



CITY OF ANN ARBOR ENGINEERING

SWIFT RUN SEWER LINING PROJECT

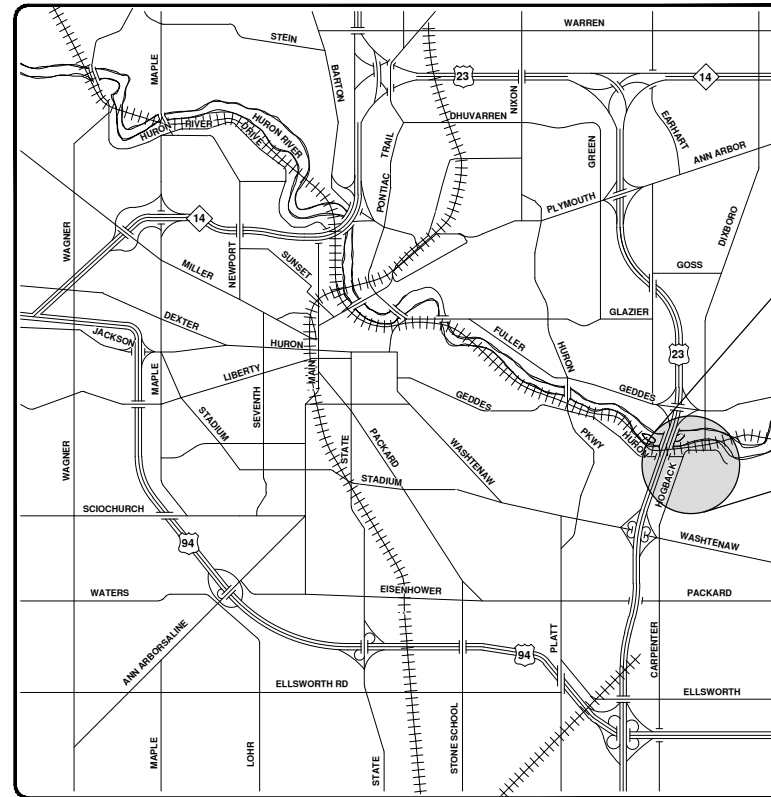
ITB 4651, FILE No. 2020041

NOTES:

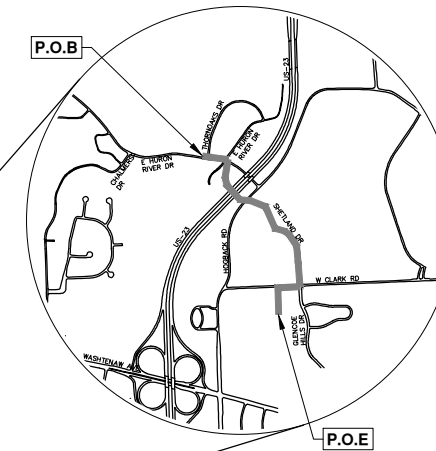
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



VICINITY MAP



R:\2020041 Swift Run Sewer Lining\Plan Production\2020041Cov.dwg - _a2 standard bw.stb - Plot Date: 12/7/2020 11:57:27 AM



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	OUT TO BID	12-07-20	DF:GB	IVK

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8667
734-794-4410
www.a2gov.org



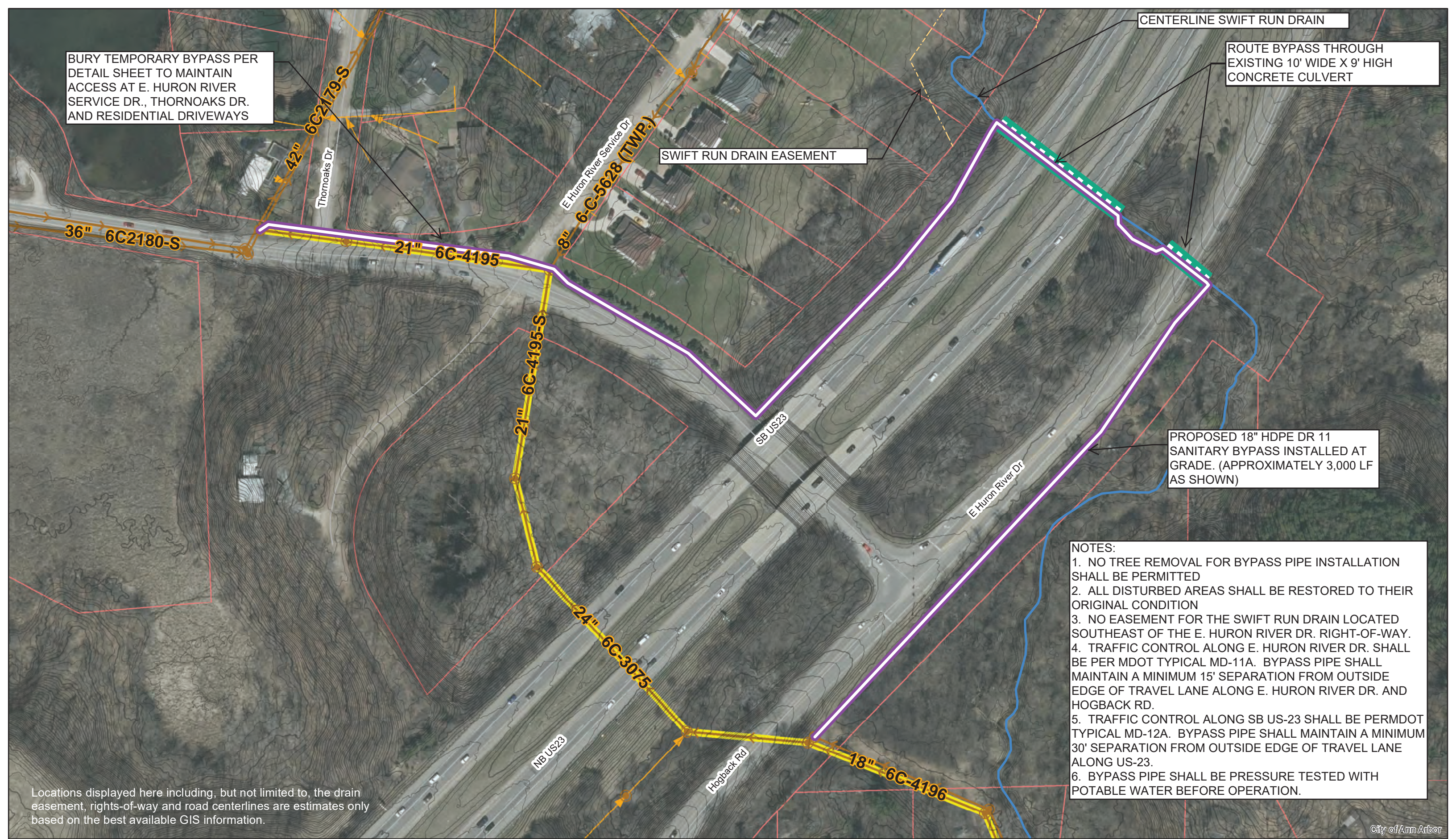
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

PREPARED UNDER THE SUPERVISION OF
Igor V. Kotlyar
IGOR V. KOTLYAR, P.E. - MI LICENSE No. 43287
PROJECT MANAGER
DATE 12 / 07 / 2020



SCALE
DRAWING No. 2020032-7
SHEET No. 1 OF 17

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BURY TEMPORARY BYPASS PER DETAIL SHEET TO MAINTAIN ACCESS AT E. HURON RIVER SERVICE DR., THORNOAKS DR. AND RESIDENTIAL DRIVEWAYS

ROUTE BYPASS THROUGH EXISTING 10' WIDE X 9' HIGH CONCRETE CULVERT

SWIFT RUN DRAIN EASEMENT

PROPOSED 18" HDPE DR 11 SANITARY BYPASS INSTALLED AT GRADE. (APPROXIMATELY 3,000 LF AS SHOWN)

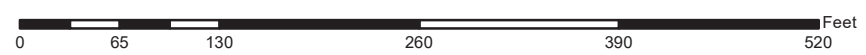
- NOTES:
1. NO TREE REMOVAL FOR BYPASS PIPE INSTALLATION SHALL BE PERMITTED
 2. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION
 3. NO EASEMENT FOR THE SWIFT RUN DRAIN LOCATED SOUTHEAST OF THE E. HURON RIVER DR. RIGHT-OF-WAY.
 4. TRAFFIC CONTROL ALONG E. HURON RIVER DR. SHALL BE PER MDOT TYPICAL MD-11A. BYPASS PIPE SHALL MAINTAIN A MINIMUM 15' SEPARATION FROM OUTSIDE EDGE OF TRAVEL LANE ALONG E. HURON RIVER DR. AND HOGBACK RD.
 5. TRAFFIC CONTROL ALONG SB US-23 SHALL BE PERMDOT TYPICAL MD-12A. BYPASS PIPE SHALL MAINTAIN A MINIMUM 30' SEPARATION FROM OUTSIDE EDGE OF TRAVEL LANE ALONG US-23.
 6. BYPASS PIPE SHALL BE PRESSURE TESTED WITH POTABLE WATER BEFORE OPERATION.

Locations displayed here including, but not limited to, the drain easement, rights-of-way and road centerlines are estimates only based on the best available GIS information.

