

GENERAL NOTES

1. THE TOPS OF INLETS AND MANHOLES 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 AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL 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.
4. TREES TO BE REMOVED ARE MARKED . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
5. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
6. 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 COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
7. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 687-2470
OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION 263-2061
K&E (GAS & ELECTRIC) 383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7590
CITY OF WICHITA WATER & SEWER MAINT. 262-6000
ARKLA GAS COMPANY 946-0096

8. 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 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.
9. CONTRACTOR SHALL RESEED AND MULCH ALL DISTURBED AREAS. COST SHALL BE CONSIDERED SUBSIDIARY TO SITE RESTORATION.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

STORM SEWERS URH 5/15/02

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 QUALIFIED 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.

PRIVATE STORM WATER SEWER PLANS FOR

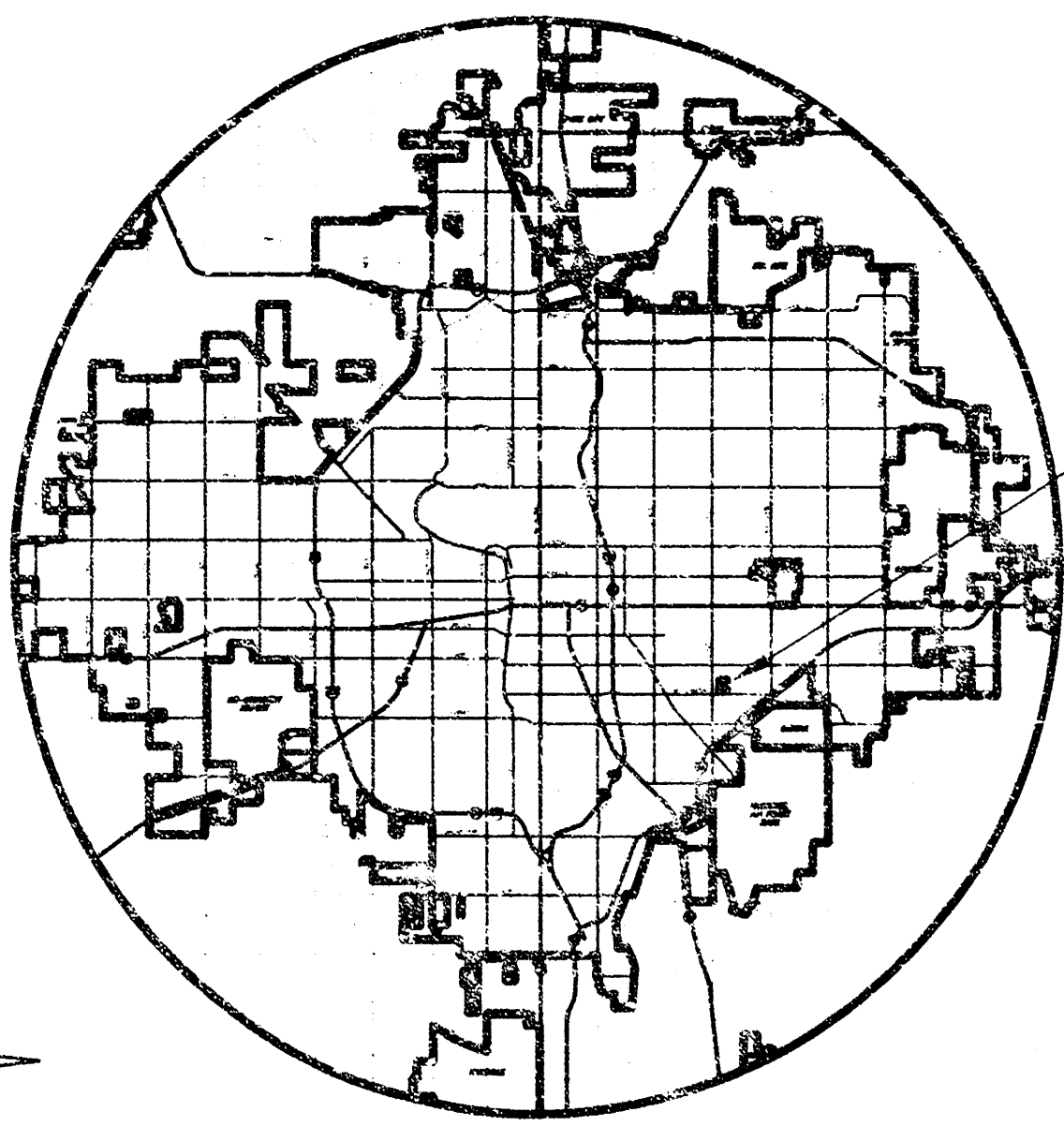
ALLEN ELEMENTARY SCHOOL

IN THE CITY OF WICHITA
SEDGWICK COUNTY, KANSAS

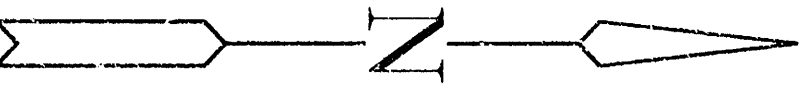
PROJECT NO. 1240 PPS

MICHAEL E. LINDESAK, CITY ENGINEER

OCA NO. 607861



SITE LOCATION



SCALE: 1" = 100'

