



850'
5250'
2750'

LEGEND

ROADS	
RAILROADS	
RIVERS	
CREEKS	
APPROXIMATE CORPORATE LIMITS	
EXISTING SEWERS	
PROPOSED SEWERS	
PROPOSED WATER	

THOMAS HALLOWAY
REGISTERED ENGINEER
No. 8236
STATE OF TENNESSEE

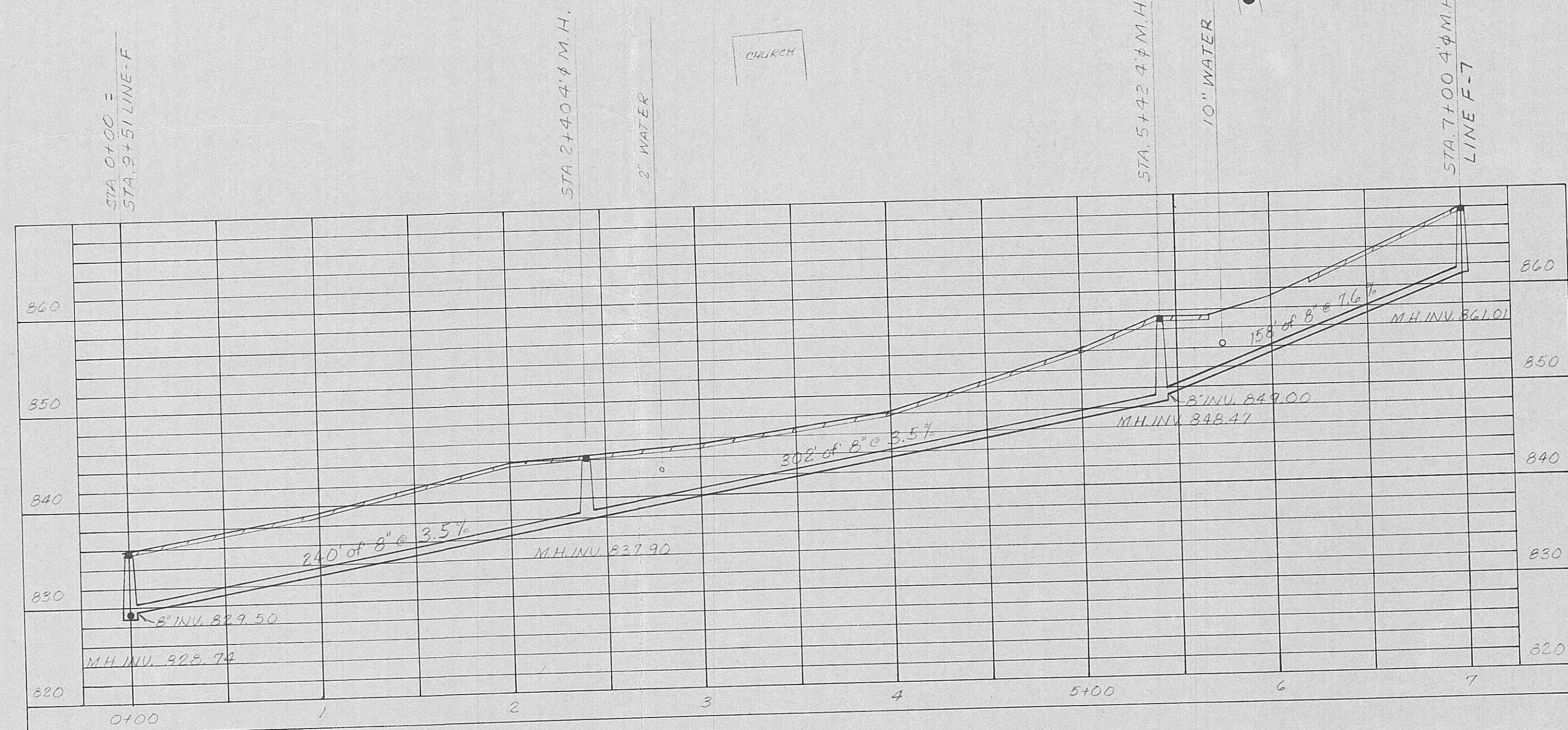
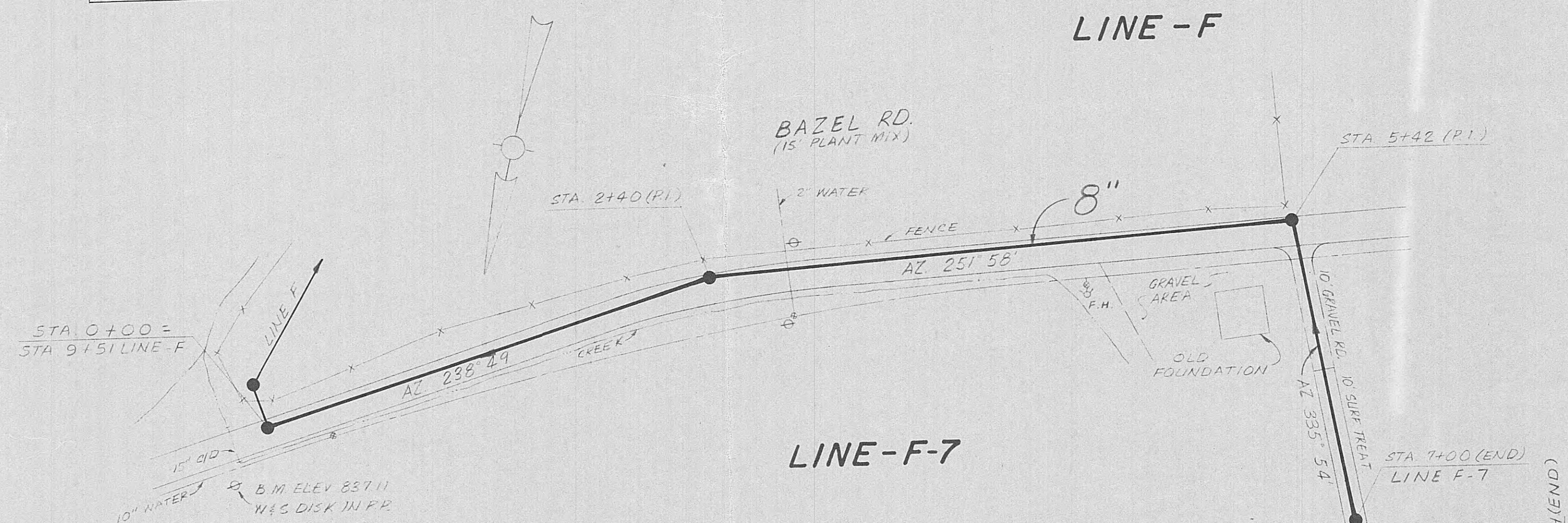
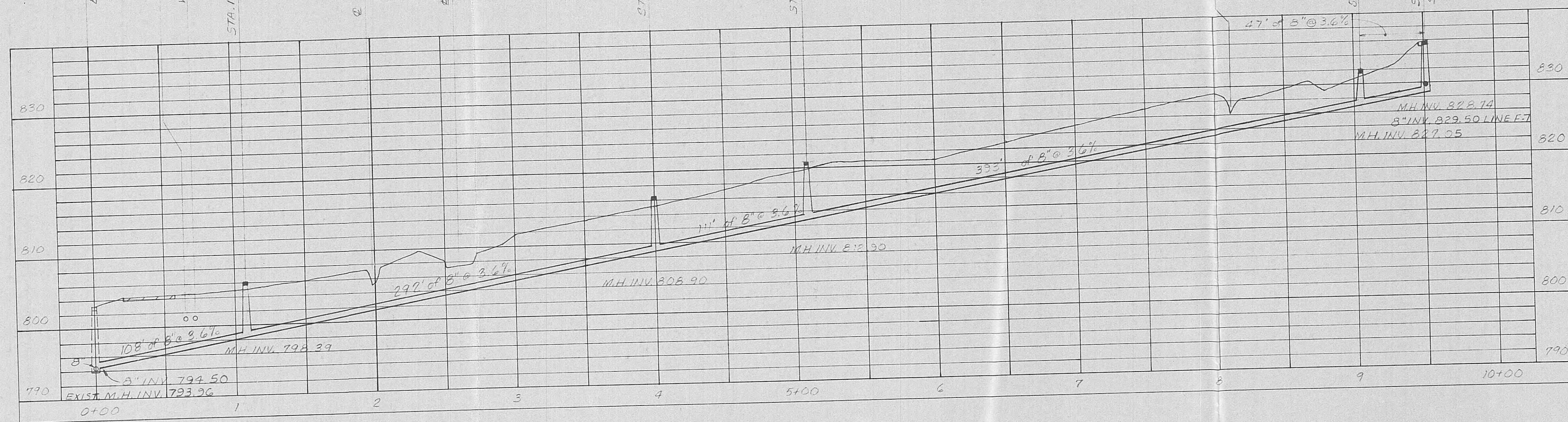
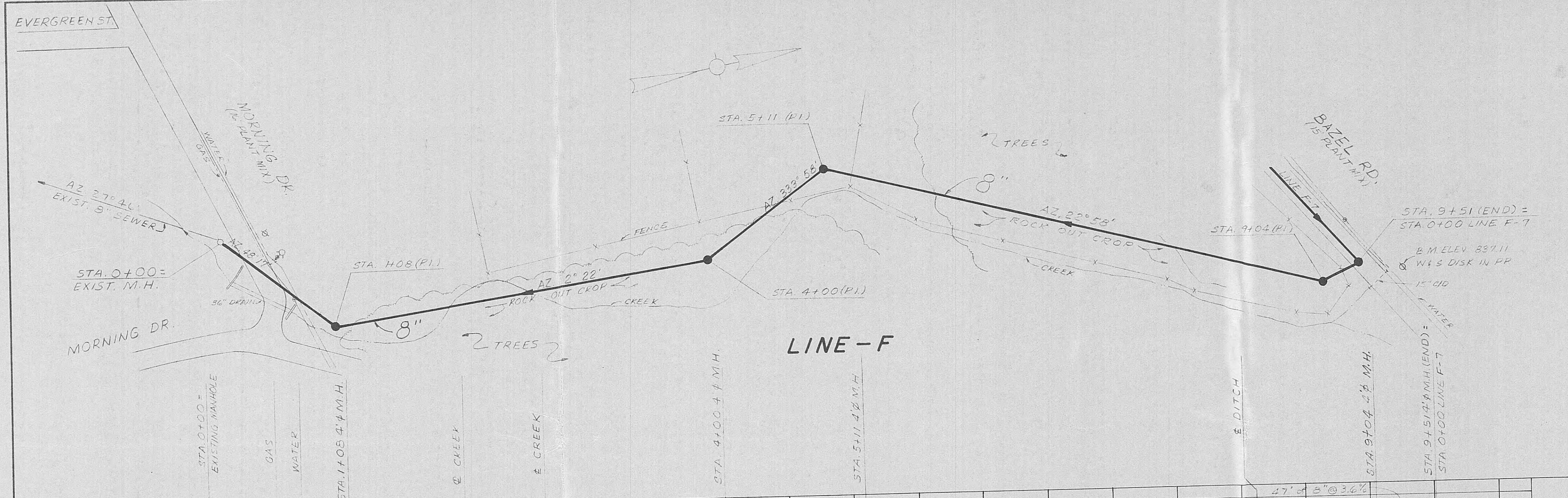
HUD PROJECT NO. CDBG B-78-HN-47-C
DIVISION ONE & TWO

