FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	

1/24

POR 224-2.29

APR 7 1964
GROUND PHOTOLAB

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
POR 224- 2.29
SUFFIELD TOWNSHIP
PORTAGE COUNTY

LIMITED ACCESS— This improvement is especially designed for through traffic and has been declared a limited acces highway or freeway by action of the Director of Highways in accordance with the 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 maintainence and safety of traffic will be as set forth on the plans.

Approved Carl L. Campbell
Date 5-8-62 Division Deputy Director

Approved
Date Engineer Of Bridges

Approved W. Newman
Date 6-11-62 Engineer of Location & Design

Approved C.W.M. Caughey
Date 6-12-62 Deputy Director of Design & Construction

Approved W. W. Gunn
Date 6-8-62 Deputy Director of Right of Way

Approved Guy E. Keeper
Date 6-15-62 Deputy Director of Planning & Programming

Approved J. A. Berry
Date 6-15-62 First Assistant Director

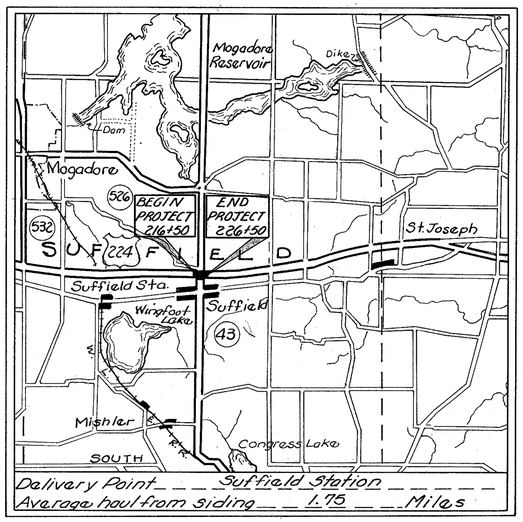
Approved E. A. Preston
Date 6-15-62 Director of Highways

CONVENTIONAL SIGNS

State Line
County Line
Township Line
Section Line
Center Line
Corporation Line
Fence Line
Guard Rail (existing)
Guard Rail (proposed)
Railroad
Power Poles
Telephone Poles
Trees (existing)
Trees (to be removed)

INDEX OF SHEETS

Title Sheet	1
Typical Sections	2
Notes	3
Summary Of Quantities	4
General Summary	5
Plan & Profile	6 - 9
Cross Sections	10 - 23
Approach & Intersection Details	24
Right Of Way	24 A



LOCATION MAP

SCALE OF MILES

0 1/2 1 2 3 4

Portion to be improved
State Roads
Other Roads

SCALE

Plan	1" = 50'
Profile Horizontal	1" = 50'
Profile Vertical	1" = 5'

LINE DATA

Begin Project	Sta 216 + 50	
End Project	Sta 226 + 50	
Net Length Of Project	1,000.00 Lin Ft. Or	0.189 Miles
Begin Work	Sta 211 + 25	
End Work	Sta 235 + 75	
Net Length Of Work	2,450 Lin Ft. Or	0.464 Miles

Supplemental Prints Of Standard Construction Drawings					
RI-1	7-15-58	0.S.-2	12-17-56	L-1	4-1-50
DR-1	1-3-55	I-1	11-15-60	HWE	11-15-60
T-35	1-2-56	I-8CB 2-2A|B 3259		I-8CB 2-3224	1-26-59
B-T-71R	3-2-53	F-2	10-1-58		
L.J. No.1	7-1-55	I-21-23	8-1-56		
T-J	9-12-60	G-7.07	6-1-56		
L-3	4-1-50	B-T-70-71	11-15-60		
L-3-A	4-1-50				

Supplemental Specifications
18 R-6-15-59

File No.	PORTAGE COUNTY POR 224-2.29
	Date of Letting 196
	Contract No.

APR 7 1964
GROUND PHOTOLAB

TITLE SHEET

UTILITIES
The Ohio Bell Telephone Company
The Ohio Edison Company
The Standard Oil Company

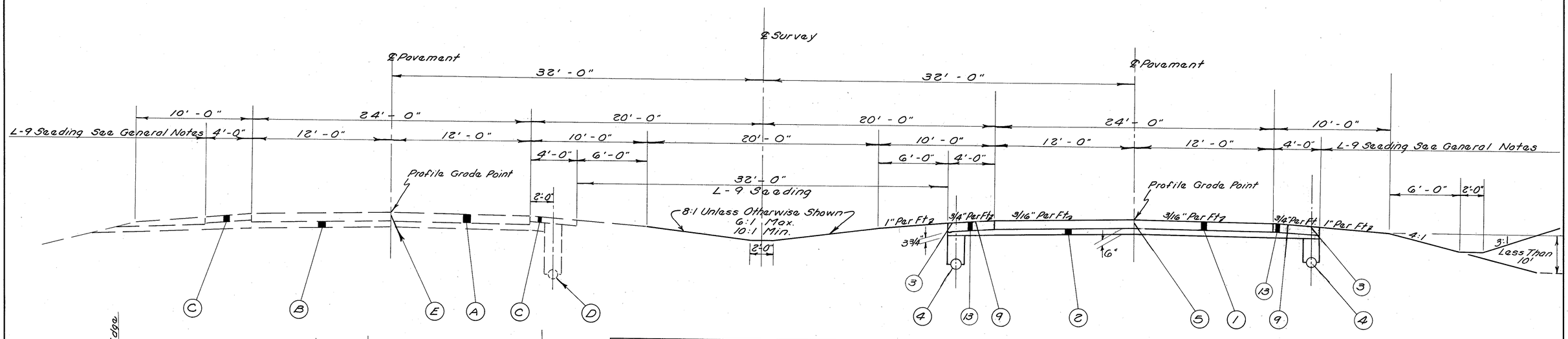
TYPICAL SECTIONS
TYPE T-71
SCALE 1/4" = 1'-0"

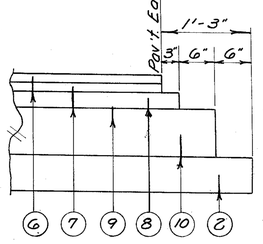
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

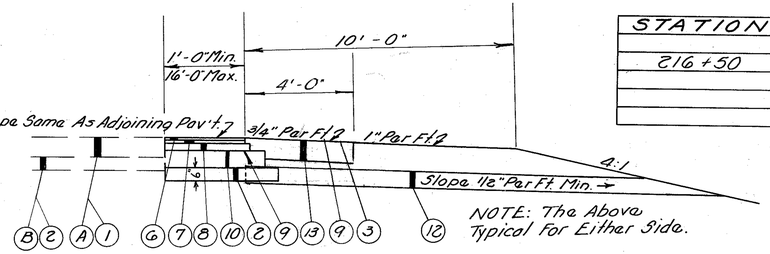
C 24

POR 224-2.29

DESIGN SPEED 60 M.P.H.







NOTE: The Above Typical For Either Side.

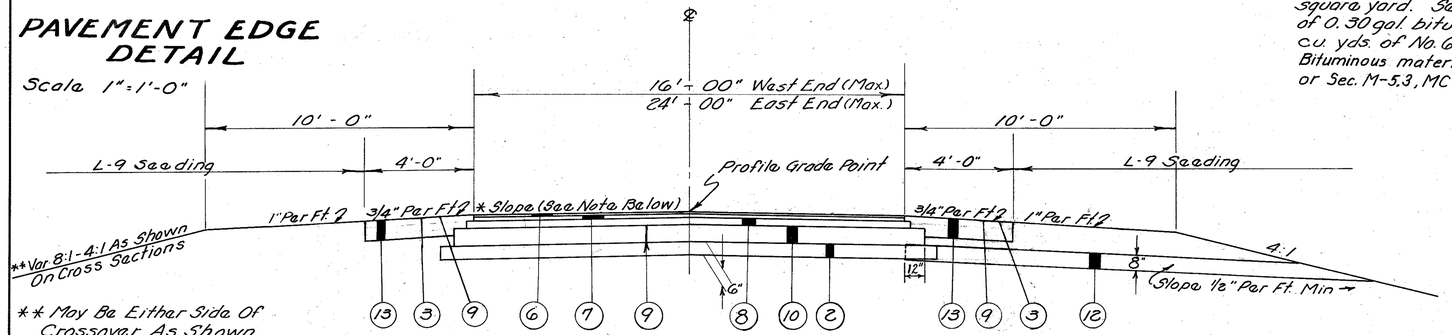
STATION	STATION	LIN. FT.
216+50	226+50	1000.00
	TOTAL	1000.00

** T-31 Surface Treatment. First course will consist of 0.30 gal. bituminous material and 0.008 cu yds. No. 46 aggregate per square yard. Second course will consist of 0.30 gal. bituminous material and 0.008 cu yds. of No. 6 aggregate per square yard. Bituminous material shall be Sec. M-5.7, RT-8 or 9 or Sec. M-5.3, MC-4 or 5.

