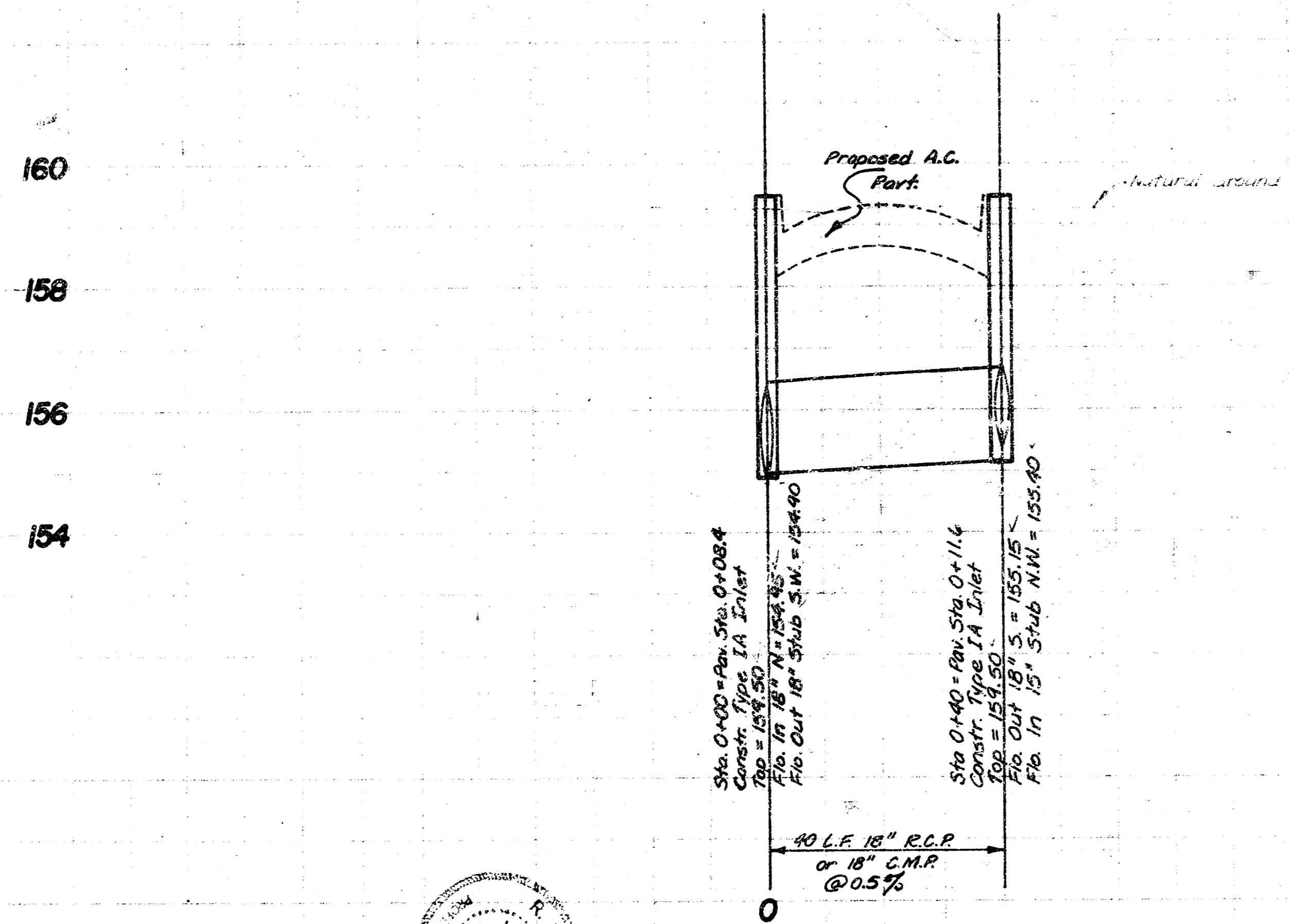
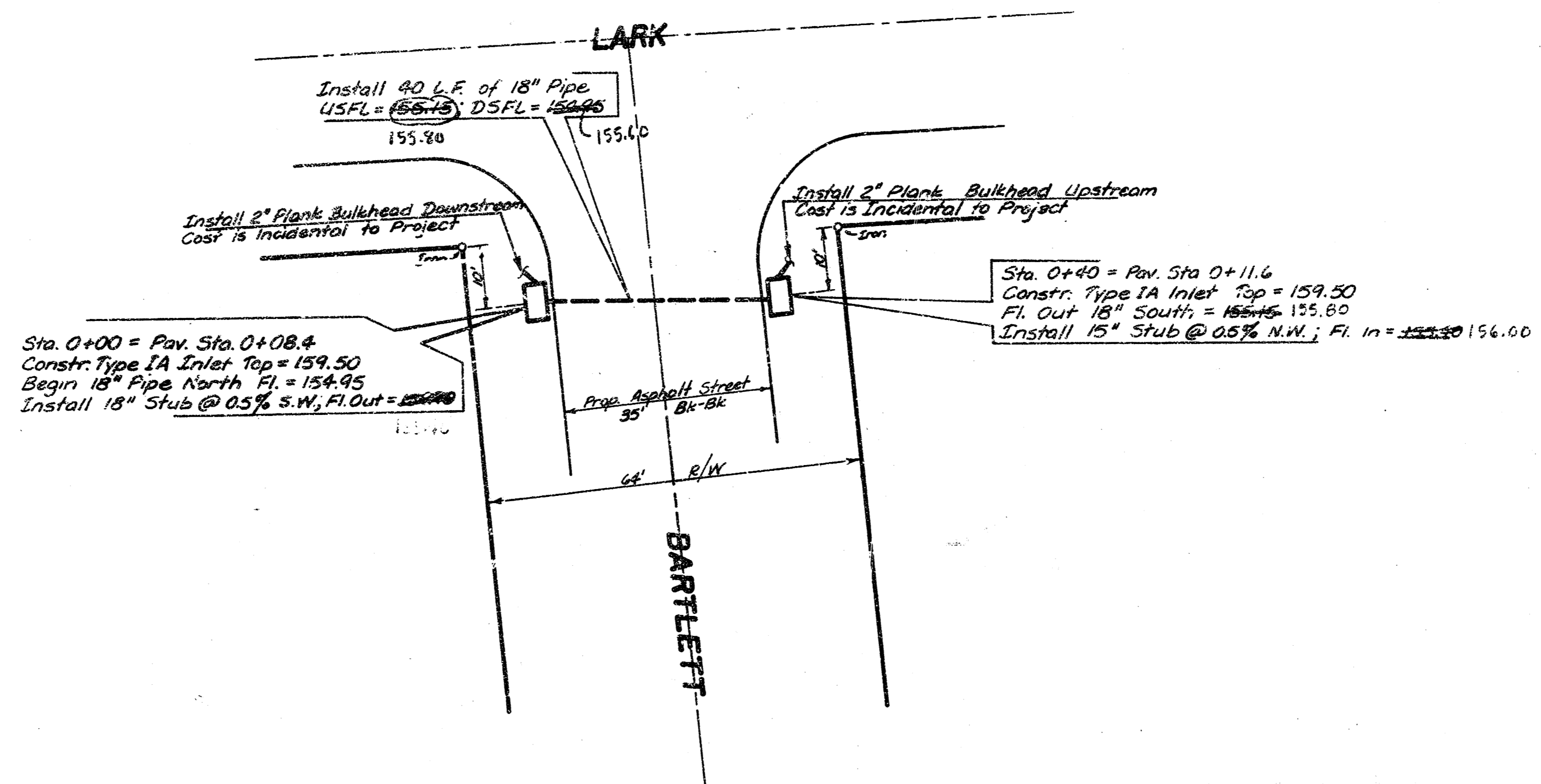


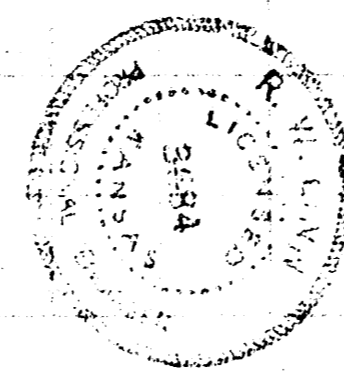
B.M. = 162.11 R.R. Spike W. Fc. PP. N.W. Cor. Maize & Bartlett  
 B.M. = 164.49 R.R. Spike W. Fc. PP. S.W. Cor. 17<sup>th</sup> & Maize



SCALE:  
 PLAN: 1" = 20'  
 PROFILE: 1" = 20'  
 Horiz.: 1" = 20'  
 Vert.: 1" = 2'



PHASE I: Storm Water Sewer #123  
 (Drainage in Connection With  
 the Paving of BARTLETT  
 E.L. Lark to W.L. Maize Rd.)  
 CITY OF WICHITA, KANSAS  
 R.W. Linn — City Engineer  
 Project No. DBKAS77026  
 468-76-245-4034400-006-0001 1/21  
 Date \_\_\_\_\_

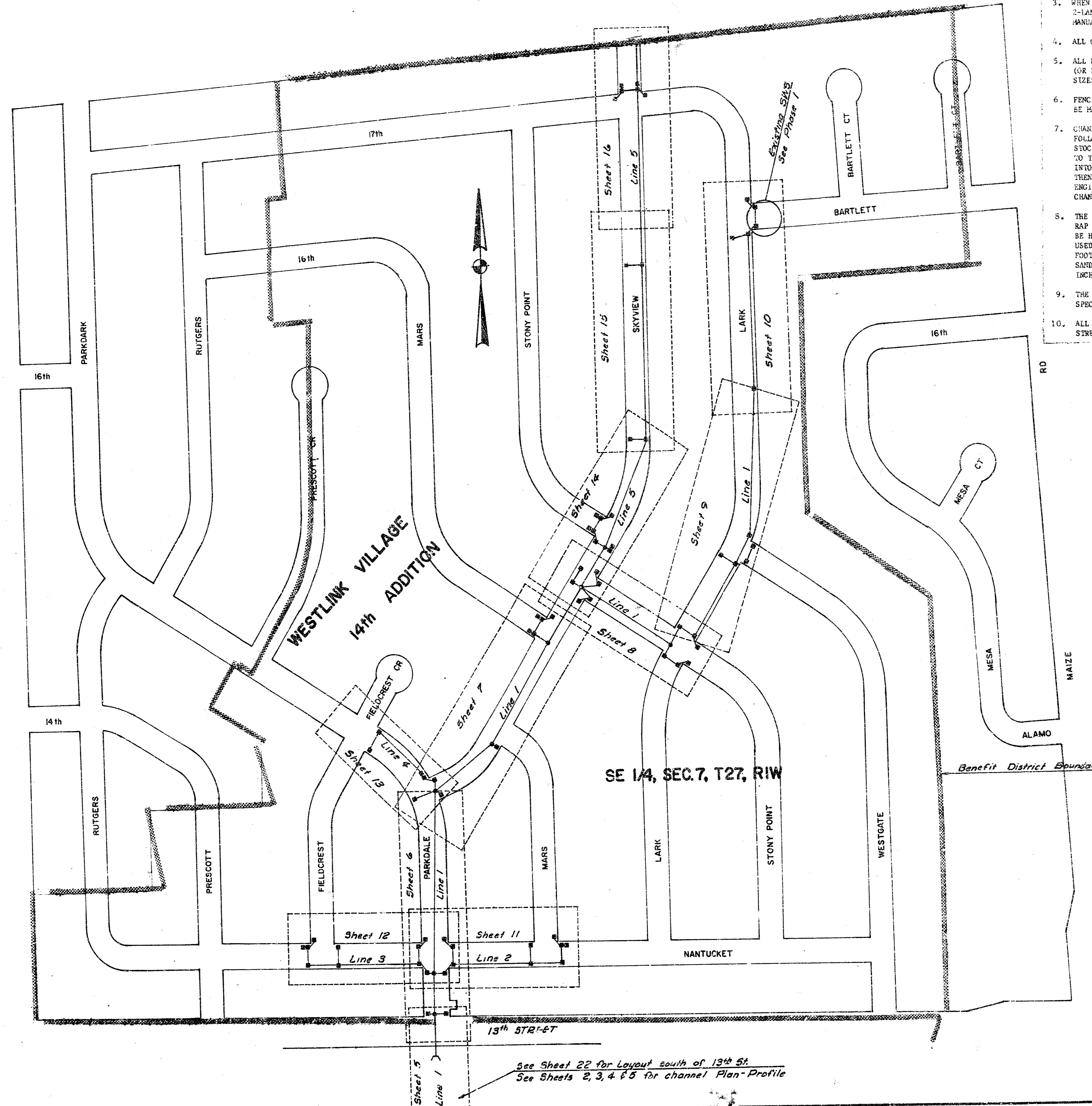


14 5 5 14

# STORM WATER SEWER NO. 123 *Phase 2*

CITY OF WICHITA, KANSAS

R.W. LINN, CITY ENGINEER



**GENERAL NOTES**

1. IMPORTANT NOTE TO CONTRACTOR - THE 120 FOOT DRAINAGE BASIN FOR CHANNEL SOUTH OF 13TH STREET IS HELD FOR CONTINGENCY. EXPECTED DATE RIGHT-OF-WAY CAN BE OBTAINED IS SET AT JULY 1, 1978.
2. FIELD ENGINEER SHALL TAKE THIS TO ALL TRENCHES AND HANDLES WHICH MAY BE DESTROYED. FIELD ENGINEER SHALL REPLACE ALL TRENCHES AND HANDLES WHICH ARE DESTROYED.
3. WHEN WORK IS BEING DONE IN OR ADJACENT TO 13TH STREET, THE WORK SHALL BE DONE SO 2-LANES OF TRAFFIC SHALL BE CARRIED THROUGH CONSTRUCTION OR ONE-LANE SHALL BE MANUALLY DIRECTED AT CONTRACTOR'S EXPENSE TO ACCOMMODATE THE ROADWAY TRAFFIC.
4. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL BE "8-BACK CONCRETE".
5. ALL METAL PIPES SHALL BE HELICALLY CORRUGATED METAL PIPES FOR SIZES 24" IN DIAMETER (OR EQUIVALENT ARCH PIPE) OR SMALLER, AND FULLY PAINTED CORRUGATED METAL PIPE FOR SIZES 24 INCHES IN DIAMETER (OR EQUIVALENT ARCH PIPE) OR LARGER.
6. FENCES SOUTH OF 13TH STREET AS NOTED ON THE PLANS TO BE "REMOVED AND REPLACED" SHALL BE MAINTAINED SO AS TO KEEP LIVESTOCK IN AND THE PUBLIC OUT.
7. CHANNEL INCORPORATION MATERIAL SOUTH OF 13TH STREET SHALL BE PERFORMED WITH CARE AS FOLLOWS: THE TOP 12" OF THE SOIL WITH VEGETATION COVER SHALL BE FIRST REMOVED AND STOCKPILED ON SITE. THE REMAINING MATERIAL SHALL BE GRADED TO THE PROPER ADJACENT TO THE EAST BANK OF THE CHANNEL IN SUCH MANNER THAT THIS PROPERTY TO THE LAND DEGRADATION INTO THE CHANNEL. THE FIRST 12" OF THE DOSSOL, THAT WAS STOCKPILED ON SITE WILL THEN BE GRADED OVER THE CHANNEL AND OVER THE NEW FILL AREA, AS DIRECTED BY THE SITE ENGINEER AND WITH CARE SO MAXIMUM OF THE AREA TO THE EAST WILL DRAIN INTO THE CHANNEL.
8. THE RIP-RAP ON THIS PROJECT SHALL BE TYPE 4. THE TYPE 4 RIP-RAP SHALL BE 3" RIP-RAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIP-RAP AND GRAVEL PARTICULATION SHALL BE HARD, DENSE, DURABLE AND SHALL BE REASONABLY WELL GRADED. THE SIZE RANGE OF ROCK USED SHALL HAVE A MAXIMUM SIZE OF 1 1/8 CUBIC YARD AND A MINIMUM SIZE OF 1/10 CUBIC FOOT. THE 6 INCH SAND AND GRAVEL BEDDING FOR RIP-RAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2 INCHES IN SIZE.
9. THE CHANNEL RIGHT-OF-WAY SHALL BE SEDED IN ACCORDANCE WITH THE CITY OF WICHITA SPECIFICATIONS.
10. ALL EXCESS EXCAVATION MATERIAL NORTH OF 13TH STREET SHALL BE STOCKPILED WITHIN THE STREET AREAS.

