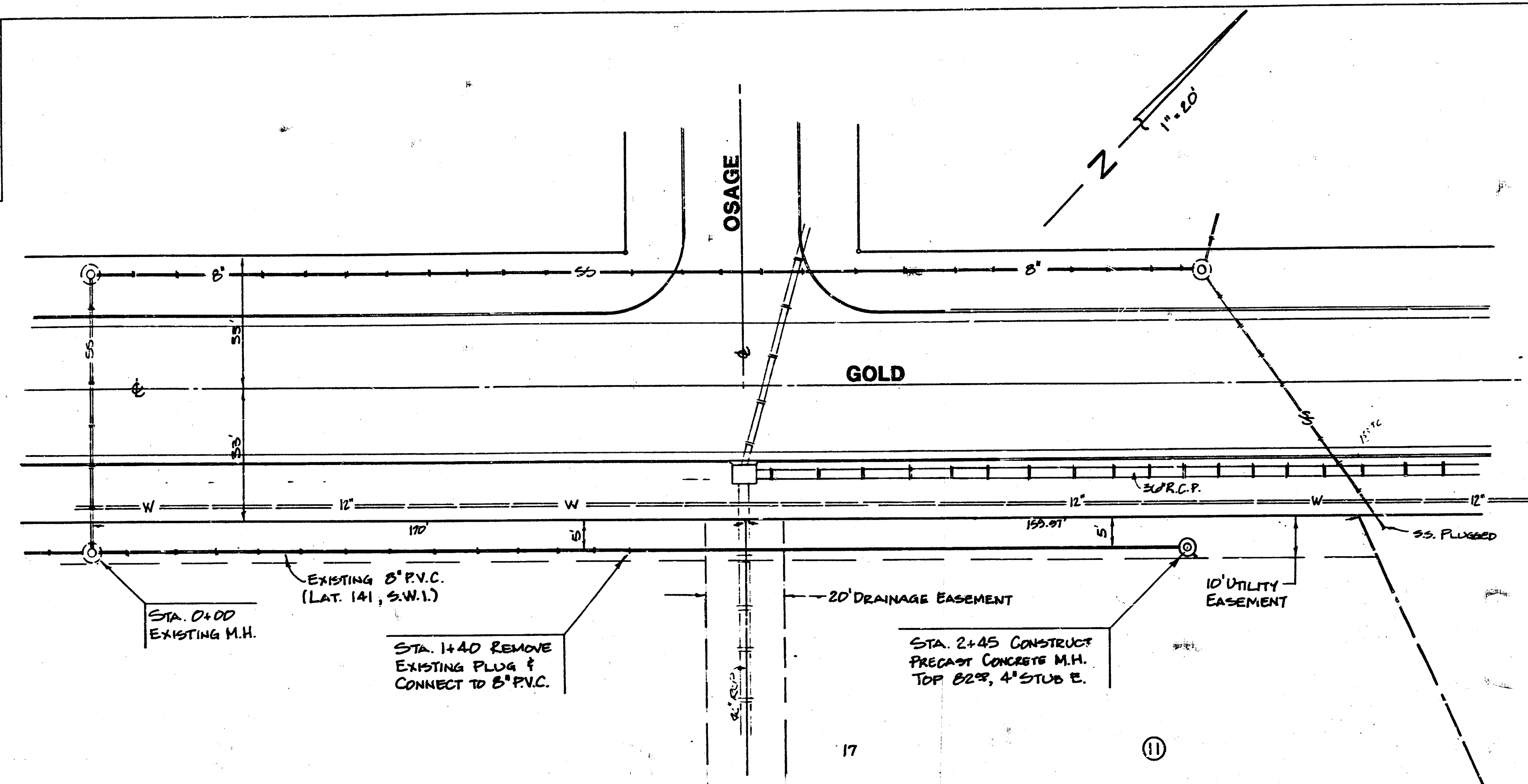


PLAN	SURVEYED, PLOTTED ALIGNMENT CHECKED ET. OF WAY CHECKED	BY	DATE
NOTE BOOK			
No. _____			

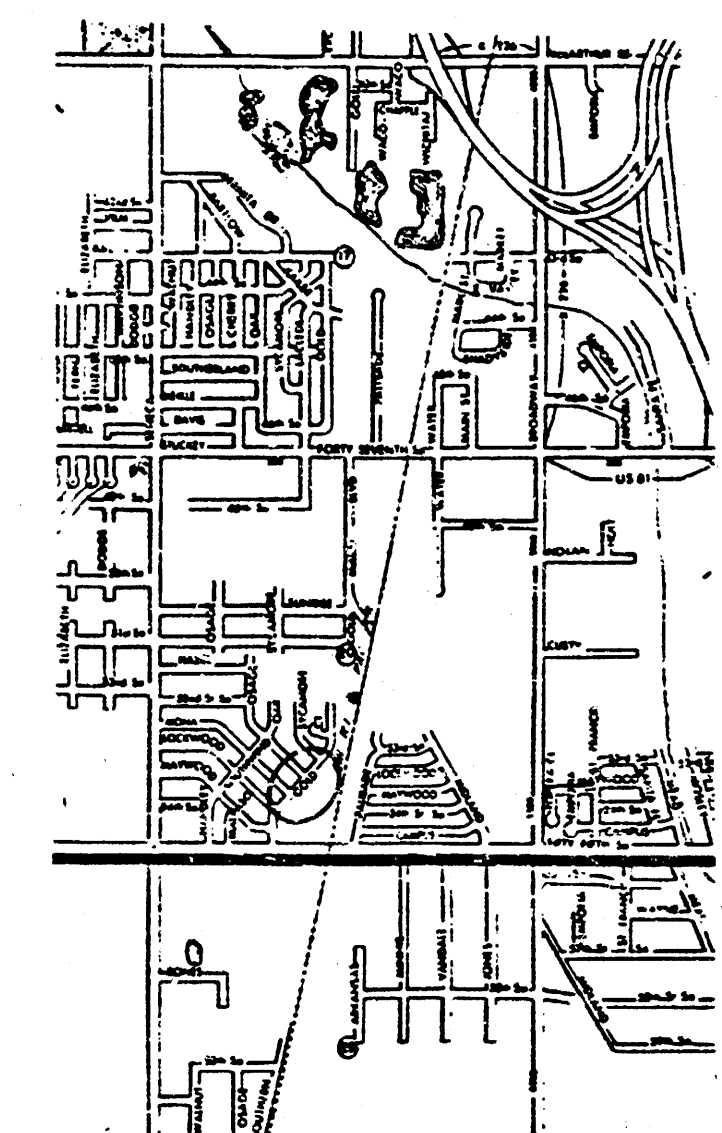
