

Sanitary Sewer Extensions To Serve
WEST WAREHOUSE ADDITION
Lateral 13, Main 14, Sanitary Sewer No. 22

Project No.

468 76 245 82342 000 000 001

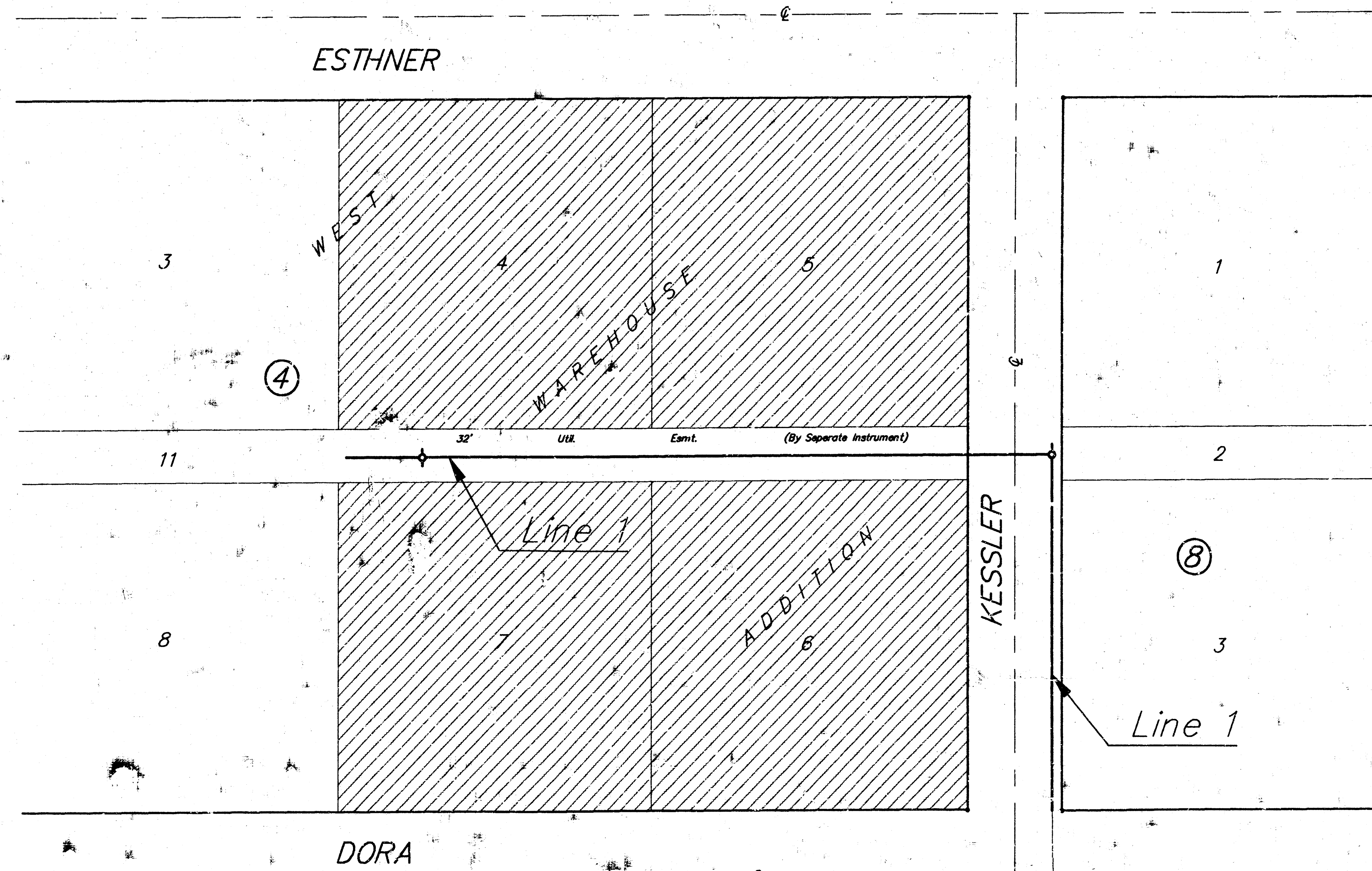
CITY OF WICHITA, KANSAS

Michael E. Lindebak City Engineer

Index Code : 741678

General Notes

1. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.
3. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.
4. 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.
5. Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on each sanitary sewer plan. All costs for grading shall be paid as lump sum easement grading.
6. Traffic will not be effected by construction on this project.

