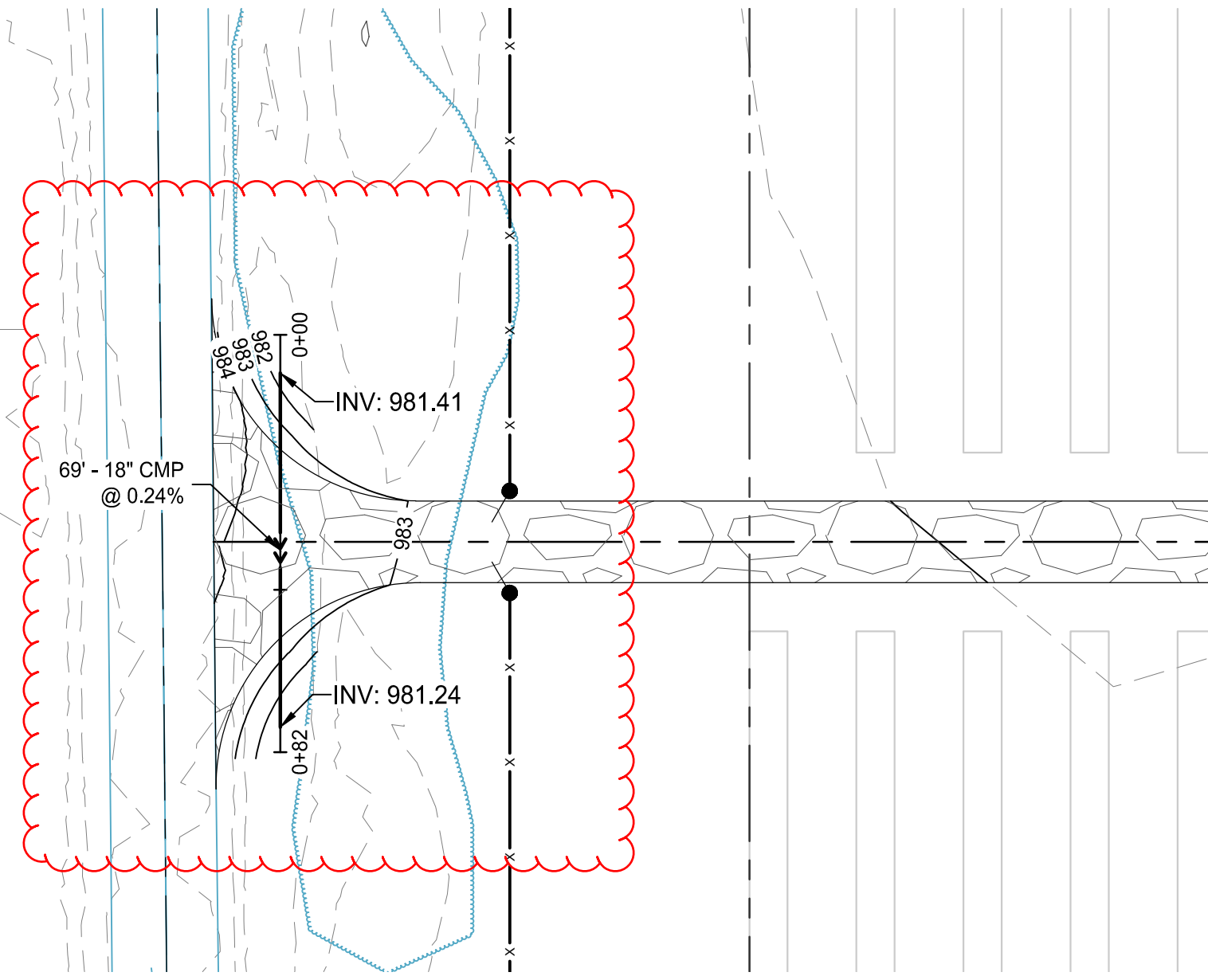
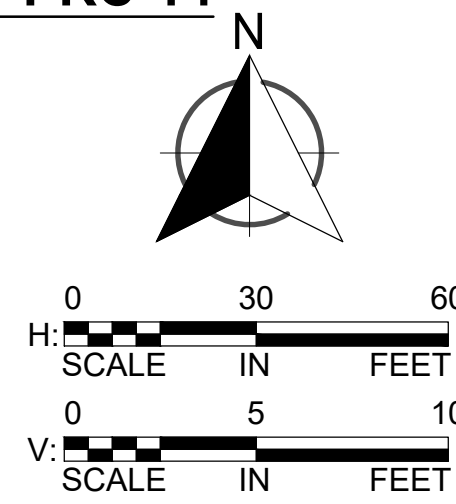


