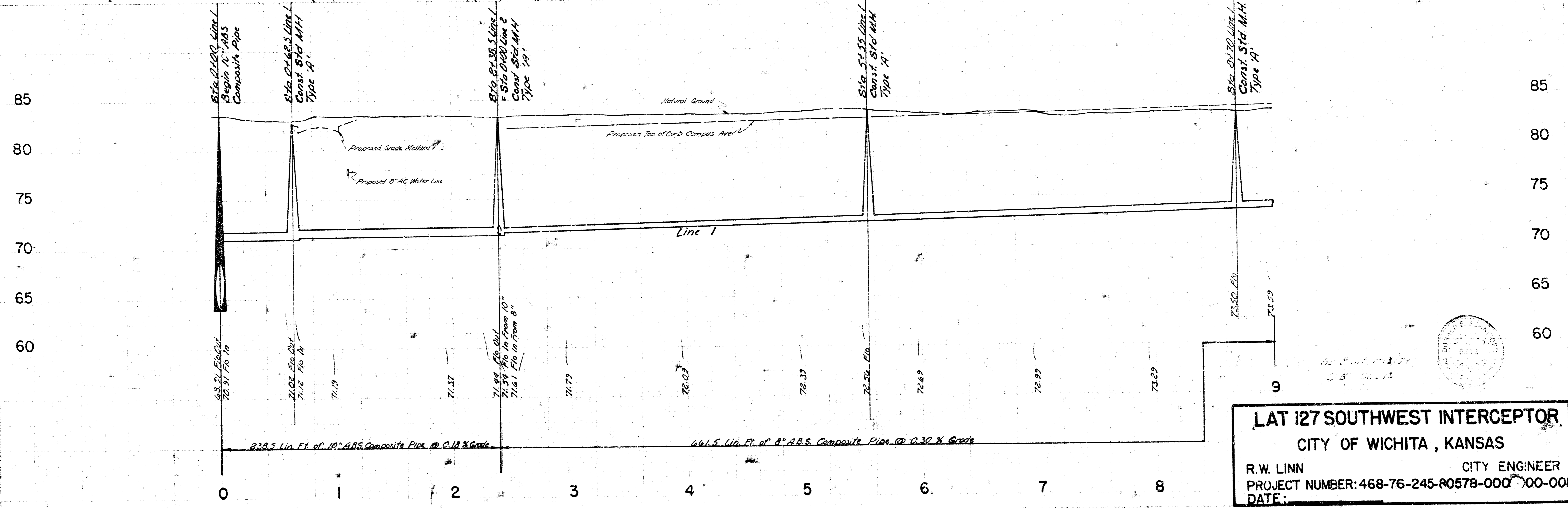
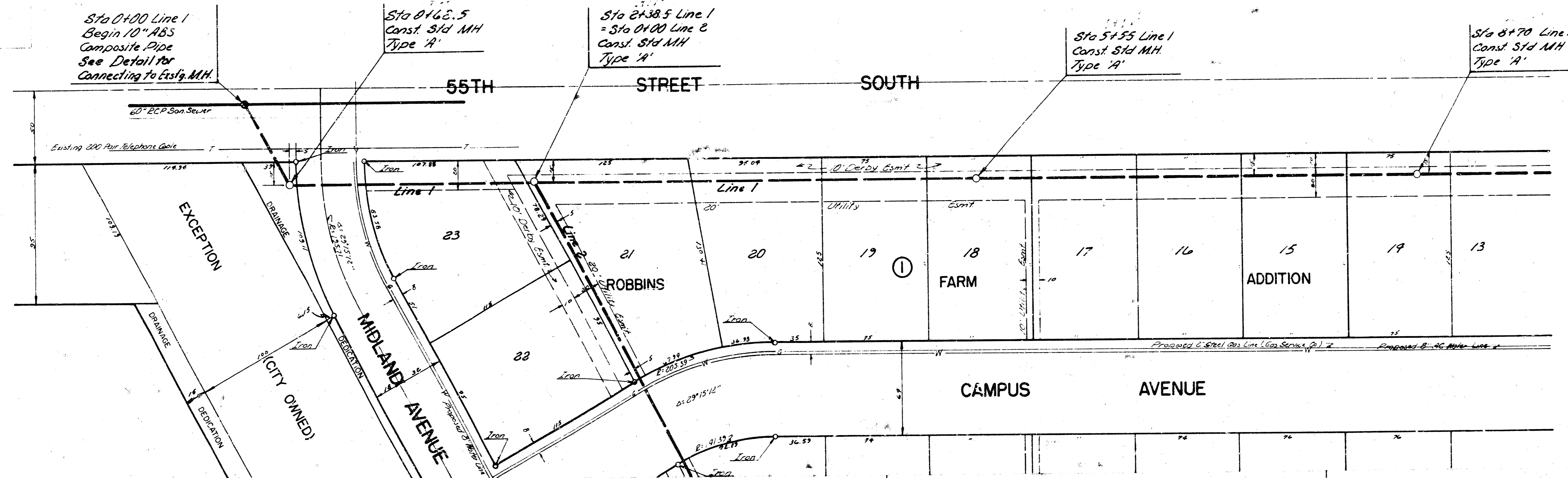


B.M. 83.58 City Std. disc 44.0 ft. East and 52.0 ft. South of Q Broadway and 55th Street South.

NOTE: FIELD ENGINEER SHALL SET TOPS OF MANHOLES TO MATCH PROPOSED FINISHED GRADE AS DETERMINED BY THE DEVELOPER. RISERS AND ADDITIONAL STEPS SHALL BE INSTALLED ON THIS PROJECT TO SERVE LOTS WHERE THE 10" OR 8" SEWER IS IN GROUND WATER. RISER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SLOPING TRENCH WALL AS SHOWN ON STANDARD RISER DETAIL SHEET. LOCATIONS OF THE ENDS OF THE RISERS SHALL BE MARKED BY PASTING GREEN PLASTIC COLORED TAPE TO THE END OF THE RISER AND BROUGHT TO THE GROUND SURFACE AS THE EXCAVATION IS BACKFILLED SUCH THAT THE COLORED TAPE WILL BE VISIBLE WHEN THE PROJECT IS COMPLETED. ALL RISERS SHALL BE CONSTRUCTED USING S.D.R. 27.5 A.B.S. PIPE.

**CAUTION**  
UNDERGROUND UTILITIES

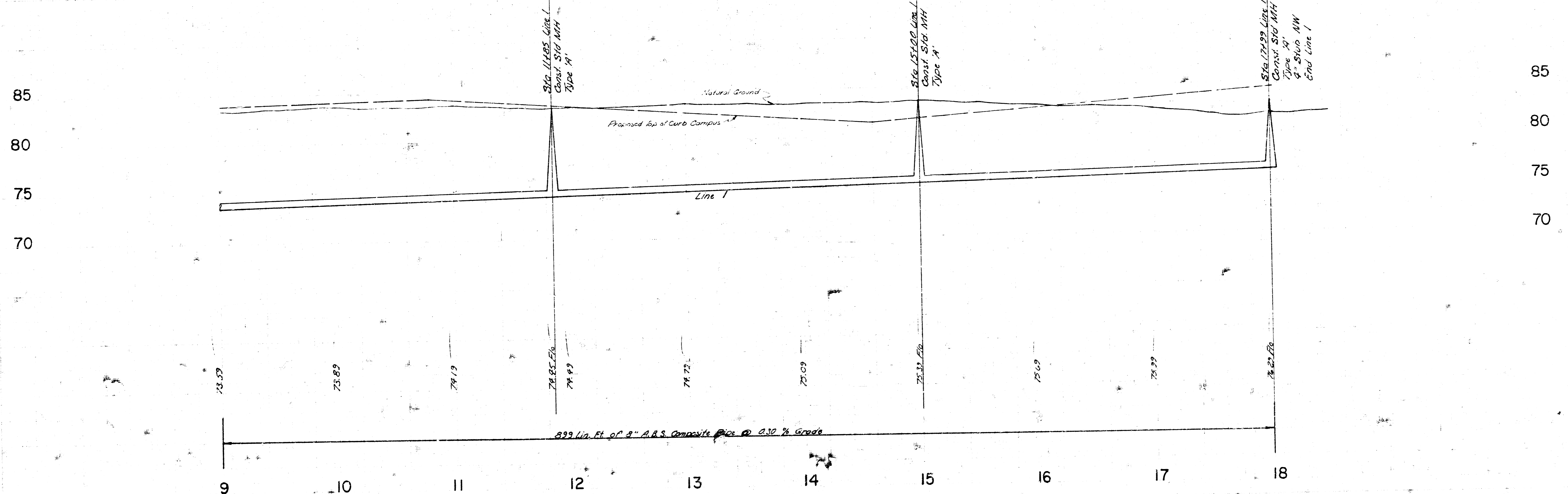
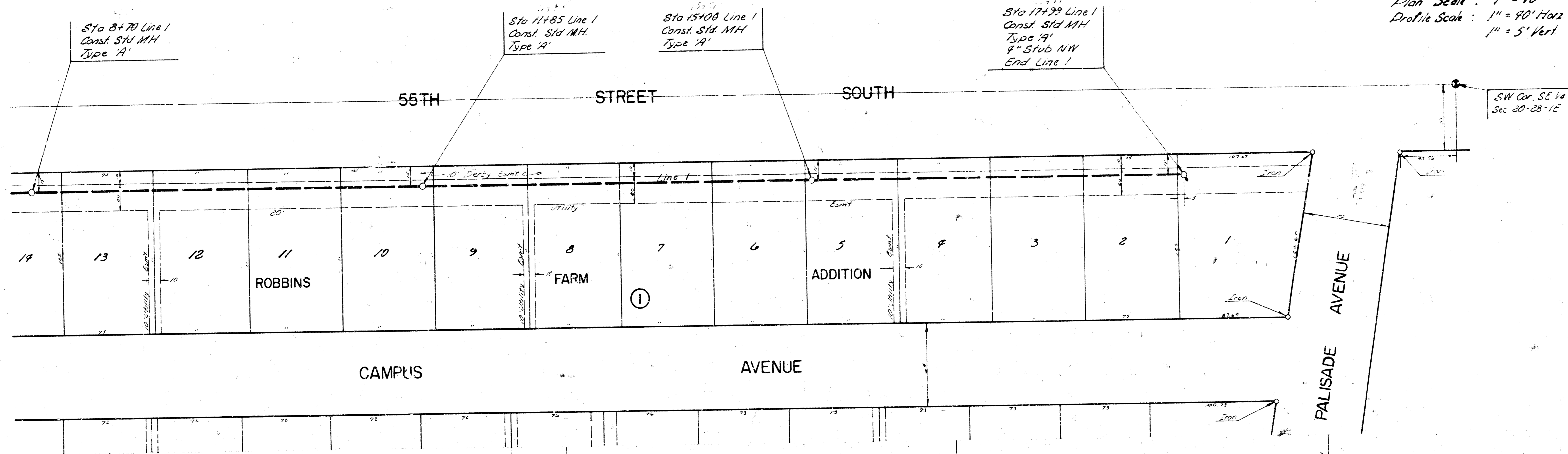
Plan Scale: 1" = 40'  
Profile Scale: 1" = 40' Horiz.  
1" = 5' Vert.



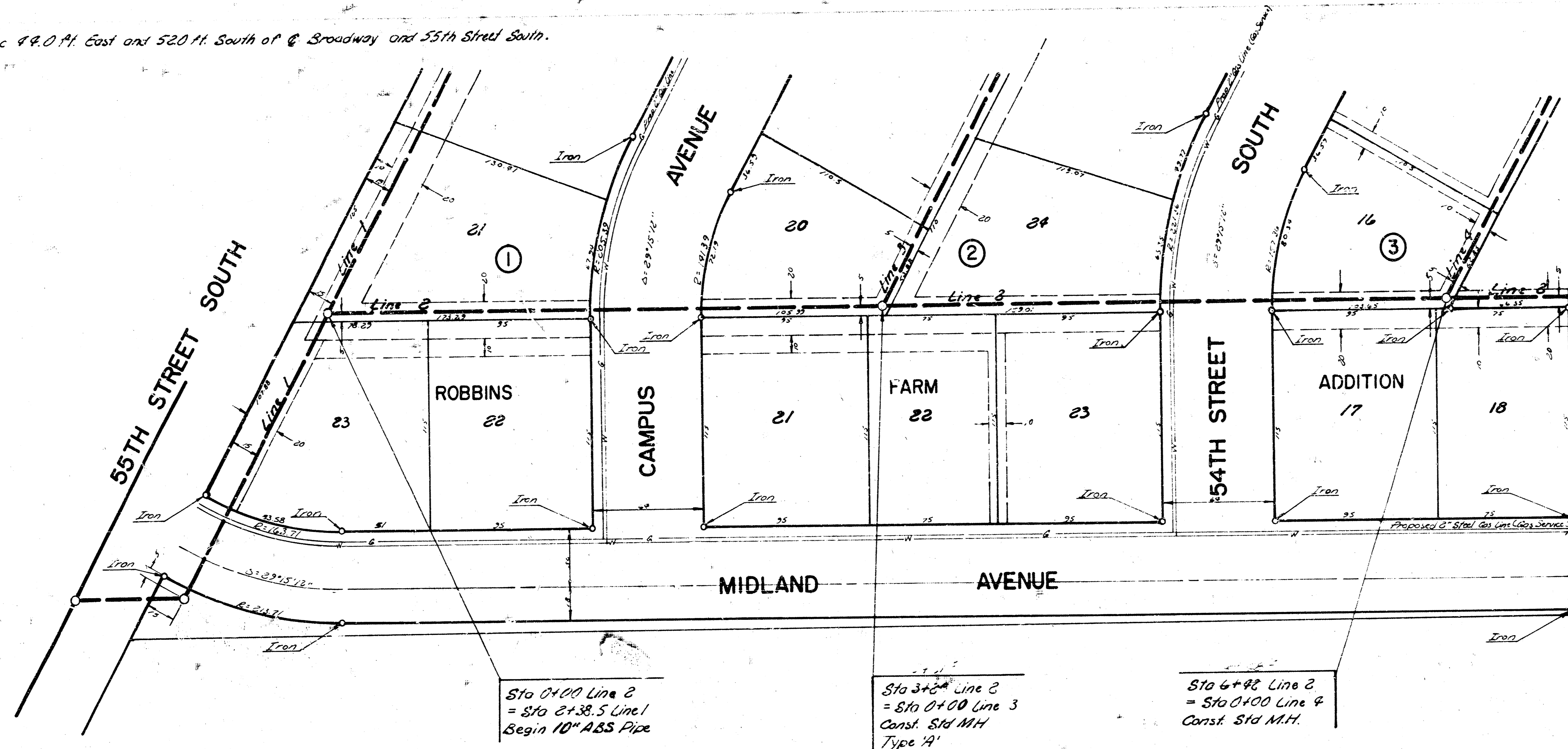
**LAT 127 SOUTHWEST INTERCEPTOR**  
CITY OF WICHITA, KANSAS  
R.W. LINN CITY ENGINEER  
PROJECT NUMBER: 468-76-245-80578-000 000-000  
DATE:

B.M. 83.58 City Std Disc 440 Ft. East and 520 Ft. South of E Broadway and 55th Street South.