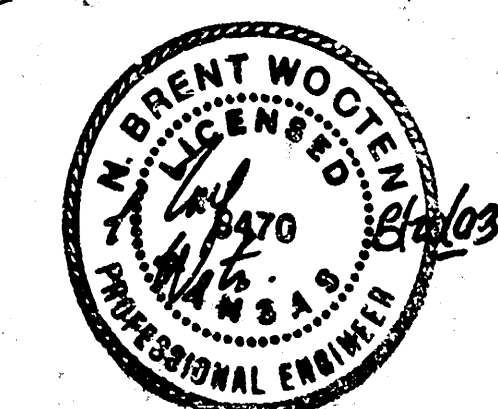


Benefit District

Index

1. Title Sheet
2. Plan/Profile Sheet
3. Standard Manhole Detail
4. Plat of West Warehouse Addition

As Shown
 1/14/04
 B. K. B. Plan



BENCHMARK:

1" Cut in Top of Curb Located 60' West of
 E of Kessler and 23' South of E of Dora.
 Elevation = 111.99 City Datum

NOTE:
 REMOVE TREES ONLY AS NECESSARY
 FOR CONSTRUCTION OF SANITARY
 SEWER LINE.

Contractor to verify location
 and fio of exist. 8" San. Sewer

Sta 0+00 Line 1 - Remove
 Existing Cap and Extend
 Existing 8" Sanitary Sewer
 Line North.

CAUTION: Existing Guy wire.
 Contractor to avoid disturbing
 guy, or contact K&E for
 assistance in stabilizing
 pole during construction.

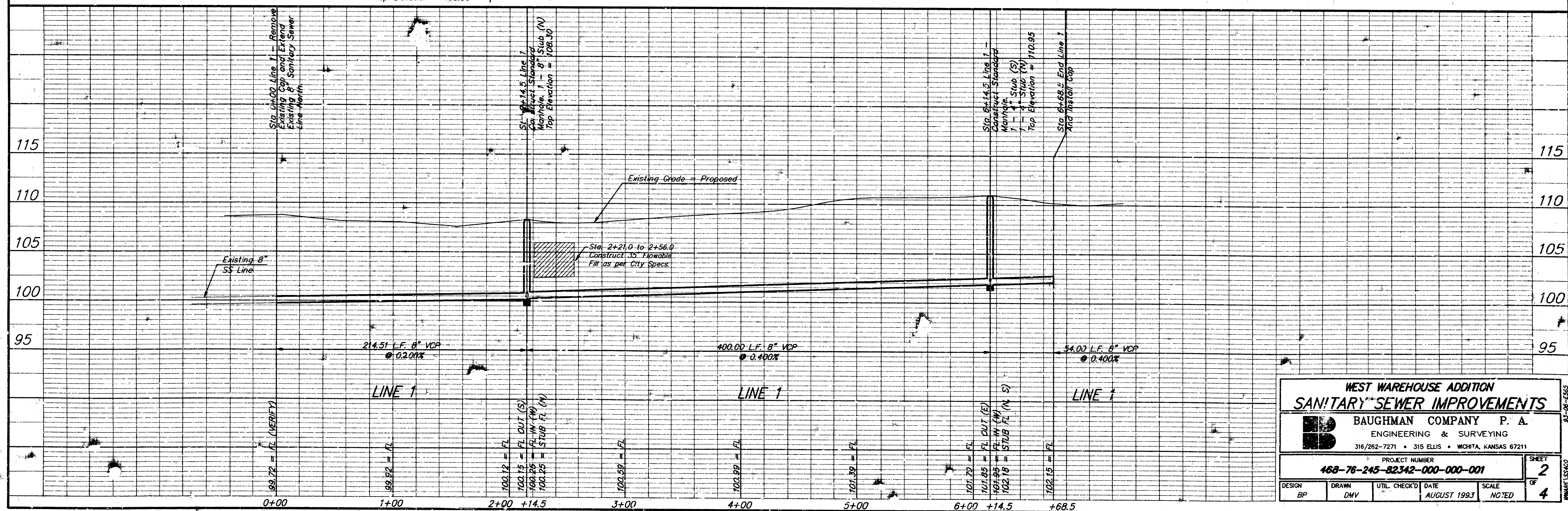
Sta 2+14.5 Line 1
 Construct Standard
 Manhole. 1 - 8" Stub (N)
 Top Elevation = 108.30

