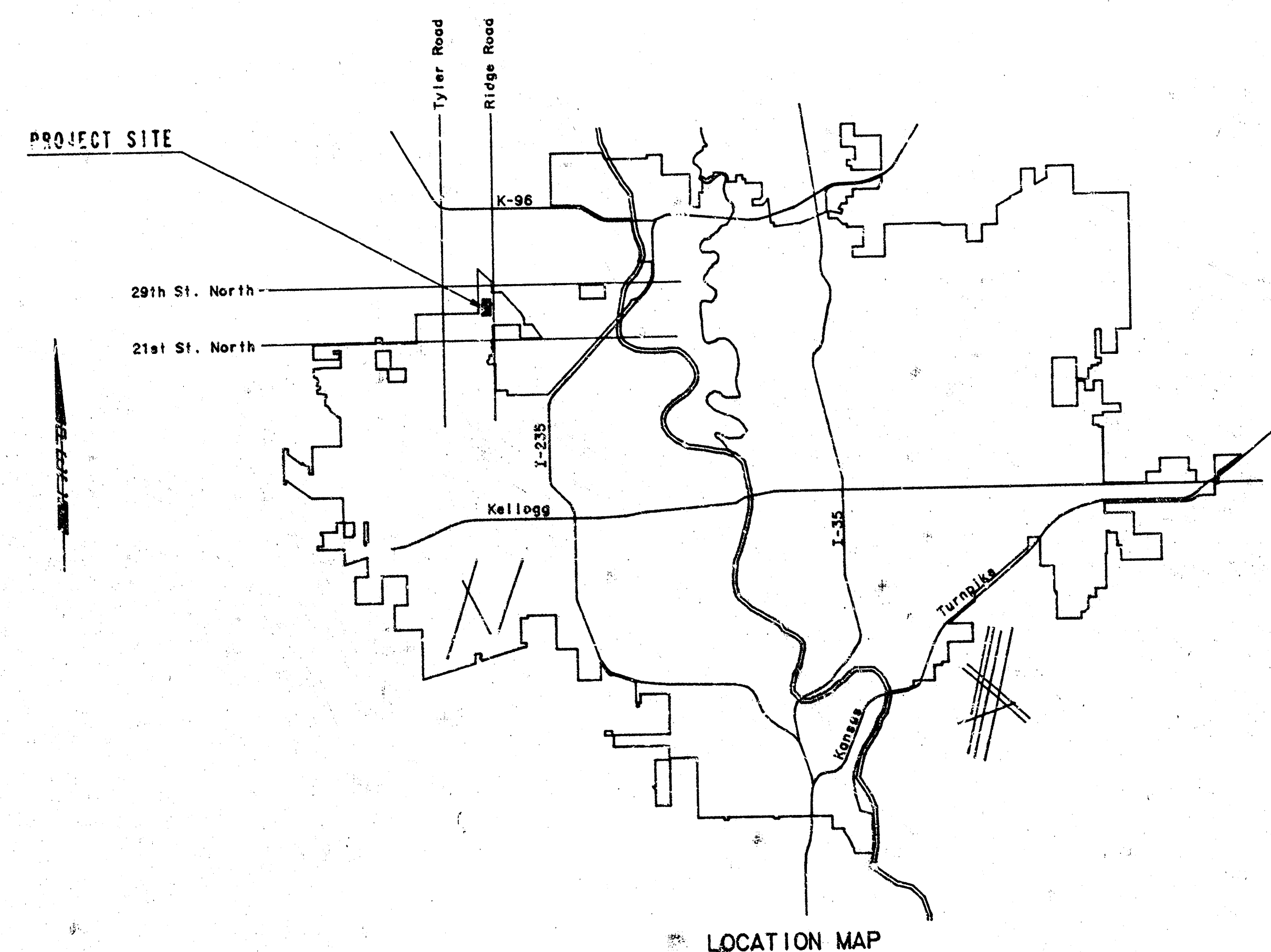


CONSTRUCTION PLANS FOR LIFT STATION AND FORCE MAIN

TO SERVE
LATERAL 21 AND 22, MAIN 15 OF THE
SOUTHWEST INTERCEPTOR SEWER

THE CITY OF WICHITA,
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER



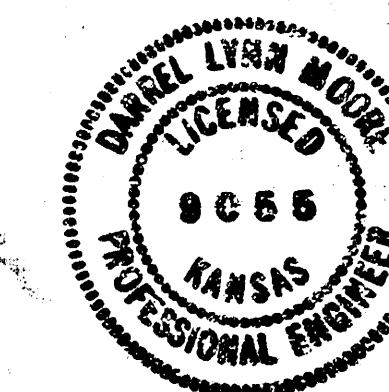
INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	KEY MAP AND GENERAL NOTES
SHEET NO. 3	PLAN
SHEET NO. 4	PLAN/PROFILE
SHEET NO. 5	SITE PLAN & DETAILS
SHEET NO. 6	TYPE & MH DETAILS

