

**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


**Peabody Seminole/Midwest C.C.**  
**Reclamation Project**  
**AML-GScE-0509**  
**St. Clair County**  
**1LR**


**SCHEDULE OF DRAWINGS:**

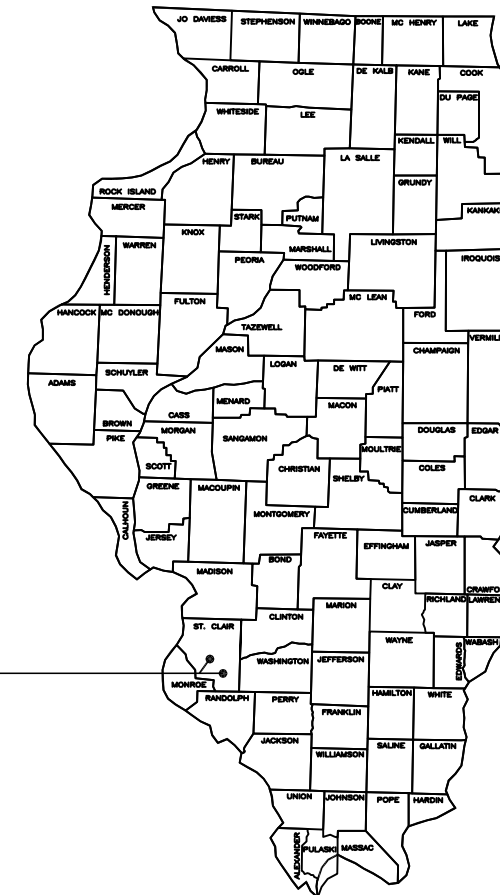
1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Midwest C.C. - Plan Sheet and Details
4. Peabody Seminole - Site Layout
- 5-13. Peabody Seminole - Plan Sheets
- 14-49. Peabody Seminole - Cross Sections
50. Peabody Seminole - Details

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



Peabody Seminole/Midwest C.C.  
 St. Clair County

**NOTE:**

Pre-Bid Meeting for this project will be held on Wednesday, March 2nd,  
 at 10:00 A.M., at the East Dutch School Road entrance to the Peabody  
 Seminole Site.

**Certified Copy**

Summary of Quantities

#	Item	Section	Quantities			Unit	Rates/Remarks
			Seminole	Midwest	Total		
1	Special Clearing	201	0.9	0.1	1	L.S.	
2	Earth Excavation	202	391,709	2,593	394,302	C.Y.	Compaction per Section 205
3	Mine Refuse Excavation	202	105,239	1,580	106,819	C.Y.	Compaction per Section 205
4	Trench Backfill	208	24.8	-	24.8	C.Y.	
5	Seeding, Class 6, Conservation Mix	250	106.0	0.7	106.7	Acre	
6	Nitrogen Fertilizer Nutrient	250	25,440	168	25,608	Pound	120 lbs./Acre
7	Phosphorous Fertilizer Nutrient	250	21,200	140	21,340	Pound	100 lbs./Acre
8	Potassium Fertilizer Nutrient	250	63,600	420	64,020	Pound	350 lbs./Acre
9	Agricultural Ground Limestone	250	212	1.4	213.4	Ton	2 Tons/Acre
10	Mowing	258	106.0	0.7	106.7	Acre	
11	Mulch, Method 2, Procedure 1	IDOT 251	106.0	0.4	106.4	Acre	2 Tons/Acre
12	Mine Refuse Treatment - Limestone	255	1200	14	1,214	Ton	20 Tons/Acre
13	Perimeter Erosion Barrier	IDOT 280	517	-	517	Foot	
14	Stone Riprap, Class A, RR3	IDOT 281	4,126	-	4,126	S.Y.	
15	Stone Riprap, Class A, RR4	IDOT 281	3,213	-	3,213	S.Y.	
16	Filter Fabric	IDOT 282	3,213	-	3,213	S.Y.	
17	Special Excelsior Blanket	286	3,172	1,452	4,624	S.Y.	
18	Aggregate Surface Course, Type B	IDOT 402	661.5	-	661.5	Ton	
19	Removal of Existing Structures	501	1	-	1	L.S.	
20	Pipe Culverts, RCCP, Type 1, 15" Dia.	IDOT 542	32	-	32	Foot	
21	Precast Reinforced Concrete Flared End Sections - 15" Dia.	IDOT 542	2	-	2	Each	
22	Pipe Culverts, RCCP, Type 1, 36" Dia.	IDOT 542	126	-	126	Foot	
23	Precast Reinforced Concrete Flared End Sections - 36" Dia.	IDOT 542	6	-	6	Each	
24	Dewatering Impoundment 1	614	1	-	1	Each	
25	Dewatering Impoundment 2	614	1	-	1	Each	
26	Dewatering Impoundment 3	614	1	-	1	Each	
27	Mobilization (Maximum 6% of Bid)	671	0.9	0.1	1	L.S.	
28	Traffic Control and Protection - Type III Barricade	701	1	-	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.

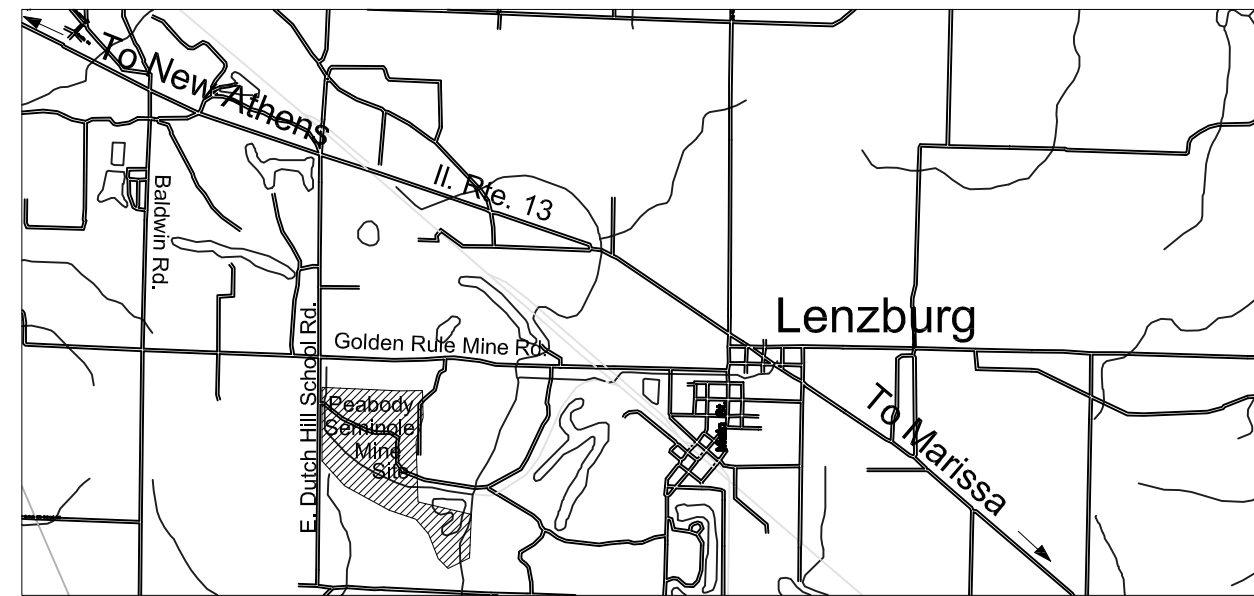
**ACID WATER TREATMENT**-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

**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.

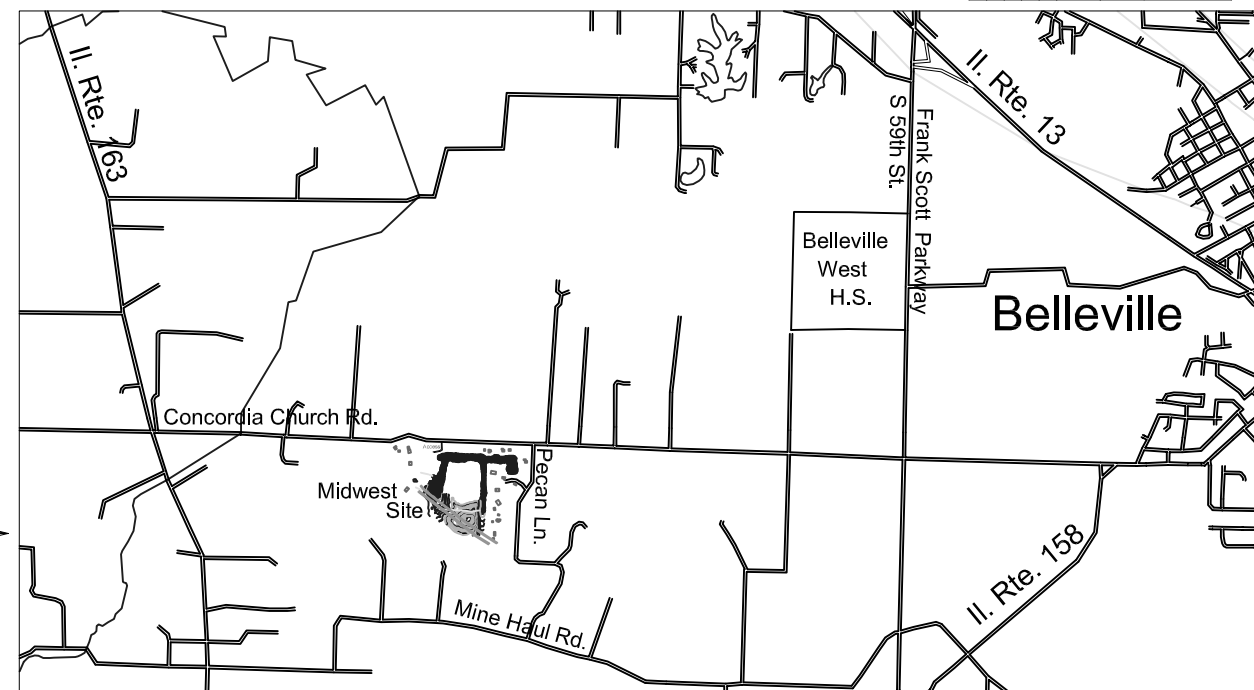
**AGRICULTURAL GROUND LIMESTONE**-Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

**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 36 inches of soil.



Peabody Seminole Mine - Location Map



Midwest Mine - Location Map

Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

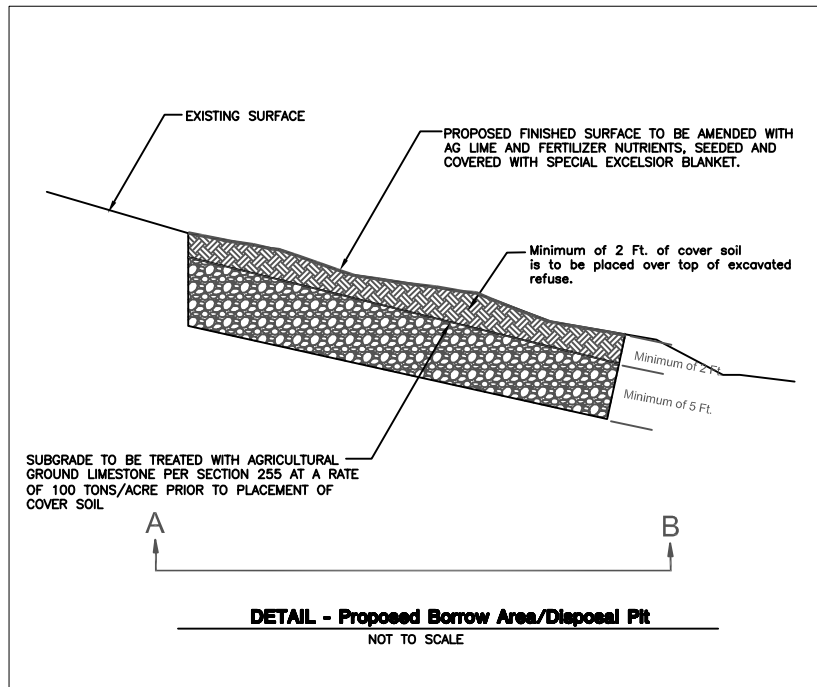
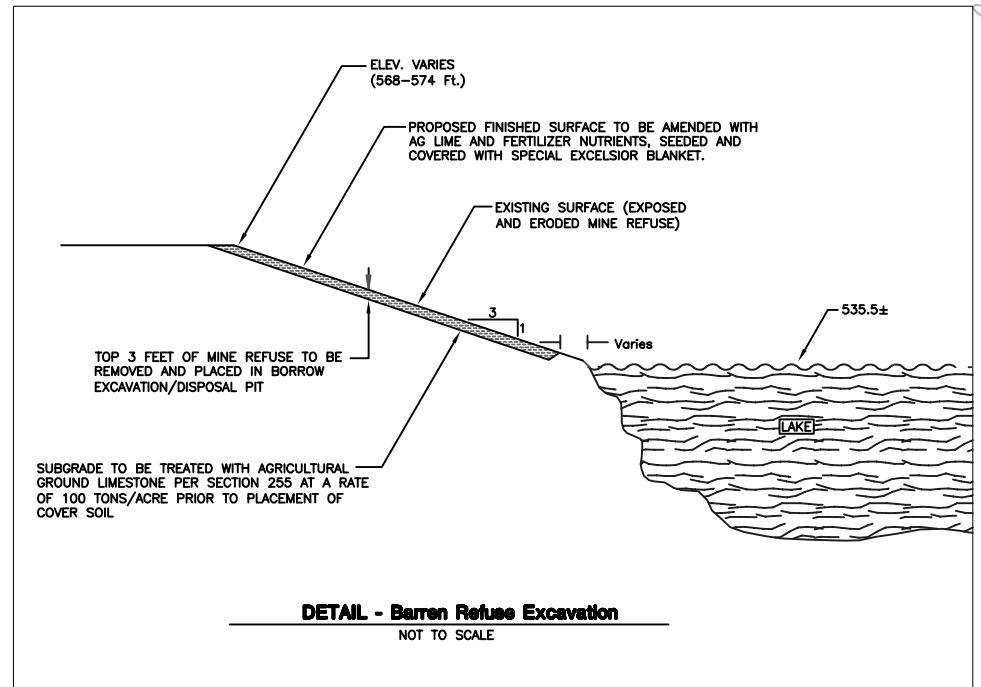
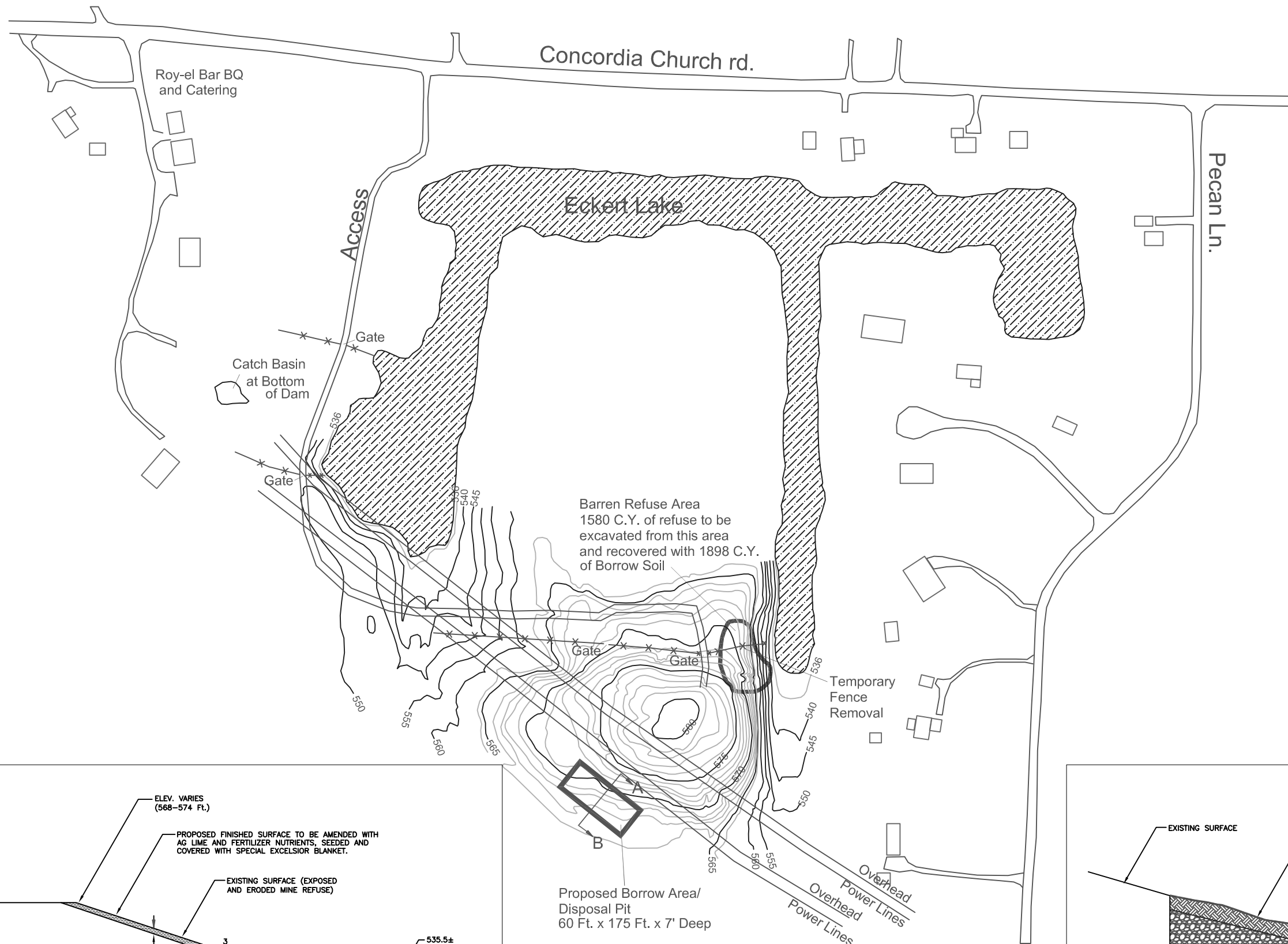
ITEM (unit)	Aug. 20, 2011 thru Sept. 30, 2011	March 15, 2012 thru April 10, 2012	May 15, 2012 thru June 15, 2012	TOTAL QUANTITY
SEEDING (acres)	106.7 (Acres)			106.7 (Acres)
AGRICULTURAL GROUND LIMESTONE (tons)	213.4 (2 T/acre)			213.4 (2 T/acre)
NITROGEN FERTILIZER NUTRIENT (pounds)	12,804 (120 Pounds/Acre)	12,804 (120 Pounds/Acre)		25,608 (Pounds)
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	10,670 (100 Pounds/Acre)	10,670 (100 Pounds/Acre)		21,340 (Pounds)
POTASSIUM FERTILIZER NUTRIENT (pounds)	37,345 (350 Pounds/Acre)	26675 (250 Pounds/Acre)		64,020 (Pounds)
MULCH, METHOD 2 PROCEDURE 1 (acres)	106.4 (acres)			106.4 (acres)
MOWING (acres)			106.7 (acres)	106.7 (acres)

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Summary of Quantities/  
General Notes/Location Map  
Sheet  
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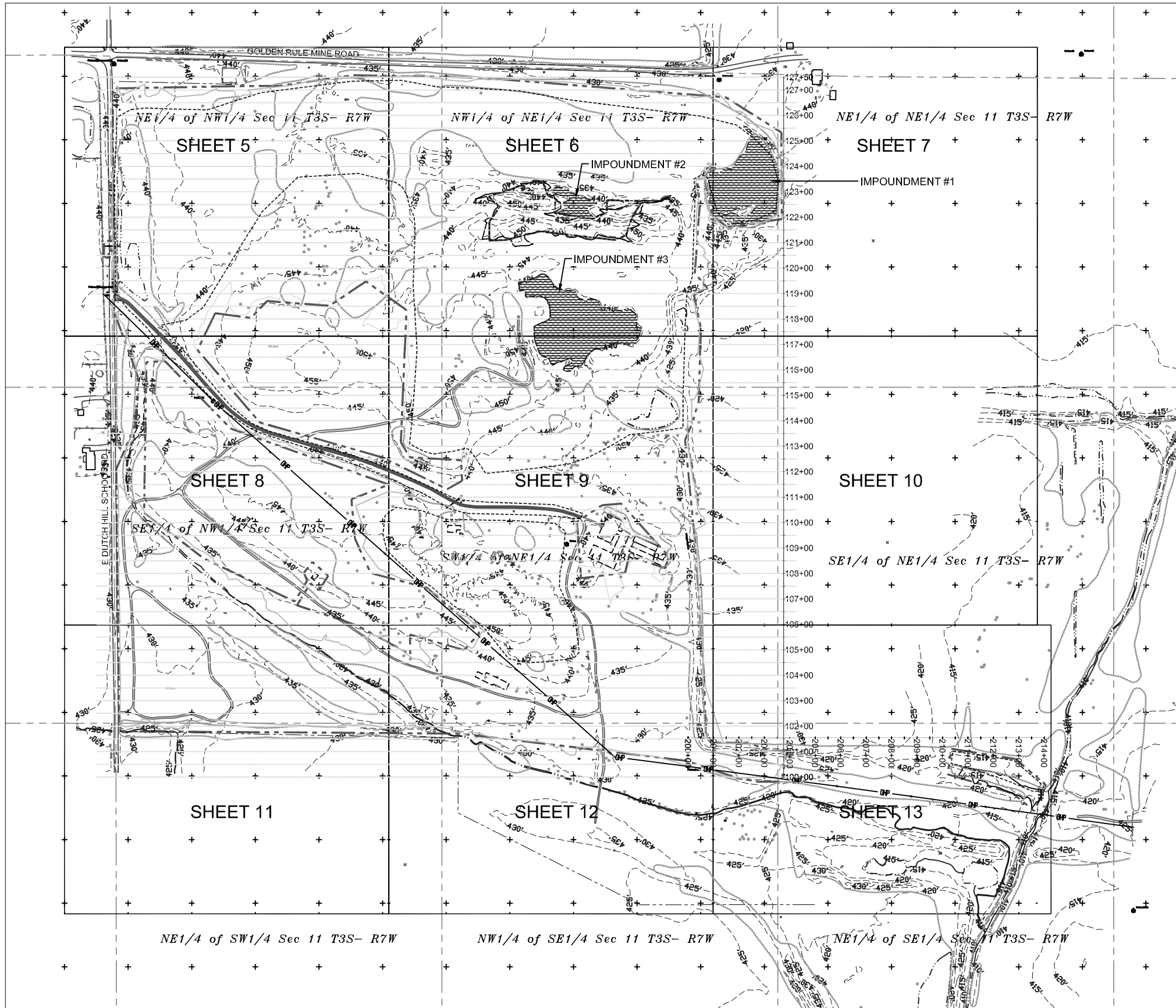


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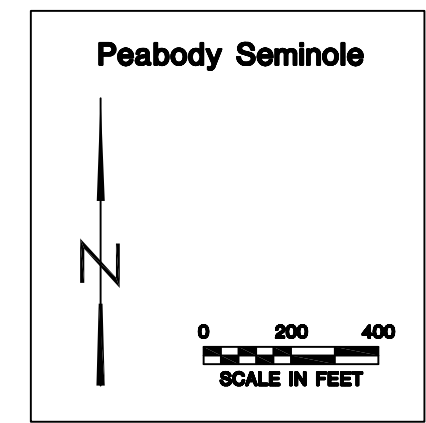
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Midwest Mine  
Plan Sheet  
Sheet  
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	400	EXISTING CONTOUR
		CONSTRUCTION LIMITS
		EDGE OF ROAD
		TREELINE
		EDGE OF WATER
		APPROXIMATE MINE REFUSE TREATMENT LIMITS

Legend

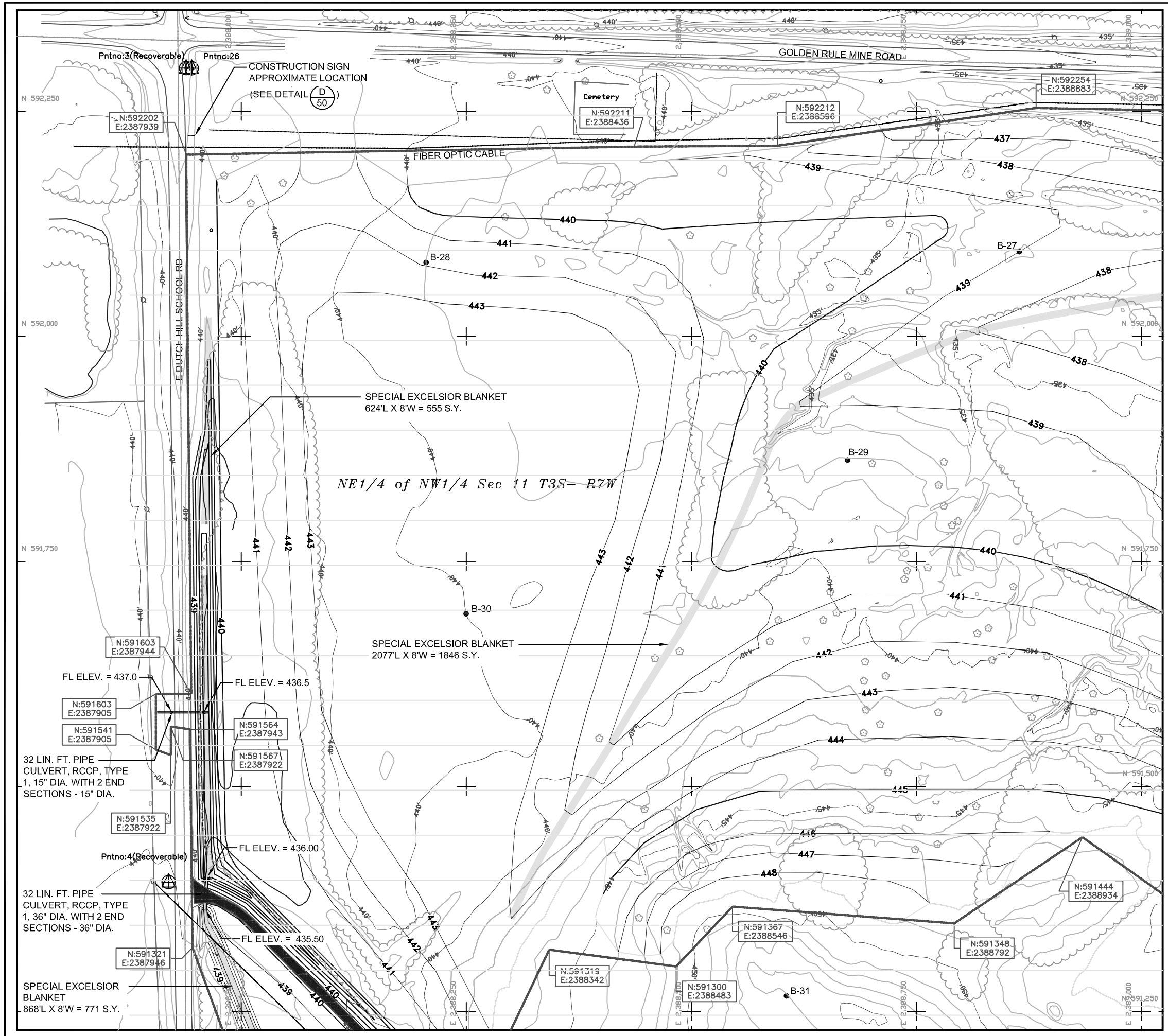


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Site Layout  
Sheet  
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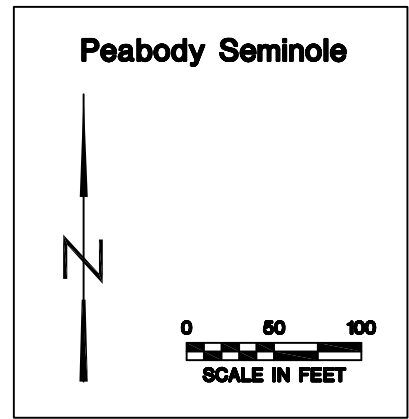


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Sheet Layout

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	BORING

Legend



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Peabody Seminole/Midwest C.C.  
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Existing & Proposed  
Conditions  
Sheet  
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	NORTHING	EASTING
A	591606	2389913
B	591640	2389614
C	591606	2389485
D	591604	2389419
E	591679	2389420
F	591737	2389461
G	591777	2389416
H	591831	2389582
I	591831	2389631
J	591781	2389649
K	591768	2389679
L	591713	2389677
M	591689	2389826
N	591715	2389882
O	591763	2389882
P	591760	2390021
Q	591701	2389983
R	591623	2389954

