

EAST DRY CREEK INTERCEPTOR SEWER

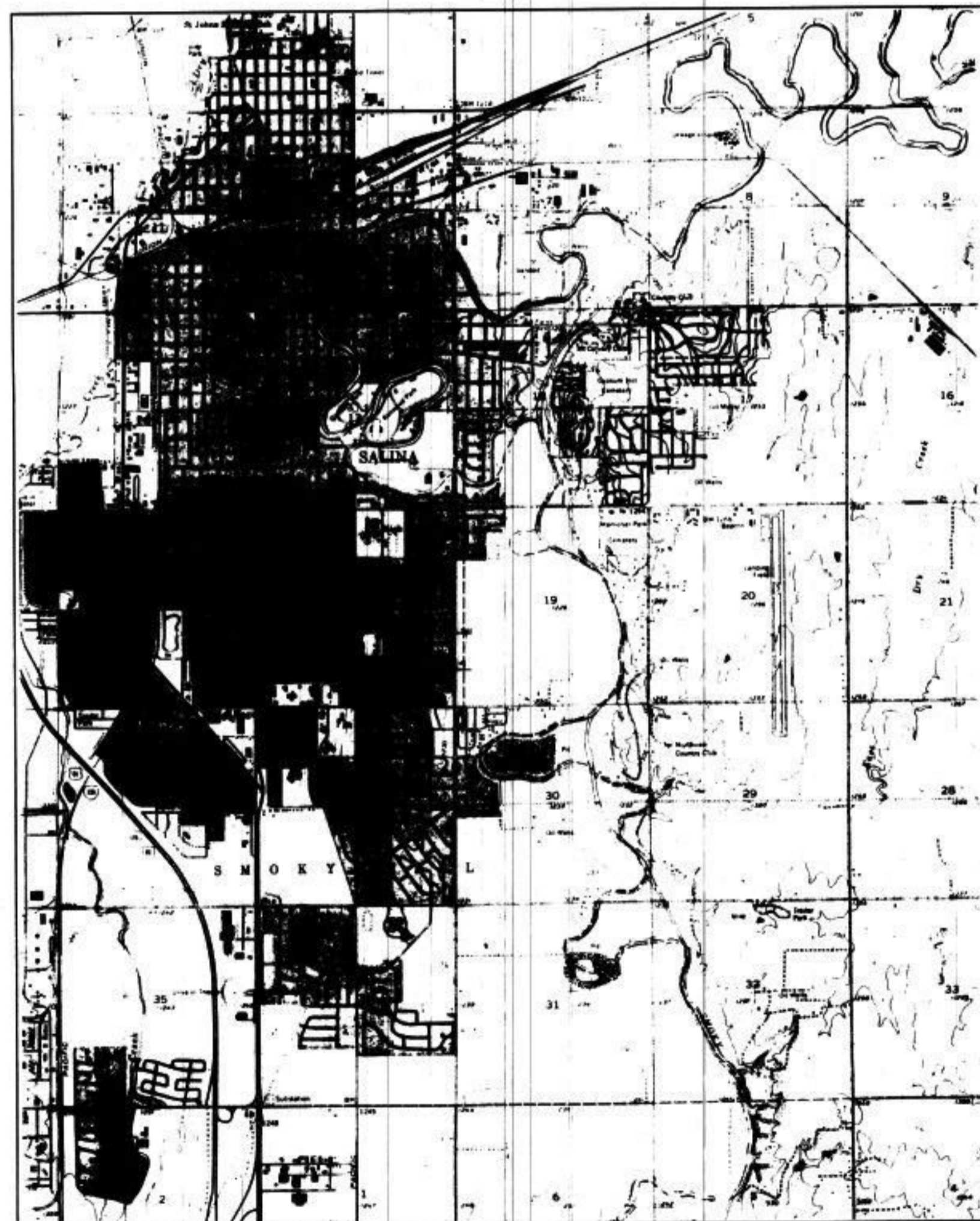
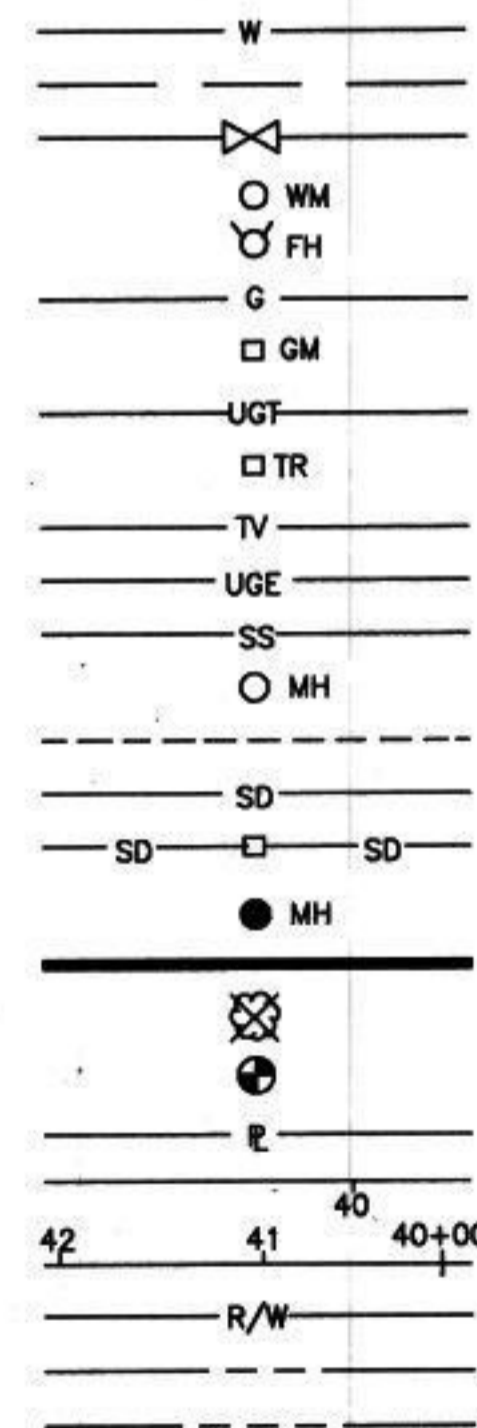
CITY OF SALINA

SALINA, KANSAS

CITY PROJECT NO. 91-848

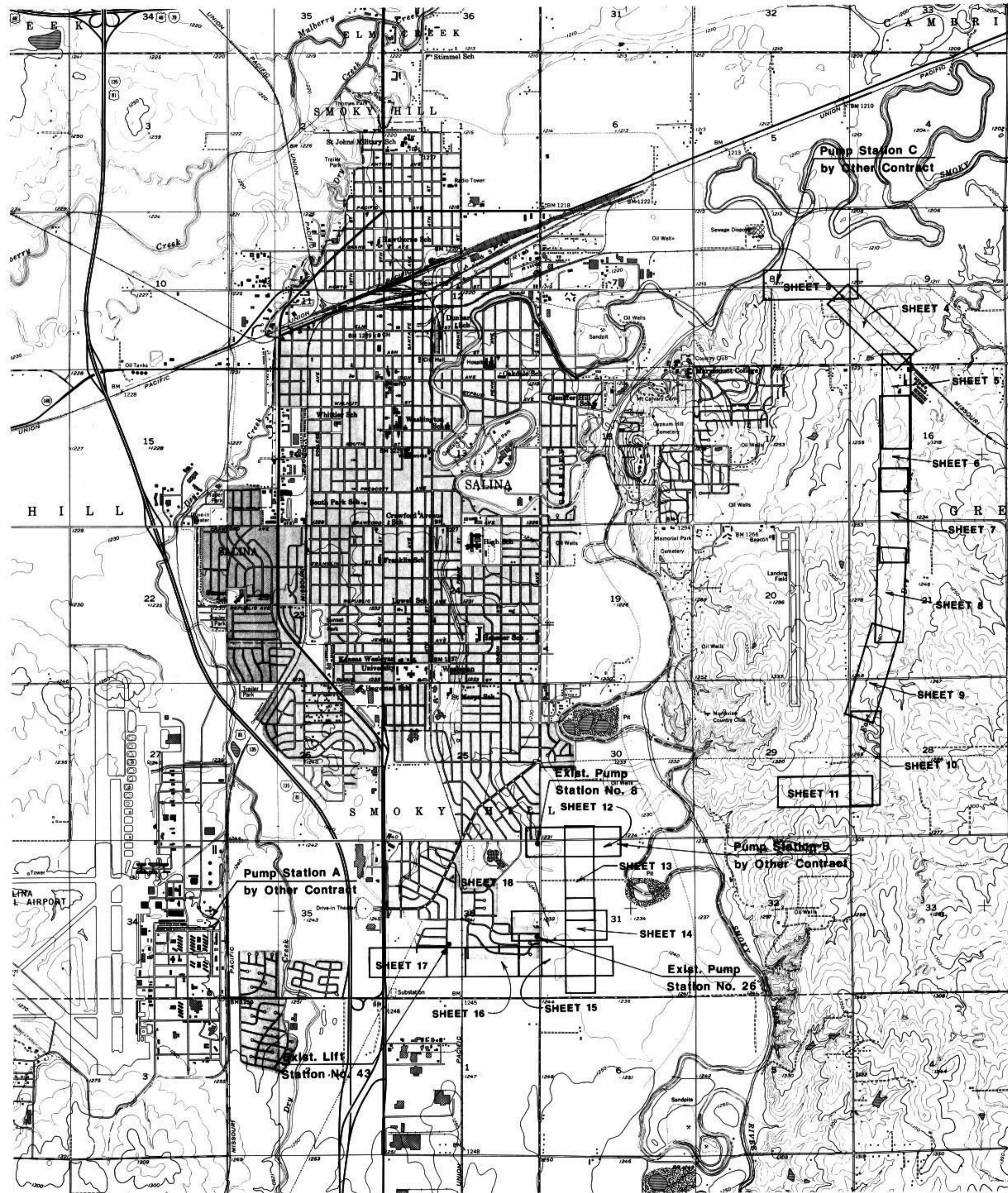
LEGEND

EXISTING WATER LINE
 EXISTING GROUND LINE
 EXISTING WATER VALVE
 EXISTING WATER METER
 EXISTING FIRE HYDRANT
 EXISTING GAS LINE
 EXISTING GAS METER
 EXIST. BURIED TELEPHONE CABLE
 EXISTING TELEPHONE RISER
 EXIST. BURIED TELEVISION CABLE
 EXISTING UNDERGROUND ELECTRIC
 EXISTING SANITARY SEWER
 EXISTING MANHOLE
 EXISTING DRAINAGE CULVERT
 EXISTING STORM SEWER
 EXISTING STORM SEWER INLET
 PROPOSED MANHOLE
 PROPOSED SANITARY SEWER
 TREE REMOVAL
 BENCH MARK
 PROPERTY LINE
 SURVEY BASELINE
 SEWER LINE BASELINE
 RIGHT OF WAY
 TEMPORARY EASEMENT
 PERMANENT EASEMENT



INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	GENERAL PLAN & NOTES
3-11	NORTH SEGMENT - PLAN & PROFILE
12-18	SOUTH SEGMENT - PLAN & PROFILE
19	SITE PLAN BRANCH LINE "A"
20	SITE PLAN BRANCH LINE "B" & BRANCH LINE "C"
21	MISCELLANEOUS DETAILS
22-23	SANITARY SEWER STANDARD DETAILS - CITY
24	RAMP DETAILS - CITY
25	PAVEMENT REINFORCING AND CONSTRUCTION JOINTS STANDARD DETAILS - CITY



KEY MAP

EAST DRY CREEK INTERCEPTOR SEWER PROJECT

Project description:

The entire project consists of three separate construction projects. The projects include the following:

1. Gravity Sewers - North Section and South Section
2. New Pump Stations A, B and C
3. Force Mains serving new Pump Stations A, B and C

New Pump Station A is located at the existing wastewater treatment plant in the vicinity of the Salina Municipal Airport. Pump Station A will pump wastewater through a force main to MH No. 74. The gravity sewer between MH No. 74 and MH No. 51 is a part of this construction project (South Section). The south section also receives wastewater from existing Pump Station Nos. 8, 25 and 43. The abandonment of these three pump stations and the construction of the branch sewers between the wet wells at these pump stations and the interceptor sewer is also a part of this contract.

The gravity sewer from MH NO. 51 to Pump Station B will be constructed under a separate contract. Pump Station B will pump wastewater through a force main to MH No. 50. Wastewater will flow through the interceptor sewer from MH No. 50 to MH NO. 1 and is part of this construction contract (North Section). The gravity sewer between MH No. 1 and Pump Station C will be constructed as part of a separate contract.

Construction Sequence:

Pump Station B must be complete and ready for operation before existing Pump Station Nos. 8, 26 and 43 are abandoned and before any wastewater is discharged into any of the branch sewers or the South Section of the Interceptor Sewer.

Pump Station C must be in operation and accepted by the City of Salina before Pump Station B is placed in service and any wastewater is discharged into the North Section of the Interceptor Sewer. Start-up and initial operation of Pump Station C is anticipated to take approximately 30 days after completion.

When Pump Station C has been accepted by the City of Salina, all the remaining work which is part of this construction contract can be completed. That includes the following:

- Direct wastewater into Branch Line A. Abandon Pump Station No. 8
- Direct wastewater into Branch Line B. Abandon Pump Station No. 26.
- Direct wastewater into Branch Line C. Abandon Pump Station No. 43.

The City of Salina will salvage part of the equipment and/or materials from the pump stations after wastewater is directed into the branch sewers. The pump stations will be abandoned in place as directed in the specifications when salvage operations are complete.

Scale: 1" = 2000'

EAST DRY CREEK INTERCEPTOR SEWER SALINA, KANSAS	
GENERAL PLAN & NOTES	
BWB BUCHER, WILLIS & RATLIFF ENGINEERS • PLANNERS • ARCHITECTS	
SALINA	KANSAS CITY
MADE <i>DMB</i> DATE <i>4-22-92</i> TRACED <i>JLS</i> DATE <i>4-22-92</i>	SCALE <i>As Noted</i>
CHECKED <i>DMB</i> DATE <i>5-8-92</i>	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
BY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
BY	
NOTE BOOK	
NO.	



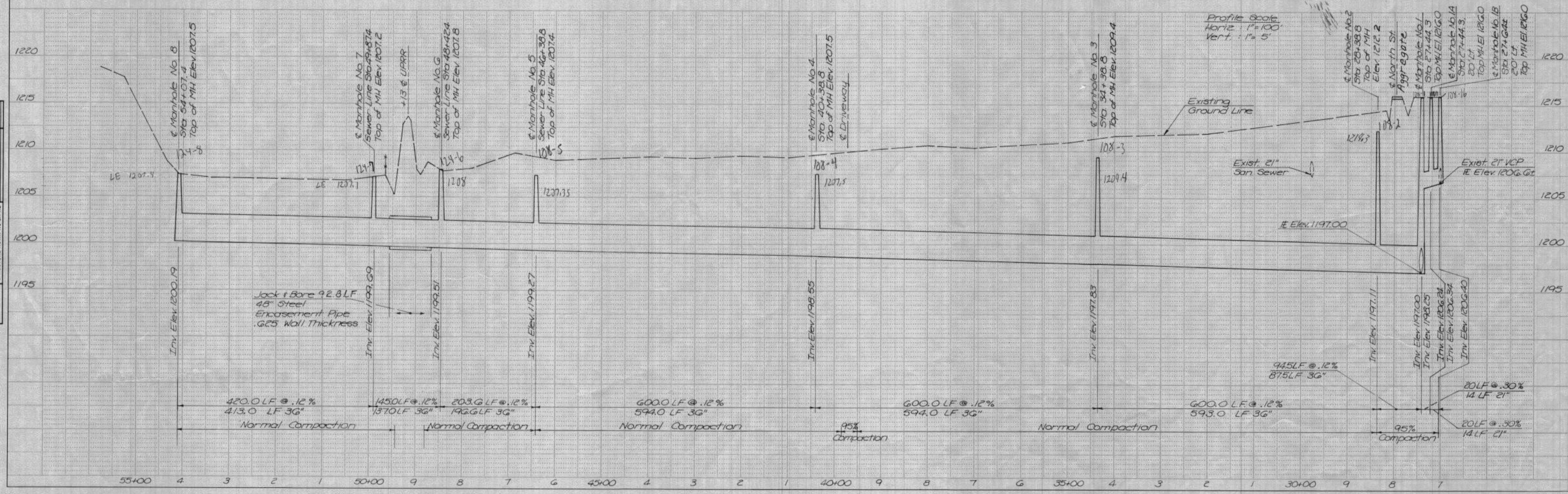
PI 36A - Sta. 49+97.43 - Hub + Tack
 1. NW to Cut in Guy Anchor 21.29'
 2. SW to Spike in Elm Tree 45.99'
 3. S to Spike in Elm Tree 63.70'

PI 37A - Sta. 47+82.13 - Hub + Tack
 1. SE to Spike in Elm Tree 22.55'
 2. E to Spike in Elm Tree 21.01'
 3. NE to Spike in Elm Tree 23.25'

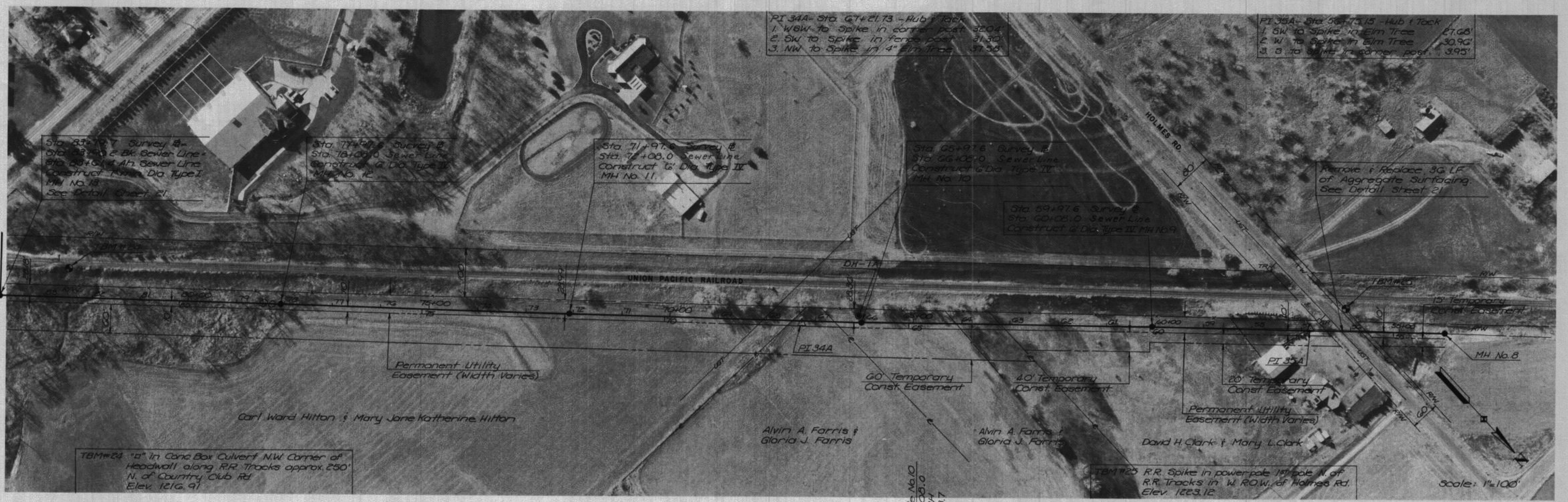
TBM*2G RR Spike in power pole, 1" pole W of RR Tracks in R.O.W. of North St. Elev. 1210.37

TBM*27 RR Spike in power pole of SE Corner of Eastborough + North Sts. Elev. 1218.60

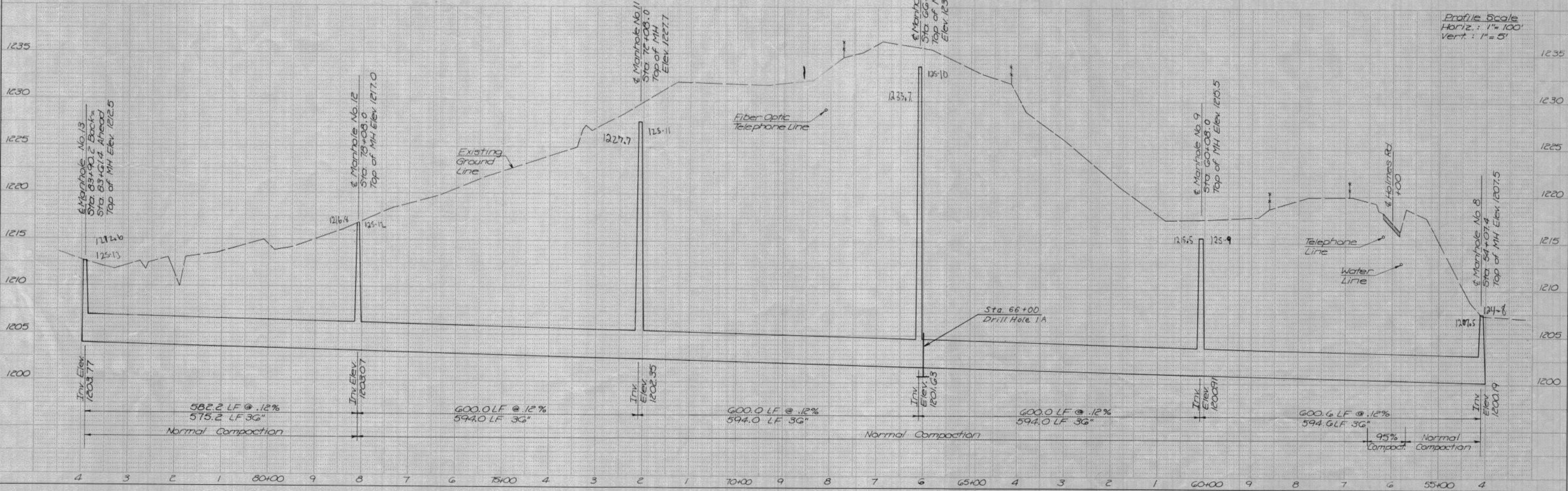
Scale: 1" = 100'



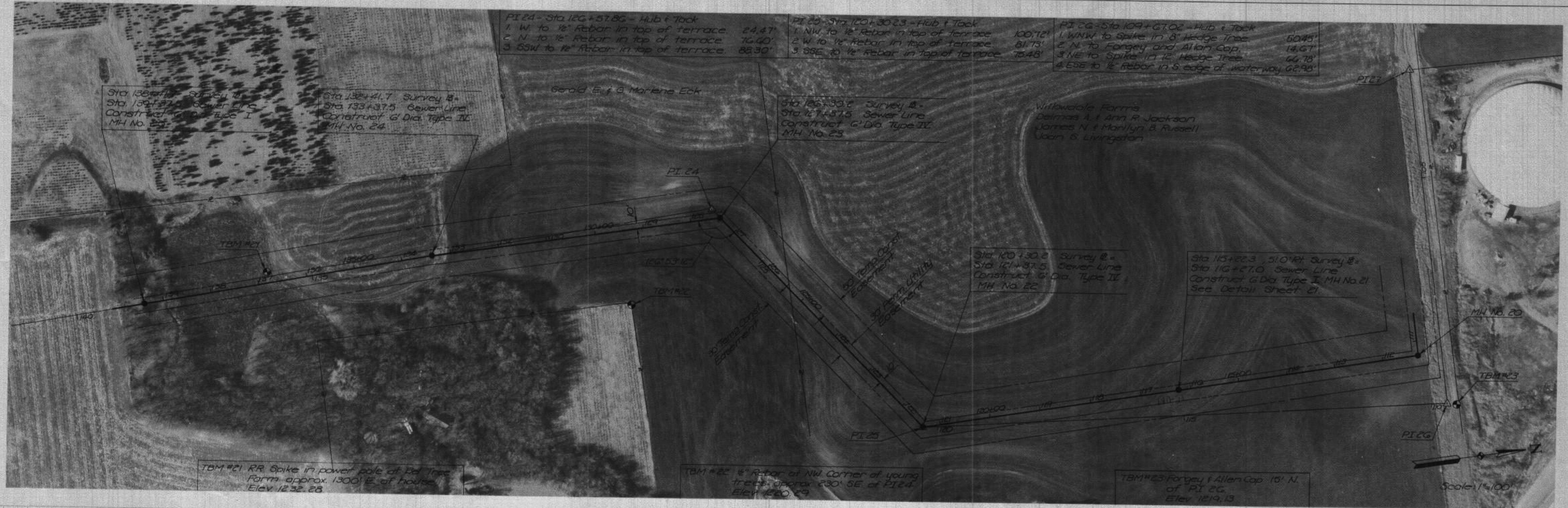
PLAN	DATE
SURVEYED	BY
PLOTTED	
CHECKED	
BY	
NO. OF MAIN CHECKED	
NO.	



PROFILE	DATE
SURVEYED	BY
PLOTTED	
CHECKED	
BY	
NO. OF MAIN CHECKED	
NO.	



DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
NO.	
PLAN	
NOTE BOOK	
NO.	



DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
NO.	
PROFILE	
NOTE BOOK	
NO.	