LOCATION MAP

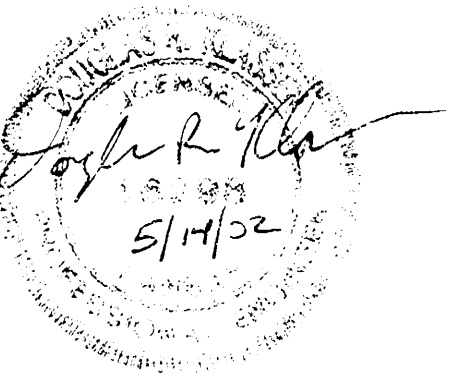
INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	DETAILS
4-5	LINE 1

COMBINE
WITH OTHER
1240

BENCHMARKS

- BM#1 C.O.W. benchmark top of brass tap at NE corner of Mount Vernon and Oliver Street.
Elevation = 148.60' (city datum)
- BM#2 Top of North curb return at NE corner of Elpyco Ave. and Mt. Vernon.
Elevation = 141.33 (city datum)



ALLEN ELEMENTARY SCHOOL

PROJECT NAME

STORM WATER SEWER
TITLE SHEET

SHEET TITLE

DK

DESIGN BY:

GJR

DRAWN BY:

DK

CHECKED BY:

MAY 2002

DATE

TITLE

DRAWING NAME

1 / 5

SHEET / OF

ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

**DEETER #2433
(OR EQUAL)**

(REQUIRES ONE GRATE)
OPEN AREA 18.4 SQ. IN.
 1.28 SQ. FT.

Top View Dimensions:
 Outer: 28 1/2"
 Inner: 21 3/4"
 Side Flange: 2 1/4"

Side View Dimensions:
 Height: 2 1/4"
 Width: 21 3/4"

2" 48" 2"

29 1/4"

24 3/4"

21 3/4"

2"

1 1/2"

2 3/8"

DEETER #2434 (OR EQUAL)

(REQUIRES TWO GRATES)

OPEN AREA 368 SQ. IN.
2.56 SQ. FT.

52"

IF ASPHALT PAVEMENT,
CONSTRUCTION LIMITS
FOR CONCRETE TOP.

24 3/4"

2 1/4"

1 1/2"

1 1/2"

2 1/4"

18" TYP.

2" TYP.

NO.1 COMMON BRICK

FLOOR SHAPING
(8 SACK SAND MIX)

VARIES

FLOOR SHAPING
(8 SACK SAND MIX)

STD. CONC. PAVING MIX

3'-6"

NO 4 BARS @ 12" CTRS.
BOTH WAYS

NO 4 BARS @ 12" CTRS.
BOTH WAYS

IF ASPHALT PAVEMENT,
CONSTRUCTION LIMITS
FOR CONCRETE TOP.

24"

2 1/2"

2 1/2"

PAVMT.

2" TYP.

18" TYP.

BRICK MASONRY

FLOOR SHAPING
(8 SACK SAND MIX)

STD. CONC. PAVING MIX

VARIES

3'-6"

NO. 4 BARS @ 12" CTRS.
BOTH WAYS

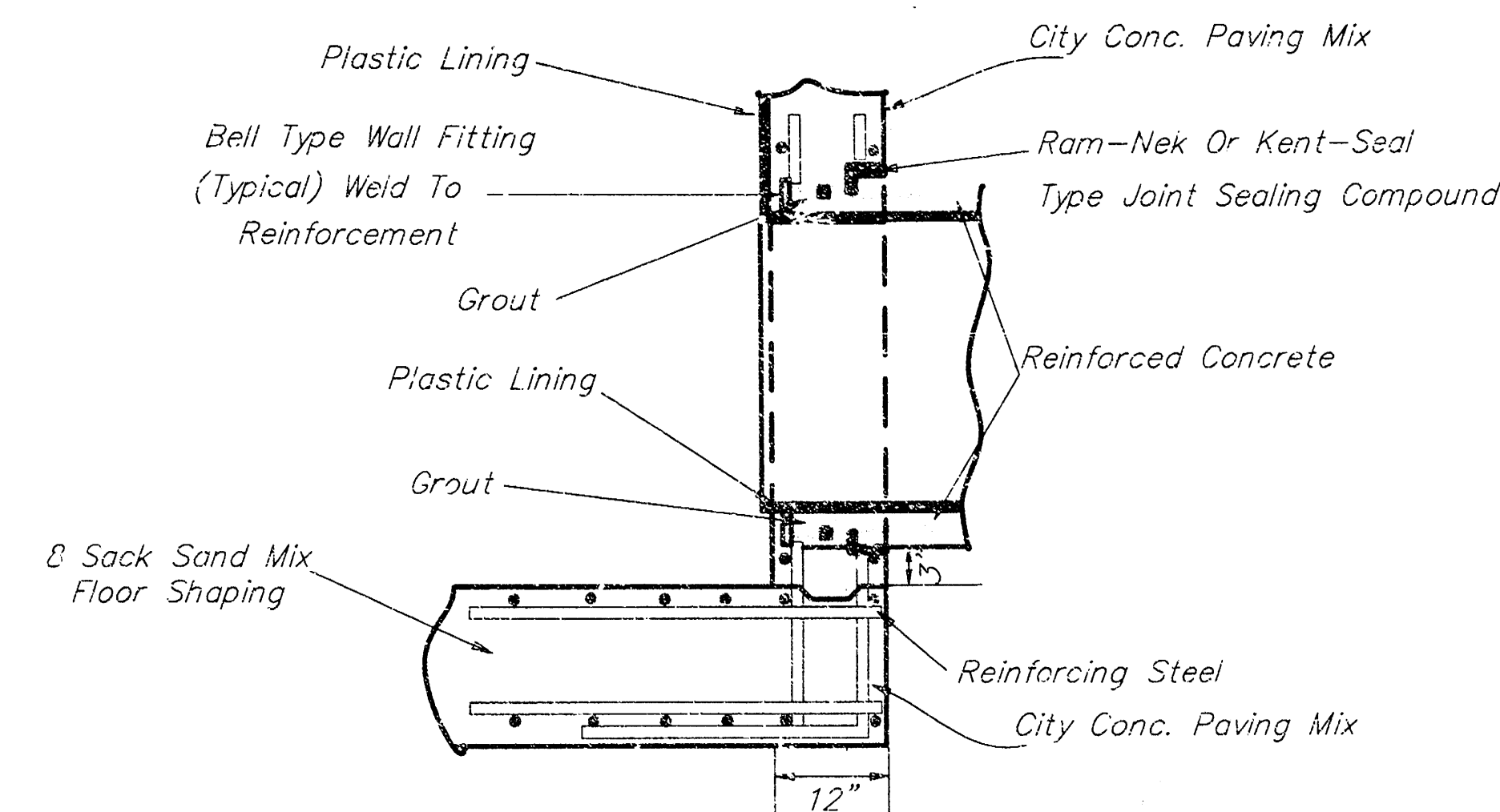
2" CLR.(TYP.)