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Sheet Layout

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	BORING

Legend

**Peabody Seminole**

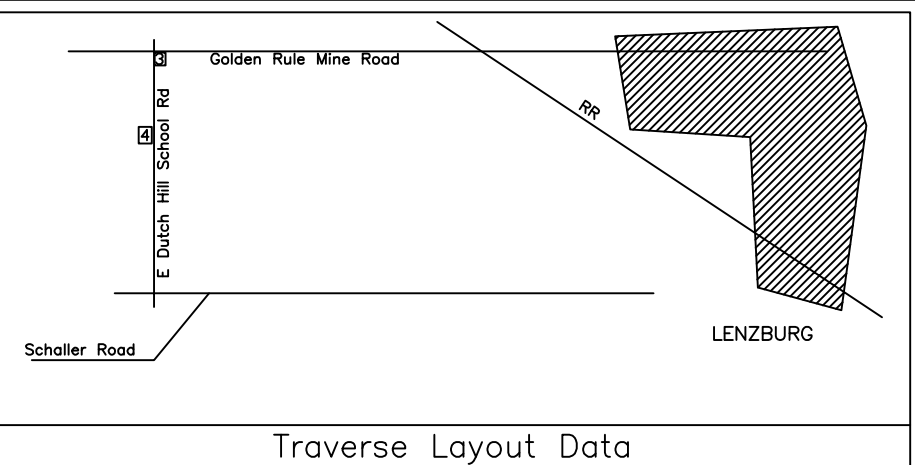
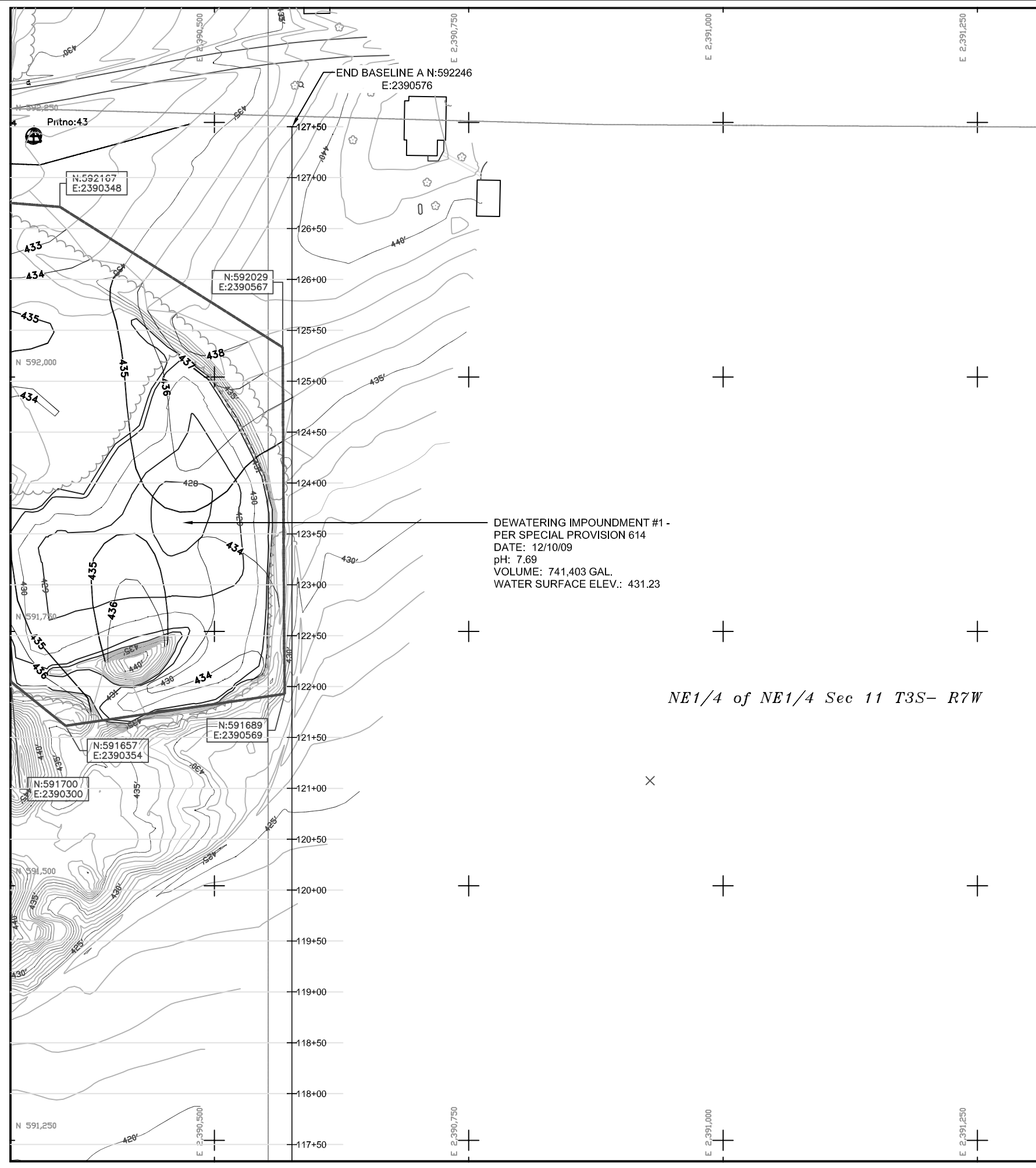
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**St. Clair County**

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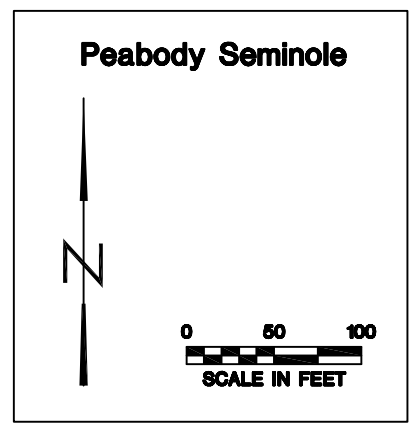
**Existing & Proposed**  
**Conditions**  
**Sheet**  
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Sheet Layout

- 400 EXISTING CONTOUR
  - 400 PROPOSED CONTOUR
  - CONSTRUCTION LIMITS
  - EDGE OF ROAD
  - TREELINE
  - EDGE OF WATER
  - SURVEY CONTROL POINT
  - BORING
- Legend

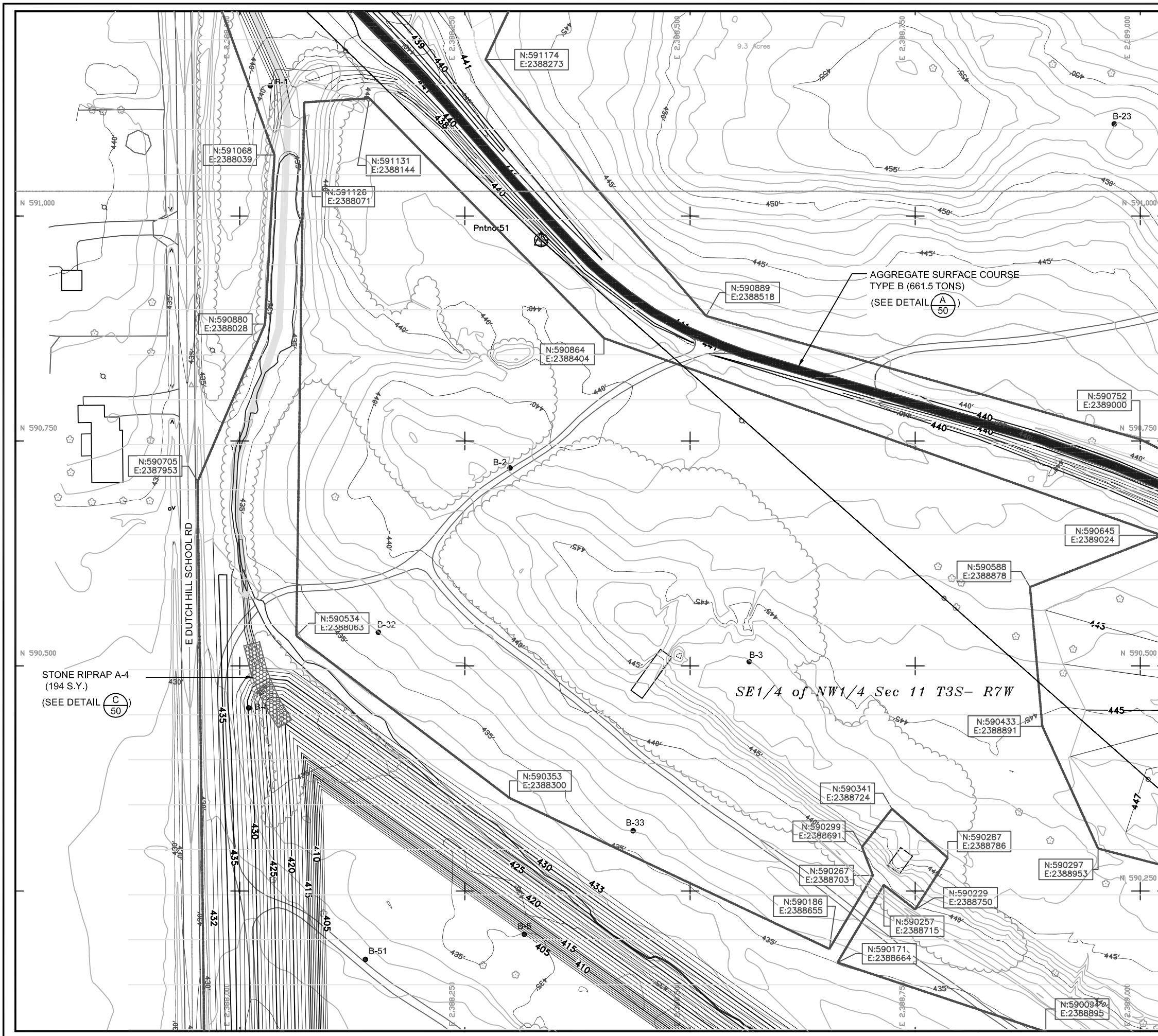


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Existing & Proposed  
Conditions  
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Sheet Layout

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	BORING

Legend

**Peabody Seminole**

SCALE IN FEET

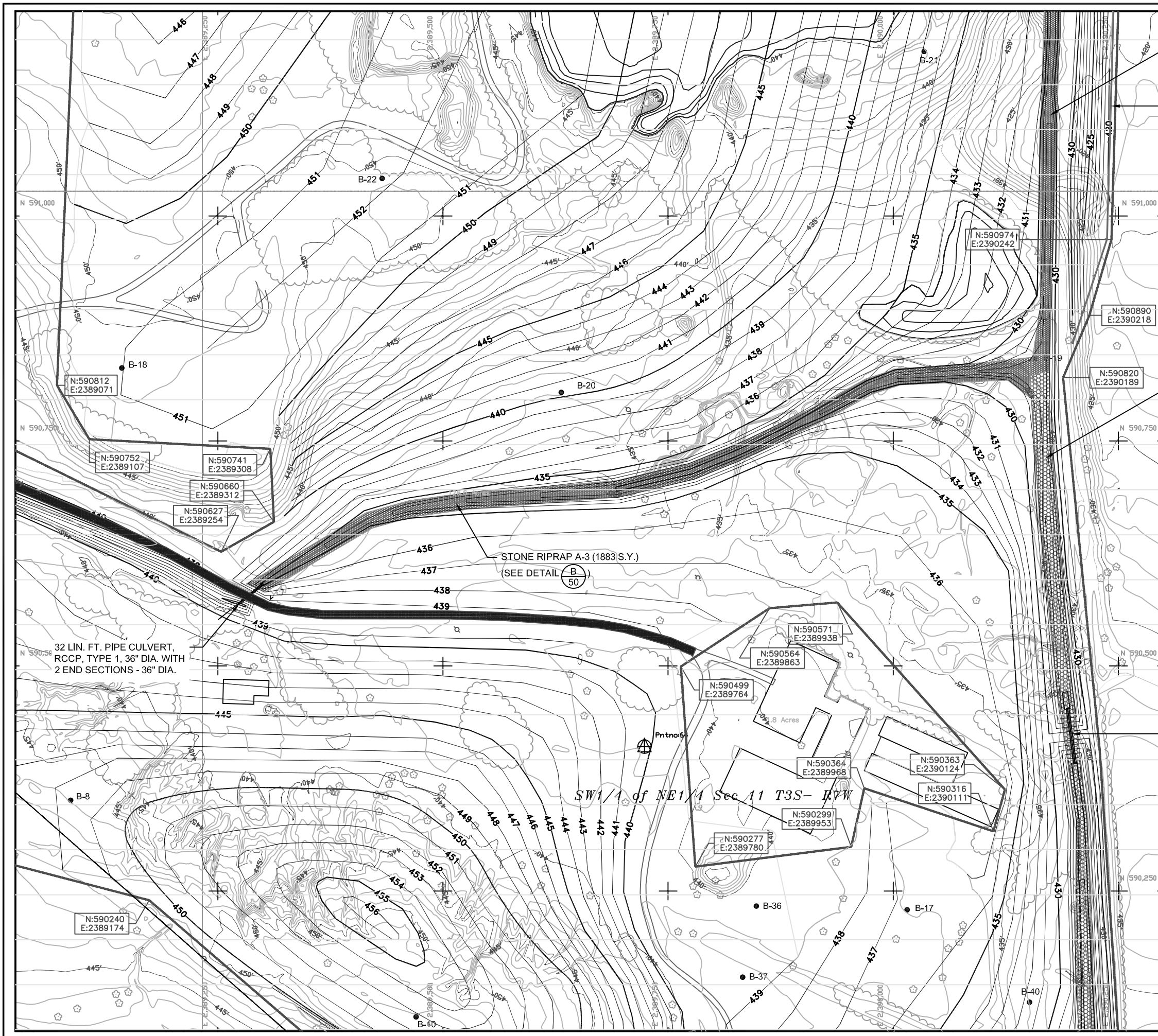
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Date: 2/7/2011

**Existing & Proposed  
Conditions**  
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STONE RIPRAP A-3 (2243 S.Y.)  
(SEE DETAIL (B) 50)

PERIMETER EROSION BARRIER (517 FEET)

5	6	7
8	9	10
11	12	13

Sheet Layout

STONE RIPRAP A-4 (2588 S.Y.)  
(SEE DETAIL (C) 50)

400	EXISTING CONTOUR
400	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	BORING

Legend

62 LIN. FT. PIPE CULVERT,  
RCCP, TYPE 1, 36\"/>

**Peabody Seminole**

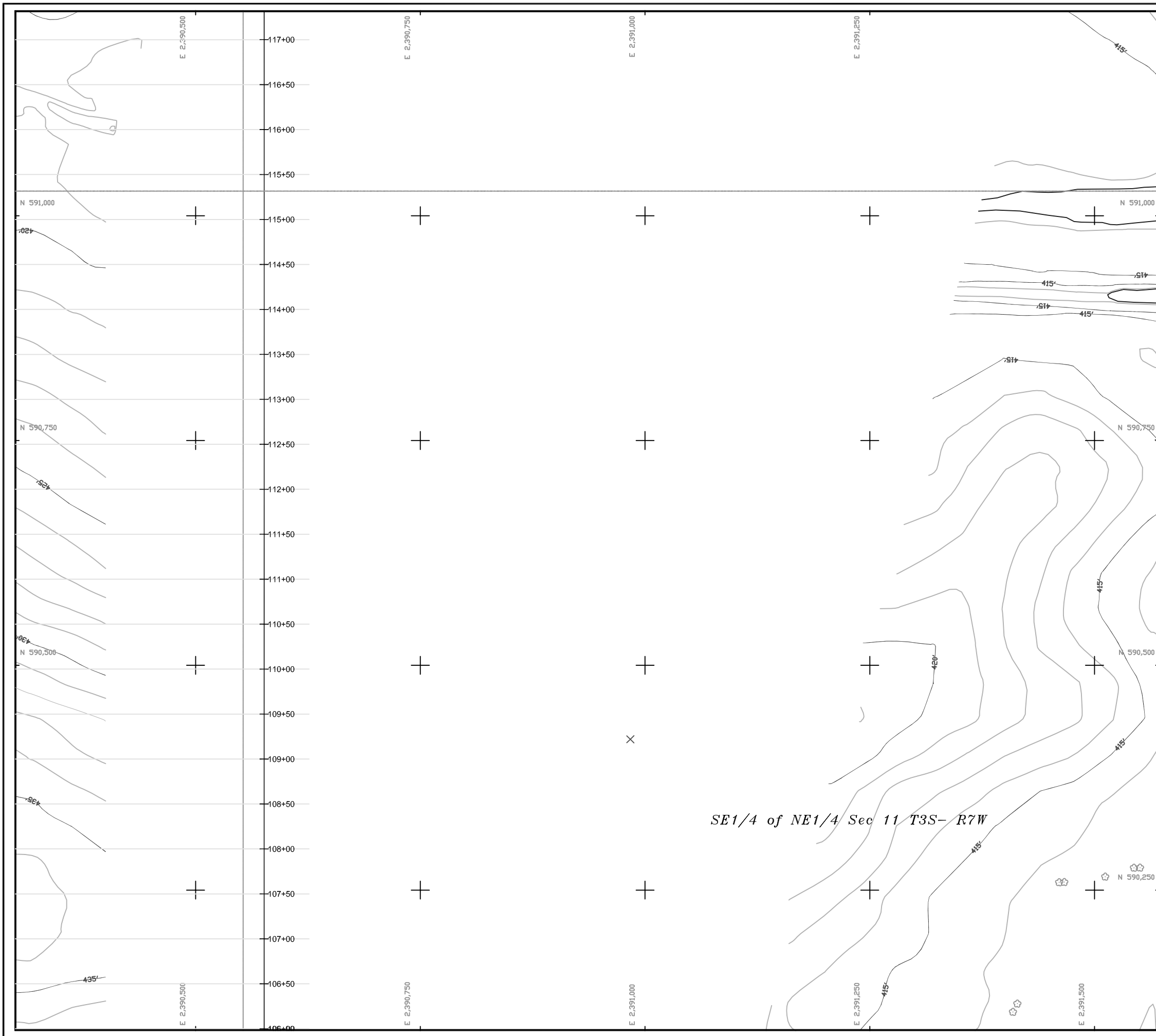
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**St. Clair County**

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**Existing & Proposed**  
**Conditions**  
**Sheet**  
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SE1/4 of NE1/4 Sec 11 T3S- R7W

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11	12	13

Sheet Layout

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	BORING

Legend

**Peabody Seminole**

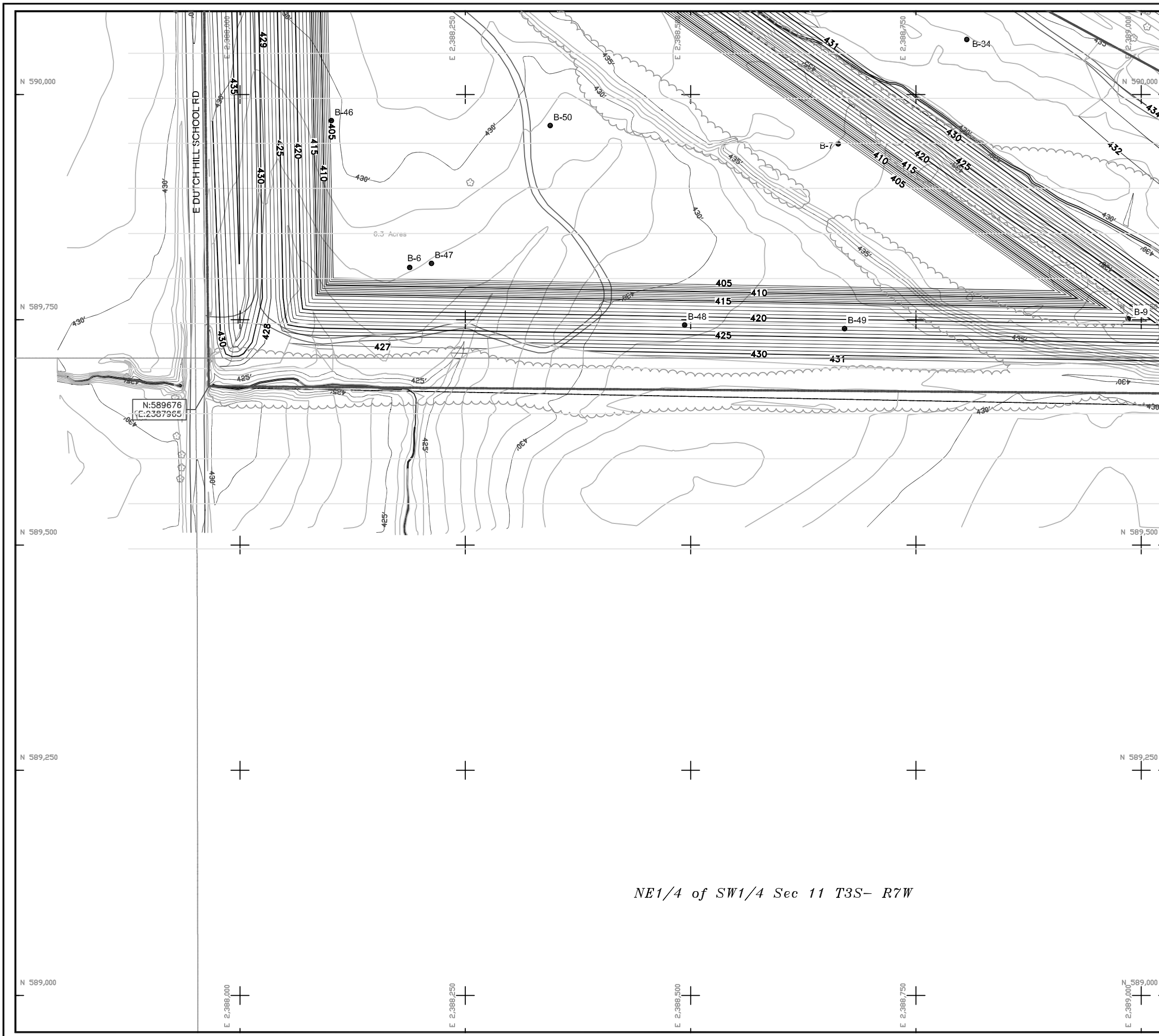
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Peabody Seminole/Midwest C.C.  
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Existing & Proposed  
Conditions  
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NE1/4 of SW1/4 Sec 11 T3S- R7W

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8	9	10
11	12	13

Sheet Layout

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- EDGE OF ROAD
- TREELINE
- EDGE OF WATER
- SURVEY CONTROL POINT
- BORING

Legend

**Peabody Seminole**

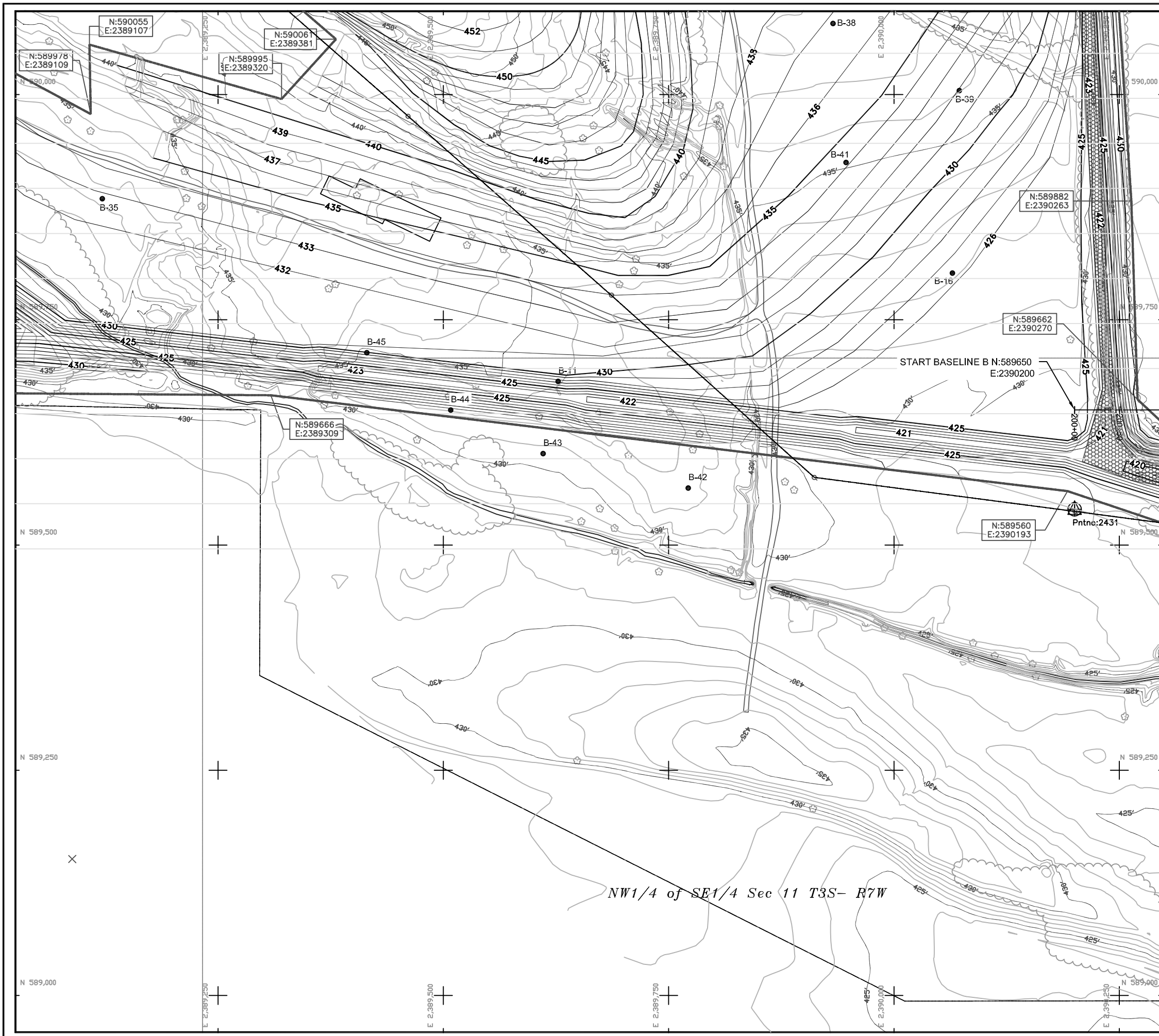


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Checked By: \_\_\_\_\_

Existing & Proposed  
Conditions  
Sheet  
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5	6	7
8	9	10
11	12	13

Sheet Layout

- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - CONSTRUCTION LIMITS
  - EDGE OF ROAD
  - TREELINE
  - EDGE OF WATER
  - SURVEY CONTROL POINT
  - BORING
- Legend

