

GENERAL NOTES

- UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.
- 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/HER CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-FOUR (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

 KANSAS ONE-CALL 1-800-344-7233
 OR 687-2470 (LOCAL WICHITA)

 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

 SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7590
 COX CABLEVISION 262-0861
 KG&E (ELECTRIC) 383-8600
 KANSAS GAS SERVICE 383-8600
 CITY OF WICHITA WATER & SEWER MAINT. 262-6000
 PEOPLES NATURAL GAS 1-800-303-0357
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- THE TOPS OF INLETS AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT IMPROVEMENTS.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

STORM SEWERS *VRH 10/21/02*

NOTE TO CONTRACTOR

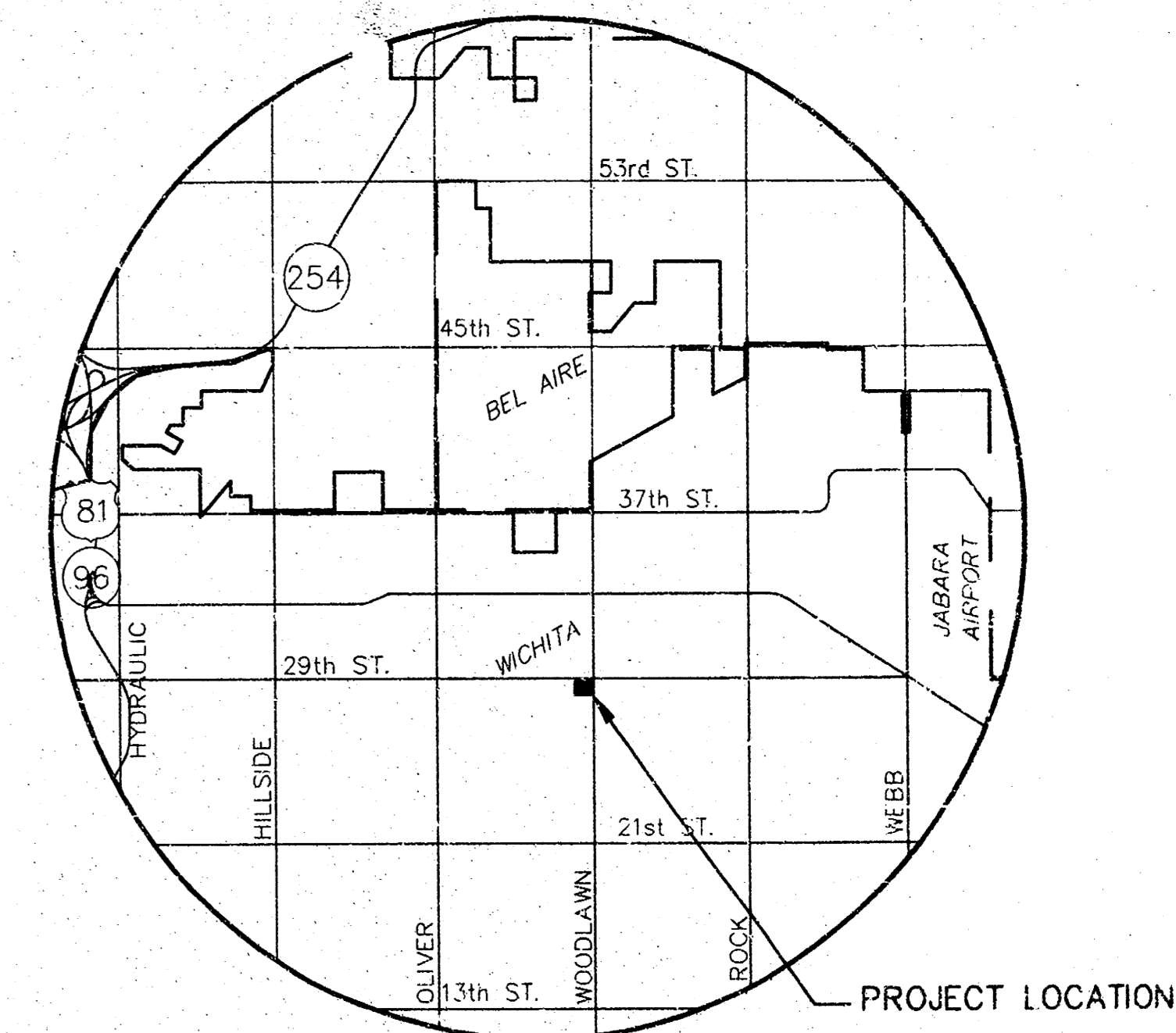
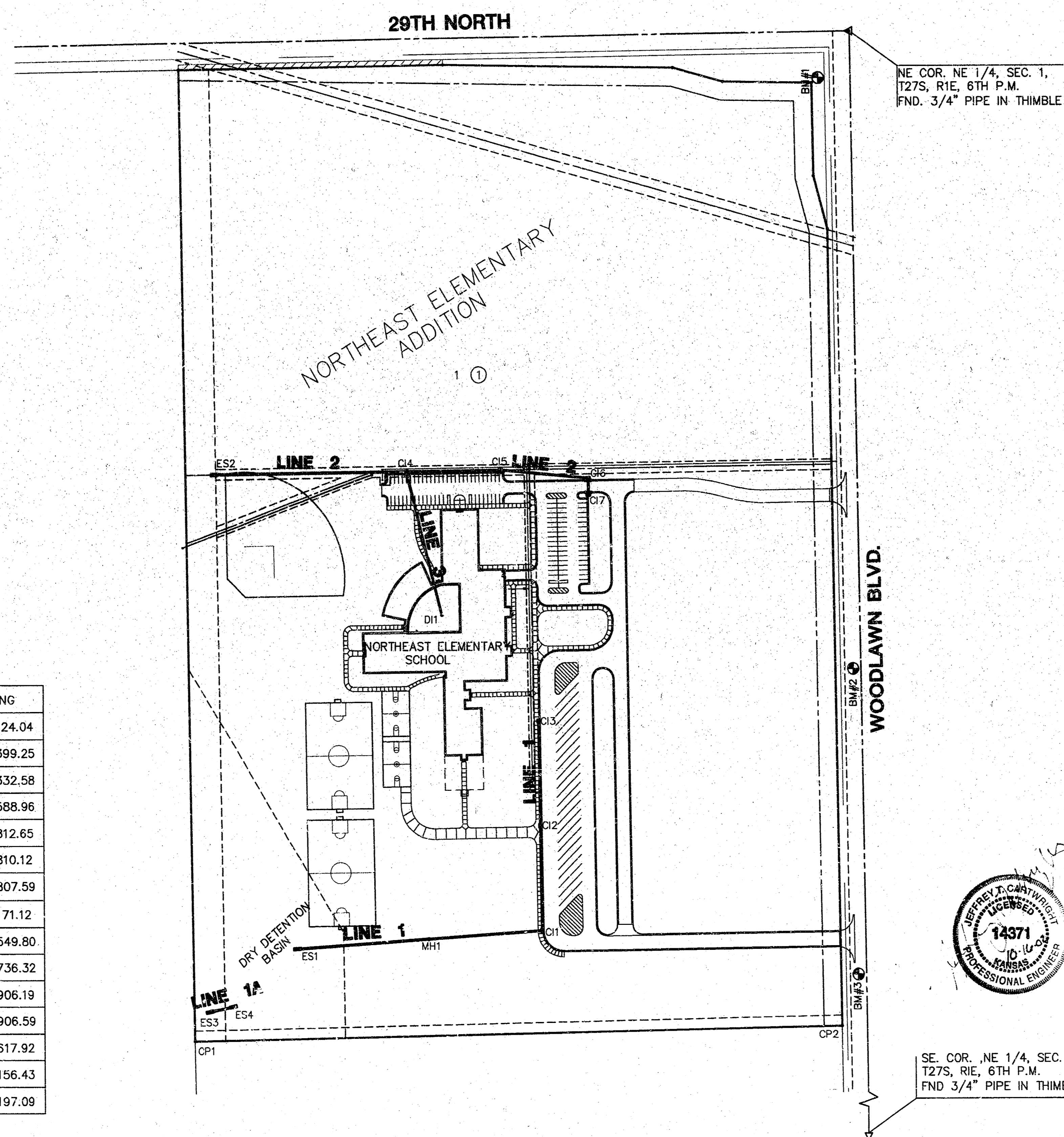
INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

	NORTHING	EASTING
CP1	1702974.71	1669124.04
CP2	1703000.15	1670399.25
ES1	1703148.97	1669332.58
MH1	1703166.34	1669588.96
CI1	1703181.41	1669812.65
CI2	1703378.39	1669810.12
CI3	1703575.35	1669807.59
ES2	1704040.86	1669171.12
CI4	1704045.65	1669549.80
CI5	1704048.01	1669736.32
CI6	1704032.16	1669906.19
CI7	1704000.82	1669906.59
DI1	1703775.09	1669617.92
ES3	1703030.72	1669156.43
ES4	1703039.51	1669197.09

PRIVATE STORMWATER SEWER PLANS FOR NORTHEAST ELEMENTARY SCHOOL

CITY OF WICHITA, KANSAS
NEIL CABLE, CITY ENGINEER

PROJECT NO. 1283 PPS
OCA NO. 607861



SCALE: 1" = 150'

LEGEND

• IRON

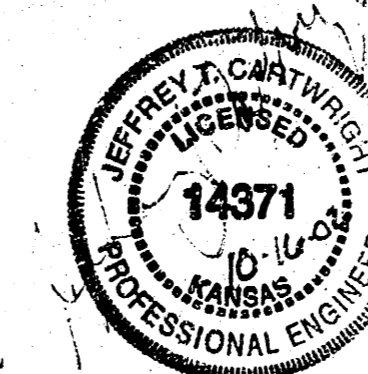
LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-6	STORM SEWER PLAN & PROFILE
7-9	STORM SEWER DETAILS
10	FINAL PLAN

BENCHMARK

- BM #1 RR SPIKE IN NE FACE HLP @ SW CORNER 29TH ST. NORTH & WOODLAWN ELEV.=1364.74
- BM #2 RR SPIKE IN W FACE 3RD HLP S OF 29TH W SIDE OF WOODLAWN ELEV.=1371.25
- BM #3 RR SPIKE IN W FACE 5TH HLP S OF 29TH W SIDE OF WOODLAWN ELEV.=1375.85



SE. COR. NE 1/4, SEC. 1,
T27S, R1E, 6TH P.M.
FND. 3/4" PIPE IN THIMBLE

G:\CIVIL\01160\DWG\SW\01160DT.DWG

AS-BUILT: OCTOBER 2009

CITY OF WICHITA
NORTHEAST ELEMENTARY SCHOOL
PROJECT NAME

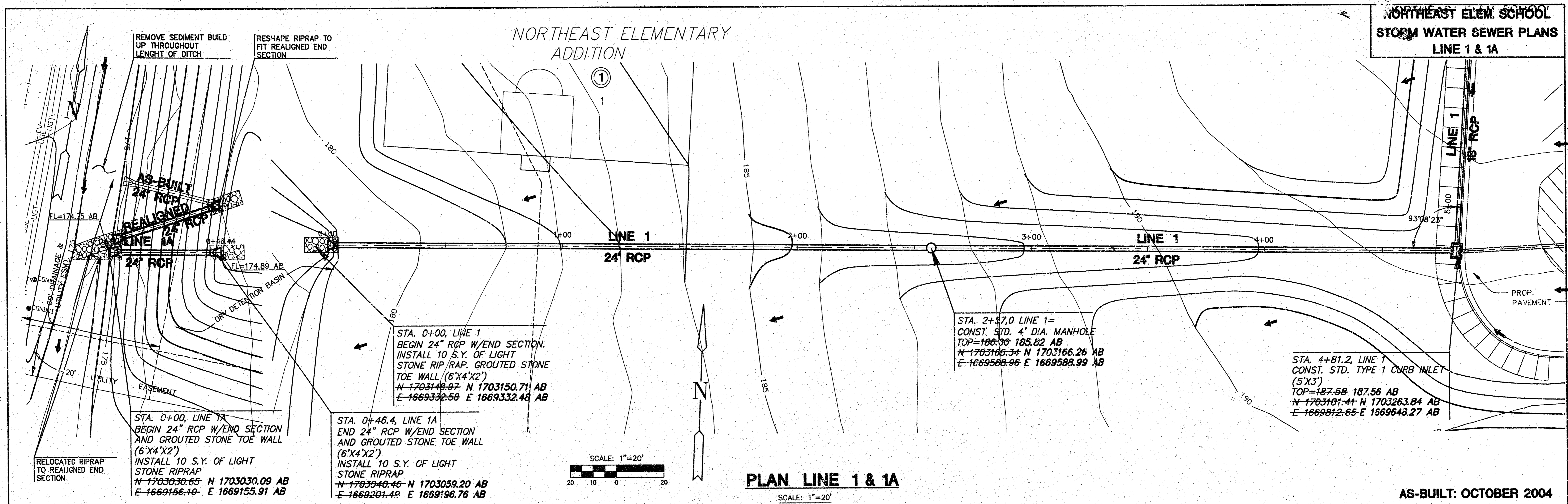
MKEC
ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67306
316-684-9600

