

State of Illinois  
Department of Natural Resources  
Office of Mines and Minerals  
Division of Abandoned Mined Lands

Funded by the  
United States Department of Interior  
Federal Office of Surface Mining

Ruby Mine Remedial  
Reclamation Project  
AML-GScE-0813  
St. Clair County  
1 LR

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Existing and Proposed Conditions
- 4-5. Detail sheet




Ruby mine  
St. Clair County

PRE-BID MEETING


A Pre-Bid meeting is scheduled for this project at 9:00 a.m. Thursday, September 10, 2009 at the project site.

Prepared By IDNR Staff


Approved for Bidding:

  
Joe Angleton, Director  
Office of Mines and Minerals

Approved By:

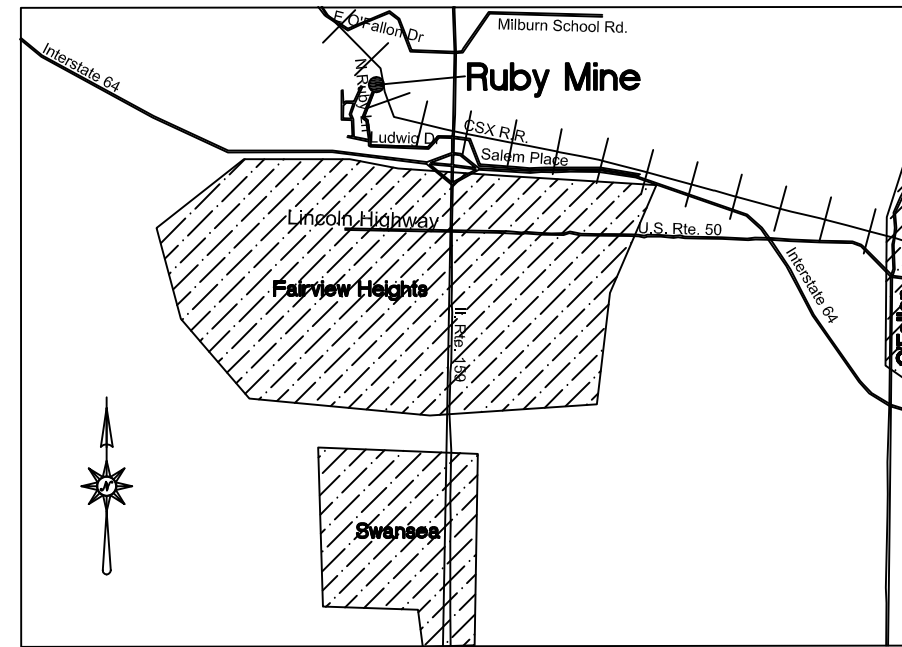
  
Greg Pinto, Acting Manager  
AML Division

Approved By:

  
Lawrence L. Lewis, P.E.  
IL Licensed Professional Engineer  
No. 0062-038880



Summary of Quantities					
#	Item	Section	Quantities	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Furnished Excavation	204	373	C.Y.	Compaction in accordance with section 204.
3	Special Excavation	214	74	C.Y.	
4	Riprap Fill, C-3	216	13	Ton	
5	CA-1 Fill	216	24	Ton	
6	CA-6 Fill	216	57	Ton	
7	Filter Fabric For Use with Riprap	216	79	S.Y.	
8	Seeding - Class 6, Conservation Mixture	IDOT 250	1.0	Acre	
9	Nitrogen Fertilizer Nutrient	IDOT 250	120	Pound	See Note-This Sheet
10	Phosphorous Fertilizer Nutrient	IDOT 250	100	Pound	See Note-This Sheet
11	Potassium Fertilizer Nutrient	IDOT 250	250	Pound	See Note-This Sheet
12	Agricultural Ground Limestone	IDOT 250	10	Ton	See Note-This Sheet
13	Mulch, Method 2, Procedure 1	IDOT 251	1.0	Acre	2 Tons/Acre
14	Erosion Control Blanket	IDOT 251	1029	S.Y.	
15	Stone Riprap A-4	IDOT 281	340	S.Y.	
16	Stone Riprap A-4	IDOT 281	27	TON	
17	Filter Fabric for use with Riprap	IDOT 282	340	S.Y.	
18	Aggregate Surface Course, Type B, CA-6	IDOT 402	259	Ton	
19	Concrete Structures	IDOT 503	18	C.Y.	
20	Reinforcement Bars	IDOT 508	1676.0	Pound	
21	Mobilization (Max. 6% of Bid)	671	1	L.S.	



