



Climax Mine
Highway 91 - Fremont Pass
Climax, CO 80429
Phone (719) 486-7718
Fax (719) 486-2251

May 17, 2024

Mr. Dustin Czapla
Environmental Protection Specialist
Division of Reclamation, Mining and Safety
Department of Natural Resources
1001 E 62nd Ave., Room 215
Denver, CO 80216

RE: Climax Mine, Permit No. M-1977-493, Technical Revision (TR)-38 – Molybdenum Removal Water Treatment Plant (MRWTP) Sludge Cell Design

Dear Mr. Czapla,

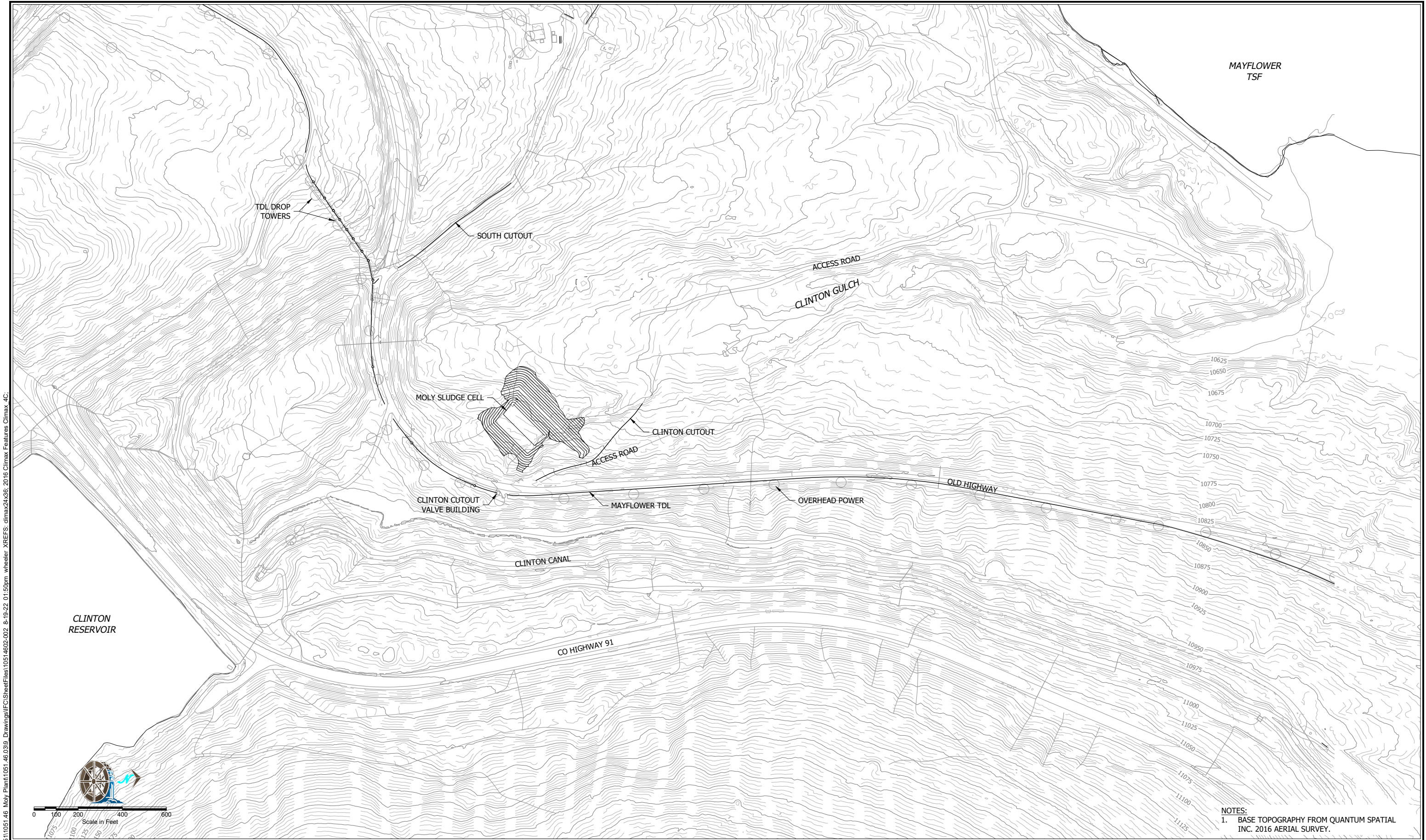
The Climax Molybdenum Company, Climax Mine plans to construct the Molybdenum Removal Water Treatment Plant (MRWTP) sludge cell in summer 2024 to store sludge generated from the new MRWTP addition to our existing Property Discharge Water Treatment Plant (PDWTP). The MRWTP construction was approved by DRMS as Technical Revision (TR-34) with comment that construction of the sludge cell will require an additional TR. The MRWTP stage of water treatment is on schedule to be commissioned in the first quarter of 2025 so the sludge cell must be completed in 2024 (before winter season) to be operational for deposition of MRWTP sludge, hauled from MRWTP via cement mixing truck. MRWTP sludge cell will not be identified as an Environmental Protection Facility (EPF), as it is fully contained within the existing EPF of Mayflower TSF and 5 Dam. This aligns with existing sludge cells (SDP and PDWTP) not being categorized as individual EPFs since they are fully contained within existing EPFs onsite, Tenmile TSF/3 Dam and Mayflower TSF/5 Dam respectively. Rule 7.3 only pertains to EPFs requiring a request to obtain Division approval to initial construction of the facility, however Climax clarified in TR-34 submittal that construction of the MRWTP sludge cell would require an additional TR submittal.

