

SRB

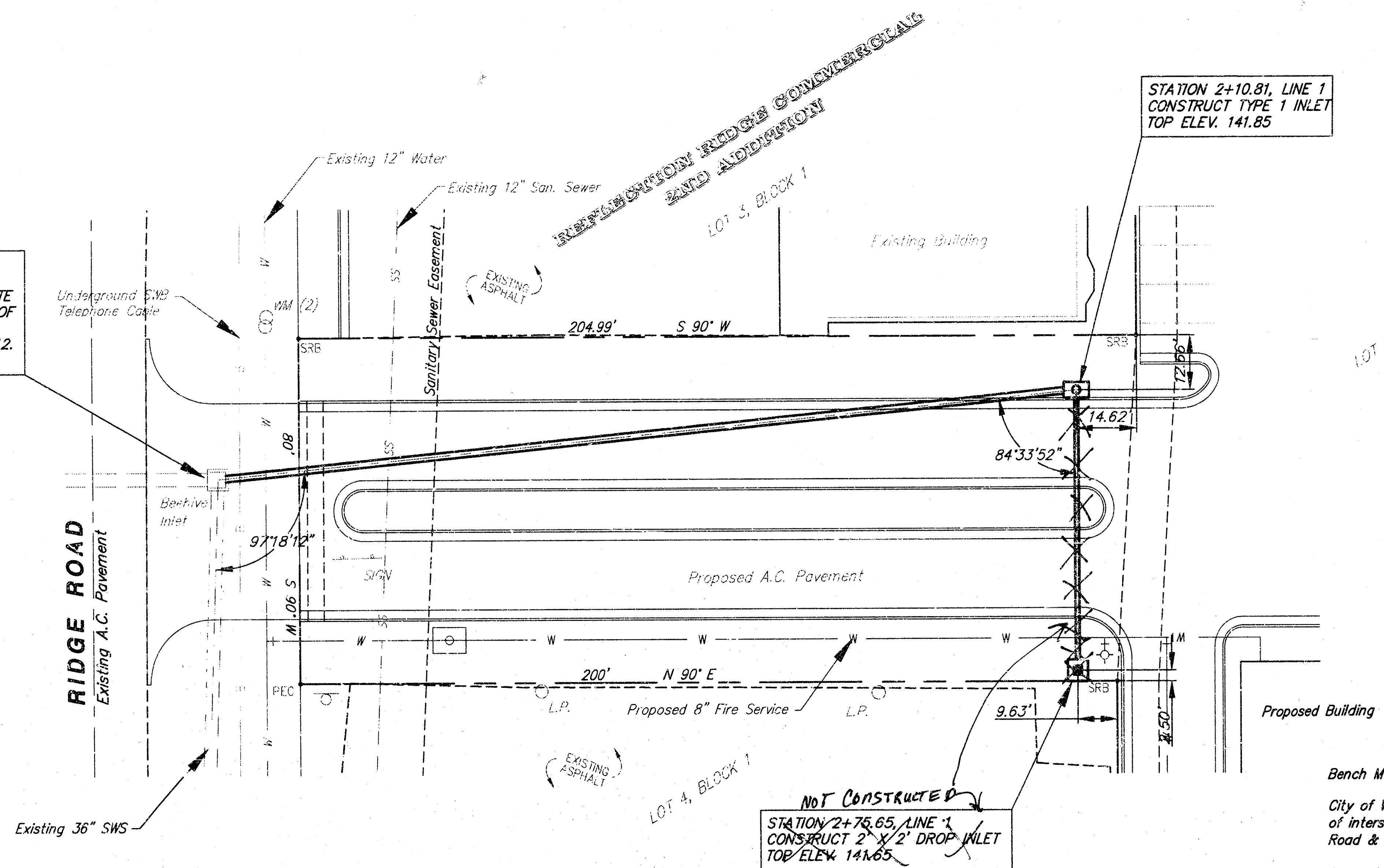
SCALE
1" = 20' Plan
1" = 5' Profile (Vert.)

DRAINAGE CALCULATIONS

Inlet Sta. 2+75.65
Area = 0.05 acres
 $C_s = 0.68$
 $Q_{100} = 0.76$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 0.2$ cfs
 $Q_{100} = 0.3$ cfs

Inlet Sta. 2+10.81
Area = 1.66 acres
 $C_s = 0.87$
 $Q_{100} = 0.89$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 6.6$ cfs
 $Q_{100} = 10.9$ cfs

STATION 0+00, LINE 1
CONNECT TO EXISTING INLET.
REMOVE EXISTING BEEHIVE GRATE
& FRAME. INSTALL STD. CITY OF
WICHITA MH COVER & FRAME.
ADJUST MANHOLE TOP TO 141.12.
BEGIN 18" RCP WEST.



GENERAL NOTES

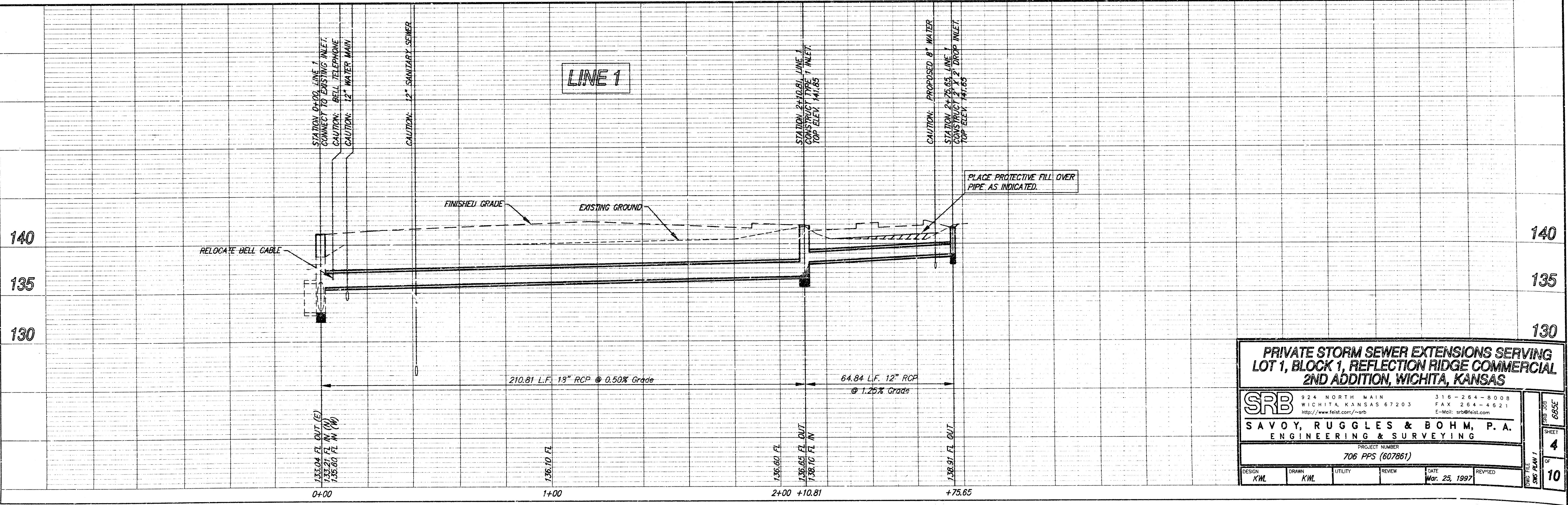
1. All work on this project shall conform to the Standard Specifications for Storm Sewer Construction of the City of Wichita, except as noted.
2. Locating Dimensions are to center of new inlet.
3. All areas within public right-of-way which may be disturbed by Contractor's operations shall be restored in accordance with City of Wichita Administrative Regulation AR-75.
4. The Contractor shall notify Kansas One-Call (687-2470) a minimum of forty-eight (48) hours prior to any excavation.
5. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
6. Traffic will not be affected by construction of this project.
7. The Contractor shall be responsible for cost and coordination for relocation of Southwestern Bell telephone cable.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers VRH 5/7/97
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.