Location Map

**GENERAL NOTES**

Unless otherwise noted on the plans, all disturbed areas within the construction limits will be amended with agricultural ground limestone, fertilizer nutrients, seeded and mulched at the required rates specified.

The contractor is responsible for visiting the site and familiarizing himself with the existing conditions and the proposed reclamation work prior to submitting a bid.

The contractor shall provide and pay for all field engineering services to execute the project as specified in the Field Engineering section of the Special Provisions.

The contractor is responsible for locating and protecting all existing utility lines. Unless noted on the plans, all onsite access roads may be used for construction and must be maintained during construction and restored to original or better condition at the completion of work by the contractor. Access roads to the site as designated in the plans are to be maintained to the satisfaction of the engineer.

The construction limits will be staked by the contractor prior to construction. The contractor is responsible for the repair and or restitution at his own expense for all damages done to any area outside the construction limits.

**CONSTRUCTION NOTES**

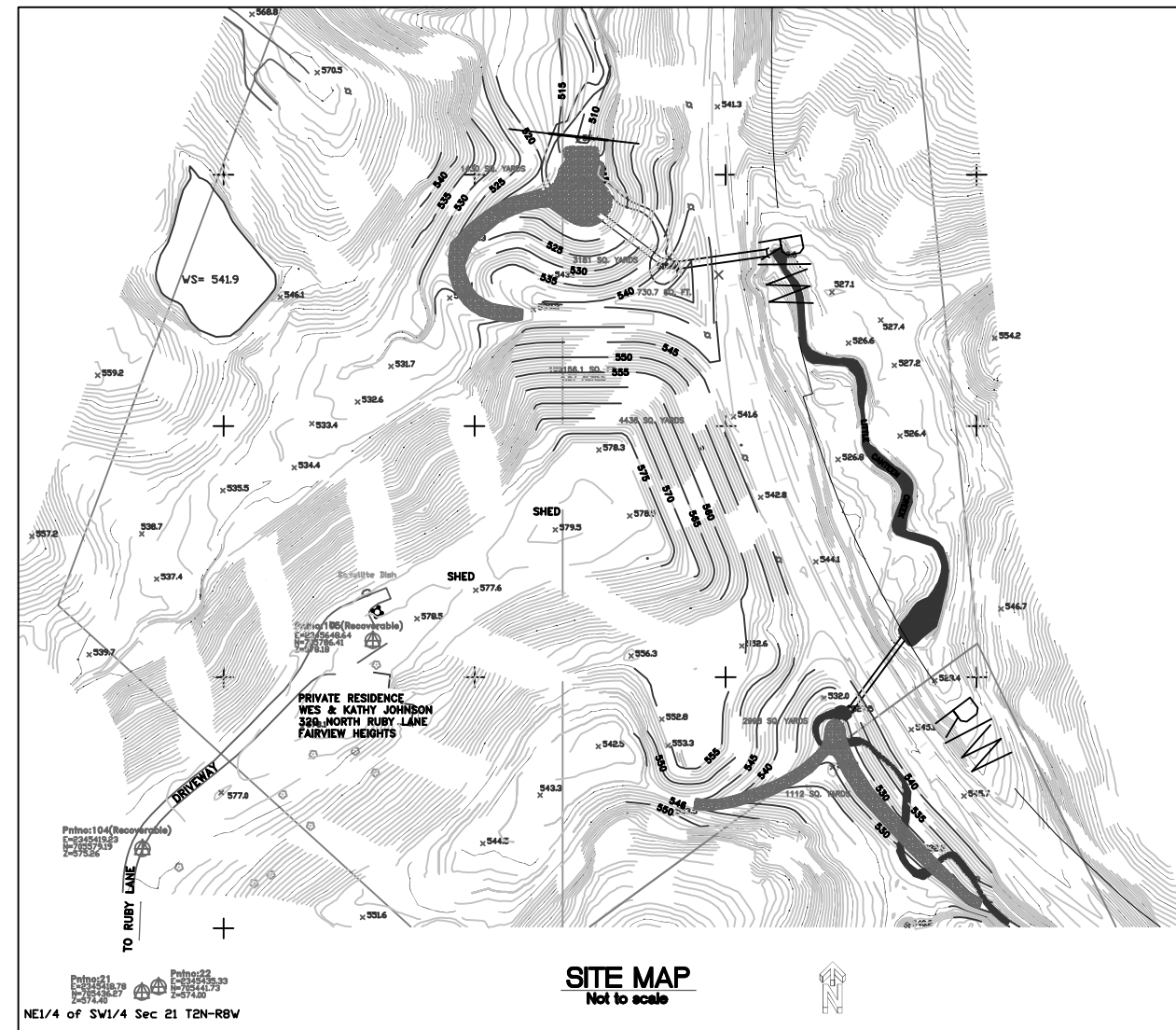
**EROSION CONTROL**—The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures that have become silted in or damaged.