CITY OF HARRISMAN TENNESSEE
WATER AND SEWERAGE SYSTEM IMPROVEMENTS

LOCATION MAP

SCALE 1" = 800'	WIEDEMAN AND SINGLETON ENGINEERS
DATE MARCH 1980	ATLANTA GEORGIA

RECORD DWG. NOV. 1980



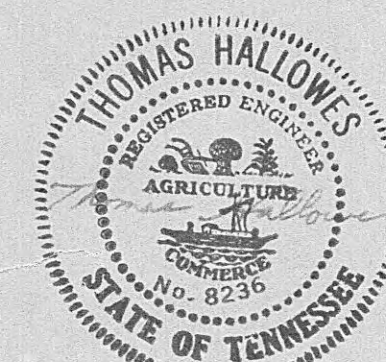
HUD PROJECT NO. CDBG B-78-HN-47-00
DIVISION TWO

CITY OF HARRIMAN TENNESSEE
WATER AND SEWERAGE SYSTEM IMPROVEMENT

BAZELTOWN SANITARY SEWER

LINE-F STA. 0+00 TO STA. 9+51 (END)

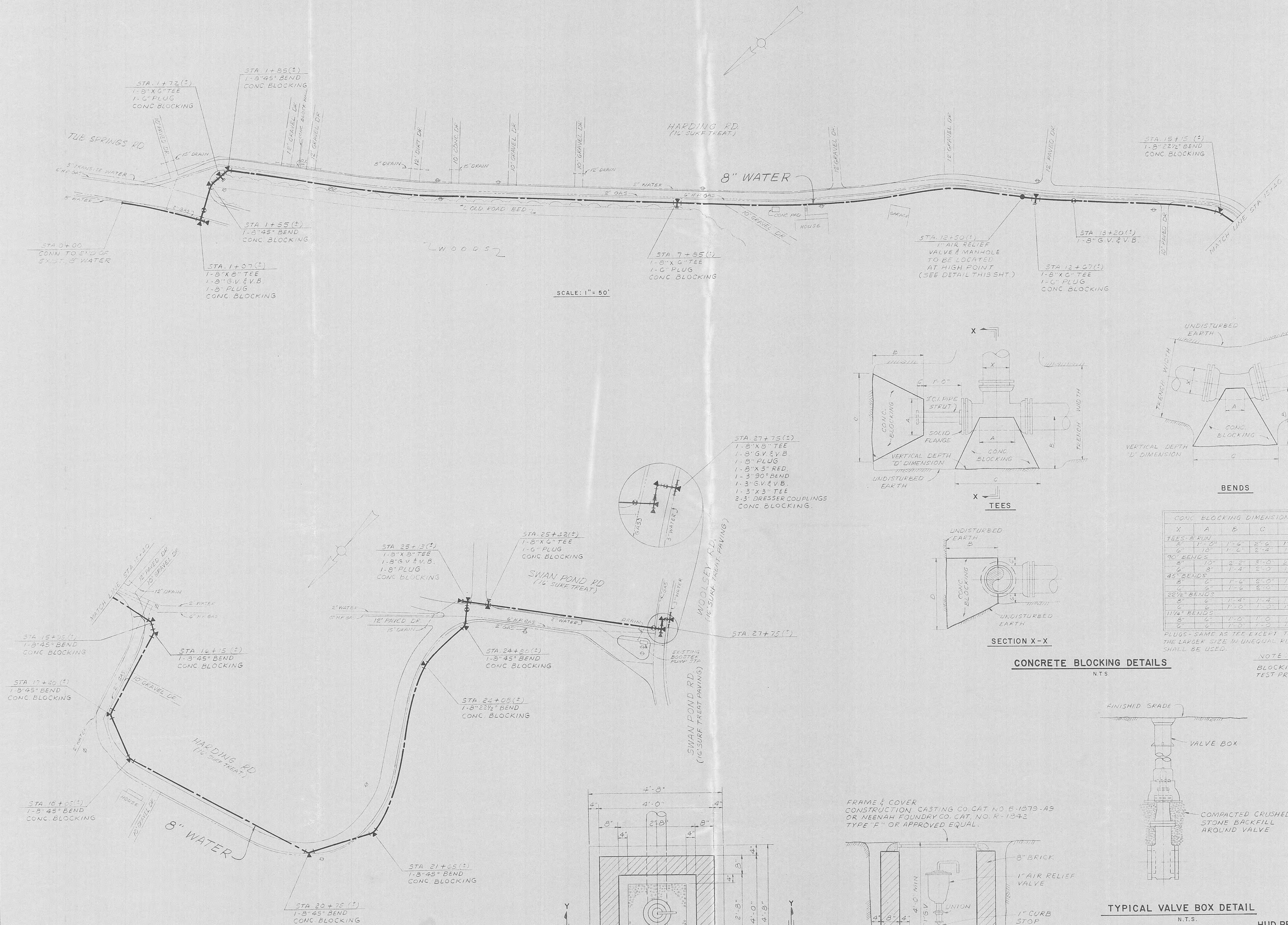
LINE-F-7 STA. 0+00 TO STA. 7+00 (END)



SCALE
1" = 50' HORIZ.
1" = 10' VERT.
DATE
MARCH 1980

WIEDEMAN AND SINGLETON
ENGINEERS
ATLANTA GEORGIA

RECORD DWG., NOV. 1980



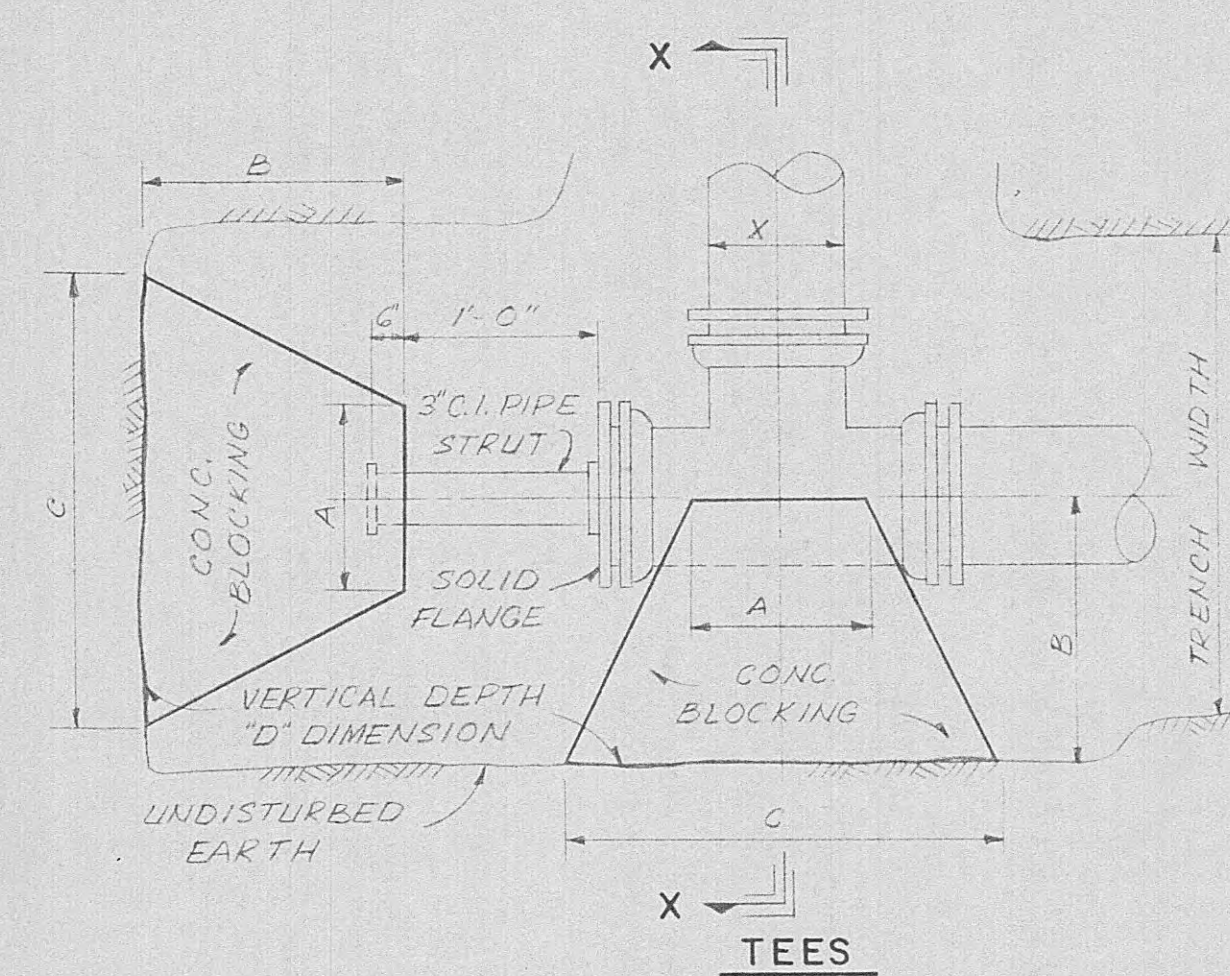
SCALE: 1" = 50'

SCALE: 1" = 50'

WALL PLAN

TYPICAL DETAIL OF AIR RELIEF VALVE M.H.