PLAN	DATE
BY	
SURVEYED	
PLOTTED	
NOTED	
RT OF WAY CHECKED	
NO	



PROFILE	DATE
BY	
SURVEYED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHECKED	
NO	



DATE	
BY	
SURVEYED	
PLOTTED	
FLIGHTMAN CHECKED	
BY	
NOTE BOOK	
NO.	
PLAN	



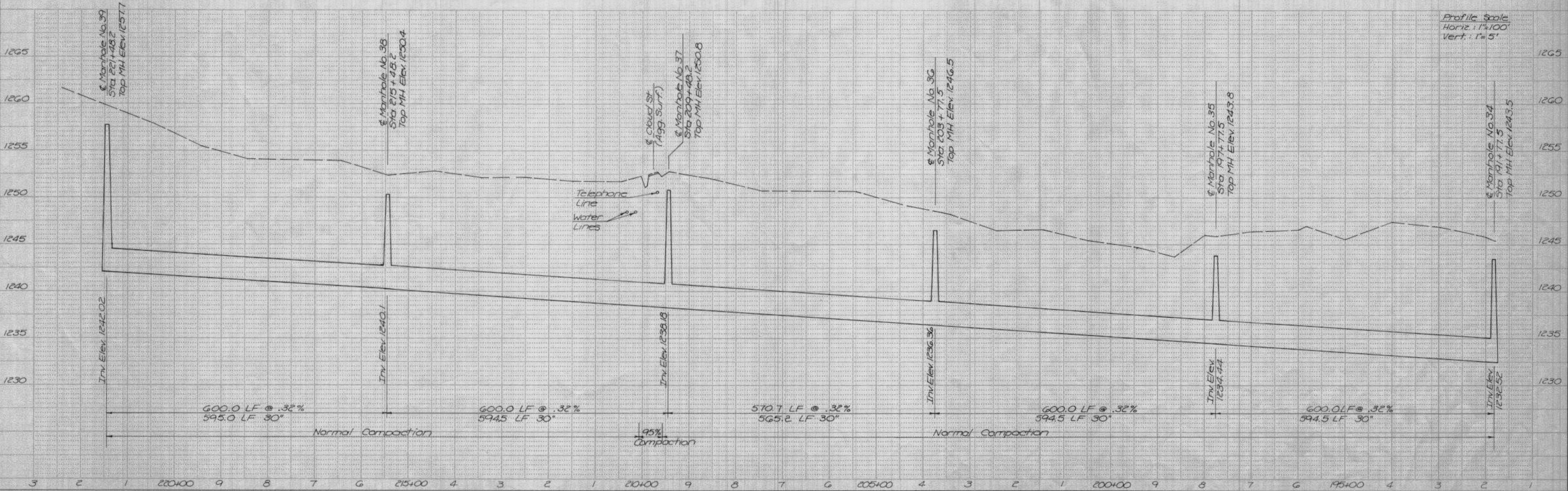
DATE	
BY	
SURVEYED	
PLOTTED	
FLIGHTMAN CHECKED	
BY	
NOTE BOOK	
NO.	
PROFILE	



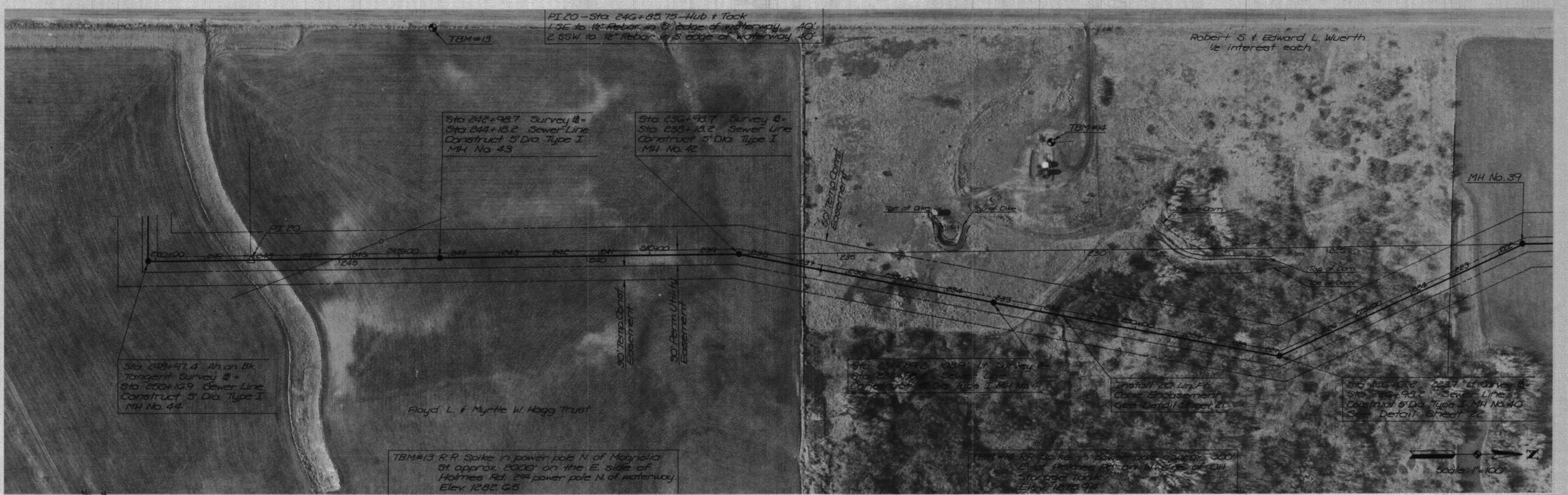
PLAN	DATE
SURVEYED	BY
PLOTTED	BY
NOTE BOOK NO.	BY
BY	DATE



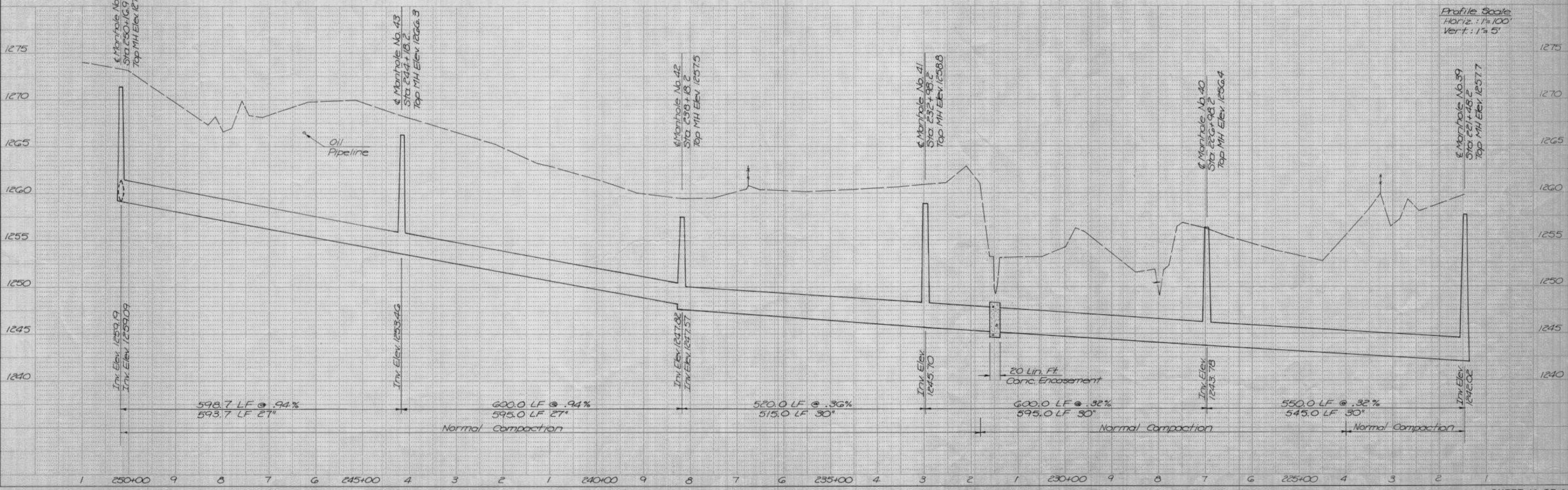
PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	BY
NOTE BOOK NO.	BY
STRUCTURE NOTATIONS CHKD	BY



PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO. OF SHEETS	
	NO. OF SHEETS CHECKED	
	BY	
	NO. OF SHEETS CHECKED	
	BY	



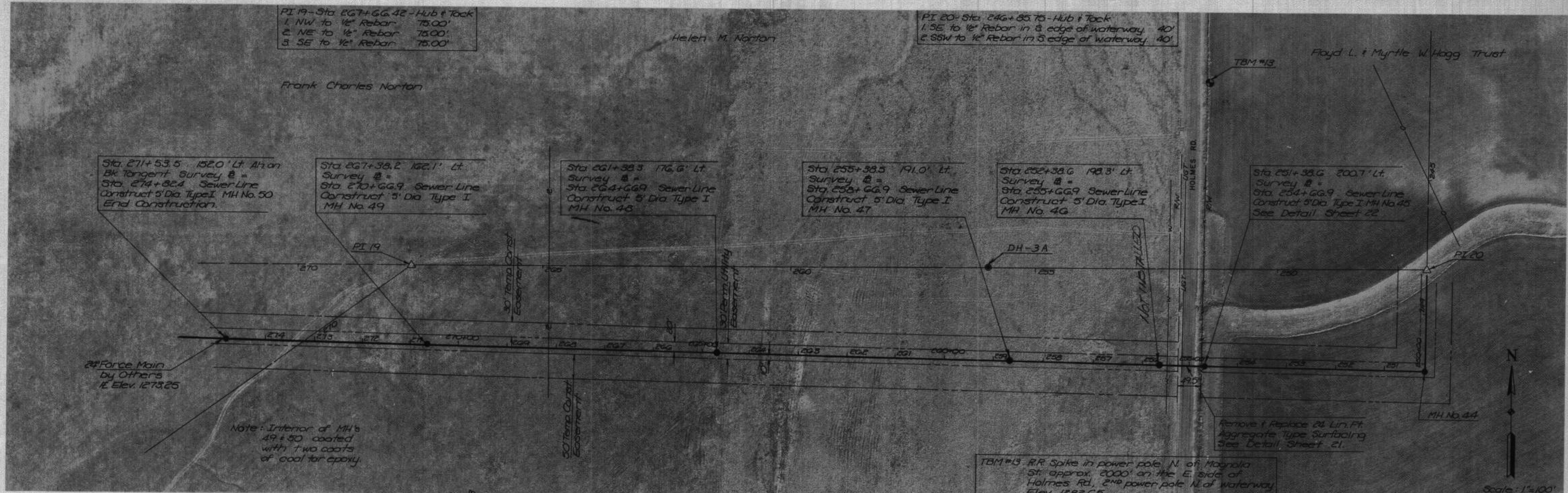
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO. OF SHEETS	
	NO. OF SHEETS CHECKED	
	BY	
	NO. OF SHEETS CHECKED	
	BY	



PLAN	DATE
SURVEYED	BY
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WHT CHECKED	
NO.	

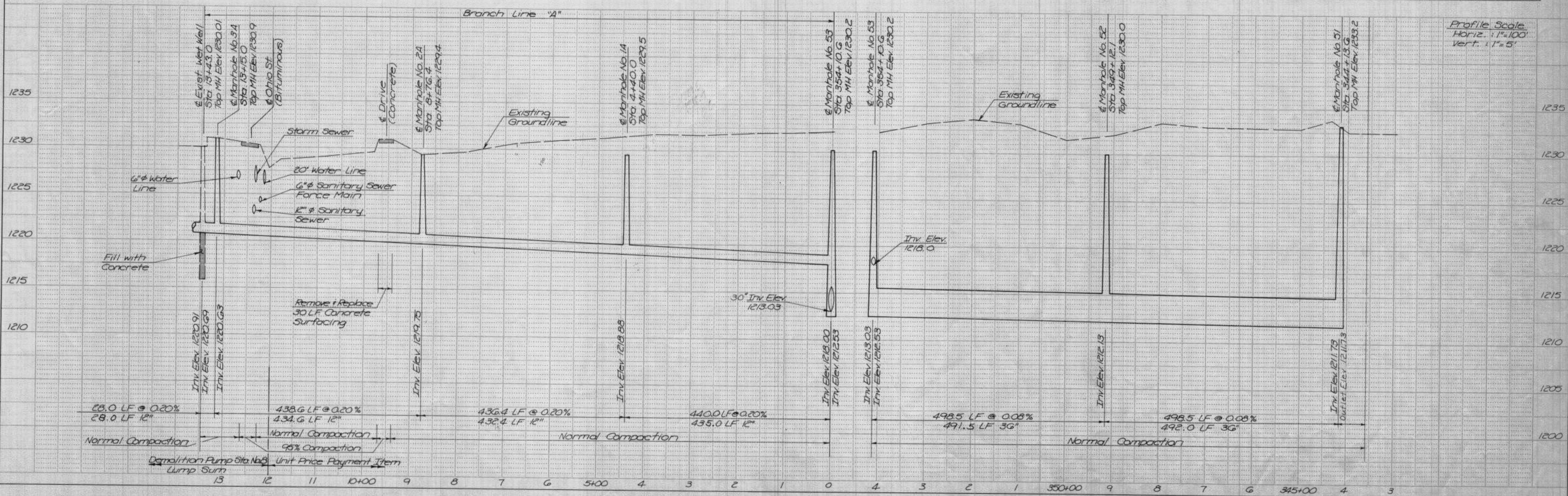
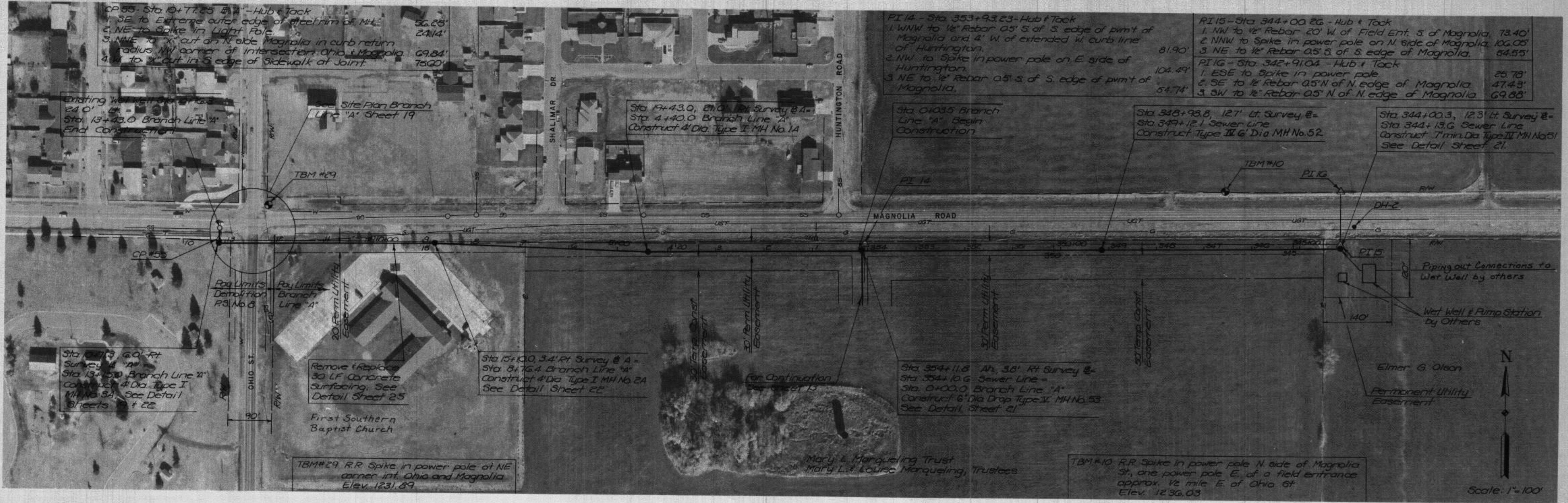
PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTING CHKD	
NO.	

TP 100.dwg



DATE	
BY	
SURVEYED	
PLANNED	
NOTE BOOK	
ALIGNMENT CHECKED	
RT OF WAY CHECKED	
NO	

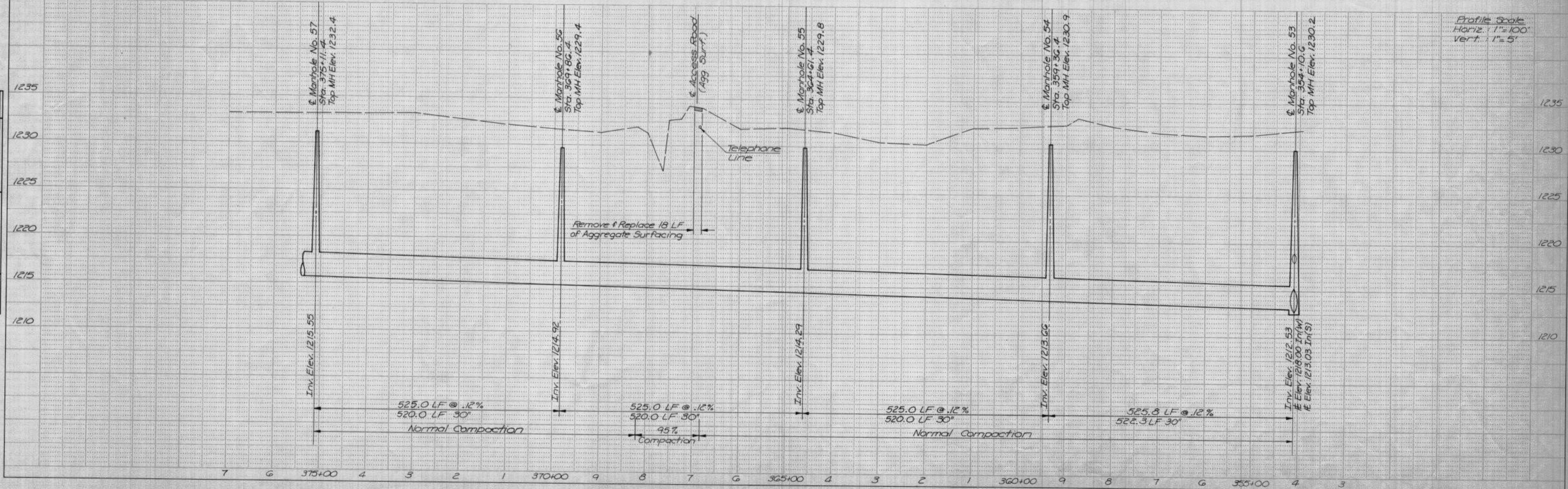
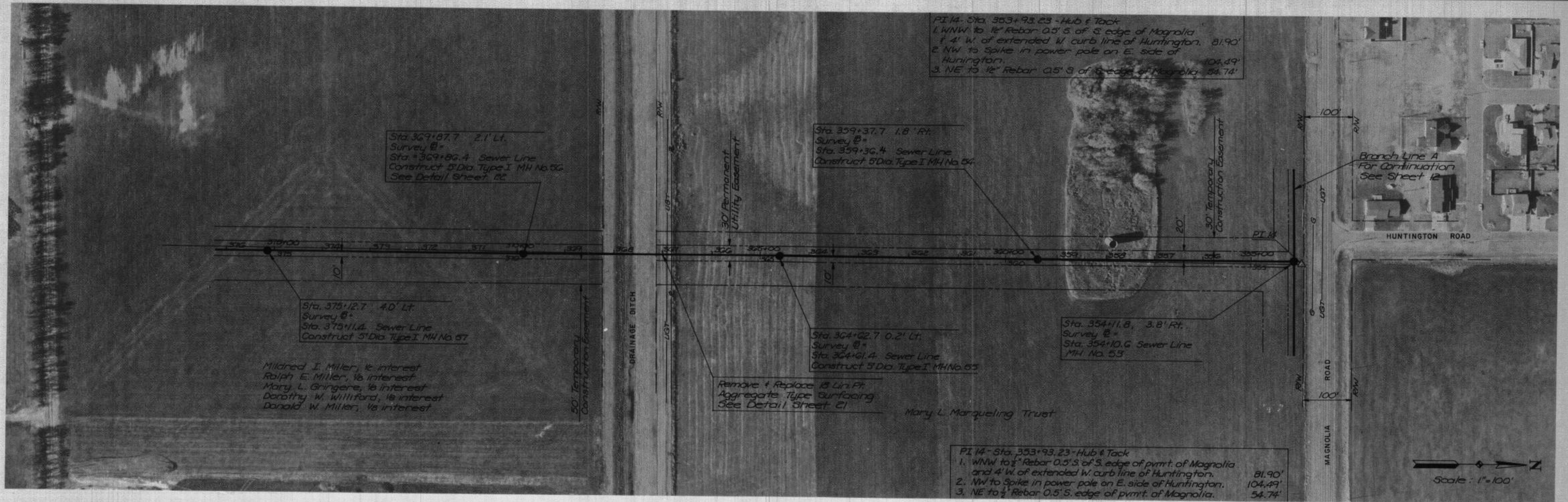
DATE	
BY	
SURVEYED	
PLANNED	
NOTE BOOK	
STRUCTURE NOTATIONS CHKD	
NO	



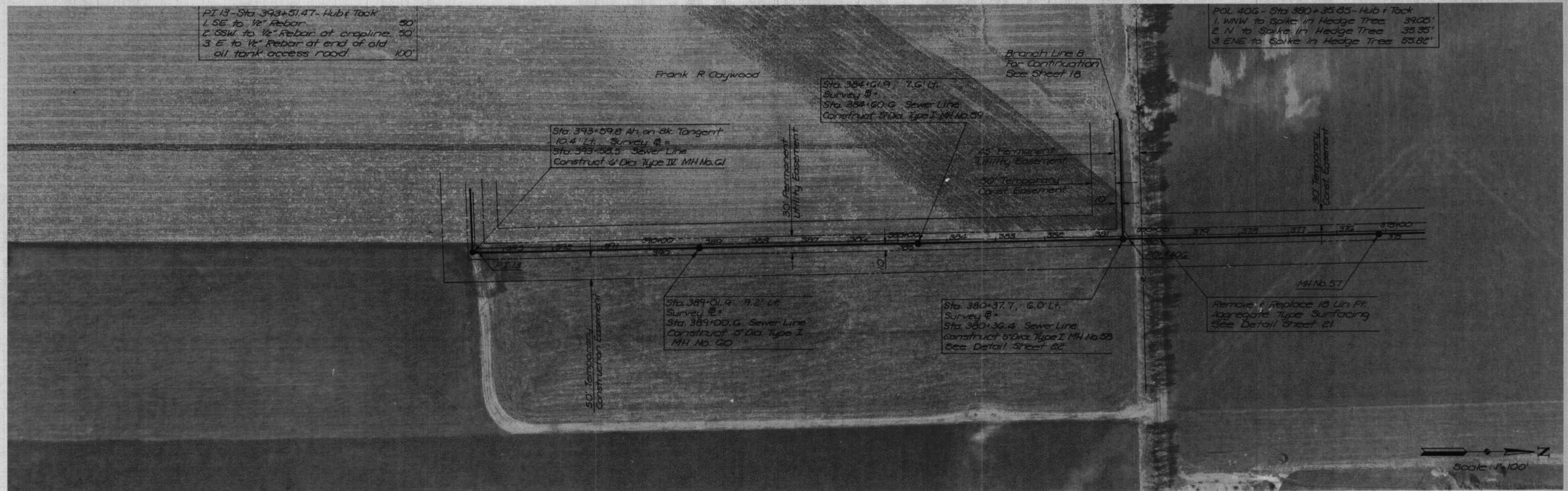
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	BY	
	NO. OF SHEETS CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	B.M. NOTED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

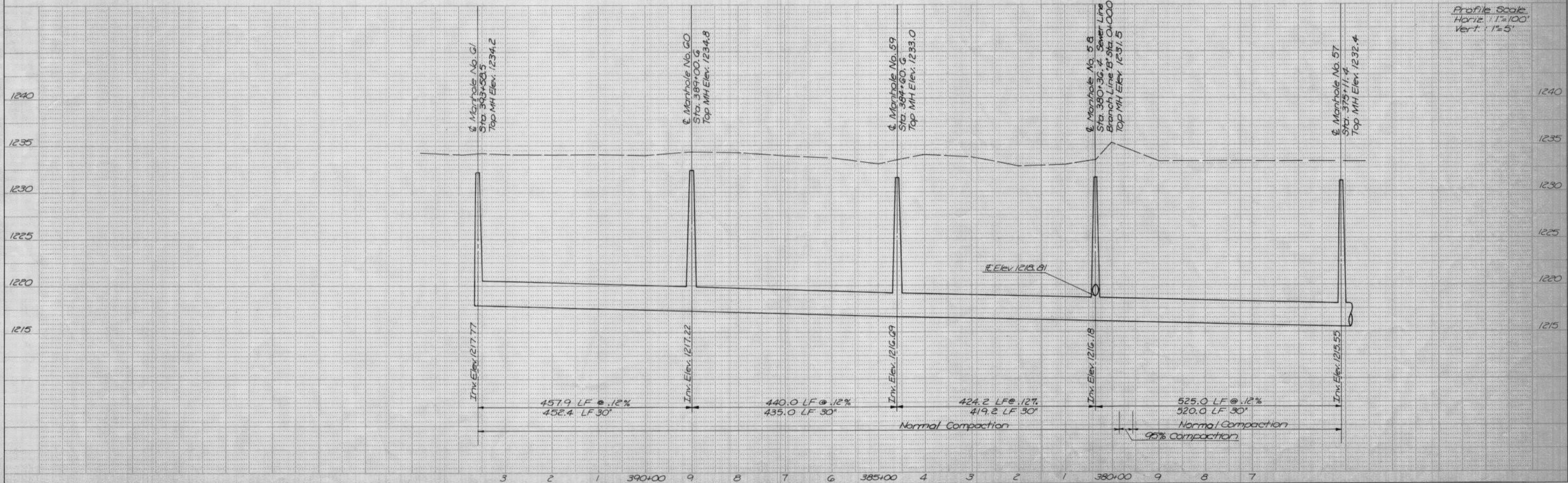
PP12.dwg



PLAN	SURVEYED	DATE
	ALIGNMENT CHECKED	BY
	RT OF WAY CHECKED	
	NOTE BOOK NO.	

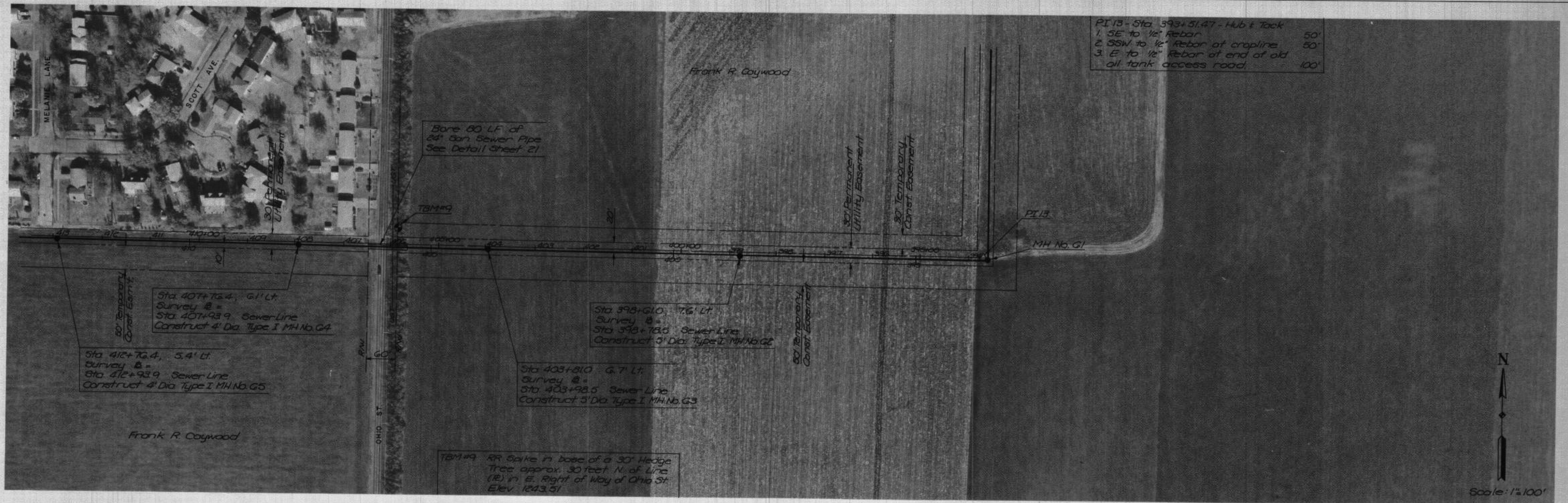


PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	B.M. NOTED	
	STRUCTURE NOTATIONS CHVD	
	NOTE BOOK NO.	

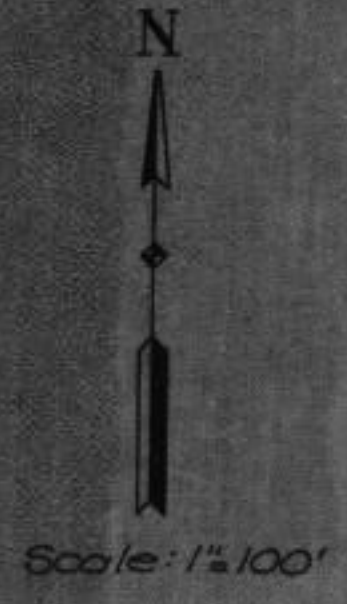


PP-14-1-13

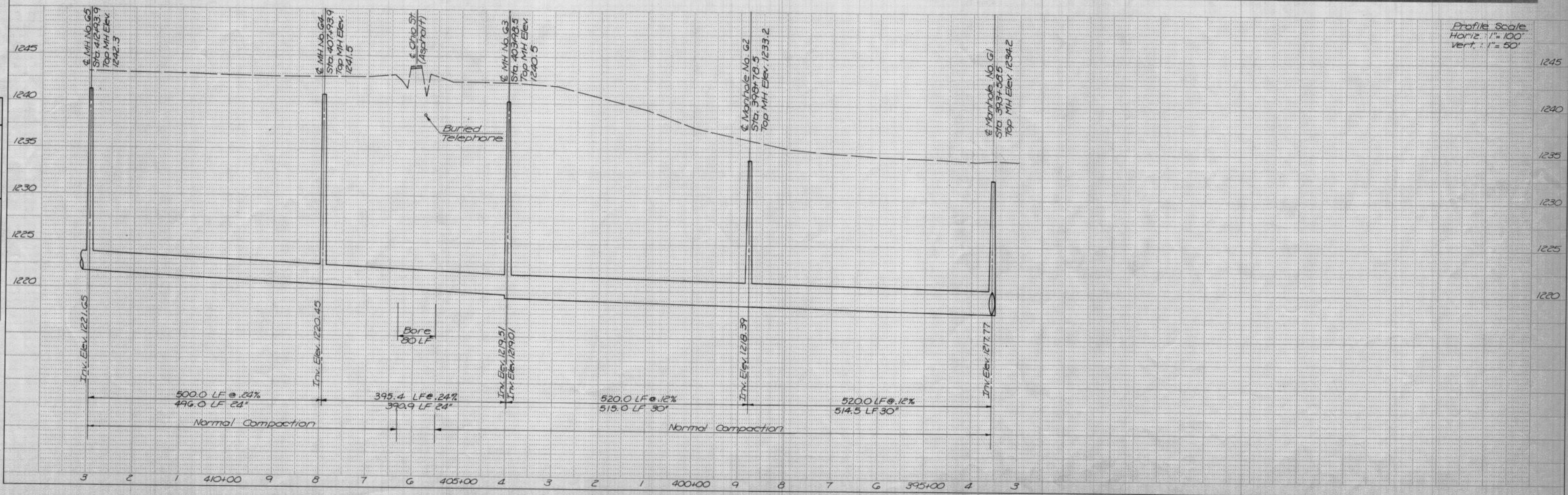
DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NO. OF SHEETS	
NO. OF SHEETS USED	
NOTE BOOK NO.	
PLAN	



PI 13 - Sta 393+51.47 - Hub & Tack
 1. SE to 1/2" Rebar 50'
 2. SSW to 1/2" Rebar at cropline 50'
 3. E to 1/2" Rebar at end of old all tank access road 100'



DATE	
BY	
SURVEYED	
PROFILES	
GRADES CHECKED	
S. M. NOTED	
STRUCTURE NOTING CHK'D	
NOTE BOOK NO.	
PROFILE	



Profile Scale:
 Horiz. 1" = 100'
 Vert. 1" = 50'

PP15.dwg

PLAN	DATE
SURVEYED	BY
PLOTTED	DATE
ALIGNMENT CHECKED	
BY	
NO. OF MAN CHECKED	
NO.	



