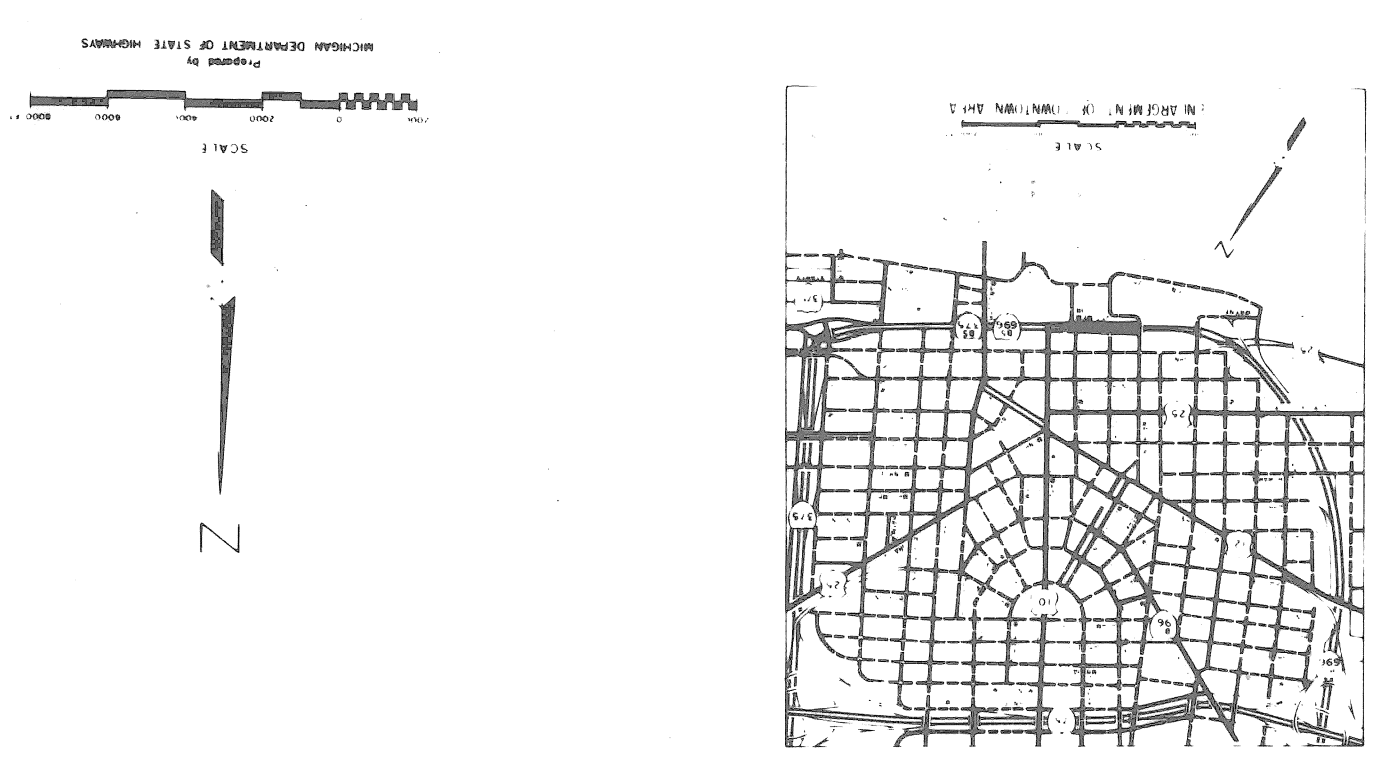
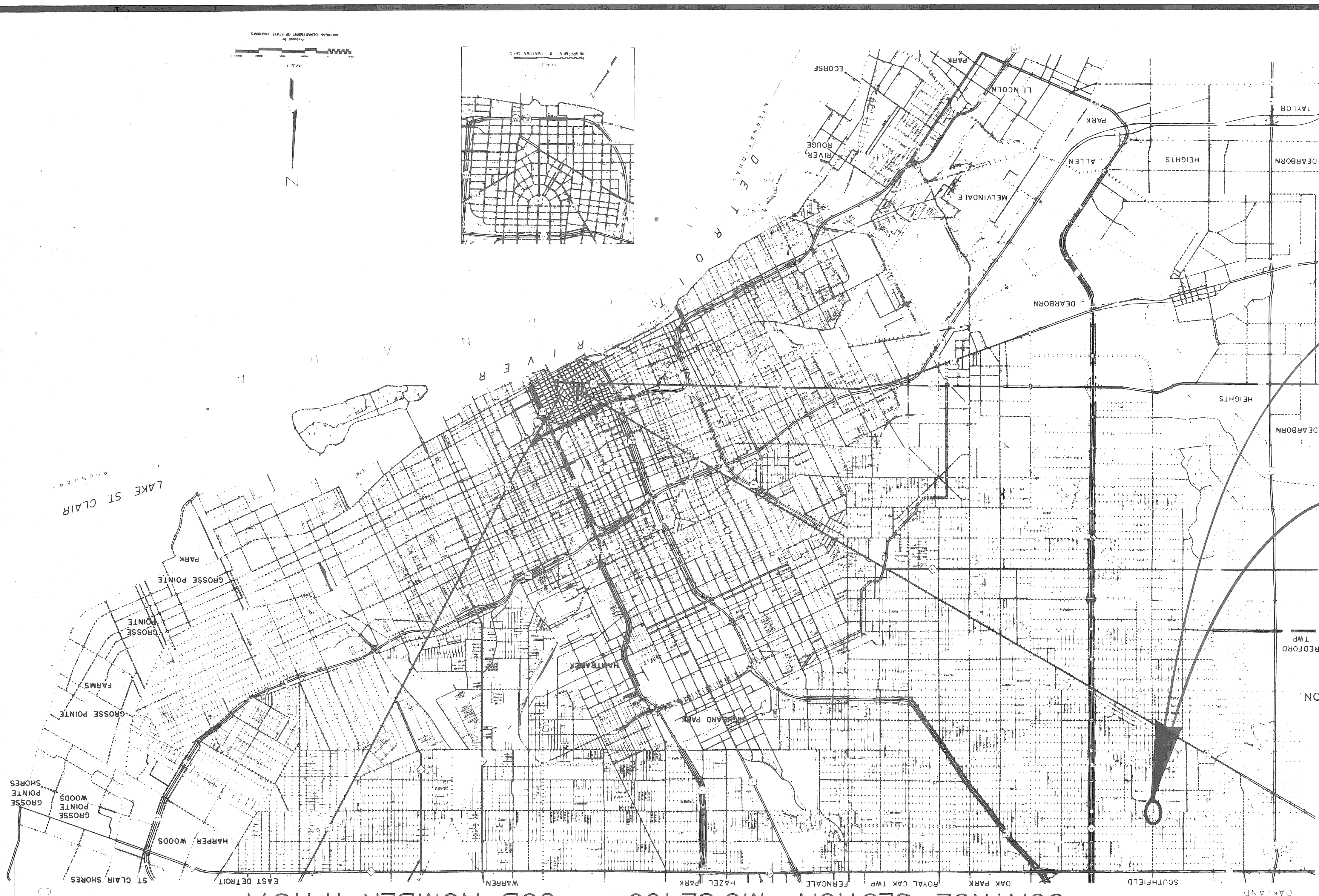


STANDARD PLANS	
II-28F	II-43B
II-29B	II-44C
II-39D	II-84B
II-40C	II-124B
II-41B	II-125D
II-42A	E-4-A-10E

INDEX TO SHEETS	
1	TITLE
2-3	TYPICAL CROSS-SECTIONS
4-5	ALIGNMENT
6-7	REMOVALS
8-10	PLANS AND PROFILES
11	DETAILED GRADES
12-13	UTILITIES
14-20	STANDARDS
21	FIRE HYDRANTS
22-23	ROAD QUANTITIES
24-25	ROAD LEGEND AND INFORMATION
26	PLD GENERAL PLAN
27	T.S. AT 7MI-EVERGREEN
28-41	PLD STANDARDS
42	PLD QUANTITIES

INTERSECTION
EVERGREEN AVE.
&
SEVEN MILE RD.



CITY OF DETROIT
CITY ENGINEERING DIVISION - E.P.M.D.
IN CO-OPERATION WITH
MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
AND
FEDERAL HIGHWAY ADMINISTRATION
PLAN AND PROFILE OF PROPOSED
FEDERAL AID URBAN PROJECT NO. MICHIGAN M 2000 (039)
CONTROL SECTION MU 82400
JOB NUMBER 11413A

ITEM No 251

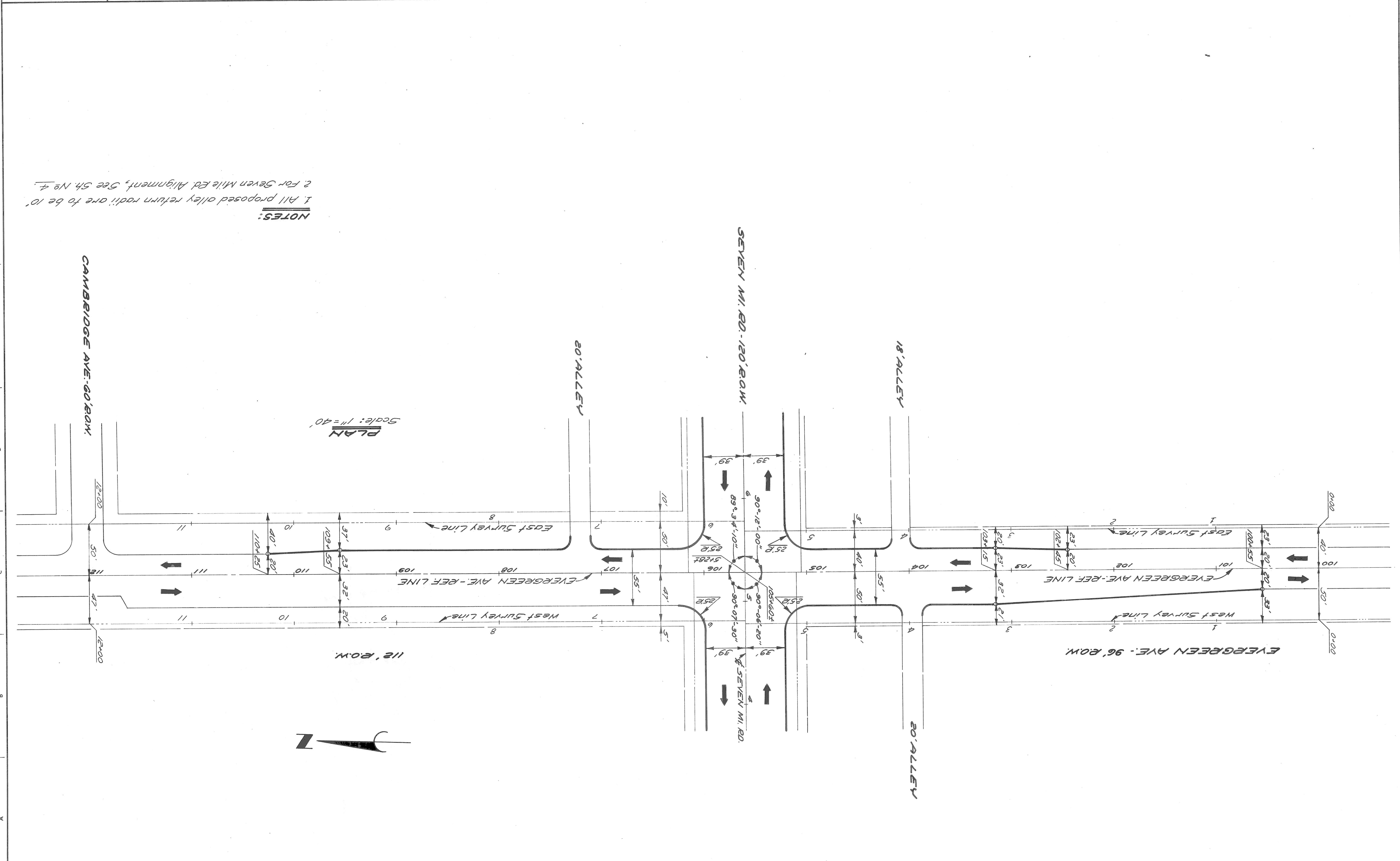
BY	ASS'T CHIEF ENGINEER-DESIGN DIVISION	DATE	11-29-78
BY	COUNTY HIGHWAY ENGINEER	DATE	12-1-78
APPROVAL			
BOARD OF WAYNE COUNTY ROAD COMMISSIONERS			
APPROVED BY	ASSISTANT CITY ENGINEER	DATE	11/1/78
APPROVED BY	CITY ENGINEER	DATE	11/1/78
LOCAL AUTHORITY APPROVAL			
CITY OF DETROIT CITY ENGINEERING DIVISION ENVIRONMENTAL PROTECTION & MAINTENANCE DEPARTMENT			
RECOMMENDED FOR APPROVAL	E.A.U. ENGINEER	DATE	1-4-79
PLANS CHECKED BY	DATE	1-8-79	
DEPARTMENT OF STATE HIGHWAYS APPROVAL	APPROVED FOR COMMISSION	DATE	1/5/79
PREPARED UNDER SUPERVISION OF	REGISTERED PROFESSIONAL ENGINEER	REGISTRATION NO.	9251
CITY OF DETROIT			
ORGANIZATION			
DETROIT MICHIGAN			
ADDRESS			
(SEAL)			
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION			
APPROVED			
DATE	DISTRICT ENGINEER		

C.S. MU 82400 JOB No 11413A M2000 (039)

B.P.R.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4 <td>MICH <td> <td> <td> <td></td> </td></td></td></td>	MICH <td> <td> <td> <td></td> </td></td></td>	<td> <td> <td></td> </td></td>	<td> <td></td> </td>	<td></td>	
STREET	CITY	COUNTY	TWP	SHEET NO.	TOTAL SHEETS
	DETROIT	WAYNE		I	

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

CITY OF DETROIT E.P.M.D. CITY ENGINEERING DIVISION		APPROVED: <i>Wm. E. [Signature]</i>	DESIGNED BY: <i>[Signature]</i>	DRAWN BY: <i>[Signature]</i>	TRACED BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>	REVISIONS LOCATED BY COORDINATES ON SHEET
SEVEN MILE RD. - EVERGREEN AVE. INTERSECTION IMPROVEMENT		SEVEN MILE RD. - EVERGREEN AVE. ALIGNMENT - EVERGREEN AVE.		DATE: 11-78	DRWG NO. 11-78	CONTRACT NO. 11413A	SHEET 5 OF 42 SHEETS



PLAN
Scale: 1" = 40'

NOTES:
1. All proposed alley return radii are to be 10'
2. For Seven Mile Rd. Alignment, See Sh. No. 4.

COORD.	REVISIONS LOCATED BY COORDINATES ON SHEET	DESIGNED BY	APPROVED
		JK/MS	
		TRACED BY	
		DRAWN BY	Jucech
		DESIGNED BY	
		ENGINEER OF STREETS	Mr. Z. [Signature]
		HIGHWAY ENGINEER	

