



Chino Mines Company
PO Box 10
Bayard, NM 88023

June 26, 2024

Certified Mail # 70190140000026680044
Return Receipt Requested

Mr. Kevin Barnes and Mr. DJ Ennis
Energy, Minerals & Natural Resources Dept
Mining and Minerals Division
Mining Act Reclamation Program
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Barnes and Ennis:

Re: Freeport-McMoRan Chino Mines Company –
Modification Request to Permit No. GR009RE- Southwest Lampbright
Waste Rock Stockpile Buttress

As we have discussed, Freeport-McMoRan Chino Mines Company (Chino) needs to construct a buttress on the north side of the Southwest Lampbright Waste Rock Stockpile to stabilize the stockpile where a toe heave has been observed. The buttress/infill was designed by Knight Piesold Consulting and is included in Attachment 5. Please note that Knight Piesold gave this buttress a new stockpile name, however, it is simply an extension of the existing Southwest Lampbright Waste Rock Stockpile and is being built to stabilize the stockpile. The entire area of the butress/infill is inside the the current Design Limits of the existing Lampbright stockpiles. Attachment 1 is a copy of the current design limits.

During our discussion you raised a question regarding whether there is a change to the Chino Closure-Closeout Plan (CCP) as currently approved. Provided in Attachment 3 are two figures of the area of the Southwest Lampbright Waste Rock Stockpile and the buttress/infill. The first figure shows the current topography of the Southwest Waste Rock Stockpile and the Lampbright Leach Stockpile. This shows a small corridor between the two stockpiles which results in two steep slopes that have to be reclaimed at closure. The current reclamation design (Attachment 2) grades and covers the slopes and maintains a drainage in this corridor. The second figure shows the buttress filling in the corridor between the two stockpiles. Included on these figures are the flat areas in green and the slopes in yellow and pink. As you can see, the slopes are reduced by 28 acres and the flat area increased by 28 acres. As we know, flat areas are less expensive to reclaim than slopes and therefore, our analysis is that the construction of the buttress will result in a slight reduction in cost and associated financial assurance. This buttress was also included in the Renewal and Modification of DP-376 with the New Mexico Environment Department. A map of the Lampbright area including the SW Lampbright Stockpile and the buttress from DP-376 is included in Attachment 4.

After our discussion on June 14, 2024, MMD determined that according to 19.19.5.505 NMAC, the designed buttress/infill will require a permit modification due to a change in the financial assurance associated with the approved closeout plan. A check in the amount of \$1,000 as

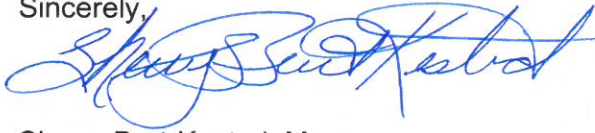
Messers. Barnes and Ennis

June 26, 2024

Page 2

required by 19.10.2.201 is attached for processing this permit modification request. If you have any questions, please contact me at 575-912-5927.

Sincerely,



Sherry Burt-Kested, Manager
Environmental Services

Attachments:

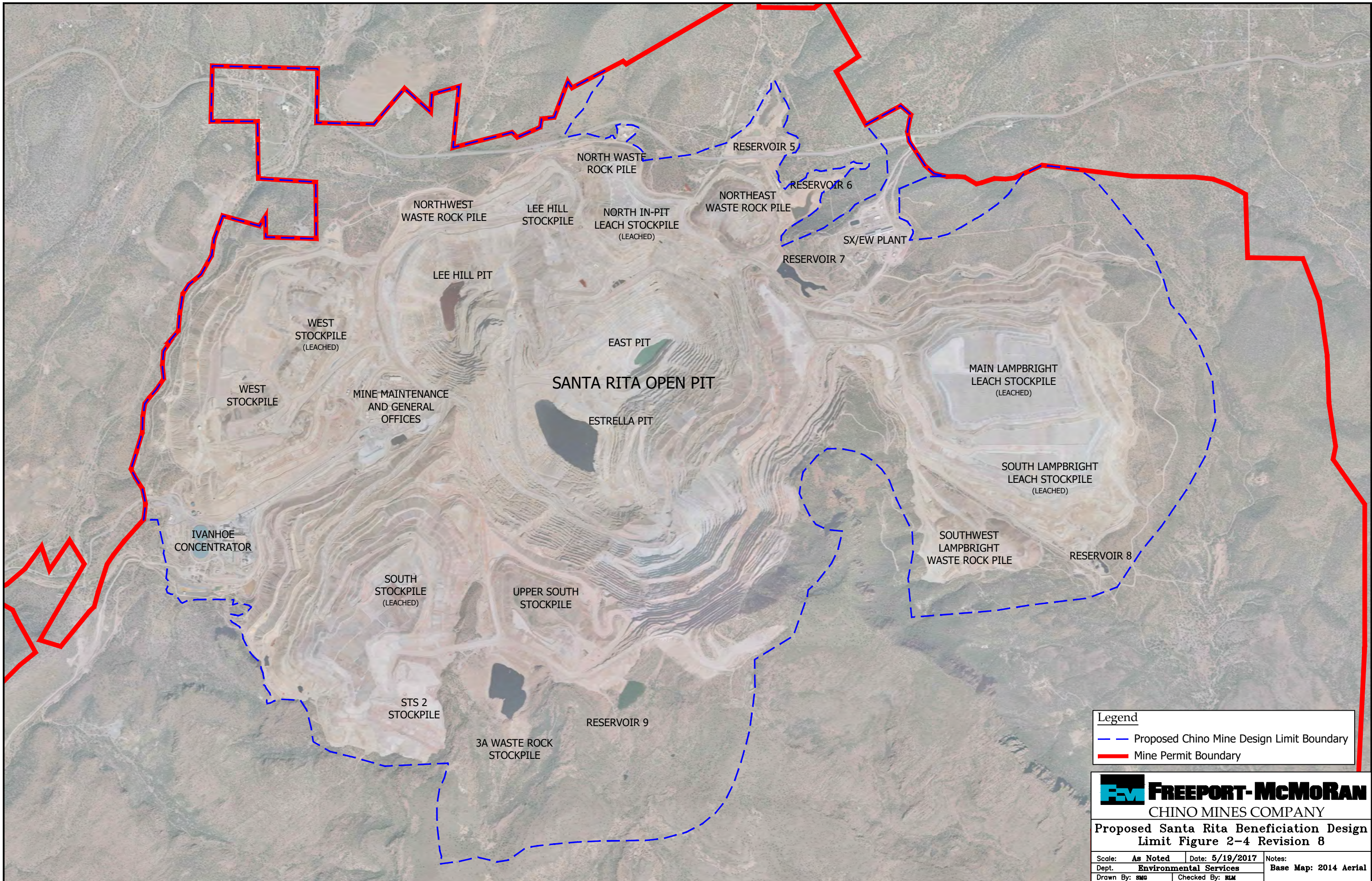
1. Chino Mine Design Limits
2. Reclamation Design Drawing No. 7, Chino CCP Appendix A
3. Closure Design of SW Waste Rock Stockpile Before and After Buttress
4. DP-376 Map of SW Waste Rock Stockpile including Buttress
5. Knight Piesold Consulting Design of the Southwest Lampbright Waste Rock Stockpile Buttress/Infill
6. Check for \$1,000 for permit modification processing



SBK: ml

Enclosures

20240626-002

Chino Mine Design Limits



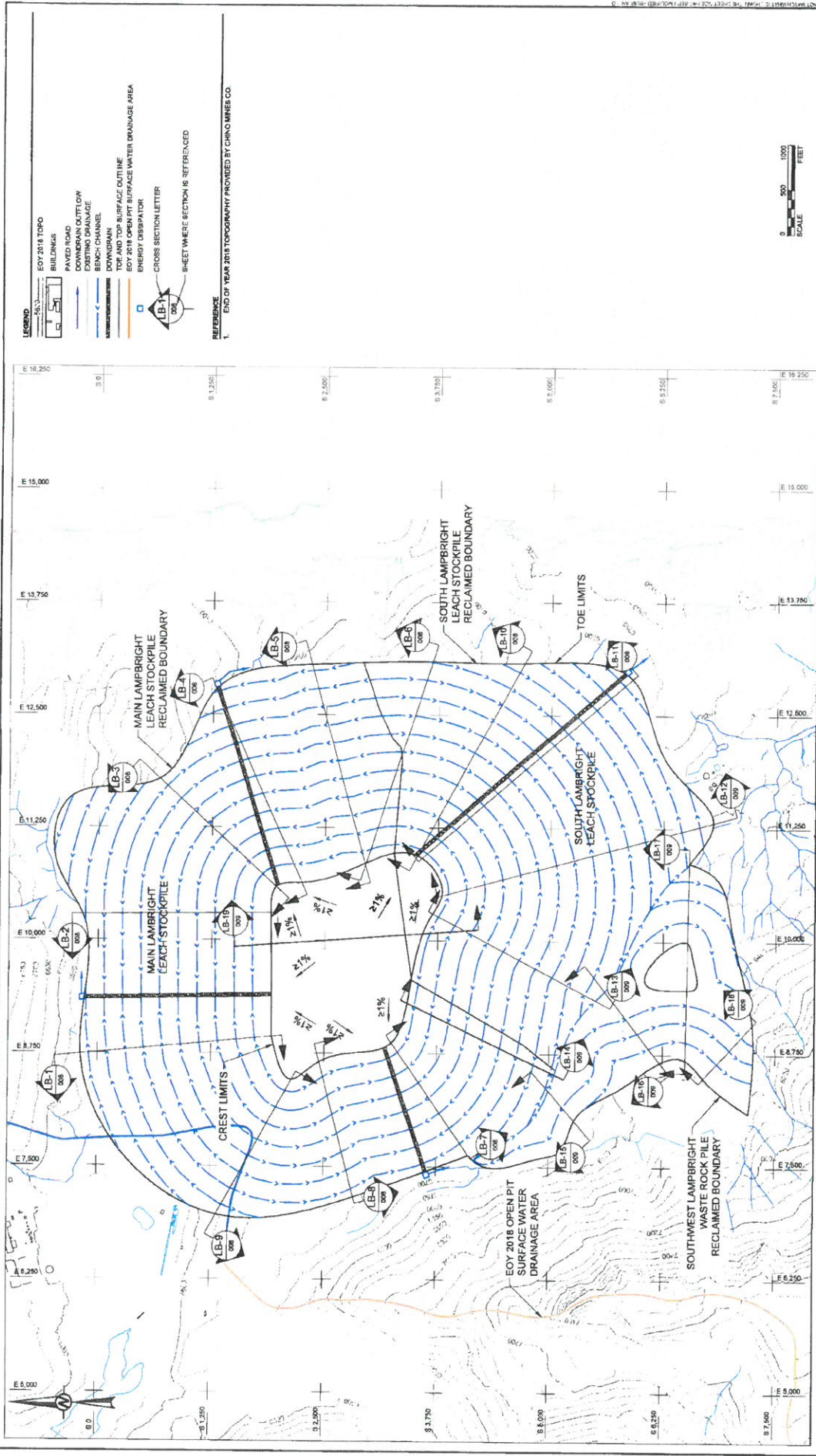
Legend	
	Proposed Chino Mine Design Limit Boundary
	Mine Permit Boundary

FMC **FREEPORT-McMORAN**
CHINO MINES COMPANY

Proposed Santa Rita Beneficiation Design Limit Figure 2-4 Revision 8

Scale: As Noted	Date: 5/19/2017	Notes:
Dept: Environmental Services	Base Map: 2014 Aerial	
Drawn By: SMG	Checked By: RLM	

**Reclamation Design Drawing No. 7,
Chino CCP Appendix A**



- LEGEND**
- EOY 2018 TOPO
 - BUILDINGS
 - PAVED ROAD
 - DOWNDRAIN OUTFLOW
 - EXISTING DRAINAGE
 - BENCH CHANNEL
 - DOWNDRAIN
 - EOY 2018 SURFACE OUTLINE
 - EOY 2018 OPEN PIT SURFACE WATER DRAINAGE AREA
 - ENERGY DISTRIBUTOR
 - CROSS SECTION LETTER

REFERENCE

1. END OF YEAR 2018 TOPOGRAPHY PROVIDED BY CHINO MINES CO.



PROJECT
CLOSURE/CLOSEOUT PLAN UPDATE
CHINO MINES COMPANY
GRANT COUNTY, NEW MEXICO

TITLE
LAMPBRIGHT STOCKPILE GRADING AND DRAINAGE PLAN

PROJECT No. 1401129
Rev. C
6 of 30
FIGURE 007

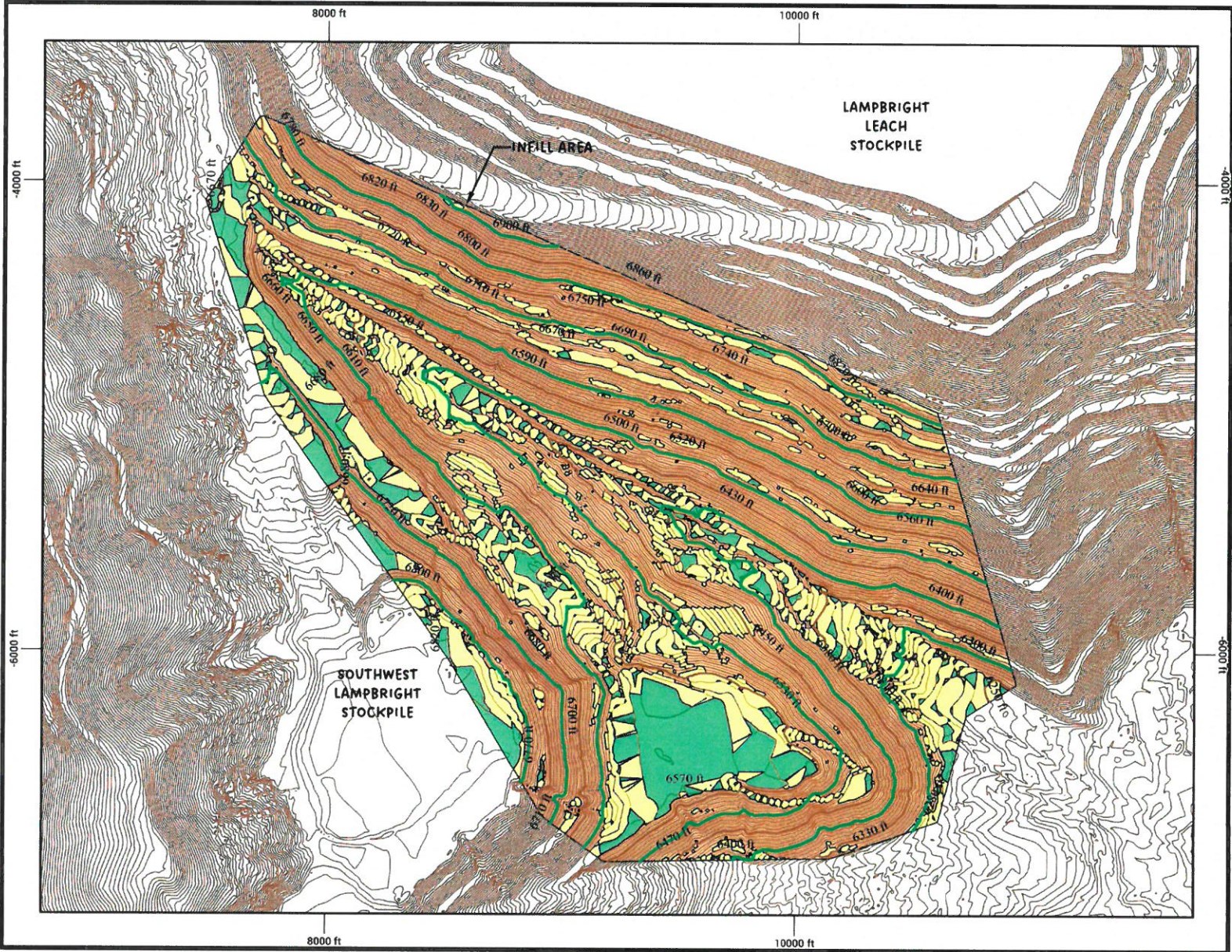
CLIENT
CHINO MINES COMPANY

CONSULTANT
GOLDER ASSOCIATES
DENVER OFFICE
44 Union Boulevard, Suite 300
Littleton, Colorado
(303) 769-0540
www.golder.com



