

LEGEND:
 [Shaded Box] EXTENTS OF POND LINER

NOTES:

1. THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED.
2. CONDITIONS SHOWN REPRESENT END OF PHASE 2.

P:\AMER\PROJECTS\3\MW\GLOBAL\COM_AM_PROJECTS\3\DOCUMENTS\FC2\NEWMONT\MIDNIGHT MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-1.dwg
 E 2,310,000
 N 10,000,000

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:
 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.

DRAWING REFERENCE(S):

- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
- PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PROVIDED BY USDM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.

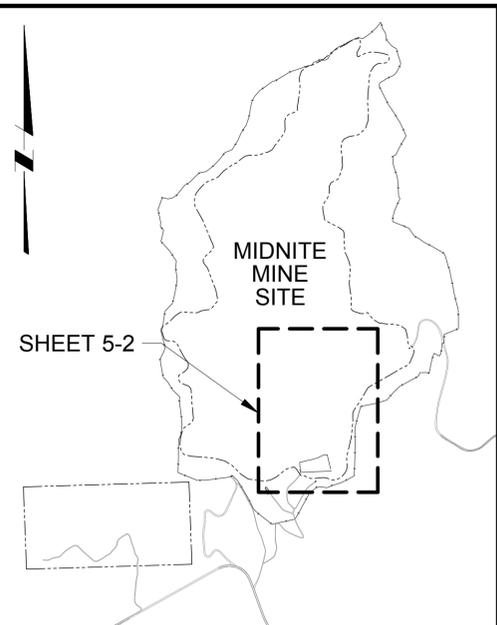
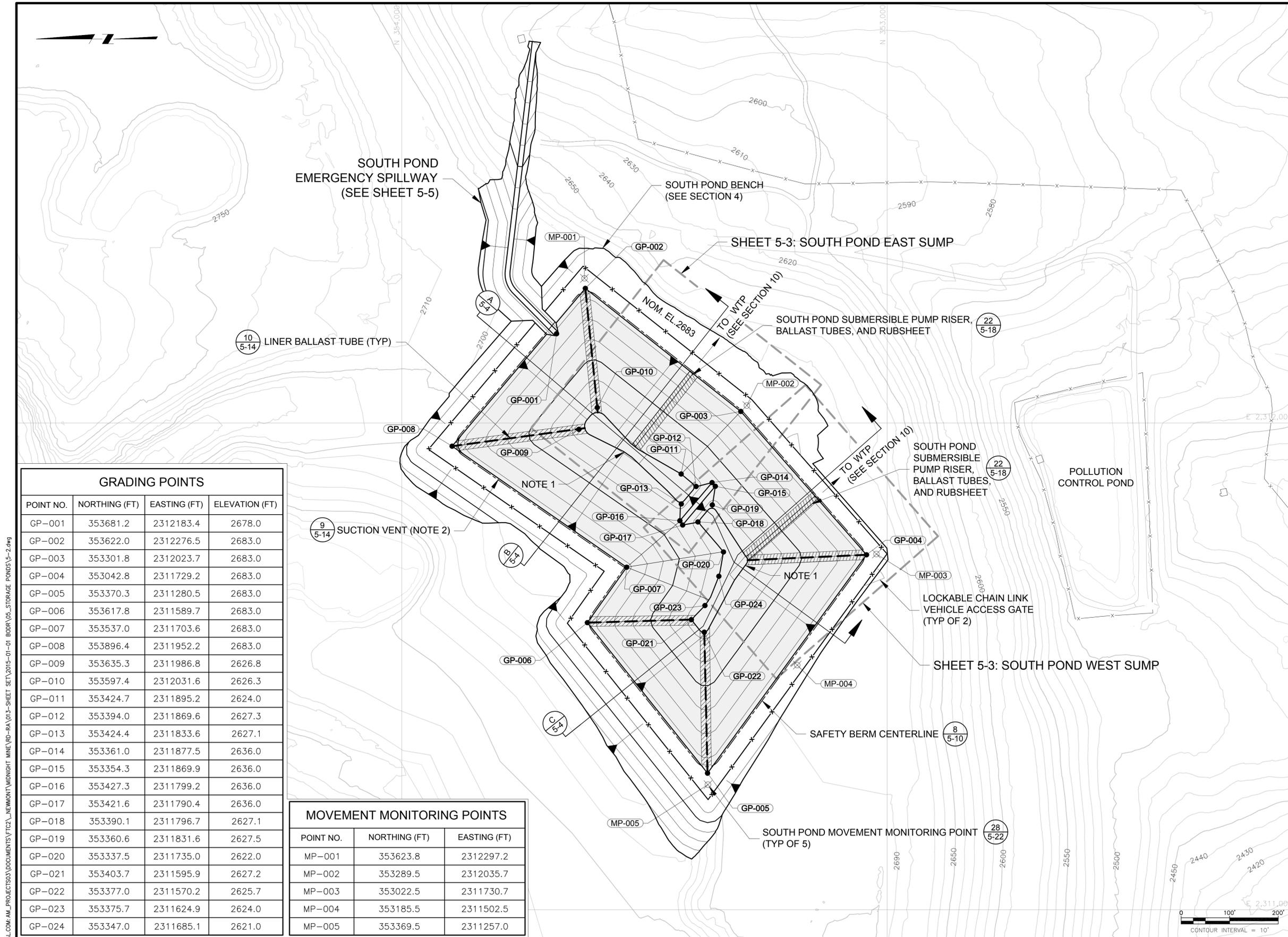
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	STORAGE PONDS GENERAL LAYOUT	

SHEET	5-1	REVISION	3
FILE NAME	5-1	DATE	JUNE 2015





KEY MAP
NOT TO SCALE

LEGEND

- EXTENT OF POND LINER
- RUBSHEET (NOTE 3)
- LINER BALLAST TUBE
- CHAIN LINK FENCE
- MOVEMENT MONITORING POINT

NOTES:

1. SEE SHEET 5-3 FOR ADDITIONAL INFORMATION REGARDING SOUTH POND SUMPS.
2. SUCTION VENTS WILL BE INSTALLED EVERY 50' AROUND THE LINER PERIMETER.
3. EXTRUSION WELD A FULL PANEL WIDTH RUBSHEET TO THE PRIMARY CONTAINMENT LINER AT THE LOCATIONS SHOWN, EXTRUSION WELD TO BE CONTINUOUS (SPOT WELDING WILL NOT BE ACCEPTED).

GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	353681.2	2312183.4	2678.0
GP-002	353622.0	2312276.5	2683.0
GP-003	353301.8	2312023.7	2683.0
GP-004	353042.8	2311729.2	2683.0
GP-005	353370.3	2311280.5	2683.0
GP-006	353617.8	2311589.7	2683.0
GP-007	353537.0	2311703.6	2683.0
GP-008	353896.4	2311952.2	2683.0
GP-009	353635.3	2311986.8	2626.8
GP-010	353597.4	2312031.6	2626.3
GP-011	353424.7	2311895.2	2624.0
GP-012	353394.0	2311869.6	2627.3
GP-013	353424.4	2311833.6	2627.1
GP-014	353361.0	2311877.5	2636.0
GP-015	353354.3	2311869.9	2636.0
GP-016	353427.3	2311799.2	2636.0
GP-017	353421.6	2311790.4	2636.0
GP-018	353390.1	2311796.7	2627.1
GP-019	353360.6	2311831.6	2627.5
GP-020	353337.5	2311735.0	2622.0
GP-021	353403.7	2311595.9	2627.2
GP-022	353377.0	2311570.2	2625.7
GP-023	353375.7	2311624.9	2624.0
GP-024	353347.0	2311685.1	2621.0

MOVEMENT MONITORING POINTS		
POINT NO.	NORTHING (FT)	EASTING (FT)
MP-001	353623.8	2312297.2
MP-002	353289.5	2312035.7
MP-003	353022.5	2311730.7
MP-004	353185.5	2311502.5
MP-005	353369.5	2311257.0

P:\AMER\PROJECTS\3\MIDNITE\MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-2.dwg
 PW:AMER\PROJECTS\3\MIDNITE\MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-2.dwg

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 COVERING 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.

DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 • PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, NOV. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.
 • CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE I.
 • ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVDS88 DATUM.

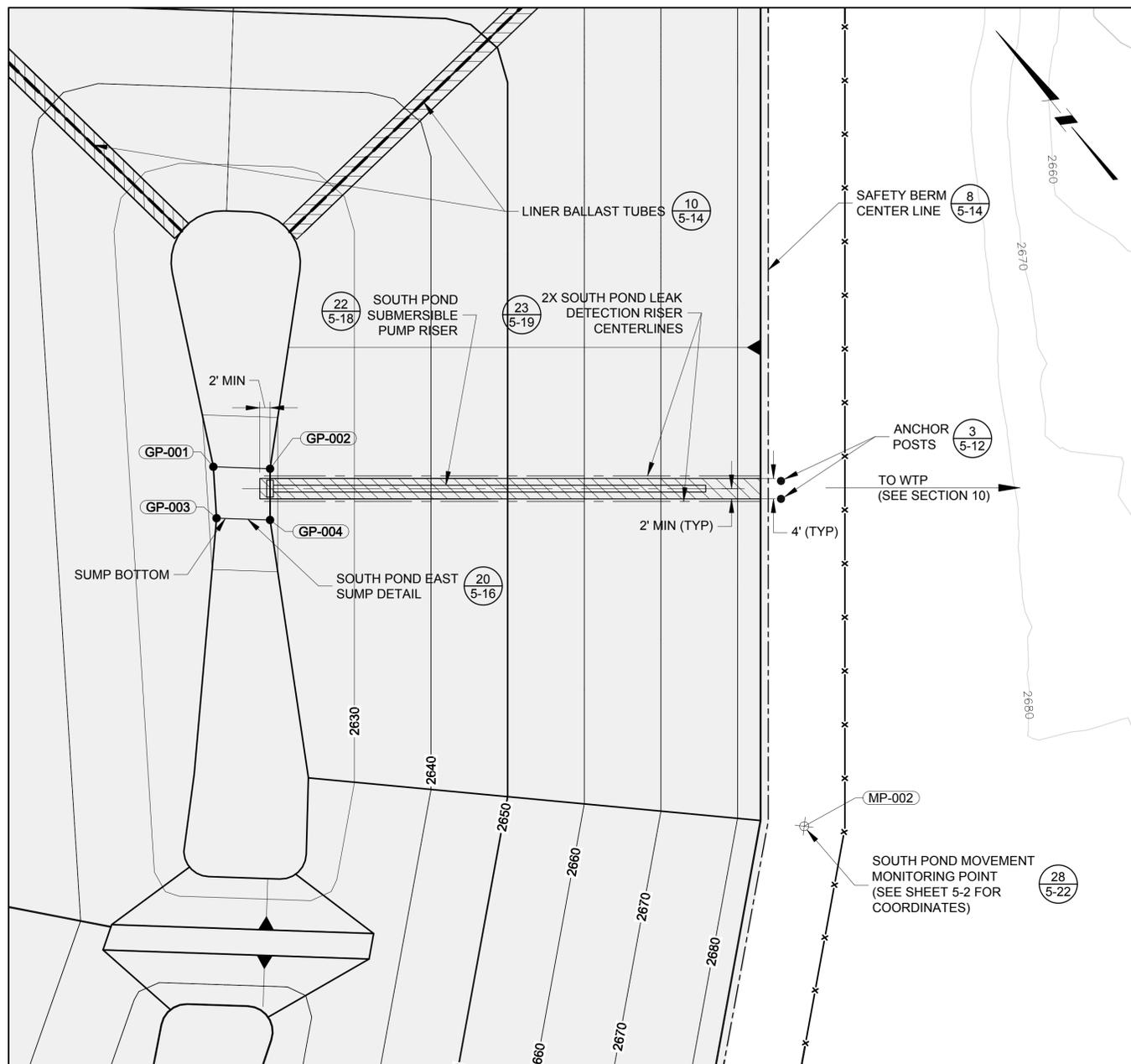
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



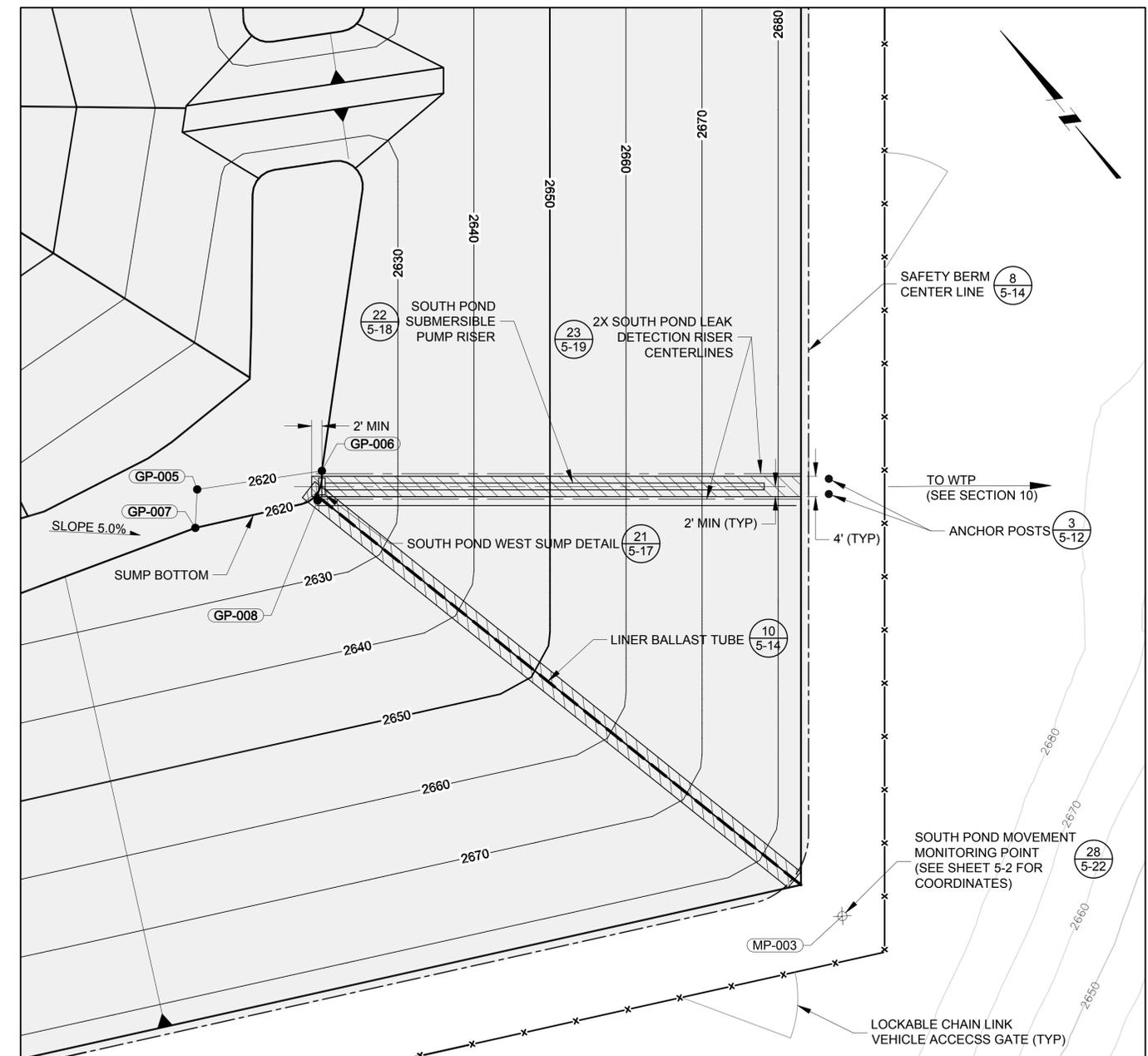
PROJECT LOCATION	WELLPOINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SOUTH POND GRADING PLAN	

	SHEET	5-2	REVISION	3
	FILE NAME	5-2	DATE	JUNE 2015

P:\AMER\PROJECTS\3\MIDNITE\PROJECTS\3\DOCUMENTS\FIC2\NEWMONT\MIDNITE\MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-3.dwg



SOUTH POND EAST SUMP



SOUTH POND WEST SUMP

EAST SUMP GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	353542.94	2311941.18	2619.0
GP-002	353528.59	2311958.13	2619.0
GP-003	353526.42	2311929.74	2619.0
GP-004	353512.88	2311945.73	2619.0

- LEGEND:**
- EXTENT OF POND LINER SYSTEM
 - 60-MIL TEXTURED HDPE RUBSHEET EXTRUSION WELDED TO POND PRIMARY CONTAINMENT LINER (NOTE 1)
 - CHAIN LINK FENCE

- NOTE:**
- EXTRUSION WELD A FULL PANEL WIDTH RUBSHEET TO THE PRIMARY CONTAINMENT LINER AT THE LOCATIONS SHOWN. EXTRUSION WELD TO BE CONTINUOUS (SPOT WELDING WILL NOT BE ACCEPTED).

WEST SUMP GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-005	353324.39	2311688.74	2620.0
GP-006	353292.28	2311726.69	2620.0
GP-007	353314.96	2311676.88	2620.0
GP-008	353285.84	2311716.79	2620.0



ISSUE NO.	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

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.

DRAWING REFERENCE(S):

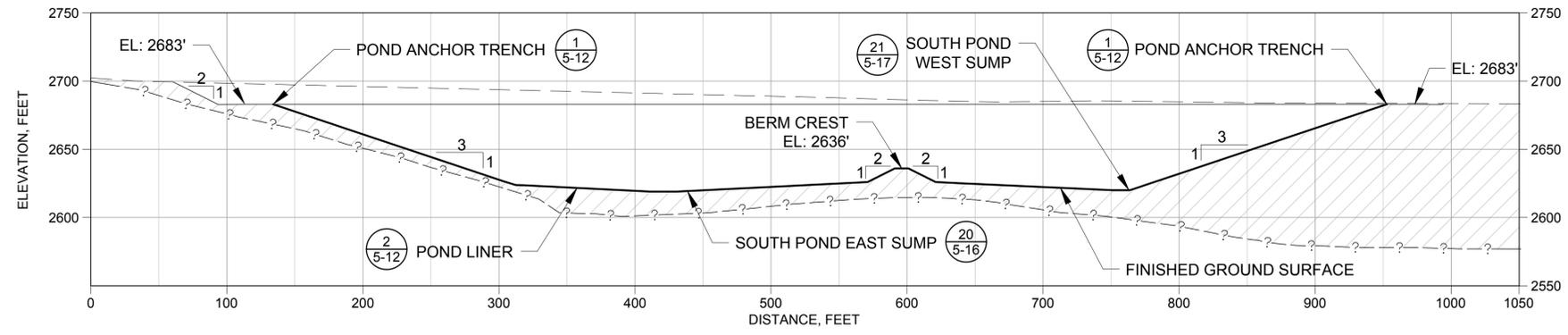
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD83/NAV88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV88.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE I.
- ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAV88 DATUM.

