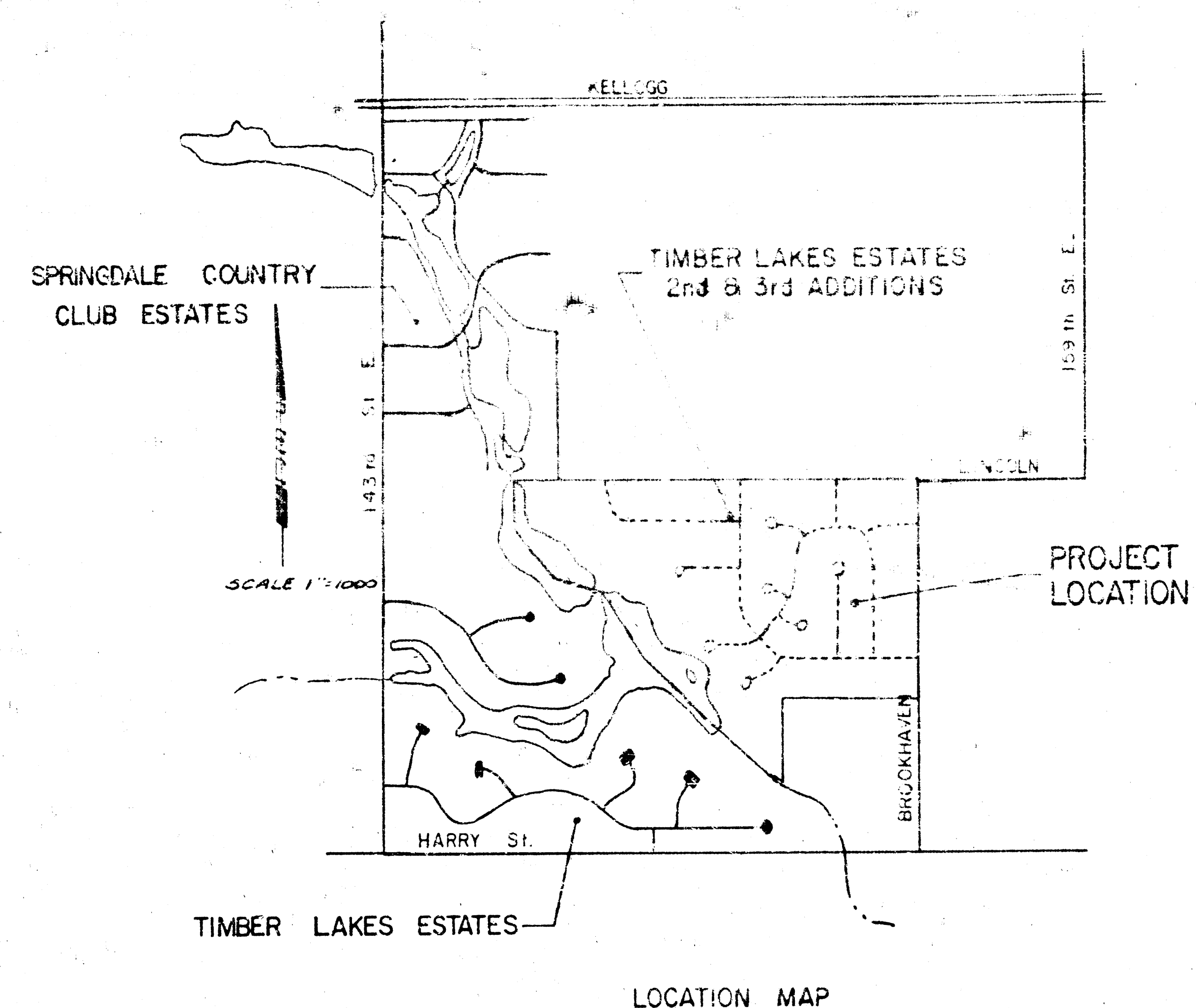
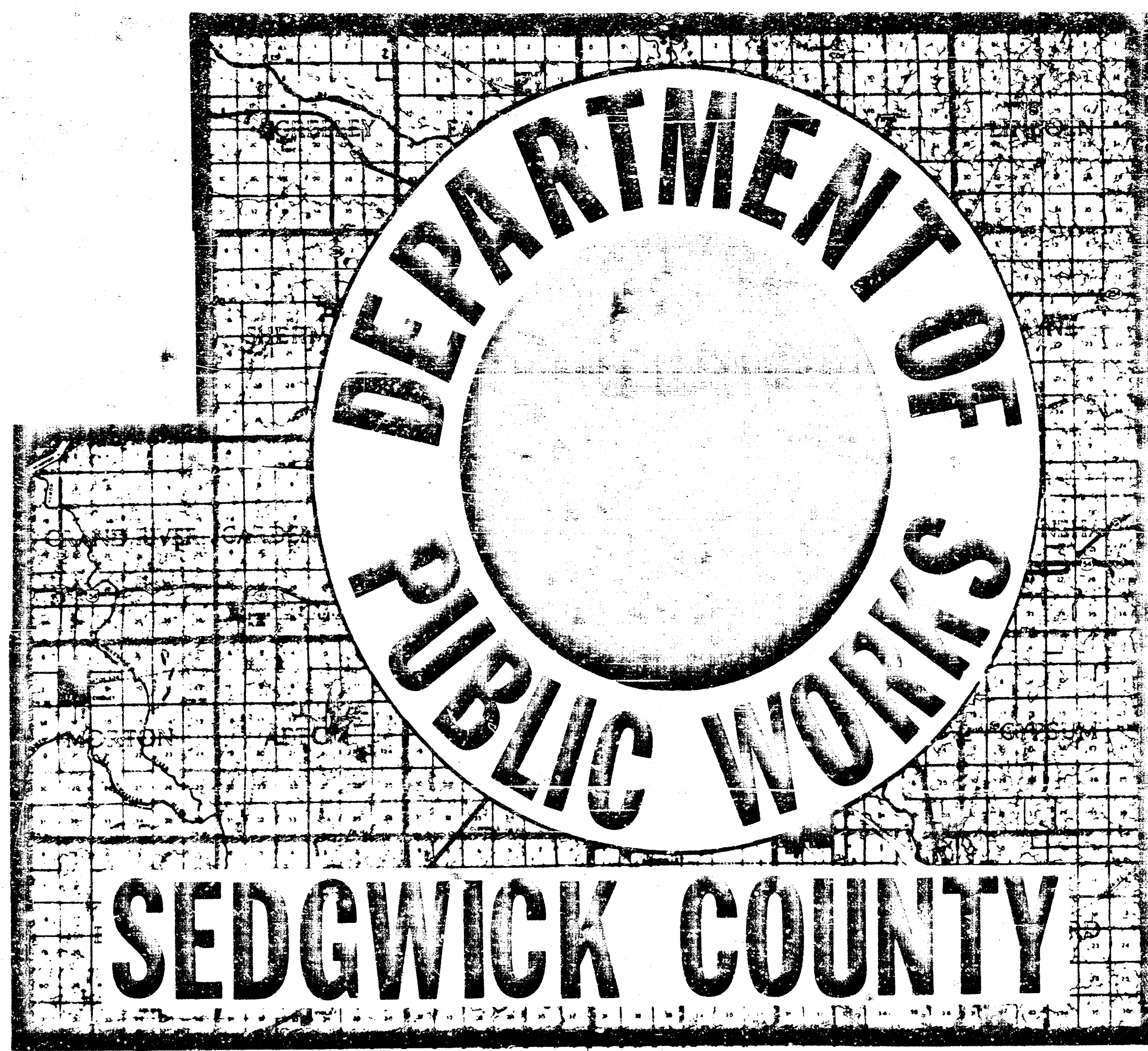


INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP & SCHEDULE
SHEET NO. 3-4	SANITARY SEWER DETAILS
SHEET NO. 5-7	PLAN PROFILES



CONSTRUCTION PLANS FOR

SANITARY SEWER IMPROVEMENTS

IN

TIMBER LAKES ESTATES SECOND AND THIRD ADDITION

PHASE I

SEPT. 1977

CONVENTIONAL SIGNS

WIRE FENCE	— x — x — x —
HEDGE ROW	~~~~~
RAILROADS	— + + + + + —
SURVEY LINE	— 9 — 100 —
RIGHT OF WAY	— — — — —
TELEPHONE POLE	•
POWER POLE	■
COMB. POWER & TELEPHONE	— ■ —
TOWNSHIP LINE	— / / / / / —
CONSTRUCTION LIMITS	— - - - -
GUARD FENCE	— • • • • —
TREES	○ ○

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS

WICHITA, KANSAS

APPROVED

[Signature]

CITY ENGINEER OF WICHITA, KANSAS

DATE 9/20/77

FILED

COPY FILED IN THE OFFICE OF THE SEDGWICK COUNTY CLERK

[Signature] 9-20-77

COUNTY CLERK DATE

APPROVED

COUNTY ENGINEER/DIRECTOR OF PUBLIC WORKS

DATE 9-20-77

APPROVED

[Signature]

