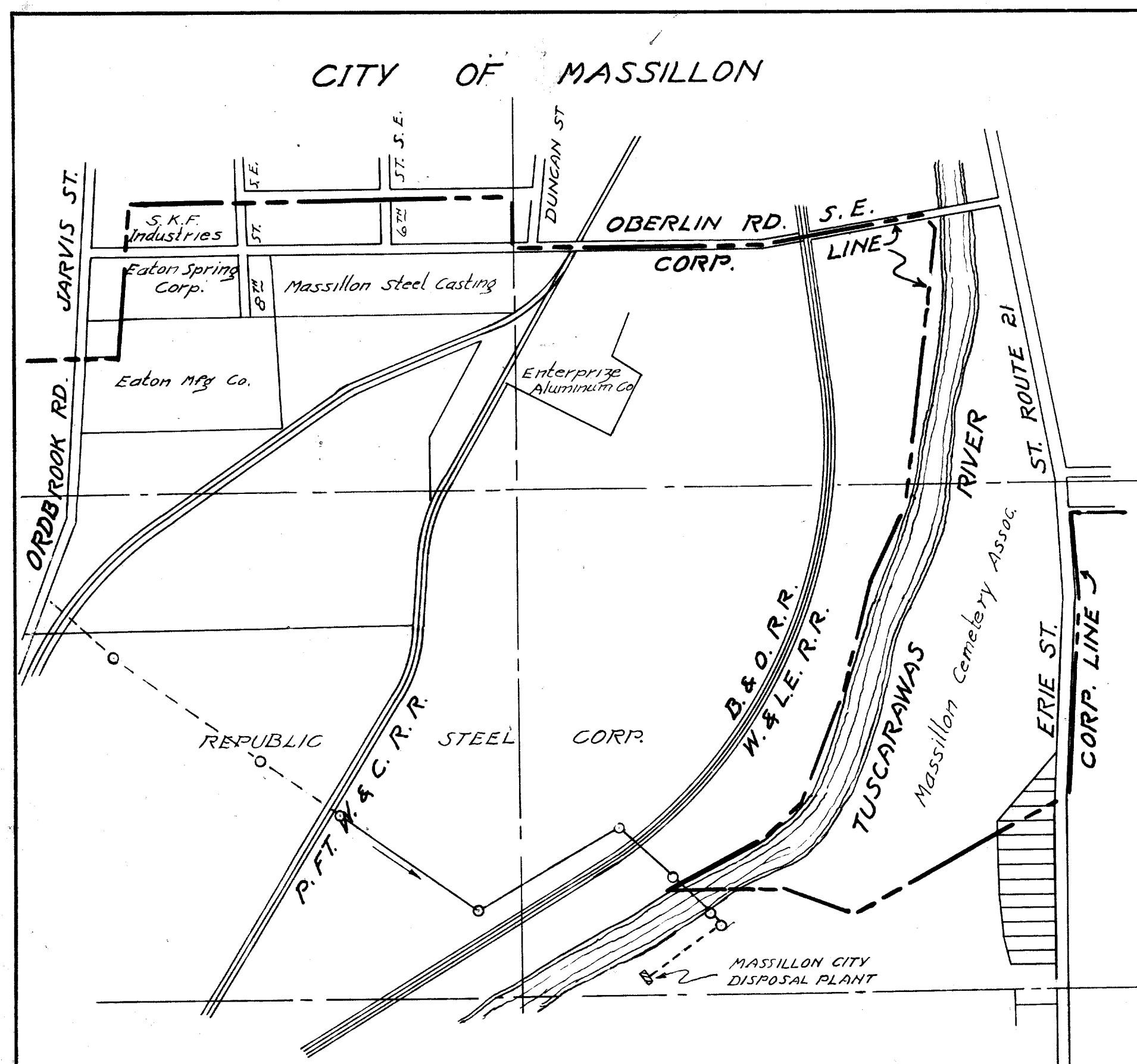




LOCATION MAP

NOTE;

THE TOTAL RATE OF INFILTRATION SHALL NOT EXCEED 500 GALLONS PER INCH OF DIAMETER PER MILES OF LENGTH PER 24 HOURS.

ANY SEWER OR PART OF SEWER SHOWING INFILTRATION GREATER THAN THE ALLOWABLE AMOUNT WILL NOT BE ACCEPTED AND MUST BE REPAIRED OR REBUILT BY THE CONTRACTOR.

MEASUREMENTS OF INFILTRATION WILL BE MADE BY PLACING A 90° TRIANGULAR WIER IN THE MANHOLES USING FORMULA $FLOW CU. FT. PER SEC. = 2.54 H^{5/2}$ OR BY ANY OTHER APPROVED FLOW MEASURING DEVICE OR METHOD APPROVED BY THE CONTRACTOR, THE MASSILLON CITY ENGINEER AND THE COUNTY SANITARY ENGINEER

DETAILED PLANS PART TRUNK SEWER PROJECT No 345-A

MOFFIT HEIGHTS SEWER DISTRICT No. 27

STARK COUNTY, OHIO
1964

APPROVED
REPUBLIC STEEL CORP.
ASBESTOS ZINK CLAD REPUBLIC FREE
FLOW SEWER PIPE
DATE 3-1-1965
STARK COUNTY SANITARY ENGINEER

APPROVED
MASSILLON CITY ENGINEER
STARK COUNTY SANITARY ENGINEER
STARK COUNTY COMMISSIONERS

DATE
Nov. 6, 1964
Sept 30-1964
Oct-5-64
Oct-5-64
Oct 5, 1964

REVISED
AS CONSTRUCTED
1966

FINAL MEASUREMENTS F.B. No 255 Pages 20 to 28

SHEET No	DESCRIPTION
2	SEWER PLAN & PROFILE
3	" " " "
4	DETAIL SPECIAL M.H.'S & SIPHON
5	DETAIL OF BORING & SUMMARY OF QUANTITIES
6	DETAIL STANDARD MANHOLES

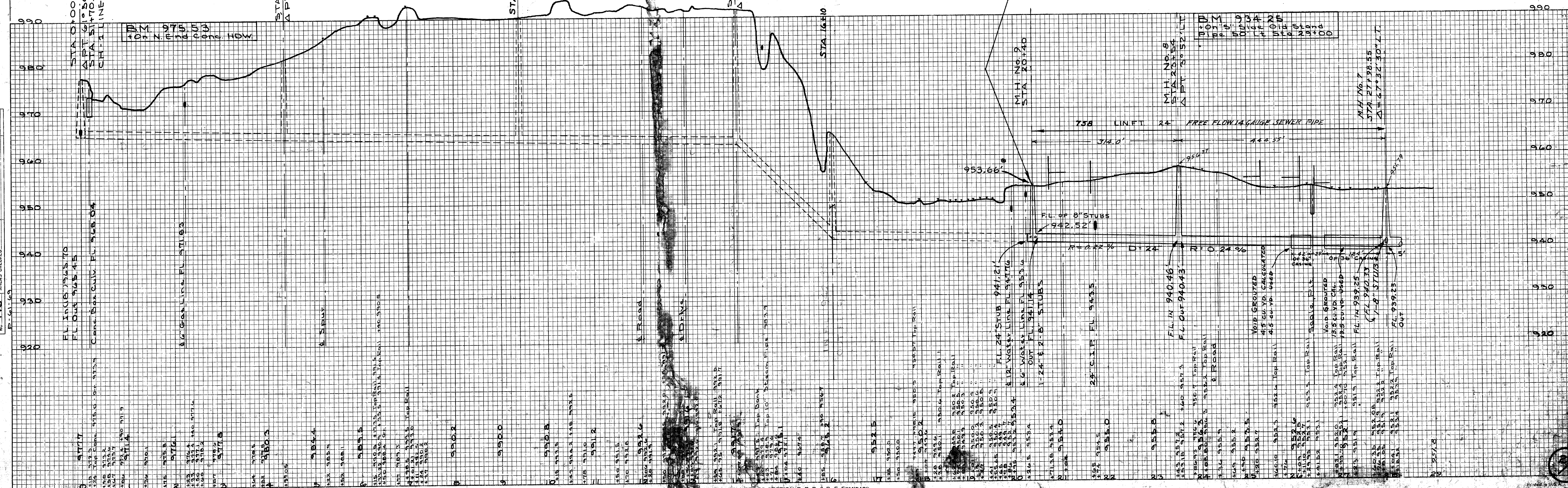
STARK COUNTY, OHIO			
DESIGNED	DRAWN	CHECKED	REVIEWED
A.T.H.	A.J.H. JUNE 1964	J.E.M.E.	S.M.S.