**Peabody Seminole**

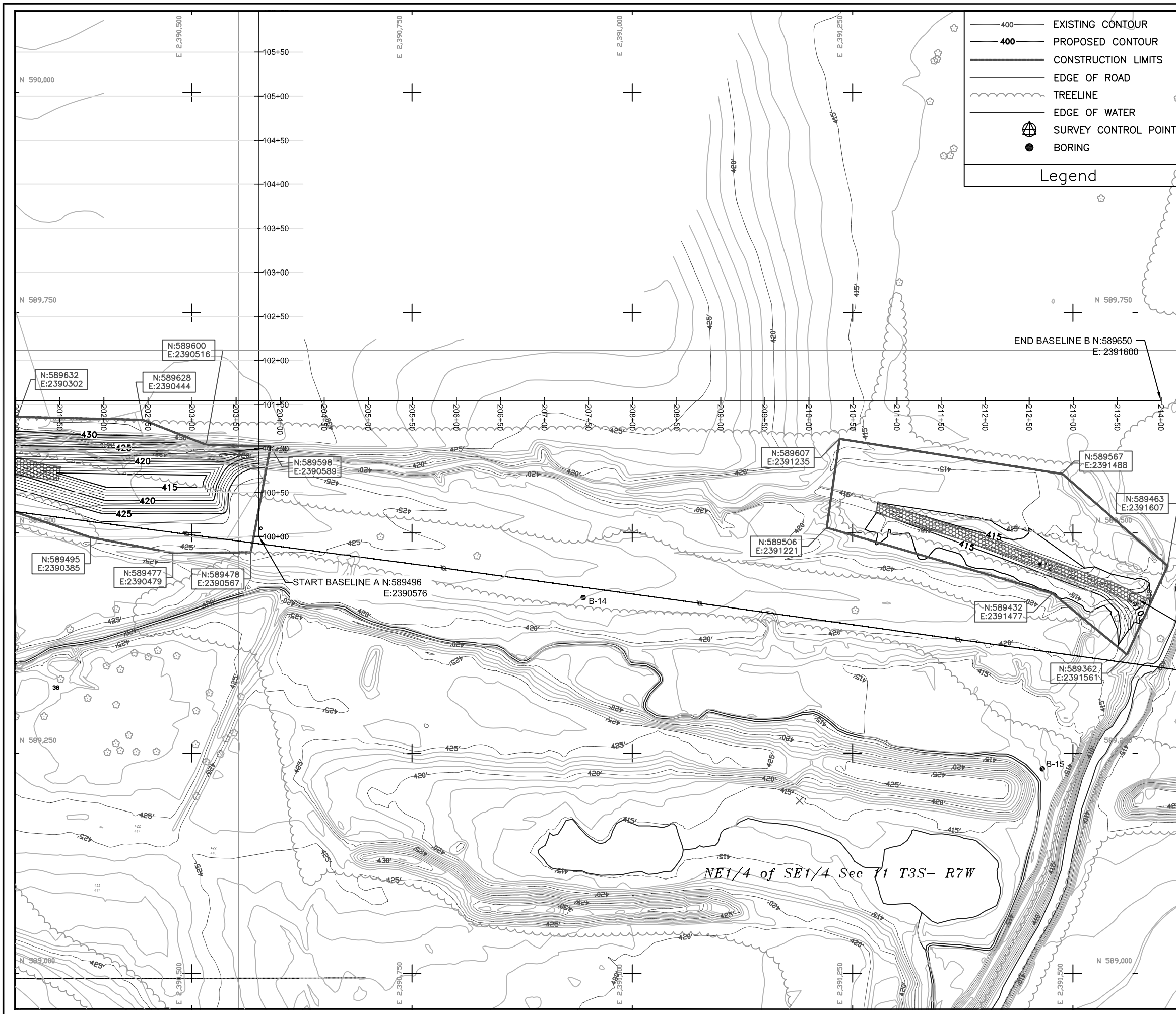
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 V.P., M-LF \_\_\_\_\_  
 Checked By: \_\_\_\_\_