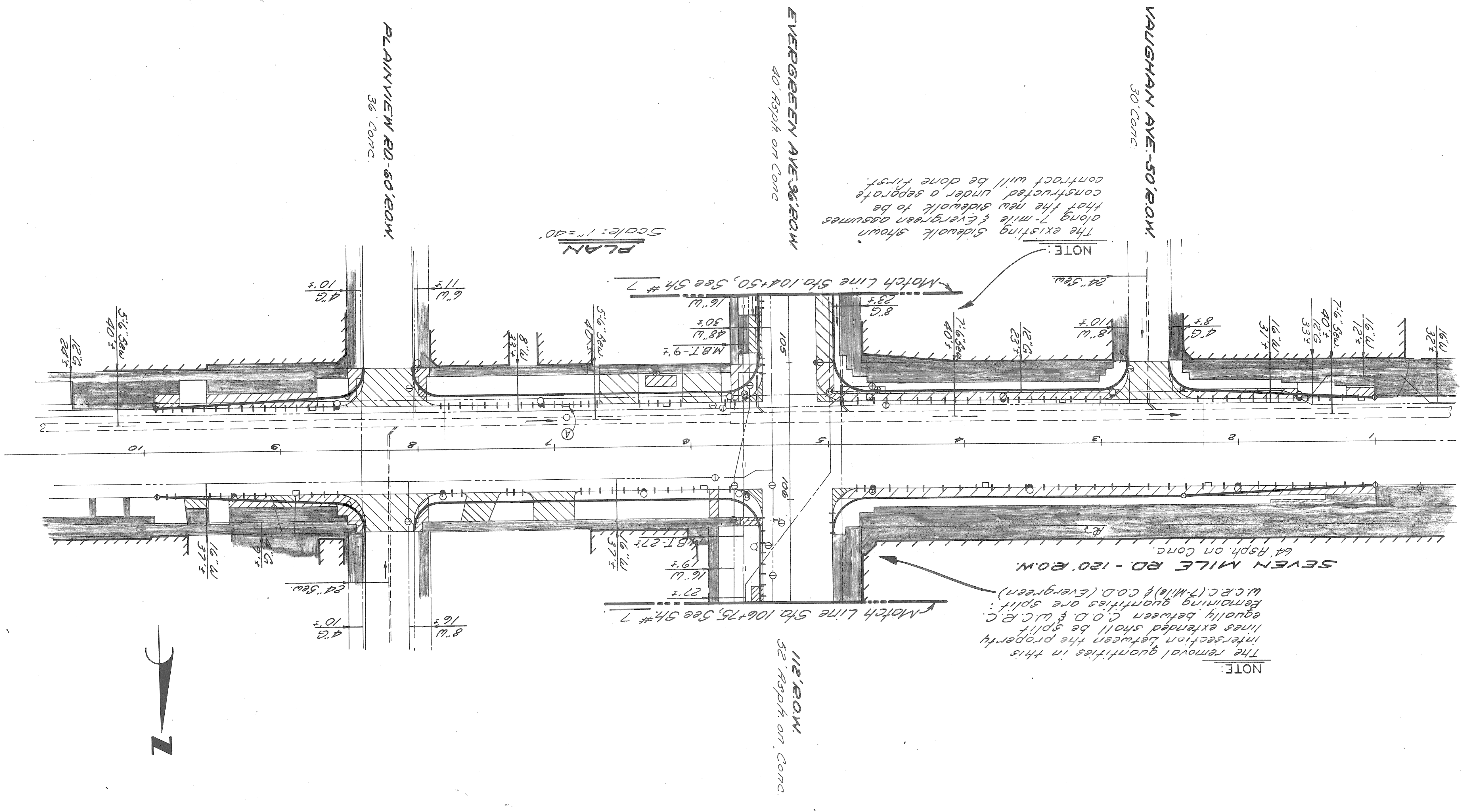
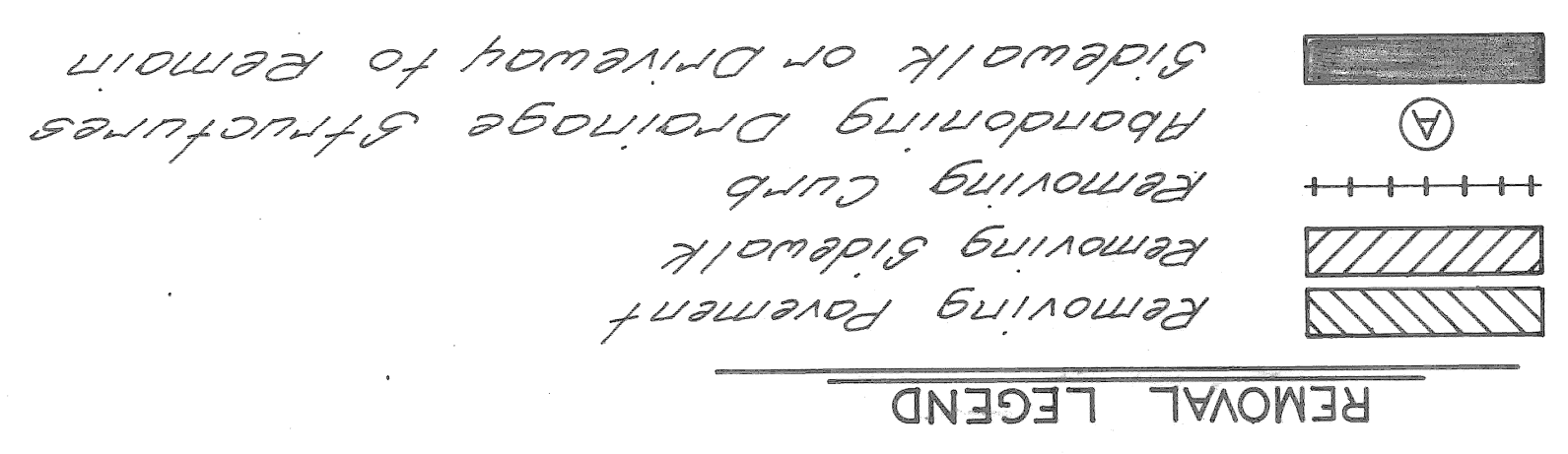
SHEET	6 OF 42 SHEETS
CONTRACT NO.	11413A
ASSIGNMENT	REMOVALS — SEVEN MILE RD.
DATE	11-78

CITY OF DETROIT
 CITY ENGINEERING DIVISION - E.P.M.D.
 BUREAUS OF STREETS AND HIGHWAYS

NO.	DESCRIPTION	DATE

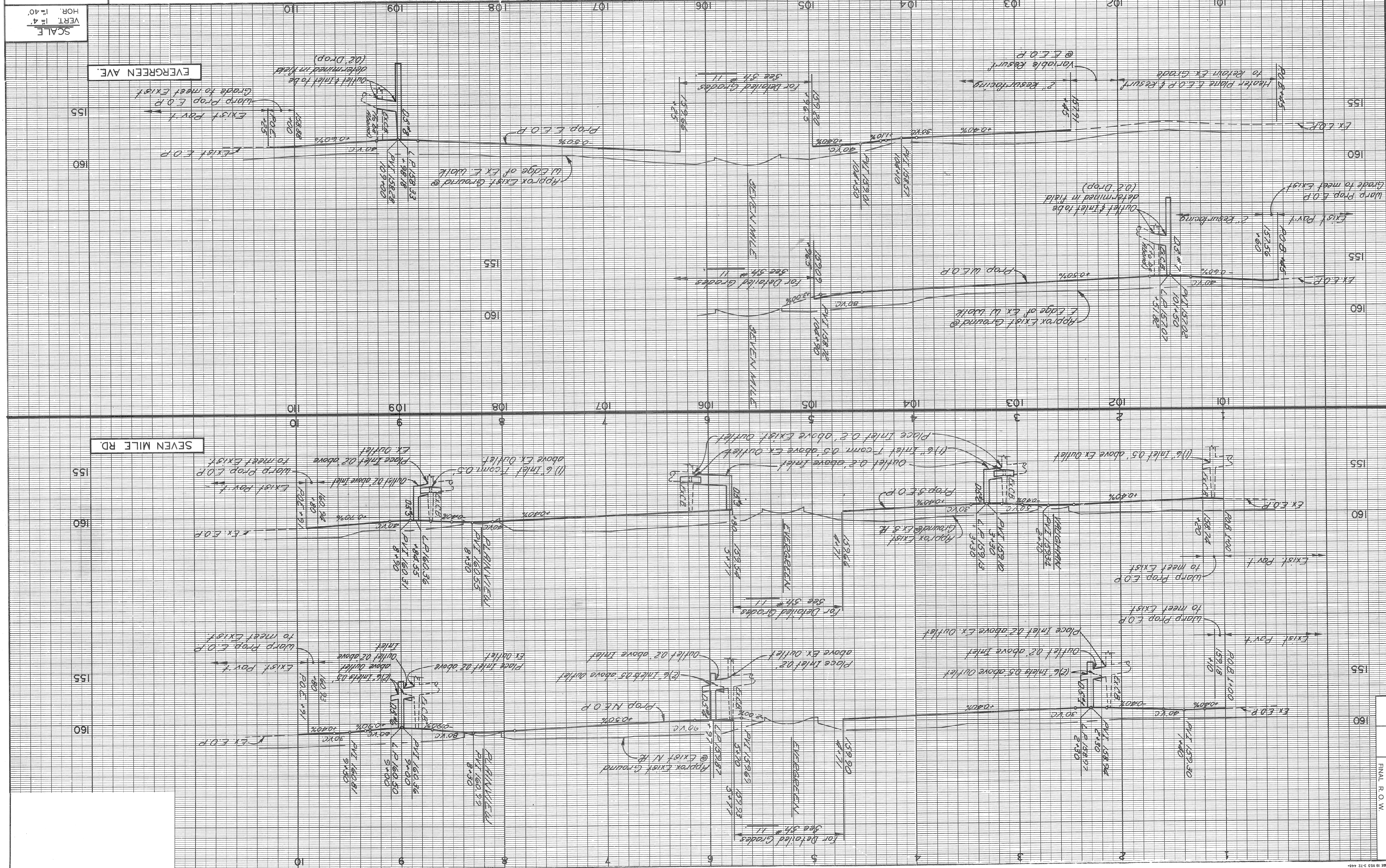
CALL MISS DIG
 48 HOURS PRIOR TO
 CONSTRUCTION 647-7344

NOTES:
 1. For Utility Legends See Sht. # 17.
 2. Locations of exist utility lines are based on the best available records & are not guaranteed for accuracy.



NOTE:
 The existing sidewalk shown along 7-mile & Evergreen assumes that the new sidewalk to be constructed under a separate contract will be done first.

NOTE:
 The removal quantities in this intersection between the property lines extended shall be split equally between C.O.D. & U.C.R.C. Remaining quantities are split: U.C.R.C. (7-Mile) & C.O.D. (Evergreen)



REVISIONS	
DESCRIPTION	DATE

PLAN	GRADE	ESTIMATE	CHECK	REVIEW
Comly	Comly			

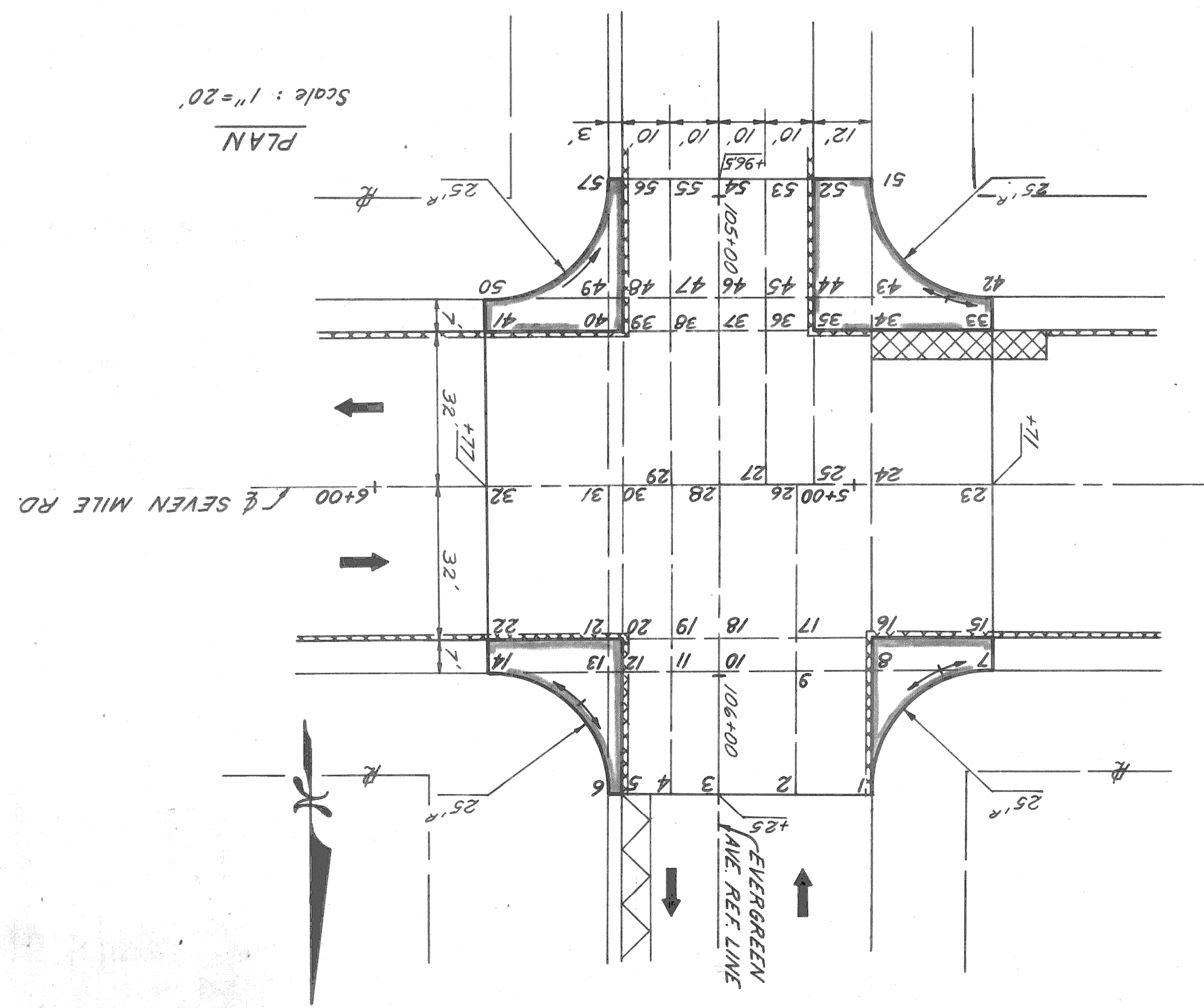
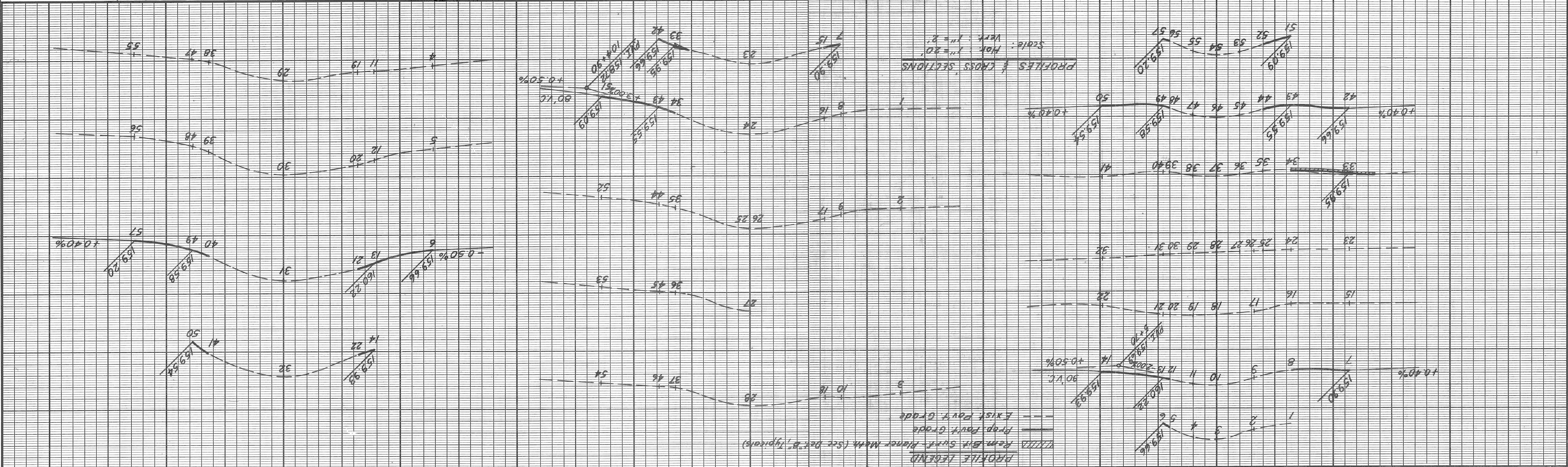
APPROVED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 ENGINEER OF STREETS
 HIGHWAY ENGINEER

CITY OF DETROIT
 BUREAUS OF STREETS AND HIGHWAYS
 CITY ENGINEERING DIVISION
 E.P.M.D.

SEVEN MILE ROAD - EVERGREEN AVE.
 INTERSECTION IMPROVEMENT
 DETAILED GRADES FOR SEVEN MILE RD. AT EVERGREEN AVE.