PROFILE	DATE
SURVEYED	BY
NOTED	DATE
STRUCTURE NOTATIONS CHECKED	
NO.	

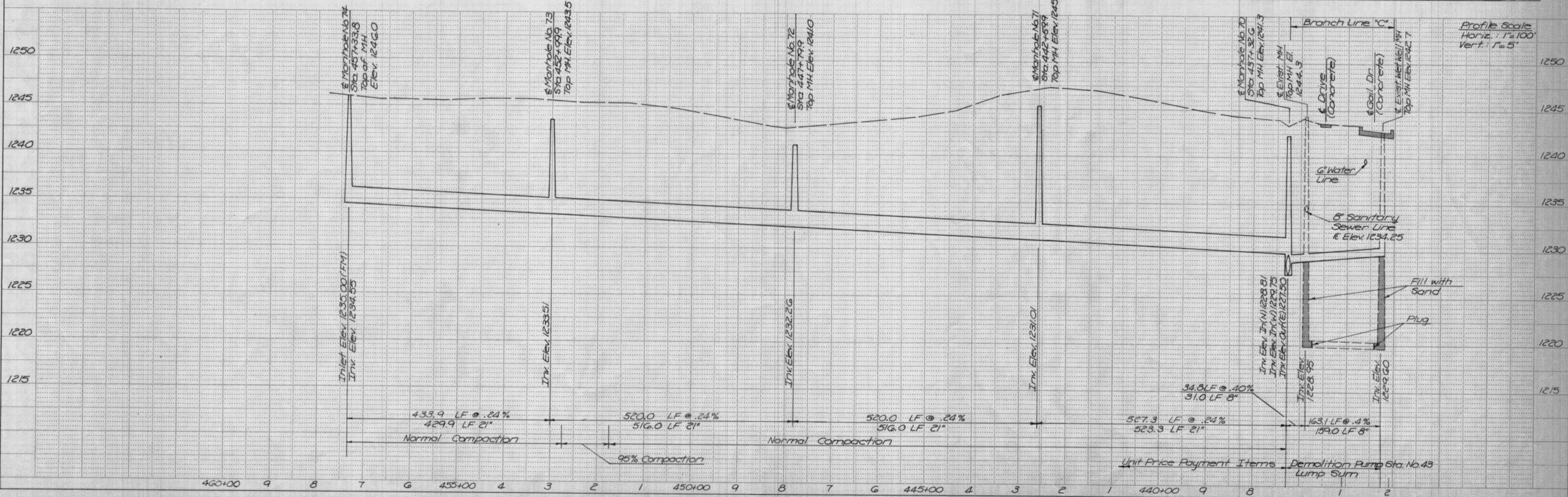


PP 16. d.w.g

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO.	
PLAN	

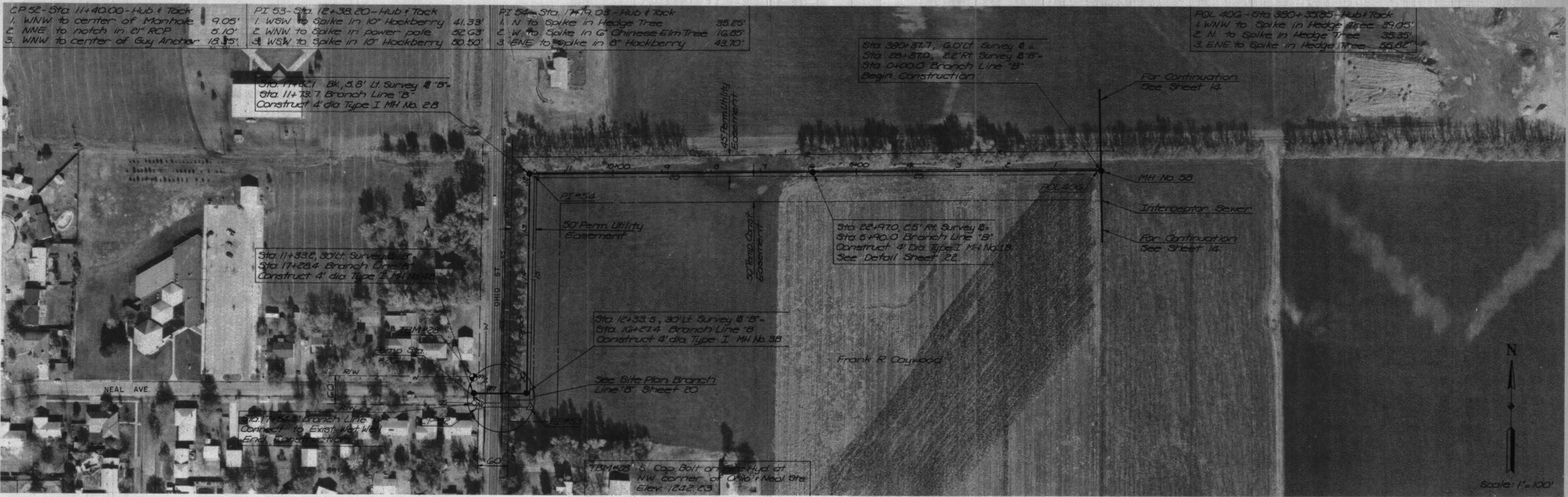


DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO.	
PROFILE	

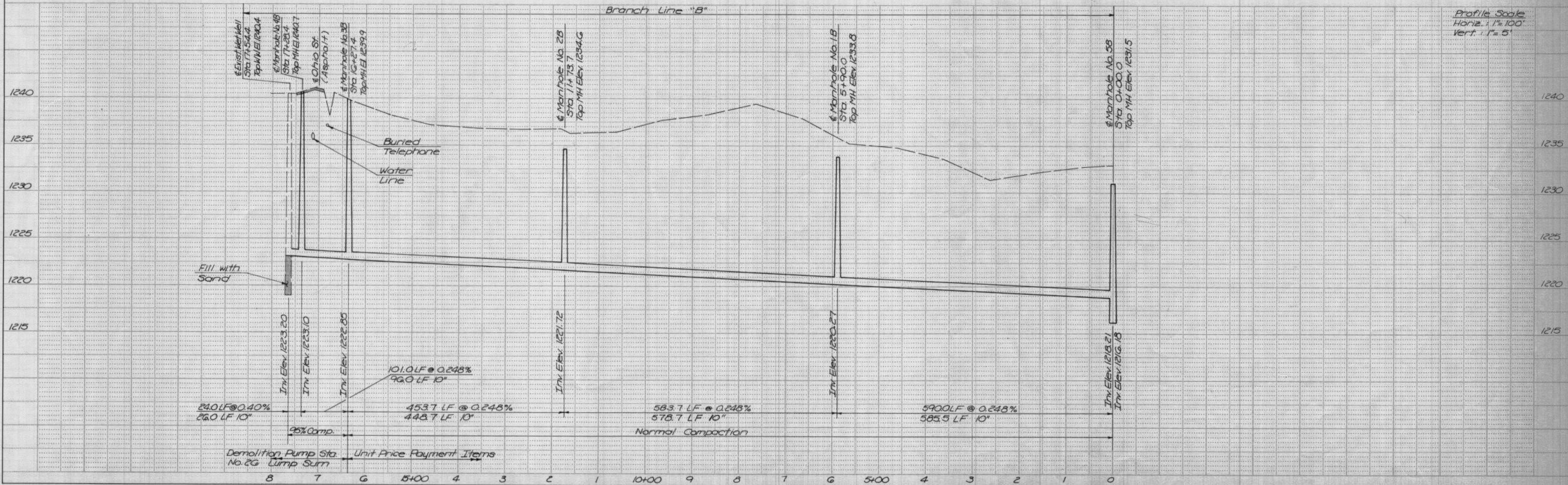


PF17 dwg

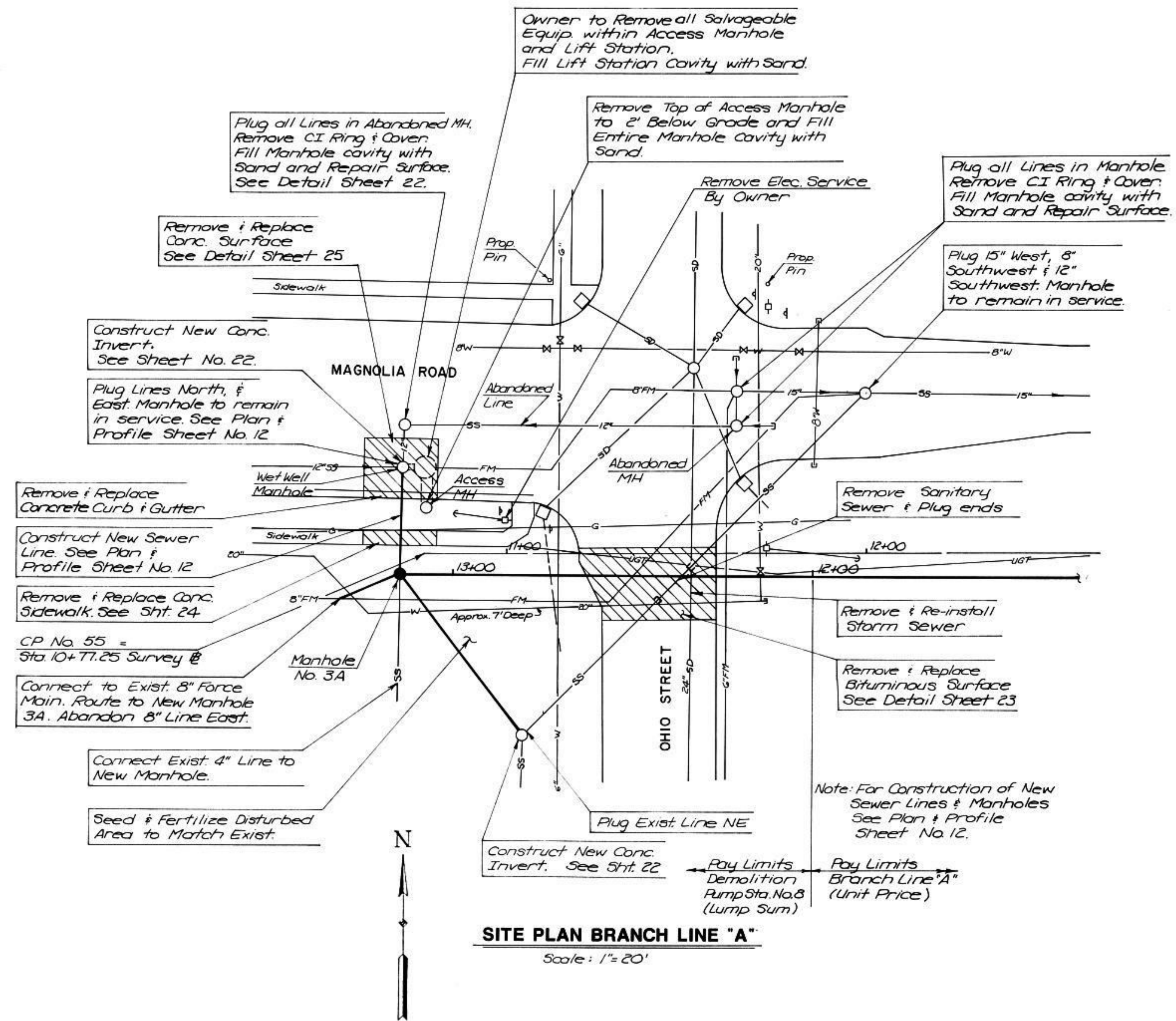
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	BY	
	NO. OF MAT CHECKED	
	NO.	



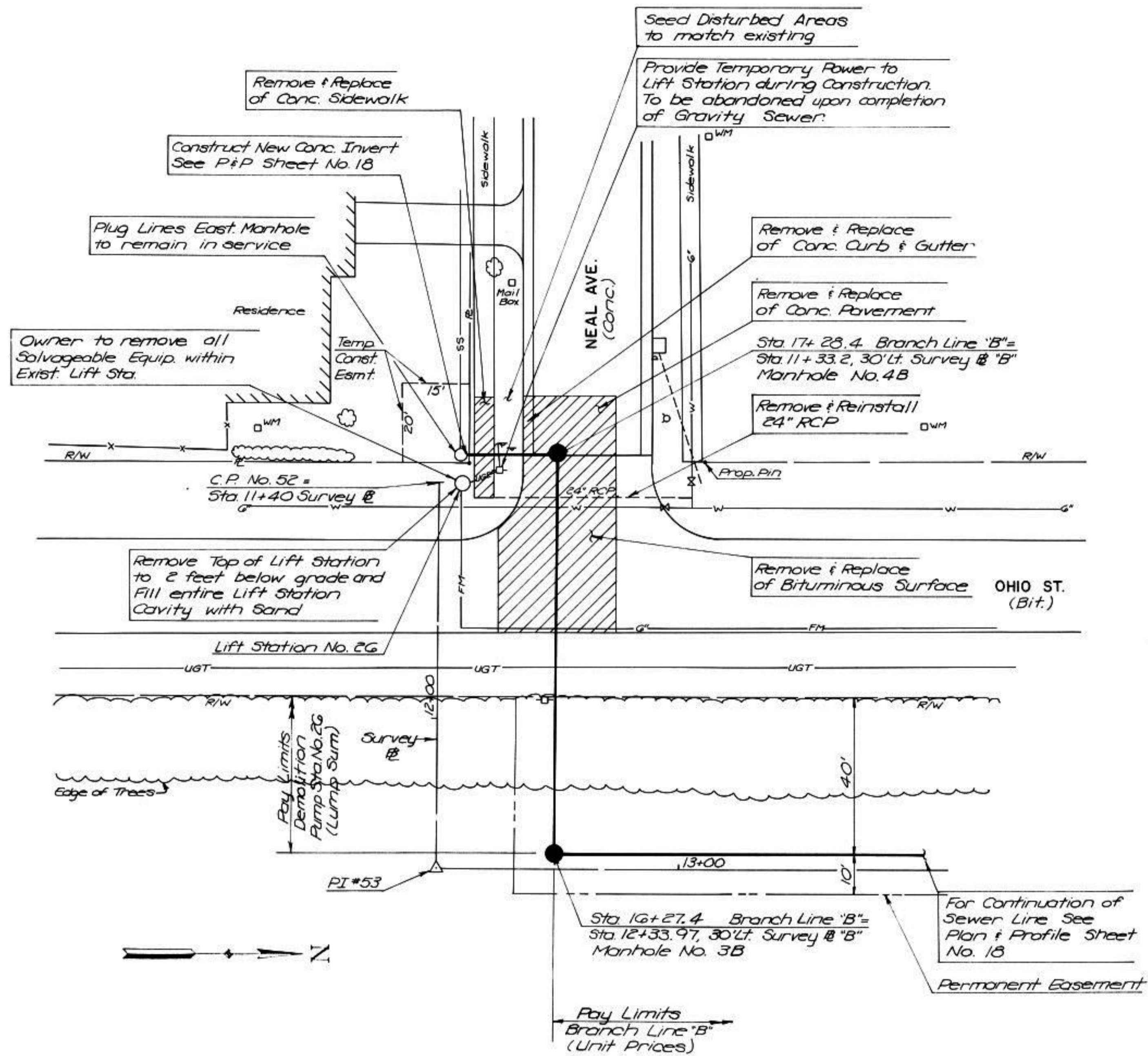
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	BY	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



pp13.dwg

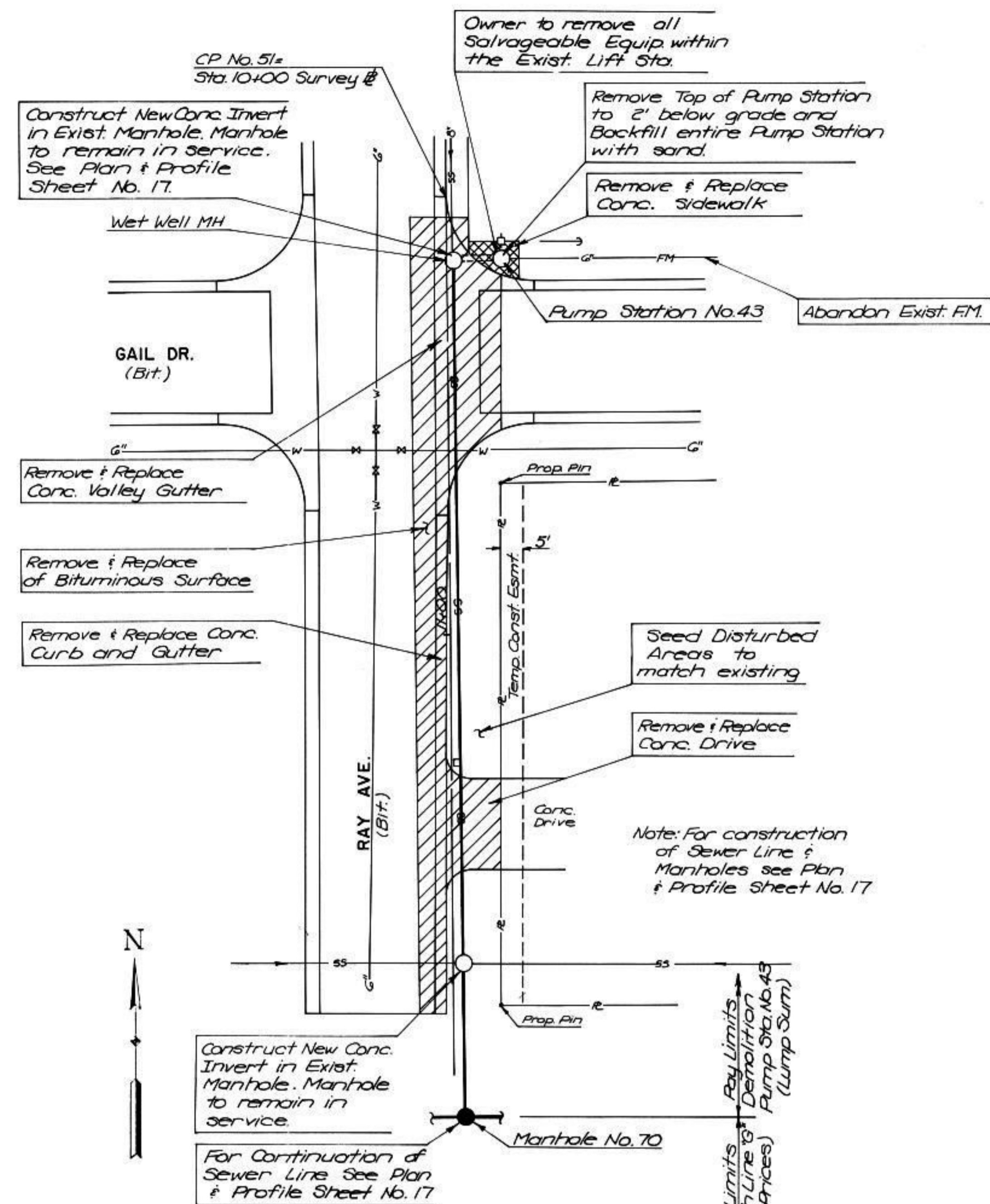


EAST DRY CREEK INTERCEPTOR SEWER			
SALINA, KANSAS			
SITE PLAN BRANCH LINE "A"			
BUR BUCHER, WILLIS & RATLIFF			
<small>ENGINEERS • PLANNERS • ARCHITECTS</small>			
<small>SALINA</small>	<small>HAYS</small>	<small>KANSAS CITY</small>	<small>KANSAS CITY</small>
MADE <i>DMB</i>	DATE <i>3-12-92</i>	TRACED <i>CSS</i>	DATE <i>3-13-92</i>
CHECKED <i>RDM</i>	DATE <i>5-6-92</i>	SCALE <i>As Noted</i>	



SITE PLAN BRANCH LINE "B"

Scale: 1" = 20'



SITE PLAN BRANCH LINE "C"

Scale: 1" = 20'

EAST DRY CREEK INTERCEPTOR SEWER
SALINA, KANSAS

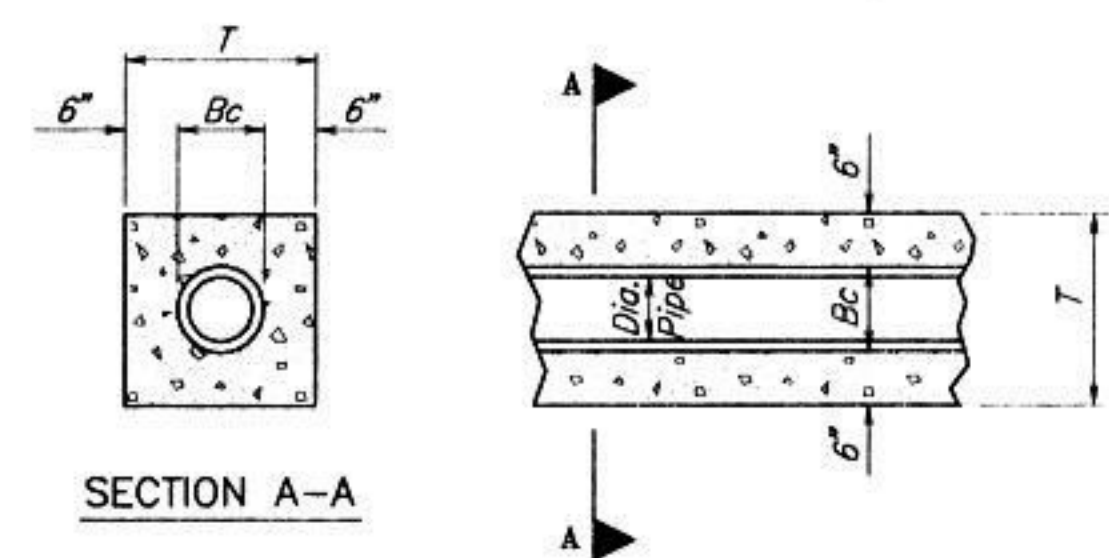
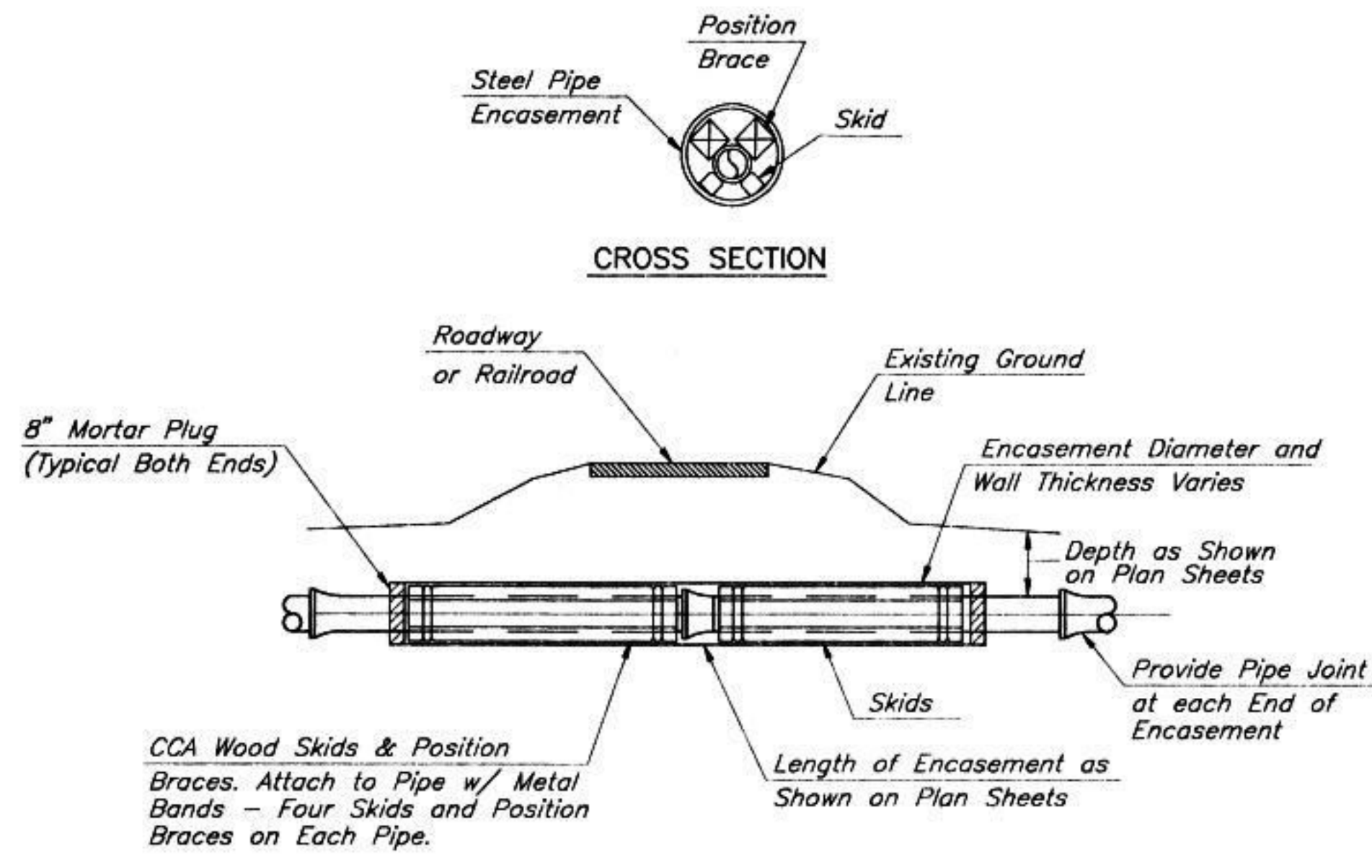
SITE PLAN BRANCH LINE "B"
& BRANCH LINE "C"

