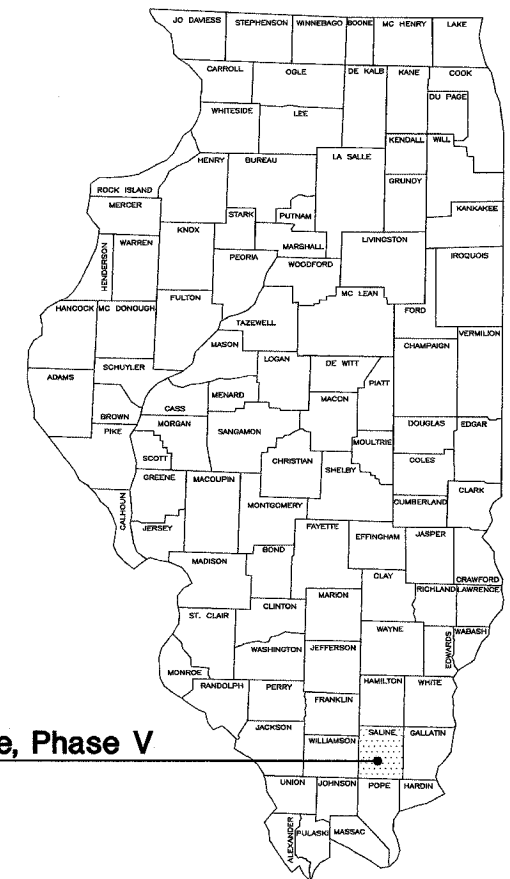


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands

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

Sahara Coal Co. #6 Mine, Phase V
Reclamation Project
AML-GSIE-0317
Saline County
1LR



Sahara Coal Co. #6 Mine, Phase V
Saline County

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M. THURSDAY, MARCH 2, 2006. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE INTERSECTION OF THE CARRIER MILLS ROAD AND THE HAULAGE ROAD. SEE LOCATION MAP ON SHEET 2.

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Sheet Layout and Survey Control Point Data
- 4-12. Proposed and Existing Conditions
- 13-36. Cross Sections, Sta. 0+00 - 42+00
- 37-42. Cross Sections, Sta. 43+00 - 69+00
43. Notes
44. Details
45. Haul Routes

Prepared By IDNR Staff

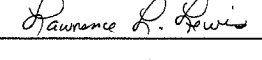
Approved for Bidding:


 Joe Angleton, Director
 Office of Mines and Minerals

Approved By:


 Alfred L. Clayborne, Manager
 AML Division

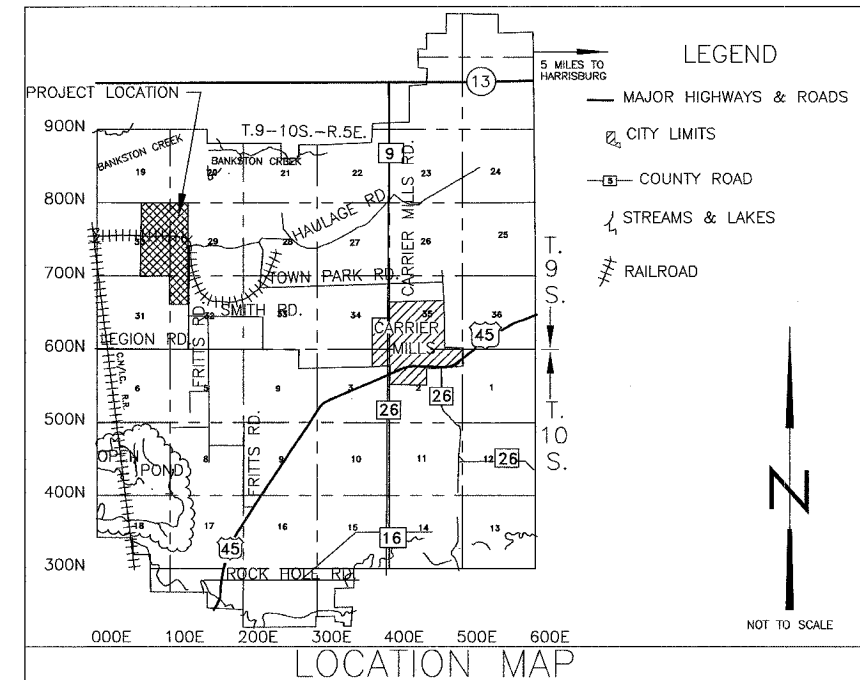
Approved By:


 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	431,785	C.Y.	COMPACTION IN ACCORDANCE WITH SECTION 205
3	Mine Refuse Excavation	202	583,929	C.Y.	
4	Seeding	250	125.0	ACRE	
5	Nitrogen Fertilizer Nutrient	250	25,000	POUND	100 LB/ACRE - TWICE
6	Phosphorus Fertilizer Nutrient	250	17,500	POUND	140 LB/ACRE
7	Potassium Fertilizer Nutrient	250	55,000	POUND	350 LB/AC + 90 LB/AC
8	Agricultural Ground Limestone	250	1,580	TON	10 TON/ACRE; 20 TON/ACRE FOR PILE 1 AREA
9	Mulch, Method 2, Procedure 2	IDOT 251	125.0	ACRE	2 TON/ACRE
10	Mine Refuse Treatment-Limestone	255	5,900.0	TON	100 TON/ACRE
11	Mowing	258	125.0	ACRE	
12	Perimeter Erosion Barrier	280	1,750	FOOT	
13	Stone Riprap, A-4	IDOT 281	1,765	S.Y.	
14	Stone Riprap, A-5	IDOT 281	903	S.Y.	
15	Filter Fabric for Use with Riprap	IDOT 282	1,267	S.Y.	
16	Special Excelsior Blanket	286	20,499	S.Y.	
17	Aggregate Surface Course, Type B	IDOT 402	3,088.0	TON	CA-6
18	Pipe Culvert, 48", PE w/ Smooth Interior	IDOT 542	160	FOOT	Class C, Type 2
19	Fine Aggregate	605	24	C.Y.	Cistern Fill
20	Mobilization	671	1	L.S.	(Maximum 6% of Bid Total)
21	Traffic Control and Protection Standard BLR 22-4	701	1	L.S.	See Sheet 3 for Detail



GENERAL NOTES

Unless otherwise noted on the plans, all disturbed soil 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.

Only the existing roads noted on the plans may be used for construction. See sheet 45 for locations of principal haul routes. Any roads used by the contractor must be maintained during construction to the satisfaction of the engineer. All permanent roads shall be restored to original or better condition upon completion of the work.

The construction limits shall 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/SPECIAL CLEARING-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions. The borrow area has been substantially cleared in a previous project. The contractor is responsible for moving and handling any felled trees in the area and neatly stacking them near the construction limits as directed by the Engineer.

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. The contractor shall comply with the terms of the NPDES discharge permit obtained by the Department.

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 on areas of graded refuse to receive soil cover. 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.

ITEM (unit)	INITIAL APPLICATION SPRING 2007 JAN. 1 - MARCH 15	SECOND APPLICATION SPRING 2007 AUG. 20 - SEPT. 25	MOWING TO BE COMPLETED BY JUNE 30, 2007 OR AS DIRECTED BY ENGINEER	TOTAL QUANTITY
SEEDING (acres)	125.0			125.0
AGRICULTURAL GROUND LIMESTONE (tons)	1,580 (PILE 1 AREA: 20 TON/ACRE) (OTHER AREAS: 10 TON/ACRE)			1,580
NITROGEN FERTILIZER NUTRIENT (pounds)	12,500 (100 LB/ACRE)	12,500 (100 LB/ACRE)		25,000
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	17,500 (140 LB/ACRE)			17,500
POTASSIUM FERTILIZER NUTRIENT (pounds)	43,750 (350 LB/ACRE)	11,250 (90 LB/ACRE)		55,000
MULCH, METHOD 2 PROCEDURE 2 (acres)	125.0 (2 TON/ACRE)			125.0
MOWING (acres)			125.0	125.0

SEE SHEET 43 FOR ADDITIONAL NOTES.

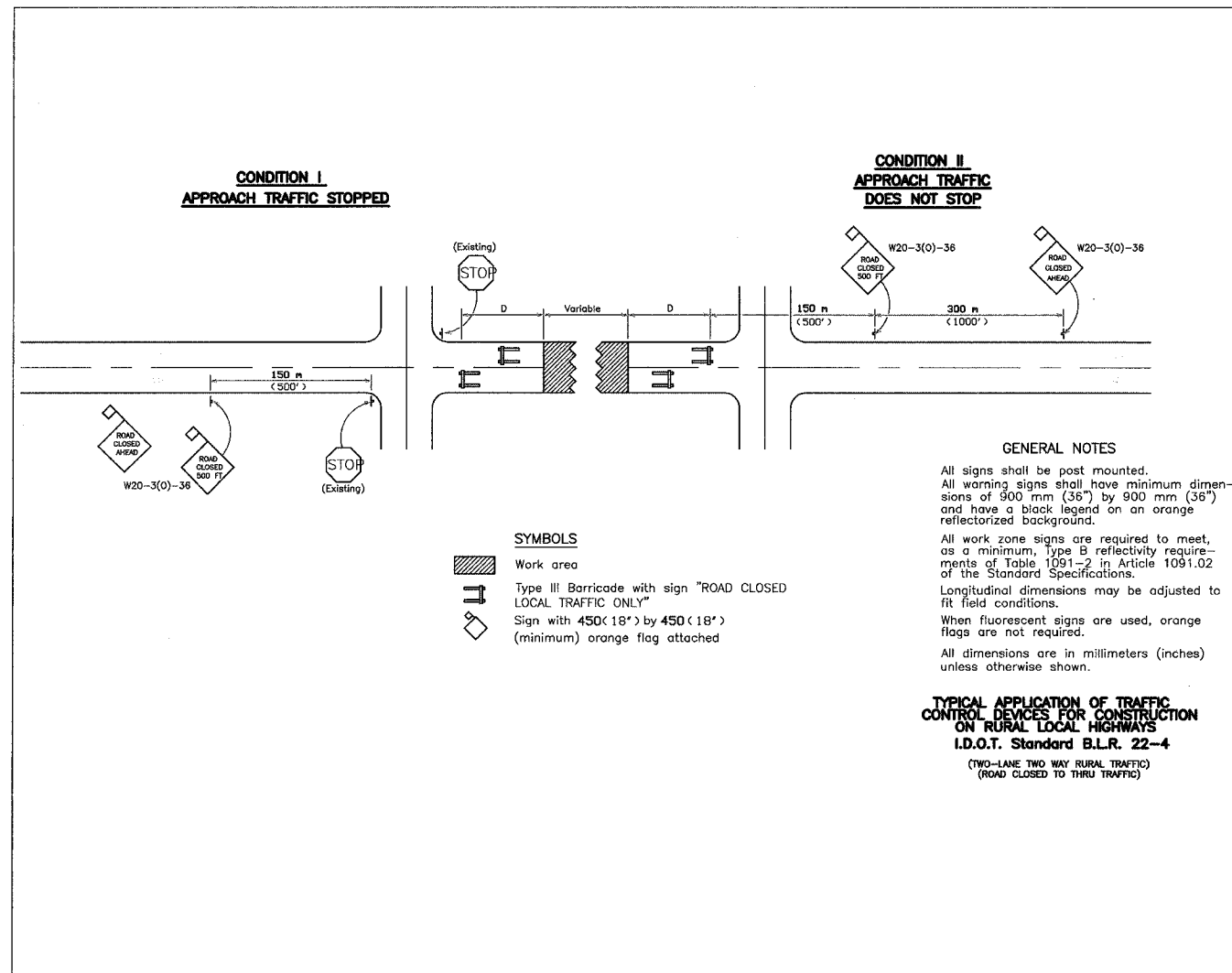
CONTROL POINT DATA

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1018	377,605.78	882,487.45	462.09
1014	379,361.09	882,592.36	438.70

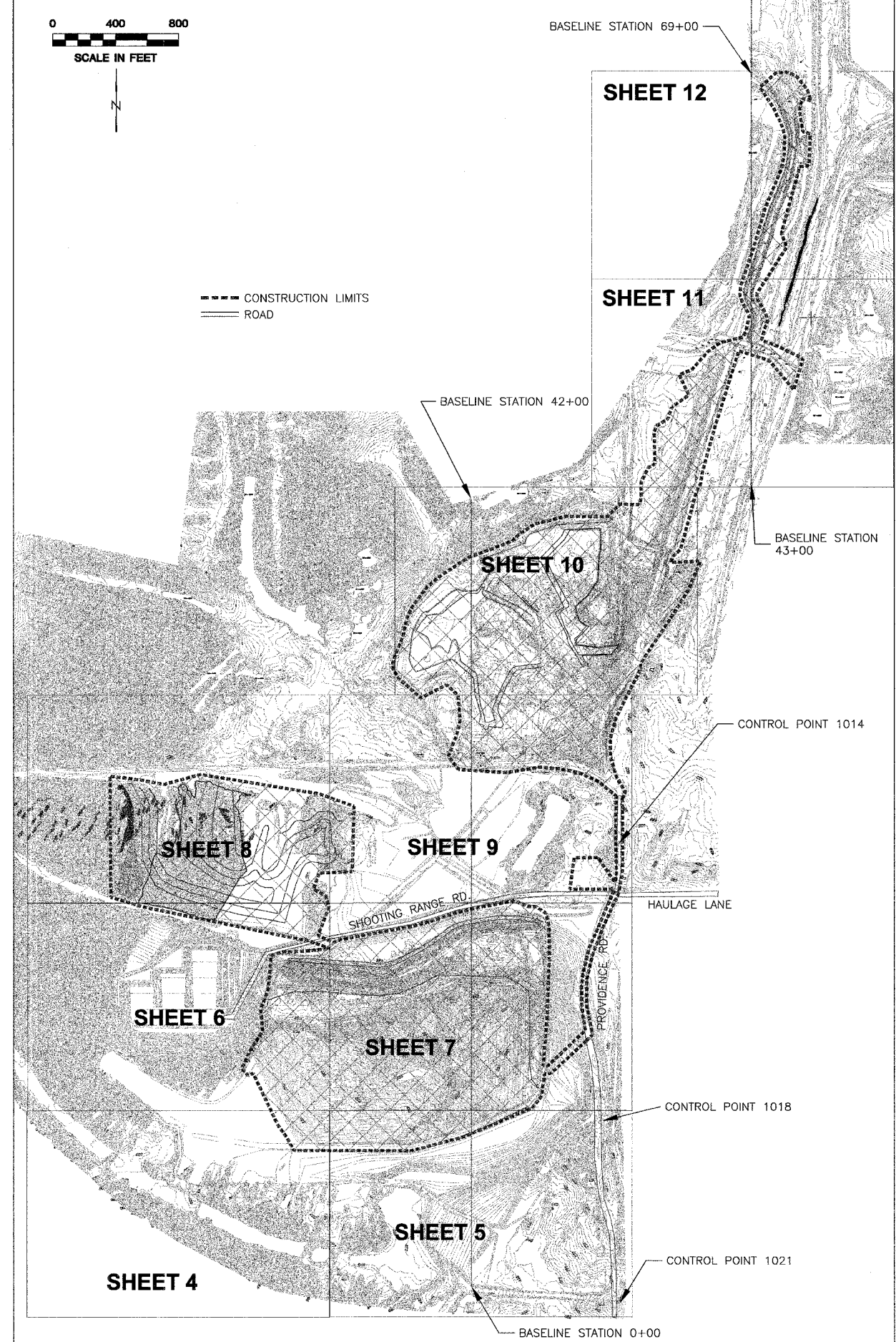
BASELINE DATA

POINT	NORTHING	EASTING
0+00	377,347.38	881,657.57
42+00	381,547.38	881,657.57
43+00	381,647.38	883,435.62
69+00	384,247.38	883,435.62

TRAFFIC CONTROL STANDARD



SHEET LAYOUT

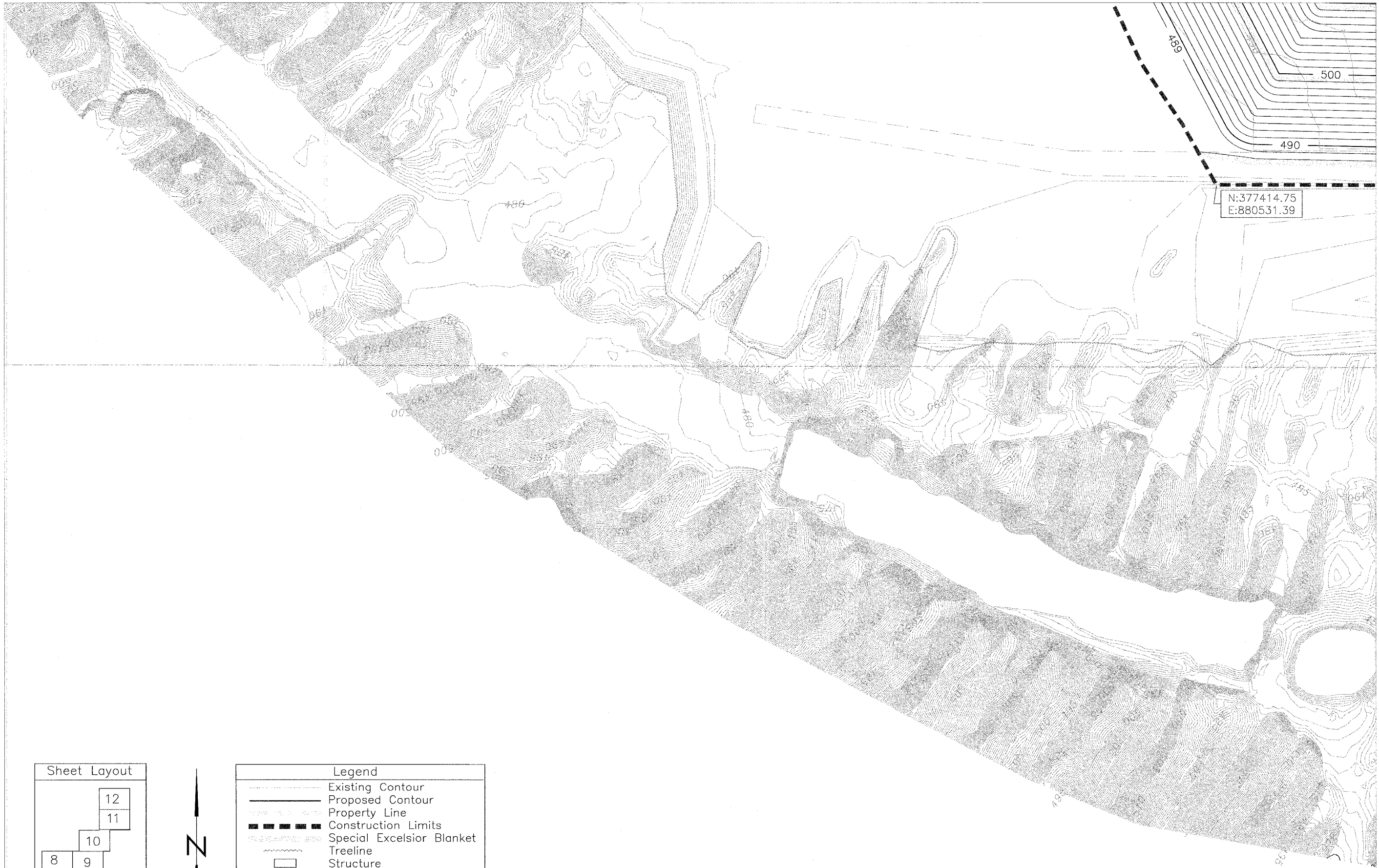


State of Illinois
Department of Natural Resources

Sahara C.C. #6 Phase V
Reclamation Project
AML-GSIE-0317
Saline County

Drawn By: *J.P.*
Checked By: *J.P.*
Date: 11-2005
Date: 01-06
Date: 2/19/06

SHEET LAYOUT &
CONTROL POINTS
3 of 45



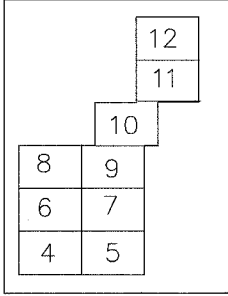
State of Illinois
Department of Natural Resources