Rev.	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
C	2016-04-12 INCORPORATE CLIENT COMMENTS & ISSUE FOR CLIENT REVIEW					
	Rev. 17114.1.2-00 DESCRIPTION					

**Closure Design of SW Waste Rock Stockpile
Before and After Buttress**



NOTES:

- 0-5%
14 Acres
- 5-33%
38 Acres
- >33%
92 Acres



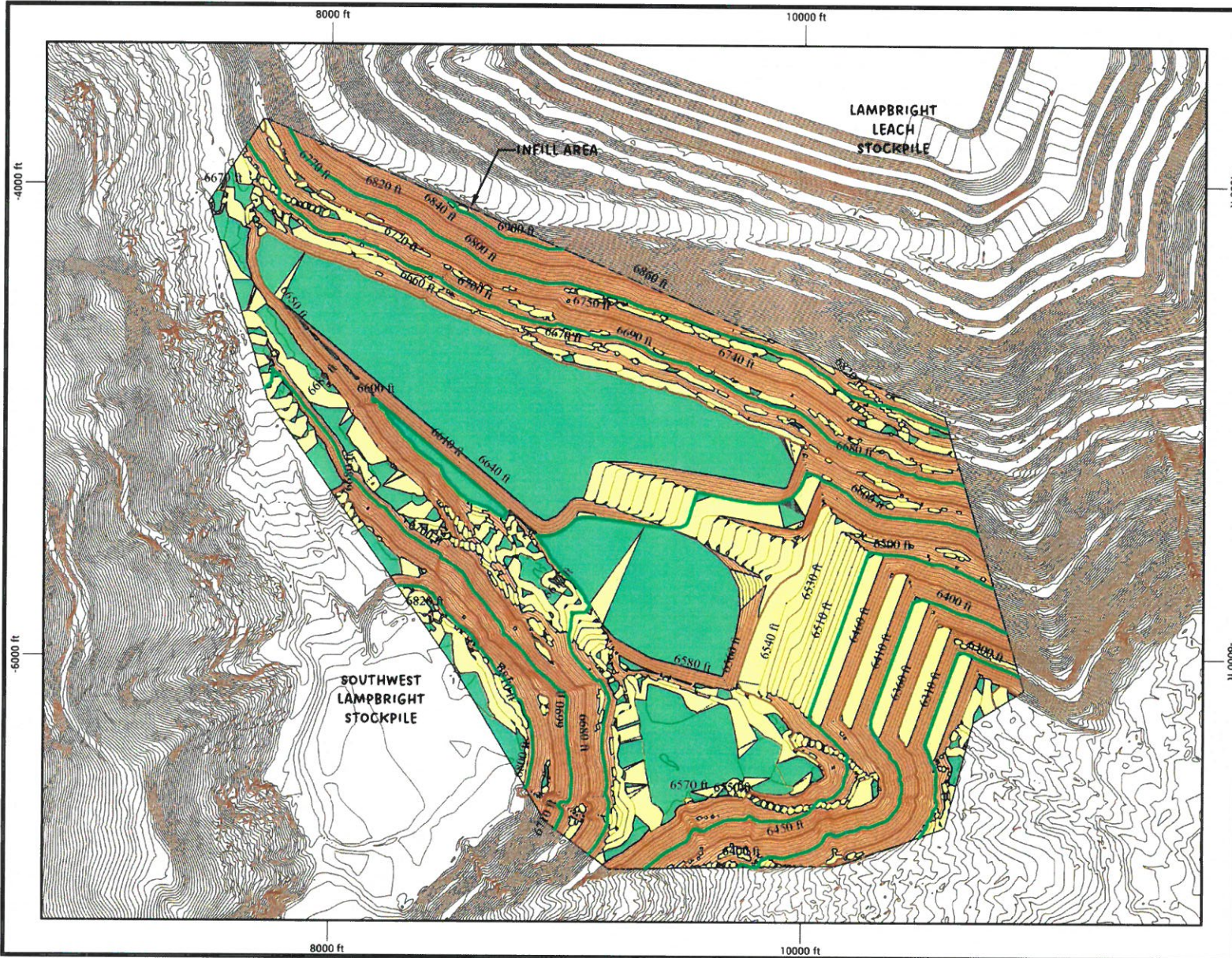


 SCALE IN FEET
 COORDINATE SYSTEM
 NAD83 CHINO LOCAL

FIGURE 1
SW AND LAMPBRIGHT BUTTRESS
PRE-PLACEMENT

PREPARED BY:


PREPARED FOR:

NOTES:

- 0-5%
42 Acres
- 5-33%
37 Acres
- >33%
65 Acres

SCALE IN FEET

COORDINATE SYSTEM
NAD83 CHINO LOCAL

FIGURE 2
SW AND LAMPBRIGHT BUTTRUSS
POST-PLACEMENT

PREPARED BY:

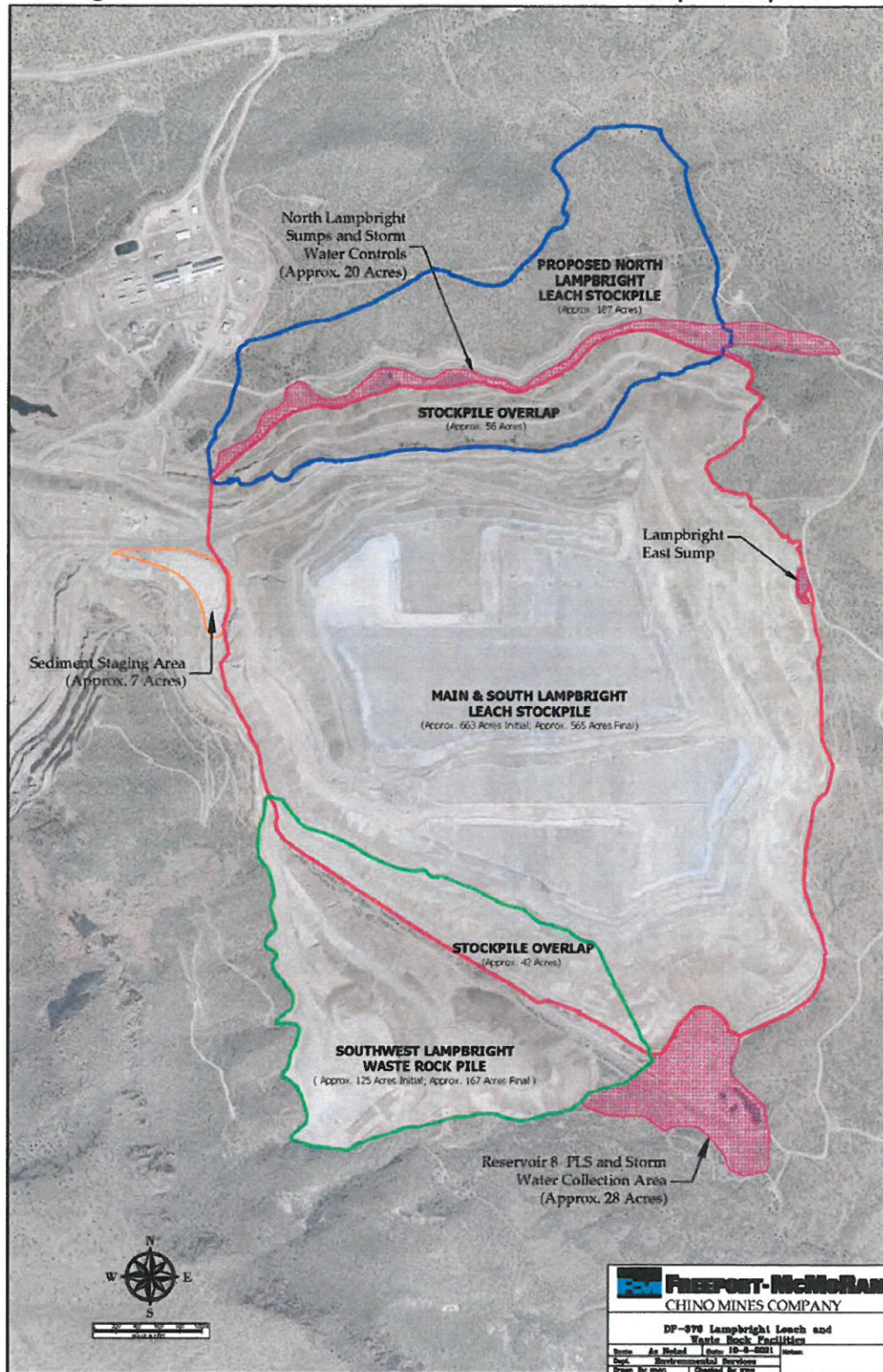
TELESTO
SOLUTIONS INCORPORATED

PREPARED FOR:

Freeport-McMORAN

**DP-376 Map of SW Waste Rock Stockpile
including Buttress**

Figure 1 – Authorized DP-376 Leach and Waste Rock Stockpile Footprints



**Knight Piesold Consulting Design of the Southwest
Lampbright Waste Rock Stockpile Buttress/ Infill**

FREEPORT-MCMORAN CHINO MINES COMPANY
CHINO MINE
GRANT COUNTY, NEW MEXICO, USA

DAM EIGHT WASTE ROCK STOCKPILE
DETAILED DESIGN

DRAWINGS INDEX			
DRAWING NUMBER	DRAWING TITLE	REVISION	REVISION DATE
000	COVER SHEET	B	12/20/2023
005	PROJECT LOCATION MAP	B	12/20/2023
050	OVERALL SITE PLAN	B	12/20/2023
060	EXISTING CONDITIONS PLAN	B	12/20/2023
100	DAM EIGHT WASTE ROCK STOCKPILE GENERAL LAYOUT	C	12/20/2023
102	DAM EIGHT WASTE ROCK STOCKPILE TYPICAL SECTION	C	12/20/2023
106	BUTTRESS FOUNDATION EXCAVATION PLAN	C	12/20/2023
110	BUTTRESS GENERAL LAYOUT	C	12/20/2023
116	UNDERDRAIN PLAN	B	12/20/2023
118	UNDERDRAIN PROFILE	B	12/20/2023
120	RESIDUAL SEEPAGE COLLECTION BUMP PLAN, PROFILE, DETAIL, AND SECTION	B	12/20/2023
128	TYPICAL SECTIONS AND DETAILS	B	12/20/2023
130	IMPACTED STORMWATER DIVERSION CHANNEL PLAN	B	12/20/2023
132	WEST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE (1 OF 2)	B	12/20/2023
133	WEST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE (2 OF 2)	B	12/20/2023
134	WEST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA	B	12/20/2023
136	WEST IMPACTED STORMWATER DIVERSION CHANNEL SECTIONS	B	12/20/2023
138	EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE	B	12/20/2023
137	EAST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA	B	12/20/2023
138	EAST IMPACTED STORMWATER DIVERSION CHANNEL SECTIONS	B	12/20/2023
146	IMPACTED STORMWATER DIVERSION CHANNEL DETAILS	B	12/20/2023

ISSUED FOR REVIEW
DECEMBER 20, 2023

Prepared for:
FREEPORT-MCMORAN
CHINO MINES COMPANY

PHYSICAL:
99 SANTA RITA MINE ROAD
VANADIUM, NEW MEXICO
USA, 88023

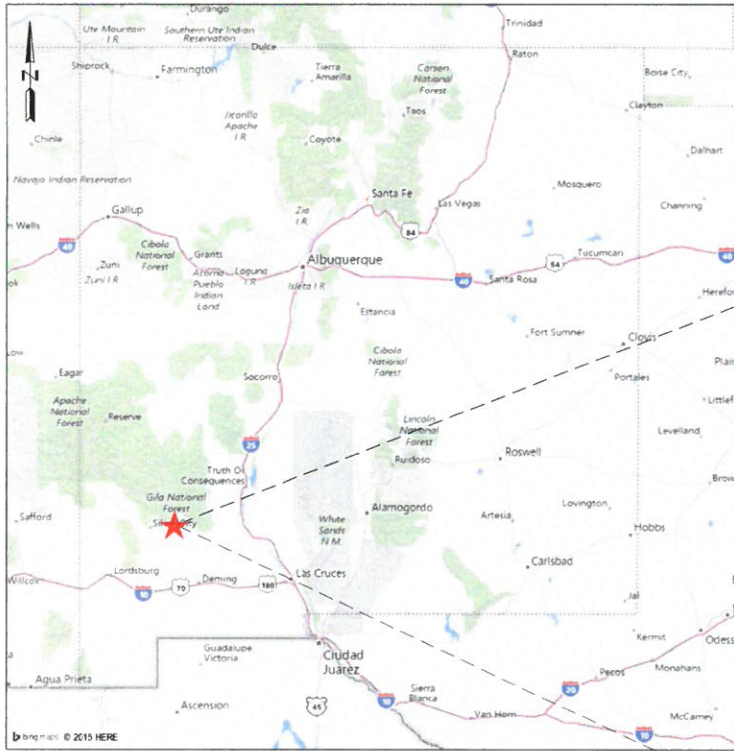
MAILING:
P.O. BOX 10
BAYARD, NEW MEXICO
USA, 88023

Prepared by:



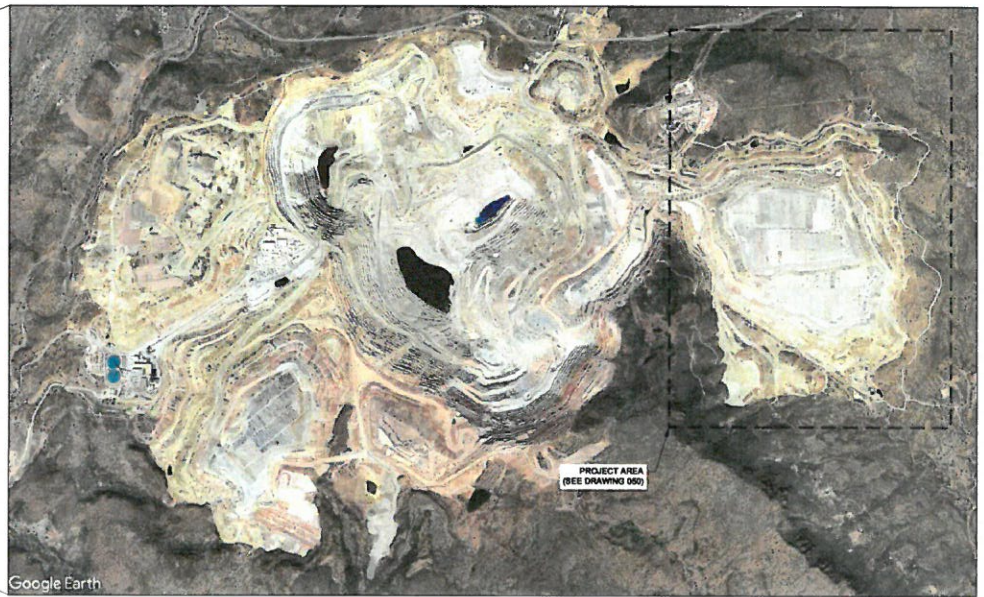
1999 Broadway, Suite 900
 Denver, Colorado 80202
 3275 West Ina Road, Suite 109
 Tucson, Arizona 85741

460 West Silver Street, Suite 106
 Elko, Nevada 89601



© 2015 HERE
 HERE MAPS SERVICE IS NOT REPRODUCED WITH PERMISSION FROM MICROSOFT CORPORATION.