DATE	BY	SUBMITTED	NOTED	COPIES CHECKED	9 A.M. NOTED



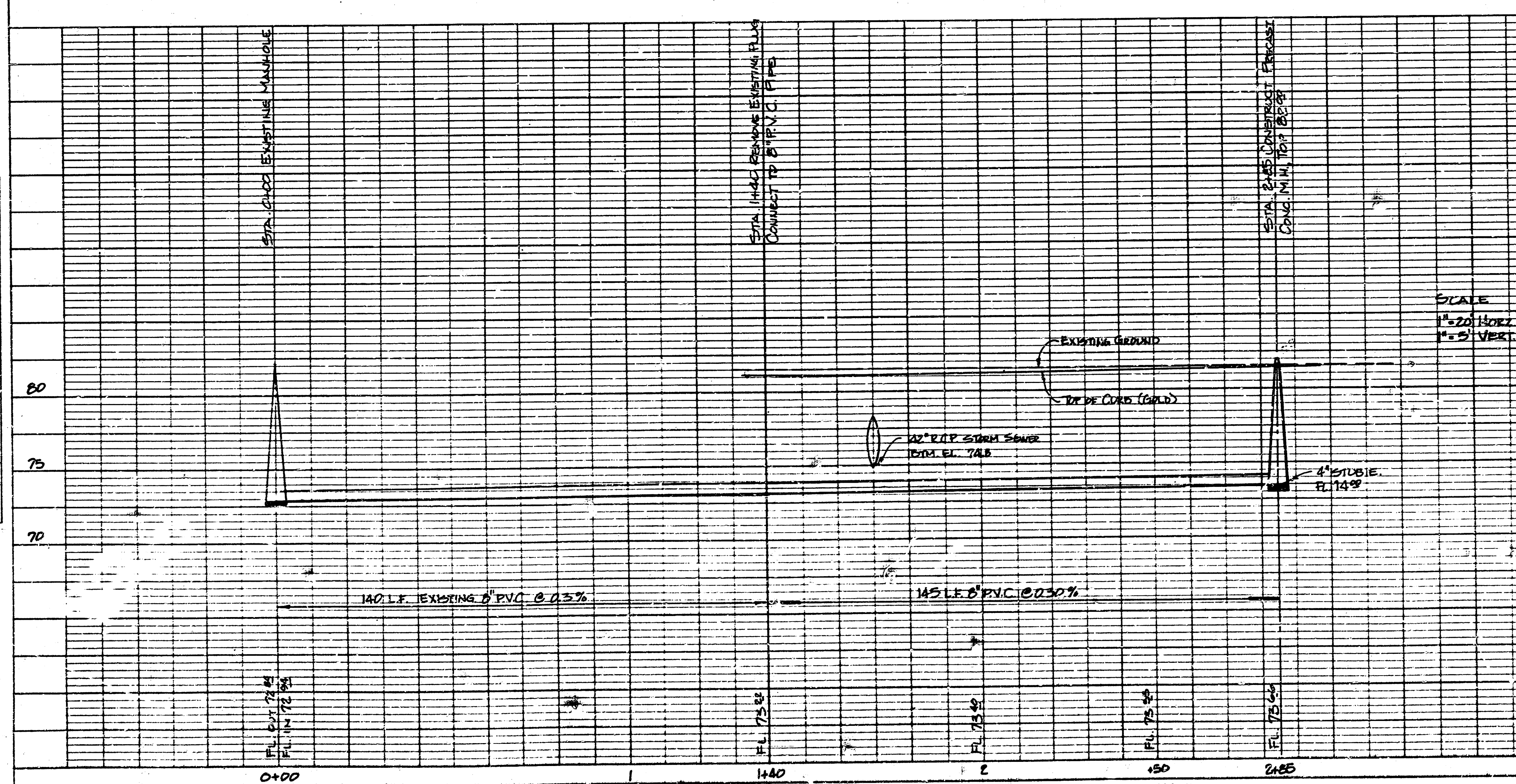
APPROVAL AS NOTED
By CITY ENGINEER OF WICHITA
Sanitary Sewers DOB 4/24/95
Storm Sewers _____
Driveway Approaches _____