SHEET	OF	SHEETS
11	42	

CONTRACT NO. 11413A
 ASSIGNMENT NO. 76-22-57
 DATE 11-78



PLAN LEGEND

- ▬ Prop. Part. Limits
- ▬ Exist. or Prop. Part. Edge Outside Det. Grade Area
- ▨ Removing Bituminous Surface
- ▧ Removing Bit. Surf. - Planer Meth. (See Det "C", Typ. Cross Section)

BOOK	LEVEL	DATE	NO. PG. FINISH COMPLETED	SCALE
				HORIZONTAL
				VERTICAL

NOTE - FOR SYMBOLS, ETC. SEE STANDARD DETAIL DRAWING NO. C-177
 MARKS BENCH ELEV.
 BROKE STARTING CONSTRUCTION - CONTRACTOR
 MARK CHECK WITH UTILITIES FOR LOCATION OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS

COORD.	DESCRIPTION	DRN.	C.K.D.	APP'D.	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

DESIGNED BY	
DRAWN BY	Sucech
TRACED BY	
CHECKED BY	IK

APPROVED: _____
 ENGINEER OF STREETS
Mr. J. J. ...
 HIGHWAY ENGINEER

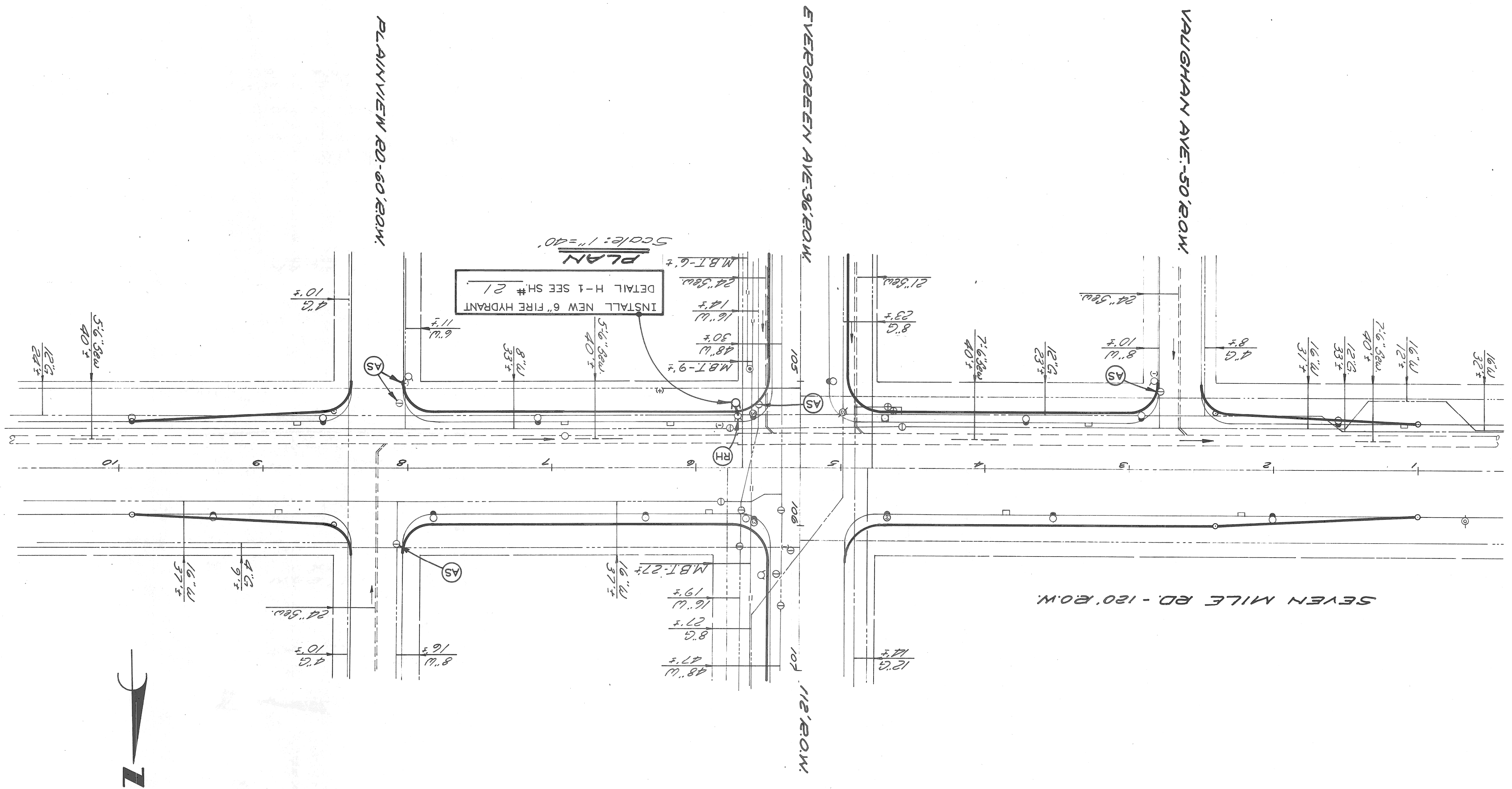
CITY OF DETROIT
 CITY ENGINEERING DIVISION - E.P.M.D.
 BUREAU OF STREETS AND HIGHWAYS

SHEET	12 OF 42 SHEETS
CONTRACT NO.	11413A
ASSIGNMENT	UTILITIES - SEVEN MILE RD.
DATE	11-78

CALL MISS DIG
 48 HOURS PRIOR TO
 CONSTRUCTION 647-7344

NOTES:
 1. For Utility Legends, See Sht. # 17.
 2. Locations of exist utility lines are based on the best available records & are not guaranteed for accuracy.

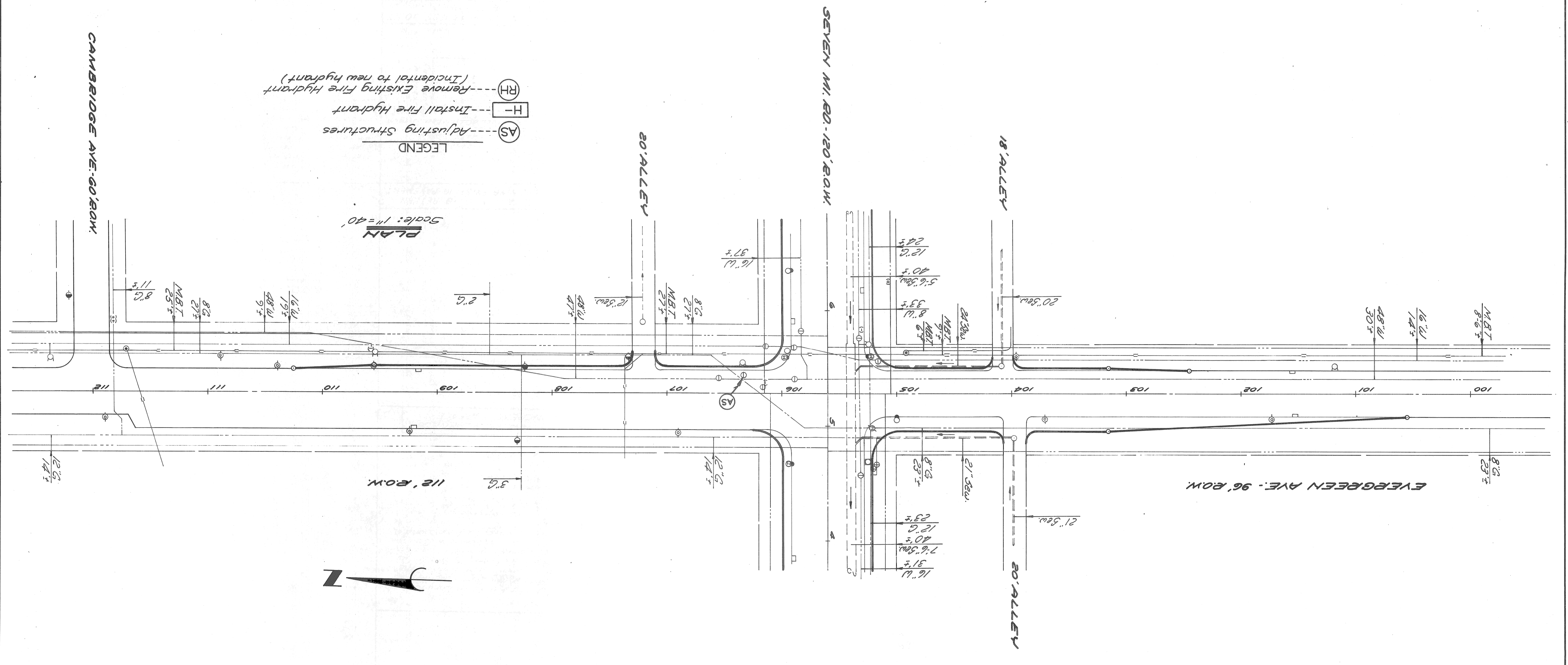
LEGEND
 (AS) --- Adjusting Structures
 (RH) --- Remove Existing Fire Hydrants (Incidental to new hydrant)



CITY OF DETROIT E.P.M.D. CITY ENGINEERING DIVISION		SEVEN MILE RD. - EVERGREEN AVE. INTERSECTION IMPROVEMENT		DATE 11-78
APPROVED: <i>W. E. [Signature]</i>		UTILITIES - EVERGREEN AVE.		DRWG NO. 1143A
DESIGNED BY	DRAWN BY <i>Sucech</i>	SHEET 13 OF 42 SHEETS		CONTRACT NO. 1143A
REFERENCE DRAWINGS	TRACED BY	SHEET 13 OF 42 SHEETS		CONTRACT NO. 1143A
REVISIONS LOCATED BY COORDINATES ON SHEET	CHECKED BY <i>W.B.</i>	SHEET 13 OF 42 SHEETS		CONTRACT NO. 1143A
COORDS		SHEET 13 OF 42 SHEETS		CONTRACT NO. 1143A
DESCRIPTION		SHEET 13 OF 42 SHEETS		CONTRACT NO. 1143A
DATE		SHEET 13 OF 42 SHEETS		CONTRACT NO. 1143A

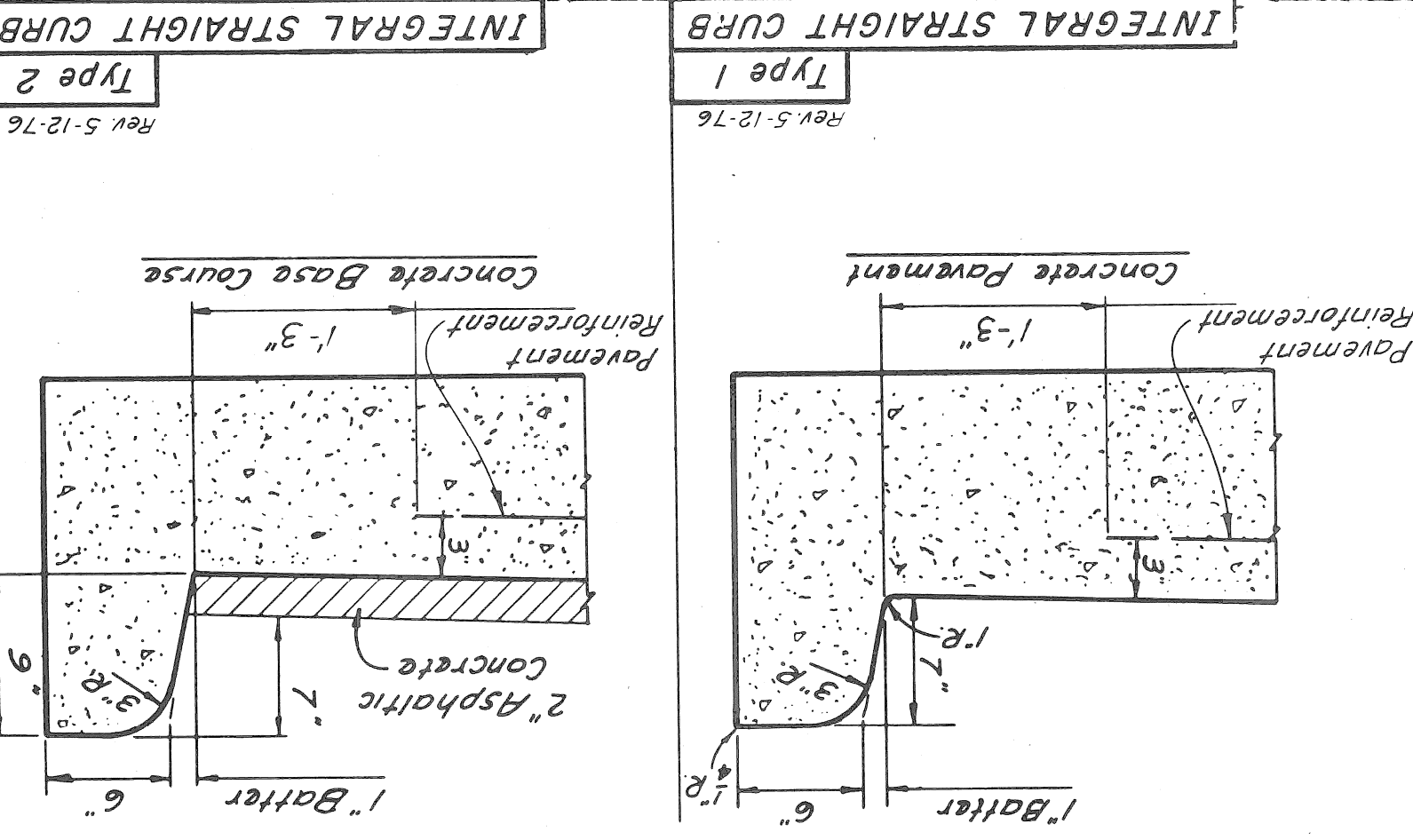
CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

NOTES:
1. For Utility Legend, See Gh. # 17.
2. Locations of existing utility lines are based on the best available records & are not guaranteed for accuracy.



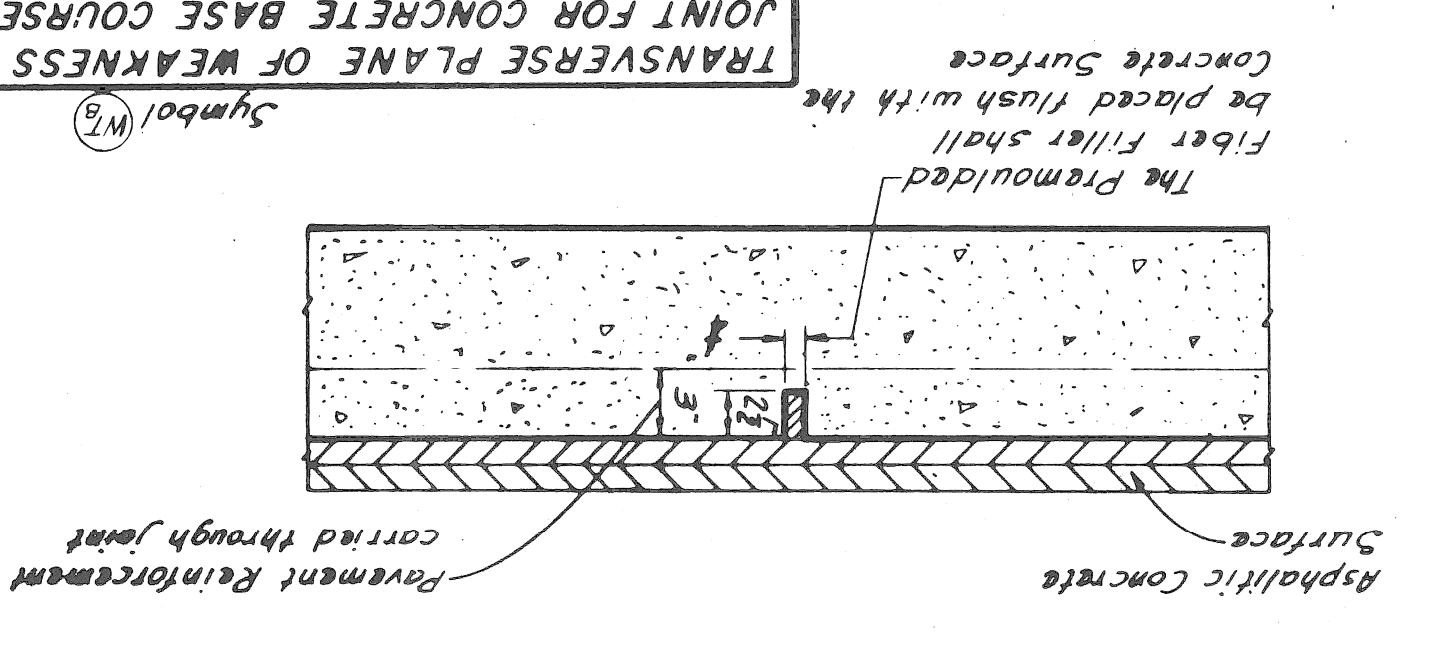
INTEGRAL CURBS

ALL TRANSVERSE JOINTS IN THE CONCRETE PAVEMENT SHALL EXTEND ENTIRELY THROUGH THE INTEGRAL CURB AND BE OF THE SAME KIND AND THICKNESS AS PROVIDED FOR THE PAVEMENT. EXCEPT THAT A PREMOULDED BITUMINOUS FILLER SHALL BE USED IN THE INTEGRAL CURB WHEN PLACING A TEMPORARY FILLER, SUCH AS STYROFOAM. THE JOINT MATERIAL SHALL BE PRECUT SO AS TO CONFORM TO THE GEOMETRIC SHAPE AND CROSS SECTIONAL AREA OF THE CURB AND SHALL BE PLACED IN CONTACT WITH THE FILLER MATERIAL IN THE PAVEMENT. INTEGRAL CURBS, WHICH ARE PLACED AS PART OF A CONCRETE BASE COURSE PAVEMENT SHALL HAVE TRANSVERSE JOINTS, FORMED BY PLACING A REINFORCED BITUMINOUS FILLER 1/4" THICK, IN EXACT ALIGNMENT WITH ALL JOINTS IN THE BASE COURSE PAVEMENT. THE JOINT MATERIAL SHALL BE PRECUT SO AS TO CONFORM TO THE GEOMETRIC SHAPE AND CROSS SECTIONAL AREA OF THE CURB. THE DECS OF ALL TRANSVERSE JOINTS IN THE INTEGRAL CURB SHALL BE ROUNDED WITH AN APPROVED FINISHING TOOL HAVING A RADIUS OF 1/4 INCH.

