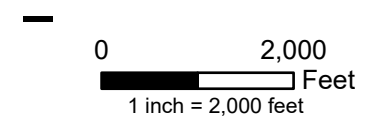
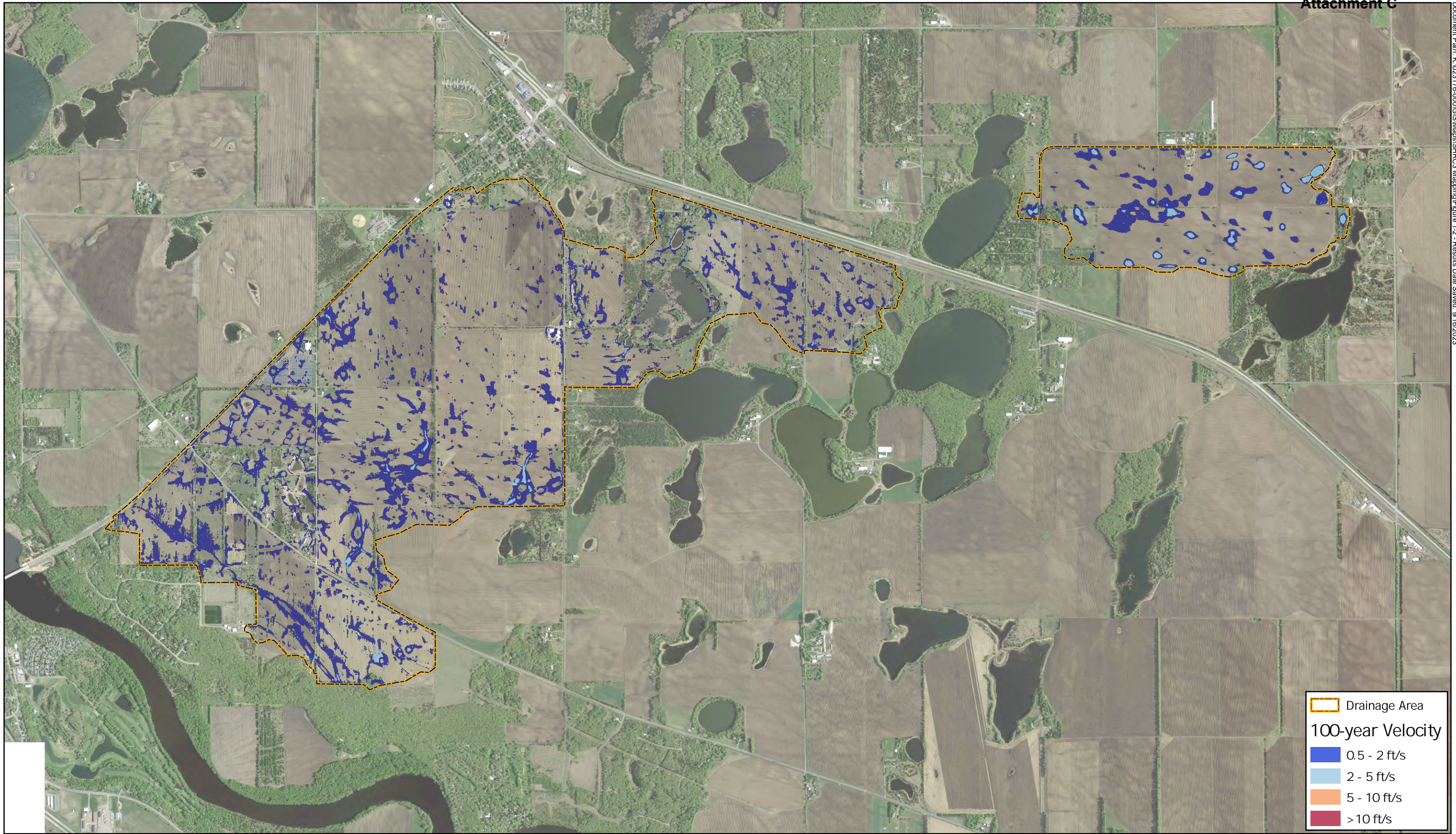


Figure 1: Sherco III Existing Conditions - Depth

Sherco III Solar Development
Blattner Energy





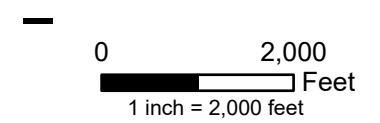
Drainage Area

100-year Velocity

- 0.5 - 2 ft/s
- 2 - 5 ft/s
- 5 - 10 ft/s
- > 10 ft/s

Figure 2: Sherco III Existing Conditions - Velocity

Sherco III Solar Development
Blattner Energy



HEC-RAS - River Analysis System

Project File: k:\023176-000\WR\HEC-RAS\Existing Conditions\SHRC3 Main Existing\SHRC3MainEx.prj

Project Name: SHRC3MainEx

Plan Name: Existing Run

Short ID: SHRC3 Existing Conditions - main

Starting Time: 31Dec2022 2400

Ending Time: 01Jan2023 1600

```
#####
#                                                                 #
#                                                                 #
#           1D and 2D Unsteady Flow Module                       #
#                                                                 #
#                                                                 #
#           HEC-RAS 6.0.0 May 2021                               #
#                                                                 #
#           18JUL23 at 08:59:46                                 #
#                                                                 #
#####
```

US Inflow	DS Outflow	Lat Hydro	SA Hydro	Groundwater
Diversions	Precip Excess	Precip Excess		
(Acre Feet)		(Inches)		
*****	*****	*****	*****	*****
*****	*****	*****		

0.00000

Start 1D Reach	Final 1D Reach	Starting SA's	Final SA's
*****	*****	*****	*****

*** Volume Accounting for 2D Flow Area in Acre Feet ***

2D Area Error	Starting Vol Percent Error	Ending Vol Precip Excess (Acre Feet)	Cum Inflow Precip Excess (incl. precip) (Inches)	Cum Outflow
*****	*****	*****	*****	*****
*****	*****	*****	*****	*****
Ex Study Area		318.8	380.6	70.44
8.590	2.257	380.6	2.442	

*** Total Volume Accounting (for the entire model) in Acre Feet

Total Boundary Flux of Water In	380.6
Total Boundary Flux of Water Out	70.44
Starting Volume	0.000000
Ending Volume	318.8
Precipitation Excess (Acre Feet)	380.6
Precipitation Excess (inches)	2.442

Error	Percent Error
*****	*****
8.590	2.257

HEC-RAS - River Analysis System

Project File: k:\023176-000\WR\HEC-RAS\Existing Conditions\SHRC3 NE Existing\SHRC3NEEx.prj

Project Name: SHRC3NEEx

Plan Name: SHRC3 Existing_NE

Short ID: SHRC3 Ex Conditions

Starting Time: 31Dec2022 2400

Ending Time: 01Jan2023 1600

```
#####
#                                                                 #
#                                                                 #
#           1D and 2D Unsteady Flow Module                       #
#                                                                 #
#                                                                 #
#           HEC-RAS 6.4.1 June 2023                             #
#                                                                 #
#           12SEP23 at 09:10:43                                 #
#                                                                 #
#####
```

US Inflow	DS Outflow	Lat Hydro	SA Hydro	Groundwater
Diversions	Precip Excess	Precip Excess		
(Acre Feet)		(Inches)		
*****	*****	*****	*****	*****
*****	*****	*****		

0.00000

Start 1D Reach	Final 1D Reach	Starting SA's	Final SA's
*****	*****	*****	*****

*** Volume Accounting for 2D Flow Area in Acre Feet ***

2D Area Error	Starting Vol Percent Error	Ending Vol Precip Excess (Acre Feet)	Cum Inflow Precip Excess (incl. precip) (Inches)	Cum Outflow
*****	*****	*****	*****	*****
*****	*****	*****	*****	*****
Ex Study Area		75.14	81.51	11.77
5.392	6.615	81.51	2.472	

*** Total Volume Accounting (for the entire model) in Acre Feet

Total Boundary Flux of Water In	81.51
Total Boundary Flux of Water Out	11.77
Starting Volume	0.000000
Ending Volume	75.14
Precipitation Excess (Acre Feet)	81.51
Precipitation Excess (inches)	2.472

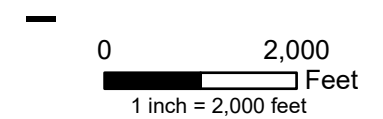
Error	Percent Error
*****	*****
5.392	6.615

Appendix 6: Proposed Conditions Hydrologic Calculations



Figure 1: Sherco III Proposed Curve Numbers

Sherco III Solar Development
Blattner Energy



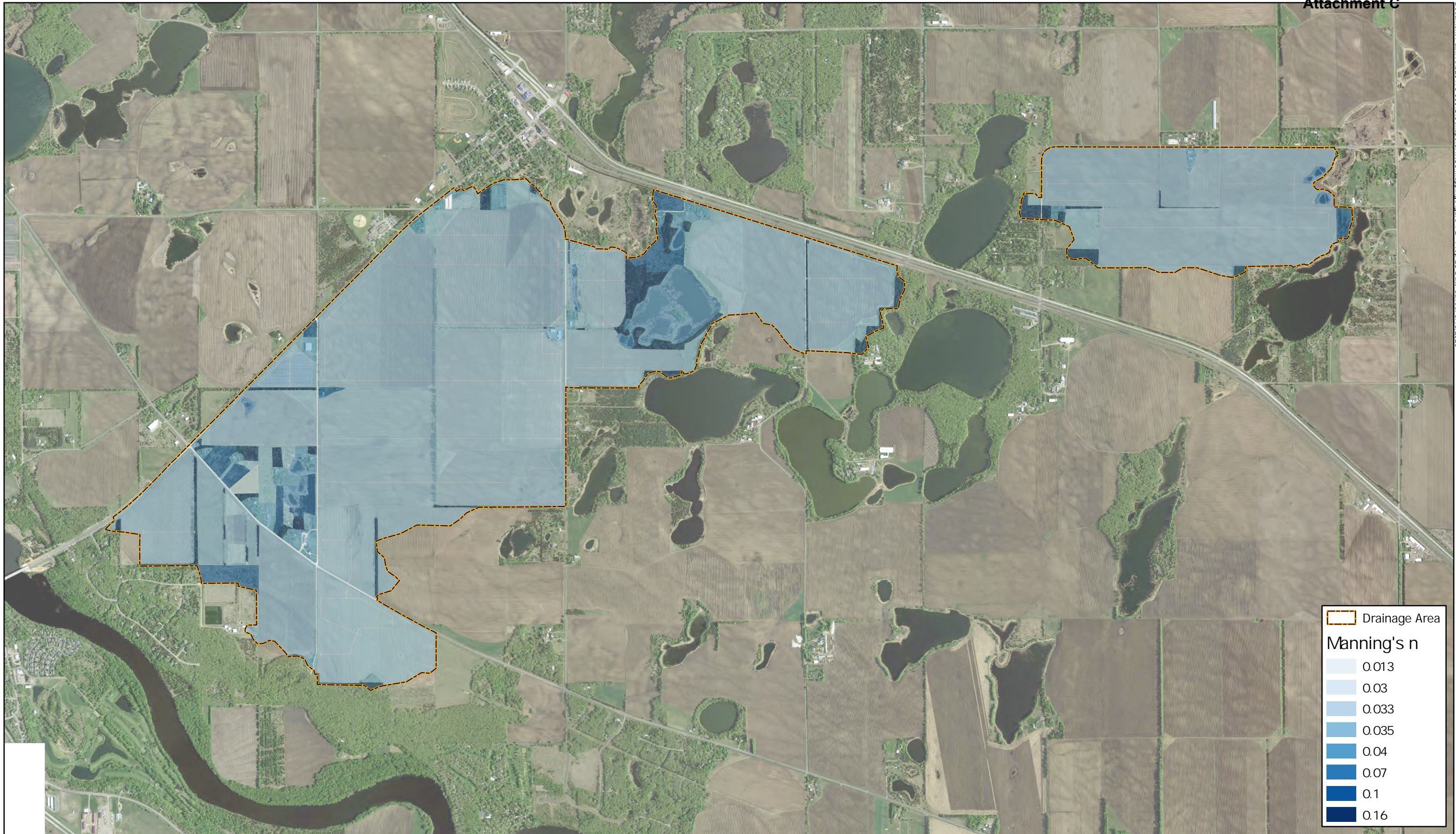
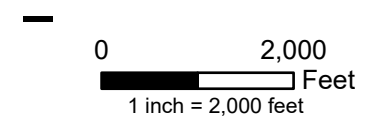


Figure 2: Sherco III Proposed Manning's n Values

Sherco III Solar Development
Blattner Energy



SCS CN Runoff Value Calculations

Used for HEC-HMS Calculations

CN values from Table 2-2a to 2-2c of TR-55 manual



Date: 9/15/2023

By: Henry Meeker

Sherco III - Main

Cover Type	NLCD Code	Area (ac)	CN	% of Total	Area Weighted CN
Open Water	11	50.338	100	2.7%	2.69
Developed, Open Space	21	58.465	30	3.1%	0.94
Deciduous Forest	41	69.911	45	3.7%	1.68
Evergreen Forest	42	2.400	40	0.1%	0.05
Shrub/Scrub	52	57.149	35	3.1%	1.07
Grassland/Herbaceous	71	117.585	30	6.3%	1.89
Pasture/Hay	81	5.658	39	0.3%	0.12
Cultivated Crops	82	329.119	67	17.6%	11.79
Emergent Herbaceous Wetlands	95	19.060	84	1.0%	0.86
Impervious Roadway	N/A	24.180	100	1.3%	1.29
Proposed Roadway	N/A	23.925	100	1.3%	1.28
Proposed Panel Area	N/A	1112.805	30	59.5%	17.85
Total:		1870.595	Composite CN:		41.2

Sherco III - NE

Cover Type	NLCD Code	Area (ac)	CN	% of Total	Area Weighted CN
Developed, Open Space	21	4.162	30	0.2%	0.32
Deciduous Forest	41	13.148	45	0.7%	1.50
Shrub/Scrub	52	5.803	35	0.3%	0.51
Grassland/Herbaceous	71	23.484	30	1.3%	1.78
Cultivated Crops	82	72.205	67	3.9%	12.23
Emergent Herbaceous Wetlands	95	4.293	84	0.2%	0.91
Impervious Roadway	N/A	2.760	100	0.1%	0.70
Proposed Roadway	N/A	6.283	100	0.3%	1.59
Proposed Panel Areas	N/A	263.468	30	14.1%	19.98
Total:		389.800	Composite CN:		39.5

HEC-HMS Basin Input Summary

Used for HEC-HMS Calculations

Date: 9/15/2023

By: Henry Meeker



Site Condition:	Sherco III - Main
------------------------	-------------------

Area (mi²):	2.923
Discretization Method:	None
Canopy Method:	None
Snow Method:	None
Surface Method:	None
Loss Method:	SCS Curve Number
Transform Method:	SCS Unit Hydrograph
Baseflow Method:	None

Initial Abstraction:	0
Curve Number:	41.2
Impervious (%):	5.26

Graph Type:	Standard (PRF 484)
Lag Time (min):	234

Frequency Storm	
Duration	Depth (in)
5 minutes	0.951
15 minutes	1.7
1 hour	3.14
2 hours	3.93
3 hours	4.47
6 hours	5.28
12 hours	5.89
1 day	6.53

Site Condition:	Sherco III - NE
------------------------	-----------------

Area (mi²):	0.609
Discretization Method:	None
Canopy Method:	None
Snow Method:	None
Surface Method:	None
Loss Method:	SCS Curve Number
Transform Method:	SCS Unit Hydrograph
Baseflow Method:	None

Initial Abstraction:	0
Curve Number:	39.5
Impervious (%):	2.29

Graph Type:	Standard (PRF 484)
Lag Time (min):	103

Frequency Storm	
Duration	Depth (in)
5 minutes	0.951
15 minutes	1.7
1 hour	3.14
2 hours	3.93
3 hours	4.47
6 hours	5.28
12 hours	5.89
1 day	6.53

Appendix 7: Proposed Conditions Hydraulic Figures & Calculations

LWX Design Criteria

Used for reinforcement material



Date: 3/27/2024

By: Henry Meeker

LWX needs reinforcement if shear stress is above 0.4 lb/sf

Permissible Shear Stress for Various Linings per HEC-15 Table 2.3			HEC-15 Table 2.1 & 2.2
	Protective Cover	lbs./sq.ft.	n value
Std A	Gravel, D50=1"	0.4	0.033
LWX-L1	Rock, D50=6"	2.4	0.025
	Rock, D50=12"	4.8	0.035
LWX-L3	Soil Cement (8% cement)	>45	0.022
LWX-L2	Grouted Riprap	>45	0.03

$$\tau_d = \gamma d S_o$$

Equation 2.6
From FHWA HEC-15, 3rd Ed.

