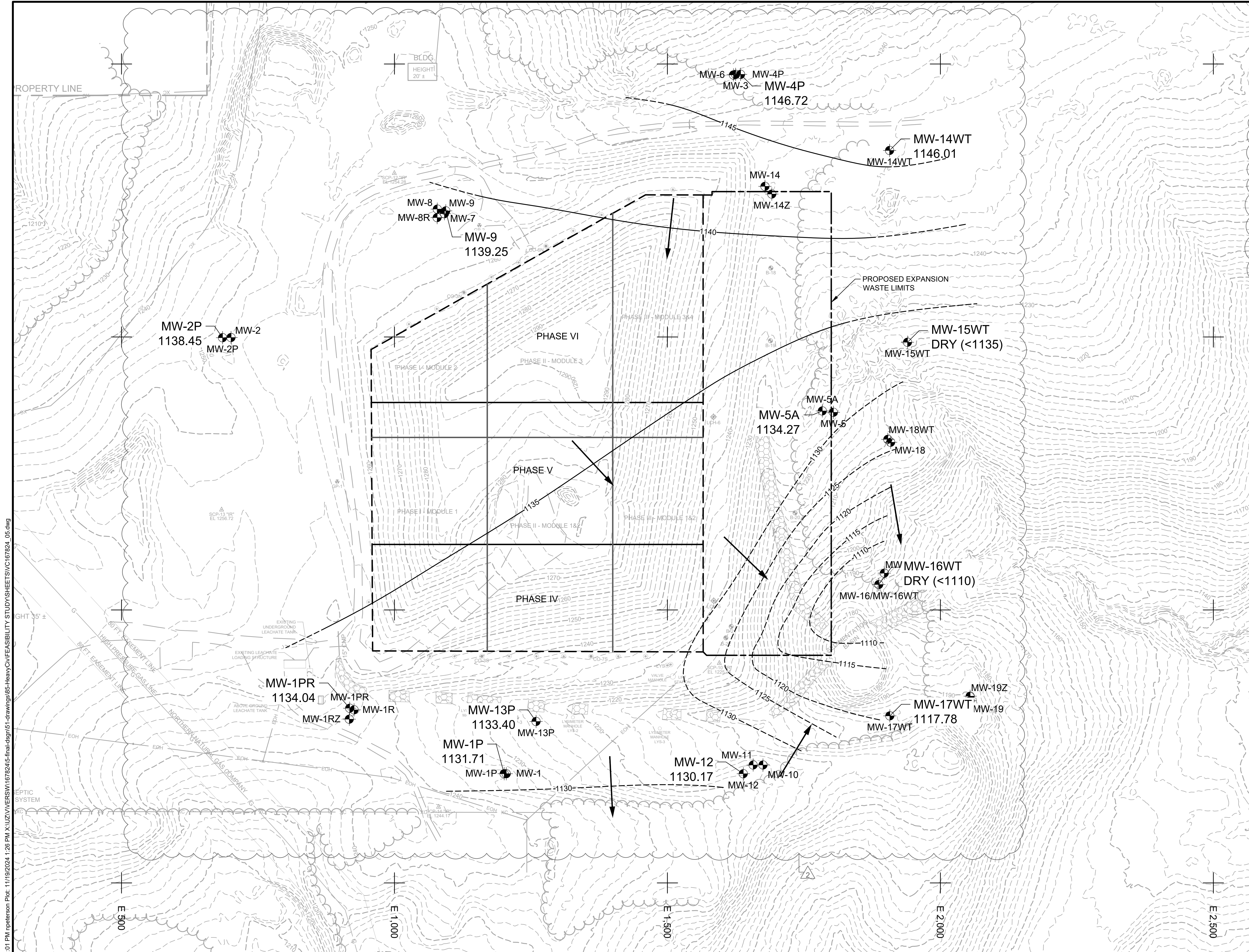


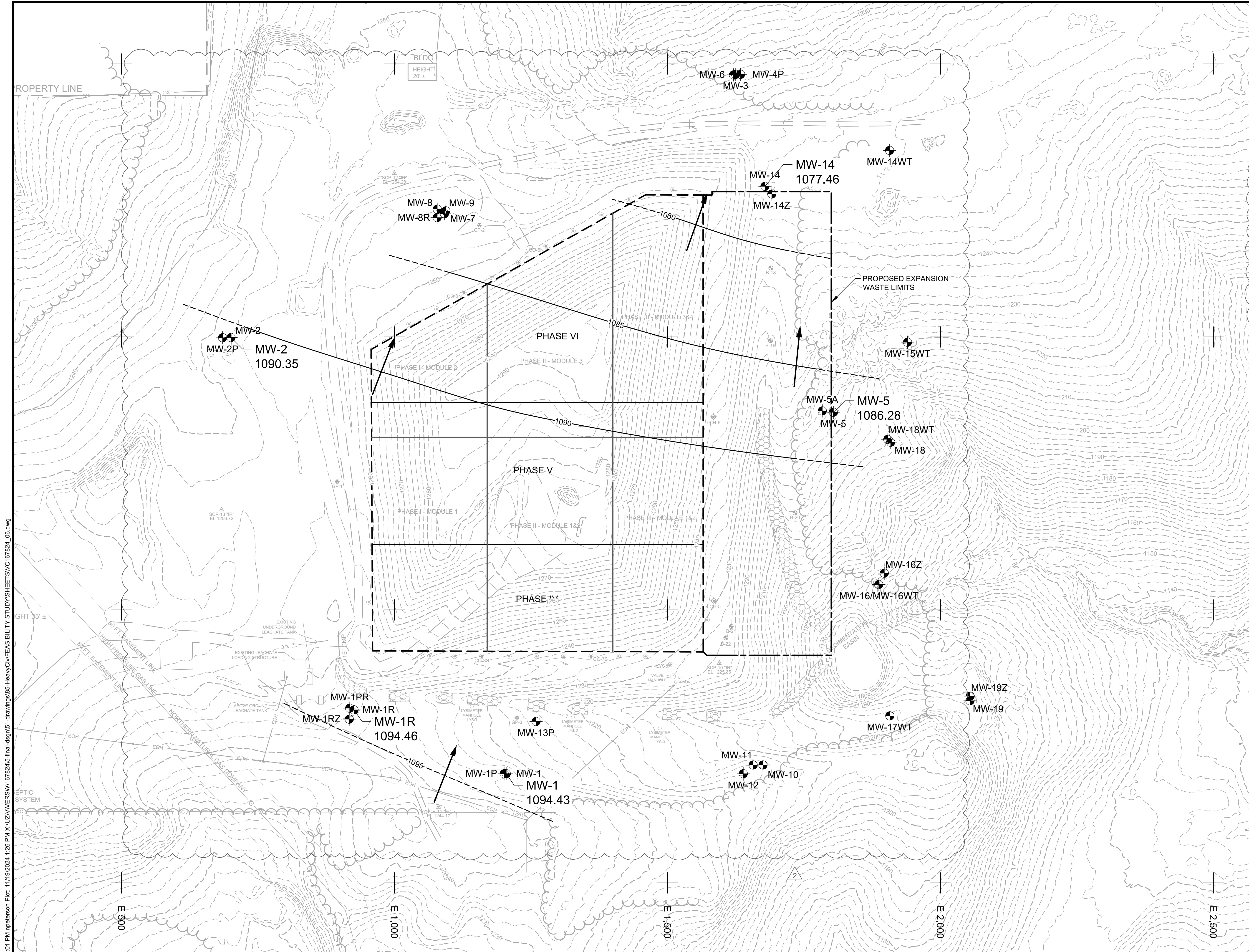


NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
2. GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.
3. THE RELATIONSHIP BETWEEN THE PERCHED WATER TABLE AND REGIONAL WATER TABLE IS ILLUSTRATED WITHIN THE GEOLOGICAL CROSS SECTIONS (PLAN SHEET 11 THROUGH 22).

