



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 Buttrass**

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 buttrass/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:

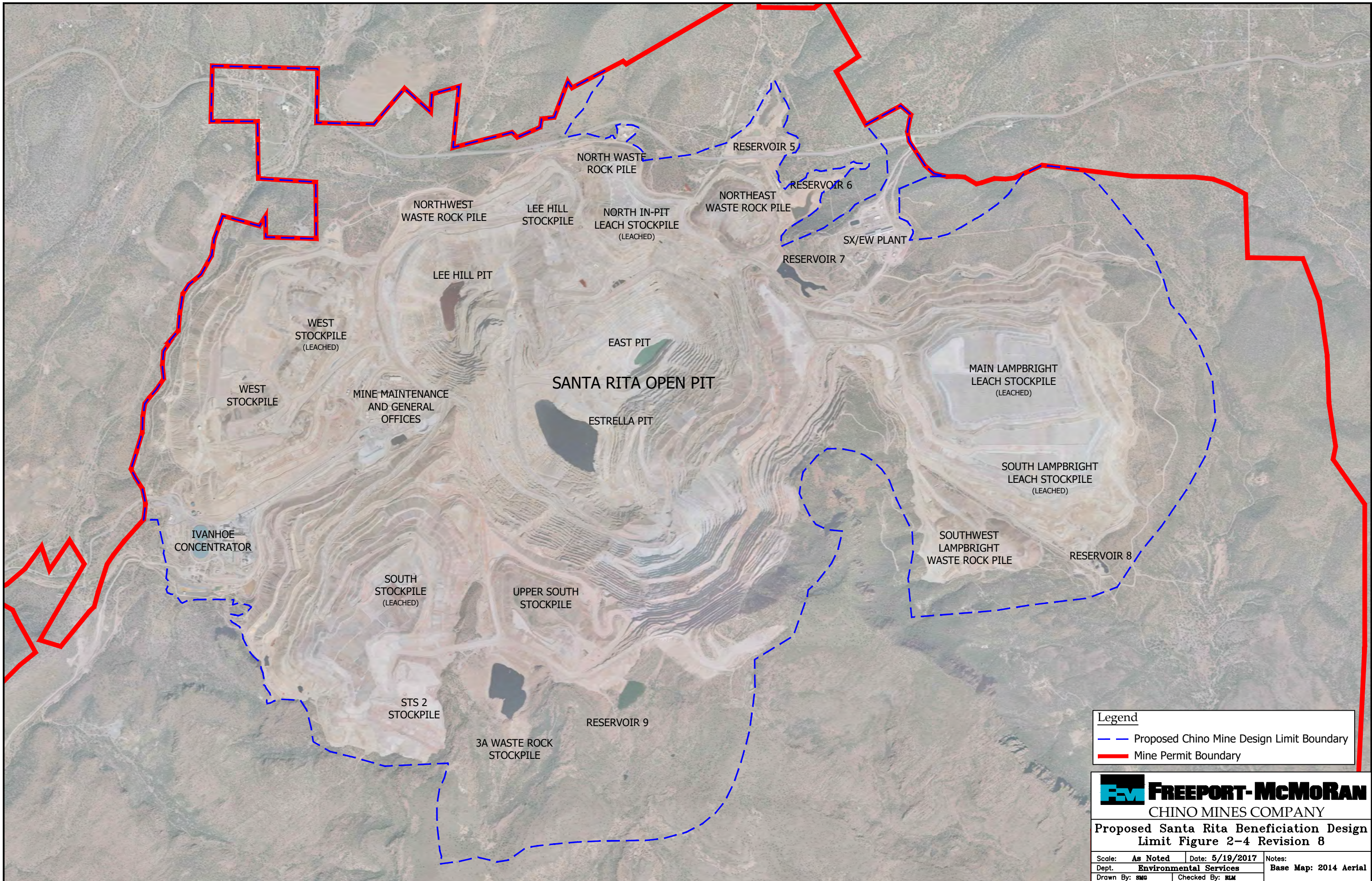
1. Chino Mine Design Limits
2. Reclamation Design Drawing No. 7, Chino CCP Appendix A
3. Closure Design of SW Waste Rock Stockpile Before and After Buttress
4. DP-376 Map of SW Waste Rock Stockpile including Buttress
5. Knight Piesold Consulting Design of the Southwest Lampbright Waste Rock Stockpile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



SBK: ml

Enclosures

20240626-002

## **Chino Mine Design Limits**



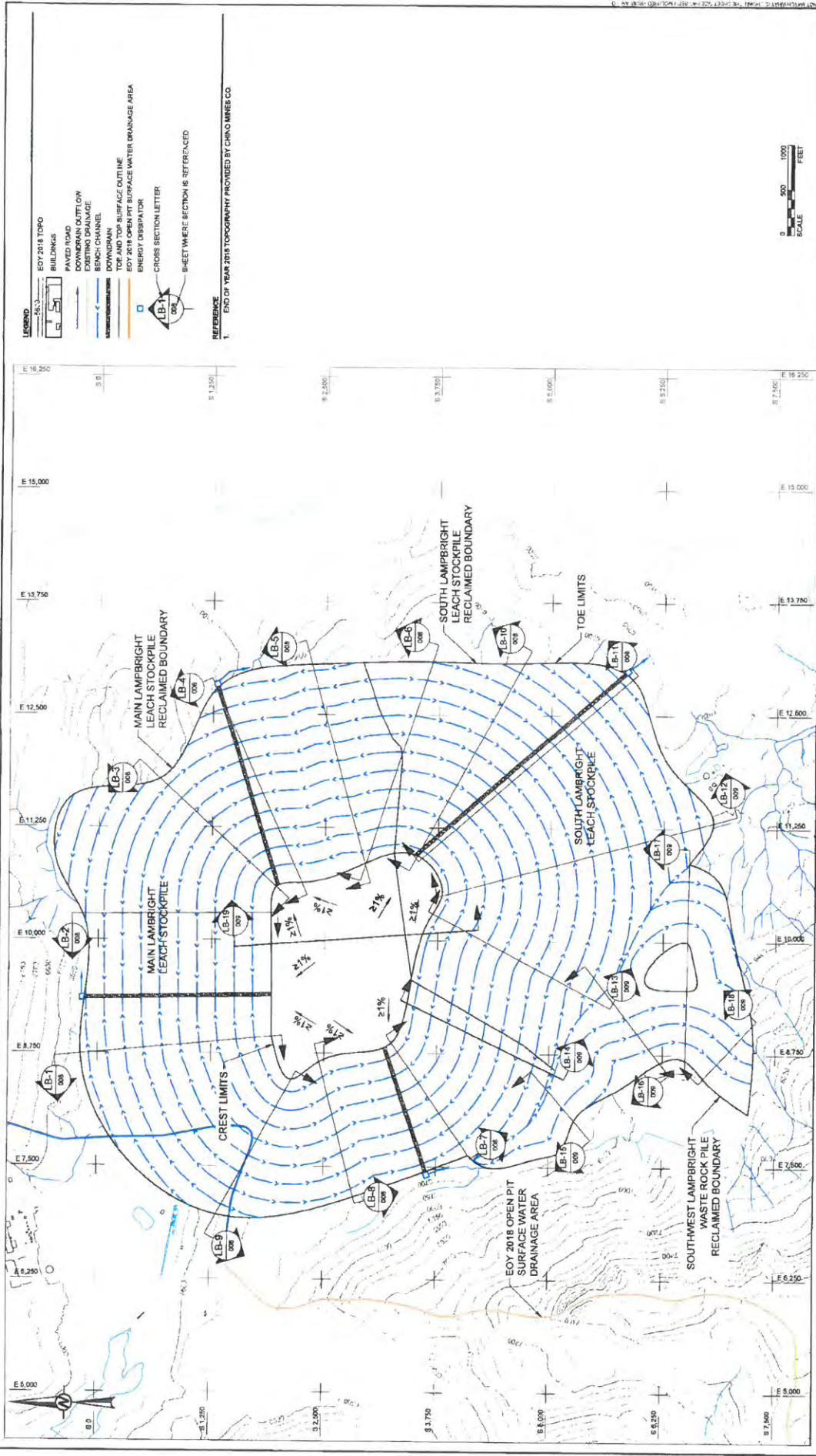
| Legend  |   |
|---|---|
|  | Proposed Chino Mine Design Limit Boundary |
|  | Mine Permit Boundary                      |

**FMC** **FREEPORT-McMORAN**  
CHINO MINES COMPANY

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

|                                     |                              |        |
|-------------------------------------|------------------------------|--------|
| Scale: <b>As Noted</b>              | Date: <b>5/19/2017</b>       | Notes: |
| Dept. <b>Environmental Services</b> | <b>Base Map: 2014 Aerial</b> |        |
| Drawn By: <b>SMG</b>                | Checked By: <b>ELM</b>       |        |

**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.
- SHEET WHERE SECTION IS REFERENCED



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

**TITLE**  
LAMBRIGHT STOCKPILE GRADING AND DRAINAGE PLAN

PROJECT No  
1401129

Rev. 6 of 30 C

FIGURE  
007

**CLIENT**  
CHINO MINES COMPANY

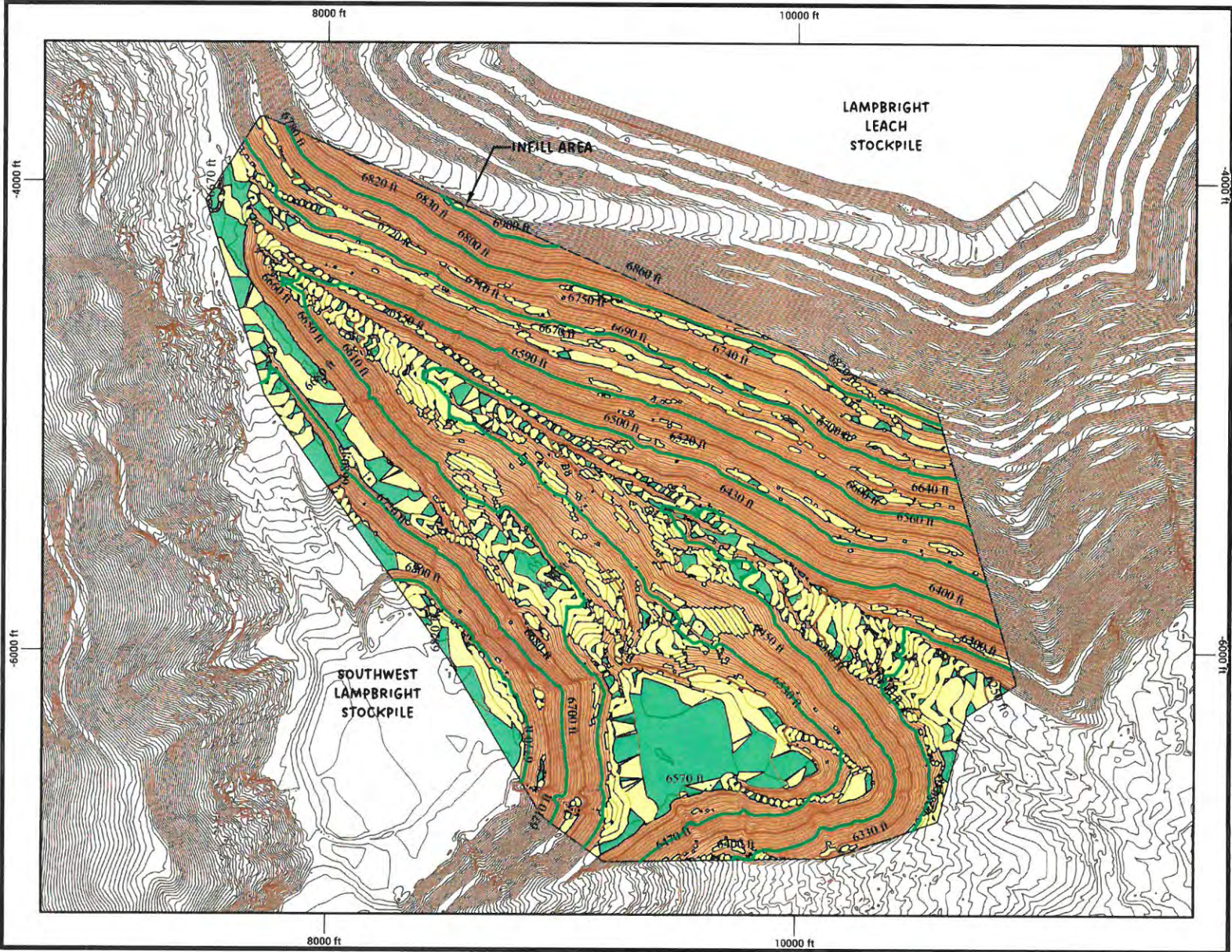
**CONSULTANT**  
GOLDER ASSOCIATES

**DENVER OFFICE**  
44 Union Boulevard, Suite 300  
Lawrence, Colorado  
(303) 440-8840  
www.golder.com



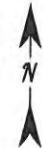

| Rev. | Description  | Prepared | Design | Review | Approved |
|------|--|----------|--------|--------|----------|
| C    | 2014-04-12 INCORPORATE CLIENT COMMENTS & ISSUE FOR CLIENT REVIEW | DET      | DET    | TMF    | BRB      |
| Rev. | 1/11/13-CD   |          |        |        |          |

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



**NOTES:**

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

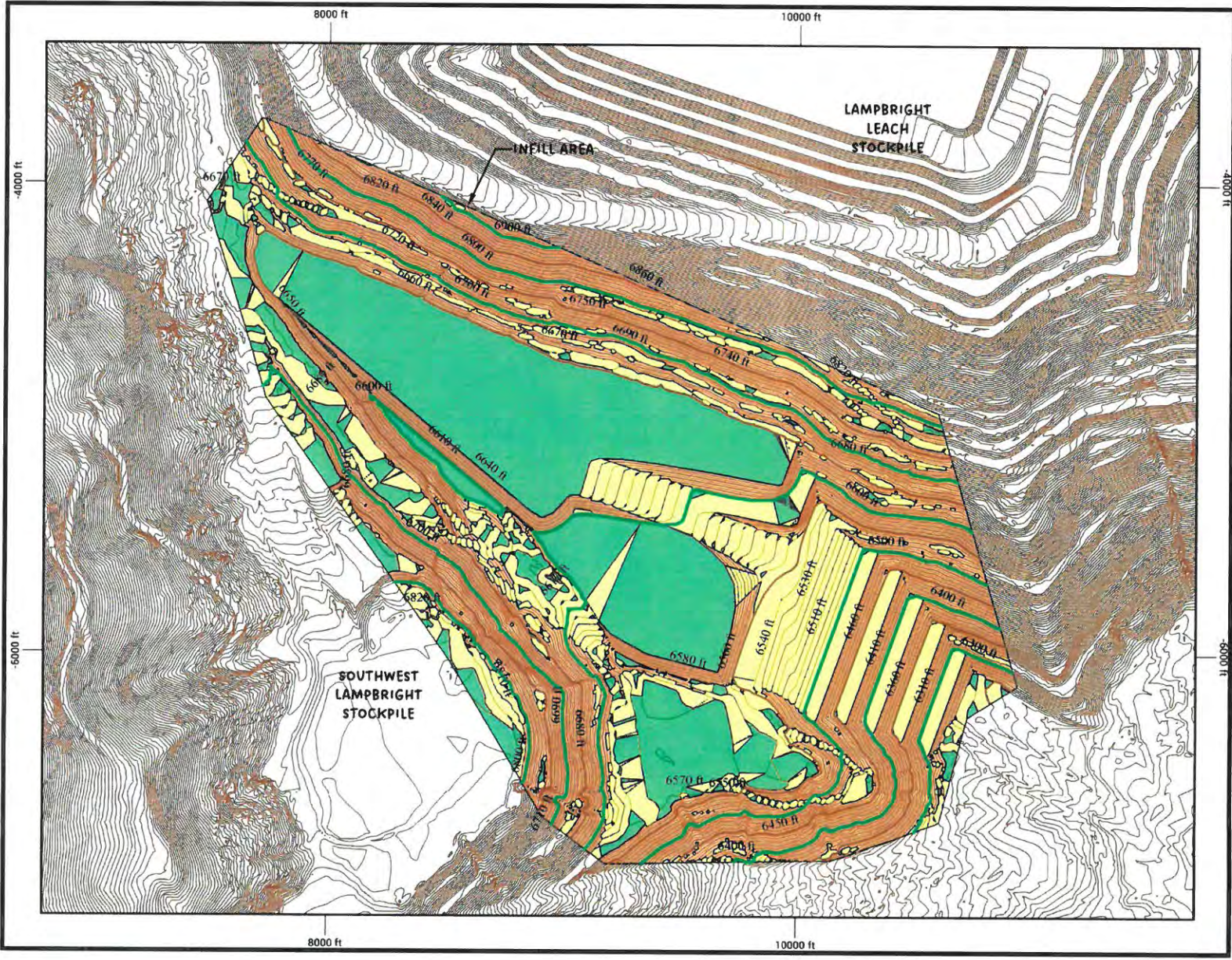


  
 SCALE IN FEET  
 COORDINATE SYSTEM  
 NAD83 CHINO LOCAL

**FIGURE 1**  
**SW AND LAMPBRIGHT BUTTRESS**  
**PRE-PLACEMENT**

PREPARED BY:  
**TELESTO**  
 SOLUTIONS INCORPORATED

PREPARED FOR:  
**Freeport-McMoRan**





**NOTES:**

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

  
  
