

LEGEND:

- x-21.1 ESTIMATED THICKNESS OF PROPOSED CUT (FT)
- x-5.1 ESTIMATED THICKNESS OF PROPOSED FILL (FT)
- EXISTING PIPELINE

NOTES:

1. VALUES SHOWN REPRESENT APPROXIMATE DEPTH OF EXCAVATION. DEPTH AND EXTENT OF WASTE EXCAVATION IS SUBJECT TO FIELD VERIFICATION.
2. SEE SECTION 2 FOR REMEDIATION OF WEST ACCESS ROAD, WHITTAIL CREEK, AND OTHER CONTAMINATED SOIL TO BE CLEANED UP DURING THE EARLY WORKS.
3. "CLEAN ACCESS ROAD" TO EXISTING WTP SHALL BE MAINTAINED OR RELOCATED TO PREVENT INTERRUPTION OF ACCESS.

P:\AMER\PROJECTS\3\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\04_MINE EXCAV\4-2.dwg
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ISSUE	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	KR	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

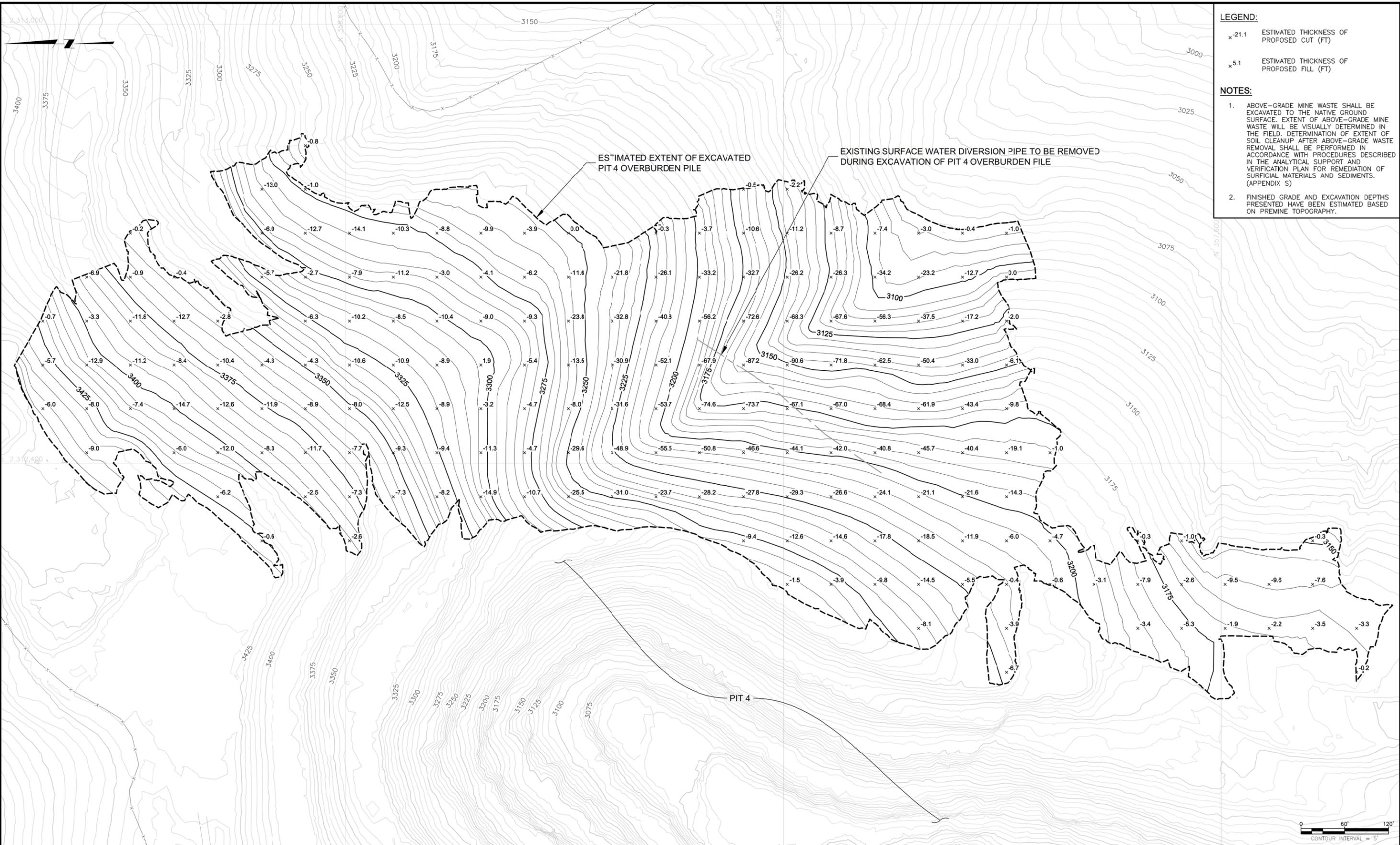
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DRAWING REFERENCE(S):

- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8.
- PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USM, 1995 AND PROVIDED BY DAWN MINING COMPANY, TO ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD83/NAVDS8) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8 COORDINATES.
- DESIGN CONTOURS REPRESENT APPROXIMATE GROUND SURFACE AT THE END OF PHASE 1.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - WASTE EXCAVATION AND PIT 4 BACKFILL	
SHEET	4-2	REVISION 3
FILE NAME	4-2	DATE JUNE 2015



- LEGEND:**
- x-21.1 ESTIMATED THICKNESS OF PROPOSED CUT (FT)
 - x-5.1 ESTIMATED THICKNESS OF PROPOSED FILL (FT)
- NOTES:**
1. ABOVE-GRADE MINE WASTE SHALL BE EXCAVATED TO THE NATIVE GROUND SURFACE. EXTENT OF ABOVE-GRADE MINE WASTE WILL BE VISUALLY DETERMINED IN THE FIELD. DETERMINATION OF EXTENT OF SOIL CLEANUP AFTER ABOVE-GRADE WASTE REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN THE ANALYTICAL SUPPORT AND VERIFICATION PLAN FOR REMEDIATION OF SURFICIAL MATERIALS AND SEDIMENTS. (APPENDIX S)
 2. FINISHED GRADE AND EXCAVATION DEPTHS PRESENTED HAVE BEEN ESTIMATED BASED ON PREMINE TOPOGRAPHY.

PW:\AMER\PWINT03\MWGL08AL.COM\AM\PROJECTS03\DOCUMENTS\FC2\NEWMT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\04 MINE EXCAV-4.dwg

ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
3		ISSUED FOR 100% DESIGN	KR	SM	06-15
2		ISSUED FOR 90% DESIGN	KR	SM	07-14
1		ISSUED FOR 60% DESIGN	KT	SM	12-13

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DRAWING REFERENCE(S):
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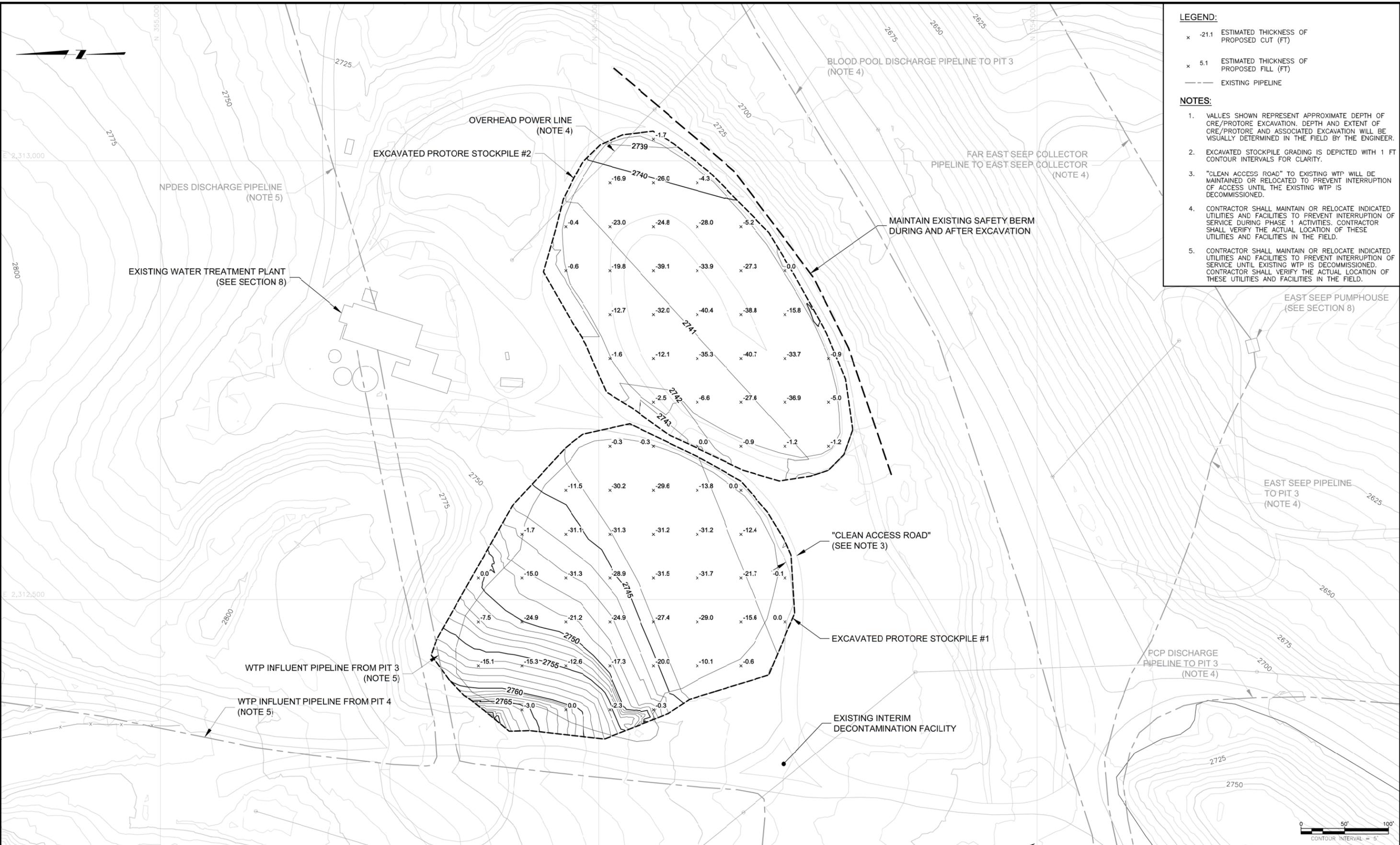
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINOT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 OVERBURDEN PILE EXCAVATION PLAN	

SHEET	4-4	REVISION	3
FILE NAME	4-4	DATE	JUNE 2015





- LEGEND:**
- x -21.1 ESTIMATED THICKNESS OF PROPOSED CUT (FT)
 - x 5.1 ESTIMATED THICKNESS OF PROPOSED FILL (FT)
 - EXISTING PIPELINE
- NOTES:**
1. VALUES SHOWN REPRESENT APPROXIMATE DEPTH OF CRE/PROTORE EXCAVATION. DEPTH AND EXTENT OF CRE/PROTORE AND ASSOCIATED EXCAVATION WILL BE VISUALLY DETERMINED IN THE FIELD BY THE ENGINEER.
 2. EXCAVATED STOCKPILE GRADING IS DEPICTED WITH 1 FT CONTOUR INTERVALS FOR CLARITY.
 3. "CLEAN ACCESS ROAD" TO EXISTING WTP WILL BE MAINTAINED OR RELOCATED TO PREVENT INTERRUPTION OF ACCESS UNTIL THE EXISTING WTP IS DECOMMISSIONED.
 4. CONTRACTOR SHALL MAINTAIN OR RELOCATE INDICATED UTILITIES AND FACILITIES TO PREVENT INTERRUPTION OF SERVICE DURING PHASE 1 ACTIVITIES. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.
 5. CONTRACTOR SHALL MAINTAIN OR RELOCATE INDICATED UTILITIES AND FACILITIES TO PREVENT INTERRUPTION OF SERVICE UNTIL EXISTING WTP IS DECOMMISSIONED. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.