PROJECT NO. 345-A

FILE 9

FINAL	SURVEY	DATE
NO. 1-4-3	NO. 1-4-3	NO. 1-4-3
NO. 1-4-3	NO. 1-4-3	NO. 1-4-3
NO. 1-4-3	NO. 1-4-3	NO. 1-4-3

ORIGINAL	SURVEY	DATE
NO. 1-4-3	NO. 1-4-3	NO. 1-4-3
NO. 1-4-3	NO. 1-4-3	NO. 1-4-3
NO. 1-4-3	NO. 1-4-3	NO. 1-4-3



FUTURE COUNTY CONSTRUCTION

END OF PROPOSED CONSTRUCTION BY REPUBLIC STEEL CORP.

ALTERNATE LINE CHANGE

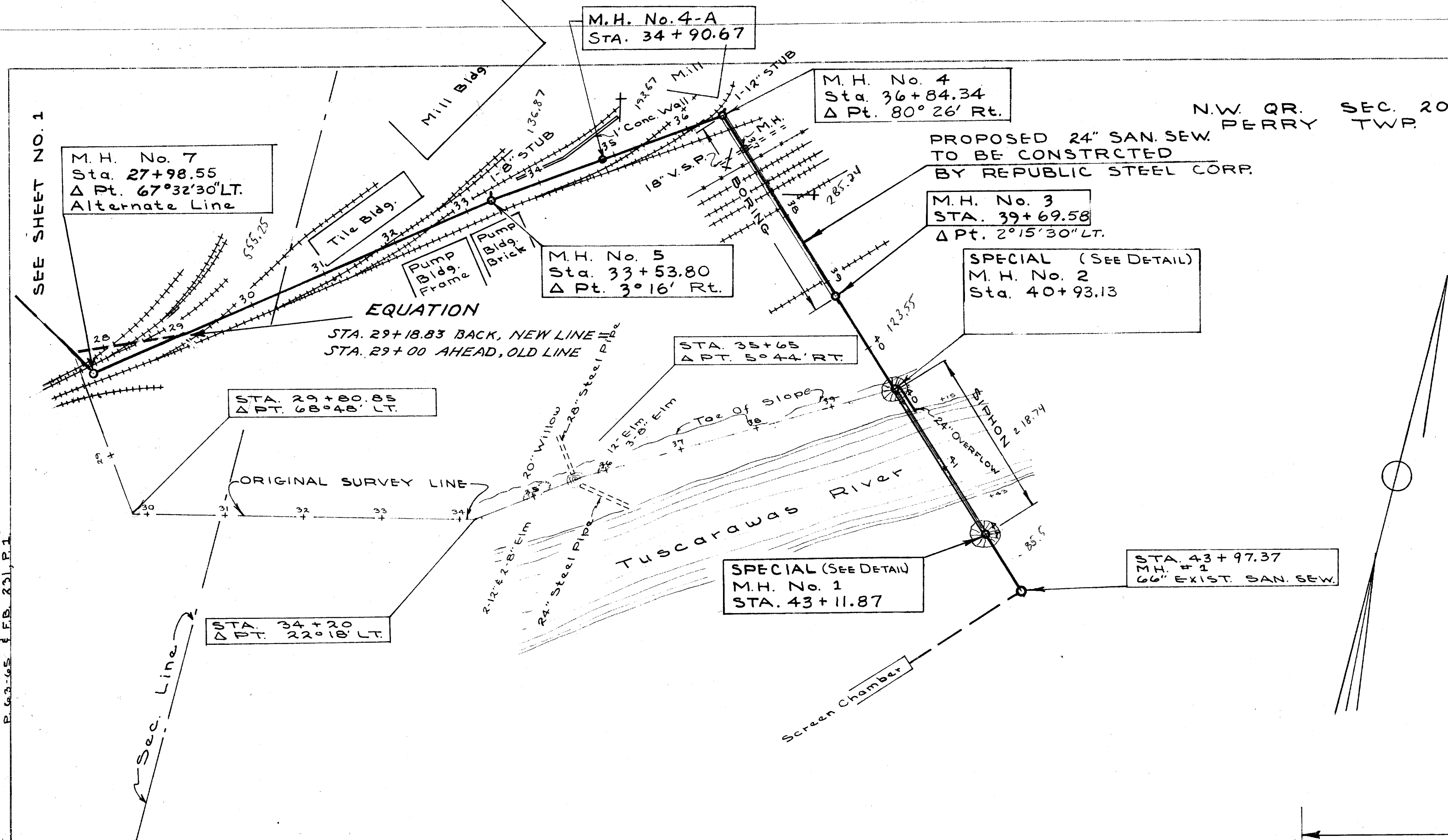
M.H. No. 7
STA. 27+98.55
Δ = 67°32'30" LT.

REVISED	DATE
STA. 27+60.35 TO STA. 29+00	12-64
24" Pipe Changed to Republic Free Flow	2-65
REVISED	3-65
Revised as Constructed	1-66
REVISED	3-66

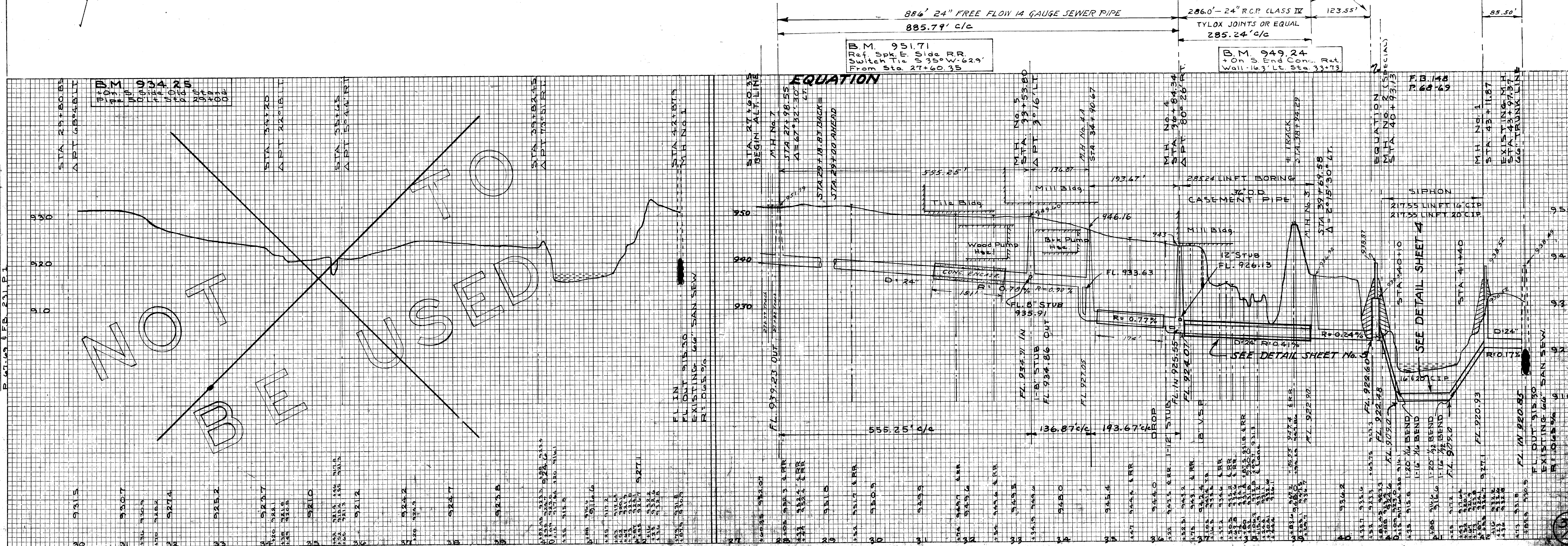
SANITARY SEWER - REPUBLIC STEEL CORP MASSILLON, O.
PART OF PROJECT No. 345 - MOFFET HTS. SEWER DIST. No. 27 FM