INDEX	
1	Cover Sheet
2-14	Plan-Profile
17	Manhole
18	Manhole Appurtenances
19	Manhole, Concrete Manhole
20	Manhole
21	Structure Note
22	Layout south of 13th St.
23-27	Cross-Sections

PROJECT NO. DBKA 577026

DATE \_\_\_\_\_

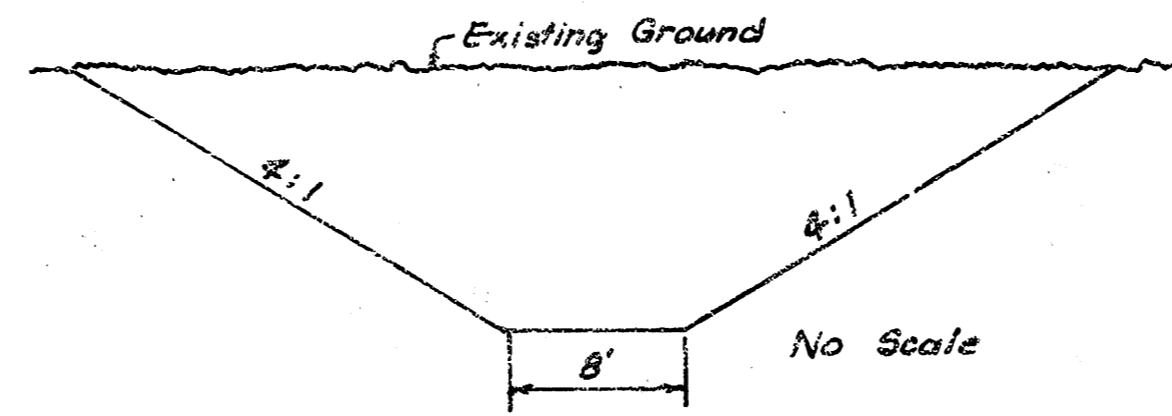
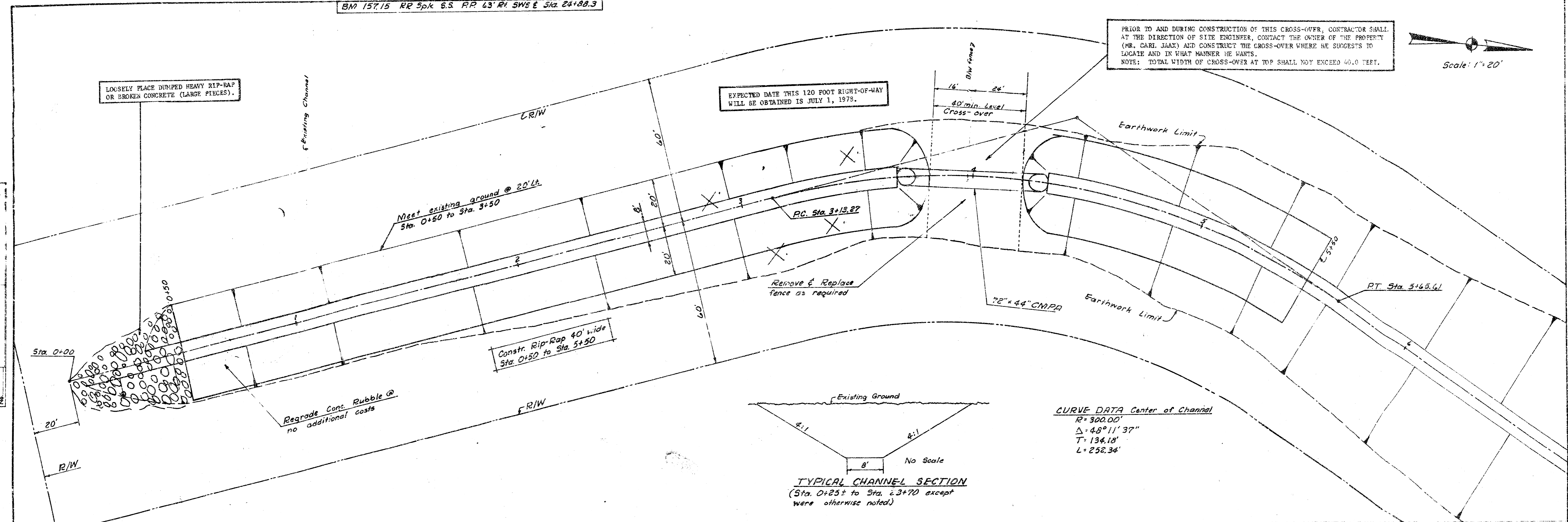
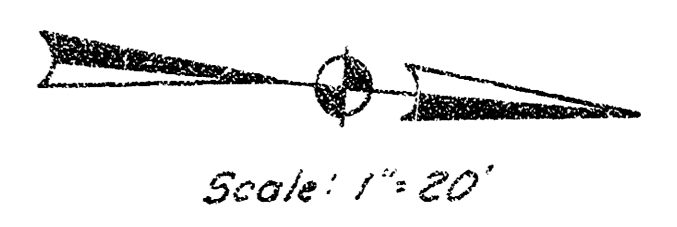
PROJECT NO. 468-76-245-80346000-000-001

SHEET 27 OF 27

SW3 #123

BM 157.15 RR Spk. 6.5 RP 43 R/SWS E Sta. 24180.3

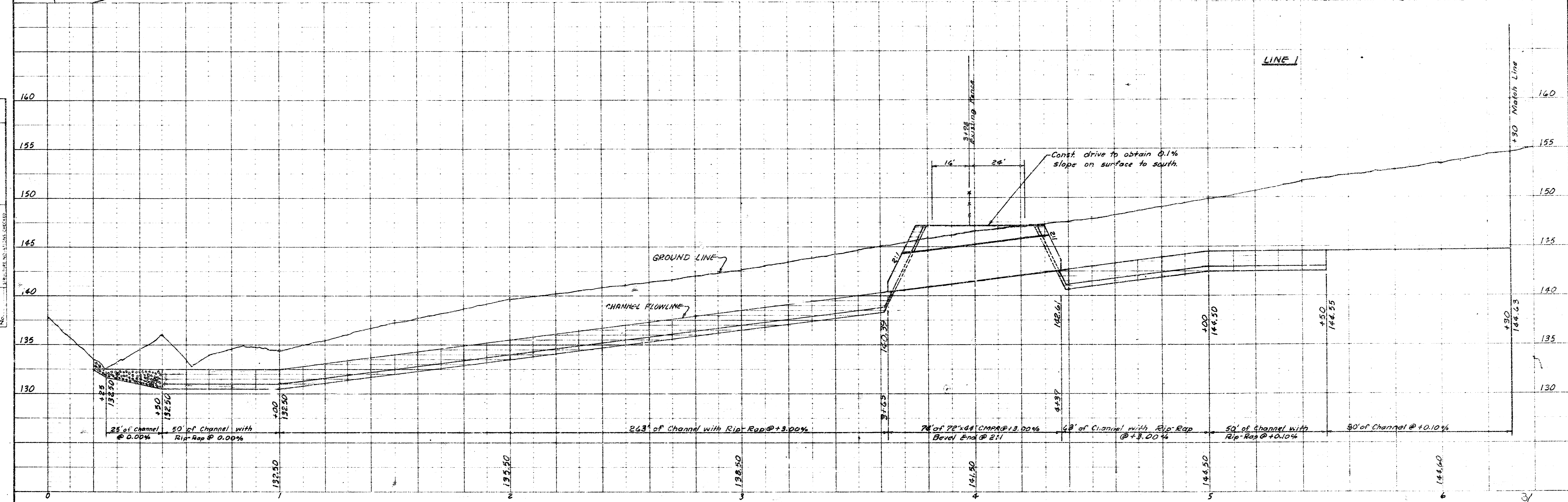
PRIOR TO AND DURING CONSTRUCTION OF THIS CROSS-OVER, CONTRACTOR SHALL AT THE DIRECTION OF SITE ENGINEER, CONTACT THE OWNER OF THE PROPERTY (MR. CARL JAAX) AND CONSTRUCT THE CROSS-OVER WHERE HE SUGGESTS TO LOCATE AND IN WHAT MANNER HE WANTS.  
NOTE: TOTAL WIDTH OF CROSS-OVER AT TOP SHALL NOT EXCEED 40.0 FEET.



CURVE DATA Center of Channel  
 R=300.00'  
 Δ=48°11'37"  
 T=136.18'  
 L=252.34'

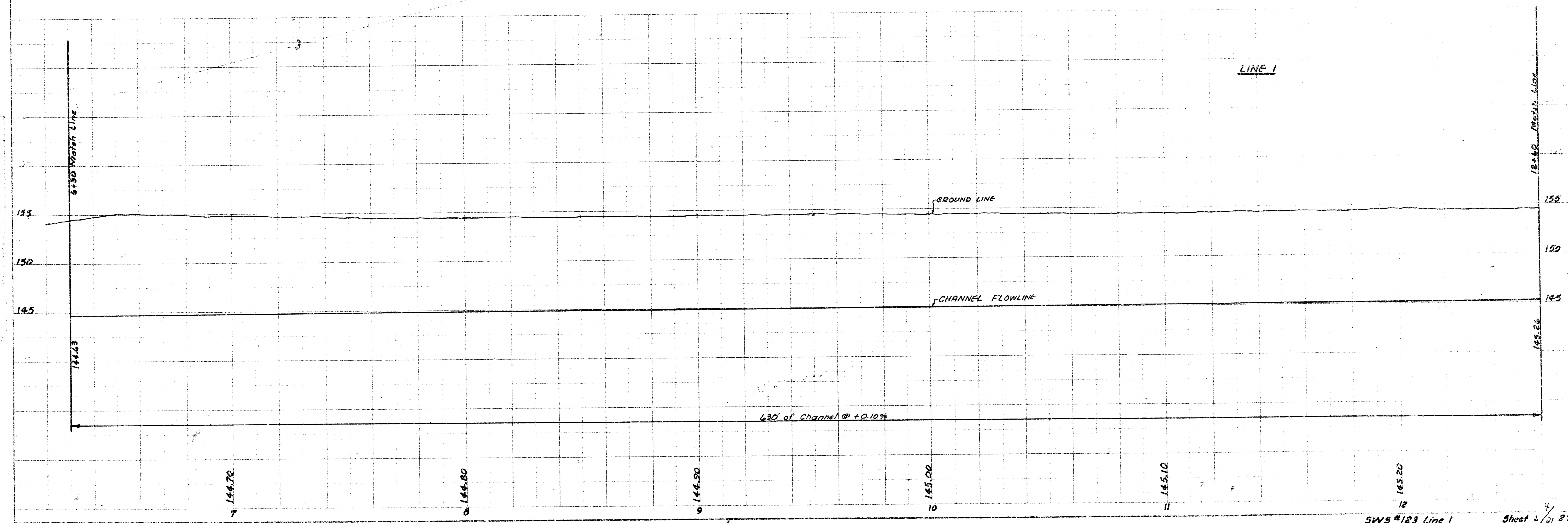
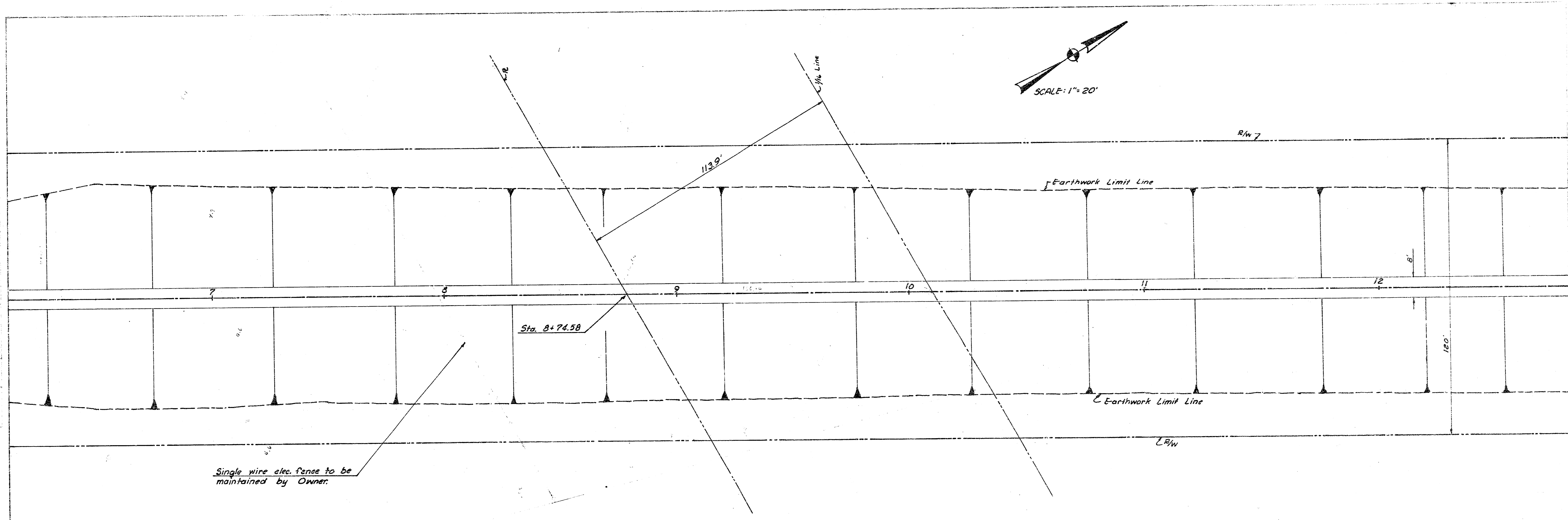
PLAN  
 SHEET NO. 123-22  
 DATE: 7/2/72  
 DRAWN BY: K.E.  
 CHECKED BY: K.E.  
 NO. OF REVISIONS: 0