P:\AMER\PROJECTS\3\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\04_MINE EXCAV\4-5.dwg
 PROJECT LOCATION: WELLPINIT, WASHINGTON
 PROJECT: MIDNITE MINE
 TITLE: PHASE 1 - STOCKPILES 1 AND 2 EXCAVATION PLAN
 SHEET: 4-5
 REVISION: 3
 DATE: JUNE 2015

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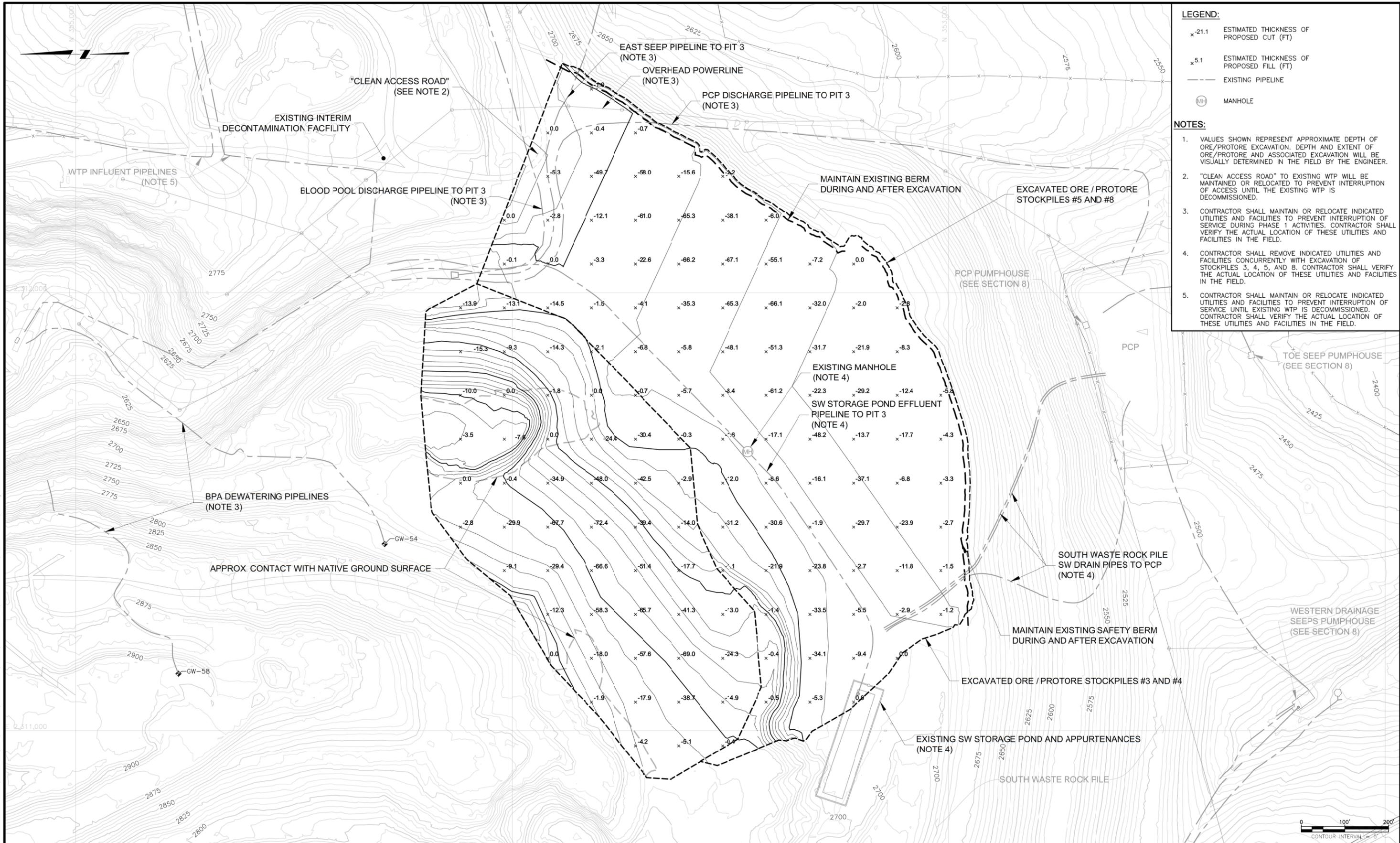
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DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - STOCKPILES 1 AND 2 EXCAVATION PLAN	

	SHEET	4-5	REVISION	3
	FILE NAME	4-5	DATE	JUNE 2015



- LEGEND:**
- x -21.1 ESTIMATED THICKNESS OF PROPOSED CUT (FT)
 - x 5.1 ESTIMATED THICKNESS OF PROPOSED FILL (FT)
 - EXISTING PIPELINE
 - (MH) MANHOLE

- NOTES:**
1. VALUES SHOWN REPRESENT APPROXIMATE DEPTH OF ORE/PROTORE EXCAVATION. DEPTH AND EXTENT OF ORE/PROTORE AND ASSOCIATED EXCAVATION WILL BE VISUALLY DETERMINED IN THE FIELD BY THE ENGINEER.
 2. "CLEAN ACCESS ROAD" TO EXISTING WTP WILL BE MAINTAINED OR RELOCATED TO PREVENT INTERRUPTION OF ACCESS UNTIL THE EXISTING WTP IS DECOMMISSIONED.
 3. CONTRACTOR SHALL MAINTAIN OR RELOCATE INDICATED UTILITIES AND FACILITIES TO PREVENT INTERRUPTION OF SERVICE DURING PHASE 1 ACTIVITIES. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.
 4. CONTRACTOR SHALL REMOVE INDICATED UTILITIES AND FACILITIES CONCURRENTLY WITH EXCAVATION OF STOCKPILES 3, 4, 5, AND 8. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.
 5. CONTRACTOR SHALL MAINTAIN OR RELOCATE INDICATED UTILITIES AND FACILITIES TO PREVENT INTERRUPTION OF SERVICE UNTIL EXISTING WTP IS DECOMMISSIONED. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.

PW:\AMER\PW\03\MW\GLOBAL.COM\AM\PROJECTS\03\DOCUMENTS\1\2\13-SHEET SET\2015-01-01_BODR\04_MINE EXCAV\4-6.dwg
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ISSUE NO.	DESCRIPTION	TECH	ENG	DATE
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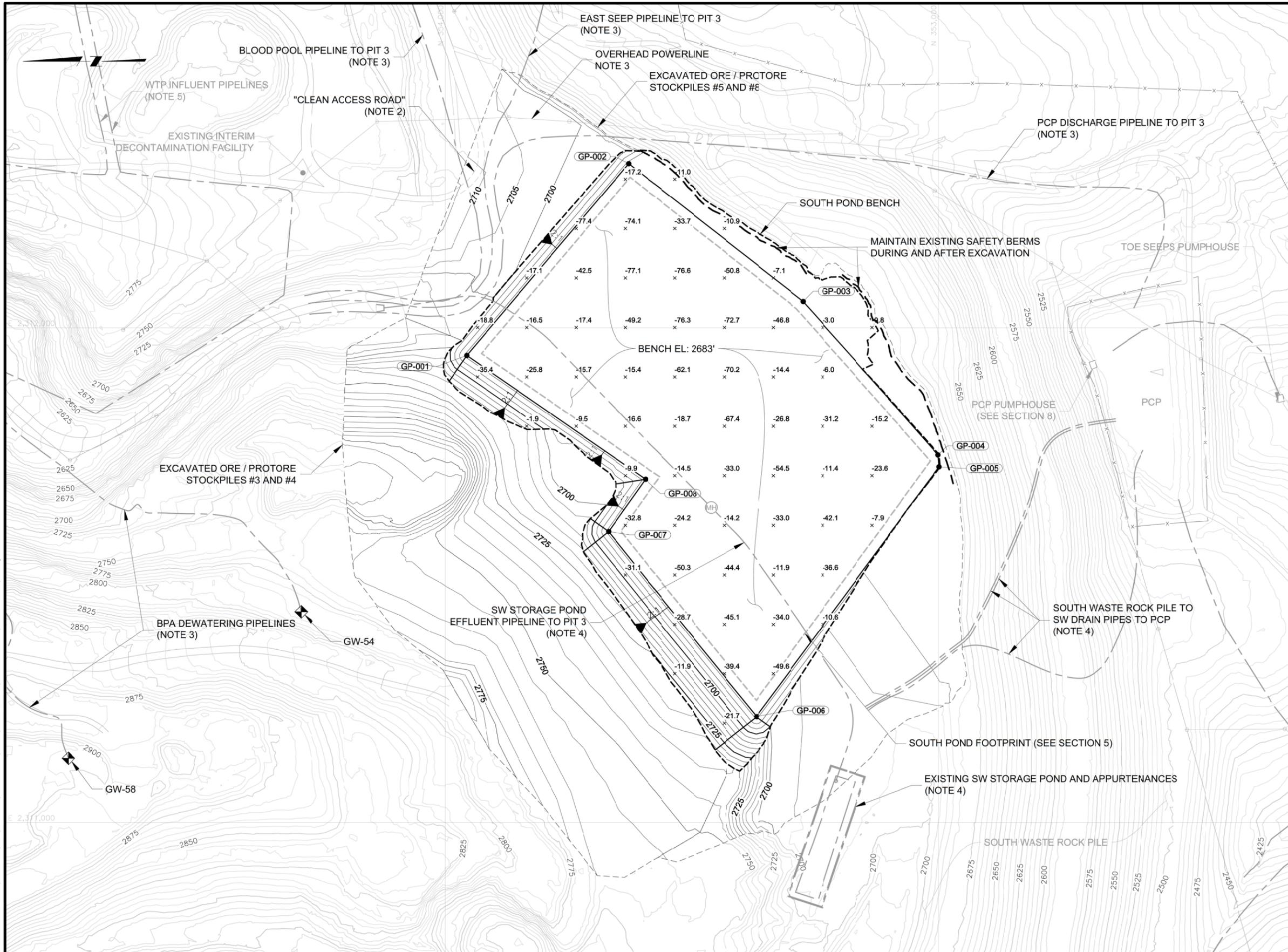
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 * PREMISE TOPOGRAPHY AND FIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAV088) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.

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DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

PROJECT LOCATION	WELLPINOT, WASHINGTON
PROJECT	MIDNITE MINE
TITLE	PHASE 1 - STOCKPILES 3, 4, 5 AND 8 EXCAVATION PLAN

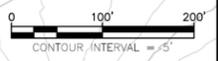
	SHEET	4-6	REVISION	3
	FILE NAME	4-6	DATE	JUNE 2015



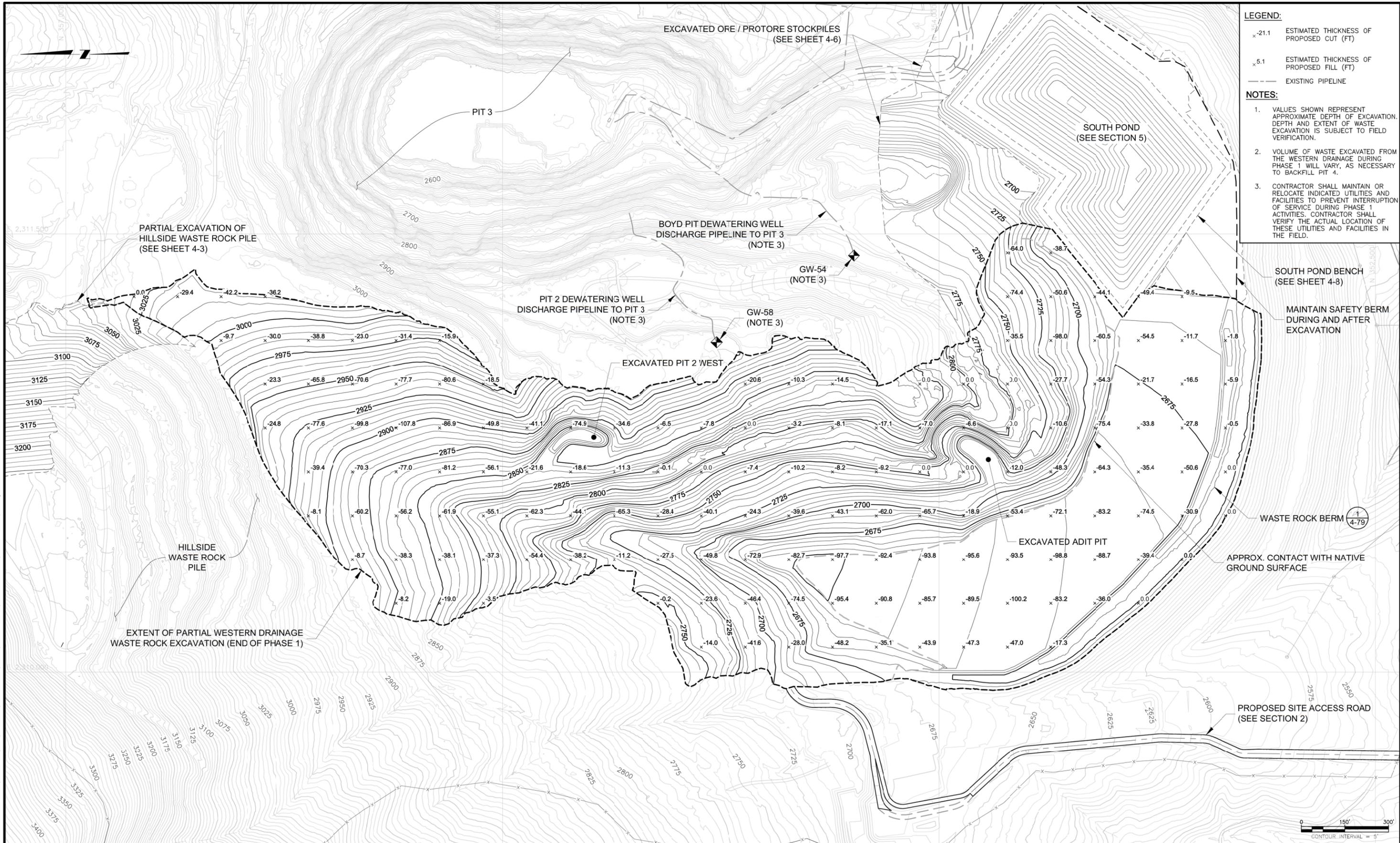
- LEGEND:**
- x-21.1 ESTIMATED THICKNESS OF PROPOSED CUT (FT)
 - x-5.1 ESTIMATED THICKNESS OF PROPOSED FILL (FT)
 - EXISTING PIPELINE
 - ⊕ MANHOLE
- NOTES:**
1. CUT/FILL VALUES SHOWN REPRESENT APPROXIMATE DEPTH OF EXCAVATION BASED ON ESTIMATED EXTENTS OF ORE/PROTORE STOCKPILES 3, 4, 5, AND 8 (SEE SHEET 4-6).
 2. "CLEAN ACCESS ROAD" TO EXISTING WTP WILL BE MAINTAINED OR RELOCATED TO PREVENT INTERRUPTION OF ACCESS UNTIL THE EXISTING WTP IS DECOMMISSIONED.
 3. CONTRACTOR SHALL MAINTAIN OR RELOCATE INDICATED UTILITIES AND FACILITIES TO PREVENT INTERRUPTION OF SERVICE DURING PHASE 1 ACTIVITIES. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.
 4. CONTRACTOR SHALL REMOVE INDICATED UTILITIES AND FACILITIES CONCURRENTLY WITH EXCAVATION OF STOCKPILES 3, 4, 5, AND 8 (SEE SHEET 4-6). CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.
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GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	353956.2	2311944.3	2682.9
GP-002	353627.7	2312332.6	2682.9
GP-003	353273.8	2312053.2	2682.9
GP-004	353000.8	2311742.7	2682.9
GP-005	352998.6	2311718.6	2682.9
GP-006	353368.9	2311213.8	2682.9
GP-007	353668.5	2311588.3	2682.9
GP-008	353593.7	2311693.6	2682.9