**PRIVATE STORM SEWER EXTENSIONS SERVING
LOT 1, BLOCK 1, REFLECTION RIDGE COMMERCIAL
2ND ADDITION, WICHITA, KANSAS**

SRB
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feist.com/~srb

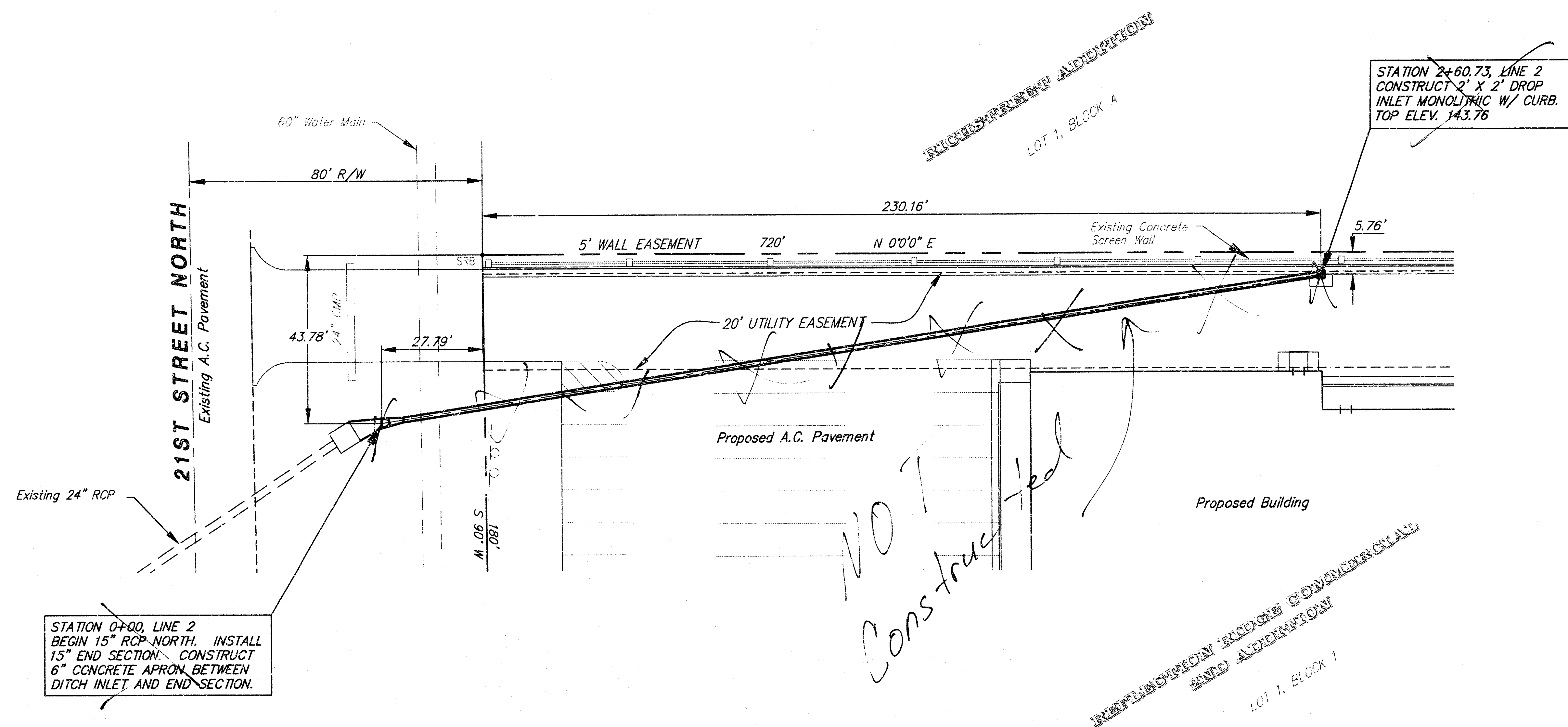
316-264-8008
FAX 264-4621
E-Mail: srbs@feist.com

PROJECT NUMBER
706 PPS (607861)

DESIGN KWL	DRAWN KWL	UTILITY	REVIEW	DATE Mar. 25, 1997	REVISED
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DATE
Mar. 25, 1997

SHEET
4
OF
10



SRB

SCALE
1" = 20' Plan
1" = 5' Profile (Vert.)

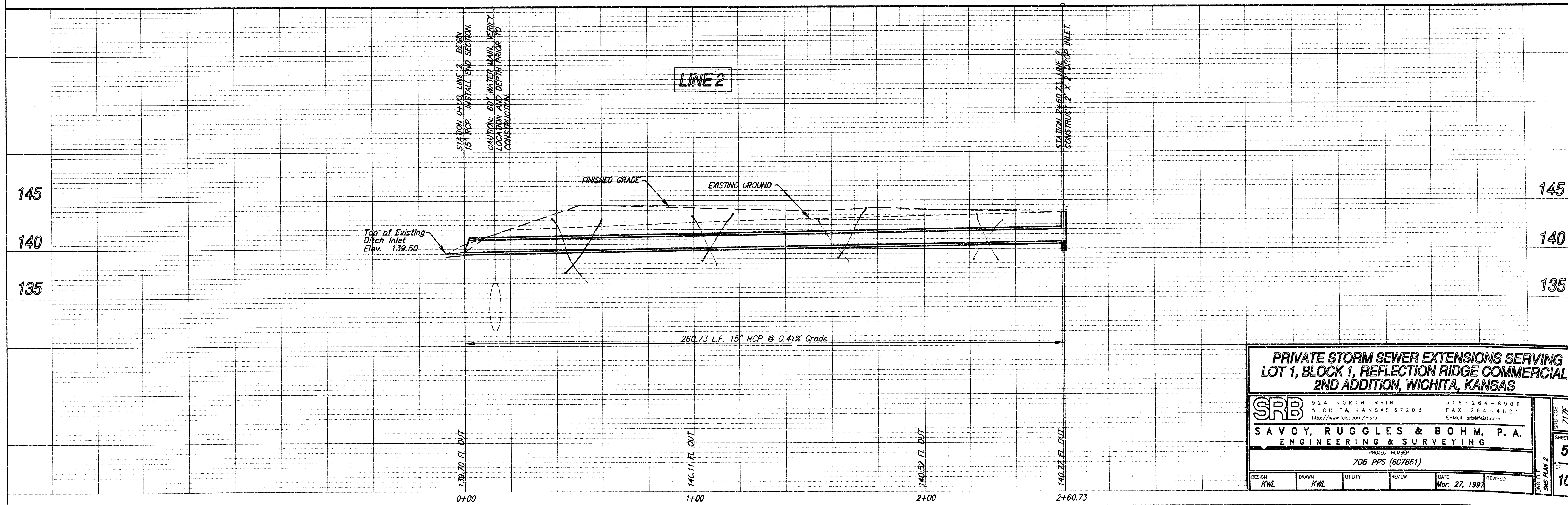
DRAINAGE CALCULATIONS

Area = 0.72 acres
 $C_s = 0.86$
 $C_{100} = 0.91$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 2.8$ cfs
 $Q_{100} = 4.8$ cfs

Bench Mark:

City of Wichita Std. Disc 61' E & 66' N
 of intersection of centerlines, Ridge
 Road & 21st Street North.

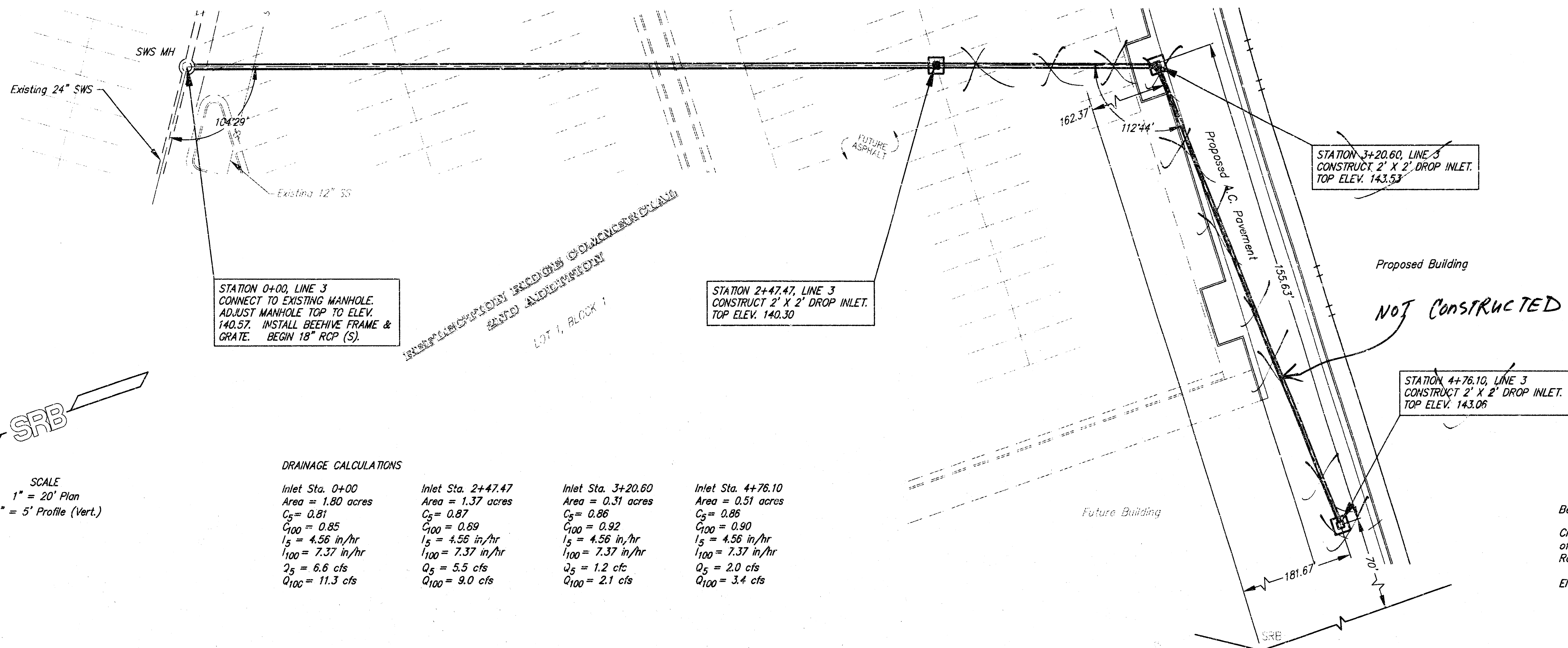
Elev. 142.34 (City Datum)