Sahara C.C. #6, Phase V
Reclamation Project
AML-GSIE-0317
Saline County

Drawn By : M.T. _____
Checked By : *r.f.* _____
Date : 11/05
Date : 01/06
Date : 2/9/06

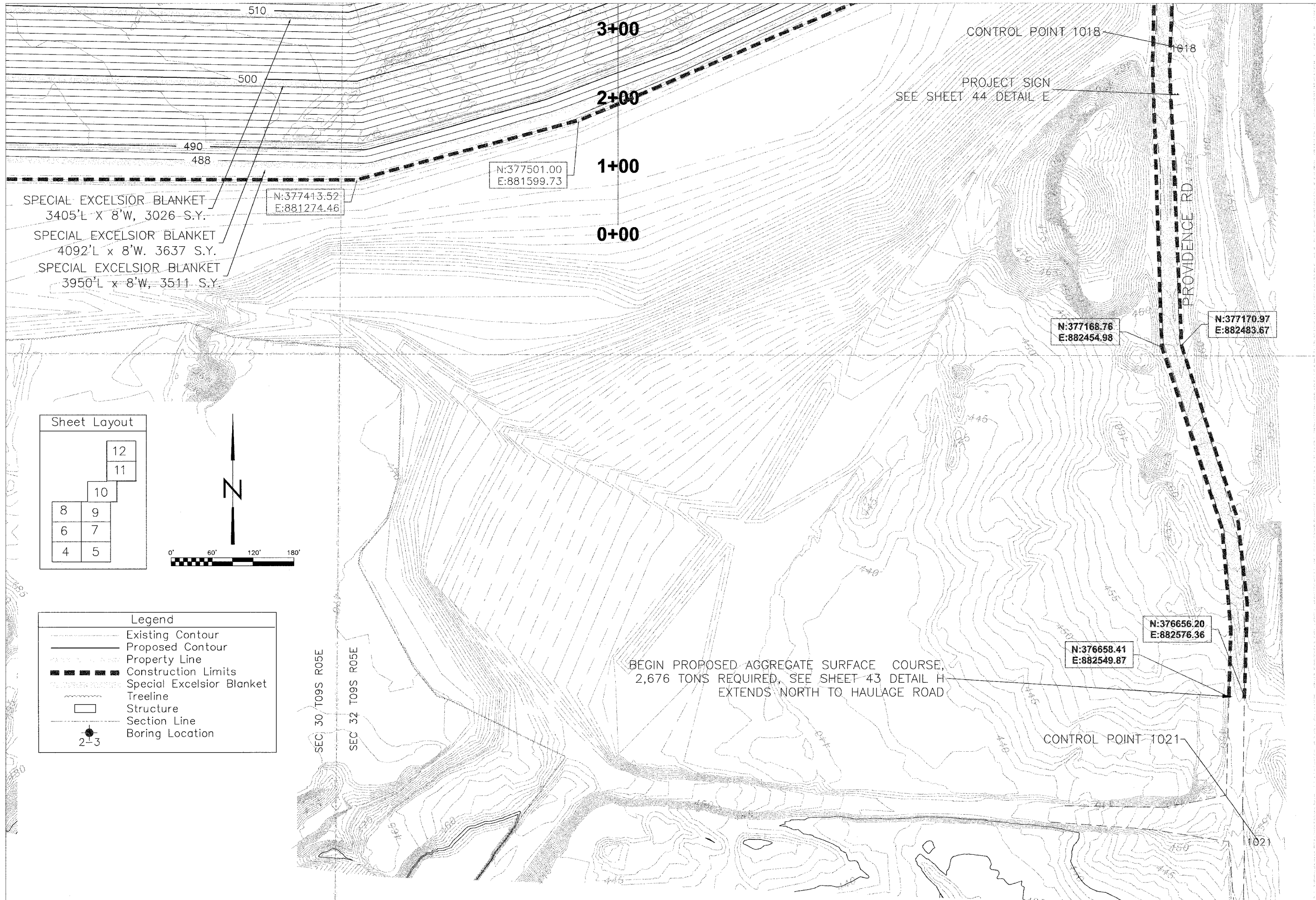
PROPOSED AND EXISTING
CONDITIONS
SHEET 4 OF 45

Sheet Layout



Legend	
	Existing Contour
	Proposed Contour
	Property Line
	Construction Limits
	Special Excelsior Blanket
	Treeline
	Structure
	Section Line
	Boring Location

2-3



SPECIAL EXCELSIOR BLANKET
3405'L x 8'W, 3026 S.Y.
SPECIAL EXCELSIOR BLANKET
4092'L x 8'W, 3637 S.Y.
SPECIAL EXCELSIOR BLANKET
3950'L x 8'W, 3511 S.Y.

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E:881274.46

N:377501.00
E:881599.73

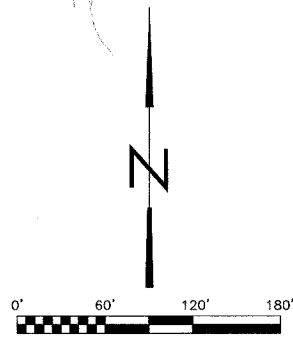
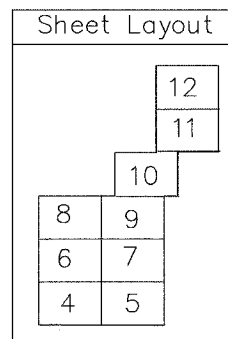
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E:882454.98

N:377170.97
E:882483.67

N:376656.20
E:882576.36

N:376658.41
E:882549.87

BEGIN PROPOSED AGGREGATE SURFACE COURSE,
2,676 TONS REQUIRED, SEE SHEET 43 DETAIL H
EXTENDS NORTH TO HAULAGE ROAD



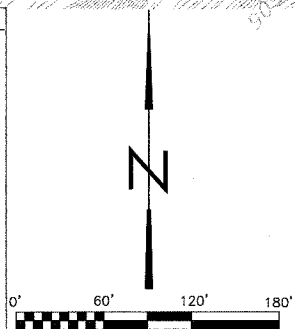
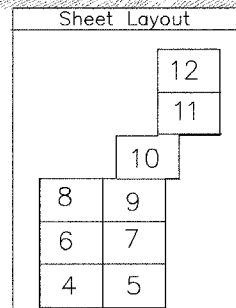
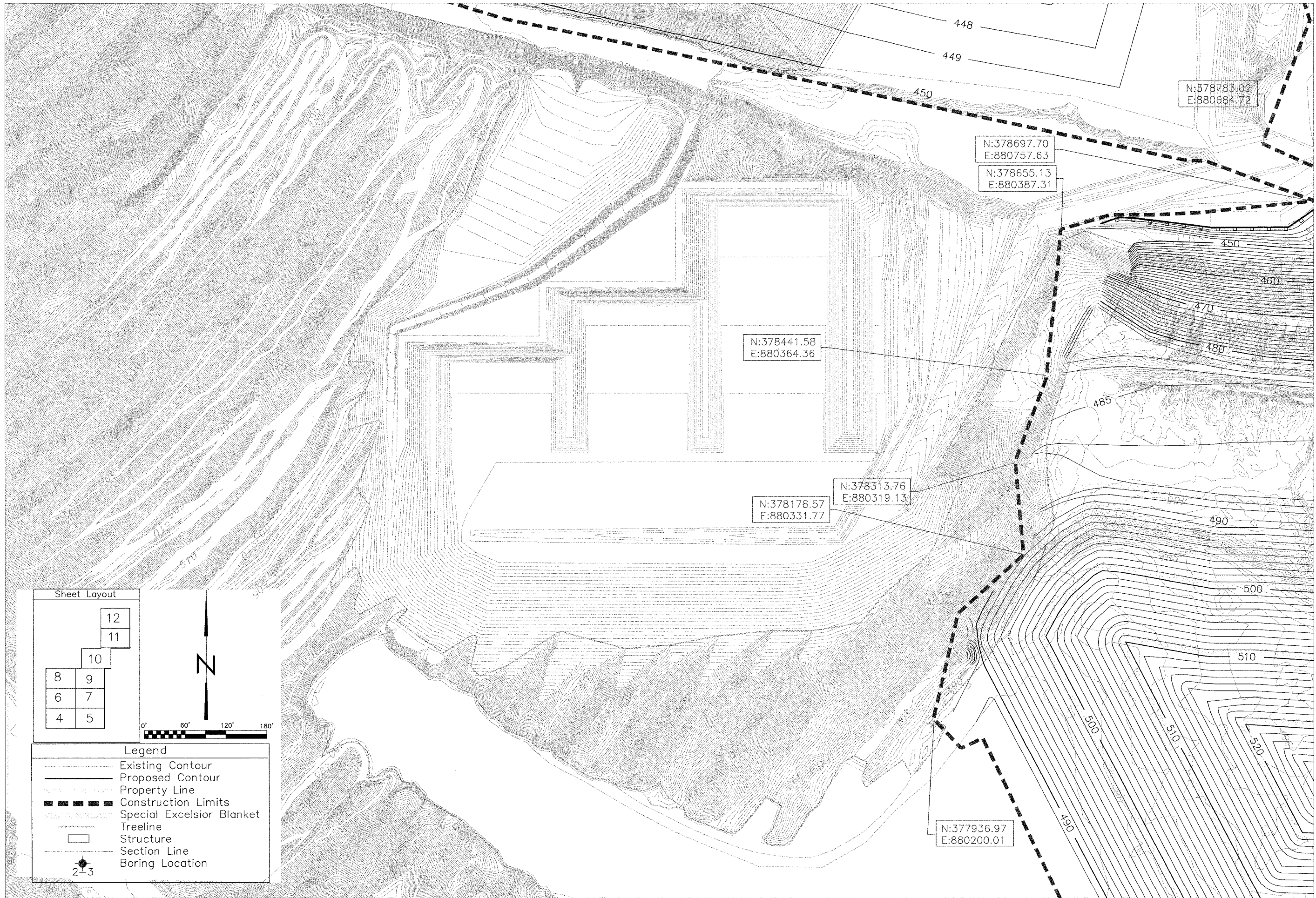
Legend

	Existing Contour
	Proposed Contour
	Property Line
	Construction Limits
	Special Excelsior Blanket
	Treeline
	Structure
	Section Line
	Boring Location

SEC 30 T09S R05E

SEC 32 T09S R05E

Drawn By: M.T. *ml* Date: 11/05
Checked By: *z/m/c* *z/m/c*



Legend

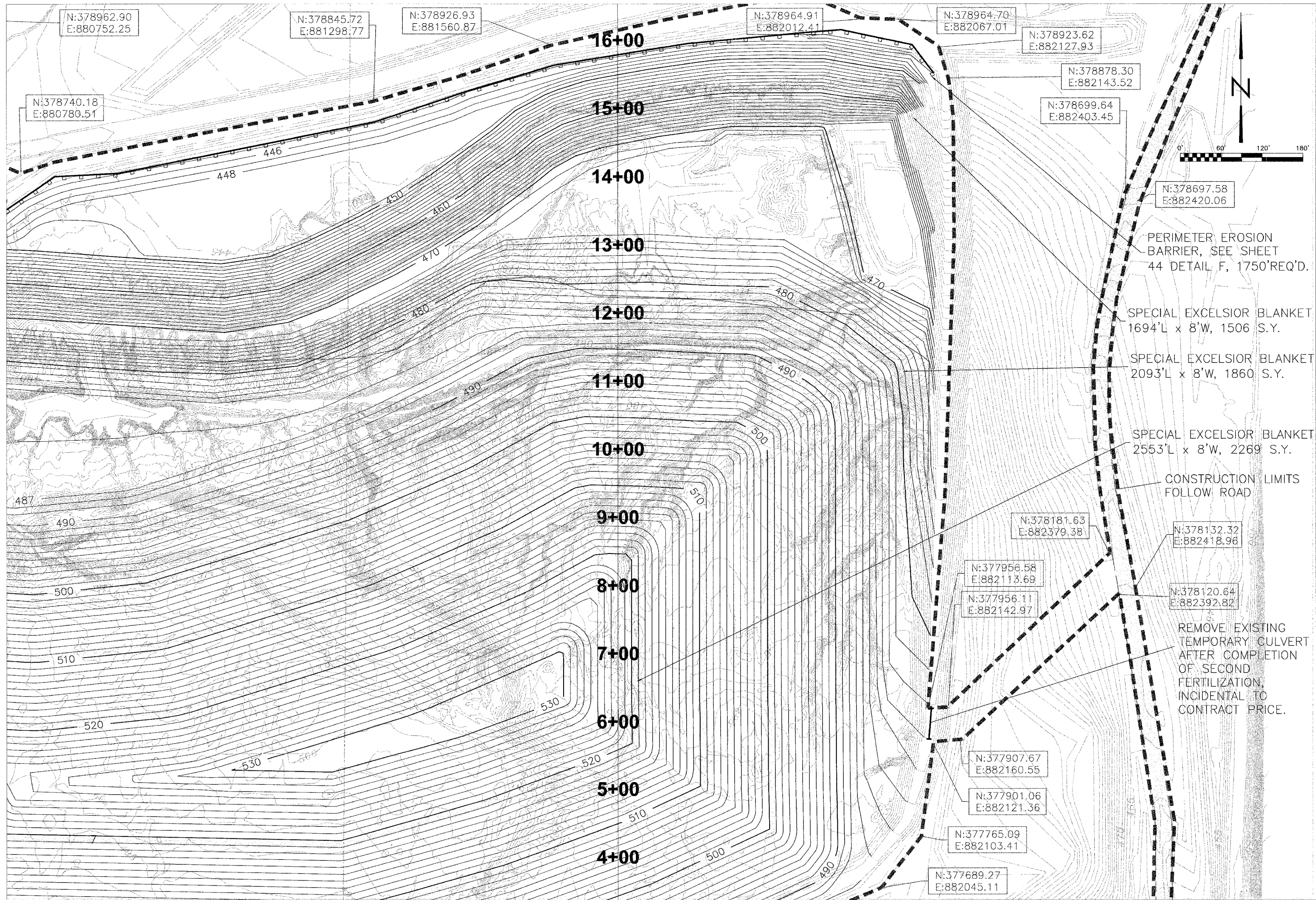
	Existing Contour
	Proposed Contour
	Property Line
	Construction Limits
	Special Excelsior Blanket
	Treeline
	Structure
	Section Line
	Boring Location

State of Illinois
Department of Natural Resources

Sahara C.C. #6, Phase V
Reclamation Project
AML-GSIE-0317
Saline County

Drawn By : M.T. _____
Date : 11/06
Checked By : *af* _____
af _____

PROPOSED AND EXISTING
CONDITIONS
SHEET 6 OF 45



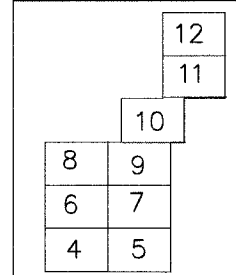
State of Illinois
Department of Natural Resources

