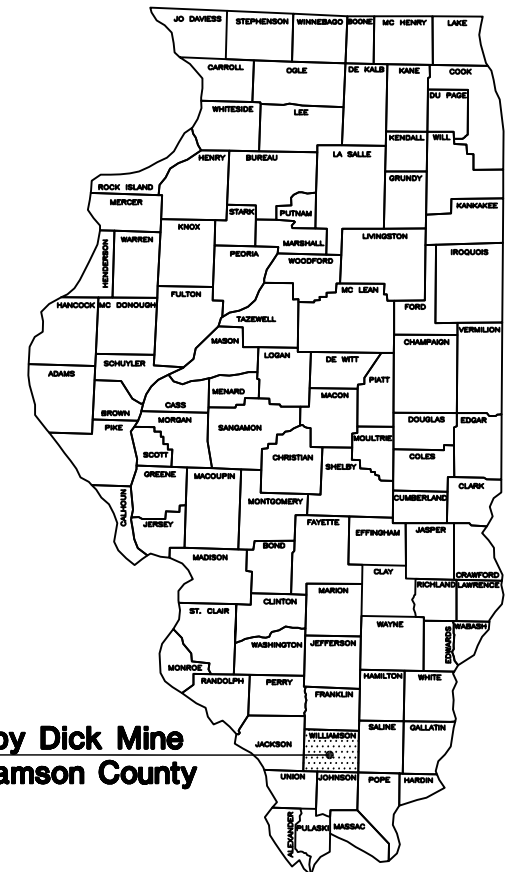


**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

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

**Bobby Dick Mine**  
**Reclamation Project**  
**AML-GWmE-1103**  
**Williamson County**  
**2LR**

**Certified Copy**



**Bobby Dick Mine**  
**Williamson County**

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 9:00 A.M. THURSDAY, SEPTEMBER 15<sup>TH</sup>, 2011. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE ENTRANCE OF THE PROJECT SITE, APPROXIMATELY TWO MILES NORTHEAST OF HERRIN, ALONG FREEMAN SPUR ROAD (COUNTY HIGHWAY 17).


SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Site Layout/Survey Control Point Data
4. Existing Conditions
5. Proposed Conditions
- 6.-10. Cross Sections
11. Details

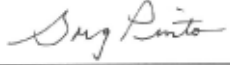
*I.D.O.T. Standard 280001-05*

Prepared By IDNR Staff


Approved for Bidding:

  
Joseph R. 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	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	25,311	C.Y.	Compaction per Section 205
3	Mine Refuse Excavation	202	8,821	C.Y.	Compaction per Section 205
4	Special Excavation	214	970	C.Y.	Compaction per Section 205
5	CA-6 Fill	216	1,214	Ton	
6	CA-1 Fill	216	212	Ton	
7	Riprap Fill, C-3	216	226	Ton	
8	Filter Fabric for use with Riprap	216	556	S.Y.	
9	Seeding	250	17.0	Acre	
10	Agricultural Ground Limestone	250	170	Ton	Application Rate - 10 Tons/Acre
11	Nitrogen Fertilizer Nutrient	250	3,400	Pound	See Schedule Below
12	Phosphorus Fertilizer Nutrient	250	2,380	Pound	
13	Potassium Fertilizer Nutrient	250	1,700	Pound	
14	Mulch Method 2, Procedure 1	IDOT 251	17.0	Acre	2 Tons/Acre
15	Mine Refuse Treatment - Limestone	255	260	Ton	Application Rate - 20 Tons/Acre
16	Mowing	258	17.0	Acre	
17	Temporary Ditch Checks	280	2	Each	Hay or Straw Bales See Detail G-11
18	Perimeter Erosion Barrier	280	765	Foot	Silt Fence Required IDOT Std. 280001-05
19	Special Excelsior Blanket	286	6,284	S.Y.	8 Feet Wide Strips
20	Aggregate Base Course, Type B, CA-6	IDOT 351	859	Ton	4" Lifts, 8" Total Thickness
21	Removal of Existing Structures	501	1	L.S.	See Structure and Building Removal Data Table in Sheet #3
22	Building Debris Removal and Disposal of Non-Friable Asbestos Containing Material	595	1	L.S.	See Structure and Building Removal Data Table in Sheet #3
23	Entrance Gate	665	1	Each	
24	Barbed Wire Fence	665	375	Foot	
25	Mine Opening Marker	666	2	Each	
26	Mobilization (Max. of 6 % of Bid)	671	1	L.S.	

**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 clearing shall be completed prior to April 1, 2011.

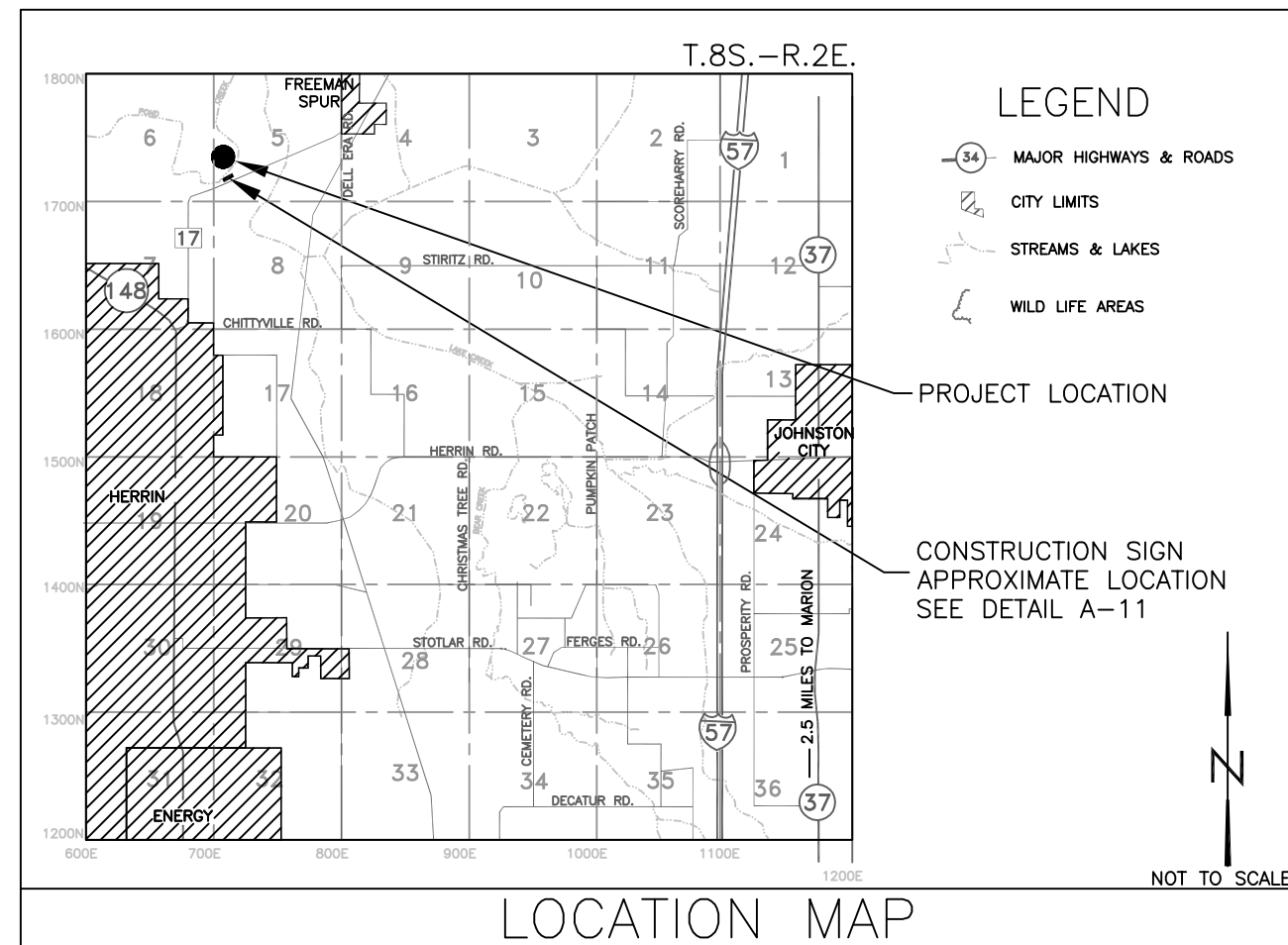
**ACID WATER TREATMENT**-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

**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.

**MINE REFUSE TREATMENT**- After mine refuse has been graded to the subgrade shown in the plans, agricultural ground limestone shall be uniformly spread at the rate specified in the plans. A 3 inch layer of soil shall then be spread over the mine refuse treatment area and blended to a depth of 6 inches with an industrial offset disk approved by the engineer. Treated areas shall then be covered with 33 inches of soil.



