

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

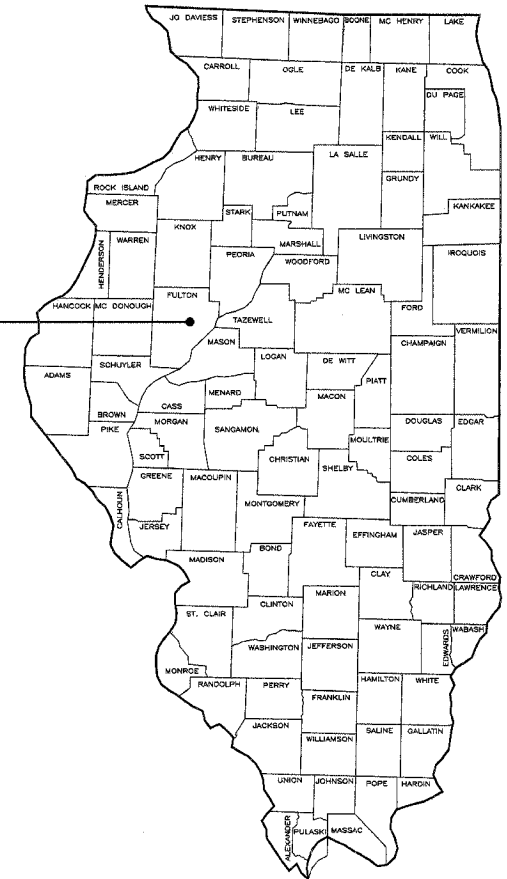
Funded by the  
United States Department of Interior  
Federal Office of Surface Mining

**Red Ember - West**  
**Reclamation Project**  
**AML-GFuE-0504**  
**Fulton County**  
**3LR**

SCHEDULE OF DRAWINGS:

1. Cover Sheet
  2. Summary of Quantities/General Notes/Location Map
  3. Sheet Lay-out/Survey Information
  - 4-17. Existing & Proposed Conditions
  - 18-50. Cross Sections
  51. Details
- IDOT Standard 656001

Red Ember - West  
Fulton County



Pre-Bid Meeting

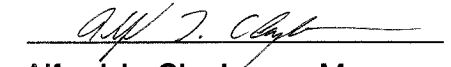
A pre-bid meeting is scheduled for this project at 10:00 A.M., Friday, March 2, 2007  
at the intersection of E. Arrow Road and Tompkins Road, in the Southeast corner of the project.

Prepared By IDNR Staff

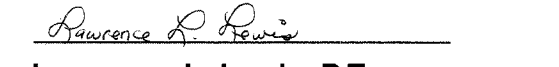
Approved for Bidding:

  
Joseph R. Angleton, Director  
Office of Mines and Minerals

Approved By:

  
Alfred L. Clayborne, Manager  
AML Division

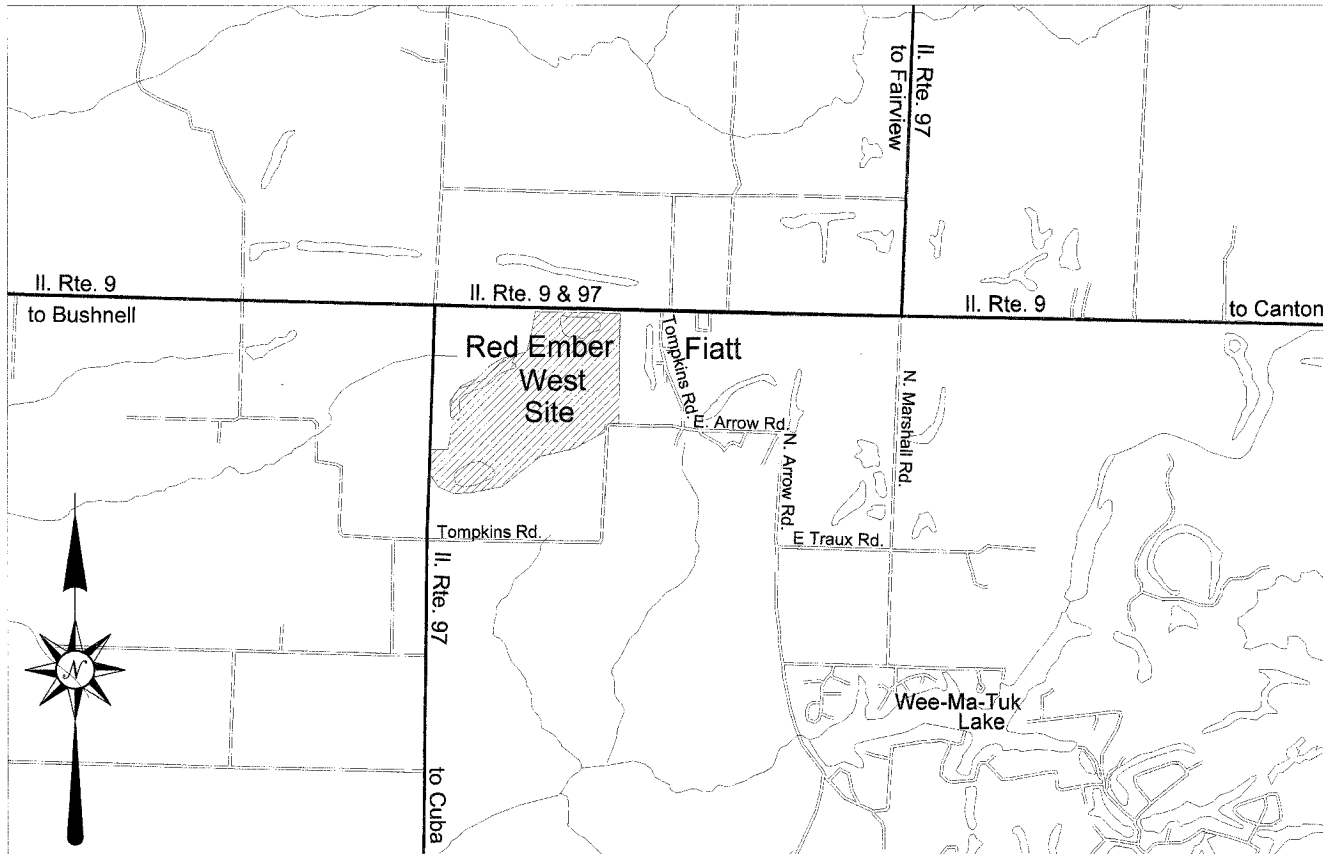
Approved By:

  
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      | 702,313  | C.Y.  | Compaction Required per SP 205 |
| 3  | Mine Refuse Excavation  | 202      | 299,848  | C.Y.  |                                |
| 4  | Seeding   | 250      | 160      | Acre  | See Schedule This Sheet        |
| 5  | Nitrogen Fertilizer Nutrient  | 250      | 38,400   | Pound | See Schedule This Sheet        |
| 6  | Phosphorous Fertilizer Nutrient                                     | 250      | 64,000   | Pound | See Schedule This Sheet        |
| 7  | Potassium Fertilizer Nutrient                                       | 250      | 96,000   | Pound | See Schedule This Sheet        |
| 8  | Agricultural Ground Limestone                                       | 250      | 320      | Ton   | See Schedule This Sheet        |
| 9  | Mulch, Method 2, Procedure 2  | IDOT 251 | 160      | Acre  | See Schedule This Sheet        |
| 10 | Erosion Control Blanket   | IDOT 251 | 9,661    | S.Y.  |                                |
| 11 | Mine Refuse Treatment - Limestone                                   | 255      | 2,050    | Ton   | 50 Ton/Acre                    |
| 12 | Mowing  | 258      | 160      | Acre  | See Schedule This Sheet        |
| 13 | Coal Combustion By-Products Placement                               | 259      | 200,000  | Ton   | See Special Note This Sheet    |
| 14 | Perimeter Erosion Barrier   | IDOT 280 | 1,505    | Foot  |                                |
| 15 | Stone Riprap A-4  | IDOT 281 | 257      | S.Y.  |                                |
| 16 | Filter Fabric for use w/Riprap                                      | IDOT 282 | 257      | S.Y.  |                                |
| 17 | Aggregate Surface Course Type B, CA-1                               | IDOT 402 | 395      | Ton   |                                |
| 18 | Aggregate Surface Course Type B, CA-6                               | IDOT 402 | 59       | Ton   |                                |
| 19 | Pipe Culvert 15" Corrugated Steel Culvert Pipe, Type 1              | IDOT 542 | 80       | Foot  |                                |
| 20 | Steel End Section 15" Dia.  | IDOT 542 | 4        | Each  |                                |
| 21 | Pipe Culvert 36" Corrugated Polyethylene(PE) with a Smooth Interior | IDOT 542 | 50       | Foot  |                                |
| 22 | Dewatering Impoundment 1  | 614      | 1        | L.S.  |                                |
| 23 | Dewatering Impoundment 2  | 614      | 1        | L.S.  |                                |
| 24 | Dewatering Impoundment 3  | 614      | 1        | L.S.  |                                |
| 25 | Dewatering Impoundment 5  | 614      | 1        | L.S.  |                                |
| 26 | Woven Wire Fence 4' High  | IDOT 665 | 3,536    | Foot  | IDOT Standard 656001           |
| 27 | Woven Wire Double Gate 24' Wide                                     | IDOT 665 | 2        | Each  | IDOT Standard 656001           |
| 28 | Mobilization (Max. 6% of Bid)                                       | 671      | 1        | L.S.  |                                |



Location Map

Special Note:

Coal Combustion By-Products - In accordance with Article 259 of the Special Provisions, Approximately 109,518 tons of CCB's shall be placed as CCB fill to backfill Impoundments and 90,482 tons of CCB's shall be spread in lifts in Mine Refuse/CCB fill areas.

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.

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 2 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 21 inches of soil.

| Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing |                                |                               |                              |                |
|---|--------------------------------|-------------------------------|------------------------------|----------------|
| ITEM (unit)   | August 1, 2008 - Sept. 1, 2008 | April 1, 2009 - May 15, 2009  | June 1, 2009 - June 30, 2009 | TOTAL QUANTITY |
| SEEDING (acres)   | 160                            |                               |                              | 160            |
| AGRICULTURAL GROUND LIMESTONE (tons)                        | 320 Tns<br>2 Tons/Acre         |                               |                              | 320 Tons       |
| NITROGEN FERTILIZER NUTRIENT (pounds)                       | 19,200 Pounds<br>120 Lb./Acre  | 19,200 Pounds<br>120 Lb./Acre |                              | 38,400 Pounds  |
| PHOSPHOROUS FERTILIZER NUTRIENT (pounds)                    | 32,000 Pounds<br>200 Lb./Acre  | 32,000 Pounds<br>200 Lb./Acre |                              | 64,000 Pounds  |
| POTASSIUM FERTILIZER NUTRIENT (pounds)                      | 48,000 Pounds<br>300 Lb./Acre  | 48,000 Pounds<br>300 Lb./Acre |                              | 96,000 Pounds  |
| MULCH, METHOD 2 PROCEDURE 2 (tons)                          | 160 Acres<br>2 Tons/Acre       |                               |                              | 160 Acres      |
| MOWING (acres)  |                                |                               | 160 Acres                    | 160 Acres      |

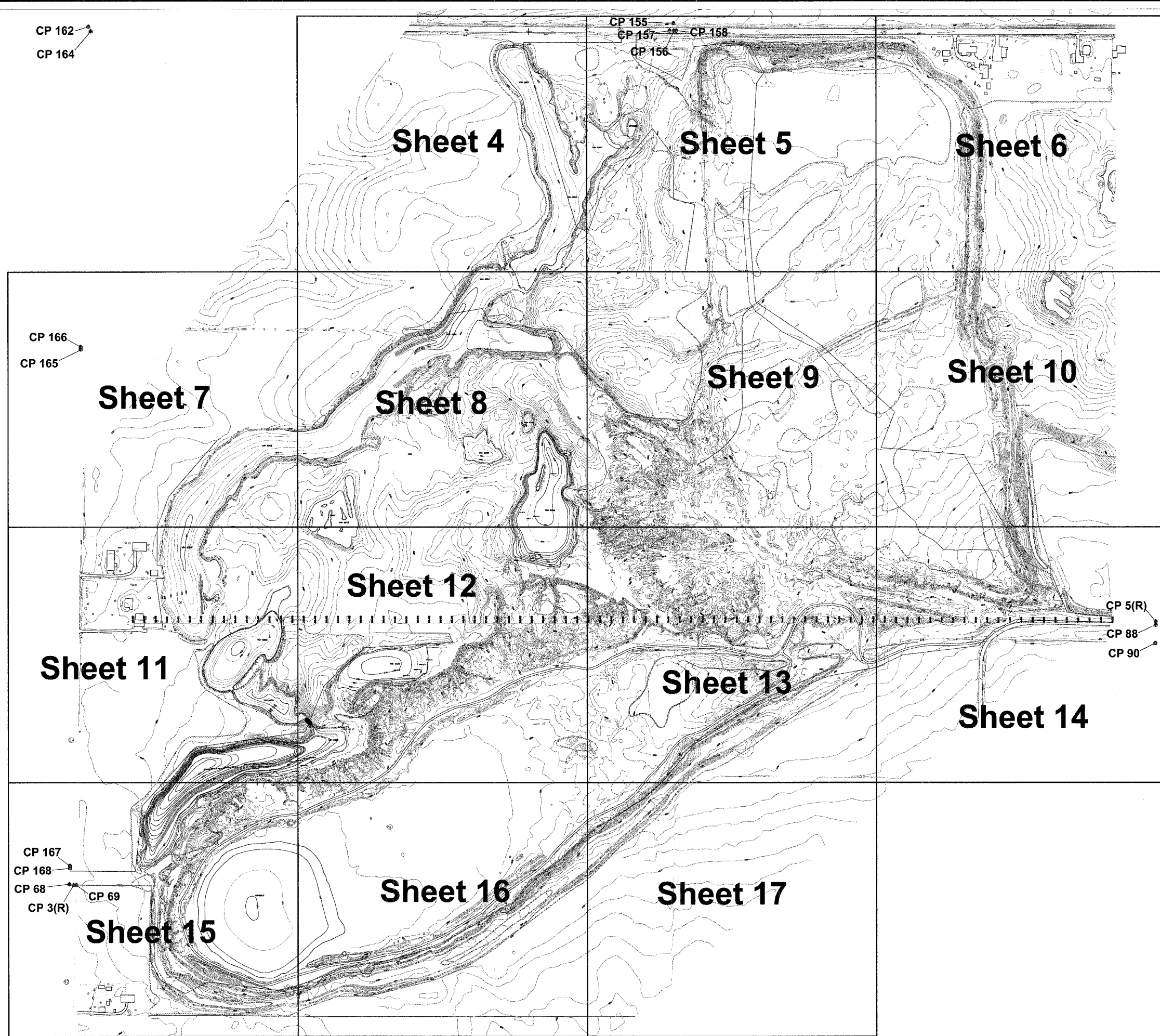
State of Illinois  
Department of Natural Resources

Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County

Date: Feb. 7, 2007

Drawn By: T.M.  
Checked By:

Summary of Quantities/  
General Notes/Location Map  
Sheet  
2 of 51



**Survey Data:**

| Pt. # | Northing   | Easting    | Elev.  |
|-------|------------|------------|--------|
| 5(R)  | 1415418.29 | 2292250.67 | 671.97 |
| 88    | 1415404.77 | 2292250.90 | 673.00 |
| 90    | 1415324.19 | 2292248.90 | 669.23 |
| 3(R)  | 1414263.94 | 2287500.04 | 622.42 |
| 69    | 1414263.86 | 2287512.50 | 662.42 |
| 68    | 1414267.69 | 2287481.47 | 663.20 |
| 167   | 1414352.07 | 2287483.42 | 663.54 |
| 168   | 1414341.86 | 2287483.28 | 663.51 |
| 165   | 1416610.27 | 2287533.25 | 658.40 |
| 166   | 1416620.50 | 2287533.39 | 658.29 |
| 162   | 1418020.05 | 2287569.02 | 664.78 |
| 164   | 1417999.60 | 2287579.12 | 664.31 |
| 155   | 1418034.05 | 2290135.98 | 675.25 |
| 156   | 1418001.68 | 2290137.50 | 675.63 |
| 157   | 1418001.50 | 2290118.67 | 675.50 |
| 158   | 1418001.38 | 2290147.79 | 675.91 |

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Department of Natural Resources

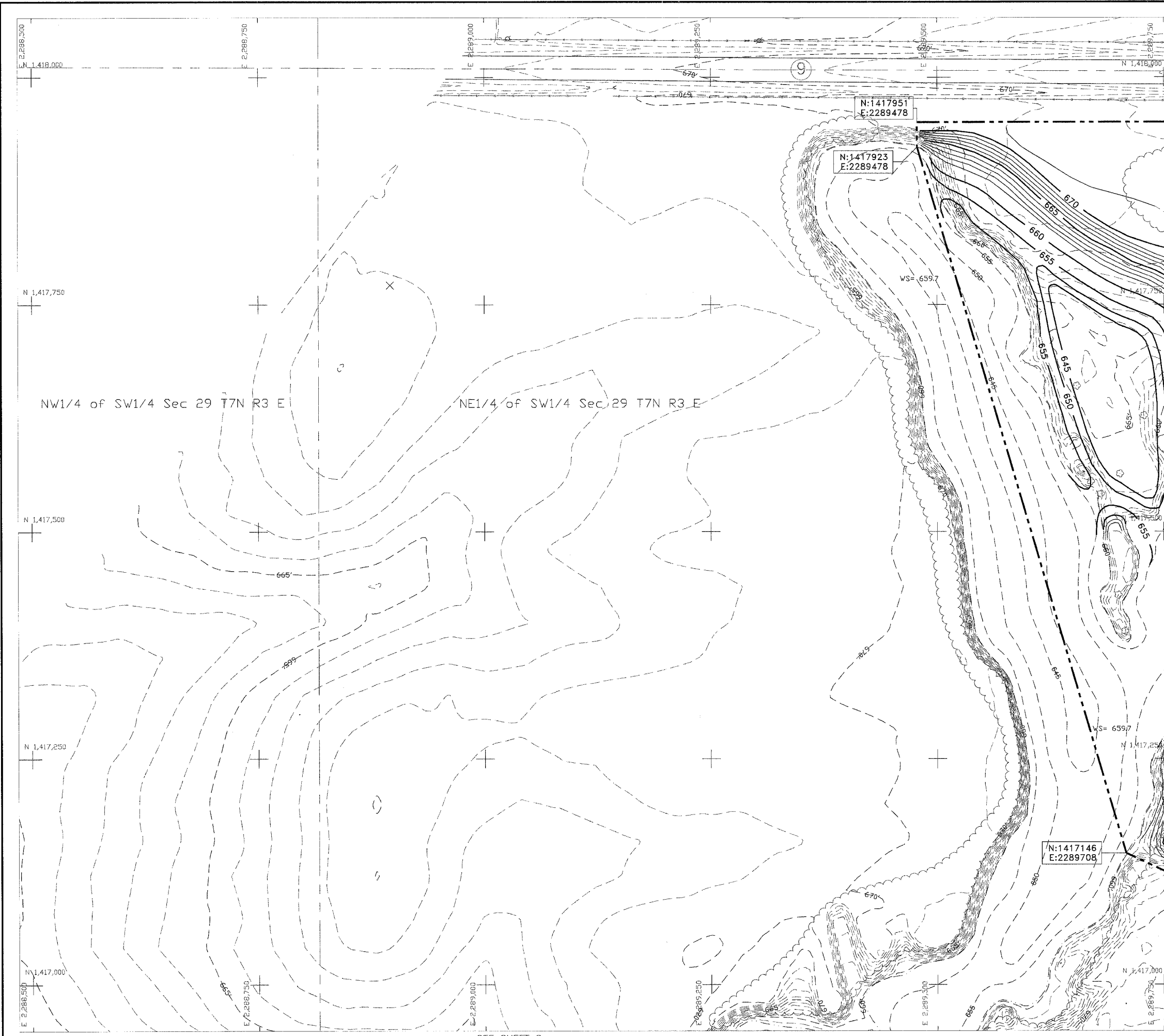
Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County

Drawn By: T.M. Date: Jan. 17, 2007  
Checked By: \_\_\_\_\_

Sheet Lay-out/Survey Information

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

Sheet  
3 of 51



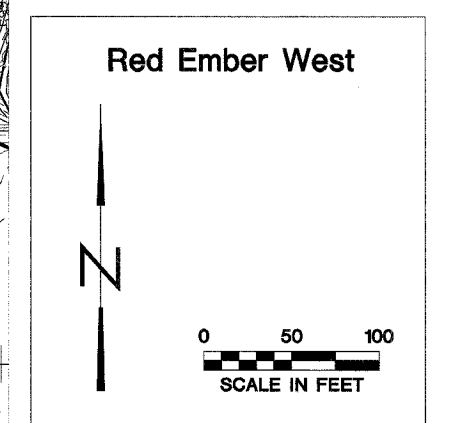
SEE SHEET 5

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Sheet Layout

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| ---     | 600' | EXISTING CONTOUR     |
| —       | 600  | PROPOSED CONTOUR     |
| - - - - |      | EDGE OF MINE REFUSE  |
| — — — — |      | CONSTRUCTION LIMITS  |
| — — — — |      | EDGE OF ROAD         |
| ~~~~~   |      | TREELINE             |
| - - - - |      | EDGE OF WATER        |
| ⊙       |      | SURVEY CONTROL POINT |
| B-# •   |      | BORING               |

Legend



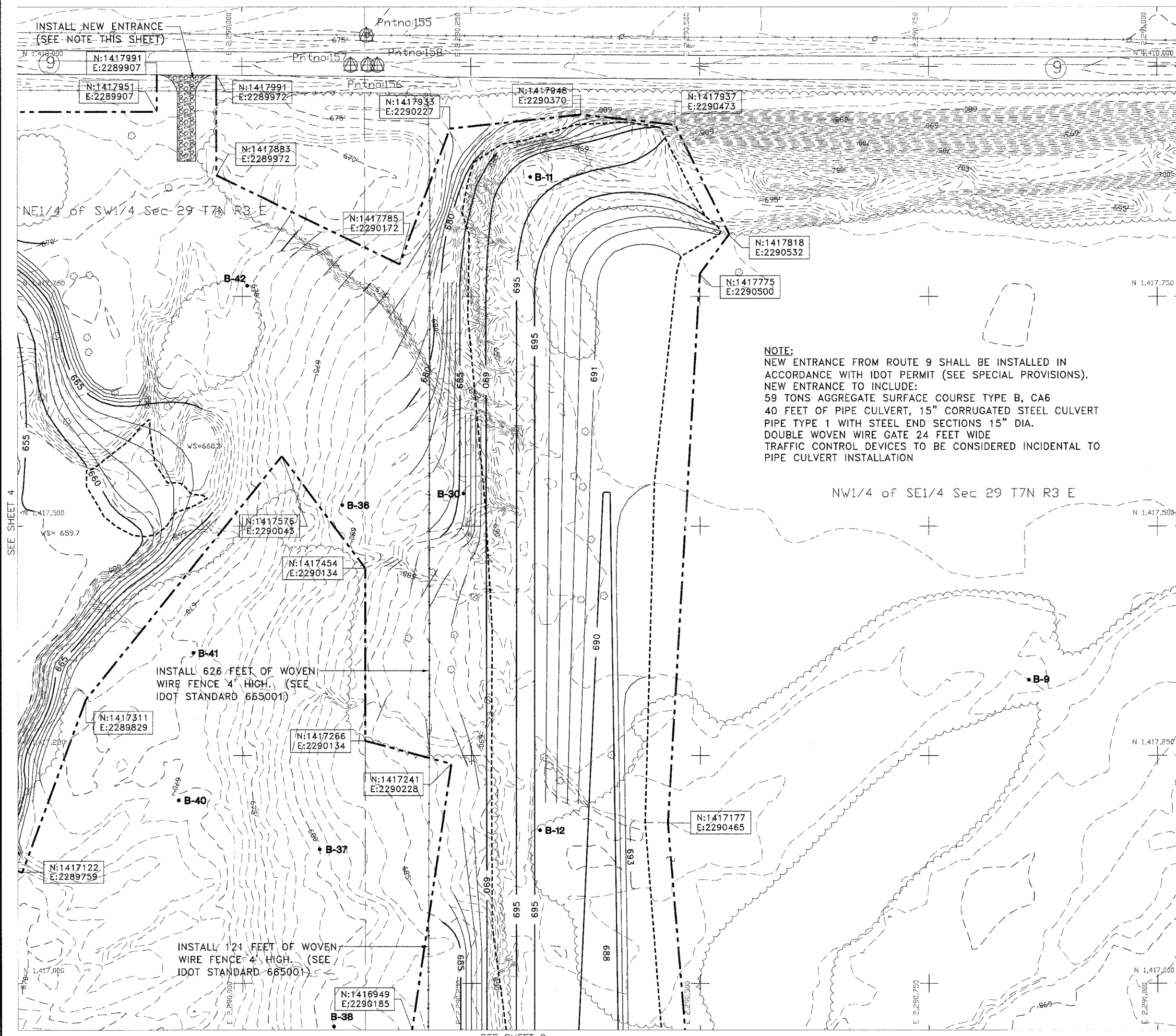
**State of Illinois**  
Department of Natural Resources

**Red Ember - West**  
Reclamation Project  
AML-GFuE-0504  
Fulton County

Drawn By: V.P., M-LF  
Checked By: \_\_\_\_\_  
Date: 1/23/2007

**Existing & Proposed**  
Conditions  
Sheet  
4 of 51

SEE SHEET 8

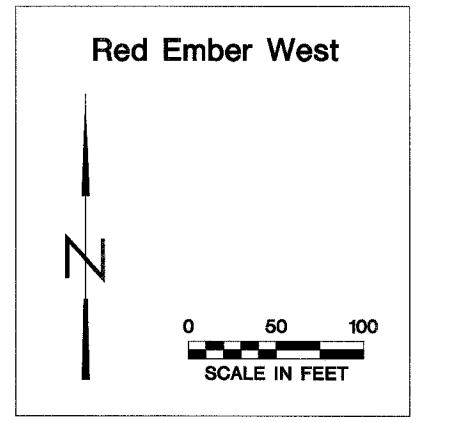


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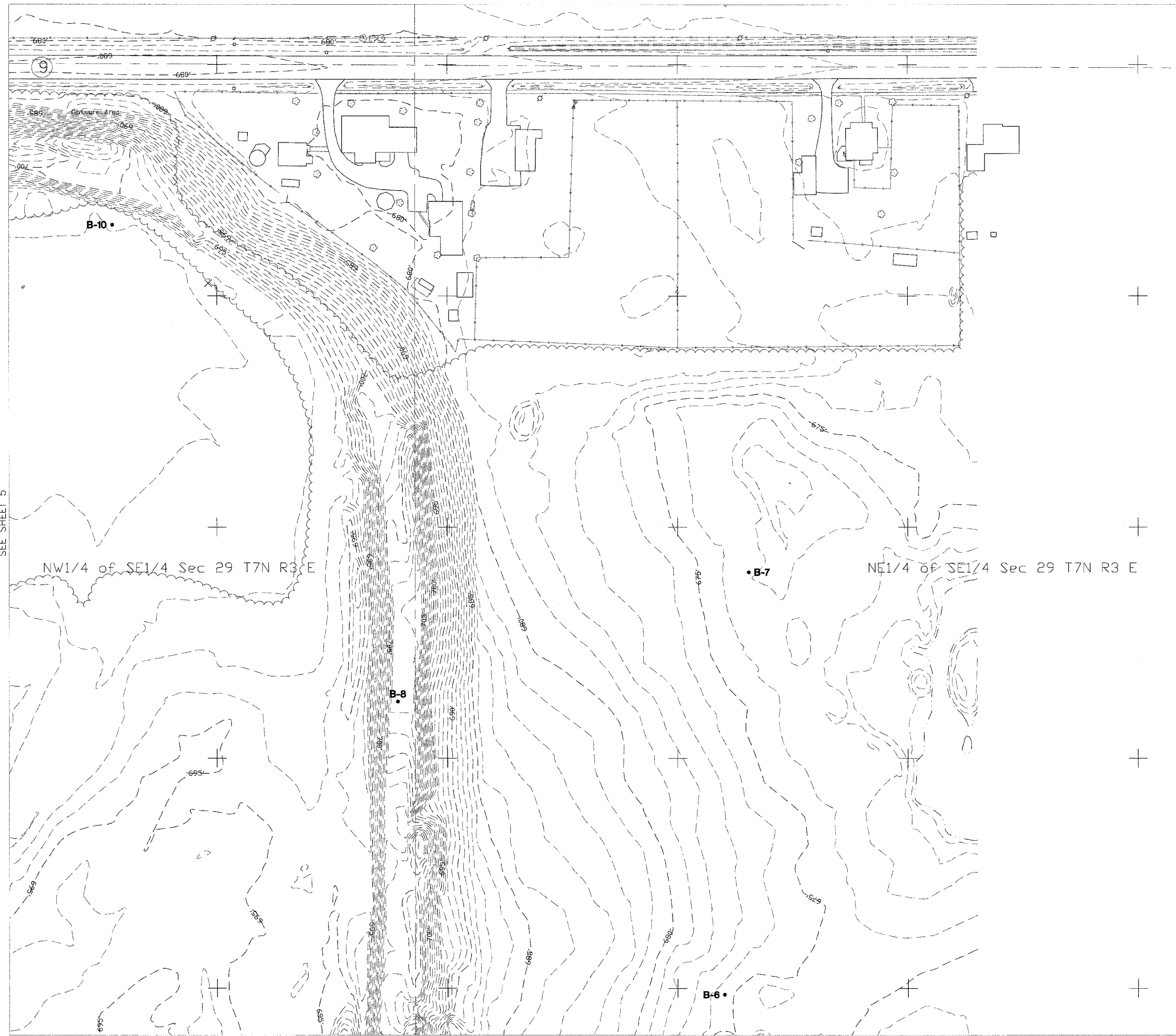


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 Fulton County

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 Date: 2/6/2007

Existing & Proposed  
 Conditions  
 Sheet  
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SEE SHEET 5