Sta. 2+21.0 to 2+56.0
 Construct Flowable Fill
 as per City Specs.

Sta 6+14.5 Line 1 -
 Construct Standard
 Manhole. 1 - 4" Stub (N)
 1 - 4" Stub (S)
 Top Elevation = 110.95

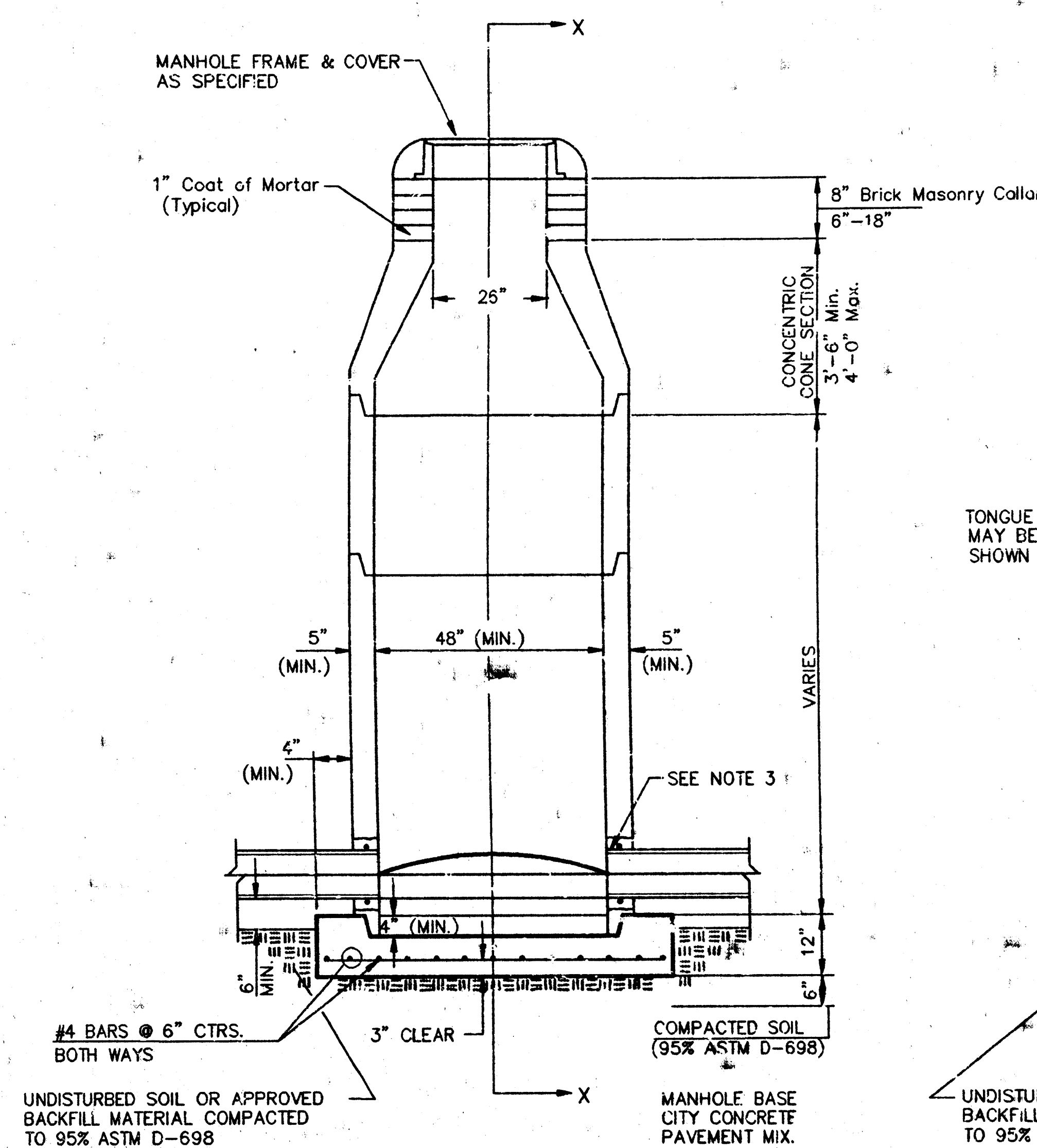
Sta 6+68.5 End Line 1
 And Install Cap

SCALE:
 1" = 40' HORIZONTAL