NOTE: For Berms And Slopes Details Not Shown See Standard Drawing RI-1.

PAVEMENT EDGE DETAIL
Scale 1" = 1'-0"

MEDIAN CROSSOVER & TRANSITION DETAIL
Scale 3/8" = 1'-0"



** May Be Either Side Of Crossover As Shown In The Cross Sections

STATION	STATION	LIN. FT.
211+25.00	218+90.00	765.00
226+50.00	235+75.00	925.00
	TOTAL	1690.00

* NOTE: Throughout the width transition areas of above median crossover, The crown shall match that of the adjacent pavement. The Slope of the pavement shall be 3/16" per ft. unless otherwise shown on the plan.

LEGEND

+ (1) T-71 9" Reinforced Portland Cement Concrete Pavement
(2) I-22 Subbase, Variable Depth
** (3) T-31 Bituminous Surface Treatment
(4) I-1 6" Underdrain Class I-3
(5) Standard Longitudinal Joint
(6) T-35 Δ 1" Asphaltic Concrete Surface Course, Type C (70-85)
(7) B-35 Δ 1 1/2" Asphaltic Concrete Leveling Course (70-85)
(8) B-35 Δ 3" Asphaltic Concrete Base Course (70-85)
(9) T-30 Bituminous Prime Coat, Sec. M-5.7, RT-2 Or RT-3 Applied At the Rate Of 0.40 Gal Per Sq. Yd.
(10) B-19 8" Aggregate Base Course
(12) I-9 Stone Underdrains No. 2
(13) I-18 9" Stabilized Crushed Aggregate Shoulders And Approaches.

(A) (B) 9" Reinforced Portland Cement Concrete Pavement
(B) (C) 6" Subbase
(C) (D) 6" Cement Stabilized Crushed Aggregate Shoulders With T-31.
(D) (E) 6" Underdrain
(E) Standard Longitudinal Joint

Δ NOTE: Thicknesses Shown Are "Designed Thicknesses" As Described In Section T-35.01 And Section B-35.01.

+ See Note On General Notes For Treatment Of Intersection S.R. 43 And U.S. 224

P.F. 536 F.H.T.

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3/24

POR 224-2.29

GENERAL NOTES

DESIGN SPEED

The geometrics for this project have been planned for a design speed of 60 miles per hour.

ELEVATION DATUM

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

FIELD OFFICE

The Contractor shall provide a suitable field office for the exclusive use of State of Ohio personnel in accordance with section S-0.01(b), having a minimum floor space of 150 sq. ft. Sufficient 110 volt 60 cycle A.C. lights shall be provided and maintained to properly and adequately illuminate the office and outlets shall be provided for electric machines such as are used in an office. Proper and adequate sanitary facilities, as approved by the County Board of Health, shall also be provided and maintained.

ROUNDED CORNERS ON CROSS SECTIONS

Straight lines and angles are shown in the sections of this plan. All angles shall be rounded in accordance with Standard Drawing RI-1.

DITCHES

The ditches shall be 18 inches deep measured from the back of the berm unless otherwise shown in the cross sections.

SEEDING AND PROTECTING

Quantities for seeding have been calculated to a line ten feet (10') beyond the work limits shown in the cross sections or to the right-of way line if less than ten feet (10') from the work limits.

TRAFFIC

Unrestricted two way traffic shall be maintained at all times on both routes 43 and 224. Temporary "run arounds" shall be constructed and maintained at the intersection as indicated herein.

SUPERELEVATION

Superelevated curves shall be built without crown. The crown shall be worked between the point of beginning of the transition and the point where the superelevation reaches twice the crown as tabulated in the Superelevation Table.

STONE UNDERDRAINS

Stone underdrains for the median cross over shall be placed as directed by the Engineer on the low side only. Quantities are computed for underdrains of fifty foot intervals.

EXISTING UNDERGROUND APPURTENANCES

The location, size and depth of all pipe and underground utility appurtenances represents the best information obtained, but the State of Ohio does not guarantee the accuracy thereof.

UNDERGROUND DRAINS

Any underground drains encountered carrying uncontaminated effluent shall be provided a free and unrestricted outlet as directed by the Engineer. The cost of any such outletting shall be included in the price bid for E-1 Roadway Excavation.

ACCESS

Access to all properties to S.R. 43 within the limits of the contractors operations shall be maintained at all times.

TEMPORARY CULVERTS

Payment for construction, maintenance and subsequent removal of temporary extensions of culverts required for construction of S-15 Run-around shall be included in the lump sum price for the runaround.

PROPERTY MARKERS

All iron pins or markers within the limits of the project shall be saved and protected. They shall be adjusted to the final completed grade as directed by the Engineer. The cost of adjusting or resetting markers shall be included in the unit price bid for Item E-1 Roadway Excavation.

TREES AND STUMPS

Only the trees and stumps specifically marked for removal by the Engineer shall be removed. Only trees 12 inches in diameter or more, as measured in accordance with Item E-9.01, are included in the tree removal estimate for Item E-9 Removal of Trees and Stumps. The actual number of trees removed may vary from this estimate.

5 trees 12"-18"
2 trees 18"-24"

L-9 SEEDING AND PROTECTING ROADWAY AREAS

The seed mixture for this project shall be as follows:

65% Kentucky 31 Fescue
25% Kentucky Blue Grass
5% Red Top
5% Alsike

The Commercial Fertilizer shall be (12-12-12.)

T-71 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

High Early Strength Cement Sec. M-1.2. shall be used to construct the pavement in the intersection of S.R. 43 & U.S. 224. Quantities are carried on the Intersection Detail. In lieu of Sec. M-1.2, Sec. M-1.4 Cement with Sec. M-1.5 admixtures may be used.

UTILITIES

Any and all work required for removing, relocating and constructing new facilities for private or public utilities will be done by and at the expense of the respective owners unless otherwise noted on the plans.

E-1 COMPACTED SUBGRADE

Quantities of compacted subgrade are provided in the calculations for all transition areas and for stabilized shoulders surface Treated With T-31.

RECAPITULATION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4/24

POR 224-2.29

LINE No.	From Sheet No	E-1 Roadway Exc. C.Y.	E-1 Roadway Emb. C.Y.		E-8 Rem't Dispose Exist Curb L.F.	E-8 Rem't Dispose Exist T-71 Pvm't S.Y.	E-8 Rem't Dispose Exist Gutter L.F.	E-12 Removal Of Pipe 15" & Under L.F.	E-12 Removal Of Pipe Over 15" L.F.		I-1 12" Pipe Class B-1 L.F.	I-1 15" Pipe Class A-1 L.F.	I-1 27" Pipe Cl. A-1 M-6.6(a) M-6.8(b) L.F.	I-2 Masonry (End-wall) C.Y.	I-8 Catch Basin Type 2-2A Each	I-8 Catch Basin Type 2-3 As Per Plan Each	I-8 Mon. Box Adjust To Grade Each	I-10 Dump Rock Channel Prot. C.Y.	I-16 Catch Basin Aban-don Each	I-23 Pre-Cast Traffic Dividr Each		L-9 Seed & Protection S.Y.	L-10 Sod S.Y.	Spec. Move Exist Sign Lump	S-15 Furn & Apply Agg. for Traffic Com. Sur. Course C.Y.	T-35 Asph Conc Surf Course 0"-2" Thick C.Y.	I-18 Stab. Crush Agg C.Y.	S-15 Furn & Apply Calcium Chloride Com. Sur. Course Tons	I-22 6" Sub-base C.Y.	T-71 Rein. Part. Cemint Conc. Pvmt S.Y.	I-1 6" Pipe Cl. F-1 L.F.	I-1 6" Pipe Cl. A-1 L.F.	I-1 6" Pipe Cl. I-3 Deep L.F.	I-1 6" Pipe Cl. I-3 Shallow L.F.		I-1 8" Pipe Cl. F-1 L.F.		I-5 6" x 45° E-11 Each	
1												83	110	0.47	1	1			1	37		9378	1155	Lump											750	950		31			
2	7	7931	944		518	480			108			48			1		2	16		17		7426	1155								10	35		1155		20		2	
3	8	2685	4667				25	30			52						1									4.7	13.9													
4	22							30																	750	1.8		15	155.4	918.2									
5	24	150																																					
TOTAL		10766	5611		518	480	25	60	108		52	131	110	0.47	2	1	3	16	1	54		16804	2310	Lump	750	6.5	13.9	15	155.4	918.2	10	35	750 2855	2105	51		2	

CALCULATIONS

T-35 ASPHALTIC CONCRETE SURFACE COURSE

(Areas By Average Widths Scaled)

2390 S.Y. x 1" / 36 = 66.5 C.Y.

From Recap 6.5 C.Y.