Sahara C.C. #6, Phase V
Reclamation Project
AML-GSIE-0317
Saline County

Drawn By: M.T. *MT*
Checked By: *AP*
Date: 11/05
11/06
2/4/06

PROPOSED AND EXISTING
CONDITIONS
SHEET 7 OF 45

Sheet Layout

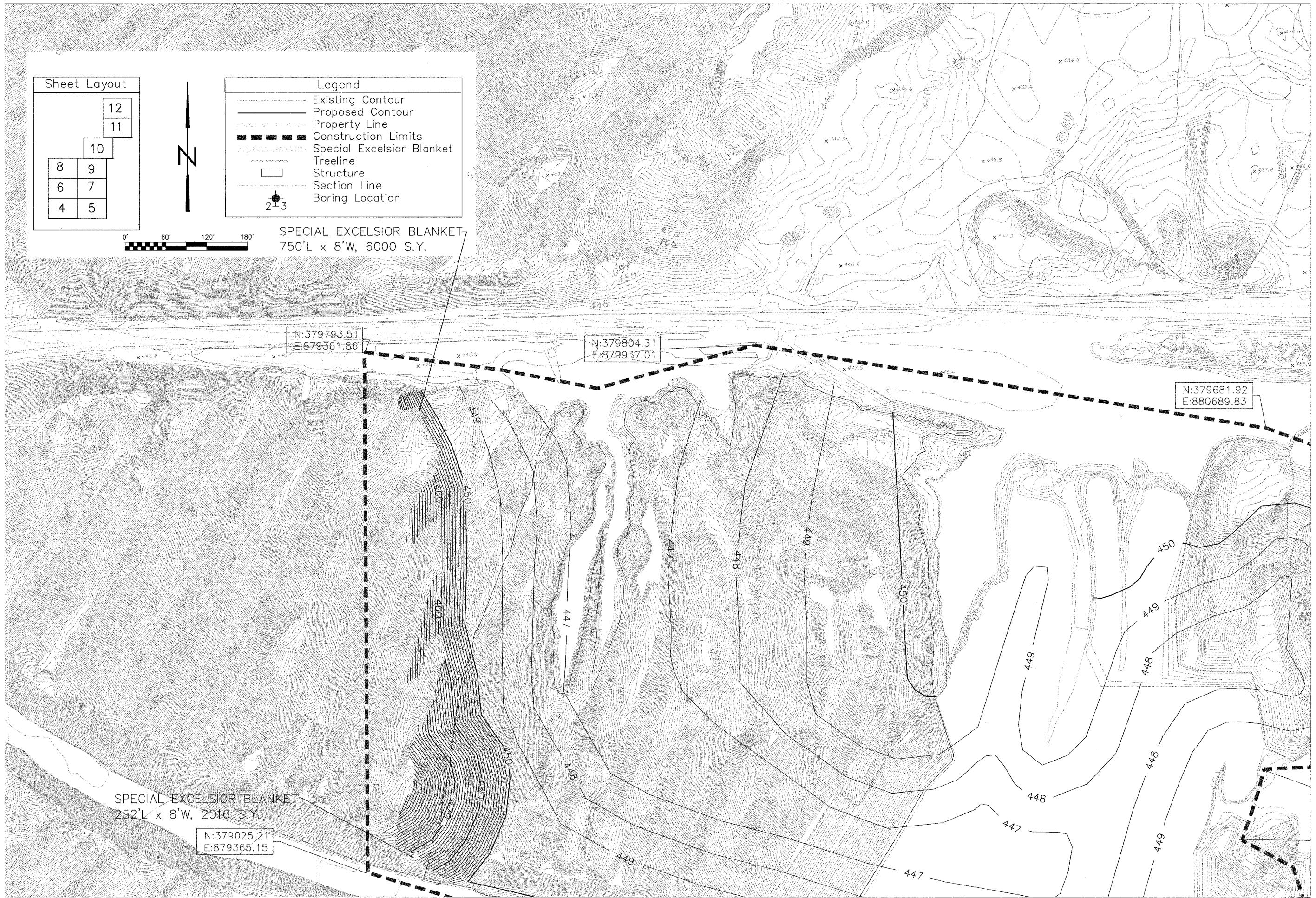


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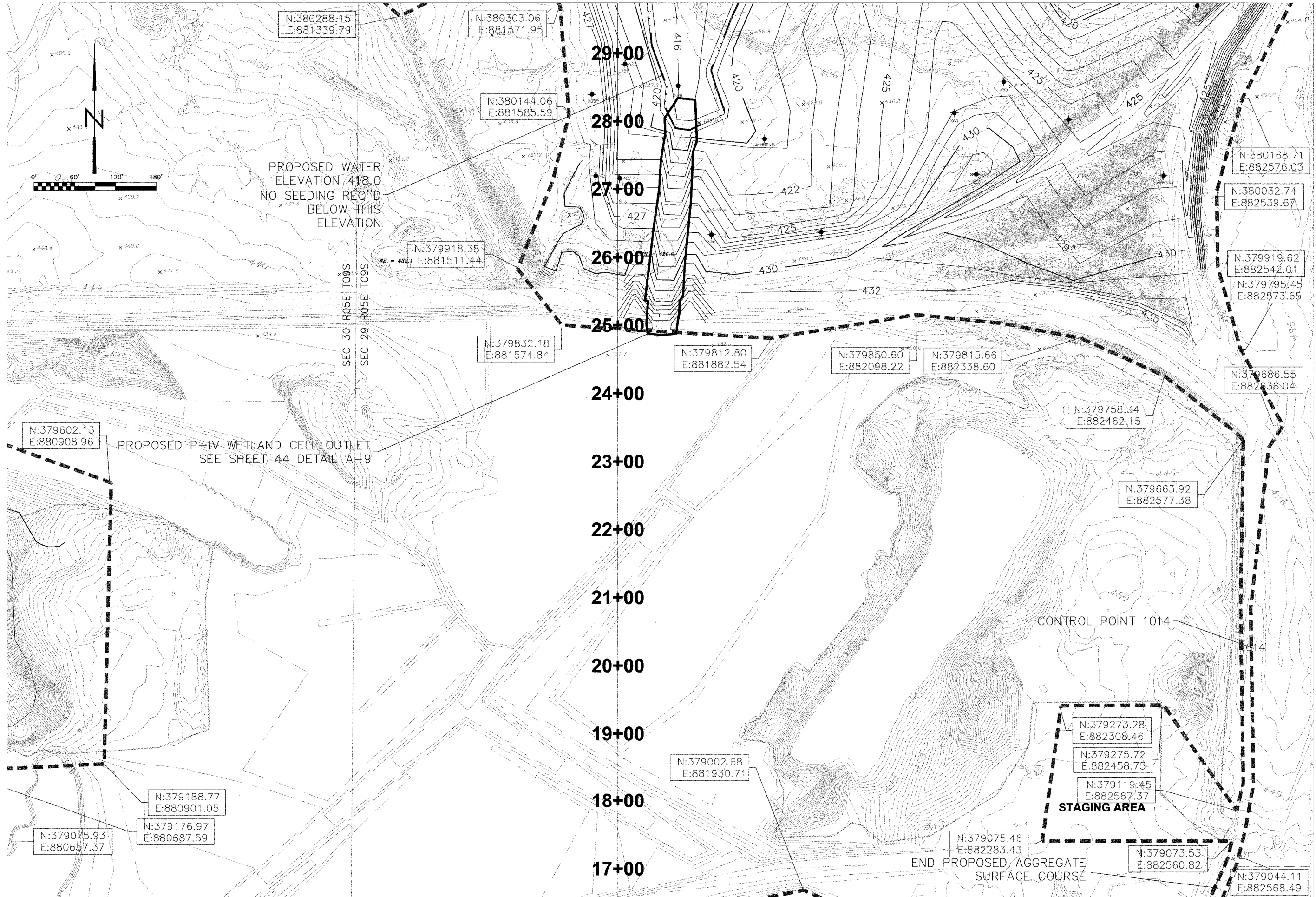
- Existing Contour
- Proposed Contour
- Property Line
- Construction Limits
- Special Excelsior Blanket
- Treeline
- Structure
- Section Line
- Boring Location

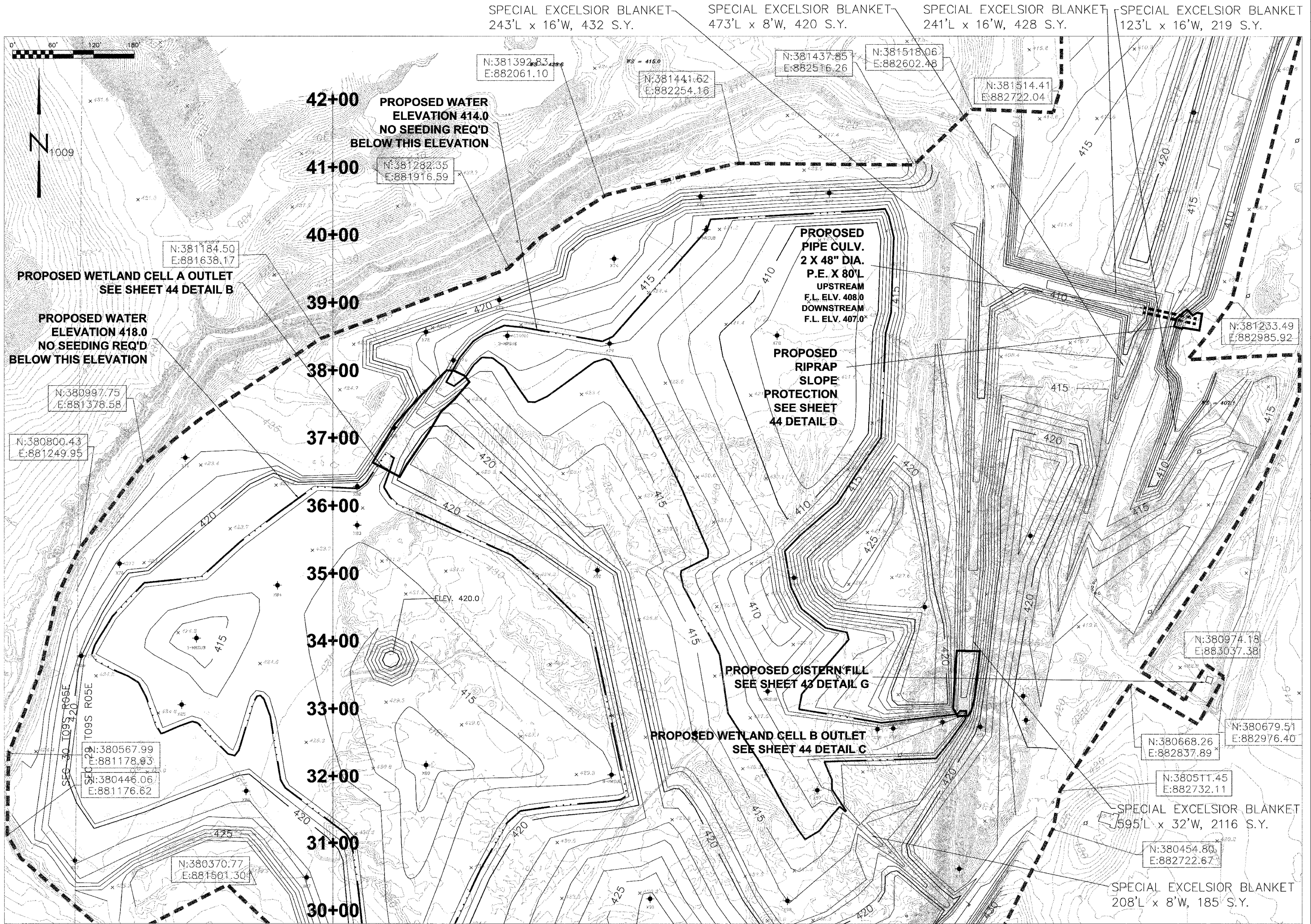
SPECIAL EXCELSIOR BLANKET
750'L x 8'W, 6000 S.Y.

SPECIAL EXCELSIOR BLANKET
252'L x 8'W, 2016 S.Y.



Drawn By:	M.T.	Date:	11/06
Checked By:	x.f.	Date:	1/10
	A.P.	Date:	2/9/06





SPECIAL EXCELSIOR BLANKET
243'L x 16'W, 432 S.Y.

SPECIAL EXCELSIOR BLANKET
473'L x 8'W, 420 S.Y.

SPECIAL EXCELSIOR BLANKET
241'L x 16'W, 428 S.Y.

SPECIAL EXCELSIOR BLANKET
123'L x 16'W, 219 S.Y.

42+00 PROPOSED WATER
ELEVATION 414.0
NO SEEDING REQ'D
BELOW THIS ELEVATION

41+00 N:381282.35
E:881916.59

40+00

N:381184.50
E:881638.17

PROPOSED WETLAND CELL A OUTLET
SEE SHEET 44 DETAIL B

PROPOSED WATER
ELEVATION 418.0
NO SEEDING REQ'D
BELOW THIS ELEVATION

N:380997.75
E:881378.58

39+00

38+00

37+00

N:380800.43
E:881249.95

36+00

35+00

34+00

33+00

32+00

N:380567.99
E:881178.93

N:380446.06
E:881176.62

N:380370.77
E:881501.30

31+00

30+00

PROPOSED
PIPE CULV.
2 X 48" DIA.
P.E. X 80'L
UPSTREAM
F.L. ELV. 408.0
DOWNSTREAM
F.L. ELV. 407.0'

PROPOSED
RIPRAP
SLOPE
PROTECTION
SEE SHEET
44 DETAIL D

PROPOSED CISTERN FILL
SEE SHEET 43 DETAIL G

PROPOSED WETLAND CELL B OUTLET
SEE SHEET 44 DETAIL C

N:381233.49
E:882985.92

N:380974.18
E:883037.38

N:380679.51
E:882976.40

N:380511.45
E:882732.11

SPECIAL EXCELSIOR BLANKET
595'L x 32'W, 2116 S.Y.

N:380454.80
E:882722.67

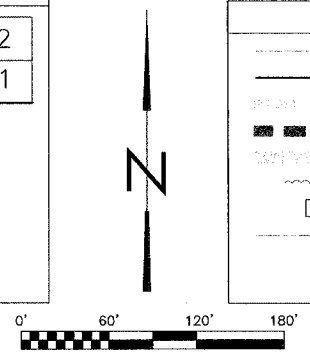
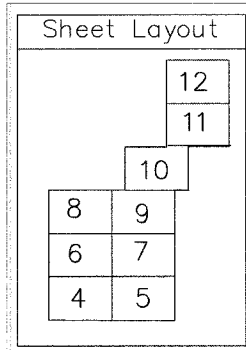
SPECIAL EXCELSIOR BLANKET
208'L x 8'W, 185 S.Y.

State of Illinois
Department of Natural Resources

Sahara C.C. #6, Phase V
Reclamation Project
AML-GSIE-0317
Saline County

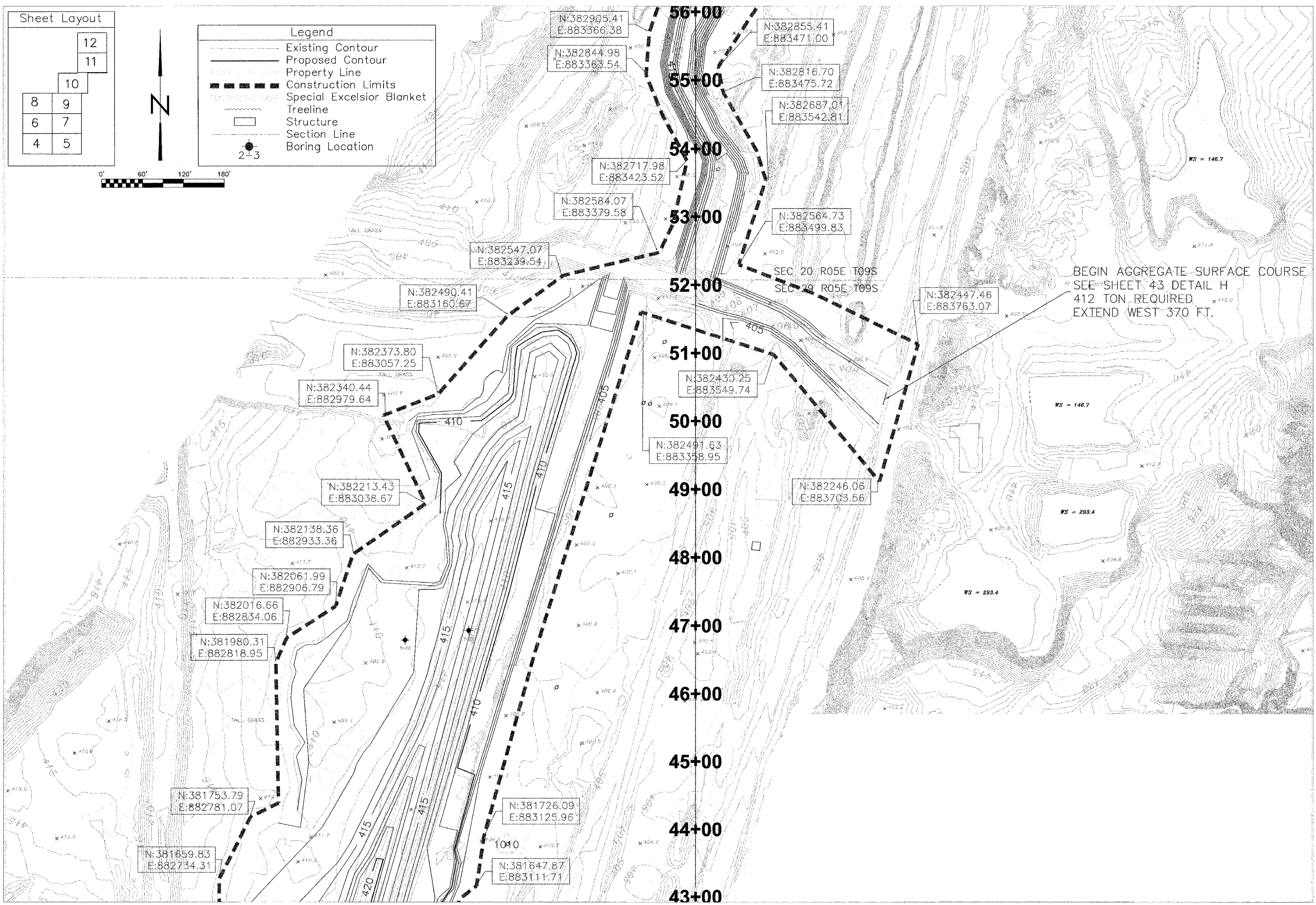
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Checked By: J.P. Date: 01/06
J.P. Date: 2/9/06

PROPOSED AND EXISTING
CONDITIONS
SHEET 10 OF 45



Legend

- Existing Contour
- Proposed Contour
- Property Line
- Construction Limits
- Special Excelsior Blanket
- Treeline
- Structure
- Section Line
- Boring Location



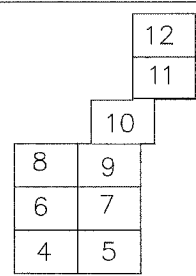
State of Illinois
Department of Natural Resources

Sahara C.C. #6, Phase V
Reclamation Project
AML-GSIE-0317
Saline County

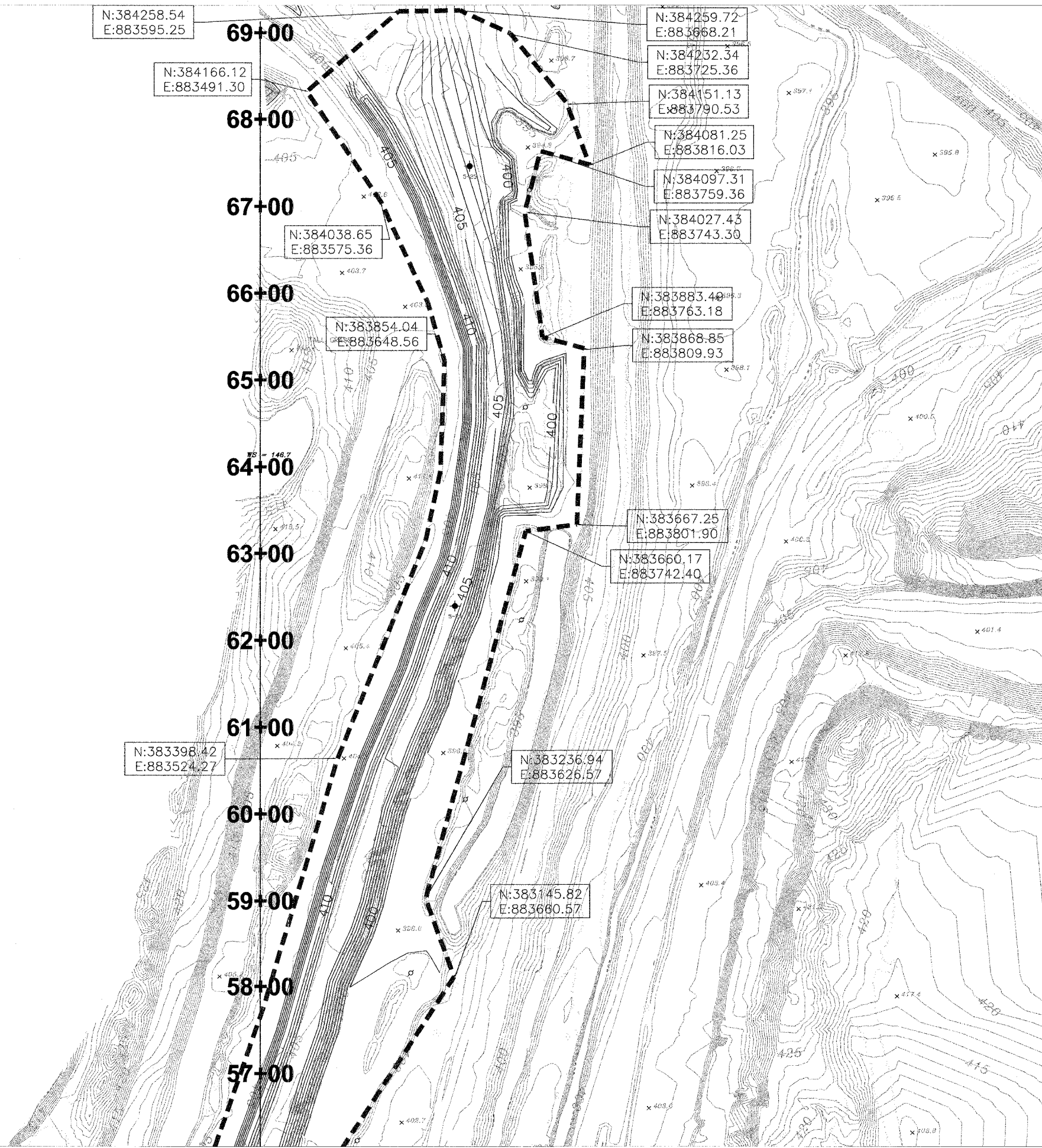
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Checked By: r.p. Date: 01/06
AP Date: 2/9/16

PROPOSED AND EXISTING
CONDITIONS
SHEET 11 OF 45

Sheet Layout



Legend	
	Existing Contour
	Proposed Contour
	Property Line
	Construction Limits
	Special Excelsior Blanket
	Treeline
	Structure
	Section Line
	Boring Location



Drawn By:	M.T.	Date:	11/05
Checked By:	<i>[Signature]</i>	Date:	01/06
	<i>[Signature]</i>	Date:	2/8/06