STATE OF NEW MEXICO
 NTS



Google Earth

PROJECT LOCATION MAP
 NTS

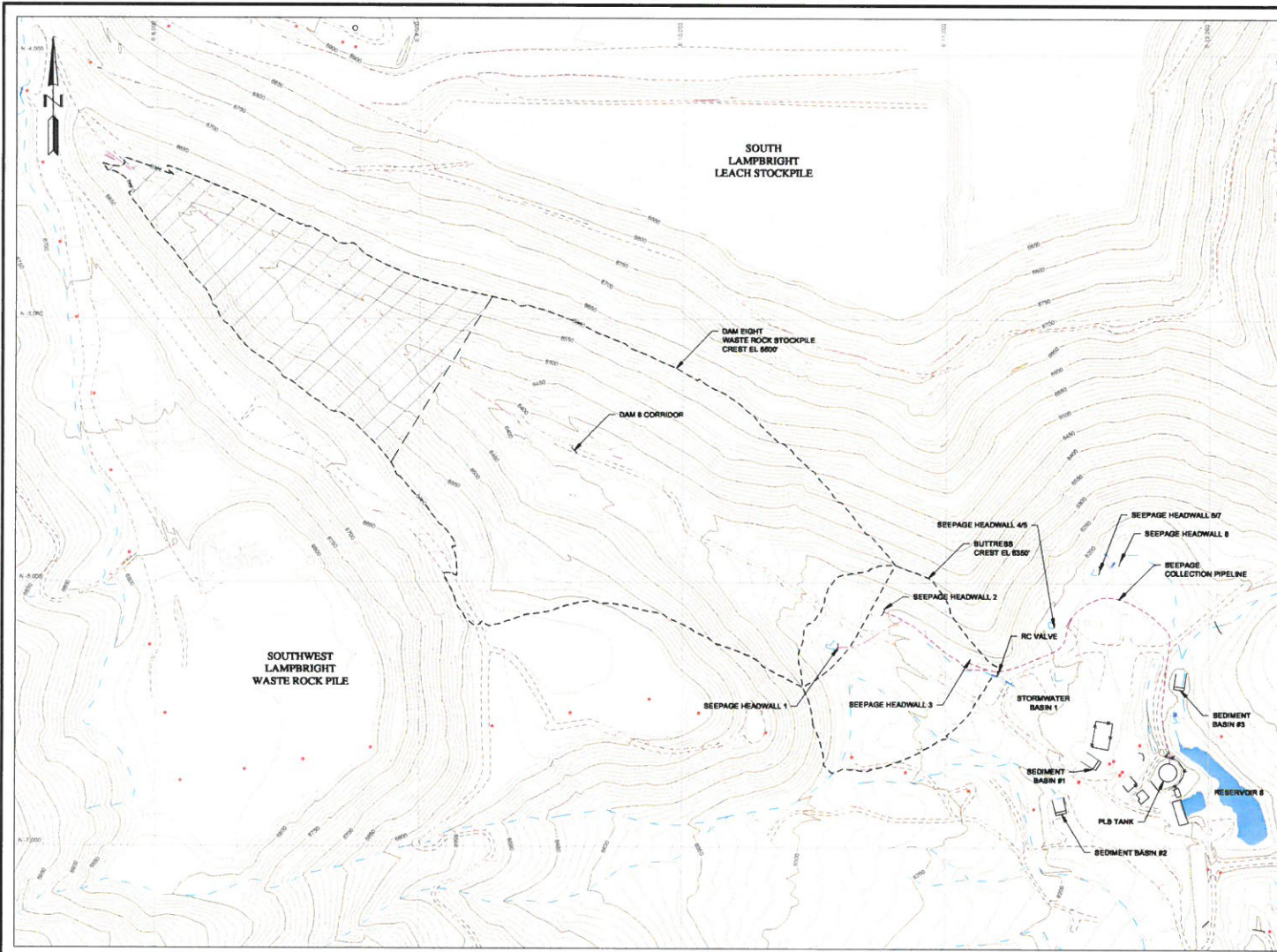
I:\Projects\2015\CHINO DAM\Drawings\005\CHINO DAM Waste Rock Stockpile\005.dwg
 DRAWN BY: J.A. JAMES
 CHECKED BY: RICHARD BRIDON, PRINT TIME: 11/20/2015 10:11 AM

REV	DATE	DESCRIPTION	APP'D	CHECKED
A	10/19/2015	ISSUED FOR INTERNAL REVIEW	RB	JA
B	12/07/2015	ISSUED FOR REVIEW	RB	JA
—	—	—	—	—

DISCLAIMER
 KNIGHT PISCOLD AND CO. PROVIDES THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PISCOLD AND CO.

CLIENT: **FREEPORT-MCMORAN CHINO MINES COMPANY**

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE				
TITLE: PROJECT LOCATION MAP				
DESIGNED BY: RB	LOCATION: TU101	PROJECT NUMBER: 00636.09	DRAWING NUMBER: 005	REVISION: B
DRAWN BY: JA				



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
 - EXISTING DRAINAGE
 - EXISTING ROAD
 - EXISTING POWERPOLE
 - EXISTING BUILDINGS AND INFRASTRUCTURE
 - WASTE ROCK STAGING AREA (SEE NOTE 2)

- NOTES:**
1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 2. WASTE ROCK STAGING AREA REQUIRES NO PRIOR PREPARATION AND MAY BE USED AS SOON AS PERMITTED BY THE STATE.

REFERENCE:
 - EXISTING TOPOGRAPHY PROVIDED BY FREDY HORN MCMORAN CHINO MINES COMPANY ON 10/15/18 & 2/21/19 (2018 & 2019)
 SURVEYS. RE SURVEYS BY LAND UNITED STATES GEOLOGICAL SURVEY (ACQUIRED 2/23/21)
 - EXISTING WASTE ROCK STOCKPILE LIMITS PROVIDED BY FREDY HORN MCMORAN CHINO MINES COMPANY ON 07/23/23
 - COORDINATE SYSTEM: LOCAL MINE GRID



REV	DATE	DESCRIPTION	APP'D	CHK'D
A	10/13/2023	ISSUED FOR INTERNAL REVIEW	MS	JA
B	1/30/2024	ISSUED FOR REVIEW	MS	JA

DISCLAIMER

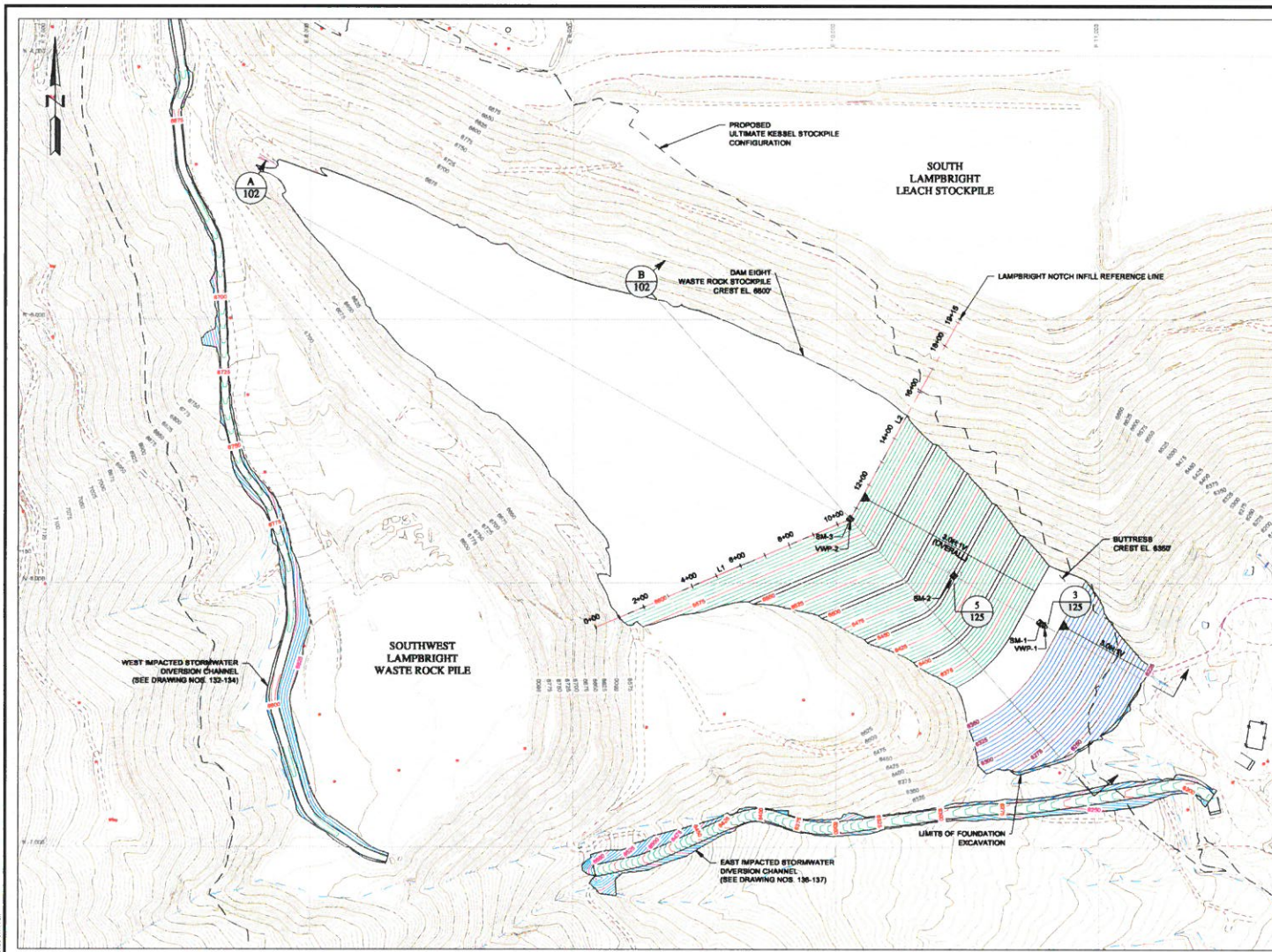
Knight Piésold and Co. produced the data shown herein using both technical information and methods. Receipt of this drawing does not warrant to the recipient any rights to such technical information or methods. Any adaptation or modification of the data on drawing shall be at user's sole risk and without liability or legal exposure to Knight Piésold and Co.

CLIENT: **FREEMPORT-MCMORAN CHINO MINES COMPANY**

Knight Piésold CONSULTING

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE				
TITLE: EXISTING CONDITIONS PLAN				
DESIGNED BY: MS	LOCATION: TU101	PROJECT NUMBER: 00636.09	DRAWING NUMBER: 060	REVISION: B
DRAWN BY: JA				

LAST SAVE BY: HERNANDEZ
 DATE: 1/30/2024 10:45:00 AM
 PRINTED BY: MICHAEL BENDIS
 PRINT TIME: 1/30/2024 8:01 AM



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
 - REGRADED GROUND SURFACE CONTOUR AND EL. FEET
 - PROPOSED BUTTRISS SURFACE CONTOUR AND EL. FEET
 - EXCAVATED GROUND SURFACE CONTOUR AND EL. FEET
 - EXISTING DRAINAGE
 - EXISTING ROAD
 - EXISTING POWERPOLE
 - EXISTING BUILDINGS AND INFRASTRUCTURE
 - VWP-1 PROPOSED VIBRATING WIRE PIEZOMETER LOCATION
 - SM-1 PROPOSED SURVEY MONUMENT LOCATION

**TABLE 1
LAMPBRIGHT NOTCH INFILL REFERENCE LINE
HORIZONTAL CONTROL DATA**

ID	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)
L1	0+00.0	-5,108.0	9,084.3	
	10+53.1	-5,755.4	10,052.7	
L2	10+53.1	-5,755.4	10,052.7	
	19+15.2	-4,909.4	10,487.3	

**TABLE 2
PROPOSED INSTRUMENTATION COORDINATES**

INSTRUMENT NAME	NORTHING (ft)	EASTING (ft)	ELEVATION (ft)
SM-1	-5,150.84	10,773.90	8360.00
SM-2	-5,971.85	10,447.15	8450.00
SM-3	-5,755.38	10,052.72	8600.00
VWP-1	-5,180.45	10,781.44	8248.89
VWP-2	-5,755.30	10,052.72	8358.89

- NOTES:**
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 - WASTE ROCK STOCKPILE SURFACE WILL BE GRADED TO DRAIN WATER TOWARDS THE SOUTHEAST FACE OF THE BUTTRISS.

REFERENCES:
 1. SURVEYING TOPOGRAPHY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY (M 1507814 & 2021) (2014 & 2020) BY SHAW, REID, BISHOP, & LINTZ, STAFFER GEOLOGICAL SURVEY (ACCESS# 2020071)
 2. KERSEL WASTE ROCK STOCKPILE LIMITS PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 07/25/22
 3. CLOCKWISE SYSTEM LOCAL MINE GRID

REV	DATE	DESCRIPTION	APPROVED	DESIGNED
A	08/09/2023	PRELIMINARY	MS	JA
B	08/27/2023	ISSUED FOR REVIEW	MS	JA
C	10/25/2023	ISSUED FOR REVIEW	MS	JA

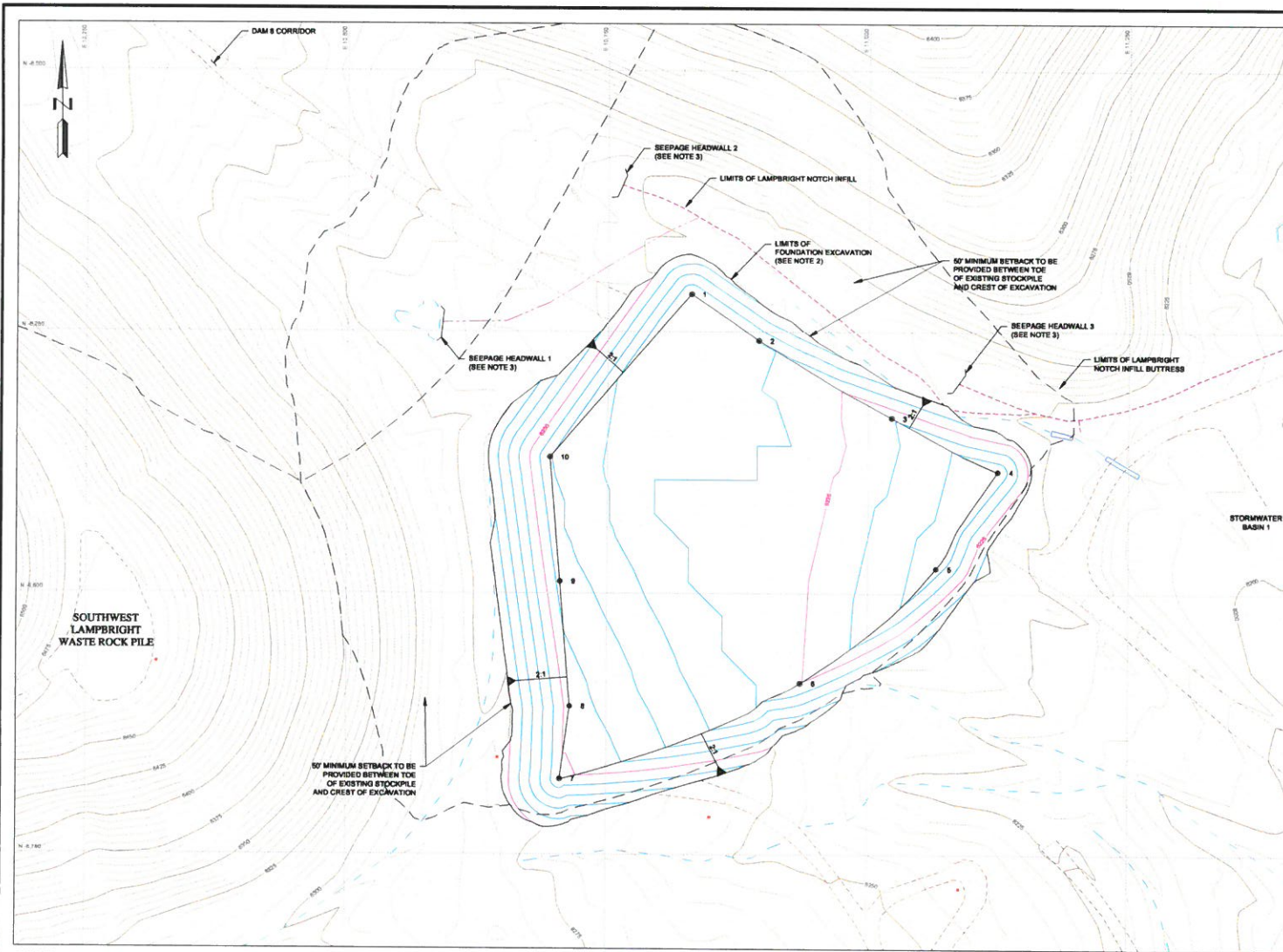
DISCLAIMER
 KNIGHT PIELSOLD AND CO. PRODUCED THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY THE HOLDER HAS ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIELSOLD AND CO.