CHAIRMAN PRO-TEM

BOARD OF COUNTY COMMISSIONERS

APPROVED

[Signature] 9-20-77

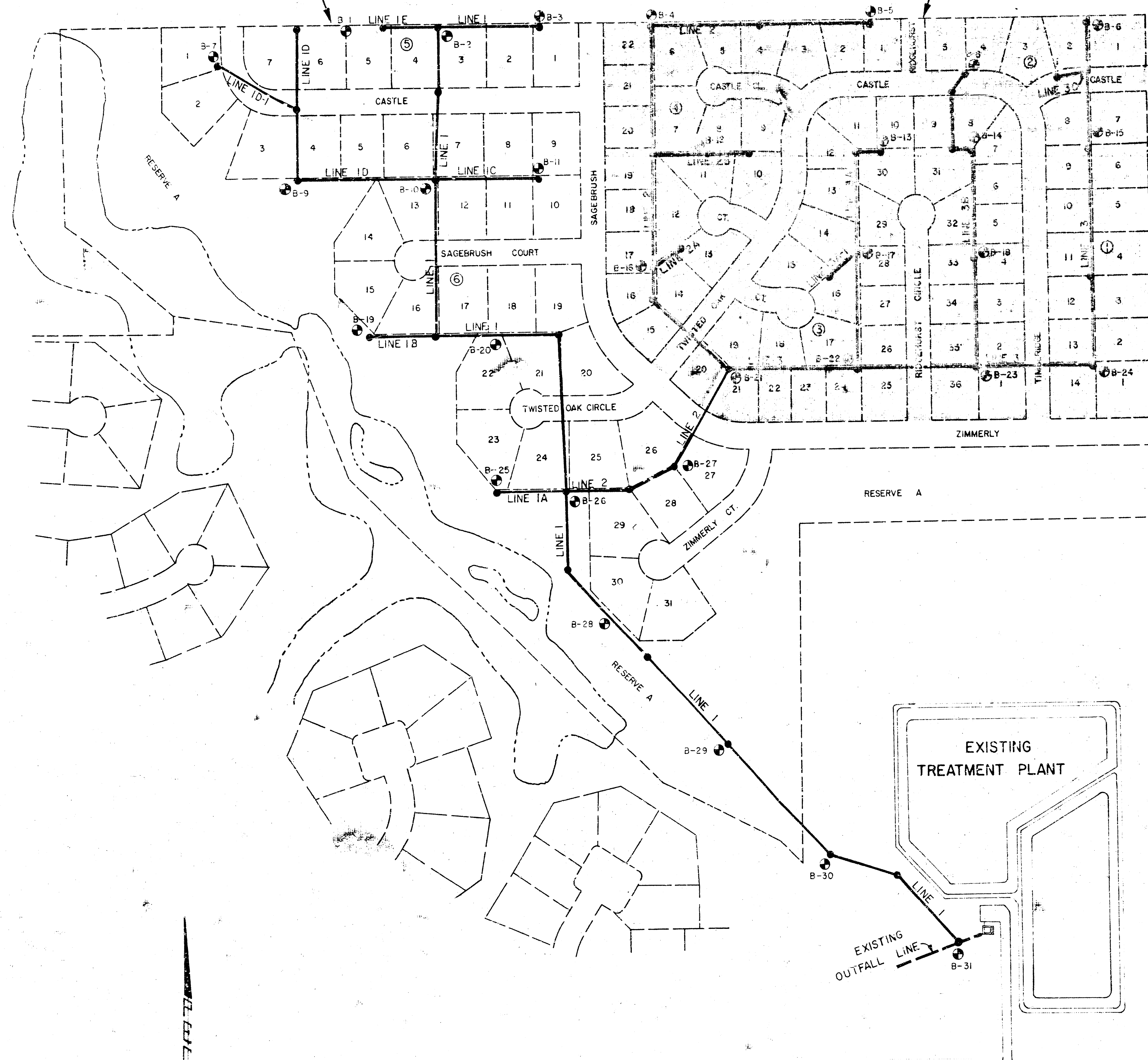
WICHITA SEDGWICK COUNTY

DEPARTMENT OF COMMUNITY HEALTH

**TIMBER LAKES ESTATES SECOND ADDITION
SANITARY SEWER IMPROVEMENTS**

**TIMBER LAKES ESTATES THIRD ADDITION
FUTURE SANITARY SEWER IMPROVEMENTS**

SEWER LINE	SCHEDULE
LINE NO.	SHEET NO.
1	5-6
1A	6
1B	6
1C	6
1D	7
1D-1	7
1E	7
2	7

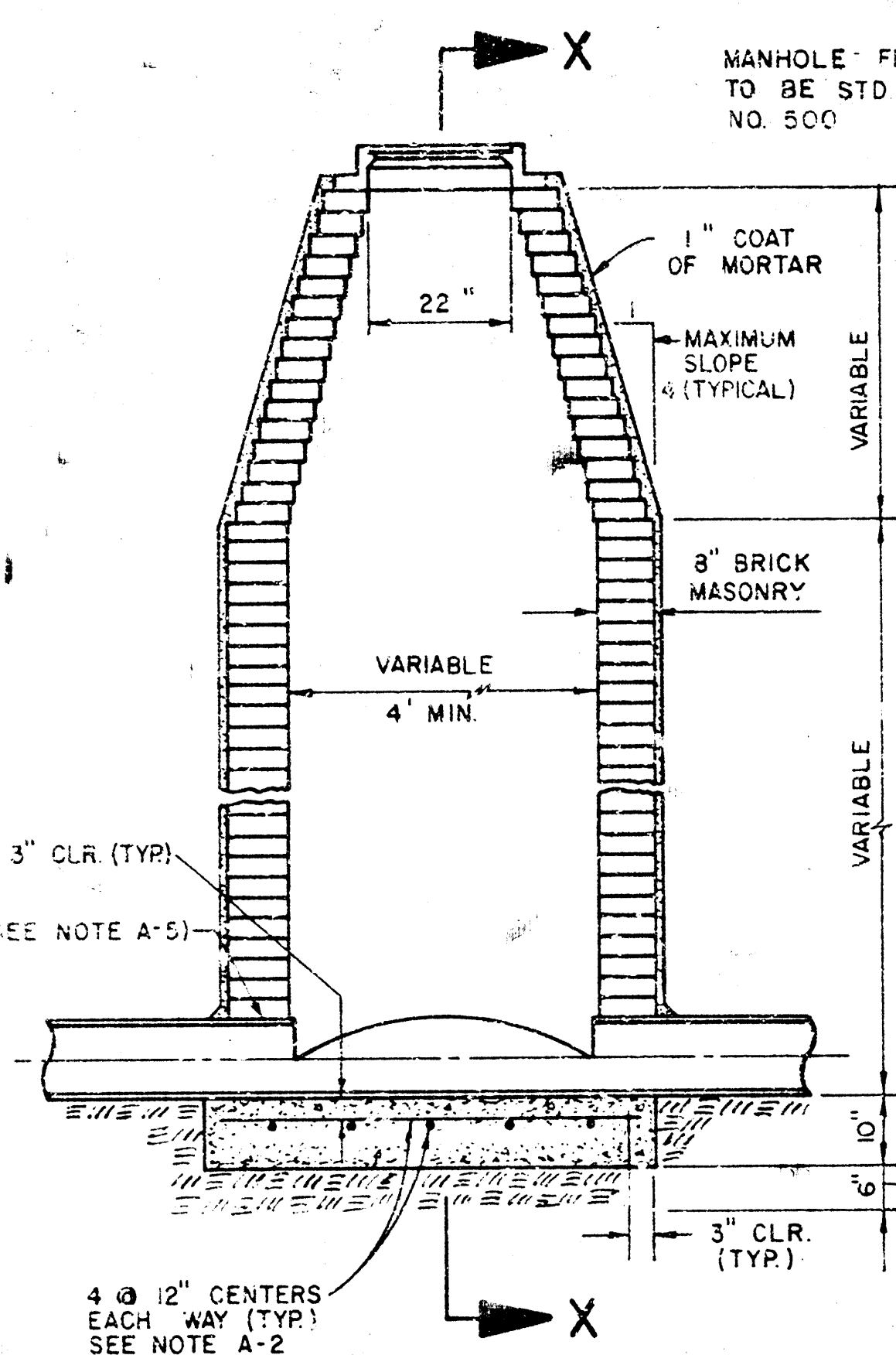


Scale 1"=200'

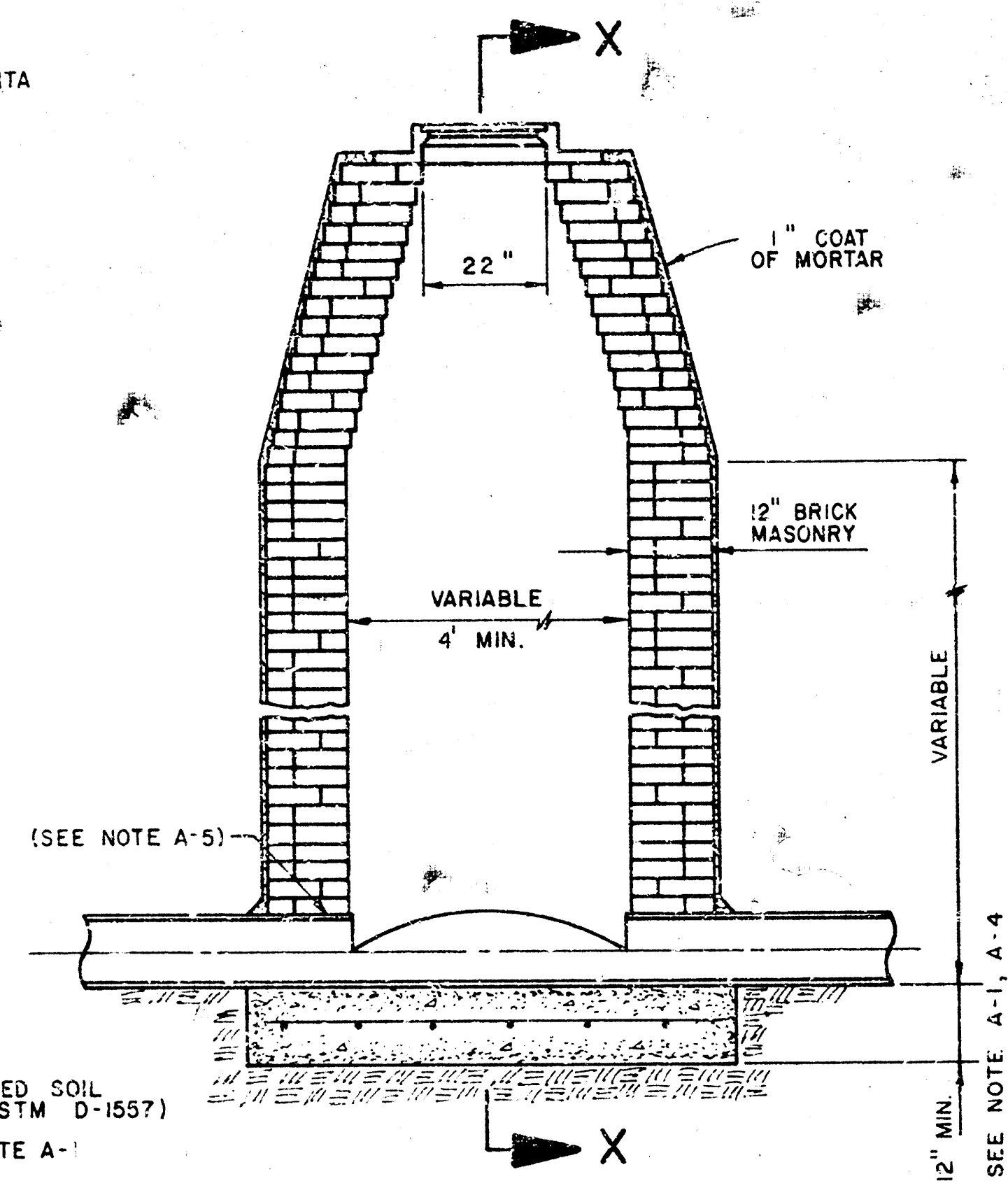
BENCH MARK LIST

- B.M. REFERENCE - PLANT SITE P.M. P.R. SPIKE IN ROOT AT THE NORTHEASTERNLY SIDE 42" DIA. COTTONWOOD AT THE W. SIDE TREATMENT PLANT AREA 60' W.N.W. OF LIFT STATION. ELEV. 1289.24 (M.S.L.)
- B.M. #1 TOP OF 1/2" PIPE 1285' S. AND 11' W. OF N.E. COR. 1/4, SEC. 25, T27S, R2E, OF 6TH P.M. ELEV. 1299.5 (M.S.L.)
- B.M. #2 P.P. SPIKE IN SOUTHWESTERNLY SIDE OF HEDGE TREE (1.0' ABOVE GROUND) 22' W. OF N.E. CORNER W. 1/2, S.E. 1/4, SEC. 25 OF 6TH P.M. ELEV. 1298.96 (M.S.L.)
- B.M. #4 TOP OF 1/2" PIPE 28' E. AND 73' S. OF N.E. COR. S.W. 1/4, SEC. 25, T27S, R2E, OF 6TH P.M. ELEV. 1300.9 (M.S.L.)

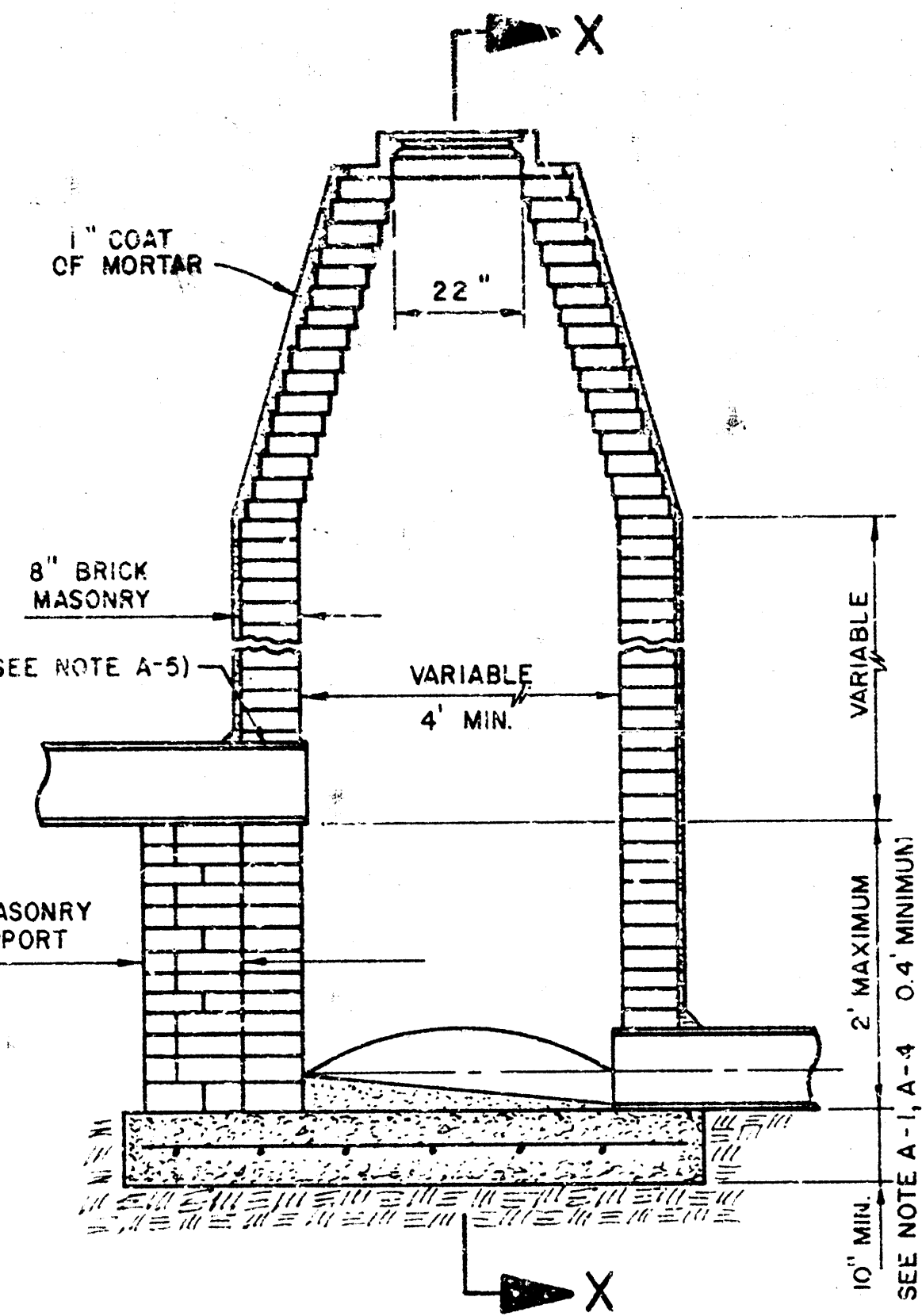
No.		Revision	
SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS G. C. McLURE, JR., PE DIRECTOR & COUNTY ENGINEER			
KEY MAP & SCHEDULE			
SANITARY SEWER IMPROVEMENTS TIMBER LAKES ESTATES 2nd & 3rd ADDITIONS			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS WICHITA, KANSAS			
Designed by MOS		Drawn 7/24/88	



