

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR
10	OHIO		1943

1/4

DELAWARE COUNTY
 S.H. 336 SEC. DELAWARE (pt)
 S.H. 332 SEC. DELAWARE (pt)
 S.H. 742 SEC. DELAWARE (pt)

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 DELAWARE ~ NEWARK RD.
 S.H. 336 ~ SEC. DELAWARE PT.
 DELAWARE ~ MT. GILEAD RD.
 S.H. 332 SEC. DELAWARE PT.
 DELAWARE ~ OLIVE GREEN RD.
 S.H. 742 SEC. DELAWARE PT.
DELAWARE COUNTY
 CITY OF DELAWARE

File
A-3

LINE DATA

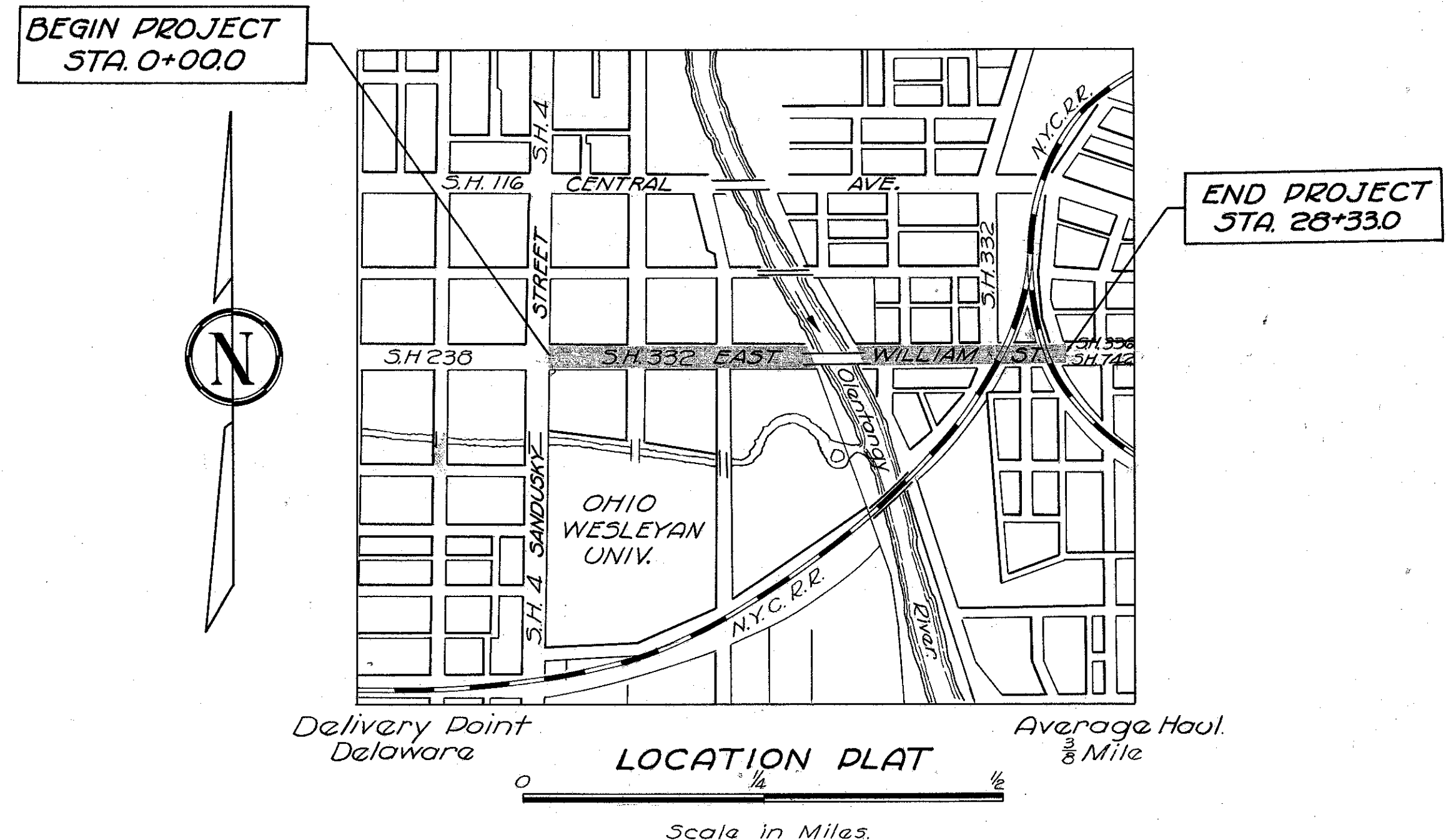
BEGIN PROJECT STA. 0+00.0
 END PROJECT STA. 28+33.0
 GROSS LENGTH OF PROJECT 2833.00 LIN. FT.
 NO ADDITIONS
 DEDUCT FOR BRIDGE STA. 13+80.8 to 17+01.8 321.0 LIN. FT.
 NET LENGTH OF PROJECT 2512.00 LIN. FT. OR
 0.475 MILES.