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3 ISSUED FOR 100% DESIGN KR SM 06-15 2 ISSUED FOR 90% DESIGN KR SM 07-14 1 ISSUED FOR 60% DESIGN DM SM 12-13	TECH ENG DATE			SHEET: 4-8 FILE NAME: 4-8	REVISION: 3 DATE: JUNE 2015		



- LEGEND:**
- x-21.1 ESTIMATED THICKNESS OF PROPOSED CUT (FT)
 - x-5.1 ESTIMATED THICKNESS OF PROPOSED FILL (FT)
 - EXISTING PIPELINE
- NOTES:**
1. VALUES SHOWN REPRESENT APPROXIMATE DEPTH OF EXCAVATION. DEPTH AND EXTENT OF WASTE EXCAVATION IS SUBJECT TO FIELD VERIFICATION.
 2. VOLUME OF WASTE EXCAVATED FROM THE WESTERN DRAINAGE DURING PHASE 1 WILL VARY, AS NECESSARY TO BACKFILL PIT 4.
 3. CONTRACTOR SHALL MAINTAIN OR RELOCATE INDICATED UTILITIES AND FACILITIES TO PREVENT INTERRUPTION OF SERVICE DURING PHASE 1 ACTIVITIES. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE UTILITIES AND FACILITIES IN THE FIELD.

PW \\AMER\PW\INT03\MW\GLOBAL\COM\AM\PROJECTS\03\DOCUMENTS\FTC2\NEW\MT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\04 MINE EXCAV\4-9.dwg

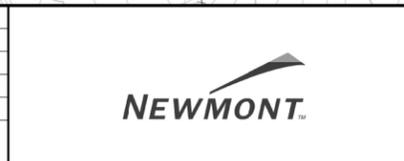
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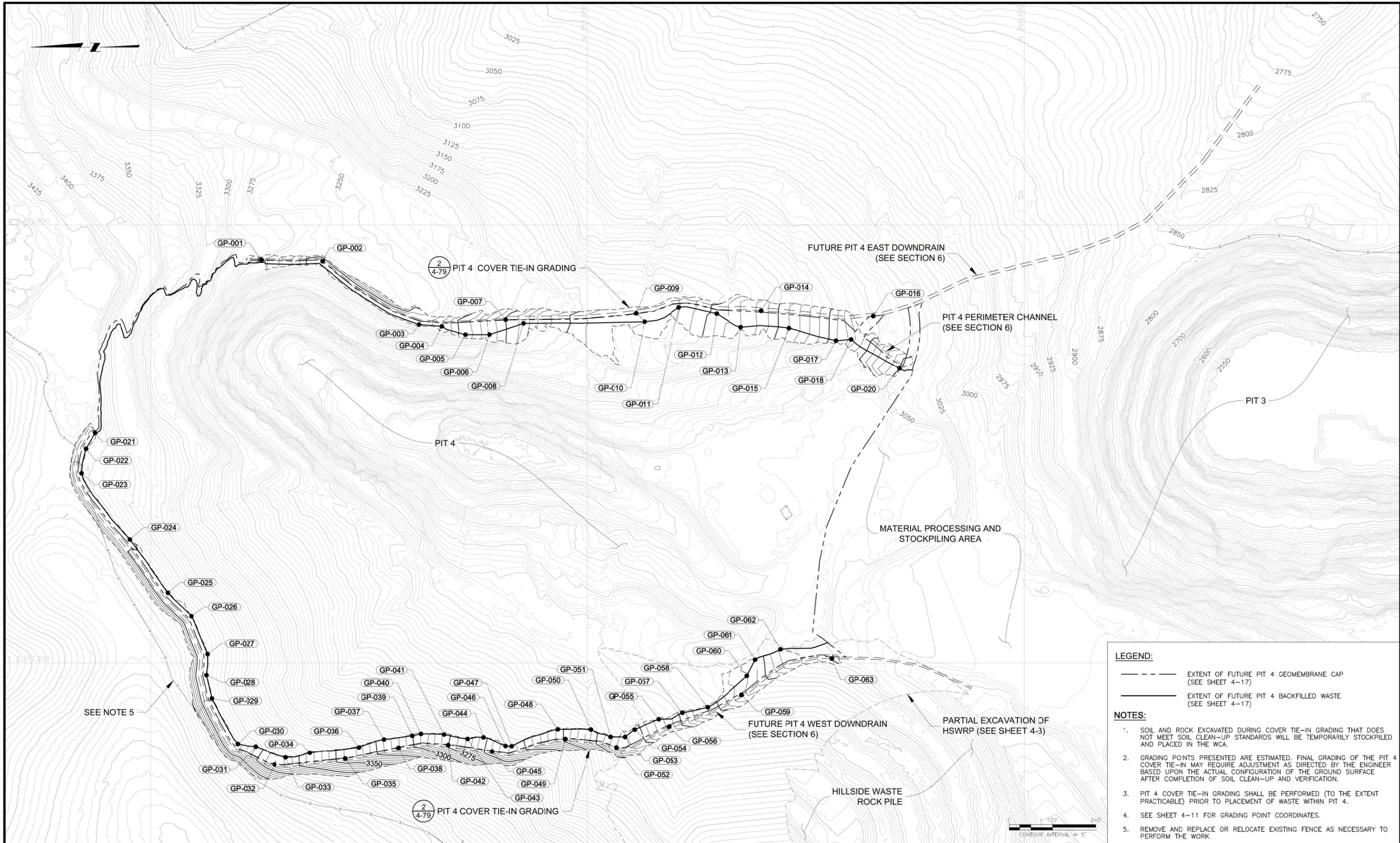
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- * PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC.
- * EXISTING CONTOURS REPRESENT APPROXIMATE GROUND SURFACE AT THE END OF EARLY WORKS.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - WESTERN DRAINAGE WASTE EXCAVATION PLAN	

	SHEET	4-9	REVISION	3
	FILE NAME	4-9	DATE	JUNE 2015



LEGEND:

- EXTENT OF FUTURE PIT 4 GEOMEMBRANE CAP (SEE SHEET 4-17)
- EXTENT OF FUTURE PIT 4 BACKFILLED WASTE (SEE SHEET 4-17)

NOTES:

1. SOIL AND ROCK EXCAVATED DURING COVER TIE-IN GRADING THAT DOES NOT MEET SOIL CLEAN-UP STANDARDS WILL BE TEMPORARILY STOCKPILED AND PLACED IN THE WCA.
2. GRADING POINTS PRESENTED ARE ESTIMATED. FINAL GRADING OF THE PIT 4 COVER TIE-IN MAY REQUIRE ADJUSTMENT AS DIRECTED BY THE ENGINEER BASED UPON THE ACTUAL CONFIGURATION OF THE GROUND SURFACE AFTER COMPLETION OF SOIL CLEAN-UP AND VERIFICATION.
3. PIT 4 COVER TIE-IN GRADING SHALL BE PERFORMED (TO THE EXTENT PRACTICABLE) PRIOR TO PLACEMENT OF WASTE WITHIN PIT 4.
4. SEE SHEET 4-11 FOR GRADING POINT COORDINATES.
5. REMOVE AND REPLACE OR RELOCATE EXISTING FENCE AS NECESSARY TO PERFORM THE WORK.

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3	ISSUED FOR 100% DESIGN	KR	SM	06-15			SHEET: 4-10 FILE NAME: 4-10		REVISION: 3 DATE: JUNE 2015		
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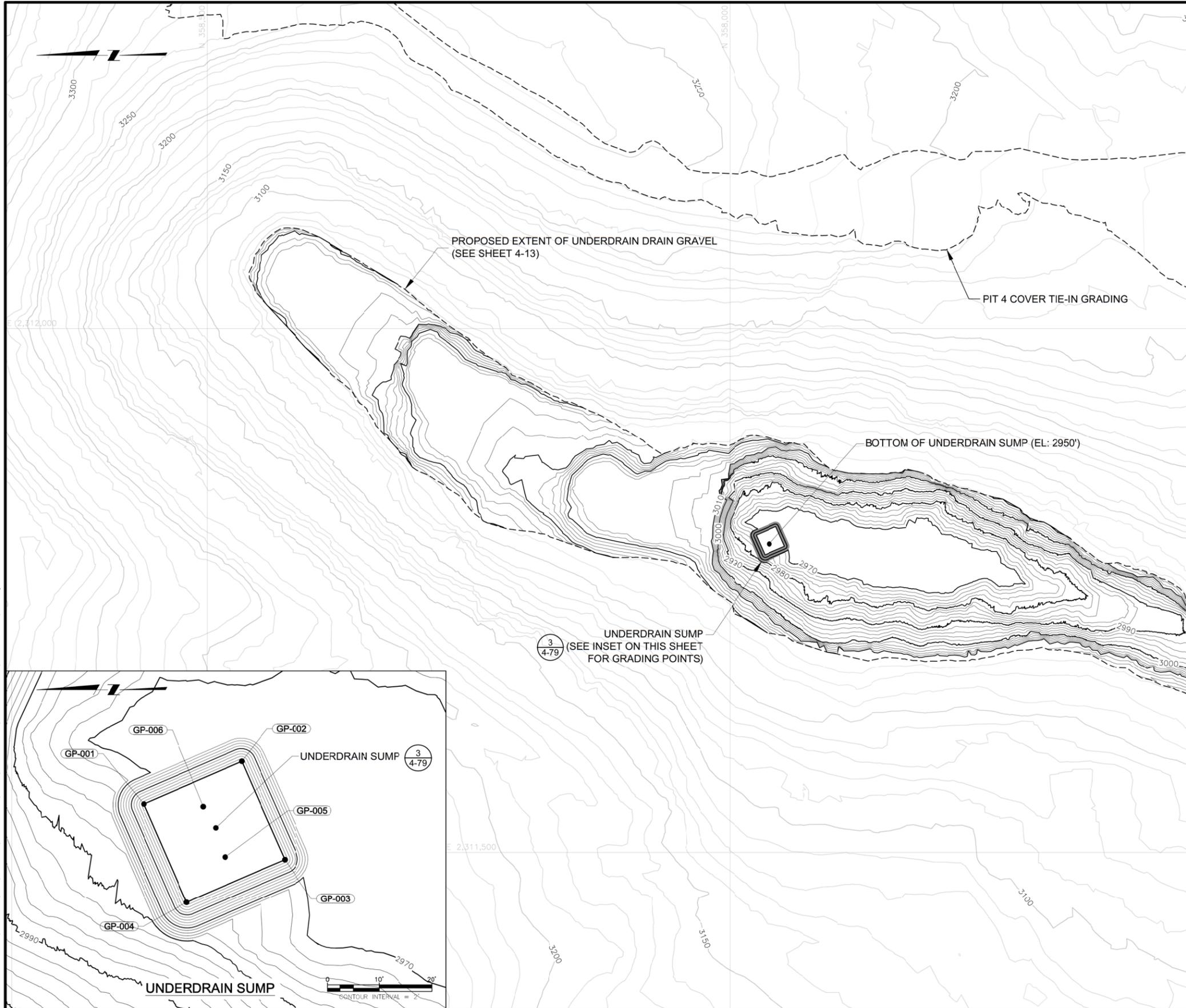
GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-001	358496.3	2312304.5	3273.1	DRAINAGE BENCH TIE-IN
GP-002	358328.4	2312300.6	3246.6	DRAINAGE BENCH TIE-IN
GP-003	358063.5	2312127.4	3241.0	GRADE BREAK/EDGE OF WASTE
GP-004	358000.7	2312122.5	3235.4	GRADE BREAK/EDGE OF WASTE
GP-005	357935.4	2312099.8	3222.6	GRADE BREAK/EDGE OF WASTE
GP-006	357869.7	2312099.9	3209.4	GRADE BREAK/EDGE OF WASTE
GP-007	357825.3	2312141.1	3199.9	DRAINAGE BENCH TIE-IN
GP-008	357776.0	2312130.6	3193.7	GRADE BREAK/EDGE OF WASTE
GP-009	357467.3	2312158.3	3165.1	DRAINAGE BENCH TIE-IN
GP-010	357442.6	2312135.2	3165.0	GRADE BREAK/EDGE OF WASTE
GP-011	357349.5	2312174.4	3160.4	GRADE BREAK/EDGE OF WASTE
GP-012	357245.0	2312157.3	3148.8	GRADE BREAK/EDGE OF WASTE
GP-013	357179.3	2312120.2	3140.4	GRADE BREAK/EDGE OF WASTE
GP-014	357122.0	2312165.1	3132.7	DRAINAGE BENCH TIE-IN
GP-015	357046.5	2312117.5	3120.2	GRADE BREAK/EDGE OF WASTE
GP-016	356815.0	2312150.6	3076.2	DRAINAGE BENCH TIE-IN
GP-017	356917.1	2312083.4	3095.6	GRADE BREAK/EDGE OF WASTE
GP-018	356875.9	2312086.6	3087.6	GRADE BREAK/EDGE OF WASTE
GP-020	356742.4	2312006.7	3049.9	GRADE BREAK/EDGE OF WASTE
GP-021	358953.4	2311830.0	3432.9	GRADE BREAK/EDGE OF WASTE
GP-022	358978.9	2311786.8	3430.7	GRADE BREAK/EDGE OF WASTE
GP-023	358991.2	2311719.9	3429.5	GRADE BREAK/EDGE OF WASTE
GP-024	358858.0	2311539.1	3425.5	GRADE BREAK/EDGE OF WASTE
GP-025	358752.9	2311392.1	3423.6	GRADE BREAK/EDGE OF WASTE
GP-026	358688.3	2311328.2	3422.7	GRADE BREAK/EDGE OF WASTE
GP-027	358644.2	2311224.5	3421.7	GRADE BREAK/EDGE OF WASTE
GP-028	358647.2	2311166.8	3421.1	GRADE BREAK/EDGE OF WASTE
GP-029	358632.3	2311103.0	3420.2	GRADE BREAK/EDGE OF WASTE
GP-030	358561.9	2310978.3	3418.0	GRADE BREAK/EDGE OF WASTE
GP-031	358511.7	2310971.0	3405.3	GRADE BREAK/EDGE OF WASTE
GP-032	358460.7	2310921.2	3390.1	DRAINAGE BENCH TIE-IN

GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-033	358429.9	2310941.0	3384.2	GRADE BREAK/EDGE OF WASTE
GP-034	358362.9	2310953.6	3367.6	GRADE BREAK/EDGE OF WASTE
GP-035	358266.0	2310937.7	3344.4	DRAINAGE BENCH TIE-IN
GP-036	358229.3	2310968.6	3337.8	GRADE BREAK/EDGE OF WASTE
GP-037	358159.9	2310990.6	3319.3	GRADE BREAK/EDGE OF WASTE
GP-038	358120.5	2310967.5	3310.9	DRAINAGE BENCH TIE-IN
GP-039	358081.9	2311000.8	3300.3	GRADE BREAK/EDGE OF WASTE
GP-040	358058.2	2311006.0	3294.8	GRADE BREAK/EDGE OF WASTE
GP-041	357994.6	2311004.3	3278.9	GRADE BREAK/EDGE OF WASTE
GP-042	357983.3	2310975.2	3275.2	DRAINAGE BENCH TIE-IN
GP-043	357929.8	2310992.2	3264.2	GRADE BREAK/EDGE OF WASTE
GP-044	357886.7	2310996.4	3252.8	GRADE BREAK/EDGE OF WASTE
GP-045	357862.2	2310957.4	3244.4	DRAINAGE BENCH TIE-IN
GP-046	357825.6	2310972.8	3236.7	GRADE BREAK/EDGE OF WASTE
GP-047	357808.9	2310972.3	3233.1	GRADE BREAK/EDGE OF WASTE
GP-048	357681.8	2311018.6	3203.7	GRADE BREAK/EDGE OF WASTE
GP-049	357661.1	2310991.9	3198.6	DRAINAGE BENCH TIE-IN
GP-050	357590.5	2311018.0	3180.8	GRADE BREAK/EDGE OF WASTE
GP-051	357538.0	2310997.8	3166.6	GRADE BREAK/EDGE OF WASTE
GP-052	357520.1	2310968.4	3159.4	DRAINAGE BENCH TIE-IN
GP-053	357497.0	2310997.5	3155.6	GRADE BREAK/EDGE OF WASTE
GP-054	357471.0	2311017.8	3152.6	GRADE BREAK/EDGE OF WASTE
GP-055	357404.7	2311046.2	3137.2	GRADE BREAK/EDGE OF WASTE
GP-056	357376.6	2311025.9	3133.4	DRAINAGE BENCH TIE-IN
GP-057	357339.4	2311063.9	3122.6	GRADE BREAK/EDGE OF WASTE
GP-058	357268.9	2311078.9	3104.7	GRADE BREAK/EDGE OF WASTE
GP-059	357177.0	2311112.7	3086.6	DRAINAGE BENCH TIE-IN
GP-060	357162.6	2311165.1	3085.5	GRADE BREAK/EDGE OF WASTE
GP-061	357140.3	2311209.3	3081.5	GRADE BREAK/EDGE OF WASTE
GP-062	357070.4	2311237.5	3063.8	GRADE BREAK/EDGE OF WASTE
GP-063	356928.5	2311212.2	3050.3	DRAINAGE BENCH TIE-IN

NOTE:

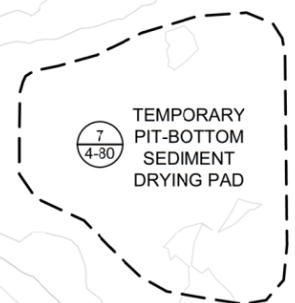
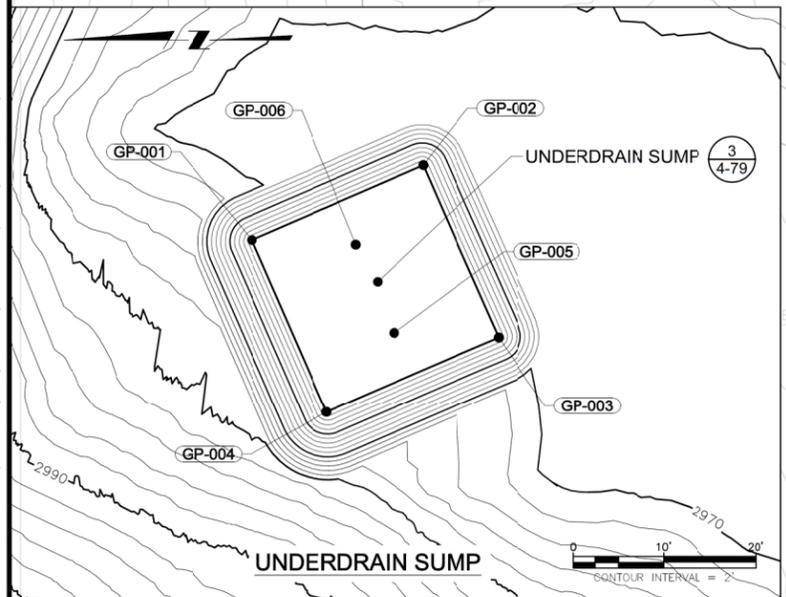
1. LOCATION OF GRADING POINTS ARE SHOWN ON SHEET 4-10.

<p>3 ISSUED FOR 100% DESIGN KR SM 06-15</p>				<p>DISCLAIMER: THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES AND KNOW HOW OF MWH AS AUTHOR ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHOR. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.</p>	<p>DRAWING REFERENCE(S): * ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NVD88 DATUM.</p>	<p>DESIGNED BY S MCMANUS 06-15</p>				<p>PROJECT LOCATION WELLPINIT, WASHINGTON</p>		
<p>2 ISSUED FOR 90% DESIGN KR SM 07-14</p>						<p>DRAWN BY K REED 06-15</p>				<p>PROJECT MIDNITE MINE</p>		
<p>1 DESCRIPTION TECH ENG DATE</p>				<p>APPROVED BY C STRACHAN 06-15</p>			<p>PROJECT MANAGER V DRAIN 06-15</p>			<p>TITLE PHASE 1 - PIT 4 COVER TIE-IN GRADING POINT TABLE</p>		<p>SHEET 4-11 REVISION 3</p>
										<p>FILE NAME 4-10 DATE JUNE 2015</p>		



- NOTES:**
- FOR PIT 4 UNDERDRAIN AND WASTE ROCK DEWATERING SYSTEMS SEE SHEETS 4-13, 4-15, AND 4-20.
 - REMOVE PIT SEDIMENTS, LOOSE ROCK, AND SOIL FROM WITHIN THE PROPOSED EXTENT OF UNDERDRAIN DRAIN GRAVEL OR AS DIRECTED BY THE ENGINEER.
 - PIT BOTTOM CONTOURS SHOWN REFLECT ESTIMATED ELEVATIONS AFTER SEDIMENT REMOVAL. ACTUAL GRADE OF THE PIT BOTTOM WILL BE DETERMINED BY THE EXISTING SUBGRADE BENEATH SEDIMENT AND LOOSE MATERIAL.
 - PIT 4 BOTTOM GRADING IS DEPICTED WITH 2 FT CONTOUR INTERVALS FOR CLARITY.
 - CONTRACTOR MUST IMPLEMENT APPROVED ROCKFALL PROTECTION PLAN PRIOR TO WORK WITHIN THE PITS.
 - CONTRACTOR TO PERFORM AS-CONSTRUCTED SURVEY OF FINAL PIT BOTTOM CONFIGURATION AFTER PIT BOTTOM SOIL, ROCK AND SEDIMENT CLEANUP, PRIOR TO PLACEMENT OF DRAIN MATERIAL.

GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-001	357974.7	2311802.9	2950.0	SUMP BOTTOM CORNER
GP-002	357955.9	2311811.0	2950.0	SUMP BOTTOM CORNER
GP-003	357947.7	2311792.2	2950.0	SUMP BOTTOM CORNER
GP-004	357966.5	2311784.1	2950.0	SUMP BOTTOM CORNER
GP-005	357959.1	2311792.8	2951.5	BOTTOM OF UNDERDRAIN RISER
GP-006	357963.3	2311802.4	2951.5	BOTTOM OF UNDERDRAIN RISER



P:\AMER\PWINT03\WORLDGLOB\AMAL\PROJECTS\03\DOCUMENTS\T02\NEWMT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\04_MINE EXCAV_4-12.dwg
 3
 2
 1
 0
 ISSUE
 REV

ISSUE	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	KR	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

DISCLAIMER:
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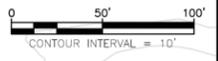
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88.
 * PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMIL, HAS, 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC ORIGINAL COORDINATE SYSTEM USED IN USMIL MAPPING (NAD83/NAV88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV88 COORDINATES.
 * ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAV88 DATUM.

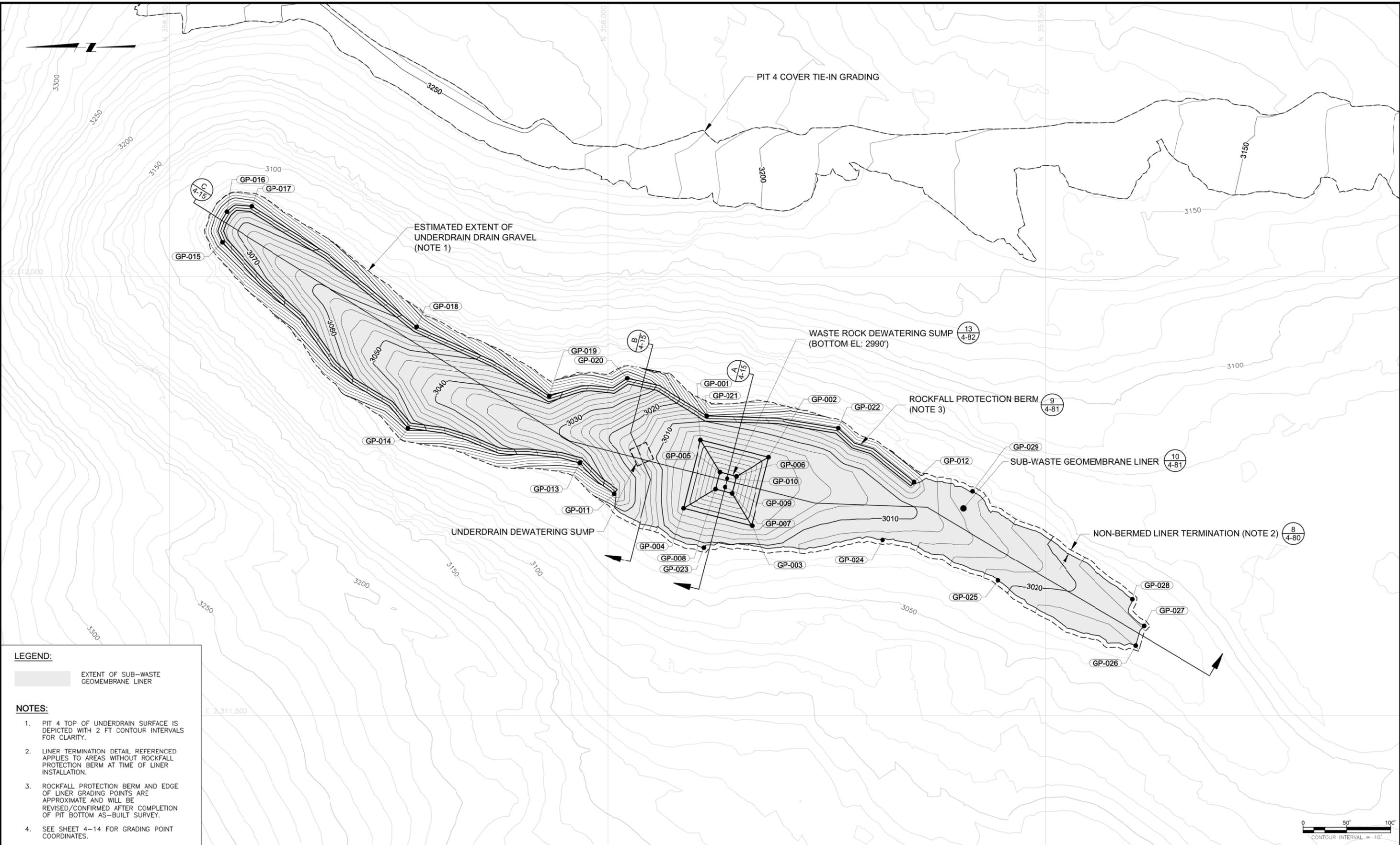
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPIN, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 BOTTOM EXCAVATION AND GRADING PLAN	

