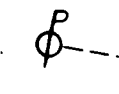
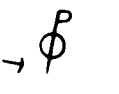
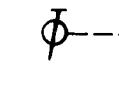
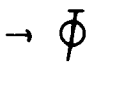


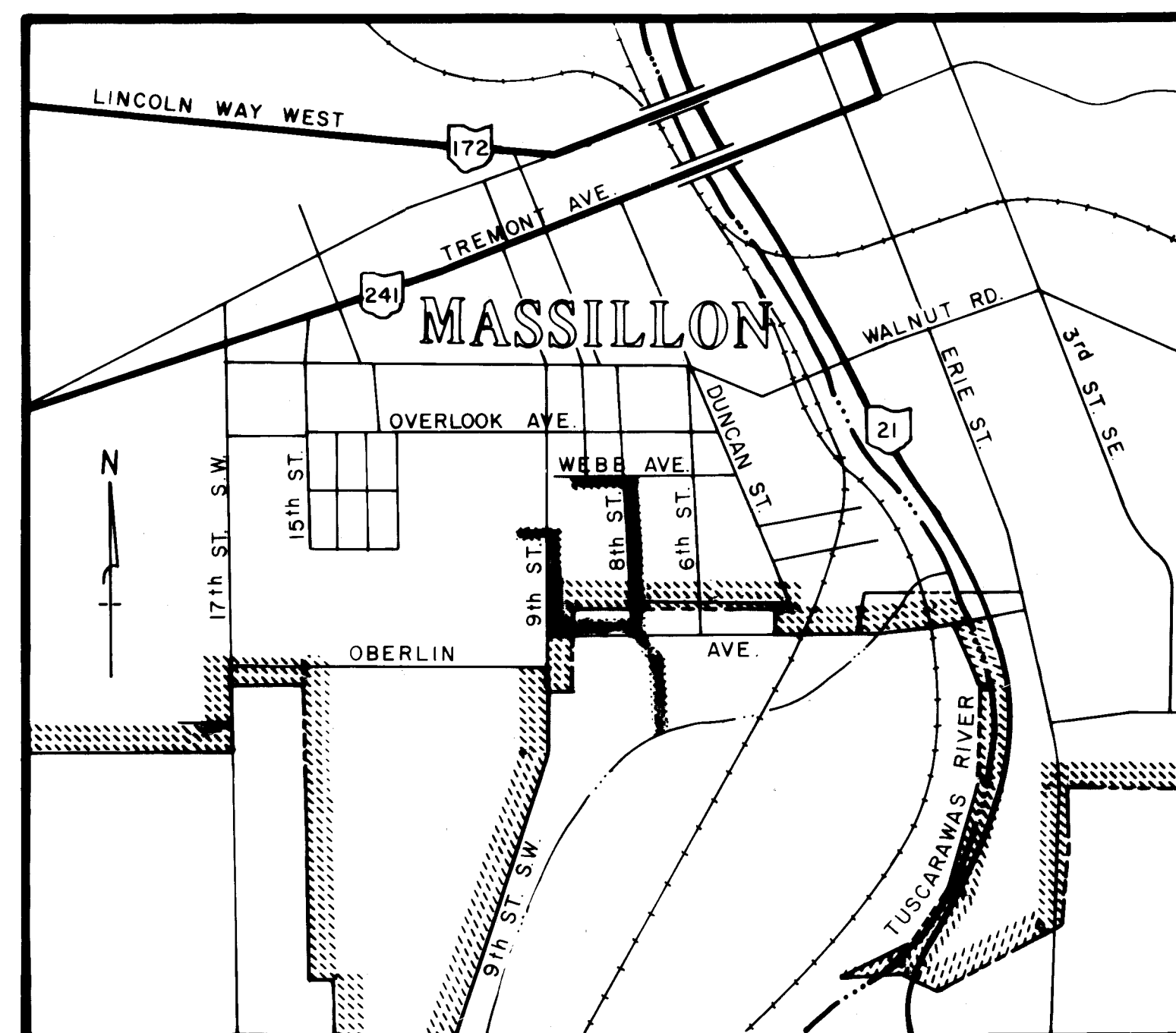
WEST PARK STORM SEWER

CITY OF MASSILLON
STARK COUNTY, OHIO
JUNE, 1977

CONVENTIONAL SIGNS

CORPORATION LINE	---
CENTER LINE	---
RIGHT OF WAY LINE	---
PROPERTY LINE	---
TREES (EXISTING)	  
TREES (TO BE REMOVED)	  
POWER POLES	  
TELEPHONE POLES	  
GAS LINES	—G—G—
WATER LINES	—W—W—
STORM SEWER (EXISTING)	==C==
STORM SEWER (PROPOSED)	—C.B.—M.H.—
SANITARY SEWER (EXISTING)	—S—S—
FIRE HYDRANT	  
GAS OR WATER VALVE	—X—
ELECTRIC LINES	—E—E—
BURIED TELEPHONE LINES	—BT—BT—
OVERHEAD TELEPHONE LINES	—OT—OT—

LOCATION MAP



0' 1500' 3000'
SCALE IN FEET

PROPOSED STORM SEWER ————
STATE HIGHWAYS ————
CITY STREETS ————
CORPORATION LINE ————

INDEX OF SHEETS

TITLE SHEET	1
SCHEMATIC PLAN OF STORM SEWER	2
PLAN & PROFILE OF STORM SEWER	3 TO 8
STANDARD DETAILS	9 & 9-A

I HEREBY APPROVE THESE PLANS

APPROVED _____
DATE _____ DIRECTOR OF SAFETY & SERVICE

APPROVED _____
DATE _____ CITY ENGINEER

HAMMONTREE & ASSOCIATES
ENGINEERS & SURVEYORS
NORTH CANTON, OHIO
PHONE 498-8817
AKRON: 633-7274



DATE: _____
SCALE: _____
DWG. NO. 114-12

FILE NO - SE - 565 ACC NO 2778



EXISTING STORM SEWERS
PROPOSED TRUNK LINE
C.B. M.H.

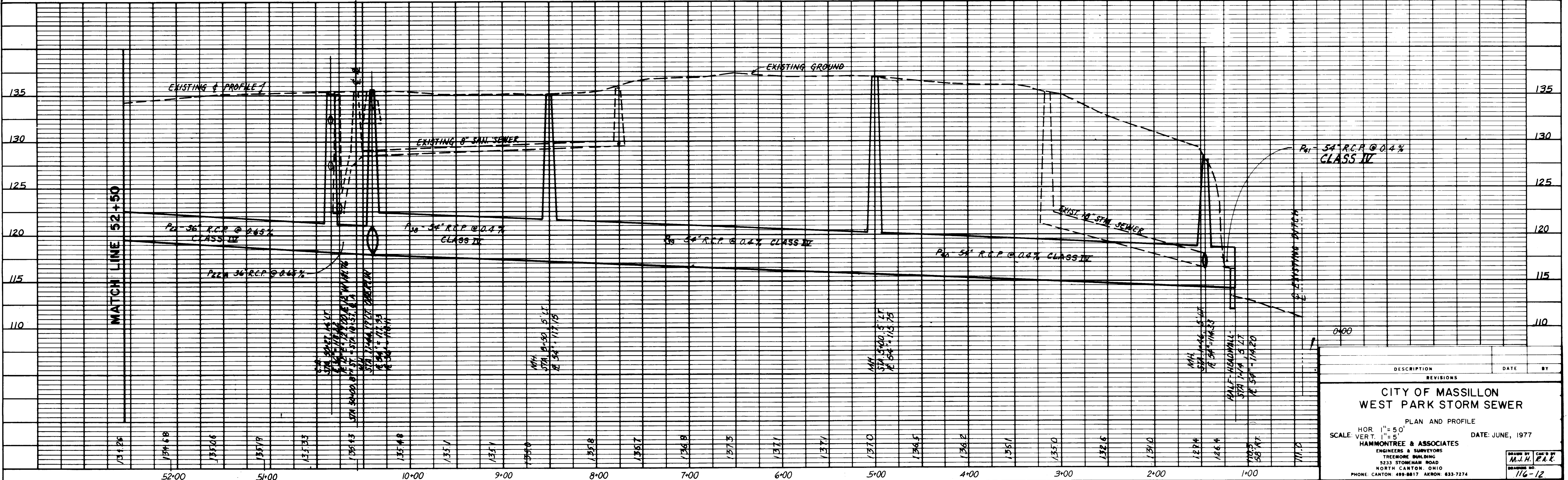
DATE SEPT, 1976
SCALE 1" = 100'

HAMMONTREE & ASSOCIATES
ENGINEERS & SURVEYORS
NORTH CANTON, OHIO
PHONE CANTON: 499-8817
PHONE AKRON: 633-7274

REPUBLIC STEEL CORPORATION
P.F.W. & C.R.P.

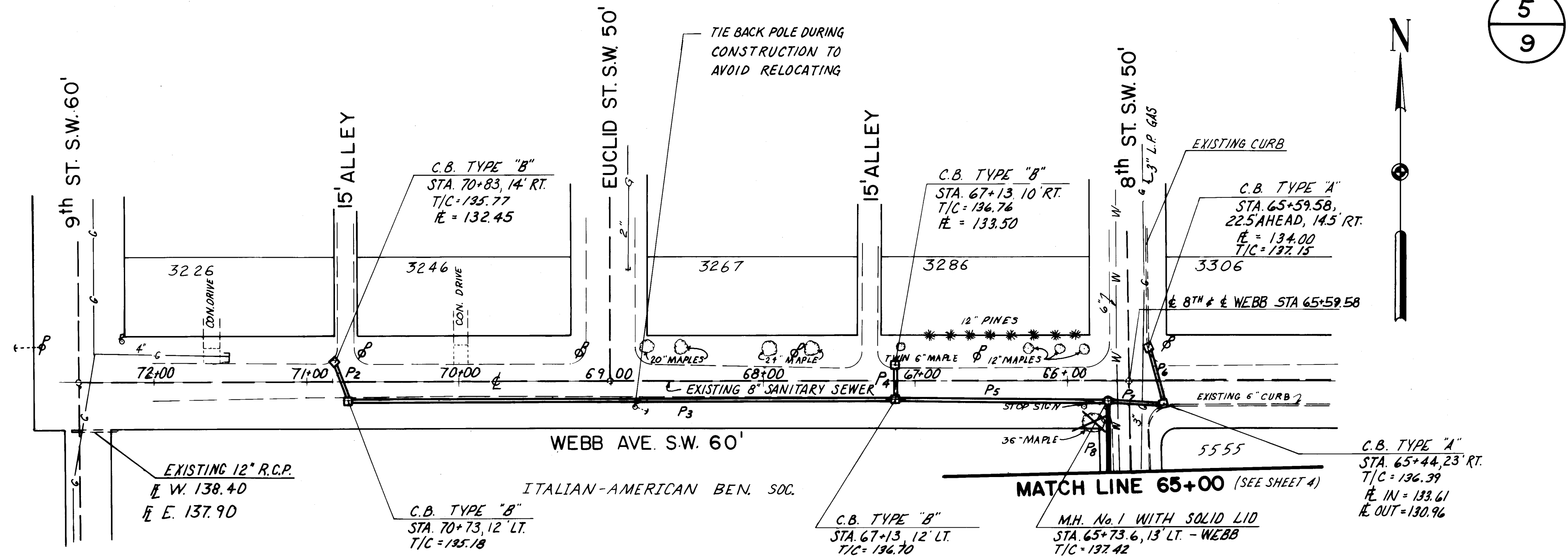
REPUBLIC STEEL CORP.