VARIES (3'-0" MIN.)

ORIFICE EQUATION		
$Q = C^* A^* \sqrt{2gh}$ $C = 0.60$		
n (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

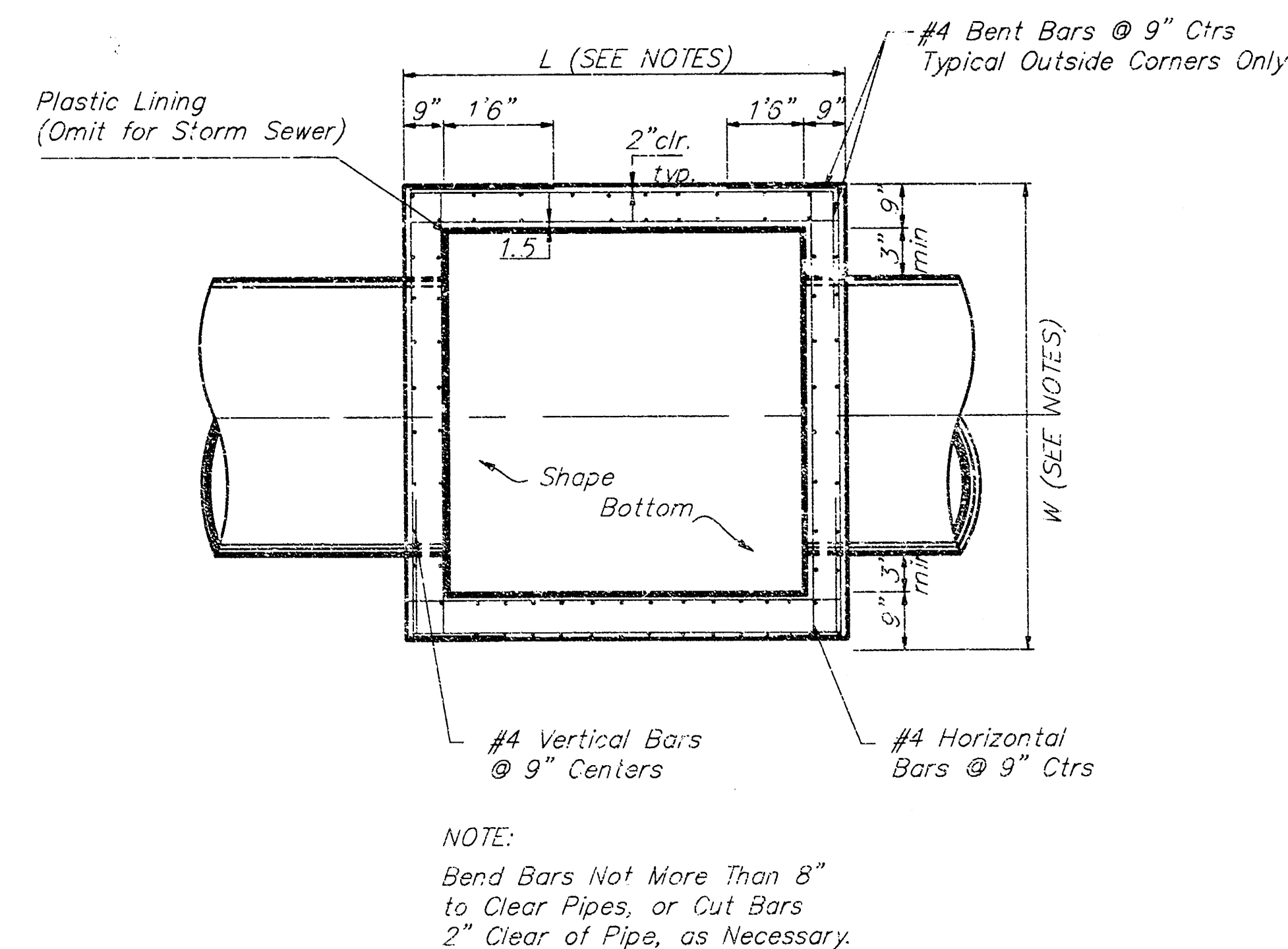


2 / 5
SHEET / OF



R.C.P. CONNECTION DETAIL

SANITARY SEWER ONLY

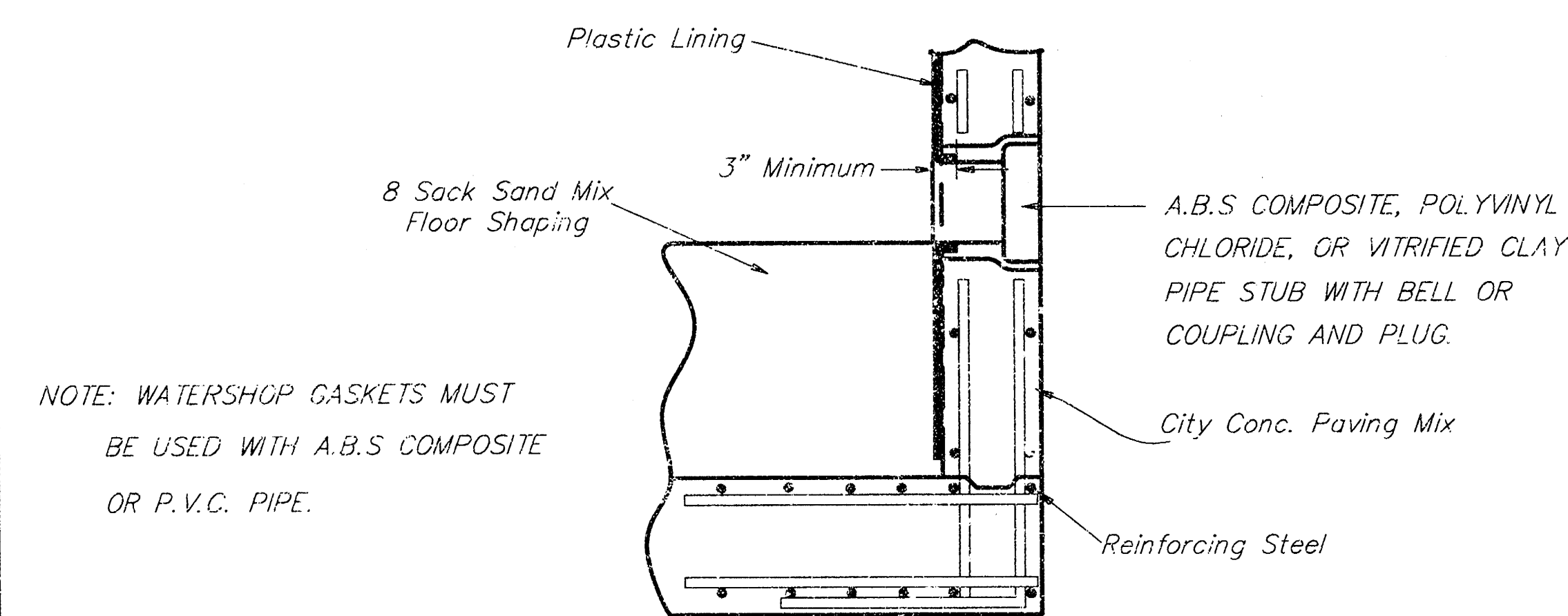


NOTE:
Bend Bars Not More Than 8"
to Clear Pipes, or Cut Bars
2" Clear of Pipe, as Necessary.

TOP VIEW

GENERAL NOTES:

