

BAT GATE SECTION



Feature G27 Adit



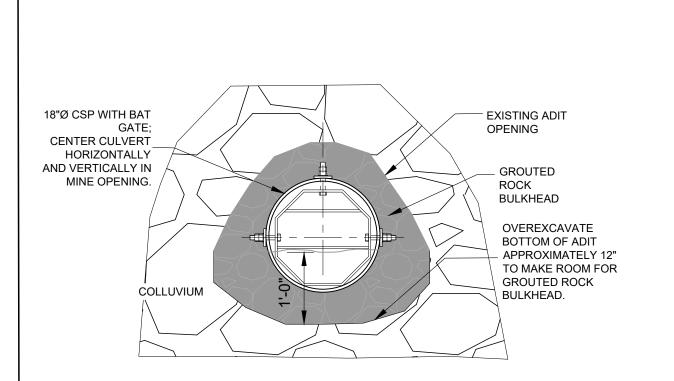
Feature G26 Adit

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- THE SHAPE AND DIMENSIONS SHOWN FOR THE ADIT OPENING ARE APPROXIMATE, AND ARE SHOWN FOR FEATURE G26 SPECIFICALLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION. APPROXIMATE DIMENSIONS OF THE ADITS G26 AND G27 ARE 3' WIDE X 1.5'
- THE ADIT IS LOCATED WITHIN AN ARROYO BANK. WEAKLY CEMENTED COLLUVIUM CONSISTING OF SILT, GRAVEL, AND COBBLES FORMS THE BACK AND RIBS OF THE ADIT. USE CAUTION TO NOT DISTURB THE BACK OR RIBS OF THE ADIT. DO NOT REMOVE ROCK FROM THE GROUND SURFACE ABOVE THE ADIT OR FROM THE BACK OR RIBS INSIDE OF THE ADIT UNLESS APPROVED BY THE PROJECT MANAGER OR PROJECT ENGINEER
- OVEREXCAVATE BOTTOM OF ADIT APPROXIMATELY 12 INCHES TO MAKE ROOM FOR BULKHEAD. EXCAVATE BEYOND END OF CULVERT TO MAKE ROOM FOR BAT FLIGHT. CULVERT SHALL BE CENTERED IN EXCAVATED OPENING.
- STEEL PLATES AND SHAPES FOR THE BAT GATE ASSEMBLY SHALL BE WEATHERING STEEL AS SPECIFIED. WELD ALL JOINTS. PLATES FOR BOLTS, BOLTS AND NUTS SHALL BE WEATHERING OR STAINLESS STEEL. DOUBLE-NUT ALL BOLTS. ROUND OR CHAMFER ALL EXPOSED EDGES AND CORNERS. CONSTRUCT THE BAT GATE TO ELIMINATE SURFACES ON WHICH MOISTURE OR DEBRIS CAN BE TRAPPED.
- GROUTED ROCK BULKHEAD SHALL BE CONSTRUCTED FROM NON-SHRINK GROUT AND SOUND, DURABLE NATIVE ROCK FROM THE VICINITY OF THE FEATURE AS LARGE AS PRACTICABLE AND NO SMALLER THAN 6" IN LEAST DIMENSION; HOWEVER, ROCK APPROXIMATELY 2" IN SIZE MAY BE USED ON BULKHEAD ON TOP OF ADIT DUE TO SPACE RESTRICTIONS. PLACE ROCK BULKHEAD AS SHOWN AND ACROSS FULL HEIGHT AND WIDTH OF ADIT OPENING. DO NOT BLOCK THE CSP OPENING.
- GROUT SHALL BE QUIKRETE NON-SHRINK GROUT, OR APPROVED EQUIVALENT. GROUT SHALL BE MIXED TO FLOWABLE CONSISTENCY FOR FILLING IN OUTER GAPS OF BAT GATE, AND TO PLASTIC CONSISTENCY FOR CONSTRUCTION OF BULKHEAD. GROUT SHALL BE MIXED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- PAINT VISIBLE PORTIONS OF CSP (INSIDE AND OUTSIDE) WITH NATINA STAIN OR APPROVED EQUIVALENT FOR CAMOUFLAGE. COLOR SHOULD BLEND IN WITH THE BULKHEAD AS DIRECTED BY THE PROJECT MANAGER.
- INSTALL SURVEY MARKER INTO GROUT OR ADJACENT COMPETENT ROCK AS