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

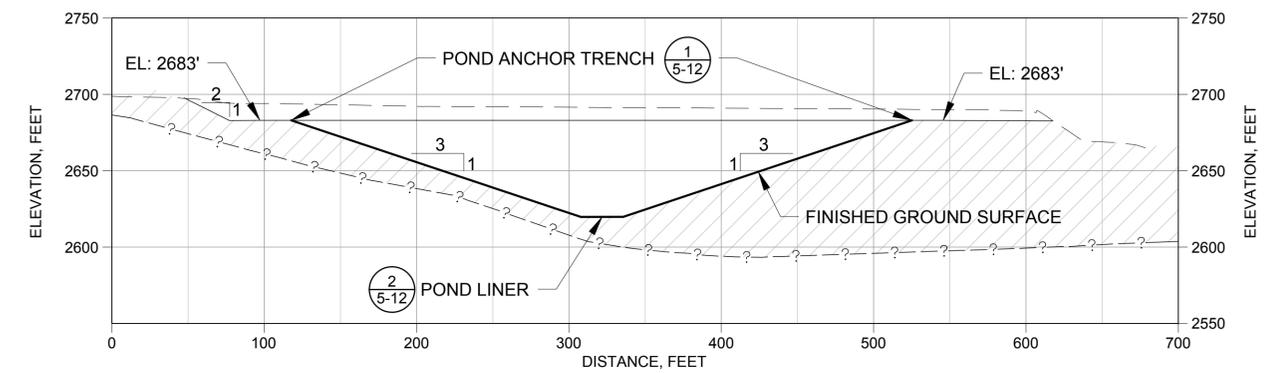


PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SOUTH POND SUMP PLAN	

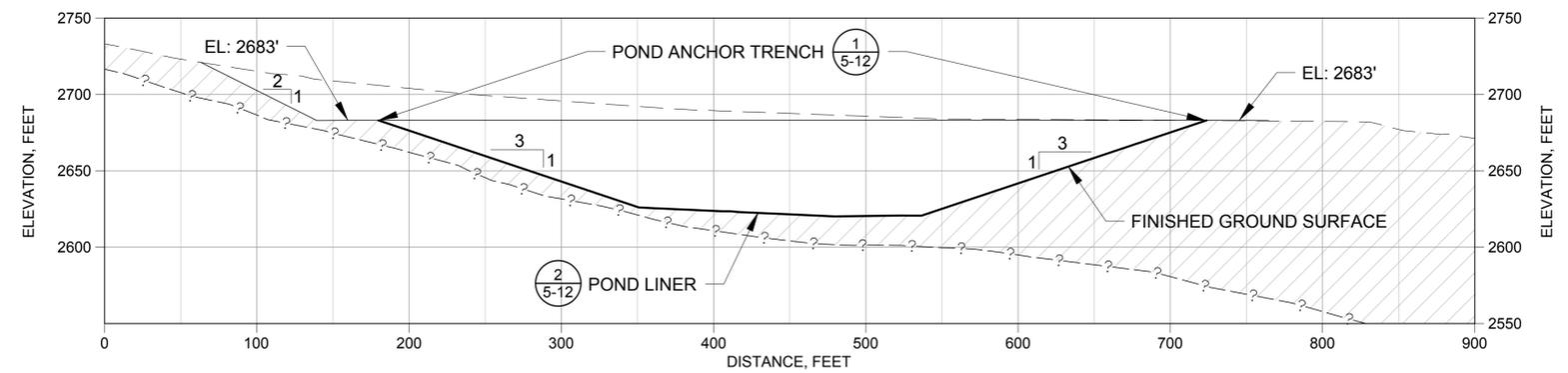
SHEET	5-3	REVISION	3
	FILE NAME		5-3



A
SOUTH POND
5-2



B
SOUTH POND
5-2



C
SOUTH POND
5-2

- LEGEND:**
- GROUND SURFACE AFTER STOCKPILE REMOVAL (SEE SECTION 4)
 - SOUTH POND BENCH GROUND SURFACE
 - EXTENT OF POND LINER
 - APPROXIMATE NATIVE GROUND SURFACE
 - MINE WASTE

PW:\AMER\PW\103\MW\GLOBAL\COM\AM\PROJECTS\03\DOCUMENTS\FC2\NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\05_STORAGE_PONDS\5-2.dwg

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:
 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.

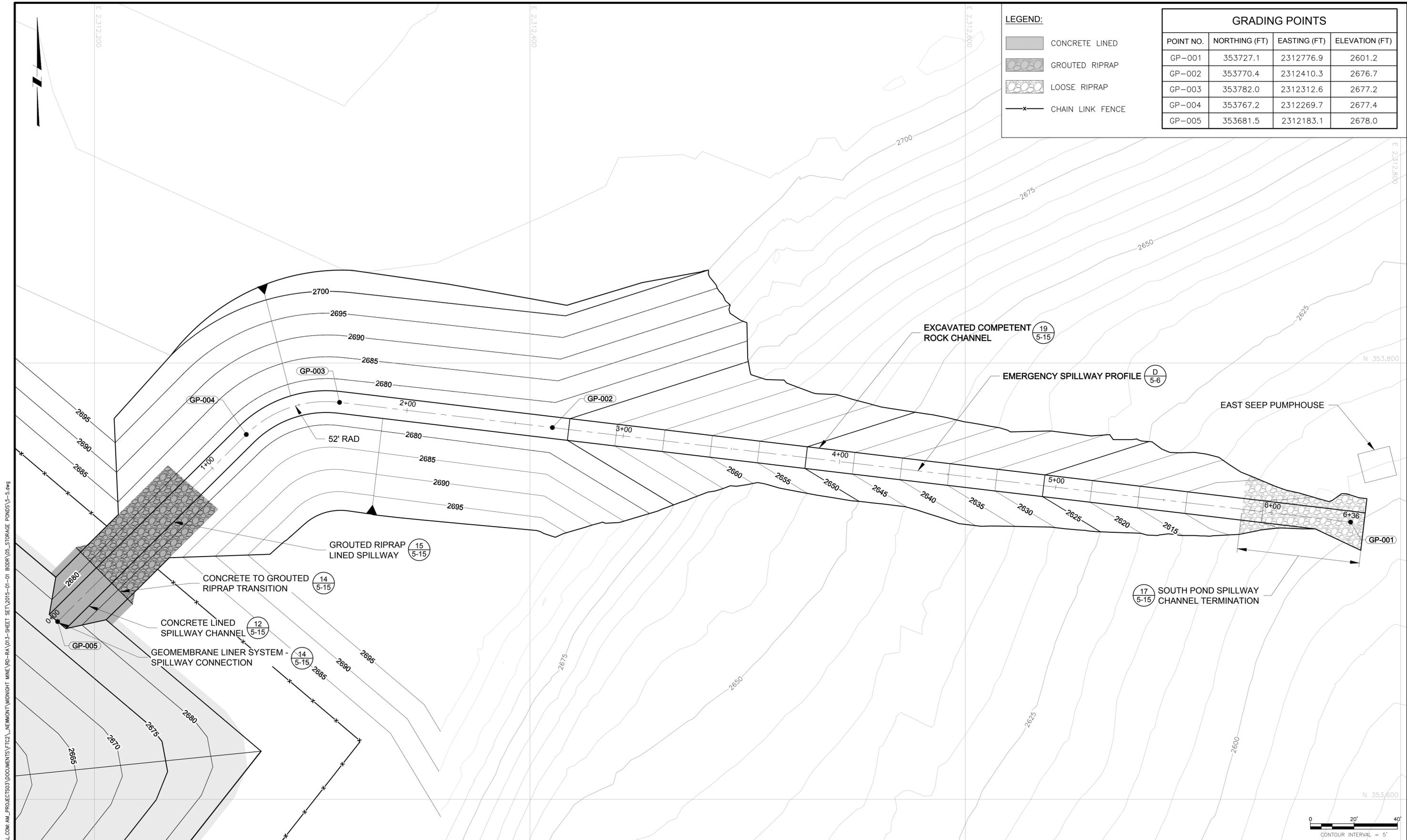
DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 • PRE-MINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USM, JULY 1995 AND USED IN USM MAPPING (W027/NOV028) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	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	SOUTH POND SECTIONS	

	SHEET	5-4	REVISION	3
	FILE NAME	5-2	DATE	JUNE 2015



LEGEND:

-  CONCRETE LINED
-  GROUTED RIPRAP
-  LOOSE RIPRAP
-  CHAIN LINK FENCE

GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	353727.1	2312776.9	2601.2
GP-002	353770.4	2312410.3	2676.7
GP-003	353782.0	2312312.6	2677.2
GP-004	353767.2	2312269.7	2677.4
GP-005	353681.5	2312183.1	2678.0

P:\AMER\WELLPINT03\MWG\GLOBAL.COM_AM_PROJECTS\03\DOCUMENTS\F023_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-5.dwg
 3
 2
 1
 ISSUE
 REV

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.

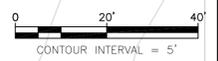
DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 • PREMINE TOPOGRAPHY AND BIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USBM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USBM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.
 • CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 1.
 • ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVDS88 DATUM.

DESIGNED BY	C BERNEDO	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



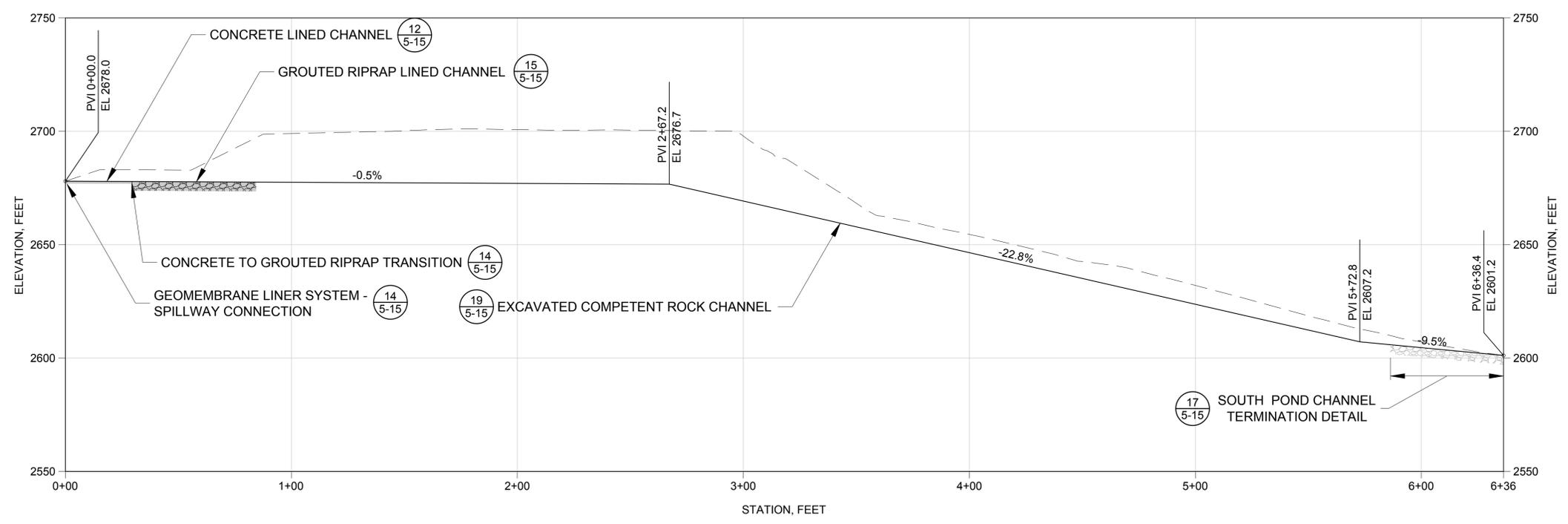
PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SOUTH POND EMERGENCY SPILLWAY GRADING PLAN	

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

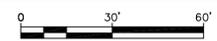


LEGEND:

	ESTIMATED GROUND SURFACE AFTER COMPLETION OF PHASE 1 WASTE REMOVAL
	FINISHED GRADE
	LOOSE RIPRAP
	GROUTED RIPRAP
	REINFORCED CONCRETE



D
5-5 SOUTH POND EMERGENCY SPILLWAY PROFILE



P:\AMER\PROJECTS\3\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-5.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

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.

DRAWING REFERENCE(S):

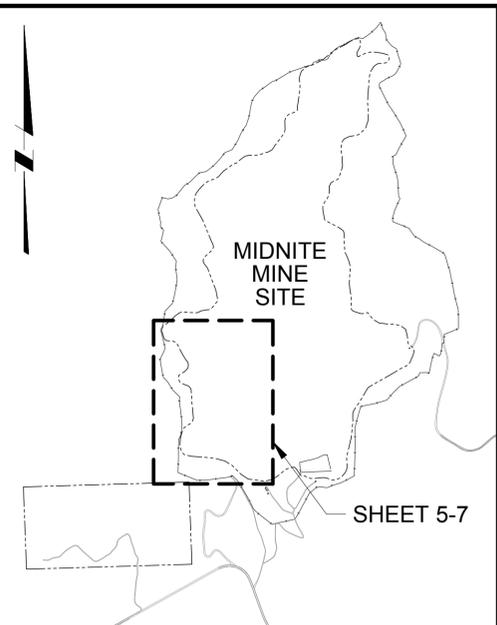
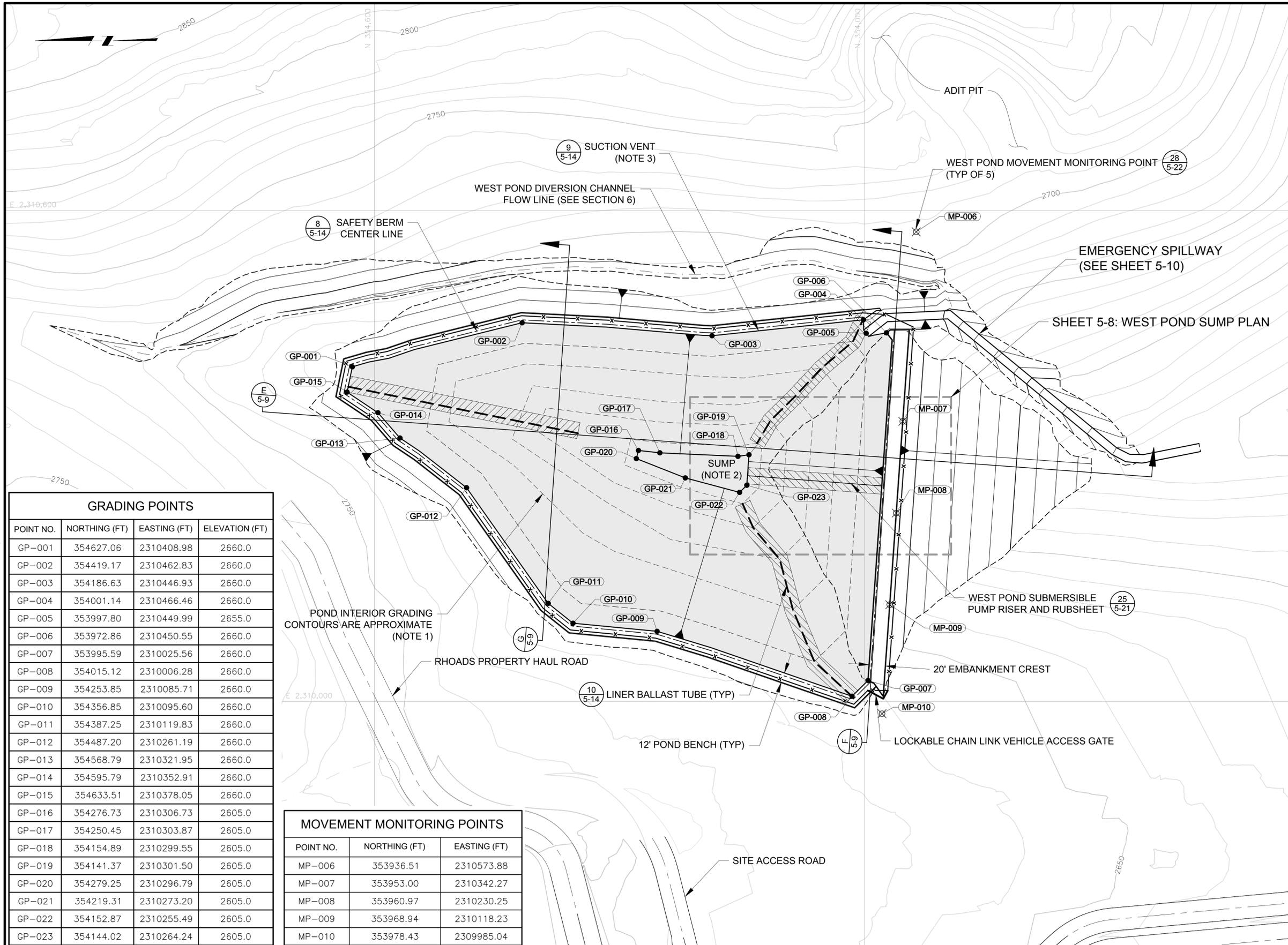
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD27/NAVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.
- ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVD88 DATUM.

DESIGNED BY	C BERNEDO	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	SOUTH POND EMERGENCY SPILLWAY PROFILE	

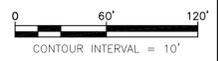
	SHEET	5-6	REVISION	3
	FILE NAME	5-5	DATE	JUNE 2015



KEY MAP
NOT TO SCALE

- LEGEND**
- EXTENT OF POND LINER
 - RUBSHEET (NOTE 6)
 - LINER BALLAST TUBE
 - x CHAIN LINK FENCE
 - x MOVEMENT MONITORING POINT

- NOTES:**
1. POND INTERIOR CONTOURS SHOWN ARE APPROXIMATE. FINISHED SURFACE WILL BE DETERMINED IN THE FIELD ACCORDING TO RIPPIABILITY OF SOILS. SLOPES WILL BE NO STEEPER THAN 2.5H:1V.
 2. SUMP GRADING SHOWN IS APPROXIMATE. REFER TO NOTE 1. SEE SHEET 5-20 FOR ADDITIONAL INFORMATION REGARDING THE WEST POND SUMP.
 3. SUCTION VENTS WILL BE INSTALLED EVERY 50' AROUND THE LINER PERIMETER.
 4. THE FOOTPRINT OF THE WEST POND EMBANKMENT WILL BE OVER-EXCAVATED ACCORDING TO THE REQUIREMENTS OF THE SPECIFICATIONS PRIOR TO PLACEMENT OF EMBANKMENT FILL.
 5. AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.
 6. EXTRUSION WELD A FULL PANEL WIDTH RUBSHEET TO THE PRIMARY CONTAINMENT LINER AT THE LOCATIONS SHOWN, EXTRUSION WELD TO BE CONTINUOUS (SPOT WELDING WILL NOT BE ACCEPTED).



GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	354627.06	2310408.98	2660.0
GP-002	354419.17	2310462.83	2660.0
GP-003	354186.63	2310446.93	2660.0
GP-004	354001.14	2310466.46	2660.0
GP-005	353997.80	2310449.99	2655.0
GP-006	353972.86	2310450.55	2660.0
GP-007	353995.59	2310025.56	2660.0
GP-008	354015.12	2310006.28	2660.0
GP-009	354253.85	2310085.71	2660.0
GP-010	354356.85	2310095.60	2660.0
GP-011	354387.25	2310119.83	2660.0
GP-012	354487.20	2310261.19	2660.0
GP-013	354568.79	2310321.95	2660.0
GP-014	354595.79	2310352.91	2660.0
GP-015	354633.51	2310378.05	2660.0
GP-016	354276.73	2310306.73	2605.0
GP-017	354250.45	2310303.87	2605.0
GP-018	354154.89	2310299.55	2605.0
GP-019	354141.37	2310301.50	2605.0
GP-020	354279.25	2310296.79	2605.0
GP-021	354219.31	2310273.20	2605.0
GP-022	354152.87	2310255.49	2605.0
GP-023	354144.02	2310264.24	2605.0

MOVEMENT MONITORING POINTS		
POINT NO.	NORTHING (FT)	EASTING (FT)
MP-006	353936.51	2310573.88
MP-007	353953.00	2310342.27
MP-008	353960.97	2310230.25
MP-009	353968.94	2310118.23
MP-010	353978.43	2309985.04

POND INTERIOR GRADING CONTOURS ARE APPROXIMATE (NOTE 1)

10 LINER BALLAST TUBE (TYP)

12' POND BENCH (TYP)

SITE ACCESS ROAD

P:\AMER\P\103\MW\GLOBAL.COM_AM_PROJECTS\03\DOCUMENTS\FC23_NEWMONT\MIDNIGHT_MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-7.dwg

ISSUE NO.	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:
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.

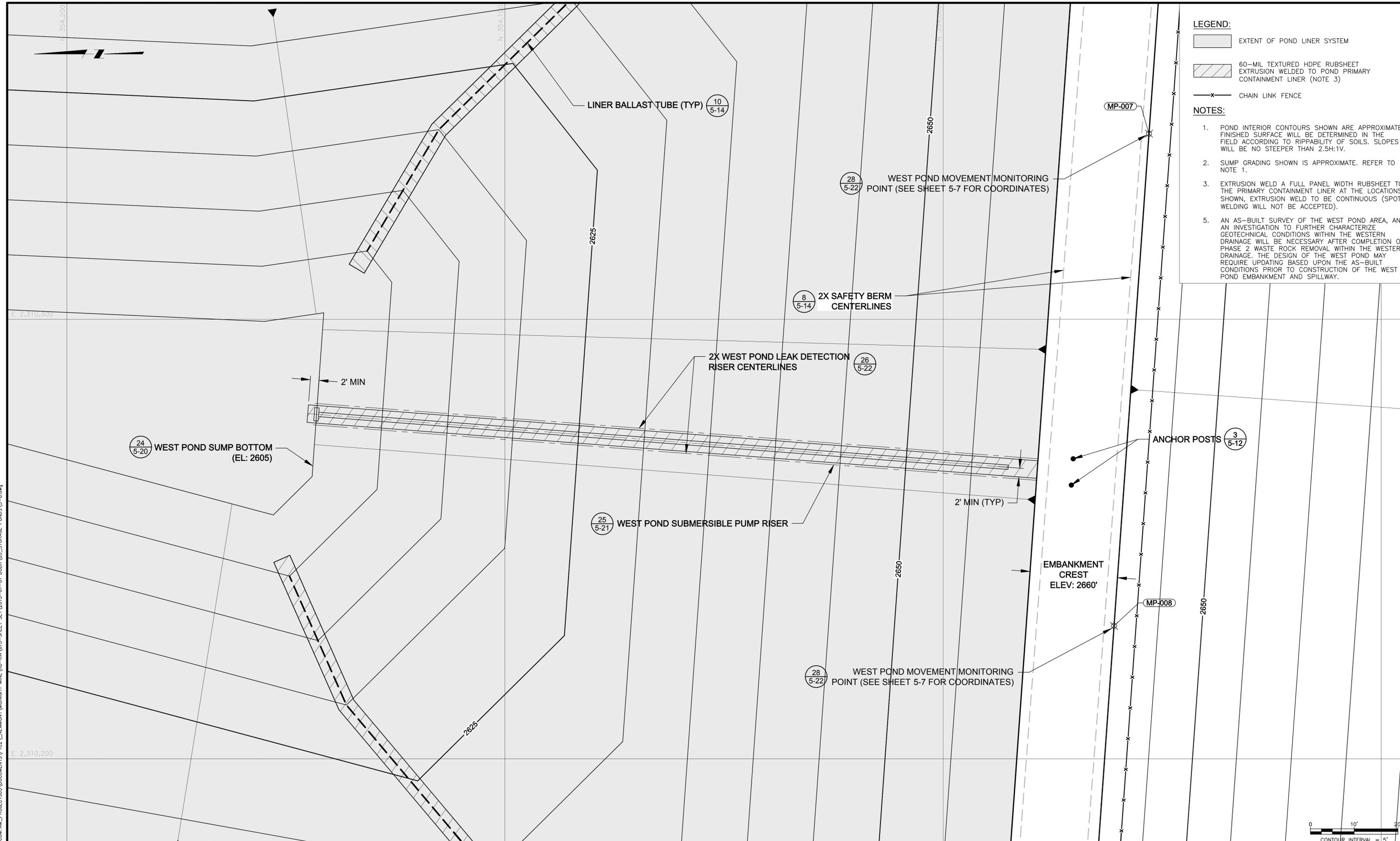
DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 • PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.
 • CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.
 • ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVDS88 DATUM.

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



PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	WEST POND GRADING PLAN	

SHEET	5-7	REVISION	3
	5-7		DATE



- LEGEND:**
- EXTENT OF POND LINER SYSTEM
 - 60-MIL TEXTURED HDPE RUBSHEET EXTRUSION WELDED TO POND PRIMARY CONTAINMENT LINER (NOTE 3)
 - CHAIN LINK FENCE
- NOTES:**
1. POND INTERIOR CONTOURS SHOWN ARE APPROXIMATE. FINISHED SURFACE WILL BE DETERMINED IN THE FIELD ACCORDING TO RIPABILITY OF SOILS. SLOPES WILL BE NO STEEPER THAN 2.5H:1V.
 2. SUMP GRADING SHOWN IS APPROXIMATE. REFER TO NOTE 1.
 3. EXTRUSION WELD A FULL PANEL WIDTH RUBSHEET TO THE PRIMARY CONTAINMENT LINER AT THE LOCATIONS SHOWN, EXTRUSION WELD TO BE CONTINUOUS (SPOT WELDING WILL NOT BE ACCEPTED).
 5. AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.

PW:\AMER\PROJECTS\03\MW\GLOB\COM_AM_PROJECTS\03\DOCUMENTS\FC2\NEW\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-8.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	CF	SM	12-13

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.

DRAWING REFERENCE(S):

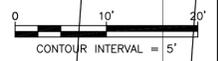
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
- PRE-MINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.

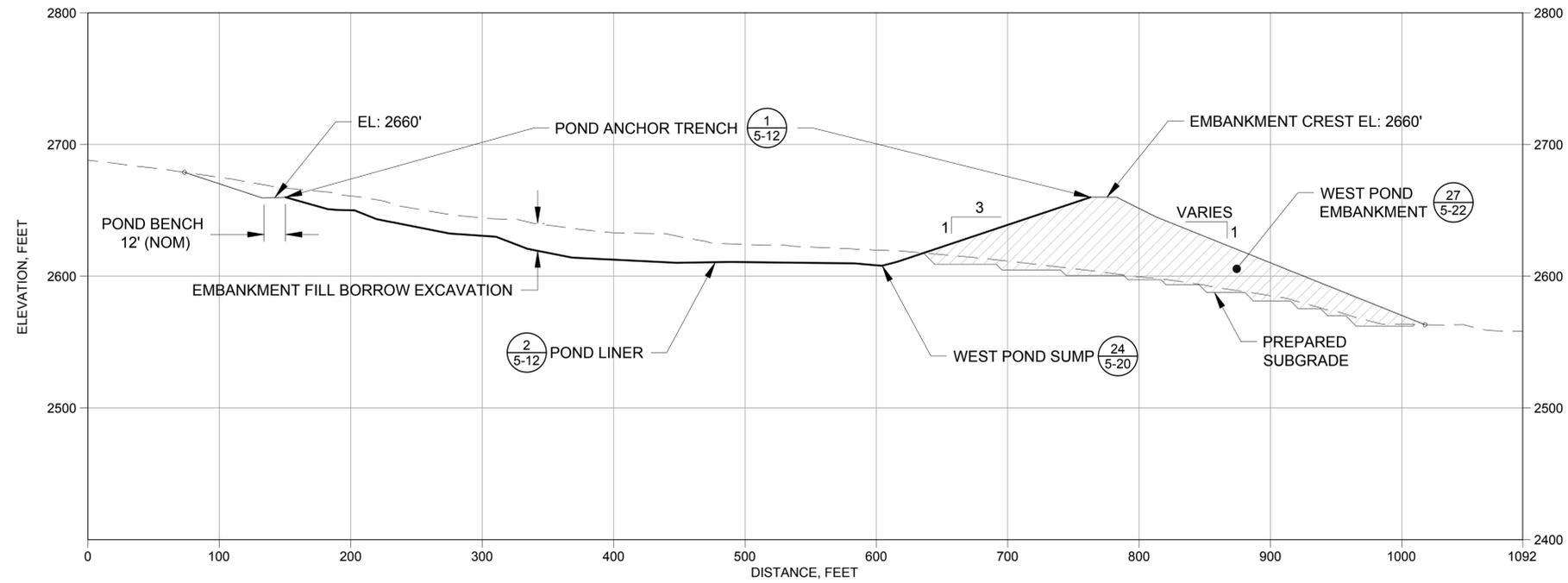
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	WEST POND SUMP PLAN	

SHEET	5-8	REVISION	3
	FILE NAME	5-8	DATE
			JUNE 2015





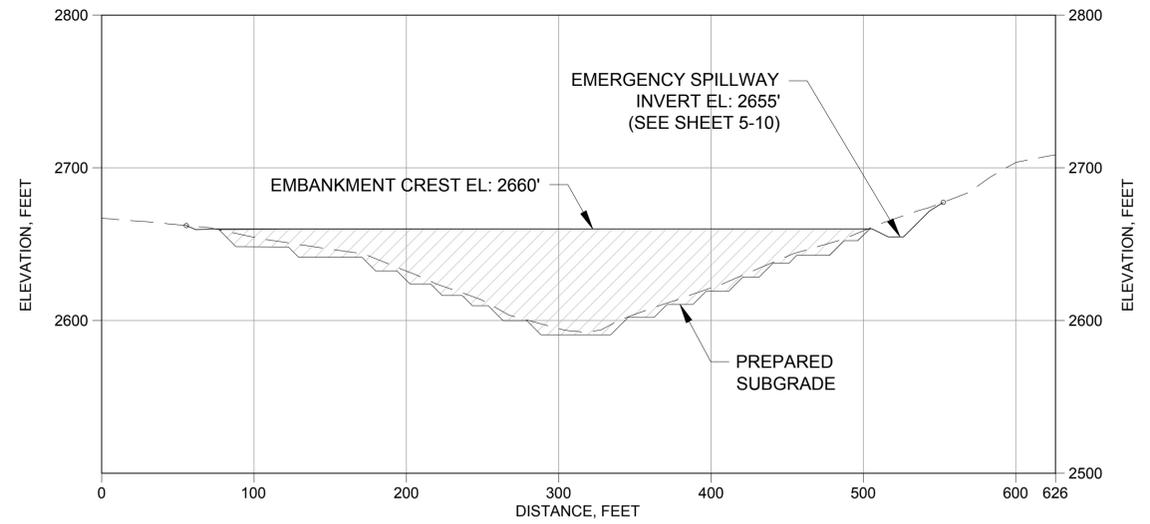
LEGEND:

	ESTIMATED GROUND SURFACE AFTER COMPLETION OF PHASE 2 WASTE REMOVAL
	FINISHED GRADE
	EXTENT OF POND LINER
	STRUCTURAL FILL

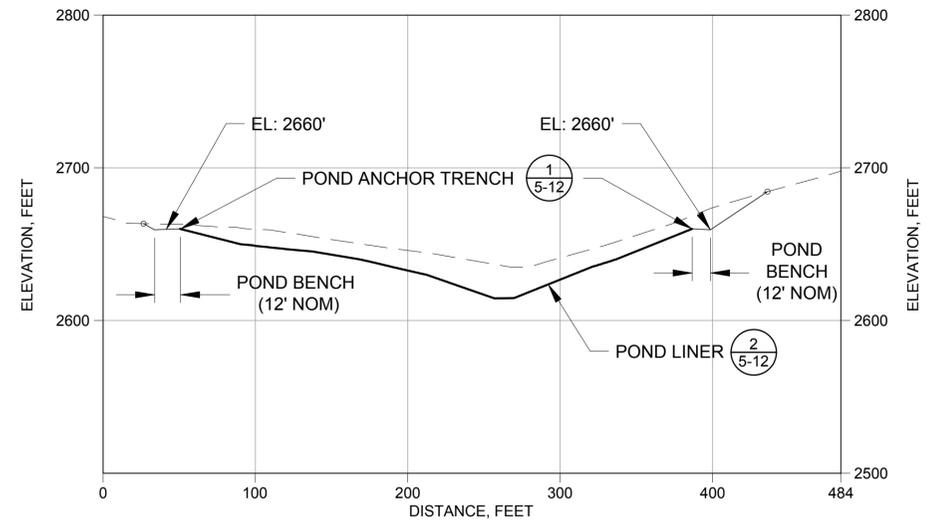
E WEST POND
5-7

NOTES:

- EXCAVATION SURFACES SHOWN REPRESENT APPROXIMATE DEPTHS OF EXCAVATION. DEPTH AND EXTENT OF WASTE EXCAVATION IS SUBJECT TO FIELD VERIFICATION.
- FINISHED GROUND SURFACE WITHIN THE IMPOUNDMENT AREA WILL BE DETERMINED IN THE FIELD ACCORDING TO SOIL CONDITIONS.
- THE FOOTPRINT OF THE WEST POND EMBANKMENT WILL BE OVER-EXCAVATED ACCORDING TO THE REQUIREMENTS OF THE SPECIFICATIONS PRIOR TO PLACEMENT OF COMPACTED FILL.
- SUBGRADE BENCHING SHOWN IN THE SECTIONS IS ESTIMATED. ACTUAL BENCH DIMENSIONS WILL BE DETERMINED IN THE FIELD.
- AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.



F WEST POND
5-7



G WEST POND
5-7

PW \\AMER\PWP\103\MW\GLOB\COM\AM\PROJECTS\03\DOCUMENTS\F\02\NEWMONT\MIDNIGHT MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-7.dwg

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:
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.

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

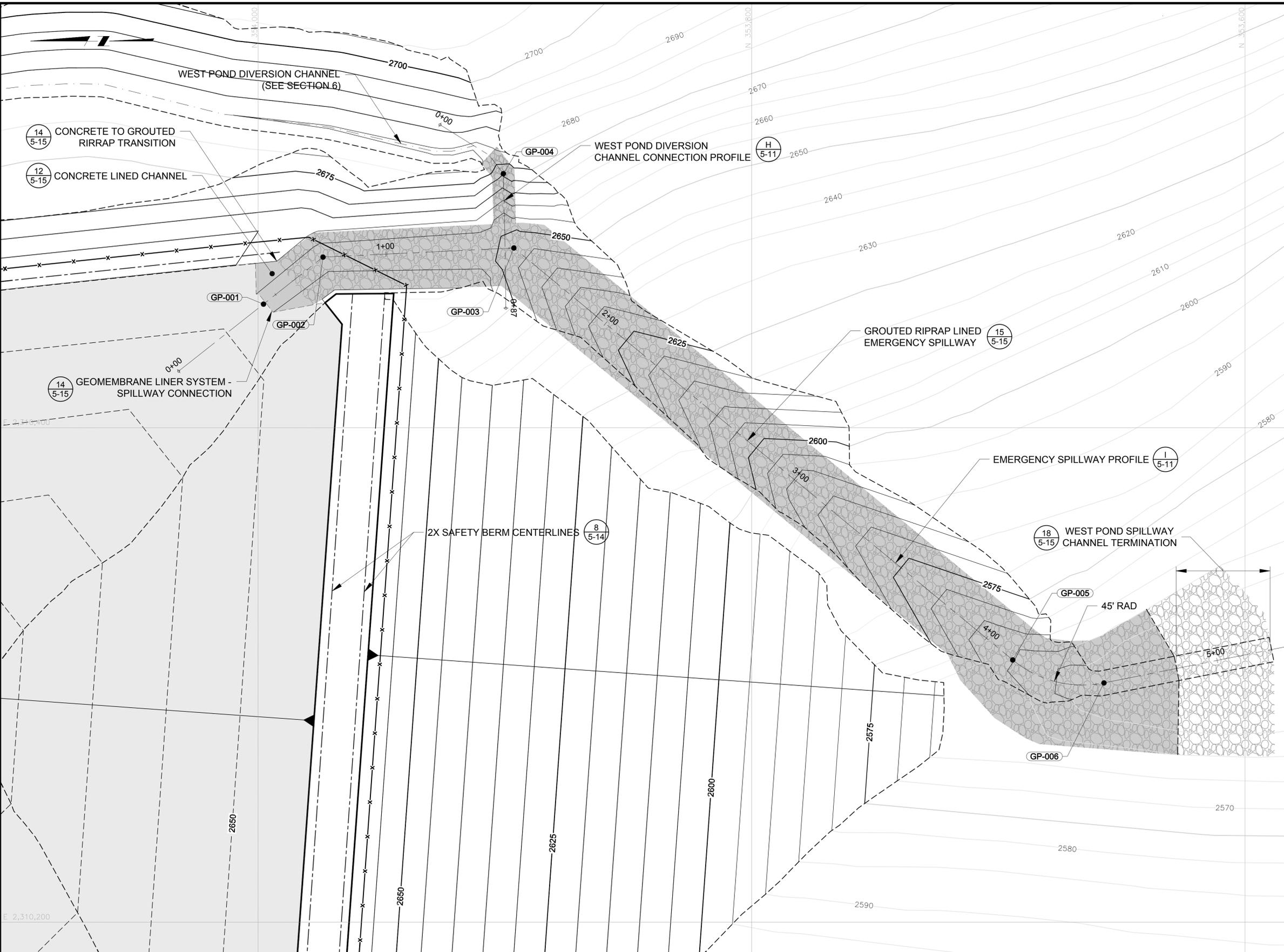
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINOT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	WEST POND SECTIONS	

	SHEET	5-9	REVISION	3
	FILE NAME	5-7	DATE	JUNE 2015

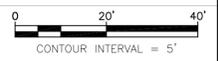
PW:\AMER\PROJECTS\03\MIDNITE MINE\RD-RA\03-SHEET SET\2015-01\BODR\05_STORAGE_PONDS\5-10.dwg
 3
 2
 1



GRADING POINTS			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
GP-001	353997.80	2310449.99	2655.0
GP-002	353973.68	2310469.00	2654.7
GP-003	353896.34	2310472.70	2648.3
GP-004	353900.60	2310502.75	2673.0
GP-005	353694.19	2310306.11	2560.3
GP-006	353657.22	2310296.80	2559.8

- LEGEND:**
- CONCRETE LINED
 - GROUDED RIPRAP
 - LOOSE RIPRAP
 - CHAIN LINK FENCE

- NOTES:**
- POND INTERIOR CONTOURS SHOWN ARE APPROXIMATE. FINISHED SURFACE WILL BE DETERMINED IN THE FIELD ACCORDING TO RIPPERABILITY OF SOILS. SLOPES SHALL BE NO STEEPER THAN 2.5H:1V.
 - THE FOOTPRINT OF THE WEST POND EMBANKMENT SHALL BE OVER-EXCAVATED ACCORDING TO THE REQUIREMENTS OF THE SPECIFICATIONS PRIOR TO PLACEMENT OF COMPACTED FILL.
 - AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.
 - FINAL 100% DESIGN OF THE WEST POND SPILLWAY IS PENDING UNTIL FURTHER INFORMATION OF THE ACTUAL TOPOGRAPHY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL IS AVAILABLE. NO UPDATES TO THE WEST POND SPILLWAY HAVE BEEN PERFORMED SINCE 90% DESIGN.