NW1/4 of SE1/4 Sec 29 T7N R3 E

NE1/4 of SE1/4 Sec 29 T7N R3 E

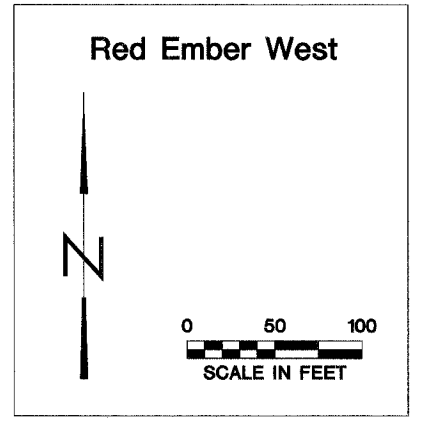
SEE SHEET 10

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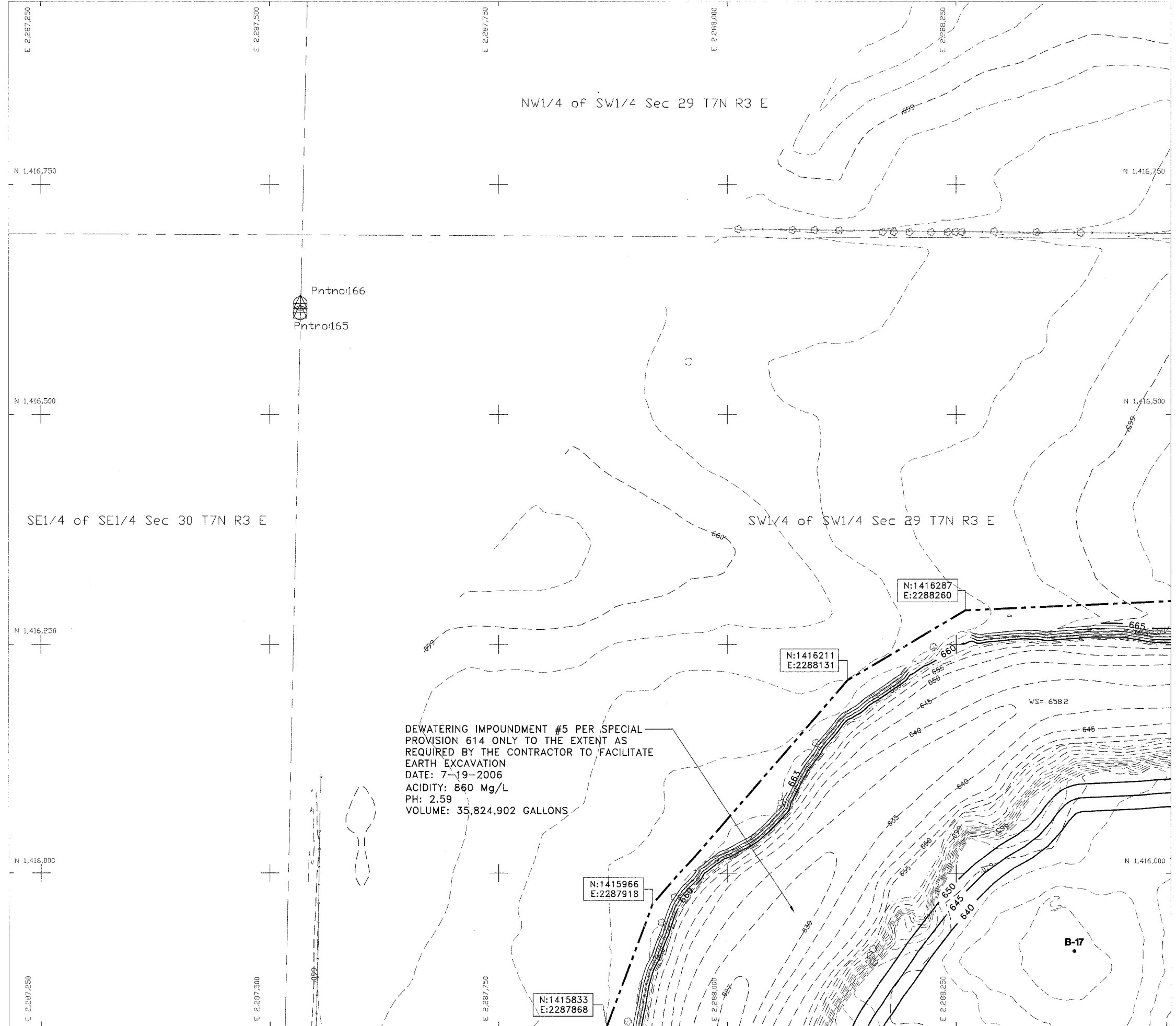


State of Illinois  
Department of Natural Resources

Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County

Drawn By: V.P., M.-L.F. Date: 1/12/2007  
Checked By:

Existing & Proposed  
Conditions  
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DEWATERING IMPOUNDMENT #5 PER SPECIAL PROVISION 614 ONLY TO THE EXTENT AS REQUIRED BY THE CONTRACTOR TO FACILITATE EARTH EXCAVATION  
 DATE: 7-19-2006  
 ACIDITY: 860 Mg/L  
 PH: 2.59  
 VOLUME: 35,824,902 GALLONS

SEE SHEET 8

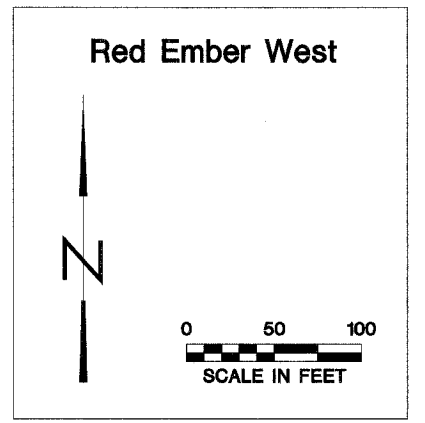
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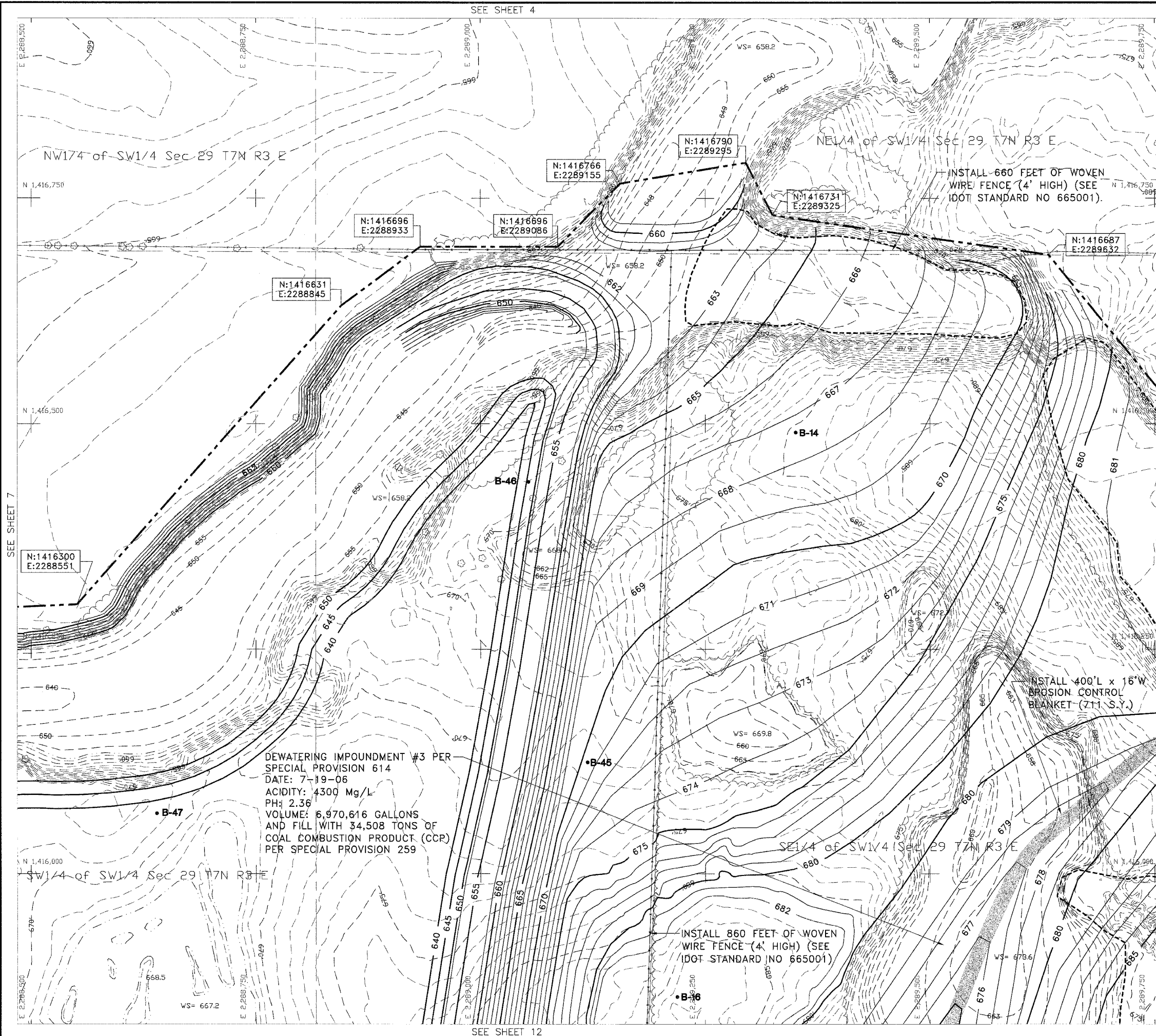


State of Illinois  
 Department of Natural Resources

Red Ember - West  
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 AML-GFuE-0504  
 Fulton County

Drawn By: V.P., M-LF  
 Checked By: \_\_\_\_\_  
 Date: 1/23/2007

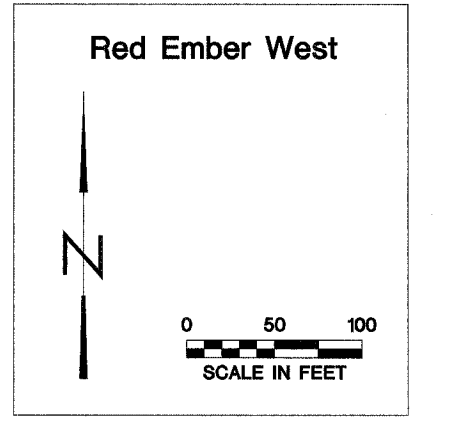
Existing & Proposed  
 Conditions  
 Sheet  
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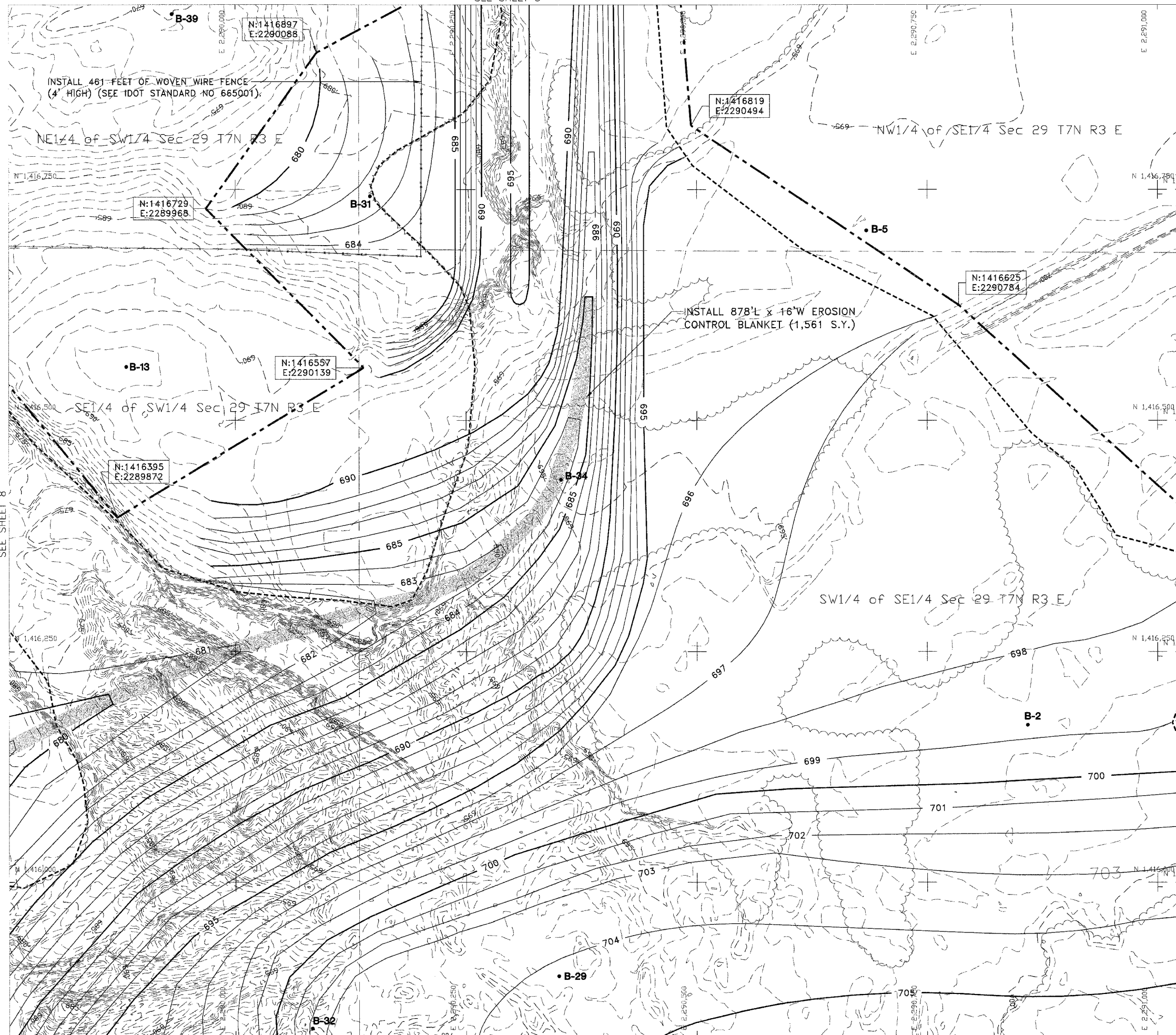
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- Legend
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  - — — — — EDGE OF ROAD
  - — — — — TREELINE
  - — — — — EDGE OF WATER
  - ⊙ SURVEY CONTROL POINT
  - B-# • BORING
  - ▨ EROSION CONTROL BLANKET







SEE SHEET 10

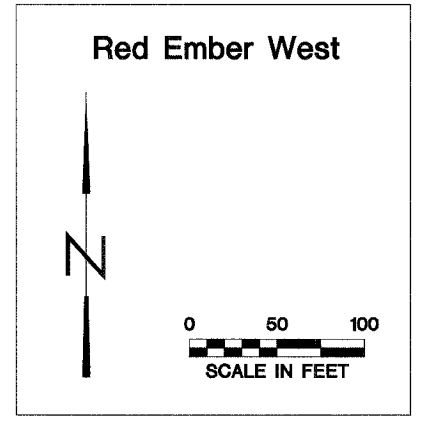
SEE SHEET 8

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Sheet Layout

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- 600 --- PROPOSED CONTOUR
- EDGE OF MINE REFUSE
- CONSTRUCTION LIMITS
- EDGE OF ROAD
- TREELINE
- EDGE OF WATER
- SURVEY CONTROL POINT
- B-# • BORING
- EROSION CONTROL BLANKET

Legend

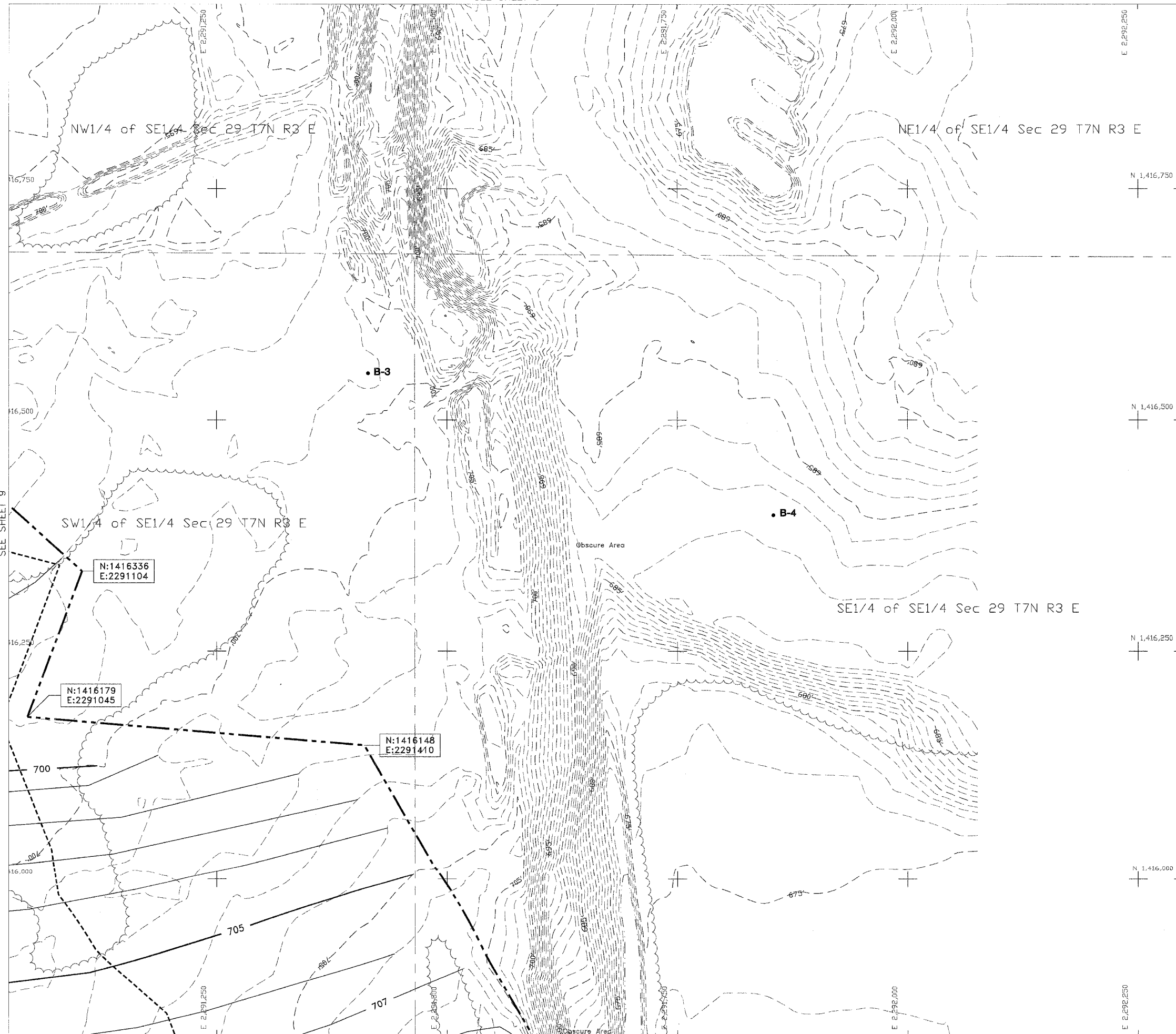


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Date: 1/23/2007

Existing & Proposed  
Conditions  
Sheet  
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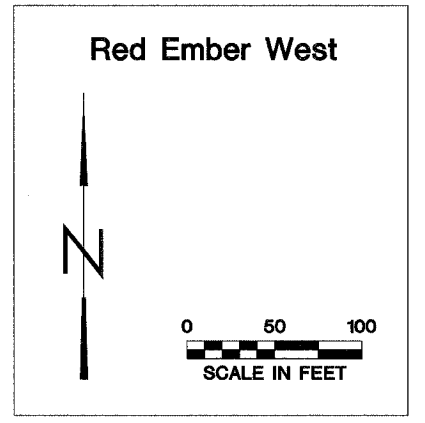


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Legend

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|  | 600' | EXISTING CONTOUR     |
|  | 600  | PROPOSED CONTOUR     |
|  |      | EDGE OF MINE REFUSE  |
|  |      | CONSTRUCTION LIMITS  |
|  |      | EDGE OF ROAD         |
|  |      | TREELINE             |
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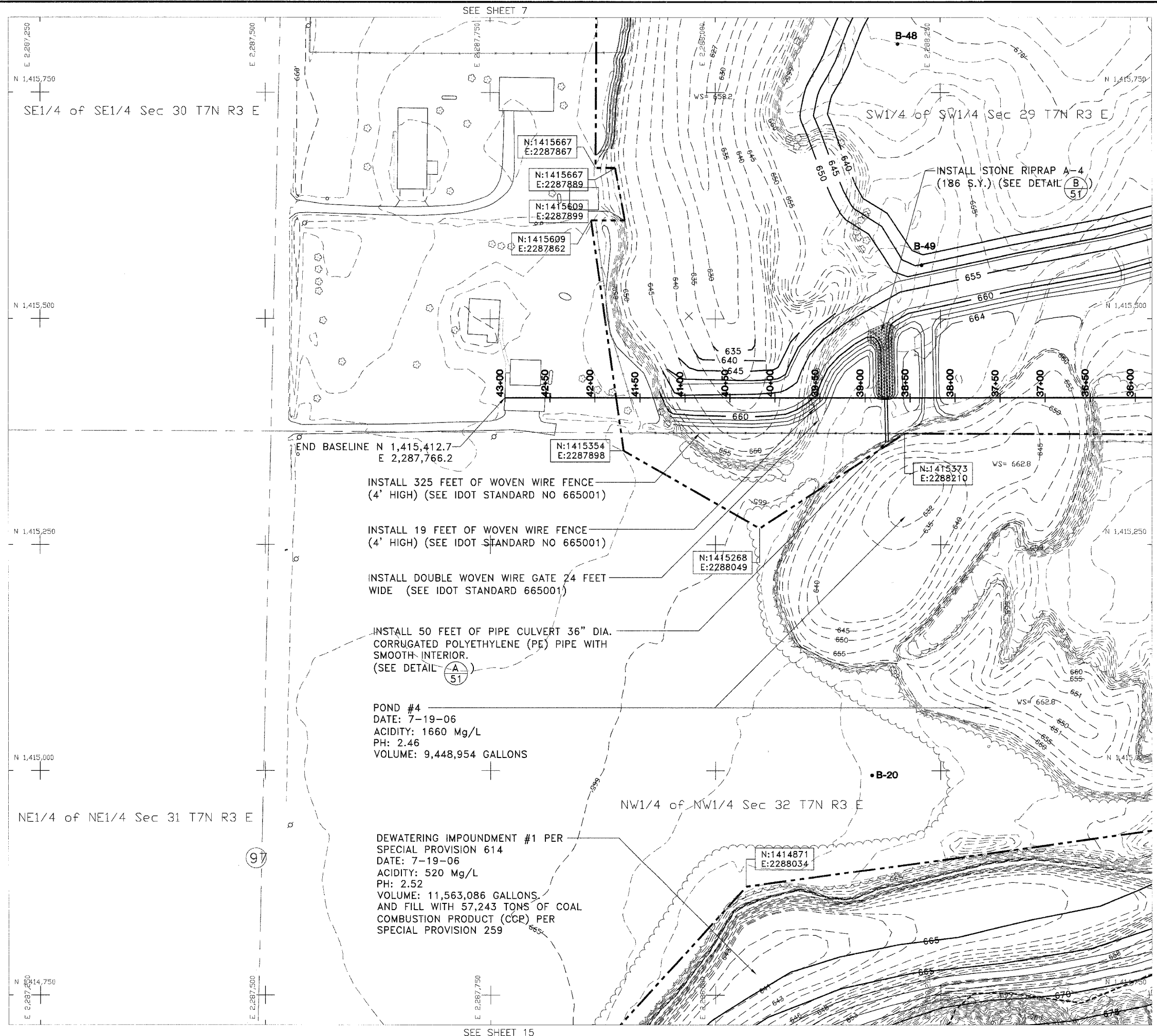


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Drawn By: V.P., M-LF  
Checked By: \_\_\_\_\_  
Date: 1/23/2007

Existing & Proposed  
Conditions  
Sheet  
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SEE SHEET 7

SEE SHEET 12

SEE SHEET 15

SE1/4 of SE1/4 Sec 30 T7N R3 E

SW1/4 of SW1/4 Sec 29 T7N R3 E

NW1/4 of NW1/4 Sec 32 T7N R3 E

N:1415667  
E:2287867

N:1415667  
E:2287889

N:1415609  
E:2287899

N:1415609  
E:2287862

N:1415354  
E:2287898

N:1415373  
E:2288210

N:1415268  
E:2288049

N:1414871  
E:2288034

INSTALL 325 FEET OF WOVEN WIRE FENCE  
(4' HIGH) (SEE IDOT STANDARD NO 665001)

INSTALL 19 FEET OF WOVEN WIRE FENCE  
(4' HIGH) (SEE IDOT STANDARD NO 665001)

INSTALL DOUBLE WOVEN WIRE GATE 24 FEET  
WIDE (SEE IDOT STANDARD 665001)

INSTALL 50 FEET OF PIPE CULVERT 36" DIA.  
CORRUGATED POLYETHYLENE (PE) PIPE WITH  
SMOOTH INTERIOR.  
(SEE DETAIL **(A)**)

POND #4  
DATE: 7-19-06  
ACIDITY: 1660 Mg/L  
PH: 2.46  
VOLUME: 9,448,954 GALLONS

DEWATERING IMPOUNDMENT #1 PER  
SPECIAL PROVISION 614  
DATE: 7-19-06  
ACIDITY: 520 Mg/L  
PH: 2.52  
VOLUME: 11,563,086 GALLONS  
AND FILL WITH 57,243 TONS OF COAL  
COMBUSTION PRODUCT (CCP) PER  
SPECIAL PROVISION 259

INSTALL STONE RIPRAP A-4  
(186 S.Y.) (SEE DETAIL **(B)**)

|    |    |    |    |
|----|----|----|----|
|    | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 |
| 15 | 16 | 17 |    |

Sheet Layout

- 600' --- EXISTING CONTOUR
- 600 — PROPOSED CONTOUR
- - - - - EDGE OF MINE REFUSE
- - - - - CONSTRUCTION LIMITS
- — — — — EDGE OF ROAD
- ~~~~~ TREELINE
- - - - - EDGE OF WATER
- ⊕ SURVEY CONTROL POINT
- B-# • BORING

Legend

Red Ember West

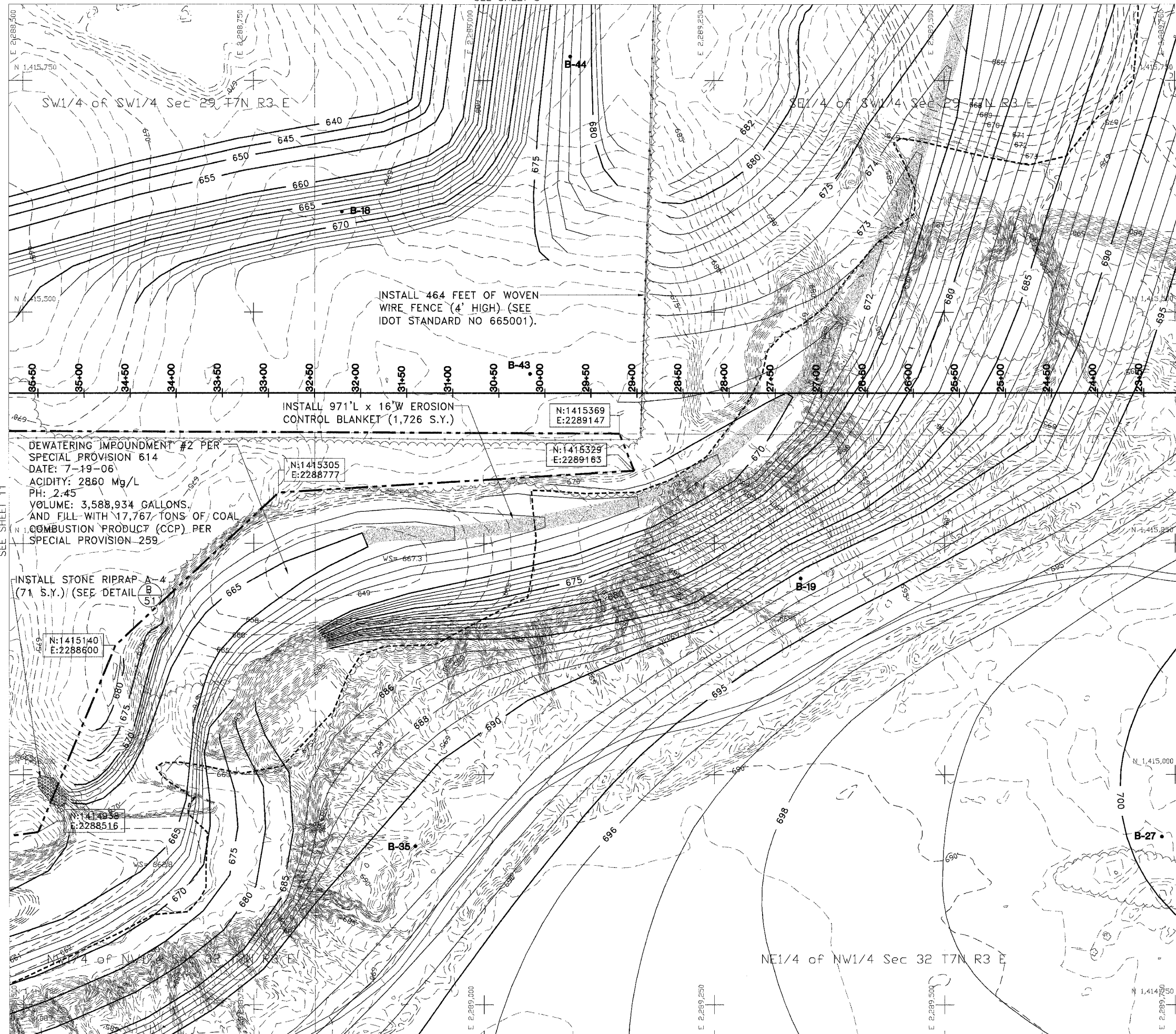


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Fulton County

Drawn By: V.P., M-LF  
Checked By: \_\_\_\_\_  
Date: 1/23/2007

Existing & Proposed  
Conditions  
Sheet  
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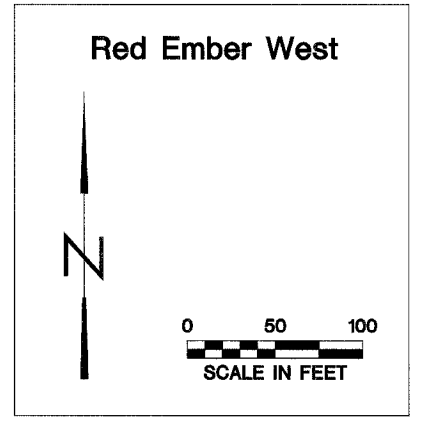
SEE SHEET 11

SEE SHEET 13

|    |    |    |    |
|----|----|----|----|
|    | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 |
| 15 | 16 | 17 |    |

Sheet Layout

- Legend
- - - 600' - - - EXISTING CONTOUR
  - 600 — PROPOSED CONTOUR
  - - - - - EDGE OF MINE REFUSE
  - — — — — CONSTRUCTION LIMITS
  - — — — — EDGE OF ROAD
  - ~~~~~ TREELINE
  - - - - - EDGE OF WATER
  - ⊙ SURVEY CONTROL POINT
  - B-# • BORING
  - ▨ EROSION CONTROL BLANKET

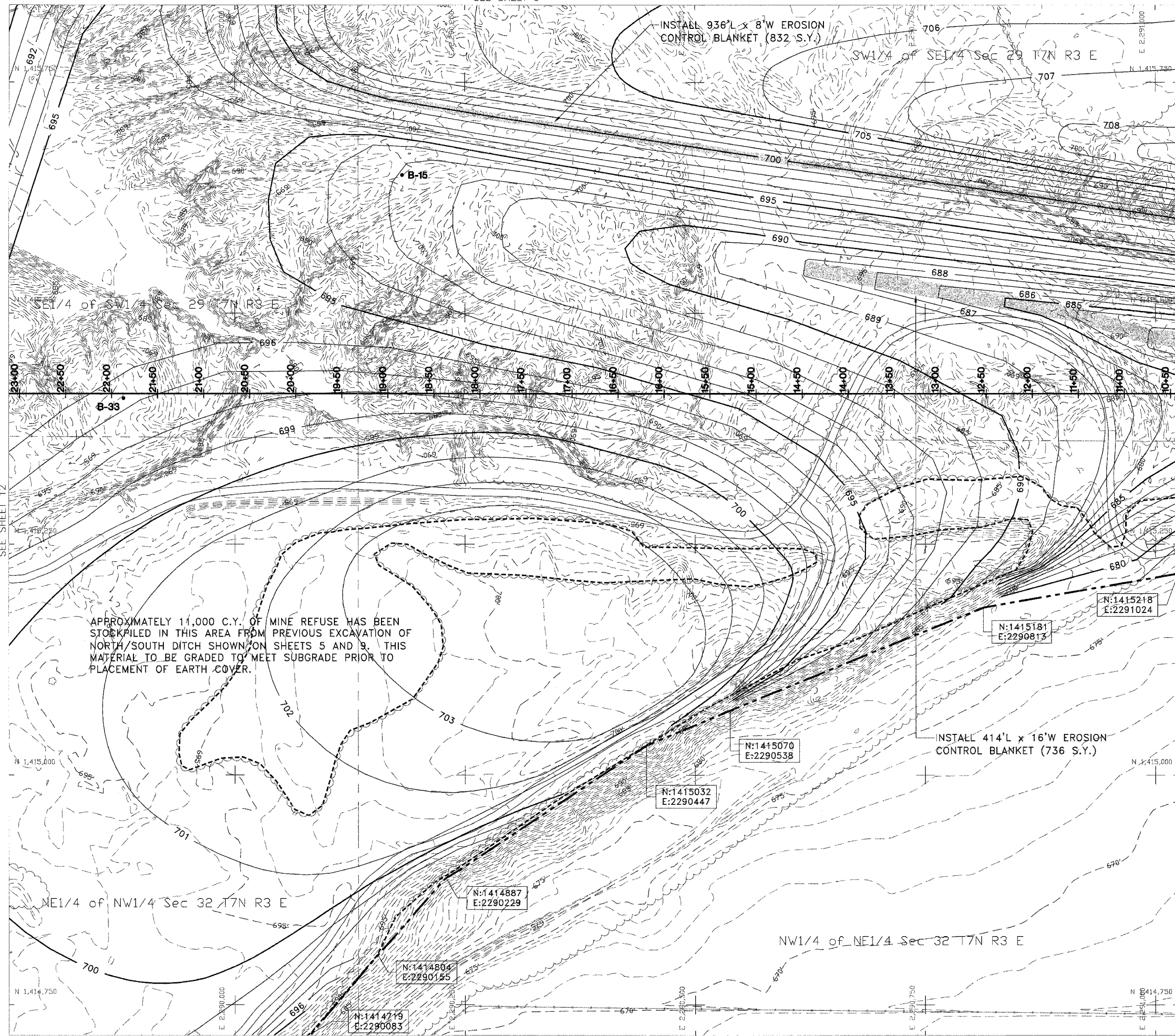


State of Illinois  
 Department of Natural Resources

Red Ember - West  
 Reclamation Project  
 AML-GFuE-0504  
 Fulton County

Drawn By: V.P., M-LF  
 Checked By: \_\_\_\_\_  
 Date: 1/23/2007

Existing & Proposed  
 Conditions  
 Sheet  
 12 of 51



SEE SHEET 12

SEE SHEET 14

|    |    |    |    |
|----|----|----|----|
|    | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 |
| 15 | 16 | 17 |    |