TITLE SHEET
SHEET TITLE

JTC DESIGN BY: DAC DRAWN BY: JTC CHECKED BY:
SEPTEMBER 2002 DATE 01160DT JOB NO. 1 / 10 SHEET/OF

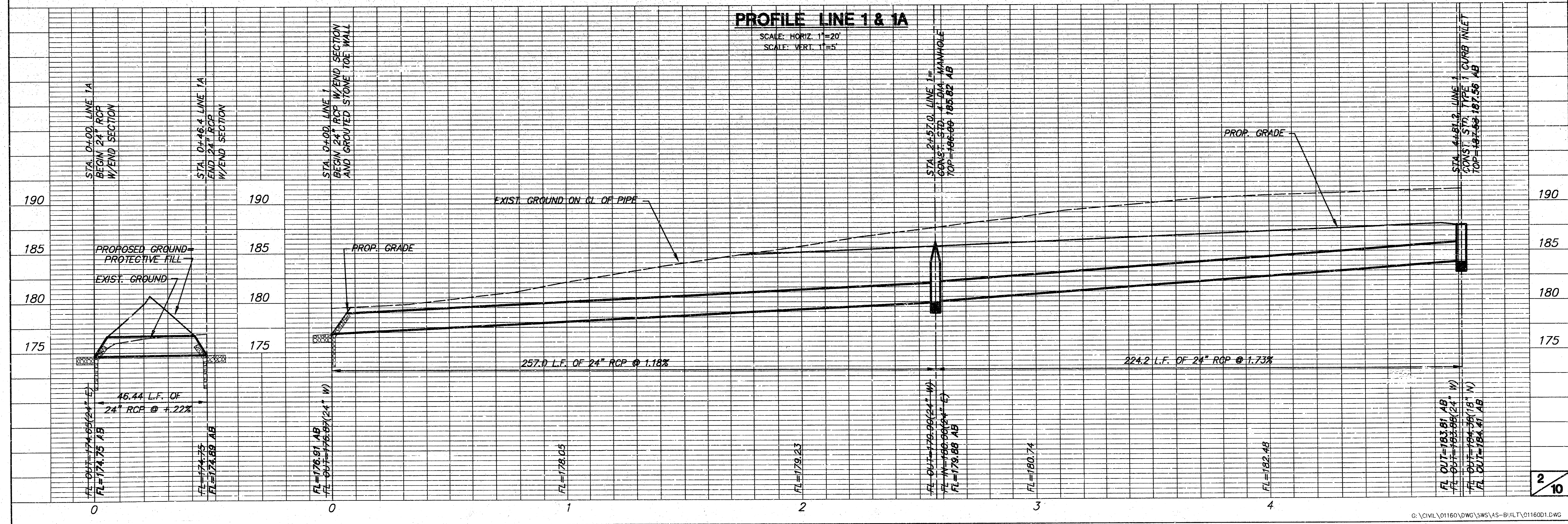
18 15 01 10

**NORTHEAST ELEM. SCHOOL
STORM WATER SEWER PLANS
LINE 1 & 1A**



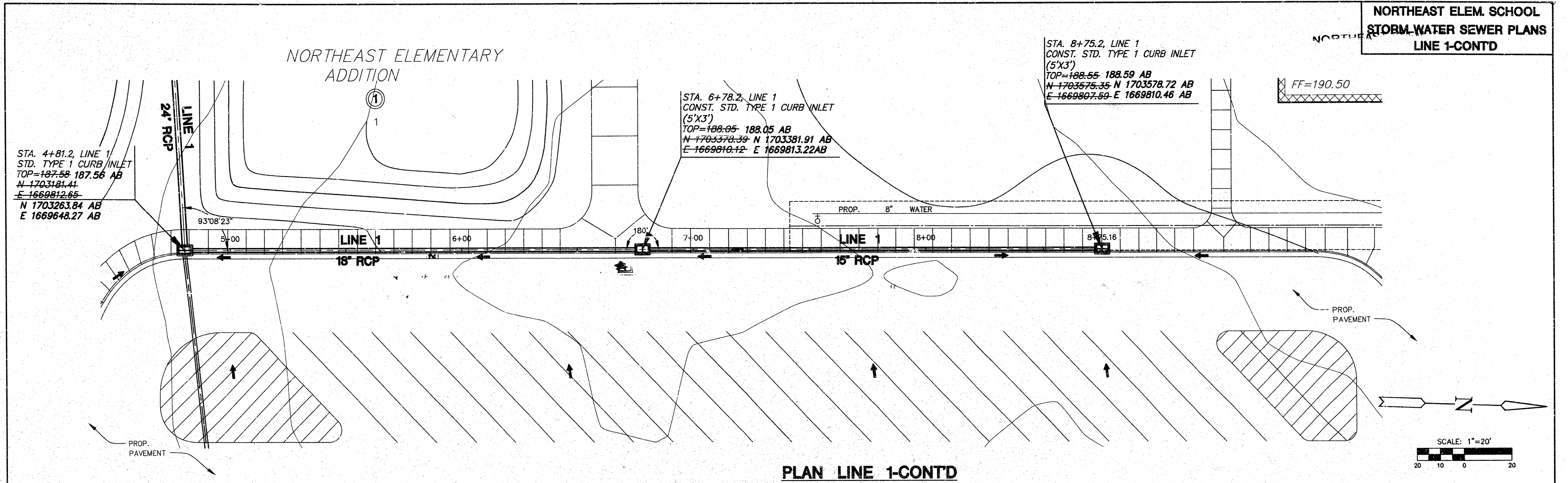
PLAN LINE 1 & 1A
SCALE: 1"=20'

AS-BUILT: OCTOBER 2004

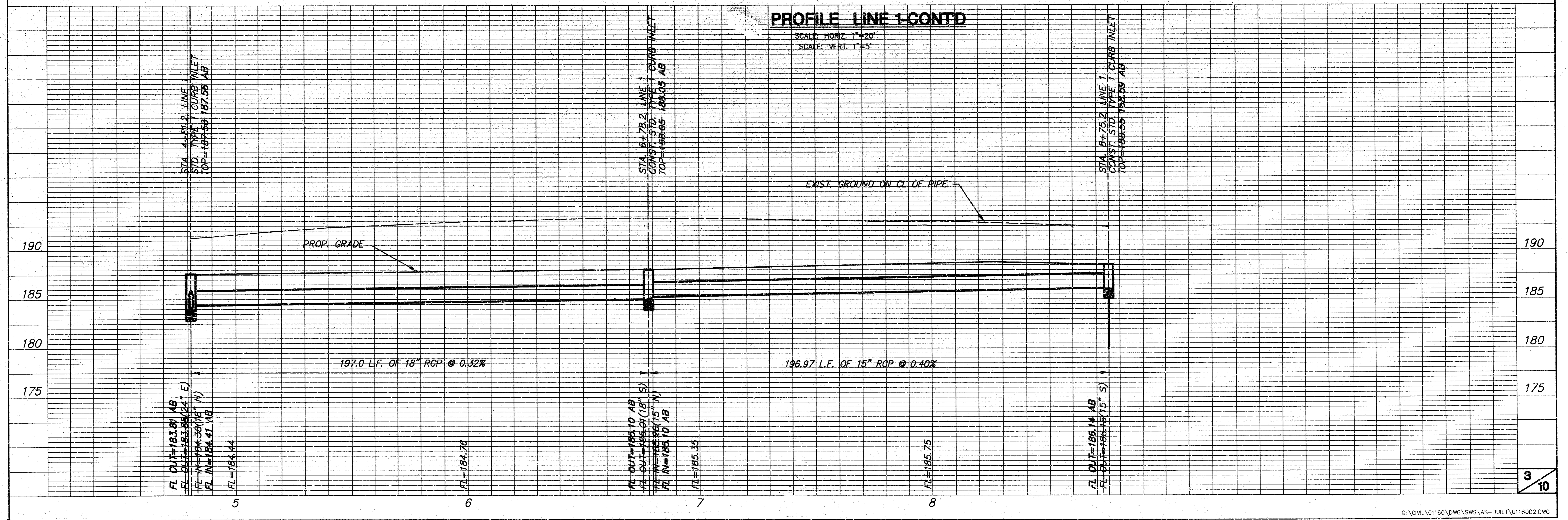


PROFILE LINE 1 & 1A
SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'

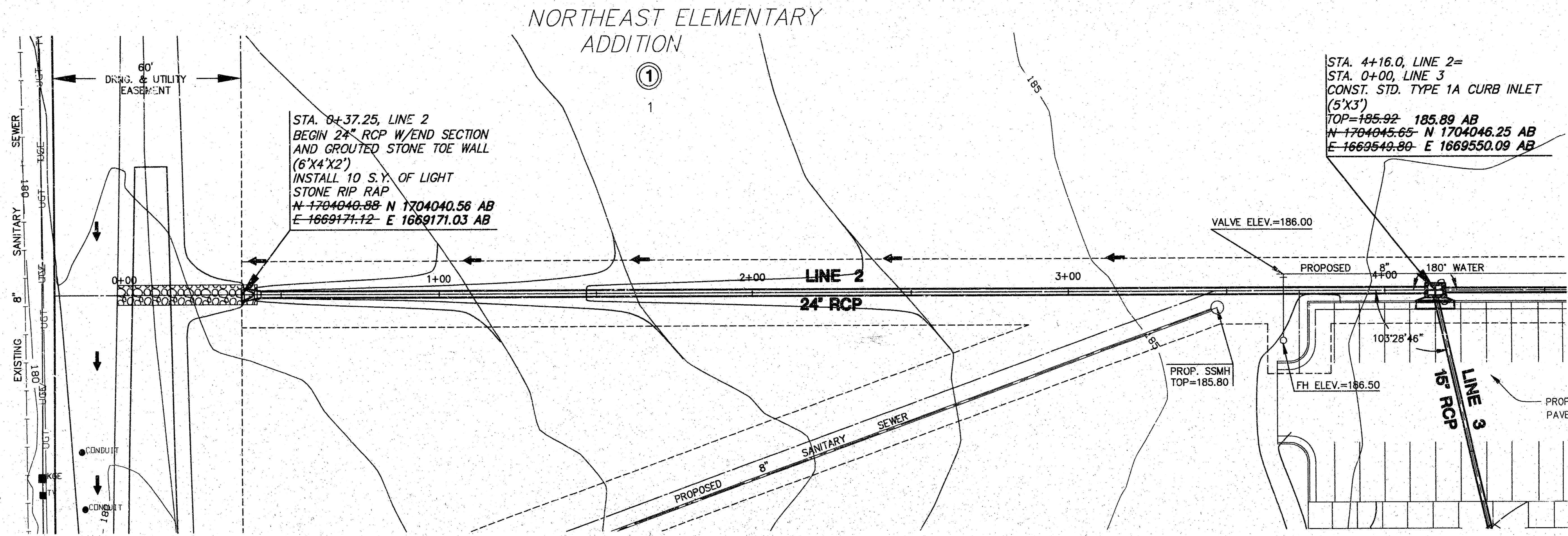
**NORTHEAST ELEM. SCHOOL
STORM WATER SEWER PLANS
LINE 1-CONTD**



PLAN LINE 1-CONTD
SCALE: 1"=20'

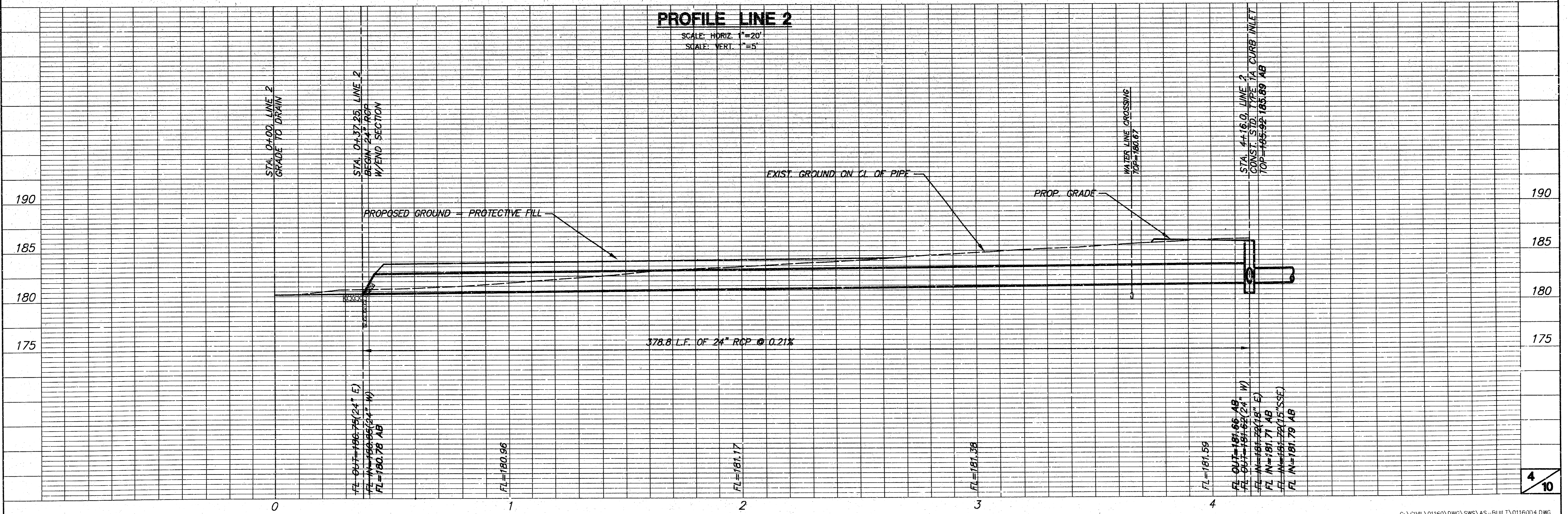


**NORTHEAST ELEM. SCHOOL
STORM WATER SEWER PLANS
LINE 2**

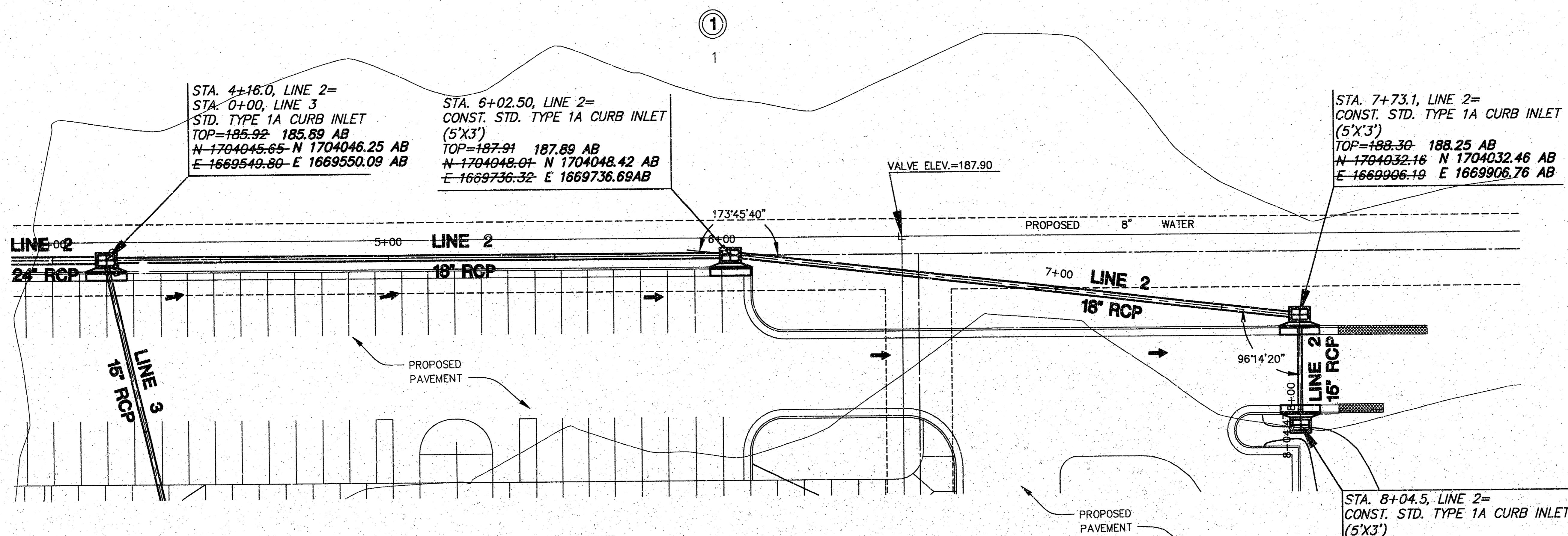


PLAN LINE 2
SCALE: 1"=20'