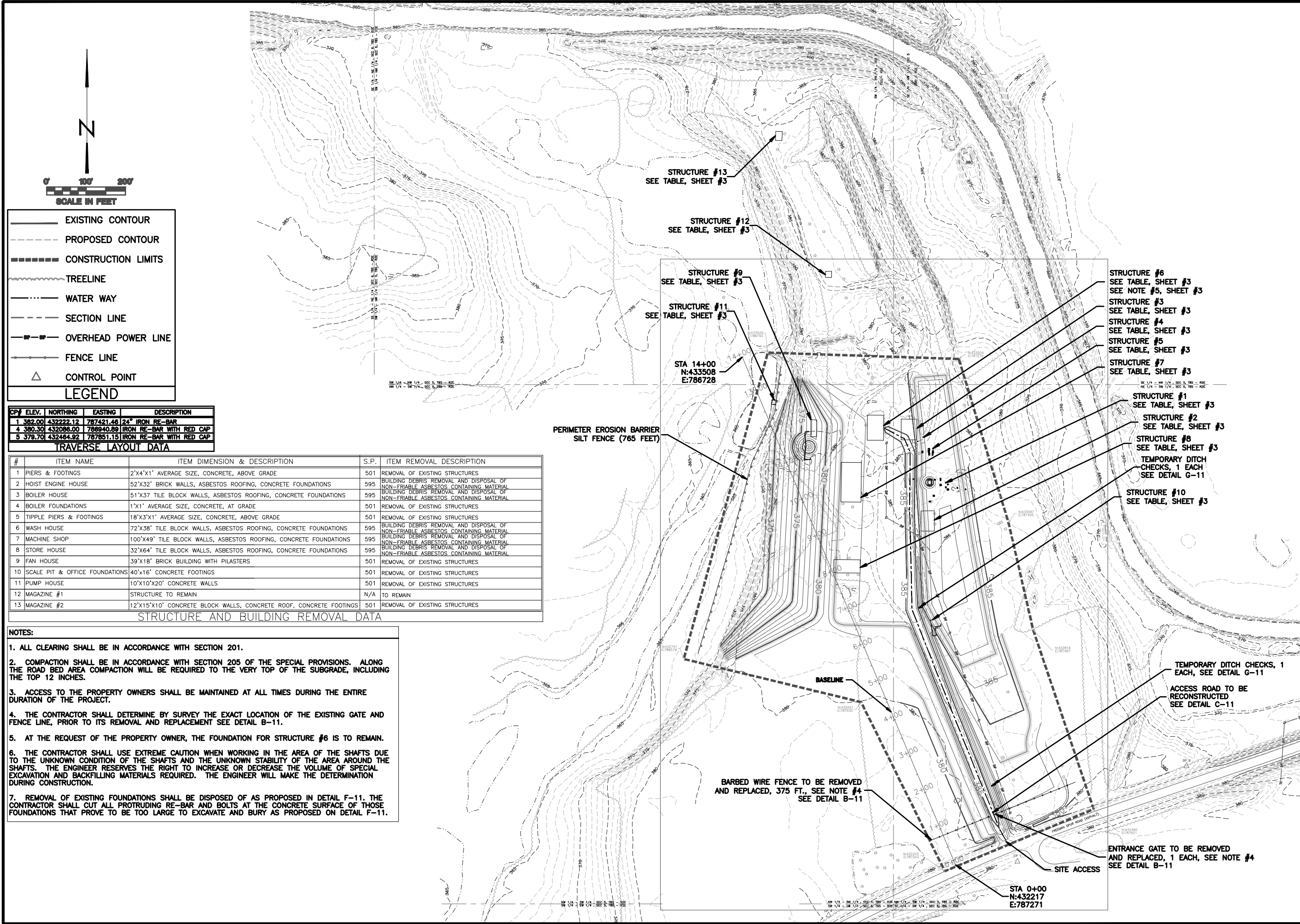
Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing				
ITEM (unit)	FALL 2012 AUG. 20 - SEPT. 30	SPRING 2013 APR. 20 - MAY 15	SPRING 2013 MAY 15 - JUN. 15	TOTAL QUANTITY
SEEDING (acres)	17.0			17.0
AGRICULTURAL GROUND LIMESTONE (tons)	170 10 T/A		Actual Date to be Approved by Engineer	170
NITROGEN FERTILIZER NUTRIENT (pounds)	1,700 100 Lb./A	1,700 100 Lb./A		3,400
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	2,380 140 Lb./A			2,380
POTASSIUM FERTILIZER NUTRIENT (pounds)	1,700 100 Lb./A			1,700
MULCH, METHOD 2 PROCEDURE 1 (acre)	17.0 2 T/A			17.0
MOWING (acres)			17.0	17.0

State of Illinois  
Department of Natural Resources

Freeman Mining Co.  
Bobby Dick Mine  
Reclamation Project  
AML-GWmE-1103  
Williamson County

