

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

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

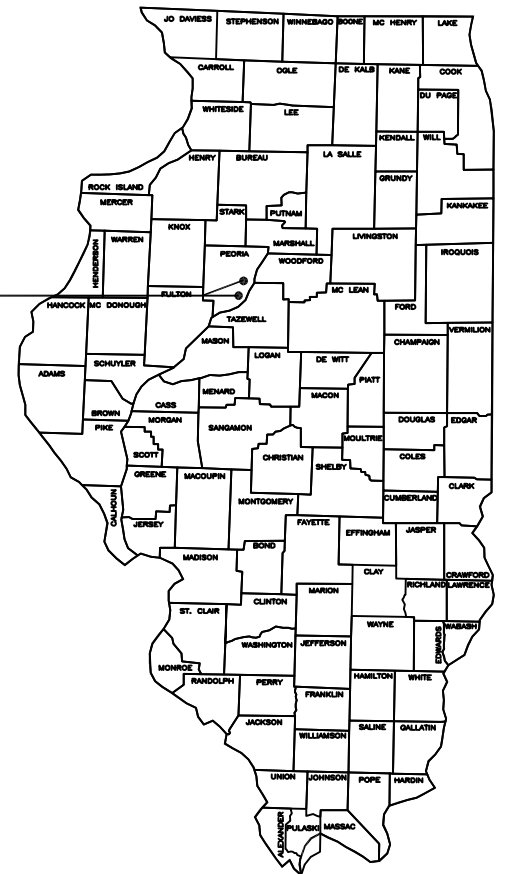
Cupi Mine Group
Reclamation Project
AML-GPoE-1707
Peoria County
1LR

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities / General Notes
3. Location Maps
4. Existing and Proposed Conditions - Cupi Mine
5. Details
6. Existing and Proposed Conditions - Junker Mine
7. Existing and Proposed Conditions - Lamarsh No. 5
- 8-9. Cross Sections - Lamarsh No. 5
10. Existing and Proposed Conditions - Bellevue Slope
11. Bat Gate Details - Bellevue Slope

Contract No. M1707

Cupi Mine Group
Peoria County



NOTE:

A Pre-Bid meeting is scheduled for this project at 10:00 a.m., Thursday, November 9, 2017 at the Cupi Mine site entrance off South Rothlisberger Road.

Certified Copy

Prepared By IDNR Staff

Approved for Bidding:

Thomas A. Benner, Director
Office of Mines and Minerals

Approved By:

Greg Pinto, Acting Manager
AMLR Division

Approved By:

Vinodchandra V. Patel
IL Licensed Professional Engineer
No. 062.046043



Summary of Quantities										
Item No.	#	Item	Section	Quantity					Unit	Rates/Remarks
				Cupi Mine	Junker Mine	Lamarsh No. 5	Bellevue Slope	Total		
NRM20110	1	Special Clearing	201	0.2	0.2	0.5	0.1	1	L SUM	
NRM20210	2	Earth Excavation	202	167	101	4,155	–	4,423	CU YD	
NRM20230	3	Mine Refuse Excavation	202	164	101	–	–	265	CU YD	
NRM21510	4	Special Excavation	215	135	94	–	–	229	CU YD	
NRM21621	5	CA Fill, CA1	216	29	21	–	–	50	TON	
NRM21626	6	CA Fill, CA6	216	88	53	–	–	141	TON	
NRM21643	7	Rockfill, RR 3	216	23	23	–	–	46	TON	
NRM25040	8	Nitrogen Fertilizer Nutrient	250	168	72	336	96	672	POUND	120 Lbs./Acre/Application
NRM25050	9	Phosphorous Fertilizer Nutrient	250	140	60	280	80	560	POUND	100 Lbs./Acre/Application
NRM25060	10	Potassium Fertilizer Nutrient	250	490	210	980	280	1,960	POUND	350 Lbs./Acre/Application
NRM25070	11	Agricultural Ground Limestone	250	1.4	0.6	2.8	0.8	5.6	TON	2 Tons/Acre
NRM25090	12	Seeding	250	0.7	0.3	1.4	0.4	2.8	ACRE	
25100115	13	Mulch, Method 2	IDOT 251	0.7	0.3	1.4	0.4	2.8	ACRE	2 Tons/Acre, Procedure 1
NRM25810	14	Mowing	258	0.7	0.3	1.4	0.4	2.8	ACRE	
NRM28040	15	Perimeter Erosion Barrier	280	–	–	430	–	430	FOOT	Silt Fence
NRM50101	16	Removal of Existing Structures	501	–	–	1	–	1	L SUM	
542C0211	17	Pipe Culverts, Class C, Type 1 6”	IDOT 542	–	30	–	–	30	FOOT	
NRM59410	18	Polyurethane Foam Closure	594	–	–	52	–	52	CU YD	
NRM59610	19	Bat Gate	596	–	–	–	1	1	EACH	
66501600	20	Woven Wire Gates, 4’ X 16’ Double	IDOT 665	–	–	–	1	1	EACH	
NRM66610	21	Mine Opening Marker	666	2	1	–	–	3	EACH	
NRM67110	22	Mobilization (Max. 6% of Bid)	671	0.25	0.25	0.25	0.25	1	L SUM	

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 in the plans.

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 pertaining to the work.

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.

Application rates specified in the plans are shown in the Summary of Quantities–Rates/Remarks column.

CONSTRUCTION NOTES

BURIAL/REMOVAL OF MATERIAL – Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special Provisions.

TREE REMOVAL – Trees removed shall be disposed of onsite per Section 201 of the Special Provisions. Tree removal must be complete by March 14, 2018.

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 in the plans.

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.

