

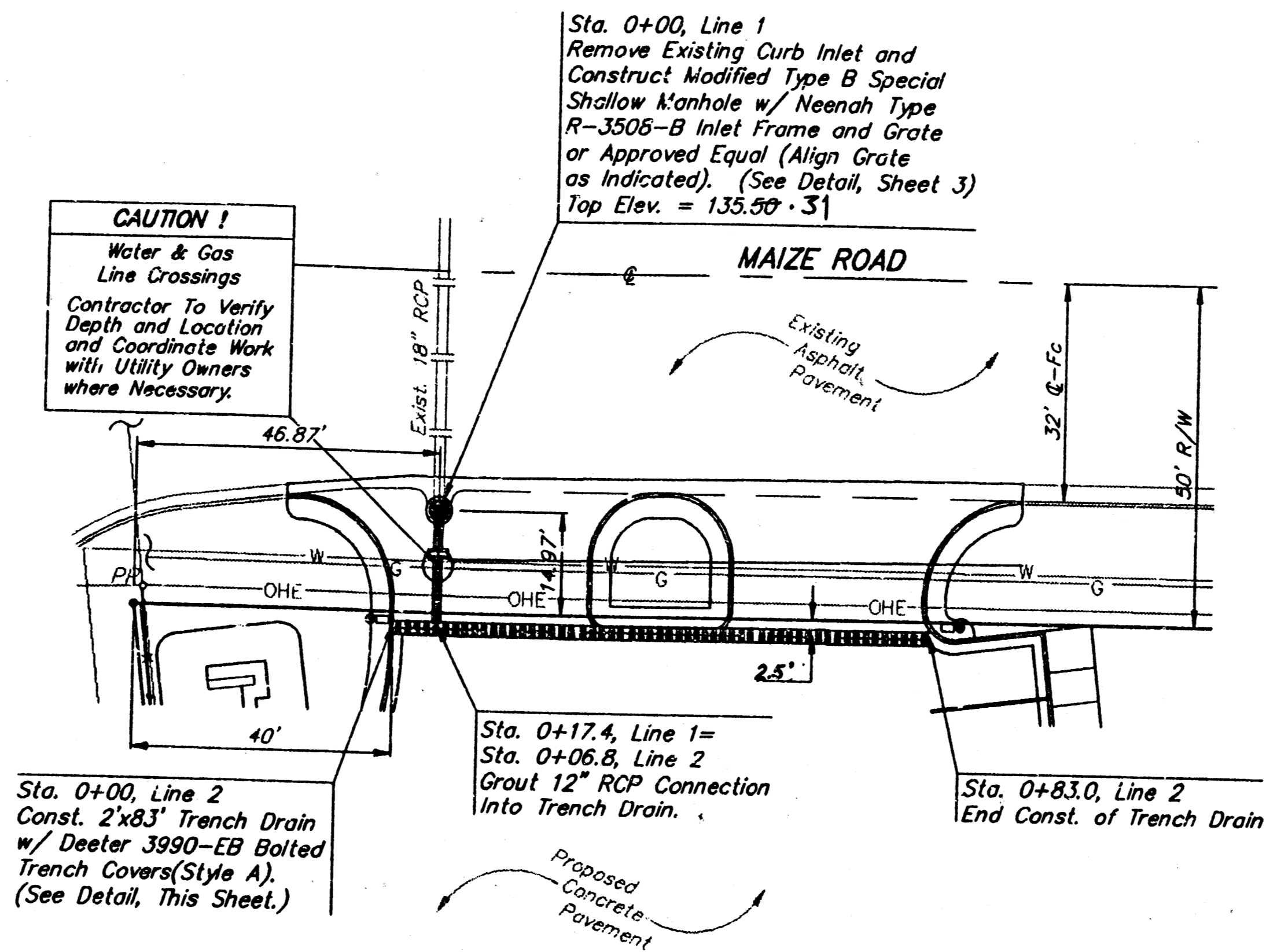
**Benchmarks:**

City of Wichita Benchmark, Top of Hubguard at the Southwest Corner of South Bridge (Eastbound Lane, West End) 1/4 Mile East of Maize Rd. on U.S. 54 Hwy.  
Elev. = 135.29 (City Datum)