**AGRICULTURAL GROUND LIMESTONE**—Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified below.

**SOIL AMENDMENTS** - Immediately prior to seedbed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the following rates:

- Nitrogen Fertilizer Nutrient 120 lbs./acre
- Phosphorous Fertilizer Nutrient 100 lbs./acre
- Potassium Fertilizer Nutrient 250 lbs./acre
- Agricultural Ground Limestone 10 tons/acre

**MULCHING**—Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 1 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.



SITE MAP  
Not to scale

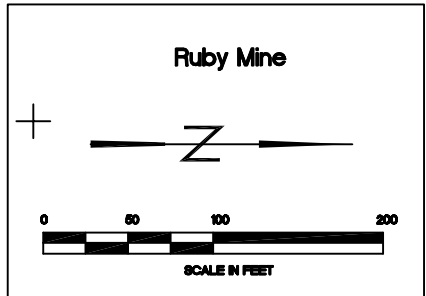
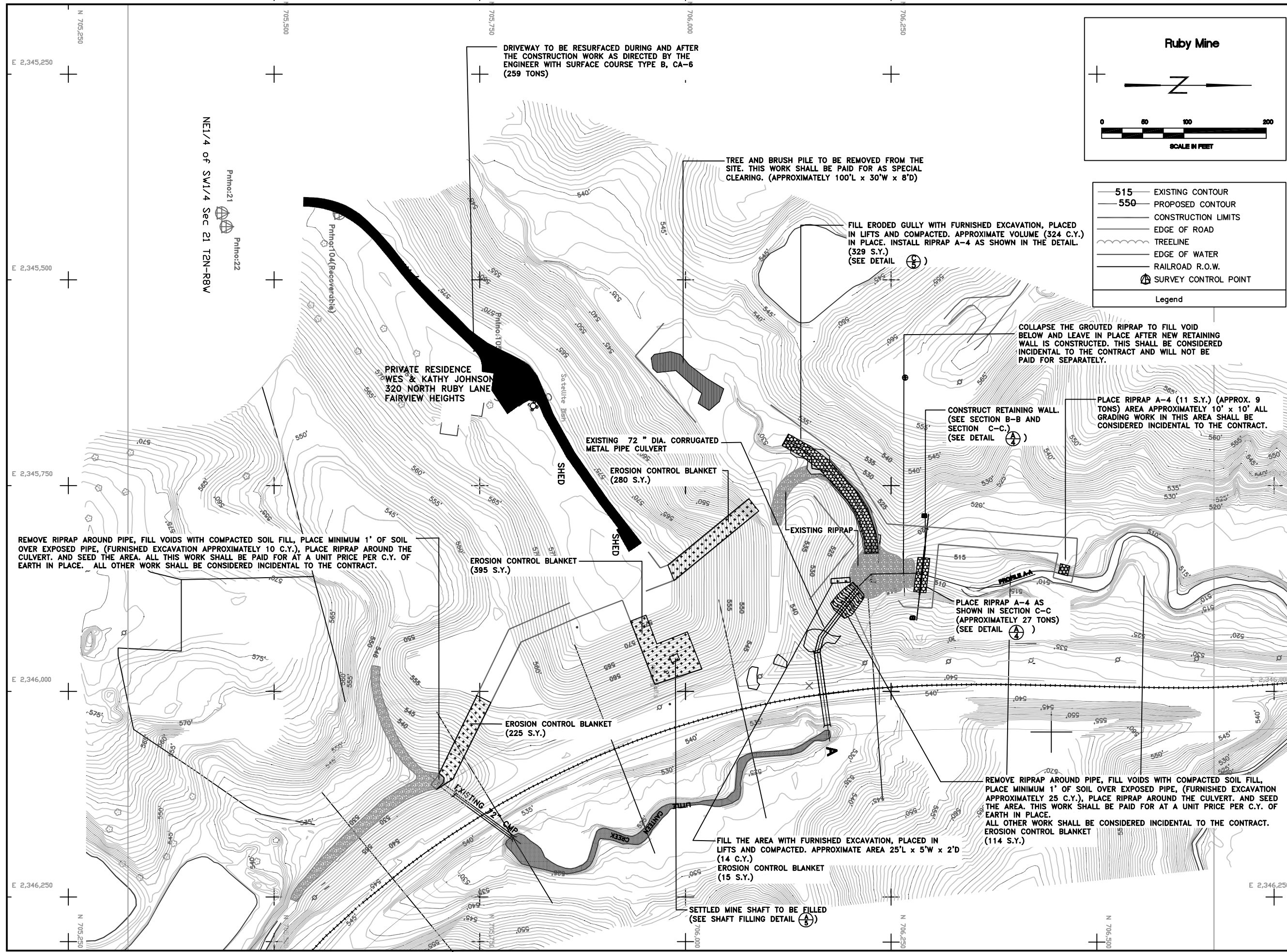
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Department of Natural Resources