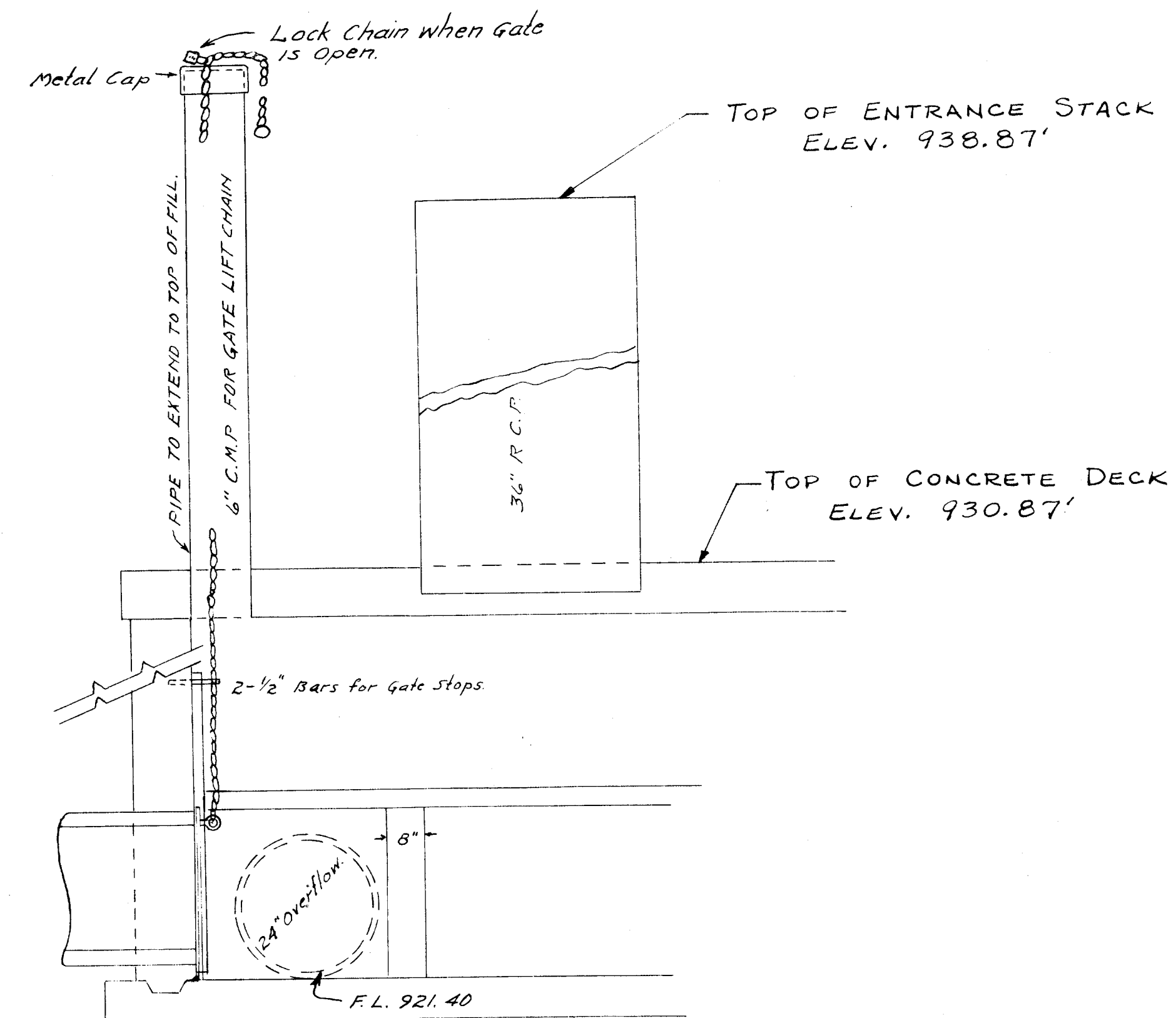
DATE	BY	REVISION
1/2-64	J.H.H.	1. SURVEYED
3-65	J.H.H.	2. PLOTTED
1-66	J.H.H.	3. NOTE BOOK
3-66	J.H.H.	4. AREAS CHECKED

DATE	BY	REVISION
1/2-64	J.H.H.	1. SURVEYED
3-65	J.H.H.	2. PLOTTED
1-66	J.H.H.	3. NOTE BOOK
3-66	J.H.H.	4. AREAS CHECKED

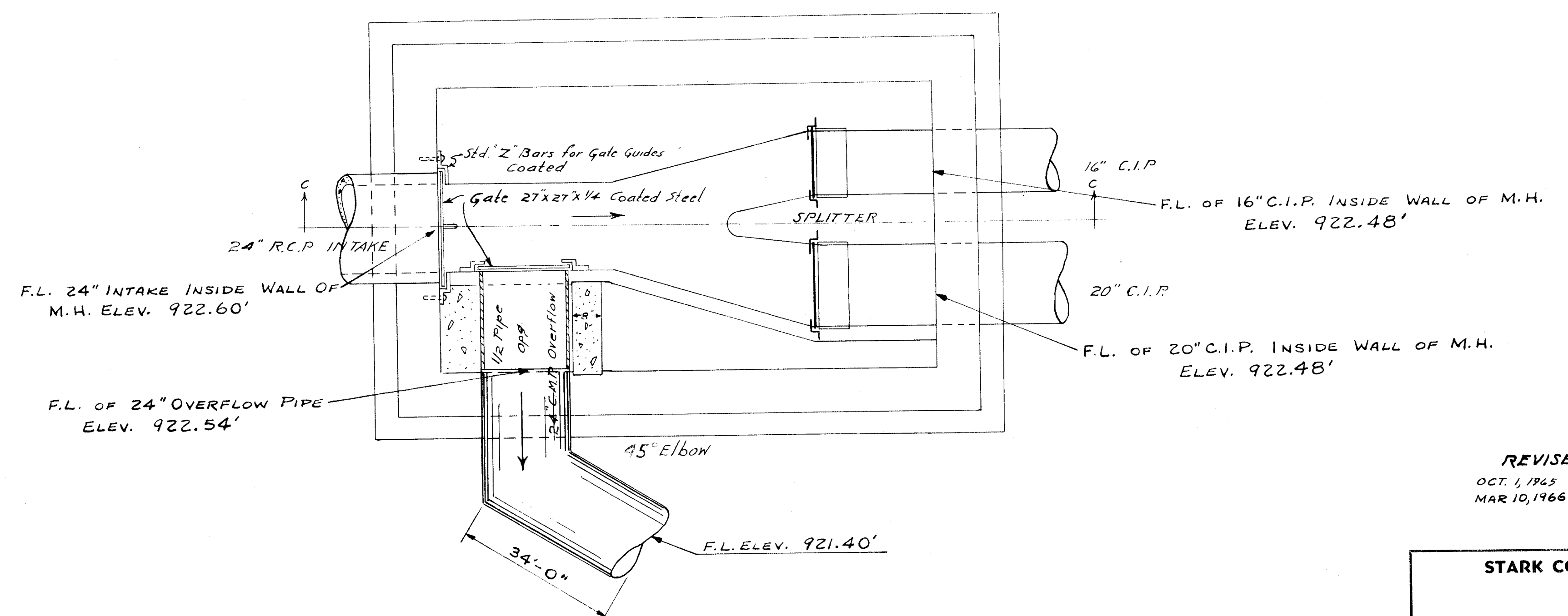


REVISED	DATE
STA. 27+40.35 TO STA. 29+00	12-64
24" PIPE CHANGED TO REPUBLIC FREE FLOW	2-65
REVISED	3-65
REVISED AS CONSTRUCTED	1-66
REVISED	3-66





SEC. C-C Scale 1/2"=1'-0"