NOTE TO CONTRACTOR

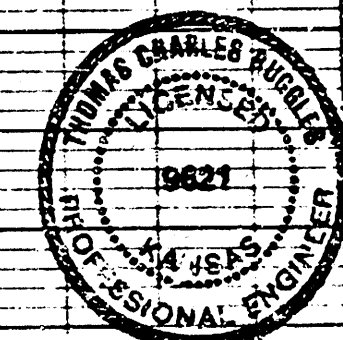
This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will pay for the City of Wichita for all costs of plan, survey, inspection and boring per contract.



LOCATION MAP



SCALE
1" = 20' HORZ
1" = 5' VERT



**PRIVATE SANITARY SEWER EXTENSION
TO SERVE PART OF LOT 17, BLOCK 11
SOUTH SENECA GARDENS FOURTH ADD.**

CITY OF WICHITA, KANSAS

Proj. no. 488-76-245-80001-000-000-018

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
916/262-7271 • 330 LAURA • WICHITA, KANSAS 67211

 $\frac{1}{2}$

420
HIGH BY FEDERAL AND SHEET
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
TELEPHONE
PRINTED IN U.S.A.

GENERAL NOTES

CONCRETE USED IN CONCRETE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE 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. ALL INSIDE SURFACES OF THE MANHOLE WALL WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE PROTECTED BY COATING SUCH SURFACES WITH TWO COATS OF SERIES 66 HI-BUILD EXPOLINE AS MANUFACTURED BY TENNACOR OR APPROVED EQUAL. EACH COAT SHALL HAVE A DRY FILM THICKNESS OF BETWEEN 4 TO 6 MILS. SUCH COATING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASE. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. REINFORCING STEEL SHALL BE PLACED 3" ABOVE THE BOTTOM OF THE MANHOLE BASE.

PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE ENCASED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE ENCASEMENT SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. ENCASEMENT SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF ENCASEMENT WITHIN MANHOLE EXCAVATION OF TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

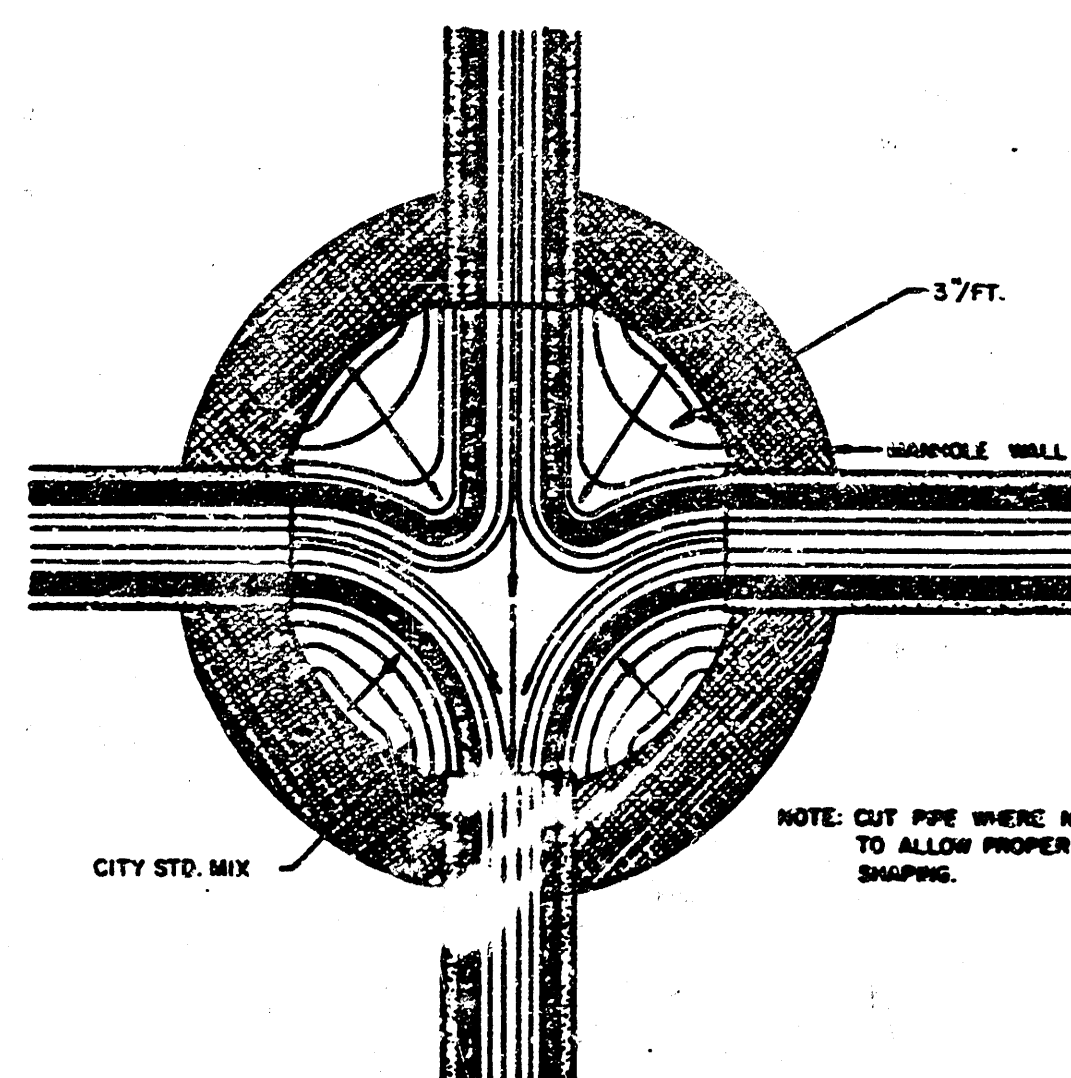
ALL PIPE GROUTING SHALL BE DONE WITH NON-METALIC SHRINKAGE CORRECTING GROUTS SUCH AS MASTER BUILDER'S "EMBECCO 713"; SET PRODUCTS INC. "SET"; OR AN APPROVED EQUAL. THE GROUTED INLET PIPE CONNECTION SHALL BE SEALED ON THE EXTERIOR WITH BITUMASTIC SUPER SERVICE BLACK AS MANUFACTURED BY KOPPERS, TARMASTIC 103 AS MANUFACTURED BY UNITED STATES STEEL, 450 HEAVY TENSIMCOOL AS MANUFACTURED BY TENSIMCO OR AN APPROVED EQUAL. APPLICATION SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS.

THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE 12" RING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT 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 THE 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.

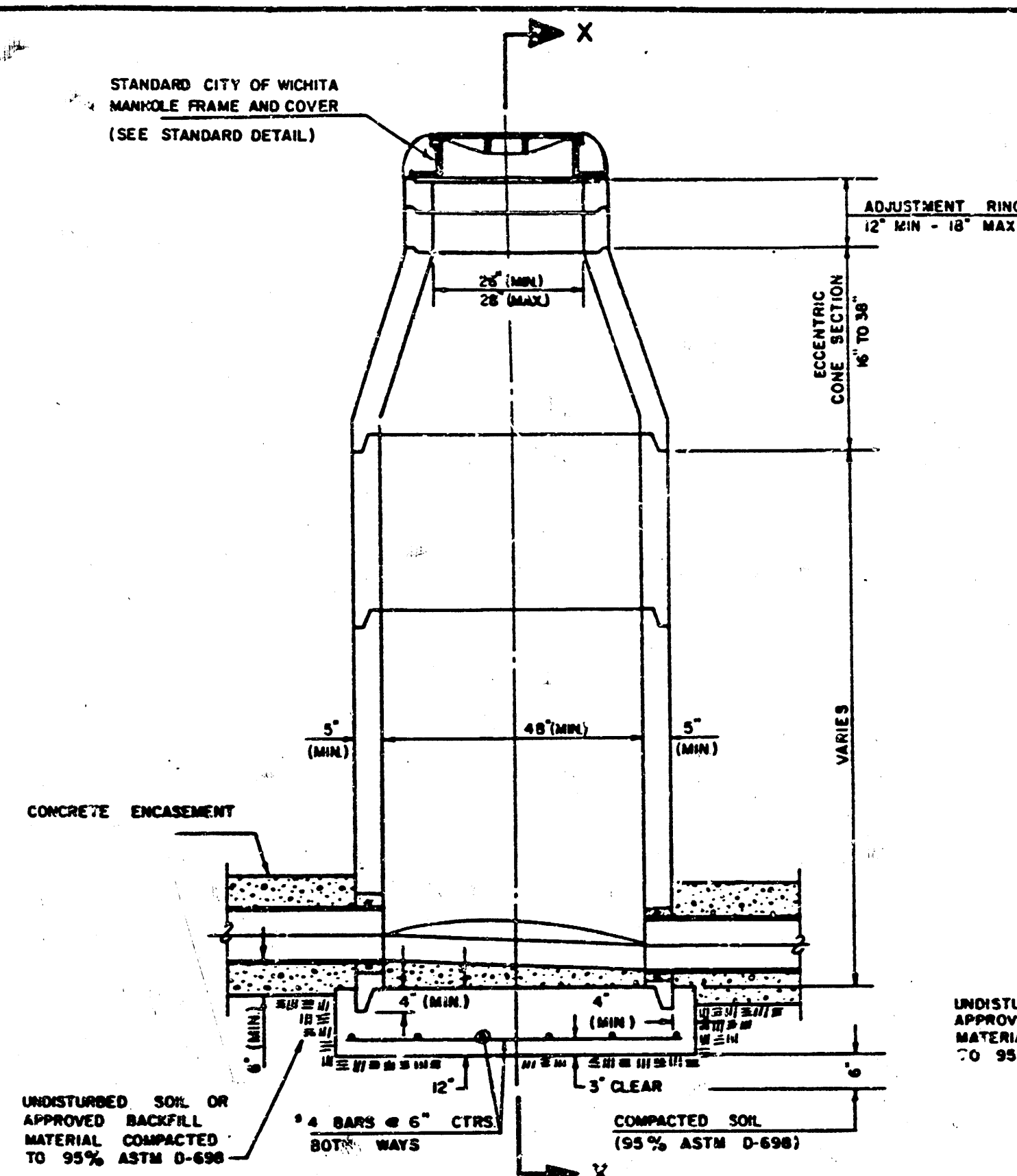
MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 1' 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.