 SCALE IN FEET  
 COORDINATE SYSTEM  
 NAD83 CHINO LOCAL

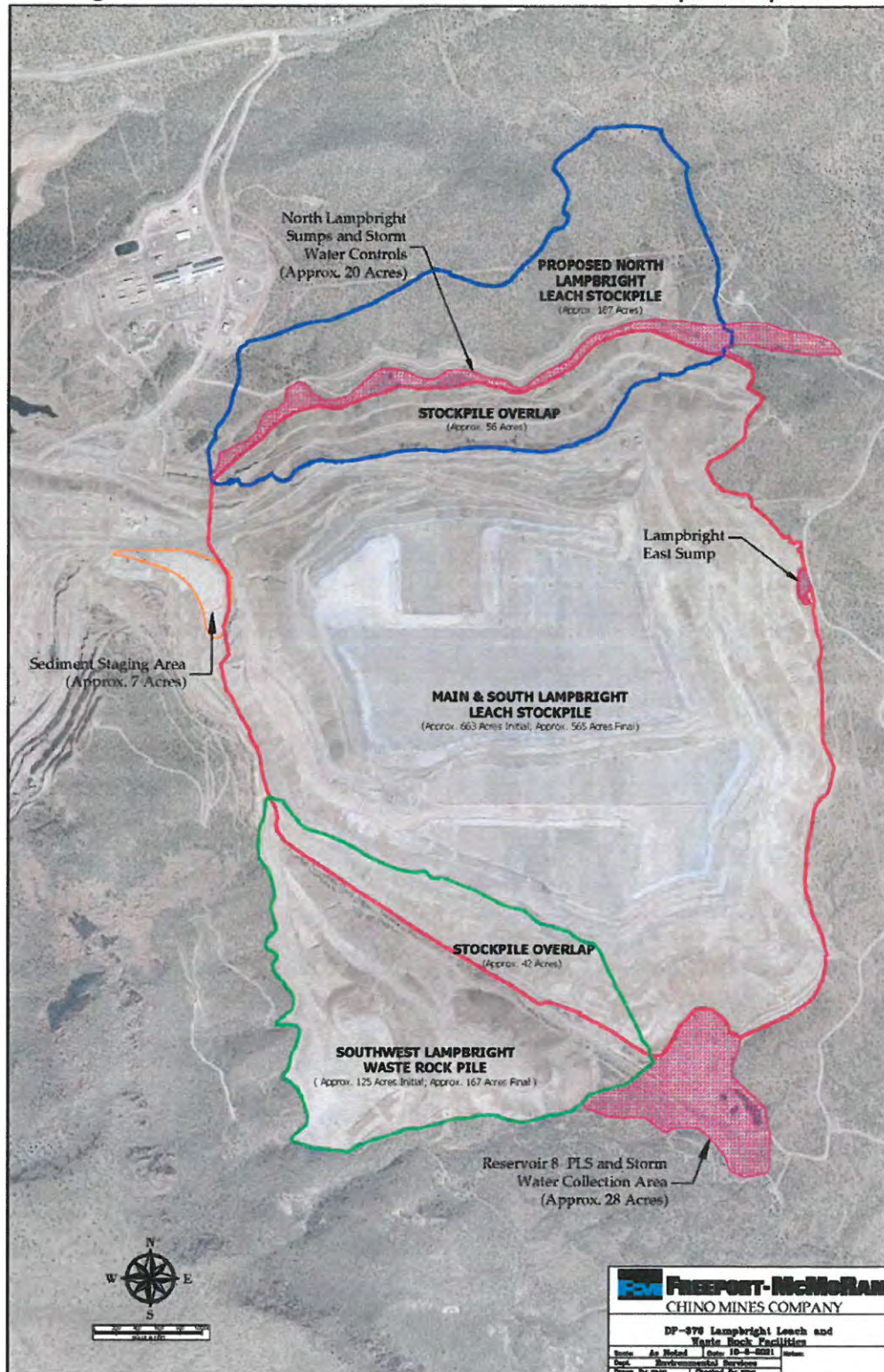
**FIGURE 2**  
**SW AND LAMPBRIGHT BUTTRESS**  
**POST-PLACEMENT**

PREPARED BY:  


PREPARED FOR:  


**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    |
| 006            | 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    |
| 116            | 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    |
| 136            | 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 108  
 Elko, Nevada 89801

STATE OF NEW MEXICO  
 DRAWING NO. TN-1000638-005  
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE  
 PRINTED BY: RICHARD BECKA, PRINT TIME: 11/20/2023 8:01 AM



**STATE OF NEW MEXICO**  
NTS



Google Earth

**PROJECT LOCATION MAP**  
NTS

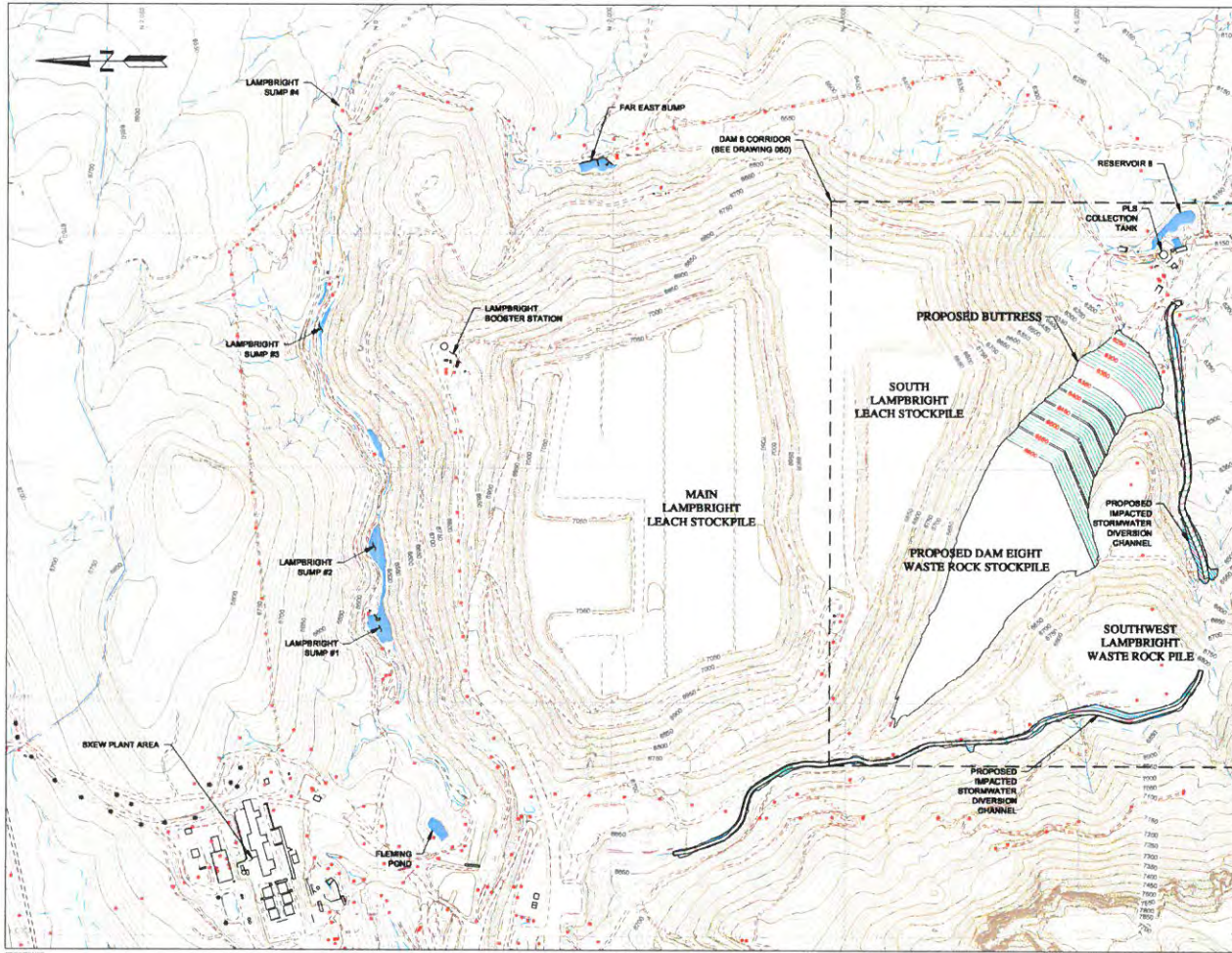
| REV | DATE      | DESCRIPTION                | APP'D | CHK'D |
|-----|-----------|----------------------------|-------|-------|
| A   | 1/11/2023 | ISSUED FOR INTERNAL REVIEW | RB    | JA    |
| B   | 1/20/2023 | ISSUED FOR REVIEW          | RB    | JA    |
|     |           |                            |       |       |

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**CLIENT**  
 FREEPORT-MCMORAN CHINO MINES COMPANY

**KNIGHT PIESOLD CONSULTING**

|   |                 |                          |                          |                     |             |              |  |  |  |  |
|---|-----------------|--------------------------|--------------------------|---------------------|-------------|--------------|--|--|--|--|
| <b>PROJECT</b><br>CHINO DAM 8 WASTE ROCK STOCKPILE  |                 |                          |                          |                     |             |              |  |  |  |  |
| <b>TITLE</b><br>PROJECT LOCATION MAP  |                 |                          |                          |                     |             |              |  |  |  |  |
| <table border="0"> <tr> <td>DESIGNED BY: RB</td> <td>LOCATION: TU101</td> <td>PROJECT NUMBER: 00636.09</td> <td>DRAWING NUMBER: 005</td> <td>REVISION: B</td> </tr> <tr> <td>DRAWN BY: JA</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | DESIGNED BY: RB | LOCATION: TU101          | PROJECT NUMBER: 00636.09 | DRAWING NUMBER: 005 | REVISION: B | DRAWN BY: JA |  |  |  |  |
| 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
- PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
- EXCAVATED GROUND SURFACE CONTOUR AND EL. FEET
- EXISTING DRAINAGE
- EXISTING ROAD
- EXISTING POWERPOLE
- EXISTING LIGHTPOLE
- EXISTING BUILDINGS AND INFRASTRUCTURE
- MINE PERMIT BOUNDARY

**NOTES:**

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

REVISIONS:  
 1. PLYING TOPOGRAPHY PROVIDED BY 480/10001 MCMORAN CHINO MINES COMPANY ON 10/11/16 & 2/20/17 (2014 & 2017 SURVEYS, RESPECTIVELY) AND UNITED STATES GEOLOGICAL SURVEY (ACCA/MS/D 59/251)  
 2. EXISTING WASTE ROCK STOCKPILE 111111 PROVIDED BY 480/10001 MCMORAN CHINO MINES COMPANY ON 01/13/15  
 3. COORDINATE SYSTEM: LOCAL MNS (SRS)



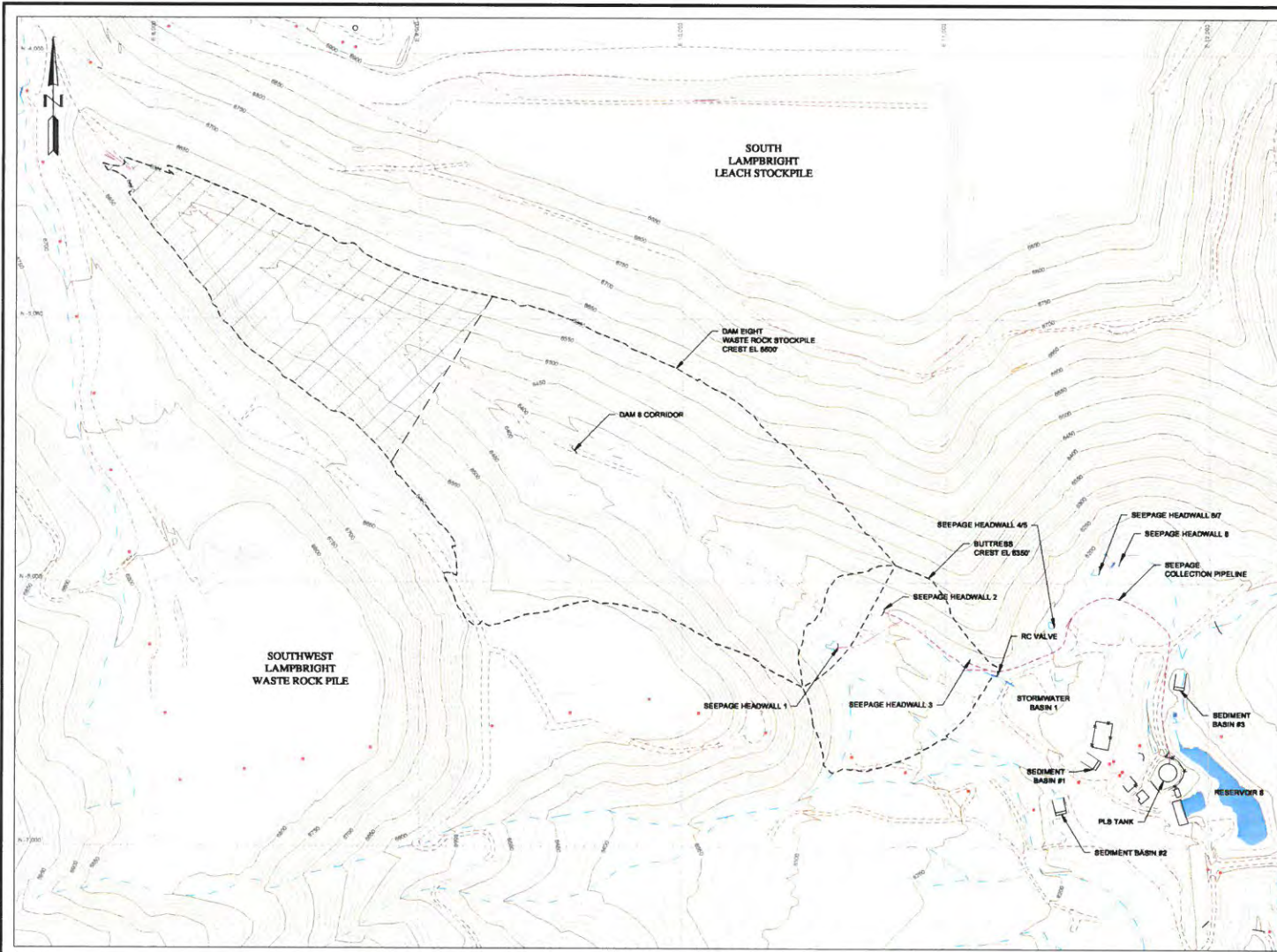
DATE PLOTTED: 08/01/2023  
 DRAWN BY: JAK  
 CHECKED BY: JAK  
 PRINTED BY: RICHARD BENDALL  
 PRINT TIME: 12/20/2023 8:01 AM

| REV | DATE       | DESCRIPTION                | APP'D |
|-----|------------|----------------------------|-------|
| A   | 10/13/2023 | ISSUED FOR INTERNAL REVIEW | JAK   |
| B   | 12/09/2023 | ISSUED FOR REVIEW          | JAK   |
| —   | —          | —                          | —     |
| —   | —          | —                          | —     |