Ruby Mine Remedial  
Reclamation Project  
AML-GScE-0813  
St. Clair County

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_

Summary of Quantities/  
General Notes/Location Map  
Sheet  
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Legend	
515	EXISTING CONTOUR
550	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
---	EDGE OF ROAD
---	TREELINE
---	EDGE OF WATER
---	RAILROAD R.O.W.
⊕	SURVEY CONTROL POINT

DRIVEWAY TO BE RESURFACED DURING AND AFTER THE CONSTRUCTION WORK AS DIRECTED BY THE ENGINEER WITH SURFACE COURSE TYPE B, CA-6 (259 TONS)

TREE AND BRUSH PILE TO BE REMOVED FROM THE SITE. THIS WORK SHALL BE PAID FOR AS SPECIAL CLEARING. (APPROXIMATELY 100'L x 30'W x 8'D)

FILL ERODED GULLY WITH FURNISHED EXCAVATION, PLACED IN LIFTS AND COMPACTED. APPROXIMATE VOLUME (324 C.Y.) IN PLACE. INSTALL RIPRAP A-4 AS SHOWN IN THE DETAIL. (329 S.Y.) (SEE DETAIL ⊕)

COLLAPSE THE GROUTED RIPRAP TO FILL VOID BELOW AND LEAVE IN PLACE AFTER NEW RETAINING WALL IS CONSTRUCTED. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

CONSTRUCT RETAINING WALL. (SEE SECTION B-B AND SECTION C-C.) (SEE DETAIL ⊕)

PLACE RIPRAP A-4 (11 S.Y.) (APPROX. 9 TONS) AREA APPROXIMATELY 10' x 10' ALL GRADING WORK IN THIS AREA SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

PLACE RIPRAP A-4 AS SHOWN IN SECTION C-C (APPROXIMATELY 27 TONS) (SEE DETAIL ⊕)

REMOVE RIPRAP AROUND PIPE, FILL VOIDS WITH COMPACTED SOIL FILL, PLACE MINIMUM 1' OF SOIL OVER EXPOSED PIPE, (FURNISHED EXCAVATION APPROXIMATELY 25 C.Y.), PLACE RIPRAP AROUND THE CULVERT. AND SEED THE AREA. THIS WORK SHALL BE PAID FOR AT A UNIT PRICE PER C.Y. OF EARTH IN PLACE. ALL OTHER WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. EROSION CONTROL BLANKET (114 S.Y.)

FILL THE AREA WITH FURNISHED EXCAVATION, PLACED IN LIFTS AND COMPACTED. APPROXIMATE AREA 25'L x 5'W x 2'D (14 C.Y.) EROSION CONTROL BLANKET (15 S.Y.)

SETTLED MINE SHAFT TO BE FILLED (SEE SHAFT FILLING DETAIL ⊕)

REMOVE RIPRAP AROUND PIPE, FILL VOIDS WITH COMPACTED SOIL FILL, PLACE MINIMUM 1' OF SOIL OVER EXPOSED PIPE, (FURNISHED EXCAVATION APPROXIMATELY 10 C.Y.), PLACE RIPRAP AROUND THE CULVERT. AND SEED THE AREA. ALL THIS WORK SHALL BE PAID FOR AT A UNIT PRICE PER C.Y. OF EARTH IN PLACE. ALL OTHER WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

NE1/4 of SW1/4 Sec 21 TEN-R8W  
Pntmo:21  
Pntmo:22

PRIVATE RESIDENCE  
WES & KATHY JOHNSON  
320 NORTH RUBY LANE  
FAIRVIEW HEIGHTS

EXISTING 72" DIA. CORRUGATED METAL PIPE CULVERT  
EROSION CONTROL BLANKET (280 S.Y.)  
SHED

EROSION CONTROL BLANKET (395 S.Y.)

