



Alton Coal Development, LLC

463 North 100 West, Suite 1

Cedar City, Utah 84720

Phone (435) 867-5331 • Fax (435) 867-1192

C/025/0005

Received 7/13/15

Task ID #4951

July 11, 2015

Daron R. Haddock
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Subject: Evaluation of Pipeline from Pit 10 to Sediment Pond 3, Pond 1 and facility waterline revisions, Alton Coal Development, LLC, Coal Hollow Mine, Kane County, Utah, C/025/0005, Task 4894

Dear Mr. Haddock,

Alton Coal Development, LLC (ACD) is providing Appendix 5-13, "Evaluation of Pipeline from Pit 10 to Pond 3" to amend the MRP to allow a pumping system to remove water from Pit 10, the location of the underground facilities to Sediment Pond 3. As drawing and text edits are intertwined, these two submittals have been combined to reduce confusion. Hopefully this works better for your staff. Response to deficiencies are included also.

Changes to the MRP associated with this amendment have been uploaded to the DOGM's server for review. PDF versions of the drawing are not certified. Upon approval, 2 (two) clean hard copies of the certified drawings for insertion into the MRP will be submitted. Please do not hesitate to contact me if you have any questions 435-691-1551.

Sincerely

B. Kirk Nicholes
Environmental Specialist

R645-301-121.200. Clear and concise. The Drawing 5-28 is of Sediment Impoundment Pond 1. The narrative in the center of the document should only refer to design specifications regarding Sediment Impoundment Pond 1. Remove any narrative that is not directly related to Sediment Impoundment Pond 1.

Drawing 5-28 has been revised to remove the extra text, specifications for the ponds can be found within the MRP.

R645-301-733.130. In addition to updating Sediment Impoundment Pond 1 STORAGE VOLUME COMPUTATIONS, the application will need to update the narrative in Appendix 5-2 in the MRP supporting these computations.

Appendix 5-2 was reviewed with respect to Pond 1 Storage Volumes, no changes were warranted.

R645-301-526.220 requires a facilities description that states how the support facilities will be operated in accordance with a permit issued for the mine; this includes plans and drawing for each:

- The application does not include any changes to text within Chapter 5 section 526 where the Permittee should detail: the number and size of tanks at each location, what each tank will be used for in mine operations, length and purpose of and purpose of pipelines, and to what extent the various parts of the water plan will be reclaimed or left in place. The details say the pipelines to the underground and buried while site inspections show that the pipeline in on the surface. In the event any of the tanks or pipelines will remain in place there must be a validation to meet R645 rules.
- There is no discussion of the tanks pads that should be included as it is relevant to bond estimates at final reclamation. The Permittee should detail how each of the respective tanks is secured, i.e concrete pads either within Chapter 5 or on Drawing 5-8c. If tanks are mounted on mobile equipment it needs to be clarified as such within the text.

R645-301-531, -532, -533 & -742.220 requires certified detailed design plans for siltation structures and impoundments that meet 10 yr, 24 hr design storm. The updated Pond 1 has different dimensions from the original Pond 1 but the storage volume computations remain unchanged. The storage volume computations need to be updated for the as-built Pond 1.

Section 526 of the MRP has been updated to reflect the current configuration of tanks and associated pipelines, also Drawings 5-3, 5-8c with the design of the portable water tanks utilized at the mine.

Computations for Pond 1 have been modified for the as-built Pond 1.

R645-301-521.161 and -301-121.200 requires maps of the proposed features that clearly show buildings, utility corridors, and facilities to be used. The current drawing 5-8C does not meet

the minimum requirements of the above rule as the drawing is not clear and concise and missing information:

- A call out of concrete pads or other means of stabilization/foundations for tanks

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. .
. .

The permittee will supply a corrected Drawing 5-8C that details the dimensions of the foundations for the respective tanks or add text to Chapter 5 including such details, clarify where the South and North Tank are located, and call out the number of tanks present at the facilities area.

Drawing 5-8C has been amended to show actual location of each tank, an accurate drawing of the tanks is included. The portable tanks have no concrete pads or footings as depicted. The texts for section 526 has been updated with descriptions of the tanks and there locations.

The application does not meet the minimum requirements of R645-301-830 as the Permittee did not supply updated reclamation cost for the additional line items updated within the application, such as the additional tank removal, concrete demolition, pipeline removal/backfill, and earthwork regrading for backfilling of Pond 1.

The minor bond cost for removal of one additional tank and removal of 1,409 feet of surface pipe will be included in the updated bond included with the new combined bond release application being submitted this week.