	SHEET	4-12	REVISION	3
	FILE NAME	4-12	DATE	JUNE 2015

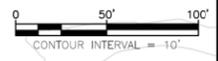




LEGEND:

EXTENT OF SUB-WASTE GEOMEMBRANE LINER

- NOTES:**
- PIT 4 TOP OF UNDERDRAIN SURFACE IS DEPICTED WITH 2 FT CONTOUR INTERVALS FOR CLARITY.
 - LINER TERMINATION DETAIL REFERENCED APPLIES TO AREAS WITHOUT ROCKFALL PROTECTION BERM AT TIME OF LINER INSTALLATION.
 - ROCKFALL PROTECTION BERM AND EDGE OF LINER GRADING POINTS ARE APPROXIMATE AND WILL BE REVISED/CONFIRMED AFTER COMPLETION OF PIT BOTTOM AS-BUILT SURVEY.
 - SEE SHEET 4-14 FOR GRADING POINT COORDINATES.



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
3		ISSUED FOR 100% DESIGN	KR	SM	06-15
2		ISSUED FOR 90% DESIGN	KR	SM	07-14
1		ISSUED FOR 60% DESIGN	KT	SM	12-13
0		ISSUED FOR 30% DESIGN	DM	SM	12-12

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DRAWING REFERENCE(S):

- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD27/NAV82) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV88 COORDINATES.
- ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAV88 DATUM.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 SUB-WASTE LINER INSTALLATION PLAN	

	SHEET	4-13	REVISION	3
	FILE NAME	4-13	DATE	JUNE 2015

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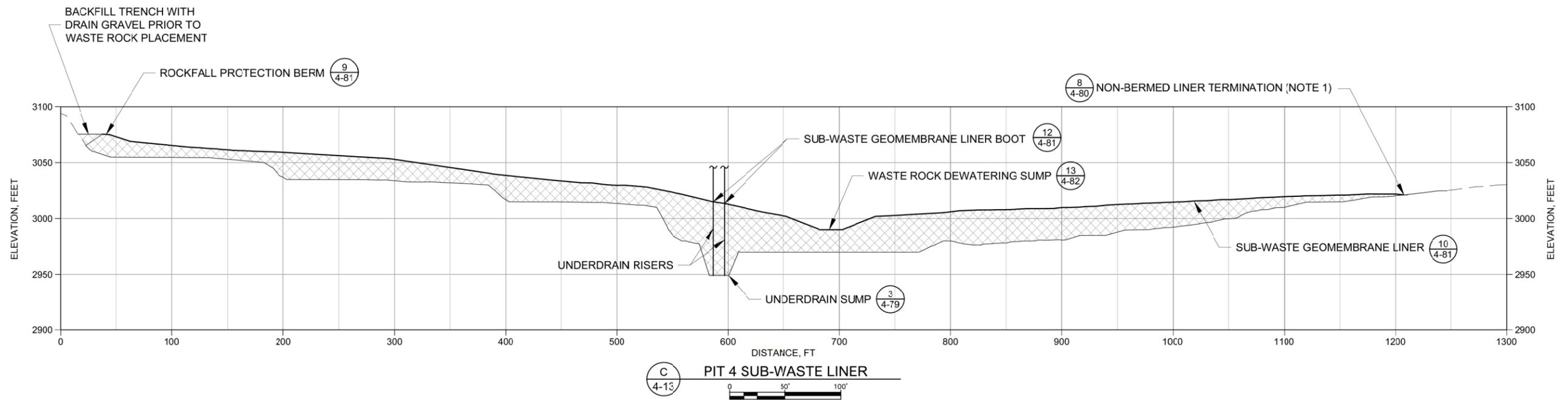
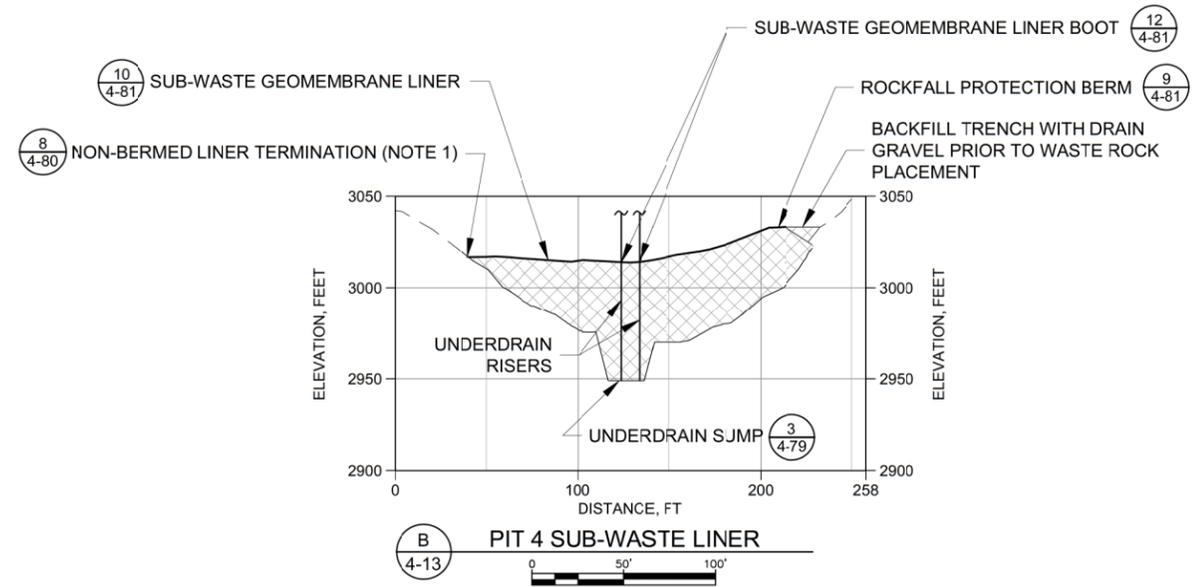
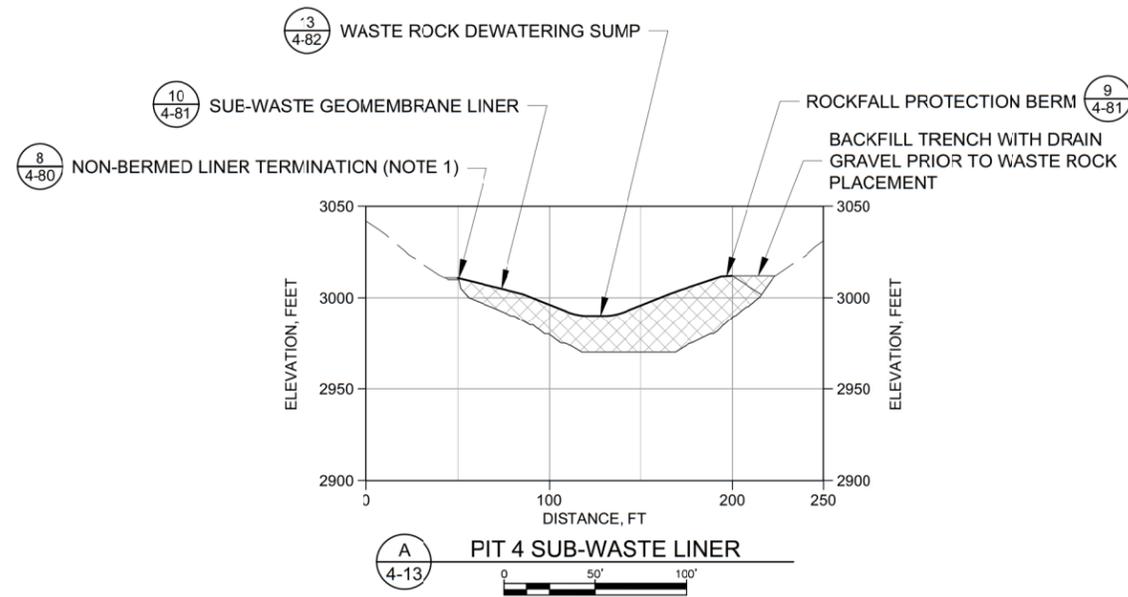
GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-001	357893.9	2311813.8	3002.4	SUMP CREST P.I.
GP-002	357816.3	2311794.2	3002.5	SUMP CREST P.I.
GP-003	357835.2	2311716.5	3002.5	SUMP CREST P.I.
GP-004	357913.4	2311736.3	3002.4	SUMP CREST P.I.
GP-005	357872.1	2311777.3	2990.6	SUMP BOTTOM CCRNER
GP-006	357852.7	2311772.4	2990.6	SUMP BOTTOM CCRNER
GP-007	357857.6	2311753.1	2990.0	SUMP BOTTOM CCRNER
GP-008	357877.0	2311757.9	2990.0	SUMP BOTTOM CCRNER
GP-009	357866.1	2311760.3	2993.0	BOTTOM OF WASTE ROCK DEWATERING RISER
GP-010	357863.6	2311770.0	2993.0	BOTTOM OF WASTE ROCK DEWATERING RISER
GP-011	357992.4	2311752.7	3027.8	OUTER EDGE OF CREST (NOTE 3)
GP-012	357650.1	2311766.1	3017.0	OUTER EDGE OF CREST (NOTE 3)
GP-013	358032.2	2311787.6	3033.7	OUTER EDGE OF CREST (NOTE 3)
GP-014	358228.1	2311827.2	3051.8	OUTER EDGE OF CREST (NOTE 3)
GP-015	358439.7	2312038.9	3074.7	OUTER EDGE OF CREST (NOTE 3)

GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-016	358434.7	2312073.7	3075.5	OUTER EDGE OF CREST (NOTE 3)
GP-017	358406.2	2312079.9	3074.6	OUTER EDGE OF CREST (NOTE 3)
GP-018	358218.3	2311942.7	3057.9	OUTER EDGE OF CREST (NOTE 3)
GP-019	358066.6	2311863.5	3040.9	OUTER EDGE OF CREST (NOTE 3)
GP-020	357977.7	2311883.7	3035.0	OUTER EDGE OF CREST (NOTE 3)
GP-021	357886.7	2311841.0	3010.4	OUTER EDGE OF CREST (NOTE 3)
GP-022	357736.7	2311827.1	3017.0	OUTER EDGE OF CREST (NOTE 3)
GP-023	357889.9	2311691.5	3011.0	EDGE OF LINER
GP-024	357686.2	2311700.3	3012.4	EDGE OF LINER
GP-025	357554.4	2311653.9	3019.1	EDGE OF LINER
GP-026	357397.4	2311579.7	3021.9	EDGE OF LINER
GP-027	357387.7	2311602.0	3022.4	EDGE OF LINER
GP-028	357401.1	2311632.4	3022.8	EDGE OF LINER
GP-029	357583.3	2311755.5	3015.4	EDGE OF LINER

NOTE:

- LOCATIONS OF GRADING POINTS ARE SHOWN ON SHEET 4-13.

