

3052

FOR ANY QUESTIONS PLEASE CONTACT ODOT DIST. 2 REALSTATE AT (419)353-8131

3

STATE OF OHIO DEPARTMENT OF HIGHWAYS

LUC-2-2.47

LUCAS COUNTY

MONCLOVA, SWANTON & SRINGFIELD TOWNSHIPS

FED. RD. DIV. NO.	STATE	PROJECT	FISCAL YEAR
2	OHIO		1948

1
2

LUCAS COUNTY
LUC-2-2.47

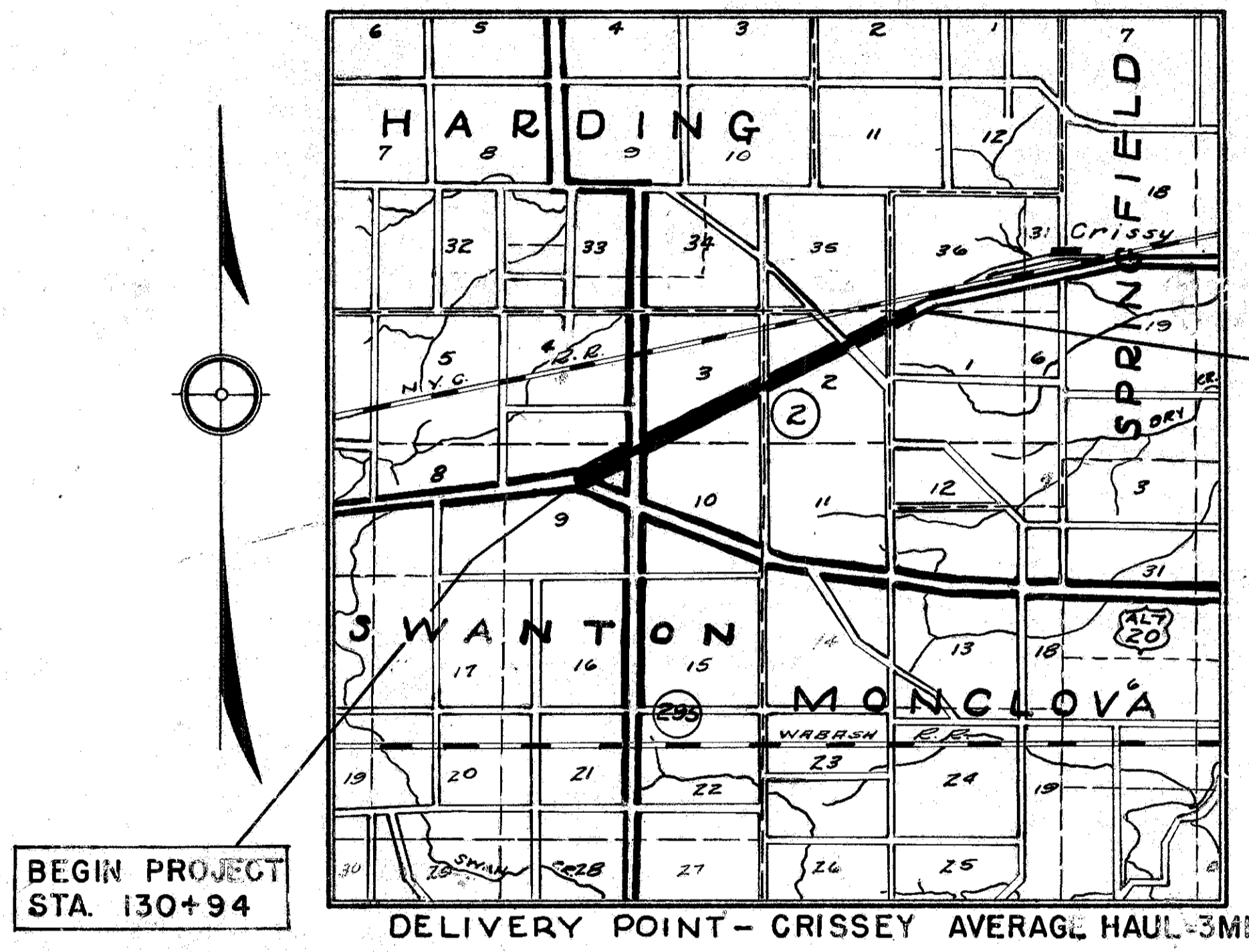
352

CONVENTIONAL SIGNS

COUNTY LINE	=====
TOWNSHIP LINE	-----
SECTION LINE	- - - - -
CORPORATION LINE	=====
FENCE LINE	- x - x - x - x -
CENTER LINE	-----
POLE LINE	⊕ ⊕ ⊕ ⊕ ⊕ ⊕
STEAM RAILROAD	=====
GUARD RAIL