PROFILE LINE 2
SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'

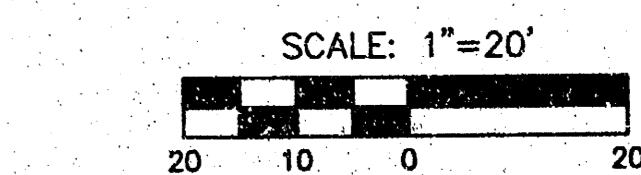


NORTHEAST ELEMENTARY
ADDITION



PLAN LINE 2-CONTD

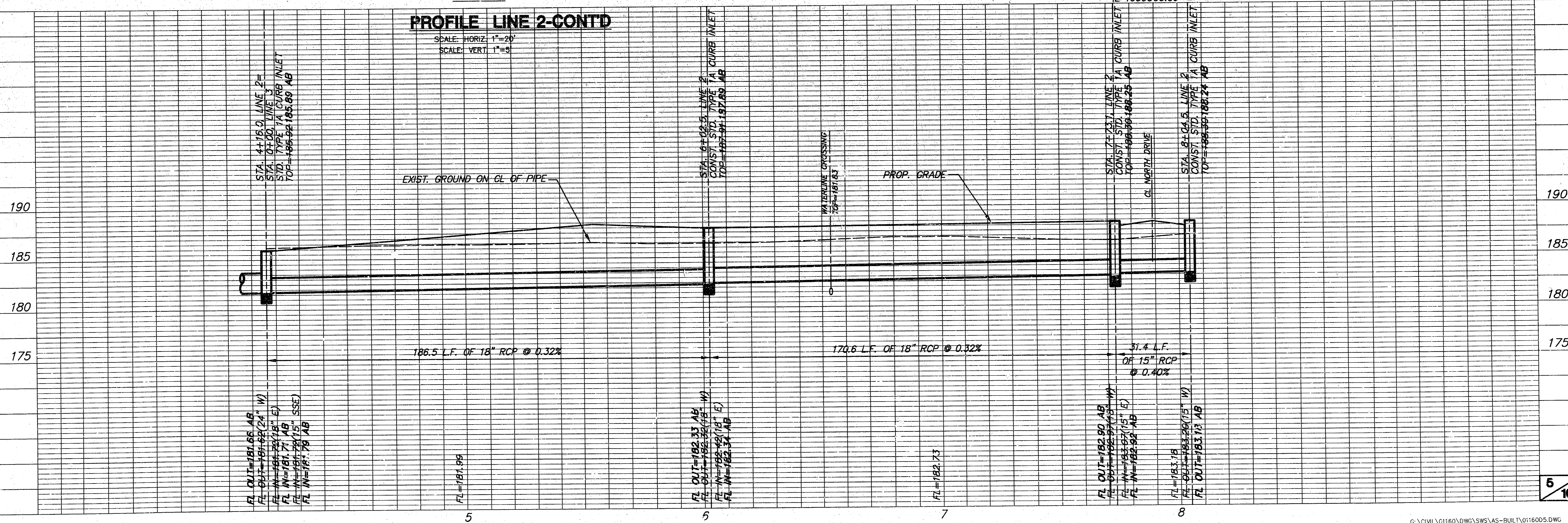
SCALE: 1"=20'



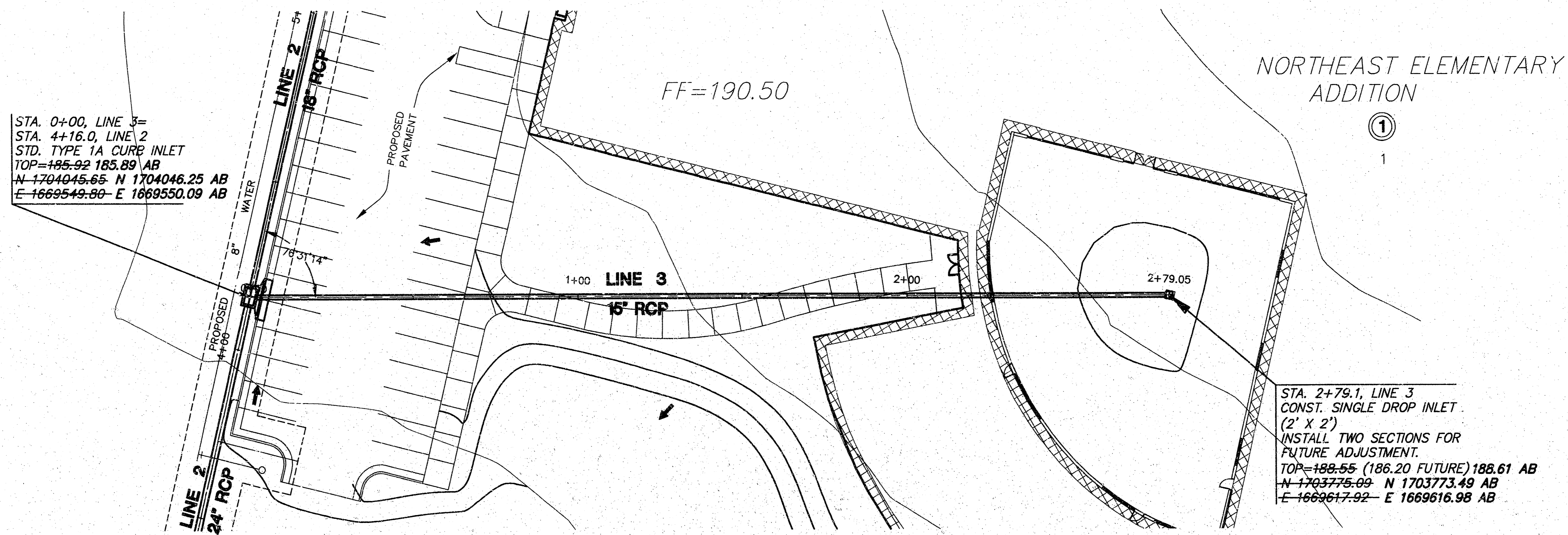
AS-BUILT: OCTOBER 2004

PROFILE LINE 2-CONTD

SCALE: HORIZ: 1"=20'
SCALE: VERT: 1"=5'



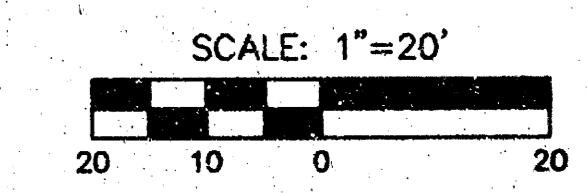
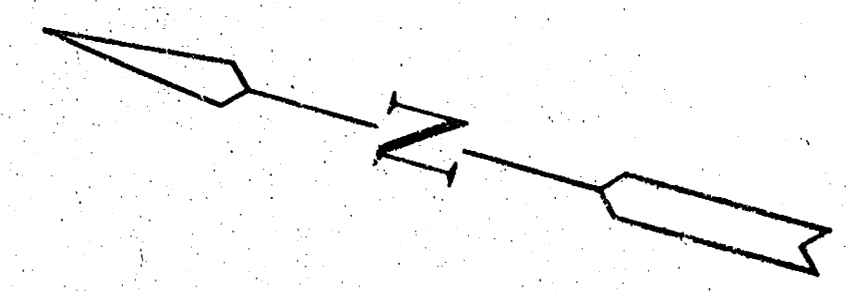
**NORTHEAST ELEM. SCHOOL
STORM WATER SEWER PLANS
LINE 3**



PLAN LINE 3

SCALE: 1"=20'

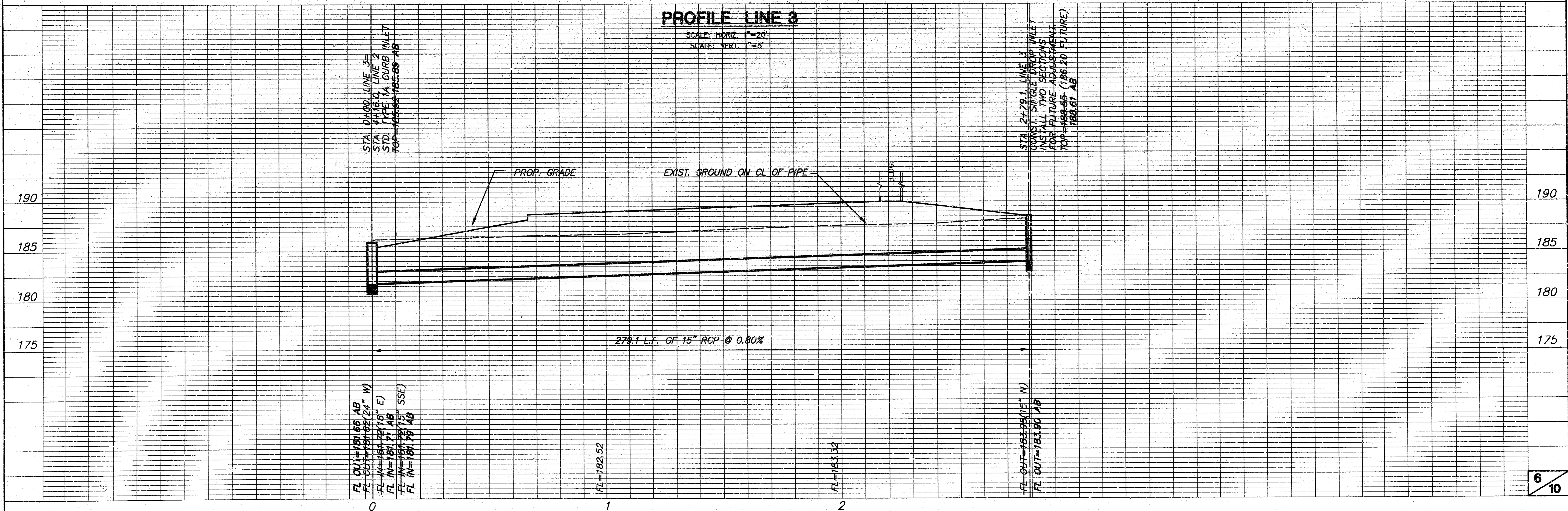
STA. 2+79.1, LINE 3
CONST. SINGLE DROP INLET
(2' X 2')
INSTALL TWO SECTIONS FOR
FUTURE ADJUSTMENT.
TOP=188.55 (186.20 FUTURE) 188.61 AB
N-1703775.09 N 1703773.49 AB
E-1669617.92 E 1669616.98 AB



AS-BUILT: OCTOBER 2004

PROFILE LINE 3

SCALE: HORIZ. 1"=20'
SCALE: VERT. 1"=5'



STA. 0+00, LINE 3=
STA. 4+16.0, LINE 2
STD. TYPE 1A CURB INLET
TOP=185.92 185.89 AB
N-1704045.65 N 1704046.25 AB
E-1669549.80 E 1669550.09 AB