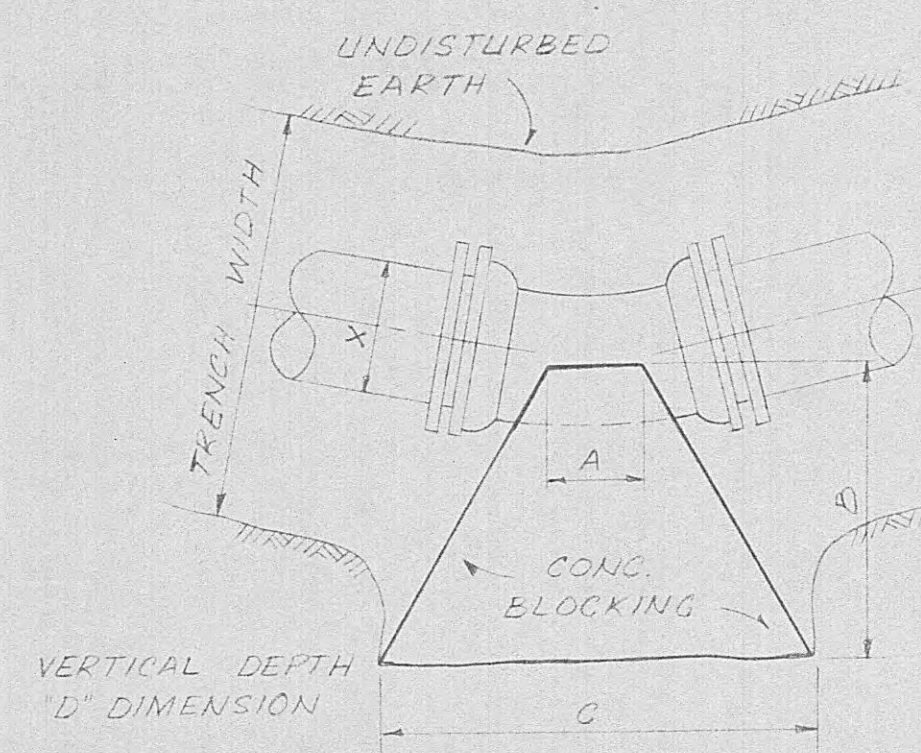
3/4" = 1'-0"



SECTION X-X

CONCRETE BLOCKING DETAILS

N.T.S.

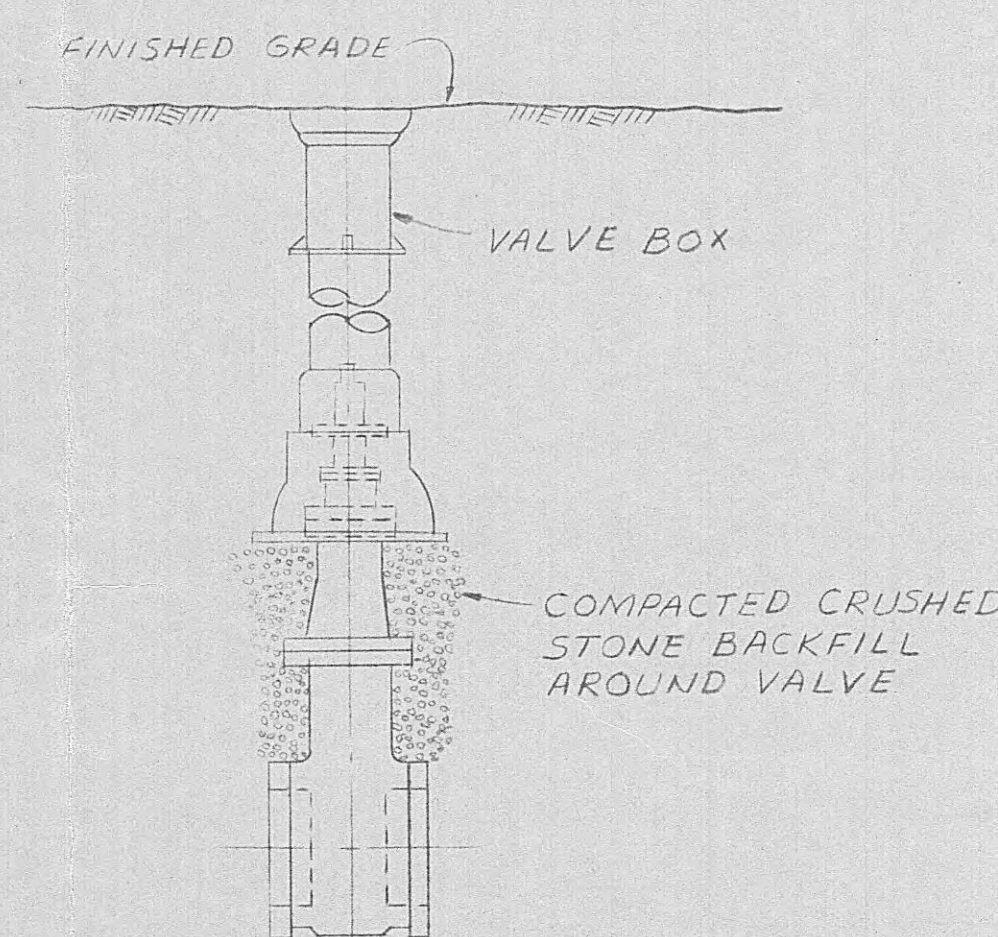


BENDS

CONC. BLOCKING DIMENSIONS					
X	A	B	C	D	E
TEES - 8" RUN					
8"	1'-0"	1'-0"	2'-0"	1'-8"	
6"	1'-0"	1'-0"	2'-0"	1'-0"	
90° BENDS					
8"	1'-0"	2'-0"	3'-0"	2'-0"	
6"	1'-0"	1'-4"	2'-0"	1'-5"	
45° BENDS					
8"	1'-0"	1'-4"	2'-0"	1'-8"	
6"	1'-0"	1'-4"	2'-0"	1'-0"	
20°/16° BENDS					
8"	1'-0"	1'-4"	1'-4"	1'-8"	
6"	1'-0"	1'-0"	1'-0"	1'-0"	
11 1/2° BENDS					
8"	1'-0"	1'-0"	1'-0"	1'-0"	
6"	1'-0"	1'-0"	1'-0"	1'-0"	

PLUGS - SAME AS TEE EXCEPT THAT THE LARGER SIZE IN UNEQUAL RUNS SHALL BE USED.

NOTE: BLOCKING DESIGNED FOR 200 P.S.I. TEST PRESSURE AND 2500 P.S.F. SOIL.



N.T.S.