Sheet Layout

- 600' --- EXISTING CONTOUR
- 600 — PROPOSED CONTOUR
- - - - - EDGE OF MINE REFUSE
- — — — — CONSTRUCTION LIMITS
- — — — — EDGE OF ROAD
- ~~~~~ TREELINE
- - - - - EDGE OF WATER
- ⊕ SURVEY CONTROL POINT
- B-# • BORING
- ▨ EROSION CONTROL BLANKET

Legend

**Red Ember West**

SCALE IN FEET

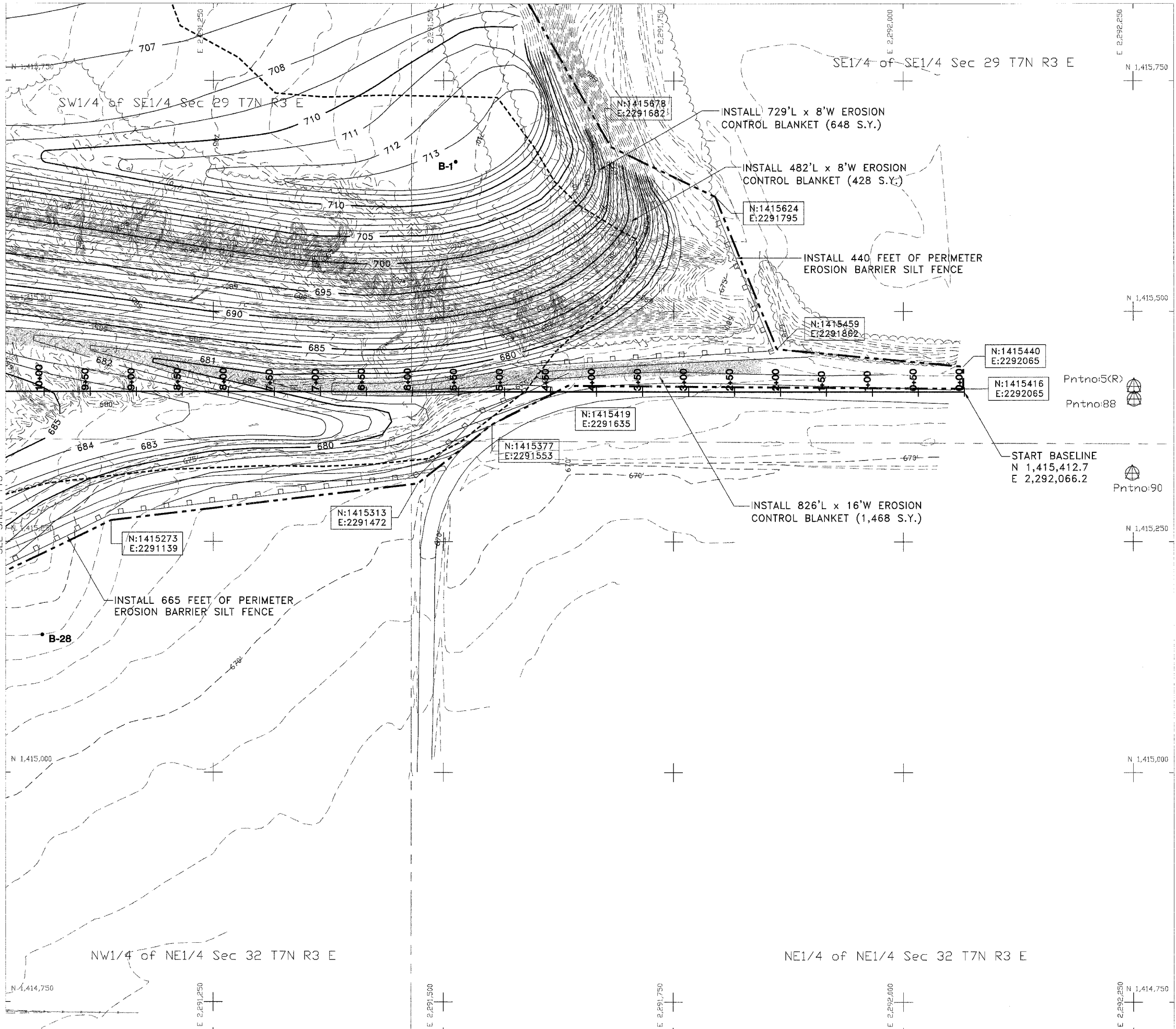
State of Illinois  
Department of Natural Resources

Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County

Drawn By: V.P., M-LF  
Checked By: \_\_\_\_\_  
Date: 1/23/2007

Existing & Proposed  
Conditions  
Sheet  
13 of 51

SEE SHEET 10

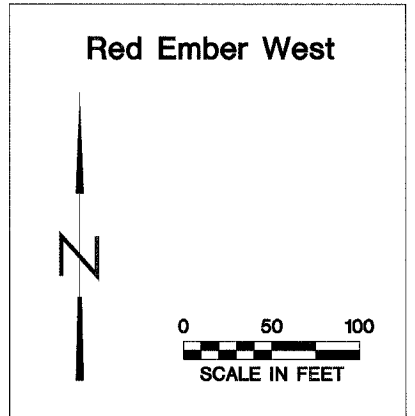


|    |    |    |    |
|----|----|----|----|
|    | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 |
| 15 | 16 | 17 |    |

Sheet Layout

|  |                         |
|--|-------------------------|
|  | EXISTING CONTOUR        |
|  | PROPOSED CONTOUR        |
|  | EDGE OF MINE REFUSE     |
|  | CONSTRUCTION LIMITS     |
|  | EDGE OF ROAD            |
|  | TREELINE                |
|  | EDGE OF WATER           |
|  | SURVEY CONTROL POINT    |
|  | BORING                  |
|  | EROSION CONTROL BLANKET |

Legend

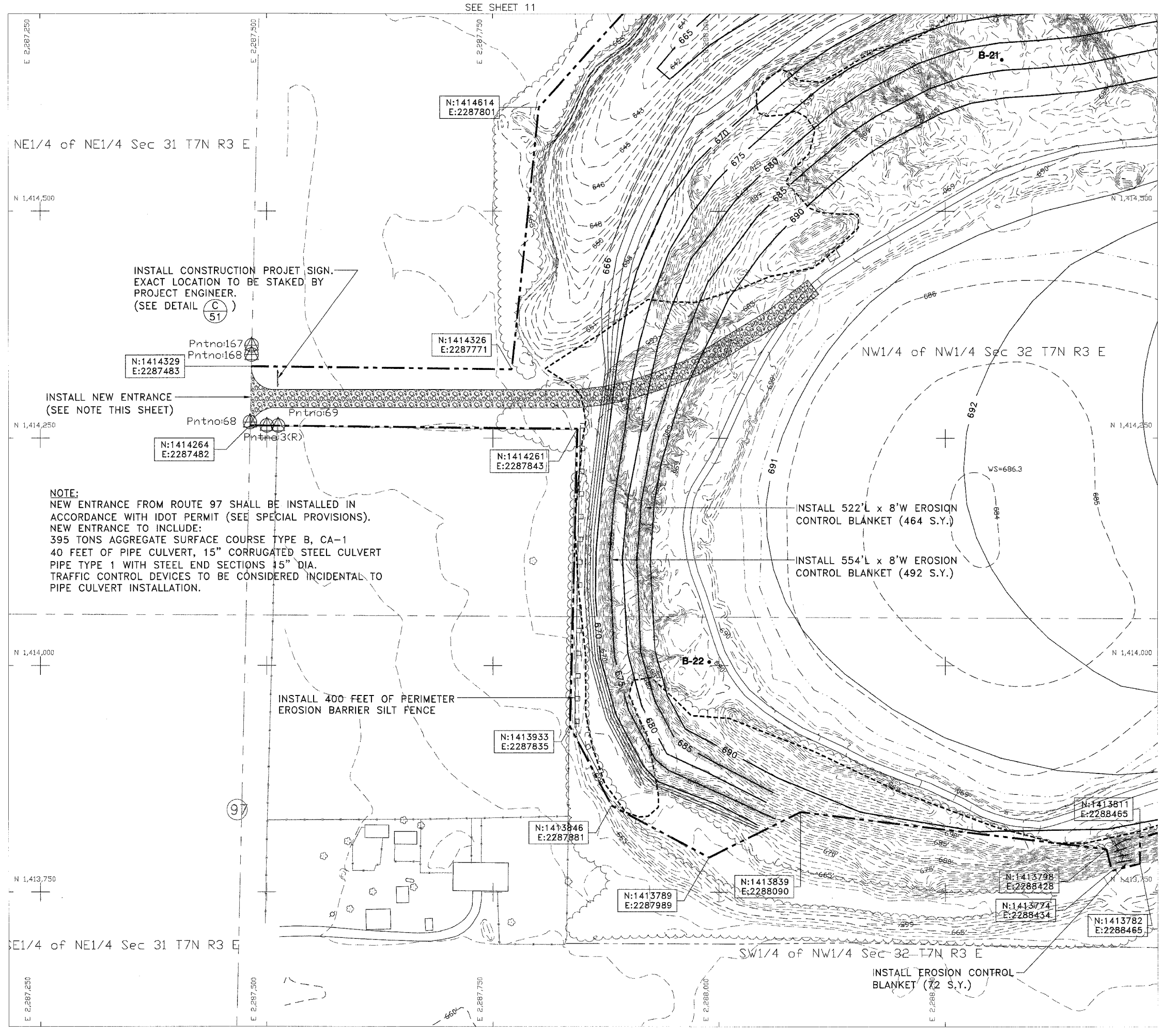


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Red Ember - West  
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Date: 1/23/2007

Existing & Proposed  
Conditions  
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INSTALL CONSTRUCTION PROJCT SIGN.  
EXACT LOCATION TO BE STAKED BY  
PROJECT ENGINEER.  
(SEE DETAIL (C) 51)

INSTALL NEW ENTRANCE  
(SEE NOTE THIS SHEET)

**NOTE:**  
NEW ENTRANCE FROM ROUTE 97 SHALL BE INSTALLED IN  
ACCORDANCE WITH IDOT PERMIT (SEE SPECIAL PROVISIONS).  
NEW ENTRANCE TO INCLUDE:  
395 TONS AGGREGATE SURFACE COURSE TYPE B, CA-1  
40 FEET OF PIPE CULVERT, 15" CORRUGATED STEEL CULVERT  
PIPE TYPE 1 WITH STEEL END SECTIONS 15" DIA.  
TRAFFIC CONTROL DEVICES TO BE CONSIDERED INCIDENTAL TO  
PIPE CULVERT INSTALLATION.

INSTALL 522'L x 8'W EROSION  
CONTROL BLANKET (464 S.Y.)

INSTALL 554'L x 8'W EROSION  
CONTROL BLANKET (492 S.Y.)

INSTALL 400 FEET OF PERIMETER  
EROSION BARRIER SILT FENCE

INSTALL EROSION CONTROL  
BLANKET (72 S.Y.)

SEE SHEET 16

SEE SHEET 11

|      |    |    |    |
|------|----|----|----|
|      | 4  | 5  | 6  |
| 7    | 8  | 9  | 10 |
| 11   | 12 | 13 | 14 |
| (15) | 16 | 17 |    |

Sheet Layout

- 600' --- EXISTING CONTOUR
- 600 — PROPOSED CONTOUR
- - - - - EDGE OF MINE REFUSE
- - - - - CONSTRUCTION LIMITS
- — — — — EDGE OF ROAD
- ~~~~~ TREELINE
- - - - - EDGE OF WATER
- ⊙ SURVEY CONTROL POINT
- B-# • BORING
- ▨ EROSION CONTROL BLANKET

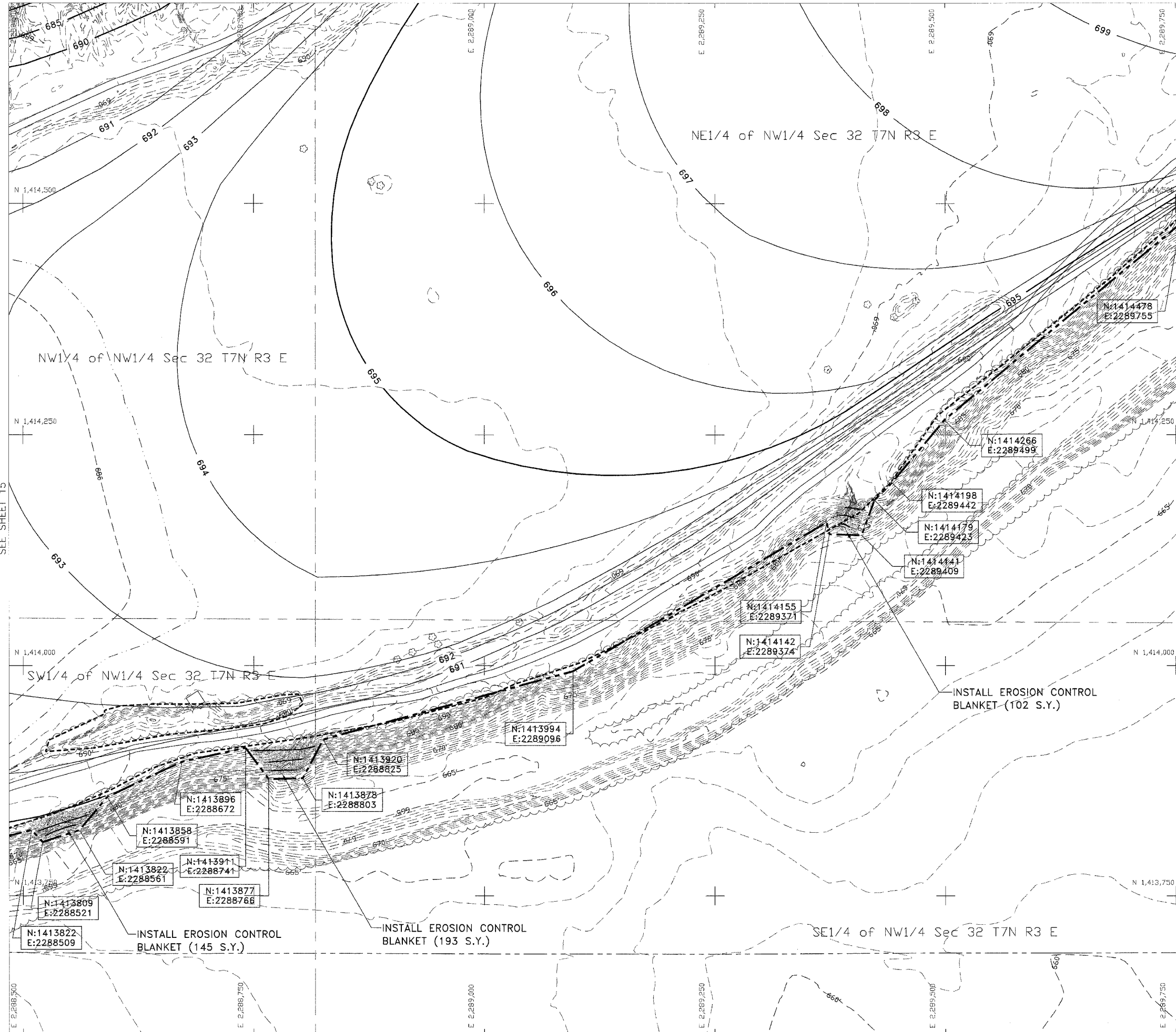
Legend

**Red Ember West**

SCALE IN FEET

Drawn By: V.P., M-LF  
Checked By:  
Date: 1/24/2007

SEE SHEET 12



SEE SHEET 17

SEE SHEET 15

|    |    |    |    |
|----|----|----|----|
|    | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 |
| 15 | 16 | 17 |    |

