

STORM WATER SEWER IMPROVEMENTS TO SERVE

RUSTY ECK FORD 7310 E. KELLOGG DRIVE

Project Number

1374 PPS (607861)

CITY OF WICHITA, KANSAS

Neil D. Cable, P. E., City Engineer

GENERAL NOTES

- Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

Cox Communications 262-4270
or 263-2061
Westar Energy 383-2600
SBC 1-571-2611
City of Wichita Water Department 268-4908
City of Wichita Sewer Department 268-4071
Kansas Gas Service 832-3168
or 832-3167

- Exist. 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 Contractor will be required to work around existing utilities which do not conflict with proposed construction.

- The Contractor to verify utility locations prior to construction of this project.

- Utility service and installation shall be coordinated with the respective utility owners. Contacts are:

Kansas Gas Service Jim Stoltz 832-3122
Westar Energy Russ Chitwood 261-6251
Wichita Water Chuck Steven 268-4555
Joe Botinelly 268-4908
SBC Jim Tobin 268-2759

- All areas disturbed by construction shall be seeded with rye Rebel II Fescue grass at a rate of 350 lbs./acre immediately following construction in that area.

- Traffic affected by the construction of this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.

- All lawn/turf areas disturbed by construction of proposed improvements shall be restored with the same grass/ sod as existing. Restoration of disturbed areas shall include, but not be limited to, top soil preparation, seeding, mulch and/or reseeding. All seeding/sodding work shall be in accordance with the City of Wichita standard specifications and the City of Wichita administrative regulation No. AR78 which governs cleanup and replacement following construction. All costs for this work shall be subsidiary to the lump sum price bid for "Site Restoration."

- Cuts made to paved surfaces on public property will be repaired by the City's contractor and charged against the owner/applicant. Unit repair prices are available from the City at 268-4418. A surcharge may be applicable: call 268-4418 for details.

BENCHMARK:

"X" Cut SW Cor. Bridge
86.29 ft. W & 41.54 ft. S of
Centerline of Intersection
Armour & Kellogg

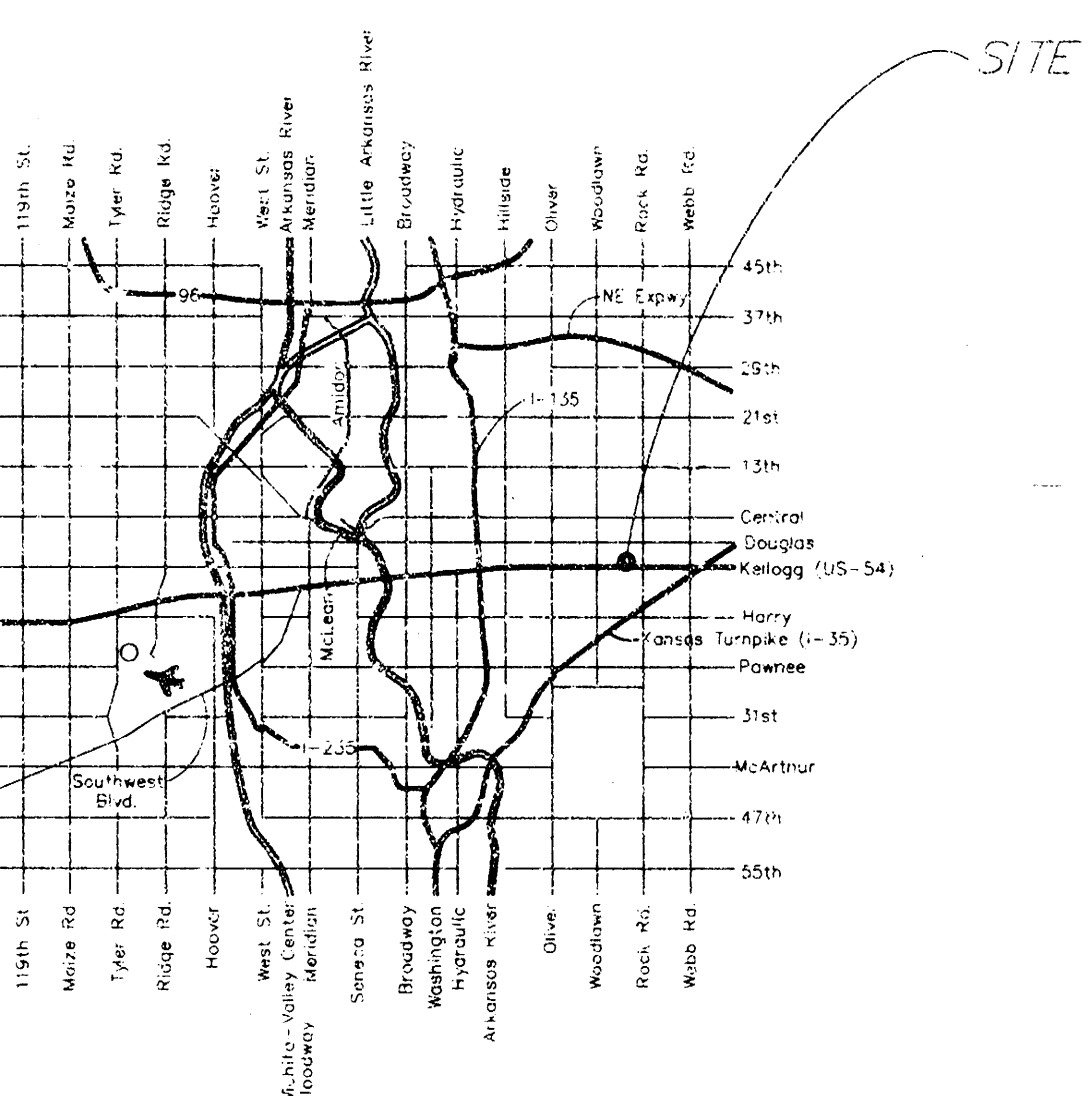
Armour and Douglas
NE Corner PCBC
Elev.=1354.73
Elev.=167.33 (City Datum)

INDEX

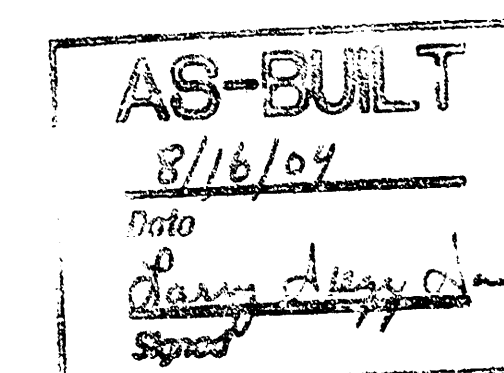
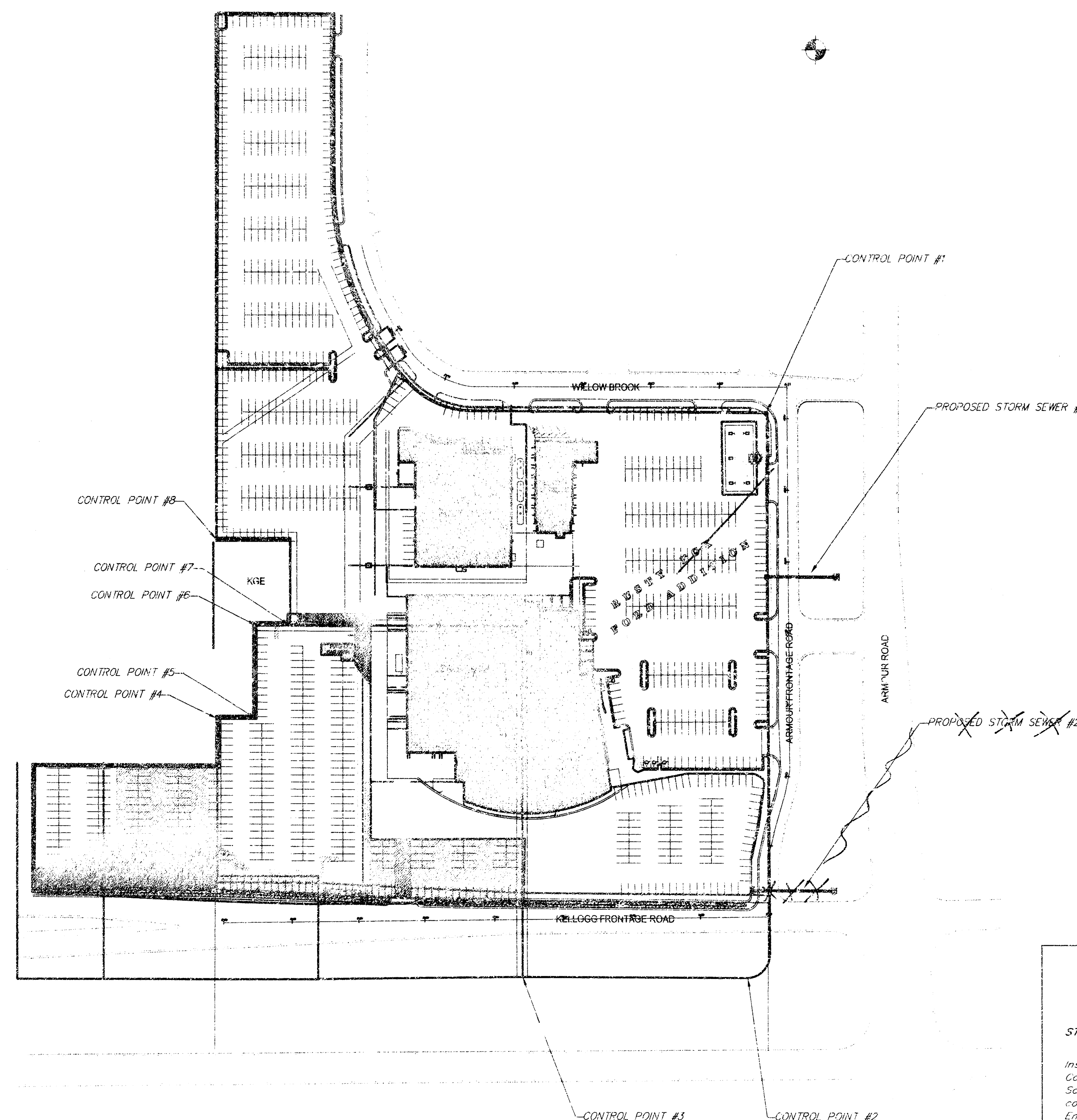
1 Cover
2-3 SWS Plan and Profile
4-6 Inlet Detail's

CONTROL POINTS

CP #1, 3/4" IP, N=5756.0765, E=9999.9901
CP #2, 1/2" IP, N=4966.2515, E=9966.7849
CP #3, 3/4" IP, N=4968.6081, E=9636.8339
CP #4, 3/4" IP, N=5331.6496, E=9188.4179
CP #5, 3/4" IP, N=5331.5940, E=9246.1060
CP #6, 1/2" IP, N=5461.3135, E=9246.9371
CP #7, 1/2" IP, N=5460.7403, E=9297.0710
CP #8, 3/4" IP, N=5580.8745, E=9189.5946