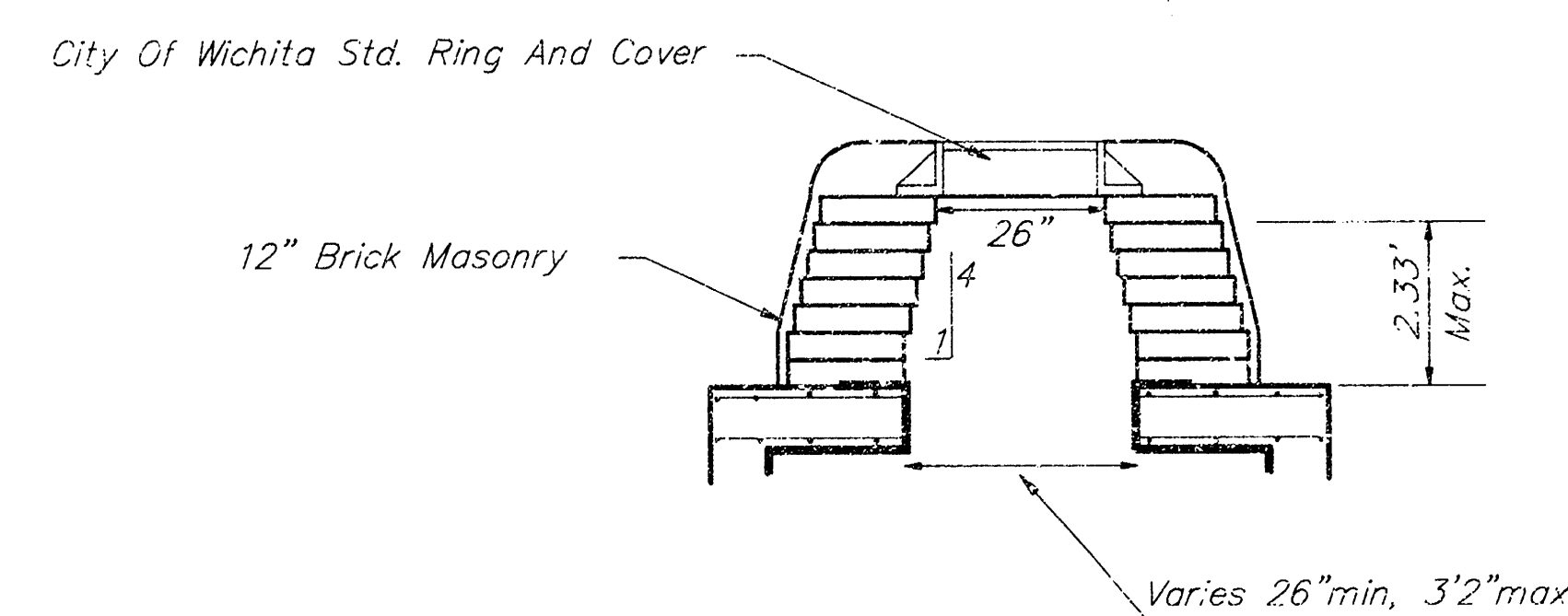
1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE WALLS AND BASES SHALL CONFORM TO THE REQUIREMENTS FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS, USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
2. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING. USING 8-SACK SAND MIX CONCRETE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS.
3. 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.
4. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF MANHOLE WALL.
5. "L" & "W" SHALL BE AS SPECIFIED IN THE PLANS.



NOTE: WATERSHOP GASKETS MUST
BE USED WITH A.B.S. COMPOSITE
OR P.V.C. PIPE.

