Pavement Elevations Rt. Edge Ramp "H"	Pavement Elevations Rt. Edge Ramp "A"
730.68	737.80
734.98	736.16
733.28	734.40
731.58	732.76
729.88	731.06
729.04	730.22
728.23	729.46
727.61	728.79
727.02	728.20
727.32	727.70
726.11	727.29
725.79	726.97
725.56	726.74
725.41	726.57
725.34	726.49
725.36	726.47
725.40	726.45
725.44	726.28
725.48	726.93
725.30	
724.94	
724.61	
724.26	
723.85	
723.39	
722.89	
722.60	
722.28	
721.94	
721.63	
721.32	
721.03	
720.72	
720.40	
720.04	
719.91	

For Pavement Elevations on Right Edge Ramp "A" See Sheet No. 194

750

740

730

720

710

700

250' V.C.

Graphic Grade for Right Edge Ramp "H"

P.V.C. Sta. 25+12.50

P.V.T. Sta. 27+62.50

6" Oil Line: Ashland Pipe Line Co.

-3.40%

6" Class E-3 (Deep)

+0.12%

P.V.I.
Sta. 26+37.50
Elev. 725.21

℄ 719.5

Right Edge Ramp "H"
(Profile Grade)

℄ 718.8

℄ 718.2

℄ 719.4

6" Class E-3 Pipe (Shallow)

℄ 715.7

12'-0" x 7'-0" Box Culvert

Direction of Traffic

Sta. 27+08.77 Ramp Pavement Width = 16'

Sta. 28+08.77 Ramp Pavement Width = 14'

Ramp Pavement Width = 14'

Sta. 29+08.77 End Curb

Sta. 29+25

Sta. 28+00

Sta. 31+25

Sta. 31+75

Sta. 33+25

Sta. 37+19.24 Ramp "H"

Sta. 54+21.51 Ramp "A"

Superelevation @ .074 ft/ft

Superelevation Transition from .074 to .021 ft/ft

Superelevation @ .021 ft/ft

Superelevation Transition from .021 to .060 ft/ft

Superelevation @ .060 ft/ft

Superelevation Continuous Across Ramps "H" and "A"

| | | |

FRANKLIN COUNTY FRA-200-8.04

End Area	Volume	
Cut	Fill	
20	225	69 3960
55	2044	244 3946
208	2220	272 3536
86	1599	109 2330
32	917	89 1313
64	501	117 589
62	135	143 210
92	92	

Seeding

Ext. Width	Sq. Yds.
199	
1103	1122
799	
1122	1075
205	950
1075	836
182	714
950	608
160	516
836	430
141	359
714	301
116	258
608	215
103	172

Match to I-71 Sb. at 2+90 Match Line See Sheet No 125
to 133 Rt.

Match Line See Sheet No 123

Match Line See Sheet No 121

Match Line See Sheet No 121

I-71 Ref. Only

I-71 Ref. Only

Match Pt. @ 25' Rt. Sta. 469+62

Ramp "H" X-Sections - Sta. 16+00 to Sta. 19+50

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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333

	End Area	Volumes
	Cut Fill	Cut Fill
	1088 0	
	2793 0	
	1891 0	
	183 45	
	740 46 99	
	43 1357	
	1416 0	
	13 2712	
	1511	
	44 2910	
	1690	
	31 3296	
	1784	
	19 3668	

Match to Ramp A
See Sheet No. 135

Match to I-71
Sta. 476+50 @ 240' Rt.
& Ramp "A" Sta. 39+60 @ 135' Rt.

East Broad Street

Match to I-71
See Sheet No. 127

Match to I-71
See Sheet No. 127

Match to I-71 Sta. 474+68 @ 255' Rt.

Match to I-71
See Sheet No. 125

Match Line See Sheet No. 125

Ramp "H" X-Sections - Sta. 20+00 to Sta. 25+00

FRANKLIN COUNTY FRA-2.00-8.04

Seeding:	
Bed Width	SY Yds.
116	675
127	747
142	811
150	850
156	925
177	1014
188	

Sta. 23+00

End Area		Volume	
Cut	Fill	Cut	Fill
1206	0	2280	0
1256	0	2406	0
1342	0	2492	0
1352	0	2434	0
1277	0	2255	0
1158	0	2077	0

Ramp "H" X-Sections - Sta. 23+50 to Sta. 16+00

FED. TO DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY
FRA-200 - 8.04

For Culvert Details See Sheets No. 234 & 235

Julius R. & Barbara M. Brant

P.K. in Corner Fence Post
P.K. in PP "SIA43
86°12'42" 46.03 159°45'12" 80.42
℄ Survey S.R. 104.1
320°52'24" 79.65
P.K. in 16" Walnut
Ref. Pt. Sta. 44+56.46

Sta. 36+00 to 39+00
Transition Pavement Width from existing section to typical section "H".
Sta. 36+00 to 38+75
Variable Depth T-35

Cultivated
Lawn
Fr. Barn
Fr. Shed
1½ Sty. Fr. Res.
1-Sty. Res.
Gar.
Gravel Drive
Gravel Drive to Thrailkill Road
Ex. 12" C.M.P.
Ex. 5" M. Drain
Ex. 8" W.L.
Ex. 12" W.L.
Ex. 6" W.L.
Ex. 12" Maple
Ex. 18" Hickory
Ex. 16" Maple
Ex. 14" Maple
Ex. 6'x8' Box Culvert
Ex. Metal Beam G.R.
Ex. Corr. Metal Pipe
Ex. Steel Beam G.R.
Ex. Wood Post G.R.
Ex. Wood Fence
Ex. Chain Link Fence
Ex. Wire Fence
Ex. Brush
Ex. Trees
Ex. Shrubs
Ex. Woods
Ex. Stone Wall
Ex. Concrete Wall
Ex. Concrete Curb
Ex. Concrete Pavement
Ex. Asphalt Pavement
Ex. Gravel Pavement
Ex. Gravel Shoulder
Ex. Asphalt Shoulder
Ex. Concrete Shoulder
Ex. Concrete Gutter
Ex. Asphalt Gutter
Ex. Concrete Median
Ex. Asphalt Median
Ex. Concrete Island
Ex. Asphalt Island
Ex. Concrete Apron
Ex. Asphalt Apron
Ex. Concrete Driveway
Ex. Asphalt Driveway
Ex. Gravel Driveway
Ex. Concrete Walk
Ex. Asphalt Walk
Ex. Gravel Walk
Ex. Concrete Curb
Ex. Asphalt Curb
Ex. Gravel Curb
Ex. Concrete Gutter
Ex. Asphalt Gutter
Ex. Concrete Median
Ex. Asphalt Median
Ex. Concrete Island
Ex. Asphalt Island
Ex. Concrete Apron
Ex. Asphalt Apron
Ex. Concrete Driveway
Ex. Asphalt Driveway
Ex. Gravel Driveway
Ex. Concrete Walk
Ex. Asphalt Walk
Ex. Gravel Walk
Ex. Concrete Curb
Ex. Asphalt Curb
Ex. Gravel Curb

Begin Sheet
End Sheet
Sta. 35+00
Sta. 46+00
Begin Work Sta. 37+25
To be abandoned
Abandon Exist. 18" V.S.P.
Exist. Channel & Slope to Drain
For Paved Gutter Details, See Sheet No. 217
For quantities & detail of drive & Thrailkill Rd. See Sheet #207
American Aggregates Corp.
Julius R. & Barbara M. Brant

DRAINAGE

Ref. No.	Station From	Station To	Side	I-1 12" Pipe Cl. E-1 L.F.	I-1 12" Pipe Cl. F-1 L.F.	I-1 15" Pipe Cl. A-1 L.F.	I-1 15" Pipe Cl. B-1 L.F.	I-2 Masonry Class "C" C.Y.	I-5 12"-30° Bend Each	I-8 Std. No. 2-2-A C.B. Each	I-14 Paved Gutter Std. Type	L-10 Sodding as per plan W-16" L.F.	L-10 Sodding as per plan W-9" S.Y.	E-12 Removal of Pipe & Under L.F.
1D	37+80	38+00	Rt.			88								37
2D	37+58	37+95	Lt.											81
3D	38+00	40+50	Rt.				250	0.23		2				25
4D	38+09	38+94	Lt.											41
5D	38+36	38+76	Rt.											
6D	38+98	41+20	Lt.								125	41.7		
7D	40+45	41+19	Lt.	76	10				1					78
8D	40+50	41+20	Rt.								70	23.3		
9D	41+20	42+25	Lt.								109	35		
10D	42+75	44+80	Lt.										225	
TOTALS				76	10	88	250	0.23	1	3	300	100	225	282

ROADWAY

Ref. No.	Station From	Station To	Side	I-15 Guard Rail Steel Beam Class L.F.	I-15 Guard Rail Combined L.F.	S-24 Removal of Exist. Struct. Lump	I-9 Stone Under Drain No. 2 L.F.
1R	40+75	44+00	Lt.	375			
2R	40+75	44+22	Rt.	400			
3R	40+48	42+98	Rt.		280		
4R	40+75	42+78	Lt.		200		
5R	41+30					Lump	
6R	44+95	45+00	Rt.	31.5			290
Calc.	38+00	48+00					
TOTALS				812.5	480	Lump	290

STRUCTURES

Ref. No.	Station	Sheet No.	I-1 12"-C.M. & 15"-C.M. Cl. A-1 L.F.	I-2 Masonry Class "E" C.Y.	I-10 Rip-rap as per plan S.Y.	I-10 12 R. Chan. Prot. C.Y.	I-10 Sodding as per plan S.Y.	E-3 Chan. Excav. C.Y.
1-S	41 + 25	233 234	114	5.5	62	68	7	350
TOTALS			114	5.5	62	68	7	350

DRIVES

Ref. No.	Station	Side	Length	I-30 Bitum. Prime Coat 40G/Sy Gal.	I-35 2" Asph. Conc. Surf. Course Type C C.Y.	I-35 Asph. Aggr. Base Course T-6 C.Y.	Sht. No. Sheet
1A	37 + 85	Lt.	26	2.8	4	10	200
2A	38 + 85	Lt.	26	2.8	4	10	200
3A	39 + 58	Rt.	26	4.4	6	15	200
TOTALS				10.0	14	35	

1¼" Asphaltic Concrete Surface Course
1¾" Asphaltic Concrete Leveling Course
8" Waterbound Macadam Base Course

Typical Section Adjoining Pavement Type T-35

2-Lanes @ 11'-22'
1:06
1:06

Existing Pavement S.R. 104

Ø20" H.L.S.O.
Ø15" C.M.P.L.L.
Ø12" C.M.P.L.L.
Ø12" V.C.P.
Ø8" V.C.P.
Ø8" Cl. B-1 @ 1%
Ø8" Cl. B-1 @ 3.00%
Ø12" Cl. I-1 Outlet
Ø24" H.L.S.O.
Ø24" C.M.P.L.L.
Ø24" R.C.P.
Ø12" Outlet

Ex. 12" C.M.P.
Ex. 5" M. Drain
Ex. 6'x8' Box Culvert
Ex. Metal Beam G.R.
Ex. Steel Beam G.R.
Ex. Wood Post G.R.
Ex. Wood Fence
Ex. Chain Link Fence
Ex. Brush
Ex. Trees
Ex. Shrubs
Ex. Woods
Ex. Stone Wall
Ex. Concrete Wall
Ex. Concrete Curb
Ex. Asphalt Pavement
Ex. Gravel Pavement
Ex. Gravel Shoulder
Ex. Asphalt Shoulder
Ex. Concrete Shoulder
Ex. Concrete Gutter
Ex. Asphalt Gutter
Ex. Concrete Median
Ex. Asphalt Median
Ex. Concrete Island
Ex. Asphalt Island
Ex. Concrete Apron
Ex. Asphalt Apron
Ex. Concrete Driveway
Ex. Asphalt Driveway
Ex. Gravel Driveway
Ex. Concrete Walk
Ex. Asphalt Walk
Ex. Gravel Walk
Ex. Concrete Curb
Ex. Asphalt Curb
Ex. Gravel Curb
Ex. Concrete Gutter
Ex. Asphalt Gutter
Ex. Concrete Median
Ex. Asphalt Median
Ex. Concrete Island
Ex. Asphalt Island
Ex. Concrete Apron
Ex. Asphalt Apron
Ex. Concrete Driveway
Ex. Asphalt Driveway
Ex. Gravel Driveway
Ex. Concrete Walk
Ex. Asphalt Walk
Ex. Gravel Walk
Ex. Concrete Curb
Ex. Asphalt Curb
Ex. Gravel Curb

57+50 25' Lt.
Std. No. 2-2A C.B.
Grate El. 710.00
℄ Side Inlet 709.50
℄ C.B. 707.50

58+00 22' Rt.
Std. No. 2-2A C.B.
Grate El. 710.20
℄ Side Inlet 708.70
℄ C.B. 706.60

39+25 22' Rt.
Std. No. 2-2A C.B.
Grate El. 710.00
℄ Side Inlet 709.50
℄ C.B. 705.50

Existing Conc. Box Culvert
6' High, 6' Wide x 65' Long
Invert 692.94

PVI Sta 41+22
El. 709.85
L.V.C. 600'

PVI Sta 43+72
El. 717.35

PVC Sta 46+00
El. 721.18

Ø20" H.L.S.O.
PVC Sta 38+72
El. 711.79
Ø20" C.M.P.L.L.
Ø15" C.M.P.L.L.
Ø12" V.C.P.
Ø8" V.C.P.
Ø8" Cl. B-1 @ 1%
Ø8" Cl. B-1 @ 3.00%
Ø12" Cl. I-1 Outlet
Ø24" H.L.S.O.
Ø24" C.M.P.L.L.
Ø24" R.C.P.
Ø12" Outlet

Excavation 687 C.Y.
Embankment 10,942 C.Y.
Embankment + 15% 12,583 C.Y.

Sta. 35+00 to Sta. 45+00 State Route 104

FED. ROAD DIVISION	STATE	PROJECT		198 / 333
2	OHIO			

FRANKLIN COUNTY
FRA-200-8.04

For Thrailkill Road Details & Quantities See Sh. No. 207

246' 45+91.75 — 231' 46+17.18 — 204.94' 45+63 — 159.6' 45+63 — 120' 45+63 — 125' 46+20 — 38.6' 46+00 — 80' 45+63 — Thrailkill Road (Gravel, Private) — Sta. 45+00 Ref. Line

Grazing — Franklin Development Co. Limited — 24" Walnut — 18" Walnut — Hemlocks — Hemlocks & Small Trees — Hemlocks & Spruce — Gravel Drive — Earth

110' Lt. SR 104 Sta. 48+94.56
150' Rt. SR 200 Sta. 420+09.53

Sodded Gutter (Typ.) See Sheet No. 217

Abandon Ex. 18" C.S.P. — Special Ditch see X-Sec's — Excavate Earth — Ex. Junction Box — Ex. E.W. — Ex. R/W — R 31446 — Ex. 10" U Drain — Ex. C.B. — Ex. 10" C.I.P. — Sign 31448 R — To Walnut — Ex. R/W Walnut — Lawn — Ex. Dwelling — Ex. Garage — Ex. Well — Ex. Septic Tank — Ex. Leach Field — Ex. Cistern — Ex. Shed — Ex. Silo — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Pasture — Cone. Blk. Found — American Aggregates Corp. — Cultivated — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

Sta. 45+00 Ref. Line — Sta. 55+00 End Sheet

Franklin Development Co. Limited +46.50 107' Lt. Elev. 715.3

Note: For Driveway Quantities See Sheet No. 199

Lawn +65 109' Lt. — 12" Spruce — 18" Walnut — 24" Walnut — 30" Walnut — Ex. Dwelling — Ex. Garage — Ex. Well — Ex. Septic Tank — Ex. Leach Field — Ex. Cistern — Ex. Shed — Ex. Silo — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Pasture — Cone. Blk. Found — American Aggregates Corp. — Cultivated — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

85' SR 104 51+46.63
150' SR 200 418+21.93

Sta. 50+00.00 ℄ S.R. 104
Sta. 410+36.47 ℄ S.R. 200
℄ Survey S.R. 200

Sta. 45+00 Ref. Line — Sta. 55+00 End Sheet

℄ S.R. 104 ℄ SN 00°07'50"E

Abutment Conn. — Abutment Conn. — Ex. C.D.-1" — Ex. C.D.-2" — Ex. R/W — Ex. R/W — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Ex. Junction Box — Ex. E.W. — Ex. R/W — R 31446 — Ex. 10" U Drain — Ex. C.B. — Ex. 10" C.I.P. — Sign 31448 R — To Walnut — Ex. R/W Walnut — Lawn — Ex. Dwelling — Ex. Garage — Ex. Well — Ex. Septic Tank — Ex. Leach Field — Ex. Cistern — Ex. Shed — Ex. Silo — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Pasture — Cone. Blk. Found — American Aggregates Corp. — Cultivated — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

FRA-104-56 — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — R/W — 75' 46+100 — 70' 47+63.63 — Shed (2 units) — Silo (2 units) — To be abandoned (Earth) Field Drive — End Appr. Slab Sta. 48+25.47 — Ex. Gravel Drive — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

Ex. 42" C.M.P. Sta. 48+25.47 — Ex. 42" C.M.P. Sta. 48+25.47 — Ex. R/W — Ex. R/W — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Pasture — Cone. Blk. Found — American Aggregates Corp. — Cultivated — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

Abutment Conn. — Ex. C.D.-2" — Ex. R/W — Ex. R/W — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Pasture — Cone. Blk. Found — American Aggregates Corp. — Cultivated — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

Begin Appr. Slab Sta. 514+14.53 — 36" Ash — Ex. G-2 — Ex. R/W — Ex. R/W — Ex. Steel E.W. Clump & Trees — Ex. R/W — Brush — Pasture — Cone. Blk. Found — American Aggregates Corp. — Cultivated — Earth — Gravel — Ex. Fence — Ex. Wire Fence — Ex. Post — Ex. Guard Rail — Ex. Guy Wire — Ex. Power Line — Ex. Tel. Line — Ex. Tel. Pole — Ex. Tel. Box — Ex. Tel. Manhole — Ex. Tel. Pedestal — Ex. Tel. Cable — Ex. Tel. Underground — Ex. Tel. Overhead — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire — Ex. Tel. Underground Cable — Ex. Tel. Overhead Cable — Ex. Tel. Underground Line — Ex. Tel. Overhead Line — Ex. Tel. Underground Wire — Ex. Tel. Overhead Wire

100' SR 104 51+12.75
150' SR 200 420+50.00

American Aggregates Corp.

P.I. 55+59.22
Δ · 6°57'40"
D · 1°00'00"
R · 5729.578'
T · 348.484'
L · 696.111'

B.M. RR. Spike in North base 48" Oak, 206' Rt. Sta. 418+17 Elev. 721.604

B.M. Concrete R/W Mon. 30.20' Rt. ℄ S.R. 104 Sta. 52+09.88 and 187' Lt. Sta. 419+37 Elev. 710.444

For Bridge Details & Quantities See Sheet Nos. 281 to 295

P.V.I. Sta. 50+00
Elev. 730.19
L.V.C. 1000'
N.R.S.D. 30+1
-3.0%
+3.0%
Bridge Limits
Sta. 48+25.47
Sta. 51+74.53
P.V.C. Sta. 45+00
P.V.T. Sta. 55+00
El. 721.19

Plug — Ex. 18" C.M.P. Cast Iron Pipe — Ex. 10" C.I.P. — Ex. 10" U Drain — Ex. C.B. — Ex. 10" C.I.P. — Ex. 42" C.M.P. Sta. 48+25.47 — Ex. 42" C.M.P. Sta. 48+25.47

FED. ROAD DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY
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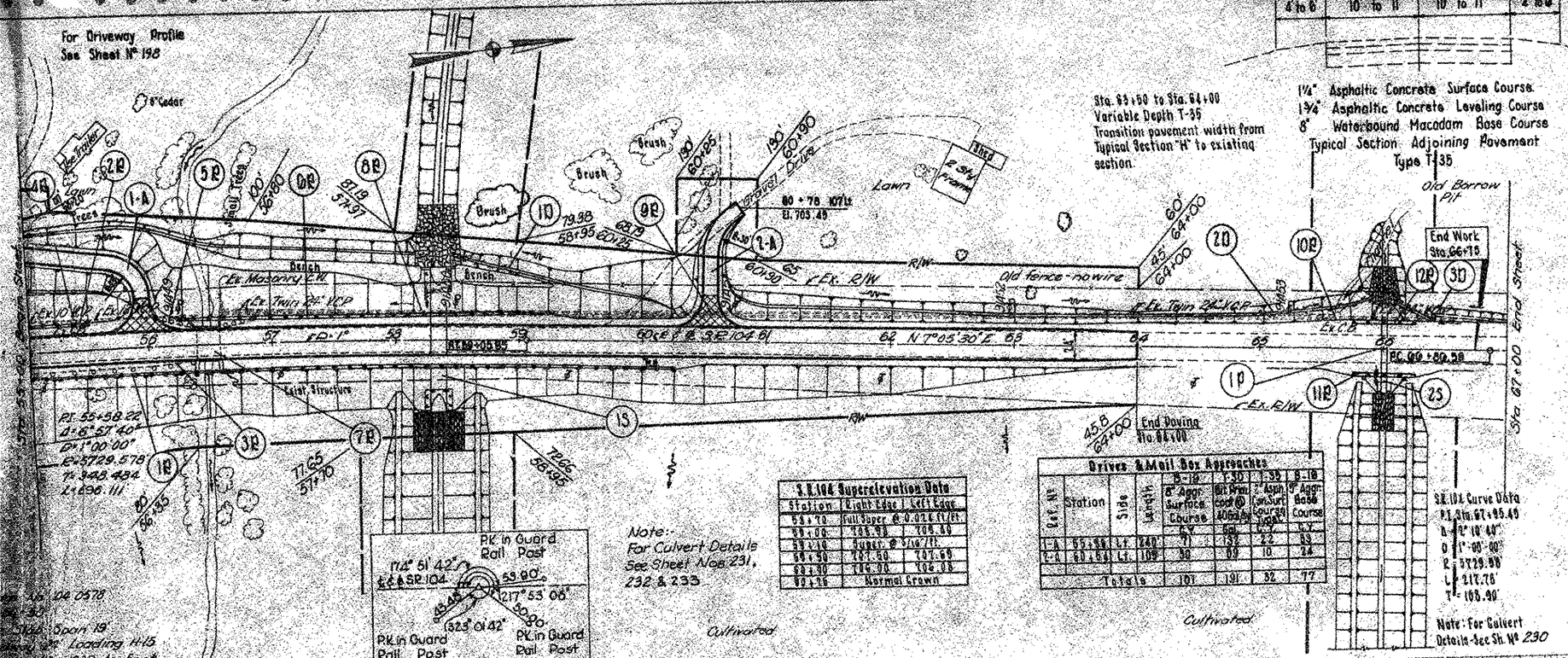
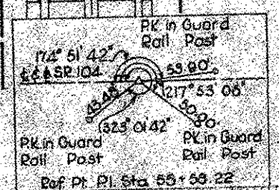
For Driveway Profile
See Sheet № 198





Note:
For Culvert Details
See Sheet Nos. 231, 232 & 233

Estimated

S.R.104 Superelevation Data	
Station	Right Edge / Left Edge
55+70	Full Super @ 0.02 ft/ft.
56+00	705.98 / 705.80
59+10	Super @ Sta. 60
60+50	707.50 / 707.69
63+30	706.70 / 706.18
63+75	Normal Crown

Drives & Mail Box Approaches								
Ref. No.	Station	Side	Width	8" Aggr. Surface Course	T-30 Bit. Prim. coat @ .40 Gal./S.Y.	T-35 2" Asph. Conc. Surface Course	T-35 8" Aggr. Base Course
				S.Y.	S.Y.	S.Y.	C.Y.
1-A	55+88	Lt.	860	71	158	22	33
1-A	60+64	Lt.	105	30	69	10	24
Totals			101	191	32	77	

Estimated

S.R.104 Curve Data
P.I. Sta. 67+95.49
Δ = 6° 10' 40"
D = 1° 00' 00"
R = 5729.58'
L = 617.76'
T = 309.90'

Note: For Culvert Details See Sh. № 230

ROADWAY

Ref. No.	STATION FROM	STATION TO	Side	T-10 Guard Rail & Beam Guard	T-10 Guard Rail Remv'd & Stored	T-10 Catch Basins Abandoned	T-10 Pipe Remv'd 18" & Under	T-12 Pipe Remv'd over 18"	S-24 Item of Exist. Struct.	S-8 Stone Under Drain
				L.F.	L.F.	Each	L.F.	L.F.	Lump	L.F.
1R	55+00	60+20.9	Rt.	520.9						
2R	55+00	55+82	Lt.	82						
3R	55+00	56+97	Rt.		197					
4R	55+40	56+40	Lt.			1	99			
5R	56+00	56+88	Rt.		88					
6R	56+29	56+25	Lt.	300						
7R	56+45		Rt.						Lump	
8R	56+20	56+49	Lt.					50		
9R	60+25	60+69	Lt.					120		
10R	60+63	60+38	Lt.					78		
11R	65+79	66+25	Rt.	50						
12R	63+79	63+29	Lt.	50						
Calc.	55+00	64+00								400
TOTALS				977.9	285	1	99	248	Lump	400

DRAINAGE

Ref. No.	STATION FROM	STATION TO	Side	T-1 24" (Cl. E-1) Pipe	T-2 Masonry Class "C"	T-8 Std. No. 2-S C.B.	T-10 Seeding as per plan W-9	T-10 Sodding as per plan W-8
				L.F.	C.Y.	Each	S.Y.	S.Y.
1D	58+53	59+00	Lt.				37	
2D	63+00	63+40	Lt.					80
3D	64+00	64+40	Lt.	34	41	1	37	80
TOTALS				34	41	1	37	80

STRUCTURES

Ref. No.	STATION	T-1 Pipe (M-6.06) (C.L.A.)	T-1 Pipe (M-6.06) (C.L.A.)	T-2 Masonry Class "C"	T-10 Riprap as per plan	T-10 Channel Excav.	T-10 Channel Waste Disp. Profile	T-5.3 Excav.	T-5.4 Sod as per plan
		L.F.	L.F.	C.Y.	S.Y.	C.Y.	C.Y.	C.Y.	S.Y.
1S	58+38		110	37	22.5	165	0.028	12	
2S	66+00	72		7	75	30	788	10	
TOTALS		72	110	44	390	169	0.028	22	

Note: Side Drainage System Begins @ Sta. 58+30, C.B. Lt., E. 697.21
Side Ditch begins @ Sta. 100+60, E. 706.10

PAVEMENT

Ref. No.	STATION FROM	STATION TO	Side	T-22 8" Aggr. Base Course	T-35 2" Asphaltic Conc. Surface Course Type "C"	T-35 1¾" Asphaltic Conc. Leveling Course	T-30 Bit. Prim. Coat @ .40 Gal./S.Y.	T-10 Aggr. Seal Coat @ .20 Gal./S.Y.
				C.Y.	S.Y.	S.Y.	Gal.	S.Y.
1P	55+00	66+40	Lt.	58	0.9	0.9	8.4	8.7

Existing 4" Thick Conc. Slab Bridge

Ex. Twin 24" VCP

Ex. 24" RCP

Ex. C.B. 77+75 Lt. E. 695.91

Sta. 69+60 76.5' Lt.
Std. №2-S C.B. Basin
Grate El. 697.17
E. Side Inlet 696.00
E. C.B. Basin 695.60

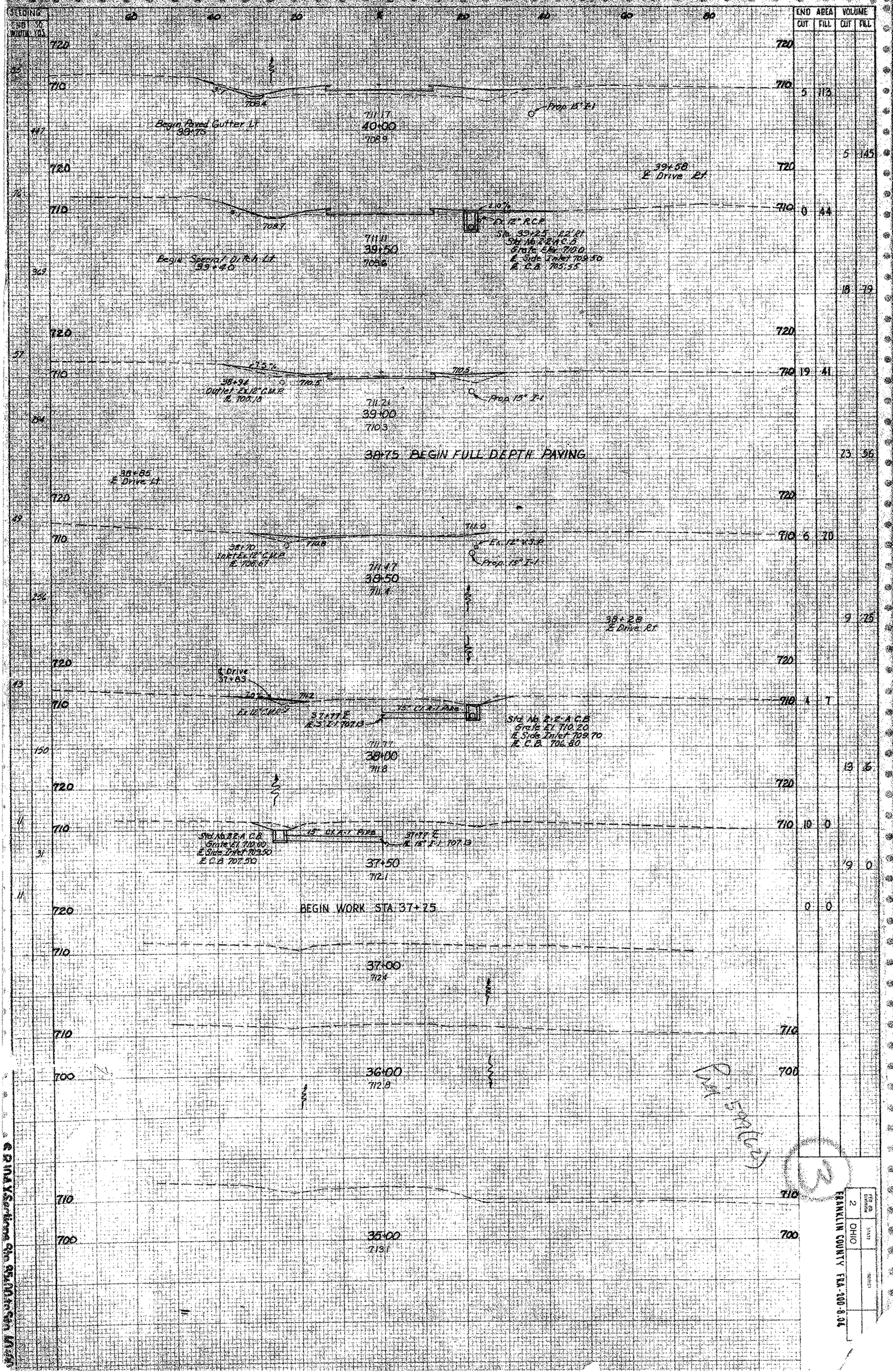
Plug

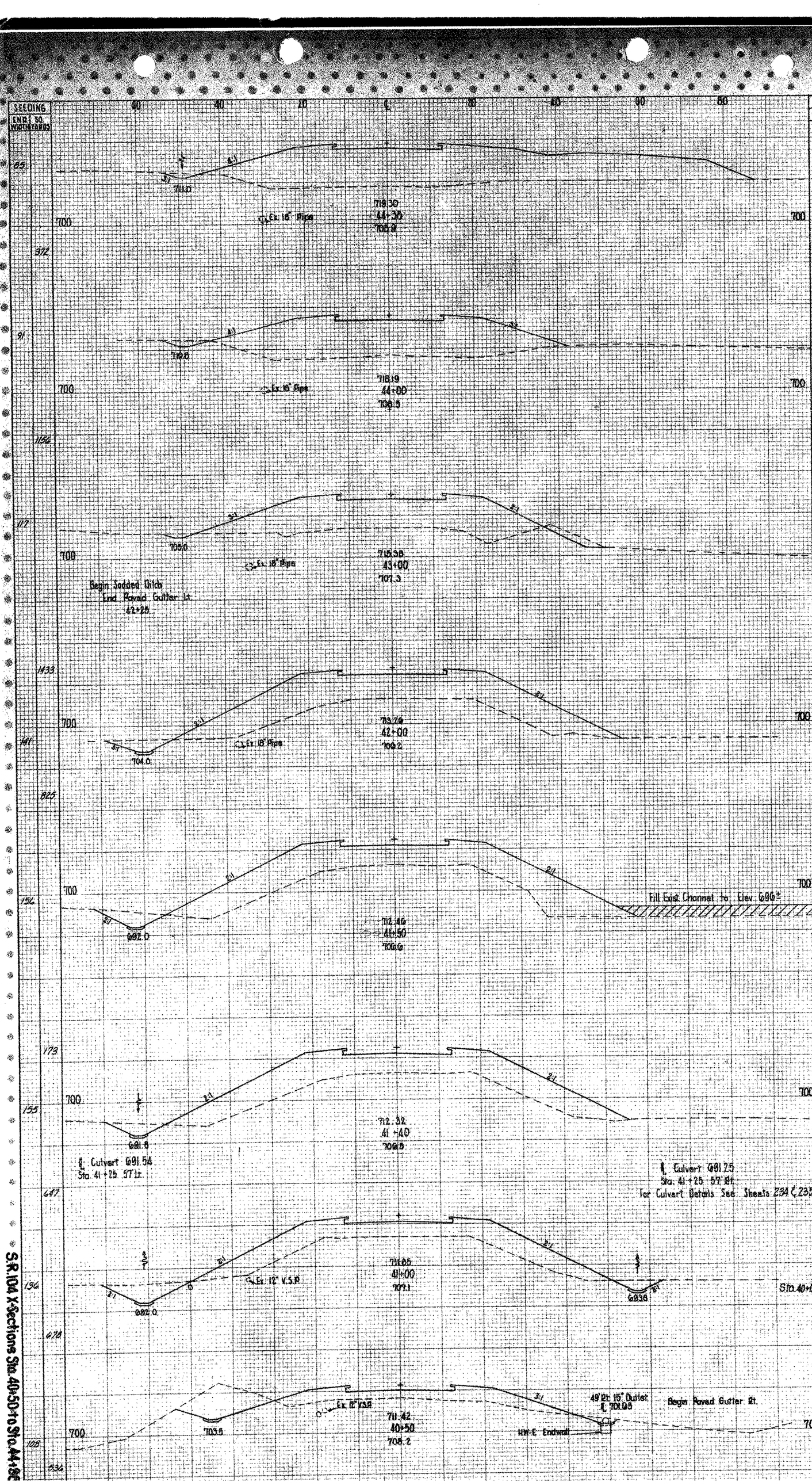
8" Ct. El. Pipe
E. Outlet 693.00
Sta. 68+08.97 Lt.

Excavation 7/14 Cu. Yds.
Embankment 2464 Cu. Yds.
Unclassified 2534 Cu. Yds.

Sta. 55+00 to Sta. 75+00

Bridge No. 104-0578
Over Span 19
Design for Loading H-15
Constructed in 1932 to East
(abandoned)


SLEDDING
END AREA VOLUME
CUT FILL CUT FILL
Begin Paved Gutter LT 39+75
Prop 15" R.C.P.
39+50 E Drive Rt
Ex. 12" R.C.P.
Sta. 39+25 22 Rt
Std. No. 2.2-A C.B.
Grate Elev. 710.0
E. Side Inlet 709.50
E.C.B. 705.55
Begin Special D.I.K.h. LT. 39+40
38+94 Outlet EXIS. C.M.P. E. 706.18
38+75 BEGIN FULL DEPTH PAVING
38+85 E Drive Lt
38+70 Inlet Ex. 12" C.M.P. E. 706.61
Ex. 12" x 31" R.C.P.
Prop. 15" R.C.P.
38+25 E Drive Rt
E. Drive 37+83
Ex. 18" C.M.P.
STA. 37+77 E 15" C.M.P. Pipe
Std. No. 2.2-A C.B. Grate Elev. 710.20 E. Side Inlet 709.70 E.C.B. 706.80
Std. No. 2.2-A C.B. Grate Elev. 710.00 E. Side Inlet 709.50 E.C.B. 707.50
37+77 E 18" R.C.P. 707.13
BEGIN WORK STA. 37+25
40+00
39+00
38+50
38+00
37+50
37+00
36+00
35+00
FRANKLIN COUNTY FRA-100-8.04
DHO
OHIO
2



S.R.104 X-Sections Sta.40+50 to Sta.41+86

DIST. NO. DIVISION	2
STATE	OHIO
PROJECT	

FRANKLIN COUNTY FRA-100-8.04

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
	23		21
	131		1047
	23		13
	131		651
	0		0
	0		

Sta. 43+75 - Sta. 51+44

For Computation of Earthwork Use Sta. 51+44 as Zero and 51+75 as Full Section

Structure No. FRA-200-0894

Sta. 48+25 130 1145 150 1185

Sta. 48+50 190 0 148 657

Sta. 48+75 120 1060

Sta. 48+75 0 21 0

For Computation of Earthwork Use Sta. 48+75 as Full Section and 48+50 as Zero

Structure No. FRA-200-0894

Sta. 44+38 283 4448 34 4578

Sta. 44+38 6 1191 6 1856

Sta. 45+00 0 818 0 1671

Sta. 45+50 0 819 0 1676

Sta. 46+00 0 1002 2 2427

Sta. 46+50 7 119

Drive on Rt. See Sheet #27

Begin Special Ditch Lt.

Sta. 49+00 Exit Transition

Station 2 in Lt. Sight Distance 30' Ft. Clear Vision Point of Intersection Sta. 49+39.139

Begin Special Ditch Lt.

Ex. 18" Pipe

See Threekill Rd. X-Secs. Match Line

Ex. 18" Pipe

See Threekill Rd. X-Secs. Match Line

Ex. 18" Pipe

S.R.104 X-Sections Sta. 44+50 to Sta. 51+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(203 333)

FRANKLIN COUNTY
FRA-200-8.04

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6 1318			5 1619
5 2181			13 3380
9 2118			13 3408
5 1772			11 3353
7 1632			8 3041
2 1652			16 3037
15 1628			83 2921
35 1527		181 4922	
23 1131		316 5360	

S.R. 104 X-Sections Sta. 53+00 to Sta. 56+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	324	0	758
0	435	27	832
29	464	116	970
97	583	91	1210
0	721	43	683
45	1097	159	1436
4.0	1249	46	1140
60	1212	29	1531
2	2906	4	1580
G	1316		

Sta. 56+25

SECOND: STA. 50 NORTH 100

Fill Easement to Exp. Grade

Exist. 24" R.C.P.

Exist. 24" R.C.P.

Exist. 24" R.C.P.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	9	0	9
10	16	10	16
25	24	25	24
14	0		
41	9		
44	125		
25	569		
10	582	9	582
10	245	9	384
0	384		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-200-8.04

Sta 60+50

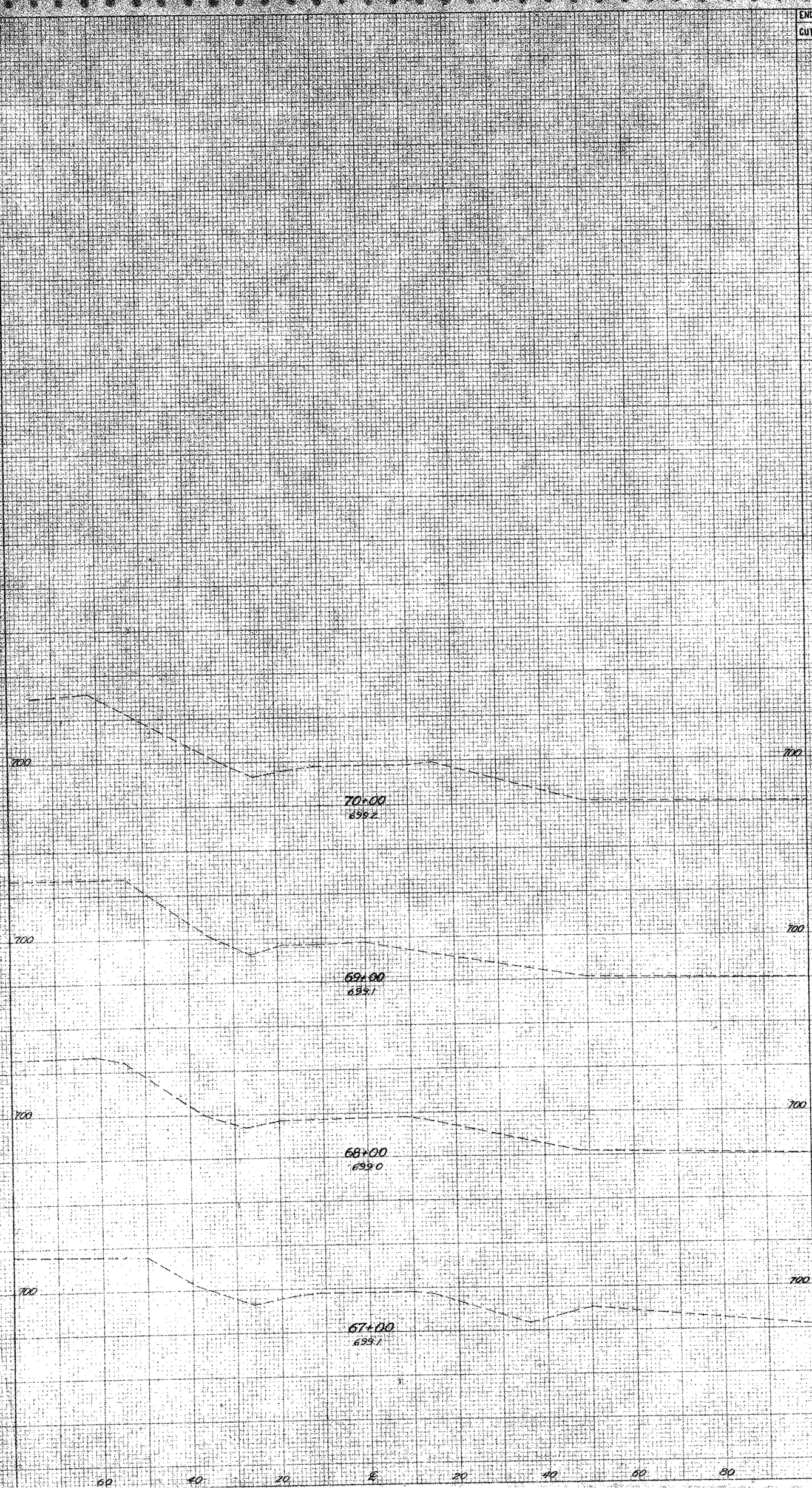
Per Current Design Standard No. 2200

END WORK STA 66+75

S.R. 104 X-Sections Sta. 61+00 To Sta. 66+00

AREA	VOLUME
CUT	FILL	CUT	FILL

BEGINNING	
STA	EL



FED. AID DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY FRA-200-0.04

S.R. 104 2-Sections-Sht. 51 to Sht. 78.dgn

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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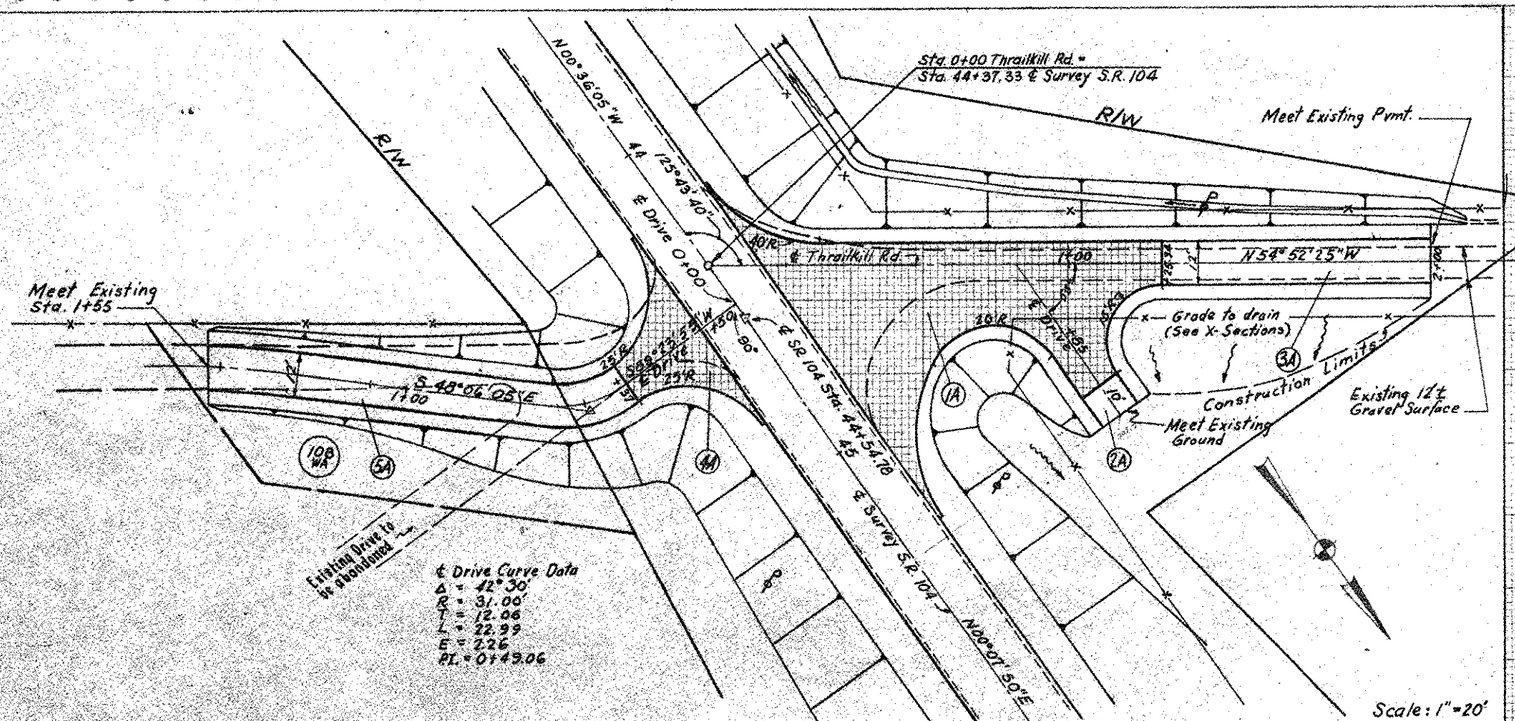
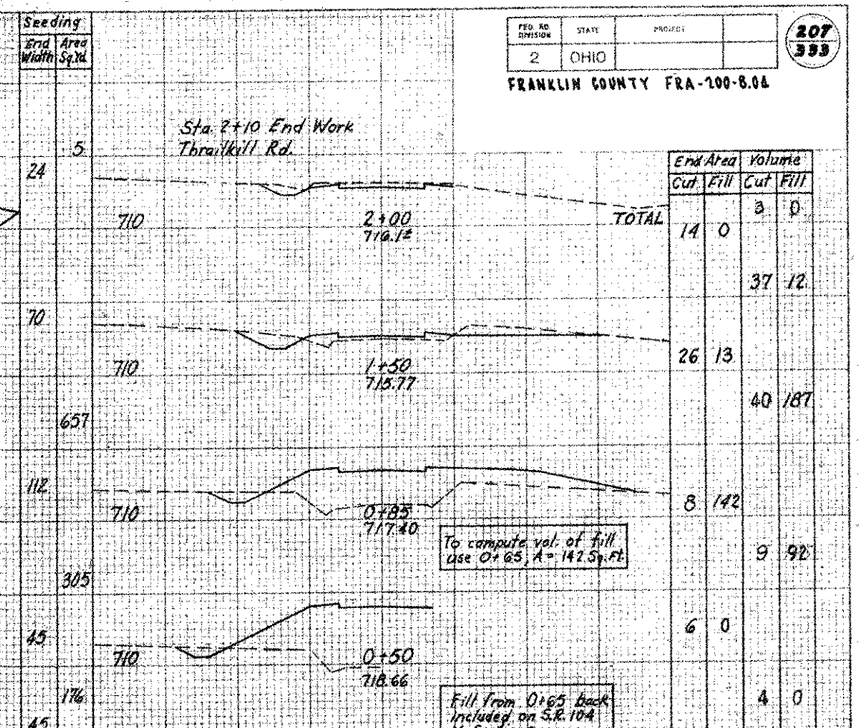
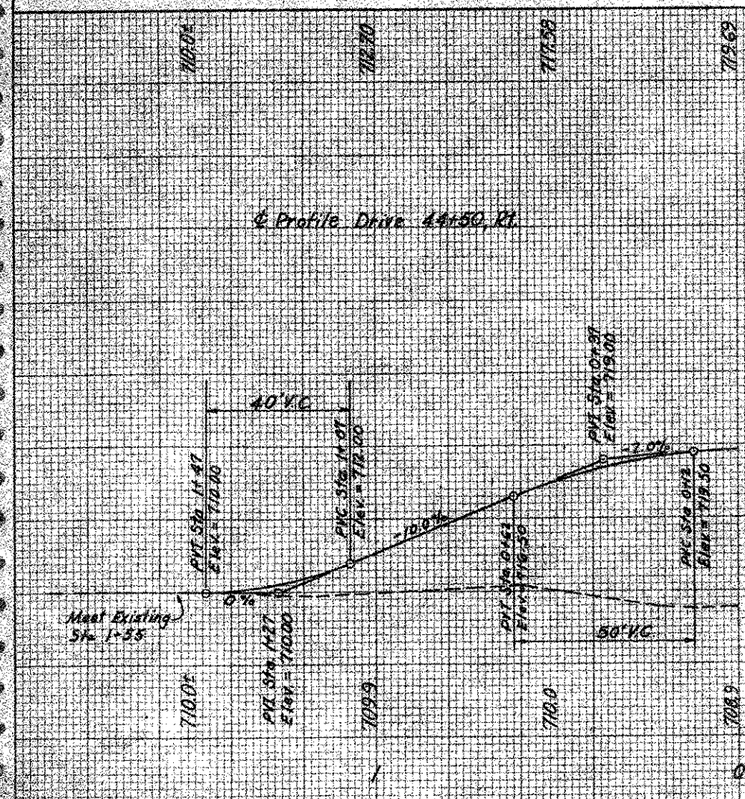
333

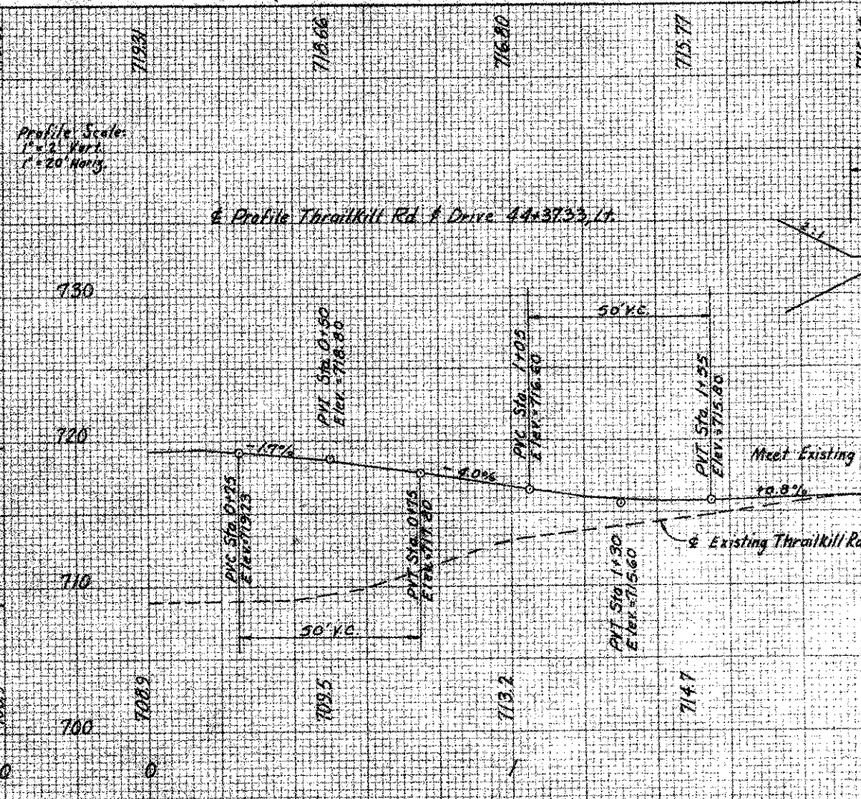


Seeding	
End Width	Area Sq.Yd.
	5
24	
	37
70	
	40
112	
	9
305	
45	
176	
45	



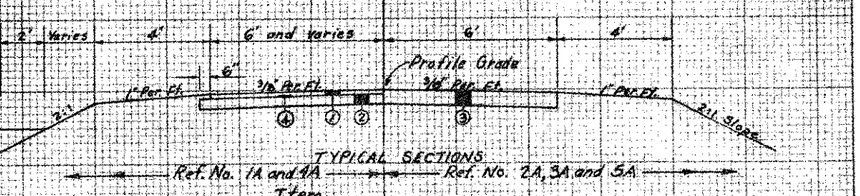
End Area		Volume	
Cut	Fill	Cut	Fill
		3	0
14	0		
		37	12
26	13		
		40	187
8	142		
		9	92
6	0		
		4	0





Sta. 0+14.78 Begin Work
Thrailkill Rd. (Edge Pvmt. SR 104)

X-Sections Scale = 1" = 10'



TYPICAL SECTIONS

Ref. No. 1A and 1A — Ref. No. 2A, 3A and 5A

Item

① Item T-35 2" Asph. Conc. Surf. Crse, Type "C"

② Item B-19 Crushed Aggregate Base Crse, 5"

" " " " " " 7"

③ " " " " " " 7"

" " " " " " 9"

④ Bituminous Prime Coat .40 gal. per S.Y.

ROADWAY

Ref. No.	STATION FROM	STATION TO	Side	T-35 Type C Asph. Conc. Surf. Cor. 2.1" C.Y.	B-19 5" Agg. Base Course C.Y.	B-19 7" Agg Base Course C.Y.	B-19 9" Agg. Base Course C.Y.	T-30 Bitum. Prime Coat Tons/Gal.
Thrailkill Rd & Drive at S.R. 104 Sta. 44+37.33 Rt.								
1-A	0+00	1+25.34	L&R	21		95		194
2-A	0+79	0+91	R			3		
3-A	1+25.34	2+00	L&R				25	
Drive at S.R. 104 Sta. 44+50 Lt								
4-A	0+00	0+37	L&R	4	11			32
5-A	0+37	1+55	L&R			30		
Total				25	11	128	25	226

Excavation	93 cy
Embankment	291 cy
Embankment + 15%	335 cy

Thrailkill Rd.- Plan & X-Sections

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA - 200 - 8.04

200
9.35

DRAINAGE

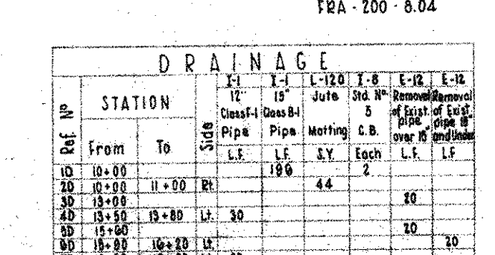
Ref. N°	STATION From	STATION To	Side	I-1 12" Class F-1 Pipe L.F.	I-1 15" Class B-1 Pipe L.F.	L-120 Jute Matting S.Y.	I-8 Std. N° 5 C.B. Each	E-12 Removal of Exist. pipe, over 15' L.F.	E-12 Removal of Exist. pipe 15" and Under L.F.
1D	10+00				199		2		
2D	10+00	11+00	Rt.			44			
3D	13+00							20	
4D	13+50	13+80	Lt.	30					
5D	15+60							20	
6D	16+80	16+20	Lt.						20
7D	16+80	16+80	Lt.	30					
8D	20+00								35
TOTALS				60	199	44	2	40	55

DRIVES

Ref N°	STATION	Side	Length	I-30 Bitum. Prime Coat @ 40°F. Gal.	I-35 2" Asph. Concrete Type C C.Y.	B-10 Aggr. Base Course 7.5" C.Y.	E-8 Removal of Exist. Pvmt. S.Y.
1A	11+20	Lt.	25'	2.9	4	10	
2A	11+14	Rt.	30'	2.9	4	9	
3A	13+61	Lt.	28'	2.9	4	10	
4A	14+29	Lt.	28'	2.9	4	10	
5A	18+08	Lt.	25'				10
6A	18+70	Lt.	26'	2.9	4	10	
7A	18+61	Lt.	26'	2.9	4	10	
TOTALS			171	24	59	10	

STRUCTURES

Ref. N°	STATION	See Sheet N°	I-1 15" Class A-1 Mfg. B(la) L.F.	I-1 36"x24" Class B-1 M 47 (la) L.F.	I-2 Masonry Class "C" C.Y.
1S	13 + 00	211	84		.60
2S	19 + 60	211	86		.60
3S	20 + 00	212		86	.82
TOTALS			170	86	2.02



$25 \times 25 = 625$

$\frac{\pi R^2}{4} = \frac{3.1416}{4} \times 625$

156
214
624

Excavation	10001 CY
Embankment	1419 CY
Embankment +15 %	1632 CY

Service Rd. - Marlane Drive Sta. 10+00 to 20+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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STRUCTURES

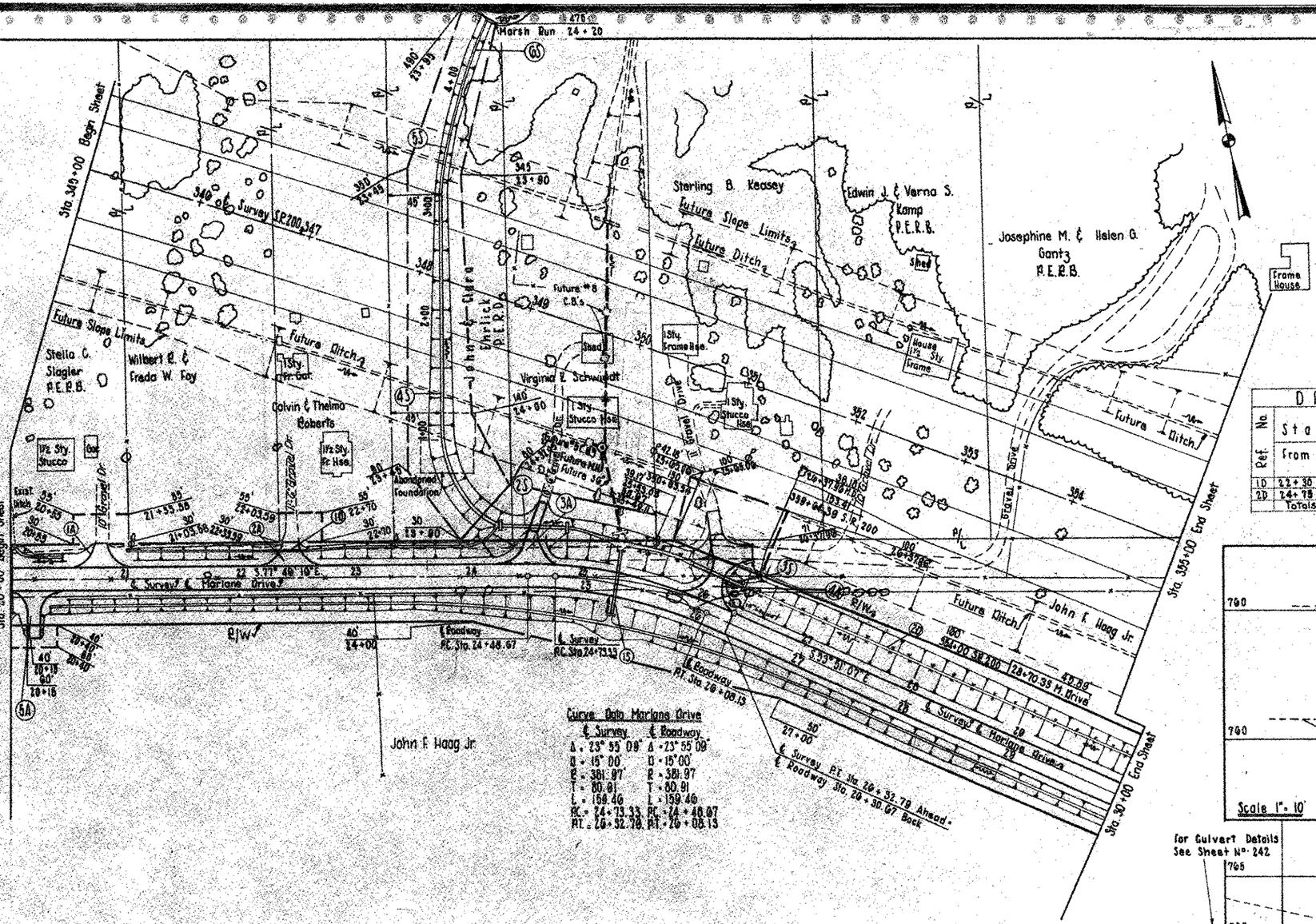
No. Ref.	Station	See Sheet No.	E-3 Chan. Excav.	L-10 Sodding as per plan W=9'	L-10 Sodding as per plan W=12'	I-1 30" Class A-1 M.C.(alt) M.C.(b)	I-2 Masonry Class "C"	I-14 Paved Gutter Std. Type I	I-1 36" Class E-1
			C.Y.	S.Y.	S.Y.	L.F.	C.Y.	L.F.	L.F.
15	23 + 79	242				60	1.06		
25	24 + 50	242					1.18		60
35	26 + 06	242					1.18		52
45	0+00 to 3+00	242	469	100					
55	3+00 to 4+00	242	28		400				
65	4+00 to 4+60	242	17					80	
TOTALS			514	100	400	60	3.36	80	112

DRAINAGE

No. Ref.	Station From	Station To	Side	I-1 10" Class F-1	I-10 Sodding as per W=14'
				L.F.	S.Y.
1D	22+30	22+60	Lt.	30	
2D	24+75	30+00	Lt.		740
Totals				30	740

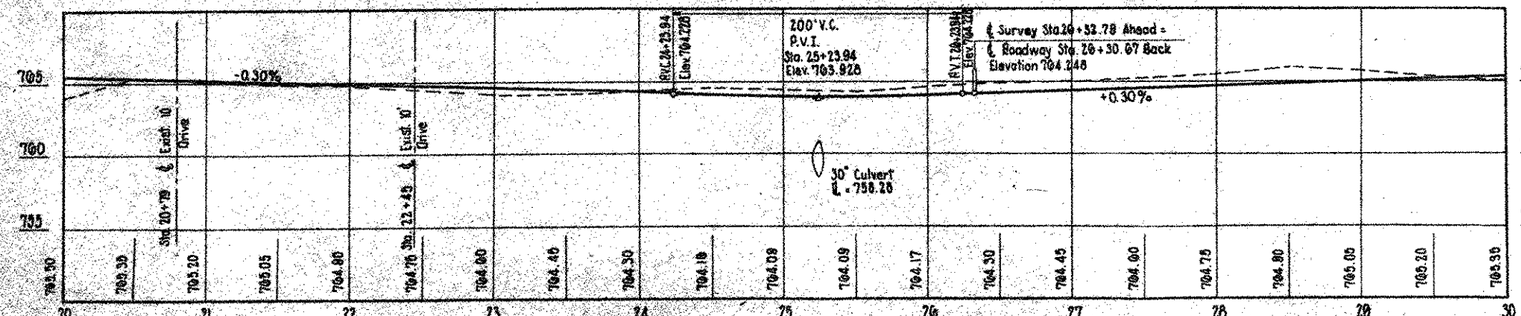
DRIVES

No. Ref.	Station	Side	Length	T-30 Bitum Prime Coat 0.60 Gal.	T-35 2" Asph. Conc. Surf. Course Type C	B-19 Aggr. Base Course T=6"	B-19 Aggr. Base Course T=8"
				S.Y.	C.Y.	C.Y.	C.Y.
1A	20 + 79	Lt.	20	20	3	7	
2A	22 + 40	Lt.	20	23	5	8	
3A	24 + 50	Lt.	26	30	4	10	6
4A	26 + 06	Lt.	55	72	10	25	10
5A	20 + 20	Rt.	40				13
TOTALS				145	20	50	29

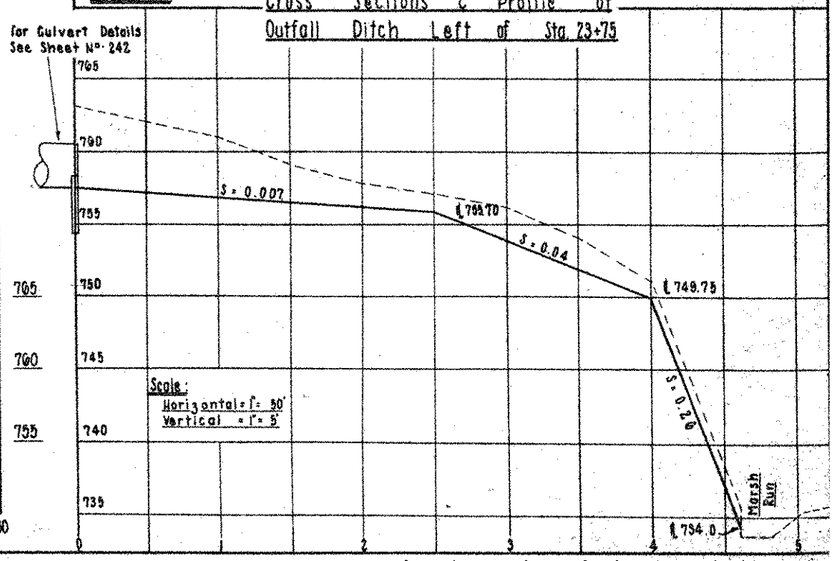


Curve Data Mariana Drive

℄ Survey	℄ Roadway
Δ = 23° 55' 08"	Δ = 23° 55' 09"
D = 15° 00'	D = 15° 00'
R = 381.97	R = 381.97
T = 80.91	T = 80.91
L = 159.46	L = 159.46
PC = 24+73.33	PC = 24+48.67
PT = 26+52.78	PT = 26+08.13



Cross Sections & Profile of Outfall Ditch Left of Sta. 23+75



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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STRUCTURES

Ref. No.	STATION FROM	STATION TO	Side	I-1 18" Class A-1 M.O.G.(a) C.S.(b) L.F.	I-1 24" Class A-1 M.O.G.(a) C.S.(b) L.F.	I-2 Masonry Class C C.Y.
1S	36+25		℄		60	.49
2S	36+0		℄	60		.30
3S	37+10		℄	60		.30
	TOTALS			120	60	1.09

DRIVES

Ref. No.	STATION	Side	Length	T-30 Bitum Prime Coat @.40 Gal.	T-35 2" Asph. Conc. Surf. Course, Type 1 C.Y.	B-10 Aggr. Base Course C.Y.
1A	41+75	Rt.	14	2	5	
	TOTALS		14	2	5	

DRAINAGE

Ref. No.	Station From	Station To	Side	L-10 Sodding As Per Plan S.Y.
1D	30+60	37+10	Lt	898
2D	37+10	41+75	Rt	134
	TOTAL			1032

Sta. 37+00 to Sta. 41+60 on Marlane Drive
See Change Order No. 8.
for revised alignment.

Service Rd. Marlane Drive Sta. 30+00 to 41+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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Area = 6.8 Acres
Q_{10} = 13 c.f.s.

Area = 8.3 Acres
Q_{10} = 16 c.f.s.

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
			5	40
			37	39
			35	2
			50	6
			19	5
			124	5
			115	0
			203	5
			104	5
			267	6
			184	0
			80	112
			16	31
			5	58
			26	57
			23	4
			51	4
			33	0
			43	11
			12	12
			18	51
			7	44
			102	187
			103	157
			100	183
			45	11
				58 15
			18	4
				48 7
			34	2
				72 5
			44	3
				81 6
			43	2
				51 30
			12	30
				63 105

Service Rd. Marlene Drive Sta. 10+00 to 18+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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Area = 45.6 Acres
Q10 = 76.0 c.f.s.

℄ Driveway

60' 36"ø Class E-1
S=0.004 ft/ft

℄ 757.46 Std. H.W-E Endwall

℄ 757.7 Std. H.W-E Endwall

CULVERT UNDER DRIVEWAY LEFT OF STA 24+50

End Area Cut	End Area Fill	Volume Cut	Volume Fill
47	4		
		76	4
35	0		
		75	0
46	0		
		43	28
		15	39
16	12		
		75	11
65	0		
		102	10

763.02 — 765.05 — 21+50 — 765.0

Profile of Drive 20+79 Lt 5%

763.17 — 765.20 — 21+00 — 765.1

20+79 ℄ DRIVE

℄ 764.0 — 763.32 — 765.25 — 20+50 — 765.4

Profile of Drive 20+20 Rt.

Area = 11.4 Acres
Q10 = 21.0 c.f.s.

24' — 24%

S=0.005 — 60' 36"ø Class A-1 n=0.71(a) — 765.55 — 20+00 — 764.1

℄ 764.00 Std. H.W.E. Endwall

Std. H.W.E. Endwall — 763.17 — 0 — 30

℄ 763.60 — 763.62 — 765.85 — 19+50 — 765.1

℄ 765.8 — 763.77 — 765.80 — 19+00 — 766.3

Area = 25.2 Acres
Q10 = 44.7 c.f.s.

℄ Driveway

52' 36"ø Class E-1
S=0.0011 ft/ft

Std. H.W-E Endwall ℄ 758.68

℄ 759.25 Std. H.W-E Endwall

CULVERT UNDER DRIVEWAY LEFT OF STA 26+06

End Area Cut	End Area Fill	Volume Cut	Volume Fill
78	0		
		133	0
65	0		
		104	4
47	4		
		83	7
42	3		
		59	4
22	0		
		80	0
63	0		
		102	4

Profile of Drive at 24+50 Lt.

427' — ℄ 761.60 — 762.13 — 764.16 — 24+50 — 764.6

36" Pipe

761.80 — 762.27 — 764.30 — 24+00 — 764.4

℄ 762.00 — 762.42 — 764.45 — 23+50 — 764.2

762.20 — 762.57 — 764.60 — 23+00 — 764.2

Meet Exist Marlane Drive 42%

Profile of Driveway @ 22+45 Rt.

23%

12" Class F-1
Inlet ℄ 762.70 22+25
Outlet ℄ 762.40 22+58

22+45 ℄ 10 DRIVE

762.72 — 764.75 — 22+50 — 764.5

℄ 763.0 — 762.87 — 764.90 — 22+00 — 764.8

End Area Cut	End Area Fill	Volume Cut	Volume Fill
		205	0
		347	0
		171	0
		317	0
		170	0
		423	0
		170	0
		920	0
		155	0
		206	1
		291	0
		111	1
		66	1
		61	1

℄ 759.75 — 762.72 — 764.75 — 28+00 — 765.5

℄ 759.60 — 762.37 — 764.60 — 27+50 — 765.2

℄ 759.45 — 762.42 — 764.45 — 27+00 — 765.0

℄ 759.25 — 762.22 — 764.25 — 26+32.8 — 764.8 P.T.

36"Pipe PROFILE DRIVEWAY LEFT OF 26+06

℄ 757.9 — 761.82 — 764.09 — 25+00 — 764.5

Area = 2.0 Acres
Q10 = 38.2 c.f.s.

S=0.010 — 60" - 30" Class A-1 M10.6(a) or 6.8(b) — so.east ft/ft

℄ 758.00 Std. H.W.E. Endwall

Culvert 25 +25 Skew 0°

℄ 758.60 Std. H.W.E. Endwall

℄ 757.8 — 762.09 — 764.12 — 24+73 — 764.5

10 30 20 10 ℄ 10 20 30 40

Service Rd. Marlane Drive Sta 18+00 to 28+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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End Area		Volume	
Cut	Fill	Cut	Fill

Culvert
31+25
Skew 0°
Area = 10.1 Acres
Q_{10} = 20.0 c.f.s.
℄ Roadway
S=0.006
Std. HW-E Endwall
24" Class A-I Pipe M.6.1(a) or M.6.1(b)
Std. HW-E Endwall
FUTURE
SR 200
℄ 760.62
℄ 760.75
℄ 761.10
31+00
765.2
30+50
765.4
30+00
765.1
29+50
765.3
29+00
765.7
28+50
766.0
℄ 760.50
764.50
℄ 763.47
℄ 760.38
765.25
℄ 763.32
℄ 760.20
765.20
℄ 763.17
℄ 760.07
765.05
℄ 763.02
℄ 759.90
764.90
℄ 762.87

Cut	Fill	Cut	Fill
		172	0
		280	0
		130	0
		220	0
		108	0
		220	0
		130	0
		287	0
		180	0
		390	0
		241	0
		412	0

Area = 6.2 Acres
Q_{10} = 11.6 c.f.s.
℄ Roadway
S=0.01
Std. HW-E Endwall
8" Class A-I M.6.1(a) or M.6.1(b)
Std. HW-E Endwall
FUTURE
SR 200
℄ 761.55
℄ 761.75
℄ 762.33
34+00
765.1
33+50
766.8
33+00
766.9
32+50
767.9
32+00
766.1
31+50
765.0
℄ 761.40
766.40
℄ 764.37
℄ 761.25
766.25
℄ 764.22
℄ 761.10
766.10
℄ 764.07
℄ 760.92
765.95
℄ 763.9?
℄ 760.80
765.80
℄ 763.77

Cut	Fill	Cut	Fill
		71	31
		199	29
		144	0
		304	0
		184	0
		417	0
		266	0
		371	0
		135	0
		208	0
		90	6
		243	6

Culvert
37+10
Skew 0°
Area = 6.9 Acres
Q_{10} = 10.5 c.f.s.
℄ Roadway
S=0.005
Std. HW-E Endwall
8" Class A-I M.6.1(a) or M.6.1(b)
Std. HW-E Endwall
℄ 762.60
℄ 762.9
37+05
765.0
36+50
764.9
36+00
765.7
35+50
766.0
35+00
765.7
34+50
765.8
℄ 762.30
767.30
℄ 765.27
℄ 762.18
767.18
℄ 767.12
℄ 762.00
767.00
℄ 764.97
℄ 761.85
766.85
℄ 764.82
℄ 761.70
766.70
℄ 764.67

Cut	Fill	Cut	Fill
		47	65
		65	142
		17	74
		60	92
		48	25
		113	32
		74	10
		128	15
		64	6
		128	10
		74	5
		134	33

Survey ℄ Survey ℄

Survey Service Rd. Mirlane Drive Sta 28+50 to 37+04 (℄)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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End Area		Volume	
Cut	Fill	Cut	Fill
107	0		
166	0		
72	0		
104	3		
40	3		
57	17		
21	15		
			35
27	23		
84	19		
74	0		
224	120		

End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
0	0		
0	0		
0	0		
71	0		
77	0		
150	0		
85	0		
177	0		

Match Line A-A

Sta. 38+05 to 42+50

Service Rd. Marlane Drive

PROFILE

STORM SEWER

Along Grade Road from Marlane Drive

Scale 1" = 10'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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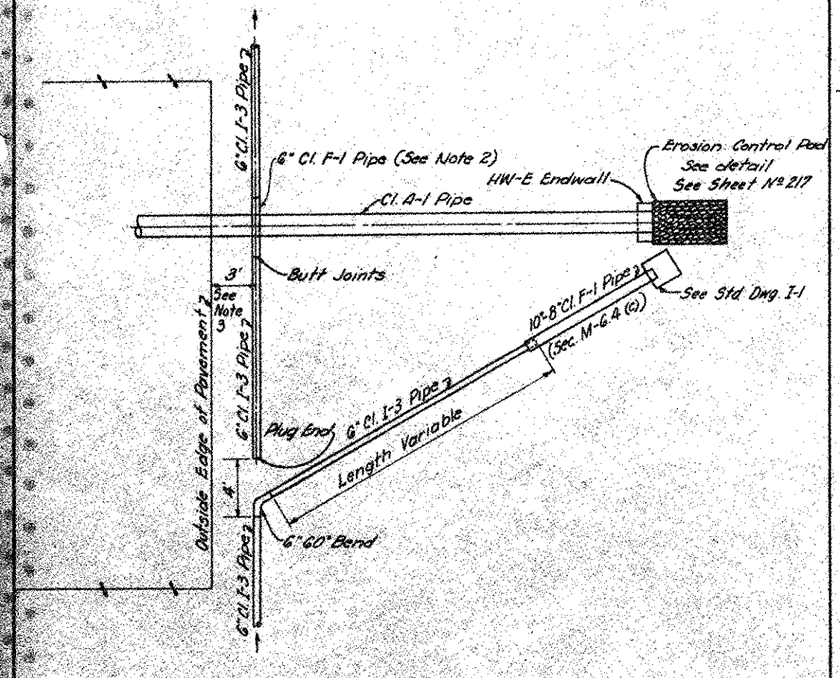
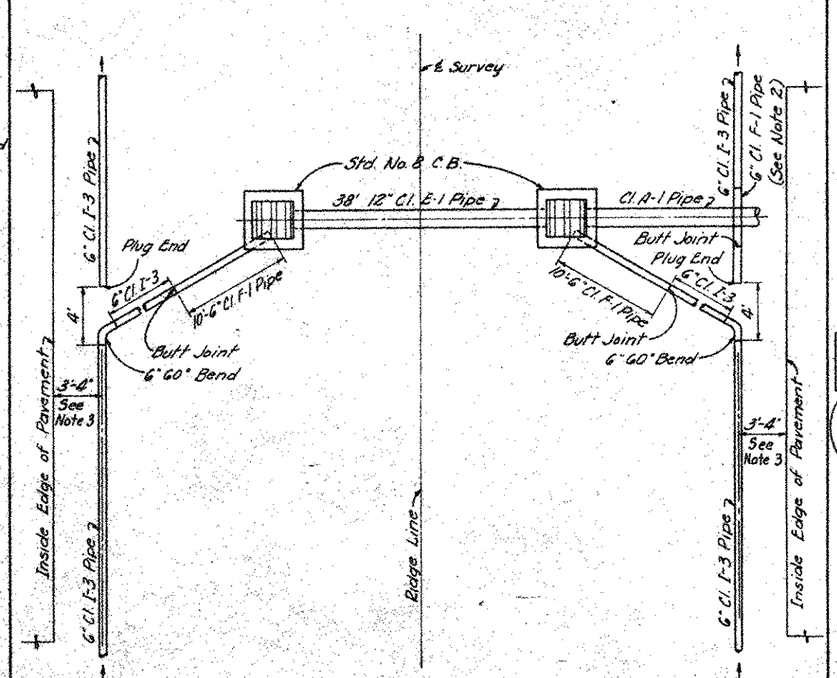
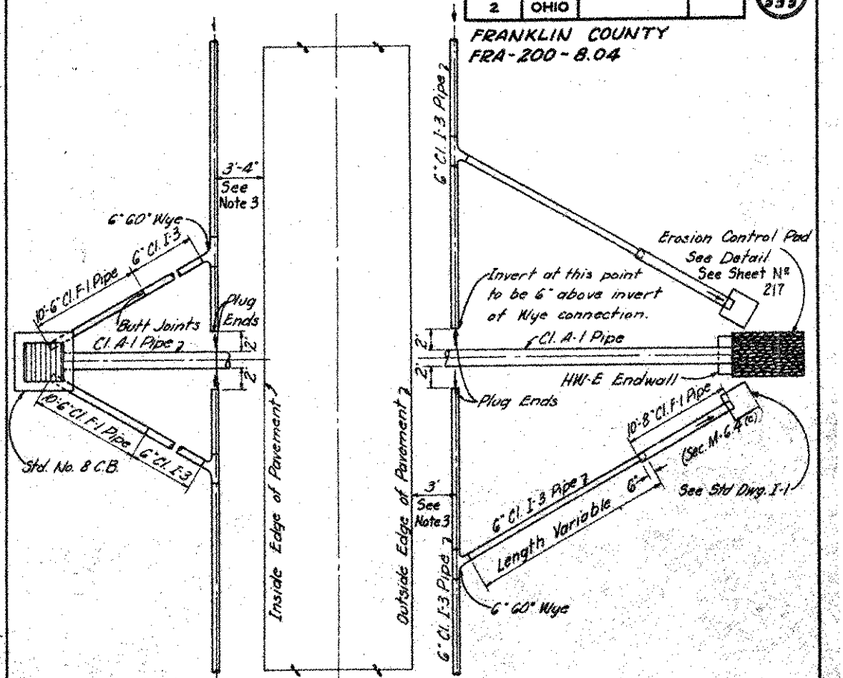


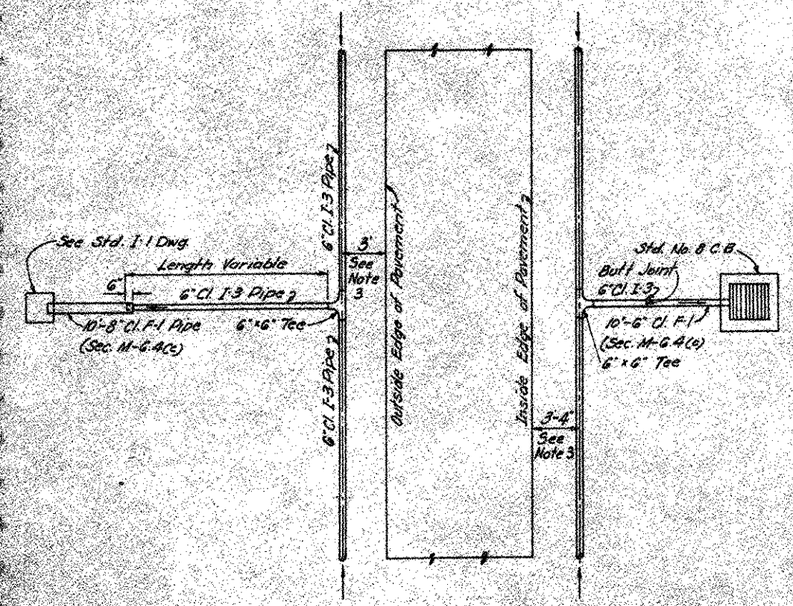
UNDERDRAIN OUTLET DETAIL "A"



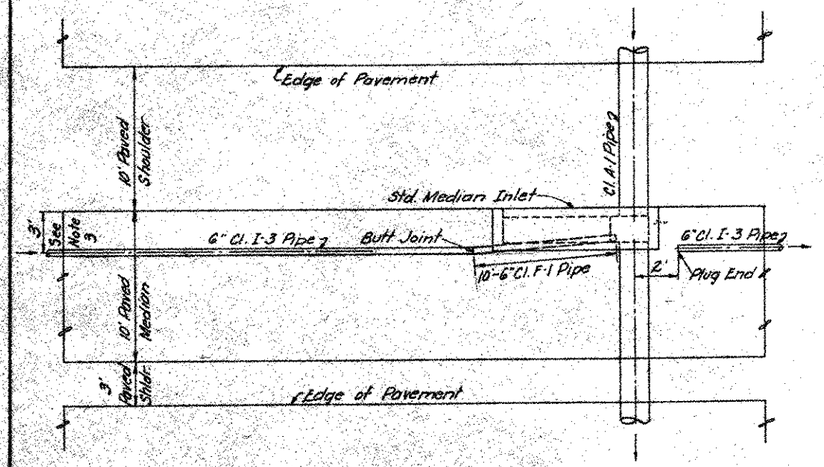
UNDERDRAIN OUTLET DETAIL "B"



UNDERDRAIN OUTLET DETAIL "C"



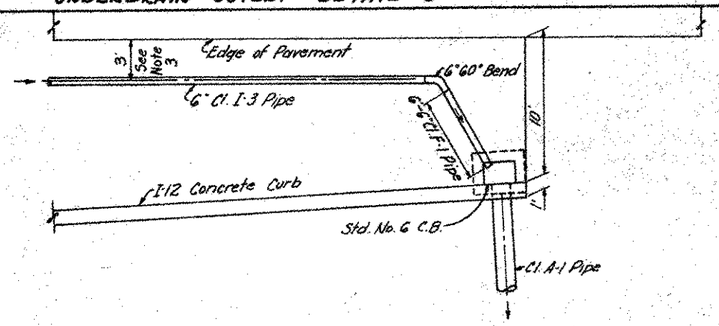
UNDERDRAIN OUTLET DETAIL "D"



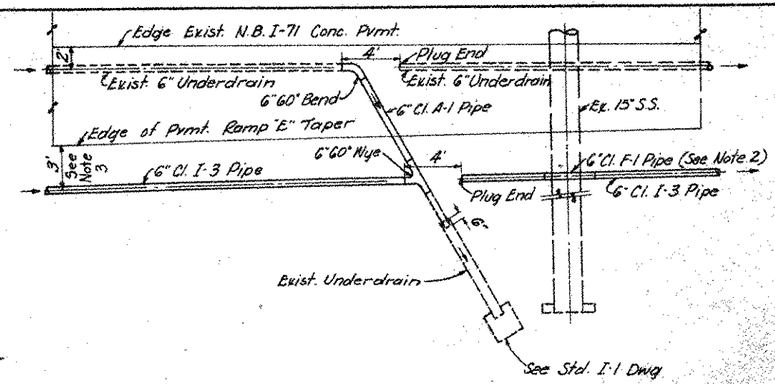
UNDERDRAIN OUTLET DETAIL "E"

NOTES

1. Where 8" Class F-1 Pipe (Sec. M-6.4 (c)) is shown, it shall be furnished with one rolled end.
2. Where an underdrain line crosses a transverse pipe within the area of the granular backfill, such area will be spanned with a 10' min. length of 6" Class F-1 Pipe
3. The distance of underdrain lines from the edge of pavement shall be as shown on the Typical Sections



UNDERDRAIN OUTLET DETAIL "F"

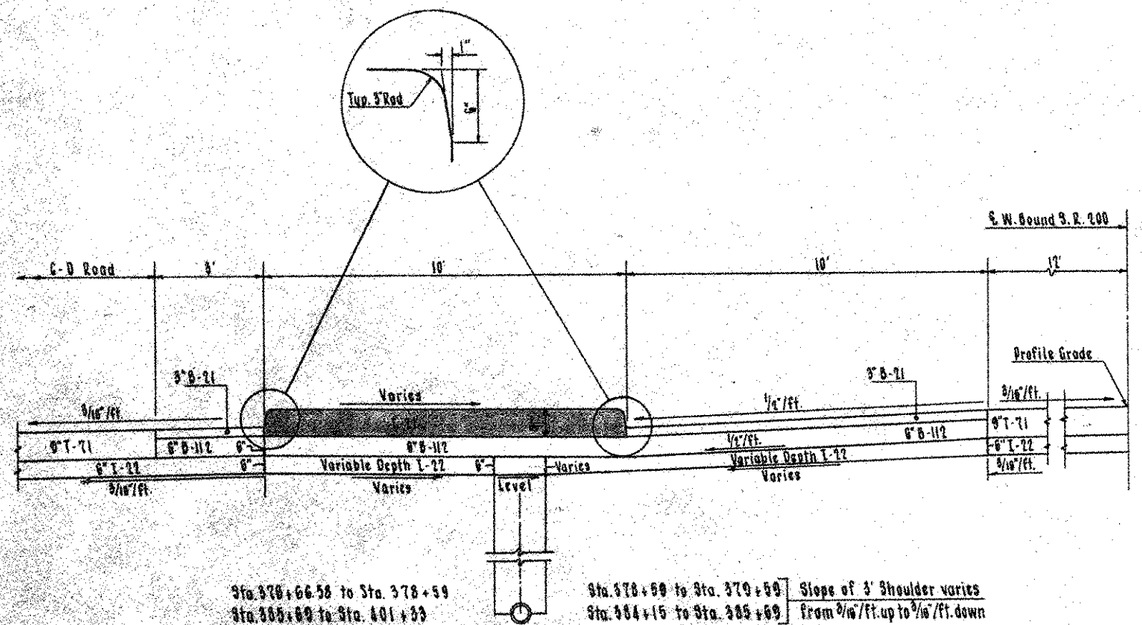


UNDERDRAIN OUTLET DETAIL "G"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

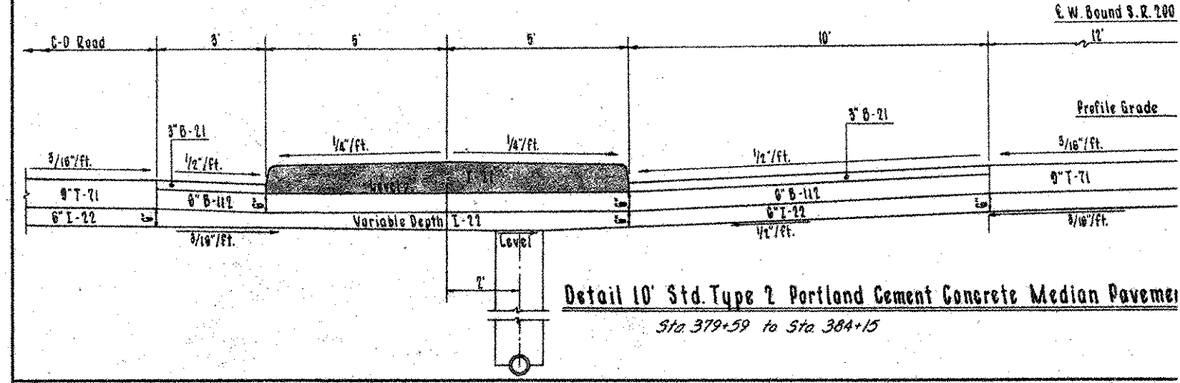
FRANKLIN COUNTY FRA-200-8.84

Detail 10' Std. Type 2 Portland Cement Concrete Median Pavement



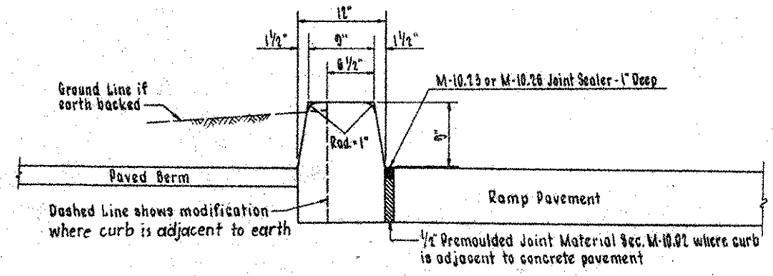
Sta. 376+66.58 to Sta. 378+59
Sta. 385+69 to Sta. 401+33
Sta. 401+33 to Sta. 402+33 Width Varies 10' to 4'

Sta. 378+59 to Sta. 379+59 | Slope of 3' Shoulder varies
Sta. 384+15 to Sta. 385+69 | from 3/16"/ft. up to 3/16"/ft. down

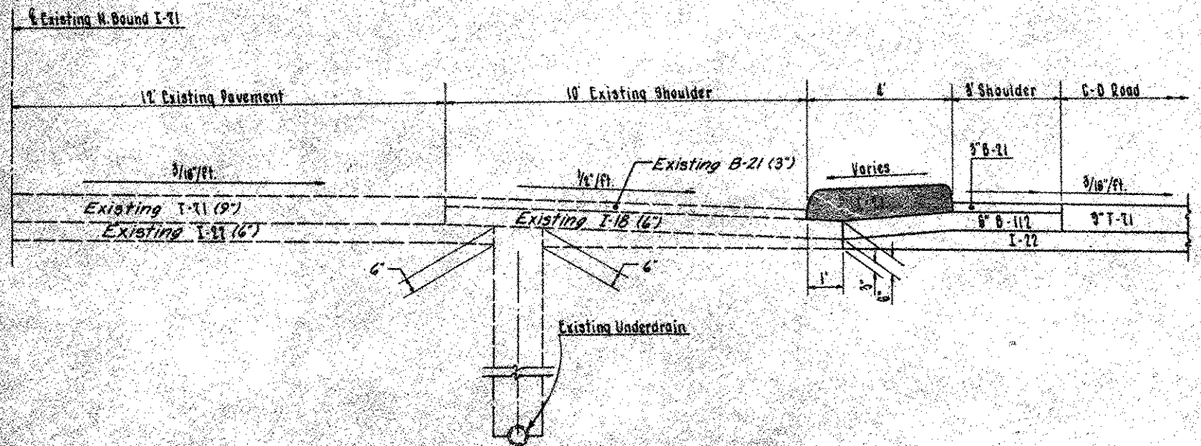


Detail 10' Std. Type 2 Portland Cement Concrete Median Pavement

Sta. 379+59 to Sta. 384+15



Detail I-12 Special Concrete Curb

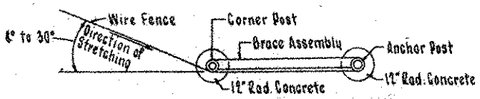


Detail 4' Std. Type 2 Portland Cement Concrete Median Pavement

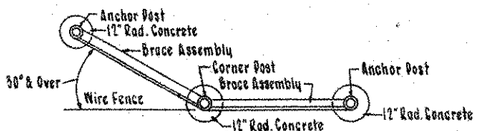
I-71 Sta. 461+50 to I-71 Sta. 476+84
I-71 Sta. 478+17 to I-71 Sta. 485+67
I-71 Sta. 488+94 to I-71 Sta. 506+79

Right-of-Way Fence:

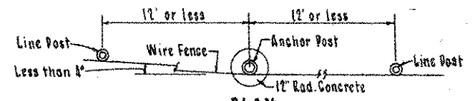
Right-of-Way fence shall conform with the details shown on Standard Construction Drawing No. F-2.1 and shall normally be located 1' inside the Right-of-Way line; where fence follows curved R/W alignment, it shall be located on long chords so that fence is not less than 1' nor more than 8' inside the Right-of-Way line. Fence shall be continuous, except that openings shall be provided at road and stream crossings. End posts shall be located on stream banks and in projected R/W lines of intersecting roads. Corner posts, end posts and intermediate anchor post assemblies shall be placed at locations shown on plan or as directed by the Engineer. Post assemblies shall in no case be spaced more than 660' apart. Assemblies for changes of alignment shall conform with the details shown. Type "D" fence shall be used throughout the project.



PLAN
Intermediate Anchor Post Assembly
Change of Alignment 4° to 30°



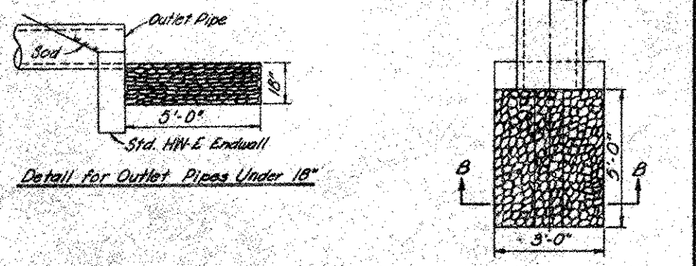
PLAN
Modified Corner Post Assembly
Change of Alignment 30° & Over



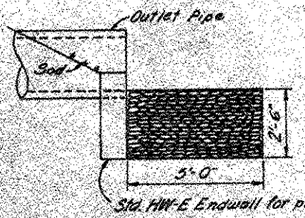
PLAN
Change of Alignment Less Than 4°

Right-of-Way Fence Detail

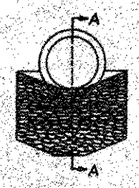
Construction Details



Detail for Outlet Pipes Under 18"



Detail for Outlet Pipes 18" & Over

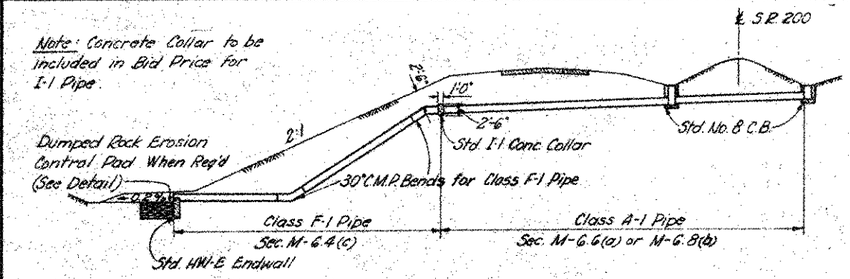


SECTION B-B

SECTION A-A

Note:
Dumped Rock Channel Protection not otherwise shown throughout these plans shall conform to details shown hereon.

DETAIL DUMPED ROCK EROSION CONTROL PAD



MEDIAN OUTLET DETAIL IN HIGH FILL

ITEM L-10
SPECIAL BERM AND SLOPE PROTECTION

Prior to replacement of sod in the berm and slope, galvanized poultry fence shall be placed on the finished grade in strands which shall be at right angles to the directions of flow. Each strand shall be staked securely on top and bottom with stakes placed at four foot intervals.

Stakes shall be 1" × 1" × 8" wood stakes and shall be perpendicular to the ground and flush with the top of the sod.

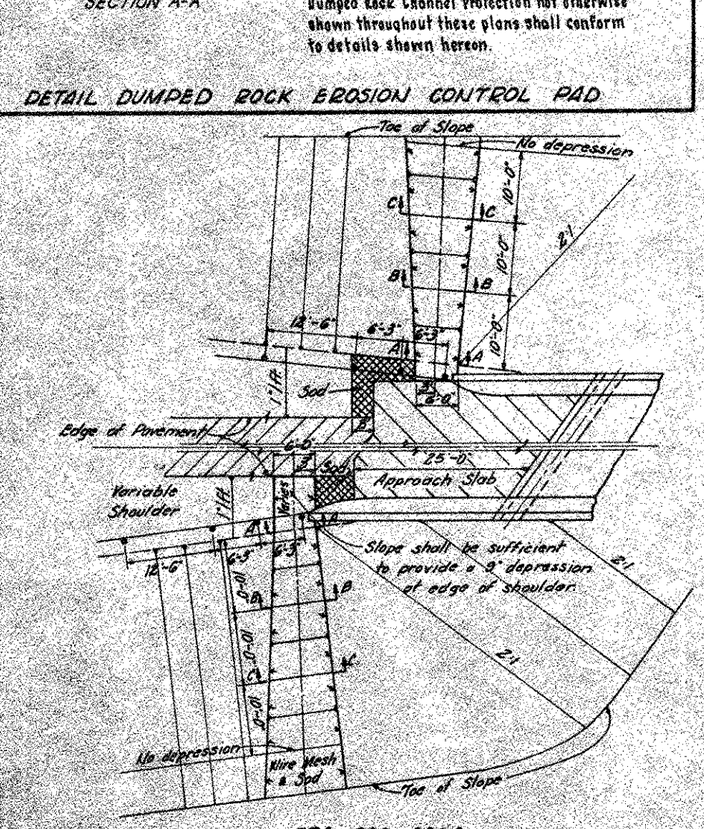
The fence shall be straight line poultry fence or equivalent with strand width of four feet, having a two inch mesh and all wires No. 20 gauge.

The strands of fencing shall be fastened together at twelve inch intervals by means of hog rings.

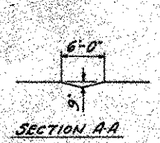
The fence shall be secured to the wood stakes by metal staples.

Sod shall be laid in accordance with the Construction and Materials Specifications Section L-100.7.

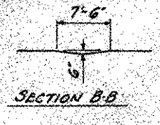
Payment for all the above shall be included in the unit price bid per sq. yd. for Item L-10 Sodding for special berm and slope protection.



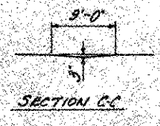
FRA-200-0894



SECTION A-A

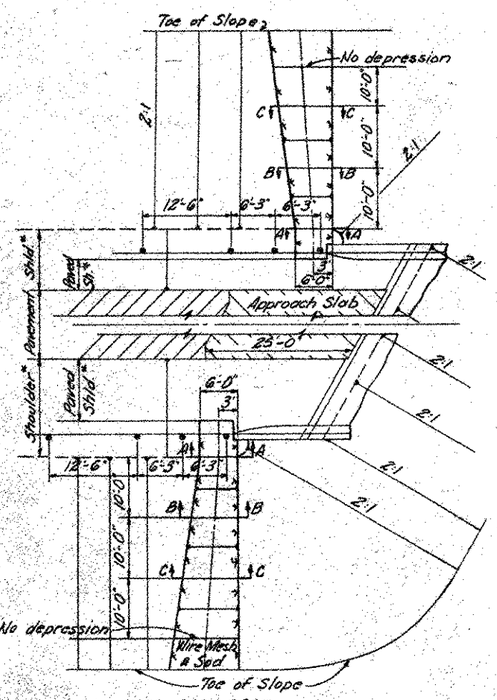


SECTION B-B



SECTION C-C

* For width see Typical Sections and or Pavement Details.