**Existing & Proposed**  
**Conditions**  
**Sheet**  
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— 400 — EXISTING CONTOUR  
 — 400 — PROPOSED CONTOUR  
 ——— CONSTRUCTION LIMITS  
 ——— EDGE OF ROAD  
 ~~~~~ TREELINE  
 ——— EDGE OF WATER  
 SURVEY CONTROL POINT  
 BORING

Legend

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Sheet Layout

**Peabody Seminole**

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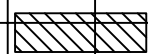
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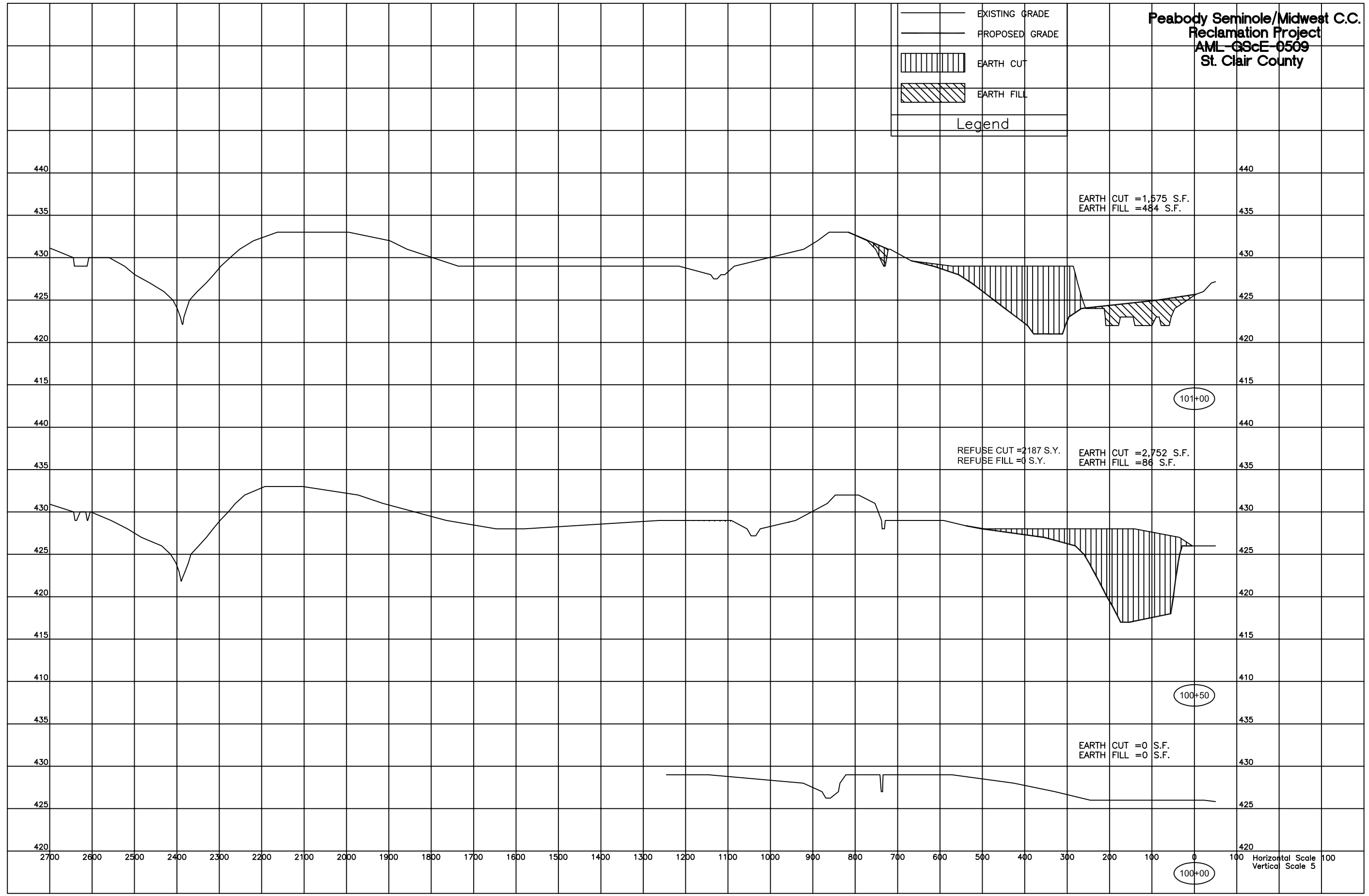
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 V.P., M-LF \_\_\_\_\_  
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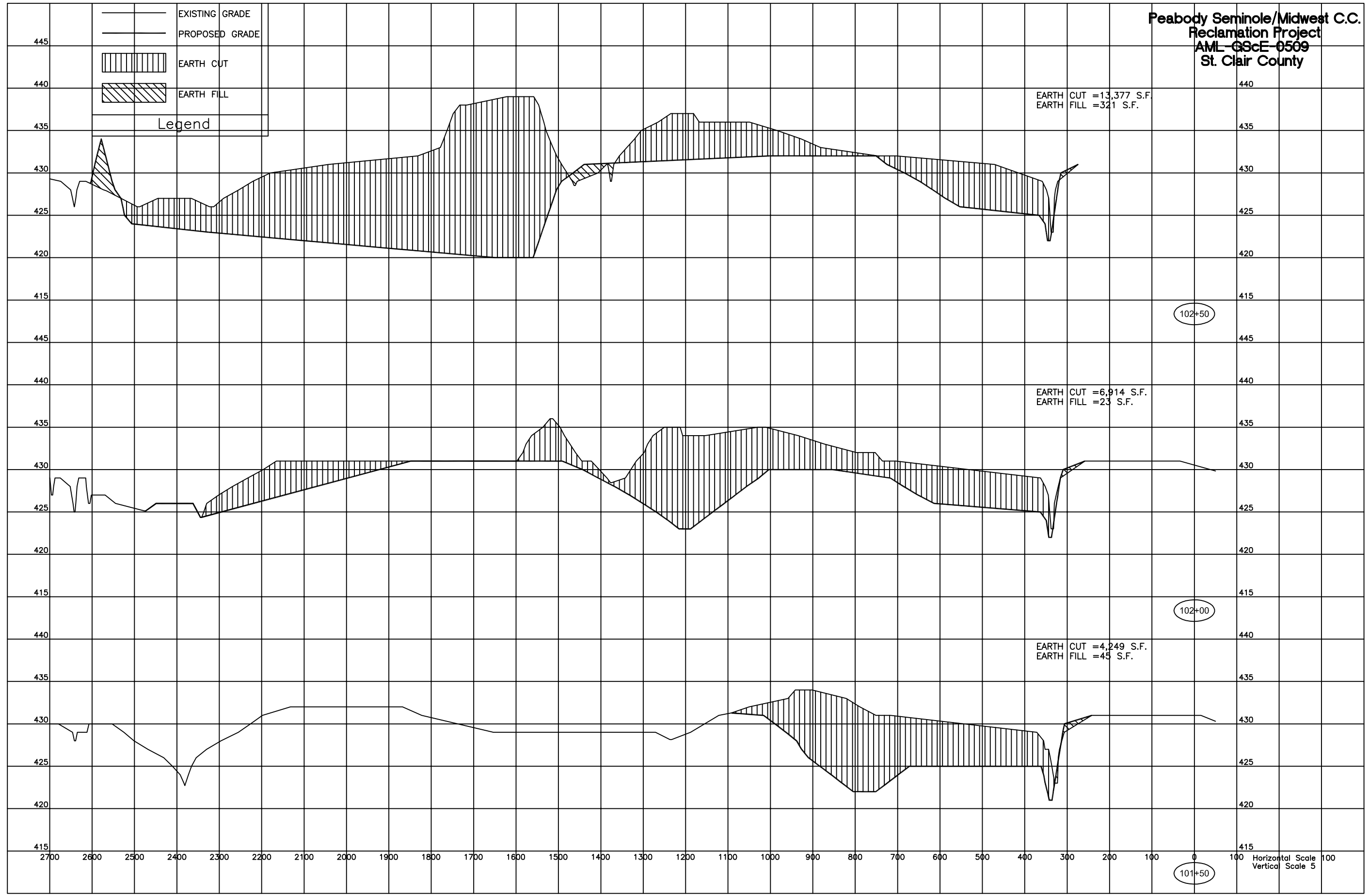
Existing & Proposed  
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Peabody Seminole/Midwest C.C.  
 Reclamation Project  
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——— EXISTING GRADE  
 ——— PROPOSED GRADE  
 EARTH CUT  
 EARTH FILL  
 Legend

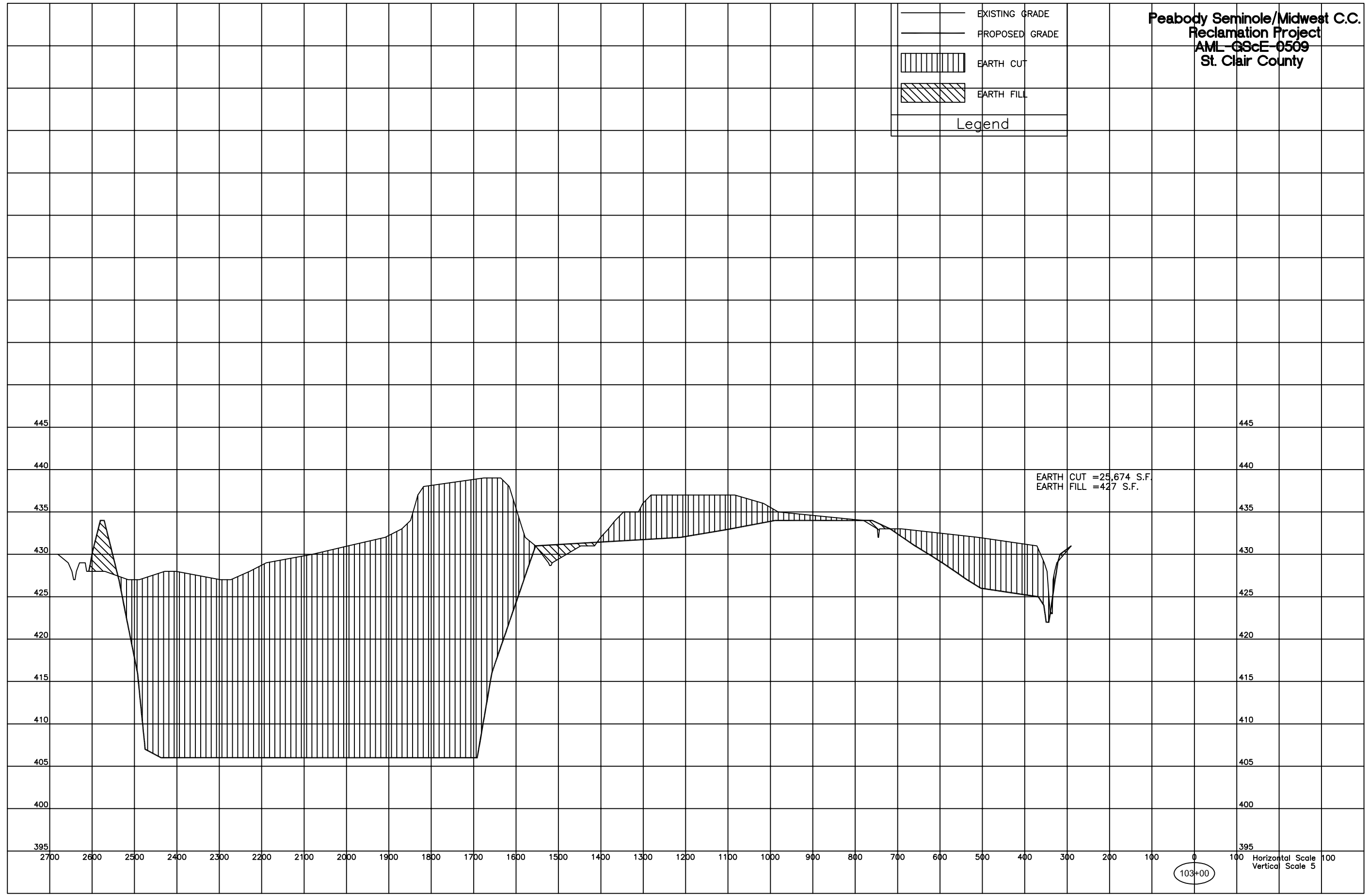


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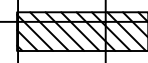
Peabody Seminole/Midwest C.C.  
Reclamation Project  
AML-GScE-0509  
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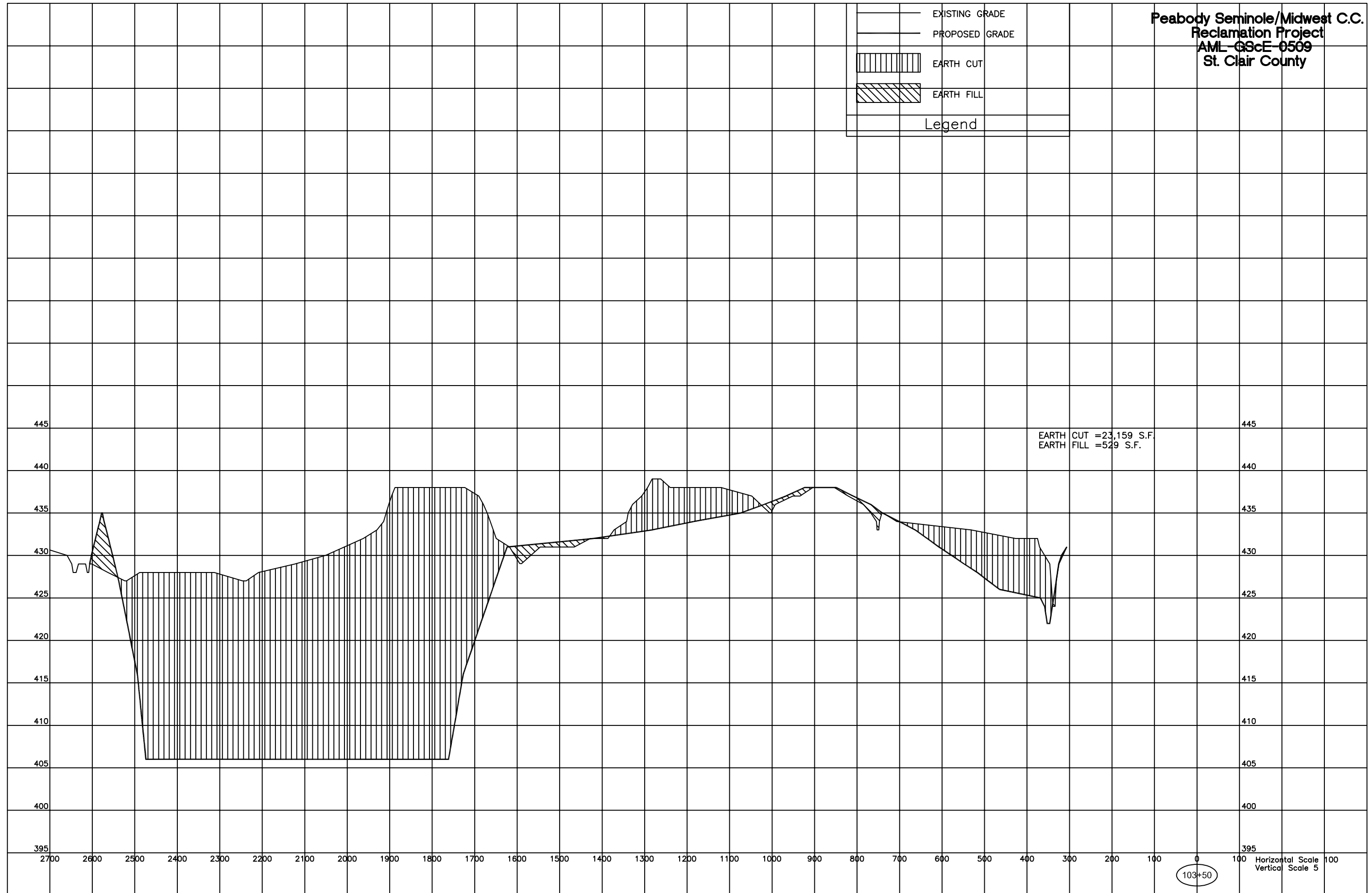
— EXISTING GRADE  
— PROPOSED GRADE  
▨ EARTH CUT  
▩ EARTH FILL  
Legend



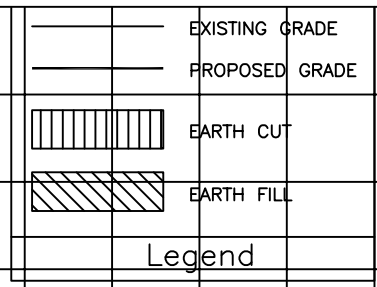


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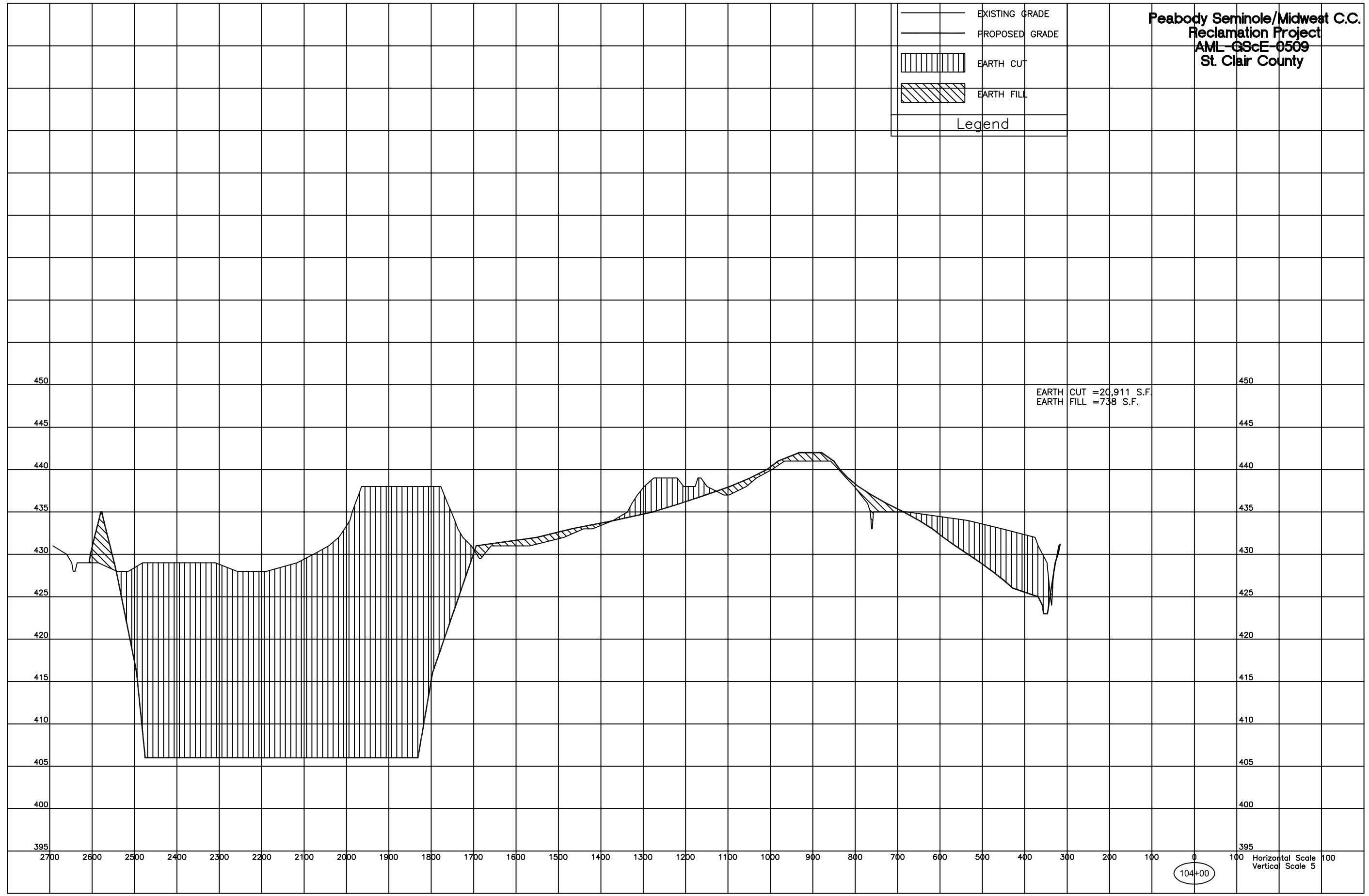
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|  | EXISTING GRADE |
|  | PROPOSED GRADE |
|  | EARTH CUT      |
|  | EARTH FILL     |
| Legend                                                                              |                |



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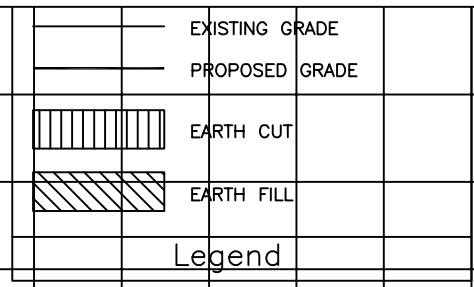


EARTH CUT = 20,911 S.F.  
 EARTH FILL = 738 S.F.

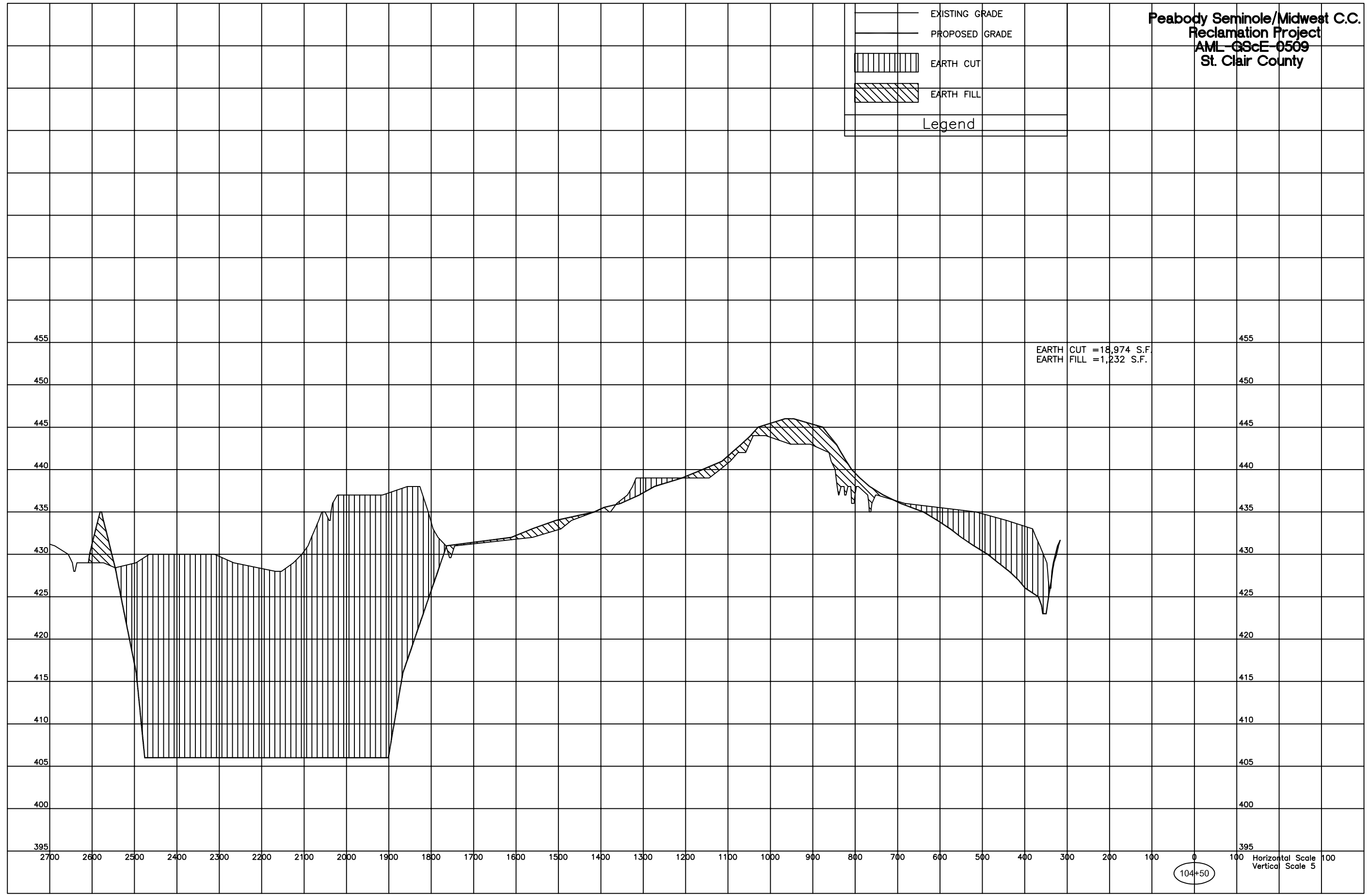


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Horizontal Scale 100  
 Vertical Scale 5