LOCATION MAP



APPROVED AS NOTED BY CITY ENGINEER OF WICHITA

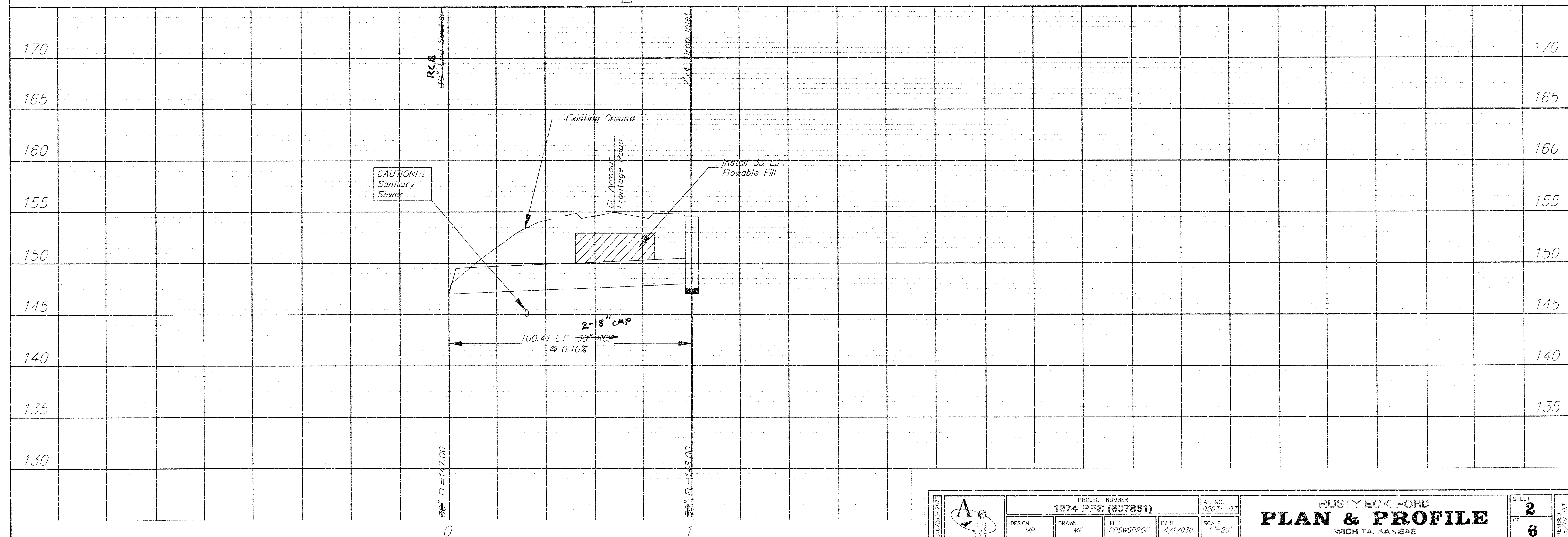
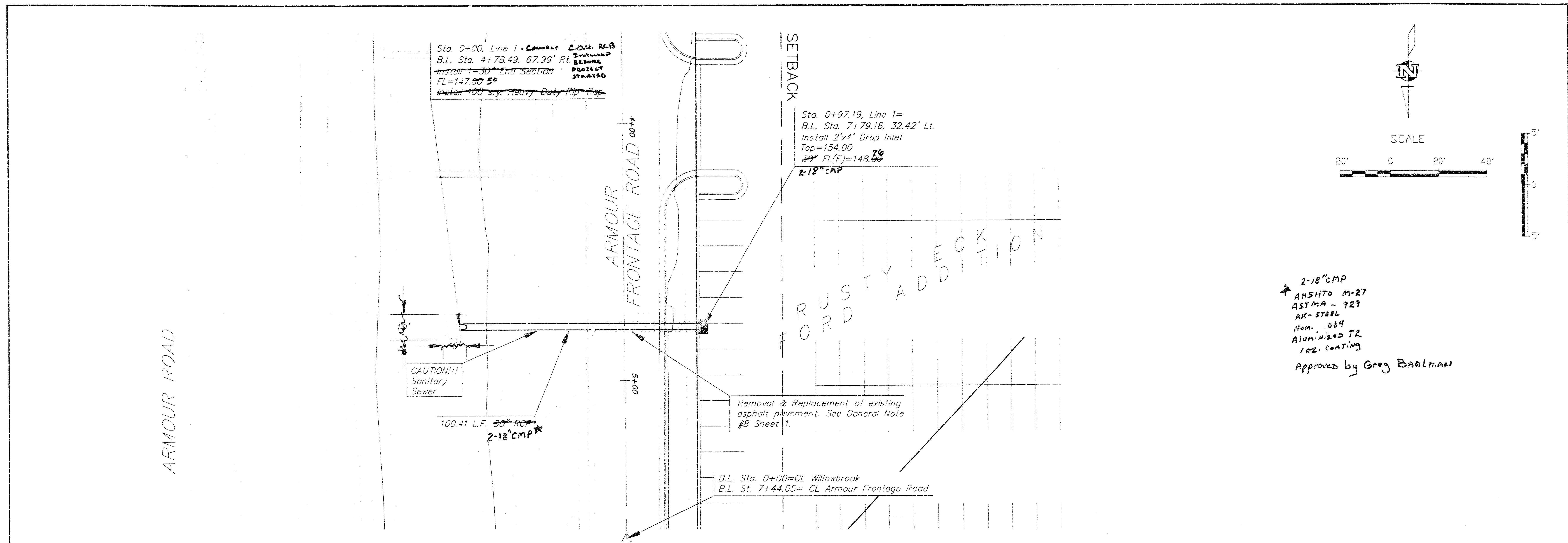
STORM SEWERS VRH 8/20/03

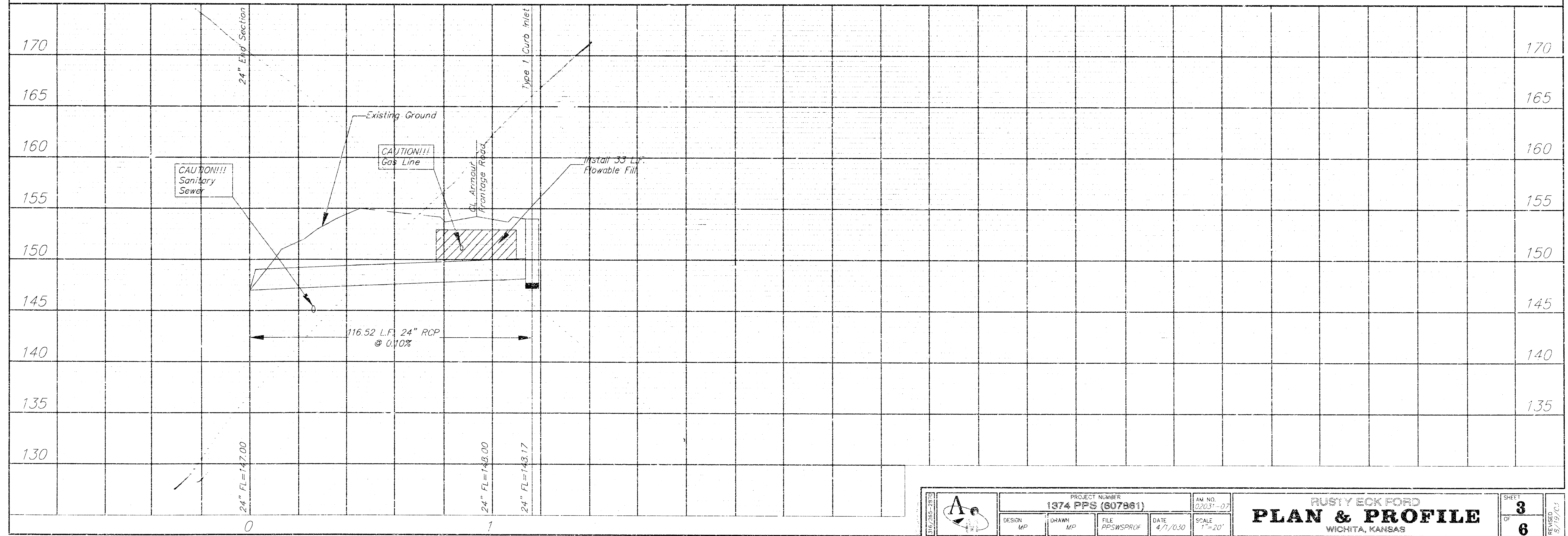
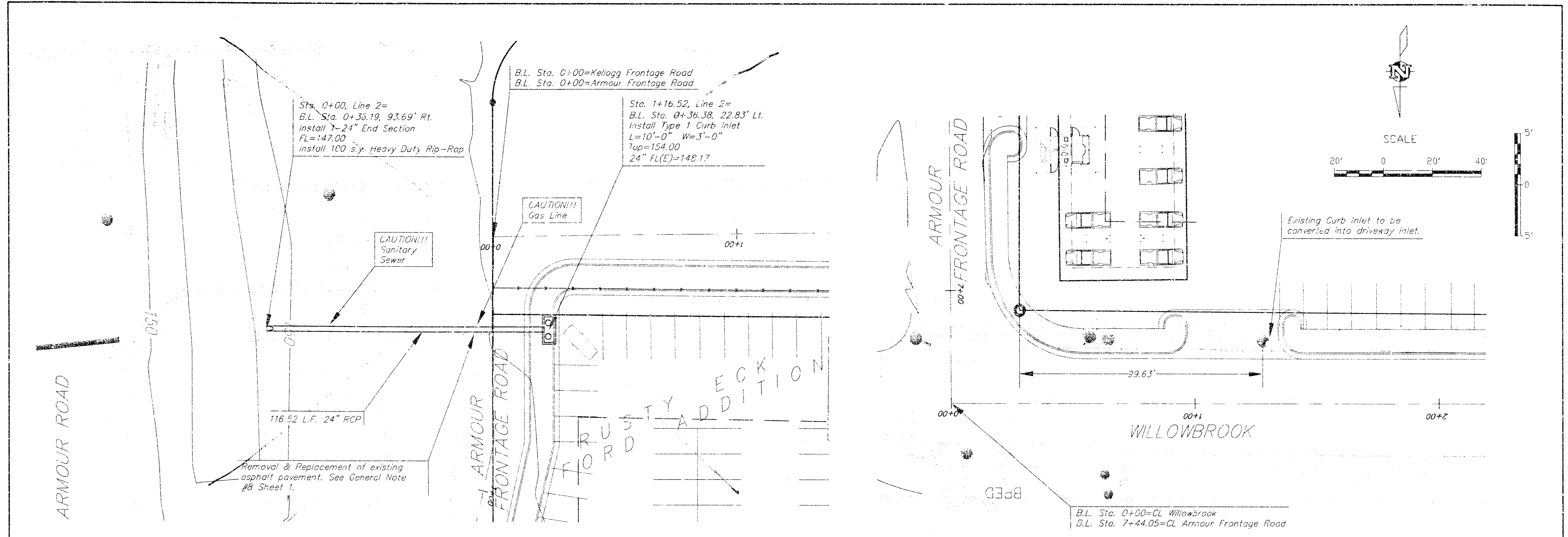
Inspection and testing for this project are to be provided by a Licensed Consulting Engineering firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall work be commenced without written authorization by the City Engineer. All construction and materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