INDEX CODE 740712
CITY OF WICHITA PROJECT NO. 468-76-245-82097-000

MAY, 1991

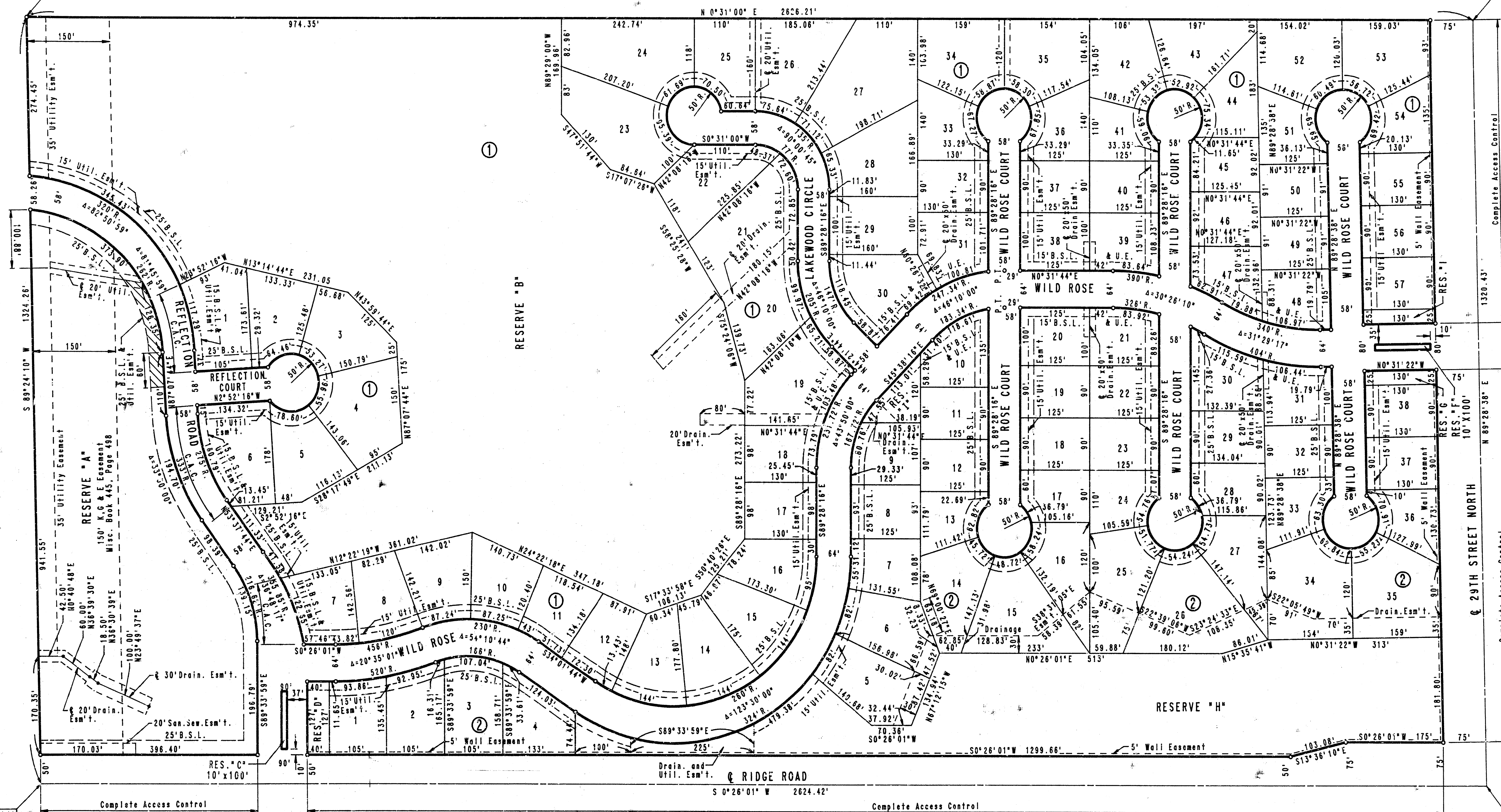
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



REFLECTION RIDGE 6TH ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

S.W. COR. E. 1/2, N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

N.W. COR. E. 1/2, N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

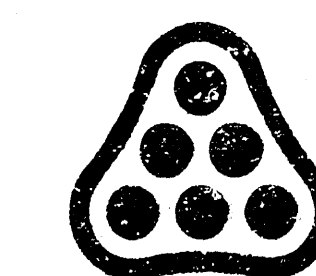


SCALE: 1"=100'
 ○ = IRON SET
 U.E. = UTILITY EASEMENT
 B.S.L. = BUILDING SETBACK LINE
 C.A.C. = COMPLETE ACCESS CONTROL
 B.W. - CHISELED "D" N.E. COR. 3-7' X 3' RIB
 BRIDGE ON RIDGE ROAD 175' NORTH OF
 S.E. COR. N.E. 1/4 SEC. 4, T27S, R1W
 ELEV. = 1325.64 M.S.L.
 ELEV. = 1325.52 CITY DATUM
 MINIMUM PAD ELEVATIONS (LOWEST OPENING)
 ALL LOTS = 1327.5 M.S.L.

S.E. COR. N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

N.E. COR. N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

DRAWING NAME: 34-91081-3 SS PLAT
 LOCATION: SW 10 04 DWG # 304
 CENTER COORDINATES
 DATE LAST WORKED ON: FEB 23, 1991
 SPECIAL INSTRUCTIONS:



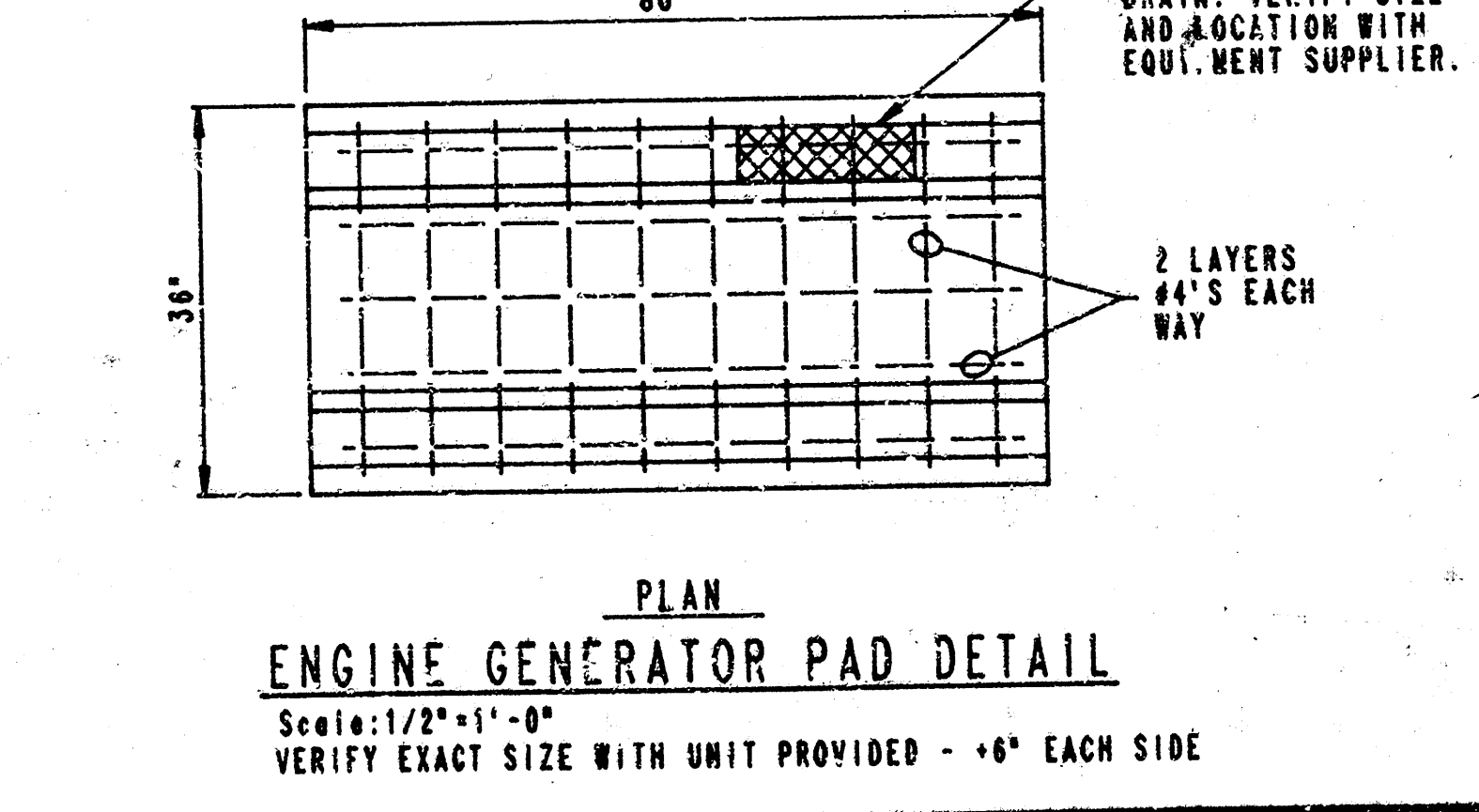
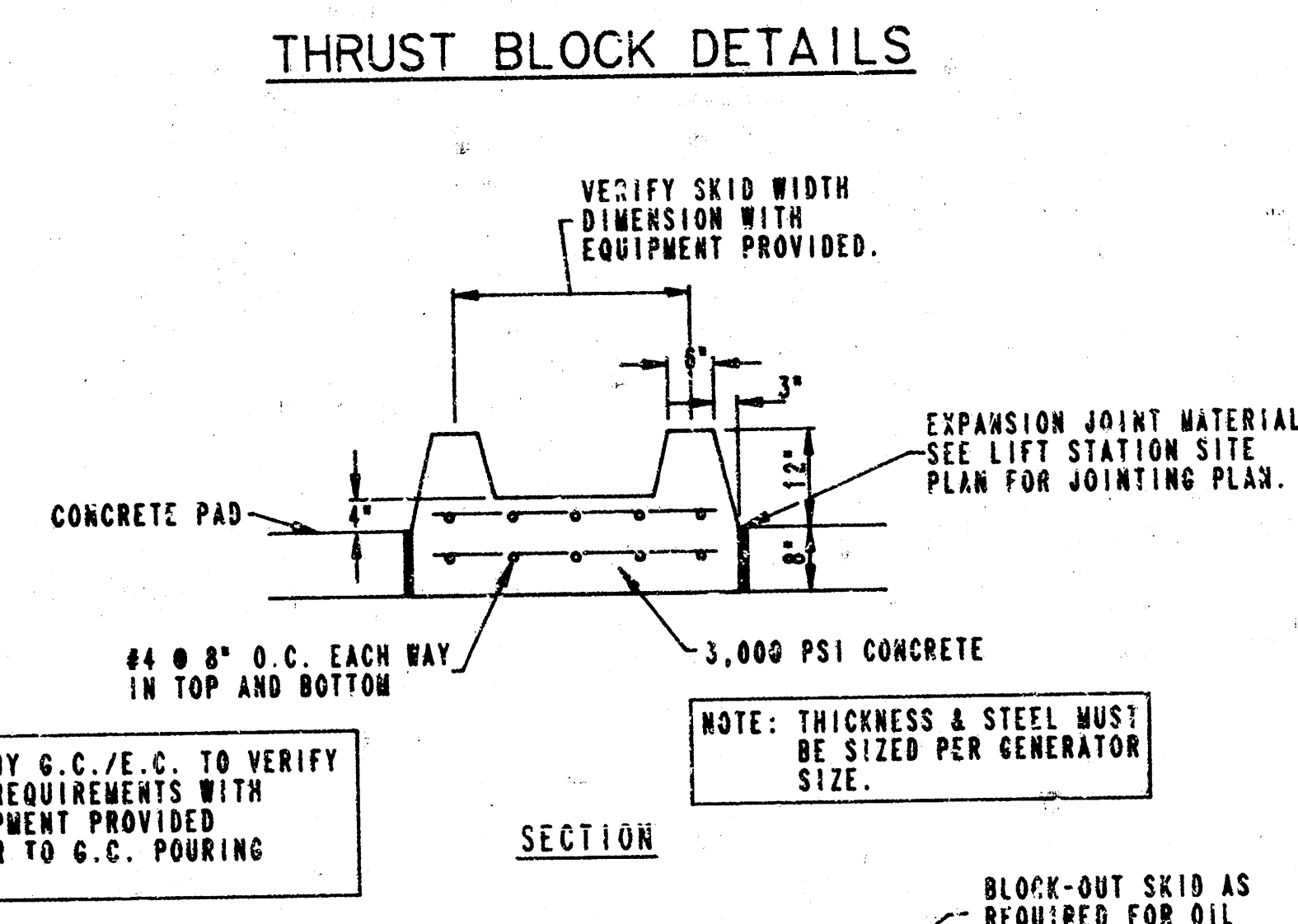
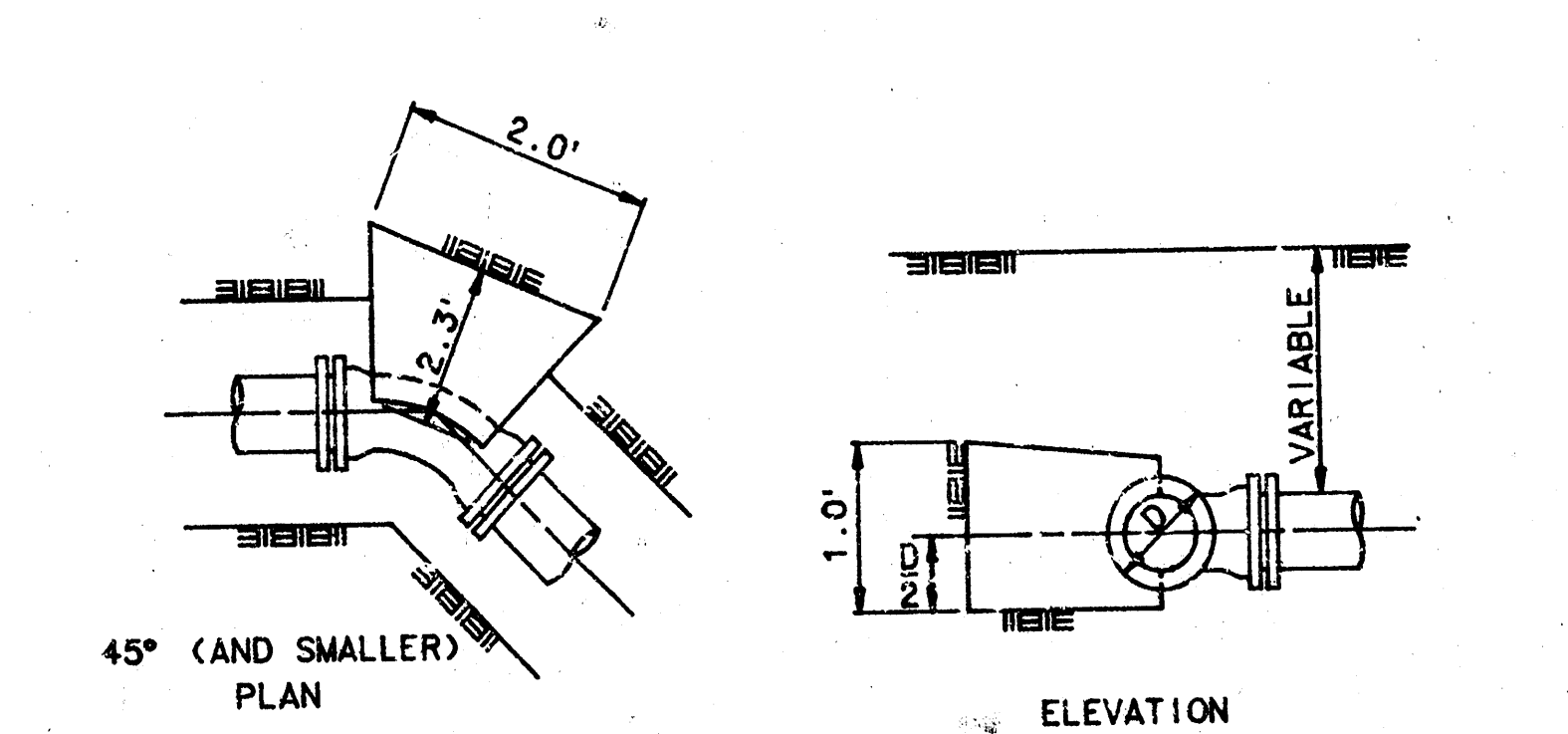
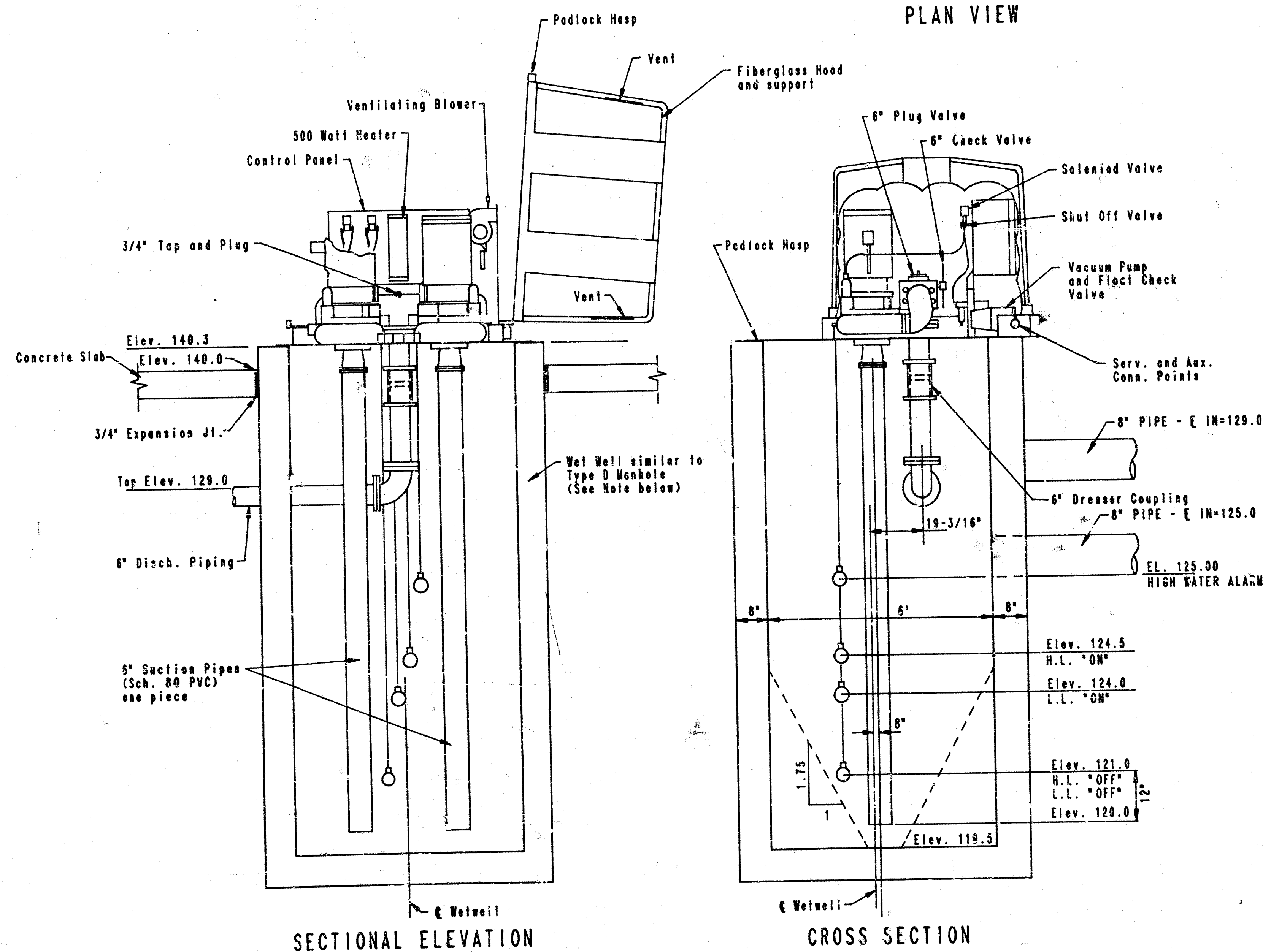
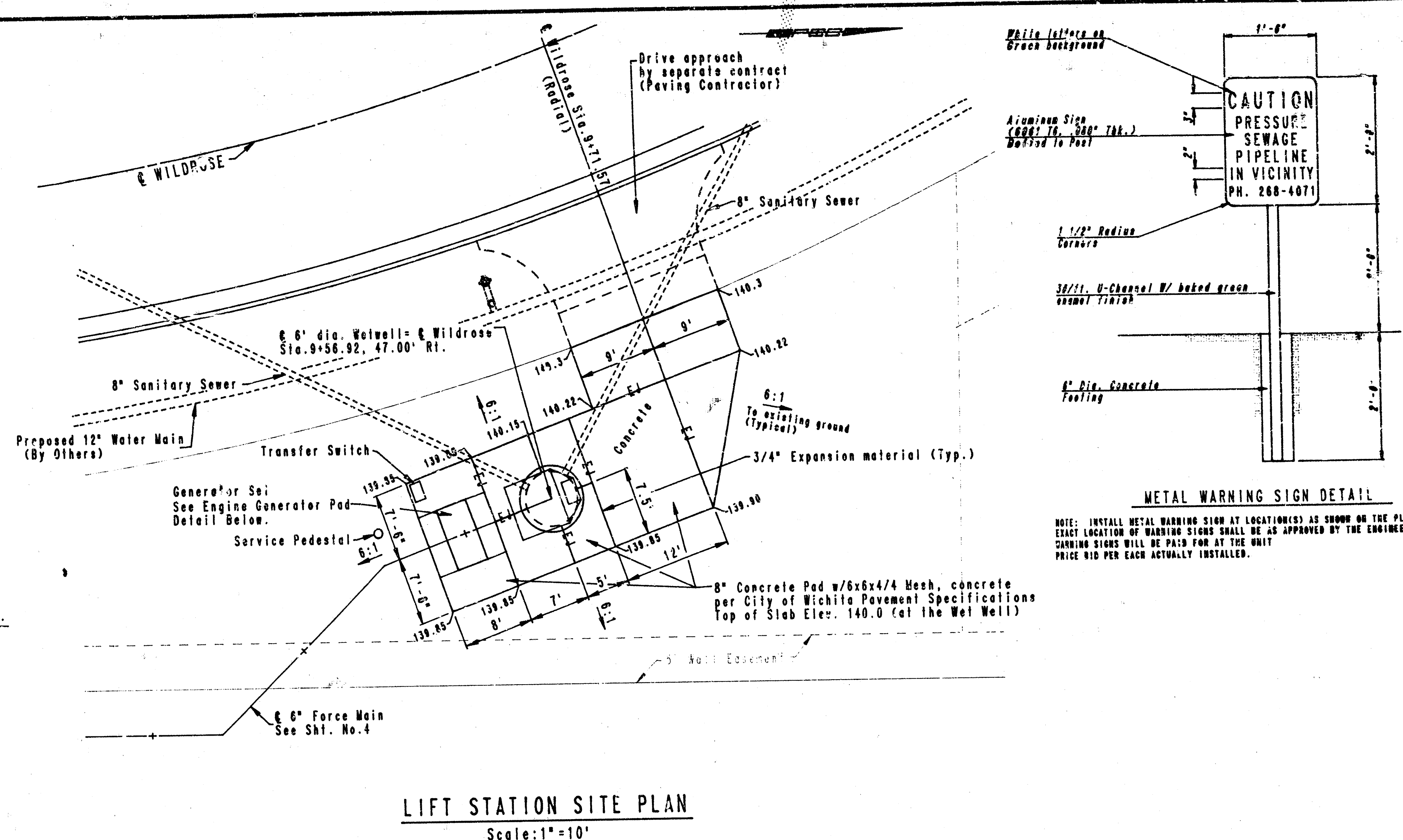