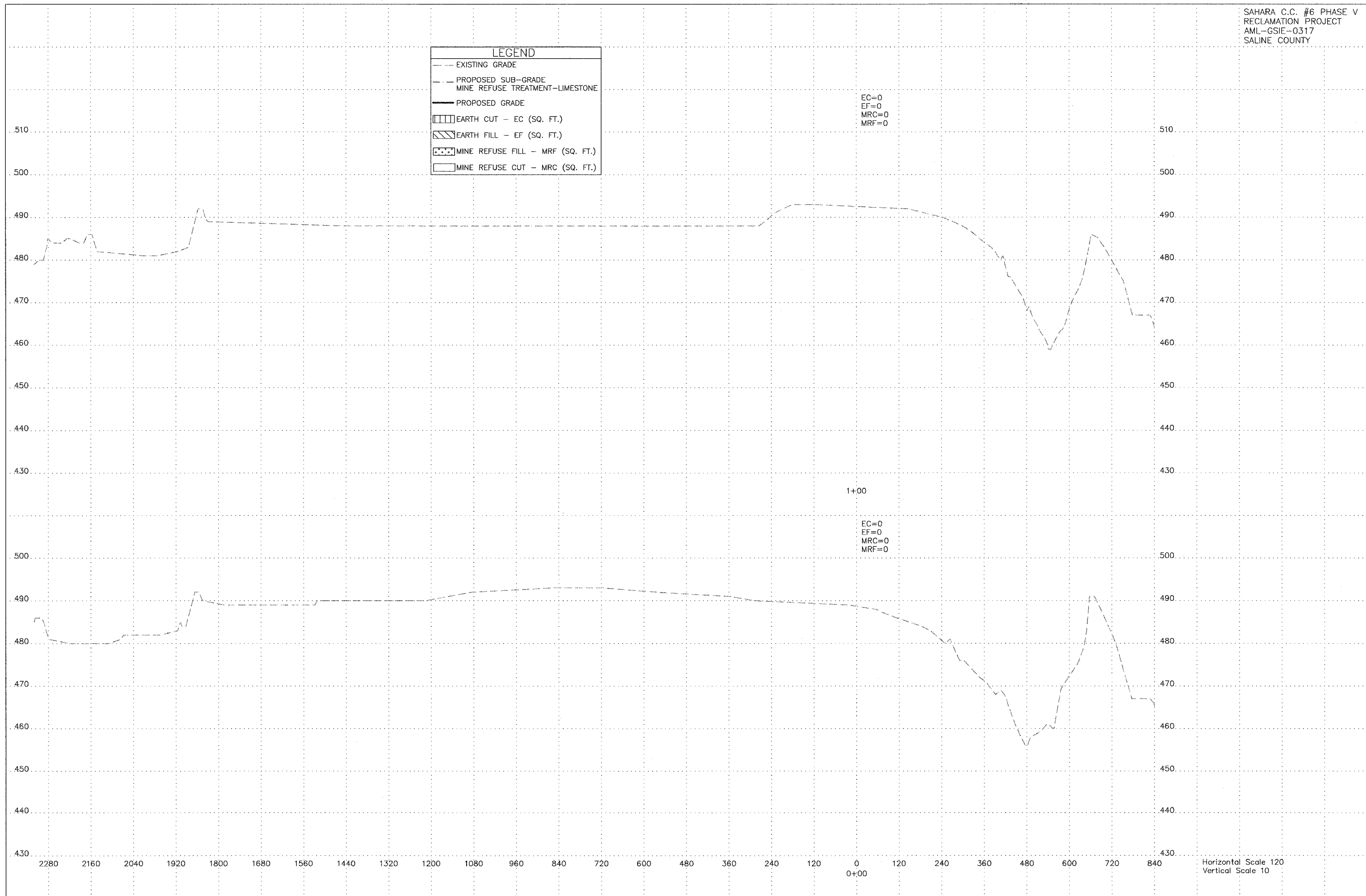
LEGEND

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

EC=0
 EF=0
 MRC=0
 MRF=0

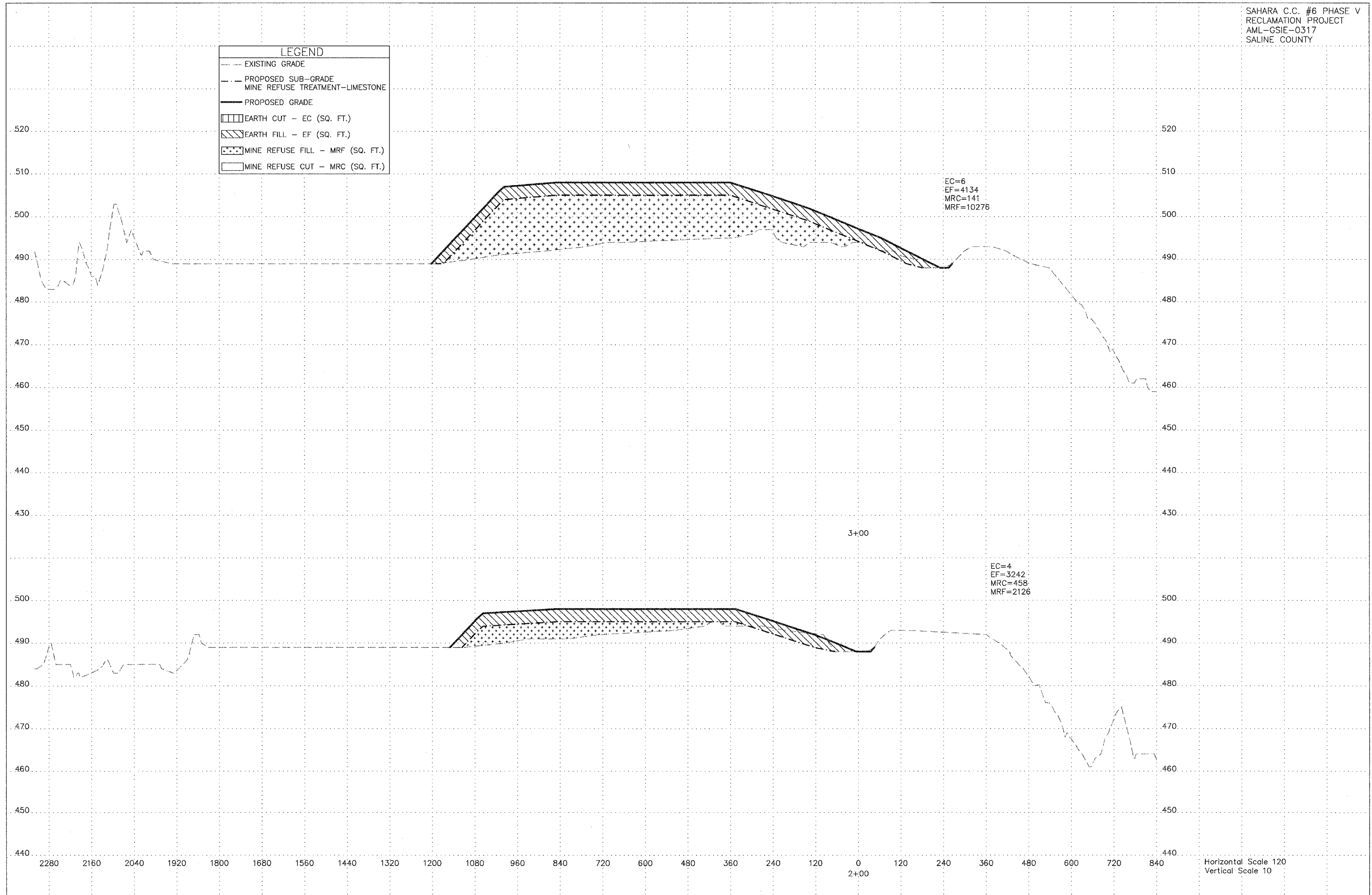
1+00

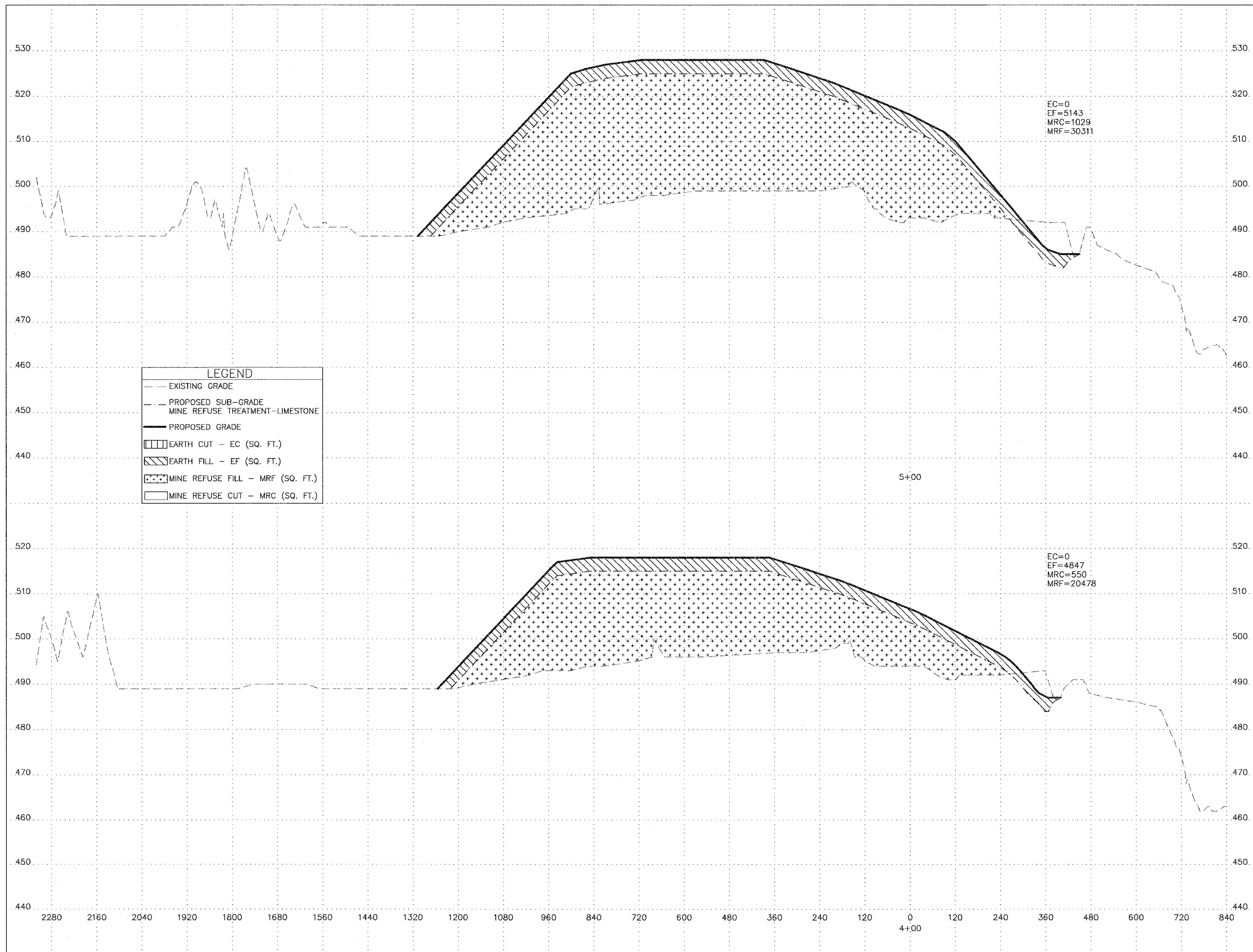
EC=0
 EF=0
 MRC=0
 MRF=0



Horizontal Scale 120
 Vertical Scale 10

LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)
▧	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)





LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
---	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)
⊠	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)

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 EF=5143
 MRC=1029
 MRF=30311

EC=0
 EF=4847
 MRC=550
 MRF=20478

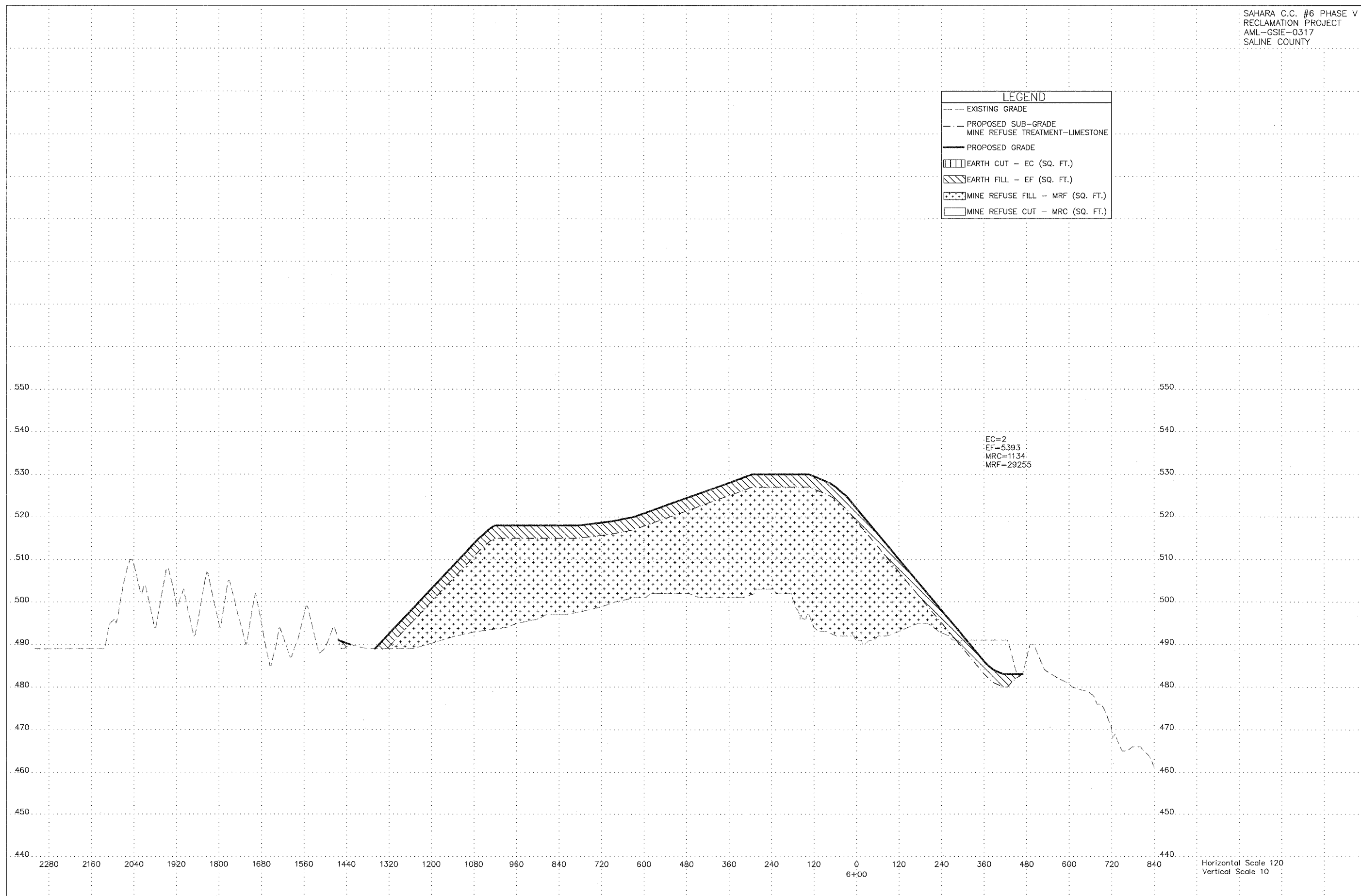
5+00

4+00

Horizontal Scale 120
 Vertical Scale 10

LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
□	EARTH CUT - EC (SQ. FT.)
▨	EARTH FILL - EF (SQ. FT.)
▩	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)

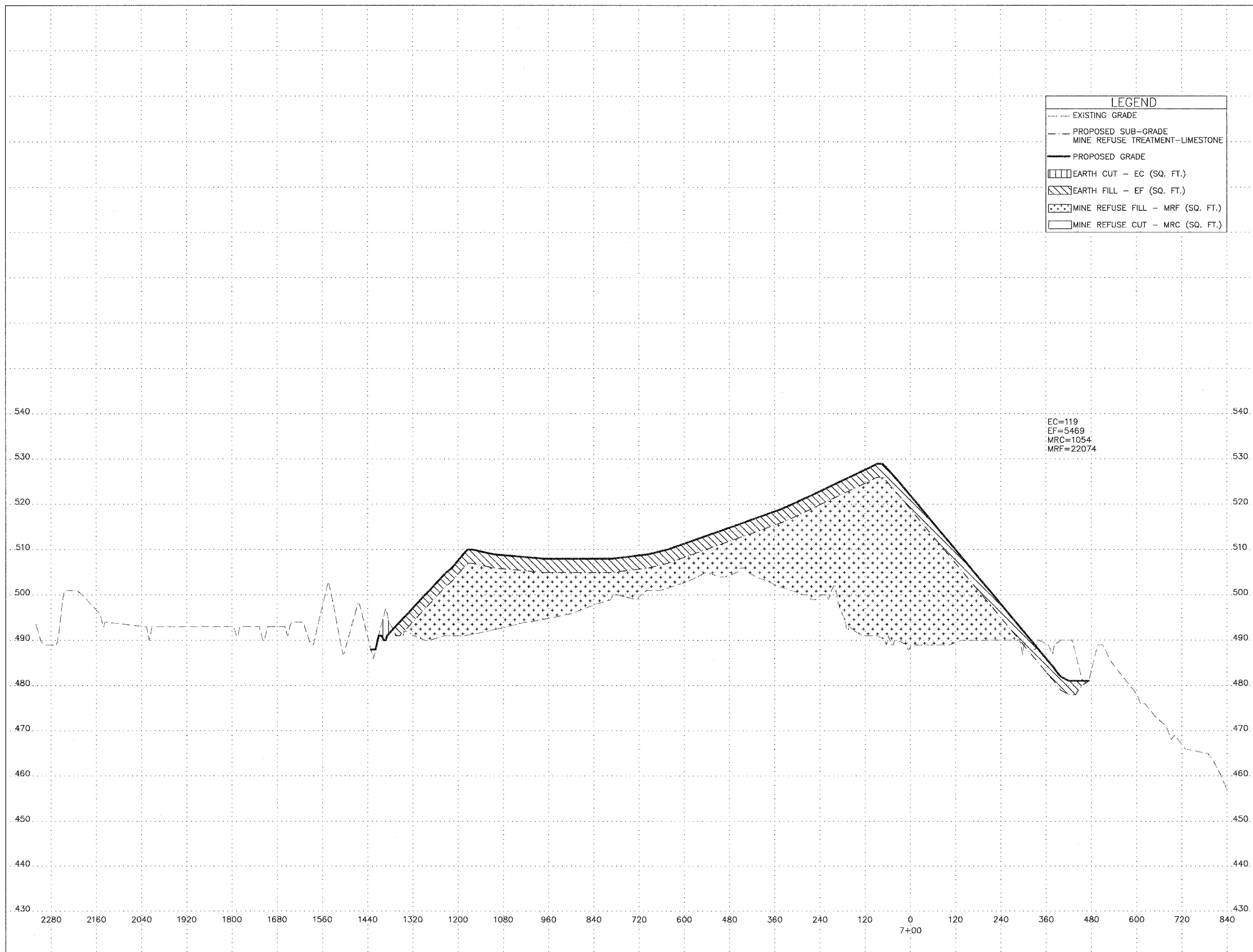
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MRC=1134
MRF=29255



