

2012 INDUSTRIAL PARK IMPROVEMENTS
PROJECT NO. 0959ST
CITY OF DULUTH

ADDENDUM #²~~X~~
JUNE~~X~~ 2012
Page 2 of 3

**ADDENDUM #2
2012 INDUSTRIAL PARK IMPROVEMENTS
CITY OF DULUTH
PROJECT 0959ST
BID NUMBER 12-0334
JUNE 19, 2012**

NOTICE

Page 2 of 3

This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addendums and is hereby made a part of the Contract Documents. Please note receipt of this Addendum on the Request for Bid. The bid date remains unchanged.

BID DOCUMENTS

Replace the original Exhibit A with the attached revised Exhibit A.

DRAWINGS

Revisions to the drawings have been made with and are noted with a "clouded" perimeter and triangular footnote with the number 2, representing addendum no. 2.

Additional changes to the drawings are as follows:

1. Eliminate all sidewalk on the cul-de-sac on the north end of Nick Glumac Drive
2. Provide perforated subdrains around the cul-de-sac island at the end of Nick Glumac Drive. Connect subdrains to PCB 35. The pavement in this cul-de-sac is sloped to the center and the subgrade slope shall match the slope of the pavement.
3. On plan sheet DM1-DM3, delete part of Note 2, which states "ALL AREAS DISTURBED SHALL BE RESTORED PER SWPPP.", replace with, "ALL AREAS DISTURBED SHALL BE RESTORED WITH 4" OF TOPSOIL BORROW (MnDOT 3877), MnDOT SEED MIX 250 AT 70 LBS/AC AND MULCH TYPE 1 OR 3 AT 2 TONS PER ACRE. EROSION CONTROL BLANKET WILL BE REQUIRED IN PLACE OF MULCH ON SLOPE 1:3 (v:h) OR GREATER AND ALL DITCH BOTTOMS AND EXTENDING 12" VERTICALLY UP THE SIDES PERPENDICULAR FROM THE DITCH BOTTOM."

SPECIFICATION: SPECIAL PROVISIONS

SP-2 (1505) COOPERATION WITH OTHERS

Add the following to this section:

CN Railroad – is the property owner along the entire southern and eastern boundary of the Atlas Industrial Park. No construction activity or disturbance is allowed on this property, including access of any kind.

SP-10 (2105) EXCAVATION AND EMBANKMENT

Add the following to this section:

Removal of the existing / original infrastructure not shown on the plans will be paid for following City Standard Construction Specification section 1904. Work shall be approved prior to removal and disposal.

LIFT STATION TECHNICAL SPECIFICATIONS

DIVISION 44

SECTION 44 42 56.40 – LIFT STATION SUBMERSIBLE PUMPS

REPLACE Part 2, Section 2.03 A with this section:

- A. Each raw wastewater pump shall meet design pumping conditions as follows:

Lift Station No. 53

Number of Pumps	2
Material Being Pumped	Municipal Wastewater

Normal Operating Conditions(Operational Design Point(s))

Single Pump Operation (each pump):

Rated GPM	700 gpm
Min Efficiency at Rated GPM	45%
Rated TDH	28 ft
Shut Off Head (0 gpm)	57 ft ±

Single Pump Operation (each pump):

Rated GPM (each pump)	300 gpm
Min Efficiency at Rated GPM	56%
Rated TDH	47 ft
Shut Off Head (0 gpm)	57 ft ±

Single Pump Operation (each pump):

Rated GPM (each pump)	450 gpm
Min Efficiency at Rated GPM	55%
Rated TDH	40 ft
Shut Off Head (0 gpm)	57 ft ±

Pump Characteristics

Model #	KRT F 80-250-265
Impeller design:	Vortex, non-clogging
Speed	1150 rpm
Min Solid Size	3.0"

Motor Characteristics

Explosion Proof	Yes
Max. HP	10 HP
Voltage & Phase	208 volt-3 phase
Service Factor	1.15
NEMA Code	H
Housing Type	Air filled
Max. Amp Draw (FLA)	23.2 amps

REPLACE Part 2, Section 2.04 A with this section:

- A. Each raw wastewater pump shall meet design pumping conditions as follows:

Lift Station No. 53

Number of Pumps	2
Material Being Pumped	Municipal Wastewater

Normal Operating Conditions(Operational Design Point(s))

Single Pump Operation (each pump):

Rated GPM	700 gpm
Min Efficiency at Rated GPM	62%
Rated TDH	38 ft
Shut Off Head (0 gpm)	71 ft ±

Single Pump Operation (each pump):

Rated GPM (each pump)	300 gpm
Min Efficiency at Rated GPM	48%
Rated TDH	55 ft
Shut Off Head (0 gpm)	71 ft ±

Single Pump Operation (each pump):

Rated GPM (each pump)	450 gpm
Min Efficiency at Rated GPM	60%
Rated TDH	47.5 ft
Shut Off Head (0 gpm)	71 ft ±

Pump Characteristics

Model #	NP3127.181
Impeller design:	Non-clogging
Speed	1750 rpm
Min Solid Size	3.0"

Motor Characteristics

Model	21-12-4AL
Explosion Proof	Yes
Max. HP	10 HP
Voltage & Phase	208 volt-3 phase
Service Factor	1.15

END OF ADDENDUM

CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES

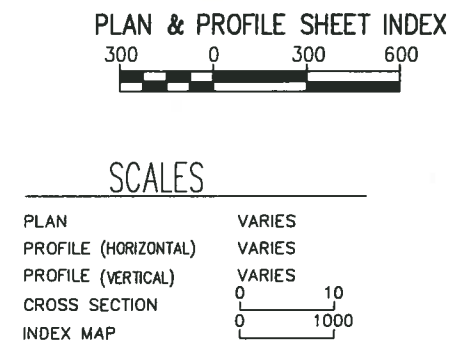
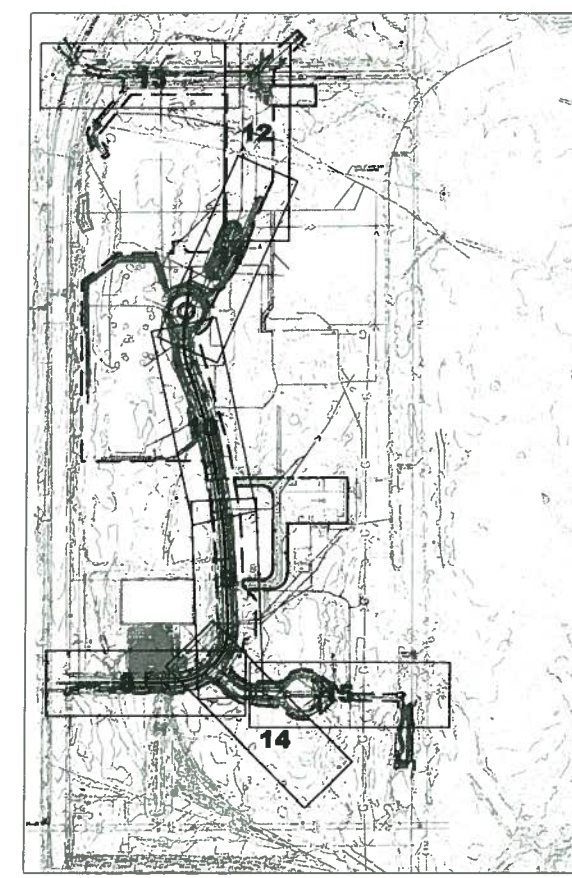
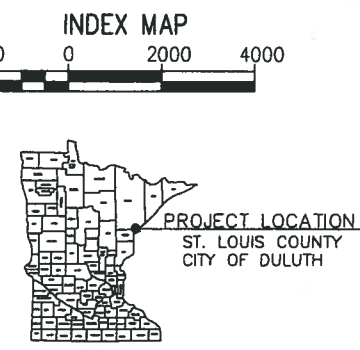
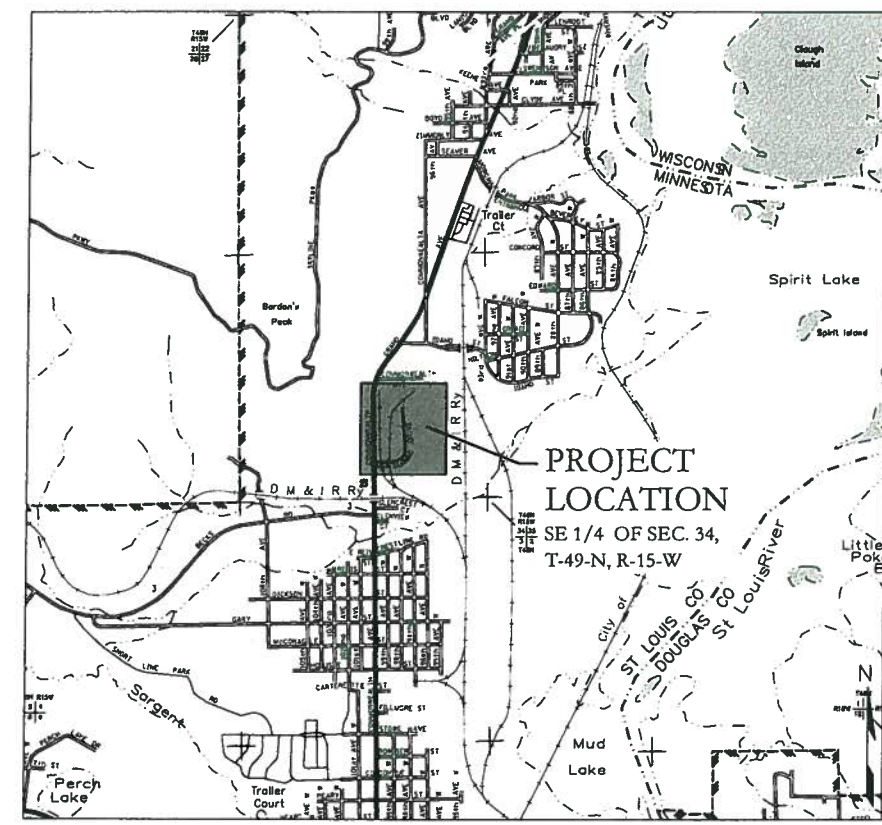
ENGINEERING DIVISION

ATLAS INDUSTRIAL PARK IMPROVEMENTS

CONSTRUCTION PLANS FOR: ROADWAY AND UTILITY IMPROVEMENTS.