Plan Scale : 1" = 40'  
 Profile Scale : 1" = 40' Horiz.  
 1" = 5' Vert.



B.M. 83.58 City Sid. Disc 44.0 Ft. East and 52.0 Ft. South of @ Broadway and 55th Street South.



Plan Scale: 1" = 20'  
 Profile Scale: 1" = 40' Horz.  
 1" = 5' Vert.

Sta 7+16 Line 2  
 End Pipe & Plug

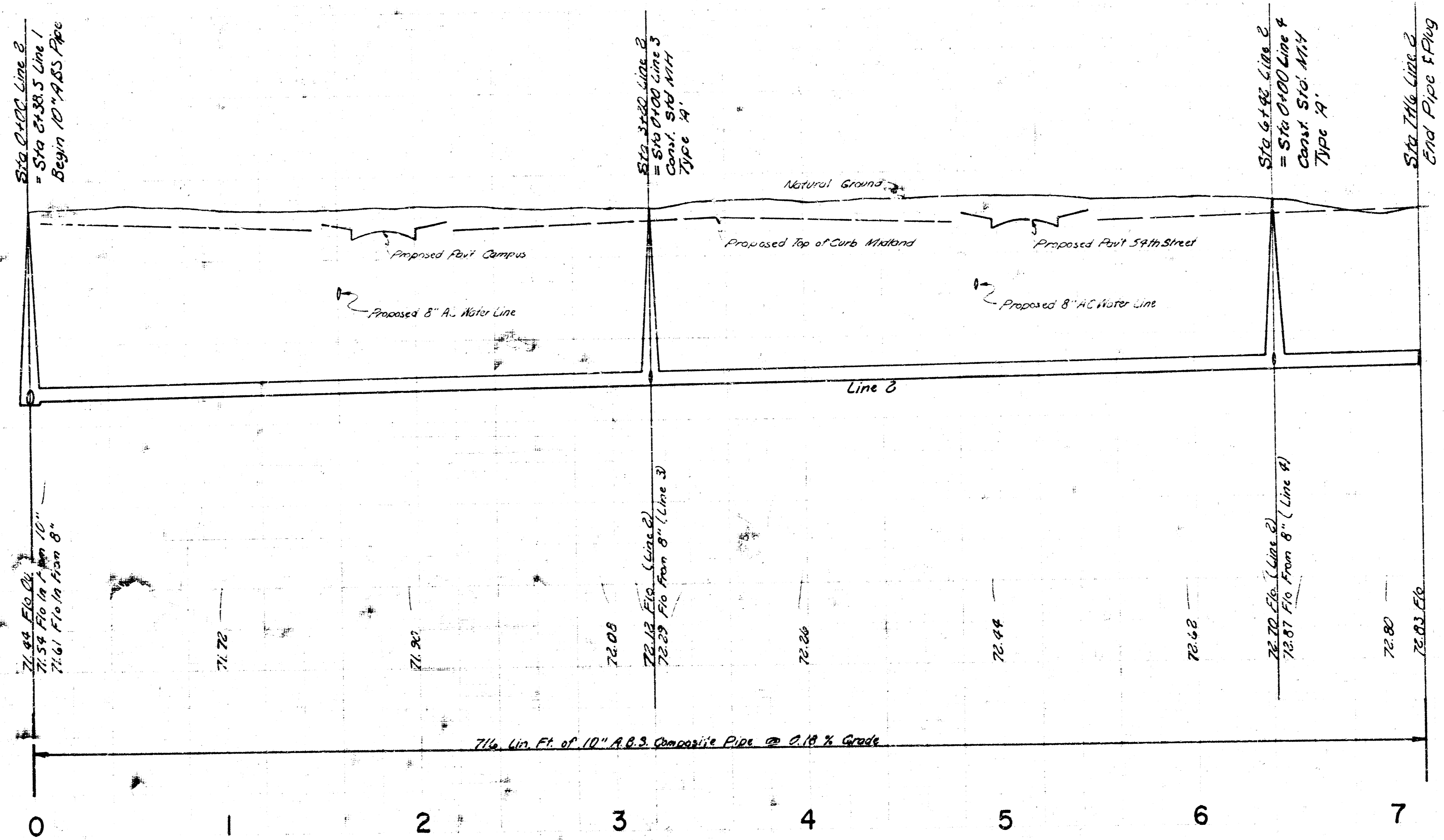
Sta 0+00 Line 2  
 = Sta 2+38.5 Line 1  
 Begin 10" A.B.S. Pipe

Sta 3+24 Line 2  
 = Sta 0+00 Line 3  
 Const. Std. M.H.  
 Type 'A'

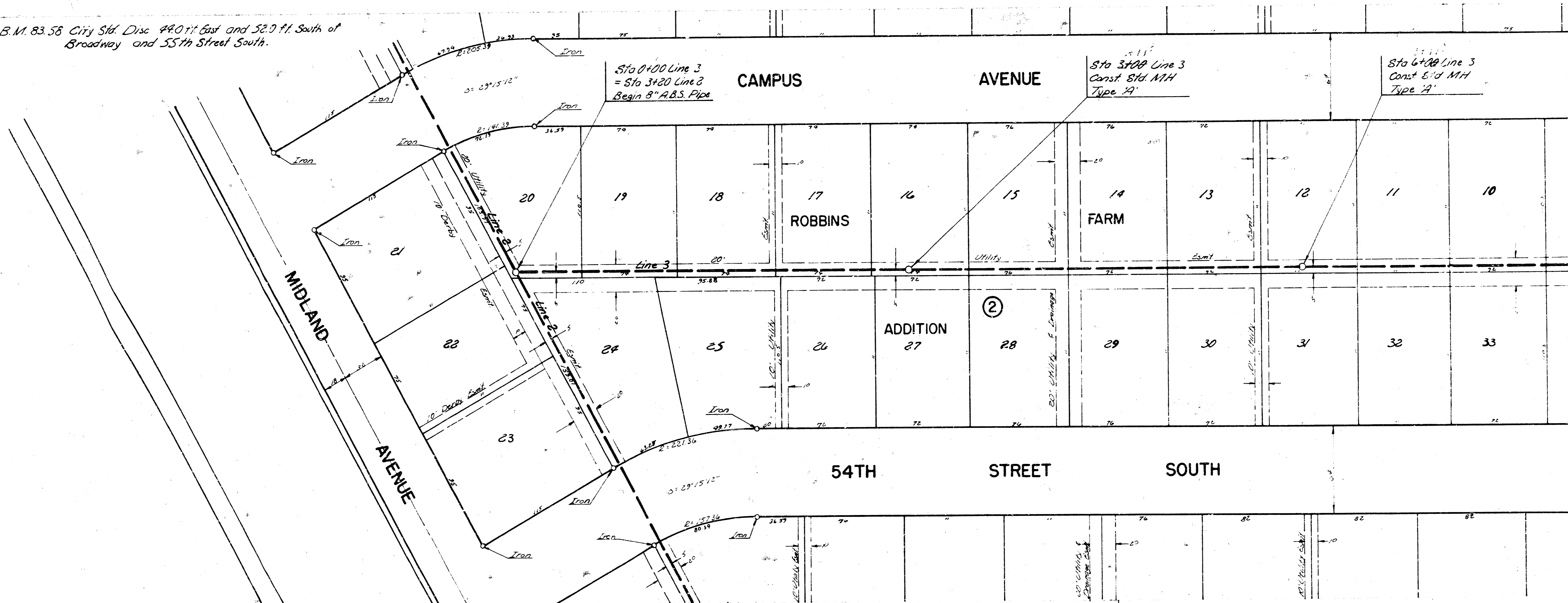
Sta 6+92 Line 2  
 = Sta 0+00 Line 4  
 Const. Std. M.H.

85  
80  
75  
70

85  
80  
75  
70

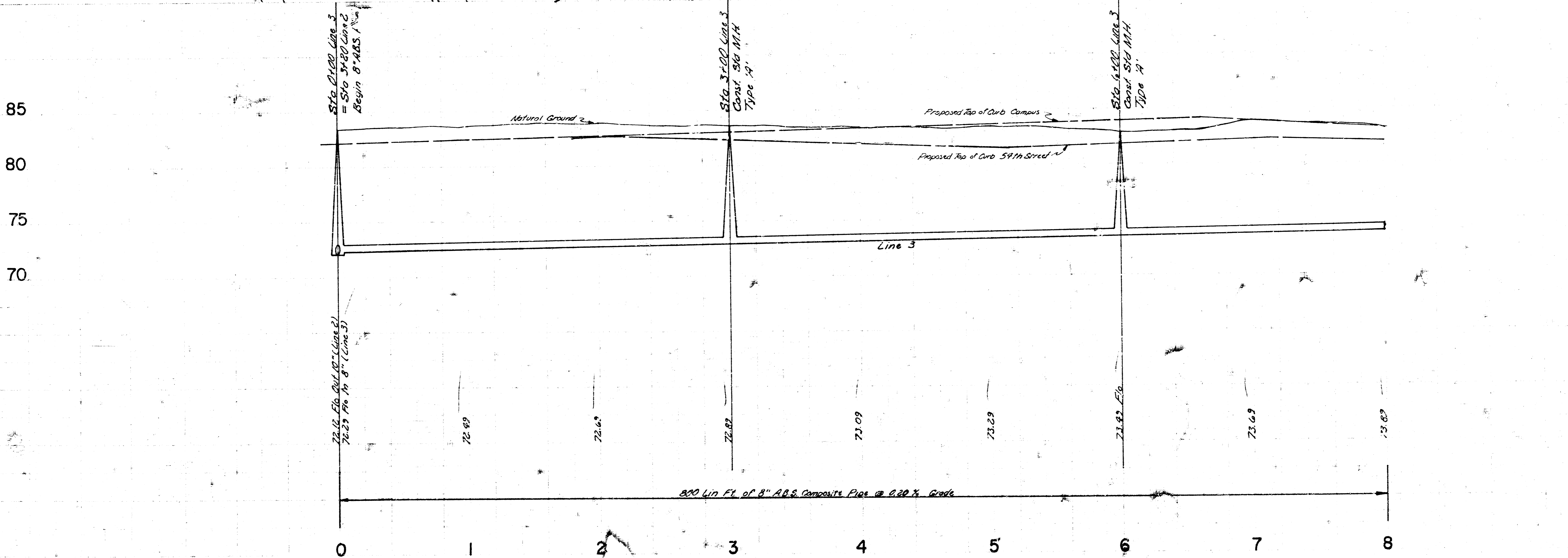


B.M. 83.58 City St. Disc 440 ft East and 52.9 ft South of  
Broadway and 55th Street South.



Plan Scale: 1" = 40'  
Profile Scale: 1" = 40' Vert.  
1" = 5' Vert.

PLAN

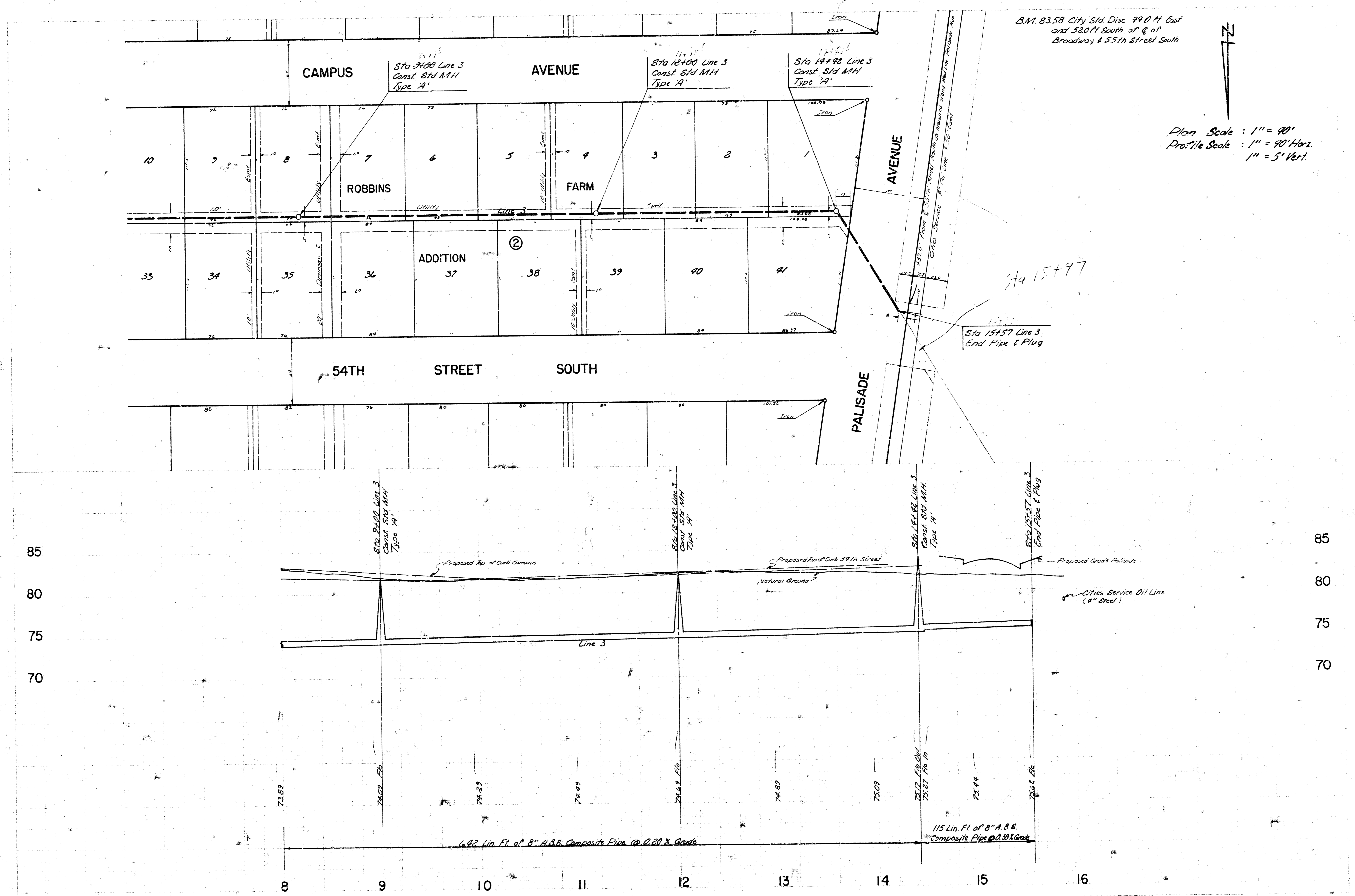


PROFILE

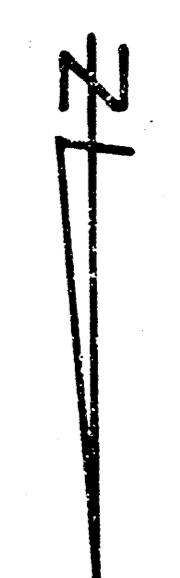
85  
80  
75  
70

0 1 2 3 4 5 6 7 8

800 Lin Ft. of 8" A.B.S. Composite Pipe @ 0.20% Grade



B.M. 83.58 City Std Disc 99.0 ft East  
and 520 ft South of Q. of  
Broadway & 55th Street South



Plan Scale : 1" = 40'  
Profile Scale : 1" = 40' Horiz.  
1" = 5' Vert.