HUD PROJECT NO. CDBG B-78-HN-47-00
DIVISION ONE

CITY OF HARRIMAN TENNESSEE
WATER AND SEWERAGE SYSTEM IMPROVEMENT

EMORY HEIGHTS WATER ADDITION
MISCELLANEOUS DETAILS

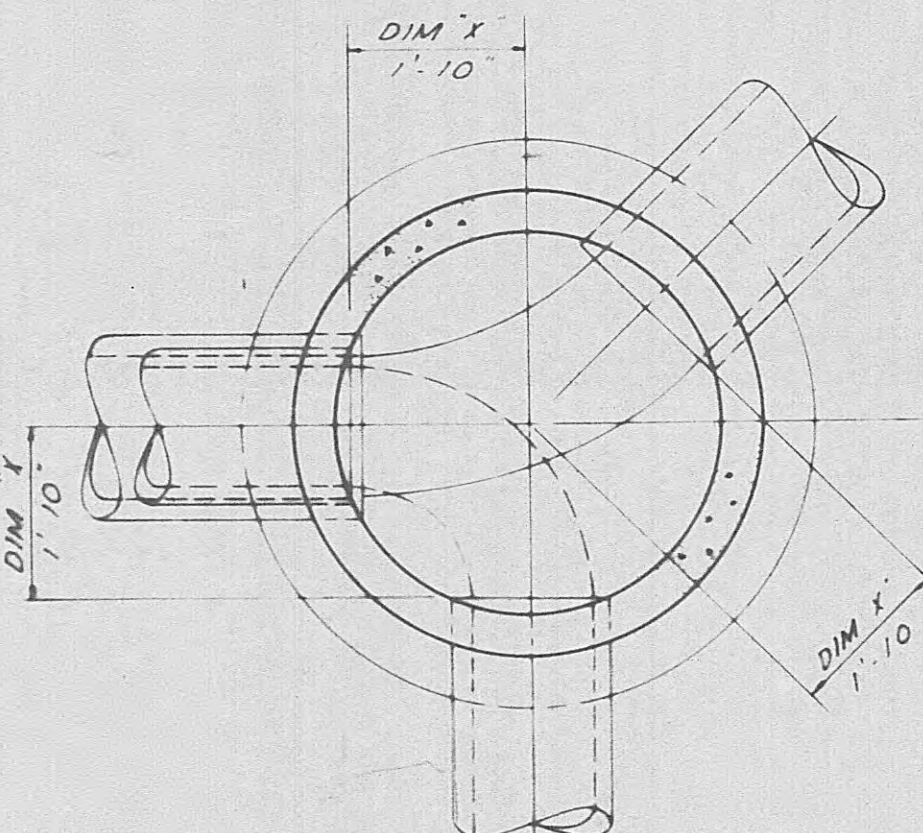


SCALE: AS SHOWN
DATE: MARCH 1980
WIEDEMAN AND SINGLETON ENGINEERS
ATLANTA, GEORGIA

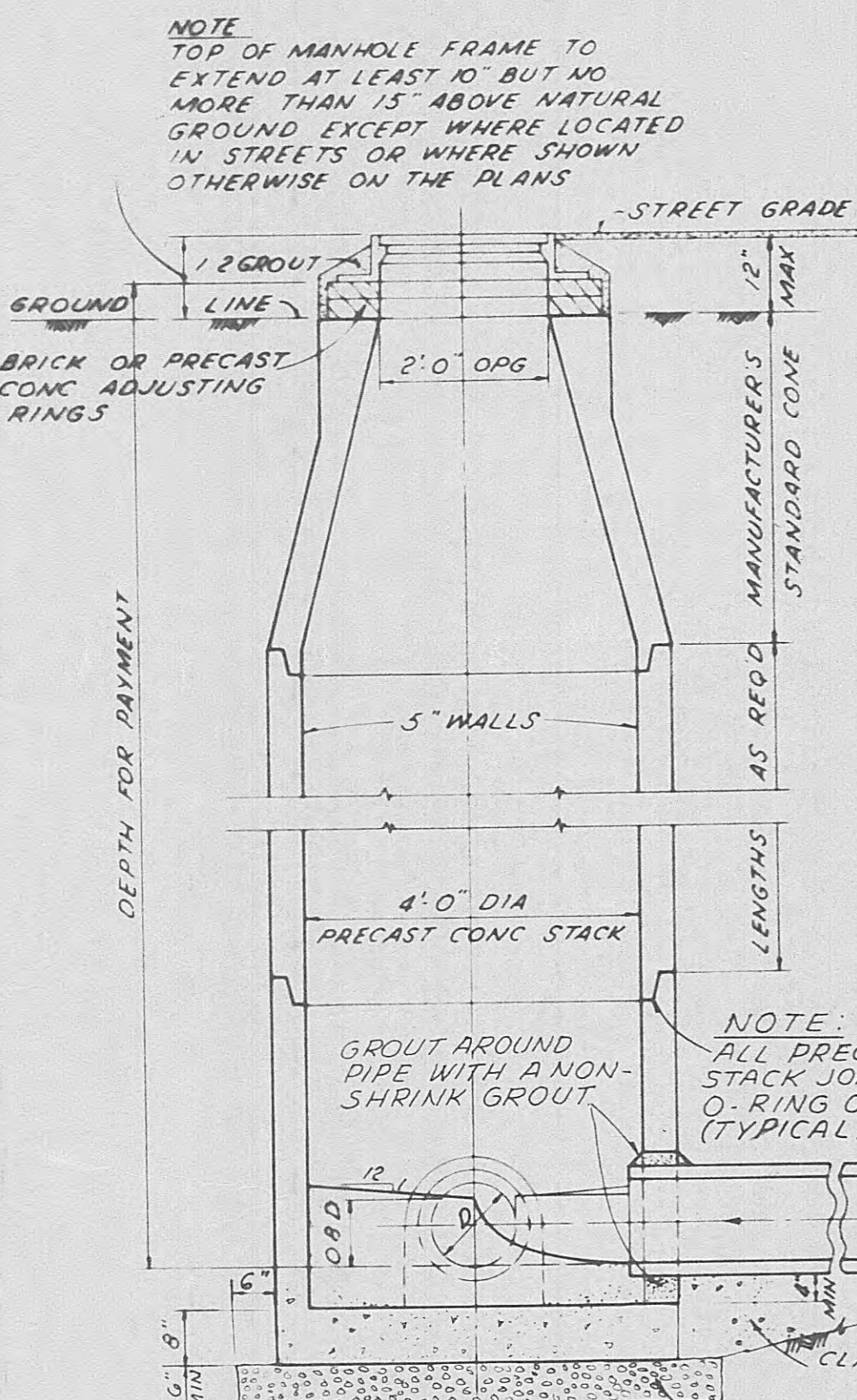
RECORD DWG. NOV. 1980

GOVERNING DIMENSIONS FOR CIRCULAR MANHOLES

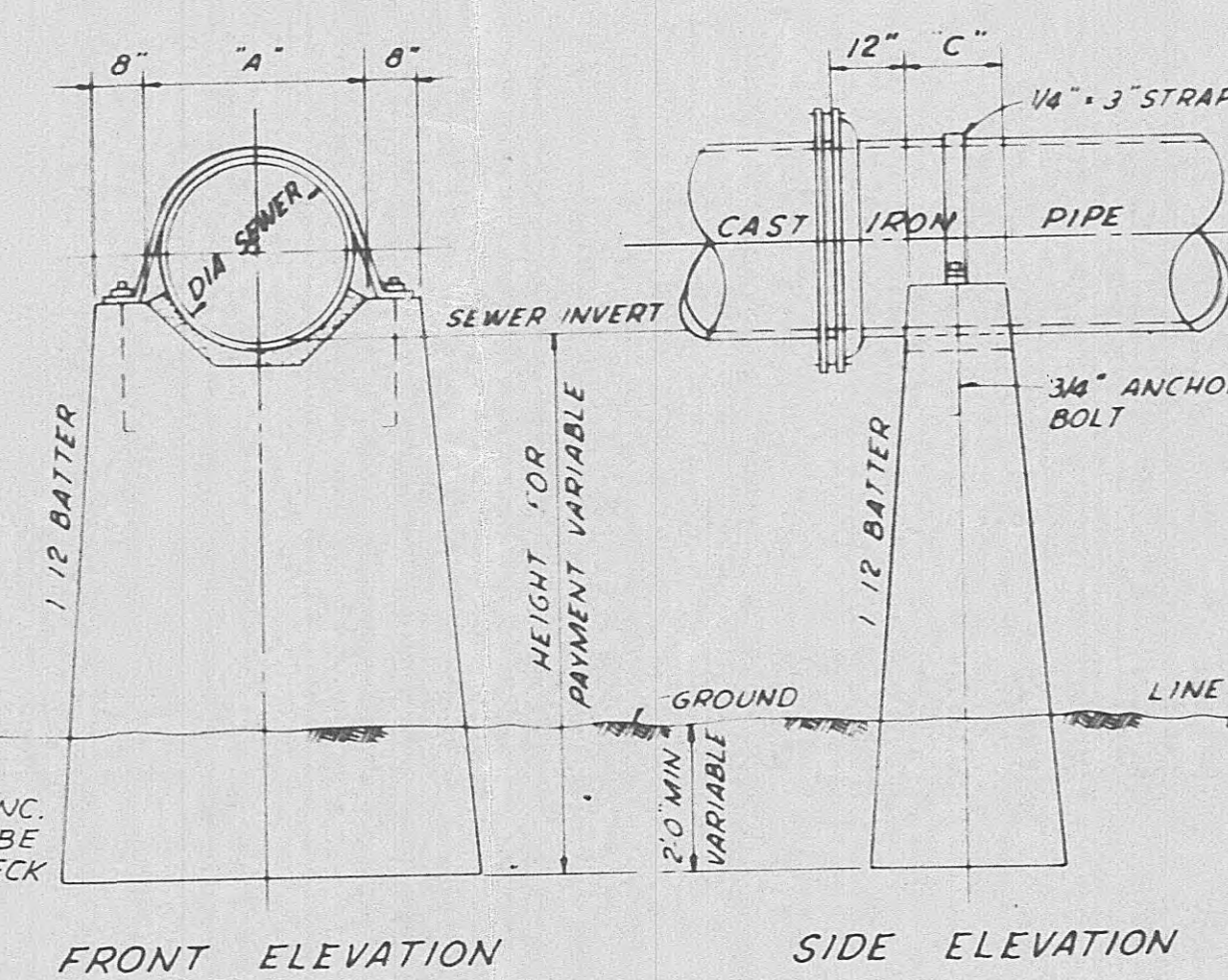
PIPE SIZE	DEFLECTION	M.H. DIA.	"X"
8" & 15"	0" & 90"	4' & 0"	1'-10"



TYPICAL INVERT PLAN (ALL SIZES)
SCALE: 1/2" = 1'-0"



TYPICAL 4'-0" SHALLOW MANHOLE



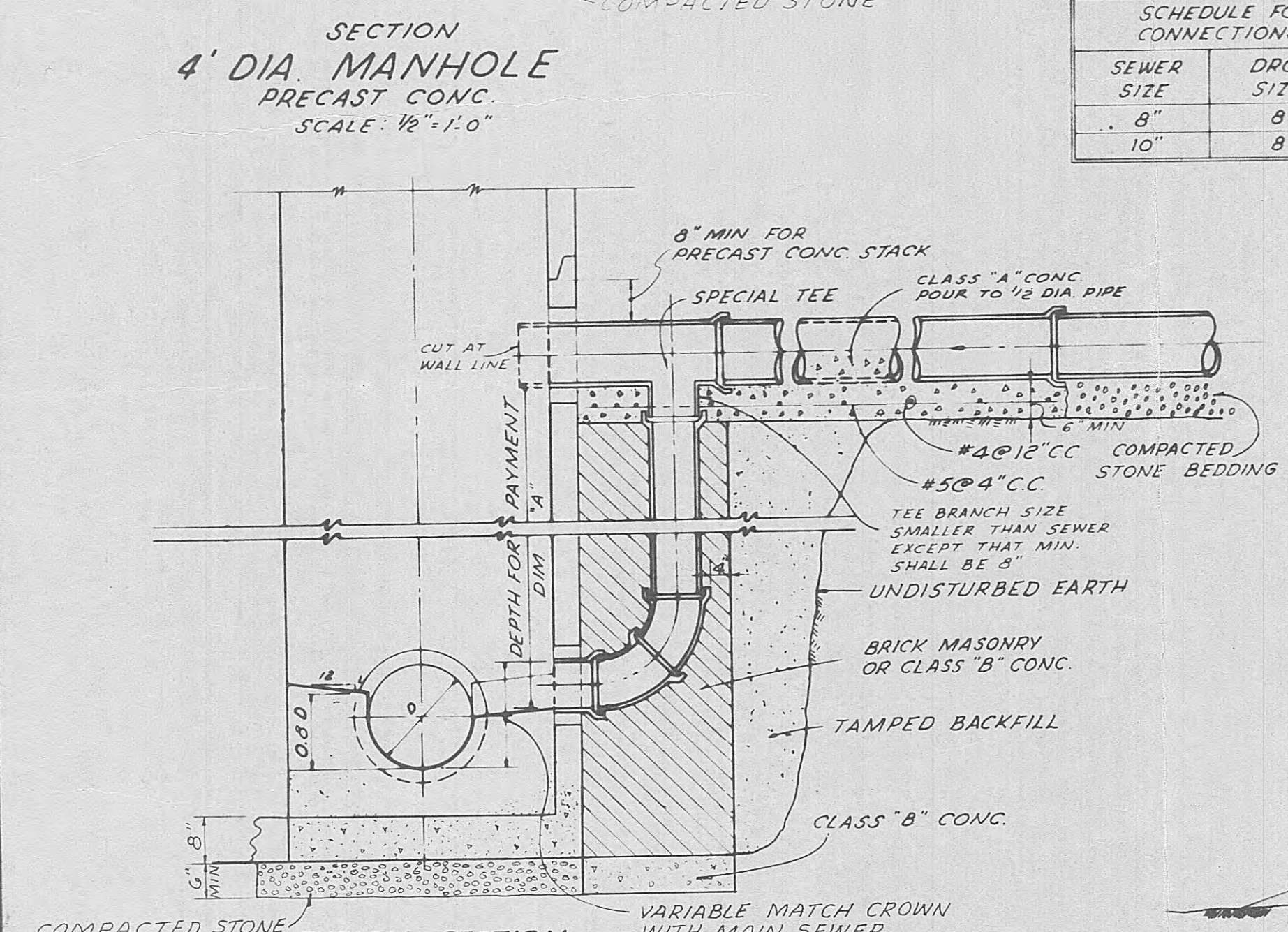
TYPICAL DETAIL OF C.I. PIPE ON PIERS
N.T.S.