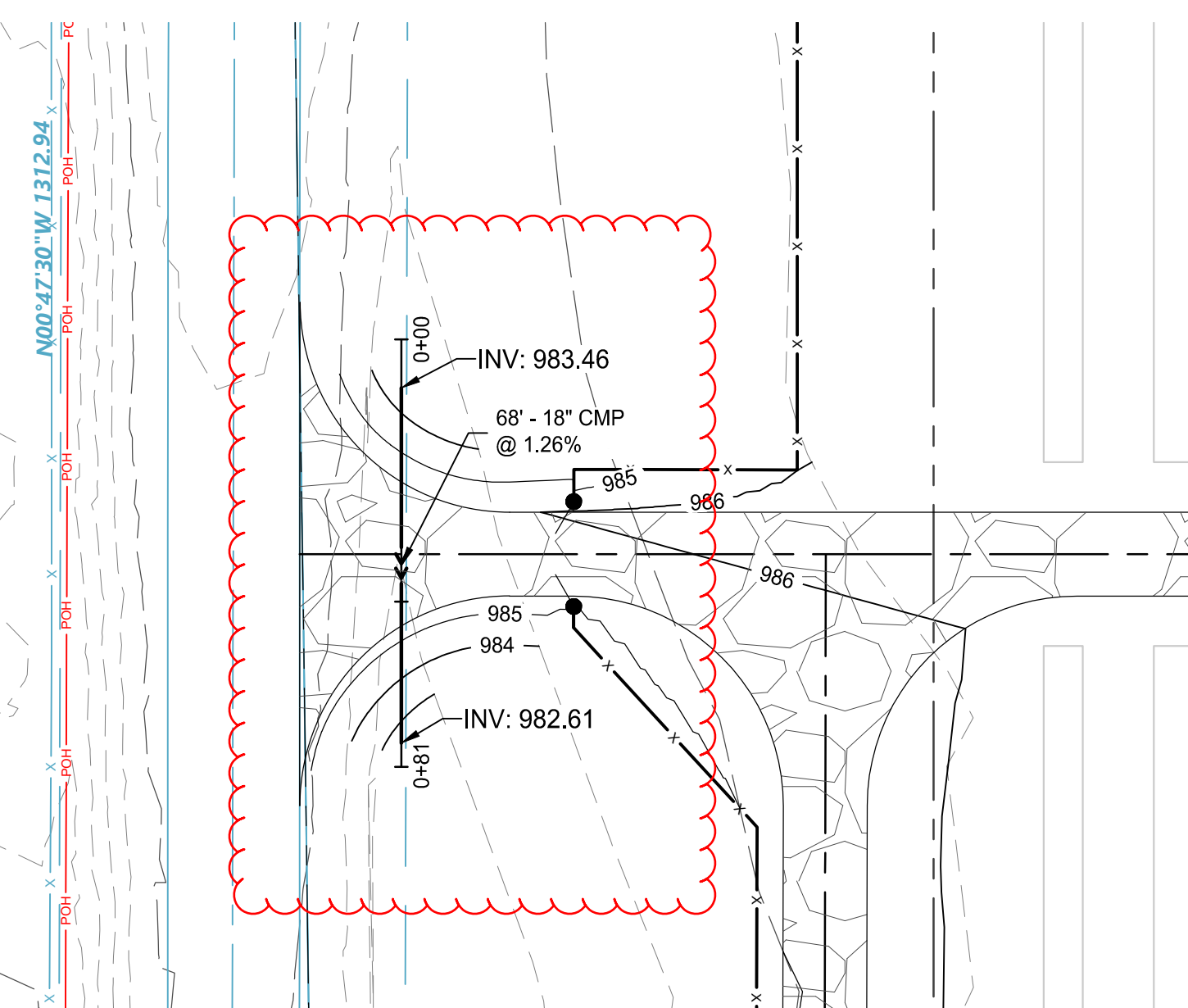
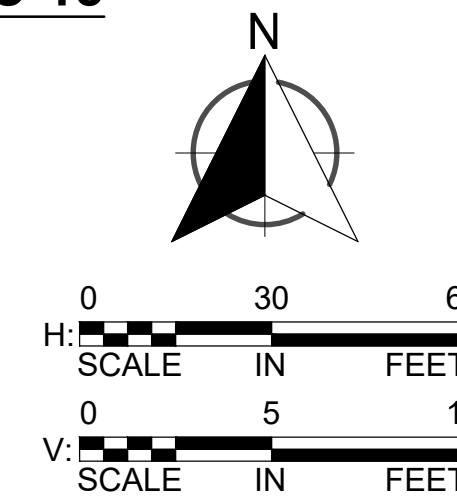
**INTERSECTION CULVERT GRADING - CLVT-PRC-14**

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6  
FOR FULL GRADING PLAN  
SEE SHEET NH-273609-14-22