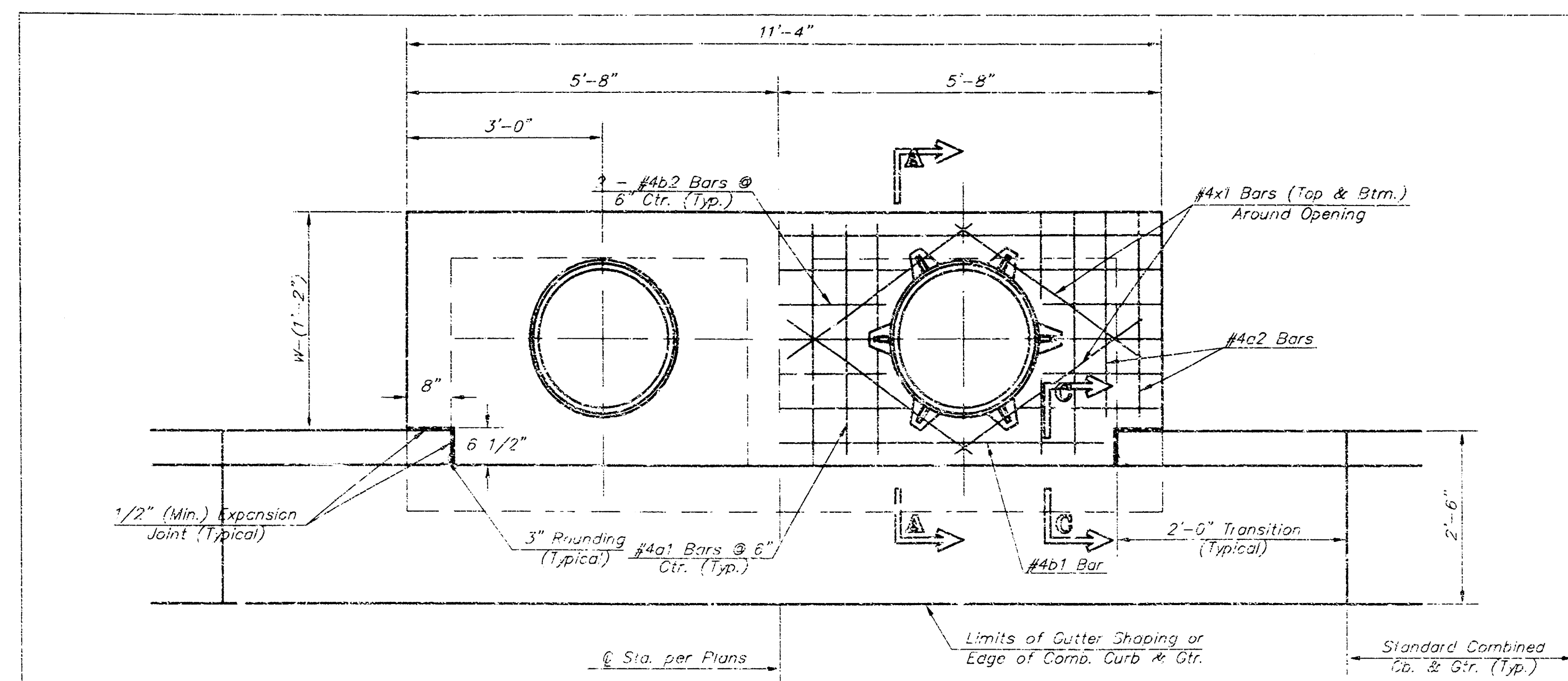
APR 6/10/03



ENGINEERING SERVICES
142 N. Emporia Wichita, KS 67202
316/265-2870 Fax: 316/265-2839

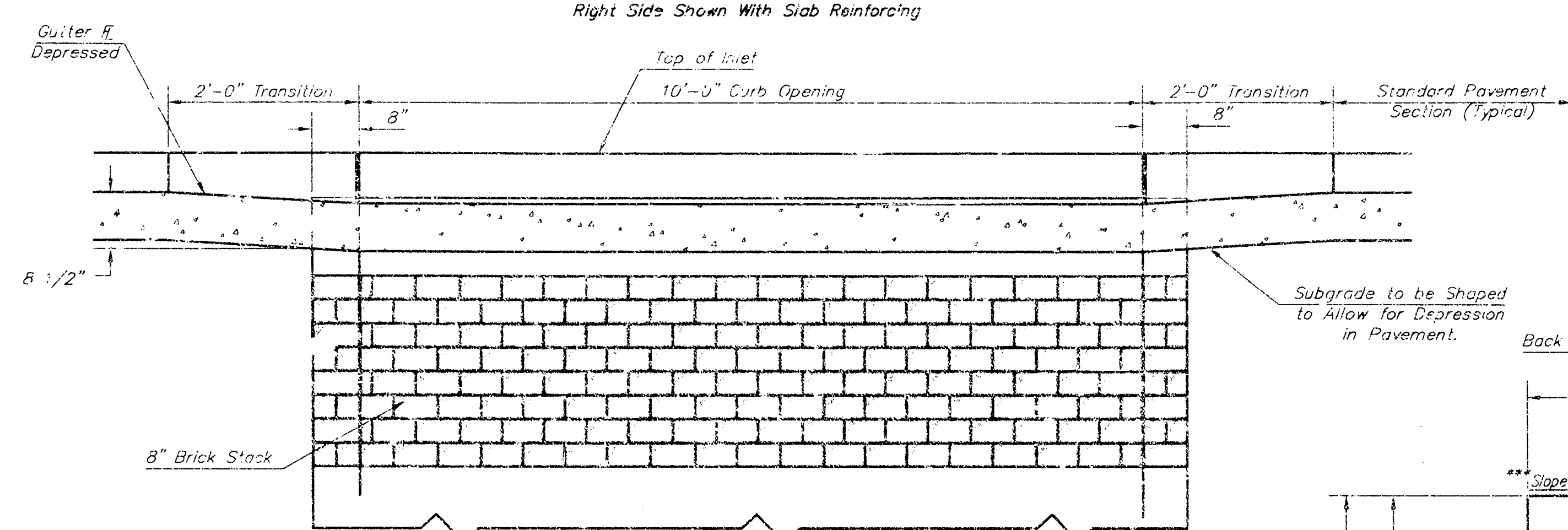




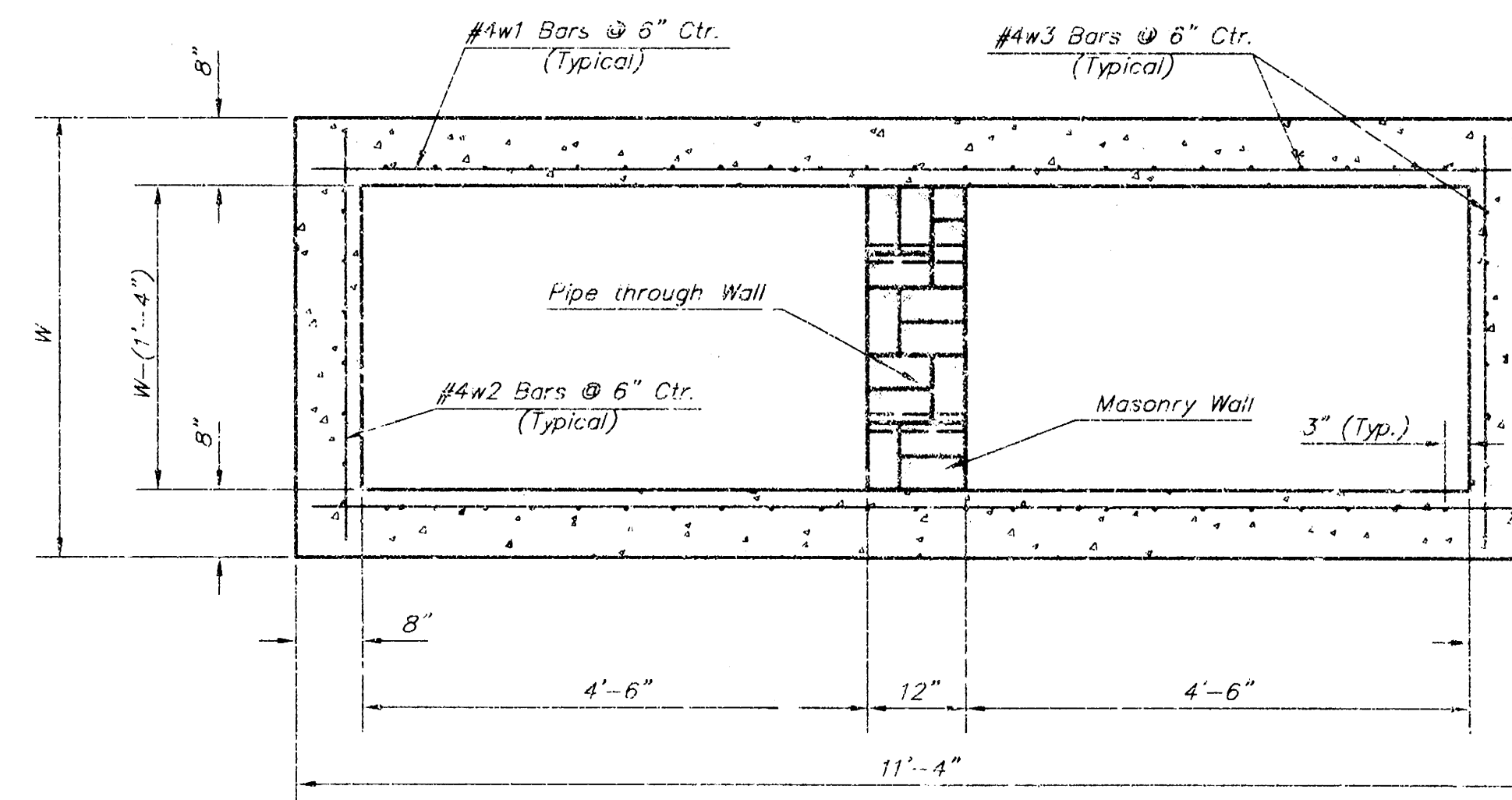


PLAN

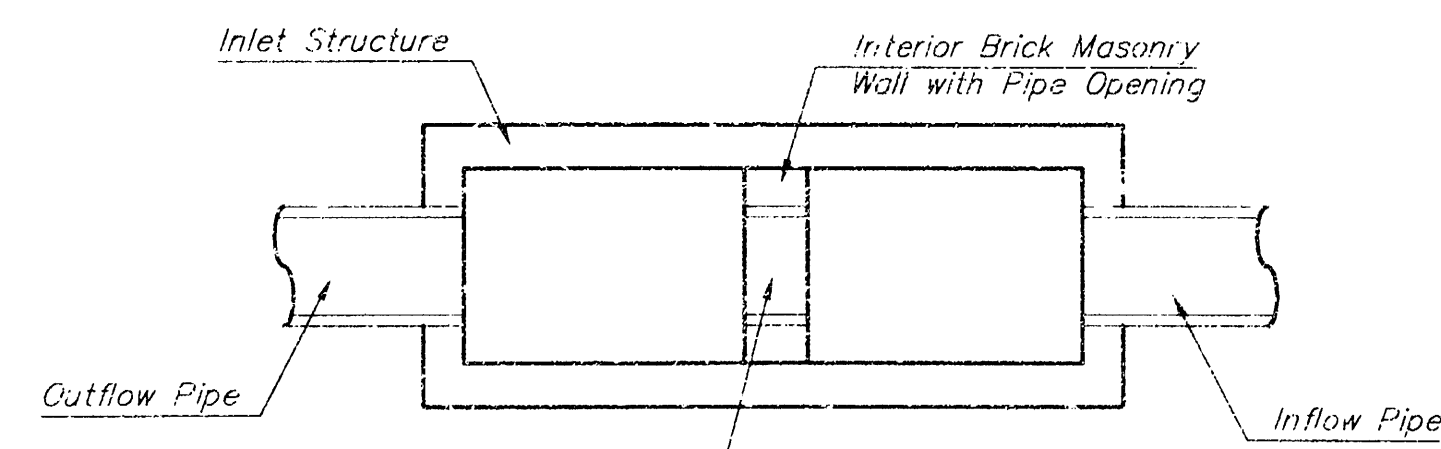
*Left Side Shown Without Slab Reinforcing,
Right Side Shown With Slab Reinforcing