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: Alton Coal Development, LLC

Mine: Coal Hollow Mine

Permit Number: C/025/0005

Title: Evaluation of Pipeline From Pit 10 to Sediment Pond 3 and Pond 1 / Facility update

Description, Include reason for application and timing required to implement:

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO# _____
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV # _____
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies? _____

Explain: _____

- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
- Yes No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

B. Kirk Nicholes Environmental Specialist 7/10/15 B. K. Nicholes
 Print Name Position Date Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 9 day of July, 2015

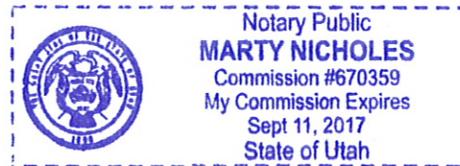
Notary Public: Marty Nicholes, state of Utah.

My commission Expires: 9-11-2017

Commission Number: 670359 } ss:

Address: 1670 E Millstone Cir

City: Enoch State: UT Zip: 84721



For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

APPENDIX 5-13

**EVALUATION OF PIPELINE
FROM
PIT 10 TO SEDIMENT POND 3**

**EVALUATION OF PIPELINE
FROM
PIT 10 TO SEDIMENT POND 3**

**ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE**



**By
Dan W. Guy
Registered Professional Engineer
State of Utah No. 154168**

EVALUATION OF PIPELINE FROM PIT 10 TO SEDIMENT POND 3

General

It is proposed to install a 4" High Density Polyethylene (HDPE) drainage pipe from the sump in Pit 10 to Sediment Pond 3. The pipe will provide a means to pump collected runoff or seepage from Pit 10, as well as a means to safely discharge any excess water encountered in the underground mining.

Plan

The plan is to collect water in a sump with dimensions of approximately 20' in diameter by 12' deep. The sump pump is to be automatically activated as the sump fills, and to shut off when the water depth is at 6'. The water will be pumped into the 4" line, which will run up the western highwall of Pit 10 and then be buried from the haulroad to Pond 3, as shown on the attached Figure 1 – Plan View. The line is projected to be approximately 3250' in length and will discharge at the uppermost end of Pond 3, as shown.

The proposed rate of the pumped discharge is 100 gpm or 0.22 cfs. At this rate, the exit velocity of the pumped water is expected to be less than 5 fps and non-erosive; however, it is proposed to diffuse the pipe discharge over a 5' wide by 10' long apron of 9" D50 or larger rock to prevent any scouring.

Sediment Pond Sizing

As shown in Appendix 5-2, Sediment Pond 3 has a required volume of 6.72 ac. ft. to contain the runoff and sediment from a 100 yr. – 24 hr. precipitation event. The actual size of the pond is 12.96 ac. ft., leaving an excess capacity of 6.24 ac. ft. over the required volume. Although it is very unlikely, if the proposed sump pump were to discharge continuously for 24 hours at 100 gpm, that would amount to approximately 0.44 ac. ft. added to the pond. The large size of the pond would still allow for complete retention of the pumped water and design runoff from a 100 yr. – 24 hr. storm for far greater than 24 hours.