PRIVATE STORM SEWER EXTENSIONS SERVING
 LOT 1, BLOCK 1, REFLECTION RIDGE COMMERCIAL
 2ND ADDITION, WICHITA, KANSAS

SRB		824 NORTH MAIN WICHITA, KANSAS 67203 http://www.feist.com/~srb		316-264-8088 FAX 264-4621 E-Mail: srbs@feist.com	
SAVOY, RUGGLES & BOHM, P. A. ENGINEERING & SURVEYING					
PROJECT NUMBER 706 PPS (607861)					
DESIGN KWL	DRAWN KWL	UTILITY	REVIEW	DATE Mar. 27, 1999	REVISED

DATE 7/72	SHEET 5	OF 10
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SCALE
1" = 20' Plan
1" = 5' Profile (Vert.)

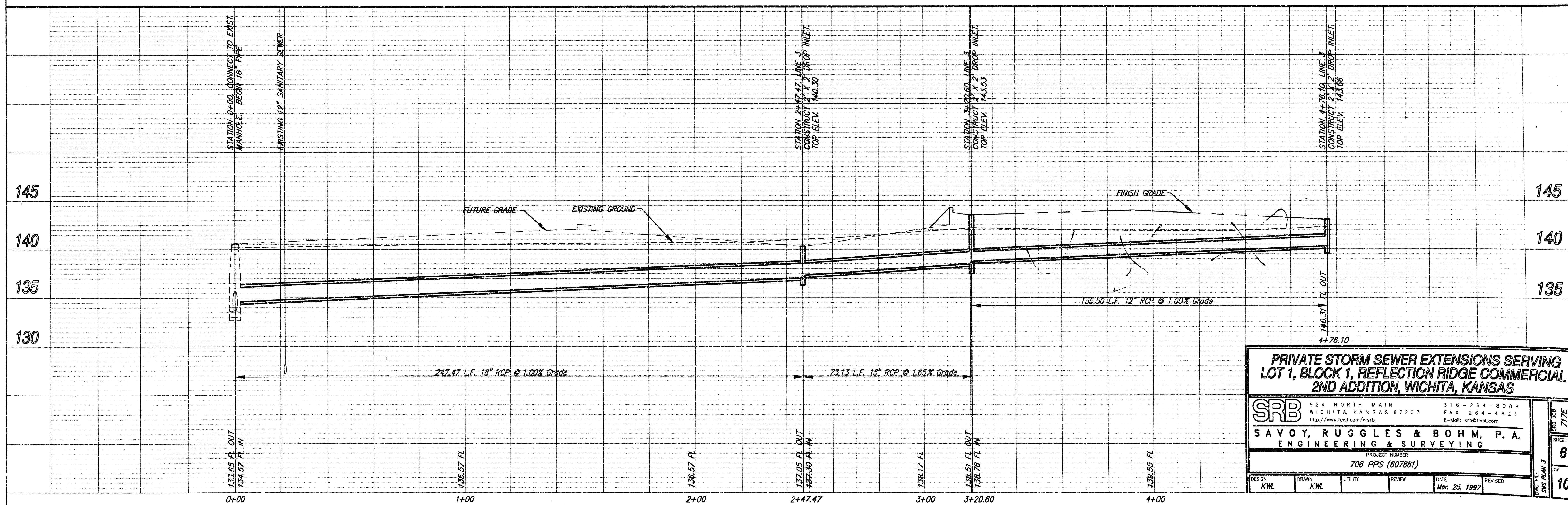
DRAINAGE CALCULATIONS

Inlet Sta. 0+00
Area = 1.80 acres
 $C_s = 0.81$
 $C_{100} = 0.85$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 6.6$ cfs
 $Q_{100} = 11.3$ cfs