PROFILE  
 SHEET NO. 123-22  
 DATE: 7/2/72  
 DRAWN BY: K.E.  
 CHECKED BY: K.E.  
 NO. OF REVISIONS: 0



PLAN  
DATE: JUN 88  
PROJECT: SWWS #123 Line 1

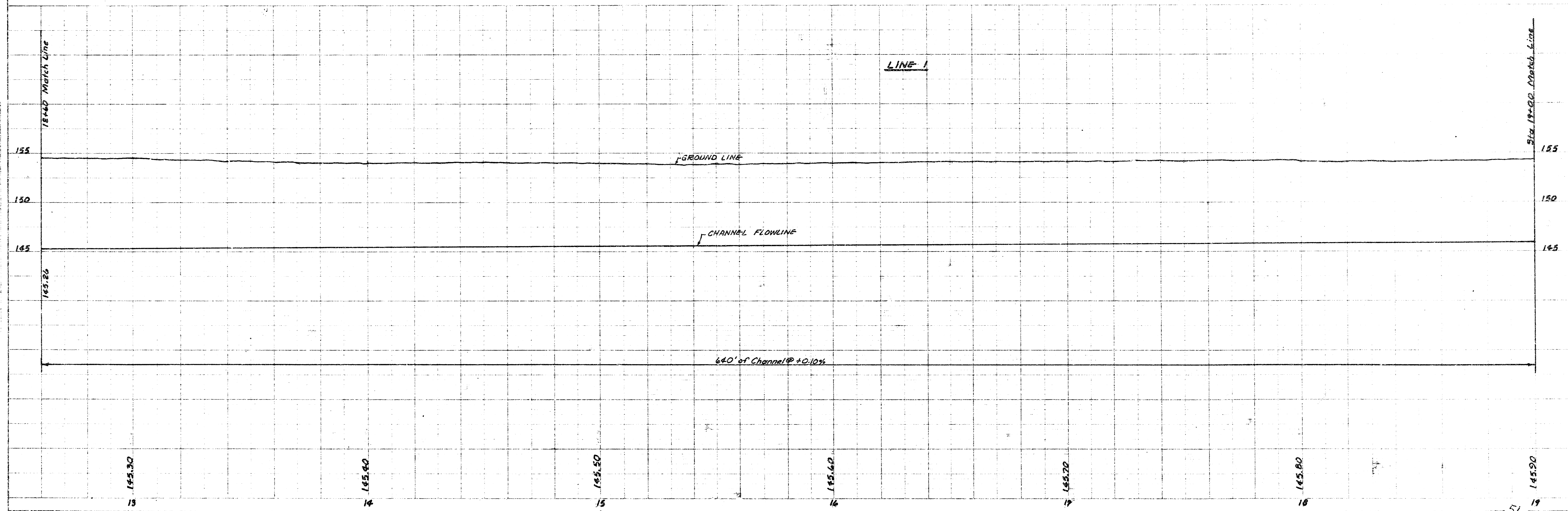
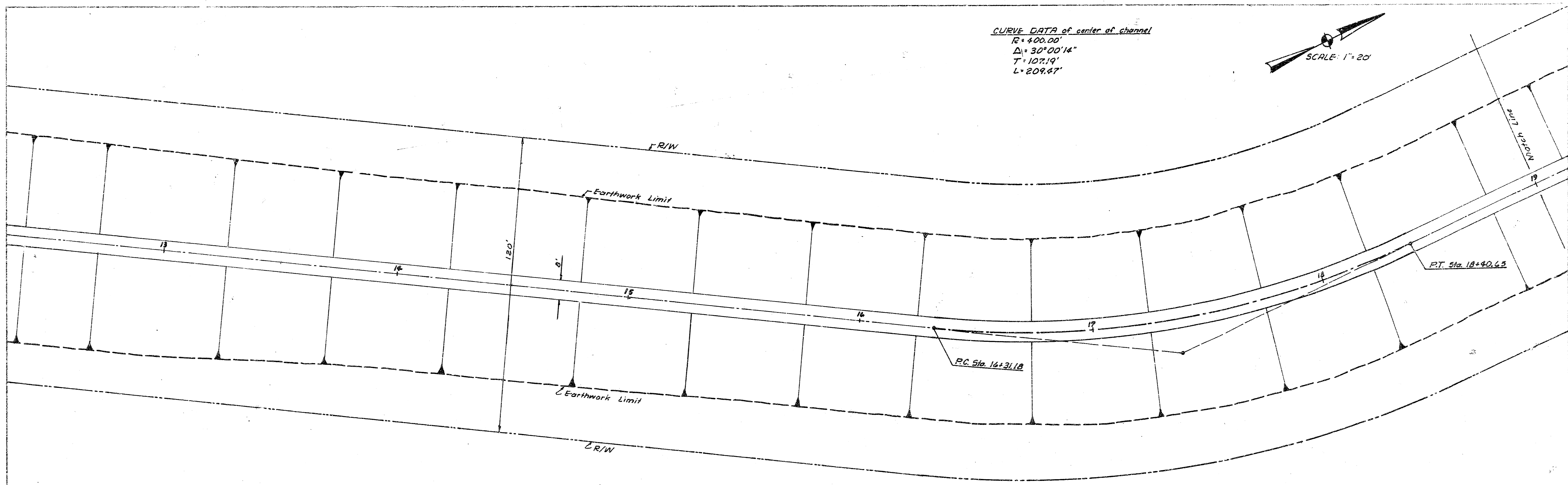
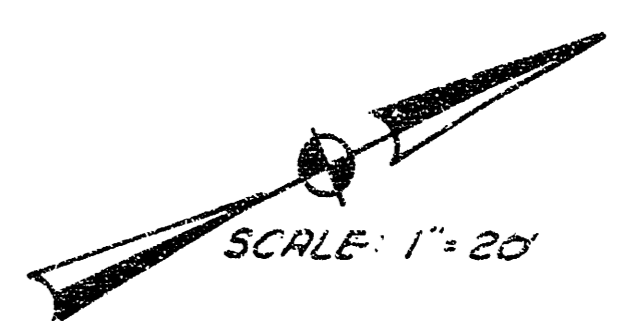
PK DIAL  
DATE: JUN 88  
PROJECT: SWWS #123 Line 1



PLAN  
 JULY 22  
 18+40.00  
 18+40.00  
 18+40.00  
 18+40.00  
 18+40.00

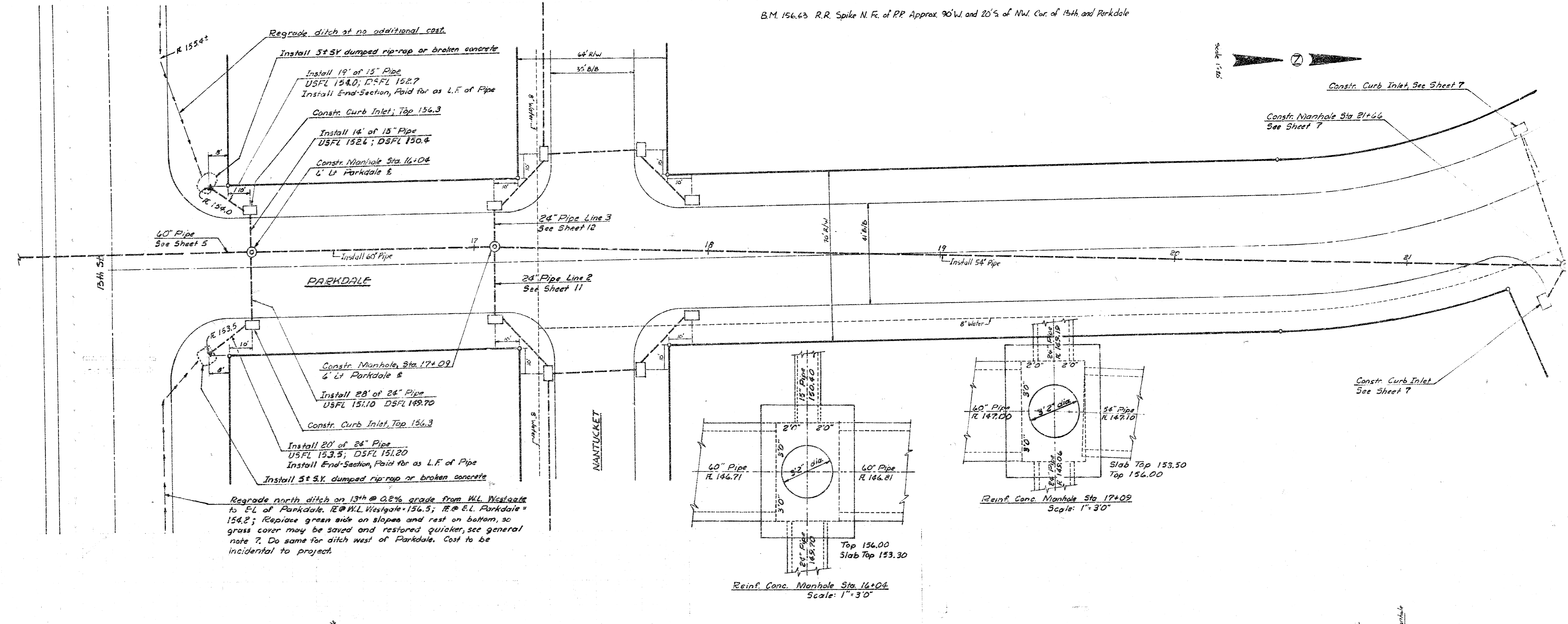
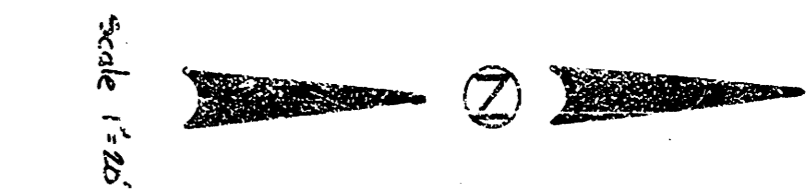
PROFILE  
 18+40.00  
 18+40.00  
 18+40.00  
 18+40.00  
 18+40.00

CURVE DATA of center of channel  
 R = 400.00'  
 Δ = 30° 00' 14"  
 T = 107.19'  
 L = 209.67'

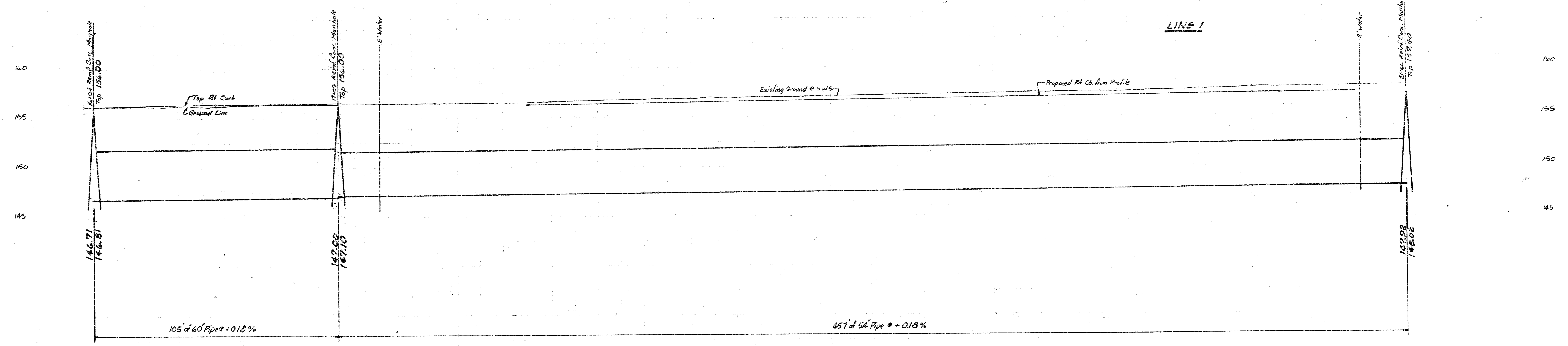




B.M. 156.63 R.R. Spike N. E. of P.P. Approx. 90' W. and 20' S. of NW. Cor. of 15th and Parkdale