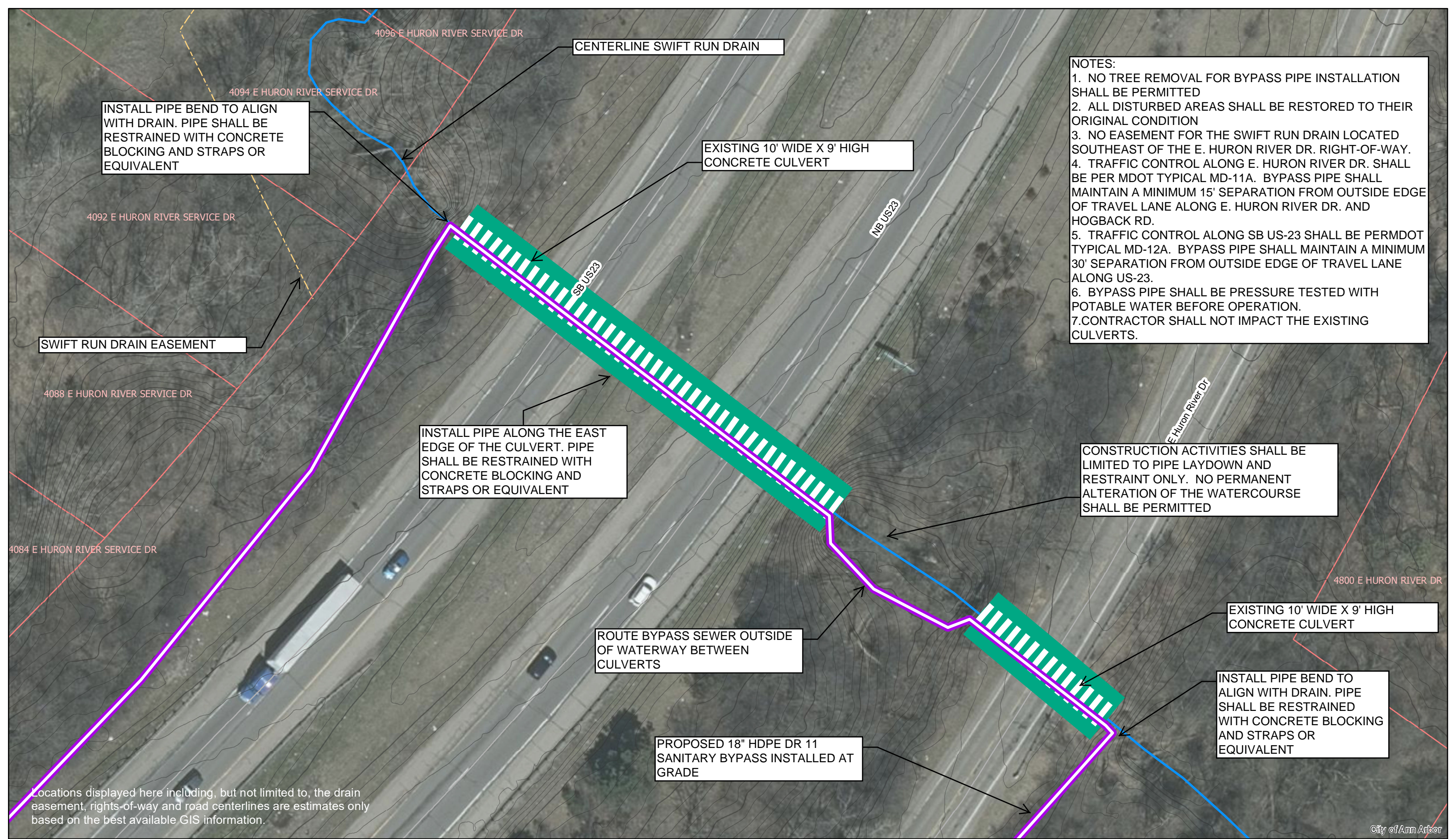
City of Ann Arbor

Proposed Bypass	Manholes	Proposed Lining
Swift Run Drain CL	Sanitary Main	Road Centerline
Swift Run culvert (approx)	Sanitary Lateral	Parcels/ROW line

Bypass Overview



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- NOTES:**
1. NO TREE REMOVAL FOR BYPASS PIPE INSTALLATION SHALL BE PERMITTED
 2. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION
 3. NO EASEMENT FOR THE SWIFT RUN DRAIN LOCATED SOUTHEAST OF THE E. HURON RIVER DR. RIGHT-OF-WAY.
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 5. TRAFFIC CONTROL ALONG SB US-23 SHALL BE PERMDOT TYPICAL MD-12A. BYPASS PIPE SHALL MAINTAIN A MINIMUM 30' SEPARATION FROM OUTSIDE EDGE OF TRAVEL LANE ALONG US-23.
 6. BYPASS PIPE SHALL BE PRESSURE TESTED WITH POTABLE WATER BEFORE OPERATION.
 7. CONTRACTOR SHALL NOT IMPACT THE EXISTING CULVERTS.

CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO PIPE LAYDOWN AND RESTRAINT ONLY. NO PERMANENT ALTERATION OF THE WATERCOURSE SHALL BE PERMITTED

INSTALL PIPE BEND TO ALIGN WITH DRAIN. PIPE SHALL BE RESTRAINED WITH CONCRETE BLOCKING AND STRAPS OR EQUIVALENT

EXISTING 10' WIDE X 9' HIGH CONCRETE CULVERT

INSTALL PIPE ALONG THE EAST EDGE OF THE CULVERT. PIPE SHALL BE RESTRAINED WITH CONCRETE BLOCKING AND STRAPS OR EQUIVALENT

ROUTE BYPASS SEWER OUTSIDE OF WATERWAY BETWEEN CULVERTS

PROPOSED 18" HDPE DR 11 SANITARY BYPASS INSTALLED AT GRADE

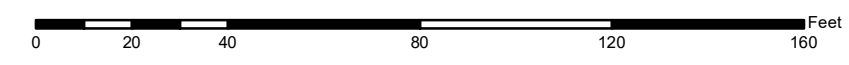
EXISTING 10' WIDE X 9' HIGH CONCRETE CULVERT

INSTALL PIPE BEND TO ALIGN WITH DRAIN. PIPE SHALL BE RESTRAINED WITH CONCRETE BLOCKING AND STRAPS OR EQUIVALENT

Locations displayed here including, but not limited to, the drain easement, rights-of-way and road centerlines are estimates only based on the best available GIS information.

Proposed Bypass	Swift Run culvert (approx)	Manholes	Road Centerline
Swift Run Drain CL	Sanitary Main	Sanitary Lateral	Drain Easement
		Parcels/ROW line	