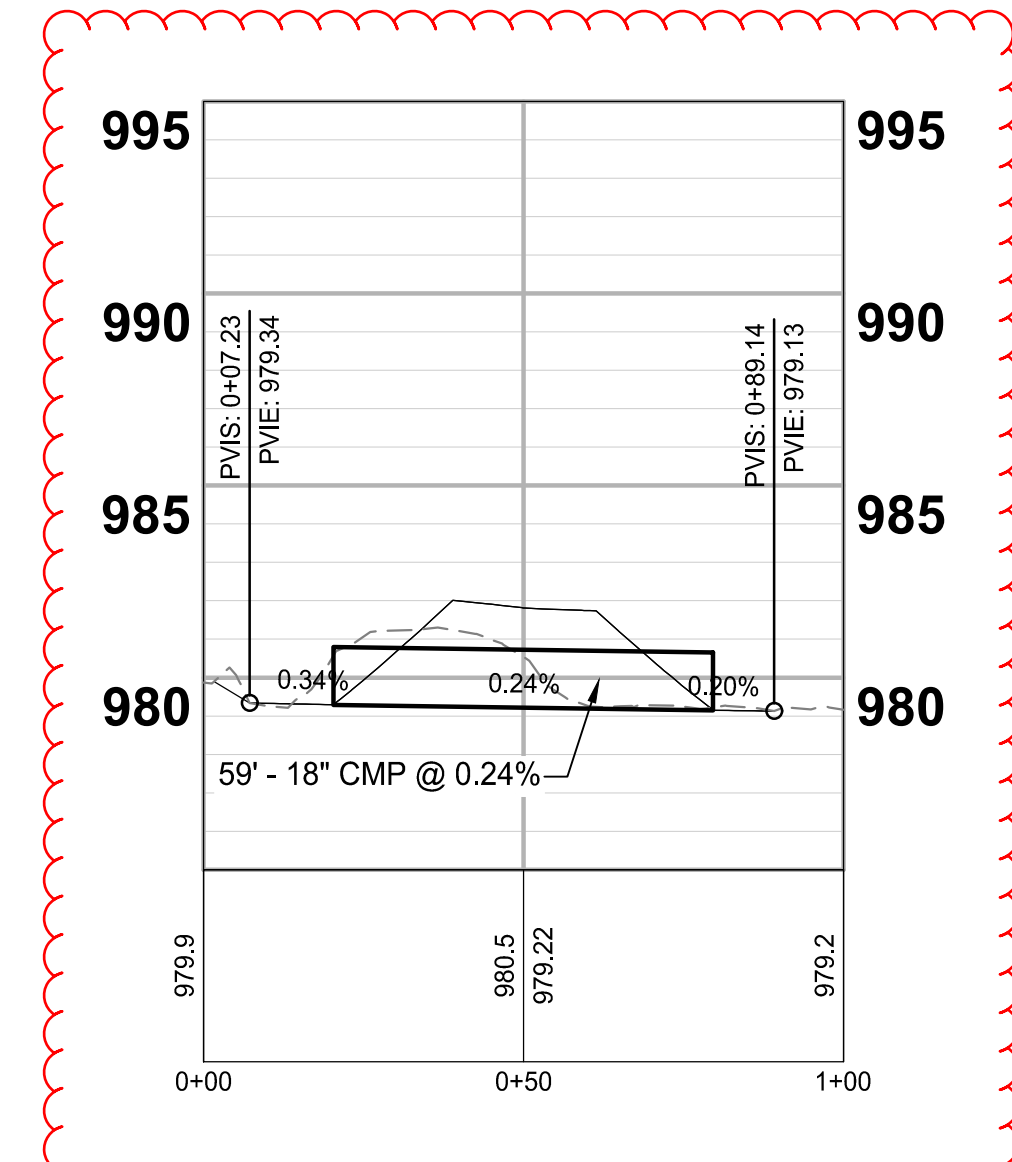
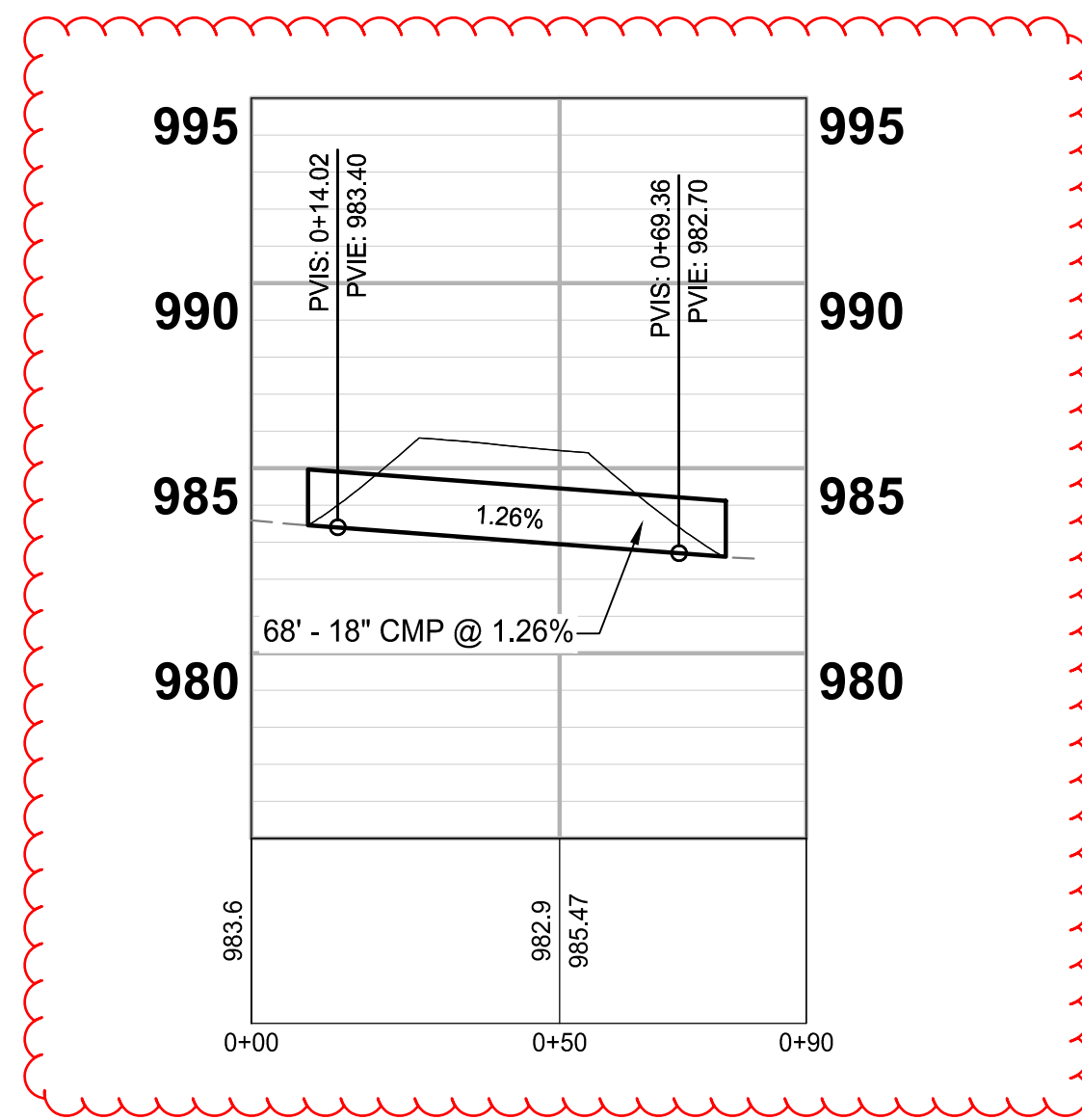
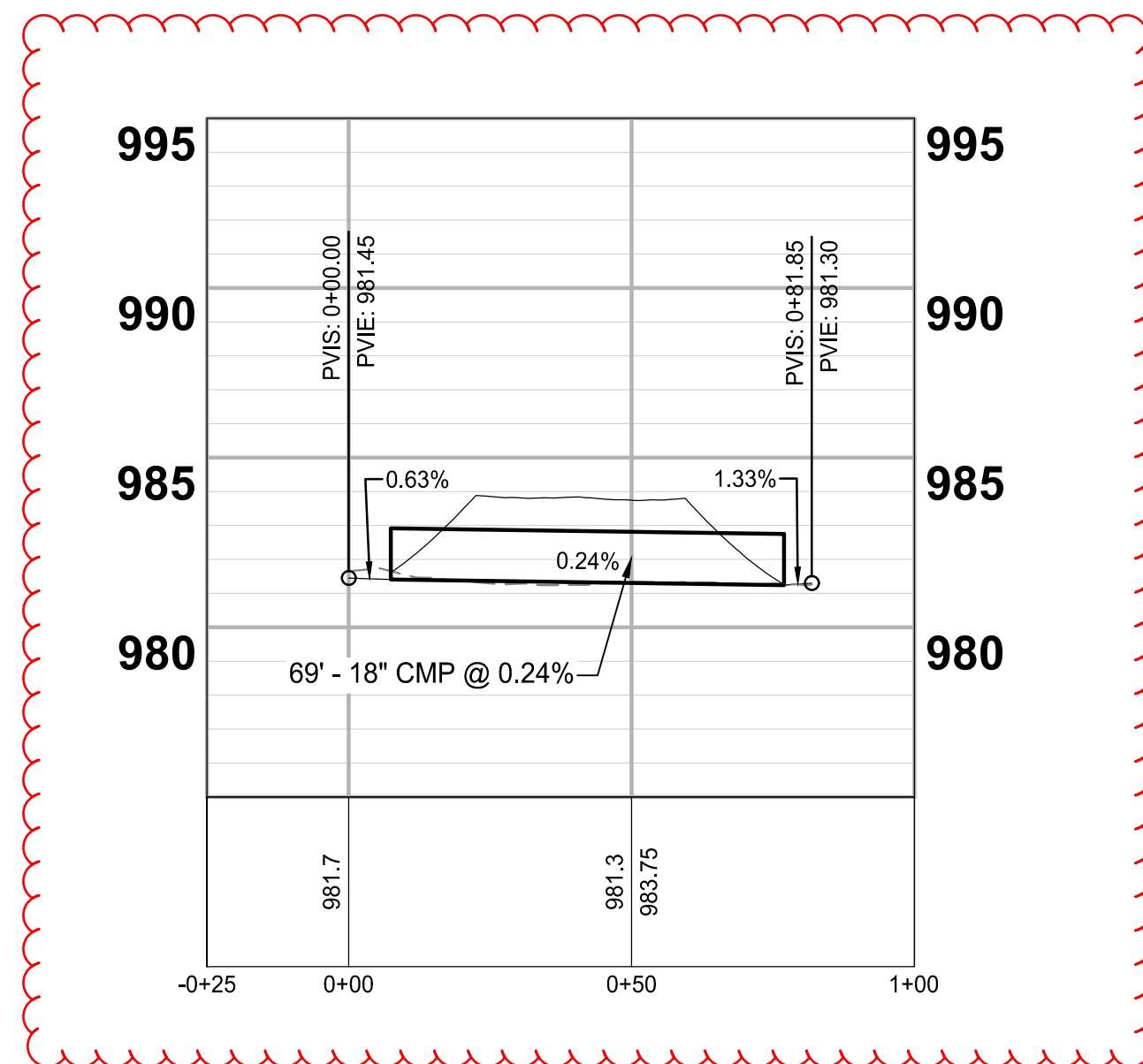