BUR BUCHER, WILLIS & RATLIFF
ENGINEERS • PLANNERS • ARCHITECTS

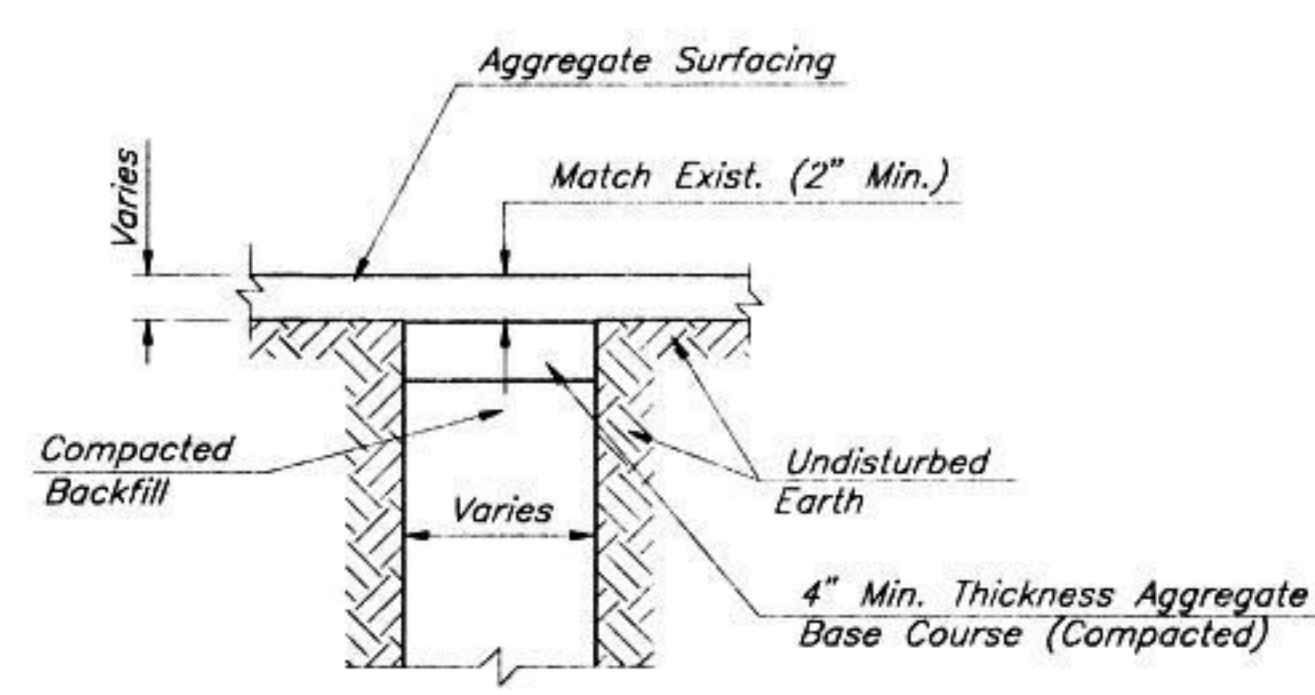
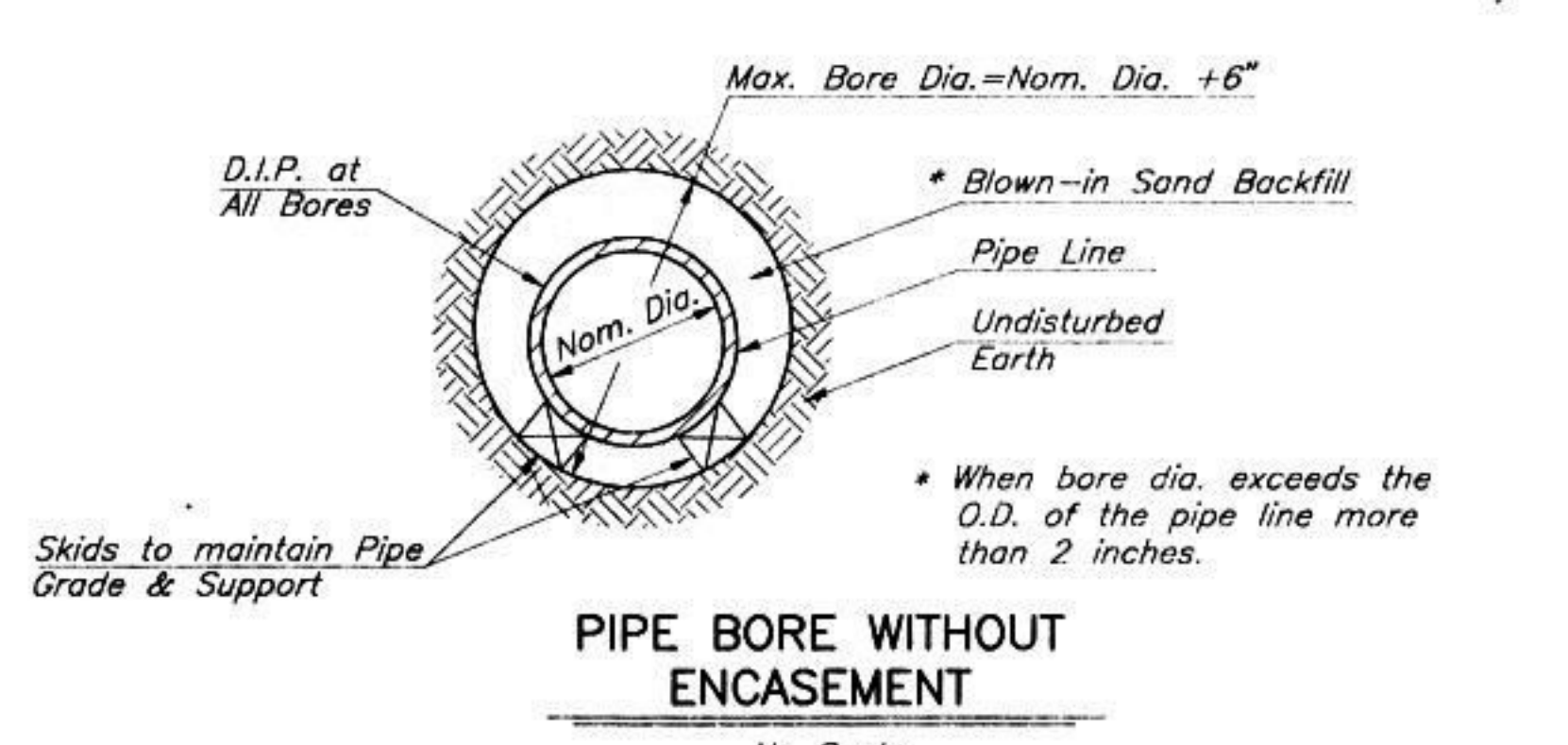
SALINA HAYS KANSAS CITY

MADE DMB DATE TRACED CSS DATE 3-13-92

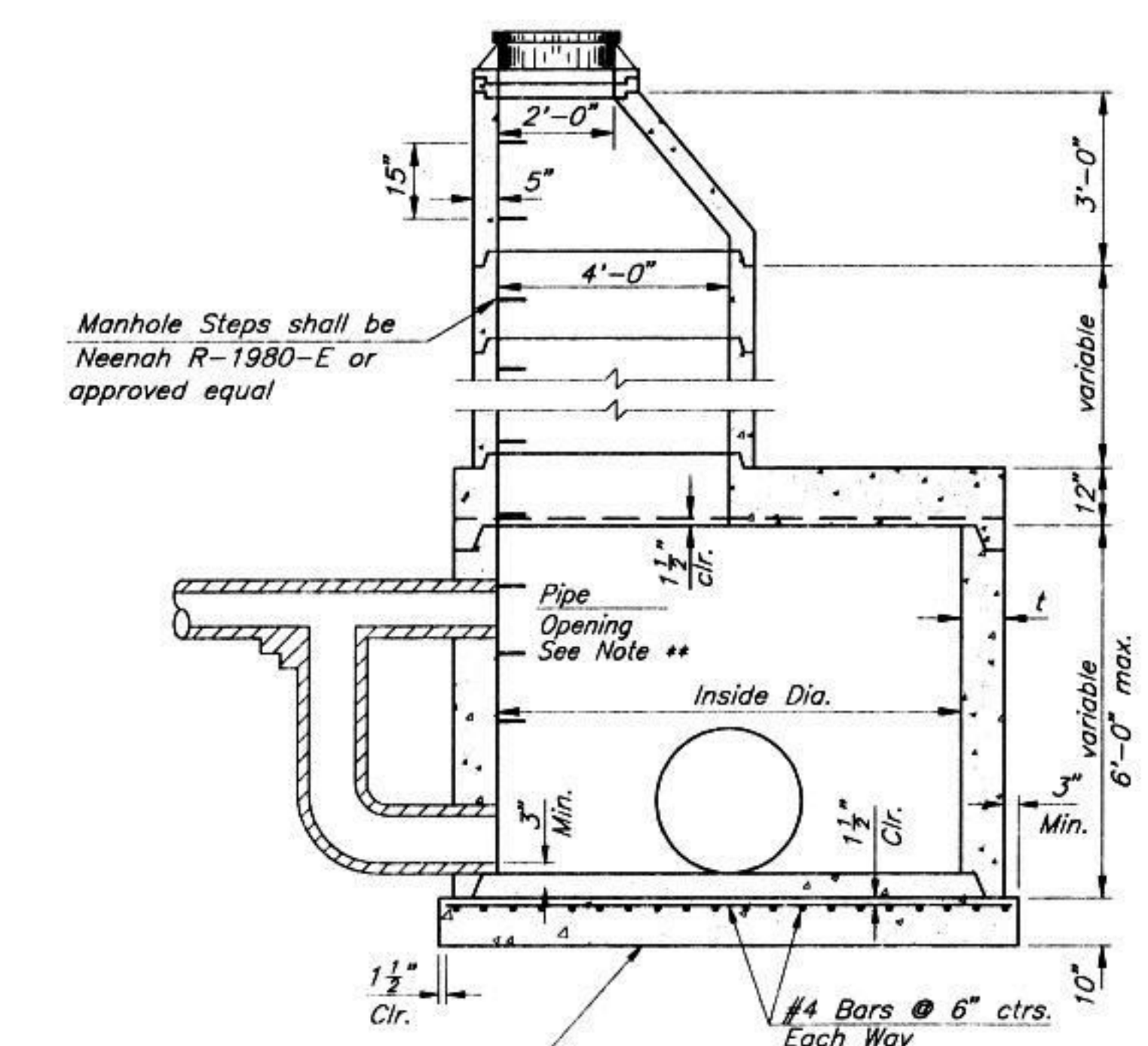
CHECKED RDM DATE 5-6-92 SCALE As Noted



CONCRETE ENCASEMENT DETAILS
No Scale

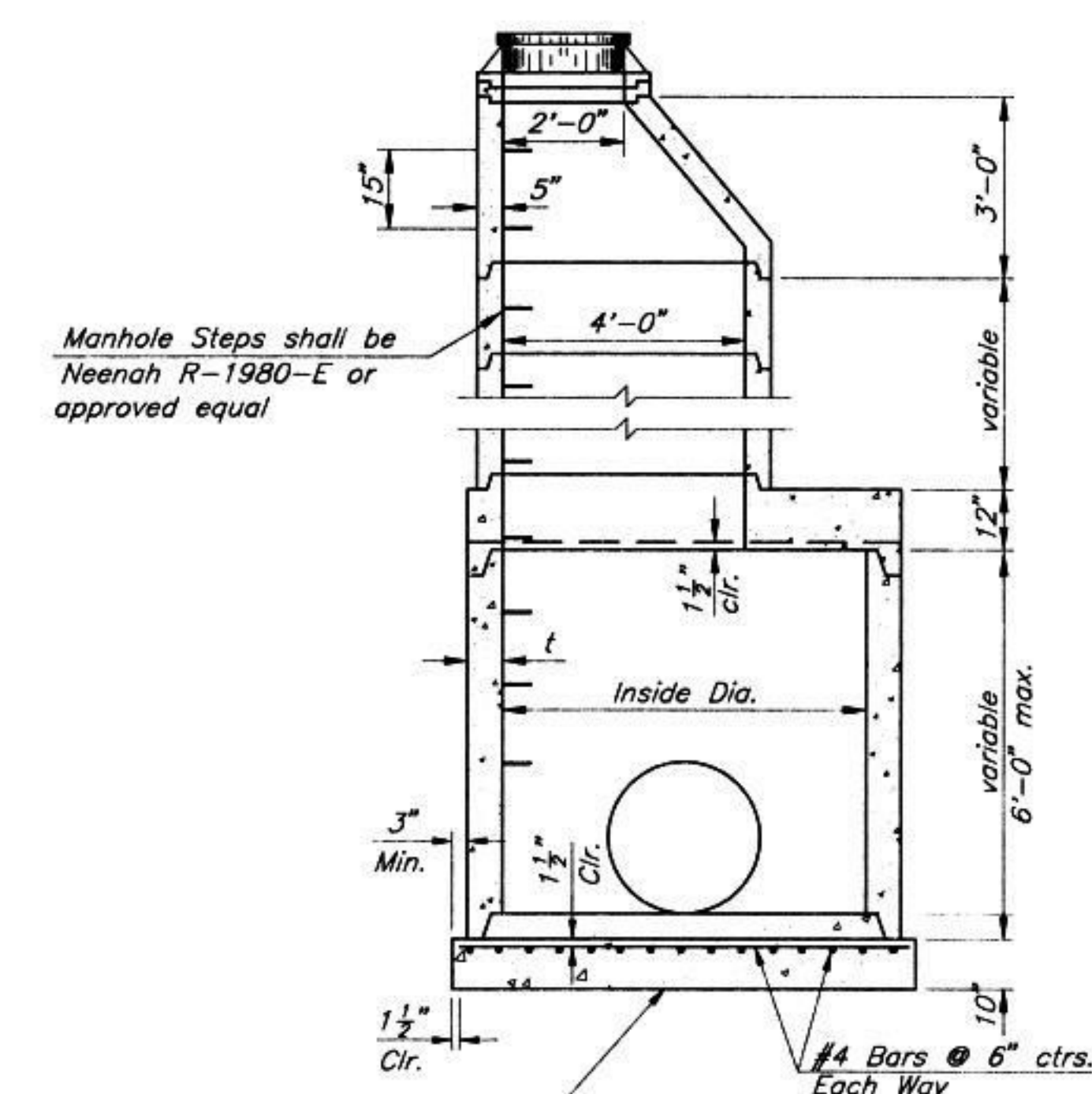


AGGREGATE SURFACING
No Scale

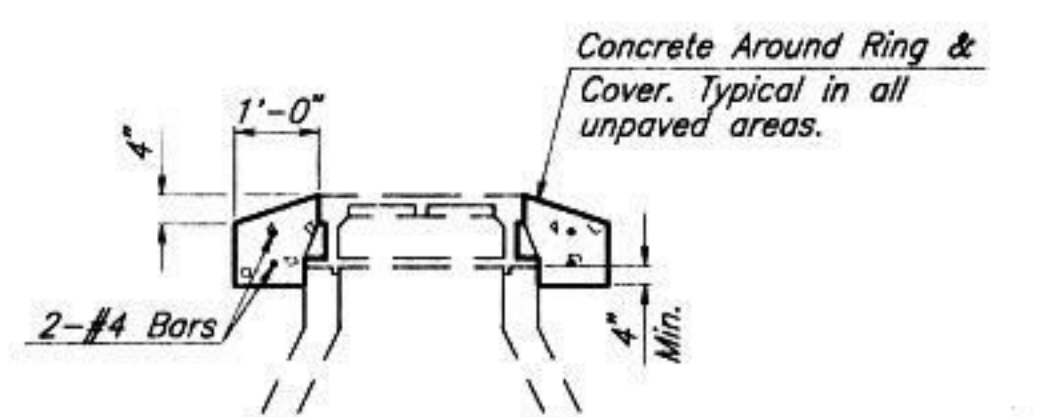


TYPE V REDUCING DROP MANHOLE
No Scale

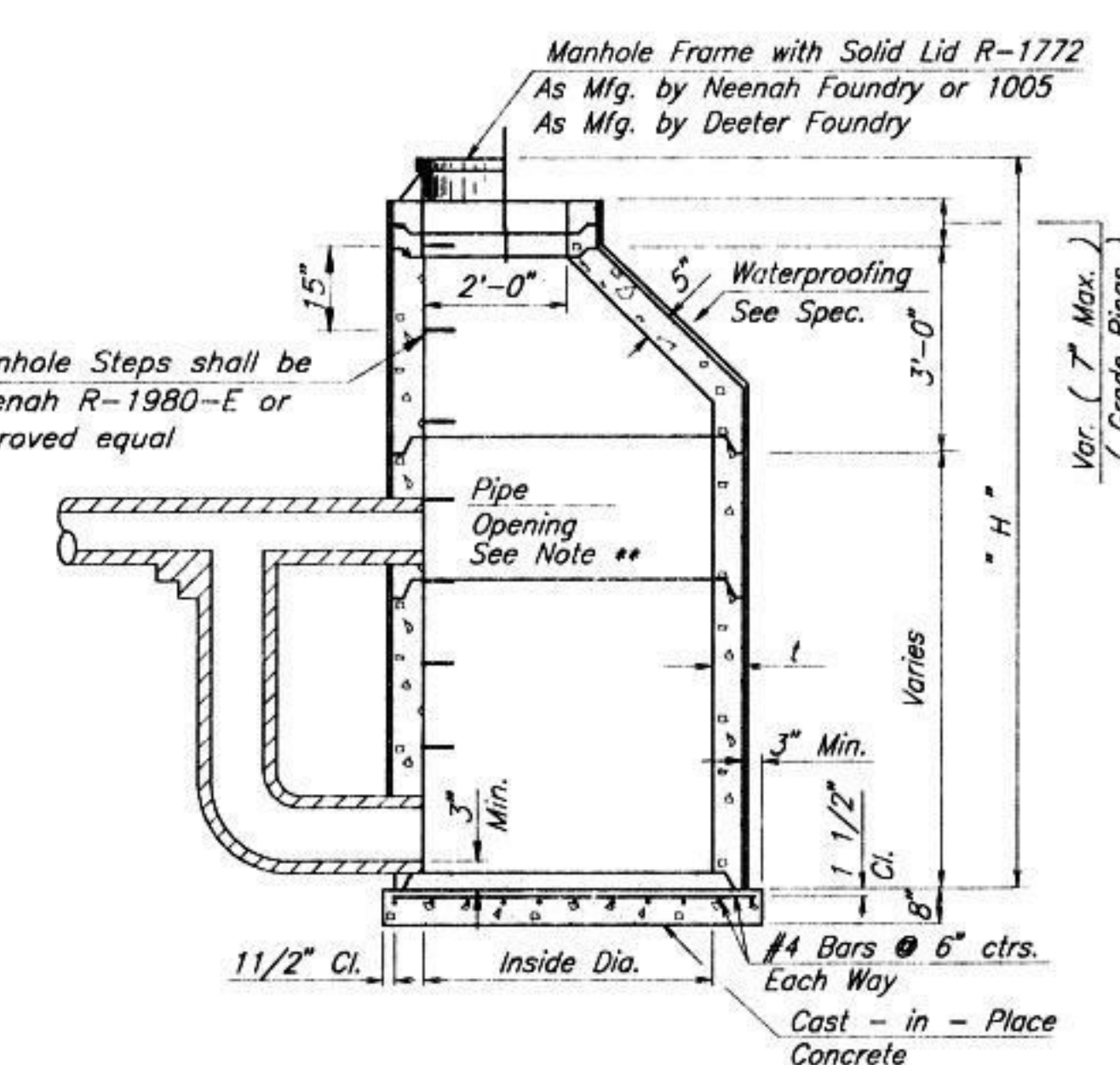
Note ** Openings for sewer pipes to be flexible and water-tight in accordance with ASTM C923.



TYPE IV REDUCING MANHOLE
No Scale

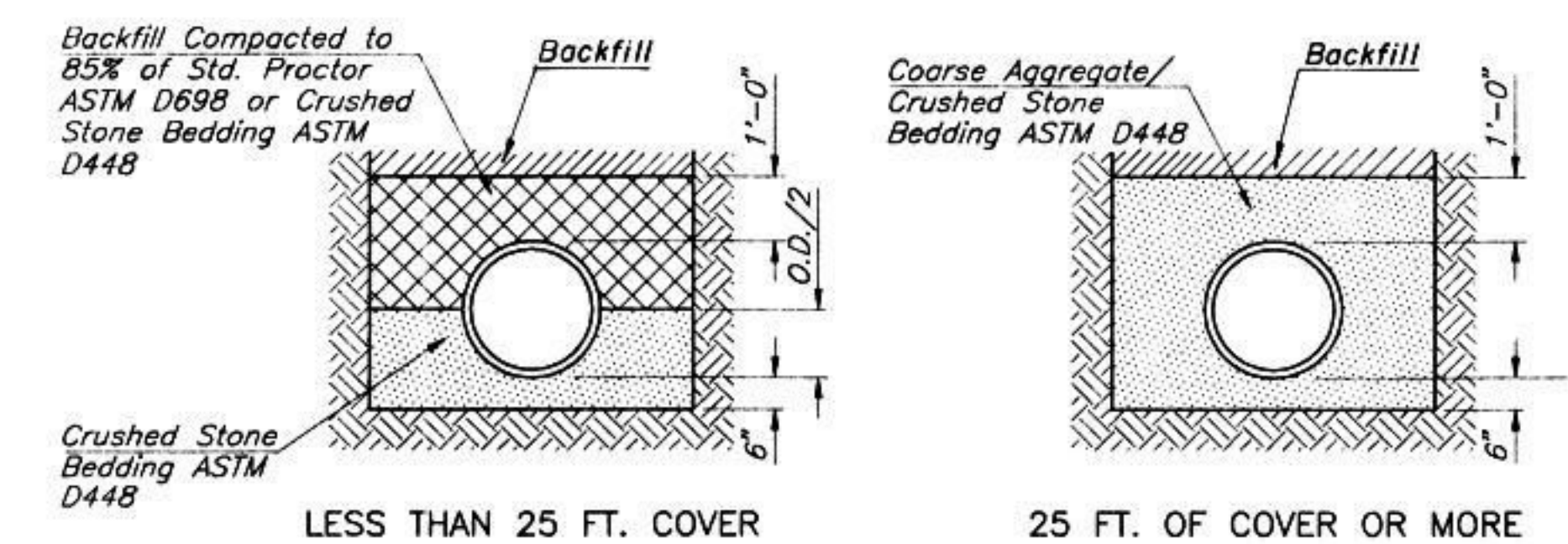


CONCRETE PROTECTION COLLAR
Scale: 1/2" = 1'-0"

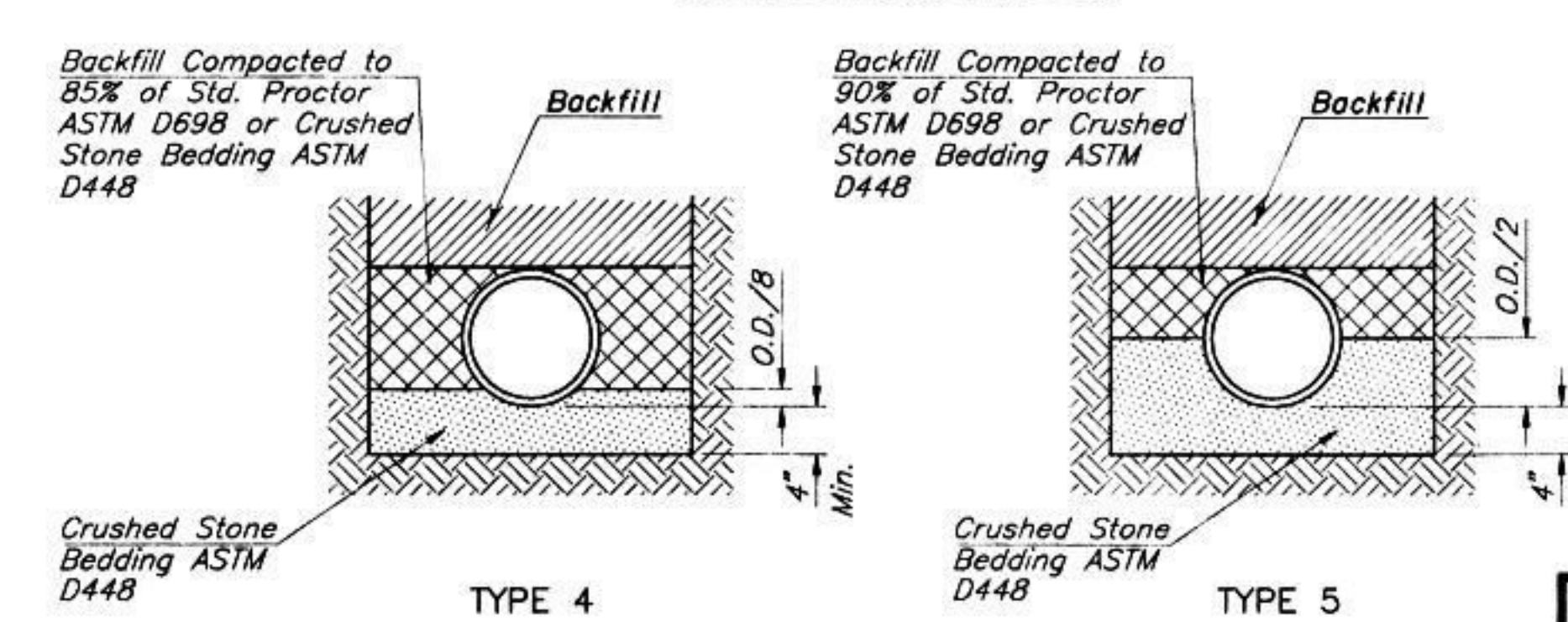


TYPE III MANHOLE
No Scale

Note ** Openings for sewer pipes to be flexible and water-tight in accordance with ASTM C923.

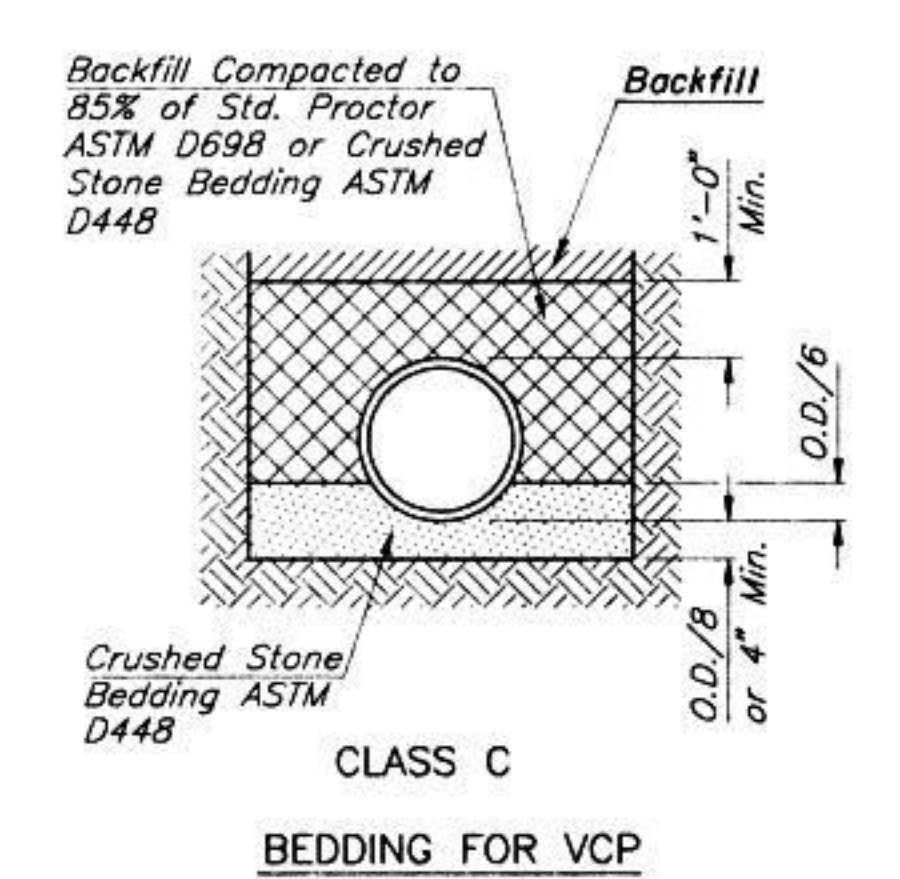
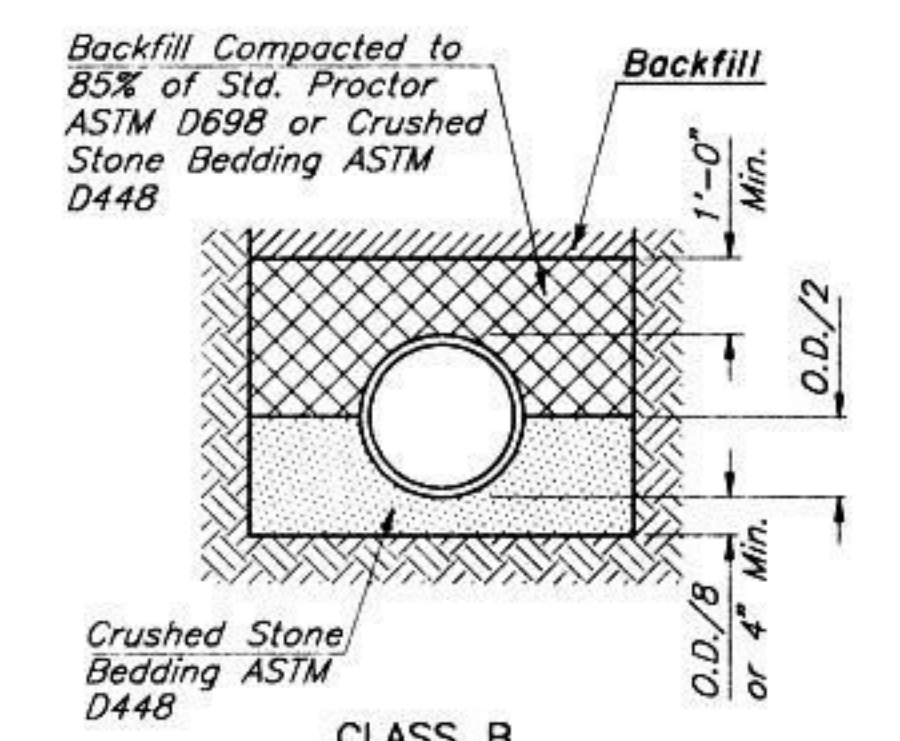


1. Less than 25 Ft. cover: Shovel slice or compact embedment in haunches to springline.
2. 25 Ft. of cover or more: Shovel slice stone in haunches, through springline in lifts until pipe is covered one foot.
3. Minimum width of trench is the pipe O.D.+18".
4. Maximum trench width is pipe O.D.+24".