CONVENTIONAL SIGNS

STATE LINE	-----
COUNTY LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
CENTER LINE	-----
PROPERTY LINE	-----
CITY OR VILLAGE LINE	-----
FENCE LINE	-----
STEAM RAILROAD	-----
POLE LINE	⊕ ⊕ ⊕ ⊕ ⊕

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The Standard Specification 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 of the highway to traffic.

APPROVED: *J.P. Humaker*
 DATE 4/4/43 RESIDENT DIVISION DEPUTY DIRECTOR
 APPROVED _____
 DATE _____ CHIEF ENGR. BUREAU OF MAINTENANCE
 APPROVED _____
 DATE _____ CHIEF ENGR. BUREAU OF BRIDGES & RR CROSSINGS
 APPROVED: *Murray D. Shuff*
 DATE 9/3/43 CHIEF ENGR. BUREAU OF LOCATION & RIGHT OF WAY
 APPROVED: *G. H. Jones*
 DATE 9-2-43 FIRST ASST. DIRECTOR & CHIEF ENGINEER
 APPROVED: *J. A. Lane*
 DATE 9-6-43 DIRECTOR OF HIGHWAYS
 APPROVED _____
 DATE _____ CITY OF DELAWARE

CONSTRUCTION BUREAU
 APR 13 1956
 GROUND PHOTOLAB

PORTION TO BE IMPROVED	=====
STATE HIGHWAYS	=====
CITY STREETS	=====
PLAN	1"=100'
PROFILE VERTICAL	1"=10'
PROFILE HORIZONTAL	1"=100'

SUPPLEMENTAL SPECIFICATIONS
None

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS	
G-707	6-1-42

File No	DELAWARE COUNTY S.H. 336-332 & 742 SEC. DELAWARE (PT)
DATE OF LETTING	
CONTRACT No	

TYPICAL SECTIONS

TYPE T-35

FED. RD. DIST. NO.	STATE	PROJECT	FISCAL YEAR	2 4
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GENERAL NOTES

TRAFFIC:
 Traffic shall be maintained at all times to the satisfaction of the Director. The item of "Maintaining Traffic" shall include furnishing lights, signs, barricades, and watchmen necessary to secure the unimpeded flow of traffic twenty four hours daily.

PROFILE:
 The profile of the proposed surface course shall be approximately 2 inches above that of the existing pavement.