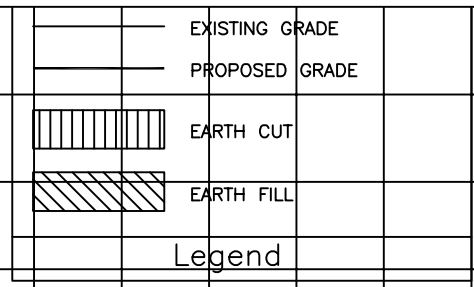


EARTH CUT = 18,974 S.F.  
 EARTH FILL = 1,232 S.F.

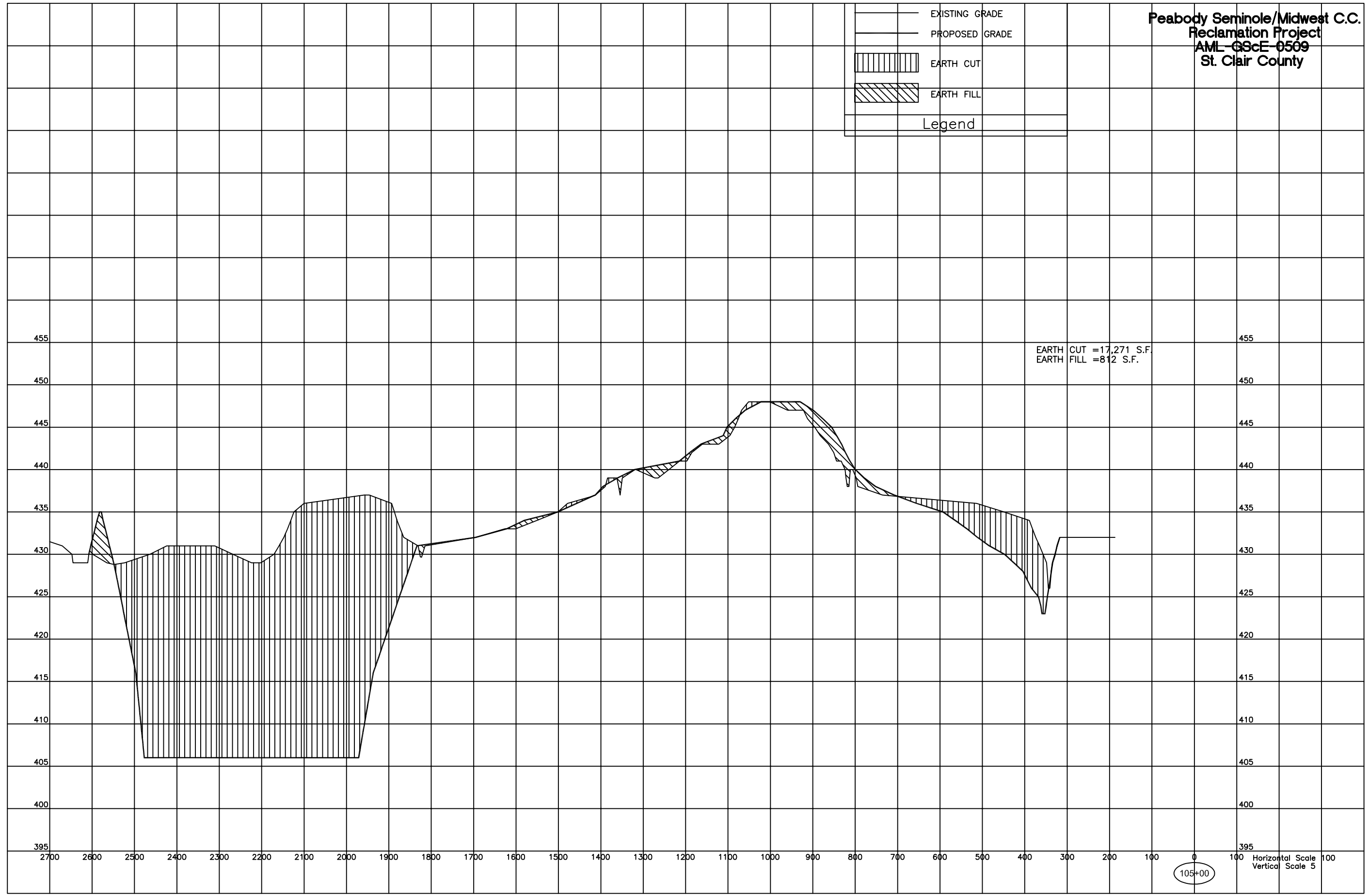


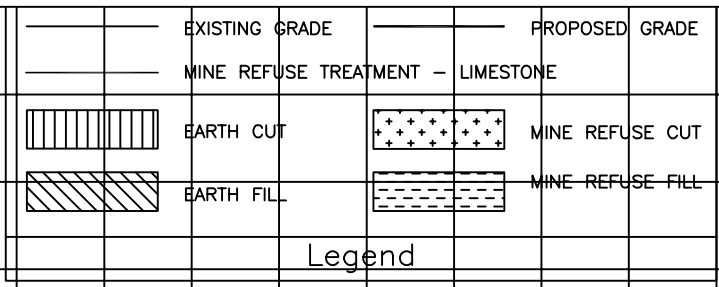
104+50

Horizontal Scale 100  
 Vertical Scale 5

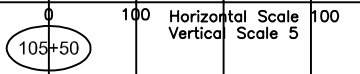
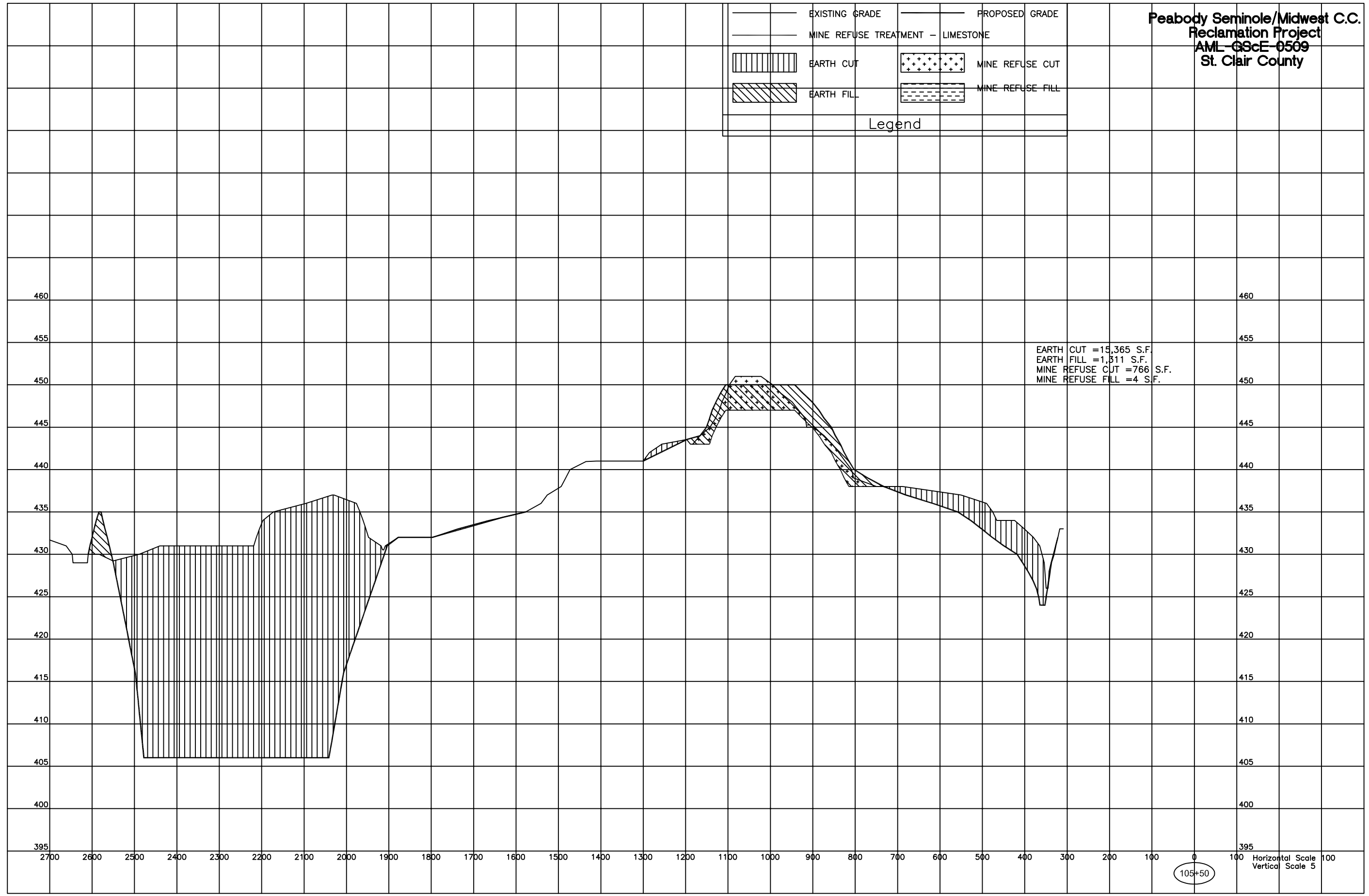


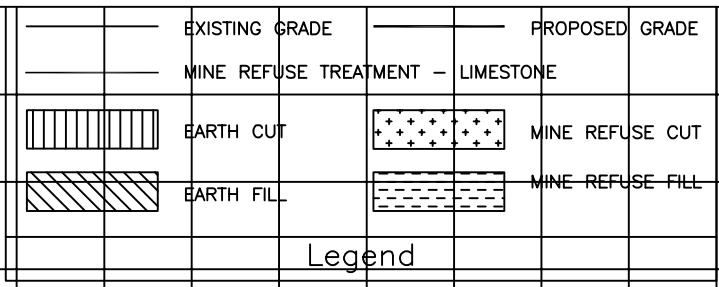
EARTH CUT = 17,271 S.F.  
 EARTH FILL = 812 S.F.



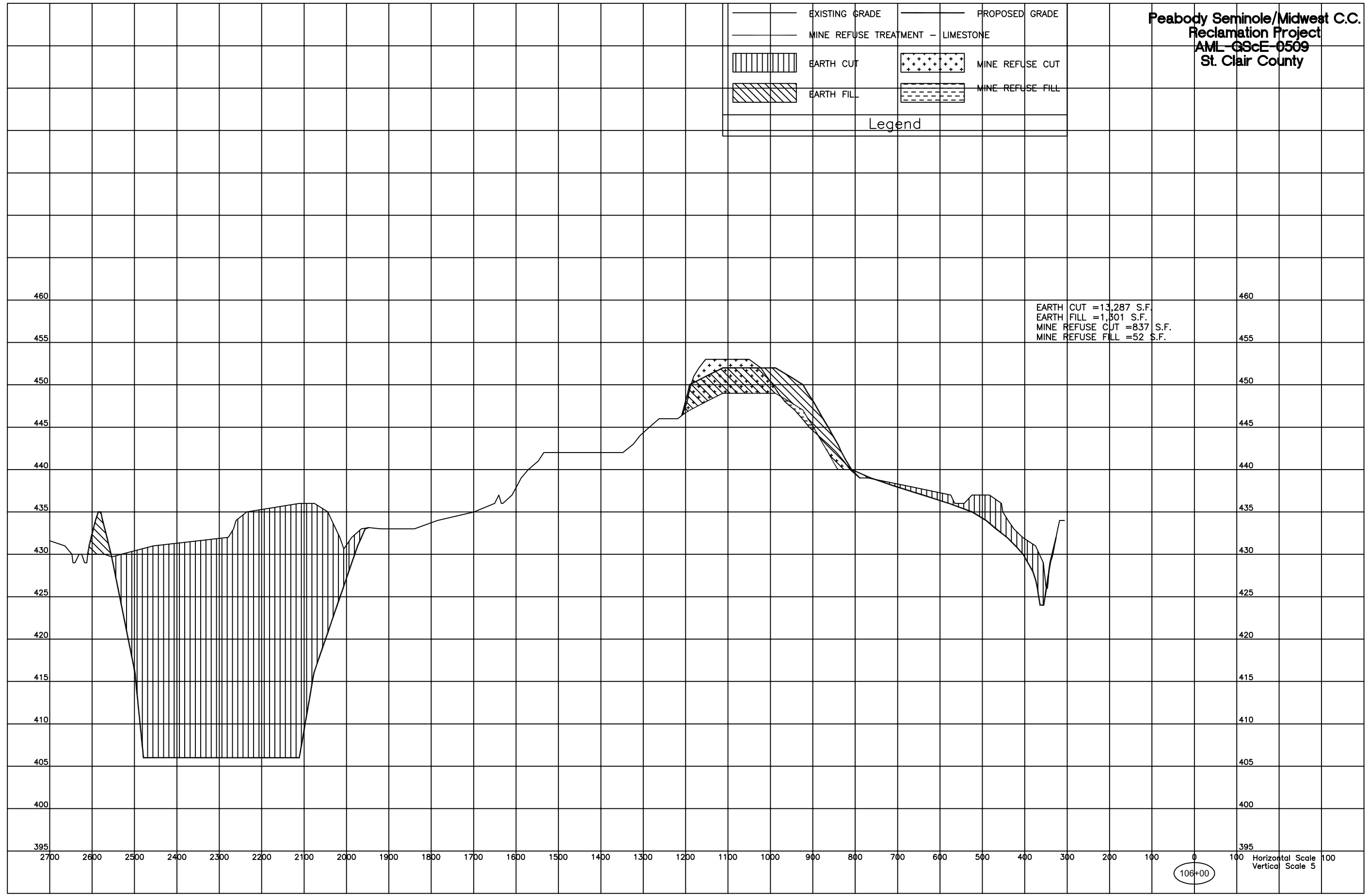


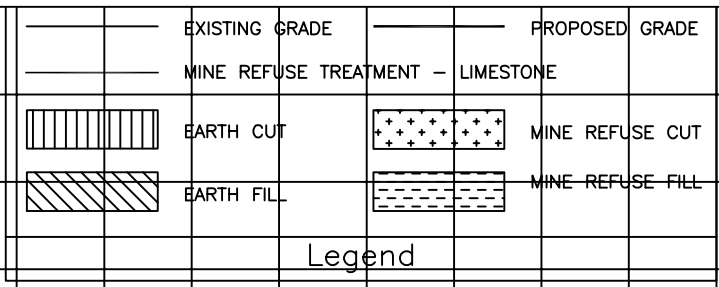
EARTH CUT = 15,365 S.F.  
 EARTH FILL = 1,311 S.F.  
 MINE REFUSE CUT = 766 S.F.  
 MINE REFUSE FILL = 4 S.F.



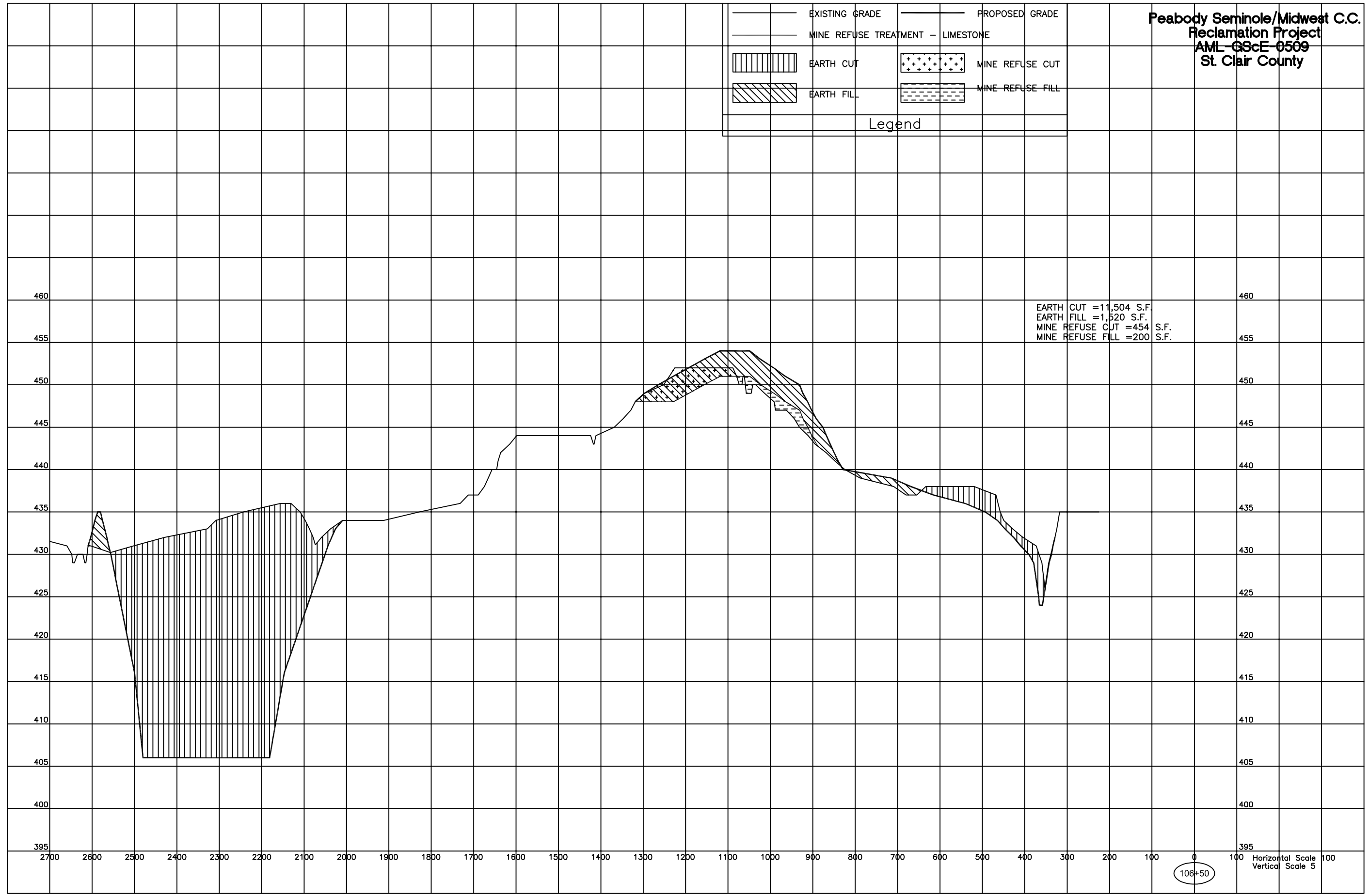


EARTH CUT = 13,287 S.F.  
 EARTH FILL = 1,301 S.F.  
 MINE REFUSE CUT = 837 S.F.  
 MINE REFUSE FILL = 52 S.F.



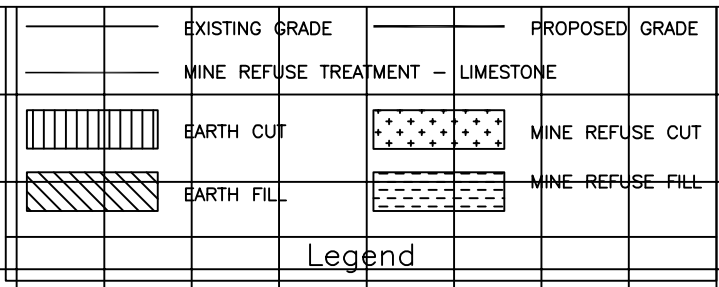


EARTH CUT = 11,504 S.F.  
 EARTH FILL = 1,520 S.F.  
 MINE REFUSE CUT = 454 S.F.  
 MINE REFUSE FILL = 200 S.F.

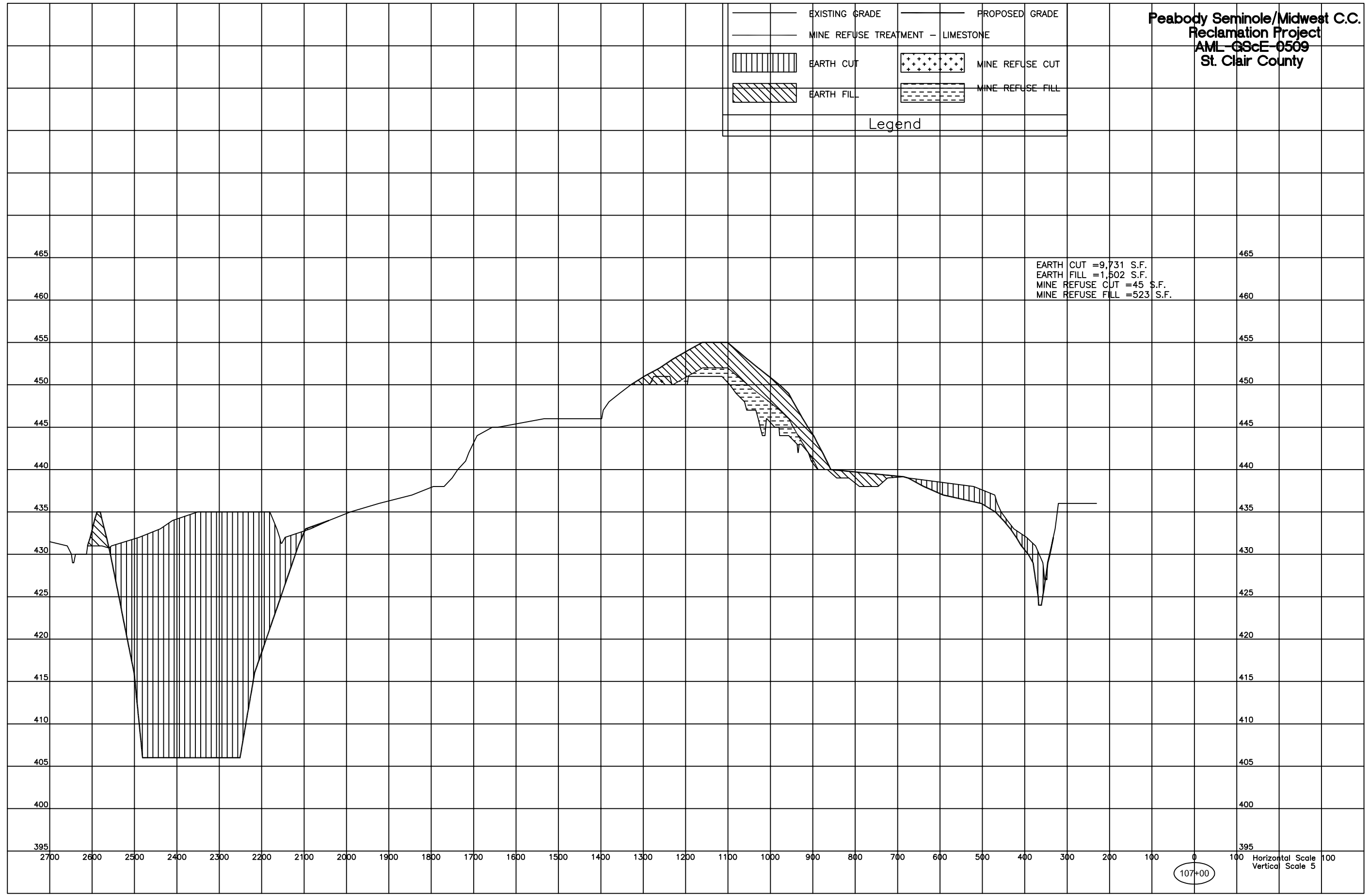


106+50

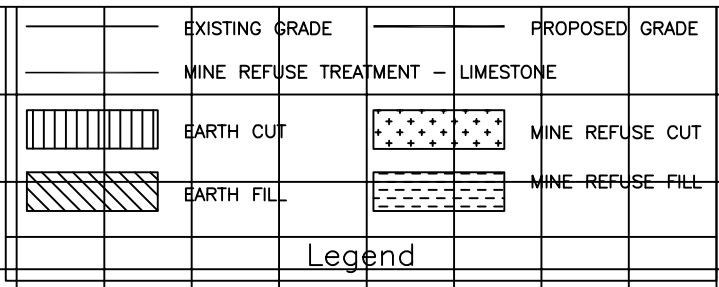
Horizontal Scale 100  
 Vertical Scale 5



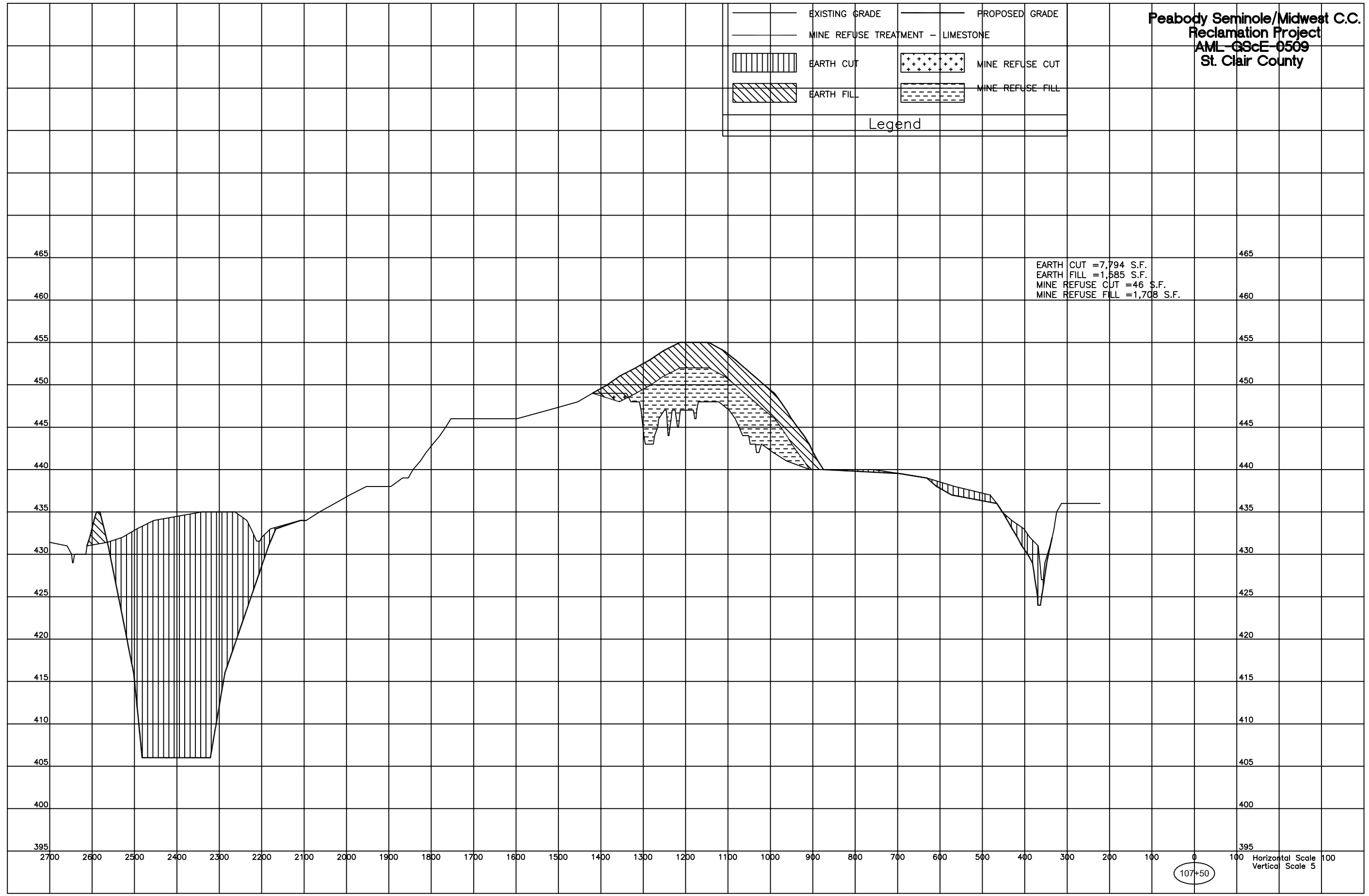
EARTH CUT = 9,731 S.F.  
 EARTH FILL = 1,502 S.F.  
 MINE REFUSE CUT = 45 S.F.  
 MINE REFUSE FILL = 523 S.F.



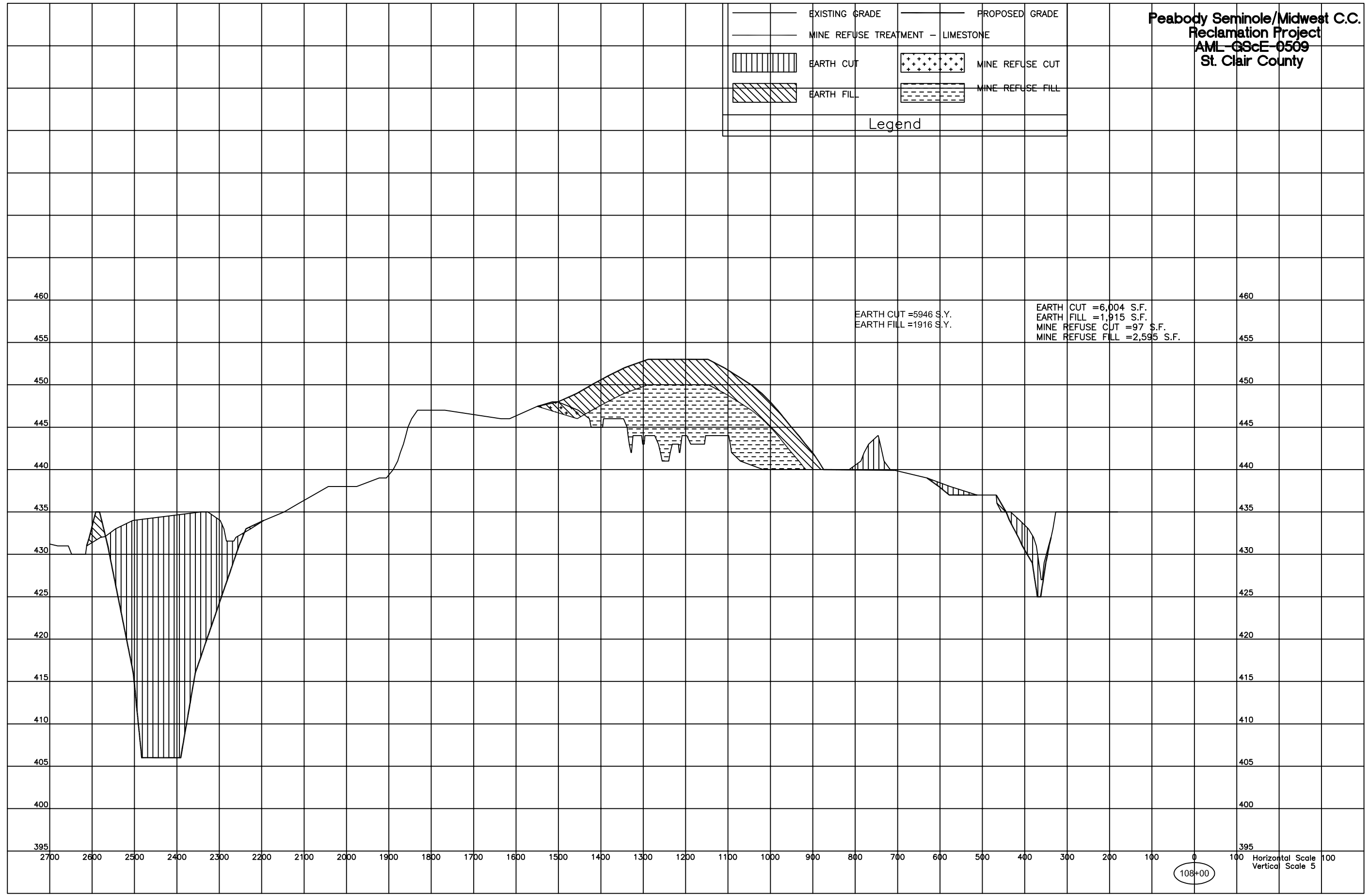
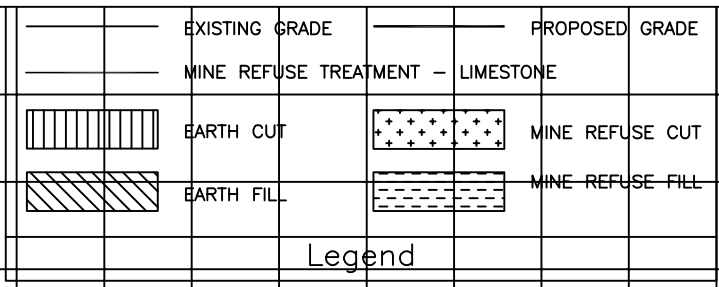




EARTH CUT = 7,794 S.F.  
 EARTH FILL = 1,585 S.F.  
 MINE REFUSE CUT = 46 S.F.  
 MINE REFUSE FILL = 1,708 S.F.



107+50



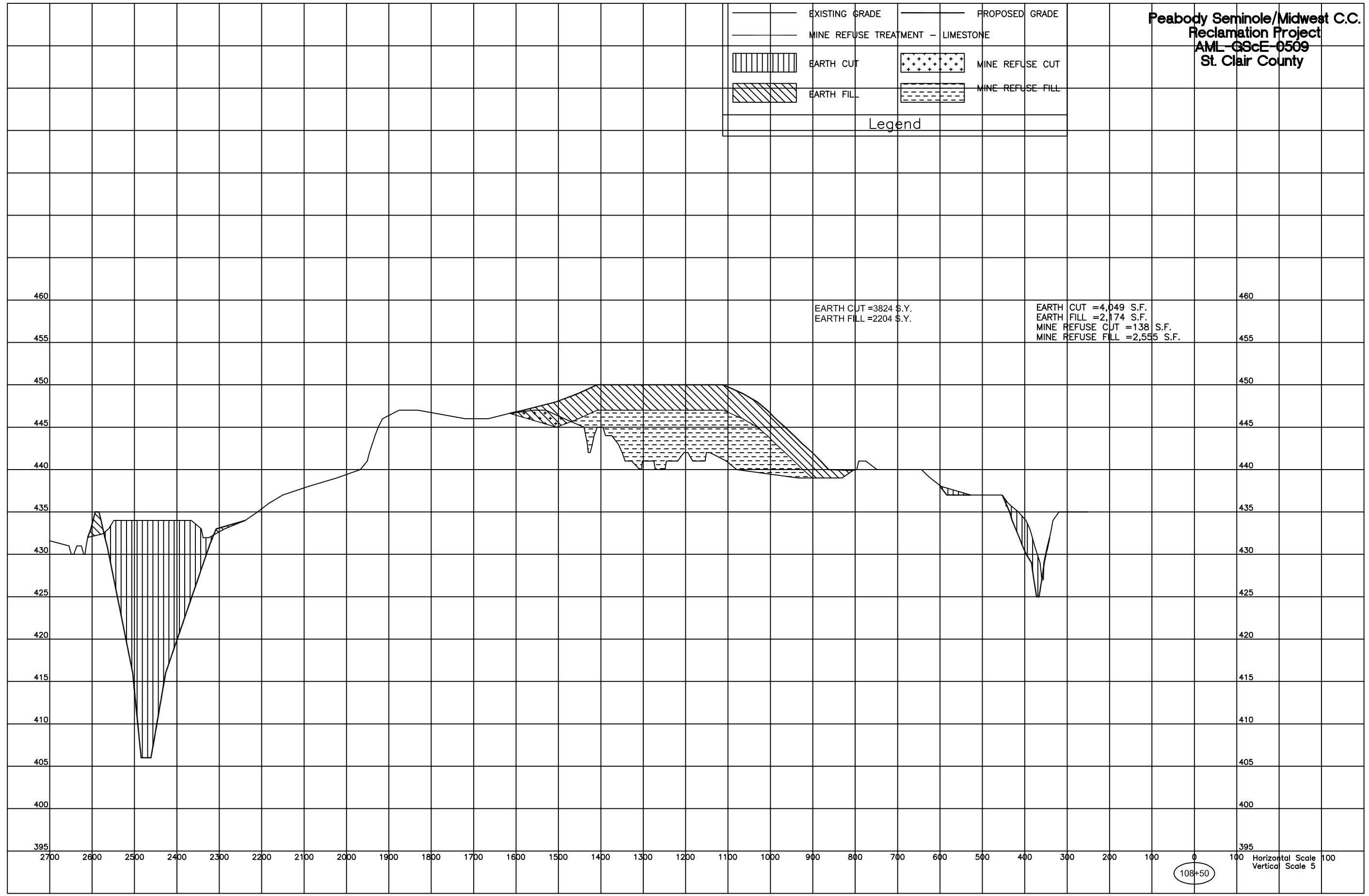
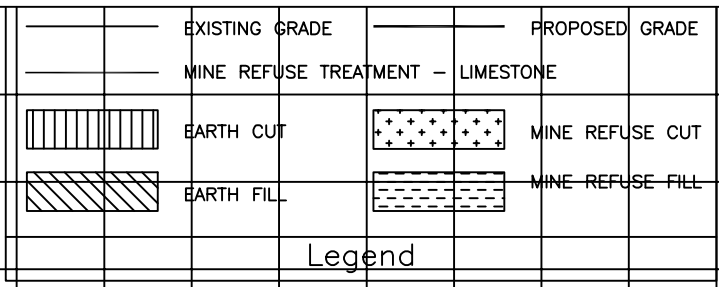
EARTH CUT = 5946 S.Y.  
 EARTH FILL = 1916 S.Y.

EARTH CUT = 6,004 S.F.  
 EARTH FILL = 1,915 S.F.  
 MINE REFUSE CUT = 97 S.F.  
 MINE REFUSE FILL = 2,595 S.F.

2700 2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500 400 300 200 100 0 100  
 395 400 405 410 415 420 425 430 435 440 445 450 455 460 395

108+00

Horizontal Scale 100  
 Vertical Scale 5



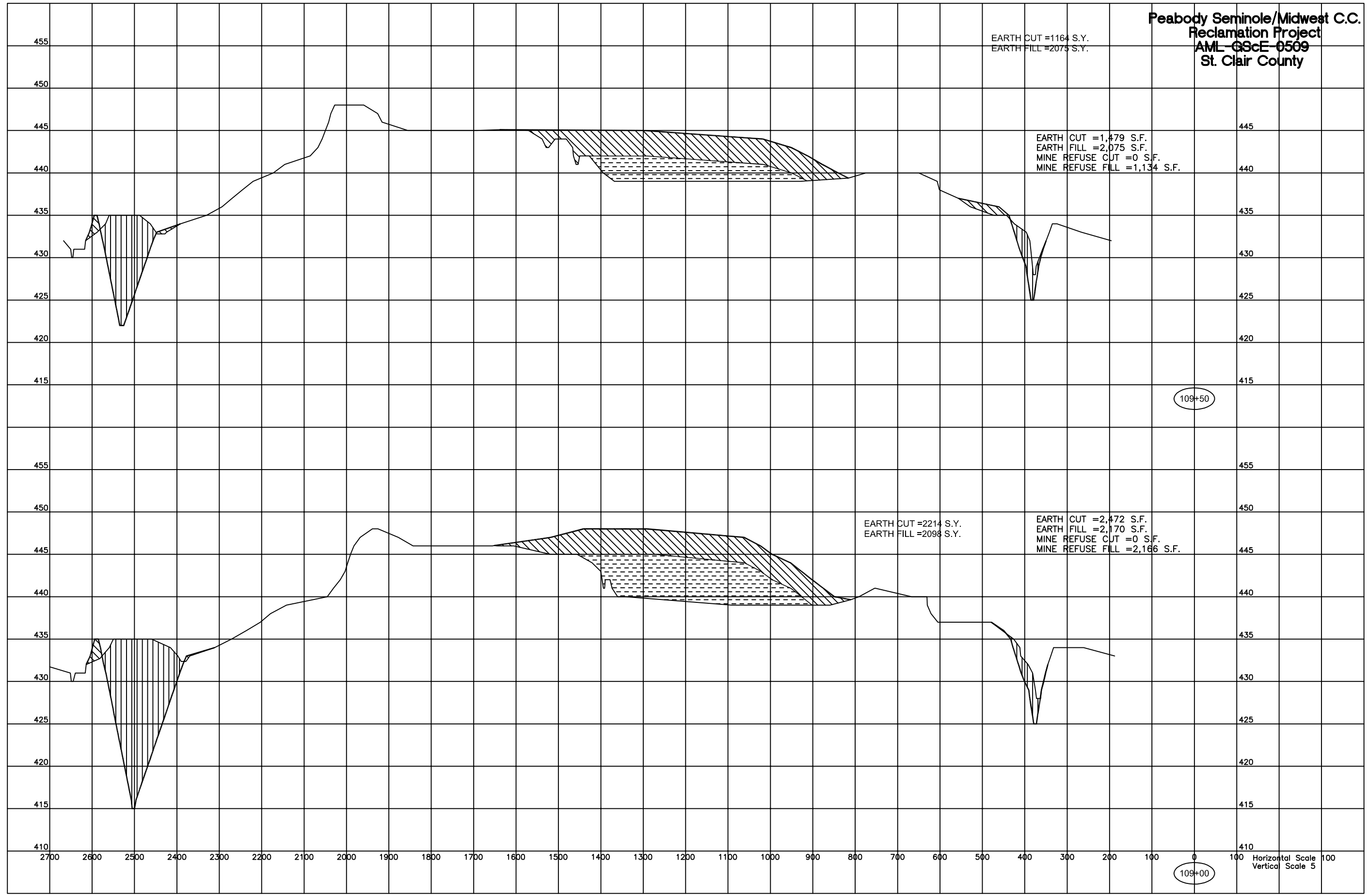
EARTH CUT = 3824 S.F.  
 EARTH FILL = 2204 S.F.

EARTH CUT = 4,049 S.F.  
 EARTH FILL = 2,174 S.F.  
 MINE REFUSE CUT = 138 S.F.  
 MINE REFUSE FILL = 2,555 S.F.