Settling / Discharge Quality

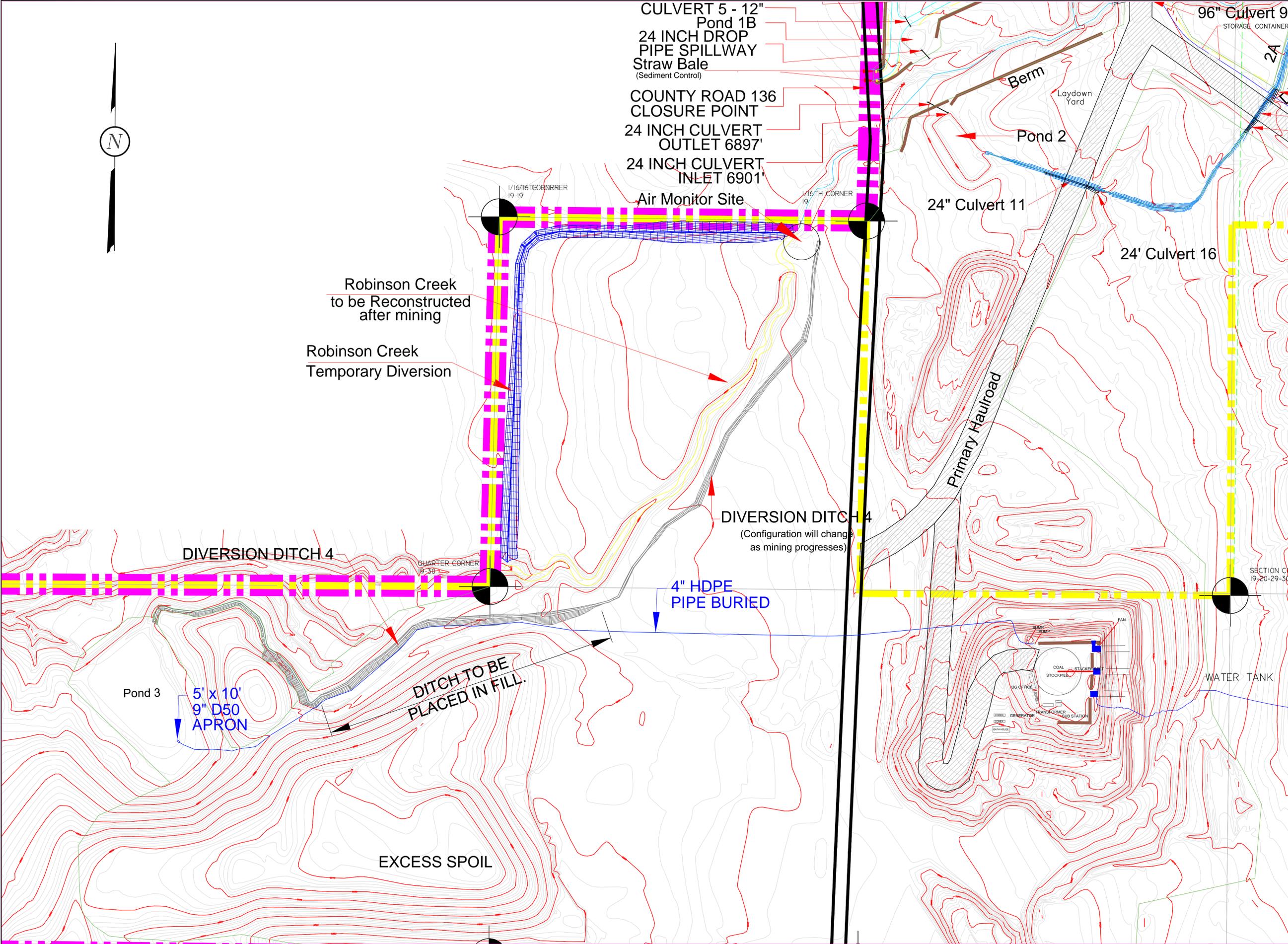
As indicated above, the pond is of adequate size to contain the maximum pumped volume and design storm runoff for more than 24 hours to provide adequate time for settling of sediments. In fact, it would provide for a much longer time (up to 14 days) if required, prior to reaching the spillway.

In the unlikely event that water would need to be pumped from the underground operations, this would be far cleaner than storm or surface water, and would require little, if any, retention time to meet discharge standards.

The pond is also equipped with a 6" decant pipe, which will allow the operator to retain water as long as necessary to maximize settling, and then discharge under controlled conditions. Any discharges from the pond will be in accordance with the approved UPDES Discharge Permit, and sampled as required.

Conclusion

The existing Sediment Pond 3 is adequately sized to provide complete retention of the pumped water and the design 100 yr. – 24 hr. storm event for greater than 24 hours, and as much as 340 hours (14+ days) to allow for settling of sediments. In addition, the pond can be drained down as needed under controlled conditions with the approved decant pipe system. All discharges would be in accordance with the approved UPDES Discharge Permit and sampled as required.