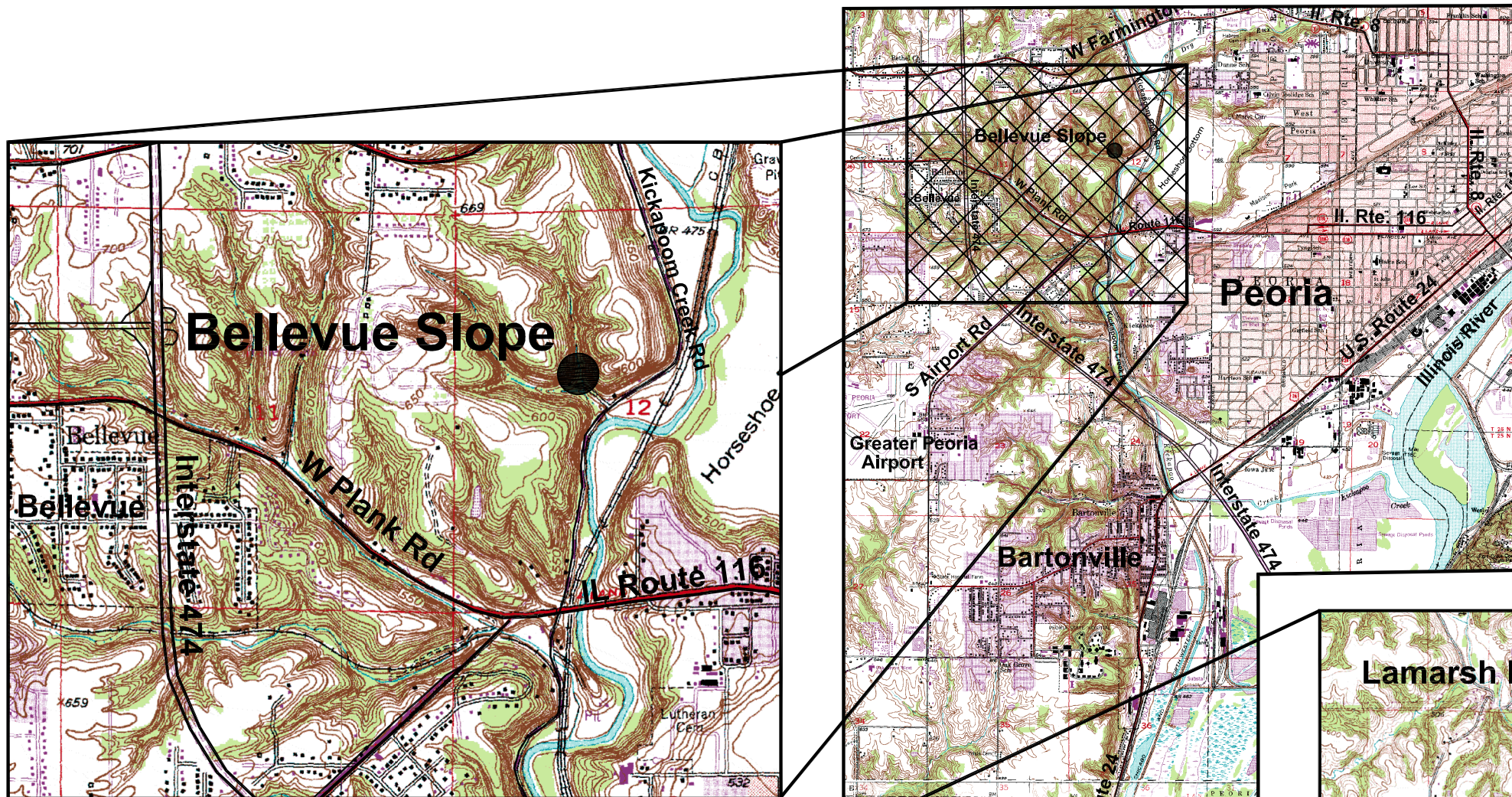
Schedule of Seeding, Fertilizer Nutrients and Mulch			
ITEM (unit)	March 1, 2018 thru April 20, 2018	August 1, 2018 thru September 1, 2018	TOTAL QUANTITY
SEEDING (acres)	2.8 (acres)		2.8
AGRICULTURAL GROUND LIMESTONE (tons)	5.6 2 Tons/Acre		5.6
NITROGEN FERTILIZER NUTRIENT (pounds)	336 120 lbs./Acre	336 120 lbs./Acre	672
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	280 100 lbs./Acre	280 100 lbs./Acre	560
POTASSIUM FERTILIZER NUTRIENT (pounds)	980 350 lbs./Acre	980 350 lbs./Acre	1,960
MULCH, METHOD 2 PROCEDURE 1 (tons)	2.8 Acres 2 Tons/Acre		2.8
MOWING (acres)		2.8 Acres	2.8