Drawn By : OMA  
Checked By :  
Date : 08-05-11

Summary of Quantities/  
General Notes/Location Map  
Sheet 2 of 11



**LEGEND**

- EXISTING CONTOUR
- - - PROPOSED CONTOUR
- ===== CONSTRUCTION LIMITS
- ~~~~~ TREELINE
- · — · — WATER WAY
- - - SECTION LINE
- — — OVERHEAD POWER LINE
- — — FENCE LINE
- △ CONTROL POINT

**TRAVERSE LAYOUT DATA**

CP#	ELEV.	NORTHING	EASTING	DESCRIPTION
1	382.00	432222.12	787421.46	24" IRON RE-BAR
4	380.30	432086.00	788940.89	IRON RE-BAR WITH RED CAP
5	378.70	432484.92	787851.15	IRON RE-BAR WITH RED CAP

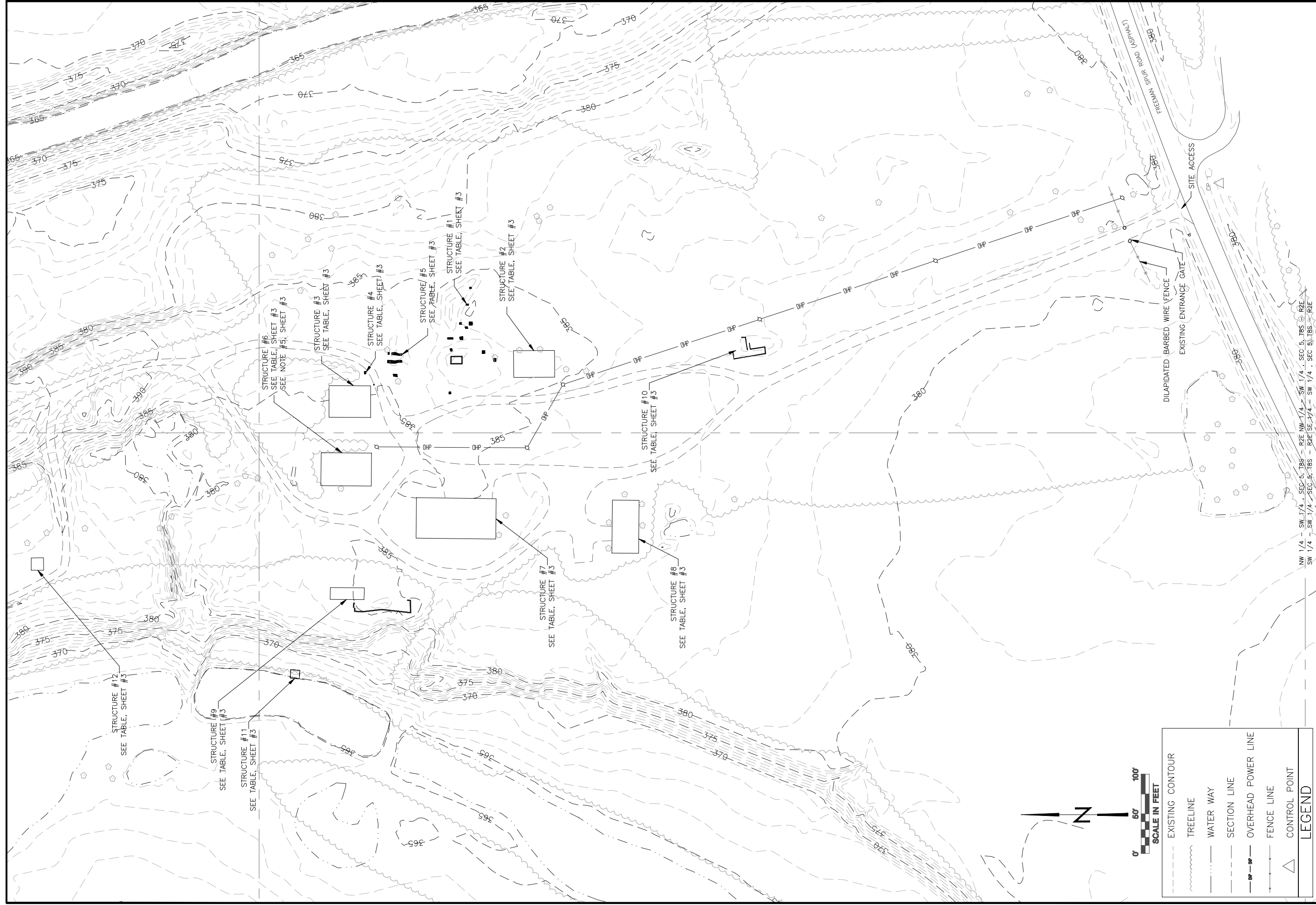
**STRUCTURE AND BUILDING REMOVAL DATA**

#	ITEM NAME	ITEM DIMENSION & DESCRIPTION	S.P.	ITEM REMOVAL DESCRIPTION
1	PIERS & FOOTINGS	2'x4'x1' AVERAGE SIZE, CONCRETE, ABOVE GRADE	501	REMOVAL OF EXISTING STRUCTURES
2	HOIST ENGINE HOUSE	52'x32' BRICK WALLS, ASBESTOS ROOFING, CONCRETE FOUNDATIONS	595	BUILDING DEBRIS REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS CONTAINING MATERIAL
3	BOILER HOUSE	51'x37' TILE BLOCK WALLS, ASBESTOS ROOFING, CONCRETE FOUNDATIONS	595	BUILDING DEBRIS REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS CONTAINING MATERIAL
4	BOILER FOUNDATIONS	1'x1' AVERAGE SIZE, CONCRETE, AT GRADE	501	REMOVAL OF EXISTING STRUCTURES
5	TIPPLE PIERS & FOOTINGS	18'x3'x1' AVERAGE SIZE, CONCRETE, ABOVE GRADE	501	REMOVAL OF EXISTING STRUCTURES
6	WASH HOUSE	72'x38' TILE BLOCK WALLS, ASBESTOS ROOFING, CONCRETE FOUNDATIONS	595	BUILDING DEBRIS REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS CONTAINING MATERIAL
7	MACHINE SHOP	100'x49' TILE BLOCK WALLS, ASBESTOS ROOFING, CONCRETE FOUNDATIONS	595	BUILDING DEBRIS REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS CONTAINING MATERIAL