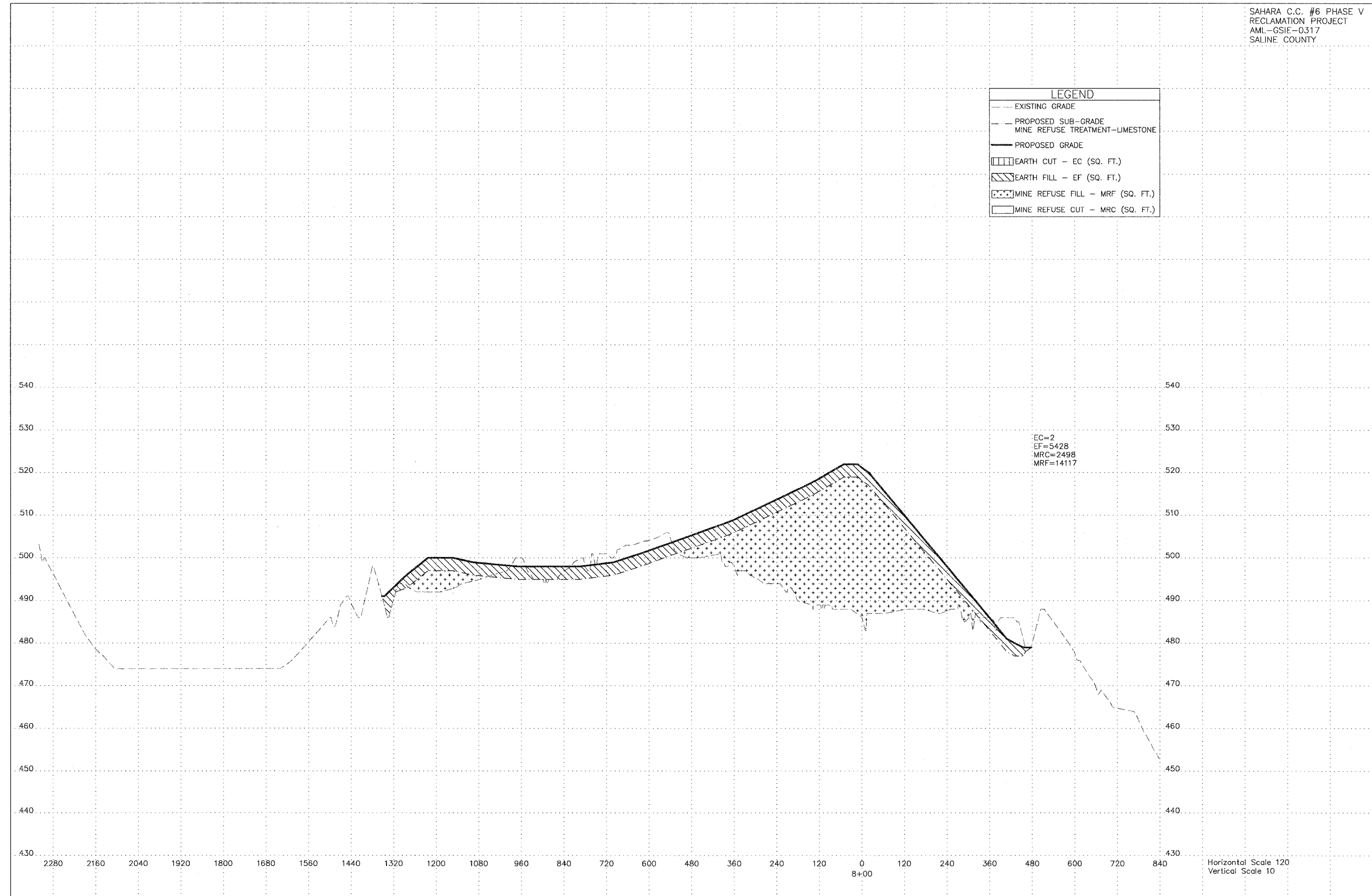
Horizontal Scale 120
Vertical Scale 10

LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
□	EARTH CUT - EC (SQ. FT.)
▨	EARTH FILL - EF (SQ. FT.)
▩	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)

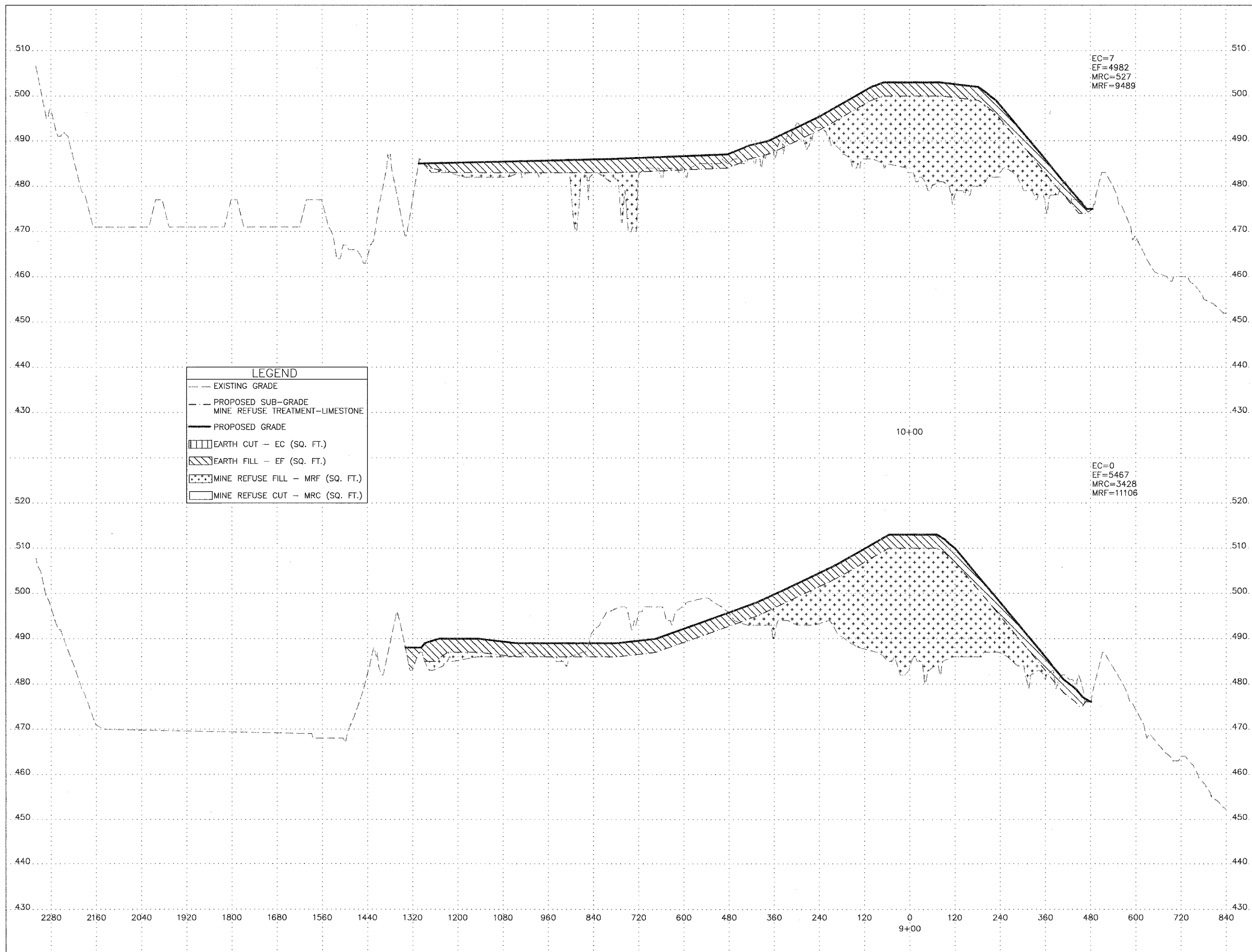
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EF=5469
MRC=1054
MRF=22074



Horizontal Scale 120
Vertical Scale 10



Horizontal Scale 120
 Vertical Scale 10



LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT — EC (SQ. FT.)
////	EARTH FILL — EF (SQ. FT.)
••••	MINE REFUSE FILL — MRF (SQ. FT.)
□	MINE REFUSE CUT — MRC (SQ. FT.)

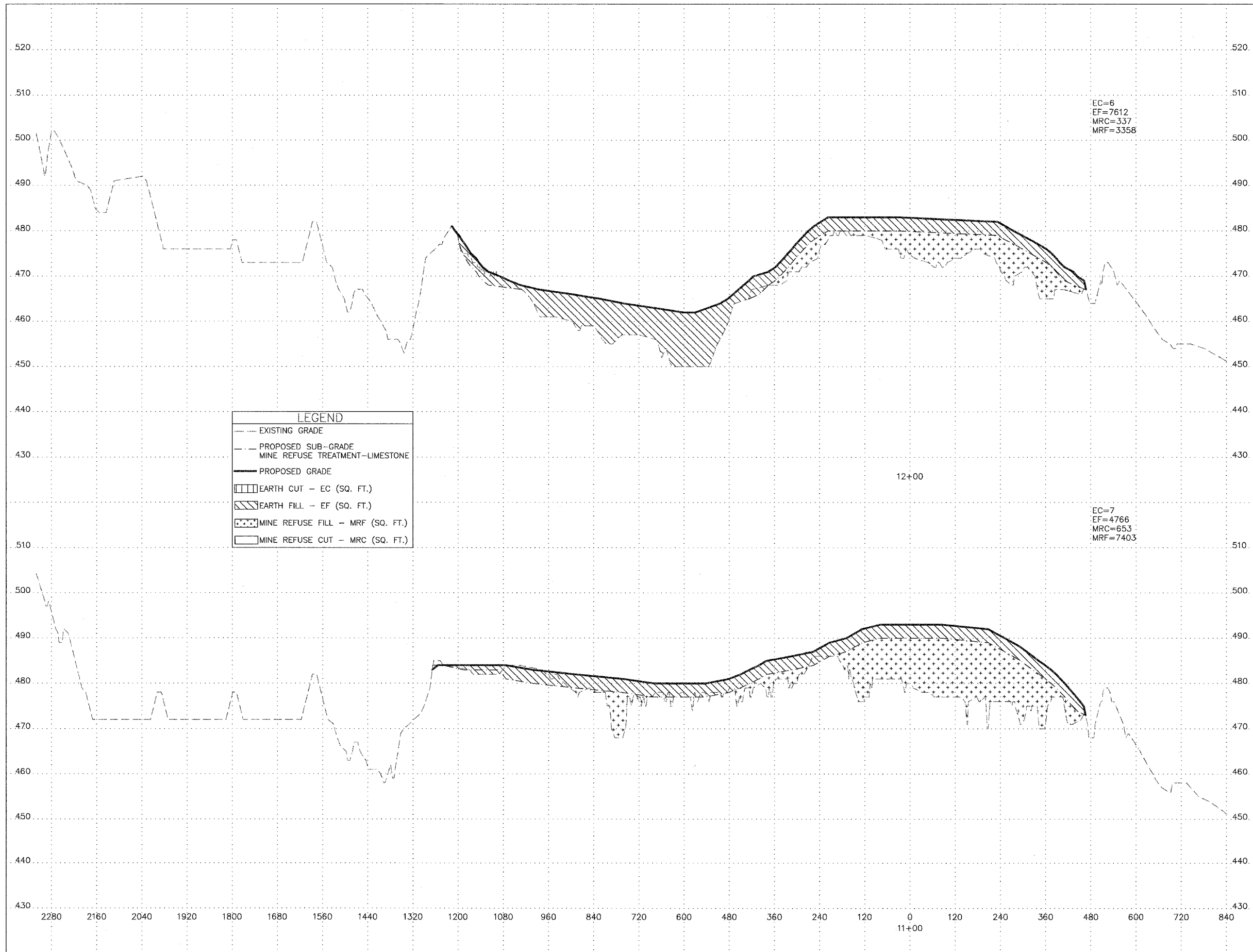
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 MRC=527
 MRF=9489

EC=0
 EF=5467
 MRC=3428
 MRF=11106

10+00

9+00

Horizontal Scale 120
 Vertical Scale 10



LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)
⋄	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)

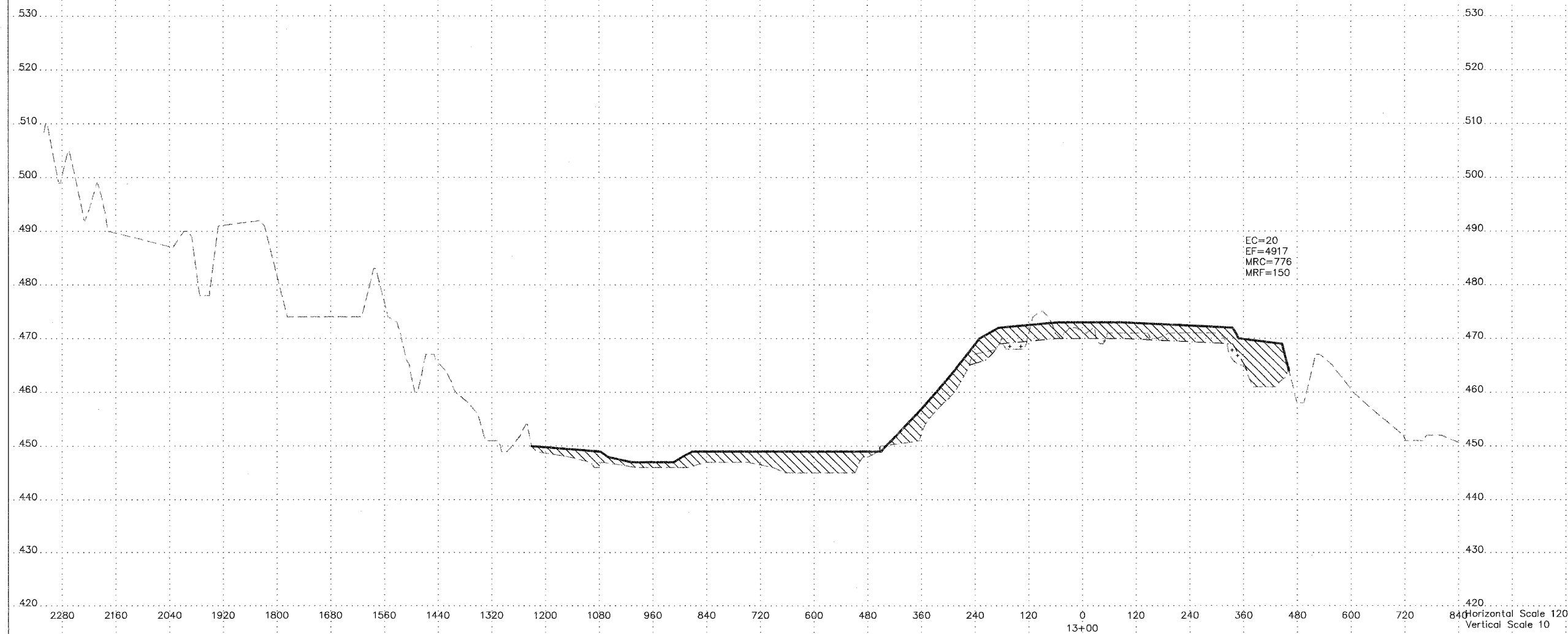
12+00

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 EF=4766
 MRC=653
 MRF=7403

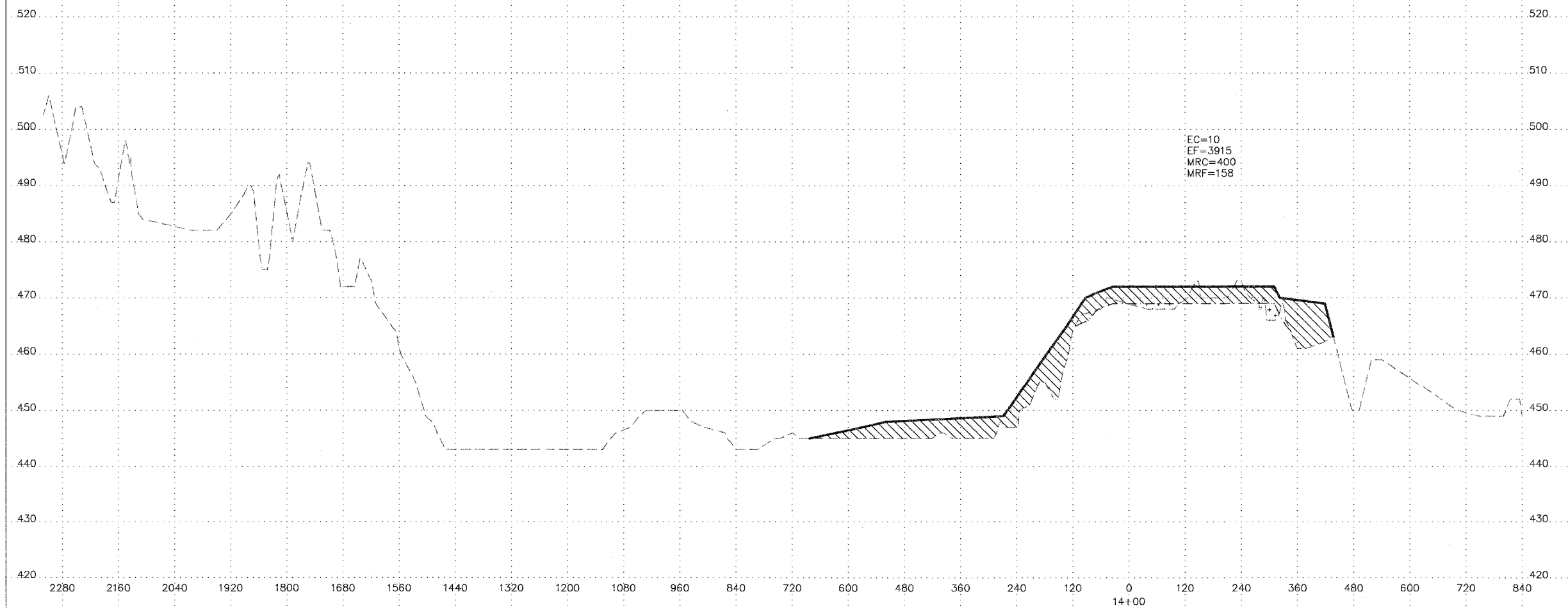
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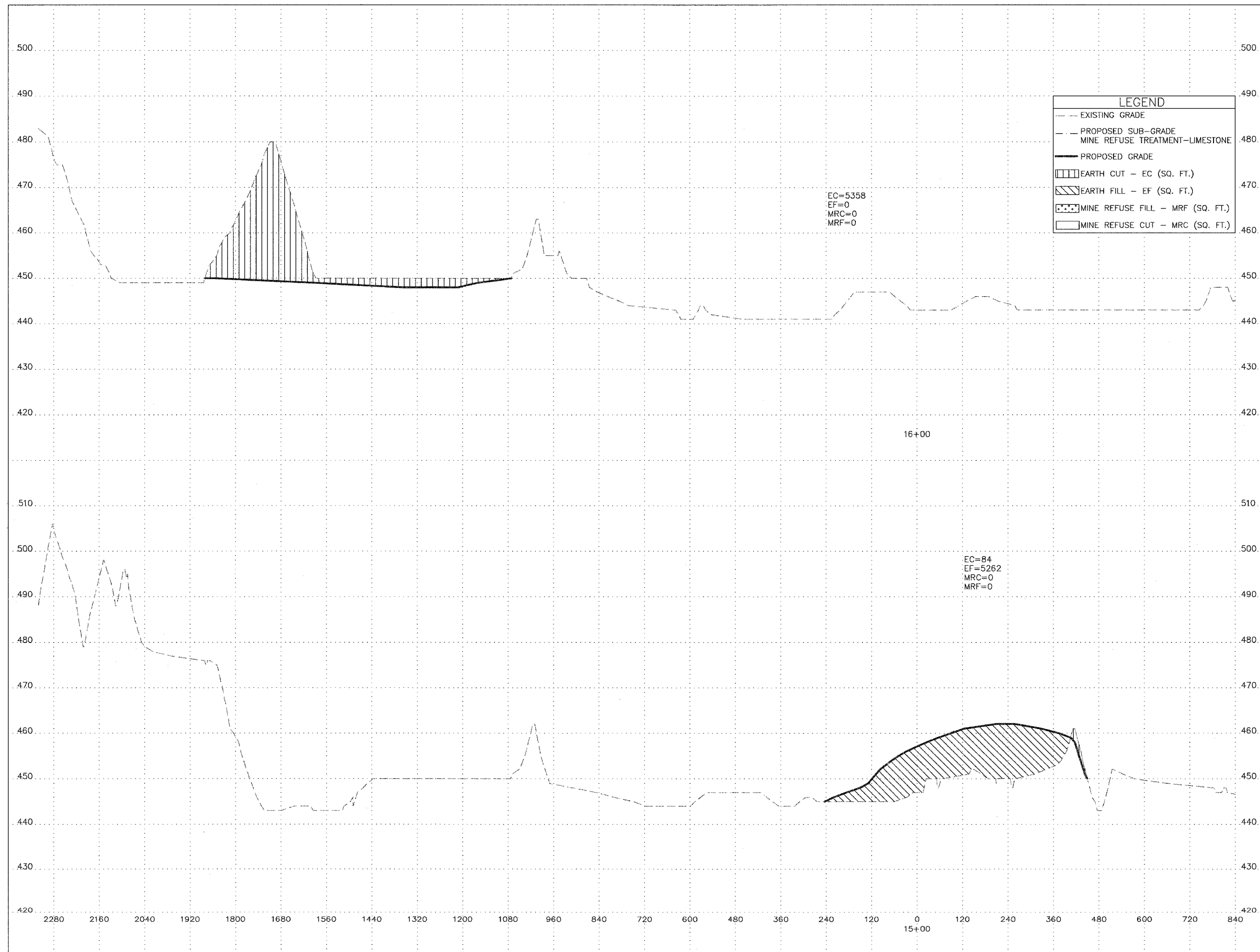
LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)
▧	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)