REVISED PLAN SIPHON M. H. No. 2
SHOWING CHANGE IN SLUICE GATES

SEE SHEET 4 FOR DETAILS

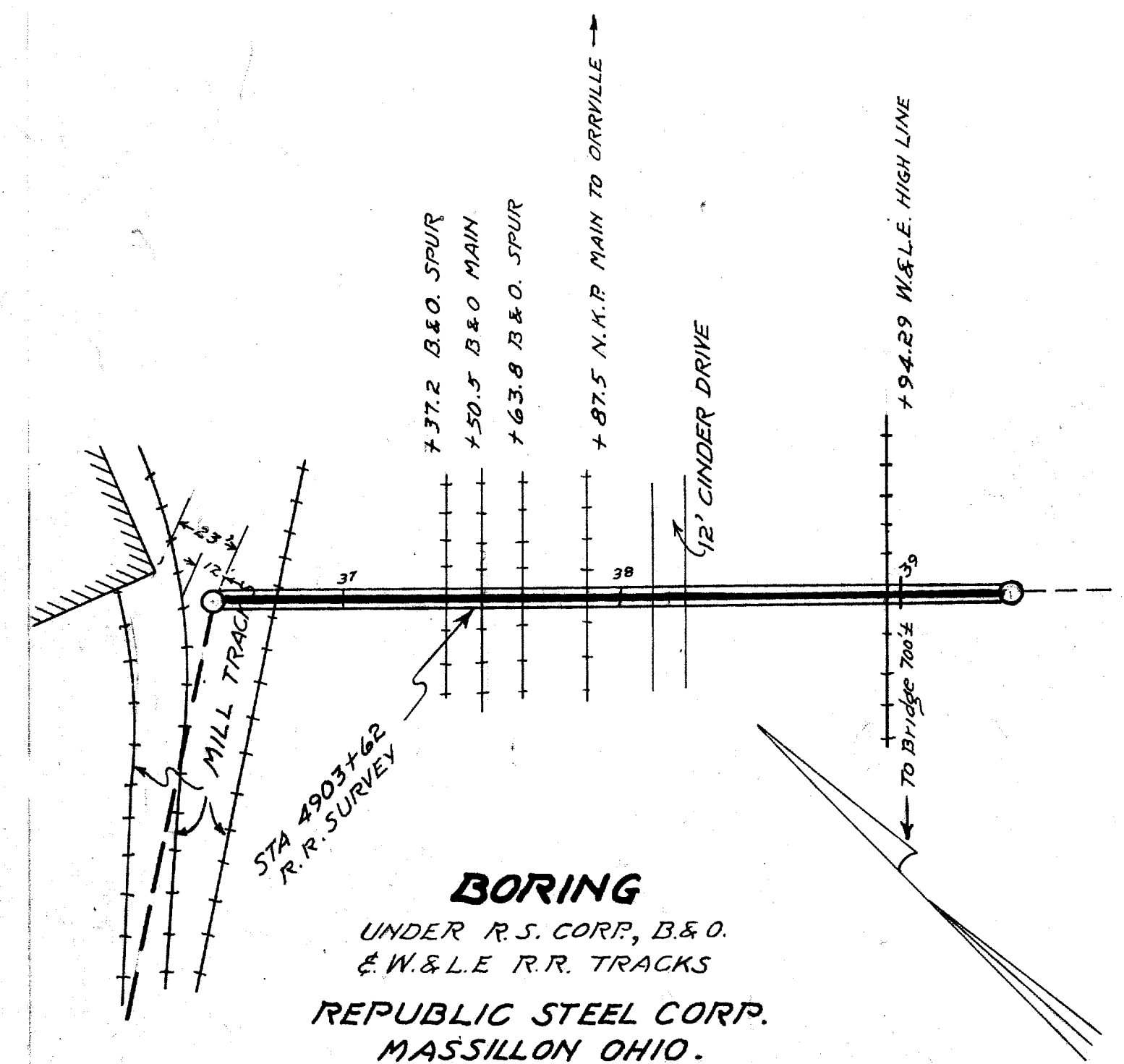
REVISED
OCT. 1, 1965 A.J.H.
MAR 10, 1966 J.R.M.

STARK COUNTY, OHIO			
4A 6			
DESIGNED A.J.H. Oct. 1, 1965	DRAWN A.J.H. Oct. 1, 1965	CHECKED	REVIEWED A.T.H. Oct. 1, 1965