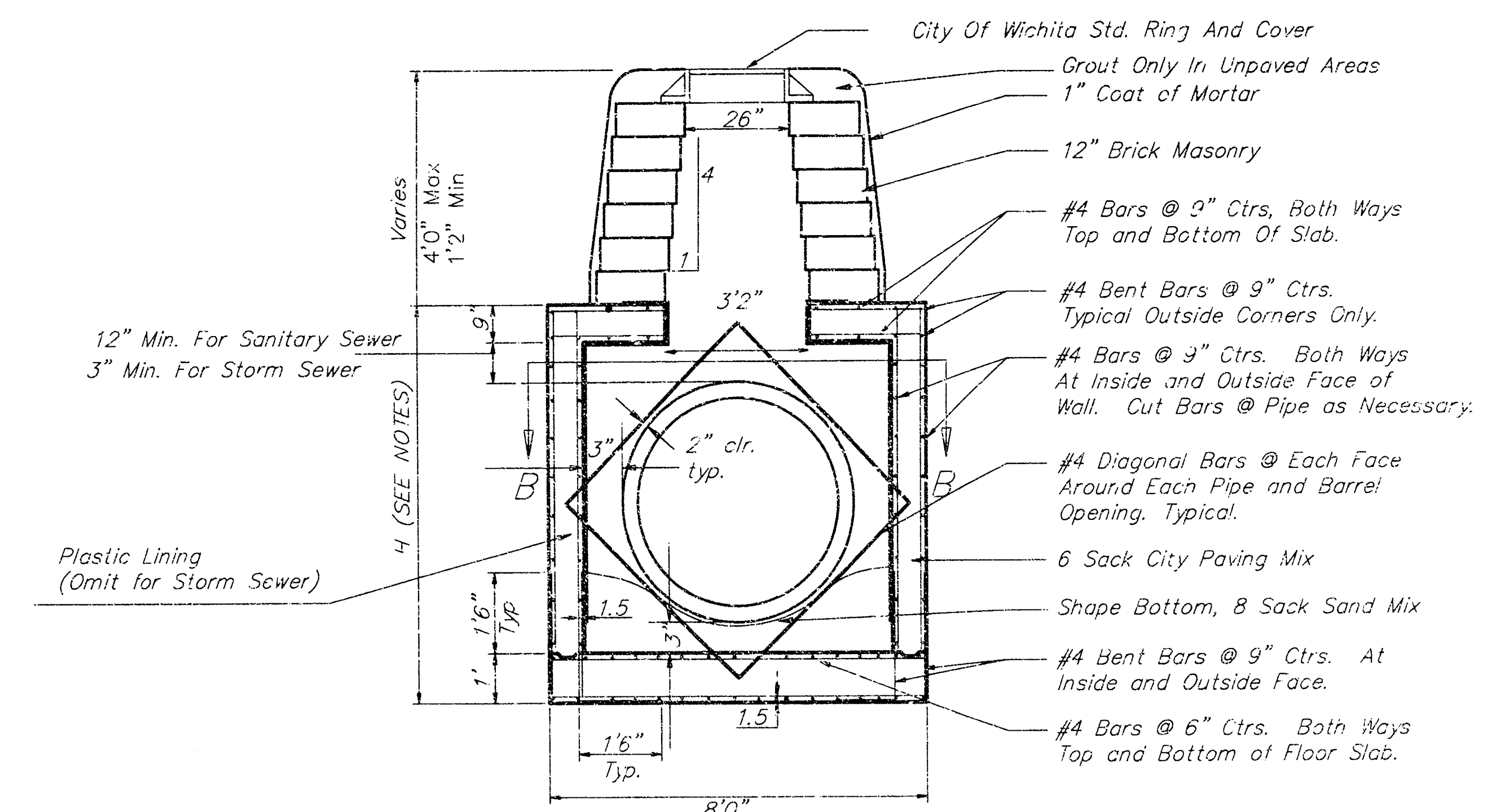
PIPE STUB DETAIL

SANITARY SEWER ONLY