CLIENT: **FREEPORT-MCMORAN CHINO MINES COMPANY**

Knights Pielsohd CONSULTING

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE			
TITLE: DAM EIGHT WASTE ROCK STOCKPILE GENERAL LAYOUT			
DESIGNED BY	LOCATOR	PROJECT NUMBER	DRAWING NUMBER
MS	TU101	00636.09	100
DRAWN BY	REVISION		
JA	C		

DATE PLOTTED BY: JESSICA
 PLOTTED BY: RICHARD BENDIS
 PRINTED BY: RICHARD BENDIS
 PRINT TIME: 12/20/2023 9:01 AM



LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
- PROPOSED EXCAVATION SURFACE CONTOUR AND EL. FEET
- EXISTING DRAINAGE
- EXISTING ROAD
- EXISTING POWERPOLES
- EXISTING BUILDINGS AND INFRASTRUCTURE
- SETTING OUT DATA POINT

**TABLE 3
BUTTRISS FOUNDATION
EXCAVATION
SETTING OUT DATA**

POINT #	NORTHING (ft)	EASTING (ft)	ELEVATION (ft)	DESCRIPTION
1	-8,214.2	10,829.7	8,230.2	1
2	-8,260.7	10,894.3	8,230.0	2
3	-8,332.2	11,022.2	8,220.4	3
4	-8,383.4	11,124.3	8,210.4	4
5	-8,478.8	11,085.2	8,212.3	5
6	-8,586.2	10,935.4	8,225.3	6
7	-8,678.3	10,705.1	8,280.8	7
8	-8,808.8	10,714.6	8,247.6	8
9	-8,489.3	10,704.6	8,243.9	9
10	-8,370.0	10,684.7	8,240.3	10

- NOTES:**
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 - FOUNDATION SHALL BE EXCAVATED TO (AT MINIMUM) HIGHLY WEATHERED BEDROCK OR AS APPROVED BY THE ENGINEER. FOUNDATION DEPTH WILL BE BASED ON CONDITIONS ENCOUNTERED DURING EXCAVATION. EXCAVATION SLOPES SHALL BE NO STEEPER THAN 2H:1V OR AS APPROVED BY THE ENGINEER. IF SOFT BOLTS OR SEEPAGE IS OBSERVED DURING EXCAVATION, SHALLOWER SLOPES MAY BE REQUIRED.
 - EXISTING SEEPAGE HEADWALLS TO BE BACKFILLED WITH DRAINAGE GRAVEL PRIOR TO PLACEMENT OF WASTE ROCK AND/OR BUTTRISS FILL.

REFERENCE:
 1. EXISTING TOPOGRAPHY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 10/28/18 & 2/22/19 (S&S 2018 BUREAU OF RECONSTRUCTION AND LIMITED STATE OF GEOTECHNICAL SURVEY FACTORS 2019/2021)
 2. EXISTING WASTE ROCK STOCKPILE ELEVATION PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 01/21/21
 3. COORDINATE SYSTEM: LOCAL MINE GRID



REV	DATE	DESCRIPTION	APP'D	CHK'D
A	08/09/2023	PRELIMINARY	NS	JA
B	08/27/2023	ISSUED FOR REVIEW	NS	JA
C	12/05/2023	ISSUED FOR REVIEW	NS	JA

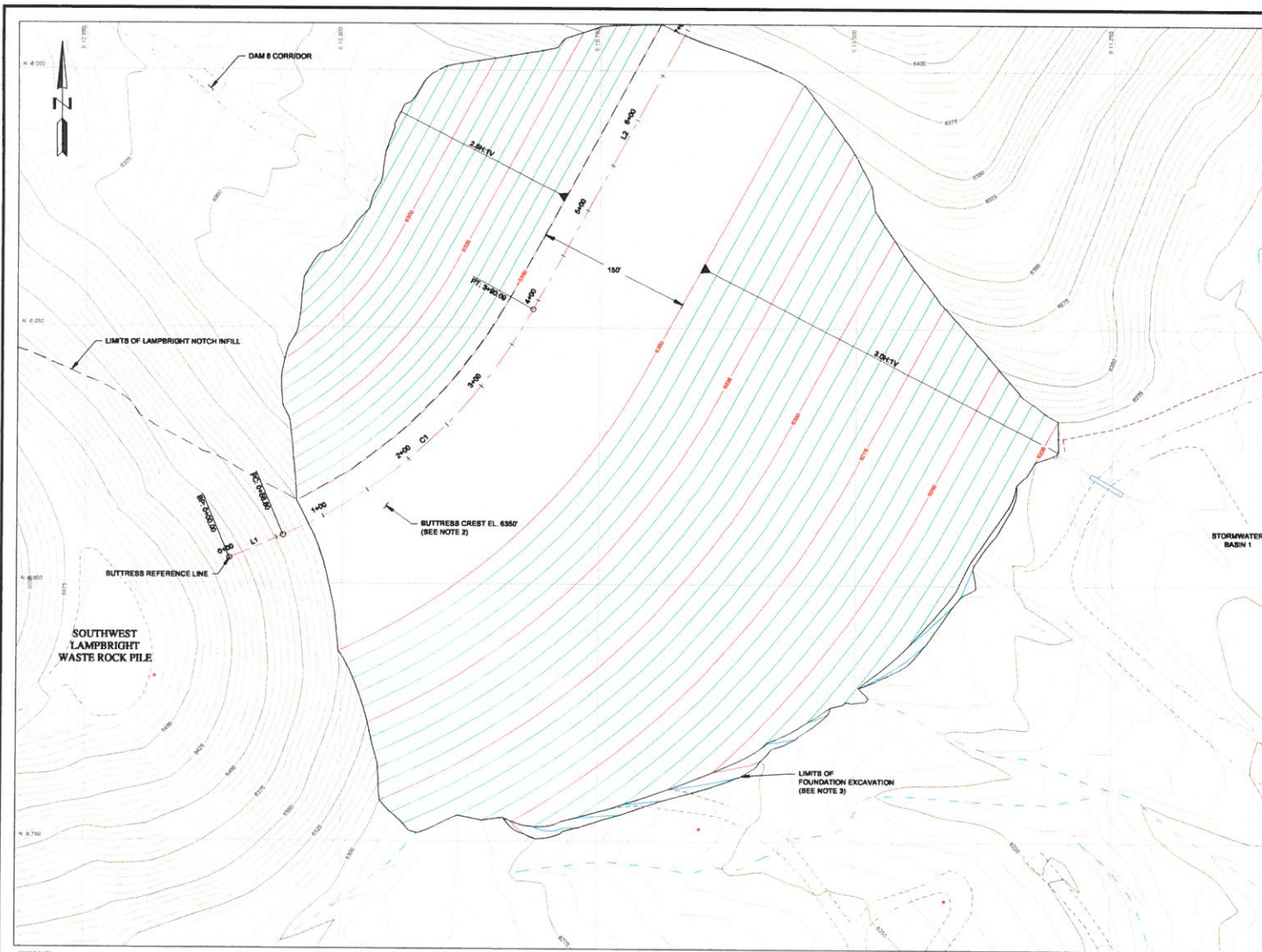
DISCLAIMER
 KNIGHT, PIÉSOLED AND CO. THROUGHOUT THE DATA SHOWN HEREON LEGAL NOTICE: BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT, PIÉSOLED AND CO.

FREEPORT-MCMORAN CHINO MINES COMPANY



PROJECT		CHINO DAM 8 WASTE ROCK STOCKPILE			
TITLE		BUTTRISS FOUNDATION EXCAVATION PLAN			
DESIGNED BY	NS	LOCATION	PROJECT NUMBER	DRAWING NUMBER	REVISION
DRAWN BY	JA	TU101	00636.09	105	C

DATE PLOTTED: 12/05/2023 9:55 AM
 DRAWING TITLE: Buttress Foundation Excavation Plan
 PRINTED BY: RICHARD BUCKLAND, PRINT TIME: 12/05/2023 9:55 AM



LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
- PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
- PROPOSED EXCAVATION SURFACE CONTOUR AND EL. FEET
- EXISTING DRAINAGE
- EXISTING ROAD
- EXISTING POWERPOLES
- EXISTING BUILDINGS AND INFRASTRUCTURE

**TABLE 4
BUTTRESS REFERENCE LINE
HORIZONTAL CONTROL DATA**

ID	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)
L1	0+00.0	-4,451.2	10,390.3	
	0+56.8	-4,428.9	10,442.5	
C1	0+56.8	-4,428.9	10,442.5	501
	1+00.1	-4,209.1	10,684.9	
L2	1+00.1	-4,209.1	10,684.9	
	1+00.8	-4,856.1	10,878.1	

- NOTES:**
- SCALE BAR MEASURES 1" ON A FULL SIZE PLOT (ANSI-D) AND 1/2" ON A HALF SIZE PLOT (ANSI-E).
 - BUTTRESS FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
 - FOUNDATION EXCAVATION TO BE BACKFILLED AND GRADED TO NATURAL GROUND FOLLOWING TOE BUTTRESS CONSTRUCTION.

REFERENCES:

- 1. EXISTING TOPOGRAPHY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 10/19/18 & 2/29/19 (DATA & 2008 BLOWER TIE, SUBSIDIARITY AND LIMITED STATE GEOLOGICAL SURVEY ACCESSORIES (2008)).
- 2. AERIAL PHOTOGRAPHIC SURVEY DATA PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 07/21/19.
- 3. COUNTY MAPS, SYSTEM LOCAL, MINE GRID.

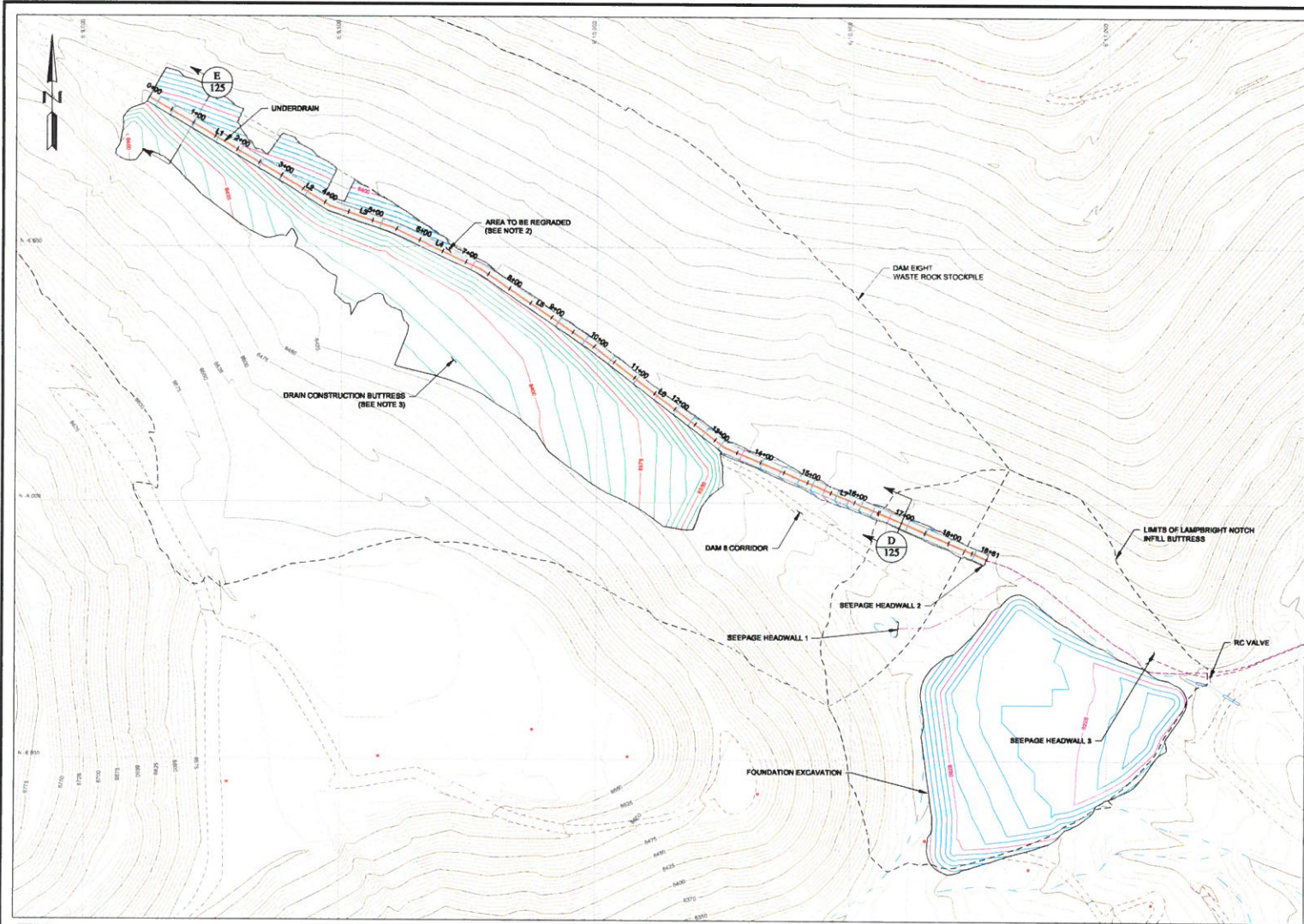
REV	DATE	DESCRIPTION	APP'D	DISCLAIMER	CHK'D
A	08/08/2023	PRELIMINARY	JB	KNIGHT, PIÉSOLED AND CO. PRODUCE(S) THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS, ANY ADAPTATION OR MODIFICATION OF THE DATA ON DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT, PIÉSOLED AND CO.	
B	09/07/2023	ISSUED FOR REVIEW	JA		
C	12/05/2023	ISSUED FOR REVIEW	JA		

FREEPORT-MCMORAN CHINO MINES COMPANY



PROJECT				
CHINO DAM 8 WASTE ROCK STOCKPILE				
TITLE				
BUTTRESS GENERAL LAYOUT				
DESIGNED BY	NO	LOCATION	PROJECT NUMBER	DRAWING NUMBER
DRAWN BY	JA	TU101	00636.09	110
				REVISION
				C

LAST REVISED BY: JACOB...
 DRAWING DATA: KnightPiésold.com/Projects/101000536/08/Design/CADD/Design/General/Chino-Dam8-Stockpile/110100636_110.dwg
 PRINTED BY: MICHAEL...
 PRINT TIME: 12/20/2023 9:52 AM



LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
- PROPOSED EXCAVATION CONTOUR AND EL. FEET
- EXISTING DRAINAGE
- EXISTING ROAD
- EXISTING POWERPOLE
- EXISTING BUILDINGS AND INFRASTRUCTURE
- PROPOSED UNDERDRAIN
- AREA TO BE REGRADED

**TABLE 5
UNDERDRAIN CENTERLINE
HORIZONTAL CONTROL DATA**

ID	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)
L1	0+00.0	-5,219.4	9,123.9	
	3+06.4	-5,365.5	9,387.1	
L2	3+06.4	-5,365.5	9,387.1	
	4+12.0	-5,420.9	9,477.1	
L3	4+12.0	-5,420.9	9,477.1	
	6+43.0	-5,463.4	9,801.5	
L4	6+43.0	-5,463.4	9,801.5	
	7+32.0	-5,544.0	9,772.9	
L5	7+32.0	-5,544.0	9,772.9	
	9+90.1	-5,603.0	9,905.6	
L6	9+90.1	-5,603.0	9,905.6	
	13+23.4	-5,890.9	10,250.3	
L7	13+23.4	-5,890.9	10,250.3	
	18+80.7	-6,108.9	10,783.3	

- NOTES:**
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 - FOUNDATION PREPARATION FOR THE UNDERDRAIN WILL CONSIST OF GRADING AND SMOOTHING THE AREAS BELOW THE UNDERDRAIN. EXCAVATION WILL BE LIMITED TO REDUCE THE RISK OF UNDERMINING THE EXISTING STOCKPILE SLOPES.
 - FOUNDATION PREPARATION FOR THE DRAIN CONSTRUCTION BUTTRESS WILL CONSIST OF LIMITED REMOVAL OF EXISTING VEGETATION. DRAIN CONSTRUCTION BUTTRESS WILL BE CONSTRUCTED FROM WASTE ROCK AND HAS NO PLACEMENT SPECIFICATIONS BUT WILL BE PLACED IN A MANNER THAT DOES NOT DISTURB CONSTRUCTION OF THE UNDERDRAIN.