BEDDING FOR DUCTILE IRON PIPE

PIPE EMBEDMENTS
No Scale



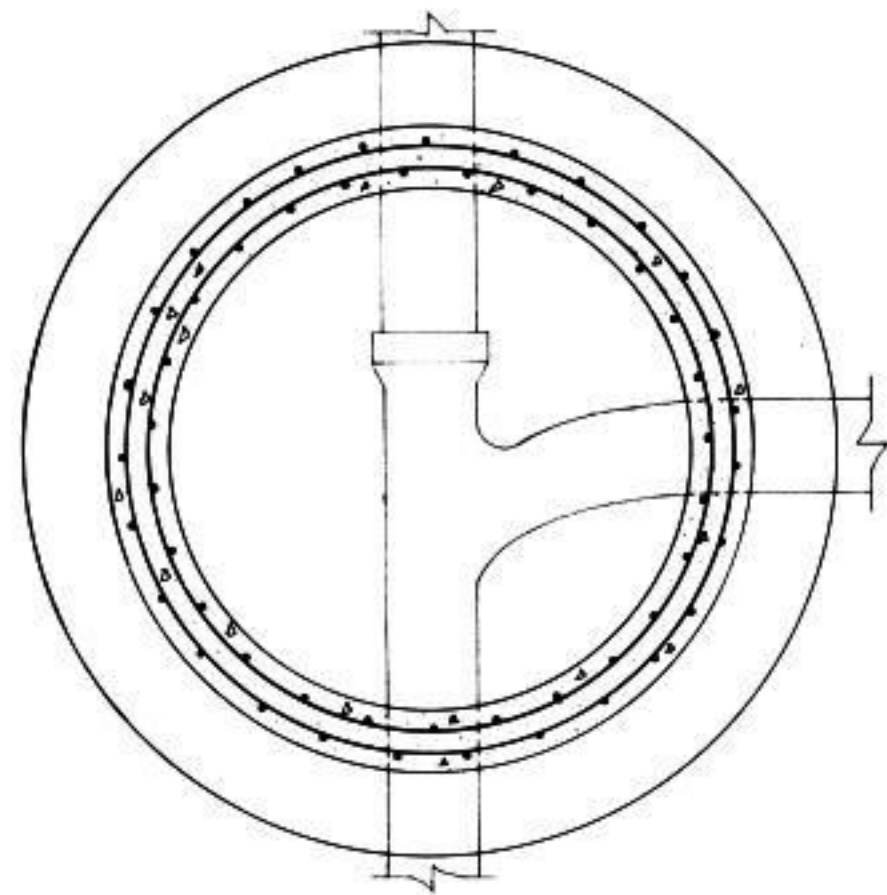
BEDDING FOR VCP

**EAST DRY CREEK INTERCEPTOR SEWER
SALINA, KANSAS**

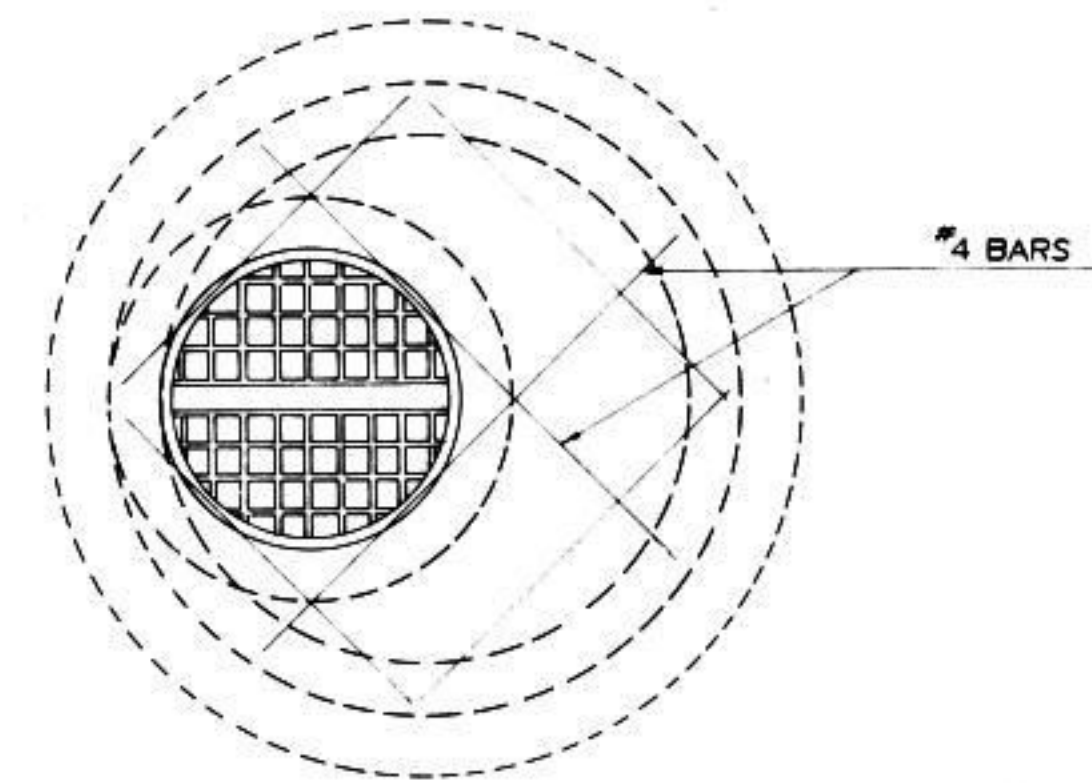
MISCELLANEOUS DETAILS

BUR BUCHER, WILLIS & RATLIFF
ENGINEERS • PLANNERS • ARCHITECTS

MADE DMB DATE 1-27-92 TRACED CSS DATE 1-27-92
CHECKED DMB DATE 8-13-92 SCALE As Noted

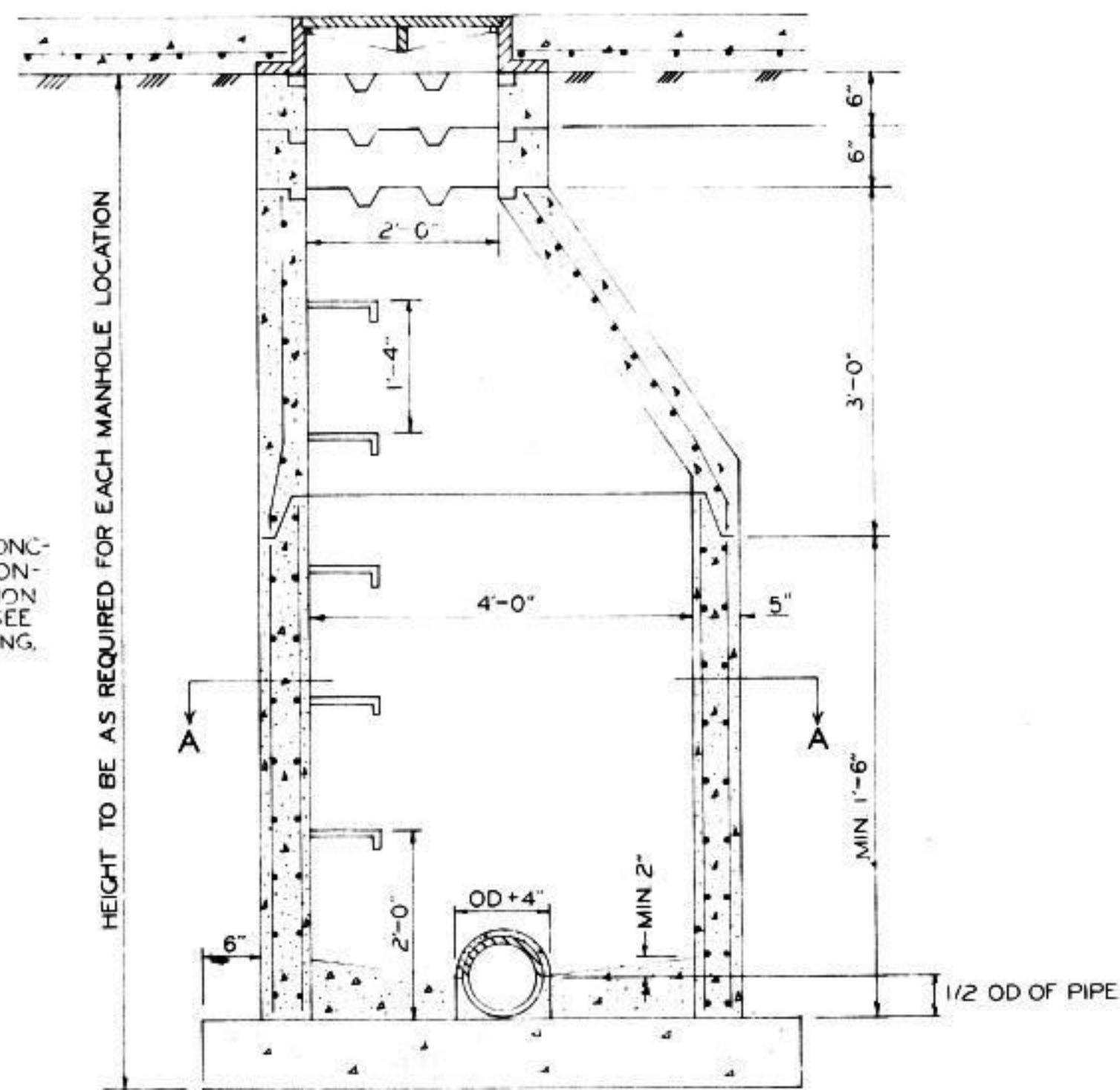


SECTION A-A

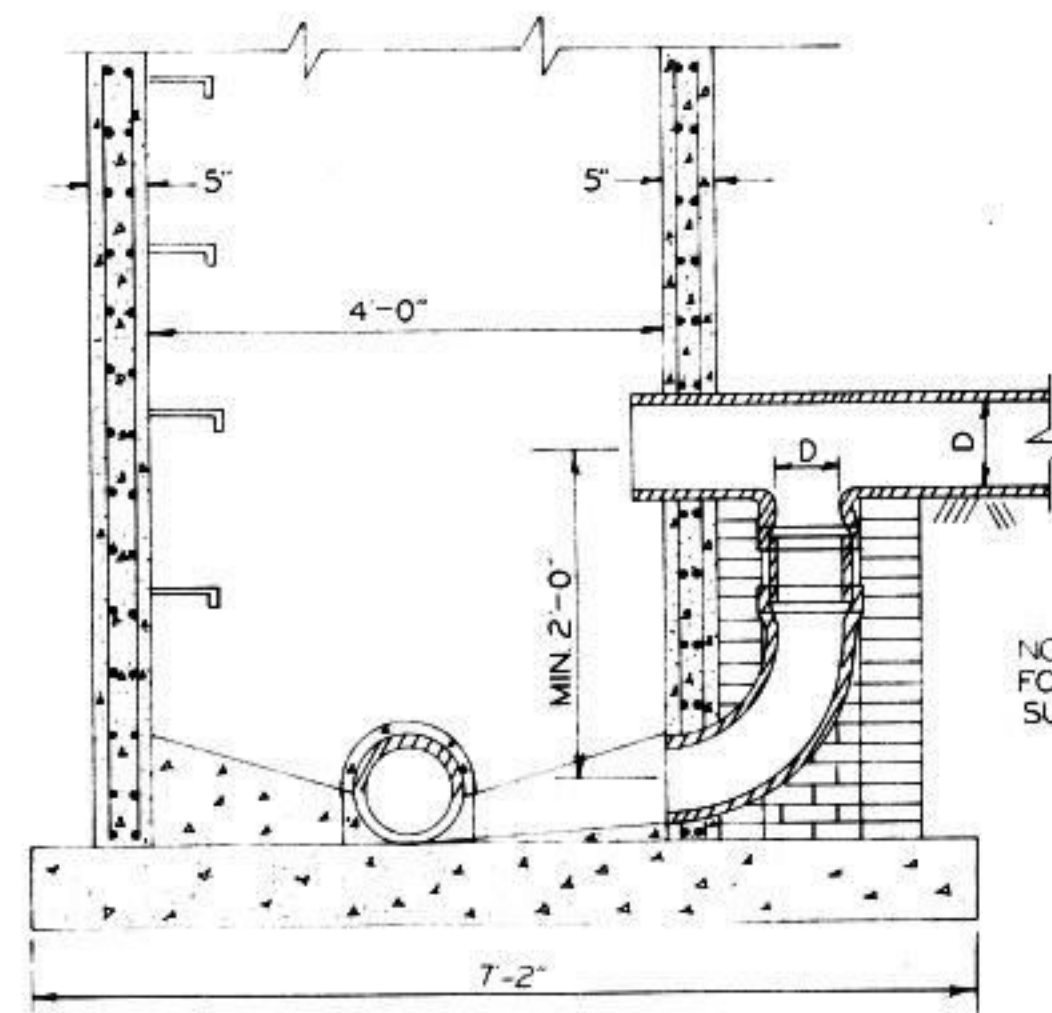


PLAN

GENERAL NOTE
 PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO A.S.T.M. SPECIFICATION C 478 70, WITH REVISIONS. SEE SHEET 23 FOR MANHOLE RING, COVER, AND STEP DETAILS.

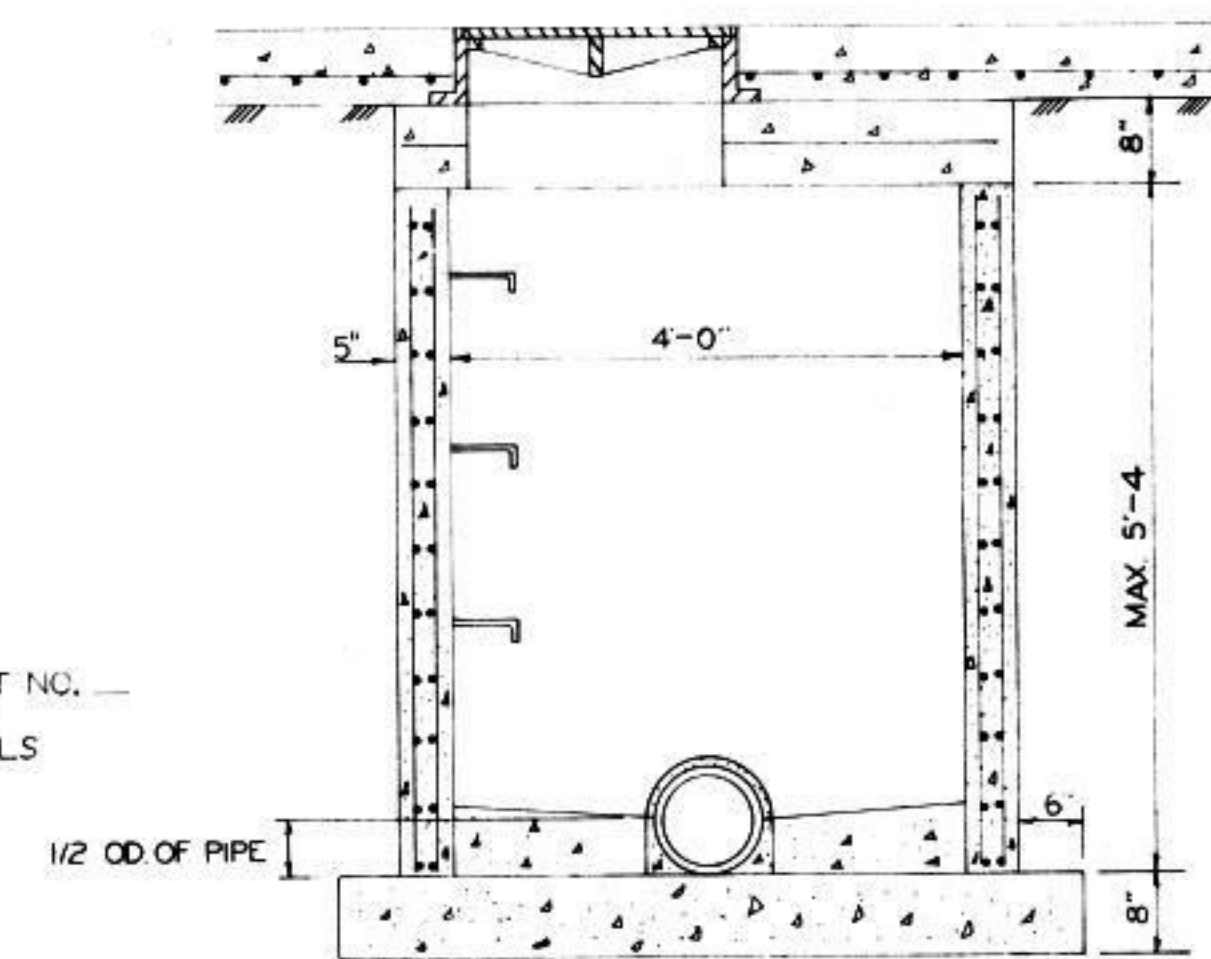


DETAIL OF STANDARD MANHOLE
 TYPE "I"



DETAIL OF DROP MANHOLE

NOTE: SEE SHEET NO. ___ FOR DROP PIPE SUPPORT DETAILS



DETAIL OF SHALLOW MANHOLE
 TYPE II

SANITARY		SEWER
Standard		Details
CITY OF		SALINA
Engineering		Department
300 W. ASH		SALINA, KANSAS
Date 5-8-92	Project No. 91-848	Sh. 22 of 25

CHECKED BY:
DATE:

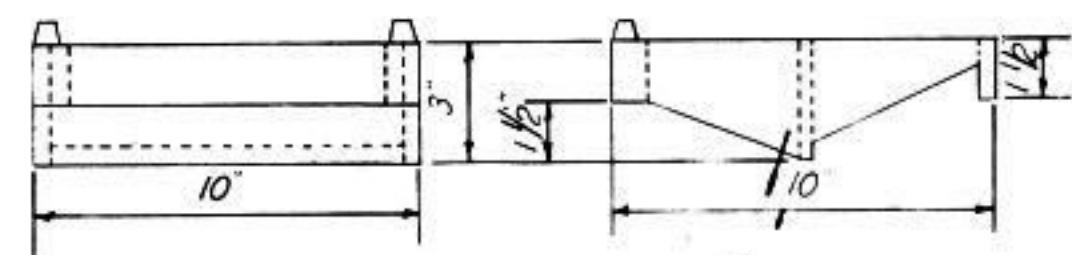
TRACED BY:
DATE:

DRAWN BY:
DATE:

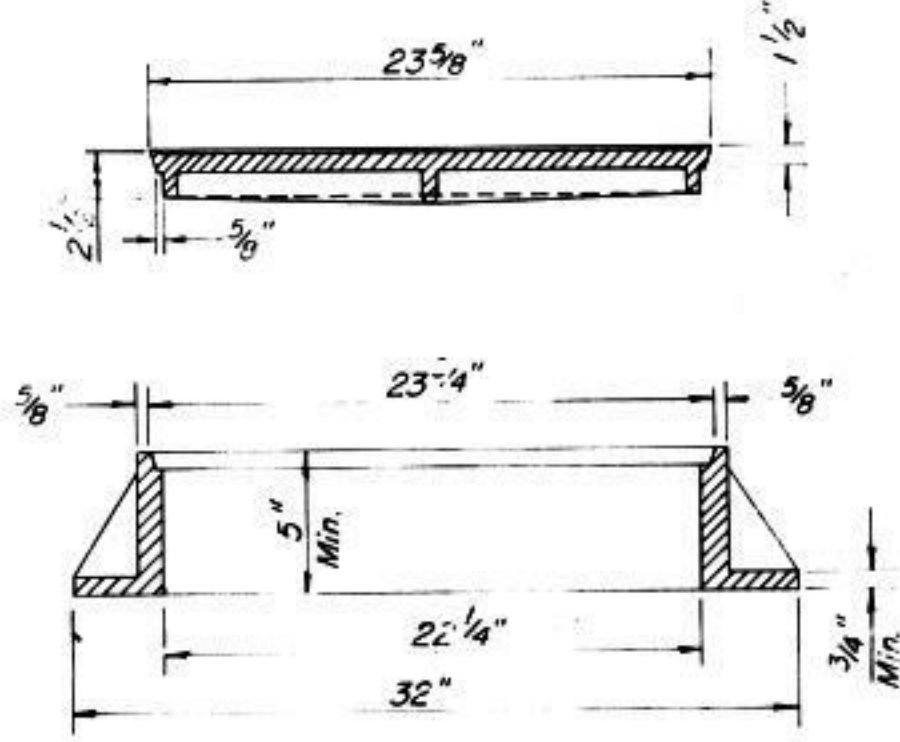
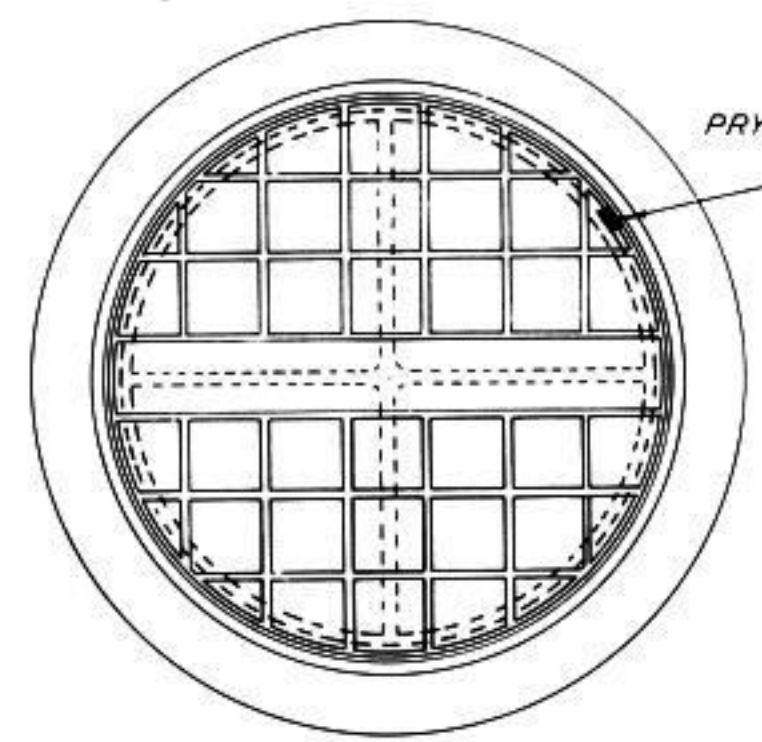
PLOTTED BY:
DATE:

PROFILE BY:
DATE:

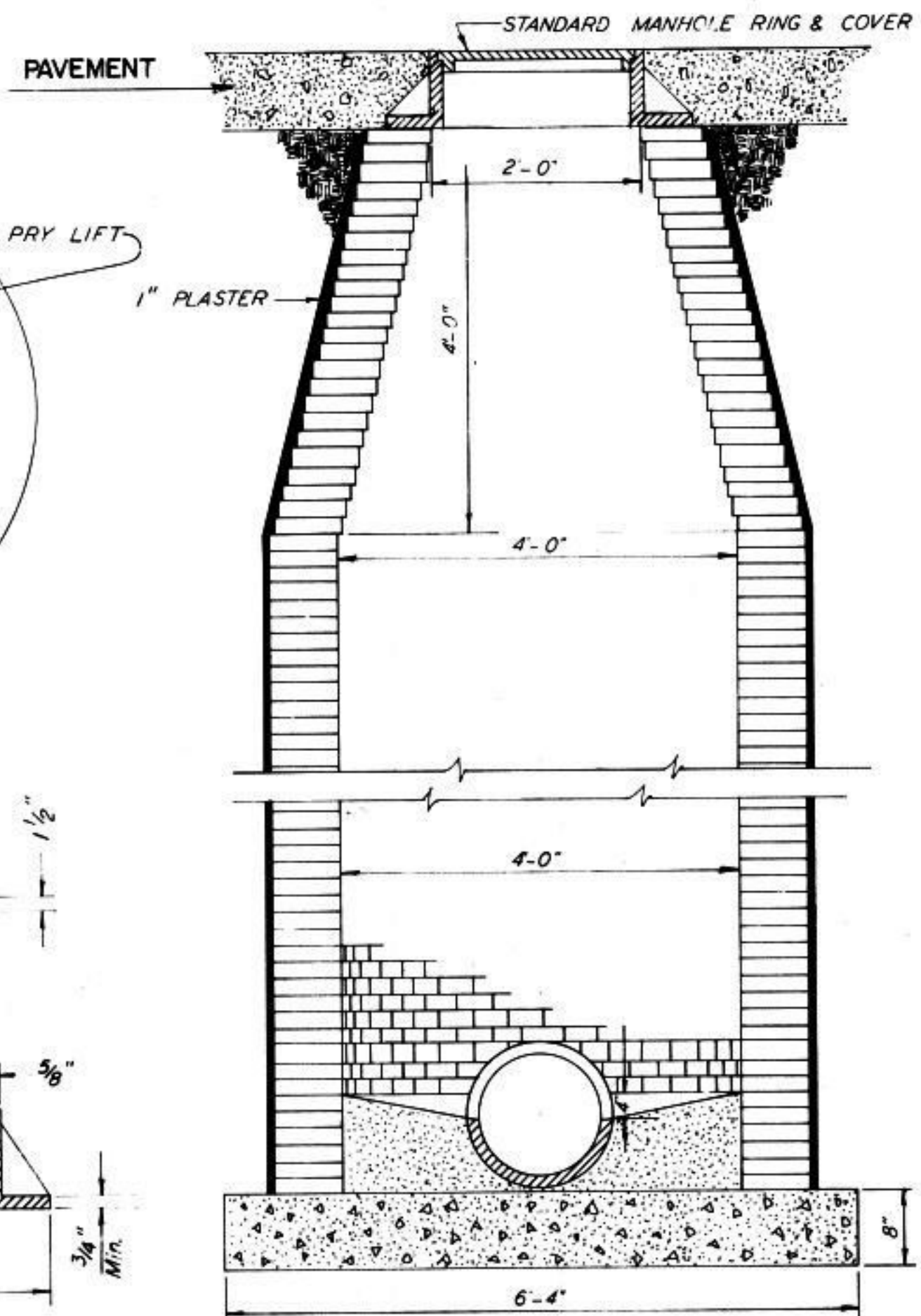
PRELIM. BY:
DATE:



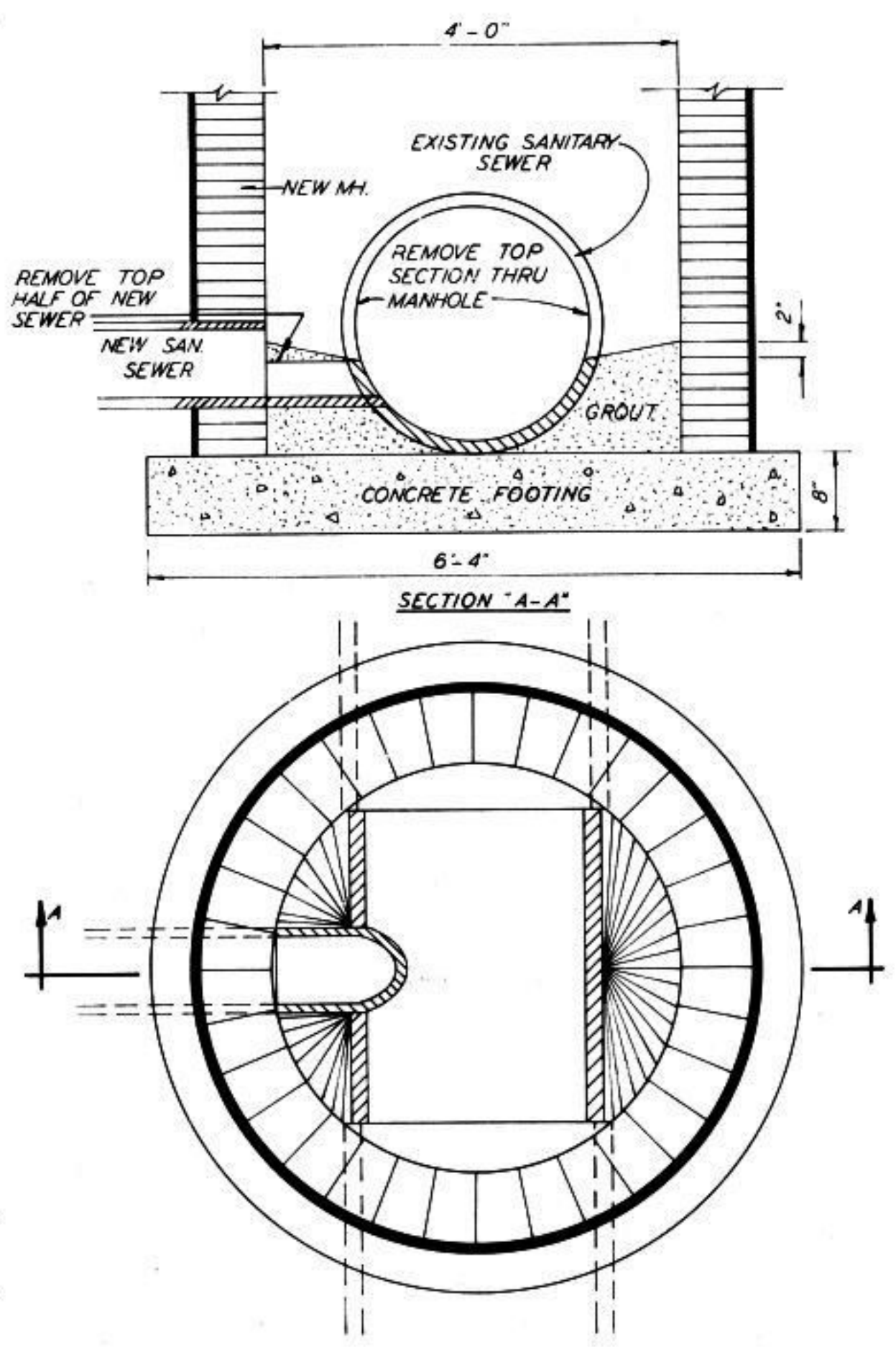
STANDARD MANHOLE STEP
FOR ALL MANHOLES OVER
3'-0" DEEP
MIN. WT. 10 1/2 LBS.