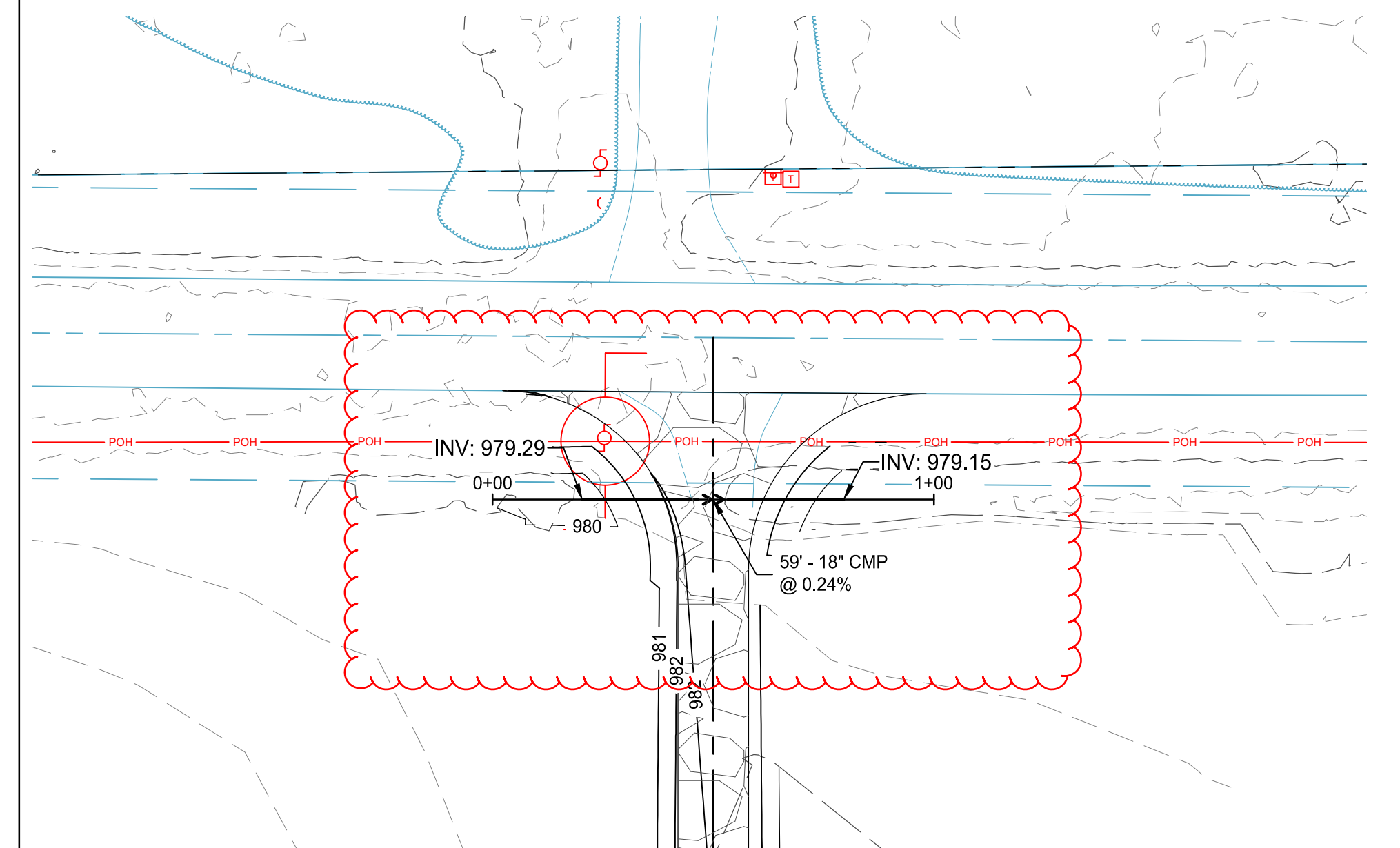
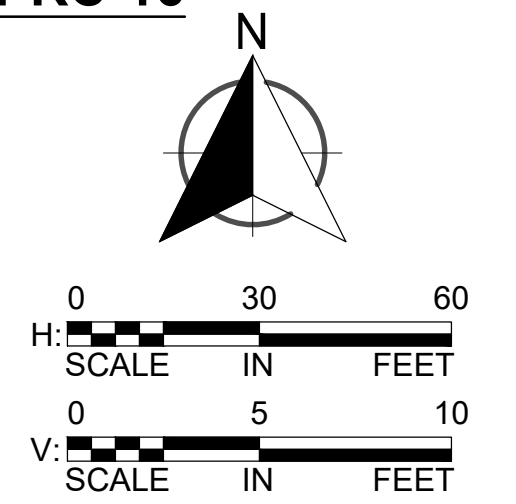
**INTERSECTION CULVERT GRADING - CLVT-PRC-15**