FRA-200-0806
FRA-200-0819 & 0822
FRA-200-Ramp "A" Under I-71 NB & SB

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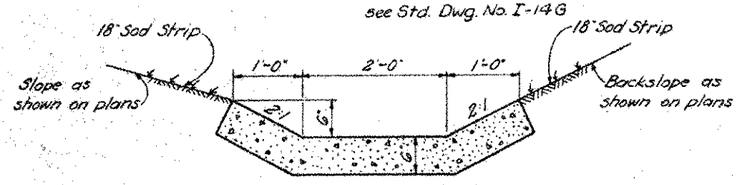
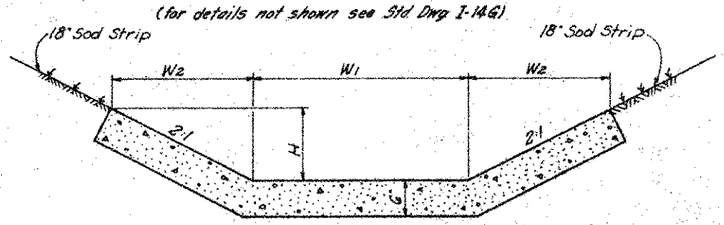
For Details not shown see Std. Dwg. No. I-14G



STD. PAVED GUTTER TYPE I
(for details not shown see Std. Dwg. I-14G)



PAVED GUTTER TYPE 1A

TYPE	H	W1	W2
1-A	6"	8'	1'

DETAIL PAVED GUTTER

APPROACH SLAB DATA

Bridge No.	End of Appr. Slab Sta. @ P.G.	Begin Appr. Slab Sta. @ P.G.	Skew	Length	Width	Thickness	No. Reqd.	Reinforcing Steel List "A" Bars (801) Spc	Length	Dim. 'A'	No. Reqd.	Weight	"B" Bars (501) Length	No. Reqd.	Weight	I-7 Concrete Sq. Yds.
FRA-200-0806	24+08.58	27+29.84	Varies	25'	24'	13"	2	6"	25'-7"	24'-6"	2×50	6830	24'-0"	2×20	1002	133.4
FRA-200-0819	483+62.47	486+89.98	114°25'	25'	24'	13"	1	6"	25'-7"	24'-6"	50	3415	23'-6"	20	490	66.7
				25'	18'	13"	1	6"	25'-7"	24'-6"	38	2595	17'-6"	20	365	50.0
				25'	47'	13"	1	6"	25'-7"	24'-6"	96	6557	46'-6"	20	970	130.6
FRA-200-0822	483+65.03	486+92.53	114°25'	25'	24'	13"	4	6"	25'-7"	24'-6"	4×50	13660	23'-6"	4×20	1960	266.8
FRA-200-Ramp "A" under I-71 NB	476+81.67	478+13.60	51°19'33"	25'	24'	13"	2	6"	25'-7"	24'-6"	2×50	6830	23'-7"	2×20	984	133.4
				25'	16'	13"	2	6"	25'-7"	24'-6"	2×34	4644	15'-7"	2-20	650	88.8
FRA-200-Ramp "A" under I-71 SB	476+83.06	478+14.25	47°11'18"	25'	34'	13"	1	6"	25'-7"	24'-6"	70	4781	33'-7"	20	700	94.4
				25'	31'	13"	1	6"	25'-7"	24'-6"	64	4371	30'-7"	20	638	86.1
● FRA-200-0894	48+25.47	51+74.53	36°20'03"	25'	Varies	13"	2	See Reinforcing Steel List on Sheet No. 295							10028	176.2
FRA-200-0904A	425+68.39	427+57.11	48°0'	25'	24'	13"	2	6"	25'-7"	24'-6"	2×50	6830	35'-0"	2×20	1460	133.4
FRA-200-0904B	424+97.93	426+39.76	32°36'	25'	24'	13"	2	6"	25'-7"	24'-6"	2×50	6830	27'-10"	2×20	1162	133.4
								Total				67343			20409	1493.2

20409

Total weight of reinf. 87752* Total Conc. 1493.2 Sq Yds

NOTE —
* "B" Bars shall be cut to fit.
For Approach Slab Details See Std. Dwg. AS-1-54
● For Approach Slab Details See Sheet No. 295

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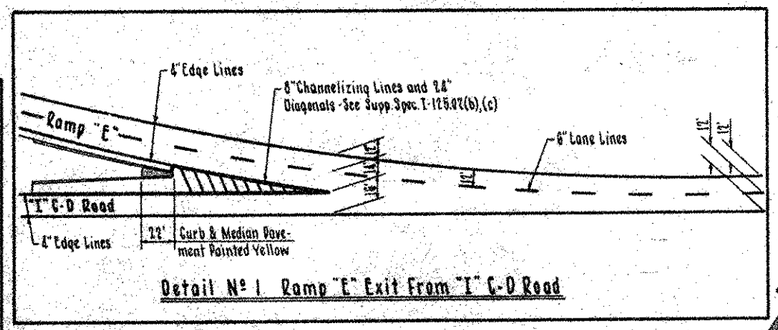
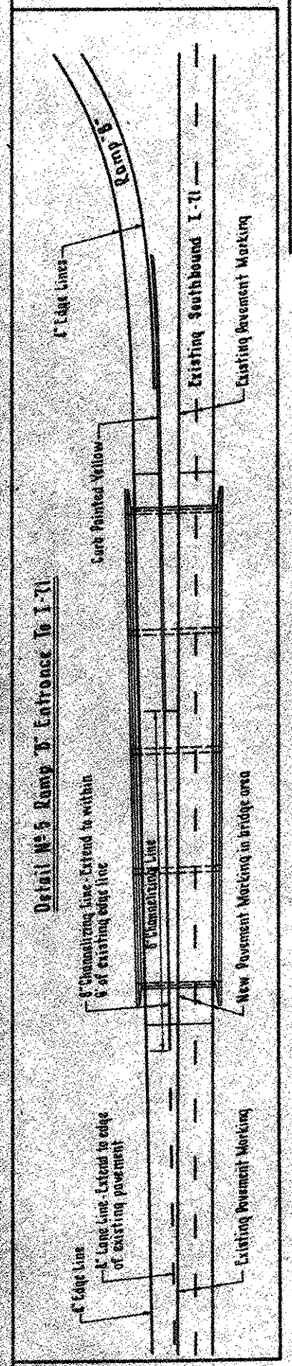
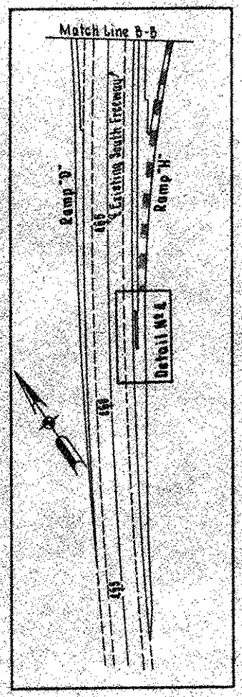
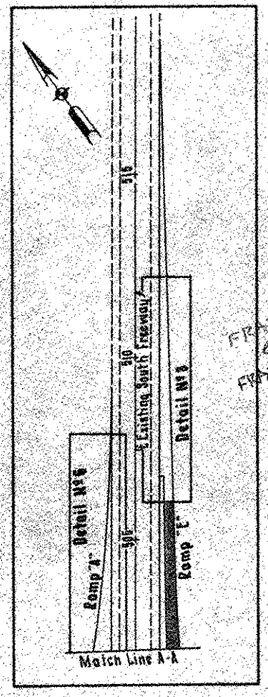
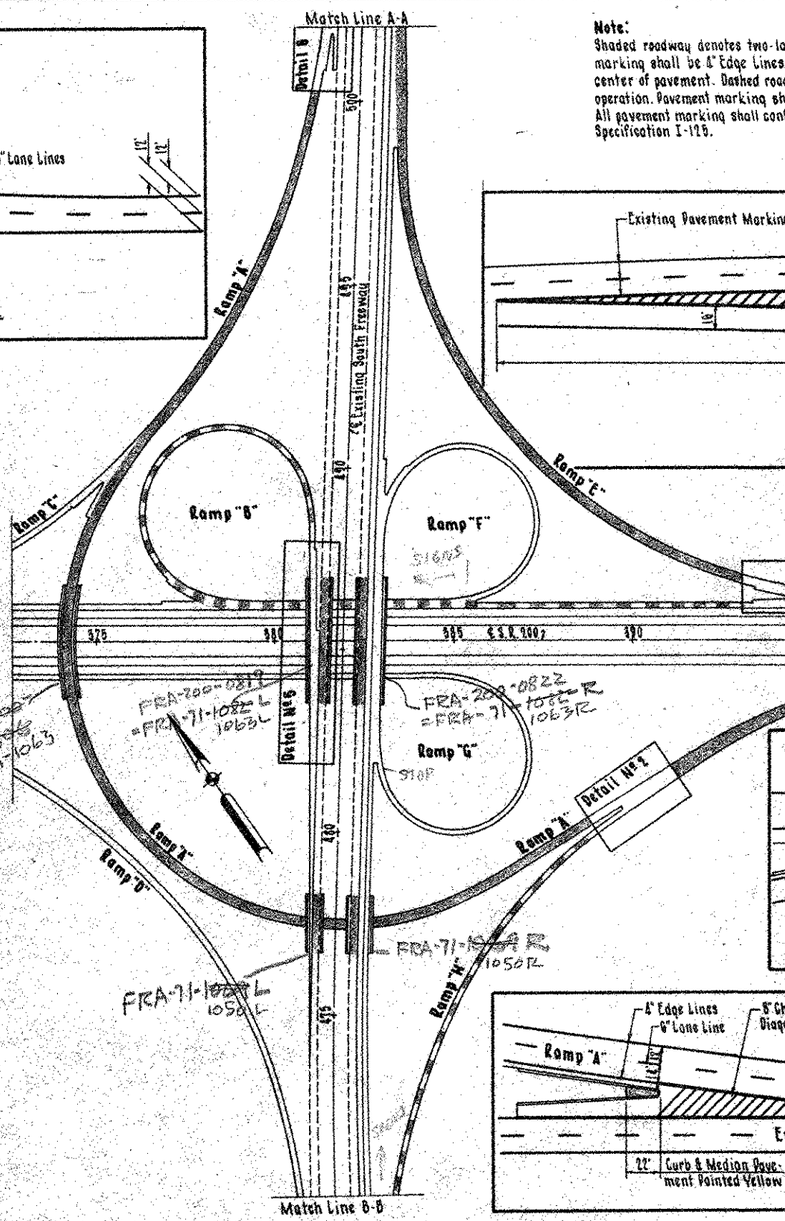


Detail Nº 1 Ramp "E" Exit From "I" C-D Road

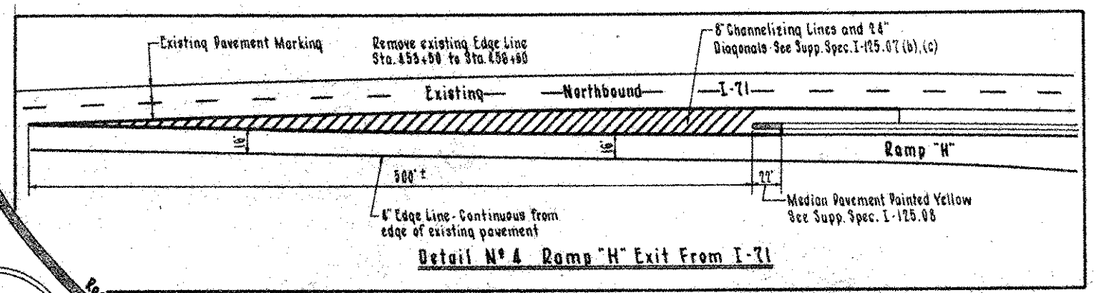








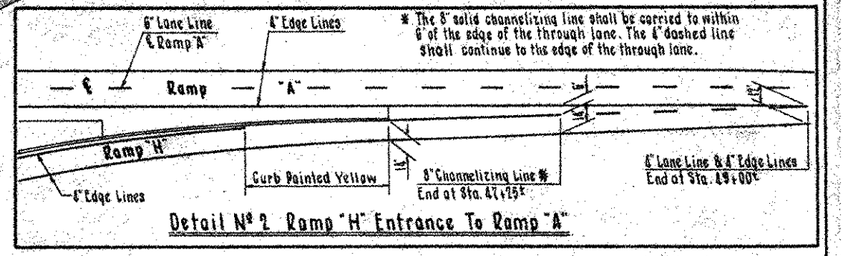
Note:
Shaded roadway denotes two-lane operation. Pavement marking shall be 4" Edge Lines with 6" Lane Lines at center of pavement. Dashed roadway denotes one-lane operation. Pavement marking shall be 4" Edge Lines only. All pavement marking shall conform to Supplemental Specification I-125.



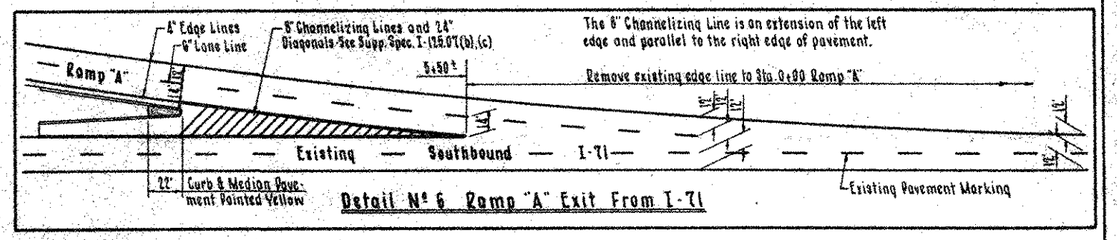
Detail Nº 4 Ramp "H" Exit From I-71

Note: Pavement marking on S.R. 104 shall be 4" Edge Lines and 4" dashed center line applied between the work limits and conforming with the existing pavement marking. Pavement marking on Marlane Drive shall be a 4" dashed center line.

Normal two-lane pavement marking extends to Sta. 448+00.
Pavement marking shall be continuous across all S.R. 200, I-71, Ramp & S.R. 104 bridges.

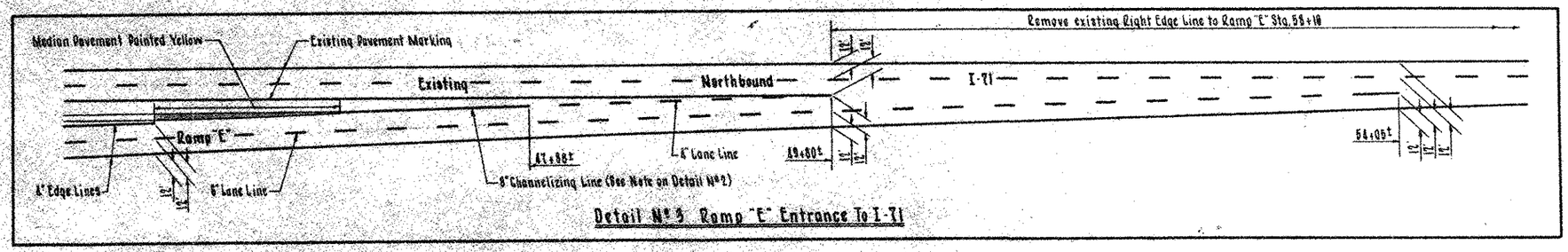


Detail Nº 2 Ramp "H" Entrance To Ramp "A"



Detail Nº 6 Ramp "A" Exit From I-71

Note:
Payment for removal of existing pavement marking, where required, shall be included in the contract unit price bid for the respective new pavement marking item.



Detail Nº 3 Ramp "E" Entrance To I-71

Dr. by M.E.S.

Pavement Marking Details

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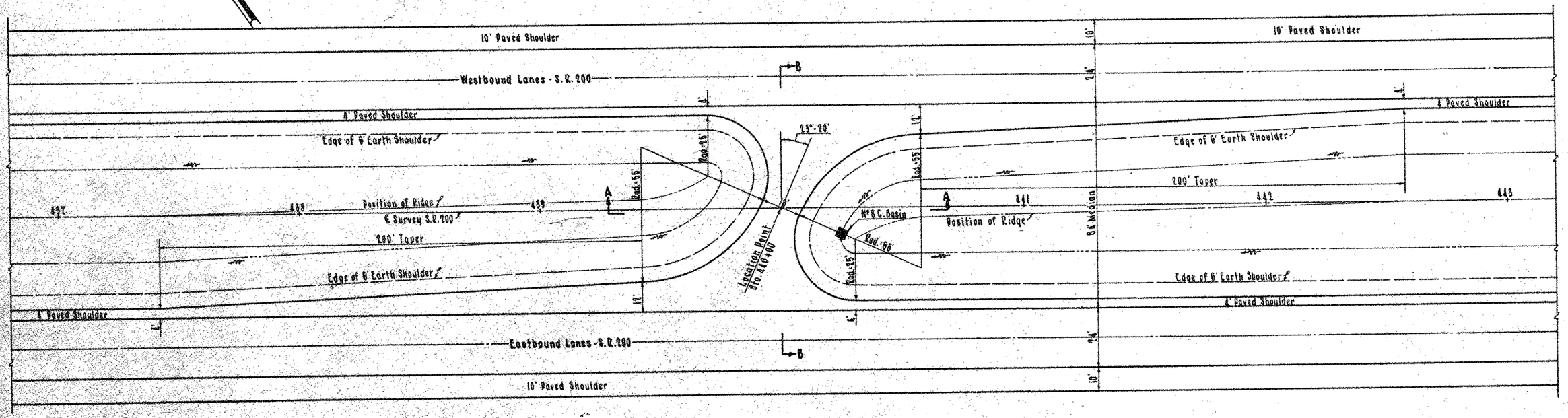
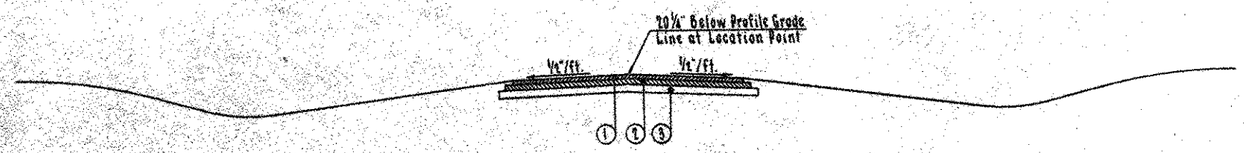


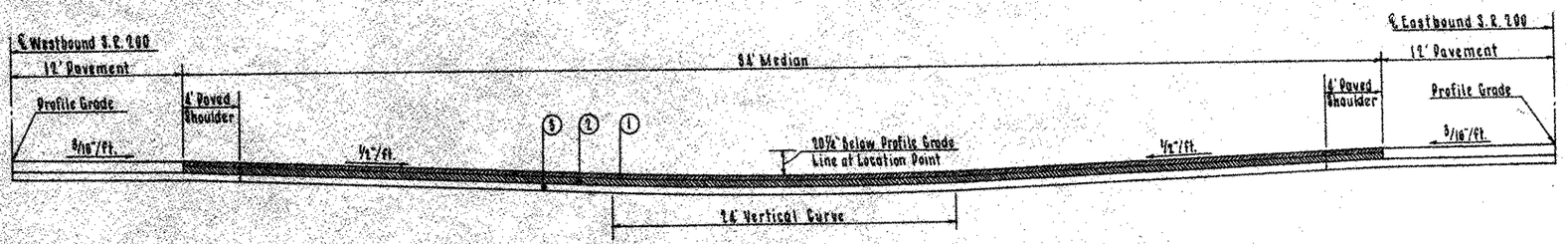
Typical U-Turn Median Opening

Scale: 1" = 20'



Section A-A

Scale: 1" = 5'



Section B-B

Scale: 1" = 5'

-Legend-

1. 9" Waterproof Aggregate, with Surface Treatment, B-21 & T-31
2. 5" Aggregate Base Course, B-19
3. 6" Selected Subbase Material T-22

Standard U-Turn Median Opening at S.R. 200 Sta. 440+00

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2	OHIO		

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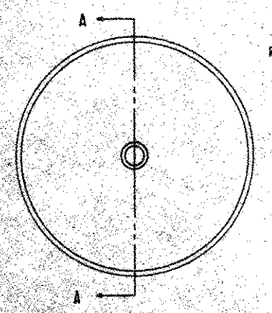
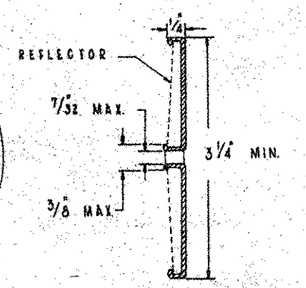
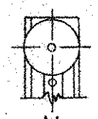
TYPE A

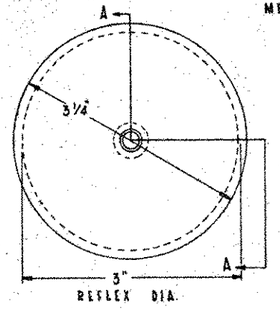


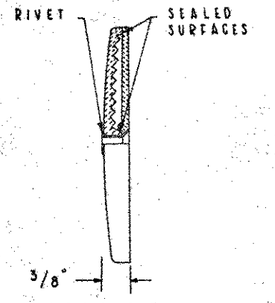


SECTION A-A



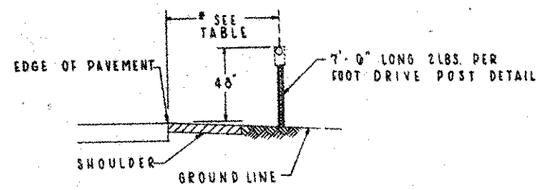
TYPE B





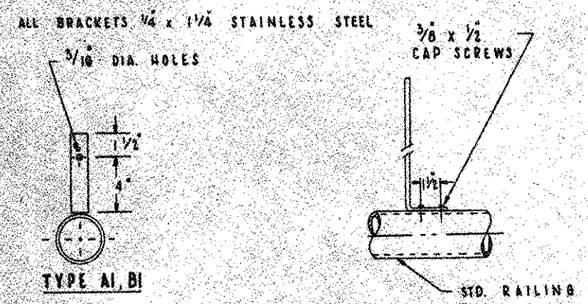
SECTION A-A

LATERAL PLACEMENT OF DELINEATORS



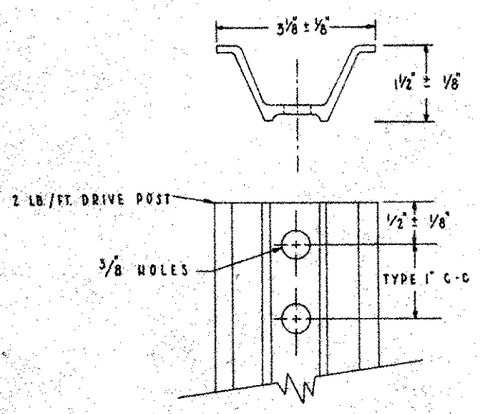
* TABLE

TYPE DELINEATOR	NO GUARDRAIL	GUARDRAIL
SINGLE WHITE	12'-0"	6" Outside



TYPE A1, B1

BRIDGE RAIL BRACKET



DELINEATOR POST

NOTES

1. Type A1 or B1 Delineators on the Right of the through Roadway are to be spaced at 200 ft. intervals. *See table on Sheet 2.*
2. Delineators shall be furnished and erected in accordance with supplemental specification No. I-127, (1-15-82).
3. Payment for supports (Drivepost or Bracket) shall be included in the unit price bid per each for "Item I-127 Delineators".

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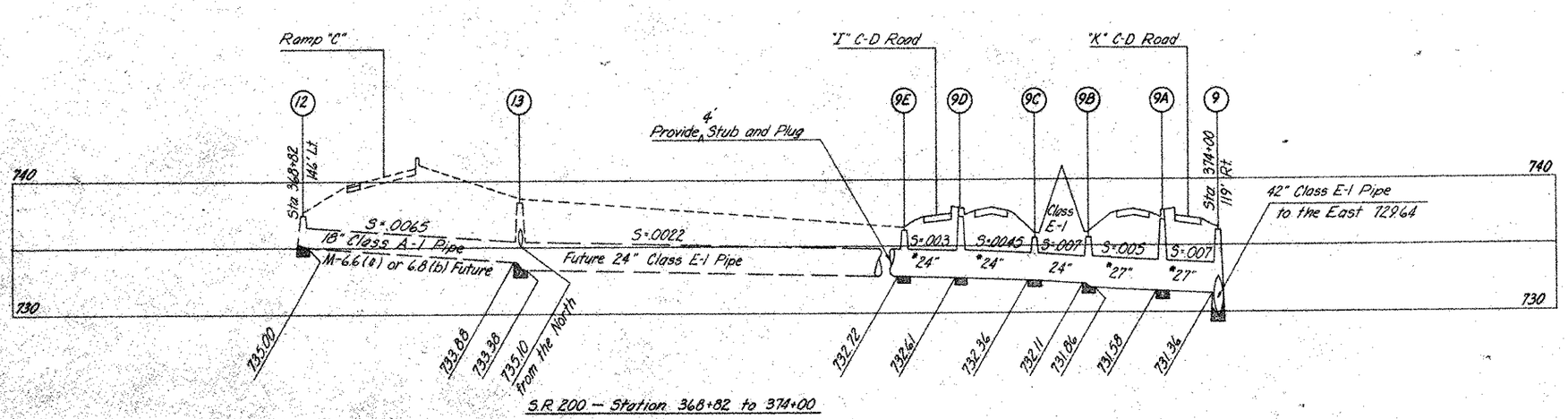
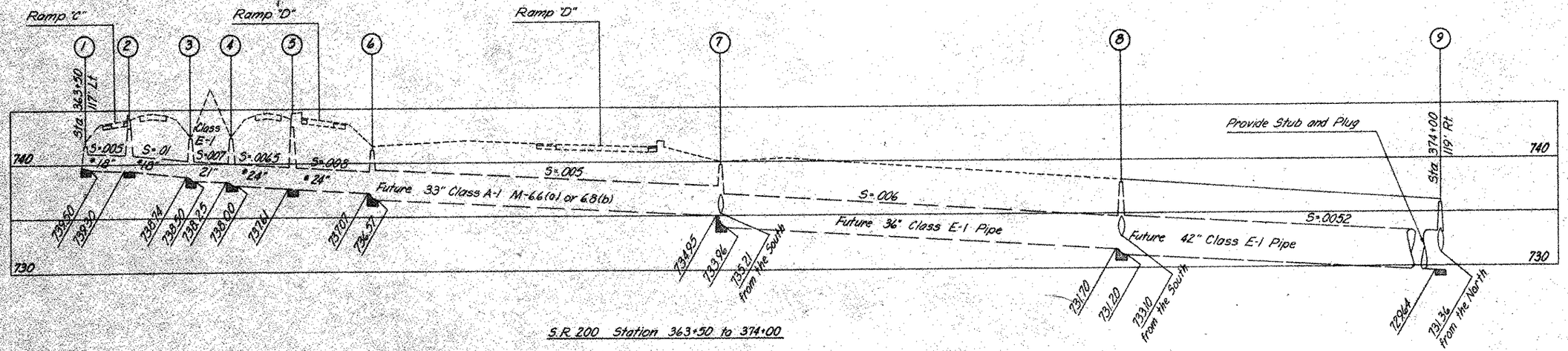
Drainage Structure Table

Ref Nº	Item
12	#5 C.B.
13	#5 C.B.
9E	#5 C.B.
9D	#2-10 Inlet
9C	#8 C.B.
9B	#8 C.B.
9A	#2-10 Inlet
9	#2-4 C.B.
1	#5 C.B.
2	#2-6 Inlet
3	#8 C.B.
4	#8 C.B.
5	#2-6 Inlet
6	#2-3 C.B.
7	#2-4 C.B.
8	#2-4 C.B.
10	#2-5 C.B.
11	#1-A M.H.
E.W	HW-C Headwall

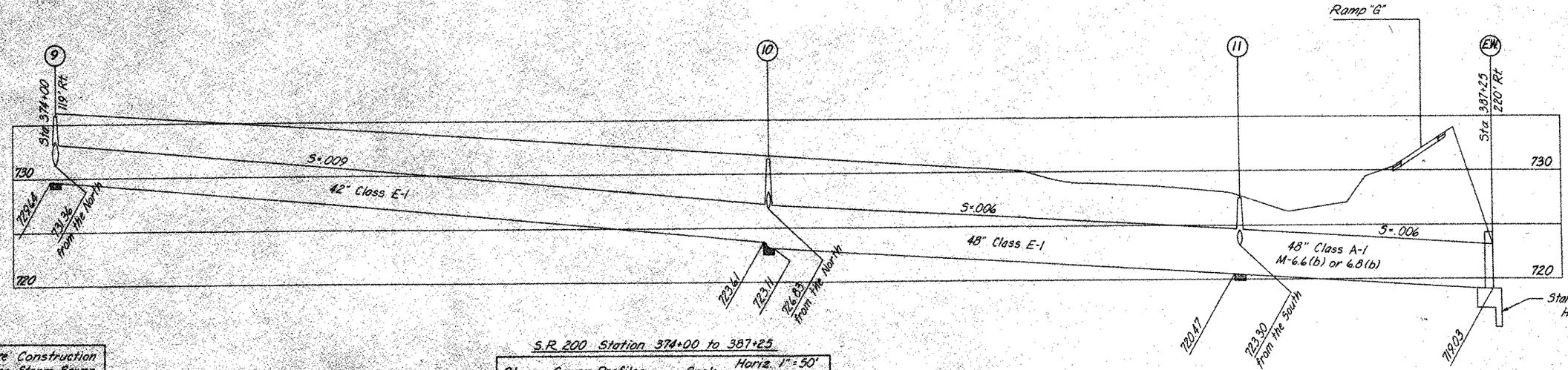


S.R 200 — Station 368+82 to 374+00



Note:
* = Class A-1 Pipe M-6.6(b) or 6.8(b)

S.R 200 Station 363+50 to 374+00



S.R 200 Station 374+00 to 387+25

Storm Sewer Profiles Scale: Horiz. 1"=50' Vert. 1"=5'

Future Construction
Future Storm Sewer
Construction

Storm Sewer Profile

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

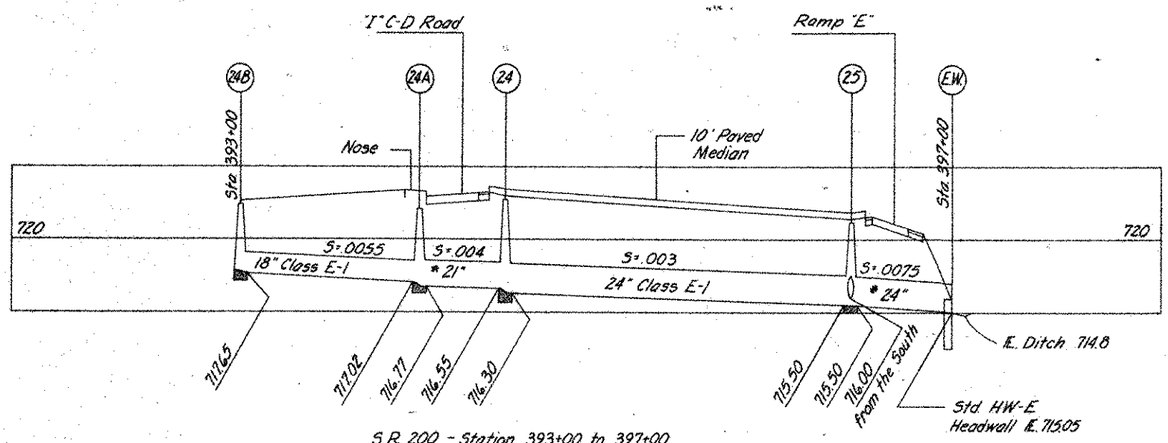
221
333

FRANKLIN COUNTY
FRA. 200 - 8.04

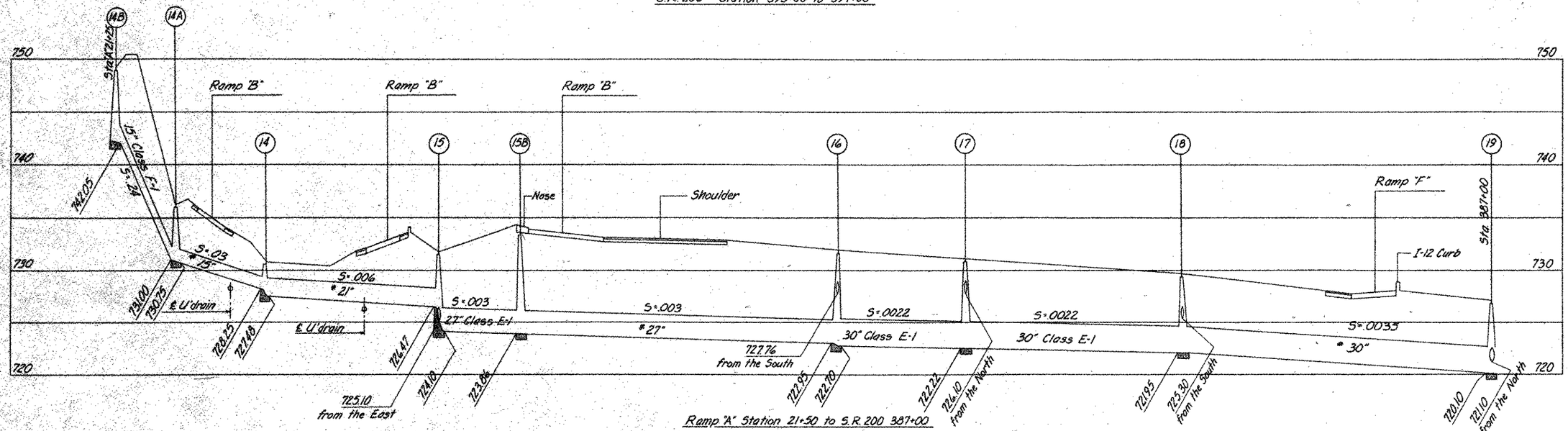
Note:
* = Class A-1 Pipe
M-6.6(a) or 6.8(b)

Drainage Structure Table

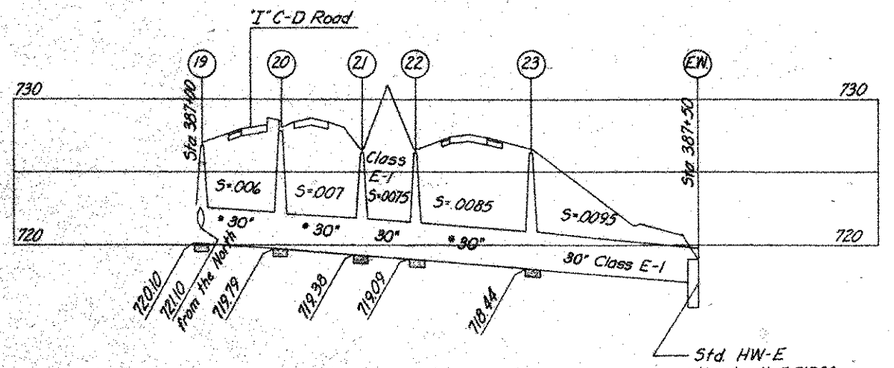
Ref. No	Item
24B	*5 C.B.
24A	*2-6 Inlet
24	*2-10 Inlet
25	*2-10 Inlet
E.W.	HW-E Headwall
14B	*5 C.B.
14A	*5 C.B.
14	*5 C.B.
15	*5 C.B.
15B	*3 Inlet M.H.
16	*5 C.B.
17	*5 C.B.
18	*5 C.B.
19	*5 C.B.
20	*5 C.B.
21	*8 C.B.
22	*8 C.B.
23	*5 C.B.
E.W.	HW-E Headwall



S.R. 200 - Station 393+00 to 397+00



Ramp "A" Station 21+50 to S.R. 200 387+00



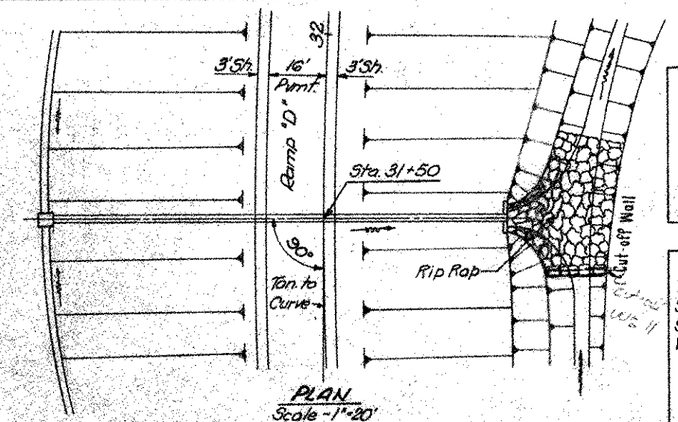
S.R. 200 - Station 387+00 to 387+50

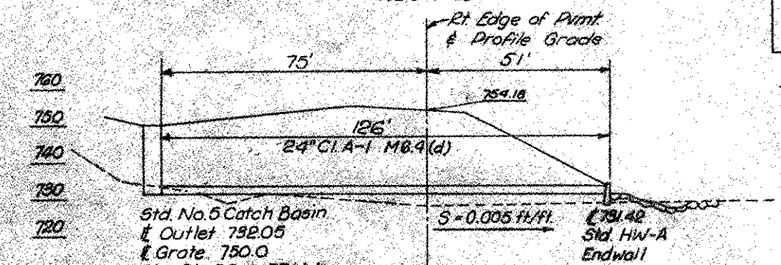
Storm Sewer Profiles Scale: Horiz. 1" = 50'
Vert. 1" = 5'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

222
933

FRANKLIN COUNTY FRA-200-8.04





ESTIMATED QUANTITIES

I-1	24" Class A-1 Pipe M 6.4(d)	126 L.F.
I-2	Masonry - Class "C"	5.4 C.Y.
I-10	Rip Rap	107 S.Y.
I-8	No. 5 Catch Basin	1

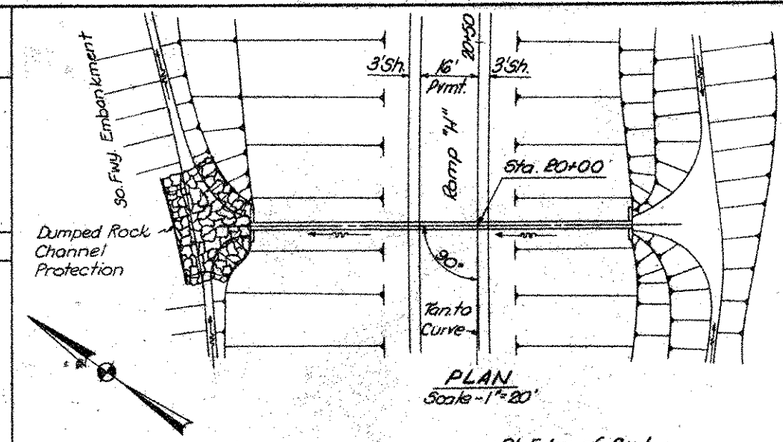
CULVERT DATA

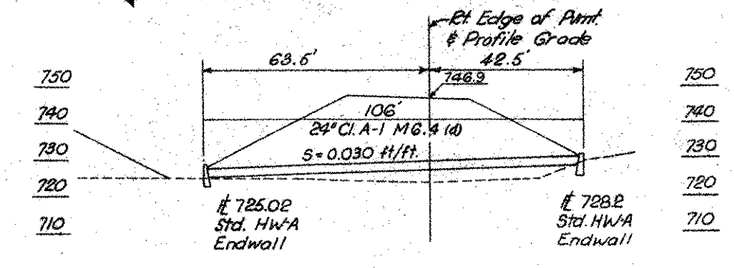
Type - Corrugated Metal Pipe Culvert
Size - 24" Dia.
Skew - 0°
Work Required - Construct Culvert as shown on Plan with a std. No. 5 C. Basin at inlet and a std. HW-A endwall at outlet together with 6" reinforced concrete "Rip Rap" at outlet.

Note:
For details not shown see Std. Dwg. I-1 and Std. Dwg. HW-A

Area = 4.6 Acres
Qso = 12 cfs

CULVERT SECTION STA. 31+50 RAMP "D"





ESTIMATED QUANTITIES

I-1	24" Class A-1 Pipe M 6.4 (d)	106 L.F.
I-2	Masonry - Class "C"	10.8 C.Y.
I-10	Dumped Rock Channel Protection	40 C.Y.

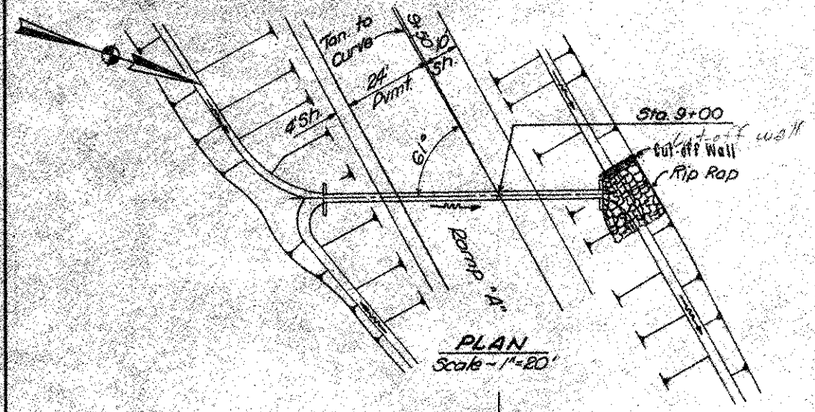
CULVERT DATA

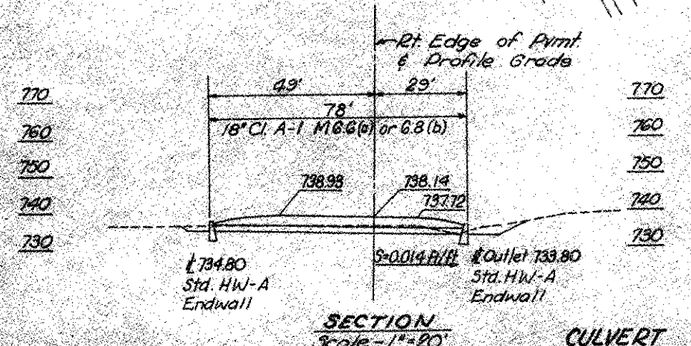
Type - Corrugated Metal Pipe Culvert.
Size - 24" dia.
Skew - 0°
Work Required - Construct culvert as shown on Plan after partially completing Embankment as per Std. Specifications. Provide dumped rock channel protection, 24" deep at outlet as shown.

Note:
For details not shown see Std. Dwg. I-1 and Std. Dwg. HW-A

Area = 11.0 Acres
Qso = 26 cfs

CULVERT SECTION STA. 80+00 RAMP "H"





ESTIMATED QUANTITIES

I-1	18" Class A-1 Pipe M6.6(a) or 6.8(b)	78 L.F.
I-2	Masonry - Class "C"	8 C.Y.
I-10	Rip Rap	35 S.Y.

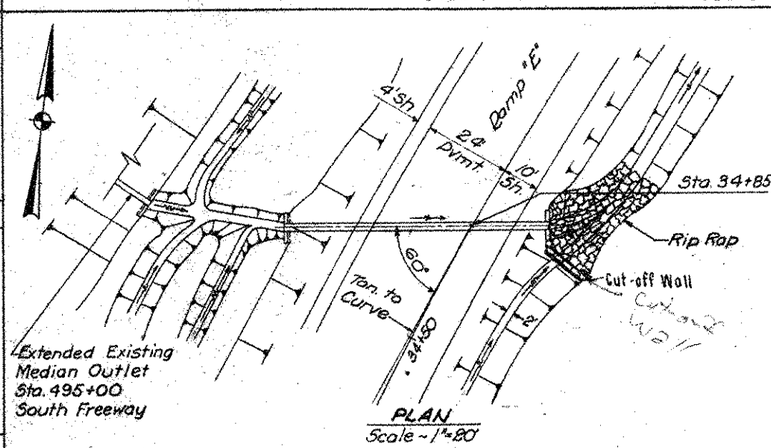
CULVERT DATA

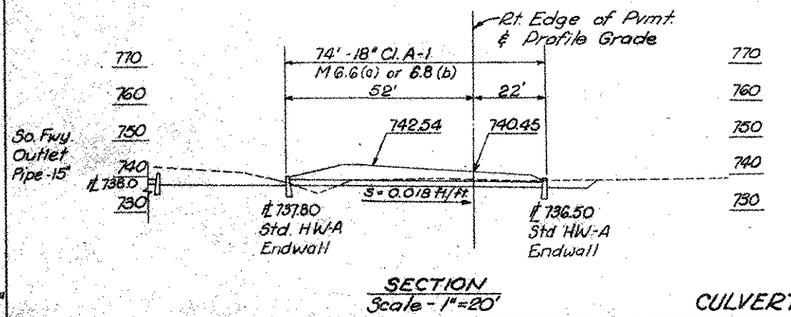
Type - Reinforced Concrete or Extra Strength Vitrified Pipe
Size - 18" dia.
Skew - 29°
Work Required - Construct Culvert as shown on Plan with 2 Std. HW-B Endwalls and 6" reinforced concrete "Rip Rap" at outlet.

Note:
For details not shown see Std. Dwg. I-1 and Std. Dwg. HW-A

Area = 5.7 Acres
Qso = 11.5 cfs

CULVERT SECTION STA. 9+00 RAMP "A"





ESTIMATED QUANTITIES

I-1	18" Class A-1 Pipe M 6.6(a) or 6.8(b)	74 L.F.
I-2	Masonry - Class "C"	6.6 C.Y.
I-10	Rip Rap	50 S.Y.

CULVERT DATA

Type - Reinforced Concrete or Extra Strength Vitrified Pipe.
Size - 18" dia.
Skew - 30°
Work Required - Construct culvert as shown on Plan with a Std. HW-A endwall at inlet and a Std. HW-B endwall at outlet together with 6" reinforced concrete "Rip Rap" at outlet.

Note:
For details not shown see Std. Dwg. I-1 and Std. Dwg. HW-A

Area = 4.4 Acres
Qso = 13.4 cfs

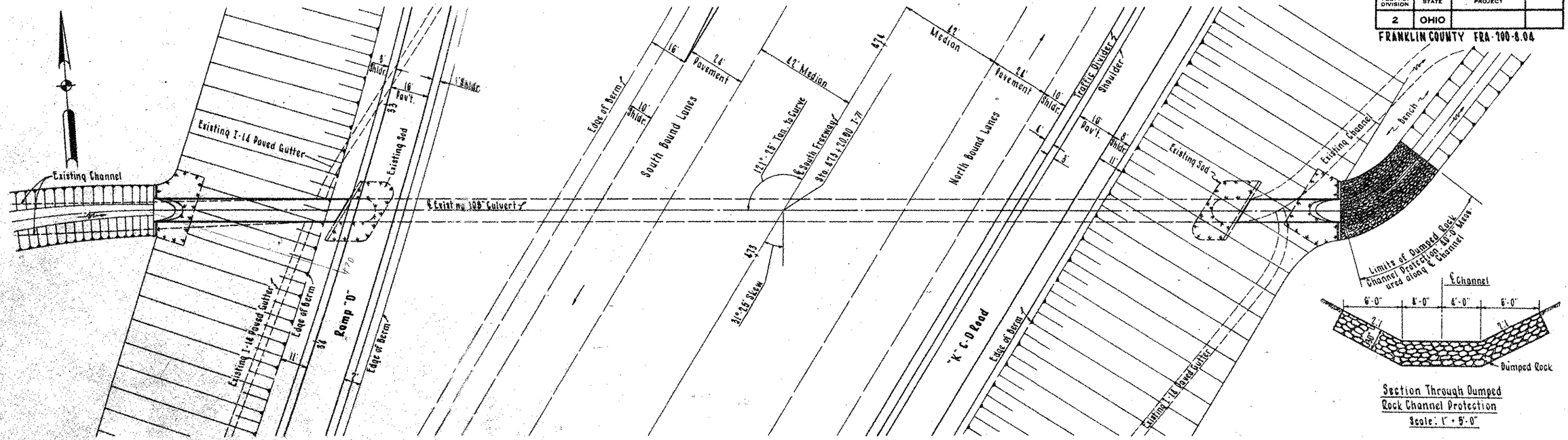
CULVERT SECTION STA. 34+85 RAMP "E"

Culvert Sections at Ramps "A", "D", "E" & "H"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

223
358

FRANKLIN COUNTY FRA-100-8.04



Section Through Dumped Rock Channel Protection

Scale: 1" = 5'-0"

Plan

Scale: 1" = 20'-0"

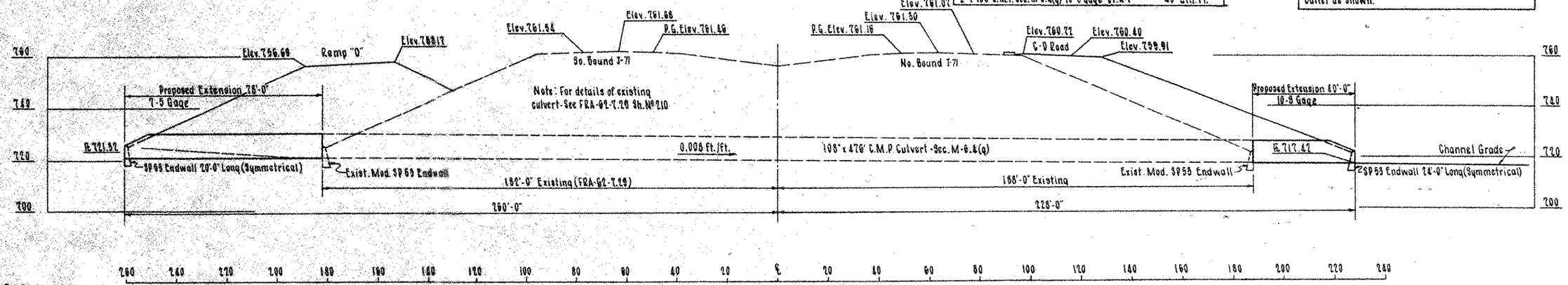
Area = 1529 Acres
Q50 = 605 c.f.s.

- ESTIMATED QUANTITIES -

I-1 108" C.M.P. Sec. M-6.4(g)	
7-5 gage Class A-1	78 Lin. Ft.
I-2 Masonry Class "E"	15 Cu. Yds.
I-10 Dumped Rock Channel Protection	78 Cu. Yds.
L-10 Sodding as per plan	65 Sq. Yds.
E-17 Removal of Pipe over 16"	12 Lin. Ft.
I-1 108" C.M.P. Sec. M-6.4(g) 10-5 Gage Cl. A-1	40 Lin. Ft.

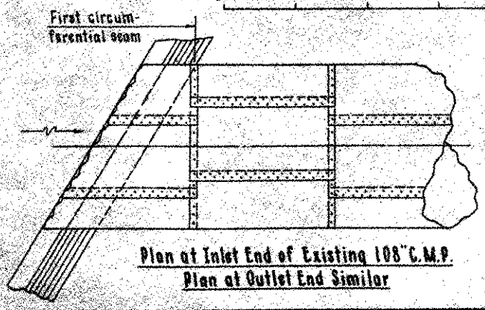
- CULVERT DATA -

Type: Sectional Corrugated Metal Pipe
Size: 108" x 118 Lin. Ft. (Extension)
Skew: 31°-25'
Work Required: Extend on both ends of existing pipe culvert, with SP 53 Endwalls. Place sod collar around endwalls and Dumped Rock Channel Protection at outlet as shown.



Section on ℄ Culvert

Scale: 1" = 20'-0"



Plan at Inlet End of Existing 108" C.M.P.
Plan at Outlet End Similar

"Item E-17 Pipe removed for Re-use or Storage"
Remove the sectional plates which constitute the skewed ends of the existing pipe. Although the limit of such removal may be the first circumferential seam, the actual extent of removal will be determined by the Field Engineer. The pipe is to be extended at each end to the lengths shown, using the method of construction and assembly prescribed under Section M-6.4(g).

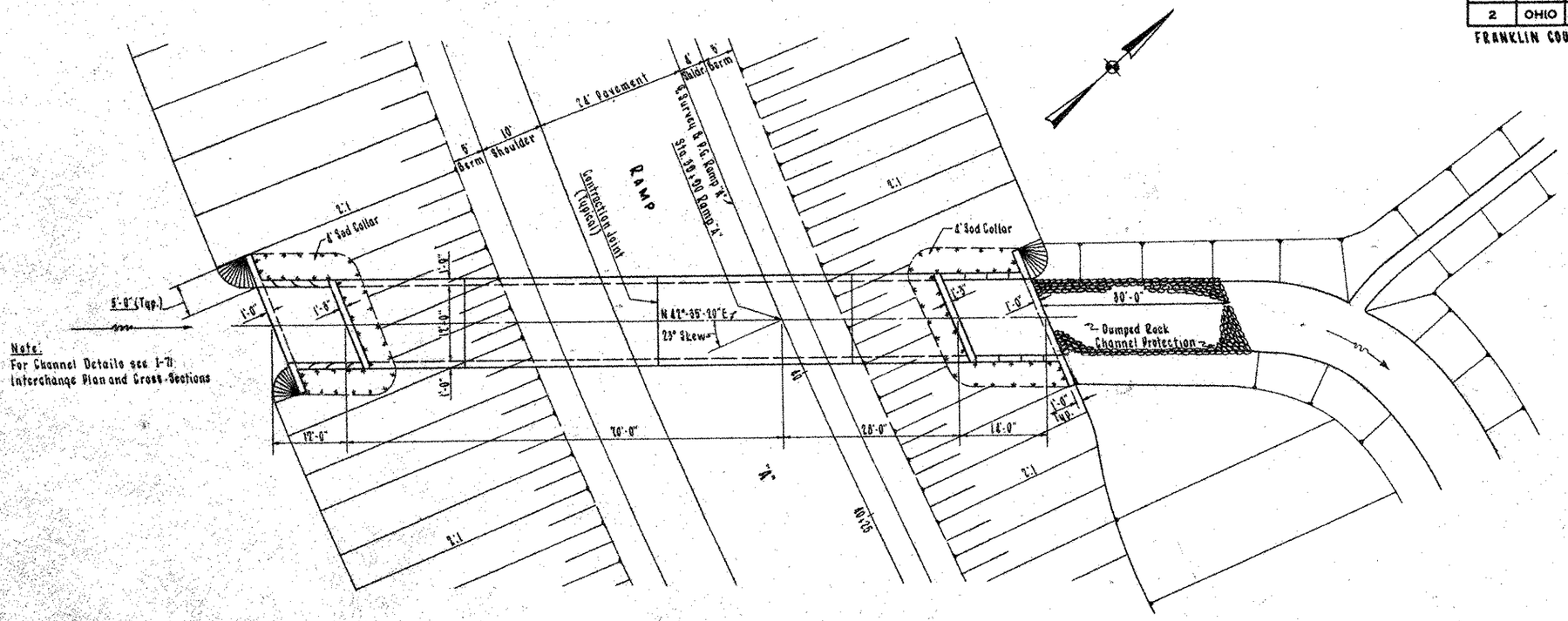
Notes:
For details not shown see Std Dwg. I-1 and Std Dwg. SP-53

Culvert at So. Freeway Sta. 473+20.90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

224
333

FRANKLIN COUNTY FRA-700-8.04



Note:
For Channel Details see I-11
Interchange Plan and Cross-Sections

PLAN

Scale: 1" = 10'

-ESTIMATED QUANTITIES-

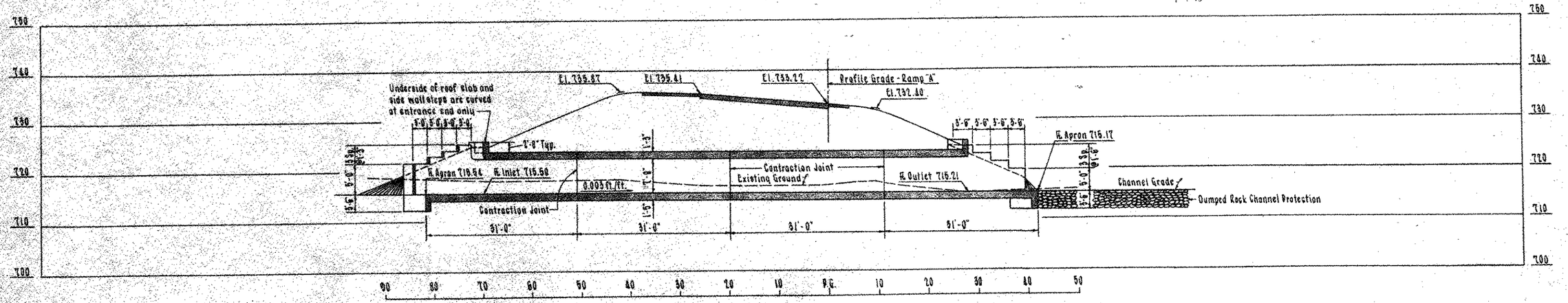
E-2 Excavation for Structures	250 Cu. Yds.
S-1 Concrete for Structures Class "C"	223 Cu. Yds.
S-2 Reinforcing Steel	34,900 Lbs.
L-10 Sodding as per plan	45 Sq. Yds.
I-10 Dumped Rock Channel Protection	47 Cu. Yds.

Area = 2.53 Sq. Mi.
Qso = 900 c.f.s.

-CULVERT DATA-

Type: Box Culvert (Use Std. Dwg. LBC-45 Rev 9-18-67)
Size: 12'-0" x 7'-0" x 98'-0" Long
Work Required: Construct a Box Culvert and place sod as shown on plan.

FRA-2705-0284 R



Section on ℄ Culvert

Scale: 1" = 10'-0"

Culvert at Sta. 39+98 Ramp "A"

FRANKLIN COUNTY FRA-200-8.04

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

225 / 333

SECTION A-A

SECTION B-B

HALF PLAN

HALF SECTIONAL-PLAN

PANEL 1

PANEL 2

PANEL 3

PANEL 4

Reinforcement details in opposite Wingwall are similar

Reinforcement details in opposite Wingwall are similar

HALF SECTIONAL ELEVATION ON ℄

HALF ELEVATION

TYPICAL HALF-SECTION

TYPICAL DETAIL – TURN-BACK WINGS

TYPICAL HEADWALL DETAILS

TYPICAL DETAIL – CONTRACTION JOINT

SECTION C-C

Notes:

1. Reference: Standard Drawing No. BSC-45 (Rev. 9-18-67) Sheets 1 & 2
2. Concrete shall be Class "C"
3. Underside of roof slab and Sidewall steps are curved at entrance end only.

Legend: IF : Inner Face; OF : Outer Face; EF : Each Face; NS: Near Side FS: Far Side

Mark	No. of Bars	Length	B A R Remarks
401	77	13'-0"	Straight
402	100	20'-1"	Bend
403	4	141'-8"	Straight
404	8	22'-7"	Straight
405	30	3'-9"	Bend
406	20	8'-0"	Straight
407	14	5'-0"	Bend
408	14	5'-0"	Bend
409	14	5'-0"	Bend
410	14	6'-0"	Bend
501	10	18'-6" Av.	Str. Each bar varies from 15'-0" to 21'-0" in 6" intervals.
502	9	18'-6" Av.	Str. Each bar varies from 15'-10" to 21'-2" in 6" intervals.
503	10	16'-6" Av.	Str. Each bar varies from 13'-0" to 19'-0" in 6" intervals.
504	9	16'-6" Av.	Str. Each bar varies from 13'-10" to 19'-2" in 6" intervals.
505	100	30'-6"	Straight

Mark	No. of Bars	Length	R Remarks
506	18	30'-7" Av.	Str. 2 Gr. of 9 bars ea. Each Gr. Varies from 27'-0" to 33'-3" in 6" intervals
507	20	30'-7" Av.	Str. 2 Gr. of 10 bars ea. Each Gr. Varies from 27'-7" to 33'-7" in 6" intervals
508	88	4'-7"	Bend
509	101	8'-7"	Bend
510	78	8'-0"	Straight
511	1	8'-0"	Straight
512	1	0'-0"	Straight
513	1	4'-5"	Straight
514	1	4'-5"	Straight
515	1	5'-0"	Straight
516	1	5'-7"	Bend
517	1	6'-0"	Straight
518	1	7'-3"	Straight
519	16	4'-3"	Straight
520	8	33'-0"	Straight
521	8	27'-0"	Straight
522	2	30'-0"	Straight
523	2	24'-8"	Straight
524	4	5'-0"	Straight
525	2	29'-8"	Straight

Mark	No. of Bars	Length	S Remarks
526	2	24'-8"	Straight
527	4	9'-0"	Straight
528	12	5'-4"	Bend
529	24	4'-0"	Bend
530	12	6'-10"	Bend
531	24	5'-11"	Bend

Mark	No. of Bars	Length	C Remarks
701	9	19'-0"	Straight
702	9	19'-1"	Bend (Hooked)
801	74	19'-9"	Bend
802	77	13'-0"	Straight
803	18	7'-4" Av.	Str. 2 Gr. of 9 bars ea. Each Gr. Varies from 1'-8" to 13'-0" in 1'-8" intervals
804	16	8'-9" Av.	Bend 2 Gr. of 8 bars ea. Each Gr. Varies from 3'-1" to 14'-5" in 1'-10" inter.
805	96	21'-6"	Bend
806	100	13'-0"	Straight
807	8	16'-9" Av.	Bend 2 Gr. of 4 bars ea. Each Gr. Varies from 6'-9" to 19'-0" in 1'-10" inter.

Mark	No. of Bars	Length	H Remarks
901	74	19'-9"	Bend
902	77	13'-0"	Straight
903	18	7'-4" Av.	Str. 2 Gr. of 9 bars ea. Each Gr. Varies from 1'-8" to 13'-0" in 1'-8" intervals
904	10	8'-9" Av.	Bend 2 Gr. of 5 bars ea. Each Gr. Varies from 3'-1" to 14'-5" in 1'-10" inter.
905	96	21'-6"	Bend
906	100	13'-0"	Straight
907	8	16'-9" Av.	Bend 2 Gr. of 4 bars ea. Each Gr. Varies from 6'-9" to 19'-0" in 1'-10" inter.

Mark	No. of Bars	Length	E Remarks
908	8	5'-0" Av.	Str. 2 Gr. of 4 bars each Each Gr. Varies from 3'-5" to 6'-9" in 1'-10" inter.
909	8	10'-3" Av.	Bend 2 Gr. of 4 bars ea. Each Gr. Varies from 6'-9" to 14'-6" in 1'-10" inter.

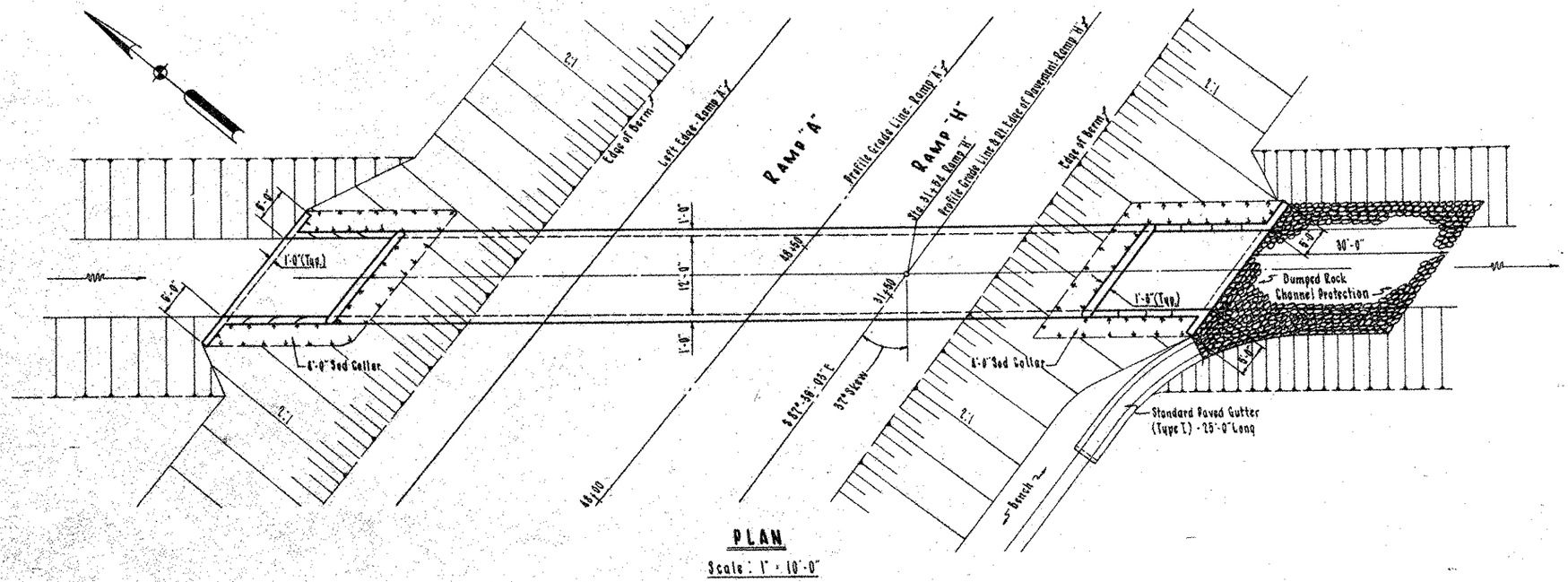
Mark	No. of Bars	Length	U Remarks
405, 508, 509, 515, 904, 907, 909			
405		3'-0"	
508		3'-10"	
509		7'-10"	
515		1'-10"	
904		Var. fr. 1'-8" to 13'-0"	
907		Var. fr. 3'-10" to 14'-6"	
909		Var. fr. 1'-6" to 10'-0"	

Mark	No. of Bars	Length	L Remarks
505, 506, 507, 510, 511, 512, 513, 514, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531			
505		30'-6"	
506		30'-7"	
507		30'-7"	
510		8'-0"	
511		8'-0"	
512		0'-0"	
513		4'-5"	
514		4'-5"	
516		5'-7"	
517		6'-0"	
518		7'-3"	
519		4'-3"	
520		33'-0"	
521		27'-0"	
522		30'-0"	
523		24'-8"	
524		5'-0"	
525		29'-8"	
526		24'-8"	
527		9'-0"	
528		5'-4"	
529		4'-0"	
530		6'-10"	
531		5'-11"	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

226
933

FRANKLIN COUNTY FRA-700-8.04



PLAN

Scale : 1" = 10'-0"

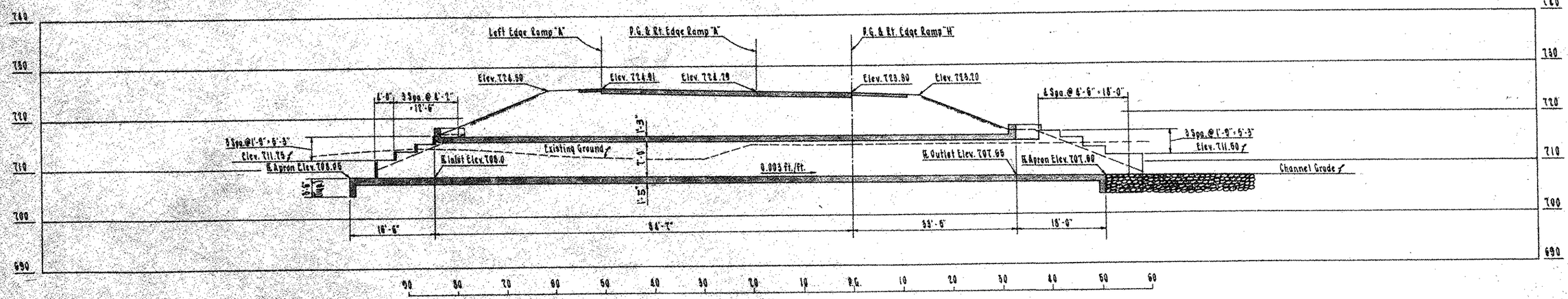
-ESTIMATED QUANTITIES-

E-2 Excavation for Structures	660 Cu. Yds.
S-1 Concrete for Structures Class "C"	250 Cu. Yds.
S-4 Reinforcing Steel	43600 Lbs.
L-10 Sodding as per plan	50 Sq. Yds.
I-10 Dumped Rock Channel Protection	76 Cu. Yds.

Area = 2.72 Sq. Mi.
Q50 = 980 c.f.s.

-CULVERT DATA-

Type: Box Culvert (Std. Dwg. BBC-65 Rev. 9-18-67)
Size: 12'-0" x 7'-0" x 118'-0" Long
Work Required: Construct a Box Culvert and place sod as shown on plan.



Section on ℄ Culvert

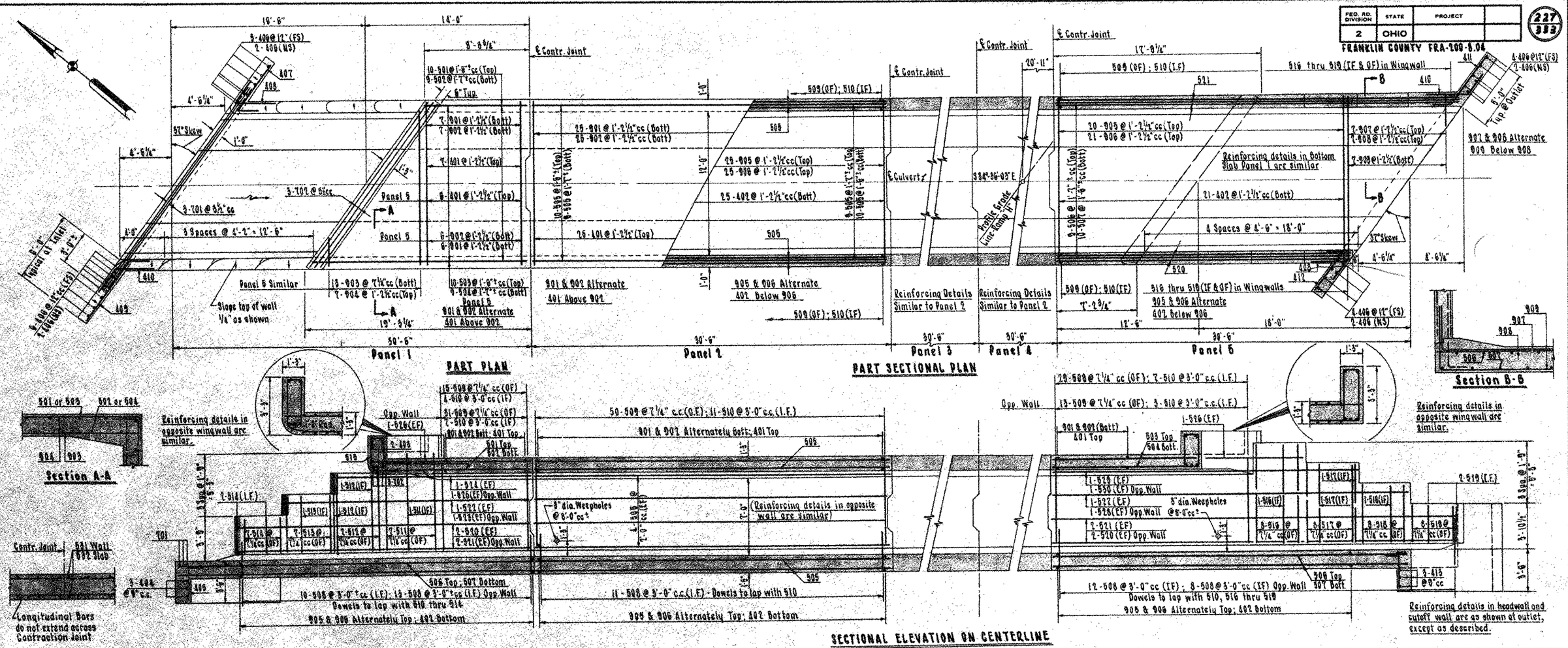
Scale : 1" = 10'-0"

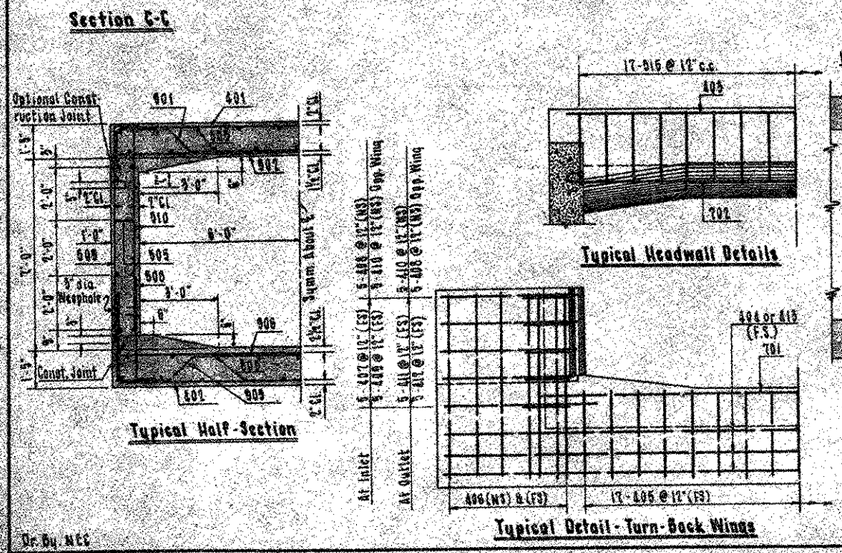
Culvert at Sta. 31+54 - Ramp "H"

FED. AID. DIVISION	STATE	PROJECT	
2	OHIO		

227
313

FRANKLIN COUNTY FRA-200-8.06





BAR SCHEDULE

Mark	No of Bars	Length	Remarks
401	88	13'-6"	Straight
402	110	15'-6"	Bend
403	6	12'-0"	Straight
404	3	16'-6"	Straight
405	34	3'-8"	Bend
406	77	6'-10"	Straight
407	6	5'-6"	Bend
408	10	5'-0"	Bend
409	6	7'-1"	Bend
410	10	8'-0"	Bend
411	5	4'-6"	Bend
412	5	4'-8"	Bend
413	3	24'-8"	Straight
501	10	13'-6" Av.	Str. Each bar varies from 8'-5" to 15'-5" in 1'-0½" intervals
502	9	15'-6" Av.	Str. Each bar varies from 9'-1" to 16'-1" in 1'-1½" intervals
503	10	17'-7" Av.	Str. Each bar varies from 7'-1" to 17'-3" in 1'-1½" intervals
504	9	17'-7" Av.	Str. Each bar varies from 9'-5" to 18'-11" in 1'-1½" intervals
505	192	30'-7"	Straight
506	18	29'-10" Av.	Str. 2 Gr. of 9 bars each Eq. gr. varies from 25'-1" to 34'-7" in 1'-2½" inter.
			Str. 2 Gr. of 10 bars eq.
507	70	28'-10" Av.	Eq. gr. varies from 24'-8" to 34'-11" in 1'-1½" inter.
508	108	6'-7"	Bend, Dowels
509	388	5'-7"	Bend
510	87	6'-6"	Straight
511	18	5'-3"	Bend
512	18	5'-8"	Straight
513	18	4'-9"	Straight
514	18	7'-10"	Straight
515	34	8'-3"	Bend, Stirrups
516	18	8'-3"	Straight
517	20	6'-6"	Straight
518	18	6'-11"	Straight
519	36	5'-7"	Straight
520	6	25'-8"	Straight
521	6	24'-5"	Straight
522	7	23'-2"	Straight
523	7	21'-10"	Straight
524	7	20'-7"	Straight
525	7	19'-4"	Straight
526	6	18'-1"	Straight
527	6	16'-10"	Straight
528	6	15'-7"	Straight
529	6	14'-4"	Straight
530	6	13'-1"	Straight
531	18	5'-3"	Bend
532	18	5'-10"	Bend
533	52	6'-11"	Bend
534	52	6'-11"	Bend
901	88	16'-6"	Bend
902	88	15'-6"	Straight
903	26	8'-6½" Av.	Str. 1 gr. of 13 bars eq. Eq. gr. varies from 5'-8" to 15'-5" in 9" intervals
904	14	9'-11" Av.	Bend. 1 gr. of 7 bars eq. Eq. gr. varies from 9'-1" to 14'-9" in 1'-4½" inter.
905	116	7'-6"	Bend
906	117	15'-6"	Straight
907	14	11'-6" Av.	Bend. 1 gr. of 7 bars eq. Eq. gr. varies from 6'-8" to 16'-6" in 1'-4½" inter.
908	14	8'-6" Av.	Str. 1 gr. of 7 bars eq. Eq. gr. varies from 3'-4" to 12'-10" in 1'-4½" inter.
909	14	11'-8" Av.	Bend. 1 gr. of 7 bars eq. Eq. gr. varies from 6'-8" to 16'-6" in 1'-4½" inter.

Shapes

Varies from 8'-2" to 12'-10" 909
Varies from 4'-8" to 13'-5" 907
Varies from 3'-8" to 13'-4" 904
7'-10" 509
9'-10" 505
5'-0" 405

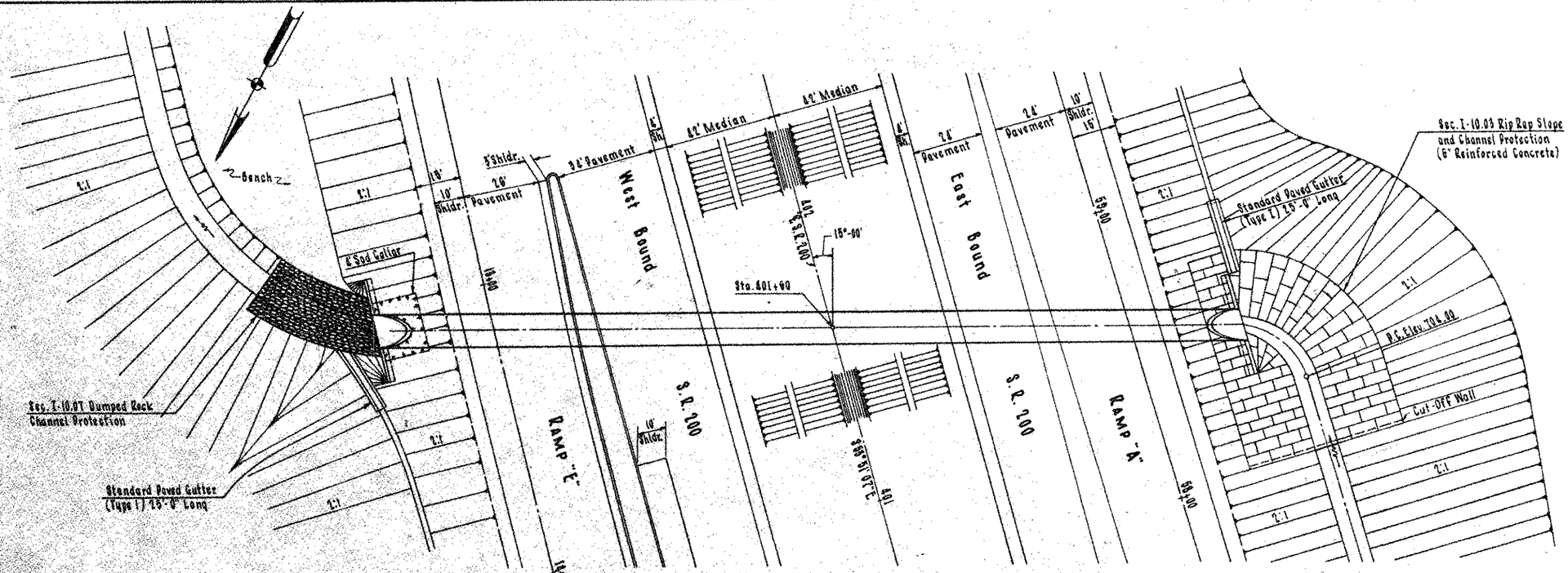
Dr. By MEC

Reinforcement Details - Culvert at Ramp "H" Sta. 31+66

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

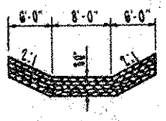
FRANKLIN COUNTY FRA-200-8.04

228
333



PLAN

Scale: 1"=20'



Detail of Dumped Rock Channel Protection

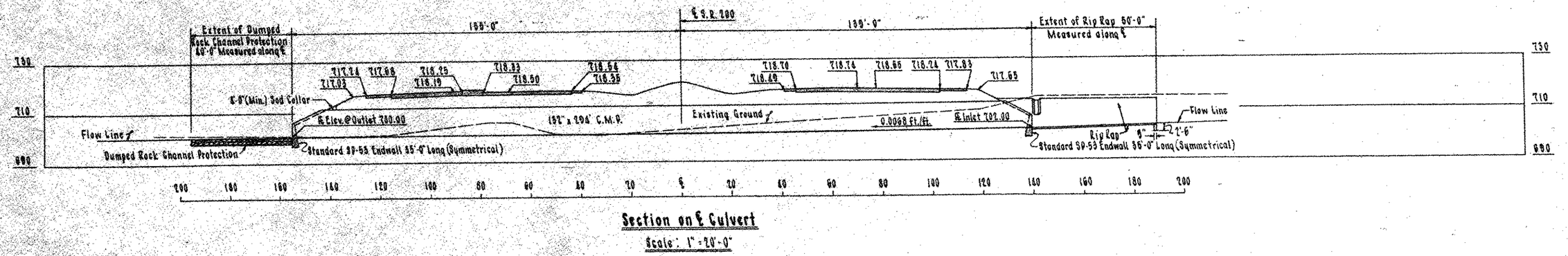
-ESTIMATED QUANTITIES-

1-1 132" dia. Corrugated Metal Pipe (8-7 Gage) Section M-6.1(g) Class A-1	294 Lin. Ft.
I-T Masonry, Class "E"	37 Cu. Yds.
I-10 Rip Rap as per plan	373 Sq. Yds.
I-10 Dumped Rock Channel Protection	74 Cu. Yds.
I-10 Sodding	29 Sq. Yds.

Area = 2.80 Sq. Mi.
Q50 = 1000 c.f.s.

-CULVERT DATA-

Type: Corrugated Metal Pipe
Size: 132" dia. x 294 Lin. Ft.
Work Required: Construct a 132" x 294 Lin. Ft. C.M.P. Beveled & Skewed & place sod as shown on plan at outlet end. At inlet, the Rip Rap to be used shall be 6" Reinforced Concrete (cast in place) to Elev. 715.8. Slopes of 2:1 are to be obtained at all normal or radial cross-sections with no cross-fall in the channel invert. At outlet, Dumped Rock Slope and Channel Protection is to be used as shown on plan to Elev. 703.0.



Section on ℄ Culvert

Scale: 1"=20'-0"

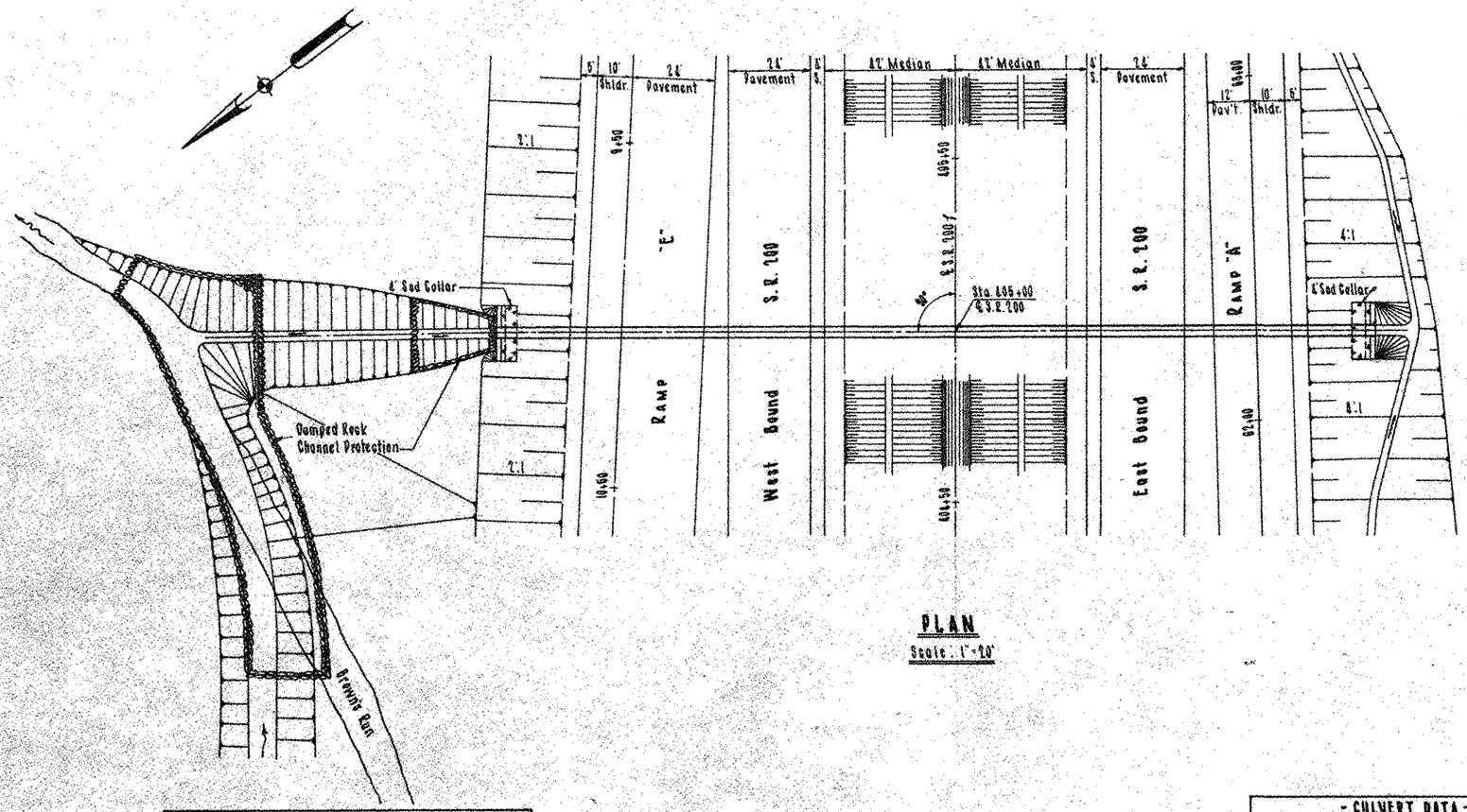
Notes:
(1) For details not shown see Std. Dwg. I-1 and Std. Dwg. SP-53

Culvert at Sta. 401+60 - State Route 200

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

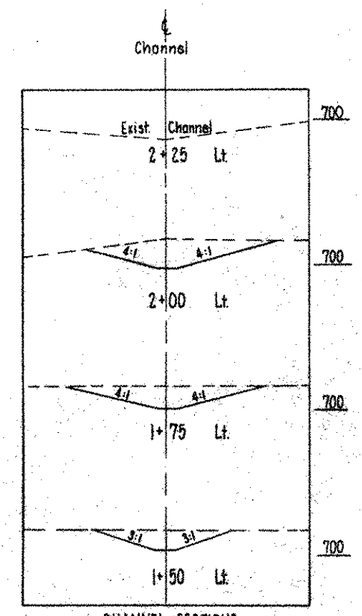
229
333

FRANKLIN COUNTY FRA-700-8.04



PLAN

Scale: 1"=20'



CHANNEL SECTIONS

Scale: 1"=10'

-ESTIMATED QUANTITIES-

1-1 36" dia. Class A-1 Pipe Sec. M-6.6(b) or 6.8(b) O.K.	256 Lin. Ft.
1-2 Masonry Class "C"	16 Cu. Yds.
L-18 Sodding as per plan	15 Sq. Yds.
E-3 Channel Excavation	82 Cu. Yds.
I-10 Dumped Rock Channel Protection	337 Cu. Yds. *

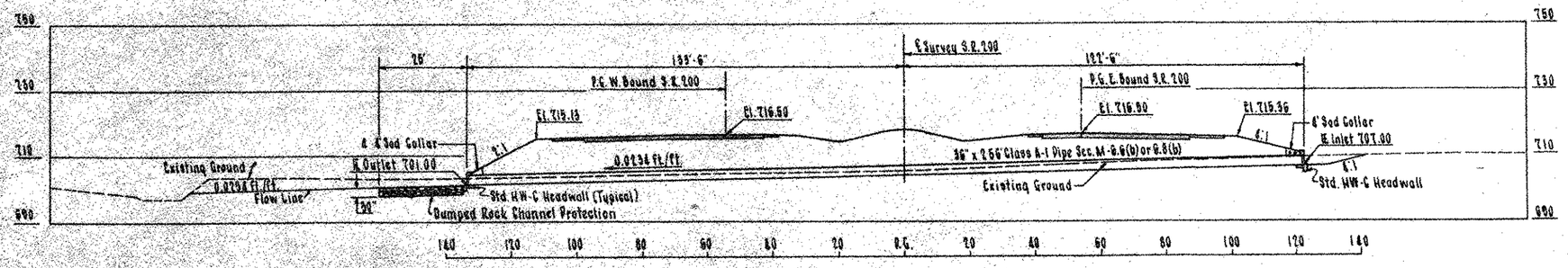
* Includes I-10 from Sta. 404+00 to 405+25.

Area = 25 Acres
Q₂₅ = 85 c.f.s.

-CULVERT DATA-

Type: Reinforced Concrete or Vitrified Sewer Pipe
Size: 36" dia. x 256'-6" Long at 0° Skew
Work Required: Construct a pipe culvert with Standard HW-C Headwalls and sodding left & right as shown. Excavate Outlet Channel & provide protection as shown.

Notes:
(1) For details not shown see Std. Dwg. I-1 and Std. Dwg. HW-C



Section on ℄ Culvert

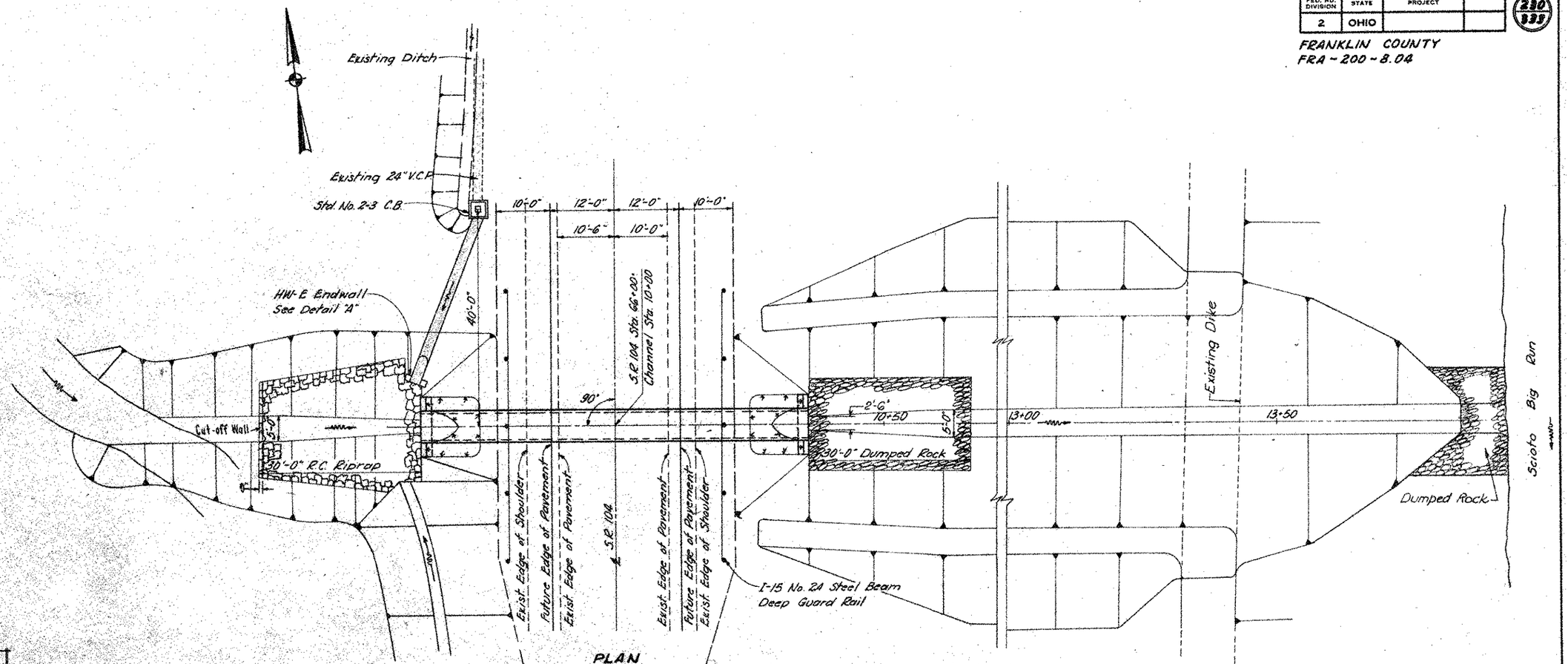
Scale: 1"=20'-0"

Culvert at Sta. 405+00 S.R. 700

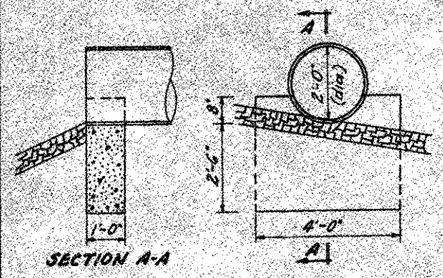
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

210
1335

FRANKLIN COUNTY
FRA-200-8.04



PLAN
Scale - 1" = 10'-0"



SECTION A-A

DETAIL "A"
Scale - 1" = 2'-0"

ESTIMATED QUANTITIES

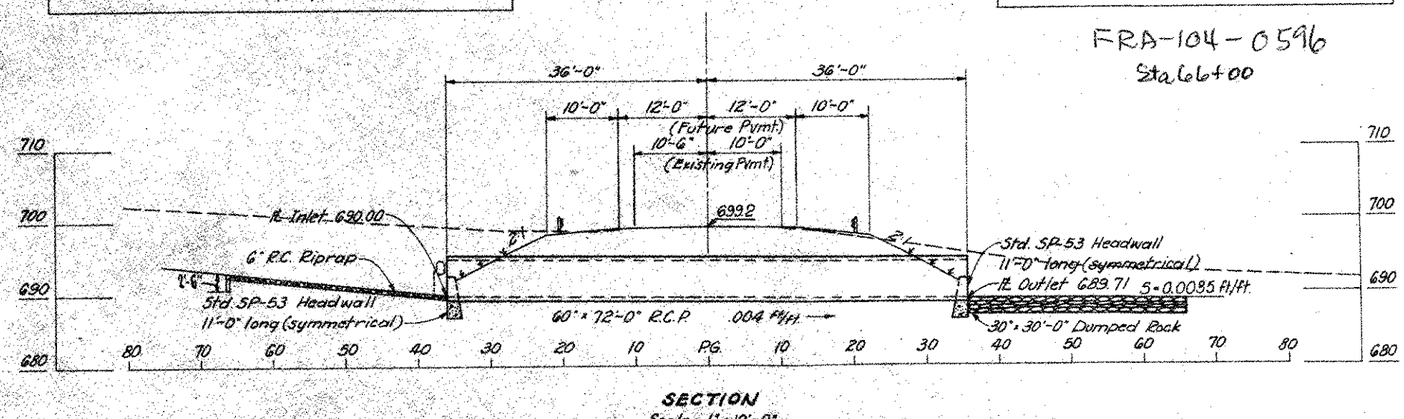
I-1 60" dia. R.C.P. Sec. M-6.6(a) Class A-1	72 L.F.
I-2 Masonry Class "E"	7. C.Y.
E-3 Channel Excavation	758 C.Y.
L-10 Sodding as per plan	80. S.Y.
I-10 Riprap as per plan	75. S.Y.
I-10 Dumped Rock Channel Protection as per plan	36. C.Y.

Area = 0.25 Sq. Mi.
Q 25 = 180 c.f.s.

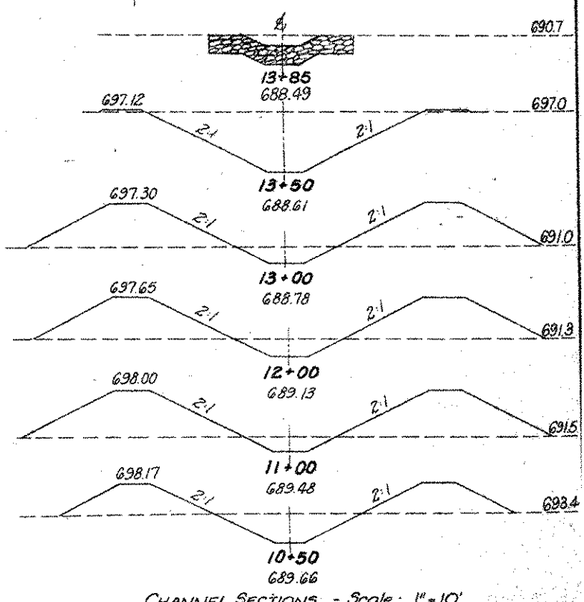
CULVERT DATA

Type: Reinforced Concrete Pipe
Size: 60" ϕ x 72' Lin. Ft.
Work Required: Construct 60" ϕ R.C. Pipe and place sod as shown on plan. Place Riprap at inlet and Dumped rock channel protection at outlet within limits shown on plan.

FRA-104-0596
Sta 66+00



SECTION
Scale - 1" = 10'-0"



CHANNEL SECTIONS - Scale: 1" = 10'

Notes:
(1) For details not shown see Std. Dwg. I-1 and Std. Dwg. SP-53

FED. RD. DIVISION	STATE	PROJECT		231 233
2	OHIO			

FRANKLIN COUNTY FRA-200-8.04

See Sheet No. 232 for Culvert Details.

Cultivated

See Sheet No. 233 for Channel Sections.

Gravel

Brush

Brush

N 77° 05' 30" E

℄ Survey (S&E) S.R. 104

P.T. 59+05.85

Sta. 48+00 Channel = Sta. 54+35 S.R. 104

D=4°

D=7°

Mowing

Brown's Run

Small Trees

Close Upstream End of Existing Channel and Fill Remainder to Elevation 693.0 as Directed

Franklin Development Co. Limited

Small Trees

Lawn

American Aggregates Corporation

Bridge No. 104 0578
Sta. 56+50
Conc. Slab ~ Span 19'
Roadway 24' Loading H15
Extended in 1932 to East
(To be Removed)

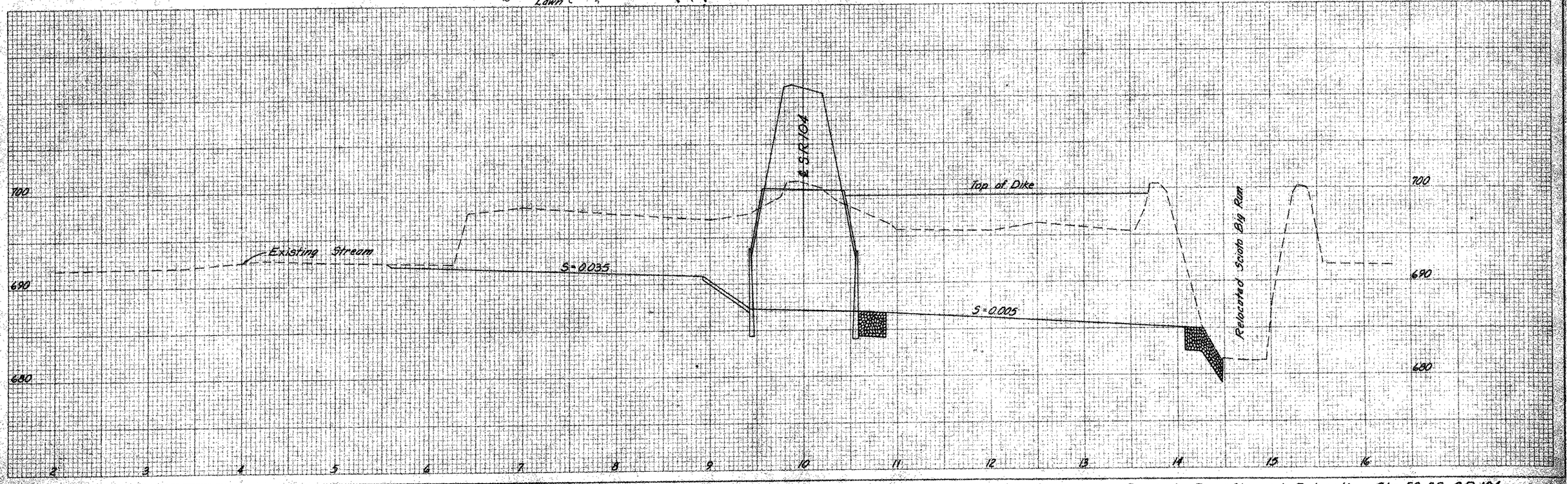
Fill and Grade to Drain as Directed by the Engineer.

Existing Dike

SCIOTO BIG RUN

Existing Dike

Brown's Run

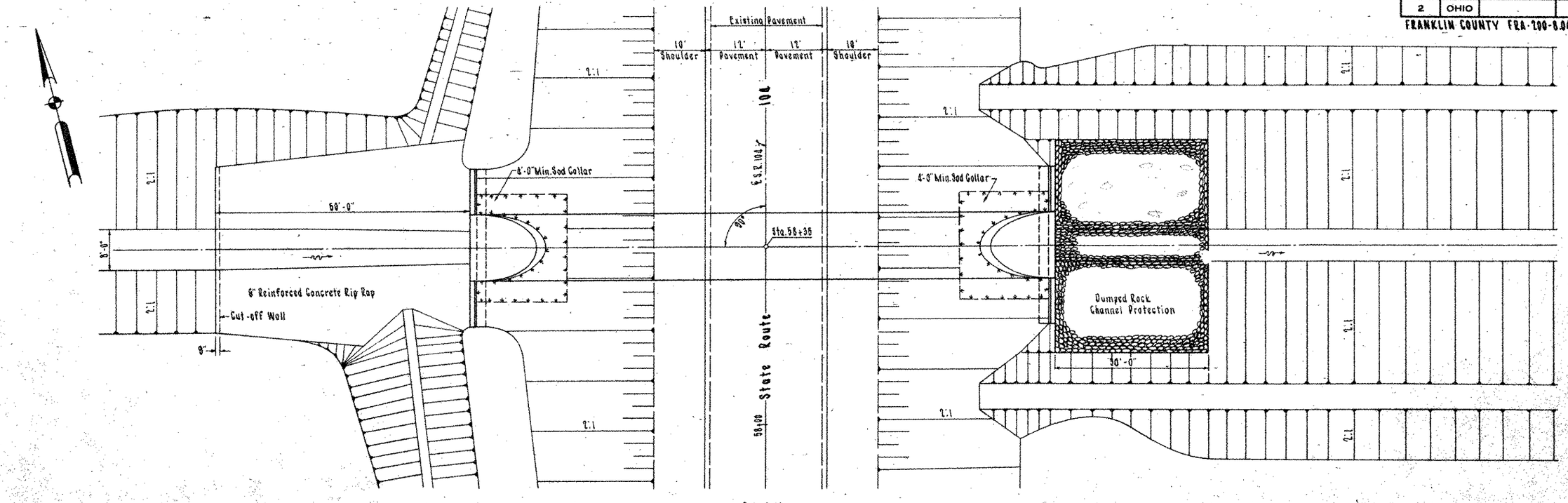


Brown's Run Channel Relocation Sta. 58+36 S.R. 104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

282
233



PLAN

Scale: 1" = 10'

-ESTIMATED QUANTITIES-

I-1 156" dia. Sectional Corrugated Metal Structure Sec. M-6.1(g)(5-3 gage) Class A-1	116	Lin. Ft.
I-2 Masonry Class "E"	37	Cu. Yds.
I-10 Rip Rap as per plan	225	Sq. Yds.
I-10 Dumped Rock Channel Protection	153	Cu. Yds.
L-10 Sodding as per plan	22	Sq. Yds.
E-3 Channel Excavation	5928	Cu. Yds.

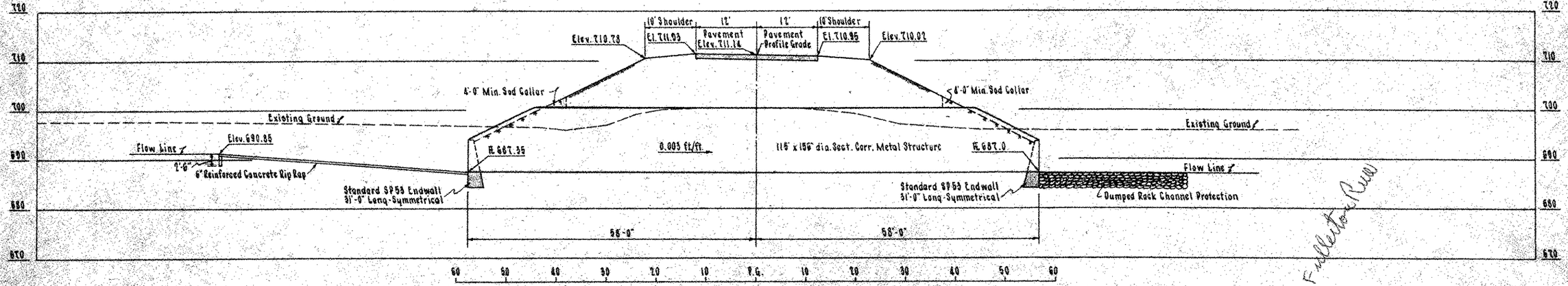
Note: Part-width construction will be permitted as directed by the Engineer where necessary for the maintenance of traffic.

Area = 3.05 Sq. Mi.
Q_{15} = 990 c.f.s.
Q_{50} = 1085 c.f.s.

-CULVERT DATA-

Type: Sectional Corrugated Metal Structure (Beveled)
Size: 156" dia. x 116 Lin. Ft.
Work Required: Construct a 156" dia. Corrugated Metal Pipe and place sod as shown on plan. Place Rip Rap at Inlet and Dumped Rock Channel Protection at Outlet within the limits shown on plan.

Note:
(1) For channel details and sections see sheet No's. 231 & 233
(2) For details not shown see Std Dwg. I-1 and Std Dwg. SP-53



Section on ℄ Culvert

Scale: 1" = 10'-0"

Fullerton Rd.

FRA-104-0582

Culvert at Sta. 58+35 State Route 104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

233
233

FRANKLIN COUNTY
FRA - 200 - 8.04

Proposed Grade on S.R.104

700

For Culvert Details
See Sheet No 451

690

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	494			250	0
	89			151	0
	1133			491	0
	115			750	0
	1278			516	0
	115			750	0
	1853			644	0
	115			90	0

10+00
1983

9+40

9+00
4976

8+00
4976

7+00
4984

5+35
4984

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	120			256	75
	667			469	181
	120			250	120
	1122			900	389
	82			236	90
	224			240	72
	79			283	65
	224			236	37
	82			226	14
	228			209	13

12+50

12+00

11+00

10+75

10+50

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	91			20	0
	286			137	0
	115			276	0
	322			415	0
	117			620	0
	331			447	44
	121			345	95
	669			547	168
	120			246	86
	667			465	149

14+25

14+00

13+75

13+50

13+00

699.4

NOTE:
For Channel Alignment & Profile See Sheet No 452

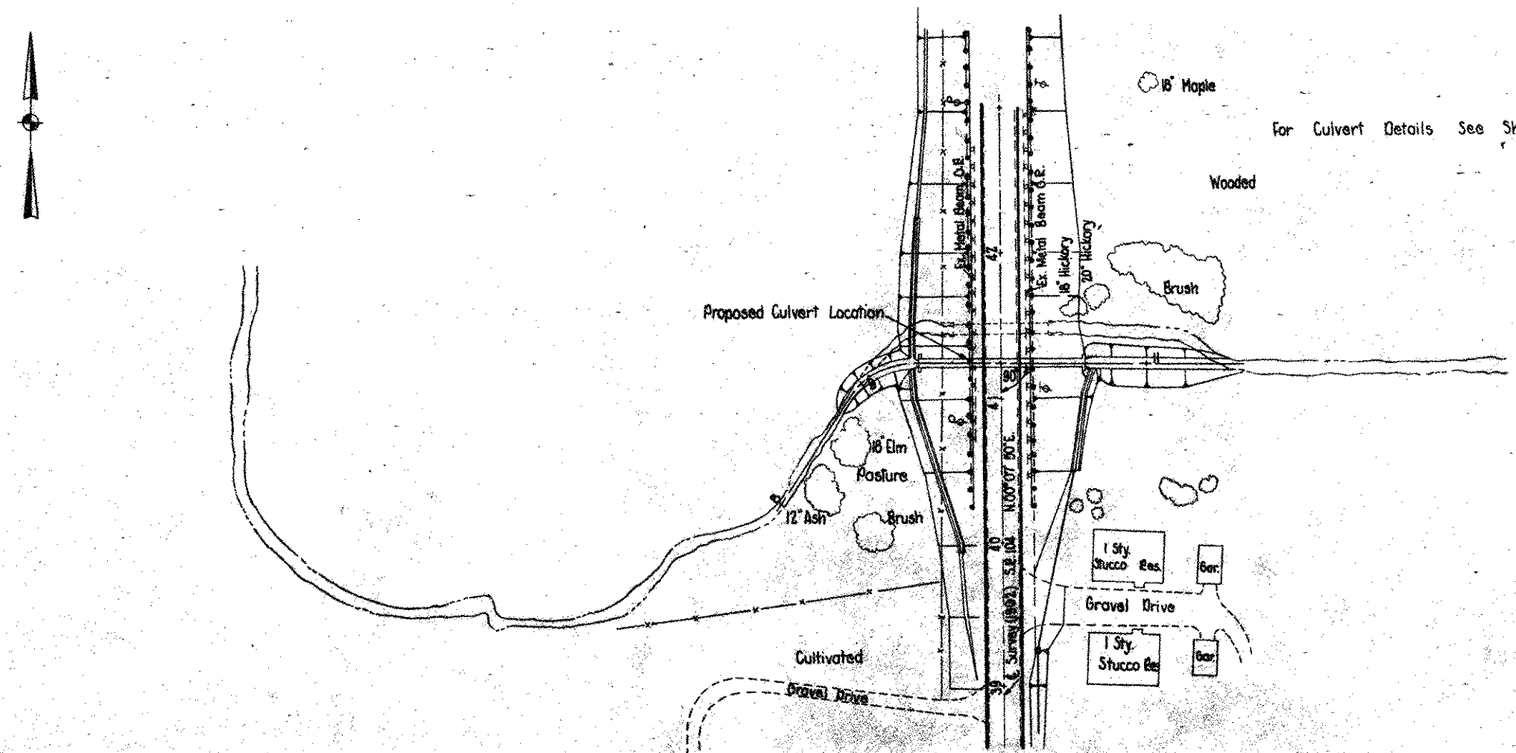
50 40 30 20 10 0 10 20 30 40 50 40 30 20 10 0 10 20 30 40 50 40 30 20 10 0 10 20 30 40 50

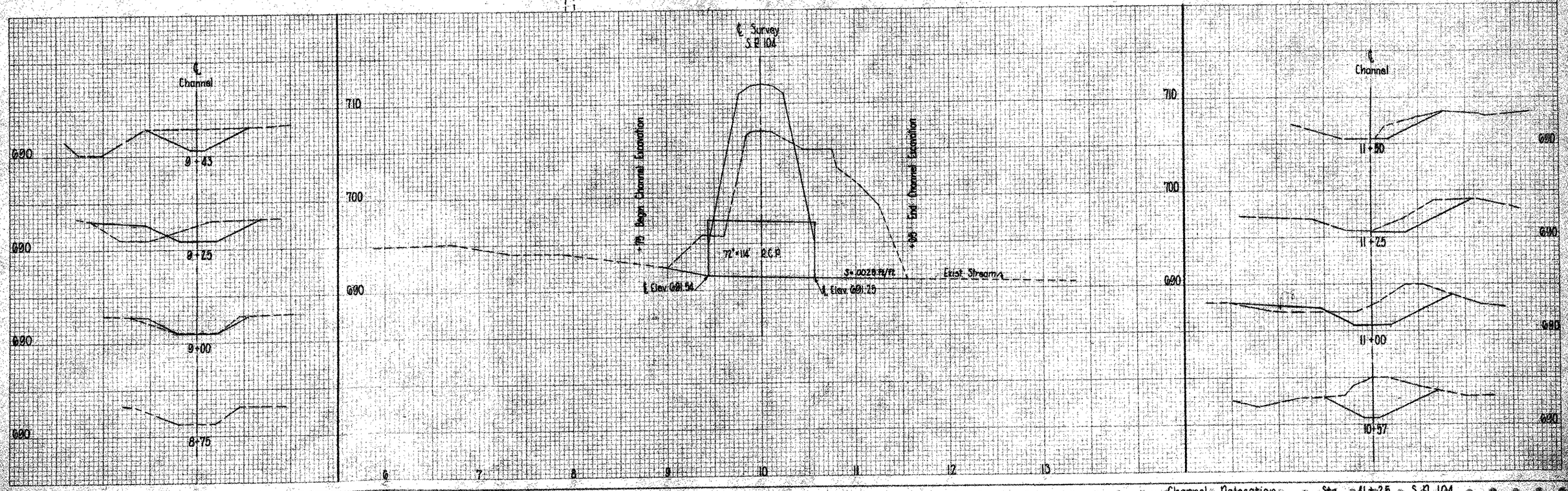
Channel Sections Brown's Run Sta 58+35 S.R.104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

235
237

FRANKLIN COUNTY
FRA - 200 - 8.04



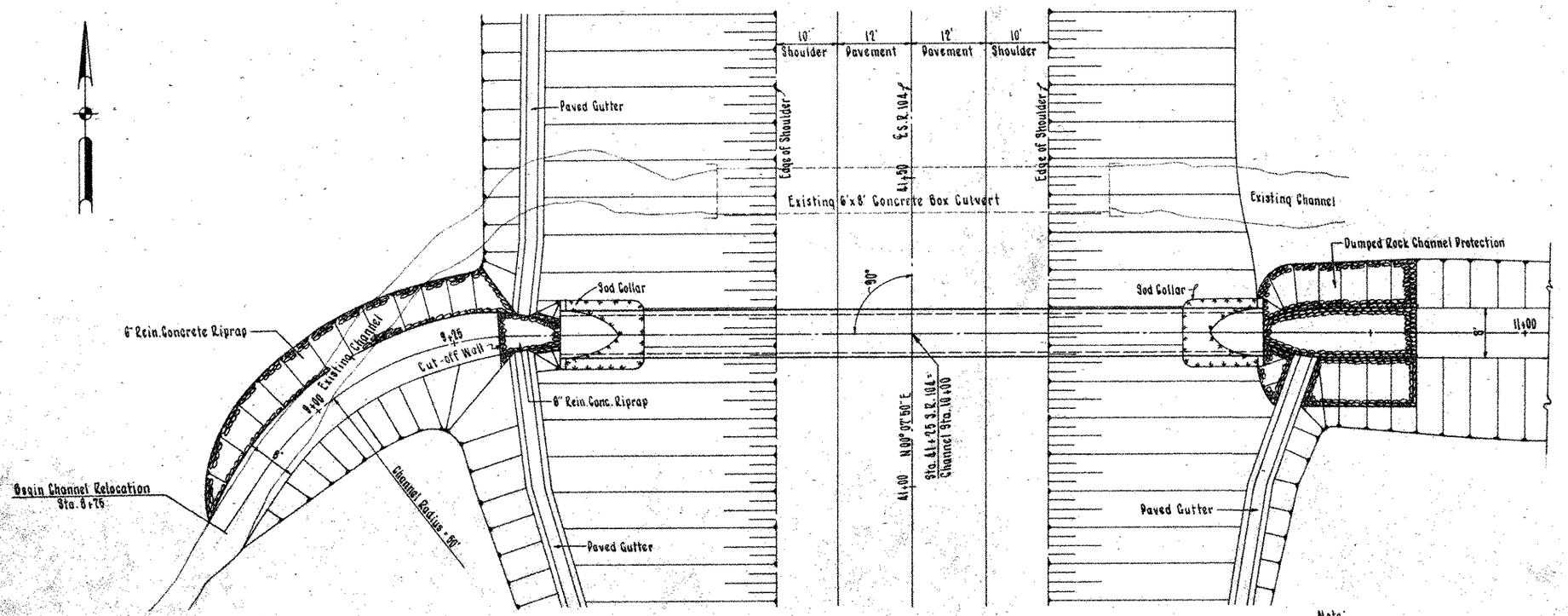


Channel Relocation Sta. 41+25 S.R. 104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

235
333

FRANKLIN COUNTY FRA-700-8.04



Note:
(1) For Channel Details & Cross-Sections - See Sheet № 234
(2) For details not shown see Std. Dwg. I-1 and Std. Dwg. SP-53

Note:
For removal of existing 6'x8' concrete box culvert see Reference No. 5-R, Sheet No. 197

FRA-104-0549

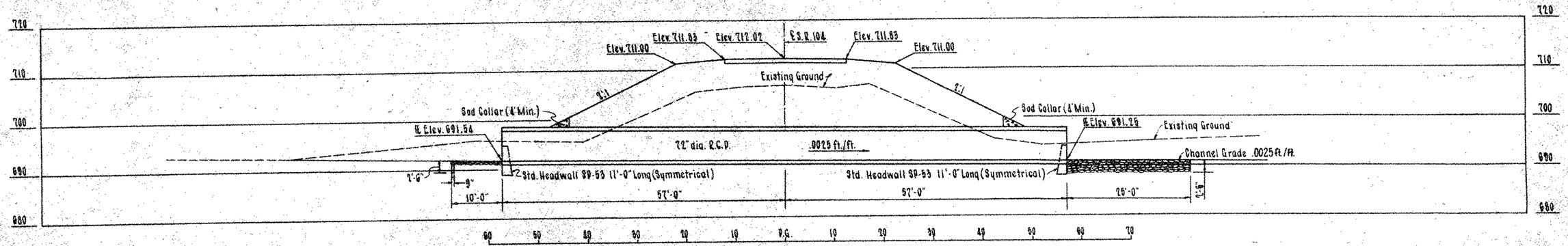
-ESTIMATED QUANTITIES-

I-1 72" dia. R.C.P. Sec. M-60(b) Class A-1	114 Lin. Ft.
I-2 Masonry Class "E"	5.5 Cu. Yds.
I-10 Riprap	52 Sq. Yds.
I-10 Dumped Rock Channel Protection	58 Cu. Yds.
E-3 Channel Excavation	350 Cu. Yds.
L-10 Seeding as per plan	7 Sq. Yds.