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

|  |                                 |
|--|---------------------------------|
| PROJECT: <b>CHINO DAM 8 WASTE ROCK STOCKPILE</b> |                                 |
| TITLE: <b>OVERALL SITE PLAN</b>                  |                                 |
| DESIGNED BY: <b>MS</b>                           | LOCATION: <b>TU101</b>          |
| DRAWN BY: <b>JA</b>                              | PROJECT NUMBER: <b>00636.09</b> |
|  | DRAWING NUMBER: <b>050</b>      |
|  | REVISION: <b>B</b>              |



- 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 FREDRICK MCMORAN CHINO MINES COMPANY ON 10/19/18 & 01/11 & 02/01 SURVEYS. RE: PROJECTIVITY AND UNIT 10.0. STATE GEOLOGICAL SURVEY (AGS/ISS/D 201331)  
 - EXISTING WASTE ROCK STOCKPILE LAYOUT PROVIDED BY FREDRICK MCMORAN CHINO MINES COMPANY ON 01/23/13  
 - COORDINATE SYSTEM: LOCAL MINE DMS



| REV | DATE       | DESCRIPTION                | APP'D | CHK'D |
|-----|------------|----------------------------|-------|-------|
| A   | 10/13/2023 | ISSUED FOR INTERNAL REVIEW | MS    | JA    |
| B   | 12/09/2023 | ISSUED FOR REVIEW          | MS    | JA    |

**DISCLAIMER**

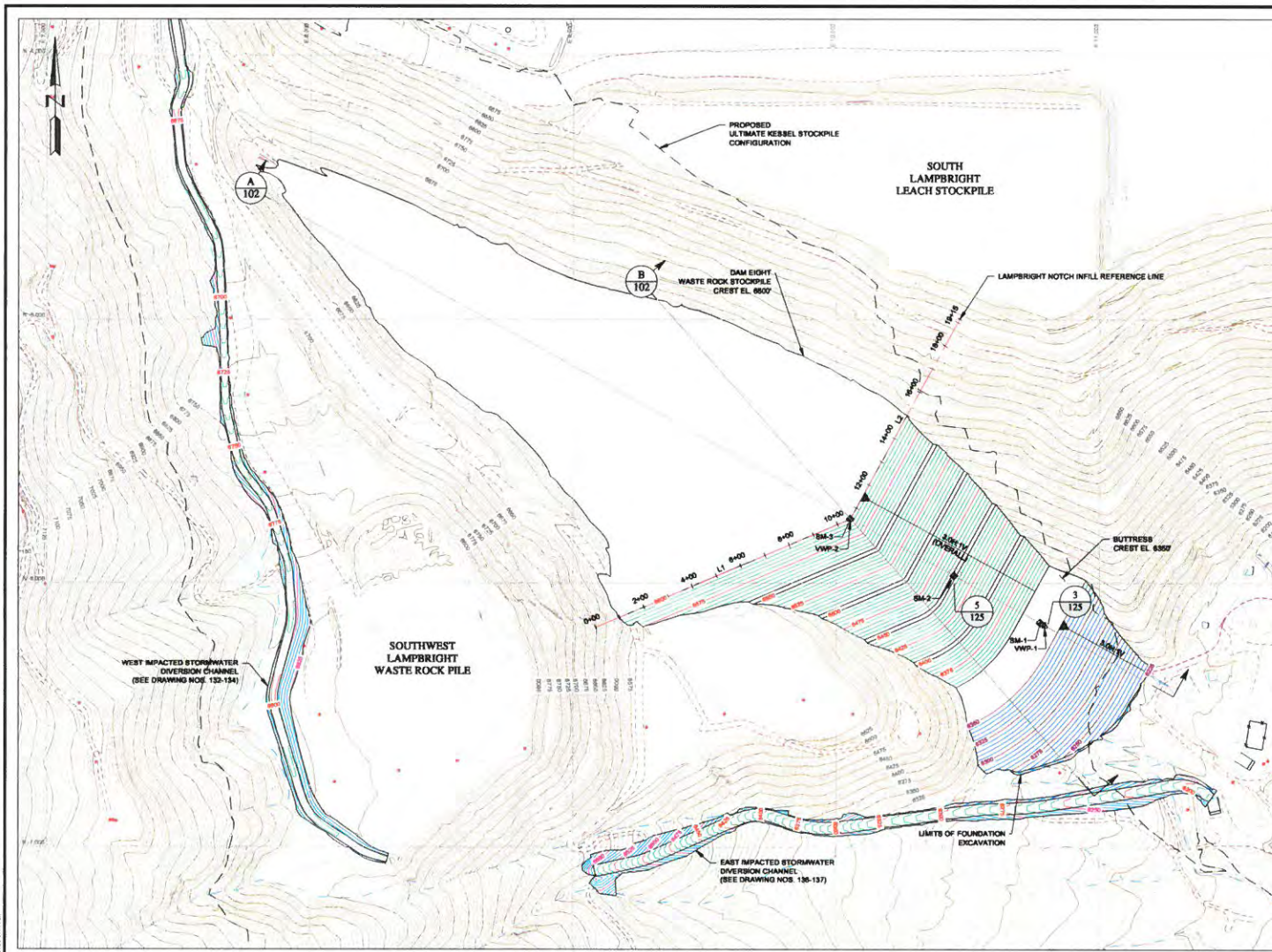
Knight Piésold and Co. (KPCO) has prepared the data shown here on using both technical information and methods. Receipt of this drawing does not warrant to the recipient any rights to such technical information or methods. Any adaptation or modification of the data on drawing shall be at user's sole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

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

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

LAST DRAWN BY: HENRIKKA  
 DATE: 12/09/2023 10:00 AM  
 PRINTED BY: MICHAEL BENDAL  
 PRINT TIME: 12/09/2023 10:11 AM





- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
  - REGRADED GROUND SURFACE CONTOUR AND EL. FEET
  - PROPOSED BUTTRESS SURFACE CONTOUR AND EL. FEET
  - EXCAVATED GROUND SURFACE CONTOUR AND EL. FEET
  - EXISTING DRAINAGE
  - EXISTING ROAD
  - EXISTING POWERPOLE
  - EXISTING BUILDINGS AND INFRASTRUCTURE
  - PROPOSED VIBRATING WIRE PIEZOMETER LOCATION
  - 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  | -5,168.0      | 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           | -5,162.45     | 10,791.44    | 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 BUTTRESS.

**PLAN**



| REV | DATE       | DESCRIPTION       | APP'D | CHECKED |
|-----|------------|-------------------|-------|---------|
| A   | 08/09/2023 | PRELIMINARY       | JB    | JA      |
| B   | 08/27/2023 | ISSUED FOR REVIEW | JB    | JA      |
| C   | 10/29/2023 | ISSUED FOR REVIEW | JB    | JA      |

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PARENT: FREEPORT-MCMORAN CHINO MINES COMPANY (FMC) HAS REVIEWED 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 ADAPTATION OR MODIFICATION OF THE DATA OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KNIGHT PISOLSOLD AND CO.

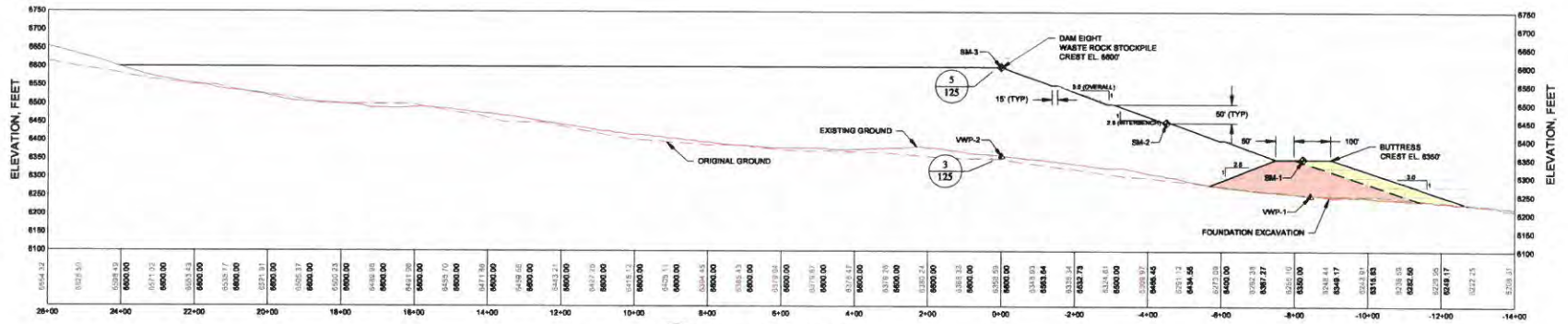
**CLIENT**

FREEPORT-MCMORAN CHINO MINES COMPANY

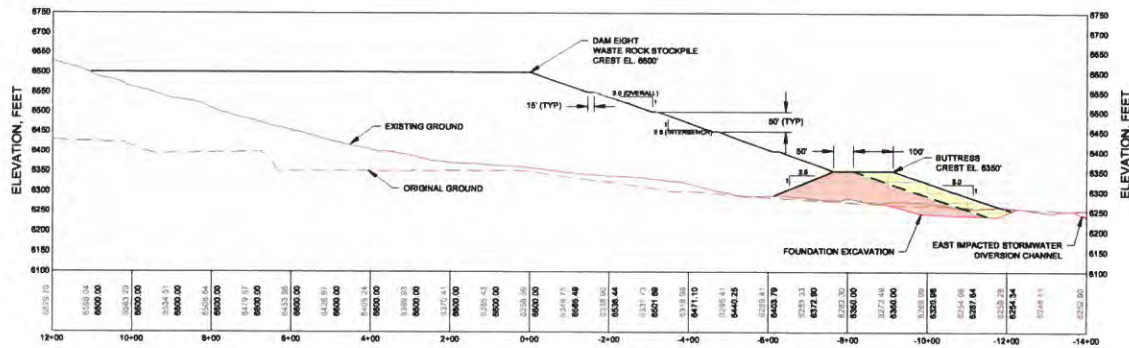


| PROJECT                          |    |                |          |
|----------------------------------|----|----------------|----------|
| CHINO DAM 8 WASTE ROCK STOCKPILE |    |                |          |
| TITLE                            |    |                |          |
| DAM EIGHT WASTE ROCK STOCKPILE   |    |                |          |
| GENERAL LAYOUT                   |    |                |          |
| DESIGNED BY                      | JB | PROJECT NUMBER | 00636.09 |
| DRAWN BY                         | JA | DRAWING NUMBER | 100      |
|                                  |    |                | REVISION |
|                                  |    |                | C        |

DATE: 10/27/2023 10:58 AM  
 FILE: C:\Users\jacob\OneDrive\Documents\CHINO DAM 8 WASTE ROCK STOCKPILE\CHINO DAM 8 WASTE ROCK STOCKPILE\_GENERAL\_LAYOUT.dwg  
 PLOT: 10/27/2023 10:58 AM  
 PLOTTED BY: RICHARD BENDIS



**A WASTE ROCK STOCKPILE SECTION**



**B WASTE ROCK STOCKPILE SECTION**



**LEGEND:**

- EXISTING GROUND PROFILE
- FOUNDATION EXCAVATION PROFILE
- DAM EIGHT PROPOSED DESIGN PROFILE
- ▲ VWP-1 PROPOSED VIBRATING WIRE PIEZOMETER LOCATION
- ◆ SM-1 PROPOSED SURVEY MONUMENT LOCATION
- ELEVATION OF EXISTING GROUND SURFACE AND ESTIMATED TOP OF BUTTRESS AND WASTE ROCK STOCKPILE AT SPECIFIC STATION (FEET)
- BUTTRESS FILL ZONE (SEE NOTE 2)
- WASTE ROCK ZONE (SEE NOTE 3)

**NOTES:**

1. SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
2. BUTTRESS FILL ZONE TO BE PLACED PER THE TECHNICAL SPECIFICATIONS.
3. WASTE ROCK ZONE HAS NO TECHNICAL SPECIFICATION AND MAY BE PLACED BY CONTRACTOR FLEET OR MINE EQUIPMENT.

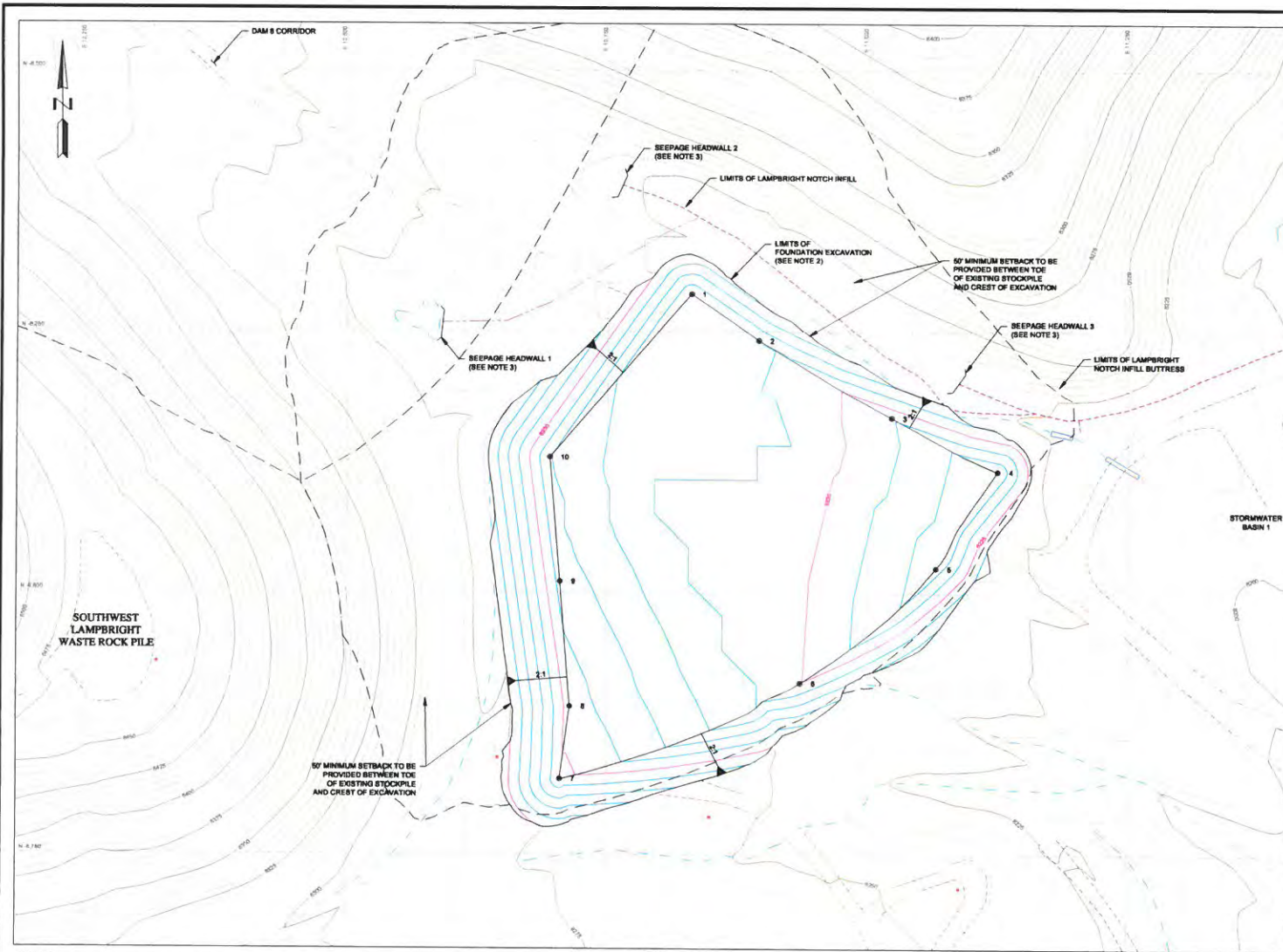
| REV | DATE       | DESCRIPTION       | APPROVED |
|-----|------------|-------------------|----------|
| A   | 09/09/2023 | PRELIMINARY       | JA       |
| B   | 08/27/2023 | ISSUED FOR REVIEW | JA       |
| C   | 10/20/2023 | ISSUED FOR REVIEW | JA       |

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 KNIGHT PIESOLD AND ITS PROVIDERS TO THE CLIENT HEREBY DISCLAIM BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPLY TO THE PROVIDER ANY RESPONSIBILITY FOR 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 PIESOLD AND CO.