8	STORE HOUSE	32'x64' TILE BLOCK WALLS, ASBESTOS ROOFING, CONCRETE FOUNDATIONS	595	BUILDING DEBRIS REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS CONTAINING MATERIAL
9	FAN HOUSE	39'x18' BRICK BUILDING WITH PILASTERS	501	REMOVAL OF EXISTING STRUCTURES
10	SCALE PIT & OFFICE FOUNDATIONS	40'x16' CONCRETE FOOTINGS	501	REMOVAL OF EXISTING STRUCTURES
11	PUMP HOUSE	10'x10'x20' CONCRETE WALLS	501	REMOVAL OF EXISTING STRUCTURES
12	MAGAZINE #1	STRUCTURE TO REMAIN	N/A	TO REMAIN
13	MAGAZINE #2	12'x15'x10' CONCRETE BLOCK WALLS, CONCRETE ROOF, CONCRETE FOOTINGS	501	REMOVAL OF EXISTING STRUCTURES

- NOTES:**
- ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201.
  - COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS. ALONG THE ROAD BED AREA COMPACTION WILL BE REQUIRED TO THE VERY TOP OF THE SUBGRADE, INCLUDING THE TOP 12 INCHES.
  - ACCESS TO THE PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES DURING THE ENTIRE DURATION OF THE PROJECT.
  - THE CONTRACTOR SHALL DETERMINE BY SURVEY THE EXACT LOCATION OF THE EXISTING GATE AND FENCE LINE, PRIOR TO ITS REMOVAL AND REPLACEMENT SEE DETAIL B-11.
  - AT THE REQUEST OF THE PROPERTY OWNER, THE FOUNDATION FOR STRUCTURE #6 IS TO REMAIN.
  - THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE AREA OF THE SHAFTS DUE TO THE UNKNOWN CONDITION OF THE SHAFTS AND THE UNKNOWN STABILITY OF THE AREA AROUND THE SHAFTS. THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE VOLUME OF SPECIAL EXCAVATION AND BACKFILLING MATERIALS REQUIRED. THE ENGINEER WILL MAKE THE DETERMINATION DURING CONSTRUCTION.