Bypass Overview Swift Run Detail

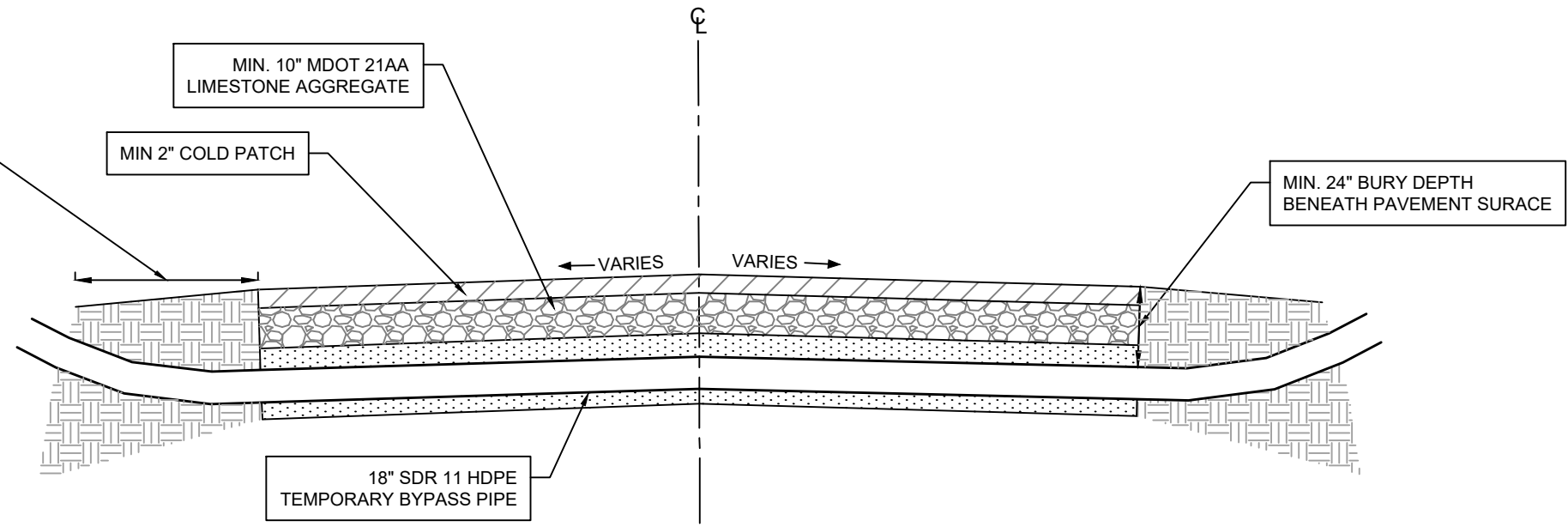


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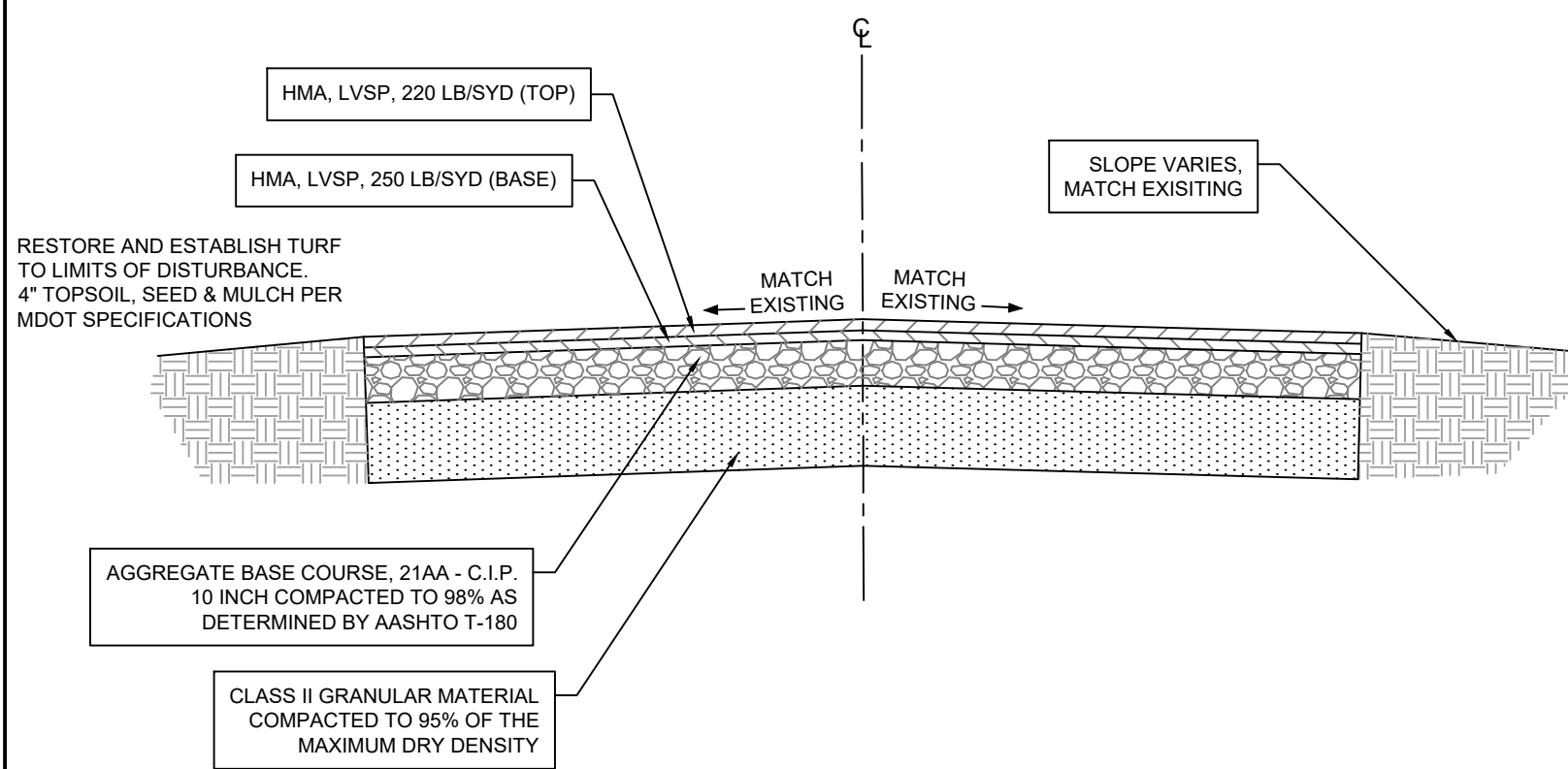
City of Ann Arbor

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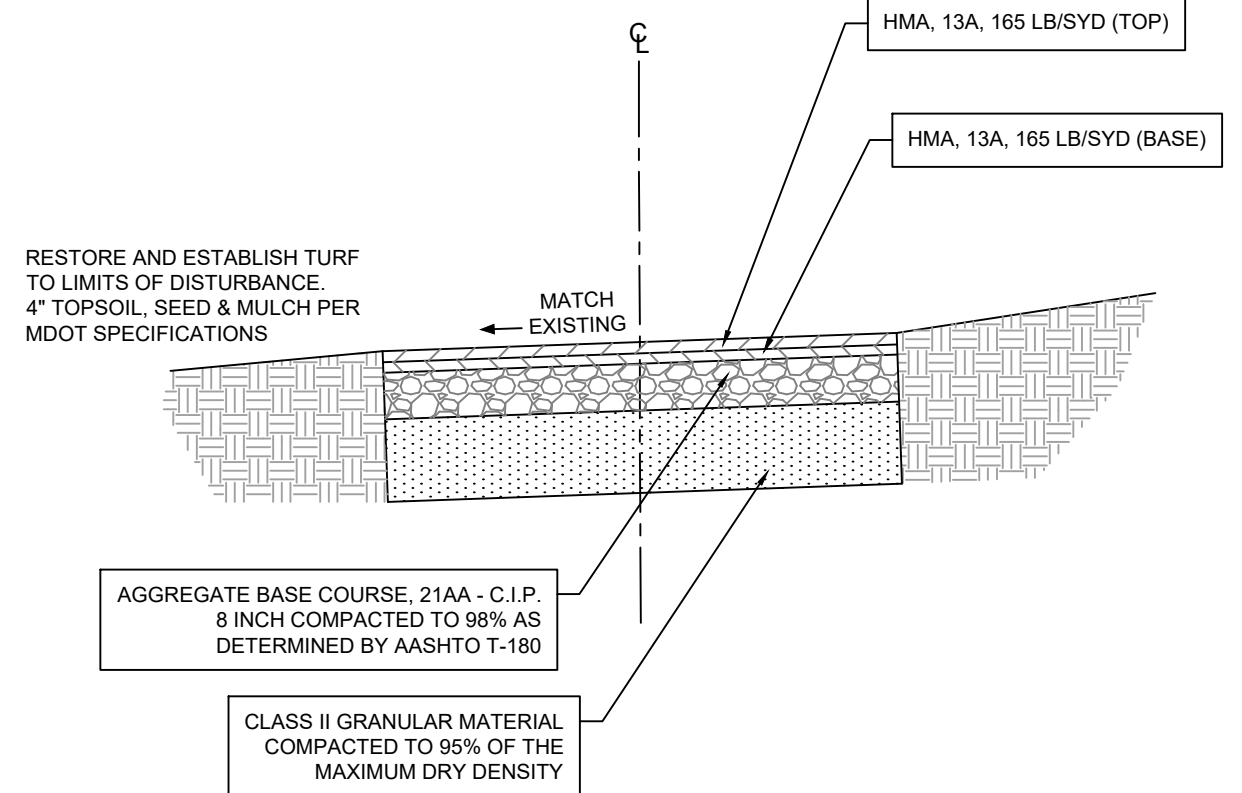
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TEMPORARY ROAD AND DRIVEWAY CROSSING DETAIL



E HURON RIVER SERVICE DRIVE AND THORNOAKS DRIVE TYPICAL SECTION



HMA DRIVEWAY TYPICAL SECTION

Stantec Consulting Michigan Inc.
3754 Ranchero Drive
Ann Arbor MI 48108-2771
Tel: (734) 761-1010
www.stantec.com