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LOCATION PLAN

Scale

PORTION TO BE IMPROVED

STATE HIGHWAYS

OTHER ROADS

DETOURS

SCALES

PLAN	NONE
PROFILE HORIZONTAL	"
PROFILE VERTICAL	"
CROSS SECTIONS	"

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 necessary 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 to traffic of the highway and that traffic will be maintained as shown on the plans and estimates

Approved Welford B. Robison
Date: 11-18-48 Division Deputy Director

Approved _____
Date: _____ Chief Engineer, Bureau of Maintenance

Approved alvoque
Date: 11-26-48 Chief Engineer, Bureau of Bridges & R.R. Crossings

Approved George J. Thompson
Date: 11-27-48 Chief Engineer, Bureau of Location & Design

Approved _____
Date: _____ First Asst. Director & Chief Engineer

Approved Paul R. Erb
Date: 11-24-48 Director of Highways

LINE DATA

BEGIN WORK	STA. 129+94
BEGIN PROJECT	STA. 130+94
END PROJECT & WORK	STA. 304+42.9
NO ADDITIONS OR DEDUCTIONS.	
NET LENGTH OF WORK = 17,448.9' LIN. FT. OR 3.304 MILES	
NET LENGTH OF PROJECT = 17,348.9' LIN. FT. OR 3.285 MILES	

SUPPLEMENTAL SPECIFICATIONS		STANDARD DRAWINGS	
None		None	

CONSTRUCTION BUREAU
JUN 28 1955
GROUND PHOTO LAB

FILE NO.	LUCAS COUNTY S.R. 2
SEC.	2.47
DATE OF LETTING:	
CONTRACT NO.	

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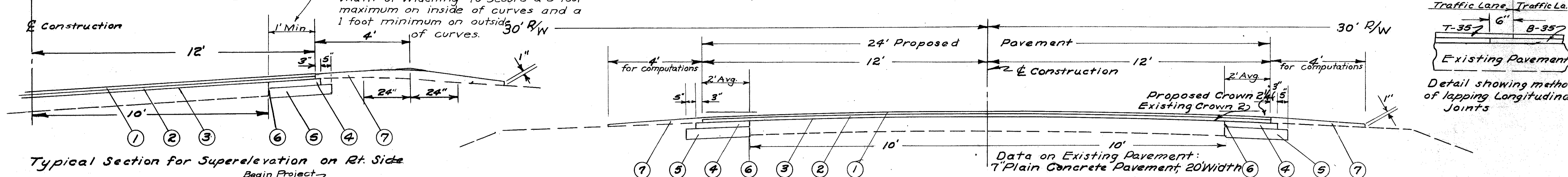
TYPICAL SECTION TYPE T-35