SCHEMATIC PLAN
MASSILLON WEST
PARK, OHIO



PLAN	SURVEYED	DATE
	PLATTED	BY
NOTE BOOK NO.	CHECKED	
	REVIEWED	

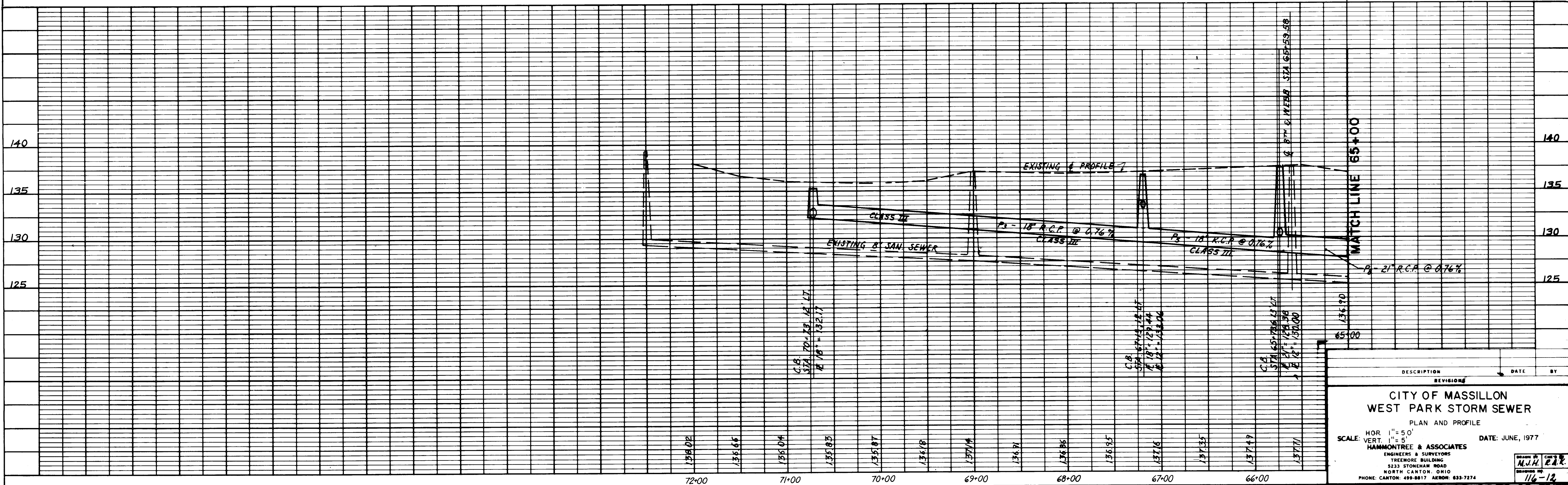
PROFILE	SURVEYED	DATE
	PLATTED	BY
NOTE BOOK NO.	CHECKED	
	REVIEWED	



DRAINAGE

PIPE	SIZE	TYPE	LENGTH	GRADE	R IN	R OUT
P ₂	12"	R.C.P.	28	1.0%	132.45	132.17
P ₃	18"	R.C.P.	340	0.76%	132.17	129.44
P ₄	12"	R.C.P.	22	2.0%	133.50	133.06
P ₅	18"	R.C.P.	139	0.76%	129.44	128.38
P ₆	12"	R.C.P.	39	1.0%	134.00	133.61
P ₇	12"	R.C.P.	37	2.6%	130.96	130.00

BENCH MARK
TOP HYDRANT WEST SIDE
9th @ INTERSECTION WITH WEBB
ELEV 143.78



REVISIONS	DATE	BY

CITY OF MASSILLON
WEST PARK STORM SEWER
PLAN AND PROFILE

SCALE: HOR. 1" = 50'
VERT. 1" = 5'

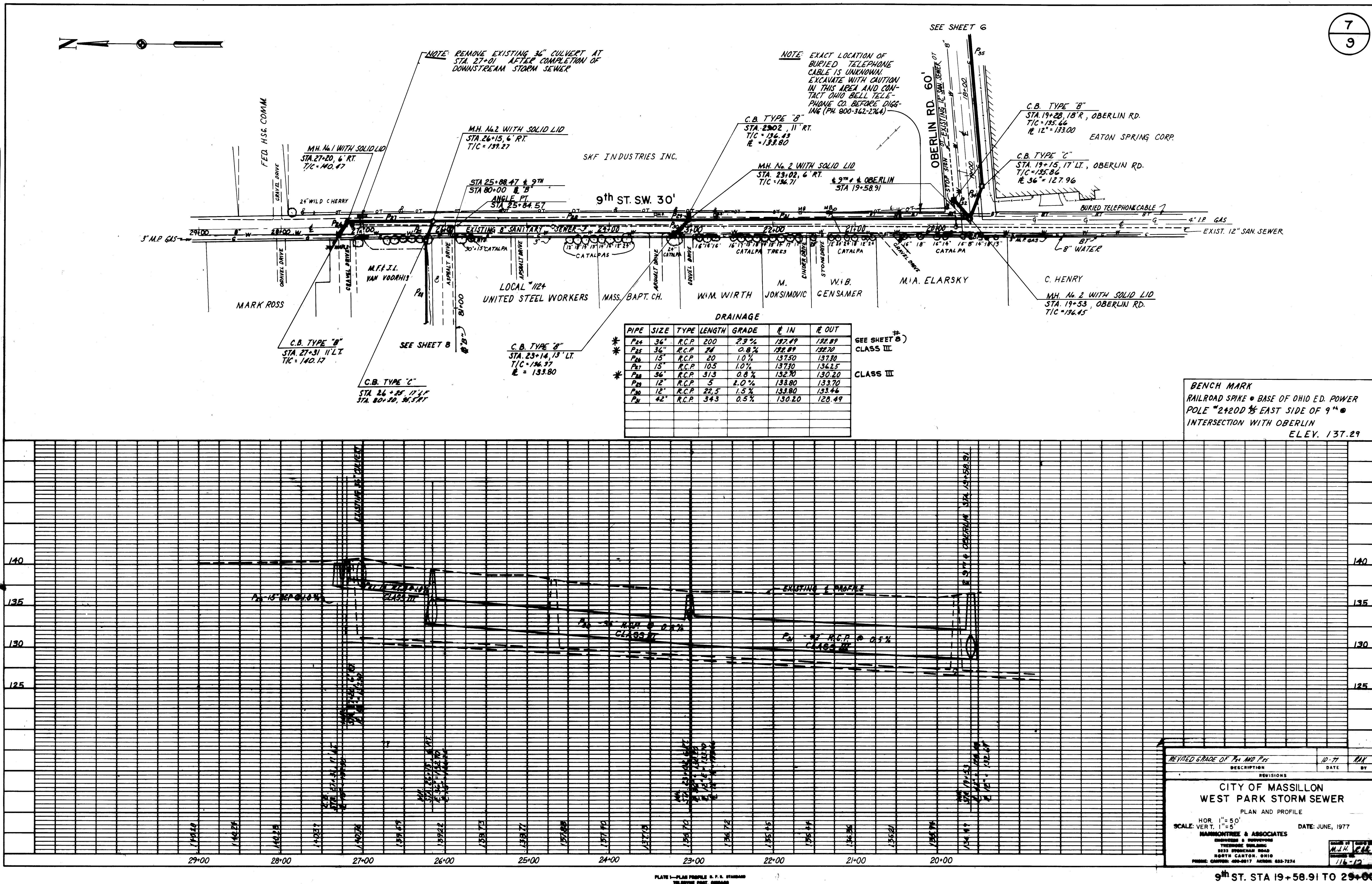
DATE: JUNE, 1977

ENGINEERS & SURVEYORS
HAMMONTREE & ASSOCIATES
TREMORE BUILDING
5233 STONEHAM ROAD
NORTH CANTON, OHIO
PHONE: CANTON: 499-8817 AKRON: 633-7274

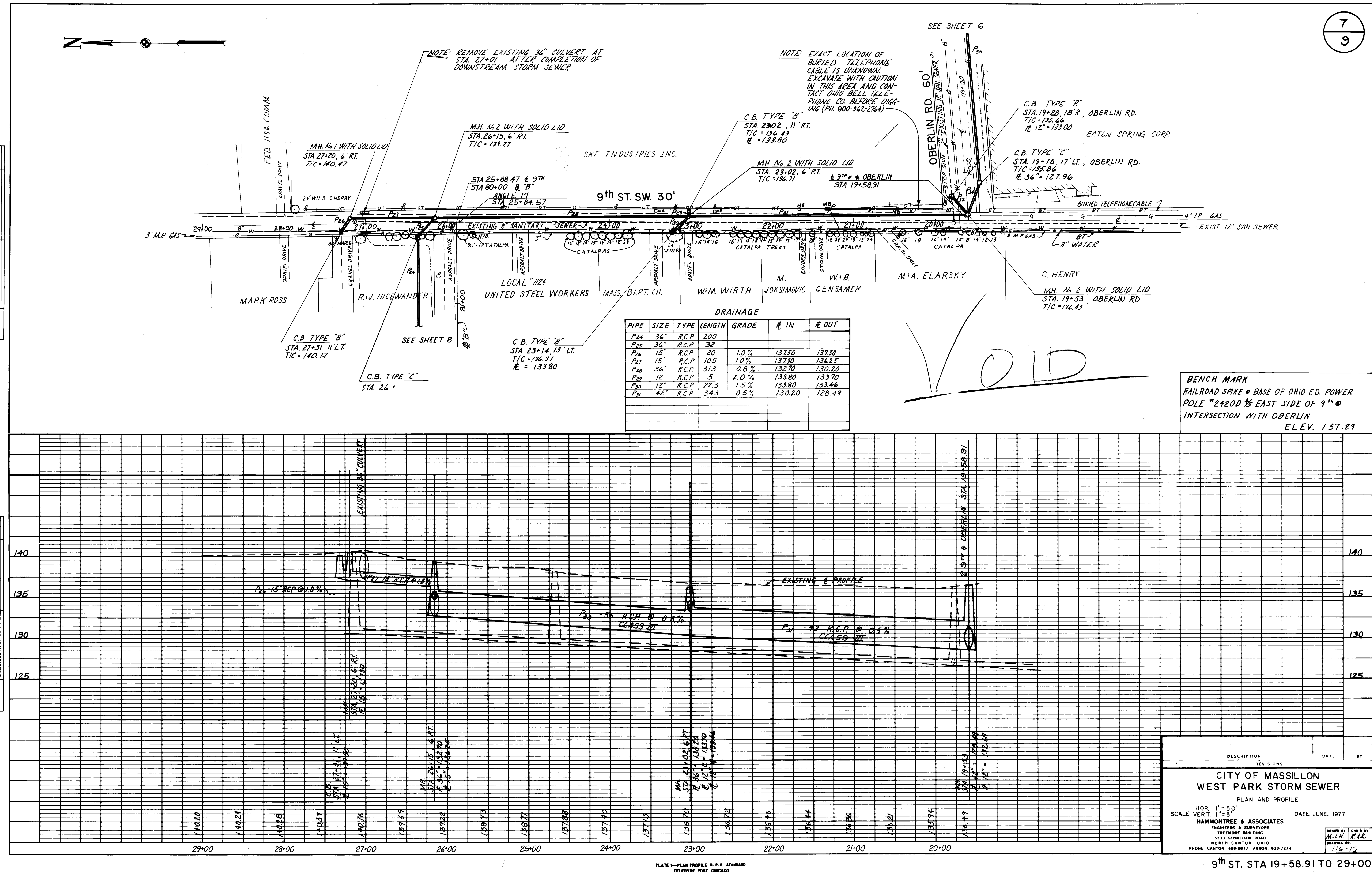
DRAWN BY: M.J.H. R.A.R.
CHECKED BY: M.J.H. R.A.R.
116-12