 1" = 5' VERTICAL
 • = IRON

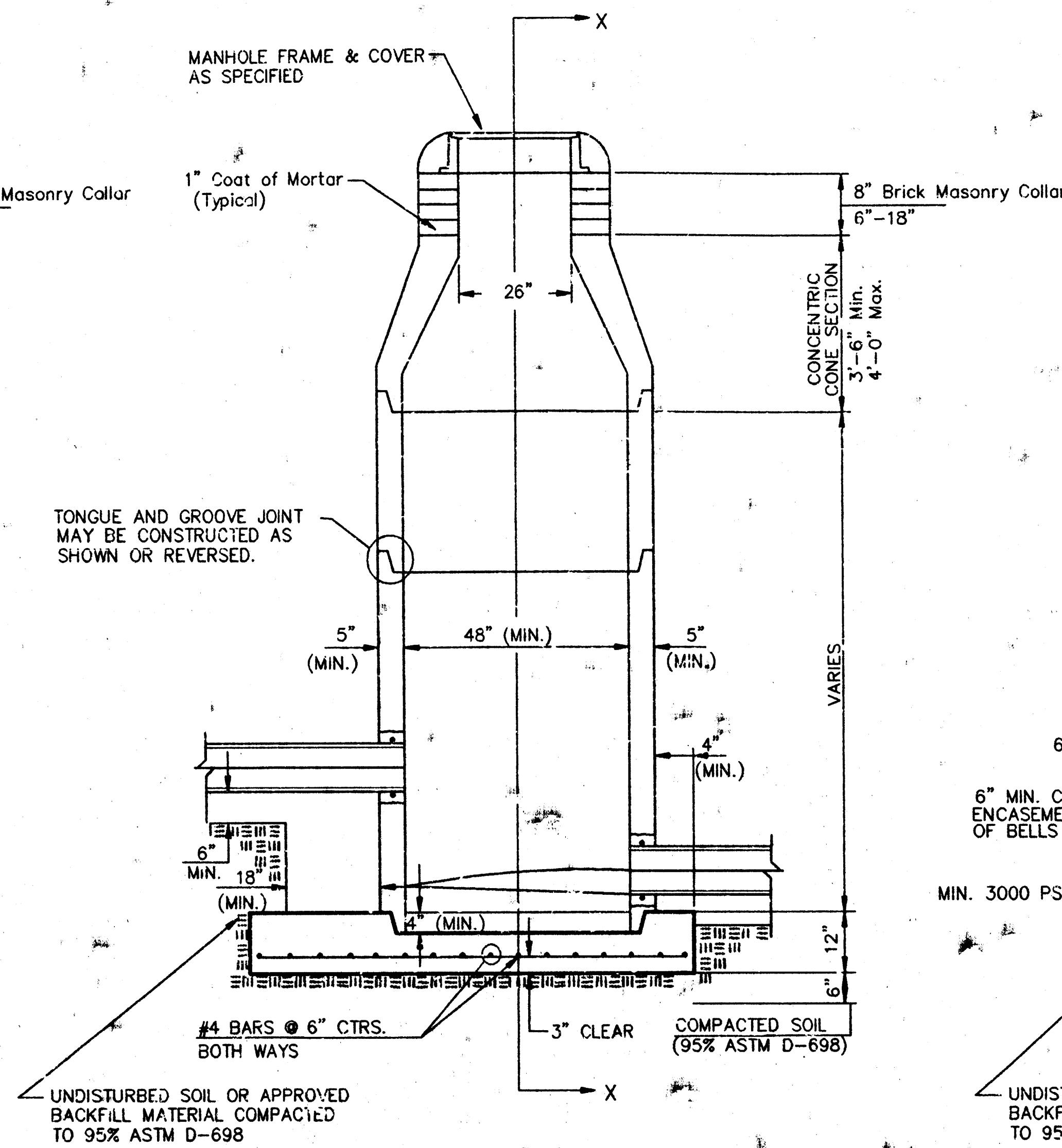


WEST WAREHOUSE ADDITION SANITARY SEWER IMPROVEMENTS			
BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER 468-76-245-82342-000-000-001			SHEET 2
DESIGN BP	DRAWN DMV	UTIL. CHECK'D AUGUST 1993	SCALE NOTED 4