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		1948

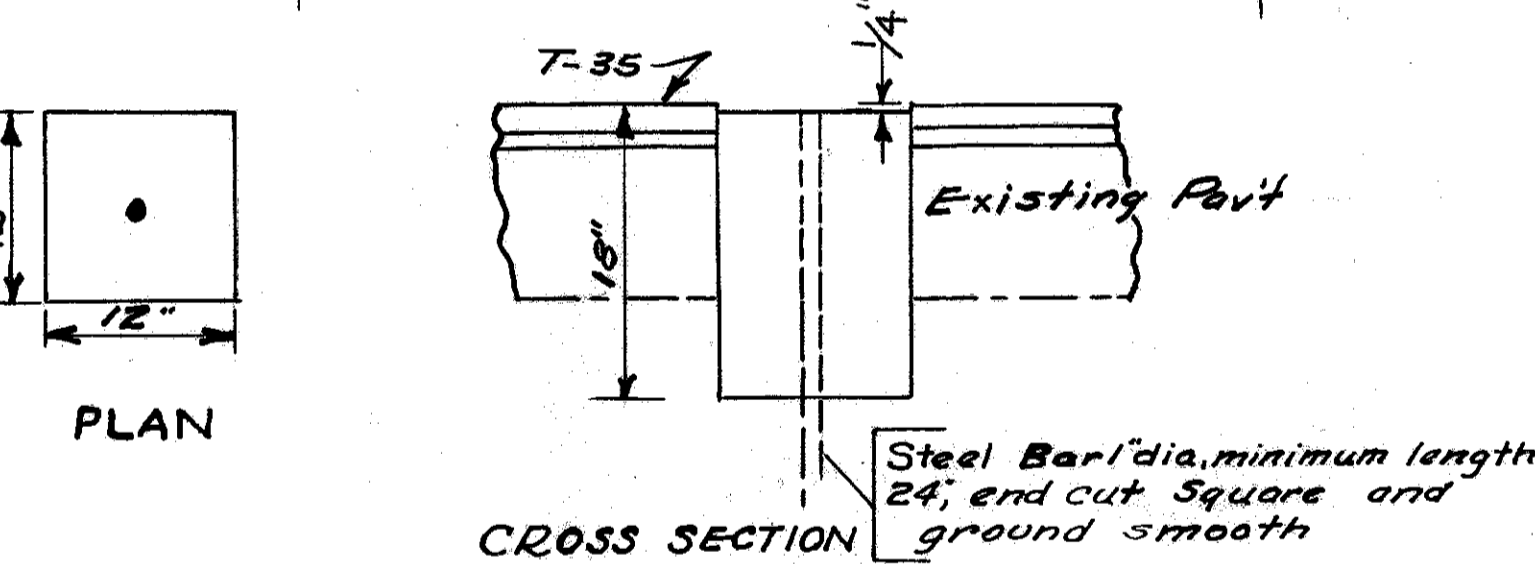
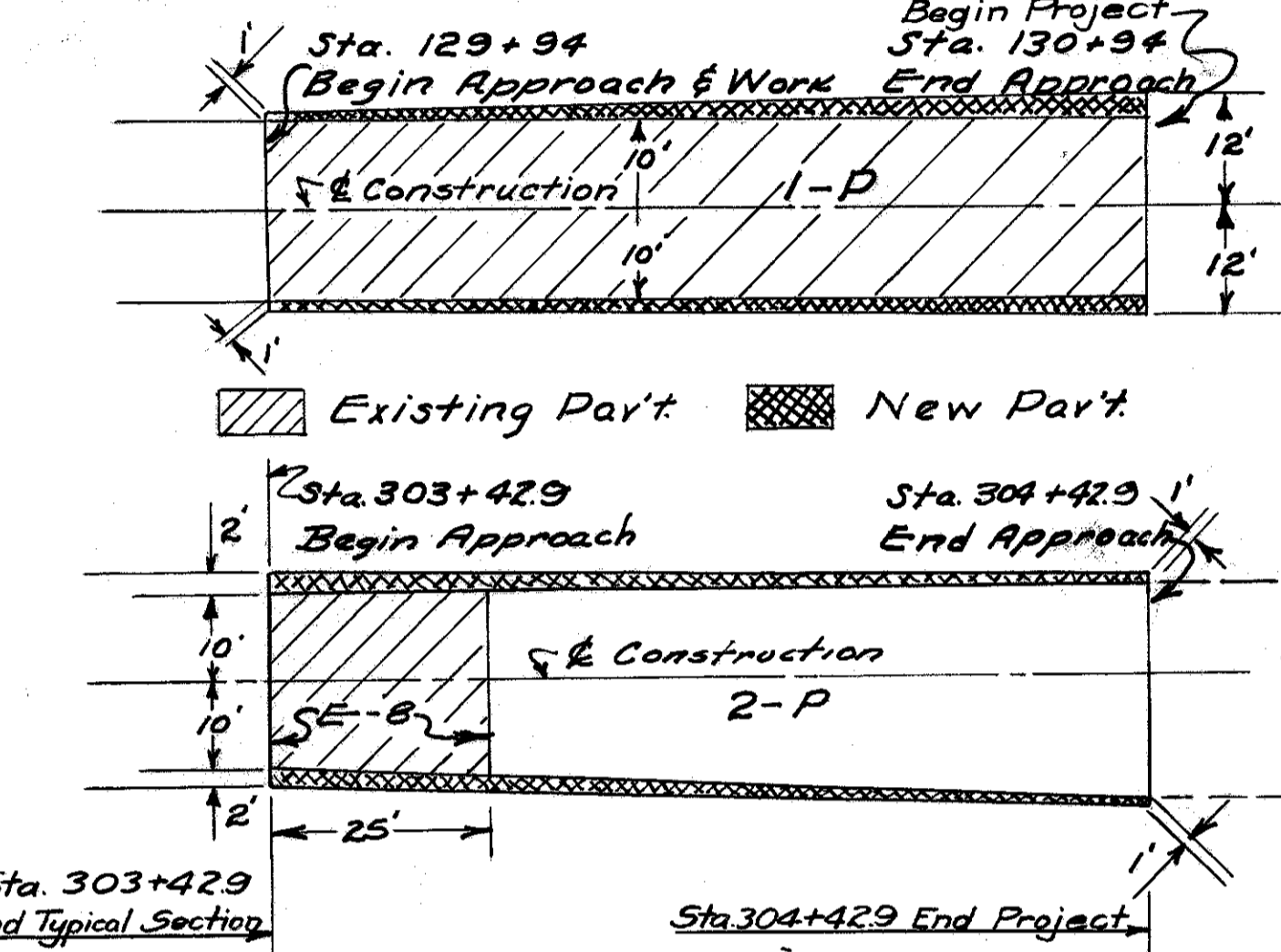
LUCAS COUNTY
LUC-2 - 2.47