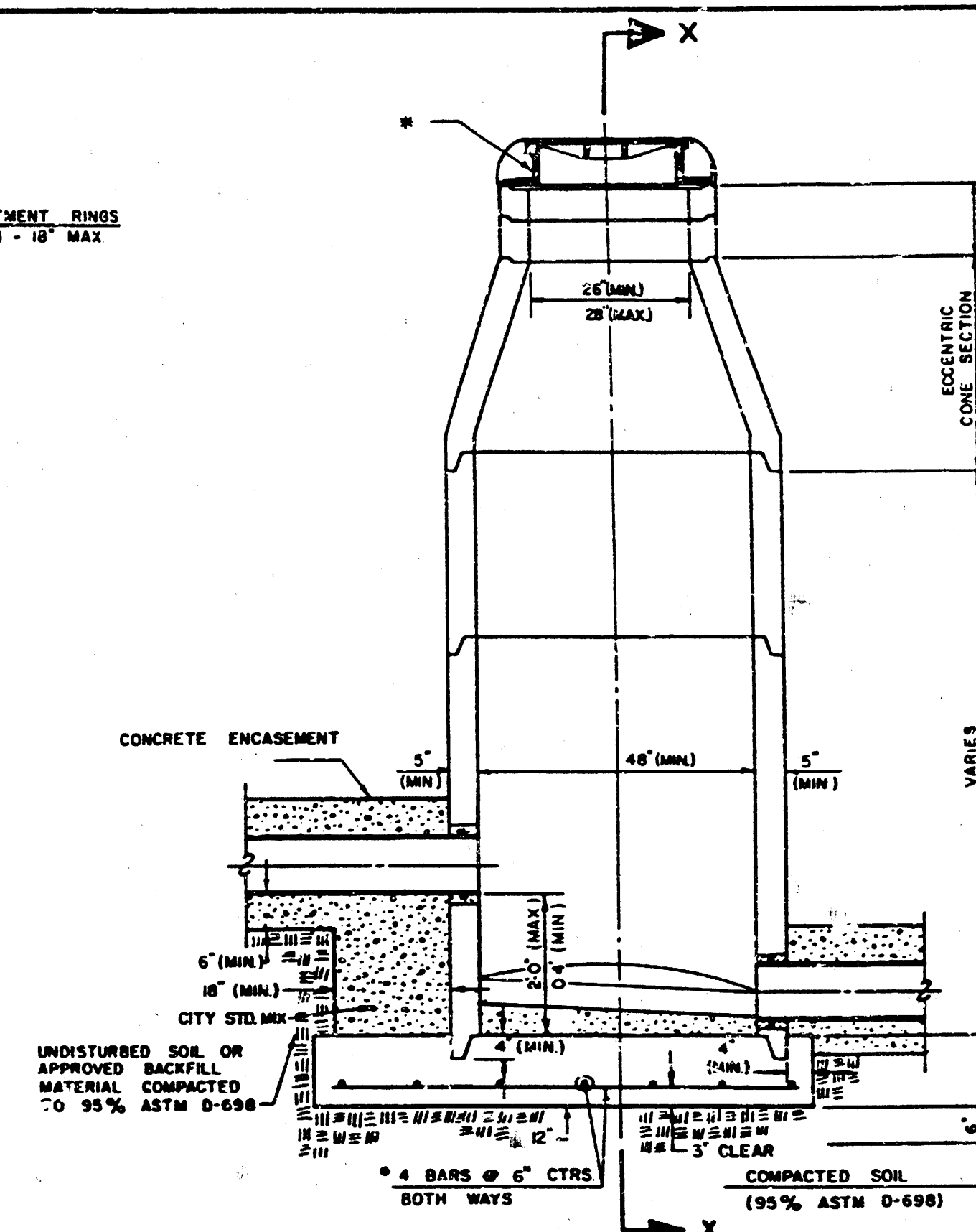
BUTYL-RUBBER JOINT SEALER SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.



