



Canyon Fuel
Company, LLC.
Skyline Mine

A Subsidiary of Arch Western Bituminous Group, LLC.

Gregg Galecki, Environ. Engineer
HCR 35, Box 380
Helper, UT 84526
(435) 448-2636 - Office
(435) 448-2632 - Fax

December 22, 2011

Mr. Daron R. Haddock
Coal Program Manager
Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, Utah 84114-5801

Received via Electronic Submission

December 28, 2011

Division of Oil, Gas & Mining

RE: Winter Quarters As-built modifications, Canyon Fuel Company, LLC, Skyline Mine, C/007/005,

Dear Daron:

Attached to this letter are modifications to the following four (4) plates located at the Winter Quarters Ventilation Facility: Plate 3.2.4-3A – Winter Quarters Ventilation Pad Facilities As-built Plan, Plate 3.2.4-3C – Operational Surface Cross Sections, Plate 3.2.4-3D – Sedimentation Pond Plan, Sections and Details, and 3.2.4-3E – Winter Quarters Ventilation Pad Road and Drainage Details. The plate modifications are being submitted for incorporation into the M&RP to illustrate both as-built modifications to the construction designs and identify additional temporary modifications to the pad during construction.

The proposed modifications to Plate 2.3.4-3A include as-built modifications to the pad, sedimentation pond, topsoil pile, and other minor modifications as they relate to the actual construction of the site. Temporary features necessary for the construction of the slope are also identified on the plate. Plates 3.2.4-3C, 3.2.4-3D, and 3.2.4-3E provide detailed as-built modifications as identified in the revision block of the respective drawings.

Submitted electronically to the Division WebDav website in Adobe Acrobat format are the following files:

- This cover letter
- Plates 3.2.4-3A, 3.2.4-3C, 3.2.4-3D, and 3.2.4-3E
- Winter Quarters Pond certification (page 3-20)
- Blank page insert for pages 3-21 through 3-22
- C1 and C2 forms

Two (2) copies of certified plates will be supplied upon final approval of the application.

If you have any questions regarding this information, please give me a call at (435) 448-2636.

Sincerely:

Gregg A. Galecki
Canyon Fuel Company, LLC.
Environmental Engineer – Skyline Mines

Skyline Mine
Winter Quarters Ventilation Pad
Sediment Pond

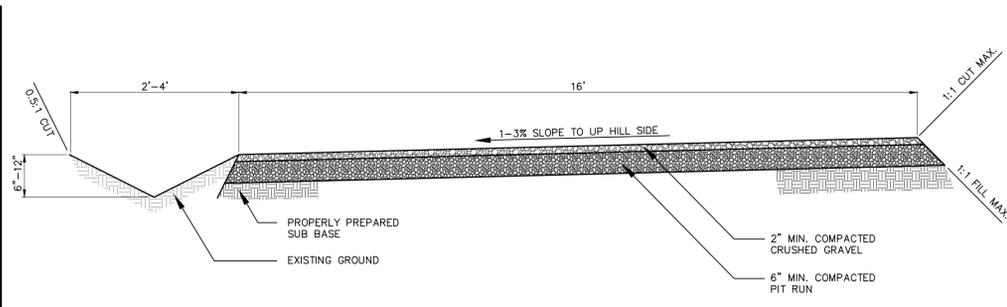
I certify that the sediment pond at the Skyline Mine – Winter Quarters Ventilation Pad was constructed under the supervision of a registered, professional engineer. It was constructed in a prudent manner and field-fit to meet design specifications.

The final construction of the sediment pond adequately accommodates the designed storm and sediment capacity.

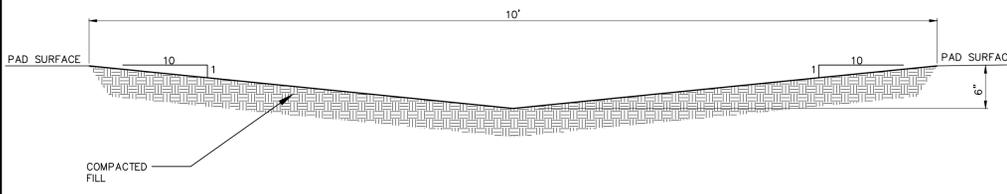
Carl W. Winters 12/22/11
Carl W. Winters Date



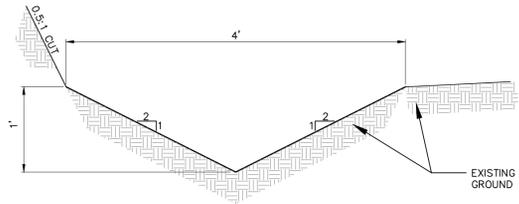
**Pages 3-21 through 3-22
Are left Intentionally Blank**