Data on Adjoining Pavement
Beginning of the Project, 20 Ft. Concrete Pavement.
End of Project, 24 Ft. Asphaltic Concrete Surface on 20 Ft. Concrete pavement with base widening.

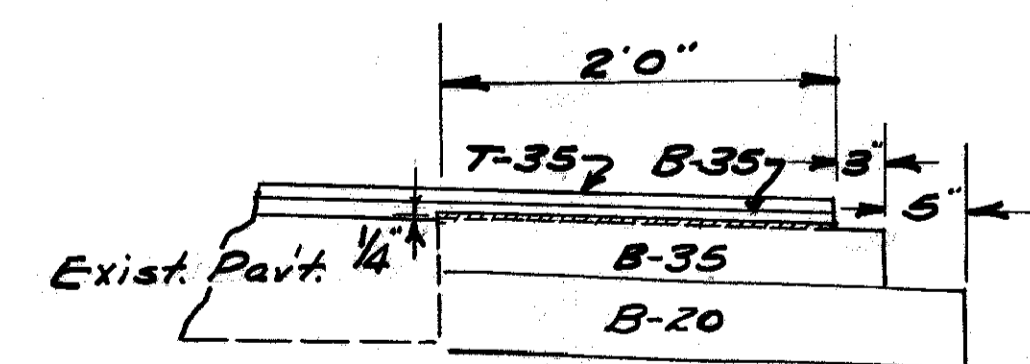
ITEM E-8 SEALING ONLY: In addition to the requirements of Sec. E-8.04 sealing joints, edges of portland cement concrete pavement to be sealed shall be thoroughly cleaned before applying the sealing agent.
Note: Existing curvature shall be eased, as directed by Engineer, by varying width of widening to secure a 3 foot maximum on inside of curves and a 1 foot minimum on outside of curves.



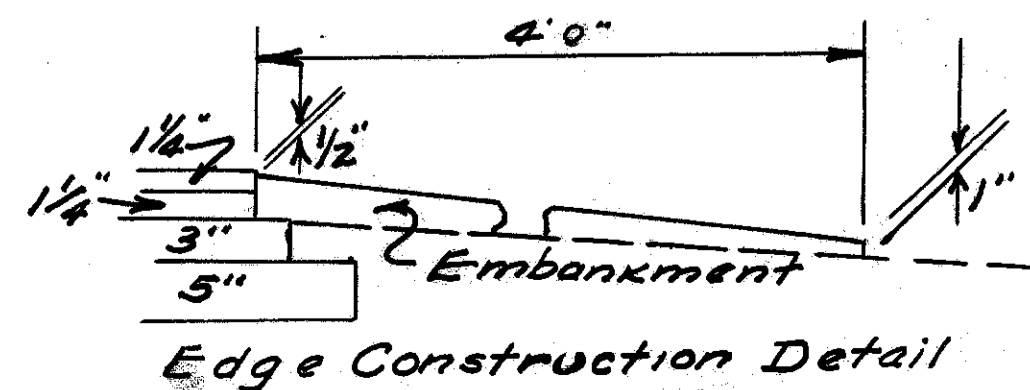
Typical Section for Superlevation on Rt. Side