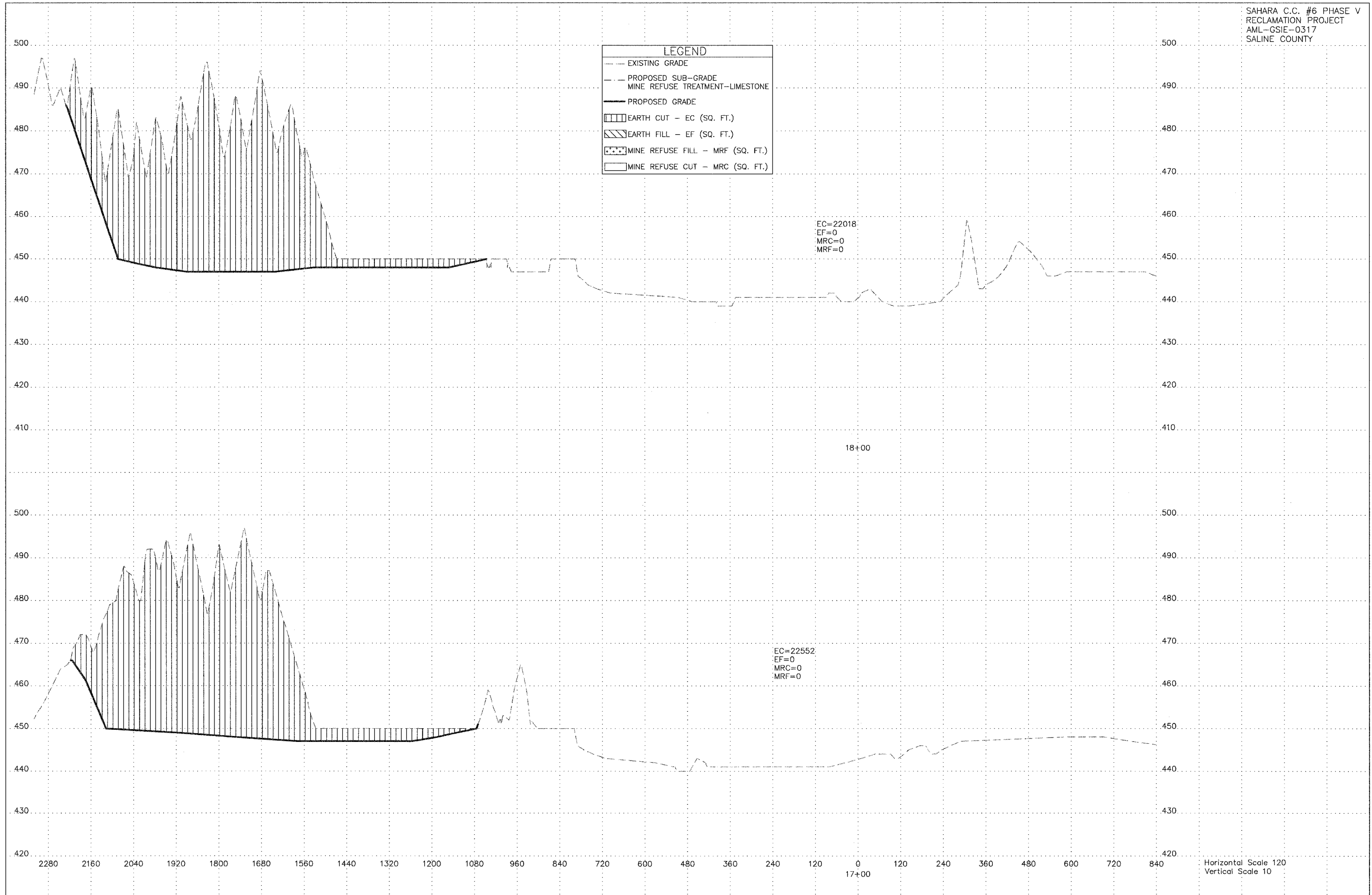
LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
▤	EARTH CUT - EC (SQ. FT.)
▥	EARTH FILL - EF (SQ. FT.)
▧	MINE REFUSE FILL - MRF (SQ. FT.)
▨	MINE REFUSE CUT - MRC (SQ. FT.)

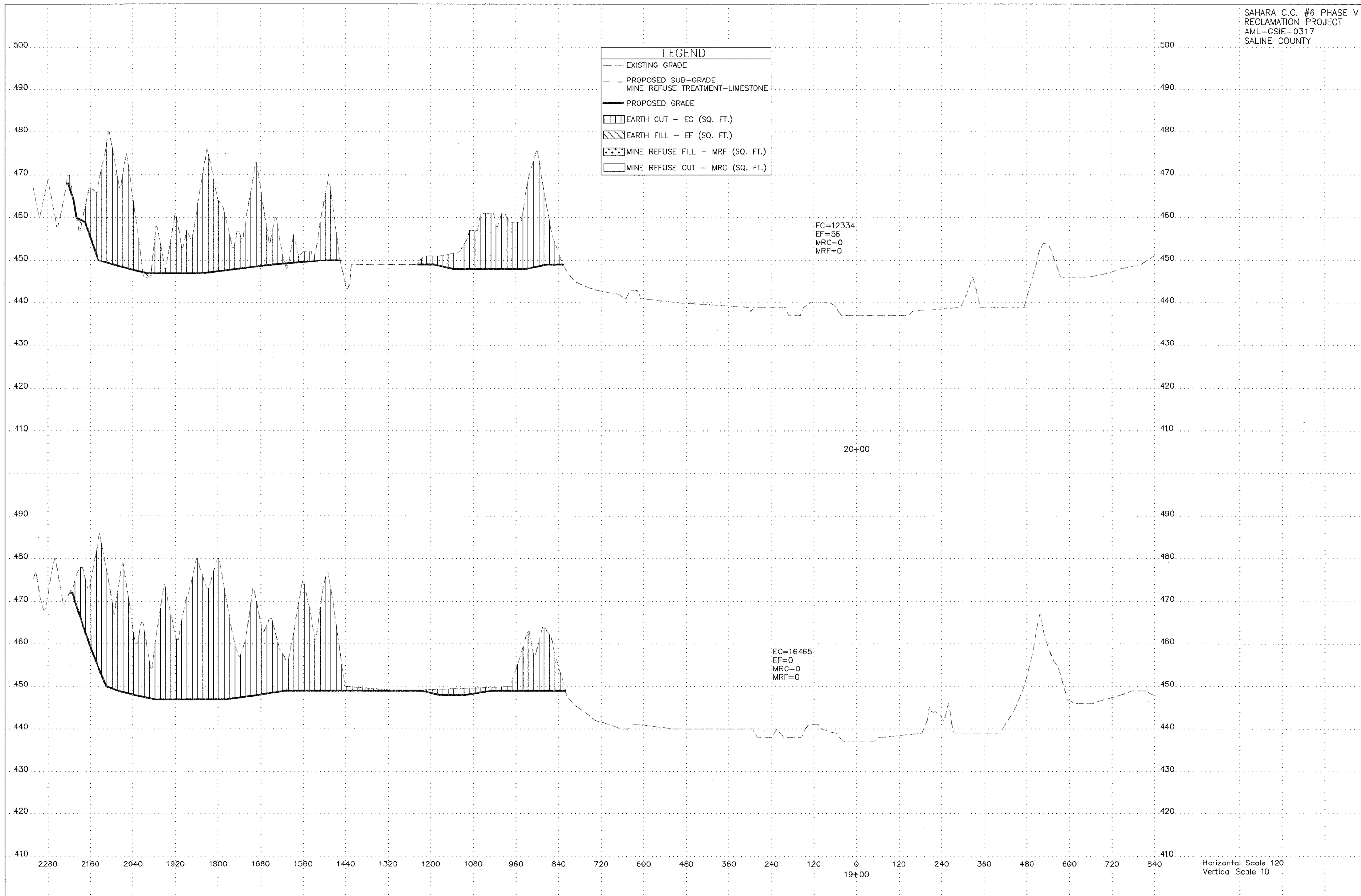


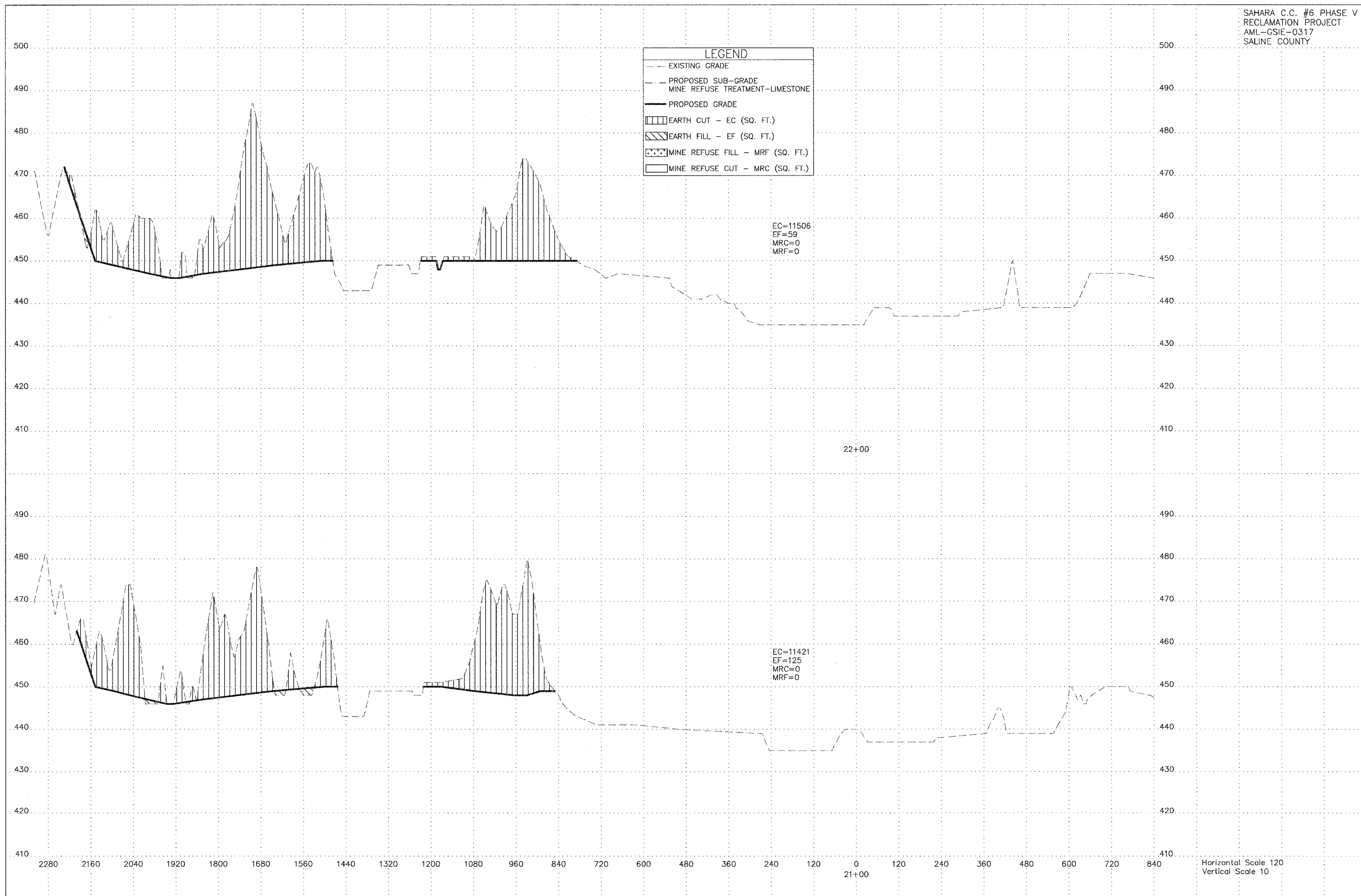
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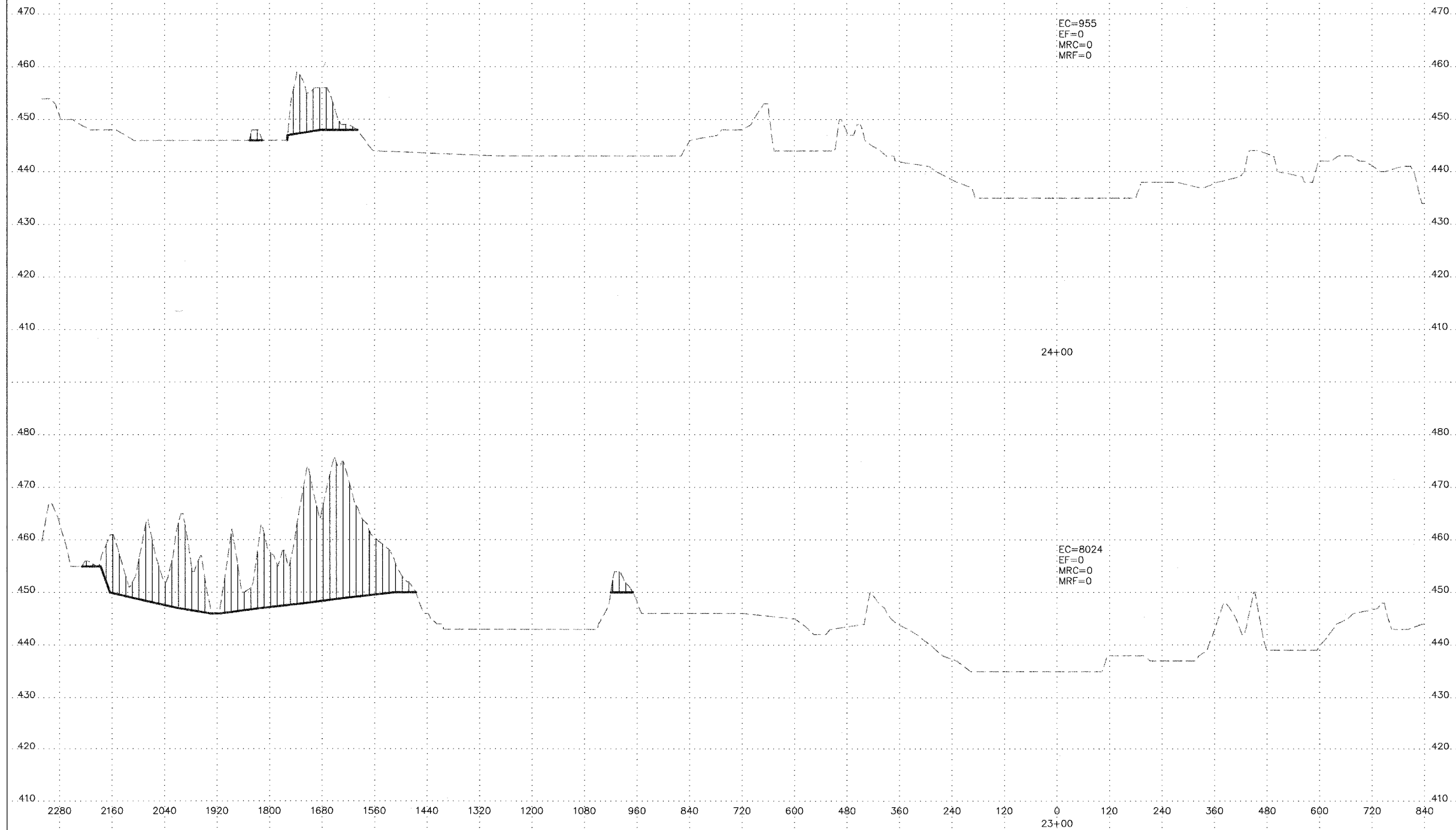
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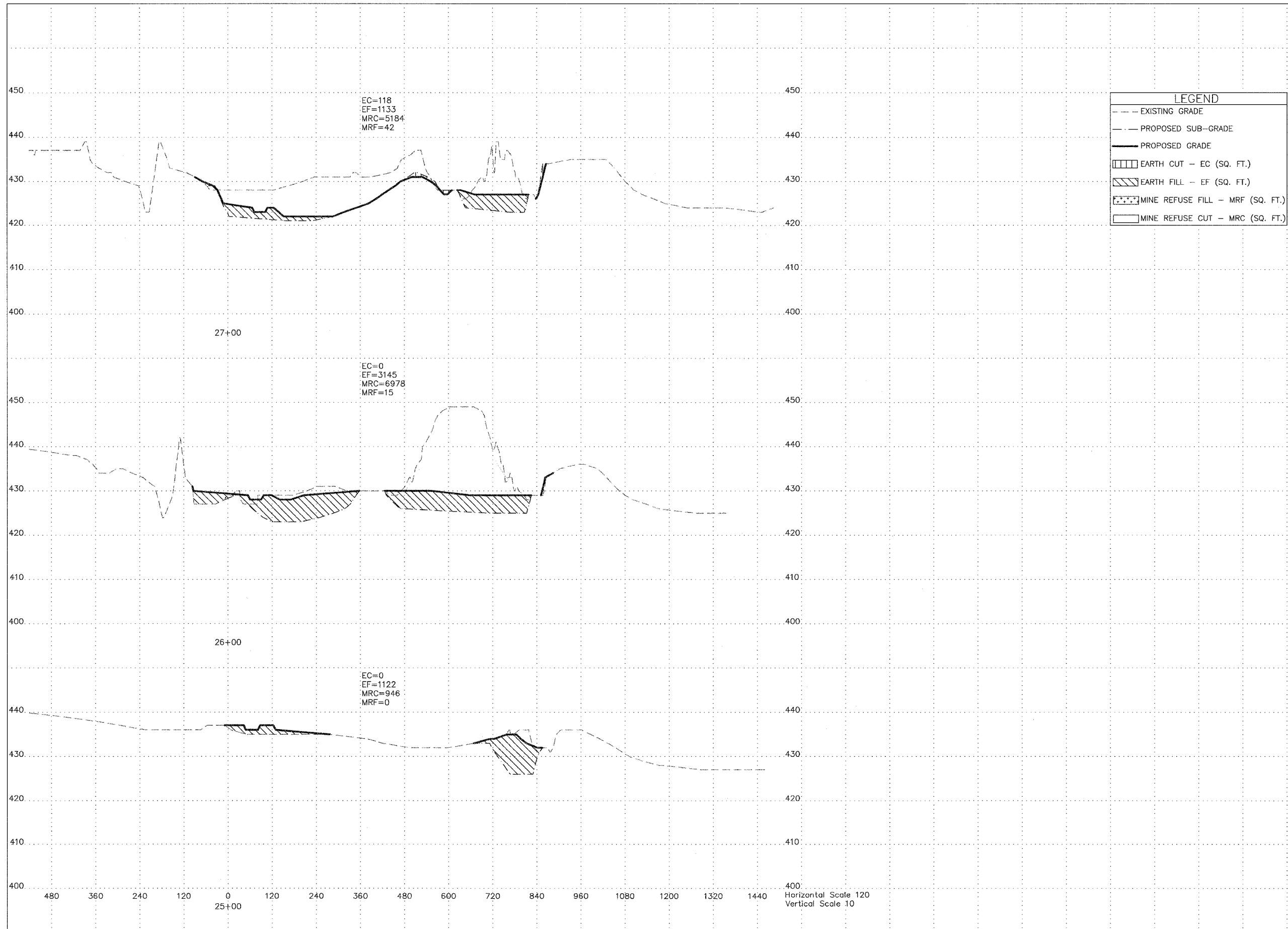