Attachments include the IFC Drawings and map of MRWTP Sludge Cell Location, and the \$1,060.00 fee applicable to a 112d operation. We appreciate your review of the TR and look forward to your approval. Please contact me at 719-486-7717 if you need additional information.

Sincerely,

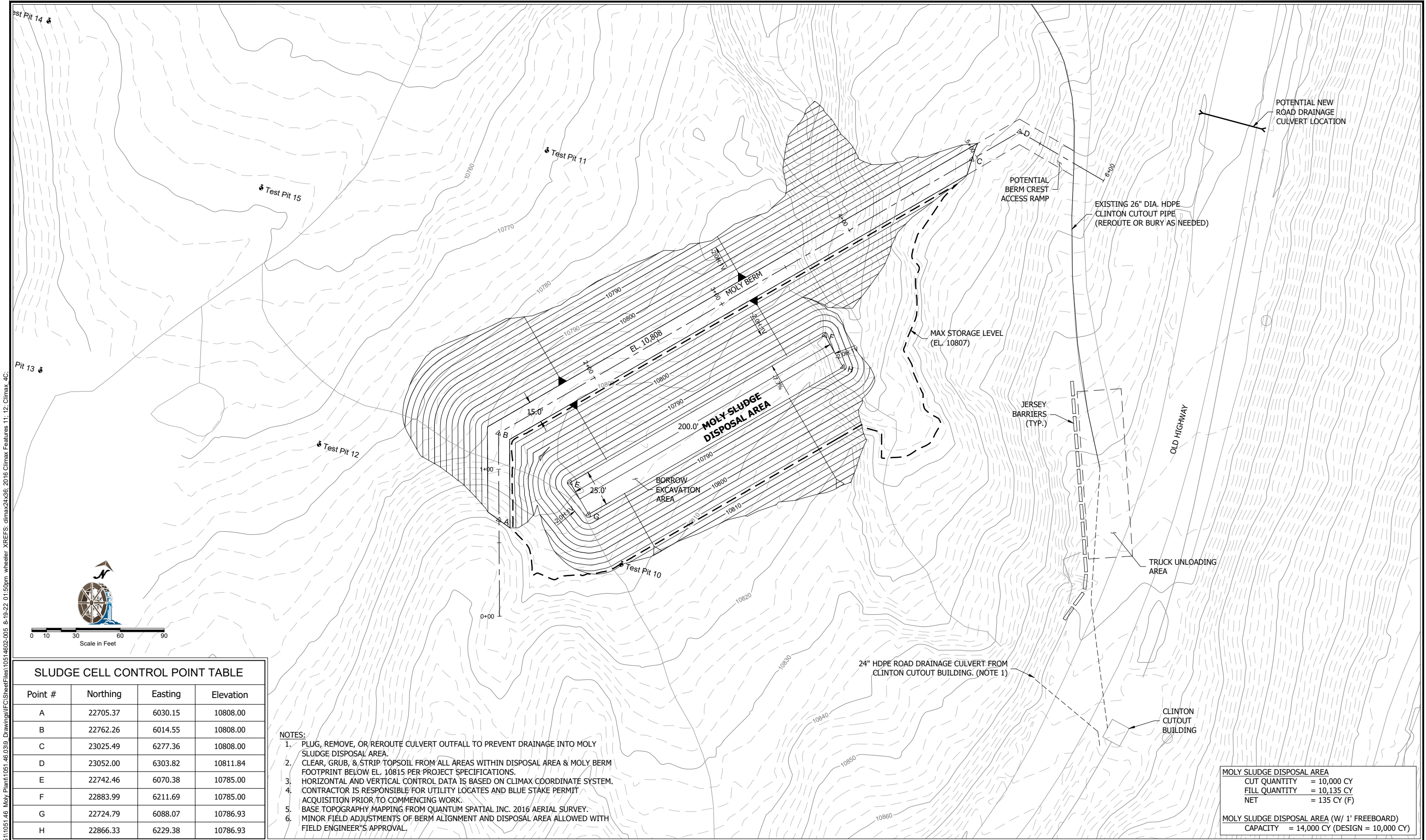
Alex Ungers
Chief Environmental Scientist