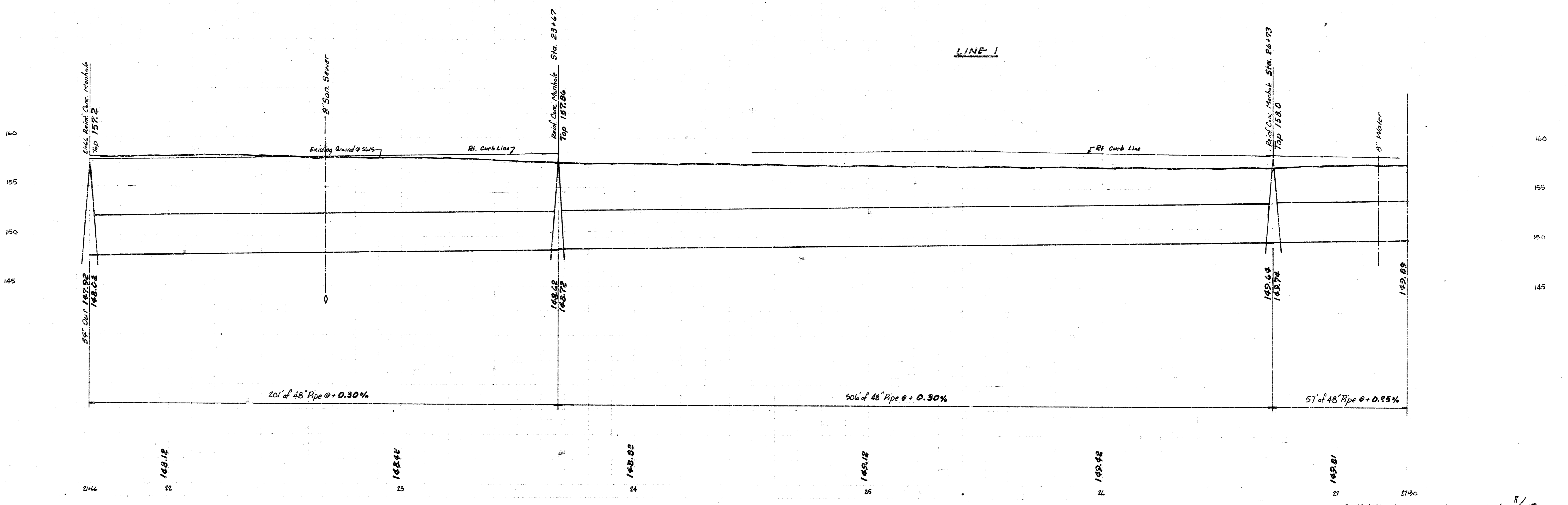
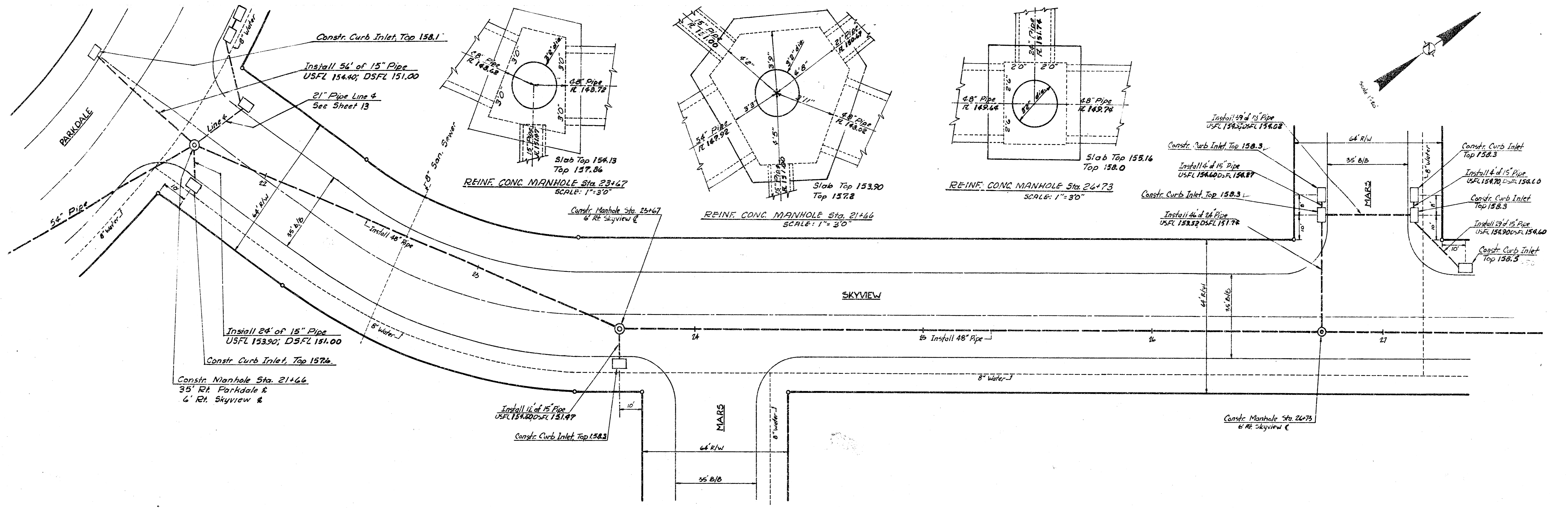


Regrade north ditch on 13th @ 0.2% grade from W.L. Westgate to E.L. of Parkdale. R @ W.L. Westgate = 154.5; R @ E.L. Parkdale = 154.2; Replace green side on slopes and rest on bottom, so grass cover may be saved and restored quicker, see general note 7. Do same for ditch west of Parkdale. Cost to be incidental to project.



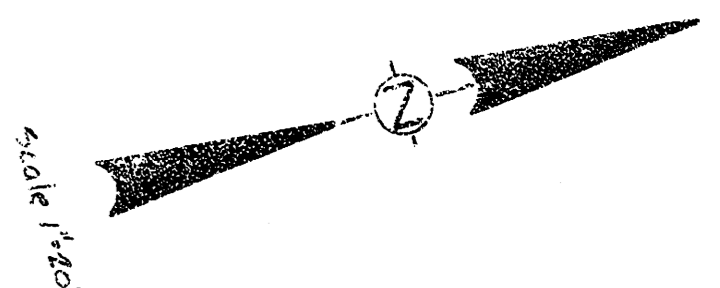
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JLA 25

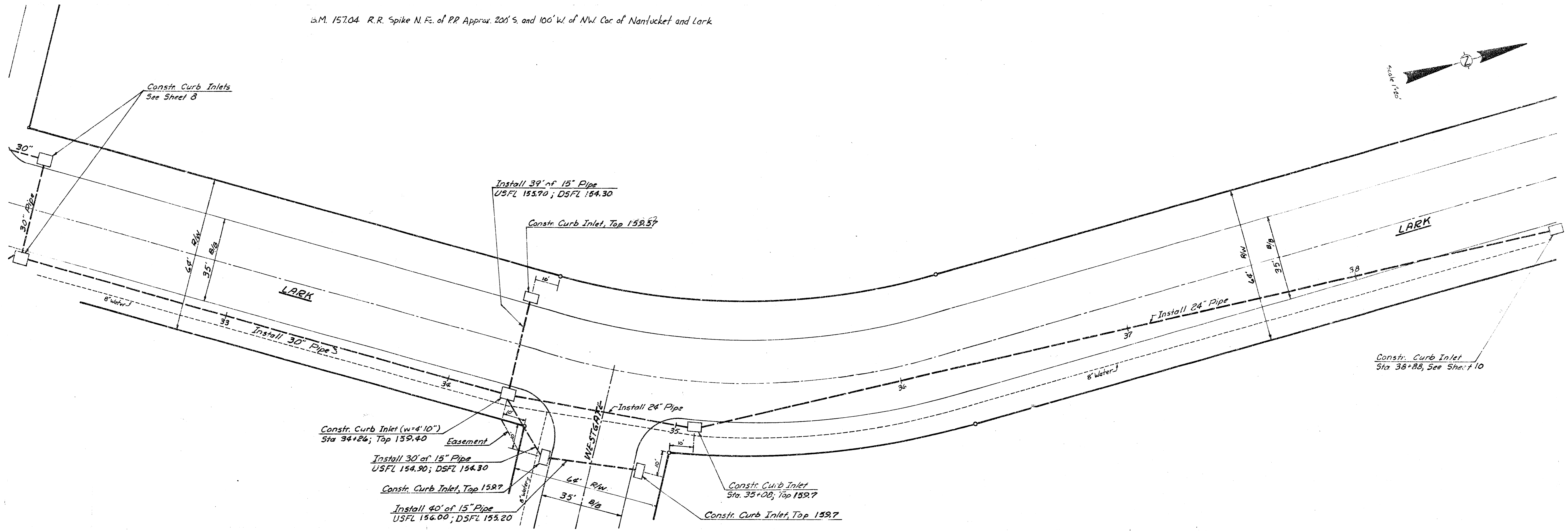




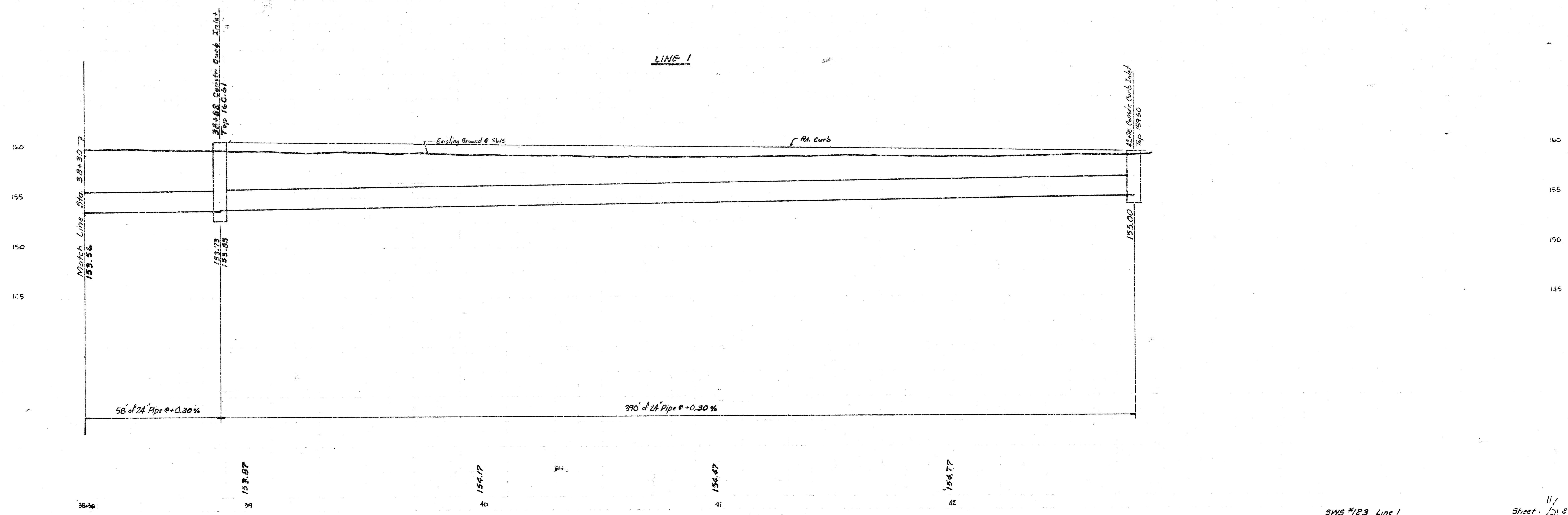
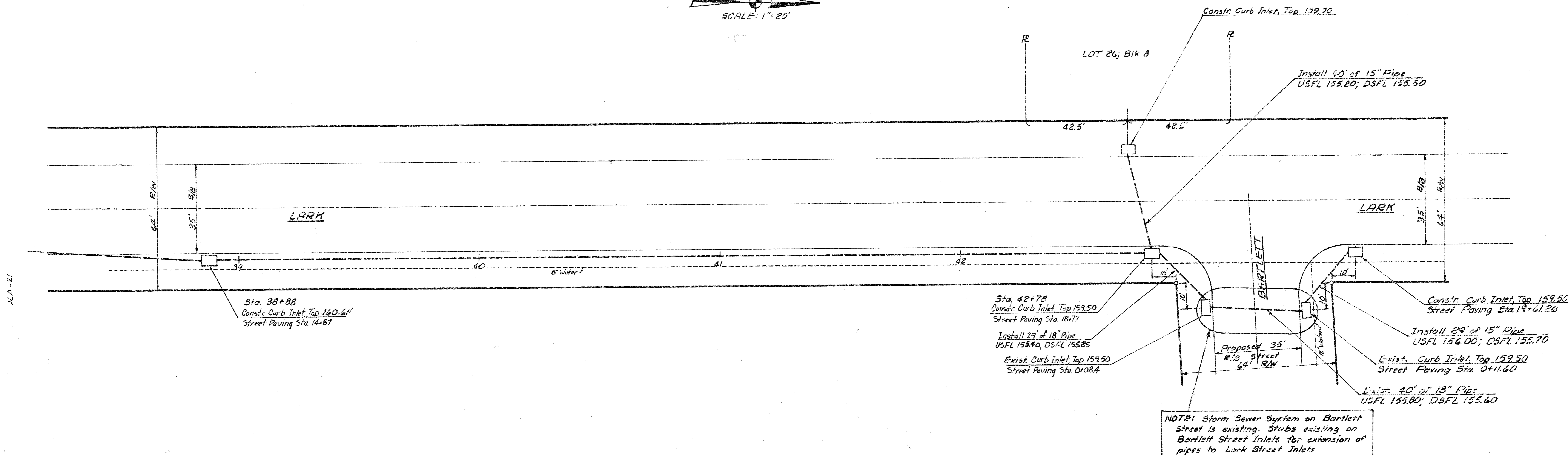
B.M. 157.04 R.R. Spike N. E. of P.P. Approx. 200' S. and 100' W. of NW Cor. of Nantucket and Lark