PROJECT No. 345A MOFFIT HTS SEWER DIST No. 27

FILE 9

FINAL SURVEY NO. 237
DATE BY
NOTE BOOK AREAS CHECKED

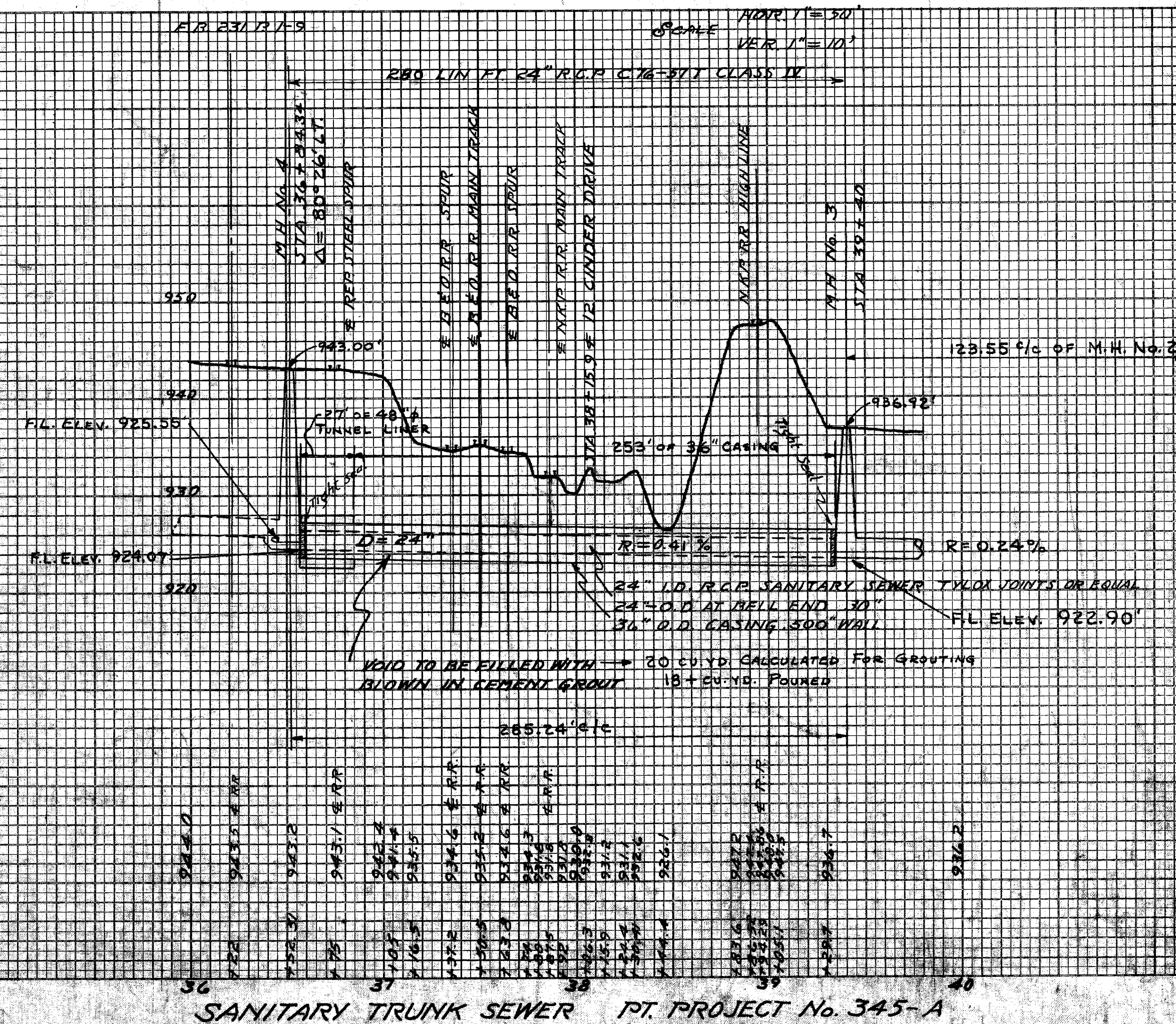


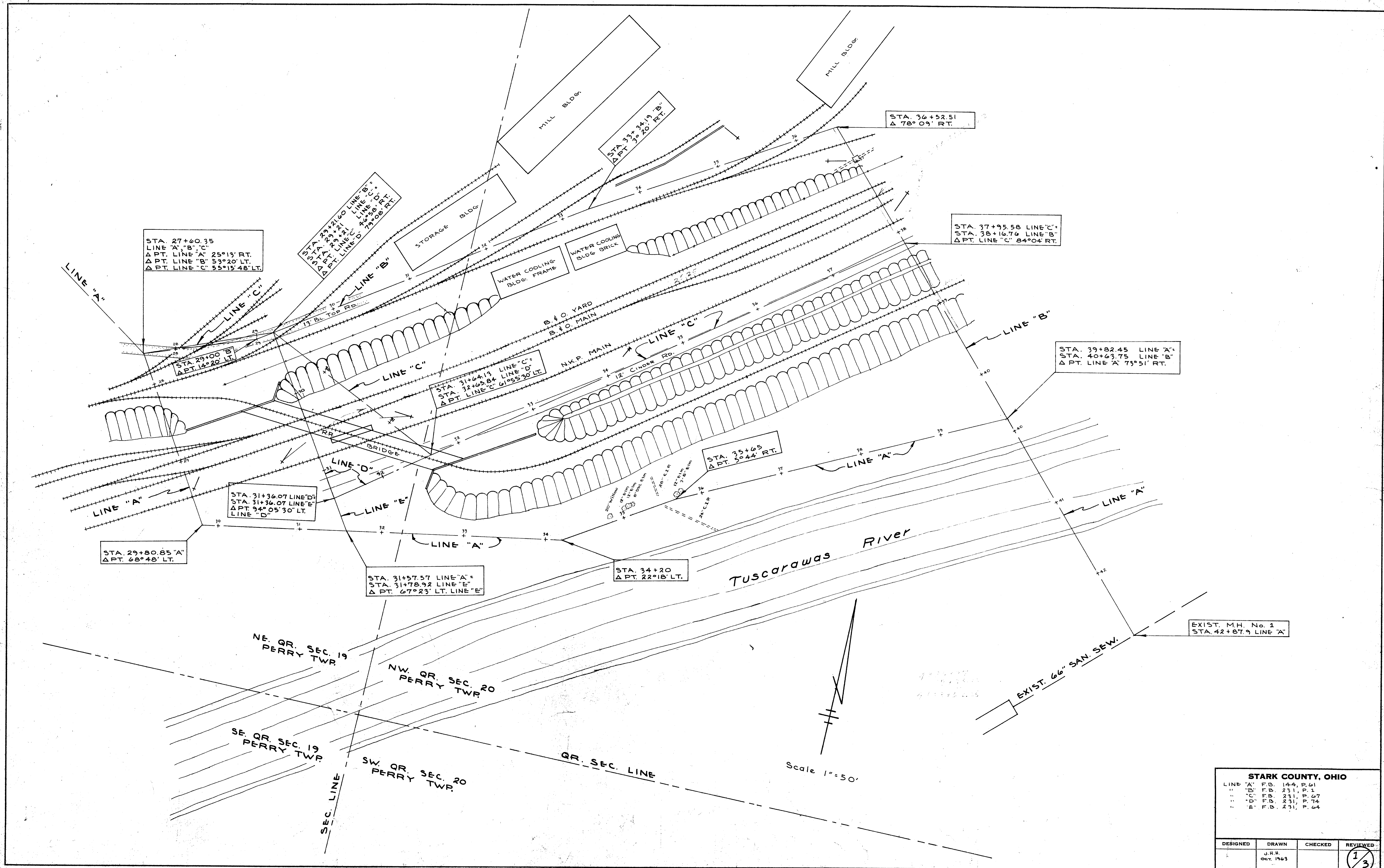
ESTIMATED QUANTITIES
PROJECT No. 345-A

ESTIMATED QUANTITIES PROJECT No. 345-A			ITEM																						
			Pre-Cast Concrete Manholes Complete Including Cast Iron Covers and Steps in Place	Special Reinforced Concrete Manholes for Siphon See Detail for Manholes No. 1 and 2	Standard Drop Attachment for Manholes Using 12" Free Flow Pipe	24" Reinforced Concrete Sewer Pipe and Laid with "Tylox" Joints or Equal in Place (See Detail Plans)	12" VIT Pipe Flow Metal Pipe Stopper	8" VIT Pipe Stub in Place Incl. Stopper Sealed in Place	24" Corrugated Metal Pipe Overflow Sealed in Place Incl. (See Detail Plan)	1:6 Grout Pipe Encasement in Place	Washed Gravel in Place for Sewer Trench in Bottom of Boring Under Railroad Tracks Using 36" O.D. Steel Casement (See Detail Plans)	Rock Excavation	Shale Excavation	Earth Embankment Compacted in Place (See Detail Plans)	Slag in Place on Roadways and Storage Yards	1:3 1/2 Concrete for Siphon Pipe Encasement									
TRUNK SEWER	FROM	TO	NO	V.F.	LUMP	V.F.	L.F.	L.F.	LUMP	EACH	EA.	EA.	L.F.	C.Y.	TONS	L.F.	M.F.	C.Y.	C.Y.	C.Y.	TONS	C.Y.			
SHEET No. 2	STA. 20+40	STA. 27+97.73	3	41			758			1		3	18	5		15				45					
SHEET No. 3	STA. 27+97.73	STA. 42+87.90	4	67	1	8	1086	280	1		1	1	40	55	15	280		10	15	390		60			
TOTALS			7	108	1	8	1844	280	1	1	1	4	40	73	20	280		25	15	390	45	60			

NOTE:
ALL 24" PIPE TO BE ASBESTOS ZINK
CLAD REPUBLIC FREE FLOW SEWER PIPE 14 GAUGE,
EXCEPT AT INVERT SIPHON AND R.R. BORINGS.
FOR FURTHER INFORMATION CONTACT REPUBLIC
STEEL CORP.

ORIGINAL SURVEY NO. 237
DATE BY
NOTE BOOK AREAS CHECKED





STARK COUNTY, OHIO			
LINE "A" F.D. 144, P. 61 " " " " F.D. 231, P. 2 " " " " F.D. 231, P. 67 " " " " F.D. 231, P. 74 " " " " F.D. 231, P. 64			
DESIGNED	DRAWN	CHECKED	REVIEWED
	J.H.M. Oct. 1963		1/3

PROPOSED ALTERNATE SAN. SEW. LINES "A", "B", "C", "D" & "E" REPUBLIC STEEL PROPERTY
 PART OF PROJECT 345 MOFFIT HTS. S.D. No. 27 FILE 2

NO.	DATE	BY	CHECKED
1	10/15/63	JAMR	WBS
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NO.	DATE	BY	CHECKED
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NO.	DATE	BY	CHKD.
1	10/15/54	W. J. H. H.	W. J. H. H.
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B.M. 949.24
1.5' EMB. CONC. PILE
W/OUT 16" LK. SEC. 92.73
LINE "D"

STA 27+40.33
A.P. 13-15-16-17

STA 27+40.33
A.P. 13-15-16-17

STA 27+40.33
A.P. 13-15-16-17

STA 27+40.33
A.P. 13-15-16-17

PROFILE LINE "C"
F.B. 231.5.72

B.M. 934.85
1.5' EMB. CONC. PILE
W/OUT 16" LK. SEC. 92.73
LINE "D"

STA 37+55.58
A.P. 13-15-16-17

B.M. 949.24
1.5' EMB. CONC. PILE
W/OUT 16" LK. SEC. 92.73
LINE "D"

PROFILE LINE "D"
F.B. 231.5.72

B.M. 934.85
1.5' EMB. CONC. PILE
W/OUT 16" LK. SEC. 92.73
LINE "D"

PROFILE LINE "E"
F.B. 231.5.72

NO.	DATE	BY	CHKD.
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STA 27+40.33
A.P. 13-15-16-17