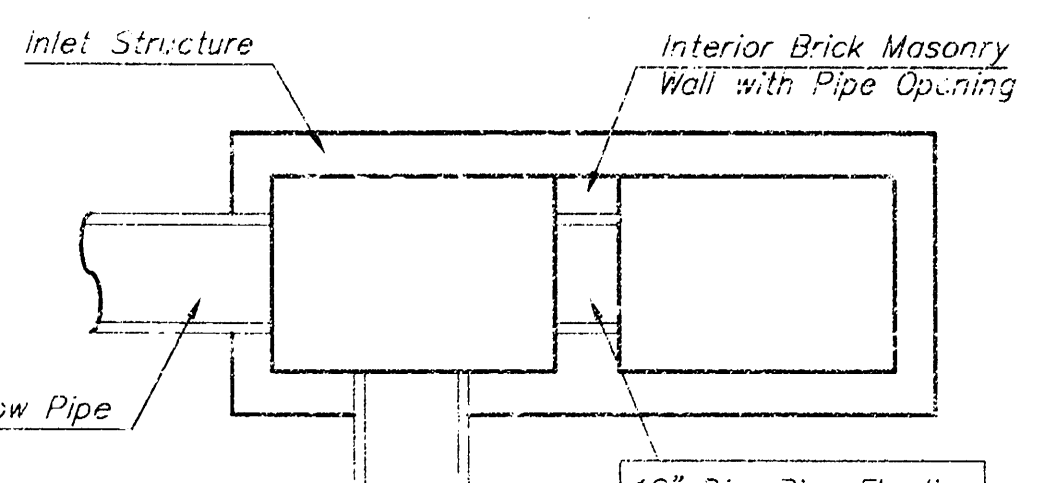
ELEVATION



SECTION B-B

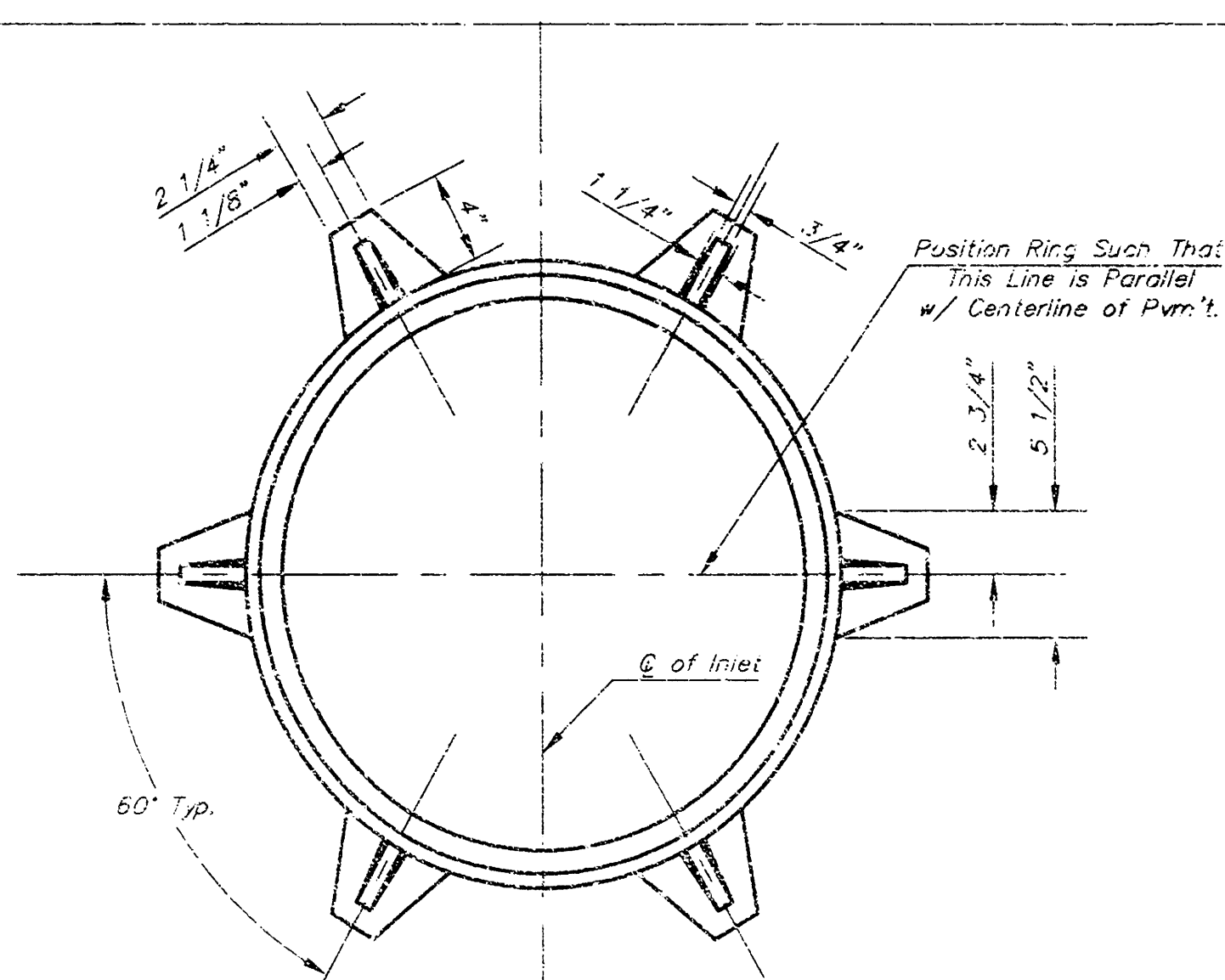


CASE I



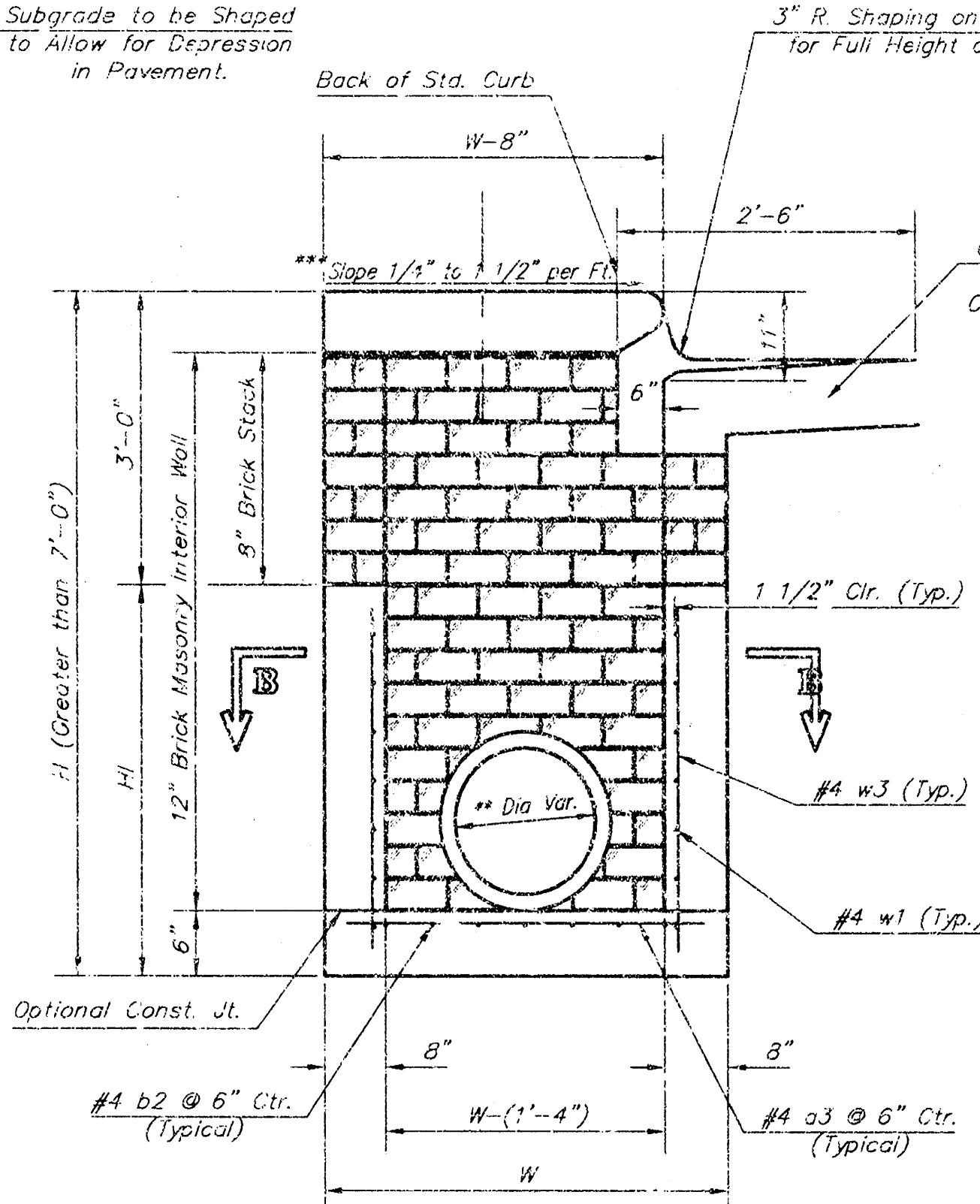
CASE II

NOTE:
Center Wall Pipe Size shall be as
Specified in Inlet Construction Notes
on the Plan/Profile Sheets for those
Cases not Shown Here.



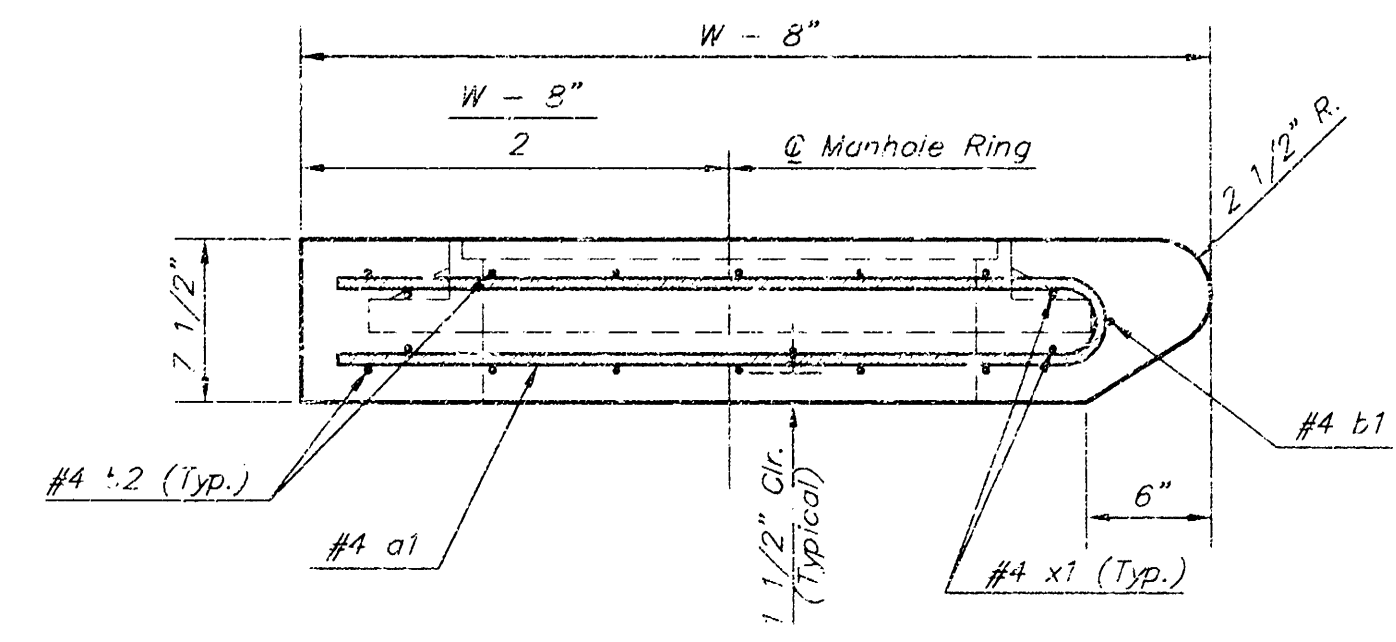
MANHOLE RING AND COVER

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



TYPICAL INLET
SECTION AT CENTER WALL
(REINFORCED CONCRETE WALLS)