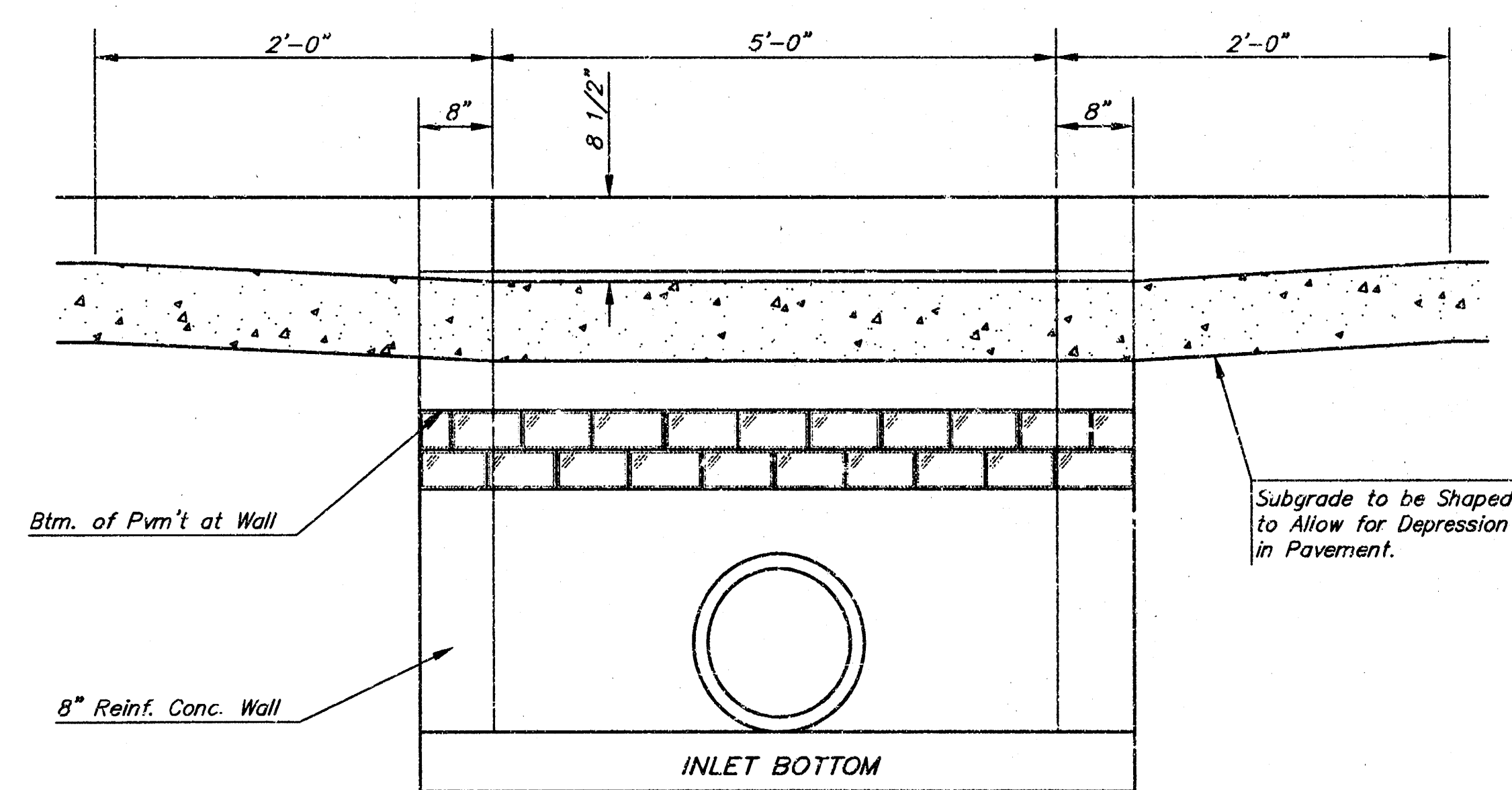
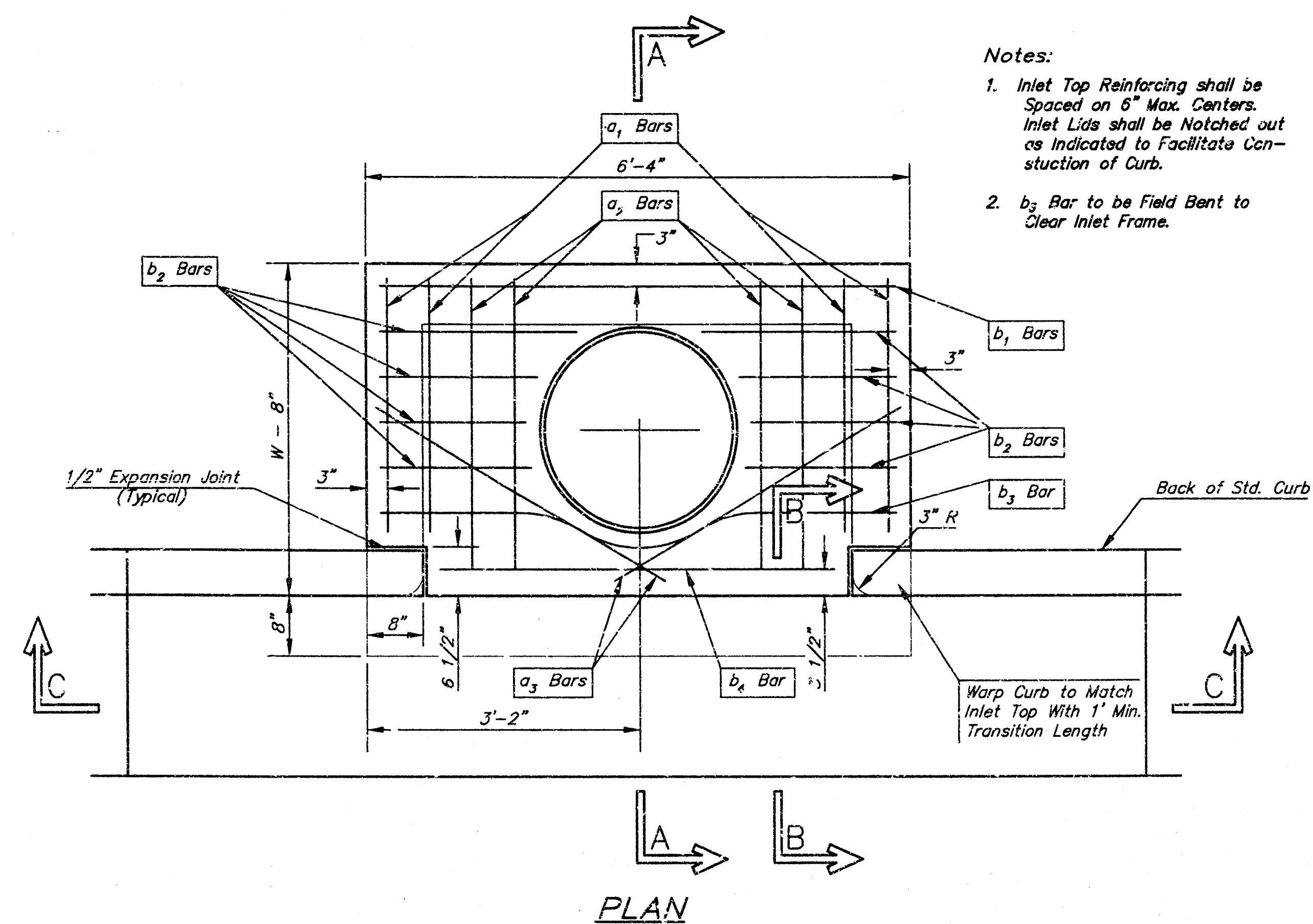
Inlet Sta. 2+47.47
Area = 1.37 acres
 $C_s = 0.87$
 $C_{100} = 0.89$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 5.5$ cfs
 $Q_{100} = 9.0$ cfs

Inlet Sta. 3+20.60
Area = 0.31 acres
 $C_s = 0.86$
 $C_{100} = 0.92$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 1.2$ cfs
 $Q_{100} = 2.1$ cfs

Inlet Sta. 4+76.10
Area = 0.51 acres
 $C_s = 0.86$
 $C_{100} = 0.90$
 $I_s = 4.56$ in/hr
 $I_{100} = 7.37$ in/hr
 $Q_s = 2.0$ cfs
 $Q_{100} = 3.4$ cfs