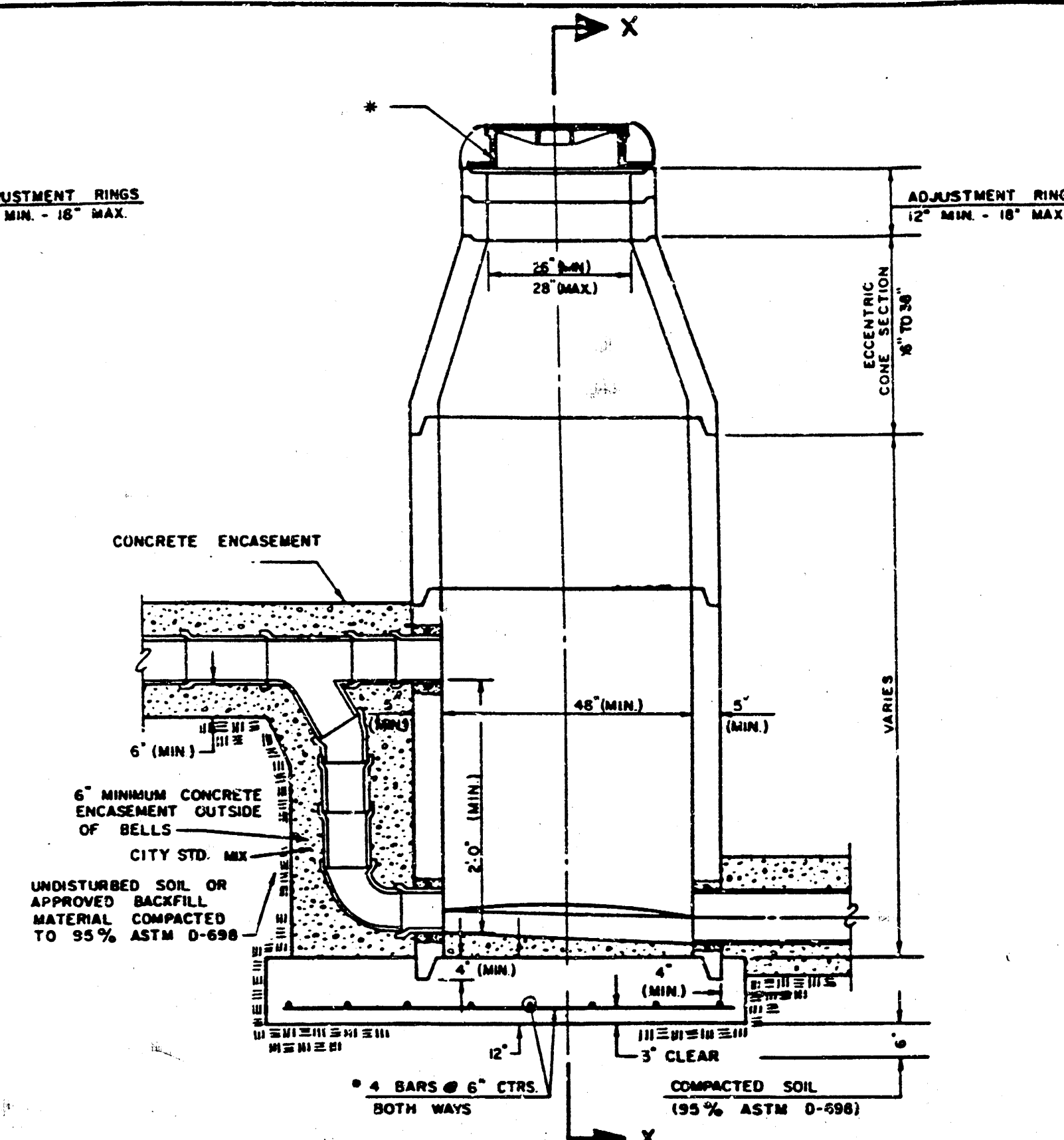
TYPICAL MANHOLE FLOOR SHAPING



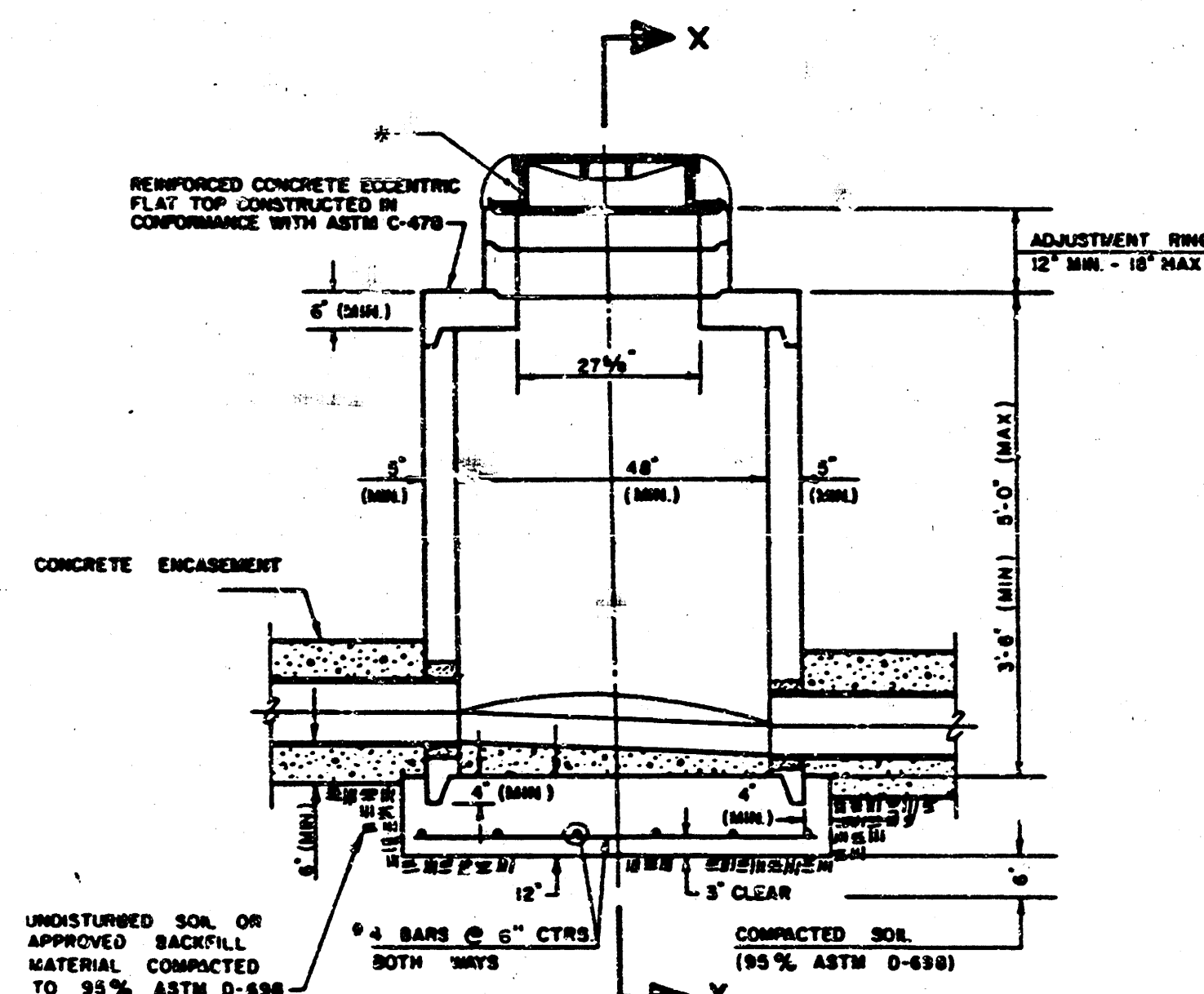
PRECAST STANDARD MANHOLE



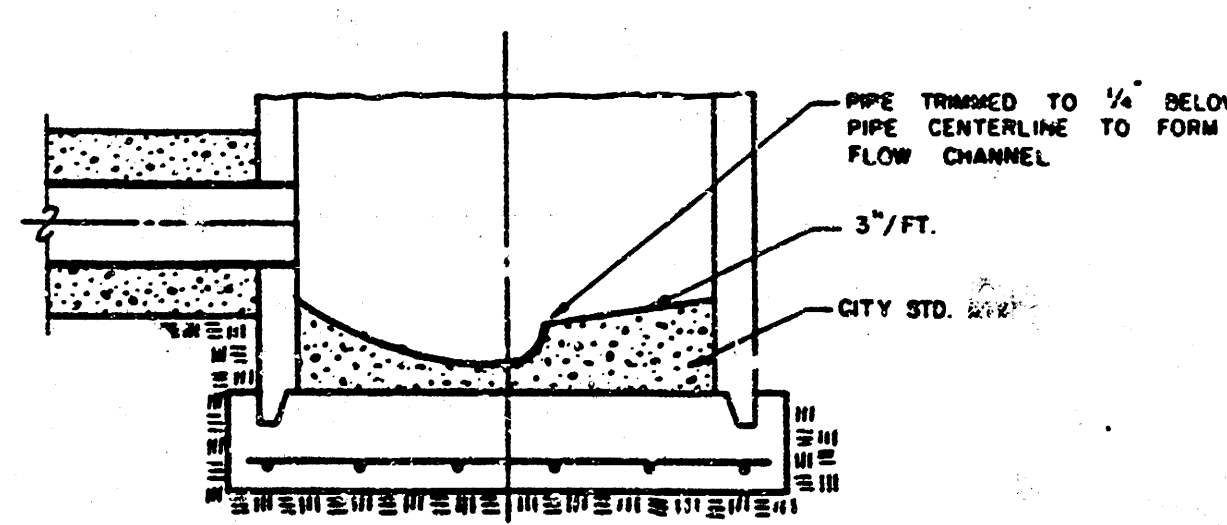
PRECAST INSIDE DROP MANHOLE



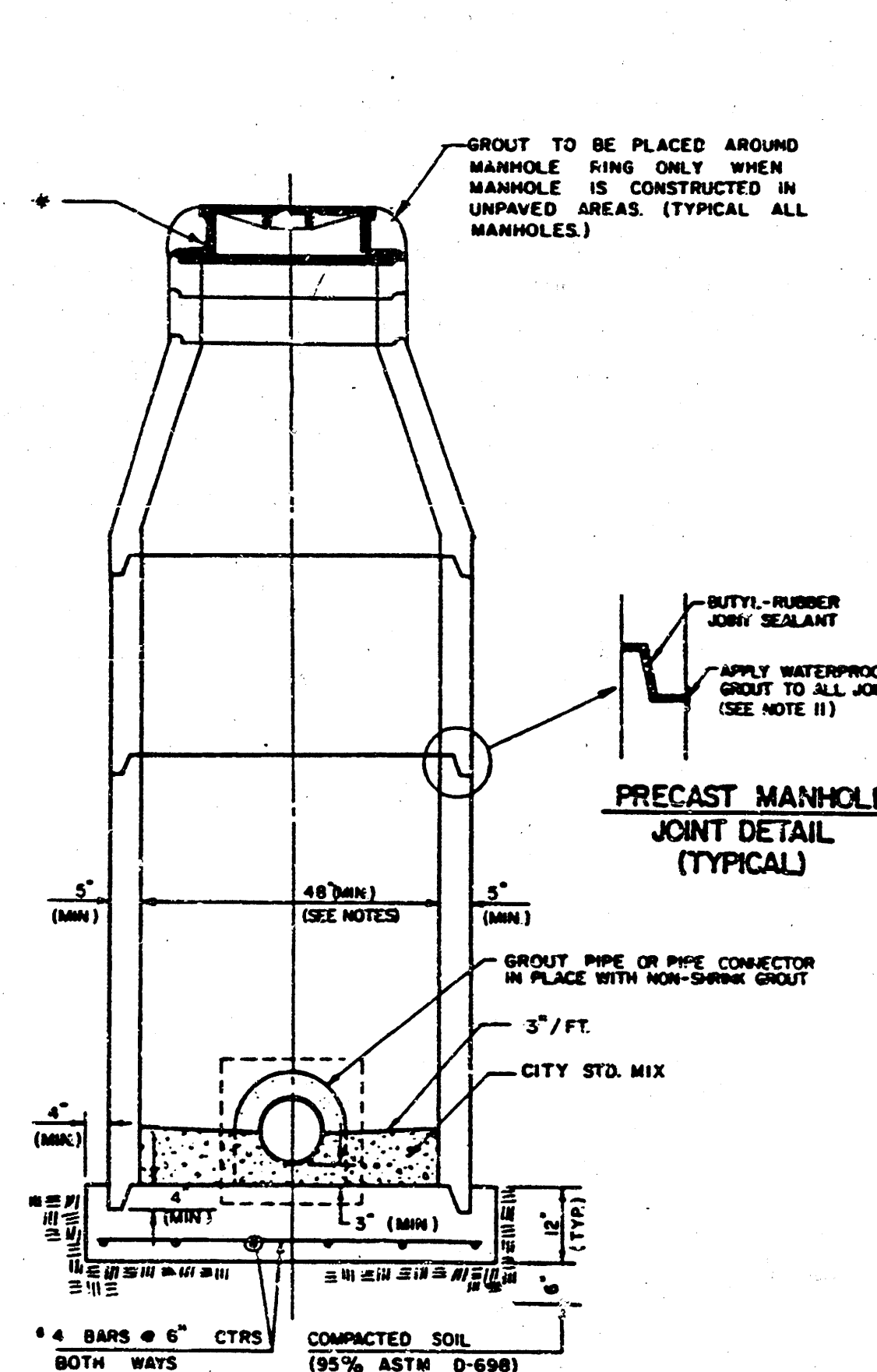
PRECAST OUTSIDE DROP MANHOLE



PRECAST SHALLOW MANHOLE



SECTIONAL ELEVATION - INVERT



SECTION X (TYPICAL)

PRECAST MANHOLE NOTES

1. IF THE OPTION OF THE MANHOLE IS CHANGED, THE MANHOLE STANDARD APPLICABLE TO THE CONSTRUCTION SHALL BE THE ONE TO WHICH THE MANHOLE SHALL BE CHANGED.
2. ALL PRECAST MANHOLE SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS.