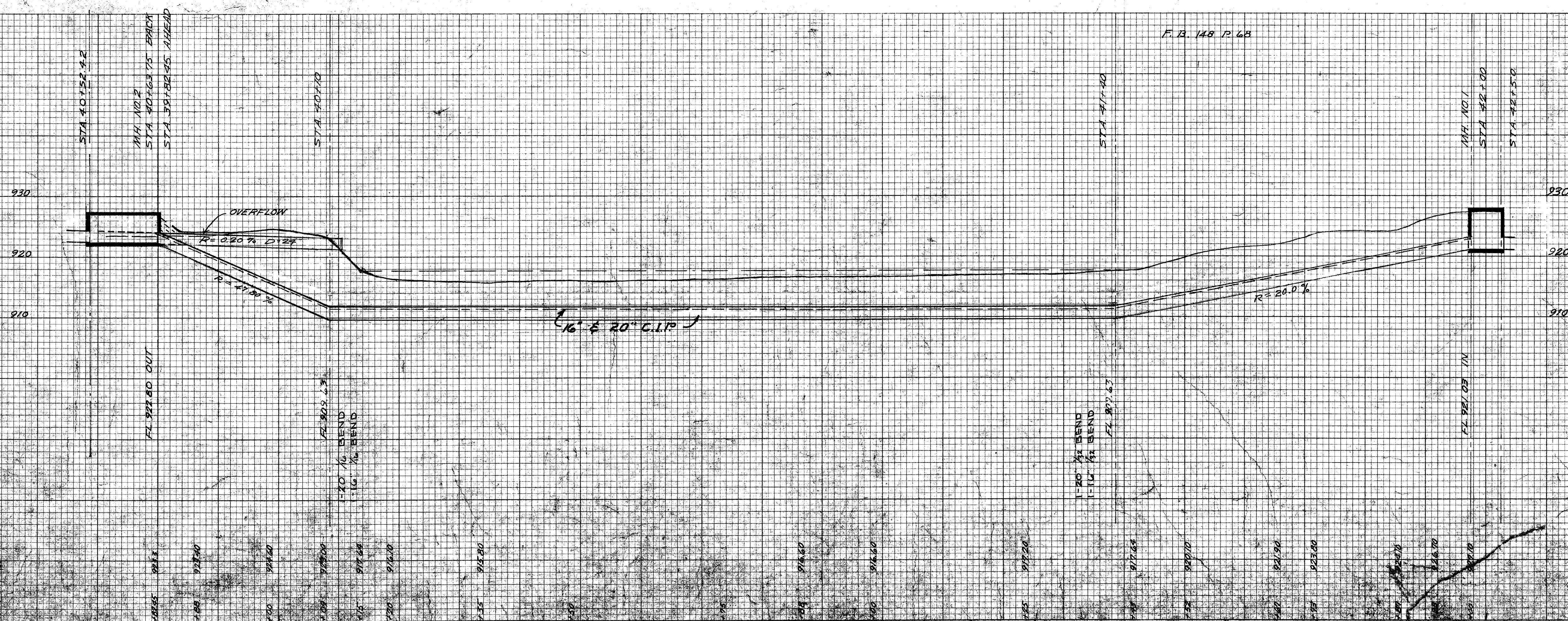
STA 27+40.33
A.P. 13-15-16-17

STA 27+40.33
A.P. 13-15-16-17

STA 37+55.58
A.P. 13-15-16-17

STA 37+55.58
A.P. 13-15-16-17

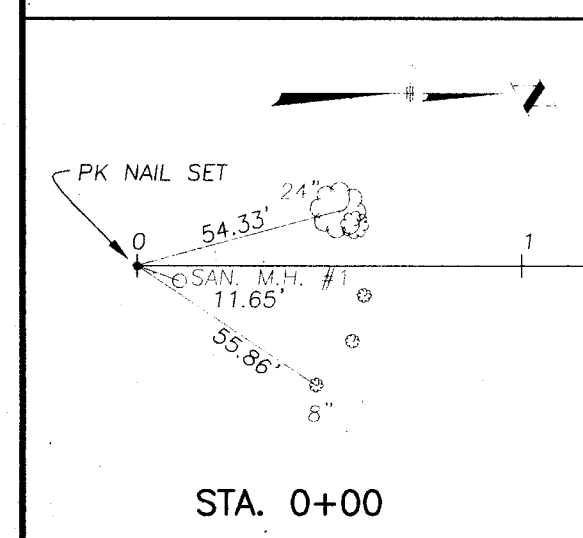
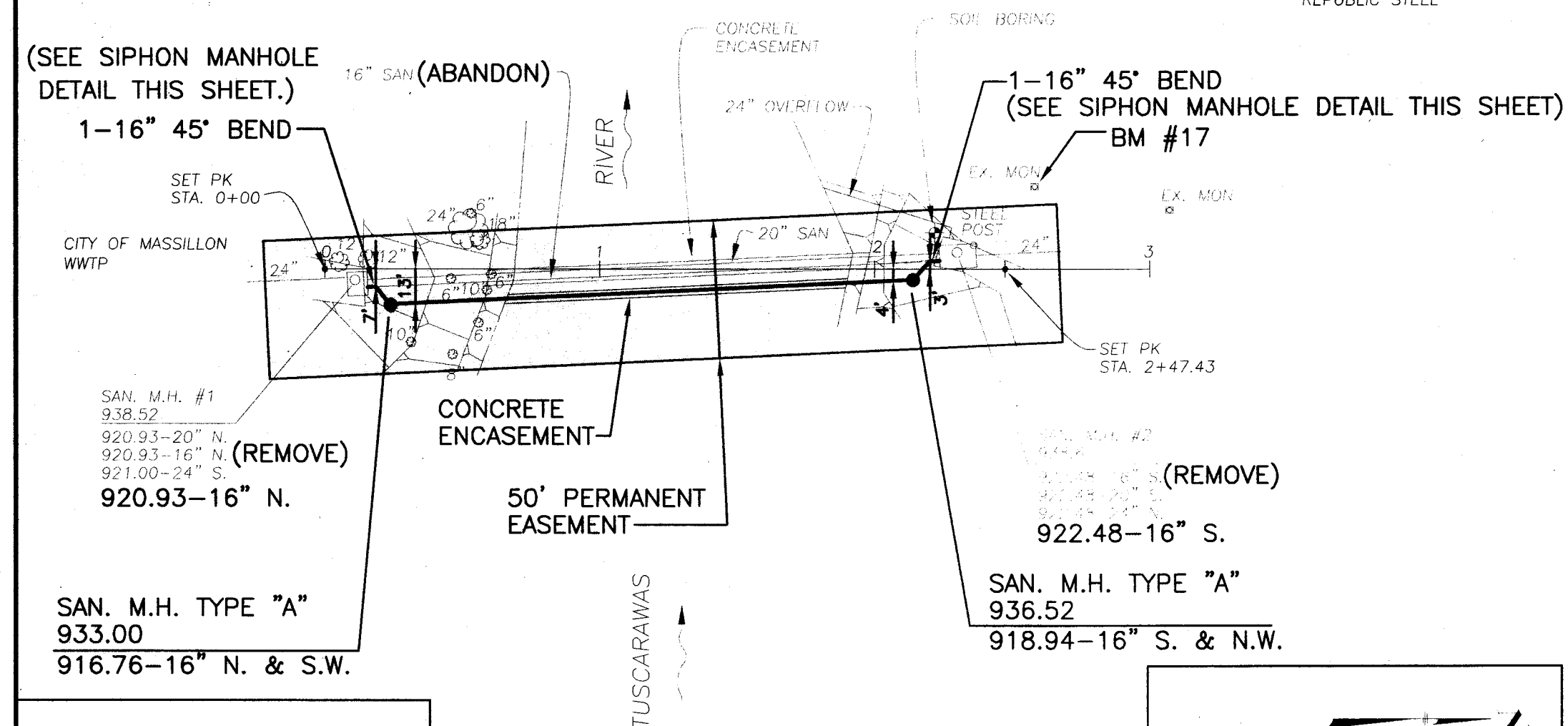
ORIGINAL	DATE
SURVEY	
NOTED	
PLOTTED	
INDEXED	
FILED	
REMARKS	
DATE	
TIME	
BY	
NO. 148	