SCHEDULE FOR DROP CONNECTIONS DIM "A"

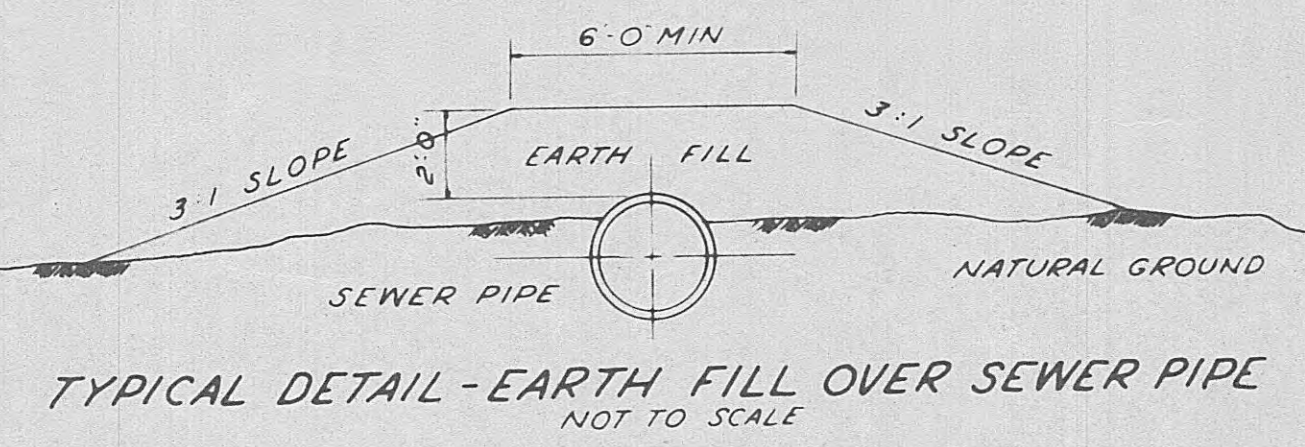
SEWER SIZE	DROP SIZE	MINIMUM INV. TO INV.
8"	8"	24"
10"	8"	24"

GOVERNING DIMENSIONS FOR CONCRETE PIERS

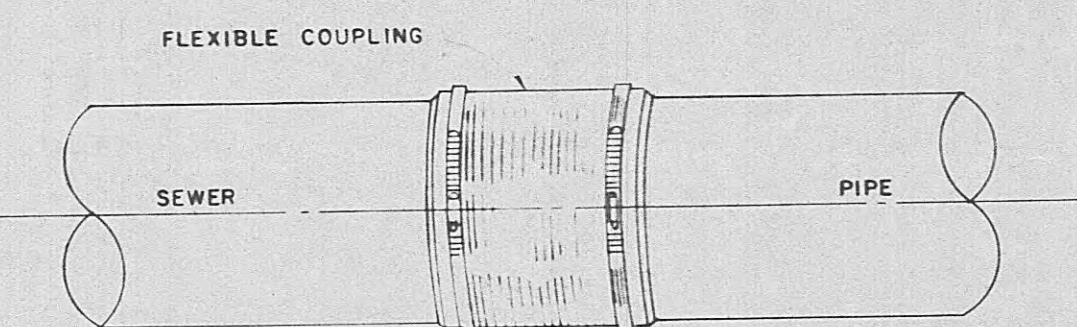
I.D. PIPE	A	B	C
8"	11 1/2"	2"	8"
10"	13 1/2"	2 1/2"	10"
12"	15 1/2"	3"	10"
15"	19"	4"	11"



TYPICAL SECTION MANHOLE DROP CONNECTION
SCALE: 1/2" = 1'-0"