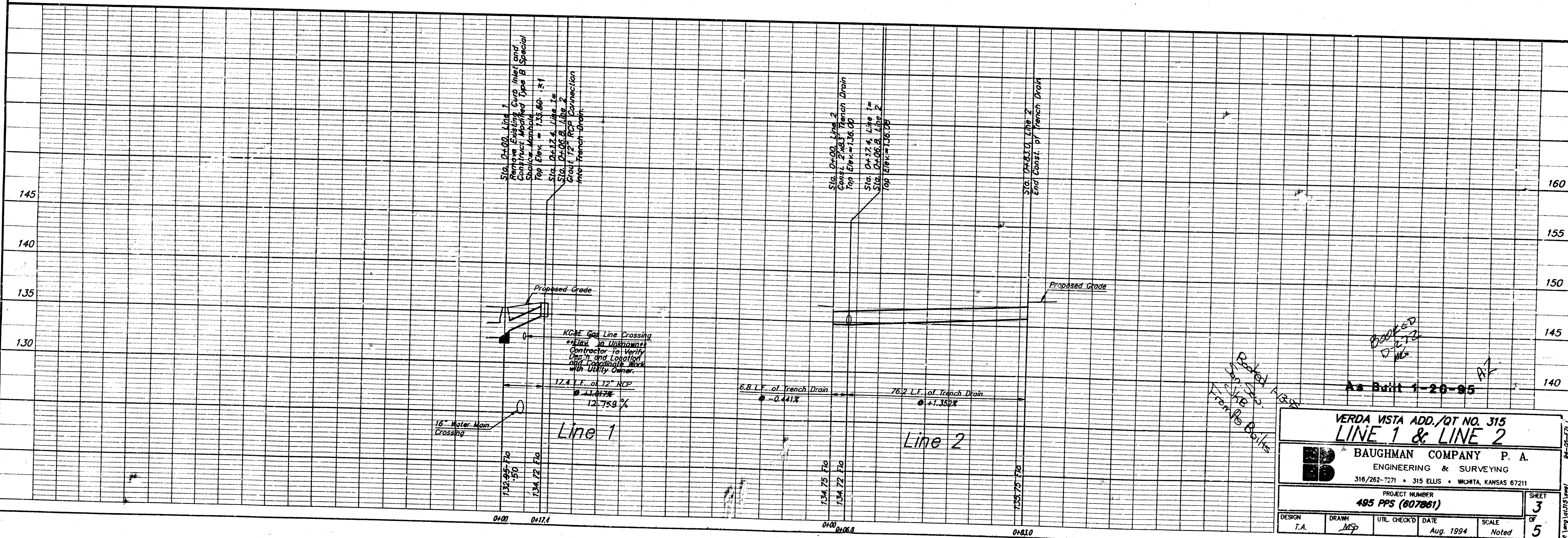
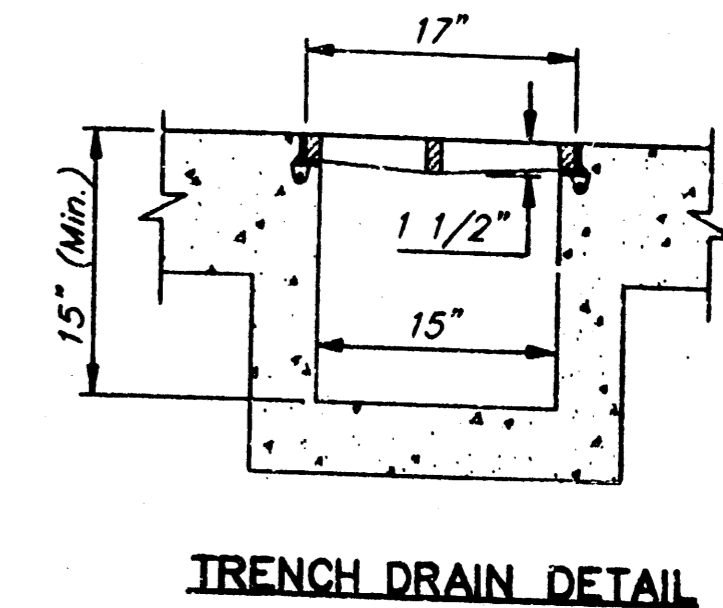
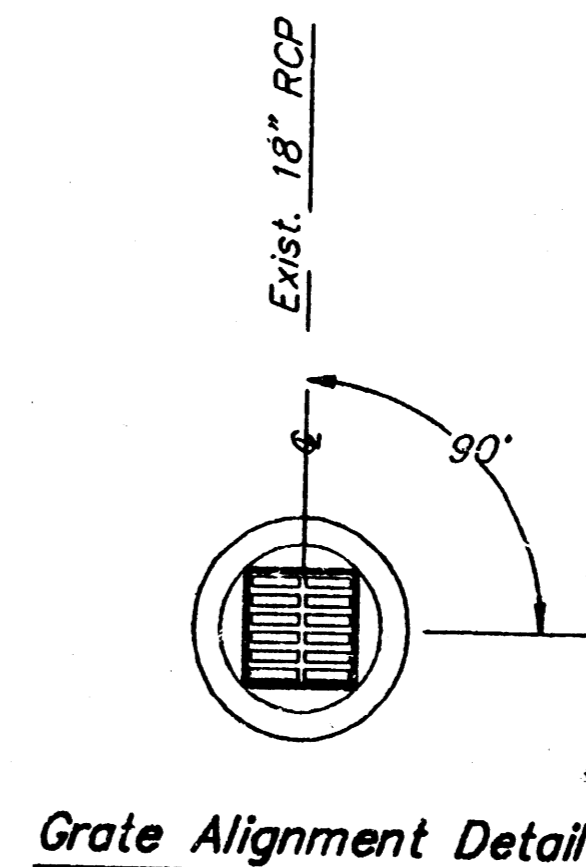
Temp. Benchmark, R.R. Spike in the West Face of HLP on the East Side of Maize Rd. (First Pole South of R.R. Tracks) 200± South of U.S. 54 Hwy.  
Elev. = 136.11 (City Datum)

Contractor To Verify Depth and Location and Coordinate Work with Utility Owner.

**CAUTION!**  
Water & Gas Line Crossings  
Contractor To Verify Depth and Location and Coordinate Work with Utility Owners where Necessary.



Scale: 1" = 20' Horizontal  
1" = 5' Vertical  
• = Iron



As Built 1-20-95  
 BOOPEL  
 D-1212  
 MS  
 Frank Re Bolter  
 11/11/94

VERDA VISTA ADD./QT NO. 315  
**LINE 1 & LINE 2**  
 BAUGHMAN COMPANY P. A.  
 ENGINEERING & SURVEYING  
 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER  
**495 PPS (007861)**