Total 73.0 C.Y. To Sum.

B-35 ASPHALTIC CONCRETE LEVELING COURSE

2390 S.Y. x 1½" / 36 = 99.6 C.Y.

Total 100.0 C.Y. To Sum

B-35 ASPHALTIC CONCRETE BASE COURSE

2500 L.F. (Widening) x .25' / 9 = 70 S.Y.

2390 S.Y. + 70 S.Y. = 2460 S.Y.

2460 S.Y. x 3" / 36 = 205 C.Y.

Total 205 C.Y. To Sum.

B-19 AGGREGATE BASE COURSE 8" THICK

2500 L.F. (Widening) x .50' / 9 = 140 S.Y.

2460 S.Y. + 140 S.Y. = 2600 S.Y.

2600 S.Y. x 8" / 36 = 577.8 C.Y.

Total 580 C.Y. To Sum.

I-22 SUBBASE (VARIABLE DEPTH)

2600 S.Y. x 6" / 36 = 433.3 C.Y.

1545 L.F. x 4' x .406' (Av) / 27 = 92.9 C.Y.

From Recap 155.4 C.Y.

T-71 2666.7 x 6" / 36 = 444.4 C.Y.

1126.0 C.Y.

Total 1130 C.Y. To Sum.

T-71 9" REINFORCED PORTLAND CEMENT CONC. PAV'T.

1000.00 L.F. x 24' / 9 = 2666.7 S.Y.

From Recap 918.2 S.Y.

3584.9 S.Y.

Total 3585 S.Y. To Sum

I-18 STABILIZED CRUSHED AGGREGATE SHOULDERS

Sta	211+25	Rt To	216+65 =	540 L.F.
Sta	214+75	Lt To	222+80	805 L.F.
Sta	216+50	Rt To	222+65	615 L.F.
Sta	223+90	Lt To	232+50	860 L.F.
Sta	224+20	Rt To	235+75	1155 L.F.
Total (Average 4' Wide)				3975 L.F.

3975' x 4' x 9" / 9 x 36 = 441.6 C.Y.

From Recap 13.9 C.Y.

455.5 C.Y.

Total 460 C.Y. To Sum.

T-30 BITUMINOUS PRIME COAT

B-19		2600 S.Y.
I-18	3975 x 4 ÷ 9 =	1767 S.Y.
Drives	4.7 x 18 =	85 S.Y.
		4452 S.Y.

4452 x 0.4 = 1780.8 Gal.

Total 1780 Gal. To Sum.

T-31 BITUMINOUS SURFACE TREATMENT

(Bituminous Material)

1767 S.Y. x .30 Gal x 2 = 1060.2 Gal.

Total 1060 Gal To Sum.

AGGREGATE No. 46

1767 S.Y. x 0.008 = 14.14 C.Y.

AGGREGATE No. 6 - 14.14 C.Y.

14.5 C.Y. To Sum.

L-9 SEEDING & PROTECTING - COMMERCIAL FERTILIZER

16,804 S.Y. x 9 x 20 / 1000 x 100 = 1.51 Tons

Total 1.51 Tons To Sum.

AGRICULTURAL LIMING MATERIAL

16,804 S.Y. x 9 x 100 / 1000 x 2000 = 7.56 Tons

Total 7.56 Tons To Sum.

E-11 WATER

Embankment	5611 C.Y. x 5 Gal. / 1000 =	28.1 M. Gal.
I-22 Subbase	1410 C.Y. x 10 Gal. / 1000 =	14.1 M. Gal.
I-18 Stab. Cr. Agg.	460 C.Y. x 20 Gal. / 1000 =	9.2 M. Gal.
		51.4 M. Gal
Total		52 M. Gal To Sum.

E-1 COMPACTED SUBGRADE

T-35	2390 S.Y.
T-71	3585 S.Y.
I-18 3975' x 4' ÷ 9' =	1767 S.Y.
	7742 S.Y.
Total	7750 S.Y. To Sum.

I-9 STONE UNDERDRAIN

Spaced At 50 Ft. Intervals As Directed By The Engineer.

Estimated 300 L.F.

EARTHWORK CALCULATIONS

Excavation	10,766 C.Y.
Embankment + 50% = 5611 + (2805) =	8,416 C.Y.
SURPLUS	2,350 C.Y.

GENERAL SUMMARY

SPEC. ITEM No.	QUANTITY	UNIT MEAS.	DESCRIPTION
			ROADWAY
E-1	10,766	Cu.Yds.	Roadway Excavation, Method A, As Per Plan
E-1	5611	Cu.Yds.	Embankment, Method A
E-1	7750	Sq.Yds.	Compacted Subgrade
E-8	518	Lin.Ft.	Removal And Disposal Of Existing Curb or Curb and Gutter
E-8	480	Sq.Yds.	Removal And Disposal Of Existing Pavement
E-8	25	Lin.Ft.	Removal And Disposal Of Existing Paved Gutter
E-9	Lump	Lump	Removal Of Trees And Stumps
E-11	52	M Gal.	Water
E-12	60	Lin.Ft.	Pipe Removed, 15" And Under
E-12	108	Lin.Ft.	Pipe Removed, Over 15"
S-15	Lump	Lump	Temporary Runaround, As Per Plan
S-15	750	Cu.Yds.	Furnishing And Placing Aggregate For Traffic Bound Surface Course
S-15	15	Tons	Furnishing And Applying Calcium Chloride
I-8	3	Each	Monument Boxes Adjusted To Grade
L-9	16,804	Sq.Yds.	Seeding And Protecting, As Per Plan
L-9	1.51	Tons	Commercial Fertilizer (12-12-12)
L-9	1.56	Tons	Agricultural Liming Material
L-10	2310	Sq.Yds.	Sodding
Spec.	Lump	Lump	Remove And Rebuild Existing Overhead Sign, As Per Plan
			PAVEMENT
I-18	460	cu.yd.	Stabilized Crushed Aggregate Shoulders and Approaches
I-22	1130	Cu.Yds.	Subbase
I-23	54	Each	Precast White Portland Cement Concrete Traffic Dividers
B-19	580	Cu.Yds.	Aggregate Base Course
B-35	205	Cu.Yds.	Asphaltic Concrete Base Course (70-85)
B-35	100	Cu.Yds.	Asphaltic Concrete Leveling Course (70-85)
T-35	73	Cu.Yds.	Asphaltic Concrete Surface Course, Type C (70-85)
T-71	3585	Sq.Yds.	9" Reinforced Portland Cement Concrete Pavement
T-30	1780	Gal.	Bituminous Prime Coat, Sec. M-5.7, RT 2 Or RT 3
T-31	1060	Gal.	Bituminous Surface Treatment, Bituminous Material, As Per Plan
T-31	15	Cu.Yds.	Bituminous Surface Treatment, No. 4G Aggregate
T-31	15	Cu.Yds.	Bituminous Surface Treatment, No. 6 Aggregate
			DRAINAGE
I-1	2855	Lin.Ft.	6" Pipe, Class I-3
I-1	35	Lin.Ft.	6" Pipe, Class A-1
I-1	10	Lin.Ft.	6" Pipe, Class F-1
I-1	51	Lin.Ft.	8" Pipe, Class F-1
I-1	52	Lin.Ft.	12" Pipe, Class B-1
I-1	131	Lin.Ft.	15" Pipe, Class A-1
I-1	110	Lin.Ft.	27" Pipe, Class A-1, Sec. M-6.6(a) Or M-6.8(b)
I-5	2	Each	6" Pipe Specials Class I-3
I-8	2	Each	Standard No. 2-2A Catch Basins
I-8	1	Each	Standard No. 2-3 Catch Basin, Modified As Per Plan
I-9	300	Lin.Ft.	Stone Underdrains, No. 2
I-10	16	Cu.Yds.	Dumped Rock Channel Protection
I-2	0.5	Cu.Yds.	Masonry
I-16	1	Each	Catch Basin Abandoned

GENERAL SUMMARY

DIST. NO. DIVISION	STATE	PROJECT	
2	OHIO		

POR 224-2.29

5
24

POR 224-2.29

BEGIN SHEET STA 200+00

END SHEET STA 212+00

POLEN AVE.