ISSUE NO.	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	JC	SM	07-14

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.

DRAWING REFERENCE(S):

- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USRM MAPPING (NAD27/NOV49) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.
- ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVD88 DATUM.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED II	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	WEST POND EMERGENCY SPILLWAY GRADING PLAN	

MWH

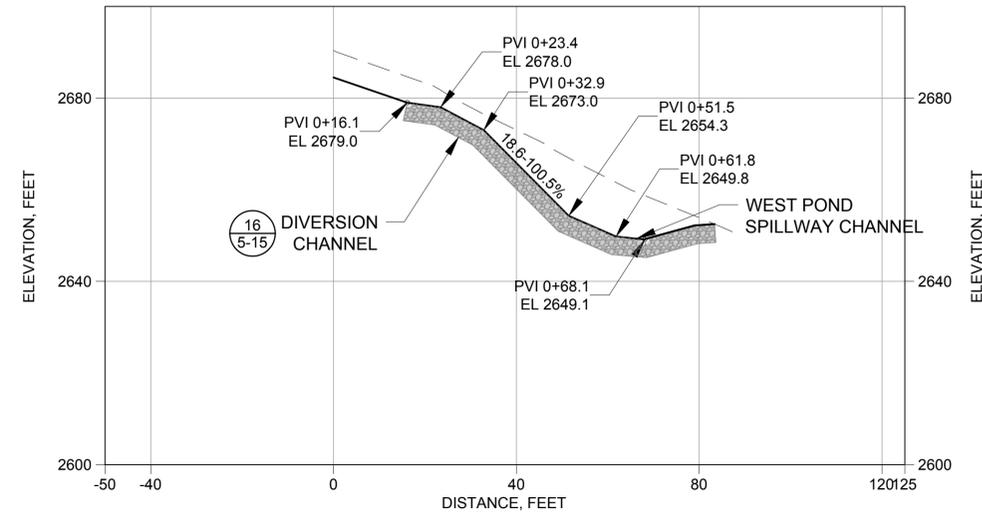
SHEET	5-10	REVISION	3
FILE NAME	5-10	DATE	JUNE 2015

LEGEND:

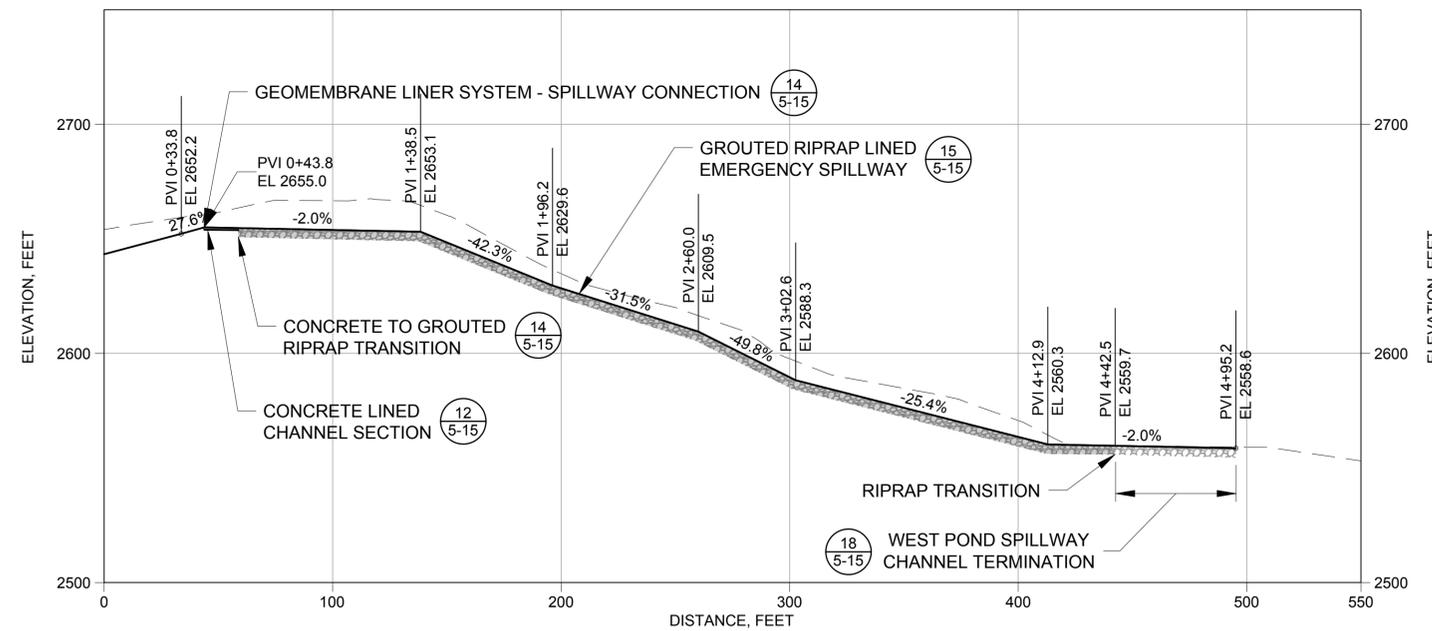
-  ESTIMATED GROUND SURFACE AFTER COMPLETION OF PHASE 2 WASTE REMOVAL
-  FINISHED GRADE
-  LOOSE RIPRAP
-  GROUTED RIPRAP
-  REINFORCED CONCRETE

NOTE:

1. AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.



H
5-10 WEST POND DIVERSION CHANNEL CONNECTION PROFILE



I
5-10 WEST POND EMERGENCY SPILLWAY PROFILE

PW:\AMER\PROJECTS\03\DOCUMENTS\03\PROJECTS\03\DOCUMENTS\FC2\NEW\WELLPINT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-10.dwg

ISSUE NO.	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	JC	SM	07-14

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.

DRAWING REFERENCE(S):

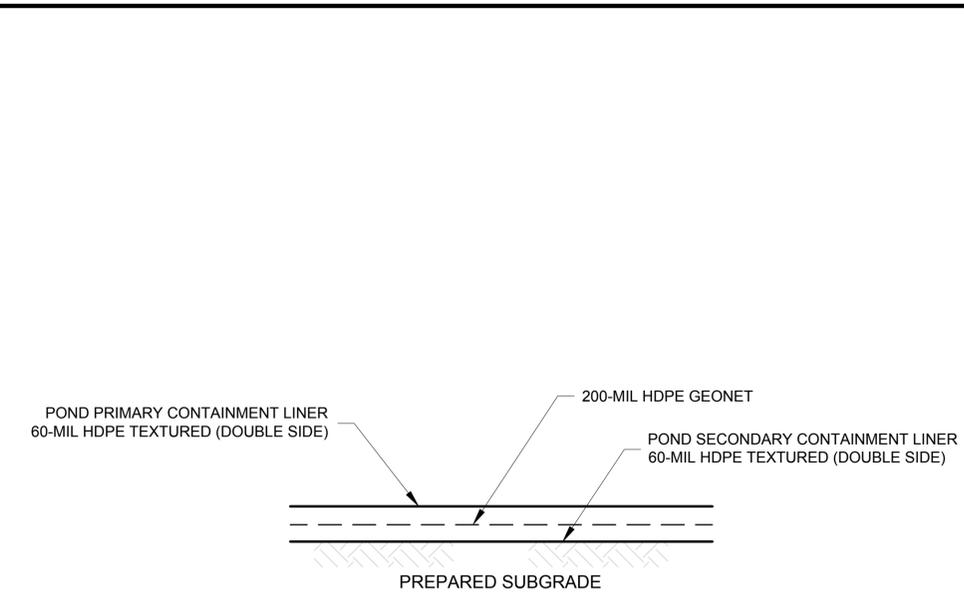
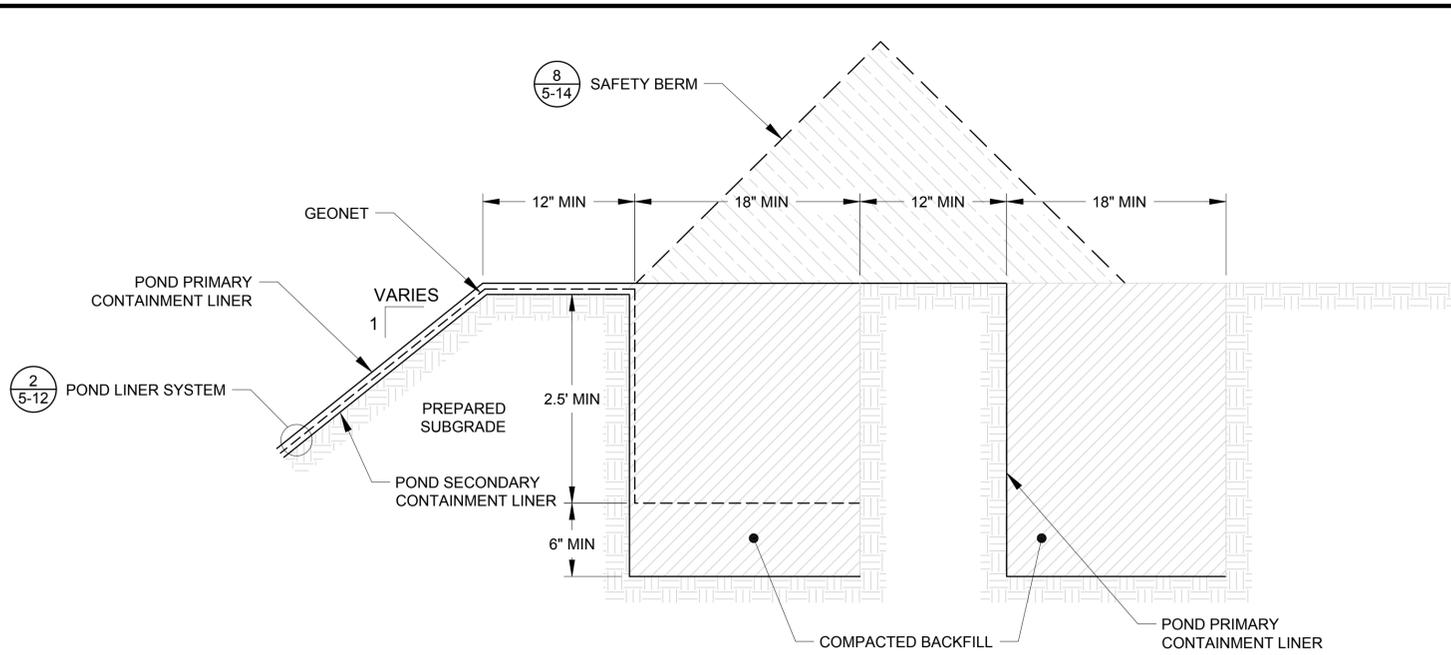
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
- PRE-MINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.
- ALL COORDINATES ARE PROVIDED IN FEET, USING WASHINGTON STATE-PLANE NORTH NAD83/NAVD88 DATUM.

DESIGNED BY	C BERNEDO	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



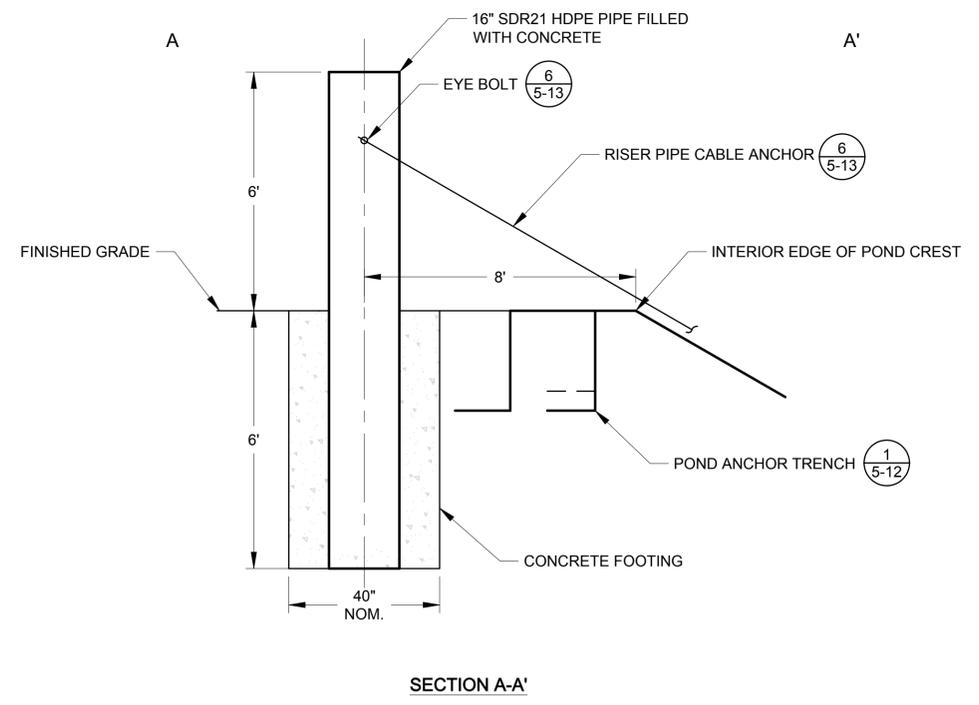
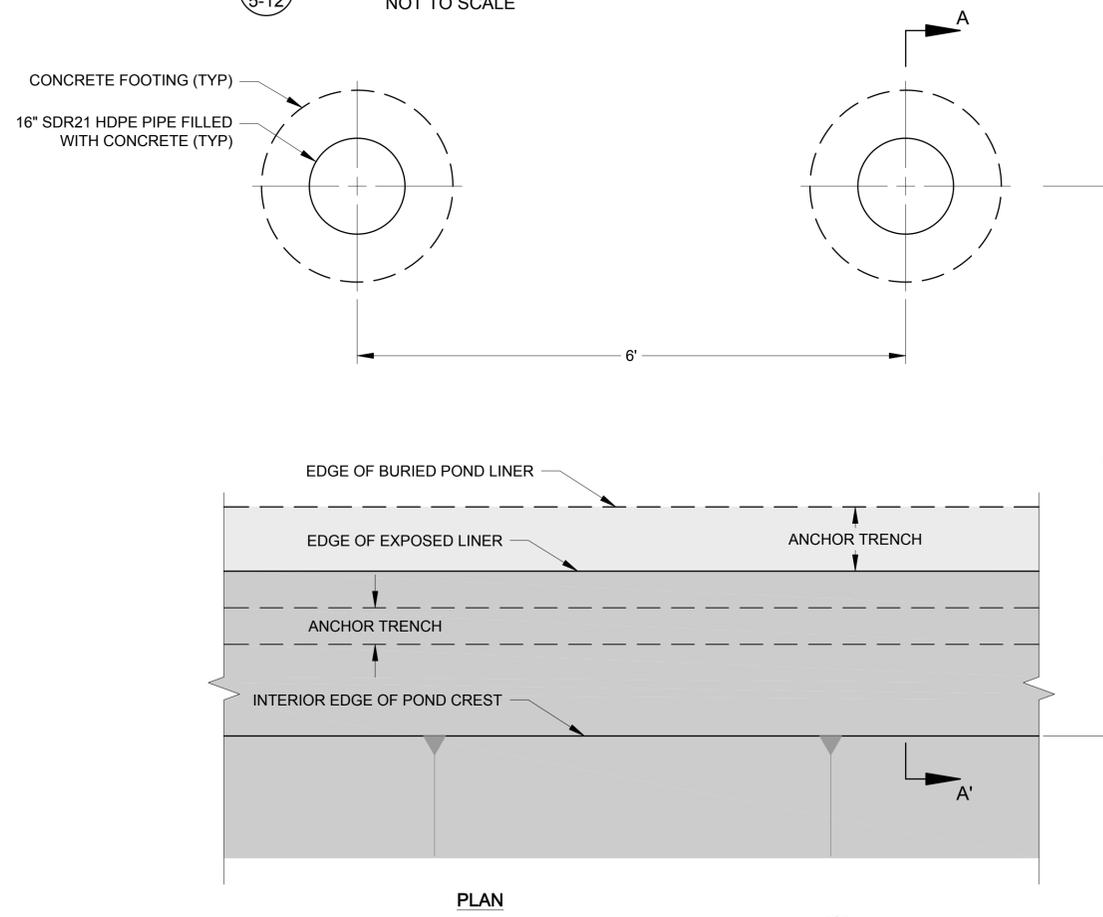
PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	WEST POND EMERGENCY SPILLWAY PROFILE	
SHEET	5-11	REVISION 3
FILE NAME	5-10	DATE JUNE 2015





1 POND ANCHOR TRENCH
5-12 NOT TO SCALE

2 POND LINER DETAIL
5-12 NOT TO SCALE



3 ANCHOR POST DETAIL
5-12 NOT TO SCALE

P:\AMER\PROJECTS\3\MIDNITE\MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-12.dwg

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:
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.