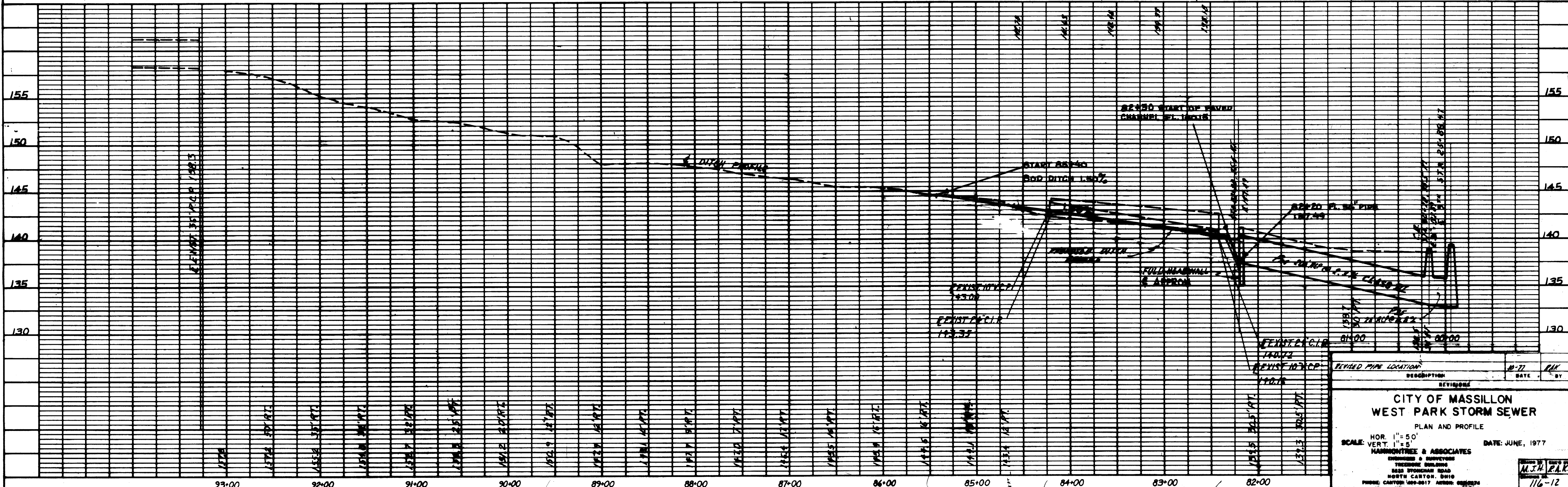
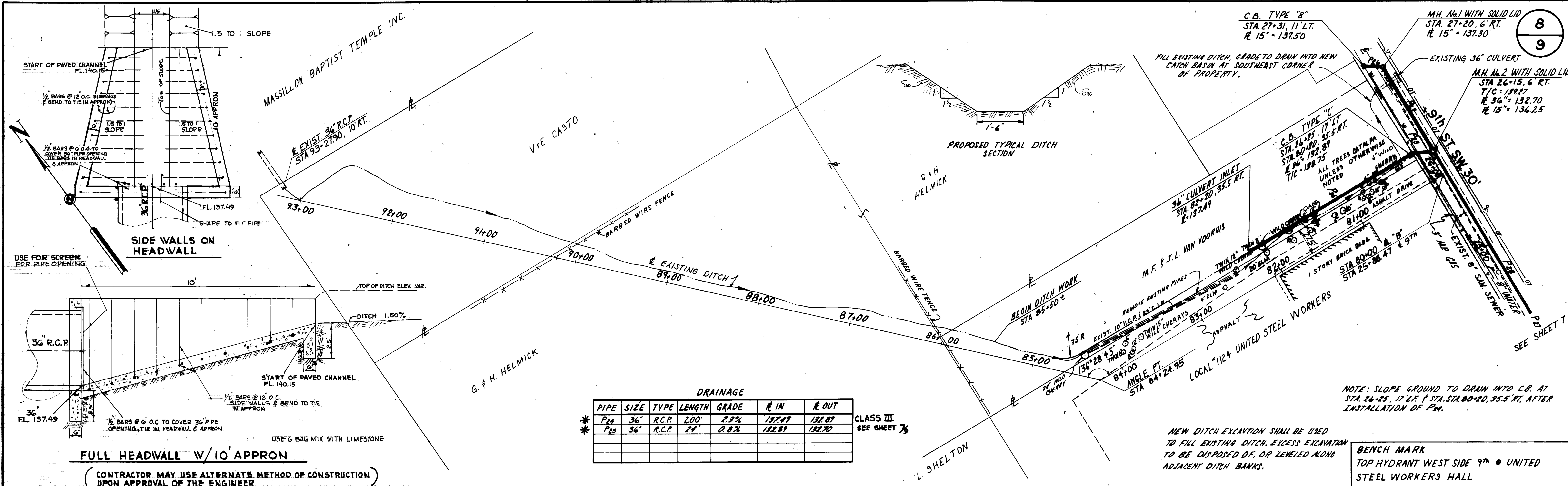
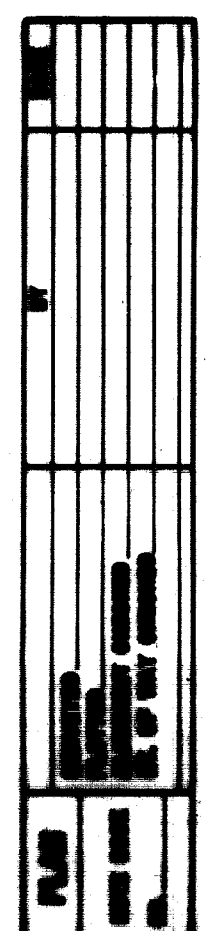
PLAN	DATE
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	

PROFILE	DATE
DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	



PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
NO.	B. M.'S NOTED		
	STRUCTURE NOTAT'NS CH'KD.		





REVISIONS	
NO.	DESCRIPTION

CITY OF MASSILLON
WEST PARK STORM SEWER
PLAN AND PROFILE

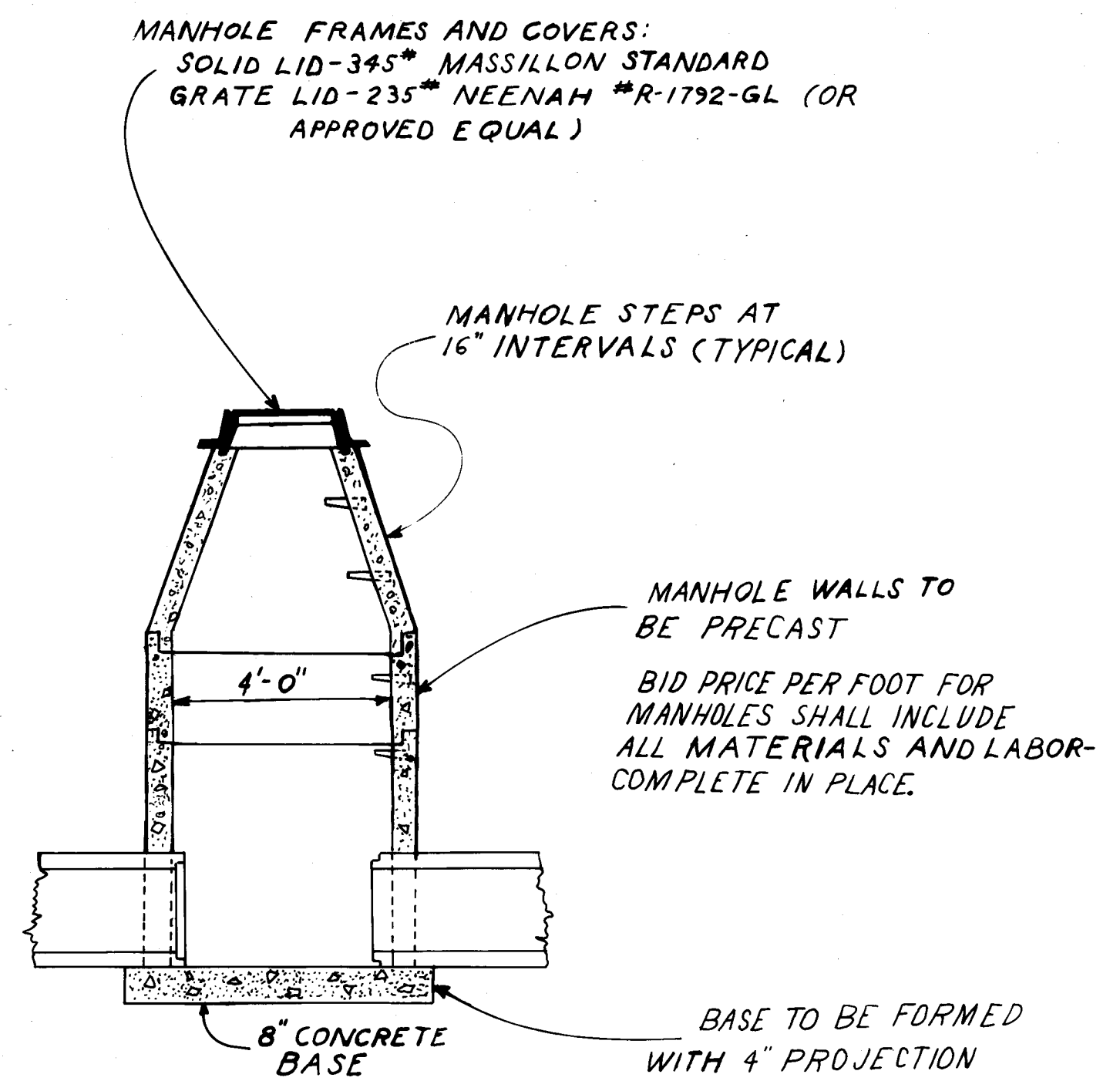
SCALE: HOR. 1" = 50'
VERT. 1" = 5'