FILE: CUIVBUIKG26&27 SAN PEDRO MINE SAFEGUARD PROJECT, PH. III FIGURE: 4

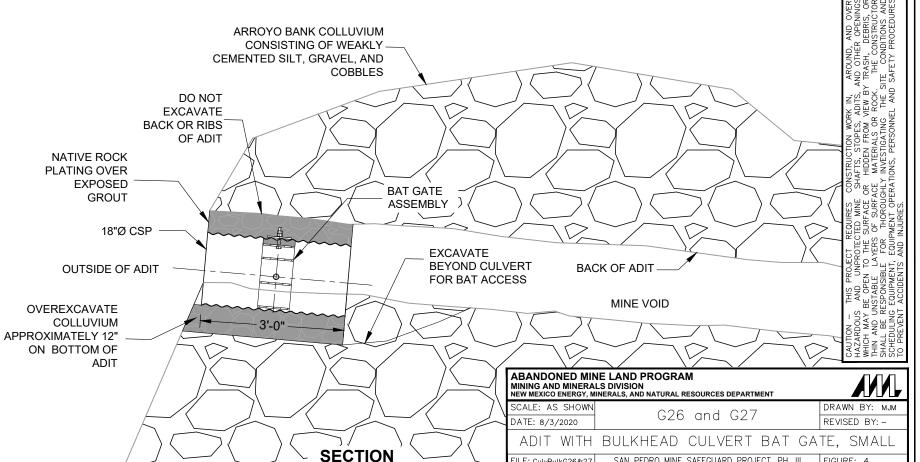


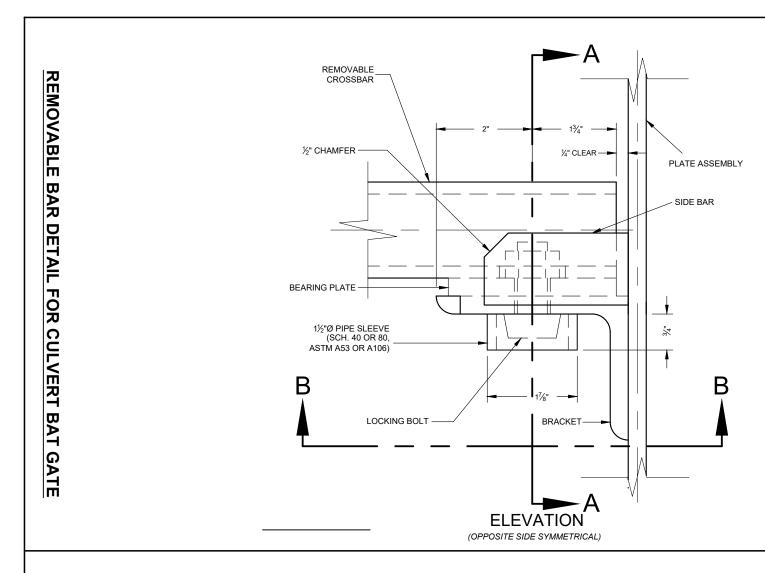
FRONT VIEW

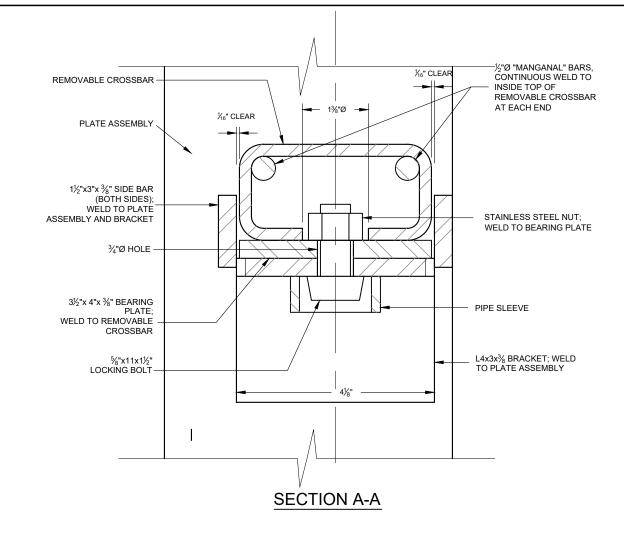
SCALE: 3/4" = 1'-0"

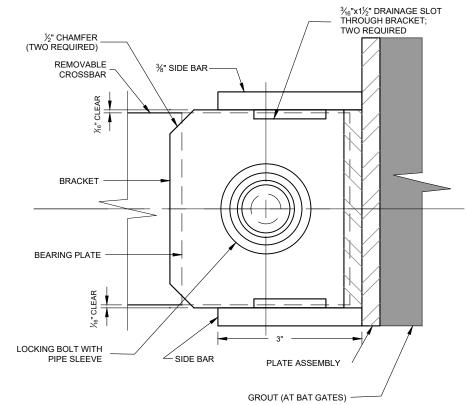
BAT GATE ELEVATION

SCALE: 1" = 1'-0"









SECTION B-B

(BOTTOM VIEW)

GENERAL NOTES:

OTHERWISE INDICATED. CONSTRUCT THE LOCK TO ELIMINATE SURFACES ON WHICH MOISTURE OR DEBRIS CAN BE TRAPPED. JOINTS SHALL BE TIGHT SO THAT MOISTURE CANNOT ENTER BETWEEN THE PLIES OF MATERIAL. ROUND OR CHAMFER ALL EXPOSED SHARP CORNERS AND EDGES.