Issued	By	Appd	YYYY.MM.DD

811
Know what's below.
Call before you dig.

NOTE:
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

Client
CITY OF ANN ARBOR

Project
SWIFT RUN

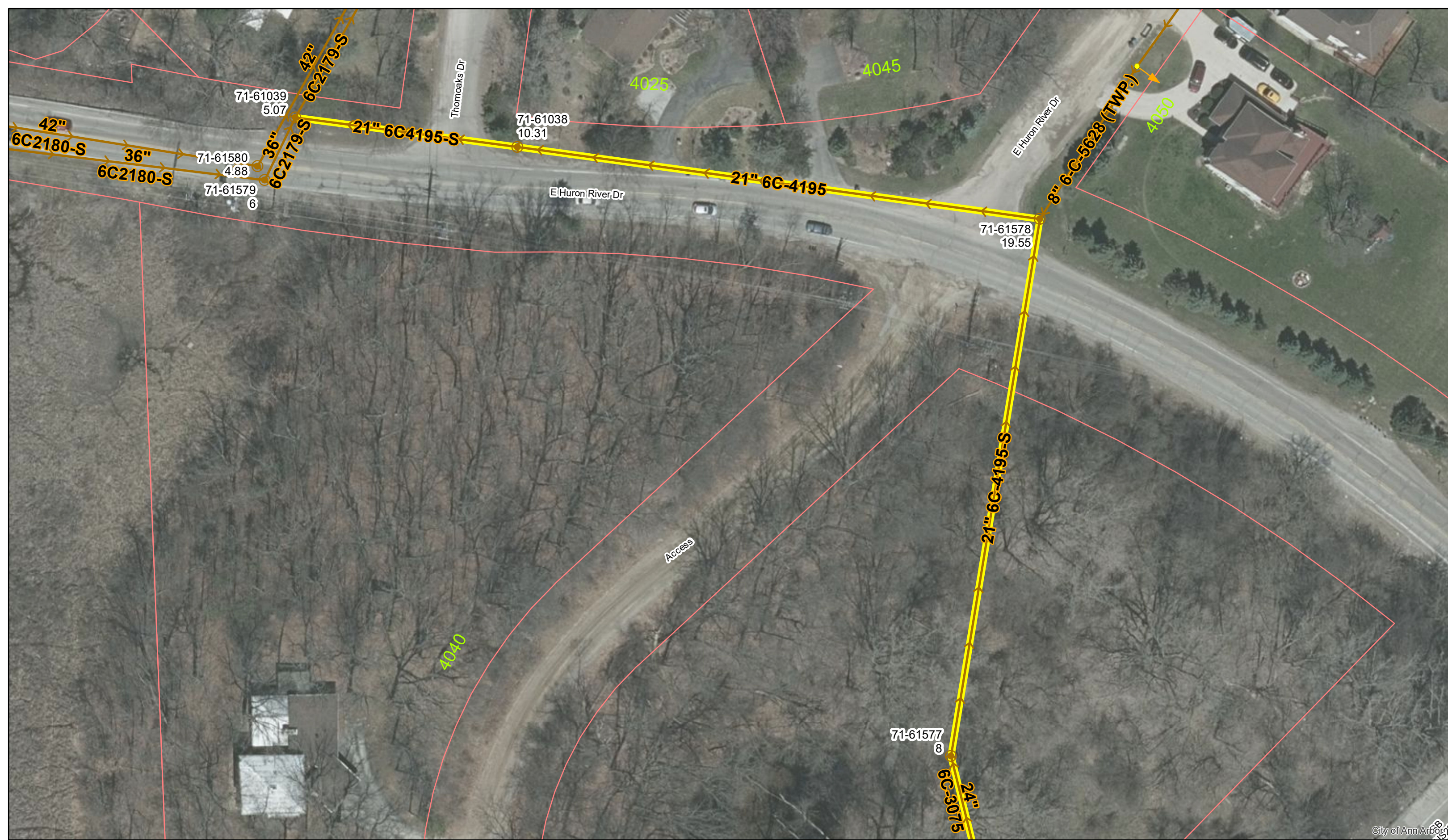
Title
TYPICAL ROAD SECTION DETAILS

Project No.
2075151601

Scale
NO SCALE

Figure No.
01

Sheet
1 of 1

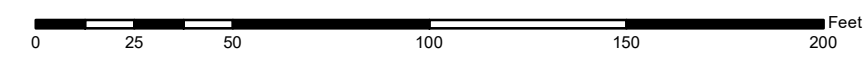


E. Huron River Dr.

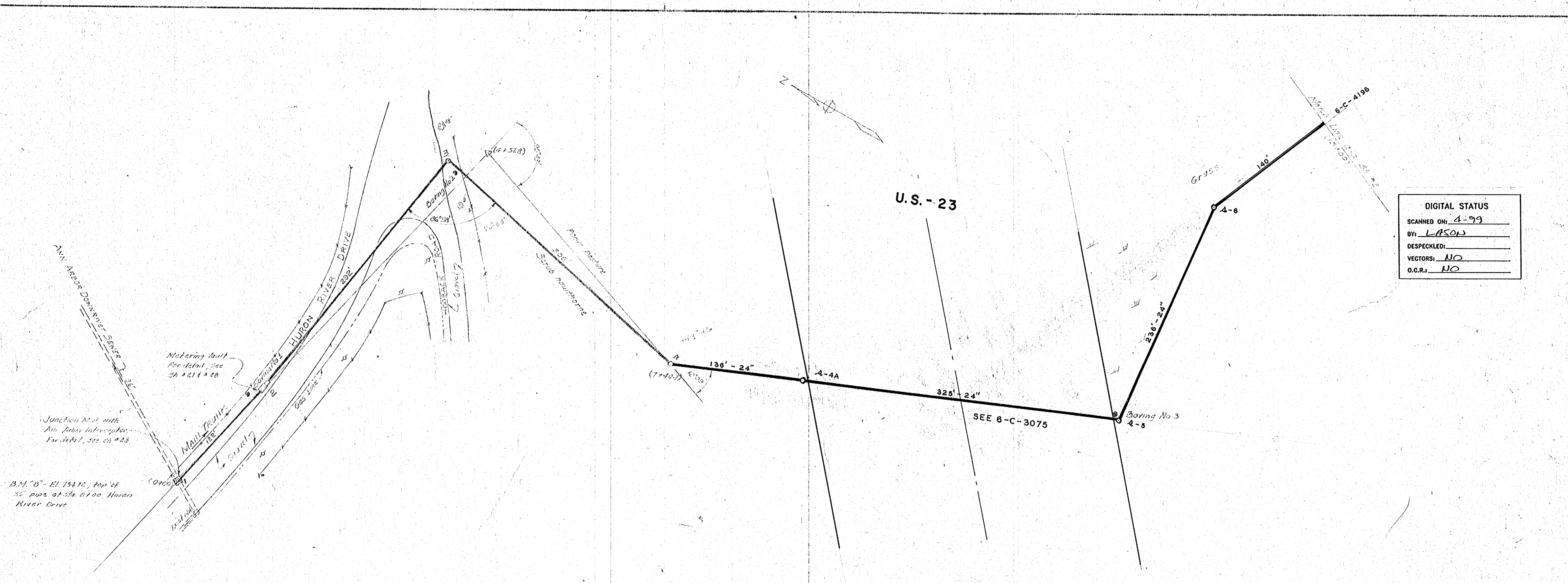


	Manhole		Sanitary Main
	Proposed Lining		Sanitary Lateral

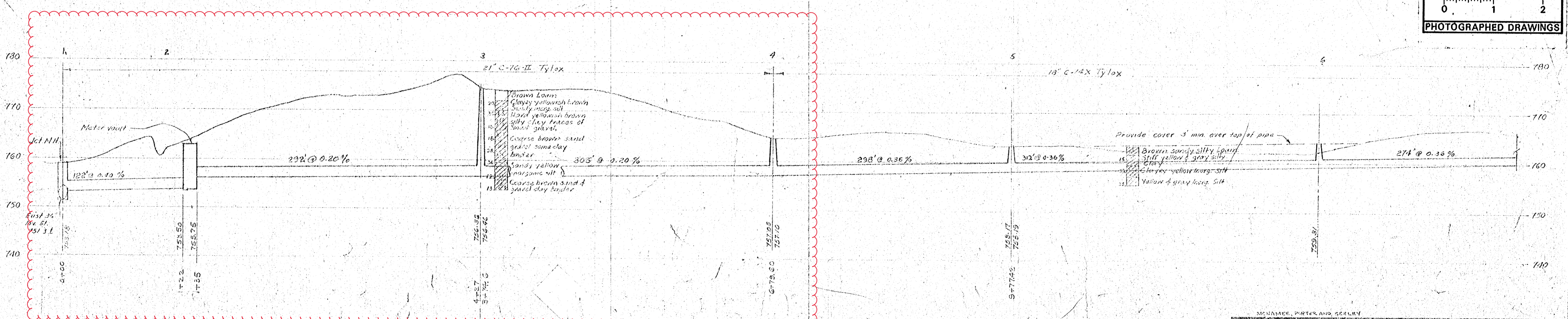
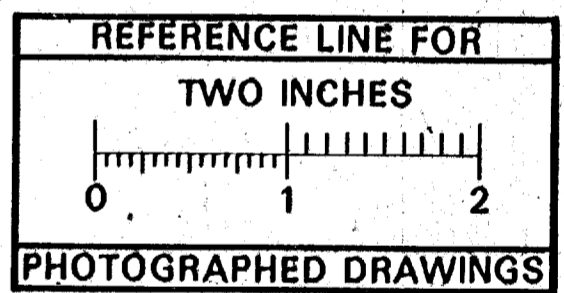
71-XXXXX (Manhole ID)
1.00 (Manhole Depth)