- τ_d Shear stress (lb/sf)
 γ Unit weight of water, 62.4 lb/cf
 d Max flow depth (ft)
 S_o Energy slope (ft/ft)

LWX ID	Water Unit Weight (lb/cf)	S0 (ft/ft)	Max Depth (ft)	Shear (lb/sf)	Velocity (ft/s)	Reinforcement Length (ft)
LWX-1L4	62.4	0.1	0.14	0.874	2.05	120
LWX-1L5	62.4	0.05	0.26	0.811	2.09	190
LWX-1L8	62.4	0.023	0.31	0.445	1.26	92
LWX-3L1-N	62.4	0.025	0.44	0.686	1.57	80

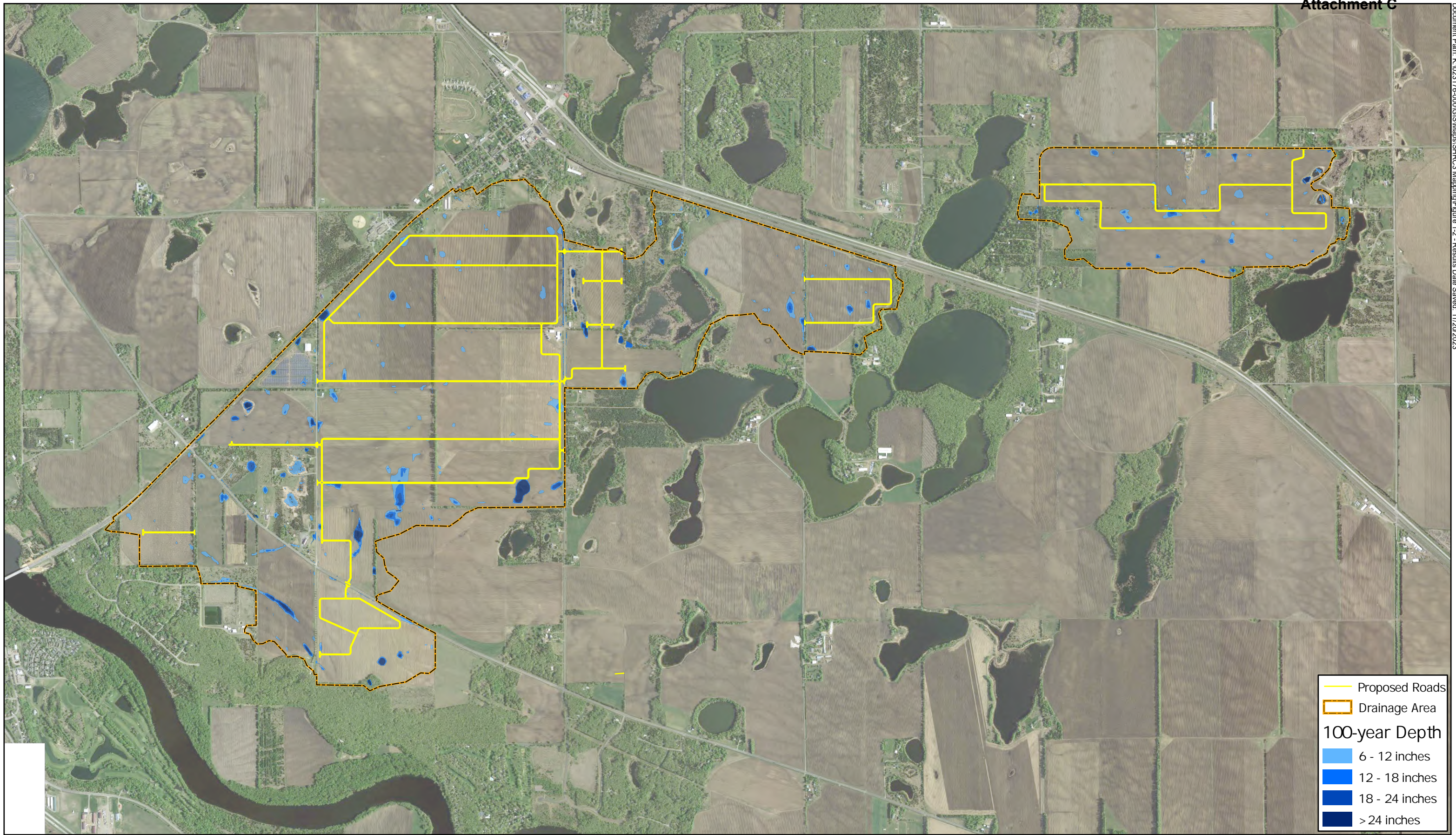
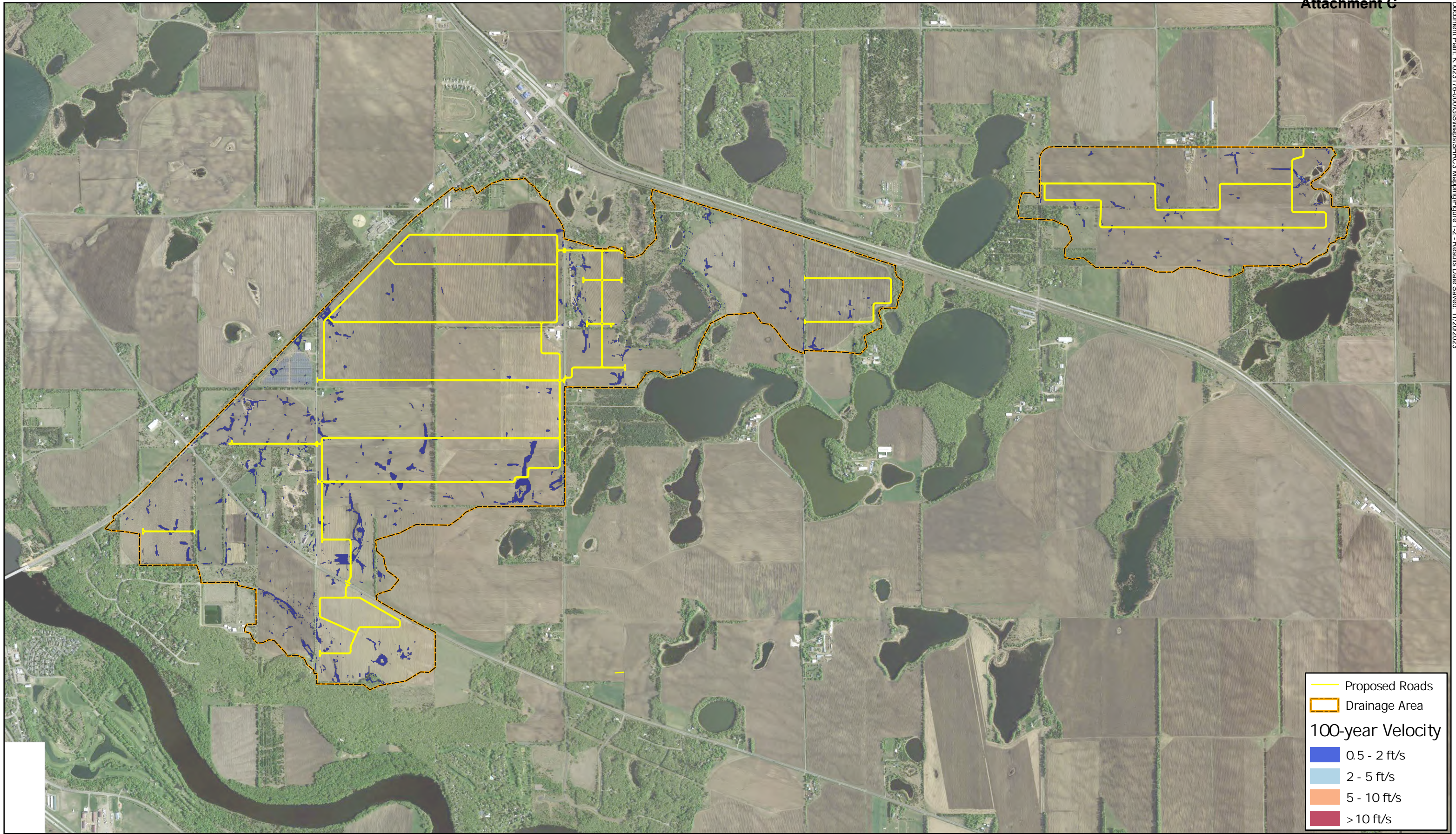


Figure 1: Sherco III Proposed Conditions - Depth

Sherco III Solar Development
Blattner Energy

0 2,000 Feet
1 inch = 2,000 feet

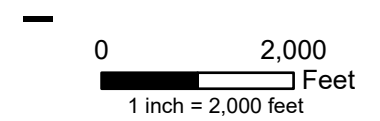




— Proposed Roads
 Drainage Area
100-year Velocity
■ 0.5 - 2 ft/s
■ 2 - 5 ft/s
■ 5 - 10 ft/s
■ > 10 ft/s

Figure 2: Sherco III Proposed Conditions - Velocity

Sherco III Solar Development
Blattner Energy



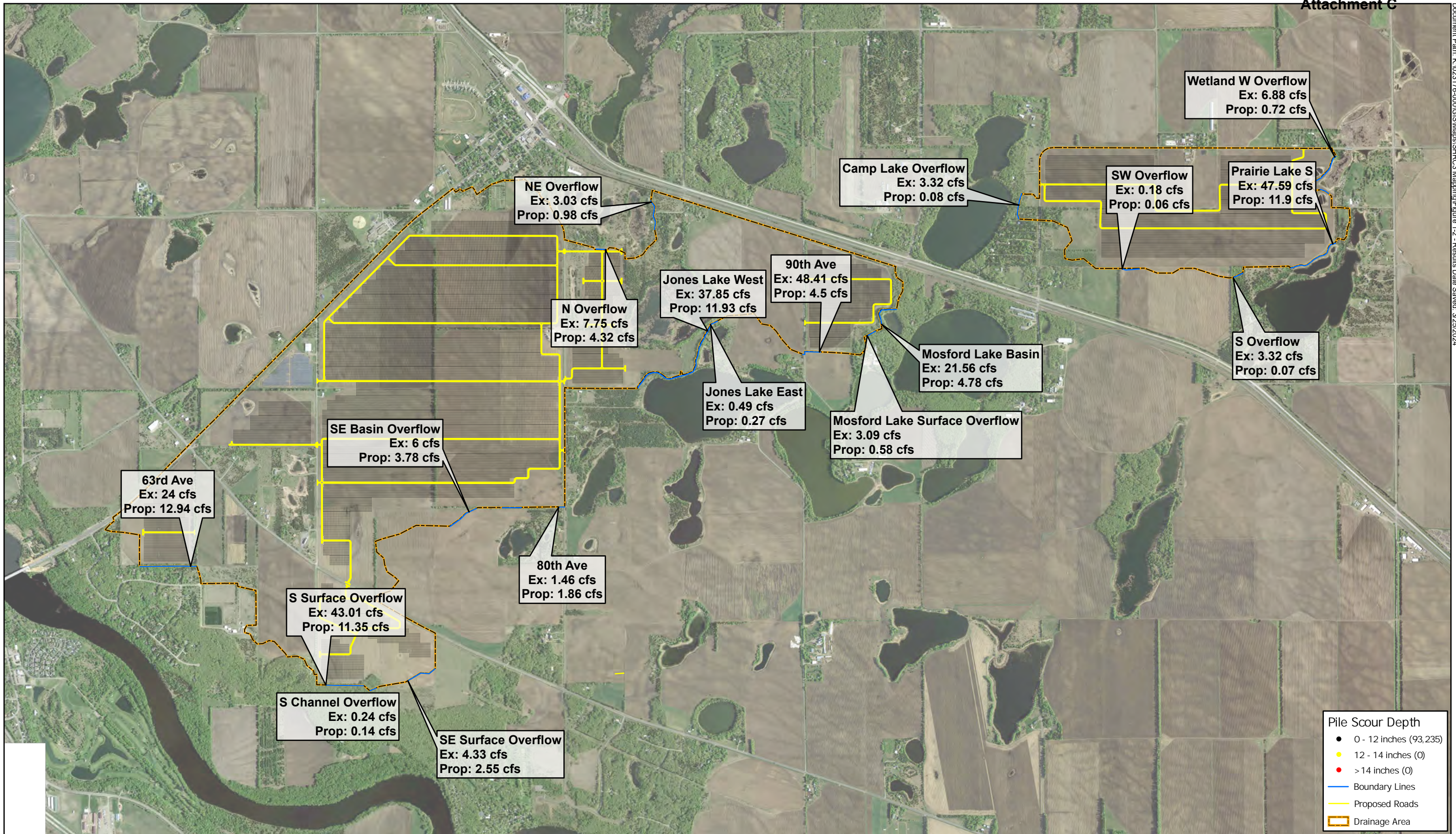
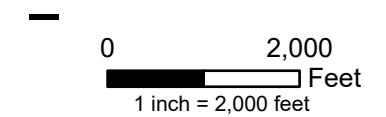


Figure 3: Sherco III Proposed Conditions - Scour

Sherco III Solar Development
Blattner Energy



HEC-RAS - River Analysis System

Project File: k:\023176-000\WR\HEC-RAS\90% Proposed Conditions\SHRC3 Main
90%\SHRC3Main90p.prj

Project Name: SHRC3Main90p

Plan Name: Proposed 90p Run

Short ID: Proposed 90p

Starting Time: 31Dec2022 2400

Ending Time: 01Jan2023 1600

```
#####
#
#
#      1D and 2D Unsteady Flow Module
#
#
#      HEC-RAS 6.4.1 June 2023
#
#      06MAR24 at 15:23:34
#
#####
```

US Inflow	DS Outflow	Lat Hydro	SA Hydro	Groundwater
Diversions	Precip Excess	Precip Excess		

(Acre Feet)	(Inches)		
-------------	----------	--	--

*****	*****	*****	*****	*****
*****	*****	*****		

0.00000

Start 1D Reach	Final 1D Reach	Starting SA's	Final SA's
*****	*****	*****	*****

*** Volume Accounting for 2D Flow Area in Acre Feet ***

2D Area Error	Starting Vol Percent Error	Ending Vol Precip Excess (Acre Feet)	Cum Inflow Precip Excess (incl. precip) (Inches)	Cum Outflow
*****	*****	*****	*****	*****
*****	*****	*****	*****	*****
Ex Study Area		112.0	121.6	10.52
0.9384	0.7716	121.6	0.7802	

*** Total Volume Accounting (for the entire model) in Acre Feet

Total Boundary Flux of Water In	121.6
Total Boundary Flux of Water Out	10.52
Starting Volume	0.000000
Ending Volume	112.0
Precipitation Excess (Acre Feet)	121.6
Precipitation Excess (inches)	0.7802

Error	Percent Error
*****	*****
0.9384	0.7716

HEC-RAS - River Analysis System

Project File: k:\023176-000\WR\HEC-RAS\90% Proposed Conditions\SHRC3 NE
90%\SHRC3NE90p.prj

Project Name: SHRC3NE90p

Plan Name: SHRC3 90p_NE

Short ID: SHRC3 90p NE

Starting Time: 31Dec2022 2400

Ending Time: 01Jan2023 1600

```
#####  
# #  
# #  
# 1D and 2D Unsteady Flow Module #  
# #  
# #  
# HEC-RAS 6.4.1 June 2023 #  
# #  
# 04MAR24 at 11:32:45 #  
# #  
#####
```

US Inflow Diversions	DS Outflow Precip Excess	Lat Hydro Precip Excess	SA Hydro	Groundwater
-------------------------	-----------------------------	----------------------------	----------	-------------

(Acre Feet) (Inches)

0.00000

Start 1D Reach	Final 1D Reach	Starting SA's	Final SA's
----------------	----------------	---------------	------------