DATE: JUNE, 1977

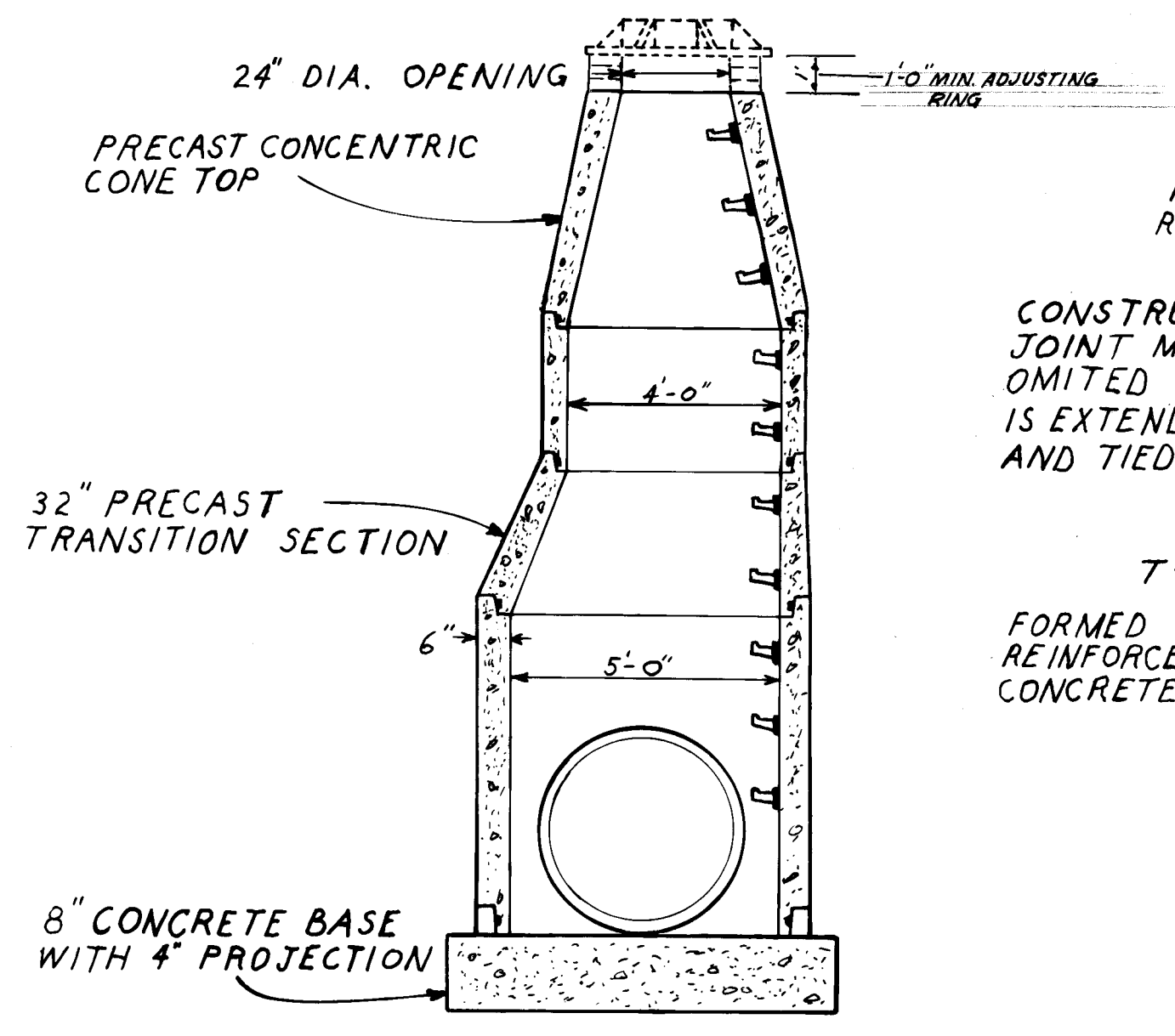
DESIGNED & SURVEYED BY: HARMONTRIE & ASSOCIATES
CHECKED BY: T. J. HARMONTRIE
3000 SPENCER ROAD
NORTH CANTON, OHIO
PHONE: (216) 922-5017

DATE: JUNE, 1977
BY: M.J.H. P.K.

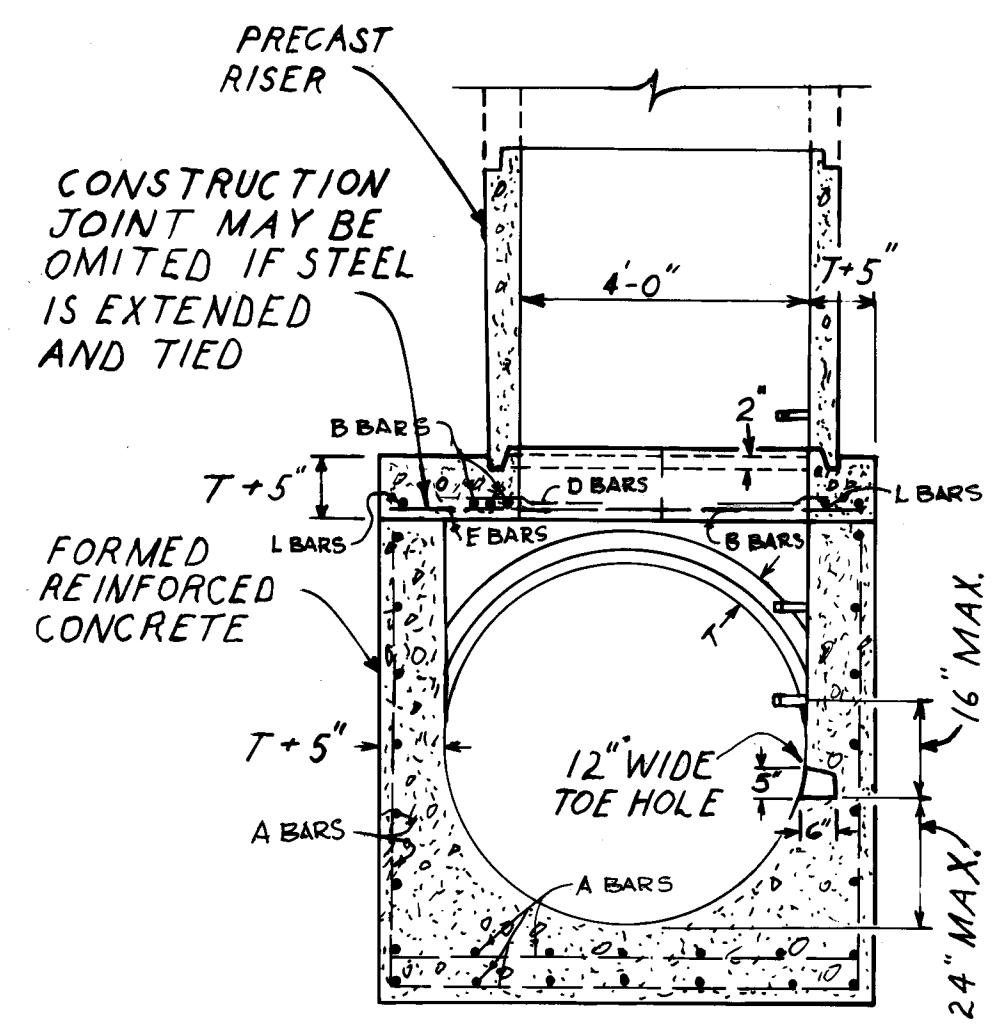
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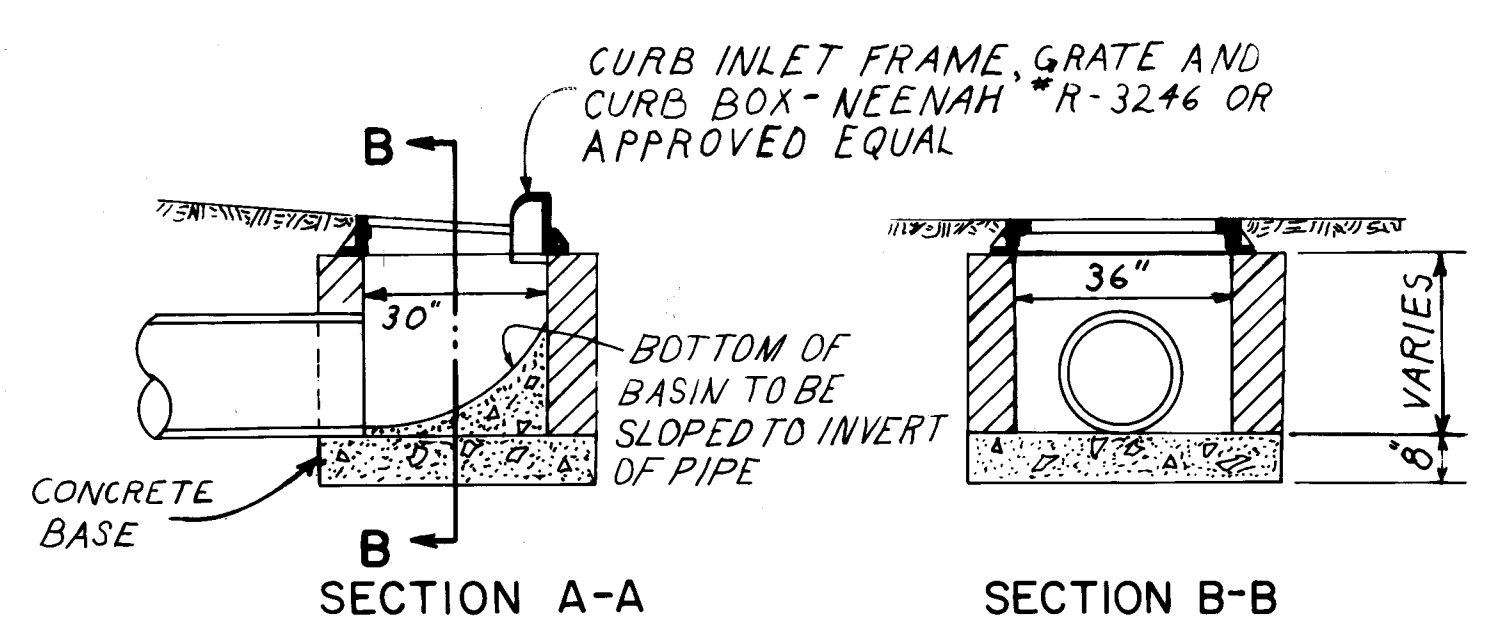
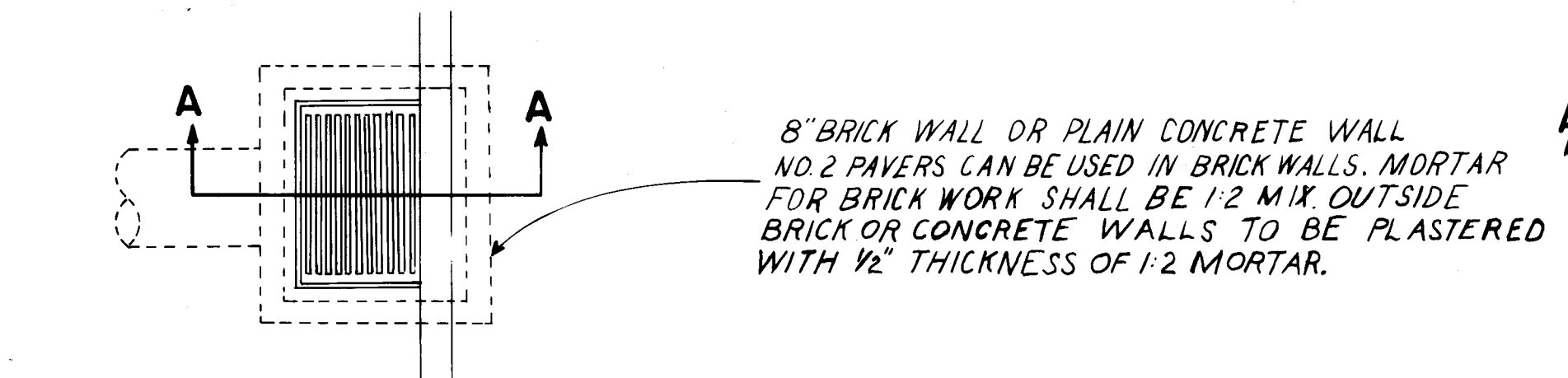
STORM SEWER MANHOLE NO. 1
(30" DIAMETER OR LESS SEWERS)