LEGEND:

- MW-9 1139.07
- STATIC WATER ELEVATION - FT (JANUARY 24, 2023)
- MW-9
- EXISTING MONITORING WELL
- 1145
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW LINE
- PROPOSED WASTE LIMITS
- ACTIVE WASTE LIMITS

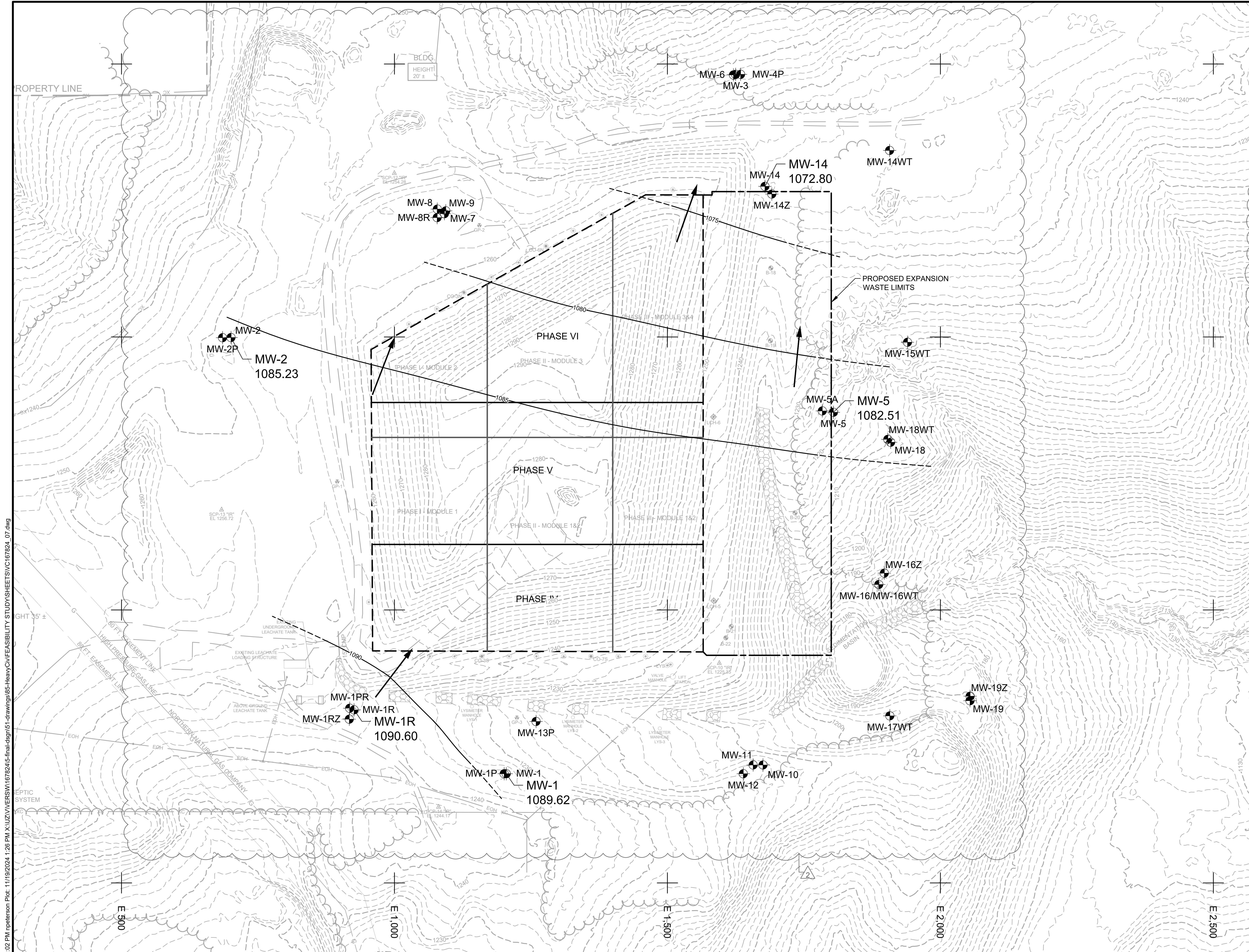


NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
2. GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.
3. MONITORING WELLS MW-1, MW-5 AND MW-16 HAD WATER LEVELS SIGNIFICANTLY ABOVE THE SCREEN INTERVAL DURING THIS MONITORING EVENT BUT AFTER FURTHER EVALUATION ARE STILL CONSIDERED REPRESENTATIVE OF REGIONAL WATER TABLE CONDITIONS.
4. THE RELATIONSHIP BETWEEN THE PERCHED WATER TABLE AND REGIONAL WATER TABLE IS ILLUSTRATED WITHIN THE GEOLOGICAL CROSS SECTIONS (PLAN SHEET 11 THROUGH 22).

LEGEND:

- STATIC WATER ELEVATION - FT (MAY 30, 2023)
- EXISTING MONITORING WELL
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW LINE
- PROPOSED WASTE LIMITS
- ACTIVE WASTE LIMITS



- NOTES:
1. TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
 2. GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.
 3. MONITORING WELLS MW-1, MW-5 AND MW-16 HAD WATER LEVELS SIGNIFICANTLY ABOVE THE SCREEN INTERVAL DURING THIS MONITORING EVENT BUT AFTER FURTHER EVALUATION ARE STILL CONSIDERED REPRESENTATIVE OF REGIONAL WATER TABLE CONDITIONS.
 4. THE RELATIONSHIP BETWEEN THE PERCHED WATER TABLE AND REGIONAL WATER TABLE IS ILLUSTRATED WITHIN THE GEOLOGICAL CROSS SECTIONS (PLAN SHEET 11 THROUGH 22).

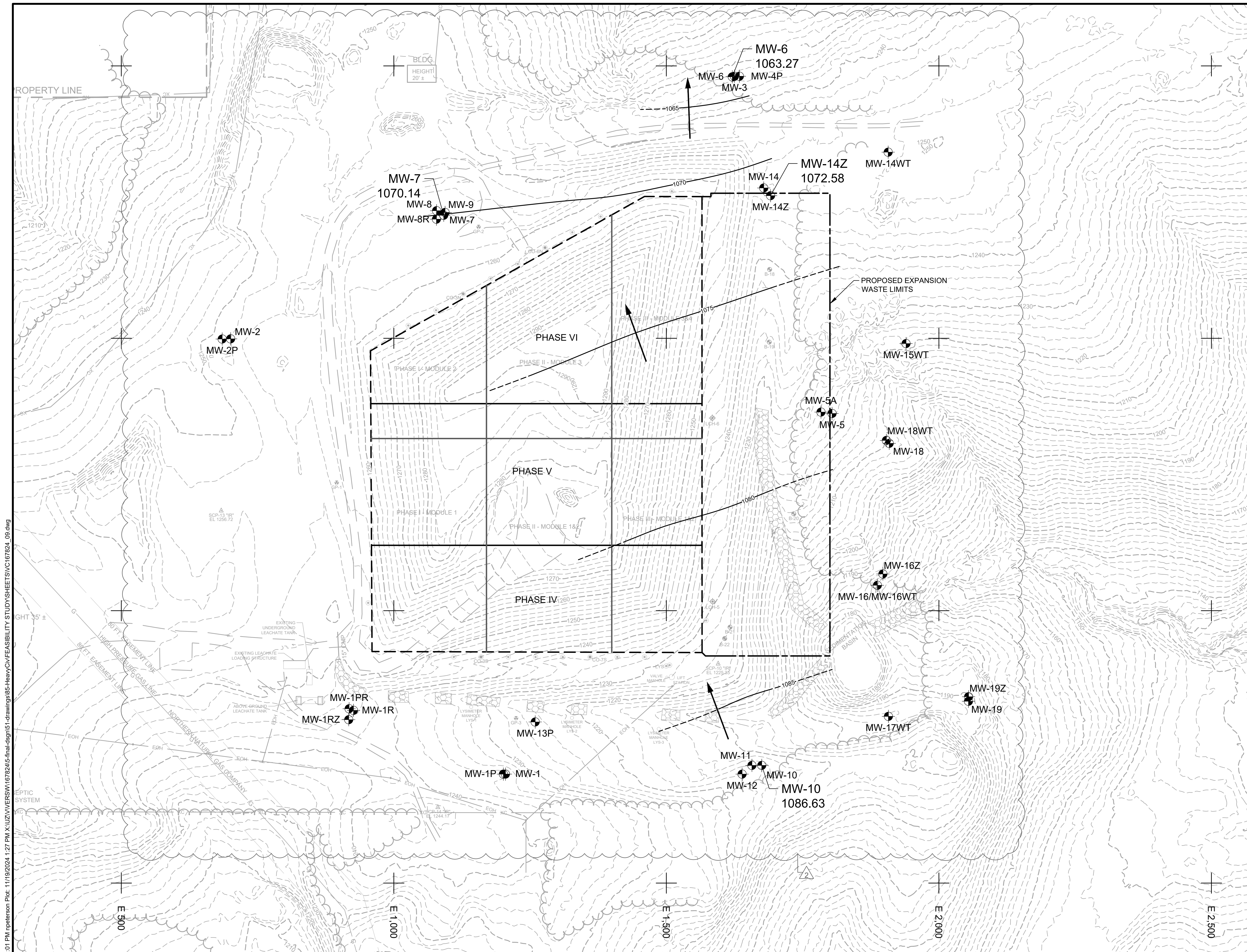
LEGEND:

- Static Water Elevation - FT (January 24, 2023)
- Existing Monitoring Well
- Groundwater Contour (Dashed Where Inferred)
- Groundwater Flow Line
- Proposed Waste Limits
- Active Waste Limits

Save: 11/19/2024 1:02 PM upeterson Plot: 11/19/2024 1:26 PM X:\L\Z\UNIVERS\W167824\5-final-dgn\51-drawings\95-Heavy\CV\FEASIBILITY STUDY\SH167824_07.dwg



Save: 11/19/2024 1:01 PM upeterson Plot: 11/19/2024 1:27 PM X:\L2\UNIVERS\W167824\5-final-dgn\51-drawings\95-Heavy\CV\FEASIBILITY STUDY\51-SHEET\SV\CV167824_09.dwg