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6  
FOR FULL GRADING PLAN  
SEE SHEET NH-273609-14-23



**INTERSECTION CULVERT GRADING - CLVT-PRC-16**

TYPICAL SECTION PER DETAIL R1, SHEET NH-273609-6  
FOR FULL GRADING PLAN  
SEE SHEET NH-273609-14-26



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							

DWG NO.	MANUFACTURER	DESCRIPTION

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: \_\_\_\_\_  
 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: AS NOTED	

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 ENGINEERING & CONSTRUCTION

**UNIT 0**  
 CIVIL ACCESS ROADS

**INTERSECTION CULVERT GRADING**

**NH-273609-16-5**

REV  
D

c:\bms\wseing-pw-01\dms4520\023176-SHRC3-CP-CLVT-PLAN.dwg 3/27/2024 9:18:00 AM

## TEST REPORT

CLIENT DETAILS

Contact -  
 Client JINKO SOLAR CO.,LTD  
 Address CHINA  
 Telephone -  
 Facsimile -  
 Email -  
 Order Number -  
 Samples Solid waste(1)  
 Project -

LABORATORY DETAILS

Manager SGS-CSTC  
 Laboratory Environment Laboratory  
 Address 2/F, 3RD BUILDING NO. 889,  
 YISHAN ROAD, XUHUI DISTRICT,  
 SHANGHAI, CHINA  
 Telephone +86 (21) 6140 2666-2002  
 Facsimile +86 (21) 6115 2164  
 Email REPORT.ENV@SGS.COM  
 Report Number SHE23-04901 R1  
 SGS Reference 0000283215  
 Date Reported 2023/08/31  
 Analysis Date 2023/08/21 - 2023/08/31

COMMENTS

- 1.The results apply to the sample(s) as received.
- 2.The report is translated from SHE23-04901 R0.

SIGNATORIES

窦卓文

刘真

唐黎琦

Reported by

Reviewed by

Approved by



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4. 检测报告涂改无效。

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6. 送检样品的样品类型、样品名称、样品描述、项目名称等信息由客户提供，样品的代表性和真实性由委托人负责。