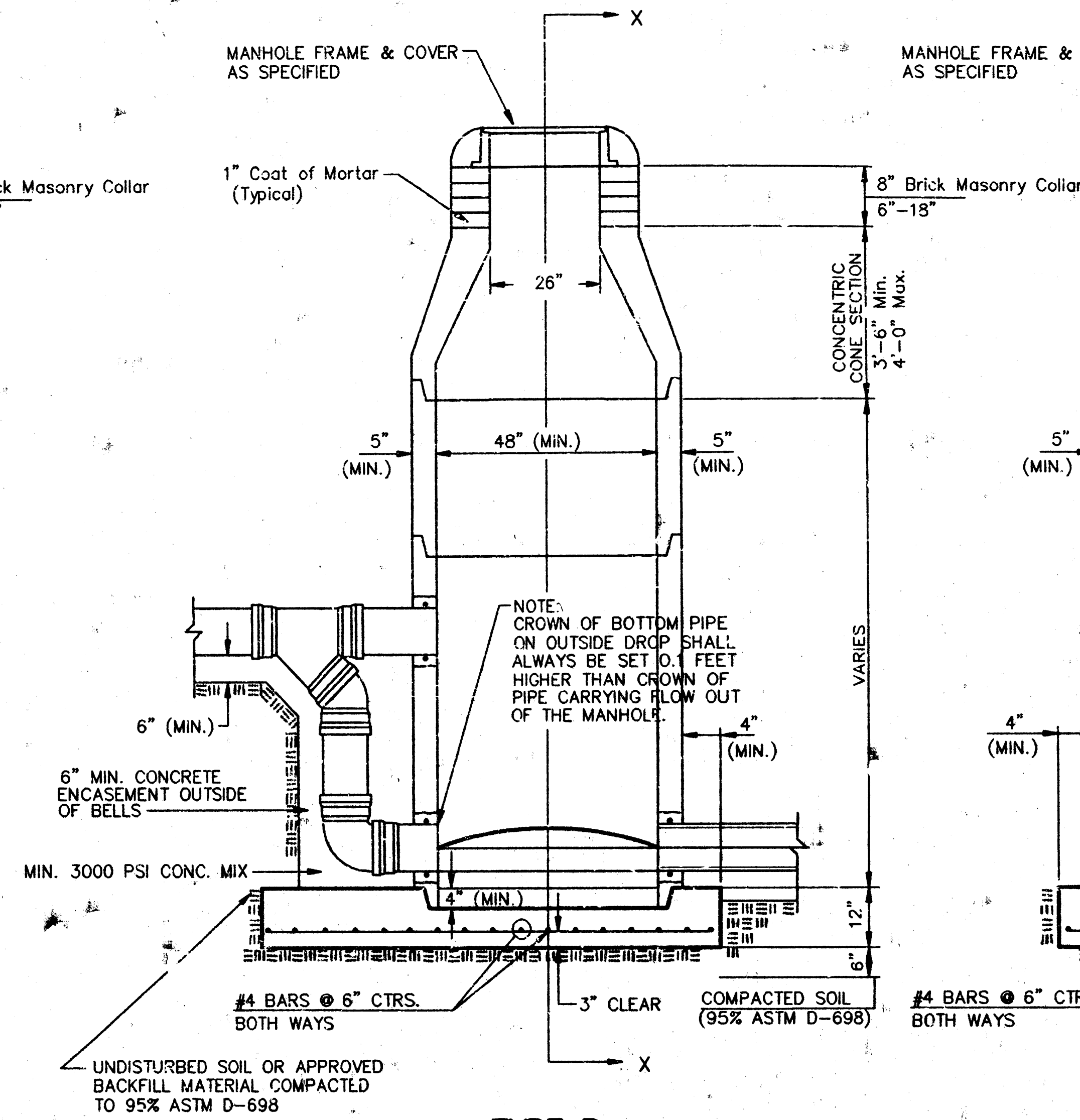
SEWER APPURTENANCES DETAILS