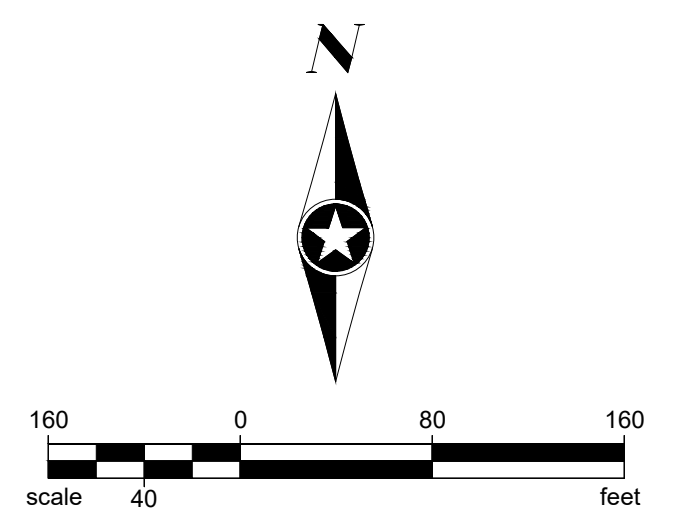


NOTES:

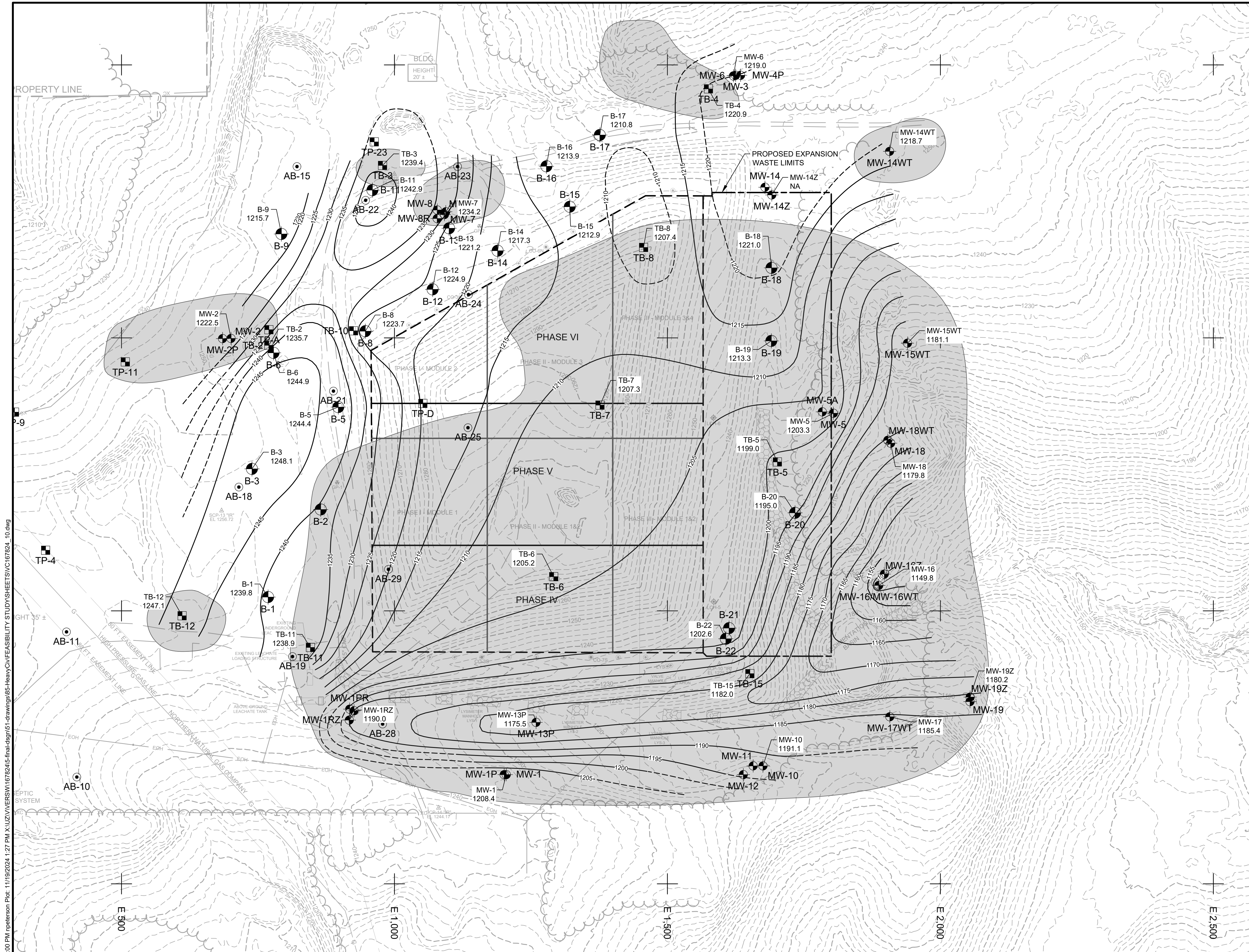
1. TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
2. GROUNDWATER CONTOUR INTERVAL IS 5-FOOT.

LEGEND:

- MW-14Z
1072.58
- STATIC WATER ELEVATION - FT
(MAY 30, 2023)
- MW-9
- EXISTING MONITORING WELL
- 1075
- GROUNDWATER CONTOUR
(DASHED WHERE INFERRED)
- GROUNDWATER FLOW LINE
- PROPOSED WASTE LIMITS
- ACTIVE WASTE LIMITS



SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	PLANS PREPARED BY:	PLANS PREPARED FOR:	VERNON COUNTY LANDFILL FEASIBILITY STUDY	9
Drawn By	NRP	1	ADDENDUM NO. 1	11/19/2024				329 JAY STREET	VERNON COUNTY SOLID WASTE DEPT		
Designed By	TTR		ISSUED FOR REGULATORY REVIEW	09/11/2023				SUITE 301	53705 CTH LF	LOWER POTENTIOMETRIC MAP (MAY 2023)	
Checked By	DRH							LA CROSSE, WI 54601-4034	VIROQUA, WISCONSIN		of 36
								PHONE: 1.608.782.3161			



- NOTES:
- TOPOGRAPHIC CONTOUR INTERVAL IS 10-FOOT MAJOR AND 2-FOOT MINOR.
 - BEDROCK CONTOUR INTERVAL IS 5-FOOT.
- LEGEND:
- MW-14WT 1218.7 BEDROCK ELEVATION
 - 1215 TOP OF BEDROCK CONTOUR (DASHED WHERE INFERRED)
 - MW-14Z MONITORING WELL
 - B-21 SOIL BORING
 - TB-15 TEST BORING
 - AREA WHERE UPPERMOST BEDROCK SURFACE IS SAPROLITE
 - PROPOSED WASTE LIMITS
 - ACTIVE WASTE LIMITS

Save: 11/19/2024 1:00 PM upeterson Plot: 11/19/2024 1:27 PM X:\LZU\UNIVERS\W167824\5-final-dgn\51-drawings\95-Heavy\CV\FEASIBILITY STUDY\51-SHEET\SV\CV167824_10.dwg

SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP	1	ADDENDUM NO. 1	11/19/2024			
Designed By	TTR		ISSUED FOR REGULATORY REVIEW	09/11/2023			
Checked By	DRH						