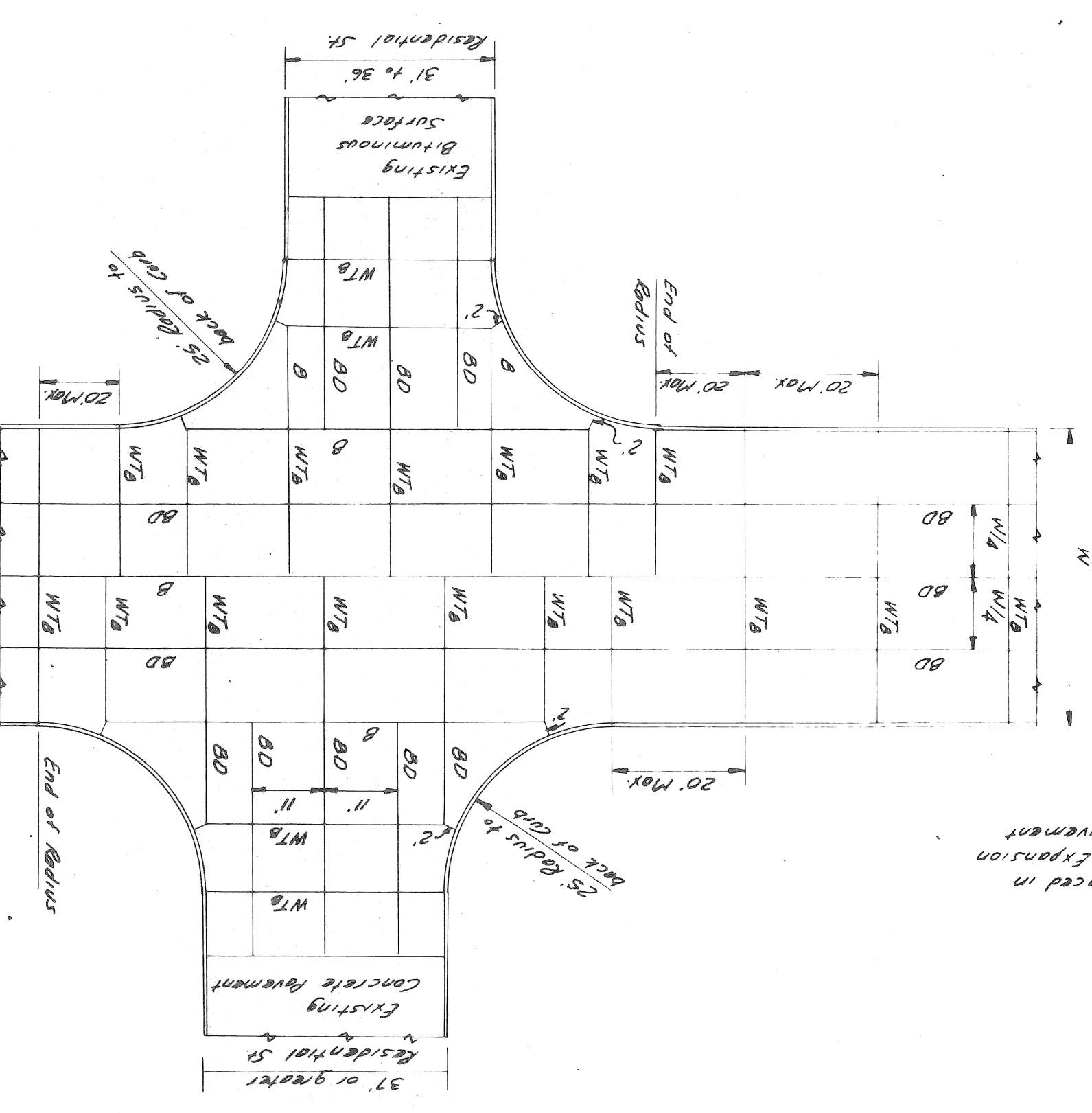
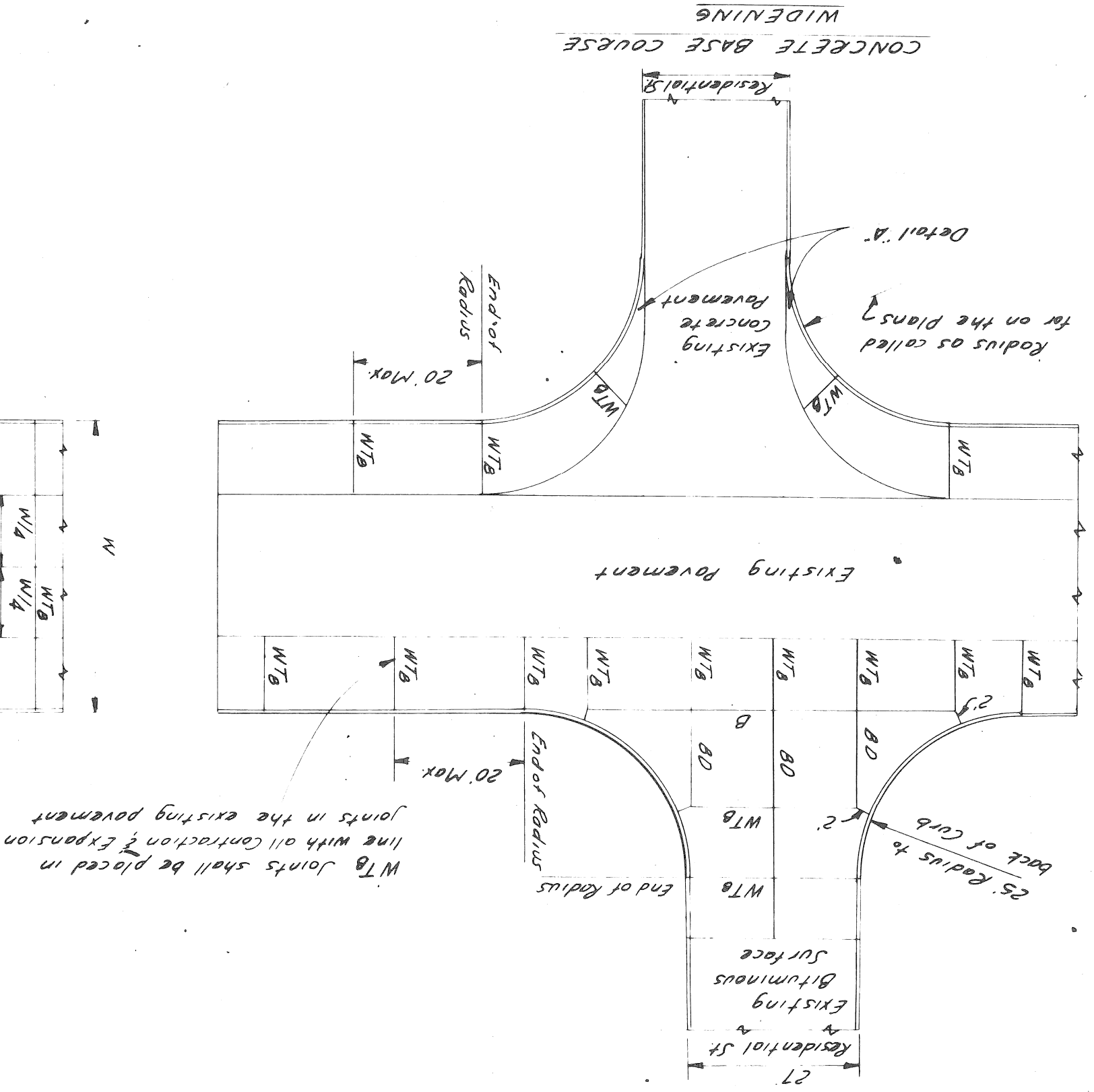


INTEGRAL STRAIGHT CURB
Type 1
REV. 5-12-76

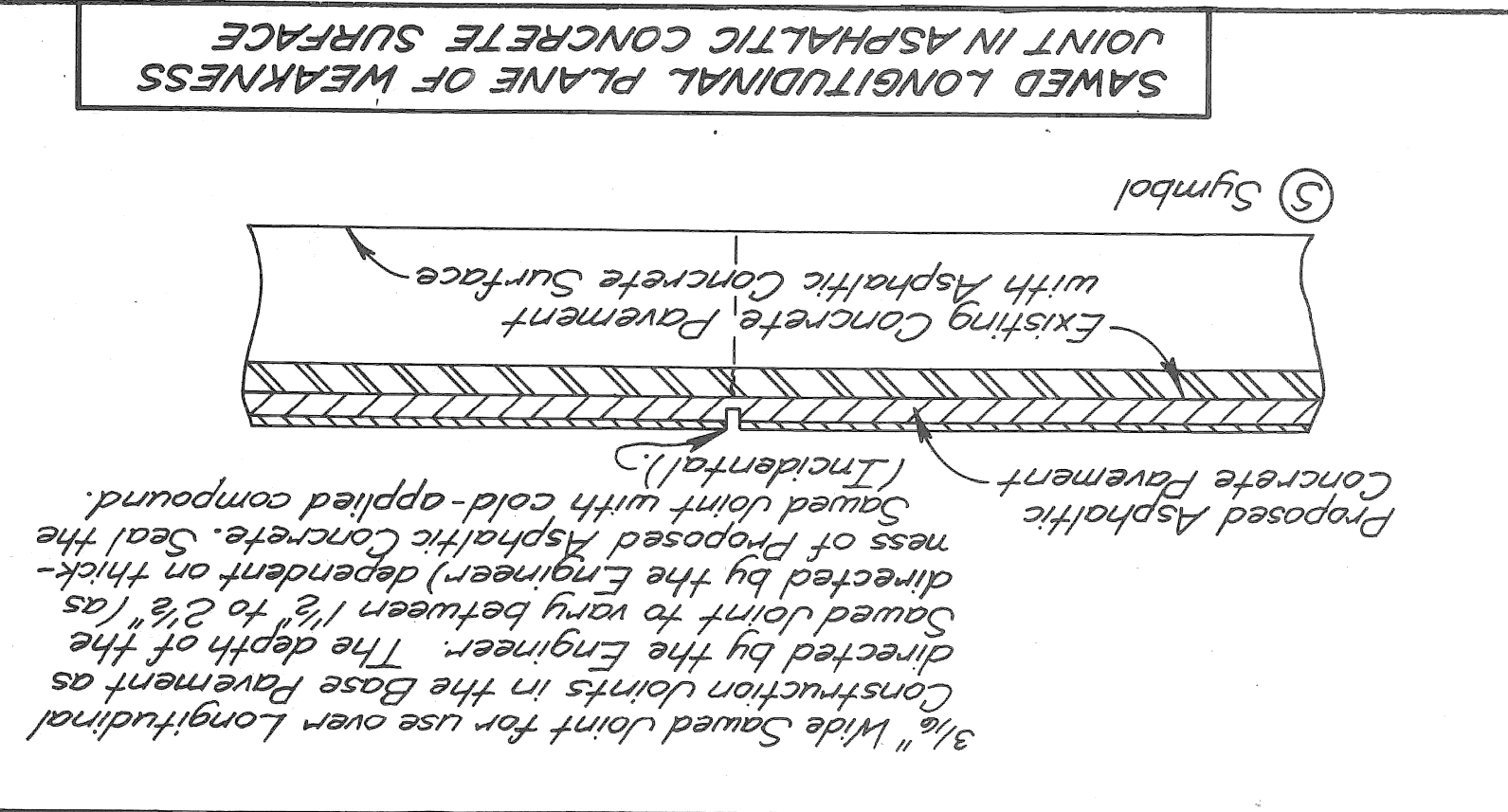
INTEGRAL STRAIGHT CURB
Type 2
REV. 5-12-76



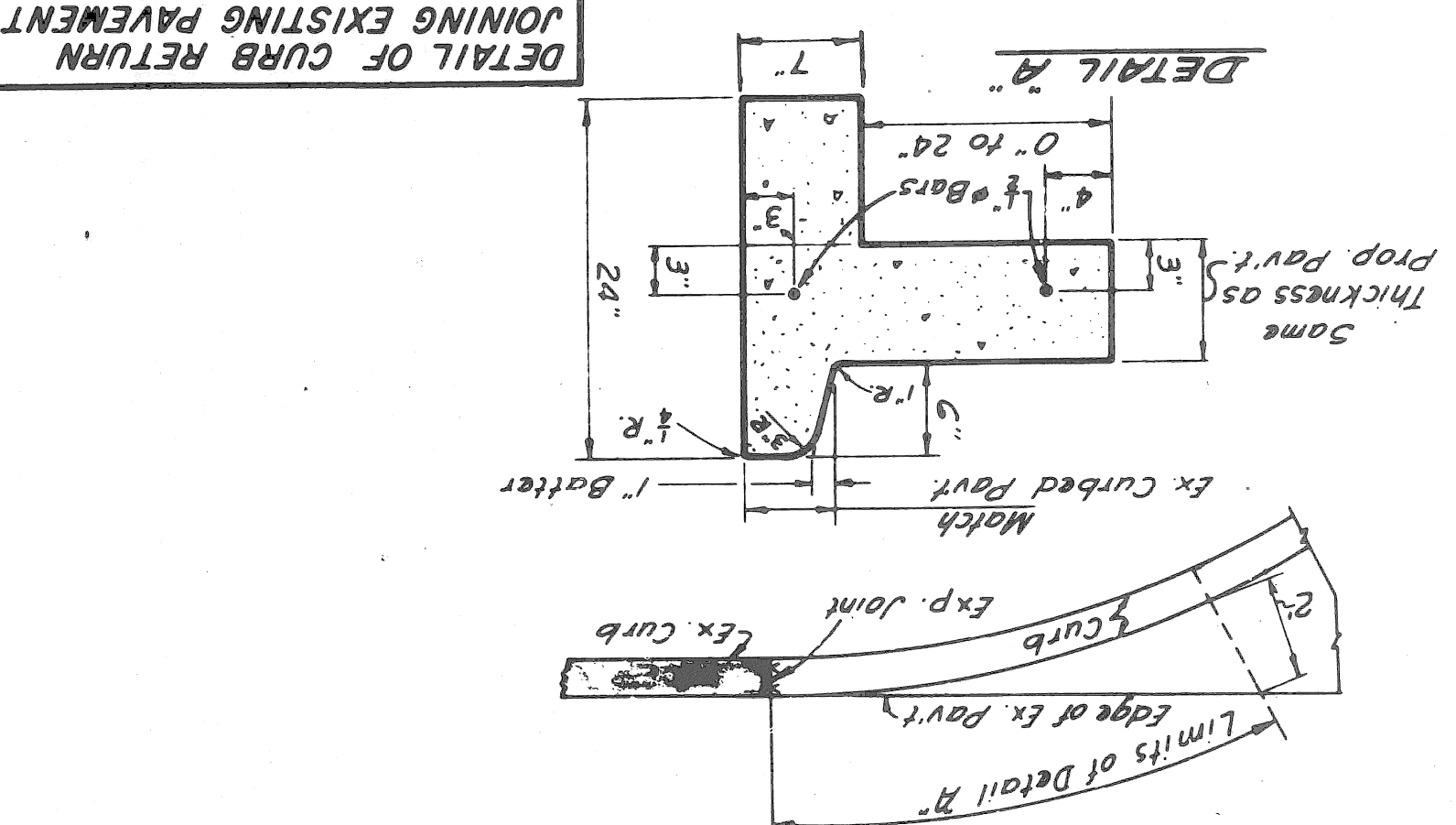
TRANSVERSE PLANE OF WEAKNESS JOINT FOR CONCRETE BASE COURSE
Symbol (WT)



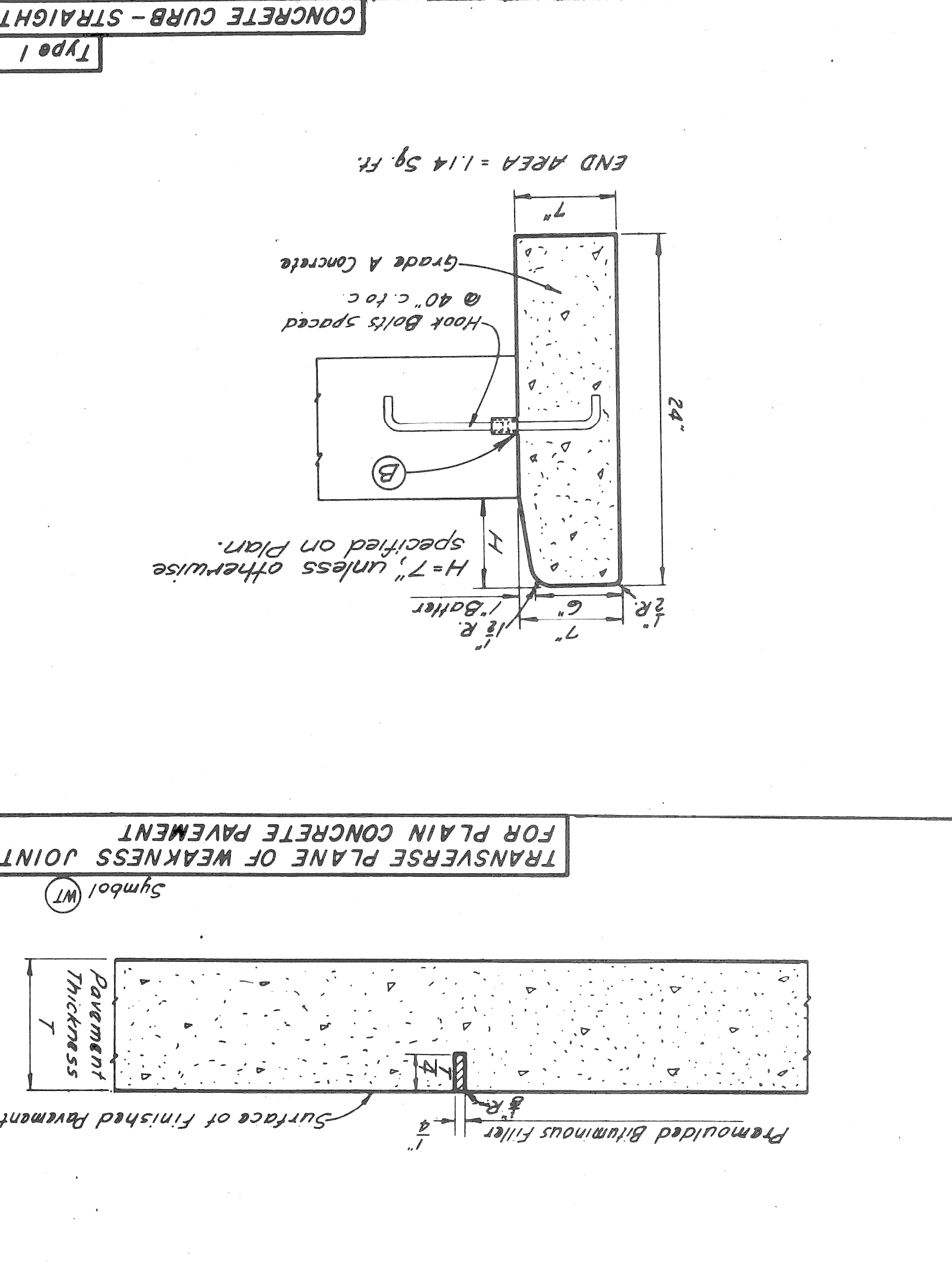
TYPICAL REINFORCED CONCRETE BASE COURSE JOINT LAYOUT



SAWED LONGITUDINAL JOINT IN ASPHALTIC CONCRETE SURFACE
Symbol (S)