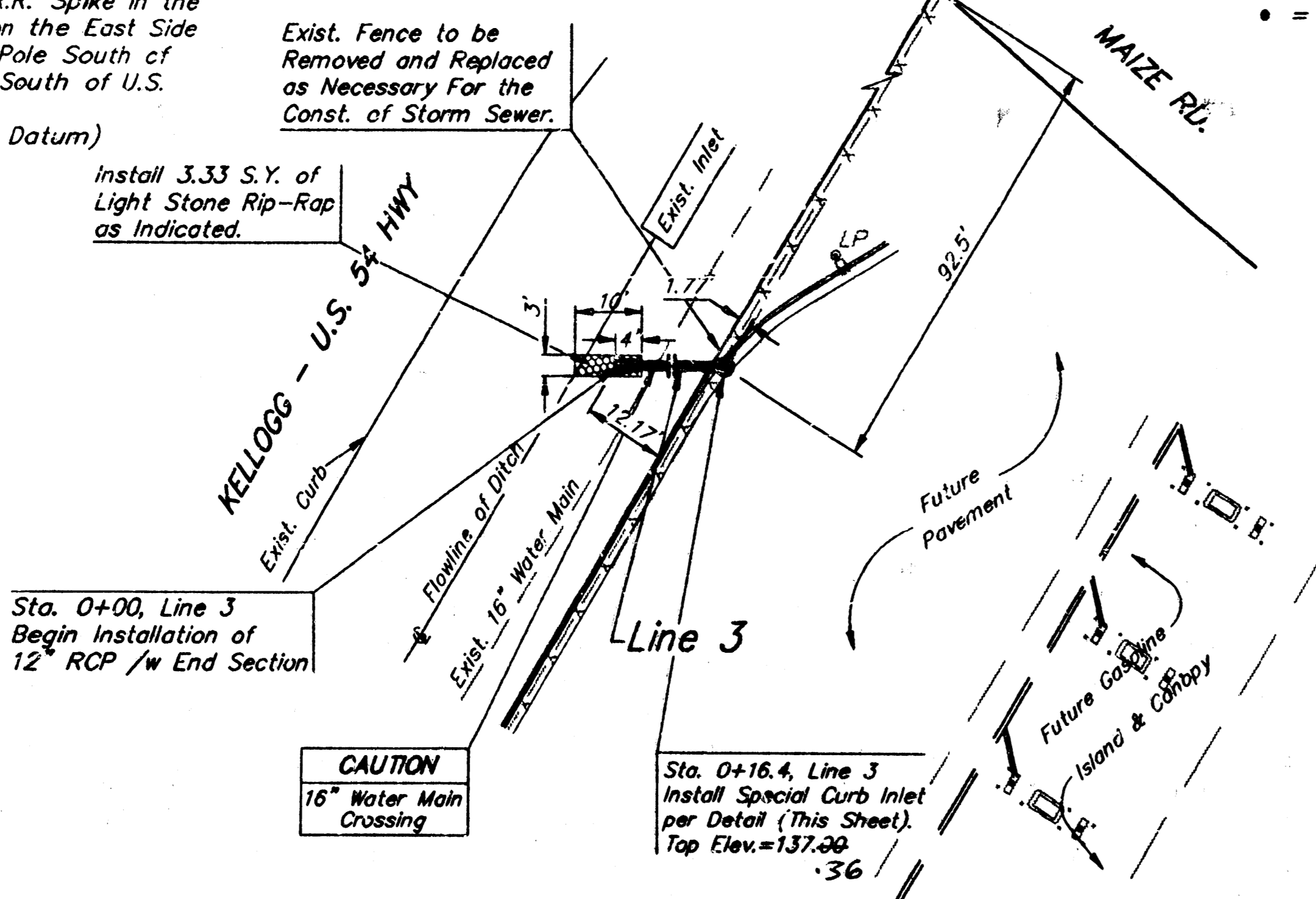
DESIGN: T.A. DRAWN: MSP UTIL. CHECK'D: DATE: Aug. 1994 SCALE: Noted

SHEET 3 OF 5