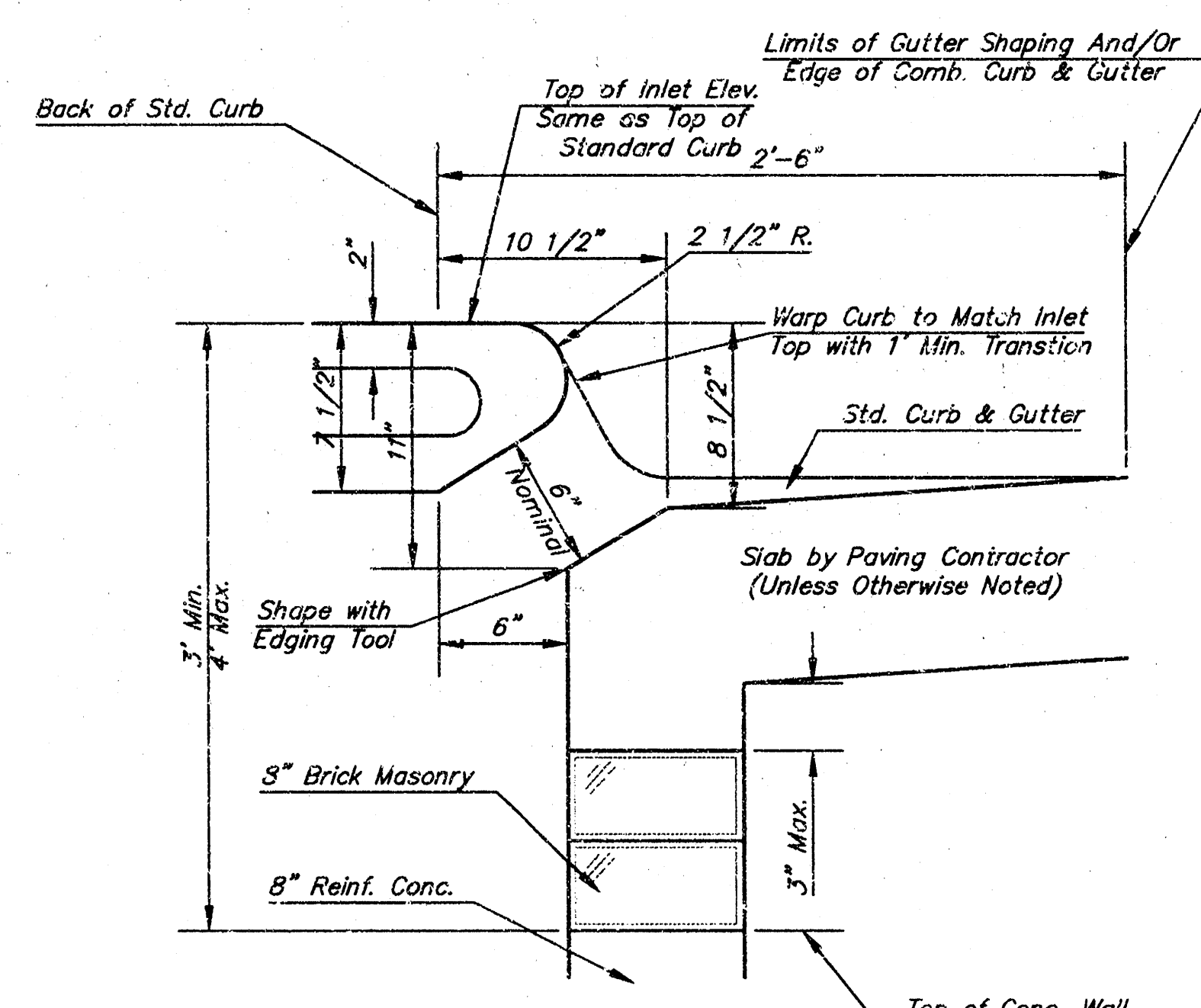
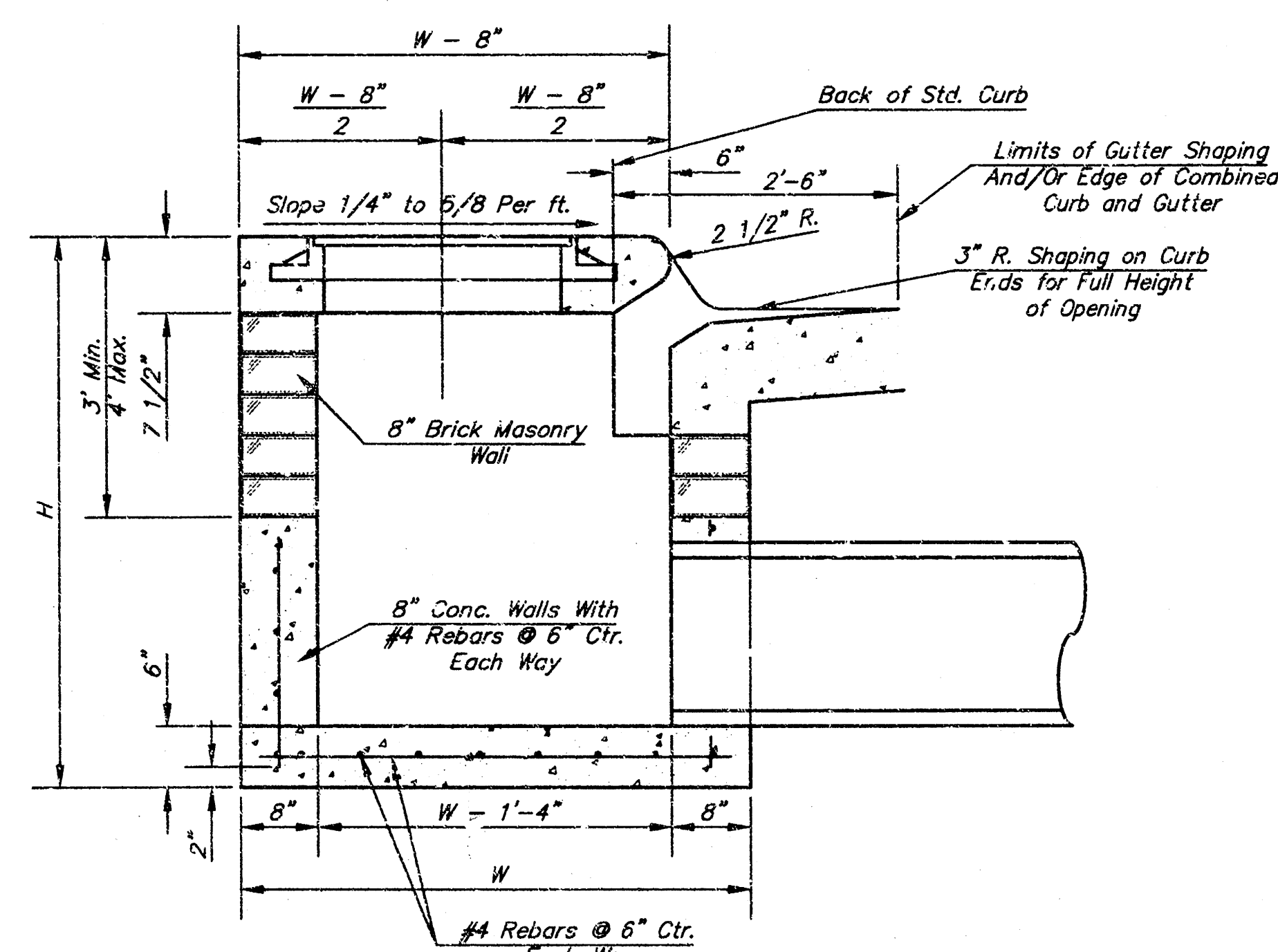
PRIVATE STORM SEWER EXTENSIONS SERVING LOT 1, BLOCK 1, REFLECTION RIDGE COMMERCIAL 2ND ADDITION, WICHITA, KANSAS			
SRB		310-264-8008 FAX 264-4621 http://www.fest.com/~srb E-Mail: srbs@fest.com	
SAVOY, RUGGLES & BOHM, P. A. ENGINEERING & SURVEYING			
PROJECT NUMBER 706 PPS (607861)			
DESIGN KWL	DRAWN KWL	UTILITY REVIEW	DATE Mar. 25, 1997
SHEET 6		OF 10	



BAR	STEEL SCHEDULE										WT. LBS.
	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	b ₅	b ₆	b ₇	
NUMBER	4	4	2	1	3	5	7	9	6	1	1
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"
	W=5'-4"	7'-7"	8'-7"	5'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"
	W=6'-4"	9'-7"	10'-7"	6'-0"	-	6'-1"	-	-	1'-9"	6'-2"	4'-8"
	W=7'-4"	11'-7"	12'-7"	7'-0"	-	-	6'-1"	-	1'-9"	6'-2"	4'-8"
	W=8'-4"	13'-7"	14'-7"	8'-0"	-	-	-	6'-1"	1'-9"	6'-2"	4'-8"

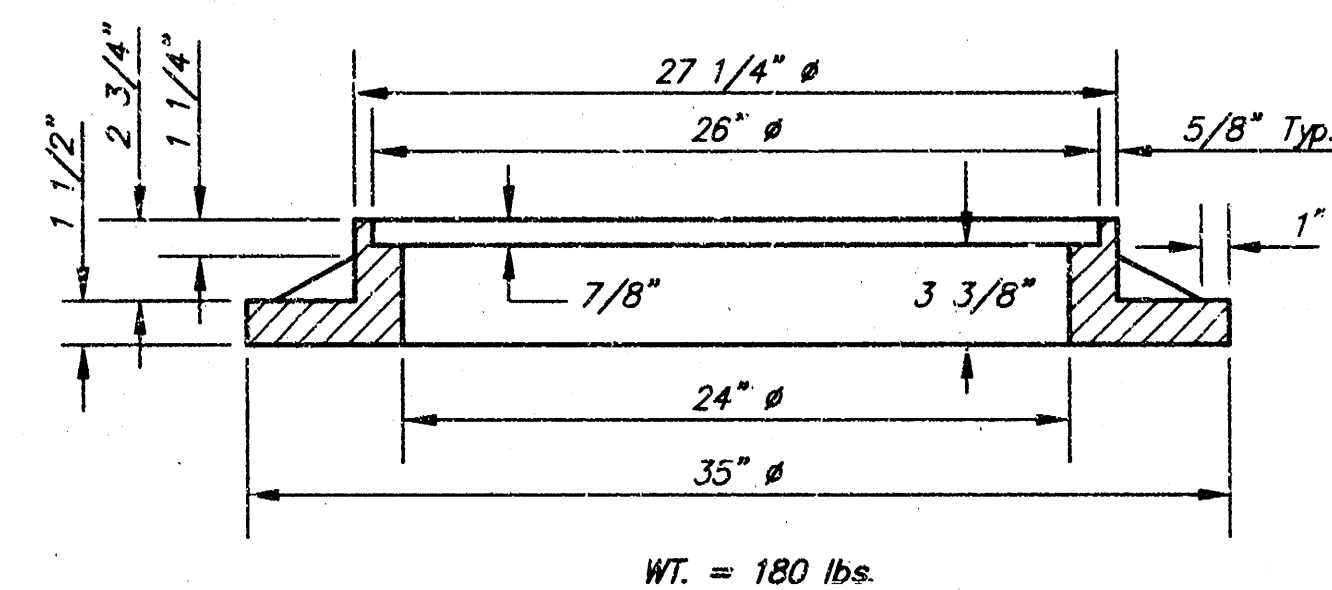
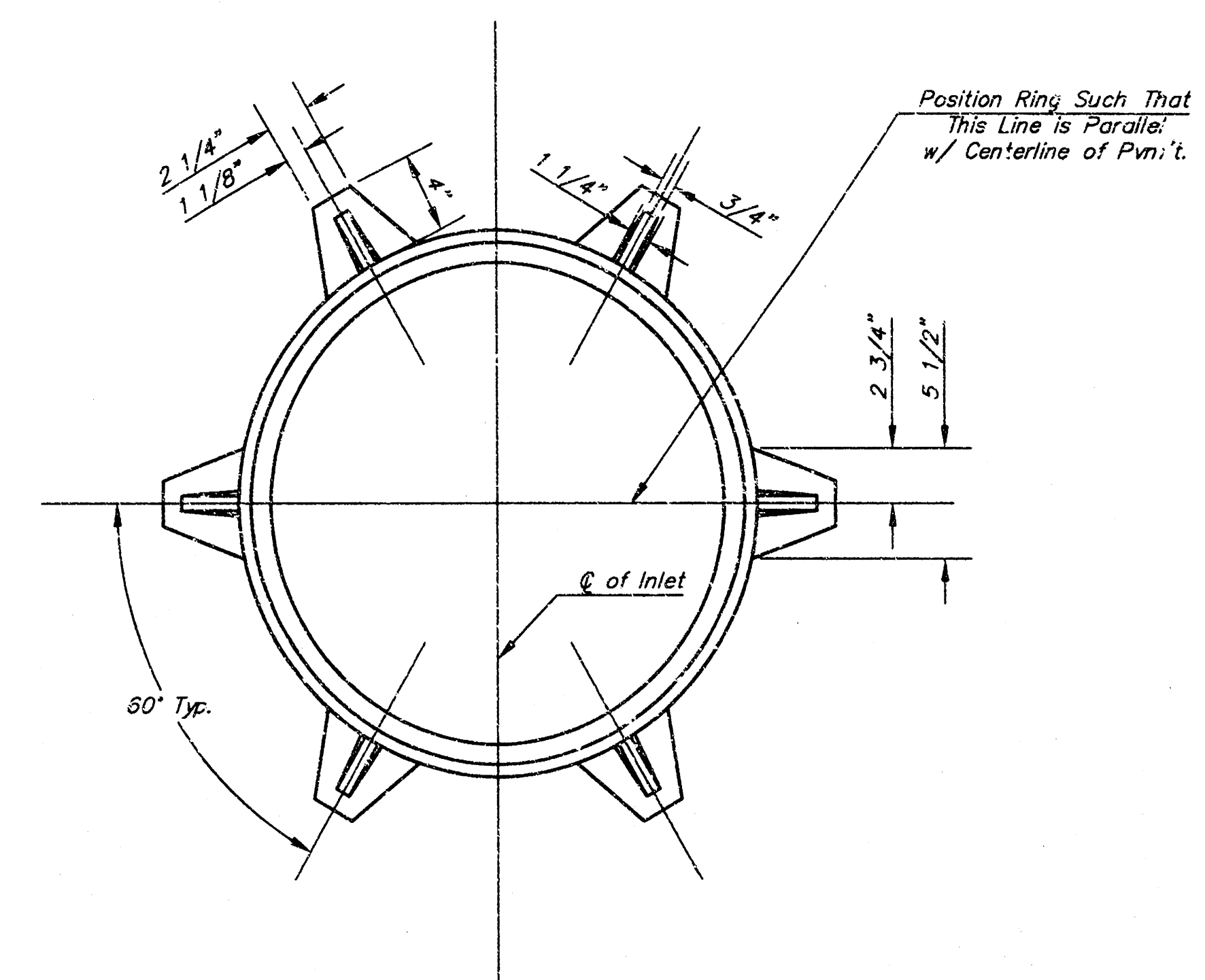
Note: a₃ Bars to be Placed Approx. 2" Below Top of Inlet Cover.