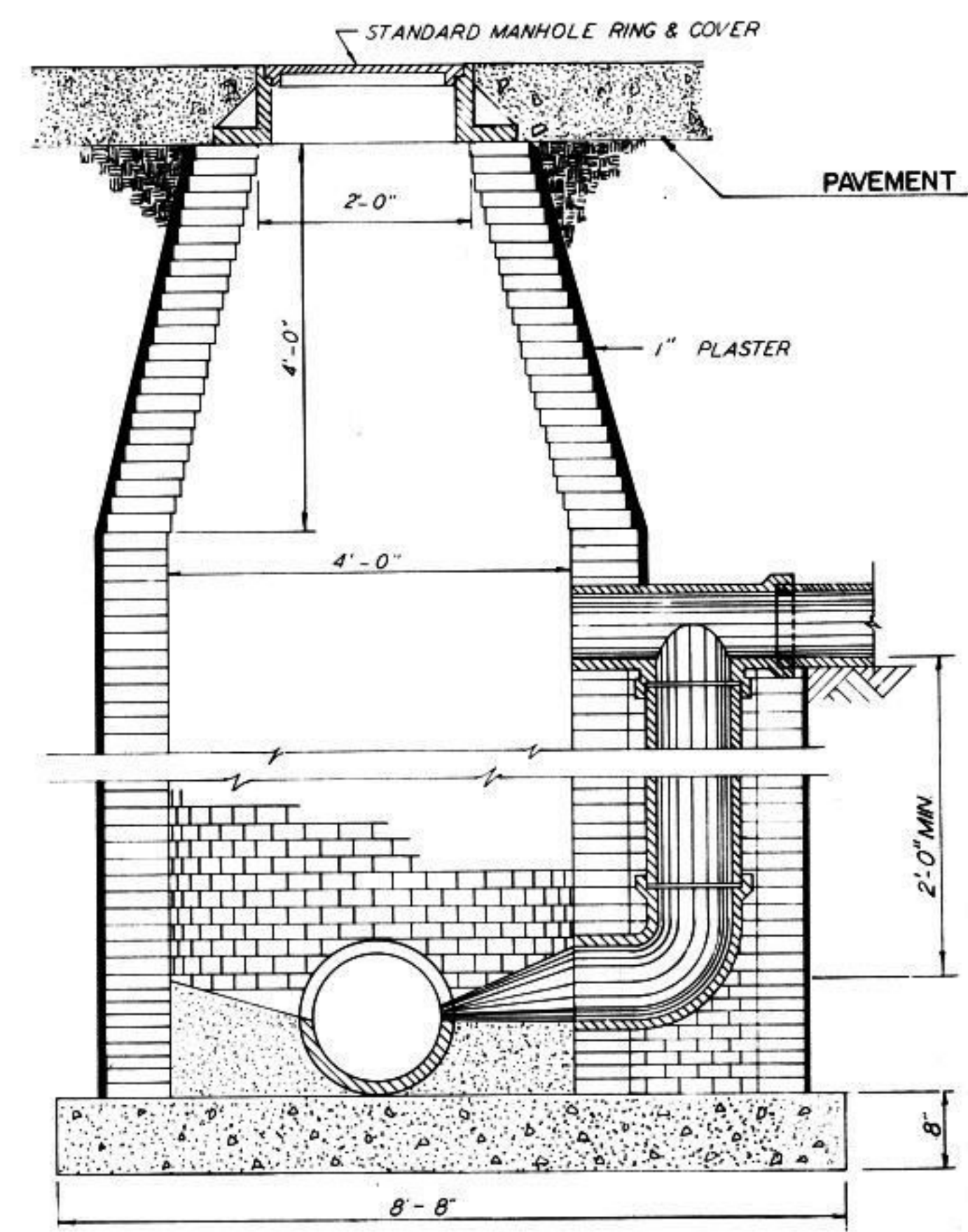
STANDARD MANHOLE RING & COVER
STREET MH. RING 170 L.B. MIN.
COVER 110 L.B. MIN.
STREET MH. RING AND COVER TO BE
MACHINED



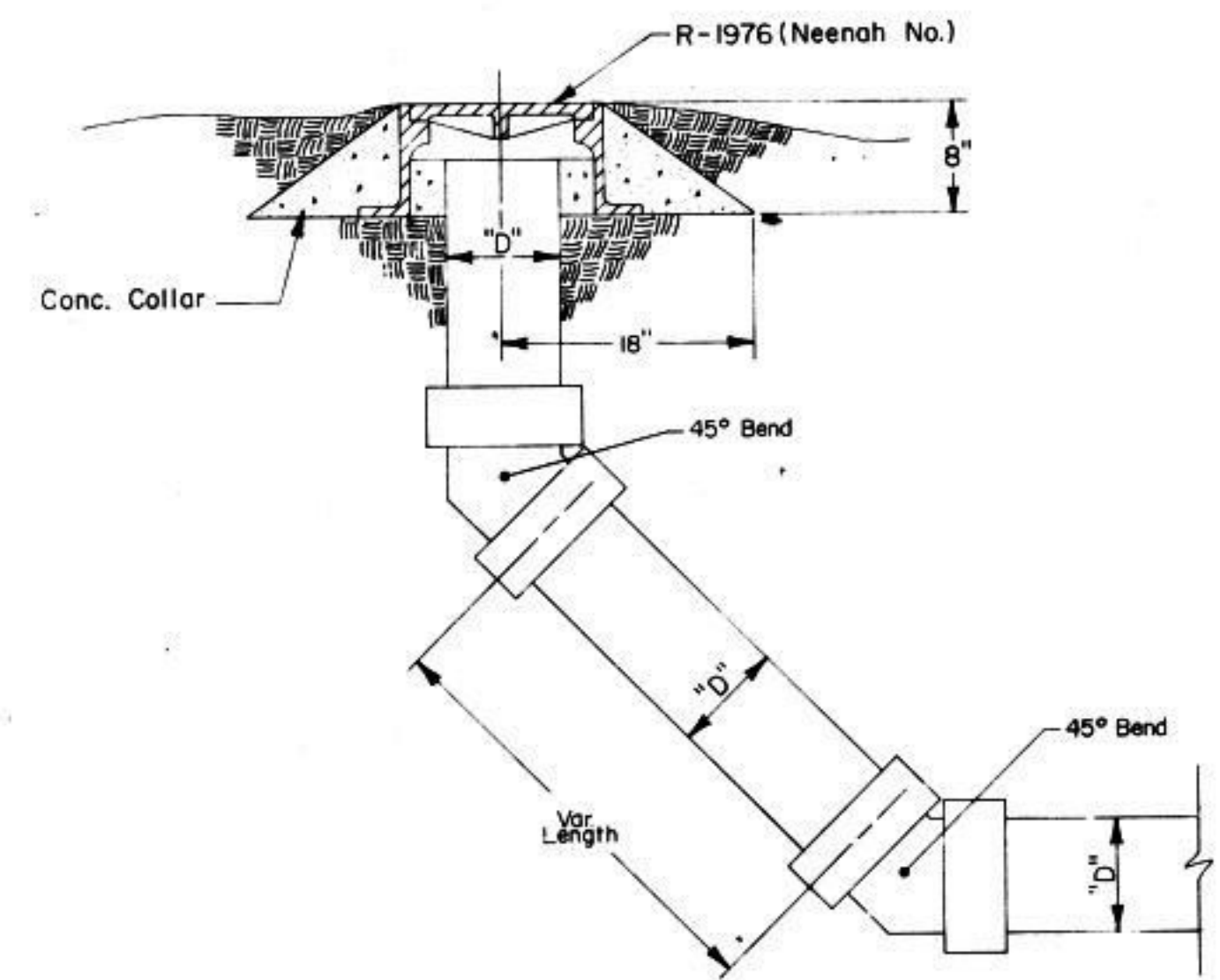
TYPE "I" STANDARD BRICK MANHOLE



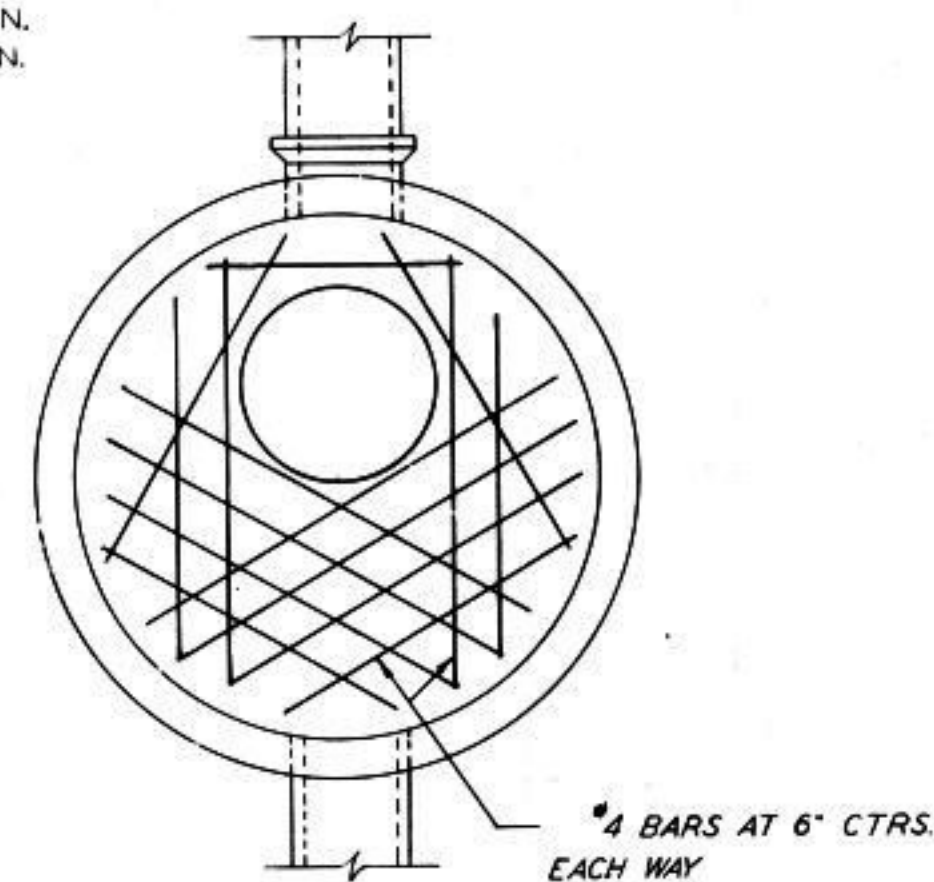
NEW SEWER CONNECTION



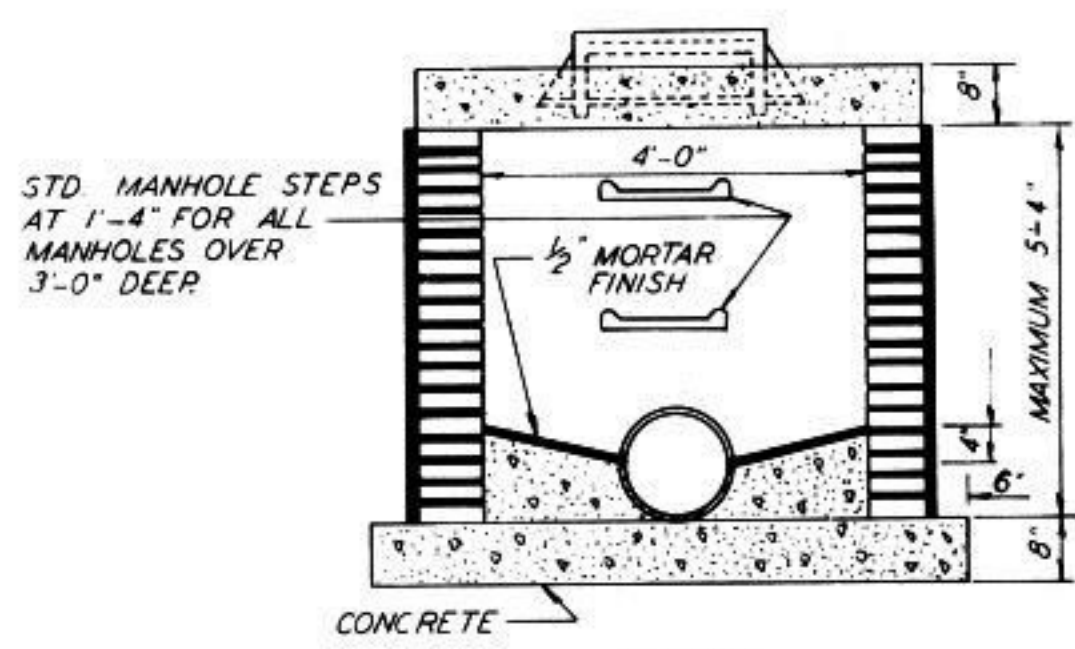
DETAIL DROP MANHOLE



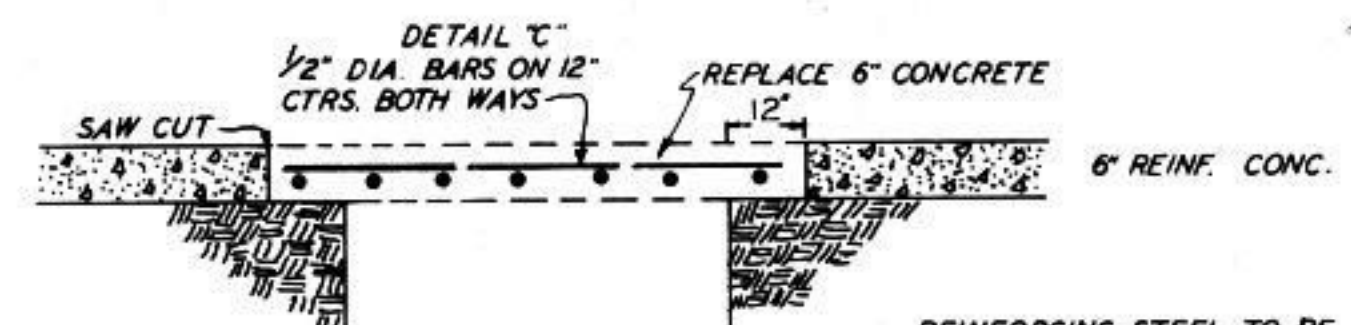
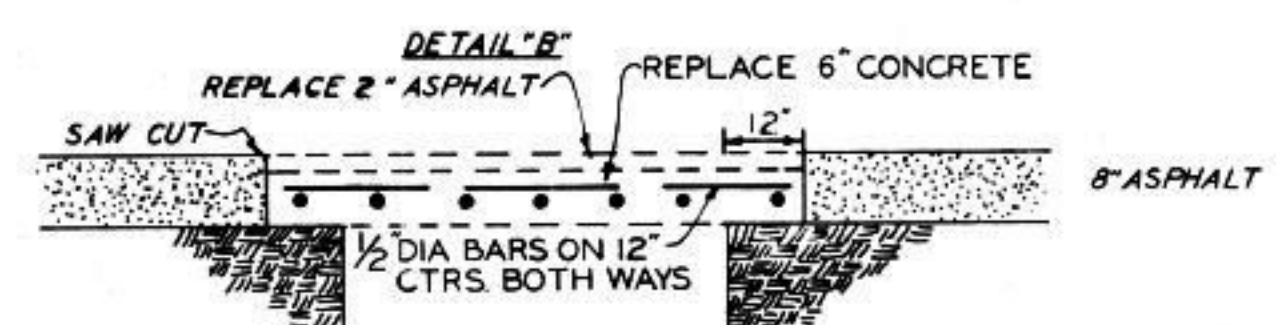
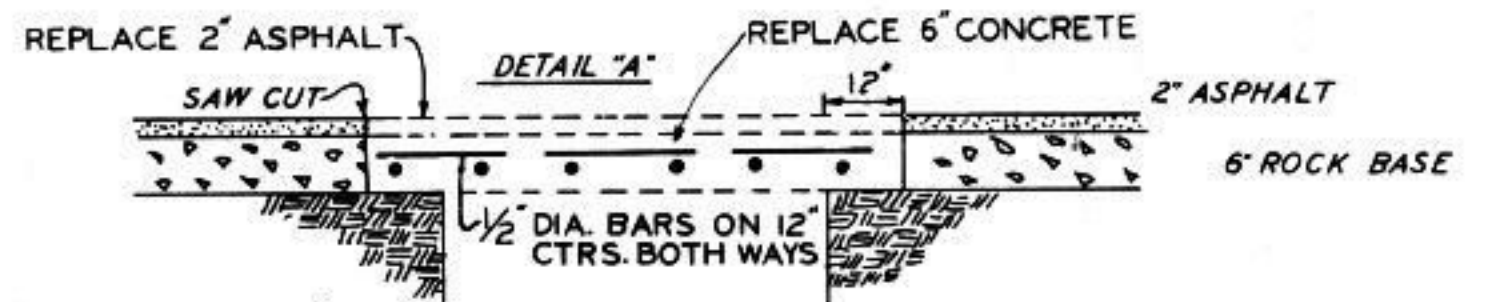
TEMPORARY
SANITARY SEWER CLEAN OUT



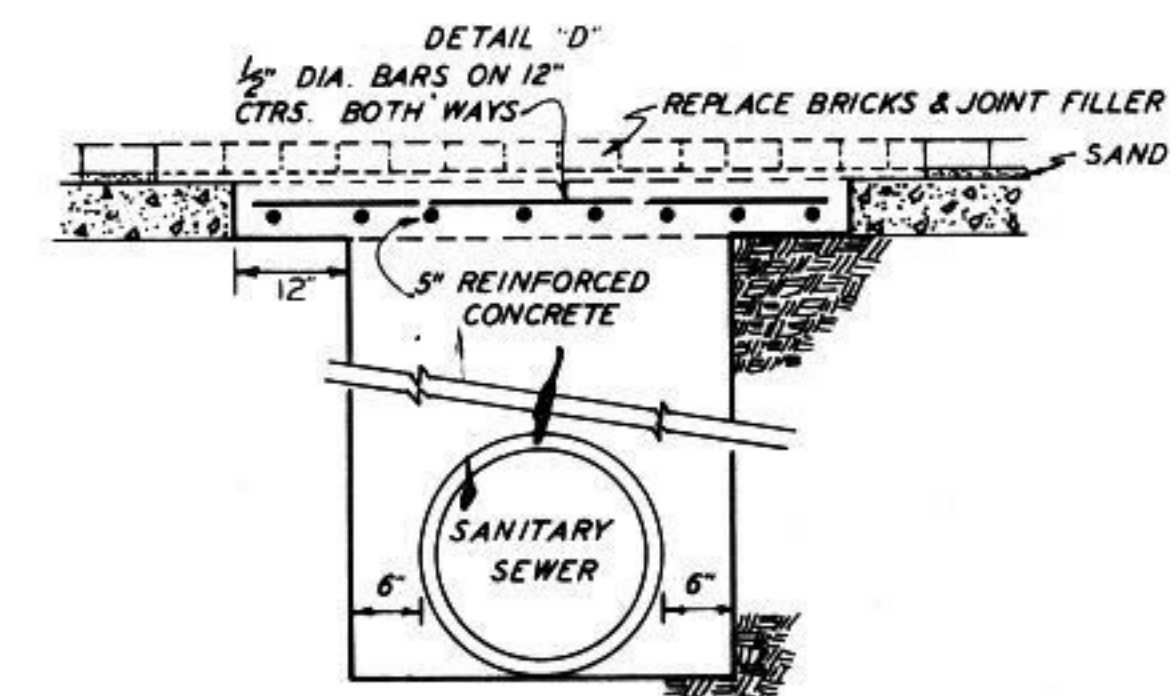
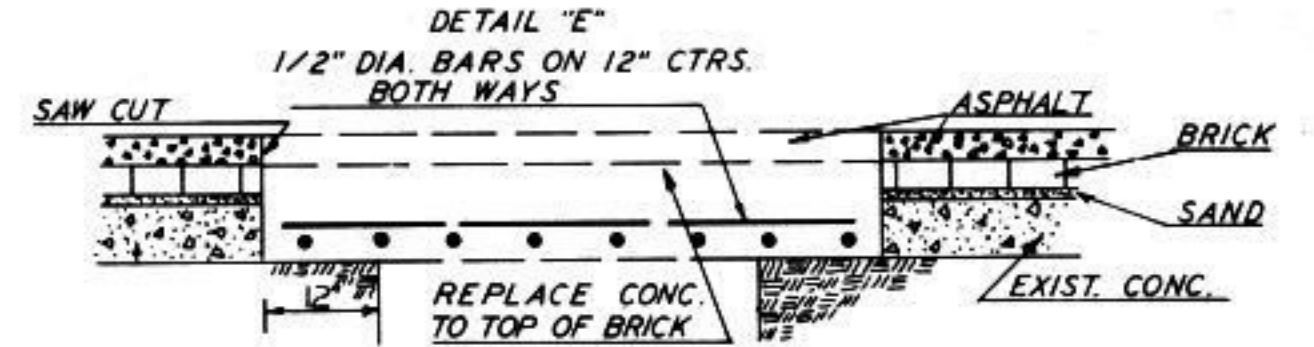
PLAN
STANDARD SHALLOW MANHOLE



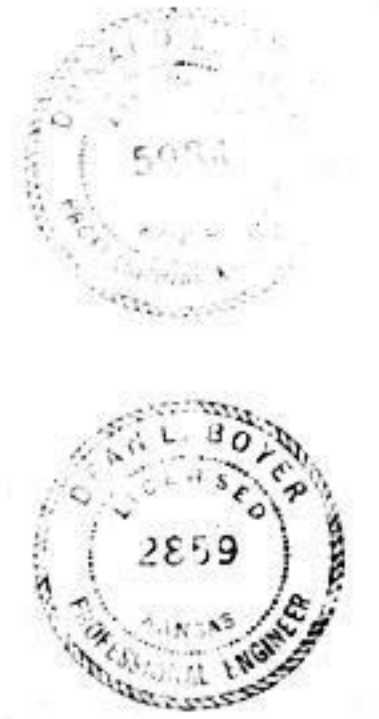
SECTION
STANDARD BRICK MANHOLE
FOR SHALLOW DEPTH
TYPE II



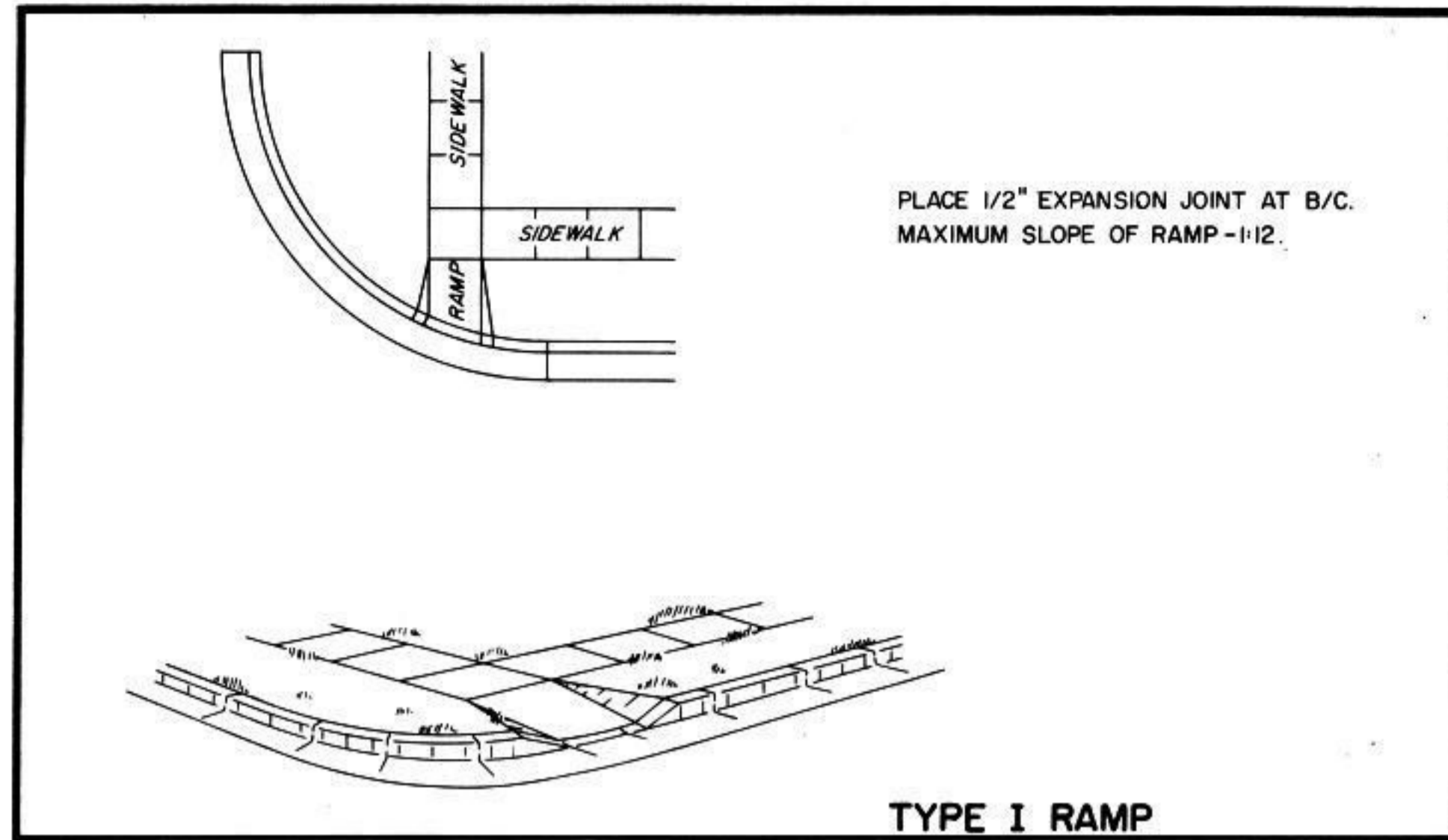
REINFORCING STEEL TO BE
INCIDENTAL TO PATCHING &
SHALL NOT BE CONSIDERED
AN EXTRA PAY ITEM.