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### 符号表/Legend

"-" 未测试该参数或不适用/The parameter is not tested or not applicable

↑ 提高检出限/Detection limit raised

↓ 降低检出限/Detection limit lowered

ND 未检出/Not Detected



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SGS 标志

						Sample Number	23-04901.001
						Sample Name	JKMxxxN-72HL4-BDV
						Test Object	Solid waste
						Sample Description	SHES2308015982TX
						Receive Date	2023/08/21
Parameter	Method	Units	MDL	Limit	Testing Results		
Arsenic (As)	USEPA 200.8	mg/L	0.050	≤5	ND		
Barium (Ba)	USEPA 200.8	mg/L	0.010	≤100	ND		
Cadmium (Cd)	USEPA 200.8	mg/L	0.001	≤1	ND		
Chromium (Cr)	USEPA 200.8	mg/L	0.010	≤5	ND		
Lead (Pb)	USEPA 200.8	mg/L	0.010	≤5	0.025		
Selenium (Se)	USEPA 200.8	mg/L	0.050	≤1	ND		
Silver (Ag)	USEPA 200.8	mg/L	0.010	≤5	0.053		
Mercury (Hg)	USEPA 7473	mg/L	0.005	≤0.2	ND		
Benzene	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Carbon tetrachloride	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Chlorobenzene	USEPA 8260D	mg/L	0.0005	≤100	ND		
Chloroform	USEPA 8260D	mg/L	0.0005	≤6	ND		
1,4-Dichlorobenzene	USEPA 8260D	mg/L	0.0005	≤7.5	ND		
1,2-Dichloroethane	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
1,1-Dichloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND		
2-butanone(MEK)	USEPA 8260D	mg/L	0.020	≤200	ND		
Tetrachloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND		
Trichloroethene	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Vinyl chloride	USEPA 8260D	mg/L	0.0005	≤0.2	ND		
2-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND		
3&4-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND		
Methylphenol <sup>1</sup>	USEPA 8270E	mg/L	0.001	≤200	ND		
2,4-Dinitrotoluene	USEPA 8270E	mg/L	0.0005	≤0.13	ND		
Hexachlorobenzene	USEPA 8270E	mg/L	0.0005	≤0.13	ND		
Hexachlorobutadiene	USEPA 8270E	mg/L	0.0005	≤0.5	ND		
Hexachloroethane	USEPA 8270E	mg/L	0.0005	≤3	ND		
Nitrobenzene	USEPA 8270E	mg/L	0.0005	≤2	ND		
Pentachlorophenol	USEPA 8270E	mg/L	0.0025	≤100	ND		
Pyridine	USEPA 8270E	mg/L	0.002	≤5.0	ND		
2,4,5-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤400	ND		
2,4,6-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤2	ND		
Endrin	USEPA 8270E	mg/L	0.0005	≤0.02	ND		
γ-BHC	USEPA 8270E	mg/L	0.0005	≤0.4	ND		
Toxaphene	USEPA 8270E	mg/L	0.050	≤0.5	ND		
α-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND		
γ-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND		
Chlordane(Total) <sup>2</sup>	USEPA 8270E	mg/L	0.001	≤0.03	ND		
Methoxychlor	USEPA 8270E	mg/L	0.0005	≤10	ND		
Heptachlor	USEPA 8270E	mg/L	0.0005	≤0.008	ND		
2,4-D*	USEPA 8151A	mg/L	0.0005	≤10	ND		
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A	mg/L	0.0005	≤1	ND		

Remark:

- 1.Methylphenol are the sum of 2-Methylphenol and 3&4-Methylphenol.
- 2.Chlordane(Total) are the sum of α-Chlordane and γ-Chlordane.
- 3.Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)
- 4.The Limits comes from CFR(code of federal regulations) title 40 part 261.24.



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### Method List

- USEPA 200.8-1994 Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry
- USEPA 7473-2007 Metals-Hg
- USEPA 8260D-2018 VOCs
- USEPA 8270E-2018 SVOCs
- USEPA 8151A-1996 Acid Herbicides in Water by GC-MS



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**Method:USEPA 200.8-1994**

Equipment Name	Model	Equipment Number	Serial Number
ICP-MS	Agilent 7900	CHEM-998	JP16311502

**Method:USEPA 7473-2007**

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-958	16041979

**Method:USEPA 8260D-2018**

Equipment Name	Model	Equipment Number	Serial Number
PT-GC-MS	Atomx XYZ/7890B/5977A	CHEM-ENV091	CA20247008/CN13313013/US1330M207

**Method:USEPA 8270E-2018**

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

**Method:USEPA 8270E-2018**

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

**Method:USEPA 8151A-1996**

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent6890N/5973i	CHEM-126	US144004/CN10539052/US52411034



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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>					
Arsenic (As)	LB2330310	mg/L	0.050	<0.050	<0.050
Barium (Ba)	LB2330310	mg/L	0.010	<0.01	<0.010
Cadmium (Cd)	LB2330310	mg/L	0.001	<0.001	<0.001
Chromium (Cr)	LB2330310	mg/L	0.010	<0.01	<0.010
Lead (Pb)	LB2330310	mg/L	0.010	<0.01	<0.010
Selenium (Se)	LB2330310	mg/L	0.050	<0.05	<0.050
Silver (Ag)	LB2330310	mg/L	0.010	<0.010	<0.010
<b>Metals-Hg Method: USEPA 7473-2007</b>					
Mercury (Hg)	LB2329559	mg/L	0.005	<0.005	<0.005
<b>Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996</b>					
2,4-D	LB2330408	mg/L	0.0005	<0.0005	<0.0005
2,4,5-TP (Silvex, Fenopop)	LB2330408	mg/L	0.0005	<0.0005	<0.0005
<b>VOCs Method: USEPA 8260D-2018</b>					
Benzene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Carbon tetrachloride	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Chlorobenzene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Chloroform	LB2330280	mg/L	0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
1,2-Dichloroethane	LB2330280	mg/L	0.0005	<0.0005	<0.0005
1,1-Dichloroethene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
2-butanone(MEK)	LB2330280	mg/L	0.020	<0.020	<0.020
Tetrachloroethene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Trichloroethene	LB2330280	mg/L	0.0005	<0.0005	<0.0005
Vinyl chloride	LB2330280	mg/L	0.0005	<0.0005	<0.0005
<b>SVOCs Method: USEPA 8270E-2018</b>					
2-Methylphenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
3&4-Methylphenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
2,4-Dinitrotoluene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobenzene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobutadiene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Hexachloroethane	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Nitrobenzene	LB2330237	mg/L	0.0005	<0.0005	<0.0005
Pentachlorophenol	LB2330237	mg/L	0.0025	<0.0025	<0.0025



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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
<b>SVOCs Method: USEPA 8270E-2018 (continued)</b>					
Pyridine	LB2330237	mg/L	0.002	<0.002	<0.002
2,4,5-Trichlorophenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
2,4,6-Trichlorophenol	LB2330237	mg/L	0.0005	<0.0005	<0.0005
<b>SVOCs Method: USEPA 8270E-2018</b>					
Endrin	LB2330238	mg/L	0.0005	<0.0005	<0.0005
γ-BHC	LB2330238	mg/L	0.0005	<0.0005	<0.0005
Toxaphene	LB2330238	mg/L	0.050	<0.050	<0.050
α-Chlordane	LB2330238	mg/L	0.0005	<0.0005	<0.0005
γ-Chlordane	LB2330238	mg/L	0.0005	<0.0005	<0.0005
Methoxychlor	LB2330238	mg/L	0.0005	<0.0005	<0.0005
Heptachlor	LB2330238	mg/L	0.0005	<0.0005	<0.0005

The evaluation of Method Blanks (MB): All results of MB on this batch are lower than method detection limits, which meet the acceptance criteria of lab quality control.