℄ RHOADES RD.

℄ U.S. 224

℄ Survey

S 88° 10' 00" E

6" Underdrain

Exist. L/A R/W

R/W Fence

BEGIN WORK
STA 211+25

CURVE DATA
Rt. Edge
Cross Over
Δ = 5° 39' 30"
R = 3906.53'
D = 1° 28'
T = 193.05'
L = 385.80'
E = 4.77'

℄ 25 P.C. Right Edge
Median Crossover

B.M. #1 Elev. 1211.40
Iron Pin Mon. On ℄ At Sta. 209+00

℄ Profile Elev
Present & Proposed
Pavements

200	201	202	203	204	205	206	207	208	209	210	211	212
1214.84	1215.17	1215.33	1215.47	1215.61	1215.74	1215.85	1215.96	1216.05	1216.15	1216.21	1216.27	1216.33
1215.01	1215.33	1215.47	1215.61	1215.74	1215.85	1215.96	1216.05	1216.15	1216.21	1216.27	1216.33	1216.37
1216.37	1216.41	1216.44	1216.45	1216.46	1216.48	1216.44	1216.41	1216.37	1216.33	1216.25	1216.18	1216.11
1216.41	1216.44	1216.45	1216.46	1216.48	1216.44	1216.41	1216.37	1216.33	1216.25	1216.18	1216.11	1216.02
1216.02	1215.92	1215.82	1215.70	1215.58	1215.44	1215.29	1215.14	1214.97	1214.79	1214.61	1214.41	1214.21
1215.92	1215.82	1215.70	1215.58	1215.44	1215.29	1215.14	1214.97	1214.79	1214.61	1214.41	1214.21	1214.00
1214.00	1213.76	1213.53	1213.28	1213.03	1212.77	1212.58	1212.57	1212.27	1211.99	1211.68		
1213.76	1213.53	1213.28	1213.03	1212.77	1212.58	1212.57	1212.27	1212.29	1212.01	1211.71		

Left Edge X Over Transition

Right Edge X-Over Transition

1220
1215
1210
1205
1200

Profile & Survey

200	201	202	203	204	205	206	207	208	209	210	211	212
						1213.50	1212.80	1214.91 +92	1212.61 +60	1212.01	1211.56	1210.86	1209.46

LINE SHEET STA 200+00 TO STA 212+00

POR 224-2.29

CURVE DATA
Rt Edge Median
Cross Over
P.I. 19' Lt Sta 213+81.05
Δ = 7° 30' Rt
D = 1° 28'
R = 3906.53'
T = 256.05'
L = 511.36'
E = 8.38'

BEGIN PROJECT
STA 216+50
S.L.M. 2.29

CURVE DATA
Lt Edge Median
Cross Over
P.I. 20' Rt Sta 218+01.26
Δ = 7° 30' Lt
D = 2° 30'
R = 2291.83'
T = 150.21'
L = 300.00'
E = 4.92'

Sta 223+39.43 U.S. 224 =
Sta 5+00 S.R. 43

BEGIN SHEET STA 212+00

END SHEET STA 224+00

L/A ℄

R/W Fence

Existing R/W ℄

Begin ℄ Traffic Markers

Lt Edge X-Over P.C. 0.39' Rt Sta 216+52.34

Lt Edge P.T. 219+51.97

6" Underdrain 2

End Traffic Markers

Overhead Sign

6" Underdrain 1

Sta Outlet

Siphon Control Box

24" CMP

℄ U.S. 224

℄ Survey

℄ Ditch

Existing R/W ℄

Rt Edge Of X-Over P.T. 214.42' Rt & 316+34.91

NOTE:
To Place The I-23 Precast White Portland Cement Traffic Dividers In The Existing T-11 Reinforced Concrete Pavement, That Pavement Shall Be Cut Or Chiseled To A Minimum Depth Of 2¼" To Accommodate The Dividers, Which Shall Then Be Set In A 1:2 Cement Mortar As Shown In Standard Drawing I-21-23, (8-1-56).

NOTE:
Sta 218+40 Remove Existing 40 Ft. Span Overhead Sign, Including The Foundations To A Depth Of 3 Ft. Below Finished Grade. Rebuild And Or Reset Same Overhead Sign Centered On The New Pavement At Sta 218+95 As Directed By The Engineer. After The Sign Is In Its New Position Any Areas With Damaged Paint Shall Be "Touched Up" And The Entire Unit Given One Field Coat Of Paint In Accordance With S.S. The Required Paint Will Be Provided Without Cost To The Contractor By The State Highway Department.
The Lump Sum Bid For The Removal And Restoring The Sign Shall Include All Labor, Tools, Equipment, Material, Etc. Including New Foundations As Detailed On Standard Drawing 03-2

NOTE: For Temporary Run-around Detail For S.R.43 See Sheet No. 24 & No. 22

See Sheet No. 24 For Intersection Details.

B.M. # 2 Elev. 1186.89
Monument On & At Intersection Of S.R. 431 & S.R. 224 At Sta. 223+39.43

SEC. A-A

M A R K	Spec No	ITEM Description	STATION From	STATION To	S I D E	QUAN	UNIT MEAS	ITEM TOTAL
D-1	I-1	27" Pipe C.I.A-1 (At Gore Medians)	222+90	222+80	Rt	110	L.F.	110
D-2	I-1	15" Pipe C.I.A-1	222+80		Rt	83	L.F.	83
R-1	E-12	Remove Pipe Over 15"	222+90	224+08	Rt	108	L.F.	108
R-2	E-8	Remove Curb (3 Returns)	222+45	224+29	Rt	259	L.F.	
R-3	E-8	Remove Curb (4 Islands)	223+00	223+75	Lt & Rt	259	L.F.	518
R-4	E-8	Remove Pvmt. (Full Depth) (S)	222+45	224+29	Rt	480	S.Y.	480
P-1	I-23	Traffic Dividers	213+22.7	217+54.7	Lt	37	Ea	37
T-1	Spec	Remove Relocate Overhead Sign	218+40	218+95	L-R	Lump	Ea	Lump
U-1	I-1	6" Pipe C.I.T-3	216+50	224+50	Rt	750	L.F.	750(0)
U-2	I-1	6" Pipe C.I.T-3	214+50	224+50	Rt	950	L.F.	950(S)

M A R K	Spec No	ITEM Description	STATION From	STATION To	S I D E	QUAN	UNIT MEAS	ITEM TOTAL
					Lt	1	Ea	1
S-1	L-10	Sod	212+00	222+90	Rt	1085	S.Y.	1155
S-2	L-10	Sod	215+75	216+11	Rt	60	S.Y.	
					℄	1	Ea	1
D-3	I-8	No. 2.24 C.B.	222+80		Rt	1	Ea	1
D-4	I-8	No. 2.3 C.B.	222+90		Rt	31	L.F.	31(S)
D-5	I-1	8" Pipe C.I.F-1	222+50	222+80				
H-1	I-2	Masonry Endwall	224+00		Rt	0.47	C.Y.	0.47

Profile & Survey

℄ Profile Elev Present & Proposed Pavement	12.11.90	12.11.60	12.11.29	12.10.95	12.10.63	12.10.27	12.09.92	12.09.56	12.09.17	12.08.79	12.08.39	12.07.99	12.07.57	12.07.14	12.06.71	12.06.26	12.05.81	12.05.34	12.04.86
Left Edge X-Over Transition Con't.																			12.04.18
Right Edge X-Over Transition Con't.																			12.03.96
																			12.03.69
																			12.03.18
																			12.02.67
																			12.02.14
																			12.01.60
																			12.01.06
																			12.00.50
																			11.99.94
Left Edge X-Over Transition Con't.	12.11.68	12.11.41																	
Right Edge X-Over Transition Con't.	12.11.36	12.11.04	12.11.10	12.10.68	12.10.34	12.09.96	12.09.59	12.09.21	12.08.81	12.08.41	12.08.18	12.07.62	12.07.25	12.06.84	12.06.47	12.06.07	12.05.62	12.05.15	12.04.67
	12.10.76	12.10.43	12.10.08	12.09.73	12.09.37	12.08.98	12.08.60	12.08.40	12.07.80	12.07.38	12.06.93	12.06.52	12.06.07	12.05.57	12.05.05	12.04.49			