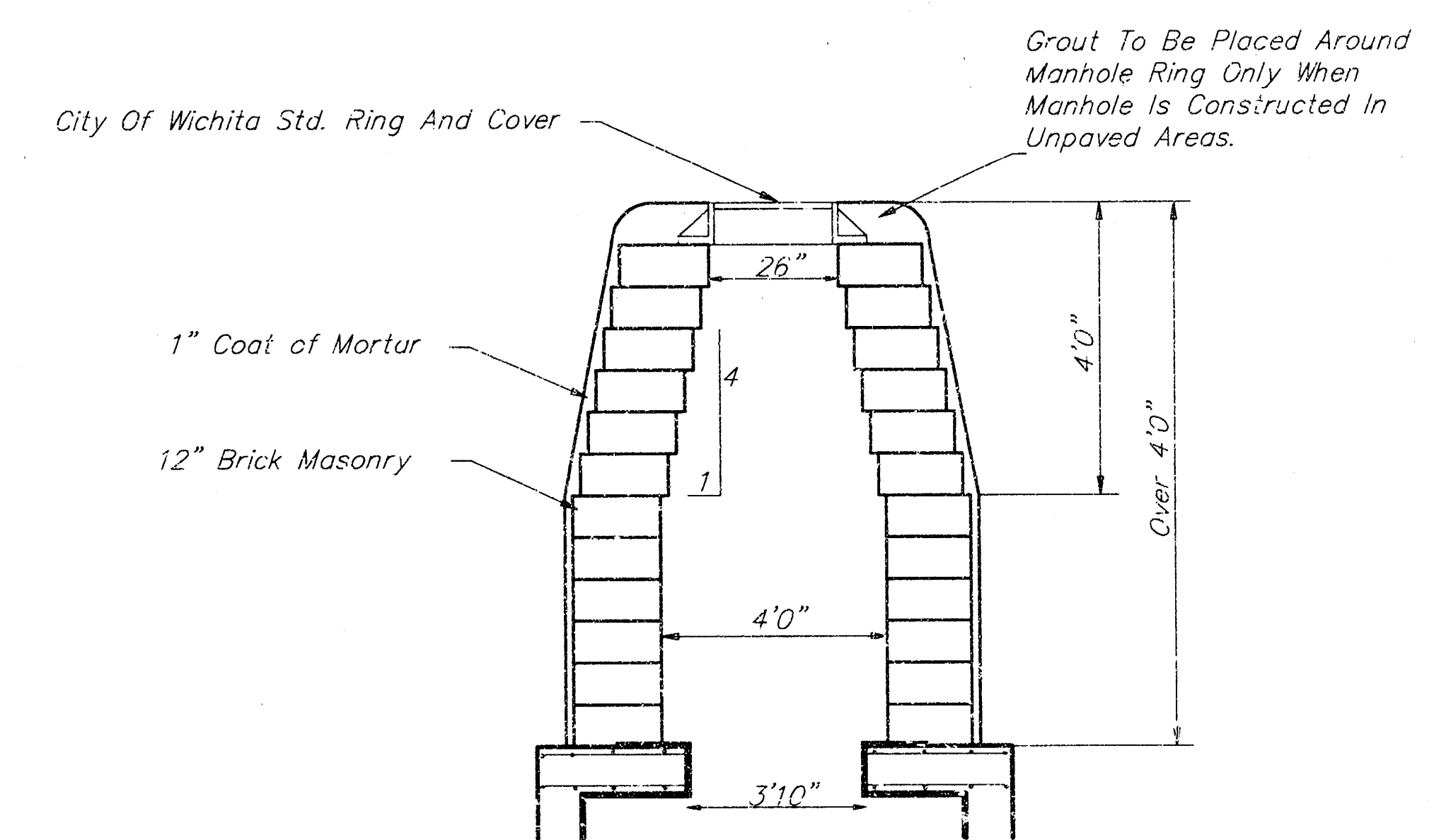
REINFORCED CONCRETE MANHOLE

MANHOLE STACK LESS THAN 2.33'