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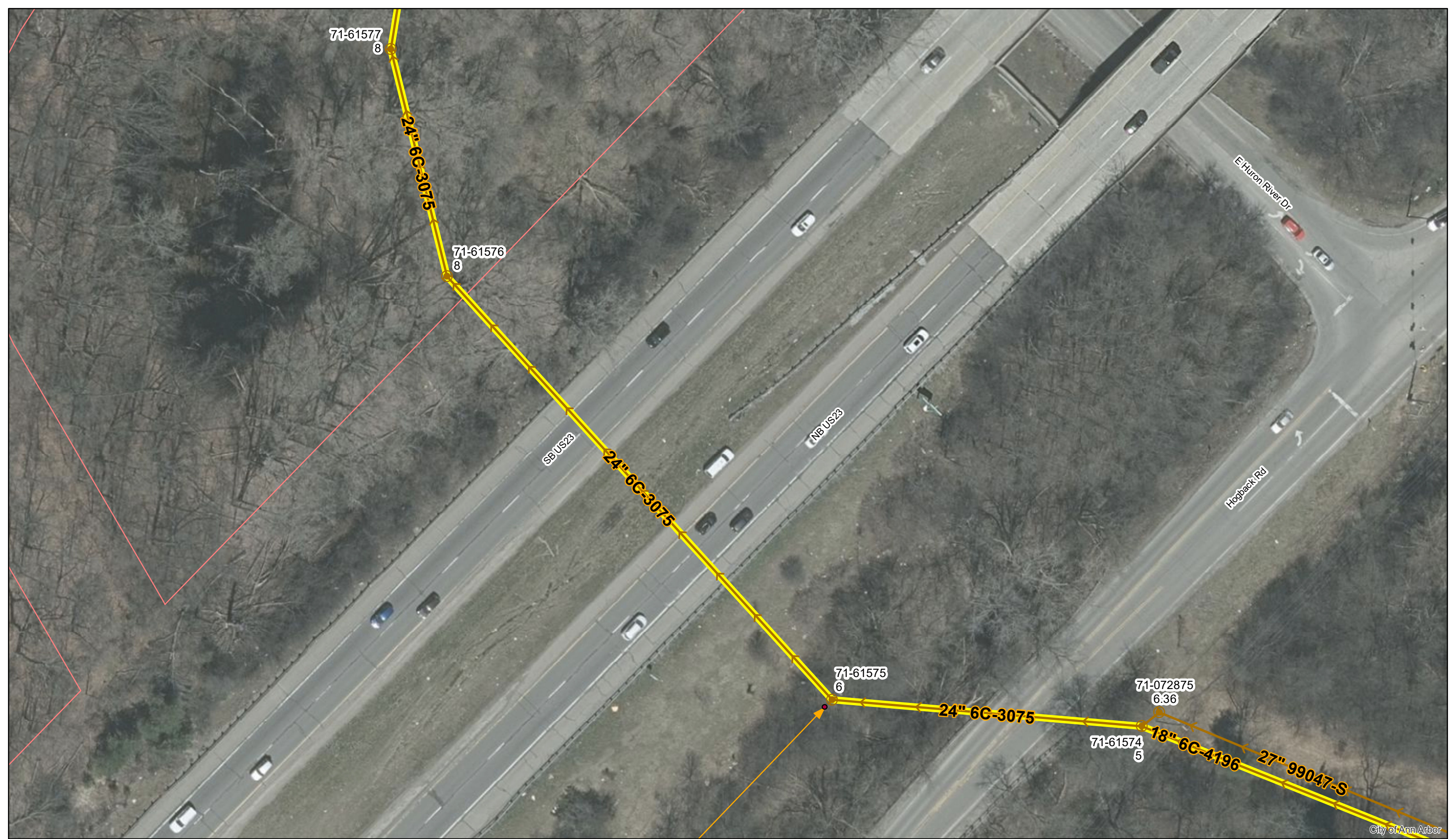


DIGITAL STATUS	
SCANNED ON:	4-99
BY:	LASON
DESPECKLED:	
VECTORS:	NO
O.C.R.:	NO



Digital Status
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By: D6K

MCNAMEE, PORTER AND SEEBY ENGINEERS		PITTSFIELD TOWNSHIP, MICHIGAN	
ANN ARBOR, MICHIGAN		SANITARY SEWERS	
CONTRACT NO. 6483		TRUNK SEWER	
HURON RIVER DRIVE TO SWIFT RUN		CONTRACT NO. 1	
SCALE: 1" = 10'	ISSUED: NOV. 1956	DATE: 1/13/57	
BY: H. L. BRADY	CHECKED: H. L. BRADY	DATE: 1/13/57	
ISSUE: A	NATURE OF REVISION: As Built	DATE: 1/13/57	
6483		6-C-4195	
1		1	
op. 23			

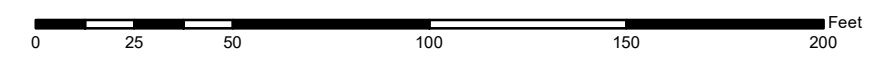


Hogback Rd. & US 23



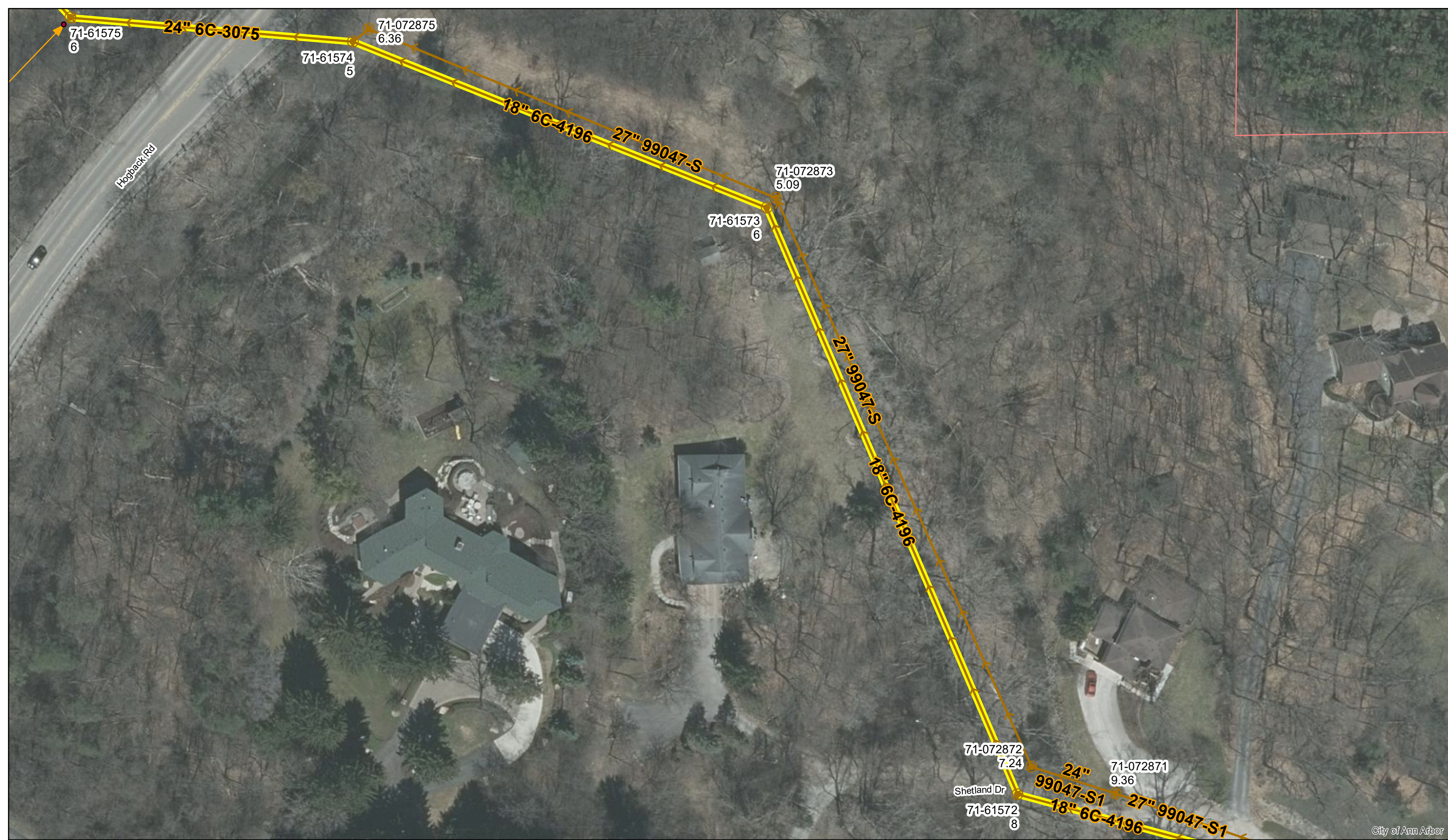
	Manhole		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
1.00 (Manhole Depth)



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City of Ann Arbor



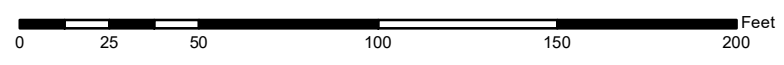
City of Ann Arbor

Shetland Dr.