Sheet Layout

- 600' --- EXISTING CONTOUR
- 600 — PROPOSED CONTOUR
- - - - - EDGE OF MINE REFUSE
- — — — — CONSTRUCTION LIMITS
- — — — — EDGE OF ROAD
- ~~~~~ TREELINE
- - - - - EDGE OF WATER
- ⊙ SURVEY CONTROL POINT
- B-# • BORING
- ▨ EROSION CONTROL BLANKET

Legend

**Red Ember West**

SCALE IN FEET

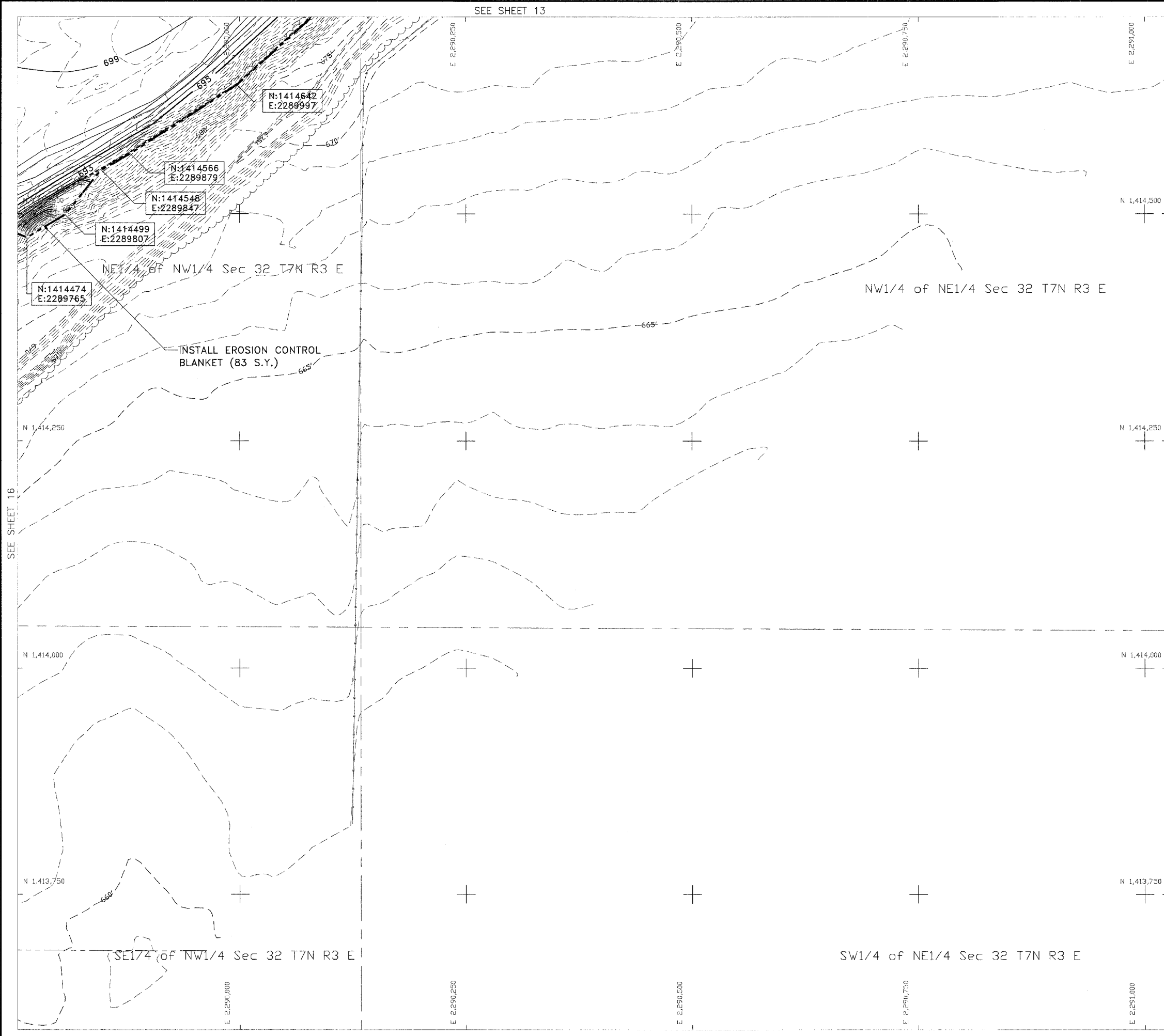
State of Illinois  
Department of Natural Resources

Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County

Drawn By: \_\_\_\_\_ Date: 1/24/2007  
V.P.: M-LF  
Checked By: \_\_\_\_\_

Existing & Proposed  
Conditions  
Sheet  
16 of 51





SEE SHEET 13

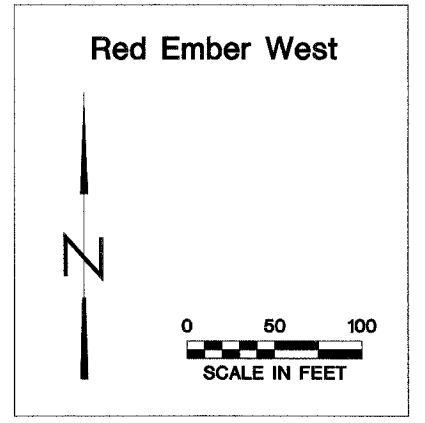
SEE SHEET 16

Sheet Layout

|    |    |    |    |
|----|----|----|----|
|    | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 |
| 15 | 16 | 17 |    |

Legend

|  |      |                      |
|--|------|----------------------|
|  | 600' | EXISTING CONTOUR     |
|  | 600  | PROPOSED CONTOUR     |
|  |      | EDGE OF MINE REFUSE  |
|  |      | CONSTRUCTION LIMITS  |
|  |      | EDGE OF ROAD         |
|  |      | TREELINE             |
|  |      | EDGE OF WATER        |
|  |      | SURVEY CONTROL POINT |
|  | B-#  | BORING               |



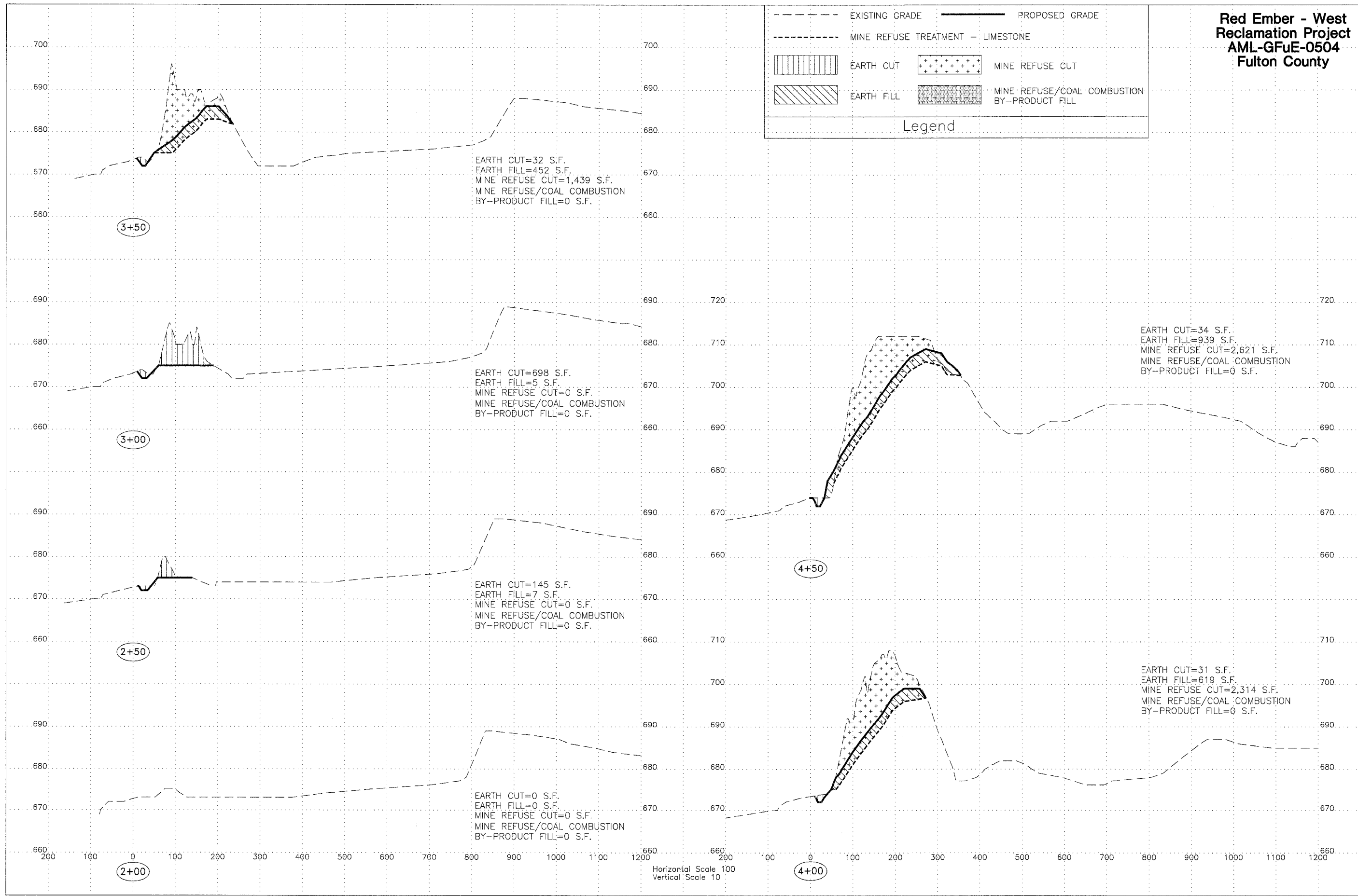
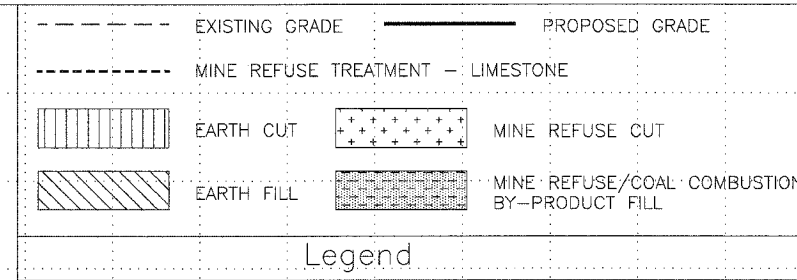
State of Illinois  
Department of Natural Resources

Red Ember - West  
Reclamation Project  
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Fulton County

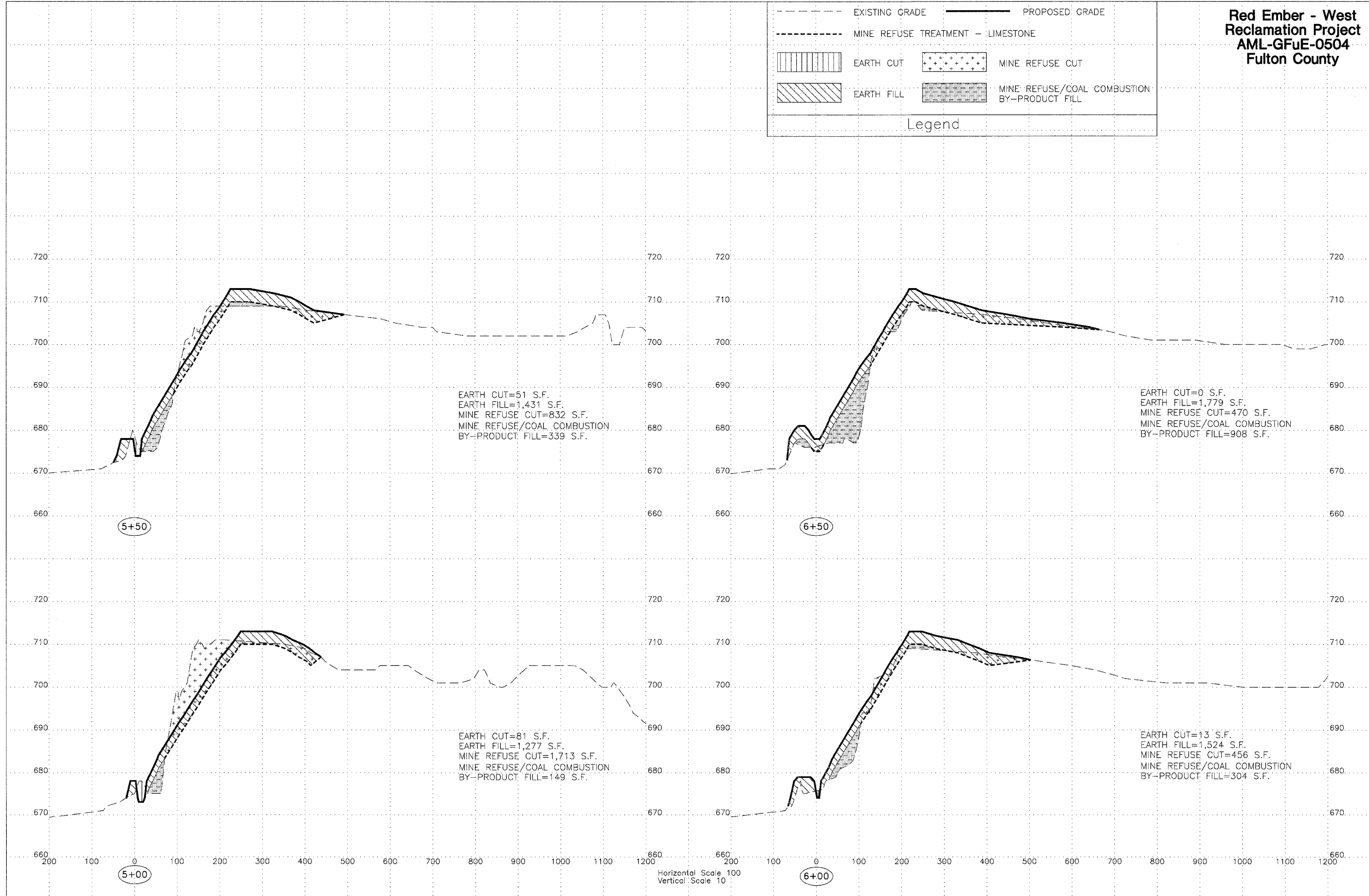
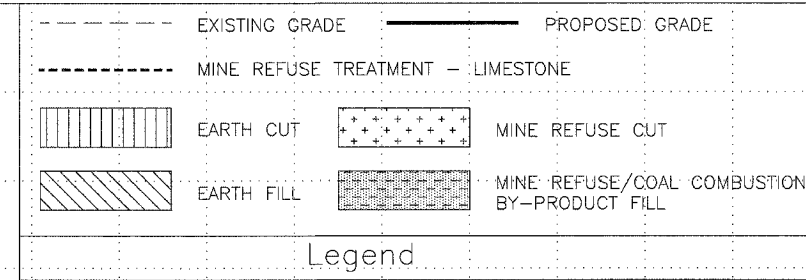
Drawn By: V.P., M-LF  
Checked By: \_\_\_\_\_  
Date: 1/23/2007

Existing & Proposed  
Conditions  
Sheet  
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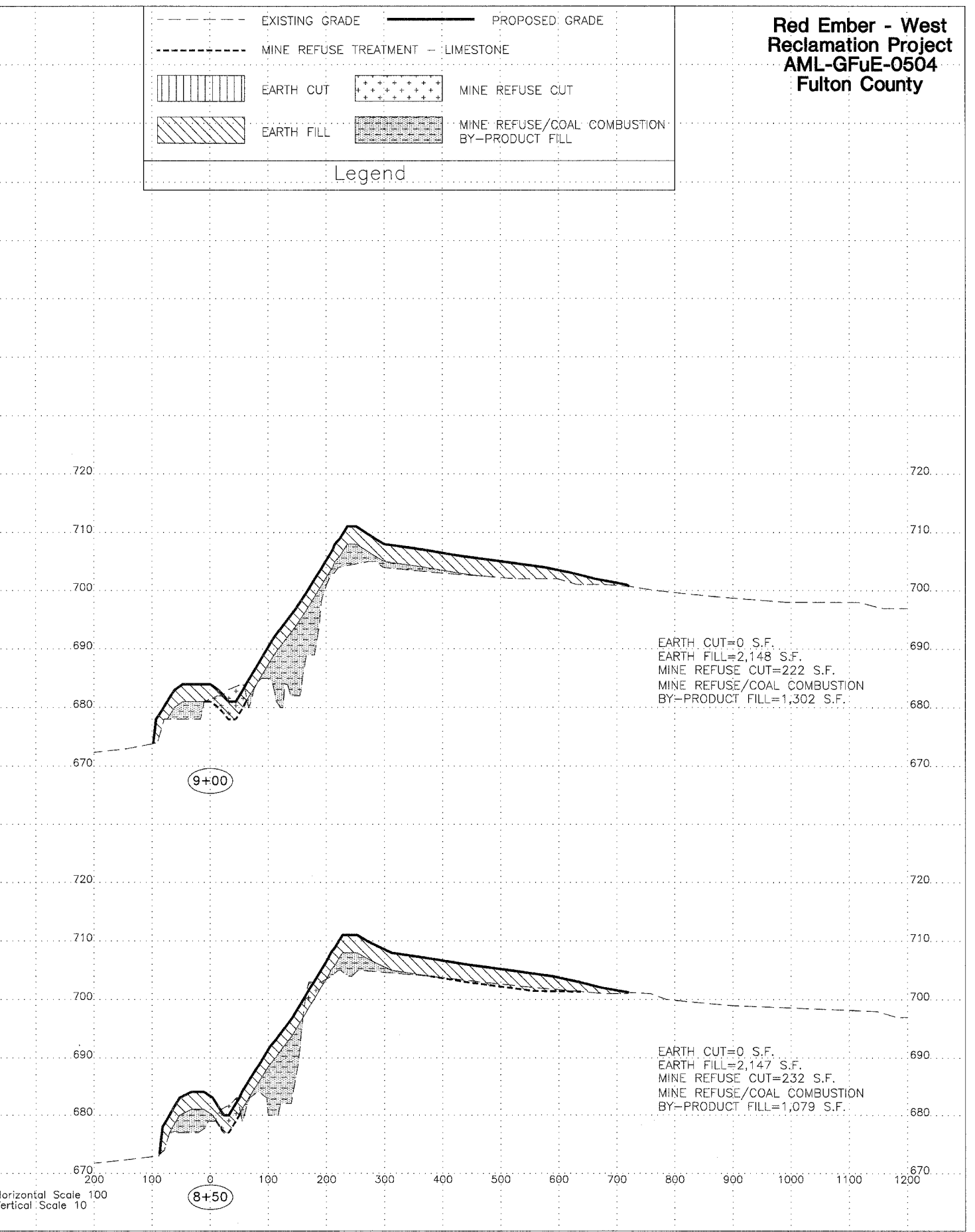
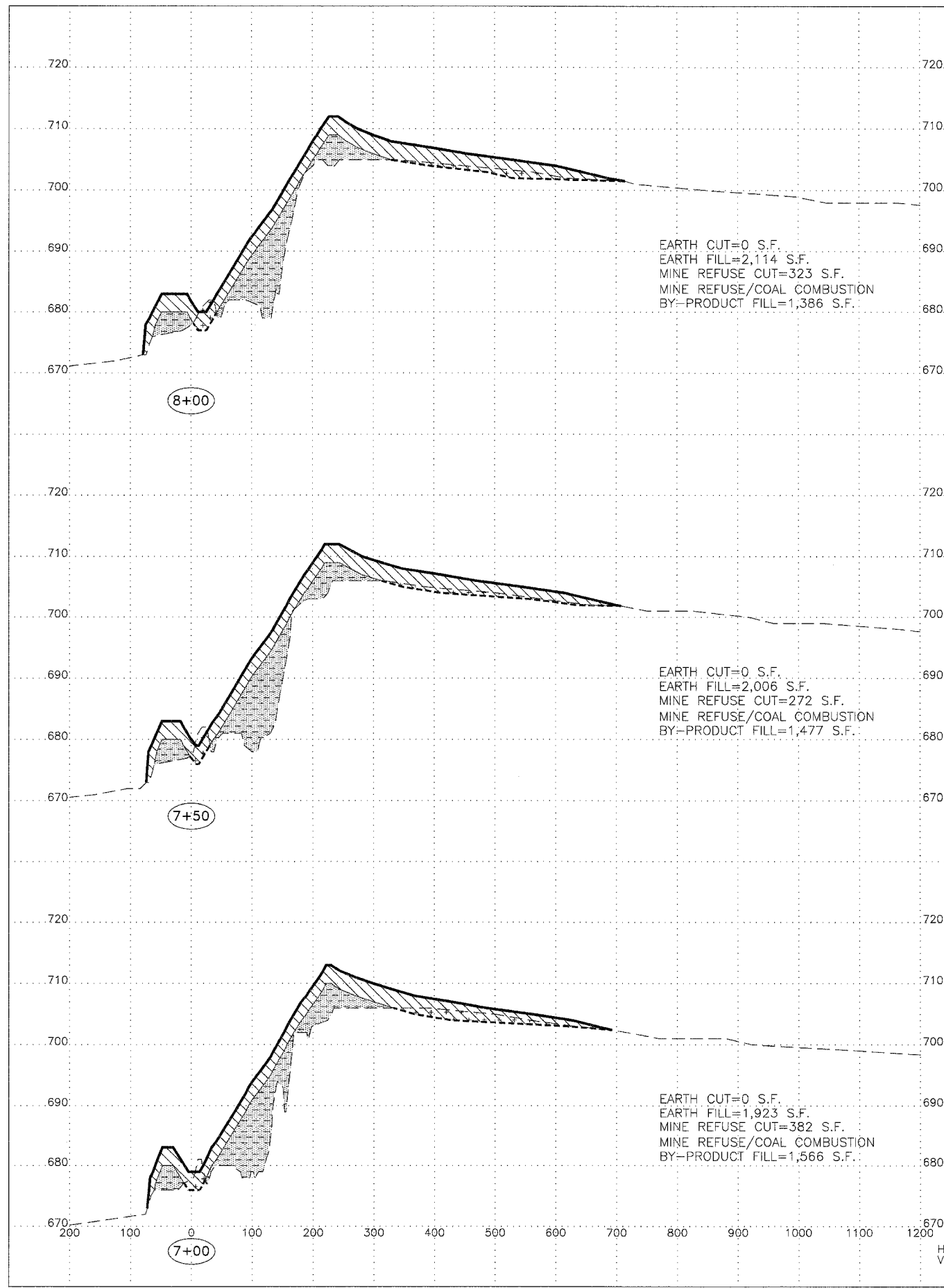
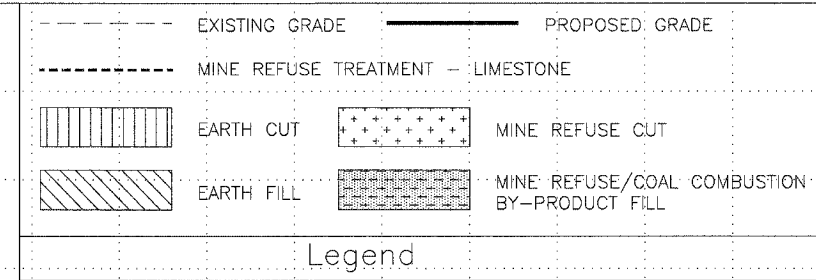
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



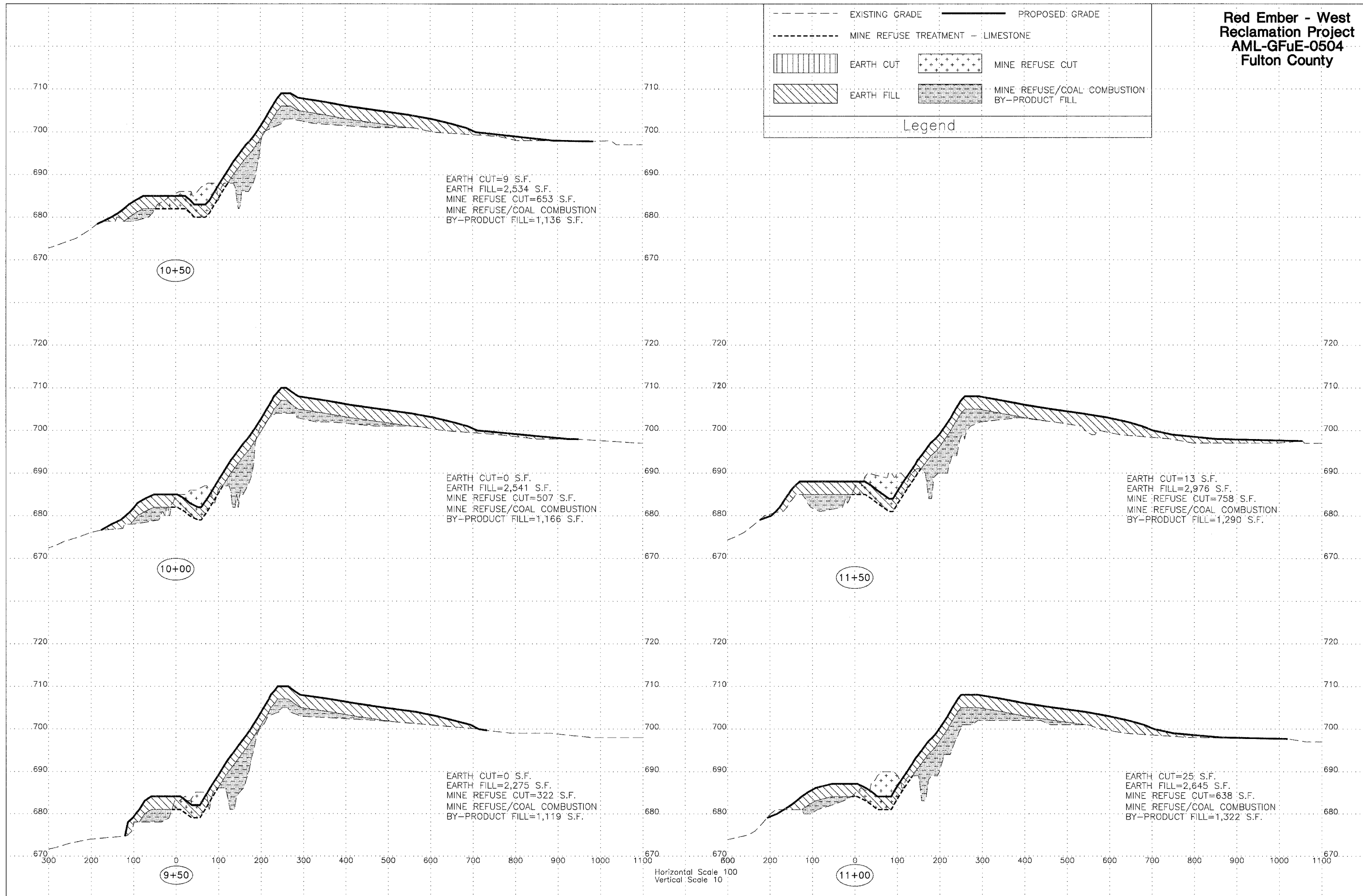
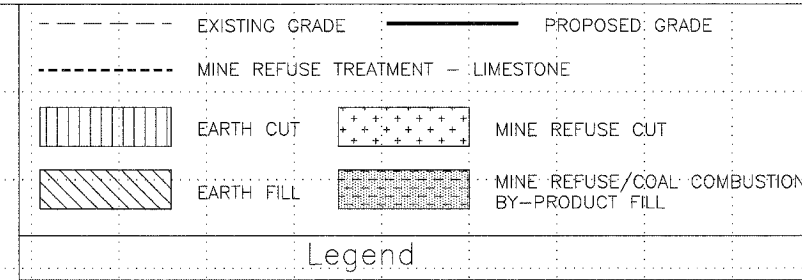
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**

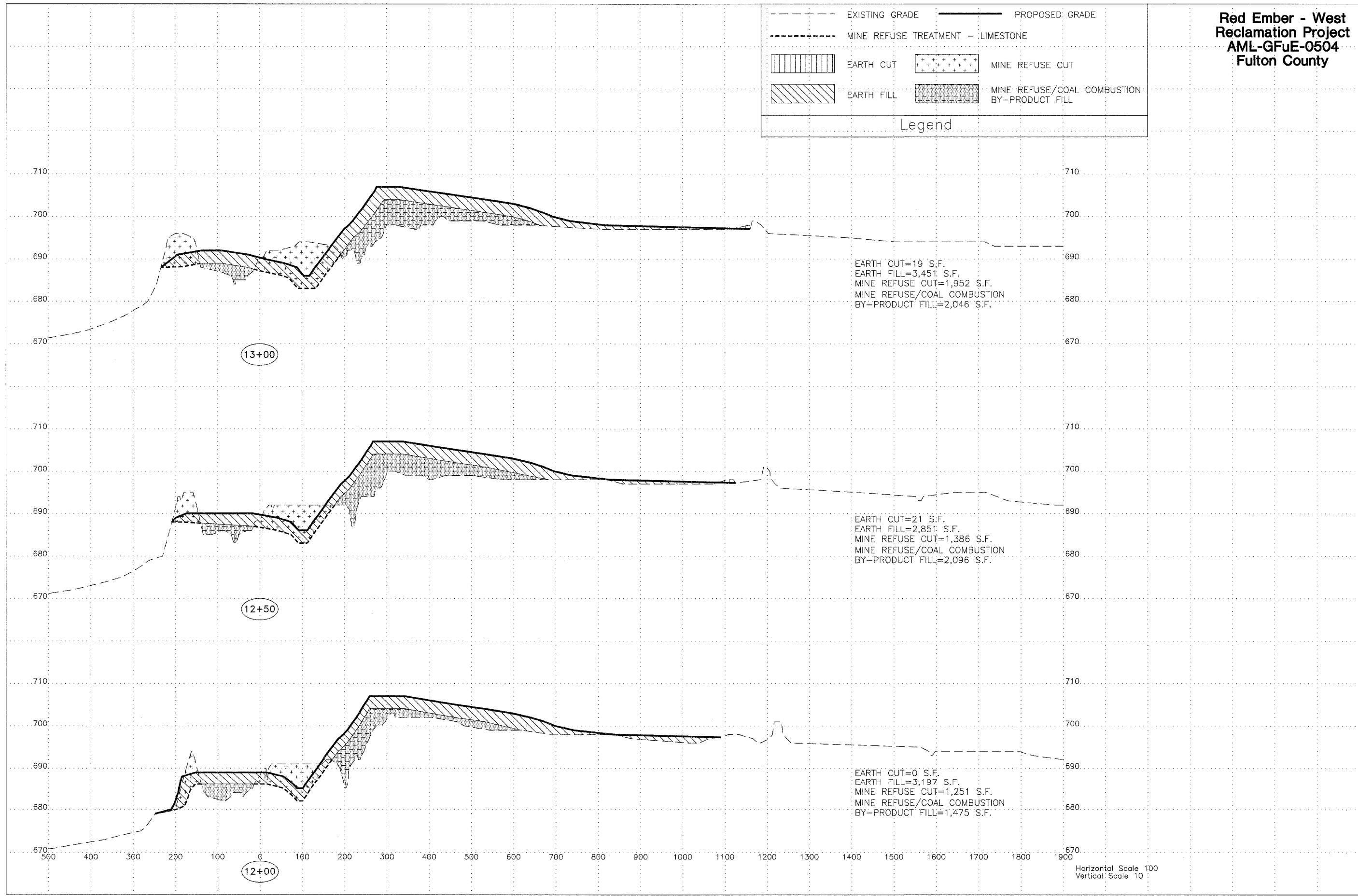
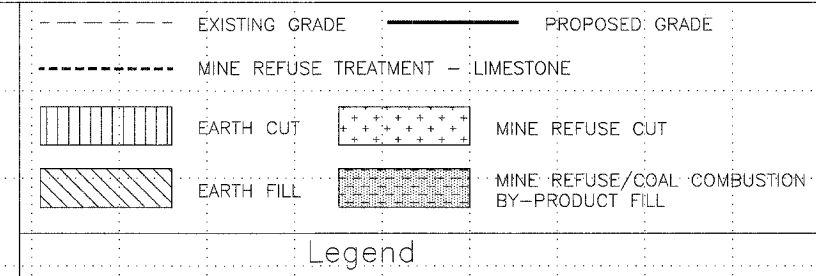


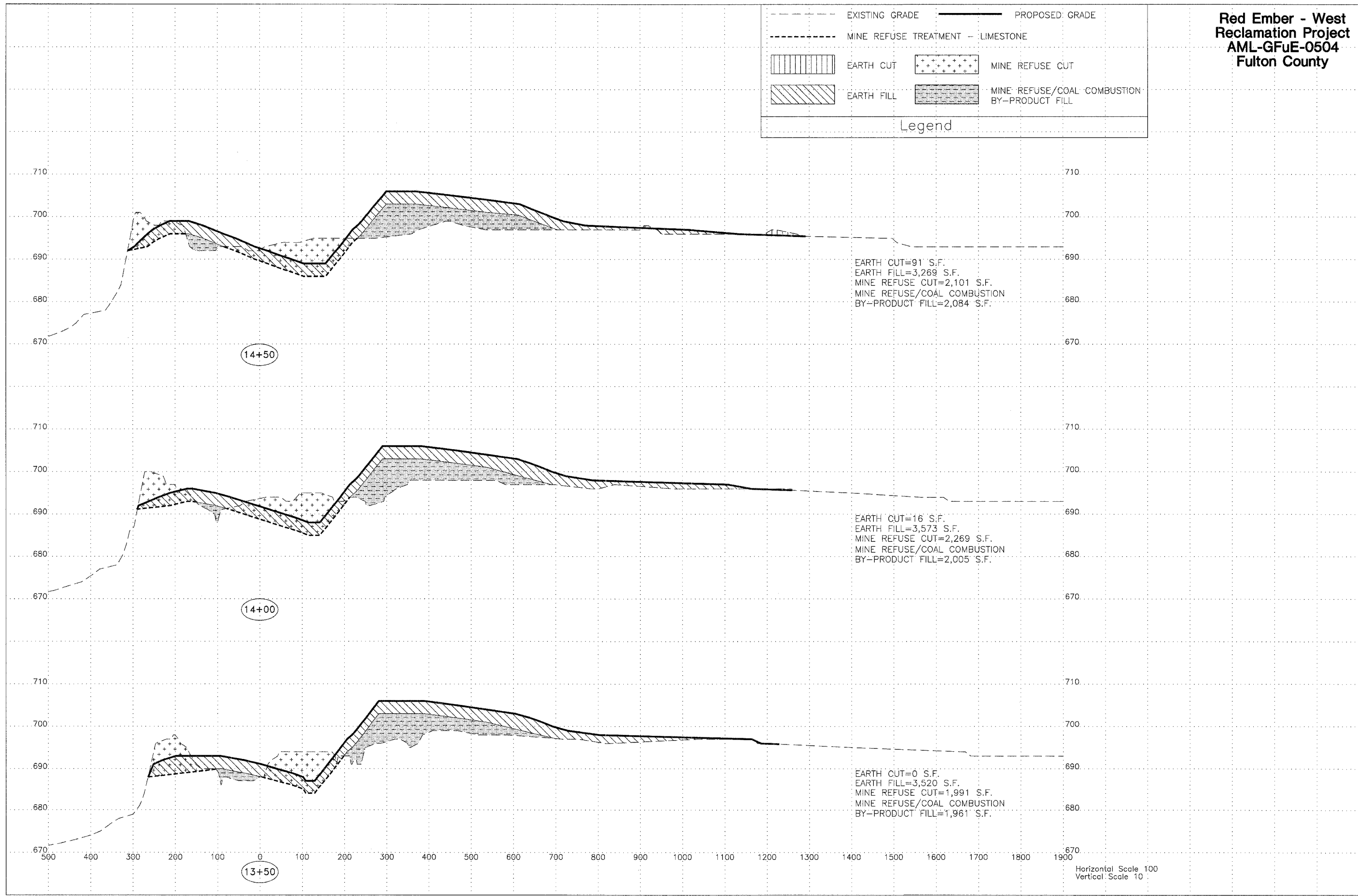
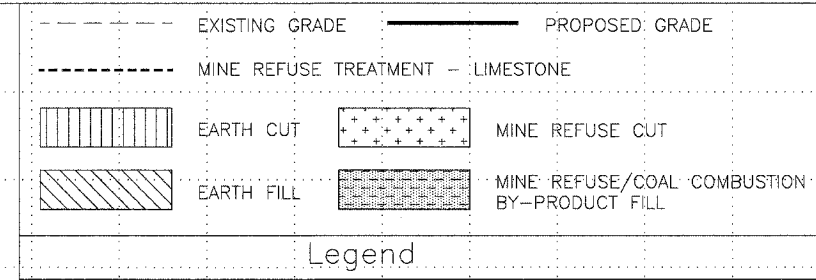
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**

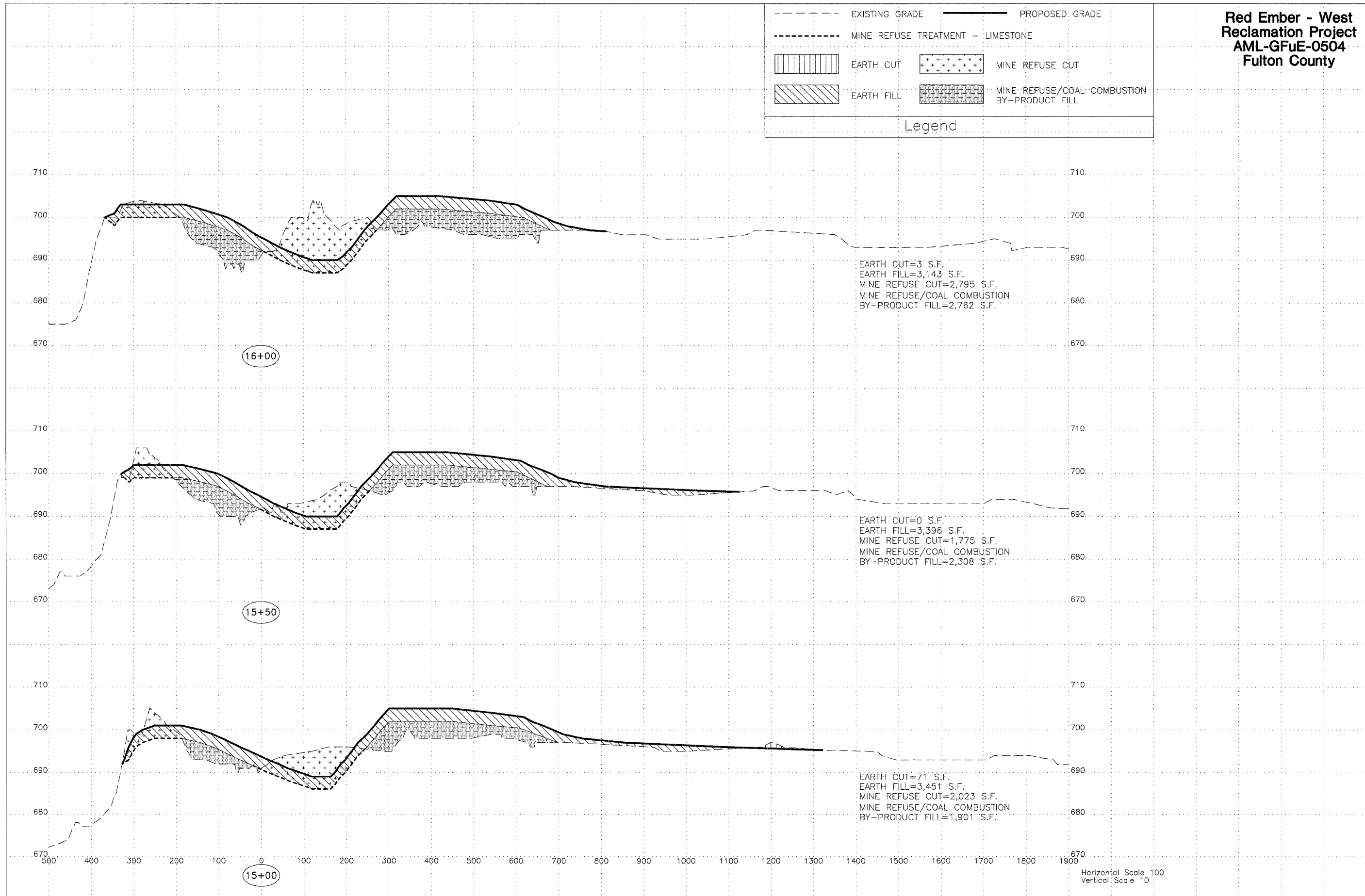
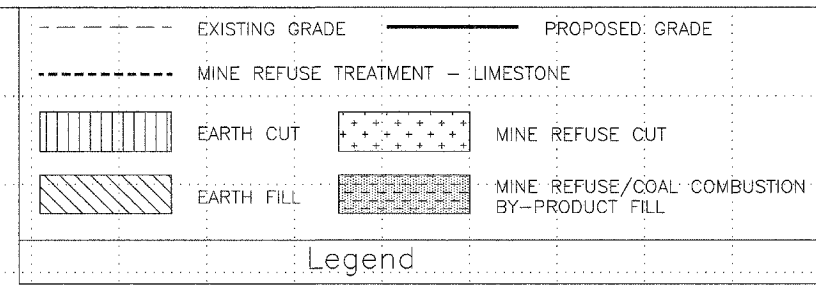


**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
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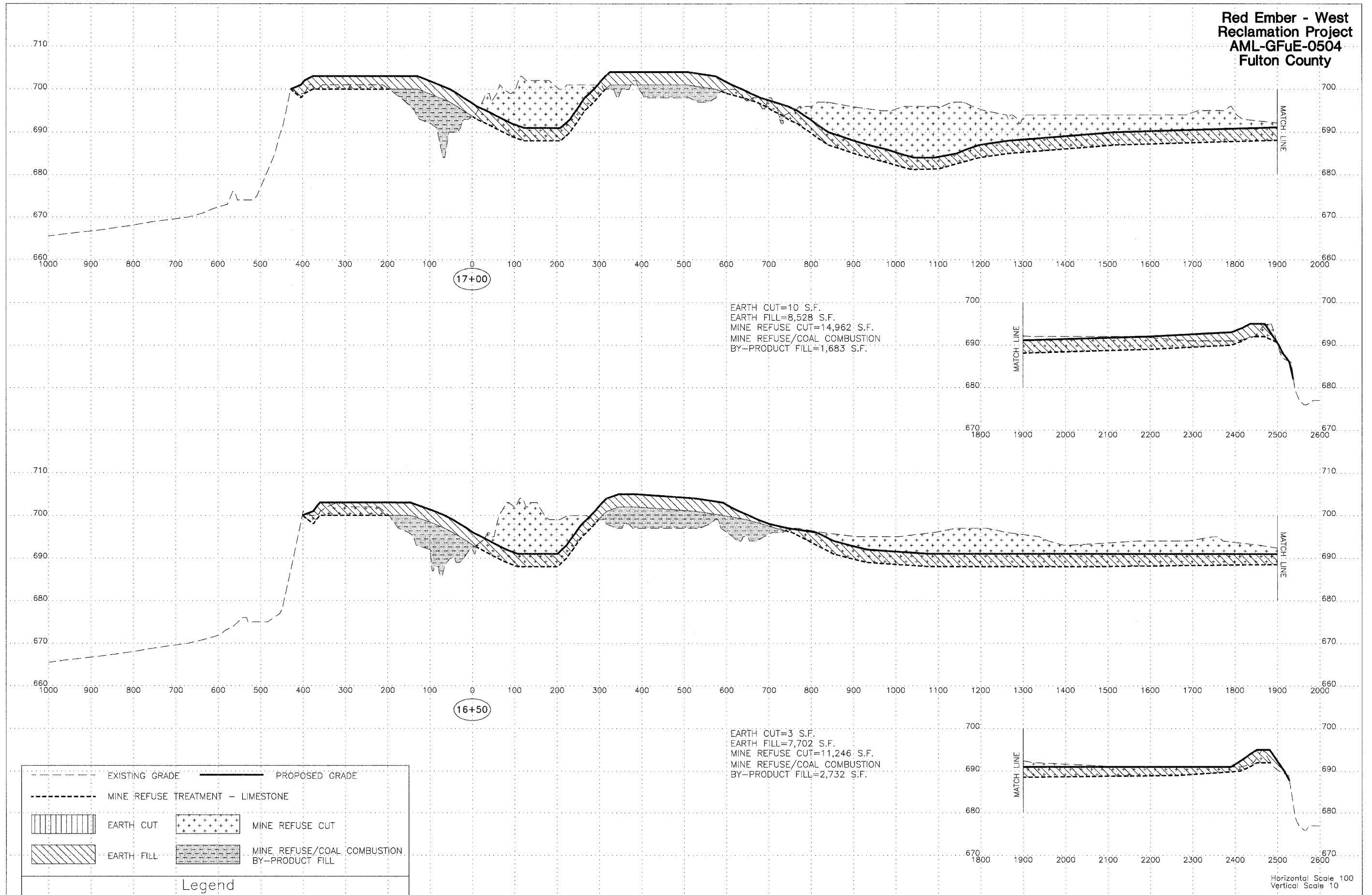




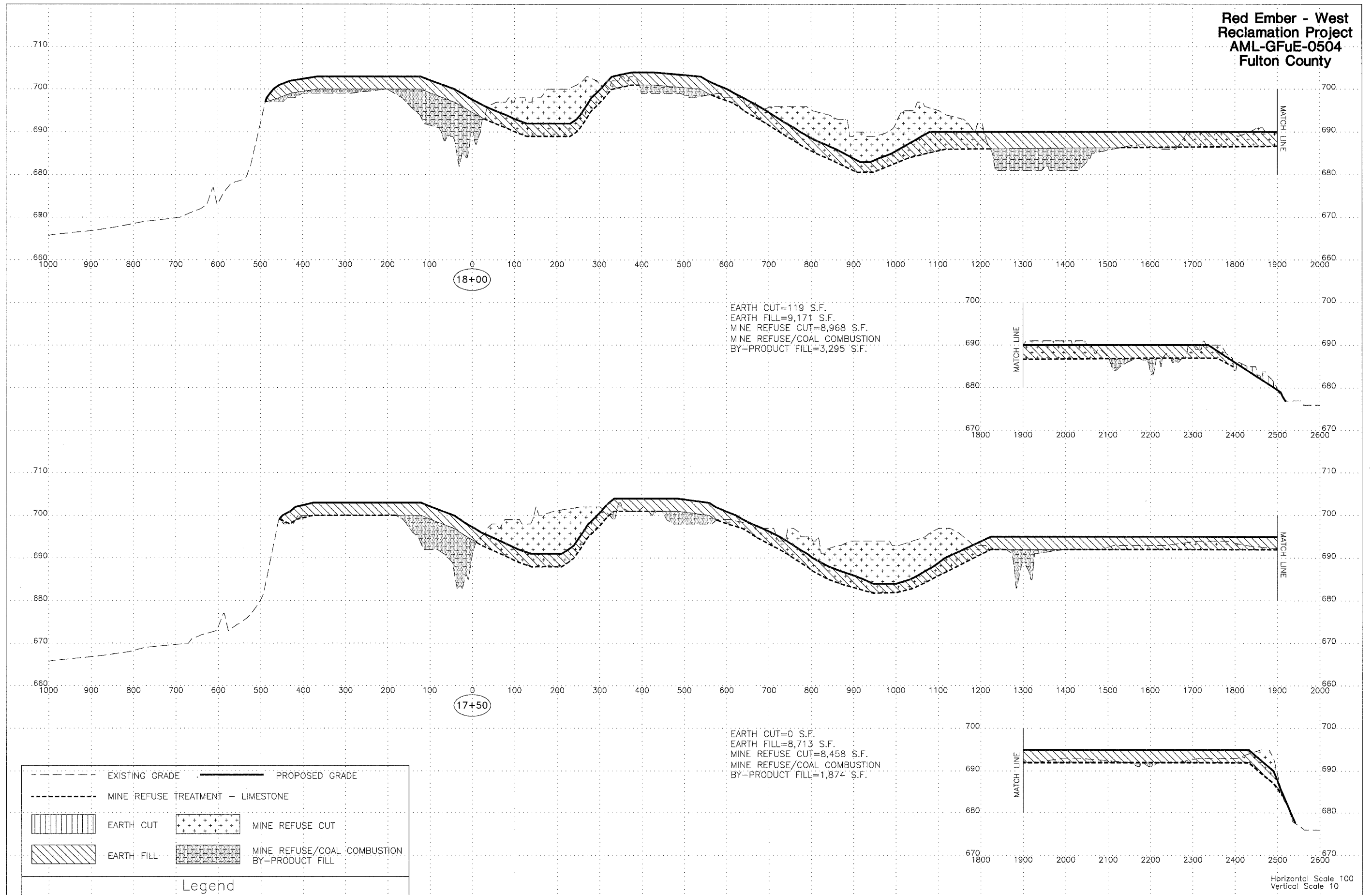




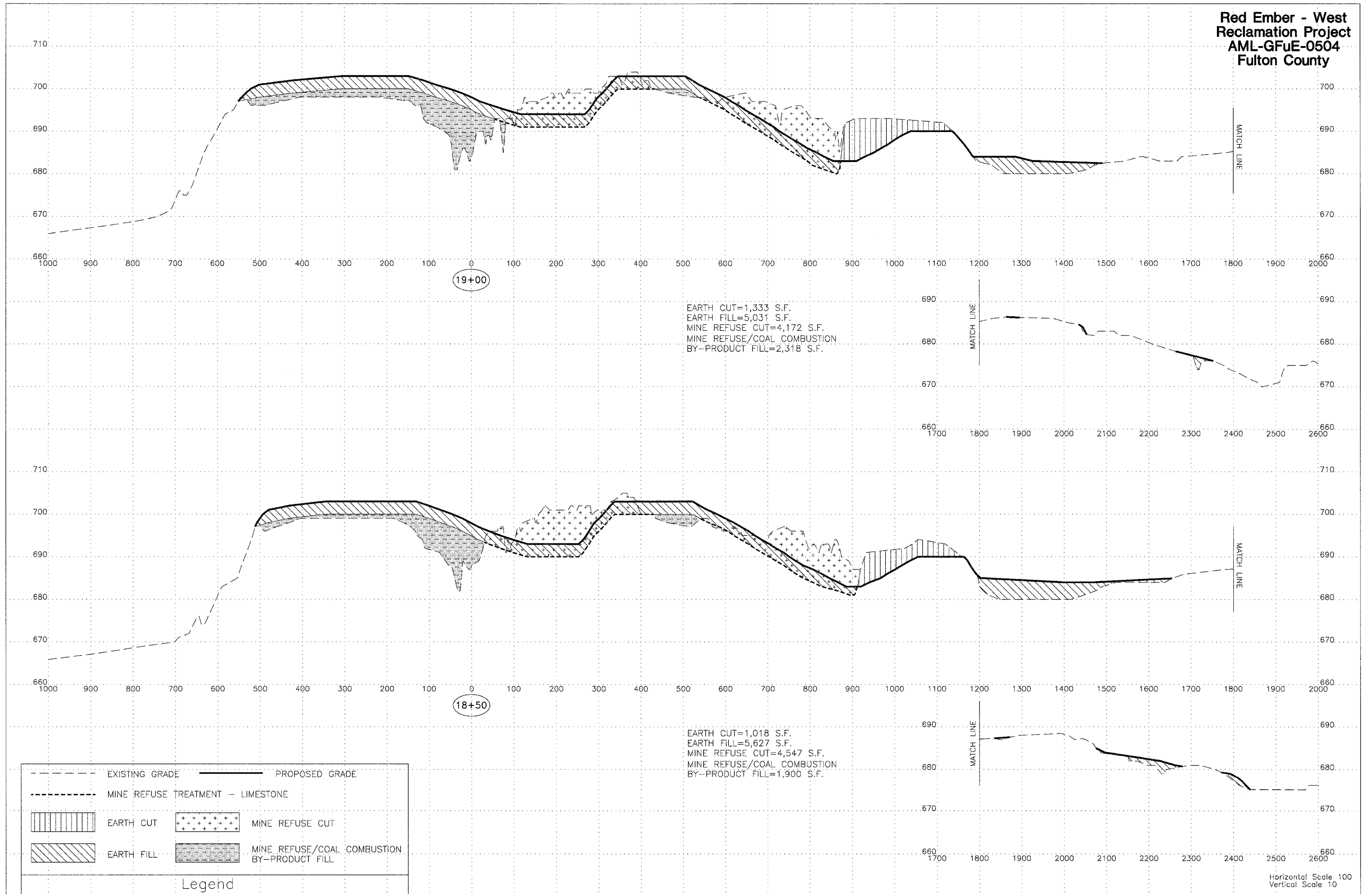




**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



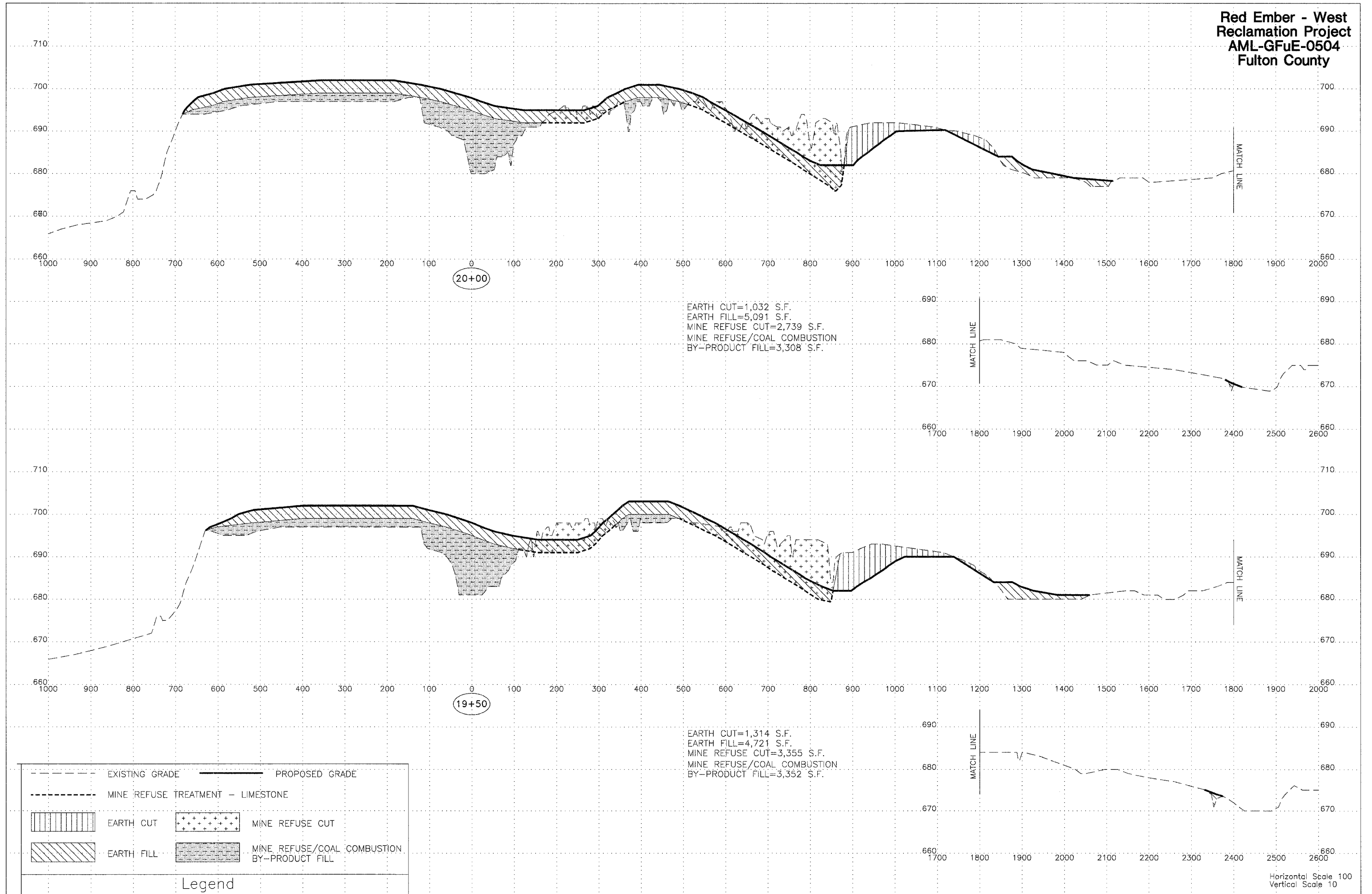