LOCATED ON: NICK GLUMAC DRIVE, COMMONWEALTH AVENUE.

GROSS LENGTH --- FEET --- MILE
BRIDGES-LENGTH --- FEET --- MILE
EXCEPTIONS-LENGTH --- FEET --- MILE
NET LENGTH --- FEET --- MILE



WARNING
LOCATION OF UNDERGROUND UTILITIES TO BE
VERIFIED BY CONTRACTOR. CALL BEFORE
DIGGING. GOPHER STATE ONE CALL
1-800-252-1166 REQUIRED BY LAW

06/11/12	ADDENDUM 2	---
06/01/12	ADDENDUM 1 - NO PLAN CHANGES	---
NO	DATE	REVISION
		SHEETS

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT ENGINEERING DIVISION 2011 EDITION STANDARD CONSTRUCTION SPECIFICATION WITH 2012 AMENDMENTS SHALL APPLY.
THE 2360 PLANT MIXED ASPHALT PAVEMENT COMBINED 2360/2350 (GYRATORY/MARSHALL DESIGN) SPECIFICATION FOR 2012 CONSTRUCTION SEASON SHALL APPLY, AVAILABLE AT
<http://www.mrr.dot.state.mn.us/pavement/bituminous/bituminous.asp>
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED FEBRUARY 2011.
<http://www.dot.state.mn.us/trafficeng/atepubl/fieldmanual2011/index.html>

INDEX

SHEET	DESCRIPTION
1	TITLE SHEET
EX1-EX3	EXISTING SITE PLAN
DM1-DM3	DEMOLITION AND TEMPORARY EROSION CONTROL PLAN
PP01-PP09	PLAN AND PROFILE - UTILITIES, EAST SPUR, AND NORTH CUL-DE-SAC
DTL1-DTL12	CONSTRUCTION DETAILS
G2-G3	LIFT STATION
PM1-PM2	LIFT STATION
E1-E3	LIFT STATION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

THOMAS A. JOHNSON

PROJECT ENGINEER (TYPED OR PRINTED NAME)

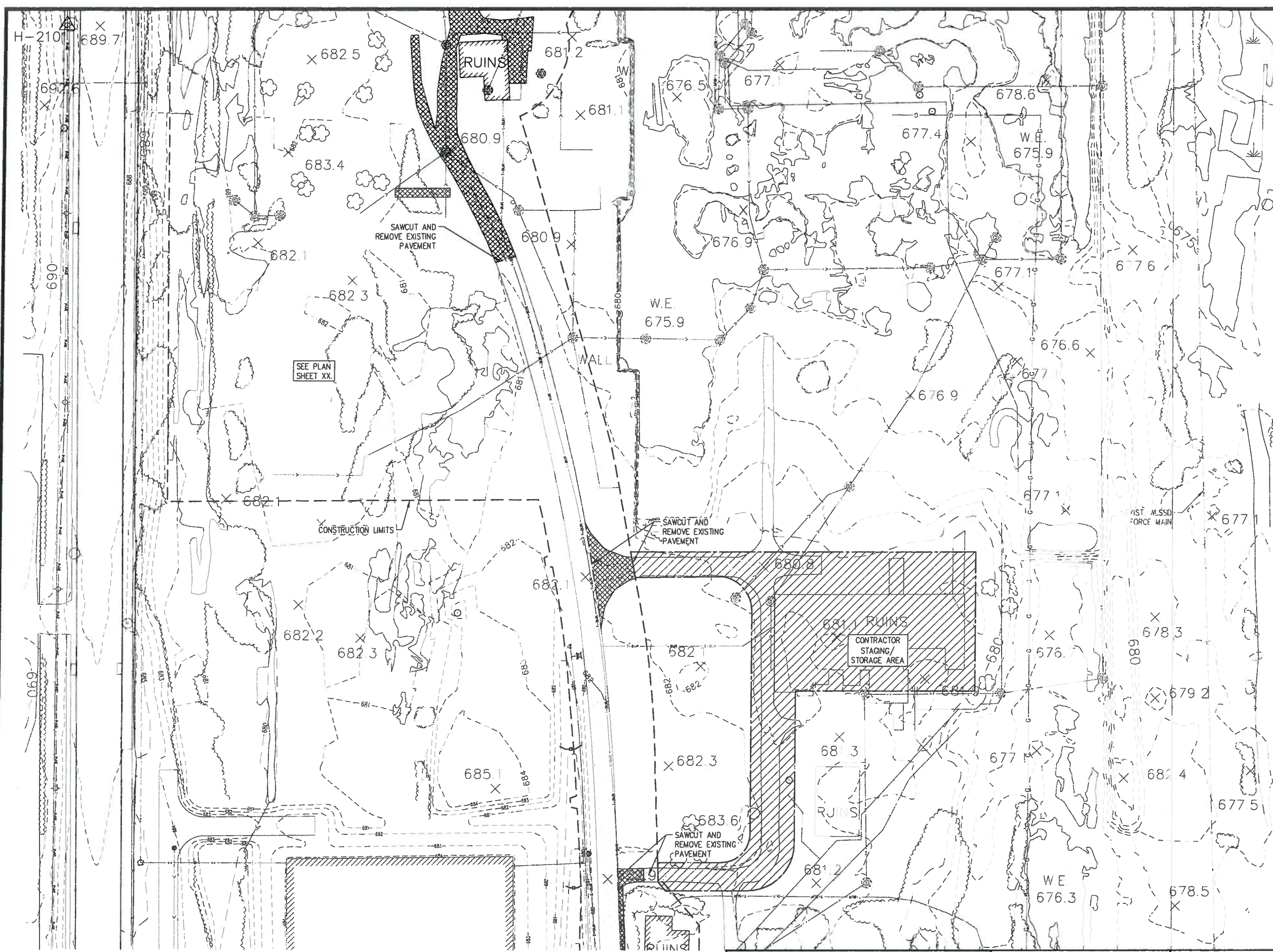
PROJECT ENGINEER 5/25/12 46744
DATE REG. No.

CITY APPROVALS:

APPROVED	CHIEF ENGINEER OF TRANSPORTATION	DATE
APPROVED	CHIEF ENGINEER OF UTILITIES	DATE
APPROVED	CITY ENGINEER	DATE

CITY OF DULUTH PROJECT No. 0959 ST

TITLE SHEET 1



NOTES:

1. SITE CONTAINS ABANDONED IN-PLACE UTILITIES, PAVEMENTS, BUILDING SLABS, AND FOUNDATIONS. ANY OF THE ABOVE NOTED ITEMS SHOWN IN THE PLAN TO BE REMOVED TO PERFORM THE WORK SHALL BE INCLUDED IN THE BASE BID. ALL UTILITIES, PAVEMENTS, BUILDING SLABS, AND FOUNDATIONS NOT SHOWN AND REQUIRE REMOVAL FOR THE PROPOSED WORK SHALL FOLLOW ESTABLISHED PROCEDURES FOR UNIT PRICE REMOVAL ITEM.
2. CONTRACTOR SHALL CLEAR AND GRUB AS NEEDED TO COMPLETE THE WORK. ALL AREAS DISTURBED SHALL BE RESTORED PER SWPPP.
3. PROTECT EXISTING CONCRETE PAVEMENT FROM DAMAGE. UTILITY CROSSINGS SHALL BE DIRECTIONALLY DRILLED. UTILITY TRENCHING ADJACENT TO ROADWAY SHALL USE A TRENCH BOX AS NEEDED TO PREVENT DISTURBANCE TO THE CONCRETE PAVEMENT AND ITS BEARING ZONE.