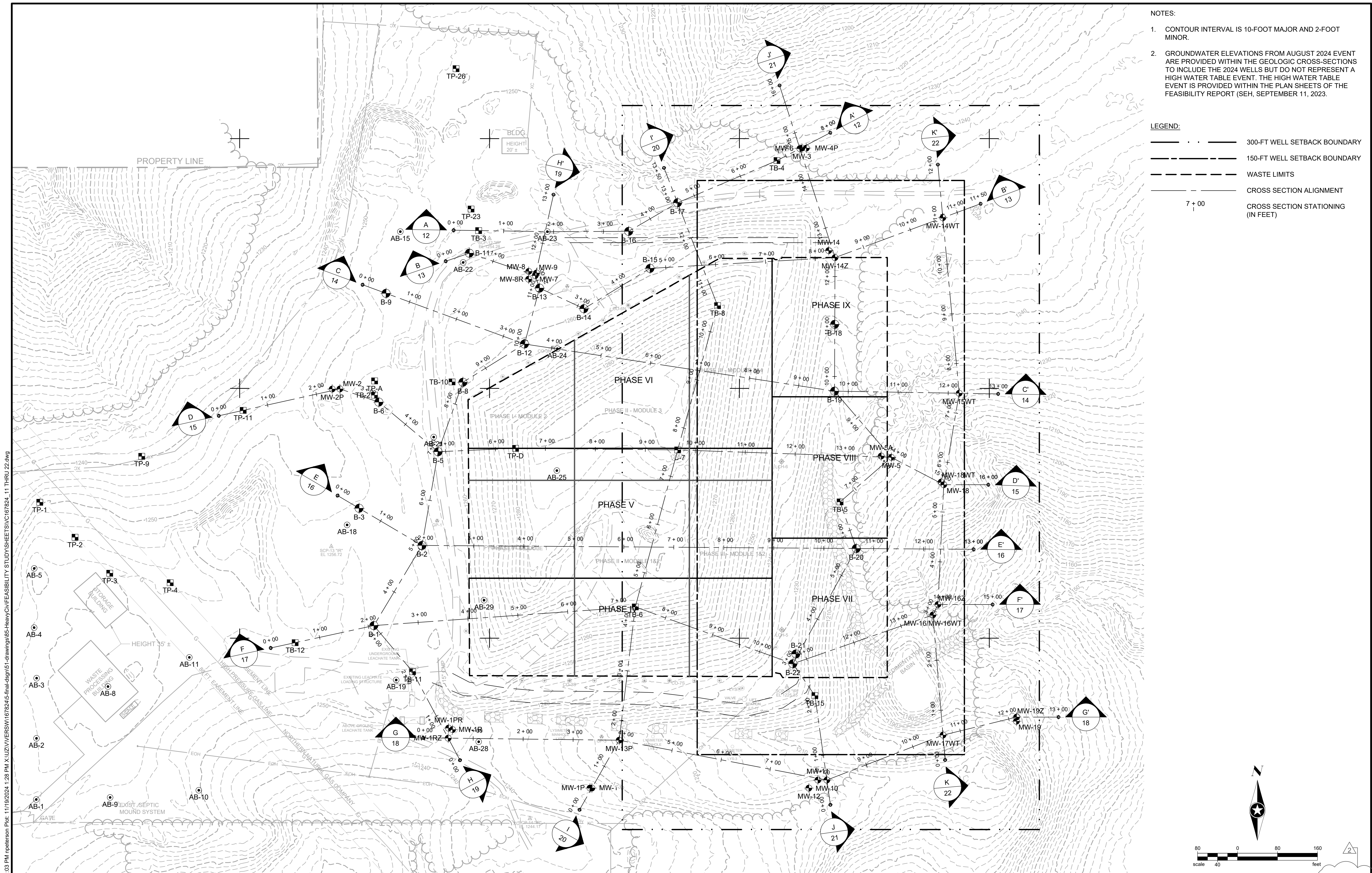


PLANS PREPARED BY:
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161

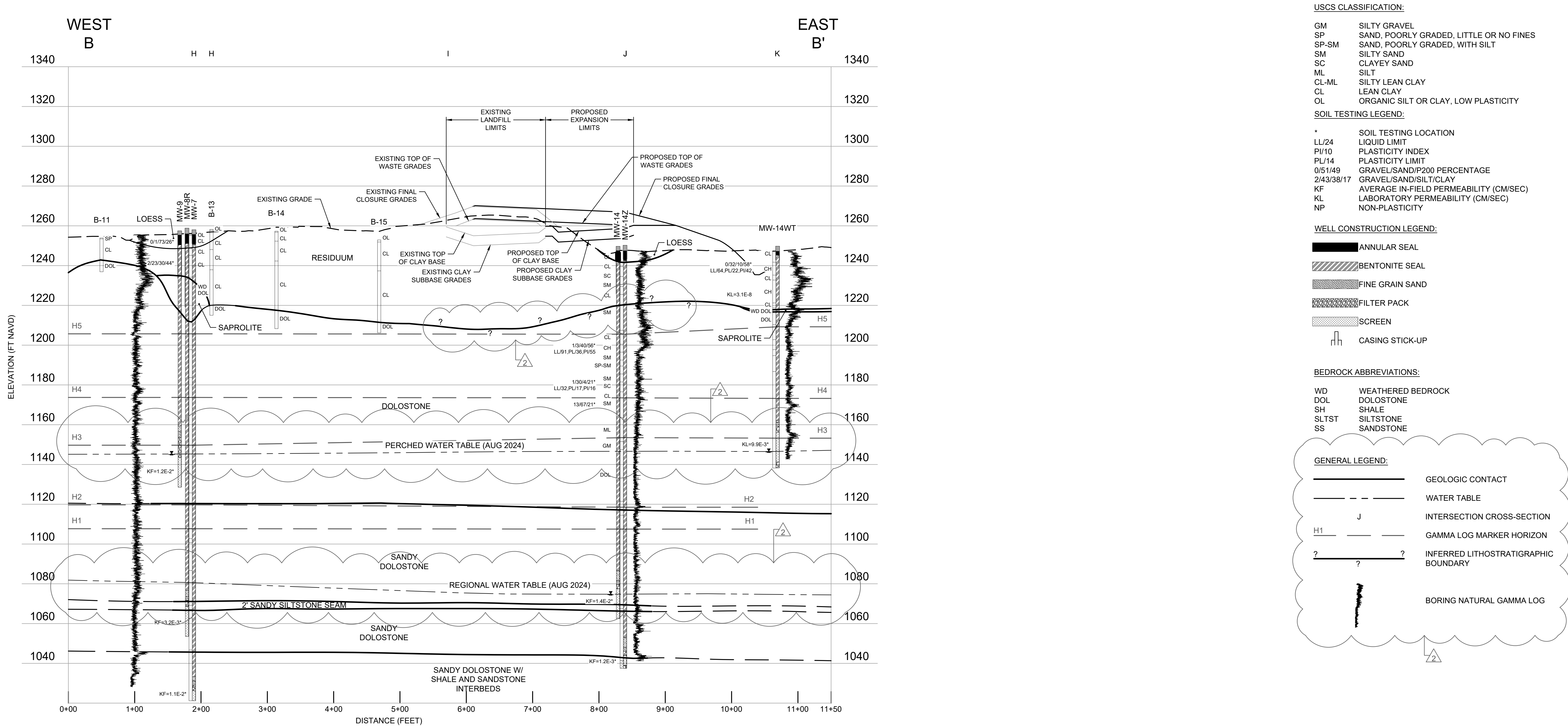
PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
BEDROCK SURFACE MAP

Save: 11/19/2024 1:03 PM upeterson Plot: 11/19/2024 1:28 PM X:\UZUN\VERSW\167824\5-final-dgn\51-drawings\95-Heavy CW\FEASIBILITY STUDY\SHEET\SV\167824_11 THRU 22.dwg



Save: 11/19/2024 1:03 PM mpterson Plot: 11/19/2024 1:28 PM X:\UZUNIVERSITY\167824\5-final-dgn\51-drawings\55-Heavy Civil\Feasibility Study\Sheet\SVIC167824_11 THRU 22.dwg



USCS CLASSIFICATION:	
GM	SILTY GRAVEL
SP	SAND, POORLY GRADED, LITTLE OR NO FINES
SP-SM	SAND, POORLY GRADED, WITH SILT
SM	SILTY SAND
SC	CLAYEY SAND
ML	SILT
CL-ML	SILTY LEAN CLAY
CL	LEAN CLAY
OL	ORGANIC SILT OR CLAY, LOW PLASTICITY
SOIL TESTING LEGEND:	
*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
2/43/38/17	GRAVEL/SAND/SILT/CLAY
KF	AVERAGE IN-FIELD PERMEABILITY (CM/SEC)
KL	LABORATORY PERMEABILITY (CM/SEC)
NP	NON-PLASTICITY

WELL CONSTRUCTION LEGEND:

	ANNULAR SEAL
	BENTONITE SEAL
	FINE GRAIN SAND
	FILTER PACK
	SCREEN
	CASING STICK-UP

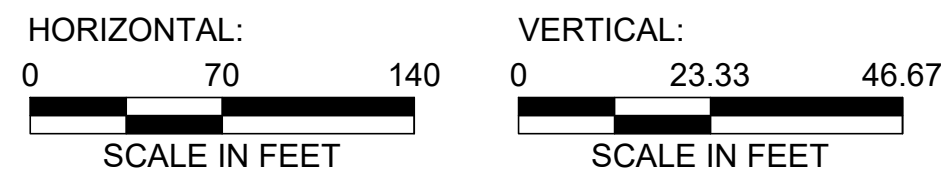
BEDROCK ABBREVIATIONS:

WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:

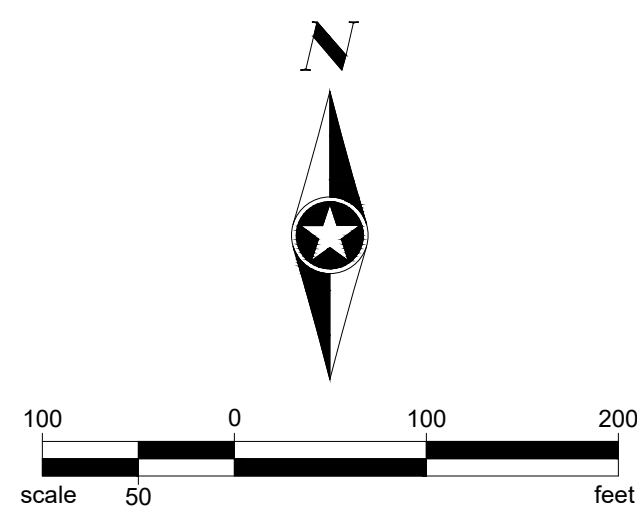
	GEOLOGIC CONTACT
	WATER TABLE
	INTERSECTION CROSS-SECTION
	GAMMA LOG MARKER HORIZON
	INFERRED LITHOSTRATIGRAPHIC BOUNDARY
	BORING NATURAL GAMMA LOG