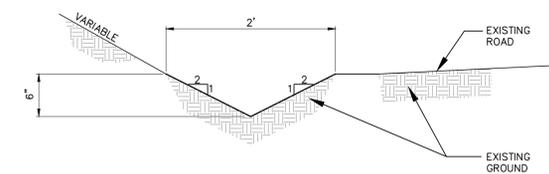
TYPICAL ACCESS ROAD CROSS SECTION (1/5)
SCALE: 1" = 2'-0"



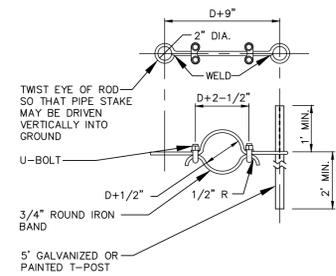
TYPICAL PAD SWALE CROSS SECTION (2/5)
SCALE: 1" = 1'-0"



TYPICAL ACCESS ROAD DITCH CROSS SECTION (3/5)
SCALE: 1" = 1'-0"

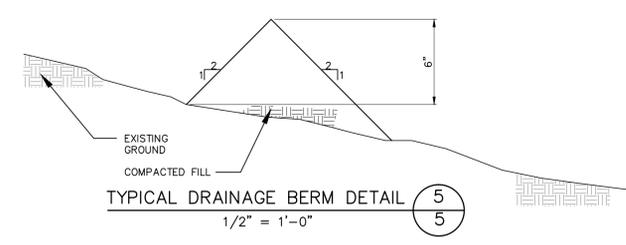


TYPICAL UPPER ROAD DITCH CROSS SECTION (4/5)
SCALE: 1" = 1'-0"

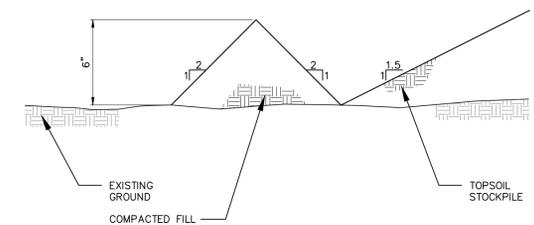


PIPE ANCHOR DETAIL (10/5)
NO SCALE

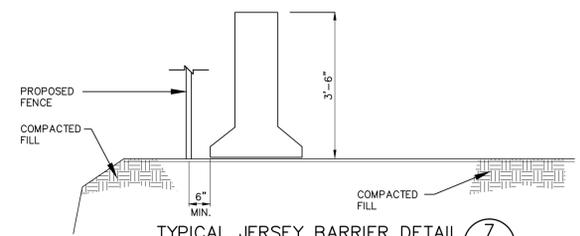
- NOTES:
- USE SPECIFIED DIAMETER-CORRUGATED PLASTIC PIPE WITH WATER TIGHT BELL AND SPIGOT CONNECTIONS.
 - PLACE PIPE ANCHORS ON EACH SIDE OF ELBOW AND AT BOTH UPSTREAM AND DOWN STREAM END OF PIPE CONNECTIONS.
 - PIPE ANCHOR CONSISTS OF AN IRON BAND, 2 T-POSTS, AND ALL NECESSARY HARDWARE.



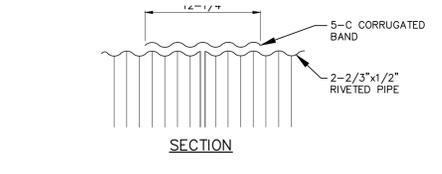
TYPICAL DRAINAGE BERM DETAIL (5/5)
1/2" = 1'-0"



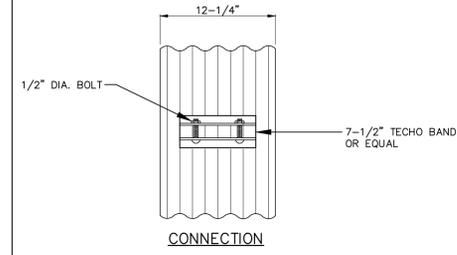
TYPICAL TOPSOIL BERM DETAIL (6/5)
1/2" = 1'-0"



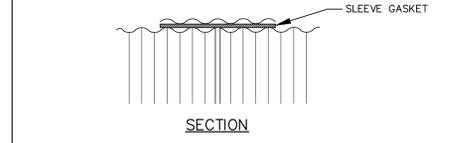
TYPICAL JERSEY BARRIER DETAIL (7/5)
SCALE: 1" = 2'-0"