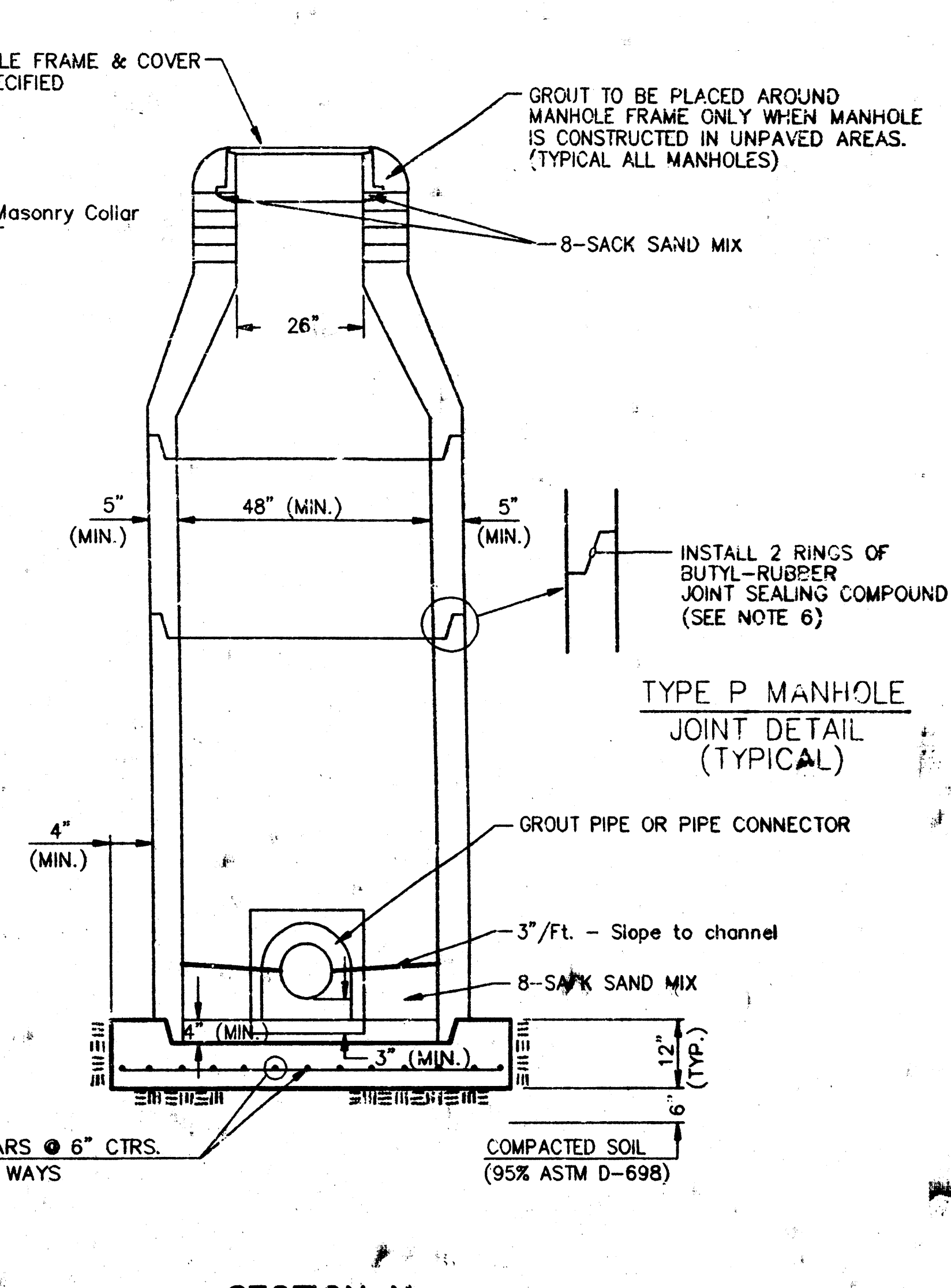
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