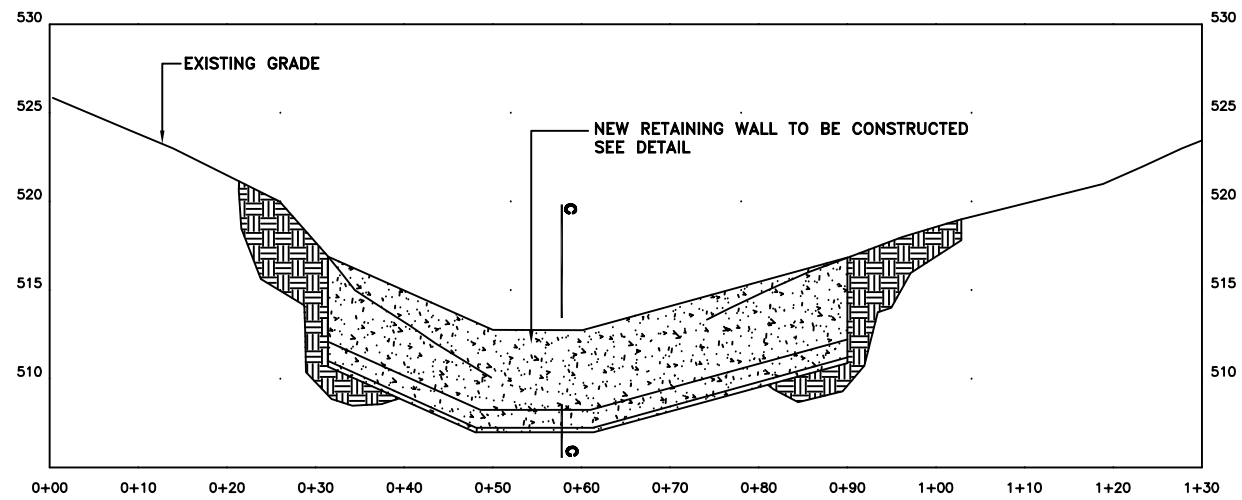
EROSION CONTROL BLANKET (225 S.Y.)

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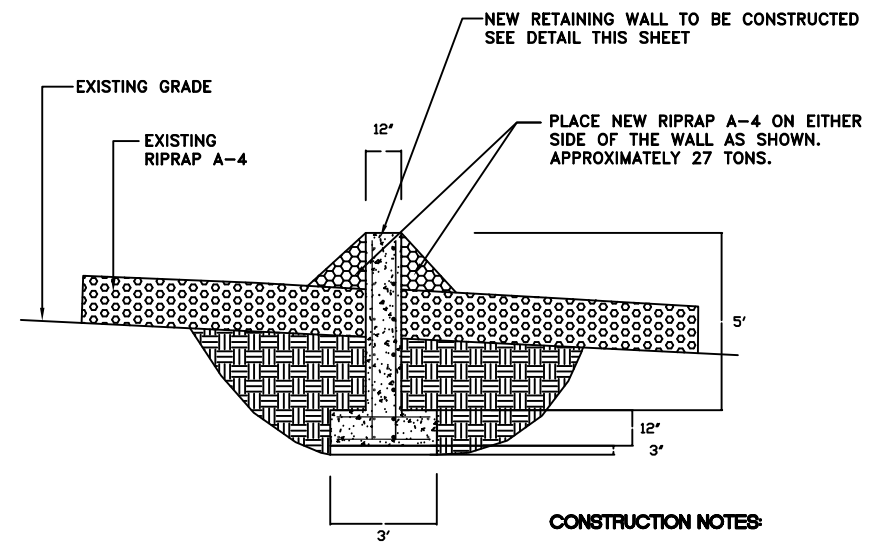
Ruby Mine Remedial Reclamation Project  
AML-GScE-0813  
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Drawn By: V.P., M-LF Date: 08/04/2008  
Checked By:

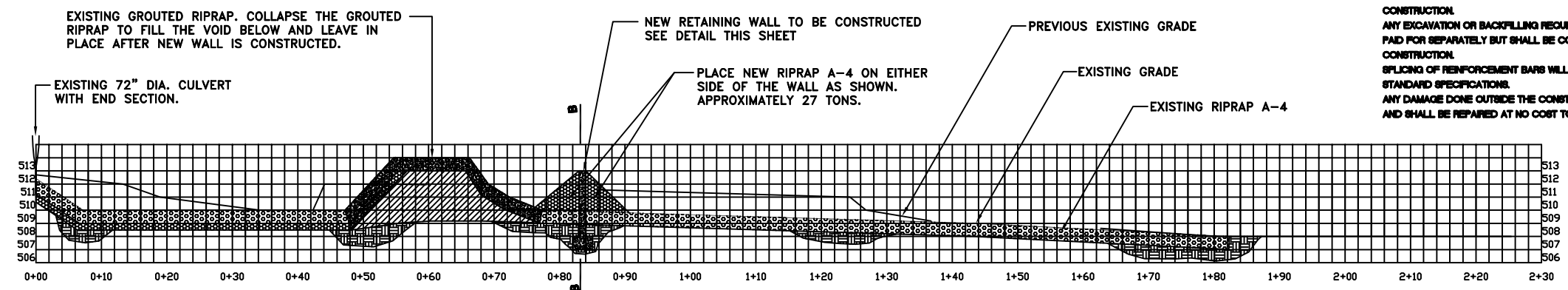
Remedial Reclamation Plan  
- Ruby Mine  
Sheet  
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SECTION B-B