℄ Profile Elev Present & Proposed Pavement	12.00.46	12.00.18	11.99.96	11.99.36	11.98.76	11.98.14	11.97.51	11.96.87	11.96.23	11.95.57	11.94.91	11.94.22	11.93.54	11.92.84	11.92.14	11.91.46	11.90.69	11.89.95	11.88.21	11.87.46	11.86.71	11.85.95
Left Edge X-Over Transition Con't.																						
Right Edge X-Over Transition Con't.																						
	12.04.37	12.03.96	12.03.37	12.02.86	12.02.33	12.01.79	12.01.25	12.00.69	12.00.13	11.99.54	11.98.96	11.98.36	11.97.76	11.97.14	11.96.51	11.95.87	11.95.23	11.94.57	11.93.91	11.93.22	11.92.54	11.91.84
	12.03.88	12.03.47	12.02.98	12.02.51	12.02.03	12.01.51	12.00.98	12.00.45	11.99.92	11.99.38	11.98.80	11.98.21	11.97.60	11.96.97	11.96.33	11.95.68	11.95.03	11.94.33	11.93.63	11.92.90	11.92.14	11.91.43

Left Edge X-Over Transition Con't.	12.00.46	12.00.18	11.99.96	11.99.36	11.98.76	11.98.14	11.97.51	11.96.87	11.96.23	11.95.57	11.94.91	11.94.22	11.93.54	11.92.84	11.92.14	11.91.46	11.90.69	11.89.95	11.88.21	11.87.46	11.86.71	11.85.95
Right Edge X-Over Transition Con't.																						
	12.04.37	12.03.96	12.03.37	12.02.86	12.02.33	12.01.79	12.01.25	12.00.69	12.00.13	11.99.54	11.98.96	11.98.36	11.97.76	11.97.14	11.96.51	11.95.87	11.95.23	11.94.57	11.93.91	11.93.22	11.92.54	11.91.84
	12.03.88	12.03.47	12.02.98	12.02.51	12.02.03	12.01.51	12.00.98	12.00.45	11.99.92	11.99.38	11.98.80	11.98.21	11.97.60	11.96.97	11.96.33	11.95.68	11.95.03	11.94.33	11.93.63	11.92.90	11.92.14	11.91.43

1210
1205
1200
1195
1190
1185
1180

6.2'
4.6'
(Shallow) F.L. Profile
F.L. Profile (Deep)
Exist 6" Underdrain
Exist 8" Outlet
Top Elev. 1187.2
Top Elev. 1186.25
@ 0.5%
-3.01%
F.L. 1185.08
F.L. 1184.5
F.L. 1183.05
27" I-1 @ 0.50% Rt
With 9"x36" Window
F.L. 1182.50 +00 90° Rt. 27" Cl. A-1
3000' V.C.
P.I. Sta 208+25
Elev. 1233.33

EXC.	7931	C.Y.
EMB.	944	C.Y.
SEED	9378	S.Y.

212 213 214 215 216 217 218 219 220 221 222 223 224

LINE SHEET STA 212+00 TO STA 224+00

8
24

POR 224-2.29

BEGIN SHEET STA 224+00

END PROJECT
STA 226+50
S.L.M. 2.48

END SHEET STA 236+00

Existing R/W

L/A

R/W Fence

6" Underdrain

Over Head Sign

Ex. Mon.

℄ Survey

S88° 10' 00" E

S89° 28' 25" E

N89° 31' 15" E

S 82° 21' 00" E

Paved Gutter

T-71

T-35

24'

451.34'

184°02'

Grove-6"-8" Elms

Existing L/A R/W

C-1 = 9' Wide
2.5' Deep

14" Elm

2-14" Elm
12" Elm

20" Elm

P.C. Sta. 227+29.39

CURVE DATA
P.I. Sta. 230+39.27
Δ = 5° 49' Rt.
D = 0° 56'
R = 6138.84
T = 311.88
E = 7.92 L = 623.21

RIGHT EDGE CURVE DATA
(Cross Over)
Δ = 8° 07' 45" Rt.
D = 1° 28'
R = 3906.53'
T = 238.22'
L = 475.85'
E = 7.26'

P.C. Rt. Edge
D = 1° 28'

14.38' Rt.
102.06

Transition Pavement
Crown to Plane Section
To Meet Adjoining Pav't.

P.T. Sta. 233+50.60

P.T.

1° 28' Arc
77.11' to U-8 224

91.09'

END WORK
STA 235+75

P.I. Rt. Edge
14.30'

P.T. Lt. Edge
+85.78

+52 Begin Planer

76" Outlet

+44 Last Planer

Existing R/W

Exist. 234

Exist. 232

25'

14'

10.01

Spec No.	Item	Description	Station From	Station To	Quan S or E	Quan Mes	Unit	Item Total
A								
D-1	I-8	No. 2 A.C.B.	231+00		1		Ea.	1
D-2	I-1	15" Pipe (1.4)	231+00		48		Lf.	48
U-1	I-1	6" Pipe CL(3	224+00	230+90	690		Lf.	
U-3	I-1	6" Pipe CL(3	224+00	227+92	392		Rt.	
U-6	I-1	6" Pipe CL(3	231+75	232+48	73		Lf.	155(6)
U-8	I-1	6" Pipe CL(1	230+90	231+00	10		Lf.	10
U-4	I-1	8" Pipe CL(1	227+92	228+00	10		Rt.	
U-9	I-1	8" Pipe CL(1	232+70	232+78	10		Rt.	20(6)
U-5	I-5	6" x 45° E.I.	227+92		1		Rt.	
U-7	I-5	6" x 45° E.I.	232+48		1		Lf.	2
U-8	I-1	6" Pipe CL(A)	232+48	232+79	35		Lf.	35
B-1	I-8	Mon. Box, Adj. Grd.	227+27.39		1		Ea.	
B-2	I-8	Mon. Box, Adj. Grd.	233+50.60		1		Ea.	2
G-1	E-8	Paved Gutter	224+00	224+25	25		Rt.	25
C-1	F-10	Channel Prot'n	224+00	224+20	16		Rt.	16
R-1	F-12	Rip-Rap 15" Width	231+75	232+01	30		Lf.	30
S-1	L-10	Sod	224+20	235+75	1155		Rt.	1155
P-1	I-23	Traffic Divide	232+52	234+44		17	Ea.	17

℄ Profile Elev Present & Proposed Pavement

1185.95 1185.20 1184.45 1183.70 1182.95 1182.20 1181.45 1180.69 1179.94 1179.19 1178.44 1177.70 1176.99 1176.32 1175.68 1175.07 1174.49 1173.94 1173.43 1172.94 1172.49 1172.06 1171.67 1171.31 1170.98 1170.69 1170.42 1170.17 1169.92

Left Edge T-35 Pav't

Right Edge T-35 Pav't.

400' V. C.
P.I. Sta. 228+50 Elev. 1172.42

Profile & T-35 Pav't. Crown Transtn.

1190
1185
1180
1175
1170
1165
1160

G.2'
4.6'

℄ U-1 F.L. Profile

-1.40%

F.L. Profile U-3

+75 F.L. 1173.10

F.L. 1172.50
51' Rt.

0.48%

F.L. -3.01% -1.00%

Top Elev. 1169.15

Exist 6" Underdrain

F.L. Profile U-12

-1.00%

F.L. 1166.25
-1%

F.L. 1165.50

F.L. 1164.30

EXC. 2685 C.Y.
EMB. 4667 C.Y.
SEED 7426 S.Y.