State of Illinois
Department of Natural Resources

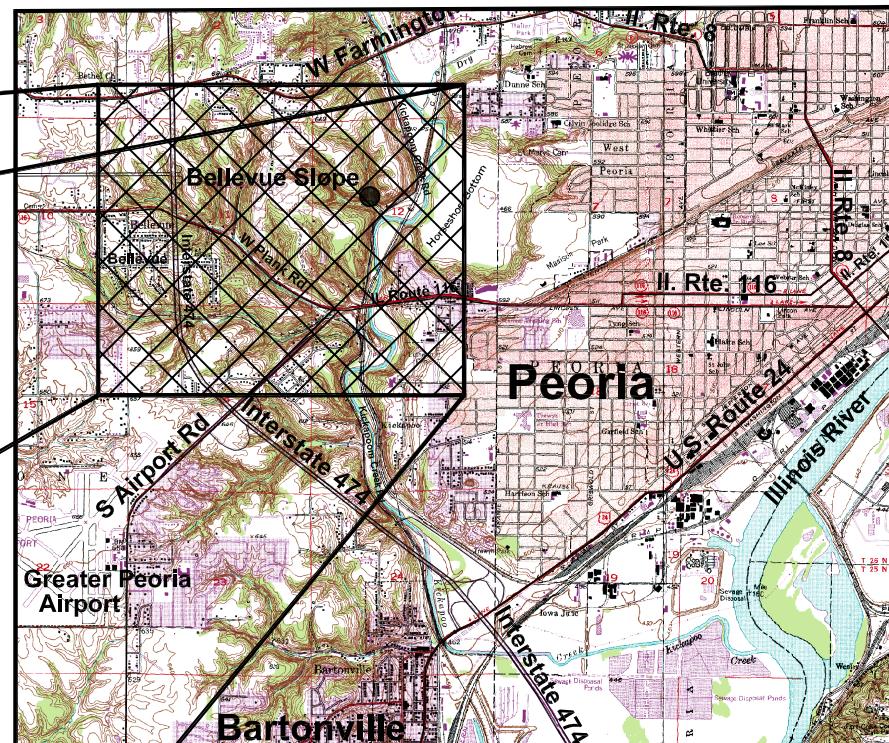
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Drawn By: T. Maddox Date: 08/2017
Checked By: _____

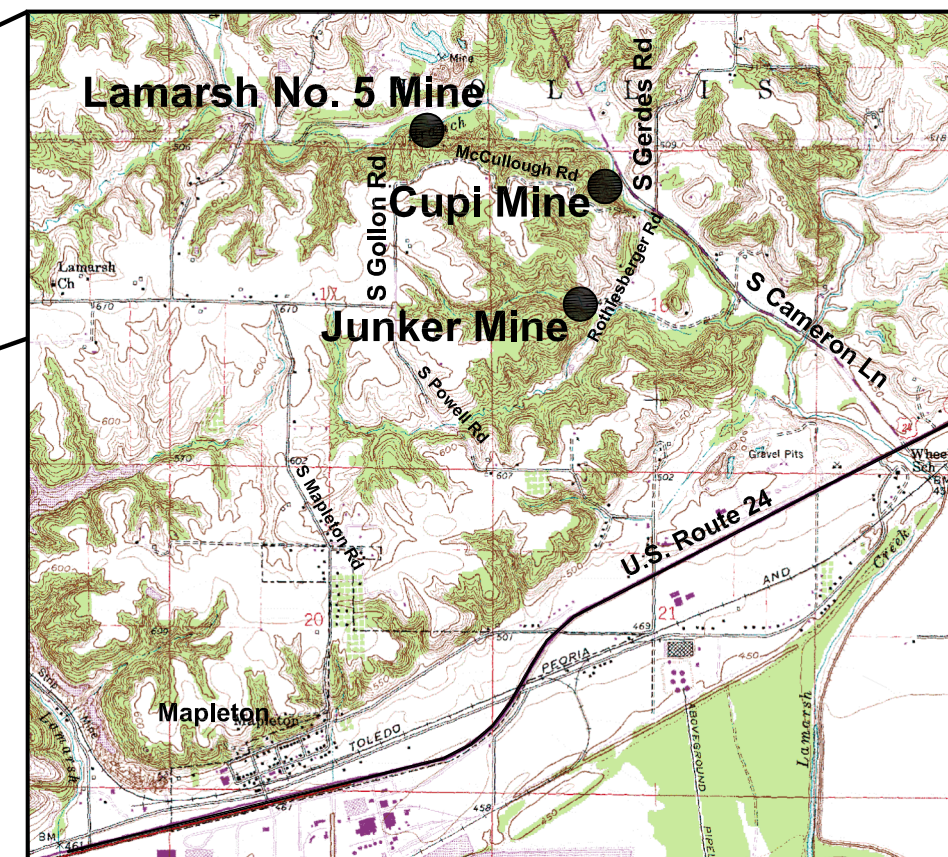
Summary of Quantities /
General Notes
Sheet
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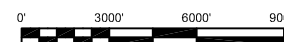
Location Map - Bellevue Area