CORRUGATED BAND DETAIL (8/5)
NO SCALE



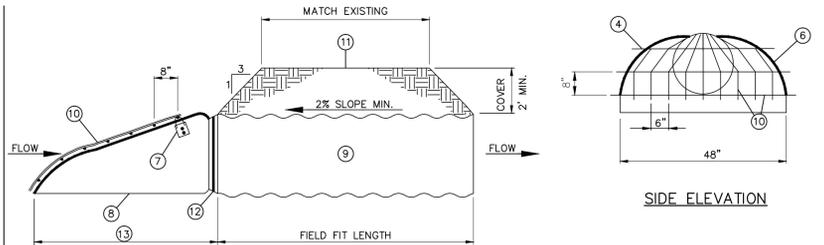
CONNECTION



SECTION

- NOTES:
- BANDS ARE NORMALLY FURNISHED AS FOLLOWS: 12" THRU 48" 1-PIECE 54" THRU 96" 2-PIECE
 - BAND FASTENERS ARE ATTACHED WITH SPOT WELD RIVETS OR HAND WELDS.
 - DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

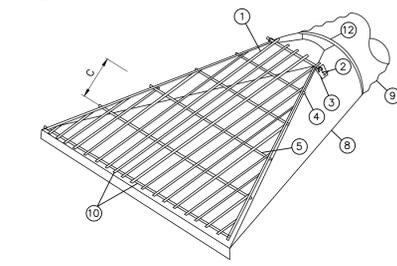
CORRUGATED BAND DETAIL (8/5)
NO SCALE



UPPER ROAD CULVERT INLET TRASH RACK DETAIL (9/5)
NO SCALE

- MATERIALS LIST FOR CULVERT/END SECTION
- #4 REBAR
 - 1/2" STAINLESS STEEL BOLT/NUT. (TYP.)
 - 10 GAGE STEEL STRAPS (TYP.)
 - OVERLAP BARS 4" PAST EDGE OF END SECTION (TYP.)
 - WELD EACH CROSS JOINT (TYP.)
 - REINFORCED EDGE ON END SECTION (TYP.)
 - TRASH RACK HINGE
 - FLARED STEEL CMP END SECTION, MINIMUM WALL THICKNESS 0.064" OR 16 GAGE
 - CMP, MINIMUM WALL THICKNESS PER TABLE
 - HINGED TRASH RACK (TYP.)
 - ACCESS ROAD OR OTHER COVER
 - 1/2" PL. PLACE THREADED ROD OVER TOP OF END SECTION
 - FOR SLOPES STEEPER THAN 4:1 THE LENGTH IS 32' FOR SLOPES SHALLOWER THAN 6:1 THE LENGTH IS 48'

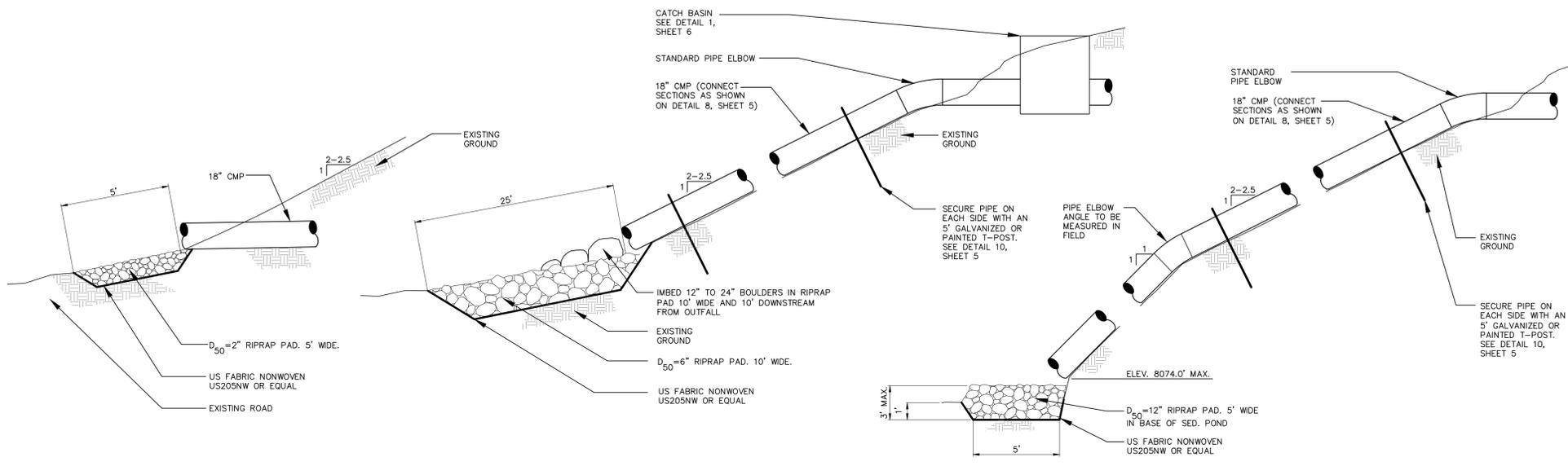
- NOTES:
- PROVIDE HINGED SAFETY BARS (TRASH RACK) ON INFLOW SIDE OF CULVERT.
 - PROVIDE FLARED END SECTIONS ON BOTH ENDS OF CULVERT.
 - INSTALL CULVERT ASSEMBLY INTO EXISTING FLOW CHANNEL. REPAIR CHANNEL AS REQUIRED TO INSTALL CULVERT ASSEMBLY AS DIRECTED BY OWNER OR ENGINEER.
 - ALL SAFETY BARS (TRASH RACK) AND COMPONENTS SHALL HAVE A CORROSION PROTECTIVE FINISH.