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

**Knicht Piesold CONSULTING**

|  |                                 |
|--|---------------------------------|
| PROJECT: <b>CHINO DAM 8 WASTE ROCK STOCKPILE</b>             |                                 |
| TITLE: <b>DAM EIGHT WASTE ROCK STOCKPILE TYPICAL SECTION</b> |                                 |
| DESIGNED BY: <b>ME</b>                                       | PROJECT NUMBER: <b>00636.09</b> |
| DRAWN BY: <b>JA</b>  | DRAWING NUMBER: <b>102</b>      |
| DATE: <b>TU101</b>   | REVISION: <b>C</b>              |



**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       | -8,680.2      | 10,835.4     | 8,225.3        | 6           |
| 7       | -8,870.3      | 10,705.1     | 8,280.8        | 7           |
| 8       | -8,808.8      | 10,714.6     | 8,247.5        | 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.

REFERENCES:  
 ERIE TEL. TOPOGRAPHY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 10/28/14 & 2/20/15. DATA & 2015 BUREAU OF SURVEYING (B.S.) AND LIMITED STATE OF ILLINOIS SURVEY (ACT 2013-11)  
 RESURVEY WASTE ROCK STOCKPILE & LIMITS PROVIDED BY HKS SPORTS MANAGEMENT CHINO MINES COMPANY ON 01/01/15  
 COORDINATE SYSTEM: LOCAL MINE GRID



| REV | DATE       | DESCRIPTION       | APP'D | DISCLAIMER  | CLIENT                               |
|-----|------------|-------------------|-------|---|--------------------------------------|
| A   | 08/09/2023 | PRELIMINARY       | MS    | KNIGHT, PIESOLD 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 OR DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY ON LEGAL EXPOSURE TO KNIGHT, PIESOLD AND CO. | FREEPORT-MCMORAN CHINO MINES COMPANY |
| B   | 06/27/2023 | ISSUED FOR REVIEW | JA    |   |                                      |
| C   | 1/20/2023  | ISSUED FOR REVIEW | JA    |   |                                      |

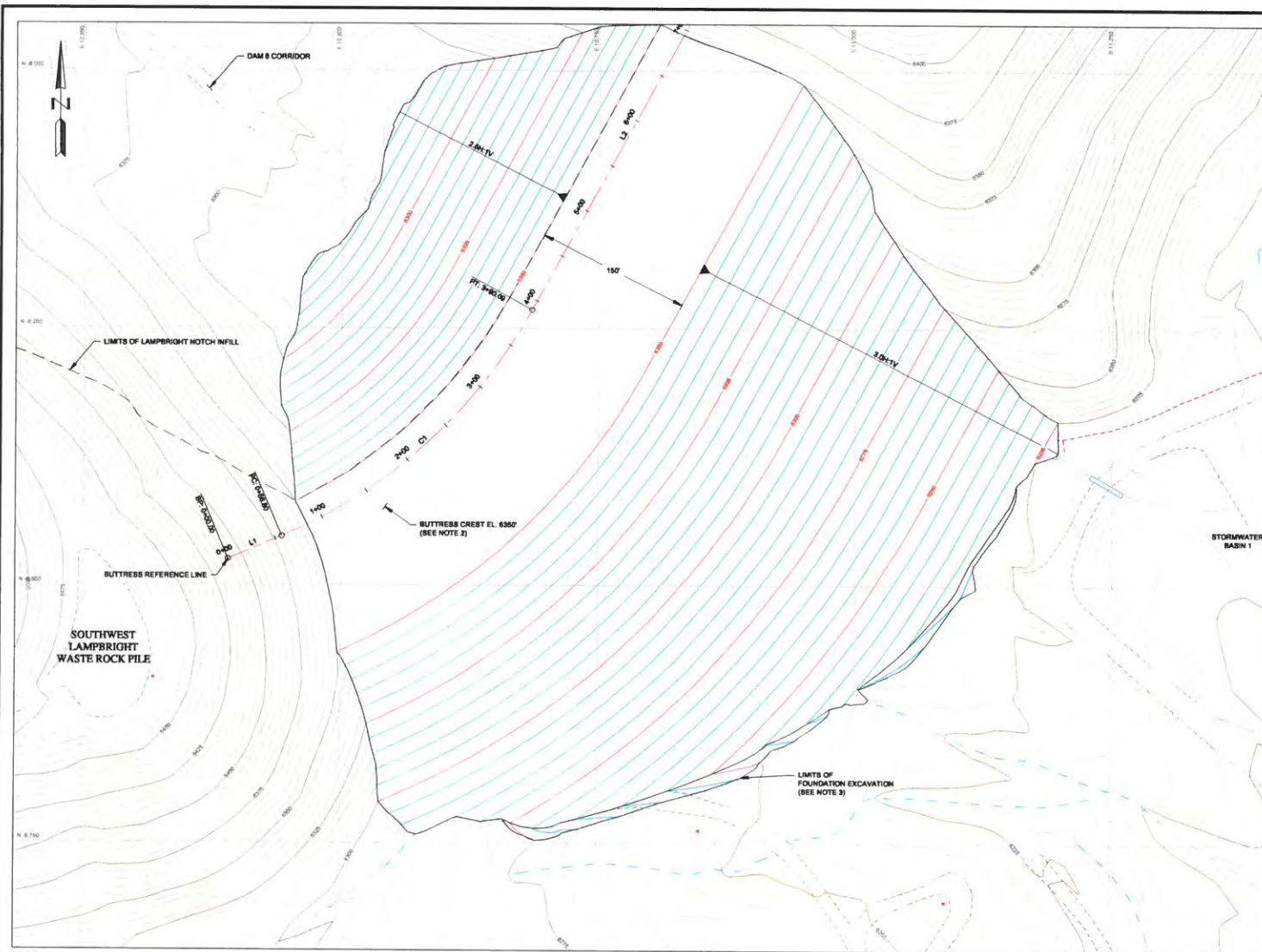
**PROJECT** CHINO DAM 8 WASTE ROCK STOCKPILE

**TITLE** BUTTRISS FOUNDATION EXCAVATION PLAN

**DESIGNED BY** MS **LOCATION** TU101 **PROJECT NUMBER** 0636.09 **DRAWING NUMBER** 105 **REVISION** C

**DRAWN BY** JA

DATE PLOTTED: 11/14/2023 10:58:00 AM  
 DRAWING TITLE: BUTTRISS FOUNDATION EXCAVATION PLAN  
 PRINTED BY: RICHARD BUCKALA, PRINT TIME: 11/20/2023 8:55 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  | -8,451.2      | 10,390.3     |             |
|    | 0+56.8  | -8,428.9      | 10,442.5     |             |
| C1 | 0+56.8  | -8,428.9      | 10,442.5     | 501         |
|    | 3+00.1  | -8,200.1      | 10,684.9     |             |
| L2 | 3+00.1  | -8,200.1      | 10,684.9     |             |
|    | 7+00.8  | -8,856.1      | 10,878.1     |             |

- NOTES:**
- SCALE BAR MEASURES 3" ON A FULL SIZE PLOT (ANSI-D) AND 1.5" ON A HALF SIZE PLOT (ANSI-B).
  - 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. SURVEYING TOPOGRAPHIC PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 10/29/18 & 2021 (DATA & 8000 BLANKS TO SUBSCRIPTION) AND LIMITED STATE GEOLOGICAL SURVEY ACCESSION 090302  
 2. ASTERIX WASTE ROCK STOCKPILE MAP PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 07/21/21  
 3. COOPERATIVE SYSTEM LOCAL WASTE PILE

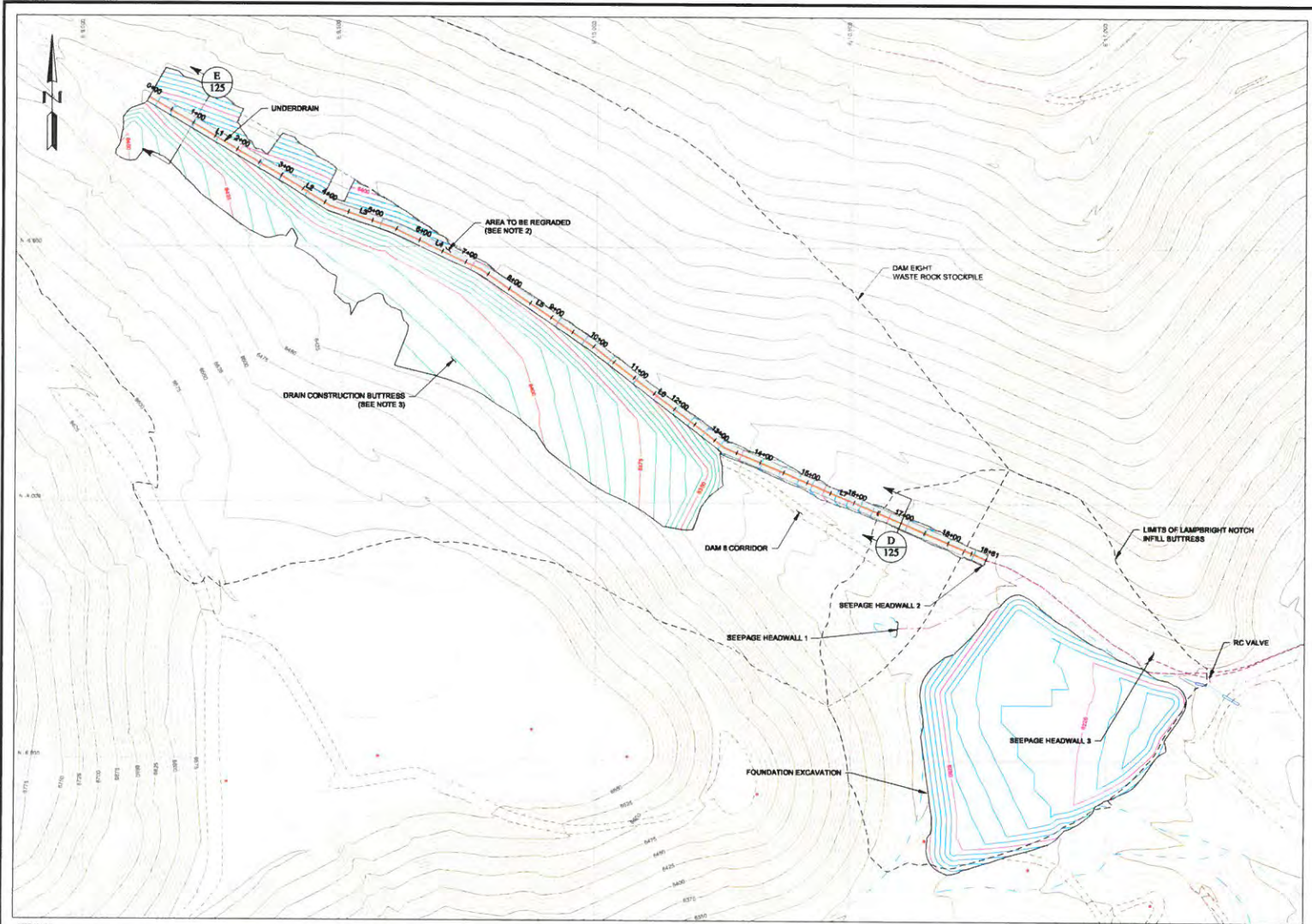
| REV | DATE       | DESCRIPTION       | APP'D | DISCLAIMER  | CR. REV |
|-----|------------|-------------------|-------|---|---------|
| A   | 08/08/2023 | PRELIMINARY       | MS    | KNIGHT, PIÉSOLED AND CO. PRODUCE TO THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPARTY 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 ON KNIGHT, PIÉSOLED AND CO. |         |
| B   | 08/27/2023 | 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 | MS                               | LOCATION       | TU101 | PROJECT NUMBER | 00636.09 |
| DRAWN BY    | JA                               | DRAWING NUMBER | 110   | REVISION       | C        |

LAST REVISED BY: MS  
 DRAWING DATA: KnightPiésold.com/Drawings/00636.09/Design/CAZD/Drawings/General/00636.09\_110.dwg  
 PRINTED BY: MICHAEL BLOOM, PRINT TIME: 12/05/2023 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

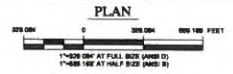
**TABLE 5  
UNDERDRAIN CENTERLINE  
HORIZONTAL CONTROL DATA**

| ID | STATION | NORTHING (ft) | EASTING (ft) | RADIUS (ft) |
|----|---------|---------------|--------------|-------------|
| L1 | 0+00.0  | -5,219.4      | 9,123.9      |             |
|    | 3+06.4  | -5,955.5      | 9,387.1      |             |
| L2 | 3+06.4  | -5,955.5      | 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+32.8  | -5,564.0      | 9,772.9      |             |
| L5 | 7+32.8  | -5,564.0      | 9,772.9      |             |
|    | 9+99.1  | -5,883.0      | 9,965.5      |             |
| L6 | 9+99.1  | -5,883.0      | 9,965.5      |             |
|    | 13+23.4 | -5,890.9      | 10,250.3     |             |
| L7 | 13+23.4 | -5,890.9      | 10,250.3     |             |
|    | 18+80.7 | -5,108.9      | 10,783.3     |             |

- NOTES:**
- SCALE BAR MEASURES 2" ON A FULL SIZE PLOT (ANSI-D) AND 1" 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.

DATE: 10/15/2023 11:58:54 AM  
 DRAWING: CHINO DAM 8 WASTE ROCK STOCKPILE UNDERDRAIN PLAN  
 PRINTED BY: MICHAEL BECKER, PRINT TIME: 11/02/2023 9:52 AM

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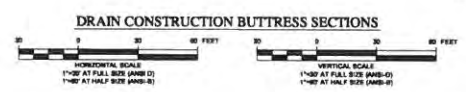
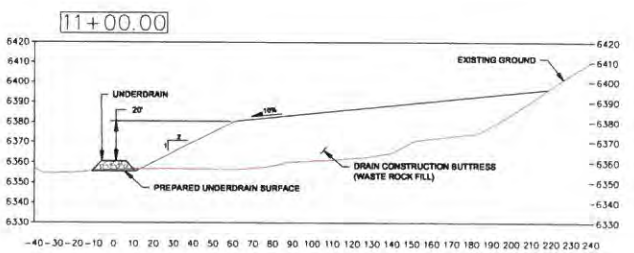
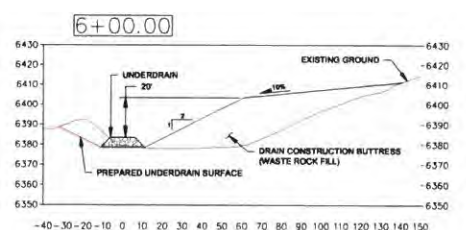
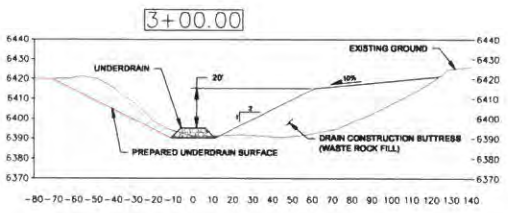
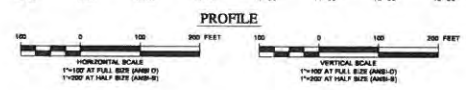
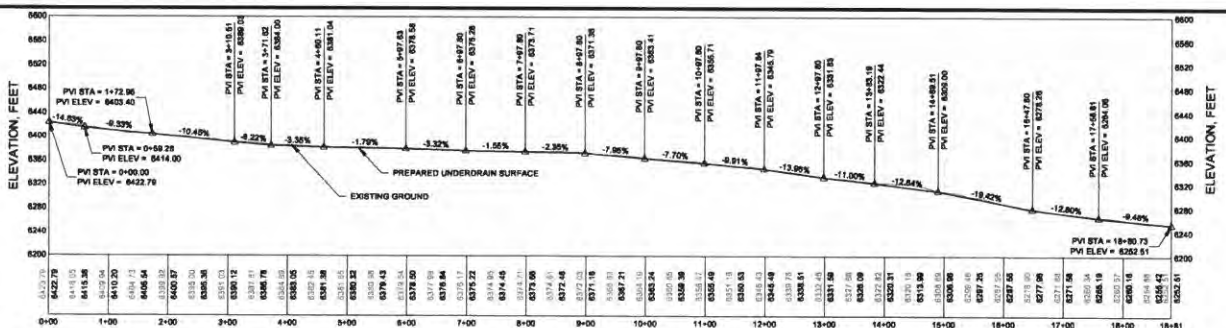
| REV | DATE       | DESCRIPTION                | APPROVED | DATE |
|-----|------------|----------------------------|----------|------|
| A   | 10/19/2023 | ISSUED FOR INTERNAL REVIEW | JA       |      |
| B   | 10/20/2023 | ISSUED FOR REVIEW          | JA       |      |