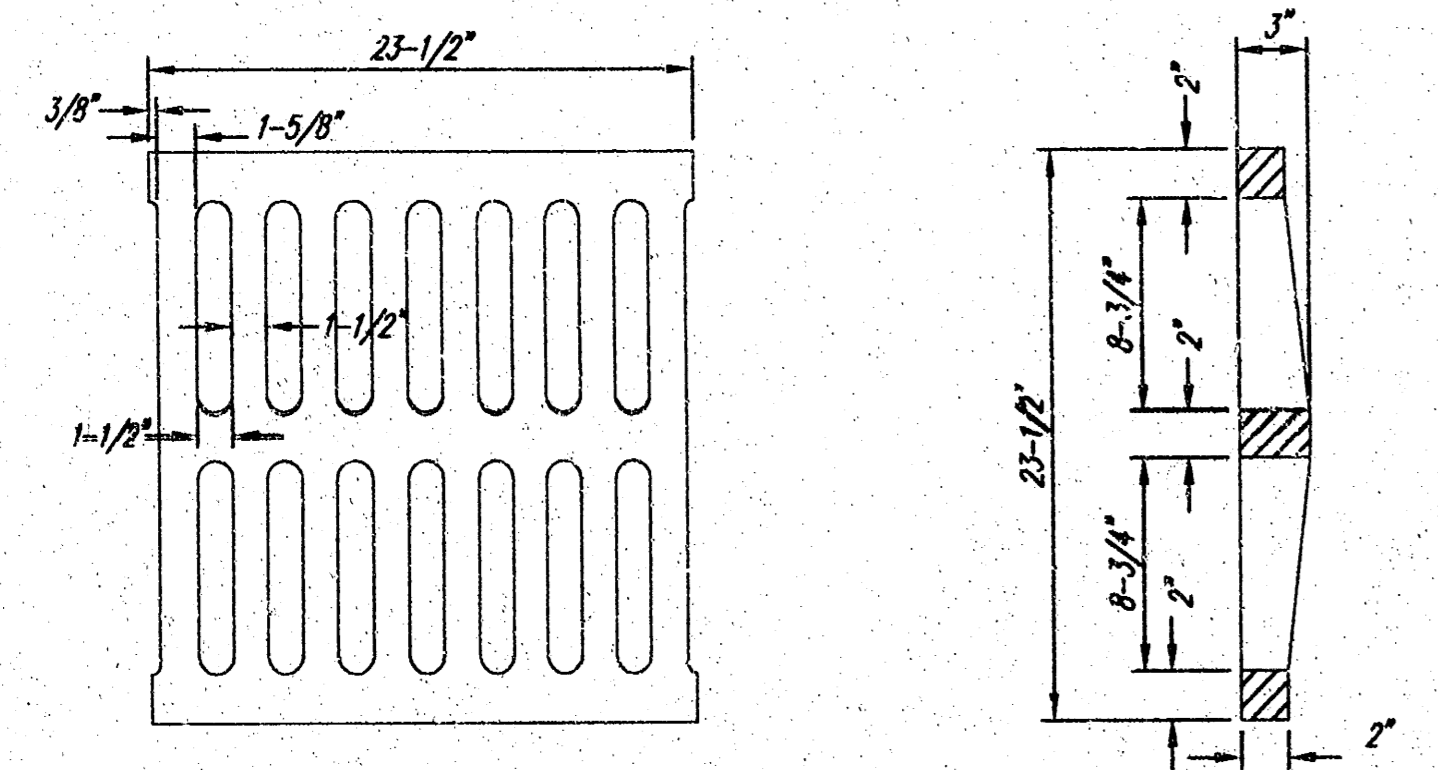
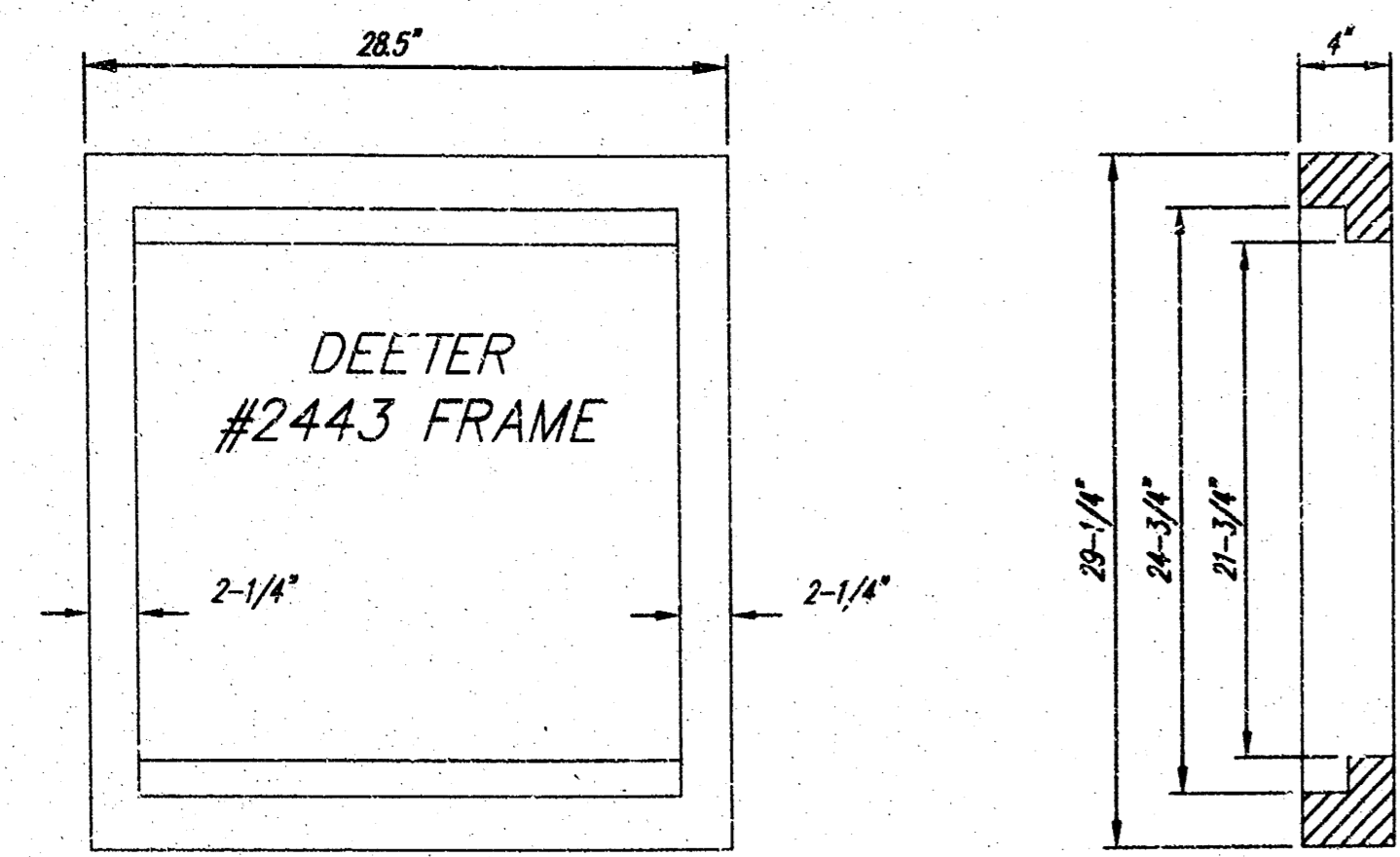
STA. 2+79.1, LINE 3
CONST. SINGLE DROP INLET
INSTALL TWO SECTIONS
FOR FUTURE ADJUSTMENT.
TOP=188.55 (186.20 FUTURE)
188.61 AB