attachments



NOTES:
1. BASE TOPOGRAPHY FROM QUANTUM SPATIAL INC. 2016 AERIAL SURVEY.

REVISIONS	NO.				DATE	MADE BY	CKD. BY	REMARKS	THIS DRAWING TOGETHER WITH ANY AND ALL ADDITIONS, CORRECTIONS, CHANGES AND ALTERATIONS THEREOF IS THE PROPERTY OF CLIMAX MOLYBDENUM COMPANY AND IS FURNISHED ON THE EXPRESS CONDITION THAT IT SHALL NOT BE REPRODUCED, COPIED, LENT, OR DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SPECIFICALLY FURNISHED WITHOUT THE PRIOR WRITTEN CONSENT OF SAID CLIMAX MOLYBDENUM COMPANY.	DRAWING NO.	REFERENCE	 A Freeport-McMoRan Company	 W. W. WHEELER & ASSOCIATES, INC. Water Resources Engineers	3700 S. INCA STREET ENGLEWOOD, CO 80110-3405 303-761-4130 FAX 303-761-2802	MOLYBDENUM REMOVAL WATER TREATMENT PLANT			Climax Molybdenum Climax Mine Climax, CO		
	NO.	DATE	MADE BY	CKD. BY											MOLY SLUDGE DISPOSAL AREA			MADE BY SAA	01/22	PROJECT NUMBER 1051.46.03
		08/22	SAA	TEM				ISSUED FOR CONSTRUCTION							GENERAL ARRANGEMENT			CHECKED BY SMM	01/22	DRAWING NO.
															PLAN VIEW			ACCEPTED BY ...		G2



SLUDGE CELL CONTROL POINT TABLE

Point #	Northing	Easting	Elevation
A	22705.37	6030.15	10808.00
B	22762.26	6014.55	10808.00
C	23025.49	6277.36	10808.00
D	23052.00	6303.82	10811.84
E	22742.46	6070.38	10785.00
F	22883.99	6211.69	10785.00
G	22724.79	6088.07	10786.93
H	22866.33	6229.38	10786.93

NOTES:

1. PLUG, REMOVE, OR REROUTE CULVERT OUTFALL TO PREVENT DRAINAGE INTO MOLY SLUDGE DISPOSAL AREA.
2. CLEAR, GRUB, & STRIP TOPSOIL FROM ALL AREAS WITHIN DISPOSAL AREA & MOLY BERM FOOTPRINT BELOW EL. 10815 PER PROJECT SPECIFICATIONS.
3. HORIZONTAL AND VERTICAL CONTROL DATA IS BASED ON CLIMAX COORDINATE SYSTEM.
4. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES AND BLUE STAKE PERMIT ACQUISITION PRIOR TO COMMENCING WORK.
5. BASE TOPOGRAPHY MAPPING FROM QUANTUM SPATIAL INC. 2016 AERIAL SURVEY.
6. MINOR FIELD ADJUSTMENTS OF BERM ALIGNMENT AND DISPOSAL AREA ALLOWED WITH FIELD ENGINEER'S APPROVAL.