Laboratory Control Sample(LCS)

LCS Recovery%= Result\*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range		
							Lower	Upper	
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>									
Arsenic (As)	LB2330310	mg/L	0.050	0.203	0.2	102	80%	120%	
Barium (Ba)	LB2330310	mg/L	0.010	0.228	0.2	114	80%	120%	
Cadmium (Cd)	LB2330310	mg/L	0.001	0.222	0.2	111	80%	120%	
Chromium (Cr)	LB2330310	mg/L	0.010	0.215	0.2	108	80%	120%	
Lead (Pb)	LB2330310	mg/L	0.010	0.204	0.2	102	80%	120%	
Selenium (Se)	LB2330310	mg/L	0.050	0.173	0.2	86.5	80%	120%	
Silver (Ag)	LB2330310	mg/L	0.010	0.222	0.2	111	80%	120%	
<b>Metals-Hg Method: USEPA 7473-2007</b>									
Mercury (Hg)	LB2329559	mg/L	0.005	<0.005	0.001	92.2	80%	120%	
<b>Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996</b>									
2,4-D	LB2330408	mg/L	0.0005	0.0008	0.001	75.0	70%	130%	
2,4,5-TP (Silvex, Fenopop)	LB2330408	mg/L	0.0005	0.0007	0.001	72.0	70%	130%	
<b>VOCs Method: USEPA 8260D-2018</b>									
Benzene	LB2330280	mg/L	0.0005	0.0218	0.02	109	70%	130%	



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Laboratory Control Sample(LCS)

LCS Recovery%= Result\*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range		
							Lower	Upper	
<b>VOCs Method: USEPA 8260D-2018 (continued)</b>									
Carbon tetrachloride	LB2330280	mg/L	0.0005	0.0175	0.02	87.7	70%	130%	
Chlorobenzene	LB2330280	mg/L	0.0005	0.0205	0.02	103	70%	130%	
Chloroform	LB2330280	mg/L	0.0005	0.0189	0.02	94.7	70%	130%	
1,4-Dichlorobenzene	LB2330280	mg/L	0.0005	0.0189	0.02	94.6	70%	130%	
1,2-Dichloroethane	LB2330280	mg/L	0.0005	0.0169	0.02	84.3	70%	130%	
1,1-Dichloroethene	LB2330280	mg/L	0.0005	0.0170	0.02	85.0	70%	130%	
2-butanone(MEK)	LB2330280	mg/L	0.020	<0.02	0.02	81.3	70%	130%	
Tetrachloroethene	LB2330280	mg/L	0.0005	0.0223	0.02	111	70%	130%	
Trichloroethene	LB2330280	mg/L	0.0005	0.0216	0.02	108	70%	130%	
Vinyl chloride	LB2330280	mg/L	0.0005	0.0178	0.02	89.2	70%	130%	

**SVOCs Method: USEPA 8270E-2018**

2-Methylphenol	LB2330237	mg/L	0.0005	0.0044	0.005	88.0	30%	144%
3&4-Methylphenol	LB2330237	mg/L	0.0005	0.0090	0.01	89.6	30%	141%
2,4-Dinitrotoluene	LB2330237	mg/L	0.0005	0.0044	0.005	87.6	46%	140%
Hexachlorobenzene	LB2330237	mg/L	0.0005	0.0045	0.005	89.8	61%	127%
Hexachlorobutadiene	LB2330237	mg/L	0.0005	0.0042	0.005	83.8	10%	111%
Hexachloroethane	LB2330237	mg/L	0.0005	0.0045	0.005	89.8	38%	131%
Nitrobenzene	LB2330237	mg/L	0.0005	0.0040	0.005	79.0	25%	133%
Pentachlorophenol	LB2330237	mg/L	0.0025	0.0208	0.025	83.3	35%	130%
Pyridine	LB2330237	mg/L	0.002	0.004	0.005	77.0	10%	200%
2,4,5-Trichlorophenol	LB2330237	mg/L	0.0005	0.0038	0.005	76.4	40%	140%
2,4,6-Trichlorophenol	LB2330237	mg/L	0.0005	0.0040	0.005	79.6	40%	140%

The evaluation of recoveries for Laboratory Control Samples (LCS): All recoveries of LCS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|\*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>								
Arsenic (As)	SHE23-04901.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Barium (Ba)	SHE23-04901.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-



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Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|\*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
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**Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994 (continued)**

Cadmium (Cd)	SHE23-04901.001	mg/L	0.001	<0.001	<0.001	0.0	≤20	-
Chromium (Cr)	SHE23-04901.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-
Lead (Pb)	SHE23-04901.001	mg/L	0.010	0.025	0.025	1.1	≤20	-
Selenium (Se)	SHE23-04901.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Silver (Ag)	SHE23-04901.001	mg/L	0.010	0.054	0.053	0.4	≤20	-

**Metals-Hg Method: USEPA 7473-2007**

Mercury (Hg)	SHE23-04901.001	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
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**VOCs Method: USEPA 8260D-2018**