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PROJECT: **FREEPORT-MCMORAN CHINO MINES COMPANY**  
 TITLE: **UNDERDRAIN PLAN**  
 DESIGNED BY: JA  
 DRAWN BY: JA  
 LOCATION: TUJ01  
 PROJECT NUMBER: 00636.09  
 DRAWING NUMBER: 115  
 REVISION: B





**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).

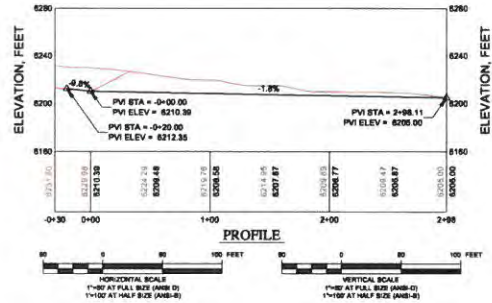
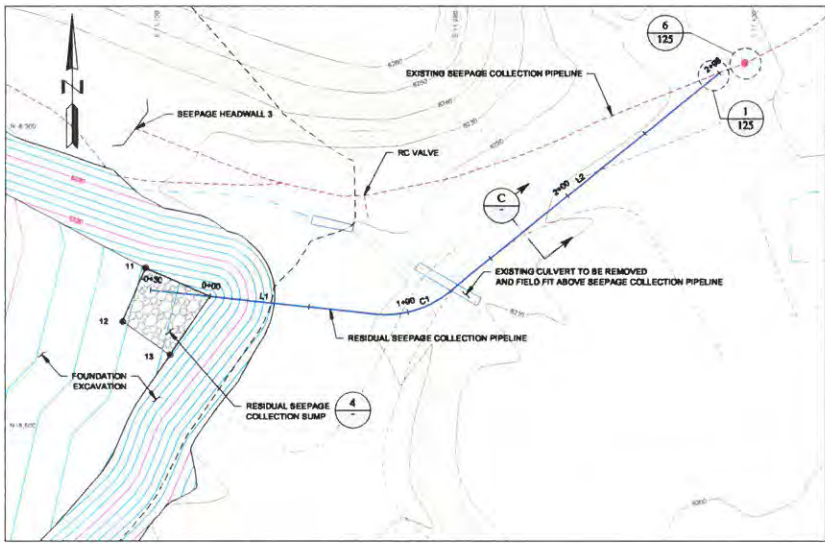
| REV | DATE      | DESCRIPTION                | APP'D | DISCLAIMER   | DESIGN |
|-----|-----------|----------------------------|-------|--|--------|
| A   | 1/20/2023 | ISSUED FOR INTERNAL REVIEW | MS    | KNIGHT PIÉSOLED AND COL PRODUCE THIS DATA SHOWING HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPARTY 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 COL. |        |
| B   | 1/20/2023 | ISSUED FOR REVIEW          | MS    |  |        |

FREEMONT-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              |

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 C:\Users\jbrunson\OneDrive - Knight Piésold\Documents\Projects\00636\00636\_09\Design\CADD\dwg\plan\chinosdam\chinosdam\_11.dwg  
 PRINTED BY: RICHARD BENDAL PRINT TIME: 1/20/2023 8:02 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
  - EXISTING SEEPAGE COLLECTION PIPELINE
  - PROPOSED SEEPAGE COLLECTION PIPELINE
  - PROPOSED SEEPAGE COLLECTION PIPELINE CLEANOUT
  - ELEVATION OF EXISTING GROUND SURFACE AND ESTIMATED BOTTOM OF PIPE TRENCH EXCAVATION

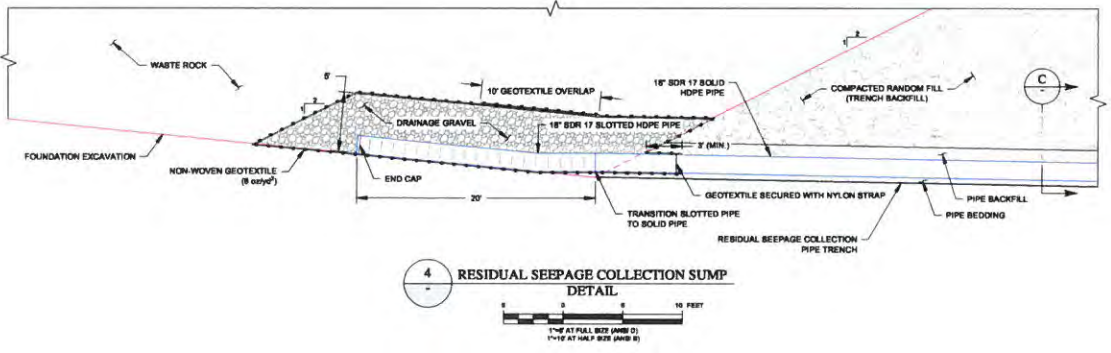
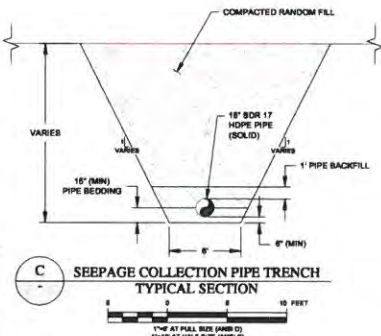
**TABLE 6  
RESIDUAL SEEPAGE COLLECTION PIPELINE  
HORIZONTAL CONTROL DATA**

| ID | STATION | NORTHING (ft) | EASTING (ft) | RADIUS (ft) |
|----|---------|---------------|--------------|-------------|
| L1 | 0+30.00 | -6300.18      | 11094.43     |             |
|    | 0+83.69 | -6302.20      | 11207.49     |             |
| C1 | 0+83.69 | -6302.20      | 11207.49     | 50.0        |
|    | 1+23.11 | -6301.29      | 11244.31     |             |
| L2 | 1+23.11 | -6301.29      | 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      | -6369.37      | 11,091.74    | 0.00           | 11          |
| 12      | -6306.01      | 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 | CHECKED |
|-----|-----------|----------------------------|-------|---------|
| A   | 1/01/2022 | ISSUED FOR INTERNAL REVIEW | JR    | JA      |
| B   | 1/20/2023 | ISSUED FOR REVIEW          | JR    | JA      |

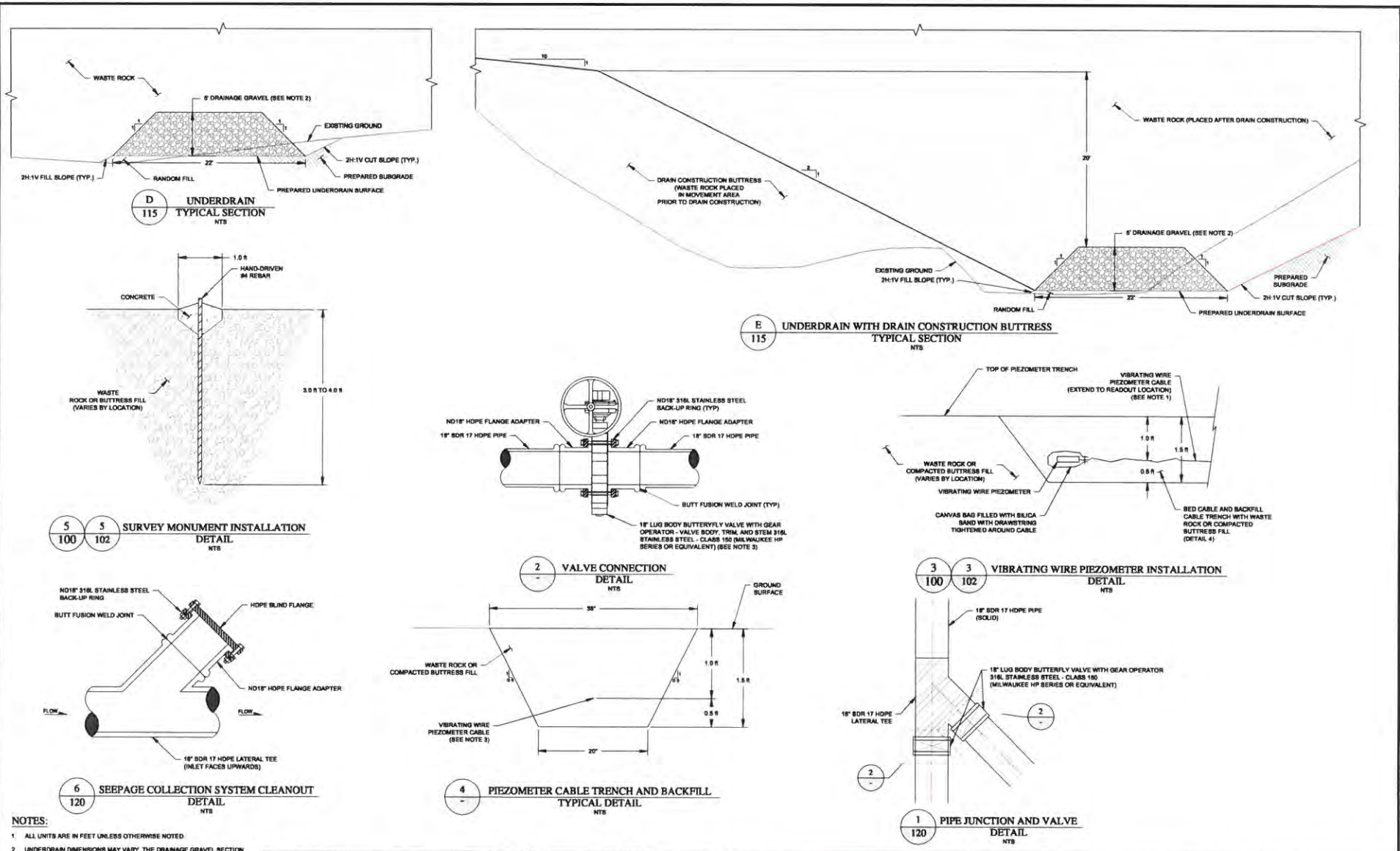
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CLIENT: **FREEMPORT-MCMORAN CHINO MINES COMPANY**

**kp Knight Piesold CONSULTING**

| PROJECT  |                   | CHINO DAM 8 WASTE ROCK STOCKPILE |                     |
|--|-------------------|----------------------------------|---------------------|
| <b>RESIDUAL SEEPAGE COLLECTION SUMP PLAN, PROFILE, DETAIL, AND SECTION</b> |                   |                                  |                     |
| DESIGNED BY: JR  | TITLEBLOCK: TU101 | PROJECT NUMBER: 00636.09         | DRAWING NUMBER: 120 |
| DRAWN BY: JA   | REVISION: B       |                                  |                     |

LAST DRAWN BY: JRENDA  
 PRINTED BY: RICHARD BEAL, PRINT TIME: 1/20/2023 10:03 AM  
 FILE: C:\Users\jren\Documents\CAD\Drawings\chm\chm-40636-09-120-12.dwg



- NOTES:**
1. ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED
  2. UNDERDRAIN DIMENSIONS MAY VARY. THE DRAINAGE GRAVEL SECTION MUST BE APPROVED BY THE ENGINEER IN THE FIELD TO VERIFY MINIMUM CROSS SECTIONAL AREA OF 80 SQUARE FEET.
  3. SEAT MATERIAL FOR BUTTERFLY VALVE SHALL BE FLUOROCARBON TYPE FRAM (VYTON) OR EQUIVALENT. SEAT SHALL BE APPROPRIATE FOR PH3 SOLUTION (PH: 1.8-3.0) WITH A HIGH CONCENTRATION IN SULFURIC ACID.
  4. MINIMUM OF 10 PERCENT BLACK TO BE INSTALLED BY SERPENTINING THE CABLES ALONG THE ALIGNMENT OF THE TRENCH.

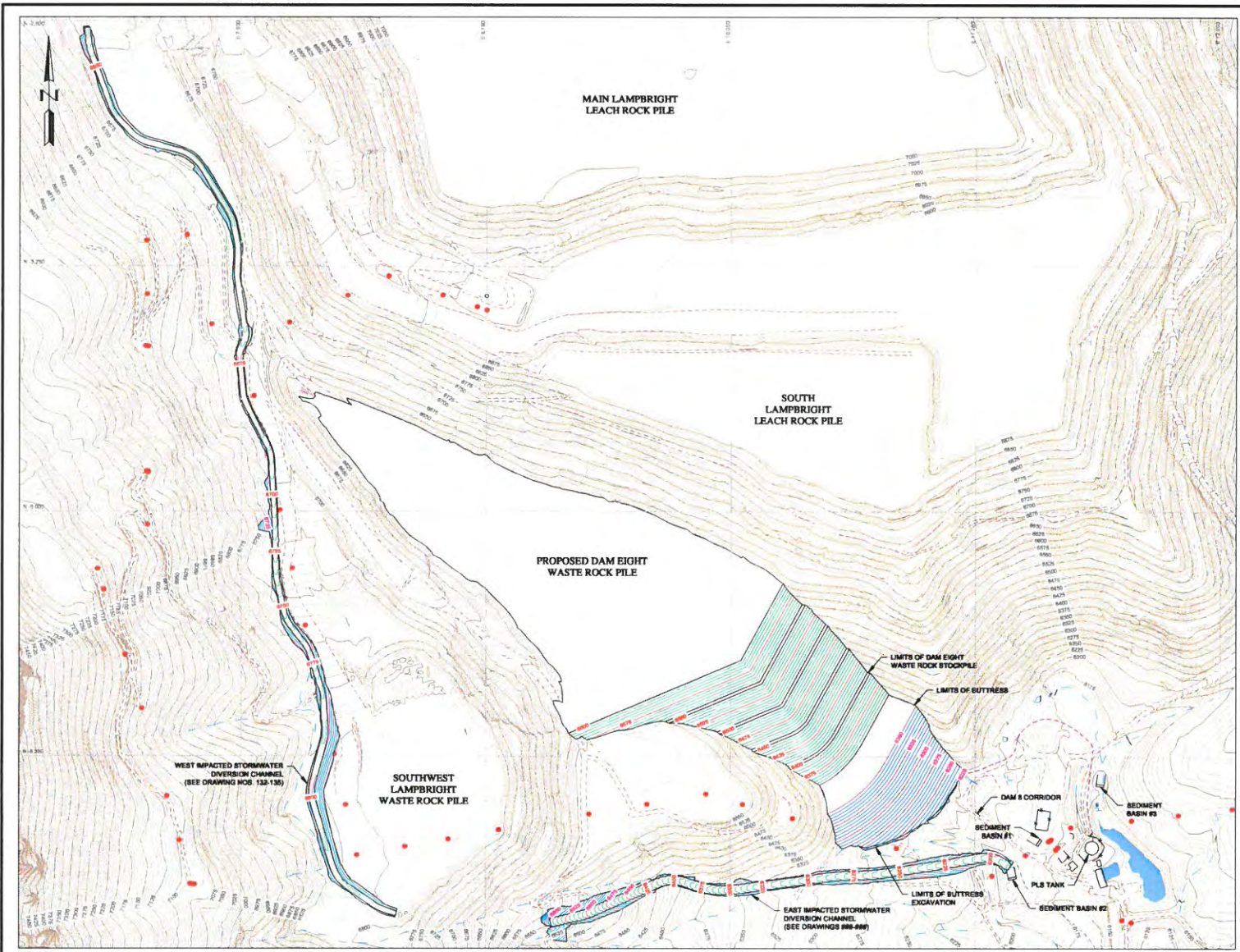
| REV | DATE       | DESCRIPTION                | APPROVED | DESIGNER |
|-----|------------|----------------------------|----------|----------|
| A   | 10/13/2023 | ISSUED FOR INTERNAL REVIEW | JA       | JA       |
| B   | 1/10/2024  | ISSUED FOR REVIEW          | JA       | JA       |

|   |                                  |  |
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| <p>PROJECT</p> <p>CHINO DAM 8 WASTE ROCK STOCKPILE</p>  |                                  | <p>TITLE</p> <p>TYPICAL SECTIONS AND DETAILS</p>           |
| <p>DESIGNED BY</p> <p>DRAWN BY</p>  | <p>NO</p> <p>JA</p>              | <p>LOCATION</p> <p>TU101</p>                               |
| <p>PROJECT NUMBER</p> <p>00636.09</p>   | <p>DRAWING NUMBER</p> <p>125</p> | <p>REVISION</p> <p>B</p>                                   |



LAST MAILED BY: JREINZKA  
 DATE: 1/10/2024 10:51:00 AM  
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE  
 DRAWING: TYPICAL SECTIONS AND DETAILS  
 PRINTED BY: MICHAEL BENDIS  
 PRINT TIME: 1/10/2024 8:03 AM





- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
  - REGRADED GROUND SURFACE CONTOUR AND EL. FEET
  - PROPOSED BUTRESS 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 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.