GEOLOGIC CROSS SECTION B-B'

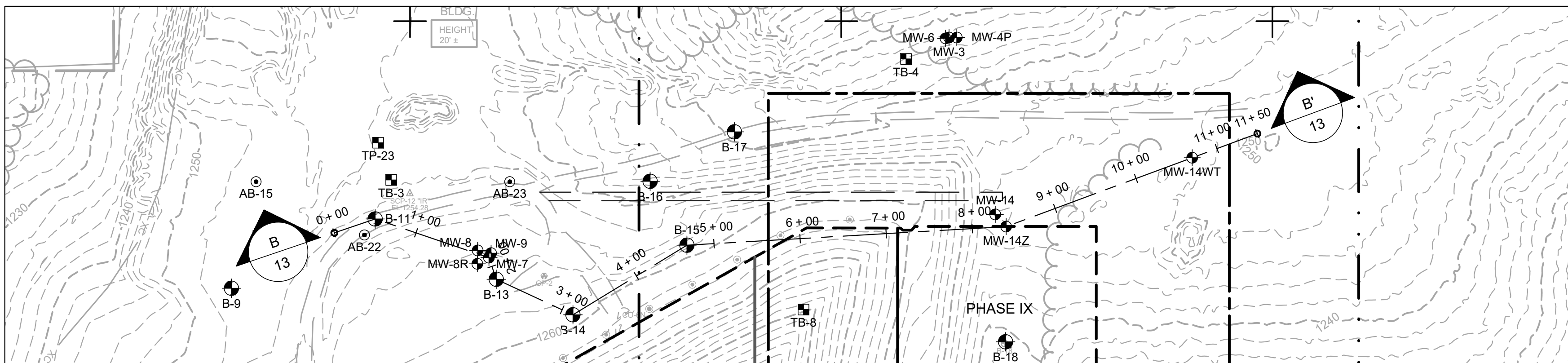


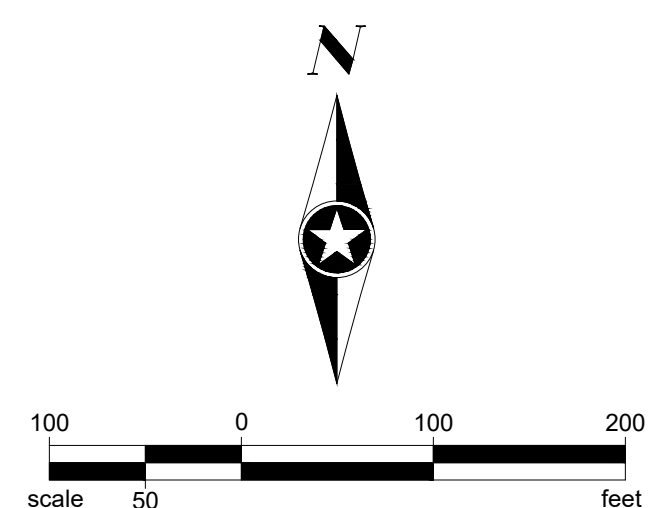
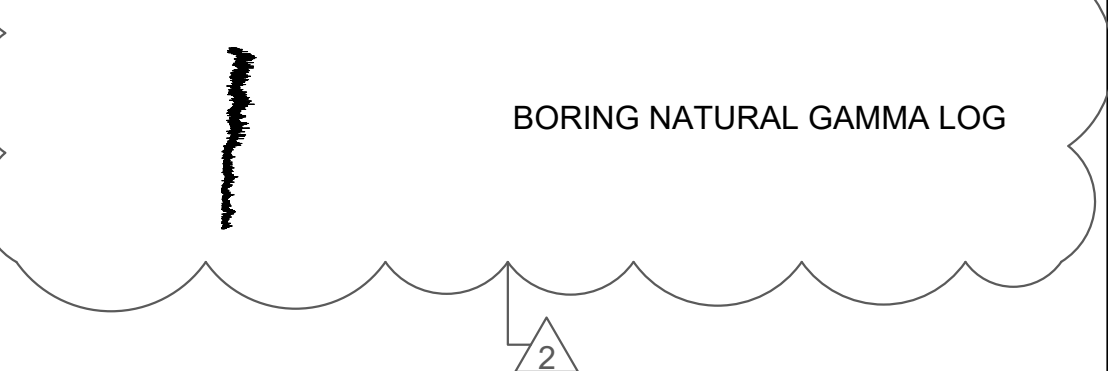
NOTES:

- CONTOUR INTERVAL IS 2-FOOT.
- GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.

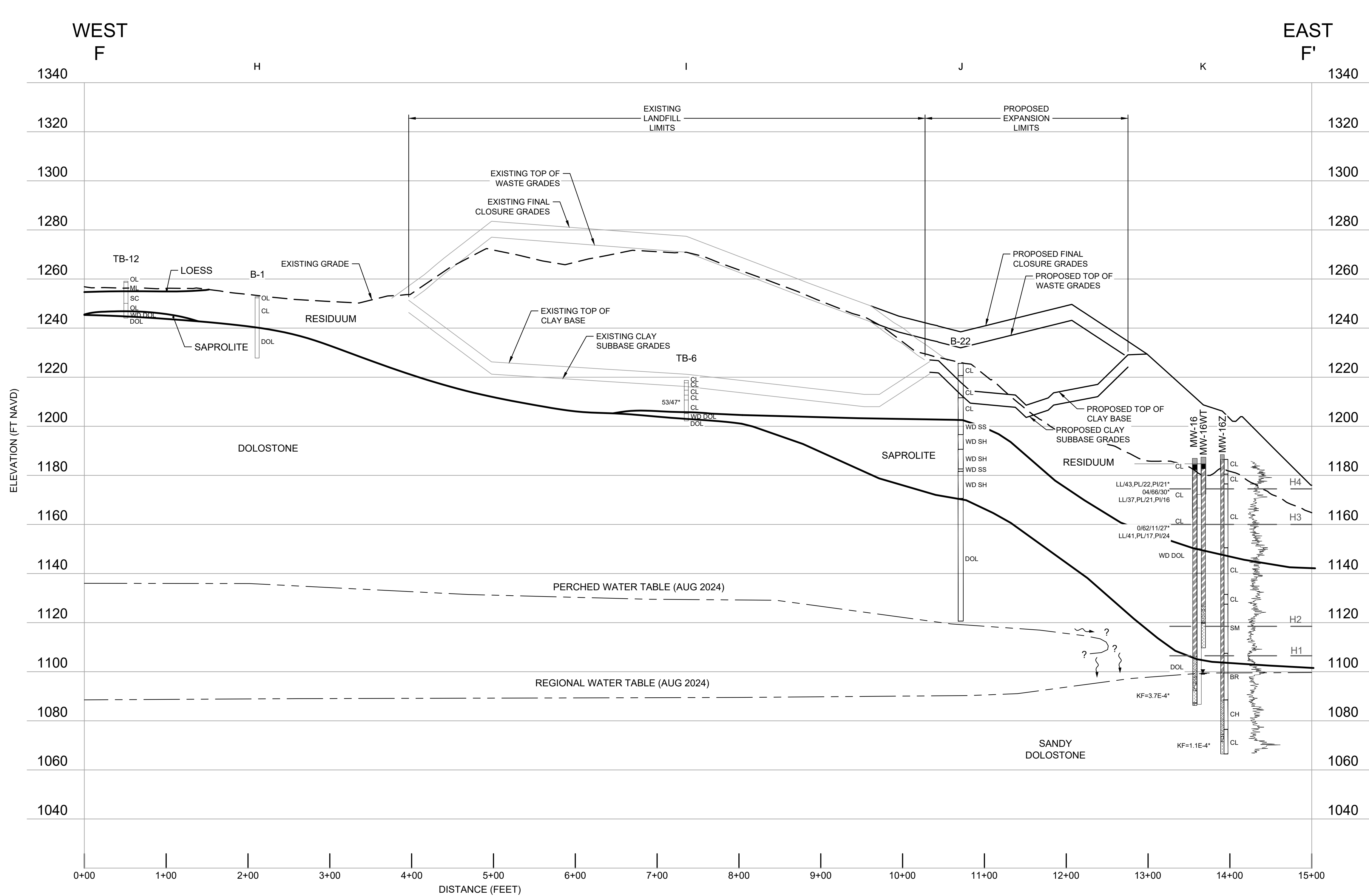


LOCATION KEY:





Save: 11/19/2024 1:03 PM mpterson Plot: 11/19/2024 1:29 PM X:\UZUNIVERS\167824\5-final-dgn\51-drawings\55-Heavy CV\FEASIBILITY STUDY\SHEET\SV\167824_11 THRU 22.dwg