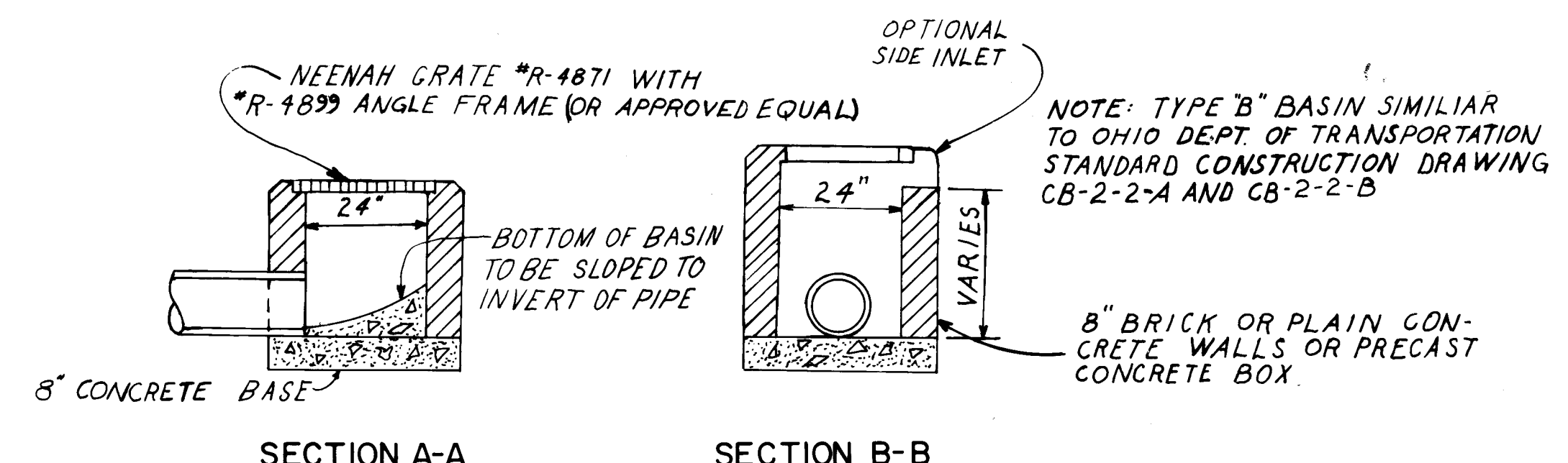
STORM SEWER MANHOLE NO. 2
(30" TO 42" DIAMETER SEWERS)



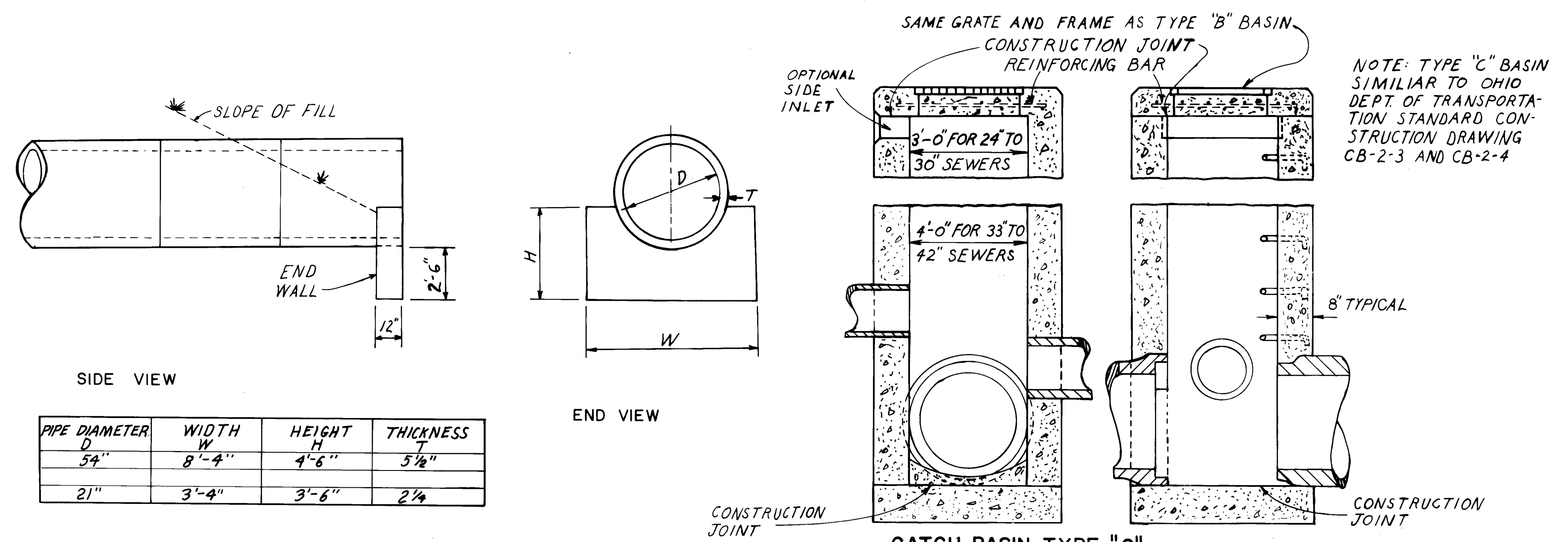
STORM SEWER MANHOLE NO. 3
(SEWERS OVER 42" DIAMETER)



CATCH BASIN TYPE "A"



CATCH BASIN TYPE "B"
(18" DIAMETER OR LESS SEWERS)



CATCH BASIN TYPE "C"
(24" TO 42" DIAMETER SEWERS)

REINFORCING STEEL LIST

BAR	SPACING	SIZE
A	12" @ BOTH WAYS	5/8" ϕ
B	3" @ BOTH WAYS	5/8" ϕ
L	AS SHOWN	5/8" ϕ
D	AS SHOWN	5/8" ϕ
E	12" @	5/8" ϕ

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LIST OF UTILITIES:

OHIO BELL TELEPHONE COMPANY 832 MCKINLEY AVENUE, N.W. CANTON, OHIO 44703 TELEPHONE: 800-362-2764	OHIO EDISON COMPANY 663 SOUTH ERIE STREET MASSILLON, OHIO 44646 TELEPHONE: 216-833-3141
OHIO WATER SERVICE COMPANY 161 LINCOLN WAY EAST MASSILLON, OHIO 44646 TELEPHONE: 216-833-4156	EAST OHIO GAS COMPANY DISTRIBUTION DIVISION 332 - 2ND STREET, N.W. CANTON, OHIO 44702 TELEPHONE: 216-456-8151

TRAFFIC MAINTENANCE: TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON OBERLIN AVENUE, 8TH STREET AND WEBB AVENUE. ONE WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON 9TH STREET, EXCEPT FOR THREE (3) CONSECUTIVE DAYS TO REMOVE THE EXISTING 36 INCH CULVERT.

REMOVAL OF EXISTING PIPE: REMOVAL OR ADJUSTMENT OF ALL EXISTING STORM SEWERS, CULVERTS, PIPES, HEADWALLS, CATCH BASINS, MANHOLES, TREES, STUMPS, AND OTHER ITEMS ENCOUNTERED DURING EXCAVATION OF THE STORM SEWER SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR THE RESPECTIVE SIZE OF CONDUIT.

GENERAL NOTES

SEEDING: QUANTITIES FOR SEEDING ARE CALCULATED SOIL AREAS WITHIN THE PERMANENT AND TEMPORARY DRAINAGE EASEMENT LINES. ALL GRASS AREAS DISTURBED BY INSTALLATION OF THIS STORM SEWER PROJECT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

CONNECTIONS TO EXISTING PIPE: WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEMS.

FENCE: EXISTING CHAIN LINK FENCE AROUND EATON MANUFACTURING COMPANY PARKING LOT SHALL BE CAREFULLY REMOVED AND STORED FOR RE-USE. INSTALLATION OF FENCE AFTER CONSTRUCTION OF SEWER SHALL INCLUDE REPAIR OR REPLACEMENT OF ALL DAMAGED PORTIONS. COST OF INSTALLATION SHALL BE INCLUDED WITH REMOVAL FOR PAYMENT.

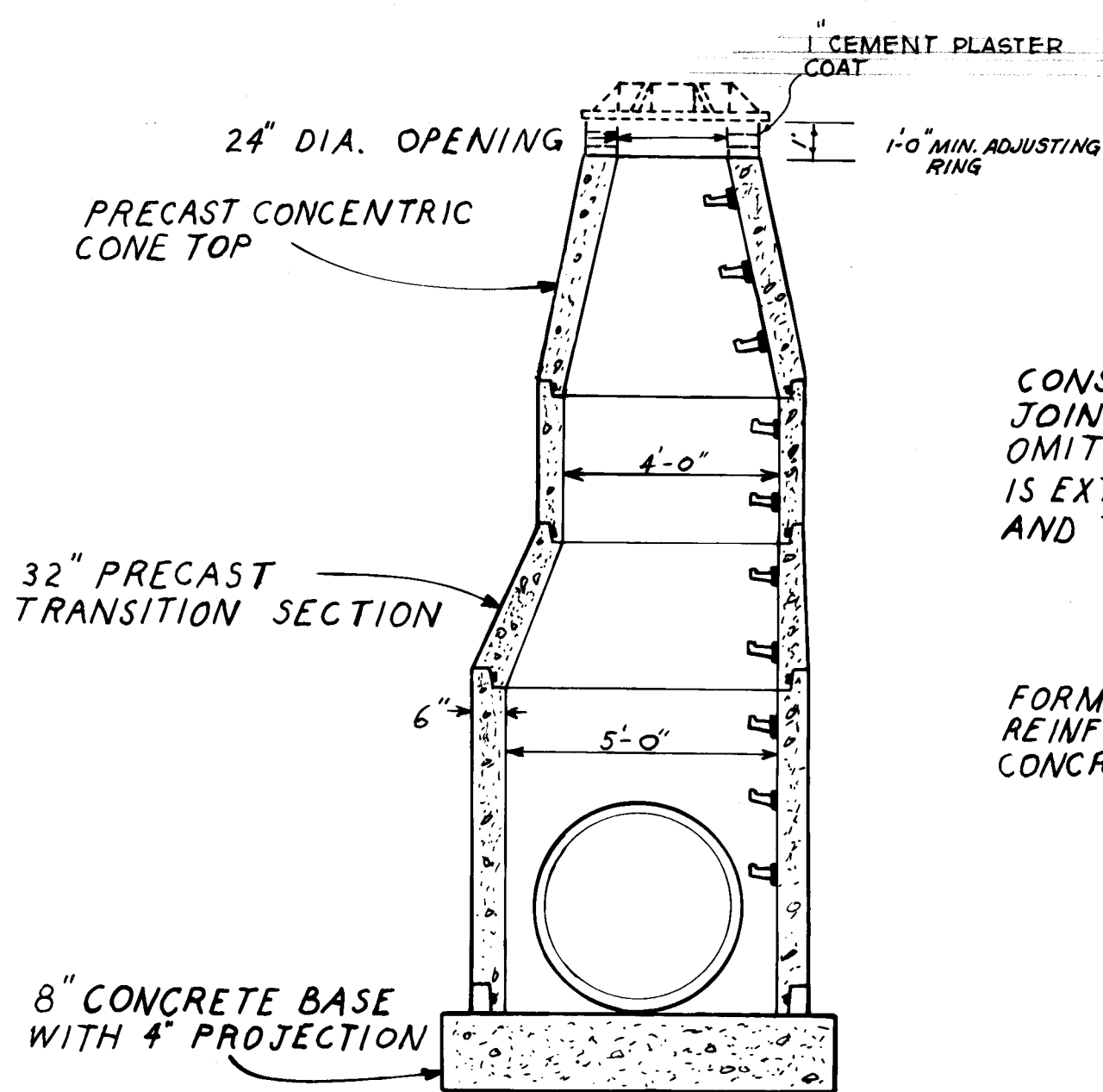
PAVEMENT RESTORATION: ALL EXISTING ROADWAY DISTURBED BY INSTALLATION OF STORM SEWER SHALL BE RESTORED IN THE FOLLOWING MANNER. BACKFILL AND COMPACTION IN ACCORDANCE WITH ITEM 603. SIX INCHES OF AGGREGATE BASE IN ACCORDANCE WITH ITEM 304. BITUMINOUS PRIME COAT AT 0.4 GALLON PER SQUARE YARD IN ACCORDANCE WITH ITEM 408. TWO INCHES OF ASPHALT CONCRETE IN ACCORDANCE WITH ITEM 403. FOUR FOOT WIDTH OF CHIP AND SEAL BERM IN ACCORDANCE WITH ITEMS 408 AND 409. RATE OF APPLICATION FOR CHIP AND SEAL SHALL BE BITUMINOUS PRIME COAT AT 0.4 GALLON PER SQUARE YARD, BITUMINOUS SEAL COAT AT 0.3 GALLON PER SQUARE YARD, AND SEAL COAT COVER AGGREGATE NO. 8 AT 0.008 CUBIC YARD PER SQUARE YARD. CHIP AND SEAL BERM TO BE INSTALLED ALONG 8TH STREET, WEBB AVENUE, OBERLIN ROAD AND PORTIONS OF EATON PARKING LOT.