  - REMOVAL OF EXISTING FOUNDATIONS SHALL BE DISPOSED OF AS PROPOSED IN DETAIL F-11. THE CONTRACTOR SHALL CUT ALL PROTRUDING RE-BAR AND BOLTS AT THE CONCRETE SURFACE OF THOSE FOUNDATIONS THAT PROVE TO BE TOO LARGE TO EXCAVATE AND BURY AS PROPOSED ON DETAIL F-11.

- STRUCTURE #6  
SEE TABLE, SHEET #3  
SEE NOTE #5, SHEET #3
- STRUCTURE #3  
SEE TABLE, SHEET #3
- STRUCTURE #4  
SEE TABLE, SHEET #3
- STRUCTURE #5  
SEE TABLE, SHEET #3
- STRUCTURE #7  
SEE TABLE, SHEET #3
- STRUCTURE #1  
SEE TABLE, SHEET #3
- STRUCTURE #2  
SEE TABLE, SHEET #3
- STRUCTURE #8  
SEE TABLE, SHEET #3
- TEMPORARY DITCH CHECKS, 1 EACH  
SEE DETAIL G-11
- STRUCTURE #10  
SEE TABLE, SHEET #3

- TEMPORARY DITCH CHECKS, 1 EACH, SEE DETAIL G-11
- ACCESS ROAD TO BE RECONSTRUCTED  
SEE DETAIL C-11
- ENTRANCE GATE TO BE REMOVED AND REPLACED, 1 EACH, SEE NOTE #4  
SEE DETAIL B-11



NW 1/4 - SW 1/4 - SEC 5, T8S - R2E NW 1/4 - SW 1/4 - SEC 5, T8S R2E  
 SW 1/4 - SW 1/4 - SEC 5, T8S - R2E SE 1/4 - SW 1/4 - SEC 5, T8S - R2E

LEGEND	
- - - - -	EXISTING CONTOUR
~~~~~	TREELINE
~~~~~	WATER WAY
- - - - -	SECTION LINE
-OP-OP-	OVERHEAD POWER LINE
—+—+—	FENCE LINE
△	CONTROL POINT

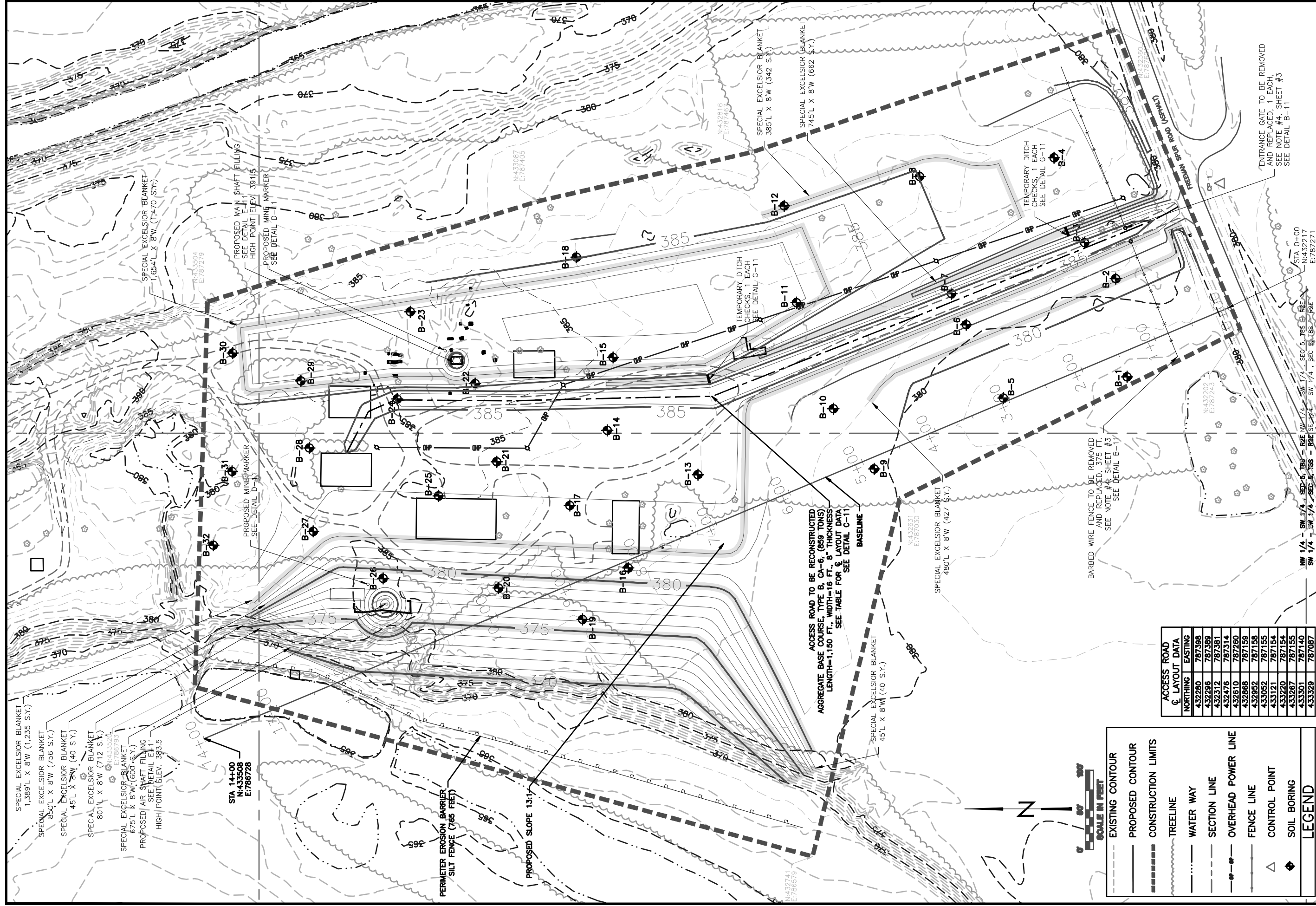
**Existing Conditions**

**Sheet 4 of 11**

Drawn By: OMA  
 Checked By: \_\_\_\_\_  
 Date: 06-06-11

**Freeman Mining Co.  
 Bobby Dick Mine  
 Reclamation Project  
 AML-GWmE-1103  
 Williamson County**

**State of Illinois  
 Department of Natural Resources**



SPECIAL EXCELSIOR BLANKET  
1,389'L X 8'W (1,235 S.Y.)

SPECIAL EXCELSIOR BLANKET  
850'L X 8'W (756 S.Y.)

SPECIAL EXCELSIOR BLANKET  
45'L X 8'W (40 S.Y.)

SPECIAL EXCELSIOR BLANKET  
801'L X 8'W (712 S.Y.)

SPECIAL EXCELSIOR-BLANKET  
E787279

PROPOSED AIR SHAFT FILLING  
SEE DETAIL EA-11  
HIGH POINT ELEV. 393.5

STA 14+00  
N+433508  