FL OUT=181.66 AB
FL INT=181.66 AB
FL INT=181.66 AB
FL INT=181.66 AB
FL INT=181.66 AB

FL=182.52

FL=183.32

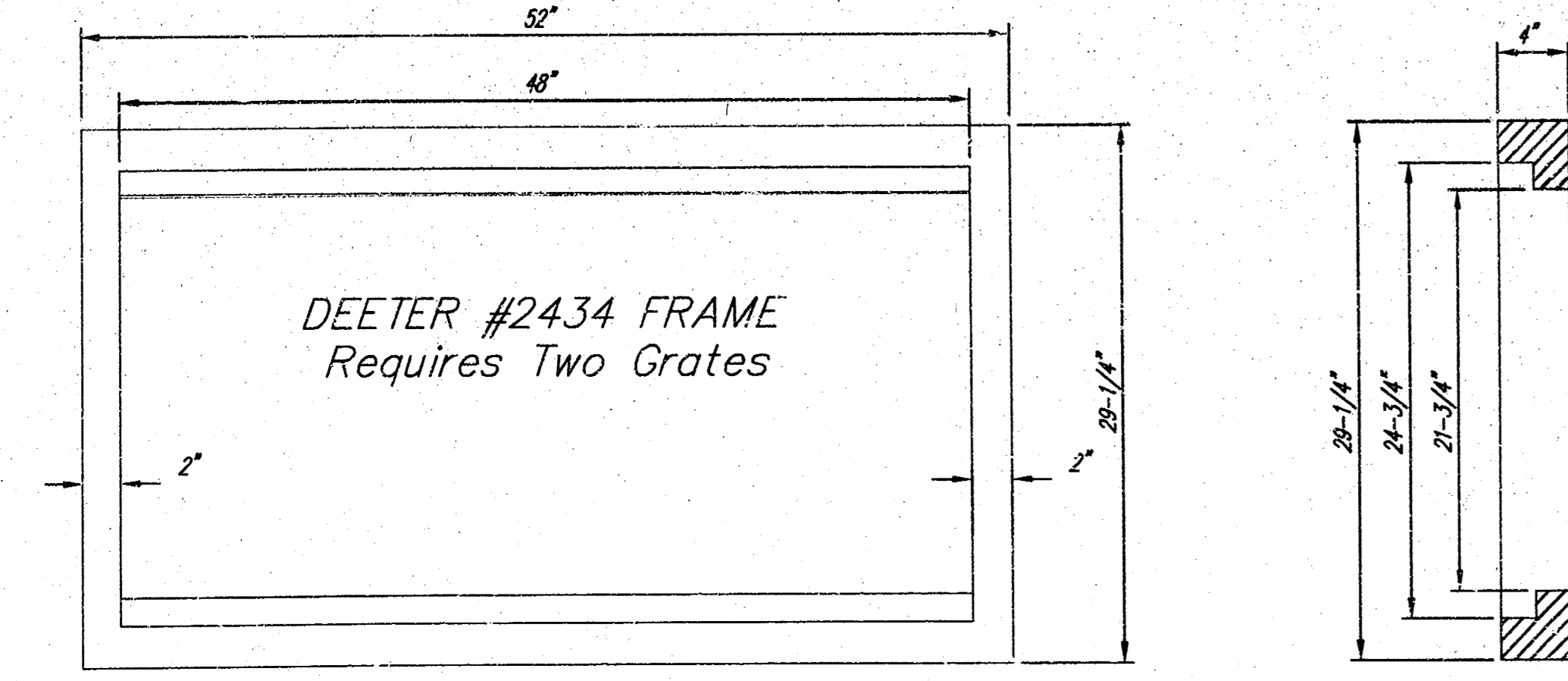
FL OUT=183.90 AB
FL INT=183.90 AB



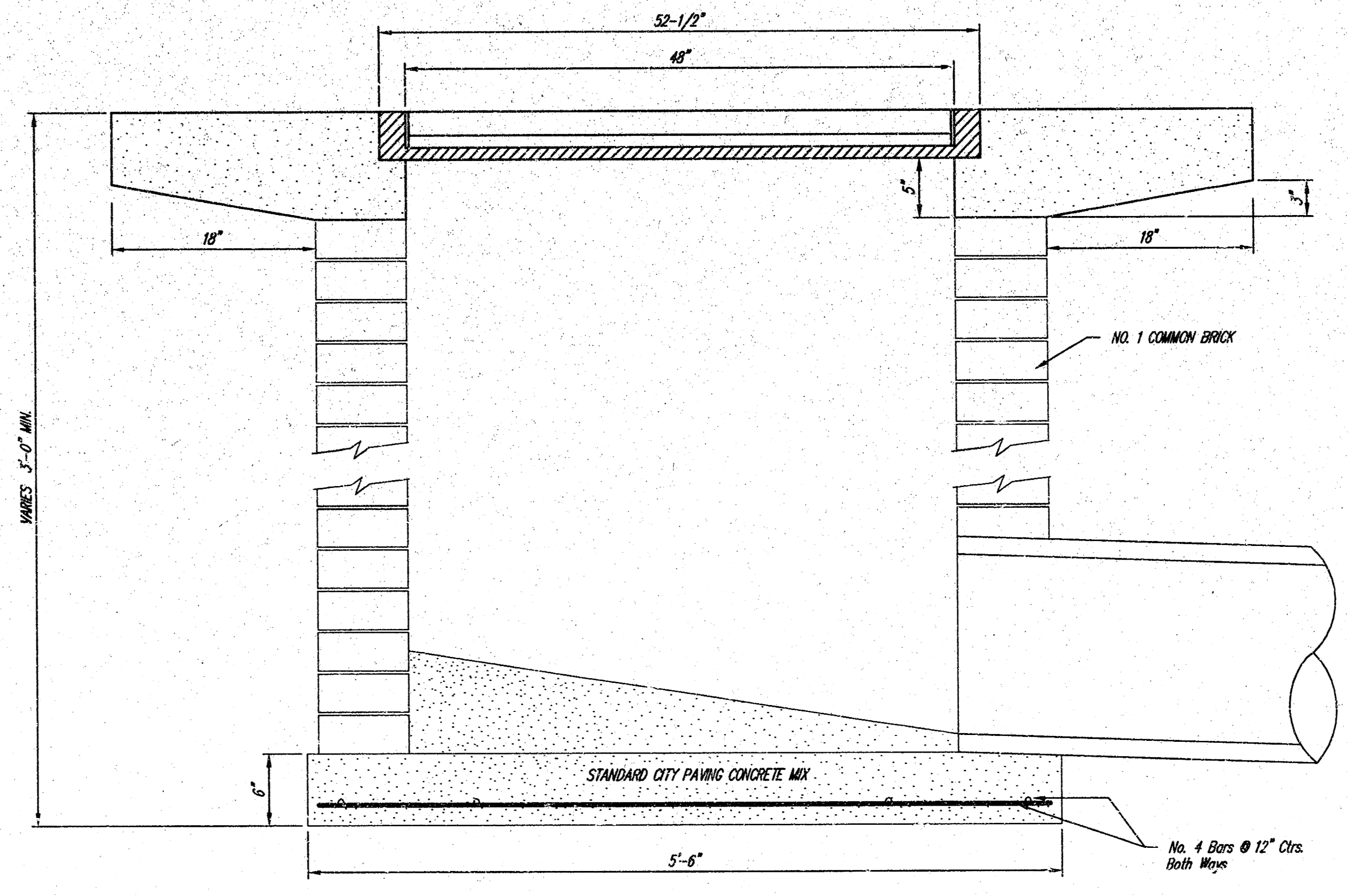
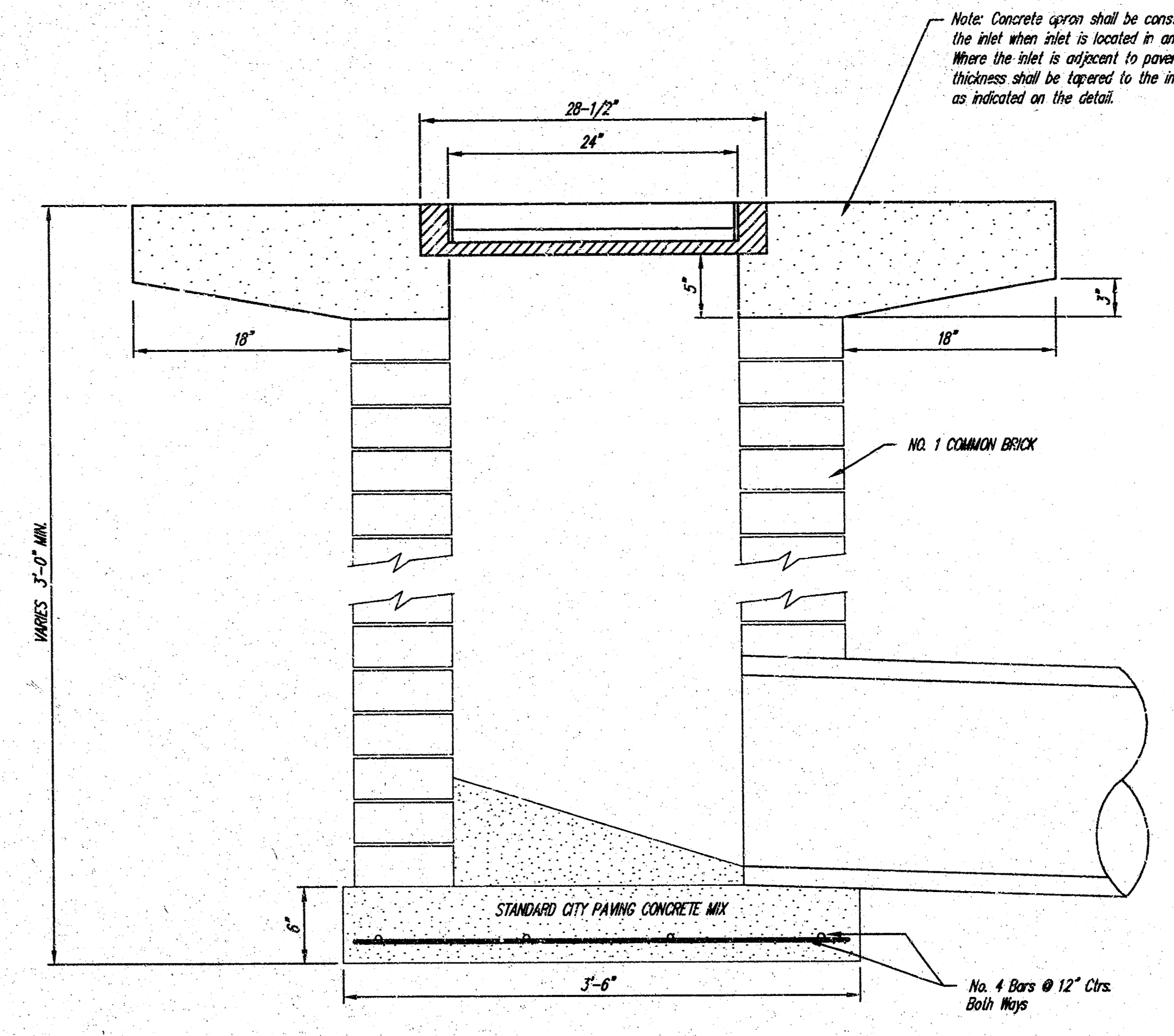
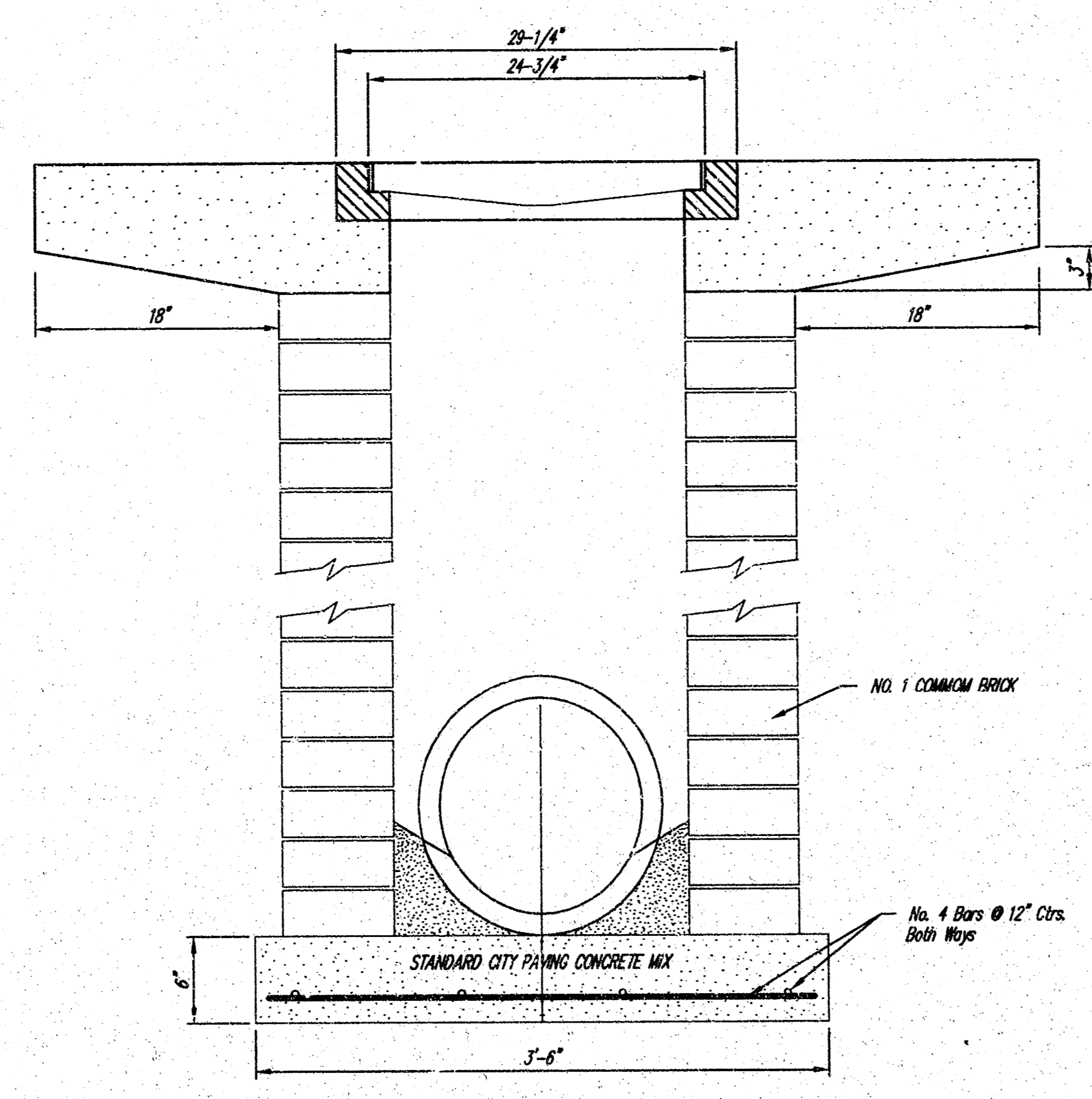
DEETER #2433 GRATE

24" x 24" Frame and Grate Detail

NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.

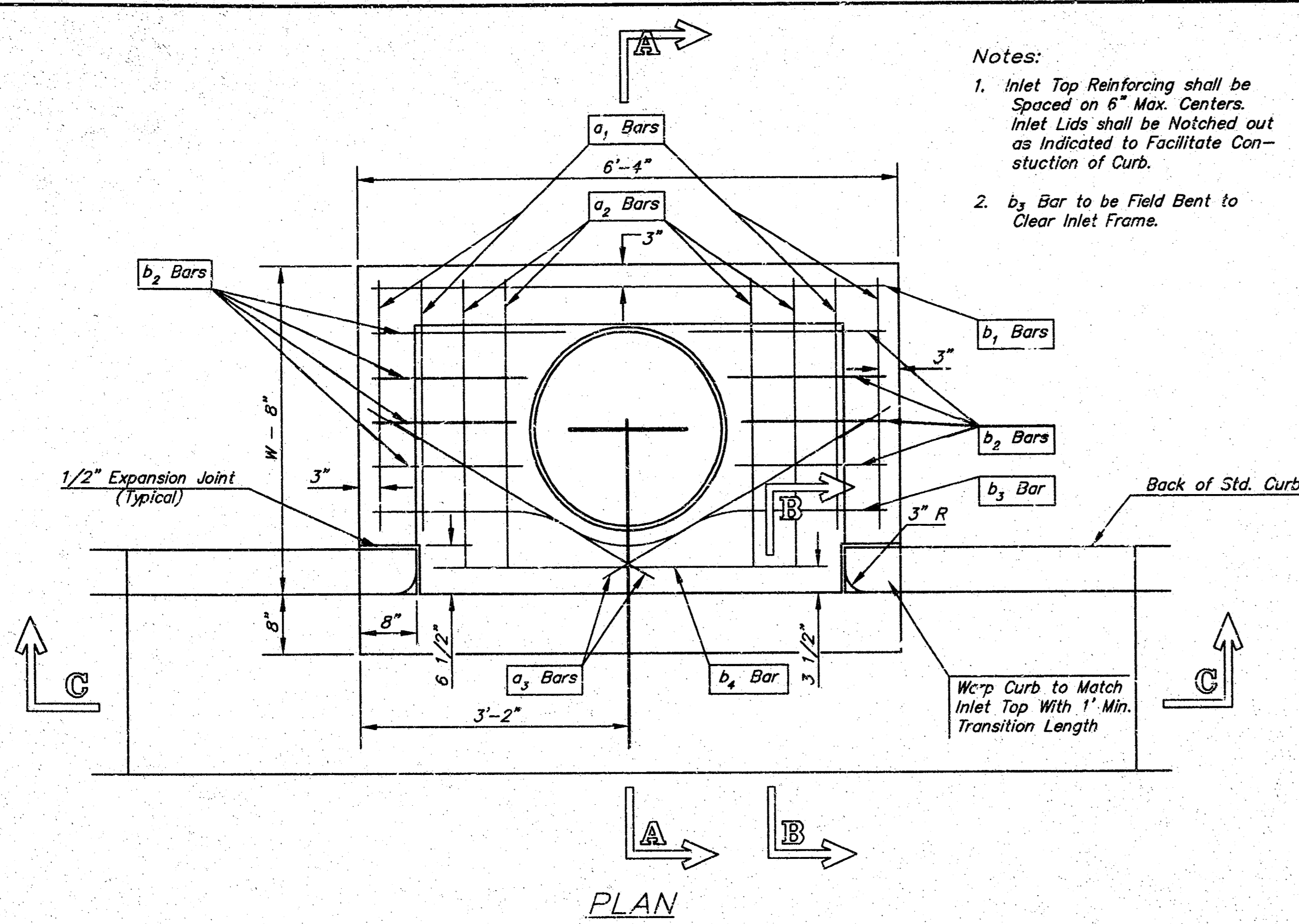


Double 24" x 24" Frame Detail

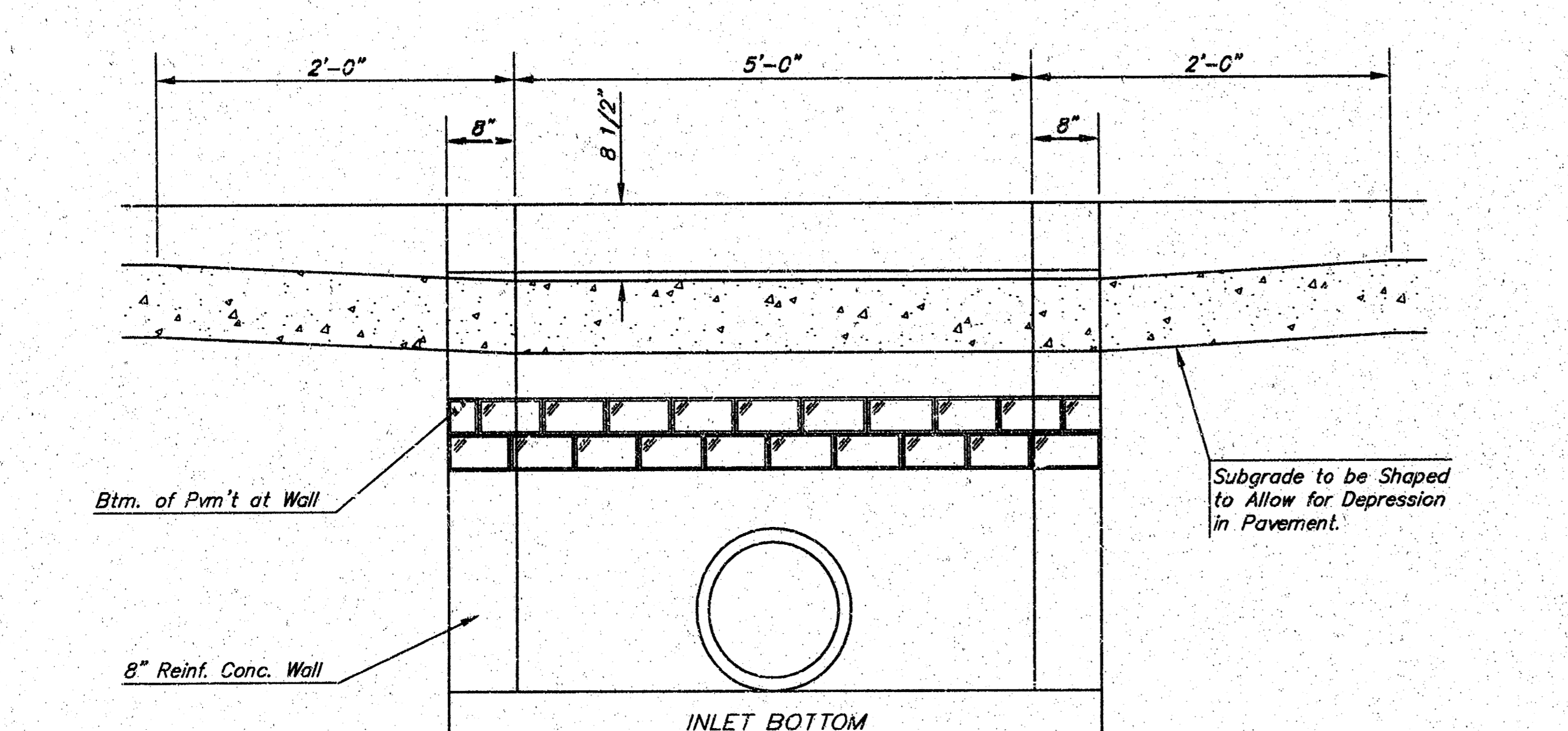


<p>THE CITY OF WICHITA</p> <p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-2001 (316) 268-5114 FAX</p>	DROP INLET	
	2' X 2'/2' X 4'	
	M. E. LINDEBAK P.E. - CITY ENGINEER	
	PROJECT NUMBER 1283 PPS	INDEX CODE 607861
DATE MAR 96	SHEET 7 OF 10	