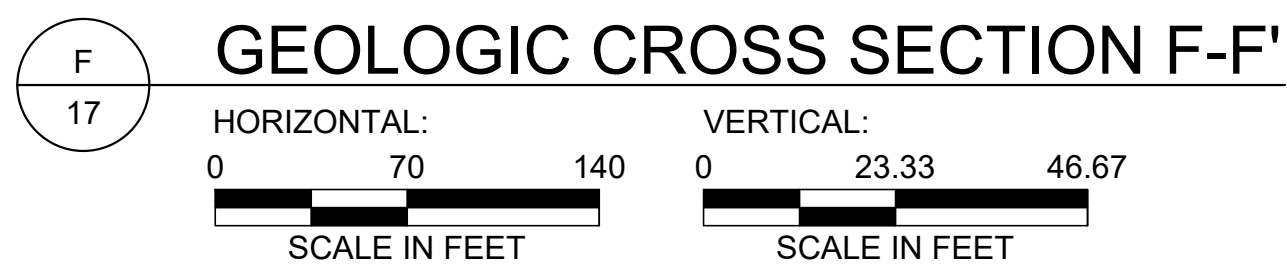
USCS CLASSIFICATION:	
SP	SAND, POORLY GRADED, LITTLE OR NO FINES
SP-SM	SAND, POORLY GRADED, WITH SILT
SM	SILTY SAND
SC	CLAYEY SAND
ML	SILT
CL-ML	SILTY LEAN CLAY
CL	LEAN CLAY
OL	ORGANIC SILT OR CLAY, LOW PLASTICITY

SOIL TESTING LEGEND:	
*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
2/43/38/17	GRAVEL/SAND/SILT/CLAY
KF	AVERAGE IN-FIELD PERMEABILITY (CM/SEC)
KL	LABORATORY PERMEABILITY (CM/SEC)
NP	NON-PLASTICITY

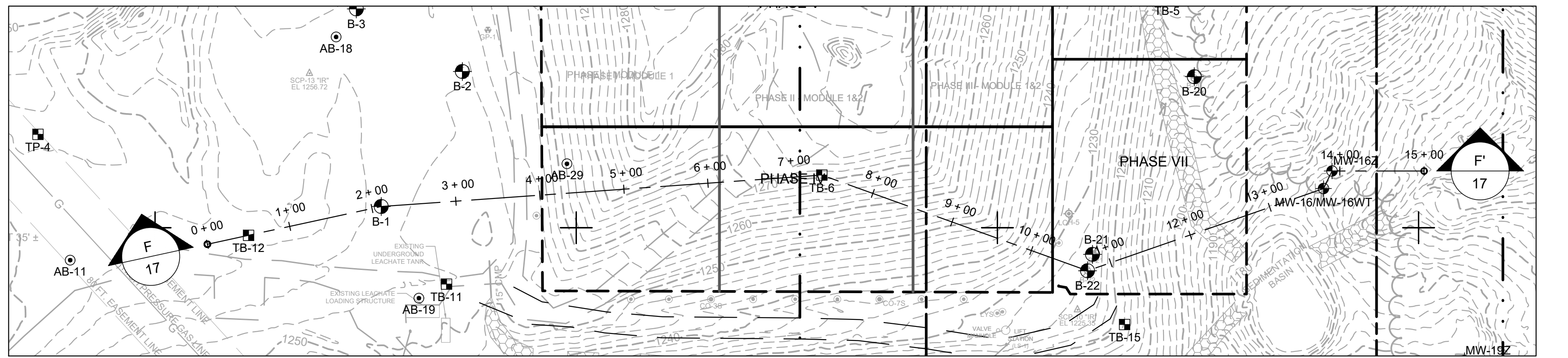
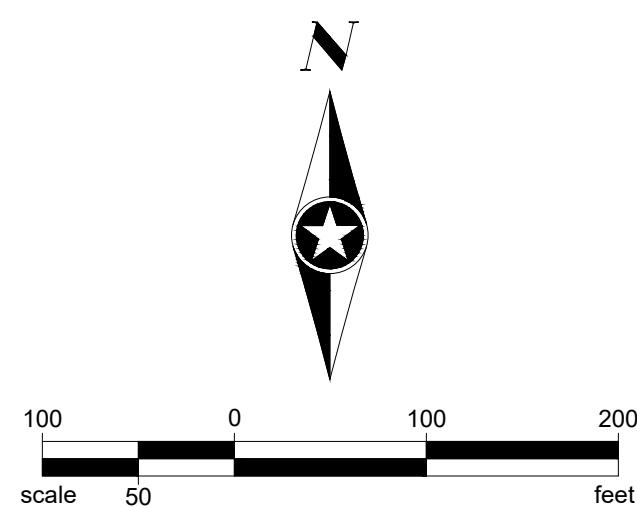
WELL CONSTRUCTION LEGEND:	
	ANNULAR SEAL
	BENTONITE SEAL
	FINE GRAIN SAND
	FILTER PACK
	SCREEN
	CASING STICK-UP

BEDROCK ABBREVIATIONS:	
WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:	
	GEOLOGIC CONTACT
	WATER TABLE
	INTERSECTION CROSS-SECTION
	GAMMA LOG MARKER HORIZON
	INFERRED LITHOSTRATIGRAPHIC BOUNDARY
	BORING NATURAL GAMMA LOG
	SATURATED/UNSATURATED GROUNDWATER FLOW



- NOTES:**
1. CONTOUR INTERVAL IS 2-FOOT.
 2. GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.



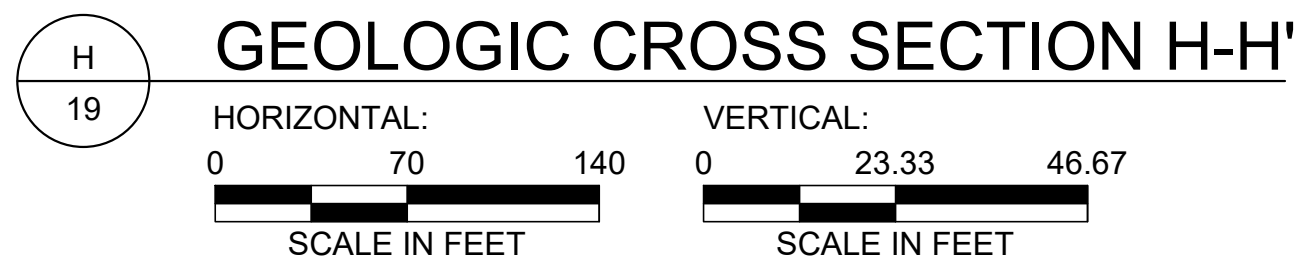
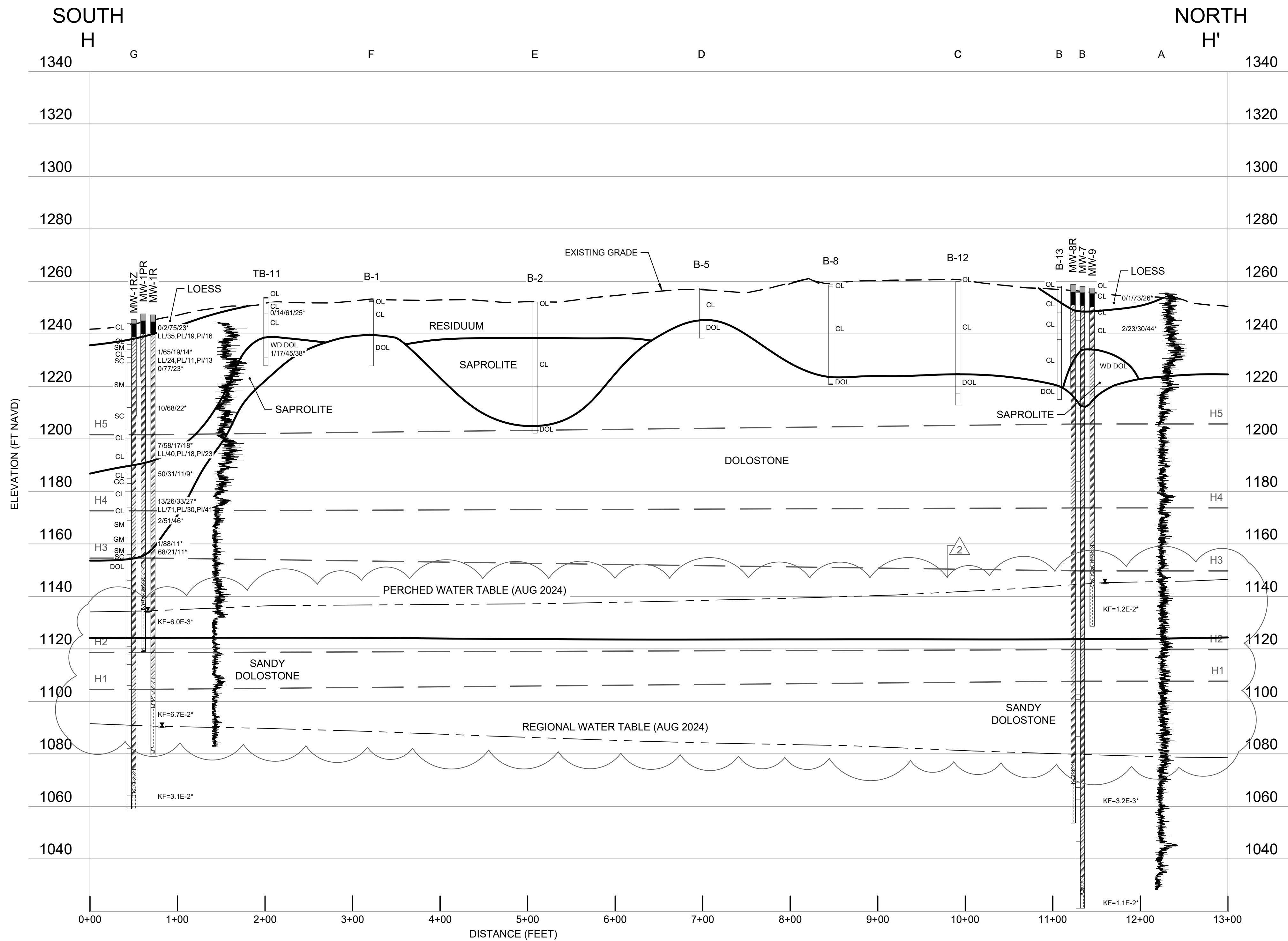
SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP						
Designed By	TTR	2	ADDENDUM NO. 1	11/19/2024			
Checked By	DRH	1	ISSUED FOR REGULATORY REVIEW	09/11/2023			