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



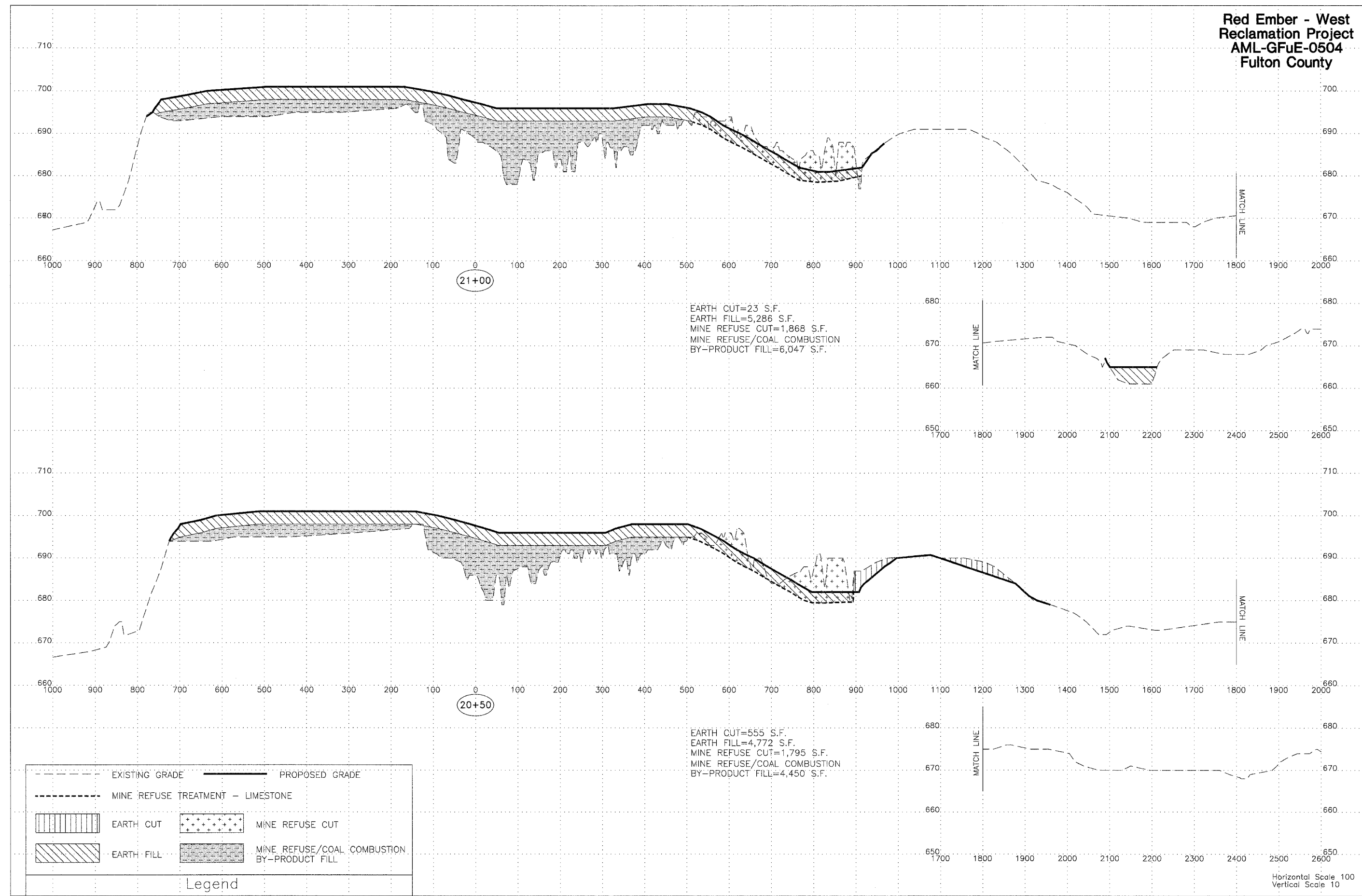
|  |                                   |  |   |
|--|-----------------------------------|--|---|
|  | EXISTING GRADE                    |  | PROPOSED GRADE                              |
|  | MINE REFUSE TREATMENT - LIMESTONE |  |   |
|  | EARTH CUT                         |  | MINE REFUSE CUT                             |
|  | EARTH FILL                        |  | MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL |

Legend

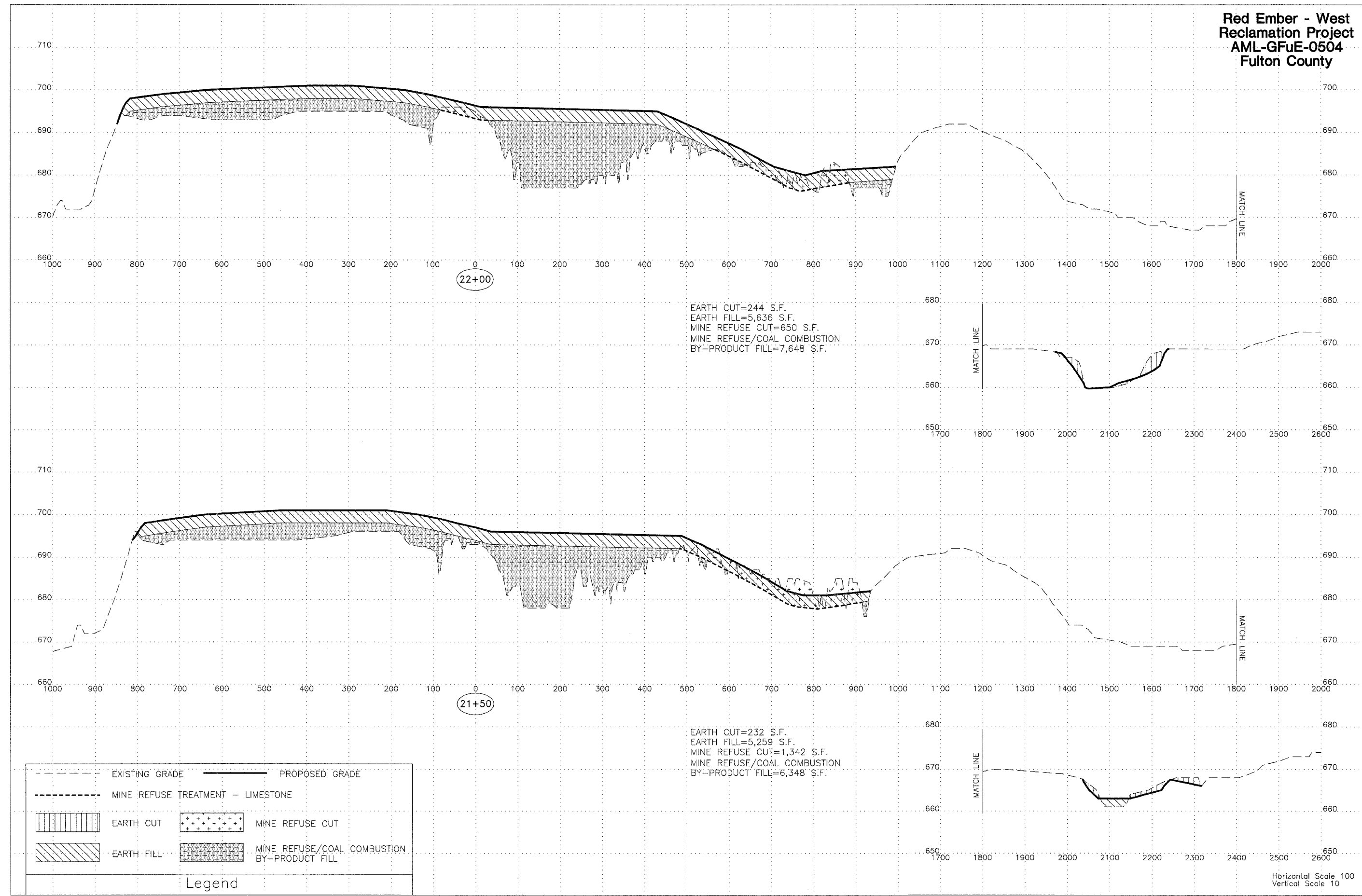
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Vertical Scale 10



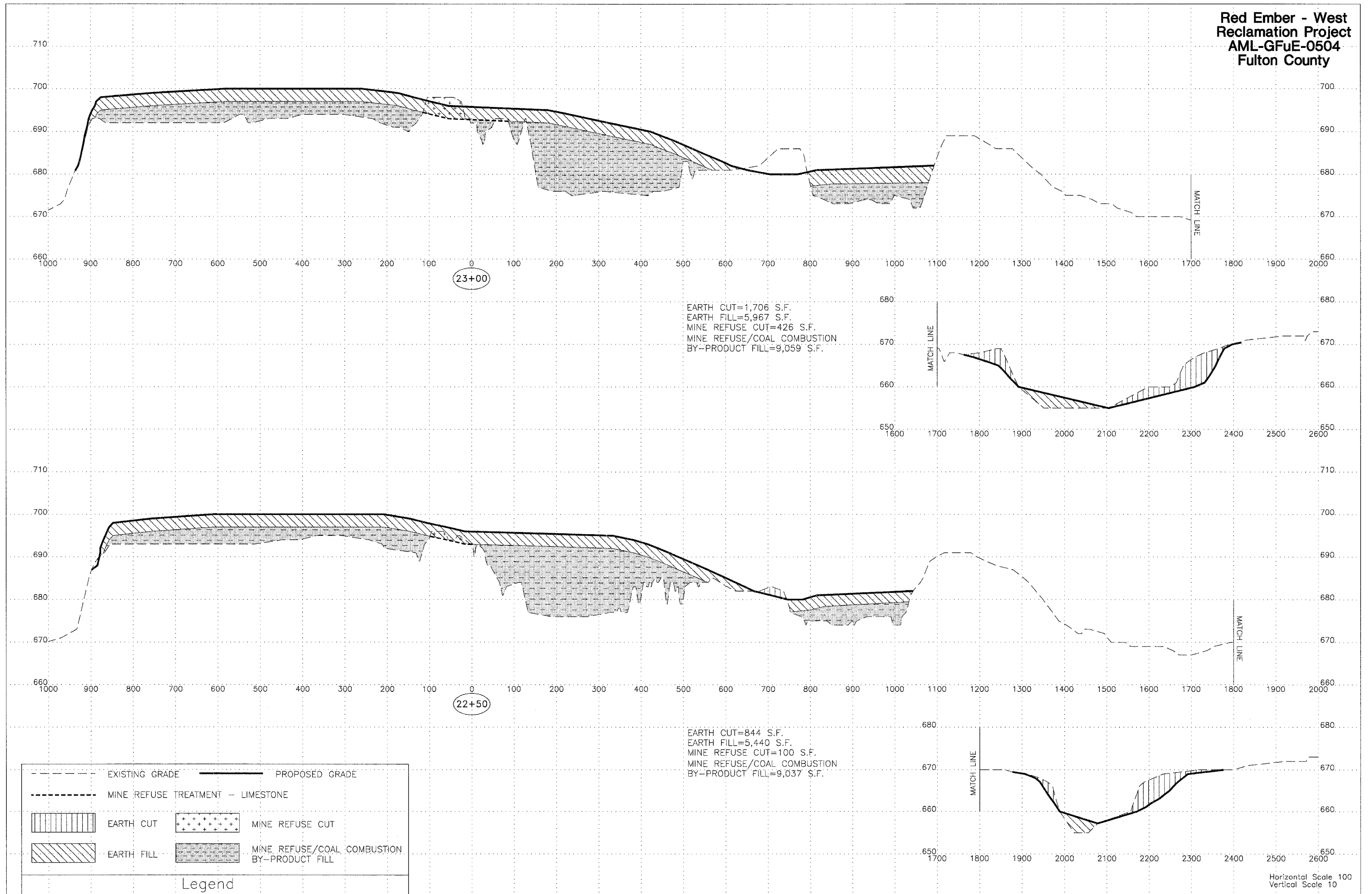
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**

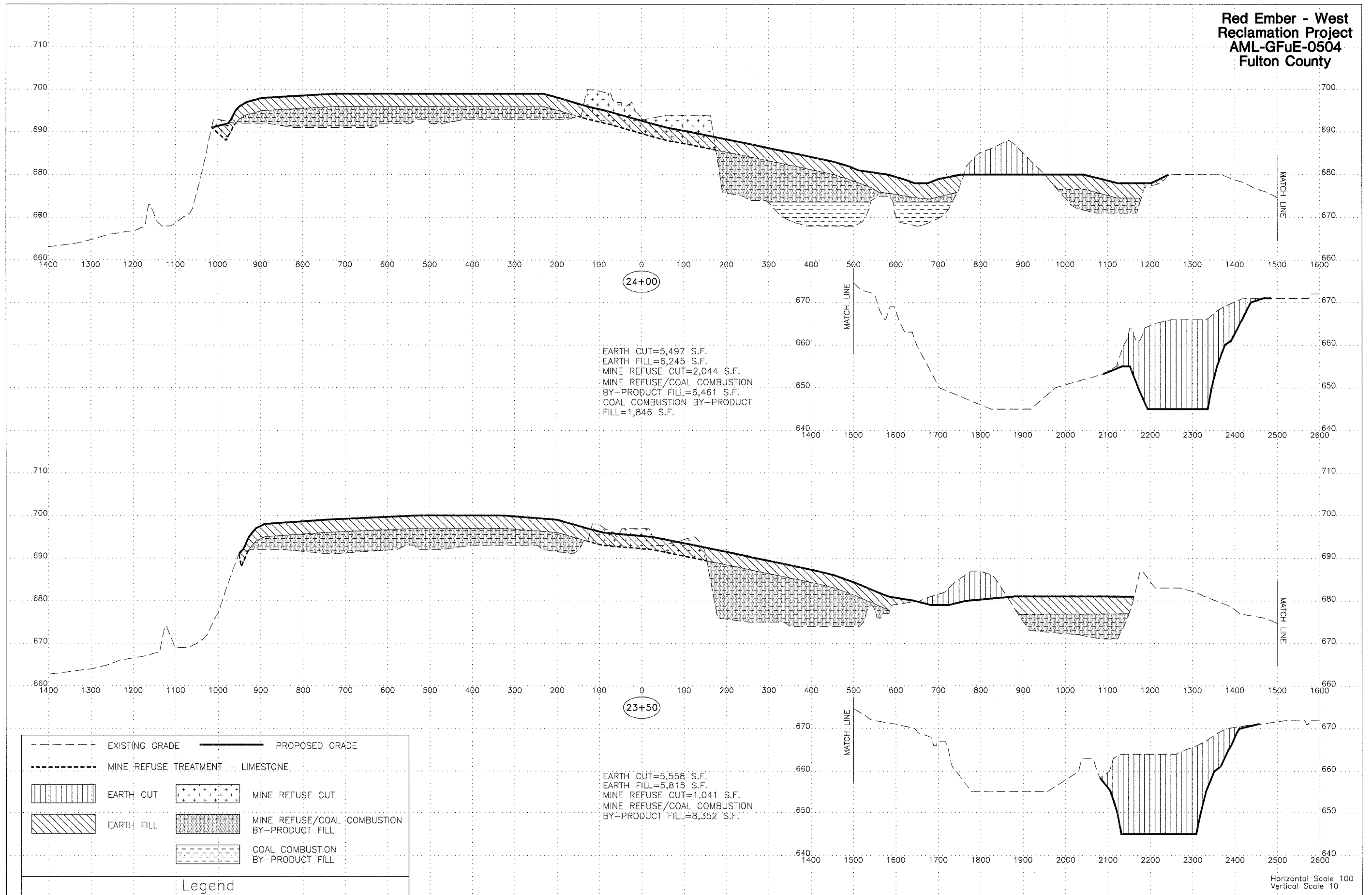


**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



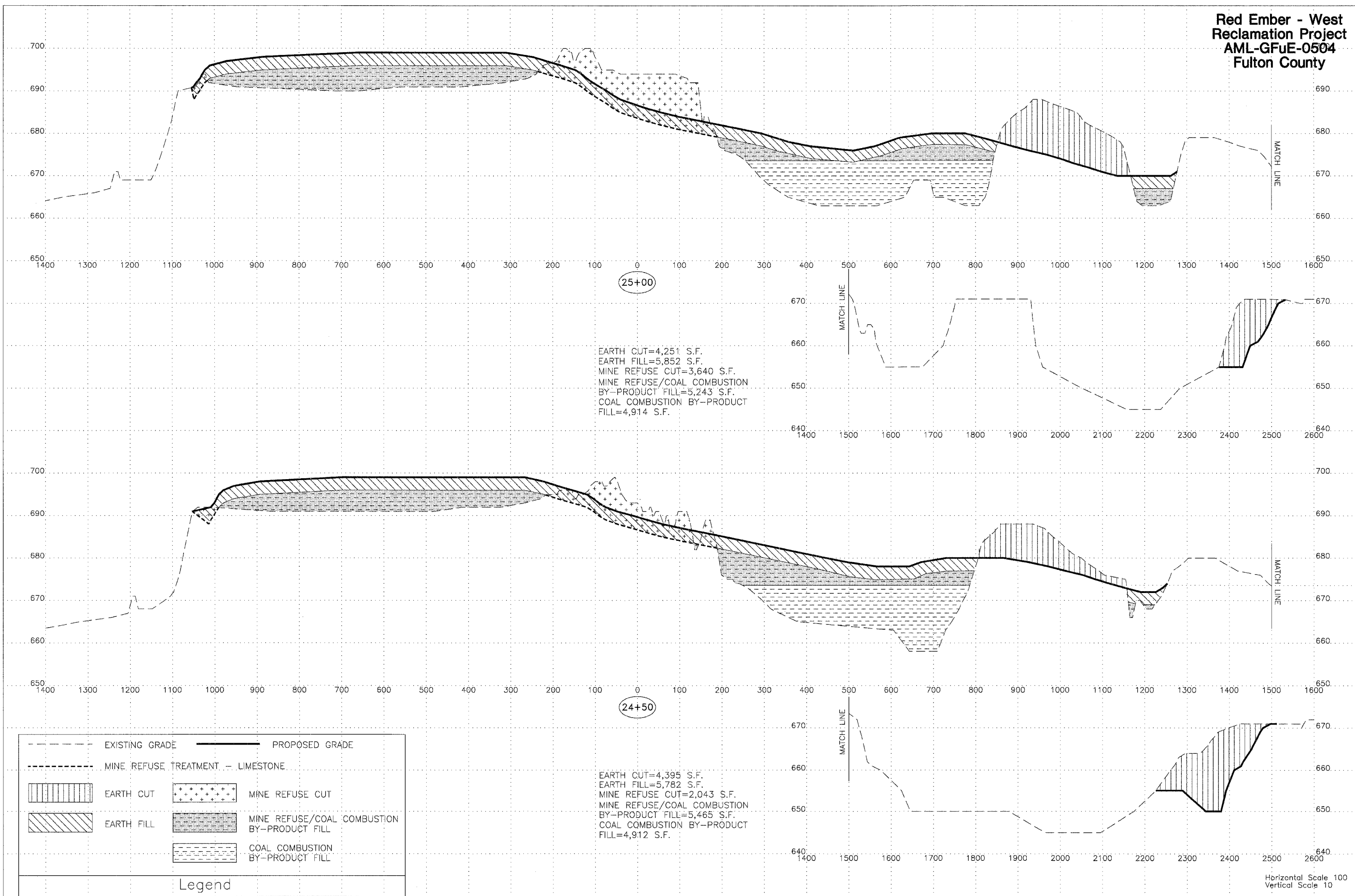
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



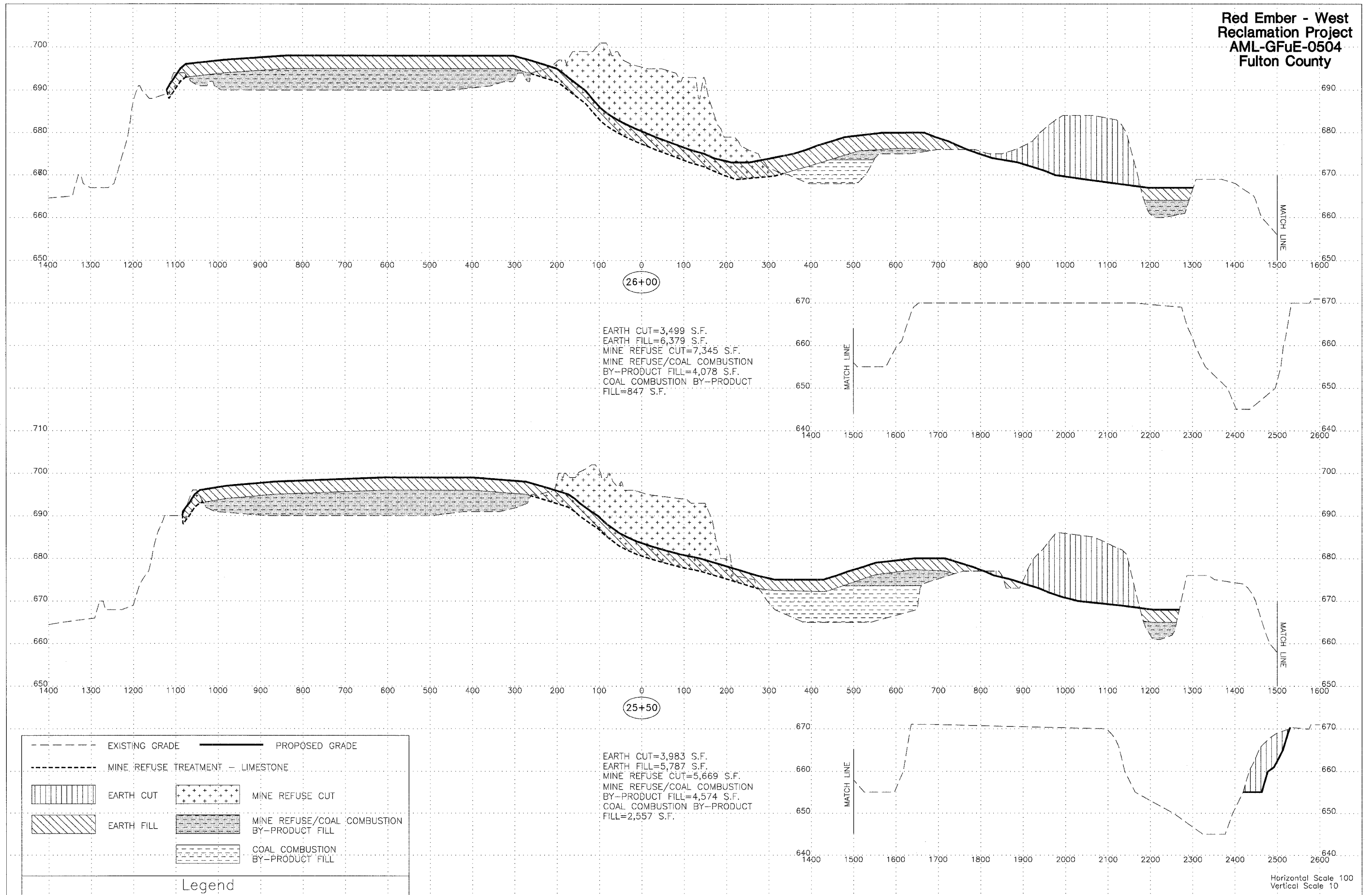




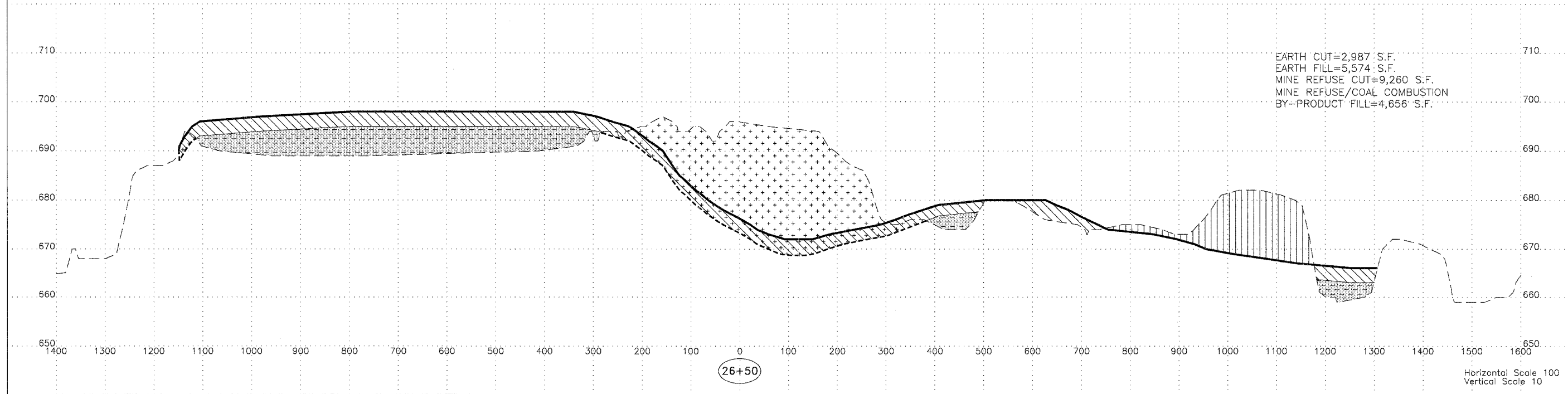
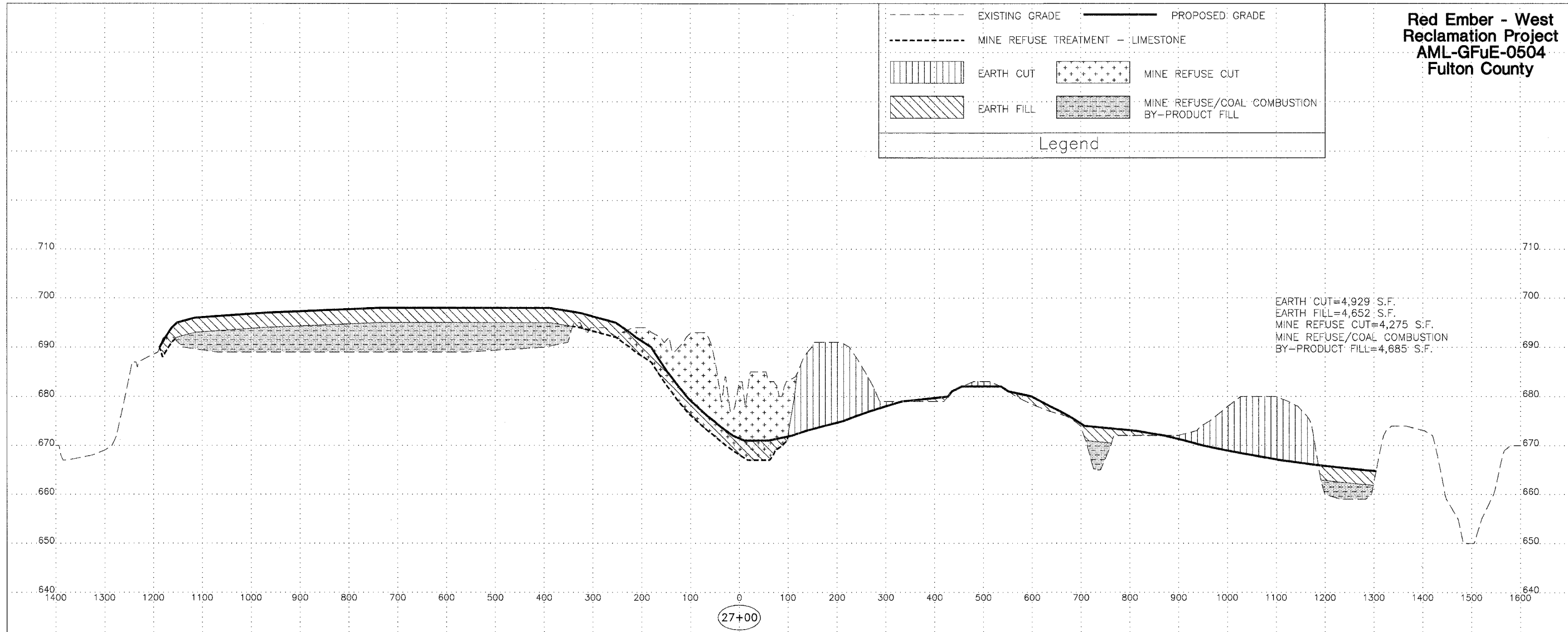
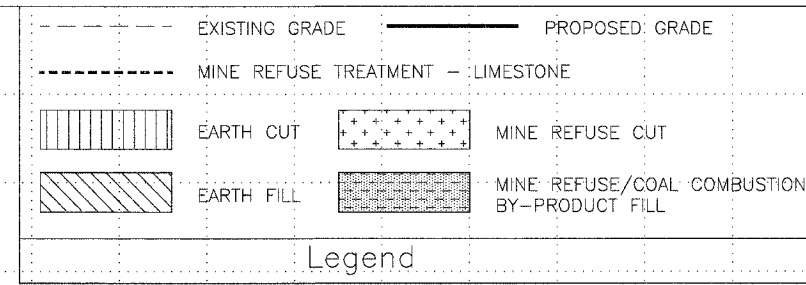
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
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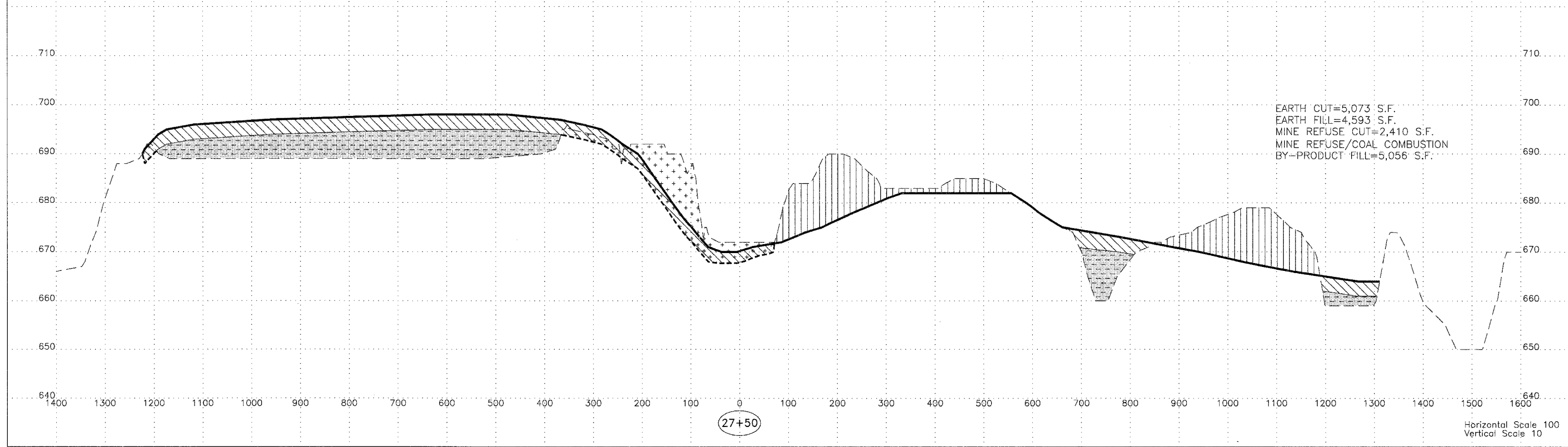
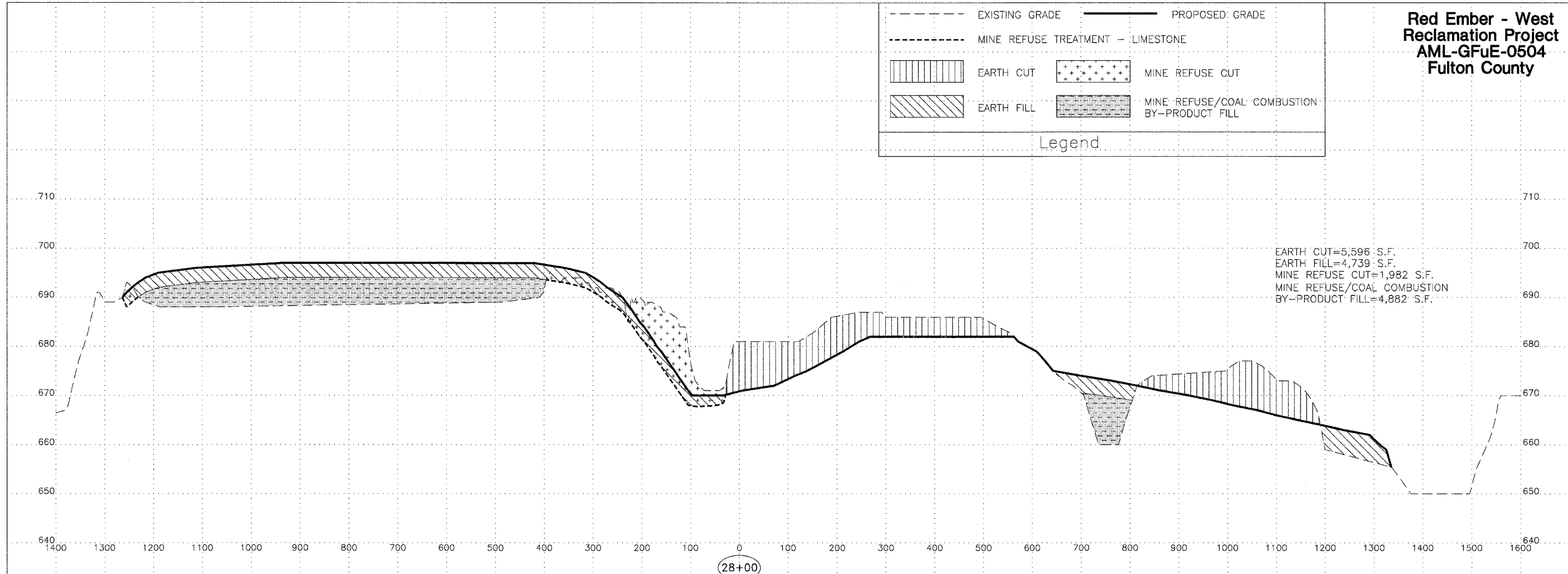
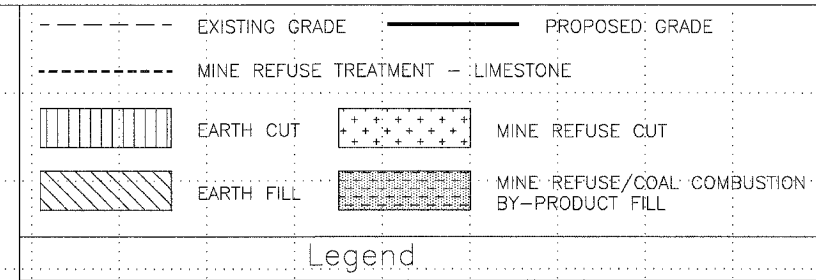


**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



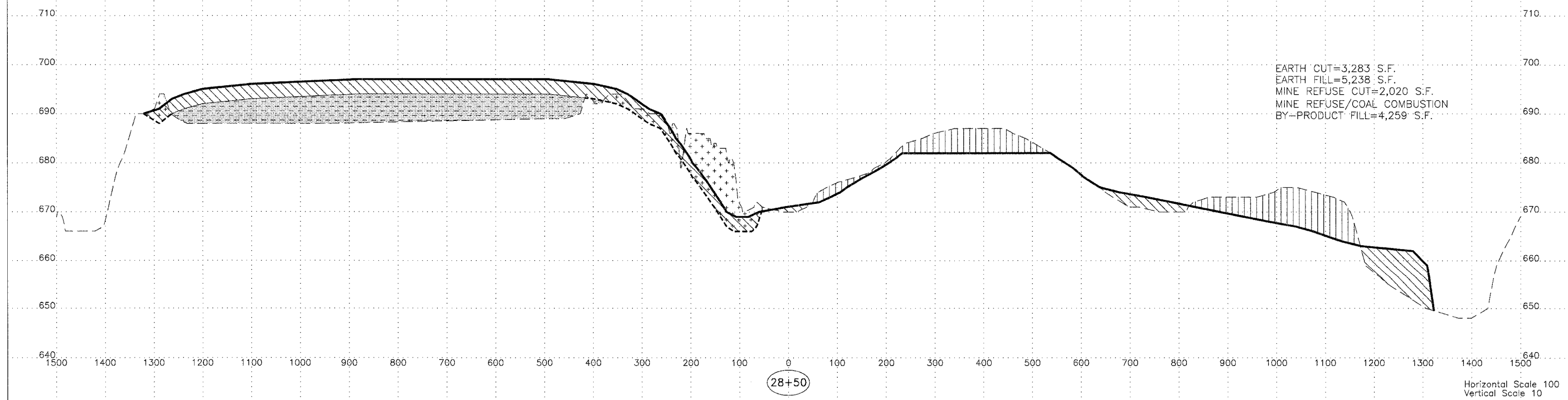
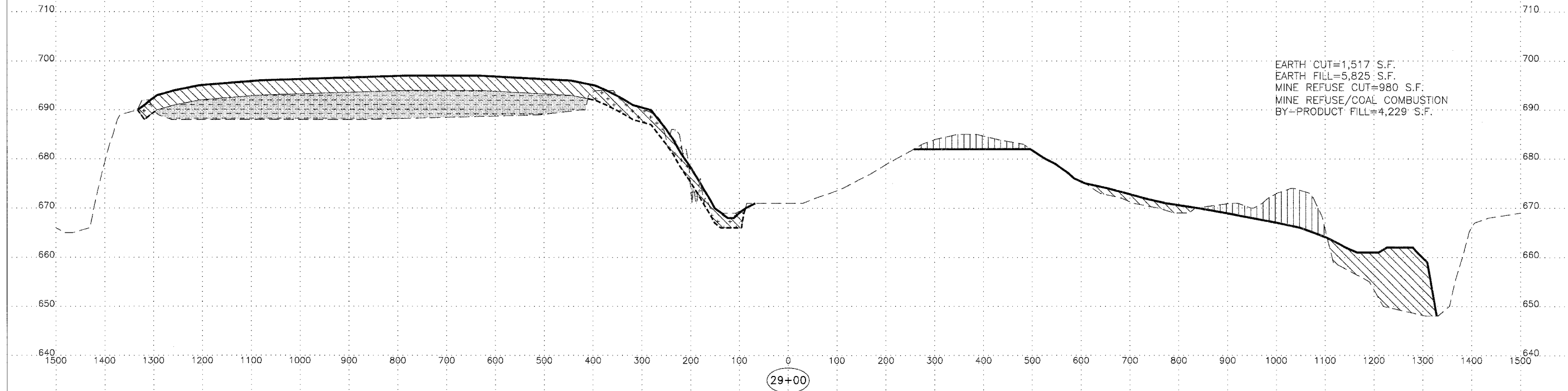
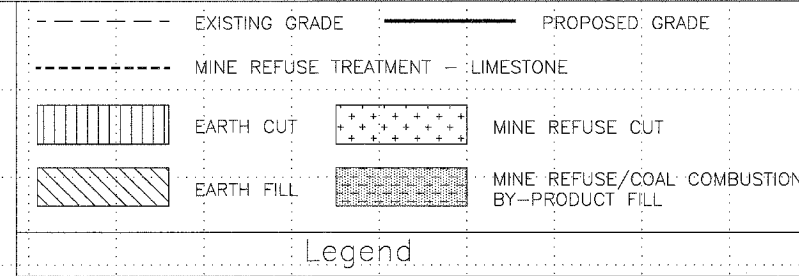
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Vertical Scale 10

**Red Ember - West  
Reclamation Project  
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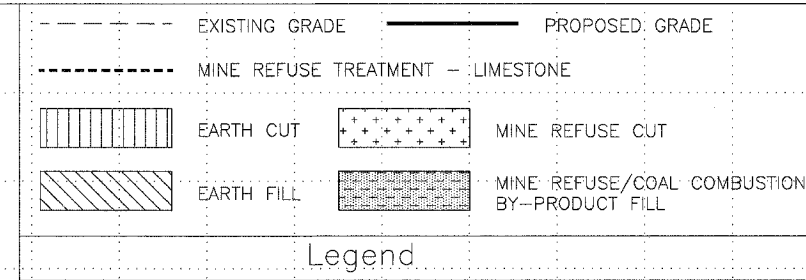
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**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
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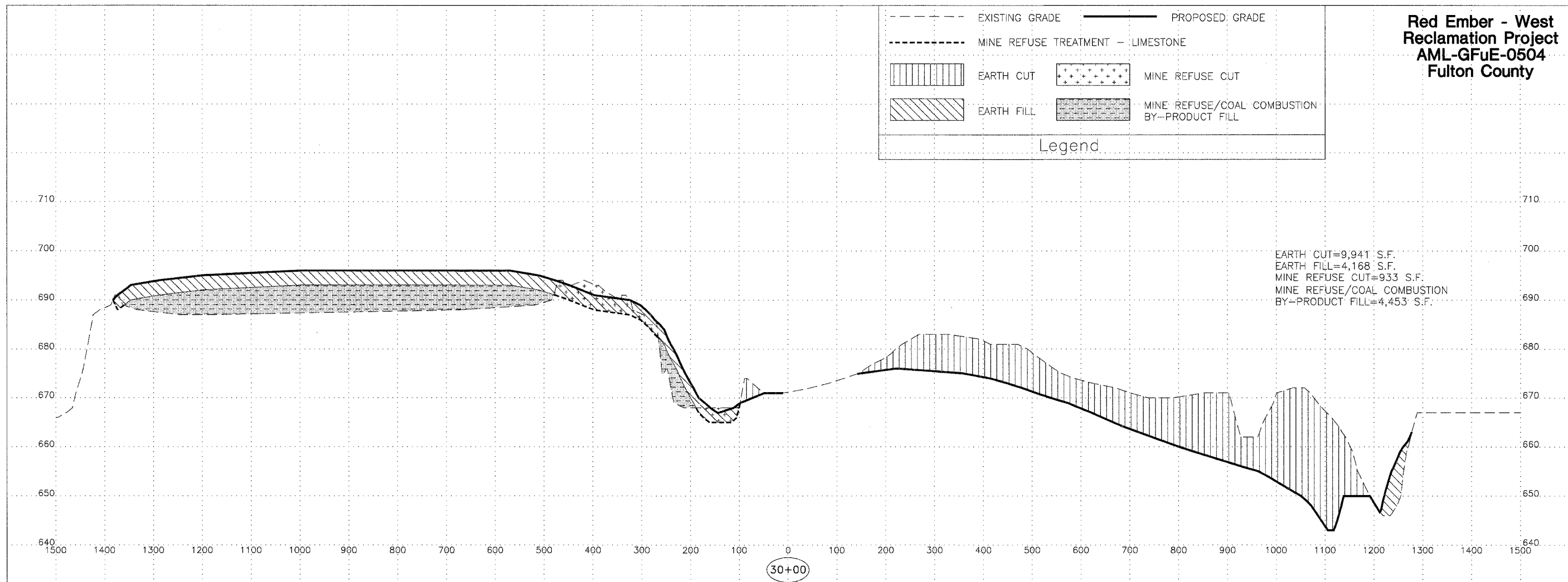


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Vertical Scale 10

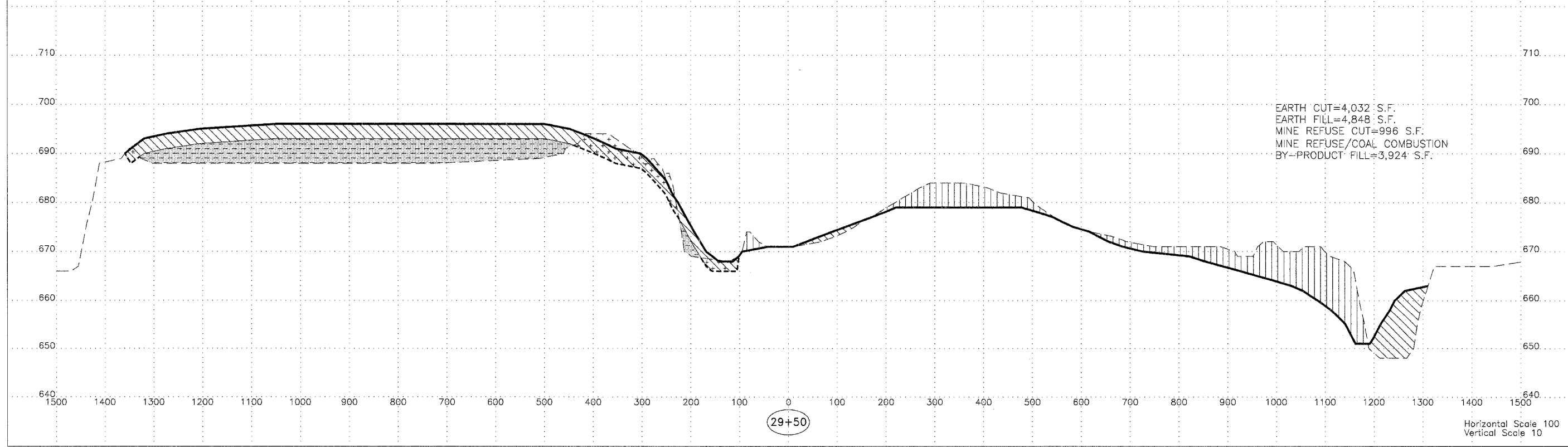
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



EARTH CUT=9,941 S.F.  
EARTH FILL=4,168 S.F.  
MINE REFUSE CUT=933 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=4,453 S.F.

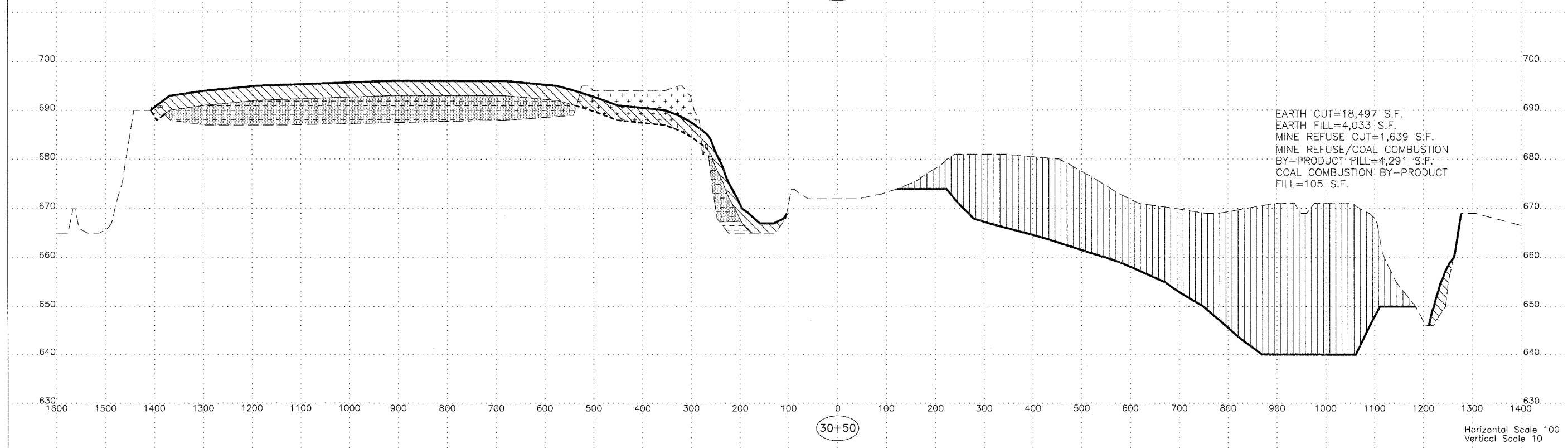
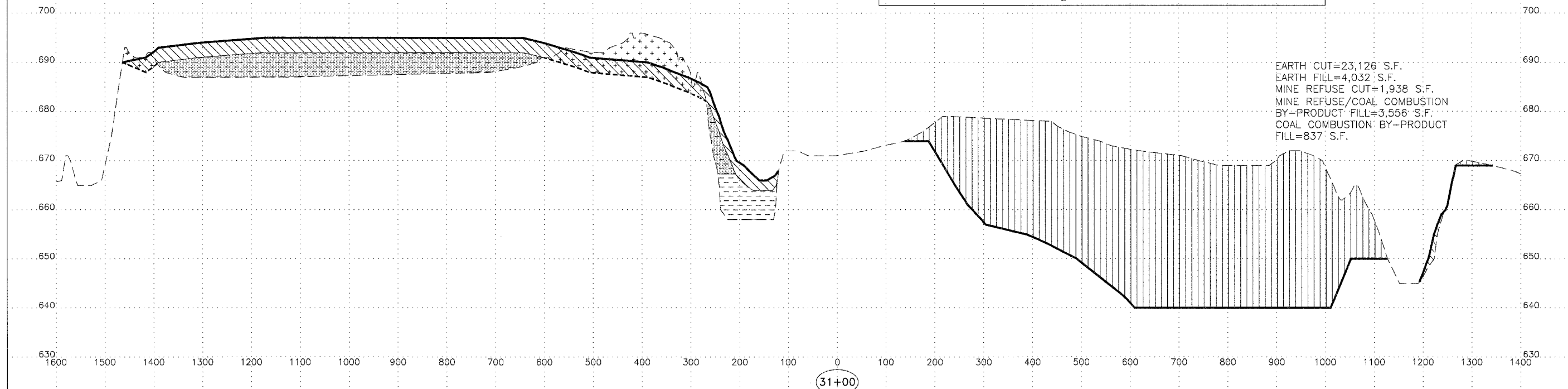
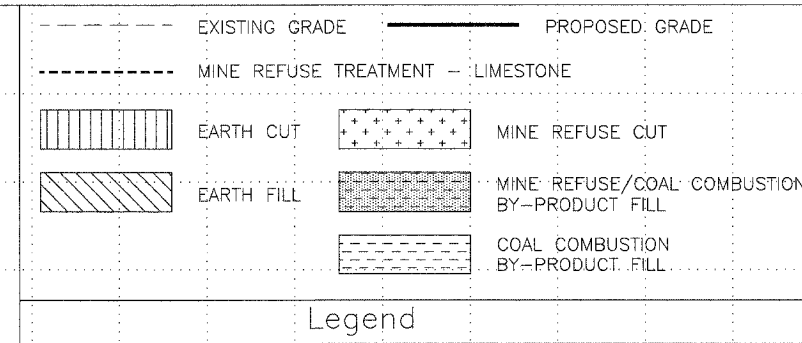


EARTH CUT=4,032 S.F.  
EARTH FILL=4,848 S.F.  
MINE REFUSE CUT=996 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=3,924 S.F.



Horizontal Scale 100  
Vertical Scale 10