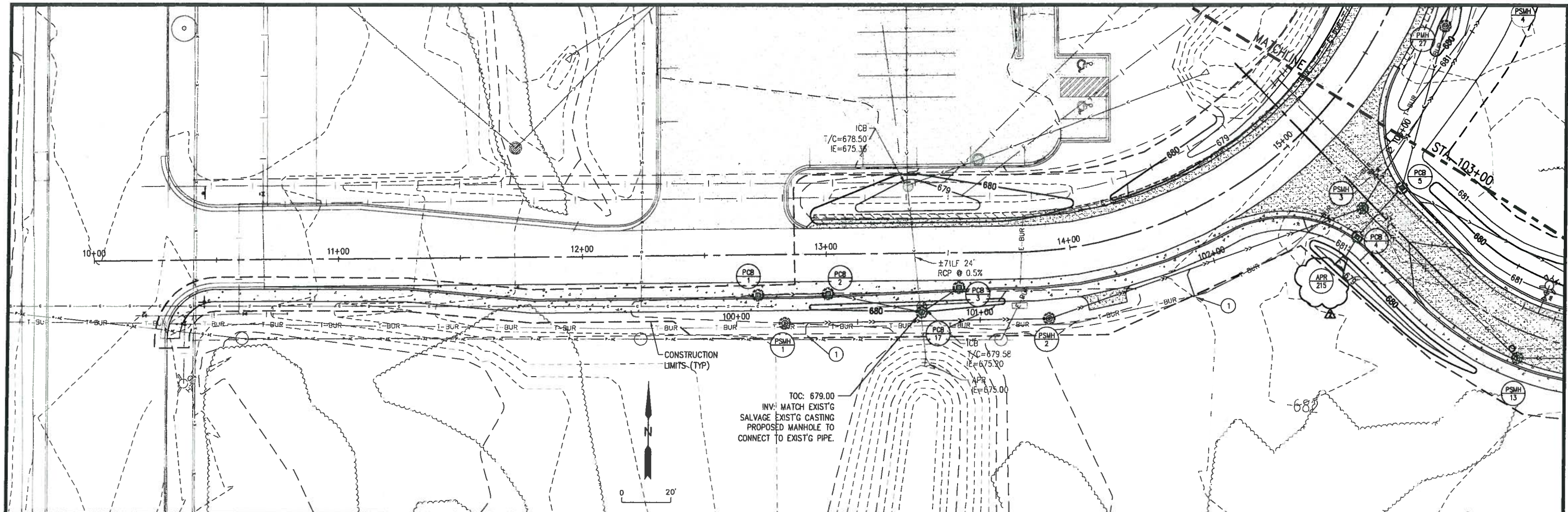
THIS EROSION CONTROL PLAN AND THE SWPPP IS A STARTING POINT FOR THE PROJECT. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO COMPLETE THE WORK AND THE REQUIREMENTS OF THE NPDES-CA PERMIT AS DISCUSSED IN THE SWPPP. CONTRACTOR SHALL BE PROACTIVE AND INNOVATIVE TO ADDRESS THE EROSION/SEDIMENT CONTROL NEEDS OF THE PROJECT AND ADJUST/AMEND THE SWPPP AS SITE CONDITIONS AND CONSTRUCTION METHODS DICTATE.

WARNING
BEFORE DIGGING
CALL 1-800-252-1166
REQUIRED BY LAW



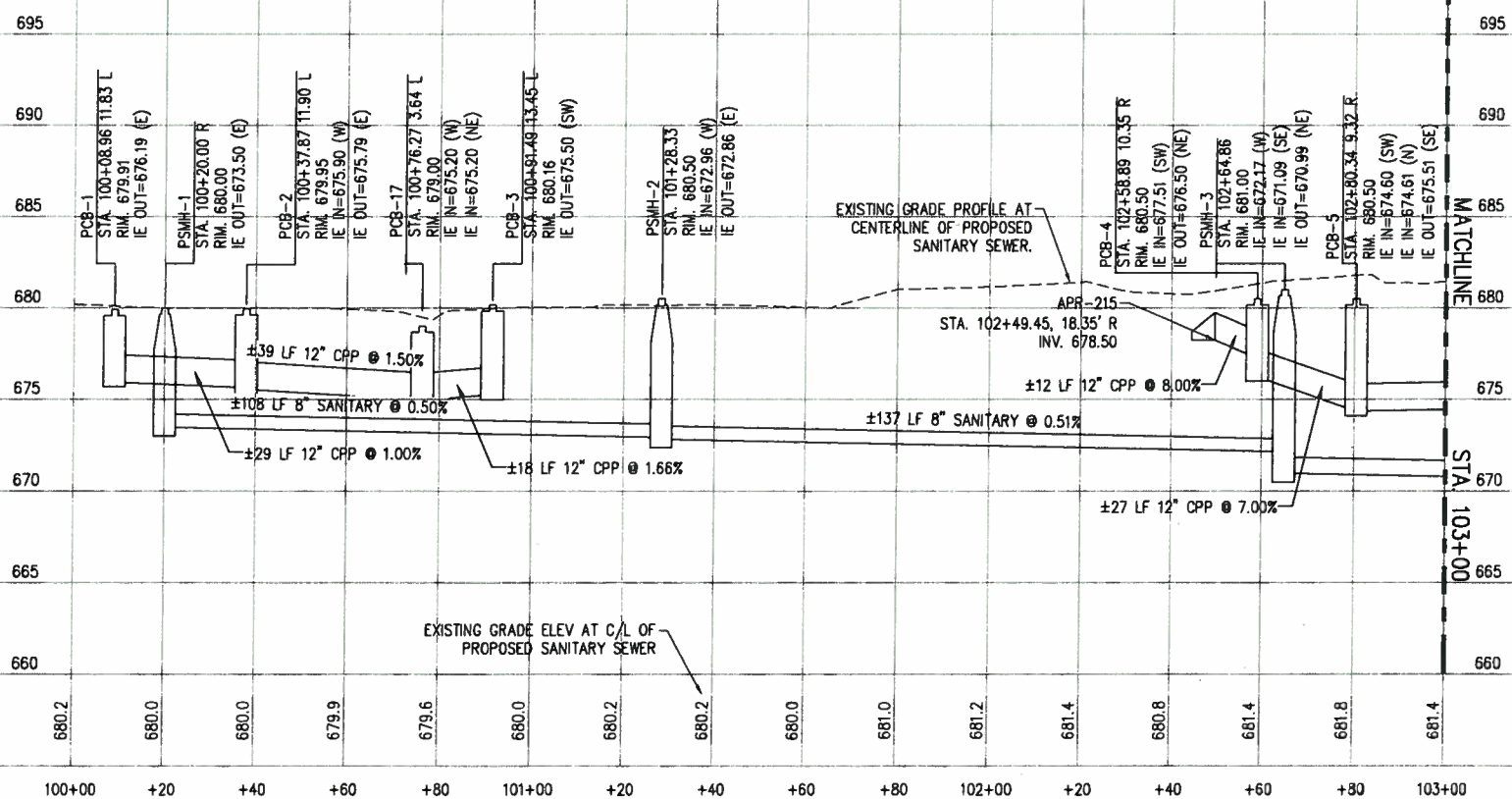
LEGEND

- REMOVE EXISTING PAVEMENT
- EXISTING RUINS/FOUNDATION TO BE REMOVED
- CONSTRUCTION LIMITS
- SILT FENCE
- INLET PROTECTION



WARNING
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BEFORE DIGGING. GOPHER STATE ONE
CALL 1-800-252-1166.
REQUIRED BY LAW