NOTES:
** A center wall opening shall be provided by
means of a section of reinforced concrete
pipe. See Case I and Case II below.
*** Slope of inlet tops to match sidewalk of
parking slopes within limits indicated



SECTION A-A

PRECAST SLAB AND FLOOR REINFORCING											
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-7"	13	3'-7"	13	10'-7"	13	12'-7"	13	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1"	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
a2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
a1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	5'-2"

WALL REINFORCING											
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"	1	11'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
w3	#4	52	2	56	2	60	2	64	2	68	2

* Field Bend or Cut Reinforcing as Required for Clearance.
① A (H = 12") (14" - 21") Rounded down to nearest 0.5"
② H = 3"

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	TYPE SIZE	CU. YD. CON.
4'-4"	3'-8" x 11'-4" x 7 1/2"	21" & SMALLER	0.832
5'-4"	4'-8" x 11'-4" x 7 1/2"	24" & 30"	1.092
6'-4"	5'-8" x 11'-4" x 7 1/2"	36" & 42"	1.352
7'-4"	6'-8" x 11'-4" x 7 1/2"	48" & 54"	1.612
8'-4"	7'-8" x 11'-4" x 7 1/2"	60" & 66"	1.872

BENDING DIAGRAM

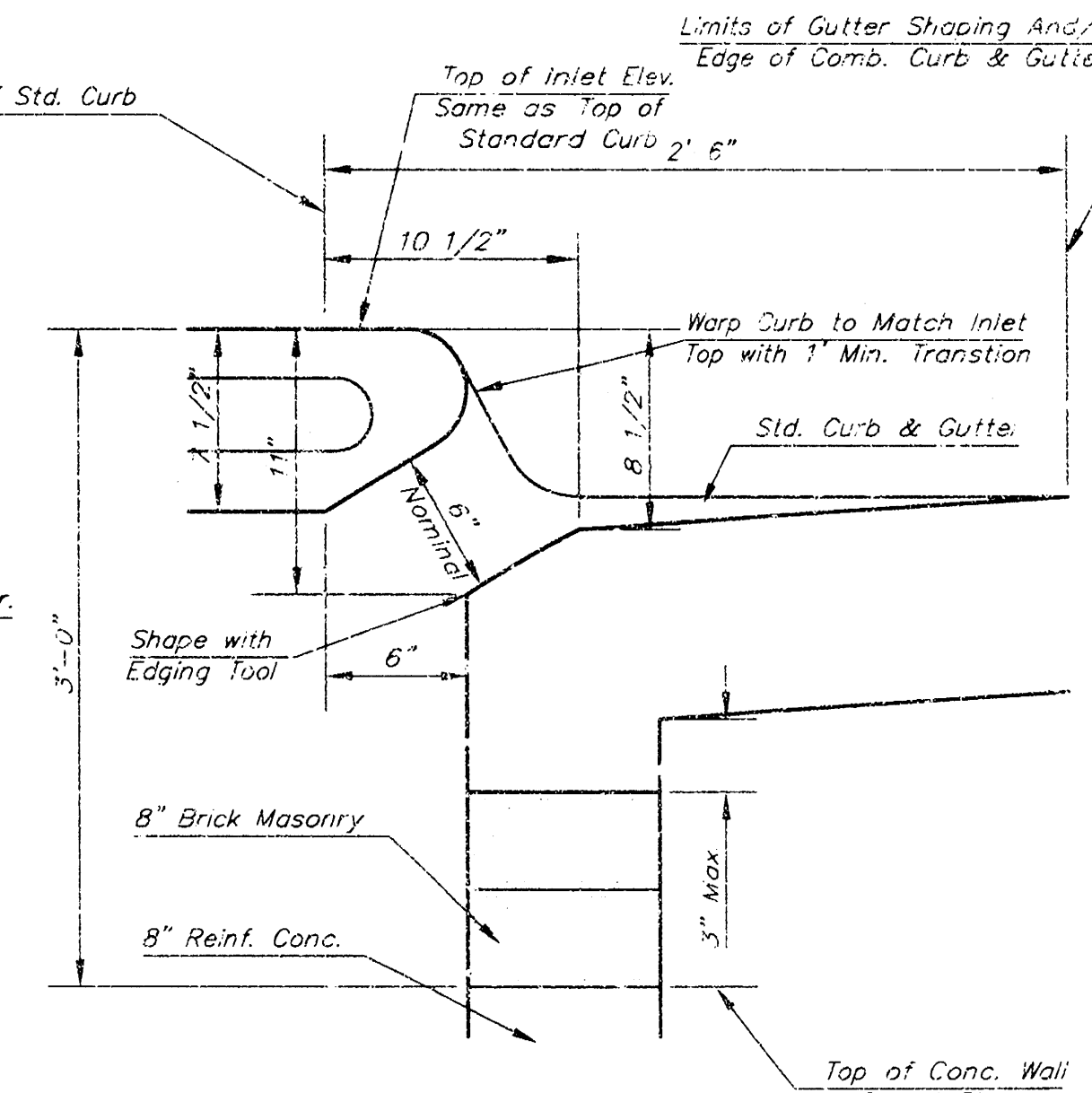
GENERAL NOTES:

Concrete shall be C.O.W. standard paving mix. All
exposed edges shall be finished with an edging tool.
Reinforcing bars shall be field bent or cut to clear pipes
and inlet rings. All bars are #4 bars @ 6" spacing and shall
have a minimum clearance of 1 1/2" unless otherwise noted.
Floors of inlet shall be shaped with 8 sack sand mix
concrete to increase hydraulic efficiency such that the
inlet will be self cleaning between all inlet and/or outlet
pipes. The contractor will be required to construct 8"
brick masonry wall between the inlet base and top on this
inlet when H=7'-0" or less and W=6'-4" or less. When W is
greater than 6'-4" and H is less than 7'-0", the outside
inlet walls below the brick stack shall be reinforced
concrete construction.

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.

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

This detail is identical to the standard detail drawing
except that the gutter transition length is increased from
2'-0" to 3'-6".



SECTION C-C

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
400 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-2114 FAX

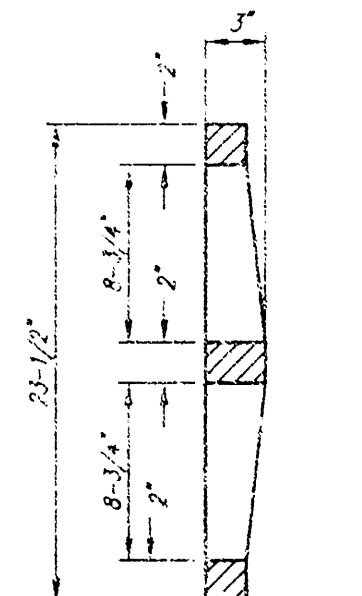
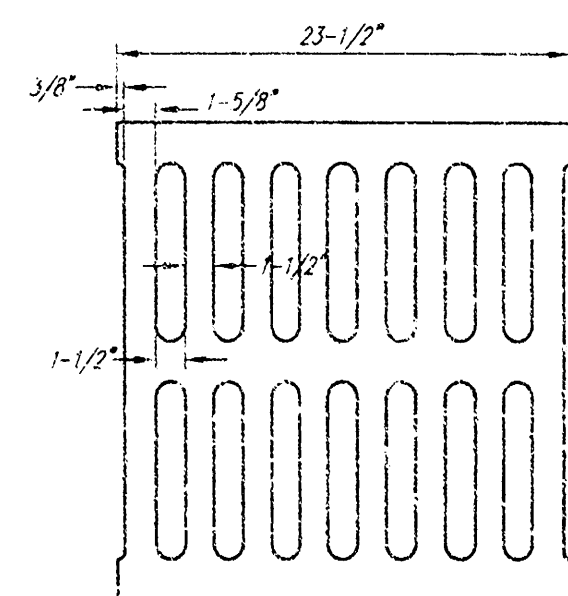
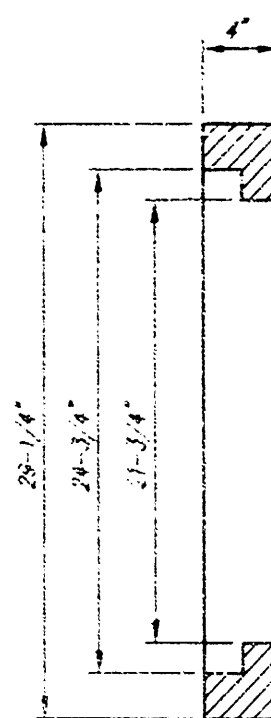
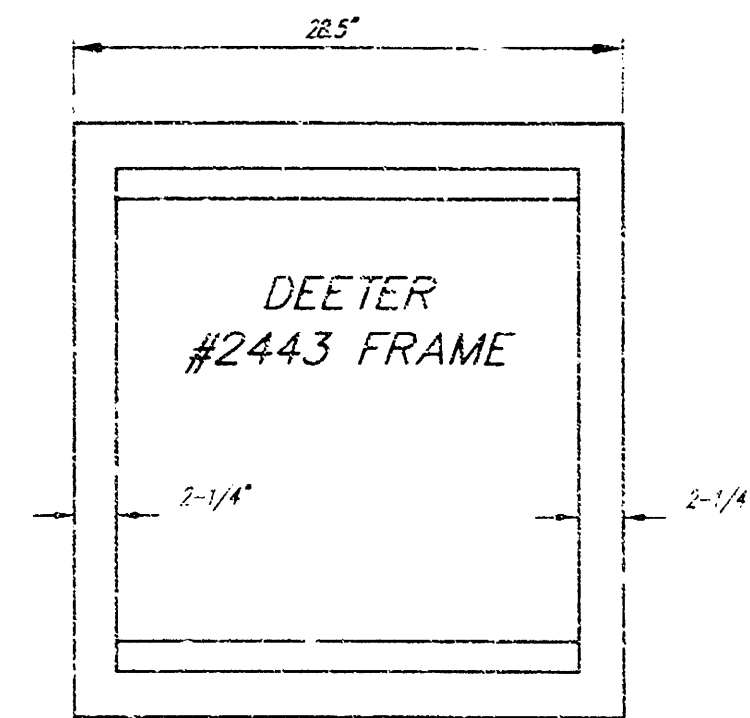
STANDARD TYPE 1
CURB INLET
OPENING = 6" x 10'-0"