Area = 490 Acres
Q_{25} = 380 C.F.S.

-CULVERT DATA-

Type: Rein. Concrete Culvert Pipe
Size: 72" x 114 Lin. Ft.
Skew: 0°-00'
Work Required: Construct a 72" dia. Pipe Culvert with Std. SP-53 Endwalls and Sod Collars as shown on plan. Place Dumped Rock Channel Protection at outlet and Riprap Slope and Channel Paving at Inlet as per plan.



Section on ℄ Culvert

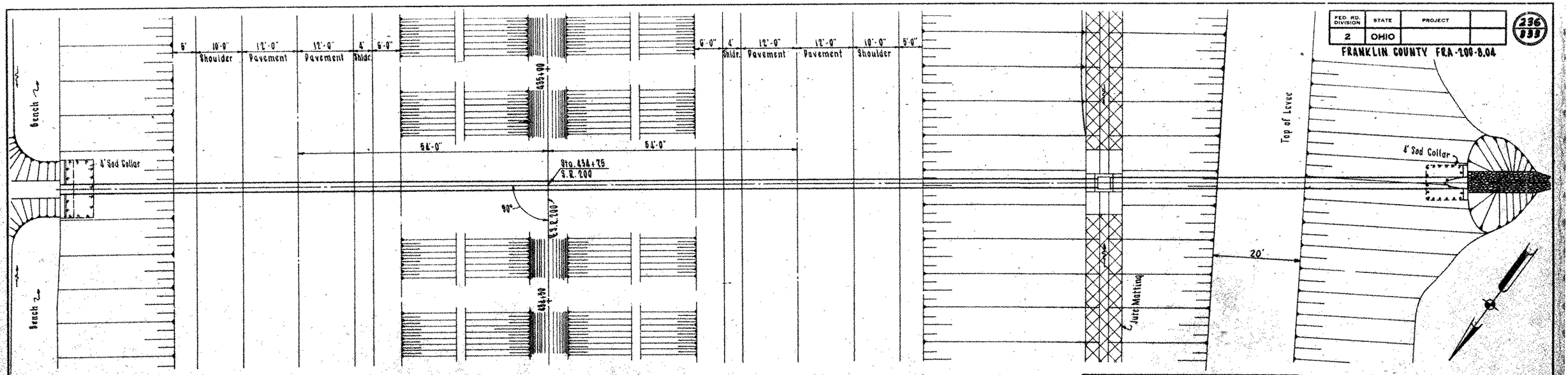
Scale: 1" = 10'-0"

Culvert at Sta. 41+25 State Route 104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

236
333

FRANKLIN COUNTY FRA-100-8.04



PLAN

Scale: 1" = 10'-0"

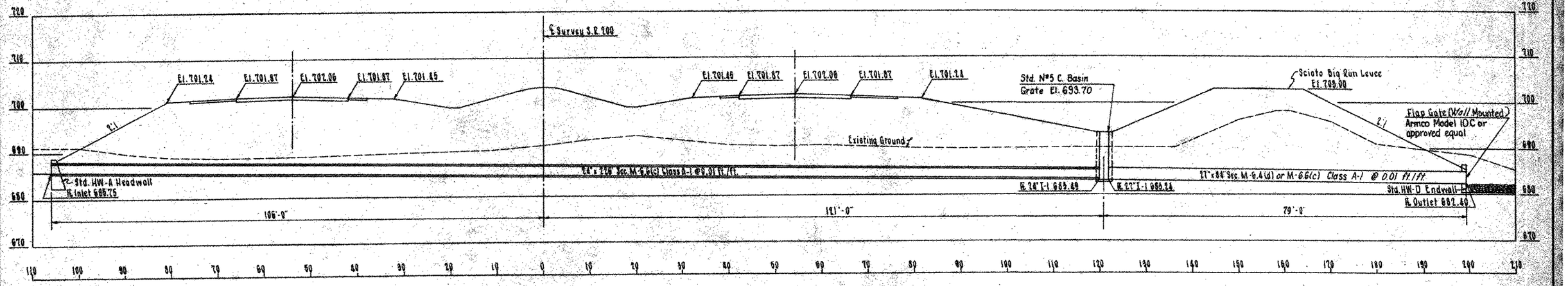
-ESTIMATED QUANTITIES-

I-1 24" R.C.P.	Sec. M-6.5(c) Class A-1	227 Lin. Ft.
I-1 27" C.M.P.	Sec. M-6.4(d) or M-6.6(c) Class A-1	79 Lin. Ft.
I-2 Masonry, Class "C"		2.07 Cu. Yds.
I-5 Flap Gate for 27" dia. pipe		1 Each
I-8 Standard N°5 Catch Basin		1 Each
I-10 Dumped Rock Channel Protection		7.5 Cu. Yds.
L-10 Sodding, as per plan		9 Sq. Yds.

Area = 16 Acres
Q 50 = 30 c.f.s.

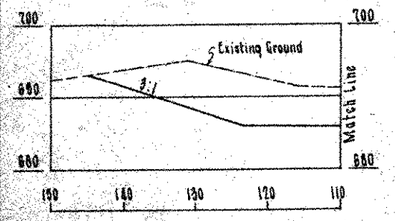
-CULVERT DATA-

Type: Reinforced Concrete Culvert Pipe and Corrugated Metal Pipe
Size: 24" x 227 and 27" x 79'
Skew: 0°-00'
Work Required: Construct a Pipe Culvert with an HW-A Headwall Lt. and an HW-D Endwall Rt. Place Dumped Rock Channel Protection at outlet and sodding around pipes as shown. Flap Gate shall be wall mounted to 27" C.M.P.

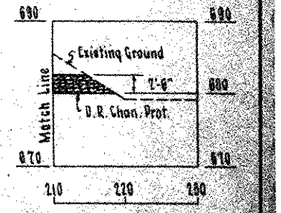


Section on ℄ Culvert

Scale: 1" = 10'-0"



Note:
For details not shown see Std. Dwg. I-1, Std. Dwg. HW-A and Std. Dwg. HW-D.



Culvert at Sta. 434+75 S.R. 200

2	OHIO		

237
383

FRANKLIN COUNTY
FRA-200-8.04

TYPICAL SECTION - PROPOSED CHANNEL RELOCATION
Scale - 1"=30'

7030 2:1 20' 679.0 30' 2:1 20' 7030 2:1

Begin Prop. Levee Lt 46+00
Begin Channel Relocation 46+50
Exist. Levee
703.0 Level
Begin Prop. Levee Rt 46+50
Corner Post Assembly 82' Lt Sta. 424+60
See Std. Dwg. I-15 No.5 for Details of Guard Rail & Median Ditch at Bridges.
Structure No. FRA-200-0904 Lt. & Rt.
For Structure Data See Sh. No. 296
For S.R. 200 Details See Sh. No. 25
℄ Survey
Dirt Field Road
To S.R. 104
B.M. ℄ S.R. 200 419+37± 187' Lt.
Conc. R/W mon. ℄ S.R. 104 52+09.88
30.20' Rt. Elev. 710.444
S 3° 38' 53" W
PC 425+42.30
426+00 ℄ S.R. 200
50+00 ℄ Channel
℄ Proposed Channel Relocation
Top of New Levee 703.0
703.0 Level
Top of Slope
Field
Sta 425+75
Sta 428+00
AREA PLAN
Scale - 1"=50'
American Aggregates Corp.
Special Ditch See X-sections
10' Paved Shoulder
4' Paved Shoulder
S 53° 51' 07" E To U.S. 23
End Prop. Levee Lt S.R. 200 435+00
Exist. Channel Bottom
End Channel Relocation
Sta to Sta Run
Granular Material
Begin levee embankment with granular material as shown on the appropriate cross section
RT 54+24.76
Exist. Levee
Sta 432+85
American Aggregates Corp.
End Prop. Levee Rt 56+07
℄
P.I. Sta. 52+02.60
Δ - 53°00' Lt
Dc - 11°00'
R - 520.87'
Lc - 481.82'
T - 259.70'
E - 61.15'
B.M. ℄ S.R. 200 432+89± 410'± Lt.
RR spike in south side of 12" tree
Elev. 692.793
I-3 Channel Excavation

PROFILE ALONG ℄ SURVEY S.R. 200
Scale - Horiz. 1"=50' Vert. 1"=5'
℄ 424+75 "B" C.B.
Rt. Grate 699.92
Rt. C.B. 698.08
℄ 427+50 "B" C.B.
Rt. Grate 699.24
Rt. C.B. 697.40
Existing Levee
Existing Levee
Existing Ground

PROFILE OF RELOCATED SCIOTO BIG RUN
Scale - Horiz. 1"=100' Vert. 1"=5'
Existing Ground
℄ Channel Relocation (as proposed 1-13-61 by American Aggregates Corp.)
Elev 679.0 Level Grade (to Sciota River)
℄ Existing Channel (as built 2-61 by American Aggregates Corp.)

Channel Excavation, E-3	28,817 C.Y.
Roadway Embankment, E-1	19,140 C.Y.
Roadway Embankment + 15%, E-1	22,011 C.Y.
Borrow Using Granular Material for Channel Relocation, E-4	1,994 C.Y.

SCIOTO BIG RUN CHANNEL RELOCATION

238
333

OHIO

FRANKLIN COUNTY
FRA-200-8.04

END AREA		VOLUME	
CUT	FILL	CUT	FILL

OHIO

239
333

FRANKLIN COUNTY
FRA-200-8.04

END AREA | VOLUME
CUT | FILL | CUT | FILL

100 80 60 40 20 ℄ 20 40 60 80 100

Match Line
425+00.51 Lt

Sta. 49+30.52 Rt
℄ 12° 1-1 697.52

Rear Abutment - Lt. Bridge

Sta. 424+75
℄ S.R. 200
Std. No. 8 C.B.
℄ Grate 699.92
℄ C.B. 698.08

HW-E Endwall

12"×56' CI. E-1 Pipe @ 0.01 Ft/Ft

700
690
680

Granular material

49+00

Item E-4 Borrow Using Granular Material for Channel Relocation		
Station	End Area	Cu. Yds.
46+85	15	8
47+00	15	267
48+00	12.9	732
49+00	2.66	197
49+20	2.66	
Total		1204

675 1044

1987 3113

Sta. 47+85.39' Rt
℄ 24° 1-1 688.84

Flap Gate (Wall Mounted)
Armco Model 10 C or Approved Equal

Sta. 423+92 121' Lt
℄ 689.54

24"×70' CI. D-1 Pipe @ 0.01 Ft/Ft

℄ Lt Ditch

HW-D Headwall

6'×10' Erosion Control Pad 30" Deep

HW-E Endwall

700
690
680

398 637

Levee embankment to be started by end dumping to the depths shown on the cross-sections granular material meeting the requirements of Sec. E-102, modified to require at least 85% by weight of the grains or particles to be retained on the No. 200 sieve.

Granular material

48+00

935 1757

700
690
680

107 312

Granular material

47+00

Begin Proposed Levee ℄ Sta. 46+50

197 447

Sta. 46+50

106 171

PROPOSED SCIOTO BIG RUN CHANNEL RELOCATION - 47+00 TO 49+00

FRANKLIN COUNTY
FRA-200-8.04

END AREA		VOLUME	
CUT	FILL	CUT	FILL
1054	596		
1645	1220		
942	722		
1768	1081		
967	446		
3041	2759		
675	1004		

Sta. 427+50
℄ S.R. 200
Std. No. 8 C.B.
Rt. Grate 699.24
Rt. C.B. 697.40

for Median Grading See Sheet No. 65

See S.R. 200
X-sections

Ref. only

72" x 52" Cl. E-1 Pipe @ 0.01 Ft/Ft.

Sta. 51+14.50 Lt.
℄ 12" I.I. 696.88

HW-E Endwall

51+00

See S.R. 200
X-Sections

Sta. 50+78.41 Rt.
℄ 24" I.I. 690.00

Flap Gate (Wall Mounted)
Armco Model 10C or Approved Equal

24" x 67' Cl. D-1 Pipe @ 0.01 Ft/Ft.

HW-D Headwall

Rear Abut.
Rt. Bridge

Sta. 425+84 135. Rt.
Rt. 690.68

HW-E Endwall

50+50

Forward Abut.
Lt. Bridge

Match Line
425+50 25' Lt.

Rear Abut.
Rt. Bridge

Match Line
425+50 25' Rt.

50+00

Sta. 49+00

PROPOSED SCIOTO BIG RUN CHANNEL RELOCATION - 50+00 TO 51+00

SEEDING	
END WIDTH	SQ. YDS.

For S.R. 200 X-sections Sta. 433+50
See Sheet No. B2 & B3

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY
FRA-200-8.04

END AREA		VOLUME	
CUT	FILL	CUT	FILL

433+50 Rt.
℄
20 40 60 80 100 120 140 160 180 200 (Ref. Only) 220 240 260
(Channel Sta. 58+05)

For further Channel Sections
See S.R. 200 X-Sections Sta. 430+00 Rt. to 435+00 Rt.

Match Lines Sta. 429+50 138' Rt

700
690
680
146
54+00

1117
See S.R. 200 X-Sections
700
690
680
165
53+00
1019 741

1506
See S.R. 200 X-Sections
Forward Abutment Rt. Bridge
700
690
680
108
52+00
1069 436

1200
Sta. 51+00
120 100 80 60 40 20 ℄ 20 40 60 80 100 120
Sta. 51+00
1054 396

39902369
3867 2201
3930 1948

PROPOSED SCIOTO BIG RUN CHANNEL RELOCATION - 52+00 TO 58+05

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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ESTIMATED QUANTITIES - LIGHTING

Item No.	Unit	Description	Bridges							
			FRA-200-0806	FRA-200-0810	FRA-200-0822	FRA-200-Ramp A Under I-71 NB	FRA-200-Ramp A Under I-71 SB	FRA-200-0806 Lt.	FRA-200-0804 Rt.	Total Bridges
S-1	Cu.Yd.	Class "C" Concrete, Superstructure ⊛	0.80	0.80	0.80	-	-	-	-	2.40
S-4	Lbs.	Reinforcing Steel ⊛	248	248	248	-	-	-	-	744
S-7	Lbs.	Anchor Bolt with Galvanized Steel Sleeve and Pipe Cap(Structural Steel) ⊛	90	90	90	-	-	-	-	270
S-25	Lin.Ft.	2"ϕ Electric Conduit and Fittings (Fiber)	365	795	795	263	132	123	170	2503
S-25	Lin.Ft.	2"ϕ Electric Conduit and Fittings (Metal)	18	18	18	55	27	15	15	166
S-25	Each	Grounding, Type A	1	1	1	-	-	-	-	3
S-25	Each	Grounding, Type B	-	-	-	1	1	1	1	4

GENERAL NOTES - LIGHTING

DESCRIPTION

All construction methods, materials and workmanship shall be in accordance with the dimensions and details shown on the plans, and shall conform to the general requirements of Item S-25 Electrical Equipment, and other applicable sections of the Construction and Material Specifications, State of Ohio, Department of Highways, latest issue, and to the requirements of the National Electric Code.

GENERAL

The location of future lighting units will provide an average maintained illumination of 1.4 foot-candles and minimum illumination of 0.35 foot-candles within the I-71 Interchange limits.
Certified statements regarding compliance of materials with specifications shall be furnished upon request. Materials other than those listed herein shall be of the size and quality indicated on the plans and in the specifications.

The Engineer shall approve the proposed location of all lighting standard pilasters and conduits.

The Contractor shall coordinate construction of the lighting facilities with the bridge construction.

CONDUIT

Provide conduit as indicated on the plans and conforming to Section S-25.08 of the Construction and Material Specifications
Encased: 2 inch dia. fiber conduit and fittings except as shown in Detail "B"
Exposed: 2 inch dia. rigid galvanized steel conduit and fittings

Steel conduit and fittings shall be heavy wall, threaded, hot dipped galvanized type, conforming to Federal Specification WW-C-581C equal to Youngstown Sheet and Tube Co. "Yoloy", approved equivalent as manufactured by Republic Steel Co. or others, or galvanized wrought iron, etc., as approved. Steel expansion fittings shall be O.Z. Company Type AX or approved equal.

Fiber conduit and fittings shall be Type I conforming to the requirements of Federal Specification W-C-581.

Conduit bushings shall be O.Z. Company Type B, approved equivalent as manufactured by the Appleton Company or approved equal.

Conduits shall have minimum slope of five inches per 100 ft. to drainage points. Install "T" coupling for conduit drain located at low point of conduit run between each lighting standard pilaster.

Conduits shall be mandrelled with iron shod mandrell 1/4" smaller than bore of conduit, with leather or mandrell gasket slightly larger than bore of conduit, pushed through by means of jointed conduit rods.
A No.10 galvanized steel drag or fish wire with extra length bent back at ends shall be provided in each empty conduit. Conduits shall be terminated with end bell or bushing.

Payment for conduit shall be made at the contract unit price per lineal foot for each type and size of conduit completed and accepted, which price shall be full compensation for furnishing and installing all materials, including all labor, equipment, tools and incidentals required to complete the work.

ANCHOR BOLTS

Provide and install as indicated on the plans, four (4) high grade steel anchor bolts with hex nut, threaded at top end and with "L" bend at bottom end. Size and dimensions of anchor bolts and diameters of anchor base bolt circles shall be as shown on the plans. Projecting ends of anchor bolts shall be protected with steel sleeves and pipe caps.

Anchor bolts shall be capable of resisting at yield strength stress the bending moment of the shaft at its yield strength stress. Anchor bolts shall be fabricated from steel, AISI C1035, hot rolled special quality, typical yield strength 55,000 psi.
This specification is identical to ASTM A107-58T, Grade 1035, Special Quality.

Galvanizing conforming to Section M-7.8(d) of the Construction and Material Specifications shall be provided on nuts, sleeves, caps, and threaded ends of anchor bolts extending no more than 1" beyond threads.

Weight of anchor bolts, galvanized steel sleeve and pipe cap is included in Item S-7 Structural Steel. The unit price bid shall be full compensation for furnishing and installing all materials, including all labor, equipment, tools and incidentals required to complete the work.

GROUNDING

Provide complete permanent grounding systems for all future lighting standards and all steel conduits, complying with requirements of Item S-25, Section S-25.13 of the Construction and Material Specifications. Ground resistance shall not exceed 10 Ohms.

Grounding, Type A, for structures with lighting standard pilasters:
Exothermic weld lower end of No.1/0 AWG 7 strand soft annealed bare copper cable to steel shell of a cast in place concrete pile, Structure Nº FRA-200-0806, extend in continuous length through outside column on the right side of structure at fixed pier, through pier cap with lead of sufficient length to exothermic weld upper end to fascia girder. For Structures FRA-200-0819 & FRA-200-0822, where piles are not used, an additional 25 foot length of cable shall be looped under the pier footing and separated from the concrete with two layers of tar paper.
Exothermic weld upper end of No.1/0 AWG 7 strand soft annealed bare copper cable to one anchor rod for each future lighting standard, and exothermic weld lower end to top flange of fascia girder.

Grounding, Type B, for structures with conduit only:
Exothermic weld one end of No.1/0 AWG 7 strand soft annealed bare copper cable to extended conduit, and exothermic weld other end to copper clad ground rod outside bridge limits.
Ground rods shall be copper clad steel, copperweld, 5/8" as noted and of length as noted, approved equivalent as manufactured by Blackburn Company, or approved equal.

Payment for grounding shall be at the contract unit price for Grounding, Type A or Type B, completed and accepted, which price shall be full compensation for furnishing and installing all materials, including all labor, equipment, tools and incidentals required to complete the grounding for each bridge.

⊛ *Carried to estimated quantities for each bridge (sheet 251 or 264) as part of the superstructure quantity for these items.*

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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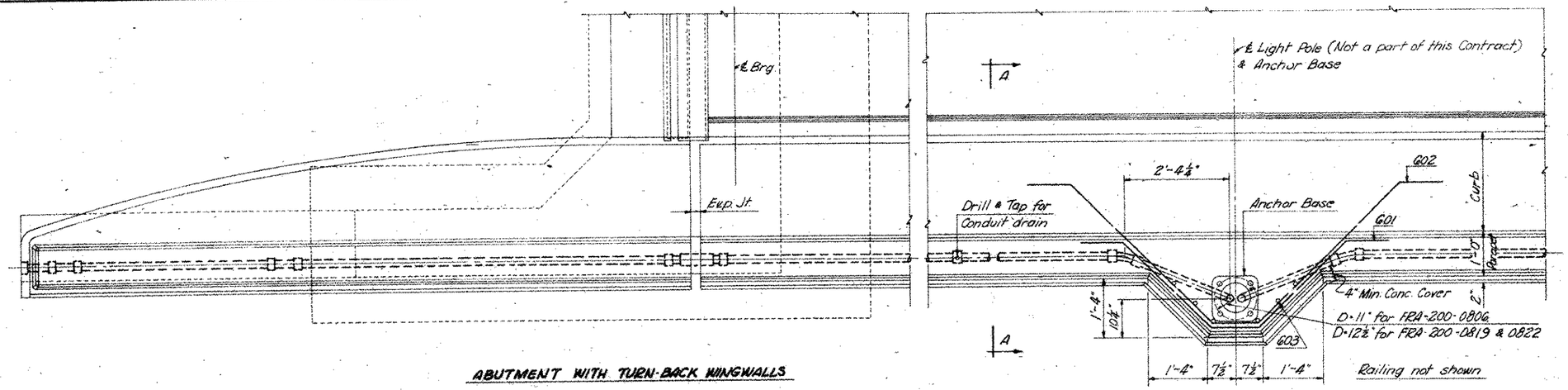
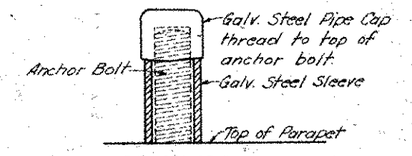


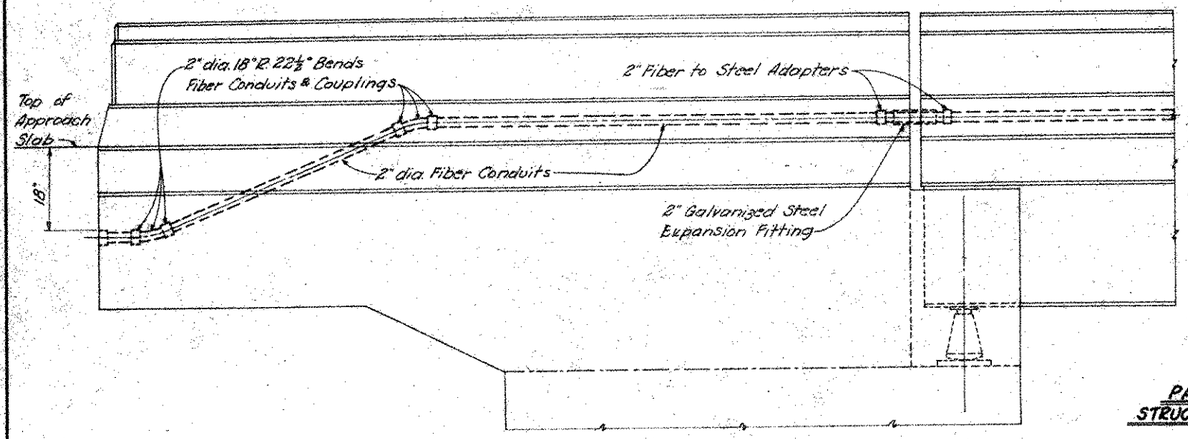
ABUTMENT WITH TURN-BACK WINGWALLS
FRA-200-0806
FRA-200-0819 & 0822

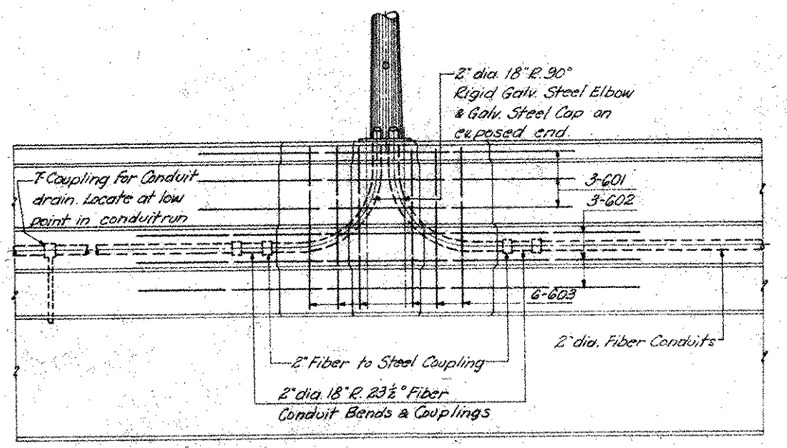
LIGHT POLE PILASTER
FRA-200-0806
FRA-200-0819 & 0822

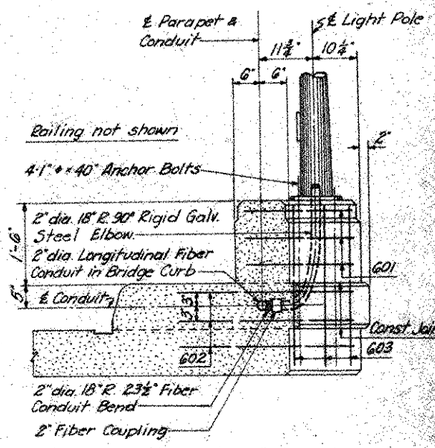


DETAIL "D"
COVER FOR ANCHOR BOLTS

PART PLANS



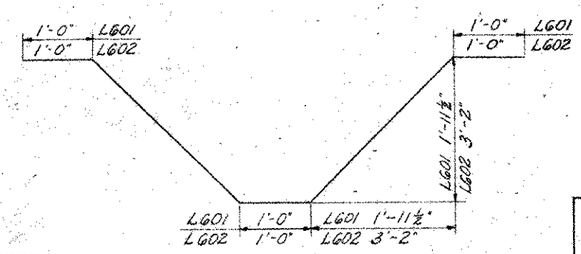




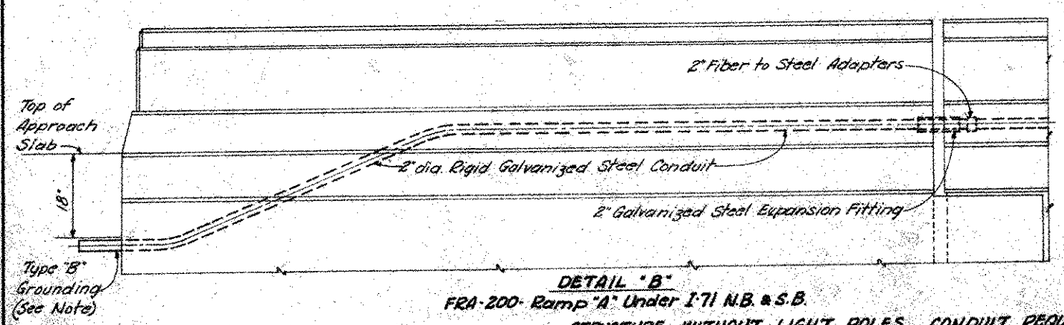
SECTION A-A

Railing not shown

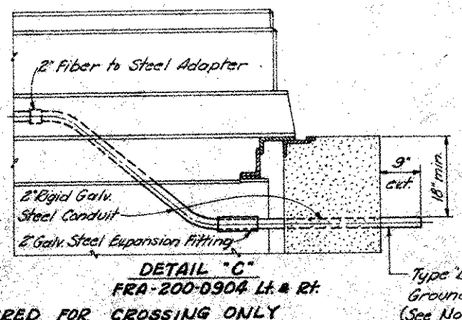
PART ELEVATIONS
STRUCTURE WITH LIGHT POLES



Note:
Connect extended conduit to ⅝" x 8'-0" copper clad ground rod outside bridge limits.



DETAIL "B"
FRA-200- Ramp "A" Under I-71 N.B. & S.B.



DETAIL "C"
FRA-200-0904 Lt. & Rt.

STRUCTURE WITHOUT LIGHT POLES CONDUIT REQUIRED FOR CROSSING ONLY

Reinforcing Steel List for one blister

Mark	No. of Bars	Length	Weight	Shp
LG01	3	8'-6"	39	B
LG02	3	13'-0"	59	B
LG03	6	2'-10"	26	S

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BRIDGE LIGHTING DETAILS

FRANKLIN COUNTY
FRA-200-8.04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.E.F.	J.E.F.	V.L.F.	M.M.	M.M.	8-62	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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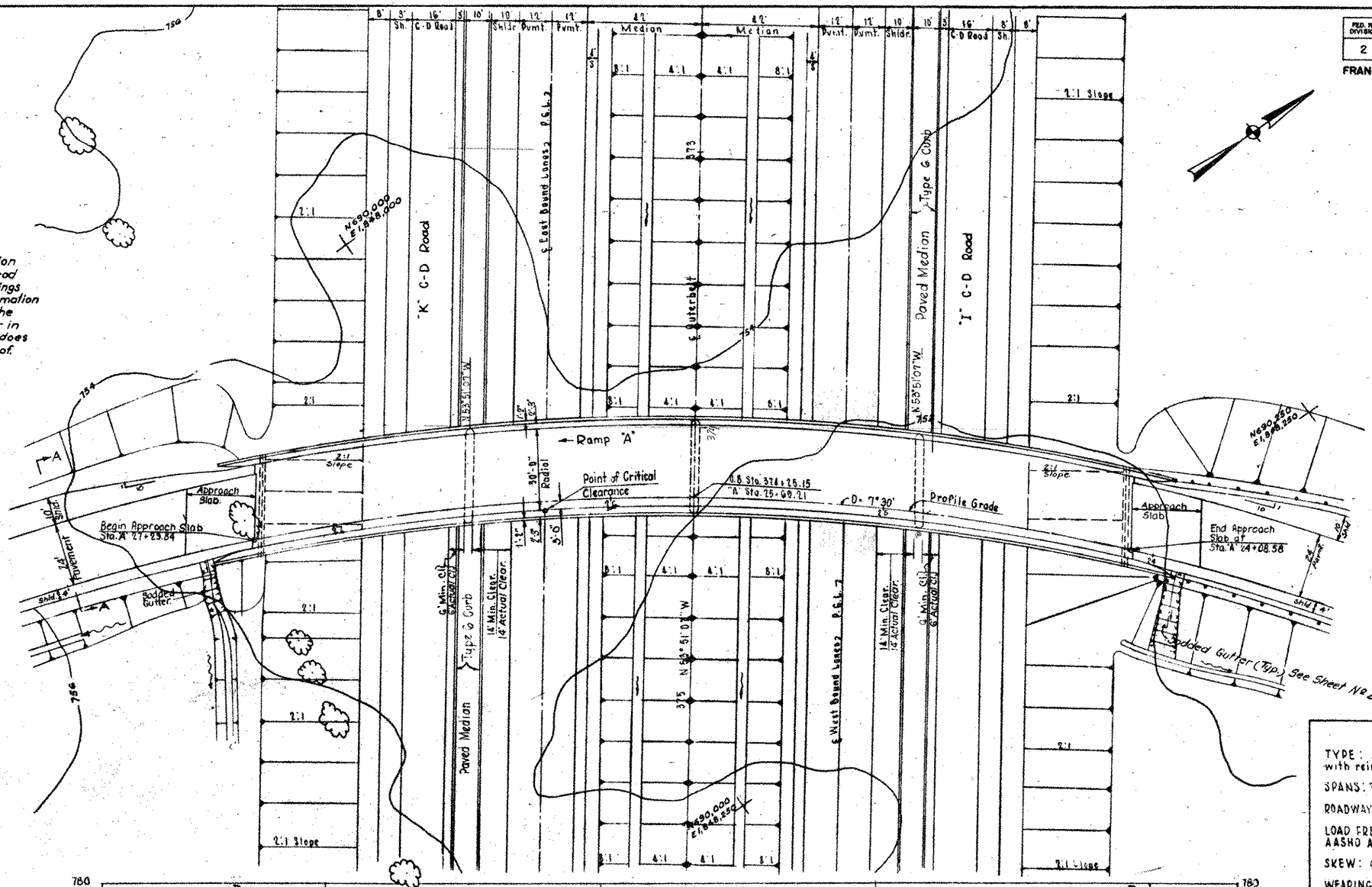
FRANKLIN COUNTY FRA-200-8.04

FOUNDATION SOUNDINGS:

Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the Office of the Bureau of Bridges in Columbus or in the Division Office, but the State does not guarantee the accuracy there of.



RAMP "A" CURVE DATA:

D = 7°-30'-00"
R = 763.944'
Δ = 140°-29'-01"
L = 1873.116'

B.M.= Railroad spike in West side 36" Locust 1225'± Rt. ℄ SR 200 Sta 374+30± Elev. 750.010

B.M.= Top of rod in concrete monument in ℄ of median on the ℄ I.R. 71 at Sta. 480+00 Elev. 752.933

PROPOSED STRUCTURE

TYPE: 4 Span continuous steel beam bridge with reinforced concrete deck and substructure.

SPANS: 76.6'; 81.6'; 81.6'; 76.6'

ROADWAY: 34'-6" ℄ of parapets

LOAD FREQUENCY: CF-2000 (57) Adequate for AASHO Alternate Loading

SKEW: 0° with Reference Tangent

WEARING SURFACE: 1" Monolithic Concrete

APPROACH SLABS: AS-1-54 (25' long)

ALIGNMENT: 7° 30' Curve to Left

SUPERELEVATION: +0.083% to the Right

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SITE PLAN
BRIDGE NO. FRA.-200-0806
UNDER RAMP "A"

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374+25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.N.K.	F.N.K.	I.R.	C.Y.L.	R.D.	9-61	

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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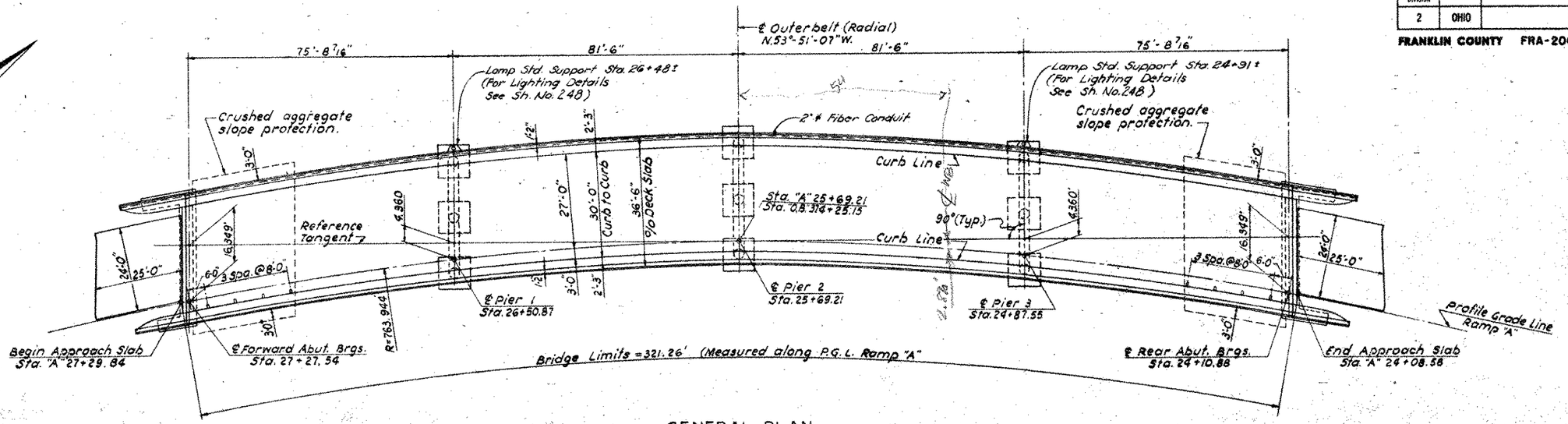
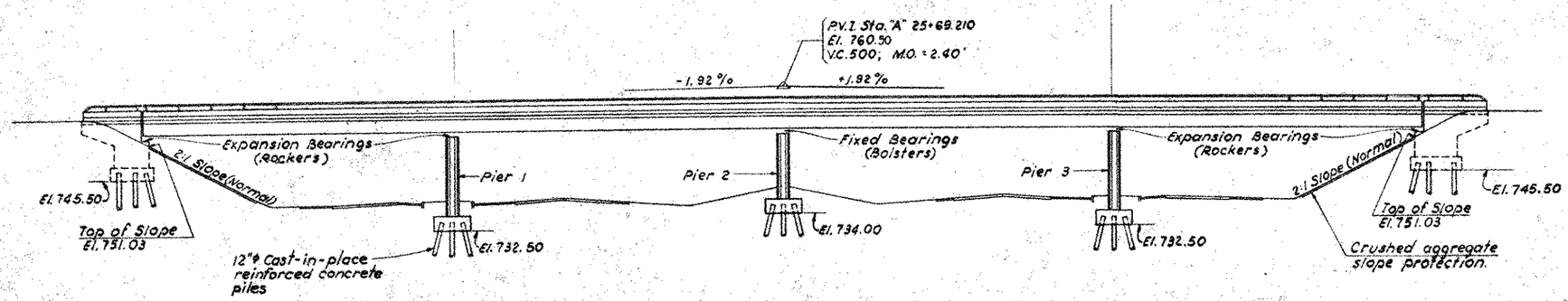
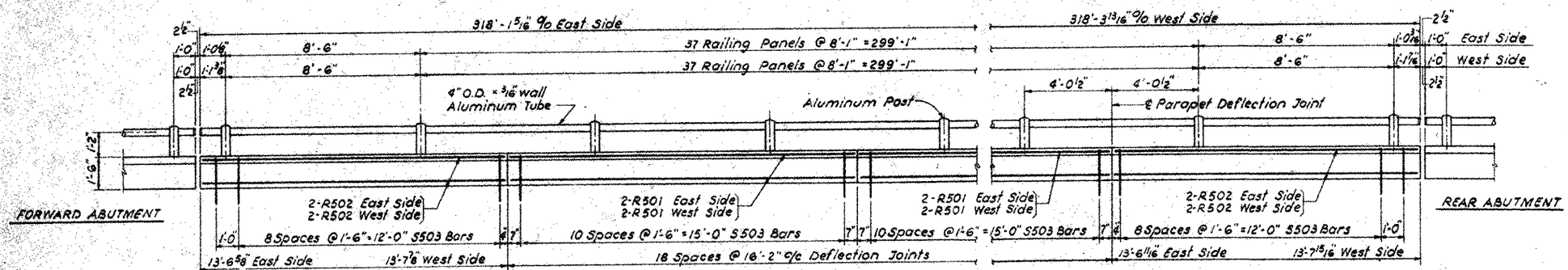
FRANKLIN COUNTY FRA-200-8.04



GENERAL PLAN



ELEVATION



PART ELEVATION OF DECK RAILING (Dimensions on ℄ Railing)

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GENERAL PLAN & ELEVATION
BRIDGE NO. FRA-200-0806
UNDER RAMP "A"

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374+25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
A.F.	A.F.	L.M.	H.B.	R.D.	9-61	

2

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-200-8.04

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Abut's.	Piers	Superstr.	Cem't.		
E-2	422	Cu. Yds.	Unclassified excavation	212	210				
S-1	⊗ 414	Cu. Yds.	Class "C" Concrete, superstructure			414			
S-1	75	Cu. Yds.	Class "C" Concrete, pier caps and columns		75				
S-1	68	Cu. Yds.	Class "E" Concrete, pier footings		68				
S-1	171	Cu. Yds.	Class "E" Concrete, abutments	171	358.09				
S-4	~~151,598~~ 151,957	Lbs.	Reinforcing steel	10,700	~~45,458~~	105,448			
S-7	⊗ 497,190	Lbs.	Structural Steel			497,190			
S-8	497,190	Lbs.	Field painting of Structural Steel			497,190			
S-14	699	Lin. Ft.	Railing (Aluminum rail, supports and concrete parapet)	63		636			
S-16	Lump	Sum	First test pile				Lump		
S-18	1,848	Lin. Ft.	12"ϕ Cast-in-place reinforced concrete piles.	840		1,008			
S-25			Lighting Quantities (See Note)						
S-29	8	Each	Scuppers			8			
S-29	32	Cu. Yds	Porous Backfill	32					
I-10	593	Sq. Yds.	Crushed aggregate slope protection				593		
Special	413	Each	Water-reducing, Set-retarding Admixture ✱			413			

(✱ See Proposal Note) ⊗ The quantities for items S-1, S-4, and S-7, tabulated on sheet no. 247, have been included in the superstructure quantity for these items.

GENERAL NOTES

REFERENCE shall be made to Standard Bridge Drawings CSB-2-56 Sheets 1, 2, & 3 (revised 2-2-59); to AR-1-57 (revised 4-2-62) and to RB-1-55 (revised 2-2-59).

DESIGN SPECIFICATIONS: This structure conforms to the requirments of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions thereof.

WELDING of structural steel shall be Class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of the concrete shall progress upgrade. The slab may be placed in sections, between transverse construction joints which are parrallel to transverse reinforcing steel and are located near the center of any span.

MACHINE FINISH: The top of the bridge deck slab shall be machine finished.

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than ⅛" are to be spliced by butt welding, the depth of the smaller-depth beam shall be increased by splitting the web longitudinally, at a distance of 1½" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than ³⁄₈" per foot, after which the split in the web shall be completely welded with full depth penetration and ground flush.

SHOP PAINTING STEEL: The surface preparation of all steel requiring shop painting as per the Plans and Specifications, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the Specifications regarding the use of Chromate Primers.

POROUS BACKFILL: 2 feet thick, full length of abutment and wings shall extend up to the underside of the approach slab and to the surface of the berm. Excavation therefore, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill.

EXCAVATION QUANTITY includes the removal of fill material between the surface of the proposed embankment and bottom of the footings.

PILES: shall be driven to a bearing capacity of 32 tons per pile for the abutments and 40 tons per pile for the piers.

SHEET LEAD: Sheet lead shall conform to the requirements of A.S.T.M. Designation B 29 without restriction to the Common Desilverized type.

LIGHTING QUANTITIES for this bridge shall be found listed item by item on the General Lighting Summary Sheet No. 247 and shall be bid by items as shown thereon and considered part of the quantities for this bridge.

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GENERAL NOTES & ESTIMATED QUANTITIES
BRIDGE NO. FRA-200-0806
UNDER RAMP "A"
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 374 + 25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	M.P.F.	J.H.	H.B.	R.D.	9-61	12-18-62

3

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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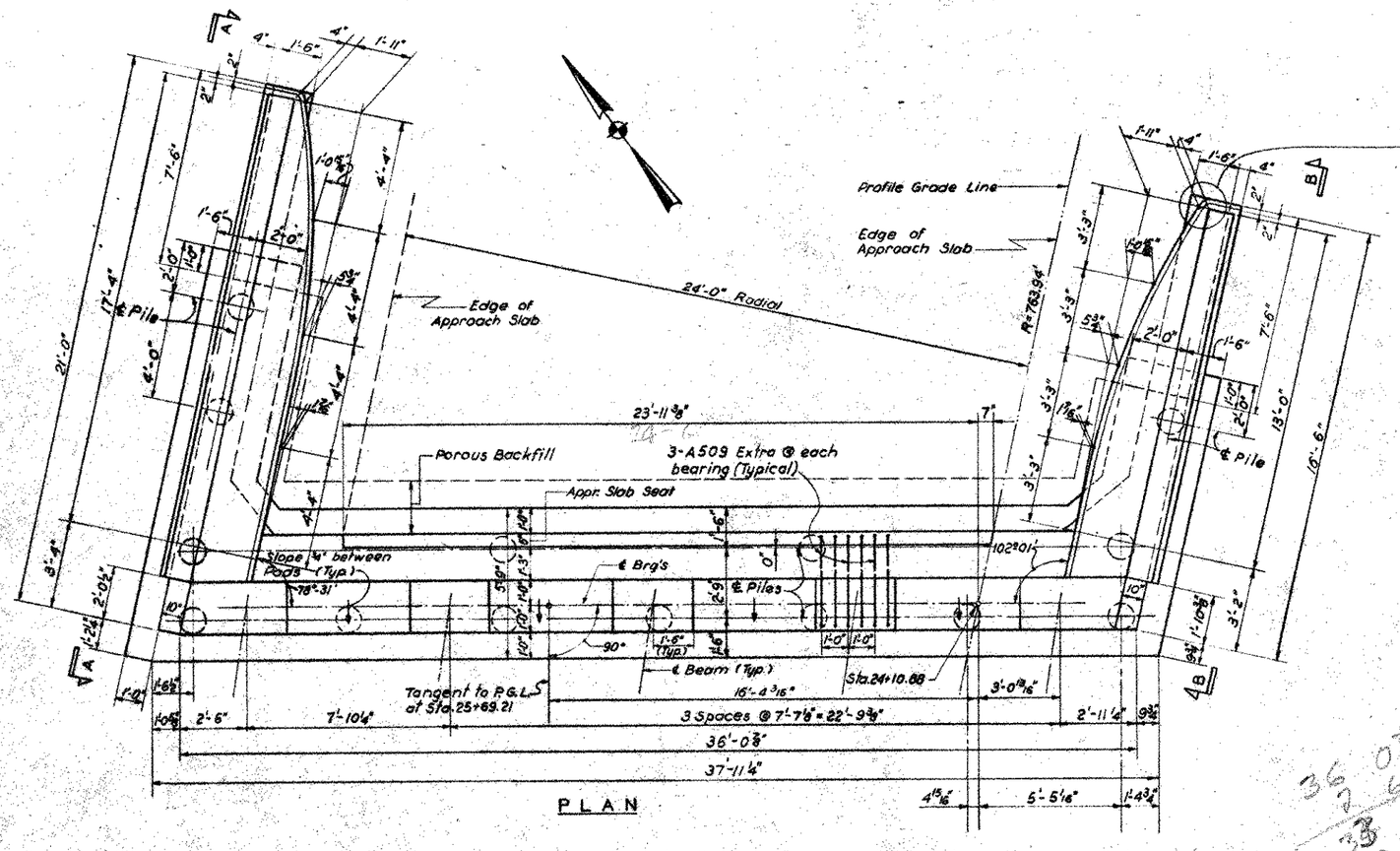
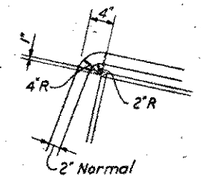
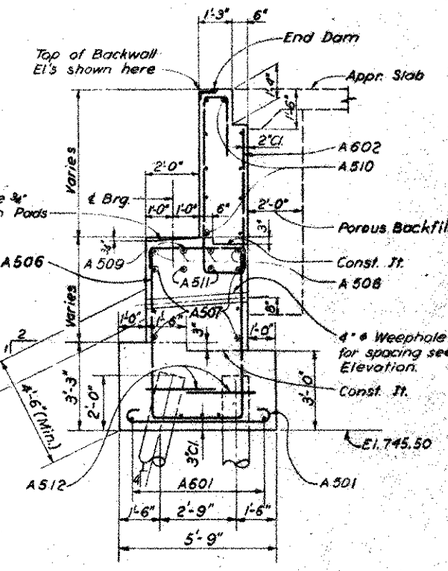
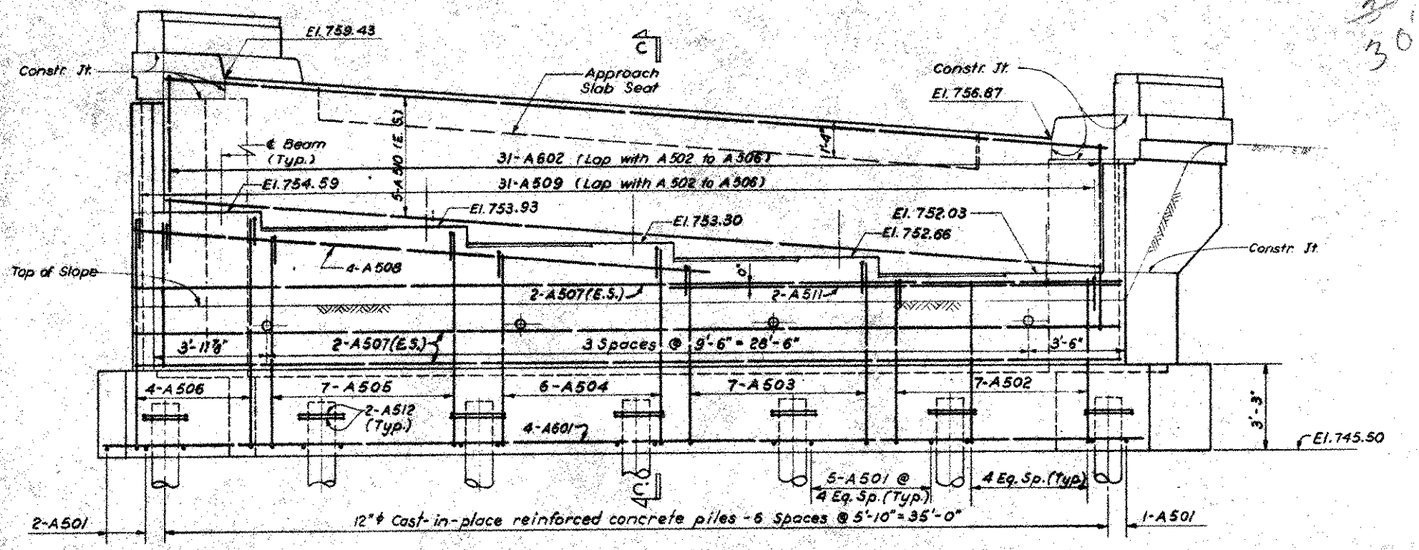
FRANKLIN COUNTY FRA-200-8.04









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REAR ABUTMENT DETAILS
BRIDGE NO. FRA-200-0806
UNDER RAMP "A"

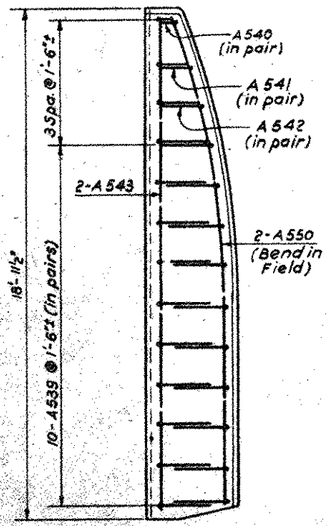
FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374 + 25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
O.P.	Y.C.K.	I.P.	C.F.K.	R.D.	9-61	

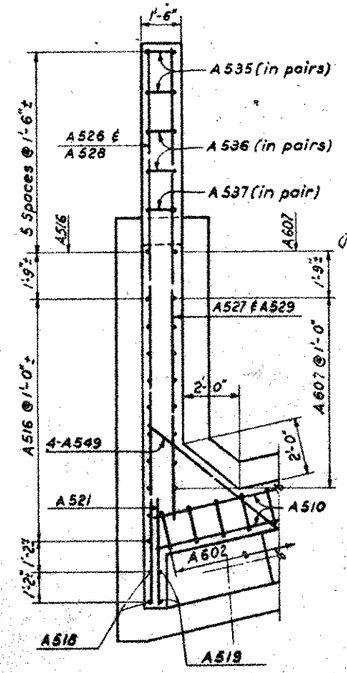
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

253
333

FRANKLIN COUNTY FRA-200-8.04



CURB REINFORCING DETAIL



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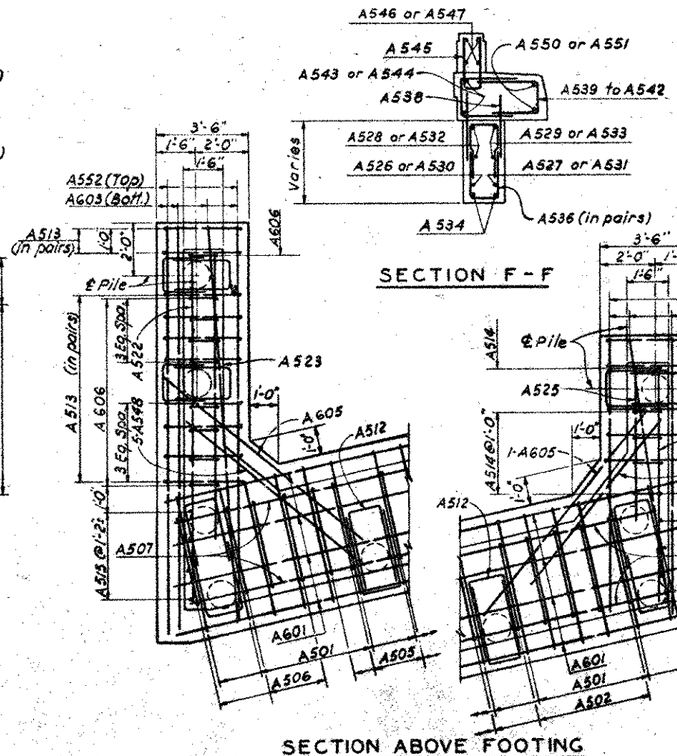

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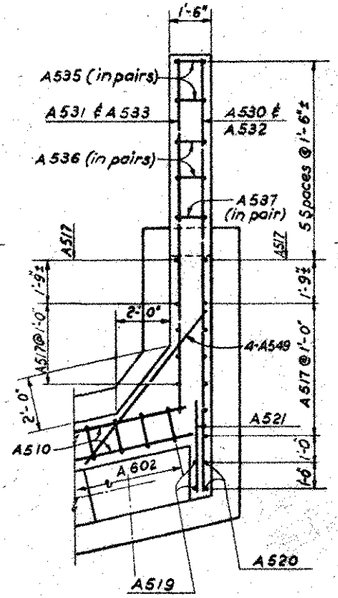

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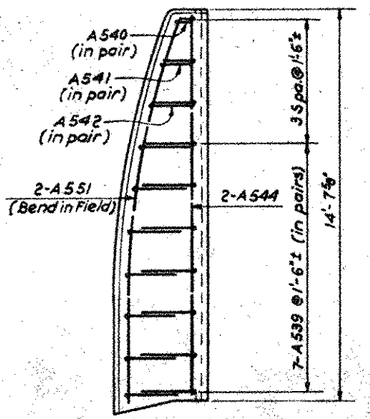

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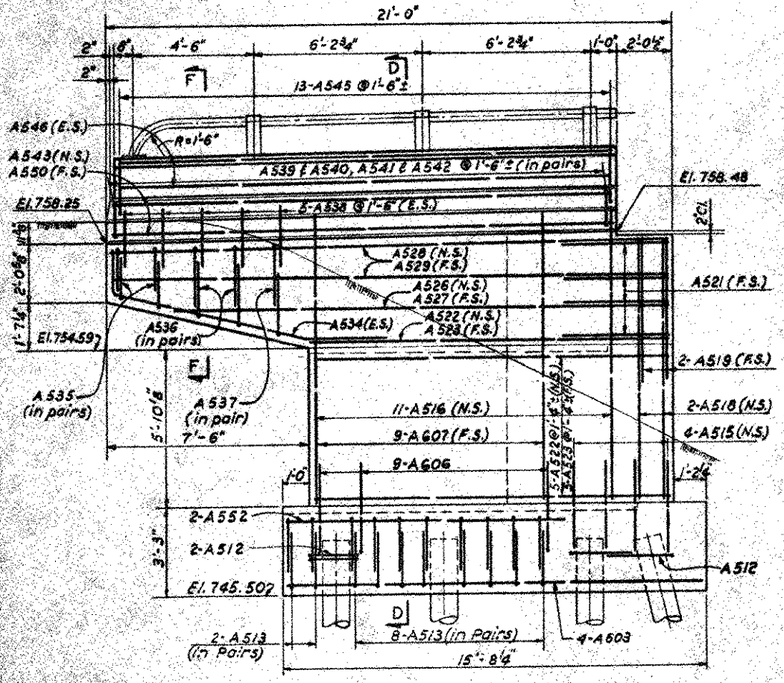
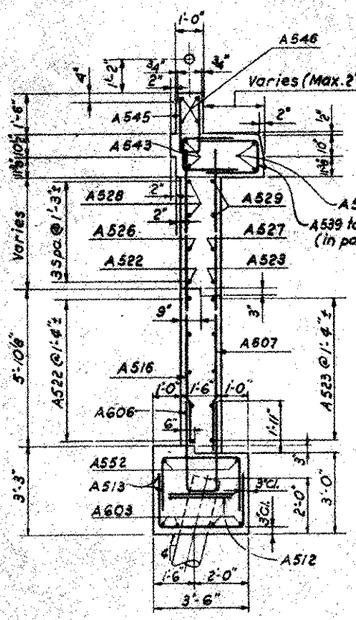
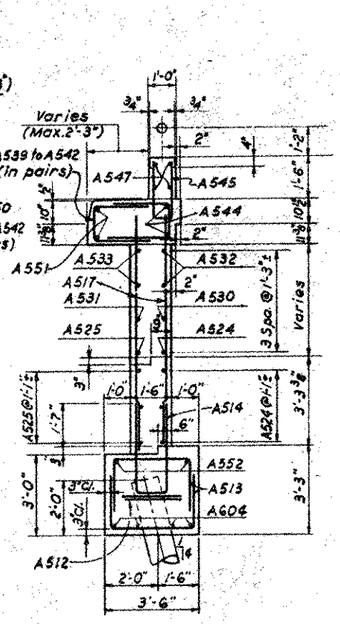


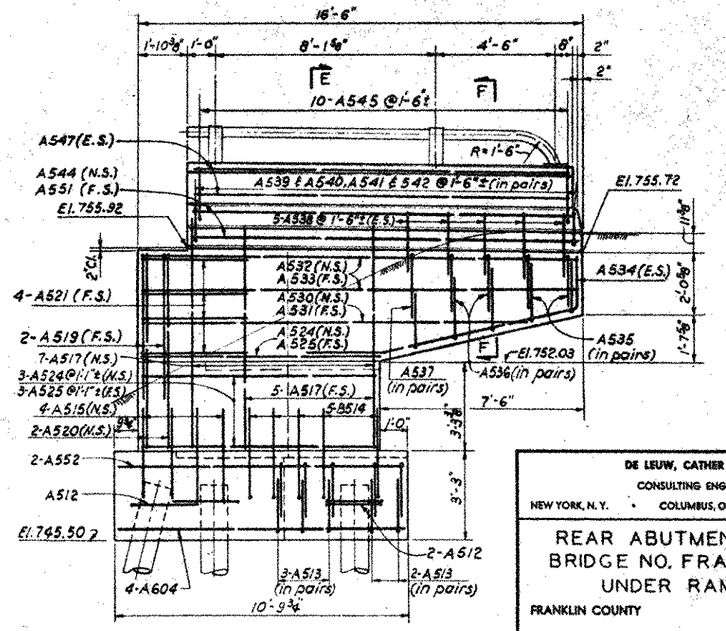
VIEW A-A



SECTION D-D



SECTION E-E



VIEW B-B

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REAR ABUTMENT DETAILS
BRIDGE NO. FRA.-200-0806
UNDER RAMP "A"

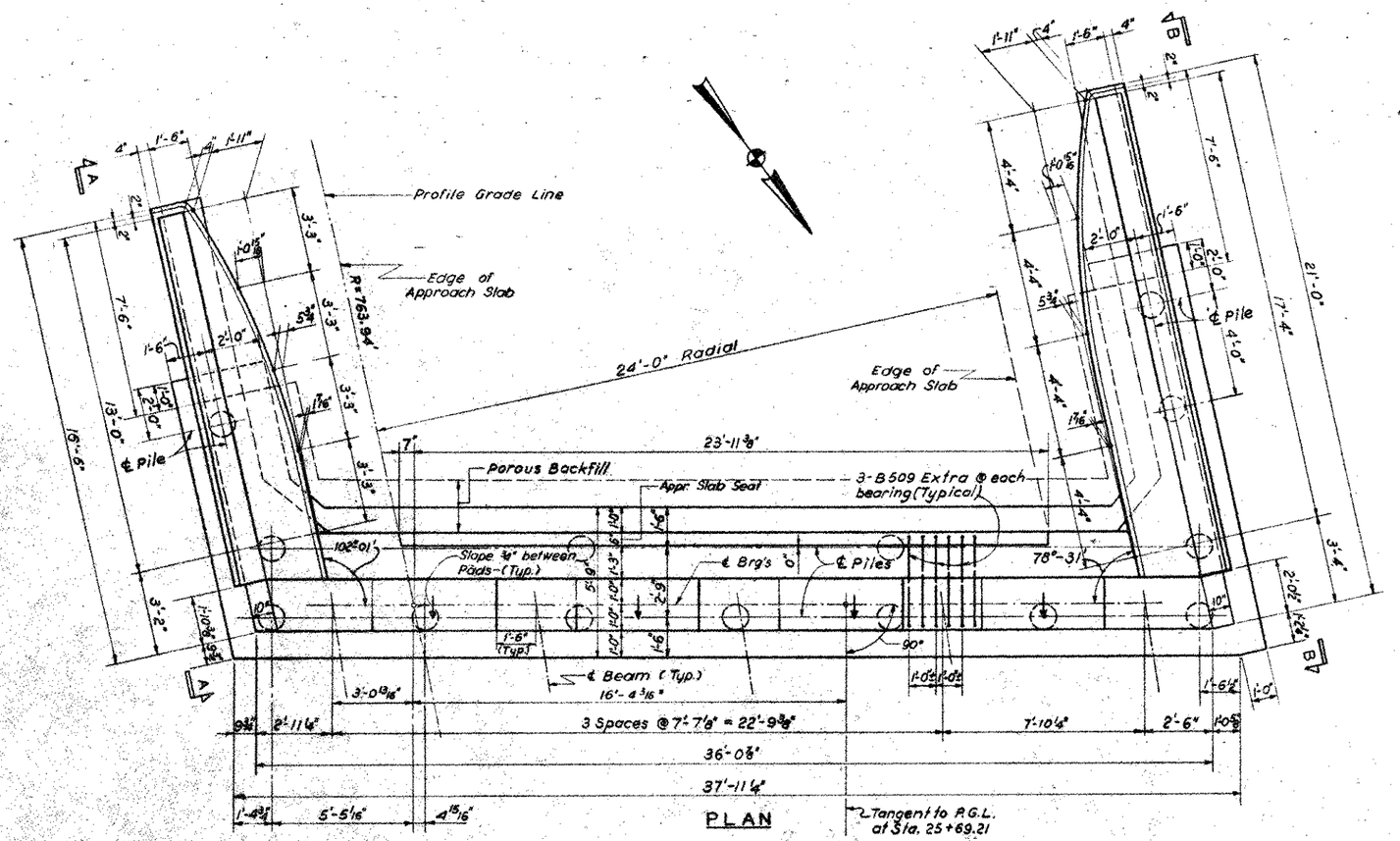
FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374+25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
Y.C.K.	Y.C.K.	E.B.	C.F.K.	R.D.	9-61	

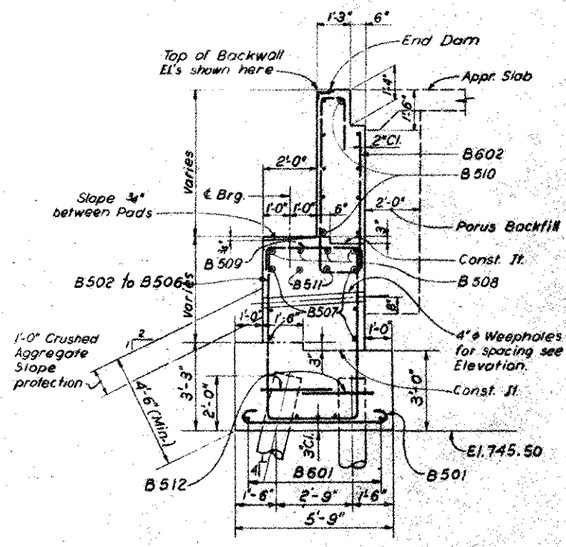
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

254
333

FRANKLIN COUNTY FRA-200-8.04



PLAN



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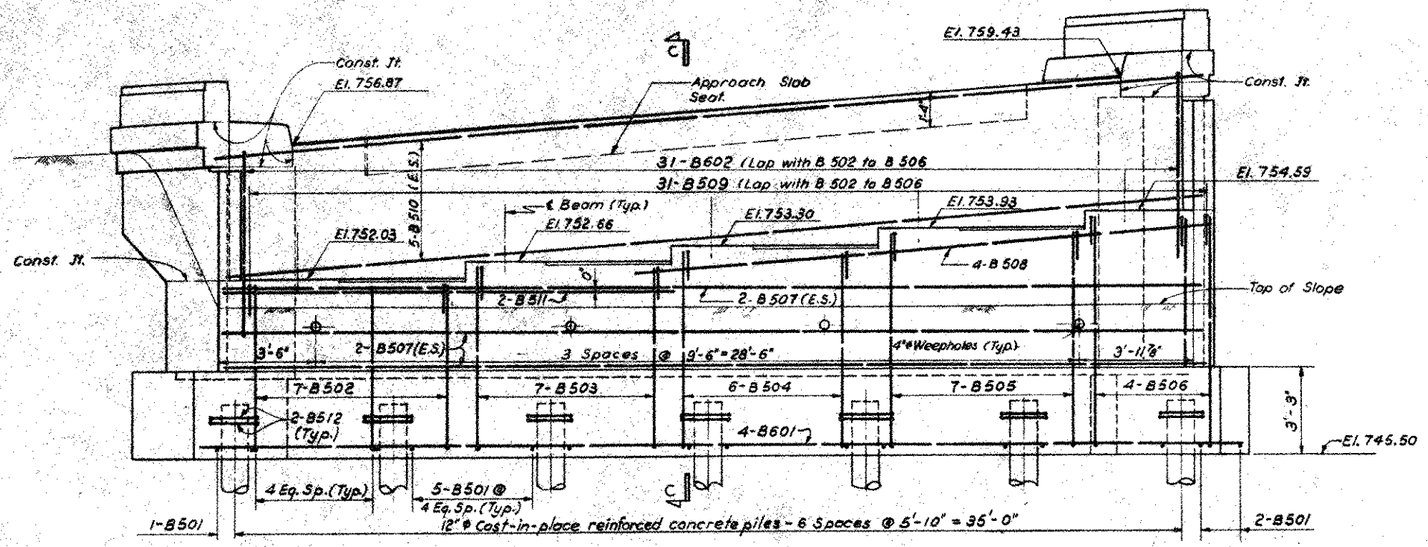

ELEVATION

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FORWARD ABUTMENT DETAILS BRIDGE NO. FRA-200-0806 UNDER RAMP "A"

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374+25.15

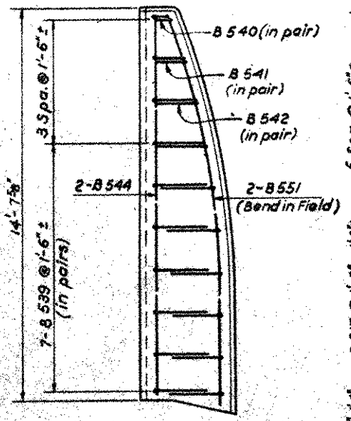
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
O.P.	Y.C.K.	I.P.	C.F.K.	R.D.	9-61	

BRUNO PRESS, INC., BROOKLYN 17, N.Y. AUTOFILM 6MP-A

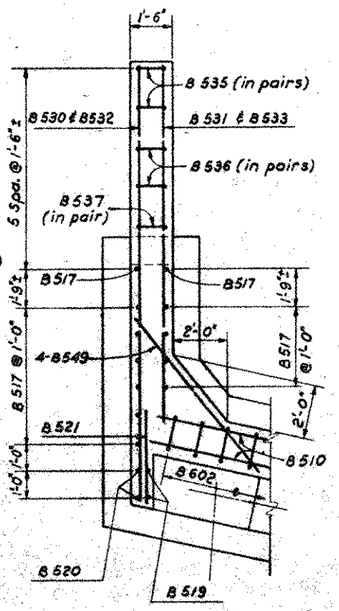
FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

255
335

FRANKLIN COUNTY FRA-200-8.04



CURB REINFORCING DETAIL



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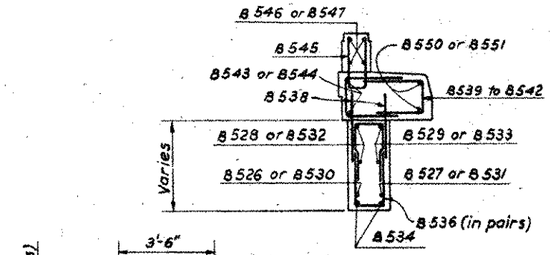
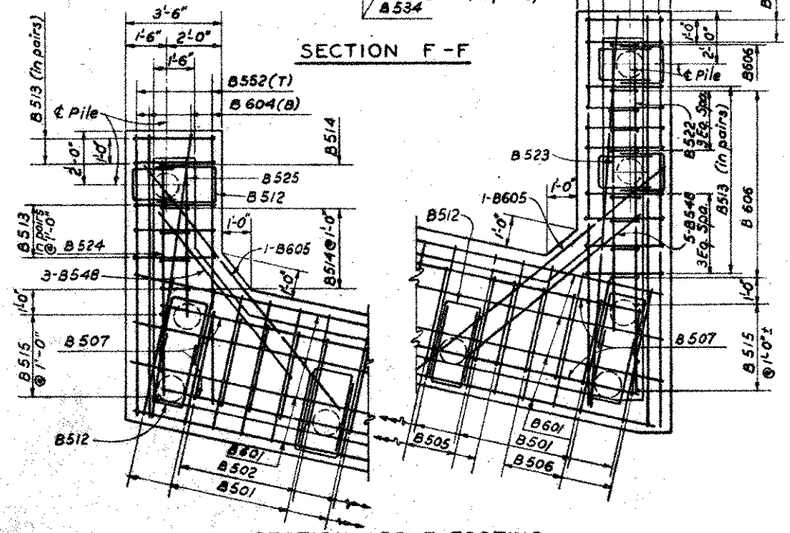


SECTION F-F



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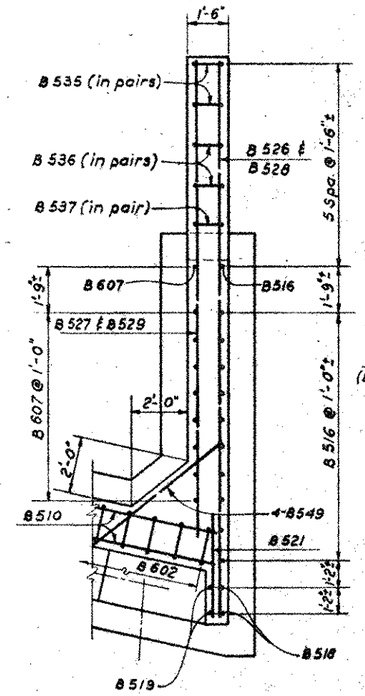

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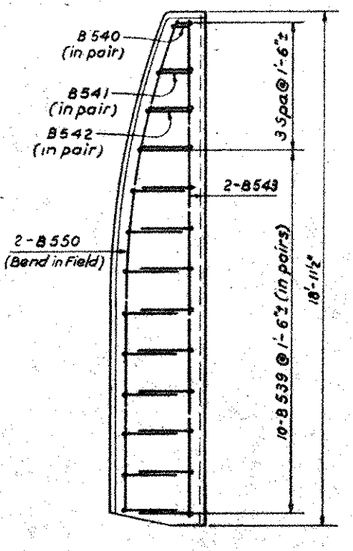

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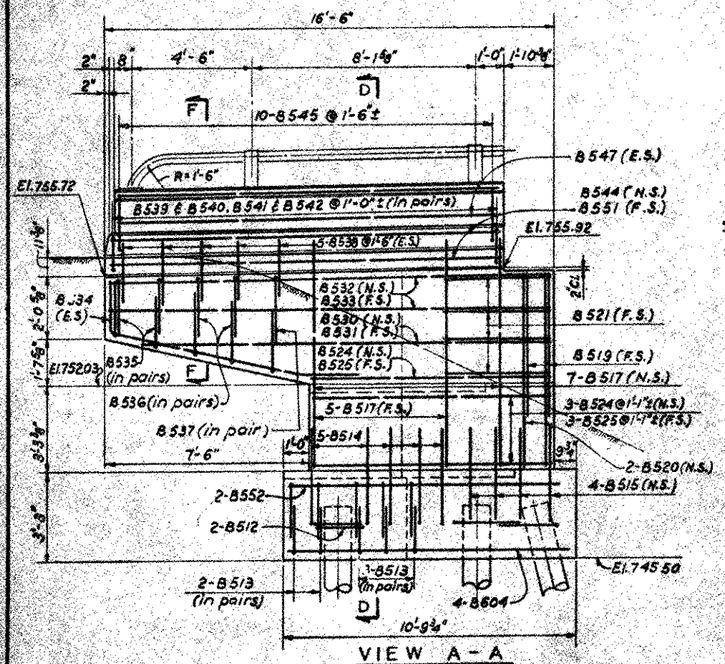
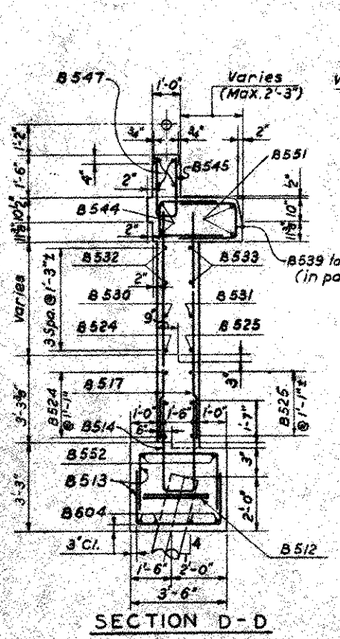


VIEW A-A



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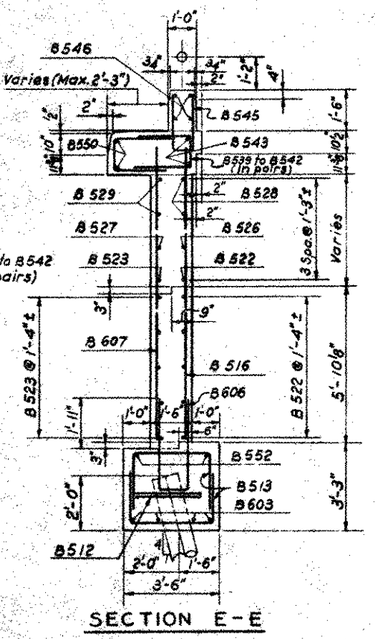

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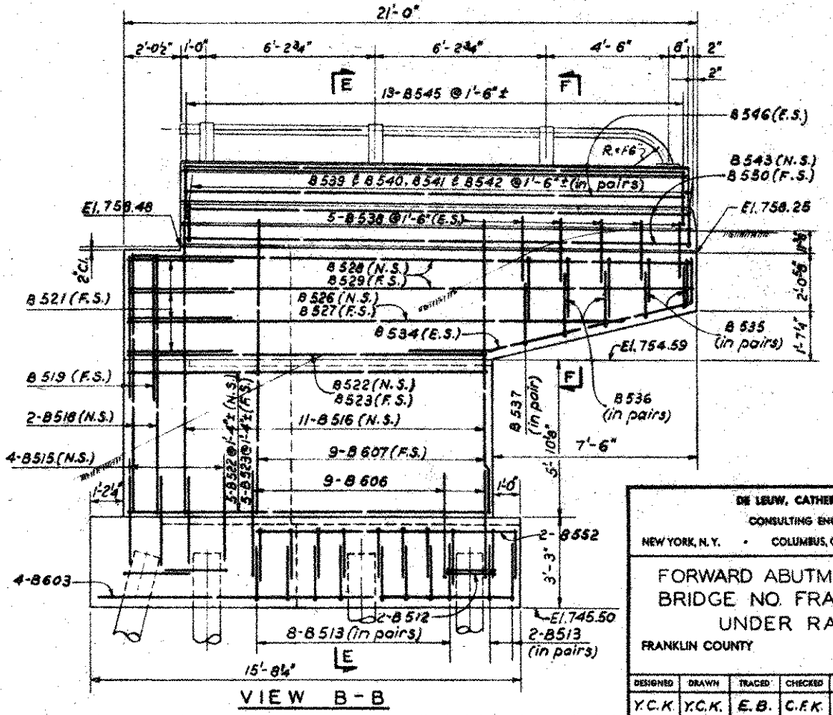

VIEW B-B

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FORWARD ABUTMENT DETAILS BRIDGE NO. FRA-200-0806 UNDER RAMP "A"

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374 + 25.15

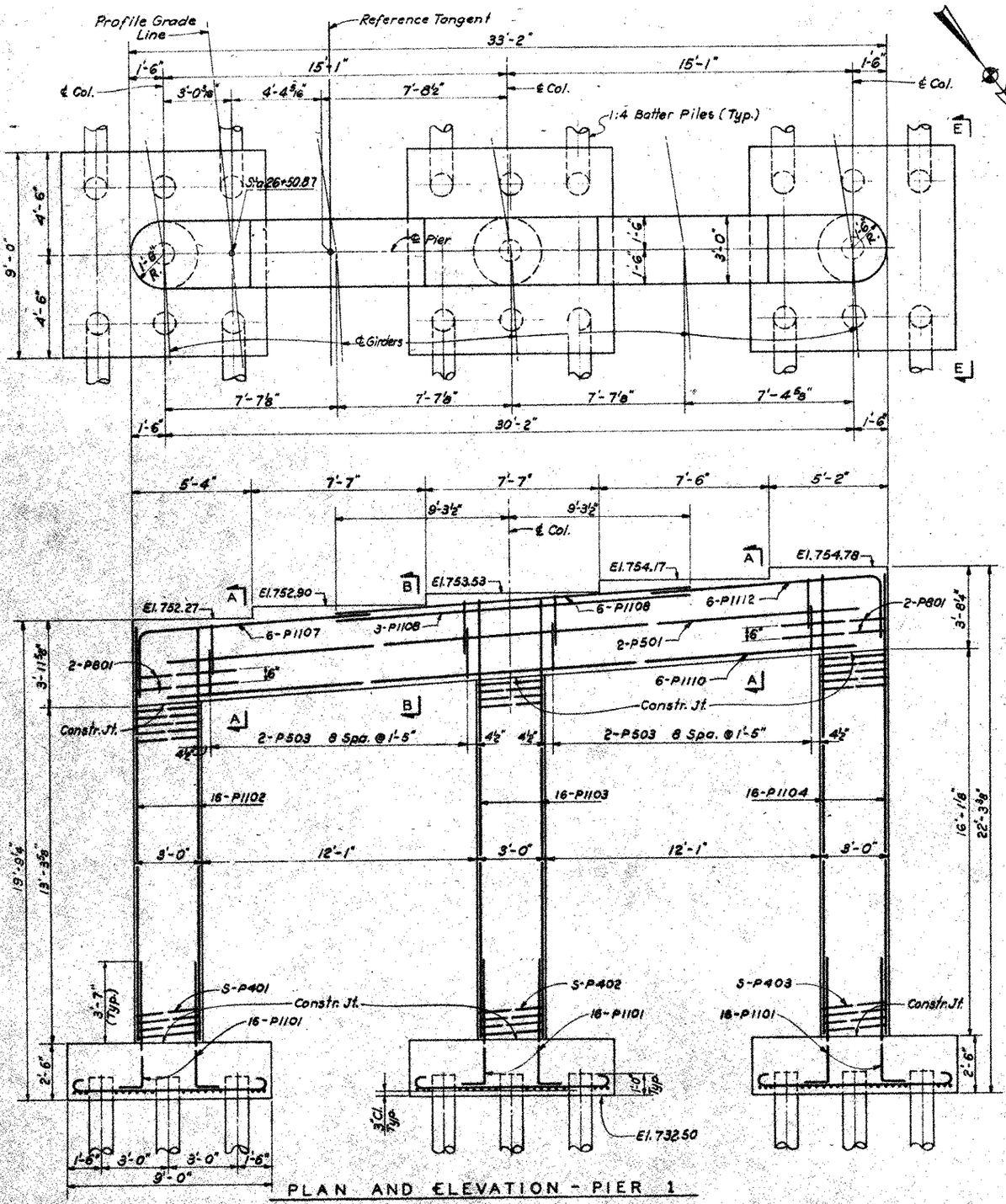
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
Y.C.K.	Y.C.K.	E.B.	C.F.K.	R.D.	9-61	

7

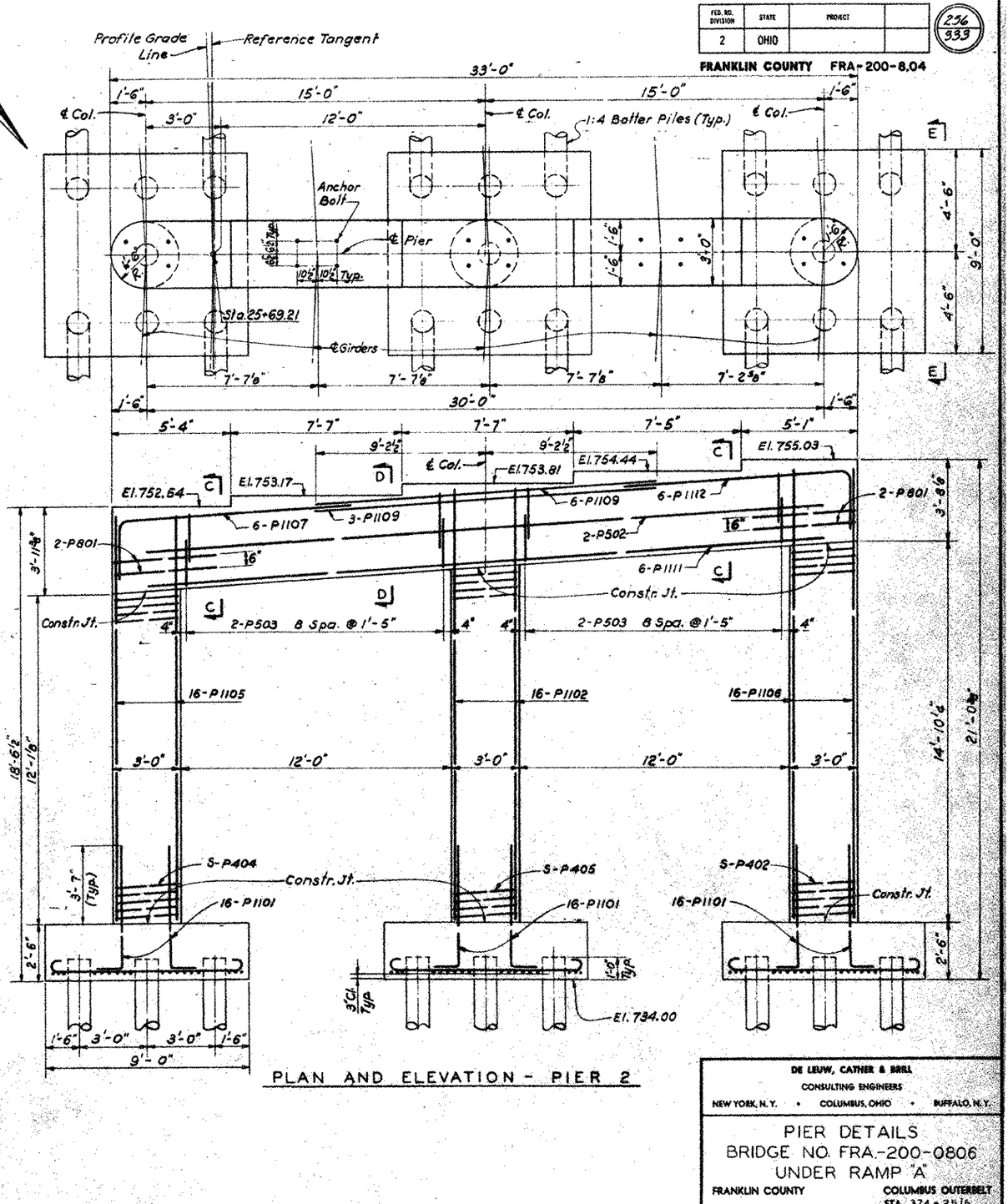
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

256
933

FRANKLIN COUNTY FRA-200-8.04



PLAN AND ELEVATION - PIER 1



PLAN AND ELEVATION - PIER 2

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PIER DETAILS
BRIDGE NO. FRA.-200-0806
UNDER RAMP "A"

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 374+25.15

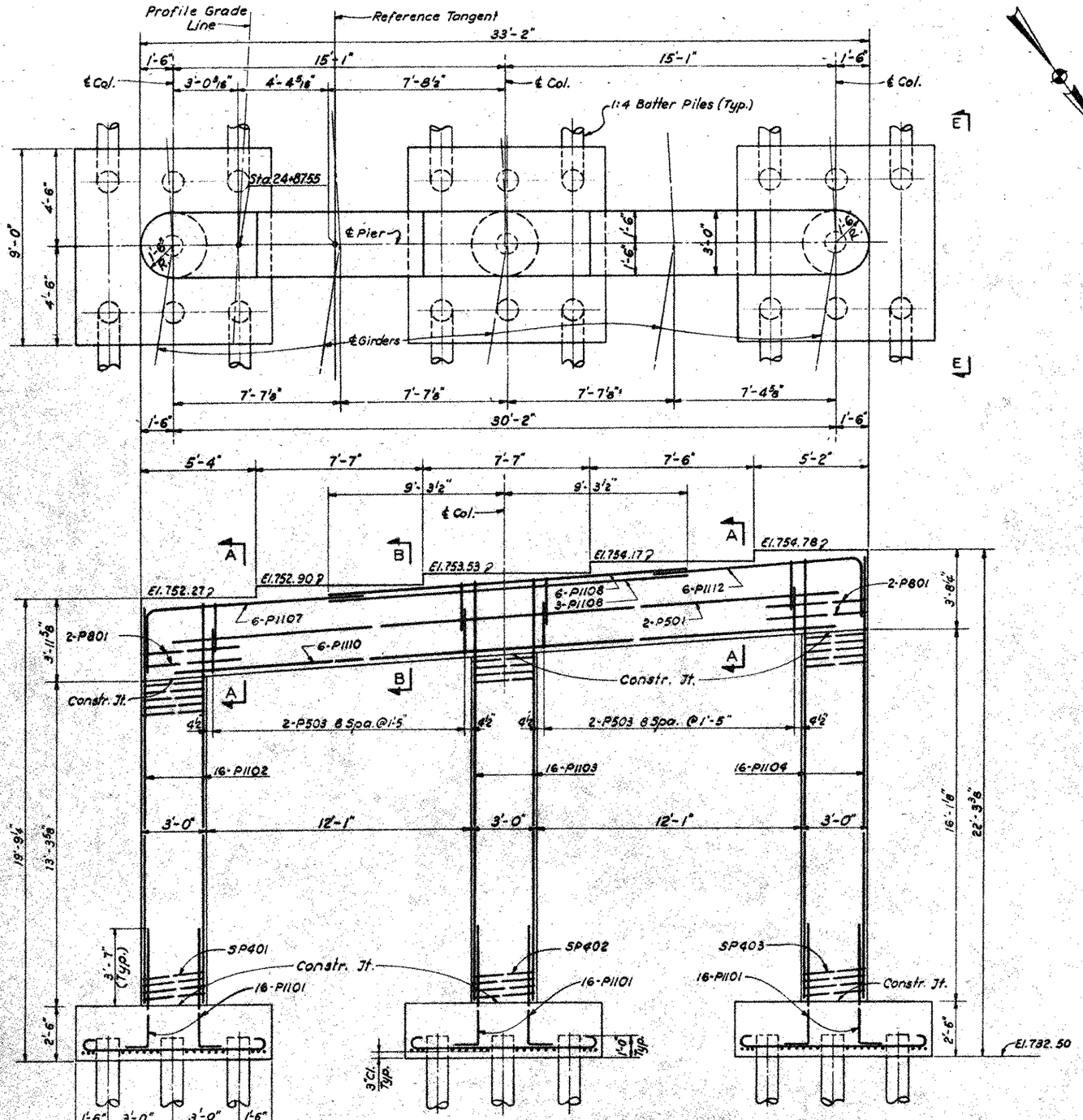
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	M.P.F.	M.P.F.	H.B.	R.D.	9-61	

8

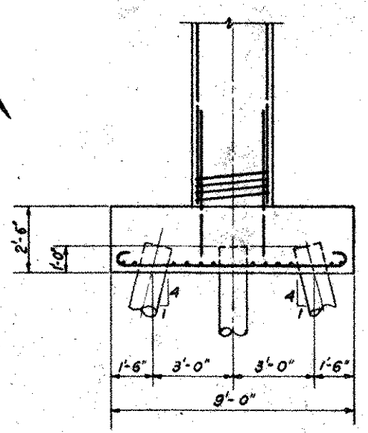
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

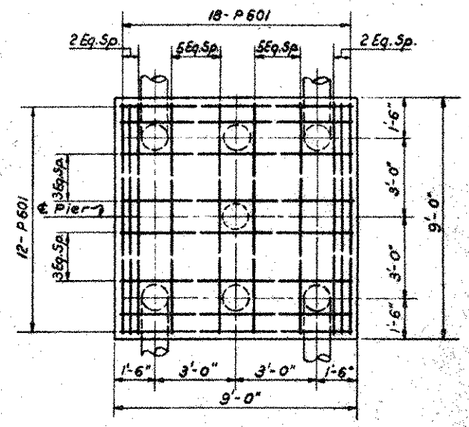
257
333



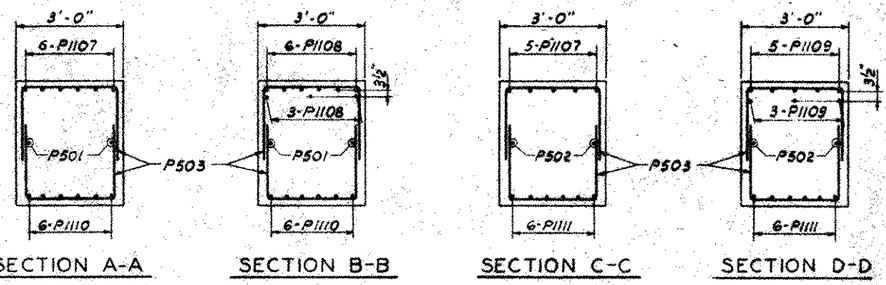
PLAN AND ELEVATION - PIER 3



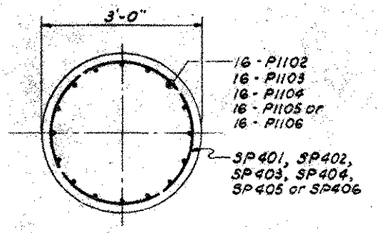
ELEVATION E - E



TYPICAL FOOTING PLAN



SECTION A-A SECTION B-B SECTION C-C SECTION D-D



TYPICAL SECTION THRU COLUMNS

PIER NOTES:

Special care shall be taken in placing reinforcing in the pier cap so that it will not interfere with the drilling of Bearing Plate Anchor Bolts.

Reinforcing steel shall clear the face of the concrete by 2", unless otherwise noted.

Piles: 12" ϕ Cast-in-place reinforced concrete 40 tons actual load.

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PIER DETAILS
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UNDER RAMP "A"

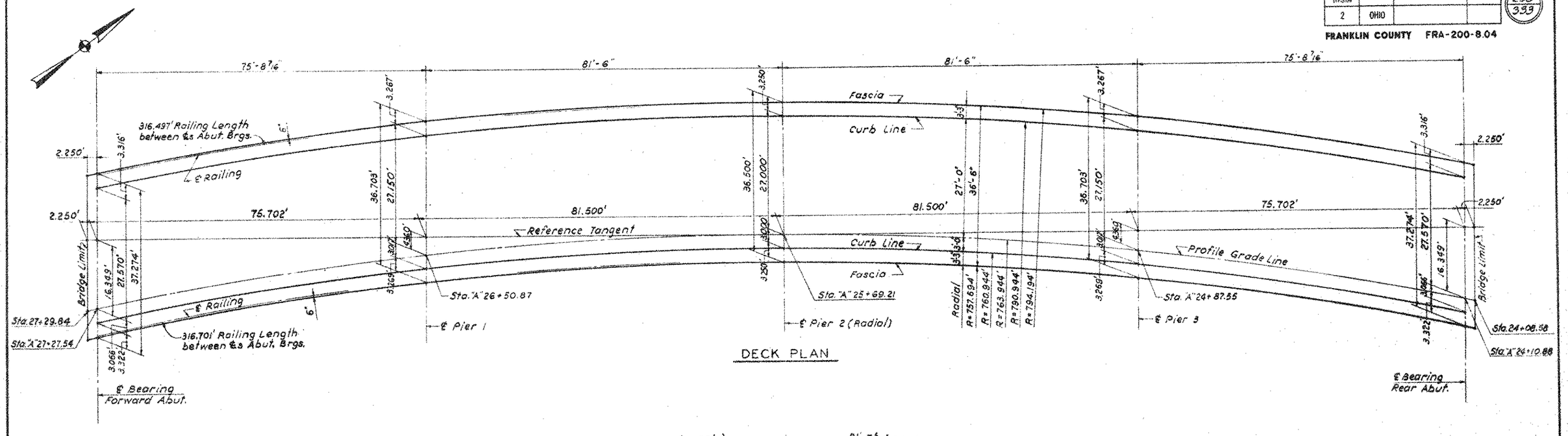
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 374 + 25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	M.P.F.	M.P.F.	H.B.	R.D.	9-61	

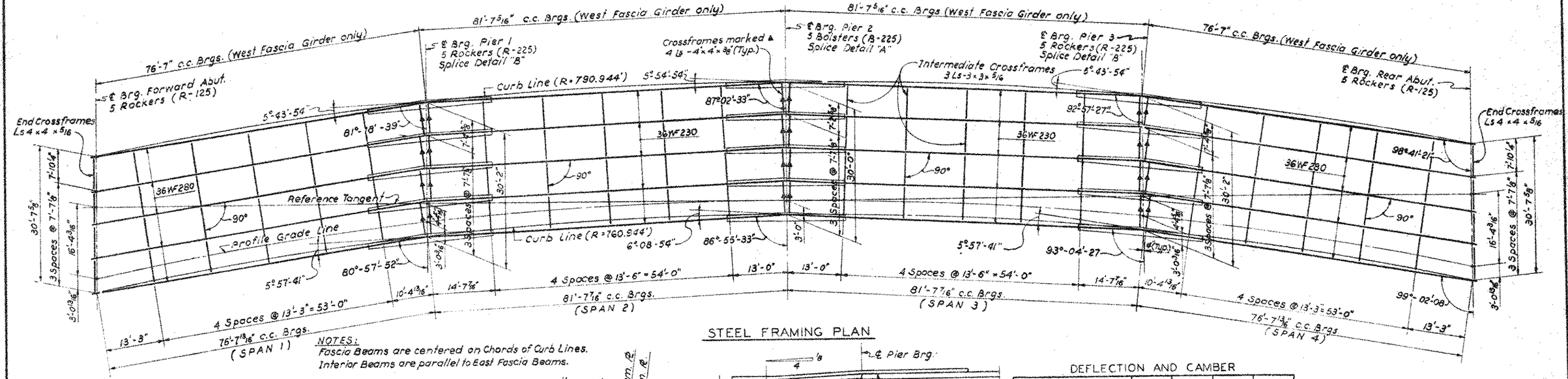
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

258
333

FRANKLIN COUNTY FRA-200-8.04



DECK PLAN

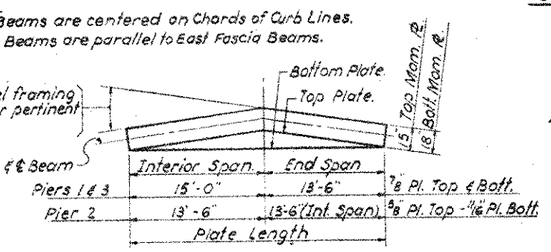


STEEL FRAMING PLAN

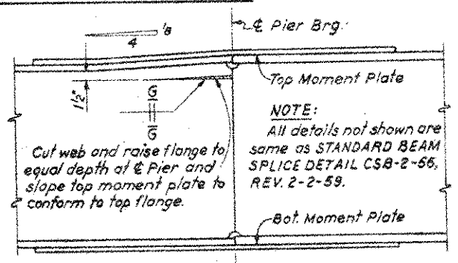
NOTES:
Fascia Beams are centered on Chords of Curb Lines.
Interior Beams are parallel to East Fascia Beams.

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at Pier No.2 3 1/16 inches.
2. Butt-weld beam flanges and web at Pier No.1 using the following sequence: Make two passes at each flange, then two on the web, repeat using one pass at each location until welds are completed.
3. Weld top and bottom moment plates at Pier No.1.
4. Lower end of beam at Pier No.2.
5. Make splice at Pier No.2 and Pier No.3 in the same manner raising the end of the beams 2 3/8 at Pier No.3 and 2 5/8 inches at the Rear Abutment.
6. Butt-Welds in webs of beams may have convex reinforcement in accordance with Sect.S-7.22. Finishing Flush by grinding is not required.



PLAN OF MOMENT PLATES



BEAM SPLICE DETAIL "B"

DEFLECTION AND CAMBER

LOCATION	SPAN 1	SPAN 2	SPAN 3	SPAN 4
Deflection due to weight of steel.	1/4" (D)	3/16" (D)	3/16" (D)	1/4" (D)
Deflection due to remaining dead load.	1" (D)	13/16" (D)	13/16" (D)	1" (D)
Camber required for vertical curve & super.	0"	0"	0"	0"
Sum of deflection & camber.	1 1/4" (D)	1" (D)	1" (D)	1 1/4" (D)
Required camber.	1 1/4" (C)	1" (D)	1" (D)	1 1/4" (D)

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SUPERSTRUCTURE DETAILS BRIDGE NO. FRA-200-0806 UNDER RAMP "A"

FRANKLIN COUNTY COLUMBUS OUTERBELT STA. 374 + 25.15

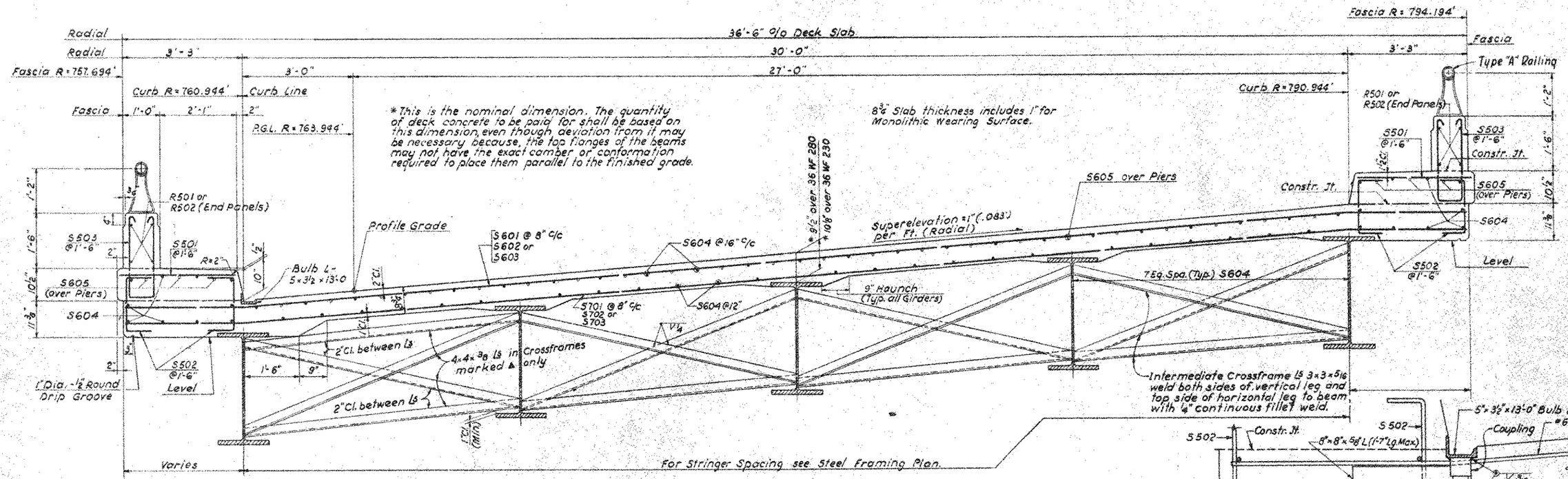
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.M.	L.M.	L.M.	H.B.	R.D.	9-61	3-19-62

10

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

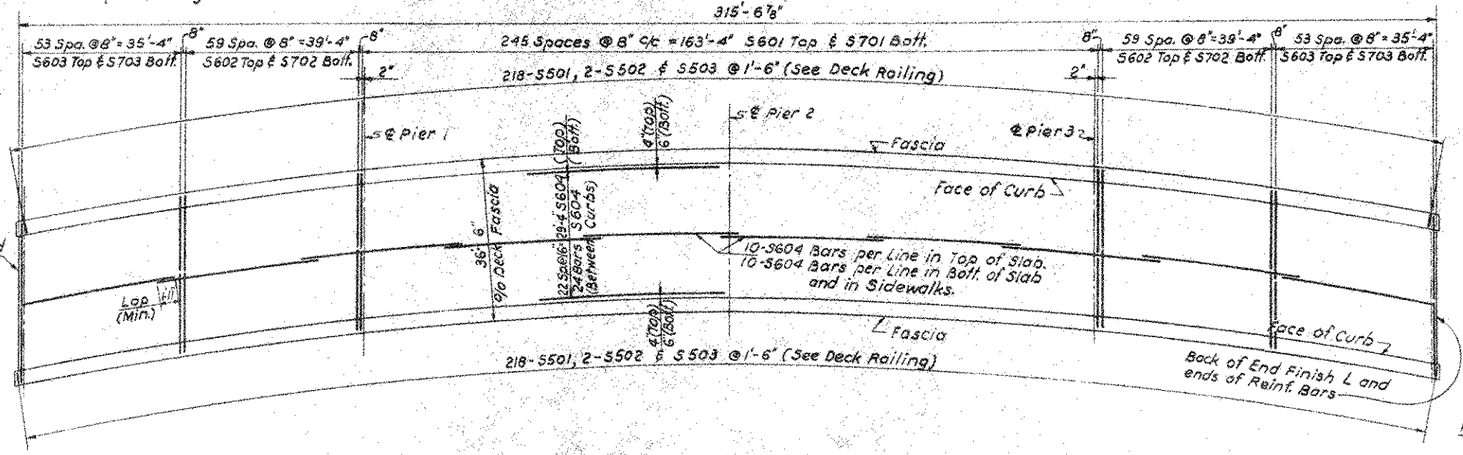
259
333

FRANKLIN COUNTY FRA-200-8.04

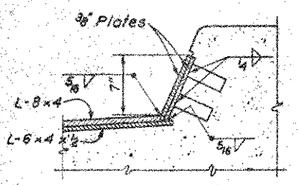


NOTE: The haunch in the superelevated deck slab adjacent to the top of steel beams, which is shown as 9" wide, may vary from this dimension between the limits of 6" and 12" on the low side and between 9" and 12" on the high side. Except on the high side, the maximum slope shall not exceed 3 inches per foot. Payment for deck slab concrete shall be based on the 9" width.