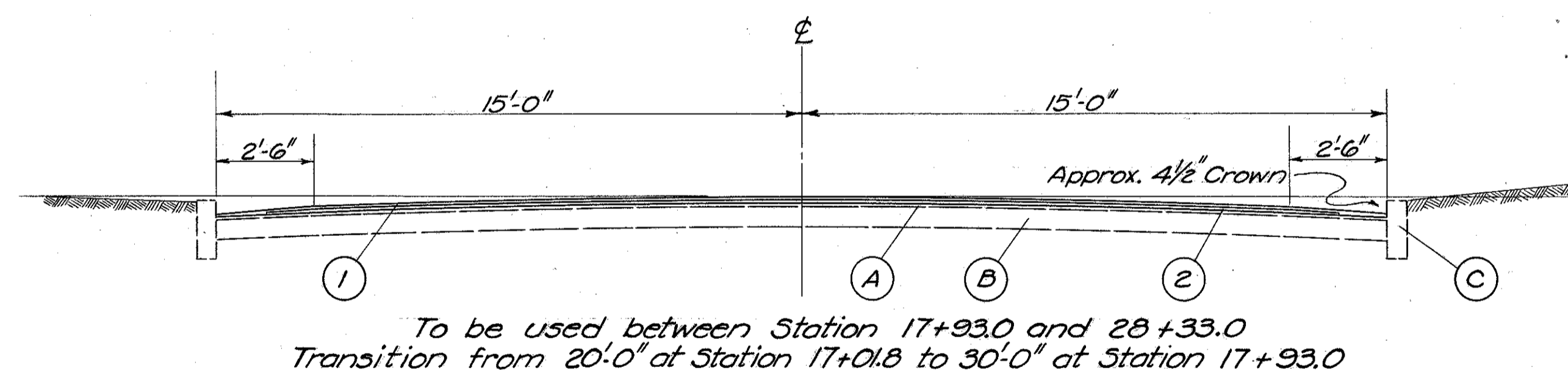
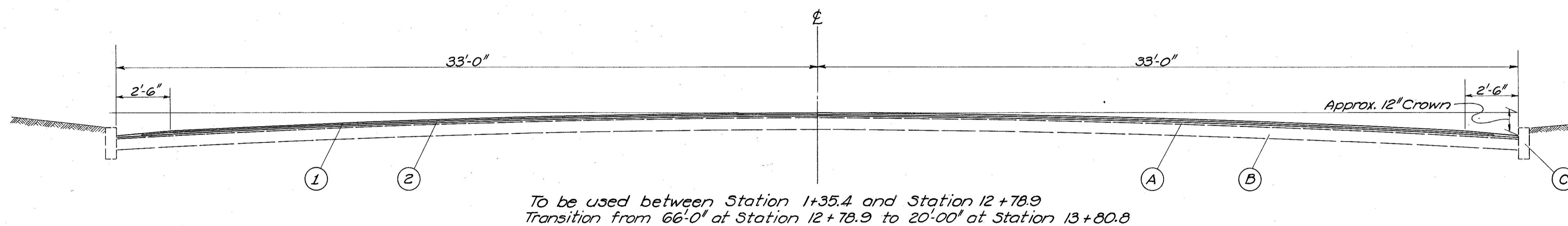
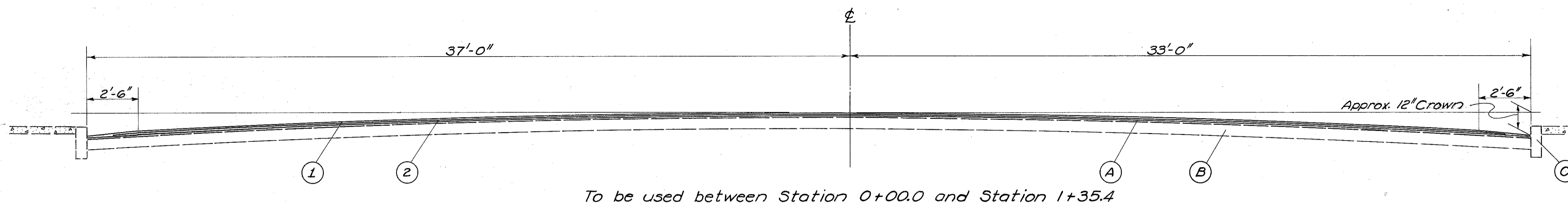
SEALING EXISTING EDGES:
 Vertical faces of existing work, such as pavements, castings, curbs, etc., against which the new bituminous concrete mixture is to be placed, shall be painted or sealed with the same bituminous material as used in the mixture which shall be applied at a temperature of 300 deg. F., to 350 deg. F., before placing the mixture. The cost of such operations and material shall be included in the price bid for surface course.