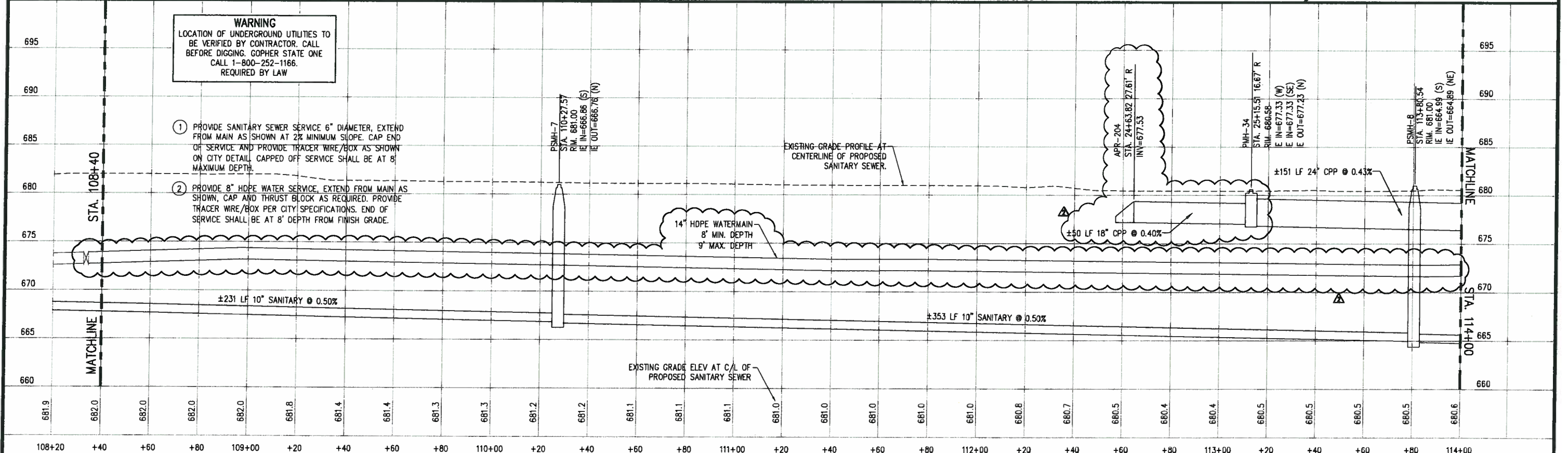
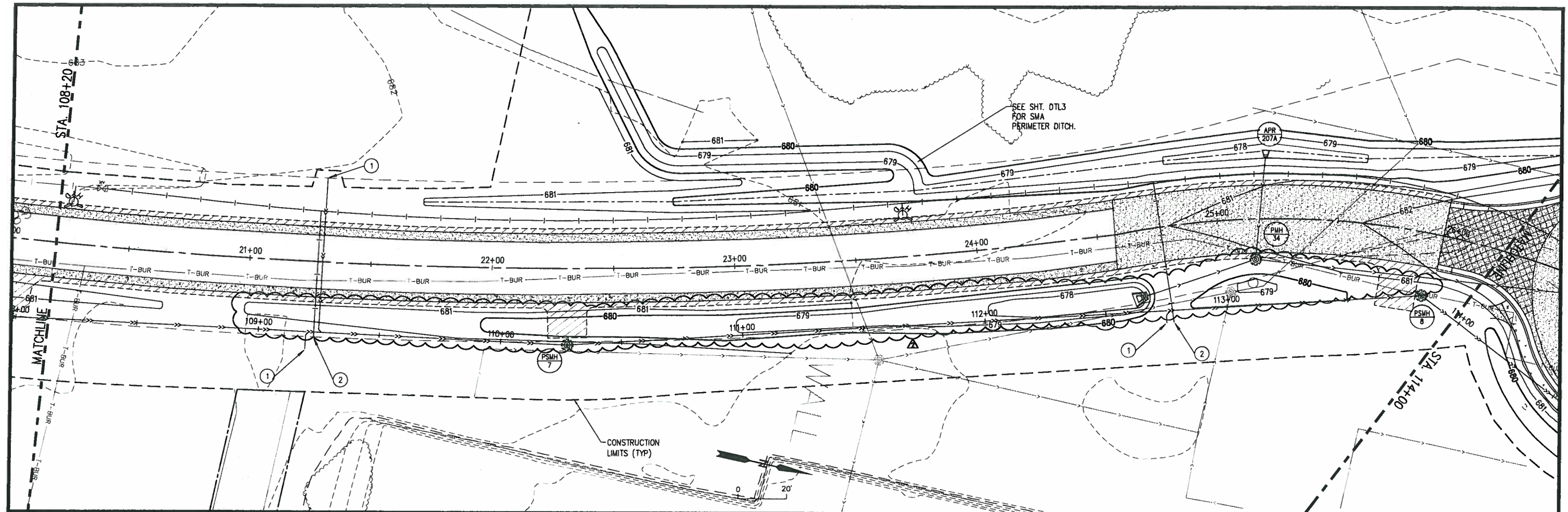
① PROVIDE SANITARY SEWER SERVICE 6" DIAMETER,
EXTEND FROM MAIN AS SHOWN AT 2% MINIMUM
SLOPE. CAP END OF SERVICE AND PROVIDE TRACER
WIRE/BOX AS SHOWN ON CITY DETAIL. CAPPED OFF
SERVICE SHALL BE AT 8" MAXIMUM DEPTH.

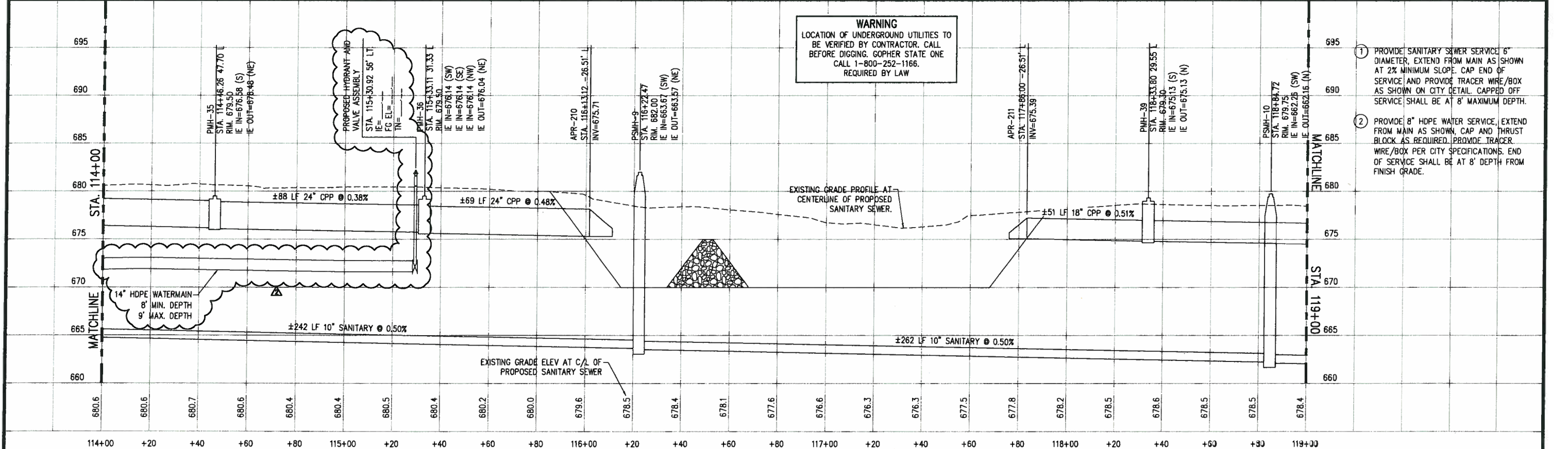
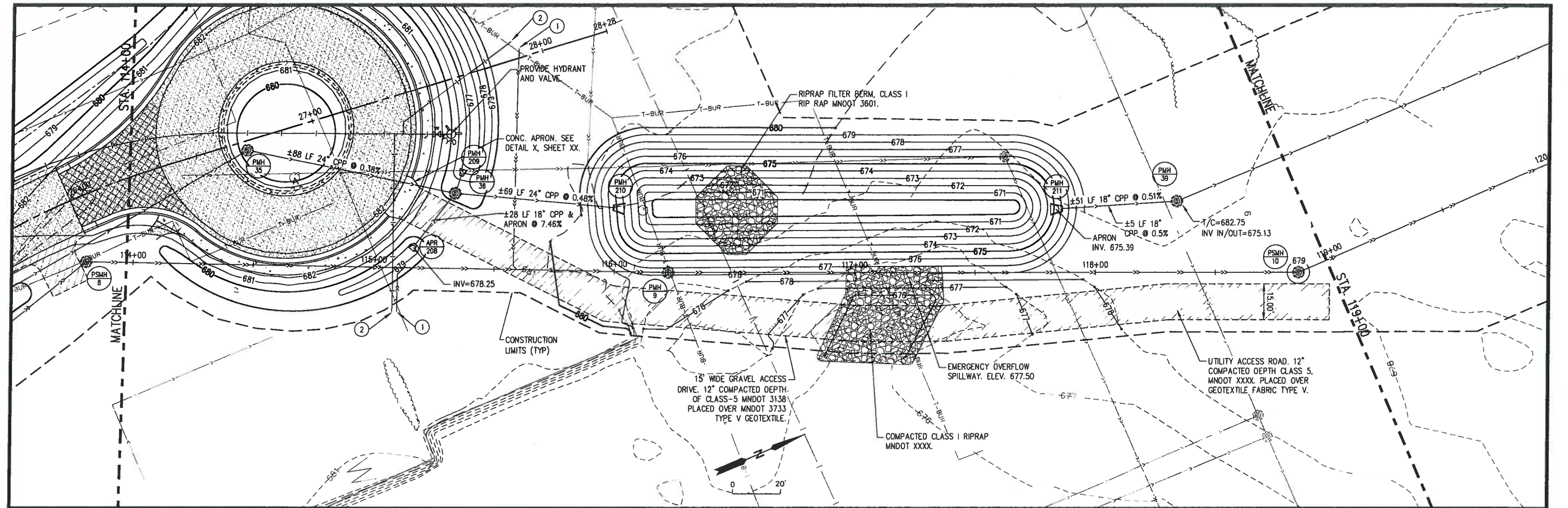