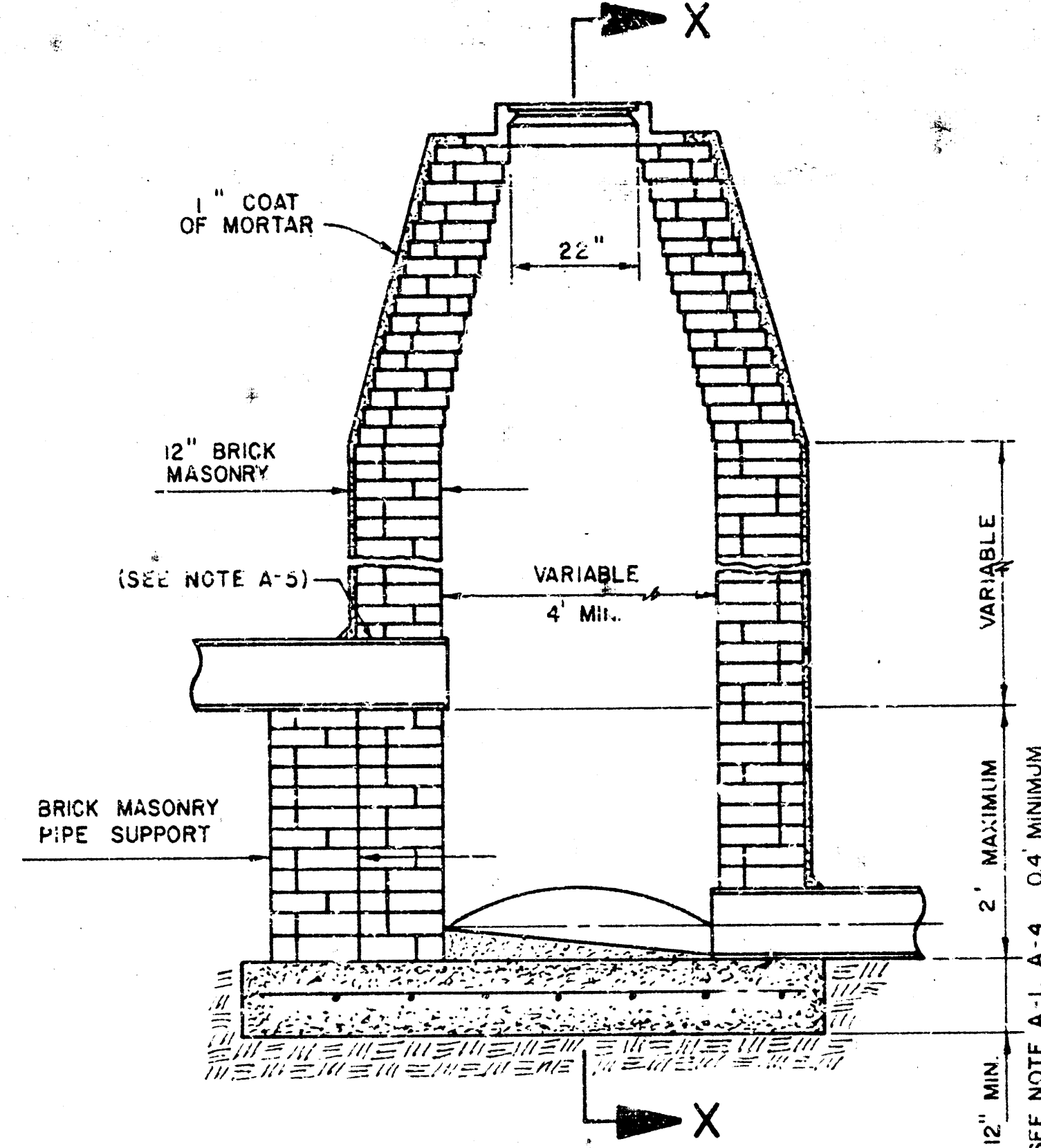
STANDARD MANHOLE
TYPE A



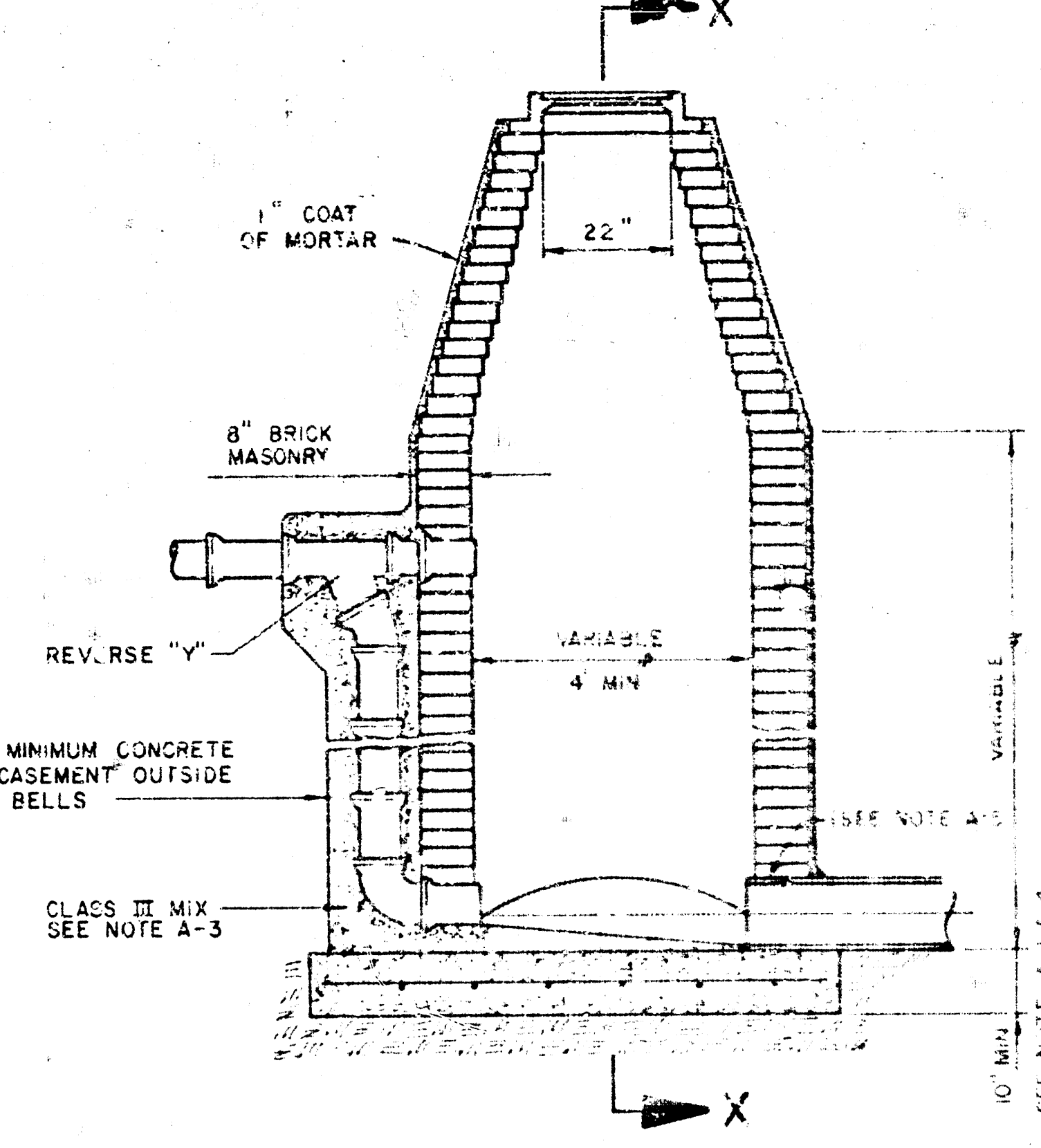
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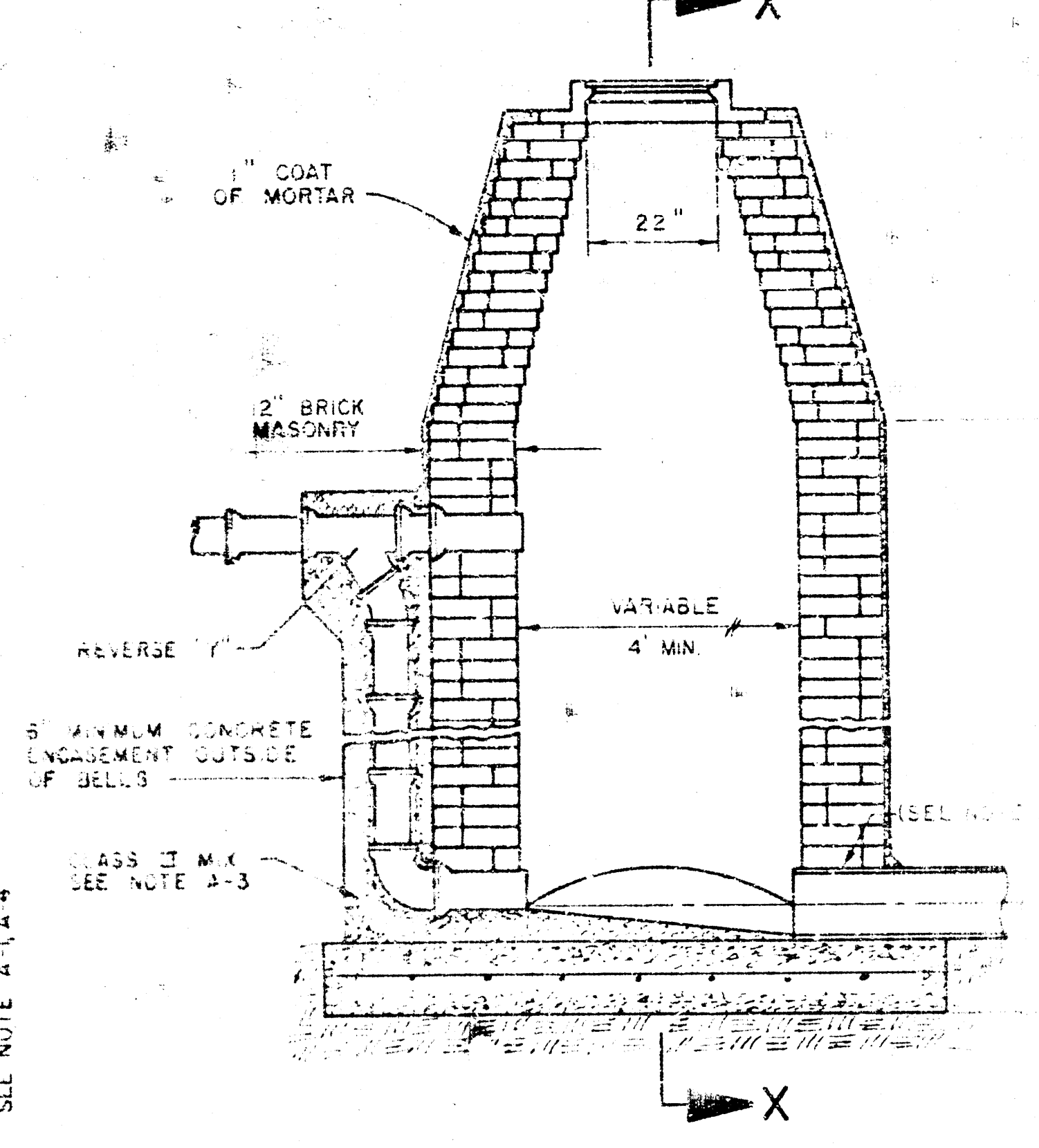
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TYPE B