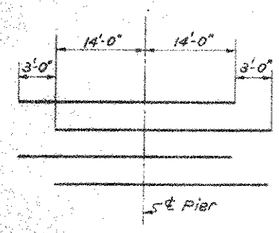
TRANSVERSE SECTION
(Looking Forward)



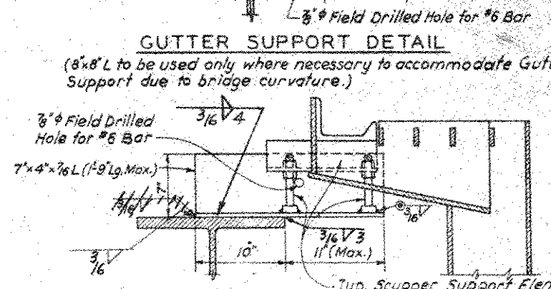
LAYOUT OF DECK REINFORCING STEEL



CURB PLATE DETAIL SECTION
(Without Bulb Angle Gutter at curb)



STAGGER OF S605 BARS OVER PIERS



GUTTER SUPPORT DETAIL
(8" x 8" L to be used only where necessary to accommodate Gutter Support due to bridge curvature.)

SECTION K-K THROUGH SCUPPER
(7" x 4" L to be used only where necessary to accommodate two Bolts due to bridge curvature.)
For location Section K-K see Std. Dwg. CSB-2-56, Sh. No. 3.

NOTE:
Estimated Weight of Gutter and Scupper Supports is included in Item S-7 Structural Steel.

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SUPERSTRUCTURE DETAILS
BRIDGE NO. FRA.-200-0806
UNDER RAMP "A"
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 374 + 25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	L.M.	L.M.	H.B.	R.D.	9-61	2-4-57

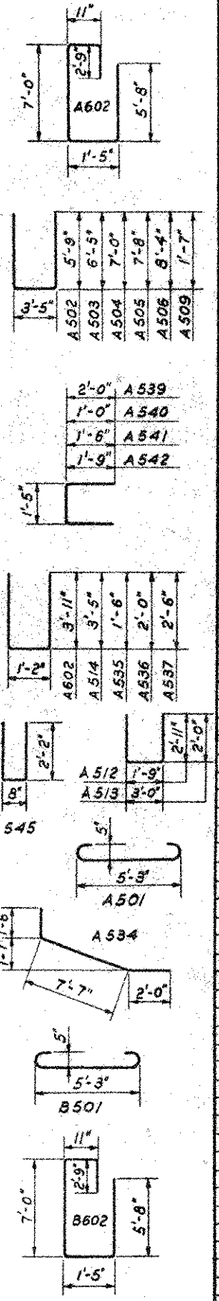
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

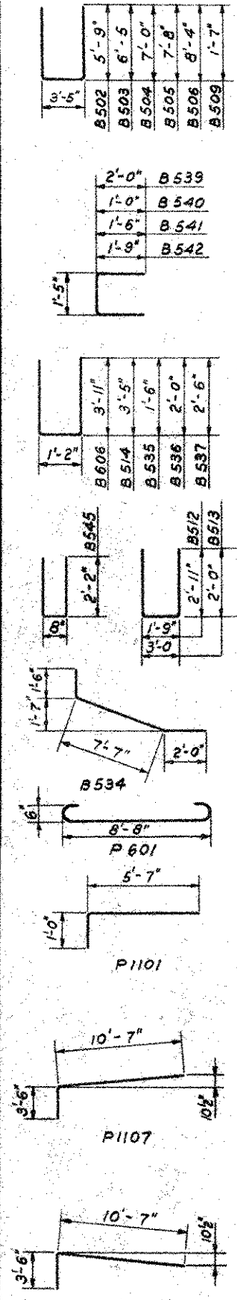
260
393

FRANKLIN COUNTY FRA-200-8.04

REINFORCING STEEL LIST

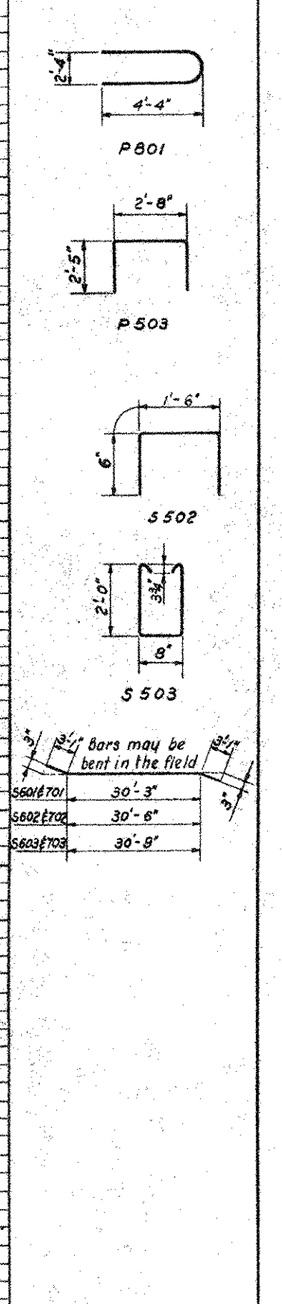
MARK	No.	LENGTH	WEIGHT	SHP
REAR ABUTMENT				
A601	4	38'-6"	231	S
A602	31	17'-9"	826	B
A603	4	15'-2"	91	S
A604	4	10'-3"	62	S
A605	2	9'-0"	27	S
A606	9	9'-0"	122	B
A607	9	10'-9"	145	S
A501	33	6'-5"	221	B
A502	7	14'-11"	109	B
A503	7	16'-3"	119	B
A504	6	17'-5"	109	B
A505	7	18'-9"	137	B
A506	4	20'-1"	84	B
A507	6	36'-7"	229	S
A508	4	21'-0"	88	S
A509	46	6'-7"	316	B
A510	10	36'-2"	377	S
A511	2	17'-3"	36	S
A512	20	7'-7"	158	B
A513	30	7'-0"	219	B
A514	5	8'-0"	42	B
A515	8	3'-2"	26	S
A516	11	10'-7"	121	S
A517	12	8'-3"	103	S
A518	2	9'-0"	19	S
A519	4	5'-2"	21	S
A520	2	7'-6"	16	S
A521	8	3'-6"	29	S
A522	6	13'-2"	82	S
A523	6	11'-2"	70	S
A524	4	8'-8"	36	S
A525	4	6'-10"	29	S
A526	1	18'-4"	19	S
A527	1	16'-2"	17	S
A528	2	20'-8"	43	S
A529	2	18'-8"	39	S
A530	1	13'-9"	14	S
A531	1	11'-8"	13	S
A532	2	16'-2"	34	S
A533	2	14'-2"	30	S
A534	4	11'-1"	46	B
A535	8	4'-2"	35	B
A536	8	5'-2"	43	B
A537	4	6'-2"	26	B
A538	20	2'-6"	52	S
A539	34	5'-5"	192	B
A540	4	3'-5"	14	B
A541	4	4'-5"	18	B
A542	4	4'-11"	21	B
A543	2	18'-6"	39	S
A544	2	14'-0"	29	S
A545	23	5'-0"	120	B
A546	4	18'-4"		S
A547	4	14'-0"		S
A548	8	8'-0"	67	S
A549	8	6'-0"	50	S
A550	2	18'-1"	38	S
A551	2	14'-6"	30	S
A552	4	9'-6"	40	S
FORWARD ABUTMENT				
B601	4	38'-6"	231	S
B602	31	17'-9"	826	B
B603	4	15'-2"	91	S
B604	4	10'-3"	62	S
B605	2	9'-0"	27	S
B606	9	9'-0"	122	B
B607	9	10'-9"	145	S
B501	33	6'-5"	221	B
B502	7	14'-11"	109	B
B503	7	16'-3"	119	B
B504	6	17'-5"	109	B
B505	7	18'-9"	137	B
B506	4	20'-1"	84	B
B507	6	36'-7"	229	S
B508	4	21'-0"	88	S





MARK	No.	LENGTH	WEIGHT	SHP
FORWARD ABUTMENT (Cont'd.)				
B509	46	6'-7"	316	B
B510	10	36'-2"	377	S
B511	2	17'-3"	36	S
B512	20	7'-7"	158	B
B513	30	7'-0"	219	B
B514	5	8'-0"	42	B
B515	9	3'-2"	26	S
B516	11	10'-7"	121	S
B517	12	8'-3"	103	S
B518	2	9'-0"	19	S
B519	4	5'-2"	21	S
B520	2	7'-6"	16	S
B521	8	3'-6"	29	S
B522	6	13'-2"	82	S
B523	6	11'-2"	70	S
B524	4	8'-8"	36	S
B525	4	6'-10"	29	S
B526	1	18'-4"	19	S
B527	1	16'-2"	17	S
B528	2	20'-8"	43	S
B529	2	18'-8"	39	S
B530	1	13'-9"	14	S
B531	1	11'-8"	13	S
B532	2	16'-2"	34	S
B533	2	14'-2"	30	S
B534	4	11'-1"	46	B
B535	8	4'-2"	35	B
B536	8	5'-2"	43	B
B537	4	6'-2"	26	B
B538	20	2'-6"	52	S
B539	34	5'-5"	192	B
B540	4	3'-5"	14	B
B541	4	4'-5"	18	B
B542	4	4'-11"	21	B
B543	2	18'-6"	39	S
B544	2	14'-0"	29	S
B545	23	5'-0"	120	B
B546	4	18'-4"		S
B547	4	14'-0"		S
B548	8	8'-0"	67	S
B549	8	6'-0"	50	S
B550	2	18'-1"	38	S
B551	2	14'-6"	30	S
B552	4	9'-6"	40	S
PIERS				
P1101	144	6'-7"	5037	B
P1102	48	17'-0"	4335	S
P1103	32	18'-3"	3102	S
P1104	32	19'-6"	3315	S
P1105	16	15'-9"	1339	S
P1106	16	18'-3"	1551	S
P1107	18	14'-1"	1347	B
P1108	18	18'-7"	1777	S
P1109	9	18'-5"	881	S
P1110	12	30'-2"	1923	S
P1111	6	30'-0"	956	S
P1112	18	14'-1"	1347	B
P801	12	10'-0"	320	B
P601	270	10'-0"	4055	B
P501	4	30'-2"	126	S
P502	2	30'-0"	62	S
P503	108	7'-6"	844	B

MARK	No.	LENGTH	WEIGHT	SHP
SUPERSTRUCTURE				
S701	246	36'-5"	18313	B
S702	120	36'-8"	8994	B
S703	108	36'-11"	8150	B
S601	246	36'-5"	13457	B
S602	120	36'-8"	6609	B
S603	108	36'-11"	5989	B
S604	670	33'-5"	33629	S
S605	84	31'-0"	3911	S
S501	436	2'-11"	1328	S
S502	872	2'-6"	2274	B
S503	436	5'-8"	2577	B
RAILING				
R501	144	15'-10"		S
R502	16	13'-5"		S
REPLACEMENT BARS				
RE1101	3	7'-7"	—	S
RE901	1	6'-10"	—	S
RE801	1	6'-6"	—	S
RE701	3	6'-3"	—	S
RE601	3	5'-11"	—	S
RE501	2	5'-7"	—	S



SPIRAL REINFORCING BARS

MARK	No.	CORE DIAM. % SPIRAL	LENGTH	PITCH	# OF TURNS	WEIGHT
SP401	2	32	13'-5"	3	57	712
SP402	3	32	14'-9"	3	62	1162
SP403	2	32	16'-0"	3	67	838
SP404	1	32	12'-3"	3	52	324
SP405	1	32	13'-5"	3	57	356

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. For example, P 901 is a No. 9 size and P1001 is a No. 10 size.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing laboratory, test samples as provided in Sec. S-402 need not be furnished and replacement bars will not be required.

SPIRAL REINFORCING BARS: The "length" shown in the steel list for 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 deformations but shall in other respect conform to item S-4. 1½" closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers weighing approximately 0.68 lb per linear ft. of spacer, 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 0.68 lb. per lin. ft., will be payed for as reinforcing steel and is included in the tabulated quantity of spiral bars.

PARAPET BARS: Horizontal Parapet Bars A546, 547; B546, 547 and R501, 502 are included with Item S-14 for payment together with concrete in parapet.

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REINFORCING STEEL LIST
BRIDGE NO. FRA-200-0806
UNDER RAMP "A"
FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 374+25.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
Y.C.K.	I.P.	E.B.	H.B. C.F.K.	R.D.	9-61	12-18-61

12

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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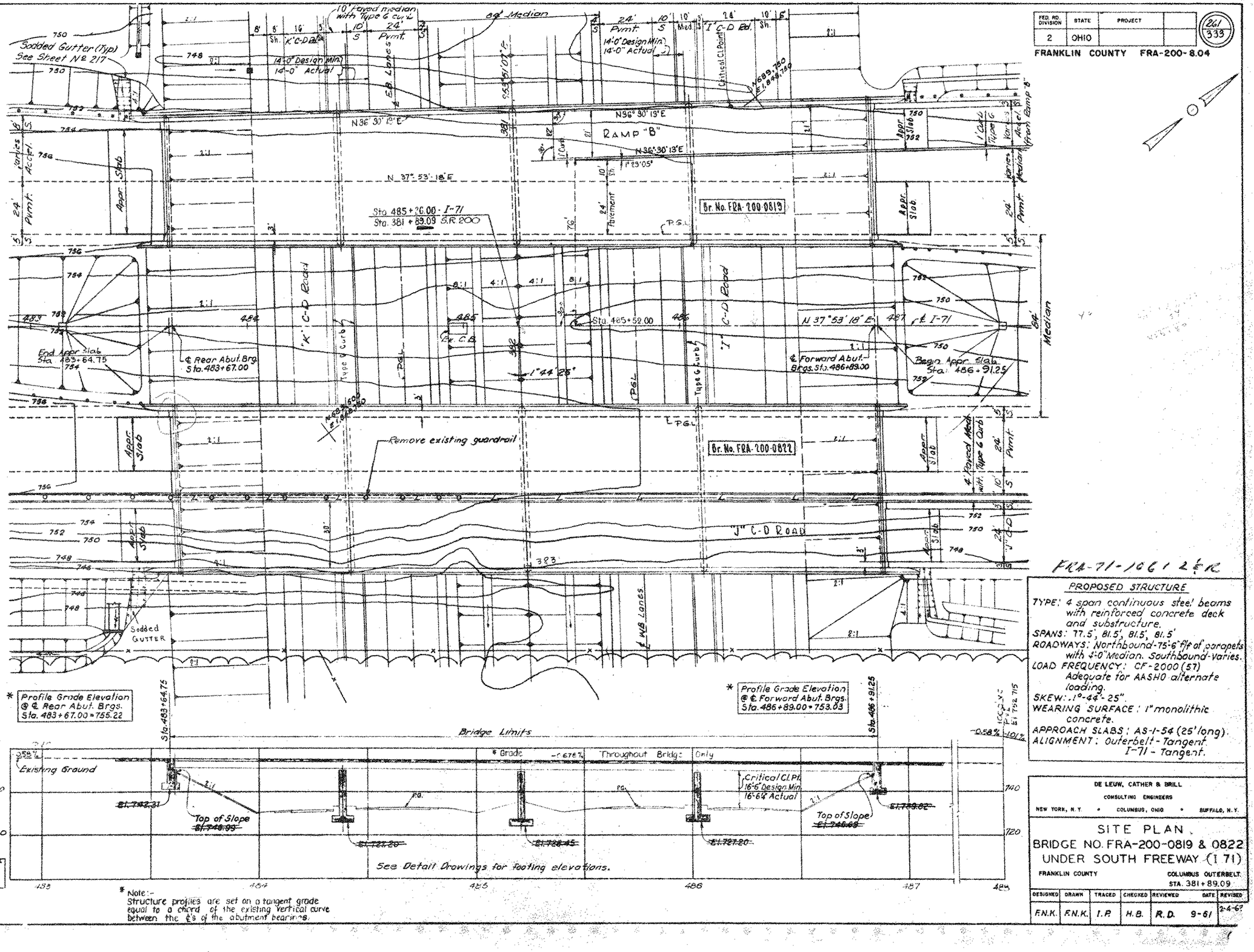
FRANKLIN COUNTY FRA-200-8.04

FOUNDATION SOUNDINGS:

Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division Office, but the State does not guarantee the accuracy there of.



Profile Grade Line Elevations at ℄ Abutment Bearings		
Struct.	Station	Elev.
Southbnd.	483+64.75	755.23
Southbnd.	486+87.73	753.04
Northbnd.	483+57.28	755.22
Northbnd.	486+90.27	753.03

* Profile Grade Elevation @ ℄ Rear Abut. Brgs. Sta. 483+67.00 = 755.22

* Profile Grade Elevation @ ℄ Forward Abut. Brgs. Sta. 486+89.00 = 753.03

B.M.- RR. Spike in W. side 36" locust 12.5' ± Rt. Sta. 374+30 ± ℄ C.B. Elev. 750.010

B.M.- Concrete monument in ℄ of median Sta. 480+00 ℄ I-71 Elev. 752.932

* Note:- Structure profiles are set on a tangent grade equal to a chord of the existing vertical curve between the ℄s of the abutment bearings.

FRA-71-10.61 2 & 3R

PROPOSED STRUCTURE

TYPE: 4 span continuous steel beams with reinforced concrete deck and substructure.
SPANS: 77.5', 81.5', 81.5', 81.5'
ROADWAYS: Northbound-75'-6" f/f of parapets with 4'-0" Median. Southbound-varies.
LOAD FREQUENCY: CF-2000 (57) Adequate for AASHO alternate loading.
SKEW: 1°-44'-25".
WEARING SURFACE: 1" monolithic concrete.
APPROACH SLABS: AS-1-54 (25' long).
ALIGNMENT: Outerbelt - Tangent I-71 - Tangent.

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SITE PLAN
BRIDGE NO. FRA-200-0819 & 0822 UNDER SOUTH FREEWAY (I 71)

FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.N.K.	F.N.K.	I.P.	H.B.	R.D.	9-61	2-4-62

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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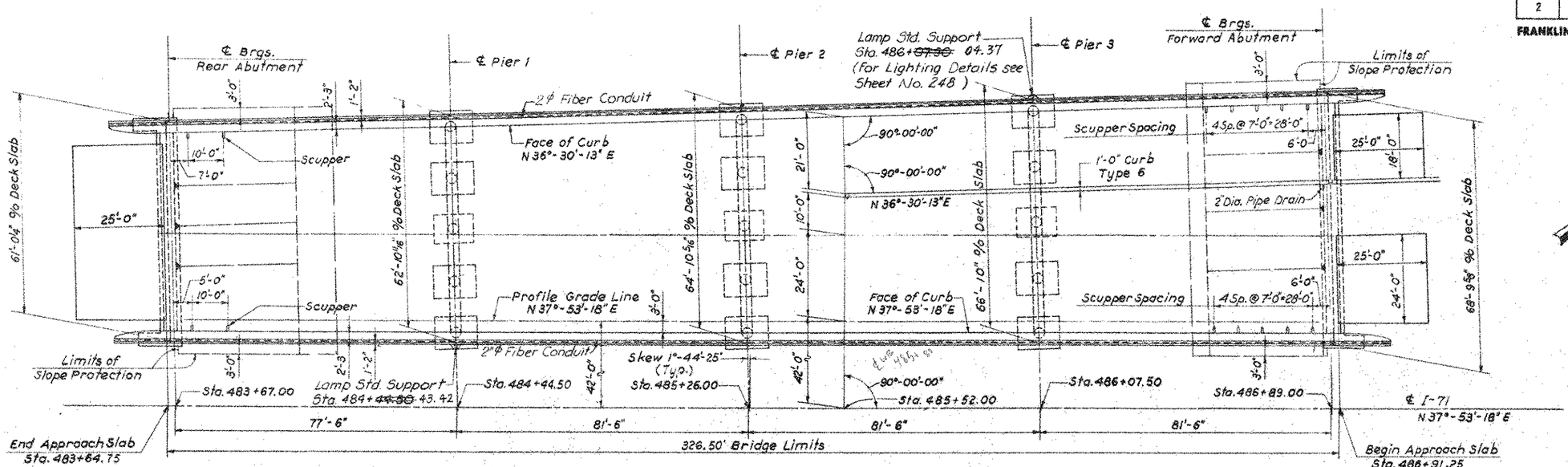
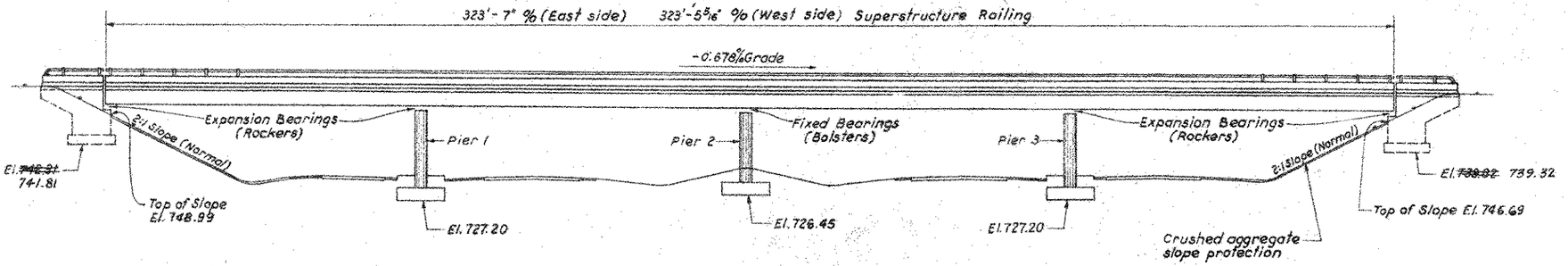
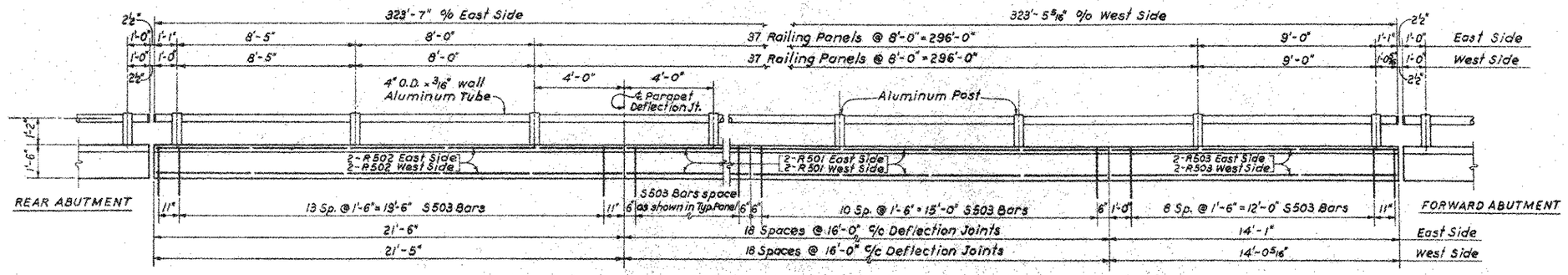
FRANKLIN COUNTY FRA-200-8.04



GENERAL PLAN



ELEVATION



PART ELEVATION OF DECK RAILING

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GENERAL PLAN & ELEVATION (089)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)
FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 361+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.Y.L.	H.B.	E.B.	H.B.	R.D.	8-61	2-4-63

(2)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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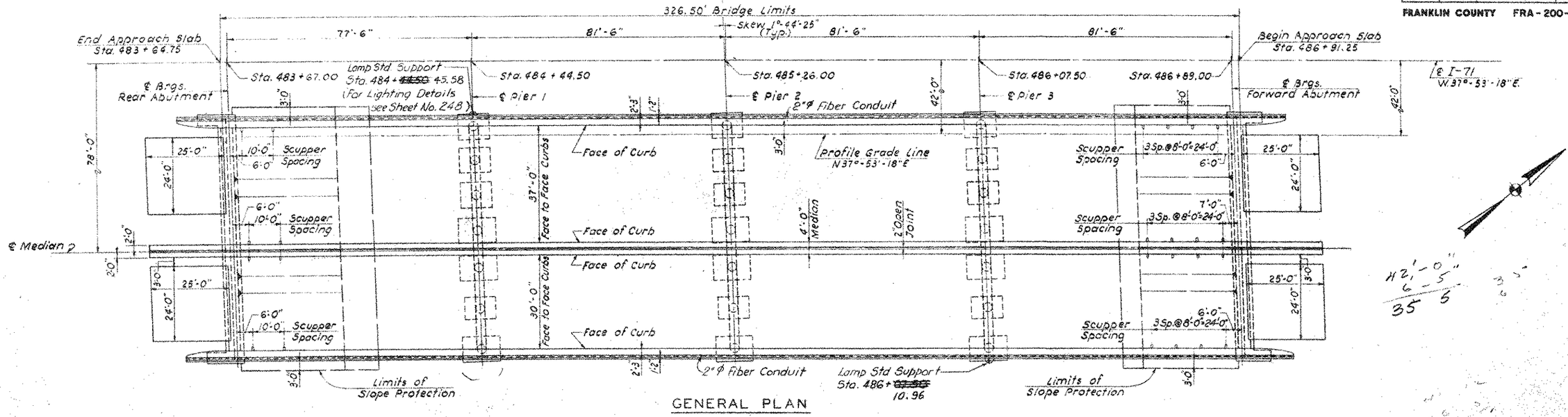
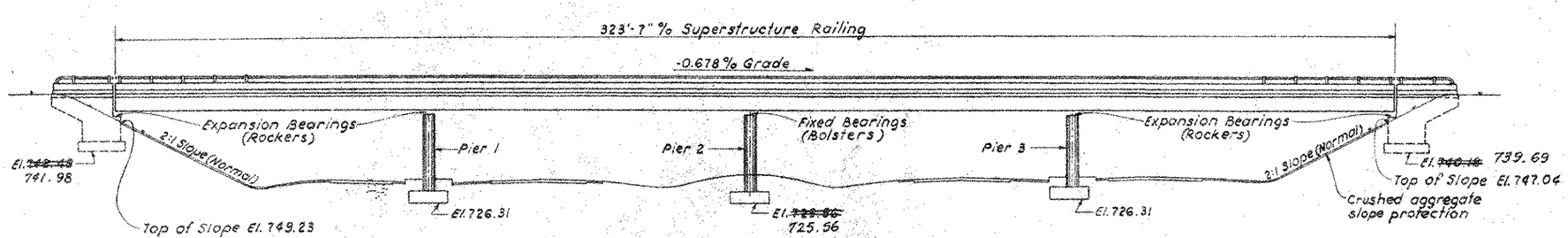
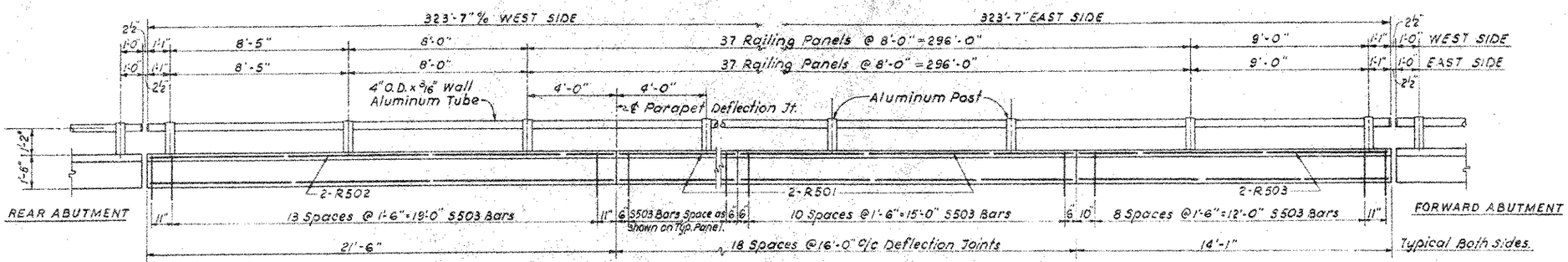
FRANKLIN COUNTY FRA-200-8.04



GENERAL PLAN



ELEVATION



PART ELEVATION OF DECK RAILING

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GENERAL PLAN & ELEVATION (082
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.Y.L.	E.B.	L.M.	H.B.	R.D.	8-61	2-4-6

3

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-200-8.04

ESTIMATED QUANTITIES

Item	Total	Unit	Description	BRIDGE NO. FRA-200-0819 Abuts.	Piers	Superstr.	Gen'l.			BRIDGE NO. FRA-200-0822 Abuts.	Piers	Superstr.	Gen'l.		
E-2	Lump	Sum	Cofferdams, Cribs and Sheeting				Lump						Lump		
E-2	1819	Cu. Yds.	Unclassified Excavation	294	545					342	638				
* S-1	1460	Cu. Yds.	Class "C" Concrete, superstructure			668						801			
S-1	317	Cu. Yds.	Class "C" Concrete, pier caps and columns		138						179				
S-1	396	Cu. Yds.	Class "E" Concrete, pier footings		194						202				
S-1	524	Cu. Yds.	Class "E" Concrete, abutments	244		524				280		136			
559,162															
* S-4	~~557,500~~	Lbs.	Reinforcing steel	14,000	~~51,800~~	183,748				16,100	~~72,700~~	219,248			
* S-7	2,004,180	Lbs.	Structural steel			894,090						1,110,090			
S-8	2,004,180	Lbs.	Field painting of structural steel			894,090						1,110,090			
S-14	1406	Lin. Ft.	Railing, (aluminum rail and supports, and concrete parapets)	56		647				56		647			
S-25			Lighting Quantities (See Note)												
S-29	38	Each	Scuppers			14						24			
S-29	131	Cu. Yds.	Porous backfill	60						71					
I-10	2680	Sq. Yds.	Crushed aggregate slope protection				1230						1450		
S-3	40	Lin. Ft.	Waterproofing, premaulded sealing strip	20						20					
Special	1467	Each	Water-reducing, set-retarding admixture *			667						800			

(* See Proposal Note)

* The quantities for items S-1, S-4, and S-7, tabulated on sheet no. 247, have been included in the superstructure quantity for these items.

GENERAL NOTES

REFERENCE shall be made to standard drawing RB-1-55 revised 2-2-59 AR-1-57 revised 4-2-62 and CSB-2-56, Sheets 1, 2 and 3 revised 2-2-59.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions thereof.

WELDING of structural steel shall be Class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress upgrade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

MACHINE FINISH: The top of the bridge deck slab shall be machine finished.

BEAM WEB WELDS: Butt welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. finishing flush by grinding is not required.

SHEET LEAD: Sheet lead shall conform to the requirements of A.S.T.M. Designation B29 without restriction to the Common Desilverised type.

SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per the plans and specifications, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the specifications regarding the use of chromate primers.

POROUS BACKFILL 2 feet thick, full length of abutment and wings (as per plan) shall extend up to the underside of the approach slab.

ABUTMENT BACKFILL below the bottom of porous backfill shall be placed and thoroughly compacted before the porous backfill is placed.

FOUNDATION BEARING PRESSURE: Abutments - 2 Tons/Sq.ft.
Piers - 3 Tons/Sq.ft.

LIGHTING QUANTITIES for this bridge shall be found listed item by item on the General Lighting Summary Sheet No. 247 and shall be bid by items as shown thereon and considered as part of the quantities for this bridge.

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GENERAL NOTES & ESTIMATED QUANTITIES
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.Y.L.	M.P.F.	M.P.F.	H.B.	R.D.	8-61	7-18-62

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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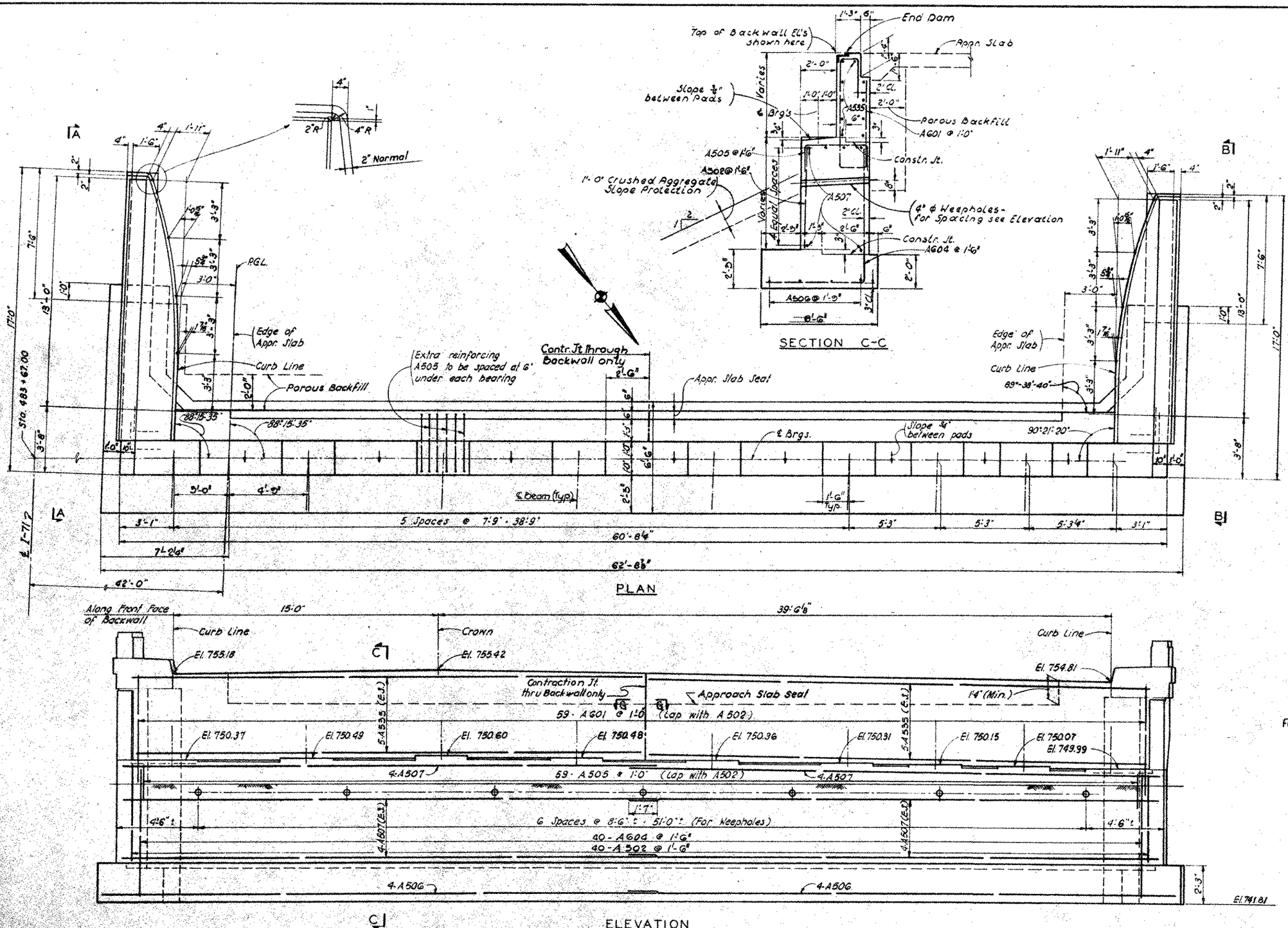
FRANKLIN COUNTY FRA-200-8.04



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REAR ABUTMENT DETAILS (081
BRIDGE NO. FRA-200-0819 & 082
UNDER SOUTH FREEWAY (I 71)

FRANKLIN COUNTY — COLUMBUS OUTERBEL
STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVIS
Y.C.K.	J.C.z.	S.S.	H.B.	R.D.	8-61	

5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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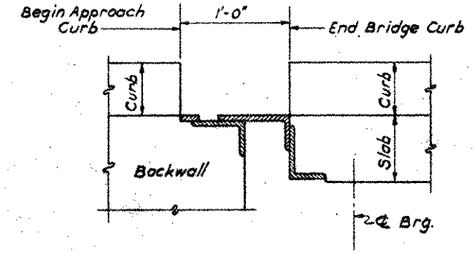
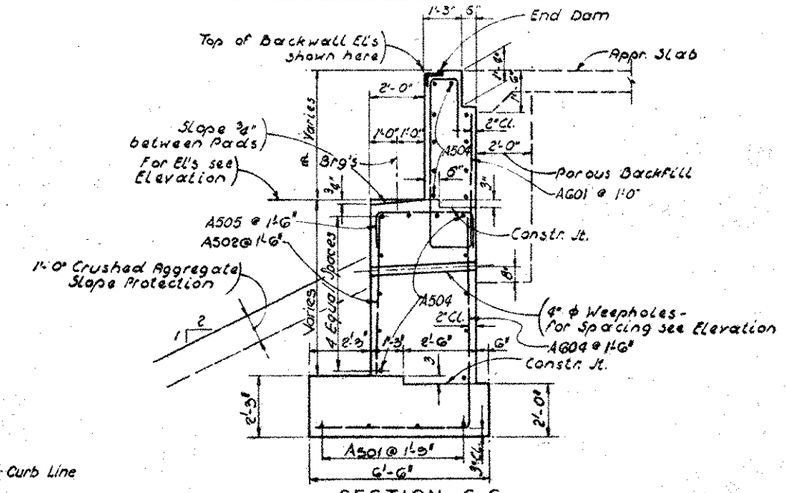
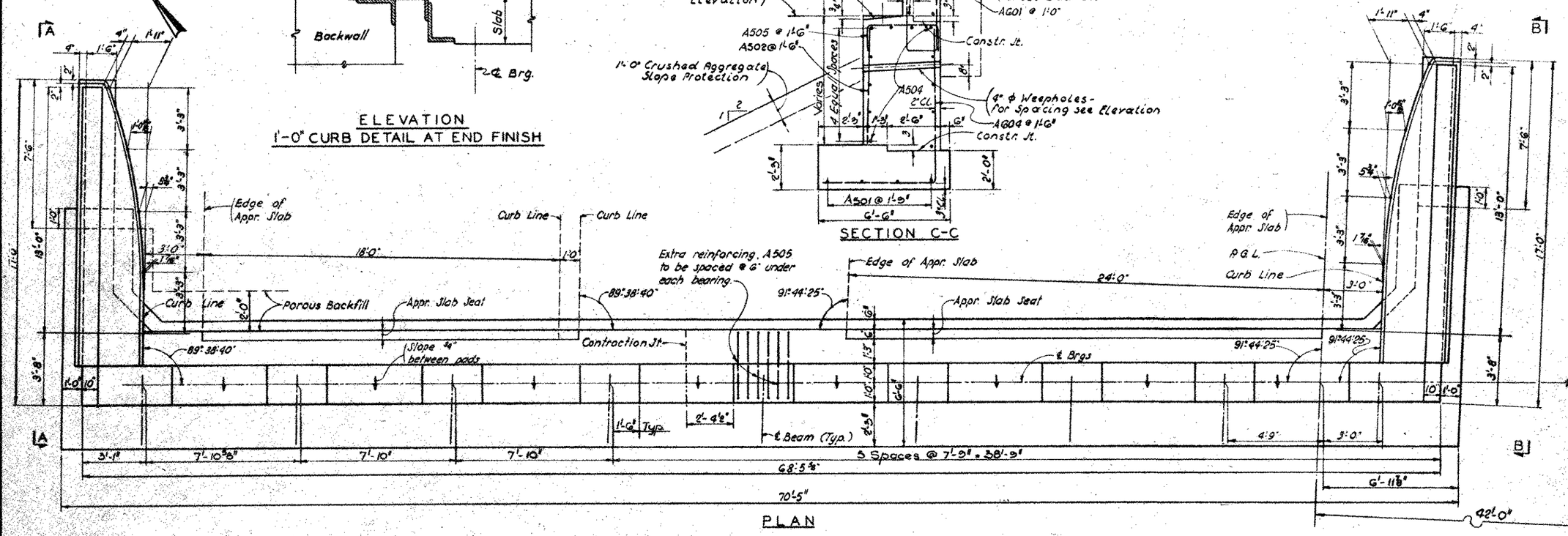


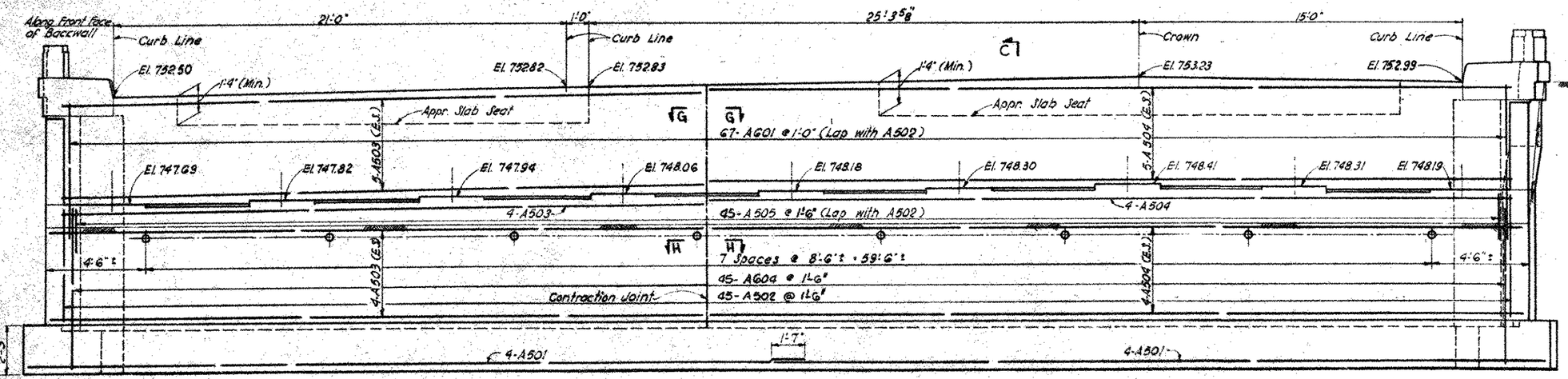
ELEVATION
1'-0" CURB DETAIL AT END FINISH



SECTION C-C



PLAN



ELEVATION

For Section G-G and H-H see Sheet N° 269

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FORWARD ABUTMENT DETAILS (0819)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)
FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
Y.C.K.	J.C.Z.	S.S.	H.B.	R.D.	8-61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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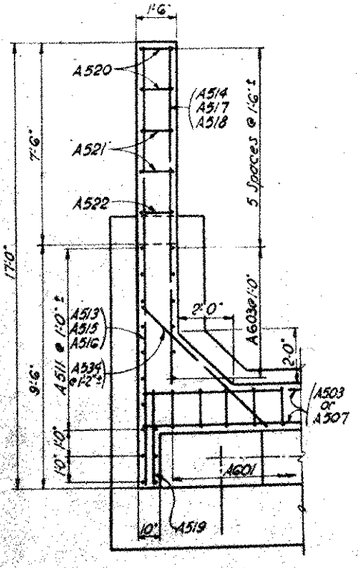
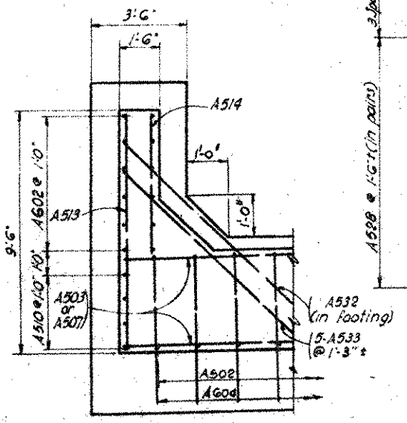
333

FRANKLIN COUNTY FRA-200-8.04



SECTION ABOVE BRIDGE SEAT



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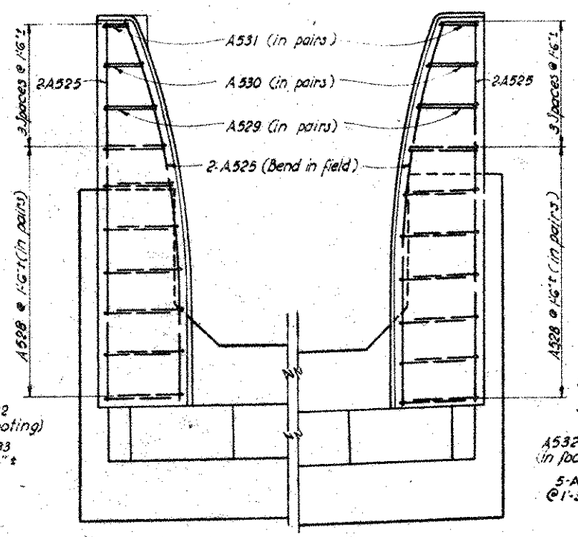
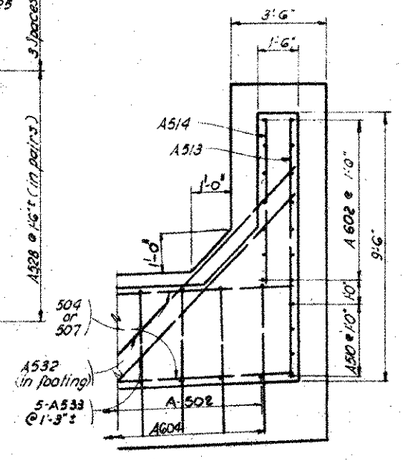


CURB REINFORCING DETAILS



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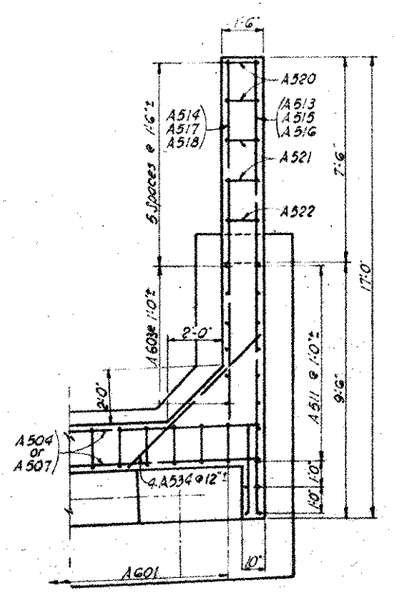

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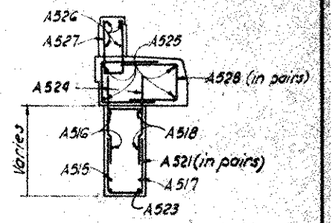

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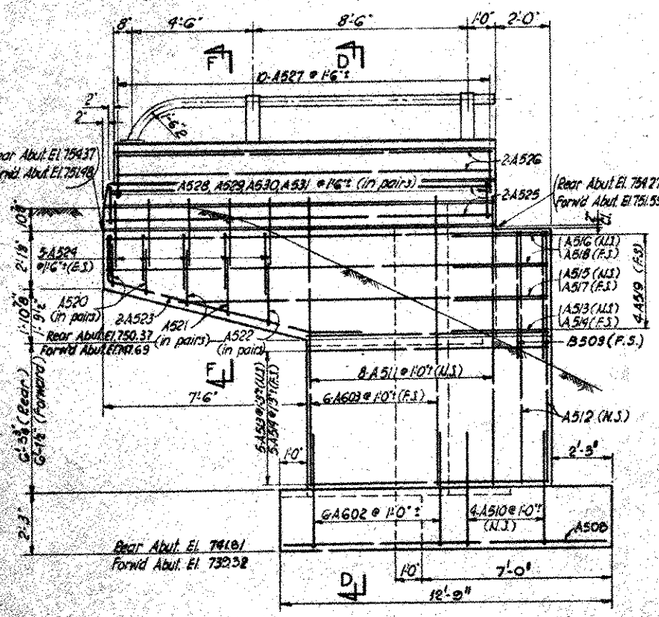
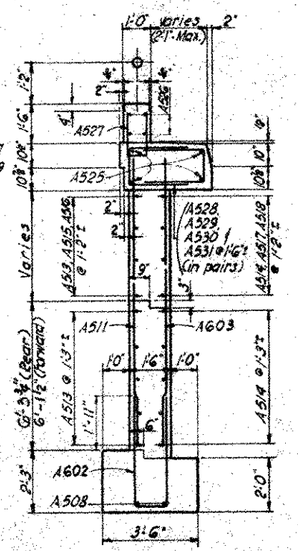
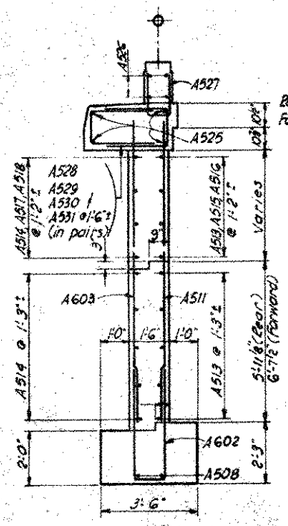


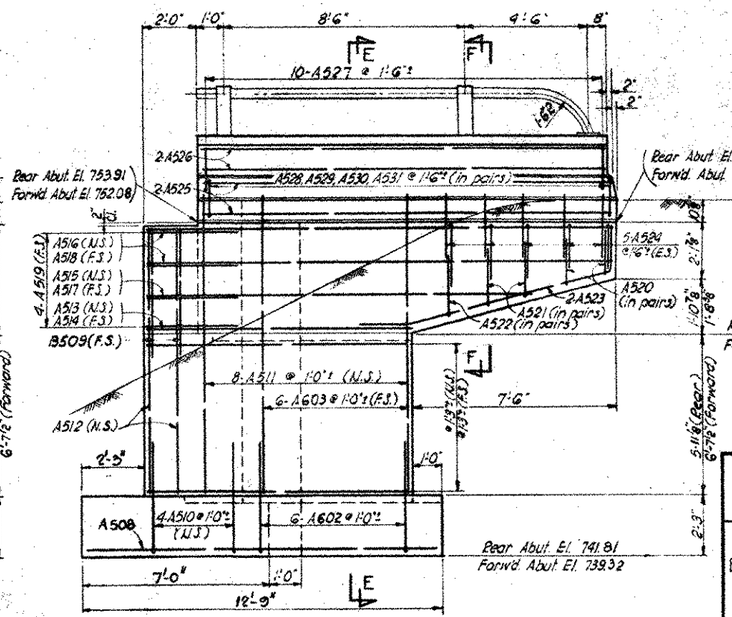
VIEW A-A



SECTION D-D



SECTION E-E



VIEW B-B

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WINGWALL DETAILS (0819)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)

FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 381+89.09

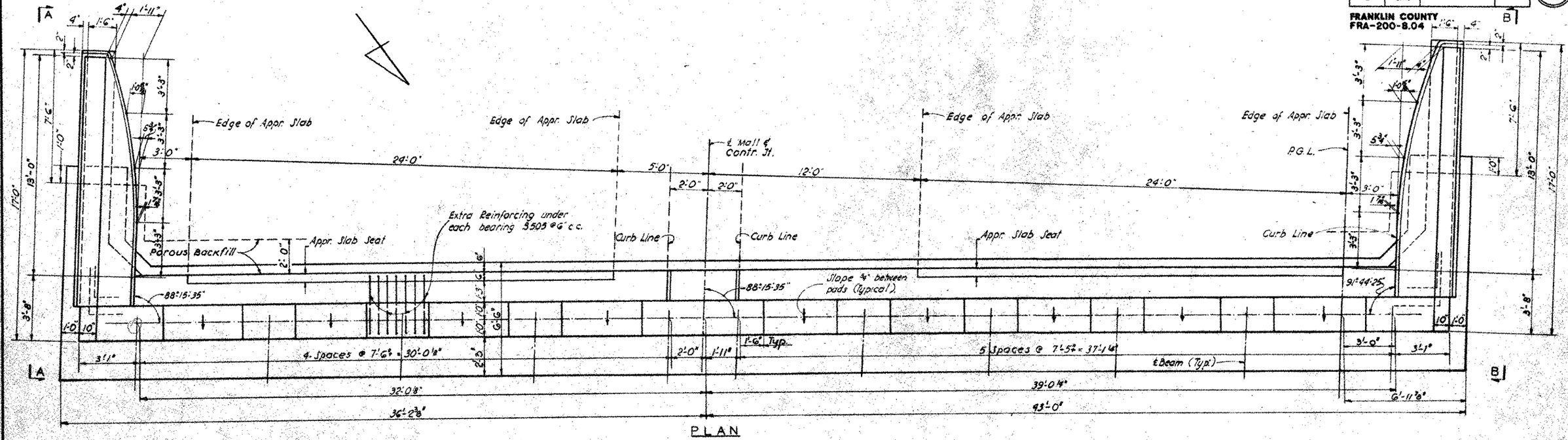
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.Cz.	J.Cz.	S.S.	H.B.	R.D.	8-'61	

7

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

268
333

FRANKLIN COUNTY
FRA-200-8.04



Note: For Sections G & H see Forward Abutment.

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REAR ABUTMENT DETAILS (0822)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)

FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 381 + 89.09

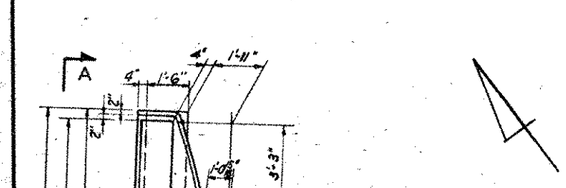
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.Cz.	J.Cz.	S.S.	H.B.	R.D.	8-61	

(8)

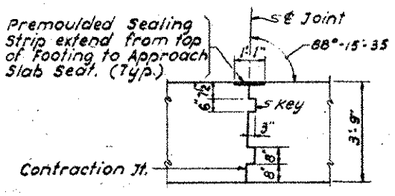
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

269
333

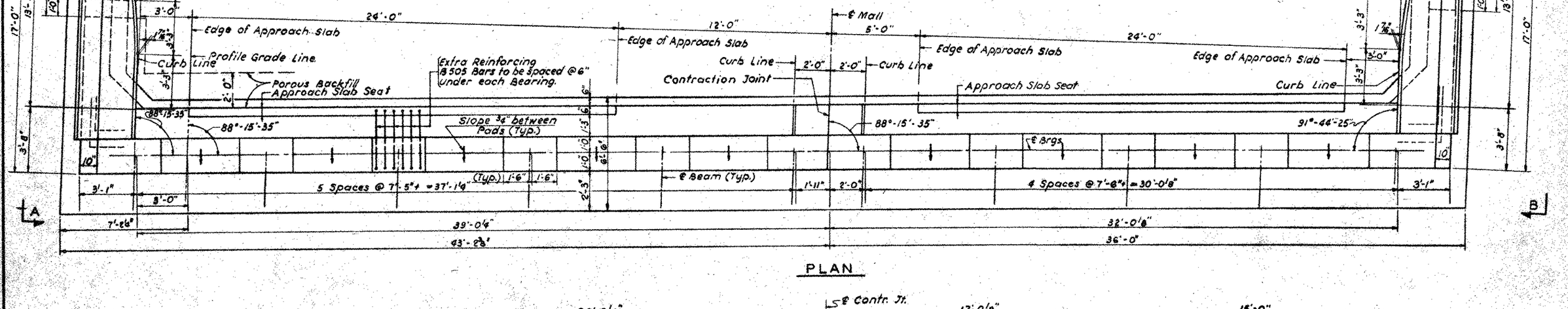
FRANKLIN COUNTY FRA-200-8.04



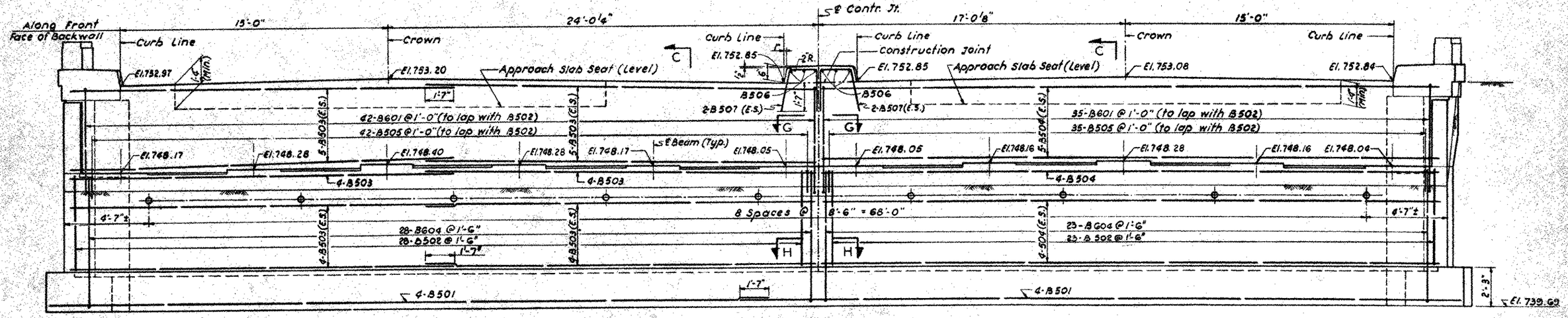
SECTION G-G



SECTION H-H



PLAN



ELEVATION

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FORWARD ABUTMENT DETAILS (0822)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)

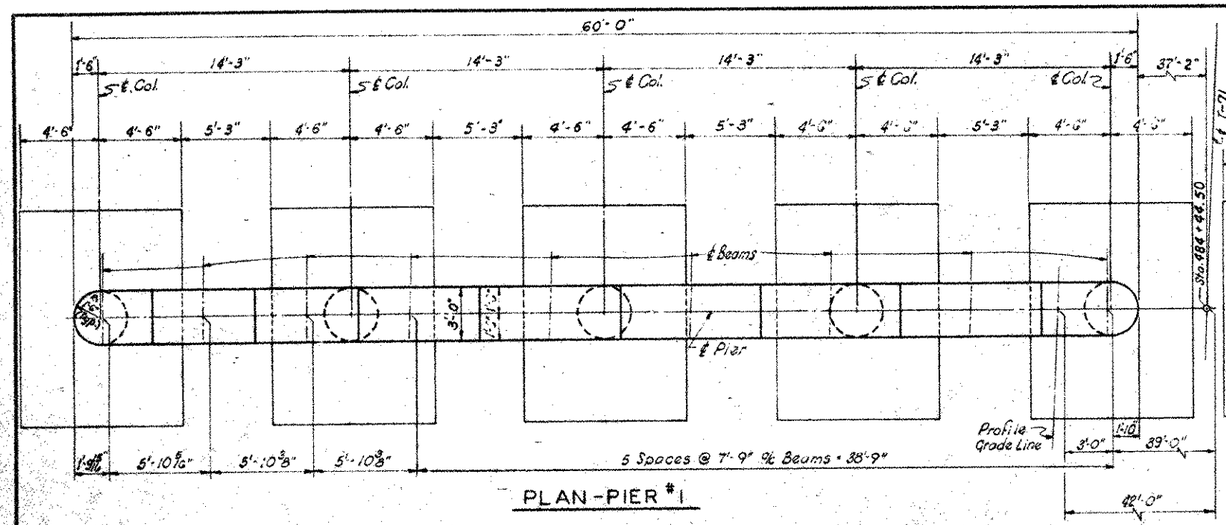
FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 361+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
Y.C.K.	J.Cz.	L.M.	H.B.	R.O.	8-61	

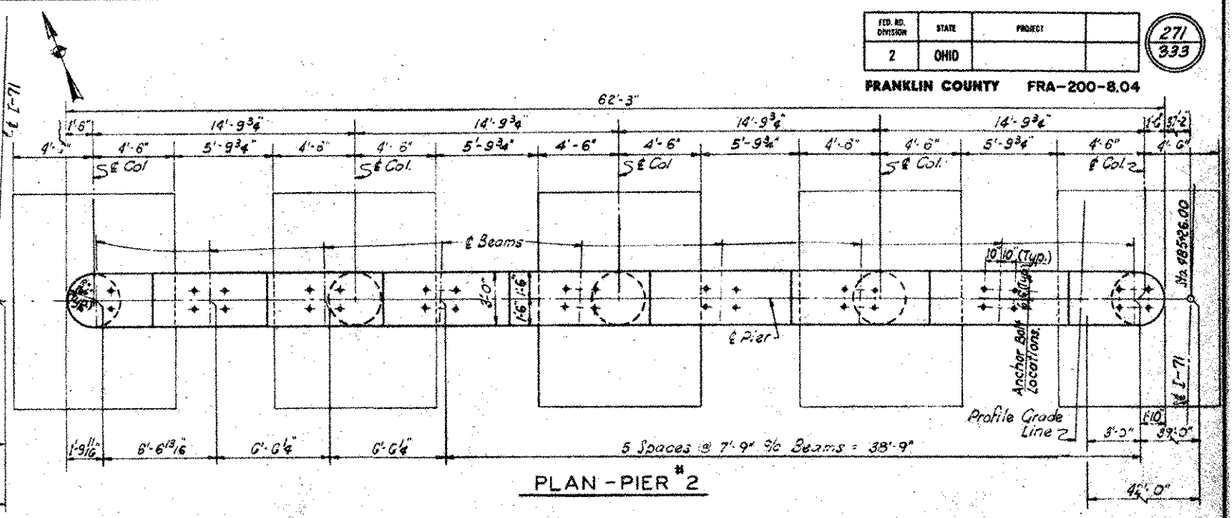
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

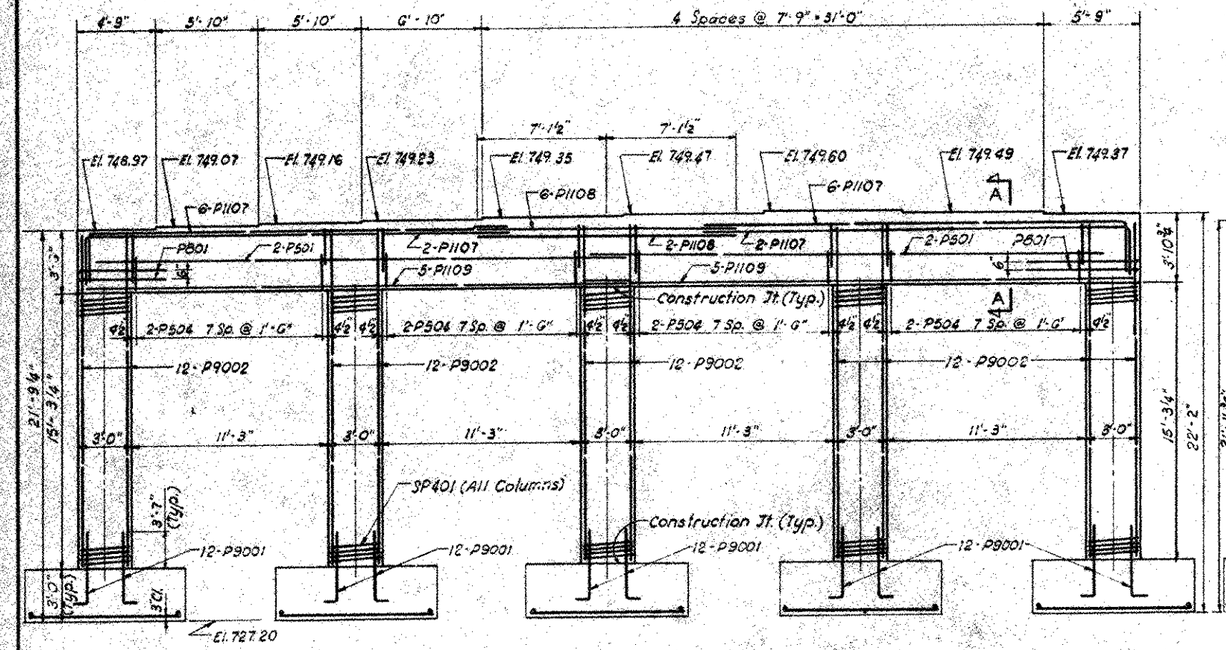
271
333



PLAN - PIER #1



PLAN - PIER #2



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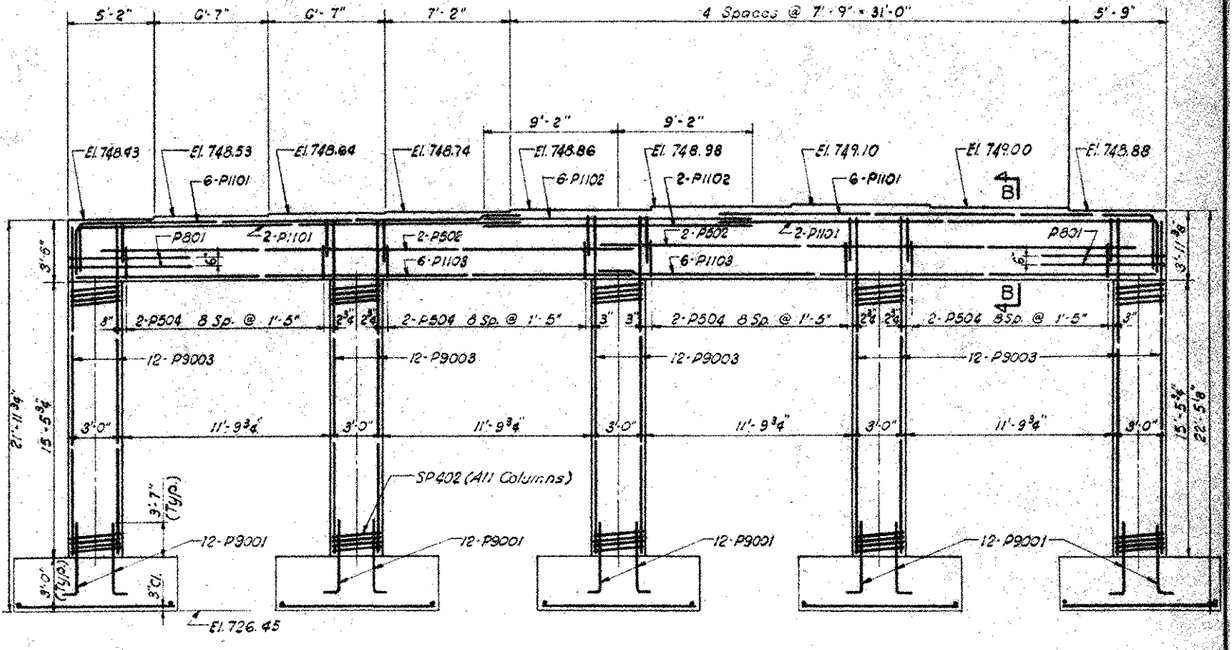

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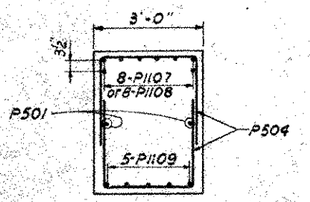
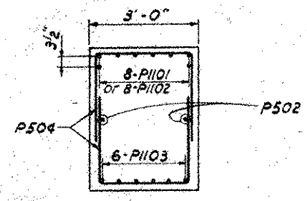


SECTION A-A



SECTION B-B

DE LEUW, CATHER & BRILL
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PIER DETAILS (0819)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I-71)

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 381+89.09

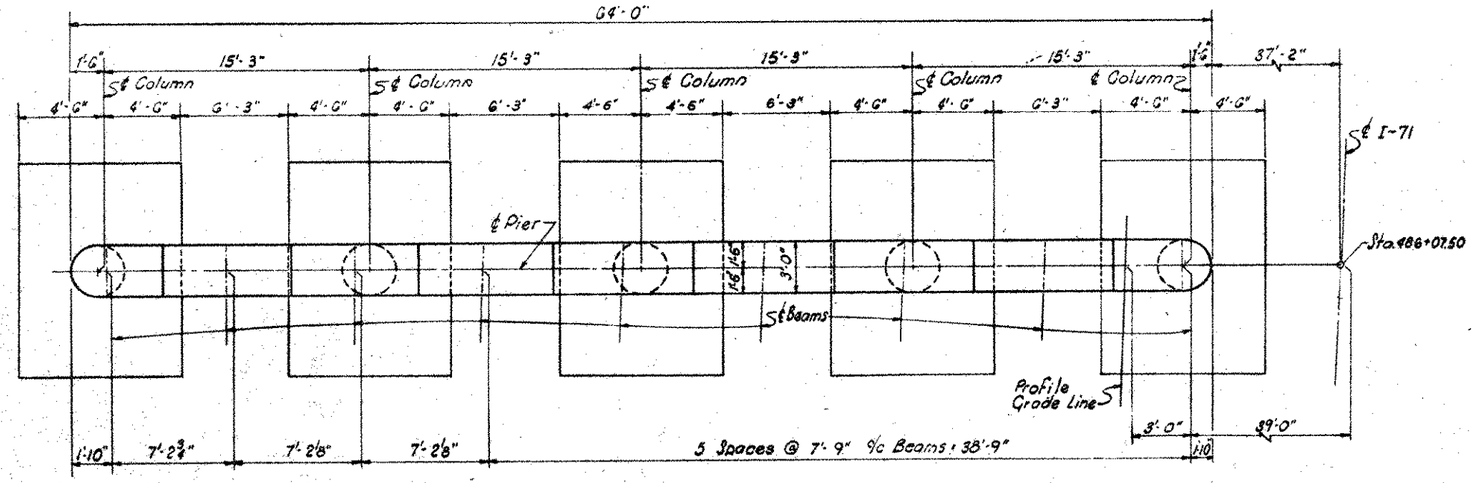
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	F.F.W.	J.H.	C.K.	R.D.	8-61	

11

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

272
339

FRANKLIN COUNTY FRA-200-8.04



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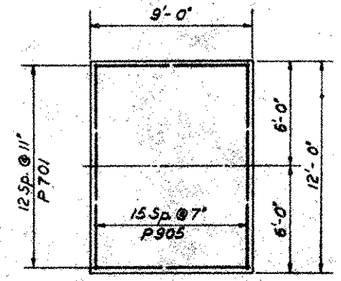
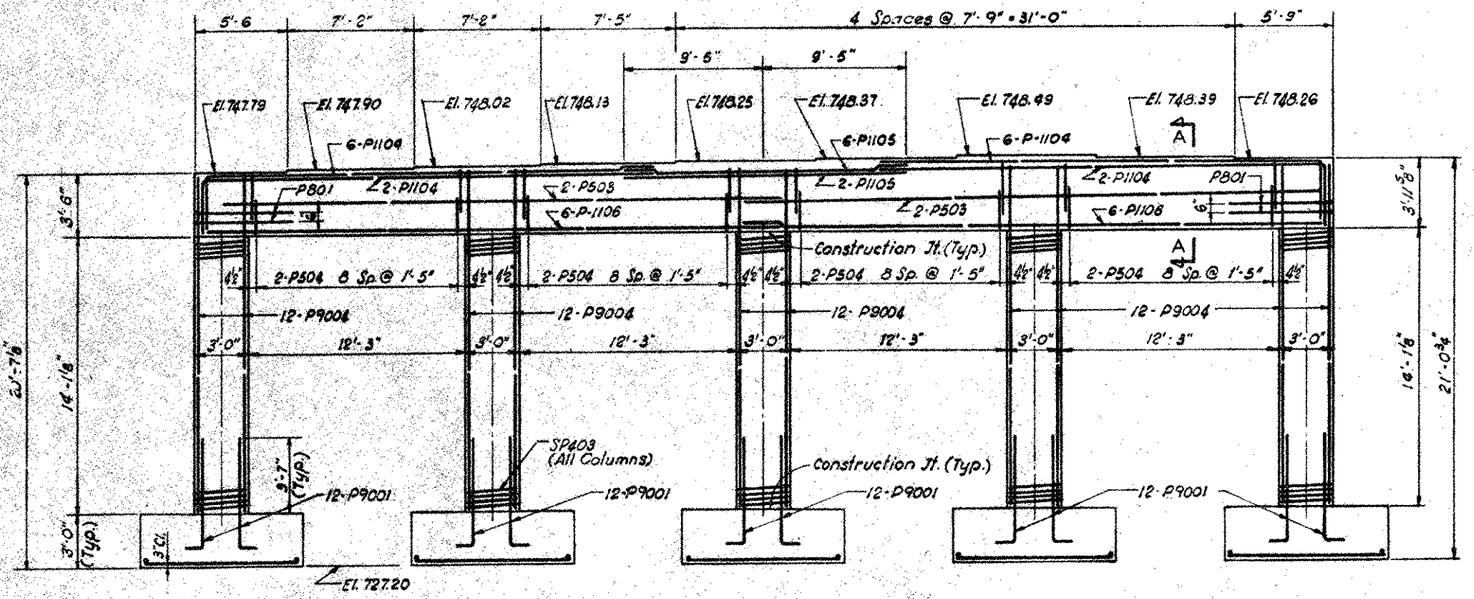
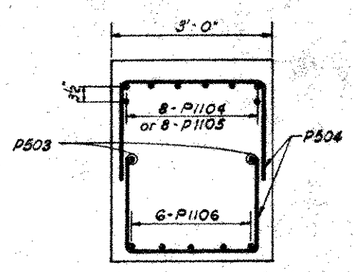


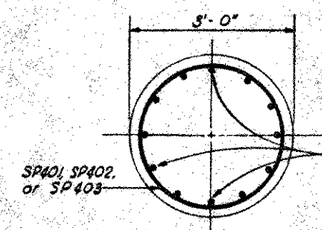
PLAN OF FOOTINGS



ELEVATION - PIER # 3



SECTION A-A



TYPICAL COLUMN SECTION

PIER NOTES:

Special care shall be taken in placing reinforcing in the Pier cap of Pier 2 so that it will not interfere with the drilling of Bearing Plate Anchor Bolts.

Reinforcing steel shall clear the face of the concrete by 2", unless otherwise noted.

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PIER DETAILS (0819)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)

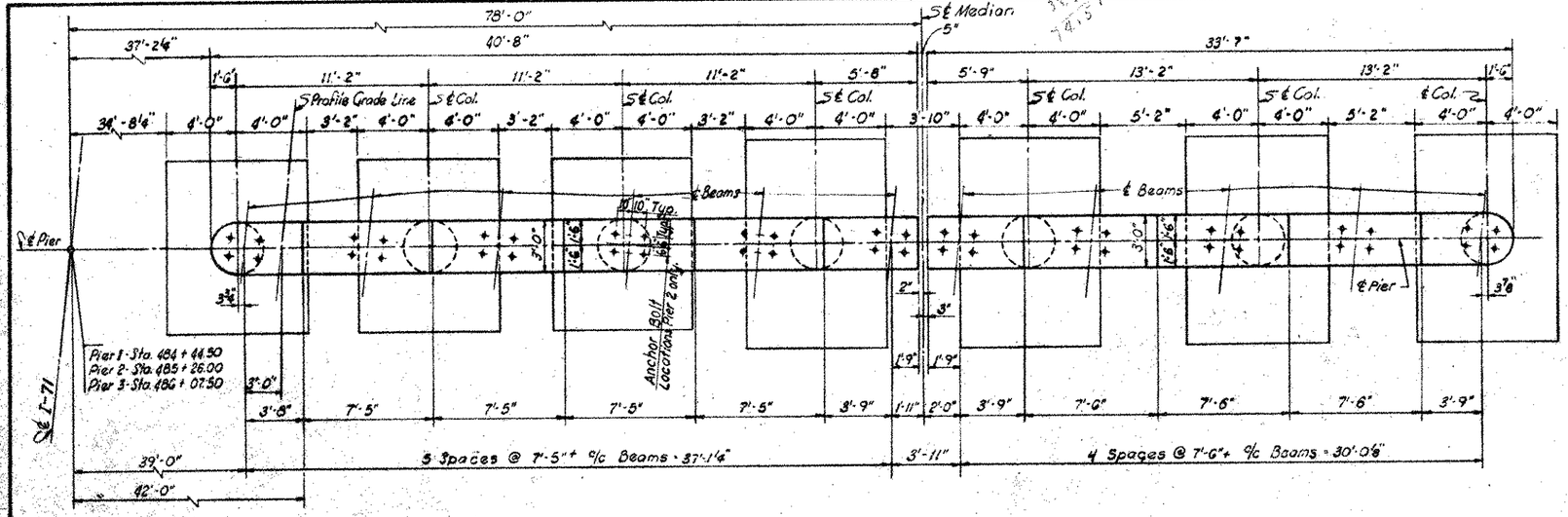
FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 381 + 89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	F.F.W.	J.H.	C.K.	R.D.	8-61	

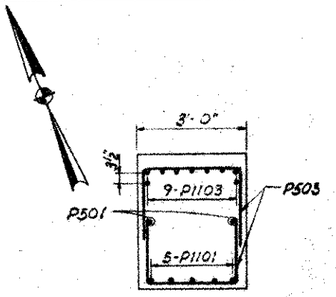
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

273
333

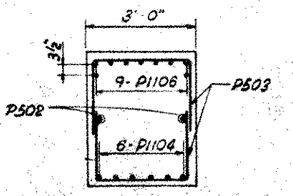
FRANKLIN COUNTY FRA-200-8.04



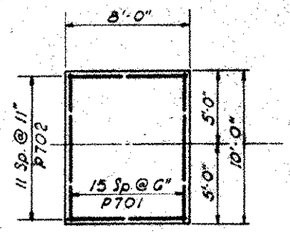
PLAN



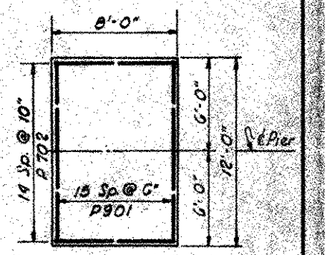
SECTION A-A



SECTION B-B

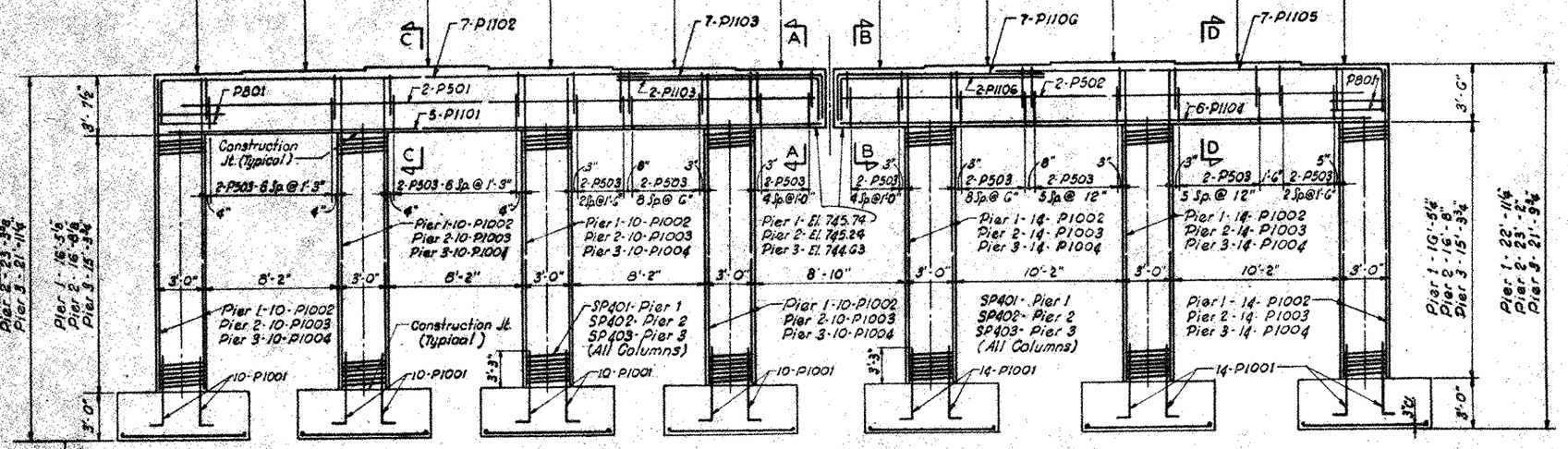


TYPE "A" FTG



TYPE "B" FTG.

Elevations Pier 1 →	749.36	749.48	749.59	749.48	749.36	749.24	749.24	749.36	749.47	749.36	749.24
Elevations Pier 2 →	748.86	748.97	749.09	748.98	748.86	748.74	748.74	748.87	748.97	748.85	748.73
Elevations Pier 3 →	748.25	748.36	748.48	748.36	748.25	748.13	748.13	748.24	748.36	748.24	748.12

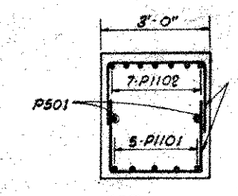


TYPE "A" FTG. TYPE "A" FTG. TYPE "A" FTG. TYPE "B" FTG. TYPE "B" FTG. TYPE "B" FTG. TYPE "B" FTG.

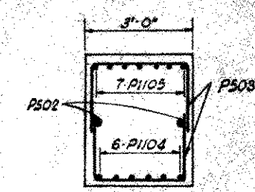
El. 726.31 - Pier 1
El. 725.56 - Pier 2
El. 726.31 - Pier 3

ELEVATION

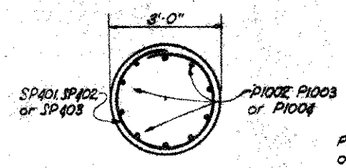
PLAN OF FOOTINGS



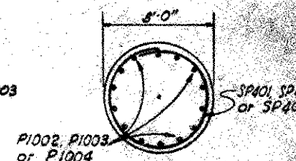
SECTION C-C



SECTION D-D



SECTION THRU COLUMNS
(Column With 10 Bars)



SECTION THRU COLUMNS
(Column With 14 Bars)

NOTE:

Special care shall be taken in placing reinforcing in the pier cap of Pier 2 so that it will not interfere with the drilling of bearing plate anchor bolts.

Reinforcing steel shall clear the face of concrete by 2" unless otherwise noted.

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PIER DETAILS (0822)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 381 + 89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	F.F.W.	J.H.	H.B.	R.O.	8-61	

13

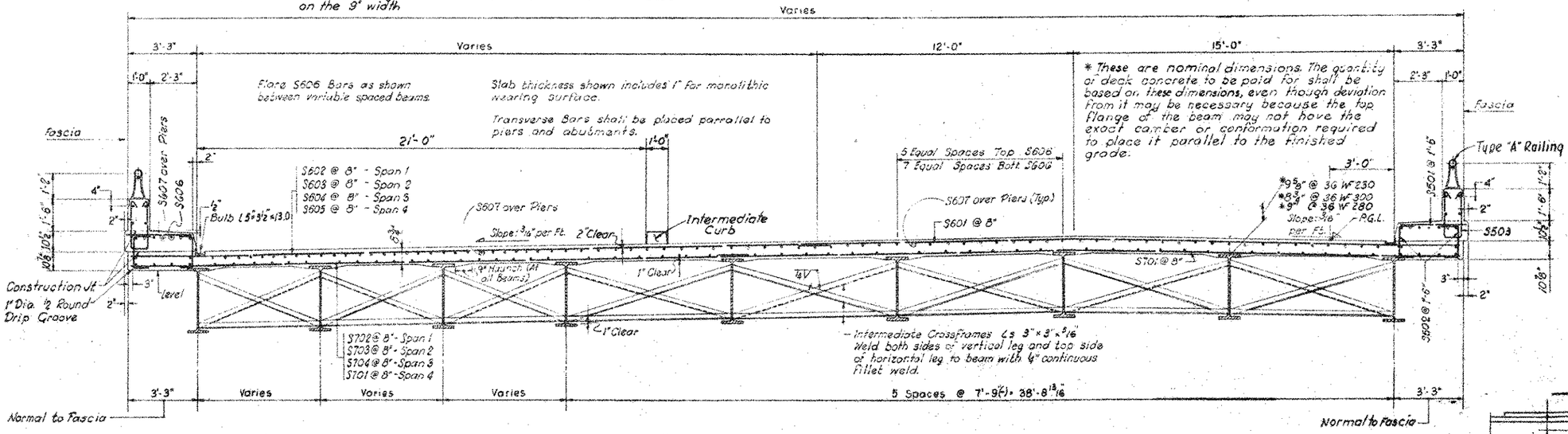
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

274
333

FRANKLIN COUNTY FRA-200-8.04

DECK SLAB HAUNCH.

The haunch in the deck slab adjacent to the top of the steel beams, which is shown as 9" wide, may vary from this dimension with a minimum of 6" and maximum of 12". Maximum slope of haunch shall be one vertical to four horizontal. Payment for deck slab concrete shall be based on the 9" width.



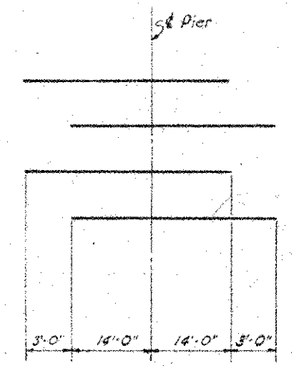
* These are nominal dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

Floor S606 Bars as shown between variable spaced beams.

Slab thickness shown includes 1" for monolithic wearing surface.

Transverse Bars shall be placed parallel to piers and abutments.

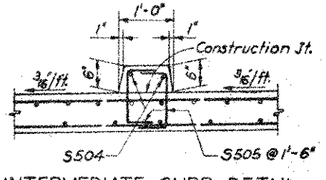
* S503 @ 36 WF 230
* S503 @ 36 WF 300
* S503 @ 36 WF 280



STAGGER OF S607 BARS OVER PIERS

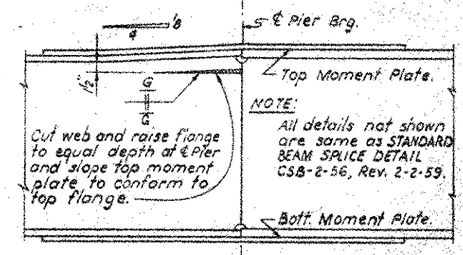
BEAM SPLICE DATA							
LOCATION	BEAM SIZE	BEAM SIZE	TOP MOMENT ℄	BOTTOM MOMENT ℄	DIM. "C"	DIM. "D"	BEAM SPLICE DETAIL
Pier 1	36 WF 230	36 WF 230	15"x 5/8 x 26'-0"	18"x 11/16"x 26'-0"	13'-11"	12'-1"	Std. Dwg. CSB-1-56 Rev. 1-2-59
Pier 1	36 WF 280	36 WF 230	15"x 1" x 29'-0"	18"x 1" x 29'-0"	13'-11"	15'-1"	As Shown
Pier 2	36 WF 280	36 WF 230	15"x 5/8" x 26'-0"	18"x 11/16"x 26'-0"	13'-0"	15'-0"	Std. Dwg. CSB-1-56 Rev. 1-2-59
Pier 3	36 WF 230	36 WF 300	15"x 1" x 29'-8"	18"x 1" x 29'-8"	16'-2"	13'-6"	As Shown

TRANSVERSE SECTION



INTERMEDIATE CURB DETAIL

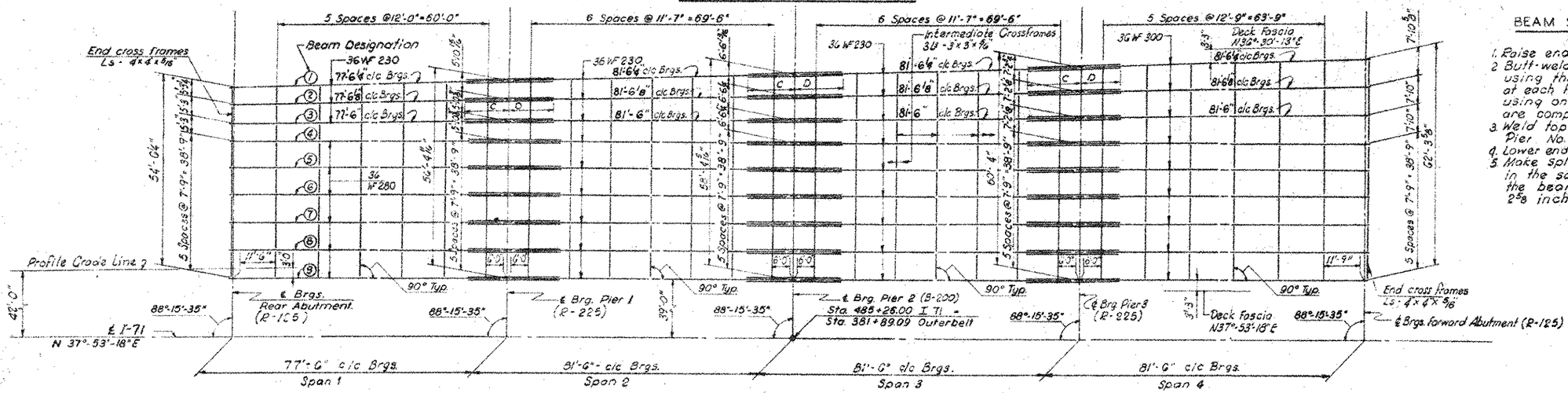
DEFLECTION AND CAMBER					
LOCATION	SPAN 1		SPAN 2	SPAN 3	SPAN 4
	36WF230	36WF280			
Deflection Due to Weight of Steel	1 1/4"	1 1/4"	3/16"	3/16"	5/16"
Deflection Due to Remaining Dead Load	1"	1"	13/16"	13/16"	1 3/16"
Total Deflection	1 1/4"	1 1/4"	1"	1"	1 1/2"
Required Camber	1 1/4"	1 1/4"	1"	1"	1 1/2"



BEAM SPLICE DETAIL

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at pier No. 2, 3 1/16 inches.
2. Butt-weld beam flanges and web at pier No. 1 using the following sequence: make two passes at each flange, then two on the web, repeat using one pass on each location until welds are completed.
3. Weld top and bottom moment plates at Pier No. 1.
4. Lower end of beam at pier No. 2.
5. Make splice at pier No. 2 and pier No. 3 in the same manner, raising the end of the beams 2 3/8 inches at pier No. 3, and 2 5/8 inches at the forward abutment.



STEEL FRAMING PLAN

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SUPERSTRUCTURE DETAILS (0819)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
Y.C.K.	Y.C.K.	I.P.	H.B.	R.D.	8-61	3-19-63

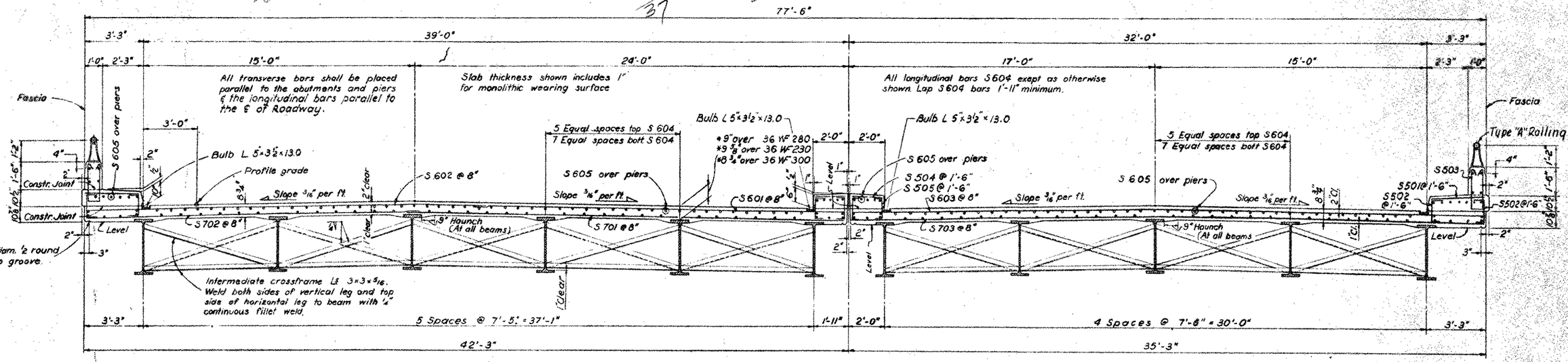
14

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

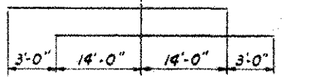
275/333

*These are nominal dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.



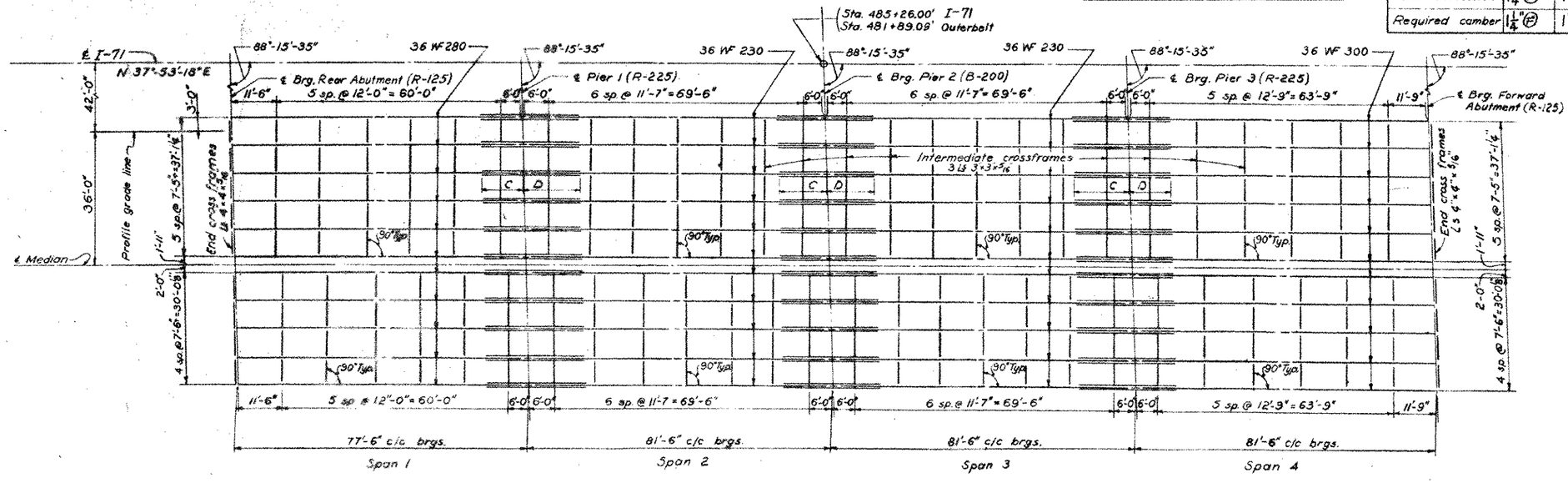
TRANVERSE SECTION

BEAM SPLICE DATA							
Location	Beam Size	Beam Size	Top Moment	Bottom Moment	Dim. "C"	Dim. "D"	Beam splice detail
Pier 1	36 WF 280	36 WF 230	15"x 7/8"x29'-0"	18"x 7/8"x29'-0"	13'-11"	15'-1"	As Shown
Pier 2	36 WF 230	36 WF 230	15"x 5/8"x26'-0"	18"x 11/16"x26'-0"	13'-0"	13'-0"	Std. Dwg. CSB-2.56 Rev. 2-2-59
Pier 3	36 WF 230	36 WF 300	15"x 1"x29'-8"	18"x 1"x29'-8"	16'-2"	13'-6"	As Shown



STAGGER OF S 605 OVER PIERS

DEFLECTION AND CAMBER				
Location	Span 1	Span 2	Span 3	Span 4
Deflection due to weight of steel	1" (Pier 1) 1/4 (Pier 2)	3/16 (Pier 2)	3/16 (Pier 2)	5/16 (Pier 3)
Deflection due to remaining dead ld	1" (Pier 1)	13/16 (Pier 2)	13/16 (Pier 2)	1 3/16 (Pier 3)
Total deflection	1 1/4" (Pier 2)	1" (Pier 2)	1" (Pier 2)	1 1/2" (Pier 3)
Required camber	1 1/4" (Pier 2)	1" (Pier 2)	1" (Pier 2)	1 1/2" (Pier 3)



STEEL FRAMING PLAN

BEAM SPLICE WELDING PROCEDURE

1) Raise end of beam at pier No.2 3 1/16 inches
2) Butt-weld beam flanges and web at pier No.1 using the following sequance: Make two passes at each flange, then two on the web, repeat using one pass at each location until welds are completed.
3) Weld top and bottom moment plates at pier No.1.
4) Lower end of beam at pier No. 2.
5) Make splice at pier No. 2 and pier No. 3 in the same manner raising the end of the beams 2 3/8 at pier No. 3 and 2 5/8 inches at the Forward Abutment.

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SUPERSTRUCTURE DETAILS (0822)
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 381+89.09

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
Y.C.K.	Y.C.K.	I.P.	H.B.	R.D.	8-61	5-29-62

DIETZGEN PAPER, INC., BROOKLYN 17, N.Y. ARTOTYPE 7004

15

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

276
339

FRANKLIN COUNTY FRA-200-8.04

REINFORCING STEEL LIST

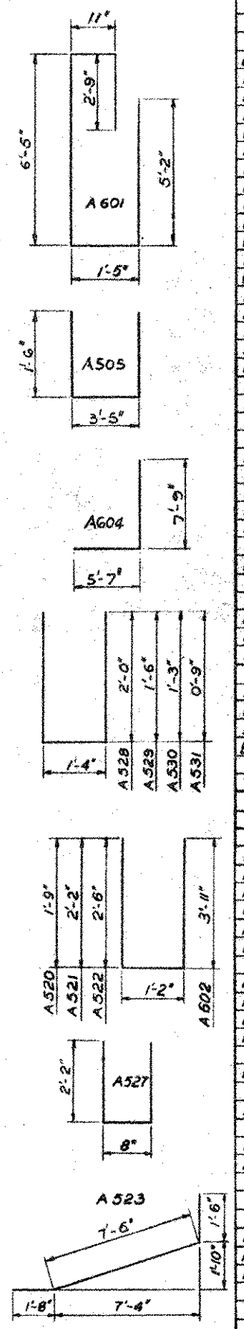
ABUTMENTS — BRIDGE No. FRA.-200-0819

MARK	NO.	LENGTH	WEIGHT	SHP
A 501	8	36'-0"	301	S
A 502	85	5'-9"	510	S
A 503	22	30'-2"	692	S
A 504	22	37'-8"	864	S
A 505	180	6'-5"	1,205	B
A 506	8	32'-1"	268	S
A 507	24	31'-1"	778	S
A 508	8	12'-3"	102	S
A 509	8	5'-6"	46	S
A 510	16	4'-0"	67	S
A 511	32	11'-6"	384	S
A 512	16	9'-6"	159	S
A 513	24	9'-2"	230	S
A 514	24	5'-6"	138	S
A 515	4	14'-0"	59	S
A 516	8	16-6"	138	S
A 517	4	10'-6"	44	S
A 518	8	13'-0"	109	S
A 519	16	3'-11"	66	S
A 520	16	4'-8"	78	B
A 521	16	5'-6"	92	B
A 522	8	6'-2"	51	B
A 523	8	10'-8"	89	B
A 524	40	2'-5"	101	S
A 525	16	14'-8"	245	S
A 526	16	14'-4"	*	S
A 527	40	5'-0"	209	B
A 528	56	5'-4"	312	B
A 529	8	4'-4"	37	B
A 530	8	3'-10"	32	B
A 531	8	2'-10"	24	B
A 532	4	10'-0"	42	S
A 533	20	9'-3"	193	S
A 534	16	6'-0"	100	S
A 535	20	30'-0"	626	S
A 601	126	16'-8"	3,155	B
A 602	24	9'-0"	324	B
A 603	24	11'-9"	424	S
A 604	85	13'-4"	1702	B

PIERS — BRIDGE No. FRA.-200-0819

MARK	NO.	LENGTH	WEIGHT	SHP
P 1101	16	28'-4"	2,408	B
P 1102	8	18'-4"	779	S
P 1103	12	32'-9"	2,088	S
P 1104	16	29'-0"	2,465	B
P 1105	8	18'-10"	800	S
P 1106	12	33'-7"	2,141	S
P 1107	16	27'-6"	2,338	B
P 1108	8	14'-3"	606	S
P 1109	10	31'-7"	1,678	S
P 901	180	7'-2"	4,388	B
P 902	60	18'-5"	3,757	S
P 903	60	18'-9"	3,825	S
P 904	60	17'-4"	3,535	S
P 905	240	11'-8"	9,522	S
P 801	12	10'-0"	320	B
P 701	195	8'-8"	3,455	S
P 501	4	29'-4"	122	S
P 502	4	30'-5"	127	S
P 503	4	31'-7"	132	S
P 504	208	7'-6"	1,677	B

BENDING DIAGRAMS



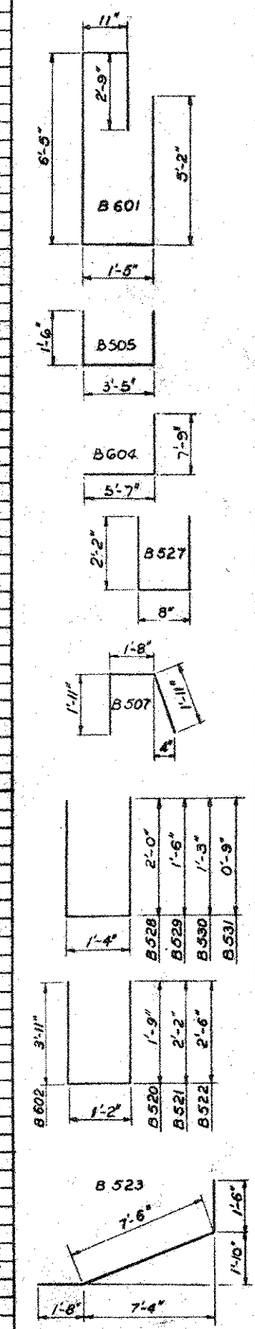
ABUTMENTS — BRIDGE No. FRA.-200-0822

MARK	NO.	LENGTH	WEIGHT	SHP
B 501	16	40'-3"	672	S
B 502	102	5'-9"	612	S
B 503	88	21'-9"	1,997	S
B 504	44	34'-9"	1,595	S
B 505	220	6'-5"	1,473	B
B 506	12	1'-5"	18	S
B 507	8	5'-6"	46	B
B 508	8	12'-3"	102	S
B 509	8	5'-6"	46	S
B 510	16	4'-0"	67	S
B 511	32	11'-3"	375	S
B 512	8	9'-6"	79	S
B 513	24	9'-2"	230	S
B 514	24	5'-6"	138	S
B 515	4	14'-0"	59	S
B 516	8	16-6"	138	S
B 517	4	10'-6"	44	S
B 518	8	13'-0"	109	S
B 519	16	3'-11"	66	S
B 520	16	4'-8"	78	B
B 521	16	5'-6"	92	B
B 522	8	6'-2"	51	B
B 523	8	10'-8"	89	B
B 524	40	2'-5"	101	S
B 525	16	14'-8"	245	S
B 526	16	14'-4"	*	S
B 527	40	5'-0"	209	B
B 528	56	5'-4"	312	B
B 529	8	4'-4"	37	B
B 530	8	3'-10"	32	B
B 531	8	2'-10"	24	B
B 532	4	10'-0"	42	S
B 533	20	9'-3"	193	S
B 534	16	6'-0"	100	S
B 601	154	16'-3"	3,860	B
B 602	24	9'-0"	324	B
B 603	24	11'-6"	415	S
B 604	102	13'-4"	2043	B

PIERS — BRIDGE No. FRA.-200-0822

MARK	NO.	LENGTH	WEIGHT	SHP
P 1101	15	39'-0"	3,108	S
P 1102	21	34'-1"	3,802	B
P 1103	27	15'-11"	2,284	B
P 1104	18	31'-11"	3,053	S
P 1105	21	25'-11"	2,892	B
P 1106	27	17'-0"	2,439	B
P 1001	246	6'-6"	6,880	B
P 1002	82	19'-8"	6,940	S
P 1003	82	19'-11"	7,029	S
P 1004	82	18'-7"	6,556	S
P 901	192	11'-6"	7,507	S
P 801	12	10'-0"	320	B
P 701	144	9'-6"	2,456	S
P 702	288	7'-6"	9,236	S
P 501	6	39'-0"	244	S
P 502	6	31'-11"	200	S
P 503	360	7'-6"	2,816	B

BENDING DIAGRAMS



SUPERSTRUCTURE — BRIDGE No. FRA.-200-0819

S 701	611	35'-1"	43,808	S
S 702	118	29'-6"	7,115	S
S 703	123	31'-5"	7,899	S
S 704	122	33'-5"	8,334	S
S 601	487	31'-1"	22,734	S
S 602	118	33'-6"	5,937	S
S 603	123	35'-5"	6,544	S
S 604	122	37'-5"	6857	S
S 605	124	39'-1"	7,279	S
S 606	963	37'-7"	54,357	S
S 607	138	31'-0"	6,426	S
S 501	434	2'-11"	1,322	S
S 502	868	2'-4"	2,114	B
S 503	446	5'-6"	2,559	B
S 504	8	35'-6"	296	S
S 505	184	2'-0"	384	B

RAILING — BRIDGE No. FRA.-200-0819

R 501	144	15'-9"	—	S
R 502	8	21'-3"	—	S
R 503	8	13'-9"	—	S

SUPERSTRUCTURE — BRIDGE No. FRA.-200-0822

S 701	487	24'-11"	24,806	S
S 702	487	18'-10"	18,744	S
S 703	487	34'-10"	34,671	S
S 601	487	21'-2"	15,485	S
S 602	487	22'-7"	16,517	S
S 603	487	34'-10"	25,477	S
S 604	1197	37'-7"	67,573	S
S 605	165	31'-0"	7,683	S
S 501	434	2'-11"	1,322	S
S 502	868	2'-4"	2,114	B
S 503	446	4'-6"	2,093	B
S 504	434	1'-6"	679	S
S 505	868	2'-0"	1,811	B

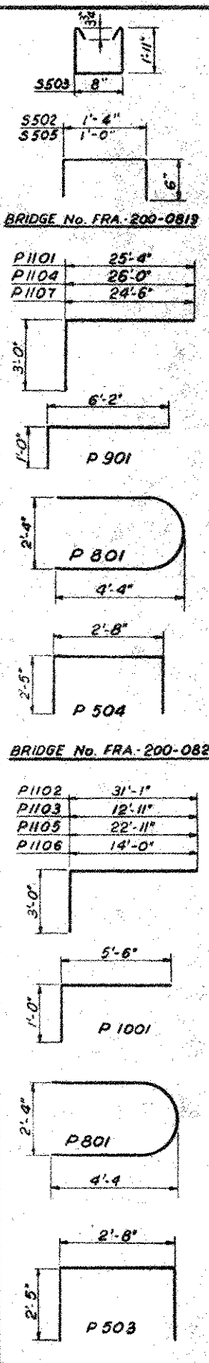
RAILING — BRIDGE No. FRA.-200-0822

R 501	144	15'-9"	—	S
R 502	8	21'-3"	—	S
R 503	8	13'-9"	—	S

REPLACEMENT BARS

RE 1101	3	7'-7"	—	S
RE 1001	3	7'-3"	—	S
RE 901	2	6'-10	—	S
RE 801	1	6'-6"	—	S
RE 701	3	6'-3"	—	S
RE 601	3	5'-11"	—	S
RE 501	3	5'-7	—	S

BENDING DIAGRAMS



SPIRAL REINFORCING BARS

MARK	NO.	CORE DIAM. & SPIRAL	LENGTH	PITCH	# OF TURNS	WEIGHT	
BRIDGE No. FRA.-200-0819							
SP 401	5	32"	15'-3" (46-0)	3"	64	~~1,792~~	1999
SP 402	5	32"	15'-6" (46-6)	3"	65	~~1,820~~	2030
SP 403	5	32"	14'-7" (44-3)	3"	59	~~1,652~~	1842
BRIDGE No. FRA.-200-0822							
SP 401	7	32"	16'-5" (49-0)	3"	69	~~2,070~~	3018
SP 402	7	32"	16'-8" (49-6)	3"	70	~~2,100~~	3062
SP 403	7	32	15'-3" (46-0)	3"	64	~~1,920~~	2798

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. For example, P901 is a No. 9 size bar and P1001 is a No. 10 size.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing laboratory, test samples as provided in Sec. 5-4.02 need not be furnished and replacement bars will not be required.