204-21

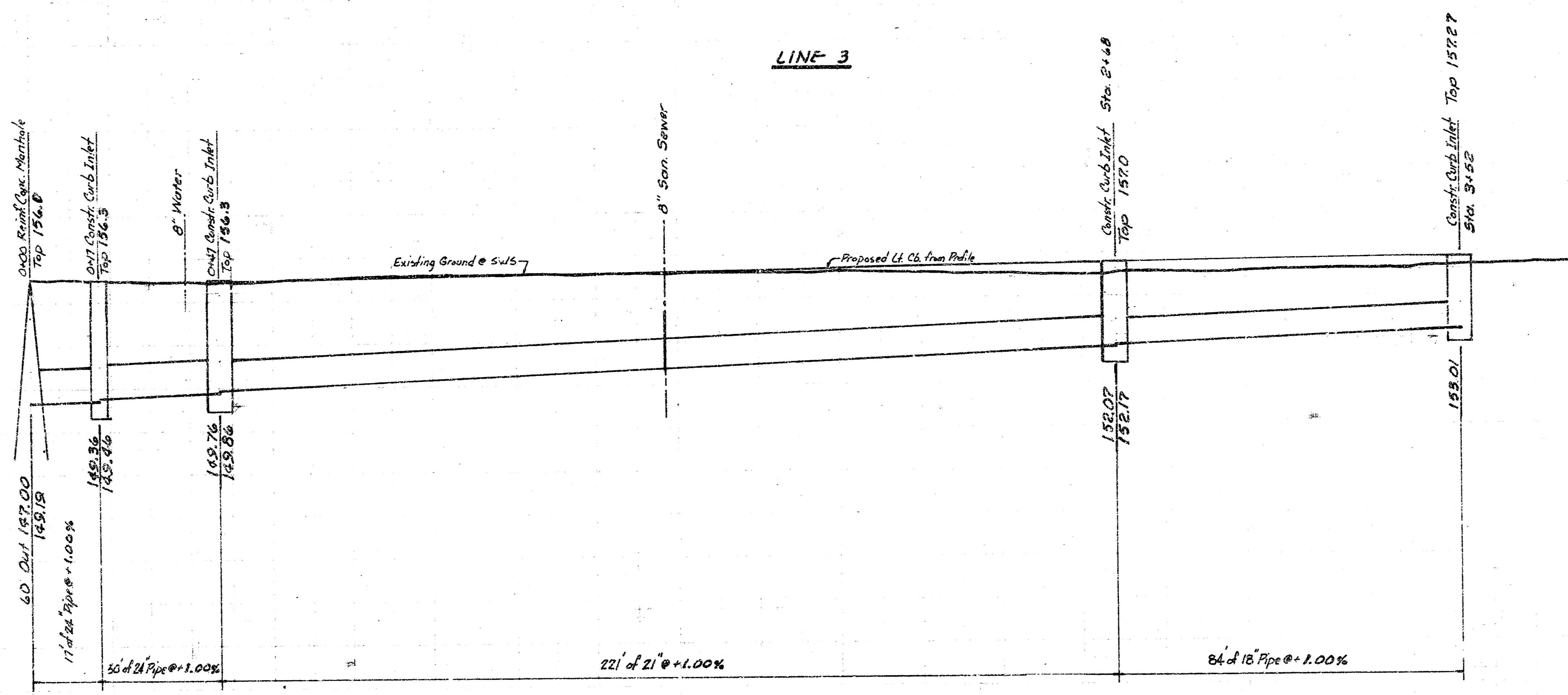
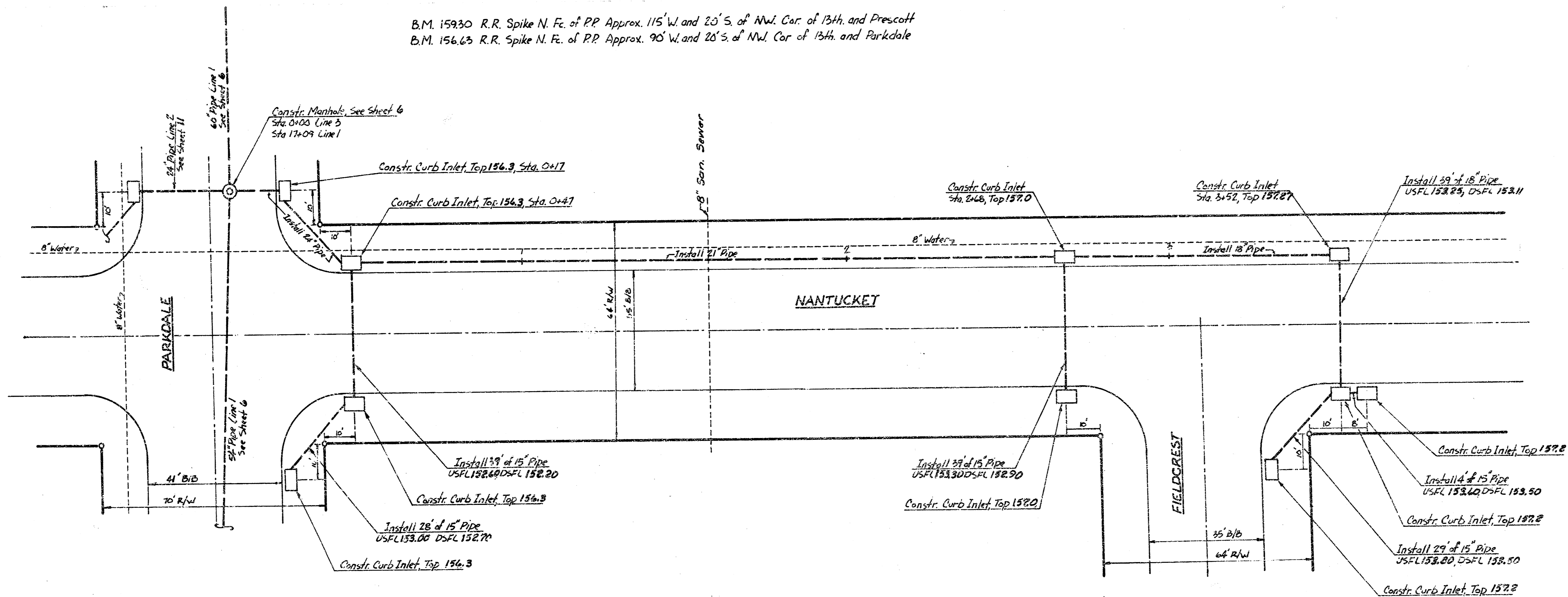
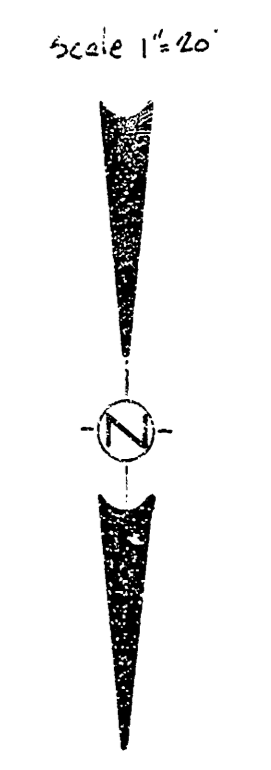


BM 157.04 R.R. Spike N.S. Power 200' S & 100' W of NW Cor. Nantucket & Lark.  
 BM 163.9E Top of Metal Post 163' W & 120' N of NW Cor. 17th & Skyview.  
 BM 162.11 R.R. Spike W. FC PP NW Cor. Maize & Bartlett.





B.M. 15930 R.R. Spike N. E. of P.P. Approx. 115' W. and 20' S. of NW. Cor. of 13th and Prescott  
 B.M. 15623 R.R. Spike N. E. of P.P. Approx. 90' W. and 20' S. of NW. Cor. of 13th and Parkdale



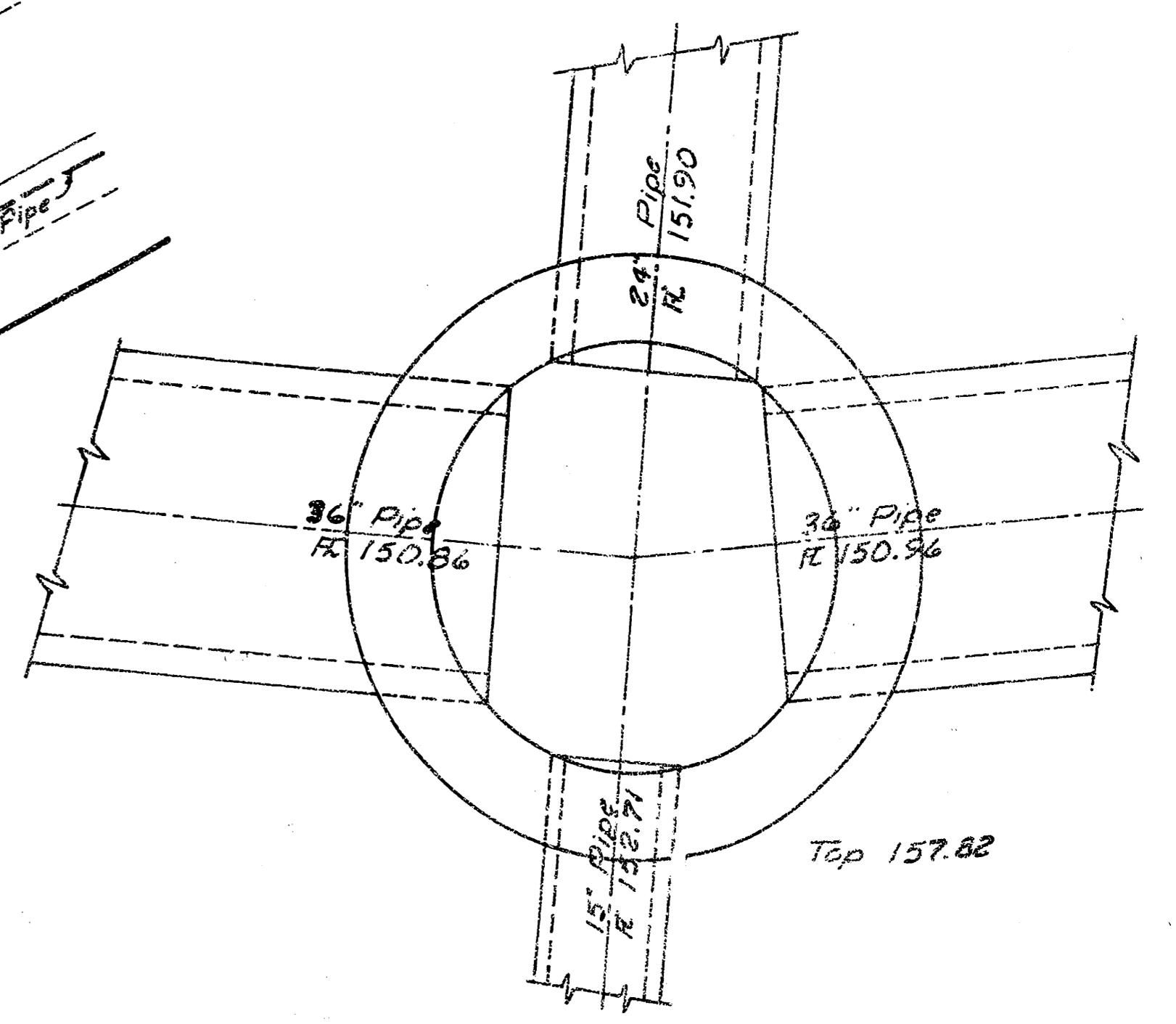
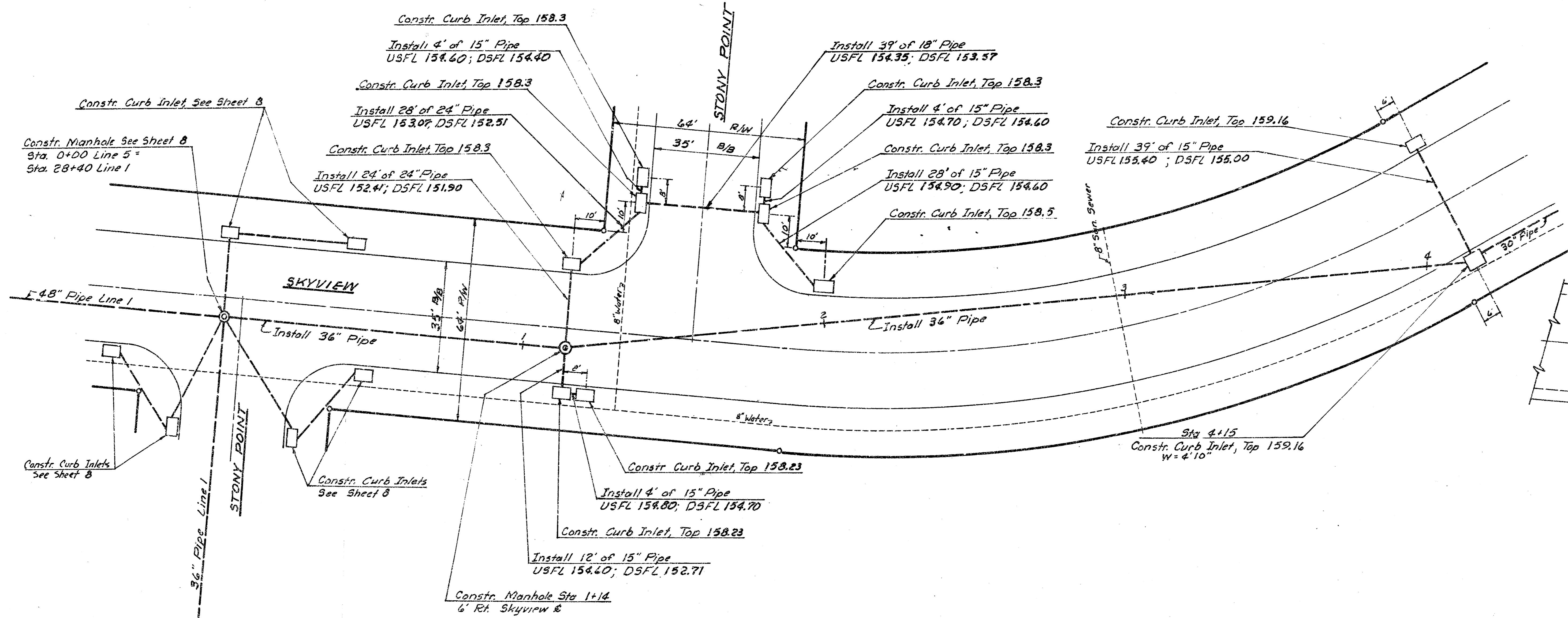
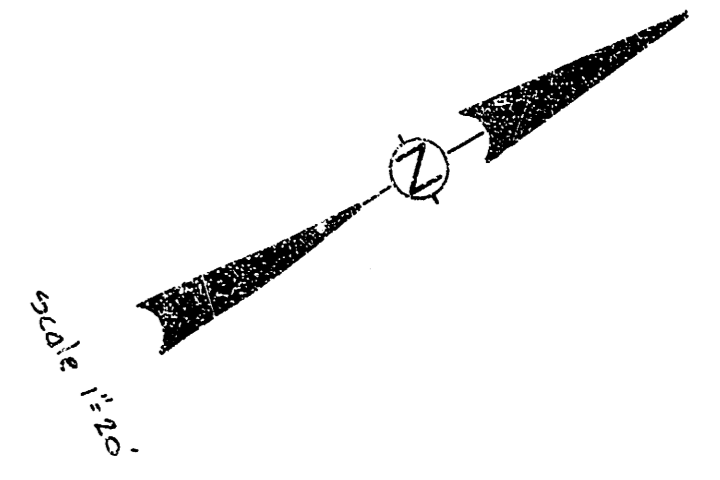
1/4\"/>