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	5'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 5'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±



GENERAL NOTES

- Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
- Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.
- Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
- The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



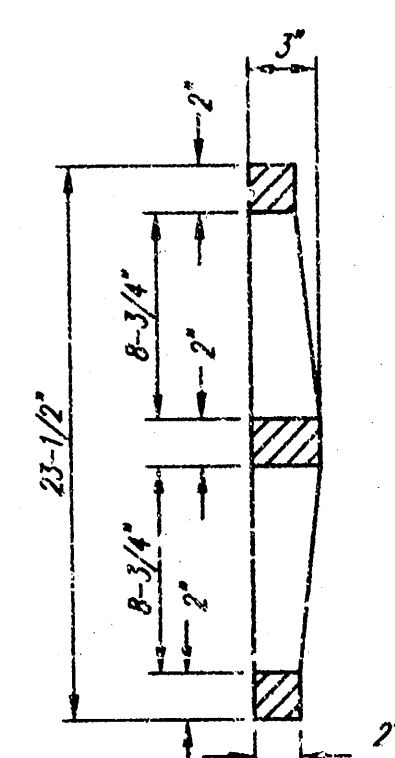
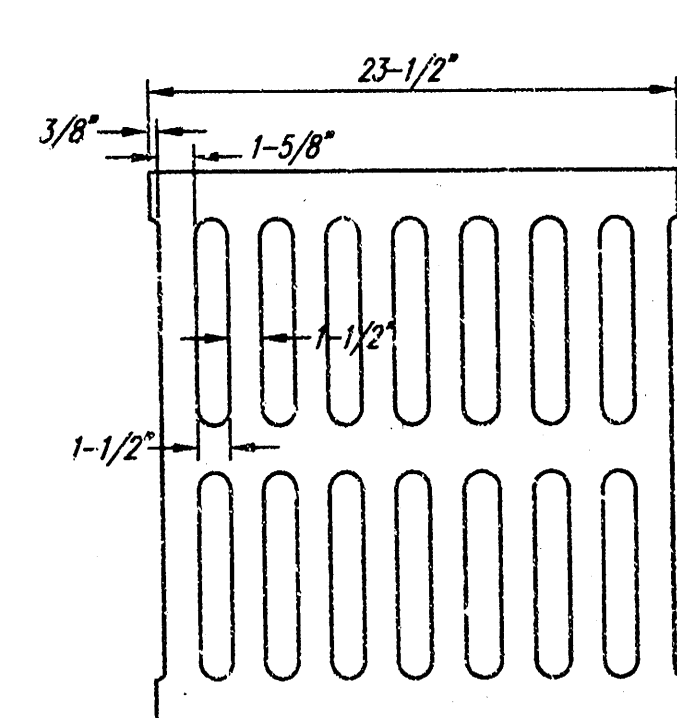
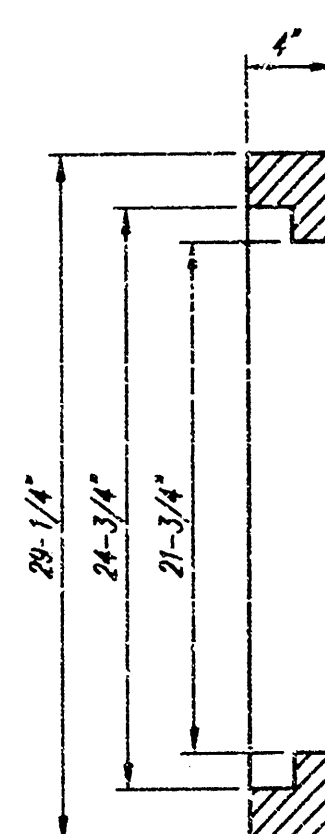
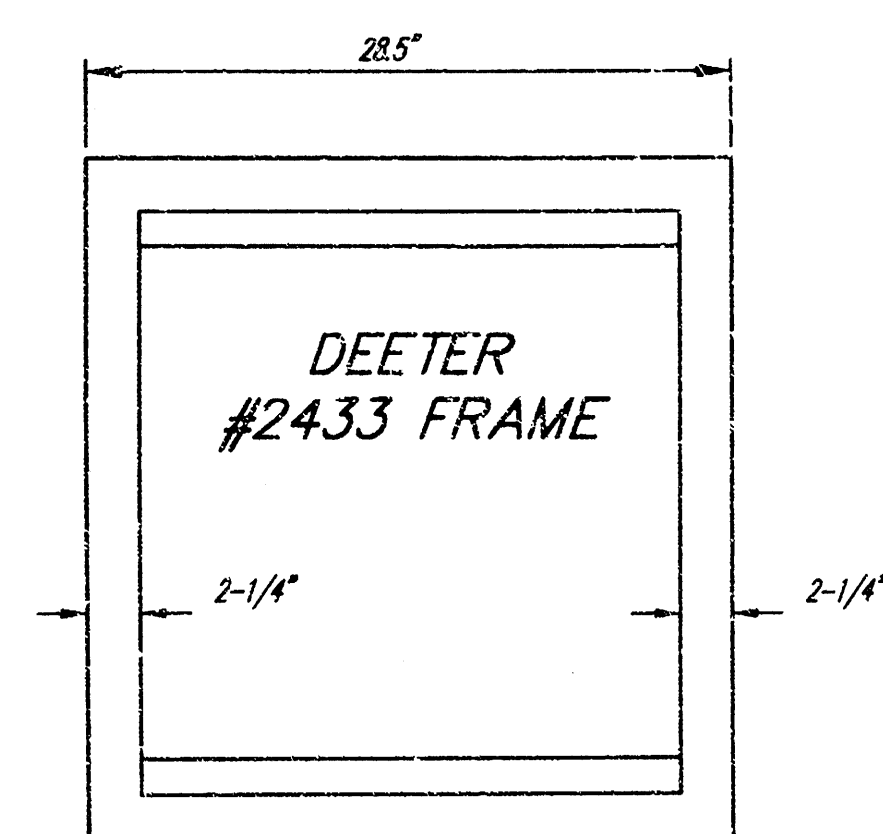
THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
400 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4114 FAX