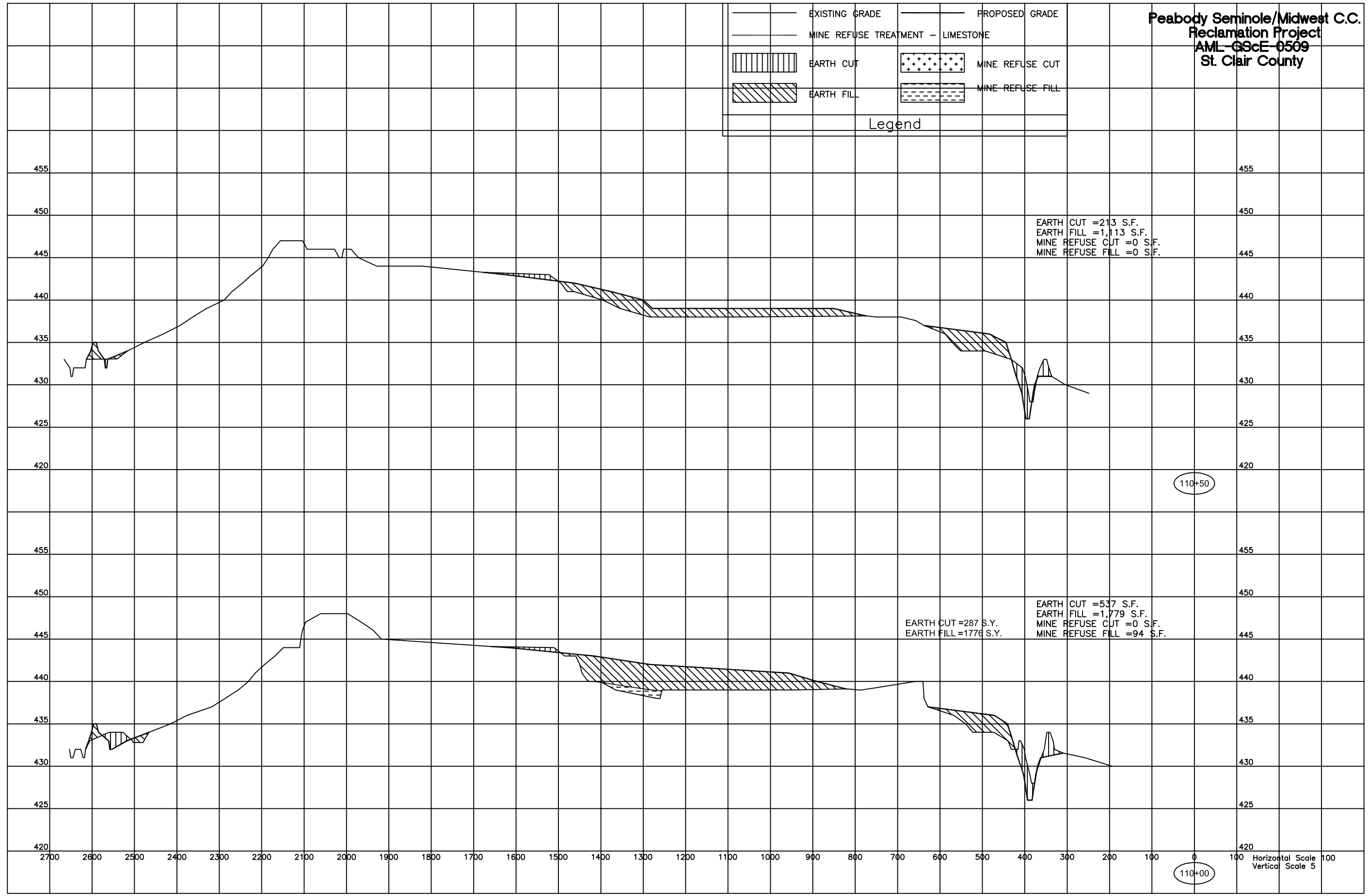
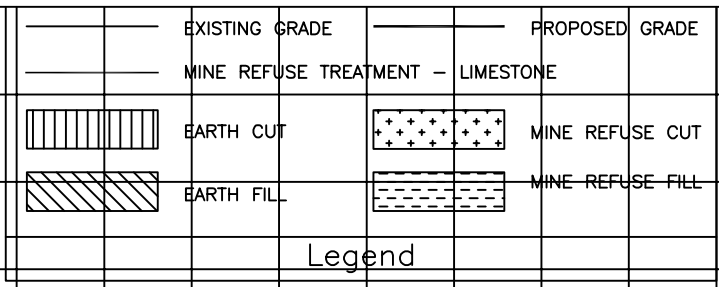
108+50

Horizontal Scale 100  
 Vertical Scale 5

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EARTH CUT =213 S.F.  
 EARTH FILL =1,113 S.F.  
 MINE REFUSE CUT =0 S.F.  
 MINE REFUSE FILL =0 S.F.

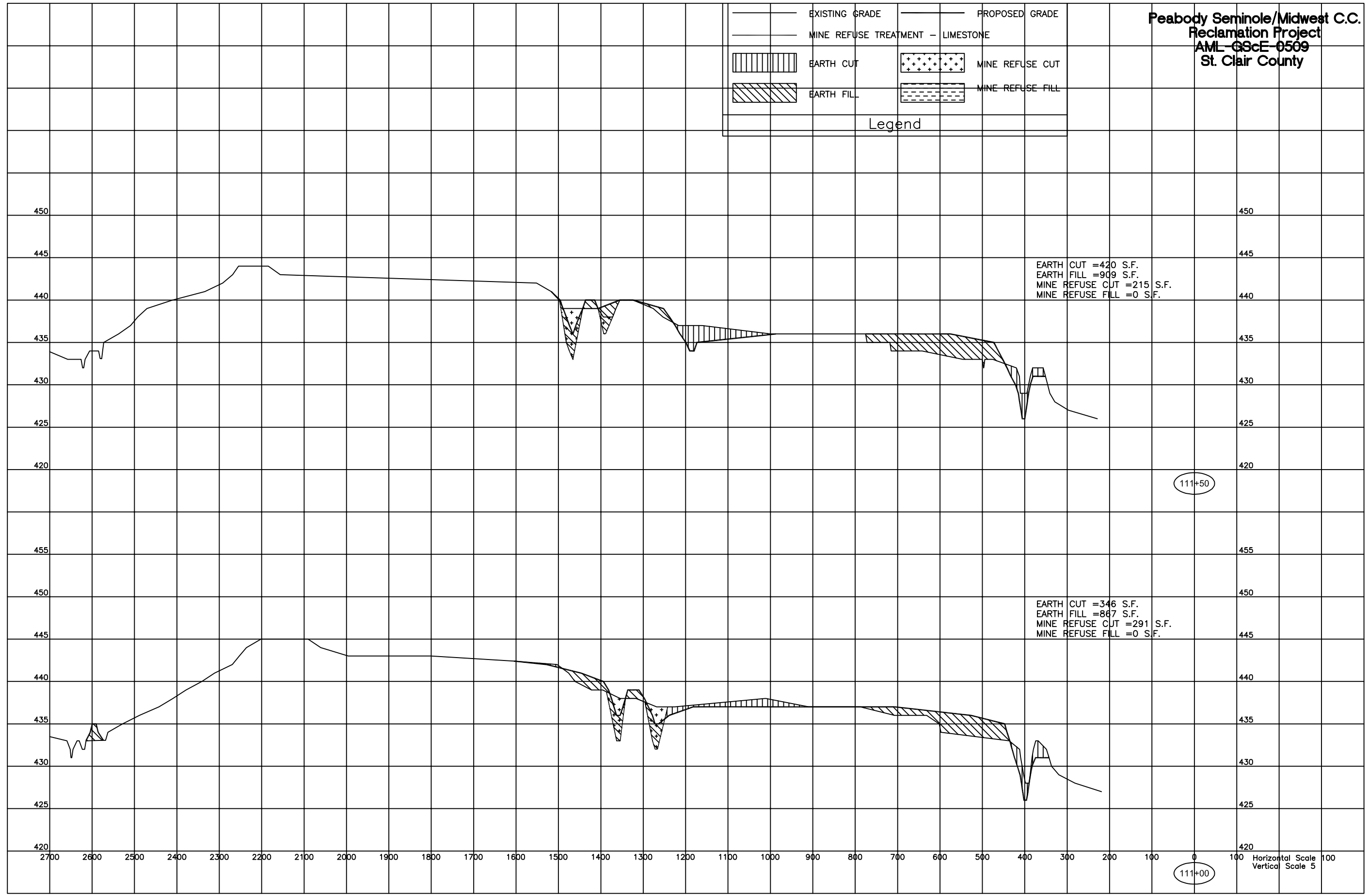
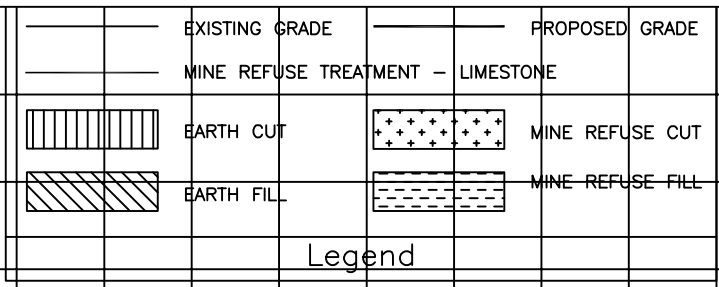
EARTH CUT =287 S.Y.  
 EARTH FILL =1776 S.Y.

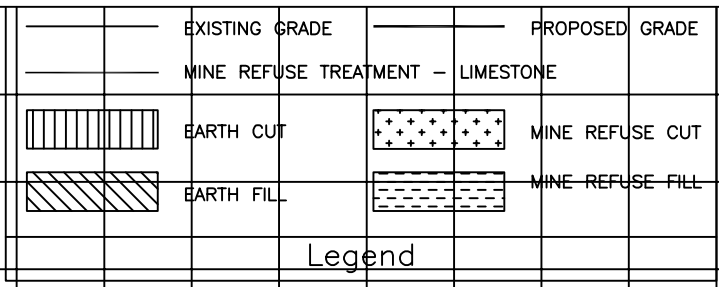
EARTH CUT =537 S.F.  
 EARTH FILL =1,779 S.F.  
 MINE REFUSE CUT =0 S.F.  
 MINE REFUSE FILL =94 S.F.

110+50

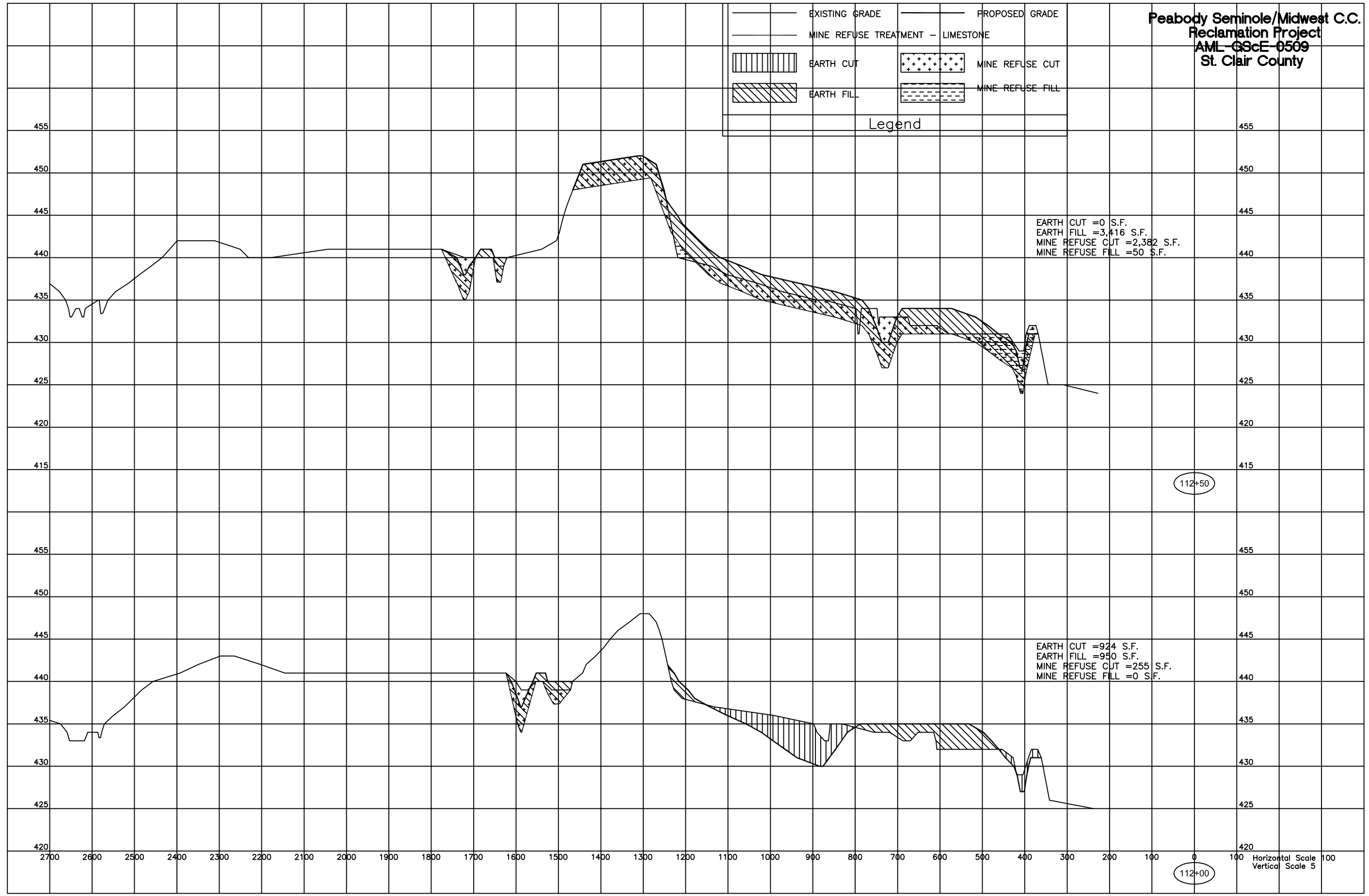
110+00

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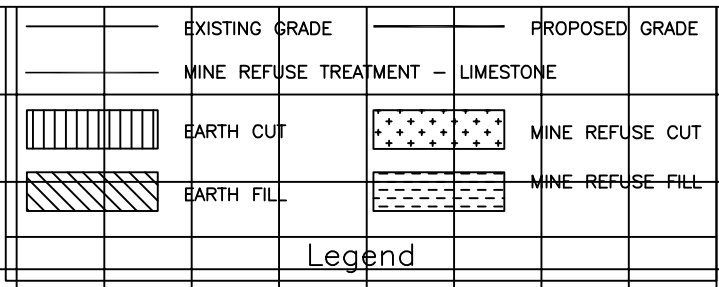


EARTH CUT =0 S.F.  
 EARTH FILL =3,416 S.F.  
 MINE REFUSE CUT =2,382 S.F.  
 MINE REFUSE FILL =50 S.F.

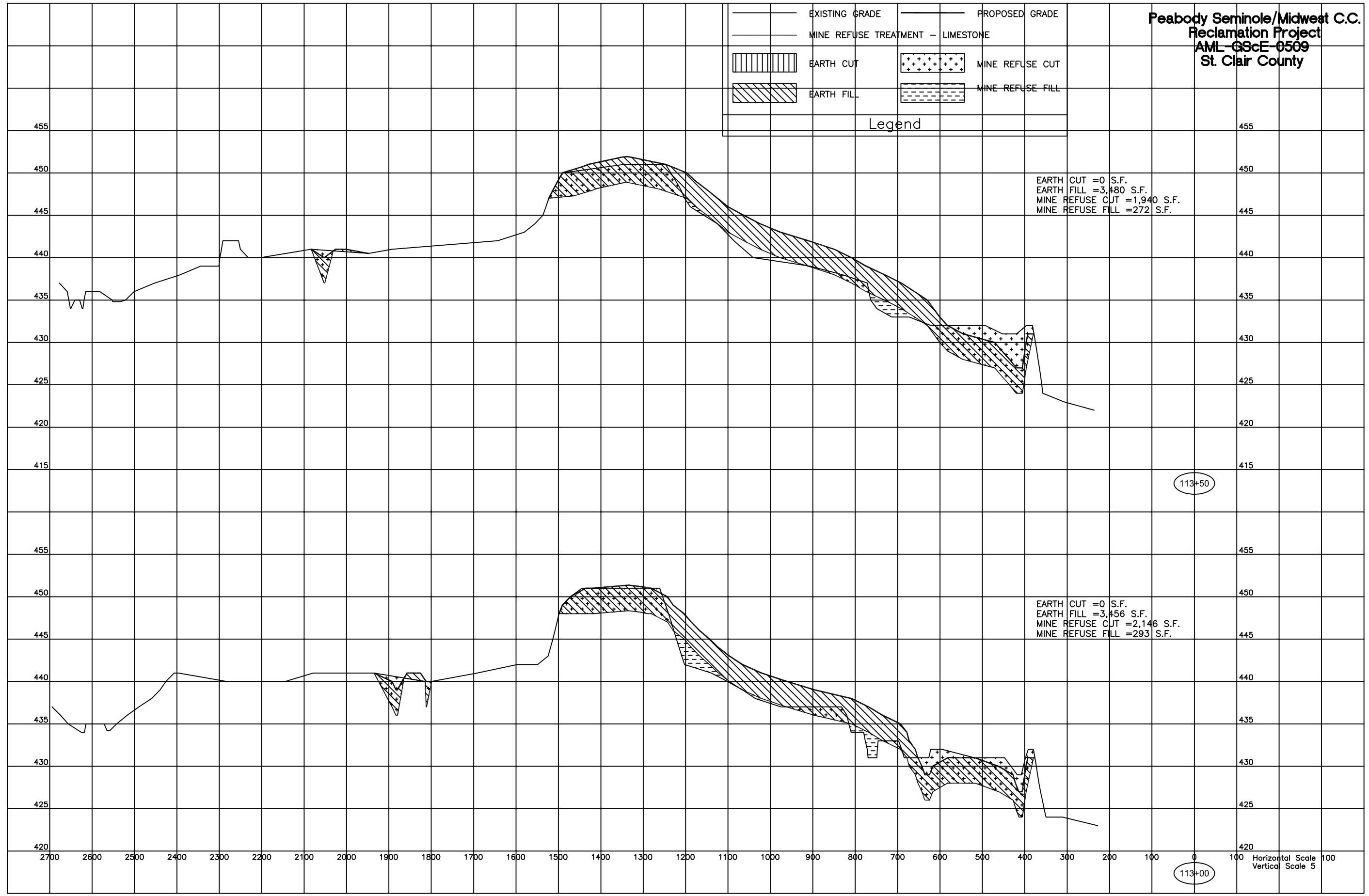


EARTH CUT =924 S.F.  
 EARTH FILL =950 S.F.  
 MINE REFUSE CUT =255 S.F.  
 MINE REFUSE FILL =0 S.F.

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EARTH CUT = 0 S.F.  
 EARTH FILL = 3,480 S.F.  
 MINE REFUSE CUT = 1,940 S.F.  
 MINE REFUSE FILL = 272 S.F.



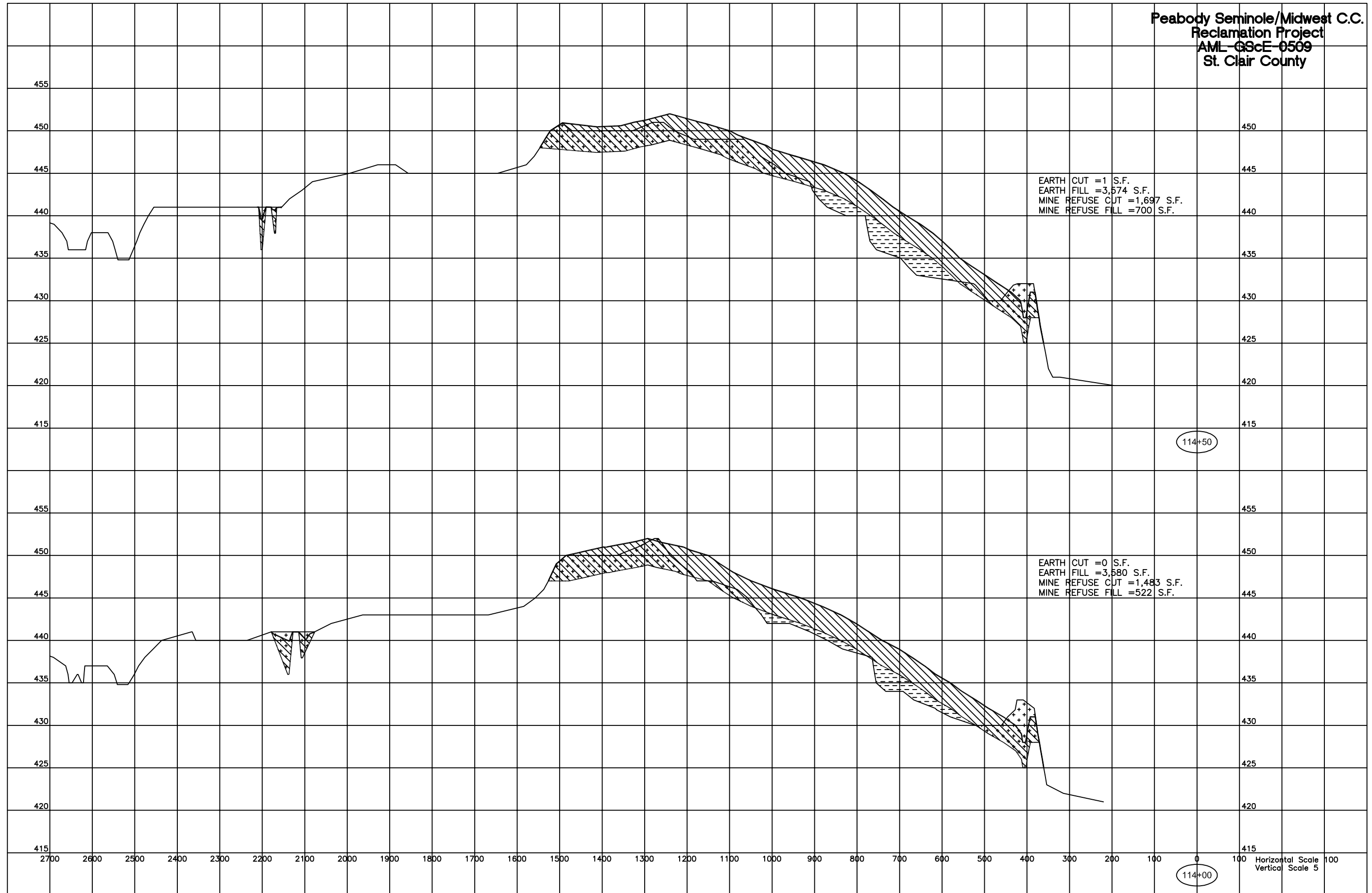
EARTH CUT = 0 S.F.  
 EARTH FILL = 3,456 S.F.  
 MINE REFUSE CUT = 2,146 S.F.  
 MINE REFUSE FILL = 293 S.F.

113+50

113+00



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EARTH CUT = 1 S.F.  
 EARTH FILL = 3,574 S.F.  
 MINE REFUSE CUT = 1,697 S.F.  
 MINE REFUSE FILL = 700 S.F.

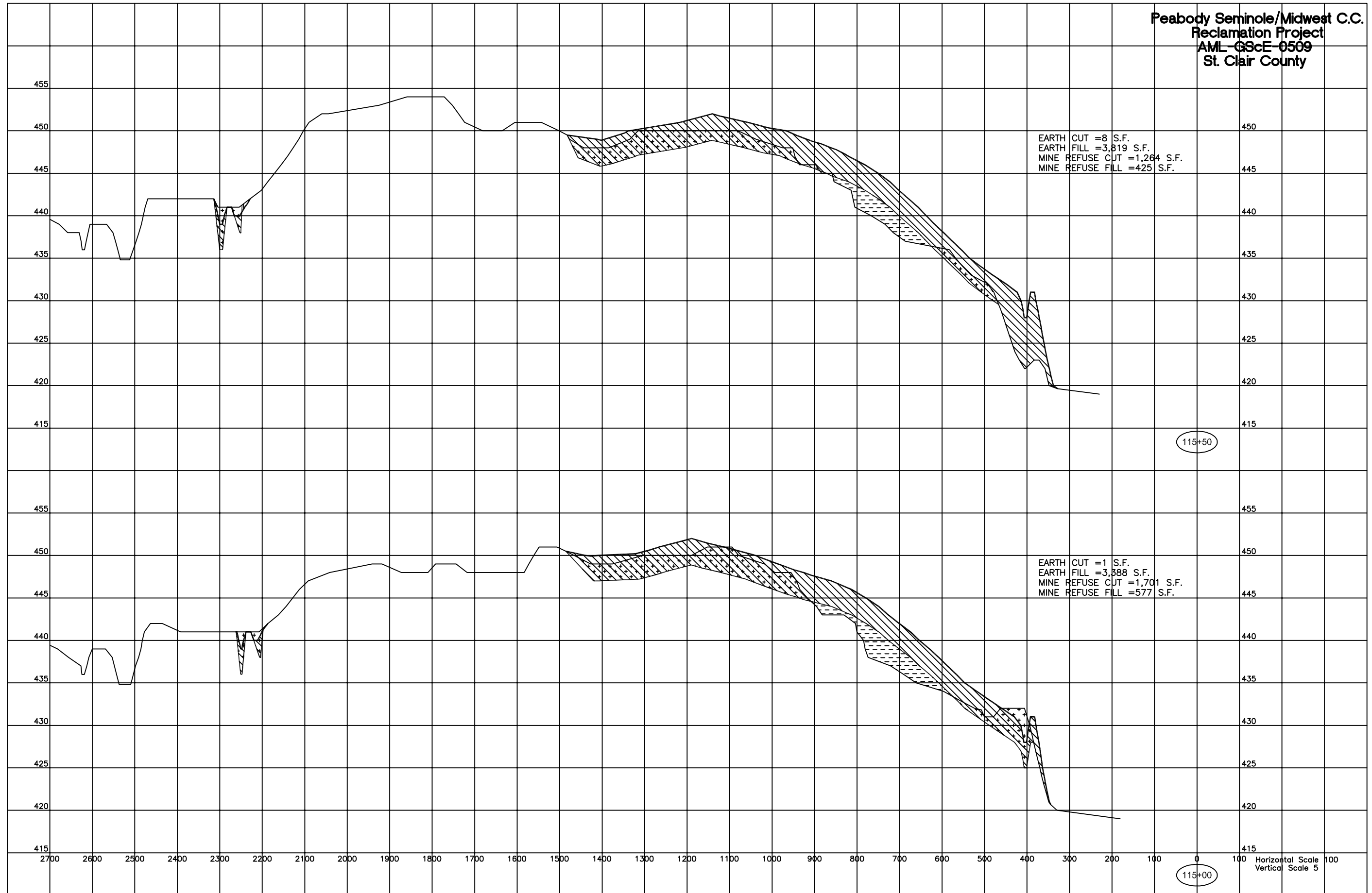
EARTH CUT = 0 S.F.  
 EARTH FILL = 3,580 S.F.  
 MINE REFUSE CUT = 1,483 S.F.  
 MINE REFUSE FILL = 522 S.F.

114+50

114+00

Horizontal Scale 100  
 Vertical Scale 5

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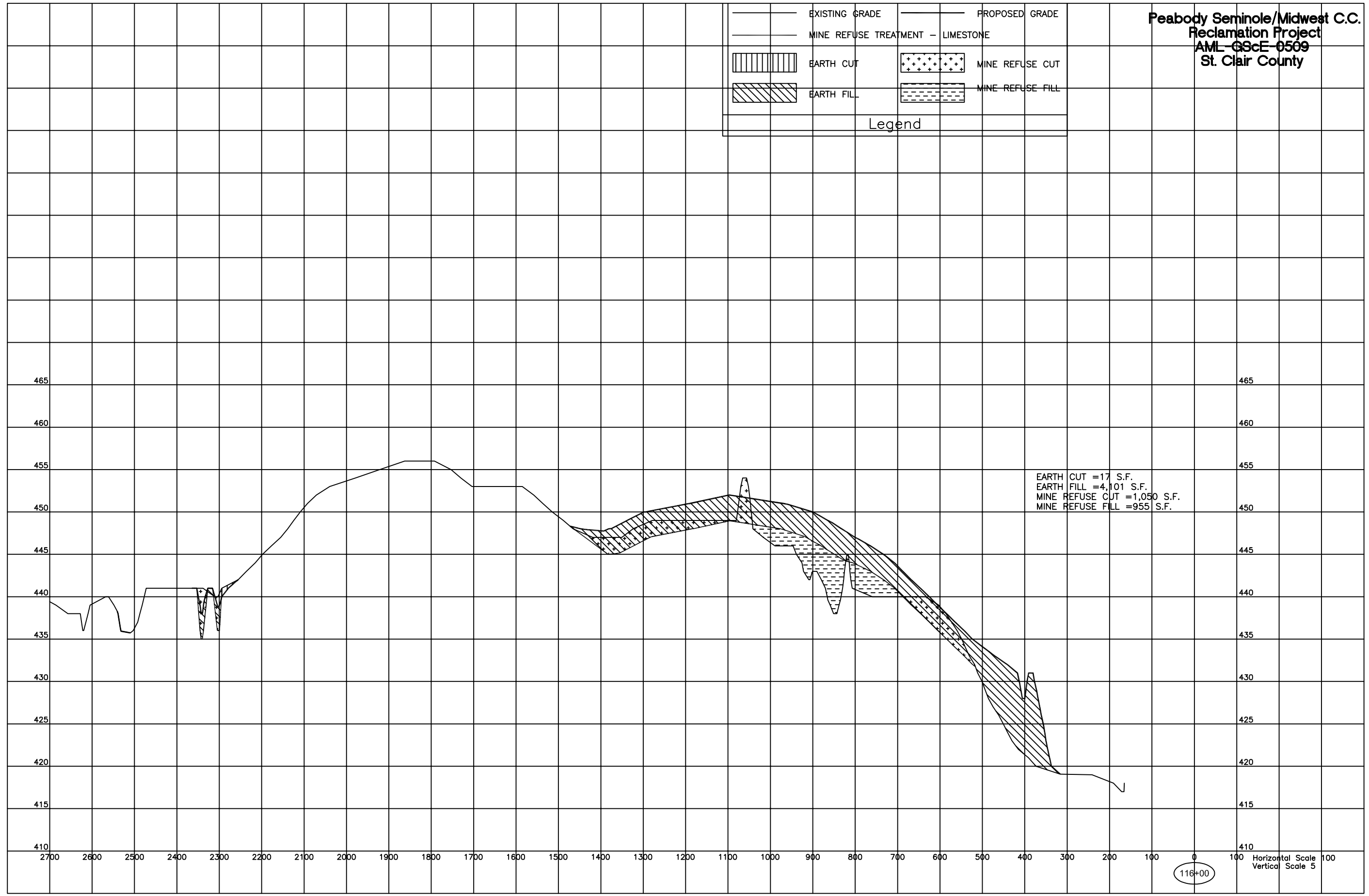
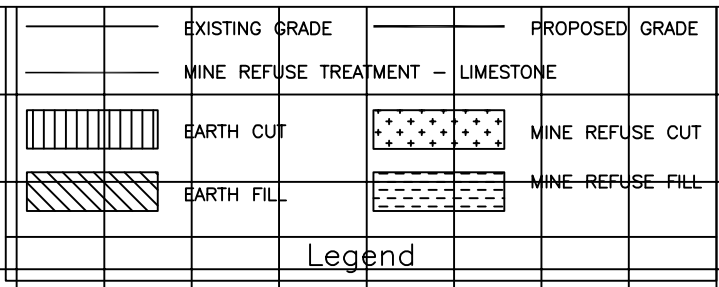
EARTH CUT = 8 S.F.  
 EARTH FILL = 3,819 S.F.  
 MINE REFUSE CUT = 1,264 S.F.  
 MINE REFUSE FILL = 425 S.F.

EARTH CUT = 1 S.F.  
 EARTH FILL = 3,388 S.F.  
 MINE REFUSE CUT = 1,701 S.F.  
 MINE REFUSE FILL = 577 S.F.

115+50

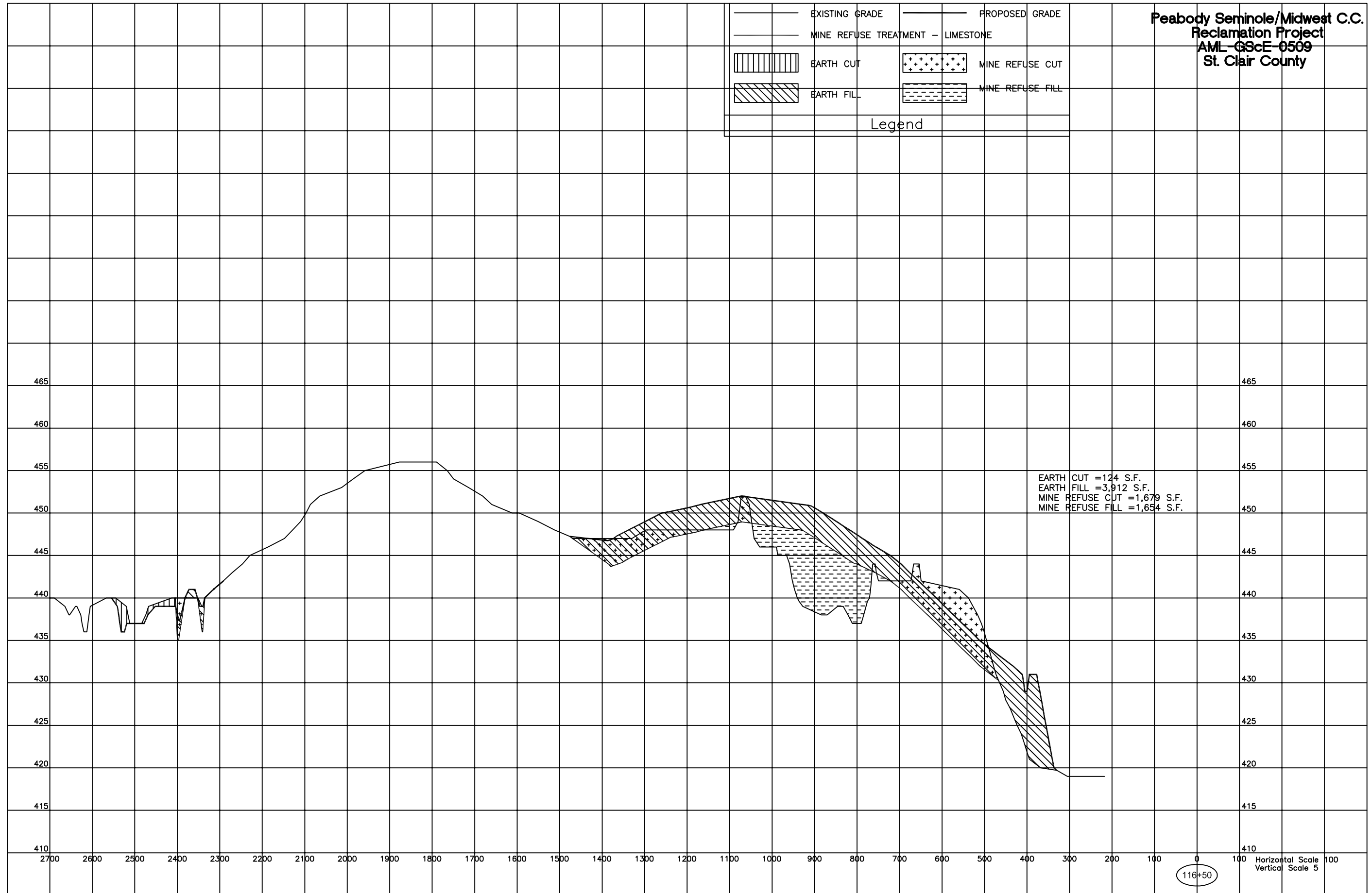