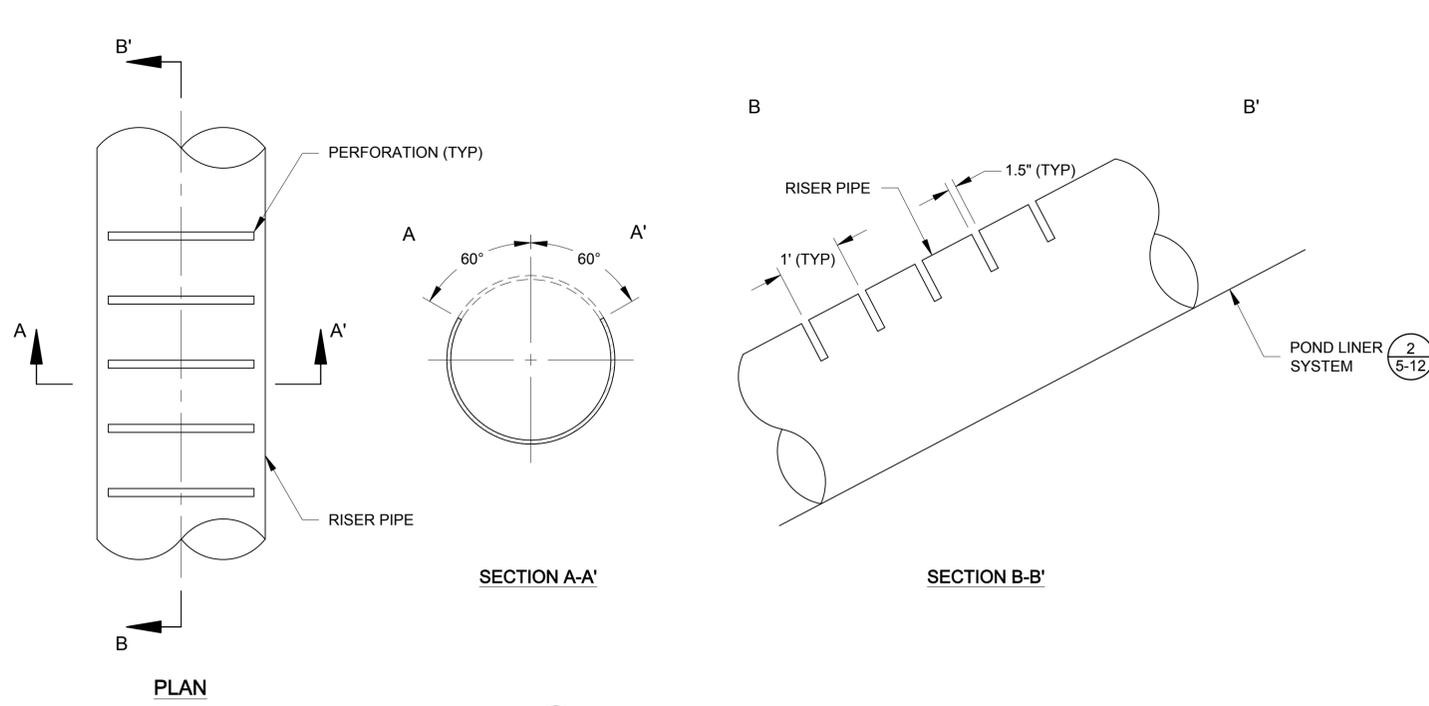
DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
 • PRELIMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USRM MAPPING (NAD83/NAVD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.

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

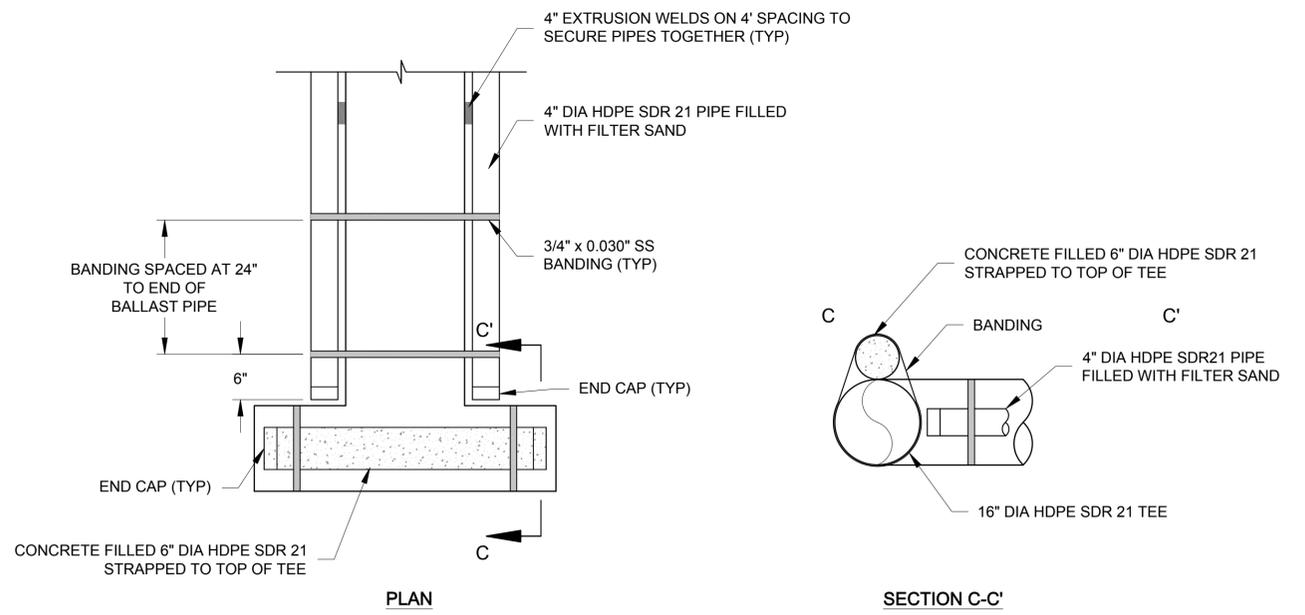


PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	TYPICAL DETAILS AND SECTIONS (1 OF 4)	

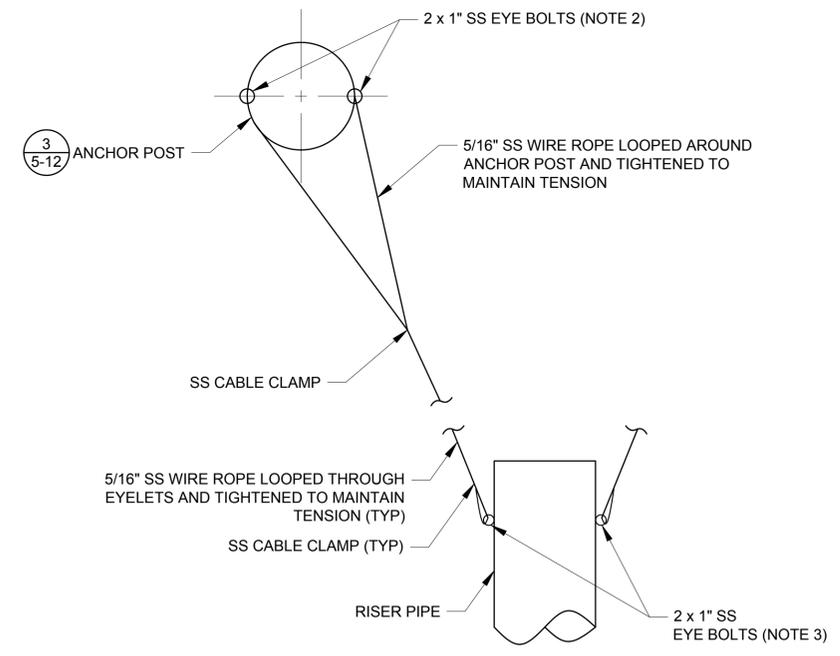
	SHEET	5-12	REVISION	3
	FILE NAME	5-12	DATE	JUNE 2015



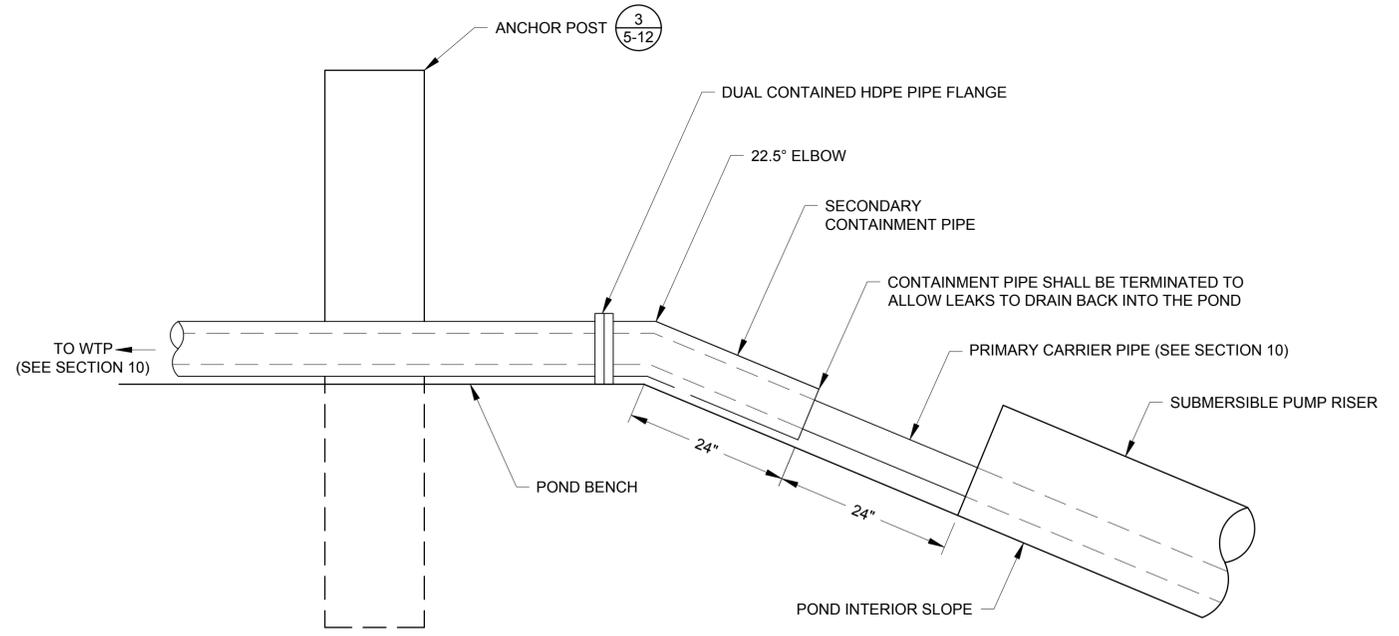
4 PERFORATION DETAIL
5-13 NOT TO SCALE



5 PUMP RISER END TEE DETAIL
5-13 NOT TO SCALE



6 RISER PIPE CABLE ANCHOR
5-13 NOT TO SCALE



7 SUBMERSIBLE PUMP RISER CONNECTION
5-13 NOT TO SCALE

NOTES:

- CABLE TO BE SECURED HIGH ENOUGH ON THE ANCHOR POST TO PREVENT CONTACT BETWEEN CABLE AND LINER.
- EYE BOLTS TO BE PLACED TO MAINTAIN VERTICAL POSITION OF CABLE. POSITION EYE BOLT SUCH THAT TENSIONED CABLE IS NOMINALLY CENTERED IN EYE.
- EYELETS TO BE MOUNTED IN HOLES DRILLED THROUGH THE HDPE PIPE, AT MIDPOINT OF PIPE, AND SECURED WITH SS WASHERS AND NUTS. EYELET THREADS SHALL NOT EXTEND MORE THAN 1-INCH BEYOND WASHER AND NUT.

GENERAL NOTES:

- ALL PIPES WILL BE FUSION WELDED HDPE, UNLESS OTHERWISE STATED.
- ALL FLANGES WILL BE HDPE UNLESS OTHERWISE STATED.

PW:\AMER\PROJECTS\03\PROJECTS\03\DOCUMENTS\FC2\NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-13.dwg

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

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.

DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 • PRELIM TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USRM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.

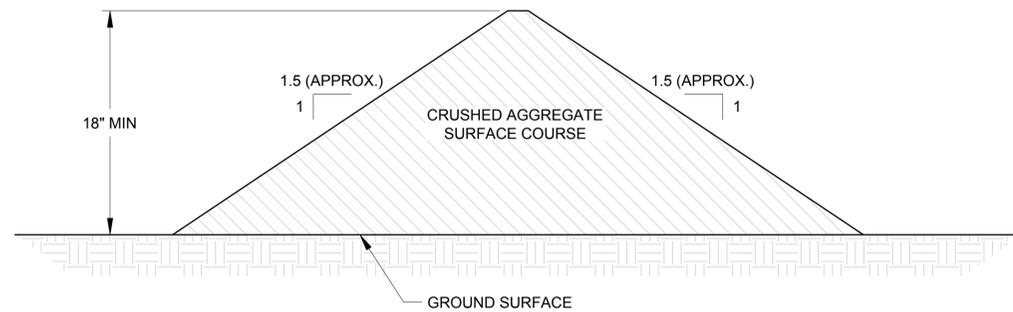
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	TYPICAL DETAILS AND SECTIONS (2 OF 4)	

SHEET	5-13	REVISION	3
	FILE NAME		5-13

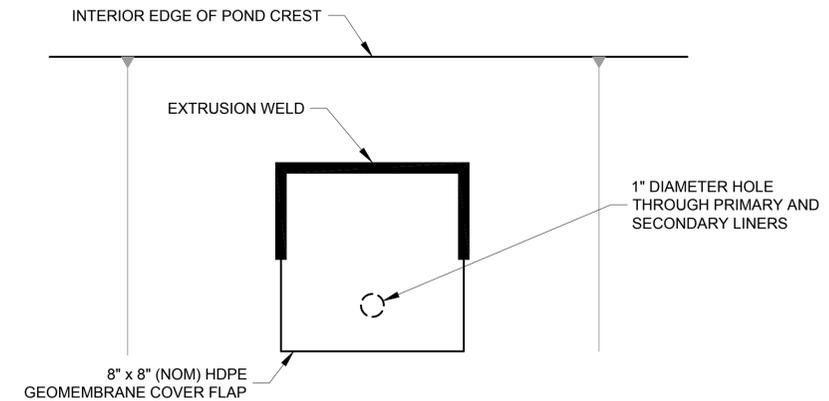




8
5-14 SAFETY BERM TYPICAL SECTION
NOT TO SCALE

NOTE:

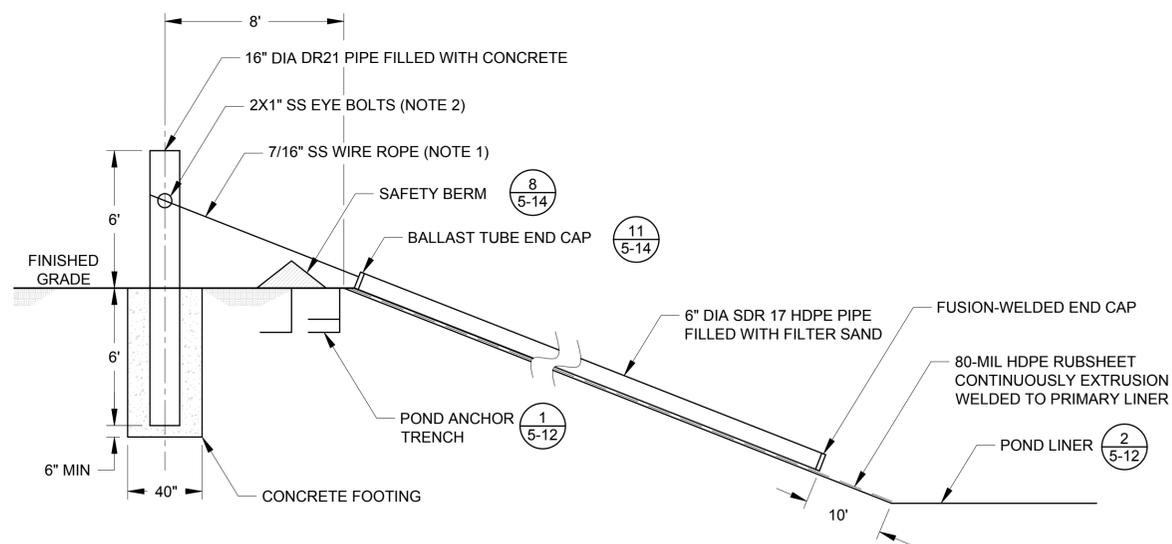
1. COMPACT BERM MATERIAL AND TRIM AS NEEDED TO ACHIEVE BERM CONFIGURATION.



9
5-14 SUCTION VENT DETAIL
NOT TO SCALE

NOTE:

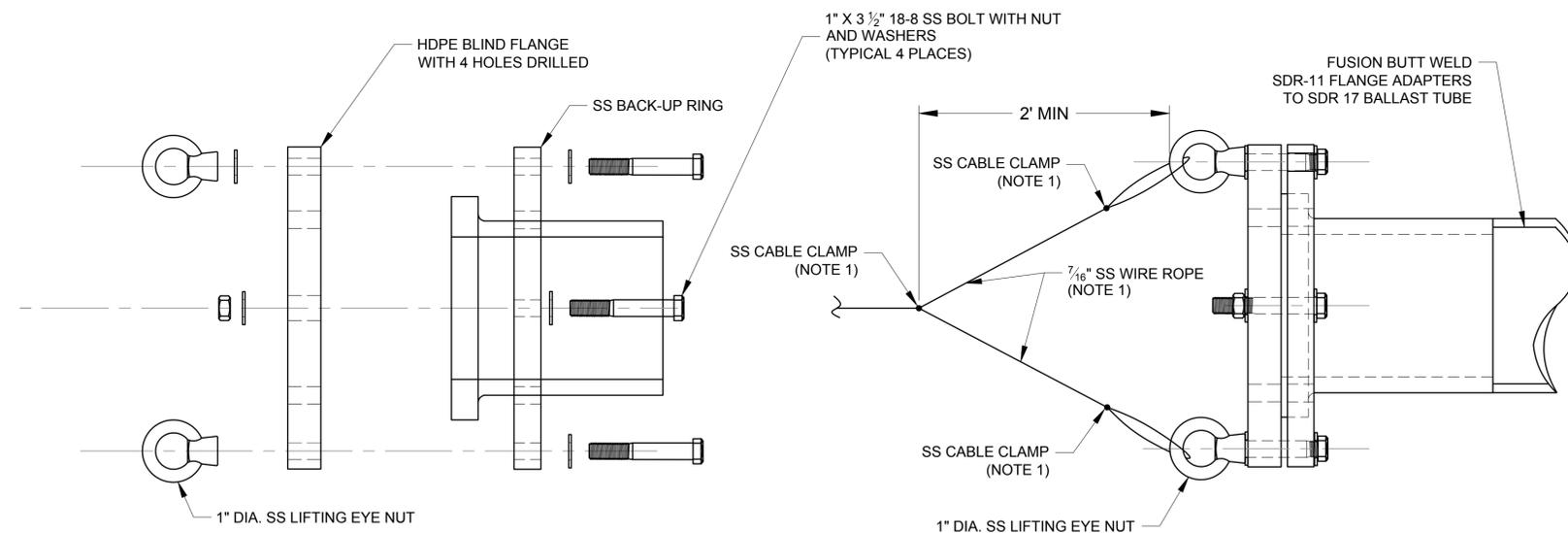
1. SUCTION VENT HOLE TO BE INSTALLED AT AN ELEVATION 1" BELOW POND CREST.