CERTIFIED BY: _____ DATE _____
LICENSED PROFESSIONAL ENGINEER
NAME: THOMAS A. JOHNSON LIC. NO. 46744

ATLAS SITE IMPROVEMENTS
DULUTH PROJ No. 0959 ST

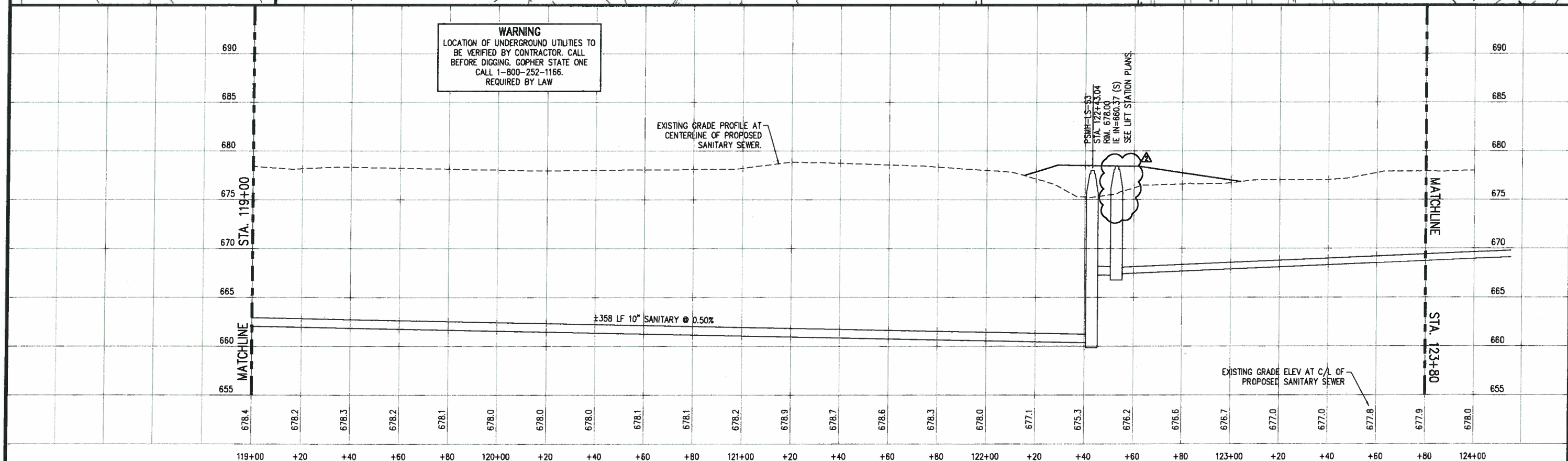
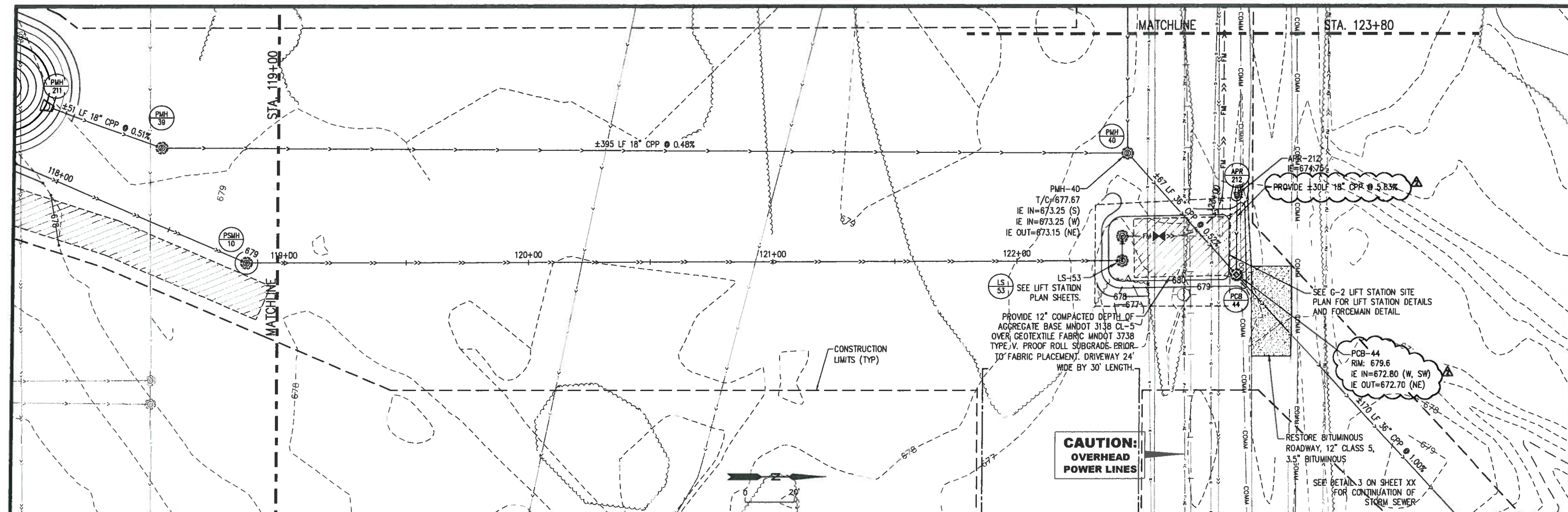
PLAN & PROFILE - SANITARY SEWER
SHEET No. PP01



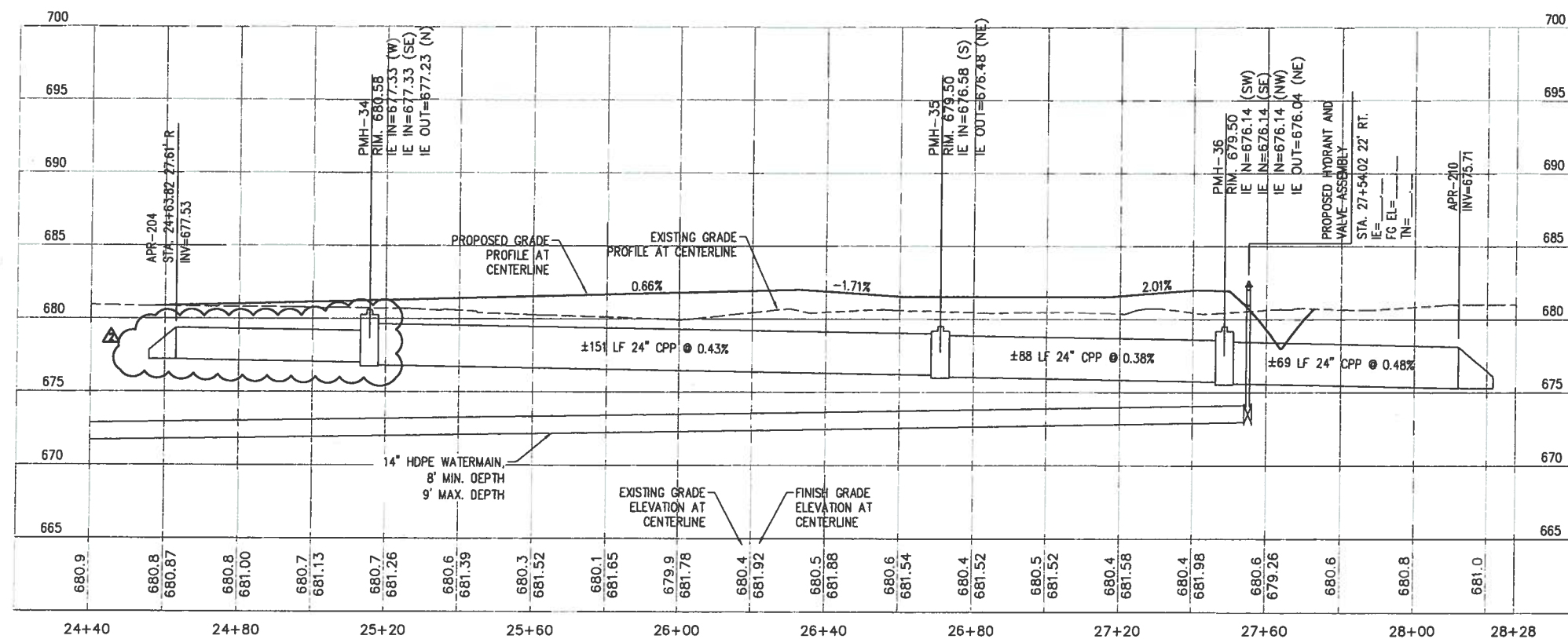
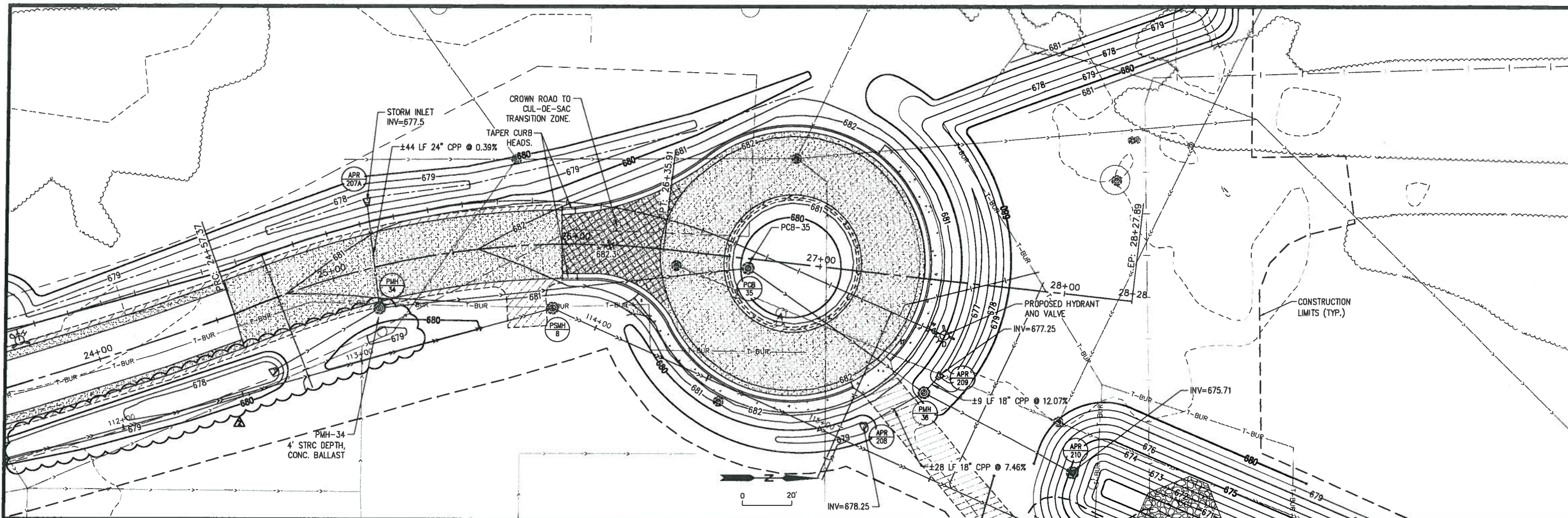