ISOMETRIC ELEVATION

NOTE:
ROLL EDGE OF SIDEWALL SNUGLY AGAINST STEEL 1/2" GALVANIZED STEEL ROD OR #4 GALVANIZED REINFORCING BAR.

SECTION VIEW OF EDGE OF FLARED CMP ASSEMBLY



ASCA CULVERT OUTFALL (11/5)
NO SCALE

UPPER ROAD CULVERT DETAIL (12/5)
NO SCALE

SEDIMENTATION POND INLET CULVERT DETAIL (13/5)
NO SCALE

SEAL:

DATE	No.	REVISIONS
12/11	1	Modified detail 7 from berm to jersey barrier

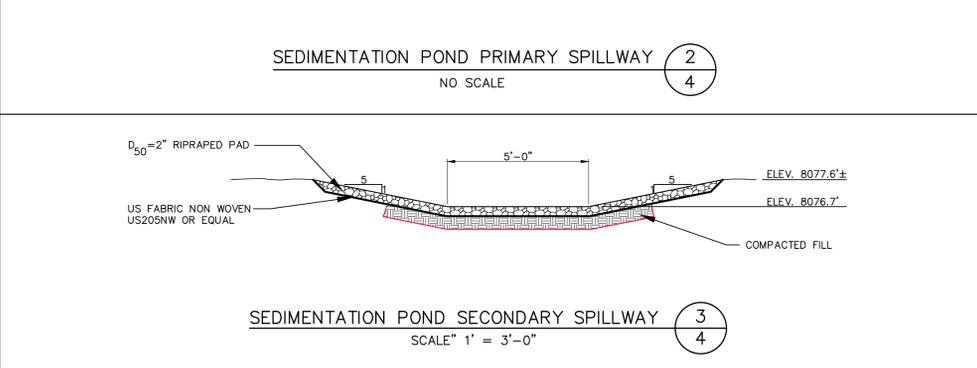
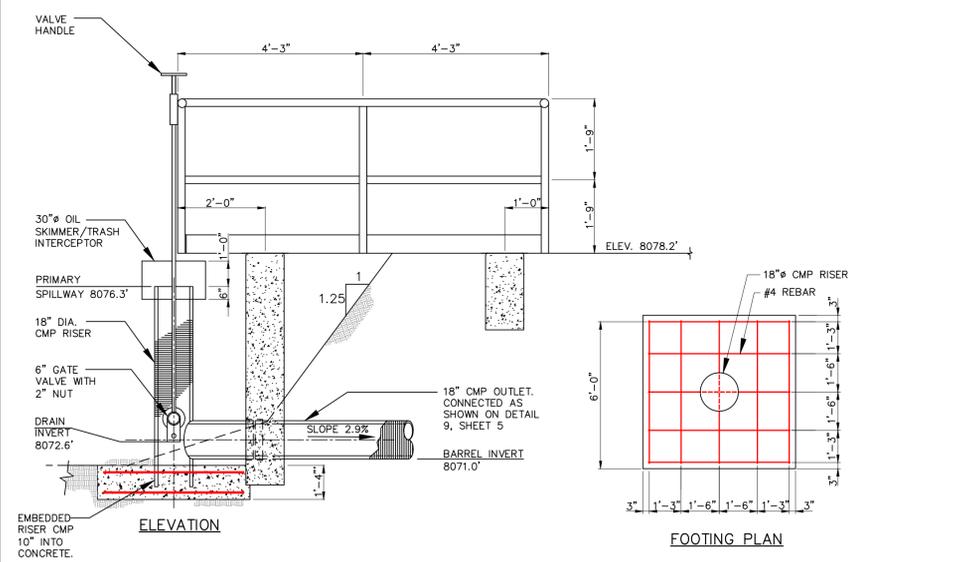
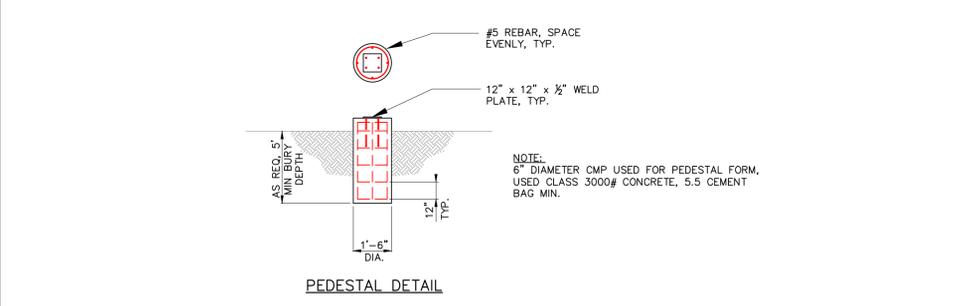
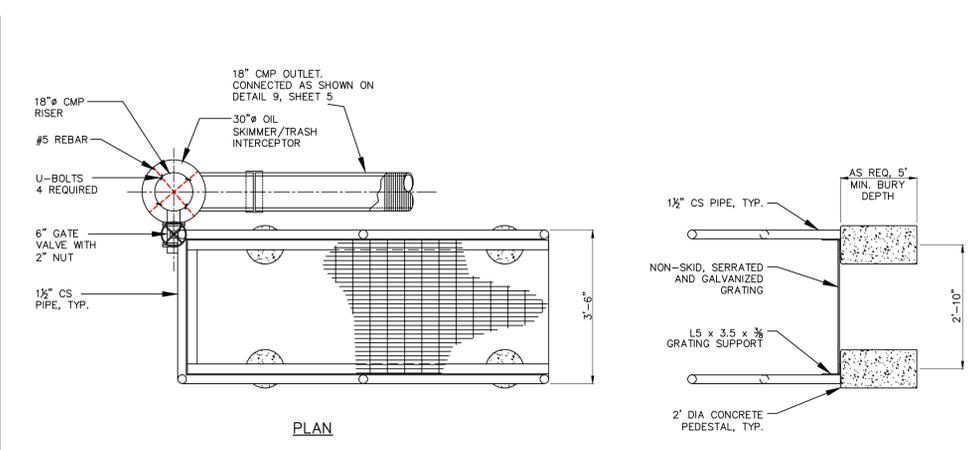
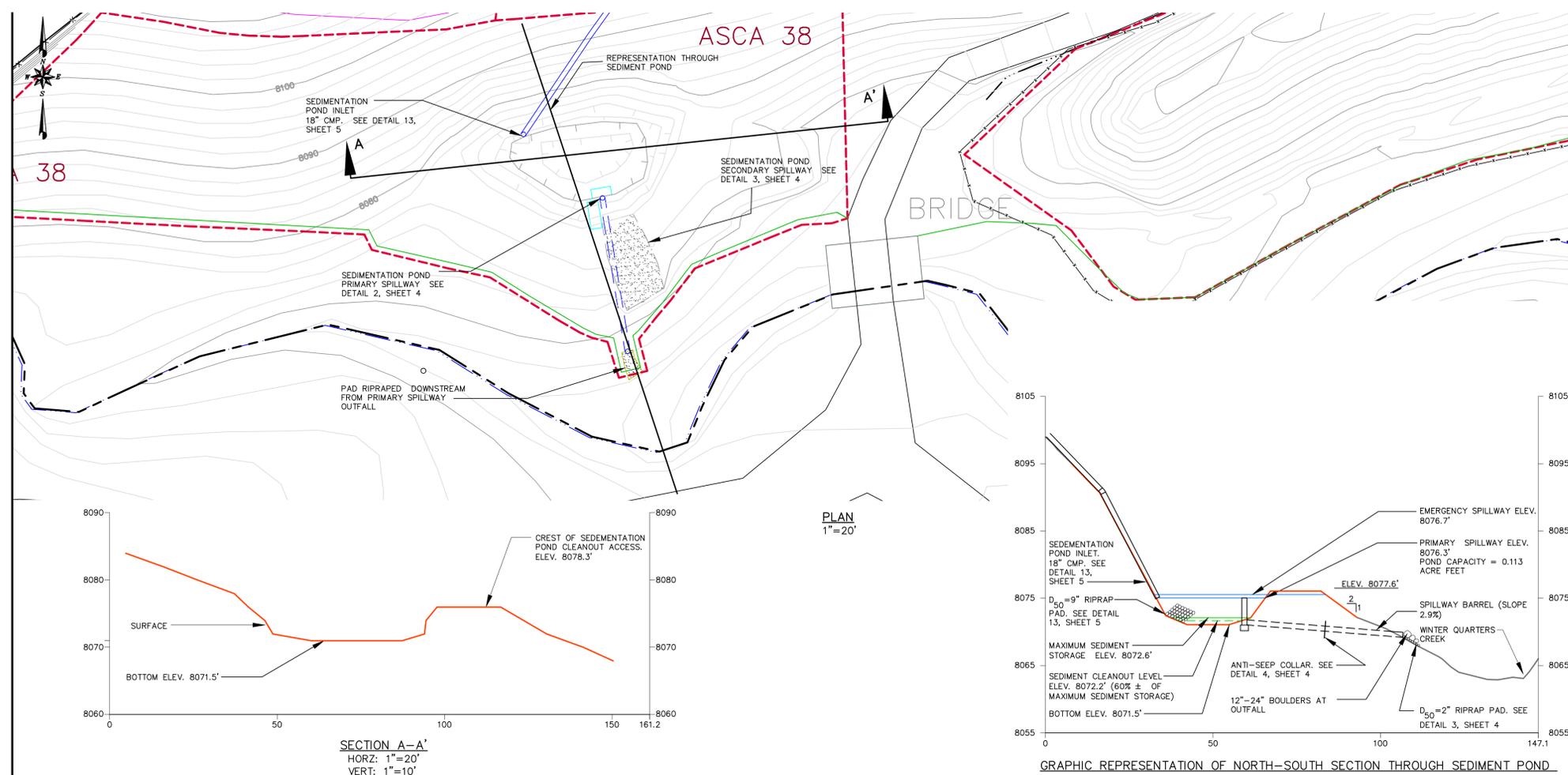
WINTER QUARTERS VENTILATION PAD
ROAD AND DRAINAGE DETAILS