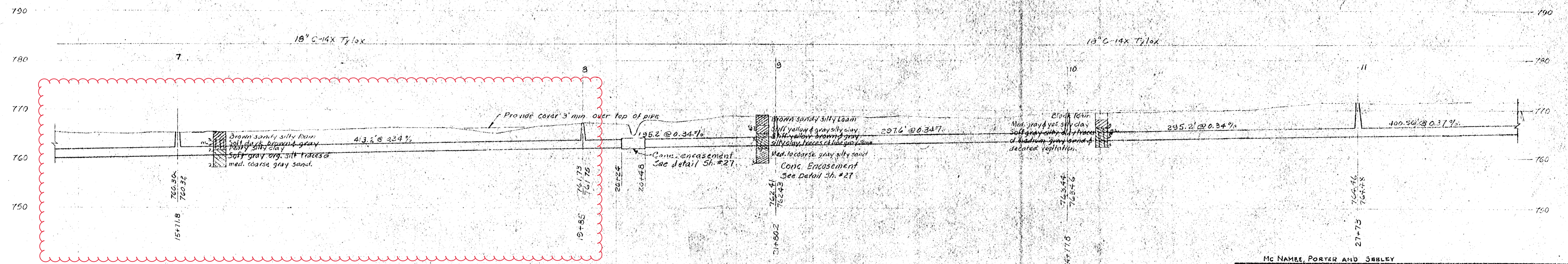
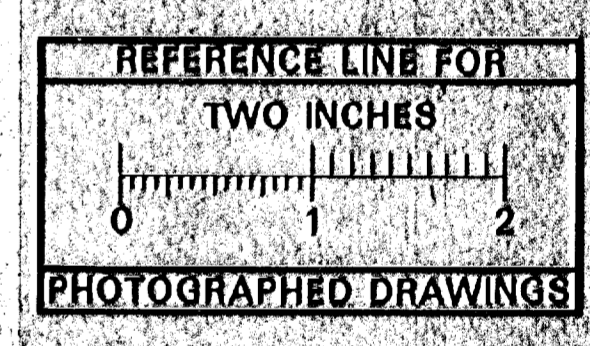
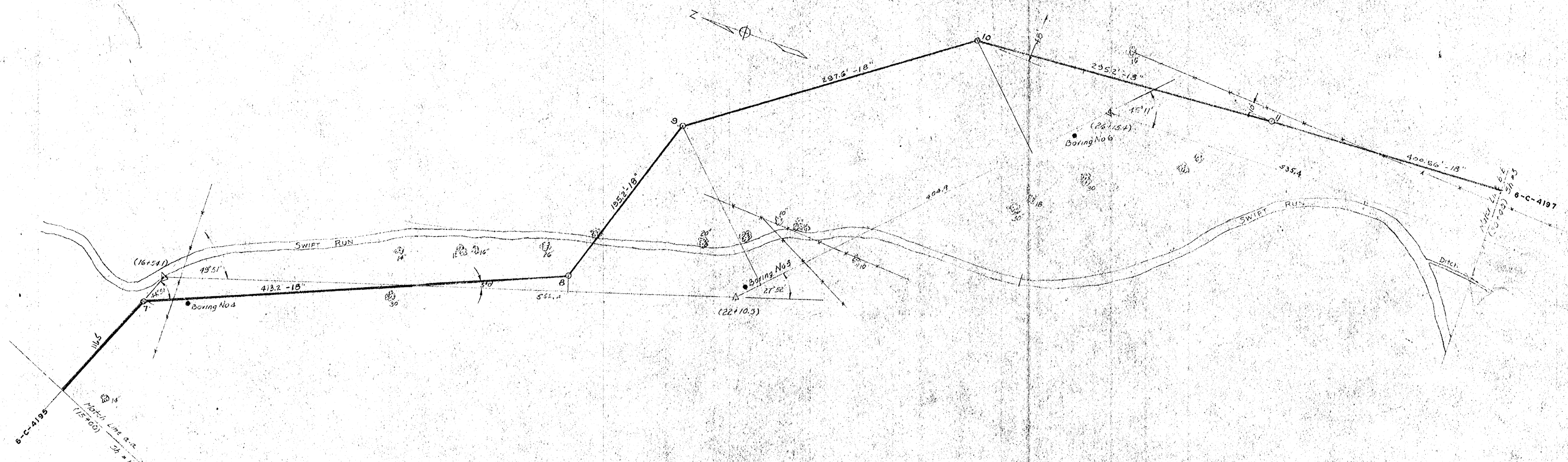


	Manhole		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
1.00 (Manhole Depth)

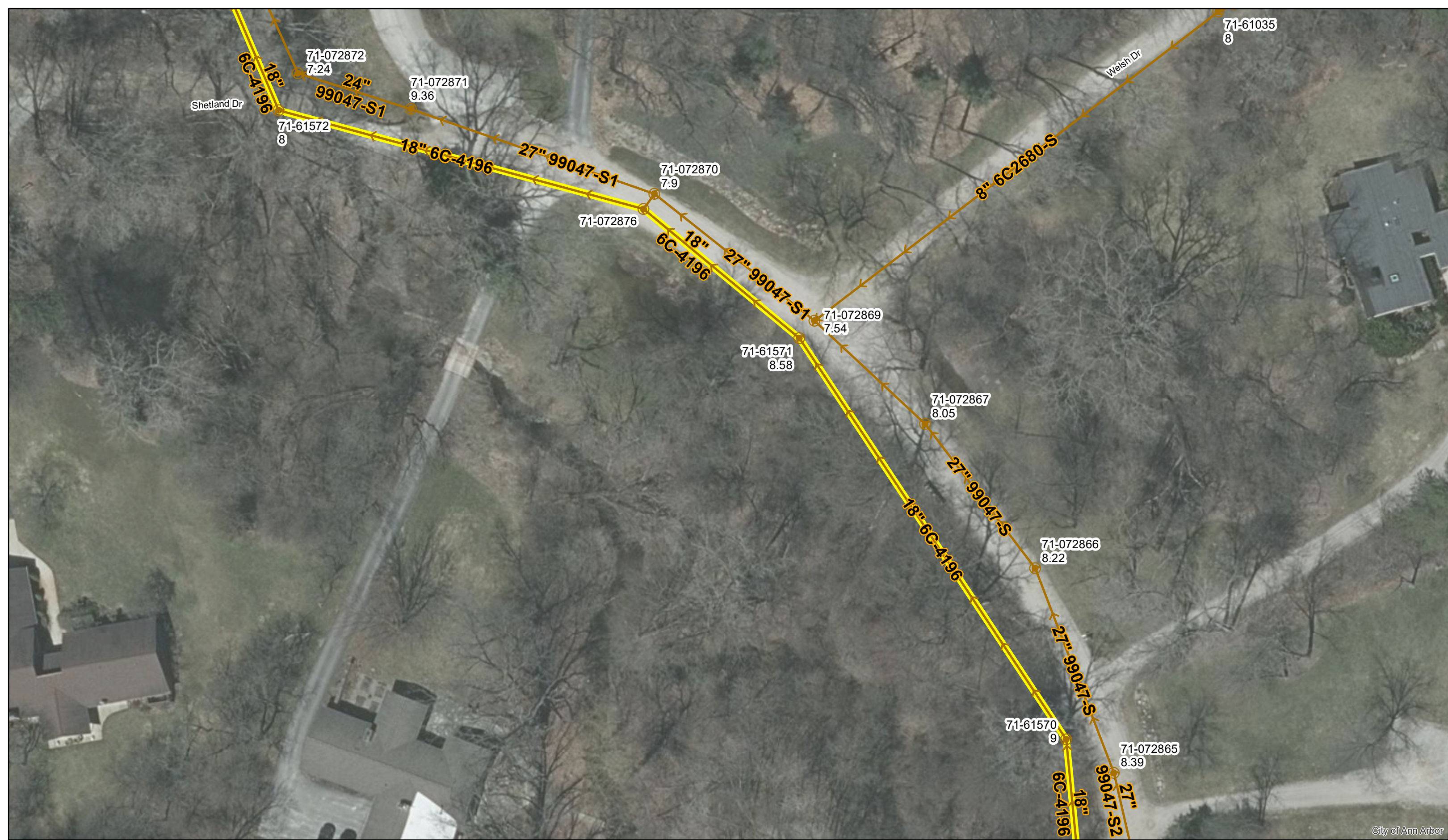


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Mc NAMEE, PORTER AND SBBLEY BRURY, McNAMEE AND PORTER CONSULTING ENGINEERS ANN ARBOR, MICHIGAN				PITTSFIELD TOWNSHIP, MICHIGAN SANITARY SEWERS	
SCALE: 1" = 20'	ISSUED: Nov, 1956	DRAWN: H. L.		CHECKED: CWS	
ISSUE: A	NATURE OF REVISION: As Built	DATE: 1/19/57	TRUNK SEWER		
6-C-4196			ALONG SWIFT RUN N OF CLARK RD		SHEET 2 OF 28



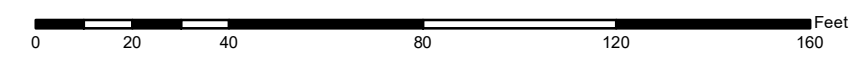
Shetland Dr.

City of Ann Arbor

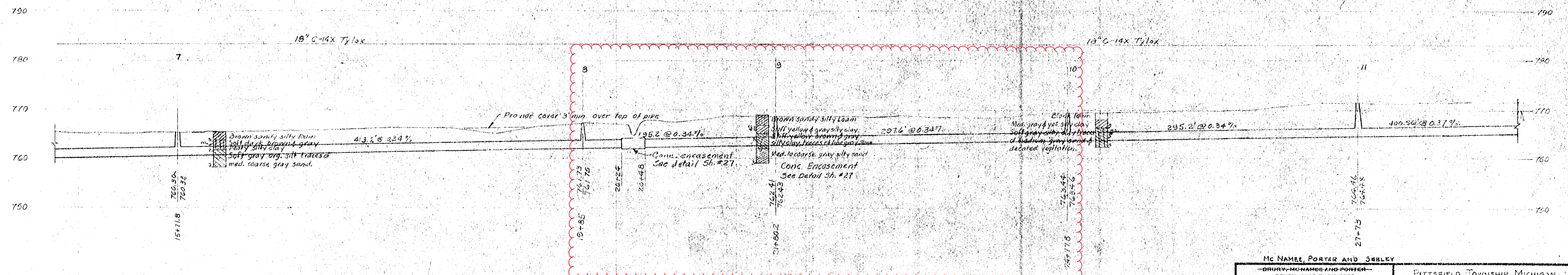
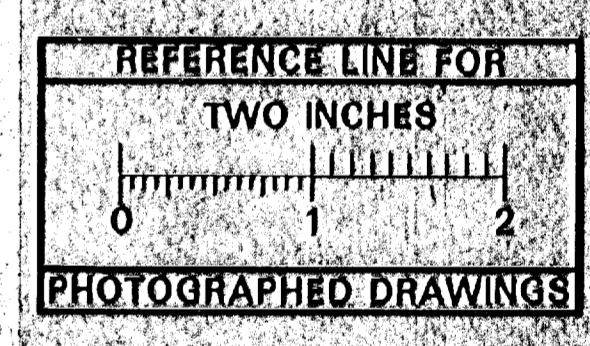
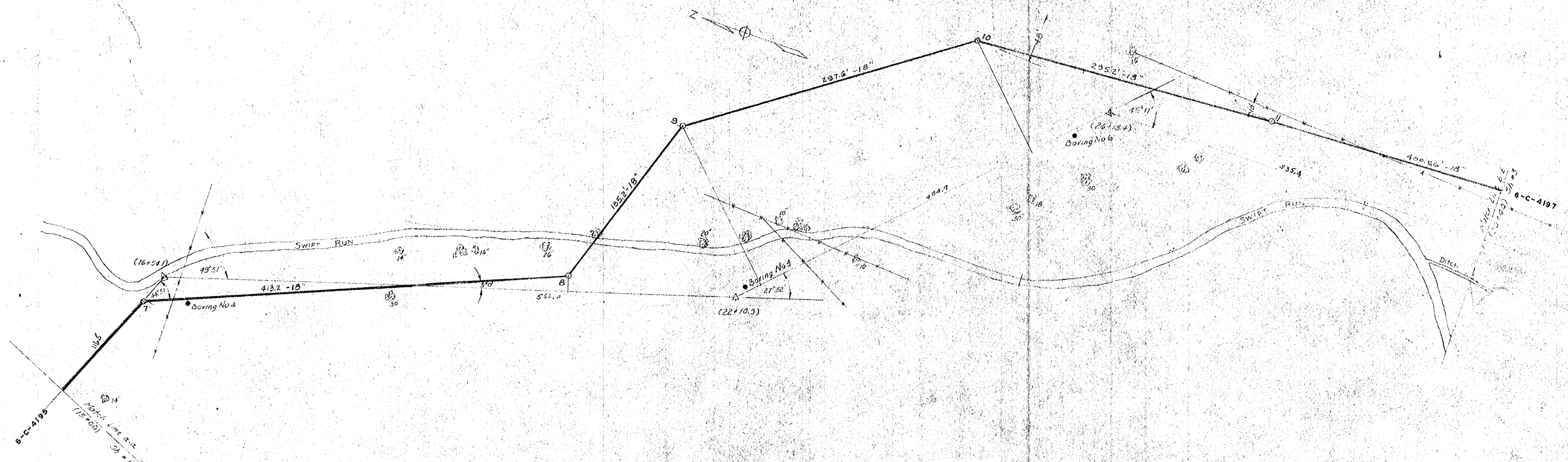