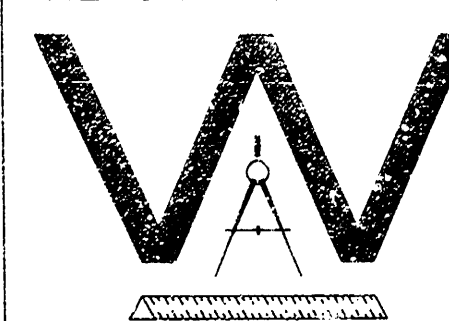
REINFORCED CONCRETE MANHOLE

MANHOLE STACK 2.33' TO 4'0"

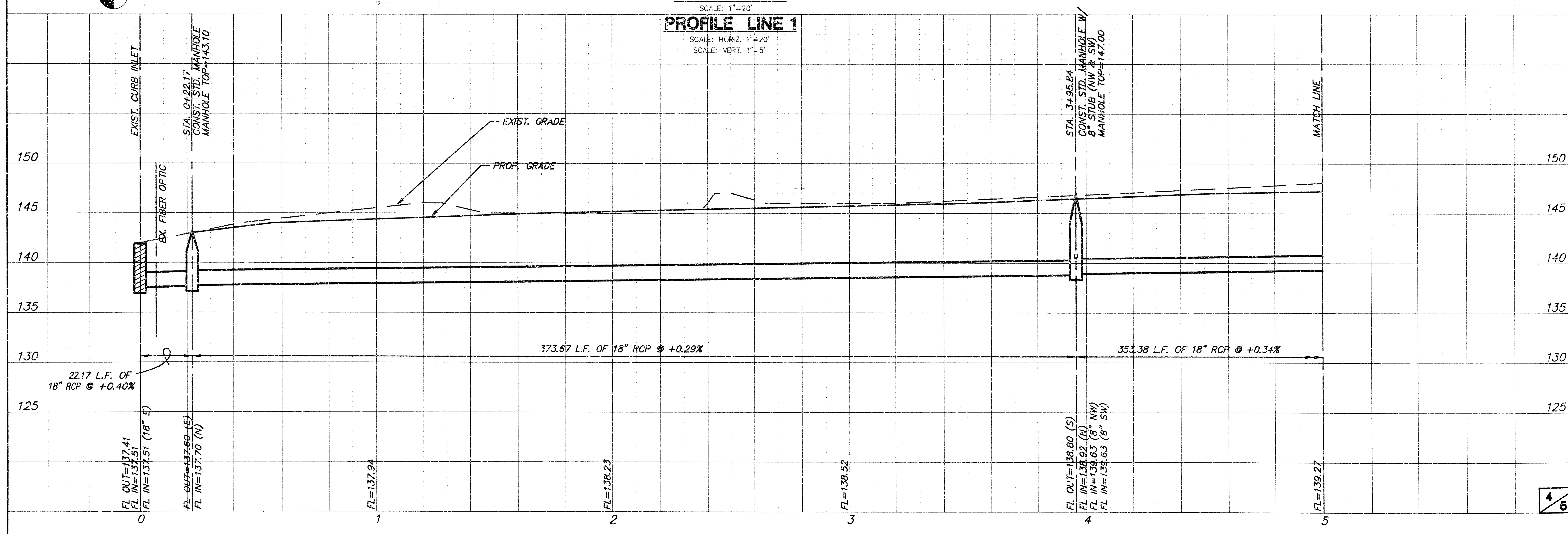
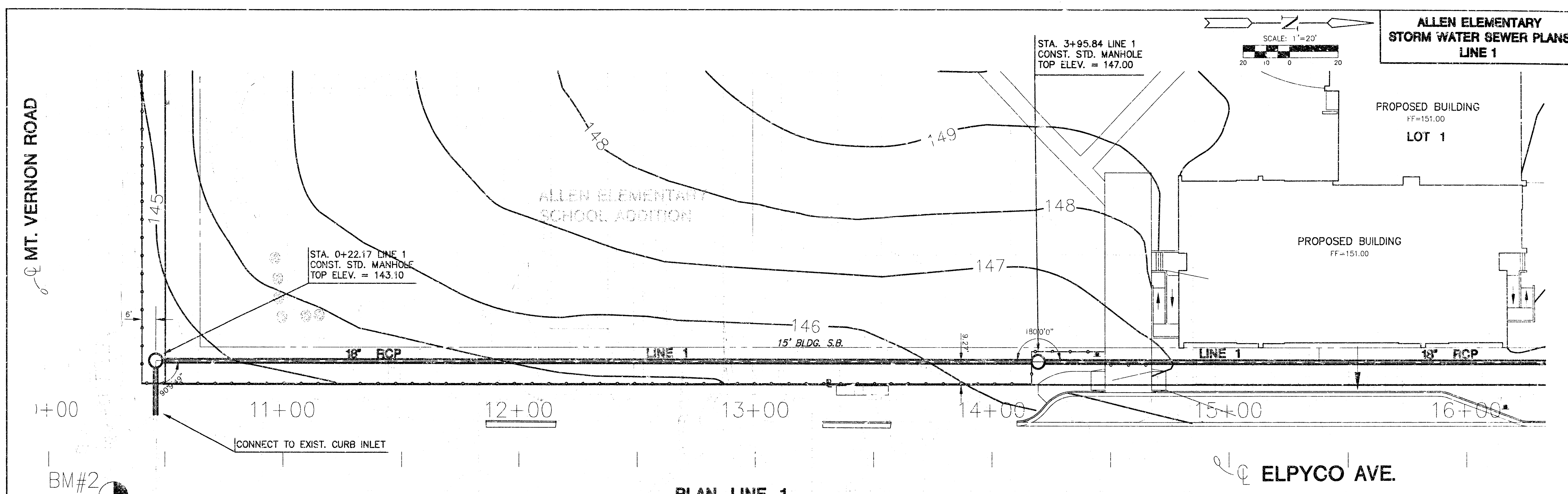