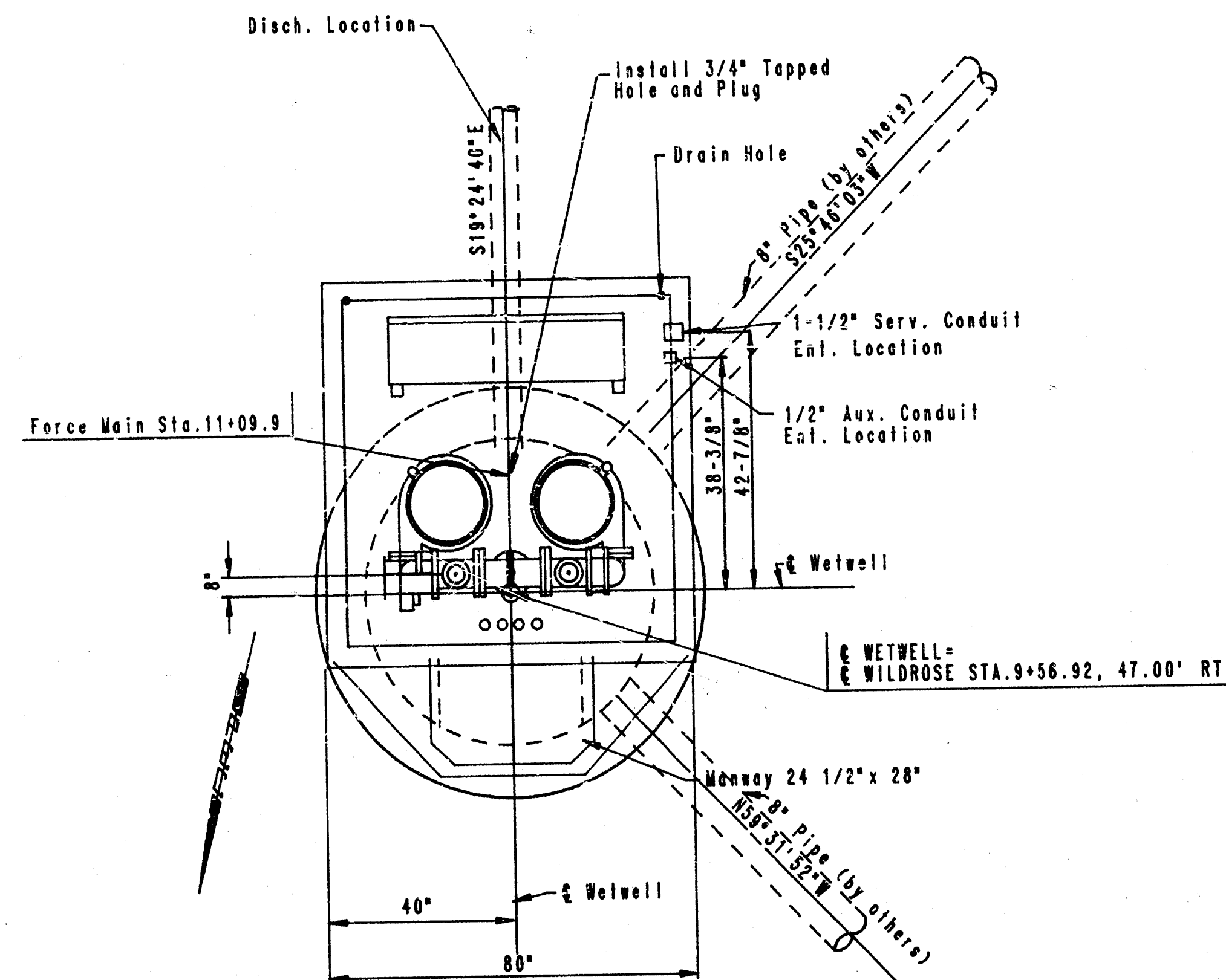
No.	Revision	By	Date
	LATERAL 21 AND LATERAL 22, MAIN 15 OF THE SOUTHWEST INTERCEPTOR SEWER		
	PLAT		
	MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-78-245-82097-000-000		
	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS		
Designed by	Job No. 34-91081-3	Sht. 3 of 6	
Drawn by JDS	Date March, 1991		