				<p>DISCLAIMER: THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES AND KNOW HOW OF MWH AS AUTHOR ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHOR. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.</p>			<p>DRAWING REFERENCE(S): <ul style="list-style-type: none"> EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDB8. PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USBM, NOV 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USBM MAPPING (NAD83/NAVDB8) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDB8 COORDINATES. ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVDB8 DATUM. </p>			<p>DESIGNED BY: S MCMANUS 06-15 DRAWN BY: K REED 06-15 CHECKED BY: T KELLEY 06-15 APPROVED BY: C STRACHAN 06-15 PROJECT MANAGER: V DRAIN 06-15</p>					PROJECT LOCATION: WELLPINIT, WASHINGTON			
				PROJECT: MIDNITE MINE		SHEET: 4-14 REVISION: 3												
							TITLE: PHASE 1 - PIT 4 SUB-WASTE LINER INSTALLATION GRADING POINTS		FILE NAME: 4-13 DATE: JUNE 2015									



LEGEND:

- SUBWASTE GEOMEMBRANE LINER
- - - EXISTING GROUND SURFACE
- REGRADED PIT BOTTOM
- ▨ DRAIN GRAVEL, DRAIN ROCK, AND/OR BEDDING MATERIAL

NOTE:

1. REFERENCED LINER TERMINATION DETAIL APPLIES TO AREAS WITHOUT ROCKFALL PROTECTION BERM.

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ISSUE/REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	KR	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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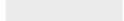
DRAWING REFERENCE(S):
* EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV088.
* PREMIERE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAV088) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

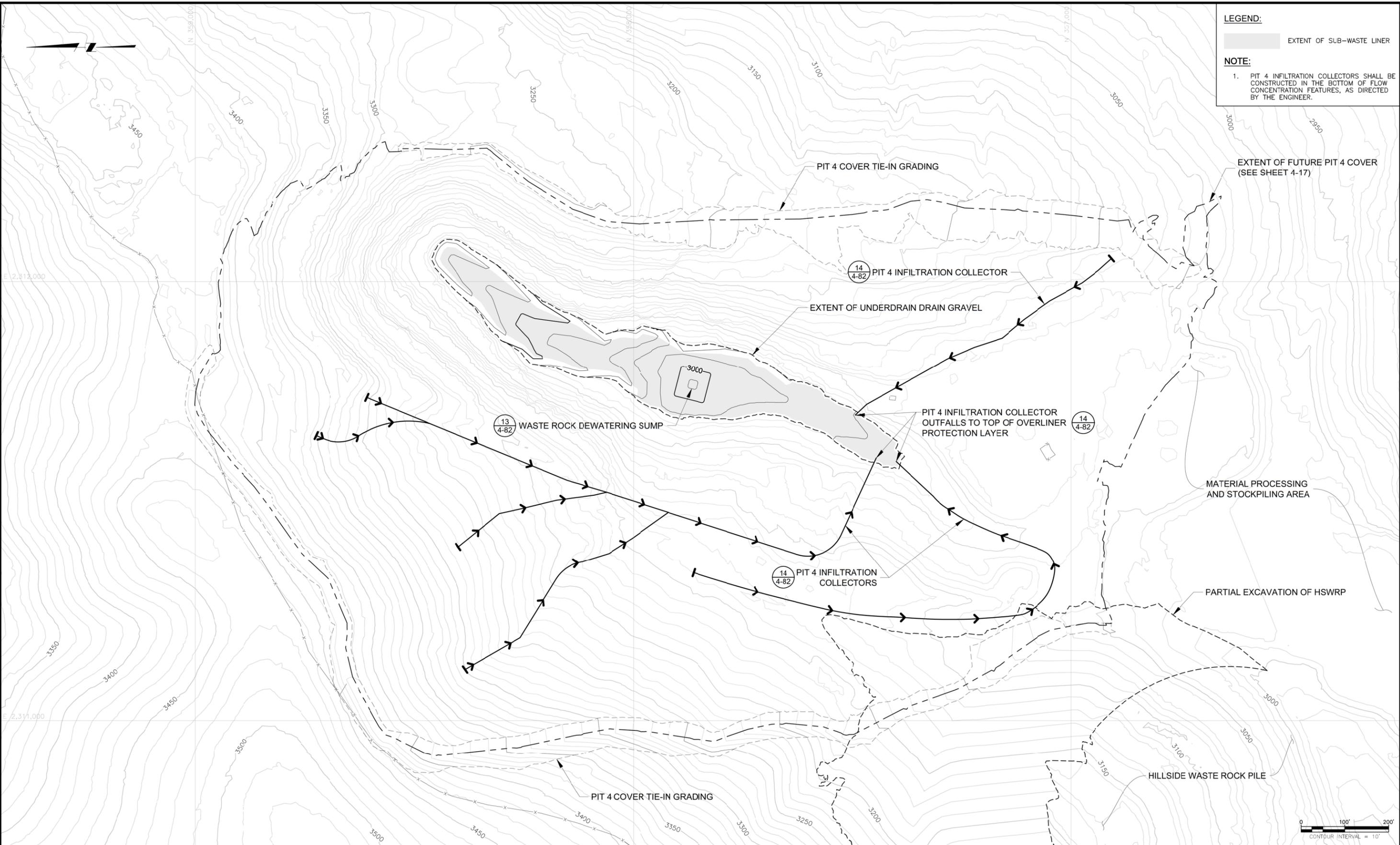


PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 SUB-WASTE LINER INSTALLATION SECTIONS	
SHEET	4-15	REVISION 3
FILE NAME	4-13	DATE JUNE 2015



LEGEND:
 EXTENT OF SUB-WASTE LINER

NOTE:
 1. PIT 4 INFILTRATION COLLECTORS SHALL BE CONSTRUCTED IN THE BOTTOM OF FLOW CONCENTRATION FEATURES, AS DIRECTED BY THE ENGINEER.



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
3		ISSUED FOR 100% DESIGN	KR	SM	06-15
2		ISSUED FOR 90% DESIGN	KR	SM	07-14
1		ISSUED FOR 60% DESIGN	KT	SM	12-13
0		ISSUED FOR 30% DESIGN	DM	SM	12-12

DISCLAIMER:
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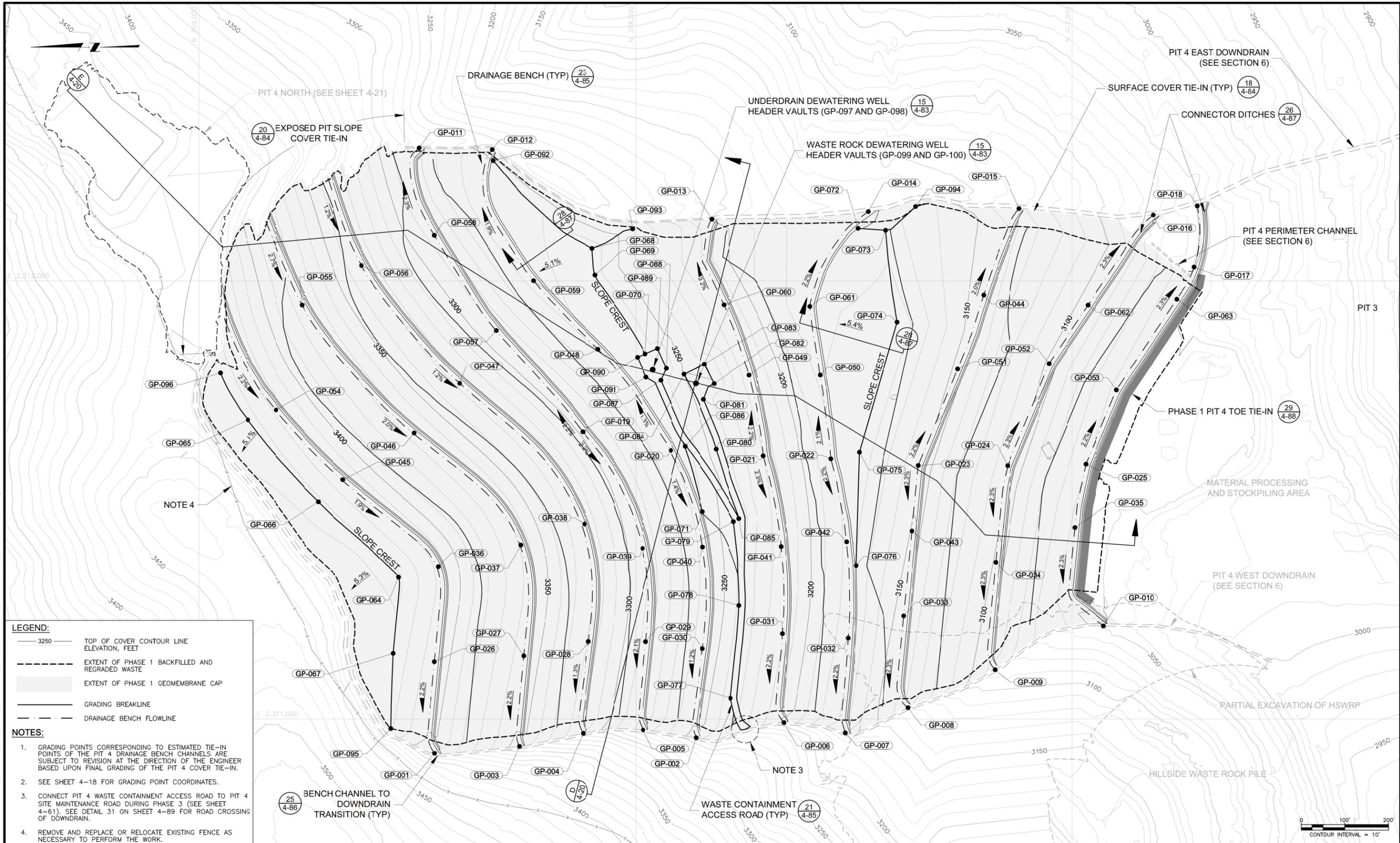
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88.
 * PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL AEGIS 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAV88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV88 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 INFILTRATION COLLECTION SYSTEM	

	SHEET	4-16	REVISION	3
	FILE NAME	4-15	DATE	JUNE 2015



LEGEND:

- 3250 — TOP OF COVER CONTOUR LINE ELEVATION, FEET
- - - - - EXTENT OF PHASE 1 BACKFILLED AND REGRADED WASTE
- EXTENT OF PHASE 1 GEOMEMBRANE CAP
- GRADING BREAKLINE
- - - - - DRAINAGE BENCH FLOWLINE

NOTES:

1. GRADING POINTS CORRESPONDING TO ESTIMATED TIE-IN POINTS OF THE PIT 4 DRAINAGE BENCH CHANNELS ARE SUBJECT TO REVISION AT THE DIRECTION OF THE ENGINEER BASED UPON FINAL GRADING OF THE PIT 4 COVER TIE-IN.
2. SEE SHEET 4-18 FOR GRADING POINT COORDINATES.
3. CONNECT PIT 4 WASTE CONTAINMENT ACCESS ROAD TO PIT 4 SITE MAINTENANCE ROAD DURING PHASE 3 (SEE SHEET 4-61). SEE DETAIL 31 ON SHEET 4-89 FOR ROAD CROSSING OF DOWNDRAIN.
4. REMOVE AND REPLACE OR RELOCATE EXISTING FENCE AS NECESSARY TO PERFORM THE WORK.

ISSUE NO.	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	KT	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV08S.
 * PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMIA, NOV. 1995 AND PROVIDED BY BARN MINE COMPANY, (UZZY/NOV05) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV08S COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

NEWMT.

PROJECT LOCATION	WELLPINOT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 TOP OF COVER GRADING PLAN	
SHEET	4-17	REVISION 3
FILE NAME	4-16	DATE JUNE 2015