**STANDARD TYPE 1
CURB INLET
OPENING = 6"x5'-0"**

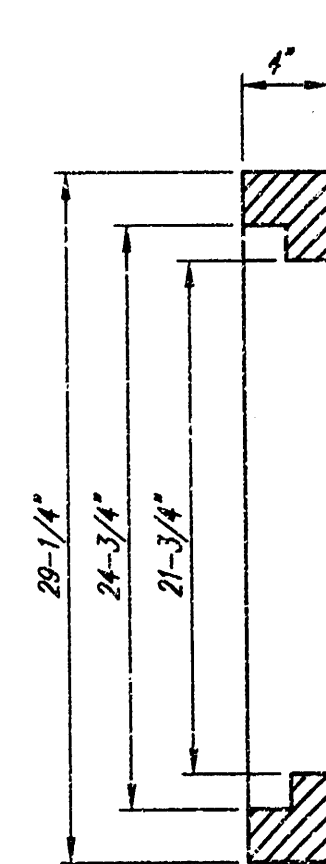
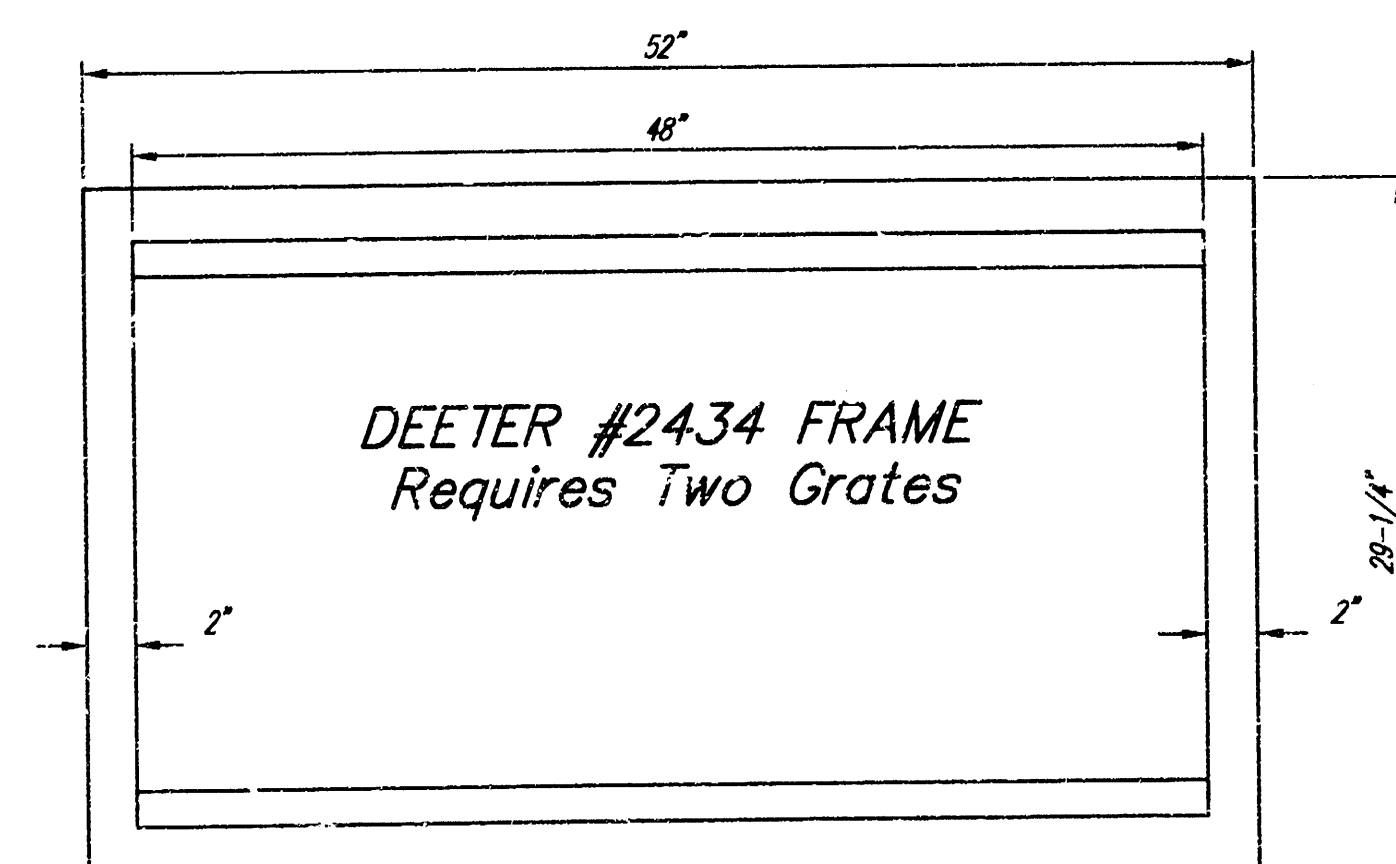
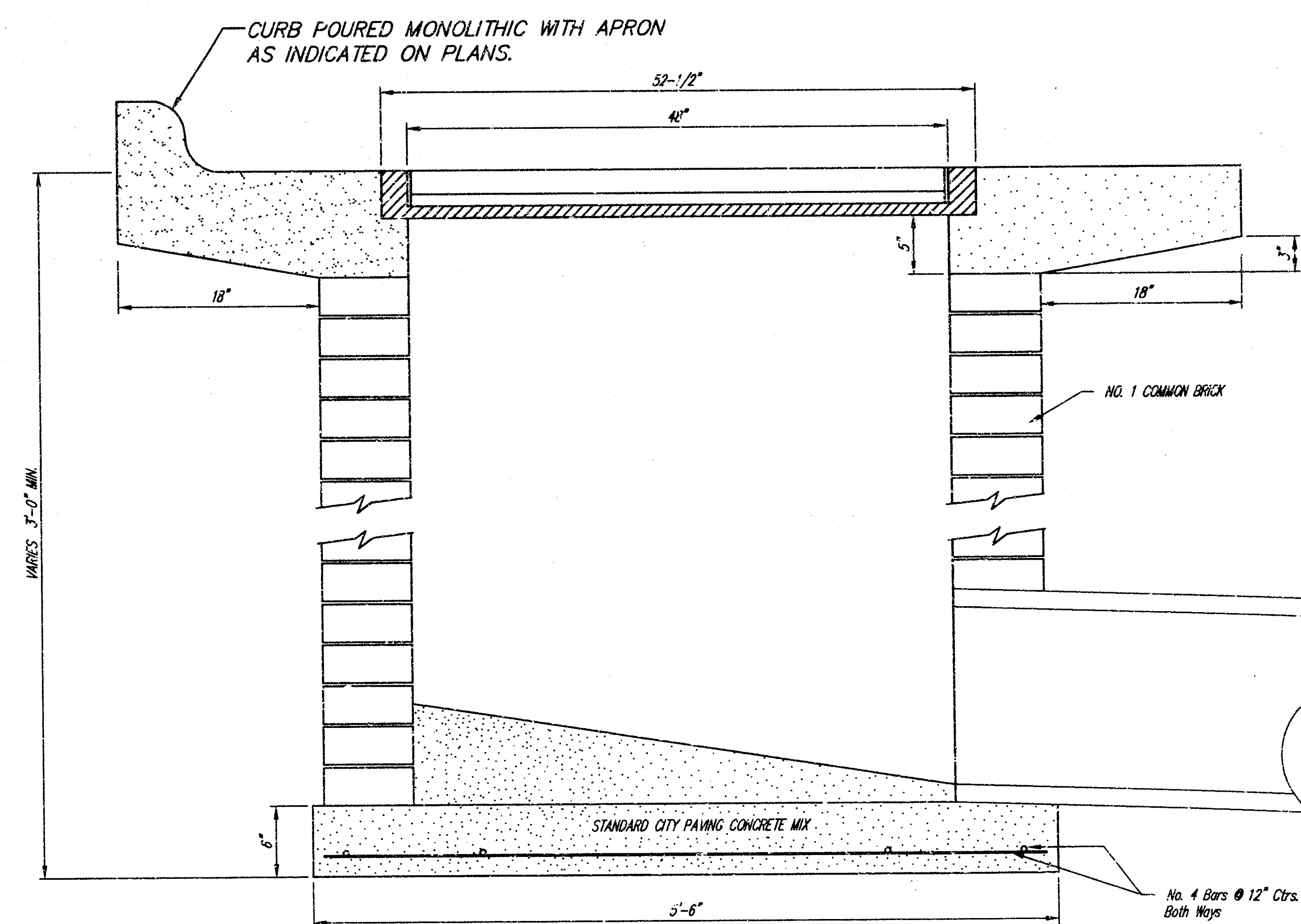
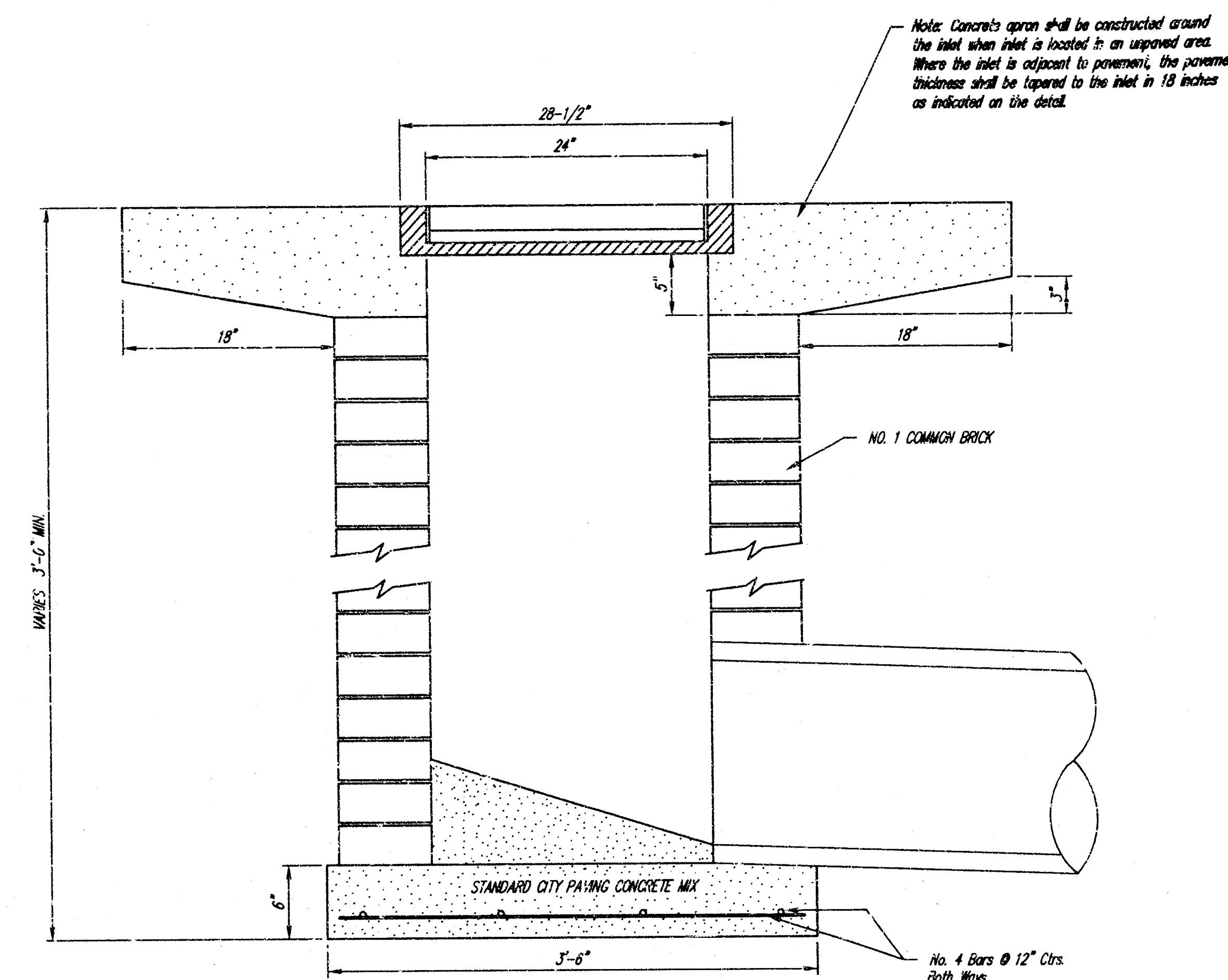