SECTION C-C

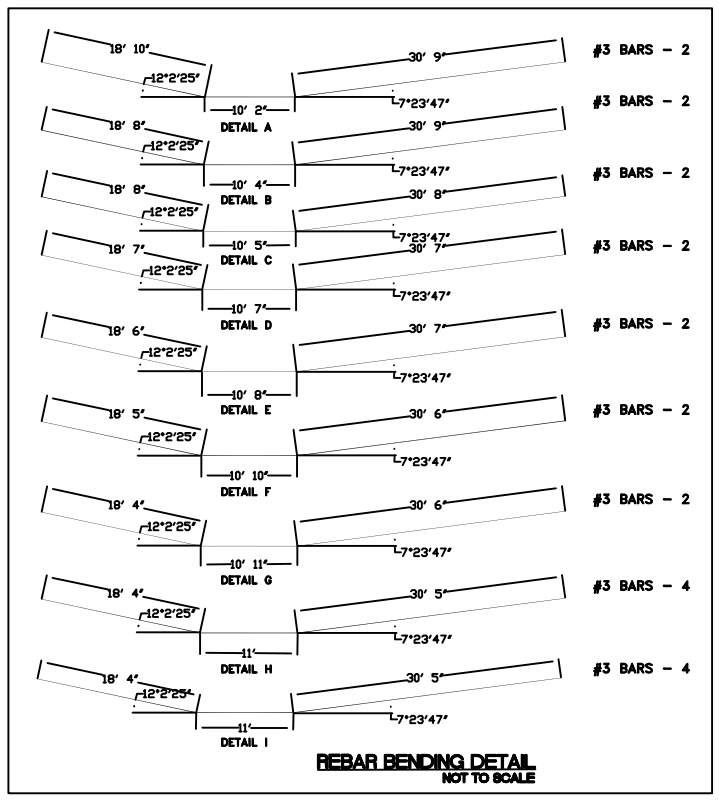
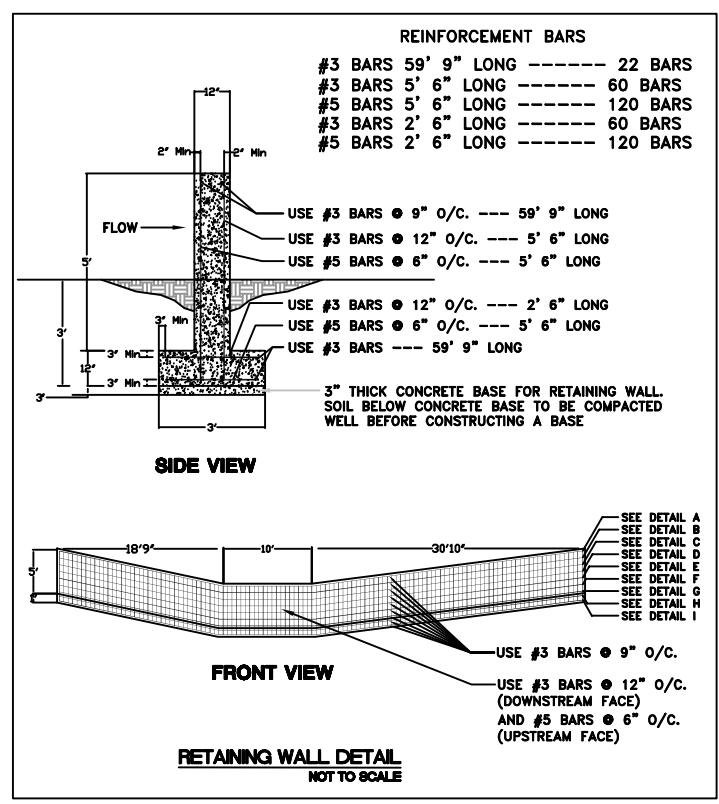