GUTTER SEAL:
 Prior to placing any asphaltic concrete, but after thorough cleaning, the existing gutter surface shall be sealed with the same bituminous material contained in the mixture. Only enough material shall be applied to coat the surface for a distance of twenty-four inches from the curb or twenty-four inches wide for a "V" gutter. The material shall be applied by an approved method at a temperature of from 300 deg. F. to 350 deg. F. The cost of such operation and material shall be included in the price bid for surface course.

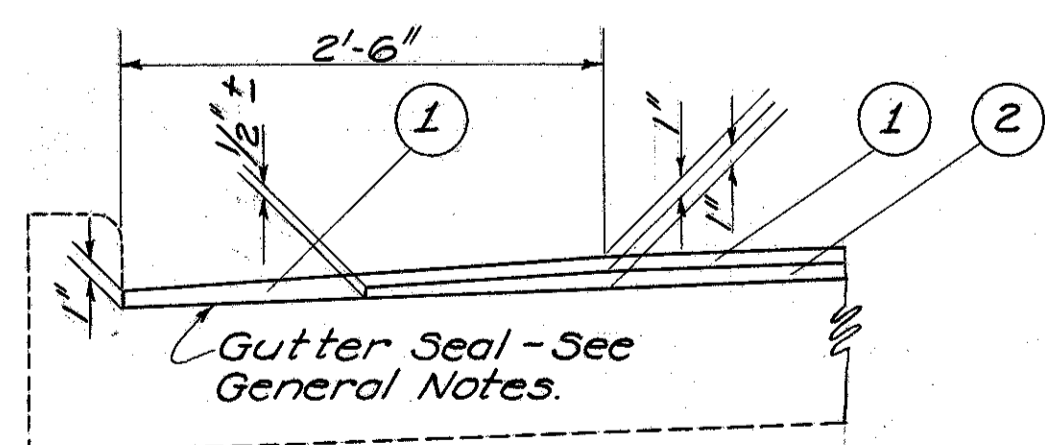
FEATHERING:
 Before placing the asphaltic concrete, a paint coat of the same bituminous material used in the mix shall be applied to the area of existing pavement under the area to be feathered. Payment for this paint coat is to be included in the unit price bid for the asphaltic concrete.

LEVELING COURSE:
 Whenever the depth of the leveling course exceeds 2 inches, the leveling material below the minimum thickness specified on the plan shall be spread and compacted in one or more courses. No course shall exceed three inches in depth when compacted.

RESETTING CASTINGS:
 This item shall be performed at completion of the leveling course and prior to placing the surface course.