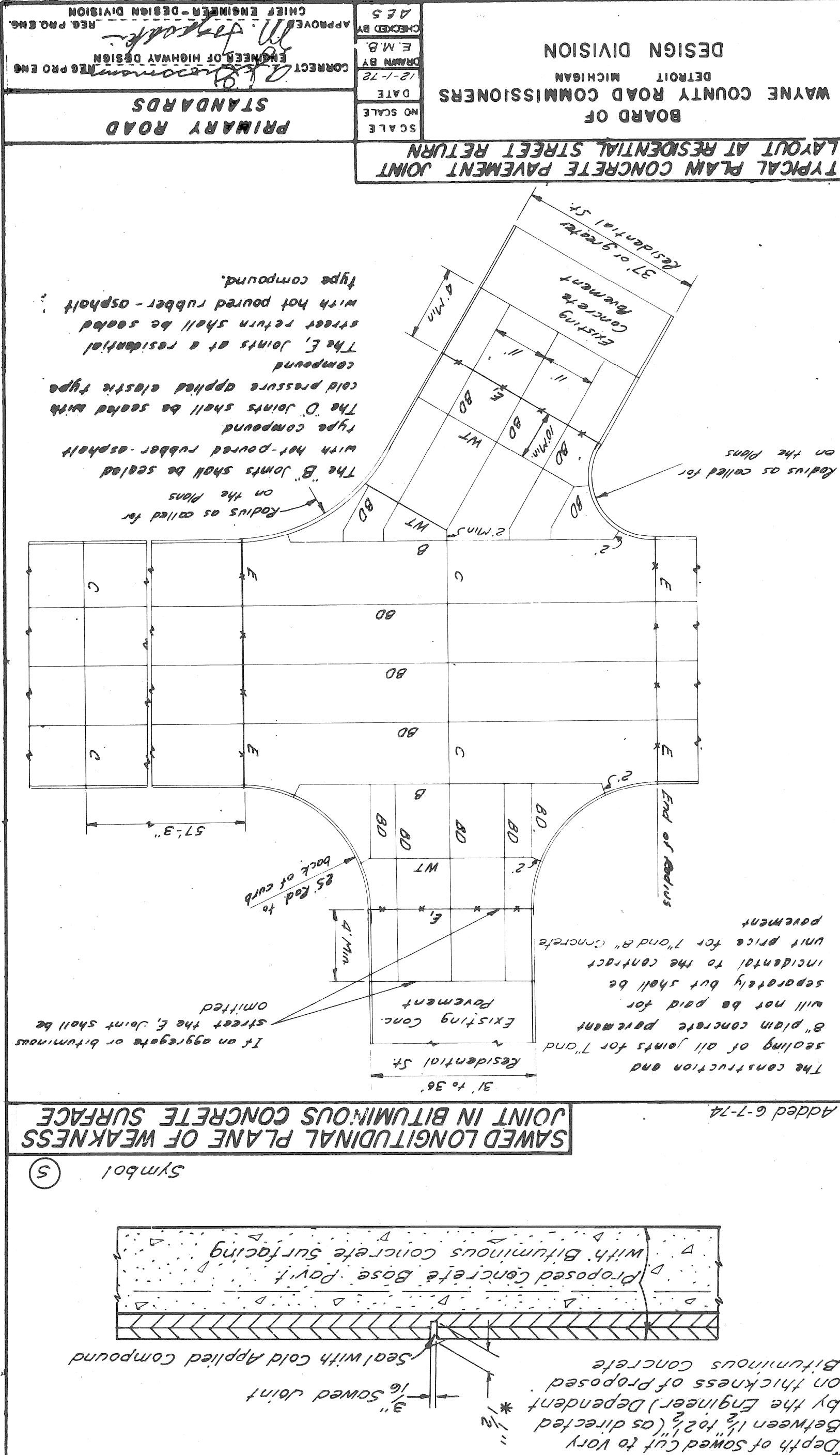
DETAIL OF CURB RETURN JOINING EXISTING PAVEMENT
Symbol (WT)



TRANSVERSE PLANE OF WEAKNESS JOINT FOR PLAIN CONCRETE PAVEMENT
Type 1
CONCRETE CURB - STRAIGHT



SAWED LONGITUDINAL JOINT IN BITUMINOUS CONCRETE SURFACE
Symbol (S)



TYPICAL PLAN CONCRETE PAVEMENT JOINT LAYOUT AT RESIDENTIAL STREET RETURN
BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
DESIGN DIVISION
DETROIT MICHIGAN
STANDARDS
PRIMARY ROAD

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT MICHIGAN
 DATE 12-1-72
 DRAWN BY MEMBER OF HIGHWAY DESIGN
 APPROVED BY CHIEF ENGINEER DESIGN DIVISION
 REG. PRO. ENG. STANDARDS
 PRIMARY ROAD