REVISED 6-19-65

DETAIL SIPHON - REPUBLIC STEEL CORP MASSILLON, OHIO
PART OF PROJECT NO. 345 - MOHAWK MTS SEWER DISTRICT NO. 27 FILE # 9

REPUBLIC STEEL



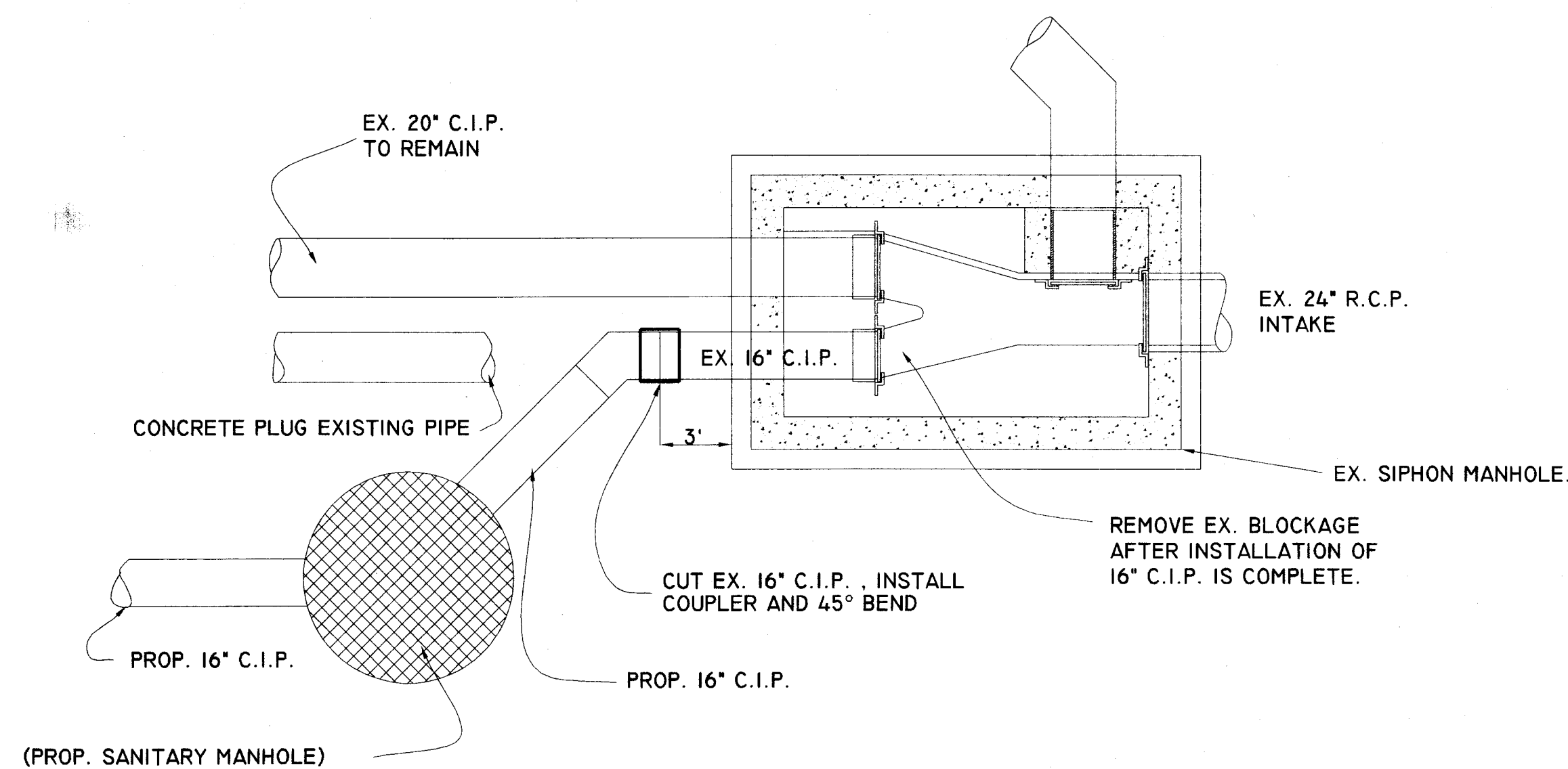
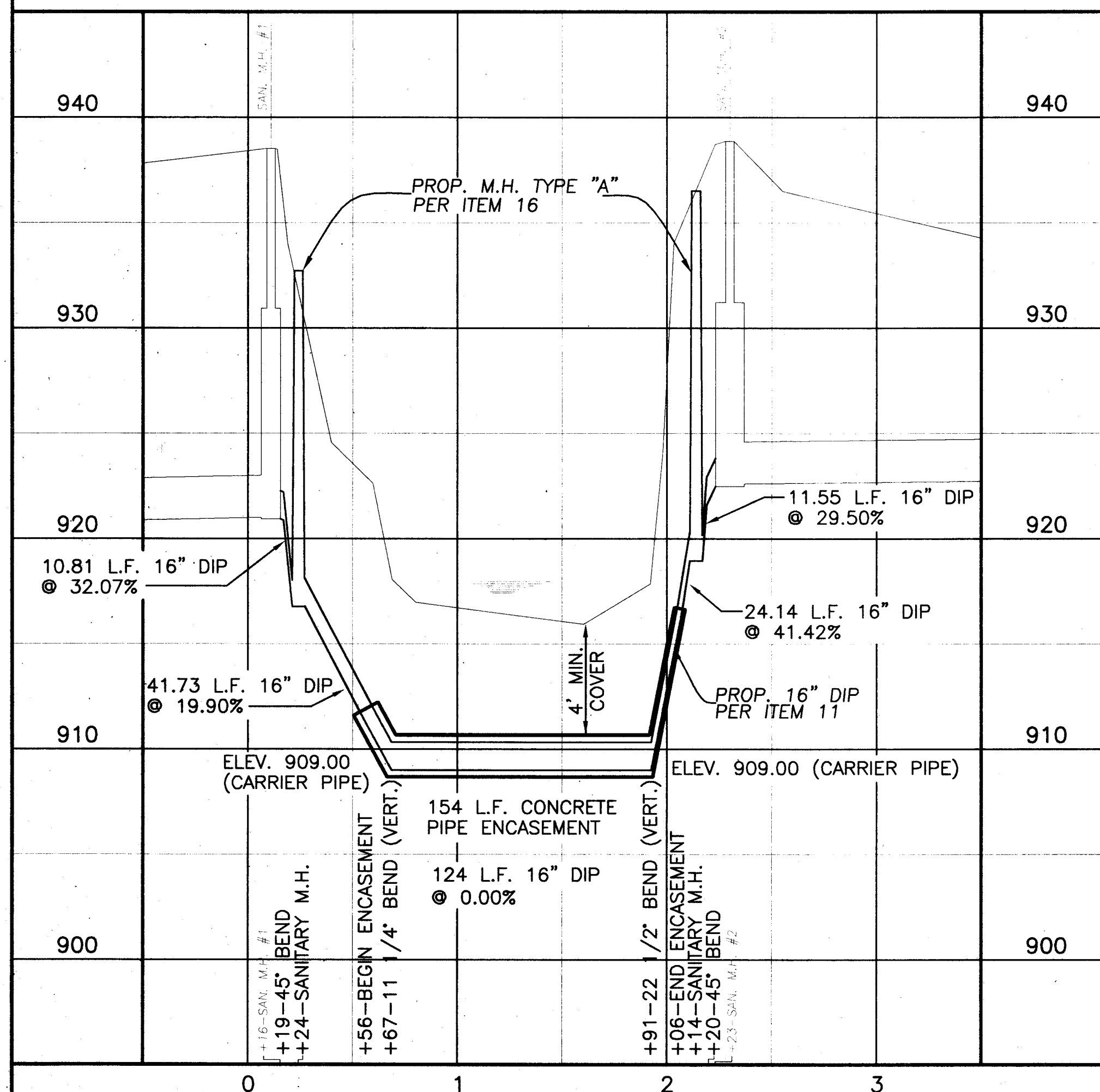
MOFFIT SIPHON

NOTES

- 1) REQUIREMENTS OF THE ARMY CORPS OF ENGINEERS REGIONAL PERMIT FOR SUBMARINE UTILITY CROSSINGS IN OHIO MUST BE MET. ALL REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY MUST BE MET.
- 2) CUT EX. 16" C.I.P. 3' FROM OUTSIDE WALL OF SIPHON MANHOLE. INSTALL COUPLER AND 45" BEND. PLACE CONCRETE PLUG IN ABANDONED 16" PIPE.
- 3) MANHOLE LIDS SHALL BE WATERPROOF AS PER DETAIL DRAWING NO. 13.
- 4) CONCRETE ENCASEMENT SHALL BE PER DETAIL DRAWING NO. 4.
- 5) SEE SHEET NO. 5 FOR EXISTING SIPHON SITE DRAWINGS (1966 AS-BUILTS). NOTE: DO NOT USE ELEVATIONS SHOWN ON SHEET NO. 5.