	Manhole		Sanitary Main
	Proposed Lining		Sanitary Lateral

71-XXXXX (Manhole ID)
1.00 (Manhole Depth)

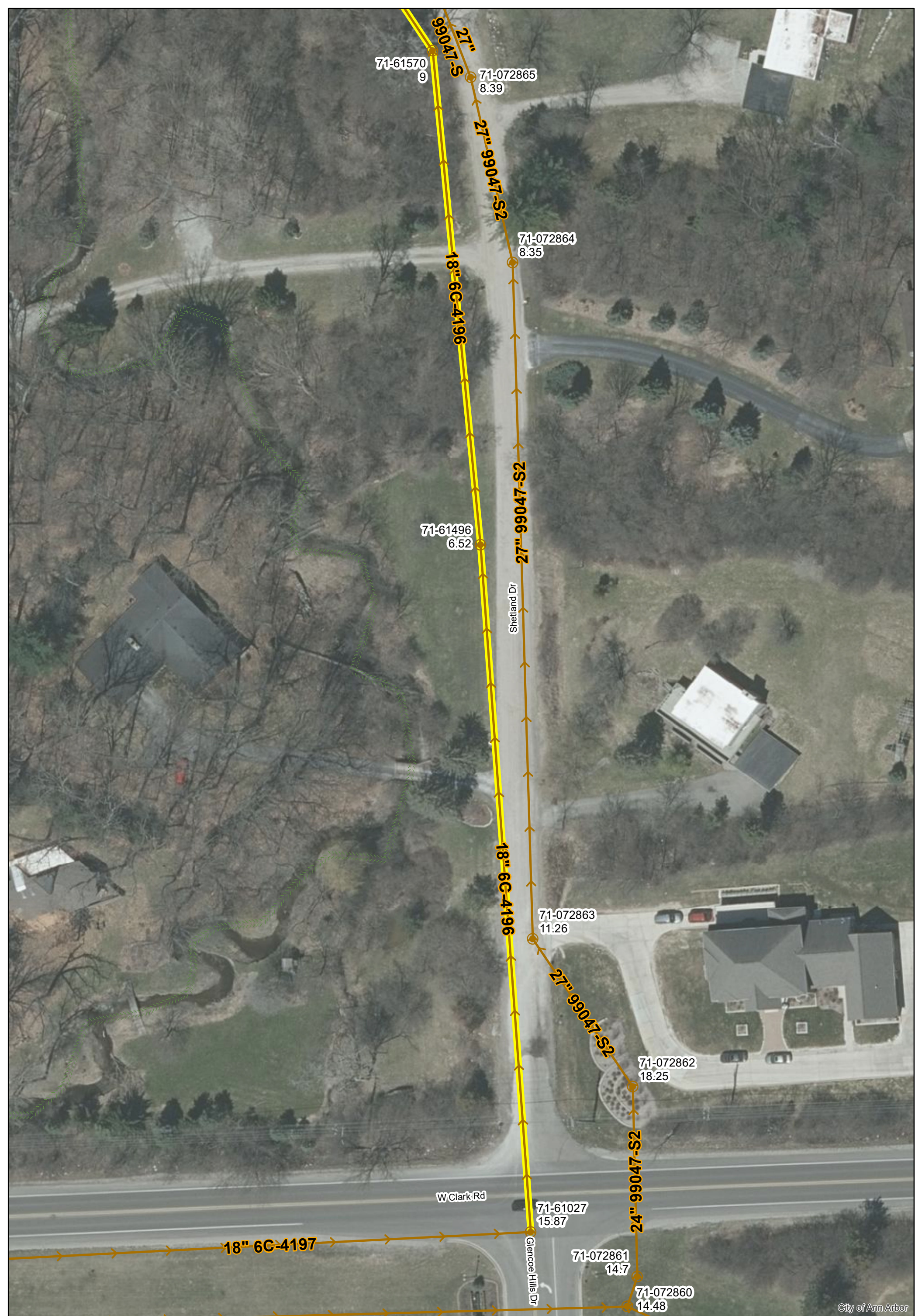


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Mc NAMEE, PORTER AND SBBLEY BRURY, McNAMEE AND PORTER CONSULTING ENGINEERS ANN ARBOR, MICHIGAN				PITTSFIELD TOWNSHIP, MICHIGAN SANITARY SEWERS TRUNK SEWER ALONG SWIFT RUN N OF CLARK RD	
SCALE	ISSUED	NOV, 1956			
DRAWN H. L.	TRACED H. L.	CHECKED CWS			
ISSUE	NATURE OF REVISION	DATE			
A	As Built	1/11/57			
6-C-4196			CONTRACT 1		SHEET 2 OF 28



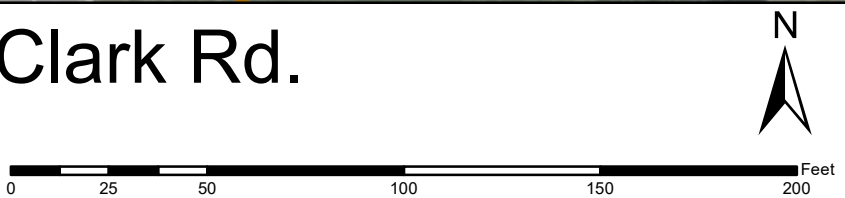
City of Ann Arbor

Shetland Dr. & W. Clark Rd.