MOLY SLUDGE DISPOSAL AREA		
CUT QUANTITY	=	10,000 CY
FILL QUANTITY	=	10,135 CY
NET	=	135 CY (F)
MOLY SLUDGE DISPOSAL AREA (W/ 1' FREEBOARD)		
CAPACITY	=	14,000 CY (DESIGN = 10,000 CY)

REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS
	1	08/22	SAA	TEM	ISSUED FOR CONSTRUCTION

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REFERENCE DWGS	DRAWING NO.	REFERENCE



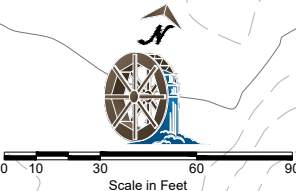
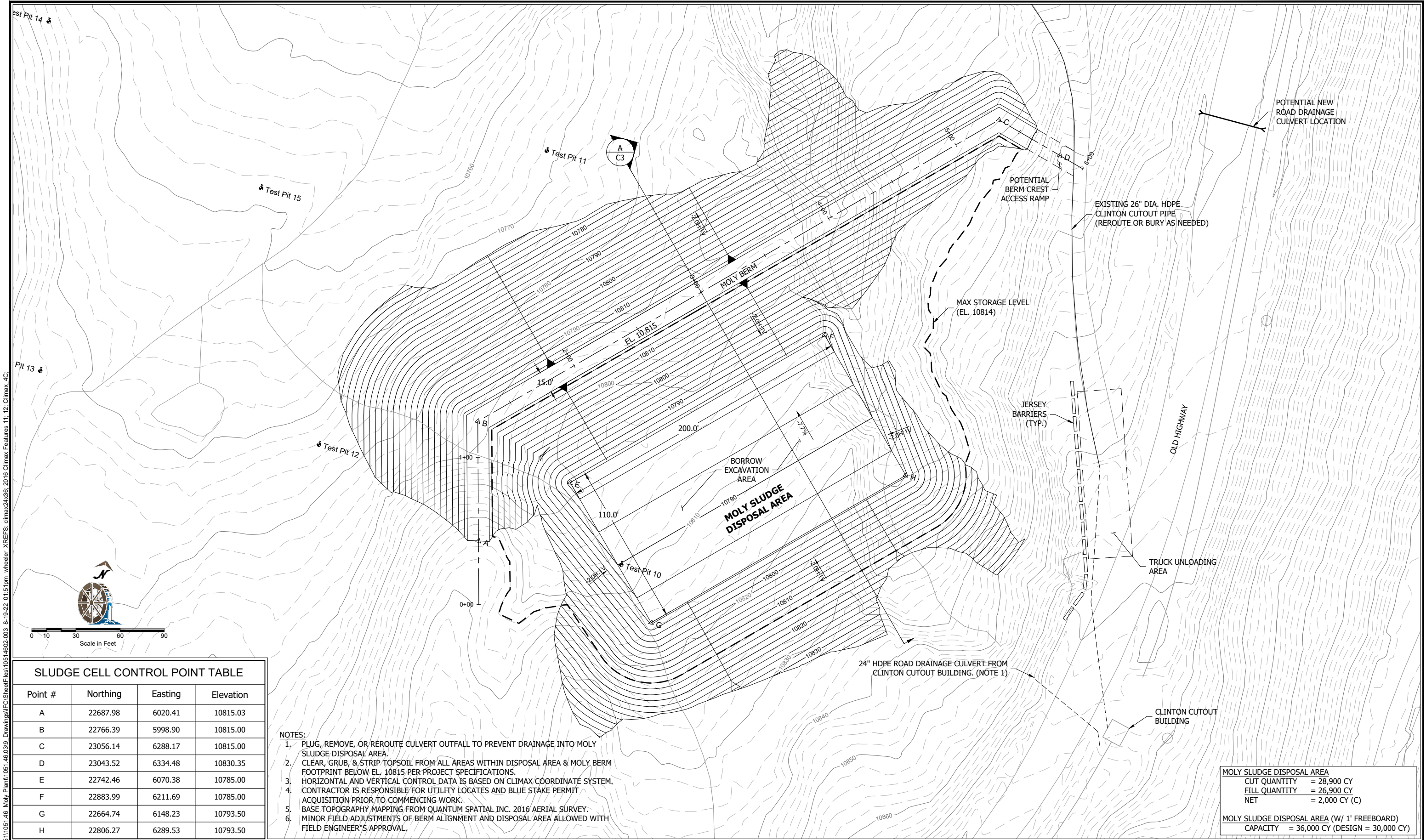
A Freeport-McMoRan Company