*** Volume Accounting for 2D Flow Area in Acre Feet ***

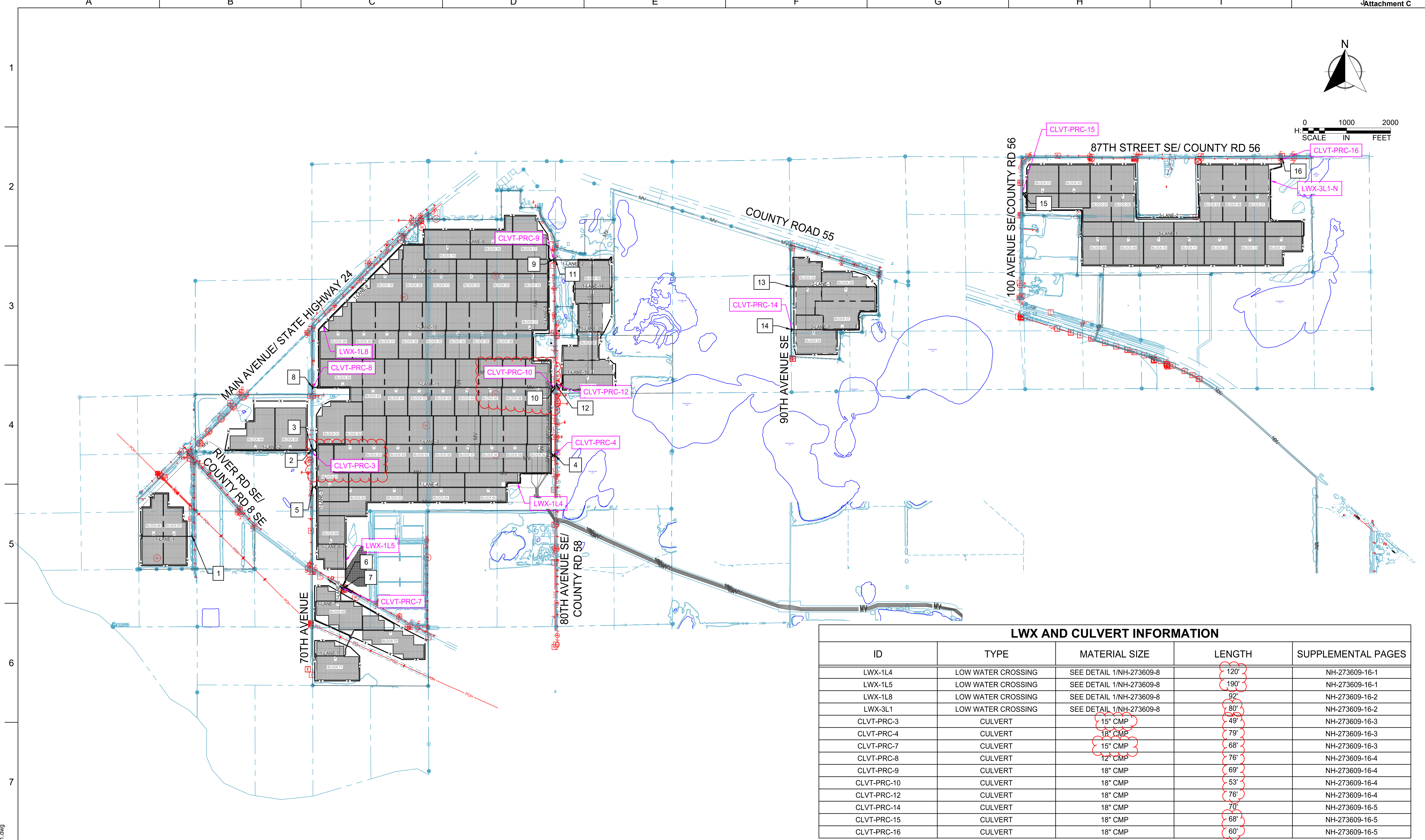
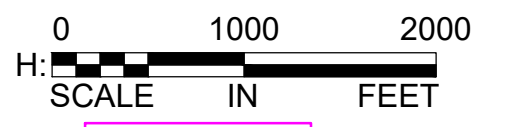
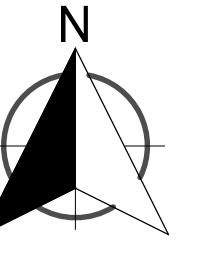
2D Area Error	Starting Vol Percent Error	Ending Vol Precip Excess (Acre Feet)	Cum Inflow Precip Excess (incl. precip) (Inches)	Cum Outflow
*****	*****	*****	*****	*****
*****	*****	*****	*****	*****
Prop Study Area 0.7457	4.037	17.73 18.47	18.47 0.5601	1.486

*** Total Volume Accounting (for the entire model) in Acre Feet

Total Boundary Flux of Water In	18.47
Total Boundary Flux of Water Out	1.486
Starting Volume	0.000000
Ending Volume	17.73
Precipitation Excess (Acre Feet)	18.47
Precipitation Excess (inches)	0.5601

Error	Percent Error
*****	*****
0.7457	4.037

Appendix 8: LWX and Culvert Profile Plan Sheets

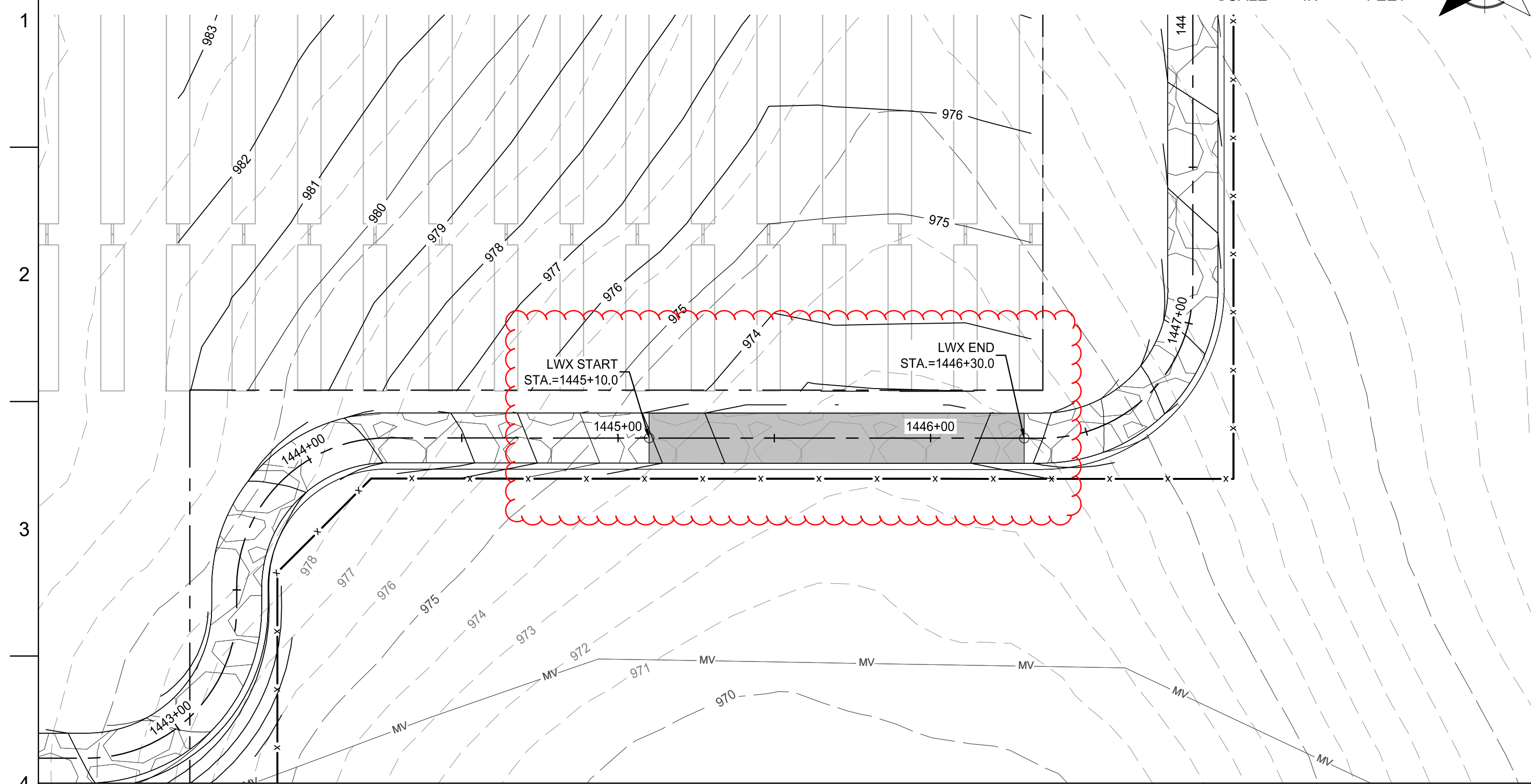
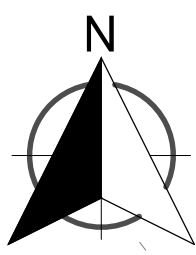
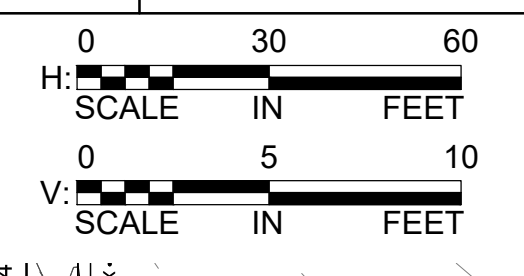


LWX AND CULVERT INFORMATION				
ID	TYPE	MATERIAL SIZE	LENGTH	SUPPLEMENTAL PAGES
LWX-1L4	LOW WATER CROSSING	SEE DETAIL 1/NH-273609-8	120'	NH-273609-16-1
LWX-1L5	LOW WATER CROSSING	SEE DETAIL 1/NH-273609-8	190'	NH-273609-16-1
LWX-1L8	LOW WATER CROSSING	SEE DETAIL 1/NH-273609-8	92'	NH-273609-16-2
LWX-3L1	LOW WATER CROSSING	SEE DETAIL 1/NH-273609-8	80'	NH-273609-16-2
CLVT-PRC-3	CULVERT	15" CMP	49'	NH-273609-16-3
CLVT-PRC-4	CULVERT	18" CMP	79'	NH-273609-16-3
CLVT-PRC-7	CULVERT	15" CMP	68'	NH-273609-16-3
CLVT-PRC-8	CULVERT	12" CMP	76'	NH-273609-16-4
CLVT-PRC-9	CULVERT	18" CMP	69'	NH-273609-16-4
CLVT-PRC-10	CULVERT	18" CMP	53'	NH-273609-16-4
CLVT-PRC-12	CULVERT	18" CMP	76'	NH-273609-16-4
CLVT-PRC-14	CULVERT	18" CMP	70'	NH-273609-16-5
CLVT-PRC-15	CULVERT	18" CMP	68'	NH-273609-16-5
CLVT-PRC-16	CULVERT	18" CMP	60'	NH-273609-16-5

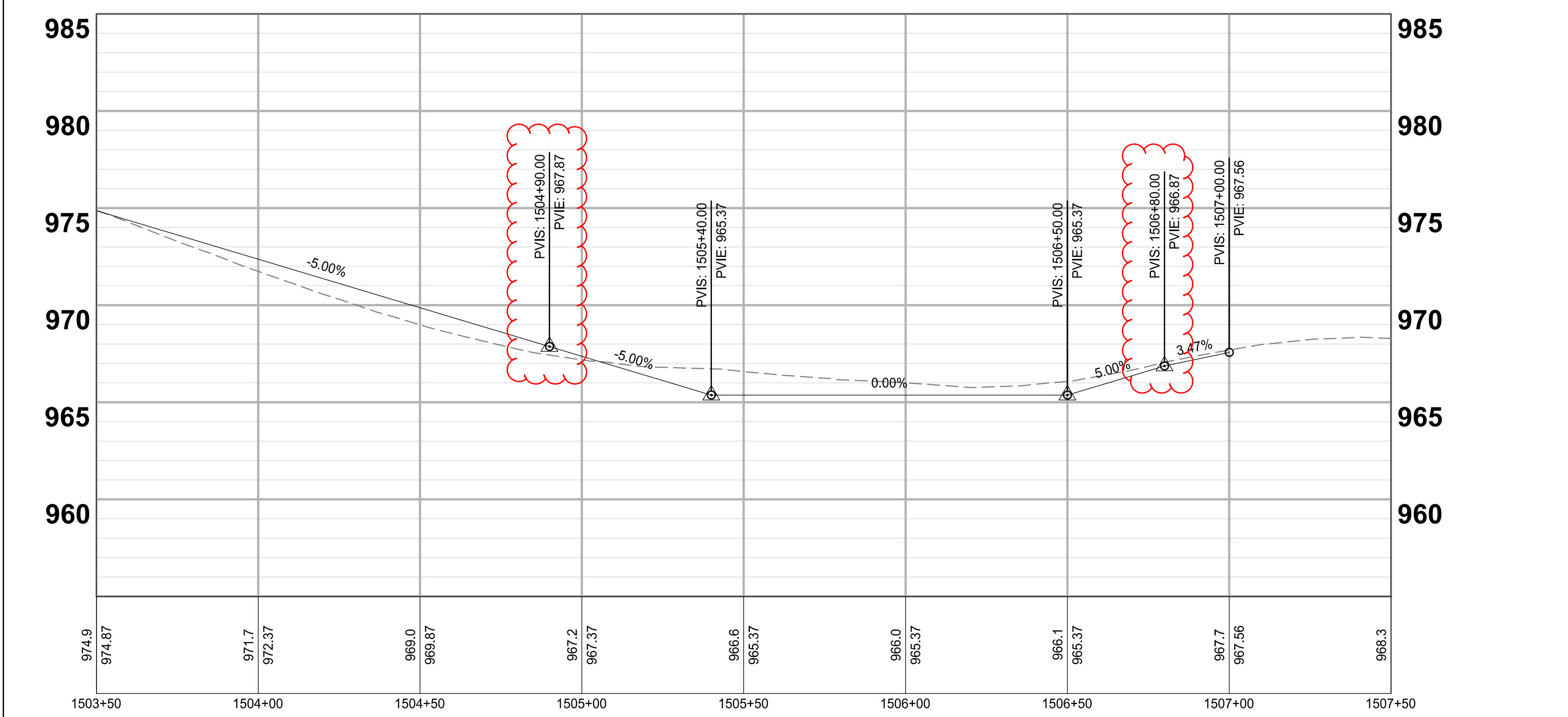
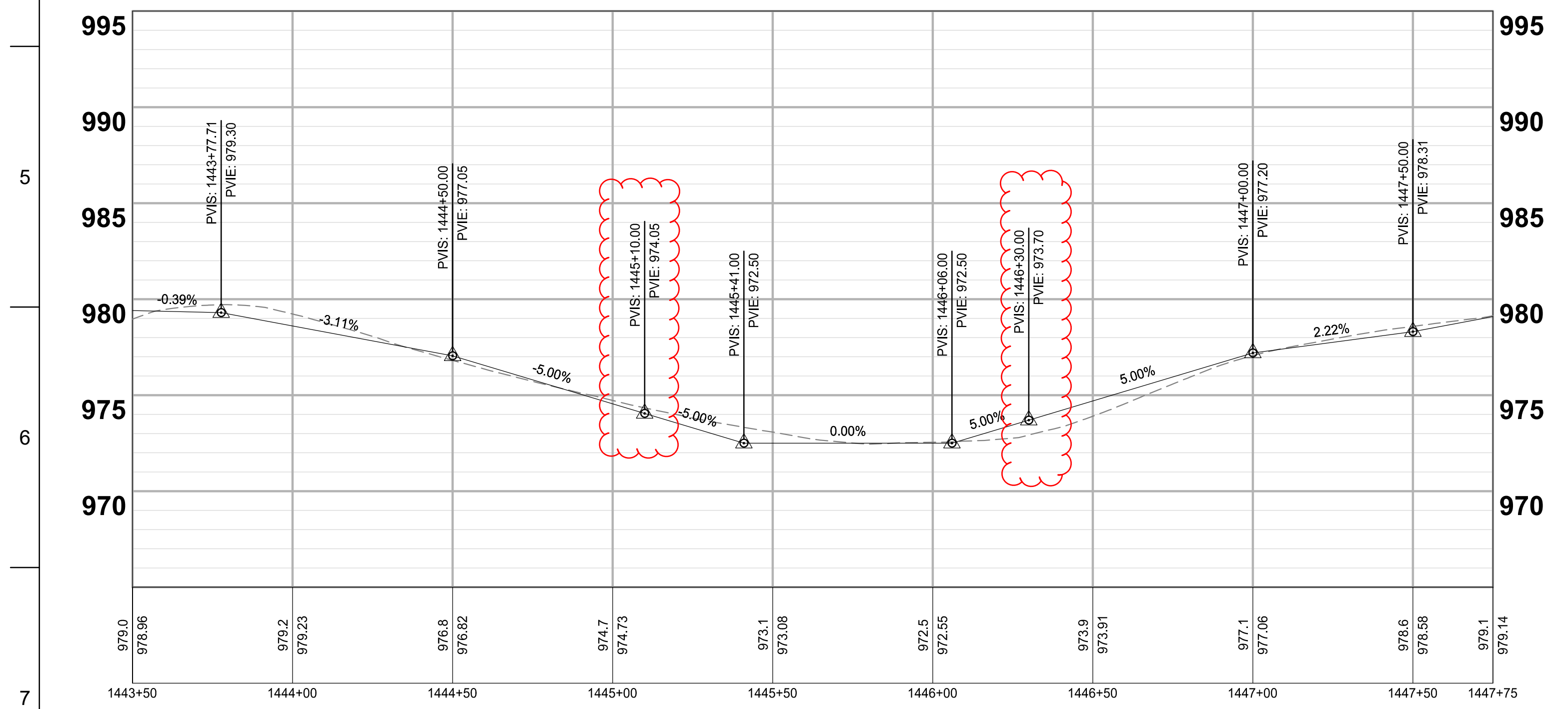
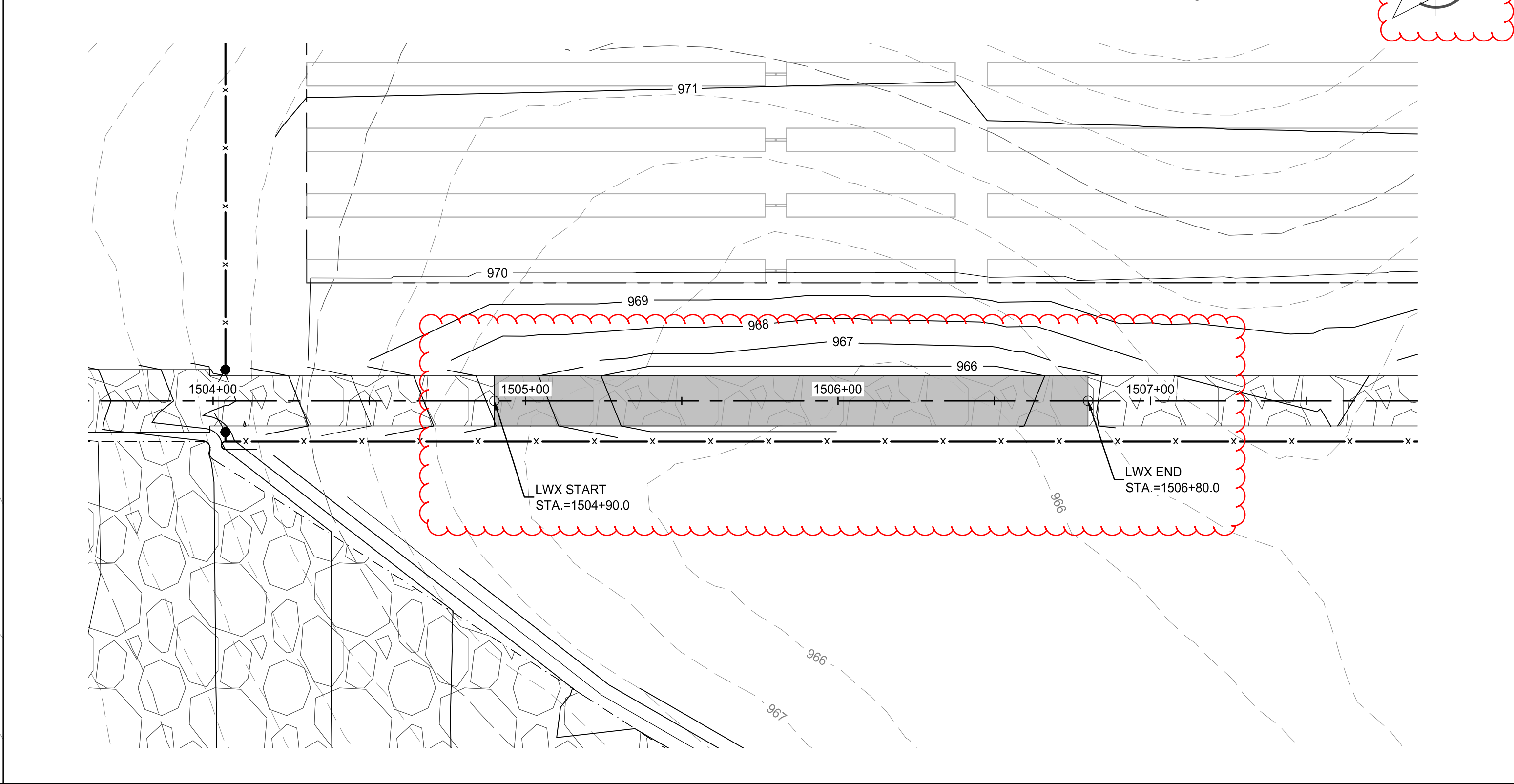
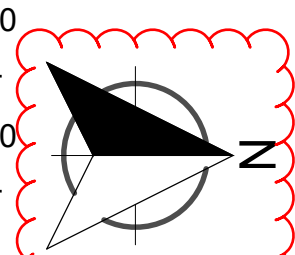
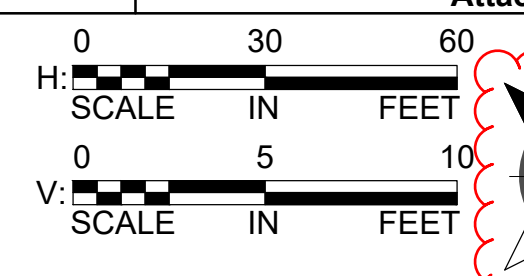
NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG	REFERENCE DRAWINGS		I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. Signature: _____ Typed or Printed Name: EARTH A. EVANS Date: 03-27-24, License Number: 44235	 NORTHERN STATES POWER COMPANY SHERCO SOLAR III SHERBURNE COUNTY, MINNESOTA	THIS MAP/DOCUMENT IS A TOOL TO ASSIST EMPLOYEES IN THE PERFORMANCE OF THEIR JOBS. YOUR PERSONAL SAFETY IS PROVIDED FOR BY USING SAFETY PRACTICES, PROCEDURES, AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS AND MANUALS.	UNIT 0 CIVIL ACCESS ROADS LWX & ITX OVERVIEW	ENERGY SUPPLY ENGINEERING & CONSTRUCTION	NH-273609-15	REV D		
	A	30% - BLATTNER SUBMITTAL		09-19-23	JMS	DJK	TOR						DWG NO.	MANUFACTURER	DESCRIPTION									
	B	60% - BLATTNER SUBMITTAL		11-27-23	JMS	JDD	EAE							DWN: JMS	DATE: 03-27-24								CHK: DJK	DATE: 03-27-24
	C	60% - SUBSTATION SUBMITTAL		12-01-23	JMS	JDD	EAE							ENG: EAE	DATE: 03-27-24								CHK: EAE	DATE: 03-27-24
D	90% - BLATTNER SUBMITTAL		03-27-24	JMS	DJK	EAE							PM: AAK	DATE: 03-27-24	PROJ. NO: 25233	APVD: EAE	DATE: 03-27-24	SCALE: 1"=1000'						