Sta 15+77

Sta 15+57 Line 3  
End Pipe & Plug

Sta 14+92 Line 3  
Const. Std MH  
Type 'A'

Sta 12+00 Line 3  
Const. Std MH  
Type 'A'

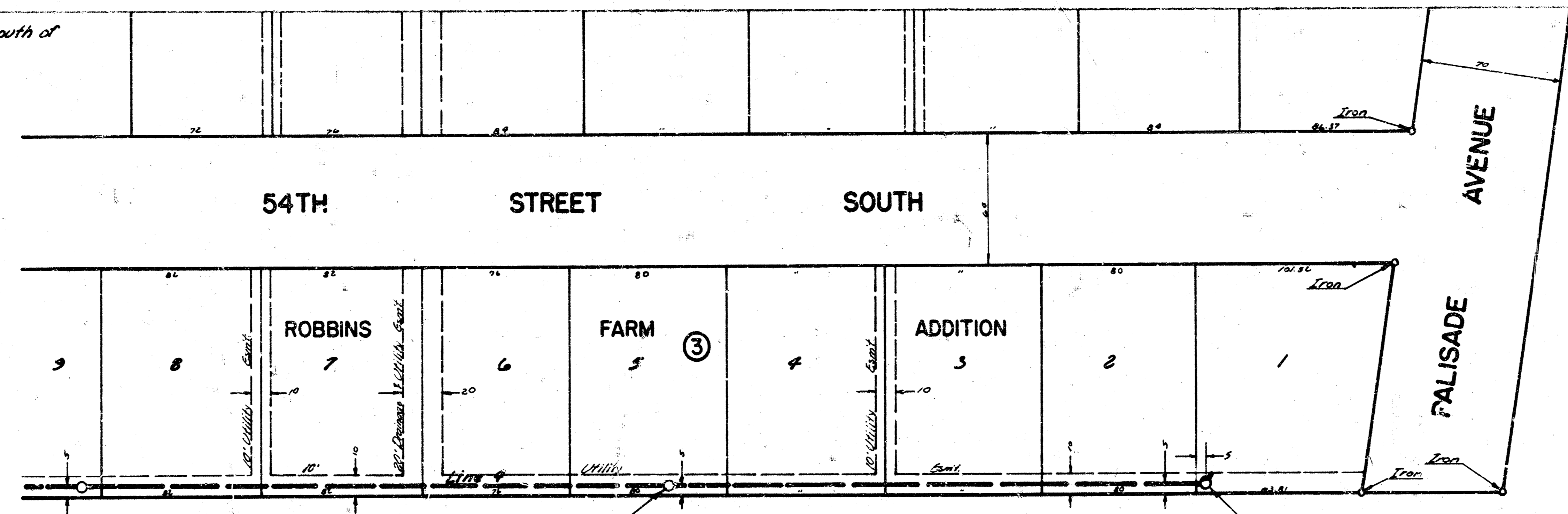
Sta 9+00 Line 3  
Const. Std MH  
Type 'A'

115 Lin. Ft. of 8" A.B.S.  
Composite Pipe @ 0.20% Grade

692 Lin. Ft. of 8" A.B.S. Composite Pipe @ 0.20% Grade



B.M. 83.58 City Std. Disc. 44.11 East and 52.11 South of  
 of Broadway & 55th Street South.

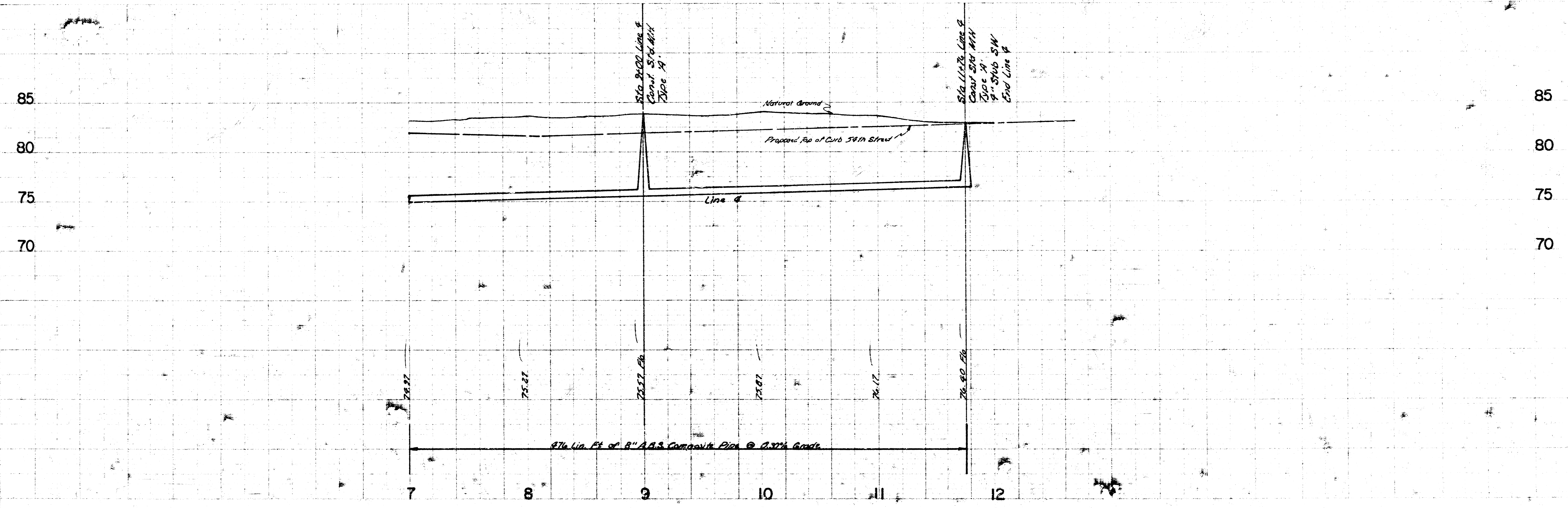


Plan Scale : 1" = 90'  
 Profile Scale : 1" = 90' Hor.  
 1" = 5' Vert.

Sta 9+00 Line 4  
 Const. Std. M.H.  
 Type A'

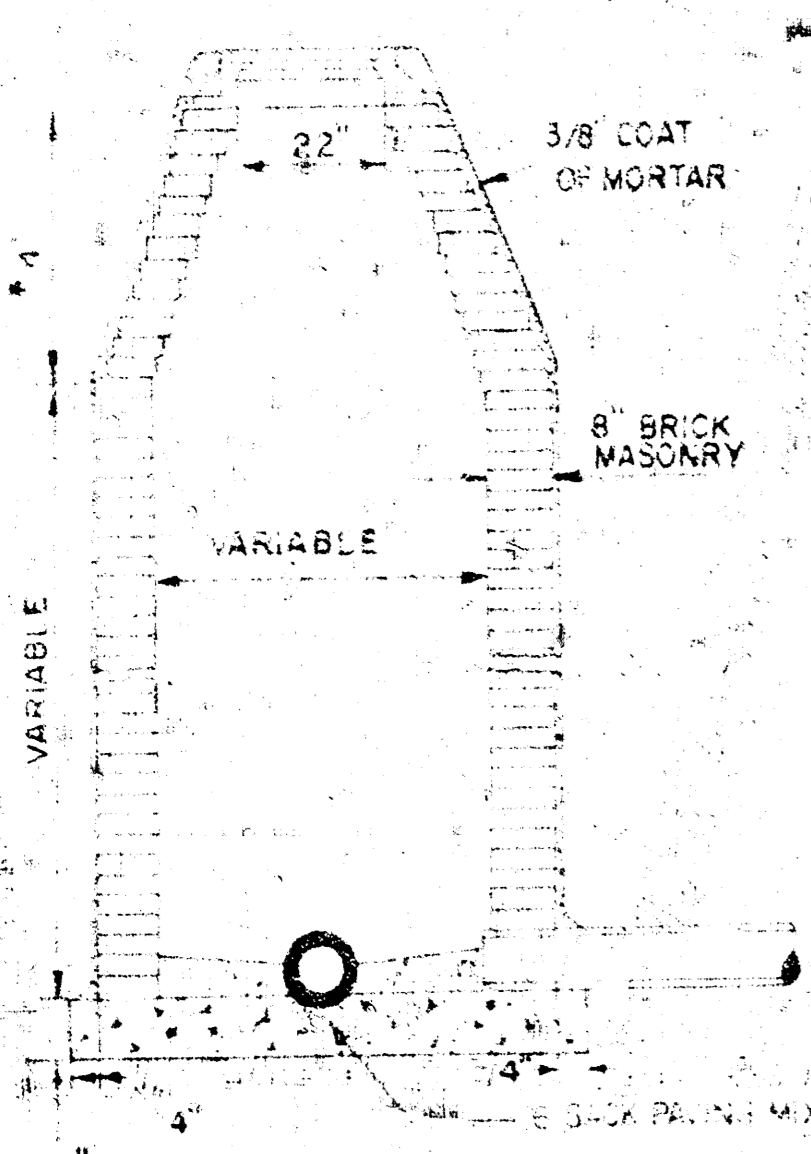
Sta 11+76 Line 4  
 Const. Std. M.H.  
 Type A'  
 8" Stub SW & N.W.  
 End Line 4