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FACILITIES & STRUCTURES

Pipeline from
 Pit 10 to Pond 3

COAL HOLLOW
 PROJECT
 ALTON, UTAH

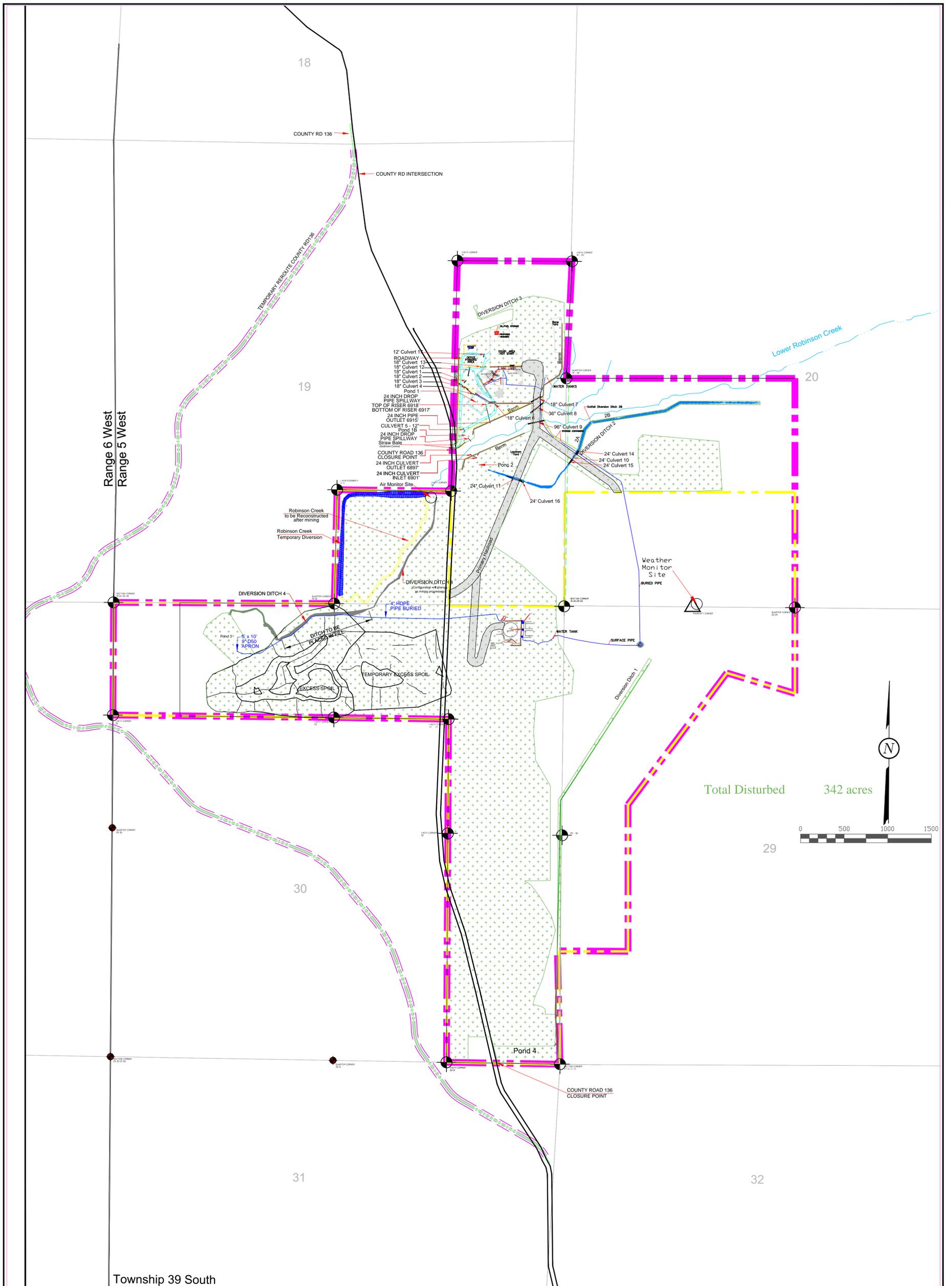
FIGURE 1

REVISIONS	
DATE	BY:

CHECKED BY:	DWG	DATE:	11/10/08	SCALE:	1" = 150'	SHEET
DRAWN BY:	K. Nicholes	DRAWING:	Figure 1	JOB NUMBER:		

LEGEND:

- PERMITS BOUNDARY
- PRIVATE COAL OWNERSHIP
- COAL RECOVERY LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- PIPE LINE



LEGEND:

- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- COAL RECOVERY LINE
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- DIVERSION DITCHES
- PROPOSED SEDIMENT
- IMPOUNDS
- BERM
- YEAR 1 DISTURBANCE
- YEAR 2 DISTURBANCE
- YEAR 3 DISTURBANCE
- CENTERLINE
- WATER LINE
- WATER TANK / WELL

DRAWN BY:
 C. McCOURT
 G. Grossman
 CHECKED BY:
 CRM/WES
 DATE:
 11/10/08
 SCALE:
 1" = 500'
 SHEET
 DRAWING:
 5-3
 JOB NUMBER:
 1400