023176-SHRC3-CPL-LWX-PLAN-1.dwg

LOW WATER CROSSING - LWX-1L4
 CONSTRUCT PER DETAIL 1, SHEET NH-273609-8
 FOR FULL GRADING PLAN
 SEE SHEET NH-273609-14-6



LOW WATER CROSSING - LWX-1L5
 CONSTRUCT PER DETAIL 1, SHEET NH-273609-8
 FOR FULL GRADING PLAN
 SEE SHEET NH-273609-14-8



023176-SHR03-CPL-LWX-PLAN-2.dwg

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG
A	30% - BLATTNER SUBMITTAL		09-19-23	JMS	DJK	TOR							
B	60% - BLATTNER SUBMITTAL		11-27-23	JMS	JDD	EAE							
C	60% - SUBSTATION SUBMITTAL		12-01-23	JMS	JDD	EAE							
D	90% - BLATTNER SUBMITTAL		03-27-24	JMS	DJK	EAE							

I hereby certify that this plan, specification, or report 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.
 Signature: _____
 Typed or Printed Name: **EARTH A. EVANS**
 Date: 03-27-24, License Number: 44235

REFERENCE DRAWINGS			
DWG NO.	MANUFACTURER	DESCRIPTION	

XcelEnergy
 NORTHERN STATES POWER COMPANY
SHERCO SOLAR III
 SHERBURNE COUNTY, MINNESOTA

DWN: JMS	DATE: 03-27-24	CHK: DJK	DATE: 03-27-24
ENG: EAE	DATE: 03-27-24	CHK: EAE	DATE: 03-27-24
PM: AAK	DATE: 03-27-24	PROJ. NO: 25233	
APVD: EAE	DATE: 03-27-24	SCALE: AS NOTED	

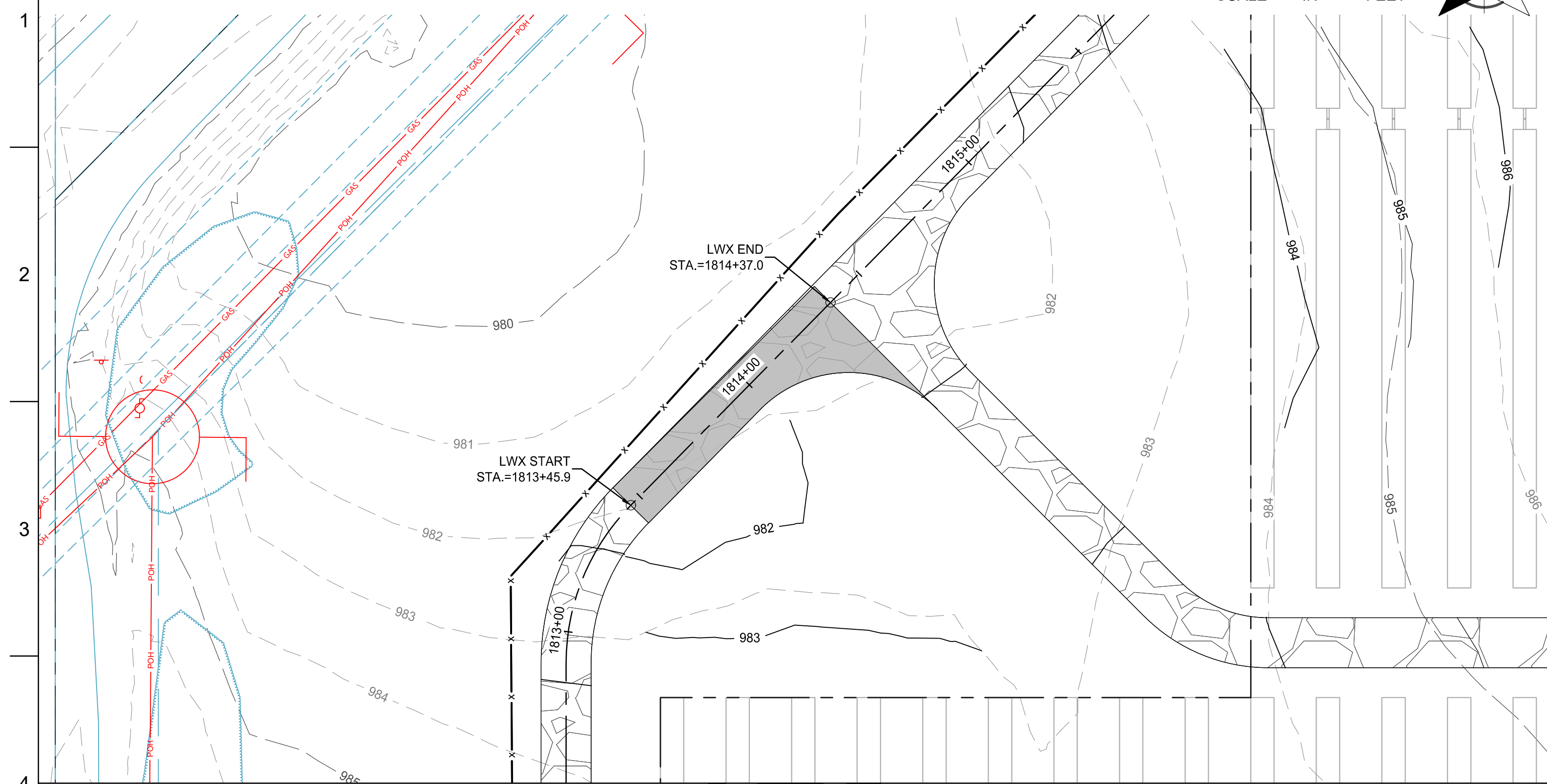
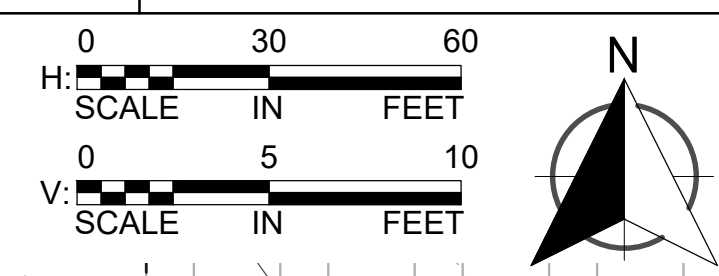
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ENERGY SUPPLY
 ENGINEERING & CONSTRUCTION

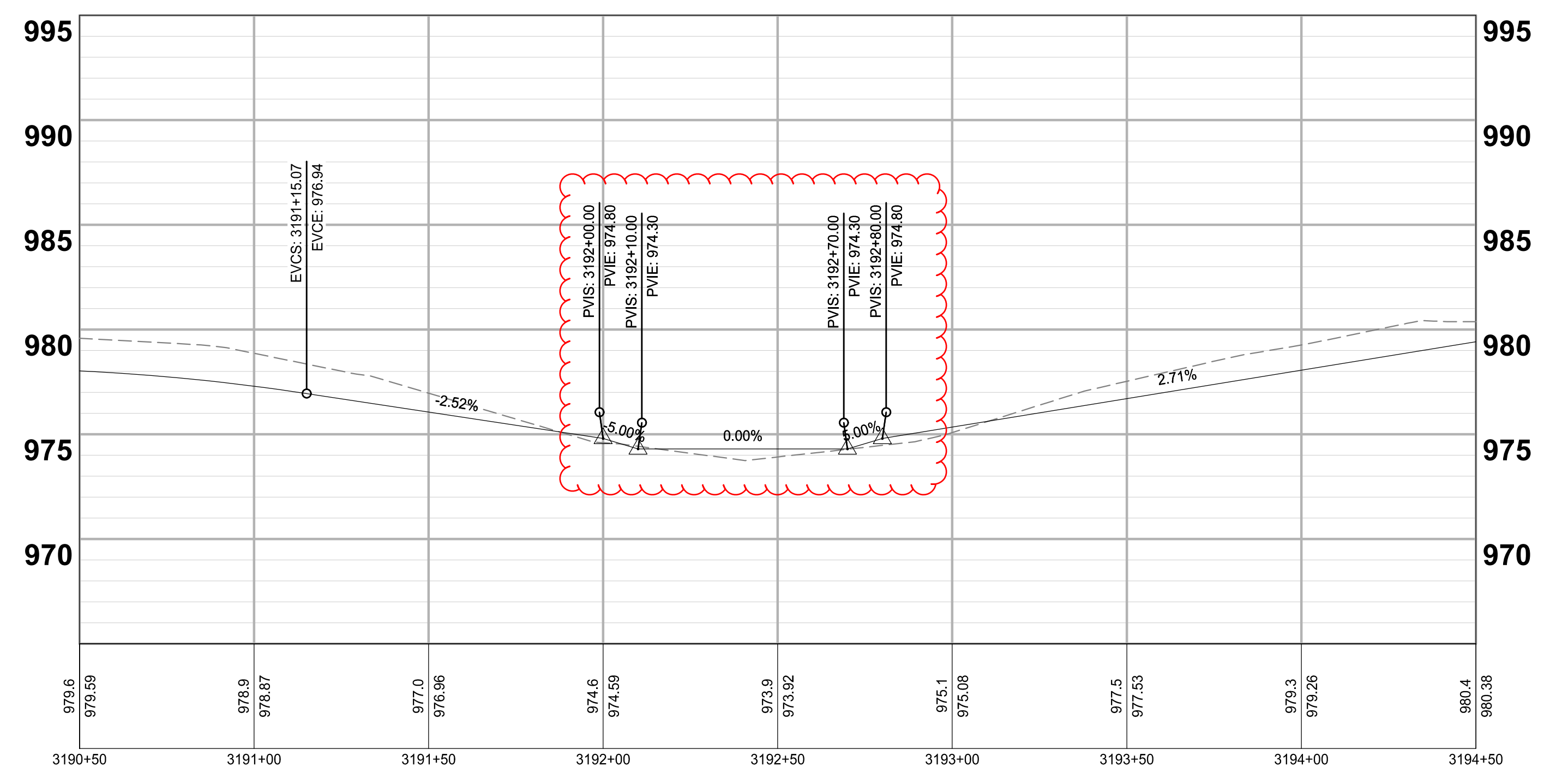
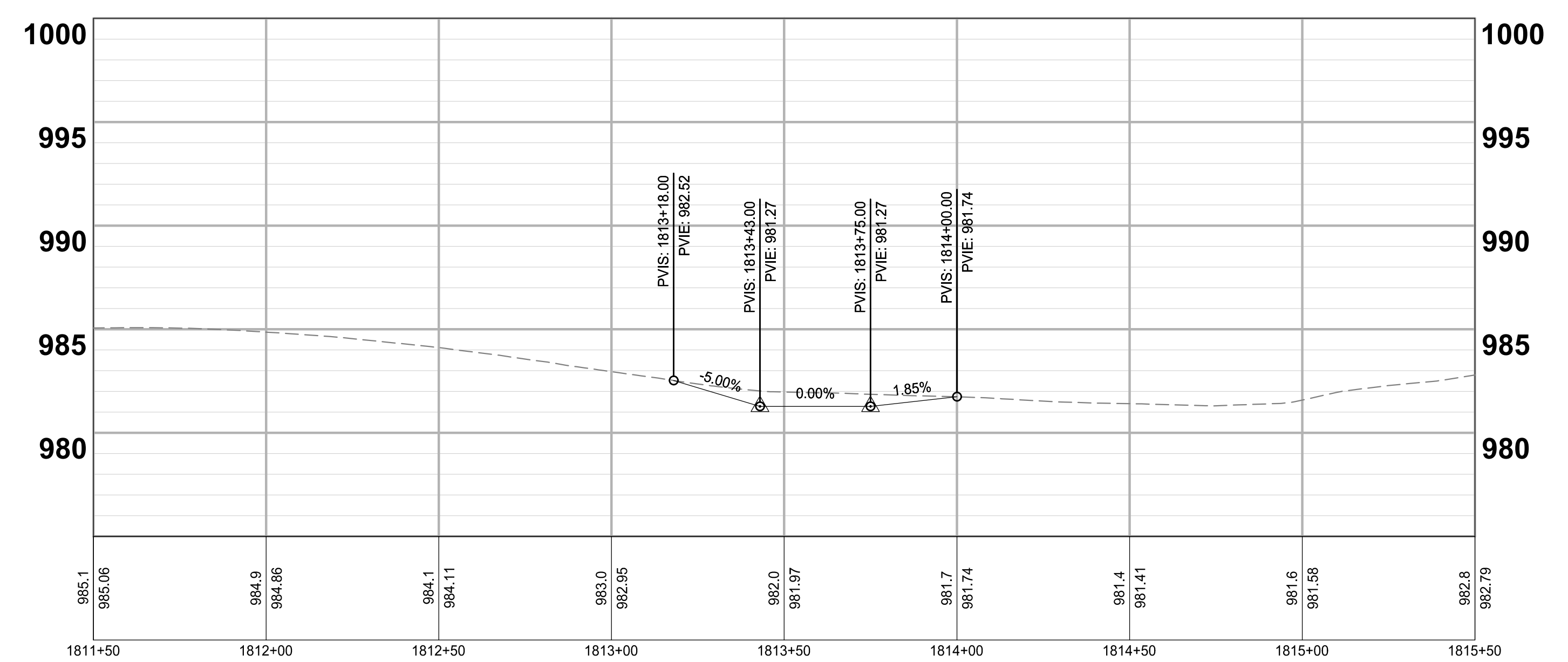
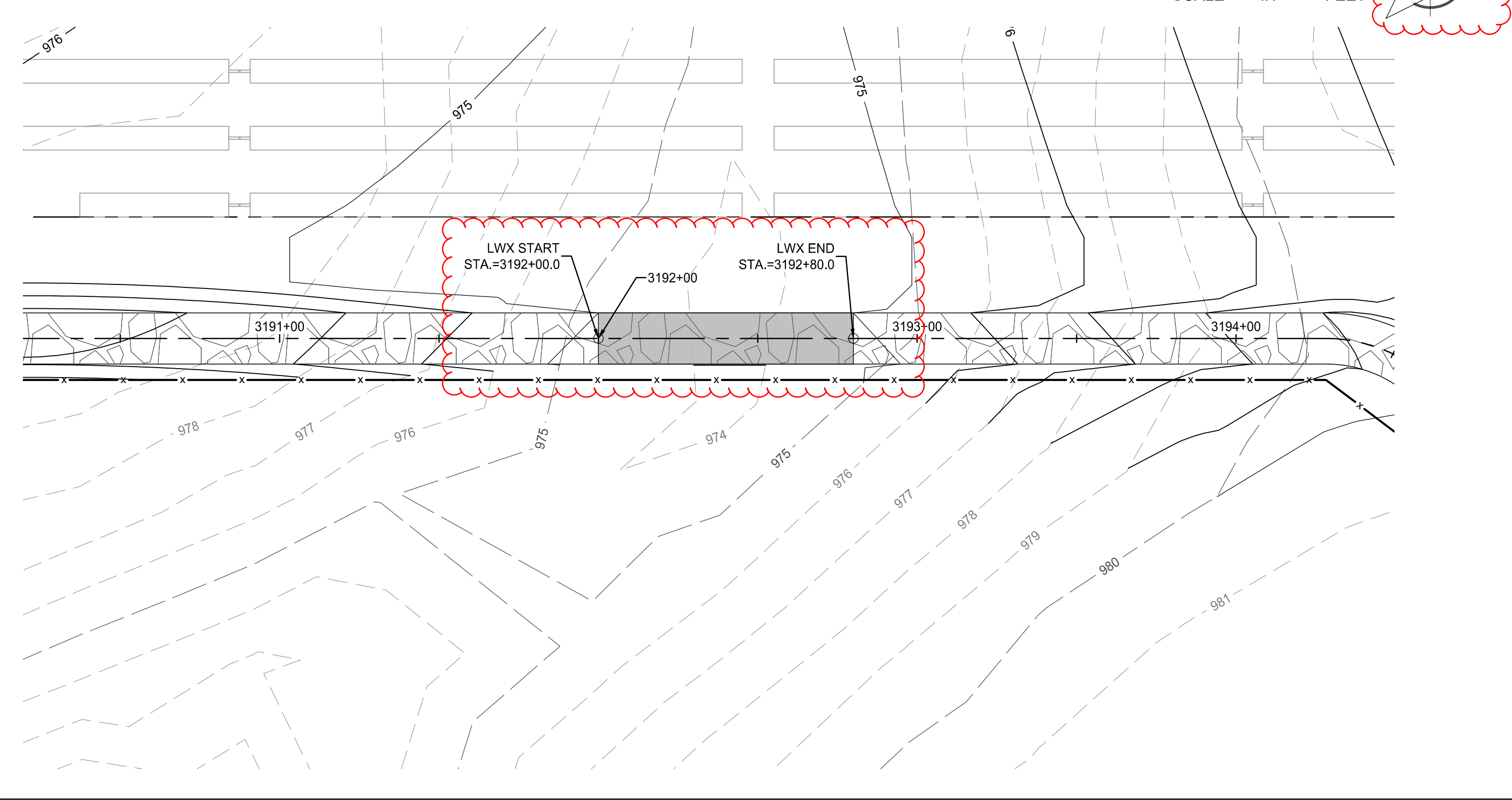
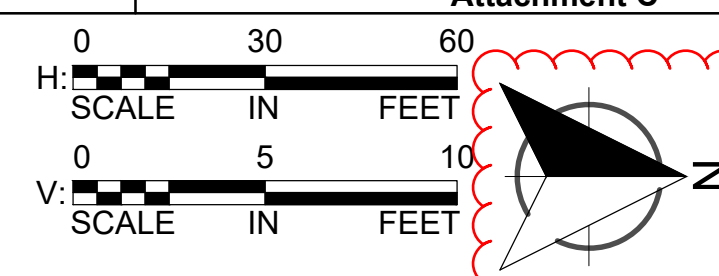
UNIT 0
 CIVIL ACCESS ROADS
 LOW WATER CROSSINGS
NH-273609-16-1