PUMP	FLOW	TOT	MOTOR HP	IMPELLER DIA.	RPM	ELECT. SERV. REQ.	MOTOR CODE	PUMP EFFICIENCY
NO. 1 4928	250 gpm	16 ft	5 hp	7 inch	1170	208V, 60HZ, 3Ø, 4-Wire	H	82%
NO. 2 4928	250 gpm	16 ft	5 hp	7 inch	1170	208V, 60HZ, 3Ø, 4-Wire	H	82%

NOTES:

1. THE PRICE BID FOR FURNISHING AND INSTALLING THE WET WELL MOUNTED LIFT STATION WITH STANDBY EMERGENCY POWER AND MISCELLANEOUS APPURTENANCES COMPLETE IN PLACE SHALL INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING THE LIFT STATION AND STANDBY EMERGENCY POWER AS INDICATED IN THE PLANS. COMPLETE IN PLACE AND IN OPERATION. THIS PRICE SHALL INCLUDE THE COST OF CONSTRUCTING AND/OR INSTALLING COMPACTED SUBGRADE, CONCRETE PAD, POWER POLE, ELECTRICAL CONDUIT, ELECTRICAL WIRING, DISCONNECT SWITCH, PRIMARY AND SECONDARY ELECTRICAL POWER SUPPLY, NATURAL GAS FUEL SUPPLY, PIPING, FINISHED GRADING AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGEMENTS WITH THE GAS COMPANY FOR EXTENSION OF GAS SERVICE TO THE LIFT STATION SITE, AND FOR PAYMENT OF COSTS OF SUCH EXTENSION AND METER SETTING. LOCATION OF METER TO BE ACCEPTABLE TO GAS SERVICE COMPANY AND TO CITY OF WICHITA SEWER MAINTENANCE DIVISION.