WARNING
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 CALL 1-800-252-1166.
 REQUIRED BY LAW

1. PROVIDE SANITARY SEWER SERVICE 6" DIAMETER, EXTEND FROM MAIN AS SHOWN AT 2% MINIMUM SLOPE. CAP END OF SERVICE AND PROVIDE TRACER WIRE/BOX AS SHOWN ON CITY DETAIL. CAPPED OFF SERVICE SHALL BE AT 8' MAXIMUM DEPTH.
2. PROVIDE 8" HDPE WATER SERVICE, EXTEND FROM MAIN AS SHOWN, CAP AND THRUST BLOCK AS REQUIRED. PROVIDE TRACER WIRE/BOX PER CITY SPECIFICATIONS. END OF SERVICE SHALL BE AT 8' DEPTH FROM FINISH GRADE.



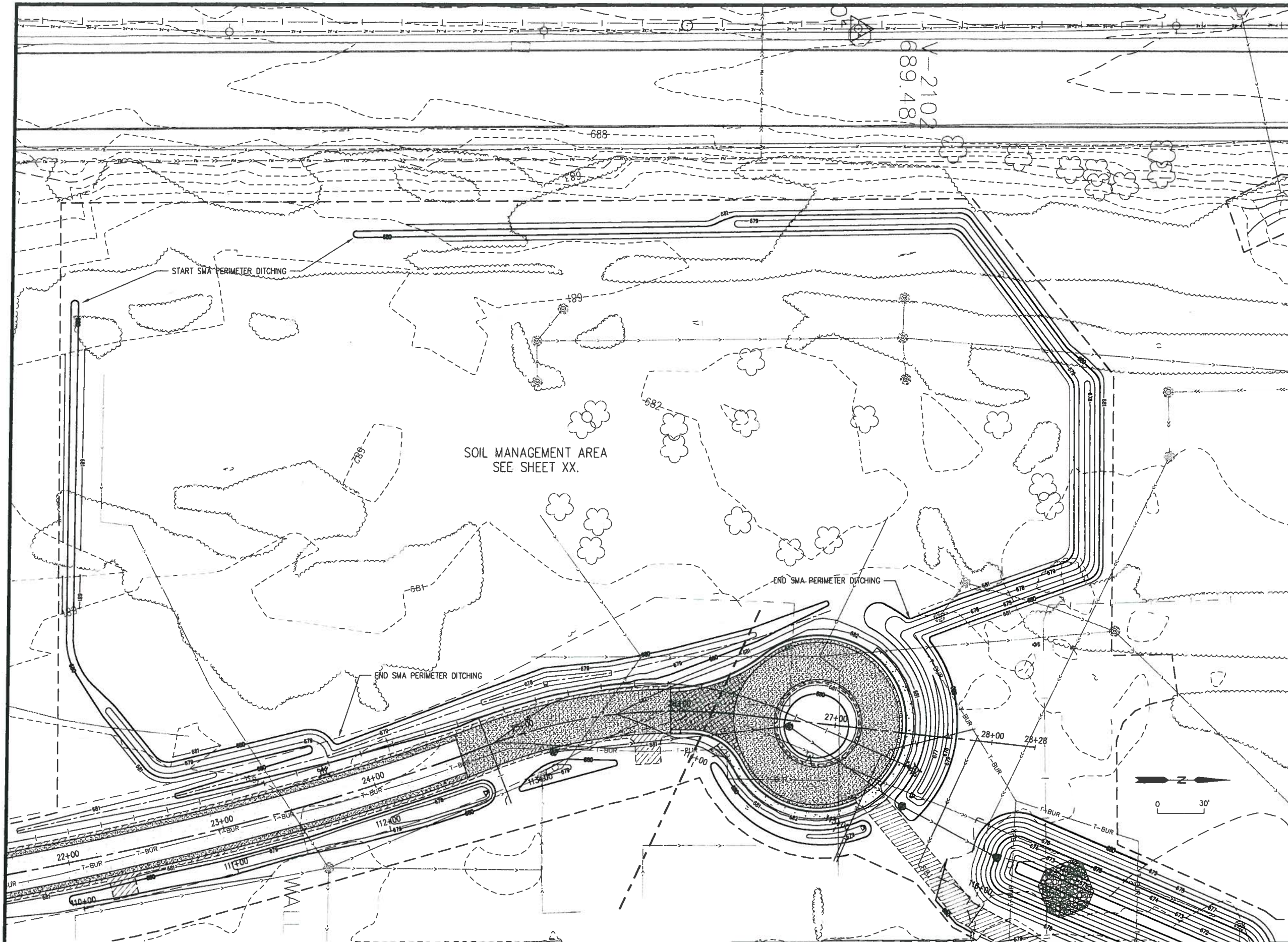
CERTIFIED BY: _____		DATE _____		ATLAS SITE IMPROVEMENTS		PLAN & PROFILE - SANITARY SEWER	
LICENSED PROFESSIONAL ENGINEER		DATE _____					
NAME: THOMAS A. JOHNSON		LIC. NO. 46744		DULUTH PROJ No. 0959 ST		SHEET No. PP05	