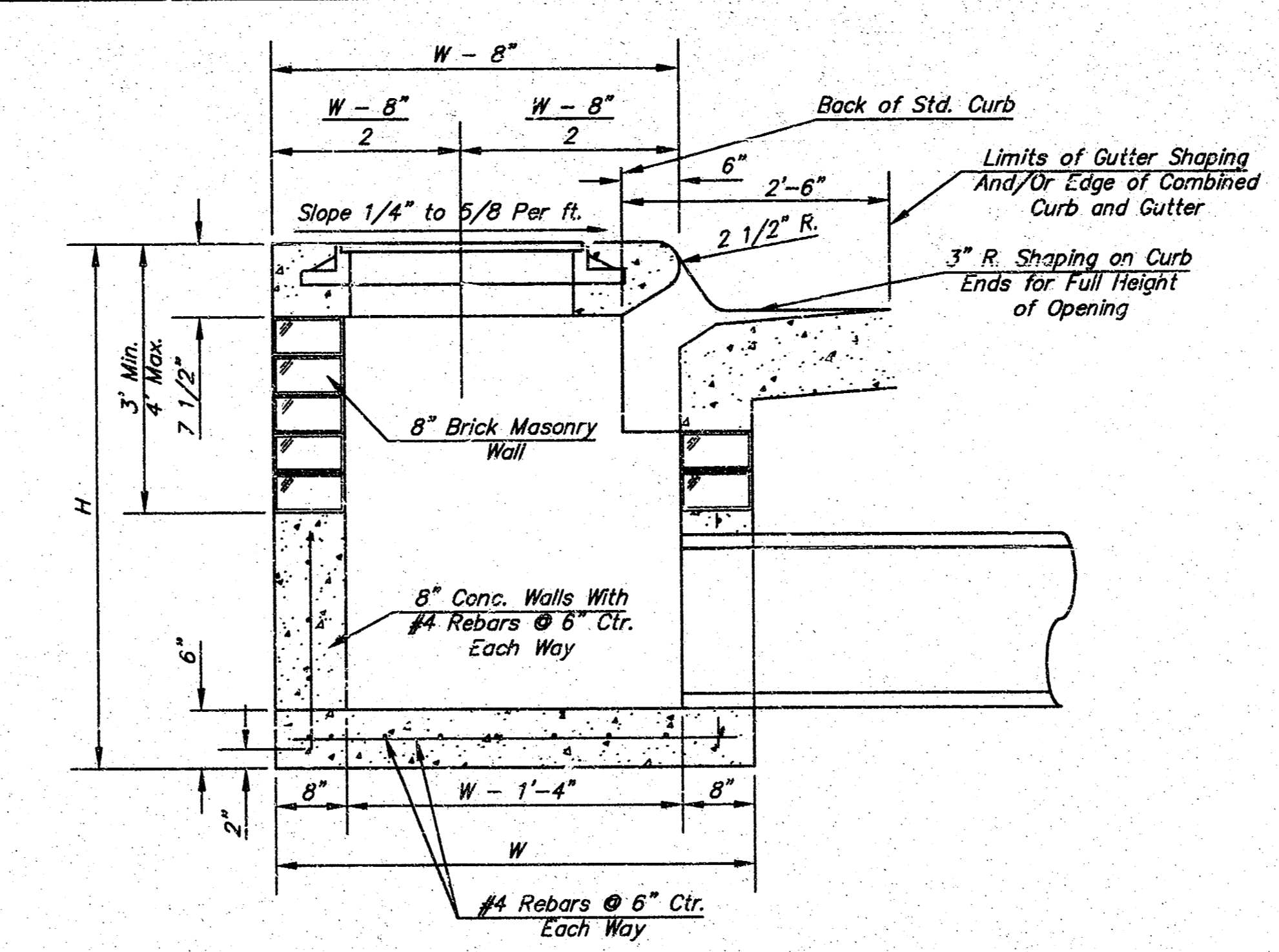
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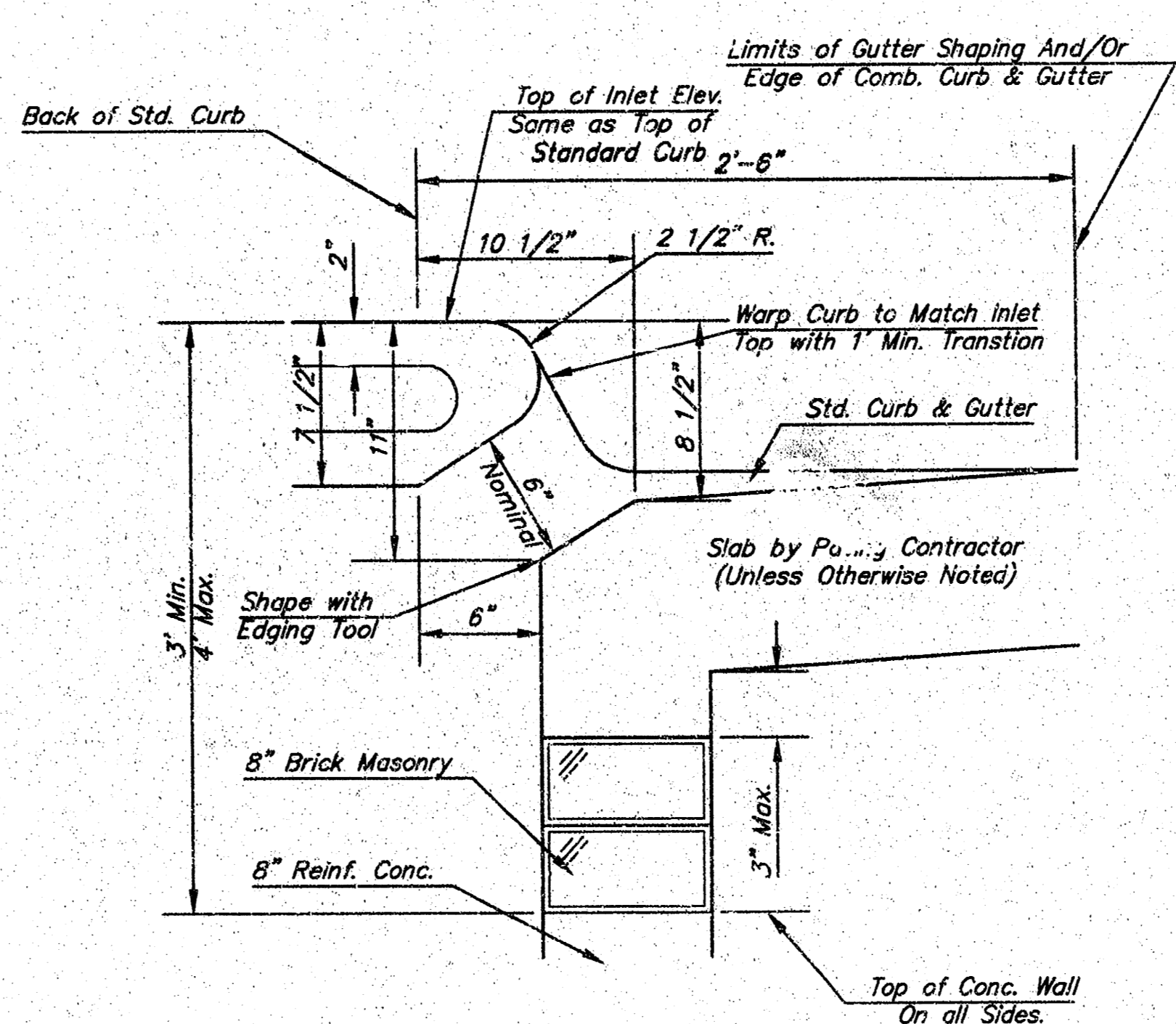
Notes:
 1. Inlet Top Reinforcing shall be Spaced at 6" Max. Centers. Inlet Lids shall be Notched out as Indicated to Facilitate Construction of Curb.
 2. b₂ Bar to be Field Bent to Clear Inlet Frame.



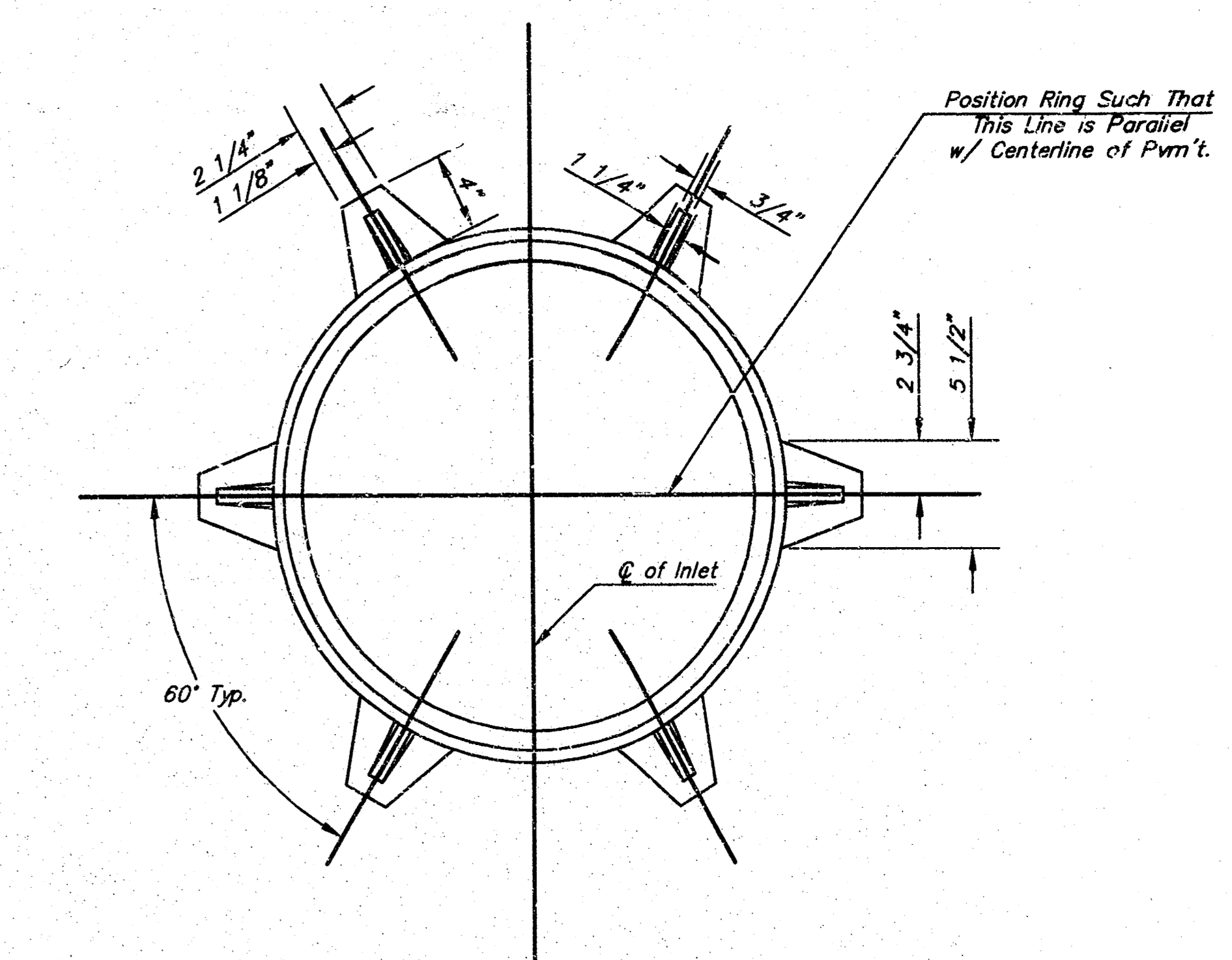
SECTION C-C



SECTION A-A

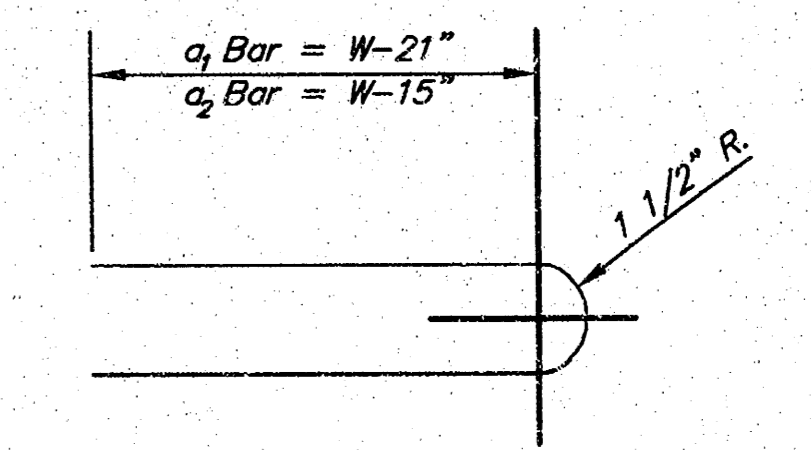


SECTION B-B



MANHOLE RING AND COVER

WT. = 180 lbs.
 *See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to be Used With Inlet Frame.