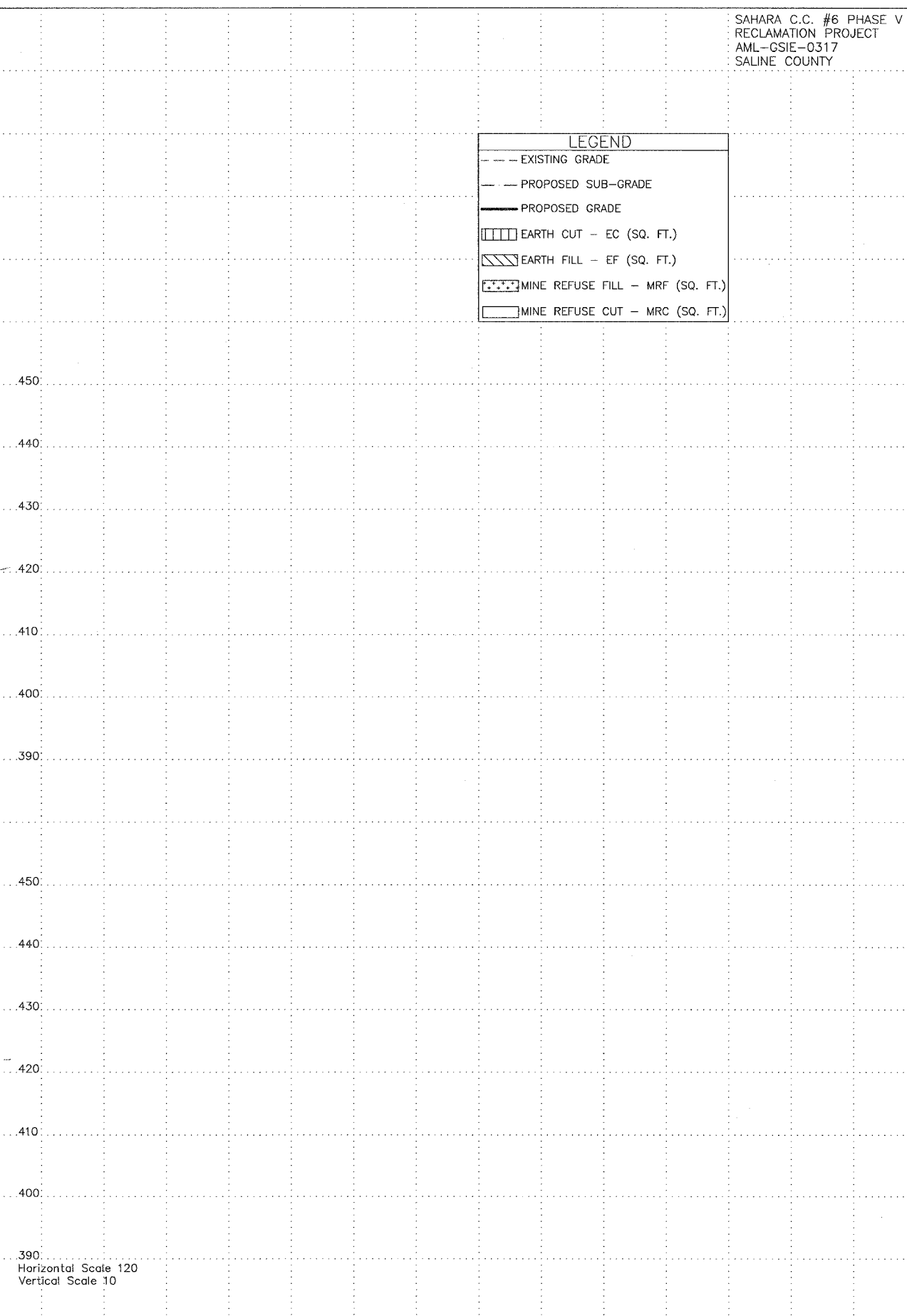
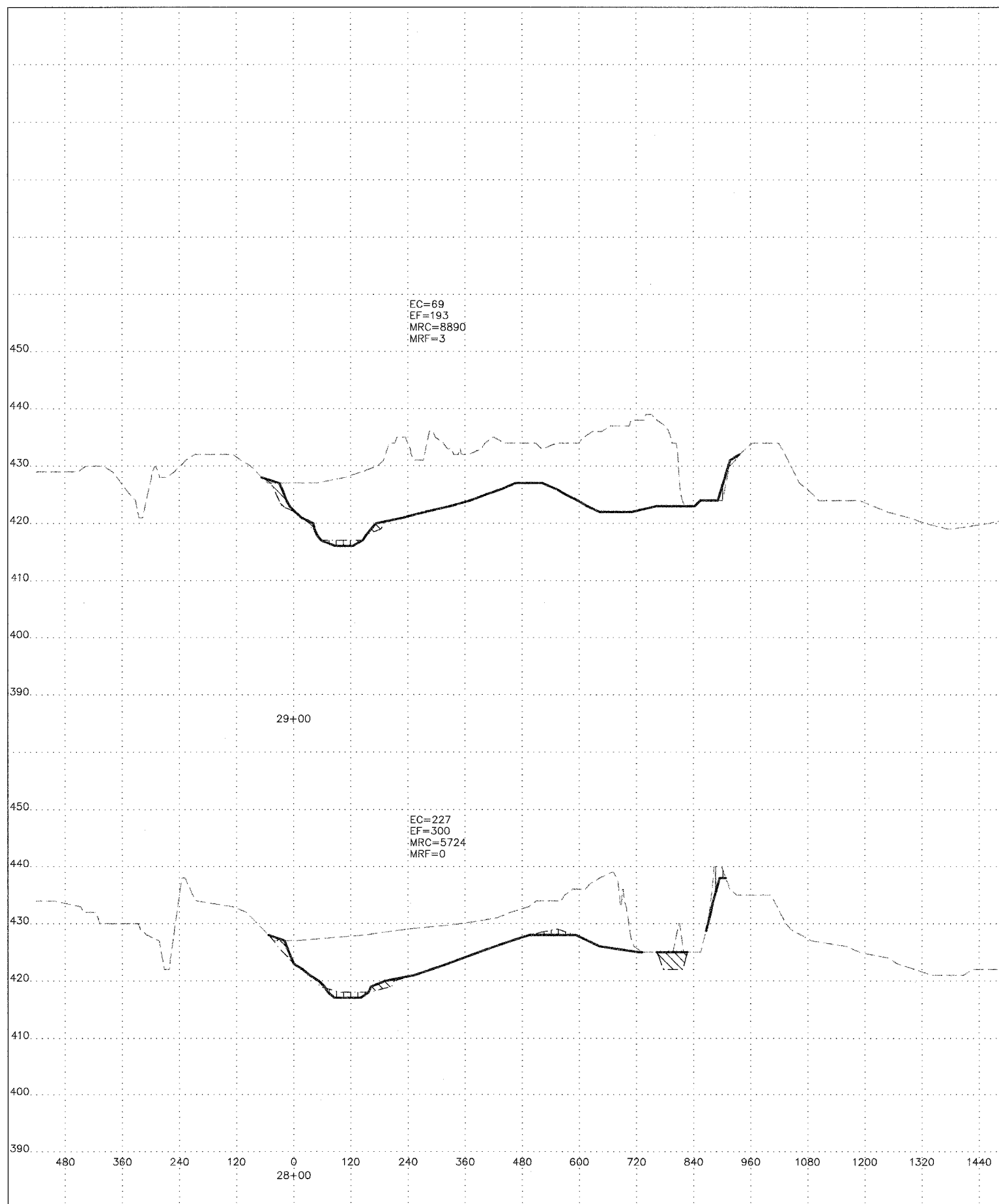
LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)
▧	MINE REFUSE FILL - MRF (SQ. FT.)
▦	MINE REFUSE CUT - MRC (SQ. FT.)

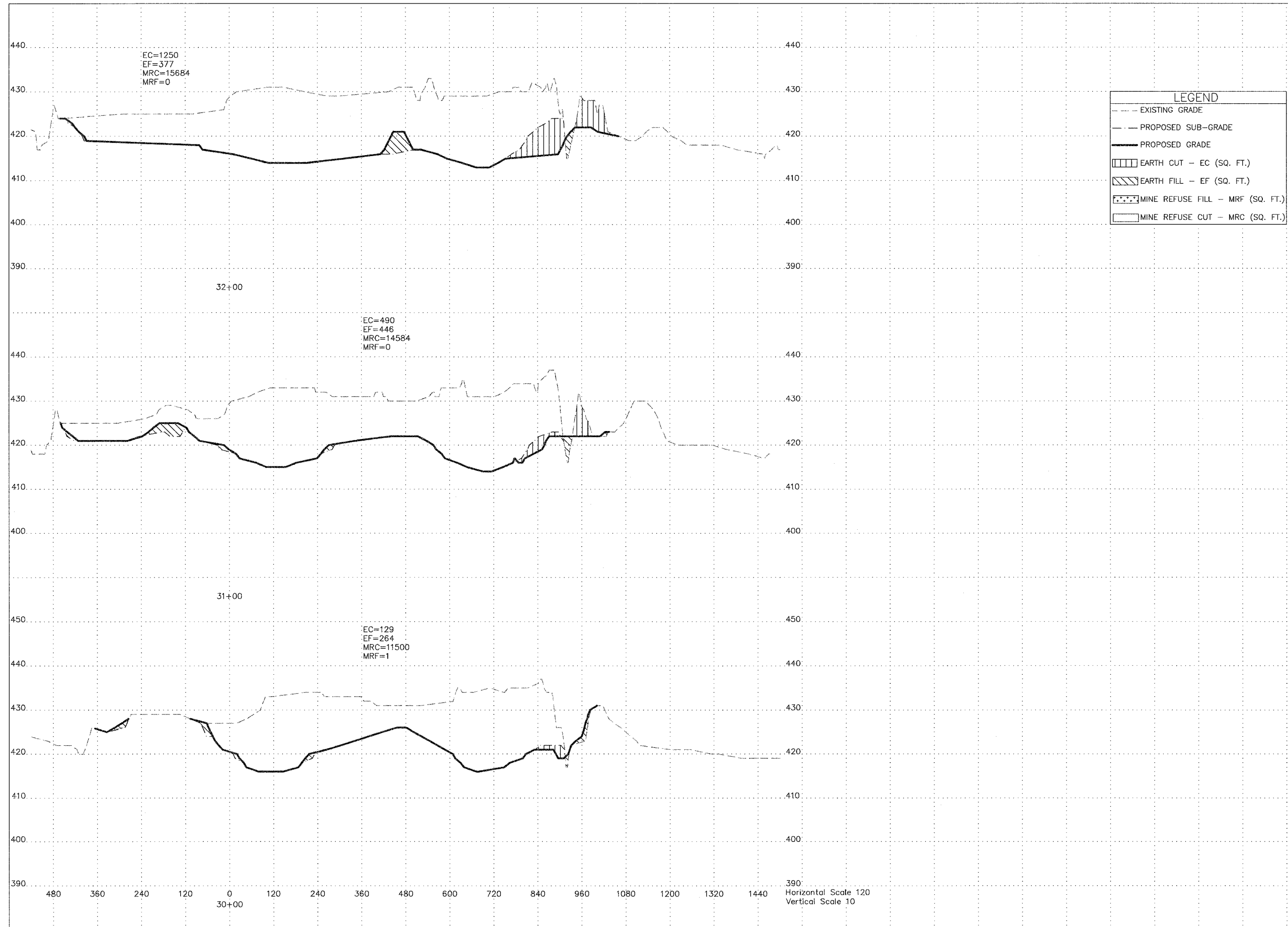


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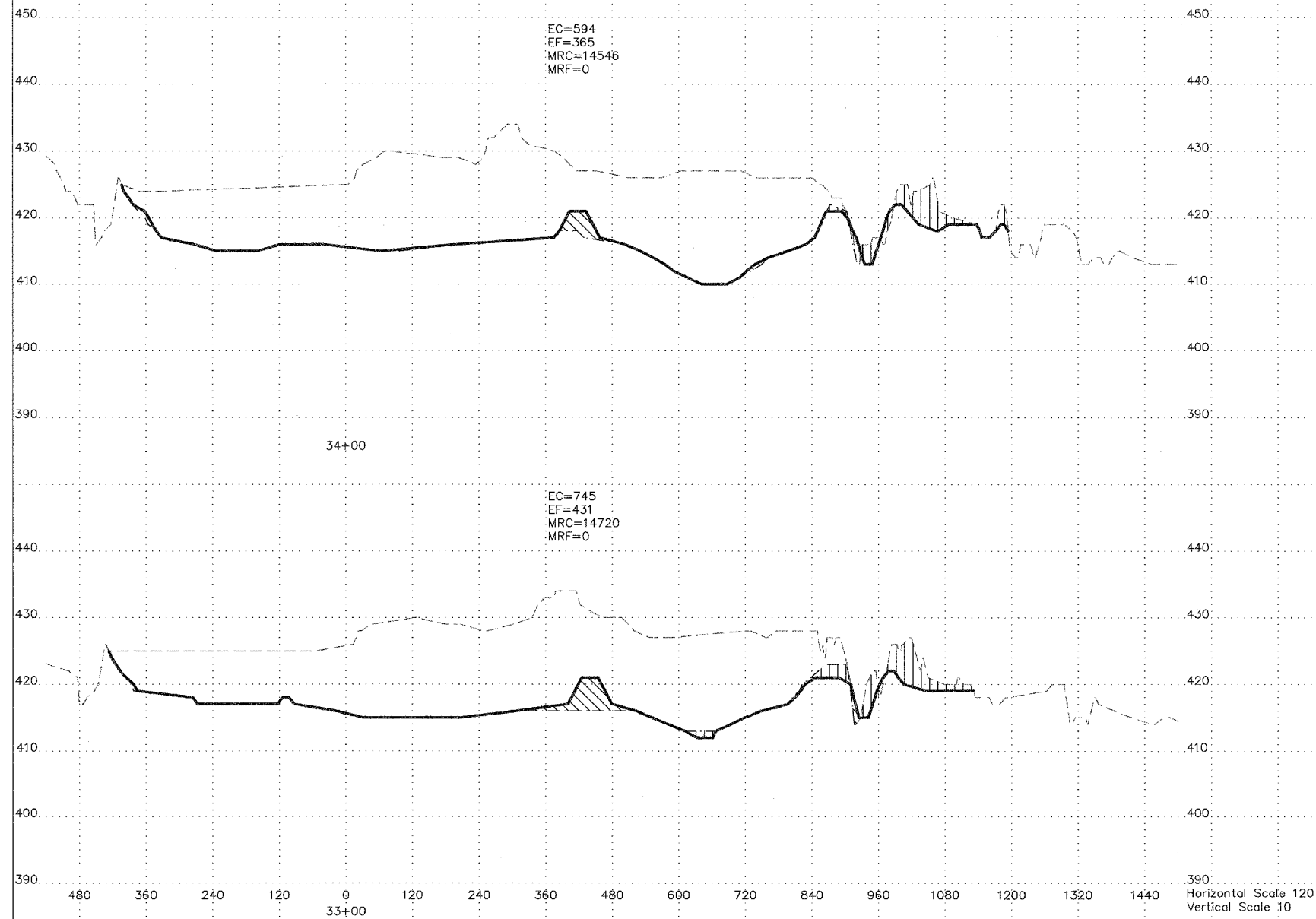
LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE
—	PROPOSED GRADE
□	EARTH CUT - EC (SQ. FT.)
▨	EARTH FILL - EF (SQ. FT.)
⊠	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)