**Red Ember - West  
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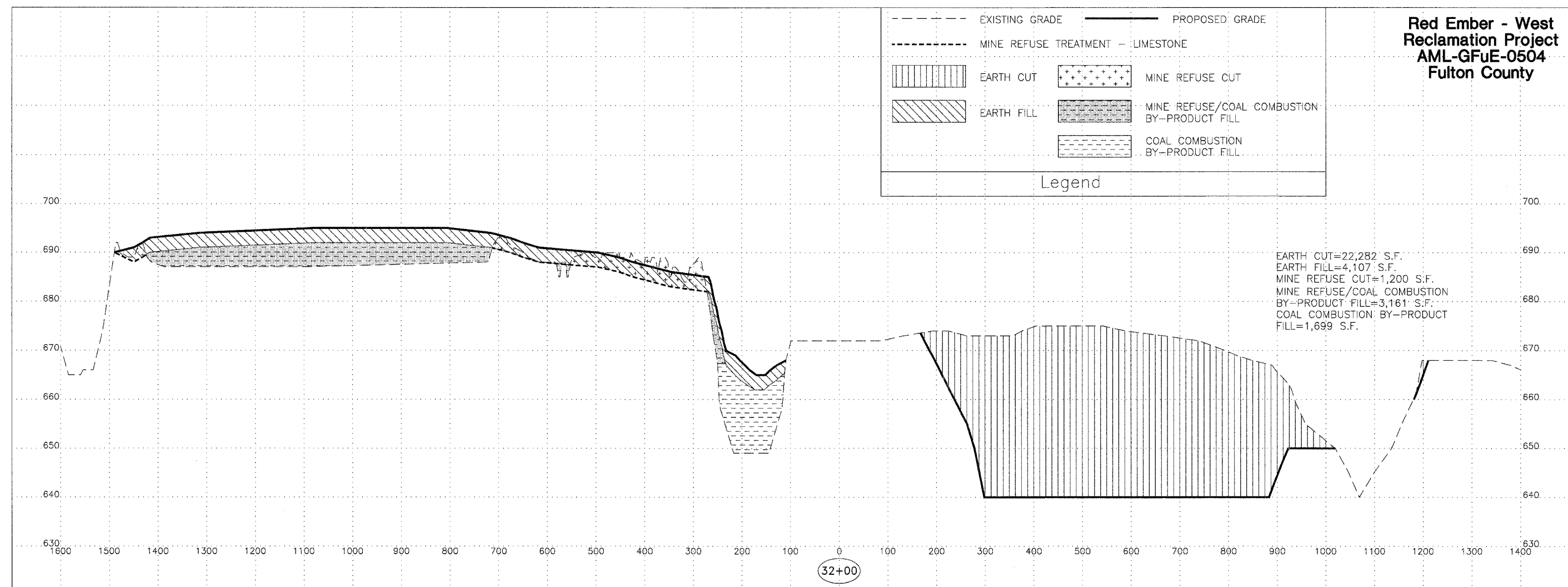


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Vertical Scale 10

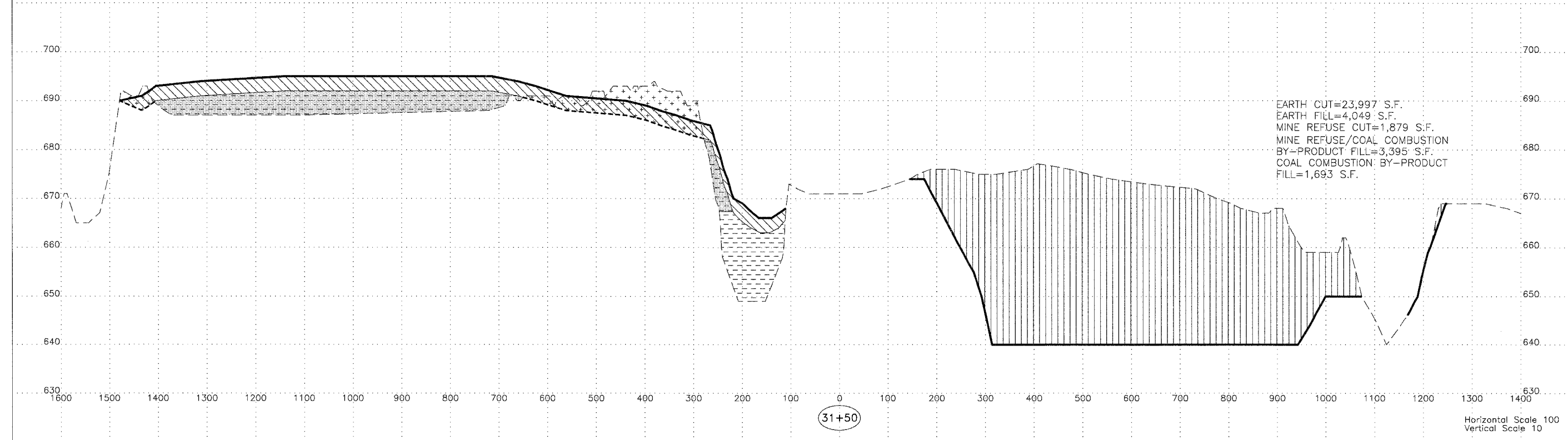
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**

|                  |                                   |                     |   |
|------------------|-----------------------------------|---------------------|---|
| ---              | EXISTING GRADE                    | —                   | PROPOSED GRADE                              |
| - - -            | MINE REFUSE TREATMENT - LIMESTONE |                     |   |
| [Vertical Lines] | EARTH CUT                         | [Cross-hatch]       | MINE REFUSE CUT                             |
| [Diagonal Lines] | EARTH FILL                        | [Stippled]          | MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL |
|                  |                                   | [Horizontal Dashed] | COAL COMBUSTION BY-PRODUCT FILL             |

Legend



EARTH CUT=22,282' S.F.  
 EARTH FILL=4,107' S.F.  
 MINE REFUSE CUT=1,200' S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=3,161' S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=1,699' S.F.

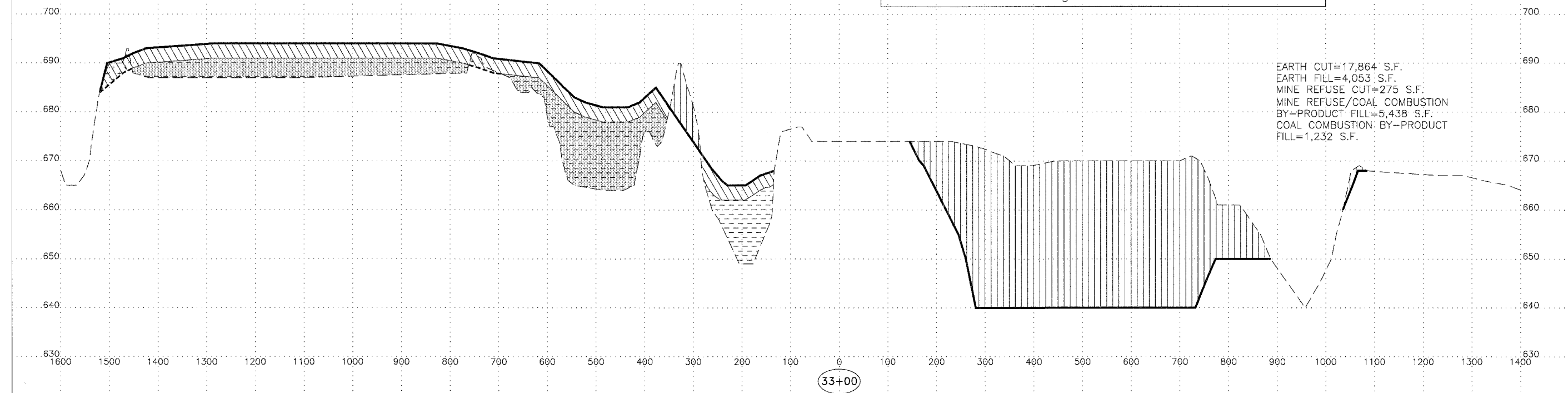
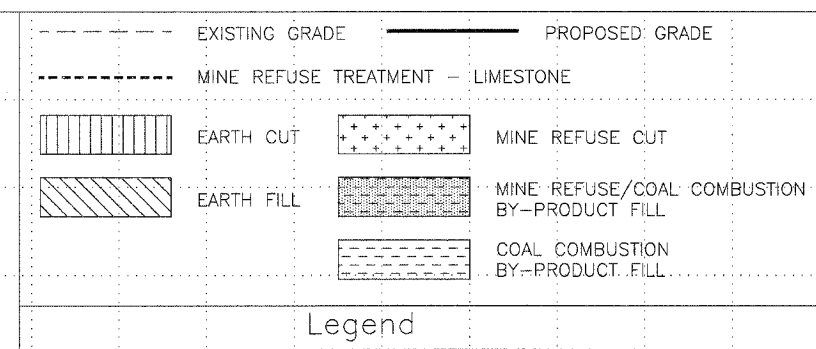


EARTH CUT=23,997' S.F.  
 EARTH FILL=4,049' S.F.  
 MINE REFUSE CUT=1,879' S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=3,395' S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=1,693' S.F.

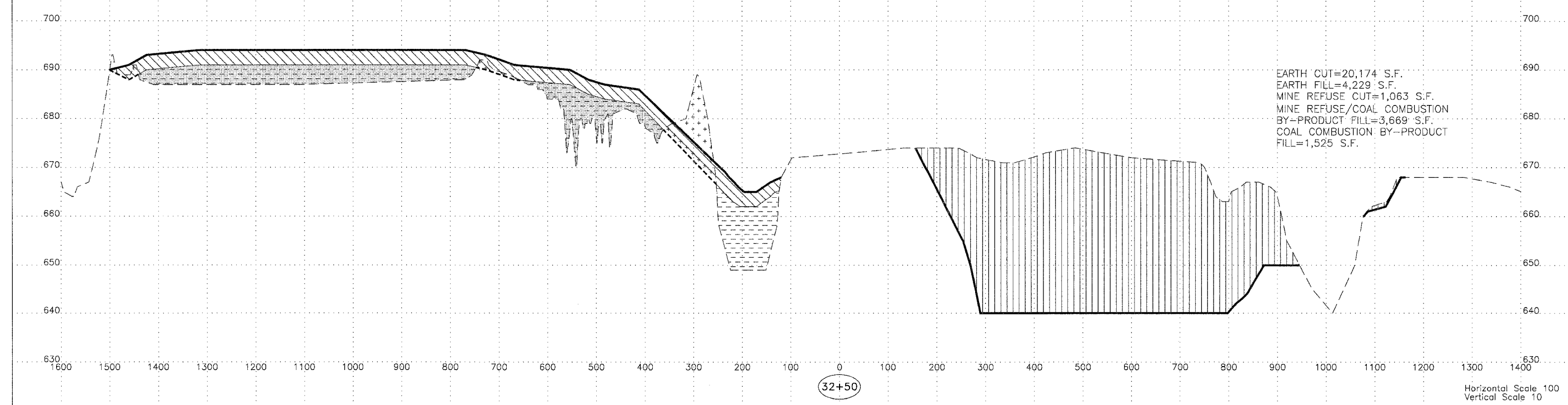
Horizontal Scale 100  
 Vertical Scale 10



**Red Ember - West  
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Fulton County**



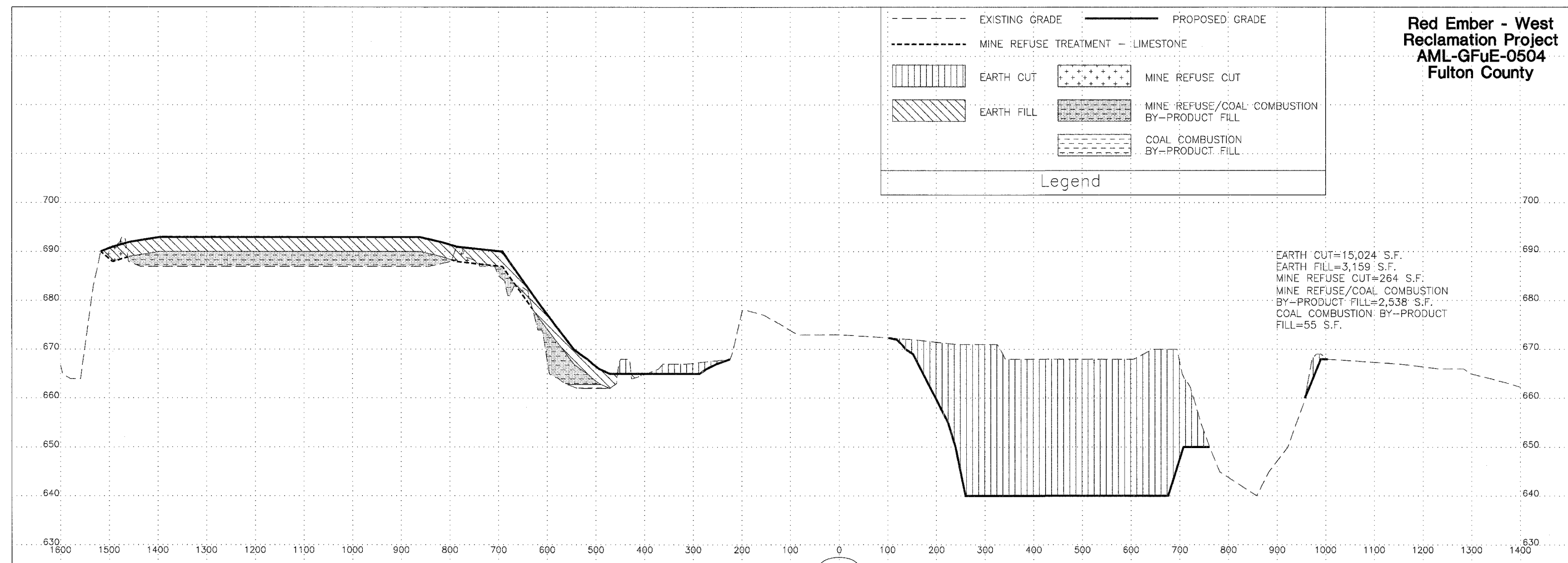
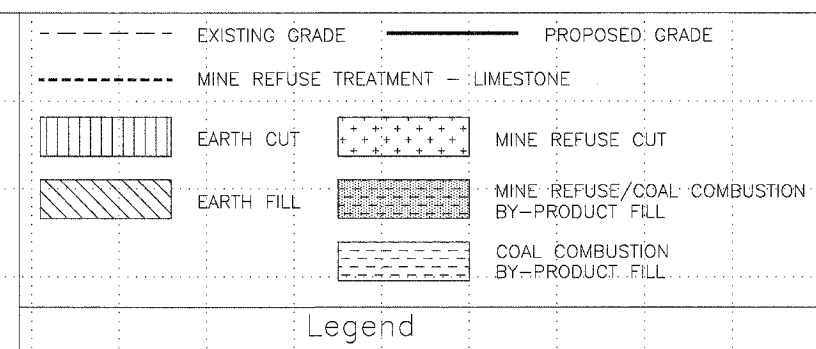
EARTH CUT=17,864 S.F.  
 EARTH FILL=4,053 S.F.  
 MINE REFUSE CUT=275 S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=5,438 S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=1,232 S.F.



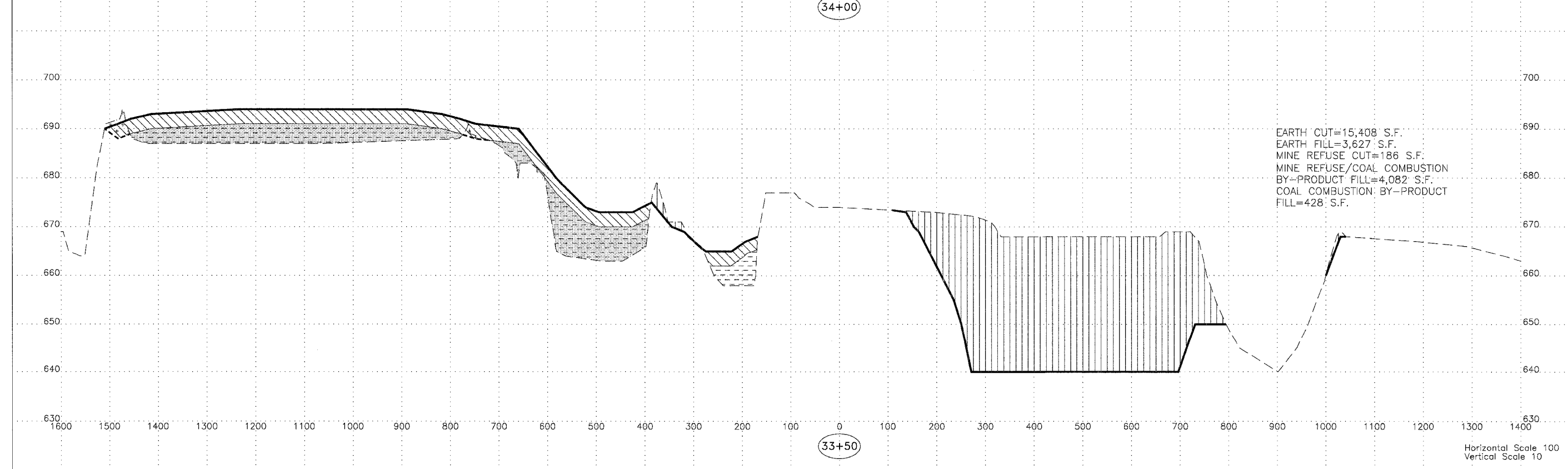
EARTH CUT=20,174 S.F.  
 EARTH FILL=4,229 S.F.  
 MINE REFUSE CUT=1,063 S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=3,669 S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=1,525 S.F.

Horizontal Scale 100  
 Vertical Scale 10

**Red Ember - West  
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AML-GFuE-0504  
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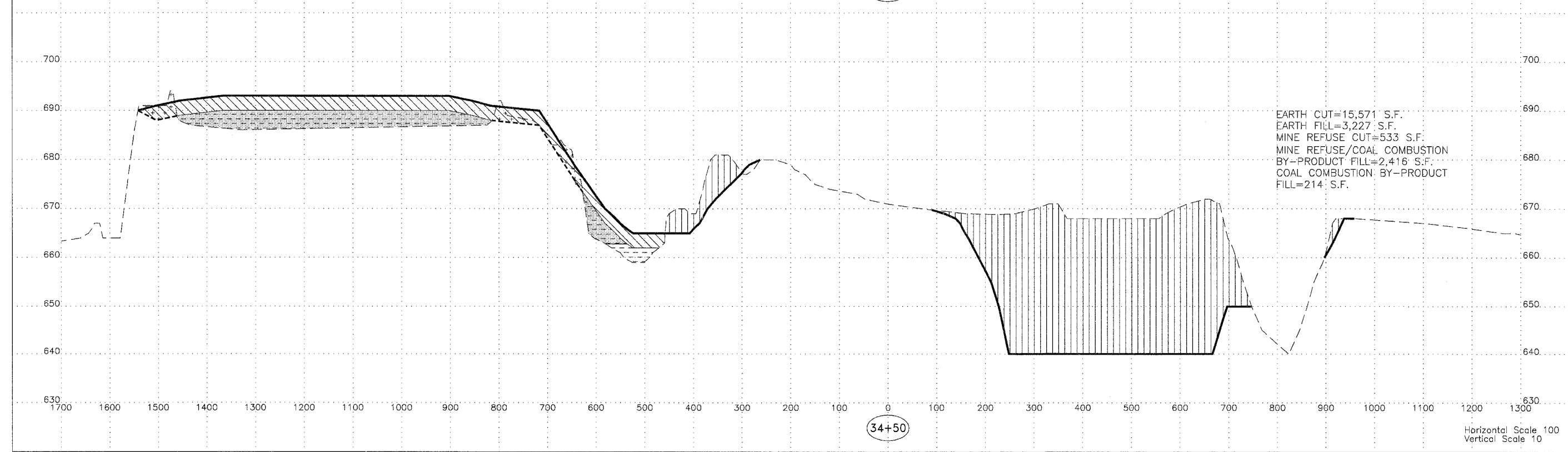
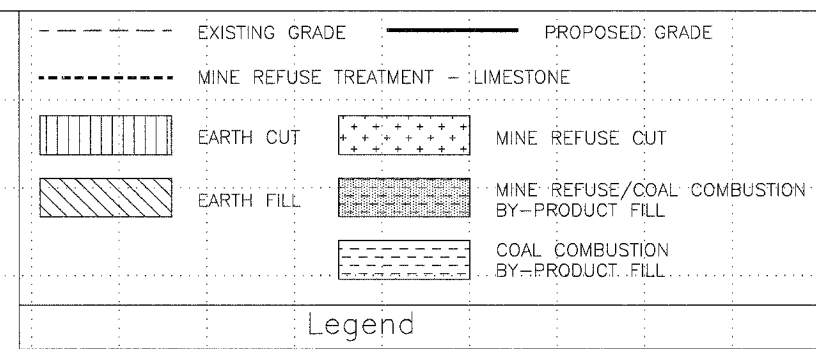
EARTH CUT=15,024 S.F.  
 EARTH FILL=3,159 S.F.  
 MINE REFUSE CUT=264 S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=2,538 S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=55 S.F.