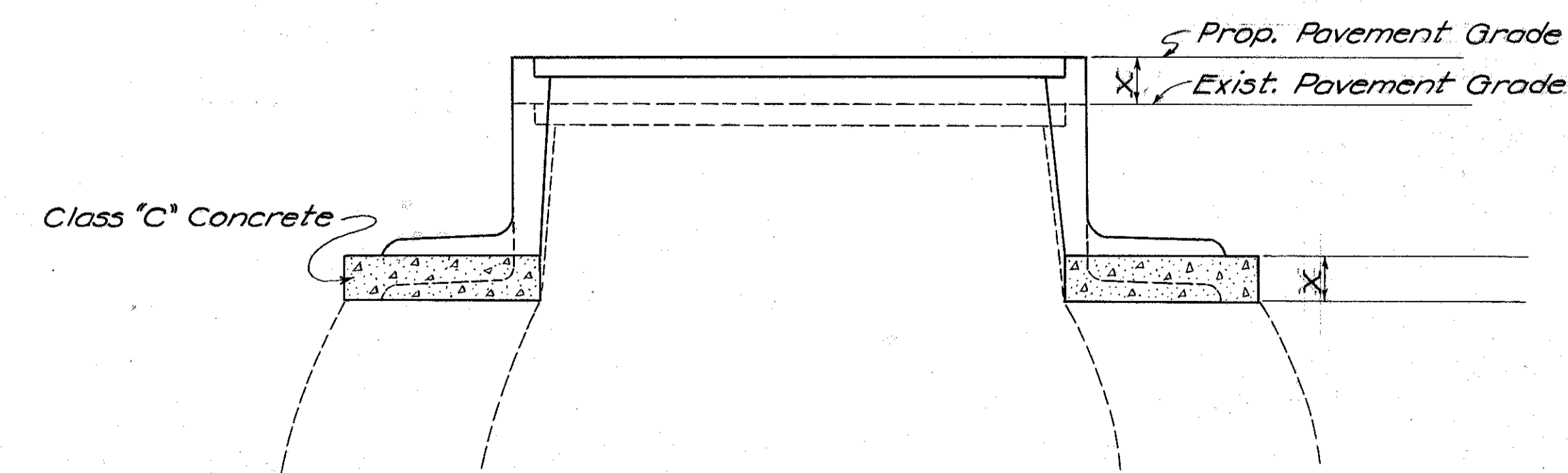


- ① 1" Asphaltic Concrete Surface Course Type "B" Item T-35
- ② (1" Minimum thickness) Asphaltic Concrete Leveling Course. Item B-35
-
- A 1" Kentucky Rock Asphalt Surface Course.
- B 6" Portland Cement Concrete Base.
- C 5'x18" Sandstone Curb

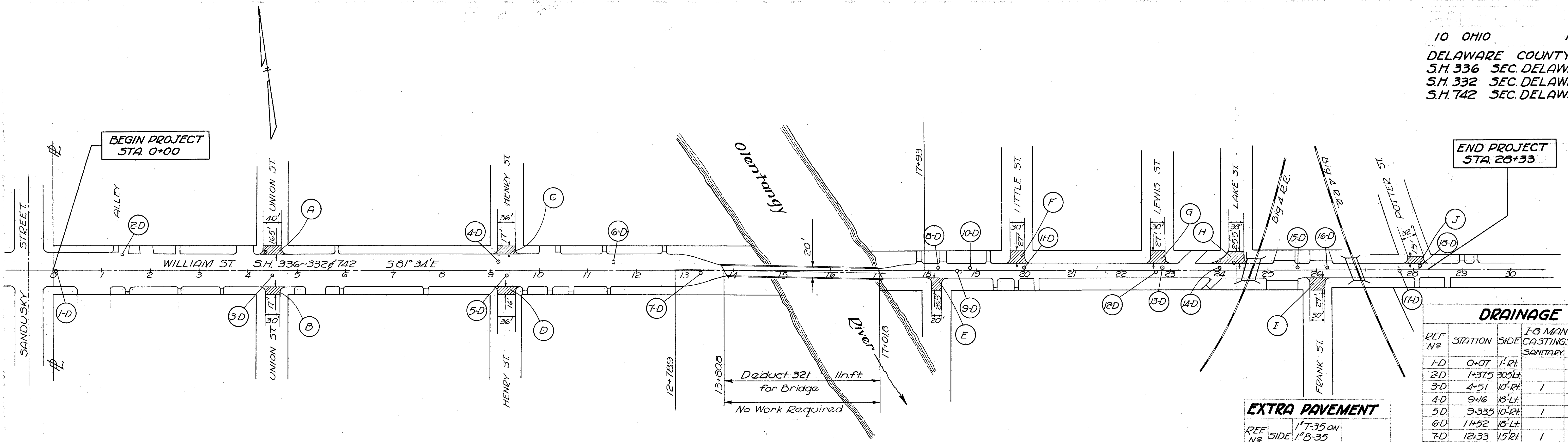


DETAIL OF GUTTER SEAL & GUTTER CONSTRUCTION.

Special care shall be taken during construction to obtain maximum compaction of the bituminous concrete in all gutters.