Note: Cost of necessary Pavement Removal, furnishing Steel Bar and Class "C" Concrete is included in the Unit price for Item I-8 Monuments, as per Plan



Where the 3 inch leveling Course in the widened area would finish more than 1/4 inch above the edge of the existing pavement, that portion below the dashed line shall be placed and compacted in a separate operation. The matched portion above the dashed line shall be placed simultaneously with the full width leveling course.



EXTRA PAV'T. "P" The above Typical Section applies Sta. 130+94 to Sta. 303+42.9 = 17248.9 Lin. Ft. or 3.267 Miles

	T-35 Surface Sq. Yd.	B-35 Leveling Sq. Yd.	T-30 Tack Sq. Yd.	B-35 Leveling Sq. Yd.	B-20 Base Sq. Yd.	E-8 Sealing Lin. Ft.	E-8 Removal, Excav. Sq. Yd.	E-1 Excavation Cu. Yd.
1-P	255.6	158.7	222.0	38.9	51.8	200		11
2-P	92.7	92.7		38.9	51.8	200	59.4	11
Extra Pav't Widening	750	750	750					
Culvert	45.2	45.2	45.2					
Approaches	482.7	321.8	482.7					
Total to Summary							59.4	22
Total Computation	951.2	693.4	824.9	77.8	103.6	400		22

Station	side	Monument as per plan each
134+10.10	Rt	1
160+02.05	℄	1
224+50	℄	1
258+42.8	℄	1
279+01	℄	1
300+00	℄	1
Total		6

- Item T-35, 1 1/4" Asphaltic Concrete Surface Course, Type "A" (70-80 Penetration)
- Item B-35, 1 1/2" Minimum Thickness Asphaltic Concrete Leveling Course
- Item T-30, Bituminous Tack Coat, Using Bituminous Material, Sec. M-5.5 MS-1 or MS-3, applied at the rate of 0.10 Gal. per Sq. Yd., including Sand Coat
- Item B-35, 3" Asphaltic Concrete Leveling Course
- Item B-20, 5" Waterbound Macadam Base Course
- Item E-8 Sealing (only)
- Embankment Material obtained from Base Widening

GENERAL NOTES

ALIGNMENT & PROFILE: This project proposes no change in the alignment of the existing construction on the length now proposed for resurfacing. The profile of the existing pavement will be raised an amount equal to the thickness of the proposed resurfacing. Plans of the existing construction Lucas County, S.H. 20, Sec. 9, Year 1926-1927 indicating alignment and profile of the highway, to be resurfaced are on file at the Central Office of the Department of Highways, Columbus, Ohio, and are hereby made a part of this plan in that prints or tracings of same are available for review at the Division Office of the Department of Highways, Toledo, Ohio and Columbus, Ohio. The profile of the proposed Surface Course shall be approximately 2 3/4" above the profile of the existing pavement.

UTILITIES: All work required to relocate and/or adjust etc. all gas, oil, telephone, telegraph, electric, water or other services to conform to the new grade and alignments shall be completed by the utilities in question.

FILLING MAJOR DEPRESSION: Major depressions in the existing pavement shall be filled and compacted with Bituminous Concrete Leveling Material in advance of placing the regular leveling course. These depressions shall be filled in layers not to exceed 3 inches in depth when compacted.

CONTROL POINTS: Before construction operations begin, the Engineer will reference all existing monuments, railroad spikes, iron bolts, etc. in the survey line. Upon completion of the surfacing the Engineer will reestablish all these control points in the new pavement, not included in Item I-8.