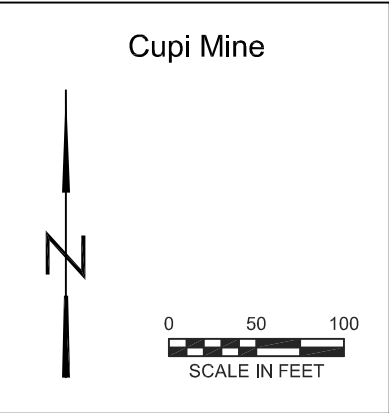
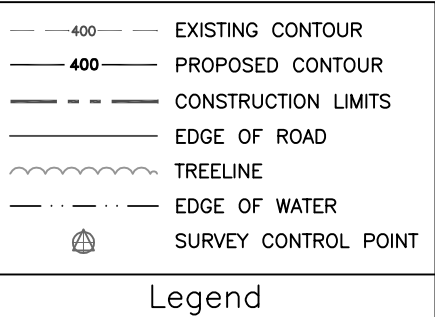
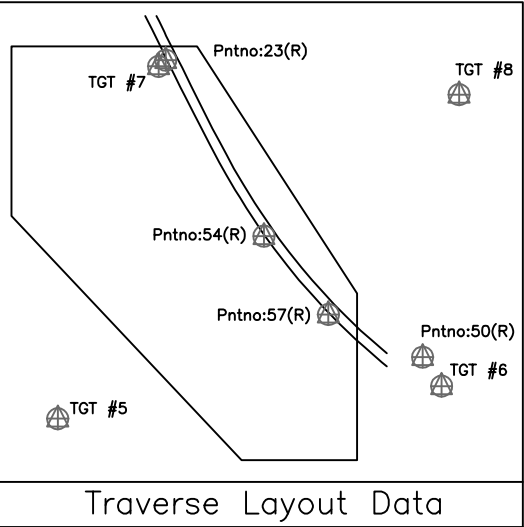
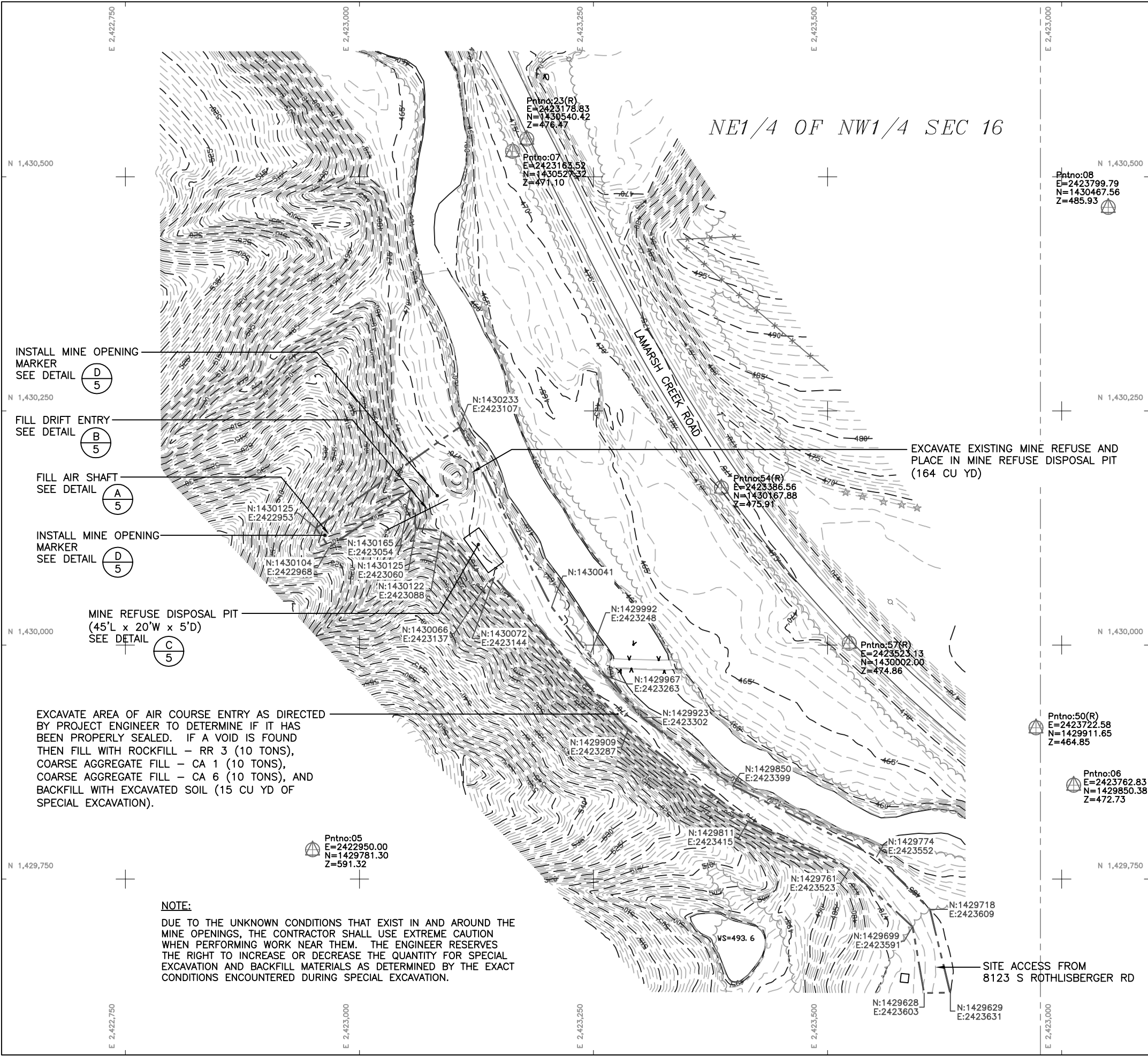