GENERAL NOTES

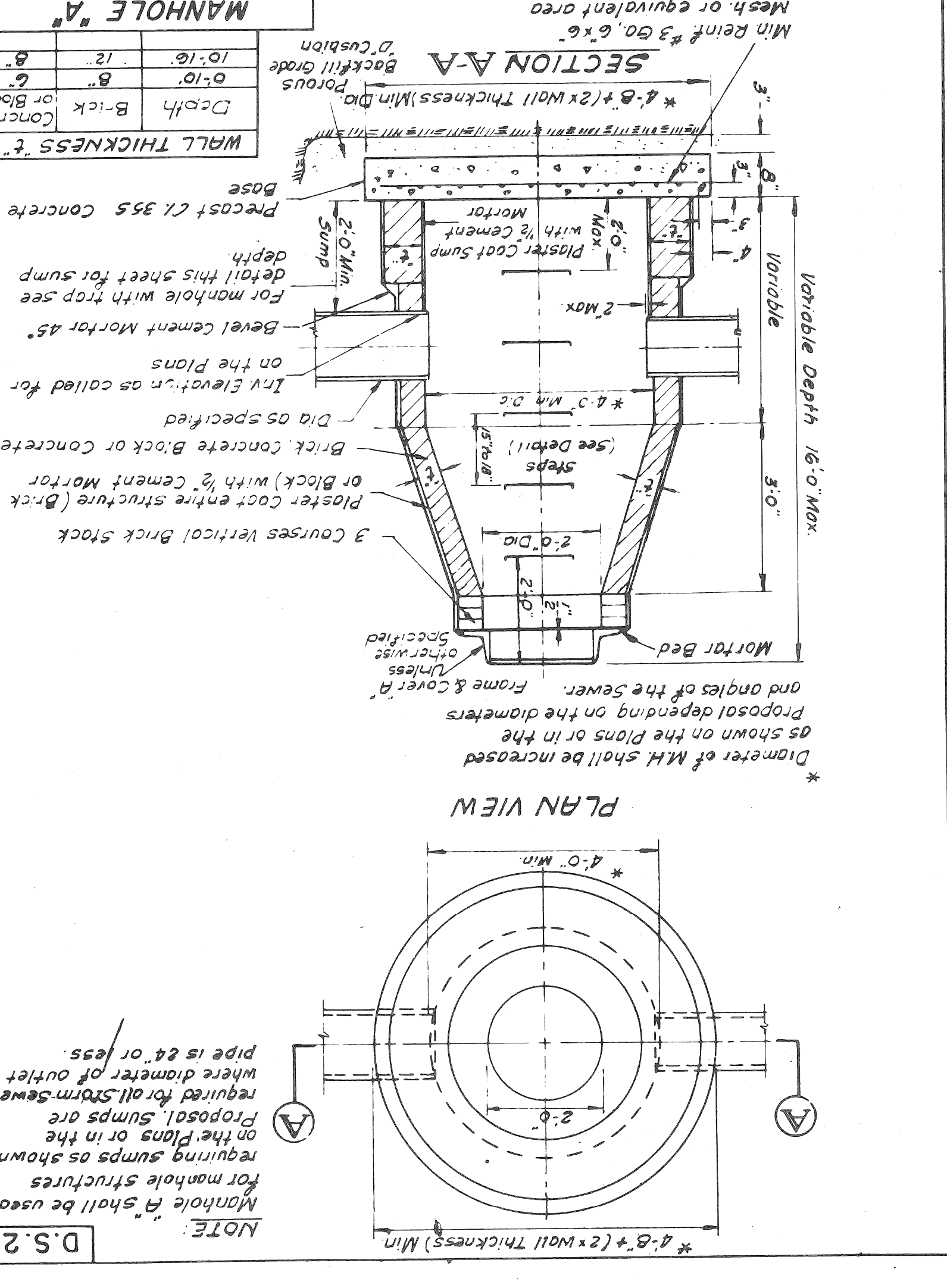
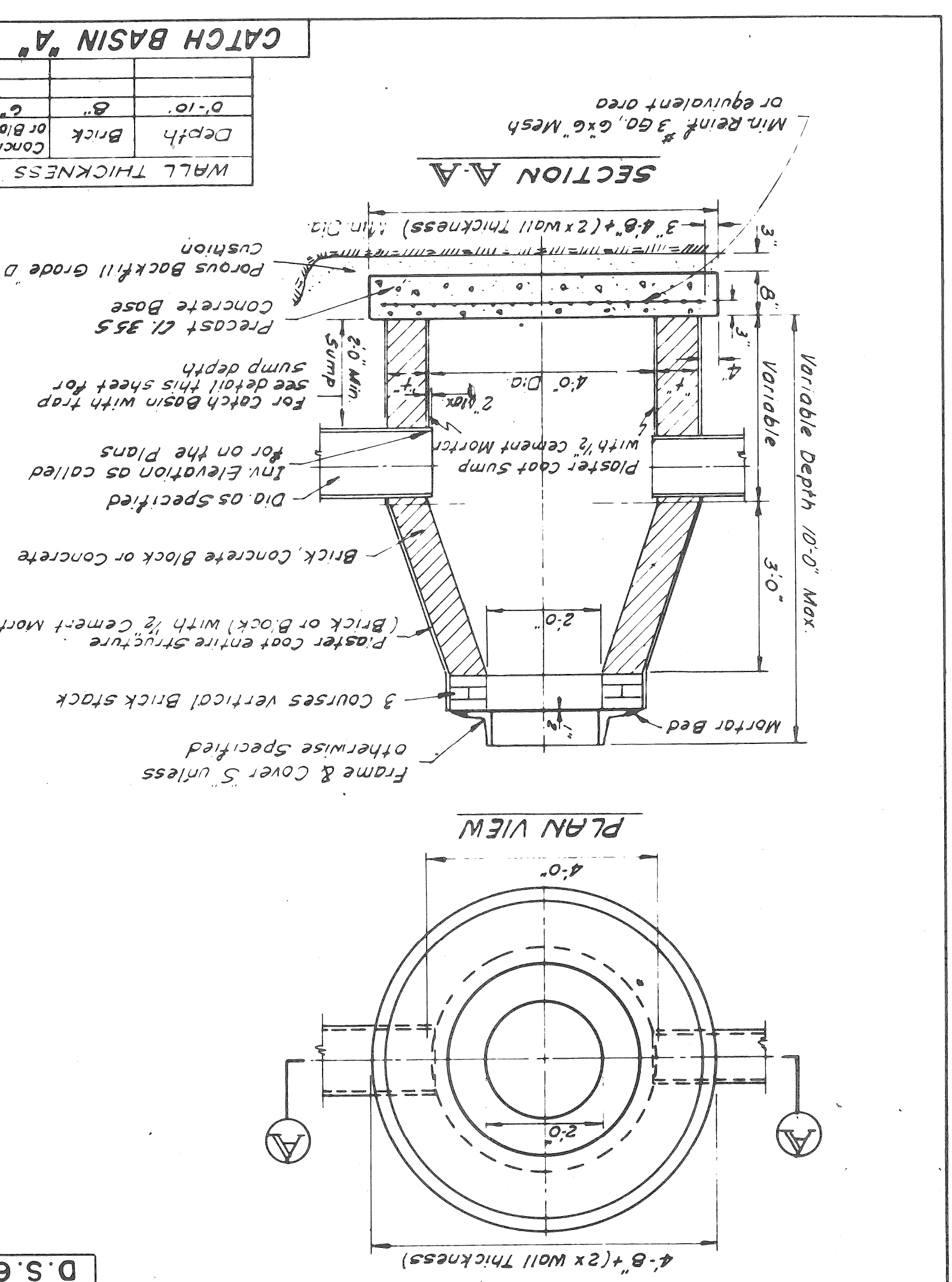
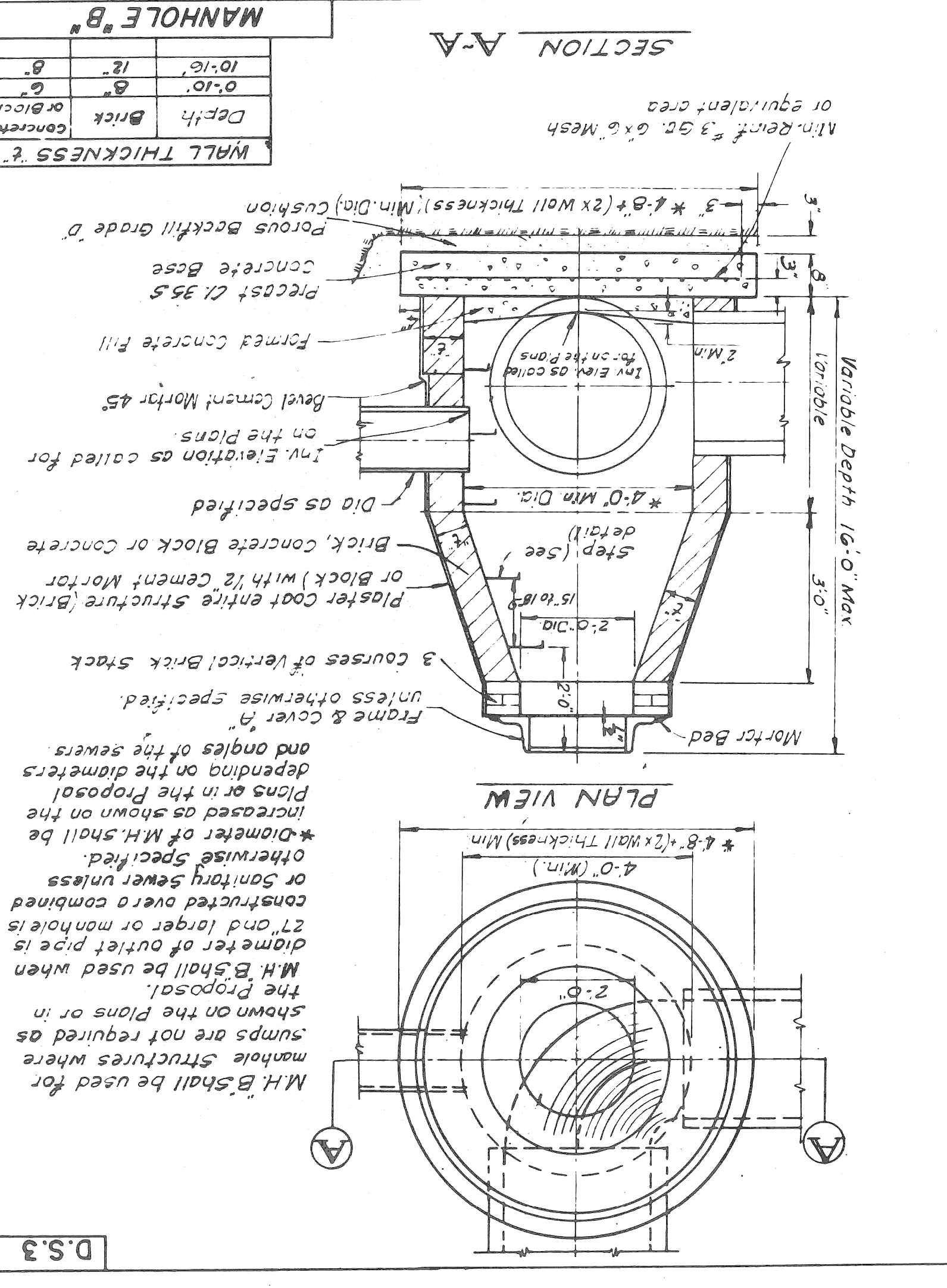
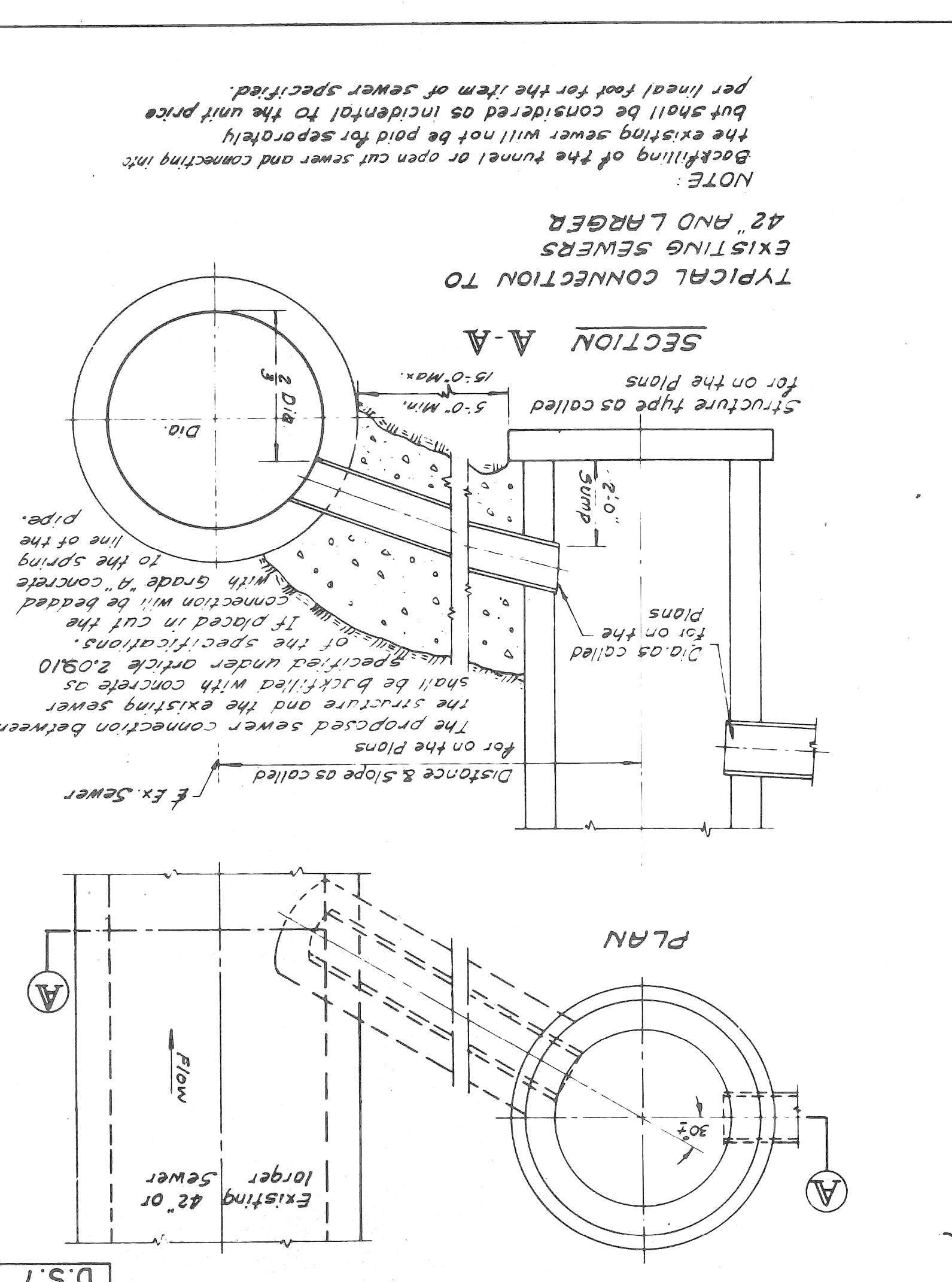
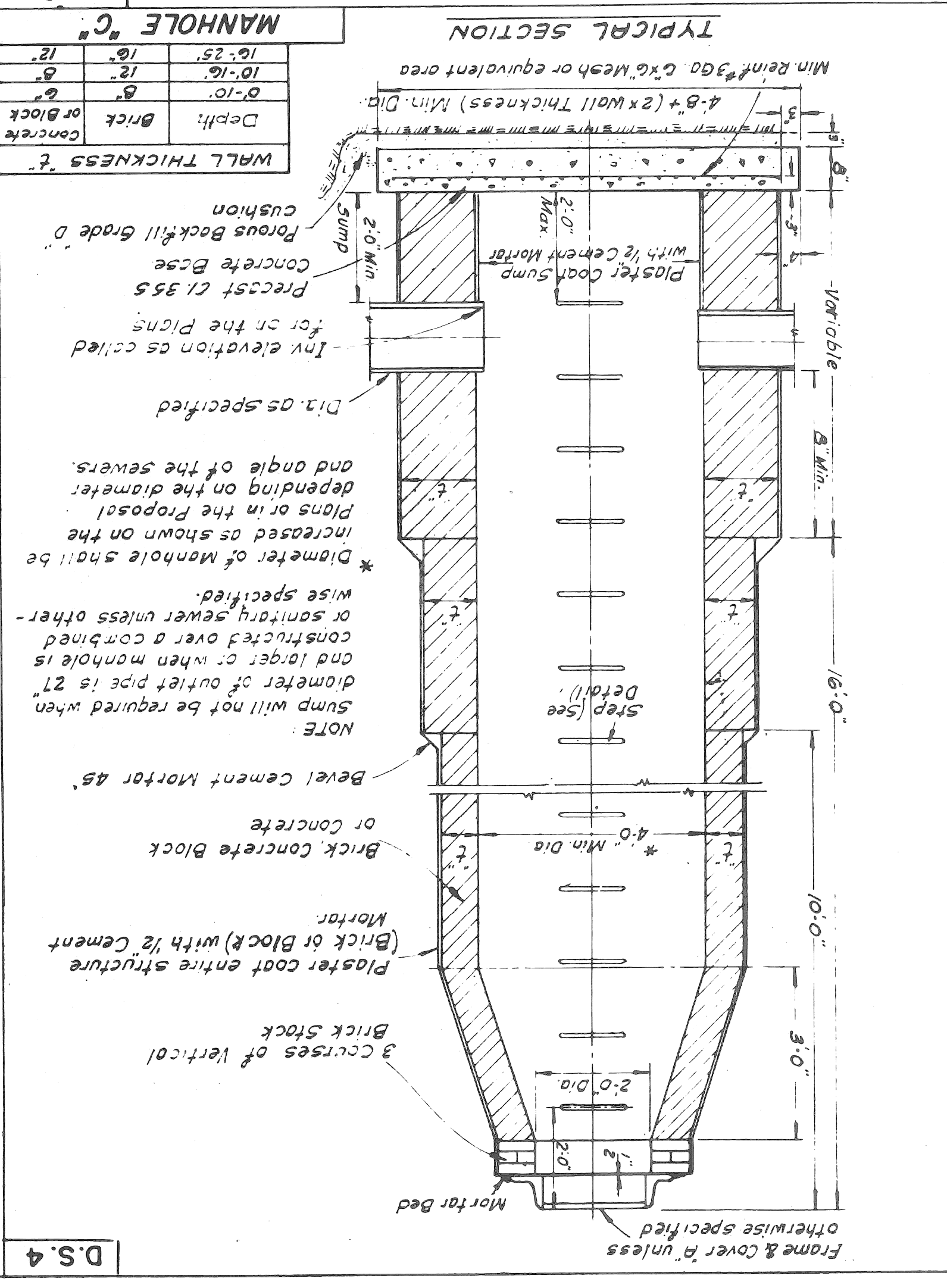
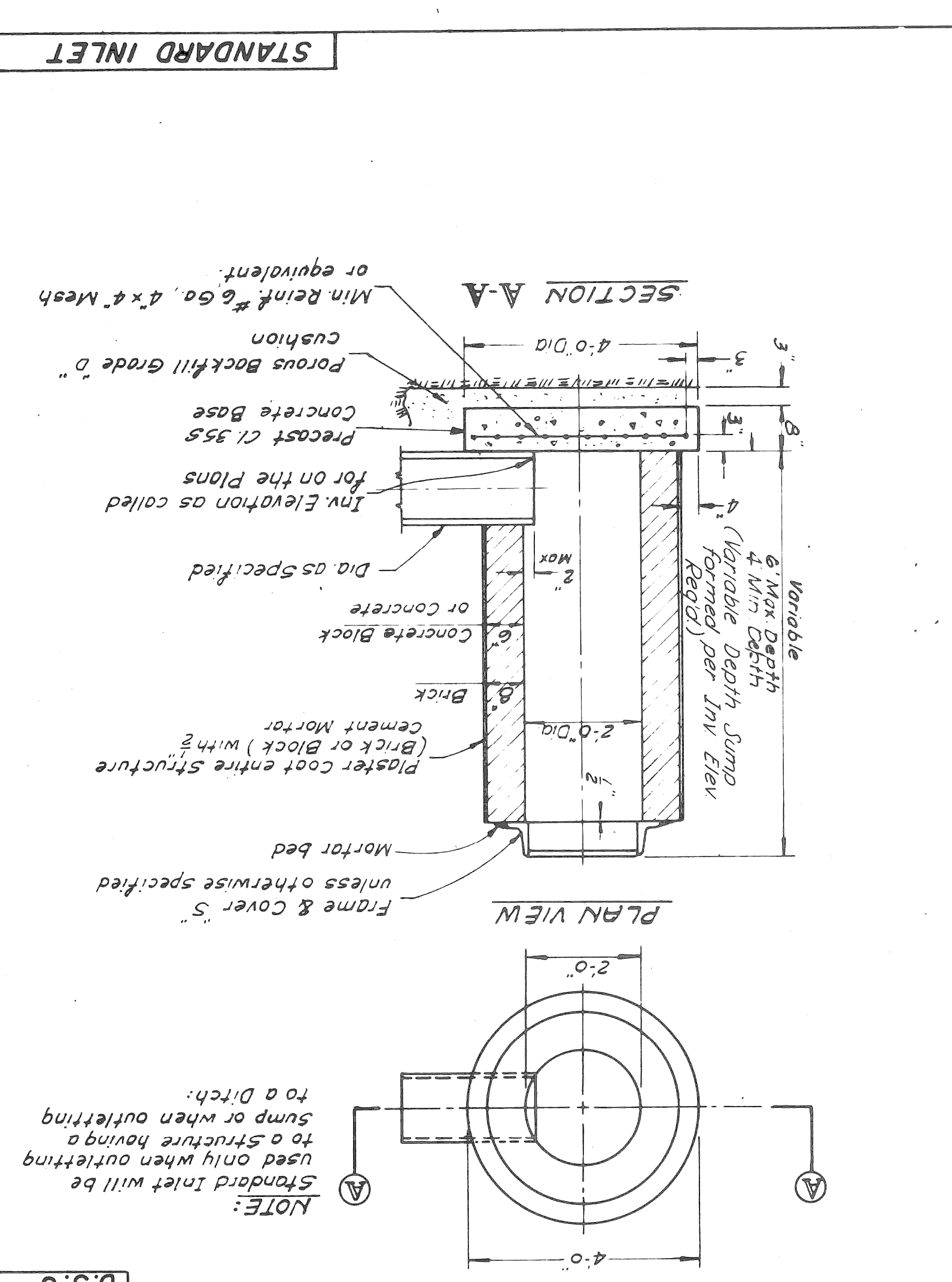
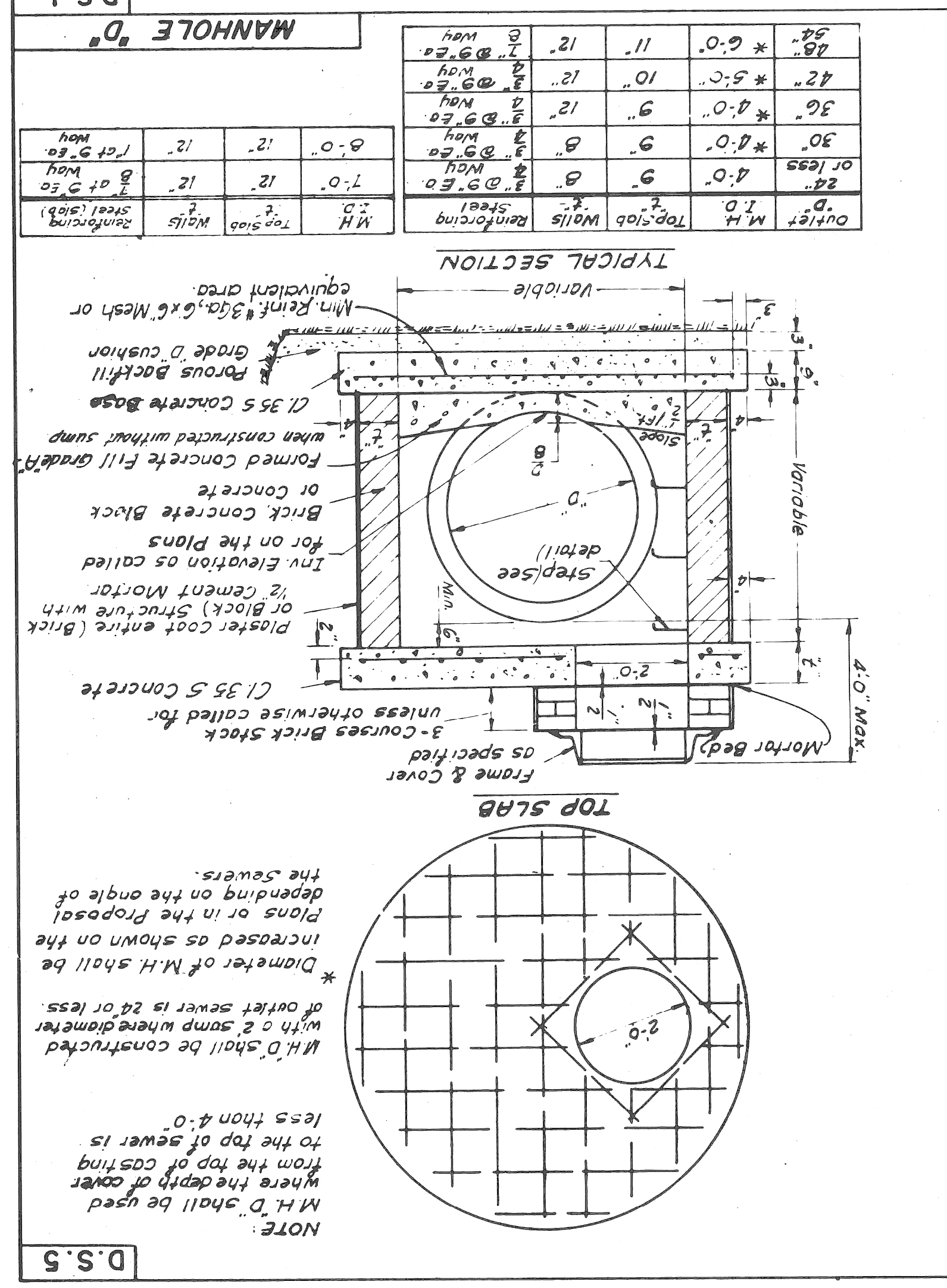
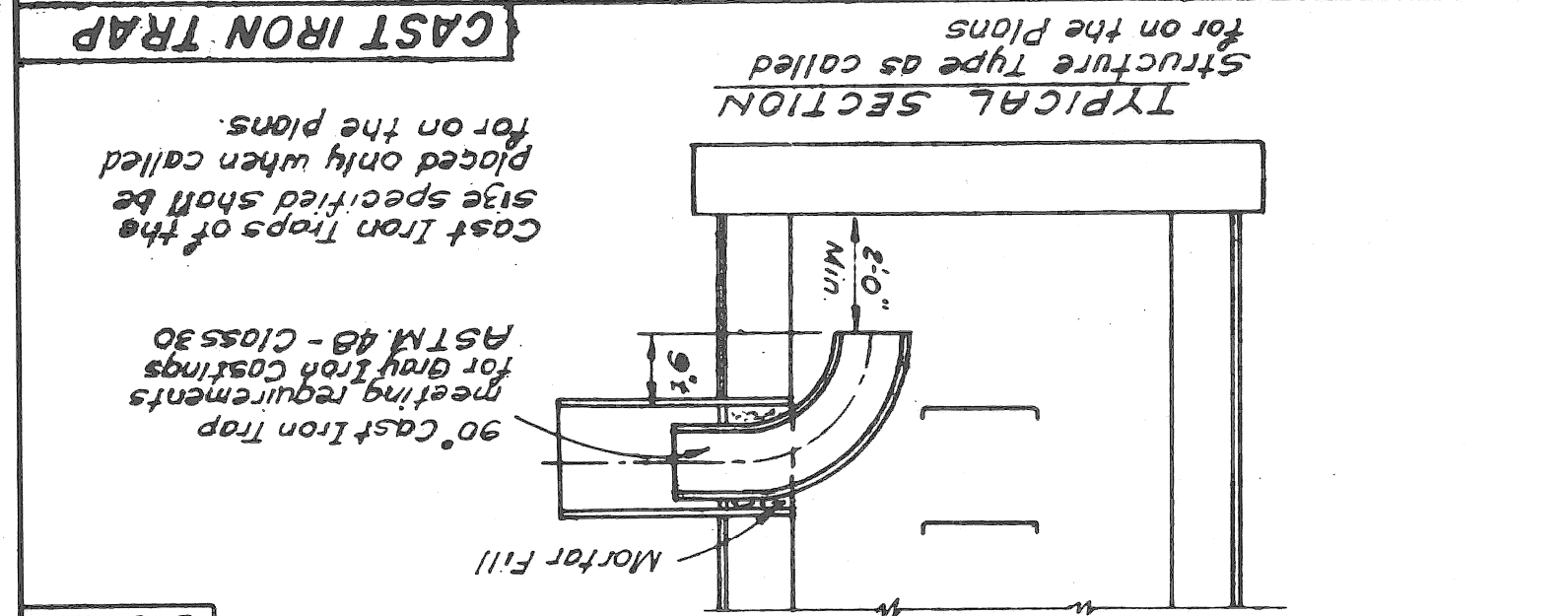
ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT MICHIGAN DEPARTMENT OF STATE HIGHWAYS STANDARD SPECIFICATIONS AND AS FOLLOWS:

- THE CONTRACT UNIT PRICE BID FOR CONSTRUCTING EACH MANHOLE, CATCH BASIN, OR INLET SHALL INCLUDE EXCAVATION AND BACKFILLING WITH POROUS MATERIAL, GRADE "D", AS REQUIRED.