REFERENCE:
 - ALL RIGHTS TEMPORARILY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 1/28/2015 & 2021 CDMA & 2020 BLVDN YTL RESPECTIVELY AND ON THE STATE OF CALIFORNIA SURVEY (SACS) 2015 (202021)
 - KUBBLE WASTE ROCK STOCKPILE LIMITS PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 07/20/15
 - COORDINATE SYSTEM LOCAL MINE GRID



REV	DATE	DESCRIPTION	APPROVED	DISCLAIMER
A	10/19/2023	ISSUED FOR INTERNAL REVIEW	MS JA	KNIGHT PIESOLD AND/OR ITS AFFILIATES, PROVIDING THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY TO THE HOLDER ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ALTERATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIESOLD AND/OR ITS AFFILIATES.
B	12/07/2023	ISSUED FOR REVIEW	MS JA	
—	—	—	—	

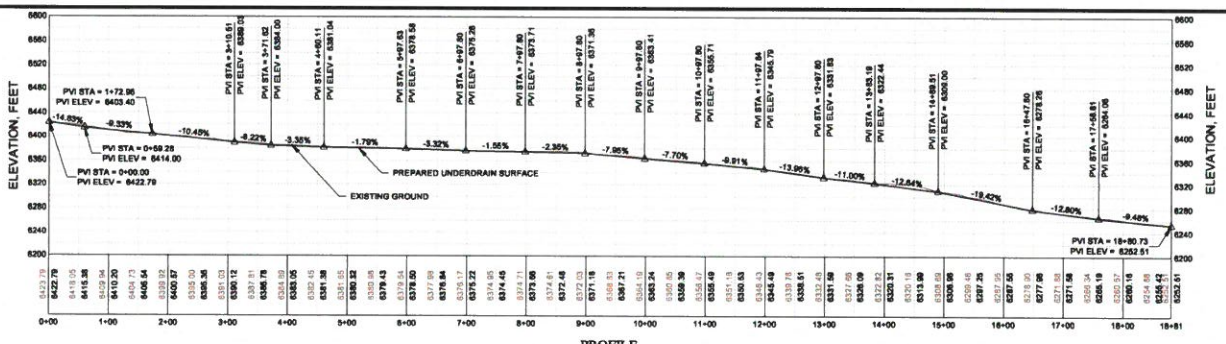
CLIENT: FREEPORT-MCMORAN CHINO MINES COMPANY

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE

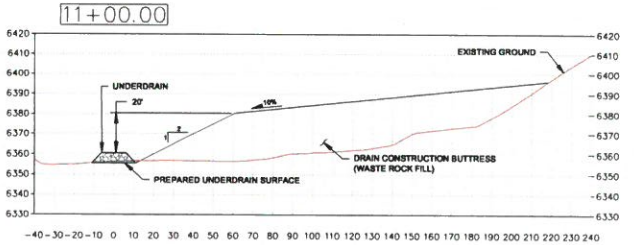
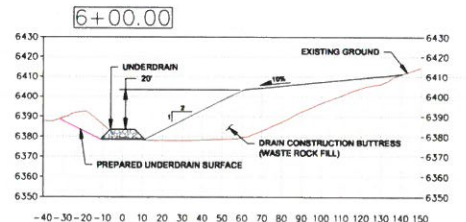
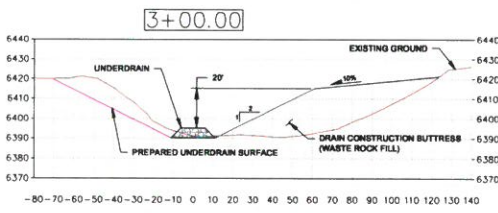


PROJECT		CHINO DAM 8 WASTE ROCK STOCKPILE	
TITLE		UNDERDRAIN PLAN	
DESIGNED BY	MS	LOCATION	TU101
DRAWN BY	JA	PROJECT NUMBER	00636.09
		DRAWING NUMBER	115
		REVISION	B

DATE PLOTTED: 12/07/2023 11:58:54 AM
 DRAWN BY: JA
 PRINTED BY: MICHAEL BECKER
 PRINT TIME: 12/07/2023 9:52 AM



PROFILE



DRAIN CONSTRUCTION BUTTRESS SECTIONS



LEGEND:
 ELEVATION OF EXISTING GROUND SURFACE AND TOP OF REGRADED GROUND SURFACE AT SPECIFIC STATION

NOTES:
 1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).

REV	DATE	DESCRIPTION	APP'D	DISCLAIMER	CLIENT
A	1/20/2023	ISSUED FOR INTERNAL REVIEW	MS	KNIGHT PIÉSOLD AND CO. PRODUCE THIS DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOLD AND CO.	FREEPORT-MCMORAN CHINO MINES COMPANY
B	1/30/2023	ISSUED FOR REVIEW	MS		

FREEPORT-MCMORAN CHINO MINES COMPANY



PROJECT				
CHINO DAM 8 WASTE ROCK STOCKPILE				
TITLE				
UNDERDRAIN PROFILE AND DRAIN BUTTRESS SECTIONS				
DESIGNED BY	MS	LOCATION	PROJECT NUMBER	DRAWING NUMBER
DRAWN BY	JA	TU101	00636.09	116
				REVISION
				B

C:\Users\jmc\OneDrive - Knight Piésold and Co.\Desktop\CHINO DAM 8 WASTE ROCK STOCKPILE\00636.09\Drawings\CADD\Design\chinosd\chinosd\chinosd\TU101\00636.09_11.dwg
 PRINTED BY: RICHARD BENDAL PRINT TIME: 12/20/2023 8:02 AM

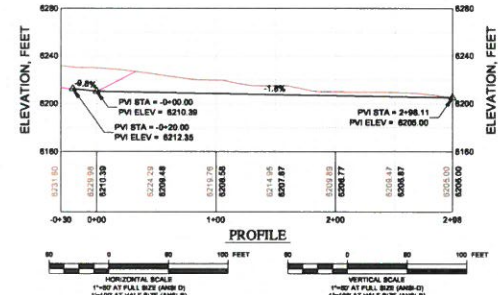
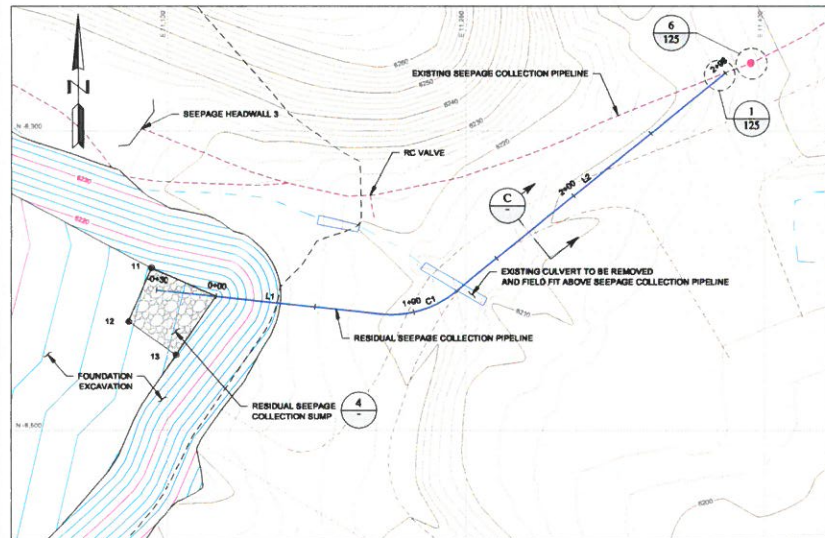
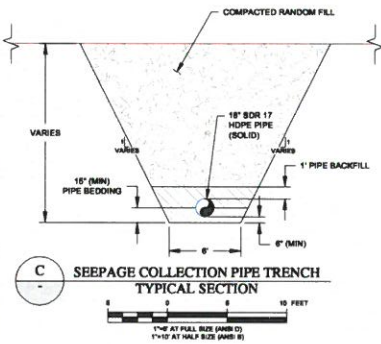


TABLE 6
RESIDUAL SEEPAGE COLLECTION PIPELINE HORIZONTAL CONTROL DATA

ID	STATION	NORTHING (ft)	EASTING (ft)	RADIUS (ft)
L1	0+30.00	-6380.18	11094.43	
	0+83.69	-6392.20	11207.49	
C1	0+83.69	-6392.20	11207.49	50.0
	1+23.11	-6381.29	11244.31	
L2	1+23.11	-6381.29	11244.31	
	2+98.11	-6270.91	11389.11	

TABLE 7
RESIDUAL SEEPAGE COLLECTION SUMP SETTING OUT DATA

POINT #	NORTHING (ft)	EASTING (ft)	ELEVATION (ft)	DESCRIPTION
11	-6399.37	11,091.74	0.00	11
12	-6398.01	11,080.29	0.00	12
13	-6412.49	11,104.16	0.00	13



- NOTES:**
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A STABLE EXCAVATION FOR THE RESIDUAL SEEPAGE COLLECTION PIPELINE CONSTRUCTION.



REV	DATE	DESCRIPTION	APP'D	CADD
A	1/01/2023	ISSUED FOR INTERNAL REVIEW	JB	JA
B	1/20/2023	ISSUED FOR REVIEW	JB	JA

DISCLAIMER

KNIGHT PIÉSOLD AND CO. PROVIDES THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT WARRANT TO THE CLIENT ANY RESULTS OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOLD AND CO.

CLIENT: **FREEPORT-MCMORAN CHINO MINES COMPANY**

PROJECT: **CHINO DAM 8 WASTE ROCK STOCKPILE**

RESIDUAL SEEPAGE COLLECTION SUMP PLAN, PROFILE, DETAIL, AND SECTION

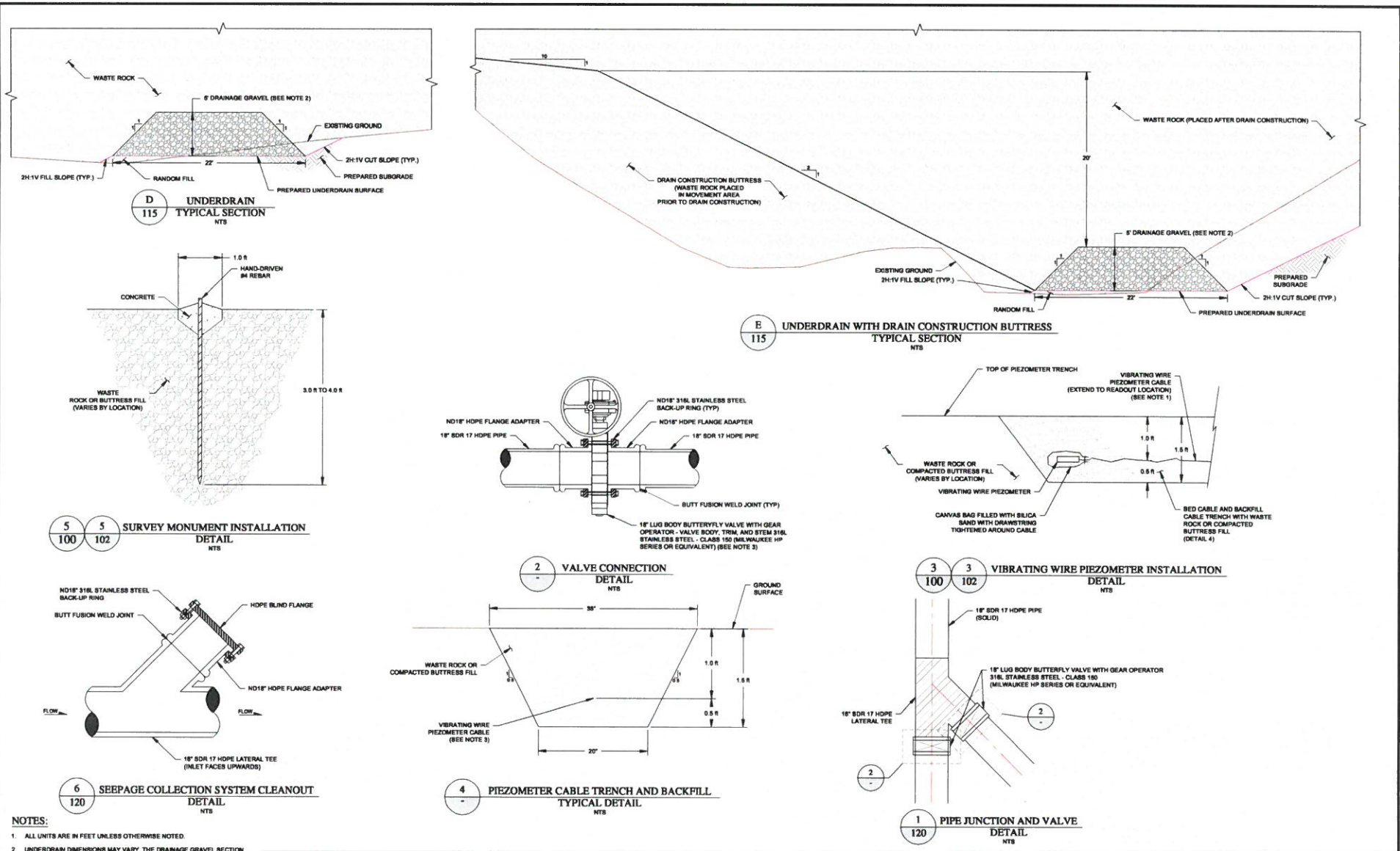
DESIGNED BY: JB
 DRAWN BY: JA

TU101
 00636.09

DRAWING NUMBER: 120
 REVISION: B

Knicht Piésold CONSULTING

LAST DRAWN BY: JRENZDA
 PRINTED BY: RICHARD BENJAMIN
 PRINT TIME: 1/20/2023 3:03 AM
 FILE: C:\Users\jrenzda\OneDrive\Documents\CHINO DAM 8 Waste Rock Stockpile\TU101-00636.09.dwg



- NOTES:**
- ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.
 - UNDERDRAIN DIMENSIONS MAY VARY. THE DRAINAGE GRAVEL SECTION MUST BE APPROVED BY THE ENGINEER IN THE FIELD TO VERIFY MINIMUM CROSS SECTIONAL AREA OF 85 SQUARE FEET.
 - SEAT MATERIAL FOR BUTTERFLY VALVE SHALL BE FLUOROCARBON TYPE FPM (VITON) OR EQUIVALENT. SEAT SHALL BE APPROPRIATE FOR PLS SOLUTION (PH: 1.5-3.0) WITH A HIGH CONCENTRATION IN SULFURIC ACID.
 - MINIMUM OF 10 PERCENT BLACK TO BE INSTALLED BY SERPENTINING THE CABLES ALONG THE ALIGNMENT OF THE TRENCH.