PLAN

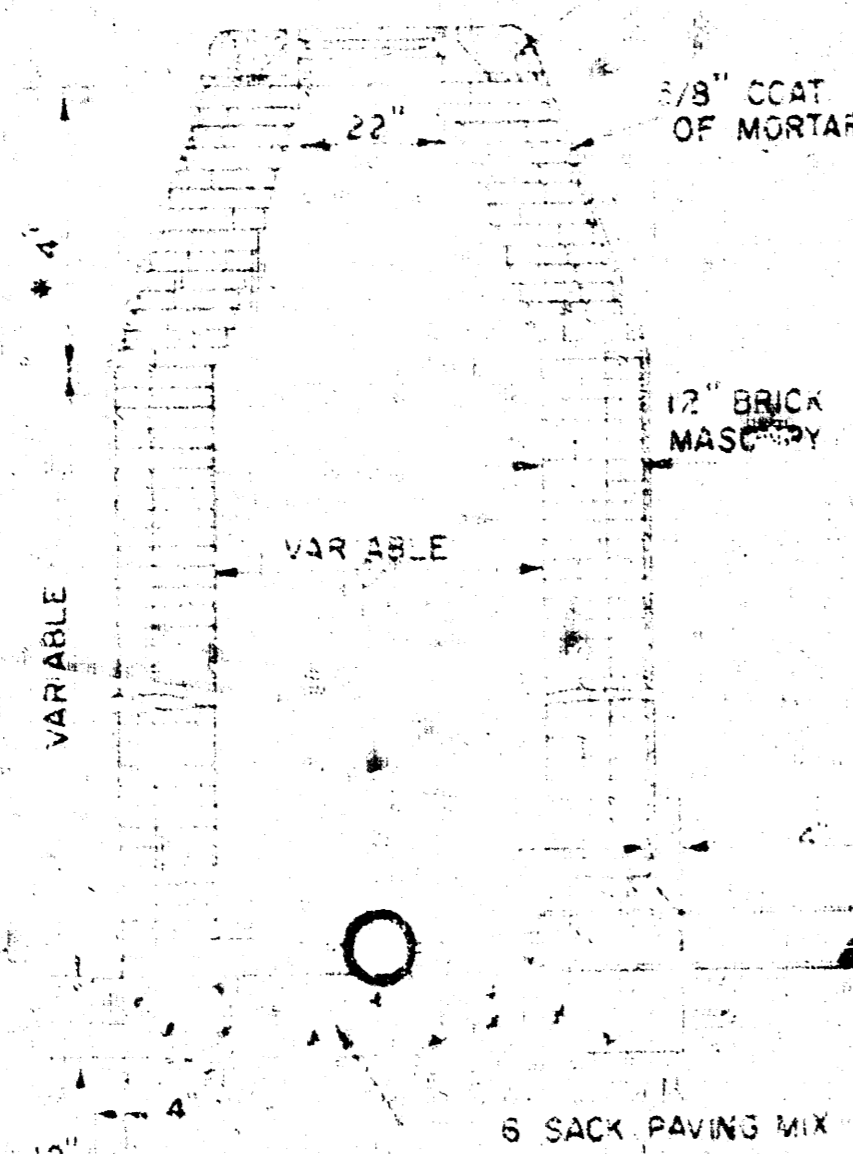


PROFILE

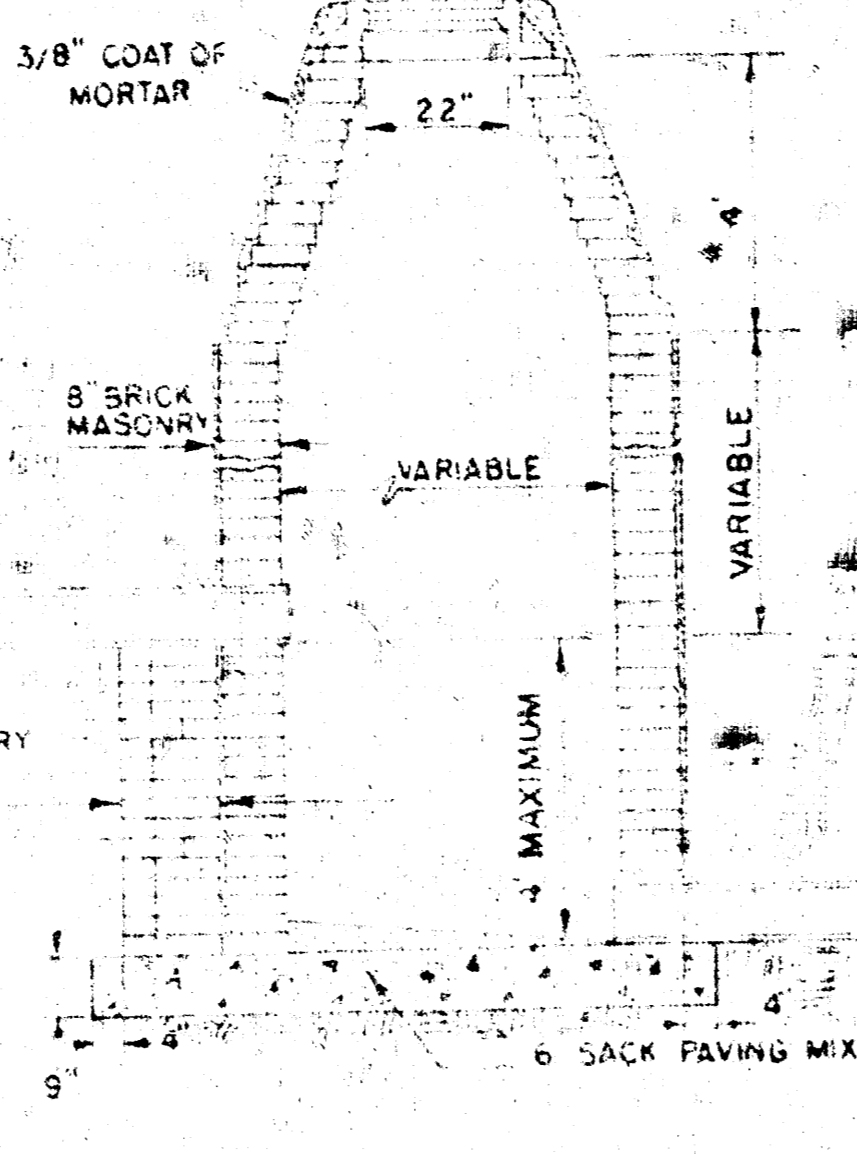
GRAVEL TO BE PLACED AROUND MANHOLE RING ONLY WHEN MANHOLE IS CONSTRUCTED IN UNPAVED AREAS (TYPICAL ALL MANHOLES)



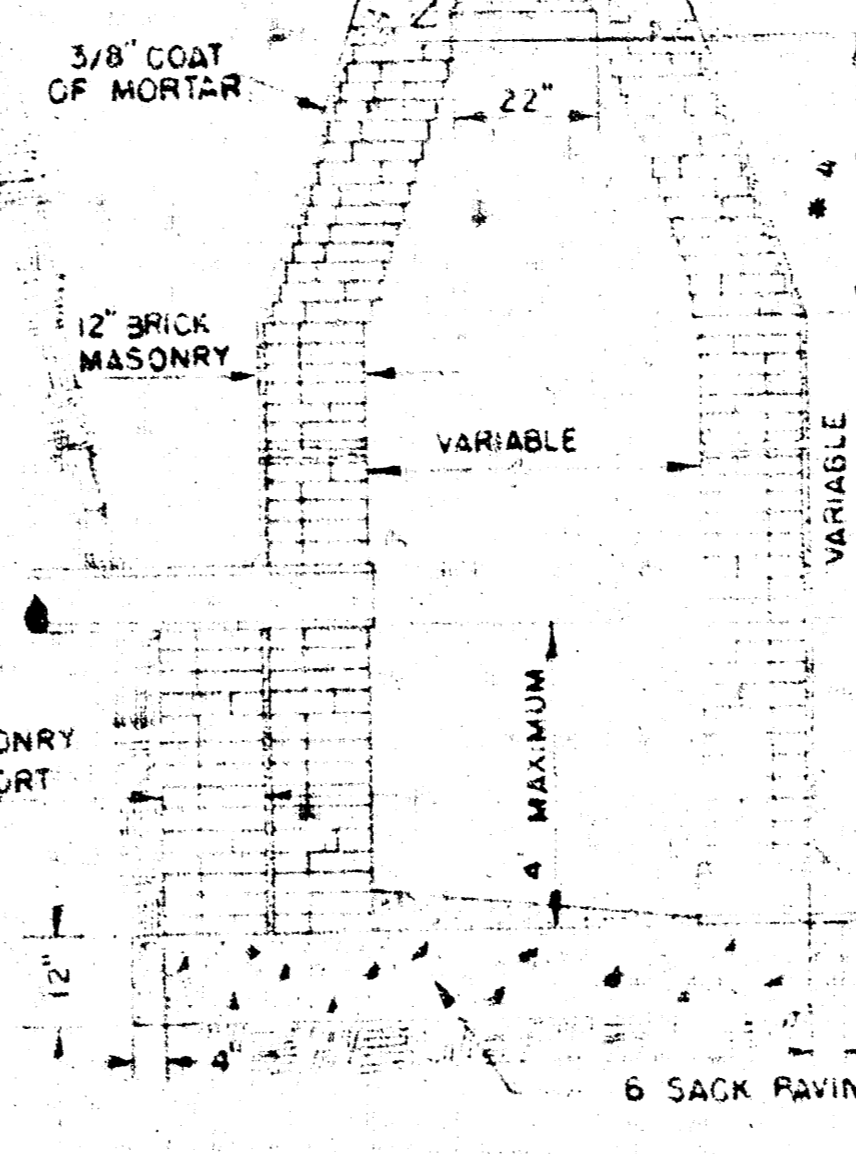
STANDARD MANHOLE TYPE "A"



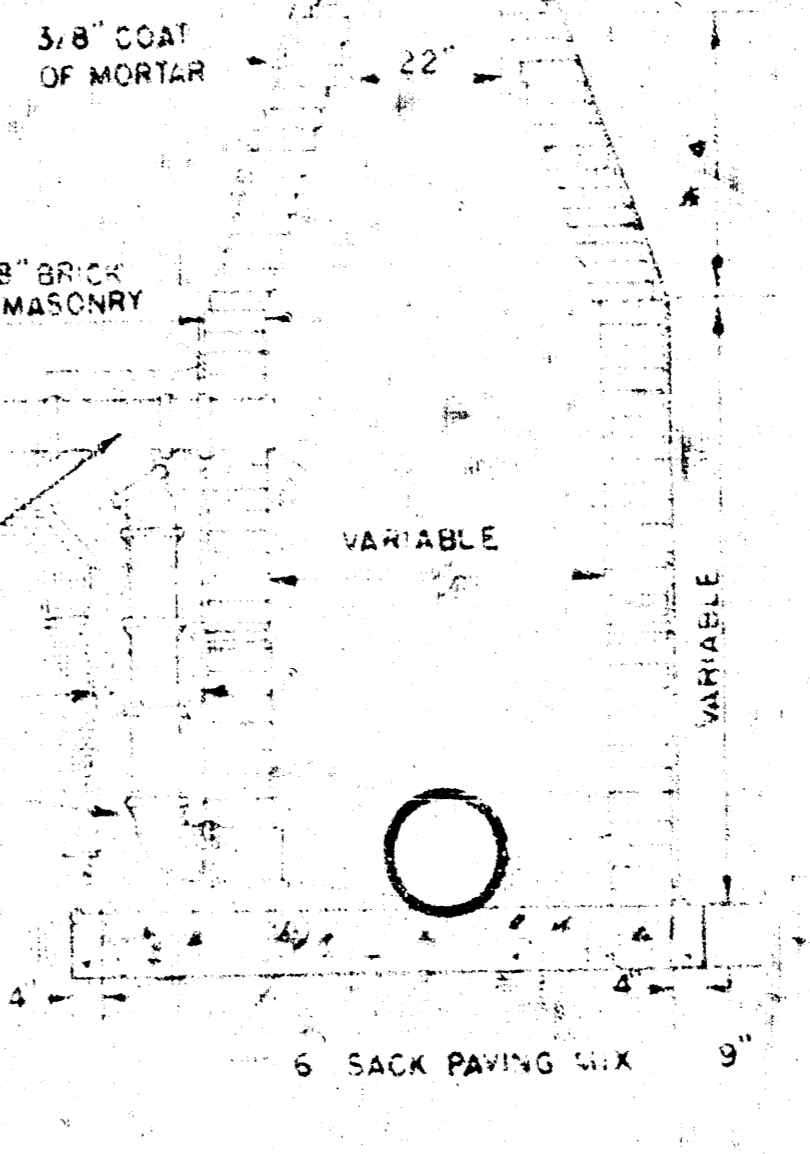
STANDARD MANHOLE TYPE "B"



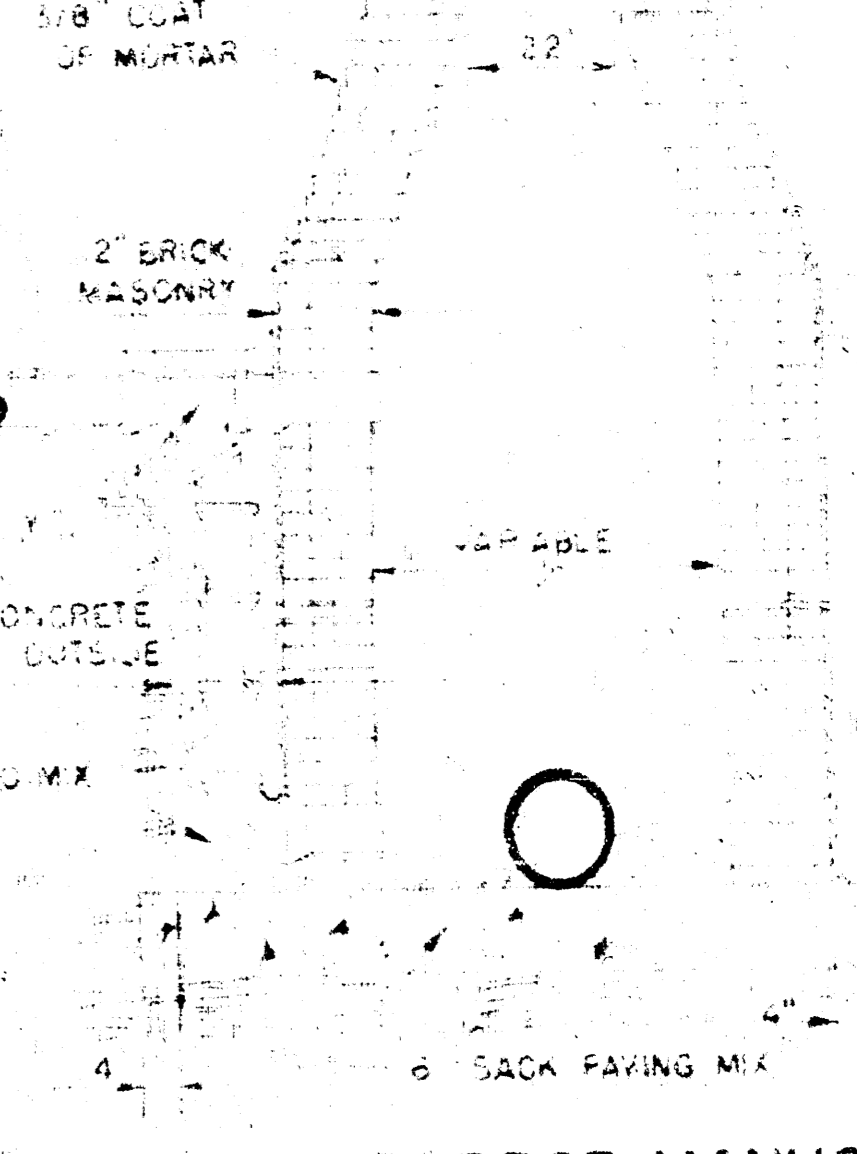
DROP MANHOLE TYPE "A"



DROP MANHOLE TYPE "B"



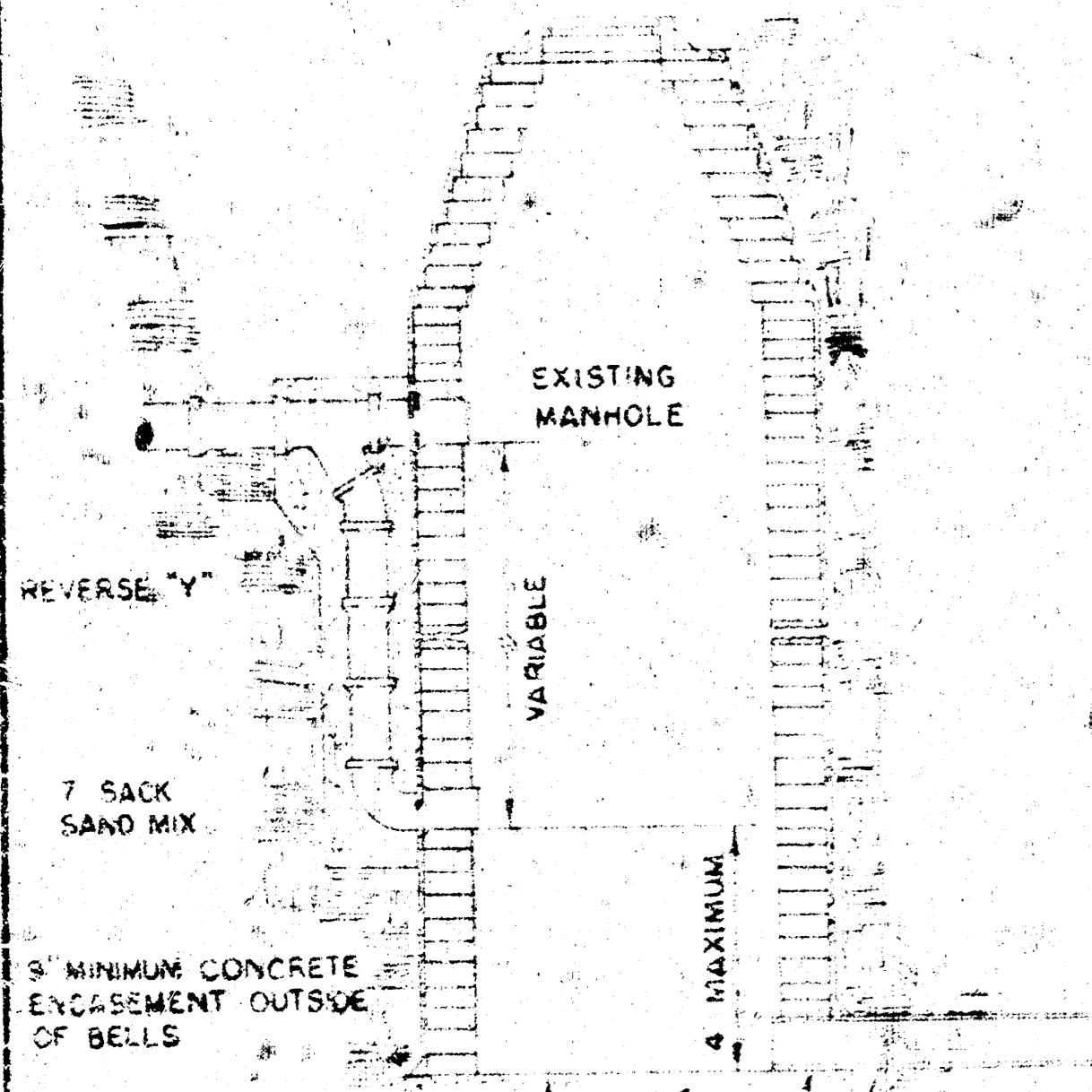
OUTSIDE DROP MANHOLE TYPE "A"