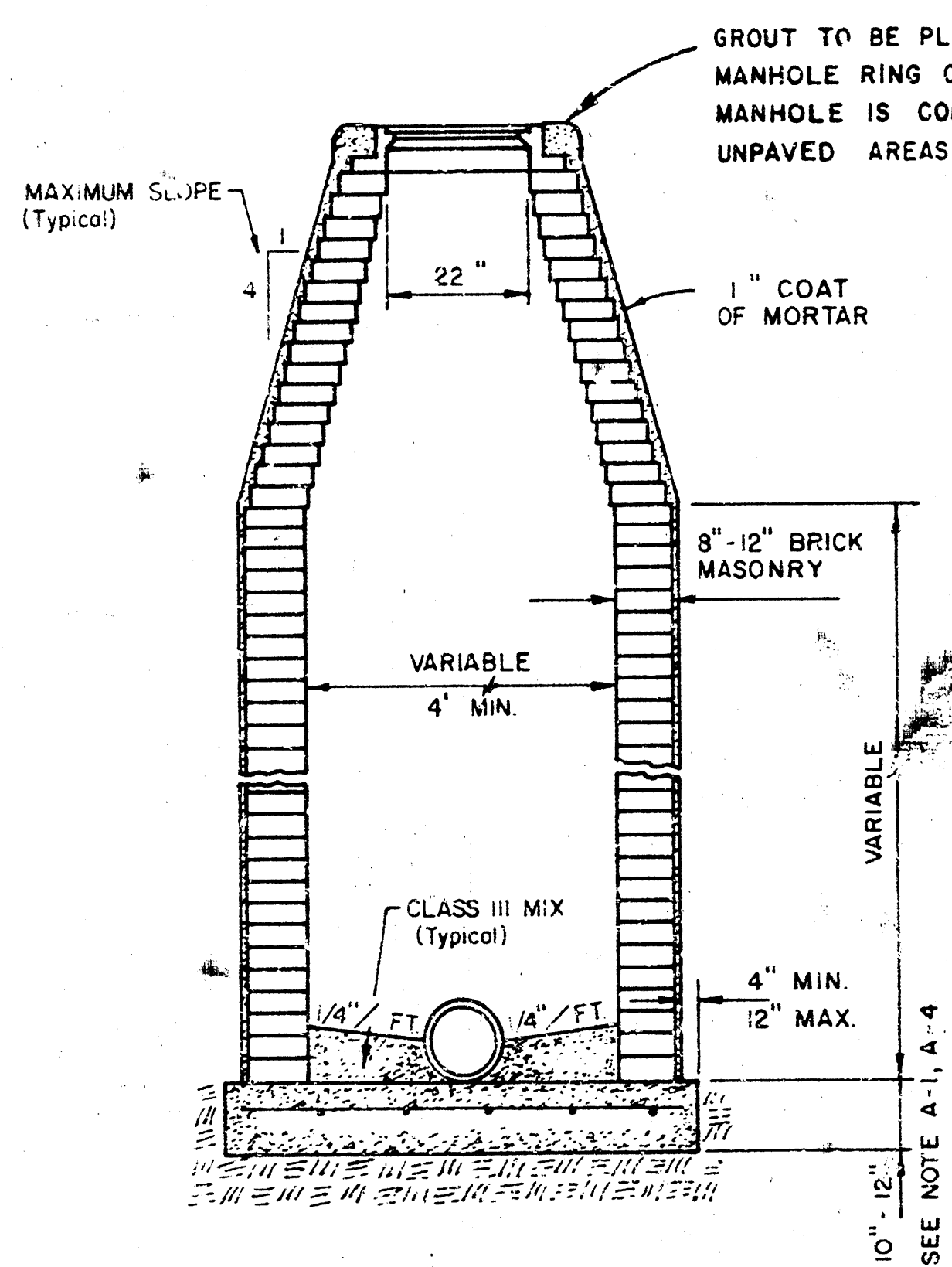
DROP MANHOLE
TYPE BB



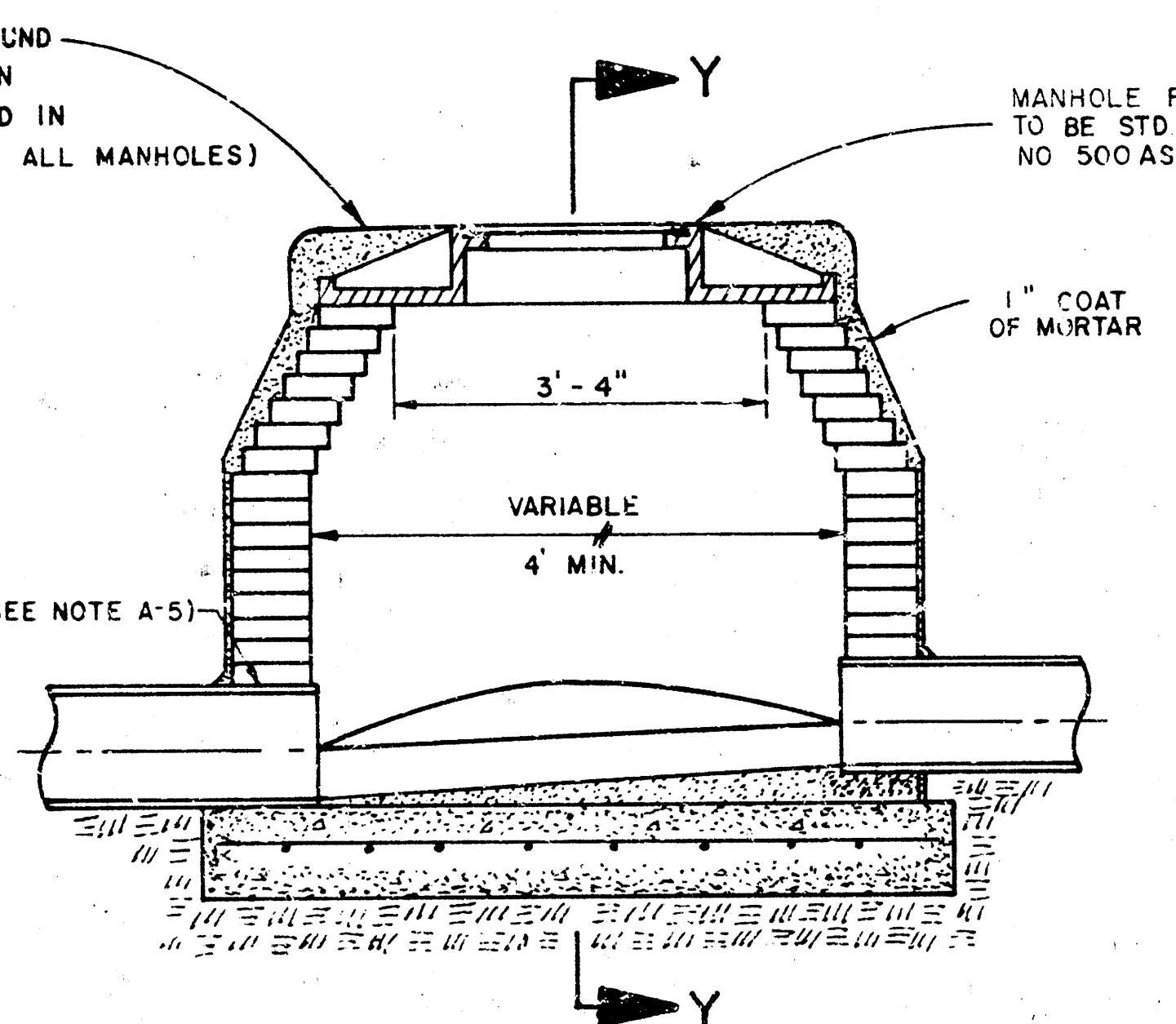
OUTSIDE DROP MANHOLE
TYPE C



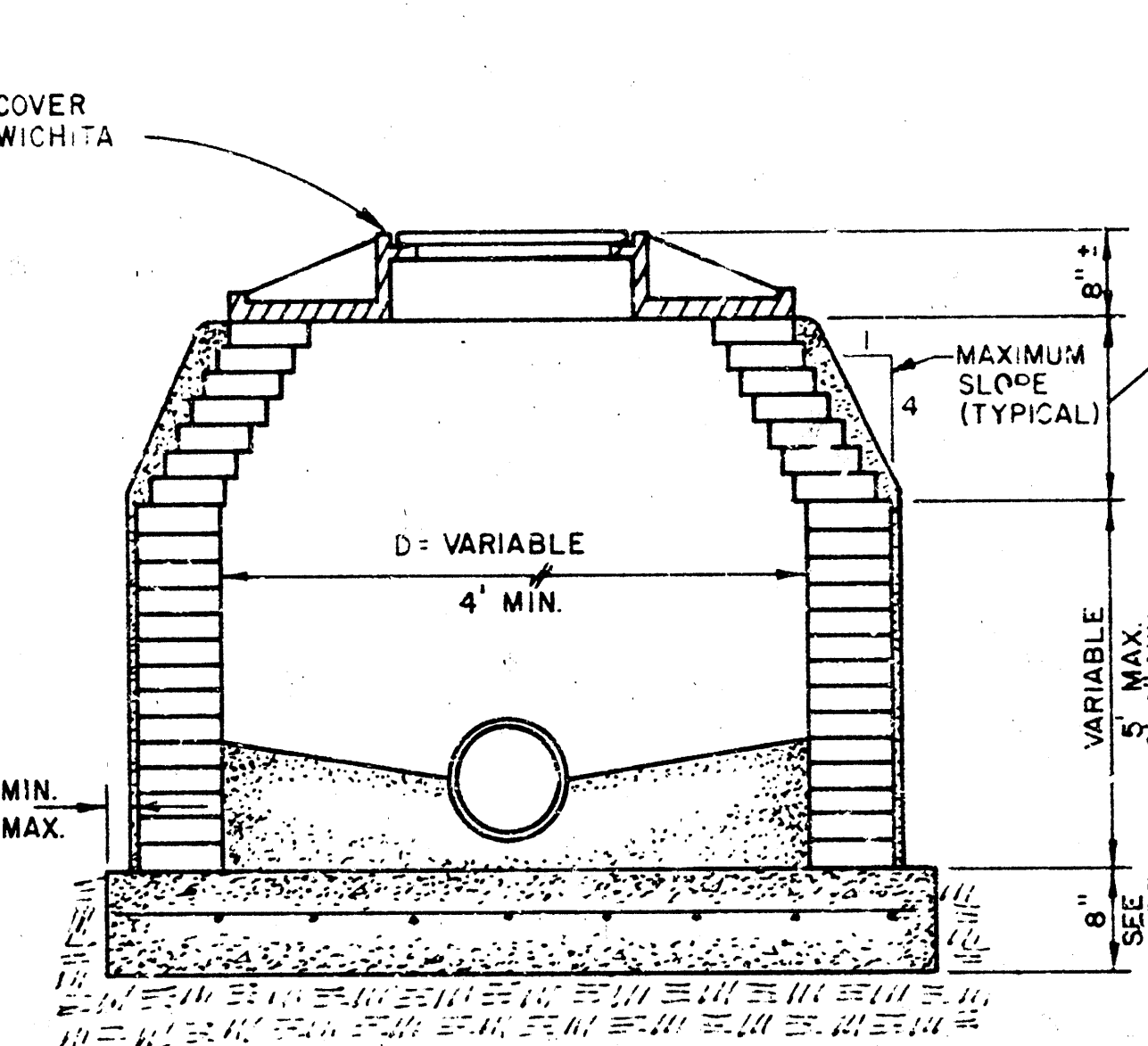
OUTSIDE DROP MANHOLE
TYPE CC



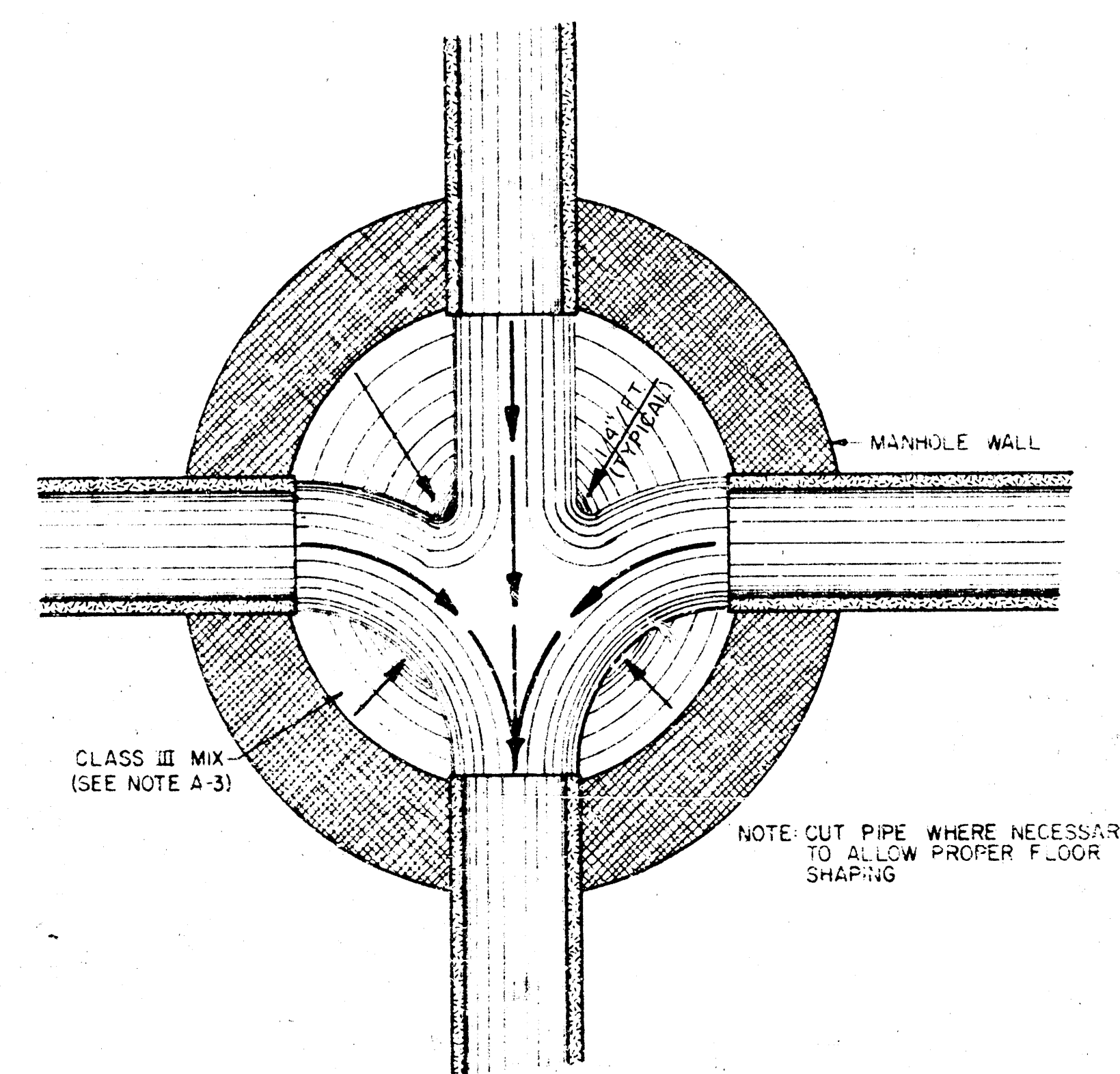
SECTION X



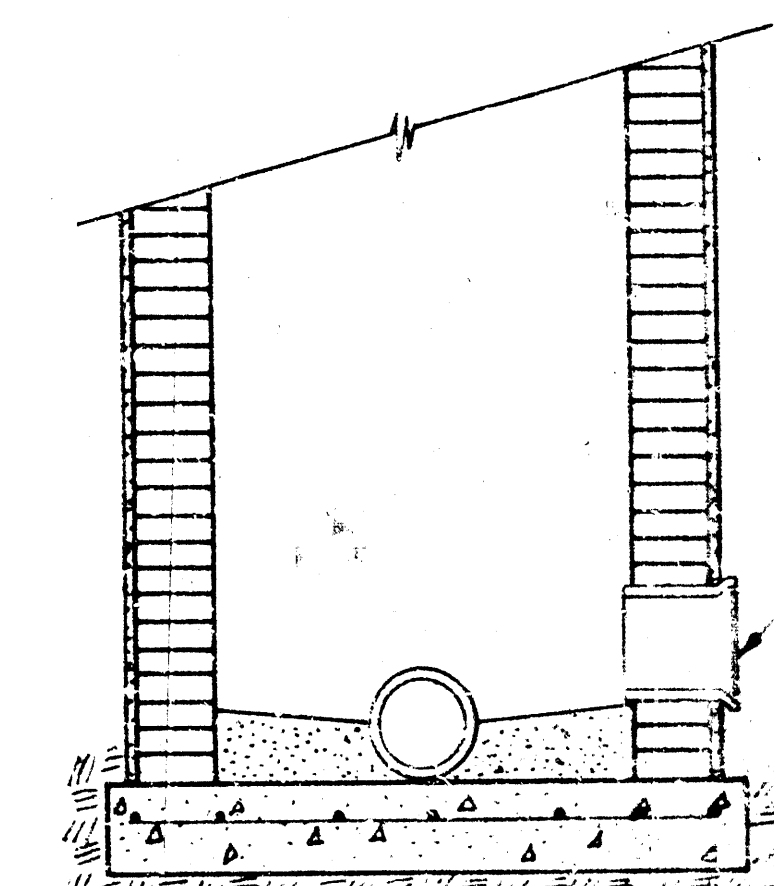
SHALLOW MANHOLE
TYPE D



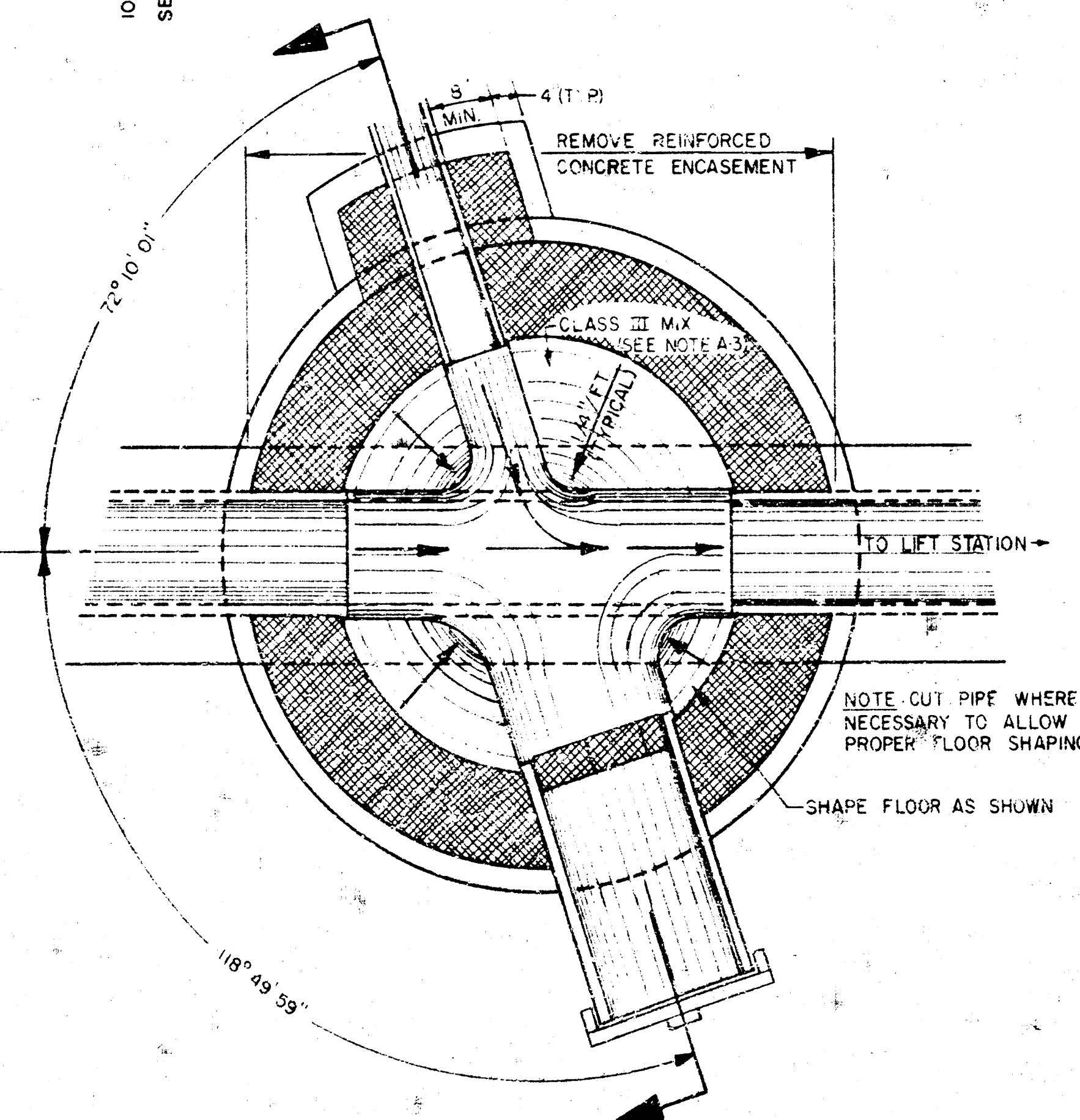
SECTION Y



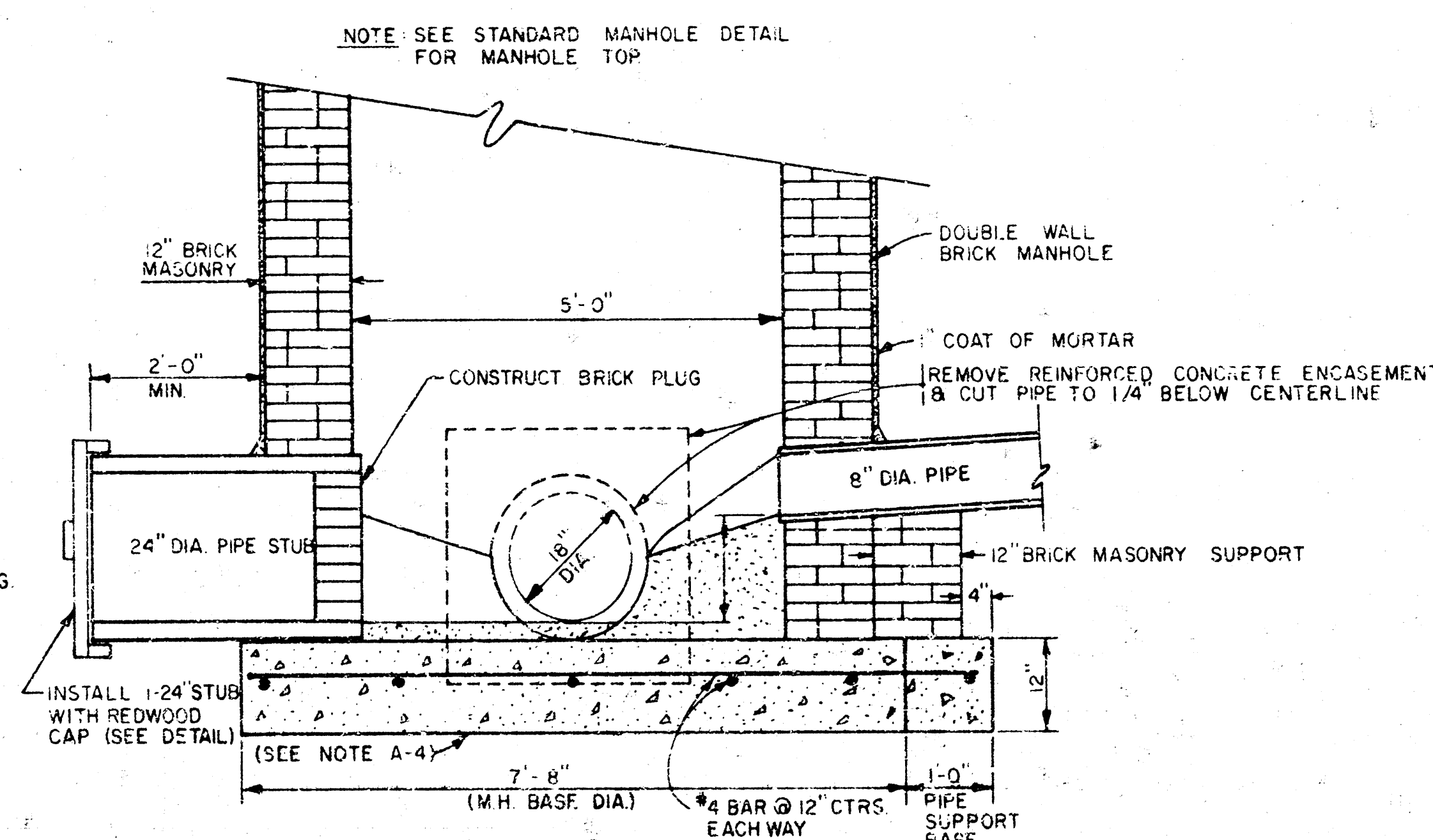
TYPICAL MANHOLE
FLOOR SHAPING



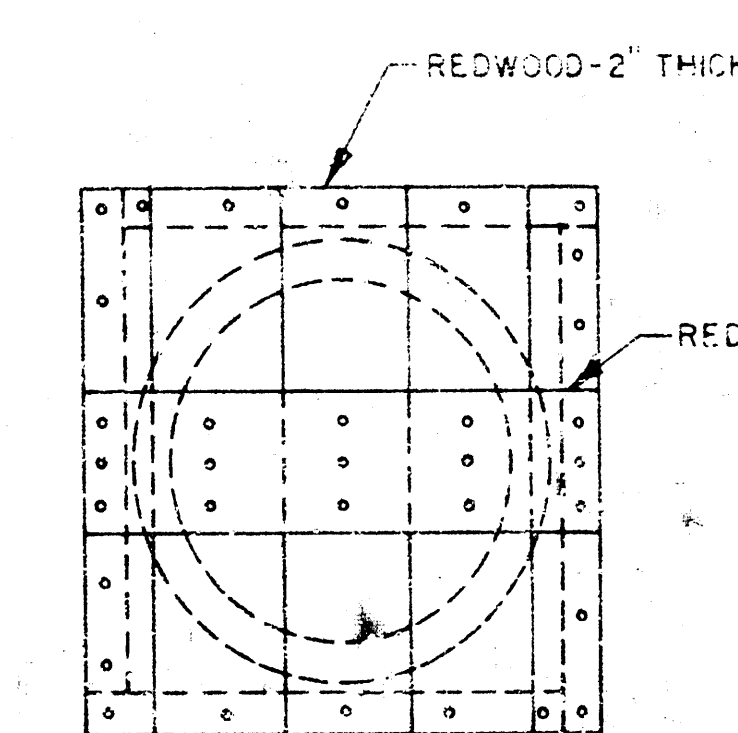
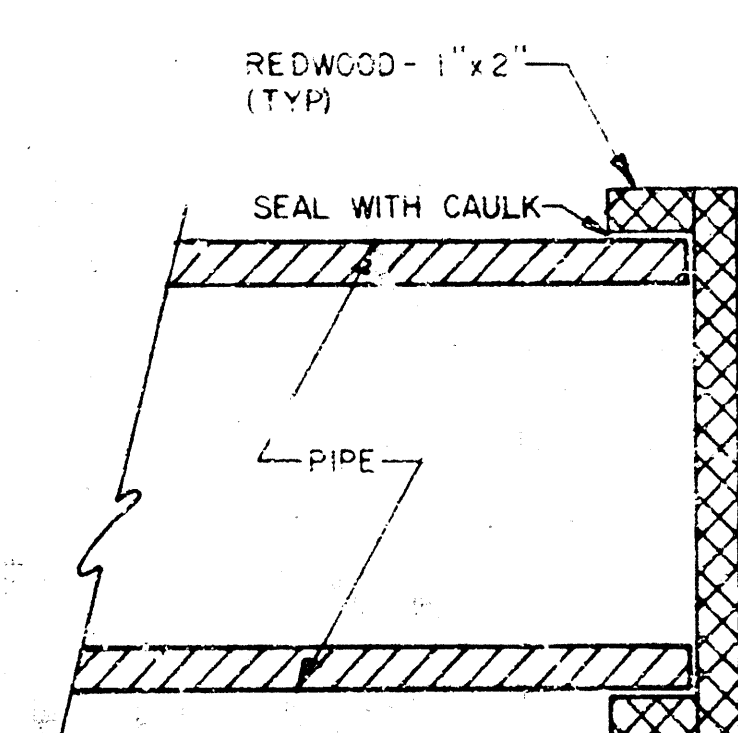
STUB DETAIL



SPECIAL MANHOLE
FLOOR SHAPING



SPECIAL MANHOLE
SECTION



REDWOOD CAP DETAIL