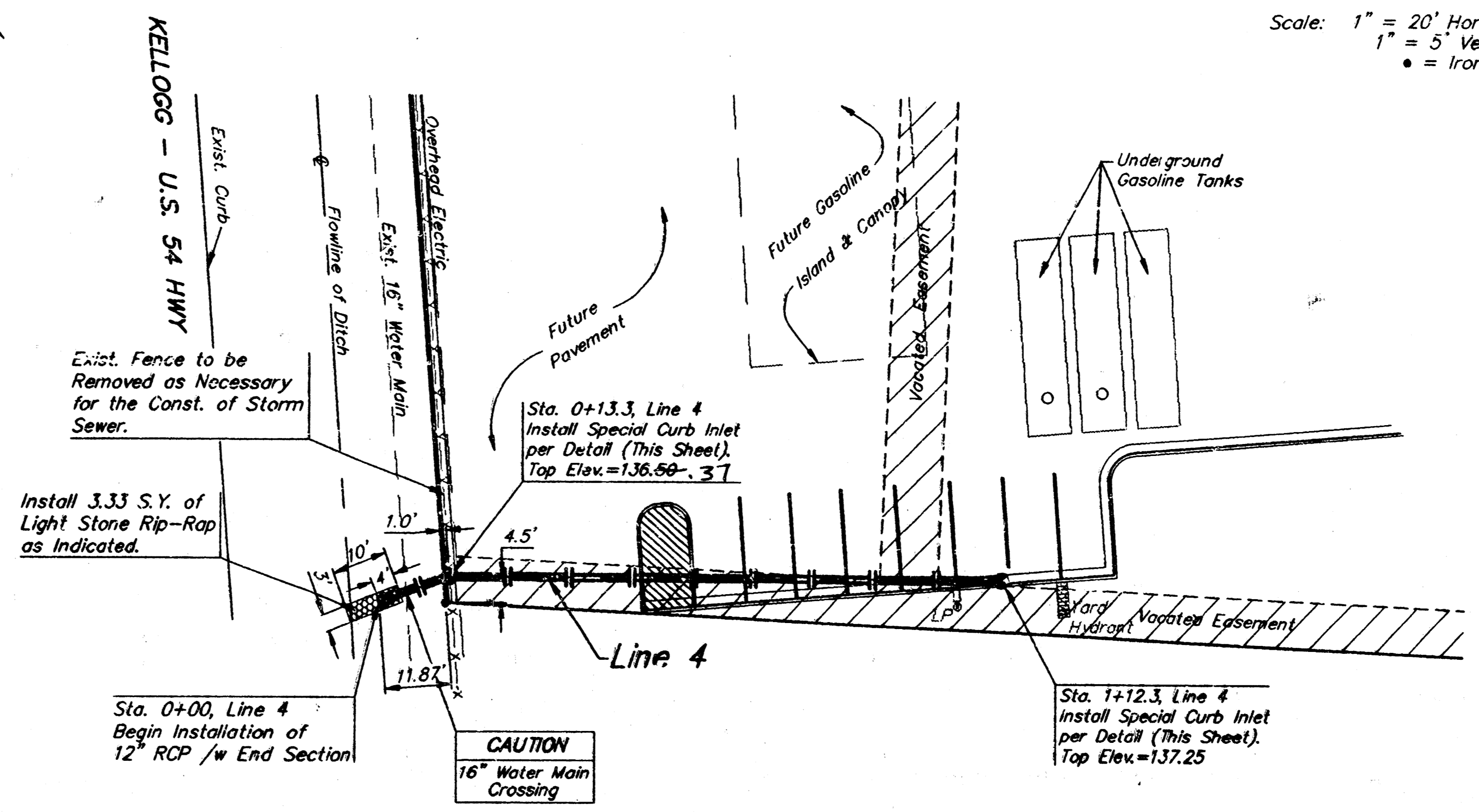
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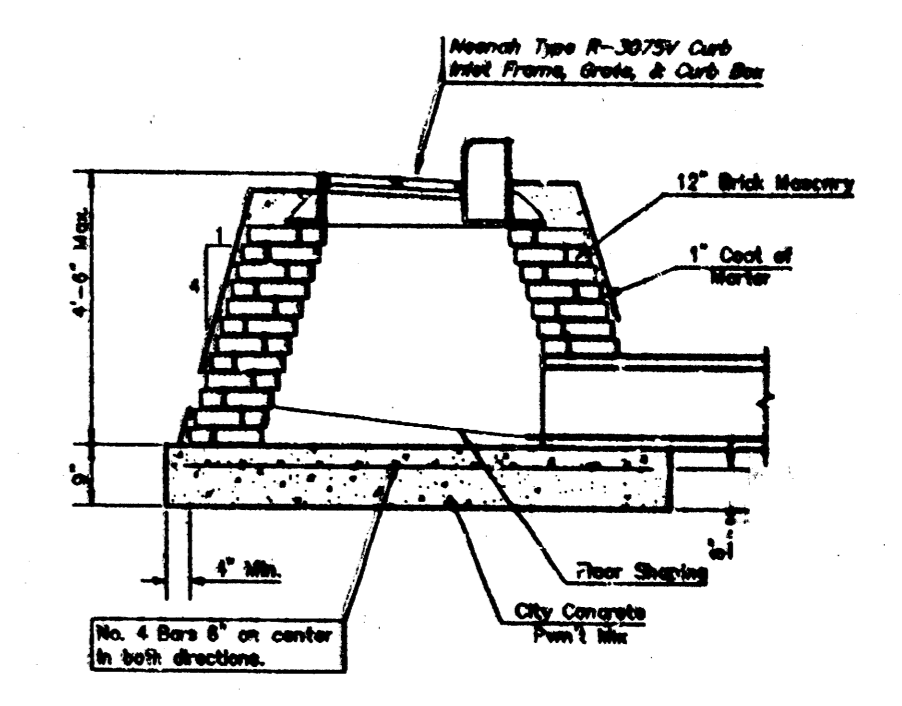