EARTH CUT=15,408 S.F.  
 EARTH FILL=3,627 S.F.  
 MINE REFUSE CUT=186 S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=4,082 S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=428 S.F.

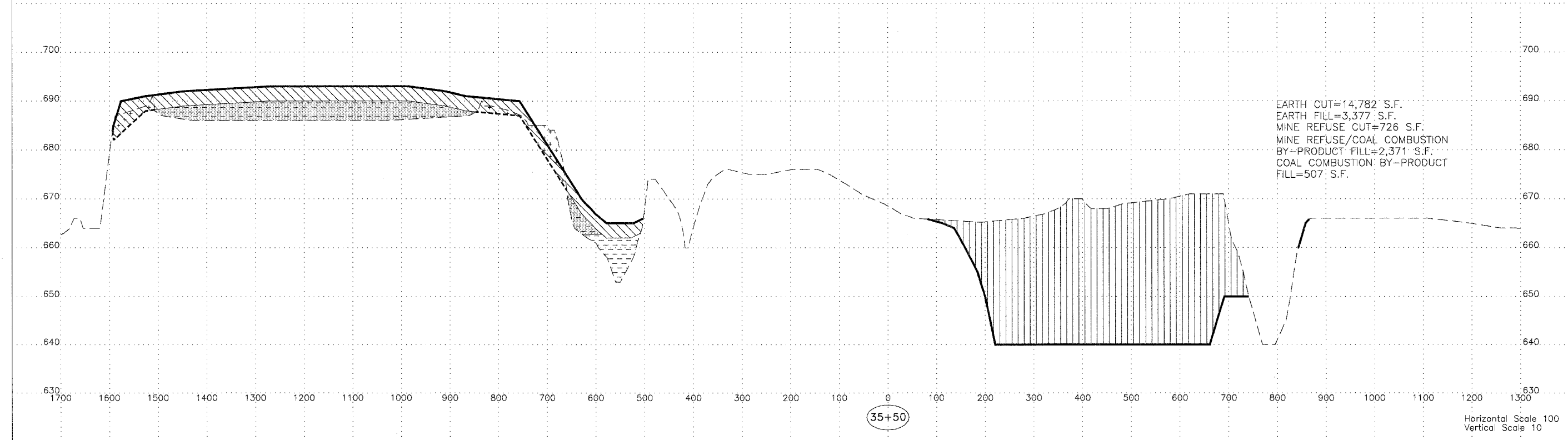
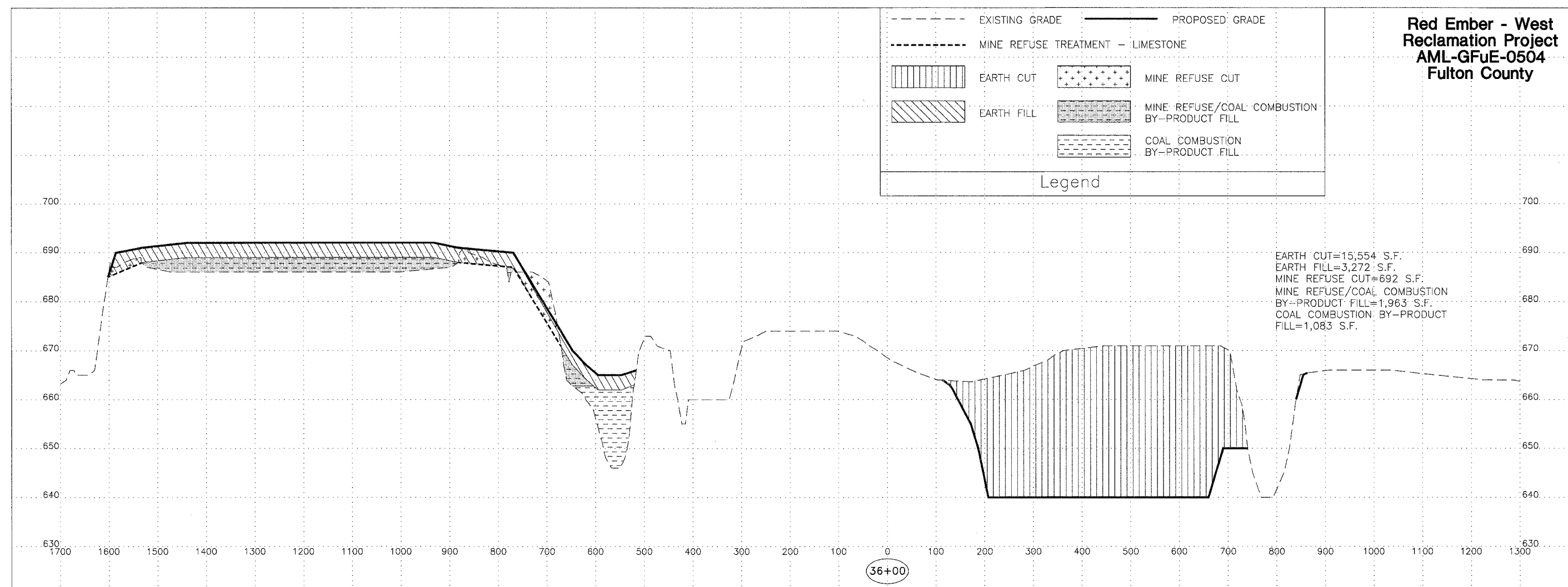
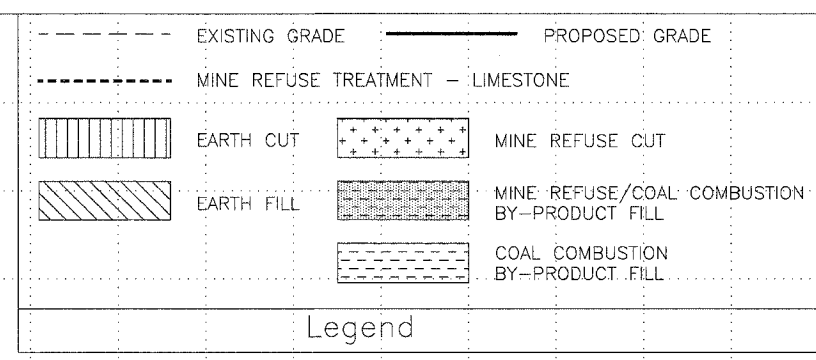
Horizontal Scale 100  
 Vertical Scale 10

**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



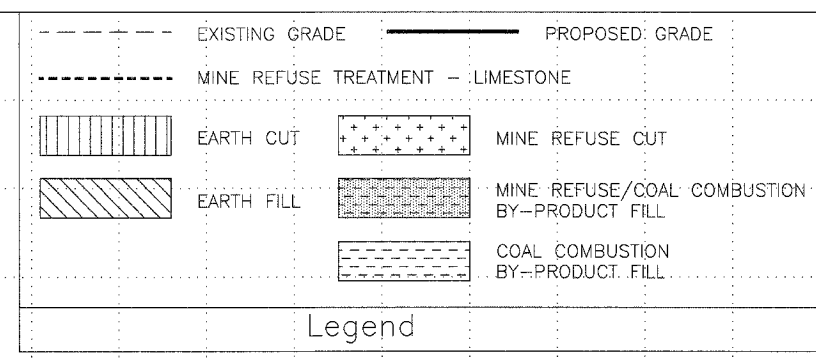
Horizontal Scale 100  
Vertical Scale 10

**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**

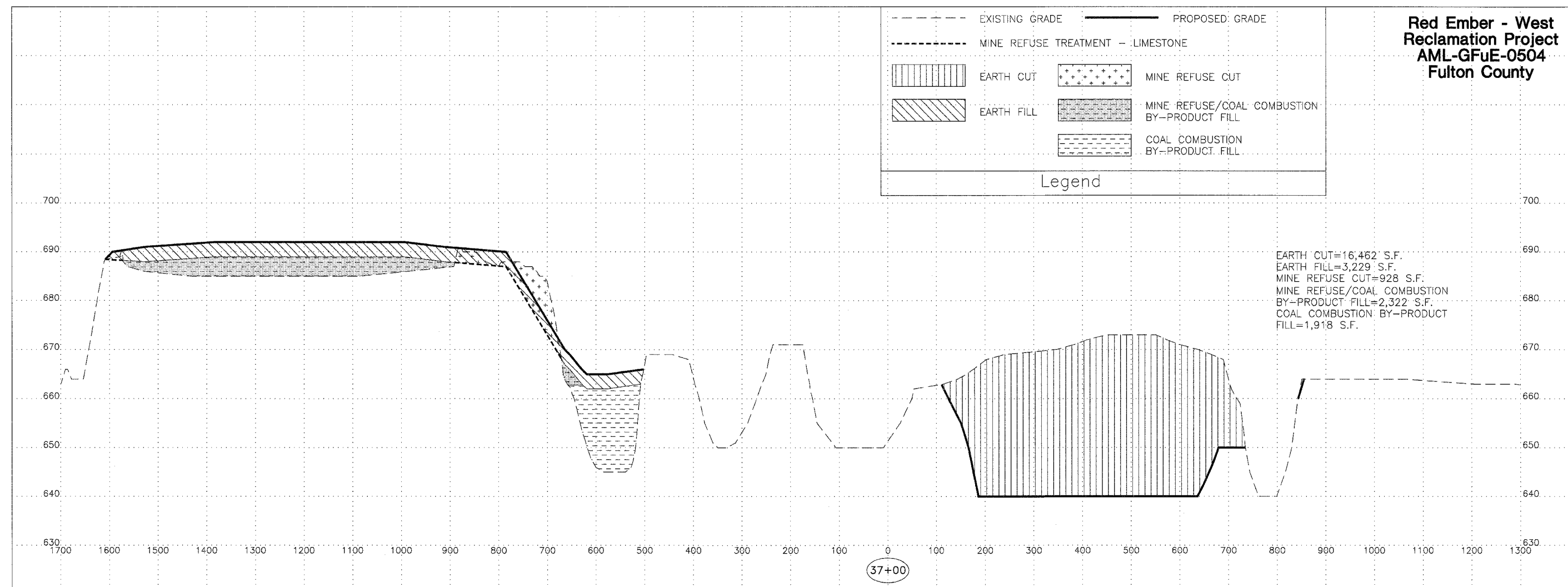


Horizontal Scale 100  
Vertical Scale 10

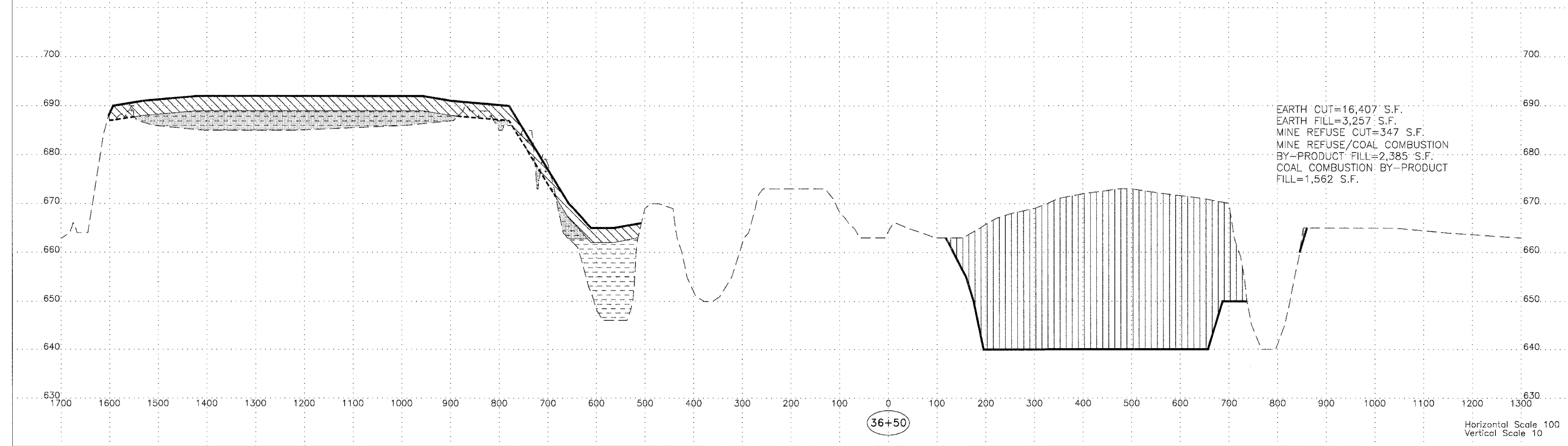
**Red Ember - West  
Reclamation Project  
AML-GFuE-0504  
Fulton County**



EARTH CUT=16,462 S.F.  
EARTH FILL=3,229 S.F.  
MINE REFUSE CUT=928 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=2,322 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=1,918 S.F.

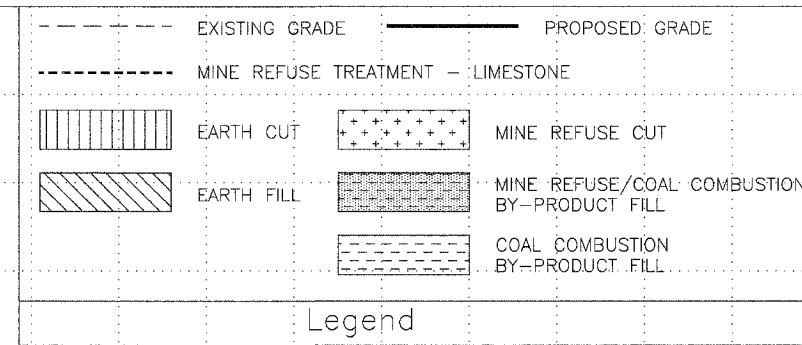


EARTH CUT=16,407 S.F.  
EARTH FILL=3,257 S.F.  
MINE REFUSE CUT=347 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=2,385 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=1,562 S.F.

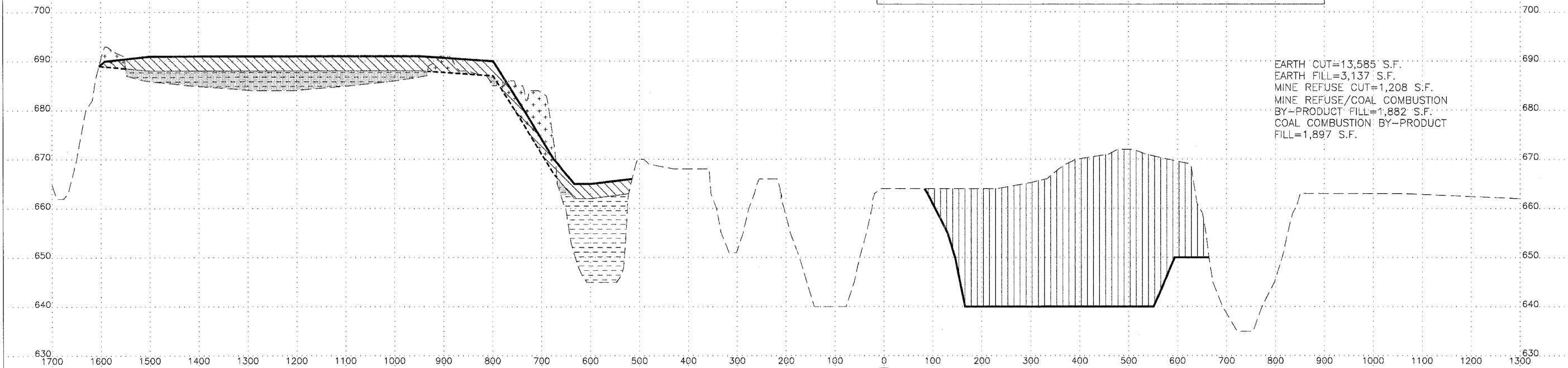


Horizontal Scale 100  
Vertical Scale 10

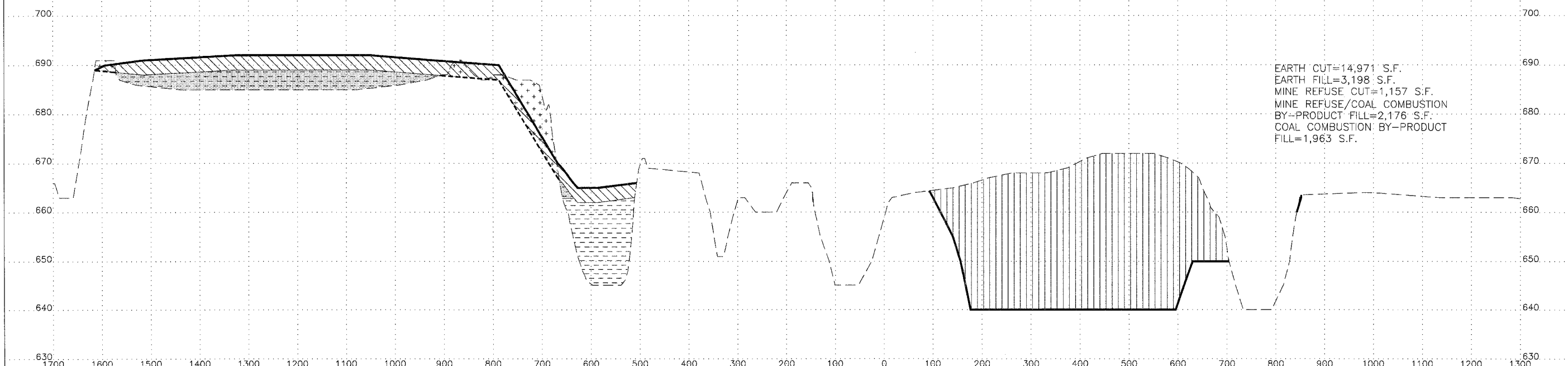
**Red Ember - West  
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EARTH CUT=13,585 S.F.  
EARTH FILL=3,137 S.F.  
MINE REFUSE CUT=1,208 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=1,882 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=1,897 S.F.

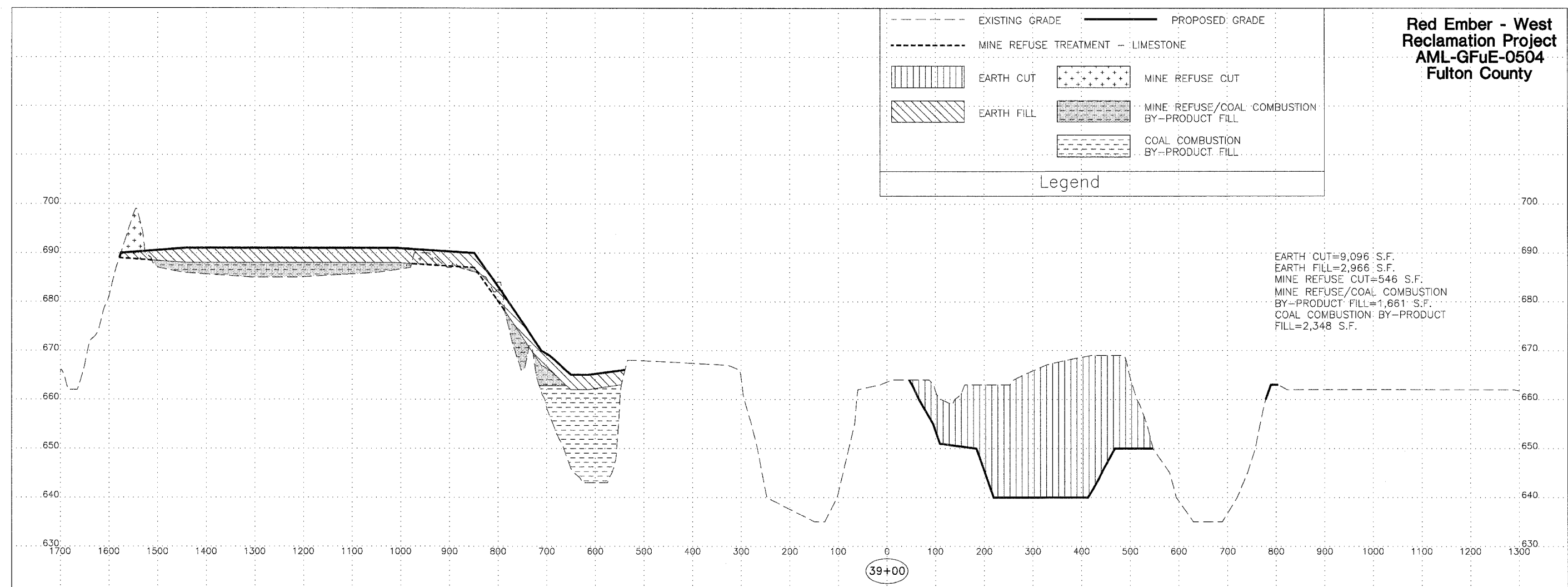
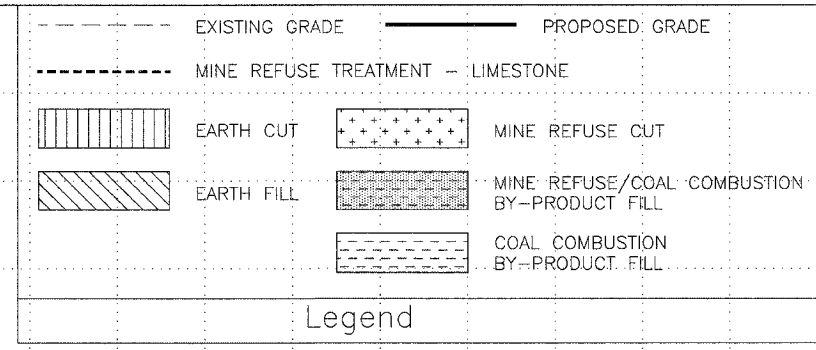


EARTH CUT=14,971 S.F.  
EARTH FILL=3,198 S.F.  
MINE REFUSE CUT=1,157 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=2,176 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=1,963 S.F.

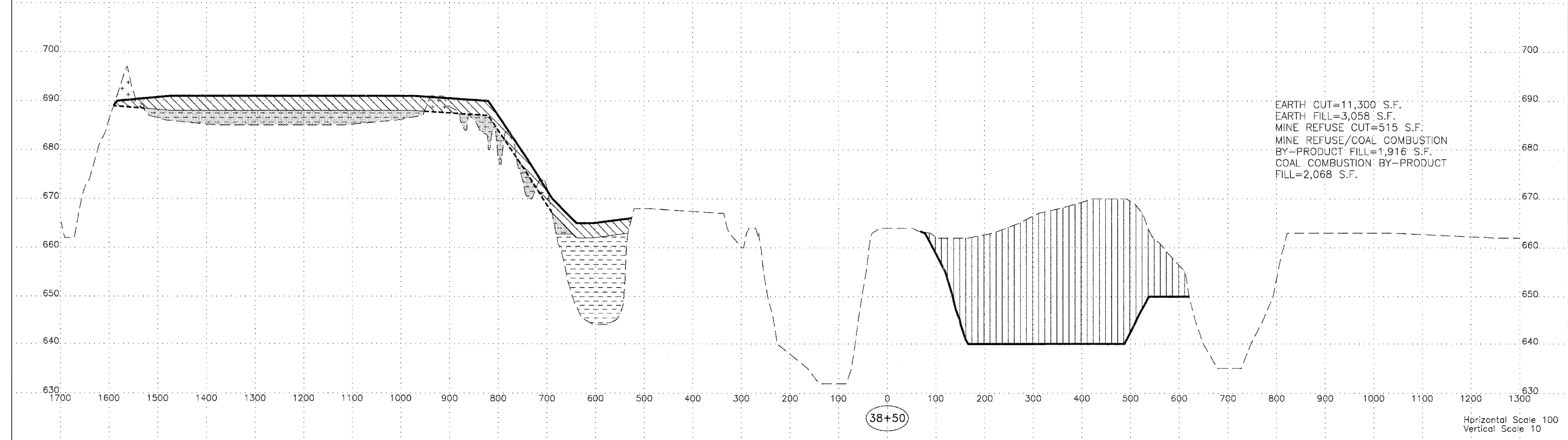


Horizontal Scale 100  
Vertical Scale 10

**Red Ember - West  
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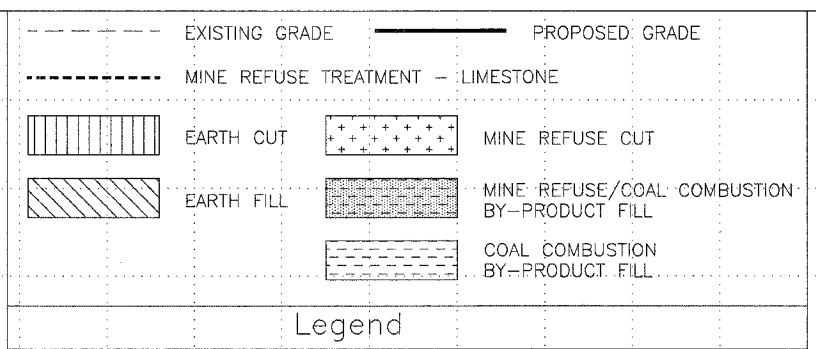
EARTH CUT=9,096 S.F.  
 EARTH FILL=2,966 S.F.  
 MINE REFUSE CUT=546 S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=1,661 S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=2,348 S.F.



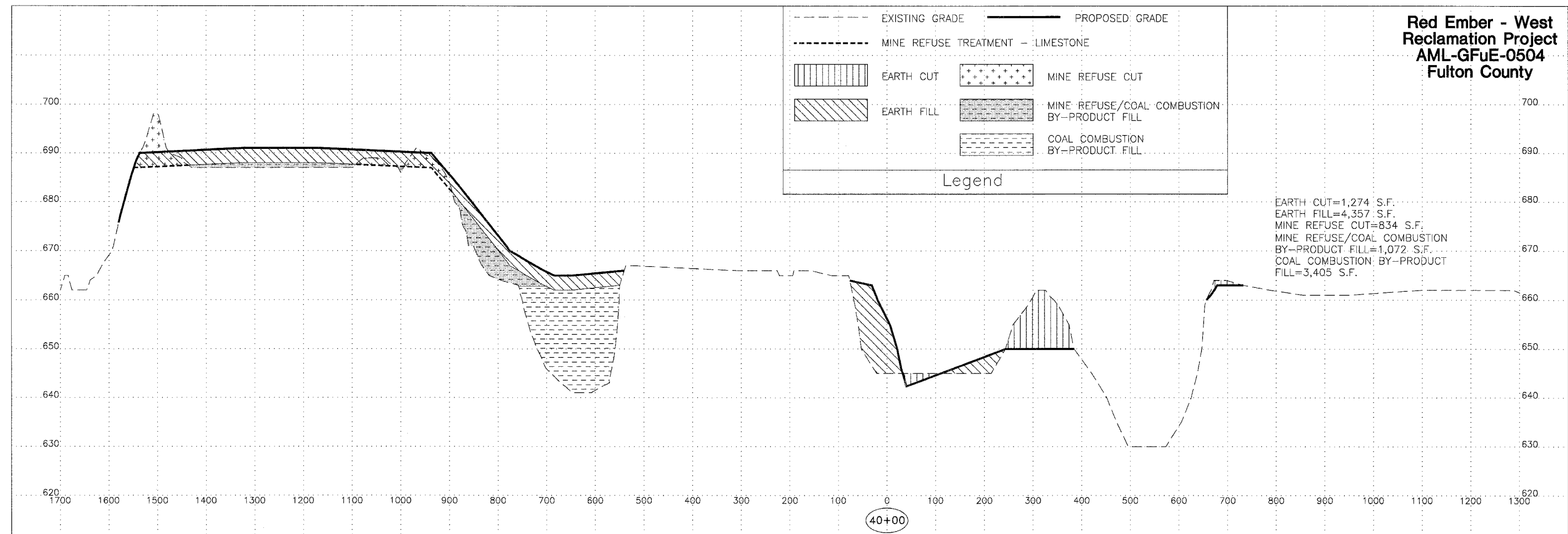
EARTH CUT=11,300 S.F.  
 EARTH FILL=3,058 S.F.  
 MINE REFUSE CUT=515 S.F.  
 MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=1,916 S.F.  
 COAL COMBUSTION BY-PRODUCT FILL=2,068 S.F.

Horizontal Scale 100  
 Vertical Scale 10