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

PROJECT NUMBER XXX-XXXX	INDEX CODE XXXXXX
DATE MAR 96	SHEET X OF X

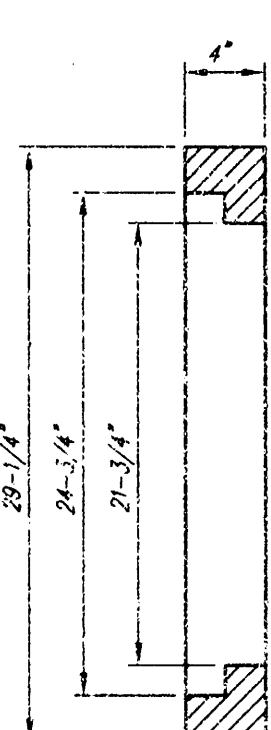
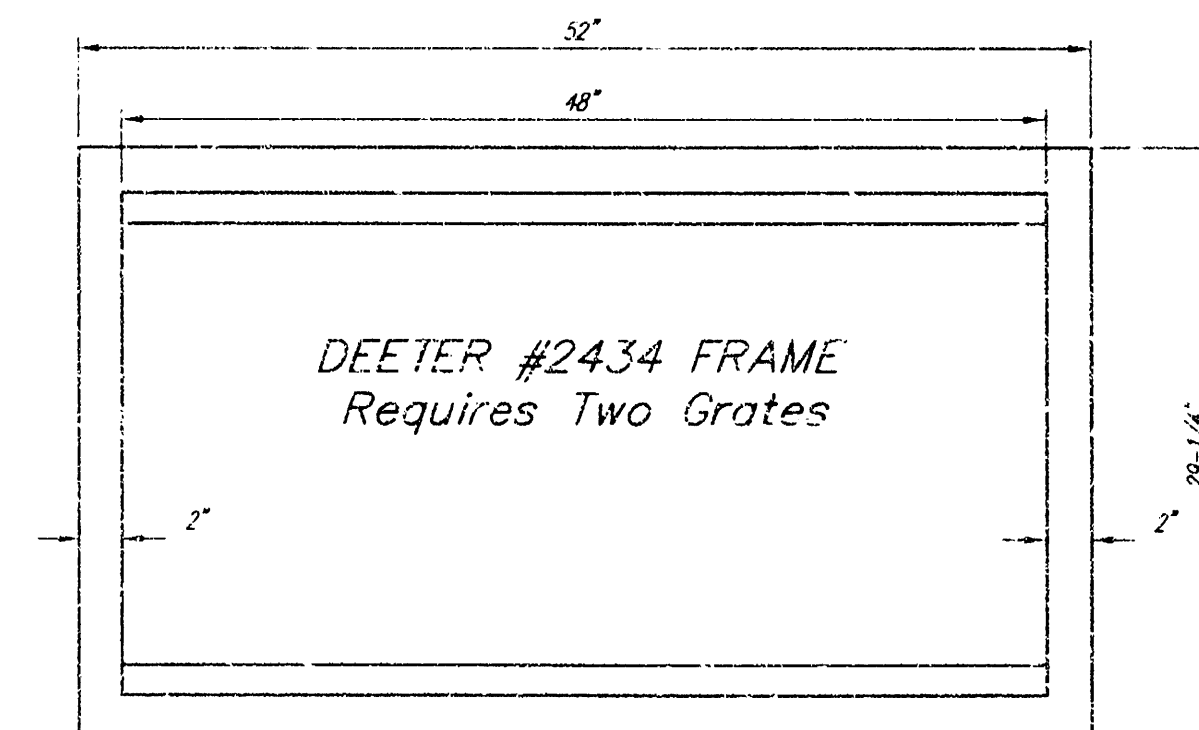
STYPI-D.DWG

PROJECT NUMBER 1374 PPS (607861)	DATE 4/1/03	SCALE	DESIGN DRAWN FILE DATE
RUSTY ECK FORD INLET DETAILS WICHITA, KANSAS			SHEET 4 OF 6



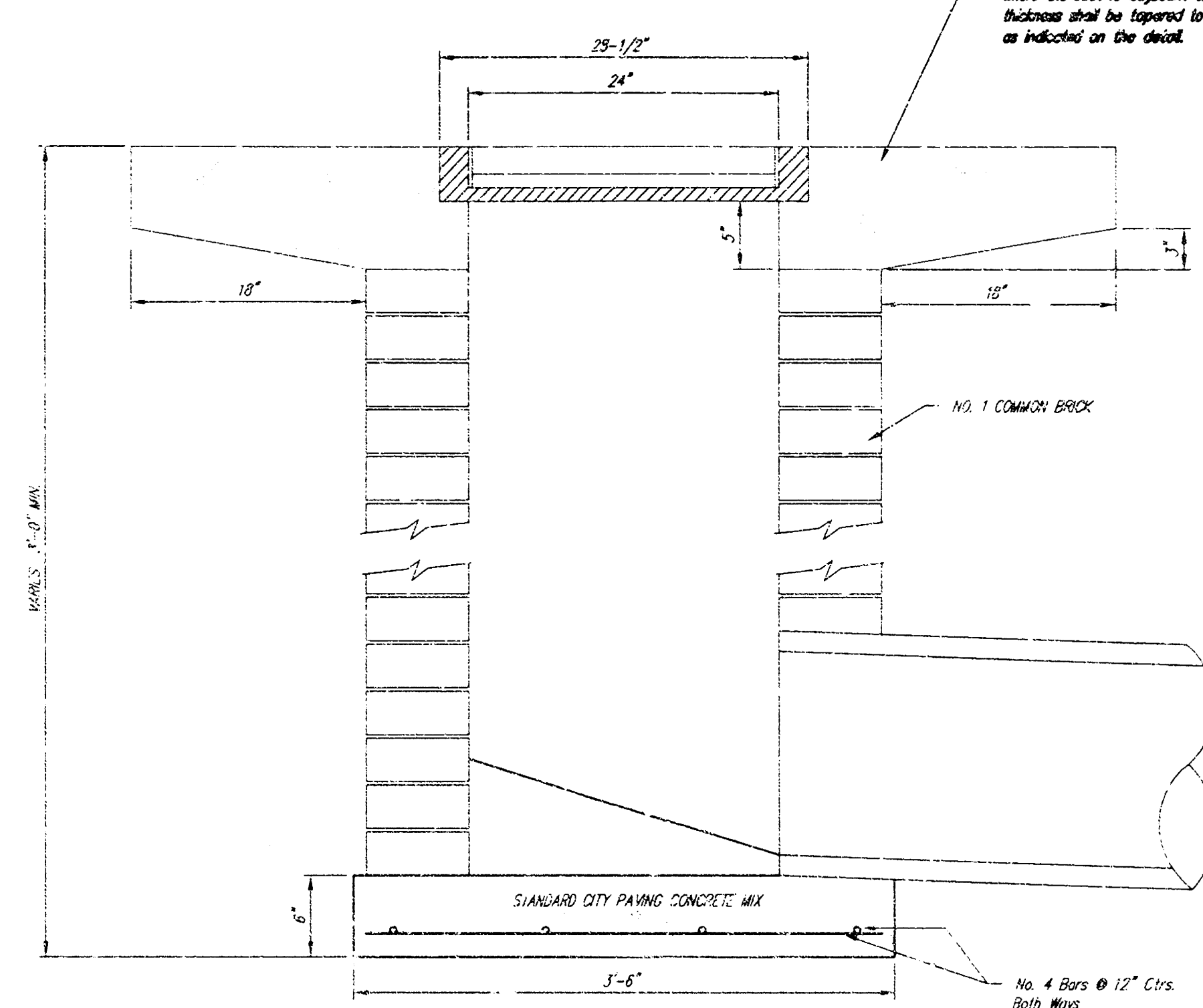
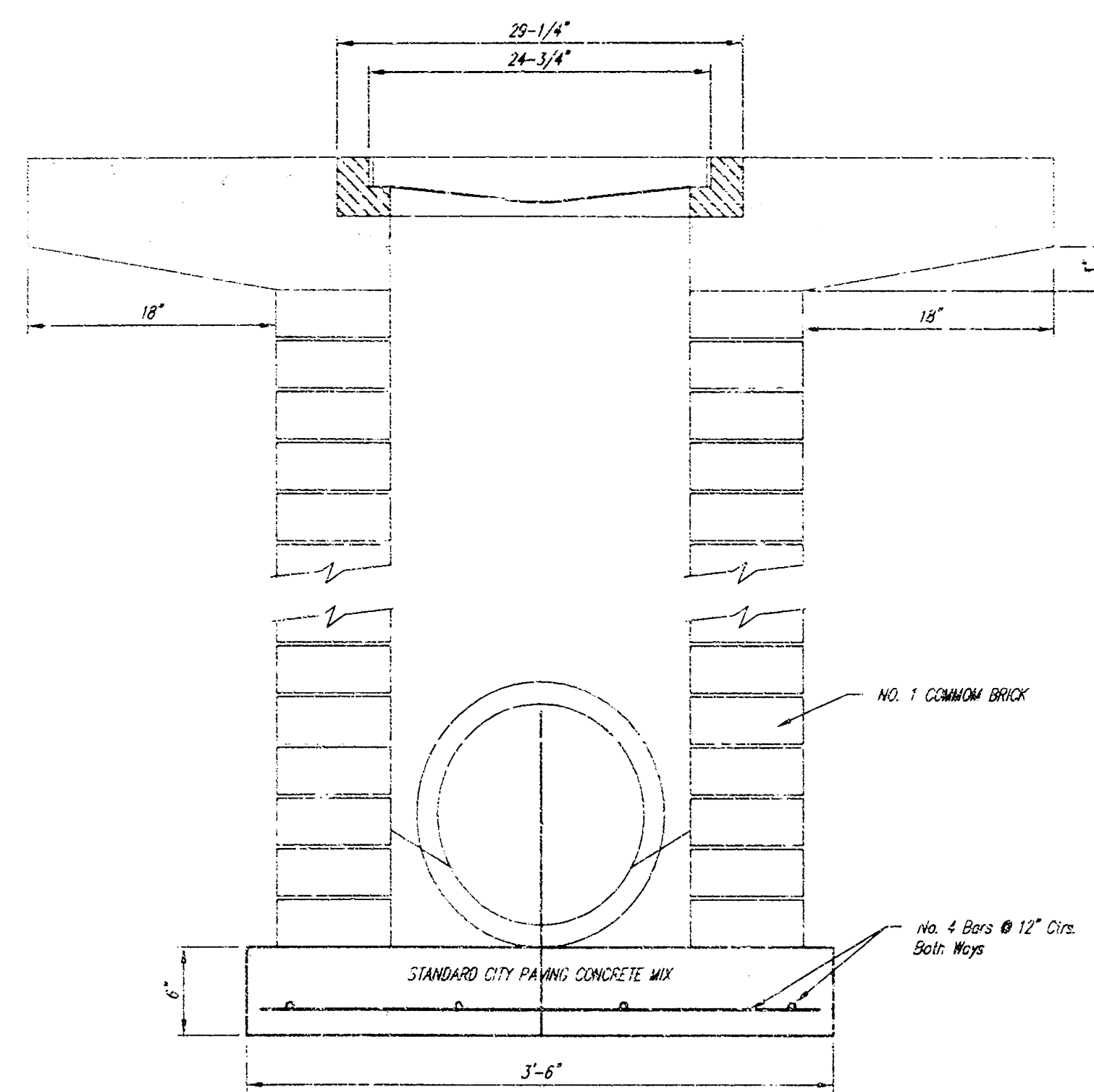
DEETER #2433 GRATE