DATE PLOTTED: 1/10/2023 10:00 AM  
 PLOT SCALE: 1"=100'  
 PLOT ORIENTATION: N  
 PLOT SIZE: 11.0" x 17.0"  
 PLOT TITLE: CHINO DAM #8 WASTE ROCK STOCKPILE  
 PLOT NUMBER: 130  
 PLOT SHEET: 1 OF 1

| REV | DATE      | DESCRIPTION                | APP'D | CHECKED |
|-----|-----------|----------------------------|-------|---------|
| A   | 10/1/2022 | ISSUED FOR INTERNAL REVIEW | JB    | JA      |
| B   | 1/10/2023 | ISSUED FOR REVIEW          | JB    | JA      |

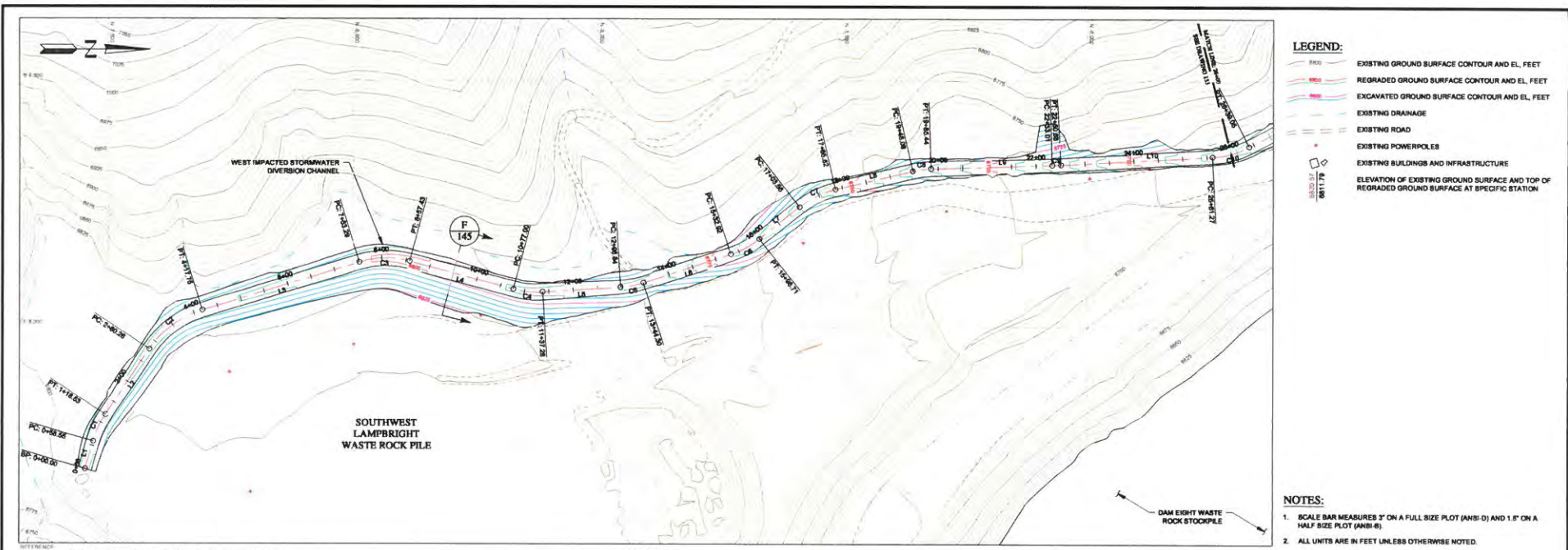
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CLIENT: **FREEMPORT-MCMORAN CHINO MINES COMPANY**

**Knights Pielsoold CONSULTING**

|  |                          |
|--|--------------------------|
| PROJECT: <b>CHINO DAM #8 WASTE ROCK STOCKPILE</b>        |                          |
| TITLE: <b>IMPACTED STORMWATER DIVERSION CHANNEL PLAN</b> |                          |
| DESIGNED BY: JB  | LOCATION: TU101          |
| DRAWN BY: JA   | PROJECT NUMBER: 00636.09 |
|  | DRAWING NUMBER: 130      |
|  | REVISION: B              |

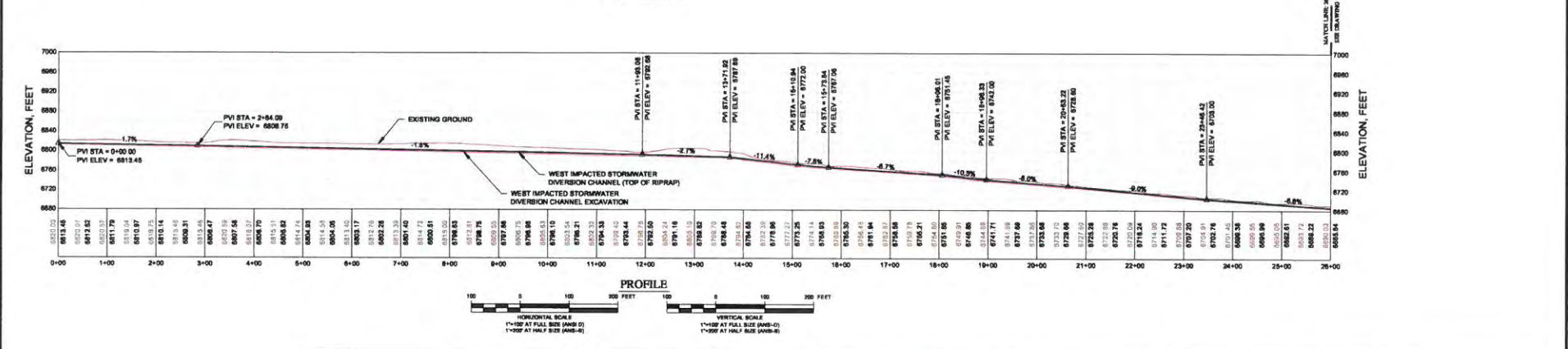
LAST SAVED BY: RHEINOLD  
 LAST SAVED DATE: 1/10/2023 10:00 AM  
 PRINTED BY: RICHARD BENA, PRINT TIME: 1/10/2023 8:03 AM



- LEGEND:**
- 8'00' EXISTING GROUND SURFACE CONTOUR AND EL. FEET
  - 8'00' REGRADED GROUND SURFACE CONTOUR AND EL. FEET
  - 8'00' 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:**
- SCALE BAR MEASURES 1" ON A FULL SIZE PLOT (ANSI-B) AND 1/8" ON A HALF SIZE PLOT (ANSI-E).
  - ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED.

WEST IMPACTED STORMWATER DIVERSION CHANNEL  
 SOUTHWEST LAMPBRIGHT WASTE ROCK PILE  
 DAM EIGHT WASTE ROCK STOCKPILE



| REV | DATE      | DESCRIPTION                | APP'D | CHK'D |
|-----|-----------|----------------------------|-------|-------|
| A   | 1/11/2023 | ISSUED FOR INTERNAL REVIEW | JB    | JA    |
| B   | 1/30/2023 | ISSUED FOR REVIEW          | JB    | JA    |

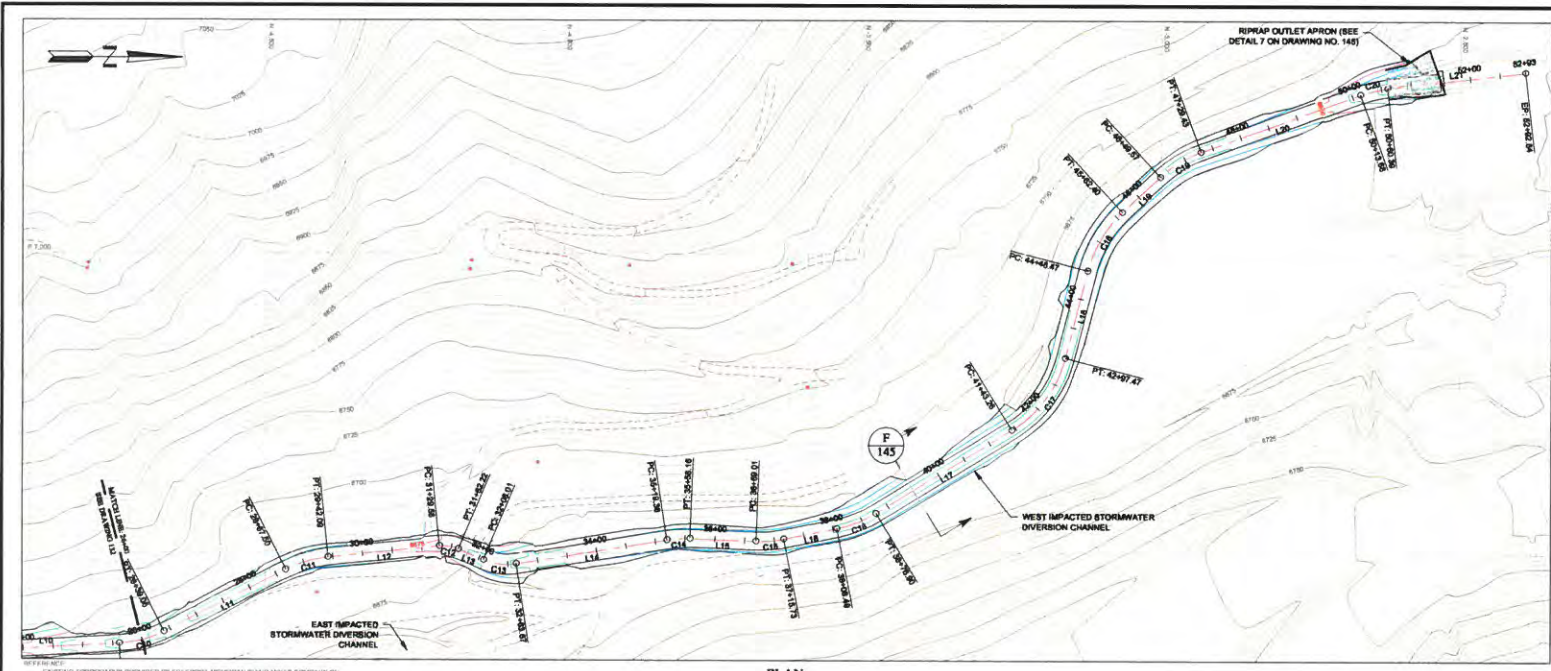
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FREEMPORT-MCMORAN CHINO MINES COMPANY



|  |    |                |          |
|--|----|----------------|----------|
| PROJECT  |    |                |          |
| CHINO DAM 8 WASTE ROCK STOCKPILE   |    |                |          |
| TITLE  |    |                |          |
| WEST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE (SHEET 1 OF 2) |    |                |          |
| DESIGNED BY  | JB | LOCATION       | TU101    |
| DRAWN BY   | JA | PROJECT NUMBER | 00636.09 |
|  |    | DRAWING NUMBER | 132      |
|  |    | REVISION       | B        |

DATE PLOTTED: 1/30/2023 10:00 AM  
 PLOTTER: HP DesignJet 2400  
 PRINTED BY: RICHARD BENDIS  
 PRINT TIME: 12:20:23 2/3/23 AM

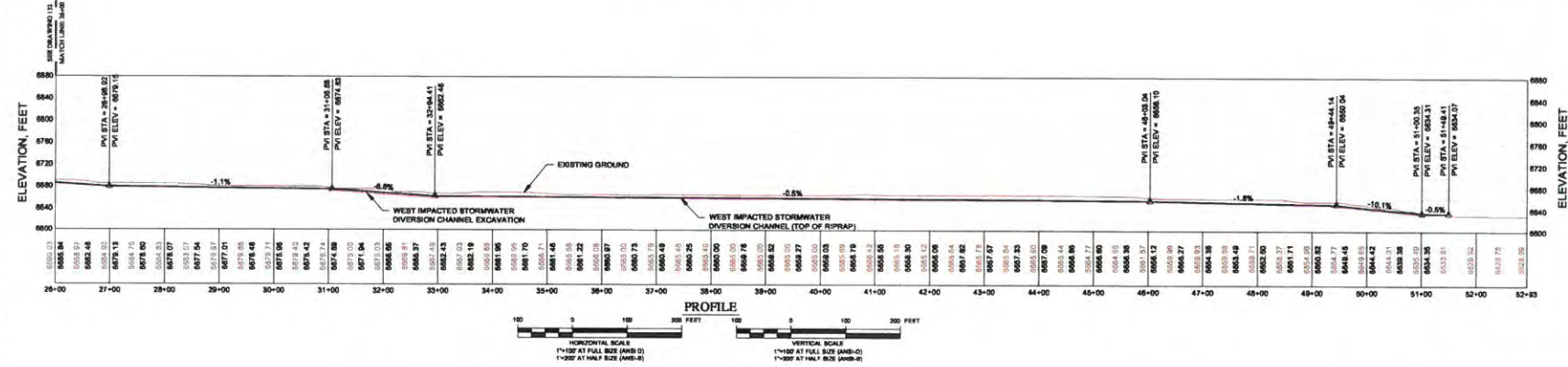


- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
  - REGRADED GROUND SURFACE CONTOUR AND EL. FEET
  - EXCAVATED GROUND SURFACE CONTOUR AND EL. FEET
  - EXISTING DRAINAGE
  - EXISTING ROAD
  - EXISTING POWERPOLES
  - EXISTING BUILDINGS AND INFRASTRUCTURE
  - ELEVATION OF EXISTING GROUND SURFACE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

EXISTING TOPOGRAPHY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY ON 10/26/15 & 2021 2024 & 2025. SURVEY REPRESENTATION AND UNITED STATES GEOLOGICAL SURVEY (ACCORDS 503 530371).  
 COORDINATE SYSTEM: NAD 83 UTM ZONE 18Q



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



| REV | DATE       | DESCRIPTION                | APP'D |
|-----|------------|----------------------------|-------|
| A   | 10/13/2023 | ISSUED FOR INTERNAL REVIEW | JA    |
| B   | 11/09/2023 | ISSUED FOR REVIEW          | JA    |

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|                |  |
|----------------|--|
| CLIENT         | FREEPORT-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    | MS   |
| DRAWN BY       | JA   |
| LOCATION       | TU101  |
| PROJECT NUMBER | 00636.09   |
| DRAWING NUMBER | 133  |
| REVISION       | B  |