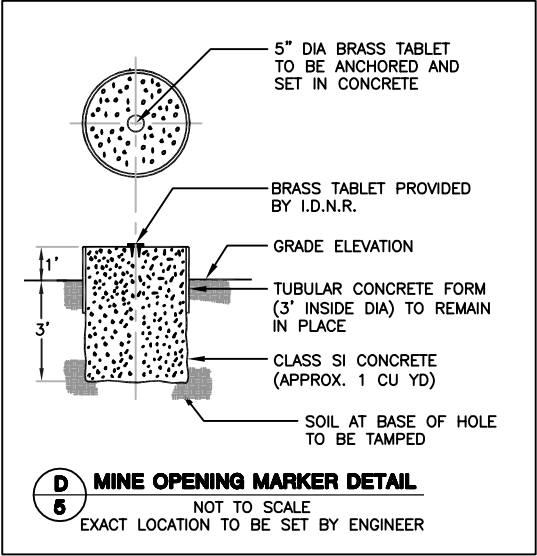
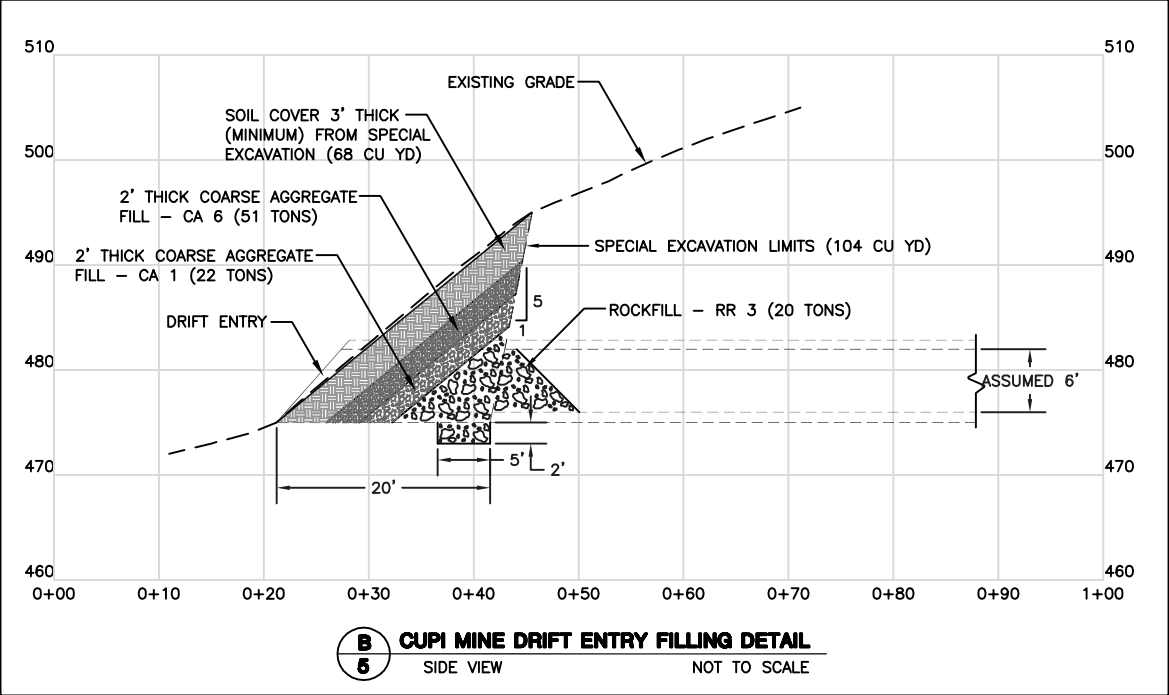
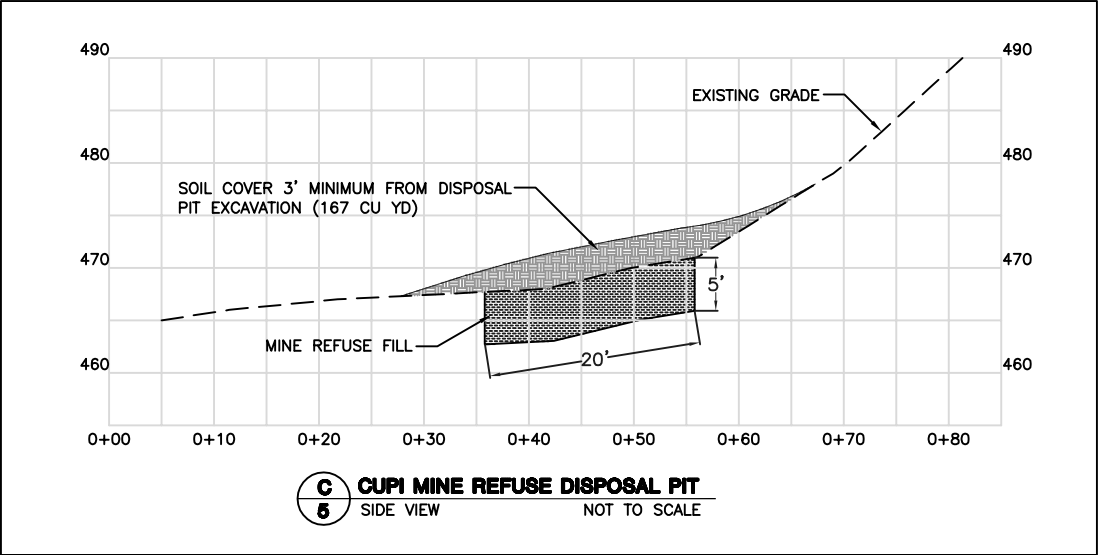
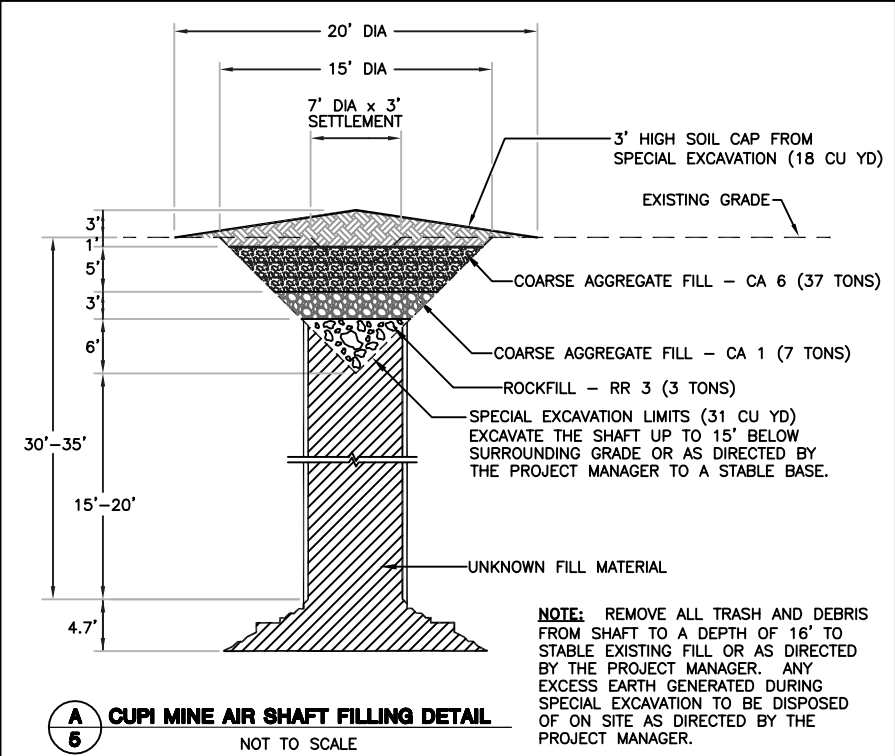
Location Map - Mine Group Area