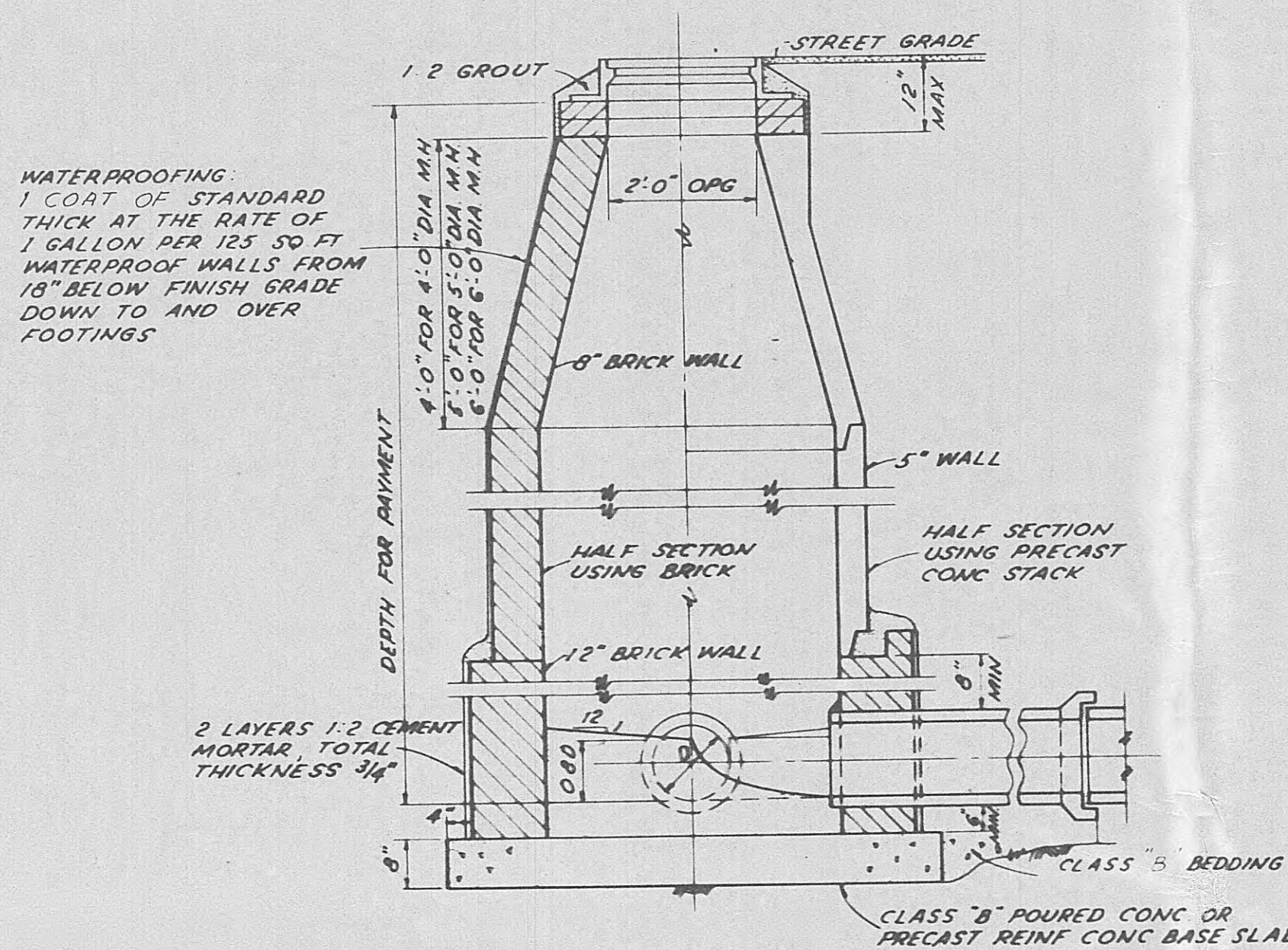


TYPICAL DETAIL - EARTH FILL OVER SEWER PIPE
NOT TO SCALE



TYPICAL DETAIL - FLEXIBLE COUPLING FOR JOINTING SEWER PIPE

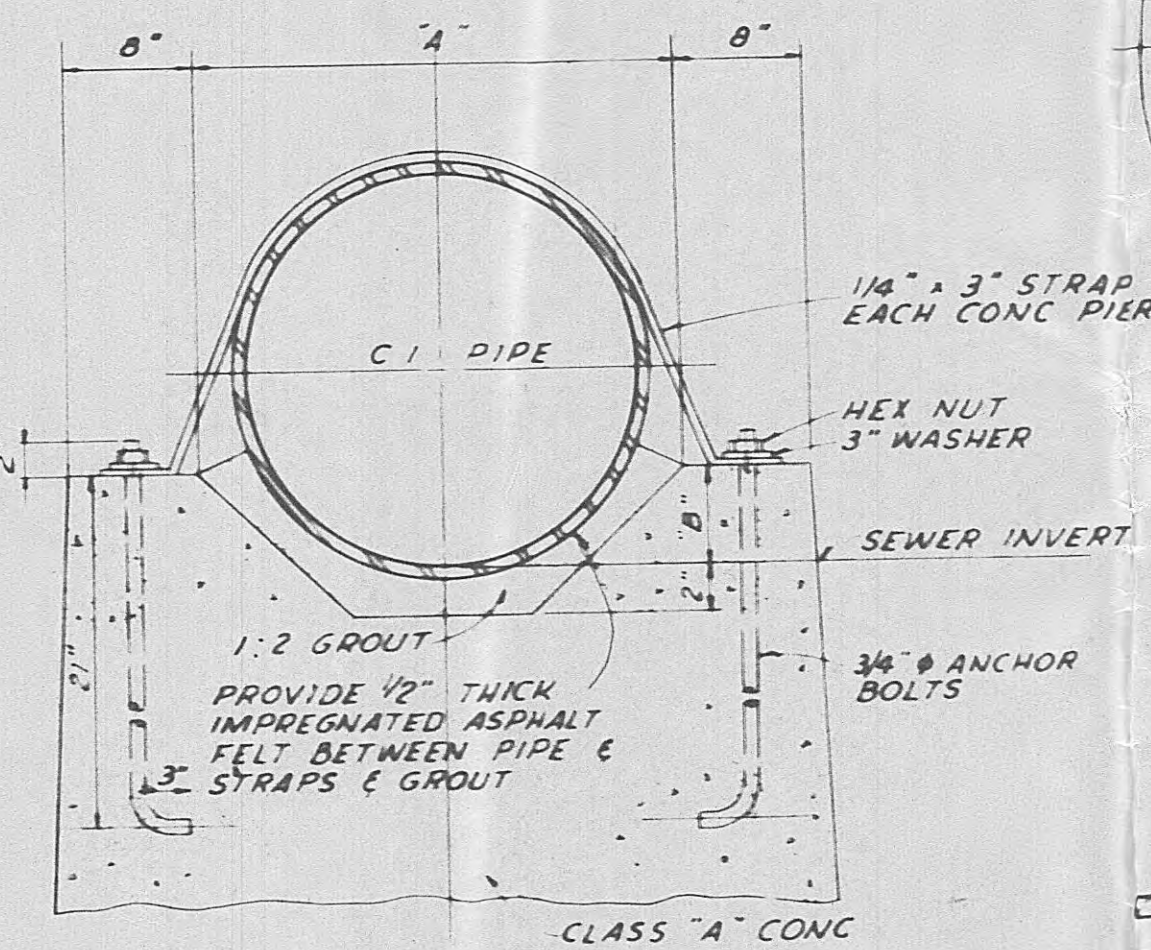
NOTE: (1) CONTRACTOR TO USE COUPLING AS RECOMMENDED BY MFG. IN JOINTING UNLIKE TYPES OF PIPE.
(2) FLEXIBLE COUPLING - PIPE SIZES 6" THRU 24"



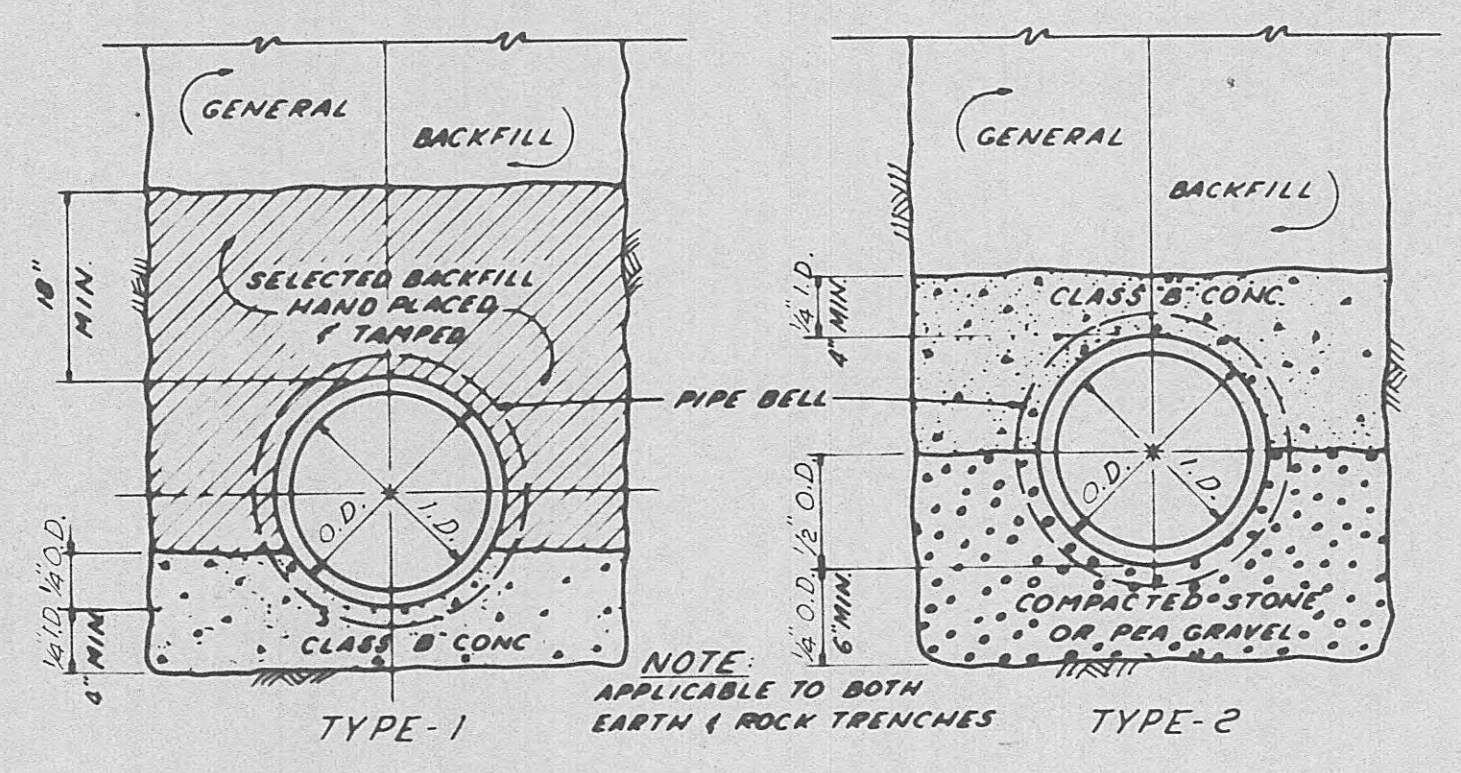
4'-5' OR 6' DIA. MANHOLE (ALTERNATE CONSTRUCTION)
SCALE: 1/2" = 1'-0"

MANHOLE STEP DETAIL (FOR BRICK MANHOLES)

MANHOLE STEP DETAIL (FOR PRECAST MANHOLES)

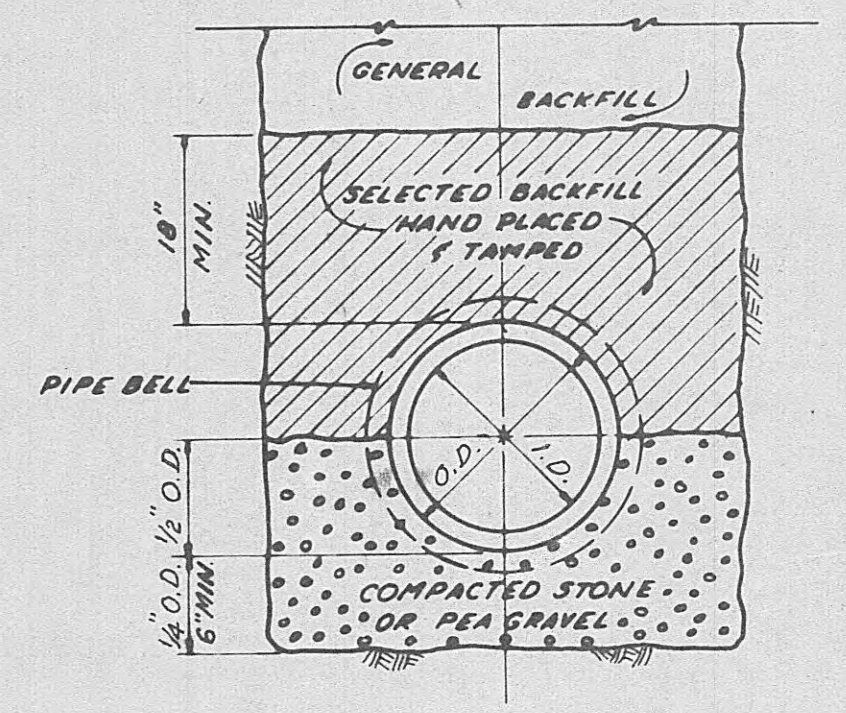


ENLARGED SECTION
SCALE: 1" = 1'-0"

