1. ONLY THOSE SOIL BORING, MONITORING WELLS, PIEZOMETERS, AND TEST PITS LOCATED WITHIN THE AREA OF THE WORK, OR THAT ARE APPLICABLE TO THE WORK, ARE SHOWN.

2. EMBANKMENT DESIGN CONTOURS INDICATE TOP OF PHASE 1 SURFACES AT ELEVATION 4218 AMSL.

3. INITIAL SURVEY WAS CONDUCTED BY NM GROUP, FEB 12, 2015. AN UPDATE SURVEY WAS CONDUCTED BY RBB, MARCH 27, 2019, ALONG THE NORTHWEST CURRENT WASTE POND NORTHERN DIKE.

4. REFER TO C009 FOR CONTROL POINT TABLE.

5. REFER TO TABLE ON SHEET C010 FOR EMBANKMENT STATIONING DESCRIPTION.

6. EXTENT OF EMBANKMENT REQUIRED THROUGH BORROW AREA WEST OF STA 0+00 WILL BE FINALIZED AS PART OF PHASE II.

7. EXISTING EMBANKMENT BETWEEN STAS 0+00 AND 30+00 WILL BE REPAIRED TO ACHIEVE 4:1 AND 3:1 SLOPES ON THE UPSTREAM AND DOWNSTREAM SIDES DURING PHASE III FOLLOWING CONSTRUCTION OF THE SLURRY WALL (REFER TO SHEET C003).

NOTES:
NOTES:

1. PHASE 1 EMBANKMENT TO BE CONSTRUCTED TO ELEV 4218' AMSL AS INDICATED.

2. EMBANKMENT TO BE CONSTRUCTED OF MATERIALS MEETING SPECIFICATIONS FOR EMBANKMENT FILL, PER SPECIFICATION 02222-EARTHWORKS.

3. REFER TO SHEET C009 FOR CONTROL POINTS AND STATIONING AND DESCRIPTION OF FOUNDATION PREPARATION.

4. FOUNDATION PREPARATION TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION 02222-EARTHWORKS.

5. REFER TO SHEET C009 FOR TYPICAL EMBANKMENT DETAILS.

6. EXISTING EMBANKMENT BETWEEN STAS 0+00 AND 30+00 WILL BE REPAIRED TO ACHIEVE 4:1 AND 3:1 SLOPES ON THE UPSTREAM AND DOWNSTREAM SIDES DURING PHASE III FOLLOWING CONSTRUCTION OF THE SLURRY WALL (REFER TO SHEET C002).
LEGEND:

- AMSL: Above Mean Sea Level
- BGS: Below Ground Surface
- ELEV: Elevation
- OWP: Old Waste Pond

NOTES:
1. Phase 1 embankment to be constructed to ELEV 4218' AMSL
2. Embankment to be constructed of materials meeting specifications for embankment fill, per Specification 02222-EARTHWORKS.
3. Refer to Sheet C009 for control points and stationing and description of foundation preparation.
4. Foundation preparation to be performed in accordance with Specification 02222-EARTHWORKS.
5. Refer to Sheet C010 for typical embankment details.
LEGEND:

- AMSL: ABOVE MEAN SEA LEVEL
- BGS: BELOW GROUND SURFACE
- ELEV: ELEVATION
- OWP: OLD WASTE POND
- SVDD: SKULL VALLEY DIVERSION DITCH

NOTES:

1. PHASE 1 EMBANKMENT TO BE CONSTRUCTED TO ELEV 4218' AMSL AS INDICATED.
2. EMBANKMENT TO BE CONSTRUCTED OF MATERIALS MEETING SPECIFICATIONS FOR EMBANKMENT FILL PER SPECIFICATION 02222-EARTHWORKS.
3. REFER TO SHEET C009 FOR CONTROL POINTS AND STATIONING AND DESCRIPTION OF FOUNDATION PREPARATION.
4. FOUNDATION PREPARATION TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION 02222-EARTHWORKS.
5. REFER TO SHEET C010 FOR TYPICAL EMBANKMENT DETAILS.
PHASE 1 DESIGN EL. 4218' AMSL

LEGEND:

AMSL  ABOVE MEAN SEA LEVEL
BGS  BELOW GROUND SURFACE
ELEV  ELEVATION
OWP  OLD WASTE POND
SVDD  SKULL VALLEY DIVERSION DITCH

NOTES:

1. PHASE 1 EMBANKMENT TO BE CONSTRUCTED TO ELEV 4218' AMSL AS INDICATED.
2. EMBANKMENT TO BE CONSTRUCTED OF MATERIALS MEETING SPECIFICATIONS FOR EMBANKMENT FILL, PER SPECIFICATION 02222-EARTHWORKS.
3. REFER TO SHEET C009 FOR CONTROL POINTS AND STATIONING AND DESCRIPTION OF FOUNDATION PREPARATION.
4. FOUNDATION PREPARATION TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION 02222-EARTHWORKS.
5. REFER TO SHEET C010 FOR TYPICAL EMBANKMENT DETAILS.
PHASE 1 DESIGN EL. 4218' AMSL

NOTES:

1. PHASE 1 EMBANKMENT TO BE CONSTRUCTED TO ELEV 4218' AMSL AS INDICATED.
2. EMBANKMENT TO BE CONSTRUCTED OF MATERIALS MEETING SPECIFICATIONS FOR EMBANKMENT FILL, PER SPECIFICATION 02222-EARTHWORKS.
3. REFER TO SHEET C009 FOR CONTROL POINTS AND STATIONING AND DESCRIPTION OF FOUNDATION PREPARATION.
4. FOUNDATION PREPARATION AND BACKFILLING OF SVDD TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION 02222-EARTHWORKS.
5. REFER TO SHEET C010 FOR TYPICAL EMBANKMENT DETAILS.
PHASE 1 DESIGN

A 45° RADIUS TURNING DETAIL

CONTOUR INTERVAL = 2 FOOT

B 125° RADIUS TURNING DETAIL

CONTOUR INTERVAL = 2 FOOT

PHASE 1 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN

US MAGNESIUM
GRANTSVILLE, UTAH

4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

TURNING RADIUS DETAIL

Mark Date Description

Checked By:
Drawn By:
Project No.:
Designed By:

www.tetratech.com
1/15/23 2:55 PM - C:\_R-DRIVE_\T-Z\US MAGNESIUM LLC\117-8733003 - CQA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 1\IFC REV0-RWP-C008 ROAD TURNING DETAILS.DWG

Copyright Tetra Tech

1 2-24-22
UPDATED DIKE DESIGN TO ADD MIXING PAD

Bar Measures 1 inch

0
50
100

CONTOUR INTERVAL = SCALE IN FEET
2 FOOT
WALL SEGMENT

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<tr>
<th>WALL SEGMENT</th>
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<td>NORTHWEST CHIP</td>
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<tr>
<td>SOUTHEAST CHIP</td>
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EMBANKMENT CONTROL POINT TABLE

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PHASE 1 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN

US MAGNESIUM
GRANTSVILLE, UTAH

4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

1 2-24-22
UPDATED DIKE DESIGN TO ADD MIXING PAD

TETRA TECH
www.tetratech.com
LEGEND:

- AMSL: Above Mean Sea Level
- BGS: Below Ground Surface
- ELEV: Elevation
- HBW: Hydraulic Barrier Wall
- HWP: Hydraulic Barrier Wall
- MIN: Minimum
- DW: Old Waste Pond
- STA: Station

NOTES:

1. Construction of embankment is not required from STA 0+00 to STA 40+00.
2. Location, width and depth of future HBW is shown as approximate. Design of HBW to be completed as part of Phase 2.
3. Refer to sheets C003 through C007 and C009 for limits of foundation preparation including overexcavation, compacting, and recompression.
4. Embankment details shown are typical. Refer to sheet C003 through C007 for cross sections. Refer to sheet C010 for typical embankment details.

TYPICAL EMBANKMENT DETAIL

1. STA 45+00 TO STA 95+00

2. STA 95+00 TO STA 183+48

3. STA 183+48 TO STA 253+36

COMPRESSOR ACCESS ROAD

(TO BE USED AS MIXING PAD)