REVISIONS

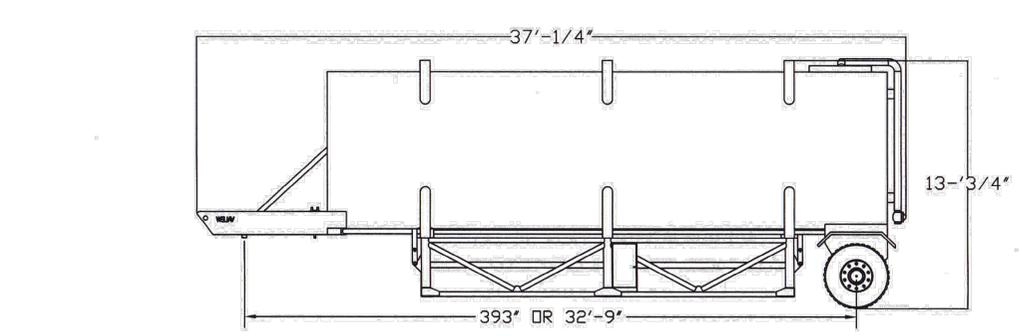
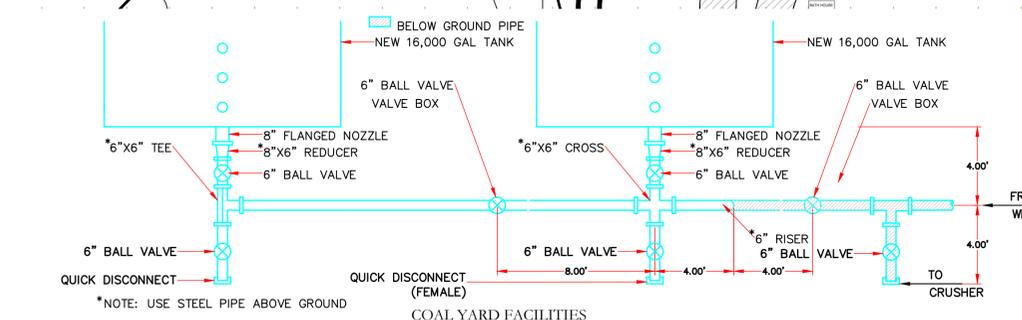
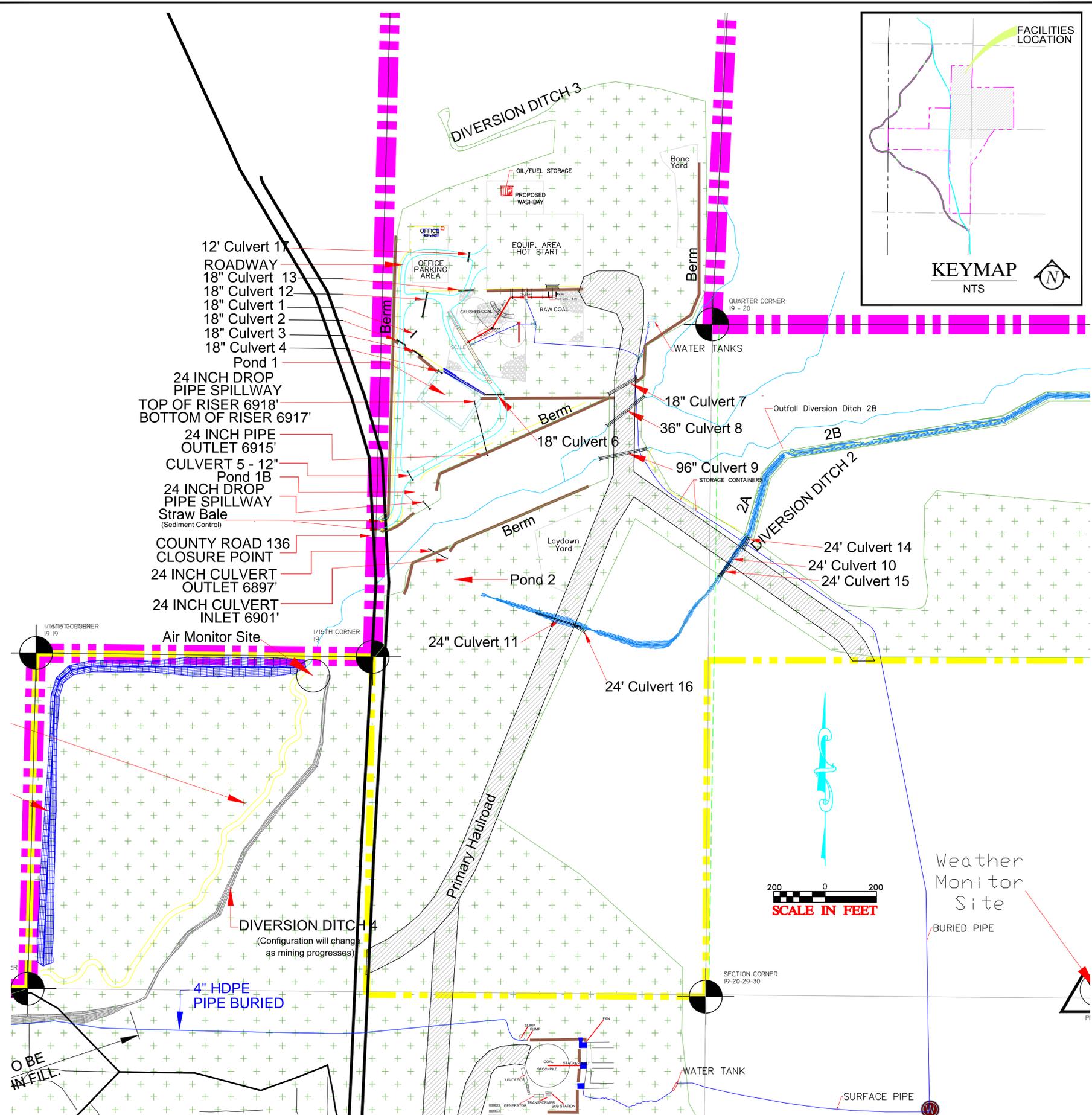
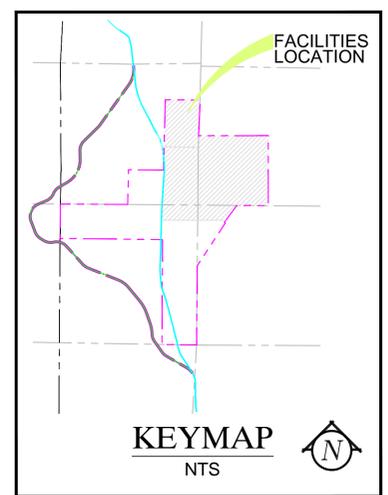
DATE:	BY:
6/13/11	KN/JKJR
7/11/15	KN