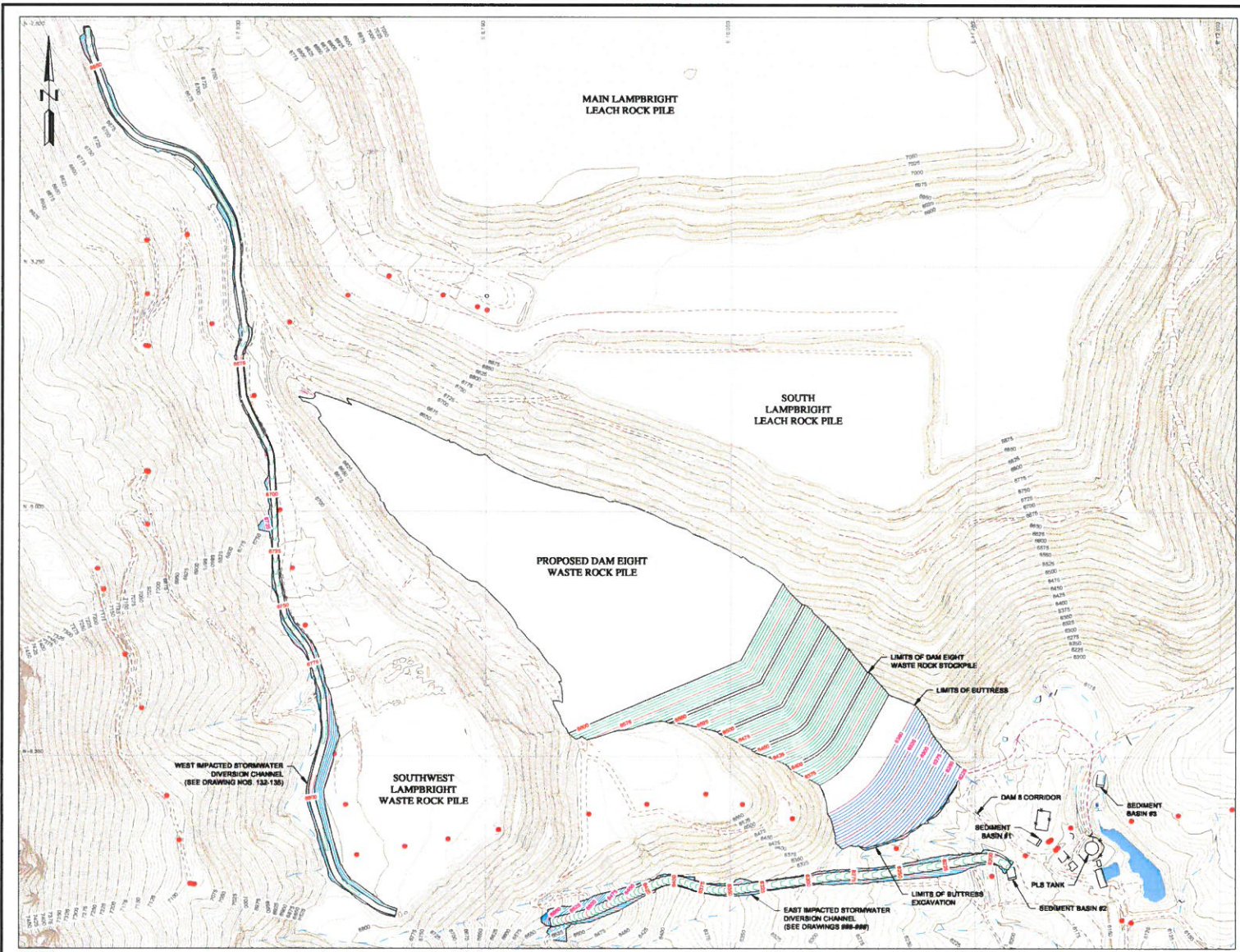
REV	DATE	DESCRIPTION	APPROVED	DESIGNED BY	CLIENT
A	10/13/2023	ISSUED FOR INTERNAL REVIEW	CHAD		
B	1/30/2024	ISSUED FOR REVIEW	JA		

FREEPORT-MCMORAN CHINO MINES COMPANY

KNIGHT PIESOLD CONSULTING

PROJECT		CHINO DAM 8 WASTE ROCK STOCKPILE	
TITLE		TYPICAL SECTIONS AND DETAILS	
DESIGNED BY	MS	LOCATION	TU101
DRAWN BY	JA	PROJECT NUMBER	00636.09
		DRAWING NUMBER	125
		REVISION	B

LAST MODIFIED BY: JREINZKA
 DATE: 10/13/2023 11:03:00 AM
 PRINTED BY: MICHAEL BENDAK
 PRINT TIME: 12/20/2023 8:03 AM



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
 - REGRADED GROUND SURFACE CONTOUR AND EL. FEET
 - PROPOSED BUTTRISS SURFACE CONTOUR AND EL. FEET
 - EXCAVATED GROUND SURFACE CONTOUR AND EL. FEET
 - EXISTING DRAINAGE
 - EXISTING ROAD
 - EXISTING POWERPOLES
 - EXISTING BUILDINGS AND INFRASTRUCTURE



- NOTES:**
1. SCALE BAR MEASURES 1" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 2. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.

DATE PLOTTED: 11/11/2023 10:00 AM
 PLOT SCALE: 1"=200'
 PLOT ORIENTATION: N
 PLOT SIZE: 11.0" x 17.0"

REV	DATE	DESCRIPTION	APP'D	CADD
A	10/18/2023	ISSUED FOR INTERNAL REVIEW	JB	JA
B	1/9/2024	ISSUED FOR REVIEW	JB	JA

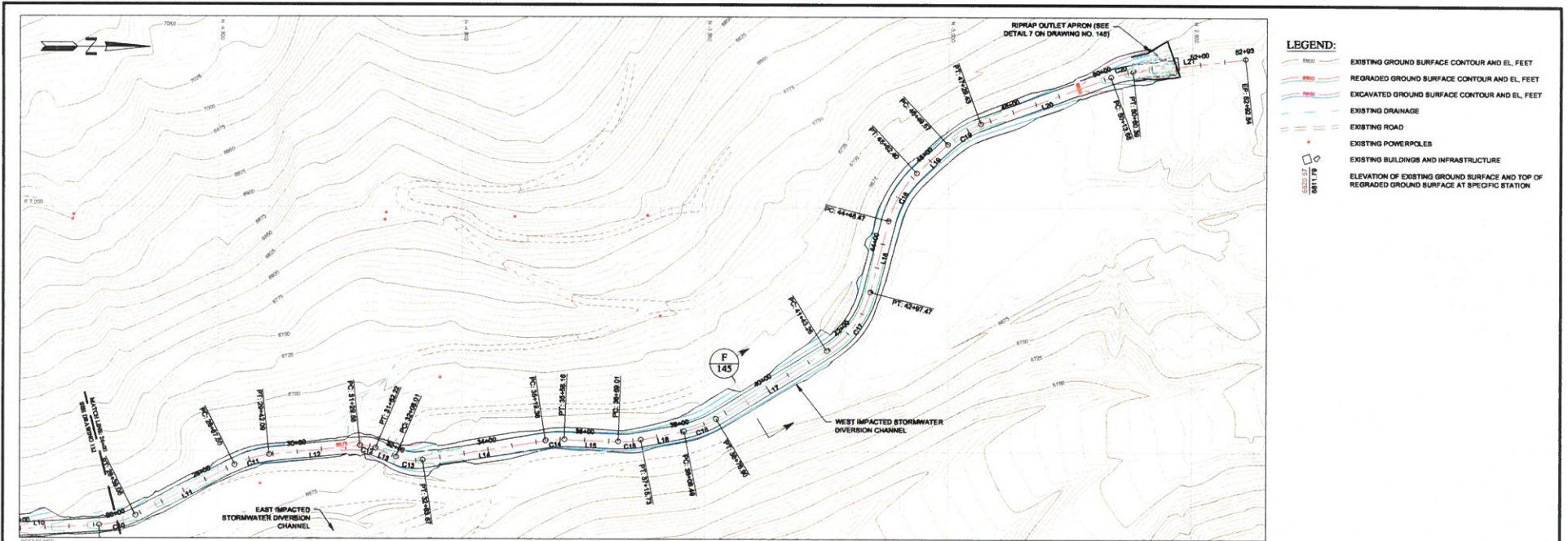
DISCLAIMER
 KNIGHT PIELSOLD AND CO. PRODUCED THE DATA SHOWN HEREON USING BEST AVAILABLE DATA AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS, AND ADAPTATION OR MODIFICATION OF THE DATA ON DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIELSOLD AND CO.

CLIENT: **FREEMPORT-MCMORAN CHINO MINES COMPANY**

Knight Pielsoold CONSULTING

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE	
TITLE: IMPACTED STORMWATER DIVERSION CHANNEL PLAN	
DESIGNED BY: JB	LOCATION: TU101
DRAWN BY: JA	PROJECT NUMBER: 00636.09
	DRAWING NUMBER: 130
	REVISION: B

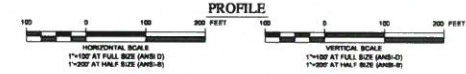
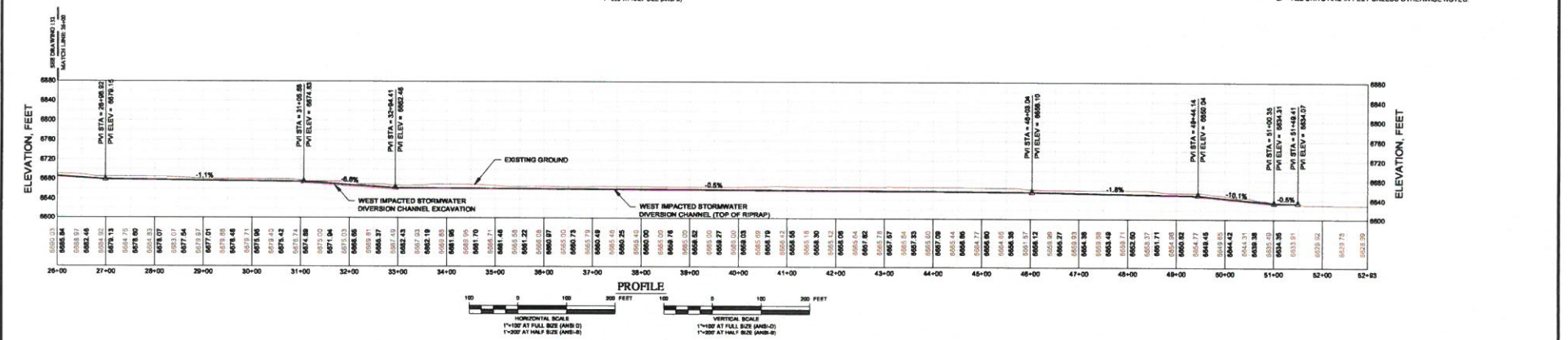
LAST SAVED BY: RMB/DA
 FILED IN: C:\Users\RMB\OneDrive\Documents\Projects\CHINO DAM 8 WASTE ROCK STOCKPILE\CHINO DAM 8 WASTE ROCK STOCKPILE\CHINO DAM 8 WASTE ROCK STOCKPILE.dwg
 PRINTED BY: RICHARD BENAVIDES
 PRINT TIME: 12/20/2023 3:03 AM



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
 - REGRADED GROUND SURFACE CONTOUR AND EL. FEET
 - EXCAVATED GROUND SURFACE CONTOUR AND EL. FEET
 - EXISTING DRAINAGE
 - EXISTING ROAD
 - EXISTING POWERPOLES
 - EXISTING BUILDINGS AND INFRASTRUCTURE
 - ELEVATION OF EXISTING GROUND SURFACE AND TOP OF REGRADED GROUND SURFACE AT SPECIFIC STATION



- NOTES:**
1. SCALE BAR MEASURES 1" ON A FULL SIZE PLOT (ANSI-B) AND 1/2" ON A HALF SIZE PLOT (ANSI-S)
 2. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.



LAST SAID BY: WENKHA
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE
 DRAWING: WEST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE (SHEET 2 OF 2)
 DATE: 10/11/2023
 TIME: 10:00:00 AM

REV	DATE	DESCRIPTION	APP'D
A	10/13/2023	ISSUED FOR INTERNAL REVIEW	JA
B	10/20/2023	ISSUED FOR REVIEW	JA

DISCLAIMER

KNIGHT PIÉSOŁ AND COL PRODUCE THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT WARRANT TO THE CLIENT ANY RESULTS TO SUCH TECHNICAL INFORMATION OR METHODS, ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOŁ AND COL.