3. APPROVED FLEXIBLE WATERPROOF GROUTS SHALL BE USED OR EXCEED THE TEST REQUIREMENTS OF ASTM C-483 SHALL BE INSTALLED TO SEAL THE JOINTS TO THE MANHOLE WALL AND THE CONCRETE PIPE OR PVC PIPE IS USED.
4. PIPE FLOOR SHALL BE PROVIDED BY PIPE SUPPLIER WHEN AVAILABLE.
5. ALL MANHOLE CONSTRUCTION SHALL BE WITH TYPICAL.
6. TOP OF MANHOLE FLOOR SHALL BE AT LEAST 12" ABOVE THE FLOOR LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT THROAT THICKNESS OF MANHOLE FLOOR.
7. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST EDITION OF CITY CODE AS MODIFIED BY THE SPECIFICATIONS.
8. CONCRETE FOR MANHOLE BASES SHALL BE AS SPECIFIED IN THE SPECIFICATIONS.
9. PRECAST MANHOLES SHALL BE SET AT LEAST 12" INTO THE MANHOLE BASE.
10. MANHOLES WITH PIPE SIZES LARGER THAN 12" SHALL HAVE 5" INSIDE DIAMETER (MIN.).
11. WATERPROOF GROUT FOR PRECAST JOINTS SHALL BE PREPARED WITH THE PROPORTIONS LISTED BELOW, OR ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, IF APPROVED BY THE ENGINEER.

MATERIAL	PARTS BY WEIGHT
ACRYLIC POLYMER*	27
PORTLAND CEMENT	100
LIME	14
SAND	140

*ACRYLIC POLYMER, "THORSEAL" ACRYLIC GROUT, MANUFACTURED BY THORSEAL PRODUCTS CORP., OF APPROVED EQUAL.

No.	Revision	By	Date
DETAIL PRECAST CONCRETE MANHOLE CITY OF WICHITA, KANSAS BAUGHMAN COMPANY, P.A. SURVEYING & ENGINEERING 316/263-7271 • 330 LAURA • WICHITA, KANSAS 67211			

PROJ. NO. 448-70-245-B0001-000-000-018