REINFORCED CONCRETE MANHOLE

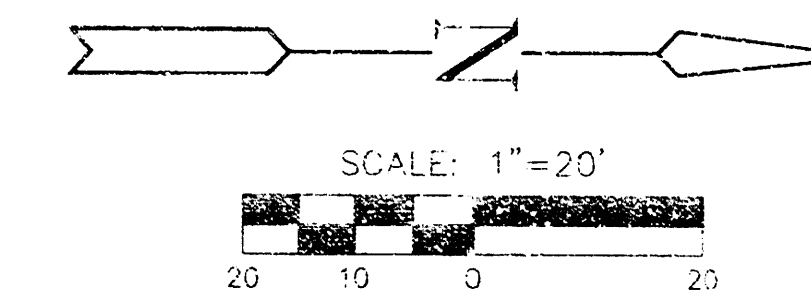
MANHOLE STACK OVER 4'0"

THE CITY OF WICHITA  CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4500 (316) 268-4114 FAX/PRIL 95		REINFORCED CONCRETE MANHOLE	
M. E. LINDEBAK P.E. - CITY ENGINEER			
PROJECT NUMBER XXX-XXXX		INDEX C/D XXXXXX	
DATE		SHEET 3 OF 5	

REV. 1/05/01, MCG



ALLEN ELEMENTARY
STORM WATER SEWER PLANS
LINE 1



STA. 9+41.15 LINE 1
CONST. STD. DROP INLET
TOP ELEV. = 147.39

EXIST. SAN. SEWER MANHOLE
(TO BE ADJ. BY OTHERS)
EXIST. TOP ELEV.=150.3
PROP. TOP ELEV.=148.32

STA. 8+17.14 LINE 1
CONST. STD. DROP INLET
TOP ELEV. = 146.89

STA. 7+49.22 LINE 1
CONST. STD. MANHOLE
TOP ELEV. = 148.59

PROPOSED BUILDING
FF=151.00
LOT 1

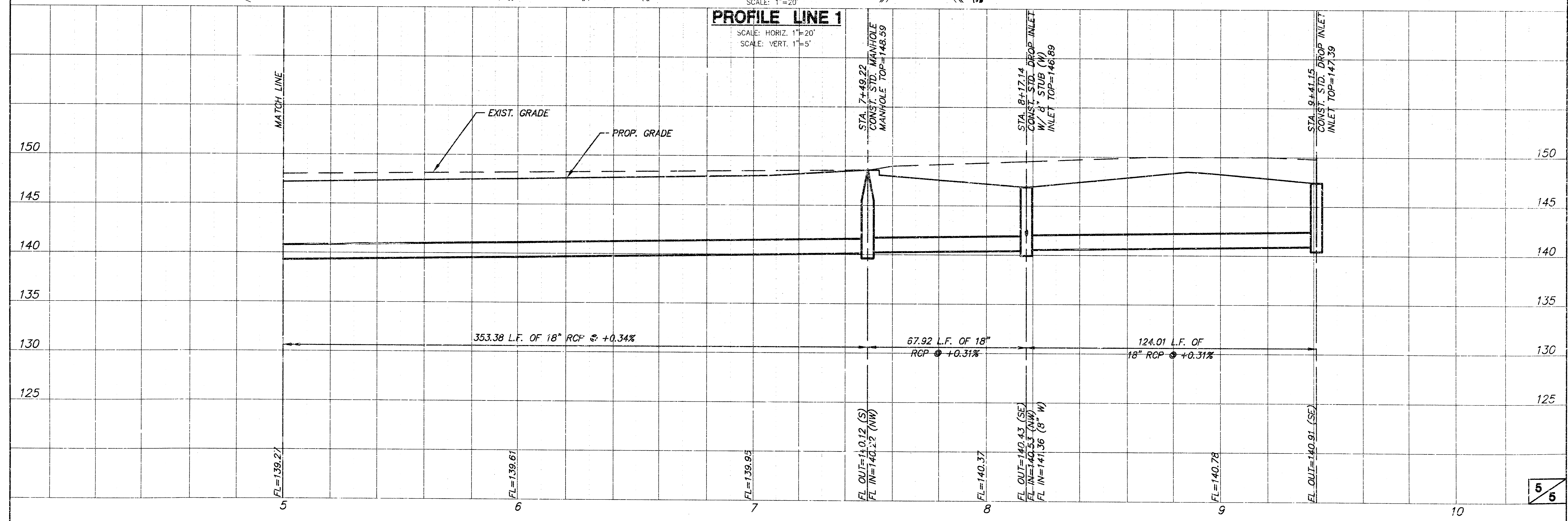
PROPOSED BUILDING
FF=151.00

PLAN LINE 1

SCALE: 1"=20'

PROFILE LINE 1

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



80 40 FT 8'