CLIENT: **FREEMPORT-MCMORAN CHINO MINES COMPANY**

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE			
TITLE: WEST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE (SHEET 2 OF 2)			
DESIGNED BY	LOCATOR	PROJECT NUMBER	DRAWING NUMBER
NS	TU101	00636.09	133
DRAWN BY	DATE	REVISION	
JA		B	

LAST SAVED BY: RENEZKA
 FILED AT: C:\Users\renezka\Documents\15106366\FREEMPT\CD\Drawings\csm\csm-w-01-horiz-control.dwg(15106366_15106366.dwg)
 PRINTED BY: RICHARD BENCA, PRINT TIME: 3/20/2023 10:10 AM

**TABLE 8
WEST IMPACTED STORMWATER DIVERSION
CHANNEL
HORIZONTAL CONTROL DATA**

ID	STATION	NORTHING	EASTING	RADIUS
L1	0+00.00	-7047.05	8293.37	200.0
	0+58.55	-7030.98	8237.19	
C1	0+58.55	-7030.98	8237.19	
	1+18.53	-7006.40	8182.99	
L2	1+18.53	-7006.40	8182.99	
	2+80.28	-6816.11	8048.16	
C2	2+80.28	-6816.11	8048.16	
	4+17.75	-6808.15	7987.42	
L3	4+17.75	-6808.15	7987.42	
	7+53.29	-6487.44	7868.78	
C3	7+53.29	-6487.44	7868.78	
	8+57.43	-6384.87	7806.86	
L4	8+57.43	-6384.87	7806.86	
	10+77.00	-6172.53	7628.52	
C4	10+77.00	-6172.53	7628.52	
	11+37.28	-6112.82	7529.45	
L5	11+37.28	-6112.82	7529.45	
	12+98.84	-5863.07	7319.45	
C5	12+98.84	-5863.07	7319.45	
	13+44.30	-5807.09	7210.50	
L6	13+44.30	-5807.09	7210.50	
	15+32.82	-5727.91	7161.58	
C6	15+32.82	-5727.91	7161.58	
	15+98.71	-5670.29	7120.52	
L7	15+98.71	-5670.29	7120.52	
	17+03.88	-5688.18	7155.32	
C7	17+03.88	-5688.18	7155.32	
	17+80.82	-5614.92	7119.86	
L8	17+80.82	-5614.92	7119.86	
	19+40.08	-5368.75	7082.77	
C8	19+40.08	-5368.75	7082.77	
	19+95.44	-5319.76	7077.84	
L9	19+95.44	-5319.76	7077.84	
	22+33.01	-5072.30	7070.80	
C9	22+33.01	-5072.30	7070.80	
	22+50.88	-5064.45	7069.84	
L10	22+50.88	-5064.45	7069.84	
	25+41.37	-4744.53	7052.83	
C10	25+41.37	-4744.53	7052.83	
	25+39.05	-4698.88	7032.70	
L11	25+39.05	-4698.88	7032.70	
	28+87.50	-4468.57	7028.71	

**TABLE 8
WEST IMPACTED STORMWATER DIVERSION
CHANNEL
HORIZONTAL CONTROL DATA**

ID	STATION	NORTHING	EASTING	RADIUS
C11	28+87.50	-4468.57	7028.71	200.0
	29+42.09	-4395.43	7007.78	
L12	29+42.09	-4395.43	7007.78	
	31+29.58	-4206.87	7009.11	
C12	31+29.58	-4206.87	7009.11	
	31+82.22	-4176.83	7002.84	
L13	31+82.22	-4176.83	7002.84	
	32+06.01	-4134.75	7011.75	
C13	32+06.01	-4134.75	7011.75	
	32+83.87	-4080.20	7018.40	
L14	32+83.87	-4080.20	7018.40	
	35+19.38	-3827.85	7078.40	
C14	35+19.38	-3827.85	7078.40	
	35+58.18	-3788.99	7078.07	
L15	35+58.18	-3788.99	7078.07	
	36+89.01	-3678.22	7080.16	
C15	36+89.01	-3678.22	7080.16	
	37+15.73	-3631.78	7078.44	
L16	37+15.73	-3631.78	7078.44	
	38+06.49	-3542.75	7068.70	
C16	38+06.49	-3542.75	7068.70	
	38+78.80	-3477.51	7033.19	
L17	38+78.80	-3477.51	7033.19	
	41+43.26	-3260.26	7294.24	
C17	41+43.26	-3260.26	7294.24	
	42+97.47	-3180.86	7173.28	
L18	42+97.47	-3180.86	7173.28	
	44+48.47	-3123.36	7027.01	
C18	44+48.47	-3123.36	7027.01	
	45+82.40	-3065.97	6930.36	
L19	45+82.40	-3065.97	6930.36	
	48+49.87	-3002.20	6870.84	
C19	48+49.87	-3002.20	6870.84	
	47+29.43	-2934.59	6829.44	
L20	47+29.43	-2934.59	6829.44	
	50+13.88	-2867.85	6731.74	
C20	50+13.88	-2867.85	6731.74	
	50+60.39	-2822.32	6720.85	
L21	50+60.39	-2822.32	6720.85	
	52+92.84	-2291.47	6683.73	

REV	DATE	DESCRIPTION	APP'D
A	1/9/2023	ISSUED FOR INTERNAL REVIEW	RE
B	1/30/2023	ISSUED FOR REVIEW	JA

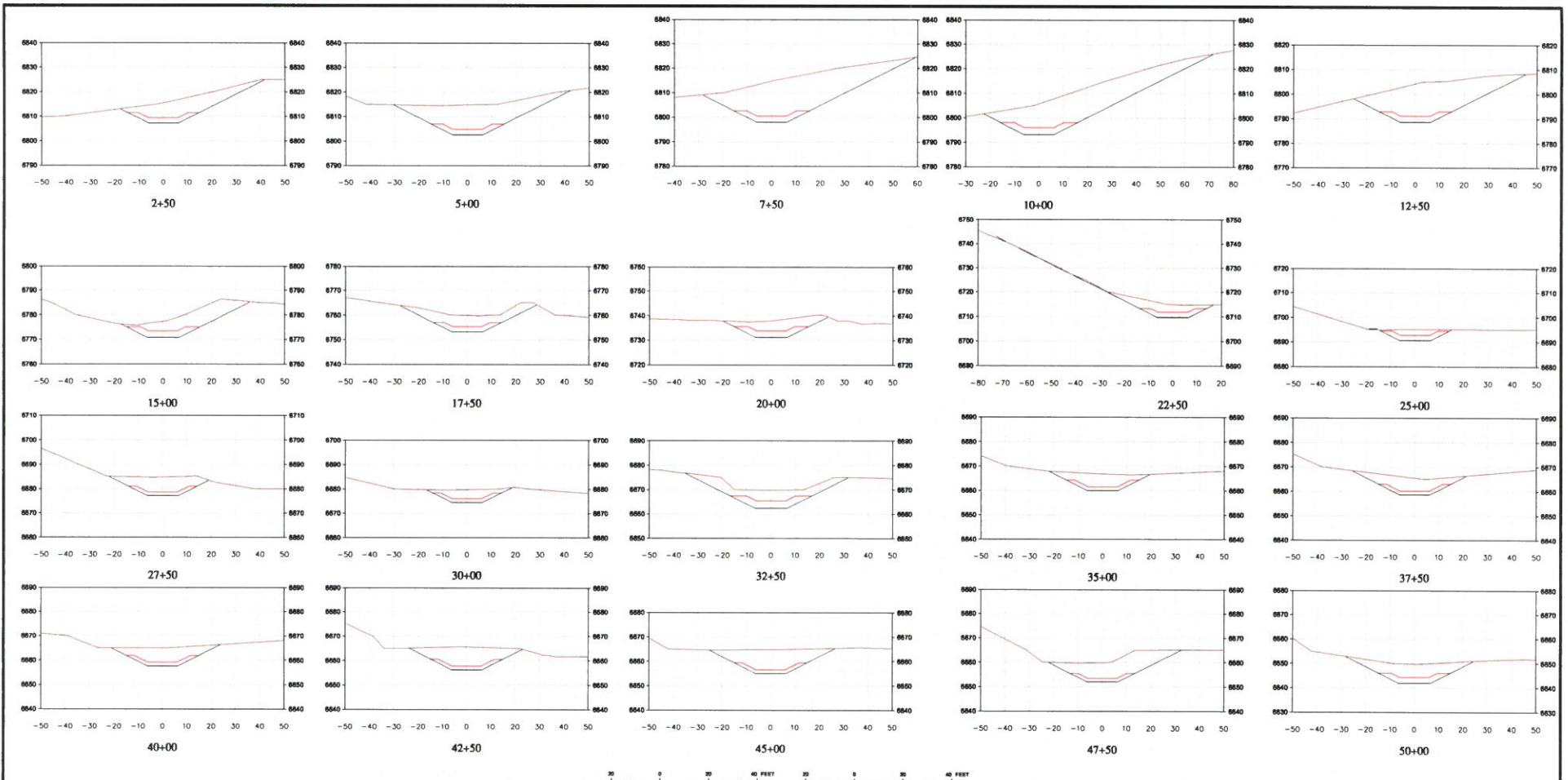
DISCLAIMER
 KNIGHT PIÉSOLD AND ITS CONSULTANTS AND/OR SUBCONSULTANTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE DATA SHOWN HEREON UNLESS BOTH TECHNICAL INFORMATION AND METHODS, RECEIPT OF THIS DRAWING DOES NOT IMPLY TO THE RECIPIENT ANY LIABILITY FOR SUCH TECHNICAL INFORMATION OR METHODS, ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOLD AND ITS CONSULTANTS.

CLIENT: **FREEMPT-MCMORAN CHINO MINES COMPANY**



PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE			
TITLE: WEST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA			
DESIGNED BY	IN CHARGE	PROJECT NUMBER	DATE
RE	JA	00636.09	134
DRAWN BY	CHECKED	DATE	REVISION
RE	JA	TU101	B

LAST DRAWN BY: REBENZA
 CHECKED BY: JACOBSON
 PRINTED BY: RICHARD BENKA
 DATE: 11/11/2023 10:10 AM
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE
 DRAWING: WEST IMPACTED STORMWATER DIVERSION CHANNEL
 SHEET: 135



LEGEND:

- EXISTING GROUND SURFACE PROFILE
- DIVERSION CHANNEL EXCAVATION SURFACE PROFILE
- TOP OF RIPRAP SURFACE PROFILE

NOTES:

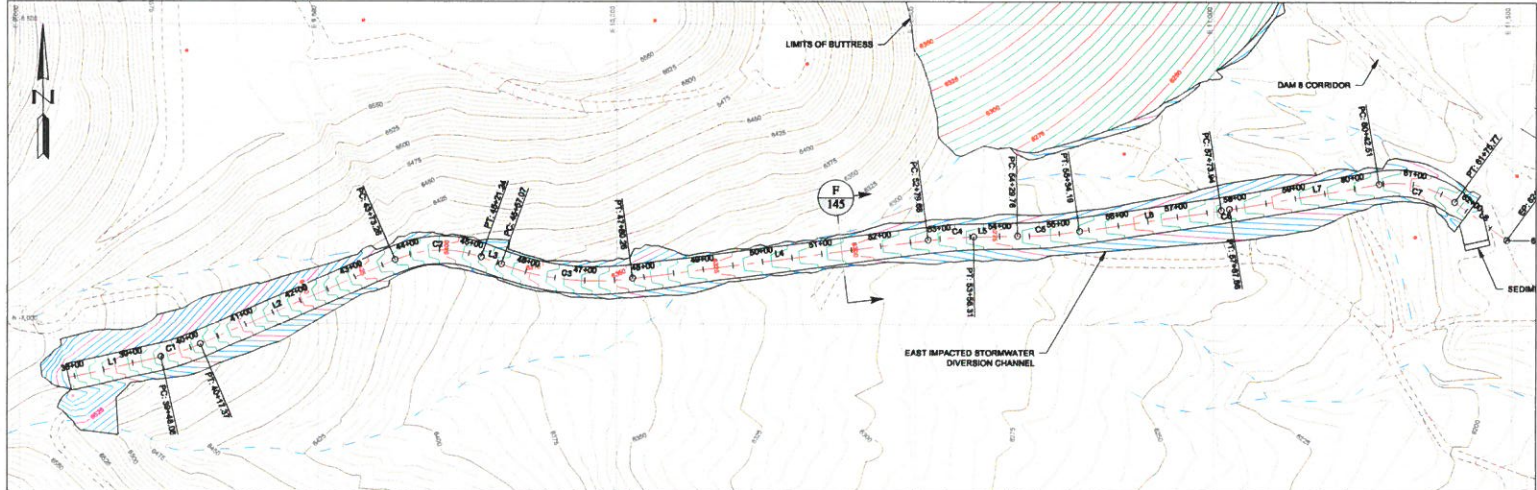
1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
2. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION MUST BE REMOVED AND REPLACED WITH COMPACTED RANDOM FILL AS REQUIRED BY THE ENGINEER.
4. ALL FILL SHALL BE PLACED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

REV	DATE	DESCRIPTION	APP'D	CHECKED
A	10/19/2023	ISSUED FOR INTERNAL REVIEW	REBENZA	JACOBSON
B	11/09/2023	ISSUED FOR REVIEW	REBENZA	JACOBSON

DISCLAIMER
 KNIGHT PIÉSOLED AND ITS CONSULTANTS AND/OR PROVIDERS OF THE DATA SHOWN HEREON HEREOF USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY TO THE HOLDER ANY LIABILITY TO SUCH TECHNICAL INFORMATION OR METHODS AND ADAPTATION OR MODIFICATION OF THE DATA ON DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOLED AND ITS CONSULTANTS.

CLIENT: **FREEMPORT-MCMORAN CHINO MINES COMPANY**

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE	
TITLE: WEST IMPACTED STORMWATER DIVERSION CHANNEL	
SECTIONS	
DESIGNED BY: REBENZA	LOCATION: TU101
DRAWN BY: JACOBSON	PROJECT NUMBER: 00638.09
CHECKED BY: JACOBSON	DRAWING NUMBER: 135
REVISION: B	

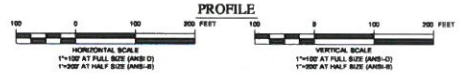
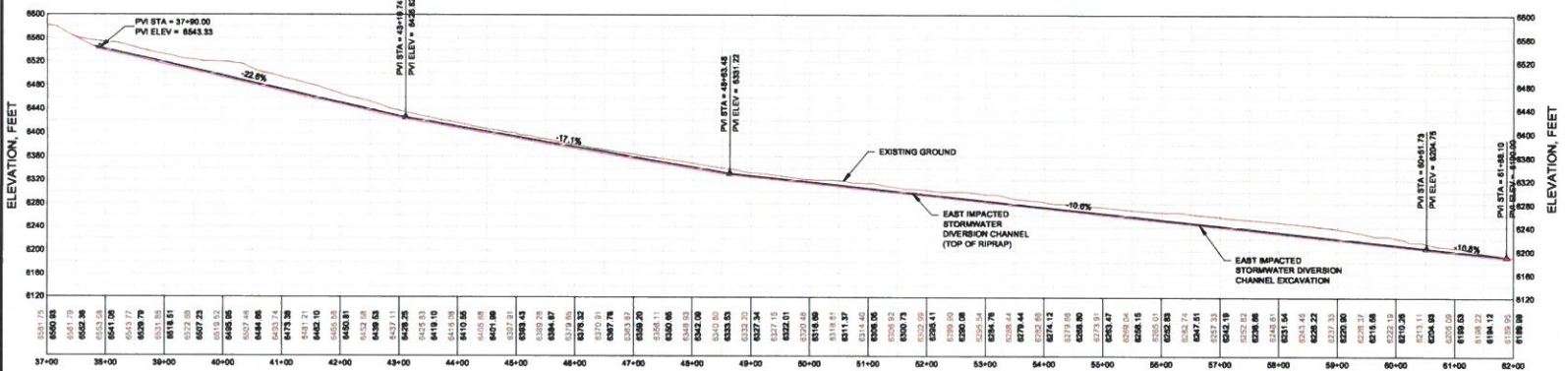


- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
 - PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
 - PROPOSED EXCAVATION SURFACE CONTOUR AND EL. FEET
 - EXISTING DRAINAGE
 - EXISTING ROAD
 - EXISTING POWERPOLES
 - EXISTING BUILDINGS AND INFRASTRUCTURE
 - ELEVATION OF EXISTING GROUND SURFACE AND TOP OF REGRADED GROUND SURFACE AT SPECIFIC STATION

NOT TO SCALE
 EXISTING TOPOGRAPHY PROVIDED BY THE FORT MCMORAN CHINO MINES COMPANY ON
 10/11/13 AT 2:00 PM FOR A 200' SURVEY. PROPOSED PVI AND UNIFIED STAIRS DATA
 SURVEY (AS PER 10/11/13)
 COORDINATE SYSTEM: LOCAL STATE GRID



- NOTES:**
1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-B) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
 2. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.