145  
150  
155  
160

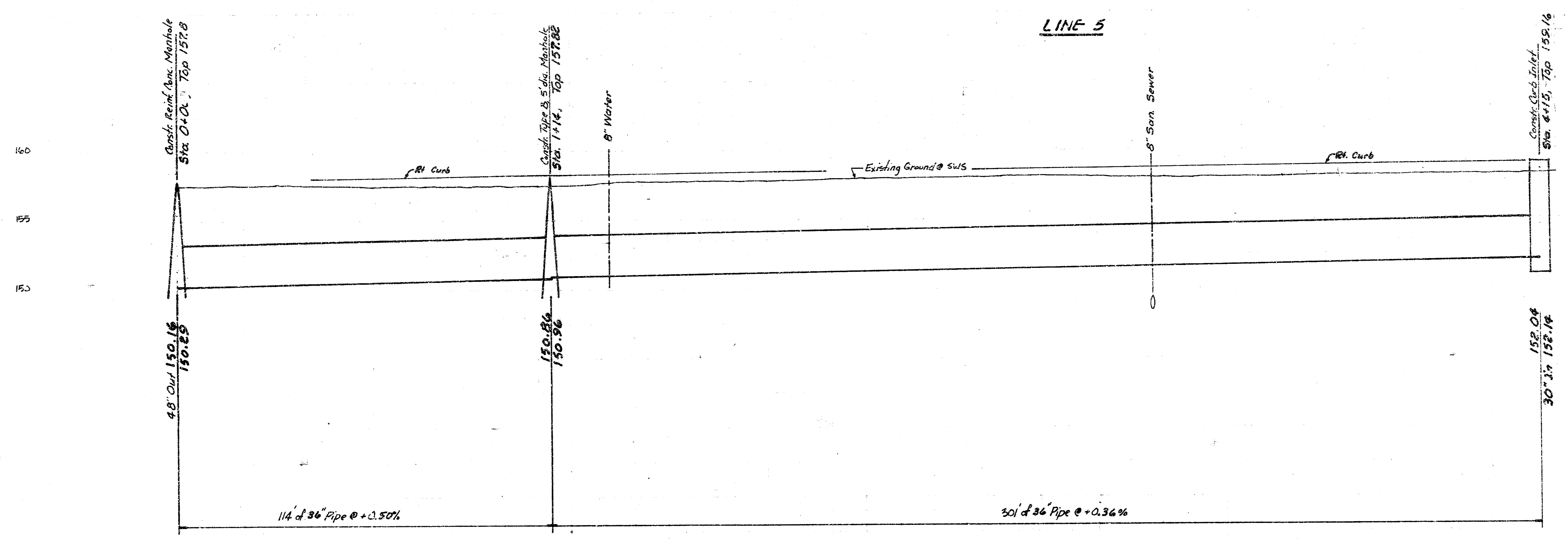
145  
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155  
160



B.M. 163.92 Top of Metal Post Approx. 100' W. and 120' N. of NW. Cor. of 17th. and Skyview



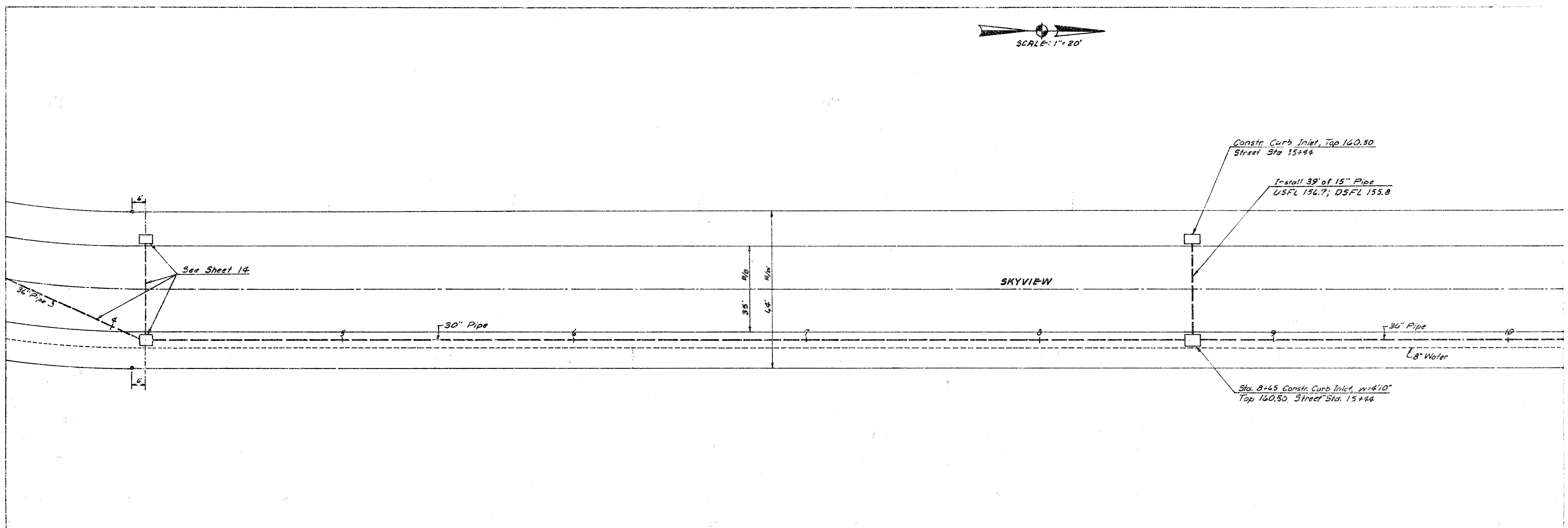
Type B 5' dia Manhole  
Sta. 1+14 Line 5  
Scale: 1/8" = 1'-0"