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LOW WATER CROSSING - LWX-1L8
 CONSTRUCT PER DETAIL 1, SHEET NH-273609-8
 FOR FULL GRADING PLAN
 SEE SHEET NH-273609-14-13



LOW WATER CROSSING - LWX-3L1
 CONSTRUCT PER DETAIL 1, SHEET NH-273609-8
 FOR FULL GRADING PLAN
 SEE SHEET NH-273609-14-26



023176-SHRC3-CPL-LWX-PLAN-2.dwg

NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO	REVISION	ZONE	DATE	BY	CHK	ENG
A	30% - BLATTNER SUBMITTAL		09-19-23	JMS	DJK	TOR							
B	60% - BLATTNER SUBMITTAL		11-27-23	JMS	JDD	EAE							
C	60% - SUBSTATION SUBMITTAL		12-01-23	JMS	JDD	EAE							
D	90% - BLATTNER SUBMITTAL		03-27-24	JMS	DJK	EAE							

I hereby certify that this plan, specification, or report 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.
 Signature: _____
 Typed or Printed Name: **EARTH A. EVANS**
 Date: 03-27-24, License Number: 44235

DWG NO.	MANUFACTURER	DESCRIPTION

XcelEnergy
 NORTHERN STATES POWER COMPANY
SHERCO SOLAR III
 SHERBURNE COUNTY, MINNESOTA

DWN: JMS	DATE: 03-27-24	CHK: DJK	DATE: 03-27-24
ENG: EAE	DATE: 03-27-24	CHK: EAE	DATE: 03-27-24
PM: AAK	DATE: 03-27-24	PROJ. NO: 25233	
APVD: EAE	DATE: 03-27-24	SCALE: AS NOTED	

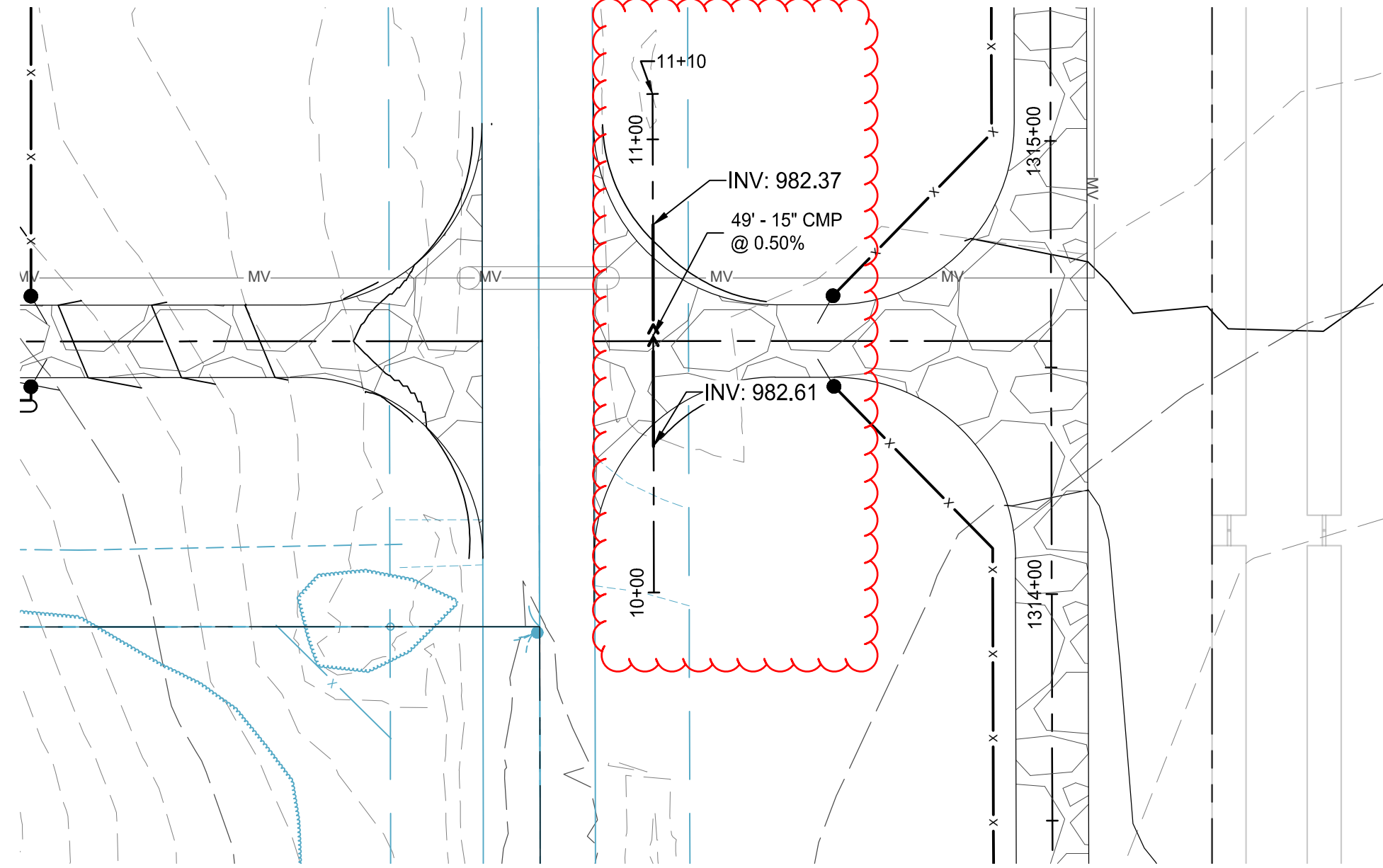
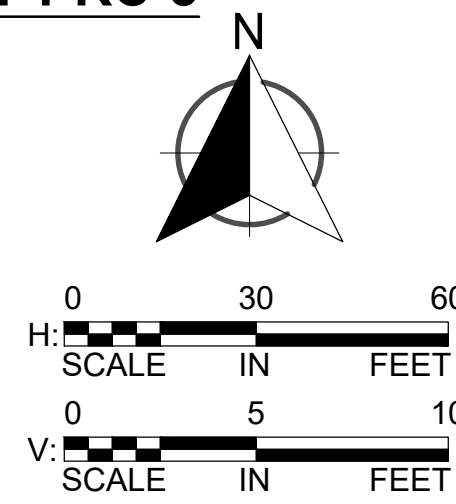
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UNIT 0
 CIVIL ACCESS ROADS
 LOW WATER CROSSINGS
NH-273609-16-2

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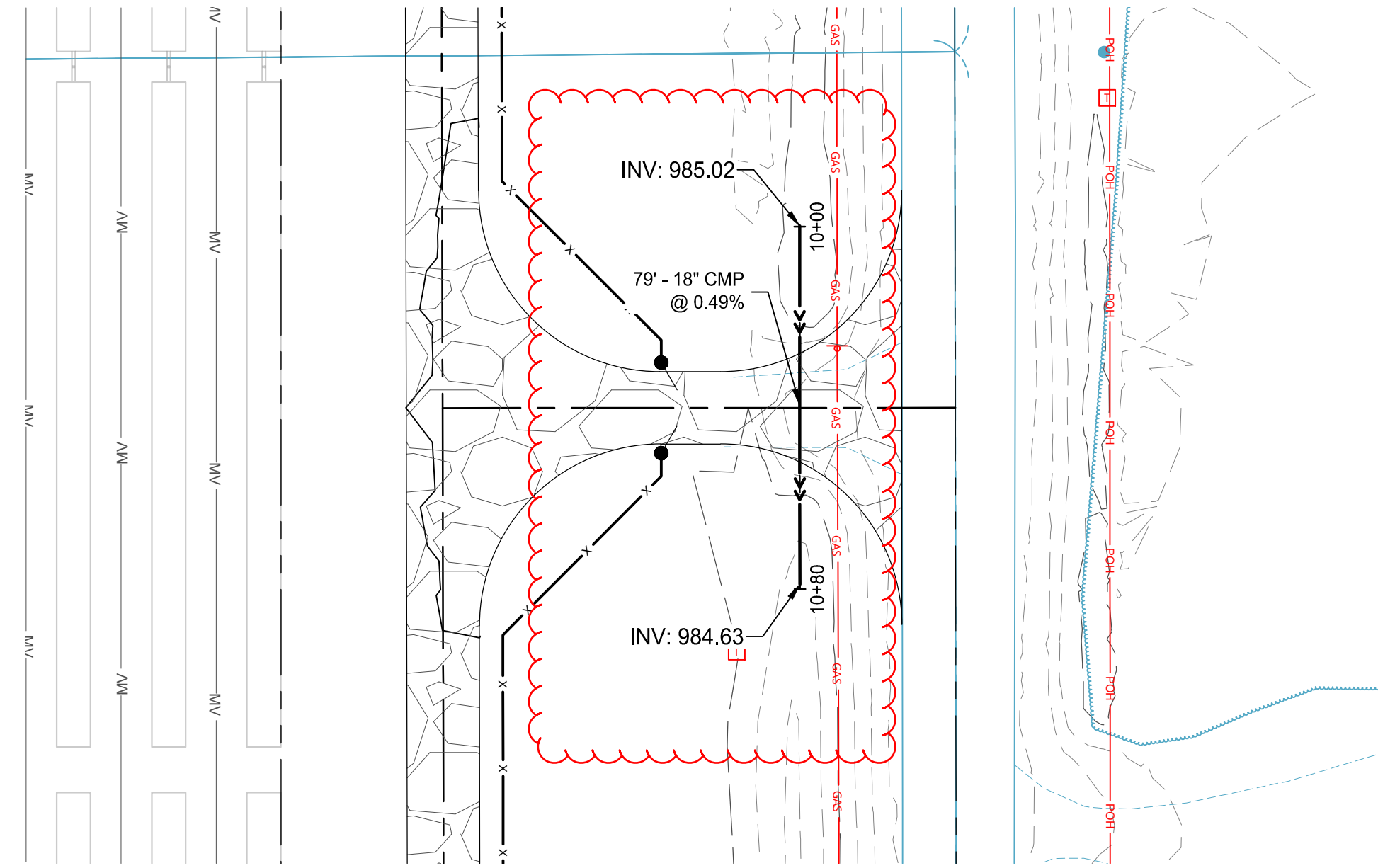
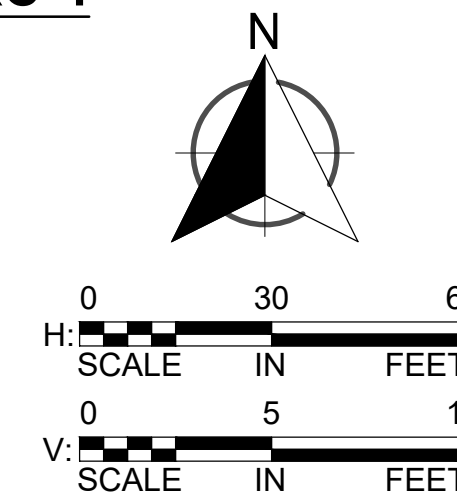
INTERSECTION CULVERT GRADING - CLVT-PRC-3