E+786728

PERIMETER EROSION BARRIER  
SILT FENCE (765 FEET)

PROPOSED SLOPE 13:1

PROPOSED MAIN SHAFT FILLING  
SEE DETAIL E-11  
HIGH POINT ELEV. 391.5

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

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SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

PROPOSED MINE MARKER  
SEE DETAIL D-11

ACCESS ROAD C LAYOUT DATA	
NORTHING	EASTING
432280	787398
432296	787389
432312	787381
432476	787314
432610	787260
432868	787159
432952	787158
433052	787155
433121	787154
433220	787154
433267	787155
433301	787140
433329	787087

LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	TREELINE
	WATER WAY
	SECTION LINE
	OVERHEAD POWER LINE
	FENCE LINE
	CONTROL POINT
	SOIL BORING

ACCESS ROAD TO BE RECONSTRUCTED  
AGGREGATE BASE COURSE, TYPE B, CA-6, (859 TONS)  
LENGTH=1,150 FT., WIDTH=16 FT., 8" THICKNESS  
SEE TABLE FOR C LAYOUT DATA  
SEE DETAIL C-11

SPECIAL EXCELSIOR BLANKET  
480'L X 8'W (427 S.Y.)

BARBED WIRE FENCE TO BE REMOVED  
AND REPLACED, 375 FT.  
SEE NOTE #4, SHEET #3  
SEE DETAIL B-11

ENTRANCE GATE TO BE REMOVED  
AND REPLACED, 1 EACH,  
SEE NOTE #4, SHEET #3  
SEE DETAIL B-11

STA. 0+00  
N+432217  
E+787217

Drawn By: GMA Date: 08-08-11  
Checked By:

Proposed Conditions

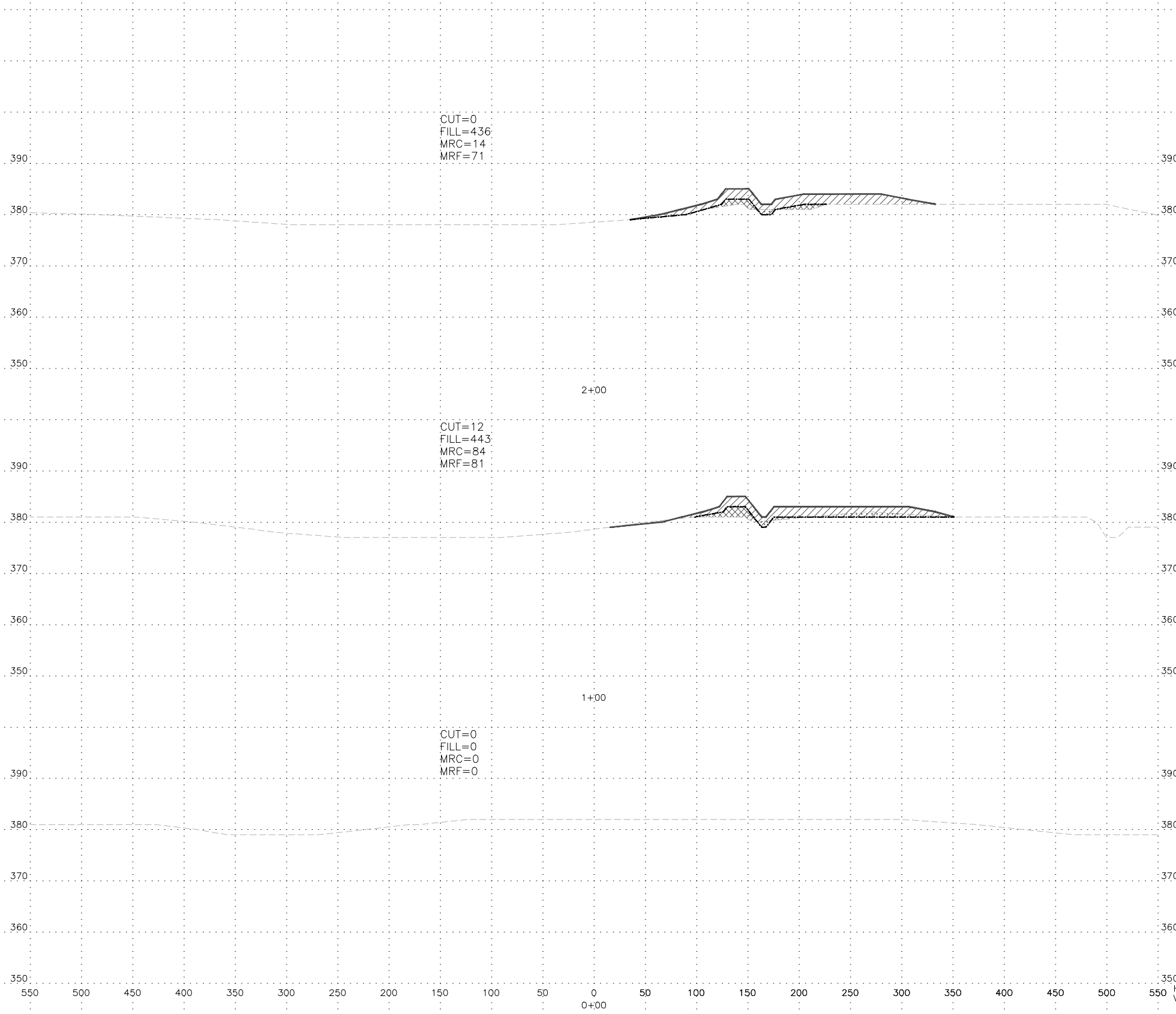
Sheet 5 of 11

Freeman Mining Co.  
Bobby Dick Mine  
Reclamation Project  
AML-GWmE-1103  
Williamson County

State of Illinois  
Department of Natural Resources

**LEGEND**

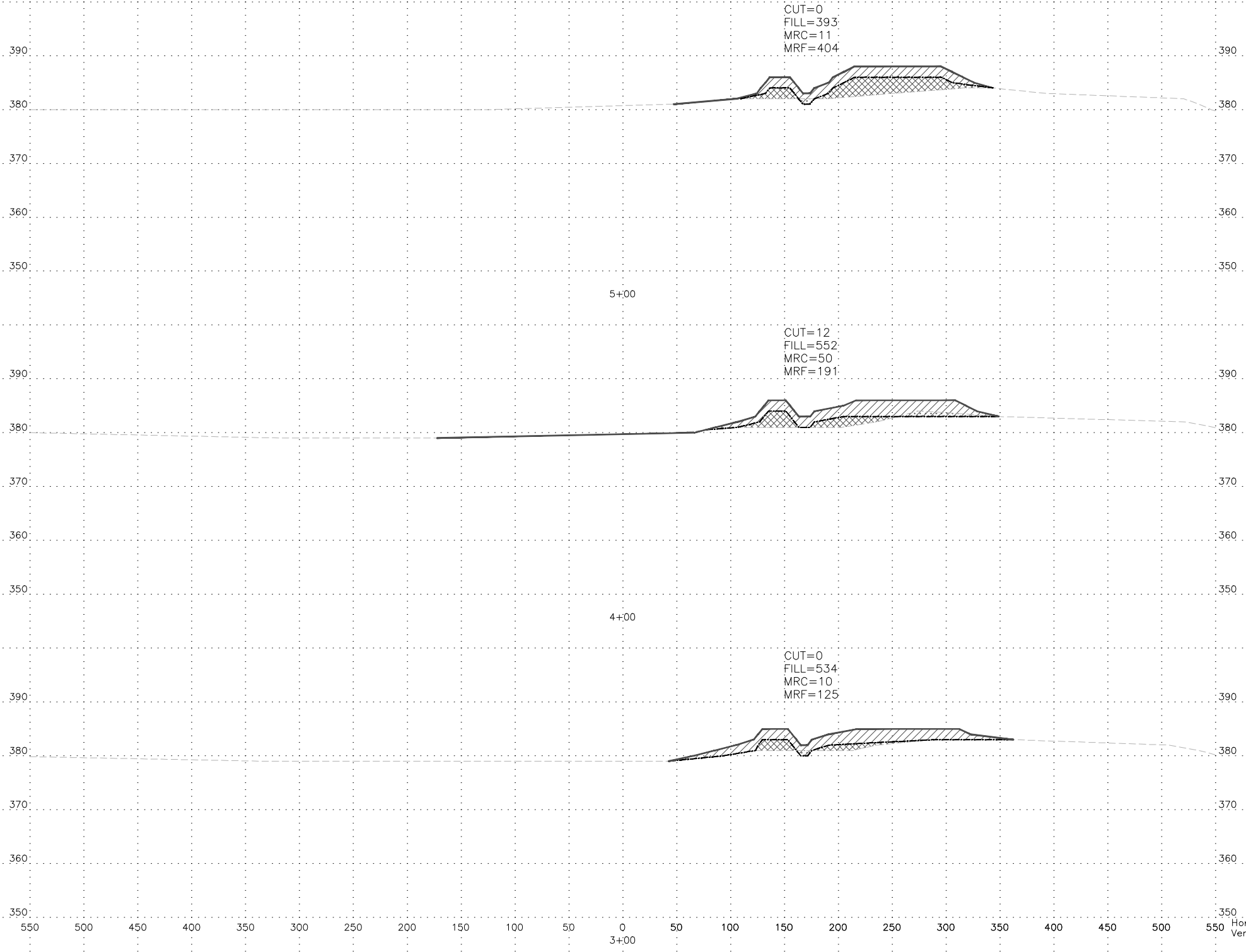
- EXISTING GRADE
- PROPOSED SUB-GRADE  
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ▨ EARTH CUT - CUT (SQ. FT.)
- ▩ EARTH FILL - FILL (SQ. FT.)
- ▤ MINE REFUSE CUT - MRC (SQ. FT.)