1. STEEL PLATES AND SHAPES SHALL BE WEATHERING STEEL. WELD ALL JOINTS, EXCEPT AS

- 2. "MANGANAL" BARS SHALL BE HIGH MANGANESE STEEL WITH 12% TO 14% MANGANESE. EACH BAR SHALL EXTEND THE FULL LENGTH OF EACH REMOVABLE CROSSBAR.
- 3. ALONG THE BOTTOM OF EACH REMOVABLE CROSSBAR, DRILL $\mbox{\ensuremath{\%}}{}^{\prime\prime}$ DIAMETER HOLES AT 1'-0" O.C.
- 4. THE CONTRACTOR SHALL PROVIDE THE NUTS (% 0 11 UNC CLASS 2A THREAD). THE PROJECT MANAGER WILL SUPPLY THE LOCKING BOLTS.
- $5.\,$ COAT THE THREADS OF THE LOCKING BOLTS WITH LPS1 LUBRICANT AND INSTALL FIRMLY WITH 50 TO 75 POUNDS OF TORQUE.

CAUTION — THIS PROJECT REQUIRES CONSTRUCTION WORK IN, AROUND, AND OVER HAZARDOUS AND UNPROTECTED MINE SHAFTS, STOPES, ADITS, AND OTHER OPENINGS WHICH MAY BE OPEN TO THE SURFACE OR HIDDEN FROM VIEW BY TRASH, DEBRIS, OR THIN AND UNSTABLE LAYERS OF SURFACE MATERIALS OR ROCK. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR THOROUGHLY INVESTIGATING THE SITE CONDITIONS AND SCHEDULING EQUIPMENT, EQUIPMENT OPERATIONS, PERSONNEL AND SAFETY PROCEDURES TO PREVENT ACCIDENTS AND INJURIES.

ABANDONED MINE LAND PROGRAM
MINING AND MINERALS DIVISION
NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT

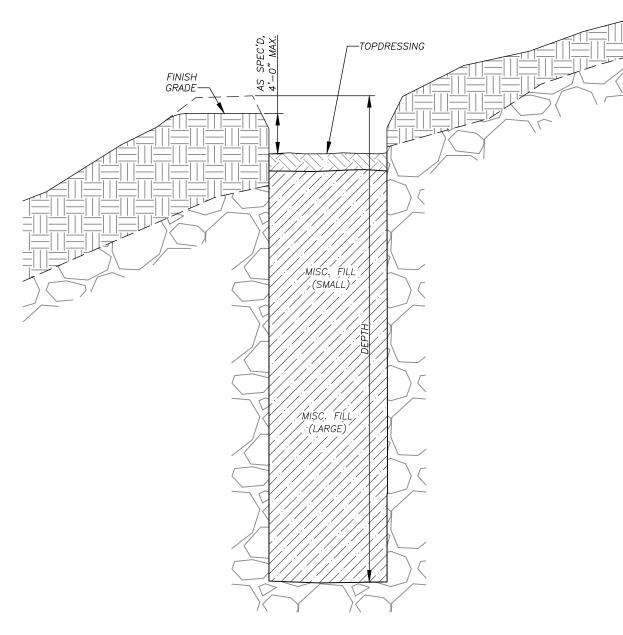
SCALE: 6"=1'-0"
DATE: 7/2/2020

VARIOUS LOCATIONS

REVISED BY: MJM

REMOVABLE CROSSBAR LOCK DETAIL

FILE: RemovCross.dwg
SAN PEDRO MINE SAFEGUARD PROJECT, PH. III FIGURE: 5



<u>DEPRESSED BACKFILL DESIGN</u>
(TYPICAL SECTION)

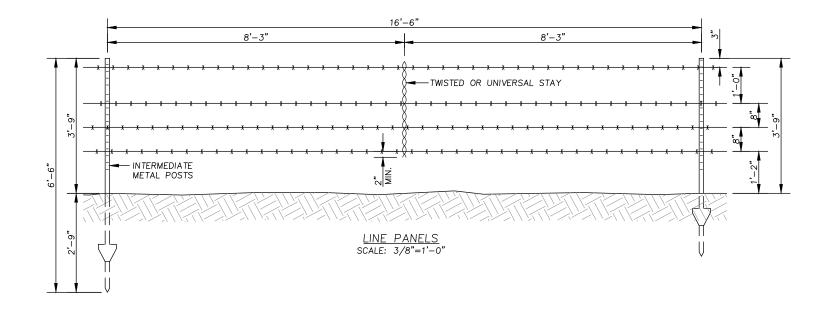
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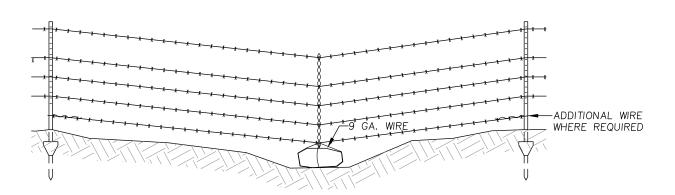
GENERAL NOTES:

- 1. THE FILL AT AND ABOVE DRIFT LEVELS SHALL CONSIST OF THE COARSEST MATERIAL AVAILABLE. SMALLER MATERIAL MAY BE USED ELSEWHERE. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. AS PRACTICABLE, SHAPE THE REMAINING MINE WASTE MATERIAL TO RESEMBLE AN UNDISTURBED MINE WASTE PILE.
- 3. THE LENGTH AND WIDTH OF THE TOP OF THE MOUND SHALL BE EQUAL TO OR GREATER THAN THE INTERNAL SHAFT LENGTH AND WIDTH RESPECTIVELY.

| ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT | | |
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| SCALE: NOT TO SCALE | VARIOUS LOCATIONS | DRAWN BY: JAK |
| DATE: 8/3/2020 | VARIOUS LOCATIONS | REVISED BY: MJM |
| | SHAFT BACKFILL DESIGN | |
| FILE: ShaftBackfill.dwg | SAN PEDRO SAFEGUARDING PROJECT, PH. III | FIGURE: 6 |



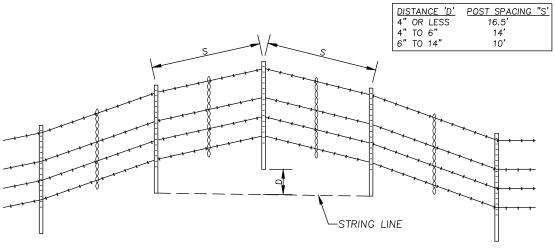




PANEL AT MINOR DEPRESSION

NOT TO SCALE

NOTE: ADD ADDITIONAL WIRE AND A ROCK DEADMAN (MINIMUM WEIGHT 50 LBS.) WHEN SPACE BETWEEN BOTTOM WIRE AND GROUND EXCEEDS 20 INCHES.



ISOMETRIC VIEW -- CONTOUR FENCING
NOT TO SCALE

NOTES ON CONTOUR FENCING:

- 1. CONTOUR FENCING MAY BE USED WHERE A CURVED FENCE LINE IS DESIRABLE, WITH THE CONCURRENCE OF THE PROJECT MANAGER. PLACE THE WIRES ON THE OUTSIDE OF THE POSTS ON CURVE SO THAT, WHEN THE WIRE IS STRETCHED, IT WILL PULL AGAINST THE POSTS AND NOT AGAINST THE TIFS
- 2. SET POSTS FOR CONTOUR FENCING LEANING OUT A FEW INCHES; POSTS SHALL STRAIGHTEN TO A PLUMB POSITION WHEN WIRE IS STRETCHED. STRETCH TO MODERATE TENSION FOR A CURVED FENCE; THE SHARPER THE CURVE, THE LESS TENSION IS NEEDED.
- 3. USE CLAMPS PROVIDED BY THE MANUFACTURER TO ATTACH METAL POSTS TO PANELS AND BRACES. INSTALL BRACE PANELS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. PREFABRICATED PANELS AND BRACES SHALL BE 'EASY FENCE' BY D-C INDUSTRIES OR EQUIVALENT.
- 4. RUN FENCE IN STRAIGHT LINES BETWEEN END AND CORNER POSTS, EXCEPT WHERE CONTOUR FENCING IS USED.
- 5. AVOID ACUTE ANGLES (LESS THAN 90°) AT FENCE CORNERS.

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|----------------------|---|-----------------|
| SCALE: AS SHOWN | VARIOUS LOCATIONS | DRAWN BY: JAK |
| DATE: 8/3/2020 | VARIOUS LOCATIONS | REVISED BY: MJM |
| | BARBED WIRE FENCE | |
| FILE: BarbedWire.dwg | SAN PEDRO MINE SAFEGUARD PROJECT, PH. III | FIGURE: 7 |

| TIE-DOWN; TWO REQUIRED AT EACH CORNER | |
|--|---|
| PREFABRICATED | |
| BRACE METAL POSTS METAL BRACE CONCRET PANEL S CONCRET 6" AROU | TE AT CORNER UPPORT POSTS; TE SHALL EXTEND ND SIDES OF ID 3" BELOW POST |
| END OR CORNER PANEL | |

SCALE: 3/8"=1'-0"