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-4



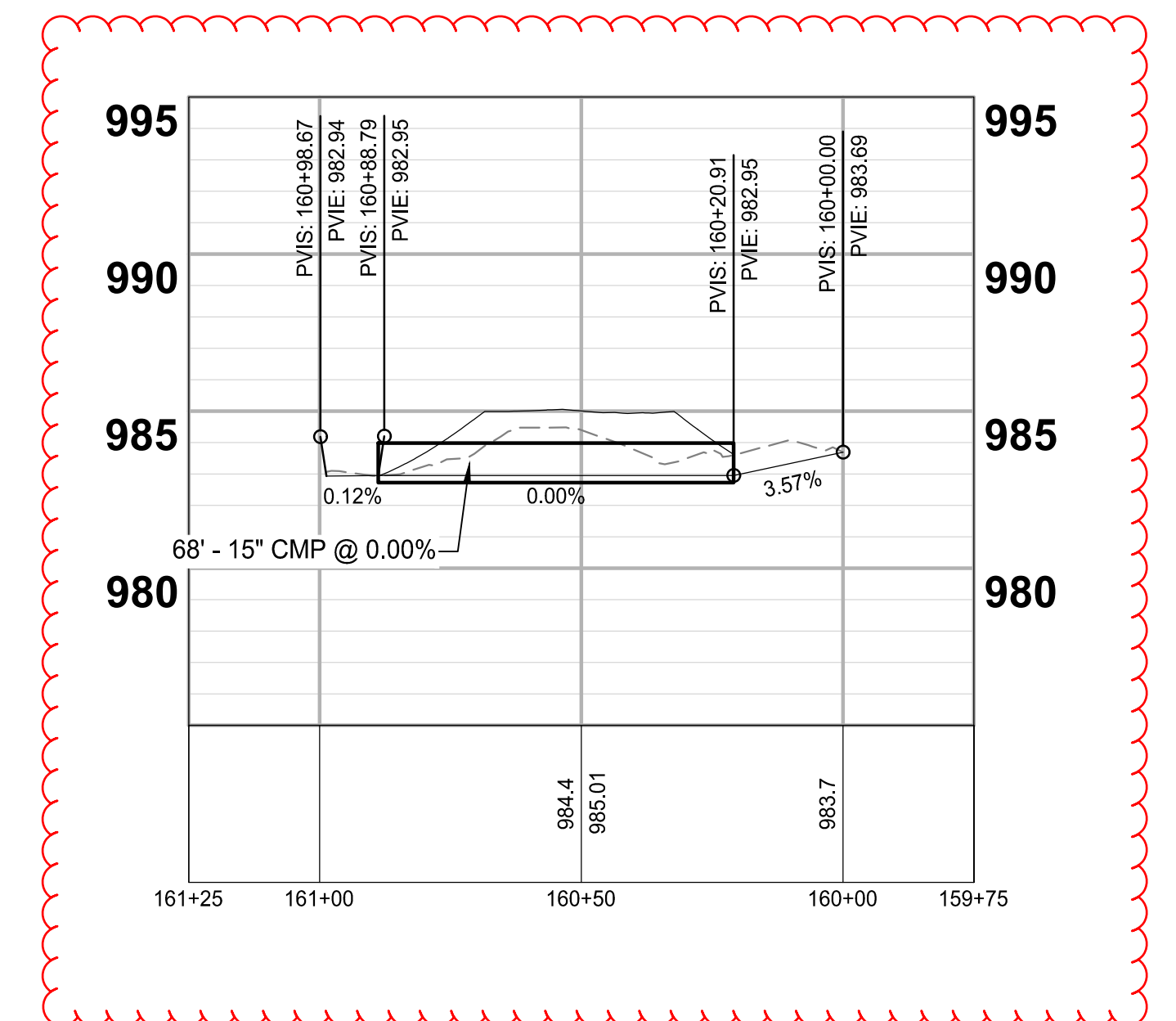
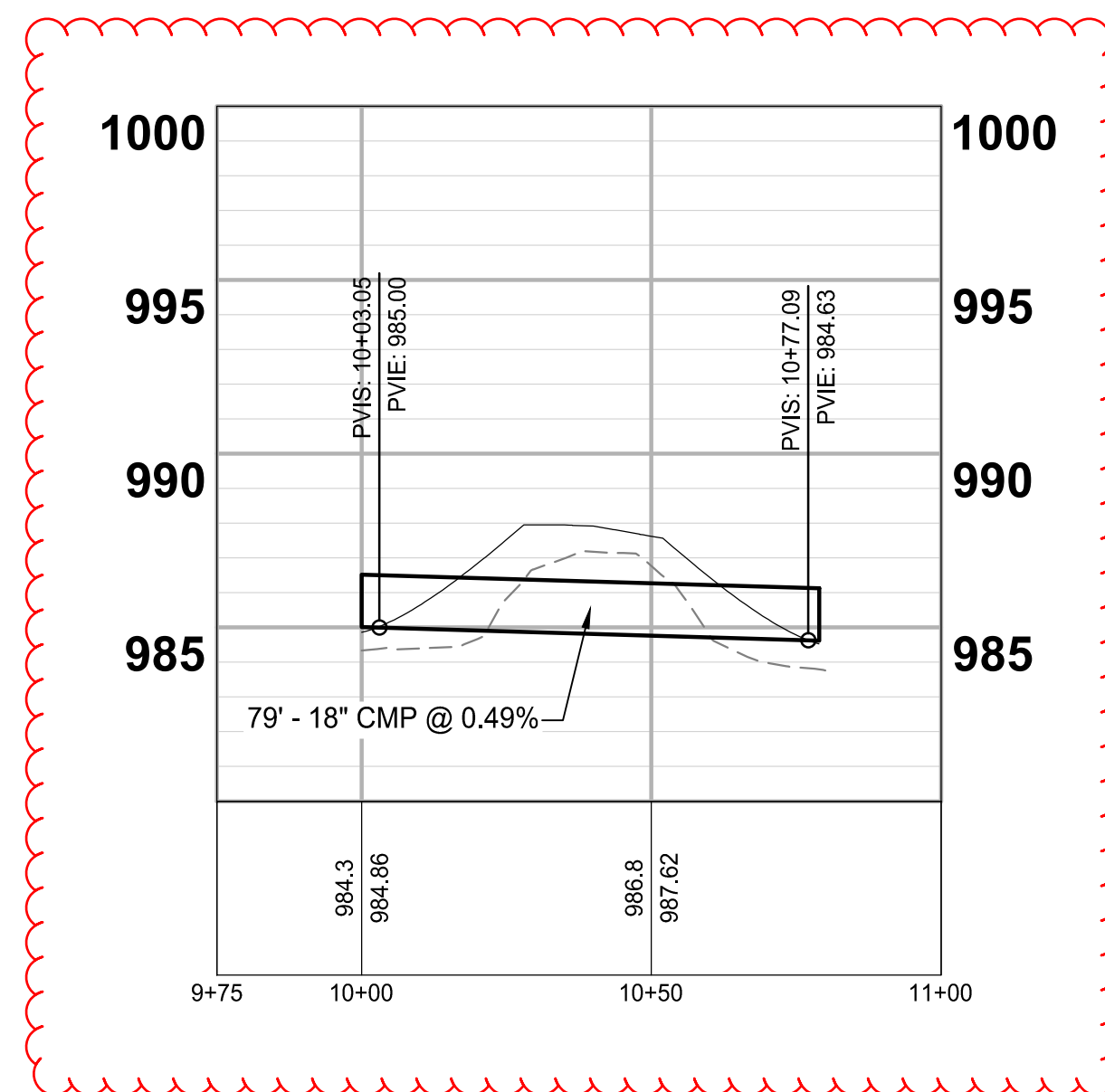
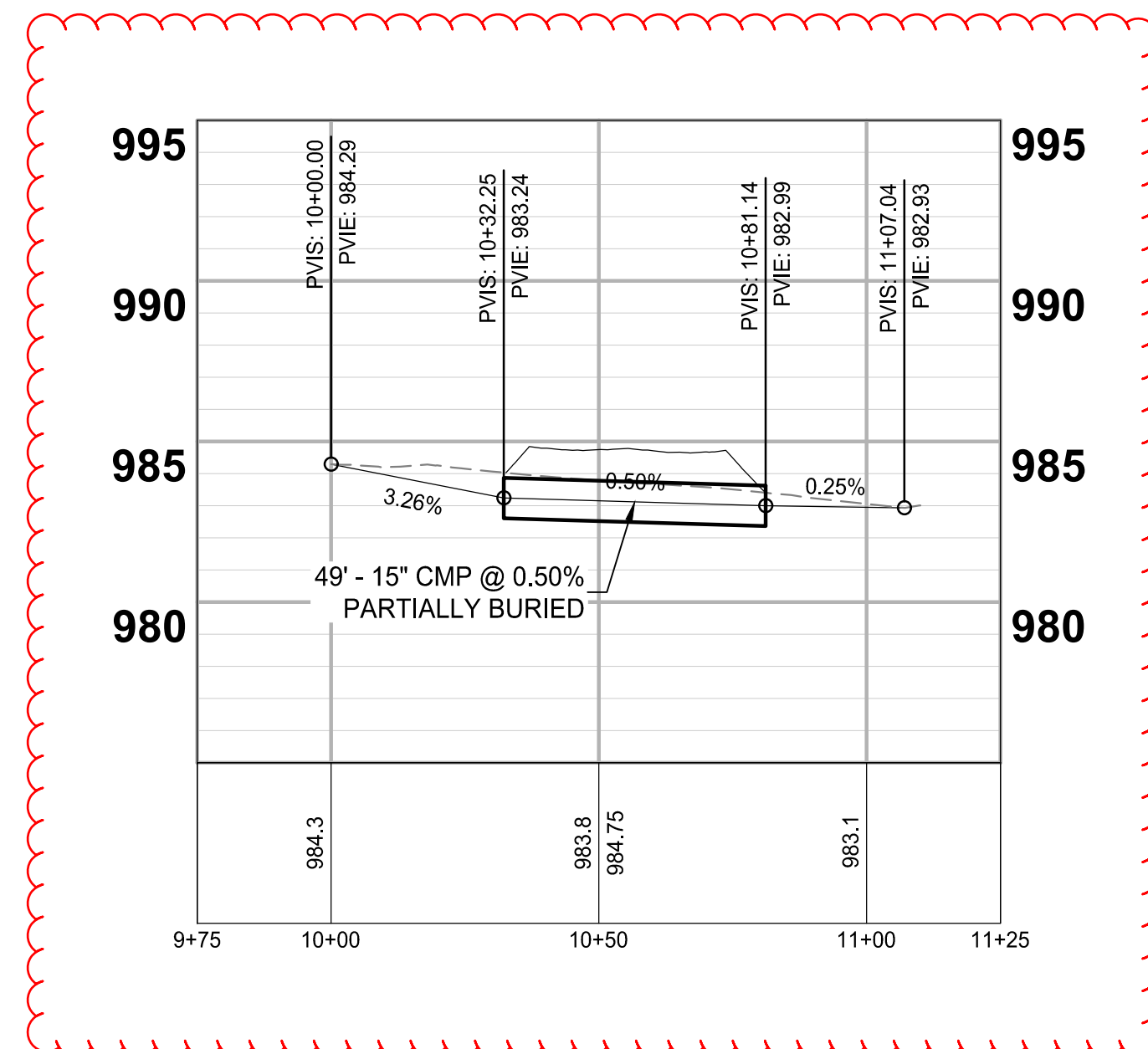
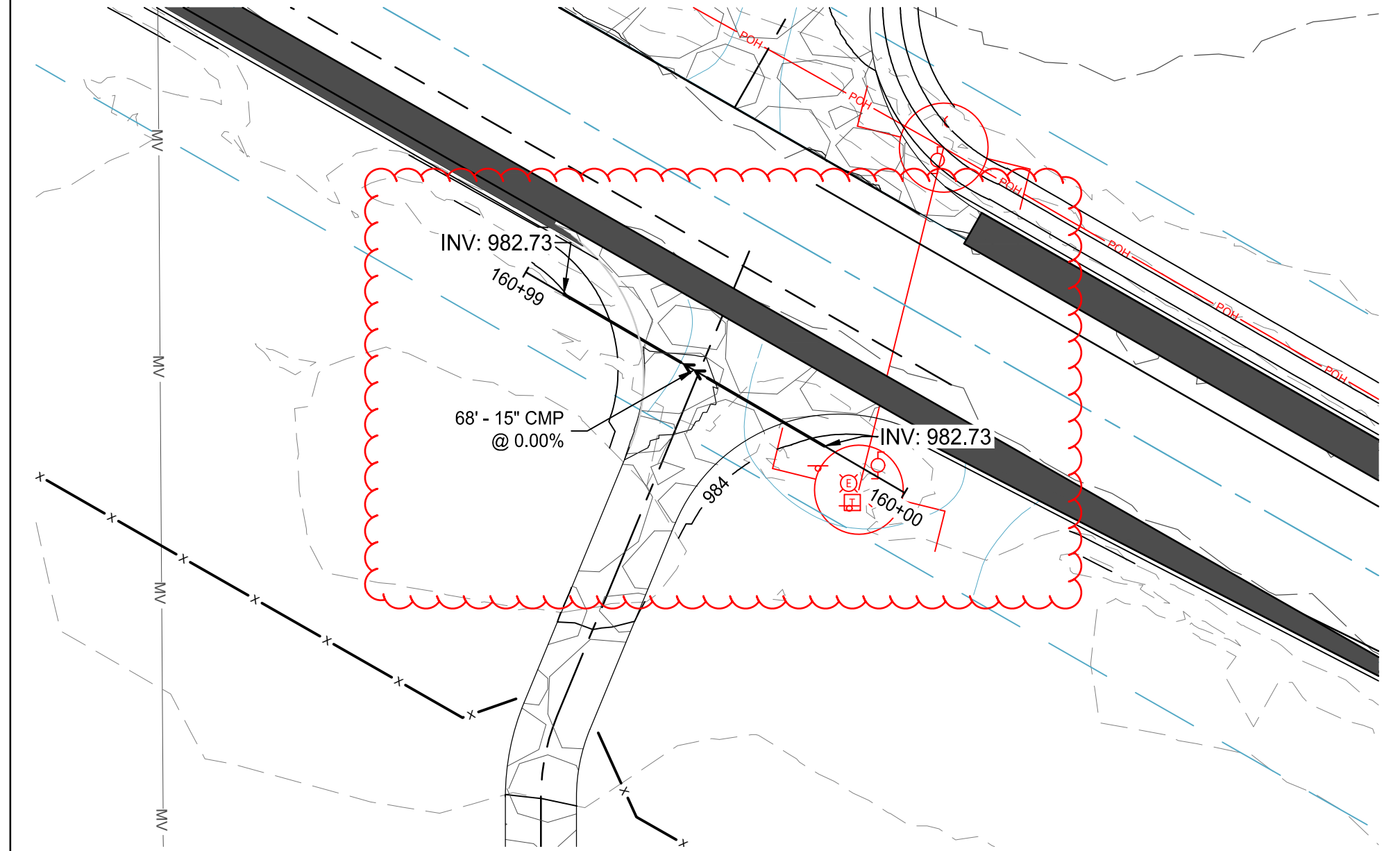
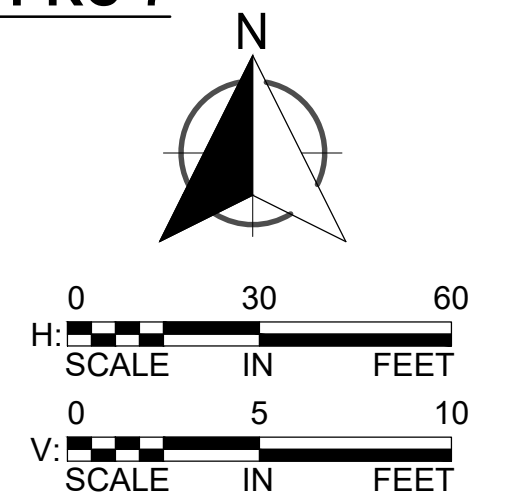
INTERSECTION CULVERT GRADING - CLVT-PRC-4

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-5



INTERSECTION CULVERT GRADING - CLVT-PRC-7

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-9



NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
A	30% - BLATTNER SUBMITTAL		09-19-23	JMS	DJK	TOR	
B	60% - BLATTNER SUBMITTAL		11-27-23	JMS	JDD	EAE	
C	60% - SUBSTATION SUBMITTAL		12-01-23	JMS	JDD	EAE	
D	90% - BLATTNER SUBMITTAL		03-27-24	JMS	DJK	EAE	

REVISION	ZONE	DATE	BY	CHK	ENG

REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

I hereby certify that this plan, specification, or report 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.