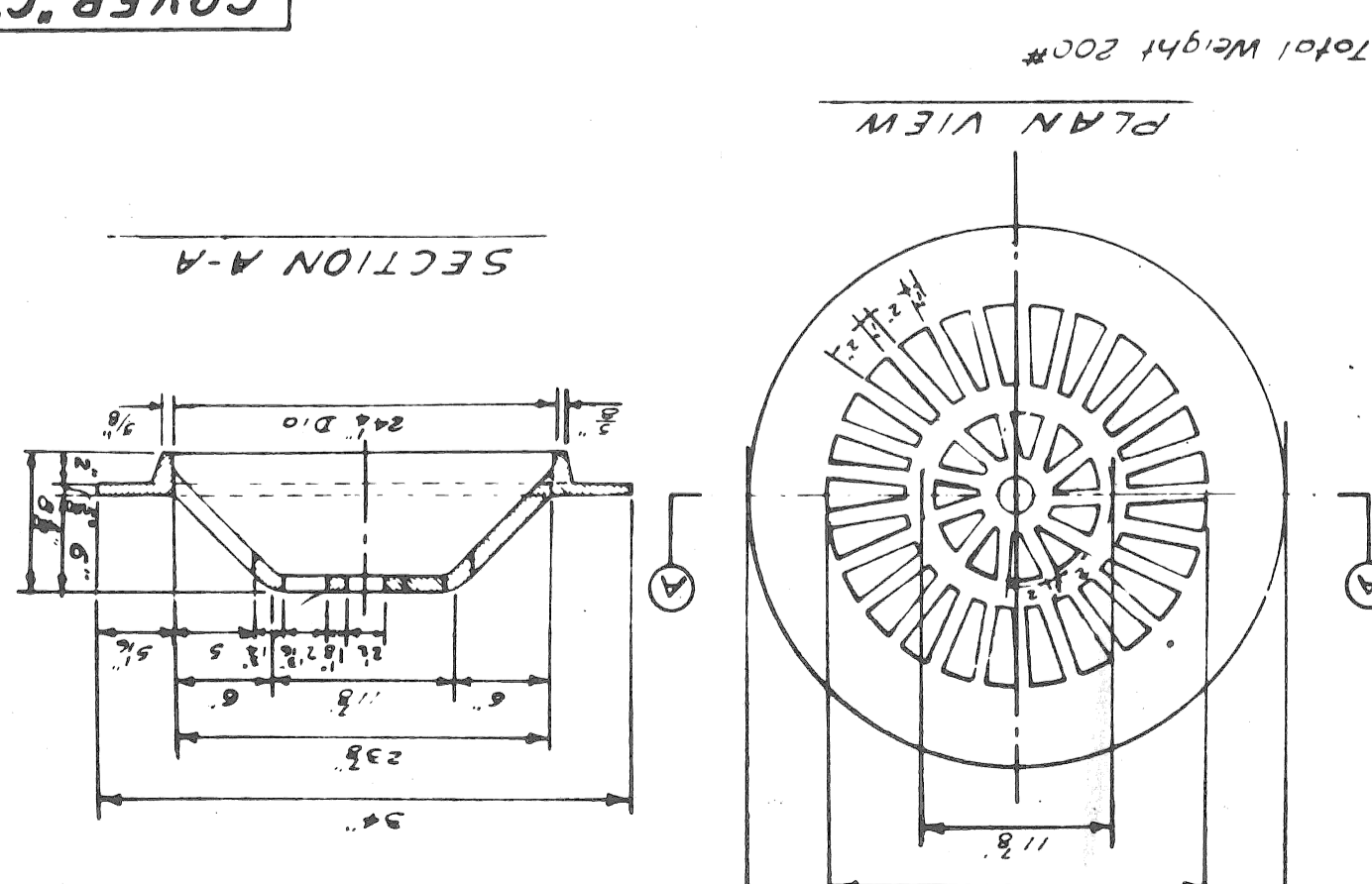
ALL VERTICAL HOLES IN CONCRETE BLOCK STRUCTURES SHALL BE COMPLETELY FILLED WITH MORTAR. VERTICAL JOINTS SHALL BE "BUTTERED".

THE FIRST PIPE LENGTH ENTERING OR LEAVING ANY STRUCTURE SHALL BE TEMPORARILY SUPPORTED BY SUITABLE MEANS UNTIL THE STRUCTURE IS COMPLETED AND BACKFILLED.

A "POURED C1355 CONCRETE BASE", WITHOUT STEEL REINFORCEMENT, MAY BE SUBSTITUTED FOR A PRECAST BASE WHEN APPROVED BY THE ENGINEER. THE POROUS BACKFILL CUSHION WILL NOT BE REQUIRED UNDER THE POURED BASE, UNLESS THE CONTRACTOR HAS EXCAVATED BELOW THE REQUIRED ELEVATION. AT WHICH TIME THE ENGINEER WILL DECIDE AS TO THE MERITS OF INCREASING THE THICKNESS OF THE CONCRETE BASE OR THE USE OF A POROUS BACKFILL CUSHION.

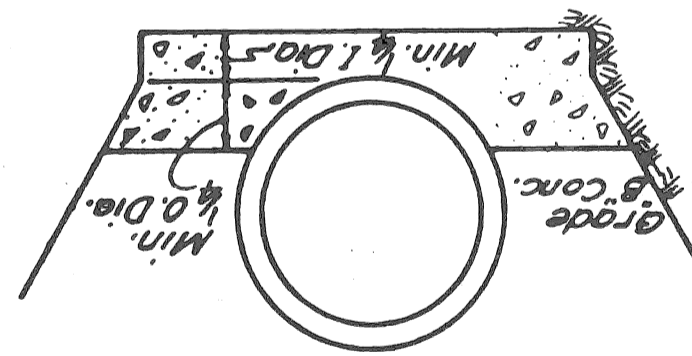


Material - Grey Iron A 5 T.M. 50 Spec. B-48, Class 30



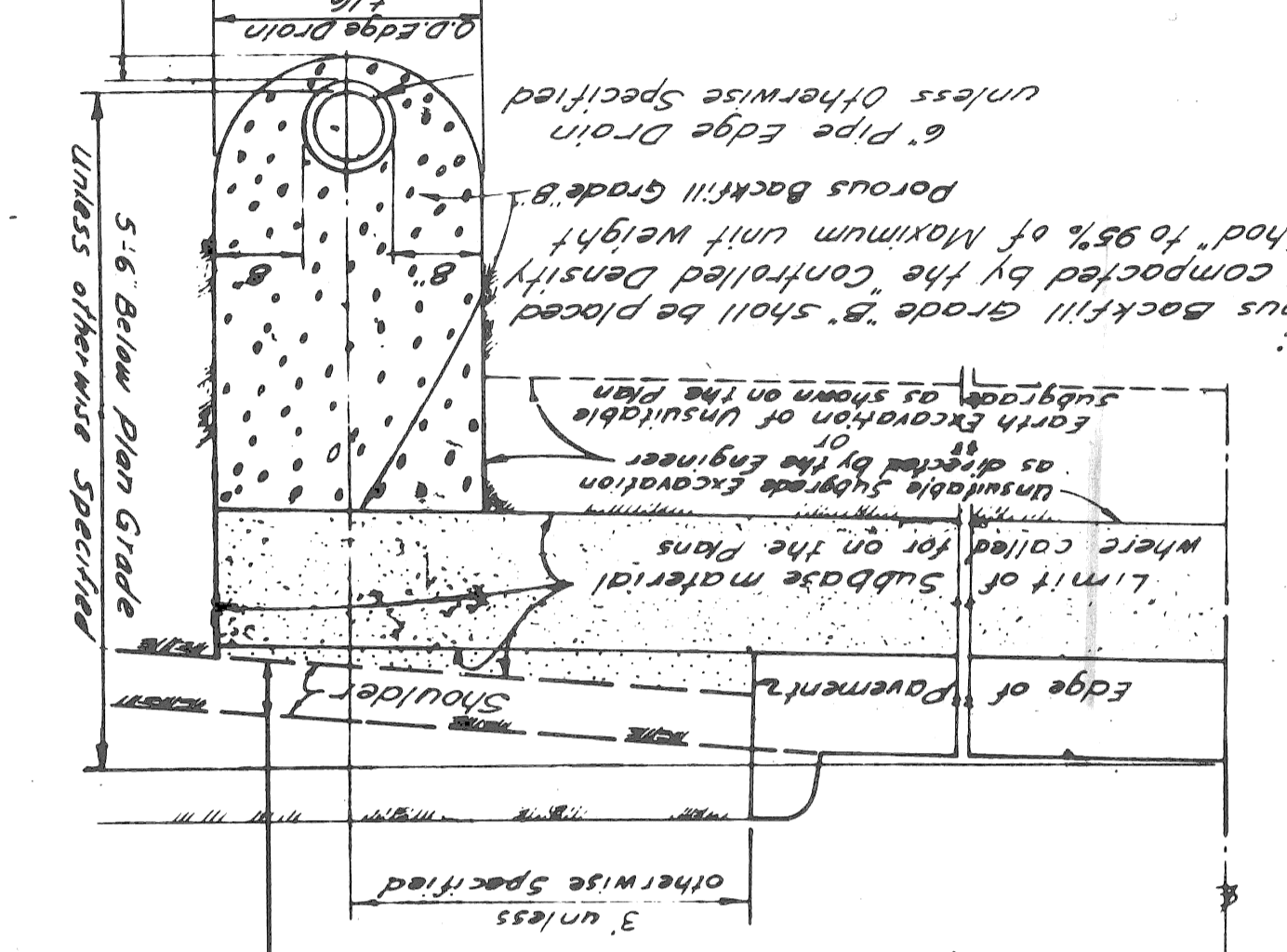
COVER "C"

CONCRETE GRADE



DS-16

SLAB PAVEMENT depth as called WITH SHOULDER for on Plans



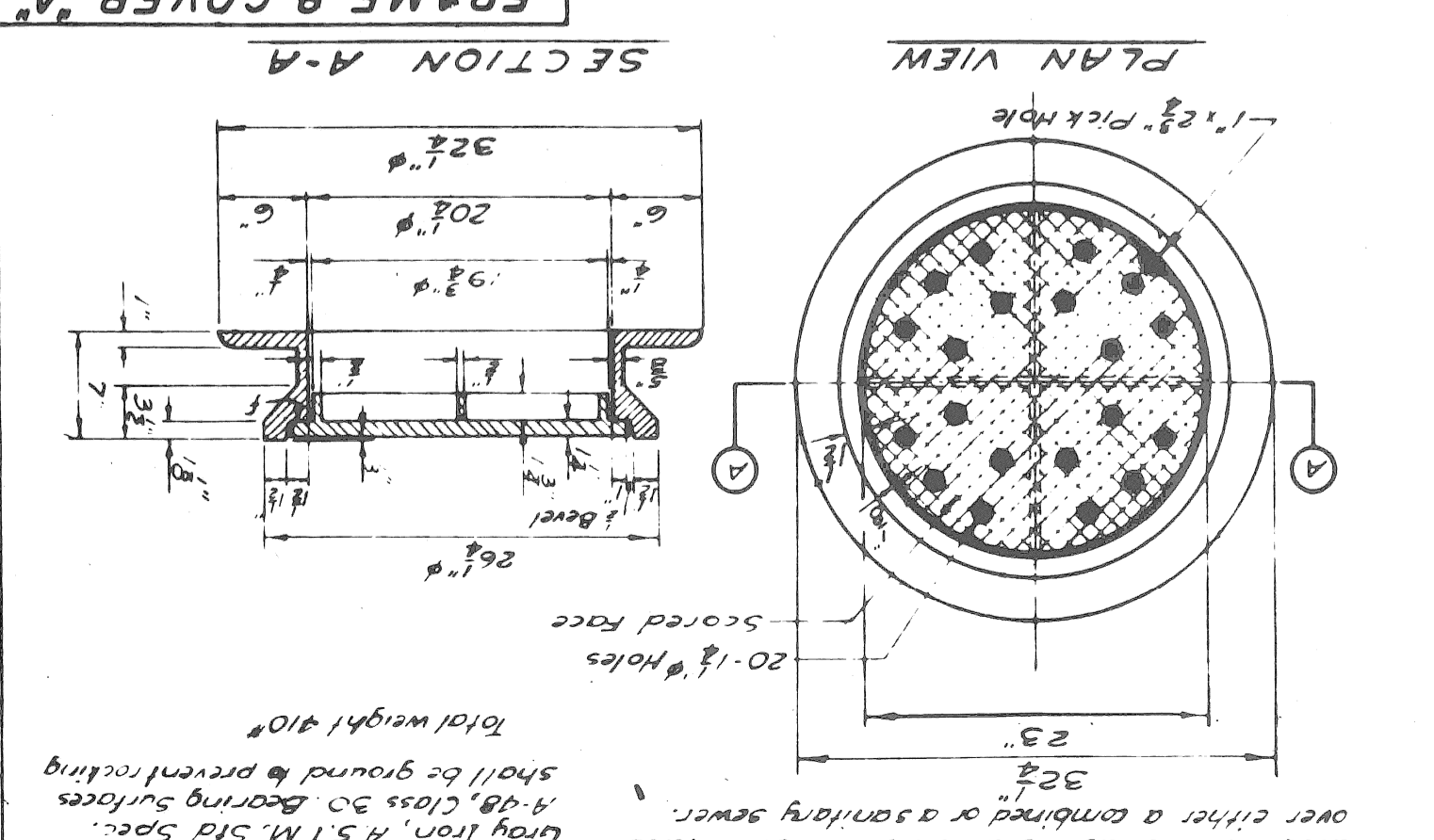
EDGE DRAIN

GENERAL NOTES

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT MICHIGAN DEPARTMENT OF STATE HIGHWAYS STANDARDS SPECIFICATIONS AND AS FOLLOWS:-
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE HIGHWAY DEPARTMENT AND LOCAL AGENCIES.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE HIGHWAY DEPARTMENT AND LOCAL AGENCIES.

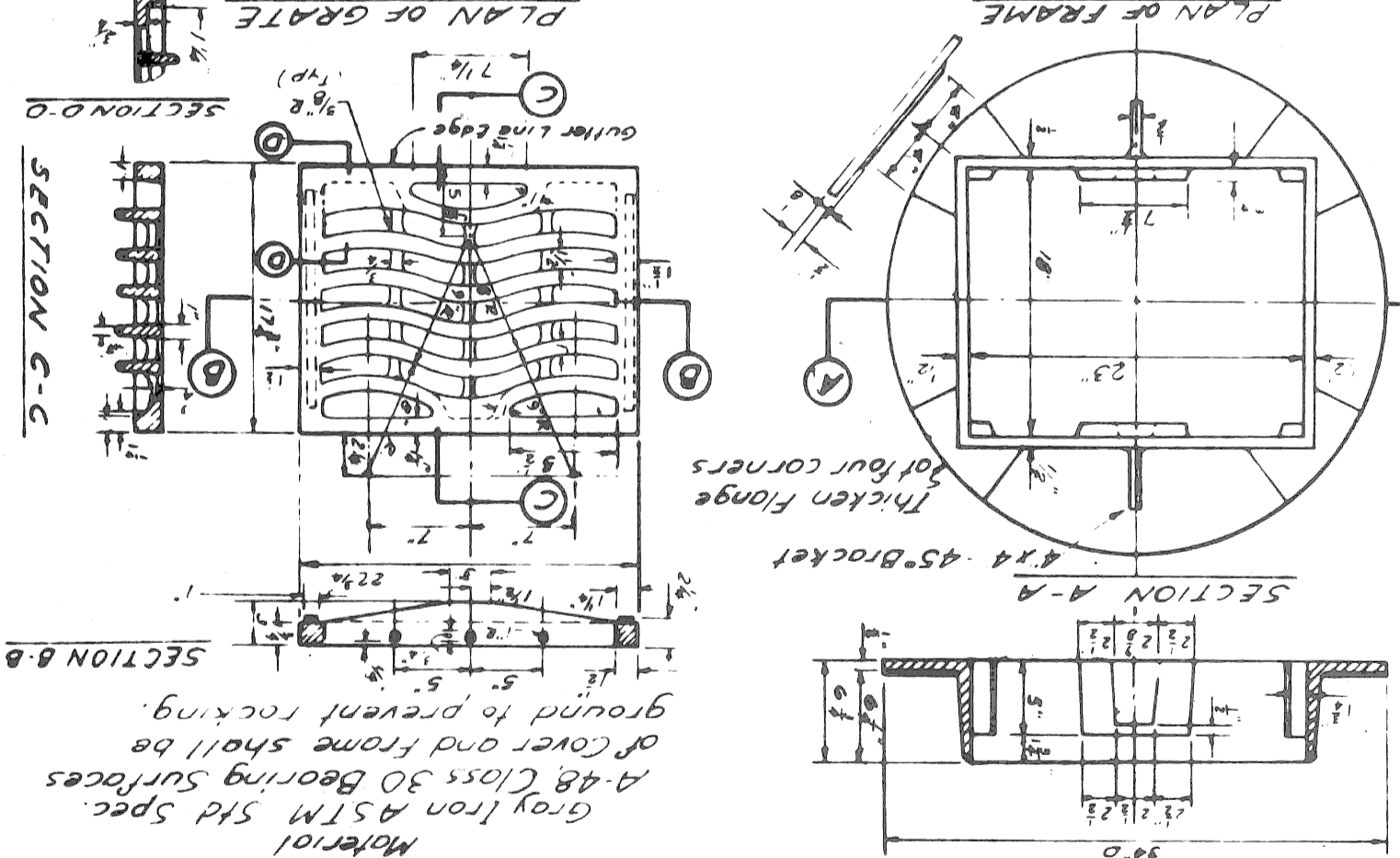
BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
DESIGN DIVISION
DETROIT, MICHIGAN
DATE: 12-1-72
SCALE: AS SHOWN
PROJECT: PRIMARY ROAD STANDARDS

Note: A solid cover shall be provided in lieu of the perforated cover shown, which will be constructed over either a combined or a sanitary sewer.