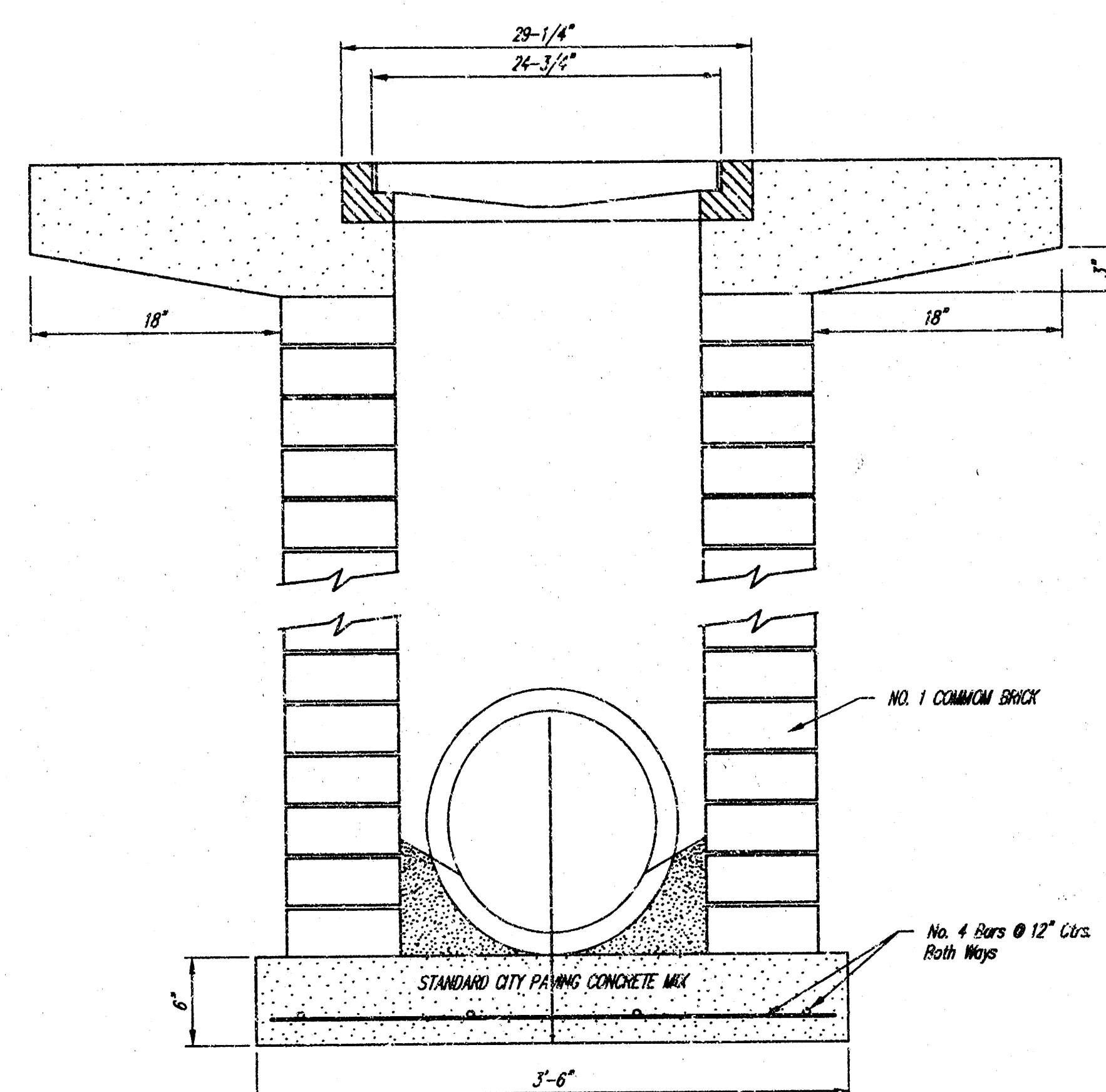
M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER	INDEX CODE
706 PPS	607851
DATE	SHEET 7 OF 10
MAR 96	



DEETER #2433 GRATE

24" x 24" Frame and Grate Detail



Double 24" x 24" Frame Detail