24" x 24" Frame and Grate Detail

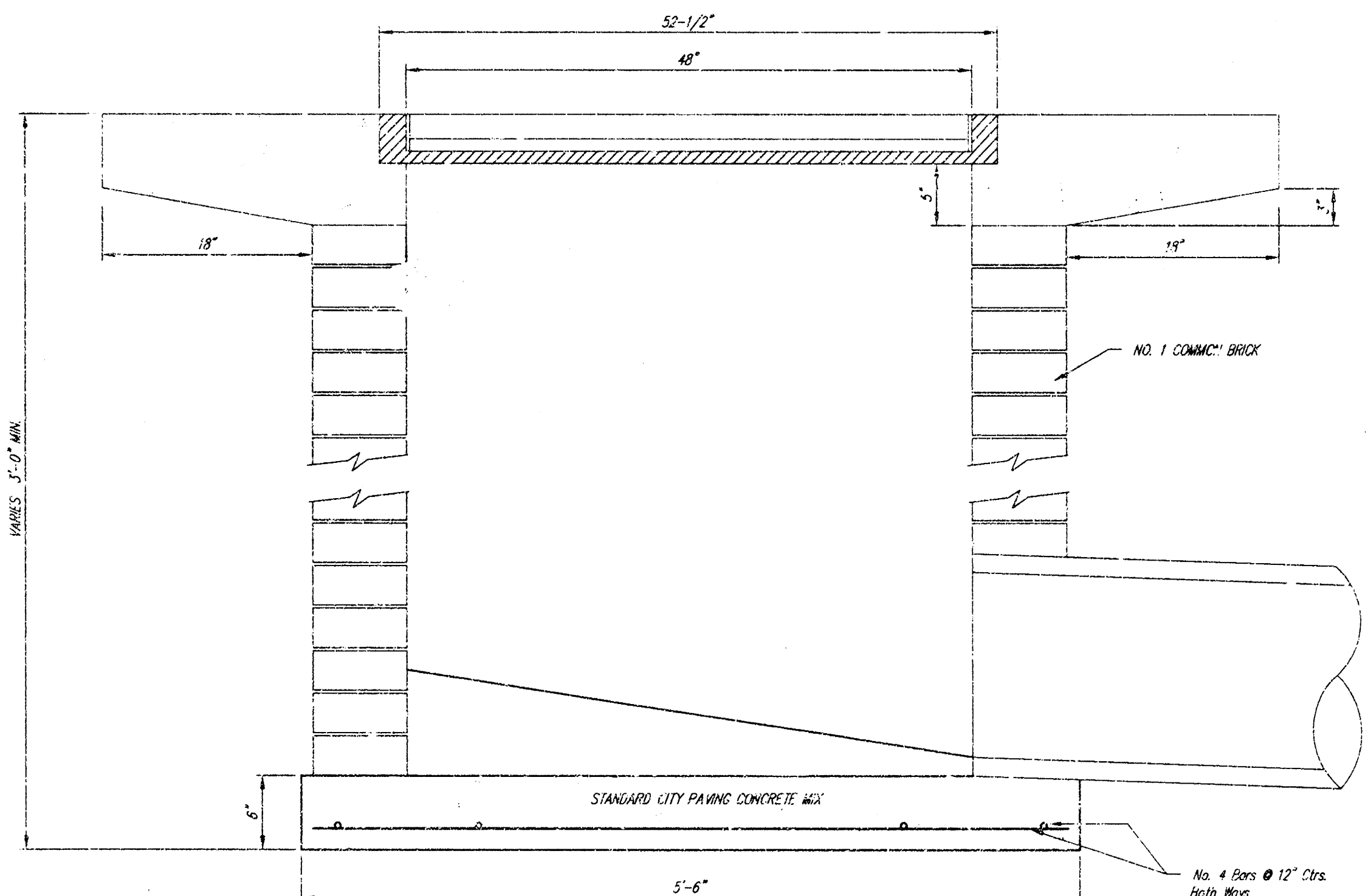


Double 24" x 24" Frame Detail

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.



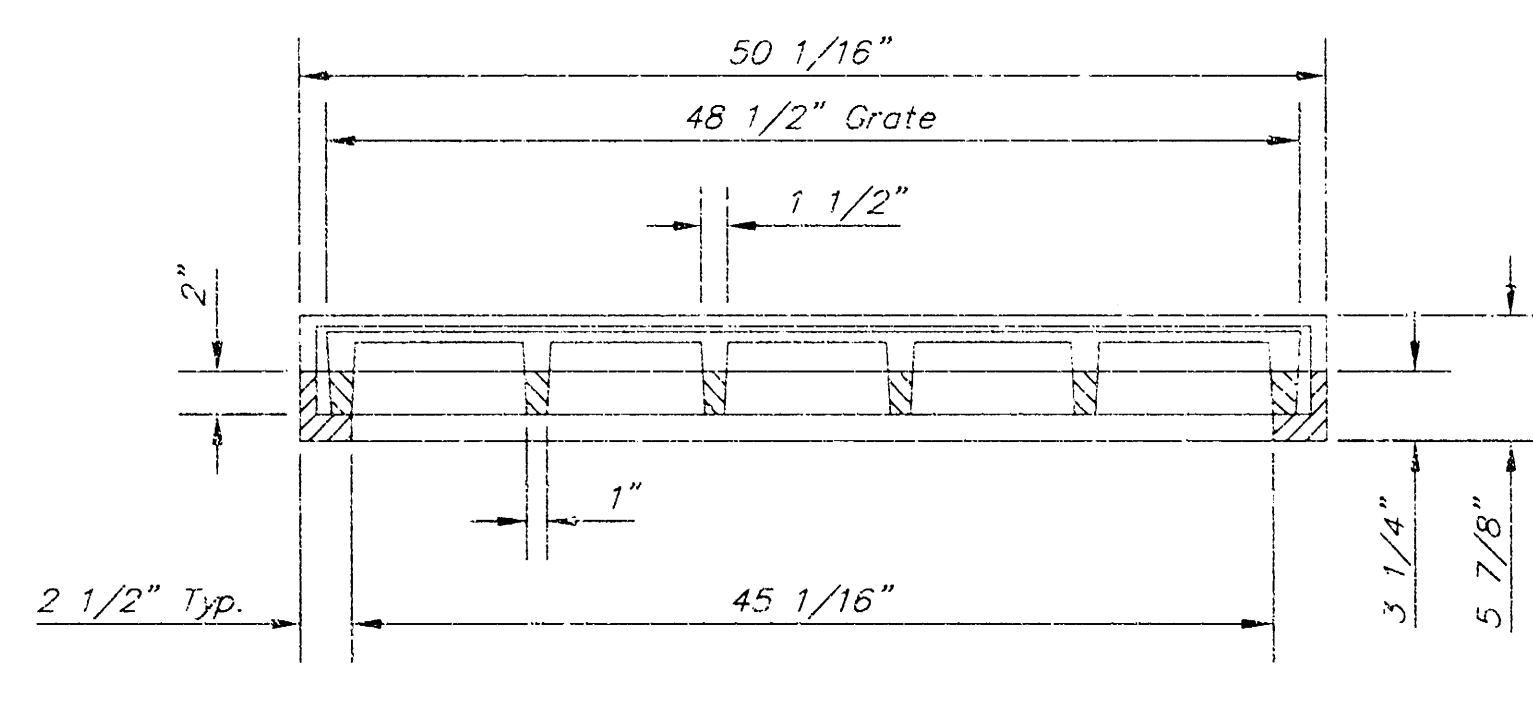
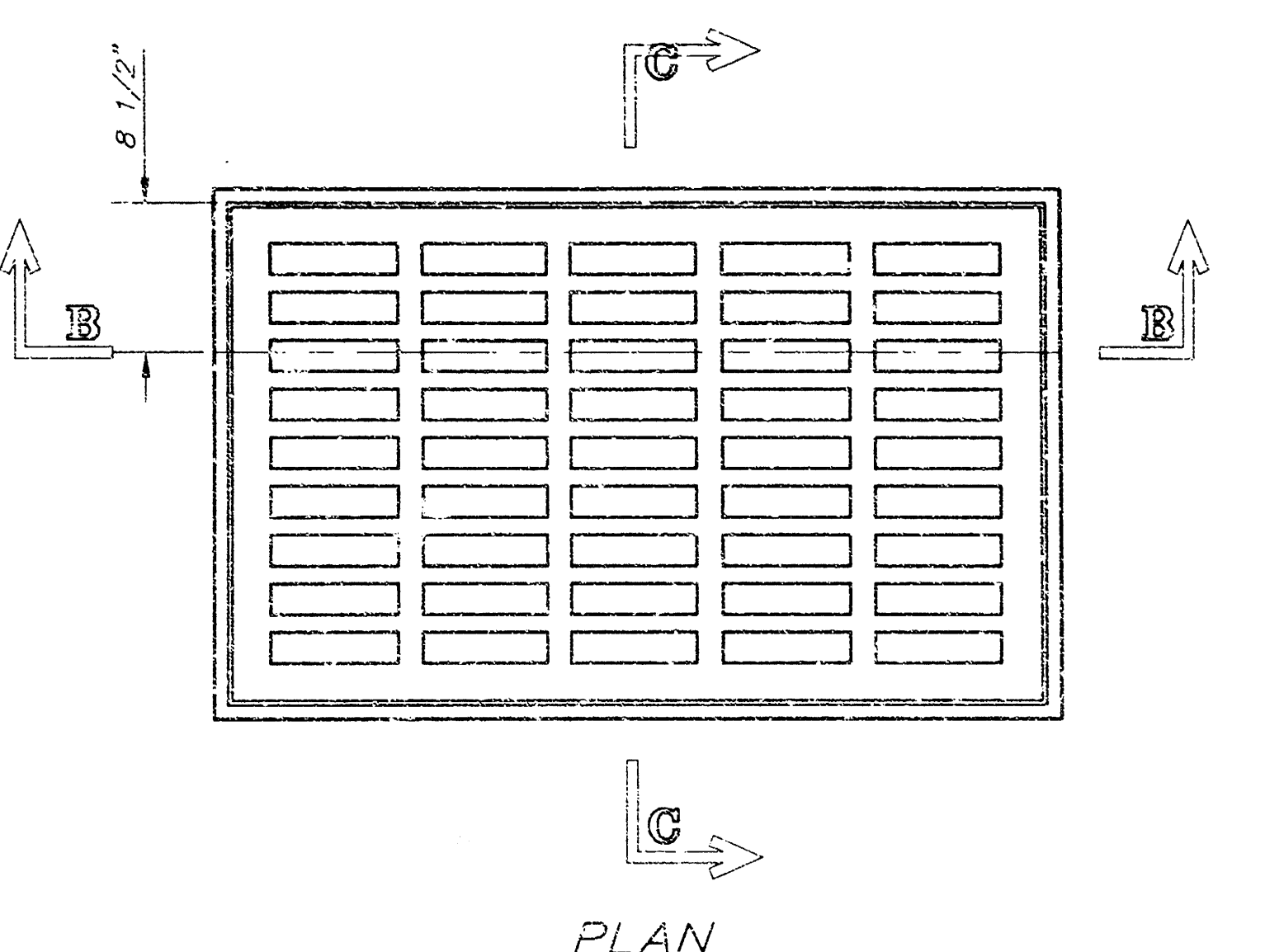
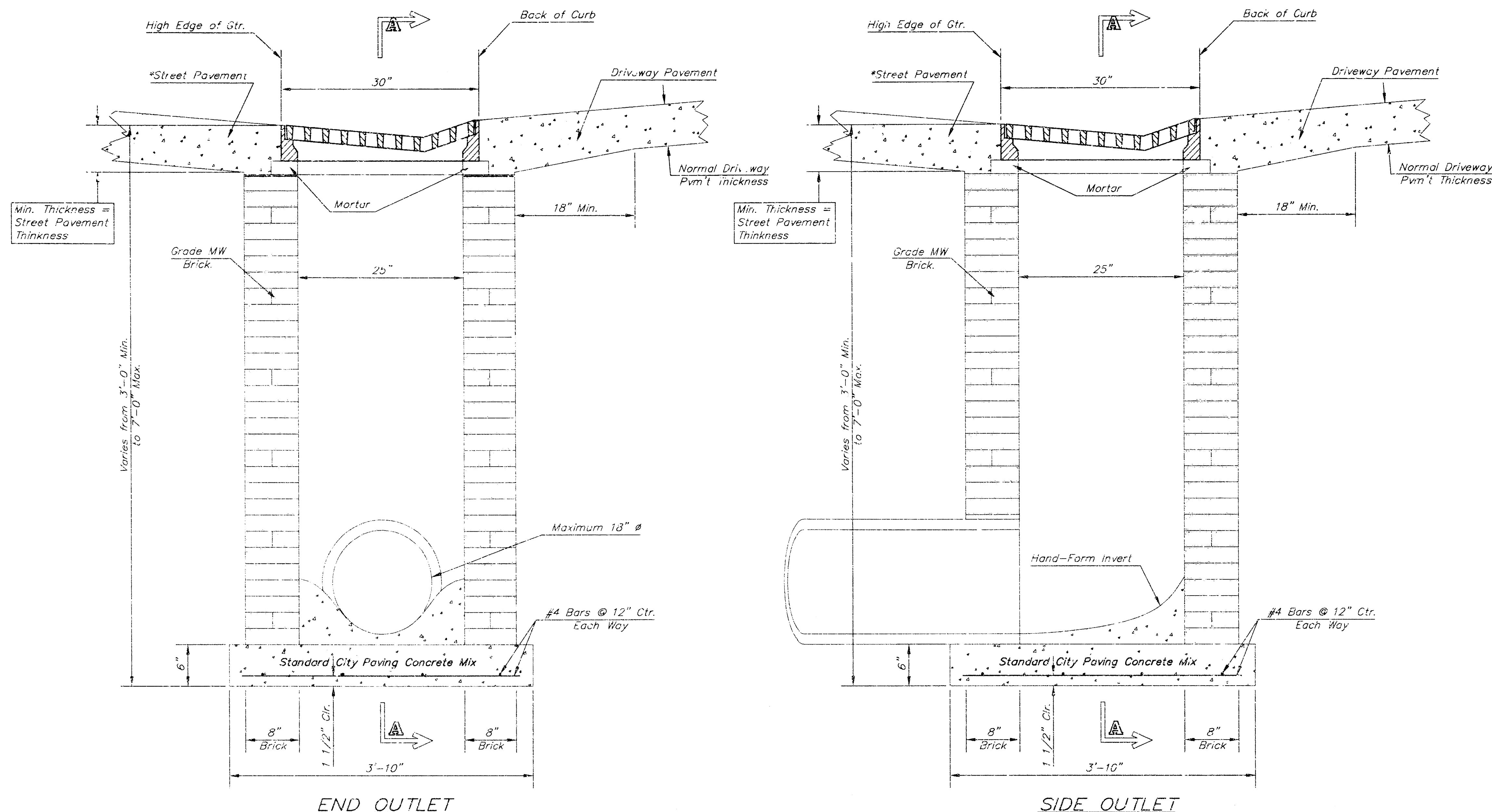
Note: Concrete apron shall be constructed around the inlet when inlet is located in an unimproved area. Where the inlet is adjacent to pavement, the pavement thickness shall be tapered to the inlet in 15' zones as indicated on the detail.



THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 435 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4444 FAX	DROP INLET 2' X 2 1/2' X 4'	
	M. E. LINDEBAK P.E. - CITY ENGINEER	
	PROJECT NUMBER 757 PPS 607861	INDEX CODE
	DATE MAR 96	SHEET 12 OF 14

DROP INLET

	PROJECT NUMBER 1374 PPS (607861)				AN NO. 02031-07
	DESIGN	DRAWN	FILE 1001-1	DATE 4/1/03	SCALE
RUSTY ECK FORD INLET DETAILS WICHITA, KANSAS					SHEET 5 OF 6

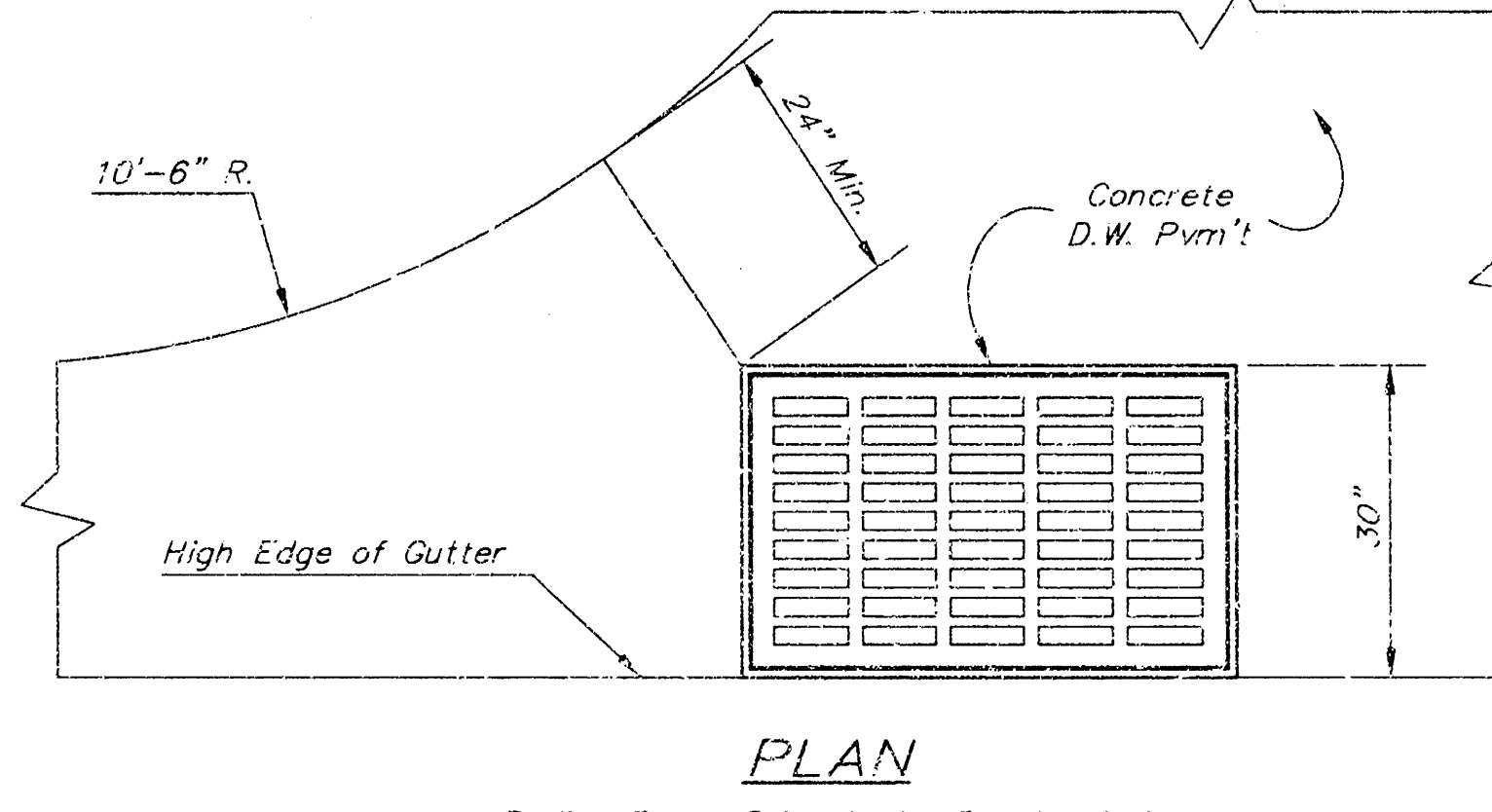
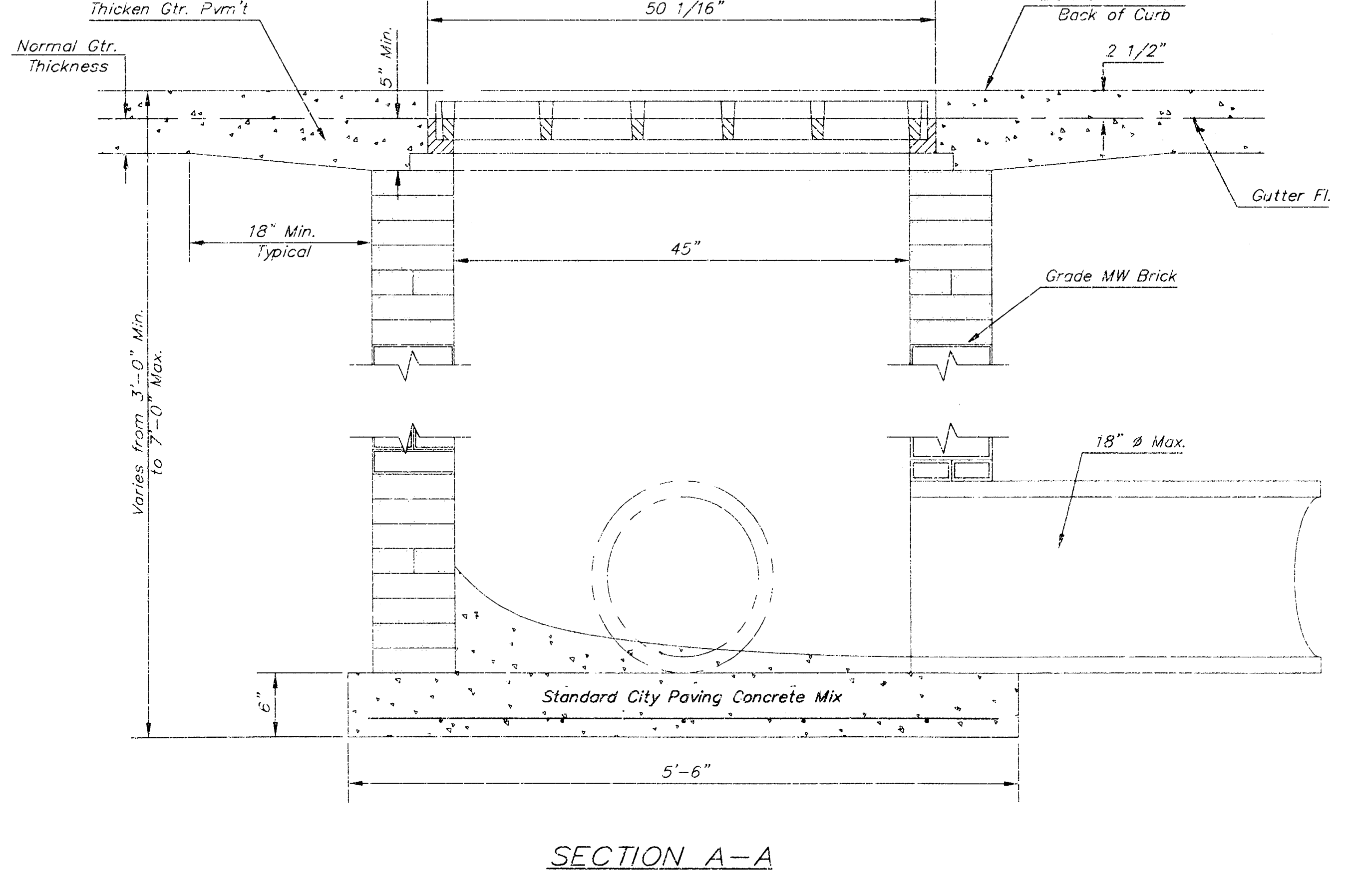


SECTION B-B

SECTION C-C

DEETER #2095 FRAME & GRATE

TOTAL WEIGHT: 705 lbs.



- GENERAL NOTES
1. Grate frame to be installed on thin mortar cushion to insure full support along brick walls. Concrete used for inlet construction shall be concrete pavement mix.
 2. 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.
 3. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.
 4. Inlet Frame and Grate to be Deeter #2095 of approved equal

THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 405 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4001 (316) 268-4114 FAX		DRIVEWAY GRADED INLET SINGLE M. E. LINDEBAK P.E. - CITY ENGINEER PROJECT NUMBER XXX-XXXXX INDEX CODE XXX-XXXXX DATE MAR 96 SHEET X OF X	
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PROJECT NUMBER 1374 PPS (607861)		AM NO. 02031-07		RUSTY ECK FORD INLET DETAILS WICHITA, KANSAS		SHEET 6 OF 6 REVISION 6/10/03	
DESIGN	DRAWN	FILE	DATE	SCALE			
		typ1-1	4/1/03				