10
5-14 LINER BALLAST TUBE DETAIL
NOT TO SCALE

NOTES:

1. CABLE TO BE LOOPED AROUND ANCHOR POST, THROUGH EYE BOLTS, AND SECURED WITH A CABLE CLAMP. CABLE TO BE SECURED HIGH ENOUGH ON THE ANCHOR POST TO PREVENT CONTACT BETWEEN CABLE AND LINER.
2. EYE BOLTS TO BE PLACED TO MAINTAIN VERTICAL POSITION OF CABLE. POSITION EYE BOLT SUCH THAT TENSIONED CABLE IS NOMINALLY CENTERED IN EYE.



11
5-14 BALLAST TUBE END CAP DETAIL
NOT TO SCALE

NOTE:

1. LOOP WIRE ROPE THROUGH EYE NUT AND SECURE WITH CABLE CLAMP, MAINTAINING TENSION.

P:\AMER\PROJECTS\3\MW\GLOBAL\COM\AM_PROJECTS\3\DOCUMENTS\FC23_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-14.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	DM	SM	12-13

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.

DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
 • PRELIM TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD07/NAVD08) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.

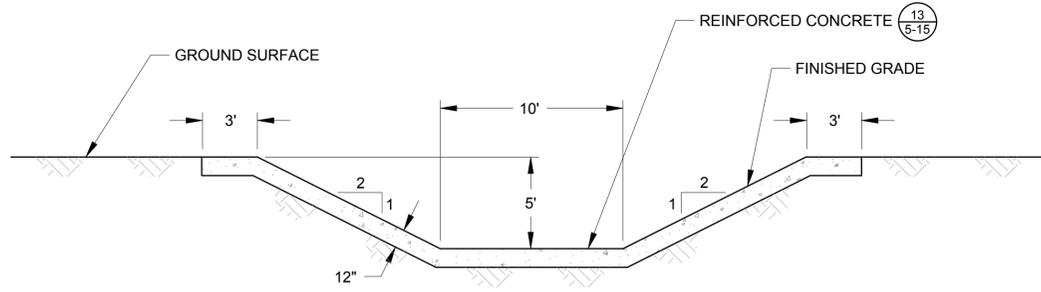
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



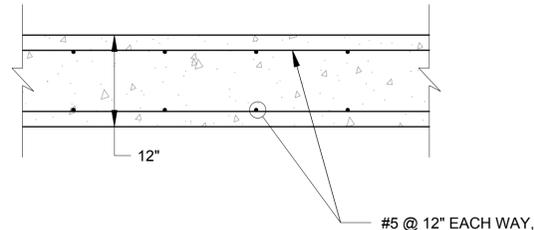
PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	TYPICAL DETAILS AND SECTIONS (3 OF 4)	

SHEET	5-14	REVISION	3
	5-14		DATE

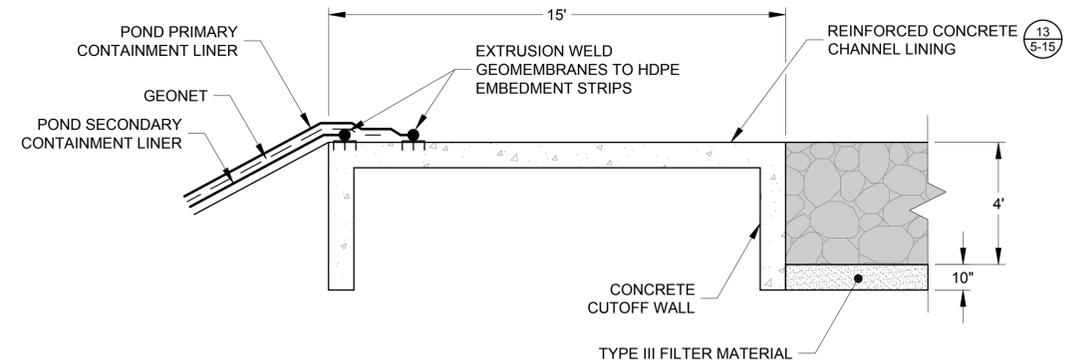




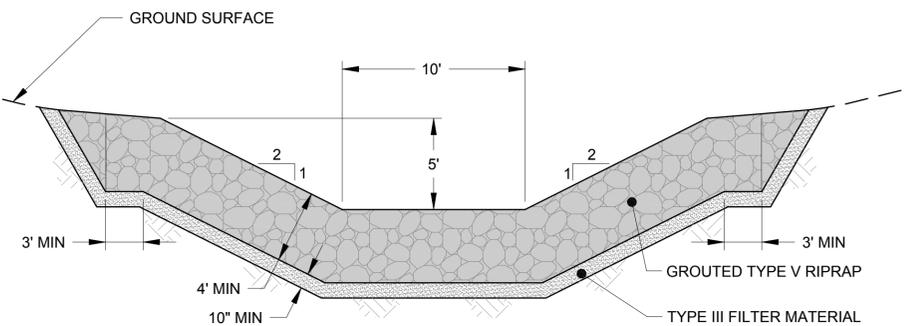
12 CONCRETE LINED CHANNEL TYPICAL SECTION
5-15 NOT TO SCALE



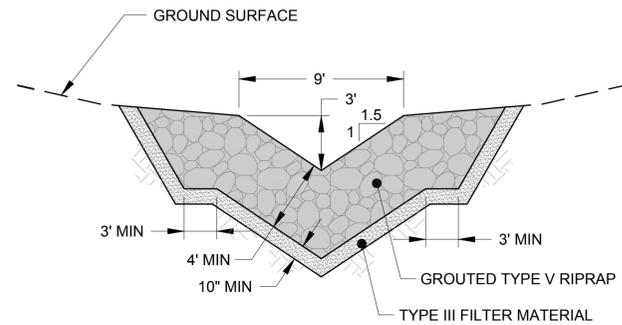
13 CONCRETE REBAR DETAIL
5-15 NOT TO SCALE



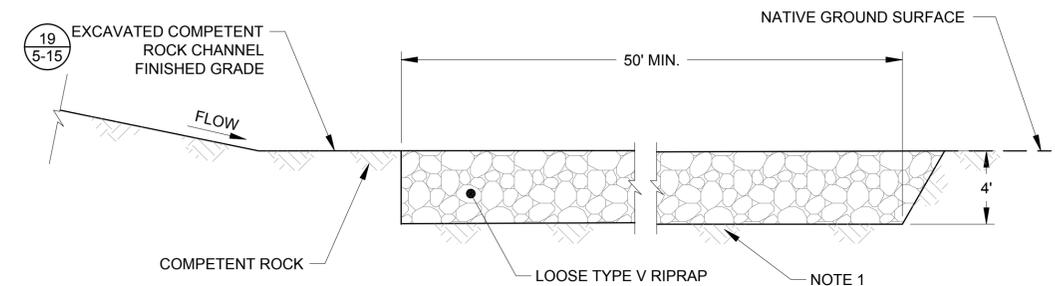
14 TYPICAL TRANSITION - CONCRETE TO GROUTED RIPRAP
5-15 NOT TO SCALE



15 GROUTED RIPRAP LINED CHANNEL TYPICAL SECTION
5-15 NOT TO SCALE



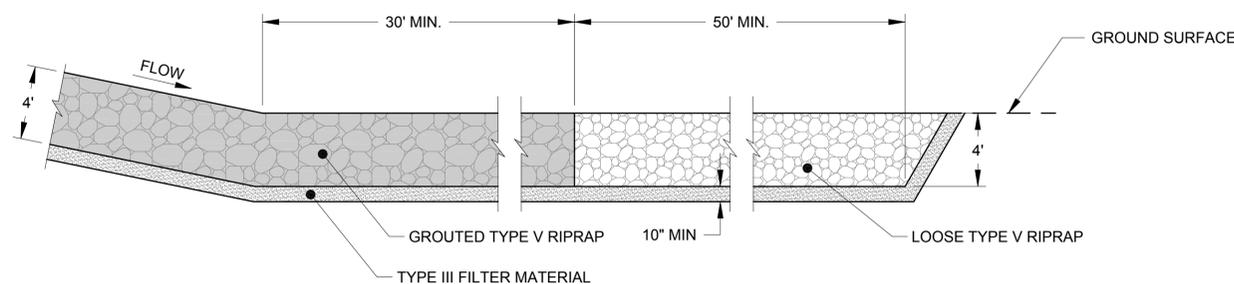
16 WEST POND DIVERSION CHANNEL CONNECTION TYPICAL SECTION
5-15 NOT TO SCALE



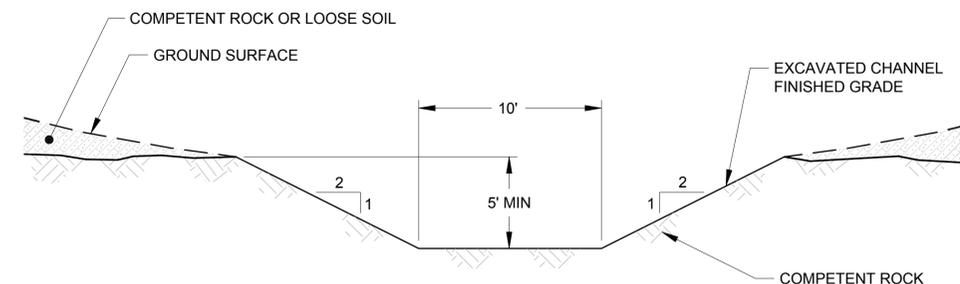
NOTE:

1. PLACE LAYER OF TYPE III FILTER MATERIAL (10" MIN THICKNESS) BELOW RIPRAP IN AREAS WHERE COMPETENT NATIVE ROCK IS NOT PRESENT.

17 SOUTH POND SPILLWAY CHANNEL TERMINATION DETAIL
5-15 NOT TO SCALE



18 WEST POND SPILLWAY CHANNEL TERMINATION DETAIL
5-15 NOT TO SCALE



19 EXCAVATED COMPETENT ROCK CHANNEL TYPICAL SECTION
5-15 NOT TO SCALE

P:\AMER\P\WINT03\MW\GLOBAL.COM\AM_PROJECTS\03\DOCUMENTS\FC2\NEW\WINT\MIDNIGHT MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-15.dwg

REV	ISSUE	DESCRIPTION	TECH	ENG	DATE
3		ISSUED FOR 100% DESIGN	KR	SM	06-15
2		ISSUED FOR 90% DESIGN	JC	SM	07-14

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.

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 USBM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USBM MAPPING (NAD27/NOVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.

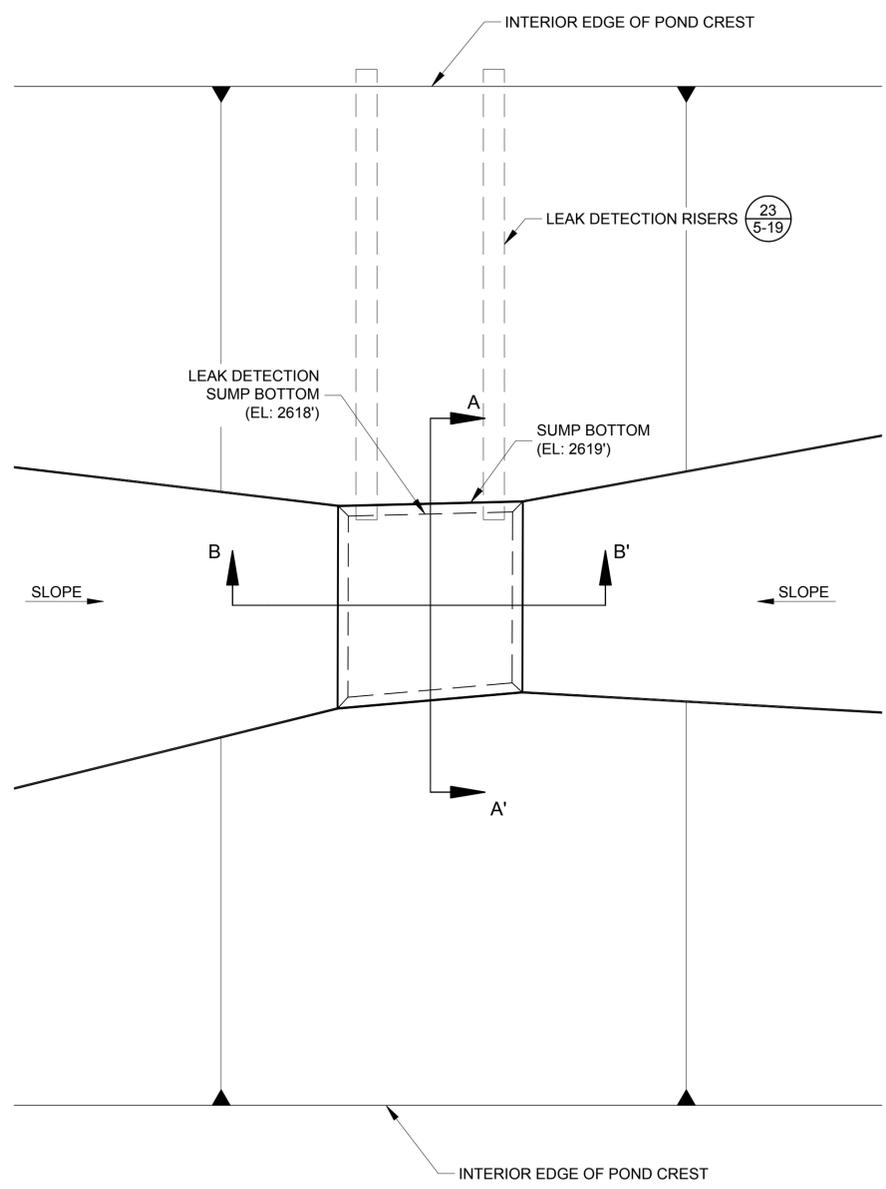
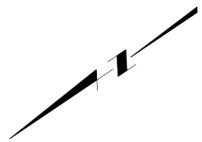
DESIGNED BY	C BERNEDO	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	S MCMANUS	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



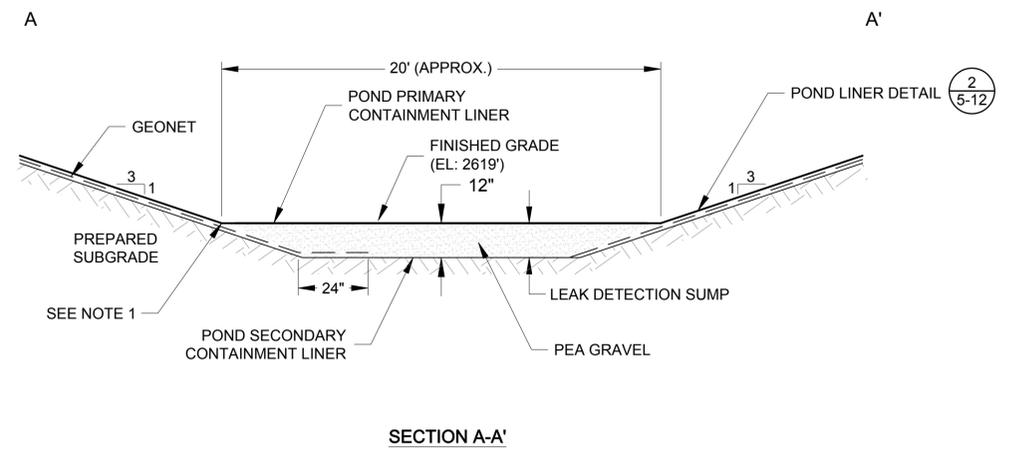
PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	TYPICAL DETAILS AND SECTIONS (4 OF 4)	

SHEET	5-15	REVISION	3
	FILE NAME		5-15

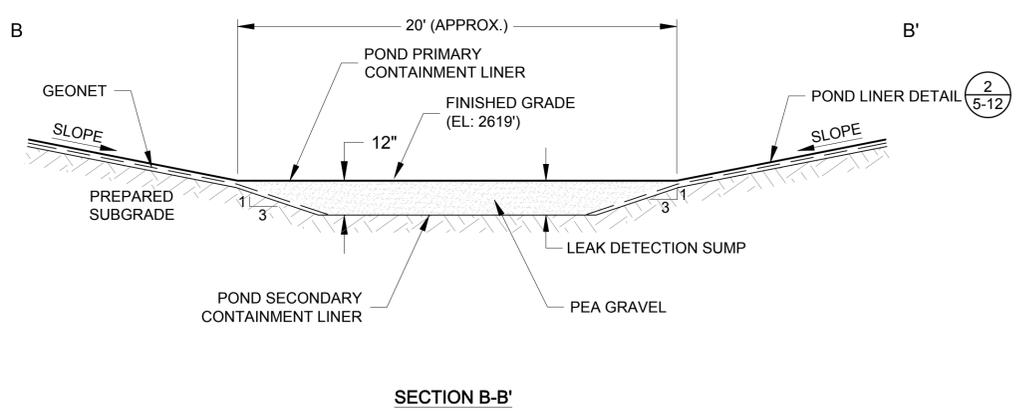




PLAN



SECTION A-A'



SECTION B-B'

20 SOUTH POND EAST SUMP DETAIL
5-16 NOT TO SCALE

NOTE:

1. SHAPE SUMP FINISHED GRADE TO INCLUDE A RISER "KICKER". SEE SHEET 5-18.

P:\AMER\P\W\T03\MW\GLOB\COM_AM_PROJECTS\03\DOCUMENTS\FIC2\NEWONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\05_STORAGE_PONDS\5-14.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	CF	SM	12-13

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.

DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
 • PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USRM MAPPING (NAD27/NAVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.