DUST CONTROL: QUANTITIES FOR WATER AND CALCIUM CHLORIDE ARE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE. THESE ITEMS SHALL ONLY BE APPLIED BY DIRECTION OF THE CITY ENGINEER.

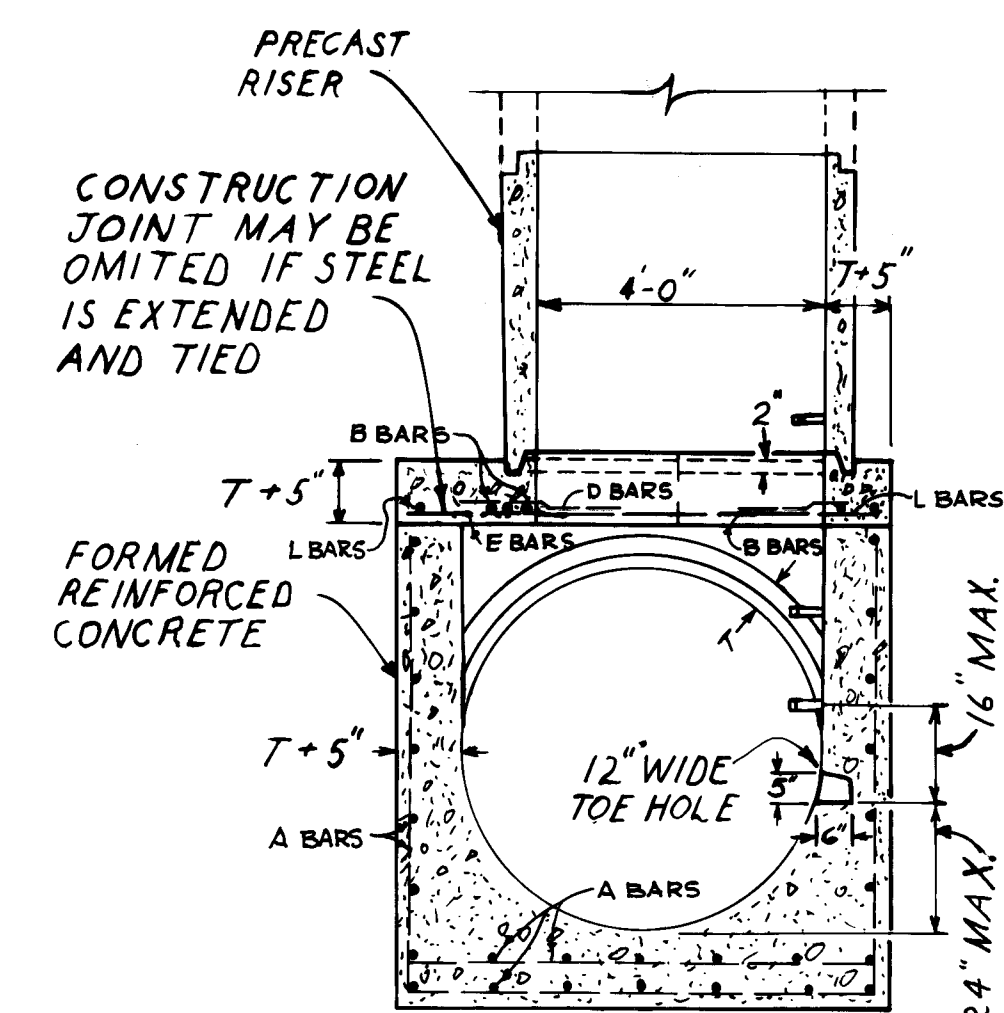
ESTIMATED QUANTITIES				
ITEM	TOTAL	UNIT	DESCRIPTION	
616	70	M. GAL.	WATER	
616	15	TON	CALCIUM CHLORIDE	
202	335	LIN. FT.	FENCE REMOVED FOR STORAGE + RE-USE	
603	540	LIN. FT.	12" CONDUIT, TYPE B (706.02)	
603	125	LIN. FT.	15" CONDUIT, TYPE B (706.02)	
603	499	LIN. FT.	18" CONDUIT, TYPE B (706.02)	
603	357	LIN. FT.	21" CONDUIT, TYPE B (706.02)	
603	762	LIN. FT.	30" CONDUIT, TYPE B (706.02)	
603	1902.5	LIN. FT.	36" CONDUIT, TYPE B (706.02)	
603	343	LIN. FT.	42" CONDUIT, TYPE B (706.02)	
603	931	LIN. FT.	54" CONDUIT, TYPE B (706.02)	
604	9	EACH	CATCH BASIN, TYPE A	
604	11	EACH	CATCH BASIN, TYPE B	
604	9	EACH	CATCH BASIN, TYPE C	
604	2	EACH	MANHOLE, TYPE 1	
604	4	EACH	MANHOLE, TYPE 2	
604	4	EACH	MANHOLE, TYPE 3	
601	13.3	CU. YDS.	CHANNEL PROTECTION, TYPE B WITHOUT BEDDING	
602	1.5	CU. YDS.	CONCRETE MASONRY - HALF HEADWALL	
304	640	CU. YDS.	AGGREGATE BASE	
403	560	CU. YDS.	ASPHALT CONCRETE	
408	1540	GAL.	BITUMINOUS PRIME COAT	
409	650	GAL.	SEAL COAT BITUMINOUS MATERIAL	
409	17.5	CU. YDS.	SEAL COAT COVER AGGREGATE No. 8	
SPECIAL	LUMP	SUM	RECONSTRUCT WATER VALVE PIT AND MANHOLE	
SPECIAL	250	L.F.	DITCH CONSTRUCTION	
614	LUMP	SUM	MAINTAINING TRAFFIC	
623	LUMP	SUM	CONSTRUCTION LAYOUT STAKES	
659	0.75	TON	COMMERCIAL FERTILIZER	
659	3.7	TON	AGRICULTURAL LIMING	
659	8250	SQ. YDS.	SEEDING & MULCHING	

DESCRIPTION	DATE	BY
REVISIONS		
CITY OF MASSILLON WEST PARK STORM SEWER STANDARD NOTES, DETAILS, AND QUANTITIES		
HAMMONTREE & ASSOCIATES, LTD. CONSULTING ENGINEERING & SURVEYING CANTON & AKRON, OHIO		
DATE: JUNE, 1977	DESIGNED: MJH	CHECKED: RAK
	REVIEWED:	DRAWING NO. 116-12

STORM SEWER MANHOLE NO. 1
(30" DIAMETER OR LESS SEWERS)



STORM SEWER MANHOLE NO. 2
(30" TO 42" DIAMETER SEWERS)

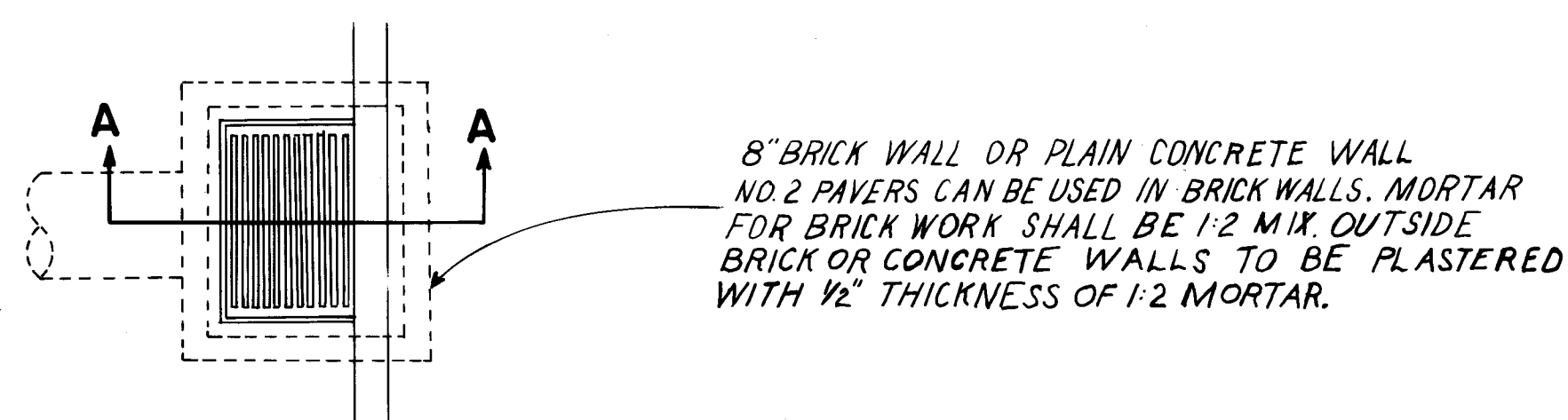


STORM SEWER MANHOLE NO. 3
(SEWERS OVER 42" DIAMETER)