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 deformations but shall in other respects conform to Item 5-4. 1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, 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 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

* *PARAPET BARS: Horizontal Parapet Bars R501, R502, R503; A526 and B526 are included with item S-14 for payment together with concrete in parapet.*

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NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

REINFORCING STEEL LIST
BRIDGE NO. FRA-200-0819 & 0822
UNDER SOUTH FREEWAY (I 71)
FRANKLIN COUNTY — COLUMBUS OUTERBELT
STA. 381+89.09

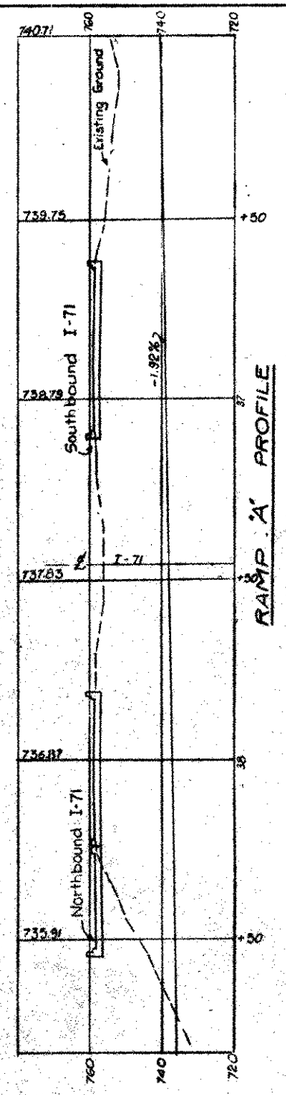
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.Y.L.	M.P.F.	I.P.	H.B.	R.D.	8-'61	11-15-61

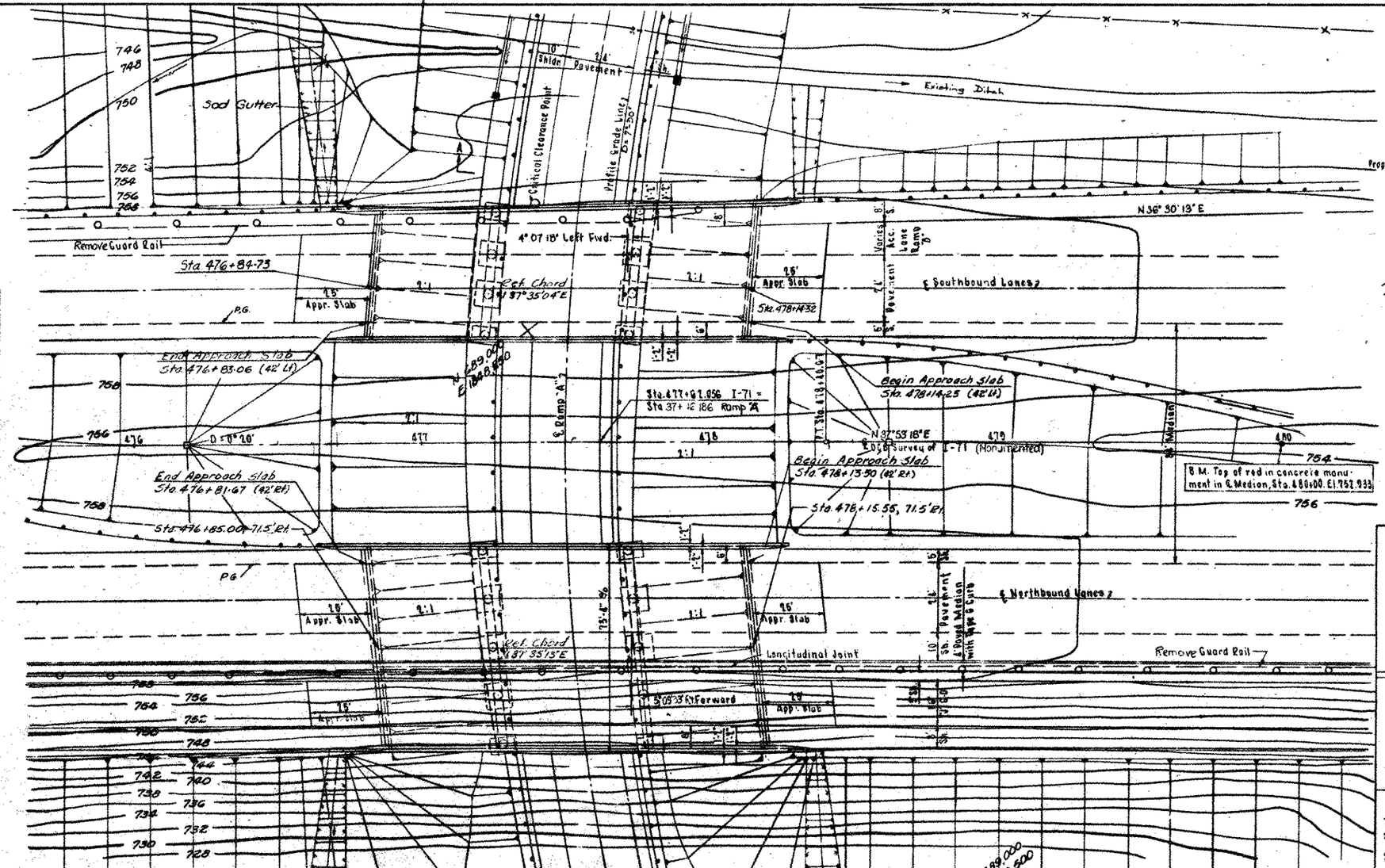
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

277
333

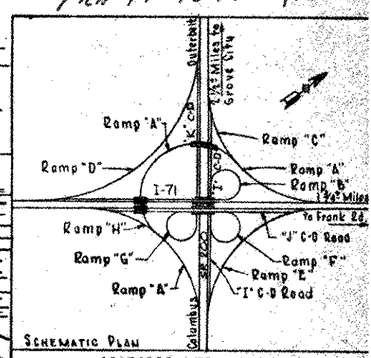
FRANKLIN COUNTY FRA-200-8.04

FRA-71-1048 & 1E



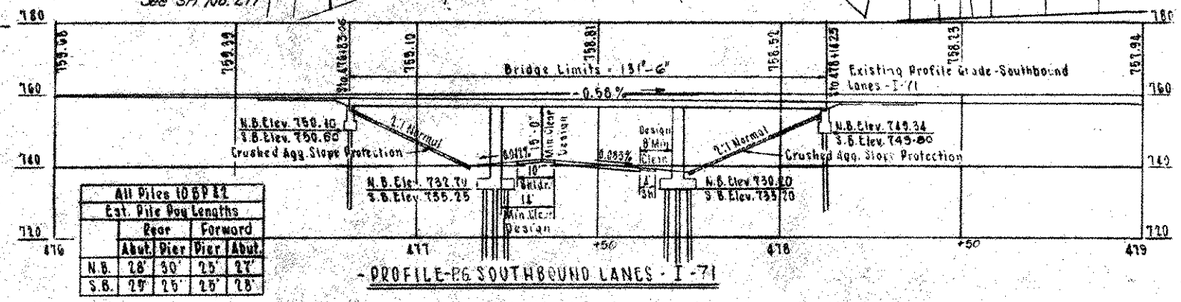


Approach Section - I-71 Looking South



Ramp "A" Curve Data
Δ = 140°-29'-01"
D = 7°30'
R = 763.94'
L = 1873.12'

Exist I-71 Curve Data
Δ = 10°-32'-50"
D = 00°20'00"
R = 17,188.73'
L = 3162.60'
T = 1585.69'
E = 72.90'



All Piles 10 BP 42				
Est. Pile Pay Lengths				
	Rear		Forward	
	Abut.	Pier	Pier	Abut.
N.B.	28'	30'	25'	27'
S.B.	29'	25'	26'	28'

- PROFILE-PG SOUTHBOUND LANES - I-71

- NOTES -

For Temporary Run-Around See Supplemental Sheets

Bench Mark: Railroad spike in west side of 36" Locust tree 1225' Right of SR 200 ℄ Sta. 374+30' Elev. 750.01

Piles: shall be driven to a minimum bearing capacity of 35 tons per pile for the abutments and piers.

Foundation Soundings: Foundation Design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, Ohio, or in the Division office but the State of Ohio does not guarantee the accuracy thereof.

- PROPOSED STRUCTURE -

TYPE: 3 Span continuous reinforced concrete slab and substructure.

SPANS: 40'-0"; 50'-0"; 40'-0" ℄ Bearings

ROADWAY: Northbound 71'-0" c/f of Parapets with 6'-0" Median. Southbound varies.

LOAD FREQUENCY: CF-2000 (57) Adequate for AASHO Alternate Loading.

SKEW: N.B. I-71 5° 03' 33" Right Forward
S.B. I-71 4° 07' 18" Left Forward

WEARING SURFACE: 1" Monolithic Concrete

APPROACH SLABS: AS 1-54 25' Long

ALIGNMENT: 0°10' Curve Rt. Sta. Fwd. 7°30' Curve Lt. Ramp "A"

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- SITE PLAN -

Bridge Nº FRA-200-Ramp "A" Under I-71 Northbound and Southbound

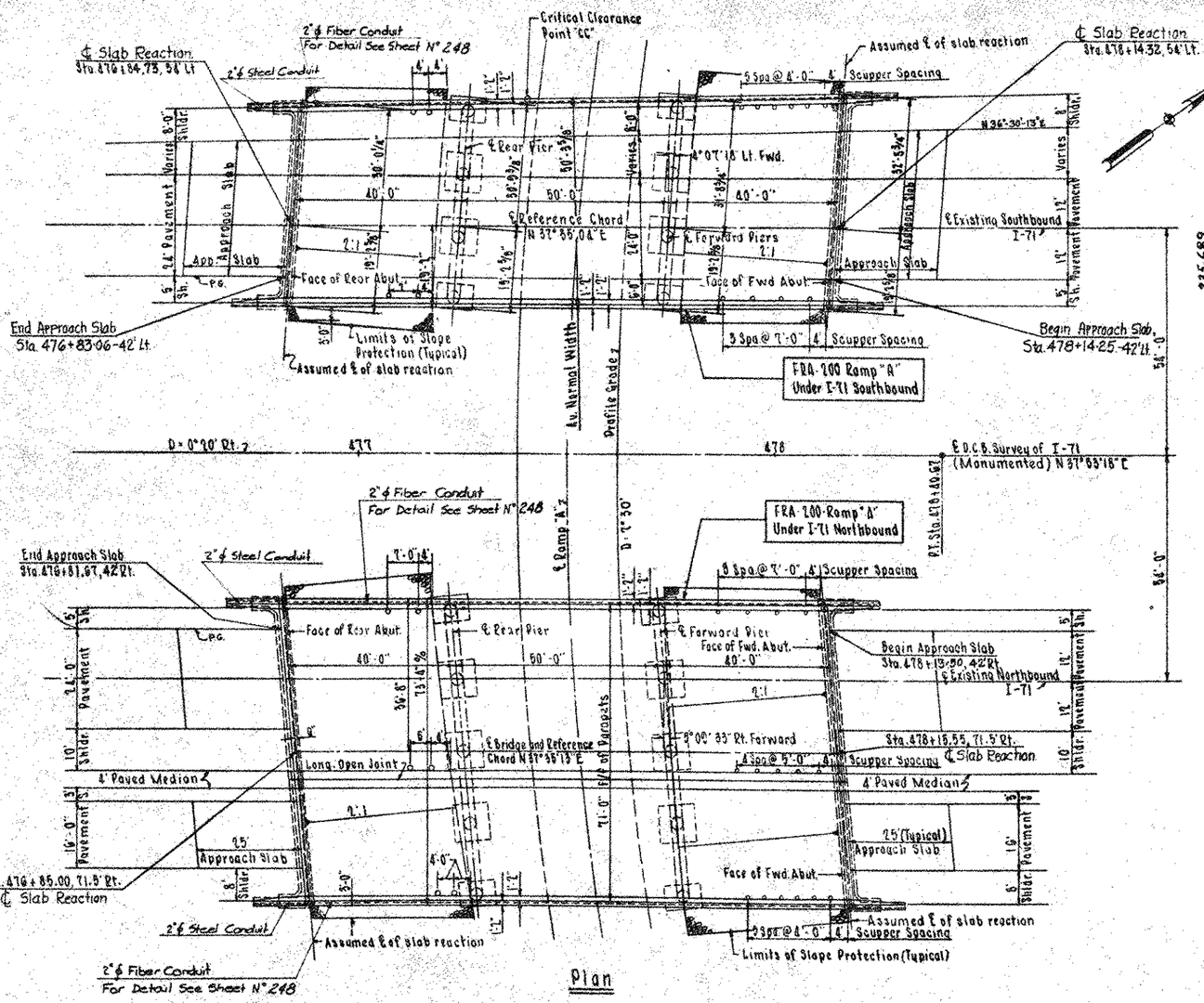
FRANKLIN COUNTY — COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISE
R.H.	N.E.C.	NEC	C.E. JKS	J.E.P.	12-18	

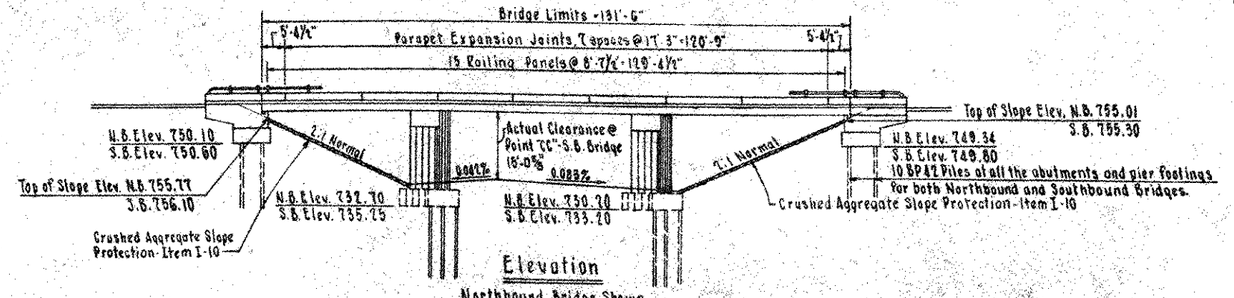
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

278
333



Plan



Elevation

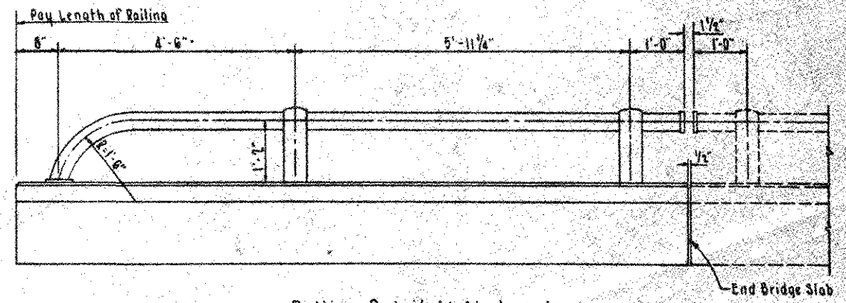
Northbound Bridge Shown

Estimated Quantities (Two Structures)

Item	Total	Unit	Description	Northbound Super.	Northbound Abut.	Northbound Piers	Southbound Super.	Southbound Abut.	Southbound Piers	Gen.
E-2	650	Cu. Yd.	Unclassified Excavation		206	180		157	140	
S-1	1140	Cu. Yd.	Class "C" Concrete, Superstructure	672			468			
S-1	178	Cu. Yd.	Class "C" Concrete, Pier Caps and Columns			106			72	
S-1	158	Cu. Yd.	Class "E" Concrete, Pier Footings			78			80	
S-1	207	Cu. Yd.	Class "E" Concrete, Abutments		118			84		
S-8	(41,750)	Lbs.	Reinforcing Steel	54,567	11,206	(5,750)	188,687	8,332	(4,220)	
S-9	60	Sq. Ft.	½" Gray Sponge Rubber Preformed Expansion Joint Filler		30			30		
S-14	674	Lin. Ft.	Railing (Aluminum rail and supports and Concrete Parapet)	263	49		263	49		
S-16	Lump	Sum	First Test Pile							Lump
S-18	1035	Lin. Ft.	Steel Piles 10 BP 42		270	1595		270	1170	
S-19	15	Each	Scuppers, 8" cast iron or wrought iron pipe	15			10			
S-29	63	Cu. Yd.	Porous Backfill		40			23		
I-10	1050	Sq. Yd.	Crushed Aggregate Slope Protection							1050
Special	1149	Each	Water Reducing, Set Retarding Admixture *	672			468			
S-3	9	Lin. Ft.	Premolded Sealing Strip, waterproofing		9					
S-25			Lighting Quantities (See Note)							

(* See Proposal Note)

Note: - Lighting Quantities for this bridge shall be found listed item by item on the General Lighting Summary Sheet No. 247 and shall be bid by items as shown thereon and considered part of the quantities for this bridge.



Railing Detail At Abutments

1000

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

GENERAL PLAN AND ELEVATION
Bridge N° FRA-200 Ramp "A" Under I-71 Northbound and Southbound
FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.K.S.	M.E.C.	N.E.C.	RC	J.E.F.	12/1961	12-18-62

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

279
333

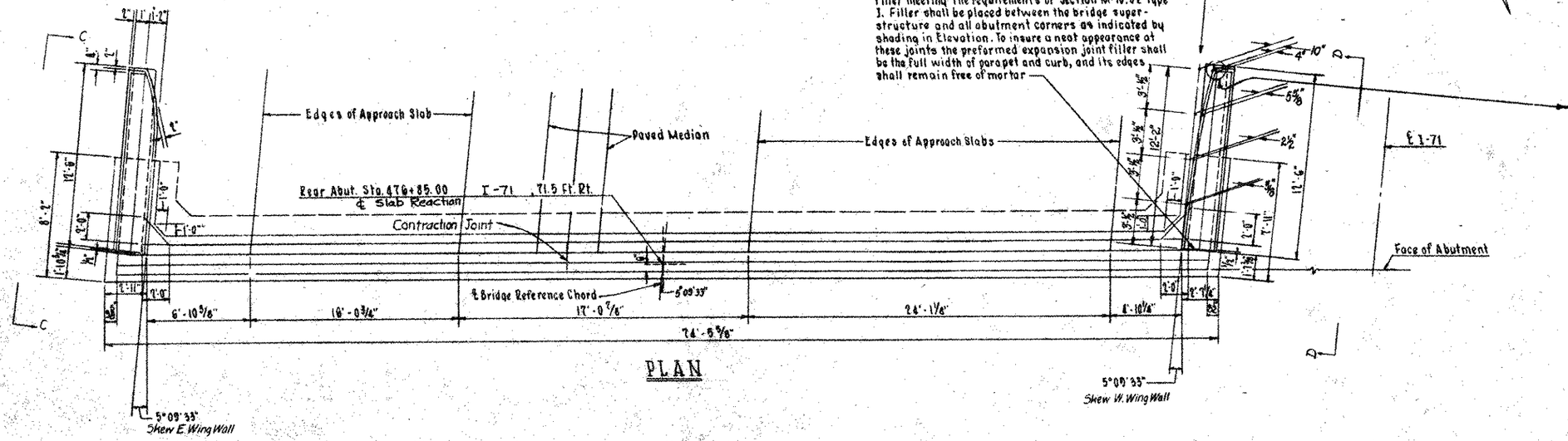
FRANKLIN COUNTY FRA-200-8.04

4

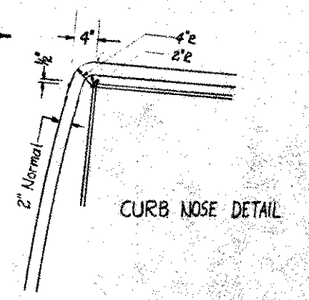
Note:
For location of pavement centerlines and pavement dimensions, see General Plan and Elevation, Sheet N°278 and Site Plan, Sheet N°277

Note: ½" Gray sponge rubber preformed expansion joint filler meeting the requirements of Section M-10.02 Type 1. Filler shall be placed between the bridge superstructure and all abutment corners as indicated by shading in Elevation. To insure a neat appearance at these joints the preformed expansion joint filler shall be the full width of parapet and curb, and its edges shall remain free of mortar

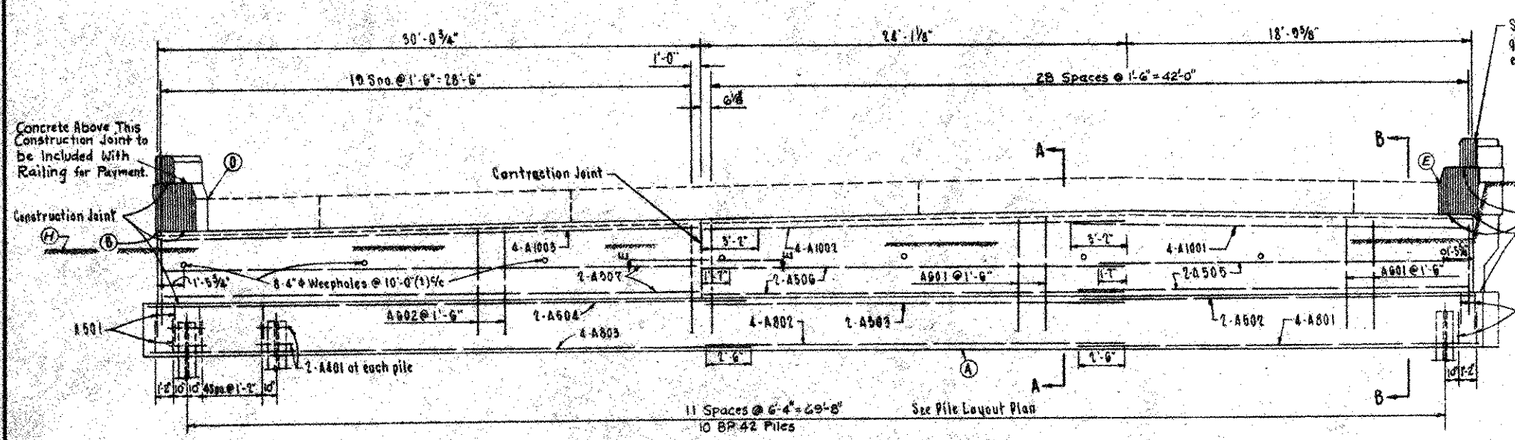
Curb Note:
Curb Dimensions Typical for All Wings Rear And Forward Abutments, Northbound And Southbound Bridges.



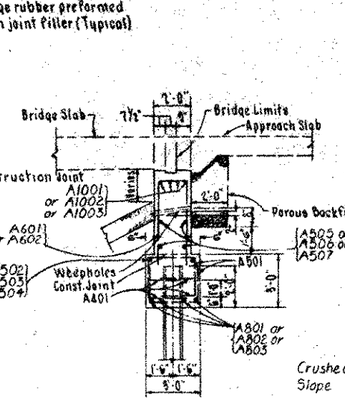
PLAN



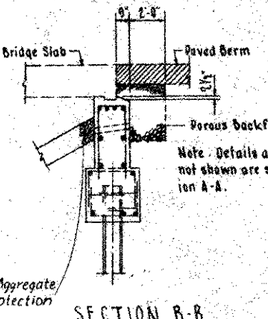
CURB NOSE DETAIL



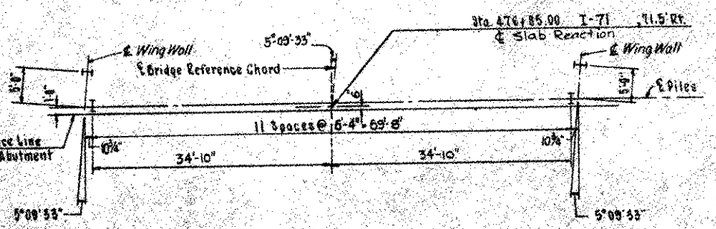
ELEVATION



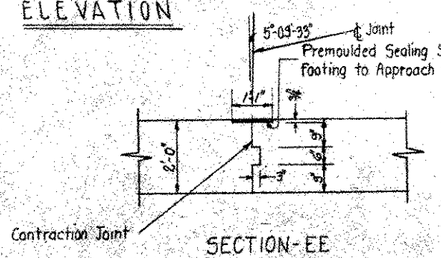
SECTION A-A



SECTION B-B



PILE LAYOUT PLAN



SECTION-EE

ELEVATIONS					
A	B	C	D	E	H
750.10	750.77	757.19	758.60	759.12	755.77

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REAR ABUTMENT DETAILS (N.B.)
BRIDGE NO. FRA-200 RAMP "A" UNDER I-71 NORTHBOUND AND SOUTHBOUND

FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.S.	J.S.	N.E.C.	F.C.	J.E.P.	12/1961	

5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

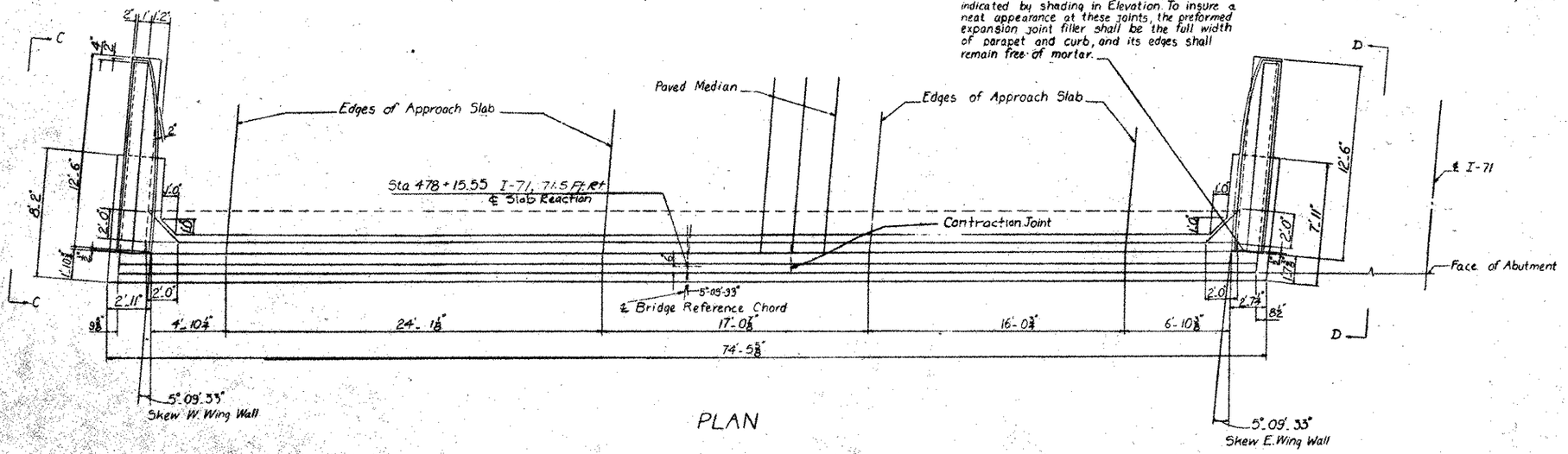
280
333

FRANKLIN COUNTY FRA-200-8.04

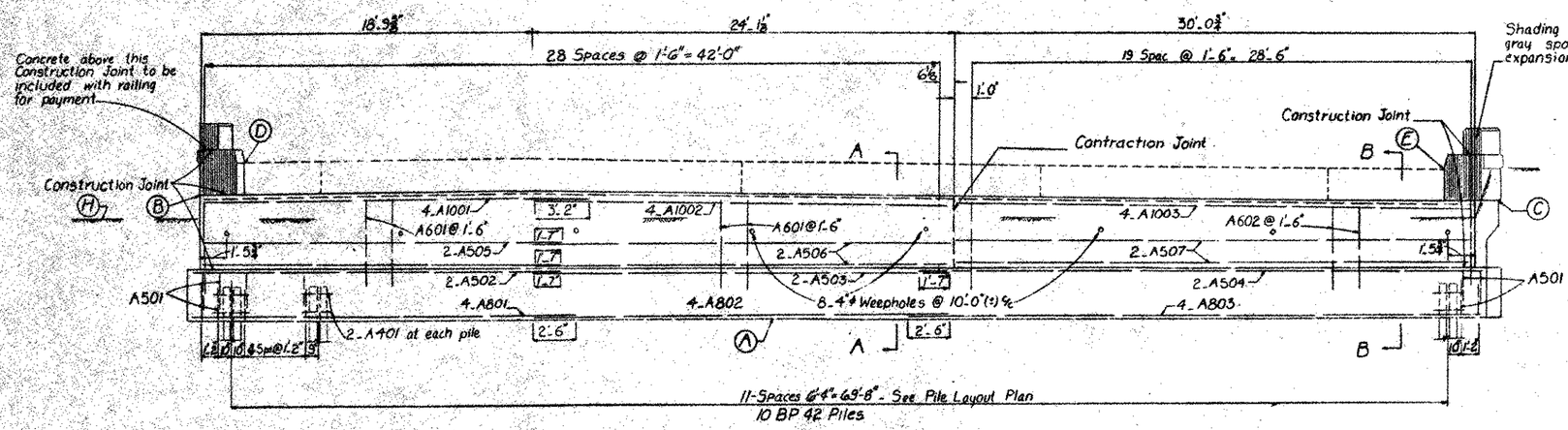
Note:
For location of pavement centerlines and pavement dimensions, see General Plan and Elevation, Sheet No 278 and Site Plan, Sheet No 277

Note: ½" Gray sponge rubber preformed expansion joint filler meeting the requirements of Section M.10.02 Type I. Filler shall be placed between the bridge superstructure and all abutment corners as indicated by shading in Elevation. To insure a neat appearance at these joints, the preformed expansion joint filler shall be the full width of parapet and curb, and its edges shall remain free of mortar.

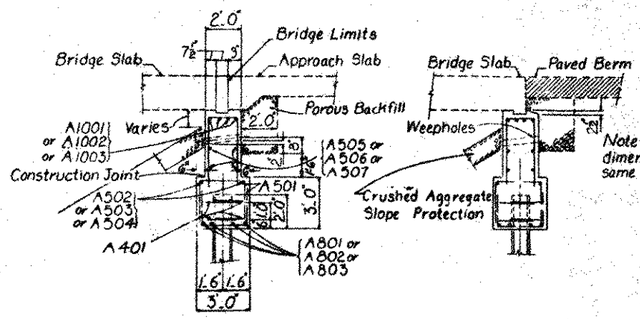
Curb Note:
For Wingwall Curb Dimensions And Detail See Sheet No 279



PLAN

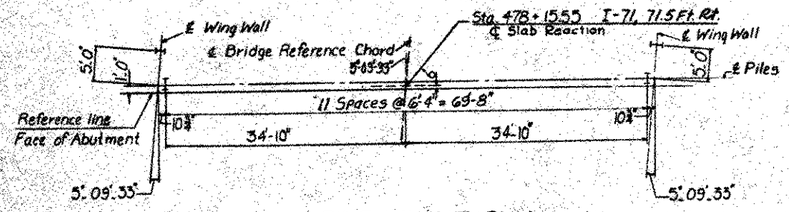


ELEVATION



SECTION A-A

SECTION B-B



PILE LAYOUT PLAN

ELEVATIONS					
A	B	C	D	E	H
749.34	756.54	756.01	758.37	757.85	755.01

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FORWARD ABUTMENT DETAILS(NB)
BRIDGE NO. FRA-200 RAMP "A"
UNDER I-71 NORTHBOUND AND SOUTHBOUND
FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.K.S.	R.C.	R.C.	J.K.S	J.E.F.	12/1964	

1

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

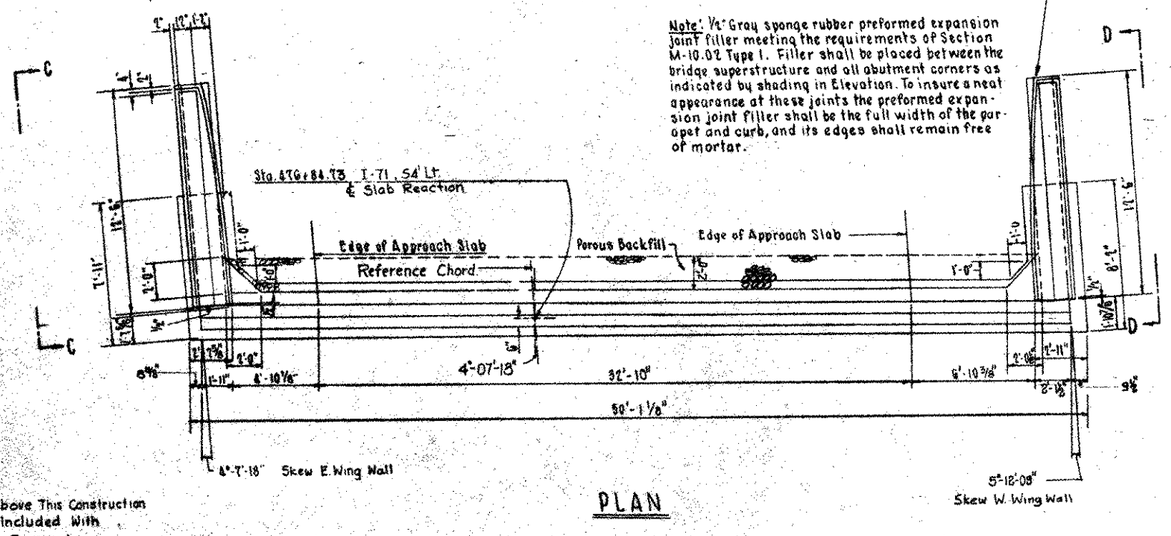
281
333

FRANKLIN COUNTY FRA-200-8.04

Note:
For location of pavement centerlines and pavement dimensions see General Plan and Elevations, Sheet № 278 and Site Plan, Sheet № 277

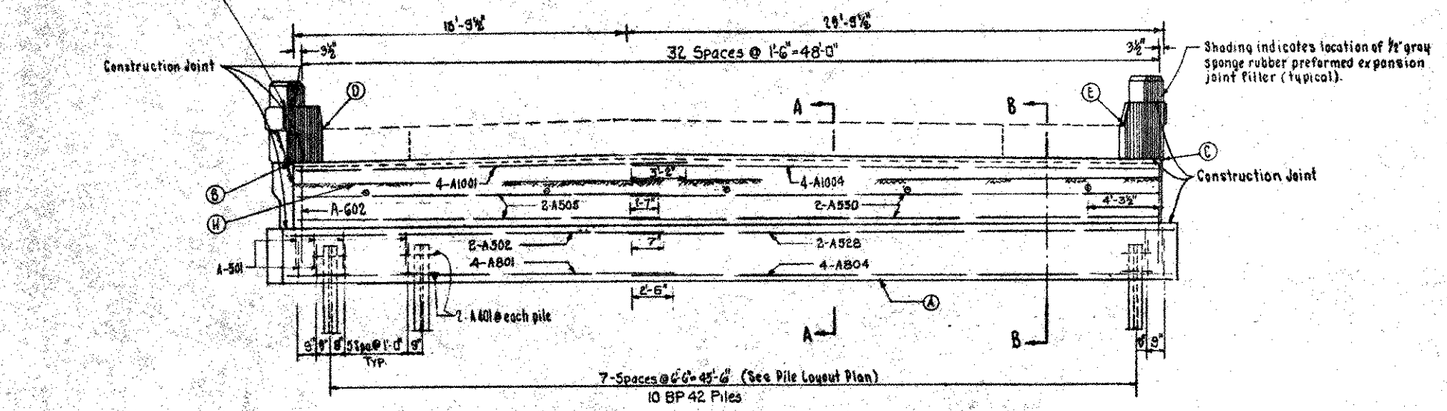
Curb Note:
For Wingwall Curb Dimensions And Detail See Sheet № 279

Note: ½" Gray sponge rubber preformed expansion joint filler meeting the requirements of Section M-10.02 Type 1. Filler shall be placed between the bridge superstructure and all abutment corners as indicated by shading in Elevation. To insure a neat appearance at these joints the preformed expansion joint filler shall be the full width of the parapet and curb, and its edges shall remain free of mortar.

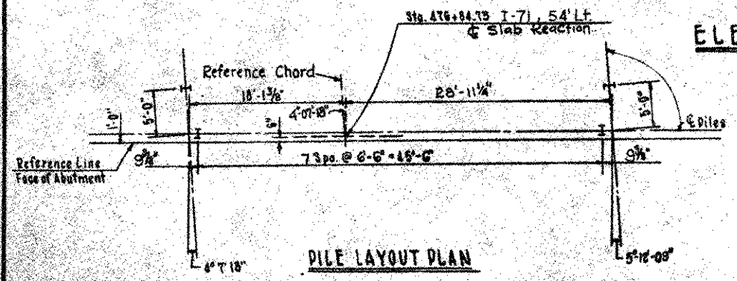


PLAN

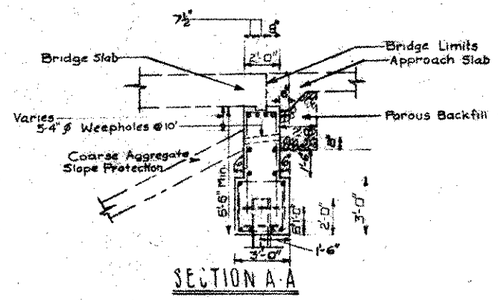
Concrete Above This Construction Joint to be Included With Railing for Payment



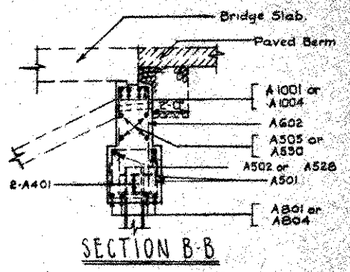
ELEVATION



PILE LAYOUT PLAN



SECTION A-A



SECTION B-B

ELEVATIONS						
Location	A	B	C	D	E	H
Rear Abutment.	750-60	757-23	757-10	759-12	758-93	756-10

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CONSULTING ENGINEERS
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REAR ABUTMENT DETAILS (SB)
BRIDGE NO. FRA-200-RAMP "A"
UNDER I-71 NORTHBOUND AND SOUTHBOUND
FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

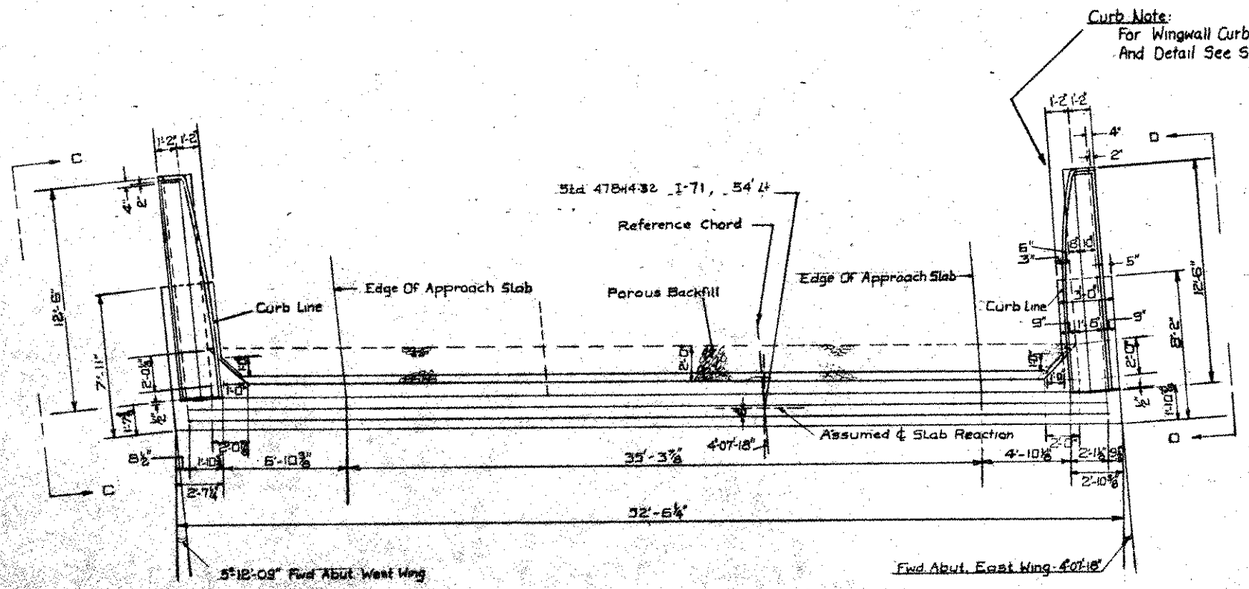
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JKS	R.C.	W.E.C.	RC	J.E.H.	12/1964	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

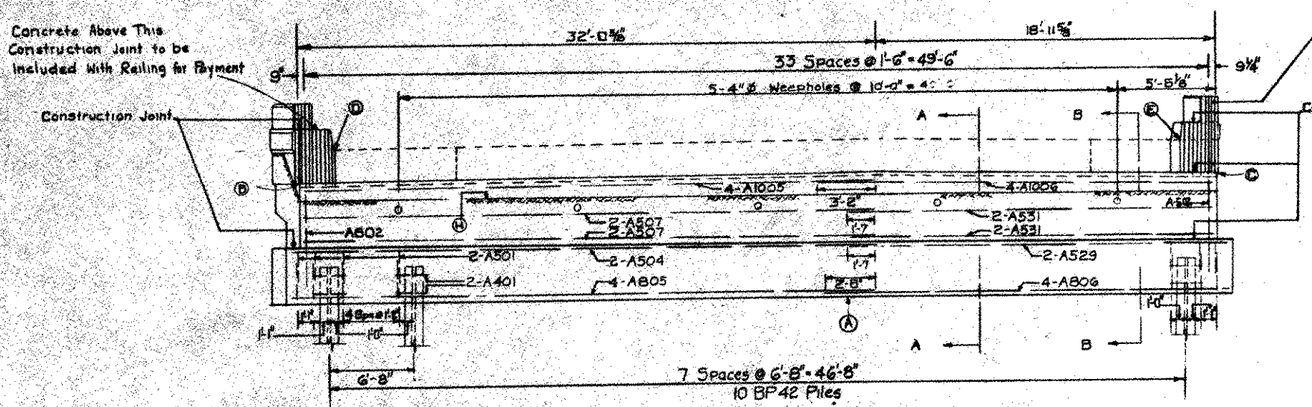
282
333

FRANKLIN COUNTY FRA-200-8.04

Curb Note:
For Wingwall Curb Dimensions
And Detail See Sheet No 279

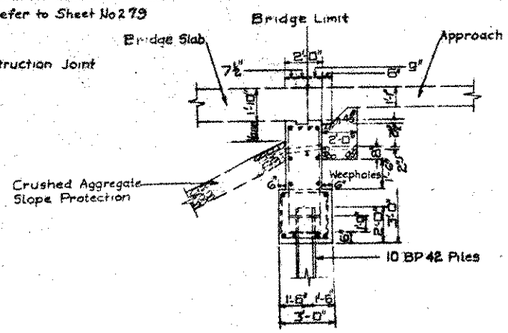


PLAN

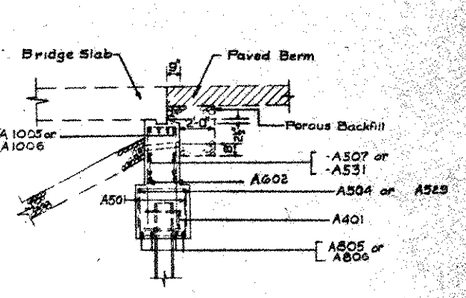


ELEVATION

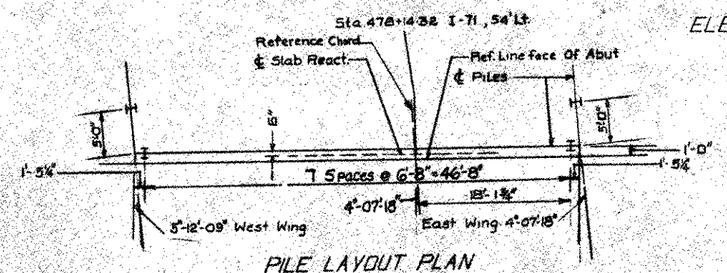
Typical Expansion Joint
Filler For Notes and Detail
Refer to Sheet No 279
Construction Joint



SECTION-AA



SECTION B-B



PILE LAYOUT PLAN

	ELEVATION					
LOCATION	A	B	C	D	E	H
FWD ABUTMENT	749·80	756·30	756·53	758·14	758·36	755·30

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CONSULTING ENGINEERS
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FORWARD ABUTMENT DETAILS (SHEET 6 OF 6)
BRIDGE NO. FRA-200-RAMP "A"
UNDER I-71 NORTHBOUND AND SOUTHBOUND
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA.

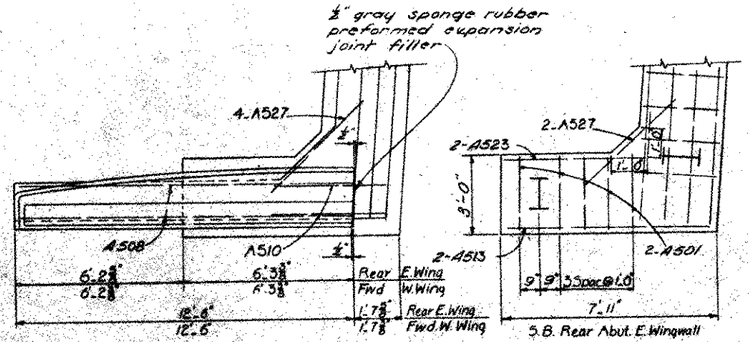
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JKS	JKS	JKS	EC	J.E.F.	12/1964	

6

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

283/333

FRANKLIN COUNTY FRA-200-8.04

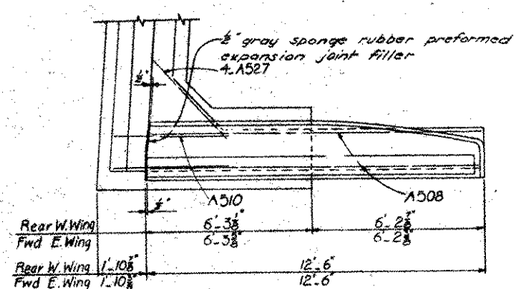


S.B. Rear Abut. E. Wingwall
S.B. Fwd. Abut. W. Wingwall

PLAN OF VIEW C-C

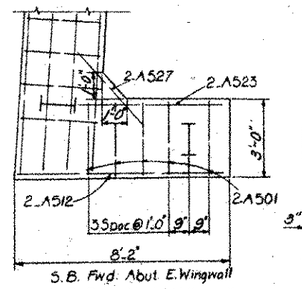
S.B. Rear Abut. E. Wingwall
S.B. Fwd. Abut. W. Wingwall

FOOTING PLAN OF VIEW C-C



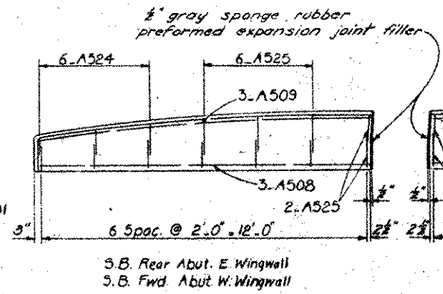
S.B. Fwd. Abut. E. Wingwall
S.B. Rear Abut. W. Wingwall

PLAN OF VIEW D-D



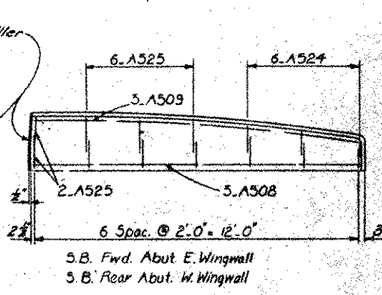
S.B. Fwd. Abut. E. Wingwall
S.B. Rear Abut. W. Wingwall

FOOTING PLAN OF VIEW D-D



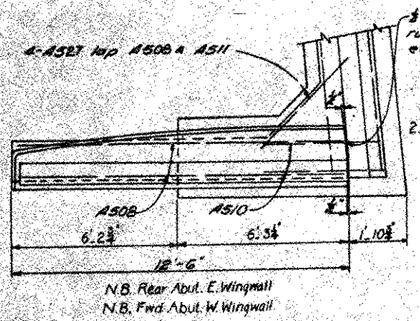
S.B. Rear Abut. E. Wingwall
S.B. Fwd. Abut. W. Wingwall

CURB PLAN OF VIEW C-C



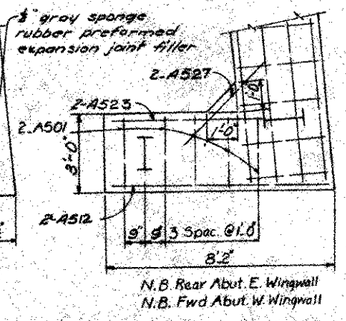
S.B. Fwd. Abut. E. Wingwall
S.B. Rear Abut. W. Wingwall

CURB PLAN OF VIEW D-D



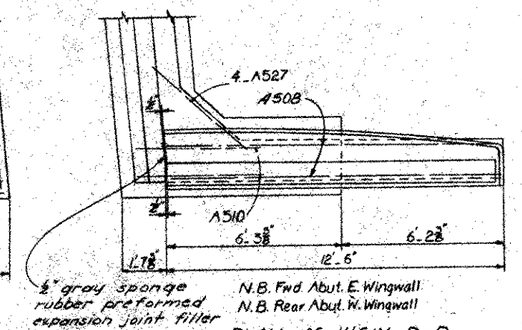
N.B. Rear Abut. E. Wingwall
N.B. Fwd. Abut. W. Wingwall

PLAN OF VIEW C-C



N.B. Rear Abut. E. Wingwall
N.B. Fwd. Abut. W. Wingwall

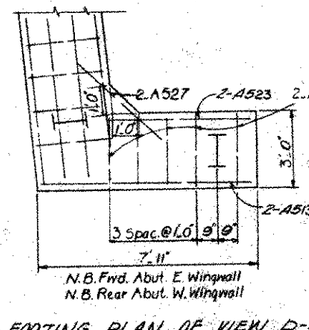
FOOTING PLAN OF VIEW C-C



½" gray sponge rubber preformed expansion joint filler

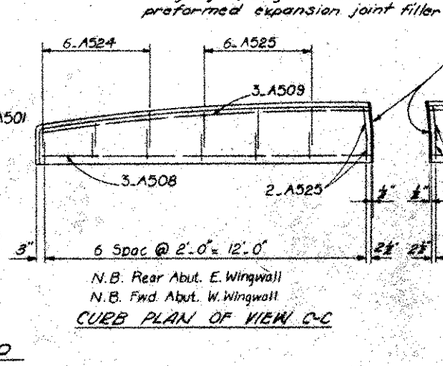
N.B. Fwd. Abut. E. Wingwall
N.B. Rear Abut. W. Wingwall

PLAN OF VIEW D-D



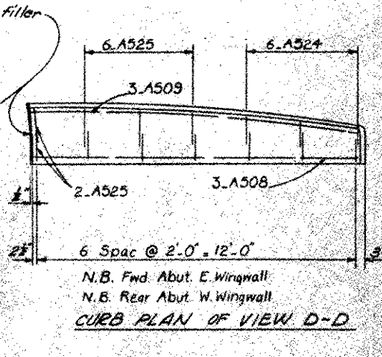
N.B. Fwd. Abut. E. Wingwall
N.B. Rear Abut. W. Wingwall

FOOTING PLAN OF VIEW D-D



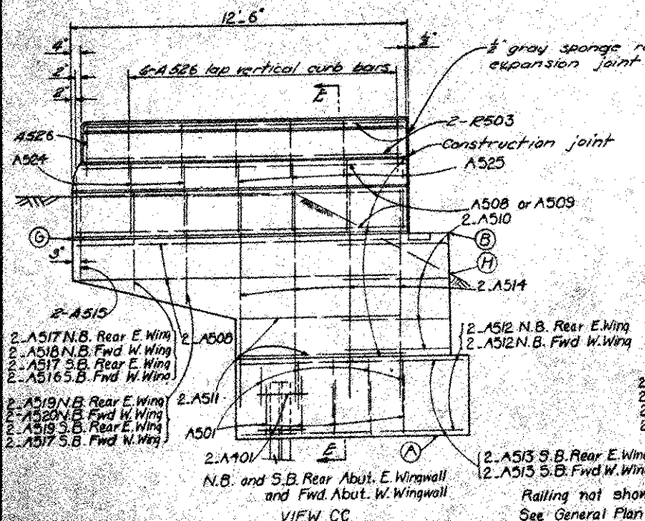
N.B. Rear Abut. E. Wingwall
N.B. Fwd. Abut. W. Wingwall

CURB PLAN OF VIEW C-C



N.B. Fwd. Abut. E. Wingwall
N.B. Rear Abut. W. Wingwall

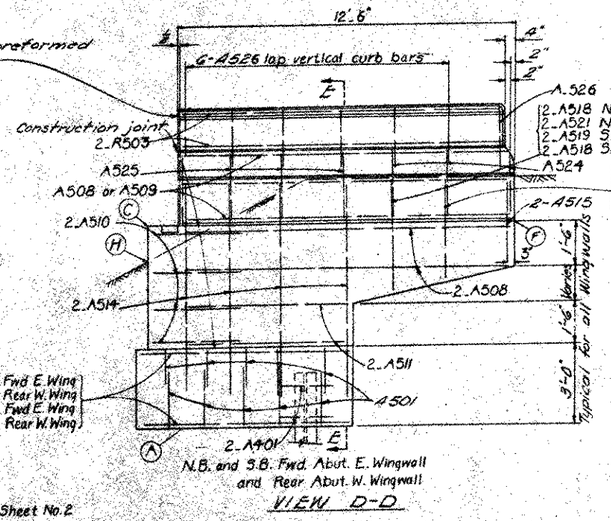
CURB PLAN OF VIEW D-D



N.B. and S.B. Rear Abut. E. Wingwall and Fwd. Abut. W. Wingwall

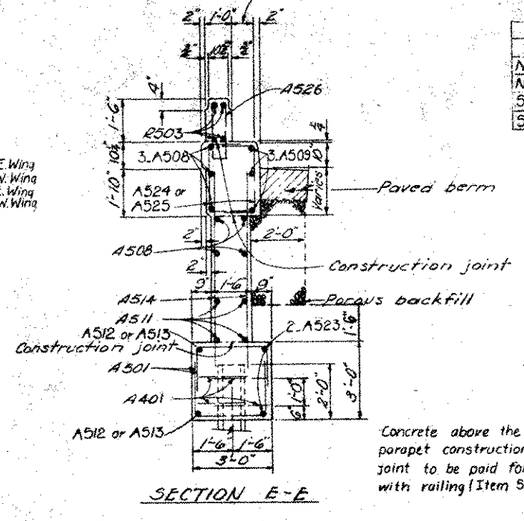
VIEW CC

Railing not shown
See General Plan & Elev. Sheet No. 2



N.B. and S.B. Fwd. Abut. E. Wingwall and Rear Abut. W. Wingwall

VIEW DD



SECTION E-E

Concrete above the parapet construction joint to be paid for with railing (Item S-14)

Notes
S.B. indicates Southbound Bridge
N.B. indicates Northbound Bridge

LOCATION	ELEVATIONS A	B	C	F	G	H
N.B. Rear Abut.	750.10	756.77	757.29	757.37	756.85	755.77
N.B. Fwd. Abut.	749.34	756.54	756.01	755.93	756.46	755.01
S.B. Rear Abut.	750.60	757.28	757.10	757.18	757.36	756.10
S.B. Fwd. Abut.	749.80	756.30	756.53	756.45	756.22	755.30

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

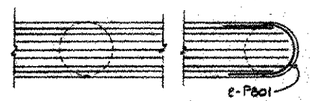
WINGWALL DETAILS
Bridge No. FRA-200-Ramp "A" Under I-71 Northbound and Southbound
FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.C.	R.C.	V.F.	JKS	J.E.P.	12/1961	

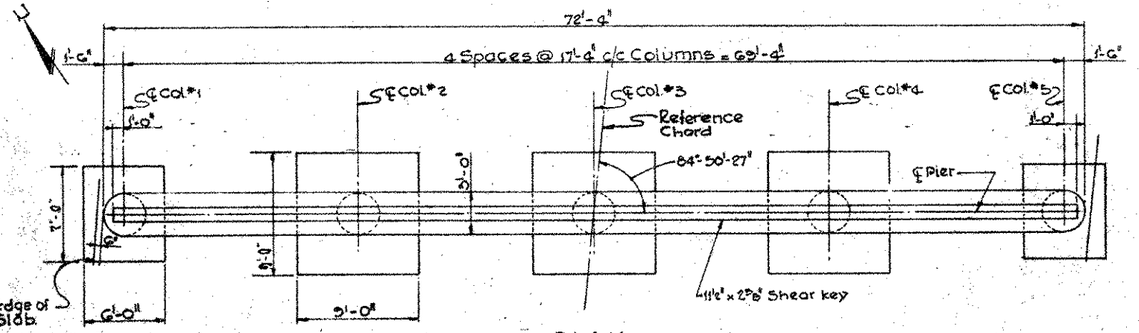
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

284
333

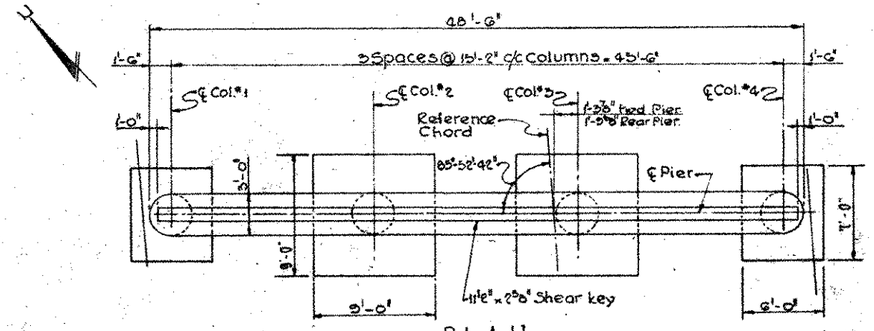
FRANKLIN COUNTY FRA-200-8.04



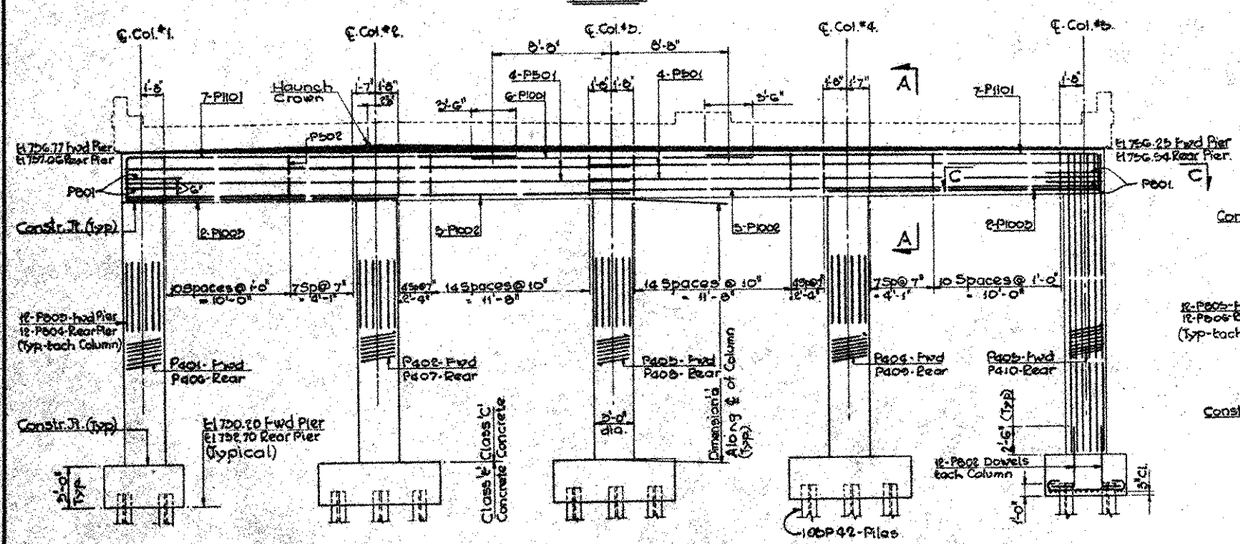
Section 'C-C'



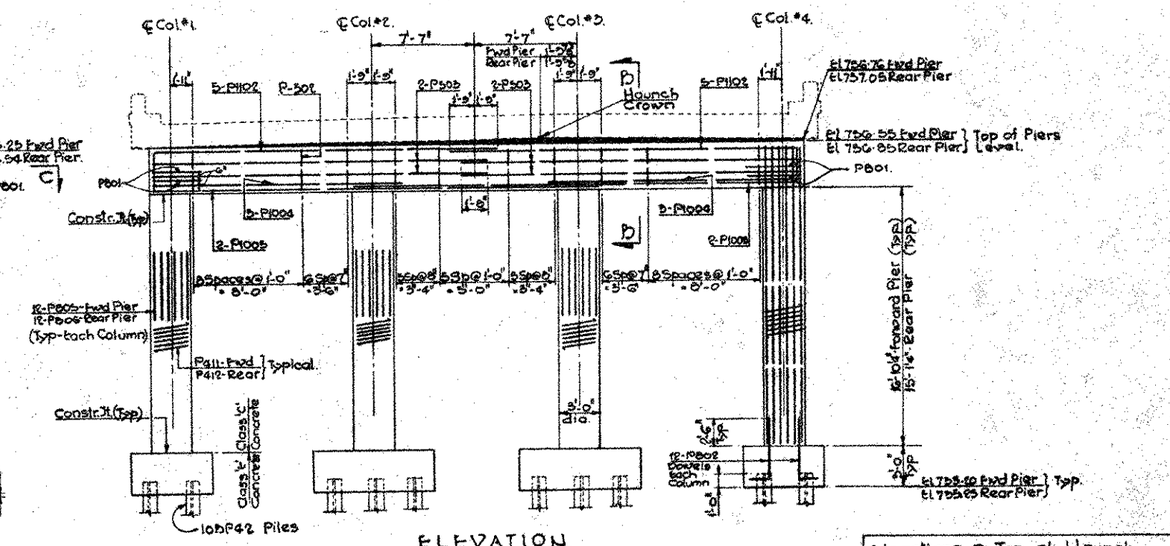
PLAN



PLAN

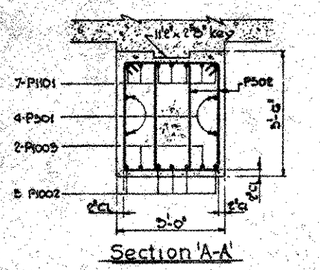


ELEVATION
Northbound Bridge

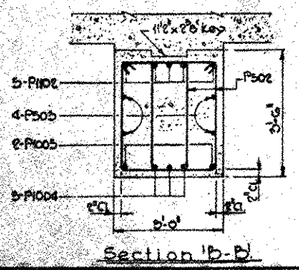


ELEVATION
Southbound Bridge

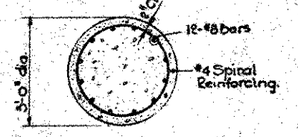
Elevations @ Top of Haunch.				
		At Col #1	At Crown	At Col #5 (Bus. M.S.)
North-bound Bridge	Rear Pier	757.06	757.51	756.54
	Fwd Pier	756.77	757.02	756.25
South-bound Bridge	Rear Pier	756.85	757.31	757.05
	Fwd Pier	756.55	757.02	756.76



Section 'A-A'

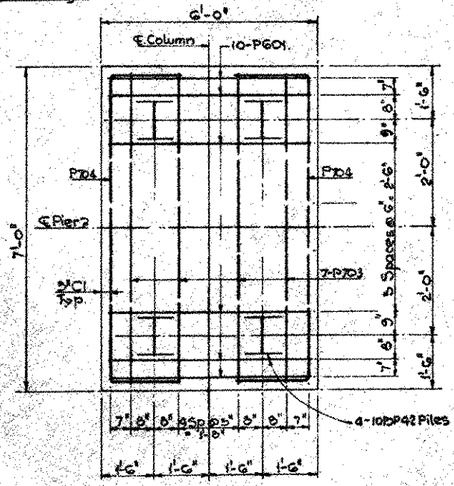


Section 'B-B'

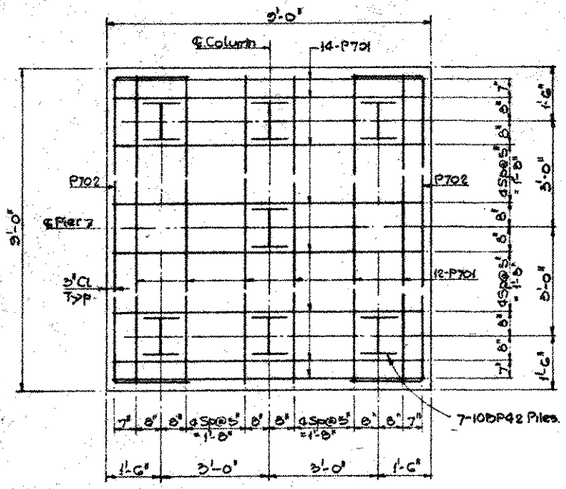


Typical Section thru Columns

Northbound Bridge.		
	Forward Pier	Rear Pier
Column	Dimension 'a'	Dimension 'a'
#1	20'-0¾"	17'-10¼"
#2	19'-11¼"	17'-8⅝"
#3	19'-9¾"	17'-7¼"
#4	19'-8¼"	17'-5⅝"
#5	19'-6¾"	17'-4¼"



PLAN
TYPICAL EXTERIOR FOOTING



PLAN
TYPICAL INTERIOR FOOTING

Notes: Shaded area indicates haunch between Pier Cap and Superstructure.

Concrete Class 'C' in Columns and Pier Caps.
Concrete Class 'E' in Footings.

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PIER DETAILS

BRIDGE No. FRA-200-RAMP 'A'
UNDER I-71 Northbound & Southbound.
FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.C.	R.C.	N.C.	J.K.S.	Jeff	10/61	

8

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

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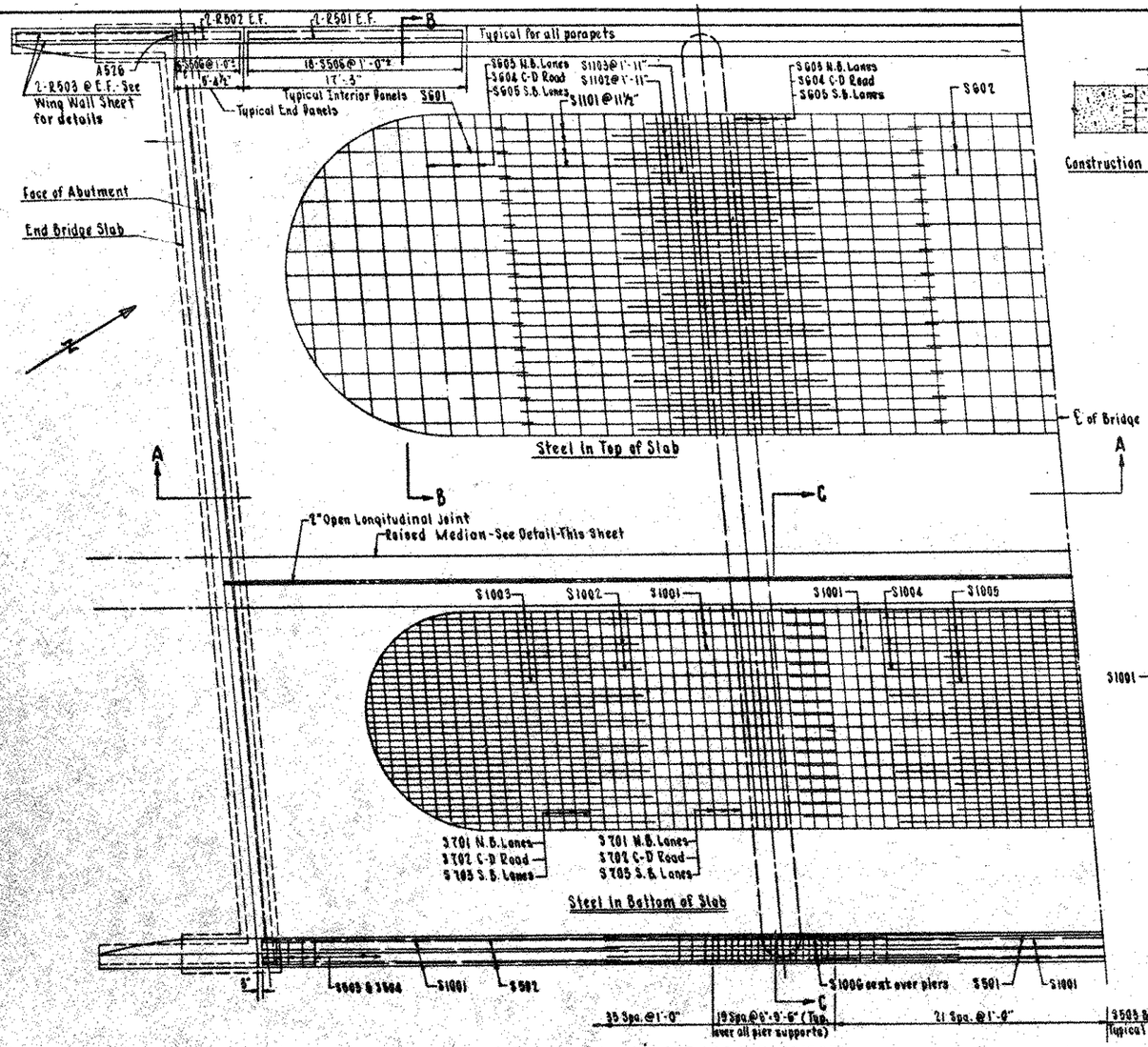
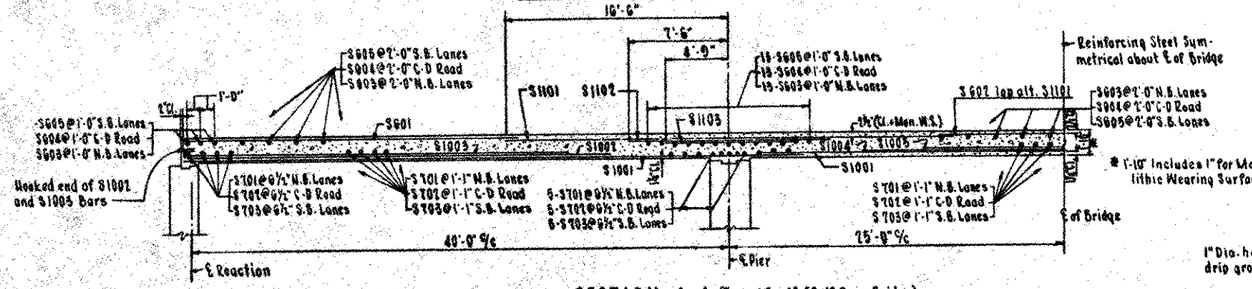
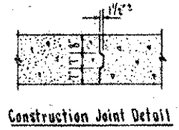
FRANKLIN COUNTY FRA-200-8.04



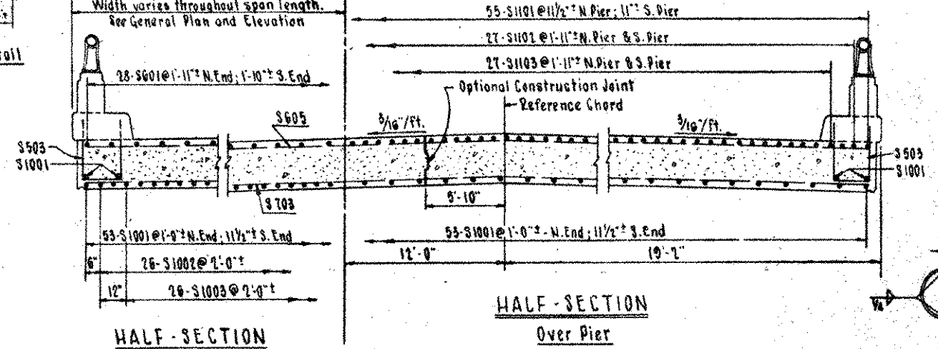
PART PLAN - NORTHBOUND BRIDGE



SECTION A-A (Typical for 40-50-40 Span Bridge)
(See Note - This Sheet)
N.B. Lanes Shown - C-D Road and S.B. Bridge same

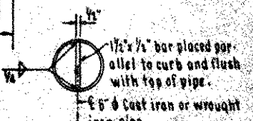


Construction Joint Detail



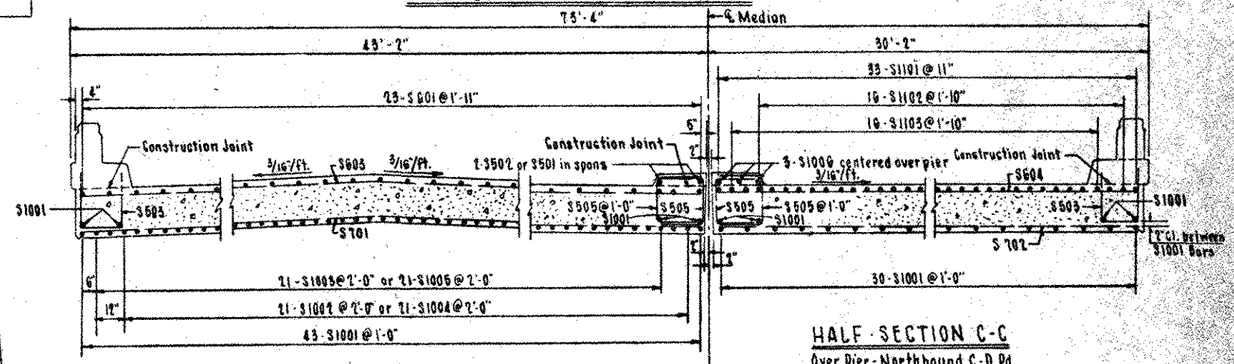
HALF - SECTION
In End Span

HALF - SECTION
Over Pier



Scupper Detail

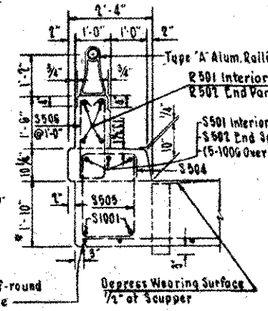
SOUTHBOUND BRIDGE - LOOKING NORTH



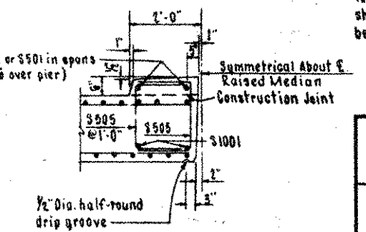
HALF - SECTION B-B
In End Span
Northbound Lanes

HALF - SECTION C-C
Over Pier - Northbound C-D Rd.

NORTHBOUND BRIDGE
Looking North



CURB DETAIL
(Typical For All Curbs)



RAISED MEDIAN DETAIL

Notes

1. For Superstructure Reinforcing Detail, Reference shall be made to Drawings N°CS-2-54, Sheets 1 and 2 of "Standard Bridge Drawings" of the State of Ohio, Department of Highways, Bureau of Bridges.
2. Curbs shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to attain dead load deflection.
3. Concrete shall be Class "C".
4. 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.

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- Superstructure Details -

Bridge N° FRA-200- Ramp "A" Under I-71 Northbound and Southbound

FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.S.	N.E.C.	N.E.C.	C.E. 10-5-61	J.E.F.	12/1961	

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

FRANKLIN COUNTY FRA-200-8.04

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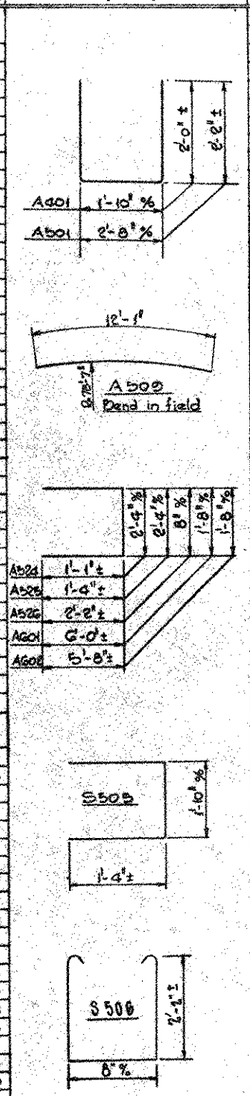
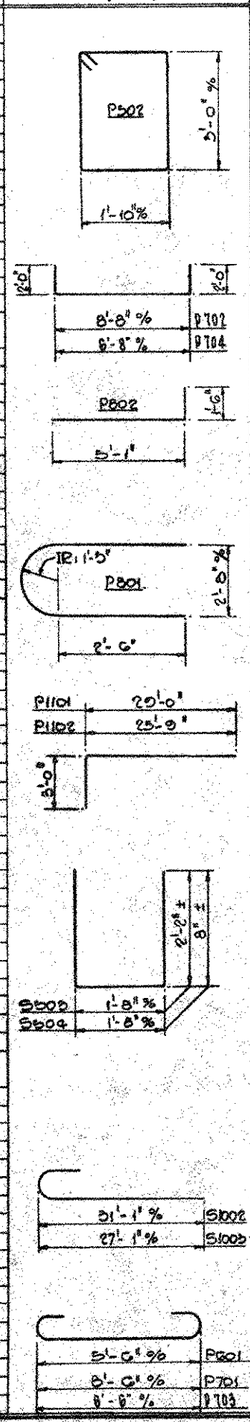
REINFORCING STEEL LIST

Mark	Nº	Length	Weight	Sh'p
ABUTMENTS NORTH-BOUND BRIDGE				
A401	112	5'-7"	418	B
A501	276	6'-9"	1946	B
A502	4	21'-2"	88	S
A503	4	23'-10"	99	S
A504	4	32'-5"	135	S
A505	8	20'-5"	170	S
A506	3	23'-10"	103	S
A507	8	29'-9"	248	S
A508	28	12'-1"	355	S
A509	12	12'-1"	151	S
A510	34	3'-3	115	S
A511	16	6'-1"	102	S
A512	4	7'-10"	33	S
A513	4	7'-7"	32	S
A514	32	7'-4"	245	S
A515	8	3'-0"	25	S
A516	2	3'-2"	7	S
A517	2	3'-4"	7	S
A518	4	3'-5"	14	S
A519	4	3'-6"	15	S
A520	2	3'-10"	8	S
A521	2	3'-11"	8	S
A525	8	5'-9"	48	S
A526	24	4'-3"	106	B
A525	32	4'-9"	159	B
A526	28	4'-9"	139	B
A527	24	4'-6"	113	S
A601	58	15'-4"	1162	B
A602	40	12'-8"	761	B
A801	8	22'-1"	472	S
A802	8	23'-10"	509	S
A803	8	33'-3"	712	S
A1001	8	22'-0"	757	S
A1002	8	23'-10"	820	S
A1003	8	29'-11"	1030	S
ABUTMENTS SOUTH-BOUND BRIDGE				
A401	80	5'-7"	299	B
A501	210	6'-9"	1478	B
A502	2	21'-2"	44	S
A504	2	32'-5"	68	S
A505	4	20'-5"	85	S
A506	28	12'-1"	355	S
A509	12	12'-1"	151	S
A510	34	3'-3"	115	S
A511	16	6'-1"	102	S
A512	4	7'-10"	33	S
A513	4	7'-7"	32	S
A514	32	7'-4"	245	S
A515	8	3'-0"	25	S
A516	2	3'-2"	7	S
A517	4	3'-4"	14	S
A522	4	3'-3"	14	S
A525	8	5'-9"	48	S
A526	24	4'-3"	106	B
A525	32	4'-9"	159	B
A526	28	4'-9"	139	B
A527	24	4'-6"	113	S
A528	2	30'-3"	63	S
A529	2	21'-5"	45	S
A530	4	29'-5"	123	S
A531	4	20'-7"	86	S
A602	67	12'-8"	1275	B
A801	4	22'-1"	236	S
A804	4	30'-3"	323	S
A805	4	32'-5"	346	S
A806	4	22'-4"	238	S
A1001	4	22'-0"	378	S
A1004	4	29'-5"	506	S
A1005	4	31'-8"	545	S
A1006	4	22'-2"	382	S
A 507	4	31'-8"	132	S
A 518	2	3'-5"	7	S
A 519	4	3'-6"	15	S



Mark	Nº	Length	Weight	Sh'p
PIERS NORTH-BOUND BRIDGE				
P501	16	37'-5"	624	S
P502	296	10'-2"	3139	B
P601	40	6'-10"	410	B
P701	156	10'-2"	3367	B
P702	12	12'-3"	333	B
P801	8	9'-1"	194	B
P802	120	6'-4"	2029	B
P805	60	22'-7"	3618	S
P806	60	20'-5"	3271	S
P1001	12	20'-10"	1075	S
P1002	20	37'-5"	3220	S
P1005	8	20'-1"	691	S
P1101	28	51'-8"	4637	B
P 703	28	8'-2"	467	B
P 704	8	10'-3"	168	B
PIERS SOUTH-BOUND BRIDGE				
P502	184	10'-2"	1951	B
P505	16	24'-11"	416	S
P601	40	6'-10"	410	B
P701	104	10'-2"	2276	B
P702	8	12'-3"	133	B
P801	8	9'-1"	194	B
P802	96	6'-4"	1623	B
P805	48	19'-10"	2542	S
P806	48	18'-1"	2318	S
P1004	12	18'-0"	929	S
P1005	8	33'-2"	1142	S
P1102	20	28'-5"	3020	B
P 703	28	8'-2"	467	
P 704	8	10'-3"	168	
SUPERSTRUCTURE NORTH-BOUND BRIDGE				
S501	10	25'-8"	268	S
S502	20	28'-5"	593	S
S503	302	5'-9"	1811	B
S504	302	2'-9"	866	B
S505	592	4'-8"	2356	B
S506	276	4'-9"	1367	B
S601	80	26'-0"	3124	S
S602	40	22'-10"	1572	S
S603	160	22'-8"	5247	S
S604	80	29'-6"	3585	S
S701	284	28'-4"	11505	B
S702	127	29'-6"	7498	B
S1001	245	45'-10"	47284	S
S1002	78	32'-4"	10017	B
S1003	78	28'-4"	8778	B
S1004	56	25'-0"	4492	S
S1005	36	21'-0"	3255	S
S1006	32	27'-6"	3766	S
S1101	156	32'-0"	20522	S
S1102	76	14'-6"	5855	S
S1103	76	9'-6"	3886	S
SUPERSTRUCTURE SOUTH-BOUND BRIDGE				
S501	6	25'-8"	161	S
S502	12	28'-5"	356	S
S505	302	5'-9"	1811	B
S504	302	2'-9"	866	B
S601	56	26'-0"	2187	S
S602	28	22'-10"	960	S
S605	160	26'-6"	6368	S
S703	254	26'-6"	10758	S
S1001	171	45'-10"	53725	S
S1002	52	32'-4"	7256	B
S1003	52	28'-4"	6240	B
S1004	26	25'-0"	3244	S
S1005	26	21'-0"	2548	S
S1006	20	27'-6"	2567	S
S 506	276	4'-9"	1367	B
S1101	110	32'-0"	18702	S
S1102	54	14'-6"	4160	S
S1103	54	9'-6"	2726	S



Mark	Nº	Length	Weight	Sh'p
RAILING BOTH BRIDGES				
R501	112	17'-0"	‡	S
R502	32	5'-1"	‡	S
R503	32	41'-8	‡	S
REPLACEMENT BARS				
Rt401	1	5'-5"		S
Rt 402	1	5'-2"		B
Rt 501	2	5'-7"		S
Rt601	2	5'-11"		S
Rt 701	2	6'-2"		S
Rt801	1	6'-6"		S
Rt1001	8	7'-2"		S
Rt 1101	4	7'-6"		S

‡ To be included with railing for payment.

SPIRAL REINFORCING BARS

Mark	Nº	Core Diam. & Spiral	Length	Pitch	No. of Turns	Weight
NORTH-BOUND BRIDGE						
P401	1	52"	20'-0"	3"	85	518
P402	1	52"	19'-11"	3"	85	518
P403	1	52"	19'-9"	3"	84	513
P404	1	52"	19'-8"	3"	84	513
P405	1	52"	19'-6"	3"	81	506
P406	1	38"	17'-10"	3"	74	463
P407	1	38"	17'-8"	3"	74	463
P408	1	38"	17'-7"	3"	73	456
P409	1	38"	17'-5"	3"	73	456
P410	1	52"	17'-4"	3"	72	450
SOUTH-BOUND BRIDGE						
P411	4	52"	16'-10"	3"	70	1750
P412	4	52"	15'-1"	3"	63	1574

General Notes

REFERENCE shall be made to Standard Drawing CS-2-54 *Sheet Nº 1 & 2 revised 2-2-59 and AR-1-57 revised 4-2-62*

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways dated 9-1-1957 together with revisions thereof.

EXCAVATION: Excavation quantity includes the removal of fill material between the surface of proposed embankment and bottom of footings.

EXCAVATION QUANTITY: for the piers includes the removal of fill material required for construction of the piers.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

PILES: shall be driven to a bearing capacity as follows:

Abutments:
- Northbound = 32.46 tons per pile
- Southbound = 34.85 tons per pile

Piers:
- Northbound = 33.6 tons per pile
- Southbound = 34.05 tons per pile

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. For example, P801 is a Nº 9 size bar and P1001 is a Nº 10 size bar.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 3-4.02 need not be furnished and replacement bars will not be required.

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 deformations but shall in other respects conform to item S-4. 1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers weighing approximately 0.66 lb per lin. ft. of spacer, 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 0.66 lb. per lin. ft. will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

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REINFORCING STEEL LIST
Bridge No. FRA-200 Ramp "A" Under I-71 Northbound and Southbound
FRANKLIN COUNTY COLUMBUS OUTERBELT STA.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RC	WEC.	JEF	JKS	J.E.F.	10/1961	12-18-62

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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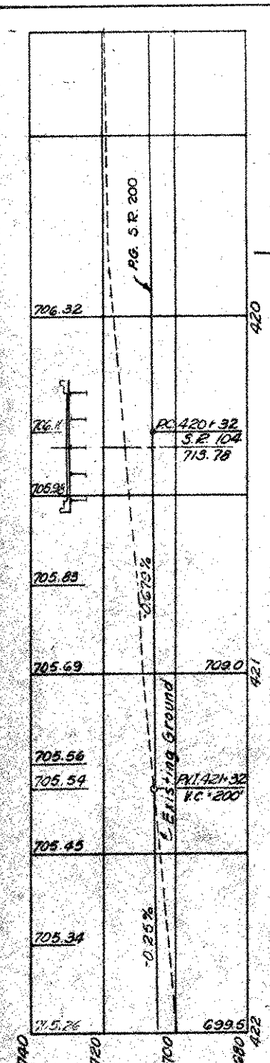
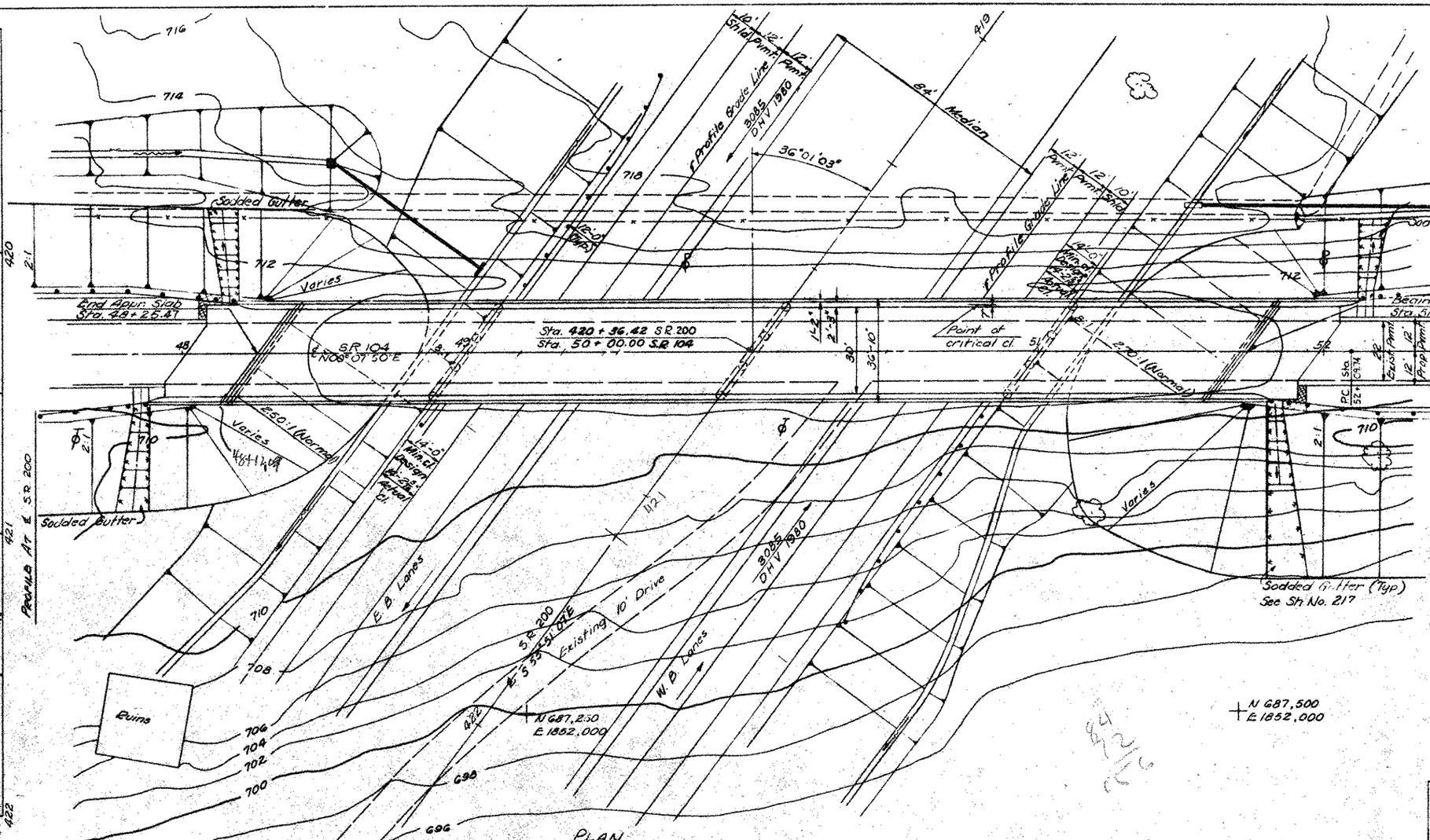
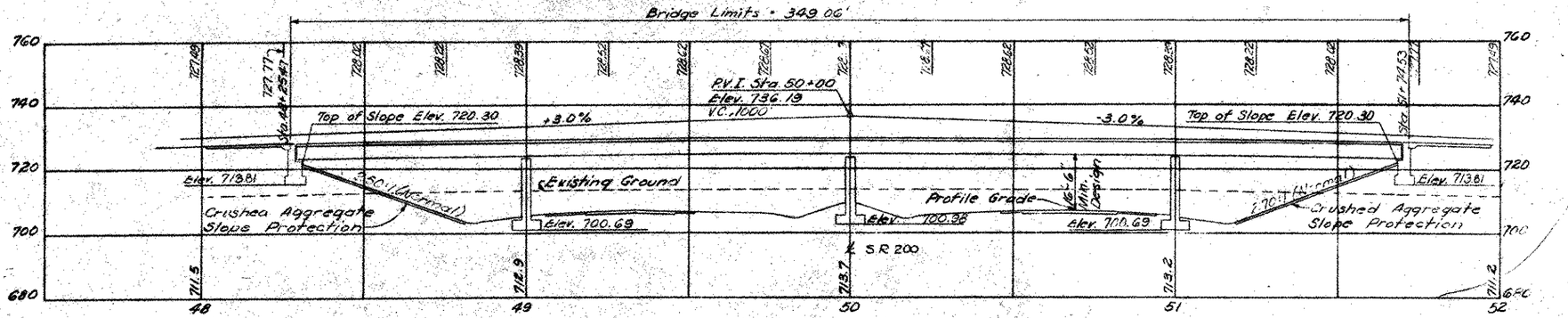
333

FRANKLIN COUNTY FRA-200-8.04





PLAN



PROFILE AT ℄ S.R. 104

B.M. - ℄ S.R. 200 Sta. 418+17 ± 206' ± Rt., R.R. spike in N. base 48" Oak Elev. 721.±04

B.M. - ℄ S.R. 200 Sta. 419+37 ± 187' ± Lt., Conc. R/W Mon. ℄ S.R. 104 Sta. 52+09.88, 30.2' Rt. Elev. 710.444

FOUNDATION SOUNDINGS:
Foundation Design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office but the State does not guarantee the accuracy thereof.

PROPOSED STRUCTURE
TYPE: 4 span continuous steel girders with reinforced concrete deck and substructure
SPANS: 70'-9", 101'-0", 101'-0", 70'-9"
ROADWAY: 34'-6" c/c of parapets
LOAD FREQUENCY: CF-400
SKEW: 36° 01' 03" L.F.
WEARING SURFACE: 1" monolithic concrete
APPROACH SLABS: A5-1-54 modified (25' long)
ALIGNMENT: S.R. 200, Tangent
S.R. 104, Tangent

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NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

also FRA-104-05.62

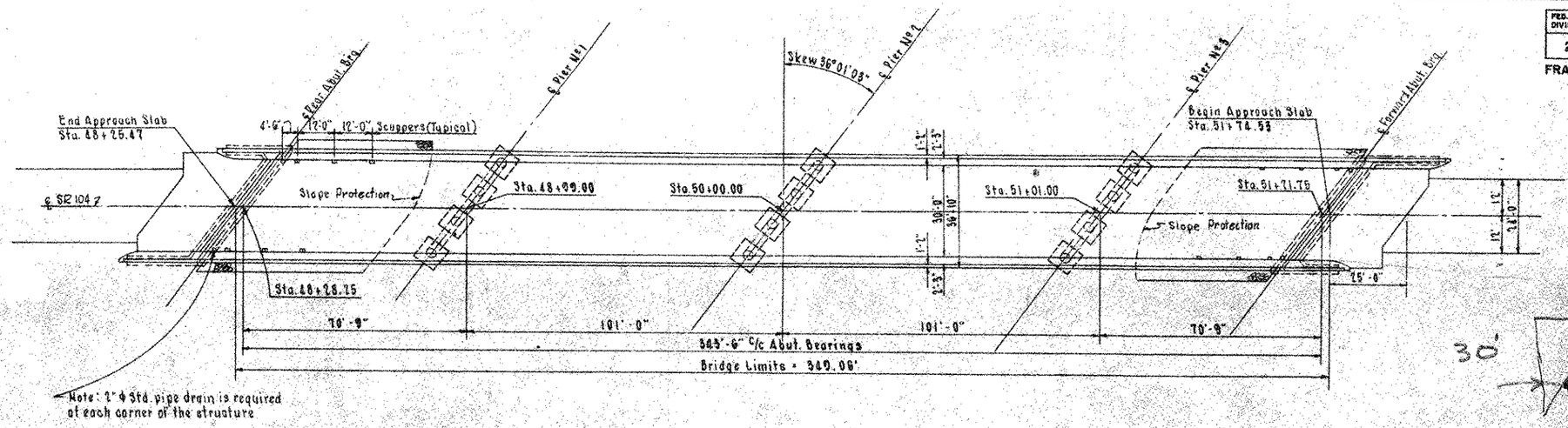
SITE PLAN
BRIDGE NO - FRA-200-0894
UNDER S.R. 104

FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 420+36.42

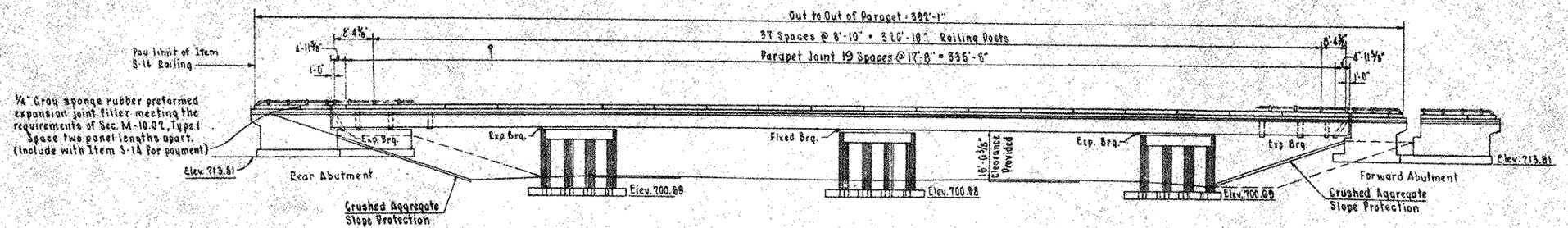
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	V.L.F.	K.L.F.	M.M.	C.E.	10-11-61	

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04



GENERAL PLAN



- ELEVATION -

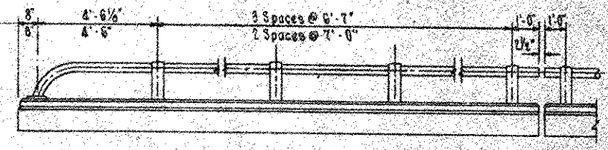
30'
36°01'03"

cos α = 30/x

x = 30 / cos 36°01'03"

= 30 / 0.8089

= 37.087'



- TYPICAL END POST DETAIL -

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT.	PIERS	GEN.
E-7	618	Cu.Yd.	Unclassified Excavation	–	353	265	
S-1	424	Cu.Yd.	Class "C" Concrete, Superstructure	424	–	–	
S-1	90	Cu.Yd.	Class "C" Concrete, Pier Columns and Caps	–	–	90	
S-1	166	Cu.Yd.	Class "E" Concrete, Abutments Above Footings	–	166	–	
S-1	136	Cu.Yd.	Class "E" Concrete, Footings	–	65	71	
Special	424	Each	Water-reducing, Set-retarding Admixture *	424			
S-4	~~81,250~~ 147,497	Lbs.	Reinforcing Steel	104,170	(4610	~~40,080~~ 38,687	
S-7	396,000	Lbs.	Structural Steel	396,000			
S-8	396,000	Lbs.	Field Painting of Structural Steel	396,000			
S-14	785	Lin.Ft.	Railing, Type A (Aluminum rail and supports, concrete parapet)	692	93		
S-29	12	Each	Scuppers	12			
S-29	41	Cu.Yd.	Porous Backfill		41		
E-10	840	Sq.Yd.	Crushed Aggregate Slope Protection		440		

(* See Proposal Note)

GENERAL NOTES

Reference shall be made to Standard Drawings RB-1-55 revised 2-2-59, AR-1-57 revised 8-2-61, CSB-2-60 sheet 2 and 3 of 6 revised 2-2-59 and to Supplemental Specifications S-207.10 dated 4-25-61 and S-307 dated 8-23-60

Machine Finish: The concrete bridge deck shall be finished by the use of a finishing machine.

Concrete Deck Placing: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections, between transverse construction joints which are normal to the centerline of bridge and are located near the center of any span.

Design Specifications: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with revisions thereof dated 2-21-58 and 2-15-61.

Crushed Aggregate Slope Protection: shall be provided under the structure at both abutments. The crushed material shall be 12" thick and shall extend from the face of the abutment down to the bottom of slope and transversely to 3ft. outside of the edge of the superstructure.

Foundation Bearing Pressure: Footings are designed for a maximum bearing pressure of 2 tons per sq. ft. for the abutments and 3 tons per sq. ft. for the piers. The actual foundation bearing pressures are as follows: 1.71 tons per sq. ft. for the abutments, 2.60 tons per sq. ft. for the piers.

Excavation Quantity: includes the removal of fill material between the surface of the proposed embankment and bottom of the footings.

Shop Painting Steel: The surface preparation of all steel, requiring shop painting as per the Plans and Specifications, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the Specifications regarding the use of Chromate Primers.

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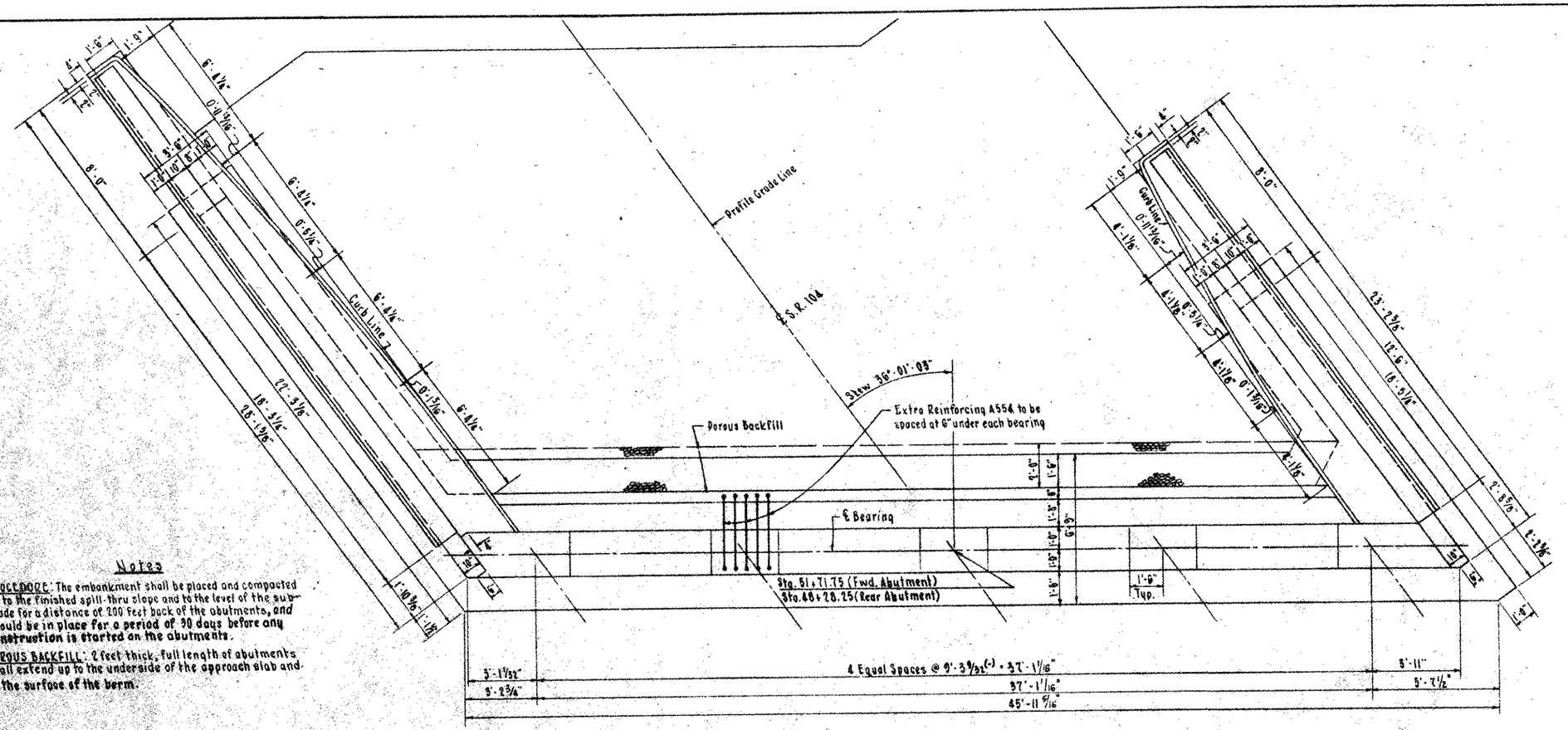
GENERAL PLAN AND ELEVATIONS
NOTES AND ESTIMATED QUANTITIES
BRIDGE № FRA-200-0894
UNDER S.R. 104
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 470+36.47

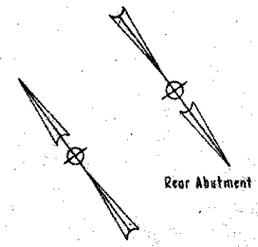
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	N.E.C.	N.E.C.	J.E.F.	JEF	12/61	12-18-62

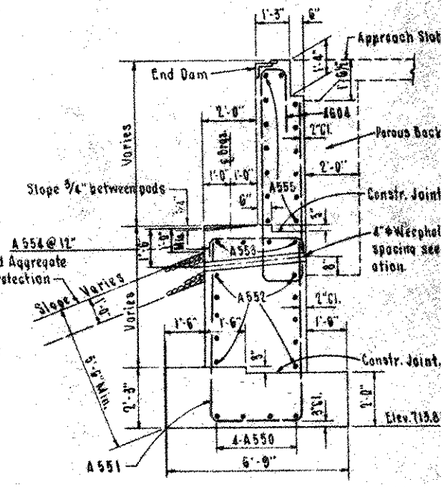
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

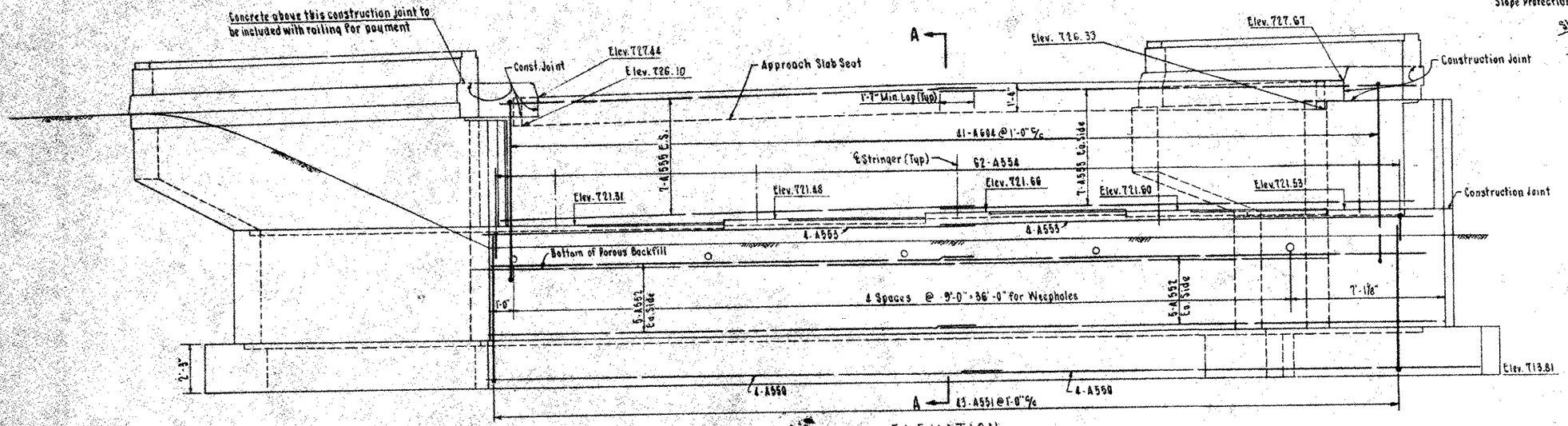


-PLAN-





SECTION A-A



-ELEVATION-

Notes

PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the sub-grade for a distance of 200 feet back of the abutments, and should be in place for a period of 90 days before any construction is started on the abutments.