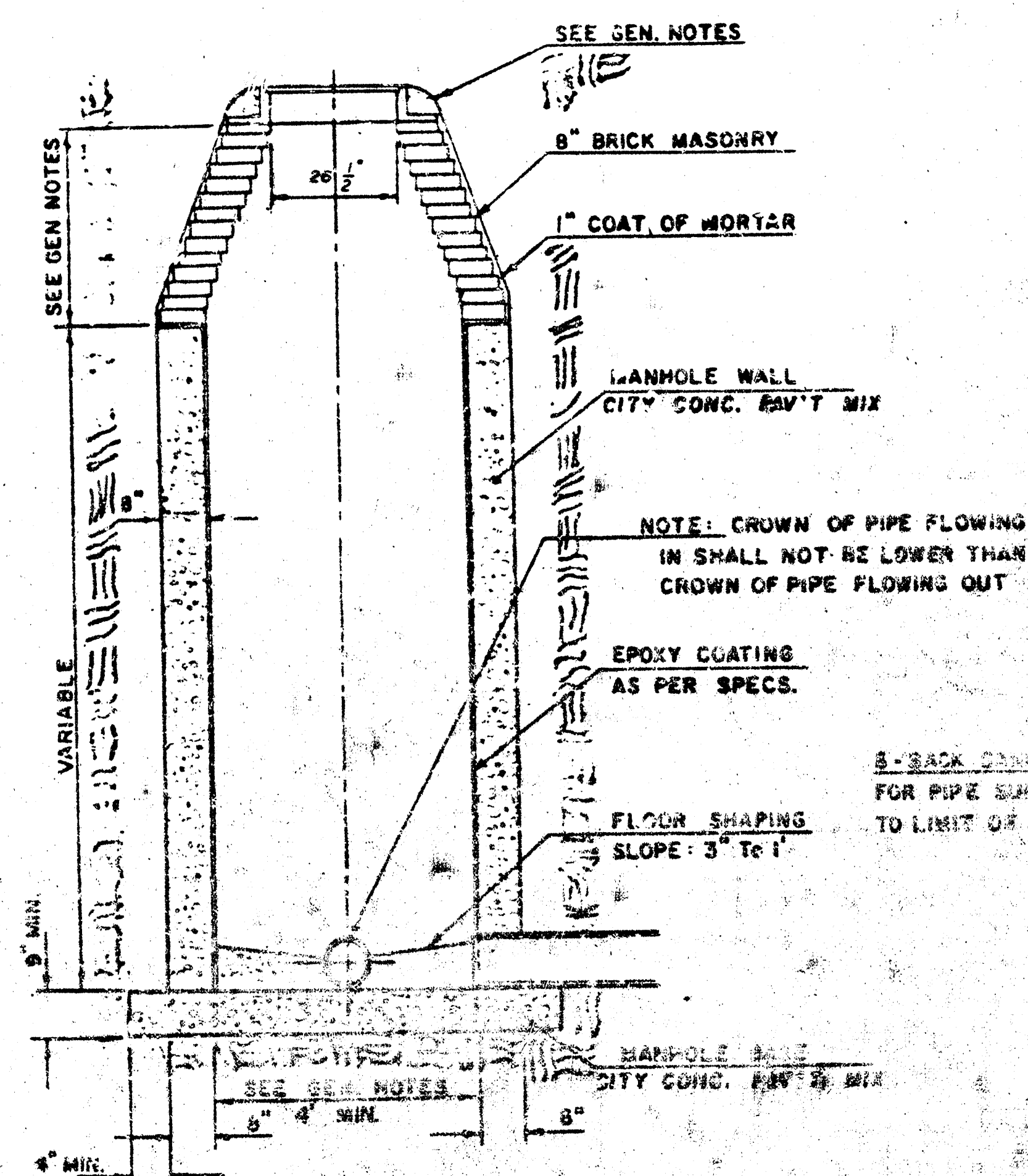


SEWER APPURTENANCES DETAILS

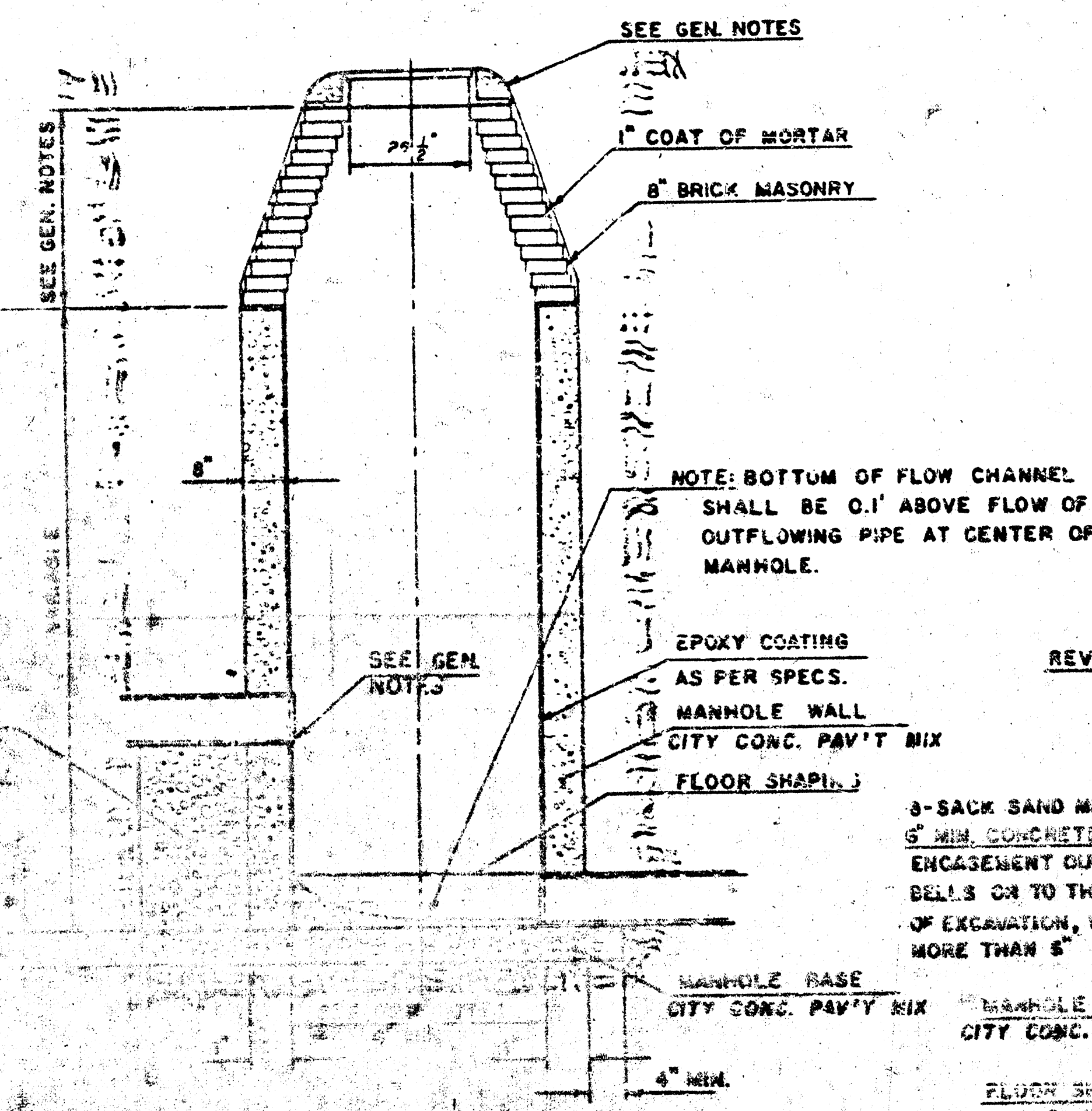
ADOPTED AS STANDARD DESIGN
BY

CITY OF WICHITA, KANSAS

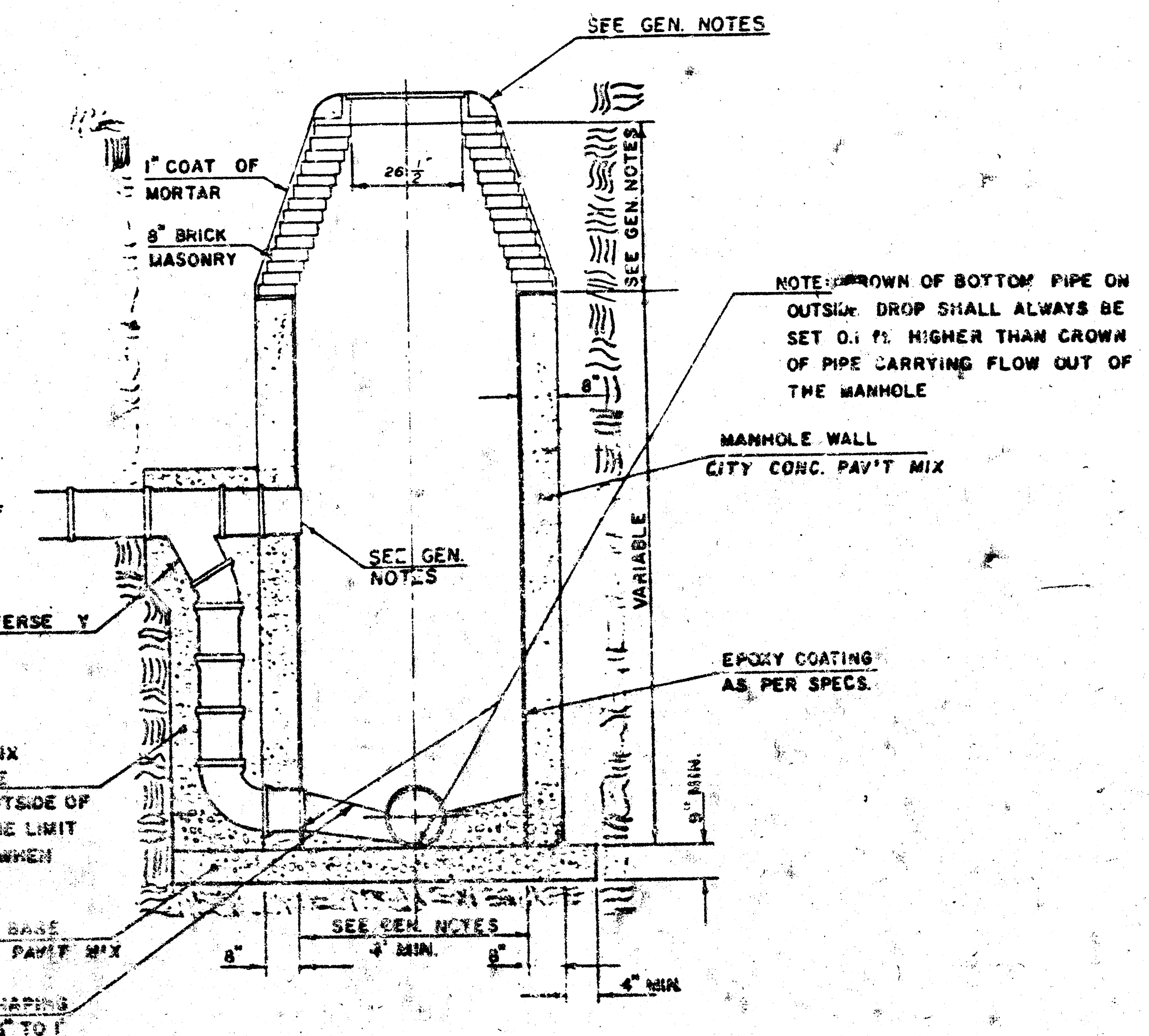
TYPE "D" MANHOLE



TYPE "D" INSIDE DROP MANHOLE



TYPE "D" OUTSIDE DROP MANHOLE



1. MANHOLE USED IN EXISTING SEWER LINES SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF THE CITY OF WICHITA, KANSAS, STANDARD SPECIFICATIONS FOR SEWER APPURTENANCES. THE CITY STANDARD SPECIFICATIONS SHALL BE USED FOR THE CONSTRUCTION OF THE MANHOLE. THE CITY STANDARD SPECIFICATIONS SHALL BE USED FOR THE CONSTRUCTION OF THE MANHOLE. THE CITY STANDARD SPECIFICATIONS SHALL BE USED FOR THE CONSTRUCTION OF THE MANHOLE.
2. REINFORCING STEEL SHALL BE USED IN THE MANHOLE BASE. REINFORCING STEEL SHALL BE USED IN THE MANHOLE BASE. REINFORCING STEEL SHALL BE USED IN THE MANHOLE BASE. REINFORCING STEEL SHALL BE USED IN THE MANHOLE BASE. REINFORCING STEEL SHALL BE USED IN THE MANHOLE BASE.
3. AN OPENING SHALL BE CUT IN THE MANHOLE WALL FOR THE UPPER INLET PIPE FOR INSIDE AND OUTSIDE DROP MANHOLES. THE UPPER INLET PIPE SHALL BE CURVED INTO THE MANHOLE WITH A RADIUS OF 18 INCHES. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE COVERED WITH A RADIUS OF 18 INCHES. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE COVERED WITH A RADIUS OF 18 INCHES. THE EXTERIOR OF THIS COMPLETED CONNECTION SHALL BE COVERED WITH A RADIUS OF 18 INCHES.
4. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND AREAS WHERE SOLIDS COULD BE DEPOSITED OR WHERE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE

- OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLUING 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 DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAY THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO REVEAL 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.
5. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE GRADED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN GRAD WITH IS USED THE GRADE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE GRADE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF GRADE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
6. 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.
7. THE VERTICAL FREE FALL DROP INSIDE MANHOLES SHALL NOT EXCEED 2'. THE CROWNS OF INFLUING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
8. STANDARD MANHOLES TYPE "D" AND STANDARD INSIDE DROP MANHOLE TYPE "D" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES TYPE "D" SHALL BE BID AS 5' AND OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

NOTE: EPOXY COATING ON INTERIOR CONCRETE SURFACES MAY BE DELETED. MANHOLES ARE CONSTRUCTED ON SEWERS WITH DIAMETERS SMALLER THAN 36 INCHES.

NOTE NO. 7 REVISED JAN. 1991

APRIL 1987 Sht. 6 of 6

14-02-05-08