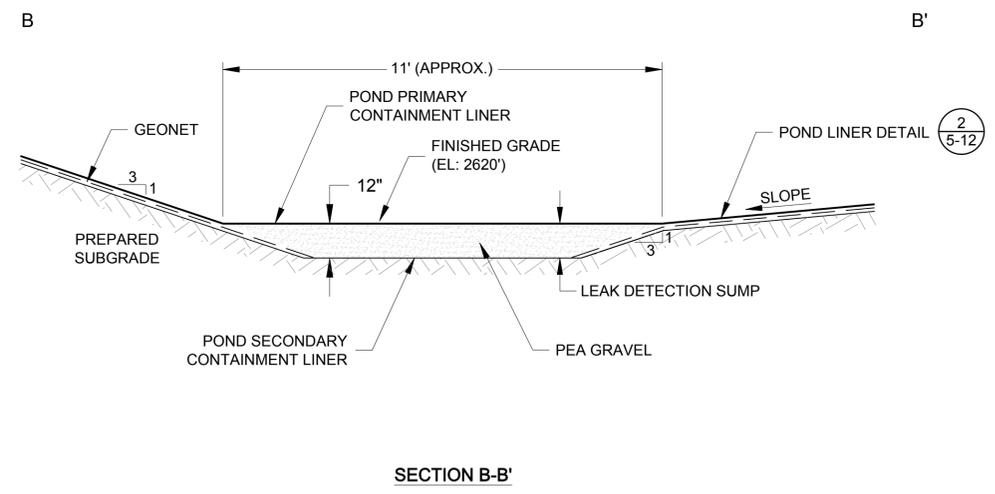
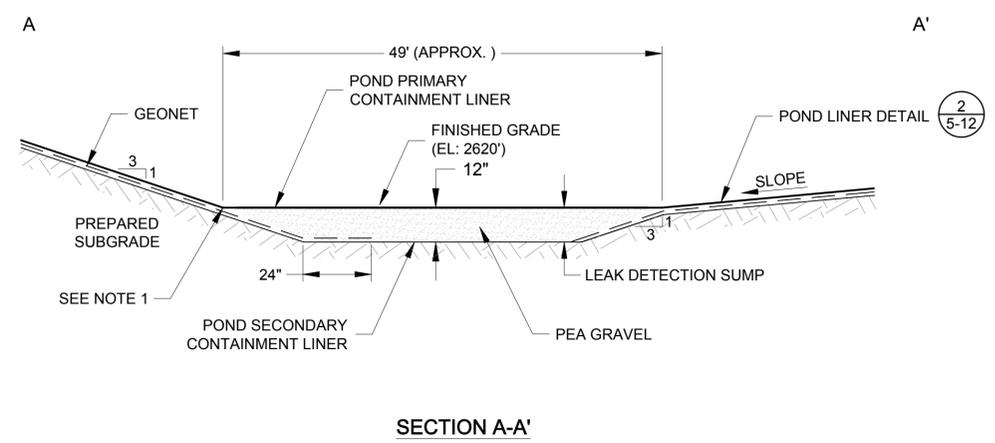
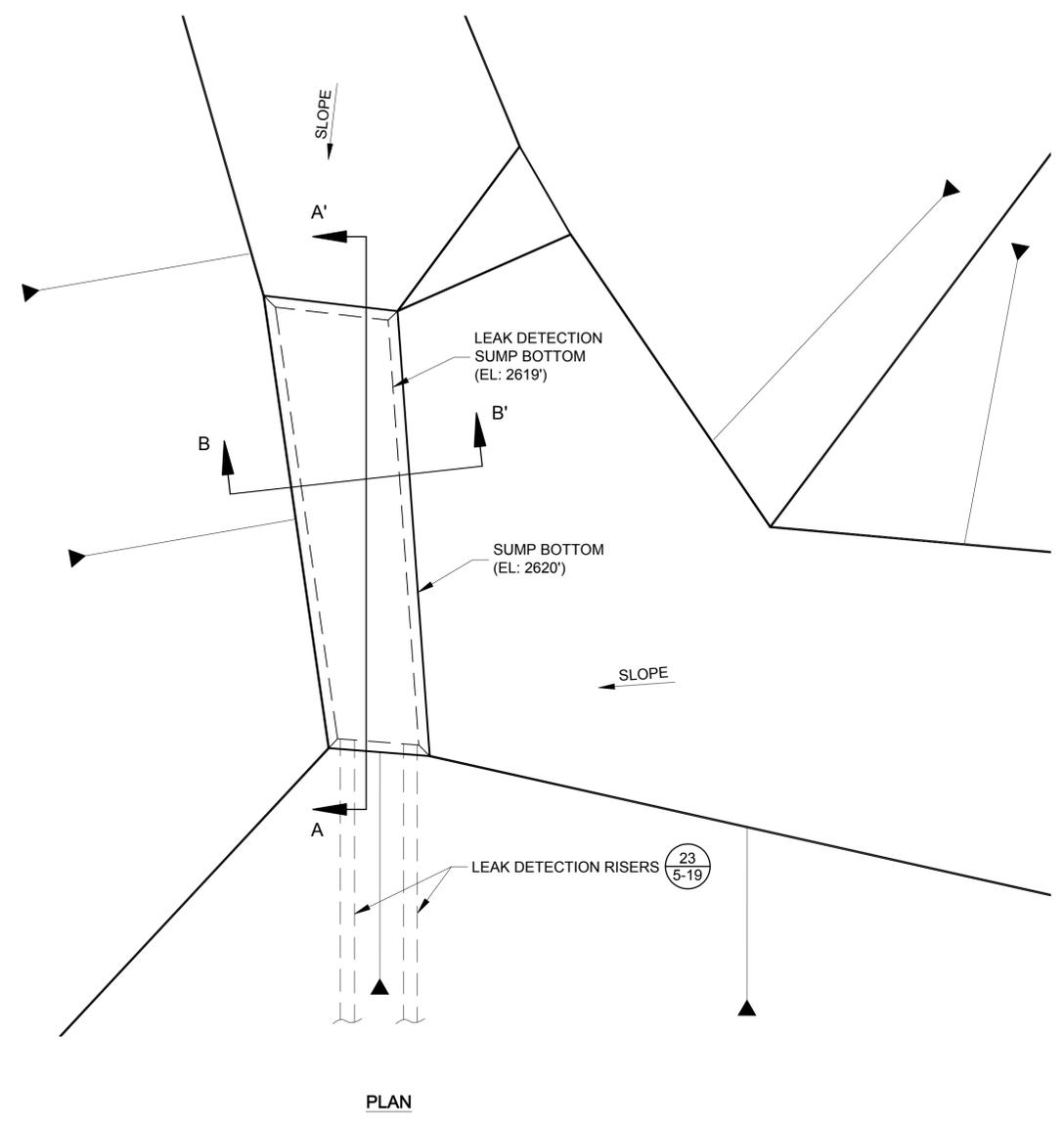
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SOUTH POND DETAILS (1 OF 4)	

	SHEET	5-16	REVISION	3
	FILE NAME	5-14	DATE	JUNE 2015

P:\AMER\PWP\03\MW\GLOBAL.COM_AML_PROJECTS\03\DOCUMENTS\F02_NEWMONT\MIDNIGHT MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-14.dwg



21 SOUTH POND WEST SUMP DETAIL
5-17 NOT TO SCALE

NOTE:
 1. SHAPE SUMP FINISHED GRADE TO INCLUDE A RISER "KICKER". SEE SHEET 5-18.

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	CF	SM	12-13

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.

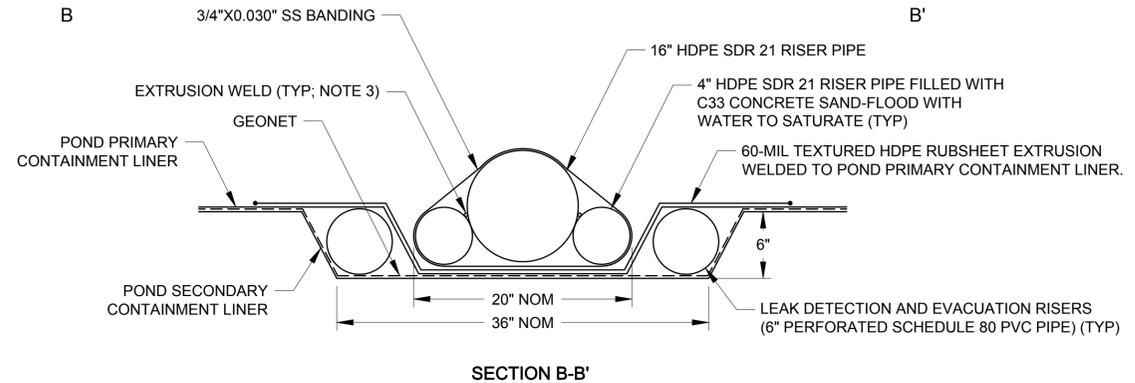
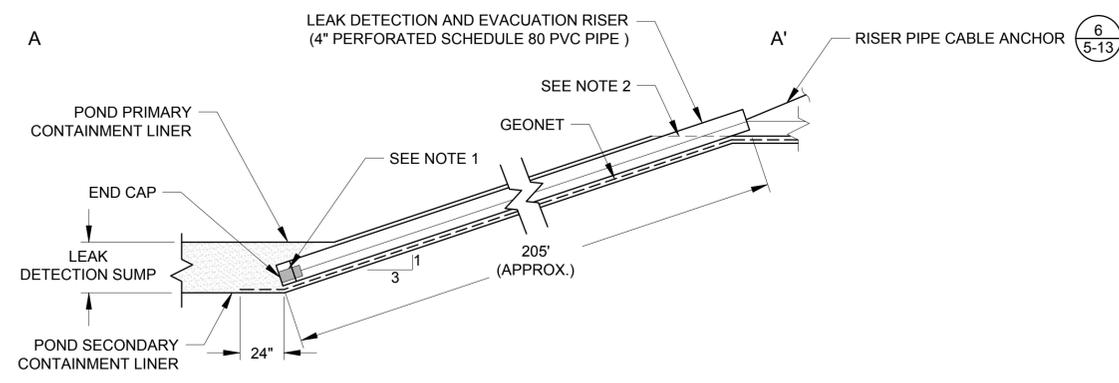
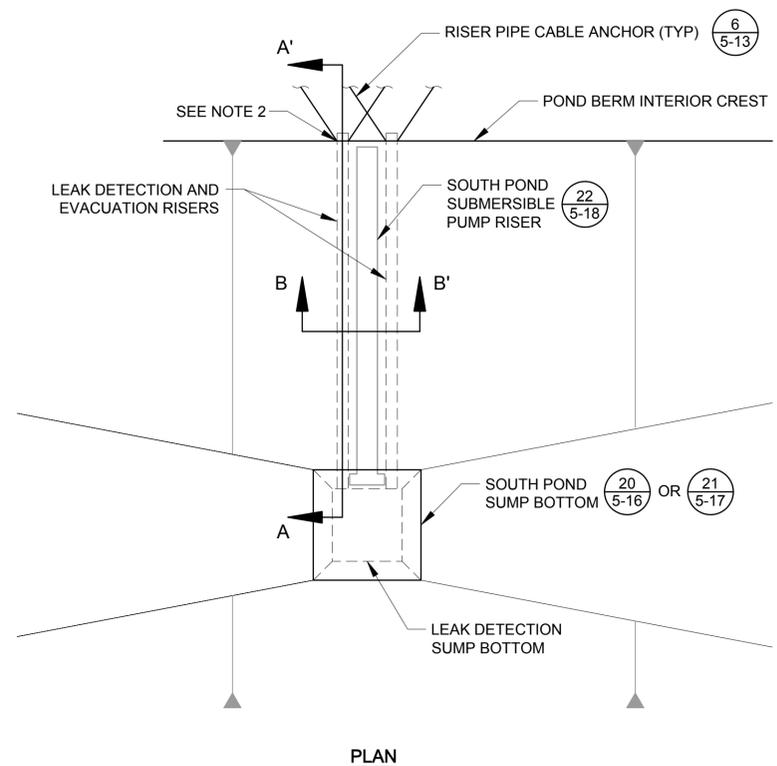
DRAWING REFERENCE(S):
 • EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV88.
 • PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE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

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	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	SOUTH POND DETAILS (2 OF 4)

	SHEET	5-17	REVISION	3
	FILE NAME	5-14	DATE	JUNE 2015



23 SOUTH POND LEAK DETECTION RISER DETAIL
5-19 NOT TO SCALE

- NOTES:**
1. PLACE A LEAK DETECTION TRANSDUCER IN 1 LEAK DETECTION RISER PER PAIR.
 2. A 60-MIL HDPE GEOMEMBRANE COLLAR TO BE EXTRUSION WELDED TO PRIMARY CONTAINMENT LINER AROUND LINER PENETRATION.
 3. SECURE RISER PIPES TOGETHER WITH EXTRUSION WELDS ON 4' SPACING.

PW \\AMER\PWP\T03\MW\GLOBAL\COM\AM_PROJECTS\03\DOCUMENTS\FC2\NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\05_STORAGE_PONDS\5-14.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	DM	SM	12-13

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.

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 USM, JULY 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD27/NOVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.

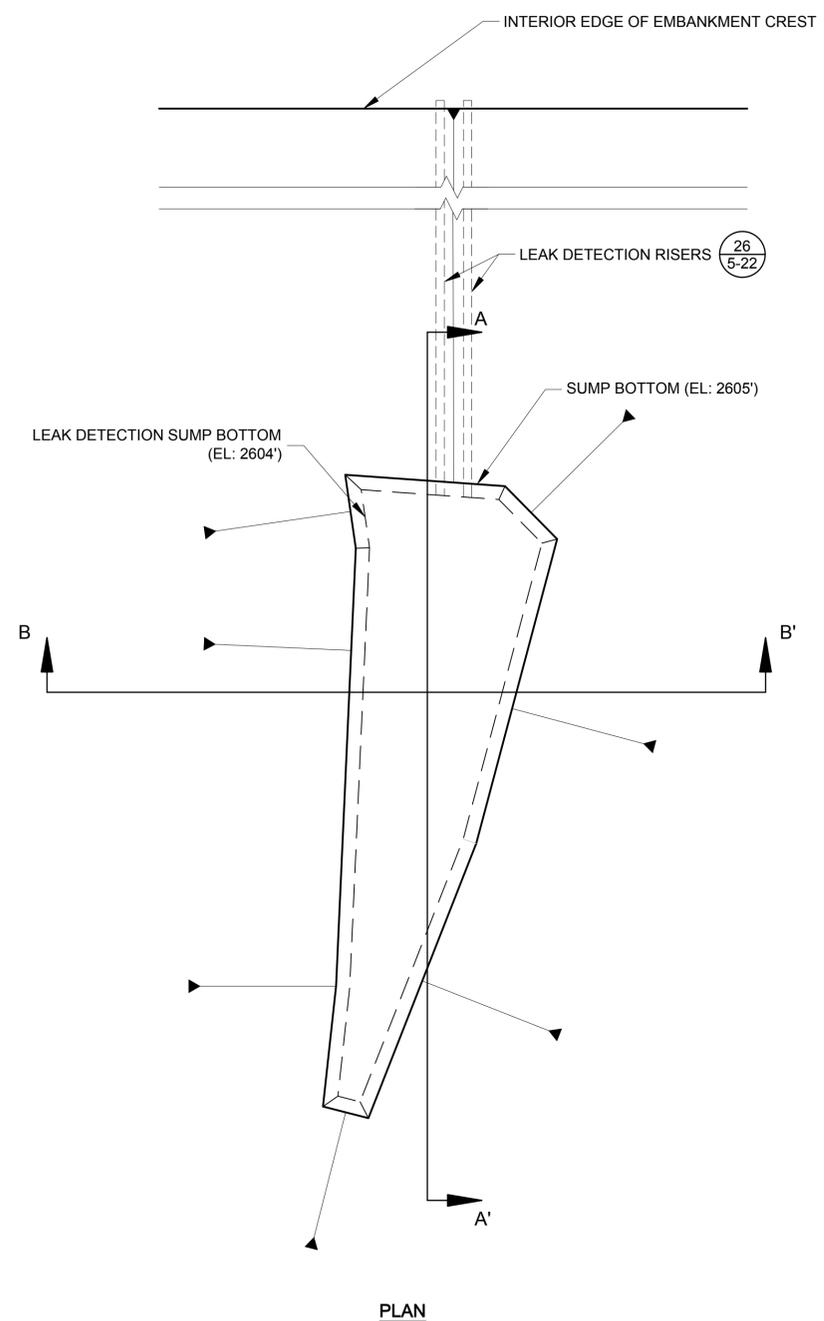
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



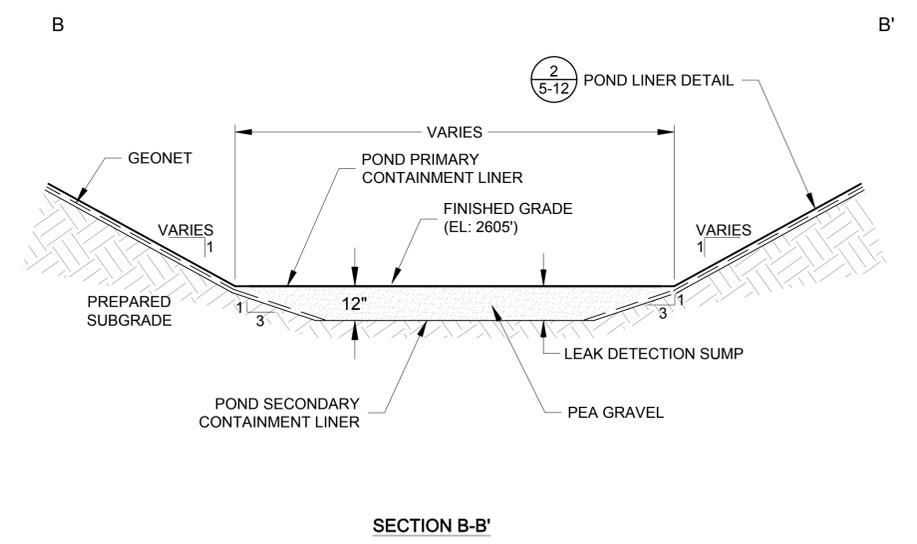
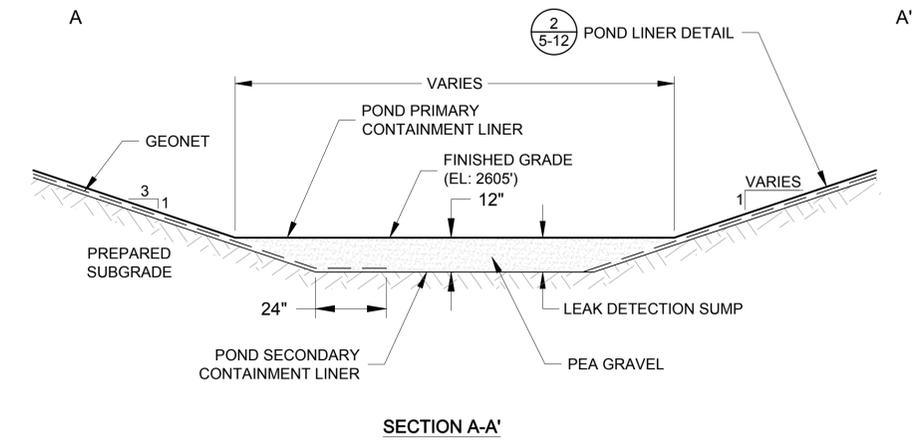
PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SOUTH POND DETAILS (4 OF 4)	

	SHEET	5-19	REVISION	3
	FILE NAME	5-14	DATE	JUNE 2015

P:\AMER\PROJECTS\03\MIDNITE MINE\RD-RA\03-SHEET SET\2015-01-01 BODR\05_STORAGE_PONDS\5-14.dwg



24 WEST POND SUMP DETAIL
5-20 NOT TO SCALE



NOTES:

1. SHAPE SUMP FINISHED GRADE TO INCLUDE A RISER "KICKER". SEE SHEET 5-21.
2. AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.