POROUS BACKFILL: 2 feet thick, full length of abutments shall extend up to the underside of the approach slab and to the surface of the berm.

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ABUTMENT DETAILS
Bridge N° FRA-200-0804
Under S.R. 104

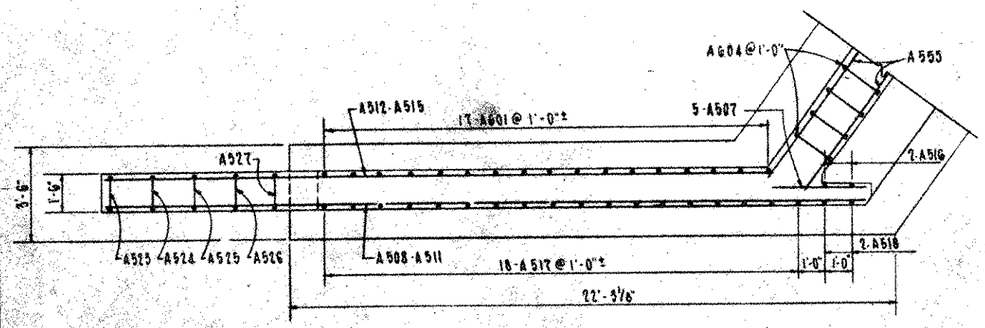
FRANKLIN COUNTY COLUMBUS, OH
STA. 42+32

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DAT
R.H.	NEC	N.E.C.	M.M.	JEF	12/6

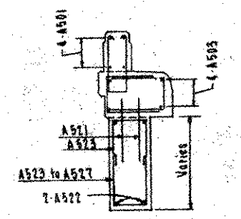
FED RD DIVISION	STATE	PROJECT	
2	OHIO		

290/333

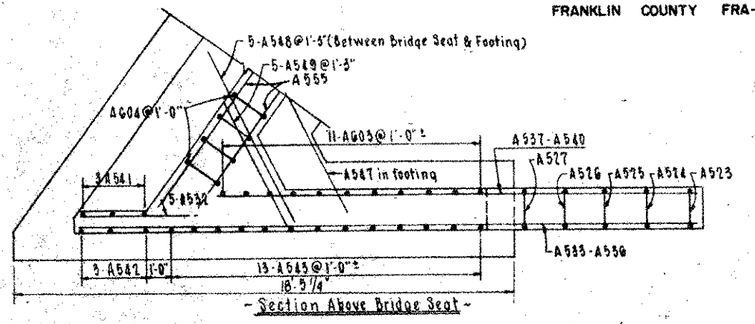
FRANKLIN COUNTY FRA-200-8.04



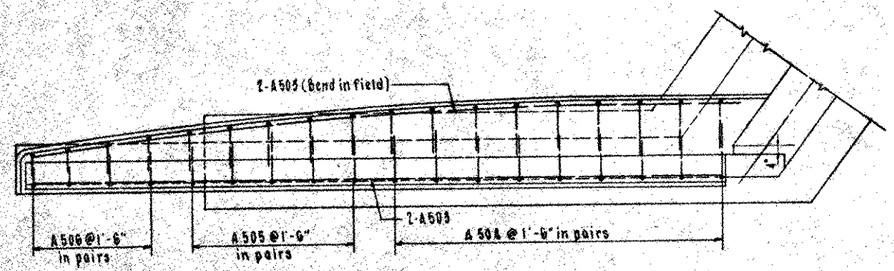
~ Section Above Bridge Seat ~



Section B-B

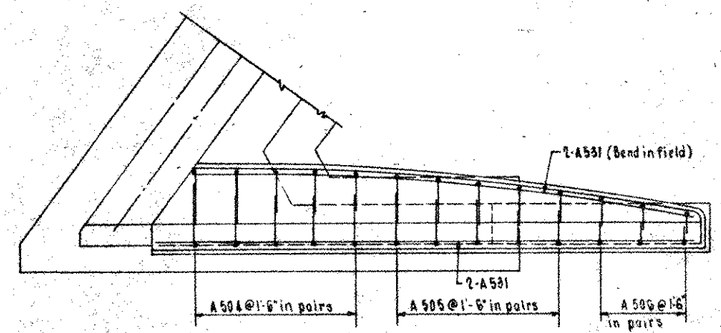


~ Section Above Bridge Seat ~

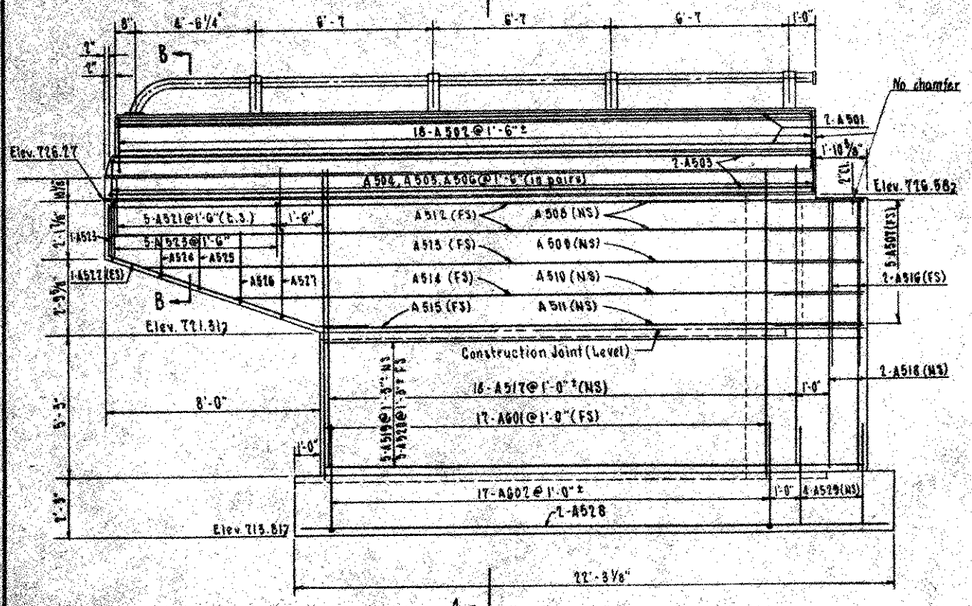


~ Curb Reinforcing Details ~

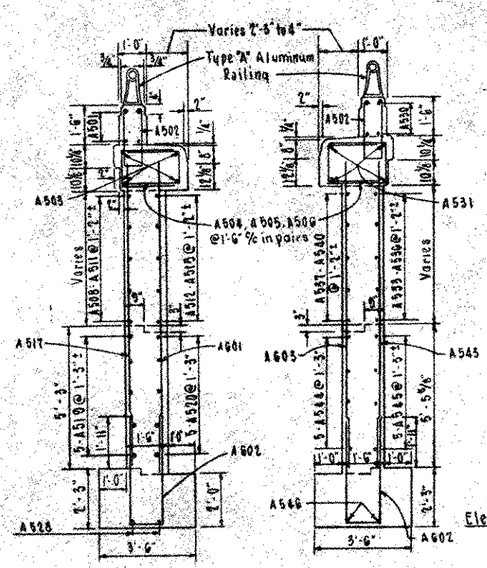
FS = Far Side
NS = Near Side
ES = Each Side



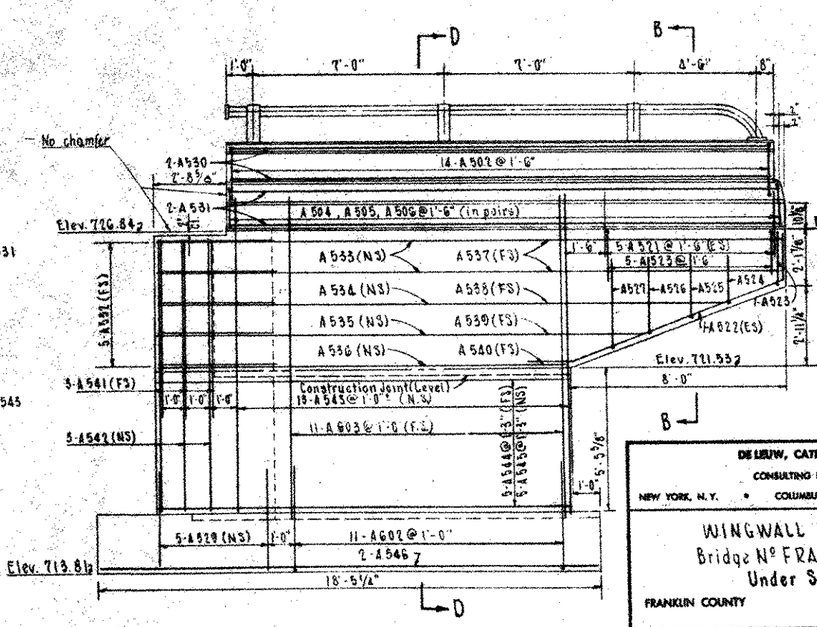
~ Curb Reinforcing Details ~



~ Rear East And Forward West Wingwalls ~



~ Section A-A ~ ~ Section D-D ~



~ Rear West And Forward East Wingwalls ~

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WINGWALL DETAILS
Bridge Nº FRA-200-0804
Under S.R.104
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 420+30.62

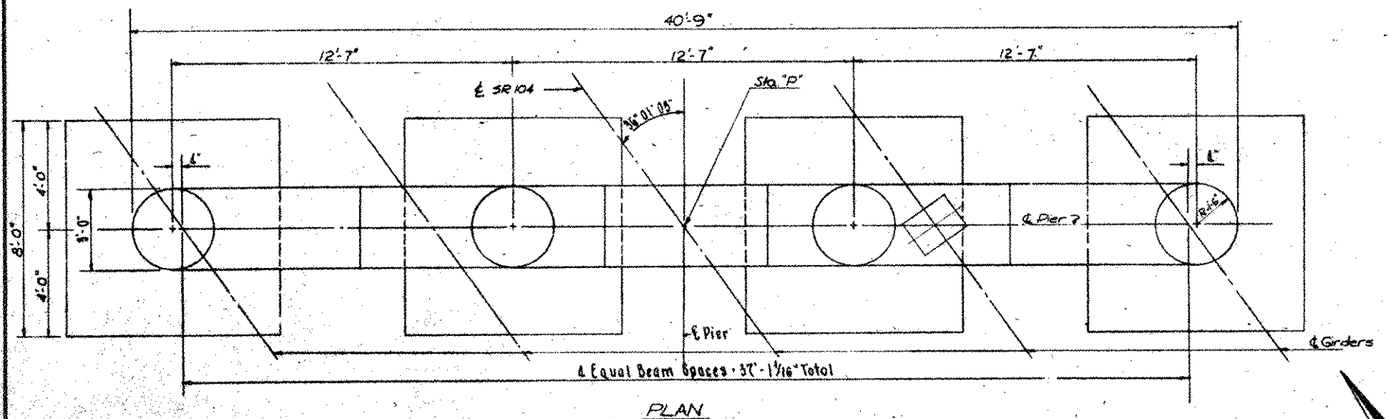
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	N.E.C.	N.E.C.	R.H.	J.E.F.	12/61	

4

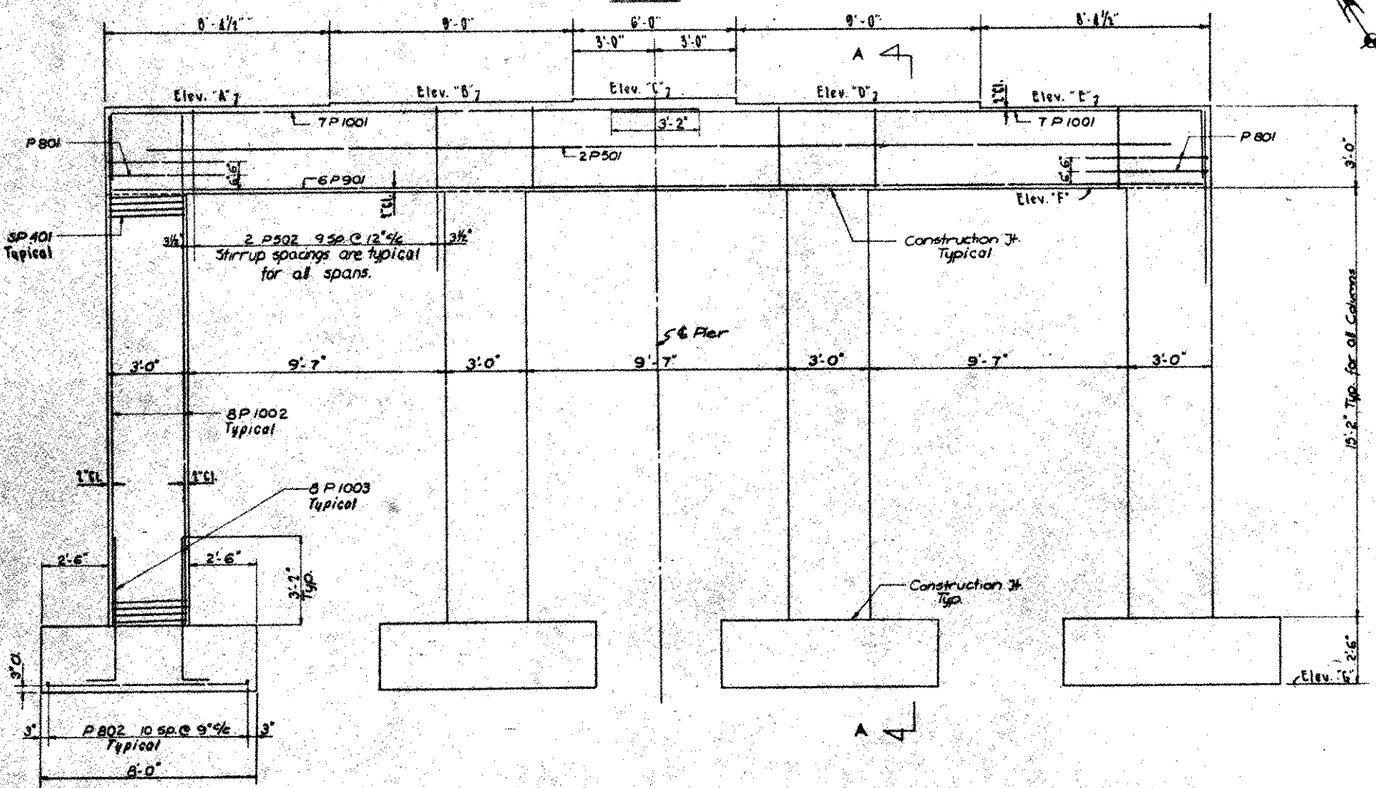
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

291
333

FRANKLIN COUNTY FRA-200-8.04

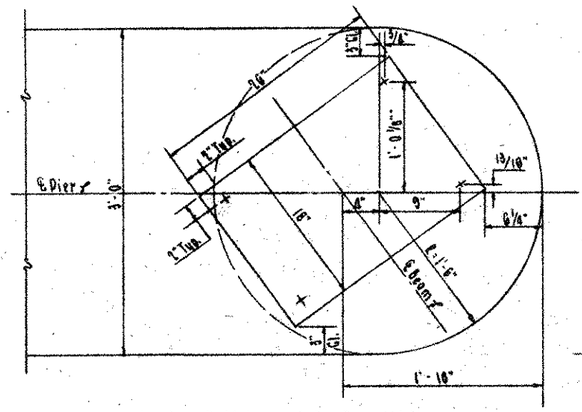


PLAN

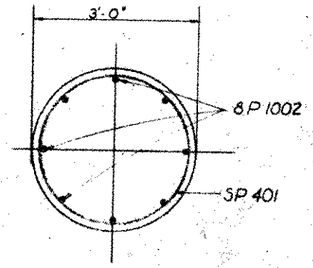


The reinforcement in all Columns and Footings is similar.

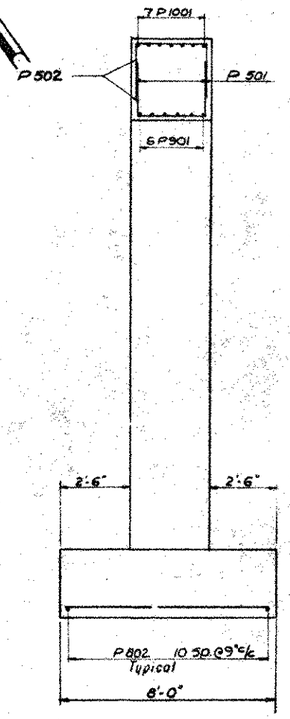
ELEVATION



Anchor Bolt Layout for Pier N° 7
Std. B-250 Bolster
Scale: 1½" = 1'-0"



Typical Column Section



SECTION A-A

Sta. "P"
Pier N° 1 · 48+99.00
Pier N° 2 · 50+00.00
Pier N° 3 · 51+01.00

Location	Elevation						
	A	B	C	D	E	F	G
Pier N°1	721.49	721.58	721.67	721.51	721.36	718.36	700.69
Pier N°2	721.65	721.77	721.89	721.77	721.65	718.65	700.98
Pier N°3	721.36	721.51	721.67	721.58	721.49	718.36	700.69

18.17
18.48

Notes:
All piers are similar except for Elevations. (See Table)

Special care shall be taken in placing reinforcing in the pier cap so that it will not interfere with the drilling of Bearing Plate Anchor Bolts.

Concrete Class "C" in Columns and Pier Caps

Concrete Class "E" in Footings

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PIER DETAILS
Bridge N° FRA-200-0894
Under S.R. 104

FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 420+36.41

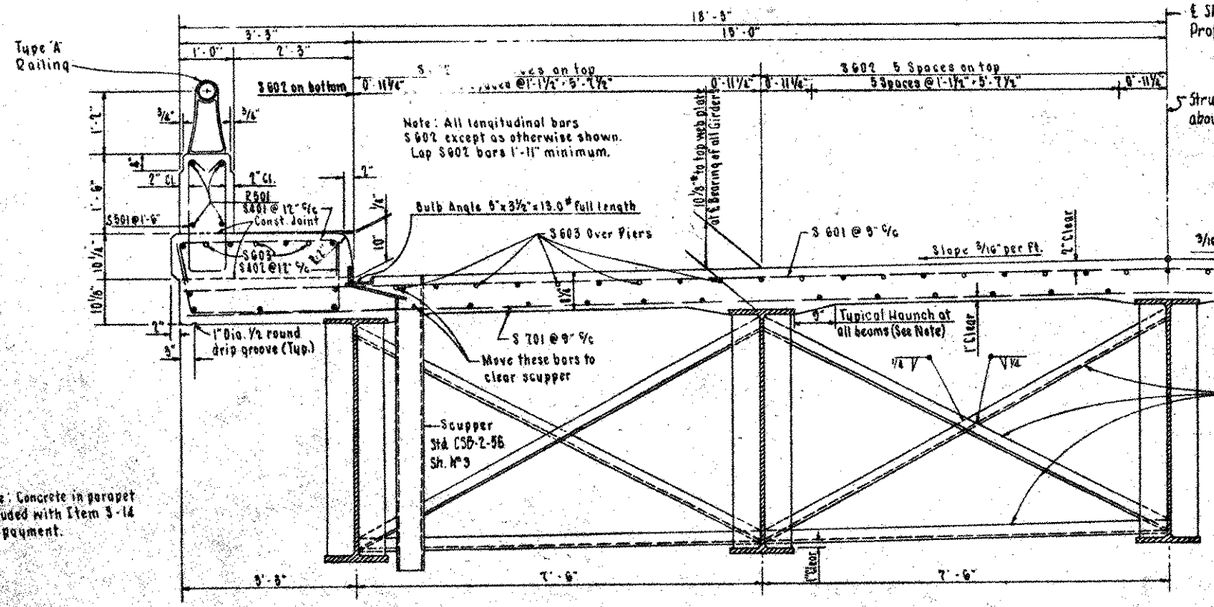
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	M.M.	M.M.	R.C.	J.E.P.	10/61	

5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

292
333

FRANKLIN COUNTY FRA-200-8.04



- TRANSVERSE HALF SECTION -

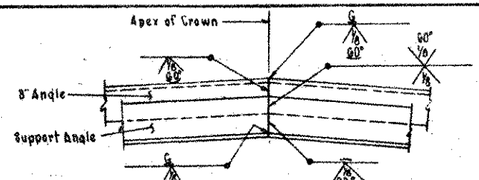
Note: Concrete in parapet included with Item S-14 for payment.

Intermediate cross frames L⁸ 5 x 3 x 5/16 weld both sides of vertical leg and top side of horizontal leg to web plate with 1/4" continuous fillet weld.

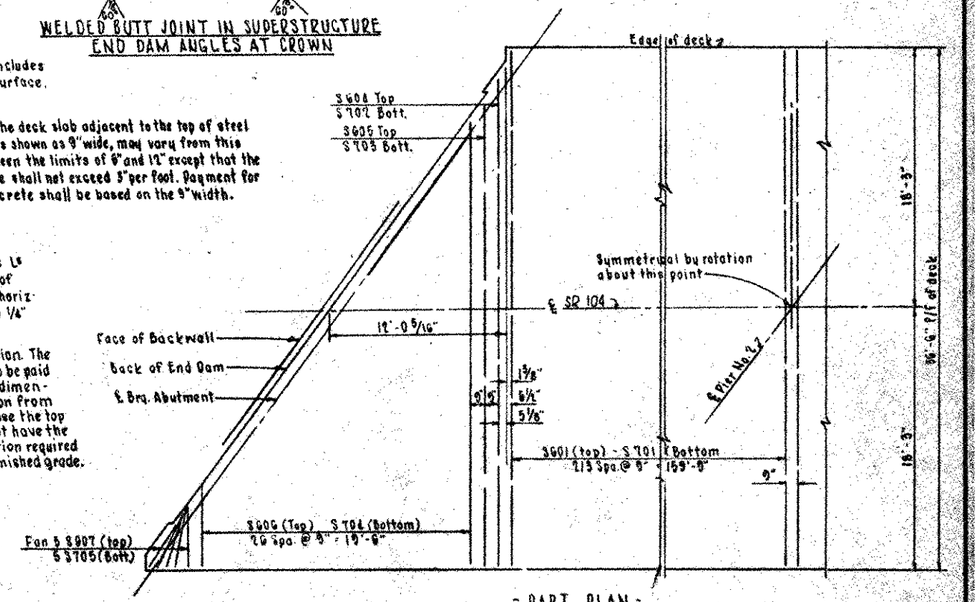
*This is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

Note: 8½" Slab thickness includes 1" for Monolithic Wearing Surface.

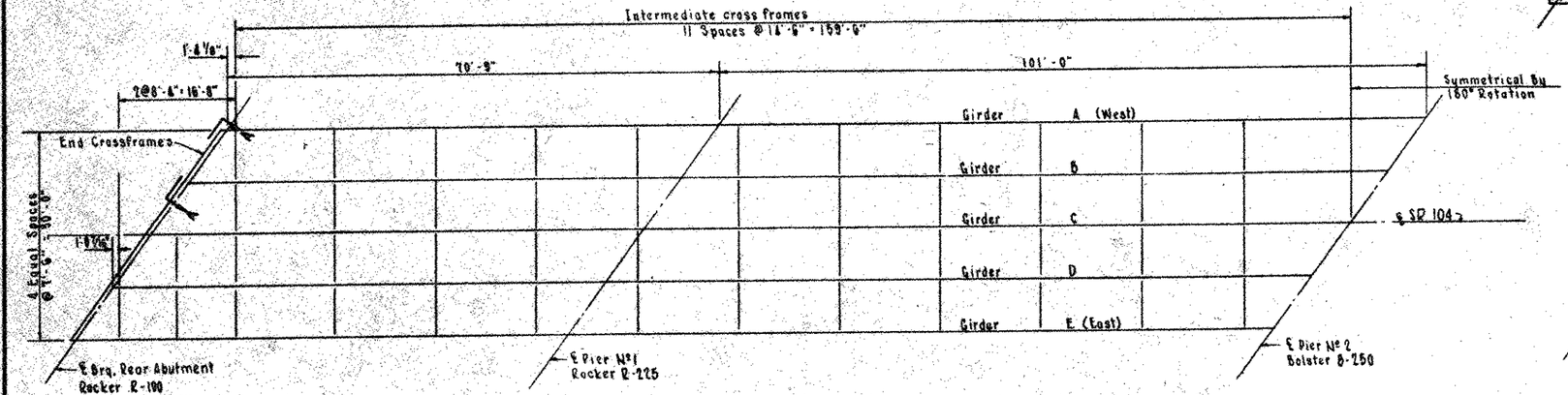
Note:
The haunch in the deck slab adjacent to the top of steel girders which is shown as 9" wide, may vary from this dimension between the limits of 6" and 12" except that the maximum slope shall not exceed 3" per foot. Payment for deck slab concrete shall be based on the 9" width.



WELDED BUTT JOINT IN SUPERSTRUCTURE
END DAM ANGLES AT CROWN

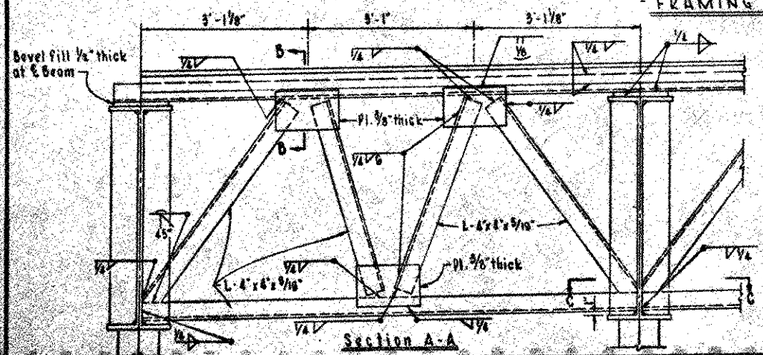


- PART PLAN -
Showing Transverse Reinforcing Layout



- FRAMING PLAN -

Note:
Sheet lead shall conform to the requirements of ASTM Designation B29 without restriction to the Common Desilverized type.



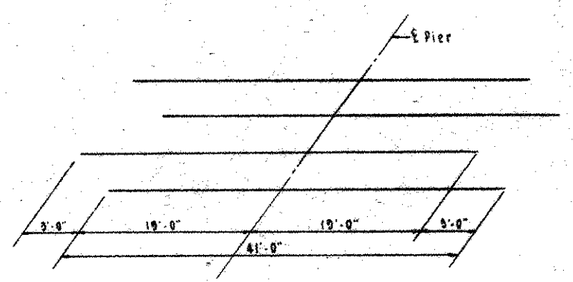
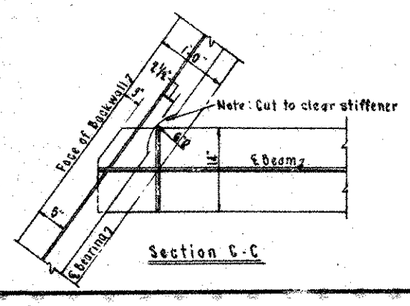


DIAGRAM SHOWING STAGGER
OF S 603 BARS OVER PIERS



Section C-C

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SUPERSTRUCTURE DETAILS
BRIDGE N° FRA-200-08.04
UNDER S.R. 104

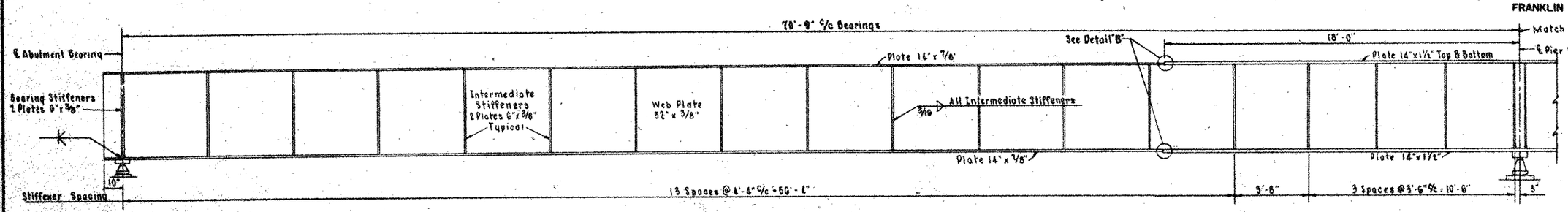
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 420+36.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M M	N.E.C.	N.E.C.	C.E. 10-2-61	C.E.	10-11-61	

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

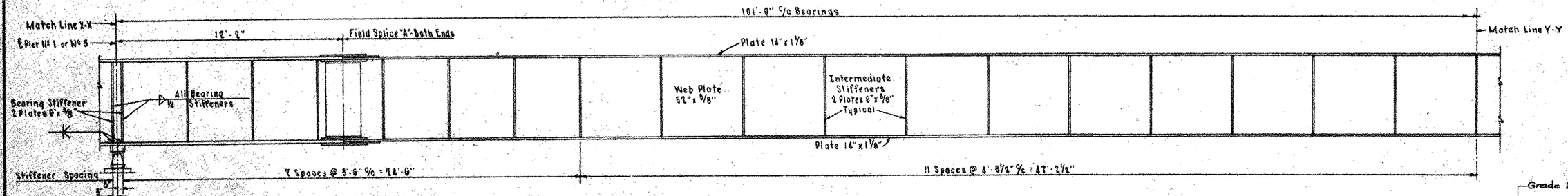
293
333

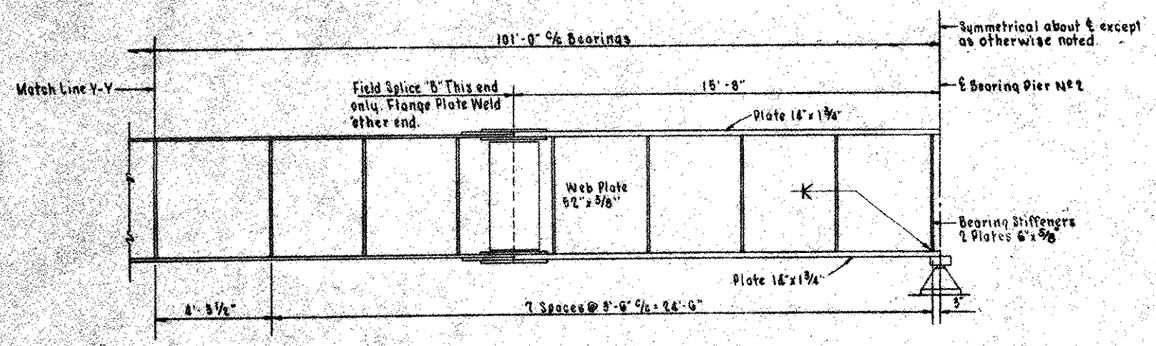
FRANKLIN COUNTY FRA-200-8.04



Girder Elevation

5 Girders Required





Symmetrical about ℄ except as otherwise noted.

Notes:

Welding of structural steel shall be "Class A" except as otherwise shown.

Web to flange welds shall be the continuous automatic submerged arc type.

Flange plate butt welds shall be completed before welding to web plate.

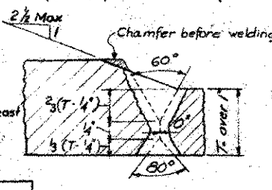
Field Splice is typical for Splice "A" and "B" except as otherwise noted.

All bolts are ⅞" ϕ High-Strength Steel Bolts.

Notes:

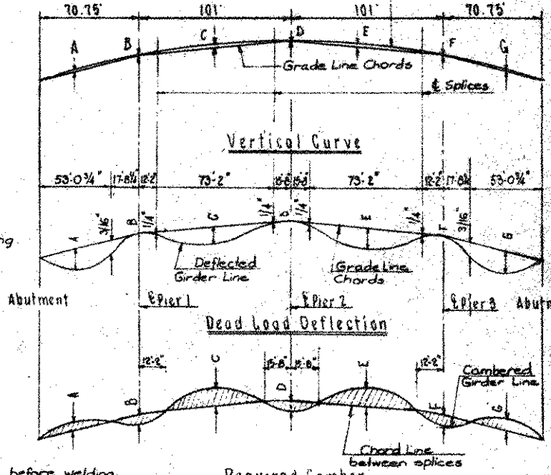
Intermediate stiffeners shall not be welded to the flanges but shall be fitted to the flanges in close enough contact that when shop paint is applied it will fill and close the openings. The Bearing Stiffeners over abutments shall be grooved and fully butt welded to the lower flange and fitted in close contact, without welding, at the upper flange.

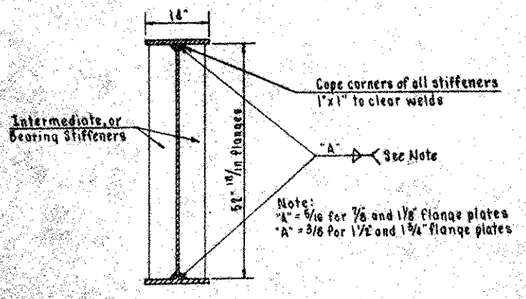
Shop Splices: If additional shop splices are necessary, their location and detail shall be submitted to the Director for approval prior to ordering of material.



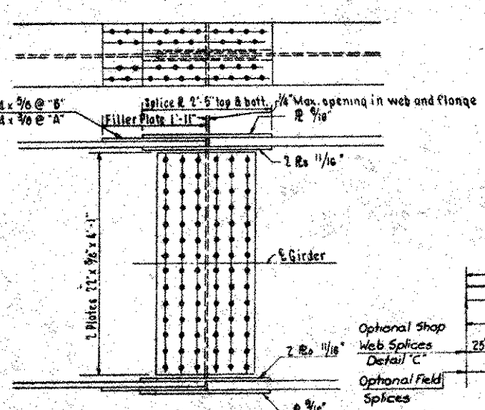
Weld after placing at least one pass on other side.

Weld Detail "A"





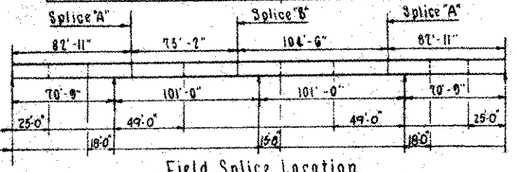
Typical Section



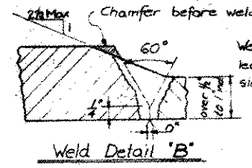
Field Splice Detail

~DEFLECTION AND CAMBER~

Location	A	B	C	D	E	F	G
Deflection due to weight of steel	1/16"	0.	1/16"	0	1/16"	0	1/16"
Deflection due to remaining dead load	3/16"	0	7/16"	0	7/16"	0	3/16"
Convexity required for vertical curve	¼"	⅛"	5/16"	3/16"	5/16"	⅛"	¼"
Sum of deflections and convexity	½"	⅛"	13/16"	¼"	13/16"	⅛"	½"
Required Camber	0	0	⅞"	0	⅞"	0	0



Field Splice Location



Weld Detail "B"

Weld Detail "C"

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SUPERSTRUCTURE DETAILS BRIDGE № FRA-200-0894 UNDER S.R. 104

FRANKLIN COUNTY COLUMBUS OUTERBELT STA. 420+36.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	N.E.C.	E	E	E		

7

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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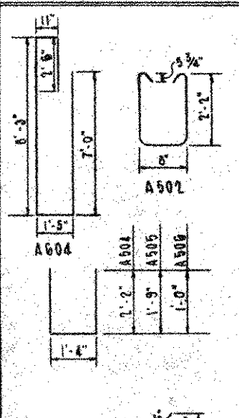
FRANKLIN COUNTY FRA-200-8.04

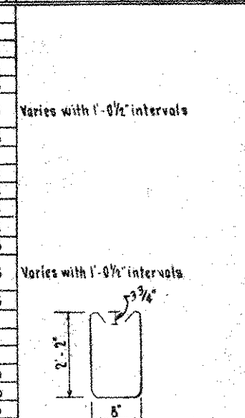
REINFORCING STEEL LIST

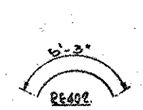
Mark	N°	Length	Weight	Shp.
Abutments				
A501	34	11'-6"	587	S
A502	56	9'-0"	757	B
A503	22	11'-9"	388	S
A504	82	20'-1"	2474	B
A505	8	25'-7"	213	S
A507	64	6'-0"	401	B
A508	8	25'-10"	216	S
A509	56	5'-8"	331	B
A510	40	4'-10"	202	B
A511	28	3'-4"	97	B
A512	10	3'-9"	37	S
A513	4	27'-9"	116	S
A514	2	26'-6"	55	S
A515	2	23'-0"	48	S
A516	2	19'-8"	41	S
A517	4	24'-8"	109	S
A518	2	23'-8"	49	S
A519	2	19'-11"	42	S
A520	2	16'-8"	35	S
A521	4	6'-5"	26	S
A522	36	11'-5"	422	S
A523	4	11'-5"	42	S
A524	8	10'-1"	82	S
A525	10	21'-5"	222	B
A526	10	16'-6"	172	S
A527	40	2'-3"	94	S
A528	8	11'-5"	95	B
A529	24	4'-9"	113	B
A534	4	6'-10"	28	B
A535	4	6'-8"	28	B
A536	4	7'-8"	32	B
A537	4	8'-10"	37	B
A538	4	21'-9"	91	S
A539	16	3'-8"	69	S
A540	8	19'-10"	165	S
A541	8	20'-1"	166	S
A542	10	4'-4"	45	S
A543	4	22'-10"	95	S
A544	2	21'-0"	44	S
A545	2	18'-0"	38	S
A546	2	14'-10"	31	S
A547	4	18'-0"	75	S
A548	2	16'-2"	34	S
A549	2	13'-2"	27	S
A550	2	10'-0"	21	S
A551	6	6'-6"	41	S
A552	6	10'-5"	65	S
A553	26	11'-6"	312	S
A554	10	10'-0"	104	S
A555	10	16'-4"	170	B
A556	4	17'-11"	75	S
A557	2	5'-6"	11	S
A558	10	7'-0"	73	S
A559	10	5'-0"	52	S
A560	16	24'-1"	402	S
A561	86	16'-11"	1317	B
A562	40	22'-11"	956	S
A563	16	22'-11"	382	S
A564	124	5'-11"	756	B
A565	56	22'-0"	1205	S

Mark	N°	Length	Weight	Shp.
Superstructure				
Slab				
S701	428	36'-7"	31,640	S
S702	2	34'-7"	141	S
S703	2	33'-6"	137	S
S704	2 Sets of 27 Bars	From 32'-1" to 5'-0"	2051	S
S705	10	5'-0"	102	S
S601	428	36'-7"	23,250	S
S602	540	40'-9"	33,190	S
S603	78	41'-0"	4805	S
S604	2	34'-7"	104	S
S605	2	33'-6"	101	S
S606	2 Sets of 27 Bars	From 32'-1" to 5'-0"	1507	S
S607	10	5'-0"	75	S
Safety Curb				
S501	482	8'-0"	2'.92	B
S401	692	9'-11"	1811	B
S402	692	5'-0"	2511	B
Railing				
R501	152	17'-5"	*	S
R502	16	4'-8"	*	S
Piers				
P1001	82	24'-3"	4383	B
P1002	96	17'-9"	7390	S
P1003	96	6'-3"	2580	B
P901	18	40'-3"	2460	S
P801	12	10'-0"	320	B
P802	264	7'-8"	5287	S
P501	6	37'-9"	236	S
P502	180	7'-0"	1312	B

Mark	N°	Length	Weight	Shp.
Replacement Bars				
RE1001	2	7'-5"	-	S
RE901	1	6'-10"	-	S
RE801	1	9'-6"	-	S
RE701	4	6'-7"	-	S
RE601	4	5'-11"	-	S
RE501	1	5'-7"	-	S
RE401	1	5'-3"	-	S
RE402	1	5'-3"	-	B







SPIRAL REINFORCING BARS

Mark	N°	Core Diam. ℄ Spiral	Length	Pitch	No. of Turns	Weight
SP801	12	51"	15'-1"	5"	64	4797

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. For example, P901 is a N° 9 size bar and P1001 is a N° 10 size bar.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. S-8.02 need not be furnished and replacement bars will not be required.

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 deformations but shall in other respects conform to Item S-4. 1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.66 lb. per lin. ft. of spacer, 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 0.66 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

* Horizontal parapet reinforcing. These bars are included with the railing for payment.

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REINFORCING STEEL LIST
BRIDGE N° FRA-200-0804
UNDER S.R. 104
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 420+56.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	N.E.C.	N.E.C.	M.M.	J.E.P.	12-64	12-18-64

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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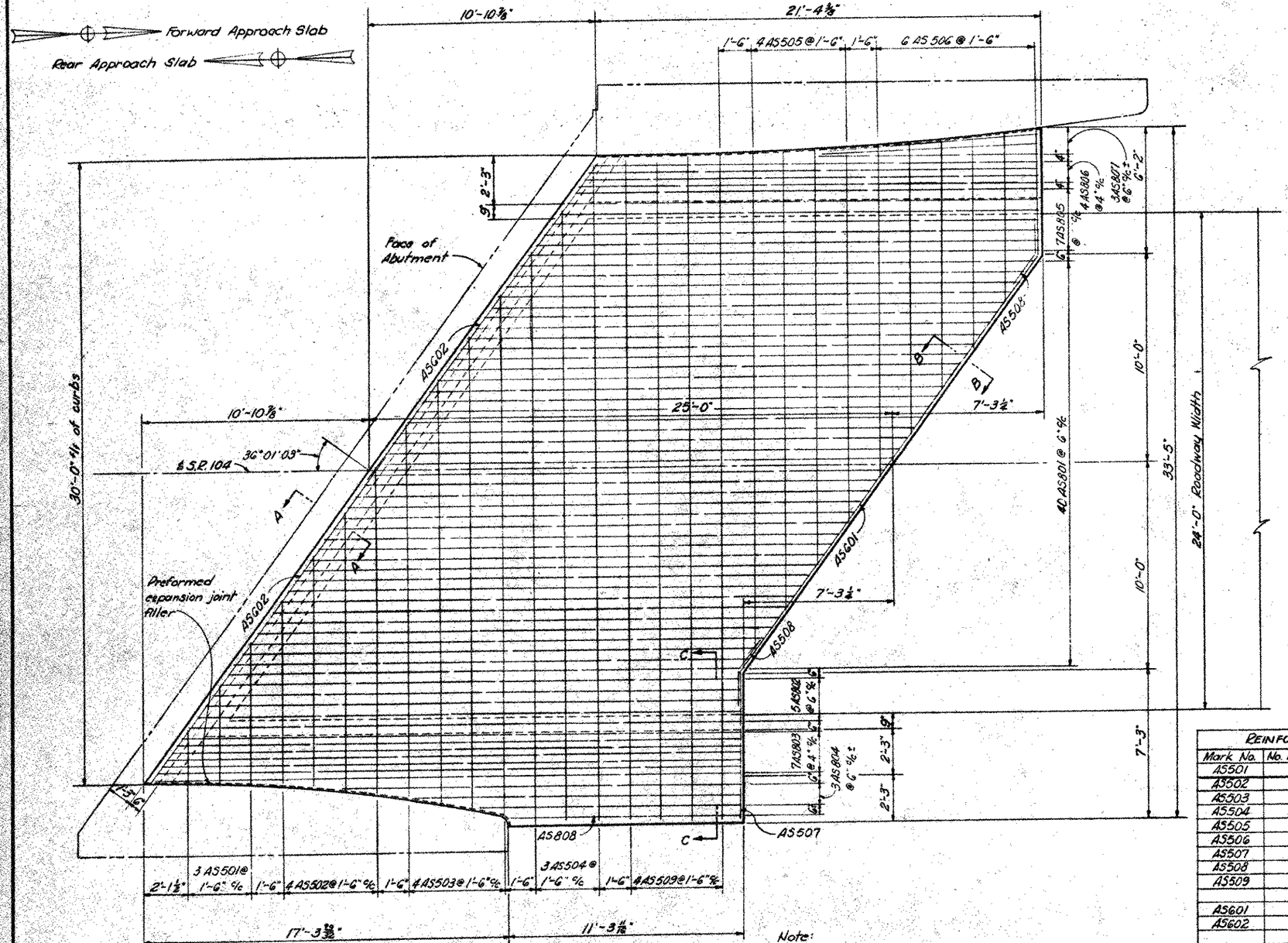
333

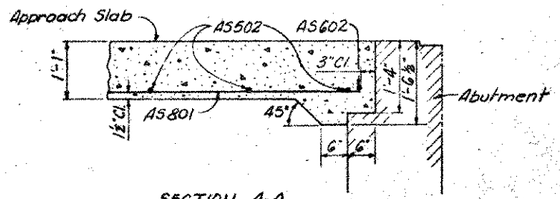


APPROACH SLAB

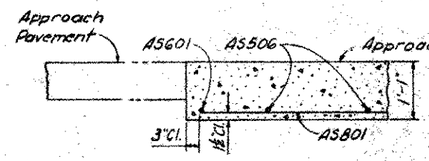
PLAN

Note:
Preformed expansion joint filler shall be included in the price bid for Item I-7 Reinforced Concrete Approach Slab.

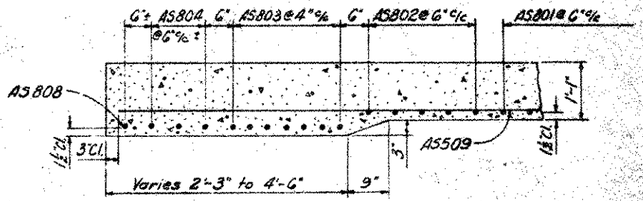
Note:
Rear and Forward Approach Slab similar except for Elevations.
For Elevations See Sheet No. 198.
For Abutment and Wingwall Details See Sheet No. 289.
For Roadway Details See Sheet No. 10



SECTION A-A



SECTION B-B



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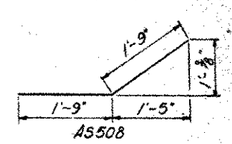

REINFORCING BAR SCHEDULE

Mark No.	No. Req'd.	Length	Weight	Shape
AS501	3	Varies 2'-3" to 6'-3" Increments 6"	14	St.
AS502	4	Varies 3'-11" to 19'-8" Increments 6"	51	St.
AS503	4	Varies 19'-11" to 24'-11" Increments 6"	90	St.
AS504	3	Varies 2'-3⅜" to 31'-7⅛" Increments 2'-1"	92	St.
AS505	4	Varies 11" to 25'-11" Increments 2'-6"	87	St.
AS506	6	Varies 3'-11" to 13'-8⅝" Increments 1'-11⅞"	68	St.
AS507	1	7'-0"	7	St.
AS508	2	3'-6"	7	Bent
AS509	4	31'-9"	137	St.
AS601	1	24'-6"	37	St.
AS602	2	19'-3"	58	St.
AS801	40	24'-6"	2016	St.
AS802	5	Varies 24'-3" to 25'-3" Increments 0'-4½"	341	St.
AS803	7	Varies 26'-1⅝" to 29'-1⅝" Increments 0'-4½"	511	St.
AS804	3	Varies 12'-6" to 18'-6" Increments 3'-0"	125	St.
AS805	7	Varies 25'-8⅛" to 26'-8⅛" Increments 0'-4½"	433	St.
AS806	4	Varies 21'-1" to 31'-10" Increments 2'-3"	229	St.
AS807	3	Varies 10'-0" to 10'-6" Increments 6"	82	St.
AS808	1	11'-0"	29	St.
		Total Weight = 5014 Lbs		

Quantity for one Approach Slab

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APPROACH SLAB
BRIDGE No. FRA-200-0894
UNDER S.R. 104

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 420+36.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
P.B.C.	P.B.C.	V.L.F.	M.M.	M.M.	7-62	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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FRANKLIN COUNTY FRA-200-8.04

B.M. "1-L.O.B. Sta. 419+37±/187'± Lt. conc. R/w mon. ℄ S.P. 104 Sta. 52+09.88 30.20' Rt. Elev. 710.444

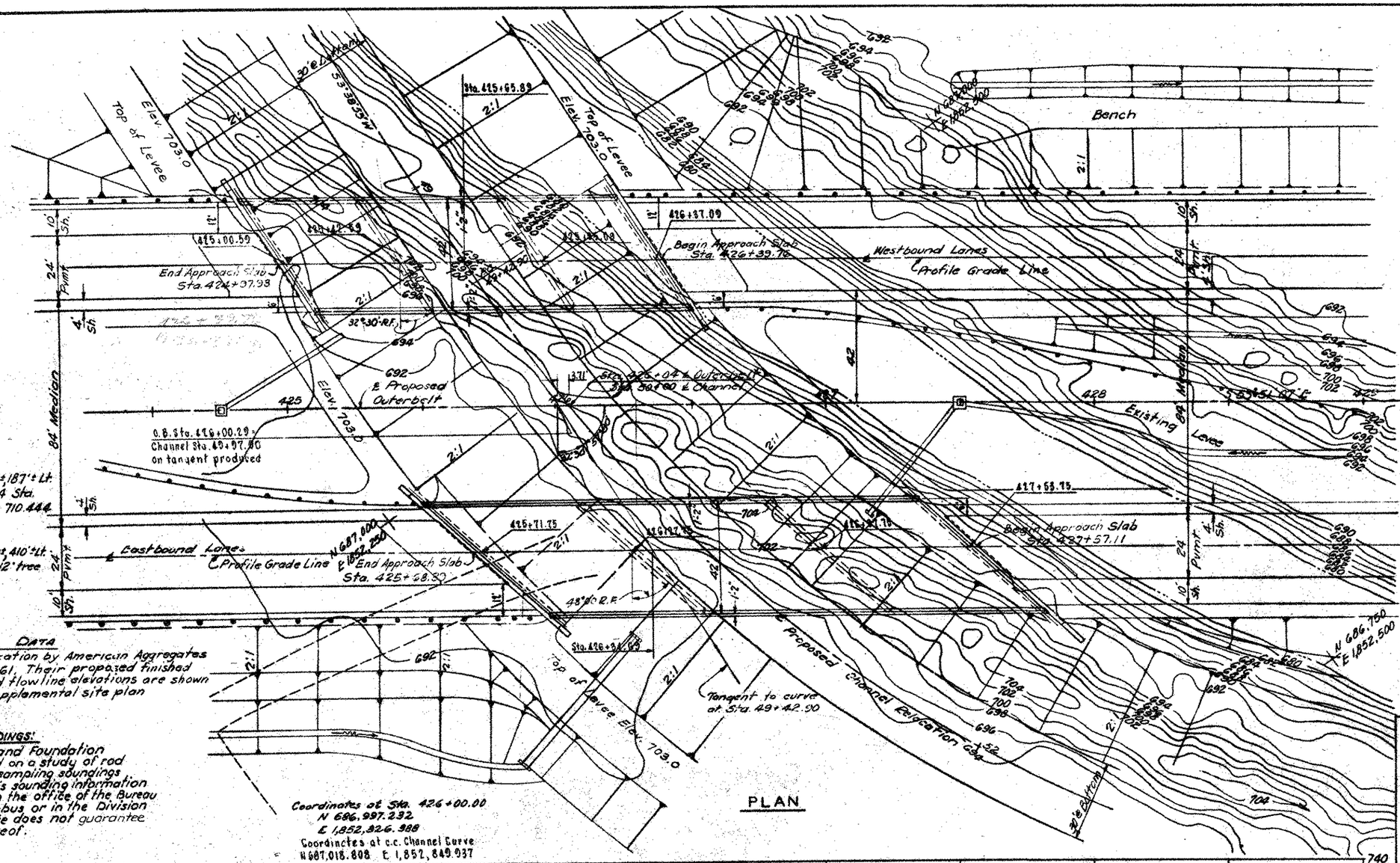
B.M. "2-L.O.B. Sta. 432+89±/410'± Lt. R.R. spike in S. side of 12" tree Elev. 692.793

CHANNEL DATA

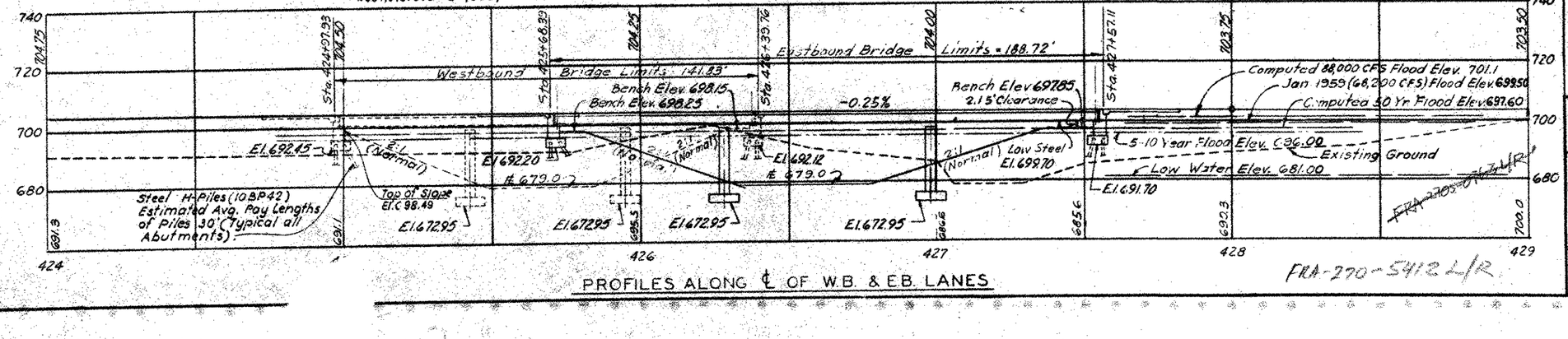
Scioto Big Run Relocation by American Aggregates Corp. started in 1961. Their proposed finished sections, levee and flowline elevations are shown above and/or on supplemental site plan

FOUNDATION SOUNDINGS:

Foundation Design and Foundation Quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State does not guarantee the accuracy thereof.



PLAN



PROFILES ALONG ℄ OF W.B. & E.B. LANES

I Drainage Area and Characteristics

a. 22.7 Sq. Miles

b. 25% permanent pasture, 70% rotation crops, less than 5% urban and less than 5% wood lots.

II Flow Record

a. Scioto Big Run Discharge Record: Gage located on bridge on U.S. 62 at Briggsdale, Franklin County, 2 ¾ Mi. northeast of Grove City, approx. 4 Mi. above Columbus Outerbelt bridge crossing. Drainage area of gage: 11 Sq. Mi. Maximum known discharge: Jan. 21, 1959, 2920 cfs (265 cfs/sq.mi.)

b. Free-flow Record at gage: Maximum known: July 20, 1954; 2790 cfs (254 cfs/sq.mi.)

c. Free-flow at Outerbelt: Based on 254 cfs per sq. mi. unaffected by backwater Discharge at Columbus Outerbelt bridge crossing estimated to be 4700 cfs; depth of flow approximately 10.5 feet.

III Proposed Waterway Opening

The effective width of opening provided is based upon: (1) existing characteristics of the Scioto Big Run channel relocation with free-flow as estimated above; (2) future characteristics of channel as proposed by American Aggregates Corp. with free flow; (3) Computed Scioto River flood height for a 50 year flood.

Proposed Waterway Area

Westbound bridge	1250	Sq. Ft.
Eastbound bridge	1250	Sq. Ft.

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete deck and substructure.

SPANS: Lt. 42-52.5-42
Rt. 56-70-56

ROADWAY: 42'-0" f/f of parapets.

LOAD FREQUENCY: CF-2000(57) (Adequate for AASHO alternate loading)

SKEW: Lt. 32°30 R.F.
Rt. 48°00' R.F.

WEARING SURFACE: 1" monolithic concrete.

APPROACH SLABS: AS-1-54 (25' long).

ALIGNMENT: Tangent.

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SITE PLAN
BRIDGE NO. FRA-200-0904 L&R
OVER SCIOTO BIG RUN

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.M.	M.E.C.	N.E.C.	C.E.	R.D.	11-61	

FRA-270-5412 L/R

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

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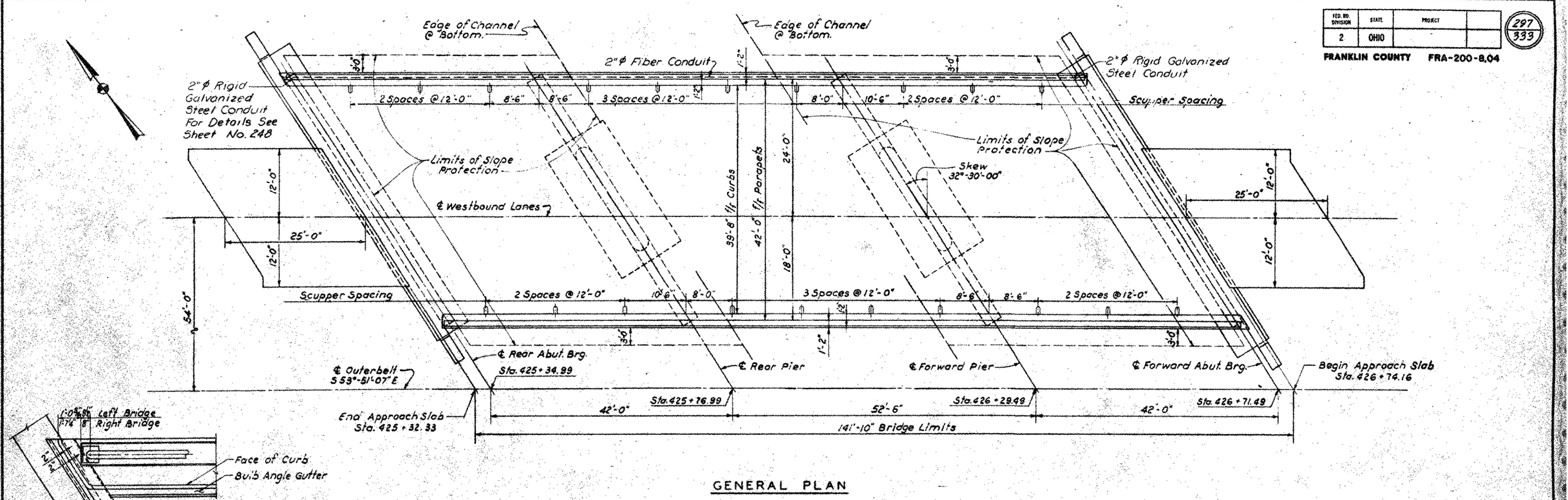
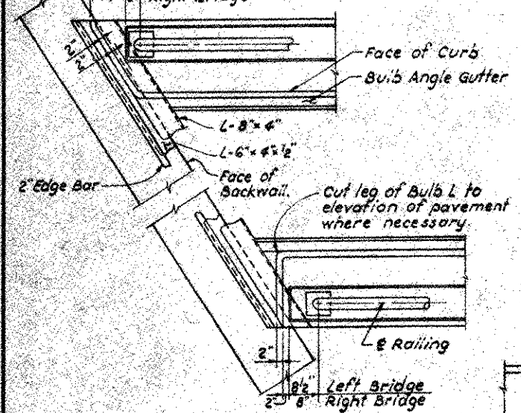
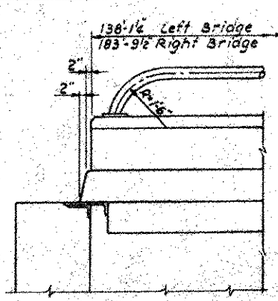


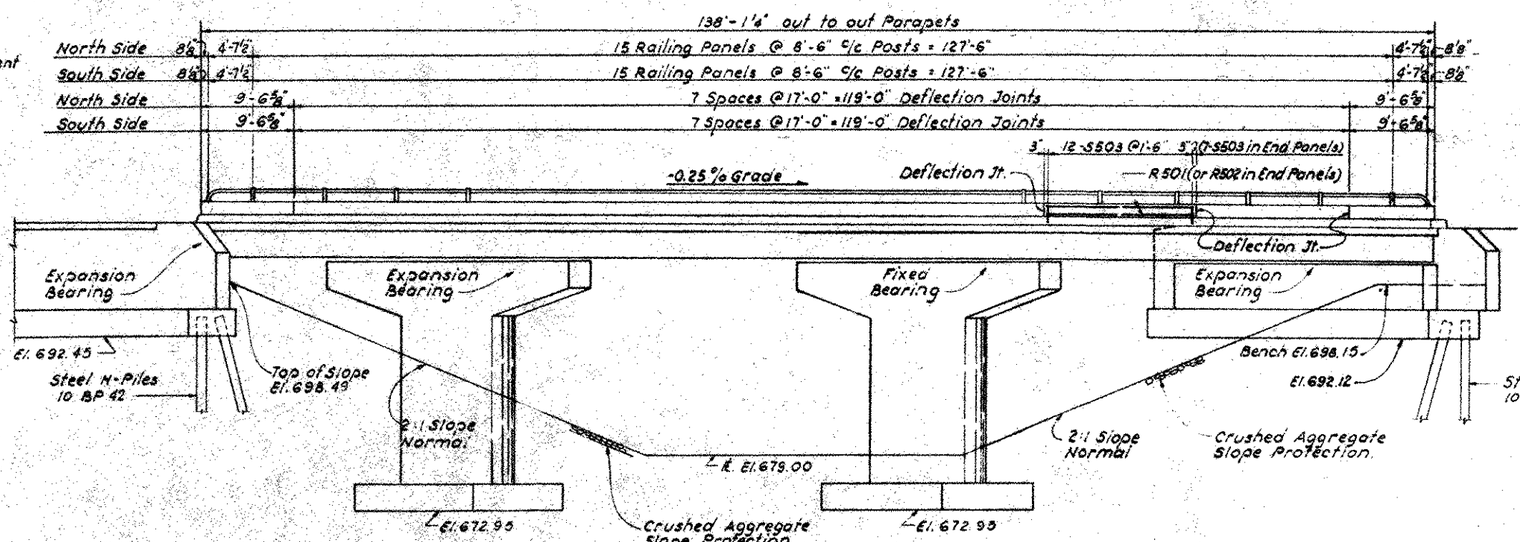
GENERAL PLAN



PART PLAN AT ABUTMENT



ELEVATION



ELEVATION

Note:
Railing Dimensions are measured along Deck Fascia.

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GENERAL PLAN & ELEVATION LEFT BRIDGE

BRIDGE NO. FRA.-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.B.	E.B.	E.B.	C.F.K.	R.D.	11-61	

2

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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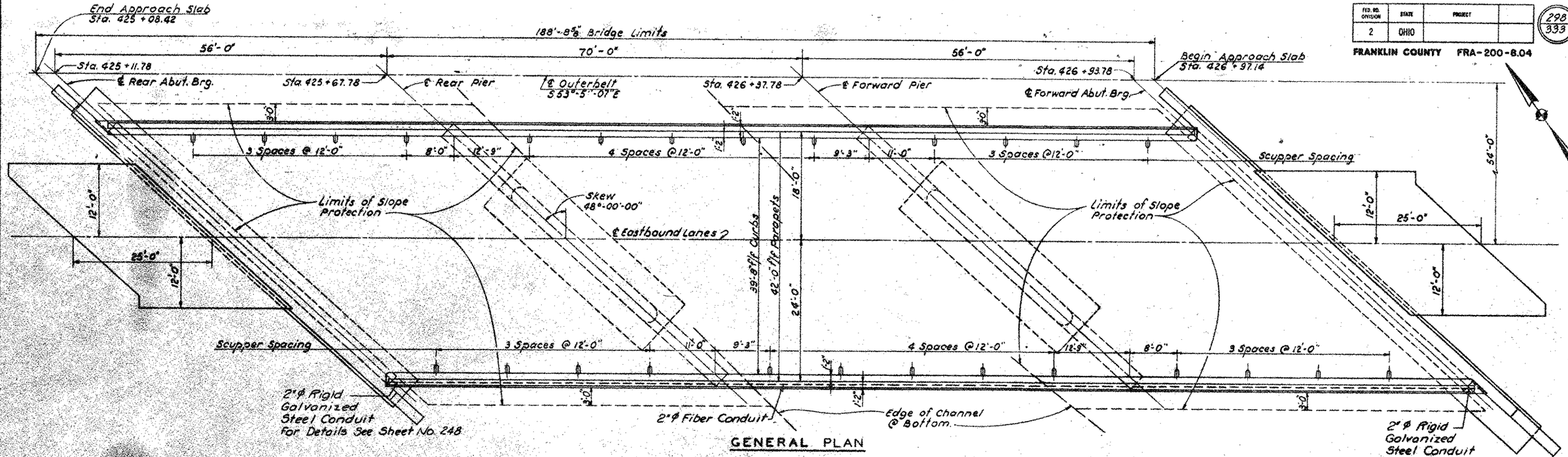
FRANKLIN COUNTY FRA-200-8.04



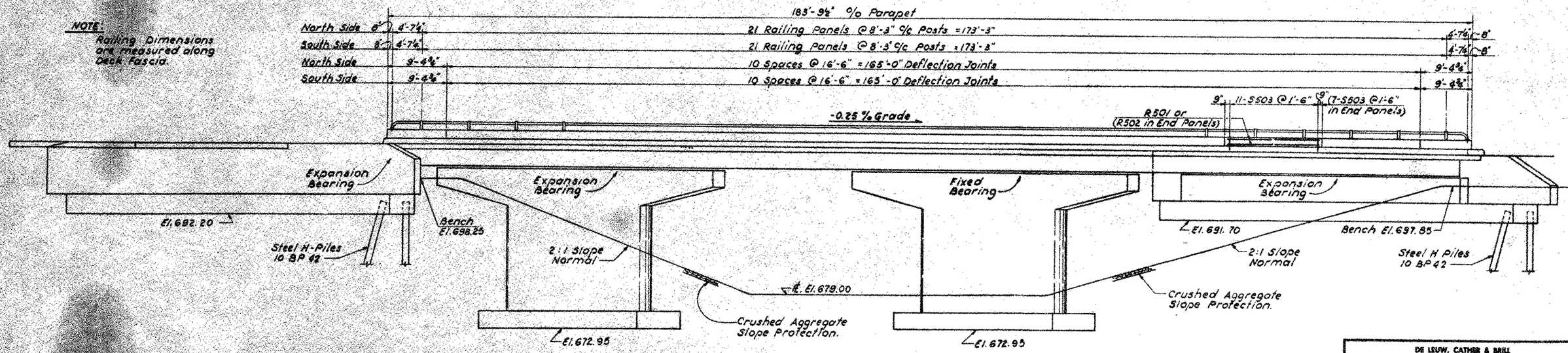
GENERAL PLAN

NOTE:
Railing Dimensions are measured along Deck Fascia.

North Side	8"	4'-7¼"
South Side	8"	4'-7¼"
North Side		9'-4½"
South Side		9'-4½"

183'-9½" ℄ Parapet
21 Railing Panels @ 8'-3" ℄ Posts = 173'-3"
21 Railing Panels @ 8'-3" ℄ Posts = 173'-3"
10 Spaces @ 16'-6" = 165'-0" Deflection Joints
10 Spaces @ 16'-6" = 165'-0" Deflection Joints

-0.25 % Grade



ELEVATION

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GENERAL PLAN & ELEVATION
RIGHT BRIDGE
BRIDGE NO. FRA.-200-0904
OVER SCIOTO BIG RUN

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.B.	E.B.	E.B.	C.F.K.	R.D.	11-61	

3

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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333

FRANKLIN COUNTY FRA-200-8.04

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	LEFT BRIDGE ABUT'S	LEFT BRIDGE PIERS	LEFT BRIDGE SUPERSTR	LEFT BRIDGE GEN'L	RIGHT BRIDGE ABUT'S	RIGHT BRIDGE PIERS	RIGHT BRIDGE SUPERSTR	RIGHT BRIDGE GEN'L
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump				Lump
E-2	1,285	Cu. Yds.	Unclassified Excavation	244	311			333	397		
E-3	18,817	Cu. Yds.	Channel Excavation								
S-1	434	Cu. Yds.	Class "C" Concrete, superstructure.			186				248	
S-1	348	Cu. Yds.	Class "C" Concrete, piers above footings		143				205		
S-1	144	Cu. Yds.	Class "E" Concrete, pier footings		63				81		
S-1	451	Cu. Yds.	Class "E" Concrete, abutments	197				254			
S-4	193,390	Lbs.	Reinforcing steel	11,840	20,870	54,310		15,150	25,210	72,010	
S-7	380,830	Lbs.	Structural steel			142,220				238,610	
S-8	380,830	Lbs.	Field painting of structural steel.			142,220				238,610	
S-14	644	Lin. Ft.	Railing, (aluminum rail and supports, and concrete parapets)			276				368	
S-16	Lump	Sum	First Test Pile								Lump
S-18	1988	Lin. Ft.	Steel Piles (10 BP 42)	856				1132			
S-25			Lighting Quantities (See Note)								
S-28	58	Each	Scuppers			26				32	
S-29	60	Cu. Yds.	Porous backfill	26				34			
S3	30	Lin. Ft.	Waterproofing premolded sealing strip	15				15			
T-10	1439	Sq. Yds.	Crushed aggregate slope protection				614				825
Special	434	Each	water-reducing, set-retarding admixture *			186				248	

(* See Proposal Note)

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-54 revised 7-2-62, AE-1-57 revised 4-2-62 and to CSB-2-56 Sheet Nos. 2 and 3 of 6 revised 2-2-59.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions thereof.

WELDING of structural steel shall be Class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress upgrade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

MACHINE FINISH: The top of the bridge deck slab shall be machine finished.

SHEET LEAD: Sheet lead shall conform to the requirements of A.S.T.M. Designation B29 without restriction to the "Common Desilverized" type.

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than 1/8" are to be spliced by butt welding, the depth of the smaller-depth beam shall be increased by splitting the web longitudinally at a distance of 1'-2" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than 3/8" per foot, after which the split in the web shall be completely welded with full depth penetration and ground flush.

SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per the Plans and Specifications shall be accomplished by blast cleaning or power tool cleaning, except as noted in the Specifications regarding the use of Chromate Primers.

POROUS BACKFILL 2 feet thick, full length of abutment and wings (as per plan) shall extend up to the underside of the approach slab and to the surface of the berm. Excavation therefore, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cu. yds. paid for porous backfill.

EXCAVATION QUANTITY includes the removal of fill material between the surface of the proposed embankment and bottom of the footings.

FOUNDATION BEARING PRESSURE: Pier Footings are designed for a maximum bearing pressure of 3 Tons per sq. ft., actual bearing pressure.

PILES: Abutment piles shall be driven to a bearing capacity of 35 Tons per pile, actual pile load.

FIRST TEST PILE: Payment will be made for only one first test pile. It may be driven for either the Right or Left bridge.

LIGHTING QUANTITIES for this bridge shall be found listed item by item on the General Lighting Summary Sheet No. 247 and shall be bid by items as shown thereon and considered as part of the quantities for this bridge.

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CONSULTING ENGINEERS
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GENERAL NOTES & ESTIMATED QUANTITIES
LEFT & RIGHT BRIDGES
BRIDGE NO. FRA 200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY COLUMBUS OUTERBELT STA. 426+04

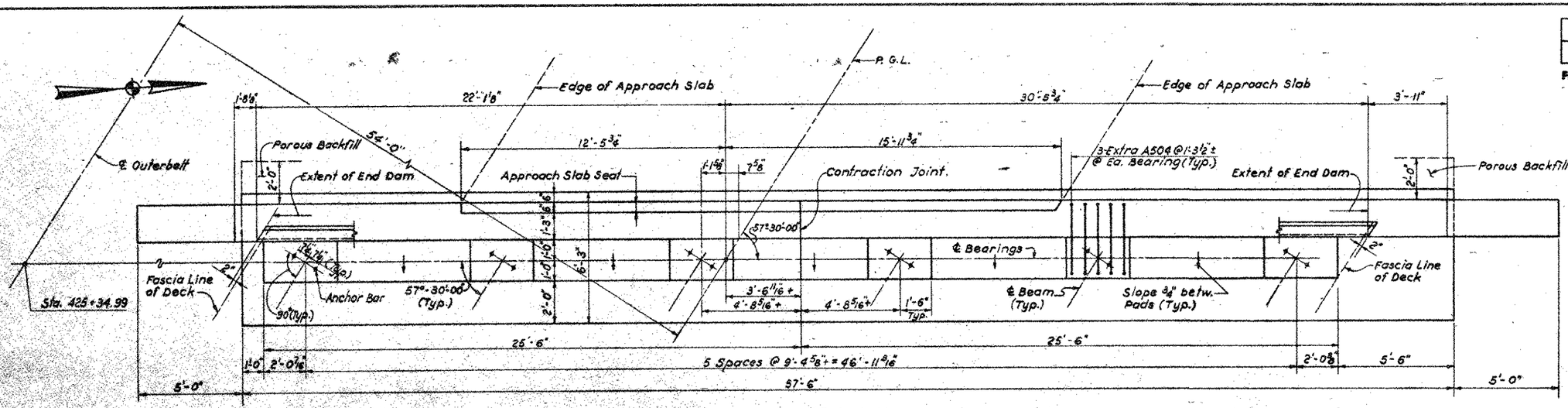
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	L.M.	L.M.	H.B.	R.D.	11-61	

4

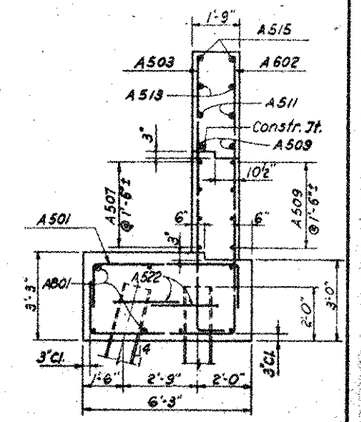
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

300
333

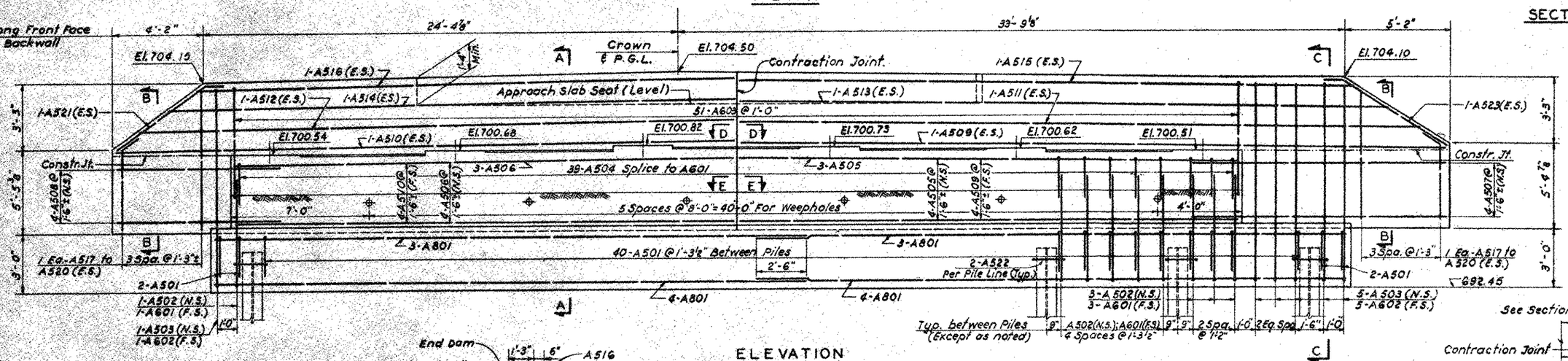
FRANKLIN COUNTY FRA-200-8.04



PLAN



SECTION C-C



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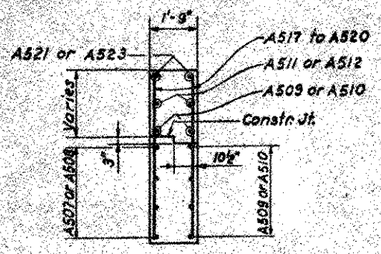
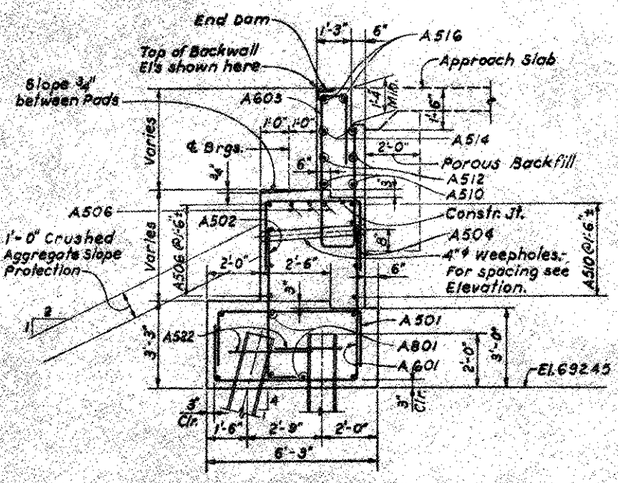
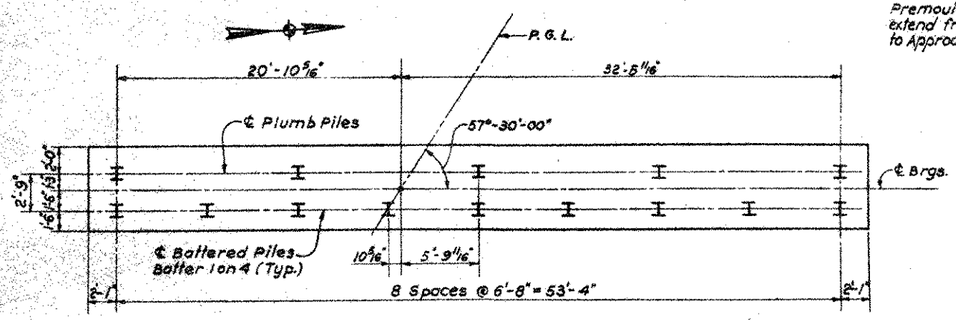


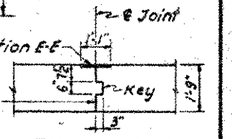
SECTION B-B



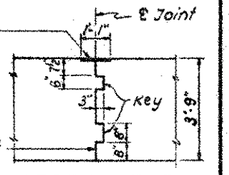
SECTION A-A



PILE PLAN



SECTION D-D



SECTION E-E

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REAR ABUTMENT DETAILS LEFT BRIDGE

BRIDGE NO. FRA.-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY COLUMBUS OUTERBELT
STA. 426+04

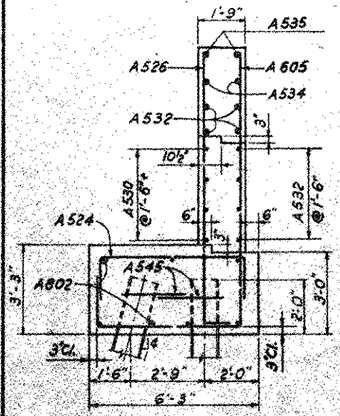
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	E.B.	E.B.	H.B.	R.D.	11-61	

S

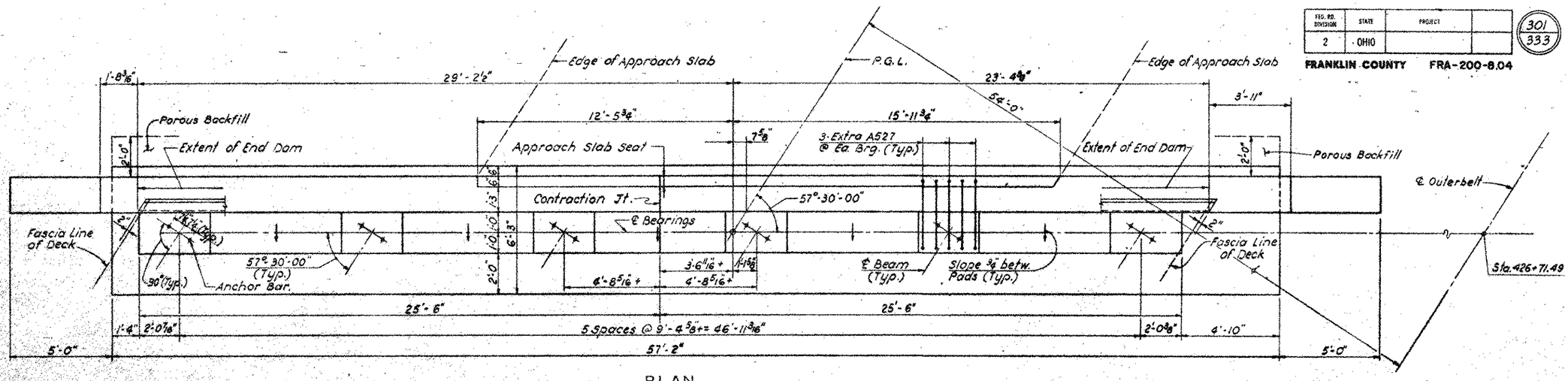
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

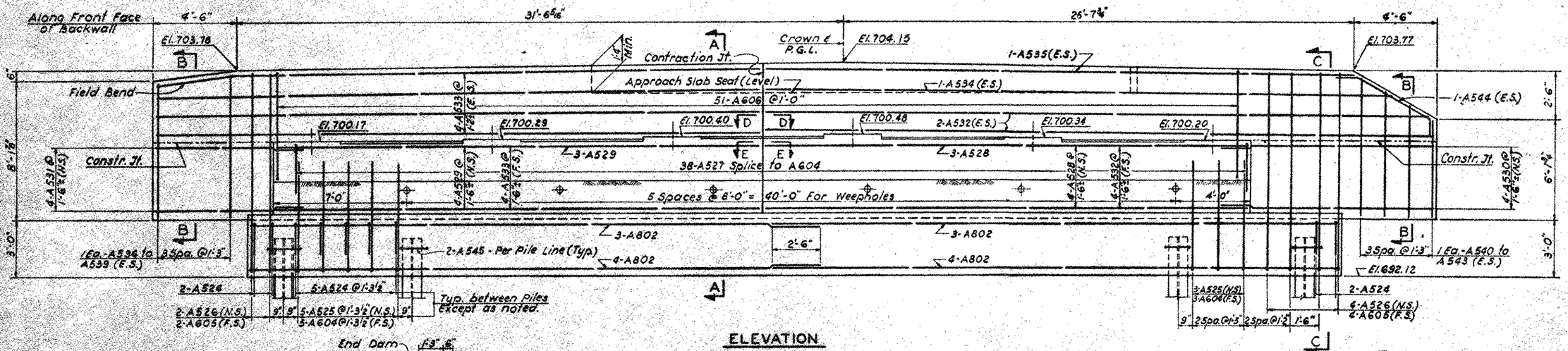
301
333



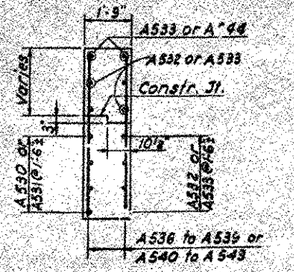
SECTION C-C



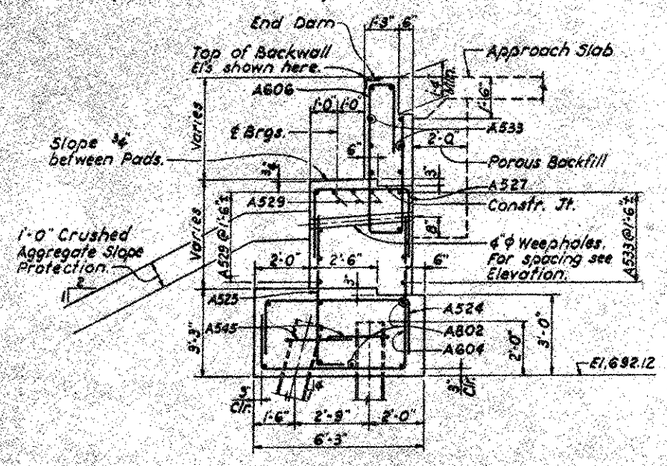
PLAN



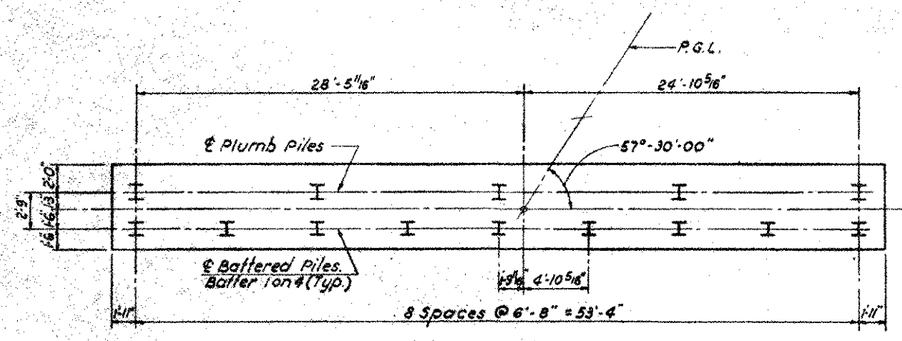
ELEVATION



SECTION B-B



SECTION A-A



PILE PLAN

Note: —
For Sections D-D and E-E see Sheet N° 30

DE LEUW, CATHER & BRILL
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FORWARD ABUTMENT DETAILS LEFT BRIDGE

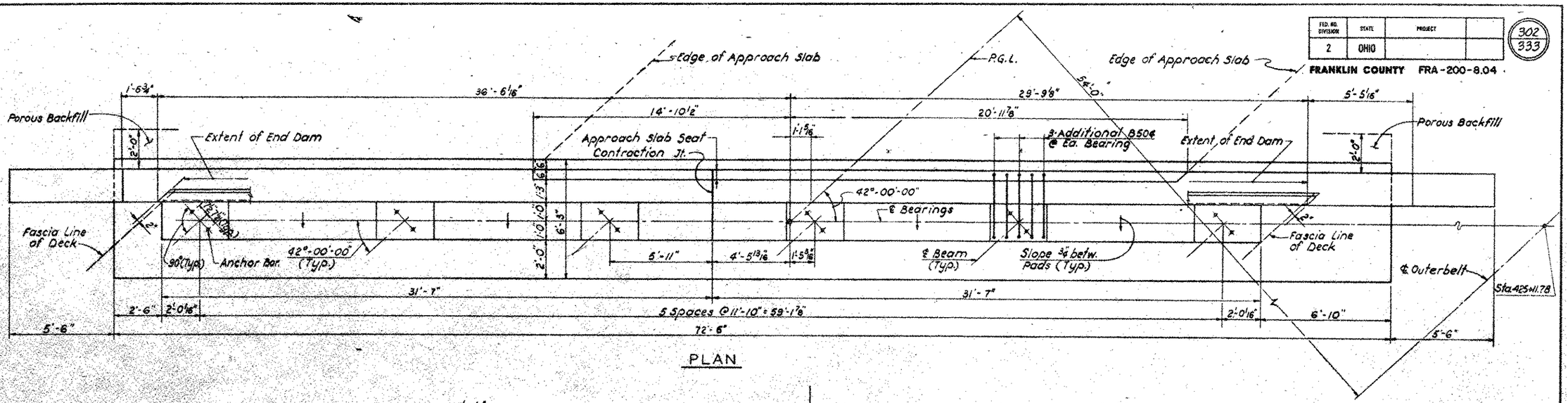
BRIDGE NO. FRA.-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY
COLUMBUS OUTERBELT STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	L.M.	L.M.	H.B.	R.D.	11-61	

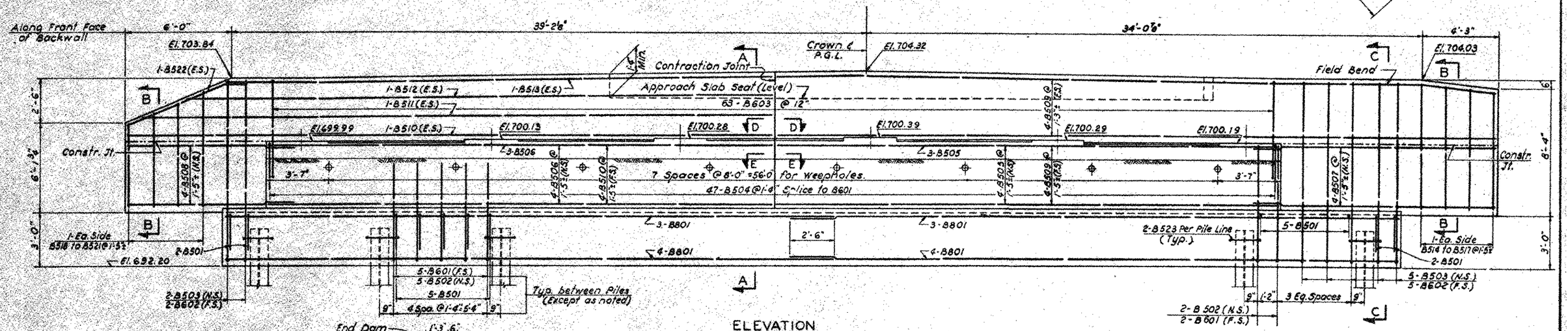
FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

302
333

FRANKLIN COUNTY FRA-200-8.04



PLAN



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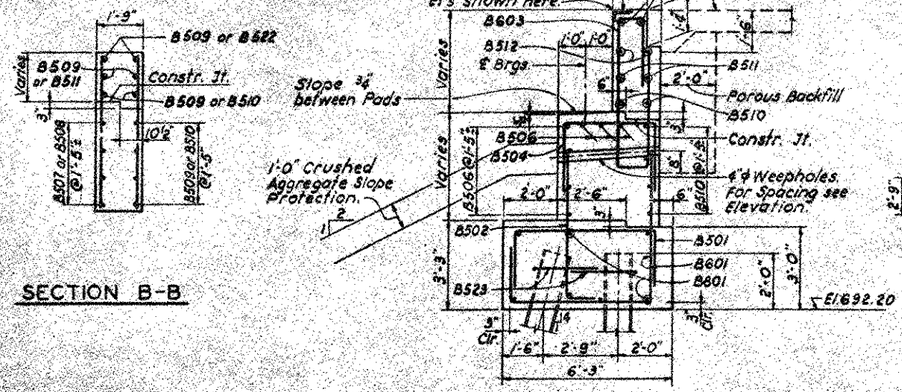
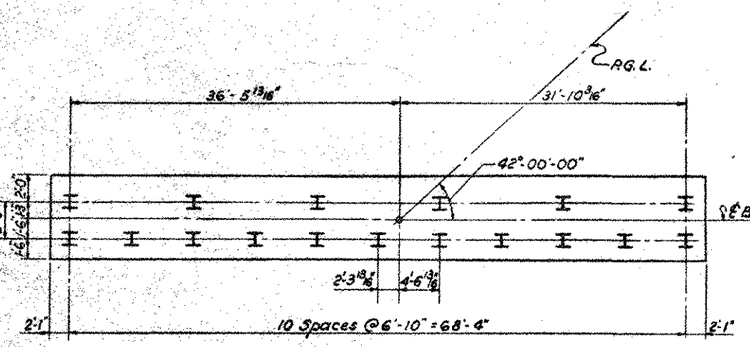


SECTION B-B

SECTION A-A



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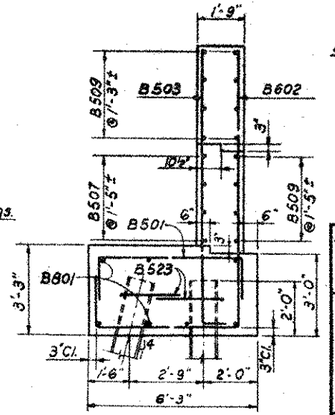

SECTION C-C

Note: For Sections D-D and E-E see Sheet No. 000

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NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

REAR ABUTMENT DETAILS RIGHT BRIDGE

BRIDGE NO. FRA.-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY
COLUMBUS OUTERBELT STA. 426+04

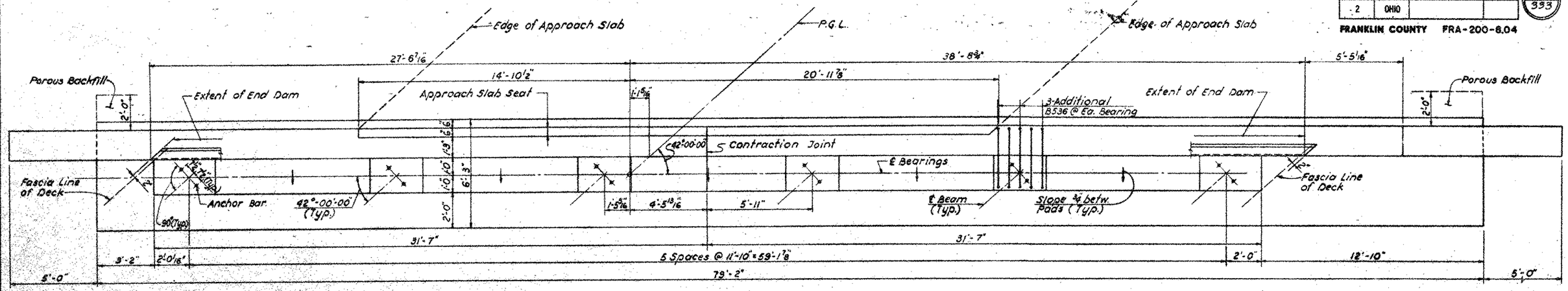
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	L.M.	L.M.	H.B.	R.D.	11-61	

7

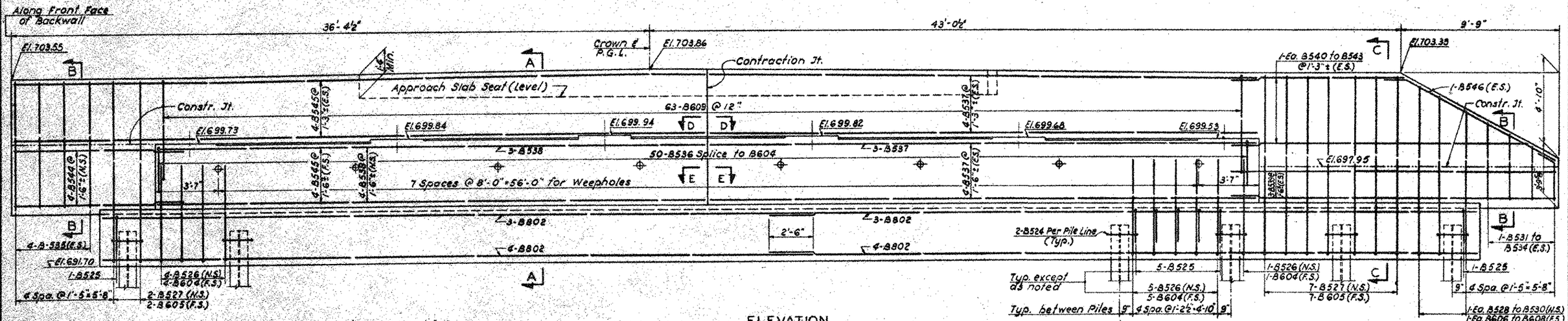
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

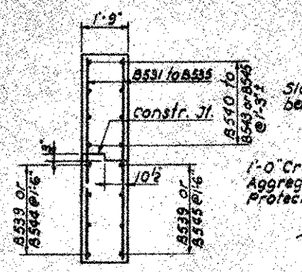
303
393

FRANKLIN COUNTY FRA-200-8.04

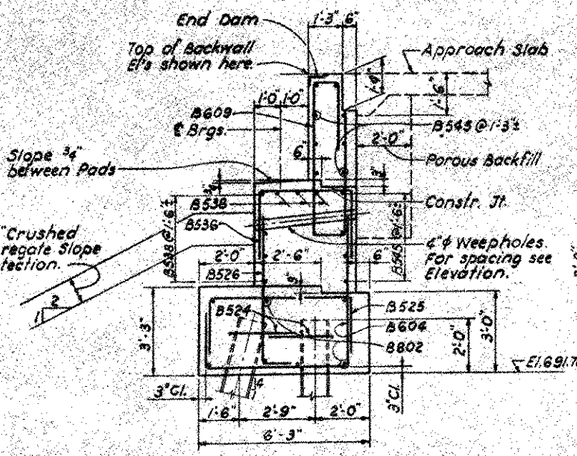


PLAN



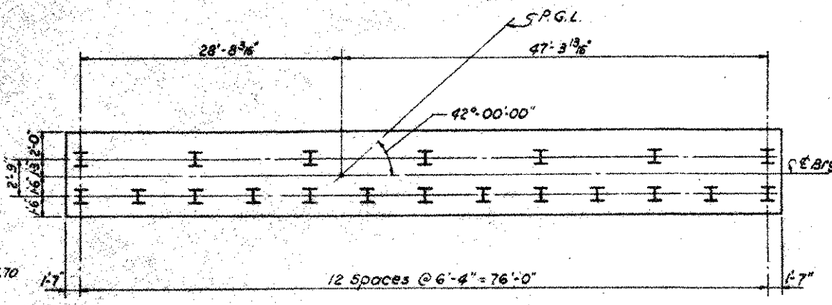


SECTION B-B

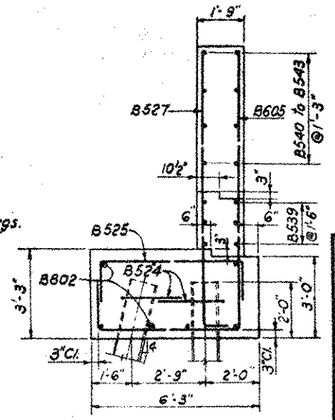


SECTION A-A

ELEVATION



PILE PLAN



SECTION C-C

Note:
For Sections D-D and E-E see Sheet No. 300

DE LEUW, CATHER & BRRL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

FORWARD ABUTMENT DETAILS RIGHT BRIDGE BRIDGE NO. FRA-200-0904 OVER SCIOTO BIG RUN

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04

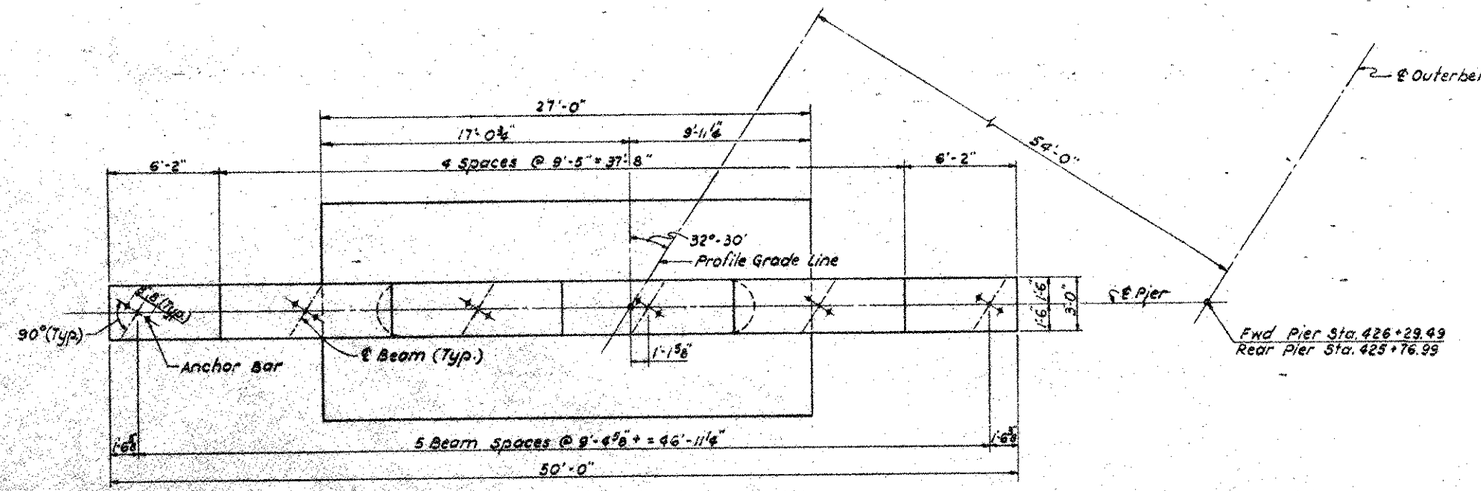
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	L.M.	L.M.	H.B.	R.D.	11-61	

8

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

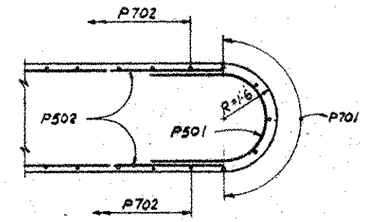
FRANKLIN COUNTY FRA-200-8.04

304
333

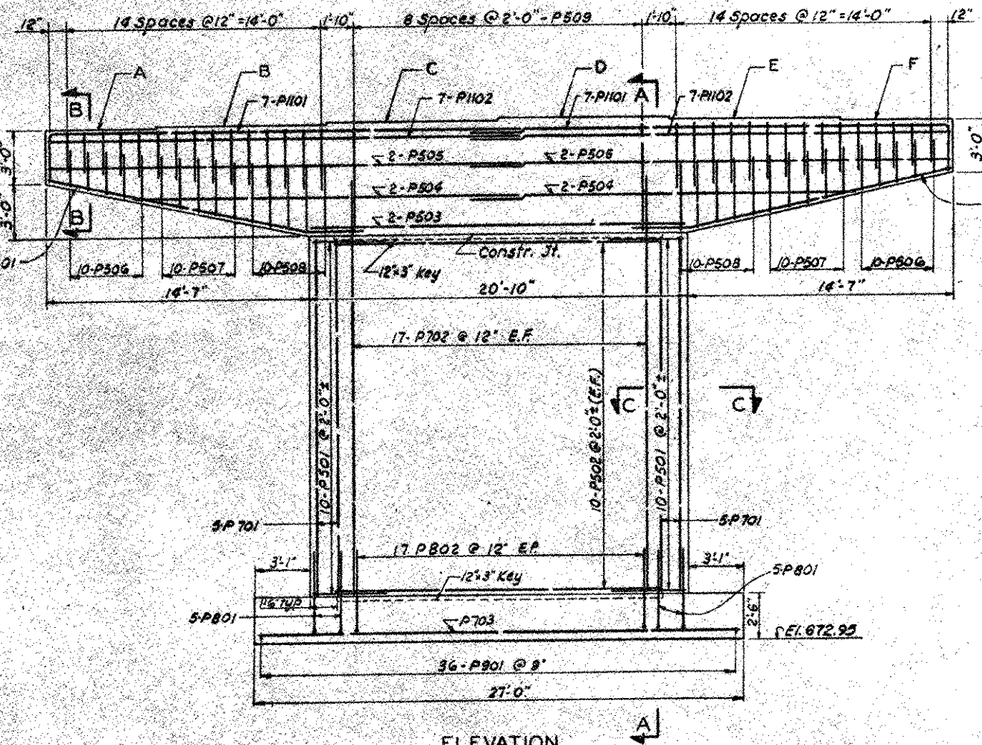


PLAN

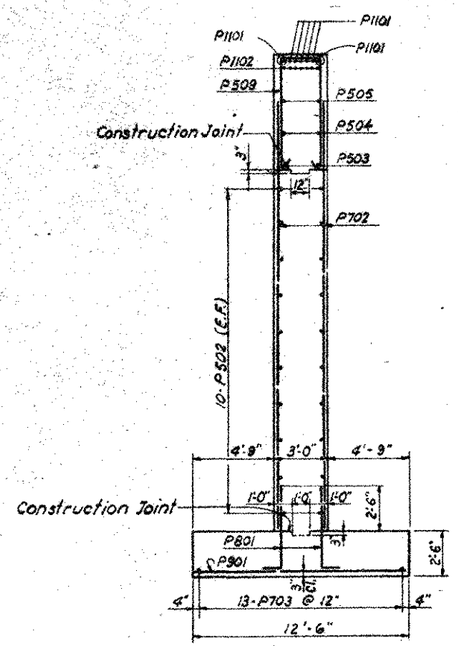
ELEVATION	A	B	C	D	E	F
Forward Pier	700.30	700.41	700.52	700.60	700.47	700.33
Rear Pier	700.35	700.46	700.57	700.65	700.52	700.38



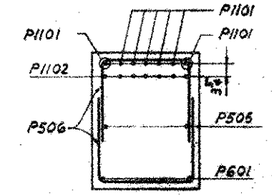
SECTION C-C



ELEVATION



SECTION A-A



SECTION B-B

NOTE:
All reinforcing steel shall be 2" clear from face of concrete except as shown. Special care shall be taken in placing reinforcing in pier cap so that it will not interfere with the drilling of bearing plate anchor bolts.