BENDING DIAGRAM

STEEL SCHEDULE

BAR NUMBER	a ₁	a ₂	a ₃	b ₁				b ₂	b ₃	b ₄	Wt. Lbs.	
				#4-4"	#4-5"	#4-6"	#4-7"					#4-8"
1	4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	60±
2	4'-4"	5'-7"	6'-7"	5'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	81±
3	4'-4"	5'-7"	6'-7"	6'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	101±
4	4'-4"	5'-7"	6'-7"	7'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	121±
5	4'-4"	5'-7"	6'-7"	8'-0"	6'-1"	-	-	-	1'-9"	6'-2"	4'-8"	141±

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"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-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±

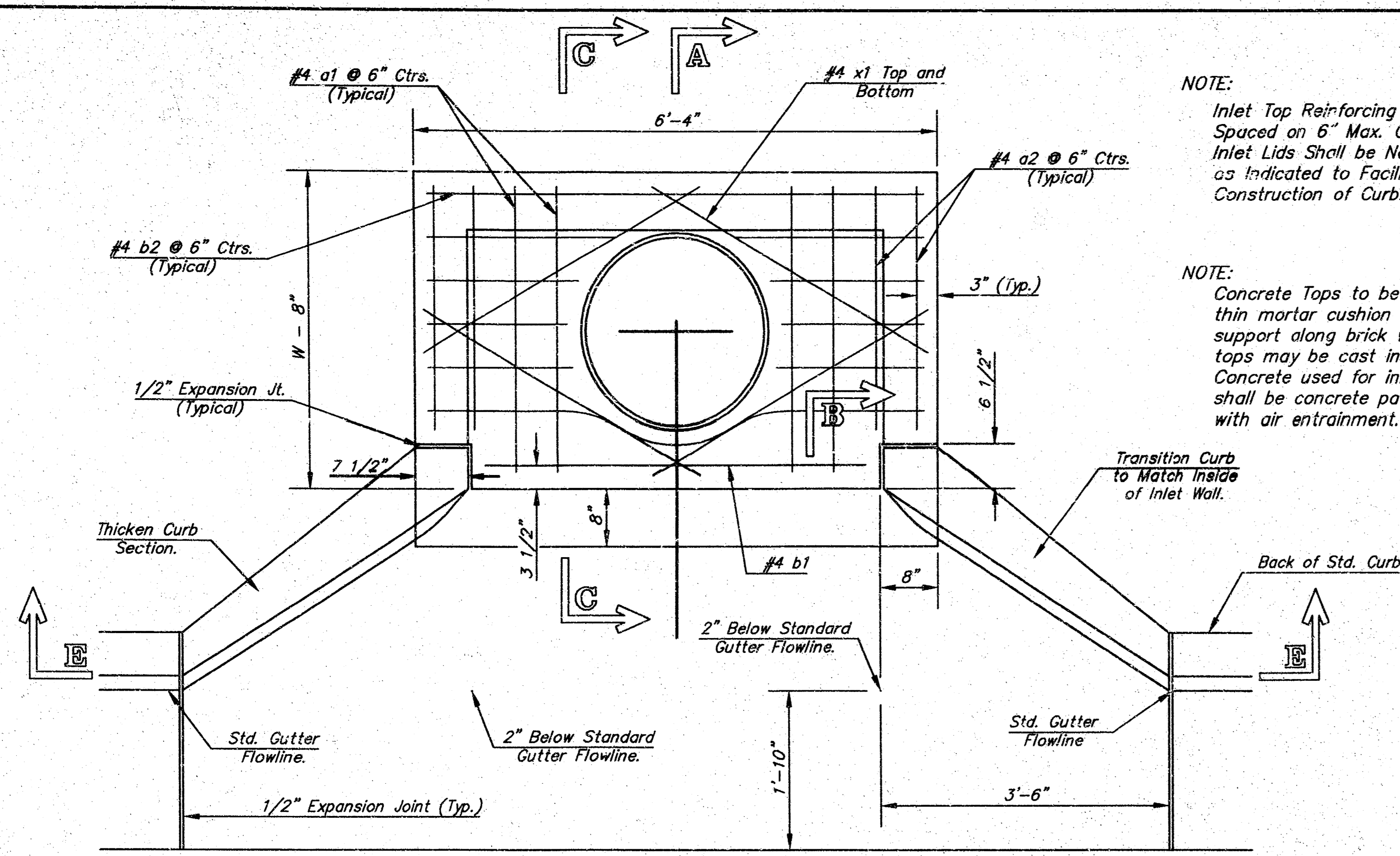
- GENERAL NOTES
- Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete top may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
 - Contractor shall have the option of constructing 8" brick masonry walls 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
 453 NORTH MAIN STREET
 WICHITA, KANSAS 67202
 (316) 265-4261
 (316) 268-5114 FAX

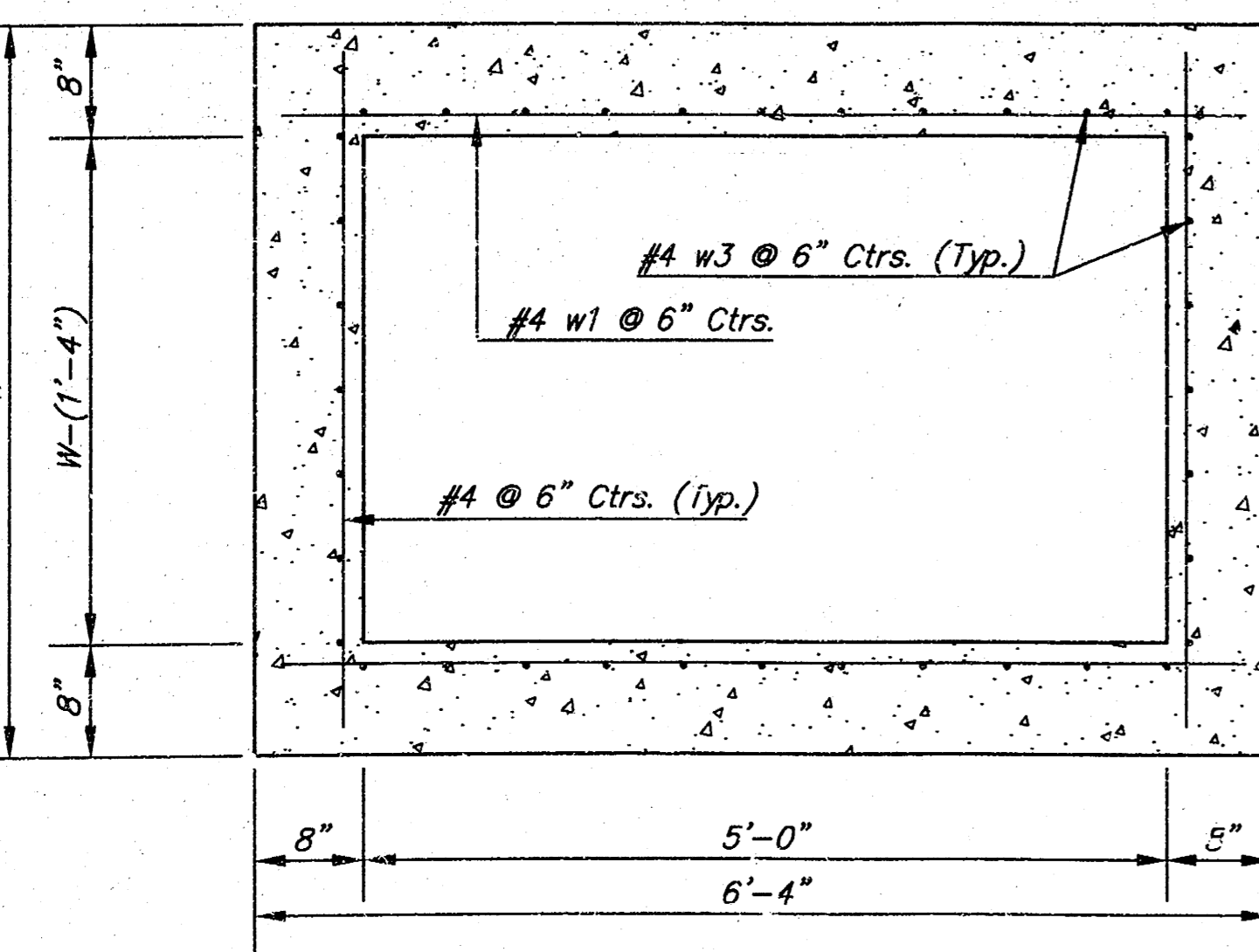
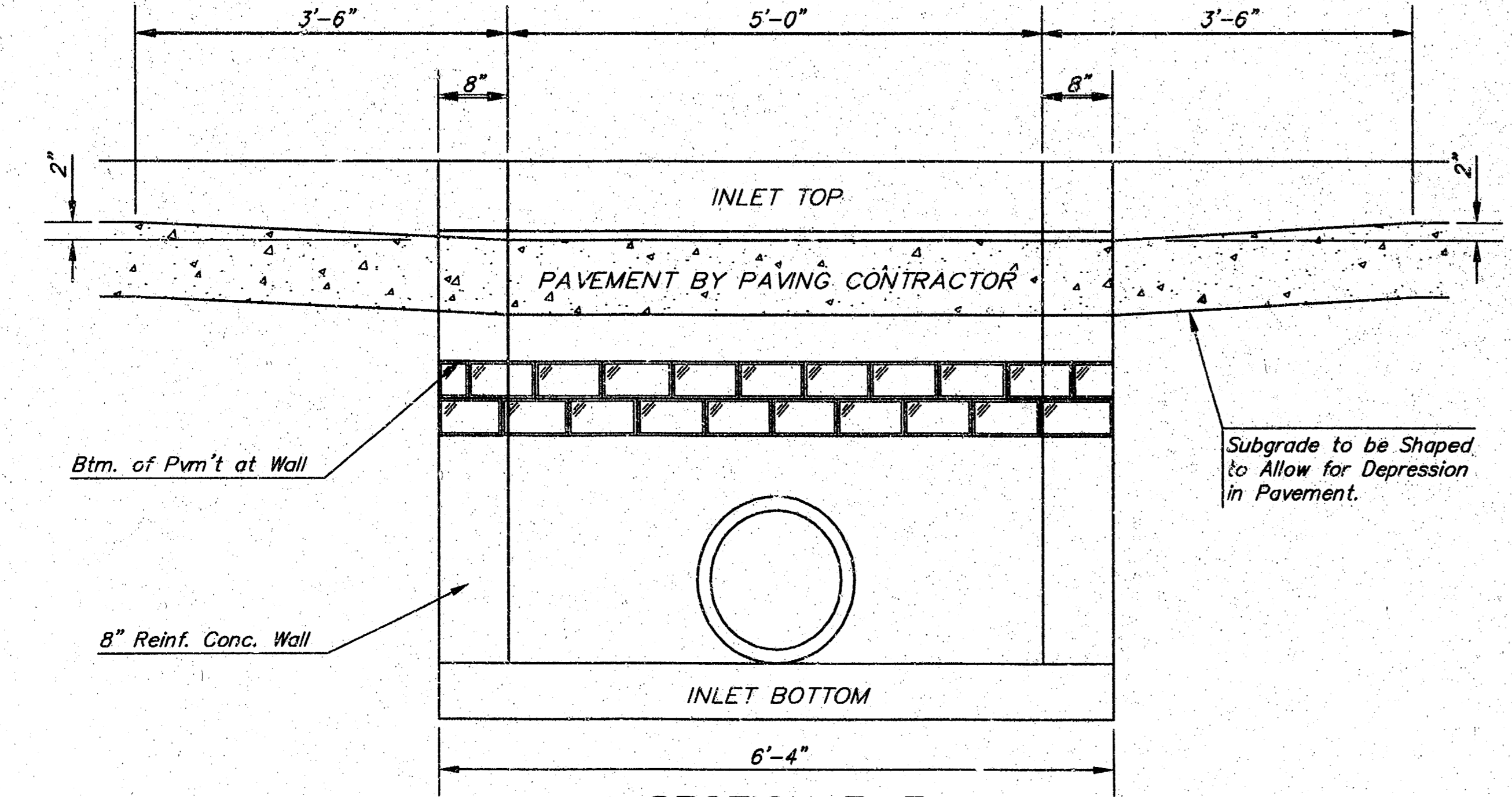
**STANDARD TYPE 1
 CURB INLET**
OPENING = 6" x 5'-0"

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

PROJECT NUMBER 1283 PPS	INDEX CODE 607861
DATE MAR 96	SHEET 8 OF 10



NOTE: Expansion Joint Only in Curb Area With Concrete Pavement.



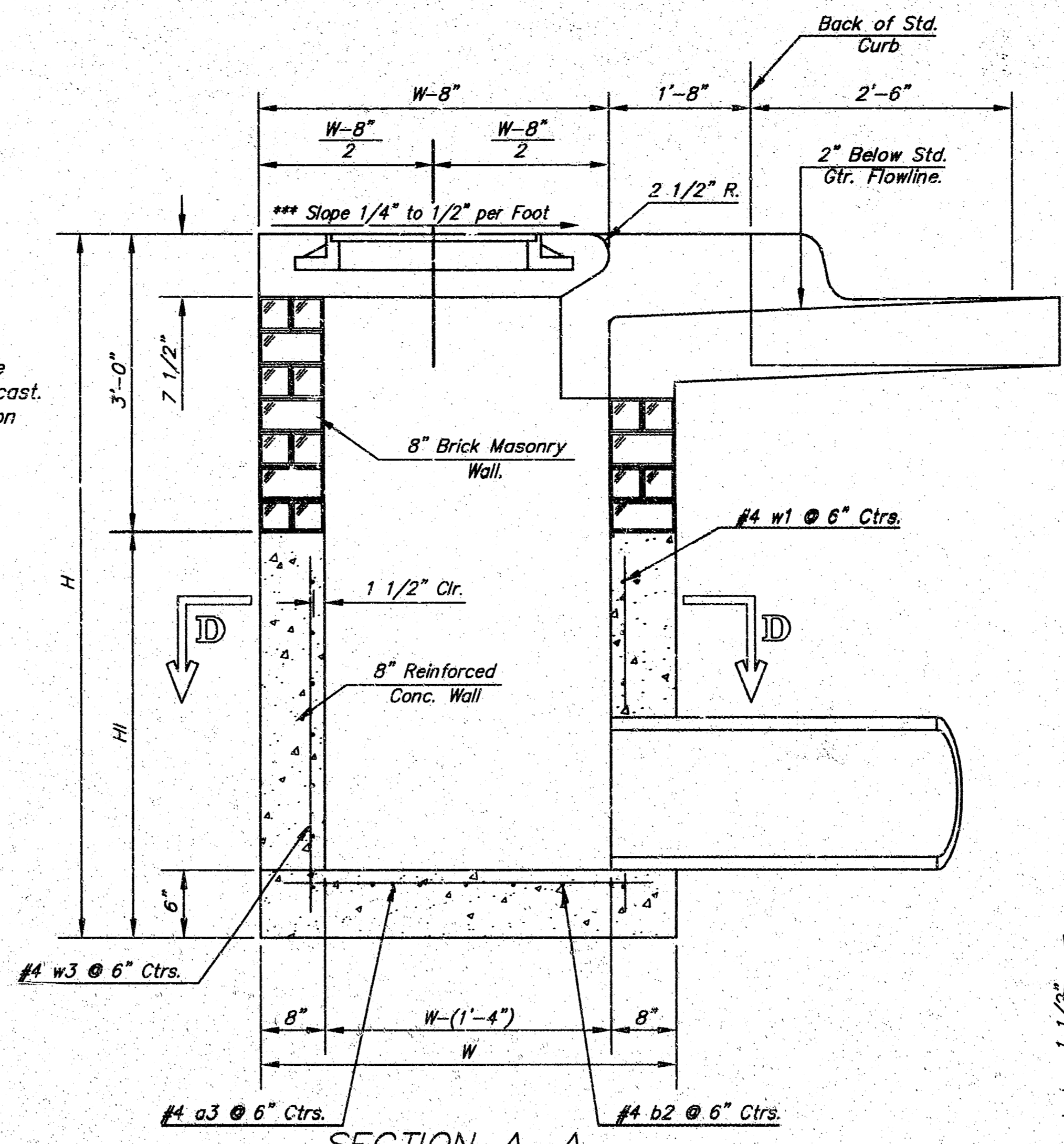
NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for the unit price bid for each inlet hookup.