NOTE: CONSTRUCT CAP TO FIT SNUGLY AROUND PIPE

1. THE DESIGN OF THE ENGINEER SHALL BE BASED ON THE DATA FURNISHED BY THE OWNER. THE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE MANHOLE AND THE STRUCTURE OF THE MANHOLE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER.

2. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER.

3. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER.

4. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER.

No.	Revision	By	Date
1			

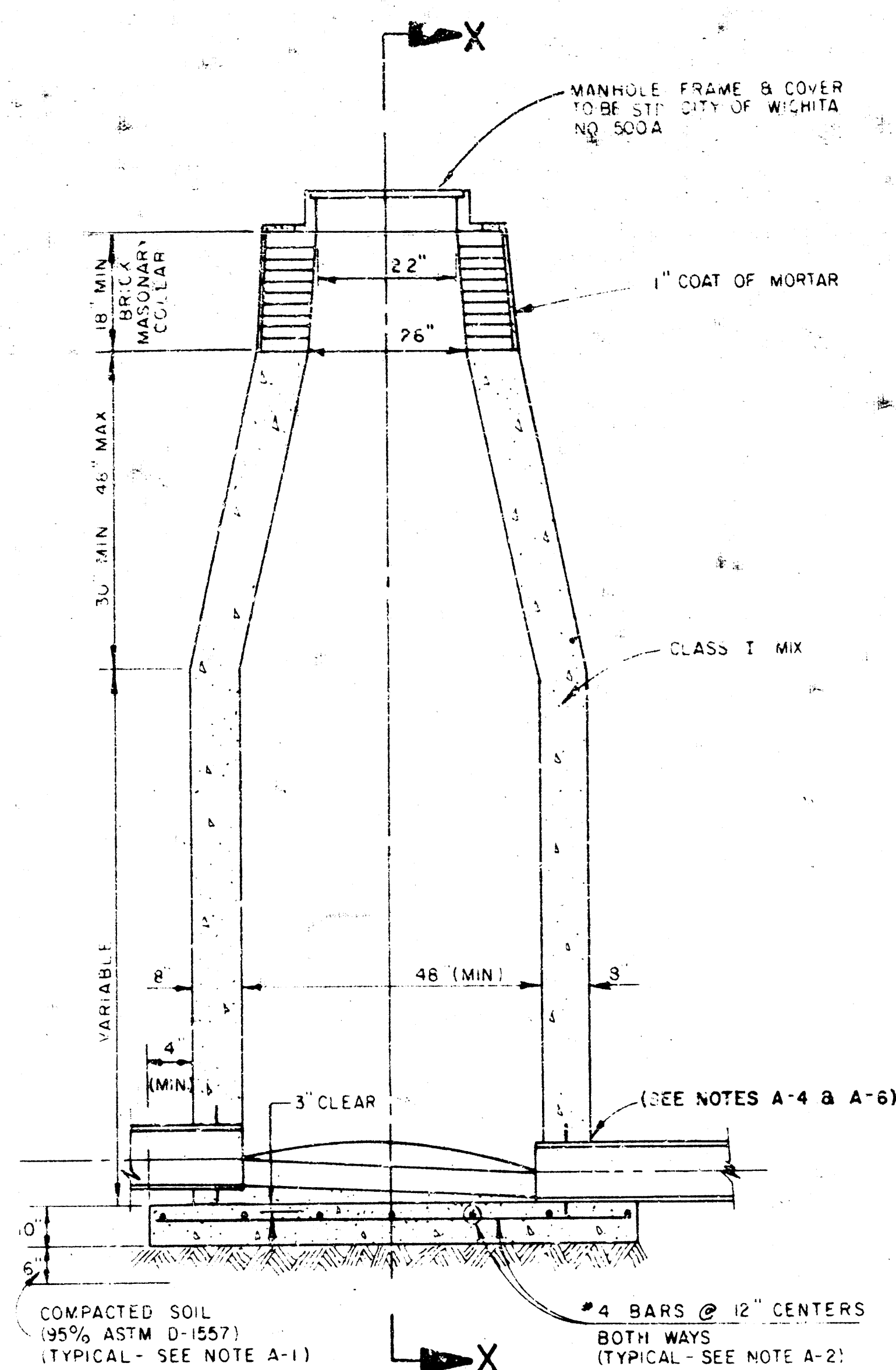
SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS
G. C. MCLURE, JR., P.E. DIRECTOR & COUNTY ENGINEER