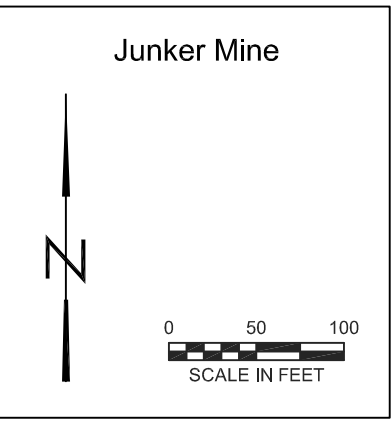
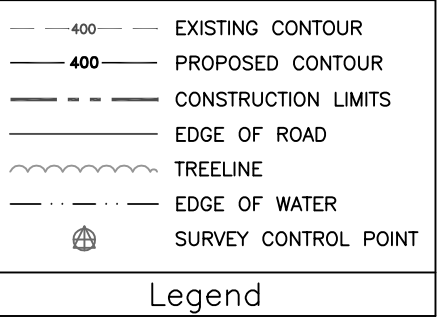
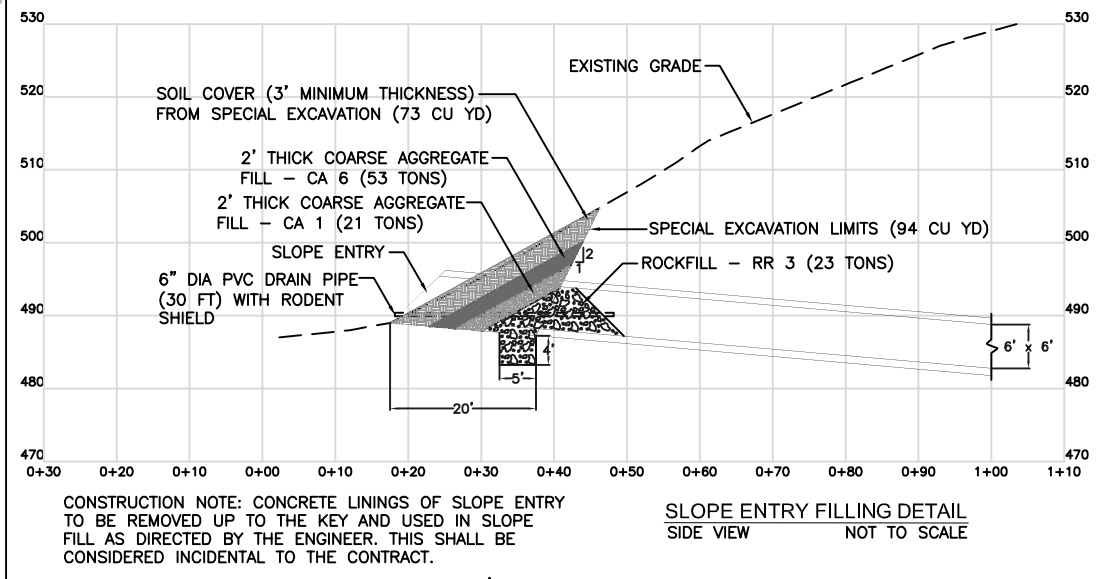
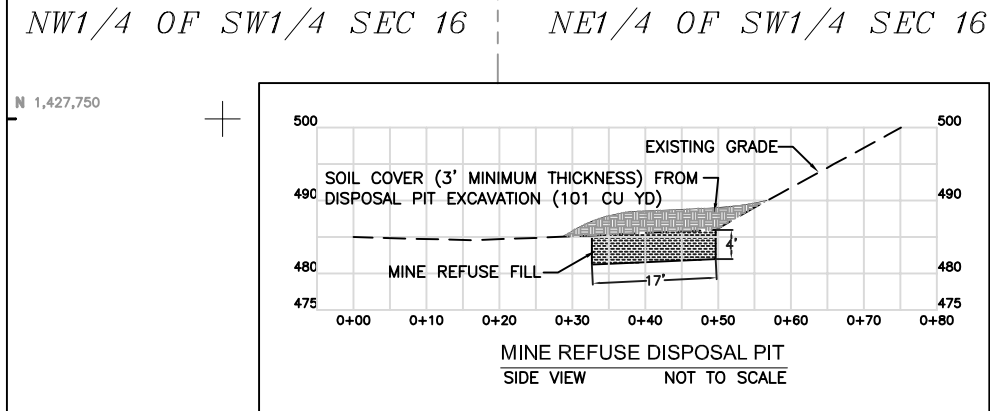
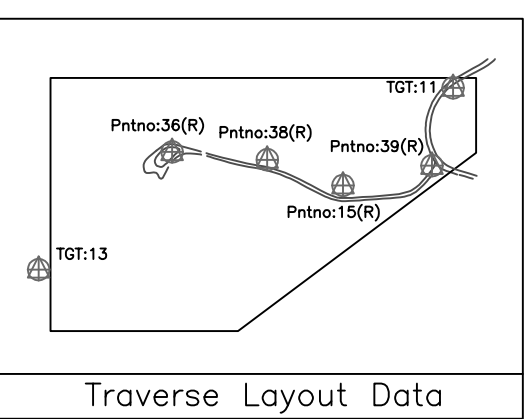
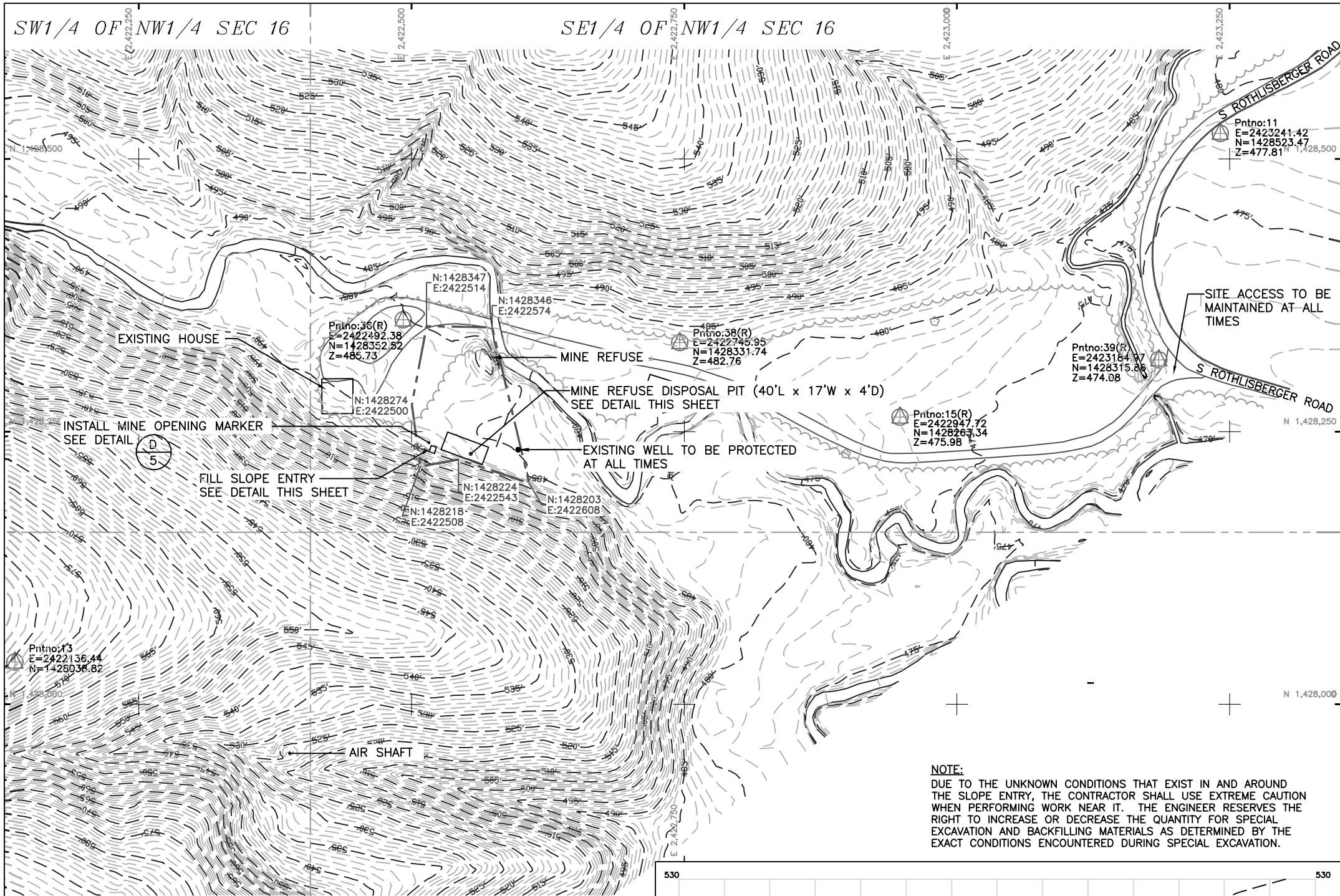
Location Map - Mapleton Area