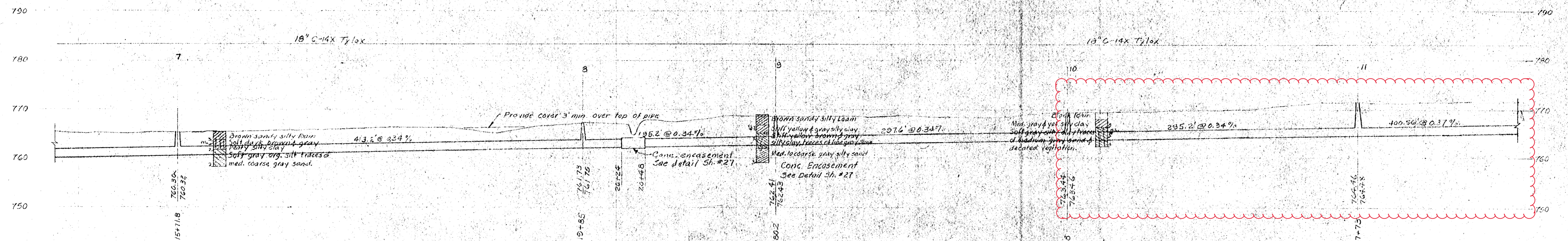
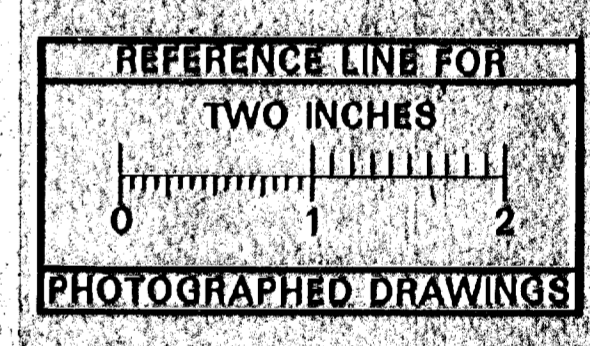
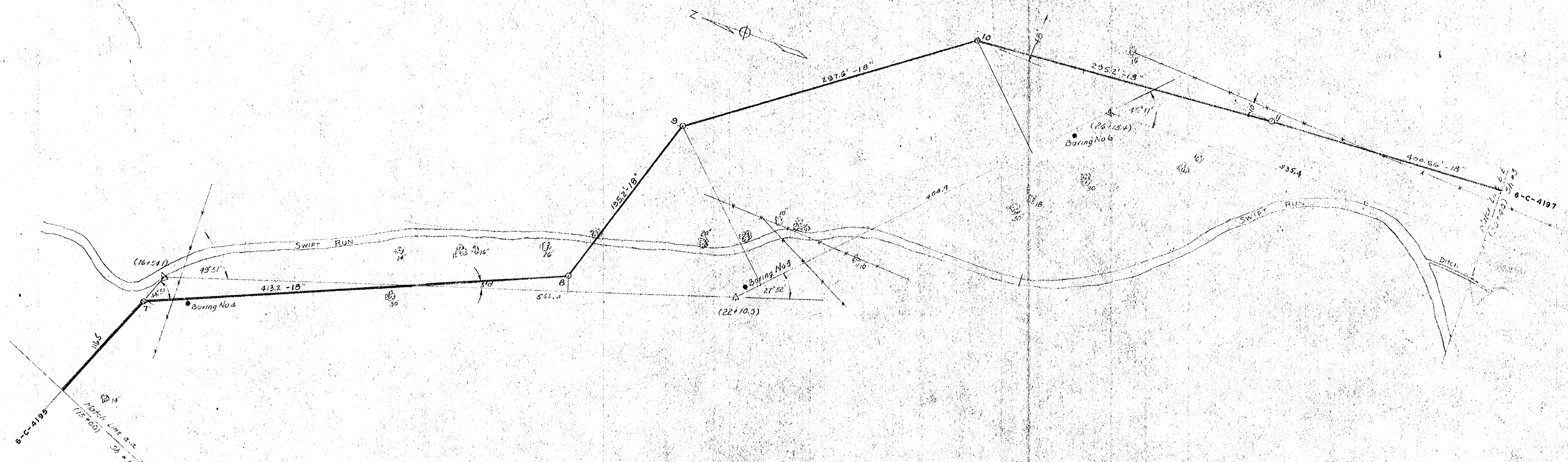


- Manhole
- Sanitary Main
- Proposed Lining
- Sanitary Lateral

71-XXXXX (Manhole ID)
1.00 (Manhole Depth)

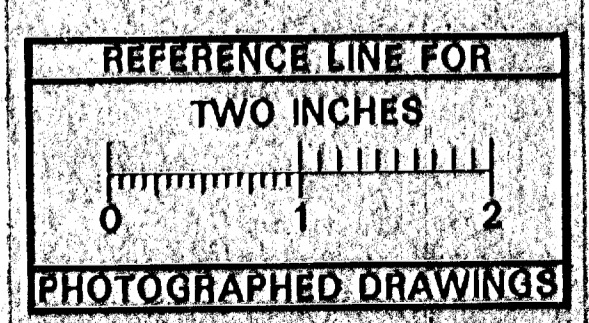
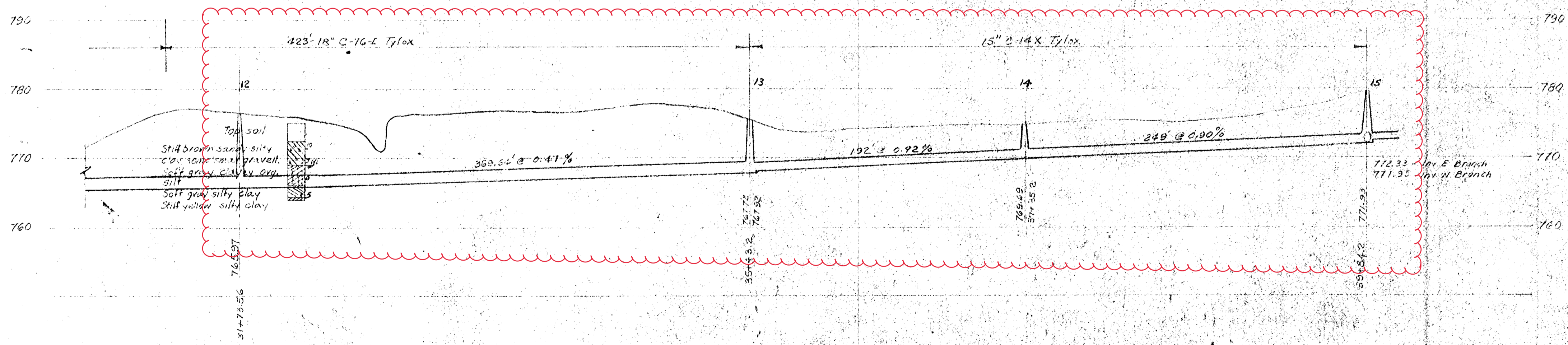
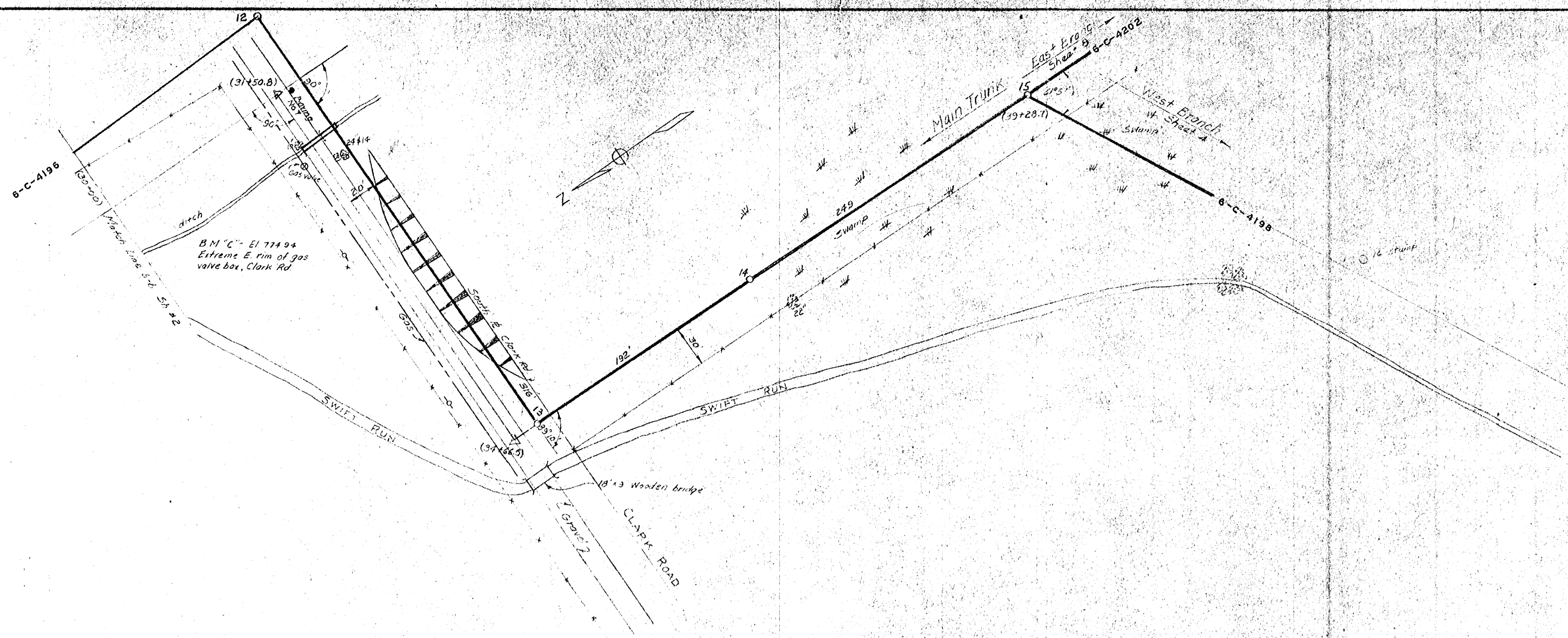


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Mc NAMEE, PORTER AND SBBLEY BRURY, McNAMEE AND PORTER CONSULTING ENGINEERS ANN ARBOR, MICHIGAN				PITTSFIELD TOWNSHIP, MICHIGAN SANITARY SEWERS TRUNK SEWER ALONG SWIFT RUN N OF CLARK RD	
SCALE	ISSUED	NOV, 1956			
DRAWN H. L.	TRACED H. L.	CHECKED CWS			
ISSUE	NATURE OF REVISION	DATE			
A	As Built	1/19/57			
6-C-4196			CONTRACT 1		SHEET 2 OF 28



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By: D6K

Mc NAMEE, PORTER AND SEELEY ENGINEERS AND ARCHITECTS CONSULTING ENGINEERS ANN ARBOR, MICHIGAN		PITTSFIELD TOWNSHIP, MICHIGAN SANITARY SEWERS TRUNK SEWER	
SCALE: 1" = 10'	ISSUED: NOV. 1950	CLARK RD TO JUNCTION OF E. & W. BR.	
DRAWN: H. L. TRACER	CHECKED: CWS	CONTRACT: 1	SHEET: 3
ISSUE: 1	NATURE OF REVISION: As-built	DATE: 5/31/51	of 28
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