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● = Iron

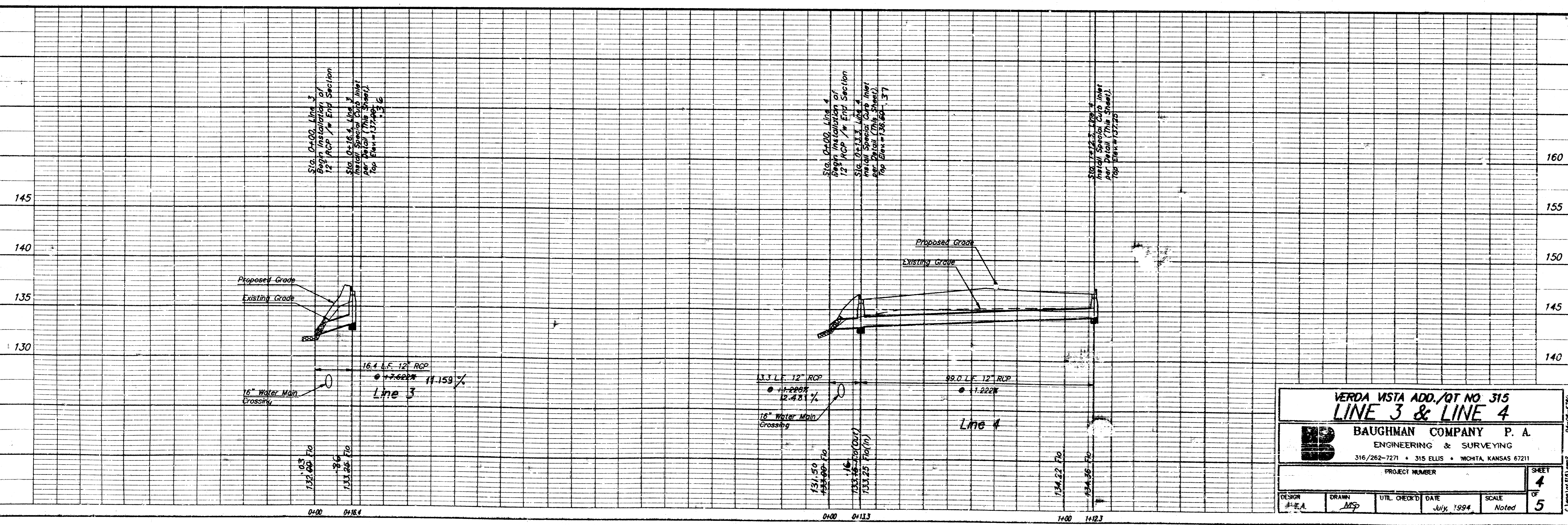


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1" = 5' Vertical  
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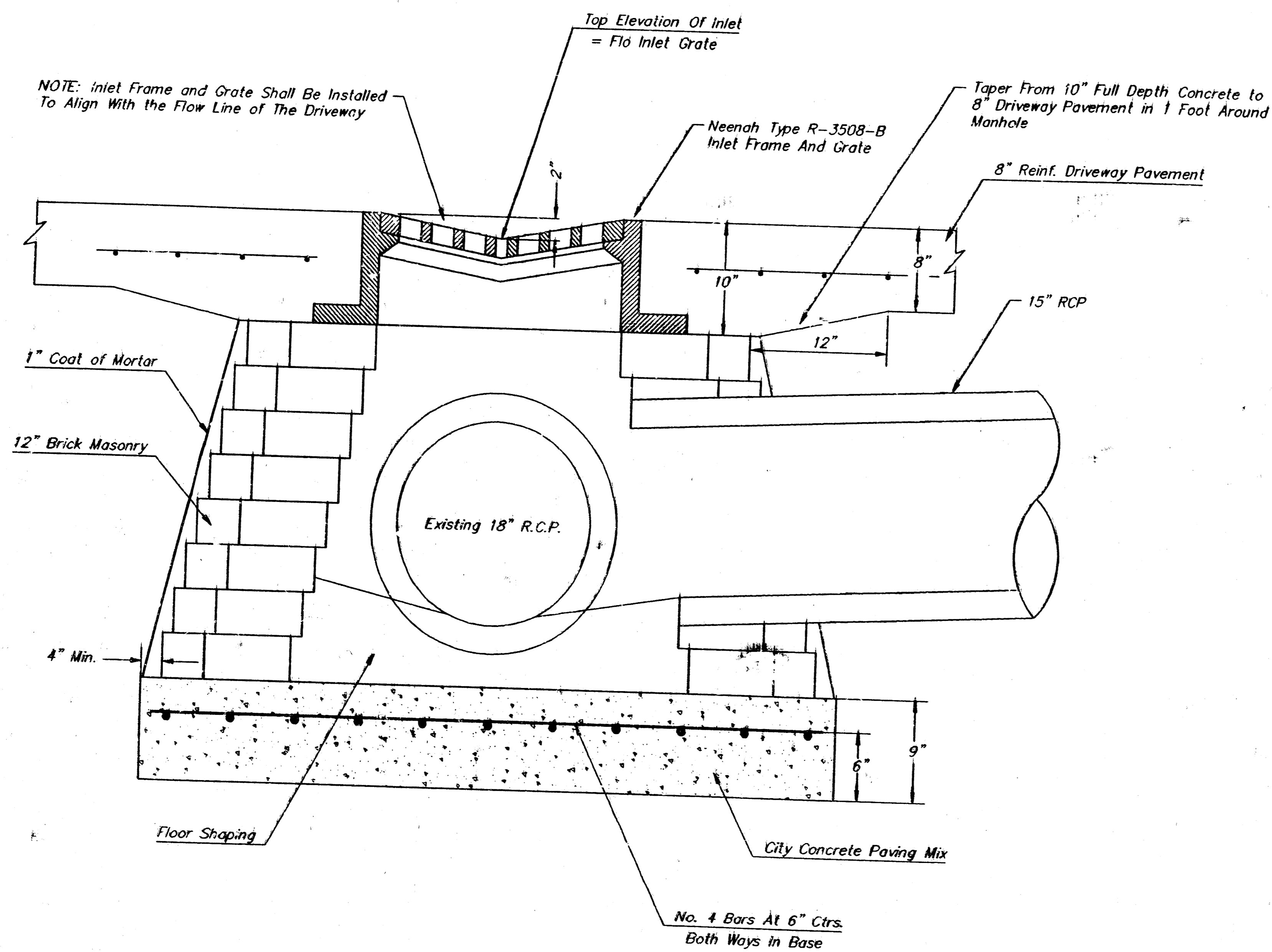
**NOTE:**  
The Work Shown On This Page Shall Require The Approval of The Kansas Dept. of Transportation Approval To Be Obtained By The Contractor.



MODIFIED SPECIAL SHALLOW TYPE "B" MANHOLE



VERDA WSTA ADD./QT NO 315			
<b>LINE 3 &amp; LINE 4</b>			
BAUGHMAN COMPANY P. A.			
ENGINEERING & SURVEYING			
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			
DESIGN	DRAWN	UTIL. CHECKED	DATE
J.E.A.	MSP		July, 1994
SCALE		Noted	
SHEET			4
OF			5



(NTS)