Canyon Fuel Company, LLC
Skyline Mines

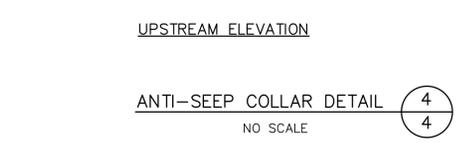
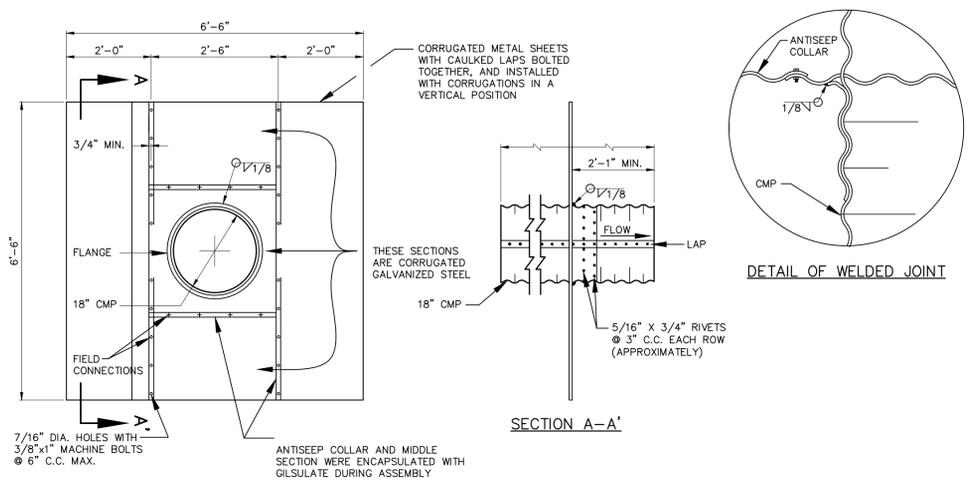
P.O. BOX 719 HELPER, UTAH 84526
801-637-7925
DATE: 12-12-11 CK.BY: CWV REVISION: 1
CAD FILE: EF-3/UC794-18/3.2.4-3E SCALE: AS SHOWN DR.BY: TWE SHEET 5 OF 9
DWG. NO.: 3.2.4-3E 12-12-11



AS SHOWN



- NOTES:
1. AN ANTI-SEEP COLLAR IS LOCATED WITHIN 20' OF THE PRIMARY SPILLWAY INLET.
 2. STEEL COLLAR THICKNESS IS 0.064", (16 GAGE).