SANITARY SEWER DETAILS

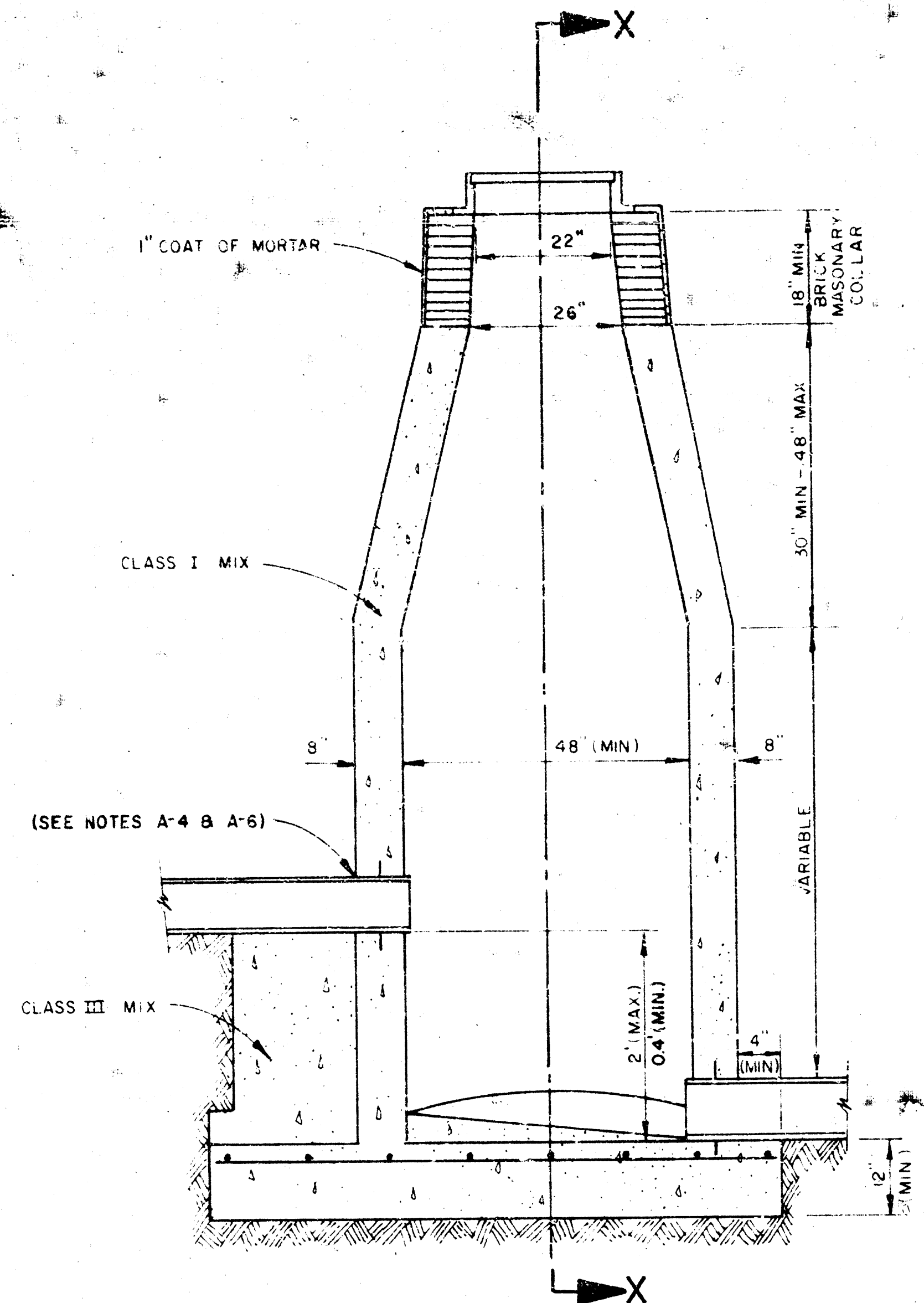
SANITARY SEWER IMPROVEMENTS
TIMBER LAKES ESTATES 2nd & 3rd ADDITIONS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

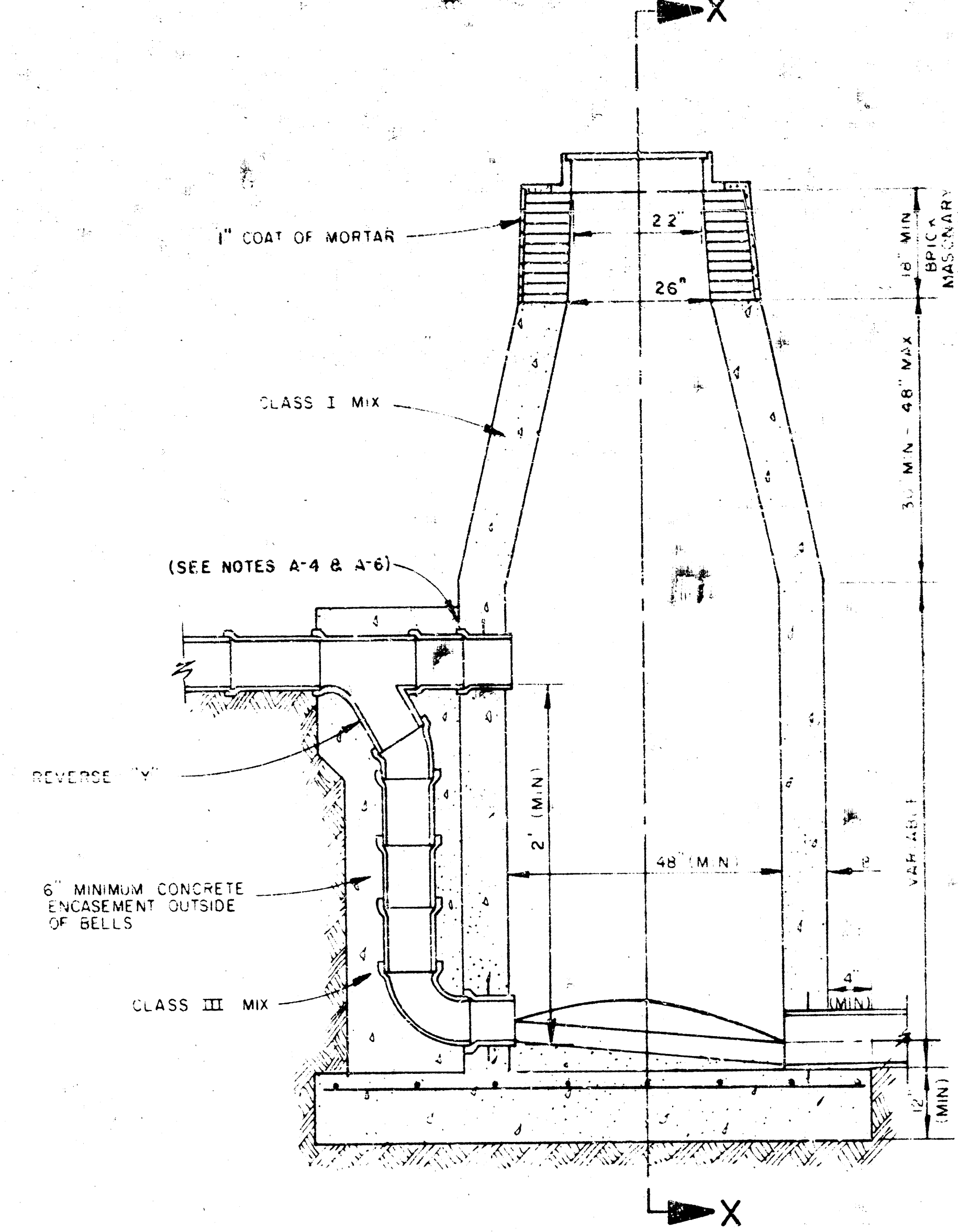
ENGINEERS
WICHITA, KANSAS



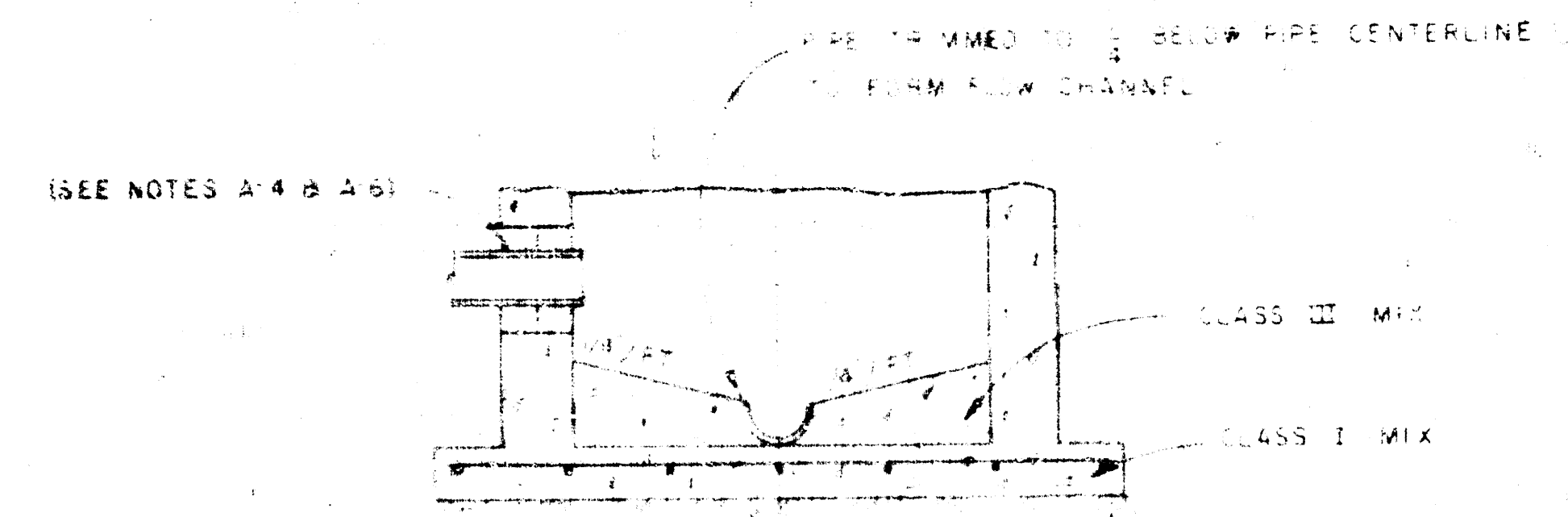
CAST IN PLACE
STANDARD MANHOLE
TYPE "E-A"



CAST IN PLACE
DROP MANHOLE
TYPE "E-B"



CAST IN PLACE
OUTSIDE DROP MANHOLE
TYPE "E-C"