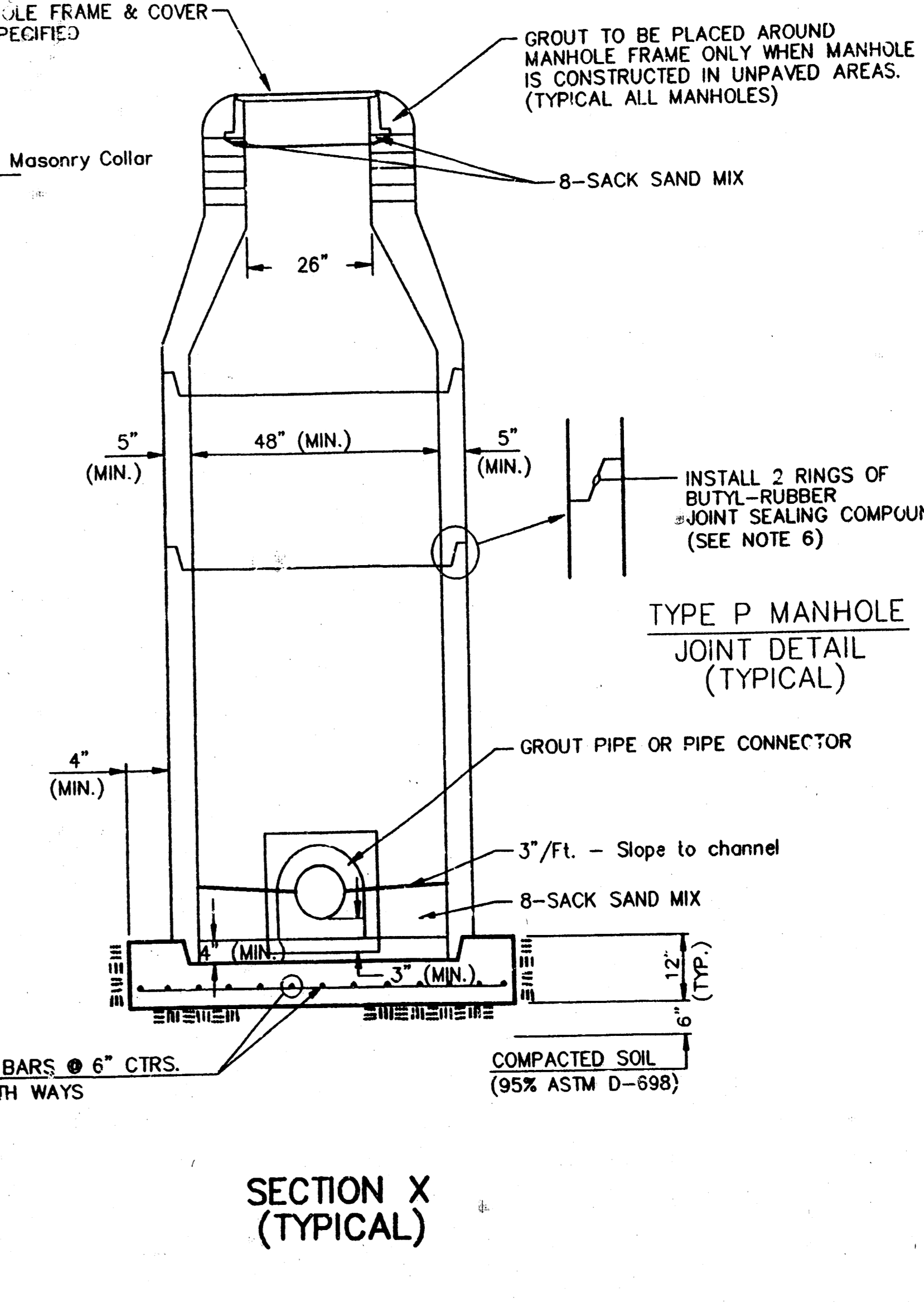
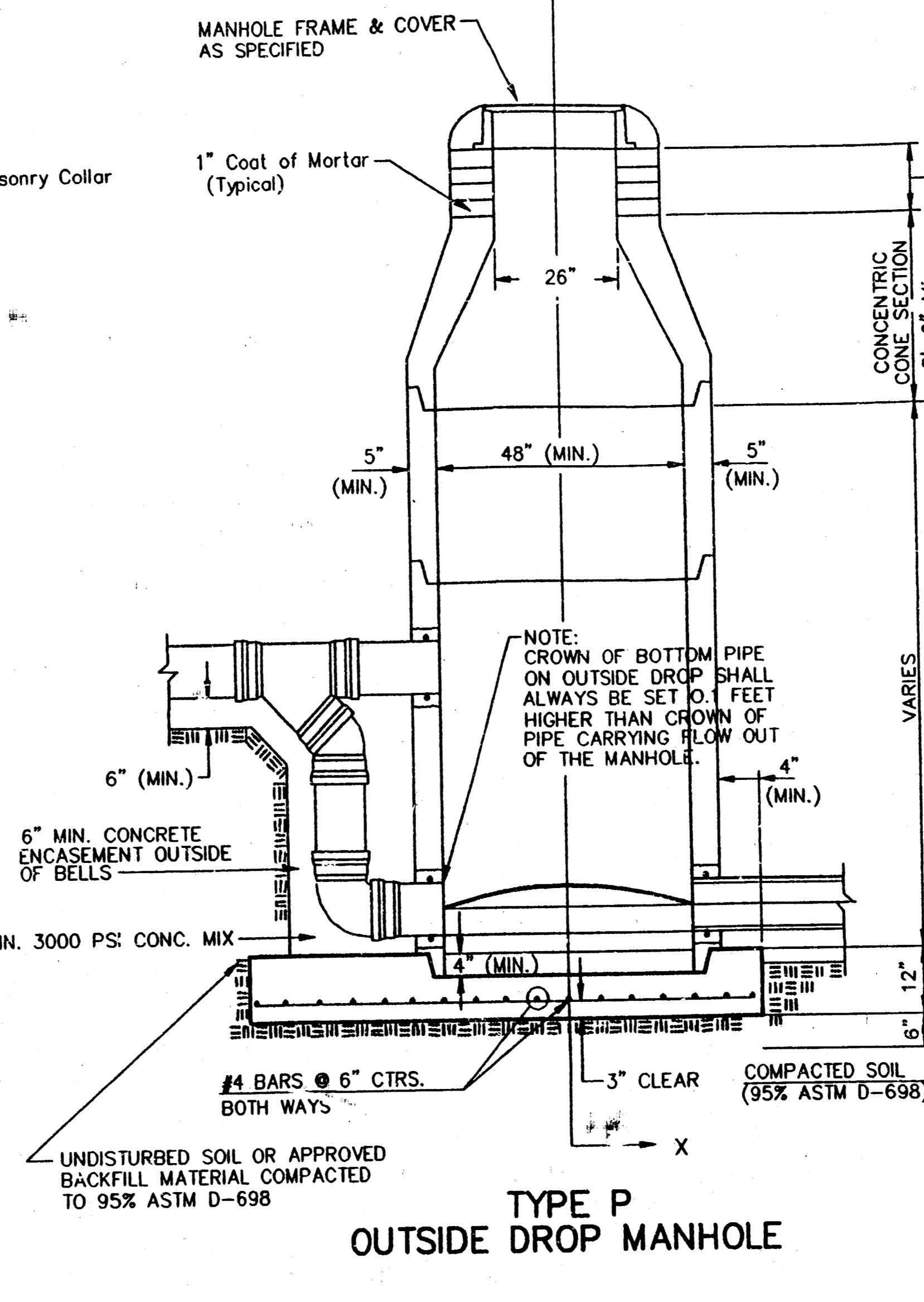