Signature: _____
 Typed or Printed Name: _____
 Date: _____ License Number: _____

Xcel Energy
 NORTHERN STATES POWER COMPANY
SHERCO SOLAR III
 SHERBURNE COUNTY, MINNESOTA

DWN: JMS	DATE: 03-27-24	CHK: DJK	DATE: 03-27-24
ENG: EAE	DATE: 03-27-24	CHK: EAE	DATE: 03-27-24
PM: AAK	DATE: 03-27-24	PROJ. NO: 25233	
APVD: EAE	DATE: 03-27-24	SCALE: 1"=1500'-0"	

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ENERGY SUPPLY
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UNIT 0
 CIVIL ACCESS ROADS

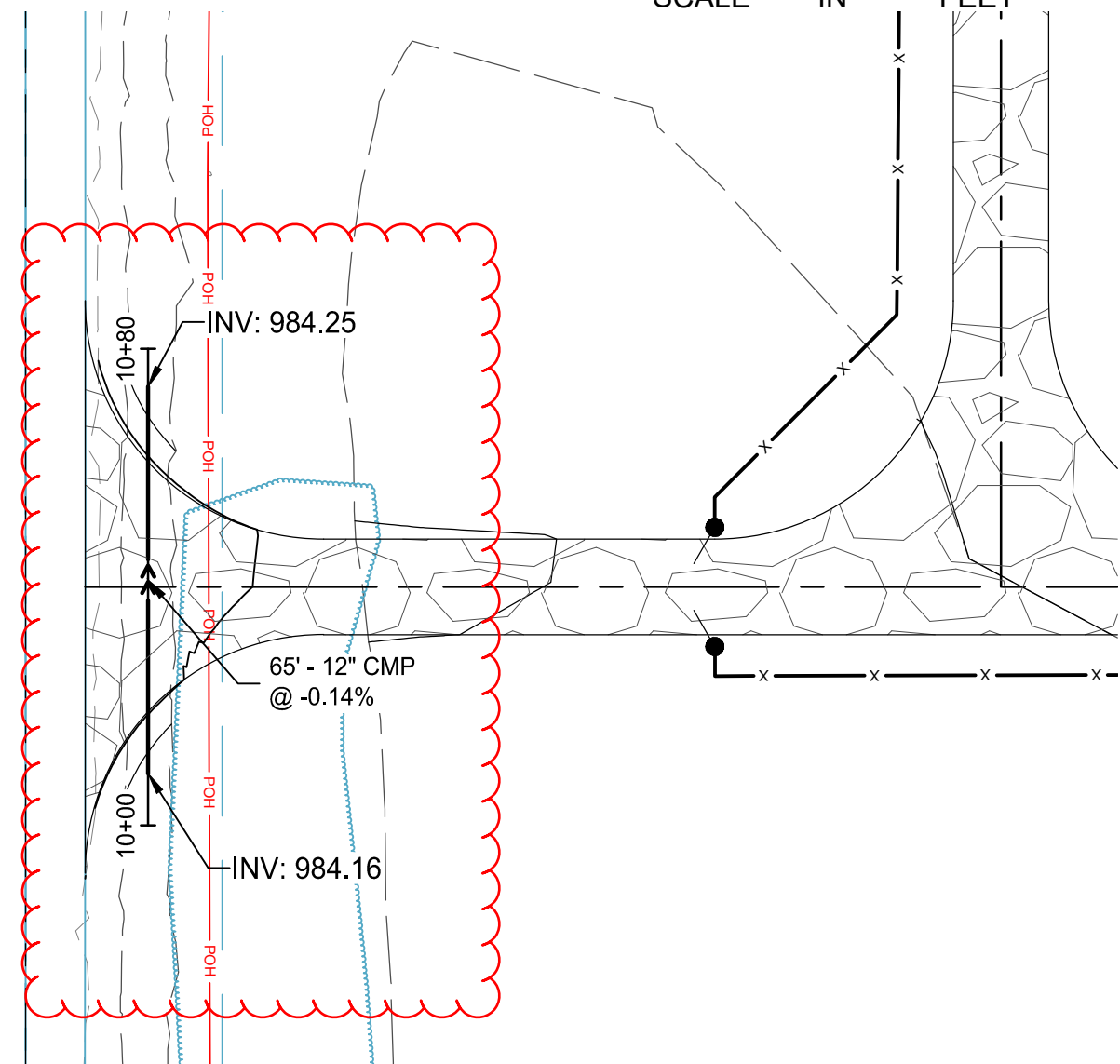
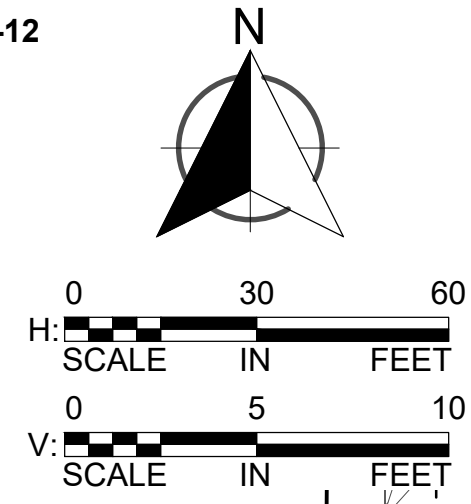
INTERSECTION CULVERT GRADING

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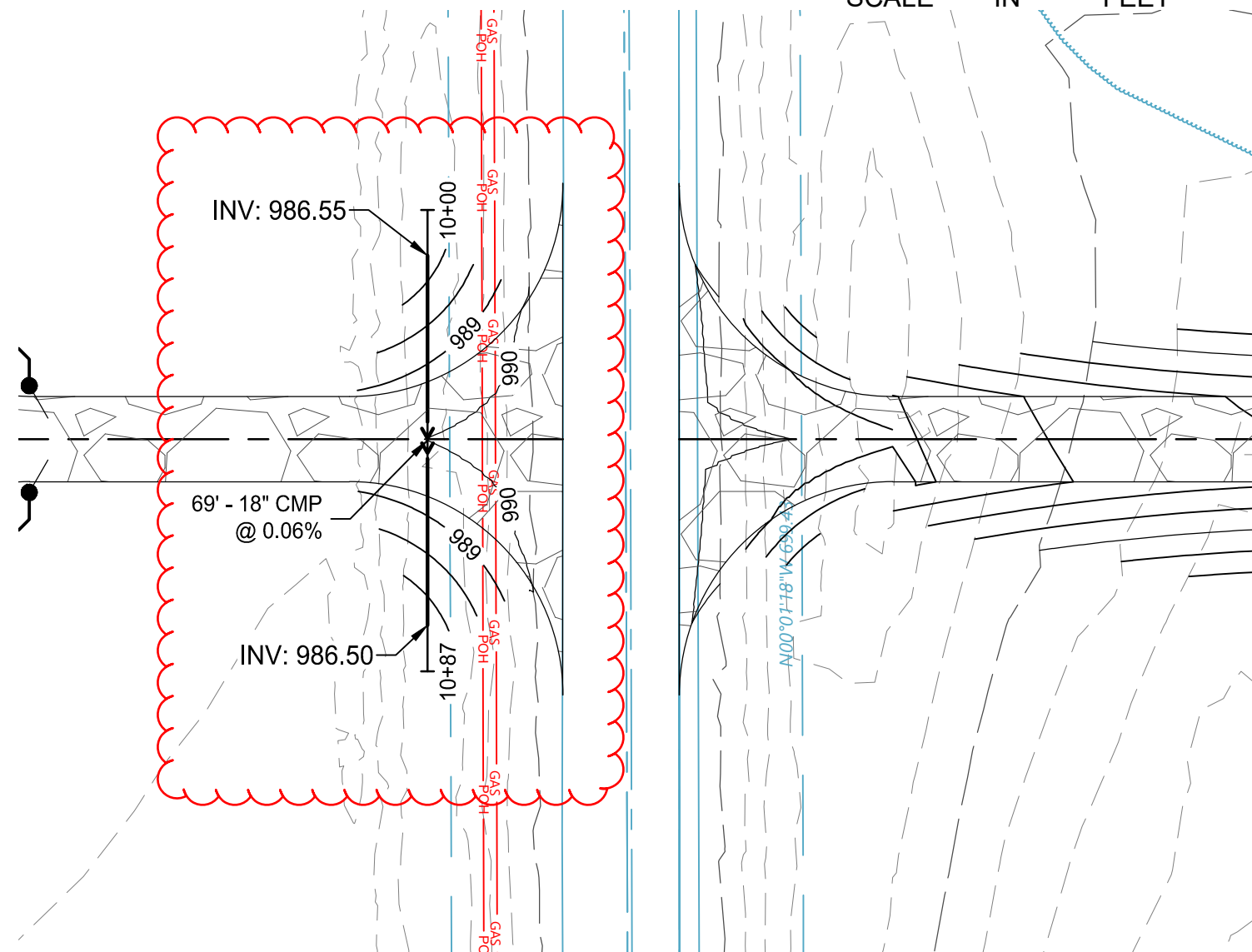
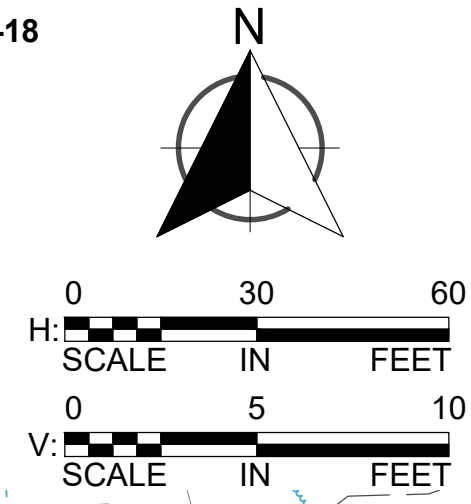
INTERSECTION CULVERT GRADING - CLVT-PRC-8

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-12



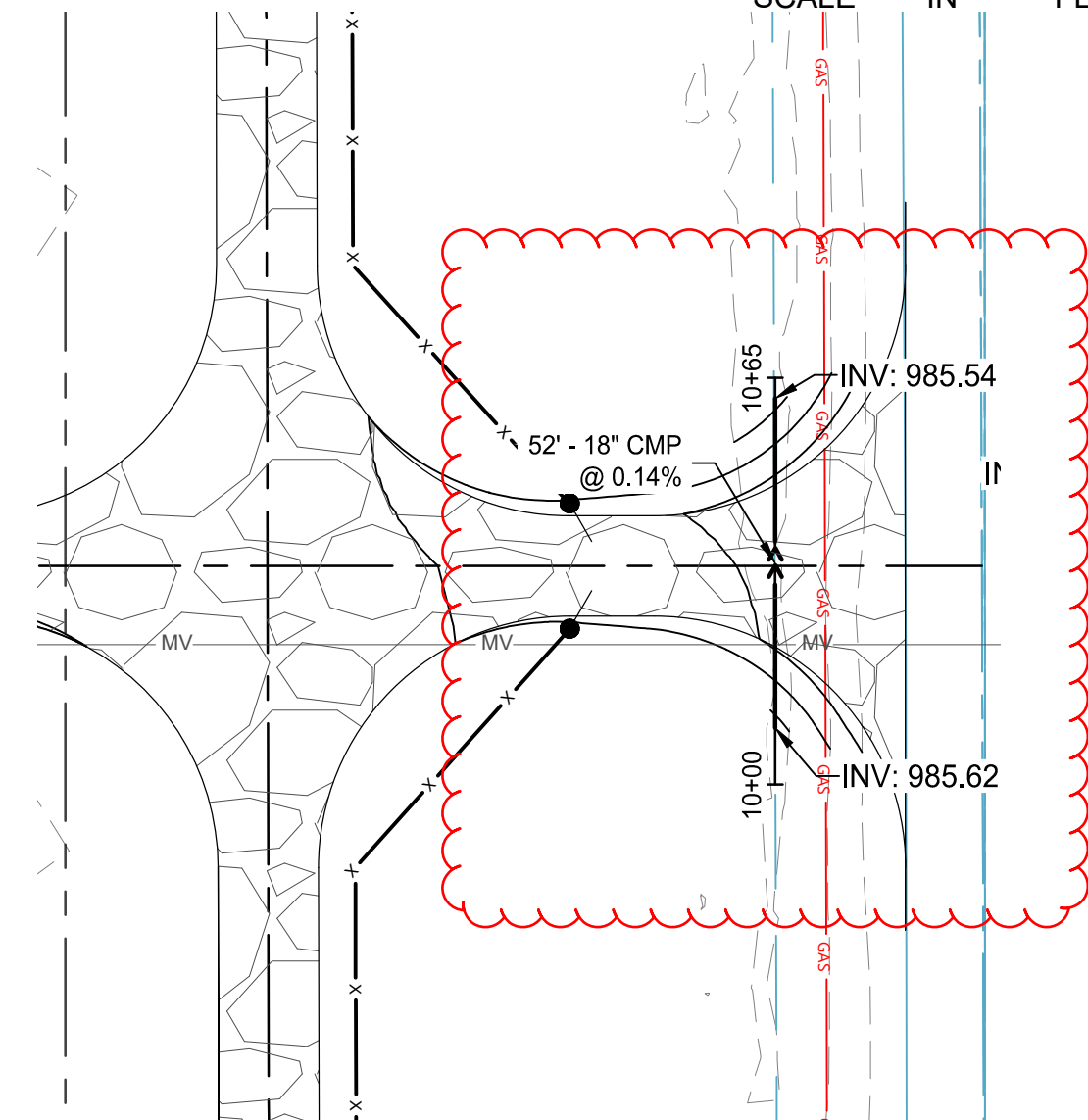
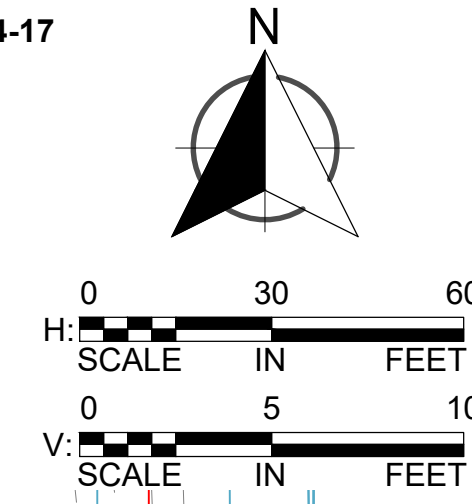
INTERSECTION CULVERT GRADING - CLVT-PRC-9