MWH

P:\AMER\PWINT03\MWGLOBAL.COM\AM\PROJECTS03\DOCUMENTS\FTC2\NEWMT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\04_MINE EXCAV\4-16.dwg
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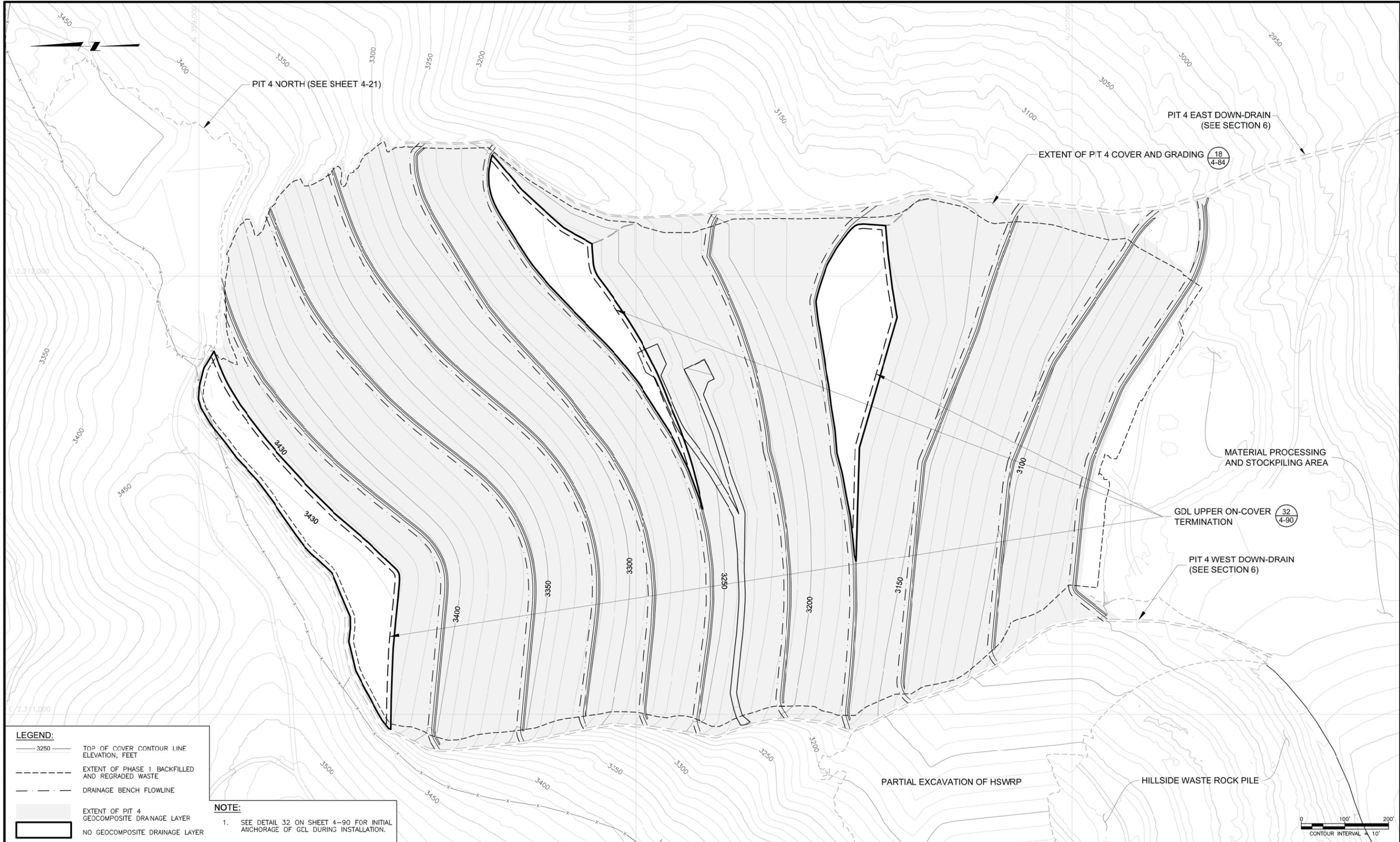
GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-001	358460.7	2310921.2	3388.4	DRAINAGE BENCH TIE-IN
GP-002	357862.2	2310957.4	3242.7	DRAINAGE BENCH TIE-IN
GP-003	358266.0	2310937.7	3342.7	DRAINAGE BENCH TIE-IN
GP-004	358'20.5	2310967.5	3309.4	DRAINAGE BENCH TIE-IN
GP-005	357983.3	2310975.2	3273.4	DRAINAGE BENCH TIE-IN
GP-006	357661.1	2310991.9	3196.8	DRAINAGE BENCH TIE-IN
GP-007	357520.1	2310968.4	3157.7	DRAINAGE BENCH TIE-IN
GP-008	357376.6	2311025.9	3132.0	DRAINAGE BENCH TIE-IN
GP-009	357177.0	2311112.7	3085.1	DRAINAGE BENCH TIE-IN
GP-010	356928.5	2311212.2	3048.8	DRAINAGE BENCH TIE-IN
GP-011	358496.3	2312304.5	3272.1	DRAINAGE BENCH TIE-IN
GP-012	358328.4	2312300.6	3245.9	DRAINAGE BENCH TIE-IN
GP-013	357825.3	2312141.1	3198.9	DRAINAGE BENCH TIE-IN
GP-014	357467.3	2312158.3	3163.9	DRAINAGE BENCH TIE-IN
GP-015	357122.0	2312165.1	3131.5	DRAINAGE BENCH TIE-IN
GP-016	356815.0	2312150.6	3072.8	DRAINAGE BENCH TIE-IN
GP-017	356721.5	2312031.7	3049.9	FLOWLINE AT EDGE OF COVER
GP-018	356714.3	2312171.2	3049.0	CONNECTOR DITCH TIE-IN TO DOWNDRAIN
GP-019	358121.6	2311655.5	3298.0	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-020	357919.6	2311613.2	3260.4	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-021	357707.6	2311600.7	3220.0	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-022	357553.0	2311593.9	3182.3	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-023	357352.8	2311578.8	3152.4	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-024	357148.4	2311578.3	3103.5	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-025	356969.0	2311581.8	3060.9	DRAINAGE BENCH FLOW LINE GRADE BREAK
GP-026	358461.3	2311130.9	3403.8	DRAINAGE BENCH FLOW LINE
GP-027	358256.3	2311144.1	3354.0	DRAINAGE BENCH FLOW LINE
GP-028	358108.4	2311177.0	3319.2	DRAINAGE BENCH FLOW LINE
GP-029	357977.2	2311176.5	3287.0	DRAINAGE BENCH FLOW LINE
GP-030	357847.0	2311160.7	3254.3	DRAINAGE BENCH FLOW LINE
GP-031	357664.6	2311194.8	3210.8	DRAINAGE BENCH FLOW LINE
GP-032	357513.5	2311184.8	3173.0	DRAINAGE BENCH FLOW LINE
GP-033	357386.5	2311235.2	3144.6	DRAINAGE BENCH FLOW LINE
GP-034	357175.3	2311357.4	3098.5	DRAINAGE BENCH FLOW LINE
GP-035	356993.7	2311437.5	3057.6	DRAINAGE BENCH FLOW LINE
GP-036	358452.1	2311347.5	3408.6	DRAINAGE BENCH FLOW LINE
GP-037	358263.0	2311397.7	3359.4	DRAINAGE BENCH FLOW LINE
GP-038	358117.5	2311445.5	3322.8	DRAINAGE BENCH FLOW LINE
GP-039	357984.5	2311390.2	3291.4	DRAINAGE BENCH FLOW LINE
GP-040	357846.5	2311393.2	3257.1	DRAINAGE BENCH FLOW LINE
GP-041	357667.3	2311394.2	3215.3	DRAINAGE BENCH FLOW LINE
GP-042	357517.1	2311405.1	3178.0	DRAINAGE BENCH FLOW LINE
GP-043	357367.4	2311429.6	3149.1	DRAINAGE BENCH FLOW LINE
GP-044	357202.7	2311967.9	3143.4	DRAINAGE BENCH FLOW LINE
GP-045	358670.9	2311546.5	3414.1	DRAINAGE BENCH FLOW LINE
GP-046	358507.8	2311652.7	3366.5	DRAINAGE BENCH FLOW LINE
GP-047	358403.4	2311765.7	3327.6	DRAINAGE BENCH FLOW LINE
GP-048	358086.9	2311844.2	3259.4	DRAINAGE BENCH FLOW LINE
GP-049	357740.9	2311784.5	3215.8	DRAINAGE BENCH FLOW LINE
GP-050	357577.6	2311784.7	3178.3	DRAINAGE BENCH FLOW LINE

GRADING POINTS				
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
GP-051	357262.8	2311798.5	3147.1	DRAINAGE BENCH FLOW LINE
GP-052	357052.9	2311811.2	3097.9	DRAINAGE BENCH FLOW LINE
GP-053	356899.4	2311750.7	3056.8	DRAINAGE BENCH FLOW LINE
GP-054	358824.0	2311705.1	3418.4	DRAINAGE BENCH FLOW LINE
GP-055	358765.0	2311945.0	3375.0	DRAINAGE BENCH FLOW LINE
GP-056	358628.7	2312035.2	3332.1	DRAINAGE BENCH FLOW LINE
GP-057	358319.3	2311887.0	3291.4	DRAINAGE BENCH FLOW LINE
GP-058	358461.3	2312104.1	3285.7	DRAINAGE BENCH FLOW LINE
GP-059	358234.2	2312000.7	3256.1	DRAINAGE BENCH FLOW LINE
GP-060	357798.2	2311945.6	3212.0	DRAINAGE BENCH FLOW LINE
GP-061	357601.4	2311941.9	3174.9	DRAINAGE BENCH FLOW LINE
GP-062	356964.3	2311944.9	3094.2	DRAINAGE BENCH FLOW LINE
GP-063	356761.3	2311958.3	3051.2	DRAINAGE BENCH FLOW LINE
GP-064	358543.8	2311323.7	3432.0	SLOPE CREST
GP-065	358888.4	2311682.5	3434.8	SLOPE CREST
GP-066	358726.8	2311496.1	3432.3	SLOPE CREST
GP-067	358556.1	2311149.9	3427.9	SLOPE CREST
GP-068	358100.0	2312074.2	3265.3	SLOPE CREST
GP-069	358093.4	2312013.5	3264.4	SLOPE CREST
GP-070	357978.5	2311833.5	3266.0	SLOPE CREST
GP-071	357846.9	2311473.7	3260.1	SLOPE CREST
GP-072	357490.6	2312120.1	3171.5	SLOPE CREST
GP-073	357427.5	2312115.7	3176.7	SLOPE CREST
GP-074	357401.4	2311906.1	3187.0	SLOPE CREST
GP-075	357487.5	2311609.0	3186.9	SLOPE CREST
GP-076	357495.2	2311349.9	3178.7	SLOPE CREST
GP-077	357782.9	2311047.5	3234.3	EDGE OF ROAD
GP-078	357763.6	2311259.1	3238.5	EDGE OF ROAD
GP-079	357775.8	2311451.0	3241.9	EDGE OF ROAD
GP-080	357815.8	2311616.1	3245.7	EDGE OF ROAD
GP-081	357844.4	2311729.4	3248.6	EDGE OF ROAD
GP-082	357820.2	2311765.1	3249.8	EDGE OF MAINTENANCE PAD
GP-083	357842.3	2311809.9	3250.9	EDGE OF MAINTENANCE PAD
GP-084	357889.3	2311786.7	3249.9	EDGE OF MAINTENANCE PAD
GP-085	357763.7	2311458.0	3242.3	EDGE OF ROAD
GP-086	357886.7	2311622.4	3262.8	EDGE OF ROAD
GP-087	357942.7	2311772.8	3266.2	EDGE OF MAINTENANCE PAD
GP-088	357930.5	2311800.0	3266.7	EDGE OF MAINTENANCE PAD
GP-089	357950.6	2311845.8	3266.7	EDGE OF MAINTENANCE PAD
GP-090	357996.4	2311825.7	3265.7	EDGE OF MAINTENANCE PAD
GP-091	357976.3	2311779.9	3265.7	EDGE OF MAINTENANCE PAD
GP-092	358326.5	2312275.3	3252.3	SLOPE CREST
GP-093	358007.6	2312118.9	3241.1	BREAK LINE
GP-094	357358.8	2312169.8	3165.2	BREAK LINE
GP-095	358561.3	2310978.3	3421.2	SLOPE CREST
GP-096	358950.6	2311789.5	3436.0	SLOPE CREST
GP-097	357959.1	2311792.8	3266.1	UNDERDRAIN DEWATERING RISER
GP-098	357963.3	2311802.4	3266.1	UNDERDRAIN DEWATERING RISER
GP-099	357866.1	2311760.3	3249.3	WASTE ROCK DEWATERING RISER
GP-100	357863.6	2311770.0	3249.6	WASTE ROCK DEWATERING RISER

NOTES:

- ELEVATIONS SHOWN REFER TO FINISHED GRADE AT TOP OF SOIL COVER.
- REFER TO DETAIL 15 ON SHEET 4-82 FOR WELL HEADER CONSTRUCTION INFORMATION.
- LOCATION OF GRADING POINTS ARE SHOWN ON SHEET 4-17.

<p>DISCLAIMER: THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES AND KNOW HOW OF MWH AS AUTHOR ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHOR. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.</p>		<p>DRAWING REFERENCE(S): * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88. * PRELIM TOPOGRAPHY AND FIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USMMA MAPPING (NAD83/NAV88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV88. * ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAV88 DATUM.</p>		<p>DESIGNED BY: S MCMANUS 06-15 DRAWN BY: K REED 06-15 CHECKED BY: T KELLEY 06-15 APPROVED BY: C STRACHAN 06-15 PROJECT MANAGER: V DRAIN 06-15</p>		<p>PROJECT LOCATION: WELLPINIT, WASHINGTON PROJECT: MIDNITE MINE TITLE: PHASE 1 - PIT 4 TOP OF COVER GRADING POINT TABLE</p>			
3	ISSUED FOR 100% DESIGN	KR	SM	06-15				SHEET 4-18	REVISION 3
2	ISSUED FOR 90% DESIGN	KR	SM	07-14				FILE NAME 4-16	DATE JUNE 2015
ISSUE/REV	DESCRIPTION	TECH	ENG	DATE					



LEGEND:

- 3250 TOP OF COVER CONTOUR LINE ELEVATION, FEET
- EXTENT OF PHASE 1 BACKFILLED AND REGRADED WASTE
- DRAINAGE BENCH FLOWLINE
- EXTENT OF PIT 4 GEOCOMPOSITE DRAINAGE LAYER
- NO GEOCOMPOSITE DRAINAGE LAYER

NOTE:
 1. SEE DETAIL 32 ON SHEET 4-90 FOR INITIAL ANCHORAGE OF GCL DURING INSTALLATION.

ISSUE/REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	KR	SM	07-14
1	ISSUED FOR 60% DESIGN	DM	SM	12-13

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DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 * PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, JULY 1995 AND PROVIDED BY DAWN MINING COMPANY, UTM ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD27/NAVDS78) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.