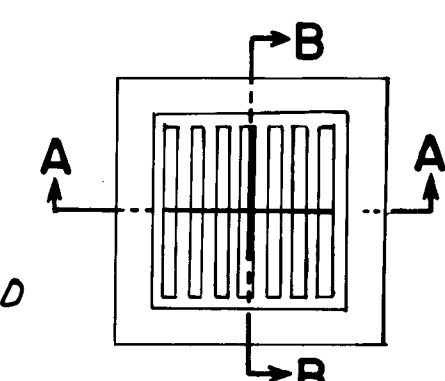
NOTE: MANHOLE NO. 3 SIMILAR TO OHIO
DEPARTMENT OF TRANSPORTATION
STANDARD CONSTRUCTION DRAWING
MH-5

ESTIMATED QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
616	70	M. GAL.	WATER
616	15	TON	CALCIUM CHLORIDE
202	335	LIN. FT.	FENCE REMOVED FOR STORAGE + RE-USE
603	779	LIN. FT.	36" CONDUIT TYPE B (706.02) CLASS III
603	540	LIN. FT.	12" CONDUIT, TYPE B (706.02) CLASS IV
603	125	LIN. FT.	15" CONDUIT, TYPE B (706.02) CLASS III
603	499	LIN. FT.	18" CONDUIT, TYPE B (706.02) CLASS III
603	357	LIN. FT.	21" CONDUIT, TYPE B (706.02) CLASS II
603	762	LIN. FT.	30" CONDUIT, TYPE B (706.02) CLASS II
603	1115.5	LIN. FT.	36" CONDUIT, TYPE B (706.02) CLASS IV
603	343	LIN. FT.	42" CONDUIT, TYPE B (706.02) CLASS IV
603	931	LIN. FT.	54" CONDUIT, TYPE B (706.02) CLASS IV
604	9	EACH	CATCH BASIN, TYPE A
604	11	EACH	CATCH BASIN, TYPE B
604	9	EACH	CATCH BASIN, TYPE C
604	2	EACH	MANHOLE, TYPE 1
604	4	EACH	MANHOLE, TYPE 2
604	4	EACH	MANHOLE, TYPE 3
601	13.3	CU. YDS.	CHANNEL PROTECTION, TYPE B WITHOUT BEDDING
602	2.38	CU. YDS.	CONCRETE MASONRY - HALF HEADWALL
602	LUMP		PAVED CHANNEL & HEADWALL AS PER PLANS
304	640	CU. YDS.	AGGREGATE BASE
403	560	CU. YDS.	ASPHALT CONCRETE
408	1340	GAL.	BITUMINOUS PRIME COAT
409	650	GAL.	SEAL COAT BITUMINOUS MATERIAL
409	17.5	CU. YDS.	SEAL COAT COVER AGGREGATE No. 8
405	140	CU. YDS.	COLD MIX - TEMPORARY PAVEMENT
SPECIAL	LUMP	SUM	RECONSTRUCT WATER VALVE PIT AND MANHOLE
SPECIAL	LUMP	SUM	DITCH CONSTRUCTION, FILLING EXISTING DITCH (580 LIN. FT. MORE OR LESS)
614	LUMP	SUM	MAINTAINING TRAFFIC
623	LUMP	SUM	CONSTRUCTION LAYOUT STAKES
659	0.75	TON	COMMERCIAL FERTILIZER
659	3.7	TON	AGRICULTURAL LIMING
659	8250	SQ. YDS.	SEEDING & MULCHING
305	14	SQ. YDS.	10" CONC. BASE
660	130	SQ. YDS.	8" CONC. DITCH

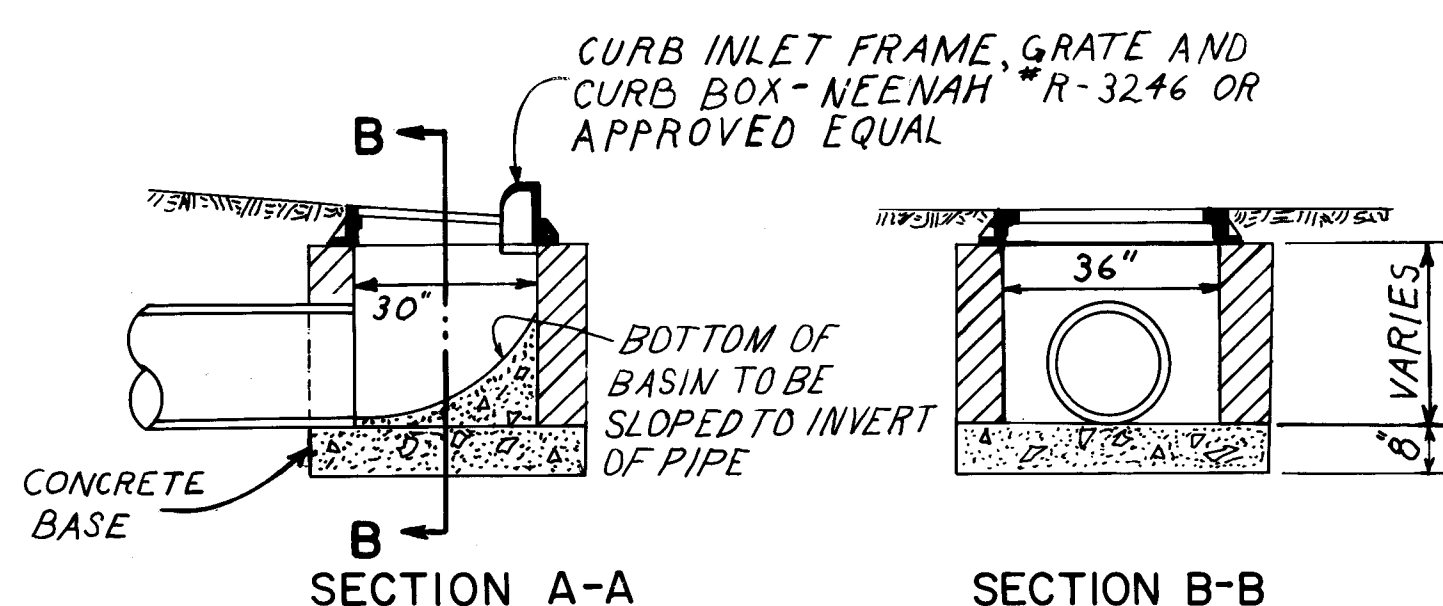
GENERAL NOTES



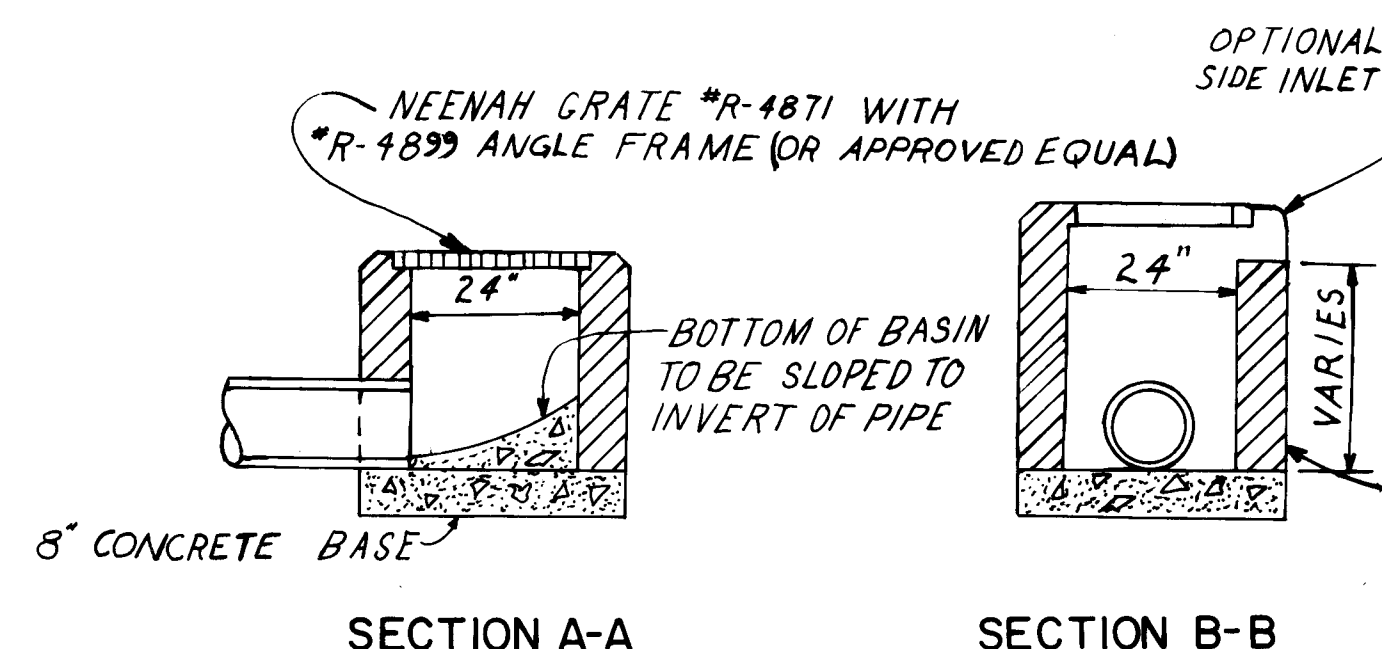
8" BRICK WALL OR PLAIN CONCRETE WALL
NO. 2 PAVERS CAN BE USED IN BRICK WALLS. MORTAR
FOR BRICK WORK SHALL BE 1:2 MIX. OUTSIDE
BRICK OR CONCRETE WALLS TO BE PLASTERED
WITH 1/2" THICKNESS OF 1:2 MORTAR.



REINFORCING STEEL LIST		
BAR	SPACING	BAR SIZE
A	12" c/c BOTH WAYS	5/8" Φ
B	3" c/c BOTH WAYS	5/8" Φ
L	AS SHOWN	5/8" Φ
D	AS SHOWN	5/8" Φ
E	12" c/c	5/8" Φ



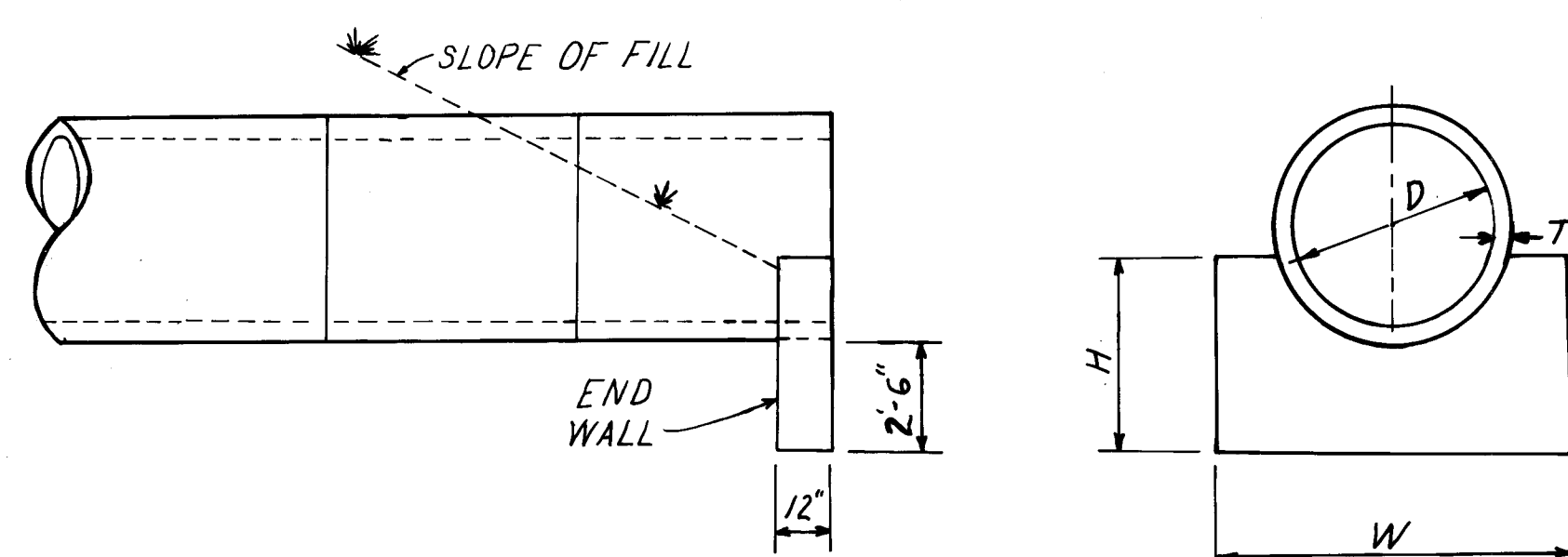
CATCH BASIN TYPE "A"