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-18



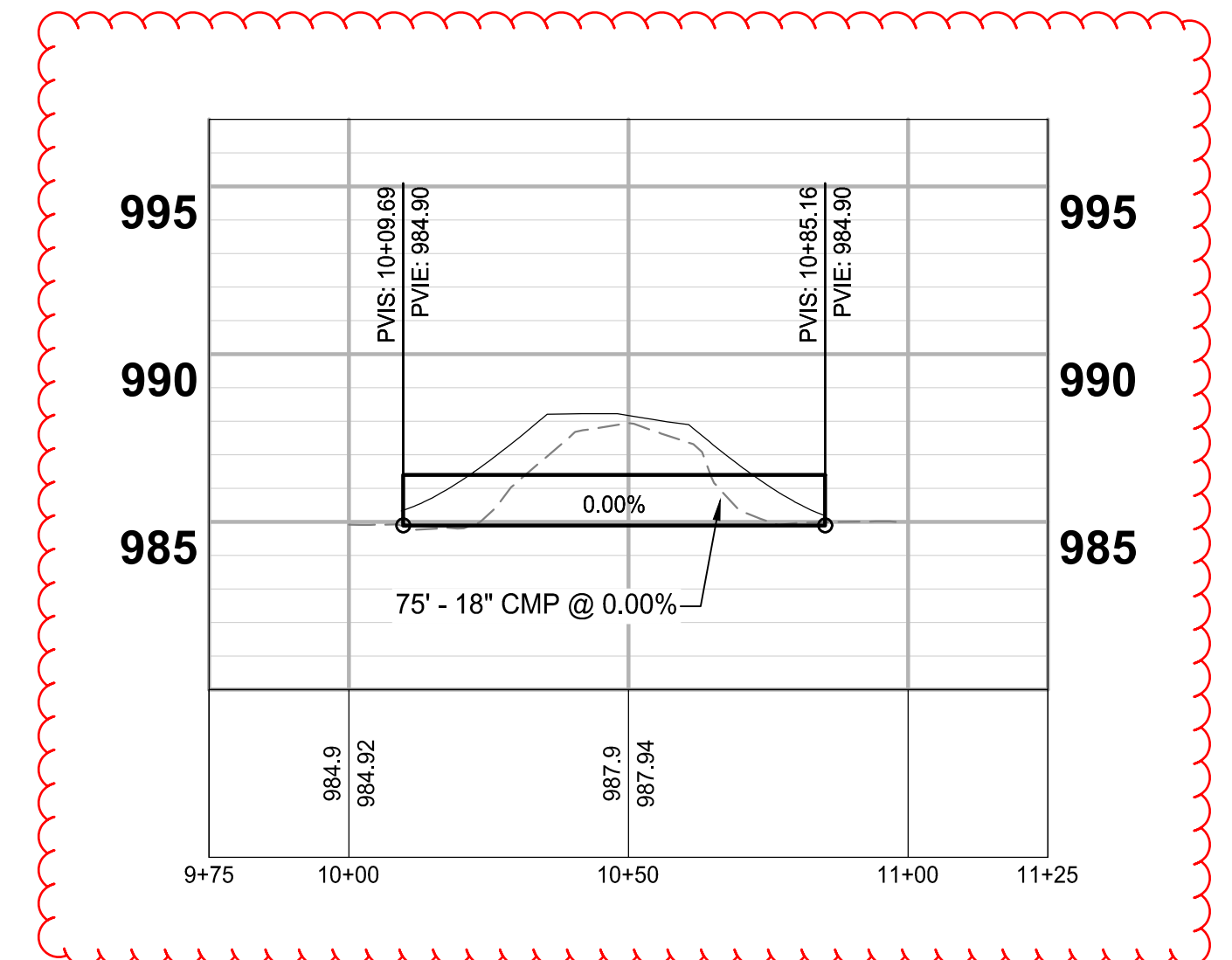
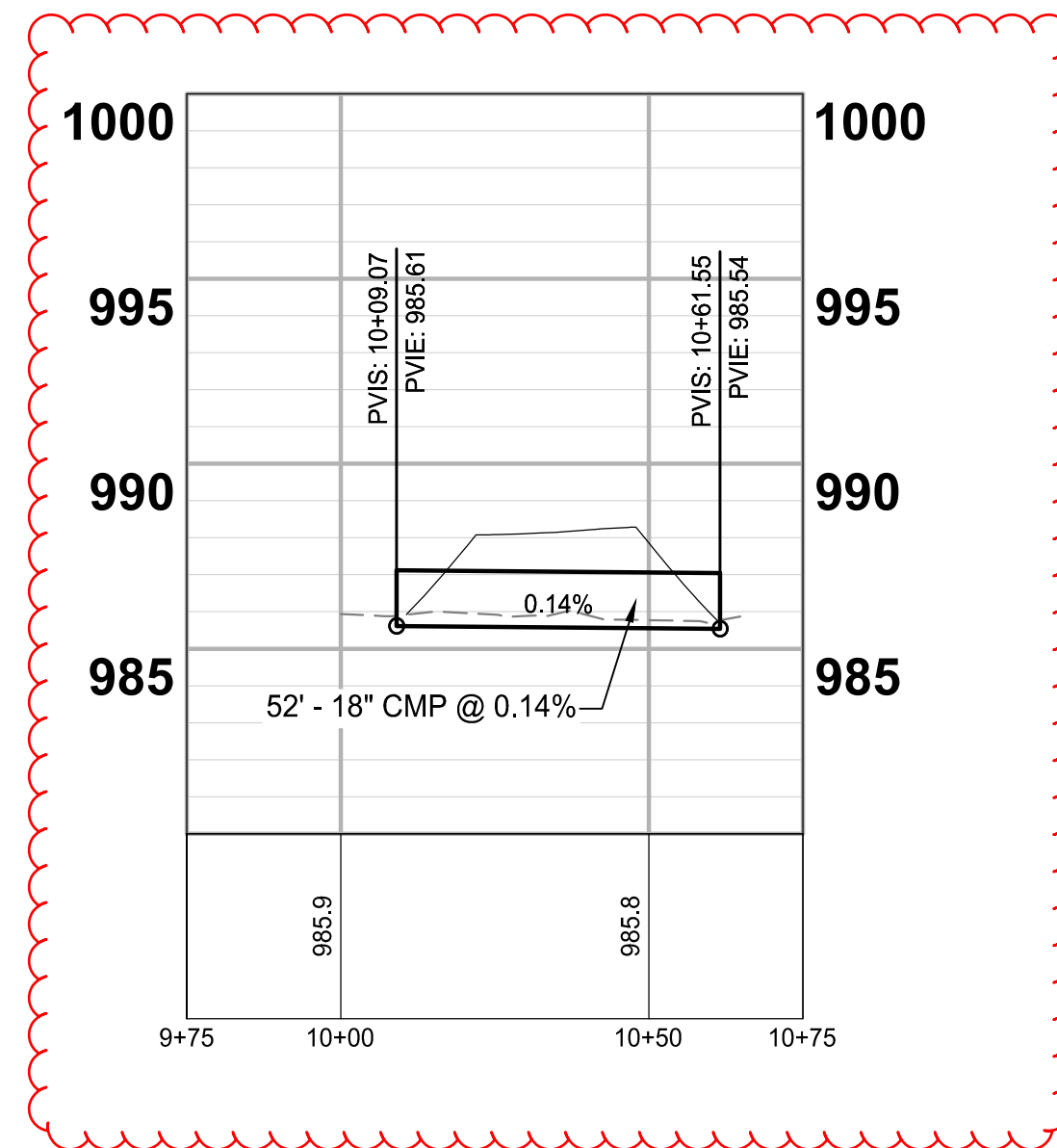
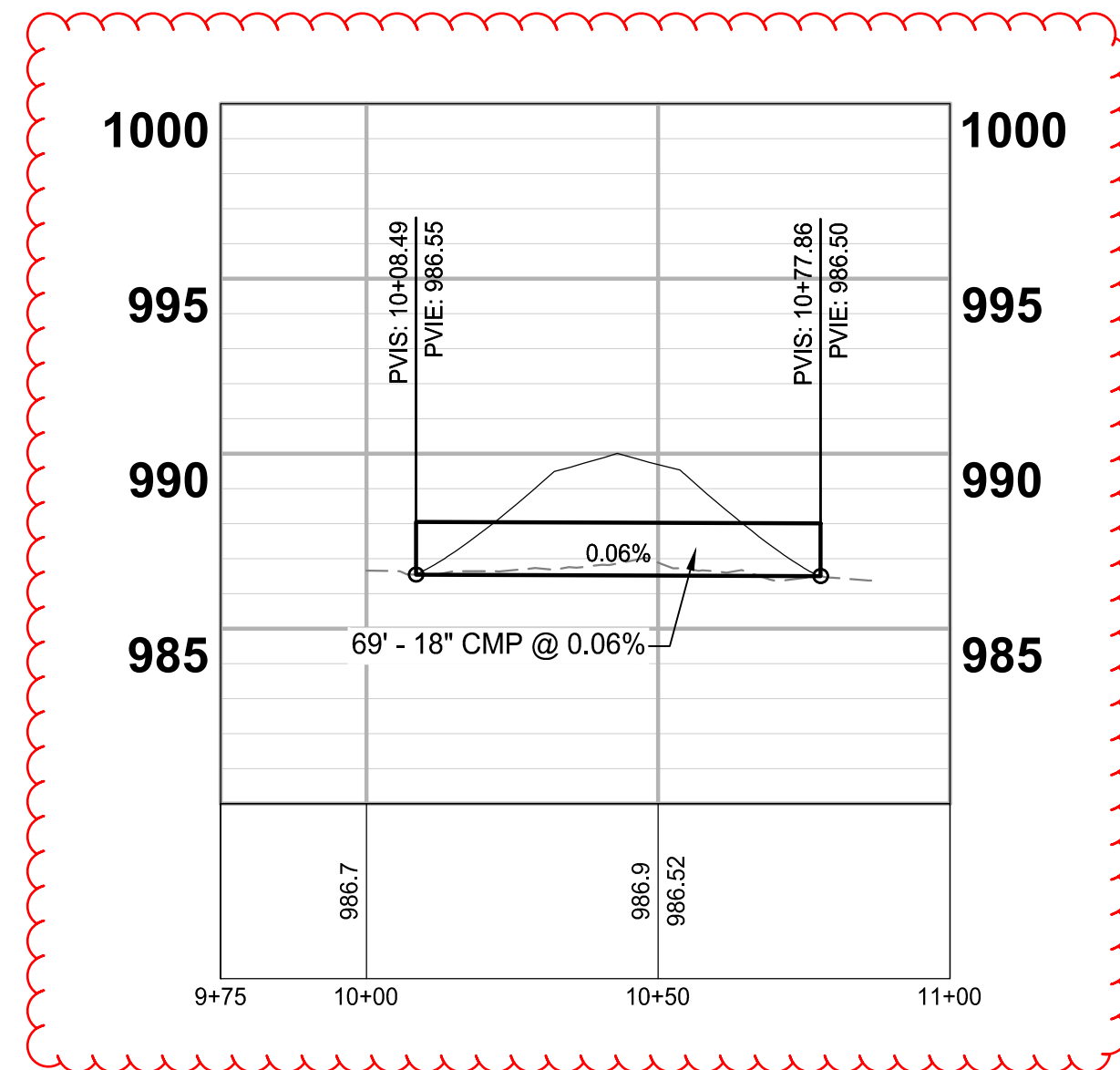
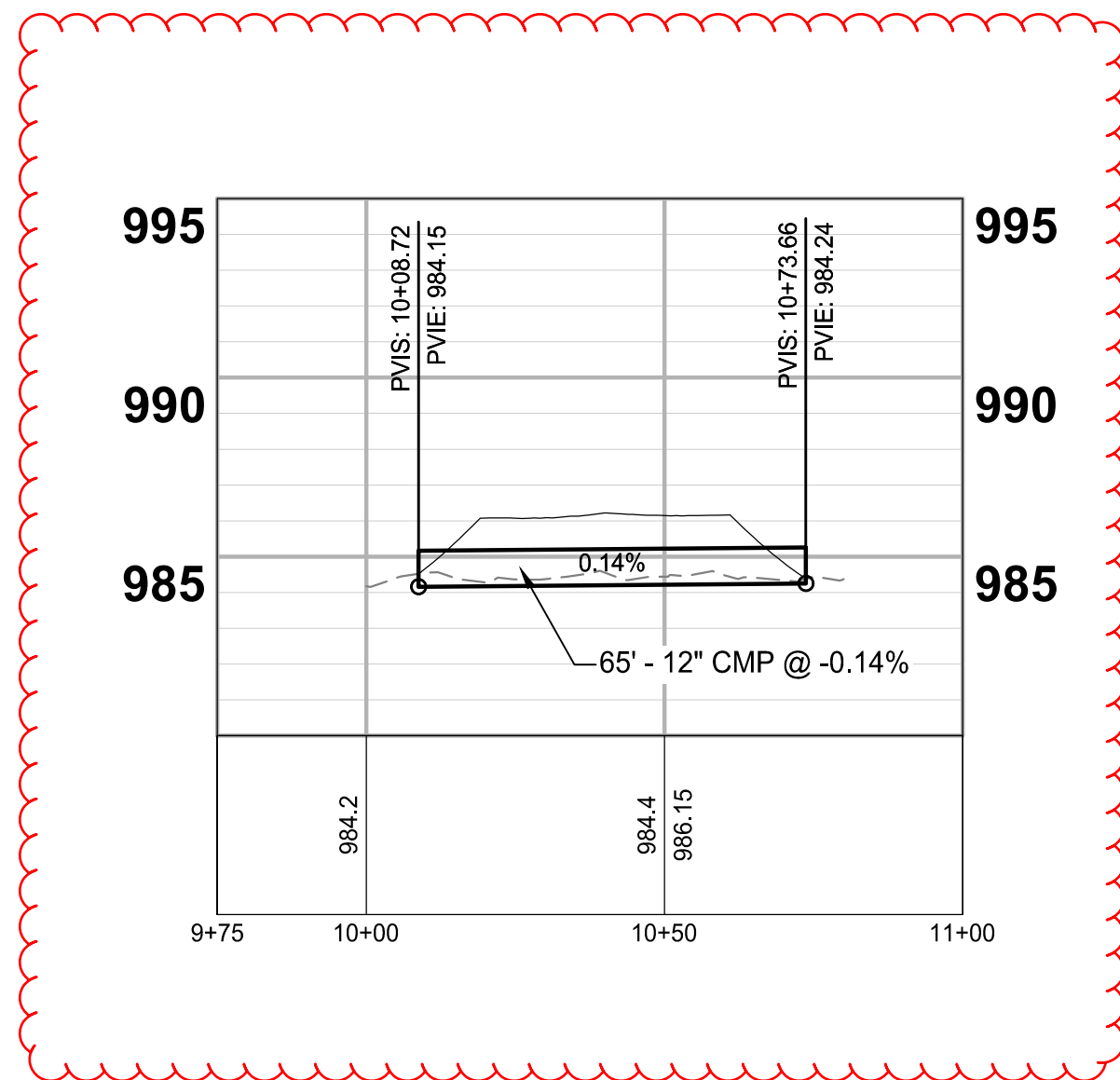
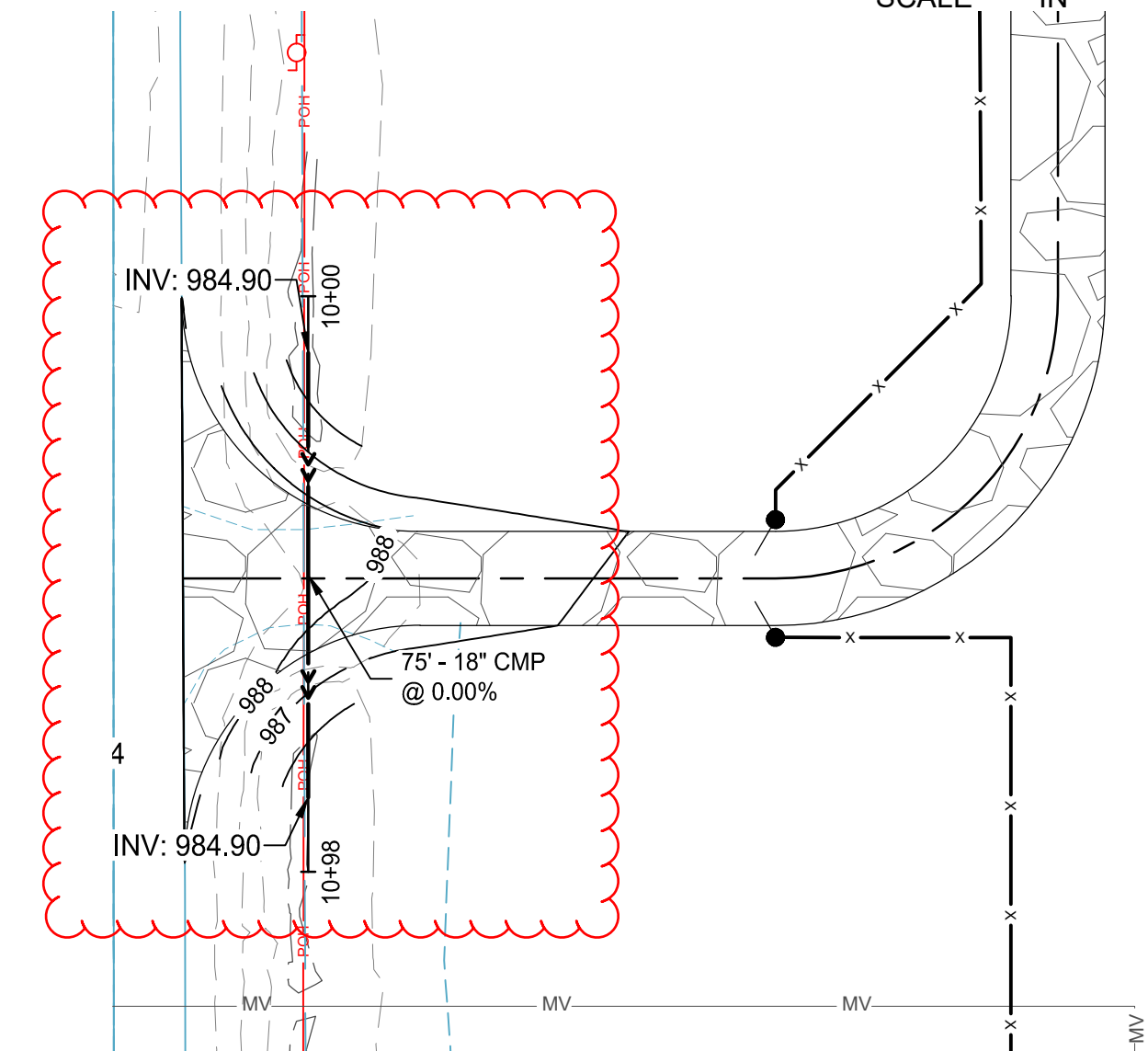
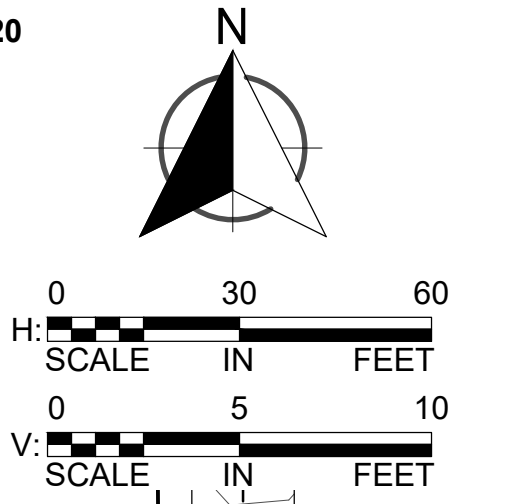
INTERSECTION CULVERT GRADING - CLVT-PRC-10

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-17



INTERSECTION CULVERT GRADING - CLVT-PRC-12

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6
FOR FULL GRADING PLAN
SEE SHEET NH-273609-14-20



NO	REVISION	ZONE	DATE	BY	CHK	ENG	NO
A	30% - BLATTNER SUBMITTAL		09-19-23	JMS	DJK	TOR	
B	60% - BLATTNER SUBMITTAL		11-27-23	JMS	JDD	EAE	
C	60% - SUBSTATION SUBMITTAL		12-01-23	JMS	JDD	EAE	
D	90% - BLATTNER SUBMITTAL		03-27-24	JMS	DJK	EAE	

REVISION	ZONE	DATE	BY	CHK	ENG

REFERENCE DRAWINGS		
DWG NO.	MANUFACTURER	DESCRIPTION

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XcelEnergy®
 NORTHERN STATES POWER COMPANY
SHERCO SOLAR III
 SHERBURNE COUNTY, MINNESOTA

DWN: JMS	DATE: 03-27-24	CHK: DJK	DATE: 03-27-24
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ENERGY SUPPLY
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UNIT 0
 CIVIL ACCESS ROADS

INTERSECTION CULVERT GRADING

NH-273609-16-4

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