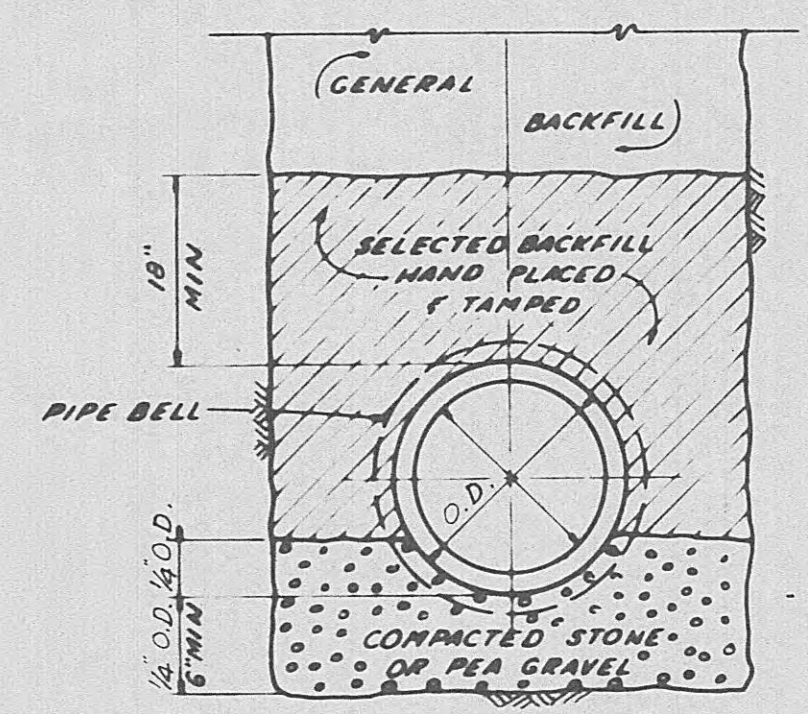


CLASS "A" BEDDING
USE EITHER TYPE

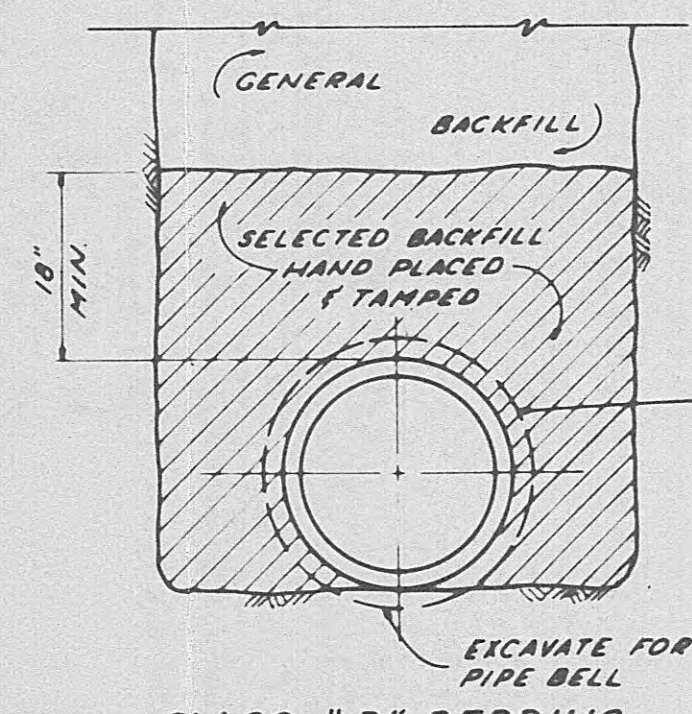
NOTE: BC = BREADTH OF CONDUIT



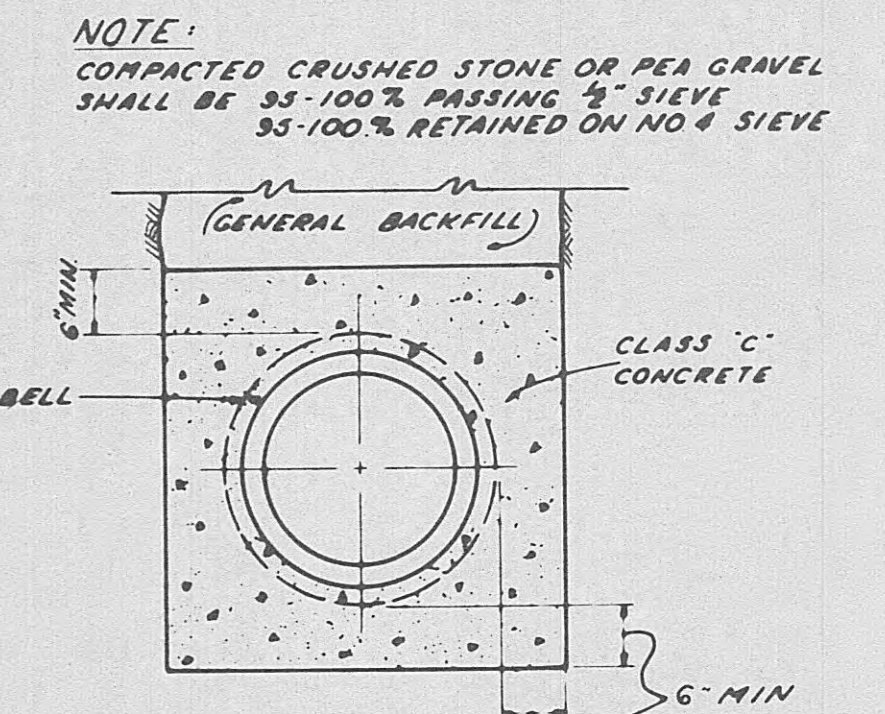
CLASS "B" BEDDING



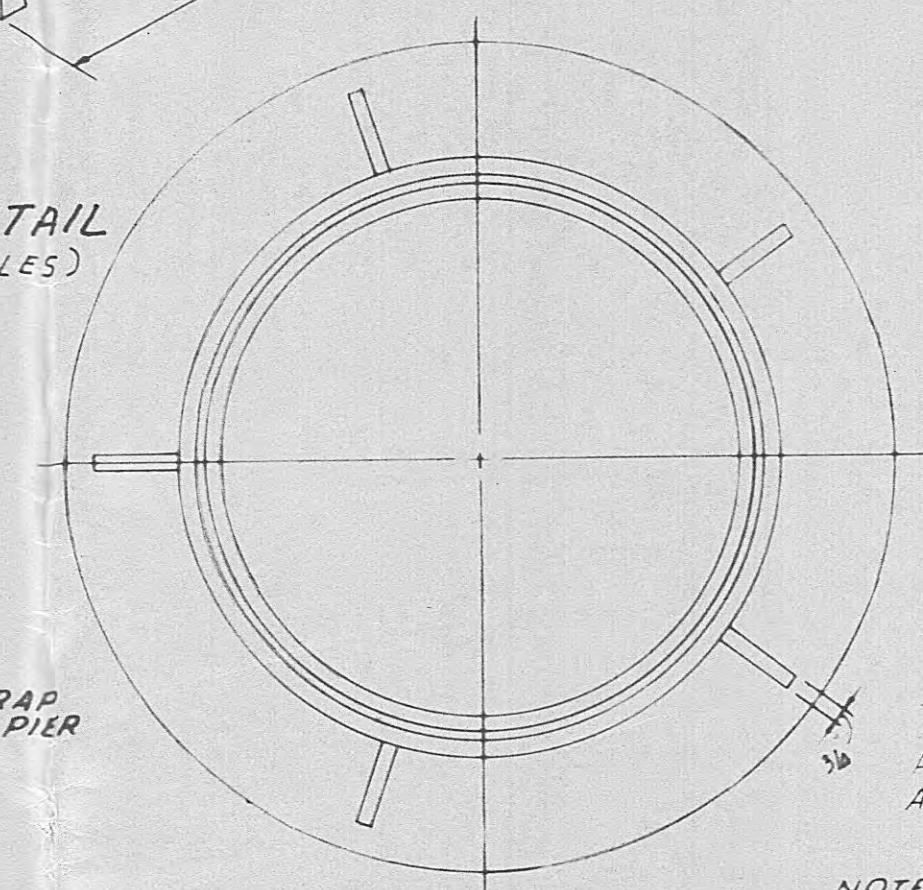
CLASS "C" BEDDING



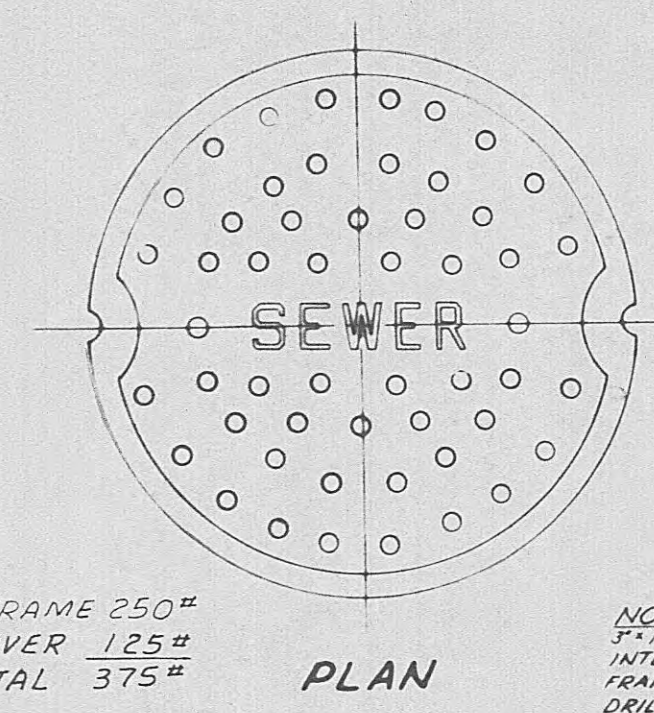
CLASS "D" BEDDING



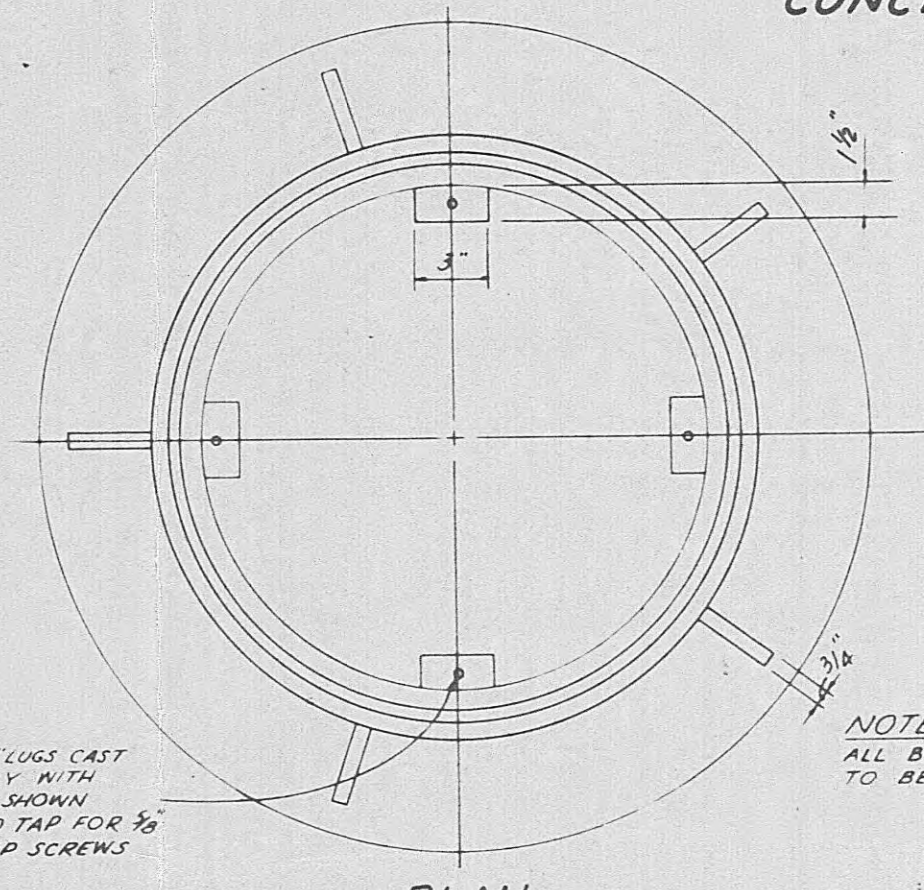
CONCRETE ENCASEMENT



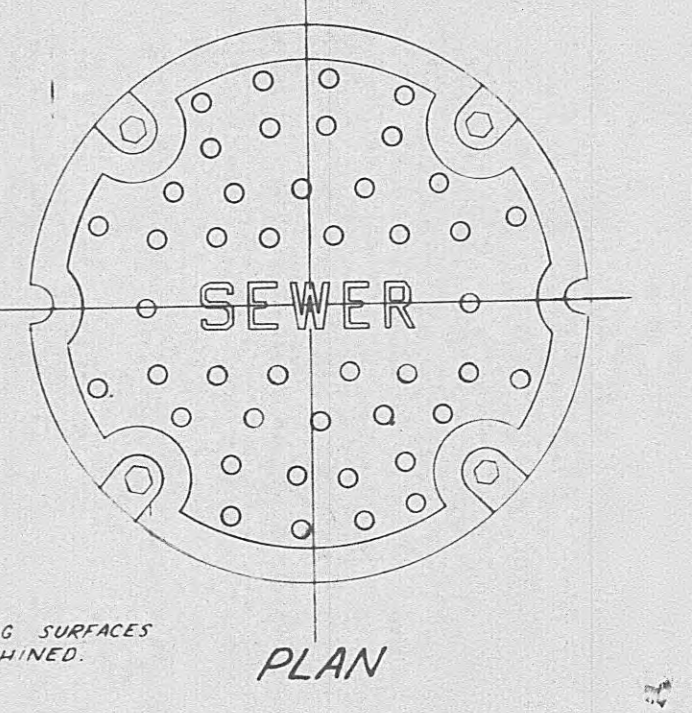
SECTION STANDARD C.I. MANHOLE FRAME
NOT TO SCALE