OUTSIDE DROP MANHOLE TYPE "B"

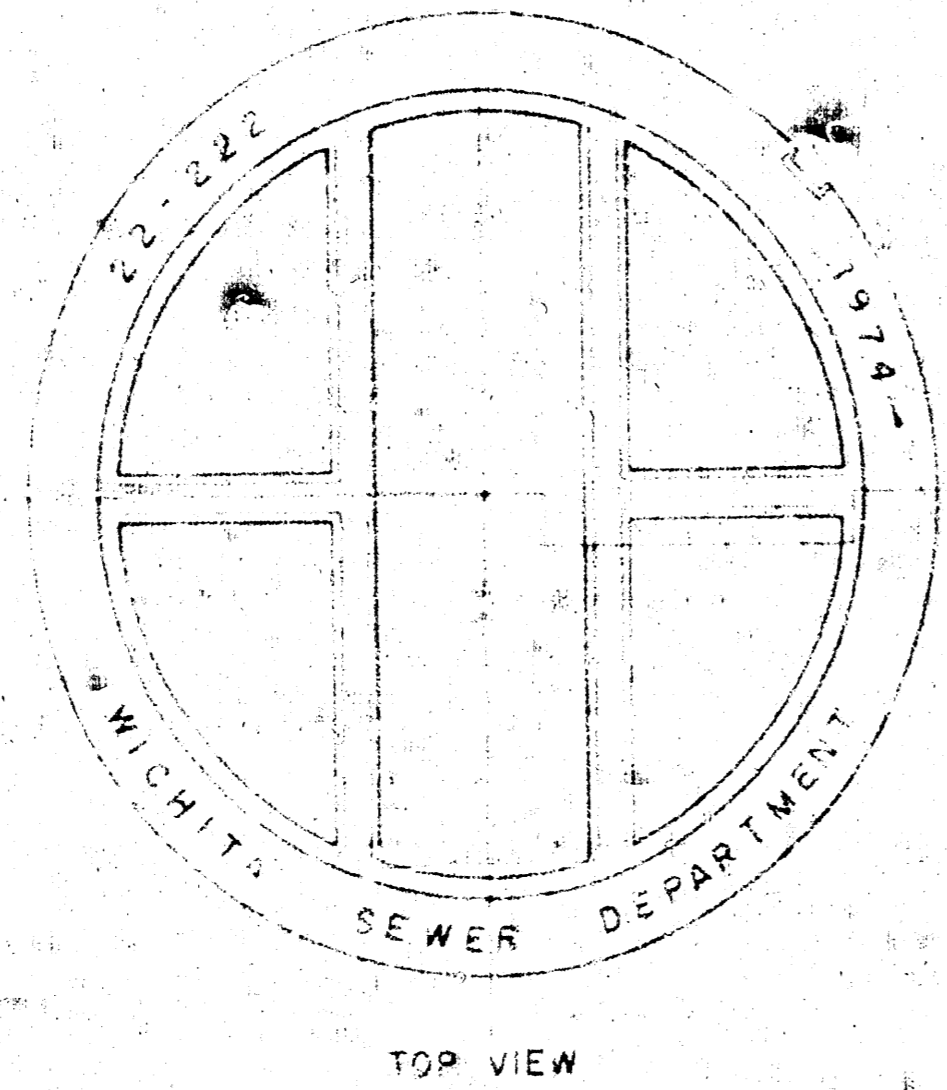
DRAW = 6' ON 5' DIA. M.H.

NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.