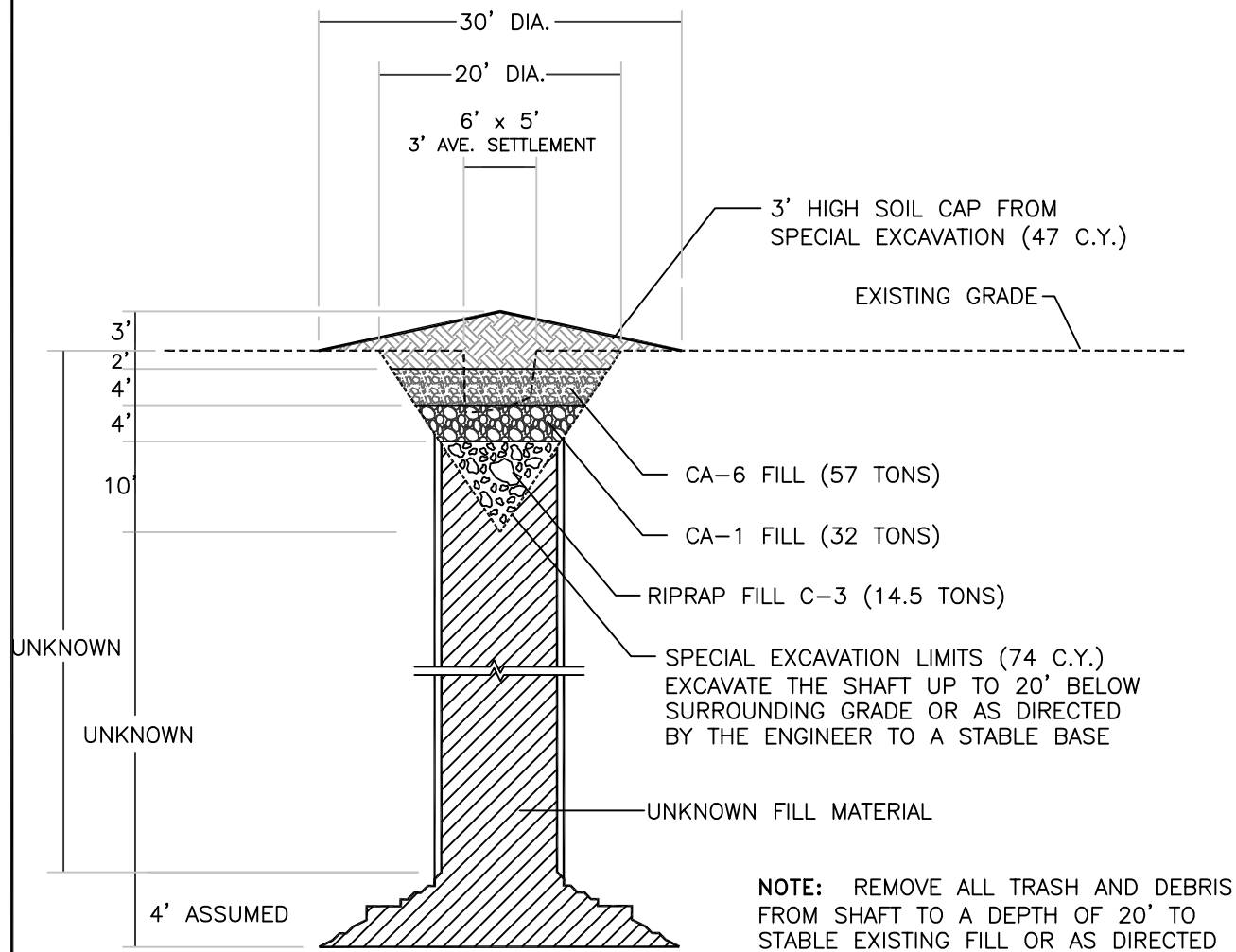
PROFILE A-A

A  
4  
RETAINING WALL DETAIL  
NOT TO SCALE

**CONSTRUCTION NOTES:**

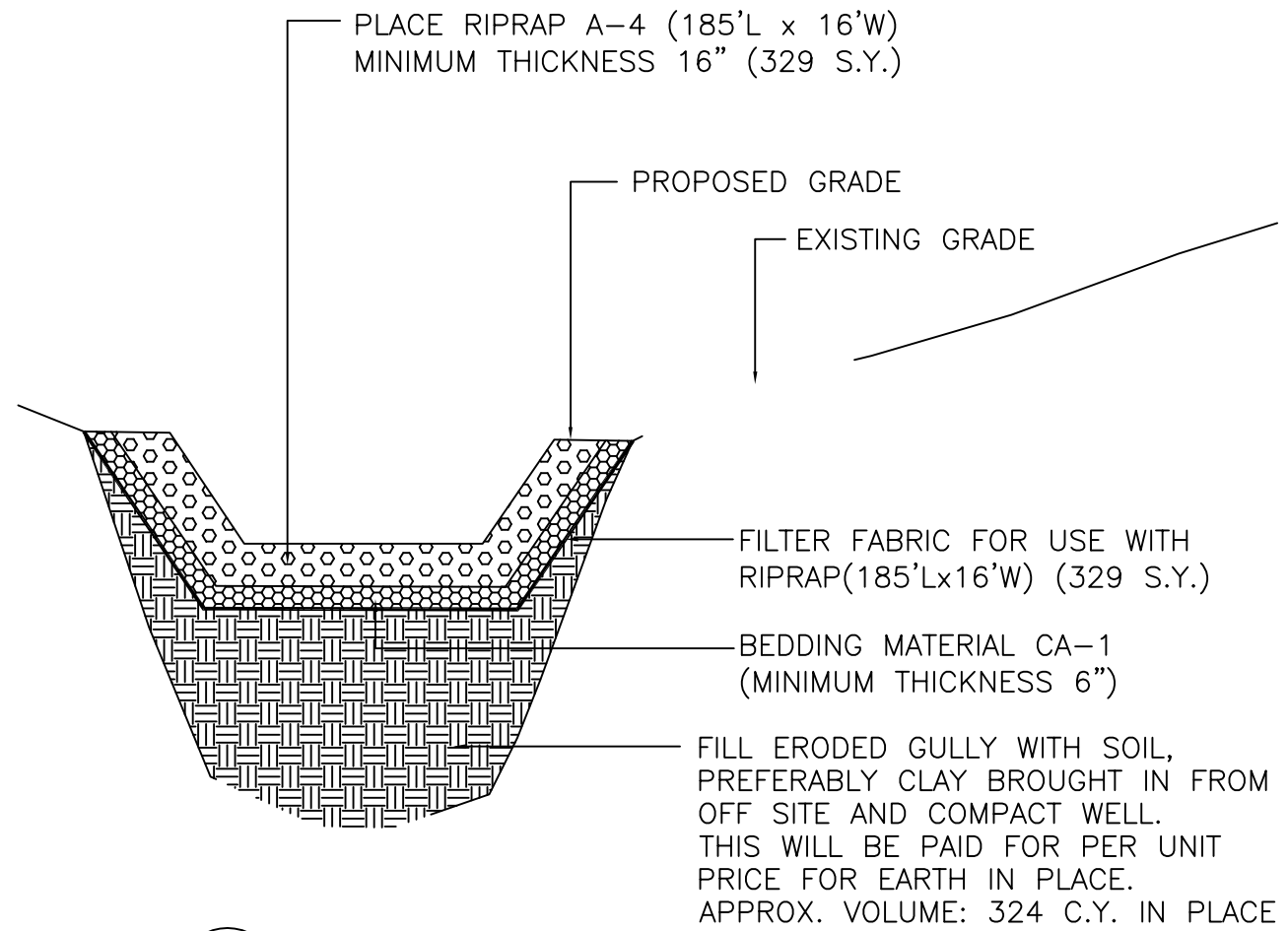
DURING CONSTRUCTION OF RETAINING WALL WATER SHOULD BE PUMPED FROM UPSTREAM TO DOWNSTREAM TO KEEP THE CONSTRUCTION SITE DRY ALL TIME DURING CONSTRUCTION. THIS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE RETAINING WALL CONSTRUCTION.  
 ANY EXCAVATION OR BACKFILLING REQUIRED TO CONSTRUCT THE RETAINING WALL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO RETAINING WALL CONSTRUCTION.  
 SPLICING OF REINFORCEMENT BARS WILL BE ALLOWED IF NECESSARY IN ACCORDANCE WITH DOT STANDARD SPECIFICATIONS.  
 ANY DAMAGE DONE OUTSIDE THE CONSTRUCTION AREA SHALL BE CONTRACTORS RESPONSIBILITY, AND SHALL BE REPAIRED AT NO COST TO EQUAL OR BETTER QUALITY THEN BEFORE.





NOTE: REMOVE ALL TRASH AND DEBRIS FROM SHAFT TO A DEPTH OF 20' TO STABLE EXISTING FILL OR AS DIRECTED BY THE PROJECT ENGINEER.

**A** MINE SHAFT FILLING DETAIL  
**5** NOT TO SCALE



**C** GULLY FILLING AND RIPRAP DETAIL  
**5** NOT TO SCALE