Water Resources Engineers

3700 S. INCA STREET
ENGLEWOOD, CO 80110-3405
303-761-4130
FAX 303-761-2802

MOLYBDENUM REMOVAL WATER TREATMENT PLANT		Climax Molybdenum Climax Mine		
MOLY SLUDGE DISPOSAL AREA		MADE BY SAA	01/22	PROJECT NUMBER 1051.46.03
MOLY BERM PHASE I		CHECKED BY TEM	01/22	DRAWING NO.
SITE PLAN		ACCEPTED BY ...		C1



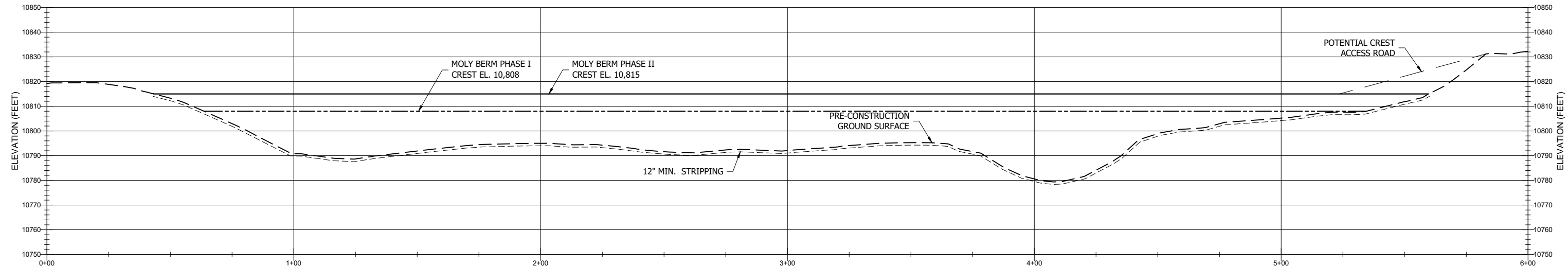
SLUDGE CELL CONTROL POINT TABLE			
Point #	Northing	Easting	Elevation
A	22687.98	6020.41	10815.03
B	22766.39	5998.90	10815.00
C	23056.14	6288.17	10815.00
D	23043.52	6334.48	10830.35
E	22742.46	6070.38	10785.00
F	22883.99	6211.69	10785.00
G	22664.74	6148.23	10793.50
H	22806.27	6289.53	10793.50