℄ Profile & Survey

1185.46 1179.29 1176.09 1172.56 1169.86 1168.40 1167.70 1166.40 1164.30 1163.40 1162.78 1161.88 1160.58

224 225 226 227 228 229 230 231 232 233 234 235 236

1169.67 1169.55 1169.55 1169.34 1169.23 1169.27 1169.02 1168.90 1168.99 1169.17 1168.69 1168.59 1168.71 1168.92 1168.37 1168.25 1168.43 1168.67 1168.04 1167.93 1168.15 1168.23 1168.42 1167.67 1167.98 1168.17 1167.45 1167.73 1167.98 1167.67 1167.25 1167.48 1167.67 1167.04 1167.23 1167.42 1166.81 1166.98 1167.17 1166.52 1166.73 1166.98 1166.30 1166.48 1166.67 1166.13 1166.23 1166.42 1165.90 1165.98 1166.17 1165.67 1165.73 1165.92 1165.44 1165.48 1165.67 1165.21 1165.23 1165.42 1165.17 1164.98

LINE SHEET STA 224+00 TO STA 236+00

POR 224 - 2.29

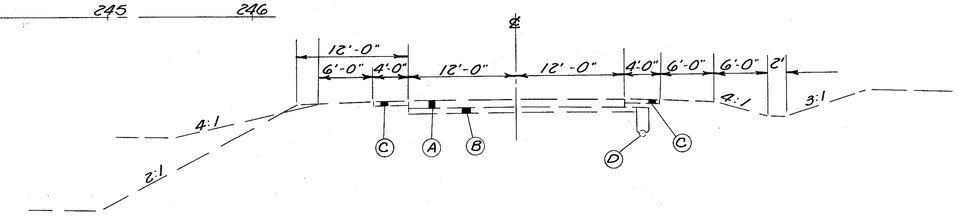
BEGIN SHEET STA 236+00

S82°21'00"E

237 238 239 240 241 242 243 244 245 246

℄ U.S. 224

TYPICAL SECTION
ADJOINING PAVEMENT



(A) 9" T-11 Reinforced Portland Cement Concrete Pavement
(B) 6" I-22 Subbase
(C) 6" Cement Stabilized Shoulders
(D) 6" I-1 Pipe Underdrain

| | | |

FED. AID DIVISION	STATE	PROJECT	
5	OHIO		

10
24

POR 224 -2.29

Seeding		End Area		Cu. Yds	
L.F.	S.Y.	Cut	Fall	Exc.	Emb.

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1240
1230
1220
1210

210+00
1211.56

← R/W 120'

R/W 140' →

209+00
1212.01

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

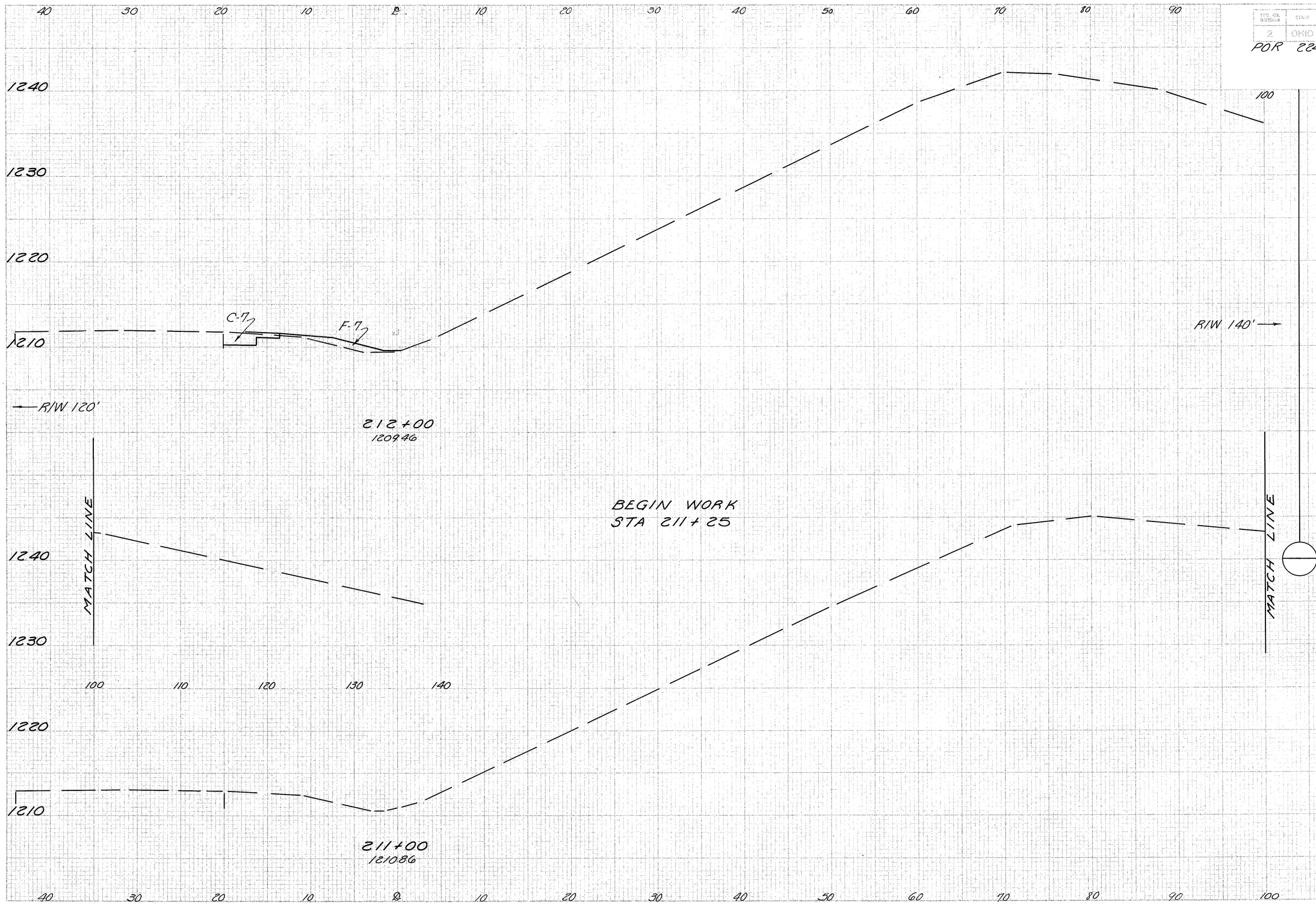
CROSS SECTION STA 209+00 TO STA 210+00

STATE	PROJECT
OHIO	

11
24

POR 224 - 229

Seeding		End Area		Cu Yds	
L.F.	S.Y.	Cut	Fill	Exc.	Emb
24		7	7		
	133			13	13
				0	0



CROSS SECTIONS STA 211+00 TO STA 212+00

FED. ID. NO. (IF ANY)	STATE	PROJECT		12
2	OHIO			24

POR 224-2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1230
1220
1210

C-14 7
F-21
C437
3:1

214+00
120566

R/W 120'

1240
1230
1220
1210

C-10 7
F-15 7
C-398
3:1

213+00
120736

R/W 140'

Station	Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu Yds. Exc.	Cu Yds. Emb.
214+00	97		451	21		
		1122			1591	67
213+00	105		408	15		
		717			769	41
STA 212+00	24		7	7		

CROSS SECTIONS STA 213+00 TO STA 214+00

RSH. SYS. DIVISION	STATE	PROJECT	
2	OHIO		

13
24

POR 224 - 2.29

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	69		436	11		
		194			368	9
	71		359	8		
		933			1500	54
STA 214+00	97		451	21		

C.Y. EXC. 7931 — C.Y. EMB. 944 — S.Y. SEED 9378

1220
1210
1200
100 110 120 130 140
MATCH LINE
C-6
F-11
C-430
R/W 111'
R/W 140'
1207.14
215+25
1204.40
1220
1210
1200
100 110 120 130 140
MATCH LINE
C-10
F-8
C-349
R/W 120'
R/W 140'
1207.51
215+00
1204.90
40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

CROSS SECTIONS STA 215+00 TO STA 215+25

DIST. NO.	STATE	PROJECT	
2	OHIO		

14
24

POR 224-2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

R/W 100' — R/W 111'

1200

F-14 — C-30 — C-26

1201.79
218+00
1198.70

1190

R/W 126'

1210

R/W 100'

1200

F-15 — C-178

1203.88
217+00
1200.90

BEGIN PROJECT
STA 216+50

R/W 136'

1210

R/W 100'

1200

C-272 — 1½" Per Ft.