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PIER DETAILS
LEFT BRIDGE
BRIDGE NO. FRA-200-0904
OVER SCIOTO BIG RUN

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04.

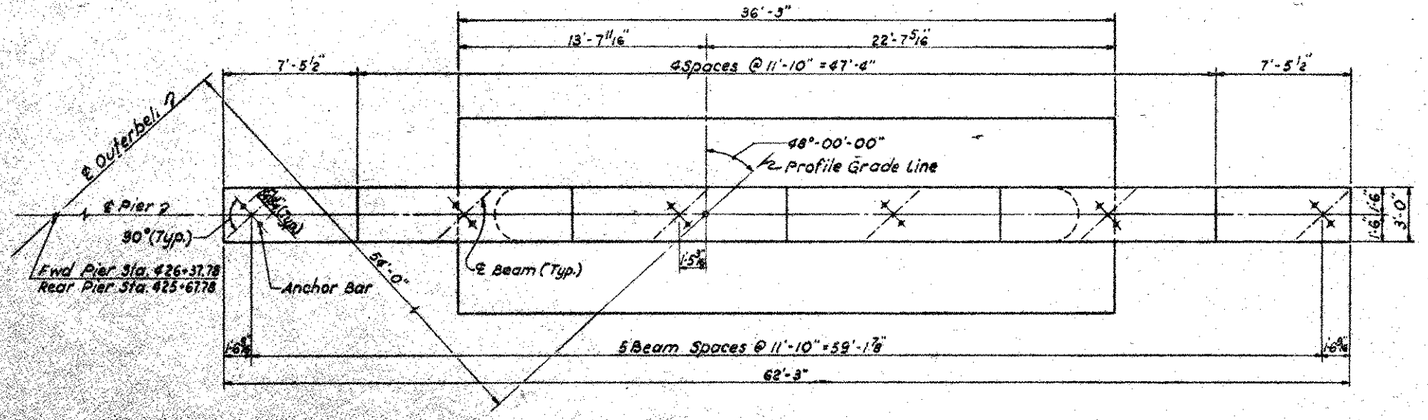
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
O.P.	L.M.	L.M.	C.F.K.	R.D.	11-61	

9

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	–	

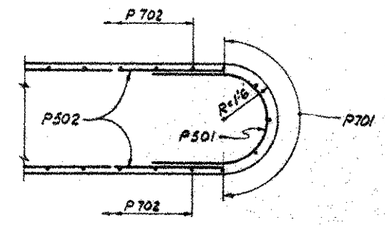
305
333

FRANKLIN COUNTY FRA-200-8.04

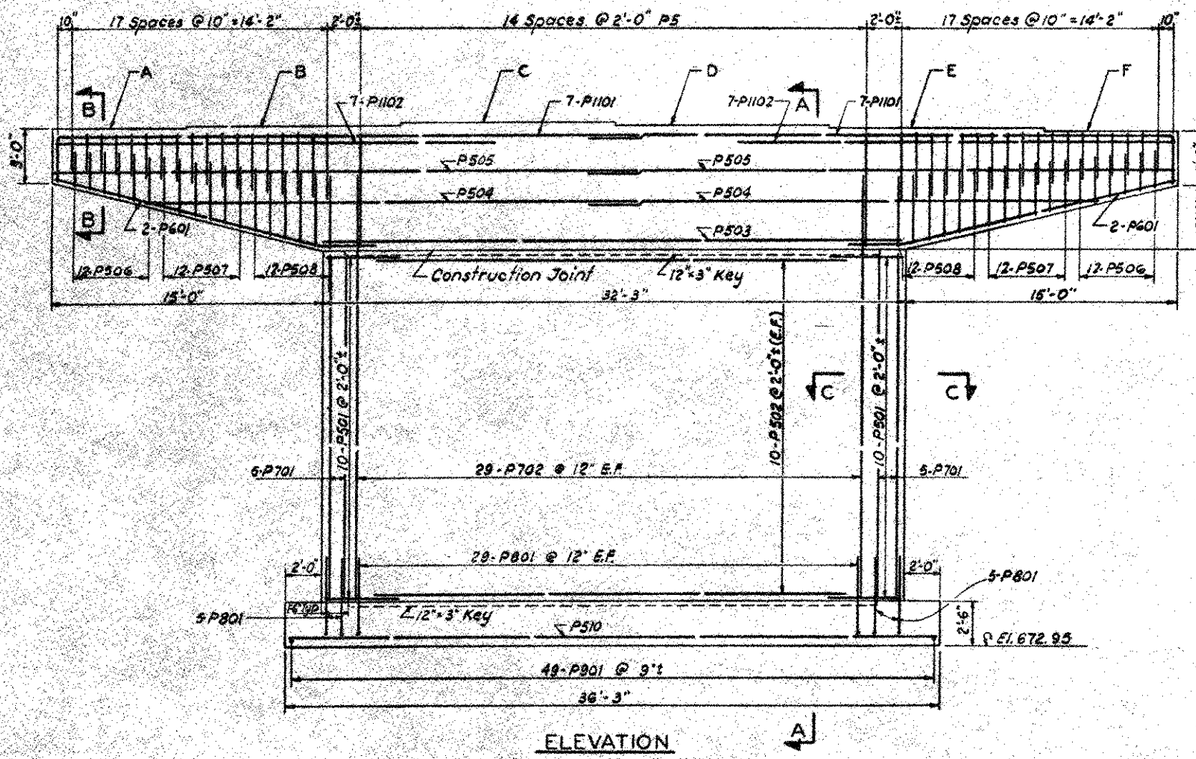


PLAN

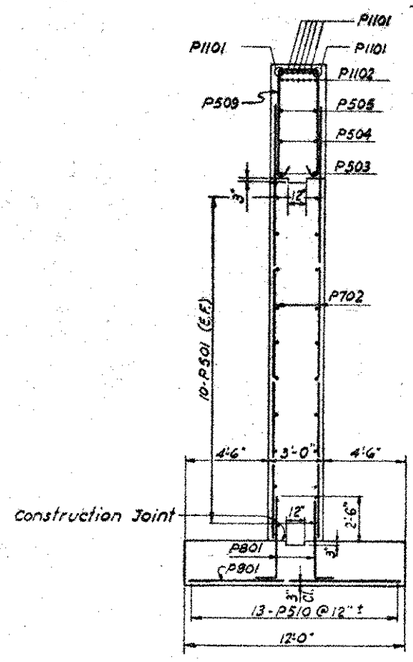
ELEVATION	A	B	C	D	E	F
Forward Pier	699.88	699.98	700.09	699.97	699.82	699.68
Rear Pier	699.97	700.08	700.18	700.06	699.92	699.77



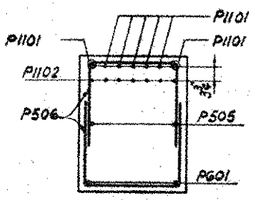
SECTION C-C



ELEVATION



SECTION A-A



SECTION B-B

NOTE:

All reinforcing steel shall be 2" clear from face of concrete except as shown. Special care shall be taken in placing reinforcing in pier cap so that it will not interfere with the drilling of bearing plate anchor bolts.

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
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PIER DETAILS
RIGHT BRIDGE
BRIDGE NO. FRA-200-0904
OVER SCIOTO BIG RUN

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04

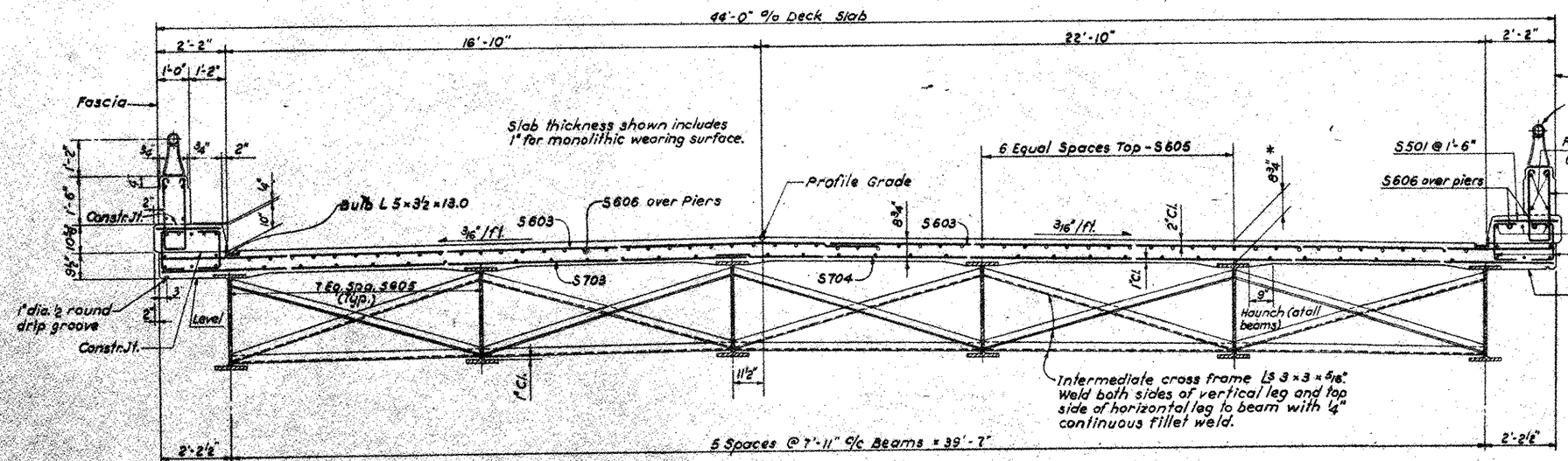
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
O.P.	L.M.	L.M.	C.F.K.	R.D.	11-61	

10

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-200-8.04

308
333



Note: The haunch in the deck slab adjacent to the top of steel beams which is shown as 9" wide, may vary from this dimension between the limits of 6" and 12" except that the maximum slope shall not exceed 3" per ft. Payment for deck slab concrete shall be based on the 9" width.

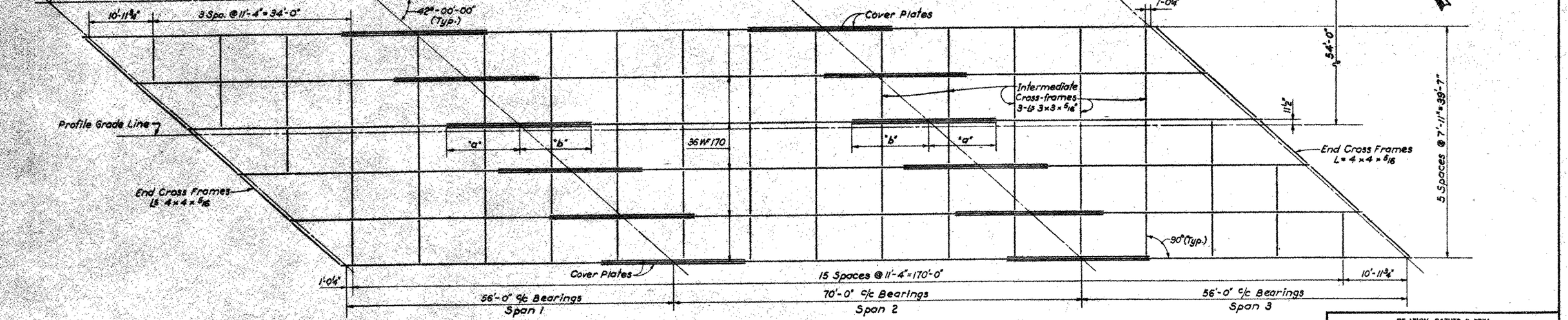
* Nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

BEAM SPLICE WELDING PROCEDURE

1. Raise the abutment ends of the beams 1 3/16".
2. Butt-weld the beam flanges and web, using the following sequence: make two passes on each flange, then two on the web; repeat, using one pass at each location, until welds are completed.
3. Weld the bottom and top moment plates.
4. Lower the beam ends to final position.
5. Butt welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. Finishing flush by grinding is not required.

TRANSVERSE SECTION

Looking East



STEEL FRAMING PLAN

DE LEUW, CATHER & BRILL
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SUPERSTRUCTURE DETAILS RIGHT BRIDGE BRIDGE NO. FRA-200-0904 OVER SCIOTO BIG RUN

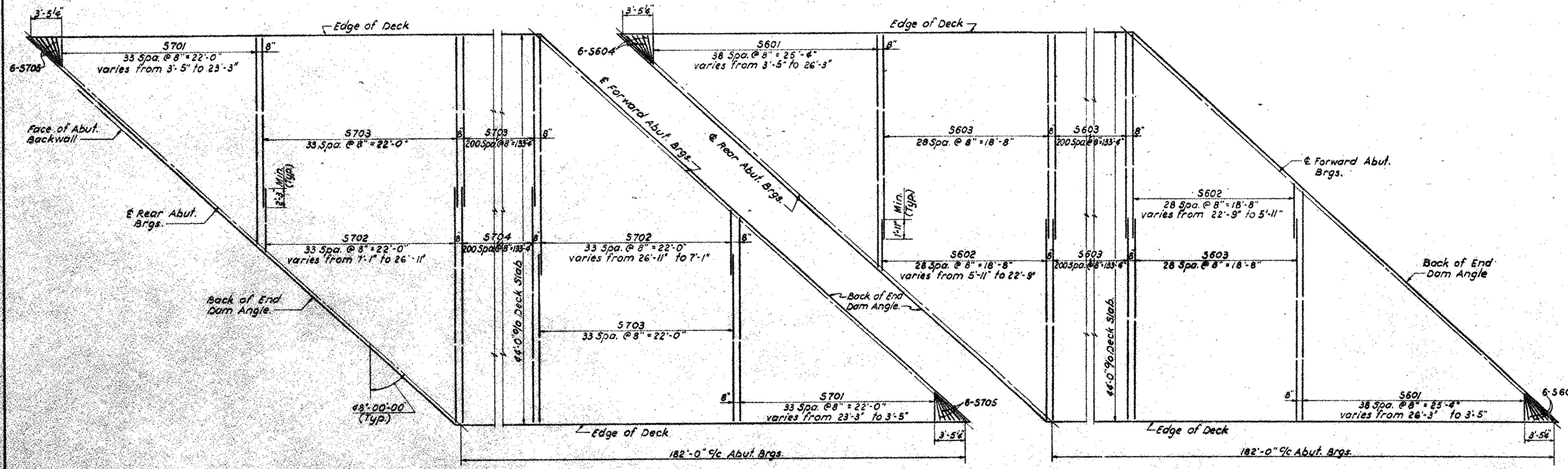
FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.B.	E.B.	E.B.	C.F.K.	R.D.	11-61	

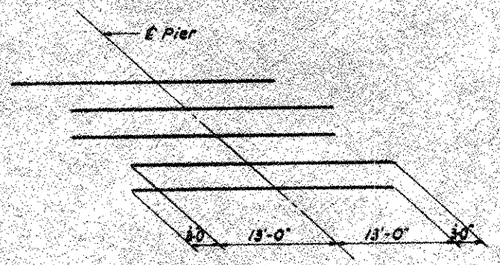
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

309
333

FRANKLIN COUNTY FRA-200-8.04



PART PLAN
SHOWING TRANSVERSE REINFORCING LAYOUT



STAGGER OF S606 BARS OVER PIERS

BEAM SPLICE DATA

BEAM	TOP MOMENT ℄	BOTTOM MOMENT ℄	DIM. "a"	DIM. "b"
36WF170	10½-¾"×25'-0"	13½-⅝"×25'-0"	12'-0"	13'-0"

DEFLECTION & CAMBER TABLE

LOCATION	SPANS 1 & 3	SPAN 2
Deflection due to Weight of Steel.	0	0
Deflection due to remaining dead load.	⅜"	⅜"
Sum of deflections	⅜"	⅜"
Required Camber	0"	0"

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

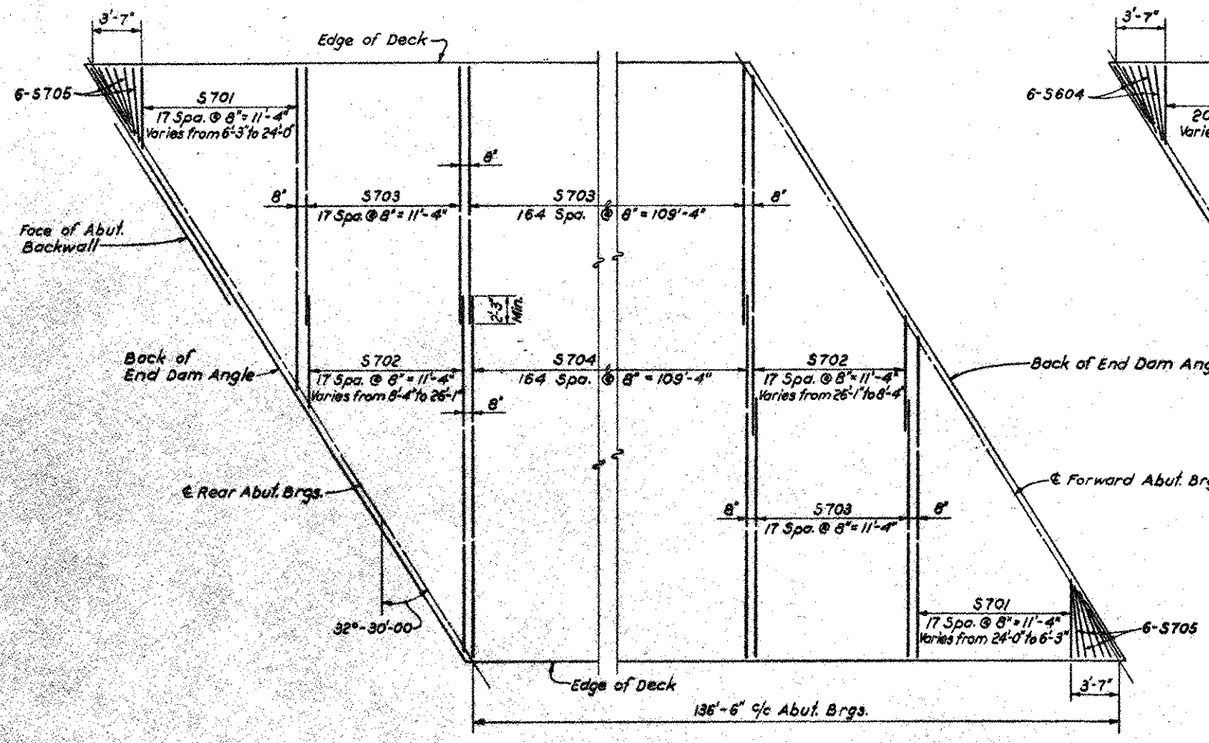
SUPERSTRUCTURE DETAILS RIGHT BRIDGE
BRIDGE NO. FRA-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.B.	L.M.	L.M.	C.F.K.	R.D.	11-61	

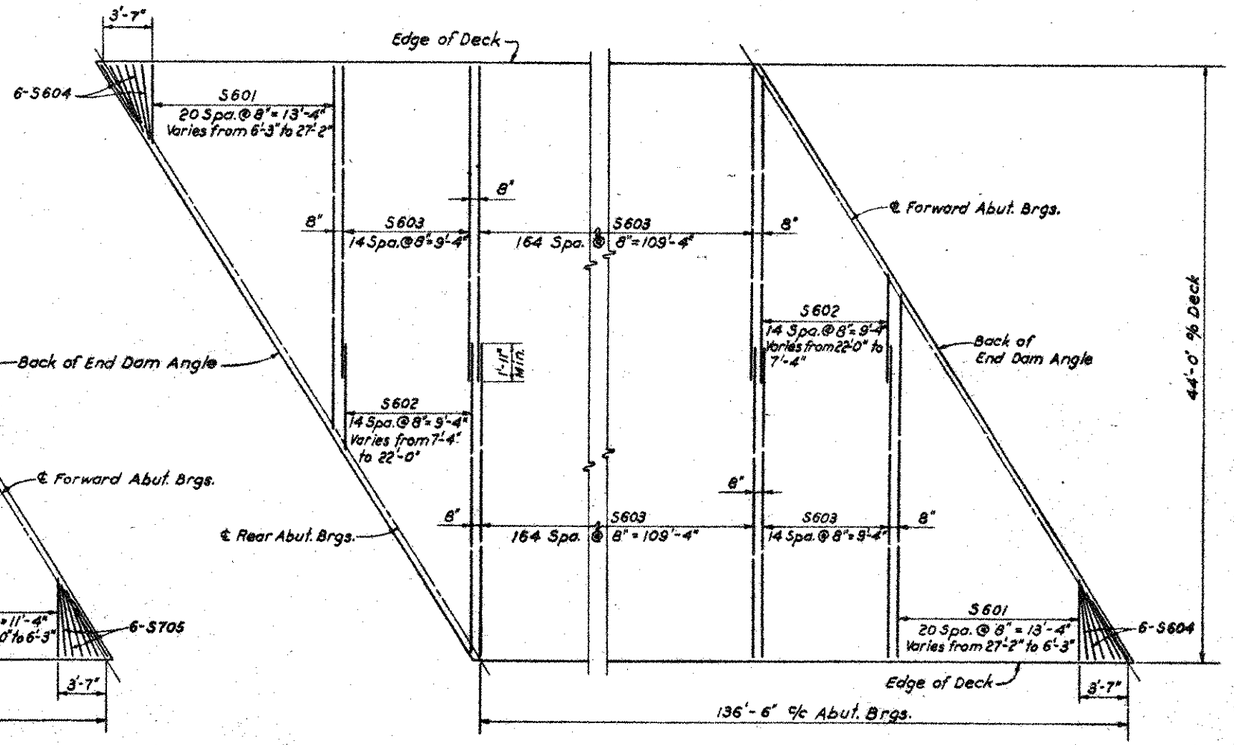
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

307
333

FRANKLIN COUNTY FRA-200-8.04



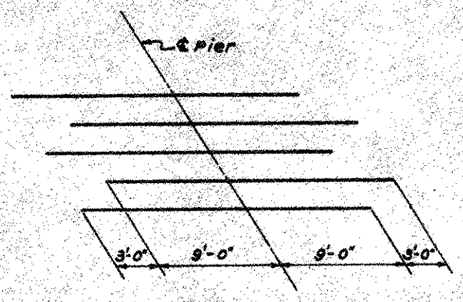
STEEL IN BOTTOM OF DECK



STEEL IN TOP OF DECK

PART PLAN

SHOWING TRANSVERSE REINFORCING LAYOUT



STAGGER OF S606 BARS OVER PIERS

BEAM SPLICE DATA

BEAM	TOP MOMENT ℔	BOTTOM MOMENT ℔	DIM. "a"	DIM. "b"
33 WF 130	10"x 7/16"x 17'-0"	13"x 1/2"x 17'-0"	8'-6"	8'-6"

DEFLECTION & CAMBER TABLE

LOCATION	SPANS 1 & 3	SPAN 2
Deflection due to weight of steel	0"	0"
Deflection due to remaining dead load	3/16"	3/16"
Sum of deflections	3/16"	3/16"
Total camber	0"	0"

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SUPERSTRUCTURE DETAILS LEFT BRIDGE

BRIDGE NO. FRA-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 426+04

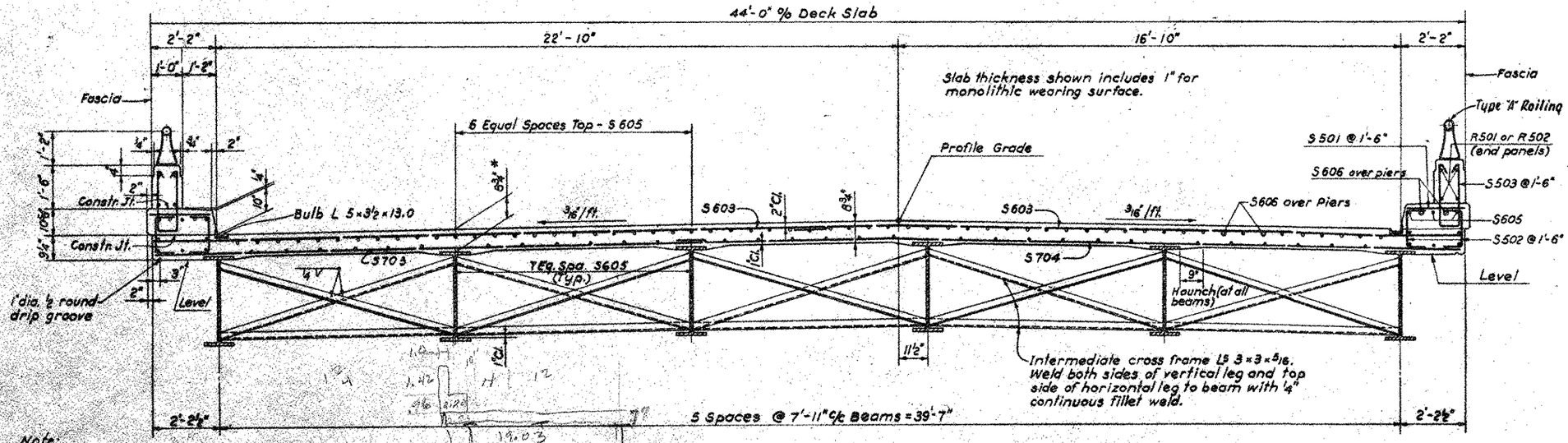
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	E.B.	E.B.	H.B.	R.D.	11-61	

12

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

306
339

FRANKLIN COUNTY FRA-200-8.04



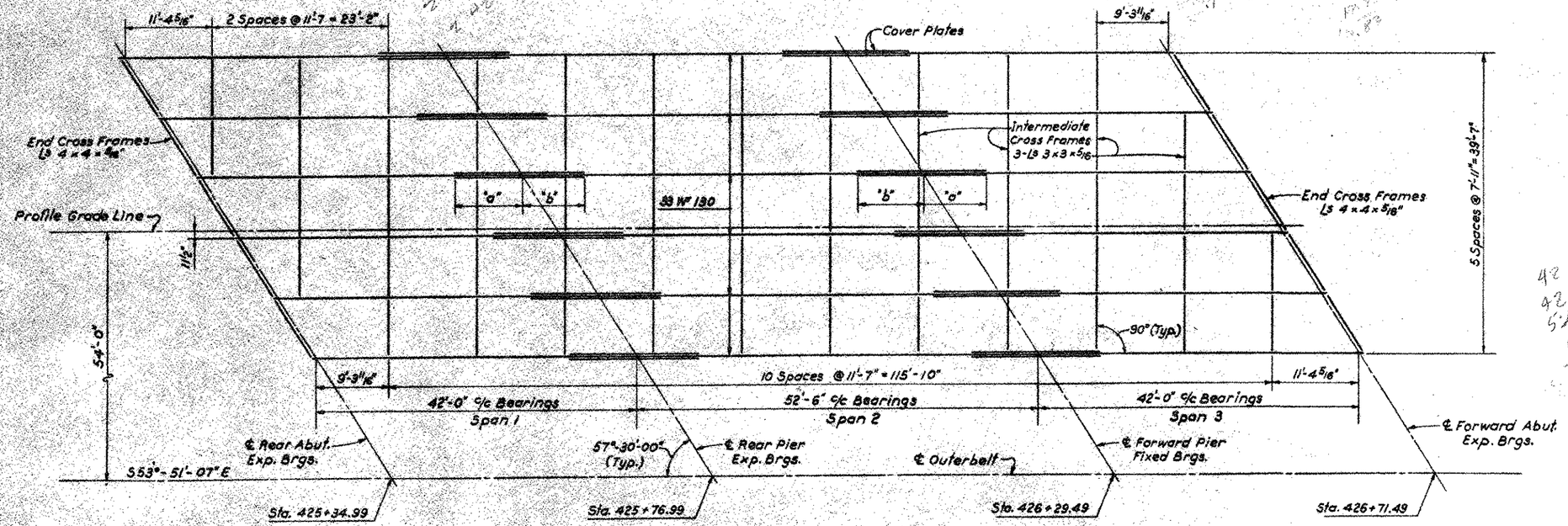
* Nominal Dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

Note:
The haunch in the deck slab adjacent to the top of steel beams, which is shown as 9" wide, may vary from this dimension between the limits of 6" and 12" except that the maximum slope shall not exceed 3" per ft. Payment for deck slab concrete shall be based on the 9" width.

TRANSVERSE SECTION
Looking East

BEAM SPLICE WELDING PROCEDURE

1. Raise the abutment ends of the beams ½".
2. Butt-weld the beam flanges and web, using the following sequence: make two passes on each flange, then two on the web; repeat, using one pass at each location, until welds are completed.
3. Weld the bottom and top moment plates.
4. Lower the beam ends to final position.
5. Butt welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. Finishing flush by grinding is not required.



STEEL FRAMING PLAN

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

SUPERSTRUCTURE DETAILS
LEFT BRIDGE
BRIDGE NO. FRA-200-0904
OVER SCIOTO BIG RUN

FRANKLIN COUNTY — COLUMBUS OUTERBELT STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.F.W.	E.B.	E.B.	C.F.K.	R.D.	11-61	

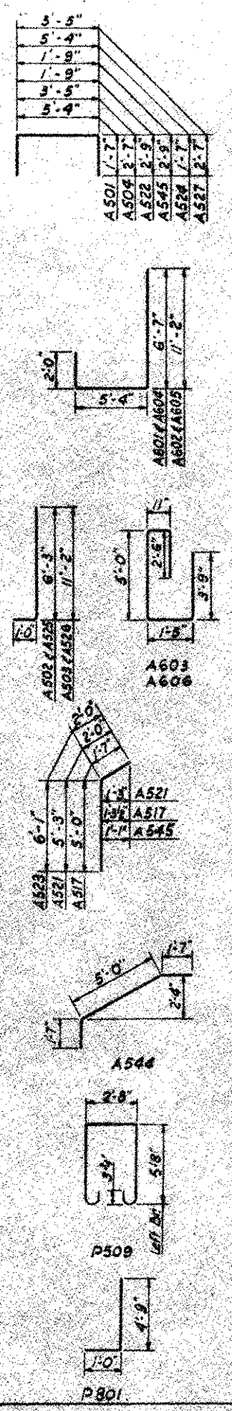
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

310
333

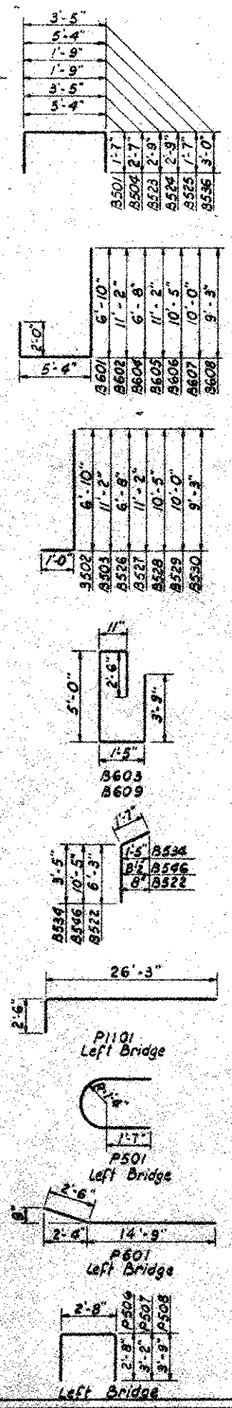
FRANKLIN COUNTY FRA-200-8.04

REINFORCING STEEL LIST

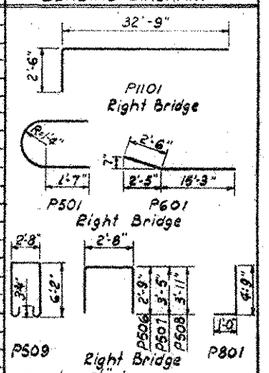
MARK	NO.	LENGTH	WEIGHT	SHP
REAR ABUTMENT				
LEFT BRIDGE				
A801	14	29'-9"	1112	S
A601	39	13'-11"	815	B
A602	6	18'-6"	167	B
A603	51	13'-7"	1040	B
A501	44	8'-6"	390	B
A502	39	7'-3"	295	B
A503	6	12'-2"	76	B
A504	57	8'-7"	510	B
A505	7	25'-3"	184	S
A506	7	25'-2"	184	S
A507	6	11'-11"	50	S
A508	4	7'-7"	32	S
A509	6	35'-8"	223	S
A510	6	31'-1"	195	S
A511	2	34'-6"	72	S
A512	2	29'-10"	62	S
A513	2	32'-2"	67	S
A514	2	28'-3"	59	S
A515	2	30'-6"	64	S
A516	2	26'-5"	55	S
A517	4	6'-7"	27	B
A518	4	6'-0"	26	S
A519	4	7'-0"	29	S
A520	4	7'-9"	32	S
A521	2	7'-3"	15	B
A522	18	7'-3"	136	B
A523	2	8'-1"	17	B
FORWARD ABUTMENT				
LEFT BRIDGE				
A802	14	29'-7"	1106	S
A604	38	13'-11"	794	B
A605	6	18'-6"	167	B
A606	51	13'-7"	1040	B
A524	44	8'-6"	390	B
A525	38	7'-3"	287	B
A526	6	12'-2"	76	B
A527	56	8'-7"	501	B
A528	7	25'-3"	184	S
A529	7	25'-2"	184	S
A530	4	11'-6"	48	S
A531	4	8'-0"	35	S
A532	8	35'-2"	293	S
A533	18	31'-5"	393	S
A534	2	33'-0"	69	S
A535	2	30'-9"	64	S
A536	2	7'-9"	16	S
A537	2	8'-0"	17	S
A538	2	8'-2"	17	S
A539	2	8'-6"	17	S
A540	2	5'-9"	12	S
A541	2	6'-7"	14	B
A542	2	7'-3"	15	S
A543	2	7'-11"	17	S
A544	2	8'-2"	17	B
A545	18	7'-3"	136	B
REAR ABUTMENT				
RIGHT BRIDGE				
B801	14	37'-3"	1392	S
B601	47	14'-2"	1000	B
B602	7	18'-6"	195	B
B603	63	13'-7"	1285	B
B501	54	8'-6"	479	B
B502	47	7'-10"	384	B
B503	7	12'-2"	89	B
B504	65	8'-7"	582	B
B505	7	31'-5"	229	S
B506	7	31'-3"	228	S
B507	4	13'-11"	58	S
B508	4	9'-5"	39	S



MARK	NO.	LENGTH	WEIGHT	SHP
B509	12	43'-6"	544	S
B510	6	39'-3"	246	S
B511	2	39'-0"	81	S
B512	2	36'-2"	75	S
B513	2	33'-3"	69	S
B514	2	7'-10"	16	S
B515	2	8'-0"	17	S
B516	2	8'-2"	17	S
B517	2	8'-4"	17	S
B518	2	5'-8"	12	S
B519	2	6'-3"	13	S
B520	2	6'-10"	14	S
B521	2	7'-5"	15	S
B522	2	7'-10"	16	B
B523	22	7'-3"	167	B
FORWARD ABUTMENT				
RIGHT BRIDGE				
B802	14	40'-7"	1517	S
B604	50	14'-0"	1051	B
B605	9	18'-6"	250	B
B606	1	17'-9"	27	B
B607	1	17'-4"	26	B
B608	1	16'-7"	25	B
B609	63	13'-7"	1285	B
B524	26	7'-3"	197	B
B525	62	6'-6"	550	B
B526	50	7'-8"	400	B
B527	9	12'-2"	114	B
B528	1	11'-5"	12	B
B529	1	11'-0"	11	B
B530	1	10'-3"	11	B
B531	2	5'-6"	11	S
B532	2	4'-10"	10	S
B533	2	4'-2"	9	S
B534	2	5'-0"	10	B
B535	8	8'-4"	70	S
B536	65	9'-5"	639	B
B537	19	31'-5"	624	S
B538	7	31'-3"	228	S
B539	6	19'-3"	120	S
B540	2	17'-0"	35	S
B541	2	14'-8"	31	S
B542	2	12'-4"	26	S
B543	2	9'-9"	20	S
B544	4	9'-9"	41	S
B545	12	39'-5"	493	S
B546	2	12'-0"	25	B
PIERS				
LEFT BRIDGE				
P1101	28	29'-2"	4,339	B
P1102	28	26'-7"	3,955	S
P901	72	12'-0"	2,938	S
P801	88	8'-9"	1,351	B
P703	26	26'-6"	1,408	S
P701	20	18'-3"	766	S
P702	68	21'-6"	2,988	S
P501	40	7'-6"	313	B
P502	40	17'-10"	744	S
P503	4	20'-4"	85	S
P504	8	21'-3"	177	S
P505	8	25'-9"	215	S
P601	8	17'-3"	207	B
P506	40	8'-0"	334	B
P507	40	9'-0"	375	B
P508	40	10'-2"	424	B
P509	18	14'-8"	275	B
PIERS				
RIGHT BRIDGE				
P1101	28	35'-9"	5,244	B
P1102	28	24'-0"	3,570	S



MARK	NO.	LENGTH	WEIGHT	SHP
P901	98	11'-8"	3,915	S
P801	136	5'-8"	2,088	B
P701	20	17'-6"	715	S
P702	116	20'-9"	4,920	S
P601	8	17'-9"	213	B
P501	40	7'-6"	313	B
P502	40	28'-3"	1,220	S
P503	4	31'-3"	130	S
P504	8	27'-3"	227	S
P505	8	31'-9"	265	S
P506	48	8'-2"	409	B
P507	48	9'-6"	476	B
P508	48	10'-6"	526	B
P509	30	15'-8"	490	B
P510	13	36'-9"	485	S
SUPERSTRUCTURE				
LEFT BRIDGE				
S701	two series of 18	6'-3" to 24'-0"	1,113	S
S702	two series of 18	8'-4" to 26'-1"	1,266	S
S703	201	19'-0"	7,806	S
S704	165	26'-11"	9,079	S
S705	12	5'-3"	129	S
S601	two series of 21	6'-3" to 27'-2"	1,054	S
S602	two series of 15	7'-4" to 22'-0"	661	S
S603	360	22'-10"	12,345	S
S604	12	5'-3"	95	S
S605	300	35'-9"	16,109	S
S606	68	21'-0"	2,145	S
S501	196	1'-9"	358	S
S502	392	2'-4"	955	B
S503	196	5'-10"	1,192	B
SUPERSTRUCTURE				
RIGHT BRIDGE				
S701	two series of 34	3'-5" to 23'-3"	1,853	S
S702	two series of 34	7'-1" to 26'-11"	2,363	S
S703	269	19'-0"	10,447	S
S704	201	26'-11"	11,060	S
S705	12	3'-0"	73	S
S601	two series of 39	3'-5" to 26'-3"	1,738	S
S602	two series of 29	5'-11" to 22'-9"	1,249	S
S603	460	22'-10"	15,774	S
S604	12	3'-0"	54	S
S605	375	37'-9"	21,263	S
S606	68	29'-0"	2,961	S
S501	248	1'-9"	454	S
S502	496	2'-4"	1,207	B
S503	248	5'-10"	1,509	B



MARK	NO.	LENGTH	WEIGHT	SHP
RAILING				
LEFT BRIDGE				
R501	56	16'-8"		S
R502	16	9'-3"		S
RAILING				
RIGHT BRIDGE				
R501	80	16'-2"		S
R502	16	9'-1"		S
REPLACEMENT BARS				
RE1100	2	7'-6"	—	S
RE1000	1	7'-2"	—	S
RE800	1	6'-6"	—	S
RE700	3	6'-2"	—	S
RE600	3	5'-11"	—	S
RE500	3	5'-7"	—	S

PARAPET BARS : Horizontal parapet bars R501 and R502 are included with Item 511-14 for payment together with concrete in parapet.

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. For example, P901 is a No. 9 size bar and P1001 is a No. 10 size.

REPLACEMENT BARS : If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Testing Laboratory, test samples as provided in Sec. 511-4.02 need not be furnished and replacement bars will not be required.

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.

REINFORCING STEEL LIST
LEFT AND RIGHT BRIDGES
BRIDGE NO. FRA-200-0904
OVER SCIOTO BIG RUN
FRANKLIN COUNTY
COLUMBUS OUTERBELT
STA. 426+04

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.F.K.	E.B.	L.M.	H.B.	R.D.	11-61	

15

RECEIVED _____ at _____ A.M.

RECORDED _____

PLAT BOOK _____ PAGE _____

SIGNED _____ RECORDER, FRANKLIN COUNTY, OHIO

FEE _____

SIGNED E. I. Shuler DIVISION DEPUTY DIRECTOR

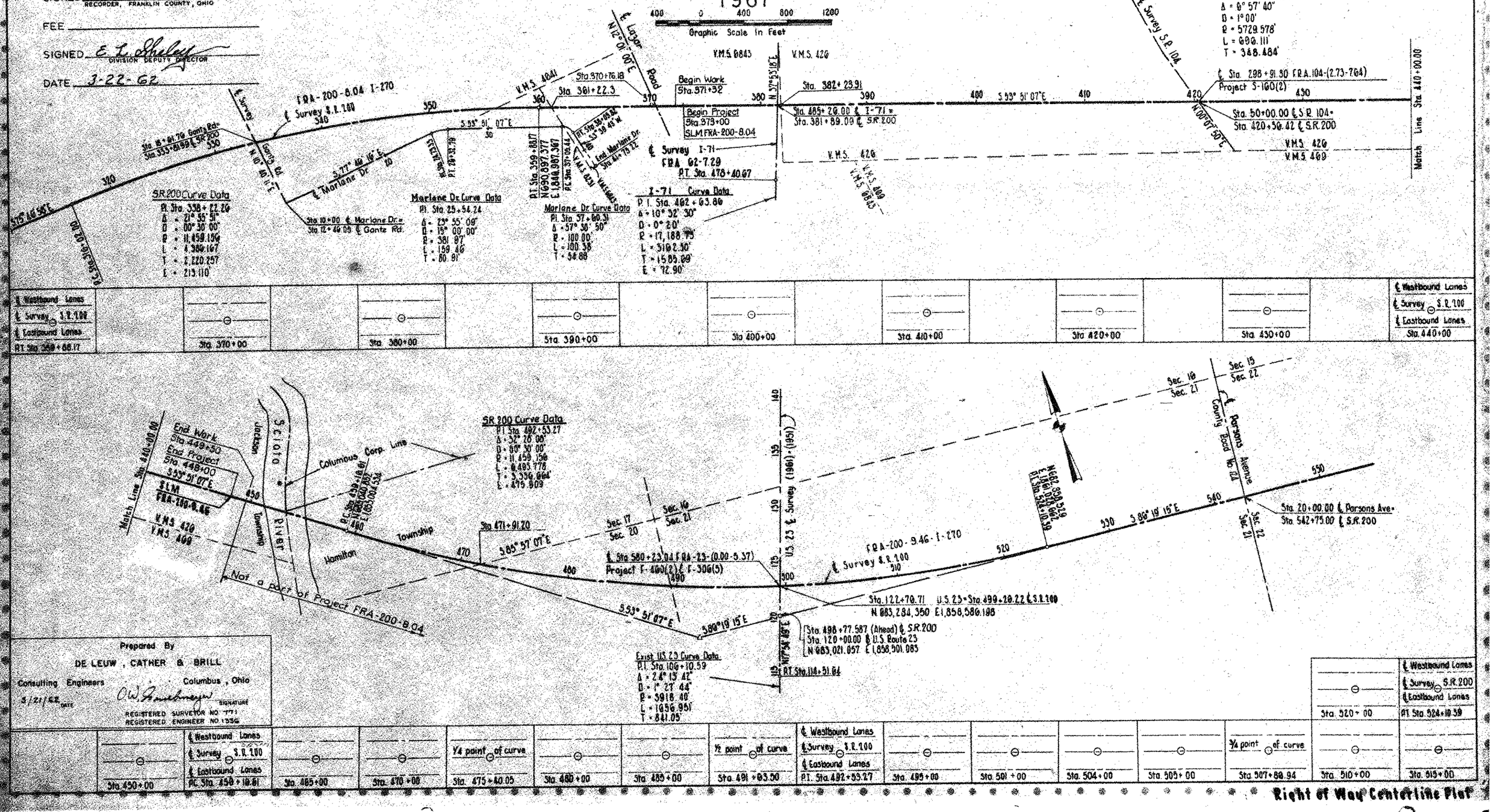
DATE 3-22-62

CENTERLINE PLAT
OHIO DEPARTMENT OF HIGHWAYS
FRA-200-8.04
FRANKLIN COUNTY
JACKSON TWP - VIRGINIA MILITARY DISTRICT, V.M.S. *426, *469, *4641 & *6843
HAMILTON TWP. - T4N, R22W, SECTIONS 17, 20 & 21
1961

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

311/333



Prepared By
DE LEUW, CATHER & BRILL
Consulting Engineers Columbus, Ohio
3/21/62 DATE
O.W. Sonnenberger SIGNATURE
REGISTERED SURVEYOR NO. 7771
REGISTERED ENGINEER NO. 12356

Right of Way Centerline Plat

VLD NO DIVISION	STATE	PROJECT	
2	OHIO	-	

312
333

FRANKLIN COUNTY
FRA-200-8.04

PROPERTY MAP

Struct No FRA-200-0806
See Sheet No. 249

Struct No. FRA-200-0819
See Sheet No. 261

Struct No. FRA-200-0822
See Sheet No. 261

Struct No FRA-200-Ramp "A" Under I-71
See Sheet No. 277

Begin R/W Acquisition

Begin Work Sta. 371+52

Begin R/W Acquisition

Begin Project Sta. 373+60.00 S.L.M. 0.84

Begin work Sta. 453+50

End Work Sta. 518+80

Franklin Development Co, Ltd.

Existing Thrasehill Road (Private)

6" Oil Line - Ashland Pipe Line Co

Proposed L/A R/W

Match Line A-A

Match Line B-B

Match Line to Sheet 313

Completion Date: 4-26-02 Scale: 1" = 200		
Rev	Date	Description

Scale: 1" = 100'

Property Map - I-71 Interchange

PROPERTY MAP

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

313/333

FRANKLIN COUNTY
FRA-200-8.04

End Work
S.R. 104 Sta. 86+75

P.C. 66+86.58

80" Dia. R.C.P.
Sta. 69+00

Proposed L/A R/W

Existing R/W
FRA 104-2.73-7.64

P.T. 59+05.88

Brown's Run

Existing Scioto Big Run

Proposed L/A R/W

Existing S.R. 104

P.C. 57+00.00

Note
Shaded Areas on
S.R. 104 Drives
indicates T-35
Surface

FRANKLIN DEVELOPMENT
CO., LTD.

326

327

328

329

330

331

(AMERICAN AGGREGATES)

Structure No. FRA-200-0904 Lt. & Rt.
See Sh. No. 296

Sta. 426+00 ℄ S.R. 200
Sta. 50+00 ℄ Channel

24" Dia. R.C.P.
Sta. 7.00 Sta. 434+75

End Work
Sta. 449+50

End Project
Sta. 448+00
S.L.M. 946

Proposed L/A R/W

S 69° 31' 01" E

℄ S.R. 200

Future Structure
FRA-200-0952 Rt. & Lt.

(SAMUEL B. HARTMAN)

Scioto

Proposed Channel Change

Match Line
See Sh. No. 312

S 33° 31' 01" E

Sta. 50+00.00 ℄ S.R. 104
Sta. 420+36.42 ℄ S.R. 200

Structure No. FRA-200-0894
See Sh. No. 287

Existing Thrailkill Rd.

Sta. 44+54.78

Scioto Big Run Relocation

27" C.M.P.

(BRANT)

(CARLISLE)

Existing R/W
FRA 104-2.73-7.64

12" Dia. R.C.P.
Sta. 4+75

Begin Work
S.R. 104 Sta. 97+75

320

Scioto Big Run

Proposed Channel Change 2

(SAMUEL B. HARTMAN)

Completion Date 4-26-62 Scale 1"=200'		
Rev.	Date	Description
	11-7-62	

Property Map - S.R. 104 to Scioto River

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
77A	Josephine M. Gantz & Helen G. Gantz	1273	309	72.80Ac	1.112Ac	No			332,333	
77A-WL	" " "	"	"	"	0.403 Ac	"			333	Purchased under Section 1.17
77A-WA	" " "	"	"	"	0.027Ac.	"				
78	Fred C. Kiser, Jr. (Fee Owner) Joseph LeRoy Peters & Rebecca Alice Peters (Land Contract Owners)			2091 Ac.	0.013 Ac.	-	2.078 Ac.	None	332	
78-WA					0.071 Ac.	-				
78A	Kenneth E. Bowers & Laura H. Bowers	1443	100	1.003 Ac.	0.010Ac.	-	1.584 Ac.	None	332	
78A-WA	" " "				0.028 Ac.	-				
79	Ray Jackson & Delores S. Jackson	1789	429	2.207 Ac.	0.029 Ac.	-	2.178 Ac.	None	332	
79-WA	" " "				0.079 Ac.	-				
82-WA	Lewis M. & Eloise C. Greenwalt	1814	110	2.000Ac.	0.033 Ac.	-			332	
83-WA	Stella C. Slager (P.E.R.B.)	2329	133	2.000 Ac.	0.028 Ac.	-			332	
85-WA	Calvin V. Roberts (P.E.R.B.)	2329	129	1.974 Ac.	0.021 Ac.	-			332	
86	John & Clara Ehrlick (P.E.R.B.)	2316	574	1.974 Ac.	0.029 Ac.		1.549			
86-X	" " "	"	"	"	0.338 Ac.			None		
87-88-WA	Virginia E. Schwindt / Sterling B. Keasey	2158 / 1959	323 / 98	2.000 Ac.	0.101 Ac. / 0.073 Ac.	-				
91	John F. Haag Jr.	1209	52	53.80 Ac.	4.102 Ac.	Yes	None	46.017Ac.	332,333	
91-WA	" " "				0.011 Ac.					
91-WL	" " "				4.381 Ac.	No			333	*Purchased under Section 1.17
91A-X	" " "				0.039Ac.	-				
91B-X	" " "				0.048Ac.	-				
91C-X	" " "				0.044Ac.	-				
91D-X	" " "				0.048Ac.	-				
96-WL	Joseph & Margaret Ewing (P.E.R.B.)	2362	281	2.000Ac.	0.04 Ac.	-				Purchased under Section 1.17
97-WL	Marie & Ermal Ball (P.E.R.B.)	2330	229	2.000Ac.	0.182 Ac.	Yes				
98-WL	Carl L. & Elizabeth A. Alford (P.E.R.B.)	2329	551	1.032 Ac.	0.048Ac.	No				
99-WL	James Barnhouse (P.E.R.B.)	2315	29	5.313Ac.	0.491 Ac.	-				
99A-WA	W.M.N.I. Radio Transmitter				0.042 Ac.					

* Left or Right of Marlane Drive & Survey.

Summary of Additional R/W Required

FED. RD. DIVISION	STATE	DISTRICT
2	OHIO	

FRANKLIN COUNTY
FRA - 200 - 8.04

(37) 333

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
100 - WL	Burley Spaulding (Land Contract Owner) Dimitar Traikovich (Fee Owner)	Misc Vol 103	577	5.001 Ac.	* 5.001 Ac.	Yes	None	None	317, 321	* Inclusive of Highway I.R.71 which occupies 0.60 Acres, more or less. Public Employees Retirement Board of Ohio
100A-WL	Delbert & Freda Perdue (Land Contract Owners) Dimitar Traikovich (Fee Owner)	Misc Vol 93	630	5.634 Ac.	* 5.634 Ac.	No	None	None	317, 318, 321	* Inclusive of Highway I.R.71 which occupies 0.83 Acres, more or less.
100B-WL	Lena Crocker (Land Contract Owner) Dimitar Traikovich (Fee Owner)	Misc Vol. 36	220	5.634 Ac.	* 5.634 Ac.	No	None	None	317, 321	* Inclusive of Highway I.R.71 which occupies 0.60 Acres, more or less.
100D-WL	Paul E. Crocker (Land Contract Owner) Dimitar Traikovich (Fee Owner)	Misc Vol. 86	189	9.612 Ac.	* 3.942 Ac.	No	5.67 Ac.	None	317, 321	* Inclusive of Highway I.R.71 which occupies 0.99 Acres, more or less.
100E-WL	John D. Dyer & Anna Dyer	2064	547	75.281 Ac.	* 4.402 Ac.	No	70.879 Ac.	None	321, 322, 323	* Inclusive of Highway I.R.71 which occupies 2.9 Acres, more or less.
101 - WL	H. Griffith Carlisle	2243 1211	160 & 161 25	188.00 Ac.	* 35.594 Ac.	No	39.695 Ac.	None	317, 318, 319, 320, 321	* Inclusive of Highway I.R.71 which occupies 21.65 Acres, more or less.
101D-WA	" "	2243	161	188.00 Ac.	0.049 Ac.				326	
101D	" "	2243	160 & 161	188.00 Ac.	** 0.149 Ac.				326	* Inclusive of Highway S.R.104 which occupies 0.098 Acres, more or less.
101A-WL	" "				0.752 Ac.		None		318	
101B-WL	H. Griffith Carlisle (Thraillkill & Cabin Roads)	198	128		*** 1.024 Ac.				318, 320	*** Inclusive of Highway I.R.71 which occupies 0.066 Acres, more or less.
102 - WL	Franklin Development Co., Ltd.	2382	59	204.731 Ac.	* 36.828 Ac.	No	117.476 Ac.	17.15 Ac.	318, 321, 322, 323, 324, 325, 326, 327	* Inclusive of Highways I.R.71 which occupies 18.55 Acres, more or less, & S.R.104 which occupies 0.383 Acres, more or less.
102	" " "	"	"	"	** 0.736 Ac.				325, 326	** Inclusive of Highway S.R.104 which occupies 0.371 Acres, more or less.
102 - WA	" " "	"	"	"	0.076 Ac.				326	*** Inclusive of Highway S.R.104 which occupies 1.246 Acres, more or less.
102 - X	" " "	"	"	"	0.717 Ac.				324, 325	416.794 Acres transferred to American Aggregates Corporation by Warranty Deeds - Vol. 2150 - Pg. 262 dated Sept. 2, 1954 Vol. 2230 - Pg. 482 dated June 30, 1956
102A	" " "	"	"	"	*** 2.941				327	
102A-WA	" " "	"	"	"	0.150 Ac.				327	
102A-X	" " "	"	"	"	0.95 Ac.				327	
102B-X	" " "	"	"	"	0.13 Ac.				327	
102B-WA	" " "	"	"	"	0.093 Ac.				327	
103 - WL	Wm. H. & Helen J. Williams	1861	501	4.00 Ac.	* 4.00 Ac.	Yes	None	None	318, 320	* Inclusive of Highway I.R.71 which occupies 1.34 Acres, more or less. Public Employees Retirement Board of Ohio
104 - WL	Charles R & Lola M. Everett	2314	335	0.53 Ac.	0.53 Ac.	Yes		None	318, 320	Public Employees Retirement Board of Ohio
105A-WL	Homer Osborn Yates & Lucre R. Yates (Land Contract Owner) Herbert G. Carlisle (Fee Owner)	2319	139 (L.C.)	1.5 Ac.	0.763 Ac.	Yes		0.737 Ac.	320	
105 - WL	Kenneth & Mary Hay (Land Contract Owner) H.G. Carlisle (Fee Owner)	1211	29 (L.C.)	3.00 Ac.	1.587 Ac.	Yes		1.413 Ac.	320	
105B-WL	Eugene R. Hay & Myrtle Hay (Land Contract Owner) Herbert G. Carlisle & Alda M. Carlisle (Fee Owner)	2401	645	6.386 Ac.	0.414 Ac.	No		5.972 Ac.	320	
106 - WL	H. Griffith Carlisle (Fee Owner) Marcus & Rosemarie S. Salyer (Land Contract Owner)	2358 2372	324 (L.C.) 5 (L.C.)	5.981 Ac.	0.089 Ac.	No		5.892 Ac.	318	
107	Julius R & Barbara M. Brant	973	321	159.75 Ac.	* 1.03 Ac.	No		148.666 Ac.	326	* Inclusive of Highway S.R.104 which occupies 0.691 Acres, more or less.
107 - X	" " "				0.21 Ac.				326	
107 - WA	" " "				0.022 Ac.					
107A	" " "				*D. 614 Ac.				326	** Inclusive of Highway S.R. 104 which occupies 0.461 Acres, more or less.
107A-X	" " "				0.332 Ac.				326	
107A-WA	" " "				0.019 Ac.				326	
107B-X	" " "				2.757 Ac.				331	
108 - WL	American Aggregates Corp.	2150 2290	262 482	231.596 Ac. 185.198 Ac.	* 21.008 Ac.	No	374.458 Ac.	18.601 Ac.	326, 327, 328, 329, 330, 331	* Inclusive of Highway S.R.104 which occupies 0.855 Acres, more or less.
108	" " "				** 0.551 Ac.				326	** Inclusive of Highway S.R.104 which occupies 0.234 Acres, more or less.
108-WA	" " "				0.117 Ac.				326	*** Inclusive of Highway S.R.104 which occupies 0.910 Acres, more or less.
108-X	" " "				1.217 Ac.				328	
108A	" " "				*** 2.176 Ac.				325, 327	
108A-WA	" " "				1.617 Ac.				328, 329, 331	
108A-X	" " "				3.441 Ac.				328	
108B-X	" " "				1.277 Ac.				327	
108C-X	" " "				3.224 Ac.				330	
108D-X	" " "				1.894 Ac.				331	
108E-X	" " "				0.942 Ac.				327	

* For Net Area see Sheet Indicated

Summary of Additional R/W Required

Rev. 11-2-82

2	DESIGN NO.	
OHIO	STATE	
	PROJECT	

FRANKLIN COUNTY
FRA-108-1.04

326
SHEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

316
333

FRANKLIN COUNTY
FRA-280-8.66

LIMITED ACCESS

Jackson Township
V.M.S.# 4641 & 6839

John P. & Louise M. Carpenter
V.M.S.# 6839
75 WL

Raymond T. & Phyllis C. Farrel
V.M.S.# 6839
80 WL

Donald R. Farrel
V.M.S.# 6839
81 WL

Steward G. & Norma J. Gibboney
V.M.S.# 4641 & 6839

R. & J. Bever

Calvin & Thelma Roberts
V.M.S. 4641 (P.E.R.B.)
85 WL

Begin Sheet at Sta 332+00

Gantz Road

Sta.18+81.78 ℄ Gantz Rd=
Sta.333+81.89 ℄ S.R. 800

℄ Survey 1961-S.R. 2.00

N10°30'11"E

Lawrence W. & Dorothy E. Hoffman
V.M.S.# 4641 & 6839
76 WL

Thelma Gilbert
V.M.S.# 6839
78 WL

Roy & Delores S. Jackson
V.M.S.# 4641
79 WL

Curve Data
P.I. Sta. 337+67.91
Δ = 21° 55' 51"
D = 00° 30' 00"
R = 11,459.156'
L = 4386.167'
E = 213.110'

Lewis M. & Eloise C. Greenwalt
V.M.S.# 4641 & 6839
82 WL

Stella C. Slagle (P.E.R.B.)
V.M.S.# 4641
83 WL

Wilber R. & Freda W. Foy
V.M.S.# 4641
84 WL

Sta 347+00

Match to Sheet No 317

THIS SHEET FOR INFORMATION ONLY

Sta 327+00

John & Clara Ehrlick
V.M.S.# 4641 (P.E.R.B.)
86 WL

Forest Ave

Virginia E. Schwindt
V.M.S.# 4641
87 WL

Sterling B. Keasey
V.M.S.# 4641
88 WL

Edwin J. & Verna S. Kamp
V.M.S.# 4641 (P.E.R.B.)
89 WL

Josephine M. & Helen G. Gantz
V.M.S.# 4641 (P.E.R.B.)
90 WL

John E.R. & Goldie Marie Bauman
V.M.S.# 4641 (P.E.R.B.)
90A WL

Ralph R. & Dorothy A. Ryerson
V.M.S.# 4641
91A

Ramp "D"
Sta. 0+00

88 WA

87A WB

86 X

87

86

85 WL
Calvin & Thelma Roberts
(P.E.R.B.)

Marlane Drive

℄ Josephine M. & Helen G. Gantz

℄ Roadway
P.C. Sta. 24+48.67

75' ℄ Survey

℄ Survey P.T. Sta. 26+32.79 Ahead =
℄ Roadway Sta. 26+30.67 Back

℄ Roadway
P.T. Sta. 26+08.13

P.C. Sta. 1+00.09

For Details of R.O.W. for Marlane Drive see Sheet Nos. 332 & 333

THIS SHEET FOR INFORMATION ONLY

Jackson Township
V.M.S.# 4641, 6839 & 8281

S 53°51'07" E

℄ Survey

℄ Marlane Drive

Const. Limits

Const. Limits

Right edge of Pavement

Ramp "C"

S 53°02'46" E

Curve Data
P.I. Sta. 337+67.91
Δ = 21°55'51"
D = 00°30'00"
R = 11,459.156'
L = 4386.167'
E = 213.110'

℄ Survey 1961-S.R. 2.00

S 55° 20' 36" E

P.T. Sta. 5+00.67

P.C. Sta. 6+28.03

Ramp "D"

Right edge of pvmt

S 53° 51' 07" E

Jesse & Parmelia Spicer
94 WL

James Centers
95 WL

John F. Haag, Jr.
91

Ralph R. & Dorothy A. Ryerson
91B

Private Road 2

Clara Mae Agosty

Dada A. Blevins

Earl & Francis Rutherford

Bldg. Found. Ruins

Sta 339+88.75 P.T.
Sta 339+88.75 P.C.
Sta 340+00.67 P.T.

Match to Sheet No 317

S.R. 280 R/W PLANS Sta. 332+00 To Sta. 368+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA - 200 - 8.04

317
333

Ramp 'T' Curve Data
Δ = 33°-01-56"
D = 4°-30'
R = 1273.24'
L = 734.05'
Ls = 200.00'
θs = 4°-30'
P = 1.31'
K = 99.98'

Jackson Township
V.M.S. # 6843 & 8131

Ramp 'T' Curve Data
Δ = 17°-09-07"
D = 3°-00'
R = 1909.86'
L = 571.74'

LIMITED ACCESS

Intermediate Anchor Post Assembly 70' Rt. Ramp 'C' Sta. 8+00

Carl & Frances Rutherford

Jesse & Permelia Spicer

James Cealters

Joseph & Margaret Lunn

Marvin & Ermal Bell

Mark L. & Elizabeth A. Allred

John F. Haag Jr.

James Barnhouse

Paul Crocker (Land Contract) Dimitar Trajkovich (Fee)
Total 3.942 Ac.
acc. 0.990 Ac.
Net 2.952 Ac.

Burley Spaulding (Land Contract) Dimitar Trajkovich (Fee)
Total 5.001 Ac.
acc. 0.600 Ac.
Net 4.401 Ac.

Lena Crocker (Land Contract) Dimitar Trajkovich (Fee)
Total 5.634 Ac.
acc. 0.600 Ac.
Net 5.034 Ac.

Delbert & Freda Perdue (Land Contract) Dimitar Trajkovich (Fee)
Total 5.634 Ac.
acc. 0.890 Ac.
Net 4.744 Ac.

Corner Post Assembly 101' Lt. Ramp 'C' Sta. 10+19

Begin R/W Acquisition

Begin Project O.D. Sta. 373+00 S.M. 8.04

Begin Work ℄ Survey - O.D. Sta. 371+52 ℄ Lazar Road

Begin R/W Acquisition

Proposed R/W Fence-Type 'D'

Proposed R/W Fence-Type 'T'

Survey Line (1961) ℄ Lazar Road

℄ Aerial Lines (Top 4 Lines) Columbus & Southern Ohio Electric Co. Constr. Limits ℄

℄ Aerial Lines Columbus & Southern Ohio Electric Co. ℄ Aerial Lines Ohio Bell Telephone Co.

℄ Aerial Lines Columbus & Southern Ohio Electric Co. ℄ Aerial Lines Ohio Bell Telephone Co.

Columbus & Southern Ohio Electric Co. ℄ Aerial Cable to Radio Station ℄ Aerial Lines Ohio Bell Telephone Co.

Corner Post Assembly 75' Lt. Ramp 'D' Sta. 20+37

Intermediate Anchor Post Assembly 99' Rt. Ramp 'D' Sta. 23+60

Ramp 'A'

Ramp 'B'

Ramp 'C'

Ramp 'D'

Ramp 'E'

Ramp 'K' Curve Data
Δ = 47°-07'-28"
D = 3°-00'
R = 1909.86'
L = 1570.82'

Jackson Township
V.M.S. # 6843 & 8131

T.T.-O. Road

℄ E. B. Lanes

℄ W. B. Lanes

Field Drive

Patio

Shed

Barn

Pond

Creek

Bridge

Match to Sheet No. 316

Match to Sheet No. 318

Match to Sheet No. 321

Match A-A This Sheet

Match B-B Sheet No. 318

For 1122.70' total length Match this sheet with Sheets Nos. 318 & 321

8" Oil Line-Ashland Pipe Line Co.

Completion Date 4-26-62 Scale 1"=50'

Rev.	Date	Description
	11-7-62	

LIMITED ACCESS

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

318
333

Jackson Township
V.M.S.# 6843, 426, & 469

Match to Sheet No. 321

Delbert & Freda Perdue
(Land Contract)
Dimitar Traikovich
(Fee Owner)

100A WL
Total 5.636 Acres
Occ. 0.890 Acres
Net 4.746 Ac.

1122.70' (Deed)
S 05° 33' 24" E
For 1122.70' total length Match this sheet with Sheets Nos. 317 & 321

S.R. 200 Sta. 377+87.84
S 53° 51' 07" E
Survey 1961 - S.R. 200

'K' C-D Road

Dense Vegetation

Match to Sheet No. 317

H. Griffith Carlisle
101 WL
Total 35.594 Ac.
occ. 21.650 Ac.
Net 13.944 Ac.

Remy 'B'

I.R. 71 Sta. 480+07.83

Ramp 'A' Curve Data
Δ = 140° 29' 01"
D = 7° 30' 00"
R = 763.94'
L = 1873.12'

Sta. 480+00 150 Rt.

Oil Line-Ashland Pipe Line Co-Ashland Oil

Existing Southbound I. R. 71

Survey FRA-62-7.29 (I.R. 71)
N 31° 55' 18" E
I.R. Sta. 478+48.67

Ramp 'A' Sta. 37+46.19
I.R. 71 Sta. 477+64.96

Existing Northbound I. R. 71

43.9' I.R. 71 Sta. 479+76.8

J.C.D. Road

V.M.S. #6843

S 34° 23' 49" W
717.59

Sta. 480+08.9 150 Rt.

I.R. 71 Sta. 480+17.09 150 Rt.

Ramp 'G'

VMS# 426

S 54° 59' 09" E
855.37

1018 WL
V.M.S. #843
N 54° 59' 09" W
654.58

159.50'
I.R. 71 Sta. 479+82.05

1018 WL

Ramp 'A' Spiral Data
Ds = 9° 12' 30"
Ls = 190.00'
L = 188.36'

William H. & Helen J. Williams
(P.E.R.B.)
Total 3.00 Acres
Occ. 1.34 Acres
Net 2.66 Acres

Franklin Development Co., Ltd
Total 66.828 Ac.
Occ. I.R. 71 18.550 Ac.
Occ. S.R. 104 0.383 Ac.
Net 47.895 Ac.

T.S. Sta. 39+00
S.C. Sta. 41+90
S.T. Sta. 41+88.55

102 WL

Riding Academy

Match to Sheet No. 324

503.42' S.R. 200 Sta. 390+86.74
912.51' I.R. 71 Sta. 480+50.08

720.34' I.R. 71 Sta. 480+40.71
S 01° 05' 13" W
35.95'

S 61° 38' 35" E
S 31° 10' 03" W 33.98'

S 24° 24' 10" E
192.40'

N 54° 54' 10" W 128.99'

737.74'
I.R. 71 480+11.54

N 66° 51' 05" W
115.62'

772.61'
I.R. 71 Sta. 479+53.05

I.R. 71 Sta. 480+17.09

106 WL
H. Griffith Carlisle
0.089 Ac.

S 86° 00' 34" E
304.75'

S 86° 00' 34" E
266.59'

Ramp 'A' 25° 00'
261.98'
I.R. 71 Sta. 479+45.58

484.79'
I.R. 71 Sta. 478+41.58

460.08'
I.R. 71 Sta. 478+60.12

43.9' Sta. 479+76.8

Ramp 'A'

Proposed Woodland Farm Park Addition Connection of Cabin Road (Private) and Thrailkill Rd. (Private)

Proposed R/W Fence Type 'D'

Constr. Limits

Proposed LA R/W

Intermediate Anchor Post Assembly 78' Rt. Ramp 'H' Sta. 28+00.00

V.M.S. #6843

S 26° 11' 04" W
304.47'

104 WL
Charles R. Everett
(P.E.R.B.)
0.59 Ac.

101A WL
H. Griffith Carlisle
0.752 Ac.

H. Griffith Carlisle
Dale L. & Dorothy J. Harley

1018 WL
H. Griffith Carlisle
Total 1.024 Ac.
Occ. 0.066 Ac.
Net 0.958 Ac.

N 51° 58' 38" E
320.00'

Ramp 'H'

S 51° 58' 38" W
220.40'

I.R. 71 Sta. 477+68.09

Ramp 'H' Curve Data
Δ = 30° 05' 47"
D = 4° 30' 00"
R = 1273.24'
L = 669.01'

Proposed R/W Fence Type 'D'

N 10° 50' 10" W
308.60'

N 04° 17' 27" E
301.70'

Constr. Limits

Ramp 'D'

517.61' I.R. 71 Sta. 477+49.67
763.01' S.R. 200 Sta. 376+48.32

Intermediate Anchor Post Assembly
68' Rt. Ramp 'D' Sta. 26+77.32

Ramp 'D' Curve Data

Δ = 47° 01' 23"	Δ = 24° 01' 23"
D = 8° 00' 00"	D = 4° 30' 00"
R = 1909.86	R = 1273.24'
L = 1570.82'	L = 638.07'

Insert Shown on Sheet No. 326

Match to Sheet No. 317

Match to Sheet No. 320
Jackson Township V.M.S.# 6843, 426, & 469

Completion Date 4-26-62 Scale: 1"=30'

Rev.	Date	Description
	11-7-62	

S.R. 200 R/W PLANS - Sta. 375+00 to Sta. 390+00

Jackson Township
V.M.S.# 8231

LIMITED ACCESS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA - 200 - 6.04

319
335

South Freeway (I.R. 71) Curve Data.
P.I. Sta. 462 + 63.86
Δ = 10° 32' 30" Rt.
D = 0° 20'
R = 17,188.73
L = 3182.50
E = 72.99'

Robertshaw - Fulton
Controle Co.

BEGIN WORK
STA. 453+50

Point of Beginning
Sta. 450+75.3

Serv. Rd. Sta. 28+11.1

Existing Service Road

Existing R/W

N 30° 44' 35" E

N 88° 25' 29" E

Sta. 30+00

R = 17,338.73'

Ramp 'D' Sta. 50+31.50
Sta. 455+50.67 00 Lt

Existing South Bound (I.R. 71)

℄ Survey

Existing North Bound (I.R. 71)

Ramp 'H' Sta. 0+00
P.C. I.R. 71 Sta. 455+50.00

Ramp 'H' Sta. 1+00.10
P.T. I.R. 71 Sta. 456+50.00

P.T. Sta. 5+38.10

Construction Limits

R = 17,058.75'

S 33° 07' 20" W
287.27'

End Sheet 3rd
Sta. 445+00

Ramp 'C'

Tan to Curve 434

P.C. I.R. 71 Sta. 448+78.17

Existing R/W

I.R. 71 Sta. 448+80

I.R. 71 Sta. 452+08.71

I.R. 71 Sta. 457+00

I.R. 71 Sta. 460+00

Match Line to Sta. 460+00
Match to Sheet No. 320

Iona Mae McClain

Ramp 'H' Curve Data
Δ = 5° 34' 55"
D = 1° 30'
R = 3819.72
L = 230.80'

H. Griffith Carlisle

101
WL

Total 95.598 Acres
Occ. 91.650 Acres
Net 19.966 Acres

Completion Date 6-26-92 Scale 1" = 30'		
Rev.	Date	Description

Jackson Township
V.M.S. 8231

3-92 R/W PLANS - Sta. 445 + 00 to Sta. 460 + 00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-6.04

320
333

LIMITED ACCESS

Jackson Township
V.M.S. #6865 & 8231

Ramp "D" Curve Data
Δ = 3° 00' 00"
D = 1° 30'
R = 3819.72'
L = 200.00'

South Freeway Curve Data
P.I. Sta. 462 + 83.86
Δ = 10° 52' 30"
D = 0° 30'
R = 17,189.73'
L = 3182.50'
E = 72.90'

Ramp "D" Curve Data
Δ = 12° 30' 21"
D = 3° 00'
R = 1909.86'
L = 416.86'

Ramp "B" Curve Data
Δ = 24° 27' 35"
D = 4° 30'
R = 1273.24'
L = 538.07'

101 WL
H. Griffith Carlisle

Wooded

Robertshaw-Fulton Controls Co.

The Ohio Holding Co.

Cultivated

Proposed R/W Fence Type 'D'

End Post Assembly
158' Rt. Ramp 'D' Sta. 33+18

N 27° 02' 35" E

160'
'D' Sta. 33+85

297.09'
Sta. 471+36.45

270'
I.R. 71 Sta. 471+90

End Post Assembly
149' Rt. Ramp 'D'
Sta. 34+01

Proposed L.A. R/W

Connect to Exist. I.R. 71 R/W Fence
Corner Post Assembly
46' Rt. Ramp 'D' Sta. 36+32.00

N 01° 44' 25" E
373.85'

186.7'
Constr. Limits

150'
I.R. 71 Sta. 471+90

150'
I.R. 71 Sta. 470+00

190'
I.R. 71 Sta. 469+37.5

150'
I.R. 71 Sta. 466+81.7

150'
I.R. 71 Sta. 460+00

P.C. Sta. 39+31.39

P.T. Sta. 38+30.85

P.C.C. Sta. 36+33.85

Constr. Limits

Ramp "D"

N 32° 54' 06" E

91.5'
Sta. 468+47.70

Existing South Bound I. R. 71

Sta. 466+52.1

S 57° 15' 04" E
250.04'

Sta. 468+90.5

Sta. 469+82.00

Derwood W. Lewis &
Effie Pauline Lewis

Survey I. R. 71

Existing North Bound I. R. 71

63.8'
Sta. 465+31.00

N 03° 04' 50" E
301.69'

Sta. 464+98

Match to Sheet No 319
Match Line to Sta. 460+00

Connect to Exist I.R. 71
R/W Fence

R. 17028.73'

160'
I.R. 71 Sta. 465+90.50

1496'
Sta. 466+13.00

S 57° 15' 04" E
100.06'

N 69° 08' 31" W
100.03'

S 57° 15' 04" E
1473'

I.R. 71 Sta. 466+49.54

Constr. Limits

P.C.C. Sta. 15+97.07

Proposed R/W Fence Type 'D'

Proposed L.A. R/W

589.00'
S 40° 10' 55" W

160'
I.R. 71 Sta. 460+34.83

Intermediate Anchor Post Assembly
61' Rt. Ramp 'H' Sta. 6+88

Intermediate Anchor Post Assembly
98' Rt. Ramp 'H' Sta. 11+30

225.45'
I.R. 71 Sta. 466+30.17

Corn Crib

Place Guard Rail
Between L.A. Line & Fence

255.09'
S 38° 48' 02" W

230.68'
I.R. 71 Sta. 466+92.65

Ramp "H"

Eugene R. & Myrtle Hay
(Land Contract)
Herbert G. Carlisle & Alda M. Carlisle
(Fee Owner)
0.414 acres
Wooded

Ramp "H" Curve Data
① Δ = 1° 14' 55"
D = 1° 30'
R = 3819.72'
L = 55.24'

② Δ = 12° 30'
D = 1° 30'
R = 3819.72'
L = 800.00'

Kenneth & Mary Hay
(Land Contract)
Herbert G. Carlisle & Alda M. Carlisle
(Fee Owner) 1.587 acres

Intermediate Anchor Post Assembly
83' Rt. Ramp "H" Sta. 16+10.00

372.07'
I.R. 71 Sta. 471+41.5

Ramp "H" Curve Data
Δ = 16° 00' 00"
D = 3° 00'
R = 1909.86'
L = 600.00'

H.G. Carlisle (Fee)
Gomer O. Yates
&
Leora R. Yates (Land Contract)
0.763 acres

H.G. Carlisle (Fee)
Ulner Lee Clark &
Dina V. Clark

Intermediate Anchor Post Assembly
67.32' Rt. Ramp 'H' Sta. 22+50.44

N 08° 57' 34" E

Byrd Schaub Rd. (Private)

Ramp 'H' Sta. 22+30.44

Dale L. & Dorothy J. Harley

H. Griffith Carlisle
Total 95.996 Acres
Occ. 21.650 Acres
Net 13.944 Acres

Completion Date 4-26-62 Scale: 1"=50'

Rev.	Date	Description
	11-7-62	

Jackson Township
V.M.S. #6865 & 8231

End Ramp "B" Sta. 37+08.10
I.R. 71 Sta. 479+52.00

Channel Change Easement
Acquired on Project FRA 62-7.29

280'
I.R. 71 Sta. 471+85

205'
I.R. 71 Sta. 472+25

P.C.C. Sta. 37+19.93

178'
I.R. 71 Sta. 475+00

901.70'
N 04° 17' 27" E

Intermediate Anchor Post Assembly
88' Rt. Ramp 'D' Sta. 30+00

'D' Sta. 30+00
I.R. 71 Sta. 475+02.59

35.24'

90°

353.79'

105A WL
William H. & Helen J. Williams (P.E.C.S.)
Total 4.00 Acres
Occ. 1.34 Acres
Net 2.66 Acres

P.C.C. Sta. 21+97.07

Sta. 478+42.50

409.40'
I.R. 71 Sta. 474+62.34

Intermediate Anchor Post Assembly

427.47'
I.R. 71 Sta. 475+88.75

Ramp 'H' Sta. 22+30.44

Charles E. Everett (P.E.C.S.)
0.83 Acres

Match to Sheet No 318

Proposed Realigned Farm Lane Additions & Connection to Schaub Road (Private) to Be Constructed by Contractor

300.36'
S 42° 24' 36" W

197.31'
I.R. 71 Sta. 474+24.82

201.77'
I.R. 71 Sta. 474+17.84

160'
I.R. 71 Sta. 470+50

S 24° 49' 36" W
288.90'

288.3'
I.R. 71 Sta. 475+82

210'
I.R. 71 Sta. 476+00

290.3'
I.R. 71 Sta. 475+82

S 05° 58' 20" W
241.19'

330.22'
I.R. 71 Sta. 474+10.50

S 32° 40' 55" W
200.01'

272.45'

S 05° 58' 20" E
195.88'

N 05° 58' 20" E

Jackson Township
V.M.S. #6865 & 8231

I-71 R/W PLANS: Sta. 460+00 to Sta. 479+52

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

321
333

FRANKLIN COUNTY
FRA-200-8.04

LIMITED ACCESS

Match to Sheet No. 322

Jackson Township
V.M.S. #6843, 6841, & 6116

Intermediate Anchor Post
Assembly 48' Rt Ramp "A" Sta. 15+00

Anna Dyer
Total 6.402 Acres
Occ. 1.90 Acres
Net 4.502 Acres
V.M.S. #6841
V.M.S. #6843
S 76° 36' E (Deed)

100L WL

N 59° 16' 36" E 91.03'

150' I.R. 71 Sta. 495+80

Ramp "A" Curve Data
Δ = 18° 58' 51"
D = 3° 00'
R = 1909.86'
L = 632.70'

370.36' I.R. 71 Sta. 494+83.11

N 09° 35' 17" E 260.78'

Ramp "A"

Intermediate Anchor Post
Assembly 48' Rt Ramp "C" Sta 1+00

Ramp "C" Curve Data
Δ = 12° 09' 01"
D = 3° 00'
R = 1909.86'
L = 571.74'

748.88' SR 200 Sta. 377+02.14

L.A. Proposed R/W Fence Type "D"

Construction Limits

100D WL

Paul Cracker
(Land Contract)
Dimitar Traikovich
(Fee)
Total 3.942 Ac.
acc. 0.990 Ac.
Net 2.952 Ac.

I.R. 71 Sta. 492+71.5

150'

Intermediate Anchor Post
Assembly 48' Rt Ramp "C"
Sta. 4+00

N 77° 49' 18" E 78.84'

320.71' SR 200 Sta. 375+08.34

Proposed R/W Fence Type "D"

Sta. 19+43.78 Rt

Burley Spaulding
(Land Contract)
Dimitar Traikovich
(Fee)

100 WL (P.E.R.B.)

(1380.23' Deed) S 77° 04' E

N 77° 57' 43" W 945.13'

Existing L.A. R/W

"J" C-D Road

Ramp "D"

Cultivated
Total 5.001 Ac.
acc. 0.600 Ac.
Net 4.401 Ac.

Field Drive

(291.94' (Deed) S 77° 04' E

Ramp "C"

Ramp "B"

S.C. Sta. 0+49.35

T.S. Sta. 0+39.35

150' I.R. 71 Sta. 490+00

C.S. Sta. 1+85.26 "B"

100B WL

Leon Cracker
(Land Contract)
Dimitar Traikovich
(Fee)
Total 5.634 Ac.
acc. 0.600 Ac.
Net 5.034 Ac.

150' I.R. 71 Sta. 486+70.6

1209.45' (Deed) S 77° 04' E

S.C. Sta. 1+49.98 "B"

T.S. Sta. 0+00 "B"

100A WL

Delbert & Freda Perdue
(Land Contract)
Dimitar Traikovich
(Fee)
Total 5.634 Ac.
acc. 0.890 Ac.
Net 4.744 Ac.

180' Sta. 486+36.6

"I" C-D Road

Field Drive

H.T.L. 70' (Deed)

H. Griffith Carlisle
Total 49.650 Acres
acc. 34.050 Acres
Net 15.600 Acres

101 WL

S 76° 32' 24" E

376 377 378 379 380 381

00' SR 200 Sta. 377+87.84

For 1122.70' total length
Match this sheet with
Sheets Nos. 326 & 327

Match to Sheet No. 317

Existing South Bound I.R. 71

Survey I.R. 200 (1981)

Existing North Bound I.R. 71

N 34° 47' 12" E 327.39'

S 34° 47' 36" W 170.10' (Deed)

I.R. 71 Sta. 491+19.37

N 34° 47' 12" E 212.90'

N 34° 47' 12" E 224.43'

S 34° 47' 12" W 224.43'

Sta. 487+21.21

Sta. 486+63.7

Sta. 485+26.00

S 34° 47' 12" W 212.90'

Sta. 482+27.36

S 34° 47' 12" W 212.90'

Sta. 481+63.8

Sta. 491+11.3

Sta. 491+60.8

Sta. 485+50

S 55° 51' 01" E

484 485 486 487 488 489 490 491 492 493 494 495

Match to Sheet No. 318
Jackson Township
V.M.S. #6843, #6841, & 6116

Match to Sheet No. 324

LIMITED ACCESS

150' I.R. 71 Sta. 499+00

270' Sta. 495+00

Ramp "E" Curve Data
Δ = 29° 17' 39"
D = 5° 00'
R = 1145.92'
L = 585.88'

S 09° 52' 13" W 392.47' Proposed R/W Fence Type "D"

Intermediate Anchor Post Assembly
48' Rt Ramp "E" Sta. 31+37.70

392.47' I.R. 71 Sta. 492+79.21
740.99' SR 200 Sta. 380+02.84

Ramp "E" Curve Data
Δ = 40° 26' 25"
D = 5° 15'
R = 1348.14'
L = 951.54'

S 09° 15' 11" E 228.83'

R.C. Sta. 31+01.52

543.33' I.R. 71 Sta. 491+07.59
564.80' SR 200 387+49.83

Ramp "E"

Intermediate Anchor Post Assembly
46' Rt Ramp "E" Sta. 28+00

S 48° 41' 12" E 181.97'

494.24' Sta. 389+08.76

S 29° 21' 44" E 282.89'

Intermediate Anchor Post
Assembly 48' Rt Ramp "E" Sta. 27+00

Construction Limits

Ramp "F"

150' I.R. 71 Sta. 490+00

Wooded

102 WL

Franklin Development Co., Ltd.
Total 66.826 Ac.
acc. IR 71 18.550 Ac.
acc. SR 104 0.383 Ac.
Net 47.895 Ac.

Wooded

"I" C-D Road

West Bound S.R. 200

150' Sta. 485+50

S 55° 51' 01" E

484 485 486 487 488 489 490 491 492 493 494 495

Match to Sheet No. 324

Completion Date	4-26-82	Scale 1" = 50'
Mark	Date	Description
	12-7-82	

I-71 "B" R/W PLANS - Sta. 485+00 to Sta. 495+00

Jackson Township
V.M.S. #6643, 6641, & 476

LIMITED ACCESS

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.84

322
333

Ramp "A" Curve Data
Δ = 18°-56'-51"
D = 3°-00'
R = 1909.86
L = 632.70'

Ramp "A" Curve Data
Δ = 7°-24'-04"
D = 1°-00'-00"
R = 5729.58
L = 740.10'

Ramp "E" Curve Data
Δ = 29°-17'-39"
D = 5°-00'
R = 1145.91'
L = 585.88'

Ramp "E" Curve Data
Δ = 0°-35'-31"
D = 0°-30'
R = 11459.16'
L = 118.39'

Ramp "E" Spiral Data
θs = 6°-15'-00"
Ls = 250.00'
P = 2.27'
K = 124.95'
Xc = 249.70'
Yc = 9.08'

John D. Dyer & Anna Dyer
Total = 4.402 acres
Occ. I.R. 71 = 2.90 acres
Net = 1.502

Franklin Development Co., Ltd.
Total = 66.628 acres
Occ. I.R. 71 = 18.550 acres
Occ. S.R. 104 = 0.383 acres
Net = 47.695 acres

Paul Cracker

Intermediate Anchor Post Assembly 48' Rt. Ramp "A" Sta. 11+00
Intermediate Anchor Post Assembly 73.39 Rt. Ramp "A" Sta. 7+50
Intermediate Anchor Post Assembly 68' Rt. Ramp "A" Sta 4+00
Intermediate Anchor Post Assembly 101.22 Rt. Ramp "E" Sta 38+15.70
Intermediate Anchor Post Assembly 78' Rt. Ramp "E" Sta. 42+00
Intermediate Anchor Post Assembly 78 Rt. Ramp "E" Sta 48+00
Intermediate Anchor Post Assembly 268' Rt. I.R. 71 Sta. 495+00

Match to Sheet No. 321
Match to Sheet No. 323

Proposed R/W Line
Proposed R/W Fence Type "D"
Existing L/A R/W.
Existing R/W.
Existing South Bound I. R. 71
Existing North Bound I. R. 71
Existing L/A R/W.
Construction Limits
"J" C-D Road
Ramp "A"
Ramp "E"
Connect to Exist. I.R. 71 R/W Fence
L/A Proposed R/W Line

N 58° 11' 55" E 31.83'
N 56° 51' 06" E 358.92'
N 44° 38' 38" E 687.90'
S 77° 05' 50" E 304.36'
N 37° 53' 18" E 878.08'
S 34° 43' 26" W 1509.00'
S 32° 29' 35" W 711.76'
S 39° 55' 04" W 598.26'
N 37° 53' 18" E

V.M.S. #6643 S 34° 47' 21" W 327.39'
V.M.S. #476 329.0'

P.C.C. Sta. 10+86.10
P.C.C. Sta. 7+60.10
P.C. Sta. 44+37.43
P.T. Sta. 45+15.82
C.S. Sta. 36+87.18
S.T. Sta. 39+37.18

Completion Date 4-26-62 Scale: 1"=50'

Rev.	Date	Description
	11-7-62	

Jackson Township
V.M.S. #6643, 6641, & 476

I-71 R/W PLANS-Sta. 495+00 to Sta. 509+00

Jackson Township
V.M.S. # 426, 4041 ℄ 9264

LIMITED ACCESS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

323
331

Carma and Stella Sexton

100E
W.L.

John D. Dyer & Anna Dyer
Total = 4.402 acres
Occ I.R.71 = 2.90 acres
Net = 1.502 acres

END WORK
STA. 518+80

150
I.R.71 Sta. 512+08.3

Existing L.A. R/W

S56°56'07"E
61.89'

184.8
Sta. 512+32.2

S34° 43' 28"W
1309.06'

V.M.S. # 4041
V.M.S. # 426

N.34° 54' 35" E.
754.38

184.8
Sta. 519+69.8

V.M.S. # 4041
V.M.S. # 9264

V.M.S. # 9264
V.M.S. # 426

Existing South Bound I-71

510 511 512 513 514 515 516 517 518 519 520 521

℄ Survey

FRA-82-7.29 (I.R.71)

N.37° 55' 16" E.

Existing North Bound I-71

89 90 91 92 Ramp "E" 93 94 95 96 97 98

Construction Limits

Proposed R/W Fence Type "D"

Connect to Existing I.R. 71 R/W Fence

S37° 33' 10"W
900'

S39° 58' 43"W

End Ramp "E" Sta. 95+60
I.R. 71 Sta. 516+80.00

948.33'

S78° 40' 38" E.
365.14'

S34° 37' 45"W
234.90'

L/A Proposed R/W Line

150'
I.R. 71 Sta. 511+00

Intermediate Anchor Post Assembly
89' Rt. Ramp "E" Sta. 58+30

150'
I.R. 71 Sta. 516+00

Existing L.A. R/W

170'
I.R. 71 Sta. 521+48

Ralph Dill

Match to Sheet No. 322
Match Line Sta. 508+00

End Sheet No. 322
Sta. 522+00

102
W.L.

Franklin Development Co., Ltd.
Total 66.828 Ac.
acc. IR 71 18.550 Ac.
acc SR 104 0.383 Ac.
Net 47.895 Ac.

Jackson Township
V.M.S. # 426, 4041 ℄ 9264

Completion Date 4-26-62		Scale 1" = 50'
Rev.	Date	Description
	11-2-62	

I-71 R/W PLANS - Sta. 509+00 to Sta. 522+00

Jackson Township
V.M.S.#426 & 469

LIMITED ACCESS

Dist.	Div.	Rev. Division			
	2	OHIO			

FRANKLIN COUNTY
FRA-200-8.84

324
333

Ramp "E" Curve Data
Δ = 40°26'25"
D = 4°16'
R = 1345.14'
L = 951.54'

Ramp "E" Curve Data
Δ = 15°29'34"
D = 3°00'
R = 1909.86'
L = 449.76'

Ramp "E" Curve Data
Δ = 1°30'14"
D = 1°00'
R = 5729.58'
L = 150.39'

Intermediate Anchor Post Assembly 78' Rt
Ramp "E" Sta 24+00
399.50 SR 200 Sta 391+55.40

S 29° 21' 44" E
282.80

S 35° 02' 20" E
235.04

Intermediate Anchor Post Assembly 78' Rt
Ramp "E" Sta 21+49.76
243.90 SR 200 Sta 393+77.89

Construction Limits

S 39° 21' 41" E
241.37

P.C.C. Sta 21+49.76

Ramp "E"

I. C. D Road

West Bound S.R. 200

℄ Survey S.R. 200 (1961)

S 55° 51' 07" E

East Bound S.R. 200

Match to Sheet № 3/7

Match to Sheet № 3/8

102 WL
Franklin Development Co., Ltd.

Intermediate Anchor Post Assembly
181+43 Lt SR 200 Sta 399+11.48
169.15 SR 200 Sta 399+11.48

End Post Assembly
171' Lt. SR 200 Sta. 401+80

S 52° 59' 13" E
538.58

Proposed ℄/W Fence-type "D"

Franklin Development Co., Ltd.

P.T. Sta 14+85.33

P.C. Sta 17+00.00 "E"
395+01.84 SR 200-115 Lt.

End Post Assembly
165' Lt. SR 200 Sta. 402+40

SR 200 Sta 403+00

225'
SR 200 Sta 401+30

175'
SR 200 Sta 401+80

102 X

0.717 Ac.

S 49° 45' 50" E
350.80

P.C. Sta 13+34.93

S 51° 10' 55" E

Stream Crossing Type 2 See Std. Dwg. F-2

Proposed Culvert

150
SR 200 Sta 405+00

Match to Sheet № 3/6

Ramp "A"

Ramp "A" 55

Brown's Run

P.C.C. 57+19.24 End "H"
Sta 54+21.51 Ramp "A"

C.S. Sta. 55+27.24

S.T. Sta. 57+17.24 "A"
400+00 S.R. 200-101 Rt.

Ramp "H"

Ramp "H" Curve Data
Δ = 23°50'55"
D = 4°30'
R = 1273.24'
L = 519.97'

Intermediate Anchor Post Assembly
138.55 Rt. Ramp "H" Sta. 33+70

Intermediate Anchor Post Assembly
85' Rt. Ramp "A" Sta 30+60

N 36° 51' 06" W
72.58

463.89' at SR 200
Sta. 391+47.01

Proposed Woodland Farm Park Addition
Connection of Cabin Road (Private) and
Thrailkill Road (Private)

Proposed ℄/W Fence Type "D"

Intermediate Anchor Post Assembly
(Assembly 116 Rt. Ramp "A"
Sta 34+27.51)

144'
SR 200 Sta 397+16.00

N 24° 56' 10" W
610.33

Ramp "A" Curve Data
Δ = 21°54'26"
D = 4°00'
R = 1432.39'
L = 547.76'
Ls = 100.00'
Θs = 2°00'
k = 99.98'
P = 1.16'

N 53° 56' 42" W
385.32

N 63° 08' 43" W
407.92

Intermediate Anchor Post Assembly 140 Rt. SR 200 Sta 405+00

Intermediate Anchor Post Assembly 228 Rt. S.R. 200 Sta 404+00

102 WL
Franklin Development Co, Ltd.

Total = 64828 acres
Occ. LR 71 = 18.950 acres
Occ. SR 104 = 0.383 acres
Net = 47.095 acres

Jackson Township
V.M.S.#426 & 469

Thrailkill Road - See Location Plan

V.M.S.#469

Completion Date 4-26-62 Scale: 1" = 50'		
Rev.	Date	Description
	11-7-62	

S.R. 200 R/W PLANS - Sta. 390+00 to Sta. 405+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

326
333

LIMITED ACCESS

FRANKLIN COUNTY
FRA-200-8.04

Jackson Township
V.M.S. * 426 ℄ 469

Match Line to Sheet No. 324

Riding Academy

Franklin Development Co., Ltd.
Wooded & Pasture

American Aggregates Corp.

102 WL

102 X
0.717 Acres

Intermediate Anchor Post Assembly 148' Lt. Sta. 407+49

Intermediate Anchor Post Assembly 148' Lt. Sta. 413+49

Intermediate Anchor Post Assembly 148' Lt. Sta. 405+00

Intermediate Anchor Post Assembly 148' Lt. Sta. 411+00

Intermediate Anchor Post Assembly 148' Lt. Sta. 417+00

S 55° 51' 07" E 1,427.37'

Proposed ℄W Fence Type "D"

L.A. ℄/W

Construction Limits

Camp "E"

Camp "A"

Bridle Path

Proposed Culvert

Abut. Connection

Structure No. FRA 200 0664

Existing S.R. 104

Construction Limits

See Sht. No. 327 for ℄/W Details

S.R. 104 Sta. 419+21.93

S.R. 200 Sta. 419+22.37

S.R. 104 Sta. 419+48.65

S.R. 104 50.00
S.R. 200 420+36.42

N 33° 51' 07" W 1845.47'

Total = 0.730 Ac.
Occ. = 0.371 Ac.
Net = 0.305 Ac.

* See Std. Dwg. F-2

Riding Academy

Franklin Development Co., Ltd.
Total = 66.828 acres
Occ. ℄ 27 = 18.550 acres
Occ. S.R. 104 = 0.383 acres
Net = 47.895 acres

Completion Date	4-26-62	Scale: 1" = 200'
Rev.	Date	Description
	11-7-62	

S 54° 57' 43" E

V.M.S. * 426
V.M.S. * 469

℄

Thrailkill Road - See Location Plan

Jackson Township
V.M.S. * 426 ℄ 469

S.R. 200 ℄/W PLANS - Sta. 405+00 to Sta. 421+50

LIMITED ACCESS

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

326
333

FRANKLIN COUNTY
FRA-200-8.04

Jackson Township
V.M.S. # 420 & # 409

(107) Julius R. & Barbara M. Brant
Total = 1.030 Ac.
Occ = 0.691 Ac.
Net = 0.339 Ac.

W. Griffith Carlisle

Franklin Development Co. Ltd.
Total = 0.736 Ac.
Occ = 0.371 Ac.
Net = 0.365 Ac.

Franklin Development Co. Ltd.

Julius R. & Barbara M. Brant 0.018 Ac.
Total = 0.814 Ac.
Occ = 0.461 Ac.
Net = 0.153 Ac.

American Aggregates Corporation
Total = 0.531 Ac.
Occ = 0.234 Ac.
Net = 0.317 Ac.

American Aggregates Corporation

Columbus & Southern Ohio Electric Co. 9-Aerial Lines

Ohio Bell Telephone Co. 1-Aerial Cable

Exist. Channel Easement for FRA-104-2.73-7.64

Proposed Culvert

Reconstruct Private Drive

Reconstruct Private Road

Trailkill Road

Gravel Drive

Dirt Drive

Begin Work Sta. 38+00

End Work

Const. Limits

Exist. R/W

Exist. 12" C.M.P.

Ex. 12" V.C.P.

Ex. 12" Conc. Pipe

Ex. 18" R.C.P.

Ex. Stone E.W.

Exist. Bridge Path

Abut. Connection

Proposed R/W Fence Type 'B'

Corn Crib

Fr. Barn

1 Sty. Fr. Res.

1 Sty. Stucco Res.

Gar.

Shed Ruins

Res. Ruins

Conc. Blk. Found.

Fr. Shed

Fr. Barn

Sta. 42+08.9

Sta. 43+58.55

Sta. 44+55.46 (1961 Survey)

Sta. 48+14.55

Sta. 46+17.18

Sta. 45+91.75

Sta. 38+78.9

Sta. 35+08.9

Sta. 48+08.9

0.022 Ac.

0.21 Ac.

0.049 Ac.

0.076 Ac.

0.332 Ac.

0.117 Ac.

0.018 Ac.

S.R. 104 Sta. 35+08.9

S.R. 104 Sta. 38+78.9

S.R. 104 Sta. 48+08.9

S.R. 200 Sta. 410+90.36

FRA-200-0894

Sheet No. 325 & 327 for S.R. 200

JACKSON TOWNSHIP
V.M.S. #426 & 409

Completion Date 4-26-62		Scale: 1"=50'
Rev.	Date	Description

S.R. 104 R/W PLANS - Sta. 35+00 to Sta. 50+00

JACKSON TOWNSHIP
V.M.S # 426

FED. RD. DIVISION	STATE	PROJECT	
2	OH		

FRANKLIN COUNTY
FRA-200-8.04

LIMITED ACCESS

Note: For S.R. 200 LA Proposed R/W Details, See Sheet No. 325 & 328

Proposed R/W fence Type 'D'

Franklin Development Co., Ltd.
Total 2.541 Ac.
Occ. 1.246 Ac.
Net 1.295 Ac.

Franklin Development Co., Ltd.
Area = 0.150 Ac.

Reconstruct Private Drive Sta 55+95 12' Lt.

Reconstruct Private Drive Sta. 60+53 12' Lt.

Franklin Development Co, Ltd.
0.95 Ac.

BROWN's Run

Franklin Development Co., Ltd.

Ho. Trailer

FRA 200-08947

Exist. R/W

Ex. 10" Vit. Clay Ex. C.B.

Ex. 10" V.C.P.

N.00°07'50E Abut. Connection

P.C. Sta. 52+09.736

R=5699.58

D=1°00'

P.T. Sta. 59+05.847

℄ Survey 1961 S.R. 104

℄ Shoulder Abandon Exist. Culvert Sta. 56+48

Gravel Dr.

Franklin Development Co, Ltd.
0.093 Ac.

2 Story Frame

Columbus & Southern Ohio Elect Co. - 9 Aerial Lines

310.01'
N.08° 00' 57" E

Construction Limits

494.15'
N 7°05' 30" E

Exist. R/W

℄ Ohio Bell Tel. Co. Aerial Cable

Exist S.R. 104

702.10'
S 04° 02' 42" W

S.R. 200
Sta 51+85.45
S.R. 104

Construction Limits

515.96'
S 00° 21' 47" E

American Aggregates Corp.
Total 21.008 Ac.
Occ. .255 Ac.
Net 20.755 Ac.

American Aggregates Corp.
Total 2.170 Ac.
Occ. 0.910 Ac.
Net 1.260 Ac.

S.R. 104 Curve Data
Δ = 6°-51'-48"
D = 1°-00'
R = 5729.65'
L = 696.11'

American Aggregates Corp.
1.277 Acres

Franklin Development Co., Ltd.
0.230 Ac.

Ex. twin 7.6" V.C.P.

Ex. 7.6" V.C.P.

Exist. Ditch

Match Line Sta 6+00

Sta. 66+00 ℄ S.R. 104 - Sta. 10+00 ℄ Culvert

P.C. Sta. 66+86.59

N.08 56 26 E
118.04'

American Aggregates Corp.
0.942 Acres

Exist. Ditch

Scioto Big Run

Completion Date 4-26-62 Scale: 1"=50'

Rev.	Date	Description

JACKSON TOWNSHIP
VMS # 426

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

328
333

Jackson Township
VMS# 426 & 468

Field

American Aggregates Corp
Total = 21.008 acres
Occ. = 0.255 acres
Net = 20.753 acres

Scattered Trees & Brush

Scattered Trees & Brush

Drain

385'
Sta 424+85

285'
Sta 422+95

108 -X 1.217 Ac.

190'
Sta 421+00

190'
Sta 423+70

190'
Sta 426+90

190'
Sta 430+00

108 WL

Construction Limits ℄ LA

Corner Post Assembly
148' Lt. SR 200 Sta 424+15

Corner Post Assembly
85' Lt. Sta. 424+05

Abut. Conn.

SCIOTO

S 38° 53' W

P.C. 49+42.90

Abut. Conn.

Corner Post Assembly
85' Lt.
Sta. 426+95

EXISTING LEVEE

Proposed R/W Fence Type "D"

Corner Post Assembly
148' Lt SR 200 Sta 425+95

Intermediate Anchor Post Assembly
148' Lt SR 200 Sta 430+30

S 53° 51' 07" E
3,172.21'

Constr. Limits ℄ LA

See Sheet No. 329 for Continuation

Stream Crossing
Type 2 See Std. Dwg. 5-2
Proposed Culvert

Proposed Channel Curve Data
Δ = 53° 00' Lt.
Dc = 11° 00'
R = 520.87'
Lc = 481.82
T = 259.70
E = 61.15

Structure N° F.R.A - 200 - 0904 Lt. ℄ St.

425

430

S 53° 51' 07" E

℄ Survey S.R. 200

435

Match Line to Sheet No. 325
Begin Sheet Sta. 421+00

Sta. 426+04 ℄ Survey
Sta. 50+00 ℄ Channel

Abutment Connection

Intermediate Anchor Post Assembly
110' Rt. Sta. 429+30

Top of New Levee

End Sheet at Sta. 436+00
Match Line to Sheet No. 329

Sta. 48+45.35
S 0° 07' 50" W
150
Sta. 421+45.47

S 00° 07' 50" E
520.9'

Ruins

Abut. Connection

Abut. Connection Const. Limits Proposed R/W Fence - Type D

Corner Post Assembly
148' Rt. SR 200 Sta. 425+40

N 53° 51' 07" W 429.93'

N 59° 53' 46" W
427.37'

105'
Sta. 430+00

L A

N 90° 00' 00" W
701.70'

PT 54+24.72

Intermediate Anchor Post Assembly - 103' Rt
Sta. 430+00

139.07'
Sta. 435+30

Ruins

Ruins

150'
Sta. 425+75

P.I. Sta 52+02.80

℄ Proposed Channel Relocation

55

S 49° 21' 07" E

200'
Var. 433+30

220'
60' Sta 435+30

108 WA

108 WL

102
0.736 Ac.
0.371 Occ.
0.365 Net Ac.
Franklin Development Co, Ltd.

102 WA 0.076 Ac.

108
0.551 Ac.
0.234 Occ.
0.317 Net Ac.

22'

46' S.R. 104

2 Story Fr. House

108 WA 0.117 Ac.

Field

300'
Sta. 428+00

330'
Sta. 432+35

108 A-L
3.441 Ac.

American Aggregates Corp.

101D WA 0.049 Ac.

Thrailkill Rd.

H. Griffith
Carlisle

101D 0.149 Ac.
0.038 Occ.
0.111 Net Ac.

Julius R. & Barbara M. Brant
1.030 Ac.
0.691 Occ.
0.339 Net Ac.

107

See Sheet No. 326 for S.R. 104 R/W Details

S 34° 32' 29" E

VMS# 426
VMS# 468

3000 (Deed)

S 55° 00' E

Julius R. & Barbara M. Brant

Completion Date 4-26-62 Scale 1"=50'		
Rev.	Date	Description
	11-7-62	

Jackson Township
V.M.S.# 426 & 468

S.R. 200 R/W PLANS - Sta. 421+00 to Sta. 436+00

Jackson Township
V.M.S. # 426 ℄ # 468

LIMITED ACCESS

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

329
333

FRANKLIN COUNTY
FRA-208-8.04

Gravel Quarry

108 WL

American Aggregates Corp.
Total = 21.008 acres
Acc. = 0.253 acres
Net = 20.755 acres.

190' Sta. 436+00

L.A. R/W ± 2'

Intermediate Anchor Post Assembly 148 Lt SR.208 Sta. 439+40

Proposed R/W Fence-Type "D"

S 55° 51' 07" E 3,172.216'

Constr. Limits

± 2'

Intermediate Anchor Post Assembly 148 Lt SR.208 Sta. 446+00

150' Sta. 447+30

Match Line Sta. 447+30 Match to Sheet N° 330

Match to Sheet N° 329 Match Line to Sta. 436+00

437 438 439 440 S 55° 51' 07" E 441 442 443 444 445 446 447

℄ Survey S.R.208 (1961)

Match Line Sta. 448+00 Match to Sheet N° 331

Intermediate Anchor Post Assembly 138' Rt. Sta. 436+00

Intermediate Anchor Post Assembly 148' Rt. Sta. 437+00

Intermediate Anchor Post Assembly 148' Rt. Sta. 443+00

108A WA 1.617 Ac.