SEAL:

DATE	No.	REVISIONS
12-22-11	1	As-built modifications

WINTER QUARTERS VENTILATION PAD
SEDIMENTATION POND AS-BUILT,
SECTIONS AND DETAILS

Canyon Fuel Company, LLC
Skyline Mines

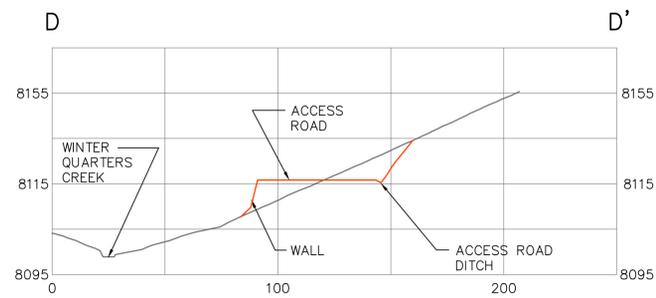
P.O. BOX 719 HELPER, UTAH 84526
801-637-7925

DATE: 12-22-10 CK.BY: CWV
SCALE: AS SHOWN DR.BY: TWE

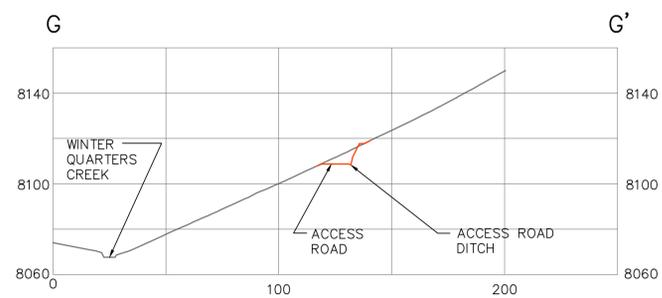
REVISION: 1

DWG. NO.: 3.2.4-3D SHEET 4 OF 9 12-22-2011

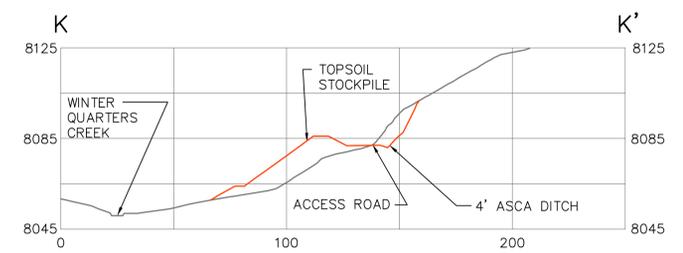




CROSS SECTION D-D'



CROSS SECTION G-G'

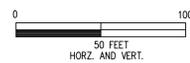


CROSS SECTION K-K'

SEE SHEET 1 FOR LOCATIONS

LEGEND

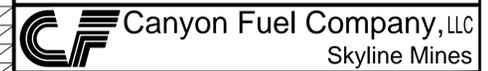
- ORIGINAL GROUND SURFACE
- AS-BUILT SURFACE



SEAL:

DATE	No.	REVISIONS
12-22-11	1	As-built modifications

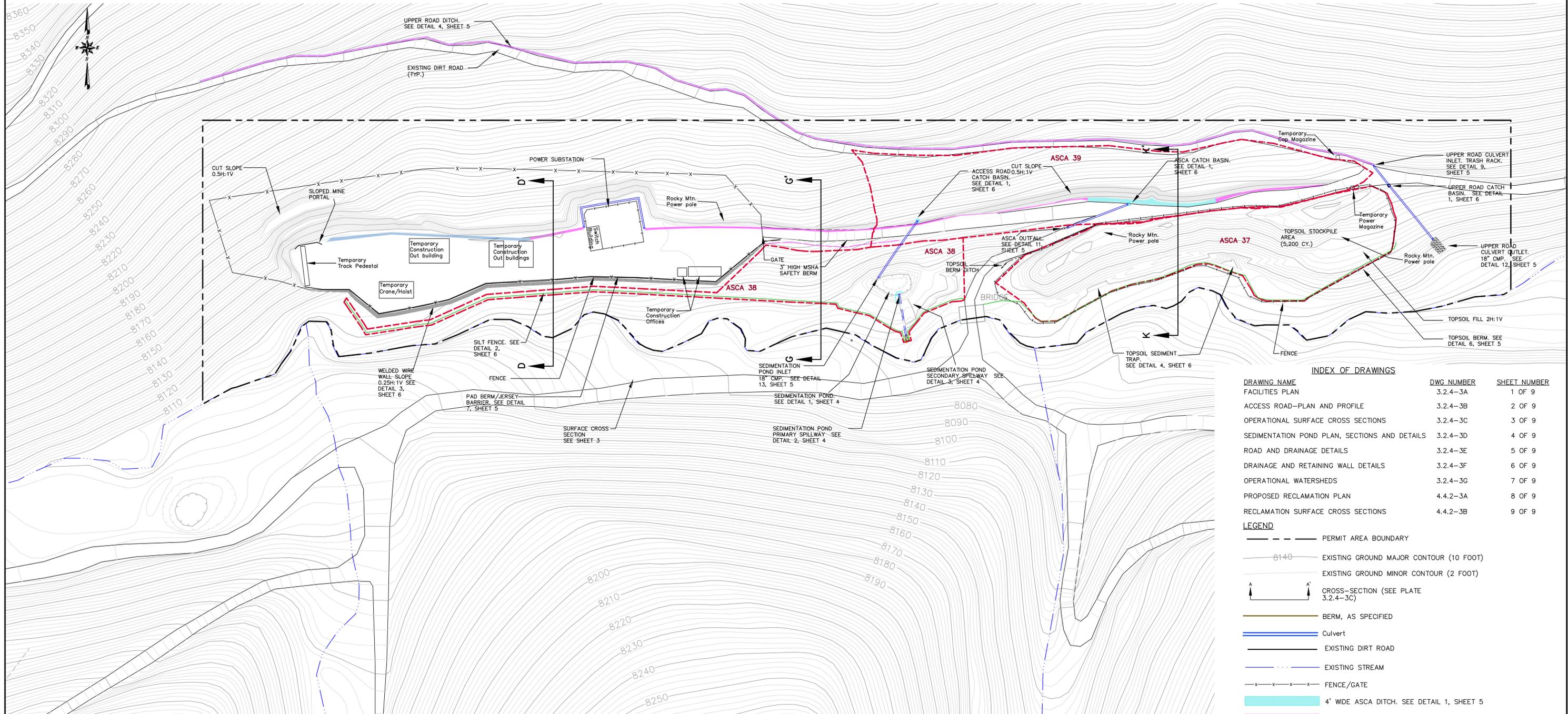
WINTER QUARTERS VENTILATION PAD
OPERATIONAL SURFACE CROSS SECTIONS



P.O. BOX 719 HELPER, UTAH 84526
801-637-7925
DATE: 12-22-11 CK.BY: CWV REVISION: 1
CAD FILE: EF-G:\UC794-18\3.2.4-3C SCALE: AS SHOWN DR.BY: TWE
DWG. NO.: 3.2.4-3C SHEET 3 OF 9 12-22-11

SKYLINE MINE

WINTER QUARTERS VENTILATION PAD



INDEX OF DRAWINGS

DRAWING NAME	DWG NUMBER	SHEET NUMBER
FACILITIES PLAN	3.2.4-3A	1 OF 9
ACCESS ROAD-PLAN AND PROFILE	3.2.4-3B	2 OF 9
OPERATIONAL SURFACE CROSS SECTIONS	3.2.4-3C	3 OF 9
SEDIMENTATION POND PLAN, SECTIONS AND DETAILS	3.2.4-3D	4 OF 9
ROAD AND DRAINAGE DETAILS	3.2.4-3E	5 OF 9
DRAINAGE AND RETAINING WALL DETAILS	3.2.4-3F	6 OF 9
OPERATIONAL WATERSHEDS	3.2.4-3G	7 OF 9
PROPOSED RECLAMATION PLAN	4.4.2-3A	8 OF 9
RECLAMATION SURFACE CROSS SECTIONS	4.4.2-3B	9 OF 9

LEGEND

- PERMIT AREA BOUNDARY
- 8140 --- EXISTING GROUND MAJOR CONTOUR (10 FOOT)
- EXISTING GROUND MINOR CONTOUR (2 FOOT)
- A A' --- CROSS-SECTION (SEE PLATE 3.2.4-3C)
- BERM, AS SPECIFIED
- Culvert
- EXISTING DIRT ROAD
- EXISTING STREAM
- x-x-x-x- FENCE/GATE
- 4' WIDE ASCA DITCH. SEE DETAIL 1, SHEET 5
- 2' WIDE ASCA DITCH. SEE DETAIL 1, SHEET 5
- PAD SWALE. SEE DETAIL 2, SHEET 5
- ASCA 39 (ALTERNATIVE SEDIMENT CONTROL AREA)
- Riprap

AREA	CUT (CY)	FILL (CY)
ACCESS ROAD AND PAD	13,192	7,314
SEDIMENTATION POND EMBANKMENT	522	90
TOPSOIL SEDIMENT TRAP	0	25
1.6 FEET OF TOPSOIL REMOVED (73,667SF AREA)	0	5,200
TOTAL	13,714	12,629

PLAN VIEW
SCALE: 1"=50'

GENERAL NOTES:

SEAL:

DATE	No.	REVISIONS
10-4-11	1	Added Temporary Powder and Cap magazines and temporary construction buildings
2-21-11	2	Provided As-built modifications

WINTER QUARTERS VENTILATION PAD
FACILITIES AS-BUILT PLAN

Canyon Fuel Company, LLC
Skyline Mines

P.O. BOX 719 HELPER, UTAH 84526
801-637-7925
DATE: 12-21-11 CK.BY: CWW REVISION: 2
CAD FILE: EF-G:\UC794-18\3.2.4-3A SCALE: AS SHOWN DR.BY: TWE SHEET 1 OF 9
DWG. NO.: 3.2.4-3A