F-18

1205.34
216+25
1202.20

1201.80

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

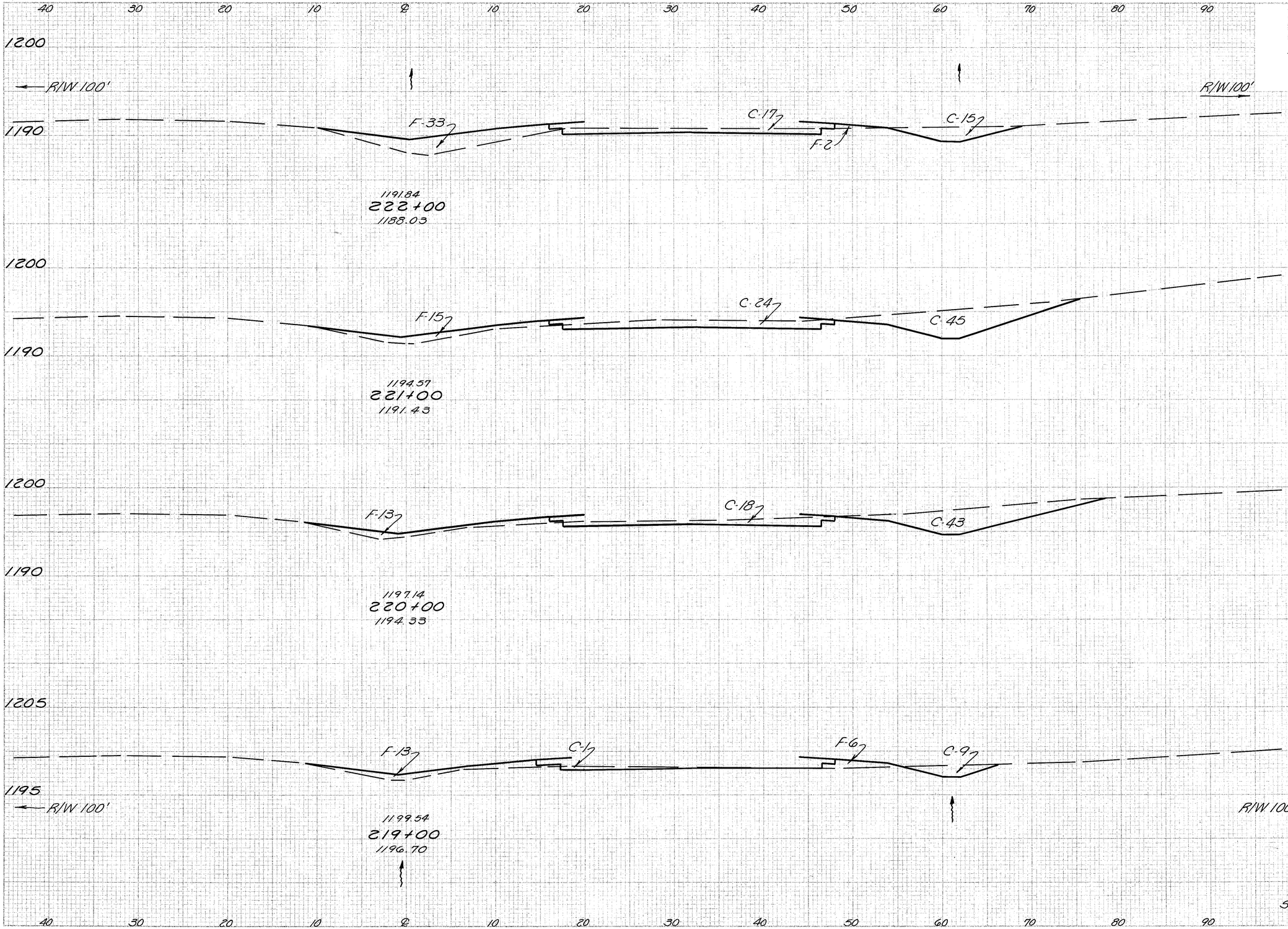
CROSS SECTIONS STA 216+25 TO STA 218+00

	Seeding		End Area		Cu Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
	64		56	14		
		722			433	54
	66		178	15		
		617			625	46
	82		272	18		
		839			1311	54
STA 215+25	69		436	11		

FED. AID DIV. NO.	STATE	PROJECT	
2	OHIO		

15
24

POR 224 - 2.29



Seeding L.F.	Seeding S.Y.	End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
68		32	35		
	800			187	93
76		69	15		
	861			241	52
79		61	13		
	800			131	59
65		10	19		
	717			122	61
64		56	14		

CROSS SECTIONS STA 219+00 TO STA 222+00

RTE. NO.	STATE	PROJECT
2	OHIO	

16
24

POR 224-2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1190

1180

S.R. 43

27"I-1

223+40
1187.36

1190

C-117 C-57 F-17 C-67 F-62 MATCH LINE S.R. 43

27"I-1

1188.95
223+00
1187.94

1180

1195

C-117 F-32 C-161

1190.14
09+222
1188.23

1185

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

STA 222+00

CROSS SECTIONS STA 222+60 TO STA 223+40

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
20		22	63		
164		144	38		
72		172	32		
467		227	74		
68		32	35		

POR 224-2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1180
1170
F-401
C-10
1179.0
100 R/W
1182.95
225+00
1179.29

1185
1175
C-7
C-20
F-282
C-29
27" I-1 Back
1182.50
R/W
1185.95
224+00
1185.46

1190
1180
C-40
F-146
C-6
1179.50
27" I-1
1186.31
223+88
1186.16

1190
1180
C-123
MATCH LINE S.R.43
1186.92
223+68
1186.58

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

Seeding		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
91		10	401		
	989			122	1265
87		56	282		
	99			23	95
61		46	146		
	79			63	54
10		123	0		
	114			188	80
STA 223+00 20		22	63		

CROSS SECTIONS STA 223+68 TO STA 225+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

18
24

POR 224 -2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1180
1170

F-78

1176.99
227+00
1172.56

C-160
1173.70

R/W

1180
1170

F-242

1178.68
226+92
1174.99

C-4
1174.0

R/W

1180
1170

F-342

1179.94
226+00
1176.09

C-47
1178.0

R/W

STA 225+00

Spacing		End Area		Cu. Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
75		160	78		
	467			176	344
70		4	242		
	357			6	454
83		4	342		
	967			26	1376
91		10	401		

CROSS SECTIONS STA 226+00 TO STA 227+00

REGION	STATE	PROJECT		
2	OHIO			

19
24

POR 224-2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1180
1170

C-60
F-44

1172.49
229+00
1168.40

R/W

EXC 2685 C.Y.
EMB 4667 C.Y.
SEED 7426 SY

1180
1170

F-42
C-241

1174.49
228+00
1169.86

R/W

1180
1170

F-61
C-398

1173.55

1176.26
227+27.39
1171.56

R/W

STA 227+00

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

	Seeding		End Area		Cu. Yds.	
	L.F.	S.Y.	Cut	Fill	Exc.	Emb.
56			60	44		
		728			557	159
75			241	42		
		666			859	139
90			398	61		
		251			283	70
75			160	78		

CROSS SECTIONS STA 227+27.39 TO STA 229+00

FED. ROAD SYMBOL	STATE	PROJECT	
2	OHIO		

20
24

POR 224-2.29

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1170

F-49

C-67

1165.50

1160

232+00
1164.30

1175

1169.15 Top

F-29

C-3

F-3

C-32

15" I-1 Cl A-1 @ 0.46%

F.L. 1166.2

1166.00

1165

1169.98
231+00
1166.40

1175

F-28

C-68

1165

11.70.98
230+00
1167.70

R/W

R/W

R/W

Sta. 229+00

Seeding		End Area		Cu. Yds	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
37		6	49		
	511			76	150
55		35	32		
	589			180	111
51		62	28		
	594			226	133
56		60	44		

CROSS SECTIONS STA 230+00 TO STA 232+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

POR 224-2.29

21
24

40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

1165
1160

END WORK STA. 235+75

236+00
1160.58

1170
1160

C-7 F-21 C-1
1162.00

235+00
1161.88

1170
1160

C-13 F-32 C-5
1162.50

234+00
1162.78

1170
1160

C-13 F-42 C-5
1162.75

233+50.60
1162.98

1170
1160

C-12 F-47 C-6
1163.50

233+00
1163.40

R/W

Seeding		End Area		Cu Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.
0		0	0		
	189			15	3
34		8	21		
	394			48	9
37		18	32		
	200			33	6
36		18	42		
	174			34	8
26		18	47		
	350			44	11
Sta 232+00 37		6	49		

CROSS SECTIONS STA 233+00 TO STA 236+00

POR 224 - 2.29

BEGIN SHEET STA 0+00

END SHEET STA 12+00

BEGIN WORK STA 4+25

END WORK STA 7+60

Existing R/W

Sta 5+00 S.R 43 = Sta 223+39.43 U.S. 224

S 88° 10' E

225

224

223

222

℄ U.S 224 Survey

℄ S.R. 43

150' R

200' R

24" C.M.P.

24" Hickory

Guy

Treated T.

12" V.S.P.

54° 14' W

1½ Sty Fr. Hse.

1½ Sty Br. Hse.