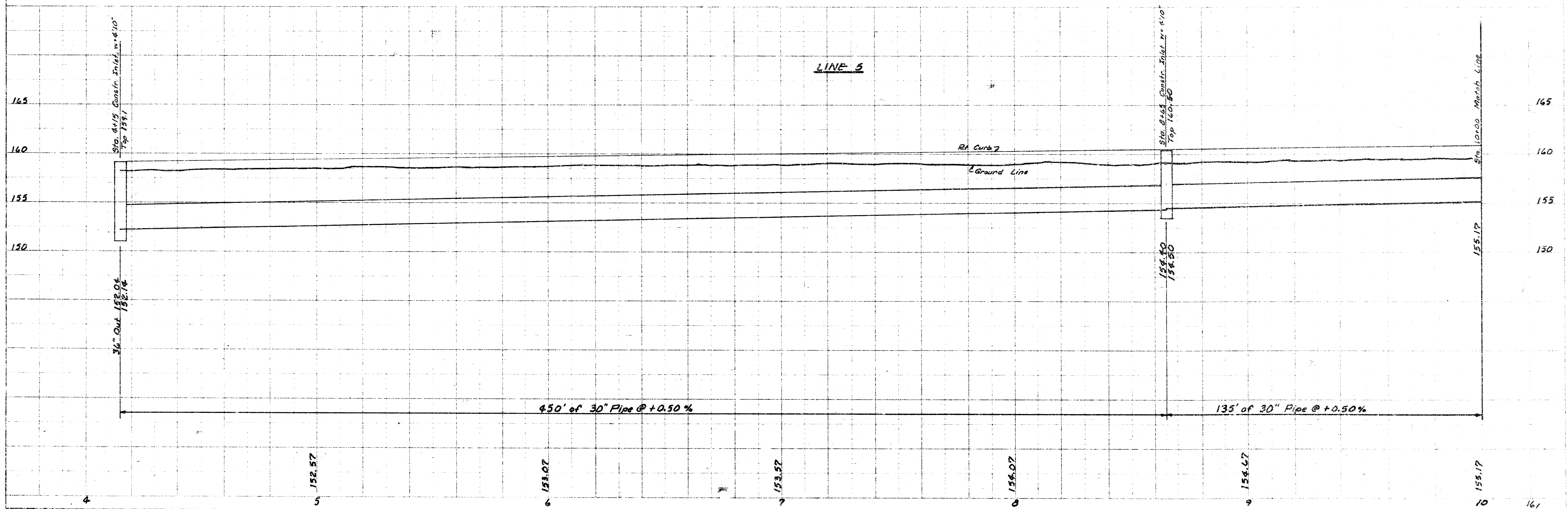
JCA:ES



PLAN  
SOUTH BOUND  
1/27/24



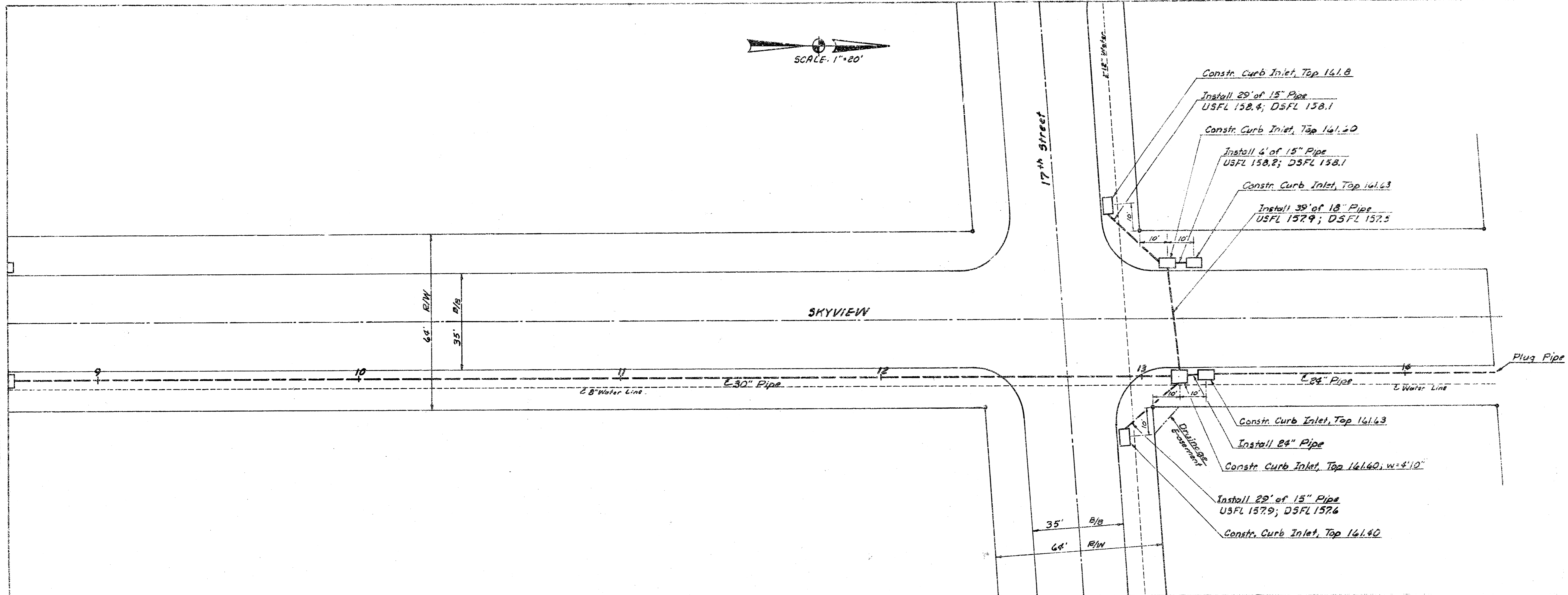
PROFILE  
SOUTH BOUND  
1/27/24





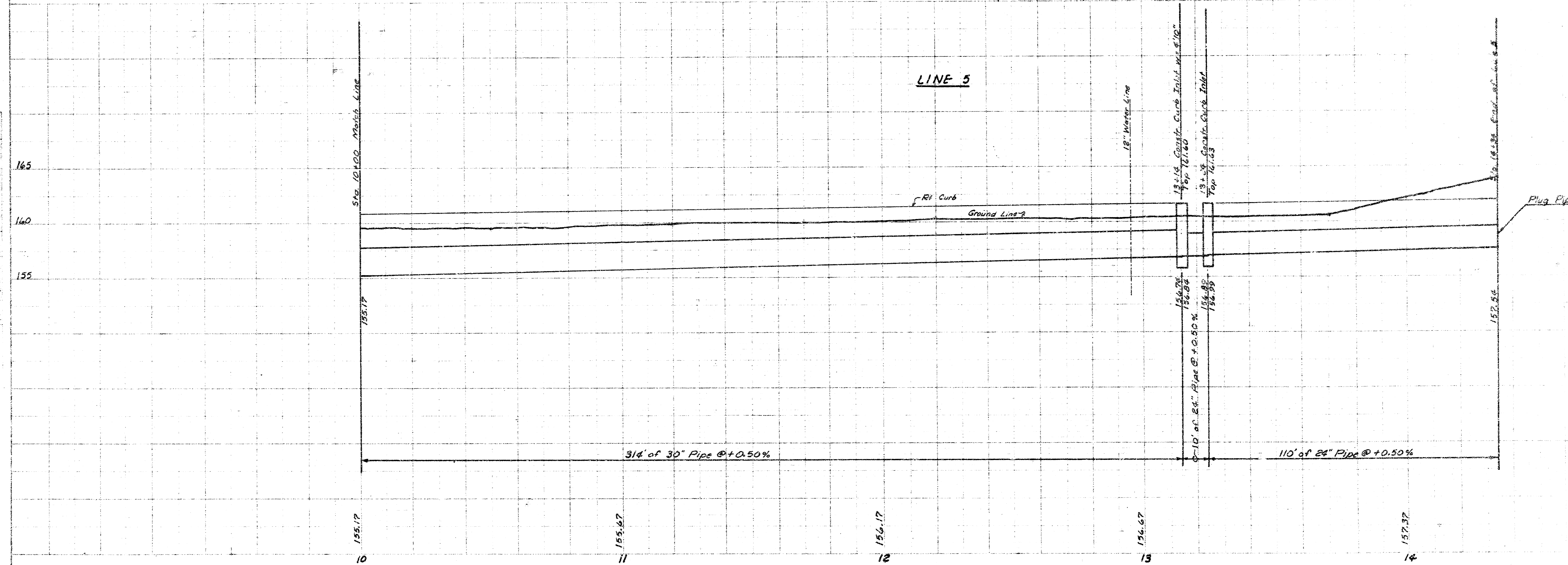
PLAN

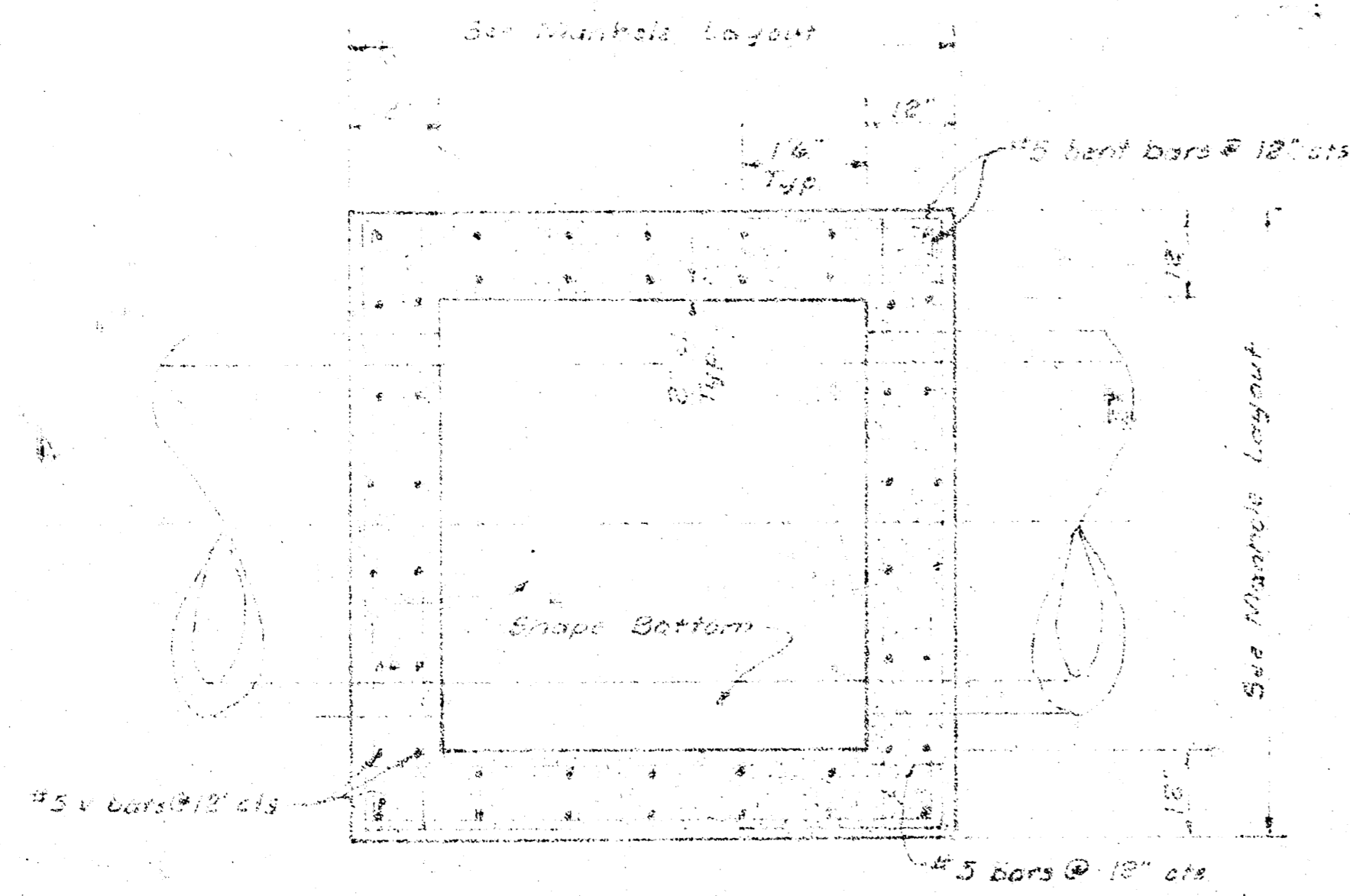
NOTES:  
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.  
2. SEE SHEET SW5 #123 Line 5 FOR CONTINUATION.



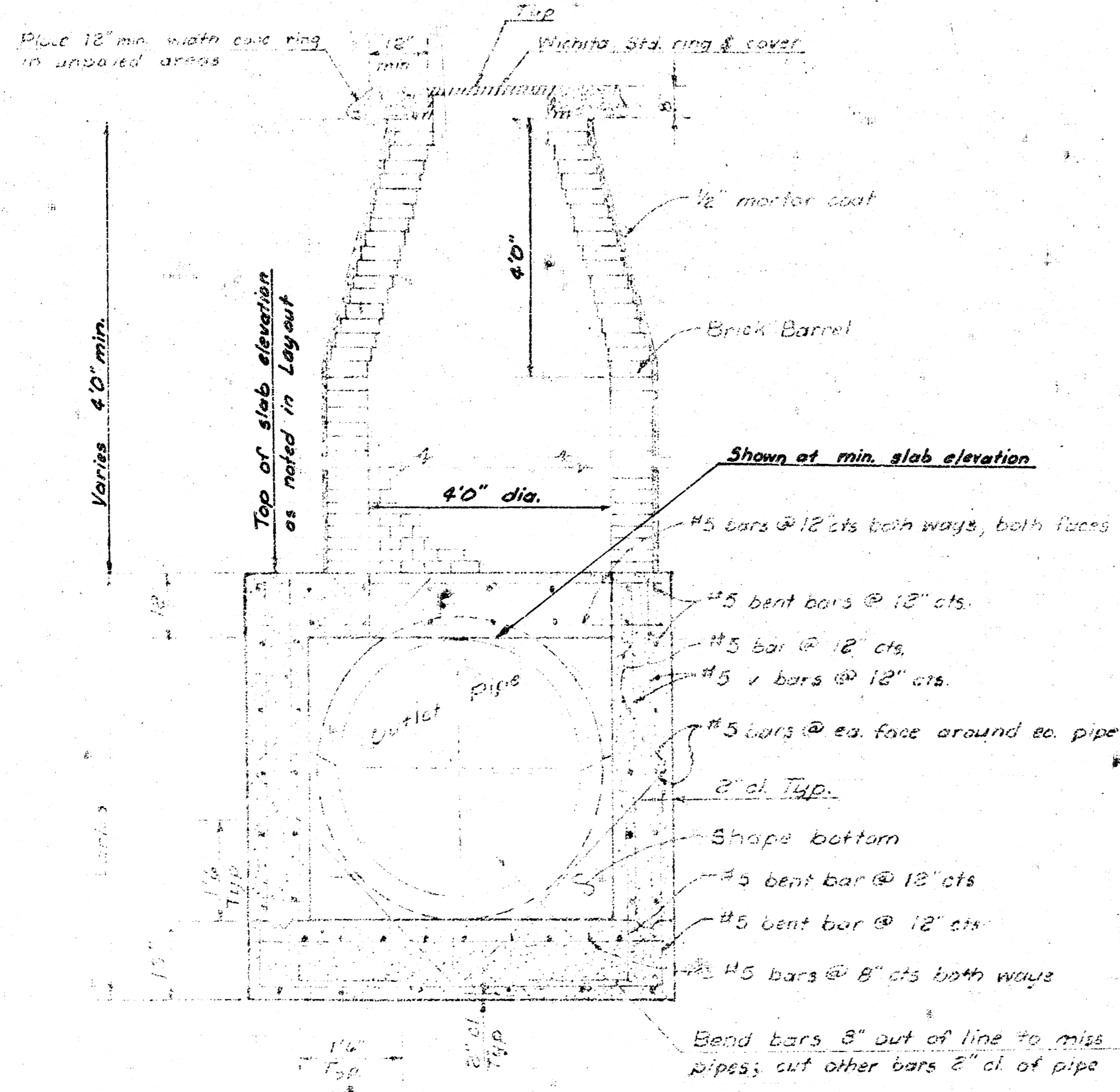
PROFILE

NOTES:  
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.  
2. SEE SHEET SW5 #123 Line 5 FOR CONTINUATION.



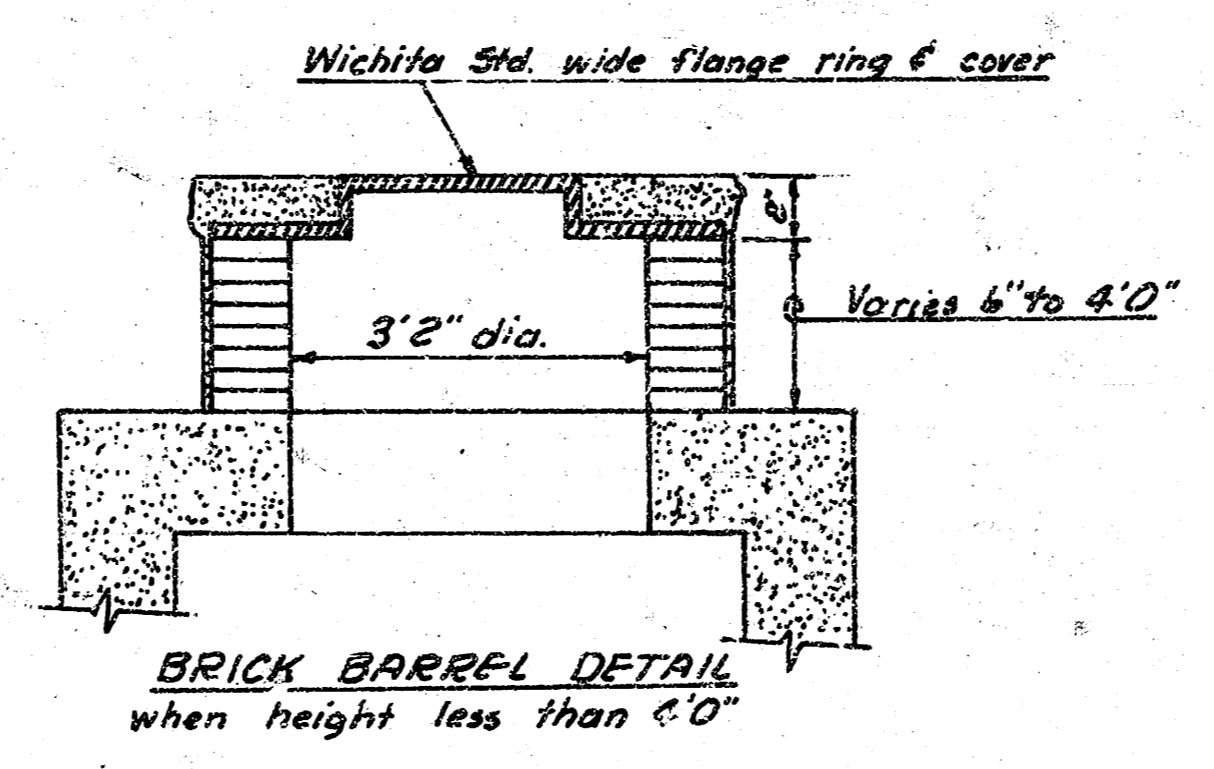


PLAN SECTION THRU WALLS  
SCALE 1/2" = 1'-0"