Benzene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Carbon tetrachloride	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chloroform	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,4-Dichlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,2-Dichloroethane	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,1-Dichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
2-butanone(MEK)	SHE23-04901.001	mg/L	0.020	<0.02	<0.02	0.0	≤30	-
Tetrachloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Trichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Vinyl chloride	SHE23-04901.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-

**SVOCs Method: USEPA 8270E-2018**

2-Methylphenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
3&4-Methylphenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4-Dinitrotoluene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobenzene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobutadiene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachloroethane	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Nitrobenzene	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Pentachlorophenol	QCO23-00700.001	mg/L	0.0025	<0.0025	<0.0025	0.0	≤17.5	-
Pyridine	QCO23-00700.001	mg/L	0.002	<0.002	<0.002	0.0	≤17.5	-
2,4,5-Trichlorophenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4,6-Trichlorophenol	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

**SVOCs Method: USEPA 8270E-2018**

Endrin	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
γ-BHC	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-



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Laboratory Duplicate(DUP)

Relative deviation(RD)%=(Sample Result -Duplicate Result)\*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
<b>SVOCs Method: USEPA 8270E-2018 (continued)</b>								
Toxaphene	QCO23-00700.001	mg/L	0.050	<0.05	<0.05	0.0	≤17.5	-
α-Chlordane	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
γ-Chlordane	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Methoxychlor	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Heptachlor	QCO23-00700.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

The evaluation of Relative Deviation (RD) for Duplicates: All RD of duplicates on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Matrix Spike(MS)

MS Recovery%= ( MS Result-Sample Result ) \*100/Spike Added ( Related factor should be taken into consideration ) .

Parameter	Sample ID	Unit	MDL	Sample Result	MS Result	Spike Added	Recovery%	Control Range Lower	Control Range Upper
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>									
Arsenic (As)	SHE23-04901.001	mg/L	0.050	<0.050	0.188	0.2	93.9	70%	130%
Barium (Ba)	SHE23-04901.001	mg/L	0.010	<0.010	0.220	0.2	106	70%	130%
Cadmium (Cd)	SHE23-04901.001	mg/L	0.001	<0.001	0.191	0.2	95.7	70%	130%
Chromium (Cr)	SHE23-04901.001	mg/L	0.010	<0.010	0.186	0.2	91.7	70%	130%
Lead (Pb)	SHE23-04901.001	mg/L	0.010	0.025	0.198	0.2	86.5	70%	130%
Selenium (Se)	SHE23-04901.001	mg/L	0.050	<0.050	0.244	0.2	122	70%	130%
Silver (Ag)	SHE23-04901.001	mg/L	0.010	0.053	0.236	0.2	91.5	70%	130%

VOCs Method: USEPA 8260D-2018

Benzene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0227	0.02	114	50%	150%
Carbon tetrachloride	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0191	0.02	95.6	50%	150%
Chlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0200	0.02	99.8	50%	150%
Chloroform	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0183	0.02	91.4	50%	150%
1,4-Dichlorobenzene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0190	0.02	94.8	50%	150%
1,2-Dichloroethane	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0188	0.02	93.8	50%	150%
1,1-Dichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0164	0.02	81.8	50%	150%
Tetrachloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0203	0.02	101	50%	150%
Trichloroethene	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0203	0.02	101	50%	150%
Vinyl chloride	SHE23-04901.001	mg/L	0.0005	<0.0005	0.0161	0.02	80.6	50%	150%

The evaluation of recoveries for Matrix Spiked (MS): All recoveries for MS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.



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Matrix Spike Duplicate(MSD)

Relative deviation(RD)%=|MS Recovery% -MSD Recovery%|\*100/(MS Recovery%+MSD Recovery%).

Parameter	Sample ID	Unit	MDL	MS Recovery%	MSD Recovery%	RD%	RD Control Range%	Sur Control Range
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994

Arsenic (As)	SHE23-04901.001	mg/L	0.050	93.9	88.2	3.1	≤20	-
Barium (Ba)	SHE23-04901.001	mg/L	0.010	106	109	1.5	≤20	-
Cadmium (Cd)	SHE23-04901.001	mg/L	0.001	95.7	92.6	1.6	≤20	-
Chromium (Cr)	SHE23-04901.001	mg/L	0.010	91.7	87.0	2.6	≤20	-
Lead (Pb)	SHE23-04901.001	mg/L	0.010	86.5	81.8	2.8	≤20	-
Selenium (Se)	SHE23-04901.001	mg/L	0.050	122	108	5.9	≤20	-
Silver (Ag)	SHE23-04901.001	mg/L	0.010	91.5	89.2	1.3	≤20	-

VOCs Method: USEPA 8260D-2018

Benzene	SHE23-04901.001	mg/L	0.0005	114	126	5.3	≤30	-
Carbon tetrachloride	SHE23-04901.001	mg/L	0.0005	95.6	109	6.7	≤30	-
Chlorobenzene	SHE23-04901.001	mg/L	0.0005	99.8	113	6.3	≤30	-
Chloroform	SHE23-04901.001	mg/L	0.0005	91.4	99.9	4.4	≤30	-
1,4-Dichlorobenzene	SHE23-04901.001	mg/L	0.0005	94.8	108	6.3	≤30	-
1,2-Dichloroethane	SHE23-04901.001	mg/L	0.0005	93.8	99.4	2.9	≤30	-
1,1-Dichloroethene	SHE23-04901.001	mg/L	0.0005	81.8	76.0	3.7	≤30	-
Tetrachloroethene	SHE23-04901.001	mg/L	0.0005	101	120	8.3	≤30	-
Trichloroethene	SHE23-04901.001	mg/L	0.0005	101	116	6.7	≤30	-
Vinyl chloride	SHE23-04901.001	mg/L	0.0005	80.6	94.2	7.8	≤30	-

The evaluation of Matrix Spiked Duplicates (MSD): All recoveries for MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control. All RD for MS and MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.



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