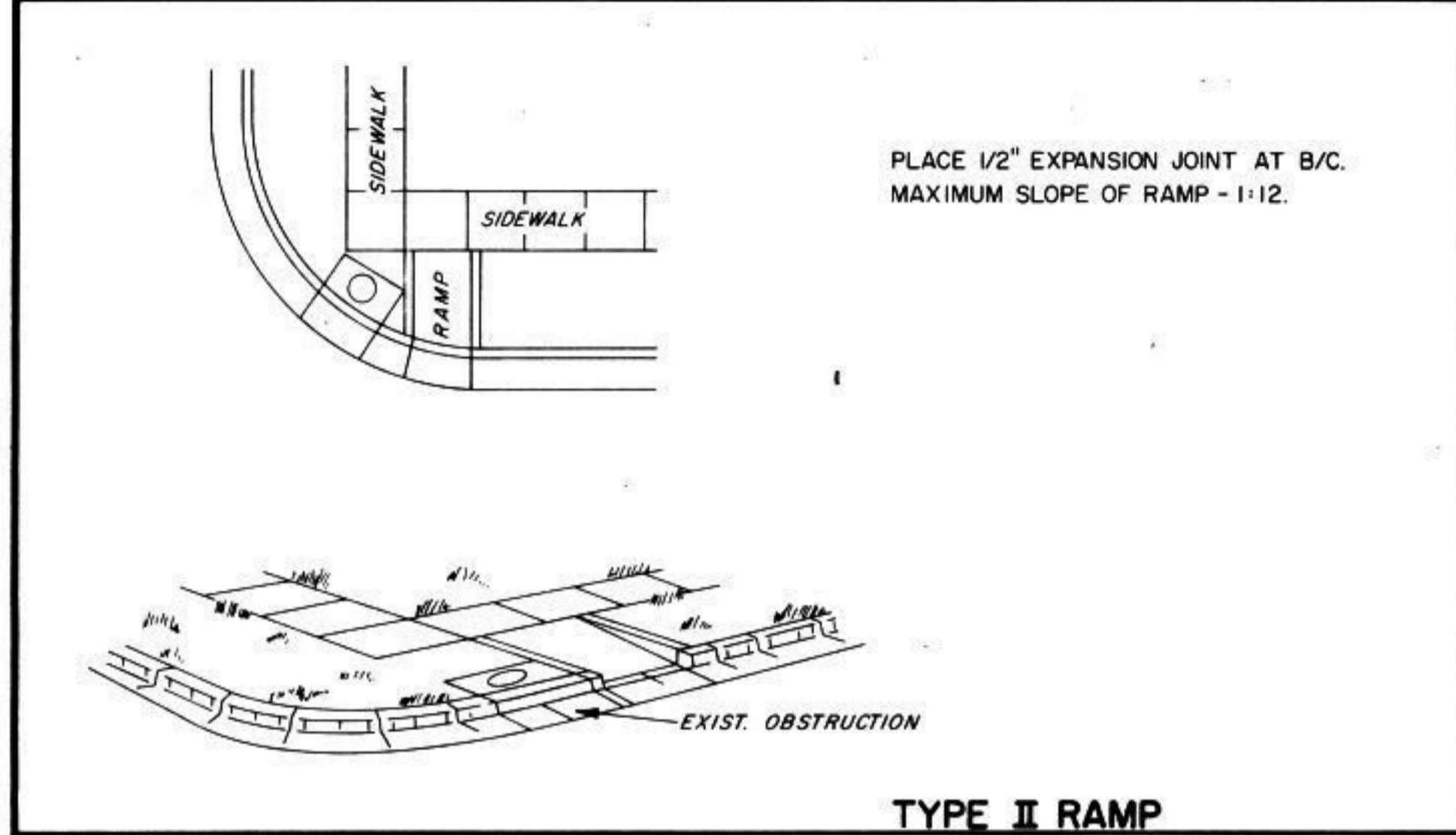
PAVEMENT CUTTING DETAILS
PATCHING DETAILS



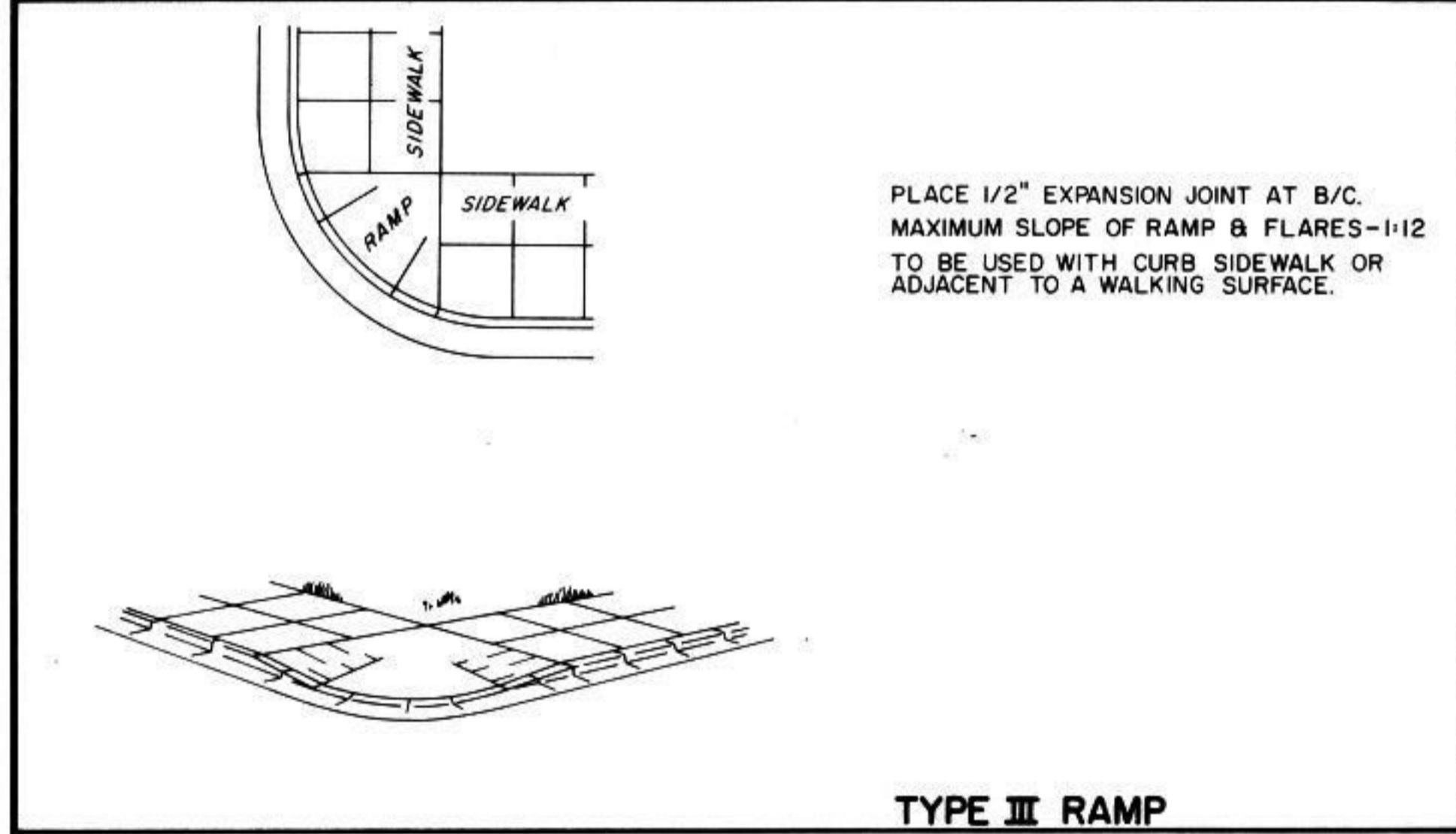
REVISED	DATE
CITY OF SALINA KANSAS CITY ENGINEER'S OFFICE	
STANDARD DETAILS	
SANITARY SEWER	
DATE: 5-8-92	JOB NO. 91-048 SH. 23 OF 25



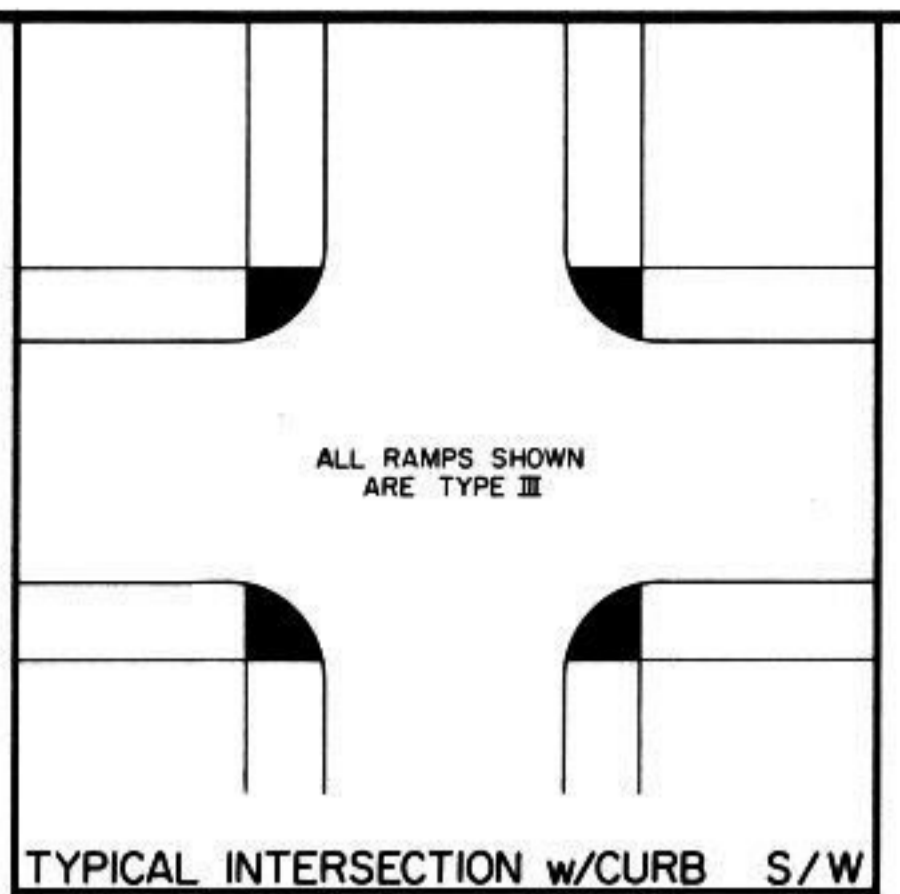
TYPE I RAMP



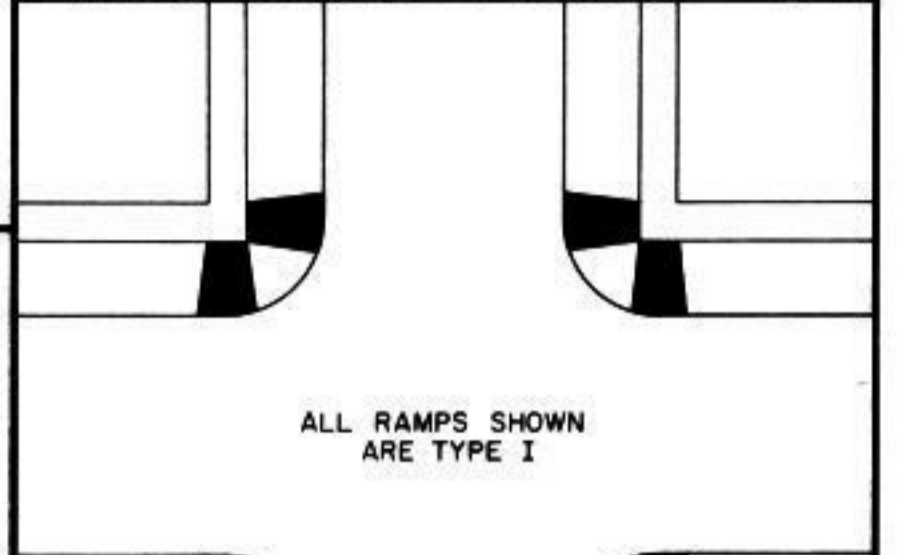
TYPE II RAMP



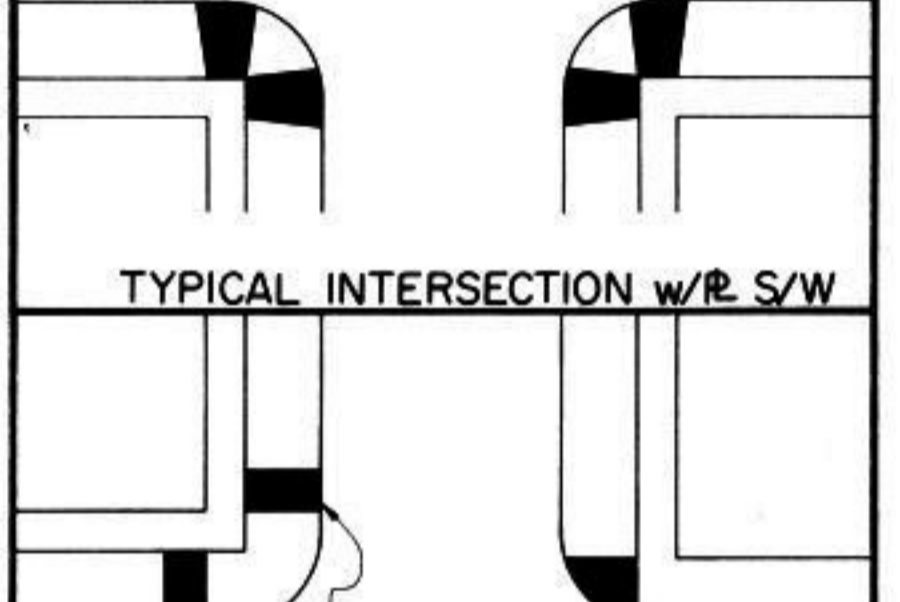
TYPE III RAMP



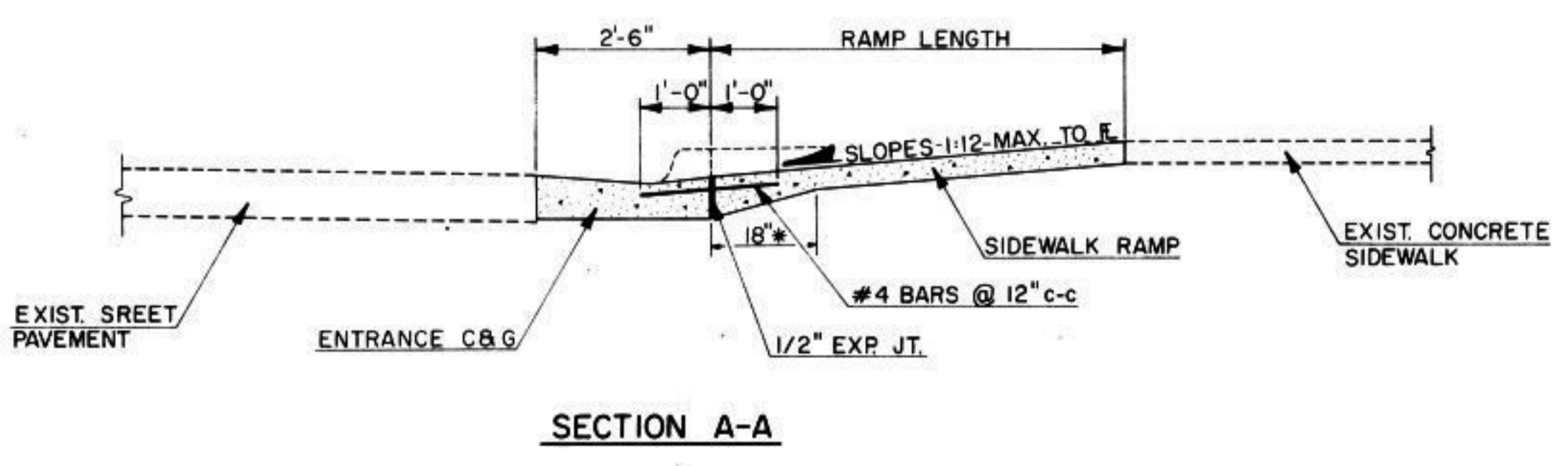
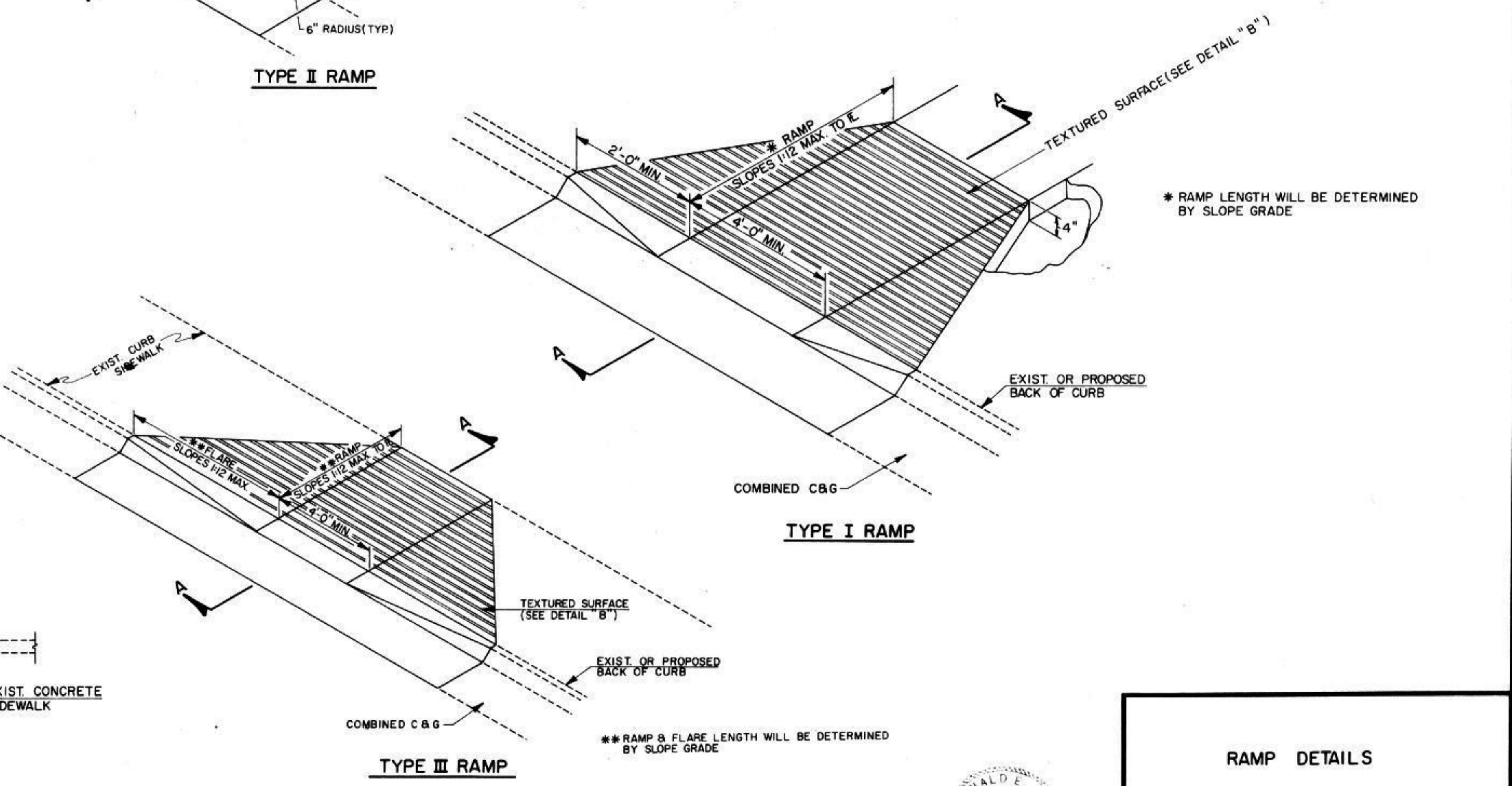
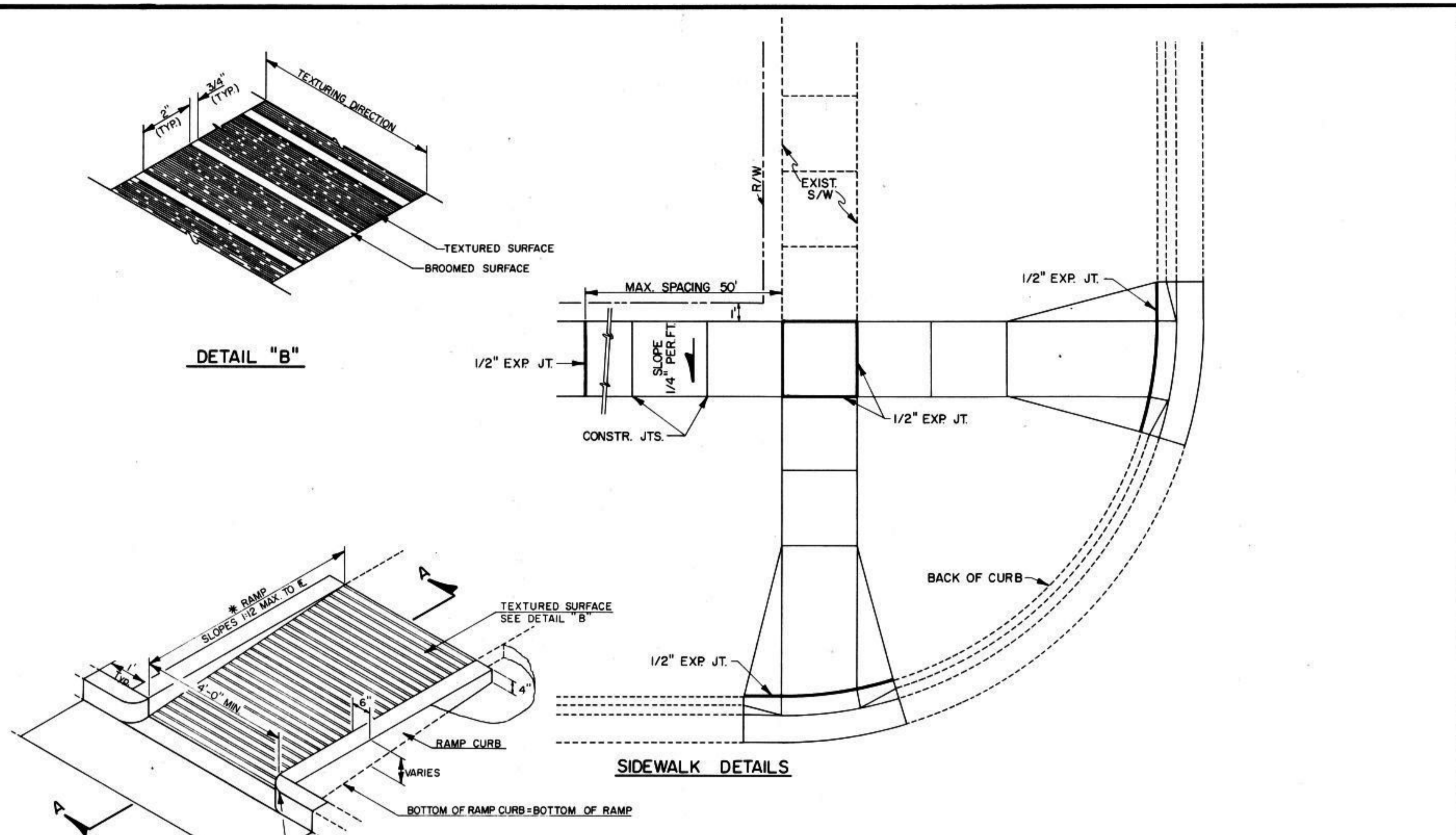
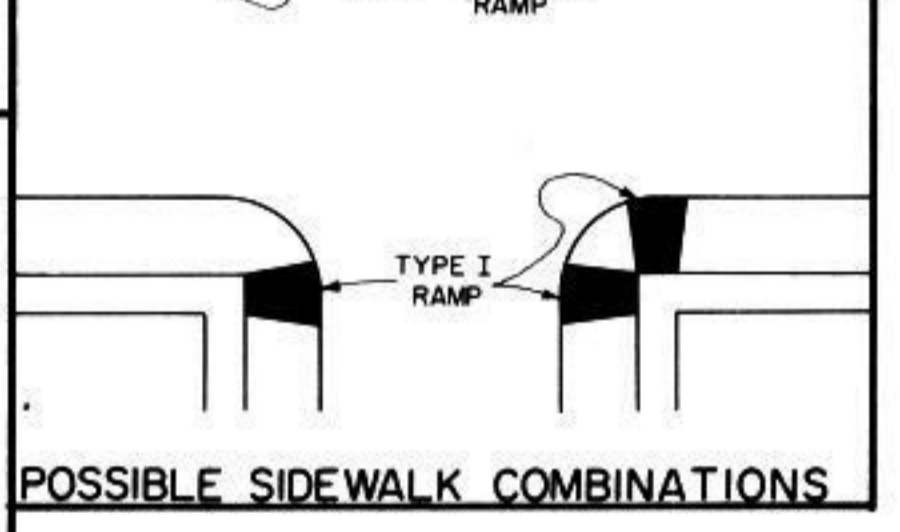
TYPICAL INTERSECTION w/CURB S/W