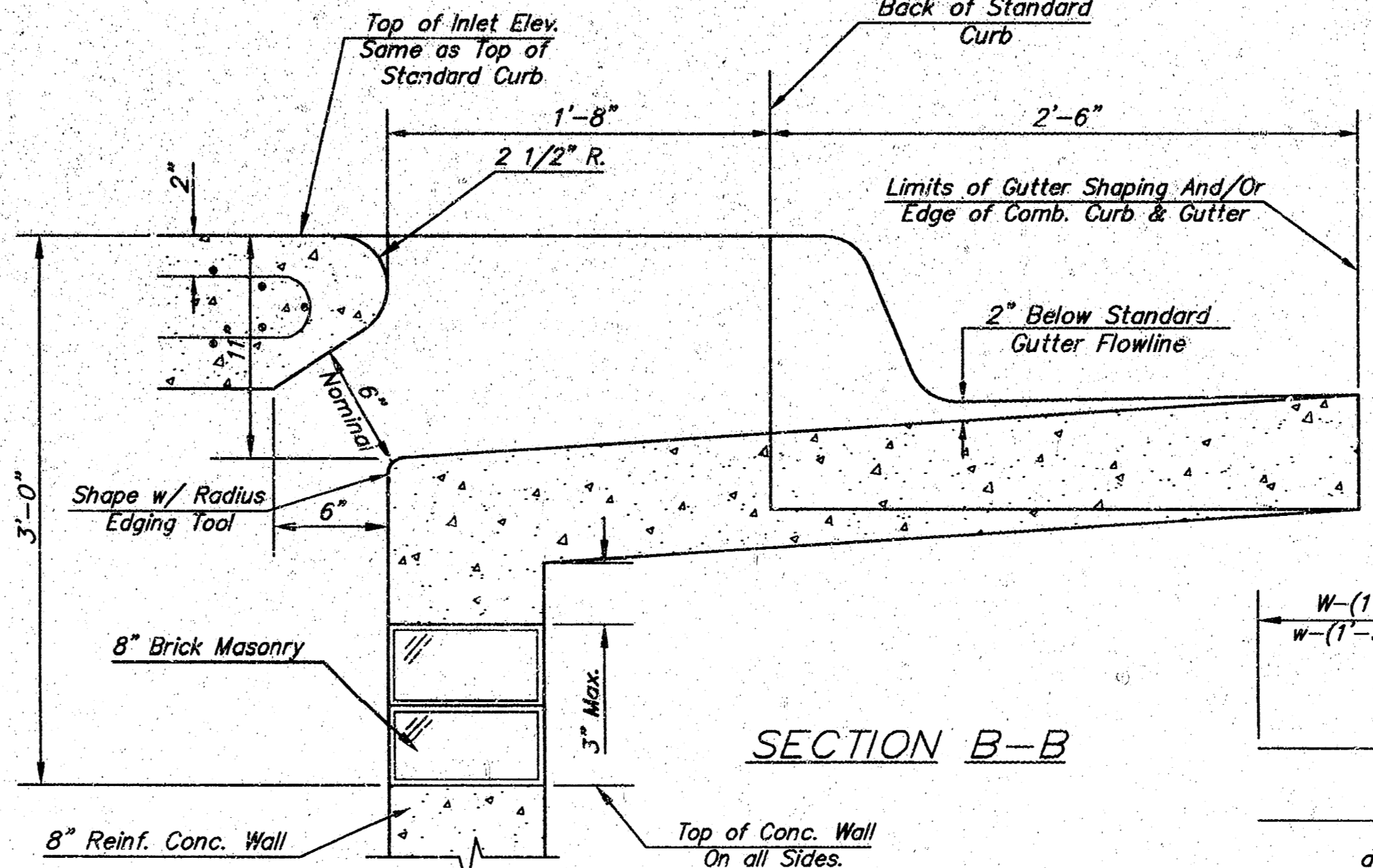
Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self-cleaning between all inlet and/or outlet pipes.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

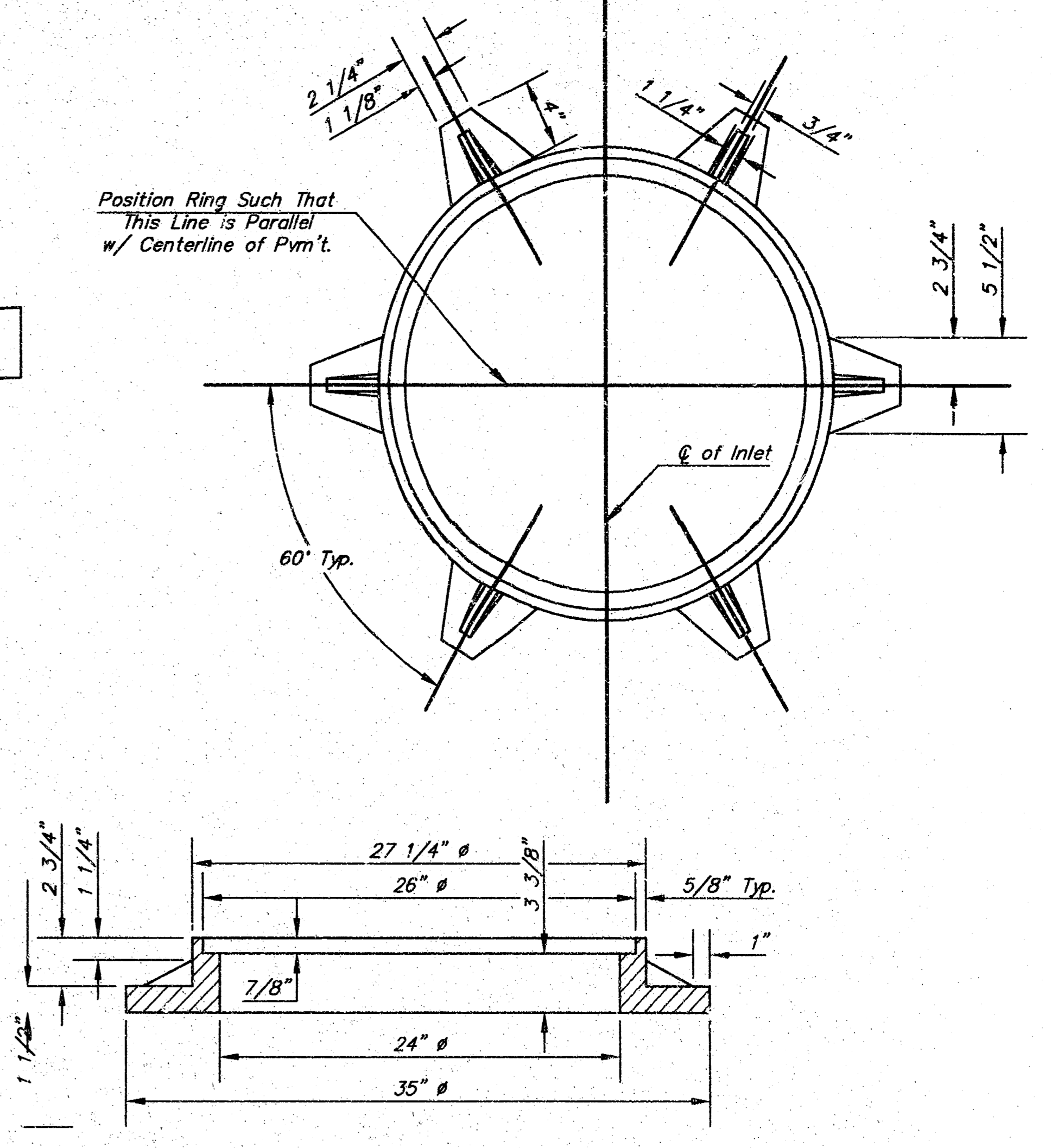
NOTE: Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.



SECTION A-A
***NOTE: Slope of inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.

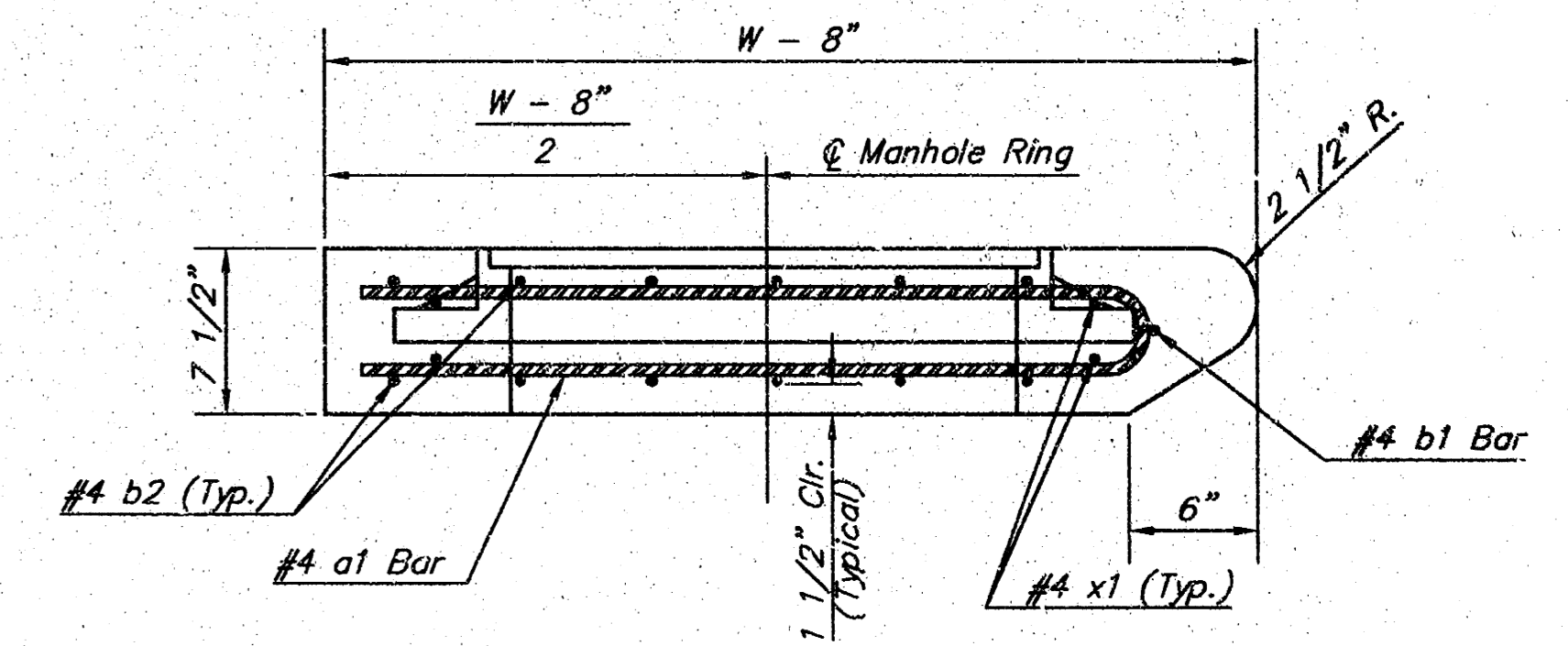


SECTION B-B

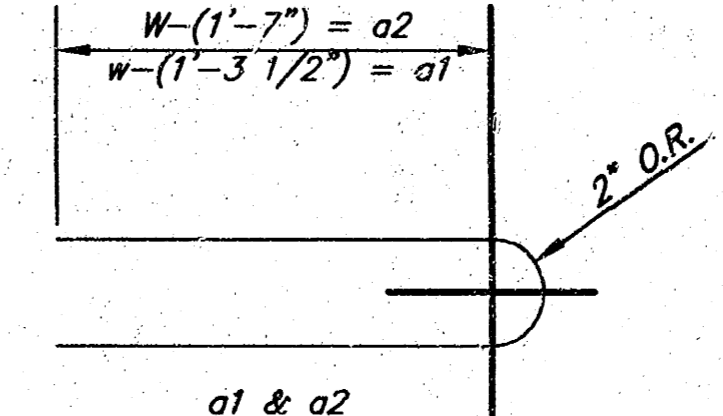


MANHOLE RING AND COVER

Weight = 180 Lbs.
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



SECTION A-A



BENDING DIAGRAM

PRECAST SLAB AND FLOOR REINFORCING											
MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
* a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	7	4'-9"	7	4'-9"	7	4'-9"	7	4'-9"	7	4'-9"
* b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

WALL REINFORCING											
MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
w3	#4	32	2	36	2	40	2	44	2	48	2

* Field Bend or Cut Reinforcing as Required for Clearance.
 ① 4 (H - 12") (H - 21") Rounded down to nearest 0.5"
 ② H - 3"

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.90±

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
402 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-6511
(316) 268-4114 FAX

**STANDARD TYPE 1-A
CURB INLET
OPENING = 6" x 5'-0"**

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

PROJECT NUMBER: 1283 PPS INDEX CODE: 607861

DATE: MAR 96 SHEET 9 OF 10

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