- ▥ MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
Vertical Scale 10

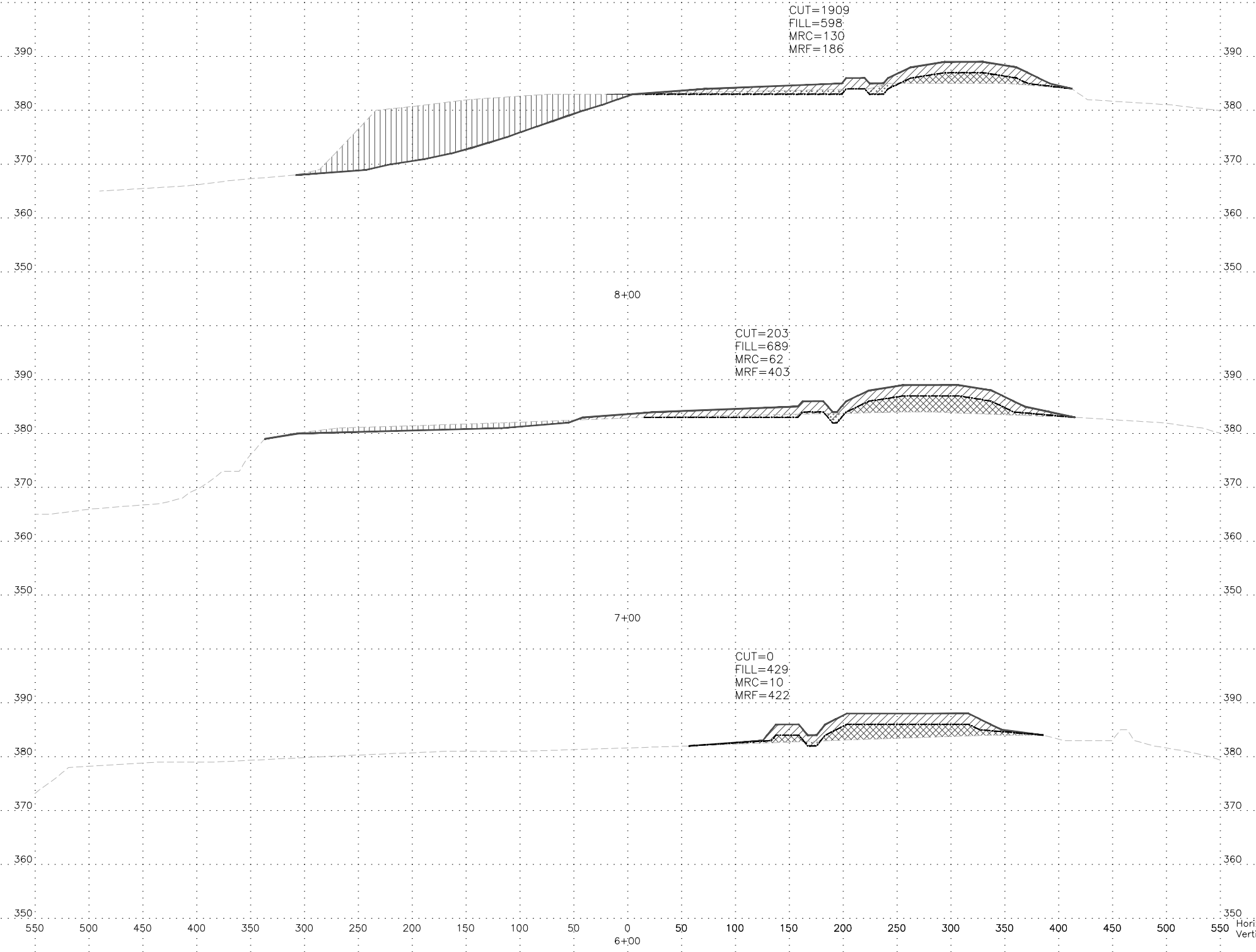
**LEGEND**

- EXISTING GRADE
- PROPOSED SUB-GRADE  
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ▨ EARTH CUT - CUT (SQ. FT.)
- ▩ EARTH FILL - FILL (SQ. FT.)
- ▤ MINE REFUSE CUT - MRC (SQ. FT.)
- ▥ MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
Vertical Scale 10

LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
---	PROPOSED GRADE
[Vertical Lines]	EARTH CUT - CUT (SQ. FT.)
[Diagonal Lines]	EARTH FILL - FILL (SQ. FT.)
[Dotted Pattern]	MINE REFUSE CUT - MRC (SQ. FT.)
[Cross-hatch Pattern]	MINE REFUSE FILL - MRF (SQ. FT.)

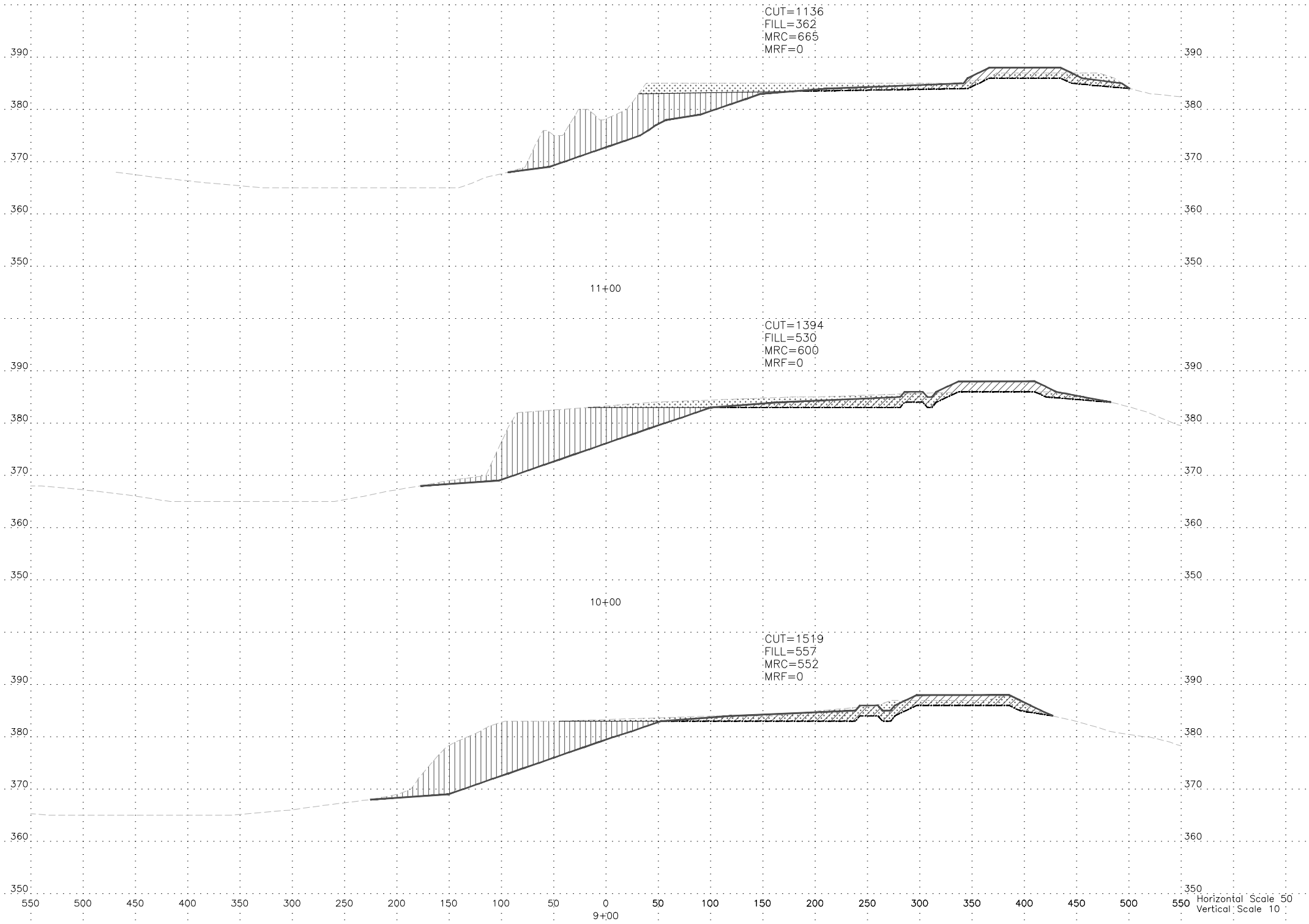


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Vertical Scale 10



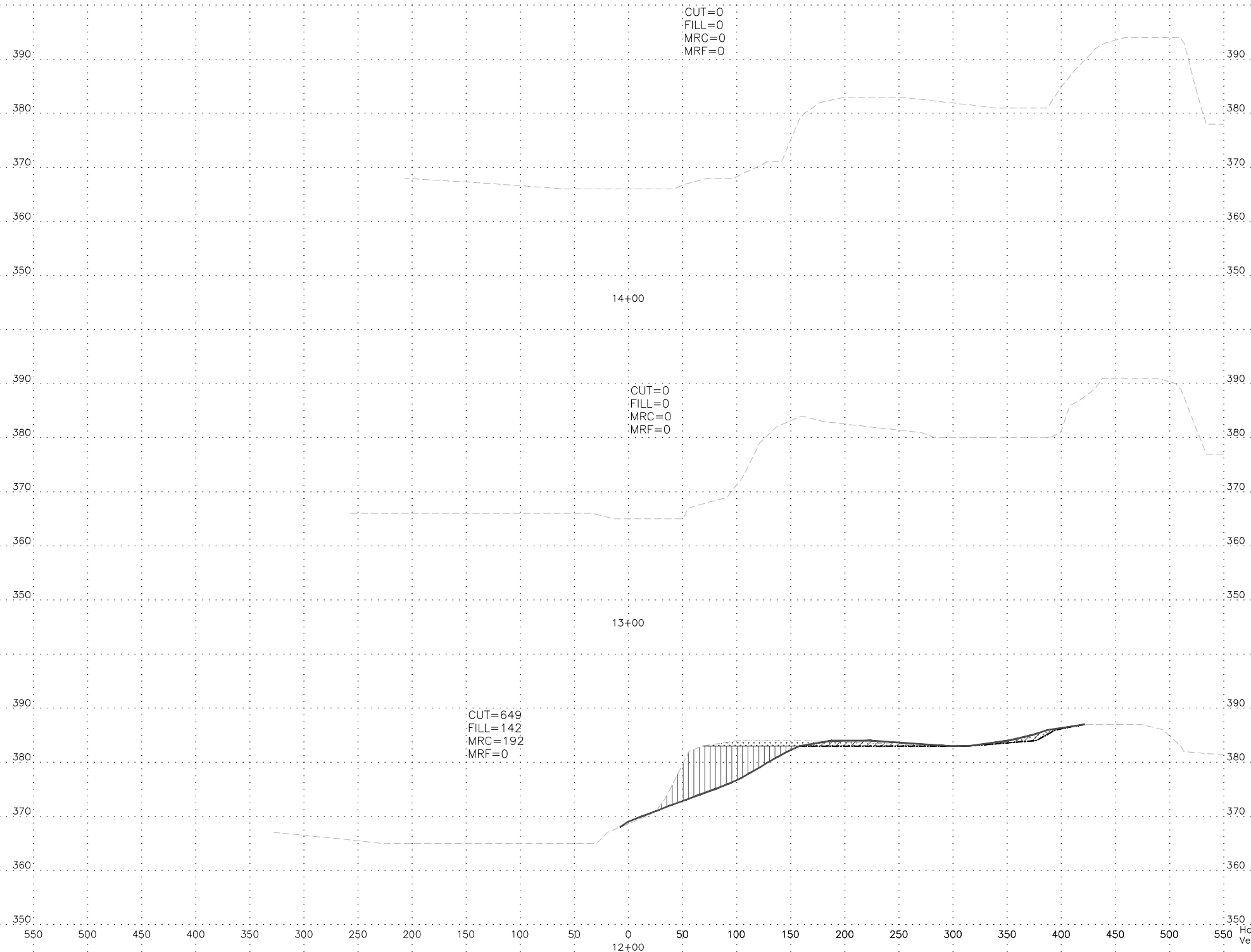
**LEGEND**

- EXISTING GRADE
- PROPOSED SUB-GRADE  
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ||||| EARTH CUT - CUT (SQ. FT.)
- ////// EARTH FILL - FILL (SQ. FT.)
- ..... MINE REFUSE CUT - MRC (SQ. FT.)
- XXXXX MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
 Vertical Scale 10

LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
---	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
***	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
Vertical Scale 10

SPACING LETTERS	
2.0"	
1.5"	3.5"
1.5"	3.5"
1.5"	3.5"
1.5"	3.5"
3.5"	3.0"
3.5"	
1.5"	2.5"
3.5"	2.5"
1.5"	2.0"
2.0"	2.0"

RECLAMATION PROJECT  
of the  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF ILLINOIS

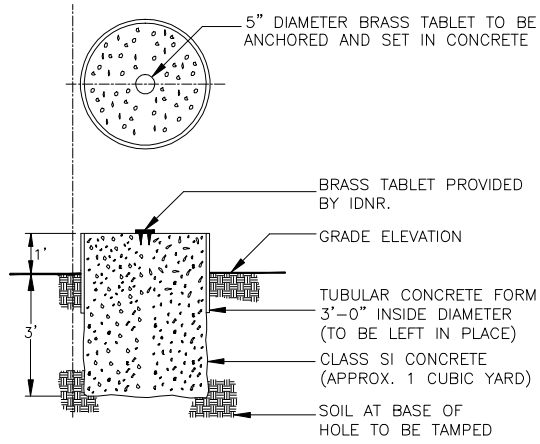
PAT QUINN, GOVERNOR

Marc Miller, Director  
Illinois Dept. of Natural Resources

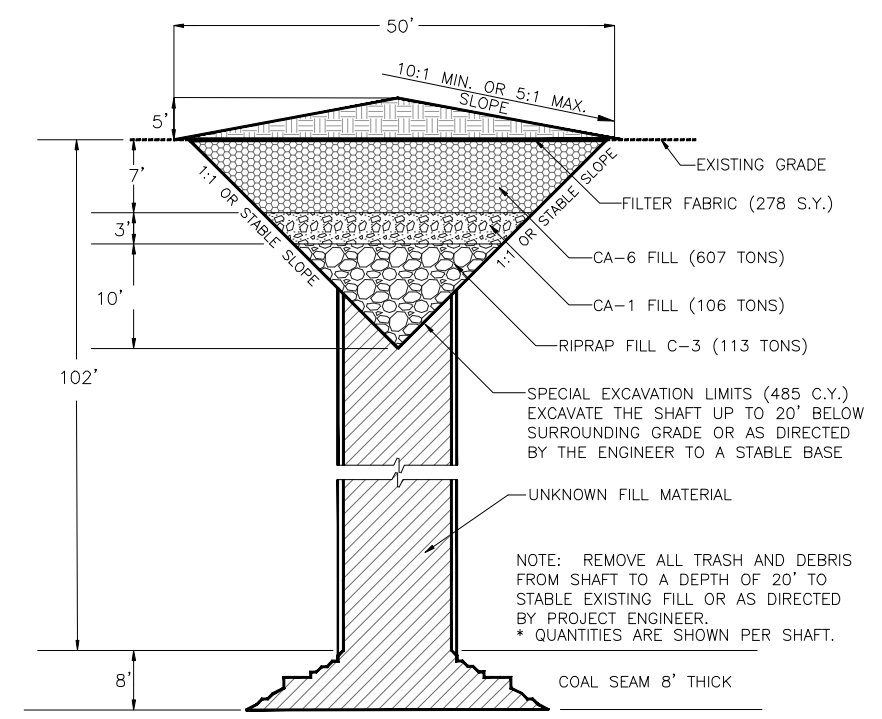