F.P.S. BENCHMARK #17

ARMY CORPS OF
ENGINEERS MONUMENT
ELEV. 933.28



SIPHON MANHOLE DETAIL (TYP.)

(NTS)

[illegible]

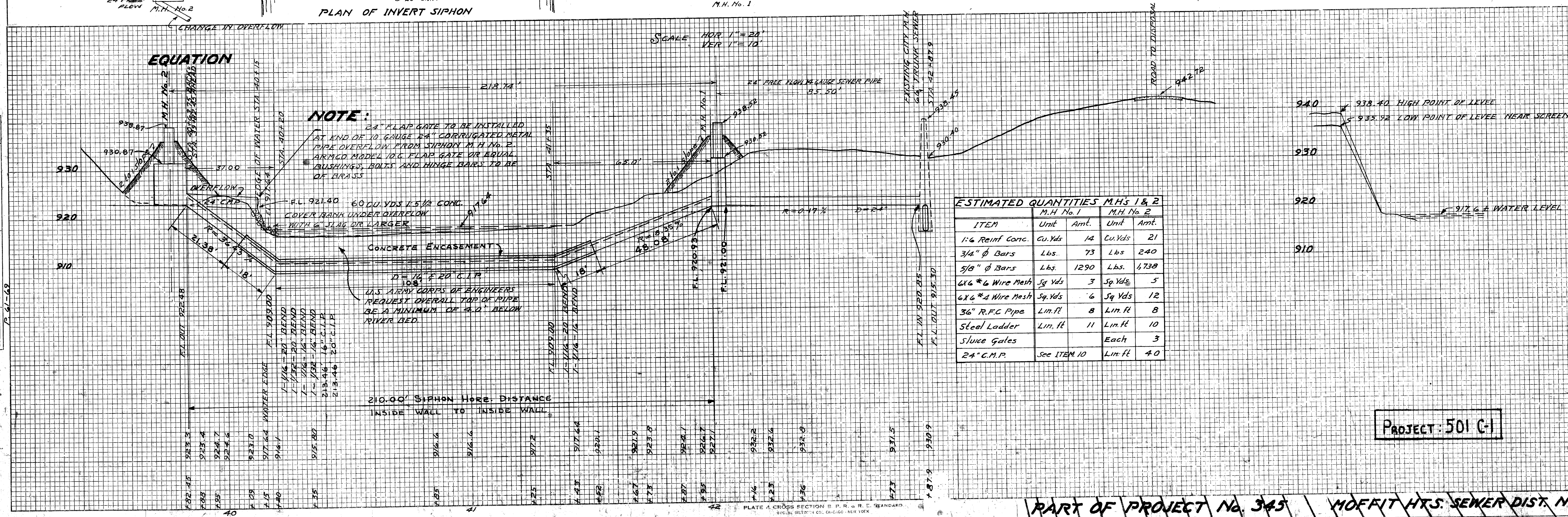
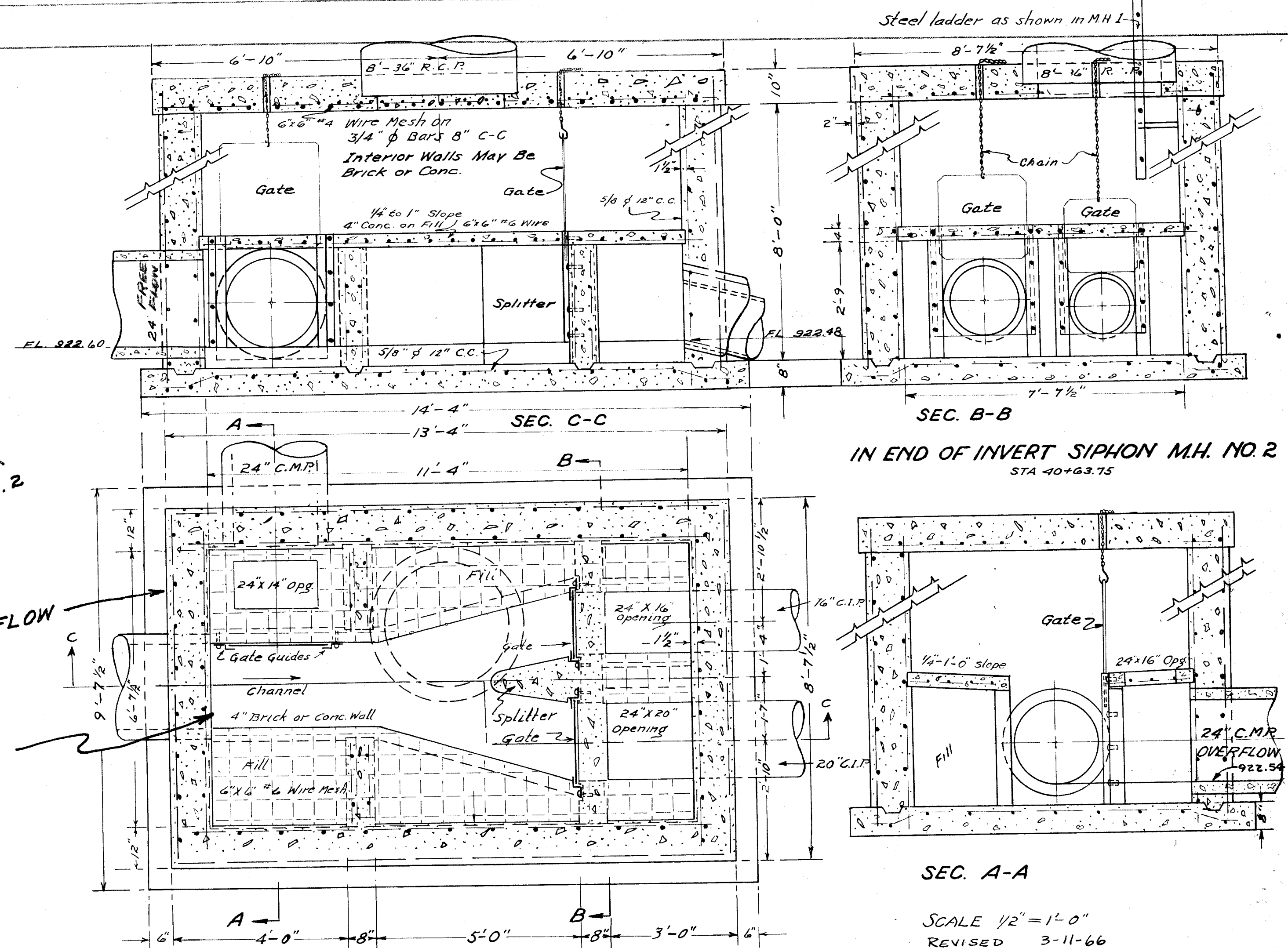
FINKBEINER, PETTIS & STROUT, INC.
CONSULTING ENGINEERS
AKRON, OHIO

SCALE
HORZ. 1" = 50'
VERT. 1" = 5'
DESIGNED BY
J.L.O.
DRAWN BY
D.M.S.
CHECKED BY
G.G.A./G.L.B.

MOFFIT SIPHON
SANITARY SEWER
IMPROVEMENTS
STARK COUNTY, OHIO

CAD NUMBER	SKMUS001
PROJECT NUMBER	501
CONTRACT	1
DATE	03/02/99
4	OF 23

ORIGINAL	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED	A.J.H.	7-68
	TEMPLATE		
	AREAS		



PART OF PROJECT No. 345 MOFFIT HTS. SEWER DIST. No. 27
ON REPUBLIC STEEL PROPERTY AT MASSILLON OHIO FILE 18