LAST SAVE BY: JMB/2013
 LAST SAVE DATE: 10/11/13 10:00 AM
 PRINTED BY: JMB/2013 10:00 AM
 PRINT TIME: 12/20/2013 10:44 AM

REV	DATE	DESCRIPTION	APP'D	CHK'D	DISCLAIMER
A	10/13/2013	ISSUED FOR INTERNAL REVIEW	JM	JA	KNIGHT PIESOLD AND CO. PROVIDES THE DATA SHOWN HEREON (INCLUDING BOTH TECHNICAL INFORMATION AND METHODS) RECEIPT OF THIS DRAWING DOES NOT CONSTITUTE AN ENDORSEMENT AND DOES NOT IMPLY ACCEPTANCE OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIESOLD AND CO.
B	12/20/2013	ISSUED FOR REVIEW	JM	JA	

PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE

TITLE: EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE

DESIGNED BY: JMB
 CHECKED BY: JA

DATE: TU101
 PROJECT NUMBER: 00636.09
 DRAWING NUMBER: 136
 REVISION: B

Knicht Piesold CONSULTING

PROJECT	CHINO DAM 8 WASTE ROCK STOCKPILE
TITLE	EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE
DESIGNED BY	JMB
CHECKED BY	JA
DATE	TU101
PROJECT NUMBER	00636.09
DRAWING NUMBER	136
REVISION	B

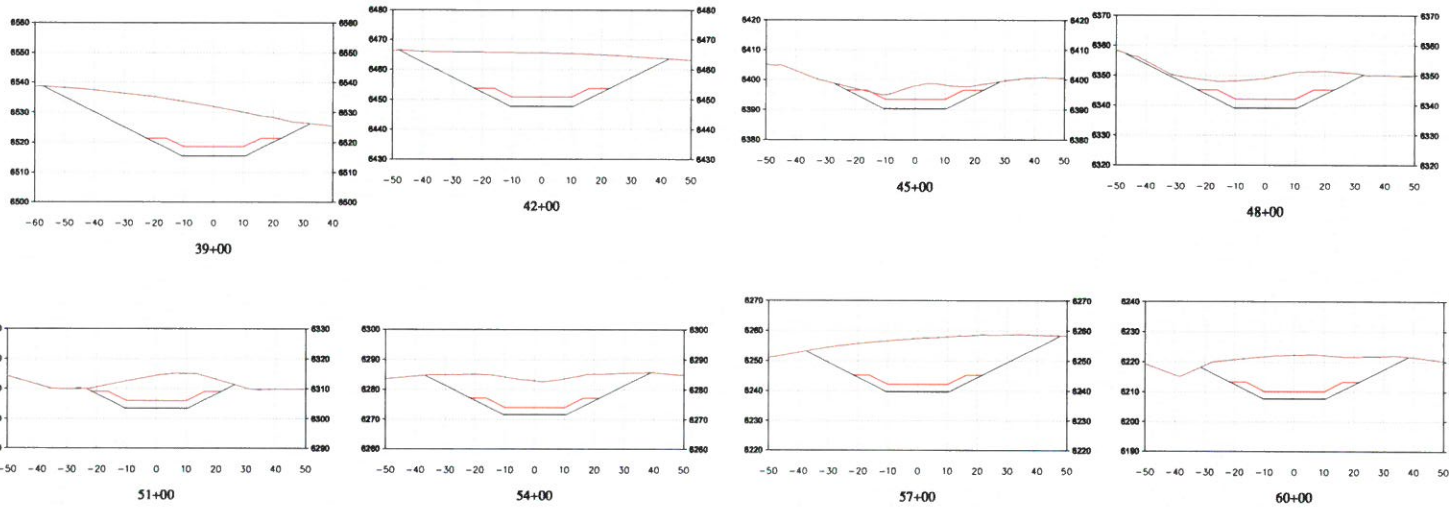
ALL DRAWING INFORMATION IS THE PROPERTY OF KNIGHT PIÉSOLED CONSULTING. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF KNIGHT PIÉSOLED CONSULTING IS STRICTLY PROHIBITED. PRINTED BY: RICHARD BENJAL, PRINT TIME: 12/20/2023 8:04 AM

TABLE 9
EAST IMPACTED STORMWATER DIVERSION
CHANNEL
HORIZONTAL CONTROL DATA

ID	STATION	NORTHING	EASTING	RADIUS
L1	37+06.81	-7032.84	8076.80	
	38+48.06	-7057.02	8235.78	
C1	38+48.06	-7057.02	8235.78	356.1
	40+17.37	-7035.48	8301.52	
L2	40+17.37	-7035.48	8301.52	
	43+73.26	-6893.21	8827.73	
C2	43+73.26	-6893.21	8827.73	196.0
	45+21.24	-6888.37	8772.14	
L3	45+21.24	-6888.37	8772.14	
	46+67.07	-6900.47	8603.87	
C3	46+67.07	-6900.47	8603.87	470.1
	47+80.26	-6824.06	10025.70	
L4	47+80.26	-6824.06	10025.70	
	52+79.68	-6859.07	10520.88	
C4	52+79.68	-6859.07	10520.88	871.9
	53+08.31	-6853.44	10597.26	
L5	53+08.31	-6853.44	10597.26	
	54+29.76	-6852.24	10670.70	
C5	54+29.76	-6852.24	10670.70	806.6
	55+34.19	-6843.77	10774.71	
L6	55+34.19	-6843.77	10774.71	
	57+73.94	-6808.91	11011.92	
C6	57+73.94	-6808.91	11011.92	812.2
	57+87.86	-6806.73	11028.67	
L7	57+87.86	-6806.73	11028.67	
	60+42.61	-6763.96	11276.70	
C7	60+42.61	-6763.96	11276.70	186.9
	61+76.77	-6793.83	11403.01	
L8	61+76.77	-6793.83	11403.01	
	62+63.82	-6867.27	11490.34	

REV	DATE	DESCRIPTION	APPROVED	DISCLAIMER	CLIENT	PROJECT																						
A	1/11/2023	ISSUED FOR INTERNAL REVIEW	<table border="1"> <tr> <td>APPD</td> <td>CAED</td> </tr> <tr> <td>RB</td> <td>JA</td> </tr> <tr> <td>RB</td> <td>JA</td> </tr> </table>	APPD	CAED	RB	JA	RB	JA	<small>KNIGHT PIÉSOLED AND CO. PRODUCED THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA ON DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOLED AND CO.</small>	FREEPORT-MCMORAN CHINO MINES COMPANY	CHINO DAM 8 WASTE ROCK STOCKPILE																
APPD	CAED																											
RB	JA																											
RB	JA																											
B	1/30/2023	ISSUED FOR REVIEW	<table border="1"> <tr> <td>APPD</td> <td>CAED</td> </tr> <tr> <td>RB</td> <td>JA</td> </tr> <tr> <td>RB</td> <td>JA</td> </tr> </table>	APPD	CAED	RB	JA	RB	JA	<table border="1"> <tr> <td colspan="2">TITLE</td> <td colspan="4">EAST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA</td> </tr> <tr> <td>DESIGNED BY</td> <td>RB</td> <td>LOCATION</td> <td>PROJECT NUMBER</td> <td>DRAWING NUMBER</td> <td>REVISION</td> </tr> <tr> <td>DRAWN BY</td> <td>JA</td> <td>TU101</td> <td>00636.09</td> <td>137</td> <td>B</td> </tr> </table>	TITLE		EAST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA				DESIGNED BY	RB	LOCATION	PROJECT NUMBER	DRAWING NUMBER	REVISION	DRAWN BY	JA	TU101	00636.09	137	B
APPD	CAED																											
RB	JA																											
RB	JA																											
TITLE		EAST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA																										
DESIGNED BY	RB	LOCATION	PROJECT NUMBER	DRAWING NUMBER	REVISION																							
DRAWN BY	JA	TU101	00636.09	137	B																							





LEGEND:

- EXISTING GROUND SURFACE PROFILE
- DIVERSION CHANNEL EXCAVATION SURFACE PROFILE
- TOP OF RIPRAP SURFACE PROFILE

NOTES:

1. SCALE BAR MEASURES 2" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-E).
2. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.
3. ALL UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION MUST BE REMOVED AND REPLACED WITH COMPACTED RANDOM FILL AS REQUIRED BY THE ENGINEER.
4. ALL FILL SHALL BE PLACED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

REV	DATE	DESCRIPTION	APPROVED	DATE
A	10/13/2023	REQUIRED FOR INTERNAL REVIEW	MS	JA
B	12/02/2023	REQUIRED FOR REVIEW	MS	JA

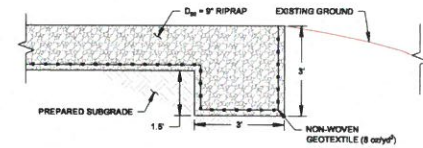
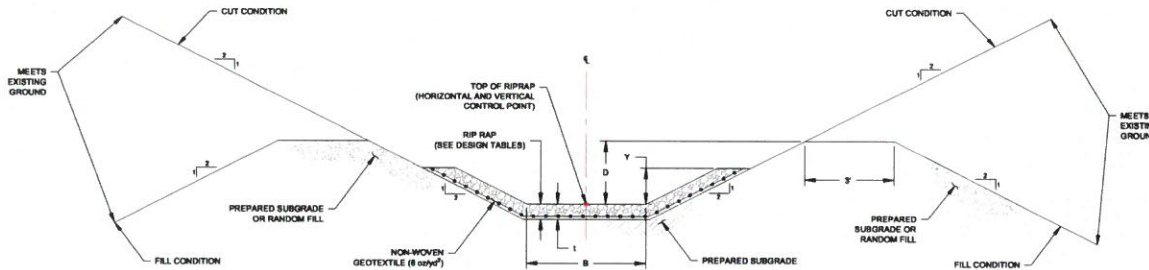
DISCLAIMER
 KNIGHT PIESOLD AND CO. PROVIDES THE DATA SHOWN HEREON UNDER BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY THE RECEIPT OF ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIESOLD AND CO.

CLIENT
 FREEPORT-MCMORAN CHINO MINES COMPANY

KNIGHT PIESOLD CONSULTING

PROJECT CHINO DAM 8 WASTE ROCK STOCKPILE			
TITLE EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE			
DESIGNED BY MS	DRAWN BY JA	PROJECT NUMBER TU101 00636.09	DRAWING NUMBER 136
		REVISION B	

LAST SAVED BY: WBS/MS/CA
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE
 DRAWING: EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE
 PRINTED BY: MICHAEL BECKER, PRINT TIME: 12/20/2023 8:04 AM



F
132
F
133
F
136
**DIVERSION CHANNEL
TYPICAL CROSS SECTION**
 NTS

7
133
**RIPRAP CUTOFF TRENCH
TYPICAL DETAIL**
 NTS

WEST DIVERSION CHANNEL CHANNEL DESIGN DATA					
STATIONING	BOTTOM WIDTH B (ft)	FLOW DEPTH Y (ft)	MINIMUM CHANNEL DEPTH D (ft)	RIPRAP D50 (in)	RIPRAP THICKNESS l (ft)
00+00 TO 11+00	12	2.0	3.0	9	18
11+00 TO 11+08	TRANSITION				
11+08 TO 13+67	12	2.0	3.0	9	18
13+67 TO 13+72	TRANSITION				
13+72 TO 15+08	12	1.8	2.8	12	24
15+08 TO 15+11	TRANSITION				
15+11 TO 15+89	12	1.7	2.7	12	24
15+89 TO 15+74	TRANSITION				
15+74 TO 18+08	12	1.8	2.8	12	24
18+08 TO 18+11	TRANSITION				
18+11 TO 18+91	12	1.8	2.8	12	24
18+91 TO 18+98	TRANSITION				
18+98 TO 23+31	12	1.7	2.7	12	24
23+31 TO 23+38	TRANSITION				
23+38 TO 28+95	12	1.8	2.8	12	24
28+95 TO 27+00	TRANSITION				
27+00 TO 31+01	12	2.0	3.0	9	18
31+01 TO 31+08	TRANSITION				
31+08 TO 32+94	12	2.1	3.1	18	36
32+94 TO 32+99	TRANSITION				
32+99 TO 48+03	12	3.0	4.0	9	18
48+03 TO 48+08	TRANSITION				
48+08 TO 48+39	12	2.2	3.2	9	18
48+39 TO 48+44	TRANSITION				
48+44 TO 51+00	12	1.8	2.8	12	24
51+00 TO 51+08	TRANSITION				
51+08 TO 52+90	12	3.0	4.0	9	18
TRANSITION TO RIPRAP OUTLET APRON					

EAST DIVERSION CHANNEL CHANNEL DESIGN DATA					
STATIONING	BOTTOM WIDTH B (ft)	FLOW DEPTH Y (ft)	MINIMUM CHANNEL DEPTH D (ft)	RIPRAP D50 (in)	RIPRAP THICKNESS l (ft)
37+80 TO 43+08	20	1.8	2.8	18	36
43+08 TO 43+11	TRANSITION				
43+11 TO 48+55	20	1.9	2.9	18	36
48+55 TO 48+80	TRANSITION				
48+80 TO 51+77	20	2	3.0	18	36
51+77 TO 51+82	TRANSITION				
51+82 TO 52+04	20	2	3.0	18	36
52+04 TO 52+08	TRANSITION				
52+08 TO 52+29	20	2.3	3.3	9	18
TRANSITION TO SEDIMENT BASIN					

NOTES:
 1. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.

LAST REVISED BY: 08/2024
 DRAWN BY: MICHAEL ANDREW
 CHECKED BY: MICHAEL ANDREW
 PRINTED BY: MICHAEL ANDREW
 PRINT TIME: 11/20/2023 9:04 AM

REV	DATE	DESCRIPTION	APP'D	CHK'D
A	1/15/2023	ISSUED FOR INTERNAL REVIEW	MS	JA
B	1/30/2023	ISSUED FOR REVIEW	MS	JA

DISCLAIMER

KNIGHT PIÉSOŁ AND CO. PRODUCE THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIENT ANY RIGHTS TO SUCH TECHNICAL INFORMATION OR METHODS. ANY ADAPTATION OR MODIFICATION OF THE DATA ON DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PIÉSOŁ AND CO.

CLIENT		PROJECT			
FREEPORT-MCMORAN CHINO MINES COMPANY		CHINO DAM 8 WASTE ROCK STOCKPILE			
		TITLE IMPACTED STORMWATER DIVERSION CHANNEL DETAILS			
DESIGNED BY	MS	LOCATION	PROJECT NUMBER	DRAWING NUMBER	REVISION
DRAWN BY	JA	TU101	00636.09	145	B

Freeport-McMoRan Inc.
 Attention: Accounts Payable
 333 N Central Ave, Room 23.306
 Phoenix, AZ. 85004

RETURN SERVICE REQUESTED



Check No. 0001040481
 Check Date 06/14/2024
 Check Amount \$1,000.00
 Vendor No. 0000805500
 Payment Reference No. 20608835621899



OD-000005 0001 0001 000011

STATE OF NEW MEXICO
 NM ENRGY MNRLS & NAT RES DPT
 1220 S SAINT FRANCIS DR
 SANTA FE, NM 87505-4225

PLEASE DIRECT ANY INQUIRIES
 TO THE AP HELP DESK:
 AP@FMI.COM

Invoice Date	Invoice Number	PO#/Freeport Site/ Description	Invoice Amount	Discount Amount	Net Amount
06/13/2024	06132024SM	FM Chino Mines Company THIS FEE IS NEEDED FOR A MODIF	\$1,000.00		\$1,000.00
TOTAL					\$1,000.00

↓ PLEASE FOLD ON PERFORATION AND DETACH HERE ↓

VERIFY THE AUTHENTICITY OF THIS MULTI-TONE SECURITY DOCUMENT.

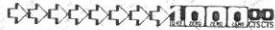
■ CHECK BACKGROUND AREA CHANGES COLOR GRADUALLY FROM TOP TO BOTTOM

FREEPORT MINERALS CORPORATION
 333 NORTH CENTRAL AVE
 PHOENIX, AZ 85004-2121



0001040481
 June 14, 2024

64-1278/611
 VOID AFTER 180 DAYS
 PAY IN US DOLLARS



Amount: **One Thousand dollars and 00 cents**

****\$1,000.00****

Pay to the order of
 STATE OF NEW MEXICO
 NM ENRGY MNRLS & NAT RES DPT

Bank of America N.A.
 Atlanta, Dekalb County, Georgia

M. Hall

AUTHORIZED SIGNATURE