SEH
PLANS PREPARED BY:
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161

PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
GEOLOGIC CROSS SECTION F-F'

Save: 11/19/2024 1:03 PM rpterson Plot: 11/19/2024 1:29 PM X:\UZV\VERSW\167824\5-final-dgn\51-drawings\05-Heavy CV\FEASIBILITY STUDY\SHEET\SV\167824_11 THRU 22.dwg



- NOTES:
- CONTOUR INTERVAL IS 2-FOOT.
 - GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.

USCS CLASSIFICATION:

GC	CLAYEY GRAVEL
GM	SILTY GRAVEL
SP	SAND, POORLY GRADED, LITTLE OR NO FINES
SP-SM	SAND, POORLY GRADED, WITH SILT
SM	SILTY SAND
SC	CLAYEY SAND
ML	SILT
CL-ML	SILTY LEAN CLAY
CL	LEAN CLAY
OL	ORGANIC SILT OR CLAY, LOW PLASTICITY

SOIL TESTING LEGEND:

*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
2/43/38/17	GRAVEL/SAND/SILT/CLAY
KF	AVERAGE IN-FIELD PERMEABILITY (CM/SEC)
KL	LABORATORY PERMEABILITY (CM/SEC)
NP	NON-PLASTICITY

WELL CONSTRUCTION LEGEND:

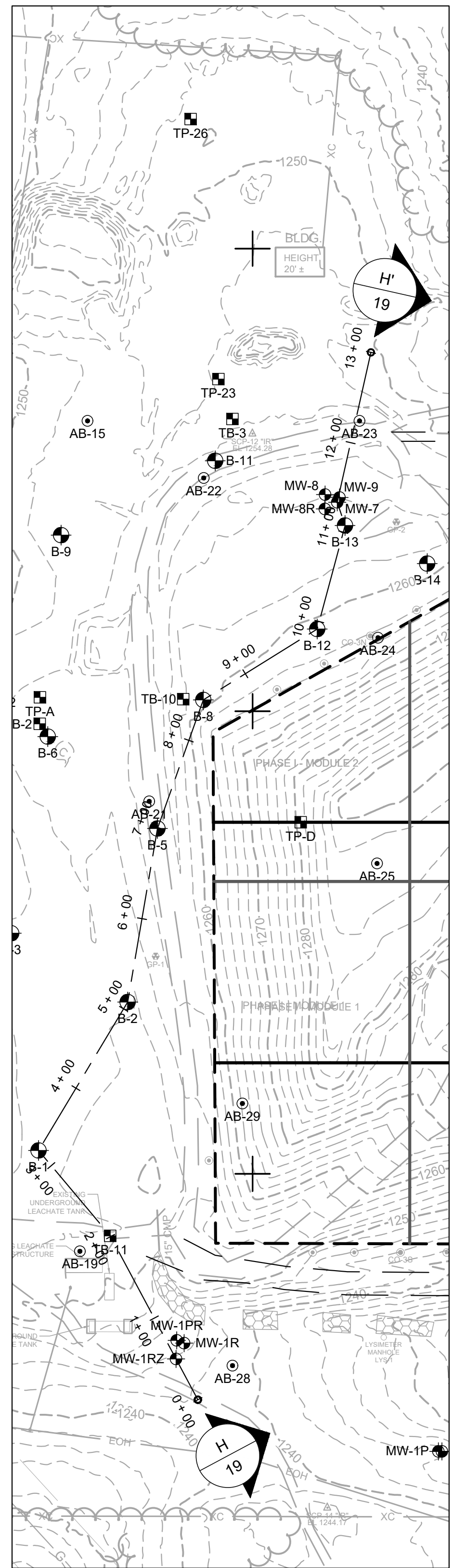
ANNULAR SEAL
BENTONITE SEAL
FINE GRAIN SAND
FILTER PACK
SCREEN
CASING STICK-UP

BEDROCK ABBREVIATIONS:

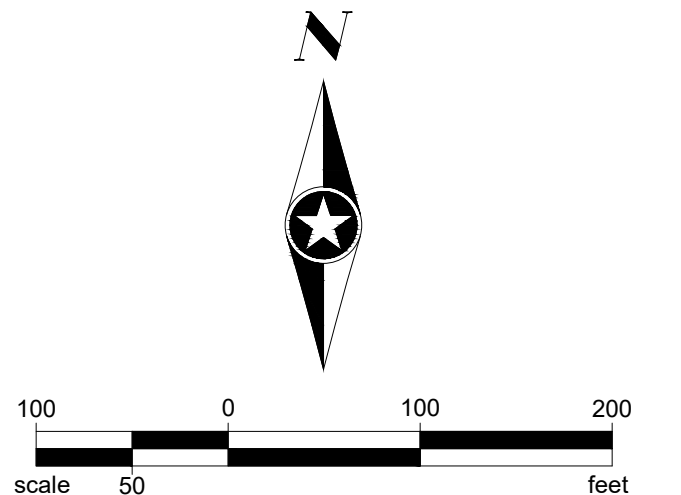
WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:

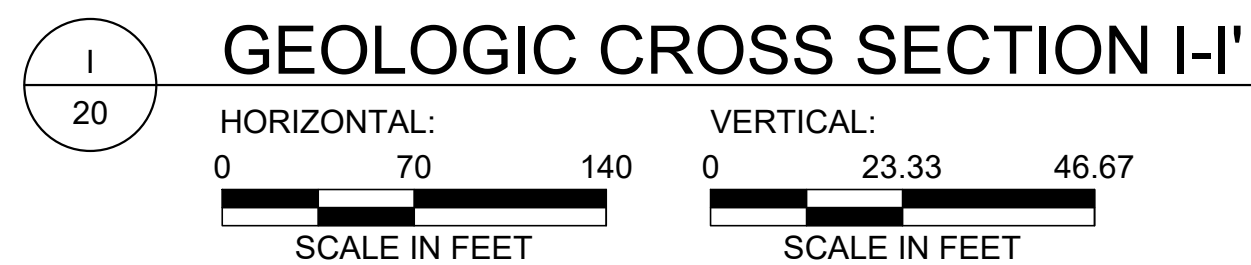
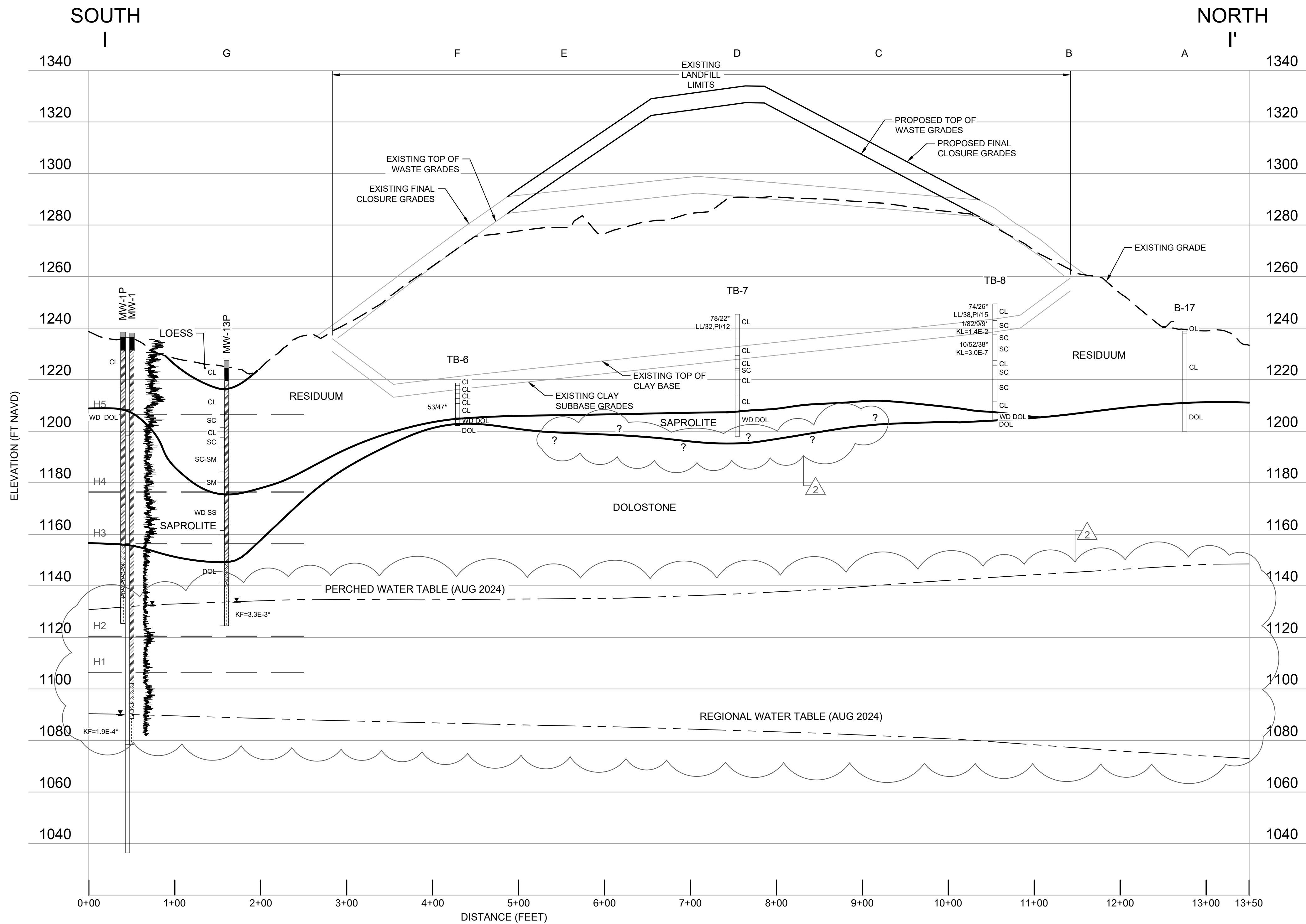
—	GEOLOGIC CONTACT
- - -	WATER TABLE
J	INTERSECTION CROSS-SECTION
H1	GAMMA LOG MARKER HORIZON
? - - - ?	INFERRED LITHOSTRATIGRAPHIC BOUNDARY
?	BORING NATURAL GAMMA LOG



LOCATION KEY:



Save: 11/19/2024 1:03 PM rpterson Plot: 11/19/2024 1:29 PM X:\UZUNIVERS\167824\5-final-dgn\51-drawings\55-Heavy CV\FEASIBILITY STUDY\SHEET\SV\167824_11 THRU 22.dwg



- NOTES:
- CONTOUR INTERVAL IS 2-FOOT.
 - GEOLOGIC CROSS SECTIONS HAVE A VERTICAL EXAGGERATION OF 3:1.

USCS CLASSIFICATION:

GC	CLAYEY GRAVEL
GM	SILTY GRAVEL
SP	SAND, POORLY GRADED, LITTLE OR NO FINES
SP-SM	SAND, POORLY GRADED, WITH SILT
SM	SILTY SAND
SC	CLAYEY SAND
ML	SILT
CL-ML	SILTY LEAN CLAY
CL	LEAN CLAY
OL	ORGANIC SILT OR CLAY, LOW PLASTICITY

SOIL TESTING LEGEND:

*	SOIL TESTING LOCATION
LL/24	LIQUID LIMIT
PI/10	PLASTICITY INDEX
PL/14	PLASTICITY LIMIT
0/51/49	GRAVEL/SAND/P200 PERCENTAGE
2/43/38/17	GRAVEL/SAND/SILT/CLAY
KF	AVERAGE IN-FIELD PERMEABILITY (CM/SEC)
KL	LABORATORY PERMEABILITY (CM/SEC)
NP	NON-PLASTICITY

WELL CONSTRUCTION LEGEND:

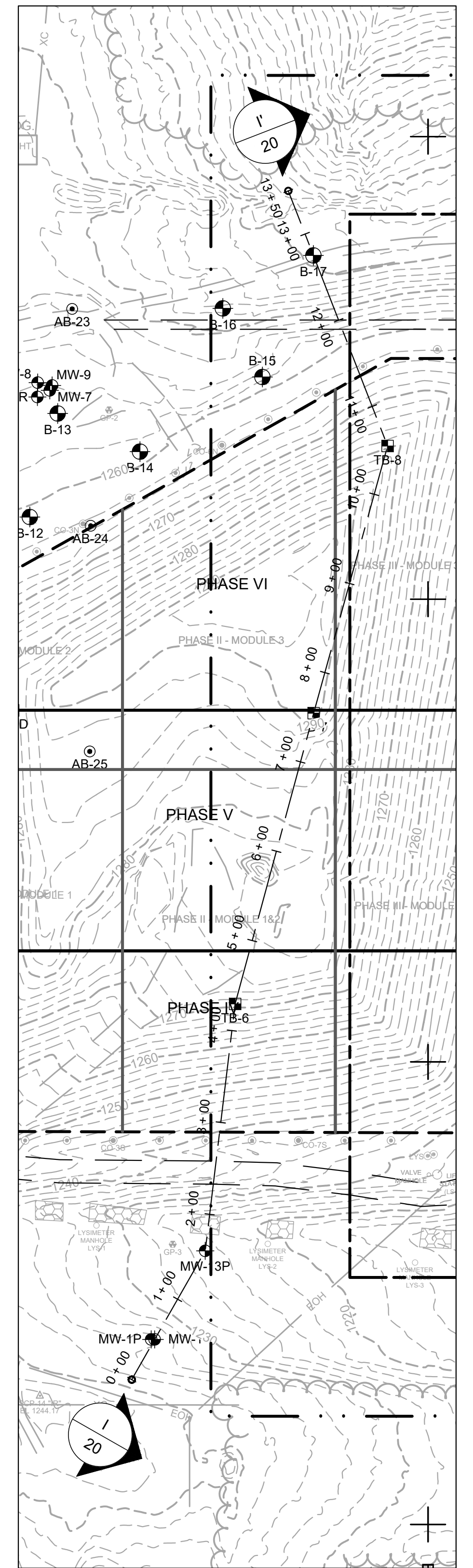
ANNULAR SEAL
BENTONITE SEAL
FINE GRAIN SAND
FILTER PACK
SCREEN
CASING STICK-UP

BEDROCK ABBREVIATIONS:

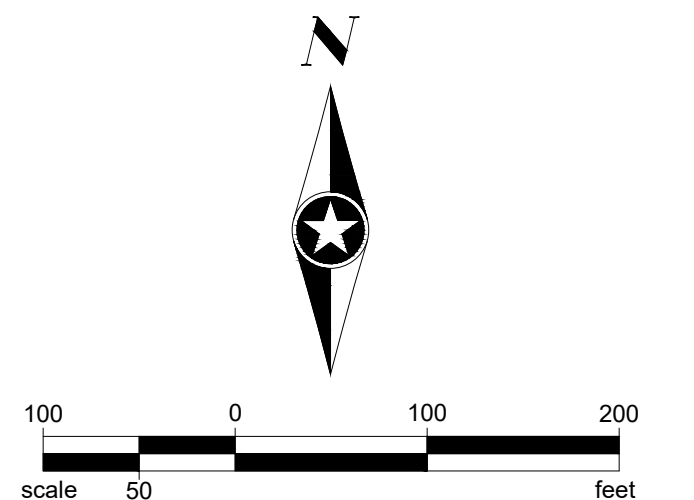
WD	WEATHERED BEDROCK
DOL	DOLOSTONE
SH	SHALE
SLTST	SILTSTONE
SS	SANDSTONE

GENERAL LEGEND:

—	GEOLOGIC CONTACT
- - -	WATER TABLE
J	INTERSECTION CROSS-SECTION
H1	GAMMA LOG MARKER HORIZON
? ?	INFERRED LITHOSTRATIGRAPHIC BOUNDARY
?	BORING NATURAL GAMMA LOG



LOCATION KEY:



SEH Project	VERSW 167824	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	NRP	1	ADDENDUM NO. 1	11/19/2024			
Designed By	TTR		ISSUED FOR REGULATORY REVIEW	09/11/2023			
Checked By	DRH						

SEH
PLANS PREPARED BY:
329 JAY STREET
SUITE 301
LA CROSSE, WI 54601-4034
PHONE: 1.608.782.3161

PLANS PREPARED FOR:
VERNON COUNTY SOLID WASTE DEPT
53705 CTH LF
VIROQUA, WISCONSIN

VERNON COUNTY LANDFILL
FEASIBILITY STUDY
GEOLOGIC CROSS SECTION I-I'