Constr. Limits

Proposed R/W Fence-Type "D"

N 90°-20'-29" W 101.70'

N 55° 51' 07" W 1453.88'

140' Sta. 436+00

140' Sta. 437+00

EP Sta. 443+00

Existing Levee

Sciato Big Run Relocation

Existing Levee

American Aggregates Corp.
V.M.S. # 428
V.M.S. # 468

S 34° 52' 25" E

Julius R. & Barbara M. Grant

Jackson Township
V.M.S. # 426 ℄ # 468

Completion Date 4-26-62		Scale 1"=50'
Rev.	Date	Description
	11-7-62	

S.R. 208 R/W Plan Sta. 436+00 to Sta. 448+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

330
333

FRANKLIN COUNTY
FRA-200-8.04

Jackson Township
V.M.S.# 426

975.68
Sta. 450+84.86

1010'
451+60.12 S.R.200

300'
Sta. 447+80

898.97'
Sta. 448+61.26

896.999'
Sta. 449+03.294

PC

Δ 9° 34' 30" W

100'

108C

American Aggregates Corp.
Gravel Quarry

S 25° 26 W 373'

SCIOTO

RIVER

Columbus Corp. Limits
Jackson TWP.

Scioto River East Meander Line

S 0° 51' 07" E

Bottom of Proposed Channel

P.C.

Cultivated

S 89° 10' 30" E

Completion Date 4-26-62 Scale 1"=30'

Rev	Date	Description
	11-7-62	

℄ Survey S.R. 200 Curve Data
Pt. Sta. 452+53.27
Δ = 32° 28' 00"
D = 03° 30' 00"
R = 1,639.156'
L = 6493.778'
E = 475.91'

Hamilton Township
T4 R22W
Section 17

Samuel B. Hartman Estate

340'
456+65 S.R.200

Columbus Corp. Limits
Hamilton T.W.P.

Proposed Channel Curve Data
Δ = 27°00
Dc = 3° 30'
R = 1637.02'

P.I. 908.19'
Sta. 445+47.89

Existing Levee

108C
3.224 Ac.

Bottom of Proposed Channel

Proposed Channel Curve Data
Δ = 12°
D = 3°
R = 1909.85'

P.I. 908.82'
Sta. 455+83.83

190'
Sta. 450+09.586

190'
Sta. 450+09.19

190'
Sta. 455+03

190'
Sta. 455+02.5

190'
Sta. 458+57.68

190'
460+05 S.R.200

Intermediate Anchor Post Assembly 148' Lt. 459+00

S 63° 51' 07" E 397.0'

End Post Assembly 148' Lt. 457+40

S 63° 51' 07" E

190'
Sta. 459+00

S 84° 53' 53" E 125.05'

115'
Sta. 460+00

Intermediate Anchor Post Assembly 113' Lt. 460+00

L.A. R/W

R=11344.156'

109
7.503 Ac.
Intermediate Anchor Post Assembly 108' Lt. 463+00

Type 'D' R/W Fence

Match Line - Sta. 464+00

S 10° 12' 43" W 329.98'

Structure No.
FRA - 200 - 0952 Lt. & Rt.

Island

S 11° 00' 55" W

Sta. 456+72

Sta. 455+40

Sta. 457+27.63

Sta. 490+69.93

End Post Assembly 148' Lt. 52.200 Sta. 449+00

108
WL

Normal Limit

3,172.2 Ac

PT

L.A. Westbound Lane

℄ Survey - S.R. 200 (1961)

Match to Sheet No 331

Jackson Township V.M.S.# 426

Hamilton Township T4N - R22W Section 17

S.R. 200 R/W PLANS - Sta. 448+00 to Sta. 464+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-200-8.04

Jackson Township
V.M.S. # 420

Hamilton Township
T4N R22W
Sec. 17

Columbus Corp. Limit

Match to Sheet N° 330

Match To Sheet N° 329
Match Line - Sta. 448+00

Sta. 450+83.93

Sta. 451+72

℄ Survey - S.R. 200 (1961)

455+40 S.R. 200

457+27.93

Rt. Sta. 459+16.61

460 ℄ Survey

Curve Data
P.I. Sta. 492+93.27
Δ = 32° 28' 08" L = 6493.178'
D = 00° 30' 00" E = 475.91'
R = 11,459.156'

Samuel B. Hartman Estate

℄ Eastbound Lane

End Post Assembly
118' Rt. 458+20

Intermediate Anchor Post Assembly 118' Rt. 459+16.61

Type "D" R/W Fence

L.A. R/W

10.262 Ac.
Samuel B. Hartman Estate

℄ Proposed 10' Special Ditch

Match Line - Sta. 464+00

American Aggregates Corp.
End Post Assembly - 148' Rt.
Sta. 449+00

Constr. Limits

Proposed R/W Fence - Type D

Existing Levee

Gravel Quarry

Scioto Big Run Relocation

Existing Levee

1.634 Ac.

Julius R. & Barbara M. Brant
2.757 Ac.

Cultivated

Bottom of proposed channel 2

Structure No. FRA 200 - 0892 Lt. ℄ Rt.

Island

SCIOTO RIVER

Jackson Township / Hamilton Township

Scioto River West Meander Line 2

Scioto River East Meander Line

Bottom of Proposed Channel

P.C. 80
Sta. 457+04.93

P.I.
229.00'
Sta. 458+31.84

P.T.

Proposed Channel Curve Data
Δ = 26° 00'
D = 8° 00'
R = 716.20'

Cultivated

Section Line

Hartman Farms Ditch

Section 17
Section 20

770'
458+95 S.R. 200

825'
458+21.46 S.R. 200

Jackson Township
V.M.S. # 469

Hamilton Township
T4N R22W
Section 20

Completion Date		4-26-62	Scale 1"=50'
Rev.	Date	Description	
	11-7-64		

S.R. 200 R/W PLANS - Sta. 448+00 to Sta. 464+00 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA -200 - 18.04

352
333

Jackson Township
V.M.S. #4641 & 6839

Begin Sheet Sta. 334 + 00

Lawrence W. & Dorothy E. Hoffman

Bay Jackson & Delores Jackson

Fred C. Kiser, Jr. (Fee Owner)
Joseph LeRoy Peters &
Rebecca Alice Peters
(Land Contract Owners)

Kenneth E. & Laura J. Bowers

Marsh Run

Lewis M. & Elaine C. Gregowalt

Stella C. Stagler (F.E. & B.)

Wilbur R. Foy & Freda W. Foy

Calvin V. Roberts (F.E. & B.)

John & Clara Ehrlich (F.E. & B.)

Virginia E. Schwindt

Abandoned Foundation

End Sheet Sta. 350 + 00

Survey Sta. 338 + 22.26

0.0° 30'

340 ℄ Survey S.R. 200

N 11° 38' 15" E 30.002

N 79° 35' 38" W 156.08

N 77° 46' 16" W 700.00'

N 64° 03' 06" W 277.28'

N 79° 15' 32" W 380.15'

Const. Limits

℄ Roadway

℄ Survey

℄ Mariane Drive

R/W

Shed

1-S Stucco

1½ S Fr. Res.

2½ S Fr. Res.

1.112 acres
77A

0.029 acres
1206 sq. ft.

0.009 sq. ft.
0.019 acres

800 sq. ft.
0.019 acres

0.034 acres
1500 sq. ft.

John F. Haag Jr.
4.102 acres

0.048 acres
2120 sq. ft.

0.039 acres
1709 sq. ft.

0.102 Ac.

Curve Data ℄ Roadway ℄ Survey

℄ Roadway	℄ Survey
Δ = 23° 29' 09"	Δ = 23° 55' 09"
D = 15° 00'	D = 15° 00'
R = 381.97'	R = 381.97'
T = 80.81'	T = 80.81'
L = 159.46'	L = 159.49'
PC = 24+48.67	PC = 24+73.33
PT = 26+08.13	PT = 26+32.78

Curve Data ℄ S.R. 200

P.I. = 338+22.26
Δ = 21° 55' 51"
D = 00° 30' 00"
E = 213.110'
L = 4380.17'
T = 220.20'
R = 11458.19'
S = 0.0150 ft./ft. Width

Completion Date		Scale: 1" = 50'
Rev.	Date	Description

Jackson Township
V.M.S. #4641, 6839 & 8231

Mariane Drive R/W Plans Sta 10+00 to 25+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

333
339

FRANKLIN COUNTY
FRA 200-8-04

Sta. 390+00 Begin Sheet

Sta. 396+00 End Sheet

Edwin L. & Verna S. Kamp (P.E.R.B.)

Josephine M. & Helen G. Gantz (P.E.R.B.)

John E.R. & Goldie Marie Bauman (P.E.R.B.)

Ralph E. & Dorothy A. Eyderson

Oudo A Blevins

Earl & Francis Rutherford

Jesse & Parmelin Spicer

James Centers

Joseph & Margaret Ewing (P.E.R.B.)

Sterling B. Keasey

Virginia Schwindt 0.102 Ac.

John F. Haag Jr. 4.381 acres

John F. Haag, Jr. 4.102 acres

John F. Haag, Jr. 4.168 acres

0.028 acres 1200 sq. ft.

Marie Ball (P.E.R.B.)

Carl L. & Elizabeth A. Alford (P.E.R.B.)

James Barnhouse (P.E.R.B.)

1.112 acres

Jackson Township
T.I.D. #4641, 6843, & 8251

Future Const. Limits L/A R/W

Const. Limits

Survey

Marlane Drive

Roadway Sta. 37+11.81

Survey Sta. 37+05.44

Roadway Sta. 37+01.97

Survey P.T. Sta. 37+05.44

Survey P.C. Sta. 38+05.82

Survey Sta. 38+12.66 Ahead
Roadway Sta. 38+12.19 Back

Survey P.T. Sta. 38+05.82

Survey Sta. 39+11.11 Ahead
Roadway Sta. 39+10.65 Back

Survey Sta. 39+05.11

Survey Sta. 41+71.12

Existing 10' Drive to W.H.N.I.

Curve Data Marlane Drive

℄ Roadway	℄ Survey
Δ = 23° 59' 09"	Δ = 23° 59' 09"
D = 15° 00'	D = 15° 00'
R = 381.97'	R = 381.97'
T = 80.91'	T = 80.91'
L = 159.48	L = 159.48
P.C. = 24+48.07	P.C. = 24+73.55
P.T. = 26+08.13	P.T. = 26+33.78

Curve Data ℄ S.R. 200

P.I. = 358+22.28	L = 4386.17
Δ = 21° 55' 51"	T = 220.26
D = 00° 30' 00"	R = 11458.19
C = 215.110'	S = 0.0150 Ft/Ft. Width

Curve Data Marlane Drive

℄ Roadway	℄ Survey
Δ = 97° 30' 50"	Δ = 97° 30' 50"
D = 97° 17' 45"	D = 97° 17' 45"
R = 100'	R = 100'
T = 64.66'	T = 64.66'
L = 100.38'	L = 100.38'
P.C. = 37+11.81	P.C. = 37+05.44
P.T. = 38+12.18	P.T. = 38+05.82

See Change Order

Completion Date	Scale: 1" = 50'
Rev.	Date	Description

Marlane Drive R/W Plans Sta. 25+00 to 41+75.22

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 1630 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 and/or stone fragments	A-1-a(0)	A-1-a	66	19	7	- 8 -		NP	NP	13	74
Gravel and/or stone fragments with sand	A-1-b(0)	A-1-b	39	31	16	-14 -		28	1	19	480
Fine sand	A-3(0)	A-3	2	19	71	- 8 -		NP	NP	26	10
Coarse and fine sand	-----	A-3a	6	23	50	-21 -		NP	NP	21	196
Gravel and/or stone fragments with sand and silt	A-2-4(0)	A-2-4	48	15	13	18	13	23	4	15	80
Gravel with sand, silt and clay	A-2-6(0)	A-2-6	56	10	8	14	12	31	13	16	11
Sandy silt	A-4(4)	A-4a	15	10	21	32	22	24	5	16	352
Silt	A-4(8)	A-4b	1	1	10	71	17	30	1	22	172
Elastic silt and clay without organic material unless otherwise noted	A-5(10)	A-5	6	7	18	36	33	66	4	59	9
Silt and clay	A-6(9)	A-6a	6	6	12	37	39	34	12	22	194
Silty clay	A-6(11)	A-6b	4	4	12	40	40	37	17	26	49
Elastic clay without organic material unless otherwise noted	A-7-5(20)	A-7-5	1	4	8	39	48	89	38	62	120
Clay	A-7-6(15)	A-7-6	1	3	7	39	50	48	23	35	107
Fibrous Peat			VISUAL CLASSIFICATION								9
Fine-Textured Peat			VISUAL CLASSIFICATION								69
Loamy Peat			VISUAL CLASSIFICATION								8
Marly Sedimentary Peat			VISUAL CLASSIFICATION								32
Sedimentary Peat			VISUAL CLASSIFICATION								54
Compact Peat			VISUAL CLASSIFICATION								4
Various other materials			VISUAL CLASSIFICATION								

Sod and/or Topsoil "X"= Approximate depth.

Rock material.

Auger boring - plan view.

Drive sample boring - plan view.

Auger boring plotted to vertical only.

Drive sample boring plotted to vertical scale only.

NOTE: Figures beside borings indicate water content in percent. e.g. 15

Number of blows for "Standard Penetration" test.
X=number of blows for the first 6 inches.
Y=number of blows for the second 6 inches.

Water content nearly equal to or greater than liquid limit.

Indicates a non-plastic material with high water content.

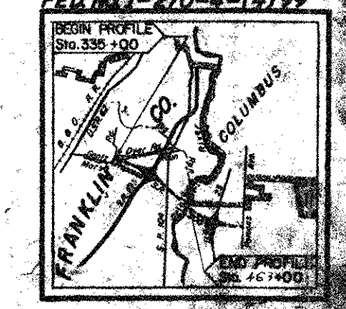
Free water.

Static water level.

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

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-270-4-(4)99



LOCATION MAP

Recom. - J.S.M. - 8/28/61
Drilling - Auger - L.M.D., J.R.G., J.R.S., B.D.L., J.M.M., A.J.R., T.R.S. - 7/28/61 to 8/25/61
Drafting - C.F.H., F.R.S., L.N.L., R.A.W., R.D.S., R.L.M., C.C.T., D.H.A., A.F., C.L.I. - 11/8/61

PROJECT INDEX

MAIN LINE	PLAN VIEW	PROFILE SHEET
Stas. 335+00 to 367+00	6	7
Stas. 367+00 to 399+00	6	8
Stas. 399+00 to 431+00	6	10
Stas. 431+00 to 463+00	9	11
Stas. 463+00 to 495+00		
Stas. 495+00 to 527+00		
Stas. 527+00 to 558+00		

INTERSECTING ROADS AND RAMPS

IR 71 INTERCHANGE

IR 71	6	12
RAMP "A"	619	13
RAMP "B"	6	15
RAMP "C"	6	14
RAMP "D"	6	16
RAMP "E"	619	16
RAMP "F"	6	15
RAMP "G"	6	15
RAMP "H"	6	16
SR 104	9	17

USR 23 INTERCHANGE - Not a Part of this Contract

USR 23		
RAMP "L"		
RAMP "M"		
RAMP "N"		
RAMP "O"		
RAMP "P"		
RAMP "Q"		
RAMP "R"		
RAMP "S"		

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS OHIO

2
17

GENERAL INFORMATION

INTRODUCTION

The project consists of a section of the Columbus Outerbelt system, approximately 4 miles in length, beginning at approximately 4800 feet west of Existing IR 71, at Gantz Road, extending in an southeasterly direction, and terminating approximately 200 feet east of Parsons Avenue. Also included in this report are the profiles of the associated ramps of the major interchanges at IR 71 ~~and Existing USR 23~~, and SR 104.

The proposed grades indicate the following:

Mainline - cuts, ranging between 0 and 22 feet in depth, and fill embankments, ranging between 0 and 28 feet in height.

IR 71 Interchange

Ramp A - cuts, ranging between 0 and 20 feet in depth, and fill embankments, ranging between 0 and 21 feet in height.

Ramp B - cut, ranging between 0 and 18 feet in depth, and fill embankment, ranging between 0 and 3 feet in height.

Ramp C - Cut, ranging between 0 and 16 feet in depth, and fill embankment, ranging between 0 and 3 feet in height.

Ramp D - cut, ranging between 0 and 21 feet in depth, and fill embankment, ranging between 0 and 37 feet in height.

Ramp E - cut, ranging between 0 and 21 feet in depth, and fill embankment, ranging between 0 and 15 feet in height.

Ramp F - cuts, ranging between 0 and 20 feet in depth, and fill embankment, ranging between 0 and 4 feet in height.

Ramp G - cut, ranging between 0 and 18 feet in depth, and fill embankment, ranging between 0 and 27 feet in height.

Ramp H - cuts, ranging between 0 and 16 feet in depth, and fill embankments, ranging between 0 and 14 feet in height.

SR 104 - fill embankment, ranging between 0 and 23 feet in height.

USR 23 Interchange

Ramp L - fill embankment, ranging between 17 and 41 feet in height.

Ramp M - fill embankment, ranging between 2 and 21 feet in height.

Ramp N - fill embankment, ranging between 2 and 27 feet in height.

Ramp O - cut, ranging between 0 and 8 feet in depth, and fill embankment, ranging between 0 and 28 feet in height.

Ramp P - cut, ranging between 0 and 16 feet in depth, and fill embankment, ranging between 0 and 22 feet in height.

Ramp Q - fill embankment, ranging between 2 and 28 feet in height.

Ramp R - fill embankment, ranging between 2 and 37 feet in height.

Ramp S - cut, ranging between 0 and 4 feet in depth, and fill embankment, ranging between 0 and 10 feet in height.

Note, part of this Continued

GEOLOGY AND OBSERVATIONS OF THE PROJECT

The alignment traverses the gently dissected upland portion of the Mississippi Valley Plain, descends to the flood plain, crosses the Scioto River, and ascends and terminates on the uplands. Glacial and alluvial derived-soils are reported to be in excess of 80 feet deep, overlying limestone of the Delaware formation and shale of the Ohio and Olentangy formation, Devonian age. ~~It is noted that an area of poor surface drainage was observed in the vicinity of the proposed interchange with USR-23.~~

EXPLORATION

Exploratory roadway borings were made by means of truck-mounted mechanical earth auger and hand auger (in areas of difficult access), between July 22 and September 15, 1961. Also included in this report are logs of the drive sample-core borings made in conjunction with the structure foundation investigations.

INVESTIGATIONAL DISCLOSURES

Mainline, IR 71 Interchange (Ramps A, B, C, D, E, F, G, and H) and SR 104. Materials occurring immediately below proposed grade predominantly consist of gravels, sandy silts, and silt clays, in the A-1-a and A-2a classifications, having moisture contents in the lower portion of the plastic range. Frost susceptible silts were encountered within three feet of proposed grade at the following stations: Mainline - 342+00, 357+00, 361+00, 387+00, 391+00, 408+15, 411+00, 420+50, 491+00; Ramp A - 11+03, 13+05, 16+87, 38+00; Ramp D - 20+50; Ramp F - 24+50, 31+85; and Ramp H - 28+15.

~~The embankment foundation materials between stations 485+50 and 502+00, are comprised of 0 to 8 feet of very soft, highly compressible, low strength materials (peats and organic soils), generally underlain by gravels and sands. The remainder of the embankment foundation areas are largely comprised of unstratified gravels, sands, sandy silts and silt clays, in the A-1-b, A-2a, A-4 and A-6a classifications.~~

USR 23 Interchange

Ramp L

Between approximate stations 0+00 and 11+00, embankment foundation materials are comprised largely of generally wet sands, silts and clays, in the A-3a, A-4a and A-6 classifications. From approximate stations 11+00 to 22+00, embankment foundation materials are comprised of wet, highly compressible organic soils and peats, for the most part occurring at or near ground surface, and as deep as 11 feet, overlying gravels, in the A-1-b classification.

Ramp M

The embankment foundation materials consist of as much as 20 feet of wet, low strength, highly compressible peats and organic soils, extending beyond 50 feet left of centerline and at least 240 feet right of centerline, overlying gravels and sands, in the A-1-b and A-3a classifications.

Ramp N

Embankment foundation materials are predominantly comprised of 2 to 10 feet of soft, wet, highly compressible organic silts and clays, and peat deposits, encountered usually at-surface, however, between stations 7+00 and 8+50, and 10+00 and 11+50, the soft materials are overlain by the embankment of abandoned USR 23. The poor materials throughout the alignment are underlain by sands and gravels.

Note, part of this Continued

Ramp O and P

Materials occurring immediately below proposed grade and in the embankment foundation areas consist of gravels, sandy silts and silt clays, in the A-1-a, A-4a and A-6a classifications. Between stations 0+00 and 1+50, and 11+00 and 13+00, Ramp O, 2 to 6 feet of at-surface organic elastic clay, in the A-7-5 classification, and peat deposits were encountered. Frost susceptible silt was encountered at stations 3+80 and 8+00, Ramp O.

Ramp Q

Embankment foundation materials consist of wet, highly compressible, low strength peats and organic soils, occurring at ground surface and as deep as 8 feet below ground surface, underlain by wet sands and silts, in the A-3a and A-4b classification to a depth of 10 to 25 feet.

Ramp R

Embankment foundation materials between approximately stations 5+00 to 15+00, and 21+00 to 35+00, consist of gravels, wet sands and silts, in the A-1-b, A-3a and A-4 classifications. Between approximately stations 15+00 and 21+00, at surface is 8 feet of wet, low strength, highly compressible peats and organic soils, underlain by wet silts and silt clays, in the A-4 and A-6 classifications.

Ramp S

Materials occurring in the embankment foundation area consist largely of wet sands and silts, in the A-3a and A-4b classifications; wet, highly compressible, low strength peat and organic clay was encountered at ground surface to 2 to 4-foot depth, at stations 21+30 and 21+75.

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS OHIO

3
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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.

Not a part of this Contract

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
					MAINLINE						
339+00	CL	0.2-3.0	0	2	50	27	21	NP	NP	14	A-1a
		3.0-6.0	30	8	11	28	17	22	5	12	A-1a
342+00	CL	0.2-6.0	0	1	30	45	24	22	3	10	A-1a
		6.0-7.0	0	6	50	25	19	NP	NP	11	A-1a
345+00	CL	0.3-5.0	11	4	13	37	35	33	13	13	A-6a
		5.0-8.0	16	6	8	26	15	27	11	10	A-6a
346+00	CL	0.3-5.0	23	7	15	30	25	27	7	18	A-1a *
		5.0-6.0	20	4	11	41	24	26	11	11	A-6a *
353+17	CL	0.0-4.0	10	10	14	37	29	24	6	11	A-1a
		4.0-7.0	0	12	20	41	27	19	4	10	A-1a
357+00	CL	0.3-3.0	13	4	15	37	31	29	11	14	A-6a
		3.0-8.0	17	6	10	37	21	21	7	7	A-1a
		8.0-13.0	15	7	20	30	19	30	6	8	A-1a *
361+07	CL	0.3-5.0	9	11	28	30	18	26	10	11	A-1a
		5.0-10.0	20	4	17	33	27	19	5	10	A-1a
		10.0-15.0	30	7	20	23	10	15	5	9	A-1a *
		15.0-20.0	31	9	22	25	13	15	3	9	A-1a *
364+80	100'Rt	0.0-5.0	14	8	12	37	29	27	11	15	A-6a
		5.0-10.0	6	10	6	44	33	31	11	13	A-6a
		10.0-13.0	8	9	18	36	32	26	11	11	A-6a
367+00	CL	0.0-5.0	0	7	13	46	24	21	11	11	A-6a
		5.0-10.0	14	9	12	38	26	27	8	13	A-1a
368+50	120'Rt	0.0-5.0	11	6	10	36	22	19	21	15	A-7-6
		5.0-7.0	18	7	11	34	26	23	7	11	A-1a
370+00	10'Lt	0.3-5.0	8	5	13	30	25	27	11	14	A-6a
		5.0-10.0	37	15	13	19	16	23	5	8	A-2-4
372+25	230'Lt	0.3-5.0	28	7	21	24	15	16	4	8	A-1a
		5.0-10.0	33	8	19	24	17	13	3	9	A-1a
		10.0-16.0	0	11	26	30	23	17	1	9	A-1a
372+30	340'Rt	0.2-5.0	19	6	13	36	26	26	11	14	A-6a
		5.0-10.0	23	8	11	33	27	28	11	11	A-6a
374+00	CL	0.3-5.0	0	6	17	30	27	28	11	17	A-6a
		5.0-8.0	10	7	9	21	17	26	11	10	A-6a
376+80	335'Lt	0.5-5.0	0	5	14	38	18	27	16	16	A-6b
		5.0-9.0	17	10	23	29	12	21	5	22	A-1a
		9.0-14.5	75	25	6	11	7	16	6	7	A-1-b
		14.5-20.0	34	23	26	- 18 -		NP	NP	6	A-1-b *
377+00	CL	0.5-4.0	0	4	12	37	17	30	15	20	A-6a
		4.0-9.0	0	0	17	45	23	41	13	14	A-6a
		9.0-11.0	19	9	23	37	21	19	7	13	A-1a
		11.0-19.0	69	17	11	- 8 -		NP	NP	5	A-1-a *
		19.0-22.0	51	15	19	9	6	NP	NP	6	A-1-b
380+00	CL	0.3-5.0	7	7	17	36	33	36	15	23	A-6a
		5.0-11.0	0	5	29	34	28	32	15	21	A-6a
		11.0-14.0	11	14	31	30	25	29	8	21	A-1a *
		14.0-18.0	9	3	11	35	42	31	15	9	A-6a *
383+35	CL	0.3-5.0	9	4	11	33	43	31	13	17	A-6a
		5.0-6.0	15	20	0	20	45	55	22	30	A-7-6
		6.0-11.0	13	7	21	34	25	NP	NP	11	A-1a
		11.0-15.0	32	13	20	12	8	NP	NP	13	A-1-b
		15.0-17.0	70	14	11	- 5 -		NP	NP	10	A-1-a *
387+00	CL	0.0-5.0	10	16	16	23	31	27	11	8	A-6a
		5.0-8.0	6	10	18	38	28	25	10	11	A-1a
		8.0-13.0	11	9	18	39	30	23	6	10	A-1a
		13.0-18.0	12	11	19	39	28	23	8	9	A-1a *
		18.0-25.0	17	11	18	27	27	21	6	9	A-1a *
387+40	235'Rt	0.5-5.0	0	3	25	35	36	31	11	16	A-6a
		5.0-9.5	0	10	18	33	39	28	7	11	A-1a
		9.5-14.0	12	10	21	33	24	23	7	21	A-1a
		14.0-20.0	11	9	10	32	38	28	9	9	A-1a
		20.0-25.0	22	9	18	27	24	22	6	8	A-1a
391+00	CL	0.5-5.5	6	5	16	30	19	36	14	19	A-6a
		5.5-6.5	6	12	28	30	24	21	6	13	A-1a
		6.5-13.0	10	8	20	32	21	21	6	10	A-1a
		13.0-16.0	0	6	24	36	34	NP	NP	10	A-2-4 *
		16.0-19.0	9	7	25	34	21	19	3	12	A-1a *
		19.0-23.0	14	3	15	34	10	NP	NP	15	A-1a
395+00	CL	0.5-5.0	0	5	17	37	41	36	14	14	A-6a
		5.0-7.0	0	7	18	45	33	36	8	12	A-1a
		7.0-12.0	0	0	19	55	26	23	6	10	A-1a
		12.0-18.0	0	11	23	43	23	21	4	10	A-1a
398+00	115'Lt	0.5-5.5	14	5	16	36	27	34	15	17	A-6a
		5.5-6.0	16	23	12	12	- 16 -		NP	14	A-1-b
		6.0-13.0	33	11	14	24	18	24	9	10	A-1a
		13.0-17.0	15	14	16	34	22	24	7	9	A-1a
		17.0-20.0	14	10	19	33	24	23	6	8	A-1a
398+00	CL	0.5-2.5	0	2	34	37	27	28	9	18	A-1a
		2.5-6.0	37	20	15	16	12	NP	NP	16	A-2-4
		6.0-13.0	16	10	19	27	28	28	6	10	A-1a
		13.0-19.0	19	9	17	30	25	29	9	8	A-1a
		19.0-25.0	14	12	16	33	23	22	5	10	A-1a

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
					MAINLINE (Cont'd)						
398+00	70'Rt	0.6-2.5	0	22	41	21	16	NP	NP	15	A-1a
		2.5-6.0	47	11	22	9	11	NP	NP	19	A-1-b
		6.0-11.0	17	9	20	32	22	25	6	13	A-1a
		11.0-16.0	13	9	18	36	24	29	8	16	A-1a
		16.0-21.0	17	9	17	35	22	24	8	10	A-1a
		21.0-25.0	7	10	20	38	25	25	9	13	A-1a
401+00	CL	0.5-4.5	45	18	21	9	7	NP	NP	12	A-1-b
		4.5-6.0	18	11	18	29	24	28	9	13	A-1a
		6.0-11.0	15	11	18	31	25	28	8	16	A-1a
		11.0-16.0	13	11	19	33	24	24	5	9	A-1a
		16.0-21.0	13	11	19	33	24	24	5	10	A-1a
		21.0-25.0	20	10	19	29	22	NP	NP	11	A-1a
		25.0-30.0	10	9	21	37	23	21	6	11	A-1a
405+00	CL	0.5-5.0	8	10	18	28	36	36	12	17	A-6a
		5.0-10.0	25	10	23	20	22	23	9	21	A-1a
		10.0-12.0	57	10	10	15	8	23	4	15	A-1-b
		12.0-17.0	15	11	19	31	24	23	7	10	A-1a
		17.0-23.0	18	10	19	28	25	21	7	10	A-1a
408+15	CL	0.5-5.0	14	9	21	24	33	18	3	10	A-1a *
		5.0-10.0	11	9	23	34	23	18	3	10	A-1a *
411+00	CL	0.5-5.0	0	8	11	42	39	27	12	15	A-6a
		5.0-10.0	6	8	15	34	37	27	11	13	A-6a
		10.0-15.0	10	10	20	33	27	28	6	8	A-1a
		15.0-20.0	18	12	16	33	21	26	5	8	A-1a *
414+00	CL	0.5-5.0	0	1	5	45	47	45	21	24	A-7-6
		5.0-6.0	0	5	12	36	39	33	16	14	A-6b
		6.0-13.0	6	4	16	28	36	32	16	17	A-6b
		13.0-18.0	23	11	21	16	28	32	13	16	A-6a *
417+00	CL	0.5-5.0	7	3	12	36	42	39	23	15	A-6b
		5.0-8.0	11	4	13	33	39	29	18	16	A-6b
		8.0-12.0	0	1	7	45	46	34	11	16	A-6a
		12.0-14.5	38	10	14	20	18	34	11	10	A-6a *
		14.5-16.0	26	10	18	26	20	21	5	9	A-1a *
420+50	CL	0.5-5.0	11	21	10	24	34	43	16	17	A-7-6
		5.0-8.0	17	10	21	30	22	NP	NP	12	A-1a *
		8.0-12.0	16	12	10	32	30	28	7	10	A-1a *
		12.0-16.0	38	19	17	16	9	20	3	8	A-2-4
		16.0-20.0	20	15	19	29	19	21	6	7	A-1a
423+00	CL	0.0-3.0	0	0	4	62	34	45	14	22	A-6a
		3.0-5.0	0	11	42	23	24	22	6	15	A-1a
		5.0-6.0	0	0	8	47	45	43	23	33	A-7-6
		6.0-7.0	0	0	14	51	35	28	8	17	A-1b
		7.0-8.0	0	1	12	44	43	33	11	20	A-6a
		8.0-8.5	Gray Gravel and Stone Fragments W/Trace of Soil							22	Visual
430+00	CL	0.2-3.0	12	6	3	45	45	45	18	28	A-7-5
		3.0-5.0	0	2	33	45	26	21	4	17	A-1a
		5.0-9.0	71	14	6	- 9 -		NP	NP	8	A-1-a
		9.0-13.0	80	10	4	- 6 -		NP	NP	15	A-1-a
448+00	CL	0.7-4.0	0	1	5	45	49	41	12	23	A-7-6
		4.0-10.5	0	0	9	54	37	37	14	30	A-6a
		10.5-18.0	60	12	3	- 5 -		NP	NP	14	A-1-a
450+00	CL	0.0-4.0	0	1	8	60	30	38	13	20	A-6a
		4.0-6.0	0	1	6	63	30	38	13	20	A-6b
		6.0-12.0	0	1	16	48	35	34	11	20	A-6a
		12.0-17.0	77	14	4	- 5 -		NP	NP	11	A-1-a
456+35	CL	0.0-5.0	0	0	3	45	45	47	13	26	A-7-6
		5.0-10.0	0	2	35	37	26	30	11	24	A-6a
		10.0-14.5	0	2	35	32	26	36	9	23	A-1a
		14.5-20.0	72	14	8	- 6 -		NP	NP	23	A-1-a
459+00	CL	0.0-3.5	0	0	1	46	51	51	20	24	A-7-5
		3.5-13.0	0	1	10	55	34	46	16	26	A-6b
		13.0-18.0	67	6	2	- 5 -		NP	NP	12	A-1-a
464+00	CL	0.0-4.0	0	1	5	45	49	45	23	25	A-7-6
		4.0-6.0	0	0	5	52	43	47	17	27	A-7-6
		6.0-6.5	0	0	11	59	30	34	11	28	A-6a
		9.5-16.0	65	19	5	- 11 -		NP	NP	15	A-1-a
467+00	CL	0.6-4.0	0	0	3	47	50	42	14	22	A-7-6
		4.0-7.0	0	0	6	47	47	40	15	21	A-6a
		7.0-10.0	74	6	7	9	4	21	3	18	A-1-a
471+00	CL	0.0-3.0	14	4	7	53	22	35	10	20	A-4b
		3.0-5.0	0	1	5	45	49	39	19	-	A-6b
		5.0-7.0	17	4	8	36	35	36	19	25	A-6b
		7.0-14.5	61	9	8	15	10	30	7	19	A-2-4

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
					MAINLINE (Cont'd)						
475+00	CL	0.6-2.0	0	2	3	51	44	47	19	26	A-7-6
		2.0-4.0	0	6	7	41	47	49	17	30	A-7-6
		4.0-7.0	55	7	7	19	12	31	10	22	A-2-4
		7.0-15.0	66	16	6	- 12 -		NP	NP	10	A-1-a
480+00	CL	0.6-4.5	0	6	15	22	27	NP	NP	20	A-4a
		4.5-9.0	0	14	51	24	11	NP	NP	23	A-3a
		9.0-12.0	67	14	9	- 10 -		NP	NP	10	A-1-a
488+00	CL	0.6-2.0	12	31	16	17	21	33	12	14	A-6a
		2.0-6.0	16	31	26	20	13	NP	NP	9	A-3a
		6.0-9.0	0	26	54	- 16 -		NP	NP	21	A-3a
		9.0-16.0	62	31	24	- 13 -		NP	NP	15	A-1-b
		16.0-17.0	0	2	7	76	15	NP	NP	24	A-4b
		17.0-19.0	42	17	23	- 18 -		NP	NP	18	A-1-b
491+00	CL	0.0-5.0	13	7	16	32	32	32	9	9	A-4a *
		5.0-8.0	12	23	31	20	14	NP	NP	9	A-3a
		8.0-16.0	12	14	28	23	23	18	5	9	A-4a
494+35	150'Lt	0.5-3.0	60	11	7	13	9	21	6	6	A-1-b
		3.0-13.0	17	13	23	23	24	25	6	18	A-1a
		13.0-15.0	70	11	5	9	5	25	7	13	A-2-4
498+85	200'Lt	0.5-4.0	13	16	16	30	25	27	11	12	A-6a
		4.0-7.0	0	5	15	47	33	27	3	21	A-6a
		7.0-12.0	33	15	12	23	16	26	8	16	A-1a
498+85	150'Lt	0.5-6.0	30	7	13	34	20	25	8	13	A-1a
		6.0-8.0	17	7	12	39	25	39	14	23	A-6a
		8.0-11.0	28	12	12	28	20	29	12	20	A-6a
		11.0-16.5	61	13	9	15	11	21	3	15	A-2-4
498+85	75'Lt	0.5-4.0	12	16	16	29	27	35	8	11	A-1a
		4.0-6.0	23	9	15	28	25	23	5	14	A-1a
		6.0-8.0	0	10	12	34	44	31	11	16	A-6a
		8.0-15.5	24	11	16	28	21	28	10	13	A-1a
		15.5-19.0	53	10	12	24	21	27	7	15	A-1a
		19.0-21.0	35	9	12	19	25	NP	NP	12	A-2-4
498+85	CL	0.5-2.0	30	12	13	22	24	NP	NP	8	A-1a
		2.0-6.0	37	7	9	20	27	25	6	14	A-1a
		6.0-8.0	13	10	11	30	36	29	8	18	A-1a
		8.0-12.0	11	6	15	36	32	NP	NP	15	A-1a
		12.0-17.0	69	16	5	- 10 -		NP	NP	11	A-1-a
498+85	75'Rt	0.0-4.5	18	11	15	31	23	26	9	10	A-1a
		4.5-6.0	35	13	9	17	15	29	9	11	A-2-4
		8.0-11.5	28	10	12	34	16	NP	NP	13	A-1a
		11.5-13.0	35	10	11	25	18	19	5	8	A-1a
505+00	300'Lt	0.0-4.0	Brown Sandy Clayey Silt With Some Gravel								Visual
		4.0-10.0	Br. Sandy Clayey Silt and Gravel, Trace of Stone Frags.								Visual
		10.0-10.6	Black Loamy Peat							73	Visual
		10.6-17.0	0	3	7	36	52	76	46	NP	A-7-5
		17.0-20.0	0	16	22	32	30	21	6	21	A-1a
		20.0-26.0	36	29	19	- 16 -		NP	NP	18	A-1-b
505+25	200'Rt	0.0-4.0	22	9	18	30	25	28	9	13	A-1a
		4.0-9.0	20	7	12	31	30	27	11	20	A-6a
		9.0-18.0	50	9	11	23	17	22	5	11	A-1a
505+50	200'Lt	1.0-6.0	Black Fine-Textured Peat, Trace of Fibers							197	Visual
		6.0-6.5	Gray Sandy Silt, Trace of Organic							24	Visual
505+50	150'Lt	1.0-2.0	Black Clayey Silt, Organic							96	Visual
		2.0-4.0	Black Clayey Silt, Organic							93	Visual
505+50	75'Lt	1.0-3.0	Brown Sandy Clayey Silt							33	Visual
		3.0-4.5	Gray Clayey Silt, Slightly Organic							40	Visual
505+50	CL	1.0-2.0	Black Silty Clay, Slightly Organic							52	Visual
		2.0-5.0	Black Clayey Silt, Organic							111	Visual
505+50	75'Rt	4.0-5.5	Gray Clayey Silt, Trace of Organic							29	Visual
505+50	150'Rt	1.0-4.0	Black Clayey Silt, Organic							61	Visual
		4.0-4.5	Gray Silty Sand, Trace of Organic							23	Visual
505+85	200'Lt	0.2-4.0	Brown Sandy Clayey Silt W Gravel							Visual	
		4.0-6.0	Brown Sandy Clayey Silt W Gravel							Visual	
		6.0-8.0	Brown Sandy Clayey Silt W Gravel							Visual	
		8.0-9.5	10	8	12	31	38	56	19	34	A-7-5
		9.5-15.0	16	7	9	21	17	37	16	23	A-6b
		15.0-22.0	65	23	4	- 8 -		NP	NP	13	A-1-a
506+00	200'Lt	1.0-4.0	Black Fine-Textured Peat							171	Visual
		4.0-6.0	Brown Fine-Textured Peat							89	Visual
506+00	150'Lt	1.0-4.0	Brown Sedimentary Peat							161	Visual
		4.0-6.0	Black Clayey Silt, Organic							115	Visual
506+00	75'Lt	1.0-4.0	Black Clayey Silt, Organic							174	Visual
		4.0-6.0	Black Clayey Silt, Organic							29	Visual
508+00	CL	1.0-4.0	Brown Fibrous Peat							200	Visual
		4.0-6.0	Black Silty Clay, Slightly Organic							65	Visual
508+00	75'Rt	1.0-5.0	Black Fine-Textured Peat							242	Visual
		5.0-6.5	Brown Sedimentary Peat				102	-		51	Visual
508+00	150'Rt	1.0-4.0	Gray Clayey Silt, Organic							64	Visual
		4.0-5.0	Gray Clayey Sandy Silt							15	Visual

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
					MAINLINE (Cont'd)						
506+00	200'Rt	1.0-2.0	Gray Clayey Silt, Organic							67	Visual
		2.0-4.0	Gray Silty Clay, Trace of Organic							90	Visual
507+00	200'Lt	1.0-3.0	Black Fine-Textured Peat							110	Visual
		3.0-6.0	Brown Clayey Silt, Organic							51	Visual
507+00	150'Lt	1.0-3.5	Black Fine-Textured Peat							210	Visual
		3.5-5.5	Brown Hardy Sedimentary Peat							99	Visual
507+00	75'Lt	1.0-4.5	Brown Fine-Textured Peat							171	Visual
		4.5-5.0	Gray Clayey Silt, Trace of Peat							57	Visual
507+00	CL	2.0-6.0	Brown Fine-Textured Peat							119	Visual
		6.0-8.0	Brown Sedimentary Peat		62	-	65				Visual
		8.0-16.0	10	35	10	- 6 -		NP	NP	12	A-1-b
507+00	75'Rt	1.0-8.0	Black Fine-Textured Peat, Trace of Fibers							212	Visual
		8.0-9.5	Gray Clayey Silty Sand, Slightly Organic							17	Visual
507+00	150'Rt	3.0-5.0	Black Clayey Silt, Organic							104	Visual
		5.0-6.5	Black Clayey Silt, Organic							102	Visual
507+00	200'Rt	1.0-5.0	Black Fine-Textured Peat							282	Visual
		5.0-6.5	Gray Sandy Silt Clay, Trace of Organic							23	Visual
507+00	250'Rt	0.3-1.5	Black Fine-Textured Peat							134	Visual
		1.5-4.5	27	10	15	27	21	22	5	16	A-1a
		4.5-7.0	42	10	11	16	21	30	10	20	A-1a
		7.0-12.0	63	31	2	- 4 -		NP	NP	13	A-1-a
		12.0-17.0	57	32	3	- 8 -		NP	NP	12	A-1-a
507+00	300'Rt	0.3-1.0	0	1	8	50	51	117	57	65	A-7-6
		1.0-3.0	0	2	12	50	36	85	46	61	A-7-5
		3.0-5.5	28	24	12	23	13	24	6	16	A-1a
		5.5-8.0	48	20	4	7	5	NP	NP	15	A-1-a
		8.0-15.0	65	28	3	- 4 -		NP	NP	14	A-1-a
507+50	200'Lt	1.0-3.0	45	10	12	20	16	20	7	18	A-1a
		3.0-6.0	42*	10	15	16	8	NP	NP	16	A-1-b
		6.0-12.0	77	12	5	- 6 -		NP	NP	12	A-1-a
507+50	150'Lt	0.8-4.0	51	9	16	15	9	NP	NP	22	A-1-b
		4.0-12.0	61	20	13	- 6 -		NP	NP	13	A-1-a
507+50	75'Lt	0.8-3.0	19	15	28	22	16	NP	NP	23	A-1a
		3.0-12.0	63	18	10	- 9 -		NP	NP	8	A-1-a
507+50	CL	1.0-8.5	Black Fine-Textured Peat							284	Visual
		8.5-12.0	36	15	13	- 7 -		NP	NP	19	A-1-b
507+50	250'Rt	0.3-3.5	Black Fine-Textured Peat							151	Visual
		3.5-6.0	0	7	10	47	36	26	8	23	A-1a
		6.0-11.0	32	18	16	- 10 -		NP	NP	12	A-1-a
		11.0-15.0	63	29	3	- 5 -		NP	NP	15	A-1-a
507+85	300'Rt	2.0-4.0	Black Loamy Peat							266	Visual
		4.0-5.5	0	0	1	29	70	41	19	47	A-7-6
		5.5-10.0	0	18*	43	- 12 -		NP	NP	27	A-3a
		10.0-15.0	13	41	33	- 13 -		NP	NP	22	A-1-b
508+00	CL	1.0-2.0	0	8	16	36	40	40	26	46	A-7-5
		2.0-5.0	57	6	12	16	9	NP	NP	24	A-1-a
		5.0-12.0	66	22	6	- 6 -		NP	NP	16	A-1-a
508+00	75'Rt	1.0-5.0	Black Sedimentary Peat				203	-	163	Visual	
		5.0-6.0	36	14	28	13	9	NP	NP	14	A-1-b
508+00	150'Rt	1.0-6.0	Black Sandy Clayey Silt, Organic					80	33	60	Visual
508+00	200'Rt	1.0-5.0	Black Fine-Textured Peat, Trace of Fibers							229	Visual
		5.0-6.5	Brown Sedimentary Peat					80	-	73	Visual
509+10	250'Rt	0.5-2.0	Black Fine-Textured Peat							188	Visual
		2.0-4.5	0	6	15	41	37	40	10	17	A-1a
		4.5-7.0	0	3	8	37	55	33	13	24	A-6a
		7.0-12.0	21	41	27	- 11 -		NP	NP	20	A-1-b
		12.0-16.0	21	41	27	- 11 -		NP	NP	20	A-1-b
509+20	300'Rt	0.3-3.0	0	5	15	37	43	97	24	74	A-7-6
		3.0-5.0	Black Fine-Textured Peat							135	Visual
		5.0-9.5	0	0	0	38	61

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY TESTING LABORATORY
COLUMBUS OHIO

4/17

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.	SHTL CLASS.
			MAINLINE (Cont'd)								
100+20	300'Lt	0.4-7.0	17	10	20	26	27	27	6	10	A-4a
		7.0-7.5	12	6	10	35	38	110	51	5	A-7-5
		7.5-12.0	0	1	4	49	46	62	16	28	A-6a
		12.0-15.0	14	5	19	29	33	57	16	19	A-6a
		15.0-22.0	7	10	36	- 14 -		NP	NP	19	A-1-b
100+20	200'Lt	0.4-4.0	10	9	20	27	25	21	7	12	A-4a
		4.0-5.0	0	0	23	39	38	50	20	36	A-7-5
		5.0-7.0	4	12	25	30	29	27	8	24	A-4a
		7.0-16.0	7	25	38	- 20 -		NP	NP	20	A-3a
		16.0-22.0	53	13	7	10	9	20	4	9	A-2-4
100+20	100'Lt	0.4-3.5	0	7	15	42	36	33	15	21	A-6a
		3.5-6.0	20	28	14	21	16	27	7	16	A-2-4
		6.0-15.0	0	16	30	- 16 -		NP	NP	22	A-2-6
		15.0-22.0	35	30	16	- 10 -		NP	NP	15	A-1-b
100+20	CL	0.0-2.0	53	11	11	13	12	NP	NP	8	A-1-a
		2.0-4.0	Black Loamy Peat							80	Visual
		4.0-6.5	10	9	10	36	27	33	10	35	A-6a
		6.5-8.0	24	12	19	31	14	NP	NP	13	A-4a
		8.0-15.0	53	21	9	8	9	NP	NP	17	A-1-b
		15.0-18.0	35	22	8	22	12	NP	NP	13	A-2-4
100+20	100'Rt	0.0-3.0	50	26	6	9	9	NP	NP	10	A-1-a
		3.0-5.0	Black Loamy Peat							102	Visual
		5.0-6.0	Brown Hurly Sedimentary Peat					130	-	70	Visual
		6.0-10.0	9	36	20	20	21	NP	NP	22	A-4a
		10.0-16.0	19	16	26	- 9 -		NP	NP	17	A-1-b
		16.0-22.0	37	10	10	- 4 -		NP	NP	13	A-1-b
100+20	200'Rt	0.0-2.0	21	11	25	21	22	NP	NP	10	A-4a
		2.0-3.0	17	6	9	16	12	36	17	14	A-2-4
		3.0-10.0	Brown Fine-Textured Peat					-	-	126	Visual
		10.0-16.0	10	36	37	- 14 -		NP	NP	21	A-3a
		16.0-22.0	6	61	23	- 10 -		NP	NP	10	A-1-a
100+20	300'Rt	0.0-4.0	16	13	10	14	14	NP	NP	13	A-2-4
		4.0-6.0	26	11	10	24	29	151	NP	NP	A-5
		6.0-10.0	0	0	7	19	36	105	31	32	A-7-6
		10.0-12.0	12	26	19	17	26	57	16	19	A-4a
		12.0-16.0	16	28	38	- 18 -		NP	NP	21	A-3a
		16.0-24.0	12	12	11	20	15	28	11	10	A-2-6
100+20	CL	0.0-7.0	12	28	31	- 30 -		NP	NP	21	A-3a
		7.0-12.0	14	16	28	- 13 -		NP	NP	20	A-3a
		12.0-17.0	17	10	33	- 12 -		NP	NP	18	A-3a
		17.0-20.0	7	31	30	- 14 -		NP	NP	21	A-3a
100+20	75'Rt	3.0-4.0	Gray Sandy Clayey Silt W/Trace of Gravel							18	Visual
100+20	150'Rt	3.0-4.0	Gray Sandy Clayey Silt W/Trace of Gravel							17	Visual
100+20	200'Rt	0.0-5.0	Gray Sedimentary Peat							112	Visual
		5.0-6.0	Gray Sandy Clayey Silt W/Trace of Gravel							15	Visual
100+00	150'Lt	1.0-2.0	0	1	1	31	67	43	21	36	A-7-6
		2.0-7.0	11	23	24	- 3 -		NP	NP	22	A-6a
		7.0-12.0	13	21	31	- 25 -		NP	NP	21	A-3a
		12.0-17.0	13	51	23	- 7 -		NP	NP	16	A-3a
		17.0-20.0	0	36	36	- 16 -		NP	NP	15	A-3a
100+00	75'Lt	1.0-2.0	0	29	36	11	24	36	17	31	A-6b
		2.0-7.0	5	43	19	20	13	NP	NP	22	A-4a
		7.0-12.0	23	34	22	- 11 -		NP	NP	16	A-1-b
		12.0-17.0	23	28	26	- 13 -		NP	NP	16	A-1-b
		17.0-20.0	17	33	30	- 20 -		NP	NP	15	A-3a
100+00	CL	1.0-6.0	0	10	26	27	19	NP	NP	16	A-4a
		6.0-11.0	13	31	24	- 22 -		NP	NP	18	A-3a
		11.0-16.0	14	31	27	- 18 -		NP	NP	19	A-3a
		16.0-20.0	7	16	31	- 20 -		NP	NP	19	A-3a
100+00	75'Rt	1.0-2.0	0	3	12	36	50	86	50	60	A-7-5
		2.0-6.0	5	20	17	- 28 -		NP	NP	10	A-3a
		6.0-14.0	10	33	37	- 20 -		NP	NP	10	A-3a
		14.0-20.0	3	31	40	- 17 -		NP	NP	21	A-3a
100+00	125'Rt	2.0-3.0	Black Fine Textured Peat							200	Visual
		3.0-4.0	Gray Hurly Sedimentary Peat					145	-	110	Visual
		4.0-5.0	Gray Hurly Sedimentary Peat					97	-	85	Visual
		5.0-7.0	16	13	25	29	20	10	4	19	A-4a
100+00	175'Rt	0.0-3.0	Black Fine-Textured Peat							333	Visual
		3.0-5.0	18	22	20	26	16	16	1	17	A-4a
		5.0-14.0	10	22	27	- 16 -		NP	NP	22	A-3a
		14.0-16.0	0	12	30	- 12 -		19	NP	20	A-3a
		16.0-18.0	0	3	15	63	18	NP	NP	23	A-7a
		18.0-20.0	0	1	12	76	11	NP	NP	17	A-4b
100+00	CL	0.0-3.0	0	1	1	23	75	36	11	27	A-6a
		3.0-7.0	7	17	34	26	17	NP	NP	22	A-4a
		8.0-14.0	0	36	32	- 18 -		NP	NP	20	A-3a
		14.0-20.0	7	17	37	- 19 -		NP	NP	17	A-3a
100+00	200'Rt	3.0-4.0	Gray Sandy Silt							6	Visual
100+00	200'Lt	0.0-2.0	0	3	13	37	47	71	30	47	A-7-5
		2.0-6.0	0	7	58	23	12	NP	NP	29	A-3a
		6.0-13.0	11	28	45	- 20 -		NP	NP	20	A-3a
		13.0-20.0	29	32	38	- 9 -		NP	NP	18	A-1-b

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
			MAINLINE (Cont'd)								
502+00	150'Lt	0.2-4.0	0	3	17	45	35	20	11	23	A-6a
		4.0-10.0	0	3	45	29	23	NP	NP	25	A-4a
		10.0-15.0	6	14	43	- 10 -		NP	NP	20	A-2
		15.0-20.0	0	17	71	- 12 -		NP	NP	28	A-3a
502+00	75'Lt	0.2-2.0	0	2	11	33	54	50	26	13	A-7-6
		2.0-7.0	0	14	34	30	22	16	2	23	A-4a
		7.0-11.0	0	16	36	31	23	NP	NP	26	A-4a
		11.0-16.0	0	1	6	35	58	33	14	26	A-6a
		16.0-20.0	0	1	8	33	58	36	15	27	A-6a
502+00	CL	0.2-5.0	0	1	4	50	45	30	9	21	A-4b
		5.0-9.0	0	0	2	31	67	40	17	29	A-6a
		9.0-11.0	12	15	36	- 13 -		NP	NP	22	A-3a
		11.0-15.0	19	17	22	- 12 -		NP	NP	19	A-3a
		15.0-20.0	13	17	23	- 17 -		NP	NP	15	A-3a
502+00	75'Rt	0.0-2.0	0	0	11	32	57	36	15	24	A-6a
		2.0-7.0	3	20	36	- 20 -		NP	NP	26	A-3a
		7.0-12.0	13	27	36	- 24 -		NP	NP	27	A-3a
		12.0-17.0	0	5	61	- 14 -		NP	NP	23	A-3a
		17.0-20.0	0	6	76	- 18 -		NP	NP	26	A-3a
502+00	150'Rt	1.0-6.0	0	2	61	- 34 -		NP	NP	21	A-3a
		6.0-11.0	0	1	63	- 16 -		NP	NP	29	A-3a
		11.0-16.0	0	1	83	- 17 -		NP	NP	22	A-3a
		16.0-20.0	0	1	10	65	24	NP	NP	24	A-6a
502+00	200'Rt	0.2-2.0	Black Fibrous Peat							326	Visual
		2.0-7.0	0	2	73	- 25 -		NP	NP	24	A-3a
		7.0-12.0	0	2	30	19	10	NP	NP	30	A-4a
		12.0-17.0	0	0	20	23	11	NP	NP	20	A-4a
		17.0-20.0	0	0	8	53	14	NP	NP	23	A-4a
502+50	100'Rt	0.2-5.0	15	14	18	16	16	NP	NP	6	A-3a
		5.0-10.0	0	15	62	- 23 -		NP	NP	20	A-3a
		10.0-15.0	0	4	76	- 20 -		NP	NP	23	A-3a
		15.0-20.0	0	0	92	- 8 -		NP	NP	26	A-3
502+50	105'Rt	0.2-3.0	0	7	17	44	32	311	140	28	A-7-5
		3.0-7.0	0	21	23	36	20	60	18	35	A-7-5
		7.0-14.0	0	2	70	- 20 -		NP	NP	23	A-3a
		14.0-20.0	0	1	82	- 17 -		NP	NP	22	A-3a
503+00	CL	0.2-3.0	0	7	17	36	40	28	11	13	A-6a
		3.0-6.0	0	12	26	19	43	62	18	20	A-7-6
		6.0-12.0	3	23	58	14	20	NP	NP	20	A-4a
		12.0-18.0	0	2	65	12	21	NP	NP	20	A-3a
		18.0-20.0	0	2	64	- 14 -		NP	NP	28	A-3a
503+00	CL	0.4-2.0	0	12	20	30	25	NP	NP	14	A-4a
		2.0-6.0	0	4	34	40	22	NP	NP	23	A-4a
		6.0-13.0	11	58	17	- 13 -		NP	NP	8	A-3a
		13.0-19.0	23	52	16	- 9 -		NP	NP	19	A-3a
520+00	30'Rt	0.4-3.5	6	15	29	17	33	NP	NP	18	A-4a
		3.5-10.0	3	35	38	- 24 -		NP	NP	8	A-4a
525+00	30'Rt	0.6-3.5	0	8	18	46	28	30	16	13	A-6a
		3.5-4.5	0	5	58	25	12	NP	NP	12	A-4a
		4.5-12.0	14	14	17	35	20	16	2	13	A-4a
530+00	CL	0.5-2.5	17	14	12	20	28	36	11	10	A-6a
		2.5-10.0	12	15	17	33	23	30	10	11	A-6b
		10.0-11.0	64	17	5	9	5	NP	NP	6	A-1-a
531+00	CL	0.4-2.0	11	7	12	23	47	36	13	17	A-6a *
		2.0-5.5	17	6	13	30	34	50	12	20	A-6a *
		5.5-6.5	36	10	19	21	14	NP	NP	12	A-2-4
		6.5-10.0	33	13	13	21	19	14	1	11	A-1-a
537+00	CL	0.0-4.0	0	19	14	23	44	36	15	24	A-6a
		4.0-7.0	0	5	14	39	42	51	22	23	A-6a
		7.0-9.5	72	11	4	9	4	21	1	13	A-1-a
541+50	50'Lt	0.5-2.0	0	5	19	23	53	33	16	22	A-6a
		2.0-6.0	0	7	30	19	44	50	19	18	A-6a
		6.0-12.0	10	11	16	32	31	21	5	16	A-4a

IR 71 INTERCHANGE

IR 71

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
489+83	193'Lt	0.0-5.0	10	0	15	22	30	24	6	13	A-4a
		5.0-10.0	52	16	9	12	10	20	6	15	A-1-b
		10.0-11.0	40	9	12	16	23	20	6	12	A-4a

RAMP "A"

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
			RAMP "A" (Cont'd)								
19+80	15'Rt	0.5-3.0	0	30	7	8	55	45	25	22	A-7-6 *
		3.0-6.5	0	8	10	35	47	43	15	30	A-7-6
		6.5-10.0	65	17	6	- 12 -		NP	NP	11	A-1-a
31+15	20'Rt	0.4-5.0	12	8	18	23	39	36	14	15	A-6a
		5.0-10.0	23	7	13	23	34	25	11	10	A-6a *
		10.0-18.0	26	9	8	55	19	18	2	12	A-4a
		18.0-20.0	30	5	11	31	33	25	11	13	A-6a
35+00	5'Rt	0.3-2.0	15	12	17	28	28	25	8	12	A-4a
		2.0-4.0	9	8	15	24	34	25	11	14	A-6a
		4.0-8.0	16	6	16	23	29	23	8	9	A-4a
		8.0-11.5	15	7	14	21	33	25	11	10	A-6a
35+00	25'Rt	0.2-4.0	8	6	14	28	44	37	17	16	A-6b
		4.0-7.0	18	7	10	31	33	31	13	21	A-6a
		7.0-9.0	15	7	20	32	26	19	5	9	A-4a
		9.0-15.0	26	7	17	28	23	23	6	8	A-4a *
		15.0-22.0	15	7	14	32	32	24	11	12	A-6a *
30+23	10'Rt	0.2-3.0	0	3	18	35	43	30	14	23	A-6a
		3.0-6.5	11	10	23	25	31	28	12	22	A-6a
		6.5-8.0	12	15	19	26	28	28	12	24	A-6a
		RAMP "D"									
20+50	5'Lt	0.4-3.0	8	6	10	33	34	25	11	16	A-6a
		3.0-8.0	14	10	16	35	25	20	3	10	A-4a *
		8.0-11.0	14	7	15	33	31	25	11	11	A-6a *
30+30	30'Rt	0.3-4.5	14	6	15	33	32	32	13	18	A-6a
		4.5-9.0	17	10	20	27	26	20	9	19	A-4a
		9.0-10.0	55	20	9	9	7	20	6	8	A-1-b
		10.0-15.0	11	5	12	31	41	31	15	17	A-6a
		15.0-18.0	14	6	9	33	38	23	11	11	A-6a
		18.0-22.0	2	5	11	36	46	23	11	16	A-6a
33+68	10'Rt	0.2-2.0	8	10	17	33	32	28	11	13	A-6a
		2.0-4.0	5	12	18	27	38	30	14	18	A-6a
		4.0-5.0	65	7	10	9	5	17	4	11	A-1-a
		5.0-7.5	12	8	17	32	30	23	8	11	A-4a
		7.5-12.0	6	6	19	42	25	16	4	10	A-4a
		RAMP "E"									
24+50	10'Lt	0.5-4.0	6	8	15	37	34	31	12	11	A-6a
		4.0-6.0	6	10	20	31	33	27	8	10	A-6a
		6.0-13.0	10	10	21	30	29	23	5	9	A-4a
		13.0-19.0	10	8	19	34	29	25	8	9	A-4a *
		19.0-25.0	11	8	17	36	28	24	7	9	A-4a
29+90	15'Lt	0.5-5.0	8	12	15	34	31	26	5	11	A-6a
		5.0-8.0	6	8	19	32	35	23	11	11	A-6a
		8.0-13.0	17	10	17	32	24	25	8	9	A-4a
		13.0-17.0	12	13	18	35	22	25	8	9	A-4a
31+85	CL	0.5-5.0	10	9	17	36	28	28	6	12	A-4a *
		5.0-8.0	12	10	17	33	28	28	6	12	A-4a
		8.0-12.0	10	11	17	31	31	28	6	10	A-4a
		12.0-15.0	10	10	17	21	42	28	11	9	A-6a
36+20	20'Lt	0.0-5.0	0	4	15	36	45	28	10	21	A-6a *
		5.0-9.0	20	11	18	29	23	28	10	9	A-4a
		9.0-13.0	16	10	21	30	21	28	8	9	A-4a
		RAMP "B"									
17+65	12'Lt	0.4-4.0	16	8	20	28	28	17	6	11	A-4a
		4.0-8.0	13	8	23	28	28	21	6	11	A-4a
		8.0-16.0	15	7	18	29	31	19	3	10	A-4a
20+05	30'Lt	0.5-4.0	36	23	22	6	9	NP	NP	11	A-1-b
		4.0-6.0	0	3	11	38	47	25	10	21	A-7-6
		6.0-10.0	33	17	9	28	13	24	3	16	A-4a
23+30	25'Lt	0.5-5.0	10	11	16	28	34	31	11	16	A-6a
		5.0-10.0	7	10	18	27	38	31	11	11	A-6a
		10.0-15.0	9	8	17	27	39	31	11	9	A-6a *
		15.0-20.0	5	14	12	37	32	33	12	13	A-6a
26+45	27'Lt	0.5-5.0	0	4	12	37	47	36	16	12	A-6b
		5.0-10.0	0	4	3	41	52	35	17	13	A-6b
		10.0-15.0	0	5	23	31	41	29	15	13	A-6a *
		15.0-20.0	0	0	20	39	41	29	10	13	A-6a
29+15	16'Lt	0.5-5.0	0	3	12	38	46	33	11	14	A-6a
		5.0-10.0	0	8	20	28	44	29	9	12	A-6a
		10.0-15.0	15	10	20	28	27	29	9	12	A-6a *
		15.0-20.0	12	9	20	28	31	29	10	15	A-6a *
		20.0-25.0	11	11	20	34	24	26	6	9	A-4a
		25.0-30.0	14	9	19	36	22	29	7	9	A-4a
30+95	55'Lt	0.5-4.5	7	9	22	33	29	28	6	12	A-4a
		4.5-7.5	11	8	21	32	28	29	8	16	A-4a
		7.5-10.0	61	18	10	7	4	NP	NP	12	A-1-a
		10.0-15.0	19	16	19	26	20	29	7	9	A-4a
		15.0-20.0	15	10	21	36	18	28	7	8	A-4a
33+10	CL	0.5-5.0	67	12	7	- 12 -		NP	NP	19	A-1-a
		5.0-10.0	22	12	17	28	20	23	6	12	A-4a
		10.0-15.0	17	8	19	31	25	23	7	10	A-4a
		15.0-20.0	24	8	15	31	23	23	6	9	A-4a

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
			RAMP "B" (Cont'd)								
35+15	5'Rt	0.5-3.0	12	5	30	25	28	NP	NP	17	A-4a
		3.0-6.0	17	9	19	30	25	23	7	10	A-4a
		6.0-15.0	13	10	19	30	28	23	8	9	A-4a
		15.0-20.0	20	9	17	29	25	26	10	10	A-4a
		USP 23 INTERCHANGE									
		RAMP "M"									
5+00	CL	0.0-5.0	30	16	13	17	15	28	9	14	A-2-4 *
		5.0-10.0	60	13	8	13	7	19	3	6	A-1-b
		10.0-16.0	14	10	12	36	27	34	10	30	A-7-5
		16.0-20.0	0	15	19	38	28	41	11	29	A-7-5
		20.0-25.0	0	1	5	94	1	NP	NP	21	A-4b
		25.0-30.0	0	1	1	96	2	NP	NP	20	A-4b
7+00	10'Lt	0.0-7.0	55	18	10	15	2	NP	NP	8	A-1-b *
		7.0-12.0	0	6	26	39	29	26	8	11	A-7-6
		12.0-16.0	0	3	32	38	27	34	10	25	A-4b
		16.0-24.0	0	0	37	- 21 -		NP	NP	26	A-3a
		24.0-30.0	0	1	12	68	9	NP	NP	18	A-4b
7+00	60'Rt	0.2-6.0	18	3	3	45	1	150	88	108	A-7-6
		6.0-11.0	12	17	22	36	11	NP	NP	18	A-4a
		11.0-16.0	7	5	22	39	17	NP	NP	19	A-4a
		16.0-23.0	0	1	13	77	9	NP	NP	23	A-4b
		23.0-30.0	0	3	22	61	14	NP	NP	23	A-4b
7+10	141'Rt	1.0-7.0	Brown Hurly Sedimentary Peat					280	-	188	Visual
		7.0-13.0	0	2	10	53	35	98	41	93	A-4b
		13.0-19.0	0	13	34	31	16	38	9	33	A-4b
		19.0-31.0	0	0	3	86	11	NP	NP	20	A-4b
7+45	24'Lt	0.5-5.0	33	12	23	13	19	22	7	11	A-2-4
		5.0-6.0	0	4	23	39	34	29	11	22	A-4a
		6.0-7.0	0	1	11	51	36	51	25	25	A-7-6
		7.0-10.5	0	5	8	35	51	29	7	20	A-4a
		10.5-15.0	0	0	1	39	60	30	10	NP	A-4a
		15.0-20.0	0	1	9	43	47	NP	NP	26	A-4a
		20.0-25.0	36	34	15	- 15 -		NP	NP	11	A-1-b
		25.0-27.0	0	2	25	49	24	NP	NP	25	A-4b
		27.0-30.0	0	0	5	62	13	NP	NP	22	A-4b
		30.0-32.0	0	0	17	66	17	NP	NP	23	A-4b
8+50	36'Pt	1.0-8.0	Brown Hurly Sedimentary Peat					224	-	182	Visual
		8.0-11.0	0	0	2	58	39	74	15	31	A-6a
		11.0-20.0	0	0	5	70	25	NP	NP	19	A-4b
		20.0-31.0	0	0	2	69	29	NP	NP	30	A-4b
8+55	17'Pt	0.0-3.0	0	1	1	12	86	224	99	98	A-7-6
		3.0-5.0	Brown Fine-Textured Peat					-	-	123	Visual
		5.0-13.0	Brown Hurly Sedimentary Peat					96	-	68	Visual
		13.0-20.0	0	10	25	36	17	NP	NP	23	A-4a
		20.0-21.0	14	52	26	- 9 -		NP	NP	22	A-1-b
		21.0-30.0	2	1	3	74	20	NP	NP	23	A-4b
9+35	50'Lt	0.5-3.5	22	12	16	34	17	19	2	11	A-4a
		3.5-6.0	0	3	16	40	36	33	12	23	A-6a
		6.0-8.0	0	1	5	38	56	34	13	23	A-6a
		8.0-13.0	0	0	12	44	44	NP	NP	23	A-4a
		13.0-14.5	0	16	28	- 23 -		NP	NP	23	A-2a
		14.5-17.0	0	1	4	68	16	NP	NP	23	A-4b
		17.0-20.0	0	0	15	- 35 -		NP	NP	23	A-3a
		20.0-24.0	0	2	33	41	14	NP	NP	23	A-4b
		24.0-30.0	0	2	21	77	2	NP	NP	23	A-4b
9+48	12'Lt	0.5-5.5	16	10	17	34	23	38	6	16	A-4a *
		5.5-8.0	0	1	13	53	33	37	11	19	A-6a
		8.0-10.0	7	2	12	36	43	21	5	7	A-4a
		10.0-15.0	11	3	15	25	46	18	NP	19	A-4a
		15.0-20.0	2	3	28	- 16 -		NP	NP	23	A-3a
		20.0-25.0	4	23	23	- 11 -		NP	NP	23	A-3a
		25.0-30.0	12	7	28	31	9	NP	NP	21	A-4a
9+50	5'Rt	0.0-2.5	0	1	3	43	53	101	61	25	A-7-6
		2.5-6.0	Brown Fine-Textured Peat					-	-	168	Vis

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

5/17

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.
					Ramp "D" (Cont'd)						
7+40	65'Lt	0.0-2.0	Black Fine-Textured Peat							172	Visual
		2.0-4.0	Gray Sandy Clayey Silt, Organic							98	Visual
		4.0-6.0	Gray Silty Clay, Trace of Organic							27	Visual
7+50	55'Lt	0.0-2.0	Black Fibrous Peat							506	Visual
		2.0-4.0	Gray Clayey Silt, Organic							61	Visual
		4.0-6.0	Gray Sandy Clayey Silt, Organic							90	Visual
7+60	2'Lt	0.0-3.0	Black Fibrous, Fine-Textured Peat							180	Visual
		3.0-4.5	0	2	19	37	42	83	NP	76	A-7-5
		4.5-6.0	0	3	18	19	35	91	33	95	A-7-5
		6.0-7.0	0	18	23	20	17	NP	NP	22	A-1a
7+60	40'Rt	0.0-2.0	Black Fibrous Peat							422	Visual
		2.0-4.0	Brown Sandy Clayey Silt, Organic							85	Visual
		4.0-6.0	Gray Clayey Silty Sand and Gravel							19	Visual
8+35	105'Rt	0.2-3.0	11	13	39	25	12	NP	NP	39	A-1a
		3.0-7.0	5	16	61	-	18	NP	NP	25	A-2a
		7.0-13.0	0	0	17	73	10	NP	NP	21	A-4b
		13.0-19.0	0	0	10	77	13	NP	NP	18	A-4b
		19.0-25.0	0	0	5	82	13	NP	NP	17	A-4b
		25.0-30.0	0	0	7	83	10	NP	NP	16	A-4b
8+35	80'Rt	0.0-2.0	Black Fibrous Fine-Textured Peat							273	Visual
		2.0-4.0	Black Fine-Textured Peat							111	Visual
		4.0-6.0	Gray Sandy Clayey Silt							15	Visual
8+70	5'Lt	0.0-3.0	Black Fibrous Peat							277	Visual
		3.0-4.0	0	2	13	62	13	50	16	70	A-7-5
		4.0-6.5	0	4	17	55	13	50	15	78	A-7-5
		6.5-7.5	22	11	22	20	13	NP	NP	28	A-2-4
8+70	30'Rt	0.0-2.0	Black Fibrous Peat							431	Visual
		2.0-4.0	Black Clayey Silt, Organic							99	Visual
		4.0-7.0	Brown Hurly Sedimentary Peat							100	Visual
8+85	21'Lt	0.0-2.0	Black Fine-Textured Peat							210	Visual
		2.0-4.0	Brown Hurly Sedimentary Peat							101	Visual
		4.0-7.0	Brown Clayey Silty Sand, Trace of Gravel							28	Visual
8+90	60'Rt	0.0-2.0	Black Fibrous Peat							191	Visual
		2.0-4.0	Black Clayey Silt, Organic							96	Visual
		4.0-6.0	Gray Clayey Silty Sand, Trace of Gravel							13	Visual
9+25	11'Rt	2.0-4.0	Brown Sedimentary Peat							145	Visual
		4.0-6.0	Gray Sandy Clayey Silt							23	Visual

DRIVE SAMPLE SOIL TEST DATA

SR 200

STATION & OFFSET		DEPTH FROM-TO	# AGG.	# C.S.	# F.S.	# SILT	# CLAY	L.L.	P.I.	# W.C.	SOIL CLASS.
376+30	8'Rt	5.0-6.0	0	5	11	53	42	41	19	29	A-7-6
		10.0-11.0	7	15	31	15	43	32	12	15	A-6a
		12.5-13.5	22	34	11	15	17	32	9	23	A-2-4
		15.0-16.0	34	34	10	11	11	NP	NP	20	A-1-b
		17.5-18.5	38	22	15	10	15	32	15	20	A-1-b
		20.0-21.0	Brown Clayey Gravelly Sand							20	Visual
		22.5-23.5	Brown Clayey Gravelly Sand							12	Visual
		25.0-26.0	45	16	12	20	16	23	4	15	A-2-4
		27.5-28.5	18	17	21	21	13	23	5	15	A-2-4
		30.0-31.0	16	35	23	19	11	NP	NP	17	A-1a
		32.5-33.5	33	26	16	17	8	NP	NP	11	A-1-a
		35.0-35.3	5	16	10	26	16	NP	NP	16	A-1a
		35.3-40.0	15	20	21	23	9	NP	NP	9	A-1-b
		40.0-45.0	32	19	15	23	9	23	4	9	A-2-4
		45.0-55.3	NP	16	11	17	8	23	4	11	A-1-b
		60.0-61.0	0	5	29	39	9	NP	NP	15	A-4a

SP 200 (Cont'd)

STATION & OFFSET		DEPTH FROM-TO	# AGG.	# C.S.	# F.S.	# SILT	# CLAY	L.L.	P.I.	# W.C.	SOIL CLASS.
381+60	83'Lt	5.0-6.0	5	8	17	29	41	28	11	12	A-4a
		10.0-11.0	20	7	14	21	38	34	13	23	A-6a
		15.0-16.0	Brown Gravelly Sandy Clay							16	Visual
		20.0-21.0	Gray Sandy Silt							13	Visual
		25.0-26.0	17	12	19	25	27	19	2	10	A-1a
		27.5-28.5	16	10	19	23	32	24	3	11	A-1a
		30.0-30.7	27	9	16	25	23	23	4	10	A-1a
		32.5-33.5	9	12	20	35	24	21	4	10	A-1a
		35.0-35.3	9	12	19	38	22	25	9	11	A-1a
		37.5-37.9	Brown Silty Sandy Gravel							10	Visual
		40.0-40.5	18	17	19	13	33	11	20	3	11	A-1-b
		42.5-43.0	Brown Silty Sandy Gravel							9	Visual
		45.0-45.0	23	25	12	19	21	NP	NP	11	A-2-4
		47.5-48.5	Brown Silty Sandy Gravel							10	Visual
		50.0-50.7	9	10	16	-	27	NP	NP	14	A-2a
		55.0-55.3	Brown Silty Sandy Gravel							16	Visual
		60.0-60.5	29	9	14	14	6	NP	NP	22	A-1-b
382+21	80'Rt	5.0-6.0	16	9	14	31	30	22	5	13	A-1a
		10.0-11.0	9	9	16	34	31	23	7	12	A-1a
		15.0-16.0	6	7	24	37	26	20	4	11	A-1a
		20.0-21.0	36	20	27	-	17	NP	NP	11	A-1-b
		25.0-26.0	28	28	9	16	19	18	3	9	A-1-b
		30.0-31.0	23	9	10	25	33	23	6	7	A-1a
		35.0-35.6	16	12	16	28	28	23	7	10	A-1a
		37.5-37.7	37	8	13	25	26	23	6	9	A-1a
		40.0-41.0	Brown Sandy Gravelly Silt							11	Visual
		42.5-43.5	33	15	13	23	17	23	7	8	A-1a
		45.0-46.0	31	11	10	28	20	23	6	12	A-1a
		47.5-48.0	28	15	10	23	19	20	9	10	A-1a
		50.0-50.3	Brown Sandy Gravelly Silt							11	Visual
		55.0-55.6	15	15	11	20	16	NP	NP	9	A-2-4
		60.0-61.0	22	28	24	19	10	NP	NP	15	A-2-4
382+55	77'Rt	5.0-6.0	0	0	6	57	37	34	12	21	A-6a
		10.0-11.0	16	4	11	37	30	30	12	26	A-6a
		15.0-16.0	Brown Gravelly Sandy Silt							10	Visual
		20.0-21.0	30	2	22	36	9	NP	NP	17	A-4a
		22.5-23.5	0	2	28	63	11	NP	NP	17	A-4a
		25.0-30.0	0	3	30	46	21	23	7	11	A-4a
		27.5-28.5	10	0	16	46	28	25	10	12	A-4a
		30.0-31.0	31	11	17	15	26	20	13	16	A-6a
		32.5-37.0	0	7	10	45	38	28	9	11	A-4a
		37.5-38.5	0	2	10	43	30	29	8	11	A-4a
		40.0-41.0	28	33	33	-	9	NP	NP	12	A-3a
		45.0-45.0	34	33	28	-	11	NP	NP	9	A-3a
		50.0-51.0	30	43	16	-	9	NP	NP	12	A-1-b
383+80	70'Lt	10.0-11.0	Brown Sandy Gravel & Stone Fragments							11	Visual
		15.0-16.0	Brown Sandy Gravel & Stone Fragments							10	Visual
		20.0-21.0	Gray Sandy Gravel & Stone Fragments							9	Visual
		22.5-23.5	63	22	8	-	7	NP	NP	9	A-1-a
		25.0-26.0	Gray Sandy Gravel & Stone Fragments							11	Visual
		27.5-28.5	28	38	13	-	10	NP	NP	12	A-3a
		30.0-30.0	3	30	30	-	19	NP	NP	15	A-3a
		32.5-33.0	0	17	37	-	17	NP	NP	21	A-3a
		35.0-35.0	14	21	35	-	17	NP	NP	21	A-3a
		37.5-38.0	22	30	3	-	8	NP	NP	10	A-1-a
400+00	23'Rt	5.0-6.0	0	3	7	35	55	23	8	26	A-4a
		7.5-8.5	39	29	13	-	21	NP	NP	17	A-1-b
		10.0-11.0	38	25	13	-	15	NP	NP	13	A-1-b
		12.5-13.5	7	15	47	-	11	NP	NP	11	A-3a
		15.0-16.0	16	7	7	19	12	19	7	11	A-2-4
		20.0-20.0	Brown & Gray Silty Gravel W/Stone Fragments							12	Visual
		26.0-26.0	Gray Silty Gravel W/Stone Fragments							6	Visual
		30.0-31.0	Gray Silty Gravel							8	Visual
		35.0-36.0	43	33	15	-	9	NP	NP	10	A-1-b
		40.0-41.0	26	12	12	-	6	NP	NP	7	A-1-a
		45.0-46.0	41	24	17	-	8	NP	NP	12	A-1-b
		50.0-51.0	36	31	21	-	12	NP	NP	12	A-3a
		55.0-56.0	51	28	10	-	12	NP	NP	12	A-1-b
		60.0-61.0	37	29	21	-	13	NP	NP	7	A-1-b
		65.0-66.0	65	18	7	-	10	NP	NP	7	A-1-a
		70.0-71.0	Brown Gravel and Stone Fragments							8	Visual

Not a part of this Contract

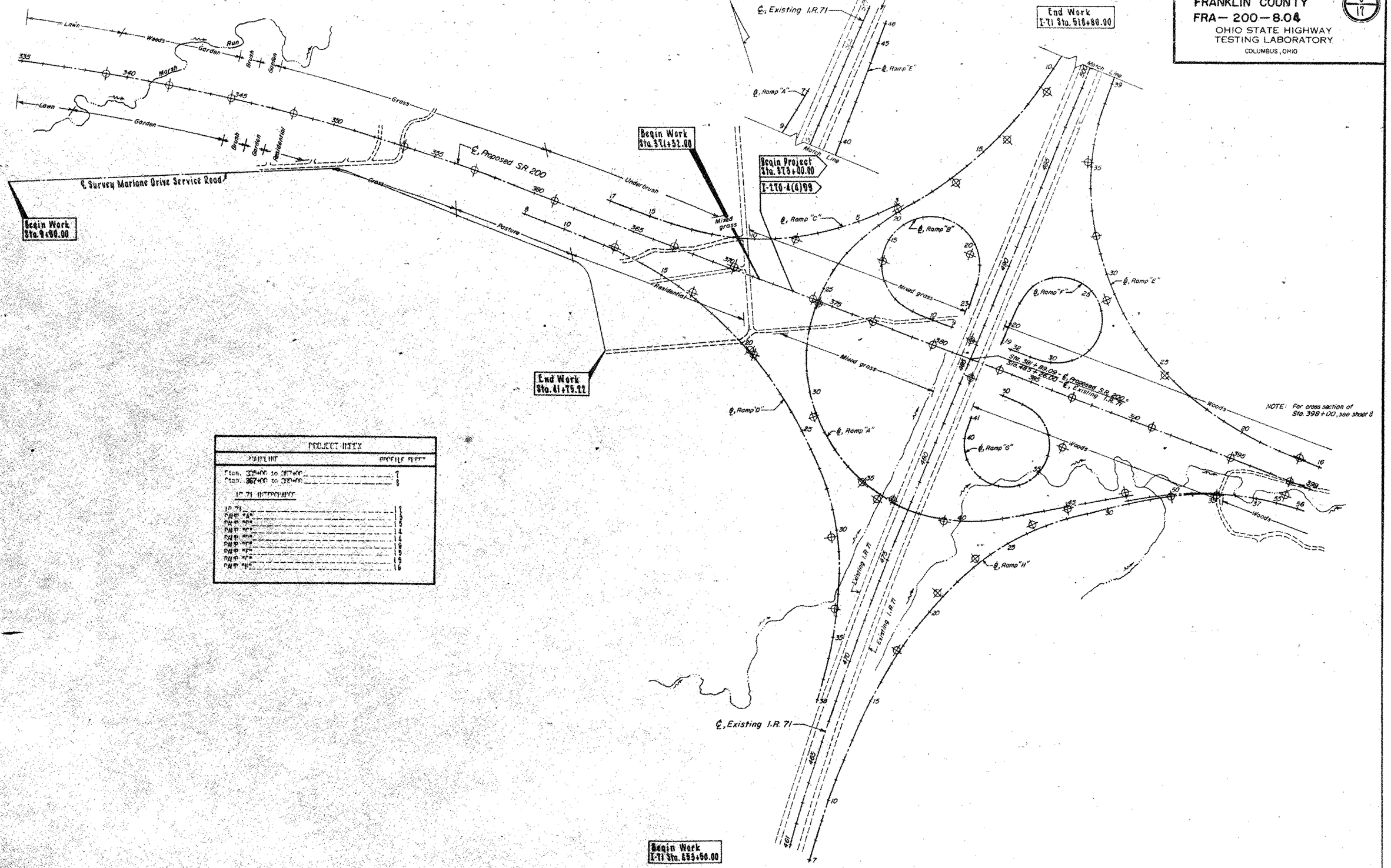
STATION & OFFSET		DEPTH FROM-TO	# AGG.	# C.S.	# F.S.	# SILT	# CLAY	L.L.	P.I.	# W.C.	SOIL CLASS.
					I. R. 71 INTERCHANGE						
					Ramp "A"						
39+65	10'Lt	5.0-6.0	13	7	13	27	40	33	11	23	A-6a
		10.0-11.0	36	23	11	11	19	33	13	23	A-6a
		15.0-16.0	6	7	25	37	25	23	8	15	A-6a
		20.0-21.0	9	8	15	33	35	25	9	11	A-6a
		25.0-26.0	9	10	13	35	33	26	9	11	A-6a
		30.0-31.0	11	7	15	39	28	25	6	12	A-6a
		32.5-33.5	36	10	10	29	15	23	4	12	A-6a
		35.0-36.0	9	6	13	39	33	26	7	13	A-6a
		37.5-38.5	9	8	13	33	37	26	7	12	A-6a
		40.0-41.0	17	7	8	33	35	25	12	15	A-6a
		42.5-43.5	10	7	13	39	31	25	11	15	A-6a
		45.0-45.0	0	11	13	29	47	31	11	15	A-6a
		47.5-48.5	0	2	11	33	54	31	9	16	A-6a
		50.0-51.0	0	2	11	35	52	31	11	15	A-6a
		55.0-56.0	0	2	13	35	50	31	11	15	A-6a
		60.0-61.0	0	5	15	35	45	31	11	15	A-6a
		65.0-65.5	5	26	23	25	21	25	6	17	A-4a
		70.0-70.7	45	22	6	15	12	23	4	11	A-2-4
					SR 104						
10+11	18'Lt	5.0-6.0	0	1	1	55	43	35	6	23	A-4a
		7.5-8.5	0	1	2	55	42	37	5	22	A-4b
		10.0-11.0	0	1	1	60	38	32	5	19	A-4a
		12.5-13.5	61	17	12	-10-		NP	NP	13	A-1-a
		15.0-16.0	Brown Sandy Gravelly Silt							15	Visual
		17.5-18.5	33	9	13	30	25	21	6	11	A-2-4
		20.0-21.0	Gray Silty Gravel							11	Visual
		22.5-23.5	50	13	9	15	13	17	2	12	A-2-4
		25.0-26.0	Gray Stone Fragments							9	Visual
		30.0-31.0	26	10	15	20	14	22	7	13	A-1a
		35.0-36.0	15	7	10	30	34	33	6	12	A-1a
		40.0-40.1	15	11	14	19	22	NP	NP	12	A-1a
51+12	18'Lt	5.0-6.0	24	13	15	15	25	21	7	13	A-1a
		7.5-8.5	Brown & Gray Sandy Silt W/Stone Fragments							9	Visual
		10.0-10.4	22	12	15	23	28	23	3	11	A-1a
		12.5-12.9	29	9	12	27	23	23	2	13	A-1a
		15.0-15.5	23	14	23	21	19	23	4	9	A-2-4
		17.5-17.9	38	13	11	17	21	19	2	13	A-1a
		20.0-20.5	32	16	16	16	20	17	2	13	A-1a
		22.5-23.0	32	12	13	28	23	23	7	11	A-1a
		25.0-25.0	7	7	17	33	36	25	12	13	A-6a
		27.5-28.5	23	8	13	30	26	26	11	14	A-6a
		30.0-31.0	16	7	17	33	27	25	11	14	A-6a
		35.0-35.3	23	7	16	33	21	25	9	13	A-1a
		35.0-41.0	0	12	19	39	30	21	7	15	A-1a

Not a part of this Contract

STATION & OFFSET		DEPTH FROM-TO	# AGG.	# C.S.	# F.S.	# SILT	# CLAY	L.L.	P.I.	# W.C.	SOIL CLASS.
					USR 23 INTERCHANGE						
					Ramp "L"						
0+40	23'Rt	5.0-6.0	7	35	15	-	15	NP	NP	15	A-3a
		7.5-8.5	0	7	68	-	25	NP	NP	33	A-3a
		10.0-11.0	0	7	69	-	24	NP	NP	35	A-3a
		12.5-13.5	2	16	60	-	22	NP	NP	29	A-2a
		15.0-16.0	0	1	36	-	63	NP	NP	23	A-3a
		17.5-18.5	0	1	52	-	47	NP	NP	23	A-3a
		20.0-21.0	0	0	56	29	15	NP	NP	21	A-4a
		22.5-23.5	0	1	16	36	47	NP	NP	15	A-4b
		25.0-25.0	0	0	3	38	59	NP	NP	19	A-4b
		30.0-31.0	0	0	0	28	72	NP	NP	19	A-4b
		35.0-37.0	0	1	19	-	9	NP	NP	19	A-1-a
		40.0-41.0	35	7	3	-	5	NP	NP	7	A-1-a
		45.0-46.0	0	5	3	15	35	22	6	11	A-4a
		50.0-51.0	0	6	11	-	17	NP	NP	9	A-2-4
		55.0-56.0	25	10	7	-	10	NP	NP	11	A-1-a
		60.0-61.0	25	17	7	-	10	NP	NP	6	A-1-a
15+61	23'Rt	5.0-6.0	22	8	11	10	31	31	10	23	A-6a
		7.5-8.5	Brownish-Gray Sandy Gravelly Clay							23	Visual
		10.0-11.0	0	10	39	-	26	NP	NP	23	A-2a
		12.5-13.5	11	31	15	-	21	NP	NP	16	A-2a
		15.0-16.0	7	51	24	-	18	NP	NP	16	A-2a
		17.5-18.5	2	55	26	-	23	NP	NP	16	A-2a
		20.0-21.0	21	42	21	-	16	NP	NP	15	A-2a
		22.5-22.5	7	29	38	-	21	NP	NP	23	A-2a
		25.0-25.0	0	0	77	-	23	NP	NP	23	A-2a
		30.0-31.0	0	1	87	-	12	NP	NP	23	A-2a
		35.0-36.0	0	0	11	29	60	NP	NP	16	A-4a
		40.0-41.0	0	0	10	61	29	NP	NP	23	A-4b
		45.0-46.0	0	0	67	25	8	NP	NP	23	A-2a
		50.0-51.0	0	0	2	71	27	NP	NP	19	A-4b
		55.0-56.0	0	1	45	43	11	NP	NP	20	A-4a
		600-610	Gray Silty Sand Gravel W Stone Fragments							9	Visual
		650-660	Gray Silty Sand Gravel								Visual
		700-710	54	25	10	-15-		NP	NP	9	A-1-b

SOIL PROFILE
FRANKLIN COUNTY
FRA — 200 — 8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

6
17



NOTE: For cross section of Sta. 398+00, see sheet 8

PROJECT INDEX

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SOIL PROFILE
FRANKLIN COUNTY
FRA -200-8.04

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

7/17

770
760
750
740
730

℄ Sod +0.2'
14
12
Refusal

℄ Sod+0.2'
10
Refusal
Refusal
(Hand auger)
(Hole caved in at elev. 737.8')

℄ Sod +0.3'
15
10
Refusal
(Boulders)

℄ Sod+0.3'
18
11
Refusal
(Boulders)

℄
11
10
Refusal
(Boulders)

℄ Sod+0.3'
14
7
8
Refusal
(Boulders)

Not a part of this Contract

℄ Sod+0.3'
14
10
9
9

100' Rt
15
13
11
Refusal
(Boulders)

℄ 760
11
13
Refusal

335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

8/17

Begin Project Sta. 373+00

Begin Work Sta. 371+92.80

Proposed grade Ramp "A"

Clayey gravelly sand

Brown silty sandy gravel

Brown gravelly sandy clay

Organic sandy silt

Brown sandy gravelly silt

Brown sandy gravelly silt

Hole caved in at elev. 730.0'

Hole caved in at elev. 732.2'

Hole caved in at elev. 735.5'

Hole caved in at elev. 728.7'

Hole squeezed in at elev. 698.8'

Hole squeezed in at elev. 698.8'

Slightly organic

* = 4" Penetration

* = 2" Penetration
** = 4" Penetration
*** = 6" Penetration

* = 1" Penetration
** = 4" Penetration

Refusal

Refusal (Boulders)

Refusal (Boulders)

Refusal (Boulders)

Refusal (Boulders)

Cross Section
Sta. 398+00

Proposed grade, Ramp "E"

Proposed grade, S.R. 200

Approximate ground line

760 750 740 730 720 710 700 690 680

367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399

730 720 710 700 690 680 670

130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90

SOIL PROFILE
FRANKLIN COUNTY
FRA– 200–8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS OHIO

9/17

End Work
Sta. 66+75.00

End Project
Sta. 448+00.00

FRA-200-8.66

I-270-4(4)99

FRA-200-8.04

℄ Proposed Channel Relocation

℄ Proposed S.R. 104

℄ Proposed S.R. 200

Sta. 420+26.42 = ℄ Proposed S.R. 200
Sta. 50+00 = ℄ Proposed S.R. 104

Existing S.R. 104

Riding Academy (Wooded)

Woods

Soybeans

Weeds

Grass & Weeds

Corn

Pond

SCIOTO RIVER

NOTE: For profile of Proposed S.R. 104, see sheet 17

Begin Work
Sta. 37+15.00

End Work
Sta. 449+50

SOIL PROFILE
FRANKLIN COUNTY
FRA -200- 8.04

10/17

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

Proposed grade, S.R. 104

℄ TS = 0.5' 12 13 10 9 10 11 11

℄ TS = 0.5' 17 21 15 10 10 Hole caved in at elev. 690.7

℄ TS = 0.5' 10 10

℄ TS = 0.5' 15 13 9 9

℄ Soil = 0.5' 24 14 17 16

℄ TS = 0.5' 15 16 16 12 9

℄ TS = 0.5' 16 12 10 8 7

℄ TS = 0.8' 19 19 25 14 11 Hole squeezed in at elev. 677.2

77' Rt. 21 26 10 17 11 12 10 11 11 12 9 12

Brown gravelly sandy silt

℄ TS = 0.8' 25 19 63 3/10 Refusal (Boulders) (Hand auger)

740 730 720 710 700 690 680 670 660 650 640

399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04

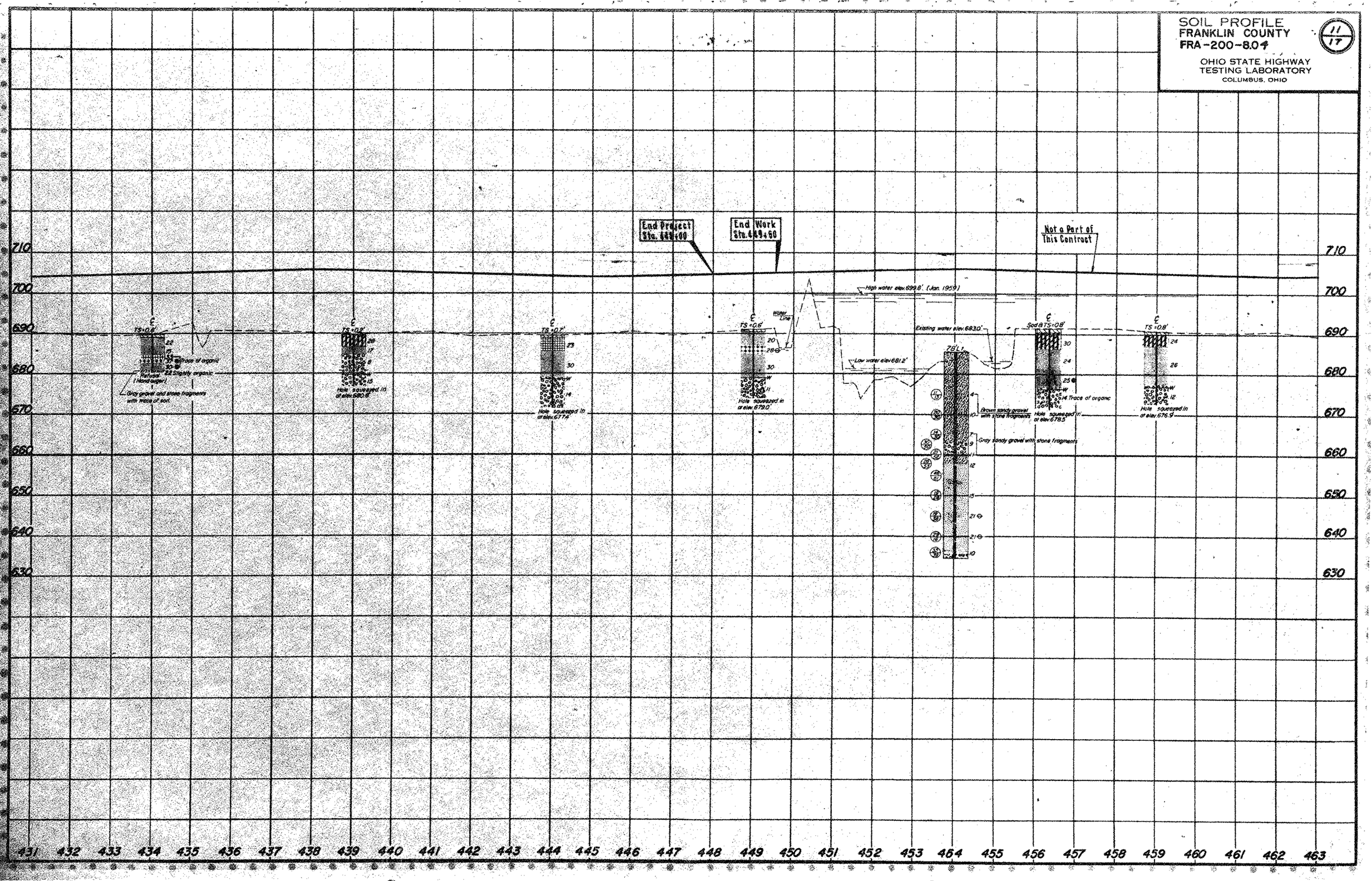
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

11
17

End Project
Sta. 433+00

End Work
Sta. 449+60

Not a Part of
This Contract



SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

12
17

760
750
740
730
720
710
700
690
680

(Sta. 36+65-10'Lt., Proposed Ramp 'A')
65' Lt.

Proposed grade of Ramp 'A'

27
22
10
11
11
12
12
15
16
15
18
19
16
17
21

*=3" Penetration

(Sta. 382+21-80'Rt., Proposed S.R.200)
36'Rt.

Proposed grade of S.R.200

13
12
11
11
9
7
10
5
8
8
12
10
11
9
13

Brown sandy gravelly silt

Brown sandy gravelly silt

*=1" Penetration
**=4" Penetration

(Sta. 381+60-85'Lt., Proposed S.R.200)
32' Lt.

12
23
16
13
10
11
10
10
11
10
11
9
8
14
10
22

Brown gravelly sandy clay

Gray sandy silt

Brown silty sandy gravel

Brown silty sandy gravel

Brown silty sandy gravel

Brown silty sandy gravel

*=2" Penetration
**=6" Penetration
***=5" Penetration

193' Lt. Sta. 0+3

13
14
15
12

Existing I.R. 71

470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

13/17

760
750
740
730
720
710
700
690

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

35'Lt. Sod=0.2'
16 13 10

37'Lt. Sod=0.5'
18 18 9 16

30'Lt. Sod=0.5'
12 13 8 10 9

15'Rt. Sod=0.5'
22 30 14 11

(Sta. 374+33-8' Rt., Proposed S.R.200)
(Sta. 374+00-℄, Proposed SR 200)

4' Lt.
20 15 6.5 20 20 12 14 18 17 11 18 9 9 11 15
*=4" Penetration

25'Rt. Sod=0.3'
17 10
Refusal
Proposed grade, S.R.200
Clayey gravelly sand

20'Rt. Sod @ TS=0.4'
15 10 12 13

5'Rt. Sod @ TS=0.3'
12 14 9 10
Refusal (Boulder)

25'Rt. Sod=0.2'
16 21 9 8 12

10'Lt.
87 22 10 11 11
*=3" Penetration

Ramp 'A' (I.R.71)

54 55 56 57 58

10'Rt. Sod=0.2'
Refusal (Boulder)

(Sta. 86+45-27' Lt. Proposed Ramp "H")
5.5'Rt. TS=0.5'
12 18 13 13

(Sta. 88+15-48' Lt. Proposed Ramp "H")
10'Rt. TS=0.5'
14 12 8 10 9 9

(Sta. 32+55-33' Lt. Proposed Ramp "H")
35'Rt. TS=0.5'
12 18 12 9 9
Hole caved in at elev. 703.6'

(Sta. 33+10-℄ Proposed Ramp "H")
5'Rt. TS=0.5'
19 15 10 9

(Sta. 35+15-[illegible] Proposed Ramp "H")
51'Rt. TS=0.5'

(Sta. 398+00-70'Rt. Proposed S.R. 200)
42' Lt. TS=0.5'
15 19 13 10 10 13
Slightly organic

Ramp 'A' (I.R.71)

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

14/17

(Sta.361+00, ℄ Proposed S.R.200)
100' Lt.
Sod=0.3'
14 / 10 / 9 / 9

(Sta.364+40, 100' Rt. Proposed S.R.200)
8' Lt.
15 / 13 / 11
Refusal (Boulders)

(Sta.367+00, ℄ Proposed S.R.200)
145' Lt.
11 / 13
Refusal

(Sta.368+80-170' Rt, Proposed S.R.200)
15' Lt.
Sod=0.2'
14 / 11
Refusal (Boulders)

5' Lt.
Sod @ TS=0.4'
16 / 10 / 11
Refusal (Boulders)

(Sta.372+30-340' Rt, Proposed S.R.200)
8' Lt.
Sod=0.2'
14 / 11
Refusal

(Sta.31+15-20' Rt Proposed, Ramp "A")
67' Lt.
Sod @ TS=0.4'
15 / 10 / 12 / 13

(Sta.35+00-5' Rt, Proposed Ramp "A")
165' Lt.
Sod @ TS=0.3"
12 / 14 / 9 / 10
Refusal (Boulders)

30' Rt.
Sod=0.3'
18 / 19 / 8 / 17 / 11 / 16

10' Rt.
Sod=0.2'
13 / 18 / 14 / 11 / 10
Trace of organic

760 750 740 730 720 710

0 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

Ramp 'D'
(I.R.71)

(Sta.367+00-℄, Proposed Ramp "A")
12' Lt.
Sod=0.5'
22 / 30 / 11
Refusal

8 / 9
Refusal

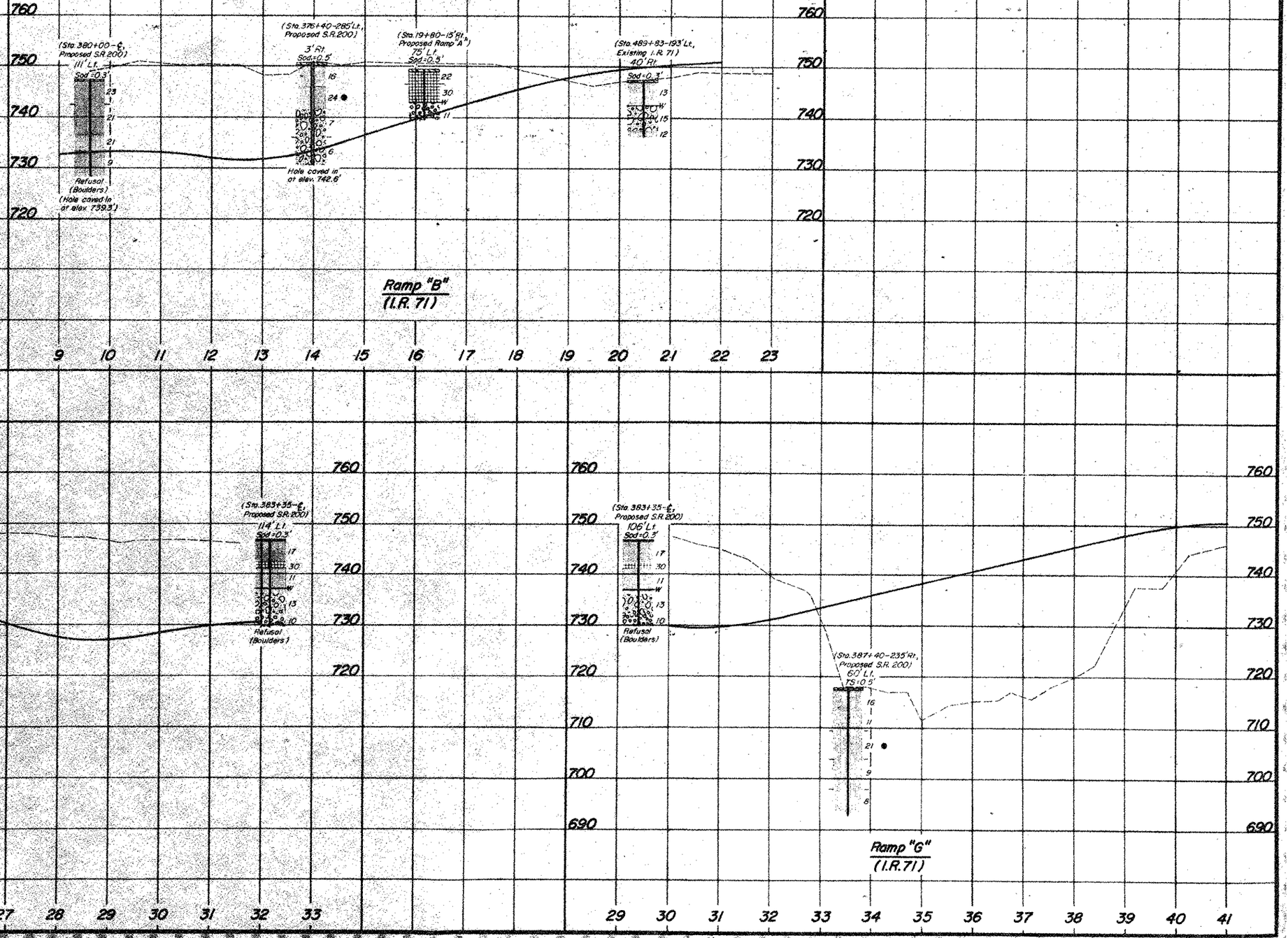
13
Refusal

750 740 730

Ramp 'C'
(I.R.71)

SOIL PROFILE.
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

15/17



SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

16/17

Ramp 'H'
(I.R.71)

12'Lt. Sod=0.4
30'Lt. TS=0.4
25'Lt. TS=0.5
27'Lt. TS=0.5
45'Lt. TS=0.5
55'Lt. TS=0.5
℄ TS=0.5'
5'Rt. TS=0.5'
42'Lt. TS=0.5'
Approximate ground line — (Sta.398+00-70'Rt. Proposed S.R.200)
Hole caved in at elev. 706.8'
Slightly organic

Ramp 'E'
(I.R.71)

10'Lt. Sod=0.5'
45'Lt. TS=0.5'
℄ TS=0.5'
20'Lt. TS=0.6
(Sta.395+00-℄ Proposed S.R.200)
42'Lt. Sod=0.5'
(Sta.398+00-118'Lt. Proposed S.R.200)
5'Rt. TS=0.5'
Refusal (Boulders)

SOIL PROFILE
FRANKLIN COUNTY
FRA-200-8.04

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

17/17

740
730
720
710
700
690
680
670
660

Proposed grade S.R. 200

18' L.I.

Brown sandy gravelly silt

Gray silty gravel

Gray shale fragments

18' L.I.

Brown and gray sandy silt with stone fragments

w = 4" penetration
# = 5 penetration

Proposed S.R. 104

35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67