SECTION X
(TYPICAL)

GENERAL NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C475 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. 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 SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR P.V.C. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. 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 EPOXYLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. 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 SHAPE INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. 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 PAVING 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" SHALL HAVE AN INSIDE DIAMETER OF 4". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

11. 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 AT LEAST 3" 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.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTION ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNEL SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNEL SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INLET PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. FOR INSIDE DROP MANHOLES, FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN T. AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

15. 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.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

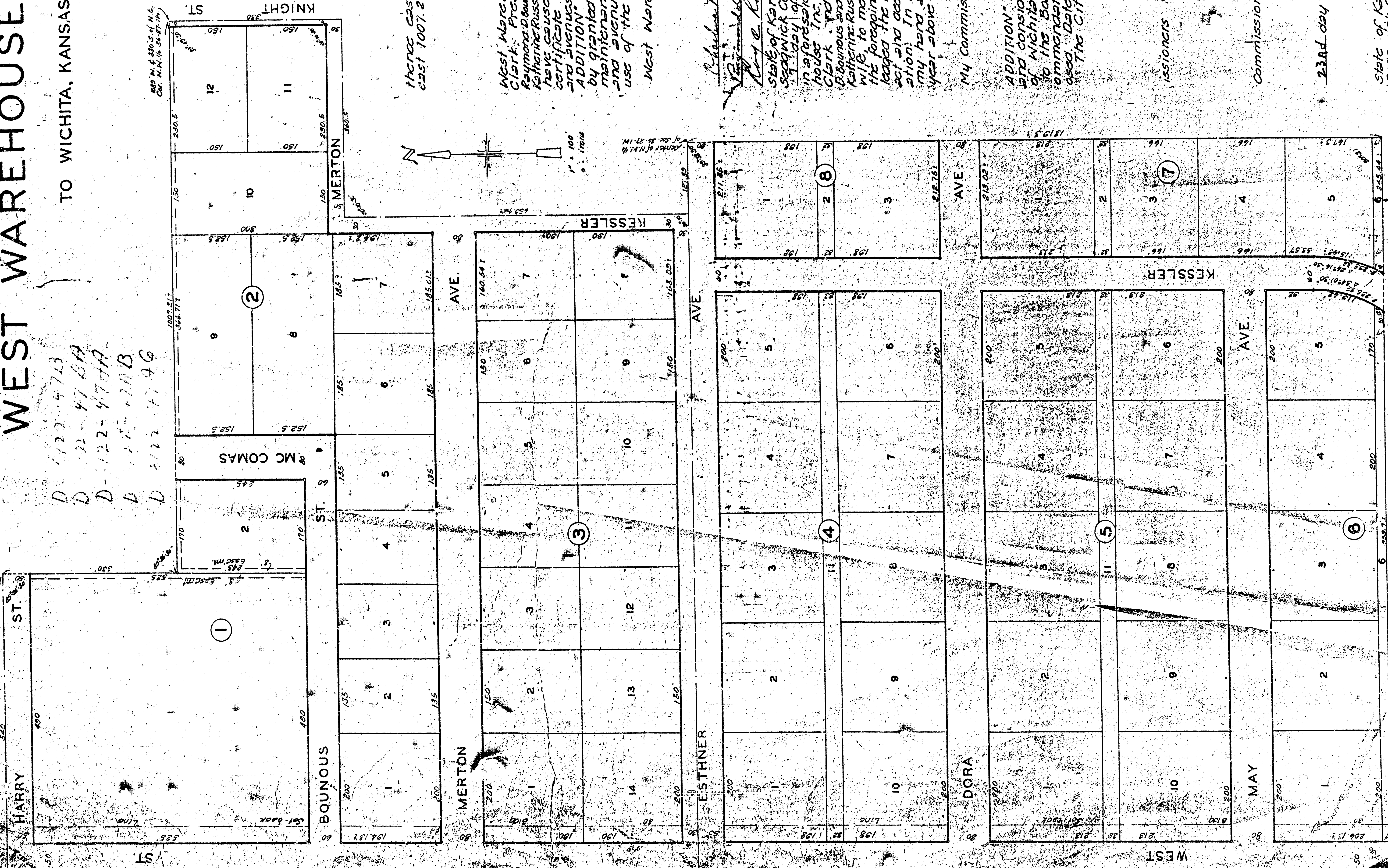
A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS, A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT ALLOWED.