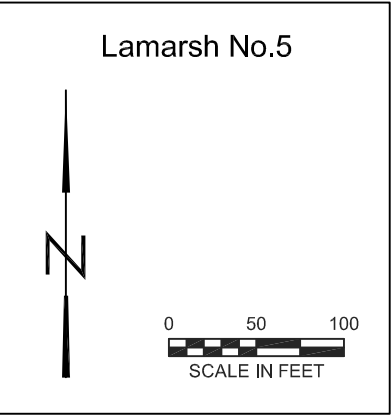
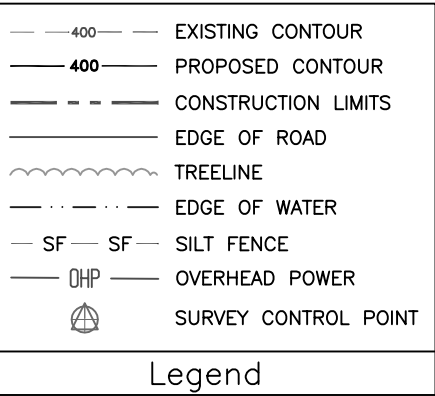
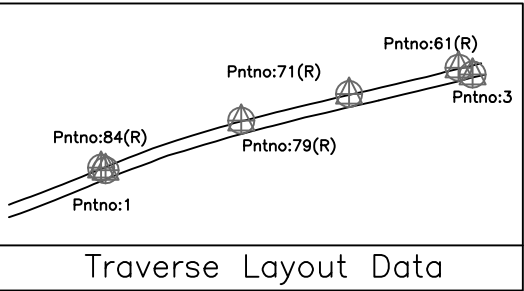
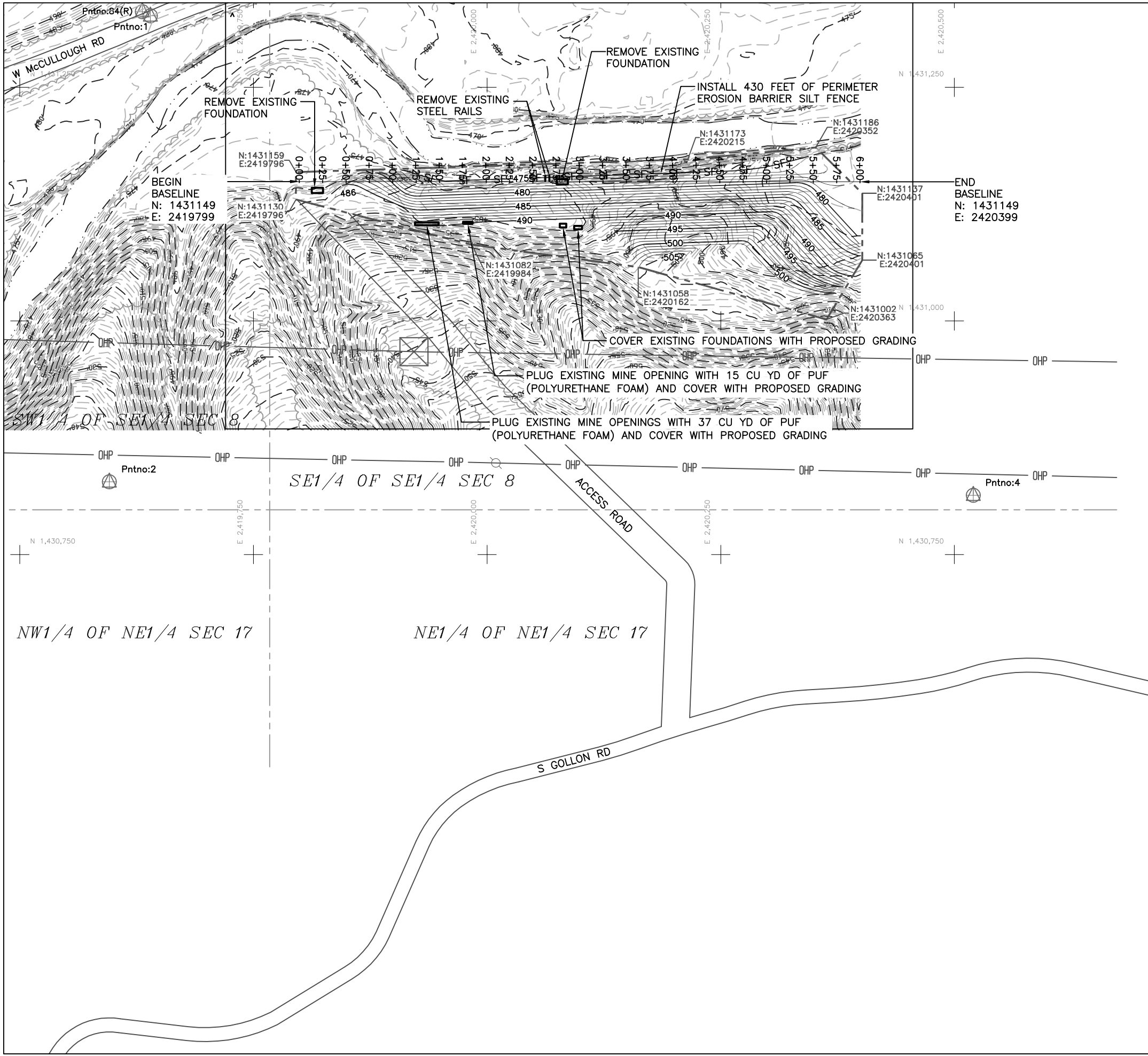