SECTION SHOWING RESETTNG OF MANHOLE



EXTRA PAVEMENT

REF. N ^o	SIDE	1" T-35 on 1" B-35 SQ. YDS.
A	Lt.	78.3
B	Rt.	61.7
C	Lt.	73.0
D	Rt.	69.0
E	Rt.	63.8
F	Lt.	95.0
G	Lt.	95.0
H	Lt.	167.6
I	Rt.	95.0
J	Lt.	58.3
TOTAL		856.7

DRAINAGE

REF. N ^o	STATION	SIDE	I-B MANHOLE CASTINGS RESET	
			SANITARY	STORM
1-D	0+07	1 st Rt.		1
2-D	1+37.5	300 ^{ft} Lt.		1
3-D	4+51	10 th Rt.	1	
4-D	9+16	18 th Lt.		1
5-D	9+33.5	10 th Rt.	1	
6-D	14+52	18 th Lt.		1
7-D	12+33	15 th Rt.	1	
8-D	18+20	5 th Lt.		1
9-D	18+60	15 th Rt.	1	
10-D	18+88	5 th Lt.		1
11-D	19+99	5 th Lt.	1	
12-D	21+69	35 th Rt.	1	
13-D	22+84	5 th Lt.		1
14-D	24+01	5 th Lt.		1
15-D	25+61	5 th Lt.		1
16-D	26+21.5	5 th Lt.		1
17-D	27+70	1 st Rt.	1	
18-D	28+12	8 th Lt.		1
TOTALS			7	11



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PAVEMENT CALCULATIONS.

Begin 70' Width Station 0+00.0 Begin Project.
End 70' Width Station 1+35.4
Total 135.4 Lin. Ft.
Begin 66' Width Station 1+35.4
End 66' Width Station 12+78.9
Total 1143.5 Lin. Ft.
Begin Transition Ave. 43' Wide Station 12+78.9
End Transition Ave. 43' Wide Station 13+80.8
Total 101.9 Lin. Ft.
Begin Transition Ave. 25' Wide Station 17+01.8
End Transition Ave. 25' Wide Station 17+93.0
Total 91.2 Lin. Ft.
Begin 30' Width Station 17+93.0
End 30' Width Station 28+33.0
Total 1040.0 Lin. Ft.
Net Length of Project 2512.0 Lin. Ft. or 0.475 Miles.

ITEM T-35 1" ASPHALTIC CONCRETE SURFACE COURSE TYPE B.

70' x 135.4 ÷ 9 = 1053.1 Sq. Yds.
66' x 1143.5 ÷ 9 = 8385.7 Sq. Yds.
43' x 101.9 ÷ 9 = 486.9 Sq. Yds.
25' x 91.2 ÷ 9 = 253.3 Sq. Yds.
30' x 1040.0 ÷ 9 = 3466.7 Sq. Yds.
Add from Table "P" 856.7 Sq. Yds.
Total 14,502.4 Sq. Yds.
14,502.4 x 1/6 = 4028 Cu. Yds.
Add for Gutter Wedge 2512.0 x 2 x 125 x .02 ÷ 27 = 47 Cu. Yds.
Total 4075 Cu. Yds.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE.

67.5' x 135.4 ÷ 9 = 1015.5 Sq. Yds.
63.5' x 1143.5 ÷ 9 = 8068.0 Sq. Yds.
40.5' x 101.9 ÷ 9 = 458.6 Sq. Yds.
22.5' x 91.2 ÷ 9 = 228.0 Sq. Yds.
27.5' x 1040.0 ÷ 9 = 3177.8 Sq. Yds.
Add from Table "P" 856.7 Sq. Yds.
Total 13,804.6 Sq. Yds.
13,804.6 x 1/6 = 3835 Cu. Yds.
Deduct for Gutter Wedge 2512.0 x 2 x 125 x .02 ÷ 27 = 47 Cu. Yds.
Total for 1" course 3788 Cu. Yds.
Add 50% for Longitudinal correction 3788 x .5 = 1894 Cu. Yds.
Total 5682 Cu. Yds.

GENERAL SUMMARY.

ITEM	QUANTITY	UNIT	DESCRIPTION
I-8	18	Each	Manhole Castings Reset
T-35	408	Cu. Yds.	Asphaltic Concrete Surface Course, Type B.
B-35	569	Cu. Yds.	Asphaltic Concrete Leveling Course

EXTRA PAVEMENT "P"

SHEET NO.	1" T-35 ON 1" B-35 SQ. YDS.	
3	856.7	
TOTAL	856.7	