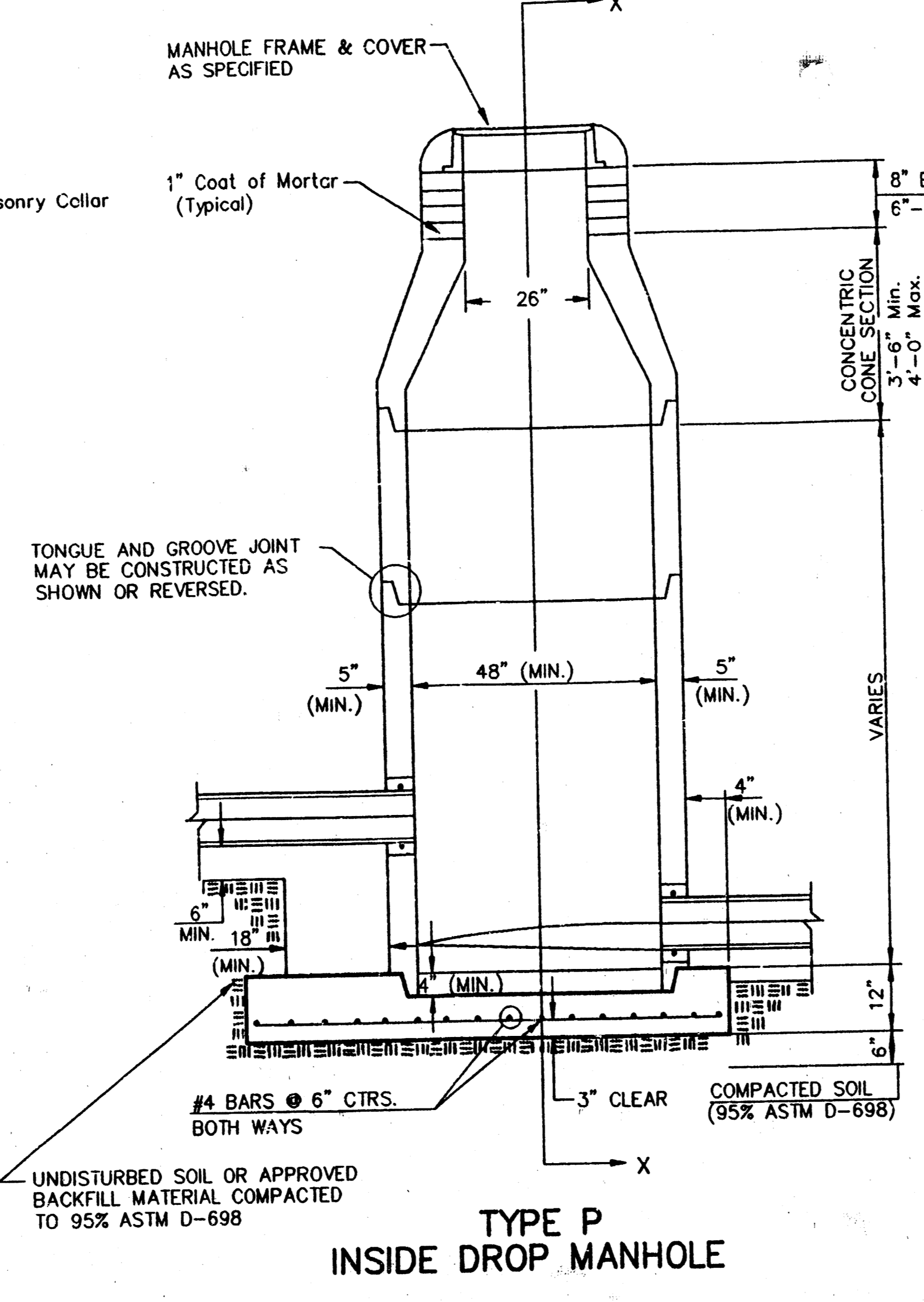
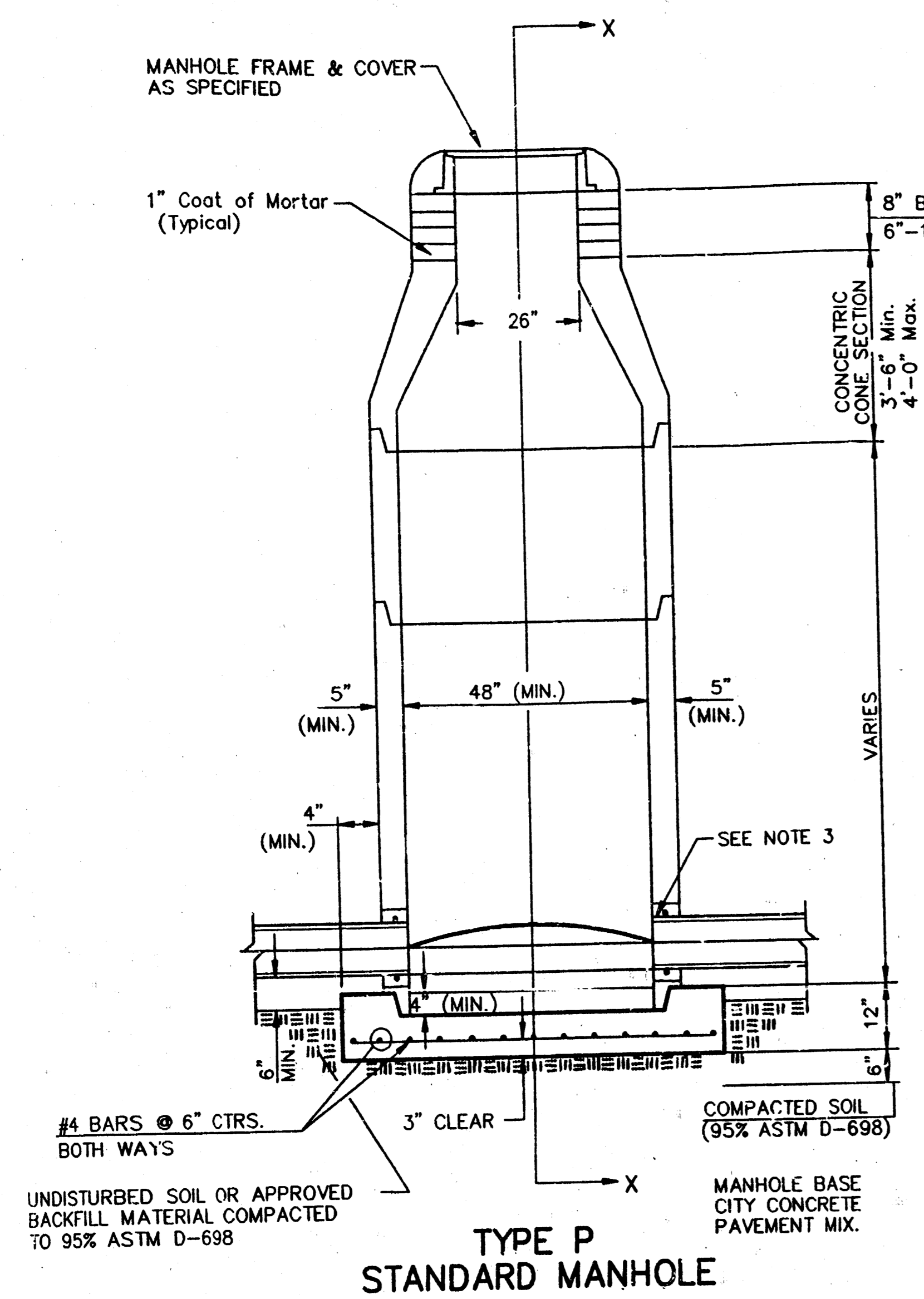
### GENERAL NOTES

- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVEMENT SPECIFICATIONS USING CITY CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6 INCHES ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

<b>MODIFIED TYPE B SPECIAL SHALLOW MANHOLE W/ INLET FRAME AND GRATE</b>				
<b>BAUGHMAN COMPANY P. A.</b> ENGINEERING & SURVEYING 316/262-7271 & 315 ELLIS & WICHITA, KANSAS 67211				REV.
PROJECT NUMBER <b>495 HPS (607861)</b>				SHEET 5
DESIGN T.A.	DRAWN ASP	APPROVED	DATE Aug. 1994	SCALE None
				OF 5



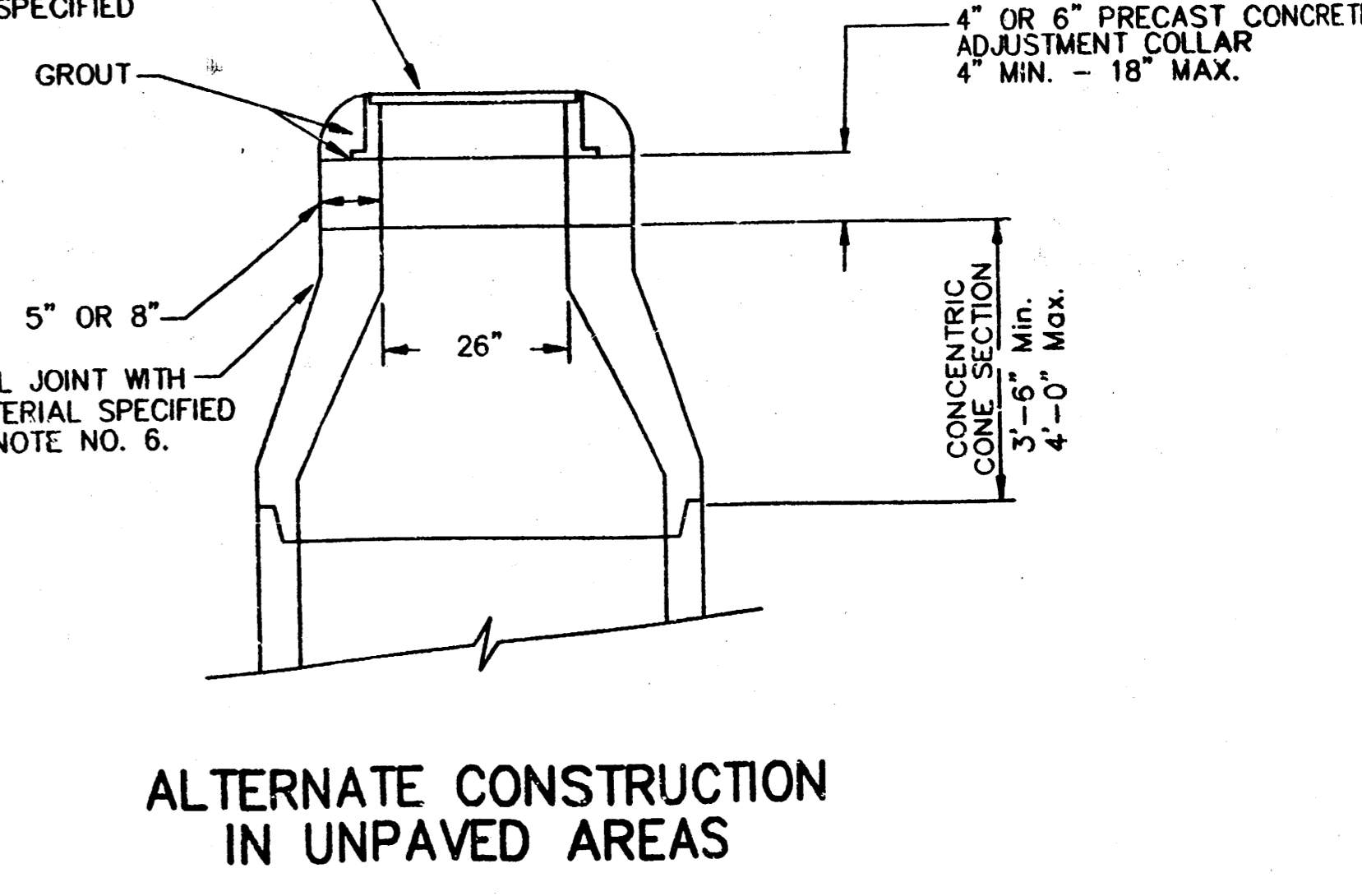
# SEWER APPURTENANCES DETAILS



- GENERAL NOTES**  
**PRECAST MANHOLE NOTES**
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
  - NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
  - APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
  - ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.).
  - EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
  - JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
  - PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
  - TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
  - LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
  - MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24\"/>

- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6\"/>

- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12\"/>



**CITY OF WICHITA, KANSAS**  
**STANDARD MANHOLE DETAILS**  
**SEWER APPURTENANCES DETAILS**

**BAUGHMAN COMPANY P. A.**  
ENGINEERING & SURVEYING  
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER  
**495 PPS (607861)**

DESIGN	DRAWN	APPROVED	DATE	SCALE	REV.
					NOV. 1993
					SHEET 2
					OF 5