FRAME & COVER "A"

FRAME & GRATE "S"



DS-15

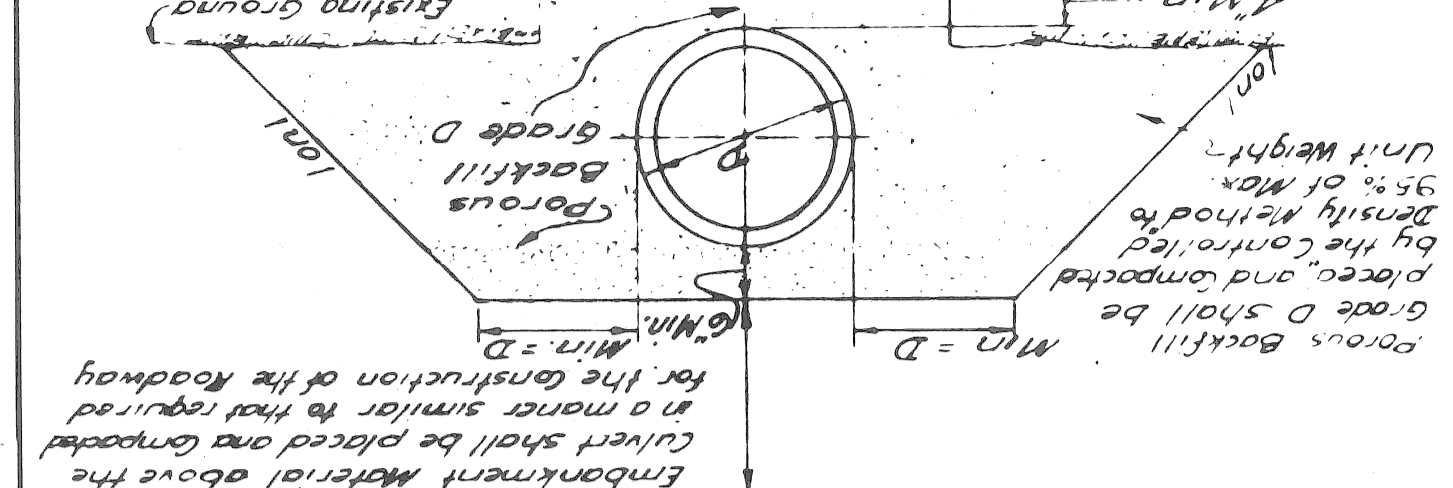
4" minimum clay cover seal unless otherwise specified for trench 24" or 30"



SEWER TRENCH "C"

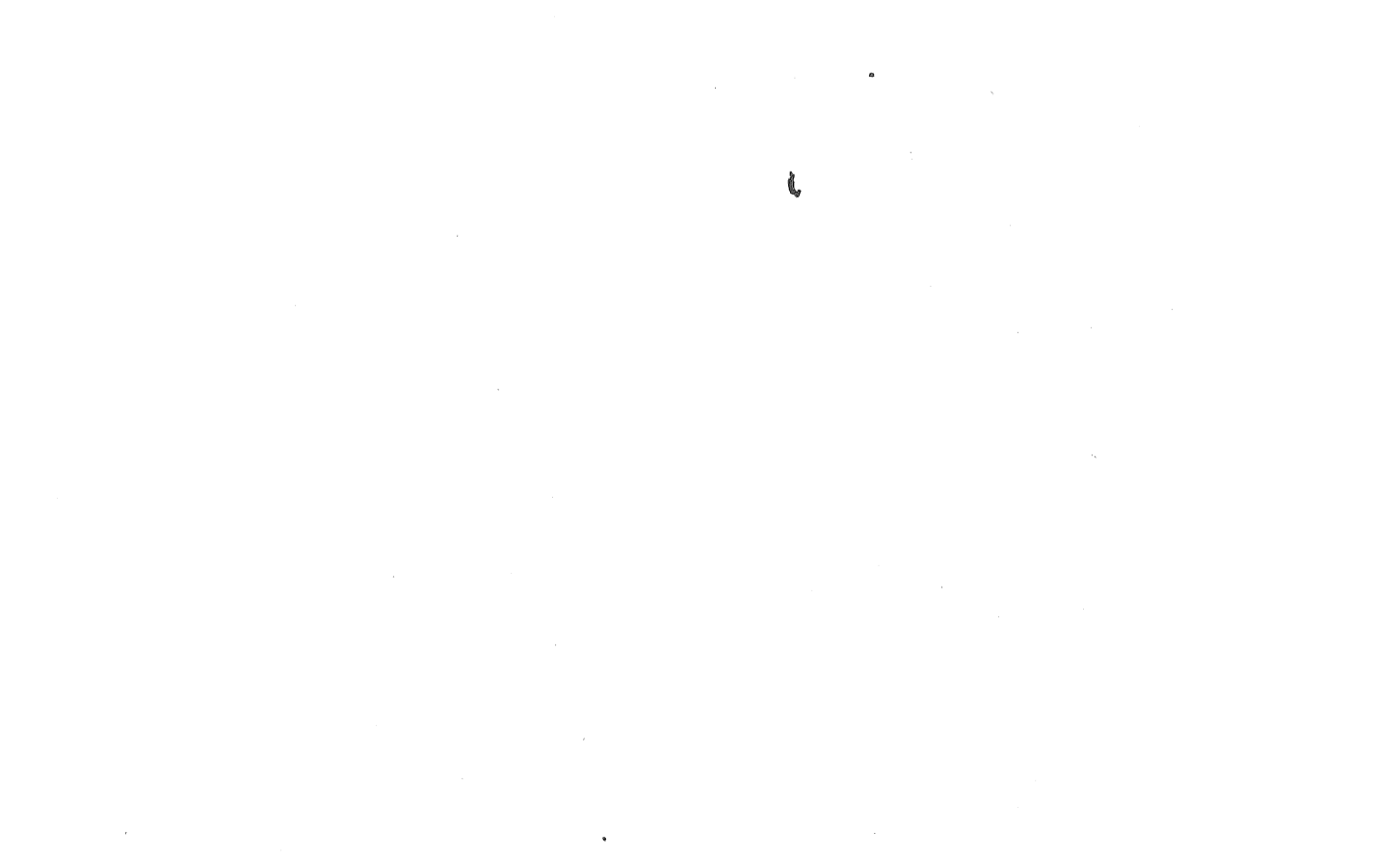
Backfill of sewer trenches where underdrains occupy the same trench

PLASTIC COATED STEEL STEP (as approved)



NOTE: THIS STEP FOR USE IN PRECAST STRUCTURES ONLY.
PLASTIC COATED STEEL STEP (as approved)

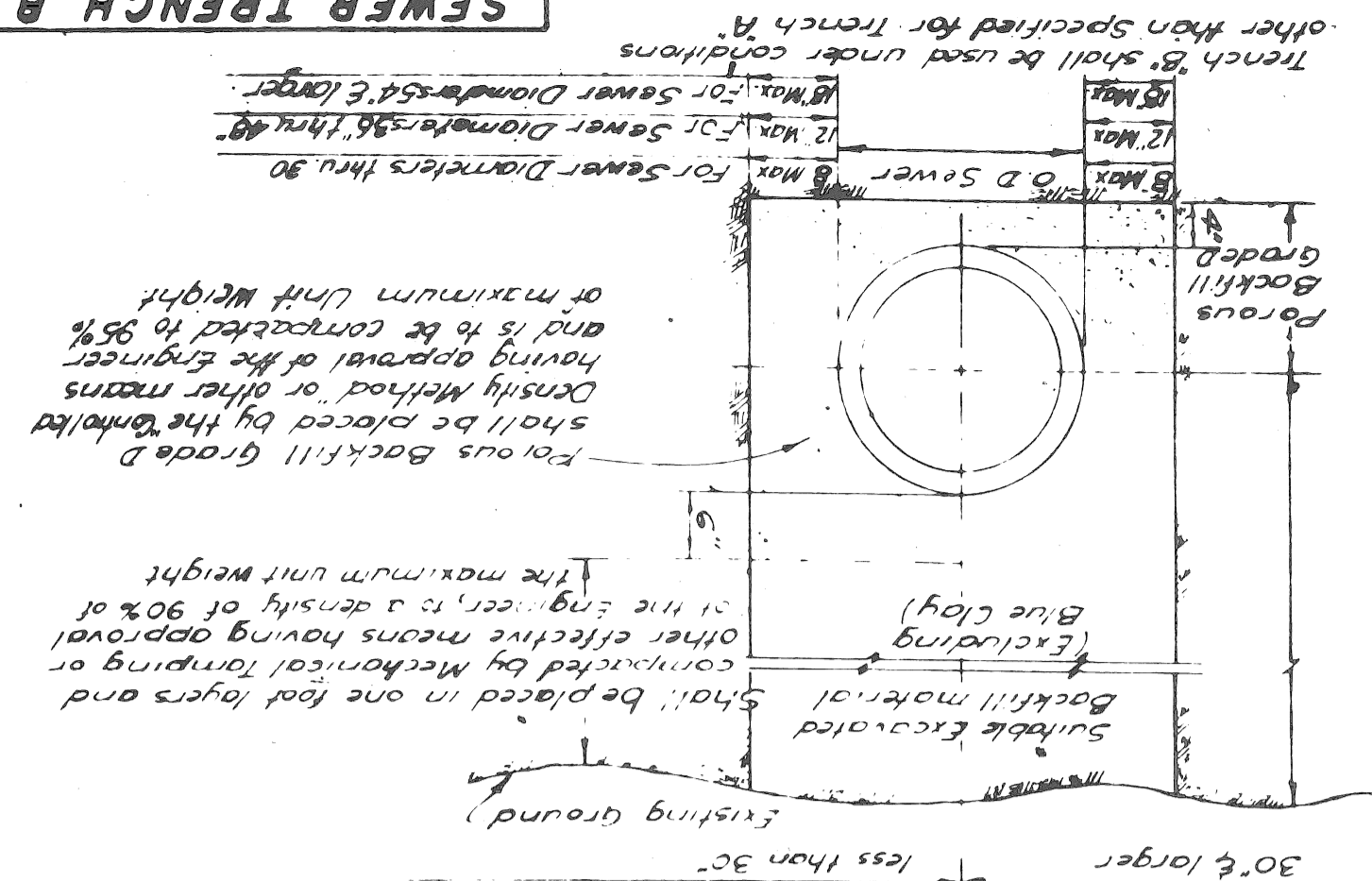
Having approval of the Engineer, porous backfill shall be placed by the controlled density method or other means and is to be compacted to 95% of maximum unit weight.



SEWER TRENCH "A"

Trench 'A' shall be used under road surfaces, pavements, sidewalks, curbs, aggregate & raised drives and where the edge of trench is within 3 feet of the pavement.

Backfill for sewer diameters less than 30"



SEWER TRENCH "B"

NOTE: The minimum depth of cover above the invert shall be 1 foot exclusive of pavement. During construction the contractor shall not operate any heavy equipment on existing ground and is to be used where the invert is above the existing ground. The minimum depth of cover shall not be less than 30" for sewer diameters less than 30" and 15" for sewer diameters 36" thru 48".

SEVEN MILE ROAD - EVERGREEN AVENUE CITY OF DETROIT QUANTITIES (As Constructed)

SEVEN MILE ROAD - EVERGREEN AVENUE CITY OF DETROIT QUANTITIES

QUANTITIES SEVEN MILE - EVERGREEN

11/13/34

23 OF 42

DATE 11-78 HISTORY CHECKED ENTERED ON PLANS BY DATE DATE DATE CHECKED BY DATE DATE

PLANNING ESTIMATE BY

SHEET NOS.	CITY OF DETROIT TOTALS	UNITS	TYPICAL CROSS SECTIONS	7 MILE ROAD PLAN	EVERGREEN PLAN	7 MILE ROAD REMOVAL	EVERGREEN REMOVAL	7 MILE ROAD UTILITIES	EVERGREEN UTILITIES	FIRE HYDRANTS	CONTRACT TOTALS	UNITS
------------	------------------------	-------	------------------------	------------------	----------------	---------------------	-------------------	-----------------------	---------------------	---------------	-----------------	-------

ROADWAYS & MISCELLANEOUS

602	5.4	Removing Pavement	131	471	122	827	77	159	5.4	949	L.F.	Removing curb
949	5.4	Removing curb	122	827	82	82	2	159	5.4	949	L.F.	Removing curb
2	5.4	Abolishing Drainage Structures	2	82	82	2	2	159	5.4	949	L.F.	Removing curb
0	5.4	Removing Old Pavement (Patching)	0	82	82	2	2	159	5.4	949	L.F.	Removing curb
96	5.4	Removing Bituminous Surface	52	44	204	222	222	204	5.4	300	3.4	300
482	5.4	Removing Bituminous Surface - Planer Method	77	405	222	222	222	204	5.4	704	3.4	704
356	5.4	Earth Excavation	356	356	48	48	48	48	5.4	1004	3.4	1004
25	5.4	Subgrade Undercutting, Type II	25	373	373	373	373	373	5.4	373	3.4	373
0	5.4	Special Subbase	0	1557	1557	1557	1557	1557	5.4	2354	3.4	2354
1203	L.F.	30'ed longitudinal plane of Weakness Joints	257	221	164	156	156	156	5.4	421	Tons	421
257	Tons	Bituminous Conc. Weaving Course (31A) Type M	257	221	164	156	156	156	5.4	421	Tons	421
75	Tons	Bituminous Conc. Leveling Course (25R)	75	66	47	47	47	47	5.4	122	Tons	122
141	3.4	Bituminous Aggregate Shoulders	3	141	0	0	0	0	5.4	141	3.4	141
86	5.4	Concrete Pav't. Nonreinft.-8"	30	56	208	208	208	208	5.4	294	3.4	294
114	5.4	Concrete Pav't. Nonreinft.-9"	114	114	1	1	1	1	5.4	114	3.4	114
4	Tons	Cement	4	4	1	1	1	1	5.4	5	Tons	5
0	5.4	Conc. Pav't. Patching, Type N3, 9" Nonreinft.	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	12" Sewer C-76-IV, Trench Detail '9"	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	12" Sewer Tap	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Reconstructing structures	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Catch Basin "B"	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Catch Basin "A"	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Standard Inlet	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Frome & Cover "A"	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Cleaning exist storm drainage structures	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Adjusting structures	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	12" Sewer Traps	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	4" Conc. Sidewalk	0	82	82	82	82	82	5.4	82	L.F.	82
372	5.4	6" Conc. Sidewalk	273	99	917	917	917	917	5.4	1289	3.4	1289
0	5.4	Sidewalk Ramp, Type 1	0	82	82	82	82	82	5.4	82	3.4	82
0	5.4	Sidewalk Ramp, Type 3	0	82	82	82	82	82	5.4	82	3.4	82
11	5.4	Conditioning exist Pav't.	11	11	0	0	0	0	5.4	580	3.4	580
1	5.4	Lighted Arrow Type A, furnished	1	1	1	1	1	1	5.4	2	L.F.	2
1	5.4	Lighted Arrow Type B, Operated	1	1	1	1	1	1	5.4	2	L.F.	2
3	5.4	Barricade Type II, Lighted-furnished	3	42	42	42	42	42	5.4	5	L.F.	5
42	5.4	Barricade Type II (Drums) Lighted-furnished	42	42	42	42	42	42	5.4	123	L.F.	123
42	5.4	Barricade Type II (Drums) Lighted-Operated	42	42	42	42	42	42	5.4	123	L.F.	123
0	5.4	Drum Guide Rail	0	82	82	82	82	82	5.4	82	L.F.	82
377	5.4	Class "A" Sodding	62	315	191	191	191	191	5.4	568	3.4	568
0	5.4	Water	0	82	82	82	82	82	5.4	82	L.F.	82
377	5.4	Topsoil Surface - 3 in	62	315	191	191	191	191	5.4	568	3.4	568
0	5.4	6" Fire Hydrant (Incl. 6" Gate Valve, Gate Box, & Related Piping)	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Catch Basin "A" with 8" Cast Iron Trap (W.C.R.C.)	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Minor Traffic Devices	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	Mobilization	0	82	82	82	82	82	5.4	82	L.F.	82
0	5.4	On the Job Training	0	82	82	82	82	82	5.4	82	L.F.	82
0.5	Lump Sum		0.5	0.5	0.5	0.5	0.5	0.5	5.4	1.00	Lump Sum	1.00
0.05	Lump Sum		0.05	0.05	0.05	0.05	0.05	0.05	5.4	0.10	Lump Sum	0.10