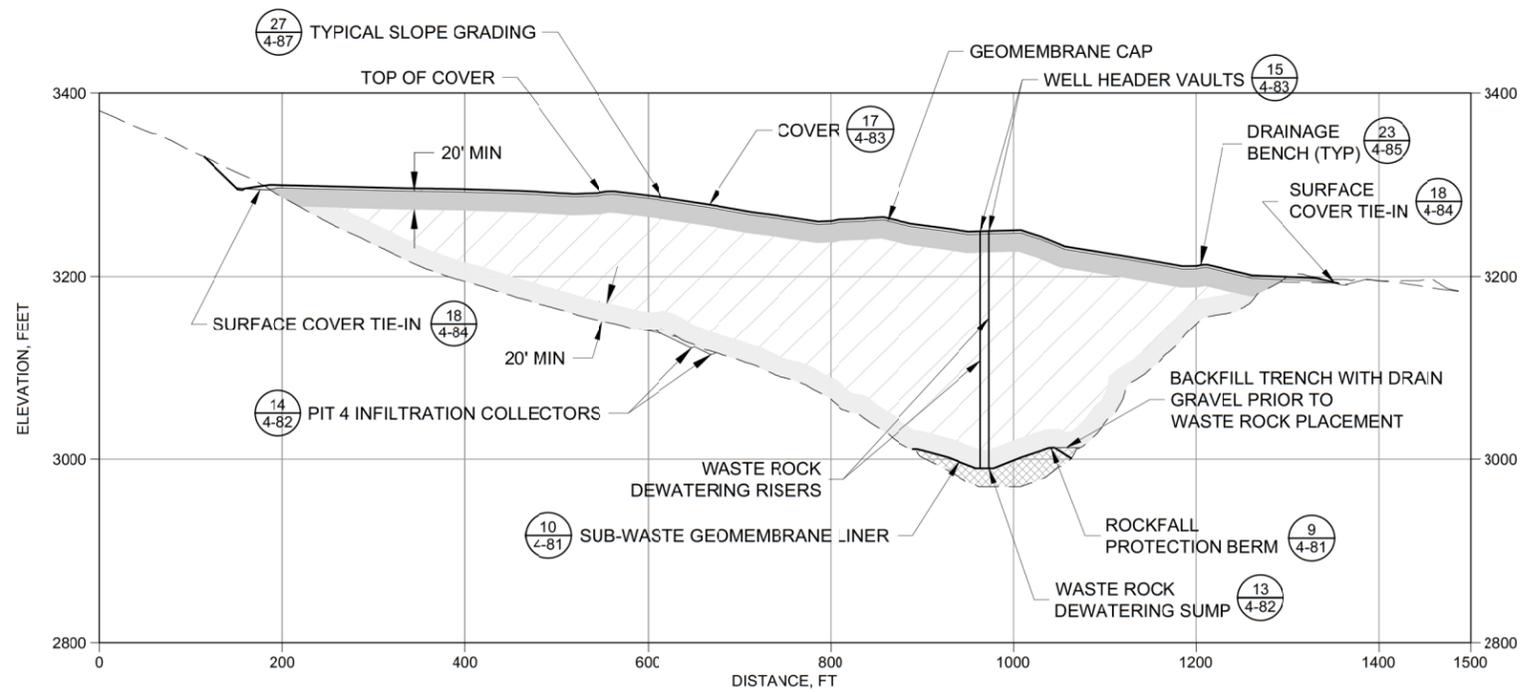
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - EXTENT OF PIT 4 GEOCOMPOSITE DRAINAGE LAYER	

	SHEET	4-19	REVISION	3
	FILE NAME	4-18	DATE	JUNE 2015

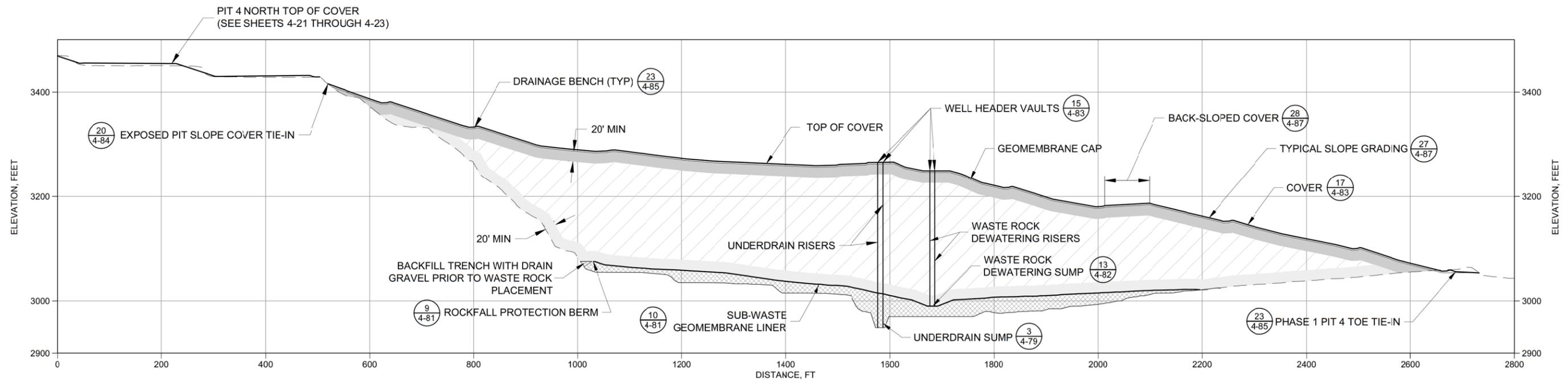
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LEGEND:

- EXISTING GROUND SURFACE
- REGRADED PIT BOTTOM
- UNCLASSIFIED WASTE
- LOW-REACTIVITY WASTE
- DRAIN GRAVEL, DRAIN ROCK, AND/OR BEDDING MATERIAL
- LOW-ACTIVITY WASTE

D PIT 4 BACKFILL
4-17



E PIT 4 BACKFILL
4-17

P:\AMER\P\W\03\W\GLOBAL\COM\AM\PROJECTS\03\DOCUMENTS\03\FC2\NEW\04\MINE EXCAV\4-19.dwg

ISSUE/REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	KR	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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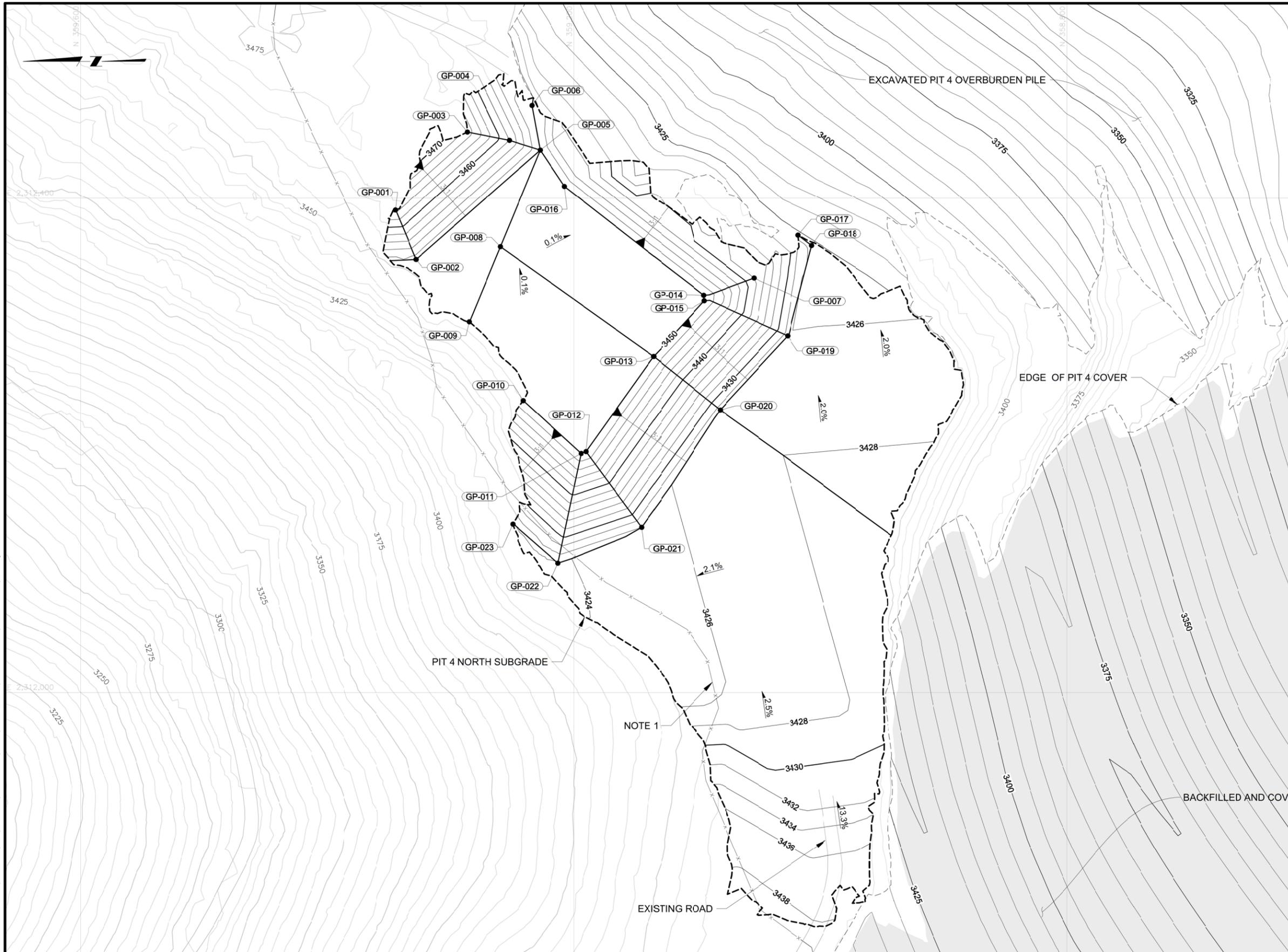
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV088.
 * PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USMMA MAPPING (NAD27/NAV029) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PHASE 1 - PIT 4 BACKFILL SECTIONS	
SHEET	4-20	REVISION 3
FILE NAME	4-19	DATE JUNE 2015





- LEGEND:**
- EXTENT OF PIT 4 BACKFILLED MINE WASTE
- NOTES:**
- REMOVE AND REPLACE OR RELOCATE EXISTING FENCE AS NECESSARY TO PERFORM THE WORK.
 - PIT 4 NORTH SUBGRADE IS SHOWN WITH 2' CONTOURS FOR CLARITY.
 - SUBGRADE CONTOURS SHOWN AND GRADING POINTS LISTED REFLECT ESTIMATED GROUND SURFACE AFTER REMOVAL AND LAY-BACK EXCAVATION OF ROCK CUT SLOPES.
 - EXCAVATED NATIVE SOIL AND ROCK MATERIAL NOT MEETING SOIL CLEAN-UP STANDARDS SHALL BE RELOCATED TO PIT 4 WCA.

GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	359344.8	2312390.3	3464.6
GP-002	359328.1	2312350.2	3451.0
GP-003	359286.4	2312453.6	3467.3
GP-004	359252.3	2312446.9	3457.6
GP-005	359227.3	2312439.0	3450.0
GP-006	359233.9	2312475.0	3450.0
GP-007	359054.1	2312335.2	3438.0
GP-008	359259.6	2312360.6	3450.2
GP-009	359284.9	2312299.9	3450.1
GP-010	359241.0	2312236.1	3450.0
GP-011	359194.1	2312193.2	3449.8
GP-012	359190.0	2312194.7	3449.9
GP-013	359135.3	2312271.9	3450.0
GP-014	359094.7	2312321.2	3450.0
GP-015	359094.3	2312316.9	3450.0
GP-016	359207.7	2312409.5	3450.0
GP-017	359018.1	2312369.9	3425.0
GP-018	359007.3	2312361.5	3425.0
GP-019	359026.8	2312288.5	3427.0
GP-020	359081.4	2312228.5	3427.2
GP-021	359145.1	2312133.7	3425.9
GP-022	359213.0	2312104.8	3423.7
GP-023	359249.5	2312136.3	3423.5

NOTE 1

P:\AMER\PWINT03\MW\GLOBAL.COM\AM\PROJECTS\03\DOCUMENTS\FC23_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\04_MINE EXCAV\4-20.dwg

<p>DISCLAIMER: THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES AND KNOW HOW OF MWH AS AUTHOR ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING ITS PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE INVOLVEMENT AND CONSENT OF THE AUTHOR. ANY ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.</p>				<p>DRAWING REFERENCE(S):</p> <ul style="list-style-type: none"> EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88. PREMISE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USMMA MAPPING (NAD83/NAV88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV88 COORDINATES. ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAV88 DATUM. 				<p>DESIGNED BY: S MCMANUS 06-15</p> <p>DRAWN BY: K REED 06-15</p> <p>CHECKED BY: T KELLEY 06-15</p> <p>APPROVED BY: C STRACHAN 06-15</p> <p>PROJECT MANAGER: V DRAIN 06-15</p>		<p>PROJECT LOCATION: WELLPINIT, WASHINGTON</p> <p>PROJECT: MIDNITE MINE</p> <p>TITLE: PHASE 1 - PIT 4 NORTH SUBGRADE GRADING PLAN</p>		<p>0 40' 80'</p> <p>CONTOUR INTERVAL = 5'</p>	
3	ISSUED FOR 100% DESIGN	KR	SM	06-15			<p>SHEET: 4-21</p> <p>REVISION: 3</p>						
2	ISSUED FOR 90% DESIGN	KR	SM	07-14	<p>PROJECT LOCATION: WELLPINIT, WASHINGTON</p>		<p>FILE NAME: 4-20</p> <p>DATE: JUNE 2015</p>						
1	ISSUED FOR 75% DESIGN	TECH	ENG	DATE			<p>REVISION: 3</p> <p>DATE: JUNE 2015</p>						