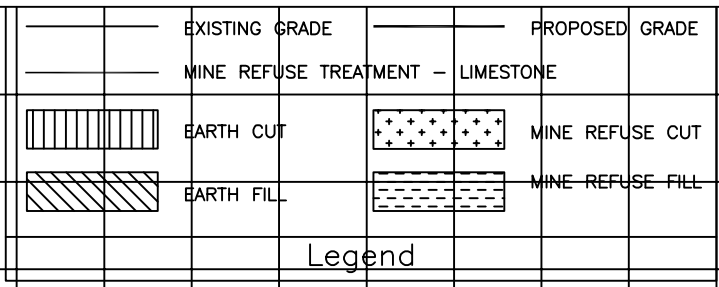
115+00

Horizontal Scale 100  
 Vertical Scale 5



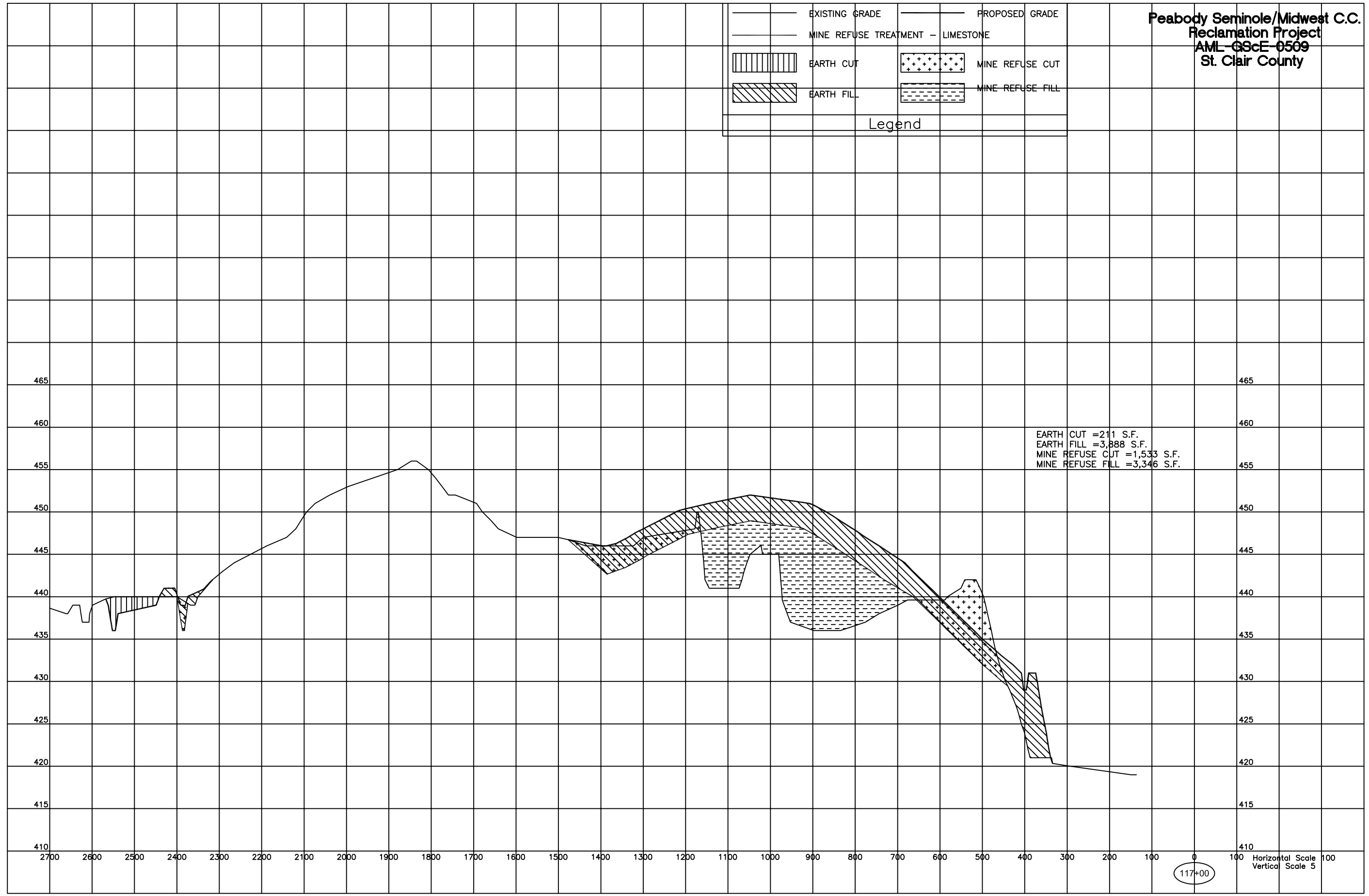
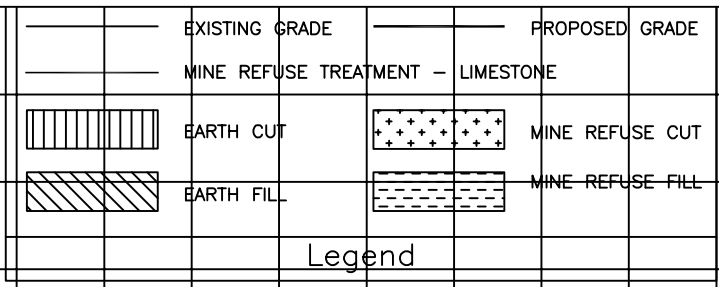
EARTH CUT = 17 S.F.  
 EARTH FILL = 4,101 S.F.  
 MINE REFUSE CUT = 1,050 S.F.  
 MINE REFUSE FILL = 955 S.F.

2700 2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500 400 300 200 100 0 100  
 465 460 455 450 445 440 435 430 425 420 415 410  
 Horizontal Scale 100  
 Vertical Scale 5



EARTH CUT = 124 S.F.  
 EARTH FILL = 3,912 S.F.  
 MINE REFUSE CUT = 1,679 S.F.  
 MINE REFUSE FILL = 1,654 S.F.

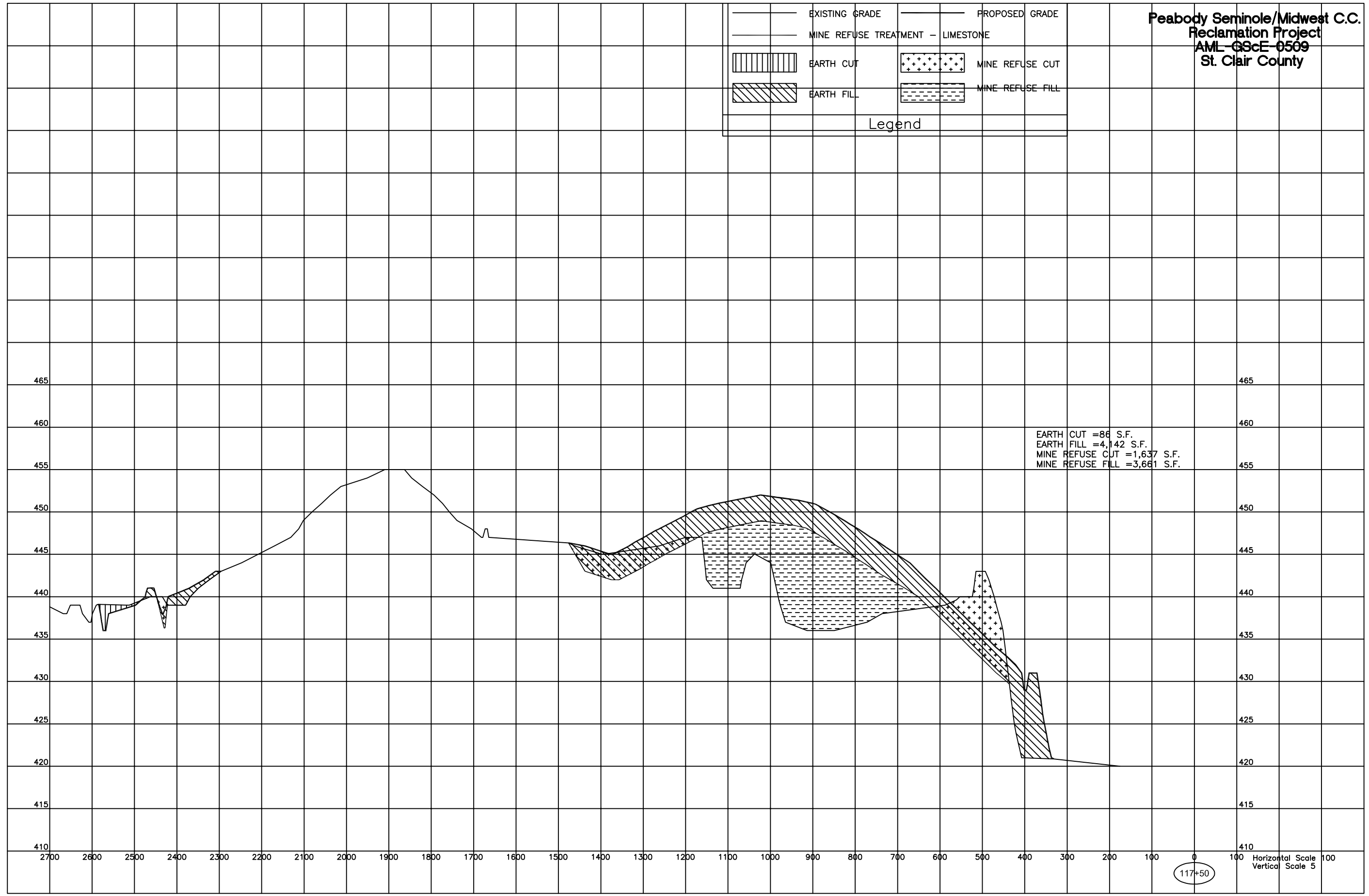
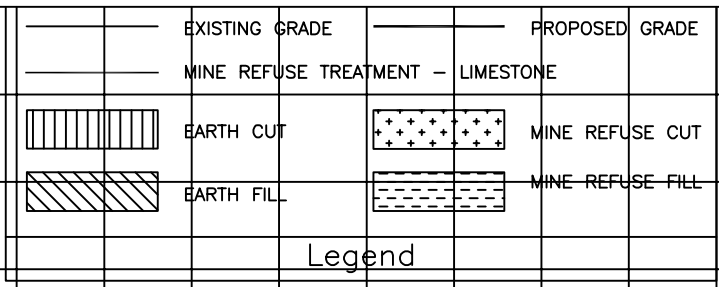
2700 2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000 900 800 700 600 500 400 300 200 100 0 100  
 410 415 420 425 430 435 440 445 450 455 460 465  
 116+50  
 Horizontal Scale 100  
 Vertical Scale 5



EARTH CUT =211 S.F.  
 EARTH FILL =3,888 S.F.  
 MINE REFUSE CUT =1,533 S.F.  
 MINE REFUSE FILL =3,346 S.F.

117+00

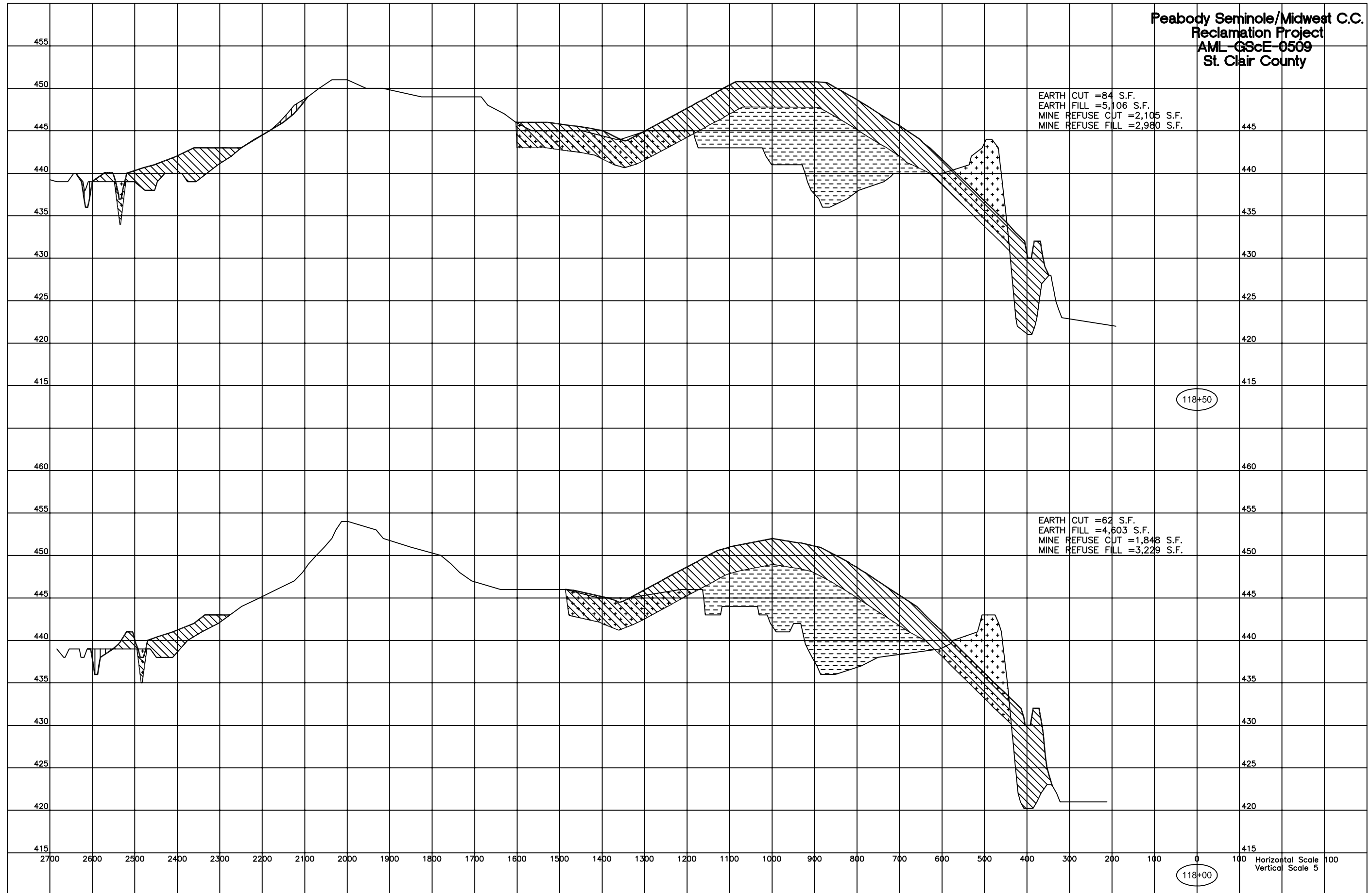
Horizontal Scale 100  
 Vertical Scale 5



EARTH CUT = 86 S.F.  
 EARTH FILL = 4,142 S.F.  
 MINE REFUSE CUT = 1,637 S.F.  
 MINE REFUSE FILL = 3,661 S.F.

117+50  
 Horizontal Scale 100  
 Vertical Scale 5

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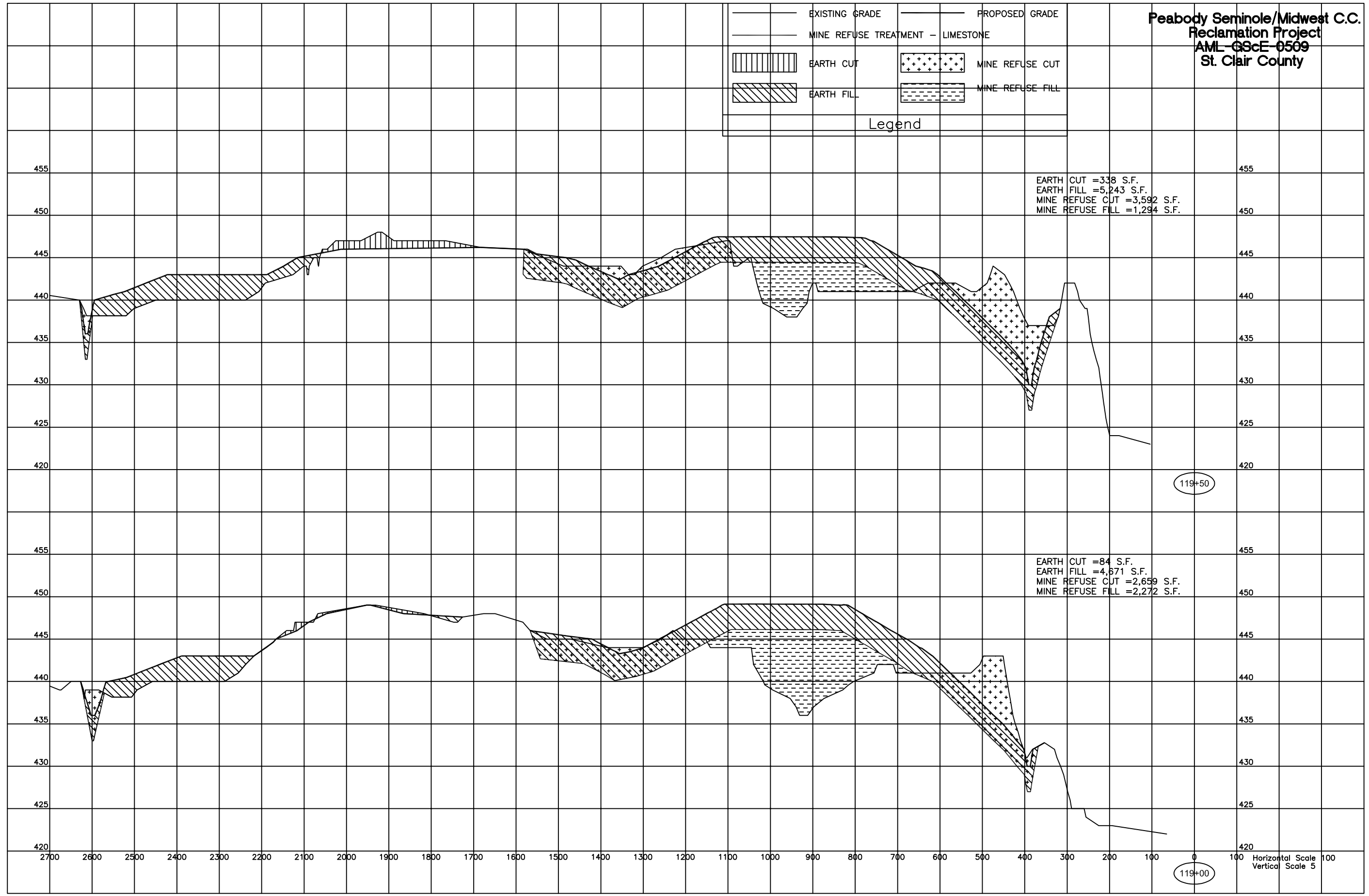
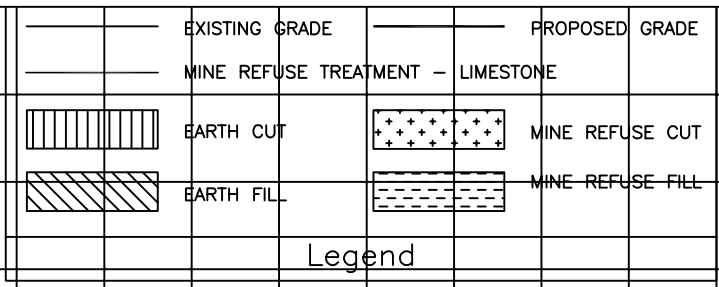


118+50

118+00

Horizontal Scale 100  
 Vertical Scale 5

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EARTH CUT = 338 S.F.  
 EARTH FILL = 5,243 S.F.  
 MINE REFUSE CUT = 3,592 S.F.  
 MINE REFUSE FILL = 1,294 S.F.

EARTH CUT = 84 S.F.  
 EARTH FILL = 4,671 S.F.  
 MINE REFUSE CUT = 2,659 S.F.  
 MINE REFUSE FILL = 2,272 S.F.

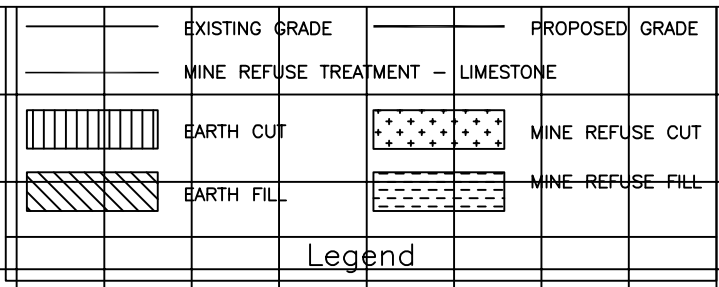
119+50

119+00

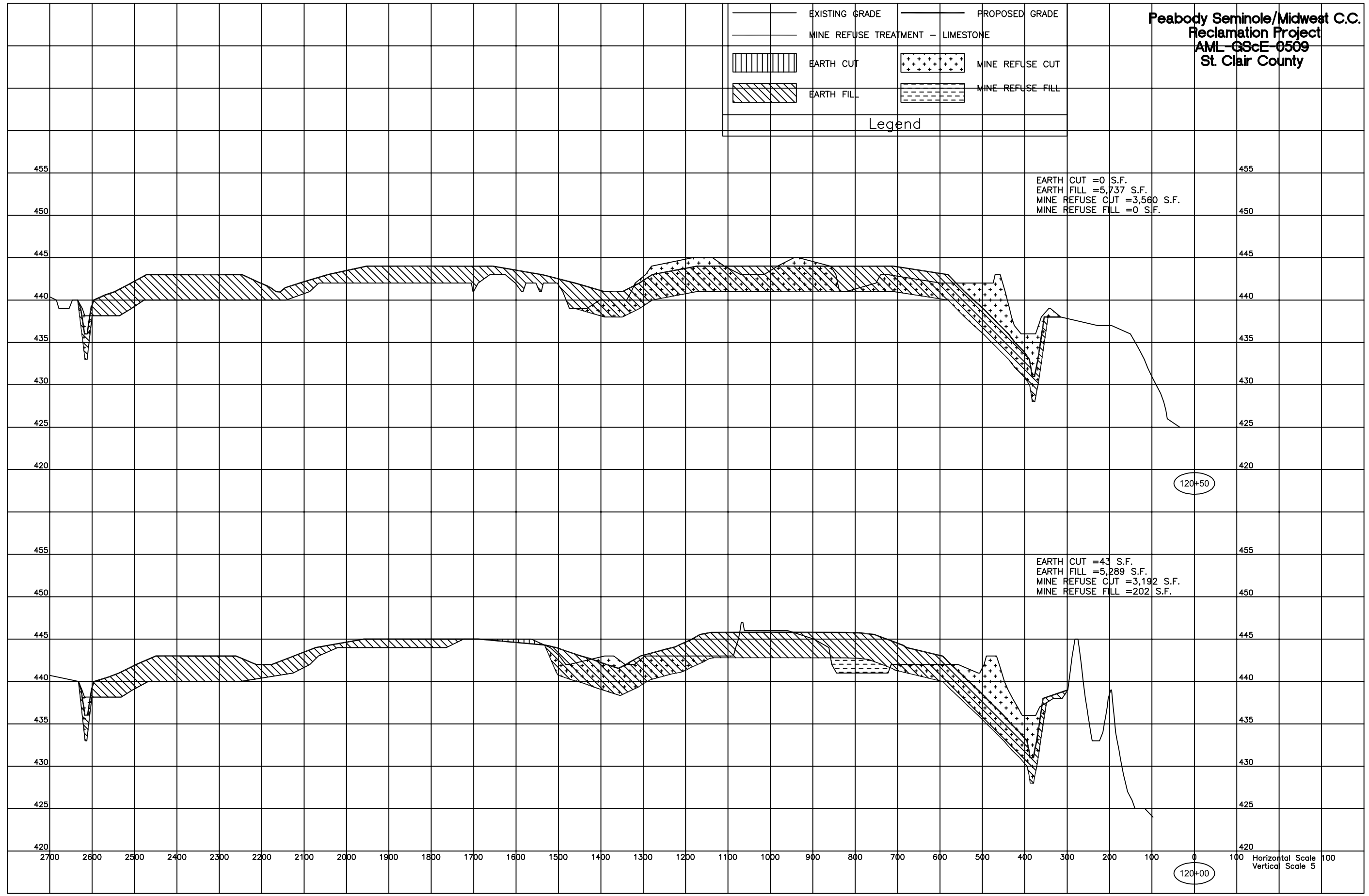
Horizontal Scale 100  
 Vertical Scale 5



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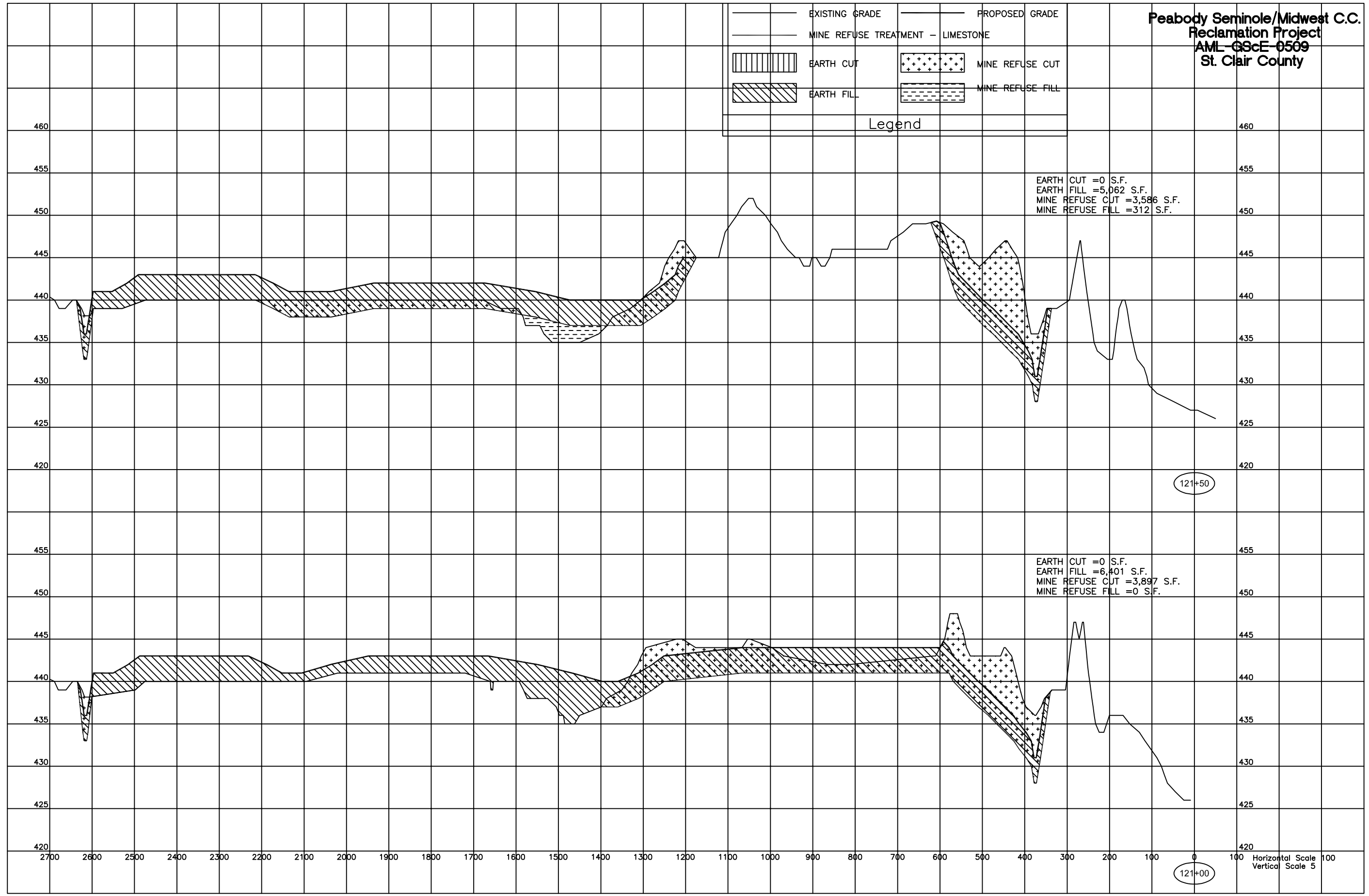
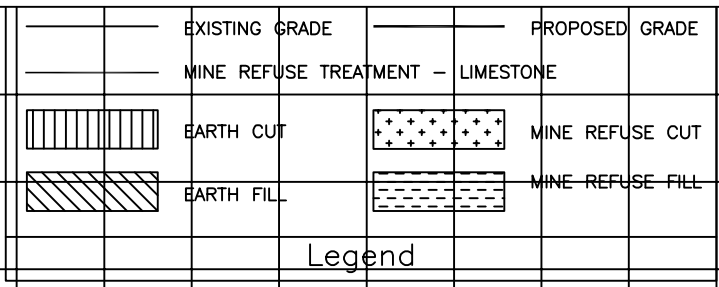


EARTH CUT = 0 S.F.  
EARTH FILL = 5,737 S.F.  