NOTE:
DUE TO THE UNKNOWN CONDITIONS THAT EXIST IN AND AROUND THE MINE OPENINGS, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING WORK NEAR THEM. THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITY FOR SPECIAL EXCAVATION AND BACKFILLING MATERIALS AS DETERMINED BY THE EXACT CONDITIONS ENCOUNTERED DURING SPECIAL EXCAVATION.





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EXISTING GRADE

PROPOSED GRADE

EARTH CUT

EARTH FILL

Legend

The figure displays a series of cross-section diagrams for the Cupi Mine Group Reclamation Project. Each diagram shows the existing grade (dashed line) and the proposed grade (solid line). The diagrams are arranged in a grid, with stationing points labeled in circles. The vertical axis represents elevation in feet, ranging from 460 to 540. The horizontal axis represents distance in feet, ranging from 50 to 150. The diagrams show the earth cut (hatched area) and earth fill (cross-hatched area) volumes for each stationing point.

Stationing Point	Earth Cut (S.F.)	Earth Fill (S.F.)
0+00	0	0
0+25	0	0
0+50	17	0
1+00	128	0
1+25	192	41
1+50	60	55
1+75	43	58
2+00	17	93
2+25	77	153
2+50	123	179
2+75	159	200
3+00	241	141
3+25	346	0
3+50	491	0

Horizontal Scale 50
Vertical Scale 20

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