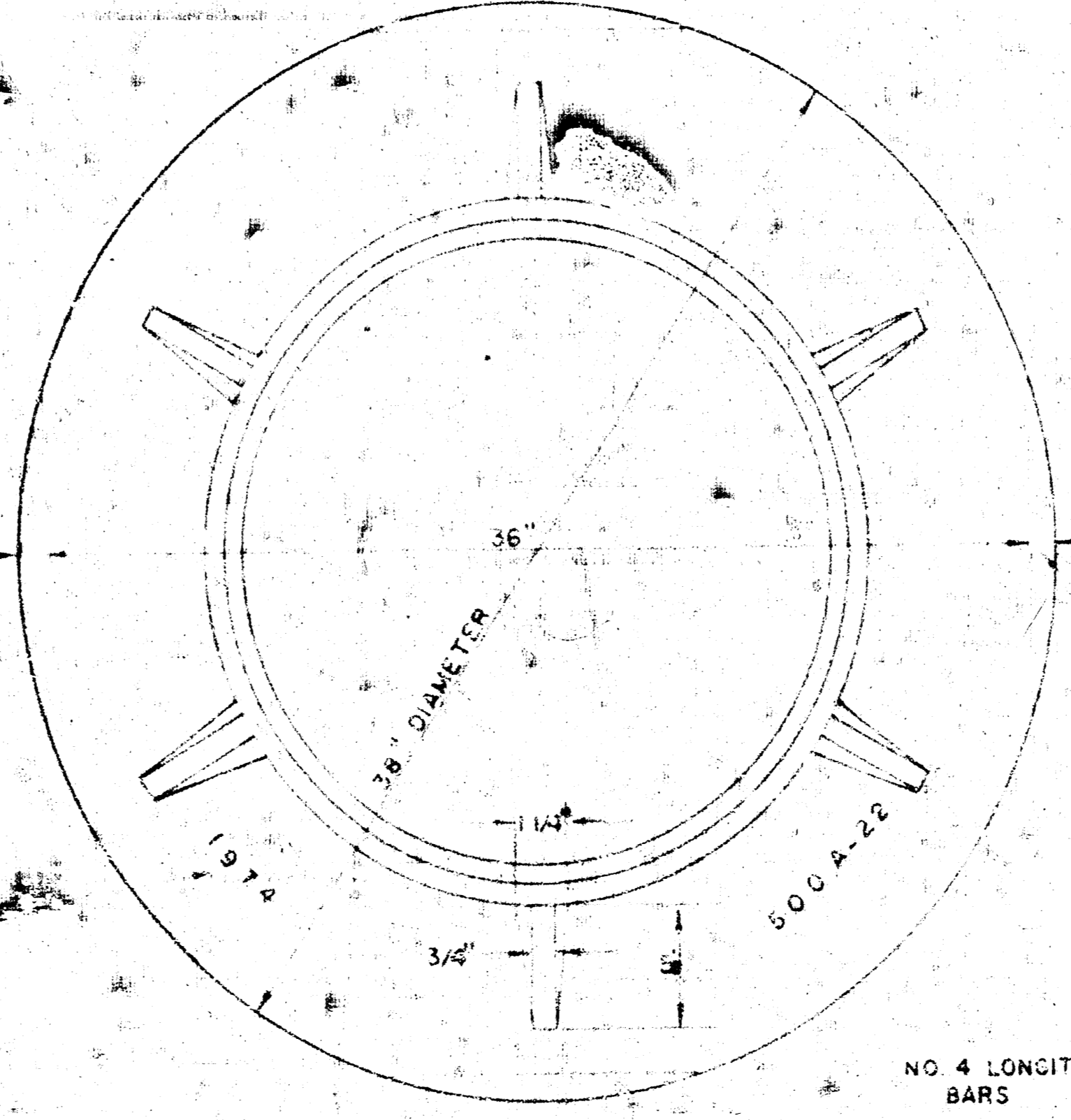


DETAIL OF DROP STACK

FOR EXISTING MANHOLES IN GROUND WATER

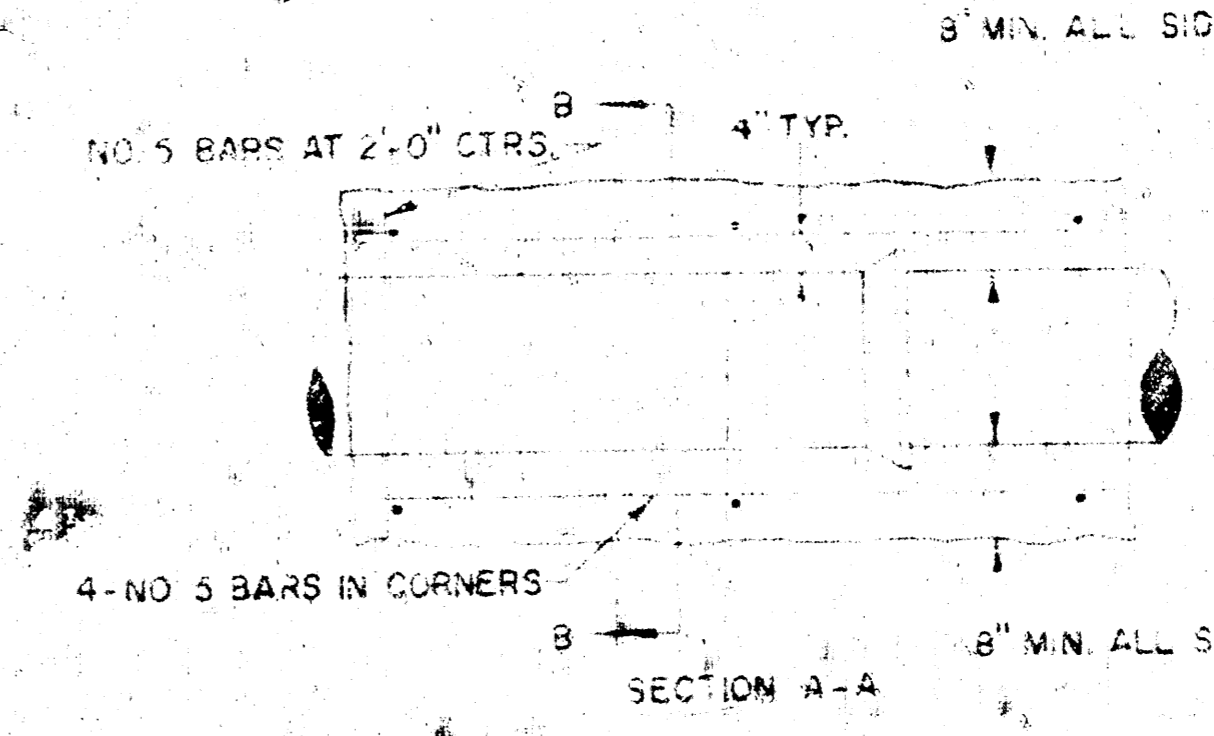


MANHOLE COVER



MANHOLE RING

WEIGHT 325 LBS RING NO. 500A  
WEIGHT 800 LBS RING NO. 500AS

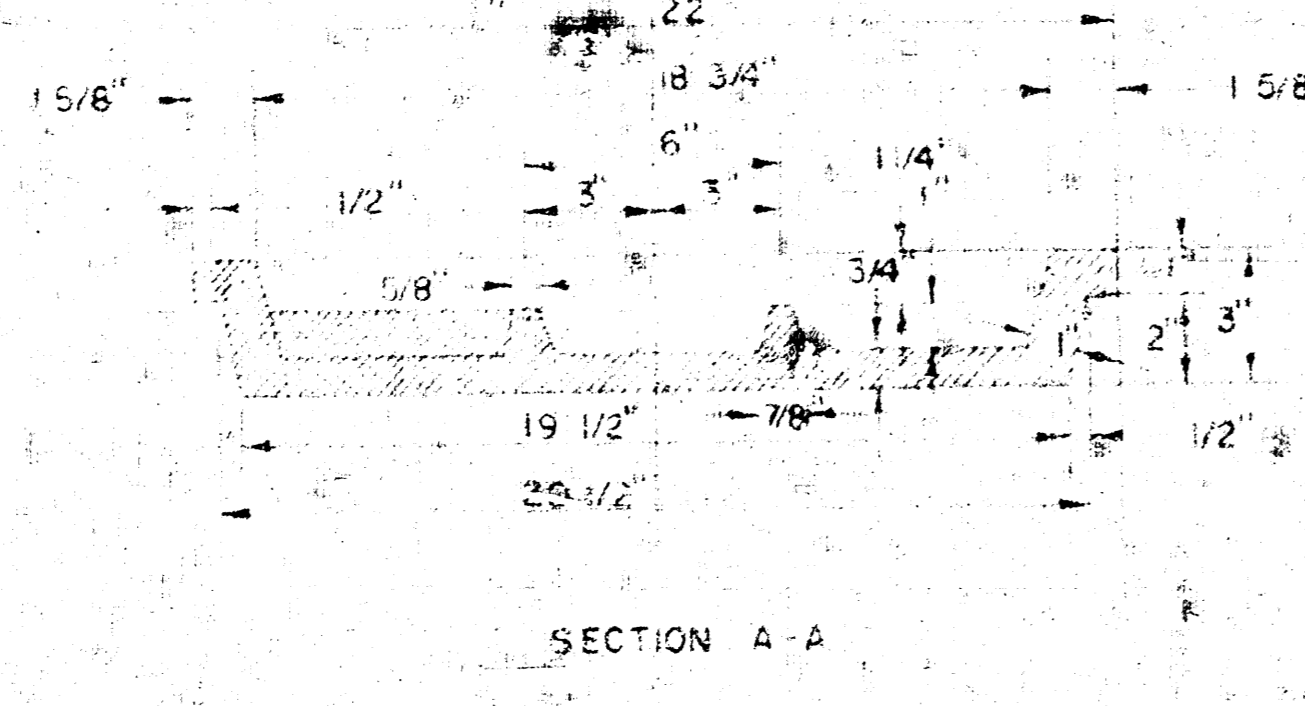


REINFORCED CONCRETE ENCASEMENT

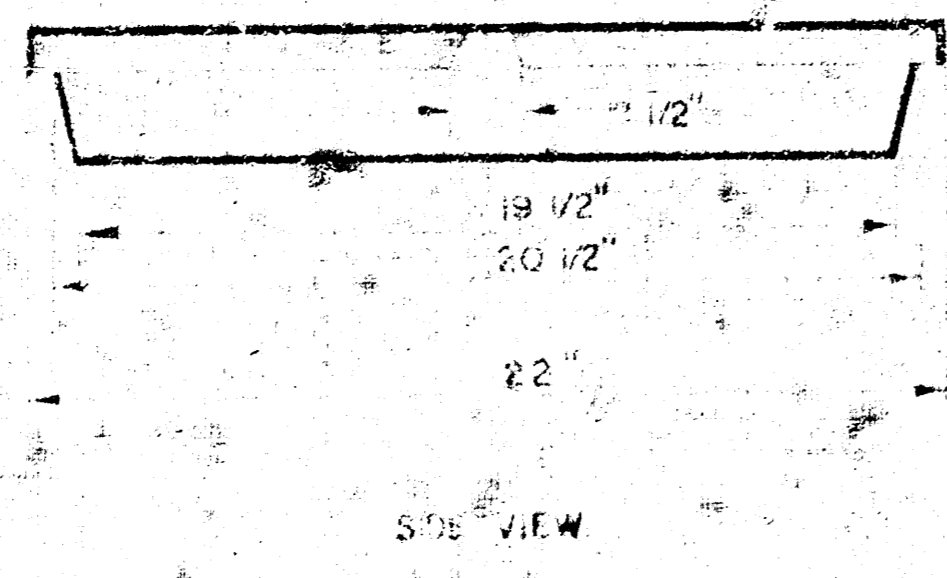


GENERAL NOTES

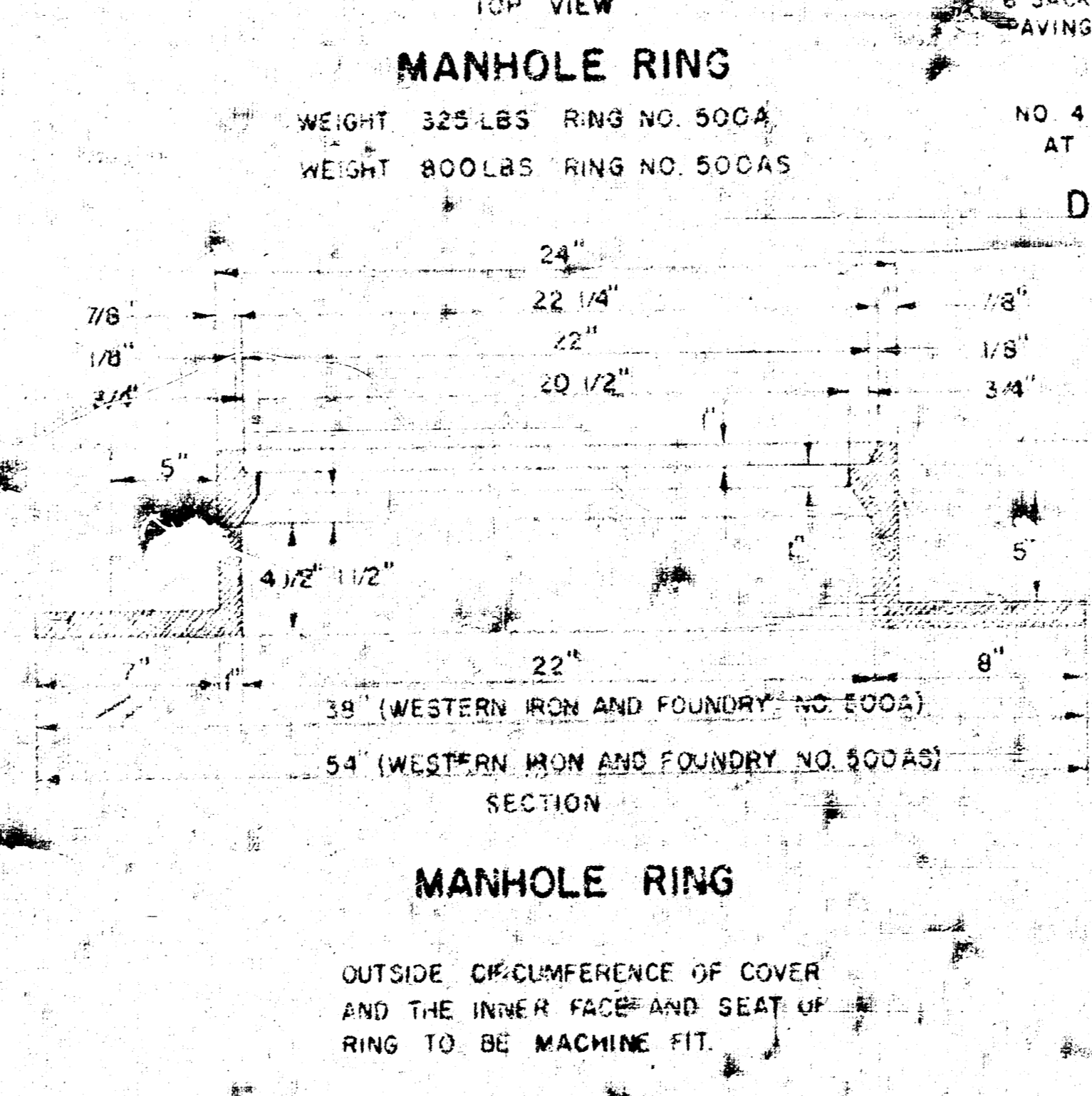
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE A OR TYPE B AND STANDARD DROP MANHOLES TYPE A OR TYPE B SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.
- OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED.
- ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
- MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 7 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CHADDED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF GRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



MANHOLE COVER

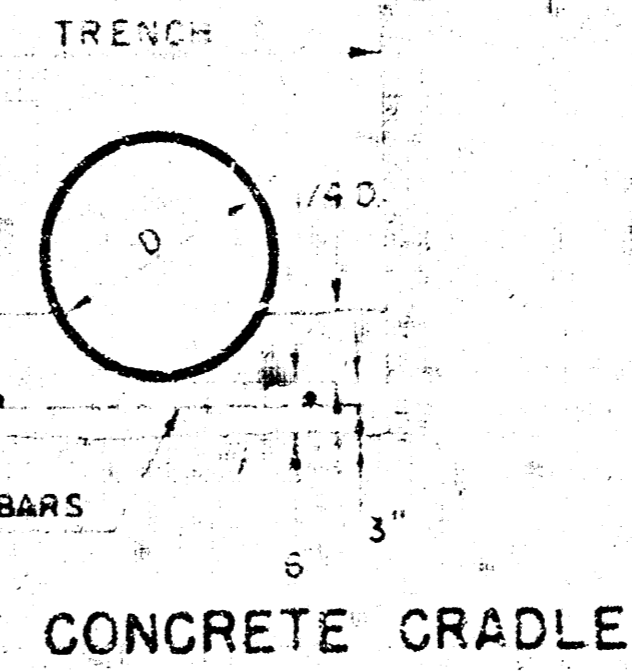


MANHOLE COVER



MANHOLE RING

OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.