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

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.

DRAWING REFERENCE(S):
• EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
• PRELIMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND BASED BY DAWN MINING COMPANY, LLC ORIGINAL COORDINATE SYSTEM USED IN USRM MAPPING (NAD27/NAVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.

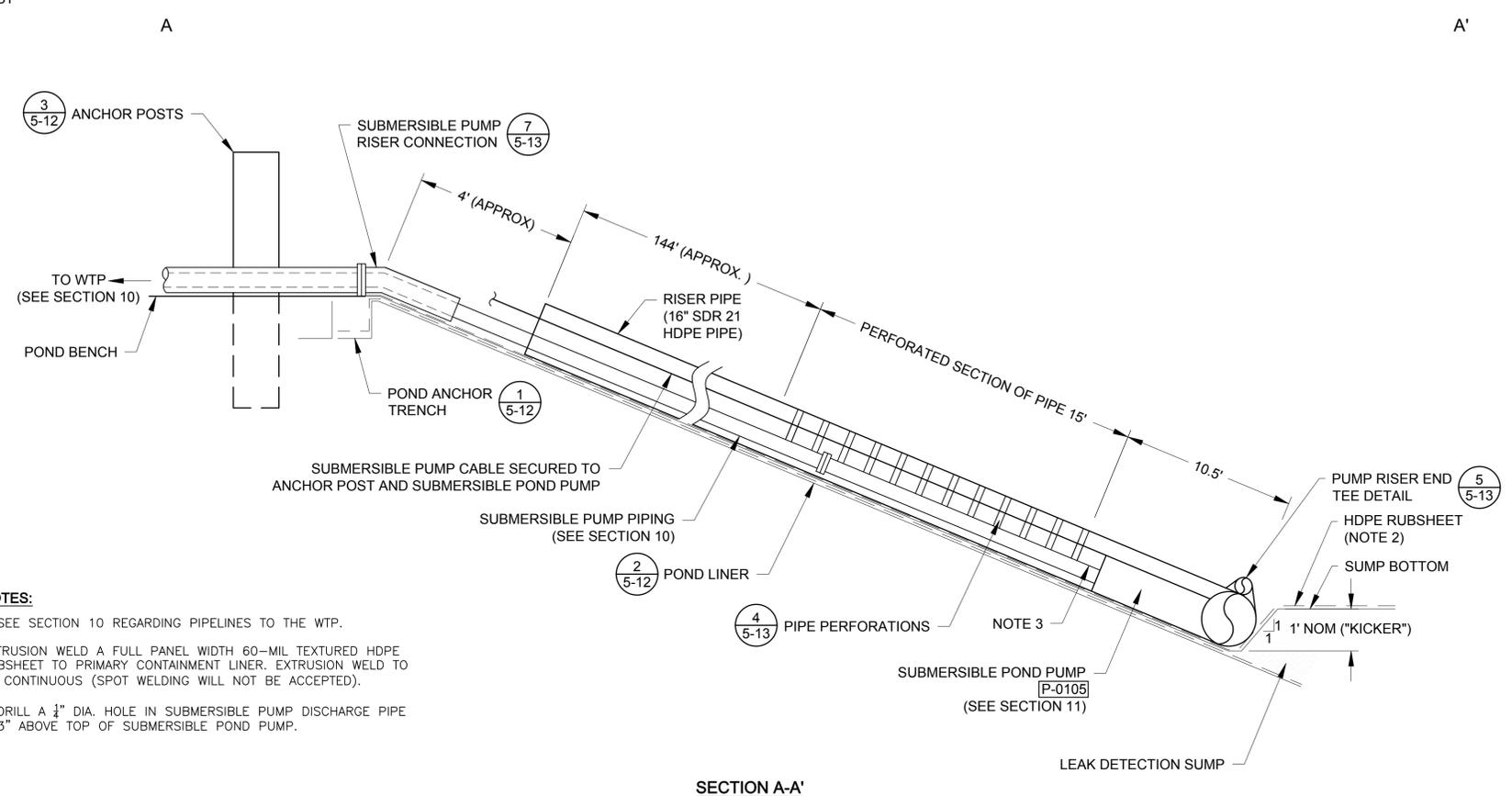
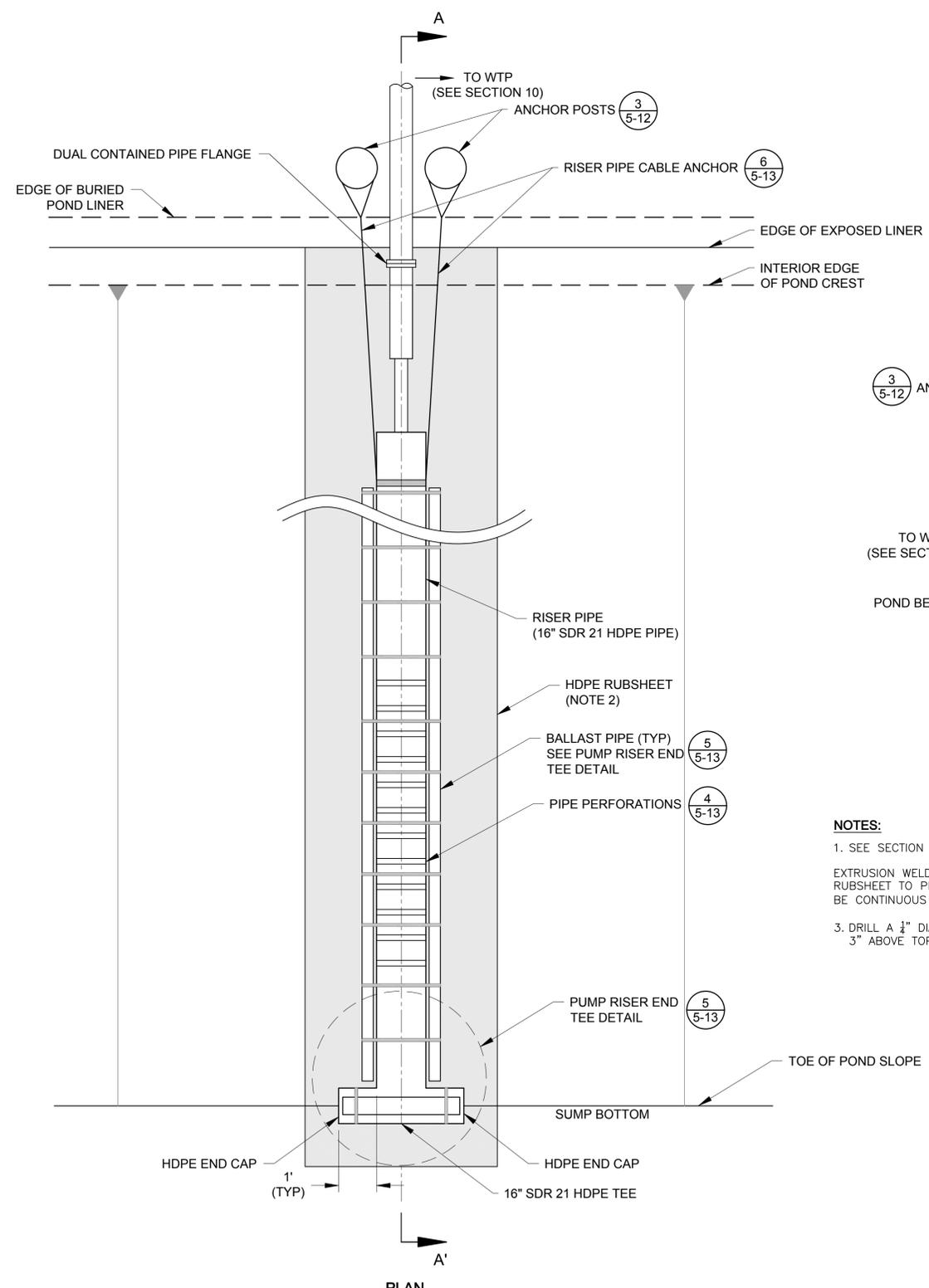
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	06-15
CHECKED BY	T KELLEY	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	WEST POND DETAILS (1 OF 3)	

SHEET	5-20	REVISION	3
	FILE NAME		5-14





NOTES:

- SEE SECTION 10 REGARDING PIPELINES TO THE WTP.
- EXTRUSION WELD A FULL PANEL WIDTH 60-MIL TEXTURED HDPE RUBSHEET TO PRIMARY CONTAINMENT LINER. EXTRUSION WELD TO BE CONTINUOUS (SPOT WELDING WILL NOT BE ACCEPTED).
- DRILL A 1/4\"/>

25 WEST POND SUBMERSIBLE PUMP RISER DETAIL
5-21 NOT TO SCALE

P:\AMER\PROJECTS\03\MIDNITE MINE\RD-RA\03-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-13.dwg

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

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.

DRAWING REFERENCE(S):

- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USRM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USRM MAPPING (NAD27/NAVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88 COORDINATES.

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

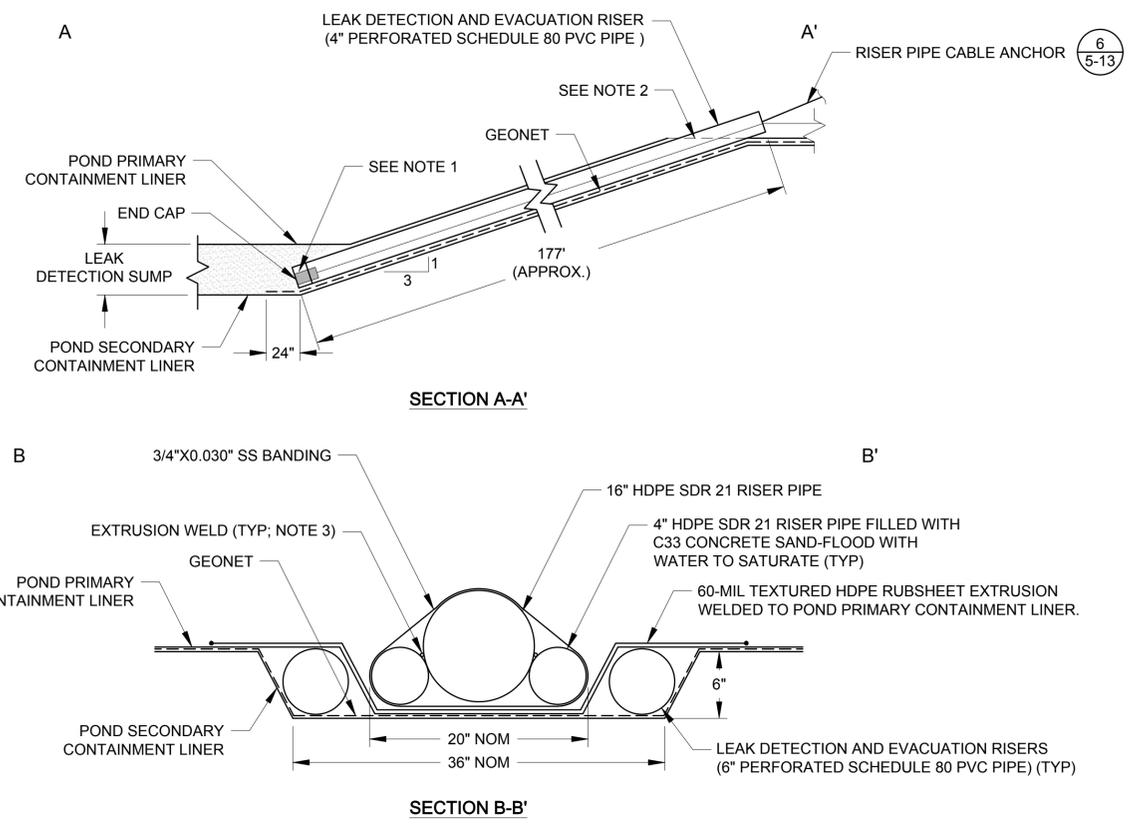
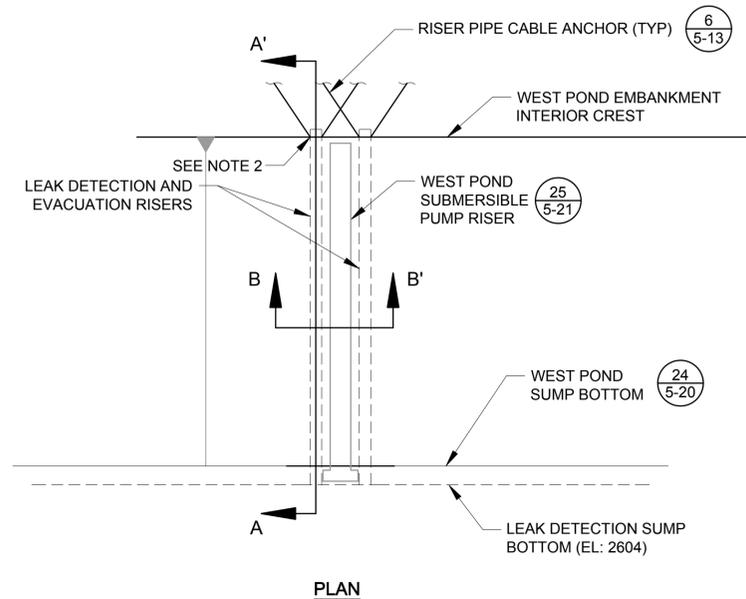


PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	WEST POND DETAILS (2 OF 3)	

SHEET	5-21	REVISION	3
	FILE NAME		5-13

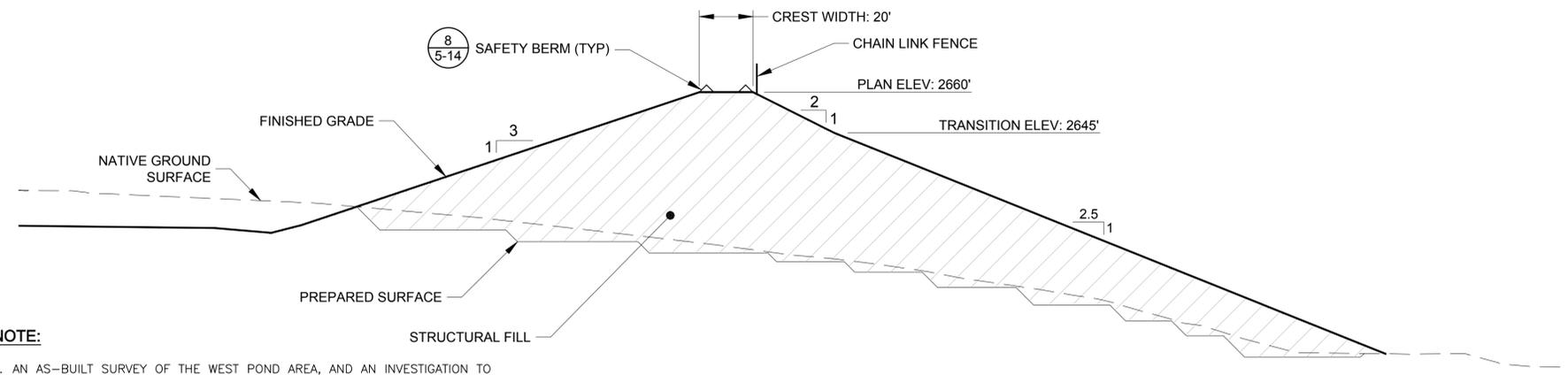


PW \\AMER\PI\W03\MW\GLOBAL\COM\AM\PROJECTS\03\DOCUMENTS\FIC2\NEW\W03\STORAGE_PONDS\5-14.dwg
 MIDNITE\W03\RA\013-SHEET SET\2015-01-01_BODR\05_STORAGE_PONDS\5-14.dwg



26
 5-22
WEST POND LEAK DETECTION RISER DETAIL
 NOT TO SCALE

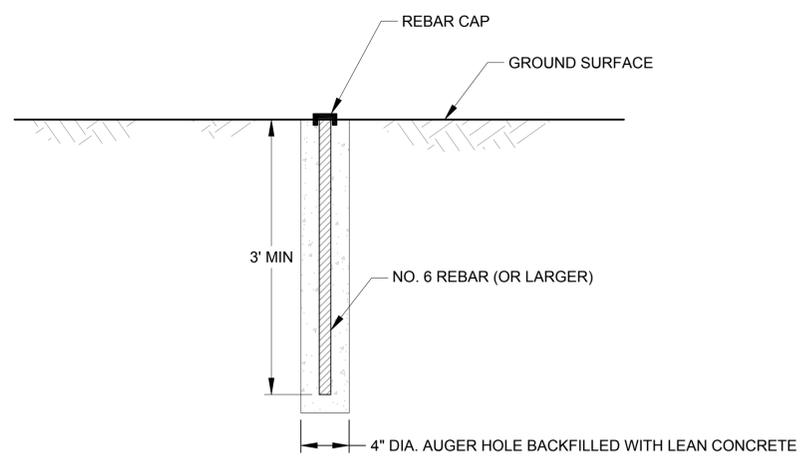
- NOTES:**
1. PLACE A LEAK DETECTION TRANSDUCER IN 1 LEAK DETECTION RISER PER PAIR.
 2. A 60-MIL HDPE GEOMEMBRANE COLLAR TO BE EXTRUSION WELDED TO PRIMARY CONTAINMENT LINER AROUND LINER PENETRATION.
 3. SECURE RISER PIPES TOGETHER WITH EXTRUSION WELDS ON 4' SPACING.



NOTE:

1. AN AS-BUILT SURVEY OF THE WEST POND AREA, AND AN INVESTIGATION TO FURTHER CHARACTERIZE GEOTECHNICAL CONDITIONS WITHIN THE WESTERN DRAINAGE WILL BE NECESSARY AFTER COMPLETION OF PHASE 2 WASTE ROCK REMOVAL WITHIN THE WESTERN DRAINAGE. THE DESIGN OF THE WEST POND MAY REQUIRE UPDATING BASED UPON THE AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION OF THE WEST POND EMBANKMENT AND SPILLWAY.

27
 5-22
WEST POND EMBANKMENT TYPICAL SECTION
 NOT TO SCALE



28
 5-22
WEST POND SETTLEMENT MONITORING POINT DETAIL
 NOT TO SCALE

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

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.

DRAWING REFERENCE(S):

- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
- PRELIMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, JULY 1995 AND PROVIDED BY BAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD27/NOV49) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	C ESPOSITO	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	WEST POND DETAILS (3 OF 3)	

	SHEET	5-22	REVISION	3
	FILE NAME	5-14	DATE	JUNE 2015