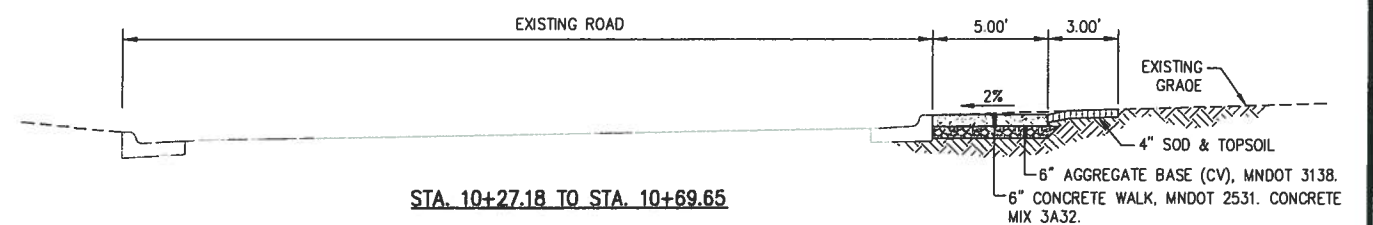
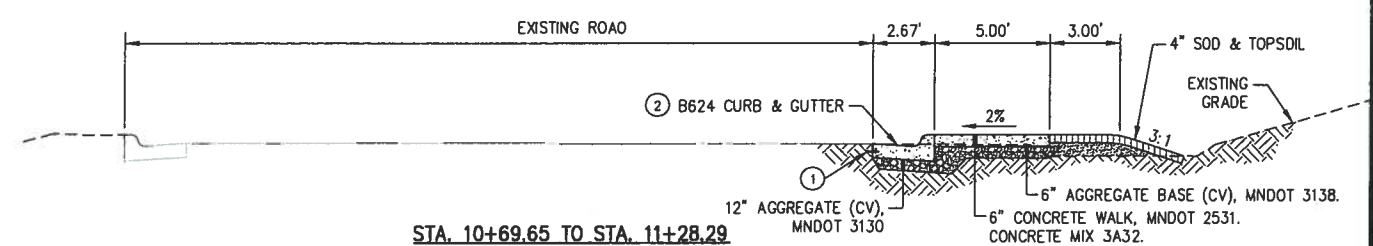
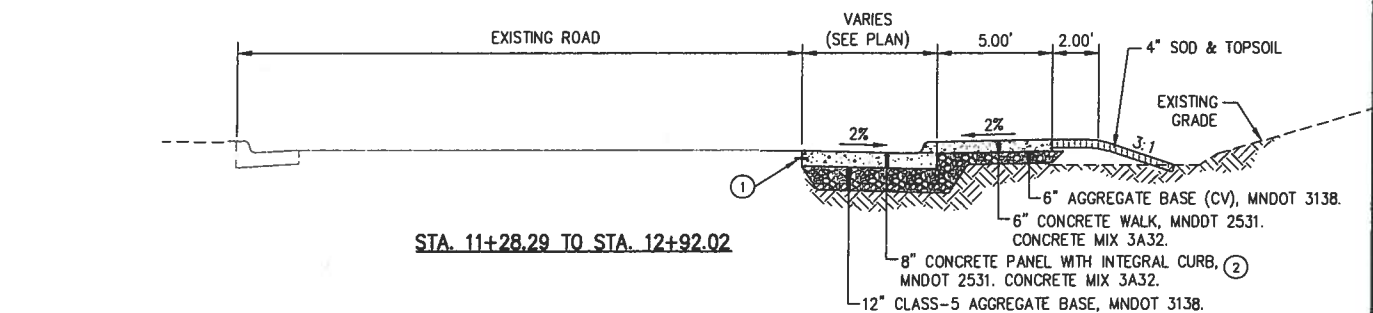
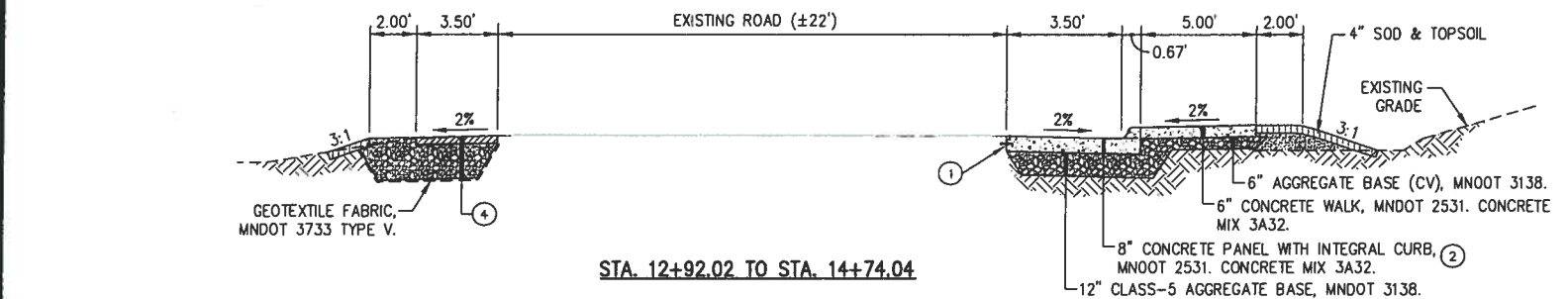
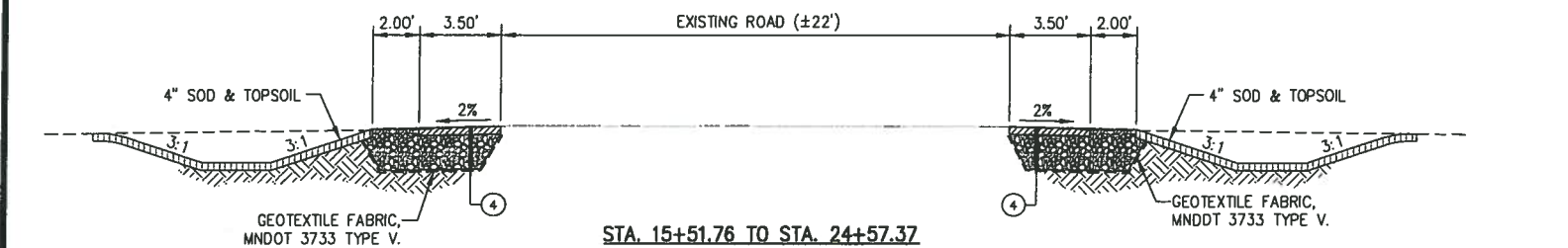
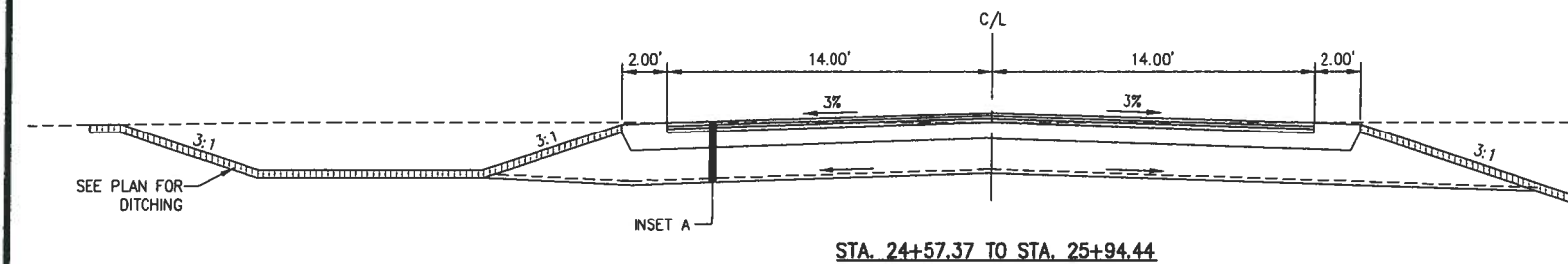
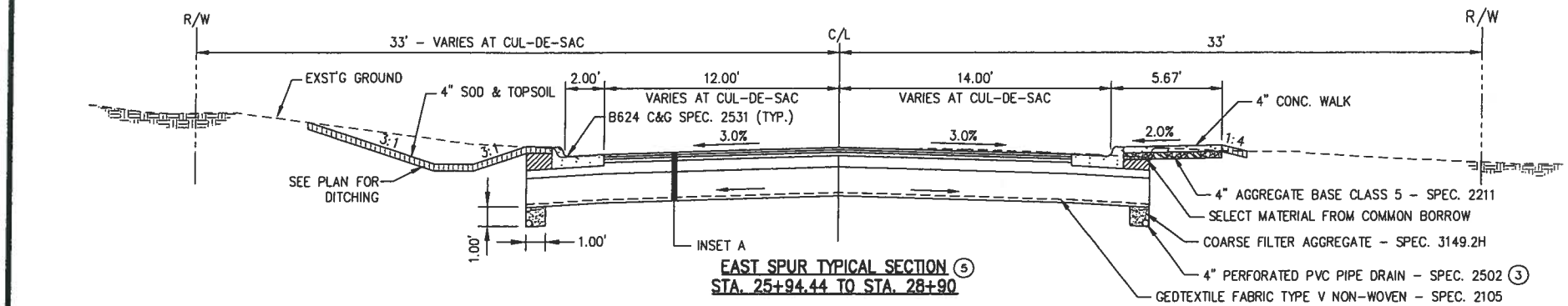


CERTIFIED BY: _____ DATE _____
 LICENSED PROFESSIONAL ENGINEER
 NAME: THOMAS A. JOHNSON LIC. NO. 46744

ATLAS SITE IMPROVEMENTS
 DULUTH PROJ No. 0959 ST

PLAN & PROFILE - NORTH CUL-DE-SAC
 SHEET No. PP09





KEYED NOTES:

- 1 EXPOXY COATED DOWEL BARS DRILLED 10" INTO EXISTING CONCRETE PAVEMENT, 3 DOWEL BARS PER CONCRETE PANEL.
- 2 PROVIDE JOINTING TO MATCH ADJACENT JOINTS OF EXISTING CONCRETE PAVEMENT.
- 3 CONNECT SUBDRAINS TO DOWNGRADE CATCH BASIN INLETS.
- 4 ROAD WIDENING - NICK GLUMAC DRIVE
 - 2" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C), PLACE TACK COAT BETWEEN BIT. COURSES - SPEC. 2357
 - 2" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C), PLACE TACK COAT BETWEEN BIT. COURSES - SPEC. 2357
 - 2" TYPE SP 12.5 NON-WEARING COURSE MIXTURE (SPNWB330C)
 - 18" CLASS-5 AGGREGATE BASE, MNDOT 2211
- 5 SEE PLAN/PROFILE VIEW FOR GRADES AND ROAD CROSS SLOPE, SUBGRADE SLOPE TO MATCH.

- 2" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C)
- PLACE TACK COAT BETWEEN BIT. COURSES - SPEC. 2357
- 2" TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C)
- PLACE TACK COAT BETWEEN BIT. COURSES - SPEC. 2357
- 2" TYPE SP 12.5 NON-WEARING COURSE MIXTURE (SPNWB330C)
- 12" AGGREGATE BASE (CV) CL 5 - SPEC. 2211
- 12" SELECT GRANULAR BORROW (CV) - SPEC. 2105 (MODIFIED 7%)