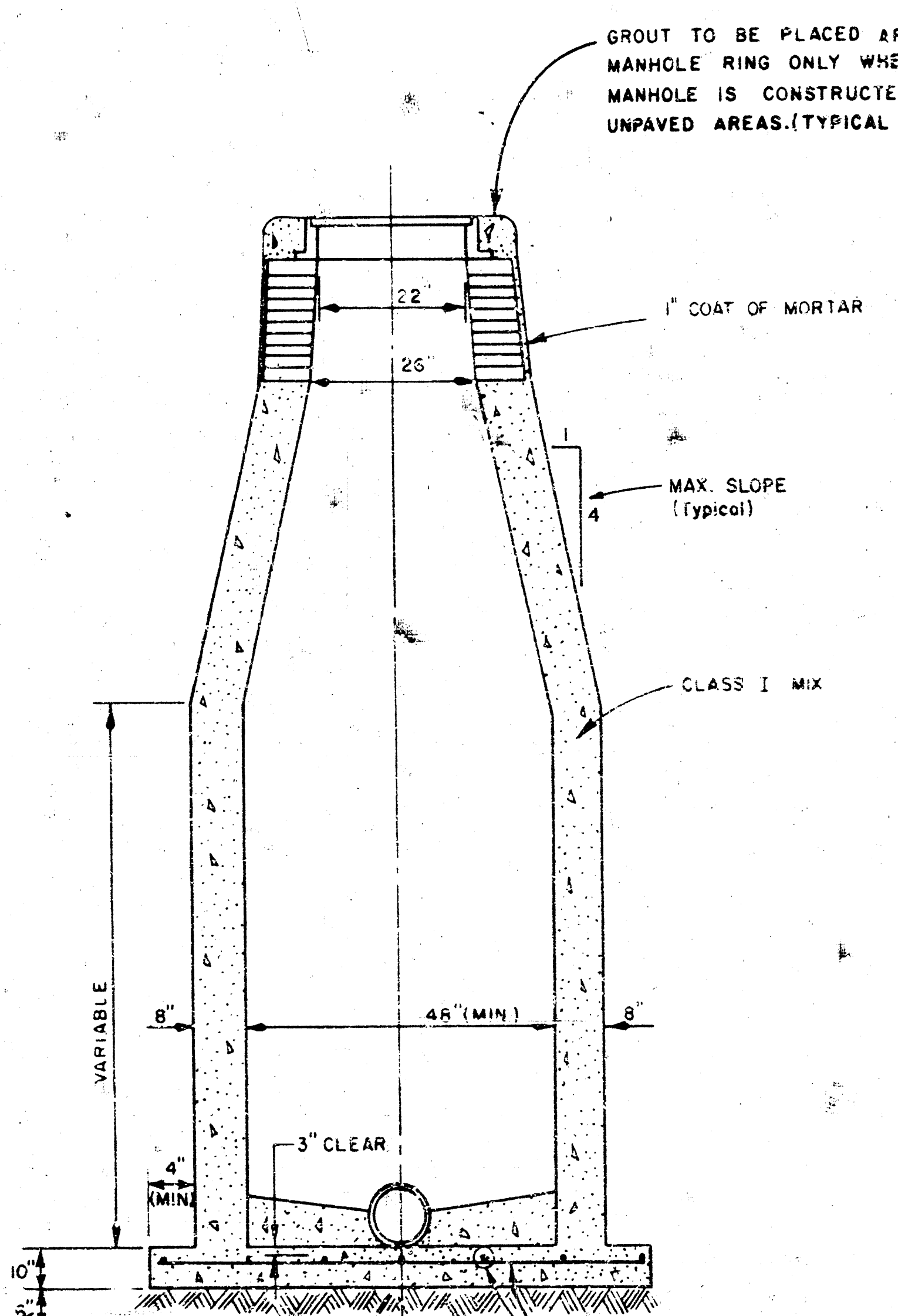
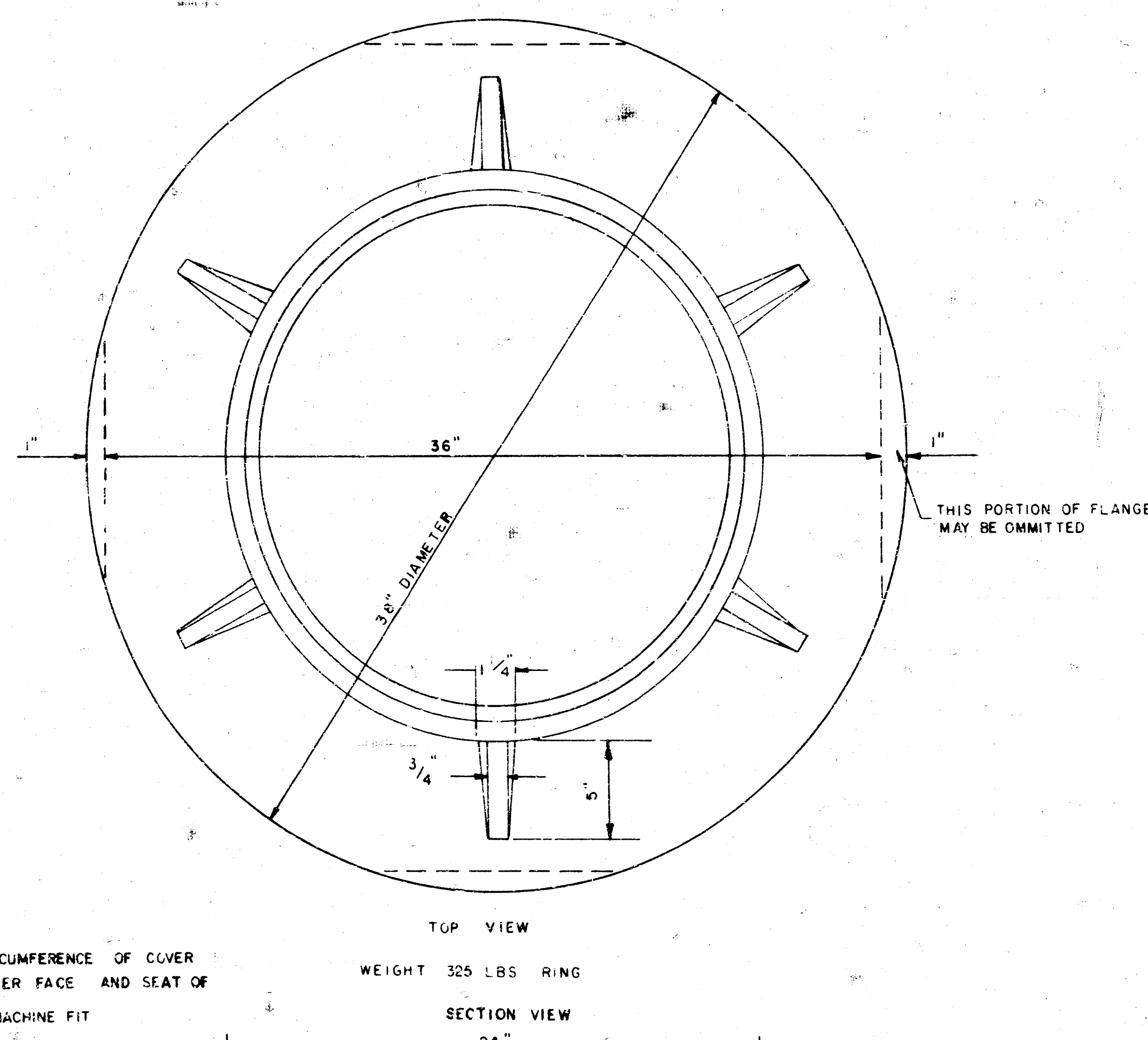
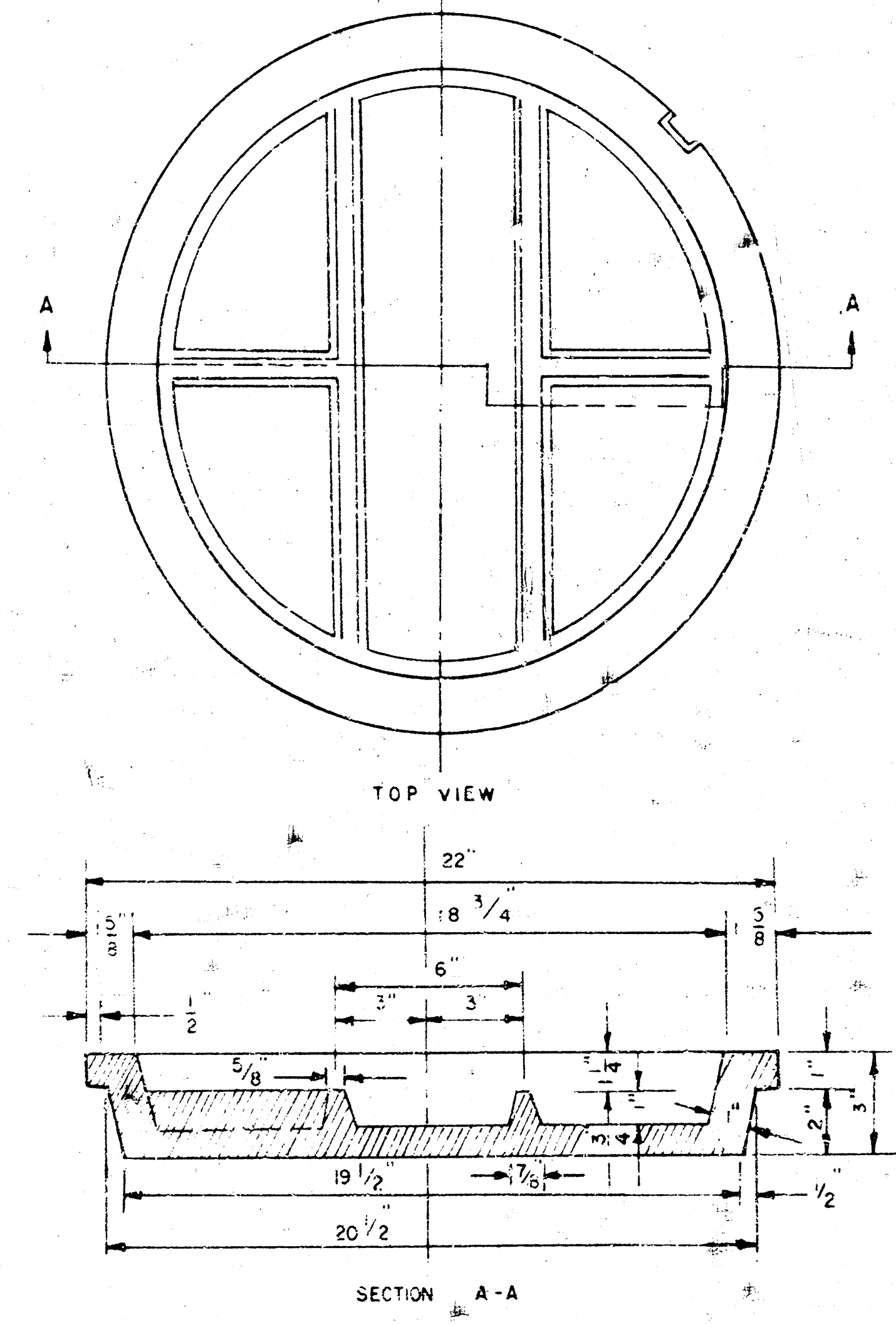
SECTIONAL ELEVATION-INVERT

PRECAST MANHOLES

PRECAST MANHOLES MAY BE SUBSTITUTED FOR THE 8" THICK CAST-IN-PLACE MANHOLES. THE MANHOLE BASE AND OUTSIDE MANHOLE PIPE SUPPORTS FOR PRECAST MANHOLES WILL BE THE SAME AS SHOWN FOR CAST-IN-PLACE MANHOLES.

NOTES

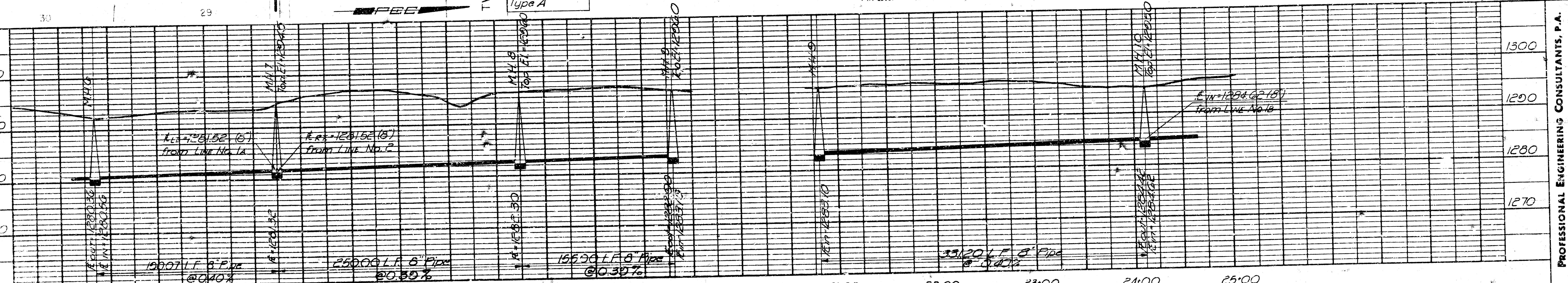
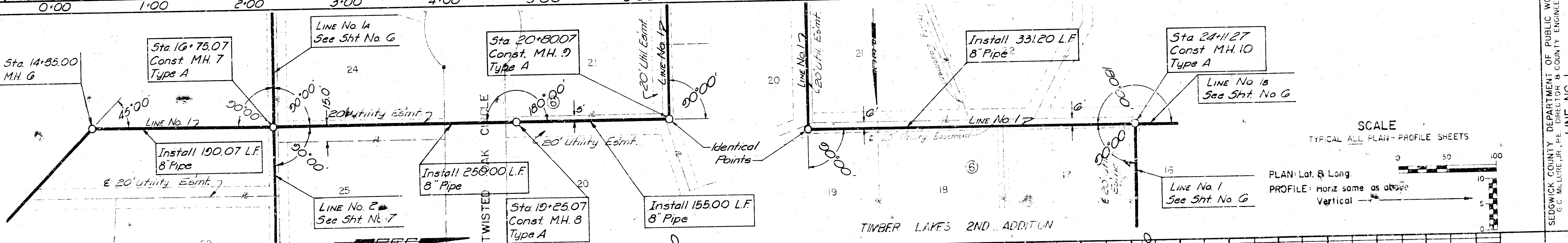
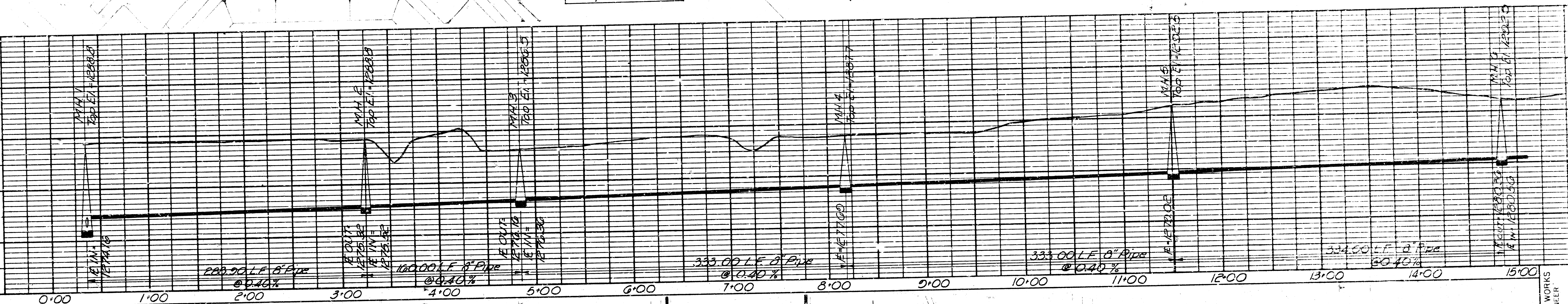
1. IF IN THE OPINION OF THE ENGINEER THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR HAS THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING IS REQUIRED IN ALL MANHOLE BASES.
3. MORTAR USED IN MASONRY CONSTRUCTION TO BE CLASS III MIX.
4. WHEN OPENINGS ARE CUT IN MANHOLE WALL FOR PIPE, PIPE WILL BE SET IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.
5. CAST-IN-PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DEGRADATION DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.
6. WATERSTOP BASKETS SHALL BE INSTALLED IN MANHOLE WALLS WHEN A.B.S. COMPOSITE PIPE, POLYETHYLENE PIPE, OR P.V.C. PIPE IS USED.
7. PRECAST MANHOLES SHALL BE SET 4 INCHES INTO THE MANHOLE BASE.



SECTION X

STANDARD MANHOLES TYPE "E-A", "E-B", AND "E-C" MAY BE BID IN LIEU OF STANDARD MANHOLES "A and AA", "B and BB", AND "C and CC", RESPECTIVELY.