SECTION STANDARD C.I. MANHOLE COVER
NOT TO SCALE



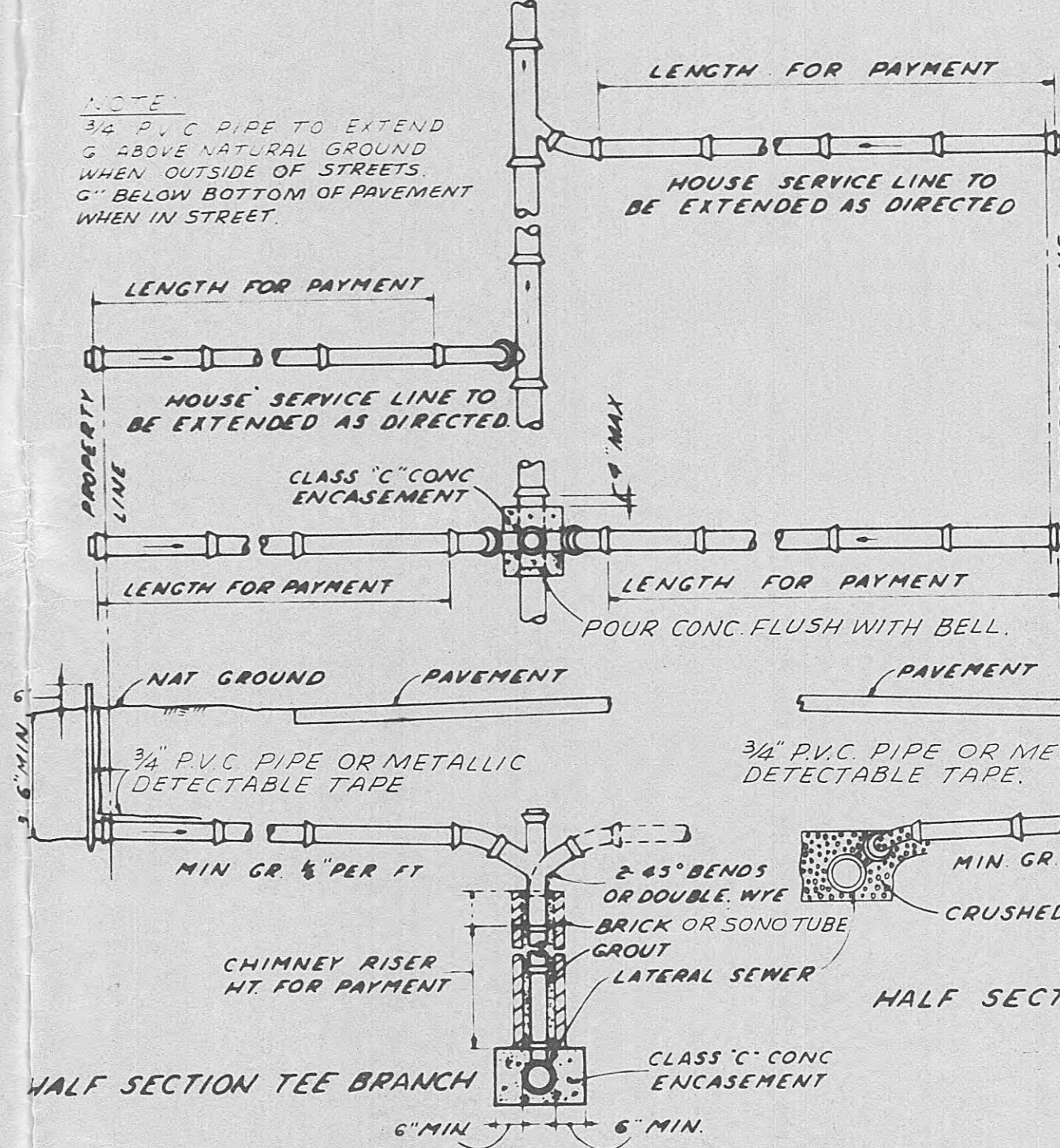
SECTION WATERTIGHT C.I. MANHOLE FRAME
NOT TO SCALE



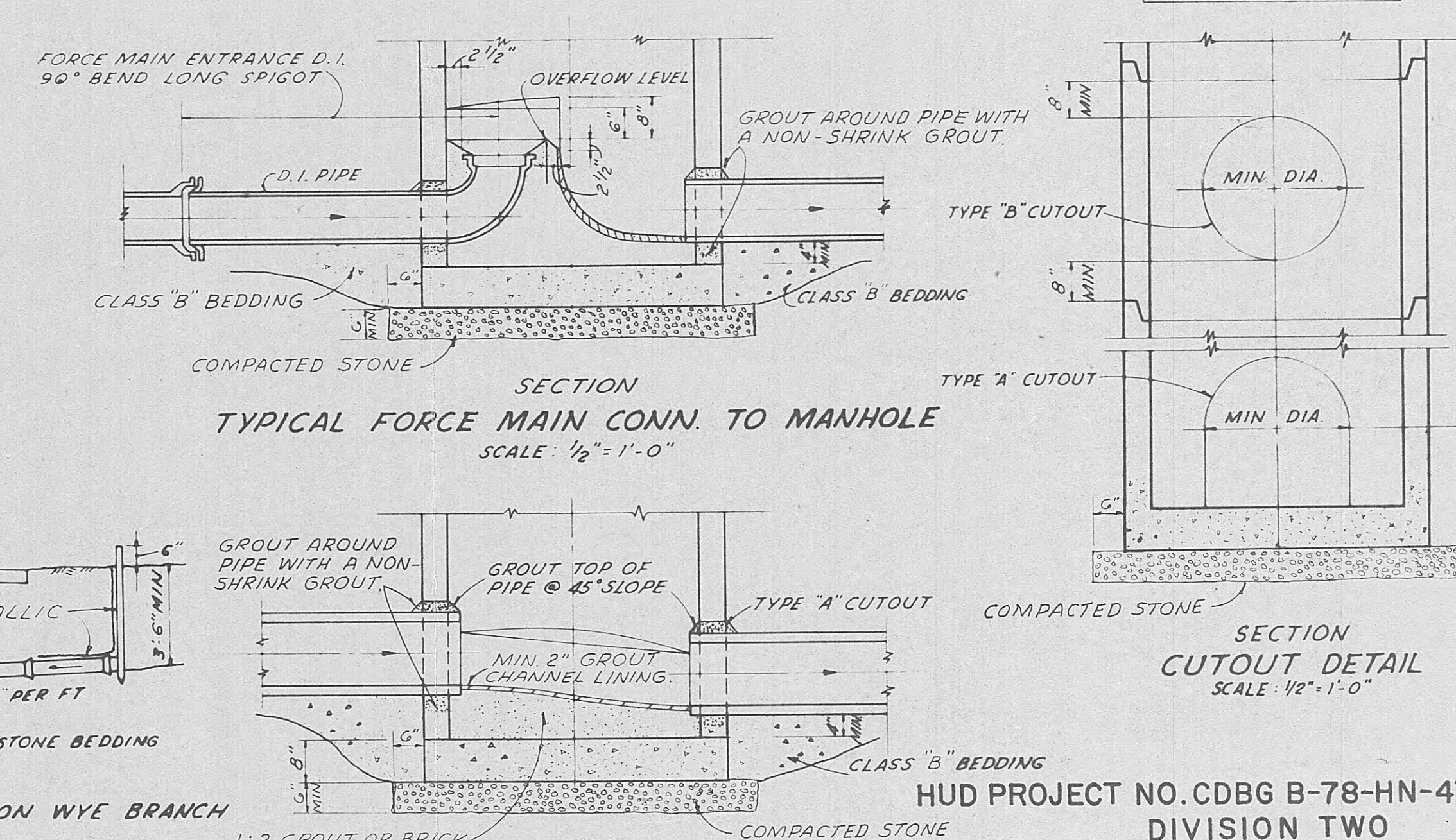
SECTION WATERTIGHT C.I. MANHOLE COVER
NOT TO SCALE

CUTOUT SCHEDULE

PIPE SIZE	MIN. DIA.
8"	14"
10"	16"
12"	20"
15"	24"



TYPICAL DETAILS OF SANITARY HOUSE SERVICE LINE
NOT TO SCALE



TYPICAL FORCE MAIN CONN. TO MANHOLE
SCALE: 1/2" = 1'-0"

TYPICAL MANHOLE INVERT (ALL SIZES)
SCALE: 1/2" = 1'-0"



RECORD DWG. NOV. 1980

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DIVISION TWO

CITY OF HARRIMAN TENNESSEE
WATER AND SEWERAGE SYSTEM IMPROVEMENT

MISCELLANEOUS DETAILS

SCALE AS SHOWN	WIEDEMAN AND SINGLETON ENGINEERS	SH
DATE MARCH 1980	ATLANTA GEORGIA	4
		OF