CATCH BASIN TYPE "B"
(18" DIAMETER OR LESS SEWERS)

NOTE: TYPE "B" BASIN SIMILAR
TO OHIO DEPT. OF TRANSPORTATION
STANDARD CONSTRUCTION DRAWING
CR-2-2-A AND CR-2-2-B

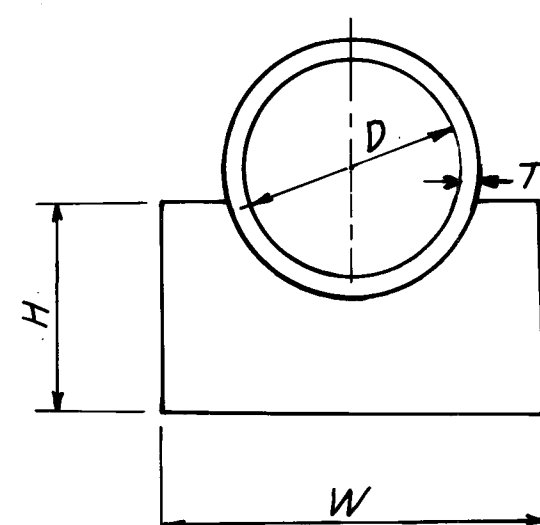
8" BRICK OR PLAIN CON-
CRETE WALLS OR PRECAST
CONCRETE BOX



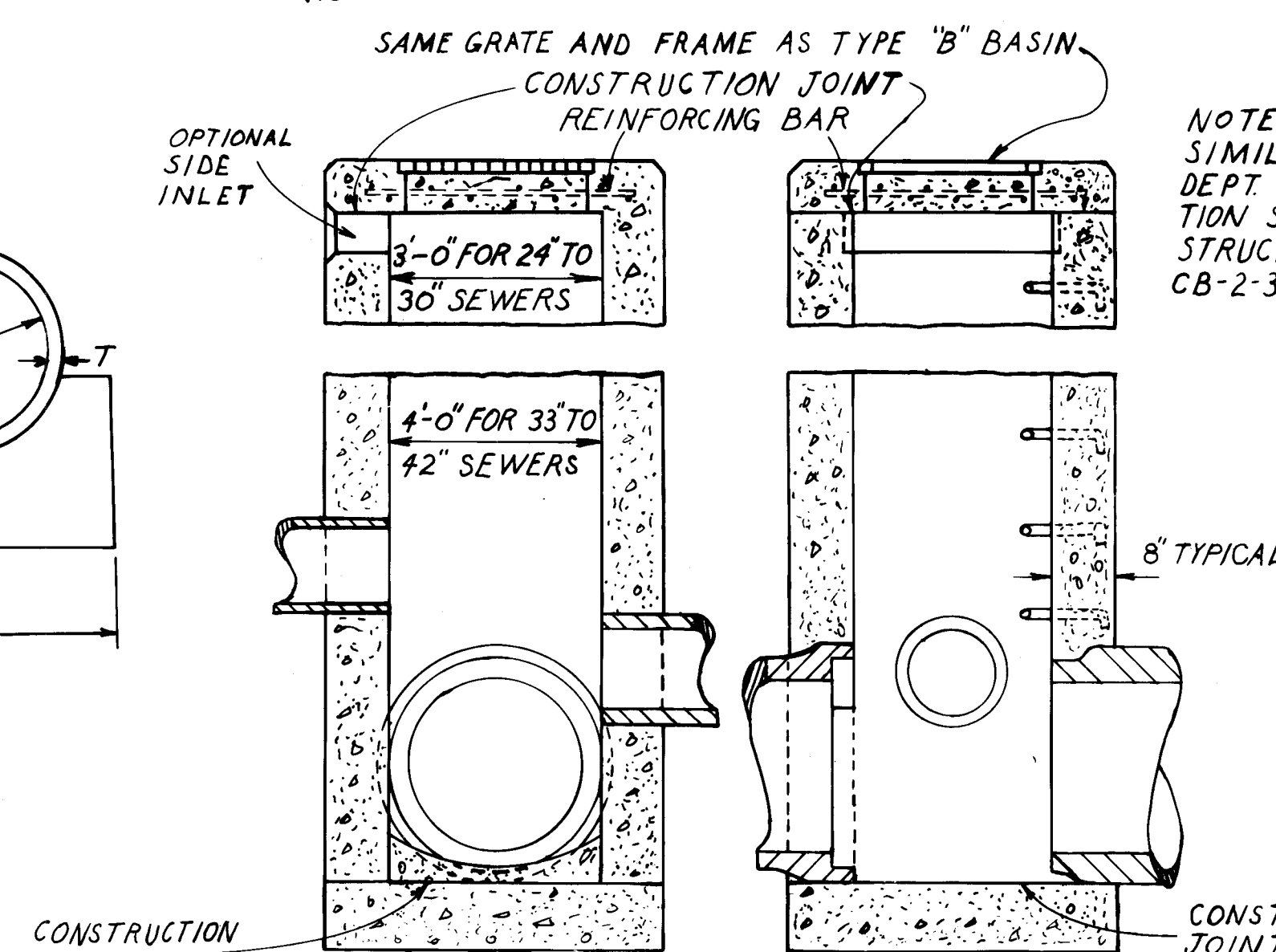
SIDE VIEW

PIPE DIAMETER D	WIDTH W	HEIGHT H	THICKNESS T
54"	8'-4"	4'-6"	5 1/2"
36"	5'-6"	3'-9"	4"
21"	3'-6"	3'-6"	2 1/4"

HALF HEADWALL



END VIEW



CATCH BASIN TYPE "C" (24" TO 42" DIAMETER SEWERS)

NOTE: TYPE "C" BASIN
SIMILIAR TO OHIO
DEPT. OF TRANSPORTA-
TION STANDARD CON-
STRUCTION DRAWING
CB-2-3 AND CB-2-4

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832 McKINLEY AVENUE, N.W.
CANTON, OHIO 44703
TELEPHONE: 800-362-2764

OHIO WATER SERVICE COMPANY
161 LINCOLN WAY EAST
MASSILLON, OHIO 44646
TELEPHONE: 216-833-4156

OHIO EDISON COMPANY
663 SOUTH ERIE STREET
MASSILLON, OHIO 44646
TELEPHONE: 216-833-3141

EAST OHIO GAS COMPANY
DISTRIBUTION DIVISION
332 - 2ND STREET, N.W.
CANTON, OHIO 44702
TELEPHONE: 216-456-8151

TRAFFIC MAINTENANCE: TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON OBERLIN AVENUE, 8TH STREET AND WEBB AVENUE. ONE WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON 9TH STREET, EXCEPT FOR THREE (3) CONSECUTIVE DAYS TO REMOVE THE EXISTING 36 INCH CULVERT.

REMOVAL OF EXISTING PIPE: REMOVAL OR ADJUSTMENT OF ALL EXISTING STORM SEWERS, CULVERTS, PIPES, HEADWALLS, CATCH BASINS, MANHOLES, TREES, STUMPS, AND OTHER ITEMS ENCOUNTERED DURING EXCAVATION OF THE STORM SEWER SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR THE RESPECTIVE SIZE OF CONDUIT.

OBERLIN RD. CROSSING @ 8TH ST. TO BE 10" 305 ITEM PORTLAND CEMENT
CONCRETE BASE, 1/2" ITEM 404 ASPHALTIC CONCRETE BASE.
USE CLASS "C" CONCRETE

SEEDING: QUANTITIES FOR SEEDING ARE CALCULATED SOIL AREAS WITHIN THE PERMANENT AND TEMPORARY DRAINAGE EASEMENT LINES. ALL GRASS AREAS DISTURBED BY INSTALLATION OF THIS STORM SEWER PROJECT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

CONNECTIONS TO EXISTING PIPE: WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEMS.

FENCE: EXISTING CHAIN LINK FENCE AROUND EATON MANUFACTURING COMPANY PARKING LOT SHALL BE CAREFULLY REMOVED AND STORED FOR RE-USE. INSTALLATION OF FENCE AFTER CONSTRUCTION OF SEWER SHALL INCLUDE REPAIR OR REPLACEMENT OF ALL DAMAGED PORTIONS. COST OF INSTALLATION SHALL BE INCLUDED WITH REMOVAL FOR PAYMENT.

PAVEMENT RESTORATION: ALL EXISTING ROADWAY DISTURBED BY INSTALLATION OF STORM SEWER SHALL BE RESTORED IN THE FOLLOWING MANNER, BACKFILL AND COMPACTION IN ACCORDANCE WITH ITEM 603, SIX INCHES OF AGGREGATE BASE IN ACCORDANCE WITH ITEM 304, BITUMINOUS PRIME COAT AT 0.4 GALLON PER SQUARE YARD IN ACCORDANCE WITH ITEM 408, TWO INCHES OF ASPHALT CONCRETE IN ACCORDANCE WITH ITEM 403, FOUR FOOT WIDTH OF CHIP AND SEAL BERM IN ACCORDANCE WITH ITEMS 408 AND 409, RATE OF APPLICATION FOR CHIP AND SEAL SHALL BE BITUMINOUS PRIME COAT AT 0.4 GALLON PER SQUARE YARD, BITUMINOUS SEAL COAT AT 0.3 GALLON PER SQUARE YARD, AND SEAL COAT COVER AGGREGATE NO. 8 AT 0.008 CUBIC YARD PER SQUARE YARD, CHIP AND SEAL BERM TO BE INSTALLED ALONG OBERLIN ROAD AND PORTIONS OF FATON PARKING LOT.

DUST CONTROL: QUANTITIES FOR WATER AND CALCIUM CHLORIDE ARE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE. THESE ITEMS SHALL ONLY BE APPLIED BY DIRECTION OF THE CITY ENGINEER.

QUANTITIES REVIEWED		10-77	RAK
DESCRIPTION		DATE	BY
REVISIONS			
CITY OF MASSILLON WEST PARK STORM SEWER STANDARD NOTES, DETAILS, AND QUANTITIES			
HAMMONTREE & ASSOCIATES, LTD.		DATE: JUNE, 1977	
 CONSULTING ENGINEERING & SURVEYING CANTON & AERON, OHIO	DESIGNED MJH	DRAWN CB	CHECKED RAK
	SERVEYED 162		ENGINEERING NO.