2 Temporary Runaround

+60 Begin Runaround

+11 ℄ Dr. 9' Gravel

+124 ℄ Dr. 10' Gravel

+136 ℄ Dr. 8' Asphalt

+142 ℄ Dr. 10' Asphalt

+161 ℄ Dr. 8' Gravel

+16 ℄ Dr. 9' Gravel

NOTE:
For Drainage Detail And Quantities Not Shown See Line Sheet For U.S. 224

For Intersection Details See Sheet No. 24

Spec. No.	Item Description	Station From	Station To	S. I. D. E.	Quan	Unit Meas	Item Total
R-1	E-12 Remove Pipe 15" & Under	6+02	6+32	Rt.	30	L.F.	30
D-1	I-1 12" Apac. B-1	5+85	6+36	Rt.	52	L.F.	52
A-1	T-35 Surface 2"	6+16		Rt.	4.7	C.Y.	4.7
A-1	I-18 Stab. Cr. Agg.	5+16		Rt.	13.9	C.Y.	13.9
B-1	I-8 Man Box Adj. Cod	5+00		℄	1	Ea.	1

1195
1190
1185
1180

Grading & Seeding Quantities Are Carried On Line Sheet For 224.

0	1	2	3	4	5	6	7	8	9	10	11	12	
1192.39	1190.97	1189.87	1189.19	1188.96 +20	1187.87	1187.54 +30	1187.54 +56	1187.55 +80	1187.34 +10	1187.22 +75	1187.24	1187.31 +16	1187.38 +35	1187.89	1188.06 +11	1189.96	1190.43 +24 1190.63 +36	1191.20	1191.35 +14	1191.87 +67	1192.24	1193.18	1192.09

LINE SHEET S.R. 43 STA 0+00 TO STA 12+00

PROJECT	STATE	PROJECT	
2	OHIO		

23
24

POR 224-2.29

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

Seeding		End Area		Cu Yds.	
L.F.	S.Y.	Cut	Fill	Exc.	Emb.

℄ Runaround (Approx.)

1185

1175

5+75
1187.22

℄ Runaround (Approx)

Grading Quantities Are Carried On Interstate Section Detail Sheet

℄ Runaround (Approx.)

1190

1180

5+10
1187.34

℄ Runaround (Approx.)

1190

1185

South Edge U.S.R. 224

4+80
1187.55

1190

1185

North Edge U.S.R. 224

4+56
1187.54

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

CROSS SECTIONS S.R. 43 STA 4+56 TO STA 5+75

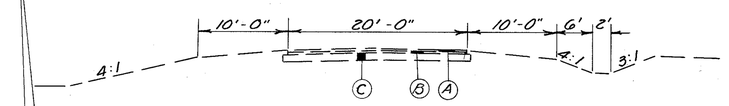
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

24/24

POR 224 - 2.29

INTERSECTION DETAIL
U.S. 224 & S.R. 43
SCALE 1" = 20'

TYPICAL SECTION
ADJOINING PAVEMENT - S.R. 43



(A) 1¼" T-35 Surface Course
(B) 1½" B-35 Leveling Course
(C) "Macadam" Type Base

Existing R/W ℄

Sta 2231+39.43 U.S.R. 224 =
Sta 3+00 S.R. 43

℄ Survey U.S. 224

N 4° 14' E

Signal Control Box

24" CMP ℄

Pave Existing Islands With 9" T-71 On 6" Subbase. These Areas Are To Be Paved And Properly Cured Prior To Placing The Temporary Runaround In Service.

Existing R/W ℄

221 222 223 224 225 226 227

S 88° 10' E

Match Line For Pavement Quantities

Grove 6"-8" Elms

Δ = 92° 24'
D = 77° 22'
R = 80.00'
T = 83.42'
L = 129.01'
E = 37.74'

Δ = 87° 36'
D = 77° 22'
R = 80.00'
T = 76.72'
L = 122.31'
E = 30.84

90° 00'

31° 23'

75.71'

118.74

118.82

118.02

90' R

80' R

50' R

150' R

200' R

24" CMP ℄

29.01'

22.31'

25' Feather

+ 27.46

+ 20.76

+ 26.22

+ 47.16

1190.44
1189.72
1188.96
1188.22
1187.64
1187.36
1187.26
1187.18
1187.40
1187.30
1187.60
1186.51
1186.12
1185.60
1185.00
1187.48

Temporary R/W ℄

Temporary R/W ℄

℄ S.R. 43

Temporary "Run-around"

32'

JOINT LEGEND
① Standard Longitudinal Joint
② Standard Key Joint Without Tie Bars
③ Expansion Joint Without Dowels

NOTE: Proposed Pavement & Berms For S.R. 43 Will Be The Same As Mainline Except Stabilized Shoulders Will Not Be Used.

Existing R/W ℄

ESTIMATED QUANTITIES

E-1 Excavation		150.0 C.Y.
* T-71 Median Nose	336.0 S.Y.	
2 Islands	53.3 S.Y.	
Return	528.9 S.Y.	
Total T-71		918.2 S.Y.
I-22 6" Subbase		155.4 C.Y.
T-35 Asphaltic Conc. Surface Course "Type "C"		1.8 C.Y.

* See Note On This Sheet Concerning Type Of Cement To Be Used.

Estimated Quantity For S-15 Temporary Runaround Using S-15 Traffic Compacted Surface Course

S-15	Aggregate	750 Cu. Yds.
S-15	Calcium Chloride	15 Tons

The Cost Of Removing The Necessary Portion Of The Existing Limited Access Right Of Way Fence To Construct The Temporary Runarounds And The Cost Of Replacing Or Restoring The Same In Compliance With Supplemental Specification No. 18. Shall Be Included In The Price Bid For The Temporary Runaround.

NOTES:
All Dimensions Shown On Median Nose Detail Are Typical To All Four Quadrants.

The Intersection Of Routes 224 & 43, Including The Median Nose, Will Be Constructed One Half At A Time, Divided Along The Centerline Of S.R. 43. Temporary Run-A-Rounds For S.R. 43 Shall Be Provided As Indicated Hereon And Reversed For The Construction Of The Opposite Side.

Sec M-1.2 High-Early-Strength Air Entraining Portland Cement Shall Be Used In The Construction Of This Intersection And Median Crossing.

INTERSECTION DETAIL U.S. 224 & S.R. 43

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

24R
24R

POR 224 - 2.29
R/W Sheet 1 of 1

Summary of Additional Right of Way Required

Parcel No.	Owner	Deed Record Book	Deed Record Page	Deed Area	Acreage or Sub-lots Now Owned	To Be Aquired Land	To Be Aquired Bldgs	Residue Left	Residue Right	Sheet No.	Remarks
82-T	Charles C. Morgan & Freda Morgan	552	193	1.90		0.05				1	
84-T	William E. Pearson & Gladys Pearson	472	501	Lots 34,35, 36,37		0.04				1	Suffield Homesites Vol. 6 Pgs. 49 & 50

Existing R/W ℄
R/W Fence
STA 223+39.43 ℄ U.S. 224 = STA 5+00 ℄ S.R. 43
Signal Control Box
24" C.M.P.℄
℄ N 4° 14' E
Existing R/W ℄
R/W Fence
North Line of Allotment
221 222 223 224 225 226 227
℄ Survey U.S. 224
S 88° 10' E
24" C.M.P.℄
Lot 37
Lot 36
Lot 28
Lot 23
West Line of Allotment
Guy
Runaround
Temporary
14" Elm
14" Elm
12" Elm
Suffield Homesites Allotment
Vol. 6 Pgs. 49+50
R/W Fence ℄
Existing R/W
LA
+35 100'
+60 100'
+100 100'
+30 100'
Charles C. Morgan & Freda Morgan
+16 ± Gravel Dr.
12" C.I.P.
24" Hickory
℄ S.R. 43
Row 3" Pines
Lot 36
Lot 35
2 Bushes
3" Pine
Bush
William E. Pearson & Gladys Pearson
38 Ft. Parcel R/W ℄
Existing R/W ℄
+02.3 170'
+00.8 205'
82 T
0.05 Ac.
84 T
0.04 Ac.
3" Pine
2" Pine
1½ Sty. Brick Dwg
6" Maple
8" Maple
Garage
Lot 35
Lot 34
+19.0
+11 ± Gravel Dr. ℄
1 Sty Frame Dwg.

Note:
Stations & offsets shown for Parcels 82-T and 84-T are referenced to the center line of survey on the Location Plat for Sum. 224-14.24, Por. 224-0.00 and recorded in Vol. 10 Pg. 16 of Portage County Record of Deeds.

Suffield Twp.
Lot 28
T-1-N R-9-W

Suffield Twp.
Lot 23
T-1-N R-9-W

RECEIVED R/W
MAY 23 1962
State Highway Dept.
Div. No. 4

Scale 1" = 20'-0"

COMPLETED MAY 17, 1962