TRAFFIC: Traffic shall be maintained at all times. The item of maintaining traffic shall include furnishing lights, signs, barricades, and watchmen necessary to secure the flow of traffic twenty four (24) hours daily. The length of one-way traffic zones shall be kept to a minimum consistent with the requirements of Sec. T-35.23.

EARTHWORK: Watering embankments, benching, density requirements and the removal of sod from the shoulder will not be required. However Item E-1 shall include the thorough compaction of embankment in layers not exceeding eight inches compacted thickness and shall include any operations of grading necessary to finish the shoulders and slopes substantially to the lines indicated on the typical sections. No provisions of the specifications will be waived for embankment which supports any portion of the new pavement or forms.

GENERAL SUMMARY

Item	Quantity	Unit	DESCRIPTION	Item	Quantity	Unit	DESCRIPTION
E-1	2275	Cu.Yds.	Roadway Excavation	T-35	1630	Cu.Yds.	Asphaltic Concrete Surface Course Type "A" (70-80)
E-8	34576	Lin.Ft.	sealing only	B-35	3236	Cu.Yds.	Asphaltic Concrete Leveling Course (70-80)
I-17	65	Cu.Yds.	Side Approaches, Mail Box Turnouts and Berm Material	T-30	3916	Gals.	Bituminous Tack Coat, Sec. M-5.5 MS-1 or MS-3
I-8	6	Each	Monuments as per plan	B-20	10,243	Sq.Yds.	5" Waterbound Macadam Base Course
E-8	60	Sq.Yds.	Removal and Disposal of Existing Wearing Course.				

PAVEMENT COMPUTATIONS

Length of Typical Section	17,248.9 Lin. Ft.
Area (17248.9 x 24) ÷ 9 =	45,997.1 Sq.Yds
T-35, 1 1/4" Surface Course	Area 45,997.1 Sq. Yds
Add from Table "P"	951.2 Sq. Yds
Total	46,948.3 Sq.Yds
46,948.3 x 5/144 =	1630 Cu.Yds
B-35 1 1/2" Leveling	Area 45,997.1 Sq.Yds
Add from Table "P"	693.4 Sq.Yds
Total	46,690.5 Sq.Yds
46,690.5 x 3/42 =	1945.4 Cu.Yds
Extra Leveling to correct Surf. Irregularities 175 x 3.267 Mi. = 571.7 Cu.Yds	
and adjust crown	2517.1 Cu.Yds
Total	Use 2517
B-35, 3" Leveling Course	Length 17,248.9 Lin. Ft.
Deduct for Approaches (2) & Culvert	- 161.0 Lin. Ft.
	17087.9 Lin. Ft.
(17,087.9 x 2.25 x 2) ÷ 9	8,544.0 Sq. Yd.
Add from Table "P"	77.8 Sq. Yd.
	8,621.8 Sq. Yd.
8,621.8 ÷ 12 =	718.5 Cu. Yd.
Total Leveling 2517 + 718.5 =	3,235.5 Use 3236 Cu. Yd.
T-30, Bituminous Tack Coat, Length of Typical Section	17,248.1 Lin. Ft.
(17,248.9 x 20) ÷ 9 =	38,331.0 Sq. Yd.
Add from Table "P"	824.9 Use =
	39,156.0 Sq. Yd.
39,156 x 0.10 =	3916 Gal.
B-20 5" Water Bound Base	Length from above 17,087.9 Lin. Ft.
(17087.9 x 2.67 x 2) ÷ 9 =	10,138.8 Sq. Yd.
Add from Table "P"	103.6 Sq. Yd.
Total	10,242.4 Sq. Yd.
Use =	10,243 Sq. Yds
E-8 Sealing (only)	Length from above 17,087.9 Lin. Ft.
17,087.9 x 2 =	34,176 Lin. Ft.
Add from Table "P"	400 Lin. Ft.
Total	34,576 Lin. Ft.
E-1 Excavation (unclassified)	Length from above 17,087.9 Lin. Ft.
(17087.9 x 2.67 x 2 x 3/12) ÷ 27 =	2253 Cu. Yd.
Add from Table "P" 22 + 2253 Cu. Yds. Total	2275 Cu. Yd.
I-17 Side Approaches & Mail Box Turnouts	Estimated 65 Cu. Yd.