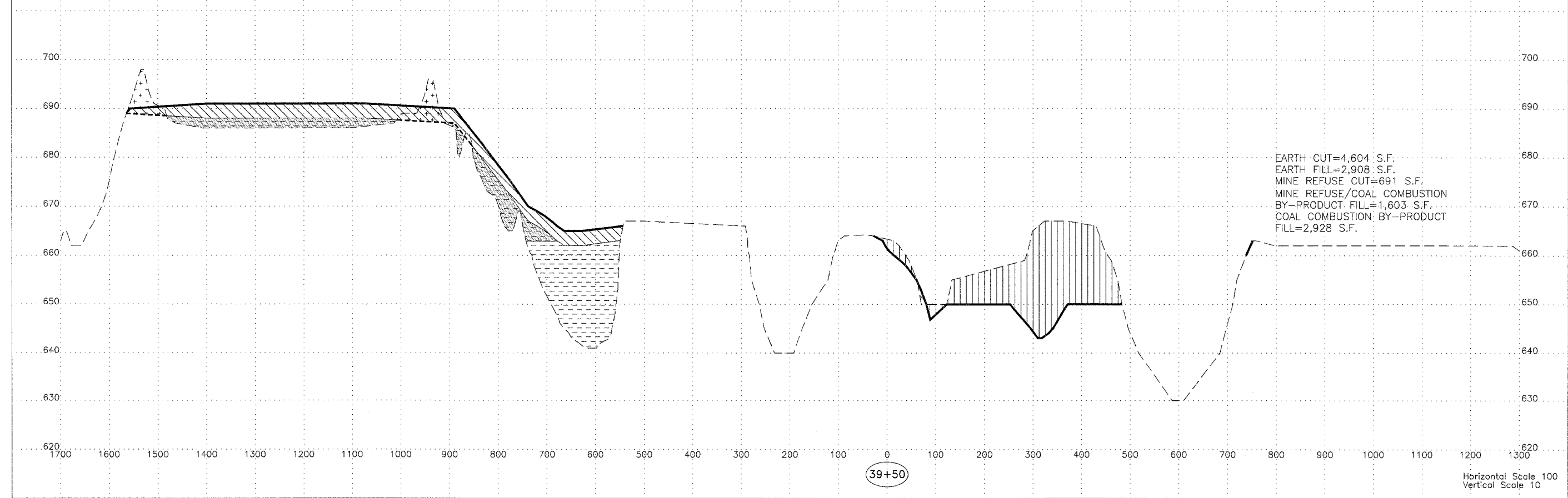
**Red Ember - West  
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EARTH CUT=1,274 S.F.  
EARTH FILL=4,357 S.F.  
MINE REFUSE CUT=834 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=1,072 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=3,405 S.F.



EARTH CUT=4,604 S.F.  
EARTH FILL=2,908 S.F.  
MINE REFUSE CUT=691 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=1,803 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=2,928 S.F.



Horizontal Scale 100  
Vertical Scale 10

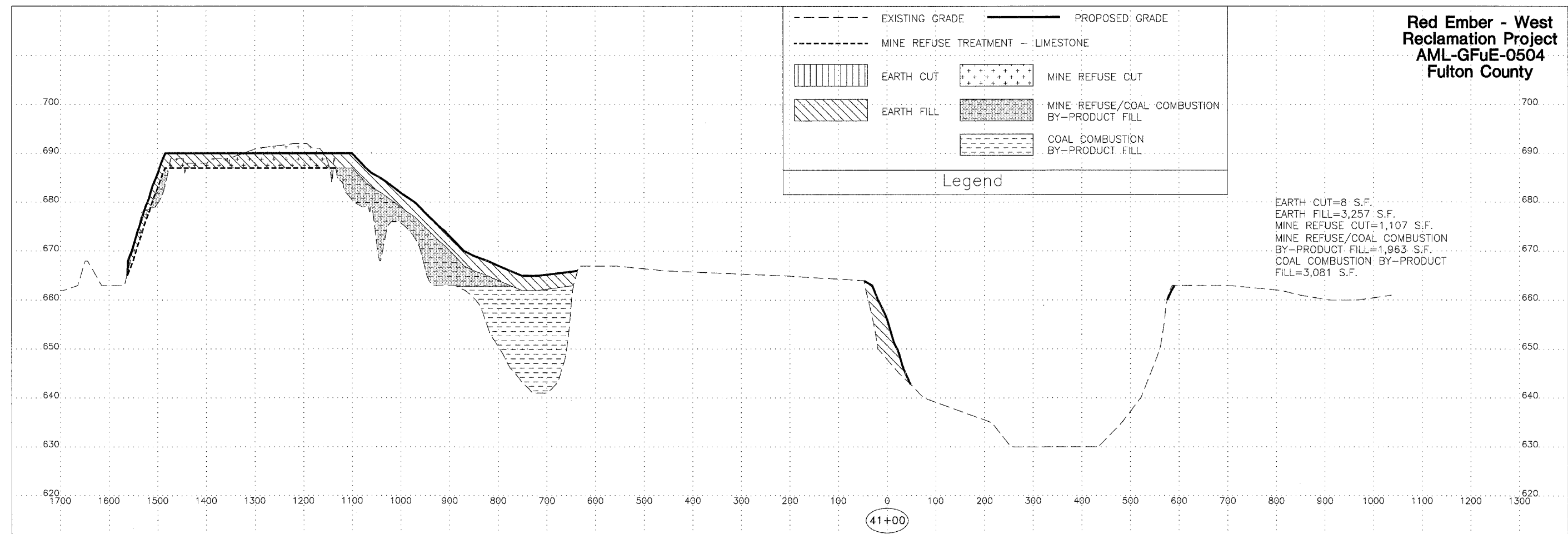


**Red Ember - West  
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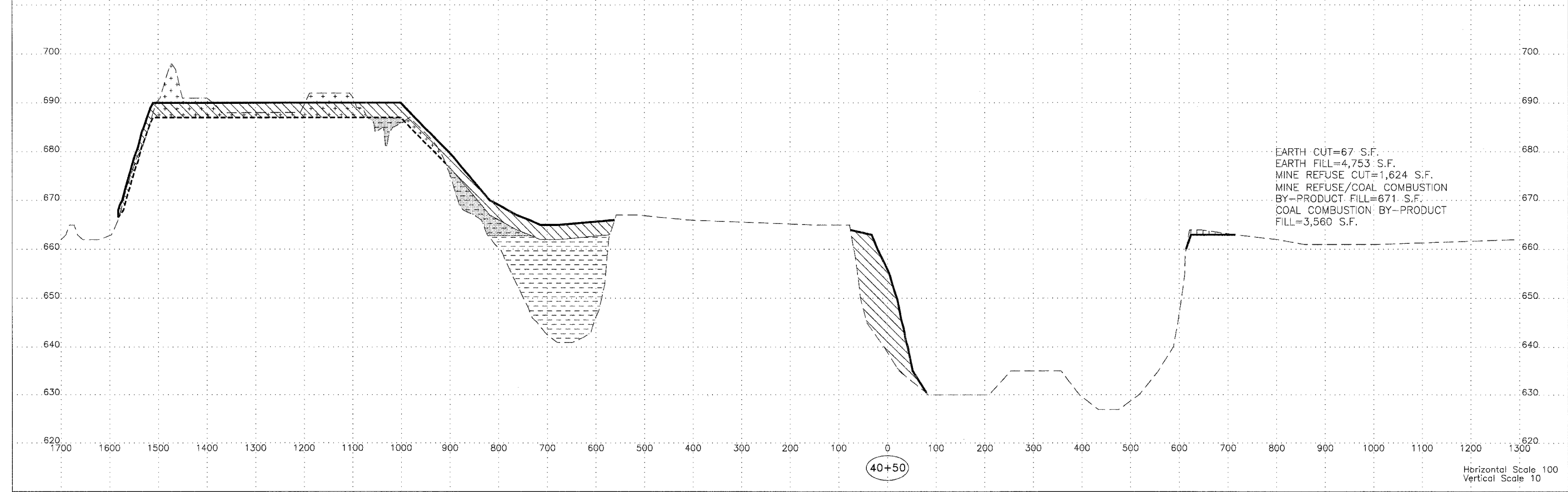
|       |                                   |           |   |
|-------|-----------------------------------|-----------|---|
| ---   | EXISTING GRADE                    | —         | PROPOSED GRADE                              |
| - - - | MINE REFUSE TREATMENT - LIMESTONE |           |   |
|       | EARTH CUT                         | + + + + + | MINE REFUSE CUT                             |
| ////  | EARTH FILL                        | ■         | MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL |
|       |                                   | ---       | COAL COMBUSTION BY-PRODUCT FILL             |

Legend

EARTH CUT=8 S.F.  
EARTH FILL=3,257 S.F.  
MINE REFUSE CUT=1,107 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=1,963 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=3,081 S.F.

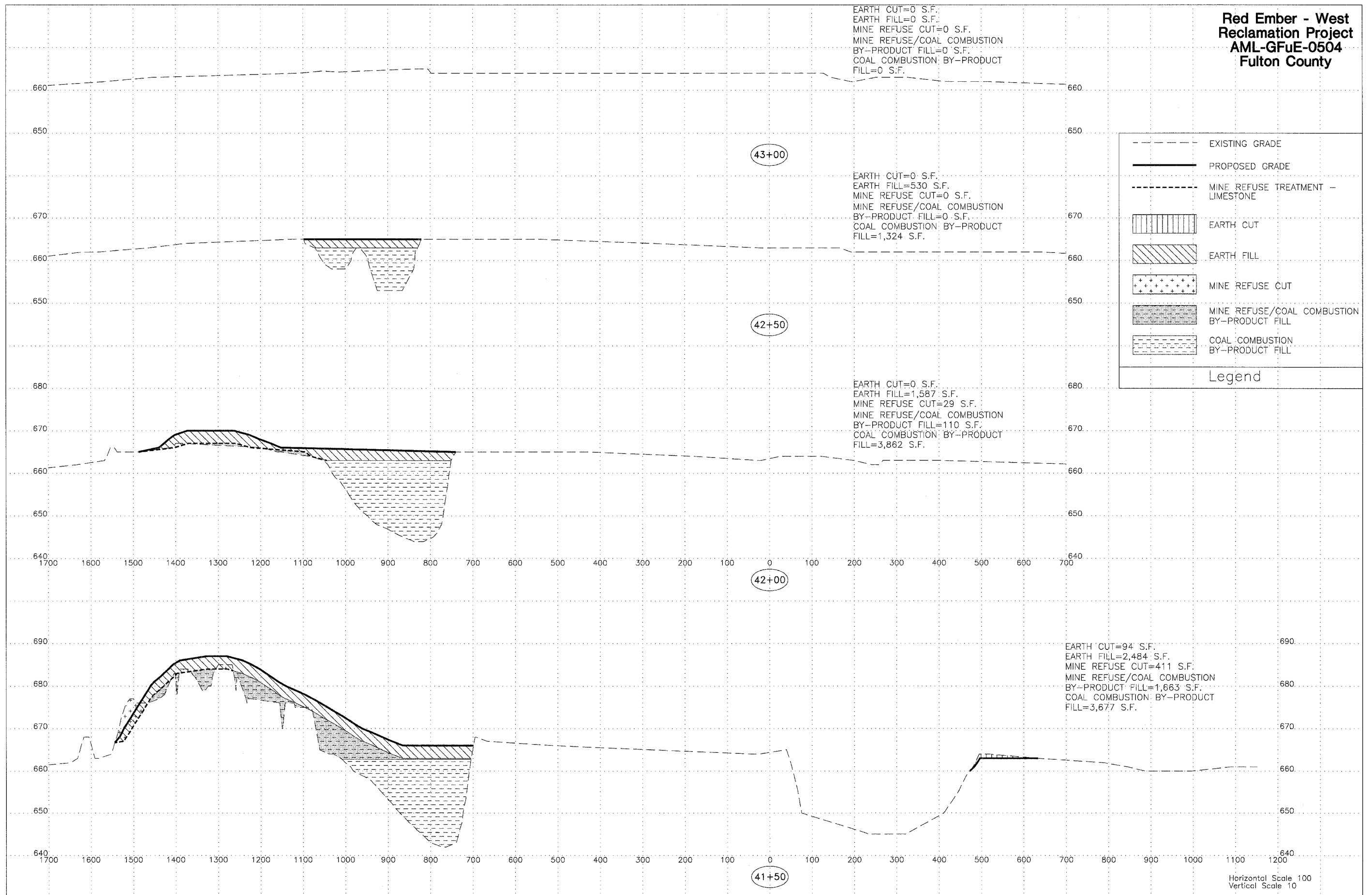


EARTH CUT=67 S.F.  
EARTH FILL=4,753 S.F.  
MINE REFUSE CUT=1,624 S.F.  
MINE REFUSE/COAL COMBUSTION BY-PRODUCT FILL=671 S.F.  
COAL COMBUSTION BY-PRODUCT FILL=3,560 S.F.

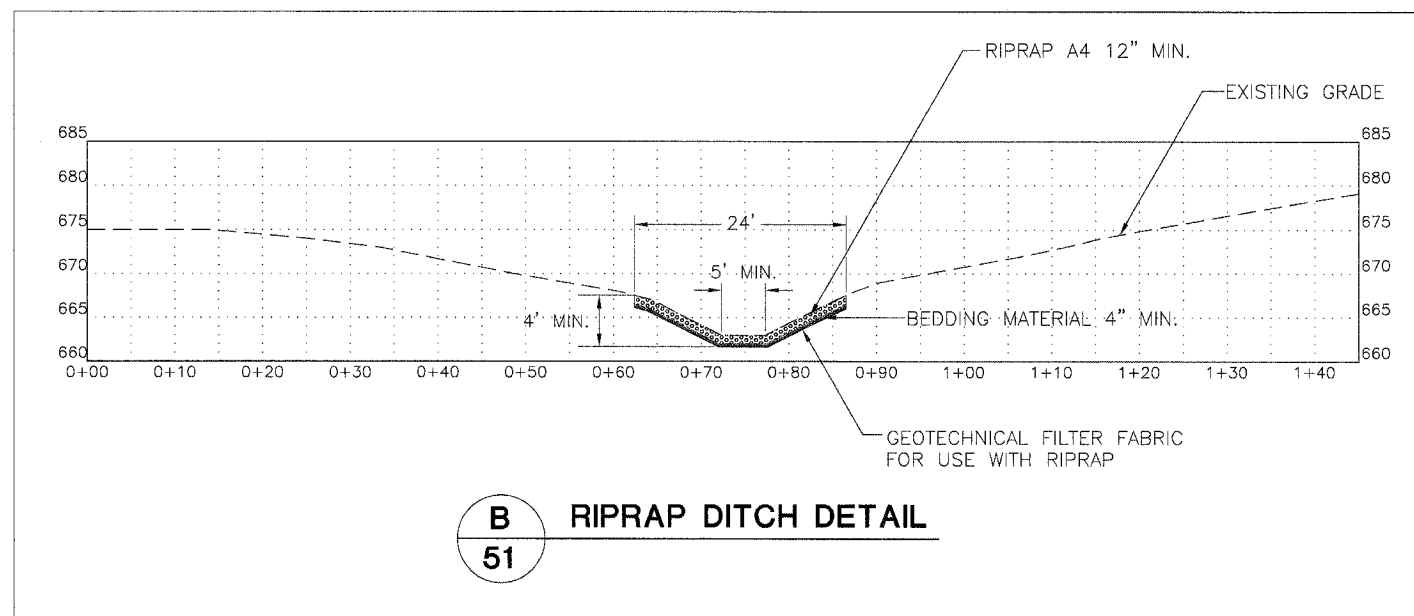
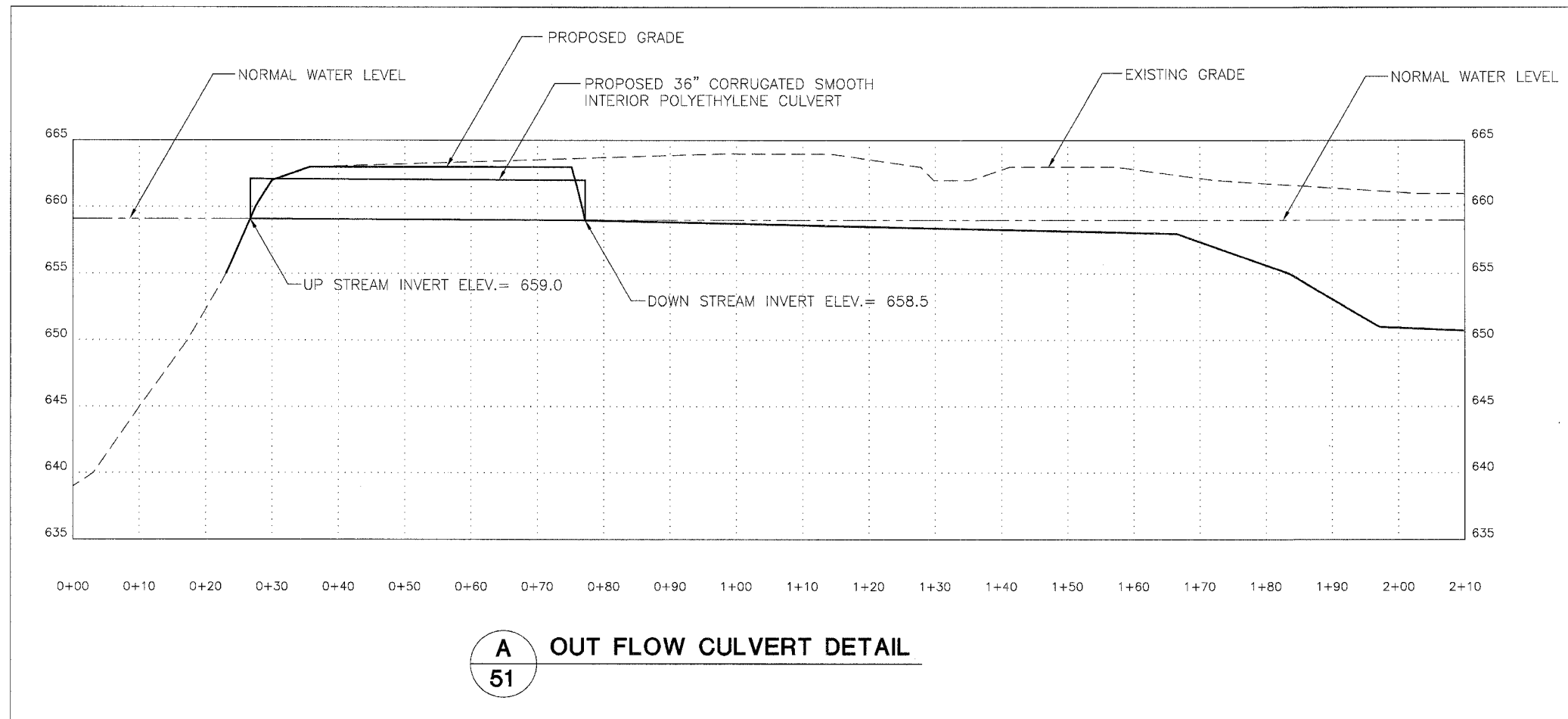


Horizontal Scale 100  
Vertical Scale 10

**Red Ember - West  
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Fulton County**



Horizontal Scale 100  
Vertical Scale 10



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

RECLAMATION PROJECT  
of the  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF ILLINOIS

ROD BLAGOJEVICH, GOVERNOR

Sam Flood, Acting Director  
Department of Natural Resources

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

- Furnishing, erecting and removing the sign shall be incidental to the contract.
- The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
- 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).
- 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.

**C** CONSTRUCTION SIGN DETAIL  
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