DRAWING: 5-3
 JOB NUMBER: 1400
 SHEET: 5-3

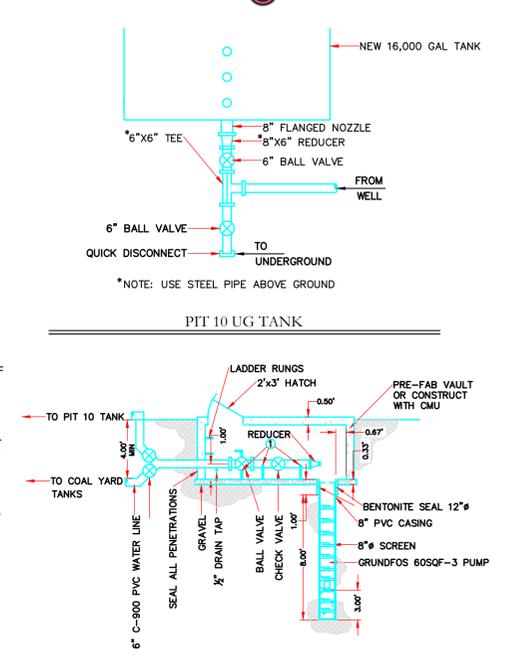
FACILITIES & STRUCTURES
LAYOUT
 COAL HOLLOW
 PROJECT
 ALTON, UTAH
 DRAWING: 5-3



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- SPECIFICATIONS**
- GRUNDFOS 60SQF-3 SUBMERSIBLE PUMP 50 GPM
 - 10-2 W/GRN. SUBMERSIBLE PUMP CABLE
 - CABLE CLIPS
 - STRAINING WIRE
 - WIRE CLAMP
 - TRACKING MOUNT: UTRF-188HD TRACKER (12 MODULES)
 - DIESEL- OR PETROL-DRIVEN PORTABLE GENERATOR
 - I/O GENERATOR CONTROLLER



LEGEND:

- PROJECT AREA
- PRIVATE COAL OWNERSHIP
- SECTION LINE
- 6" PVC C-900 WATER LINE
- EXIST. CONTOURS
- 2014-15 DISTURBANCE EXTENTS
- GROUNDWATER PUMP SYSTEM (SEE DETAIL ABOVE). 5 GPM WITH 60 FT OF HEAD.
- 12.5'(DIA) X 17.5'(L) 16,000 GAL WATER TANK MOUNTED ON SKIDS X 2 (SEE DETAIL ABOVE).
- WATER LINE VALVE

DRAWN BY:
G. GROSSMAN

DRAWING:
5-8C

JOB NUMBER:
1400

CHECKED BY:
CRM/WES

DATE:
11/10/08

SCALE:
1" = 200'