CITY OF WICHITA, KANSAS STANDARD MANHOLE DETAILS SEWER APPURTENANCES DETAILS

BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211		REV.	
		SHEET	3
PROJECT NUMBER		DATE	08-20-92
468-76-245-82342-000-000-001		SCALE	OF 4
DESIGN	DRAWN	APPROVED	

WEST WAREHOUSE ADDITION

TO WICHITA, KANSAS.



State of Kansas) ss. I, Clyde M. Baughman, Secretary of the Board of County Commissioners, do hereby certify that I have surveyed and plat the WEST WAREHOUSE ADDITION in Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed described as follows: All of the S.W. 1/4 of the N.W. 1/4 of Sec. 10, T. 23 S., R. 1 W., S. 10, that lies of the N.E. of said 1/4 sec. beginning 108 feet west and 330 feet south of the N.E. cor. of said 1/4 sec. thence south 1/2 sec. N.E. thence with the east line of said 1/4 section 330 feet thence west parallel with the north line of said 1/4 sec. 360.5 feet thence south 1/2 sec. N.E. 46 feet more or less of said south line of said N.E. 1/2, thence west to the N.W. cor. of said 1/4 sec. thence east 510 feet thence south 330 feet thence east 1007.21 feet, more or less to the place of beginning.

KNOW all men by these presents that West Warehouse, Inc., a corporation organized under the laws of the State of Kansas, do hereby certify that I, Clyde M. Baughman, Secretary of the Board of County Commissioners, do hereby certify that I have surveyed and plat the WEST WAREHOUSE ADDITION in Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed described as follows: All of the S.W. 1/4 of the N.W. 1/4 of Sec. 10, T. 23 S., R. 1 W., S. 10, that lies of the N.E. of said 1/4 sec. beginning 108 feet west and 330 feet south of the N.E. cor. of said 1/4 sec. thence south 1/2 sec. N.E. thence with the east line of said 1/4 section 330 feet thence west parallel with the north line of said 1/4 sec. 360.5 feet thence south 1/2 sec. N.E. 46 feet more or less of said south line of said N.E. 1/2, thence west to the N.W. cor. of said 1/4 sec. thence east 510 feet thence south 330 feet thence east 1007.21 feet, more or less to the place of beginning.

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This plat of WEST WAREHOUSE ADDITION, to Wichita, Kansas, has been submitted to and considered by the City Planning Commission of Wichita, Kansas, and is hereby transmitted to the Board of City Commissioners with the recommendation that such plat be approved and recorded. Dated this 18 day of January, 1957. The City Planning Commission of Wichita, Kansas.

Approved by the Board of County Commissioners this 23rd day of January, 1957. Clyde M. Baughman, Secretary of County Commissioners. Entered on transfer record this 23rd day of January, 1957. Clyde M. Baughman, Secretary of County Commissioners. State of Kansas) ss. This is to certify that this plat was filed for record in the office of the Register of Deeds, this 23rd day of January, 1957, at 10 o'clock A.M., and is duly recorded #2302.