In cooperation with the Office of Surface Mining  
United States Department of the Interior

1. Furnishing, erecting and removing the sign shall be incidental to the contract.
2. The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white.
3. The posts shall be made of 4" x 4" wood or 2.5" metal pipe, and shall be 10' long. The sign shall be securely fastened to the posts with six 2.5" long, round head wood screws (for wood posts) or four 5" long, 3/8" diameter carriage bolts (for wood or metal posts).
4. The top of the sign shall be level with the top of the posts, and the posts shall be 1' from the edges of the sign. The posts shall be set in the ground 3', so that the bottom of the sign is 3' from the ground.

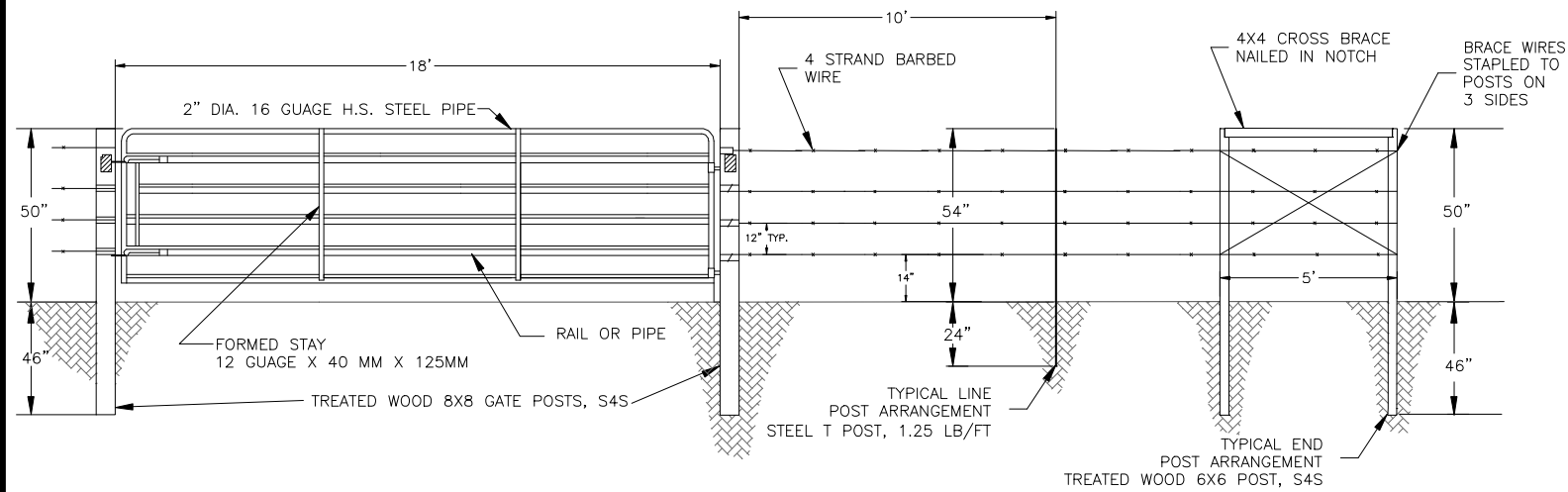
**CONSTRUCTION SIGN DETAIL**  
DETAIL A-11, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



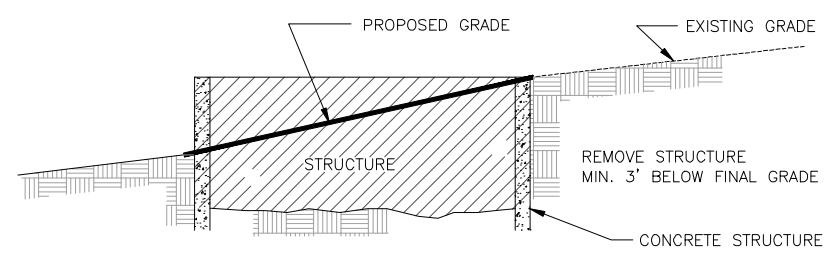
**MINE OPENING MARKER DETAIL**  
DETAIL D-11 - NOT TO SCALE



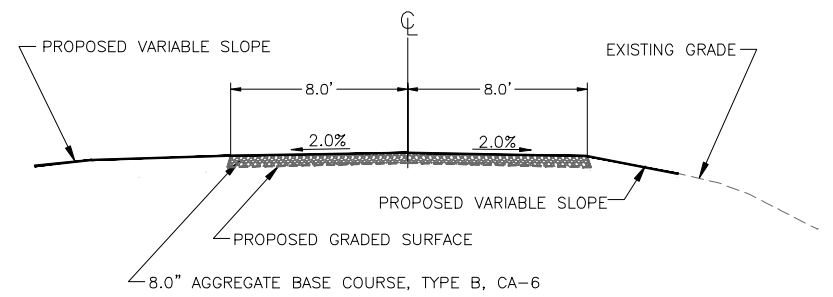
**SHAFT FILLING DETAIL**  
DETAIL E-11 - NOT TO SCALE



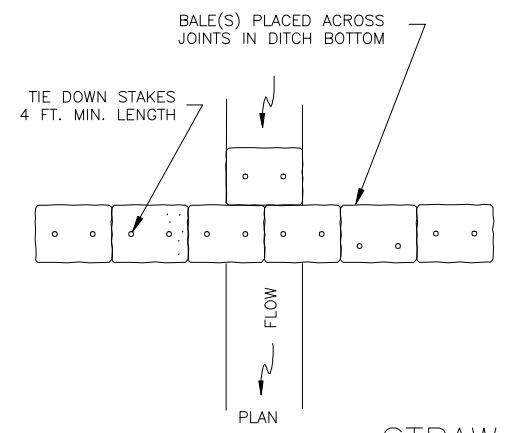
**TYPICAL SECTION - FENCE AND ENTRANCE GATE DETAIL**  
DETAIL B-11 - NOT TO SCALE



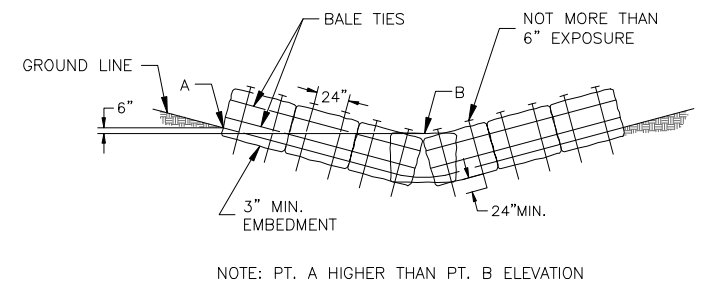
**STRUCTURE REMOVAL DETAIL**  
DETAIL F-11 - TYPICAL SECTION, NOT TO SCALE



**TYPICAL SECTION DETAIL - ACCESS ROAD**  
C-11 - NOT TO SCALE



**STRAW BALES FOR DITCH CHEKS**  
DETAIL G-11, TYPICAL SECTION, NOT TO SCALE



State of Illinois  
Department of Natural Resources

Freeman Mining Co.  
Bobby Dick Mine  
Reclamation Project  
AML-GWmE-1103  
Williamson County

Drawn By:	OMA	Date:	08-05-11
Checked By:			

Details Sheet  
Sheet 11 of 11