SHEET

REVISIONS	
DATE:	BY:
5/8/2015	ARC
7/11/2015	KN

FACILITIES & STRUCTURES

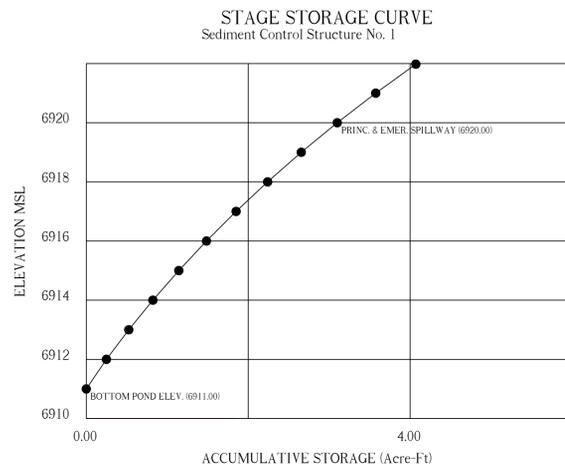
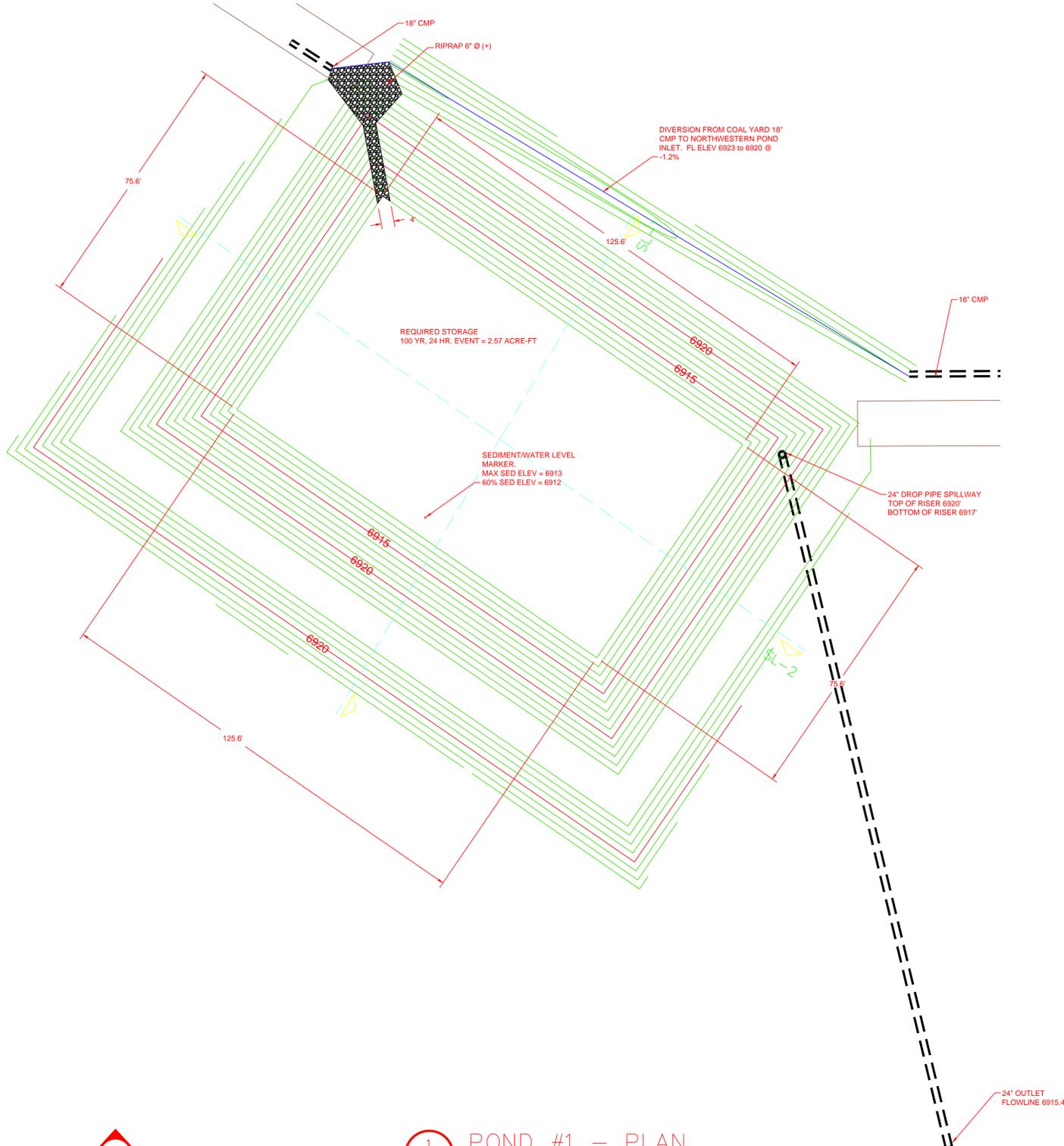
WATER PLAN

COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: 5-8C



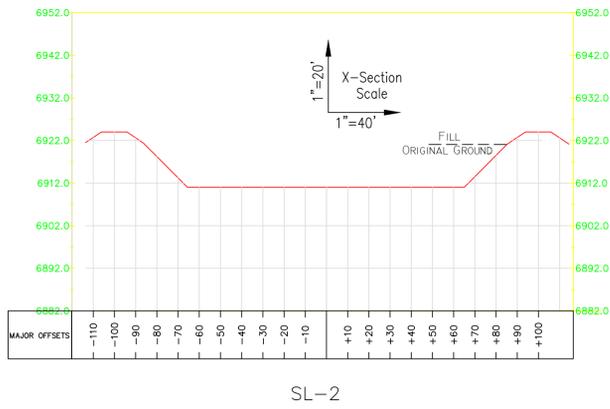
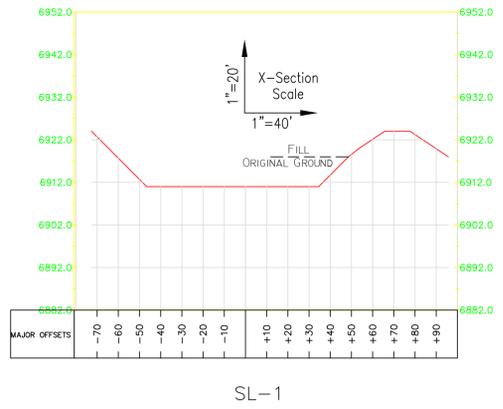
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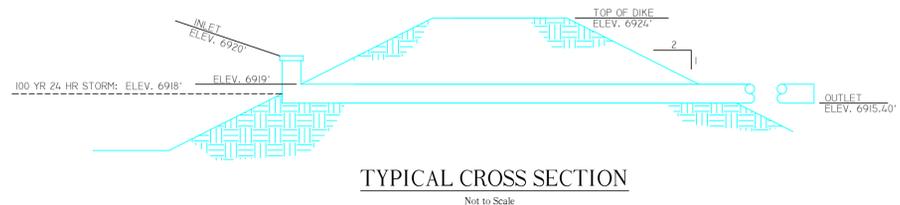
STORAGE VOLUME COMPUTATIONS

Sediment Control Structure No. 1

ELEV. (ft)	WIDTH (ft)	LENGTH (ft)	AREA (ac)	AVG. AREA (ac)	INTERVAL (ft)	STORAGE (ac-ft)	ACC. STORAGE (ac-ft)	STAGE INTERVAL (ft)
6911.00	NA	NA	0.2503					
6912.00	NA	NA	0.2705	0.2604	1.00	0.2604	0.2604	1.00
6913.00	NA	NA	0.2914	0.2810	1.00	0.2810	0.5413	2.00
6914.00	NA	NA	0.3131	0.3022	1.00	0.3022	0.8436	3.00
6915.00	NA	NA	0.3356	0.3243	1.00	0.3243	1.1679	4.00
6916.00	NA	NA	0.3587	0.3472	1.00	0.3472	1.5151	5.00
6917.00	NA	NA	0.3826	0.3707	1.00	0.3707	1.8857	6.00
6918.00	NA	NA	0.4072	0.3949	1.00	0.3949	2.2807	7.00
6919.00	NA	NA	0.4326	0.4199	1.00	0.4199	2.7006	8.00
6920.00	NA	NA	0.4587	0.4457	1.00	0.4457	3.1463	9.00
6921.00	NA	NA	0.4855	0.4721	1.00	0.4721	3.6184	10.00
6922.00	NA	NA	0.5131	0.4993	0.98	0.4993	4.1177	11.00
6924.00								



1 POND #1 - PLAN
C9.0 SCALE: 1" = 20'



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SEDIMENT IMPOUNDMENT POND 1 DETAILS
COAL HOLLOW PROJECT
ALTON, UTAH
DRAWING: 5-28

REVISIONS

DATE:	BY:
4/19/2011	KRB
5/7/2015	ARC
7/11/2015	KN

DRAWN BY:	CHECKED BY:
KRB	JL
DRAWING:	DATE:
5-28	11/08/2010
JOB NUMBER:	SCALE:
594-01-01	AS NOTED