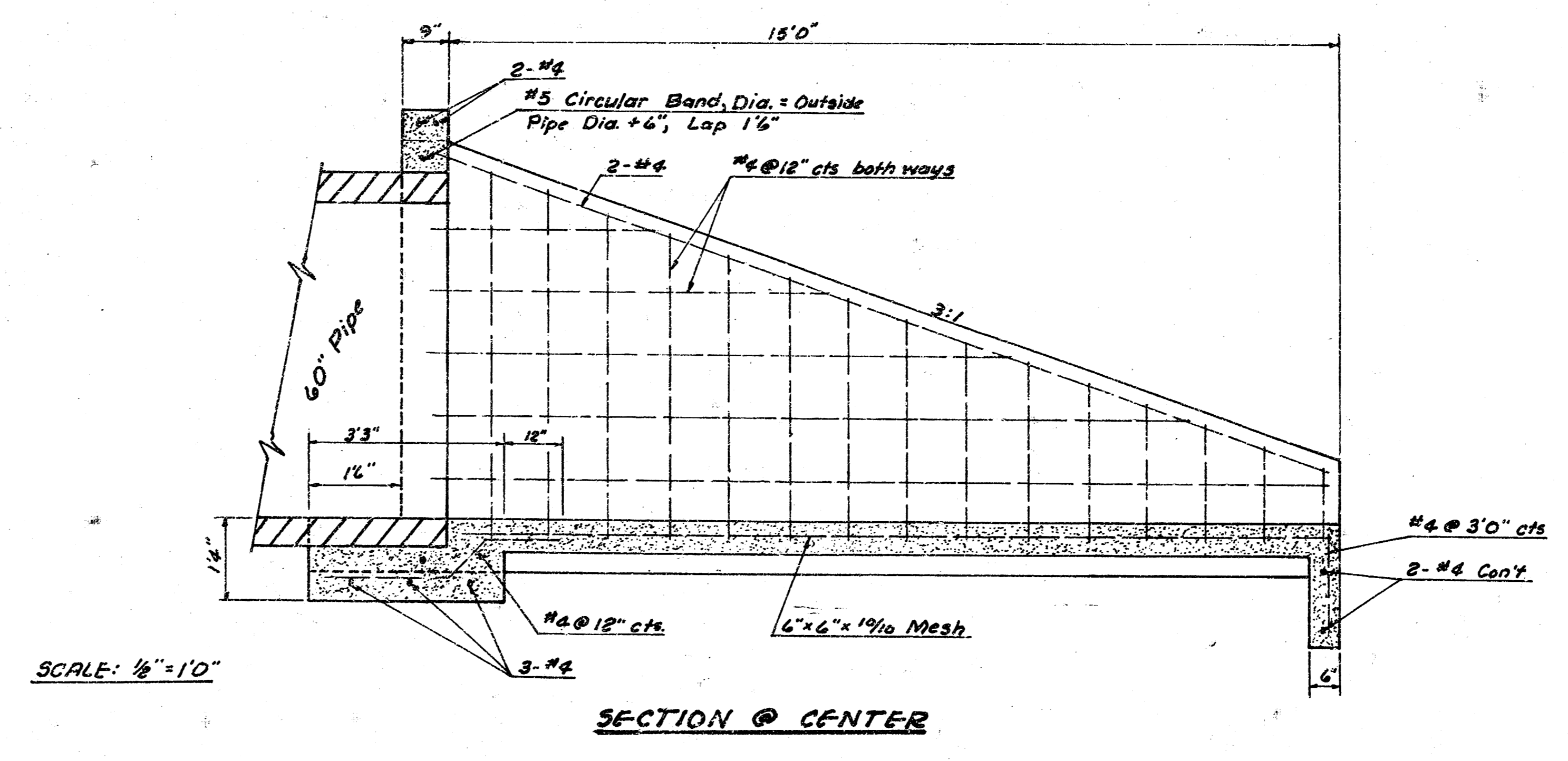
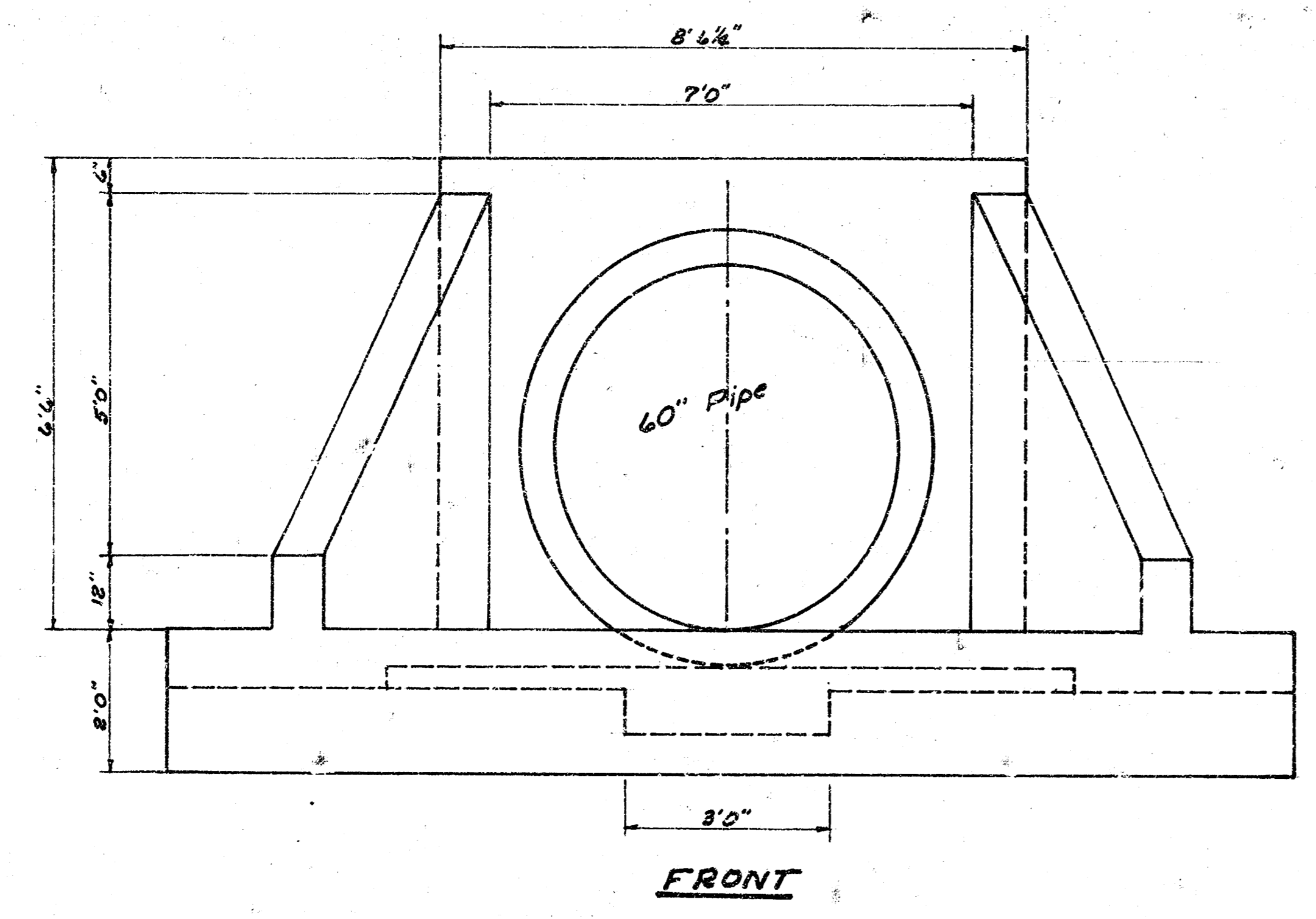
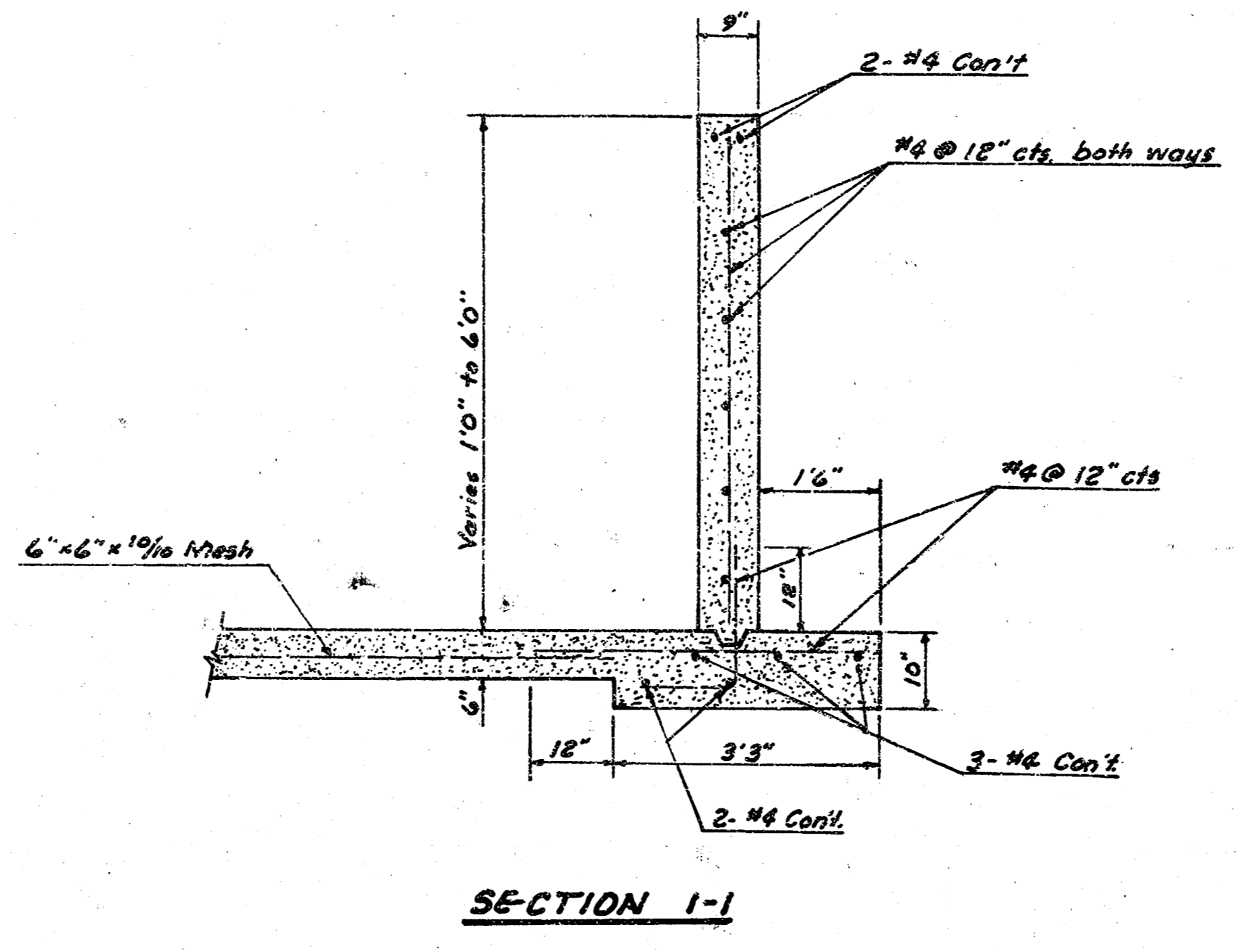
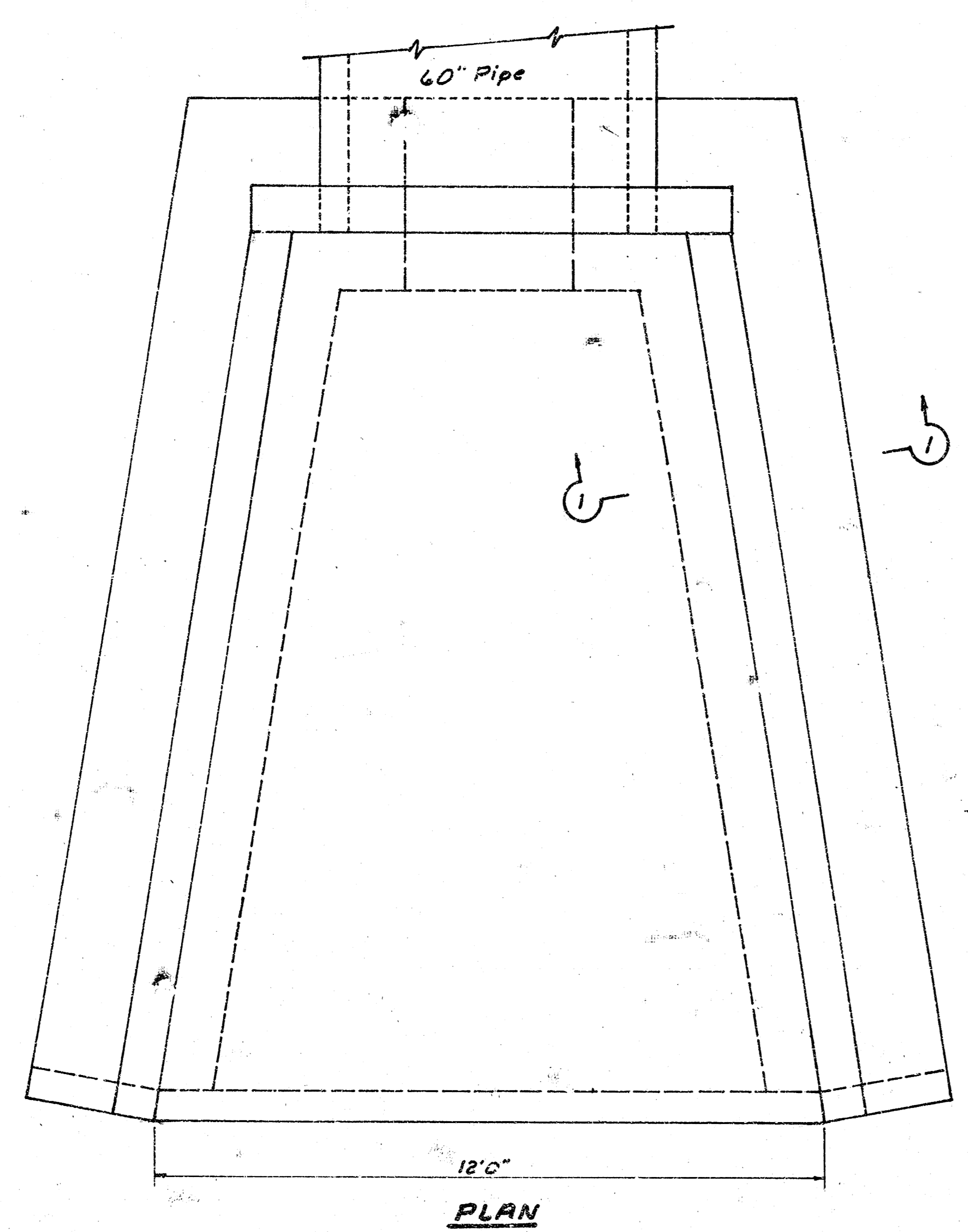
TYPICAL ELEVATION SECTION  
SCALE 1/2" = 1'-0"

STD. RING, CONC. MANHOLE DETAILS



BRICK BARREL DETAIL  
when height less than 4'-0"

1. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 2. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 3. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 4. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 5. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 6. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 7. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 8. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 9. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE  
 10. THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE



SCALE: 1/8" = 1'0"

# STORM WATER SEWER NO. 123

Point or Reach	Drain Area Acre	$t_c$ min	$T_2$	$Q_2$ cfs	Pipe Used, Slope, $Q_u$
T	13.50	19.0	2.95	20.00	24" @ 0.30% = 15.62
T-H	19.44	19.9	2.95	20.00	
H	4.18	15.4	3.27	10.10	
H-G	19.74	30.9	2.37	23.39	30" @ 0.30% = 24.33
G	5.10	13.6	3.44	8.77	
G-F	24.87	33.7	2.24	28.10	36" @ 0.16% = 28.88
F2	30.98	22.1	2.80	43.37	
F2-F1	30.98	22.1	2.80	43.37	50" @ 0.50% = 31.42
F1	14.03	28.6	2.47	13.80	
F1-F	47.01	32.0	2.33	54.77	36" @ 0.50% = 51.05
F	1.85	12.3	3.57	3.30	
F-E	73.73	33.2	2.28	84.05	48" @ 0.25% = 77.80
E	11.70	24.0	2.60	15.21	
E-D	85.43	34.7	2.22	94.83	48" @ 0.30% = 85.23
D	1.77	10.5	3.77	3.34	
D-C	87.20	37.5	2.13	92.87	48" @ 0.30% = 85.23
C1	7.72	22.3	2.79	10.77	
C1-C	7.72	22.3	2.79	10.77	15" @ 1.00% = 7.01
C	1.81	13.3	3.46	3.13	
C-B	24.72	39.3	2.04	29.62	54" @ 0.18% = 20.41
B1	8.27	18.2	3.04	12.65	
B1-B	8.27	18.2	3.04	12.65	21" @ 1.00% = 17.15
B2	11.76	21.1	2.86	14.82	
B2-B	11.76	21.1	2.86	14.82	21" @ 1.00% = 17.15
B	6.23	12.4	3.54	7.53	
B-A	120.98	41.9	1.98	119.77	60" @ 0.18% = 119.68
A	2.46	31.7	2.34	11.07	
A-Out	130.44	42.7	1.94	127.83	60" @ 0.21% = 129.27