INSET A

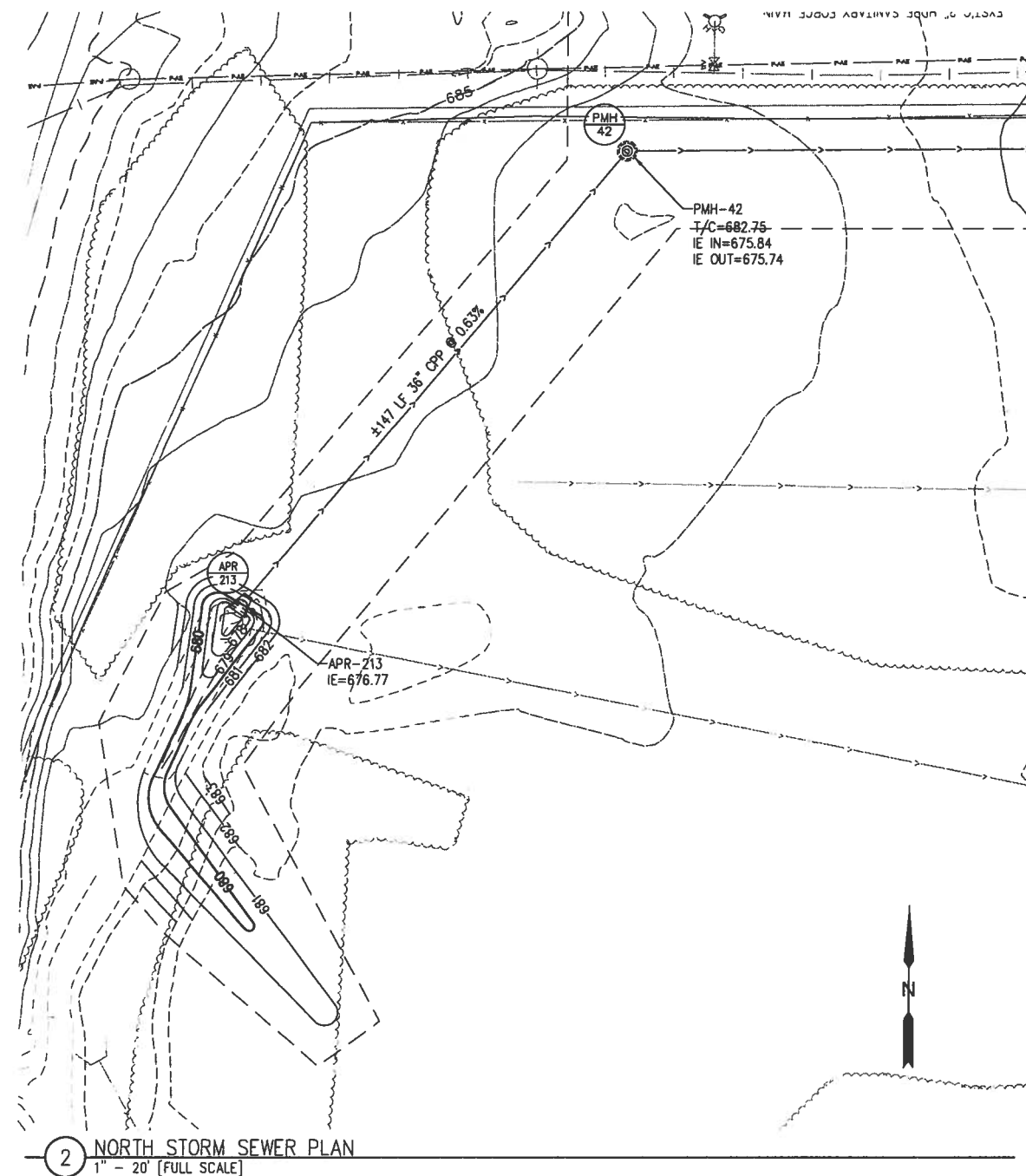
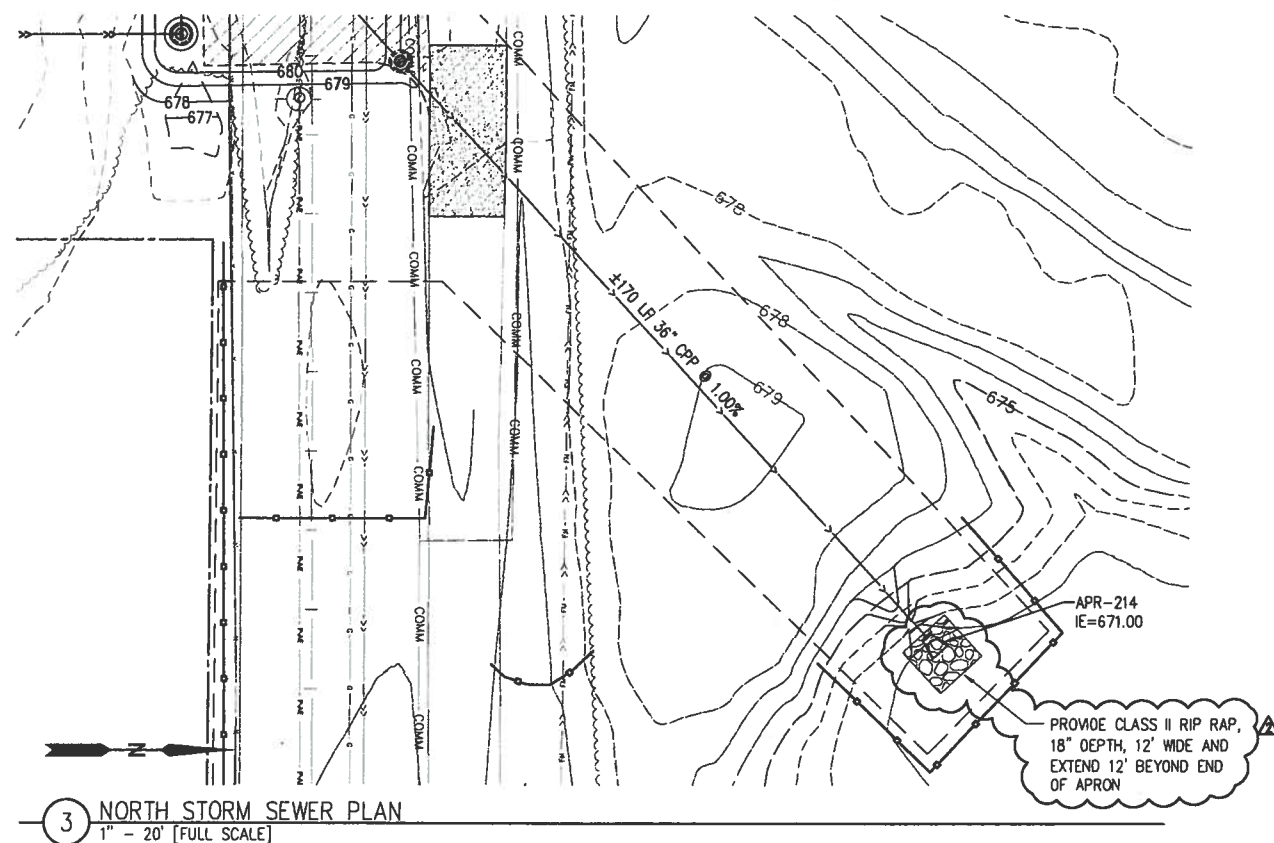
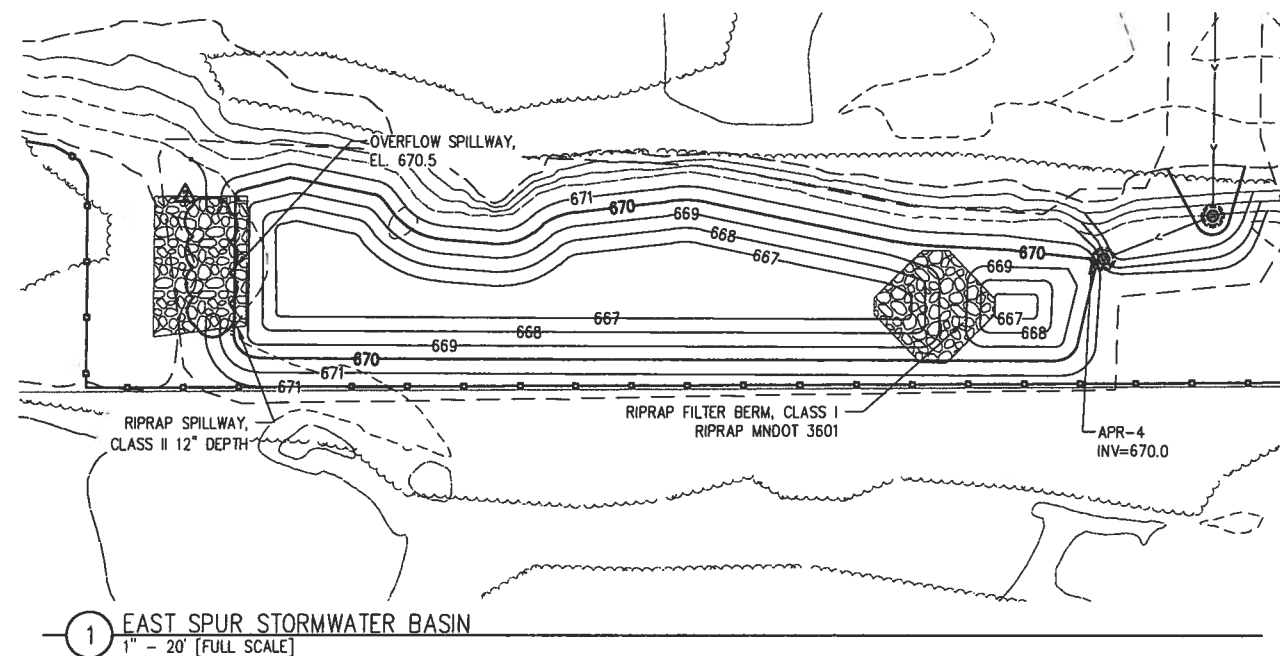
CERTIFIED BY: _____ DATE _____
 LICENSED PROFESSIONAL ENGINEER
 NAME: THOMAS A. JOHNSON LIC. NO. 46744

ATLAS SITE IMPROVEMENTS

DULUTH PROJ No. 0959 ST

TYPICAL SECTIONS

SHEET No. DTL4



CERTIFIED BY: _____ DATE _____ LICENSED PROFESSIONAL ENGINEER		ATLAS SITE IMPROVEMENTS		CONSTRUCTION DETAILS	
NAME: THOMAS A. JOHNSON LIC. NO. 46744		DULUTH PROJ No. 0959 ST		SHEET No. DTL5	