No.	Revision	By	Date
SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS G. C. McLURE, JR., RE. DIRECTOR & COUNTY ENGINEER SANITARY SEWER DETAILS SANITARY SEWER IMPROVEMENTS TIMBER LAKES ESTATES, 2nd & 3rd ADDITIONS PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	M.D.S.	Job No.	76488
Drawn by		Date	JULY 1977



SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS
G. C. MCLURE, JR., P.E., DIRECTOR & COUNTY ENGINEER

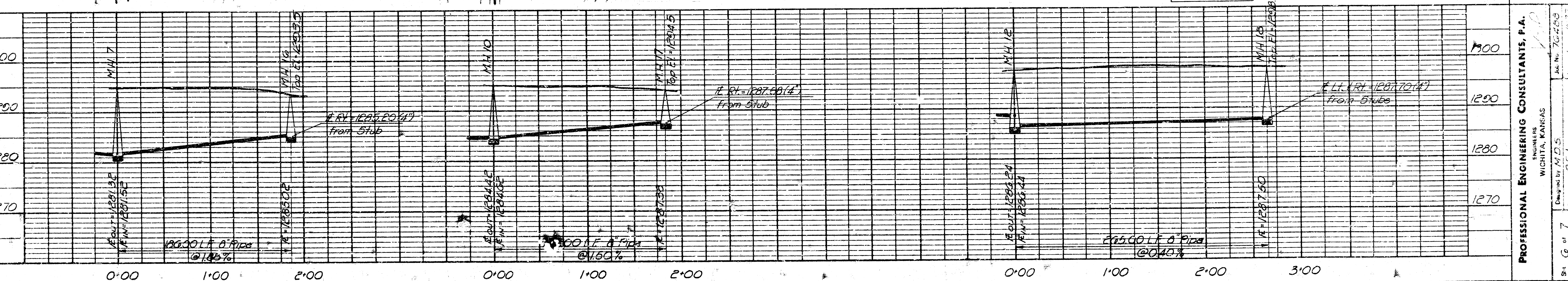
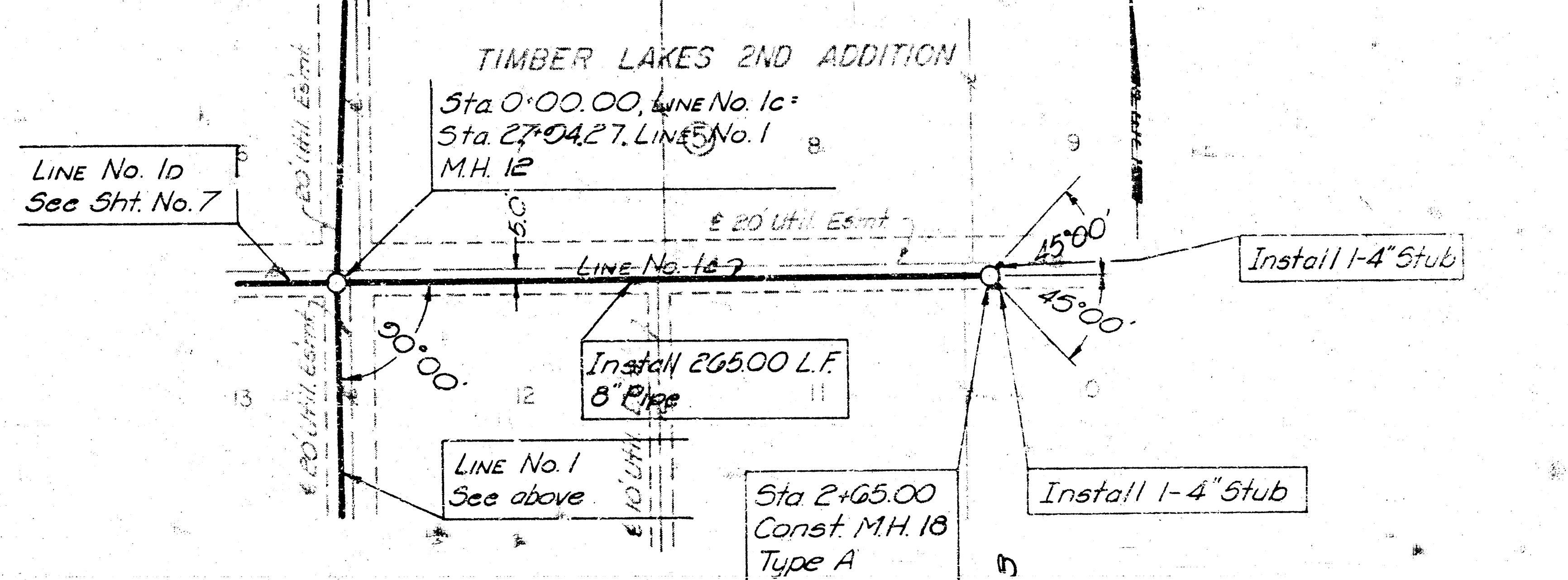
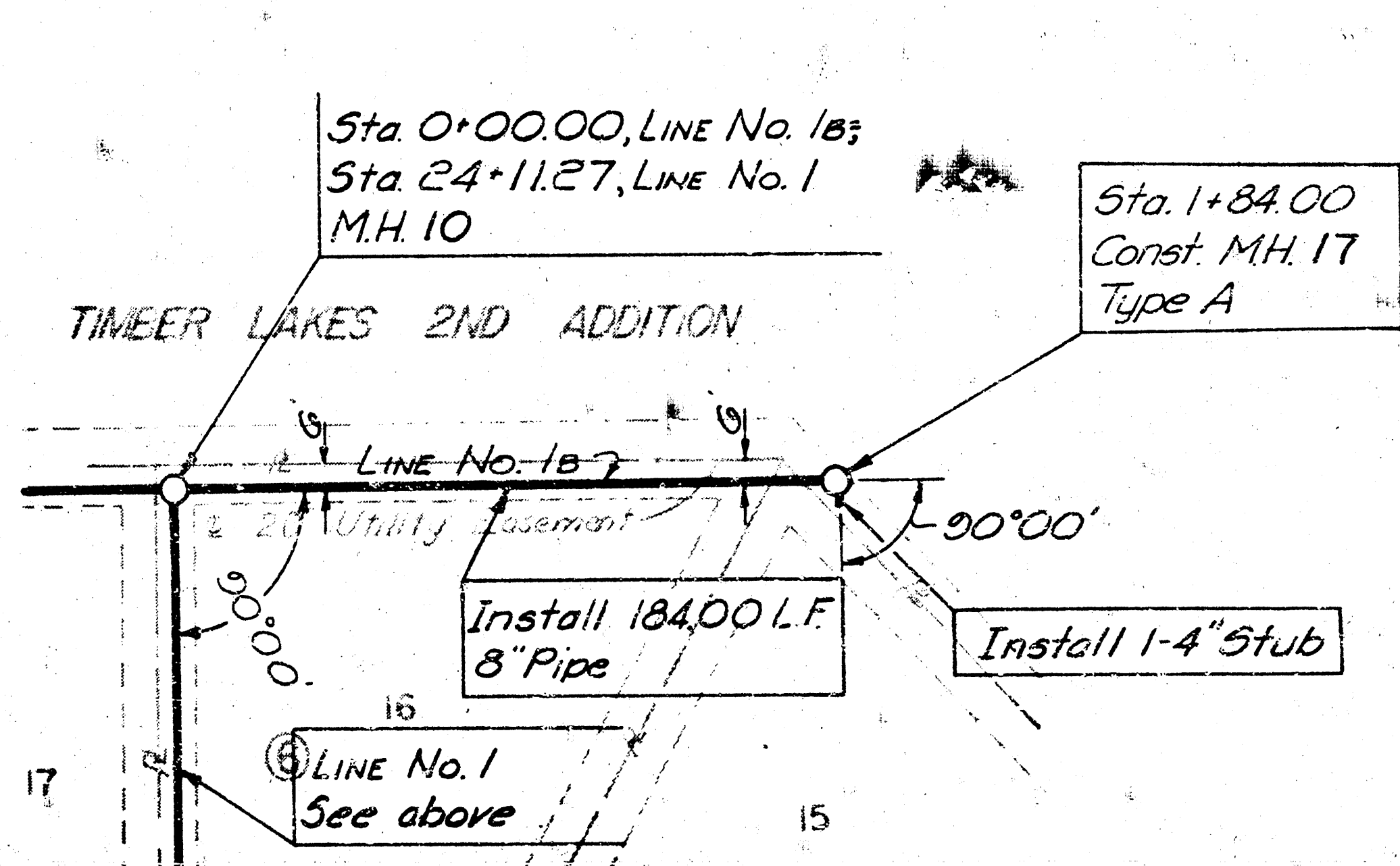
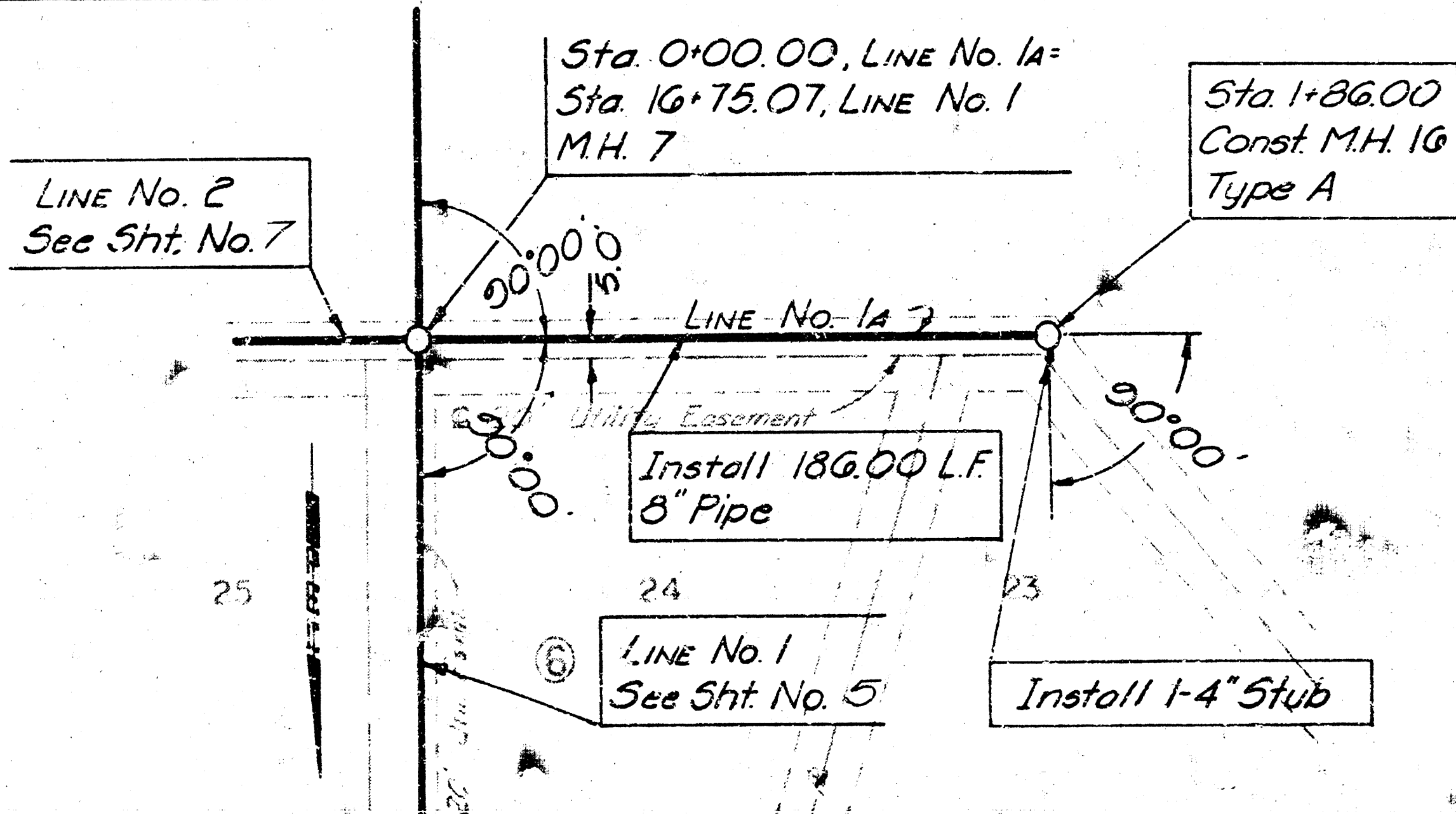
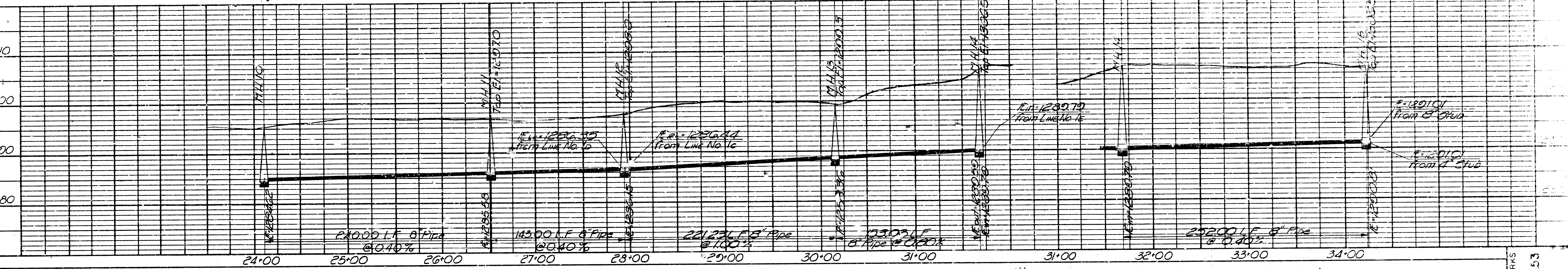
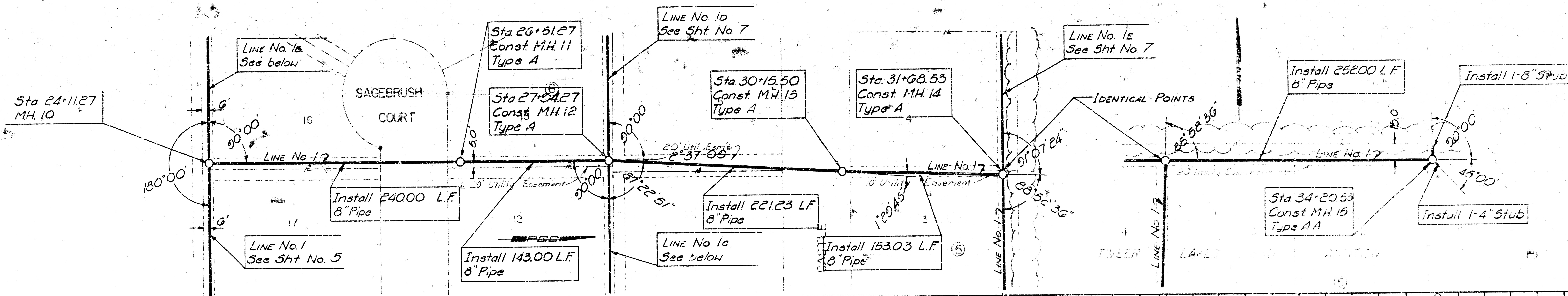
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

LINE NO. 1
STA. 0+36.10 TO STA. 24+11.27
SANDHILL SINK IMPROVEMENTS

ENGINEER'S
WICHITA, KANSAS

Designed by M.D.S.

Job No. 70-258



SEDGWICK COUNTY DEPARTMENT OF PUBLIC WORKS
 G.C. McLELLAN, JR., P.E., DIRECTOR & COUNTY ENGINEER
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 WICHITA, KANSAS
 ENGINEERS
 LINE NO. 1 STA 24+11.27 TO STA 34+20.53
 LINE NO'S 1A, 1B & 1C
 Drawn by M.D.S.
 Checked by R.T.J.
 Date 12-1-77
 Job No. 702459