LAST SAILED BY: WENDEA  
 LAST DATE: 11/09/2023  
 PRINTED BY: RICHARD BEAUCOURT  
 PRINT TIME: 12:02:23.833 AM

LAST SAVED BY: REVENZ  
 FILED AT: C:\Users\lucio\Documents\Freeport-MCM\CHINO DAM WASTE ROCK STOCKPILE\111\table6\_6\_110114.dwg  
 PRINTED BY: ROYALD BENCA. PRINT TIME: 3/20/2023 10:01 AM

| ID  | STATION  | NORTHING | EASTING | RADIUS |
|-----|----------|----------|---------|--------|
| L1  | 0+00.00  | -7047.06 | 8293.37 | 200.0  |
|     | 0+58.56  | -7030.98 | 8237.19 |        |
|     | 1+18.52  | -7006.40 | 8182.99 |        |
| L2  | 1+18.52  | -7006.40 | 8182.99 | 200.0  |
|     | 2+80.26  | -6816.11 | 8046.16 |        |
|     | 4+17.75  | -6808.15 | 7967.42 |        |
| L3  | 4+17.75  | -6808.15 | 7967.42 | 186.2  |
|     | 7+53.29  | -6487.44 | 7868.78 |        |
|     | 8+57.43  | -6384.67 | 7806.86 |        |
| L4  | 8+57.43  | -6384.67 | 7806.86 | 186.2  |
|     | 10+77.00 | -6172.53 | 7823.52 |        |
|     | 11+37.28 | -6112.82 | 7829.45 |        |
| L5  | 11+37.28 | -6112.82 | 7829.45 | 186.2  |
|     | 12+96.84 | -5863.67 | 7919.45 |        |
|     | 13+99.94 | -5863.07 | 7919.45 |        |
| L6  | 13+99.94 | -5863.07 | 7919.45 | 186.2  |
|     | 13+44.30 | -6007.09 | 7810.50 |        |
|     | 15+32.82 | -6727.91 | 7801.08 |        |
| L7  | 15+32.82 | -6727.91 | 7801.08 | 186.2  |
|     | 15+98.71 | -6670.29 | 7820.52 |        |
|     | 17+03.58 | -6688.16 | 7758.32 |        |
| L8  | 17+03.58 | -6588.19 | 7758.32 | 186.2  |
|     | 17+55.62 | -6514.82 | 7719.86 |        |
|     | 17+86.62 | -6514.82 | 7719.86 |        |
| L9  | 17+86.62 | -6514.82 | 7719.86 | 186.2  |
|     | 18+43.08 | -5366.75 | 7862.77 |        |
|     | 18+95.44 | -5319.78 | 7877.84 |        |
| L10 | 18+95.44 | -5319.78 | 7877.84 | 700.7  |
|     | 22+33.01 | -5072.30 | 7870.80 |        |
|     | 22+50.88 | -5084.45 | 7869.84 |        |
| L11 | 22+50.88 | -5084.45 | 7869.84 | 186.2  |
|     | 25+61.37 | -4744.53 | 7852.83 |        |
|     | 25+81.37 | -4744.53 | 7852.83 |        |
| L12 | 25+81.37 | -4744.53 | 7852.83 | 186.2  |
|     | 25+38.05 | -4699.89 | 7832.70 |        |
|     | 25+30.00 | -4669.88 | 7832.70 |        |
| L13 | 25+30.00 | -4669.88 | 7832.70 | 186.2  |
|     | 28+87.80 | -4466.57 | 7828.71 |        |

| ID  | STATION  | NORTHING | EASTING | RADIUS |
|-----|----------|----------|---------|--------|
| C11 | 28+87.80 | -4466.57 | 7828.71 | 200.0  |
|     | 29+42.06 | -4396.43 | 7807.78 |        |
|     | 31+28.58 | -4306.87 | 7769.11 |        |
| C12 | 31+28.58 | -4306.87 | 7769.11 | 85.4   |
|     | 31+82.32 | -4176.83 | 7762.84 |        |
|     | 32+06.01 | -4134.75 | 7811.75 |        |
| C13 | 32+06.01 | -4134.75 | 7811.75 | 100.0  |
|     | 32+63.87 | -4080.20 | 7819.40 |        |
|     | 35+19.38 | -3827.85 | 7478.40 |        |
| C14 | 35+19.38 | -3827.85 | 7478.40 | 200.0  |
|     | 35+58.18 | -3788.99 | 7478.07 |        |
|     | 35+99.01 | -3878.22 | 7480.16 |        |
| C15 | 35+99.01 | -3878.22 | 7480.16 | 200.0  |
|     | 37+15.73 | -3631.78 | 7478.44 |        |
|     | 37+15.73 | -3631.78 | 7478.44 |        |
| C16 | 37+15.73 | -3631.78 | 7478.44 | 200.0  |
|     | 38+08.68 | -3542.75 | 7468.70 |        |
|     | 38+08.68 | -3542.75 | 7468.70 |        |
| C17 | 38+08.68 | -3542.75 | 7468.70 | 200.0  |
|     | 38+76.80 | -3477.51 | 7433.18 |        |
|     | 38+76.80 | -3477.51 | 7433.18 |        |
| C18 | 38+76.80 | -3477.51 | 7433.18 | 200.0  |
|     | 41+43.25 | -3260.26 | 7294.24 |        |
|     | 42+97.47 | -3180.88 | 7173.28 |        |
| C19 | 42+97.47 | -3180.88 | 7173.28 | 200.0  |
|     | 44+48.47 | -3123.38 | 7027.01 |        |
|     | 44+48.47 | -3123.38 | 7027.01 |        |
| C20 | 44+48.47 | -3123.38 | 7027.01 | 200.0  |
|     | 45+82.40 | -3085.97 | 6930.36 |        |
|     | 48+48.87 | -3002.20 | 6870.84 |        |
| C21 | 48+48.87 | -3002.20 | 6870.84 | 200.0  |
|     | 48+48.87 | -3002.20 | 6870.84 |        |
|     | 47+28.43 | -2934.58 | 6829.44 |        |
| C22 | 47+28.43 | -2934.58 | 6829.44 | 200.0  |
|     | 47+29.43 | -2884.59 | 6839.44 |        |
|     | 50+13.88 | -2687.85 | 6731.74 |        |
| L21 | 50+13.88 | -2687.85 | 6731.74 | 200.0  |
|     | 50+60.39 | -2532.33 | 6720.85 |        |
|     | 50+60.39 | -2532.33 | 6720.85 |        |
| L22 | 50+60.39 | -2532.33 | 6720.85 | 200.0  |
|     | 53+92.84 | -2261.47 | 6683.72 |        |

| REV | DATE      | DESCRIPTION                | APPD | CAUSE |
|-----|-----------|----------------------------|------|-------|
| A   | 10/1/2023 | ISSUED FOR INTERNAL REVIEW | JA   |       |
| B   | 1/30/2023 | ISSUED FOR REVIEW          | JA   |       |

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

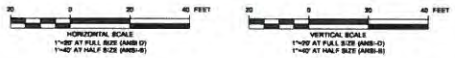
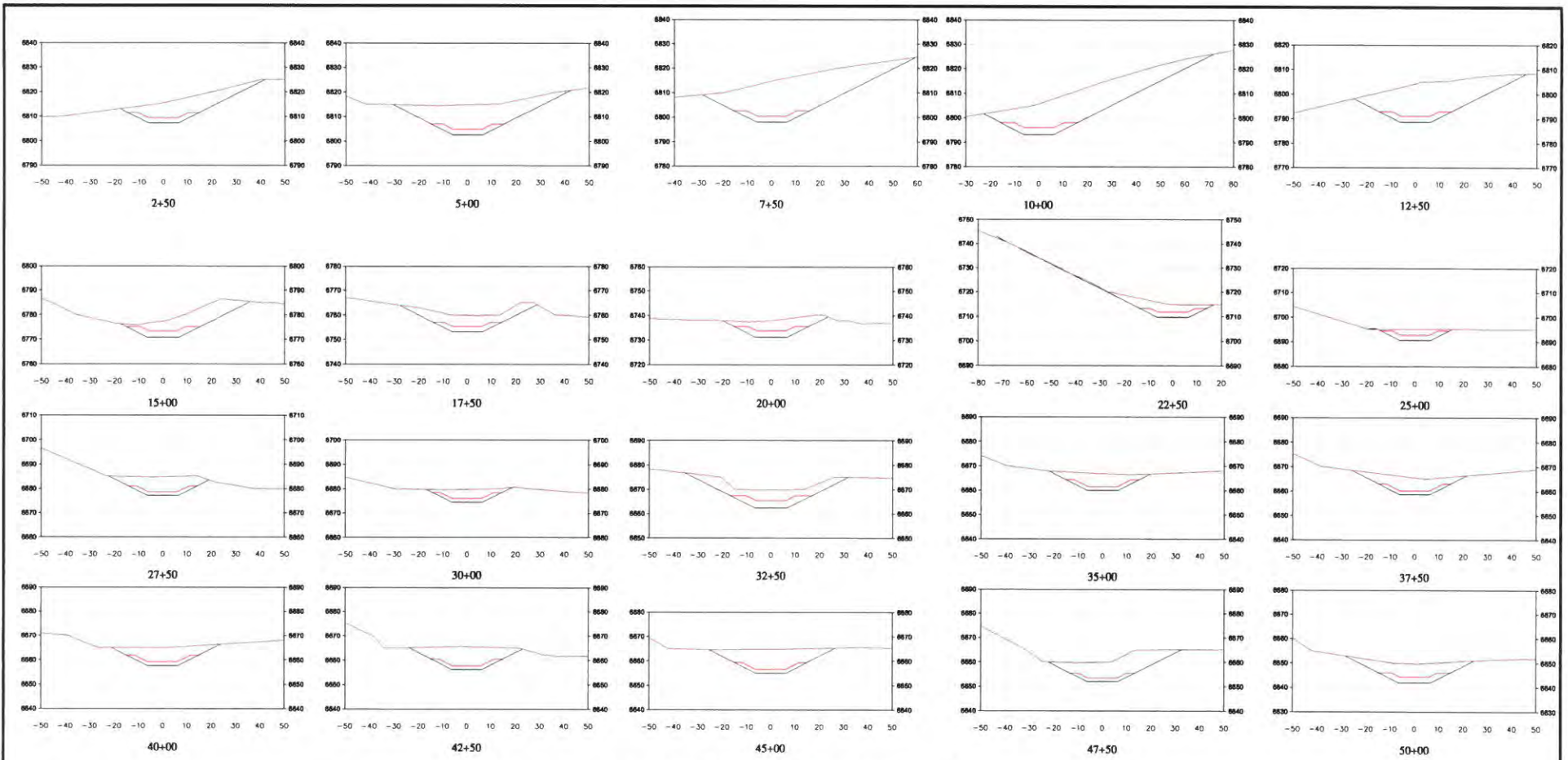


PROJECT: **CHINO DAM 8 WASTE ROCK STOCKPILE**

TITLE: **WEST IMPACTED STORMWATER DIVERSION CHANNEL HORIZONTAL CONTROL DATA**

| DESIGNED BY | CHKD BY | PROJECT NUMBER | DRAWING NUMBER | REVISION |
|-------------|---------|----------------|----------------|----------|
| JA          | JA      | TU101          | 00636.09       | 134      |

LAST DRAWN BY: RIBENKA  
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE  
 DRAWING: WEST IMPACTED STORMWATER DIVERSION CHANNEL  
 PRINTED BY: RICHARD BENKA, PRINT TIME: 11/20/2023 10:03 AM



**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-B) 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.

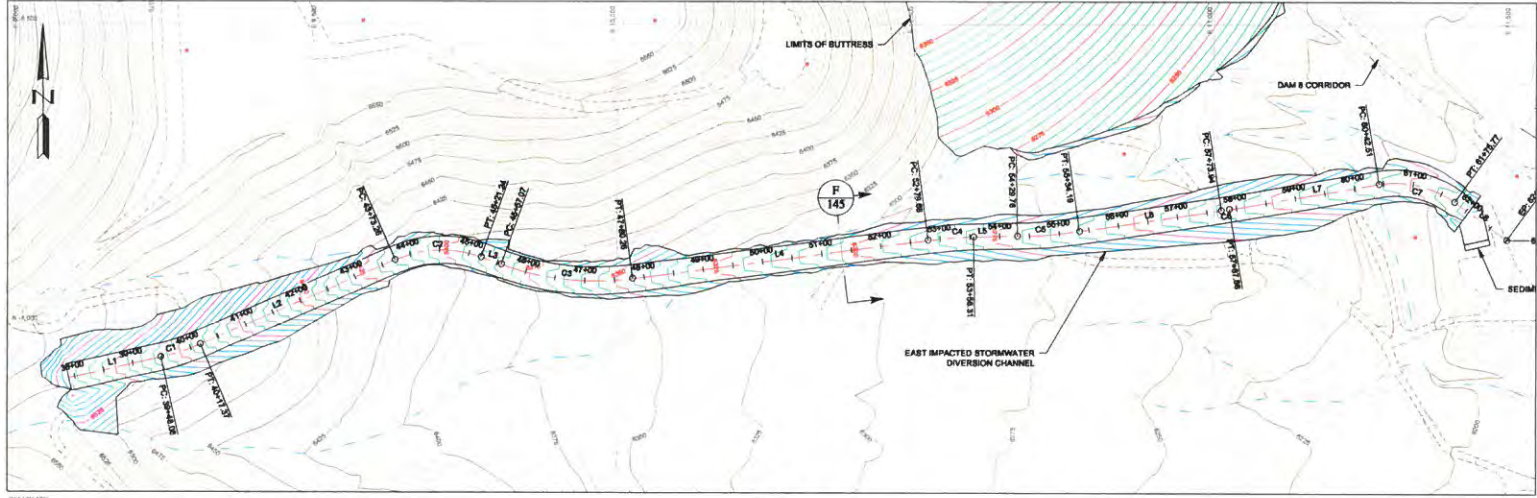
| REV | DATE       | DESCRIPTION                | APP'D | CHECKED |
|-----|------------|----------------------------|-------|---------|
| A   | 10/19/2023 | ISSUED FOR INTERNAL REVIEW | ME    | JA      |
| B   | 11/20/2023 | ISSUED FOR REVIEW          | ME    | JA      |
|     |            |                            |       |         |
|     |            |                            |       |         |

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



|  |                                 |
|--|---------------------------------|
| PROJECT: <b>CHINO DAM 8 WASTE ROCK STOCKPILE</b>         |                                 |
| TITLE: <b>WEST IMPACTED STORMWATER DIVERSION CHANNEL</b> |                                 |
| <b>SECTIONS</b>  |                                 |
| DESIGNED BY: <b>ME</b>                                   | LOCATION: <b>TU101</b>          |
| DRAWN BY: <b>JA</b>                                      | PROJECT NUMBER: <b>00638.09</b> |
| CHECKED BY: <b> </b>                                     | DRAWING NUMBER: <b>135</b>      |
| REVISION: <b>B</b>                                       |                                 |

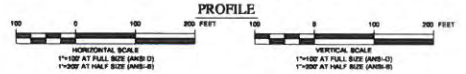
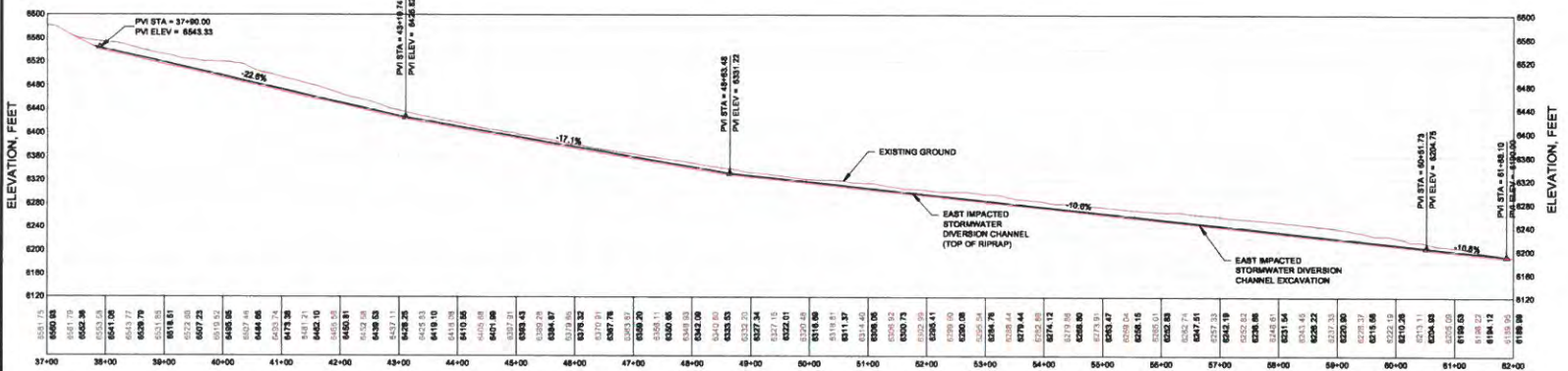


- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR AND EL. FEET
  - PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
  - PROPOSED EXCAVATION SURFACE CONTOUR AND EL. FEET
  - EXISTING DRAINAGE
  - EXISTING ROAD
  - EXISTING POWERPOLES
  - EXISTING BUILDINGS AND INFRASTRUCTURE
  - ELEVATION OF EXISTING GROUND SURFACE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

- 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.