TYPICAL INTERSECTION w/R S/W



POSSIBLE SIDEWALK COMBINATIONS



* EXTRA THICKNESS SUBSIDIARY

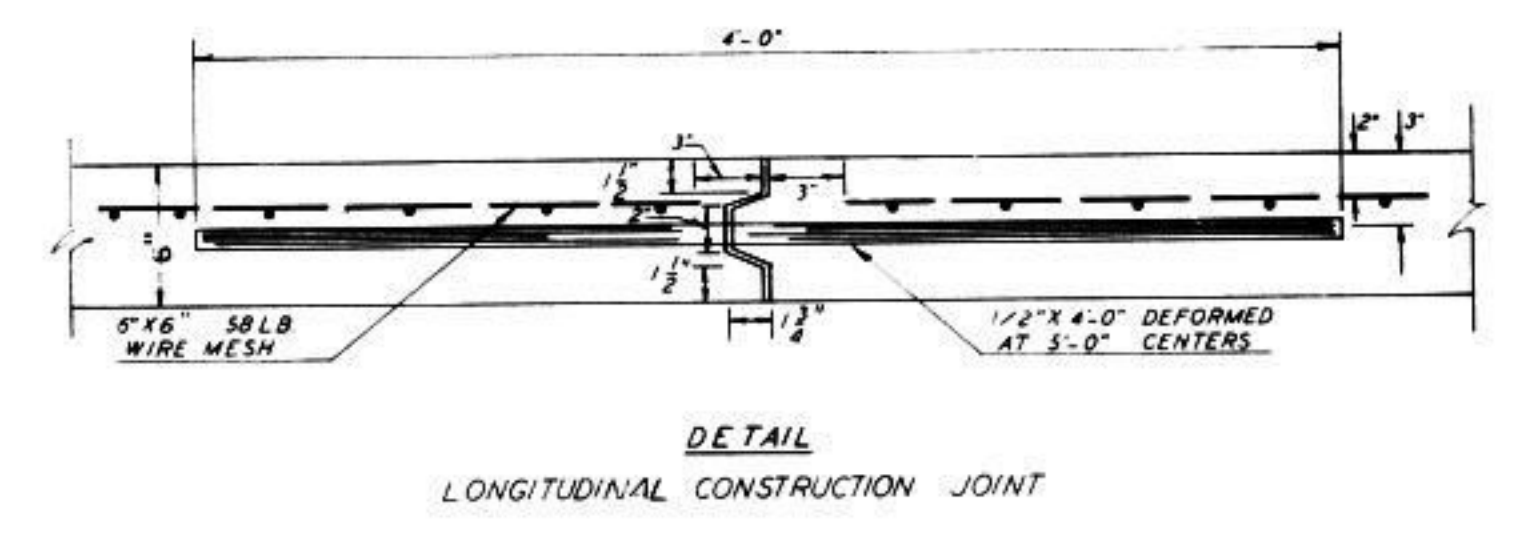
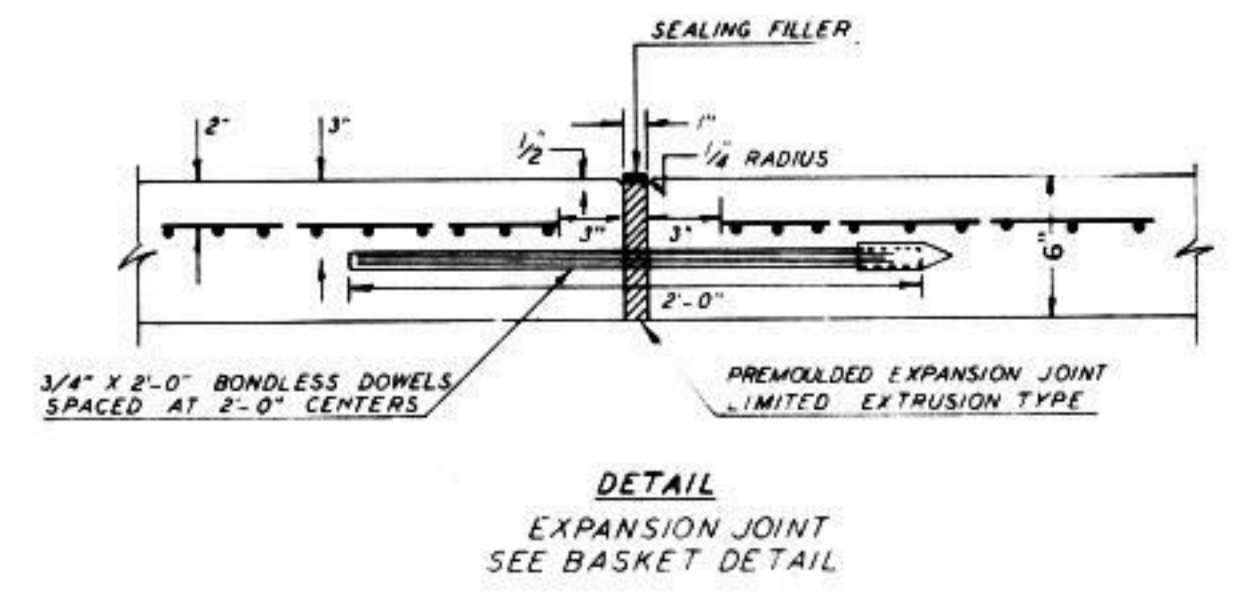
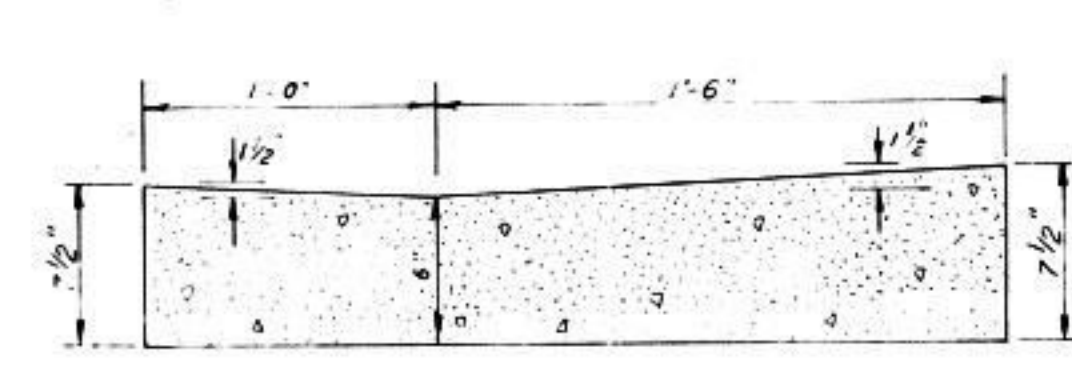
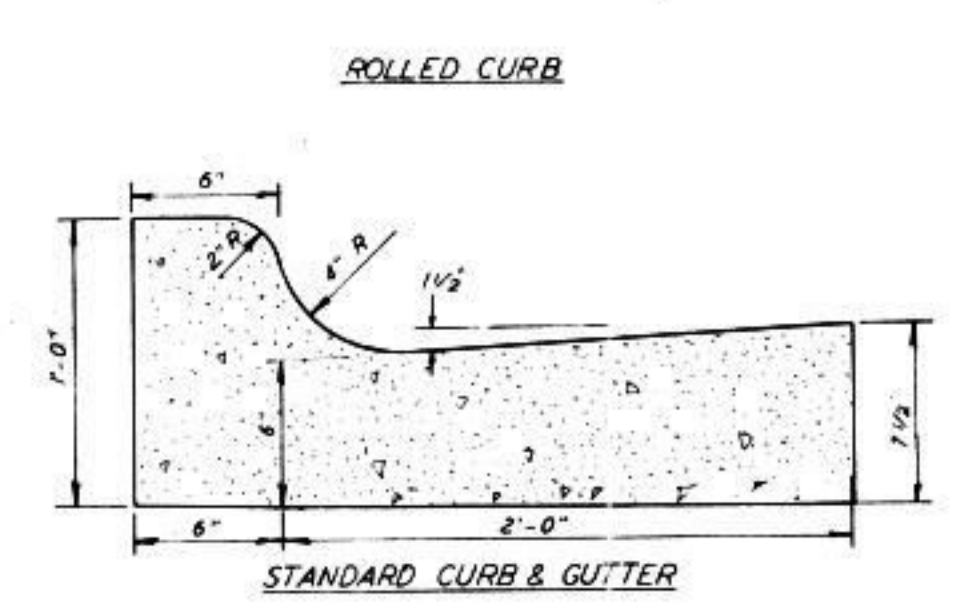
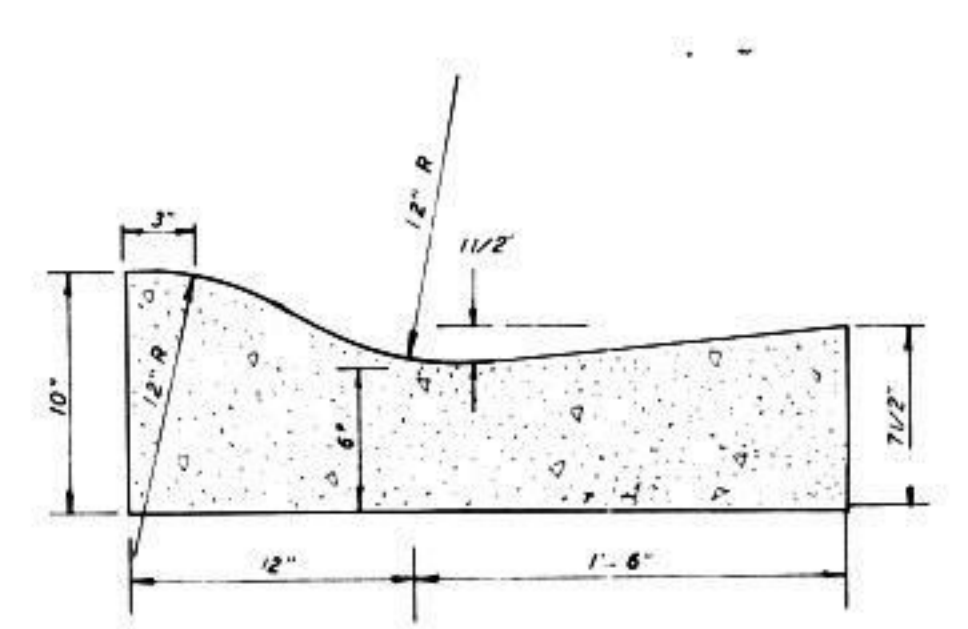
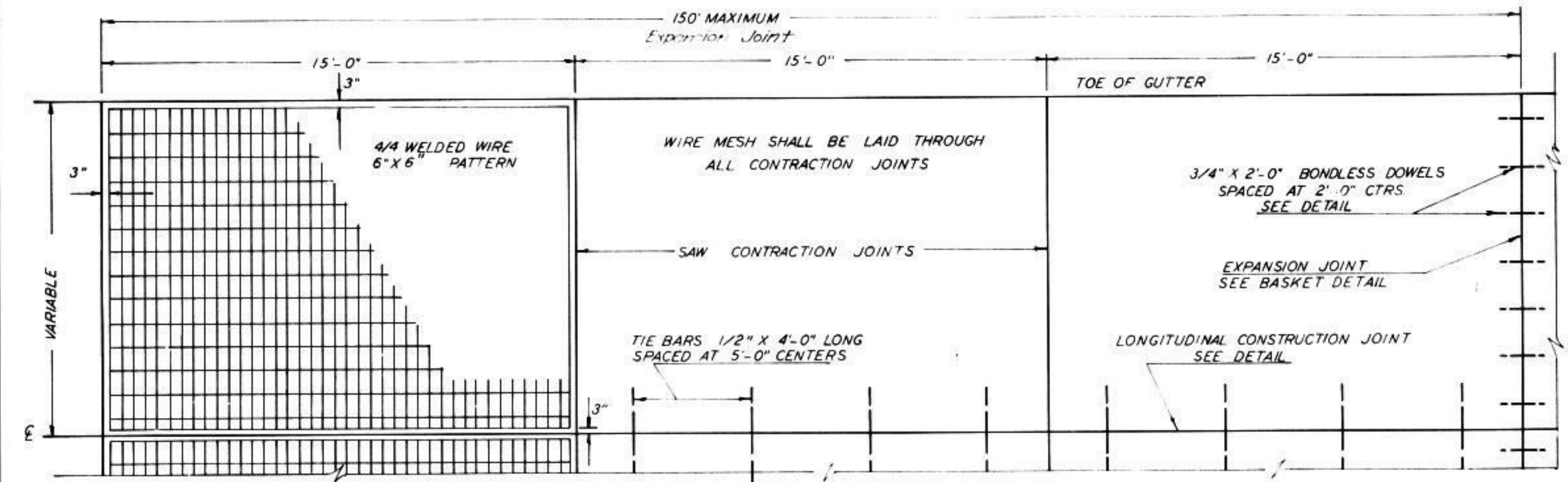
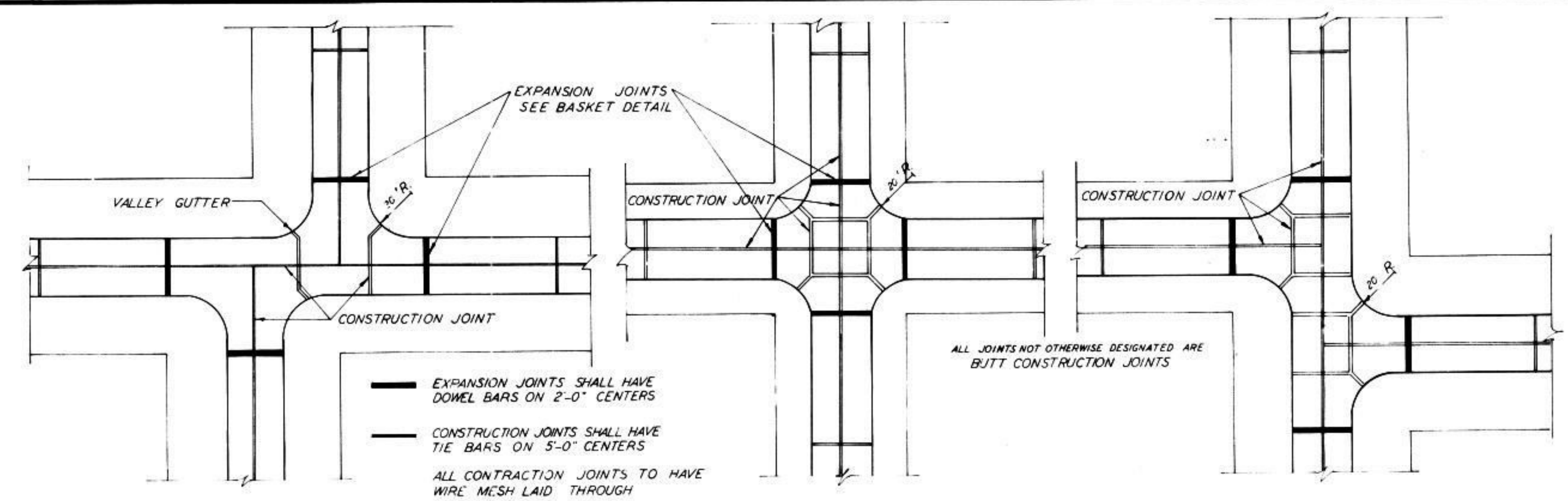
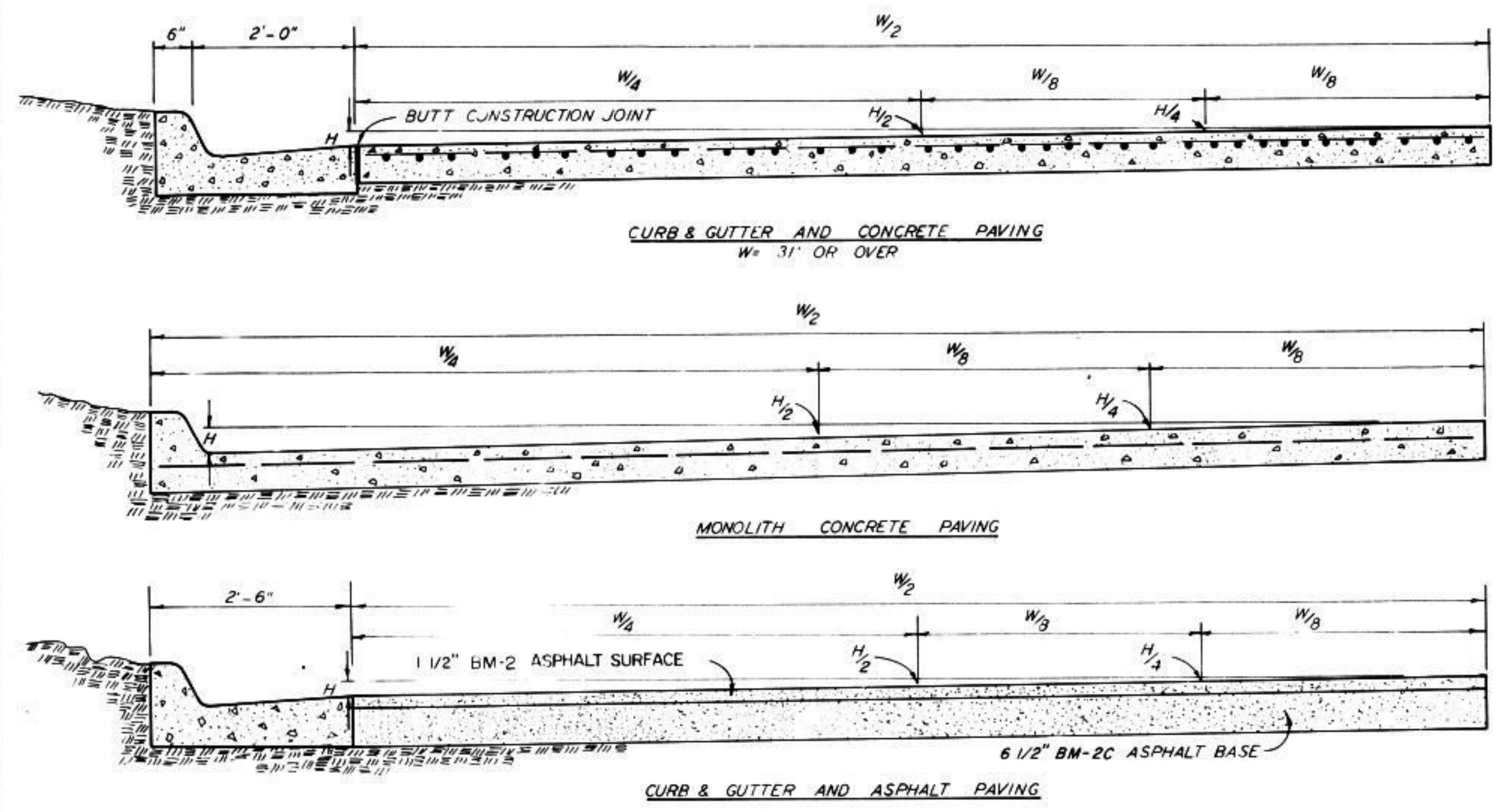


RAMP DETAILS

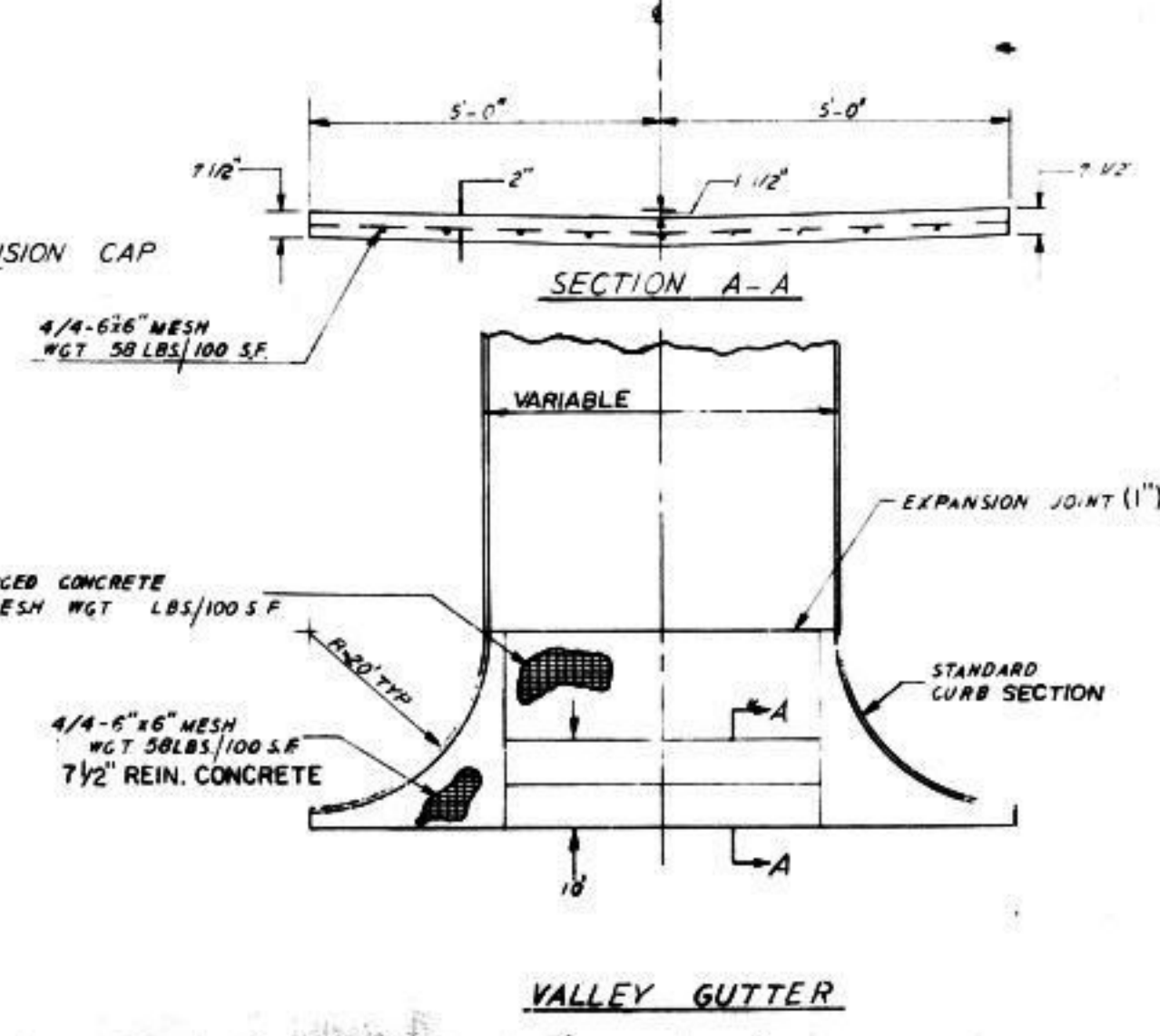
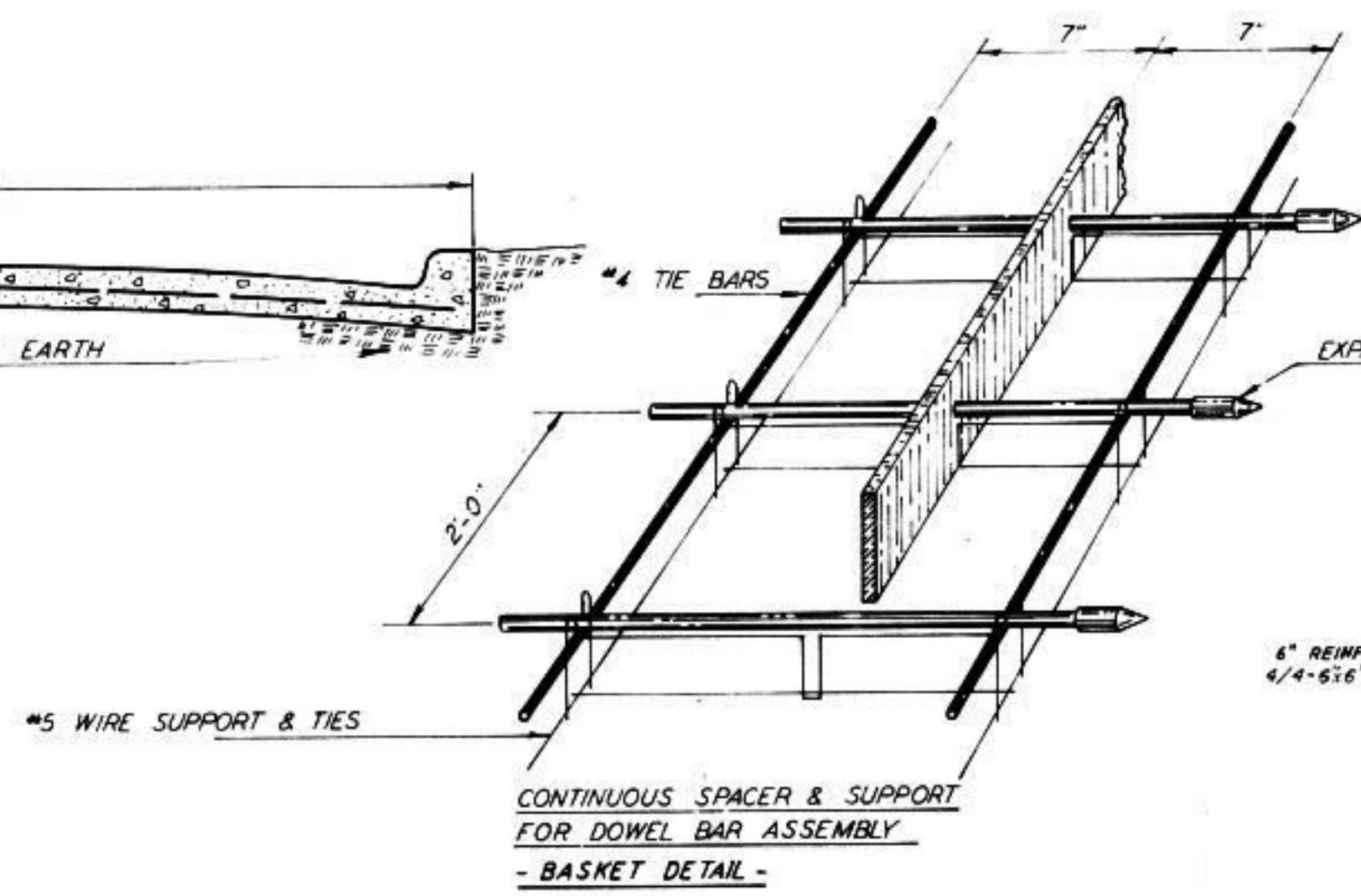
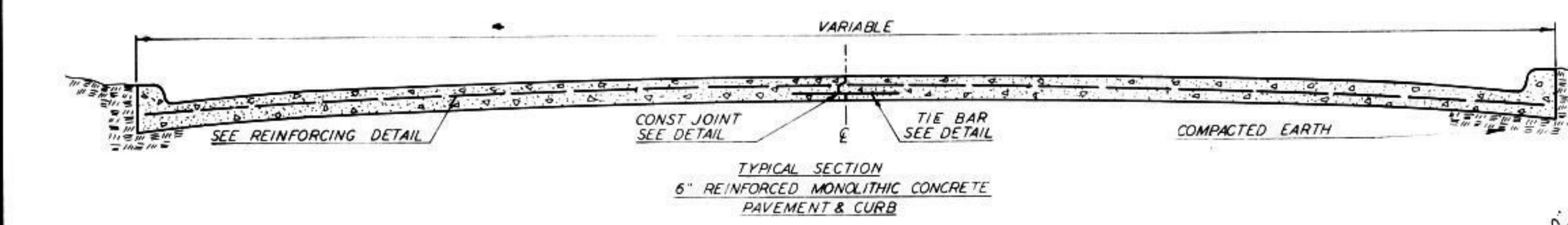
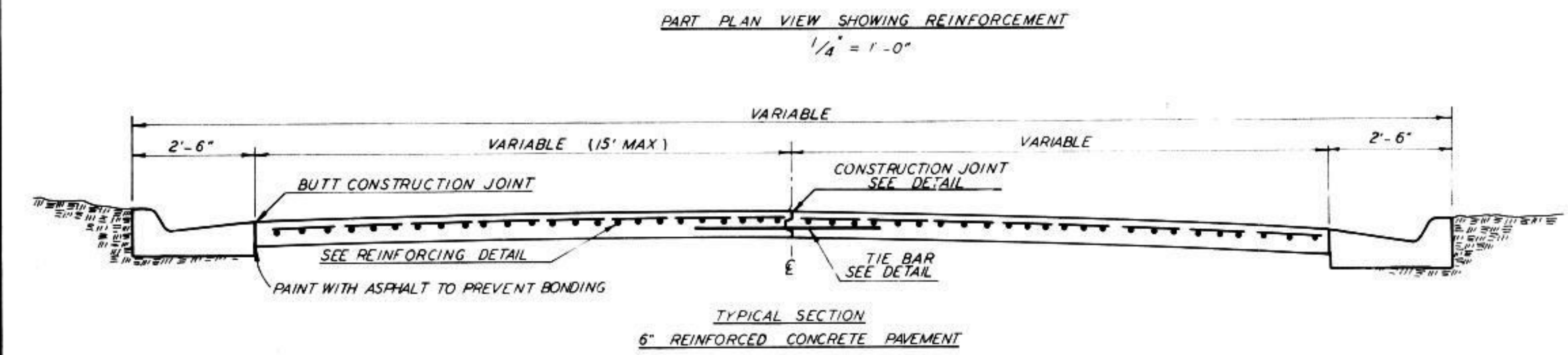
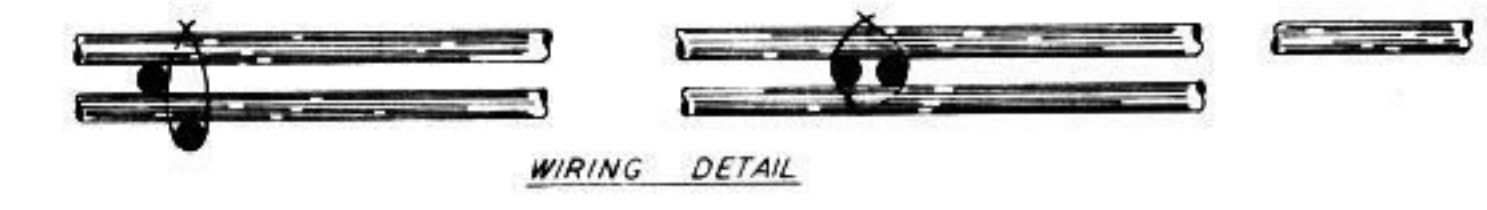
CITY OF SALINA
Engineering Department
300 W. ASH SALINA, KANSAS

Date 5-8-92 Project No. 91-848 Sh. 24 of 25

CHECKED BY DATE
 TRACED BY DATE
 DRAWN BY DATE
 PLOTTED BY DATE
 PROFILE BY DATE
 PRELIM. BY DATE



NOTE
 THE LAP SHALL EXTEND BEYOND THE FIRST TRANSVERSE WIRE OF EACH SHEET. THE SHEET SHALL BE WIRED SECURELY AT THE EDGES AND AT INTERVALS NOT TO EXCEED 30\"/>



CROWN VARIATIONS					
ASPHALT		CONCRETE		MONOLITHIC	
WIDTH (W)	CROWN (H)	WIDTH (W)	CROWN (H)	WIDTH (W)	CROWN (H)
24'	0.33'	24'	0.33'	29'	0.45'
26'	0.35'	26'	0.35'	31'	0.47'
28'	0.38'	28'	0.38'	33'	0.50'
30'	0.39'	30'	0.39'	35'	0.51'
32'	0.40'	32'	0.40'	37'	0.52'
34'	0.41'	34'	0.41'	39'	0.53'
36'	0.42'	36'	0.42'	41'	0.54'
38'	0.43'	38'	0.43'	43'	0.55'
40'	0.44'	40'	0.44'	45'	0.56'
44'	0.46'	44'	0.46'	49'	0.58'
48'	0.48'	48'	0.48'	53'	0.60'

REVISED	DATE
CITY OF SALINA, KANSAS CITY ENGINEER'S OFFICE STANDARD DETAILS PAVEMENT - REINFORCING CONSTRUCTION JOINTS	
DATE 5-8-92	PROJECT NO 91-848 SH 23 OF 25