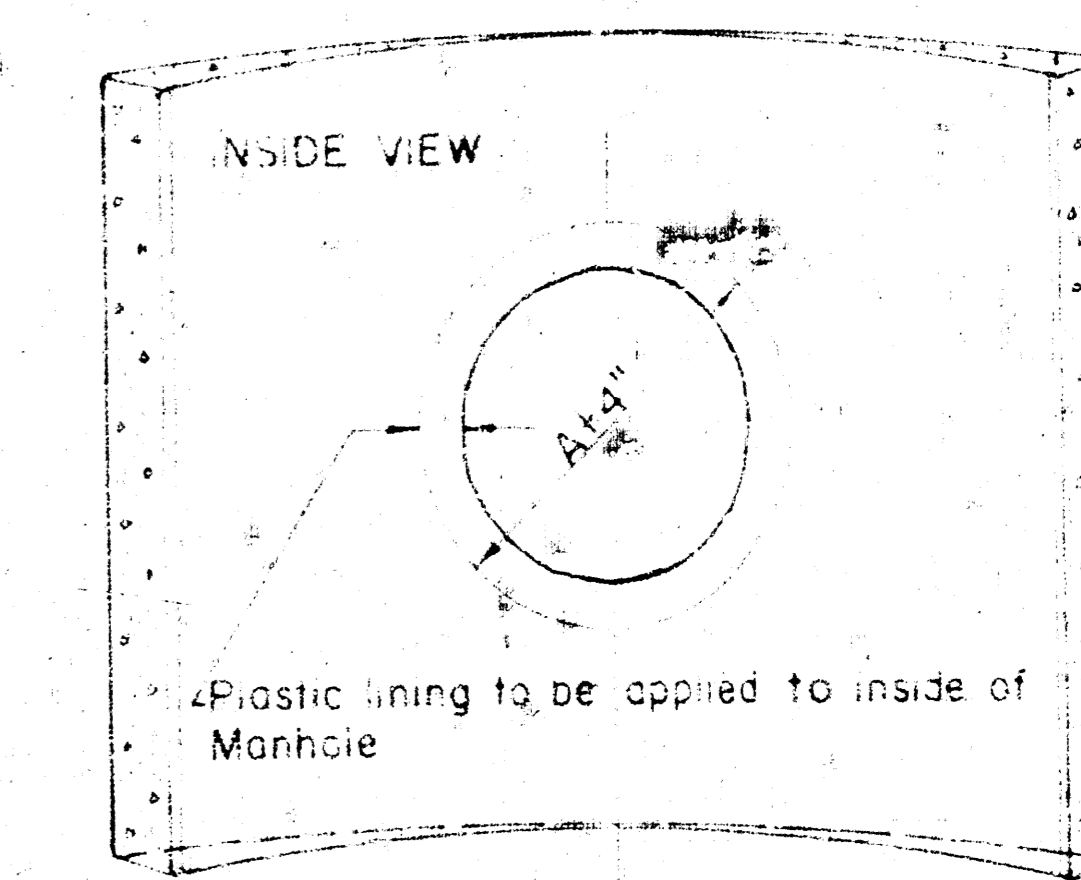
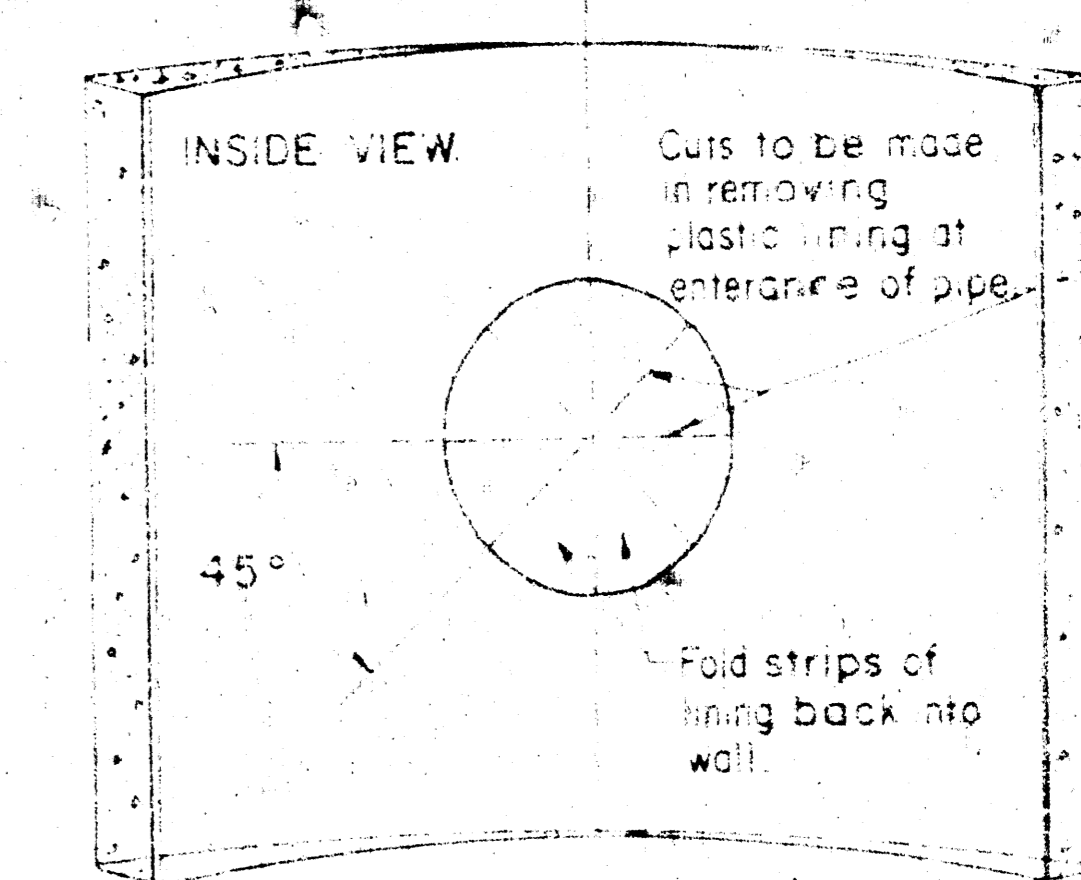
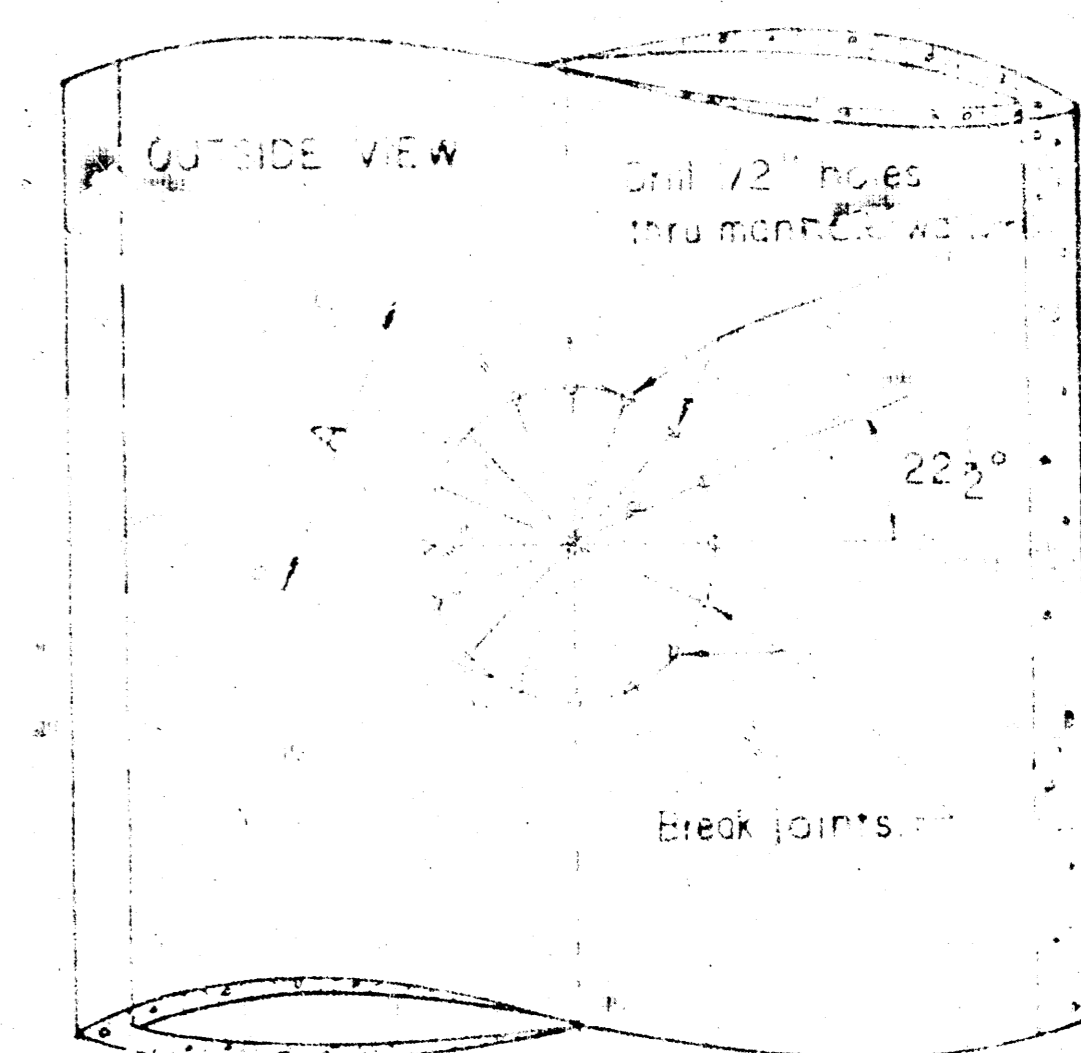
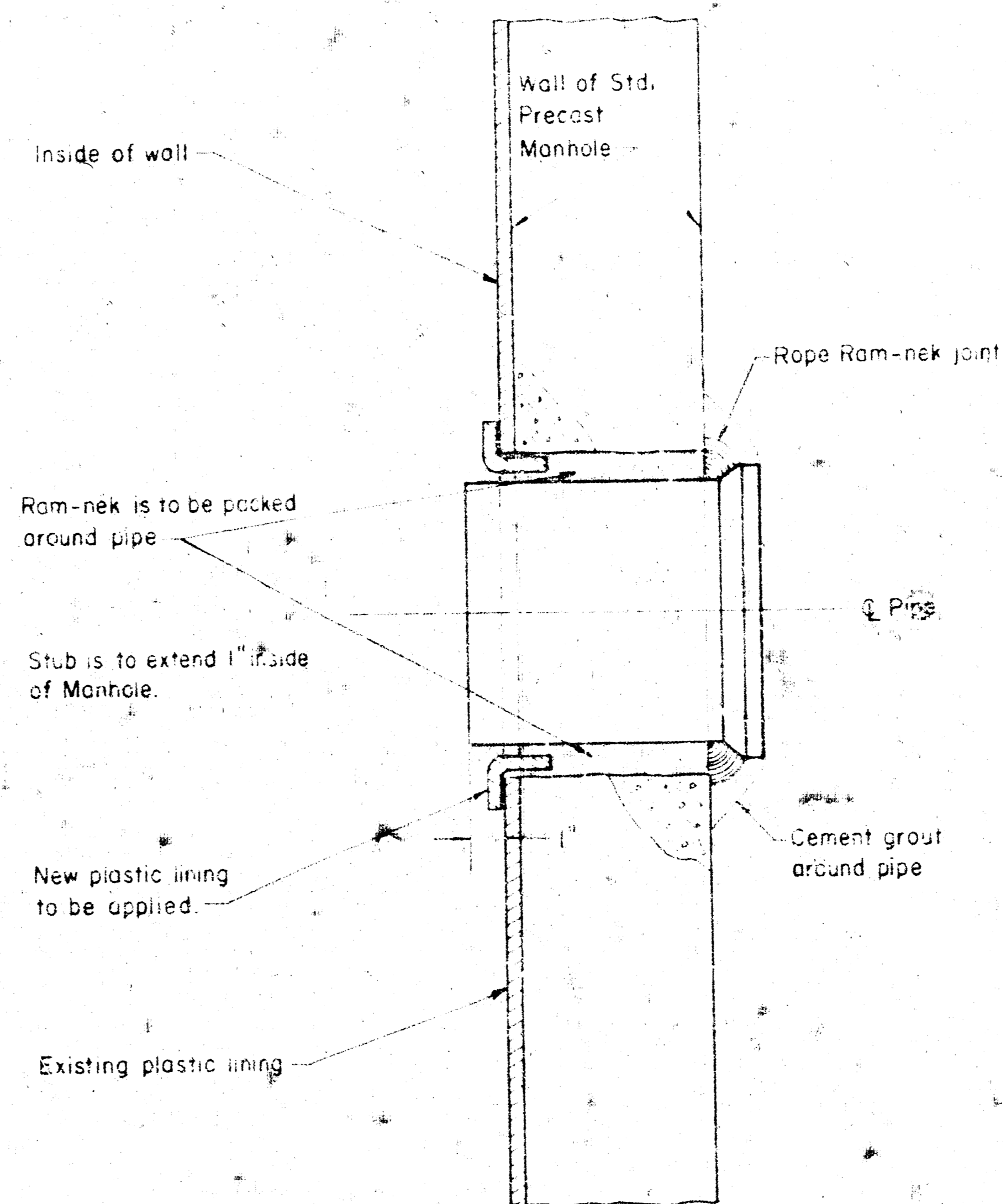


DETAIL OF CONCRETE GRADE

ORDINARY BEDDING METHOD  
STORM SEWER PIPE

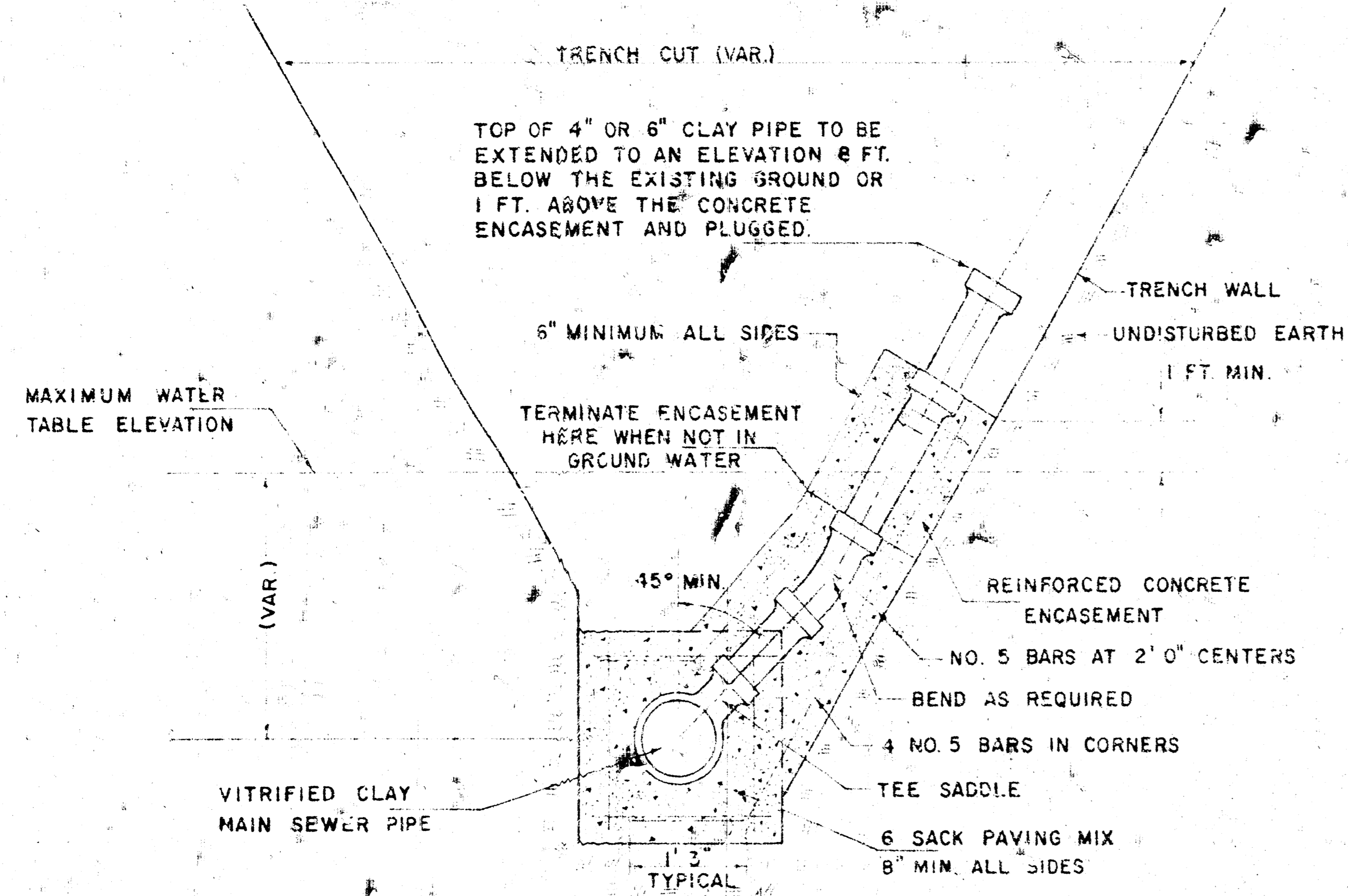
REVISED 4-13-77

DETAILS OF  
**SEWER APPURTENANCES**  
ADOPTED AS STANDARD DESIGN  
BY  
ENGINEERING DIVISION  
CITY OF WICHITA, KANSAS  
R. W. LINN CITY ENGINEER  
1974



A = OUTSIDE DIAMETER OF PIPE + 2"

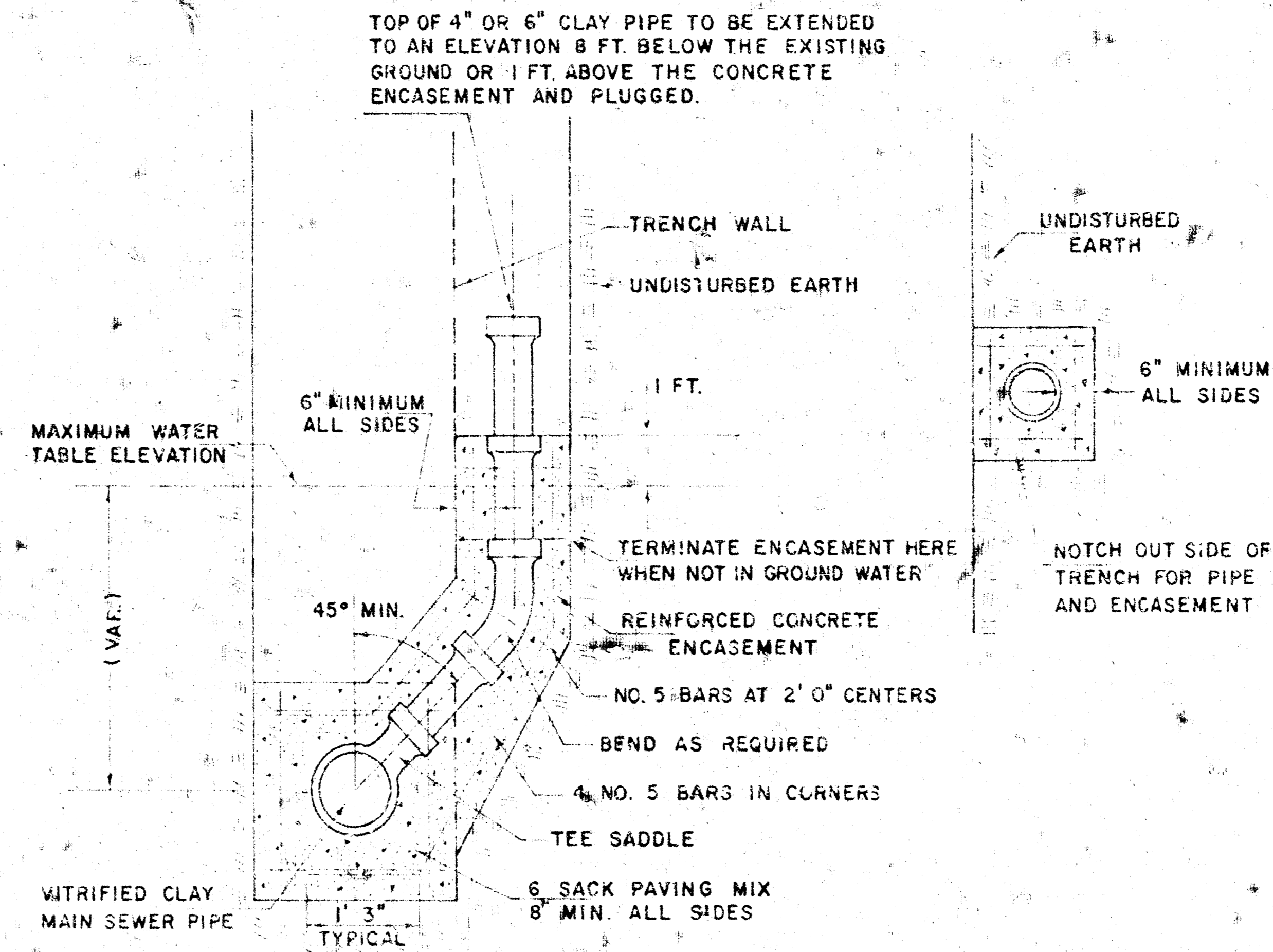
DRAWN: Oct. 1978  
 DETAIL OF PIPE CONNECTION  
 TO STRUCTURAL TEE MANHOLE  
 CITY OF WICHITA, KANSAS  
 R.W. LINN CITY ENGINEER  
 PROJECT NUMBER:  
 DATE:



DETAIL FOR VERTICAL RISER  
VITRIFIED CLAY PIPE  
SLOPING TRENCH WALLS  
(TYPICAL LEFT OR RIGHT)

**GENERAL NOTES (CLAY PIPE RISER)**

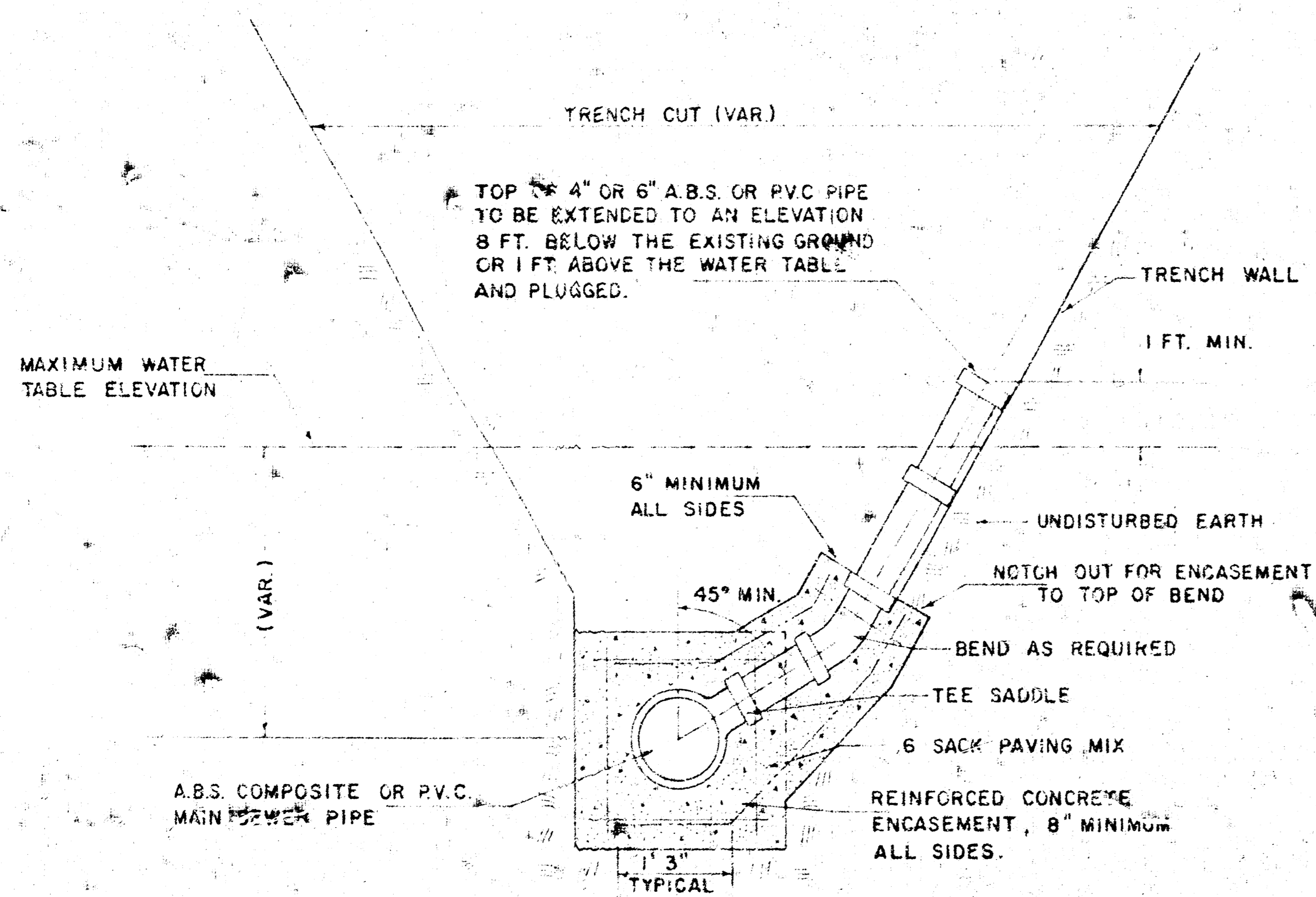
RISERS SHALL BE INSTALLED TO SERVE ALL PROPERTY WHICH IS PRESENTLY DEVELOPED WHEN THE MAIN SEWER LINE IS IN GROUND WATER OR WHEN THE MAIN SEWER LINE IS DEEPER THAN 8 FEET. RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH RISERS SHALL BE INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY AND FOUR INCH RISERS SHALL BE INSTALLED TO SERVE RESIDENTIAL PROPERTY. LOCATION OF RISERS TO SERVE DEVELOPED PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. STUBS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PROVIDE SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER OR AS SHOWN BY THE PLANS. ENCASMENT OF VITRIFIED CLAY MAIN SEWER PIPE SHALL EXTEND TO THE FIRST JOINT IN THE MAIN SEWER PIPE ON EACH SIDE OF THE RISER INSTALLATION. ENCASMENT OF 4" OR 6" VITRIFIED CLAY RISER PIPE SHALL EXTEND TO THE FIRST JOINT WHICH IS 1 FOOT OR MORE ABOVE THE MAXIMUM WATER TABLE ELEVATION.



DETAIL FOR VERTICAL RISER  
VITRIFIED CLAY PIPE  
VERTICAL TRENCH WALLS  
(TYPICAL LEFT OR RIGHT)

**GENERAL NOTES (CLAY PIPE RISER CONTINUED)**

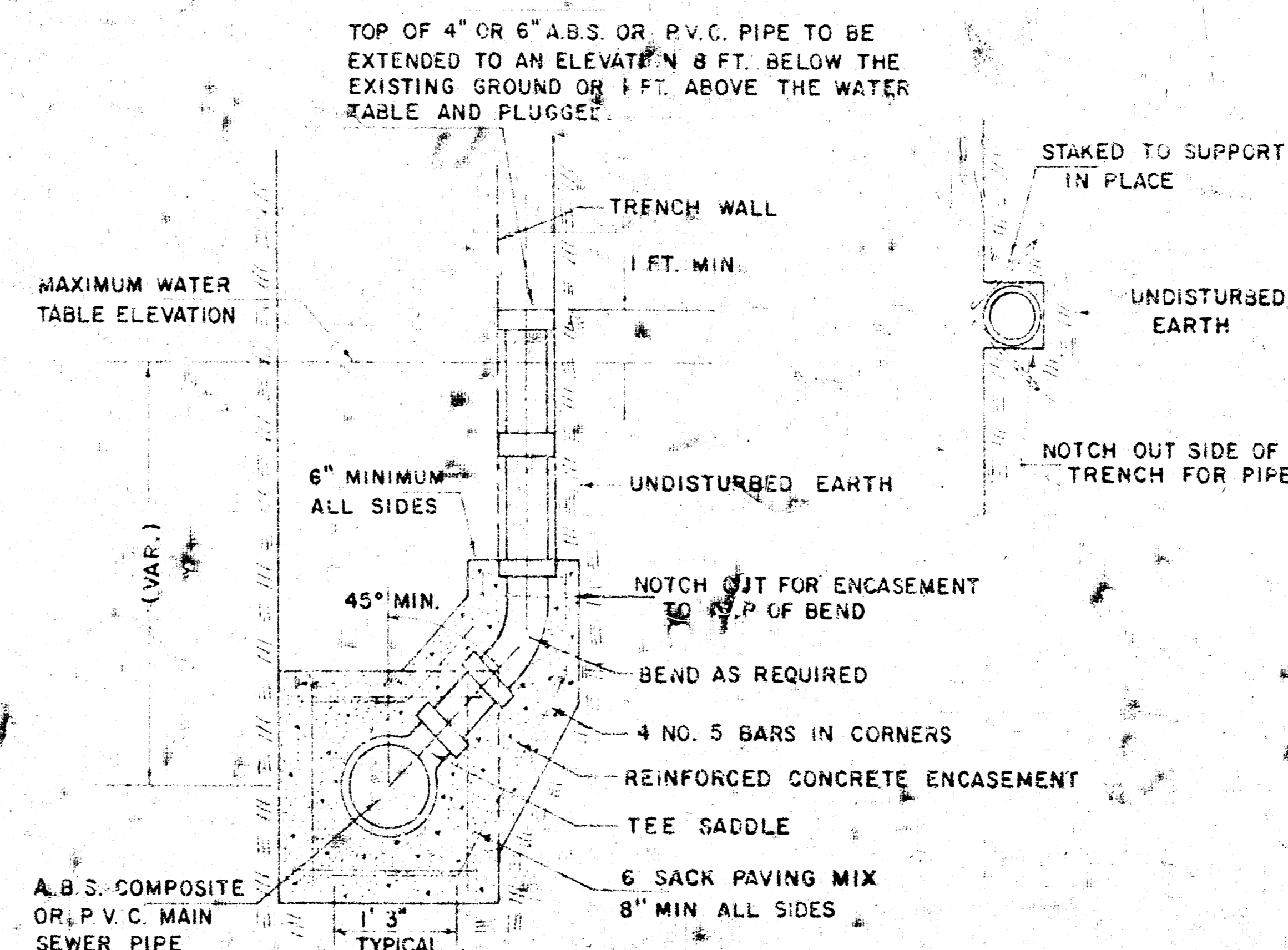
FURNISHING AND INSTALLING RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 6" PIPE, AND REINFORCED CONCRETE ENCASMENT FOR THE VARIOUS PIPE SIZES INDICATED WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING TEE SADDLE, TAPPING FEE, FITTINGS AND ALL OTHER NECESSARY MATERIALS OR WORK. TAP ON VITRIFIED CLAY MAIN SEWER PIPE SHALL BE COMPLETED BY THE CITY MAINTENANCE DEPARTMENT. THE PROJECT INSPECTOR SHALL KEEP A RECORD OF THE STATION OF RISERS INSTALLED, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER, AND THE PAY QUANTITIES INVOLVED. CONTRACTOR'S METHOD FOR SUPPORTING AND BACK-FILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER. THE ENDS OF RISER PIPE SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE RISER PIPE.



DETAIL FOR VERTICAL RISER  
A.B.S. COMPOSITE OR P.V.C. PIPE  
SLOPING TRENCH WALLS  
(TYPICAL LEFT OR RIGHT)

**GENERAL NOTES (A.B.S. COMPOSITE OR P.V.C. PIPE RISER)**

RISERS SHALL BE INSTALLED TO SERVE ALL PROPERTY WHICH IS PRESENTLY DEVELOPED WHEN THE MAIN SEWER LINE IS IN GROUND WATER OR WHEN THE MAIN SEWER LINE IS DEEPER THAN 8 FEET. RISERS SHALL BE INSTALLED TO SERVE UNDEVELOPED PROPERTY ONLY WHEN THE MAIN SEWER IS IN GROUND WATER. SIX INCH RISERS SHALL BE INSTALLED TO SERVE COMMERCIAL OR INDUSTRIAL PROPERTY AND FOUR INCH RISERS SHALL BE INSTALLED TO SERVE RESIDENTIAL PROPERTY. LOCATION OF RISERS TO SERVE DEVELOPED PROPERTY SHALL BE APPROVED BY THE PROPERTY OWNER. STUBS SHALL BE INSTALLED IN MANHOLES WHERE LOCATIONS OF MANHOLES WILL PROVIDE SATISFACTORY SERVICE CONNECTIONS AS DETERMINED BY THE FIELD ENGINEER OR AS SHOWN BY THE PLANS. ENCASMENT OF A.B.S. COMPOSITE OR P.V.C. MAIN SEWER PIPE SHALL EXTEND A MINIMUM OF 3 FEET ON BOTH SIDES OF THE CENTERLINE OF THE RISER. FOUR INCH OR SIX INCH RISER PIPE SHALL BE ENCASED TO THE TOP OF THE BEND AS INDICATED IN THE DRAWINGS. FURNISHING AND INSTALLING RISERS SHALL BE PAID FOR AT THE UNIT PRICES BID FOR 4" PIPE, 6" PIPE, AND REINFORCED CONCRETE ENCASMENT FOR THE VARIOUS MAIN SEWER PIPE SIZES INDICATED WHICH PRICE SHALL INCLUDE ALL COSTS FOR COMPLETION OF THIS ITEM INCLUDING TEE SADDLE, TAPPING FEE, FITTINGS AND ALL OTHER NECESSARY MATERIALS OR WORK.



DETAIL FOR VERTICAL RISER  
A.B.S. COMPOSITE OR P.V.C. PIPE  
VERTICAL TRENCH WALLS  
(TYPICAL LEFT OR RIGHT)

**GENERAL NOTES (A.B.S. COMPOSITE OR P.V.C. PIPE RISER CONTINUED)**

CONCRETE ENCASMENT OF A.B.S. OR P.V.C. RISER PIPE TO THE TOP OF THE BEND AS SHOWN BY THE DRAWING WILL NOT BE PAID FOR DIRECTLY AND THE COST FOR THIS WORK SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER ITEMS OF WORK. THE PROJECT INSPECTOR SHALL KEEP A RECORD OF THE STATION OF RISERS INSTALLED, THE DIRECTION OF SERVICE, THE ELEVATION OF THE TOP OF THE RISER, AND THE PAY QUANTITIES INVOLVED. CONTRACTOR'S METHOD FOR SUPPORTING AND BACKFILLING RISER PIPE SHALL BE APPROVED BY THE ENGINEER. THE ENDS OF RISER PIPE SHALL BE CAPPED OR PLUGGED USING FITTINGS FURNISHED BY THE MANUFACTURER OF THE RISER PIPE.

**VERTICAL RISER DETAIL**  
ADOPTED AS STANDARD DESIGN  
BY  
ENGINEERING DIVISION  
CITY OF WICHITA, KANSAS  
R. W. LINN, CITY ENGINEER