NO. 1718-100-000  
 EXISTING TOPOGRAPHY PROVIDED BY FREEPORT-MCMORAN CHINO MINES COMPANY OR  
 OTHERS AS NOTED ON A REVISION SHEET. PROPOSED PVI AND UNFINISHED GRADE  
 SURVEY (AS NOTED OTHERWISE).  
 COORDINATE SYSTEM: NAD 83 (1983)



| REV | DATE       | DESCRIPTION                | APP'D | CADD |
|-----|------------|----------------------------|-------|------|
| A   | 10/13/2023 | ISSUED FOR INTERNAL REVIEW | JB    | JA   |
| B   | 12/09/2023 | ISSUED FOR REVIEW          | JB    | JA   |

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

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

**Knights Piesold CONSULTING**

| PROJECT                          |                | TITLE   |                          |
|----------------------------------|----------------|---|--------------------------|
| CHINO DAM 8 WASTE ROCK STOCKPILE |                | EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE |                          |
| DESIGNED BY: JB                  | CHECKED BY: JA | PROJECT NUMBER: TU101                                       | DRAWING NUMBER: 00636.09 |
|                                  |                | SCALE: 1"=100'  | REVISION: B              |

LAST SAVE BY: JBR/STW  
 LAST SAVE DATE: 12/09/2023 10:00:00 AM  
 PRINTED BY: JBR/STW  
 PRINT DATE: 12/09/2023 10:00:00 AM  
 FILE: C:\Users\jbr\Documents\Projects\CHINO DAM 8 WASTE ROCK STOCKPILE\CHINO DAM 8 WASTE ROCK STOCKPILE\CHINO DAM 8 WASTE ROCK STOCKPILE.dwg  
 PLOT TIME: 12/09/2023 10:00:00 AM

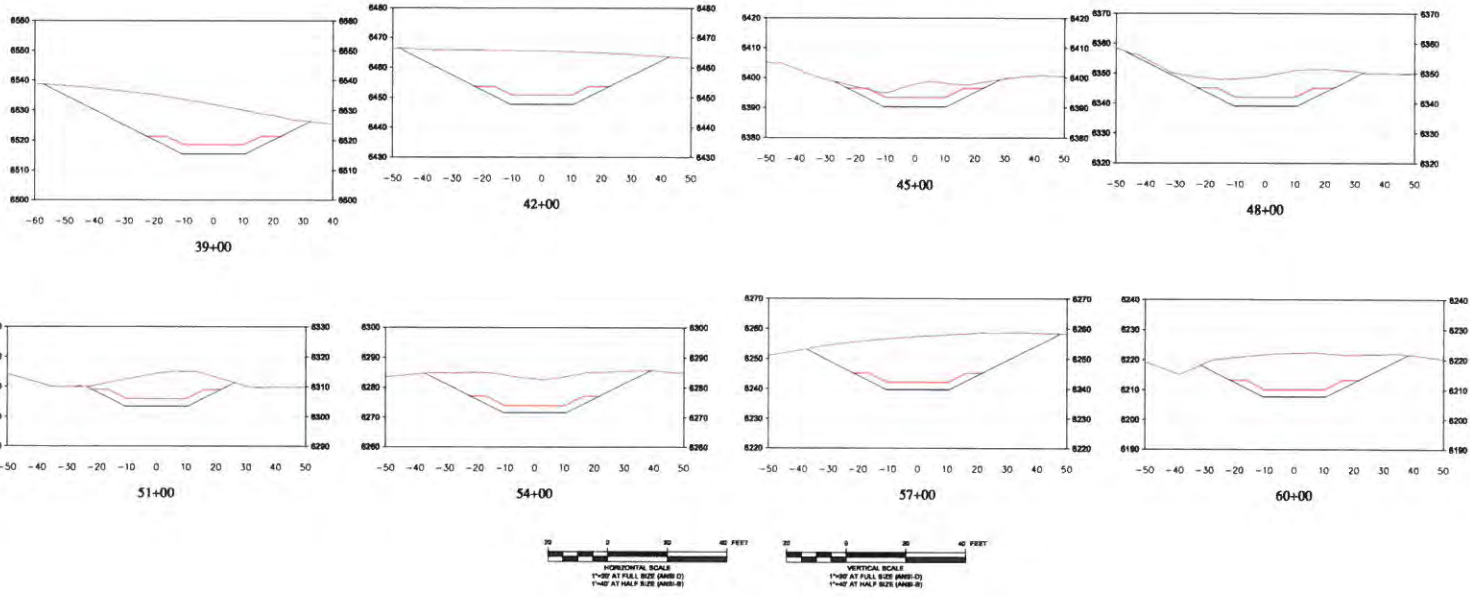
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**TABLE 9  
EAST IMPACTED STORMWATER DIVERSION  
CHANNEL  
HORIZONTAL CONTROL DATA**

| ID | STATION  | NORTHING | EASTING  | RADIUS |          |       |
|----|----------|----------|----------|--------|----------|-------|
| L1 | 37+04.81 | -7052.84 | 8076.80  | 354.1  |          |       |
|    | 38+48.06 | -7057.02 | 8235.78  |        |          |       |
| C1 | 38+48.06 | -7057.02 | 8235.78  |        |          |       |
|    | 40+17.37 | -7055.48 | 8301.53  |        |          |       |
| L2 | 40+17.37 | -7055.48 | 8301.53  |        | 106.0    |       |
|    | 43+73.26 | -6893.21 | 8627.73  |        |          |       |
| C2 | 43+73.26 | -6893.21 | 8627.73  |        |          |       |
|    | 45+21.24 | -6888.37 | 8772.14  |        |          |       |
| L3 | 45+21.24 | -6888.37 | 8772.14  |        |          | 470.1 |
|    | 46+67.07 | -6900.47 | 9003.87  |        |          |       |
| C3 | 46+67.07 | -6900.47 | 9003.87  |        |          |       |
|    | 47+80.26 | -6924.06 | 10023.70 |        |          |       |
| L4 | 47+80.26 | -6924.06 | 10023.70 | 874.9  |          |       |
|    | 52+79.88 | -6859.07 | 10520.88 |        |          |       |
| C4 | 52+79.88 | -6859.07 | 10520.88 |        |          |       |
|    | 53+05.31 | -6863.44 | 10597.28 |        |          |       |
| L5 | 53+05.31 | -6863.44 | 10597.28 |        | 806.6    |       |
|    | 54+29.76 | -6862.24 | 10670.70 |        |          |       |
| C5 | 54+29.76 | -6862.24 | 10670.70 |        |          |       |
|    | 55+34.19 | -6843.77 | 10774.71 |        |          |       |
| L6 | 55+34.19 | -6843.77 | 10774.71 |        |          | 812.2 |
|    | 57+73.84 | -6808.91 | 11011.92 |        |          |       |
| C6 | 57+73.84 | -6808.91 | 11011.92 |        |          |       |
|    | 57+87.86 | -6806.73 | 11028.87 |        |          |       |
| L7 | 57+87.86 | -6806.73 | 11028.87 | 186.9  |          |       |
|    | 60+42.61 | -6763.06 | 11278.70 |        |          |       |
| C7 | 60+42.61 | -6763.06 | 11278.70 |        |          |       |
|    | 61+76.77 | -6793.83 | 11403.01 |        |          |       |
| L8 | 61+76.77 | -6793.83 | 11403.01 |        | 11490.34 |       |
|    | 62+63.82 | -6867.27 | 11490.34 |        |          |       |

|             |            |                            |   |                |             |          |                |                |          |          |    |       |          |     |   |   |  |   |
|-------------|------------|----------------------------|---|----------------|-------------|----------|----------------|----------------|----------|----------|----|-------|----------|-----|---|---|--|---|
| REV         | DATE       | DESCRIPTION                | APPROVED  | DATE           | DECLARATION | CLIENT   | PROJECT        |                |          |          |    |       |          |     |   |   |  |   |
| A           | 18/11/2023 | ISSUED FOR INTERNAL REVIEW | <table border="1"> <tr> <td>DESIGNED BY</td> <td>HE</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> | DESIGNED BY    | HE          | LOCATION | PROJECT NUMBER | DRAWING NUMBER | REVISION | DRAWN BY | JA | TU101 | 00636.09 | 137 | B | KNIGHT PÍESOLD AND CO. PRODUCED THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIER 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 PÍESOLD AND CO. | FREEPORT-MCMORAN CHINO MINES COMPANY   | CHINO DAM 8 WASTE ROCK STOCKPILE  |
| DESIGNED BY | HE         | LOCATION                   | PROJECT NUMBER  | DRAWING NUMBER | REVISION    |          |                |                |          |          |    |       |          |     |   |   |  |   |
| DRAWN BY    | JA         | TU101                      | 00636.09  | 137            | B           |          |                |                |          |          |    |       |          |     |   |   |  |   |
| B           | 19/09/2023 | ISSUED FOR REVIEW          | <table border="1"> <tr> <td>DESIGNED BY</td> <td>HE</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> | DESIGNED BY    | HE          | LOCATION | PROJECT NUMBER | DRAWING NUMBER | REVISION | DRAWN BY | JA | TU101 | 00636.09 | 137 | B | KNIGHT PÍESOLD AND CO. PRODUCED THE DATA SHOWN HEREON USING BOTH TECHNICAL INFORMATION AND METHODS. RECEIPT OF THIS DRAWING DOES NOT IMPART TO THE RECIPIER 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 PÍESOLD AND CO. |  <b>KNIGHT PÍESOLD CONSULTING</b> | <b>EAST IMPACTED STORMWATER DIVERSION<br/>CHANNEL HORIZONTAL CONTROL DATA</b> |
| DESIGNED BY | HE         | LOCATION                   | PROJECT NUMBER  | DRAWING NUMBER | REVISION    |          |                |                |          |          |    |       |          |     |   |   |  |   |
| DRAWN BY    | JA         | TU101                      | 00636.09  | 137            | B           |          |                |                |          |          |    |       |          |     |   |   |  |   |

LAST SAVED BY: JRS/MLA  
 PROJECT: CHINO DAM 8 WASTE ROCK STOCKPILE  
 DRAWING: EAST IMPACTED STORMWATER DIVERSION CHANNEL PLAN AND PROFILE  
 PRINTED BY: MICHAEL BECKA, PRINT TIME: 12/20/2023 9:04 AM



**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-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                  | APP'D |
|-----|------------|------------------------------|-------|
| A   | 10/19/2023 | REQUIRED FOR INTERNAL REVIEW | MS    |
| B   | 12/02/2023 | REQUIRED FOR REVIEW          | MS    |
|     |            |                              | JA    |
|     |            |                              | JA    |

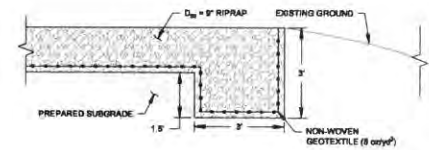
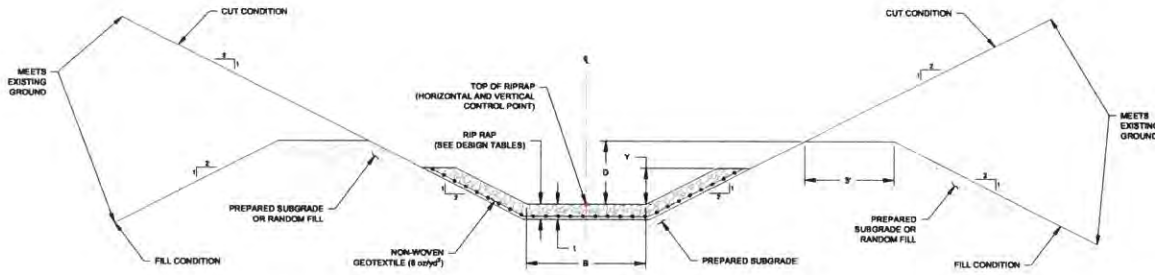
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 FREEPORT-MCMORAN CHINO MINES COMPANY

**KNIGHT PIESOLD CONSULTING**

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





F
F
F
  
 132 133 136

**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 I (ft) |
| 09+00 TO 11+00                             | 12                  | 2.0               | 3.5                          | 8               | 18                      |
| 11+00 TO 11+08                             | TRANSITION          |                   |                              |                 |                         |
| 11+08 TO 13+87                             | 12                  | 2.0               | 3.0                          | 8               | 18                      |
| 13+87 TO 13+72                             | TRANSITION          |                   |                              |                 |                         |
| 13+72 TO 15+08                             | 12                  | 1.8               | 2.5                          | 12              | 24                      |
| 15+08 TO 15+11                             | TRANSITION          |                   |                              |                 |                         |
| 15+11 TO 15+88                             | 12                  | 1.7               | 2.7                          | 12              | 24                      |
| 15+88 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+96                             | TRANSITION          |                   |                              |                 |                         |
| 18+96 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               | 3.8                          | 8               | 18                      |
| 31+01 TO 31+08                             | TRANSITION          |                   |                              |                 |                         |
| 31+08 TO 32+94                             | 12                  | 2.1               | 3.1                          | 18              | 30                      |
| 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 49+39                             | 12                  | 2.2               | 3.2                          | 9               | 18                      |
| 49+39 TO 49+44                             | TRANSITION          |                   |                              |                 |                         |
| 49+44 TO 51+00                             | 12                  | 1.8               | 2.8                          | 12              | 24                      |
| 51+00 TO 51+08                             | TRANSITION          |                   |                              |                 |                         |
| 51+08 TO 52+00                             | 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 I (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               | 2.8                          | 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

DATE PLOTTED: 11/11/2022 10:41 AM  
 PLOTTED BY: RICHARD BENKA  
 PRINTED BY: RICHARD BENKA  
 PRINT TIME: 11/20/2022 10:41 AM

| REV | DATE       | DESCRIPTION                | APP'D | DATE |
|-----|------------|----------------------------|-------|------|
| A   | 10/18/2022 | ISSUED FOR INTERNAL REVIEW | MS    | JA   |
| B   | 12/09/2022 | ISSUED FOR REVIEW          | MS    | JA   |

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**CLIENT**  
 FREEPORT-MCMORAN CHINO MINES COMPANY

**KNIGHT PIERCE AND OLLI**  
 CONSULTING

| PROJECT                                       |     |          |                |                |
|---|-----|----------|----------------|----------------|
| CHINO DAM B WASTE ROCK STOCKPILE              |     |          |                |                |
| TITLE   |     |          |                |                |
| IMPACTED STORMWATER DIVERSION CHANNEL DETAILS |     |          |                |                |
| DESIGNED BY                                   | ISS | LOCATION | PROJECT NUMBER | DRAWING NUMBER |
| MS  | JA  | TU101    | 00636.09       | 145            |
| REVISION                                      |     |          |                |                |
| 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<br>THIS FEE IS NEEDED FOR A MODIF | \$1,000.00     |                 | \$1,000.00 |
| <b>TOTAL</b> |                |  |                |                 | \$1,000.00 |

PLEASE FOLD ON PERFORATION AND DETACH HERE

VERIFY THE AUTHENTICITY OF THIS MULTI-TONE SECURITY DOCUMENT.

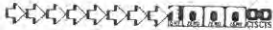
CHECK BACKGROUND AREA CHANGES COLOR GRADUALLY FROM TOP TO BOTTOM

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

⑈0001040481⑈ ⑆061112788⑆ 3299998445⑈