MINE REFUSE CUT = 3,560 S.F.  
MINE REFUSE FILL = 0 S.F.



EARTH CUT = 43 S.F.  
EARTH FILL = 5,289 S.F.  
MINE REFUSE CUT = 3,192 S.F.  
MINE REFUSE FILL = 202 S.F.

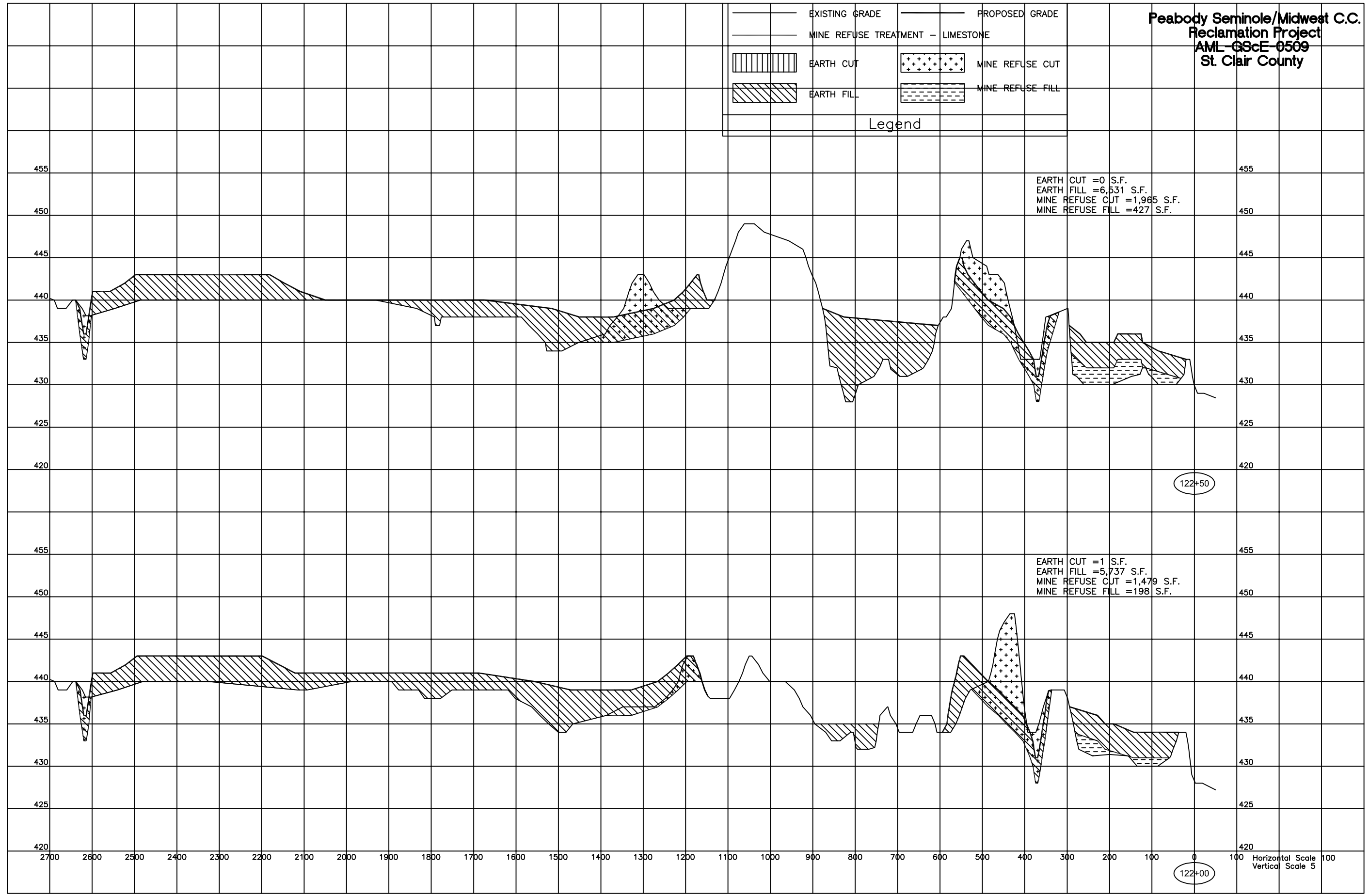
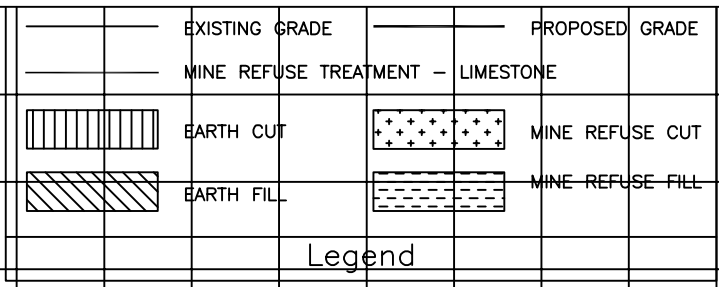
Peabody Seminole/Midwest C.C.  
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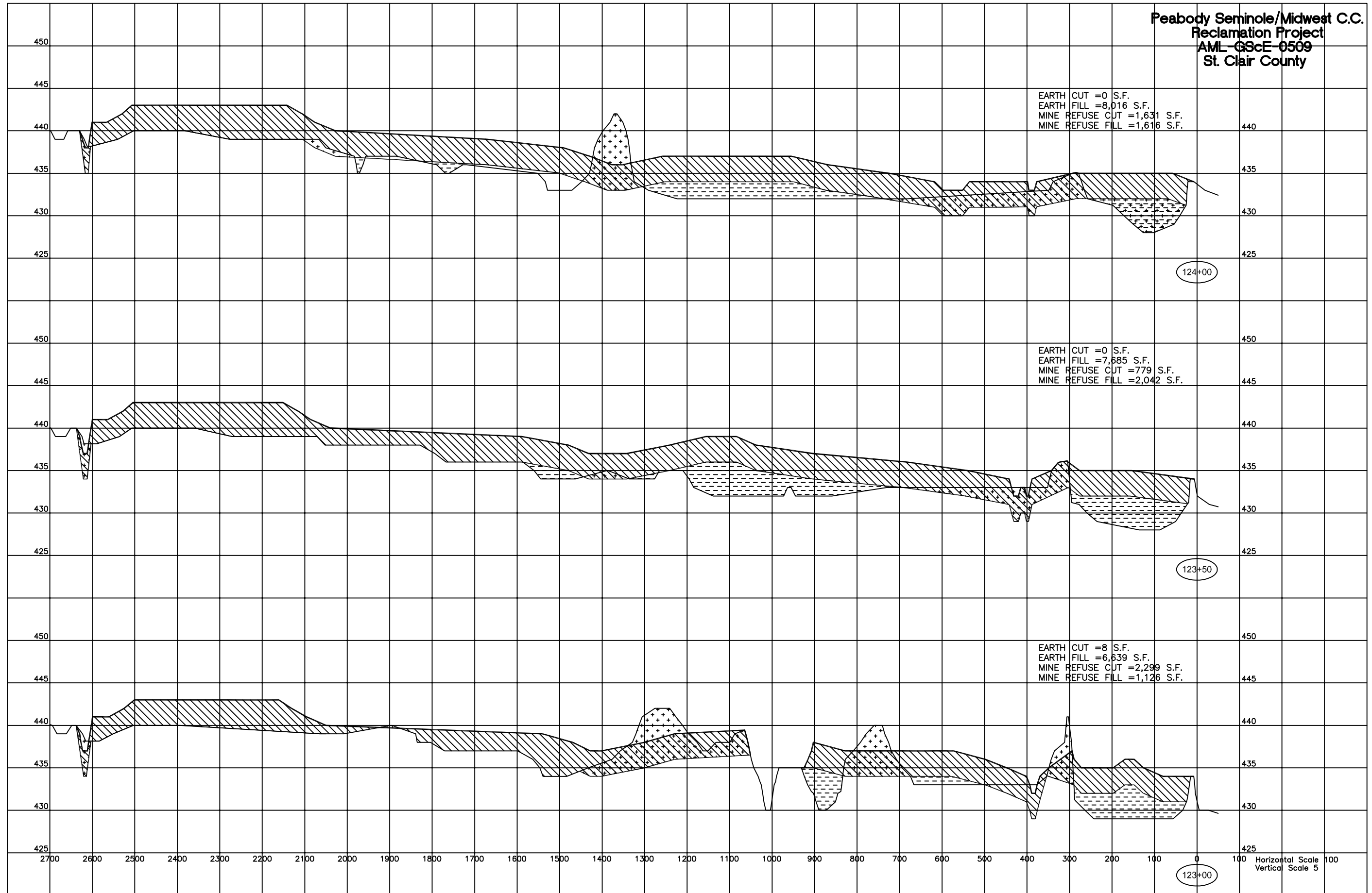
EARTH CUT = 0 S.F.  
 EARTH FILL = 5,062 S.F.  
 MINE REFUSE CUT = 3,586 S.F.  
 MINE REFUSE FILL = 312 S.F.

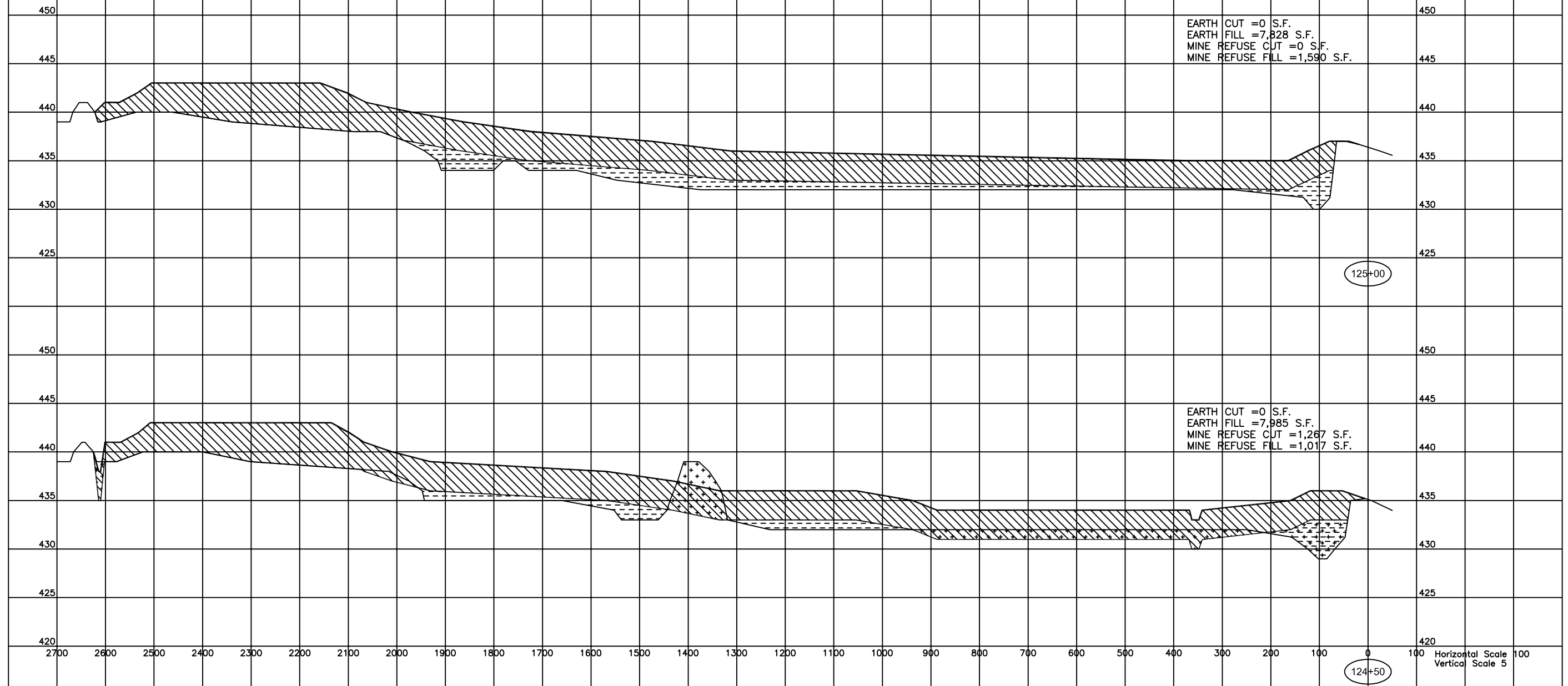
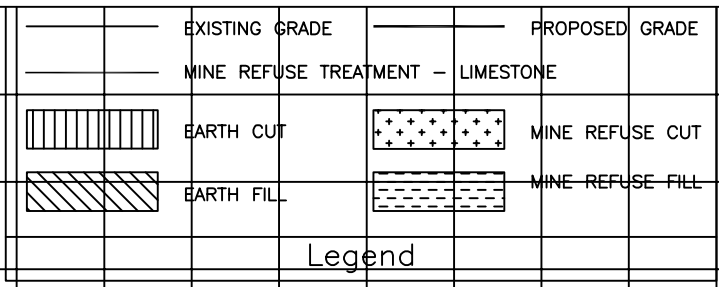
EARTH CUT = 0 S.F.  
 EARTH FILL = 6,401 S.F.  
 MINE REFUSE CUT = 3,897 S.F.  
 MINE REFUSE FILL = 0 S.F.

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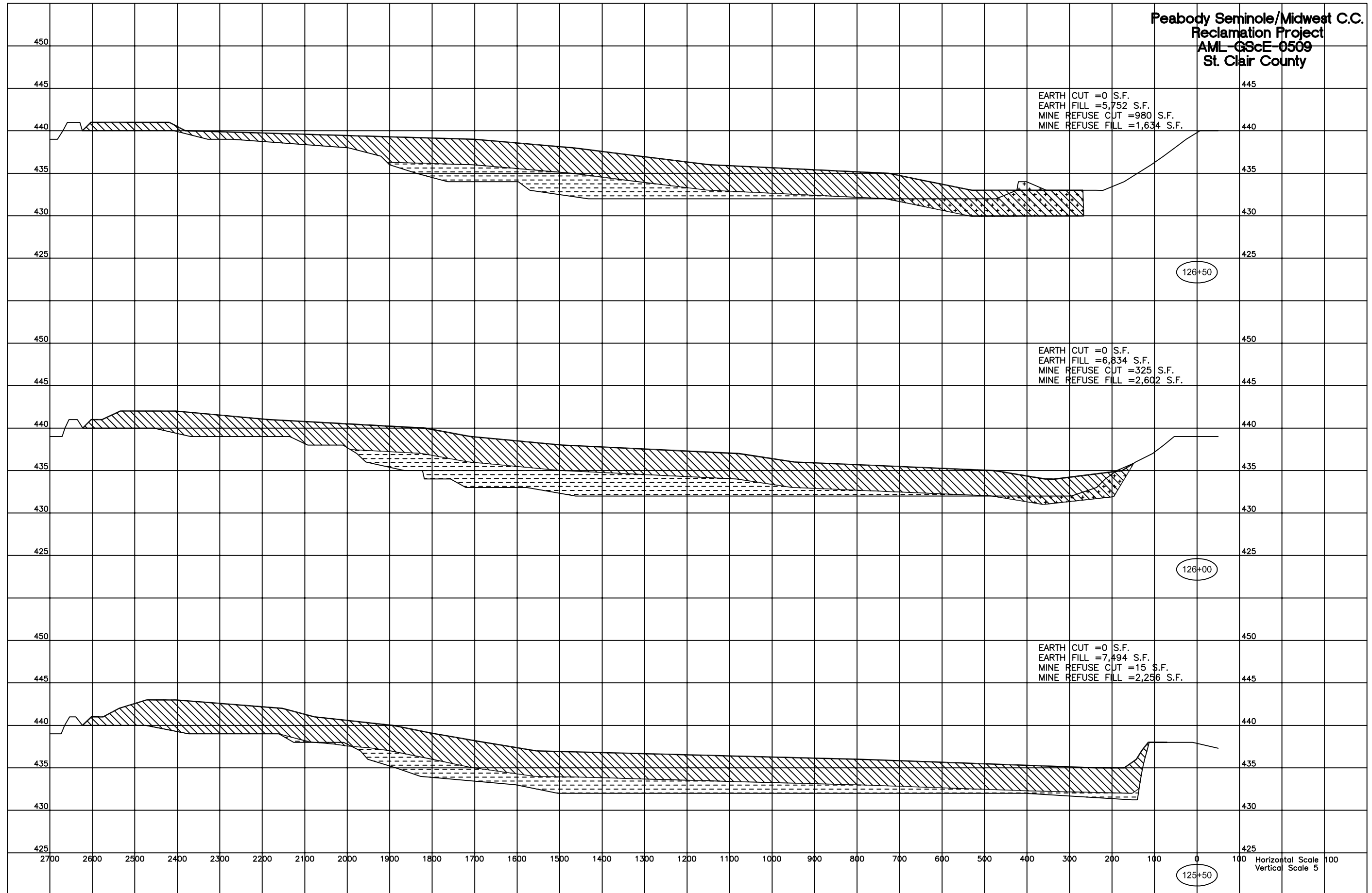


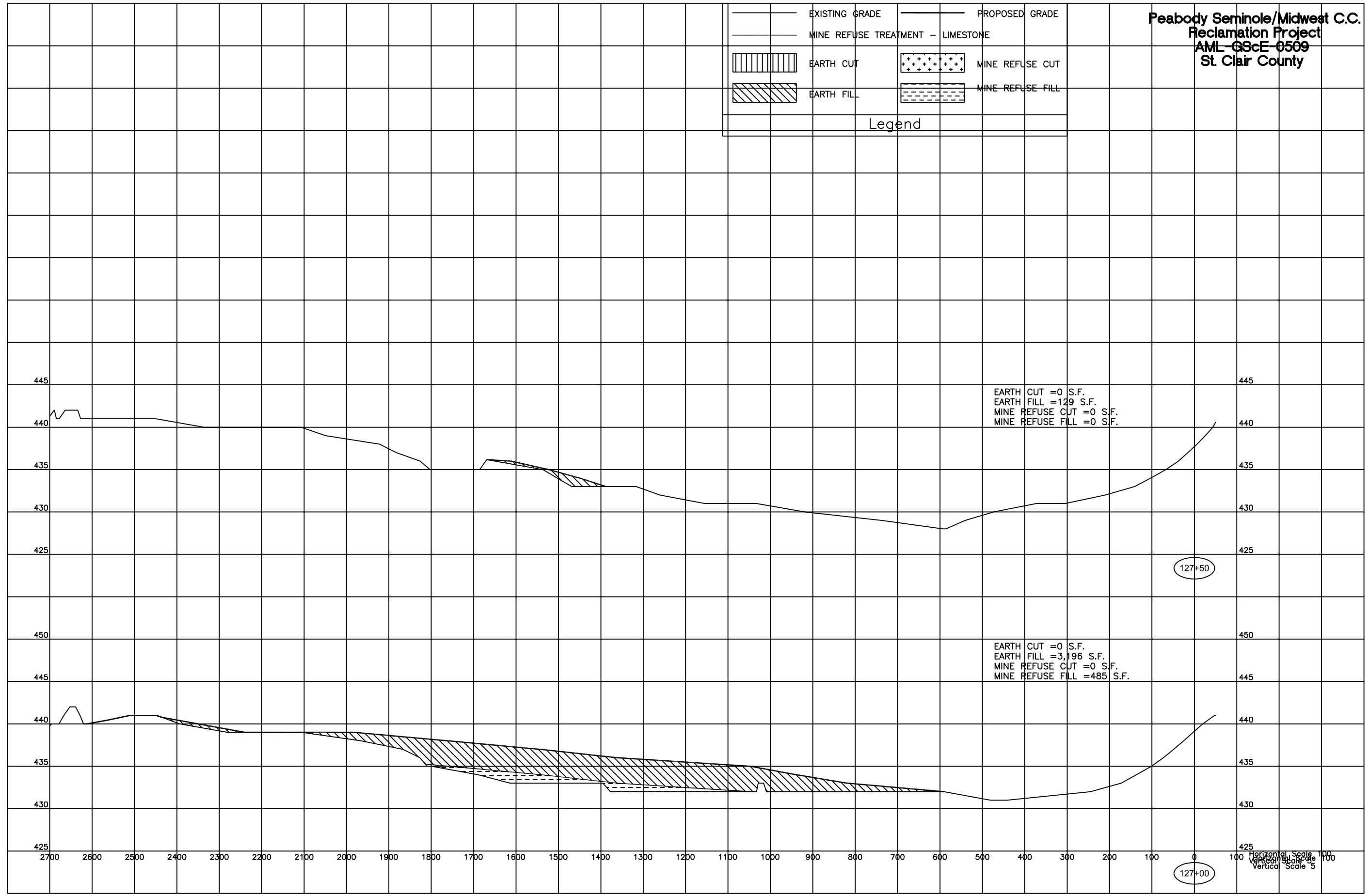
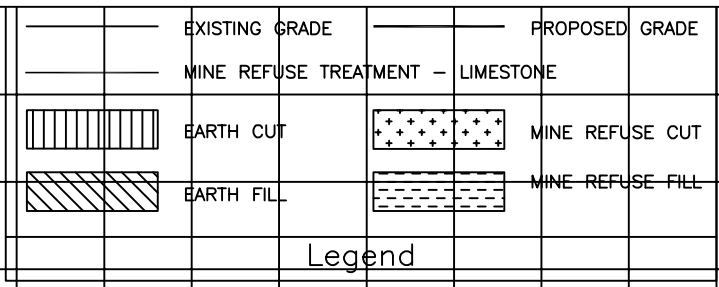


EARTH CUT = 0 S.F.  
 EARTH FILL = 7,828 S.F.  
 MINE REFUSE CUT = 0 S.F.  
 MINE REFUSE FILL = 1,590 S.F.

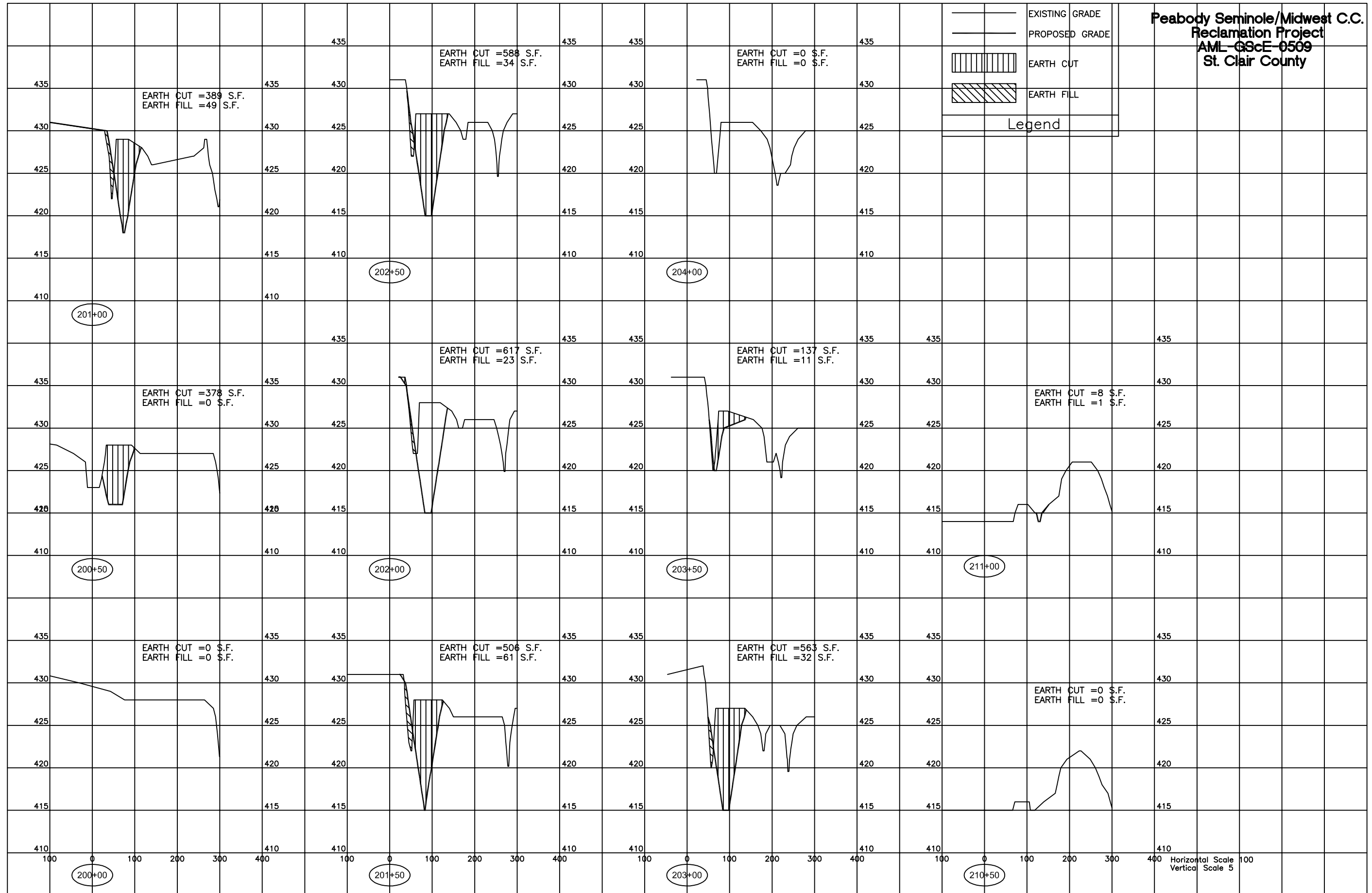
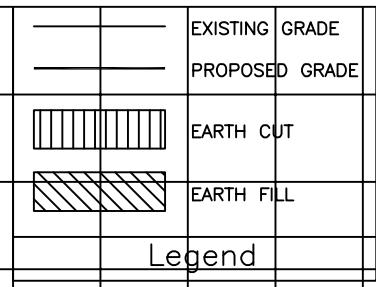
EARTH CUT = 0 S.F.  
 EARTH FILL = 7,985 S.F.  
 MINE REFUSE CUT = 1,267 S.F.  
 MINE REFUSE FILL = 1,017 S.F.

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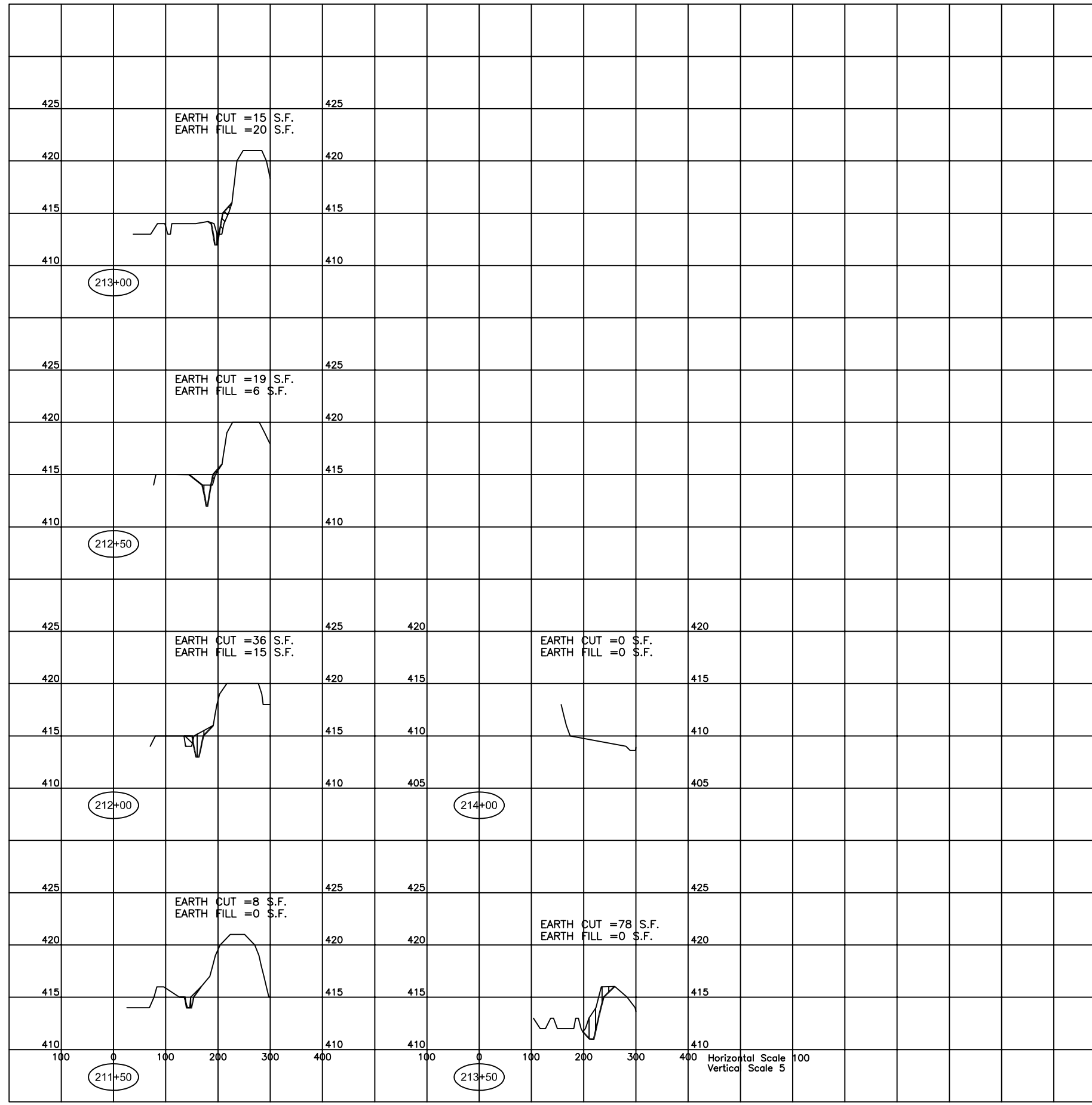
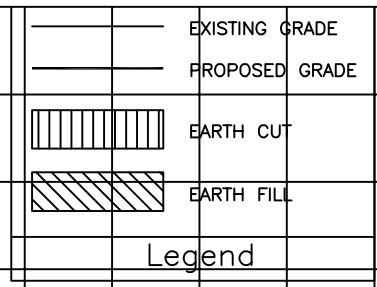




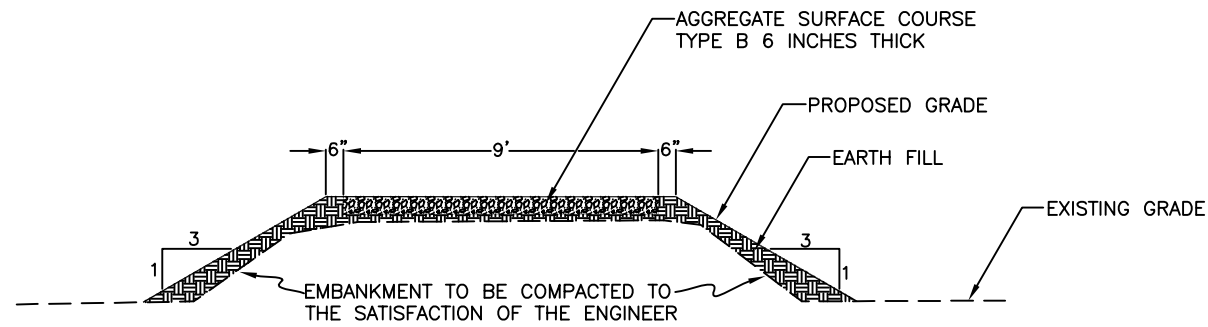
Peabody Seminole/Midwest C.C.  
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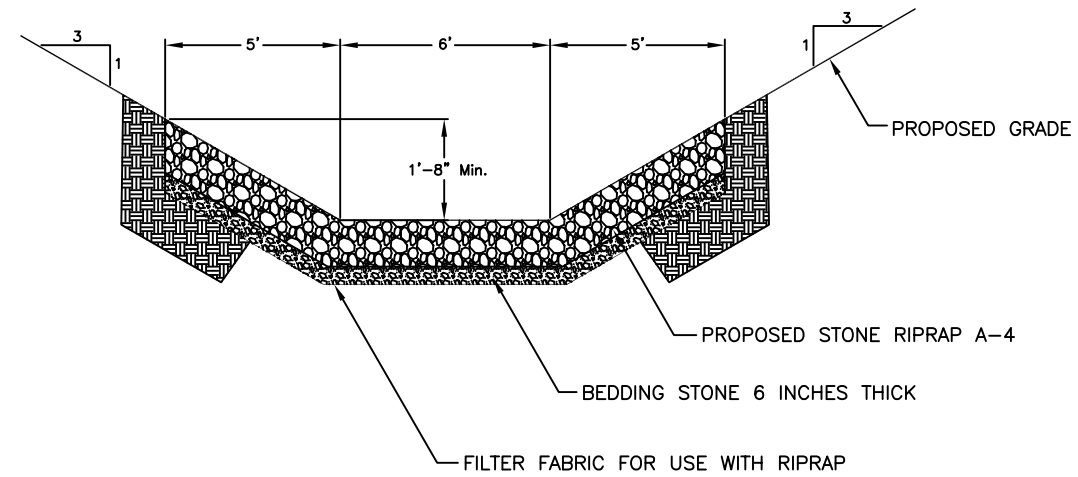




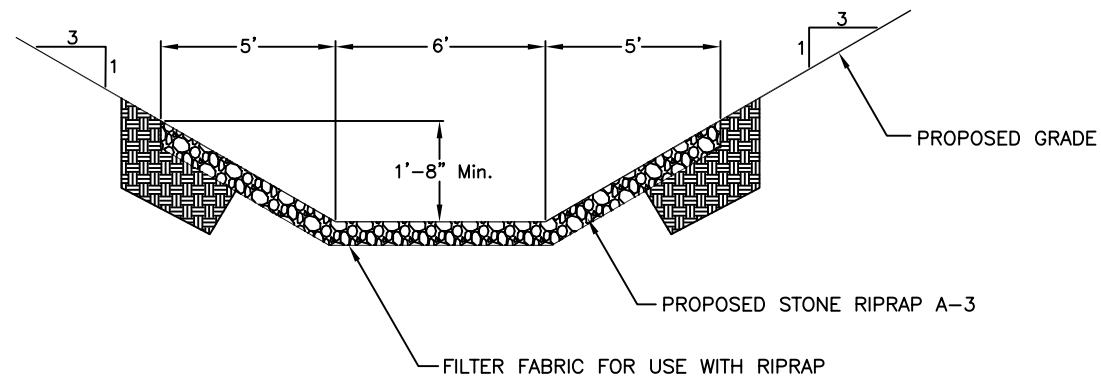
Horizontal Scale 100  
 Vertical Scale 5



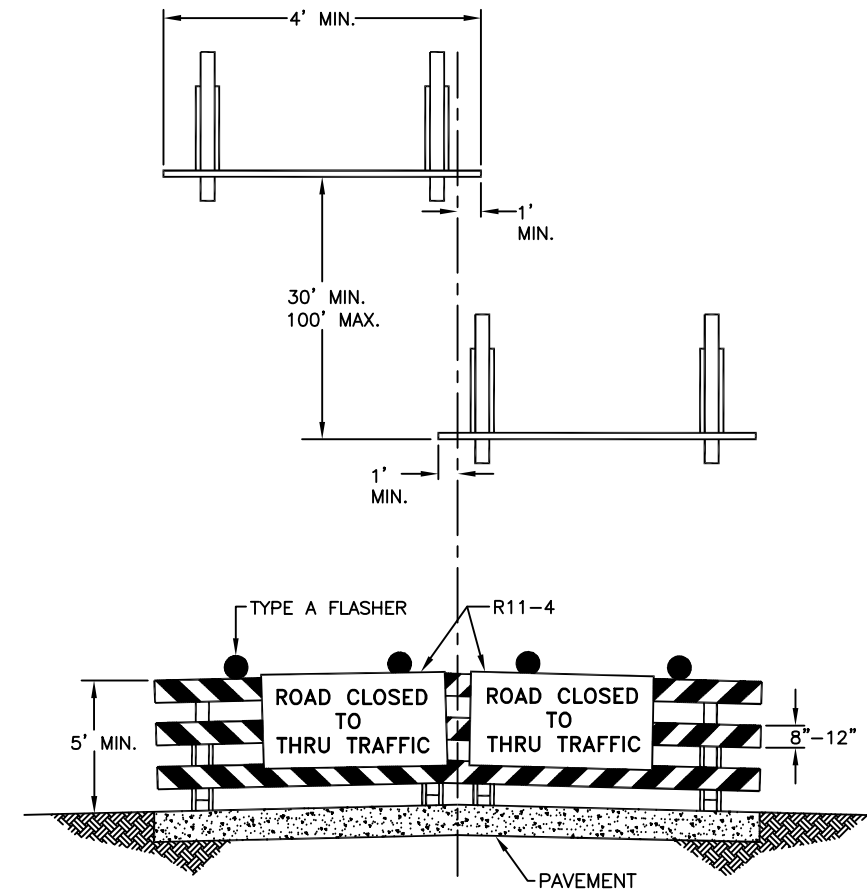
**A** TYPICAL CROSS SECTION - ROAD RECONSTRUCTION  
50 NOT TO SCALE



**C** STONE RIPRAP DITCH A-4  
50 NOT TO SCALE



**B** STONE RIPRAP DITCH A-3  
50 NOT TO SCALE



**E** TYPE III BARRICADE  
50 NOT TO SCALE

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

**D** CONSTRUCTION SIGN DETAIL  
50 NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER

Drawn By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_  
 V.P., M-LF \_\_\_\_\_  
 Date: 1/25/2011