- NOTES:
1. PLUG, REMOVE, OR REROUTE CULVERT OUTFALL TO PREVENT DRAINAGE INTO MOLY SLUDGE DISPOSAL AREA.
 2. CLEAR, GRUB, & STRIP TOPSOIL FROM ALL AREAS WITHIN DISPOSAL AREA & MOLY BERM FOOTPRINT BELOW EL. 10815 PER PROJECT SPECIFICATIONS.
 3. HORIZONTAL AND VERTICAL CONTROL DATA IS BASED ON CLIMAX COORDINATE SYSTEM.
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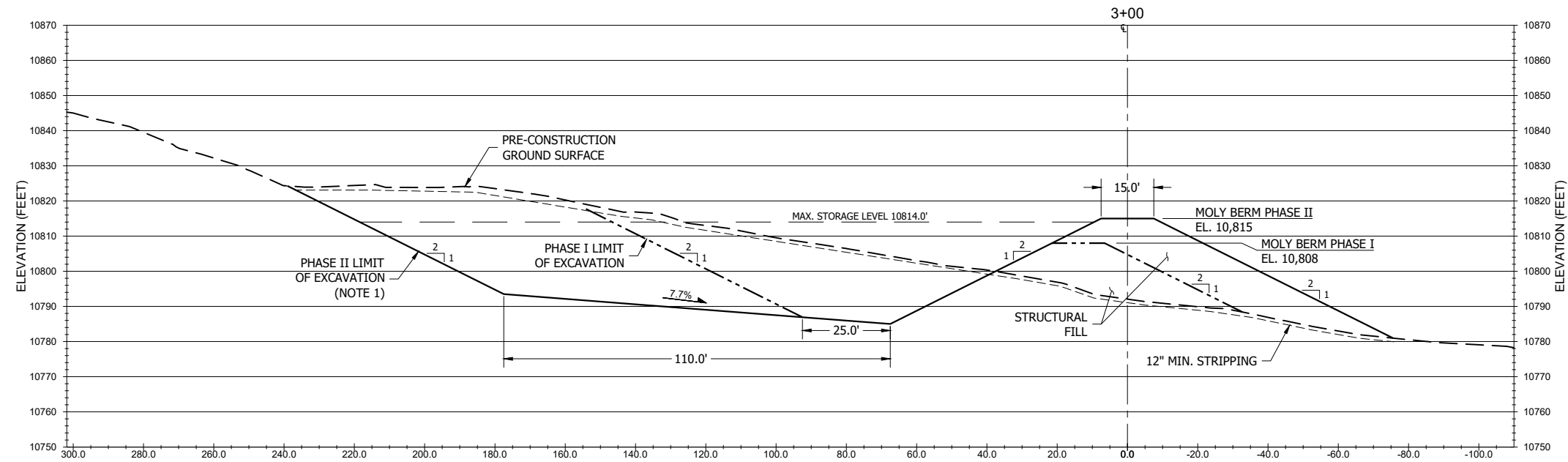
MOLY SLUDGE DISPOSAL AREA	
CUT QUANTITY	= 28,900 CY
FILL QUANTITY	= 26,900 CY
NET	= 2,000 CY (C)
MOLY SLUDGE DISPOSAL AREA (W/ 1' FREEBOARD)	
CAPACITY	= 36,000 CY (DESIGN = 30,000 CY)

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										 W. W. WHEELER & ASSOCIATES, INC. Water Resources Engineers	3700 S. INCA STREET ENGLEWOOD, CO 80110-3405 303-761-4130 FAX 303-761-2802	MOLY SLUDGE DISPOSAL AREA	MADE BY SAA	01/22	PROJECT NUMBER 1051.46.03
											MOLY BERM PHASE II	CHECKED BY SMM	01/22	DRAWING NO.	
											SITE PLAN	ACCEPTED BY ...		C2	

\\w-rs1\CLIENT\1000\1051\1051.46 Moly Plant\1051.46.03\9 Drawings\JC\SheetFiles\10514602-003 8-19-22 01:15:1pm wheeler XREFS: climax24x36; 2016 Climax Features 11; 12; Climax 4C;



Profile View of Moly Berm Alignment



MOLY BERM
SECTION



- NOTES:
1. PHASE II EXCAVATION BOTTOM ELEVATION MAY BE IMPACTED BY PREVIOUSLY STORED SLUDGE.

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											MOLY BERM		CHECKED BY SMM	01/22	DRAWING NO.
											PROFILE AND SECTION		ACCEPTED BY ...		C3
															



W. W. WHEELER
& ASSOCIATES, INC.
Water Resources Engineers

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	Climax, CO																													
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	FORWARDED BY	SMM	01/22	DRAWING NO.																										
ACCEPTED BY	...		C4																											



0 0.25 0.5 1 Miles

MRWTP Sludge Cell Location

Legend

-  Affected Land Boundary
-  Climax Property Boundary