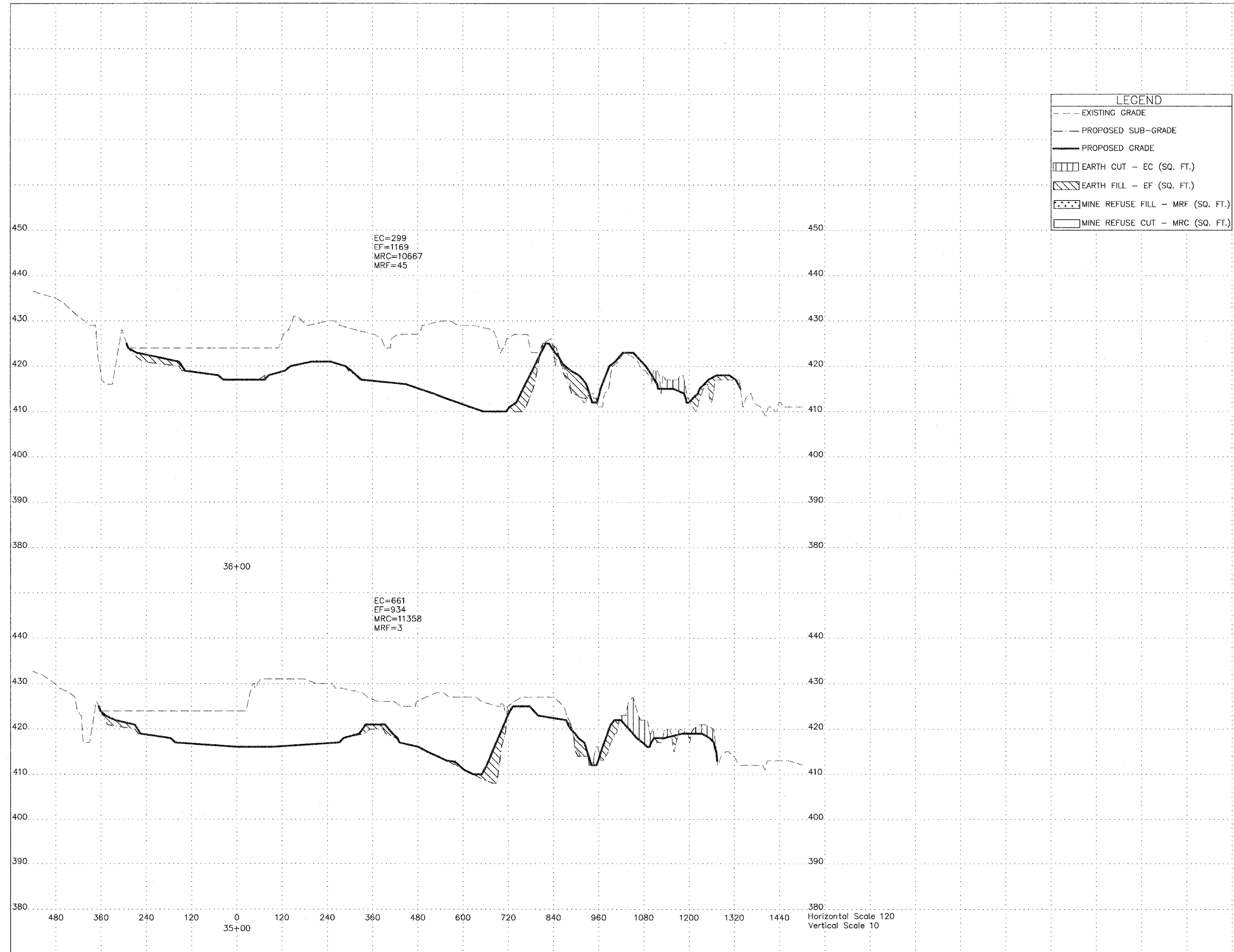


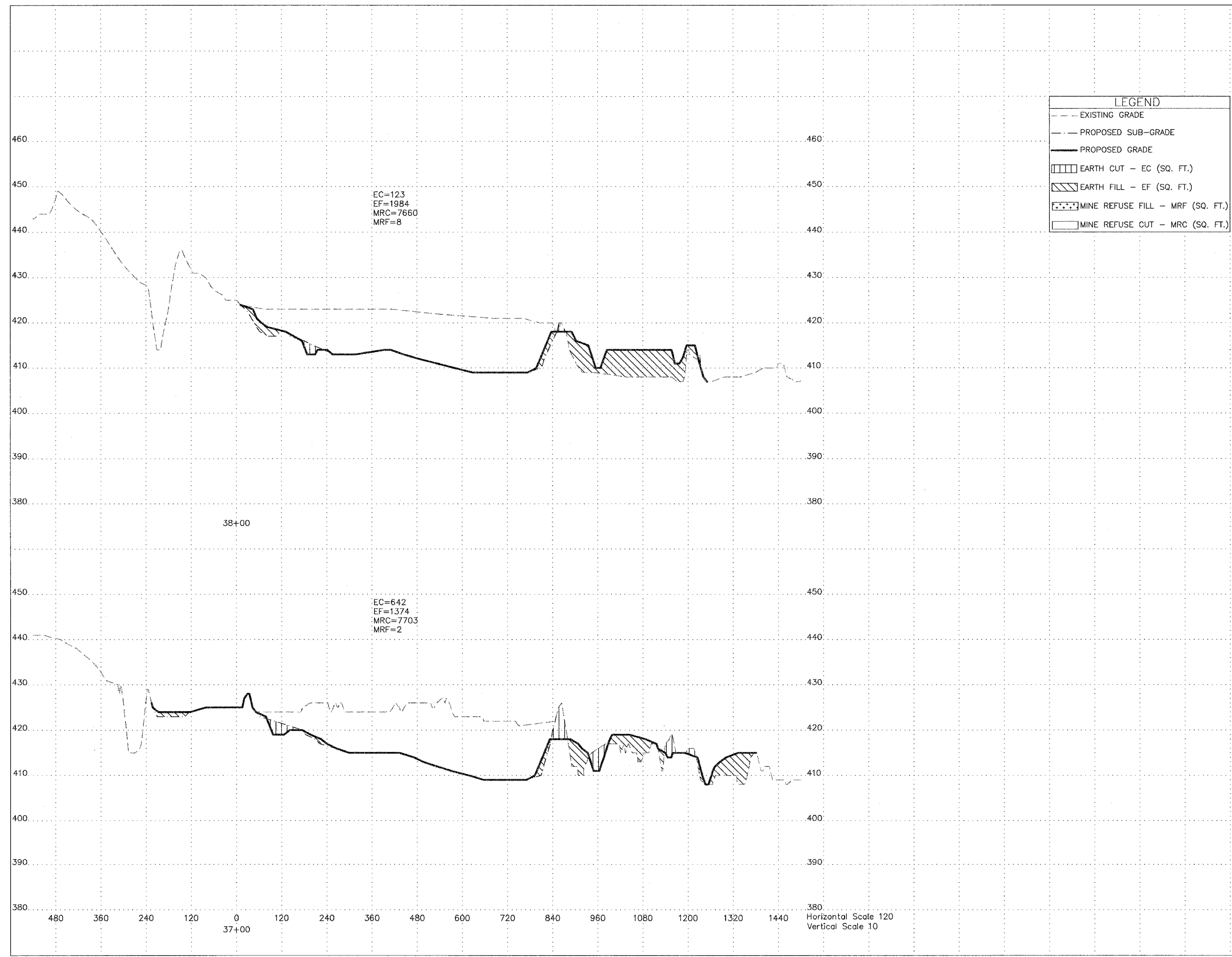


Horizontal Scale 120
 Vertical Scale 10

LEGEND	
- - -	EXISTING GRADE
- - -	PROPOSED SUB-GRADE
—	PROPOSED GRADE
[Hatched Box]	EARTH CUT - EC (SQ. FT.)
[Diagonal Hatched Box]	EARTH FILL - EF (SQ. FT.)
[Dotted Box]	MINE REFUSE FILL - MRF (SQ. FT.)
[Empty Box]	MINE REFUSE CUT - MRC (SQ. FT.)

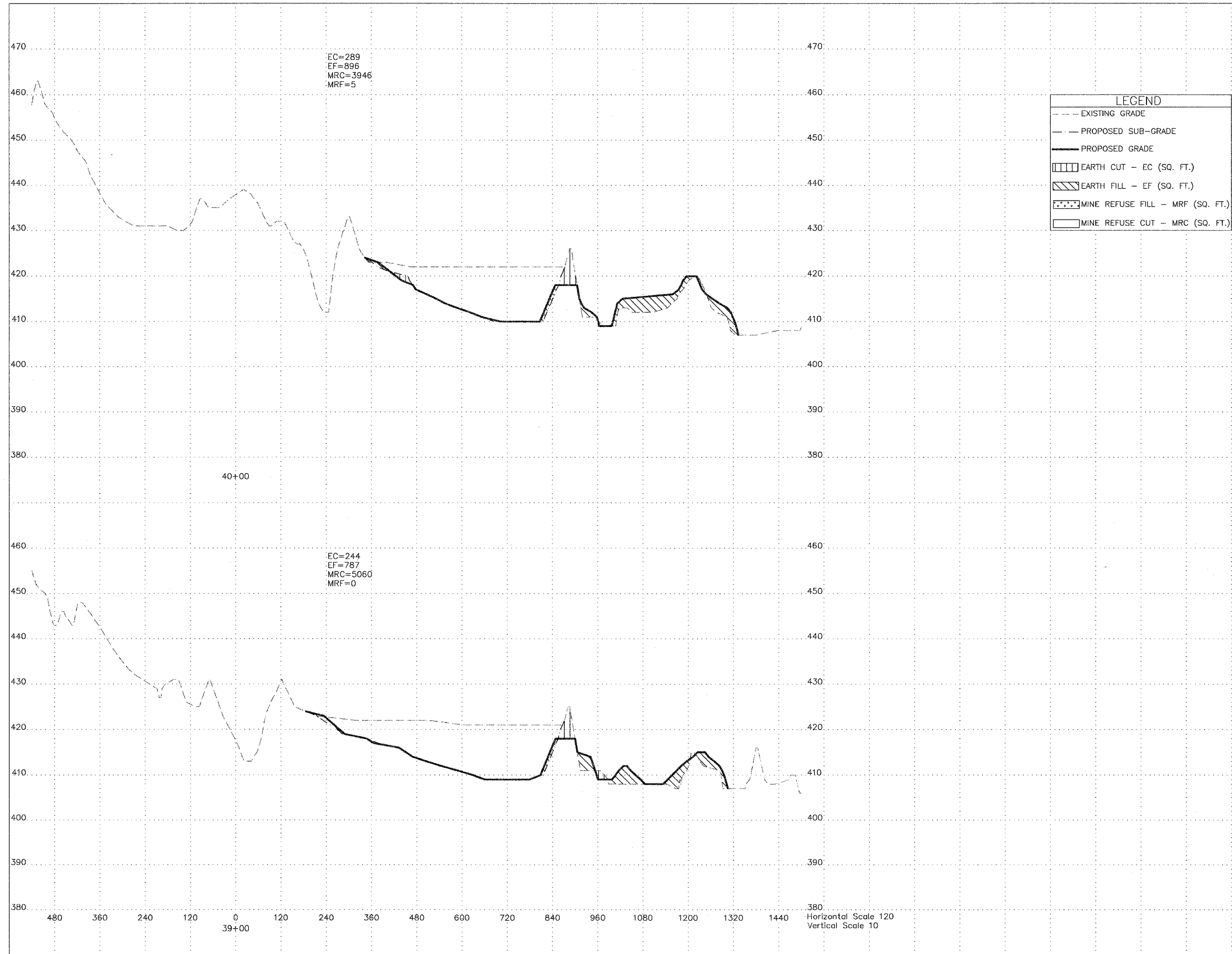




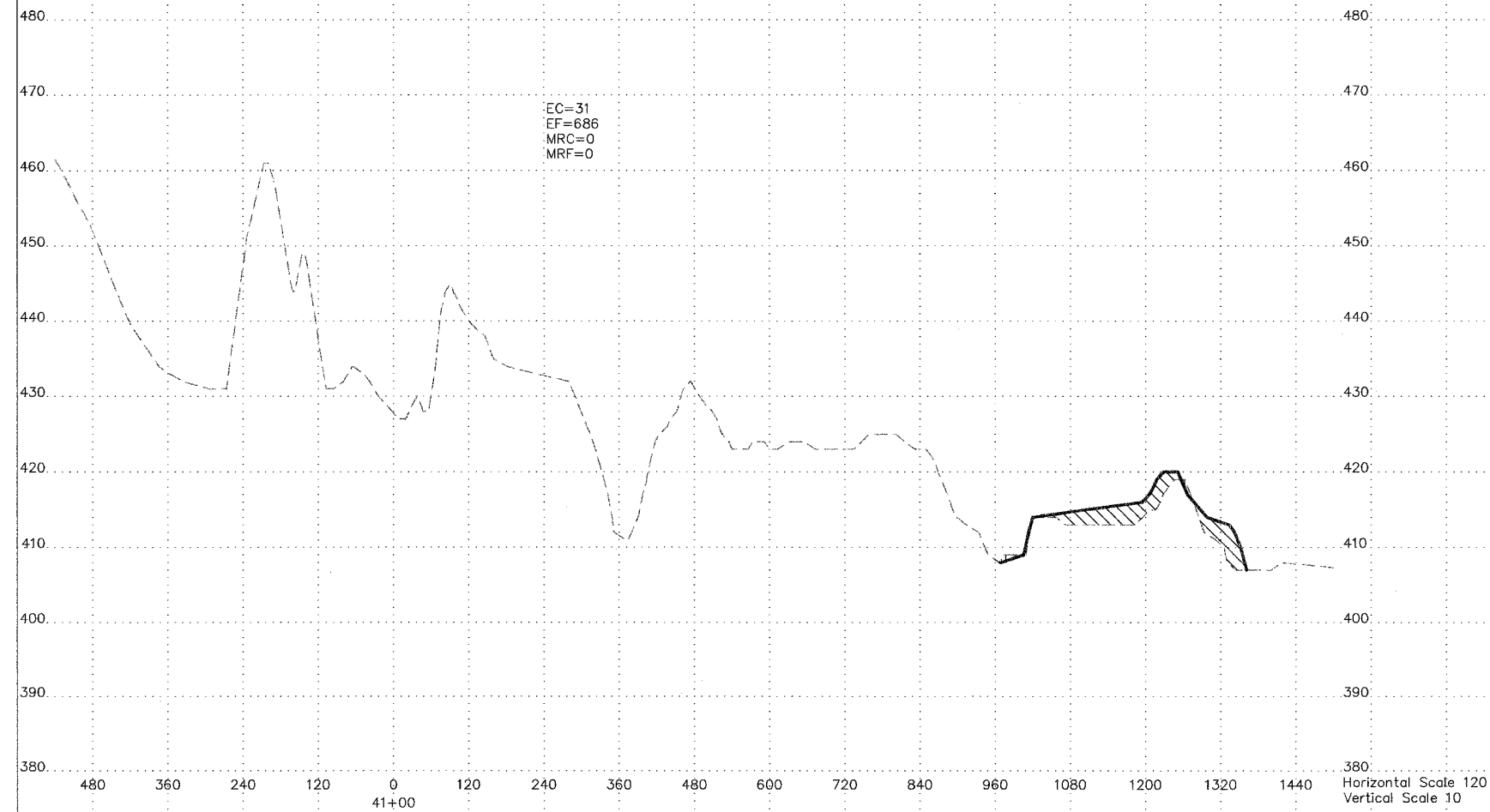


LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE
—	PROPOSED GRADE
	EARTH CUT - EC (SQ. FT.)
////	EARTH FILL - EF (SQ. FT.)
.....	MINE REFUSE FILL - MRF (SQ. FT.)
----	MINE REFUSE CUT - MRC (SQ. FT.)

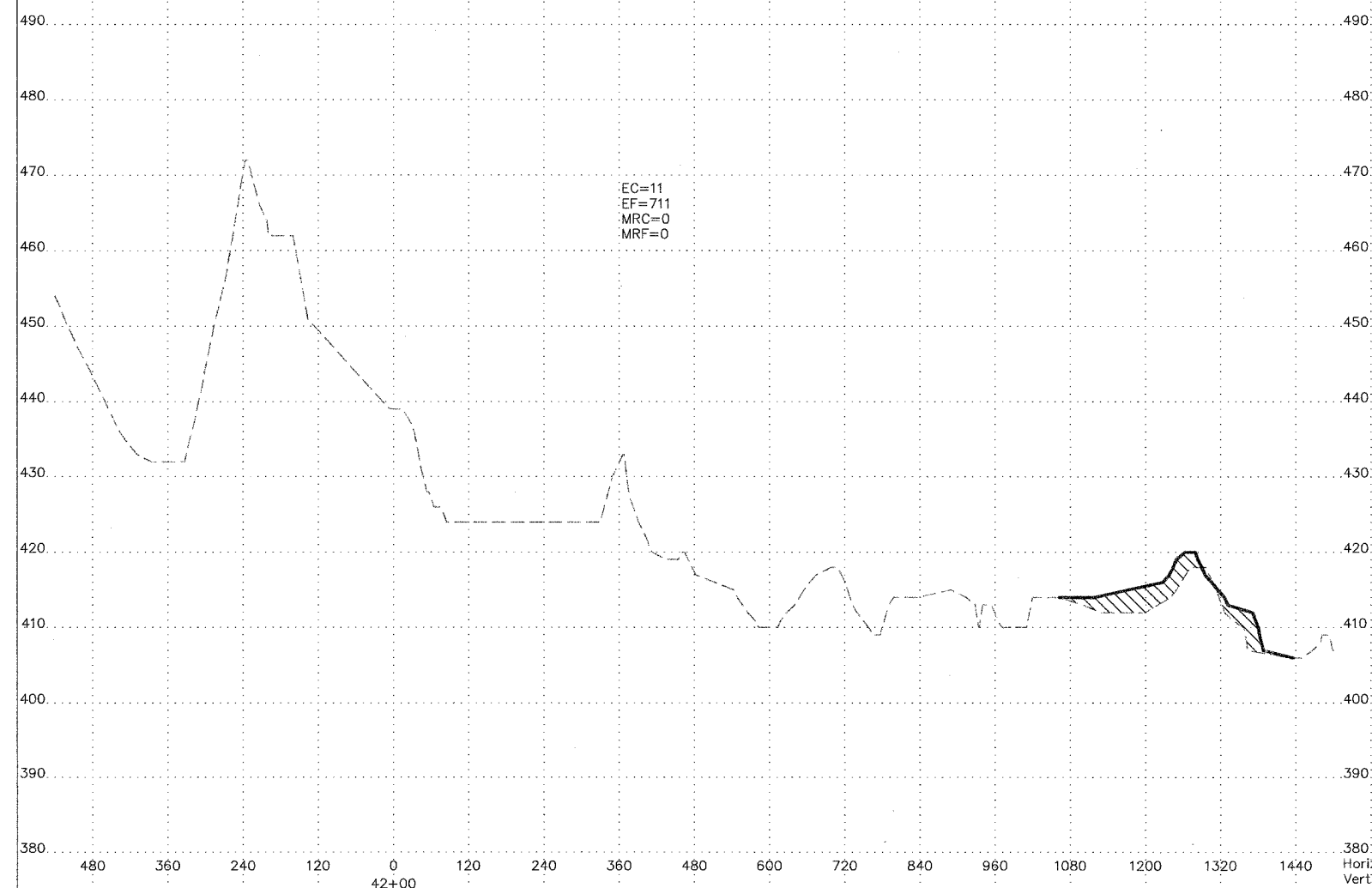
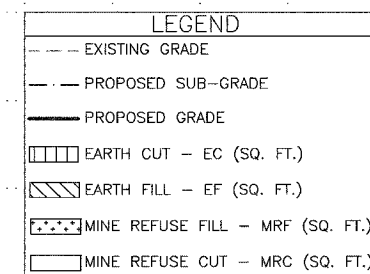
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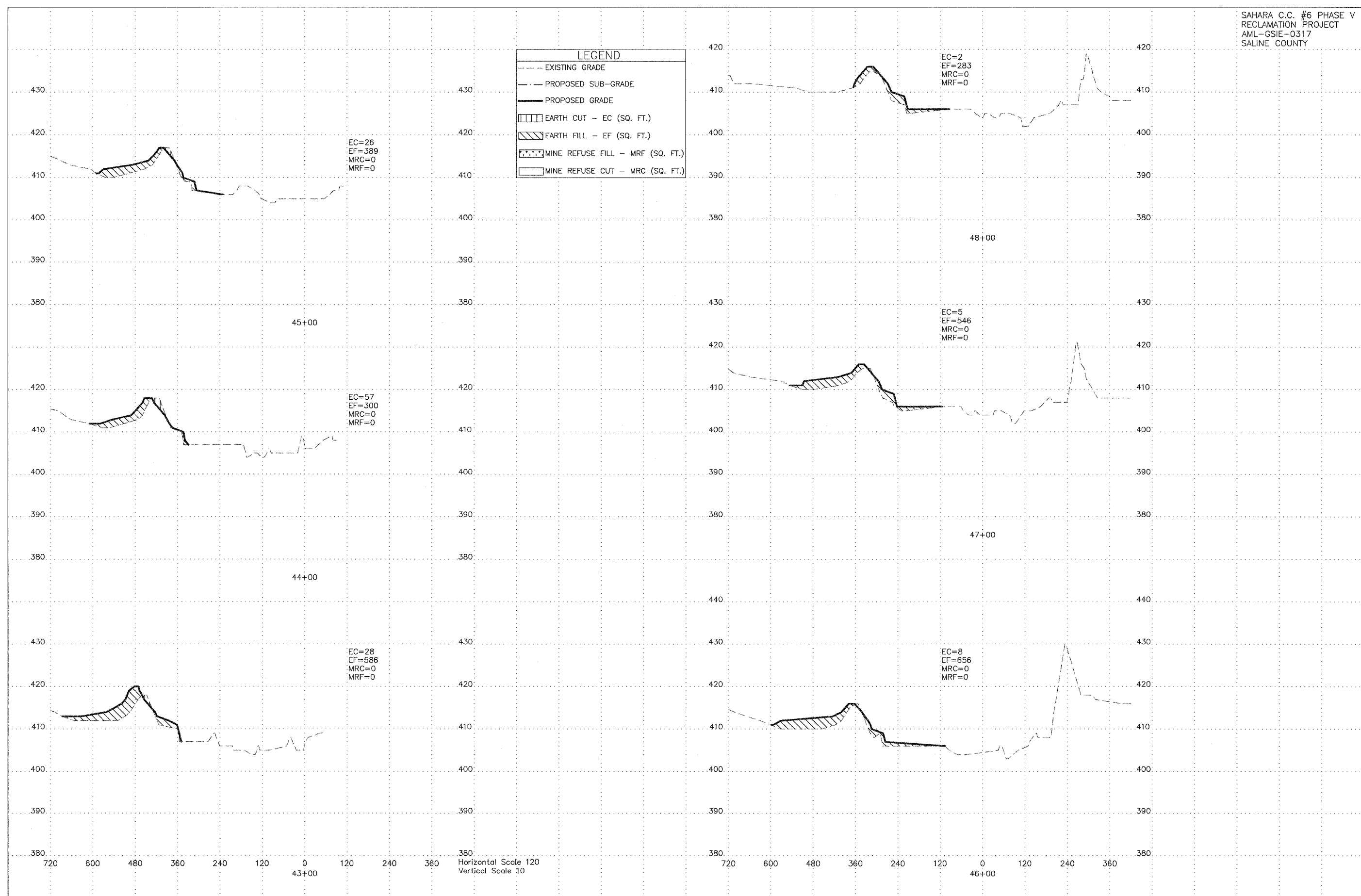
LEGEND	
- - -	EXISTING GRADE
- - -	PROPOSED SUB-GRADE
—	PROPOSED GRADE
□□□□	EARTH CUT - EC (SQ. FT.)
▨▨▨▨	EARTH FILL - EF (SQ. FT.)
▤▤▤▤	MINE REFUSE FILL - MRF (SQ. FT.)
□□□□	MINE REFUSE CUT - MRC (SQ. FT.)



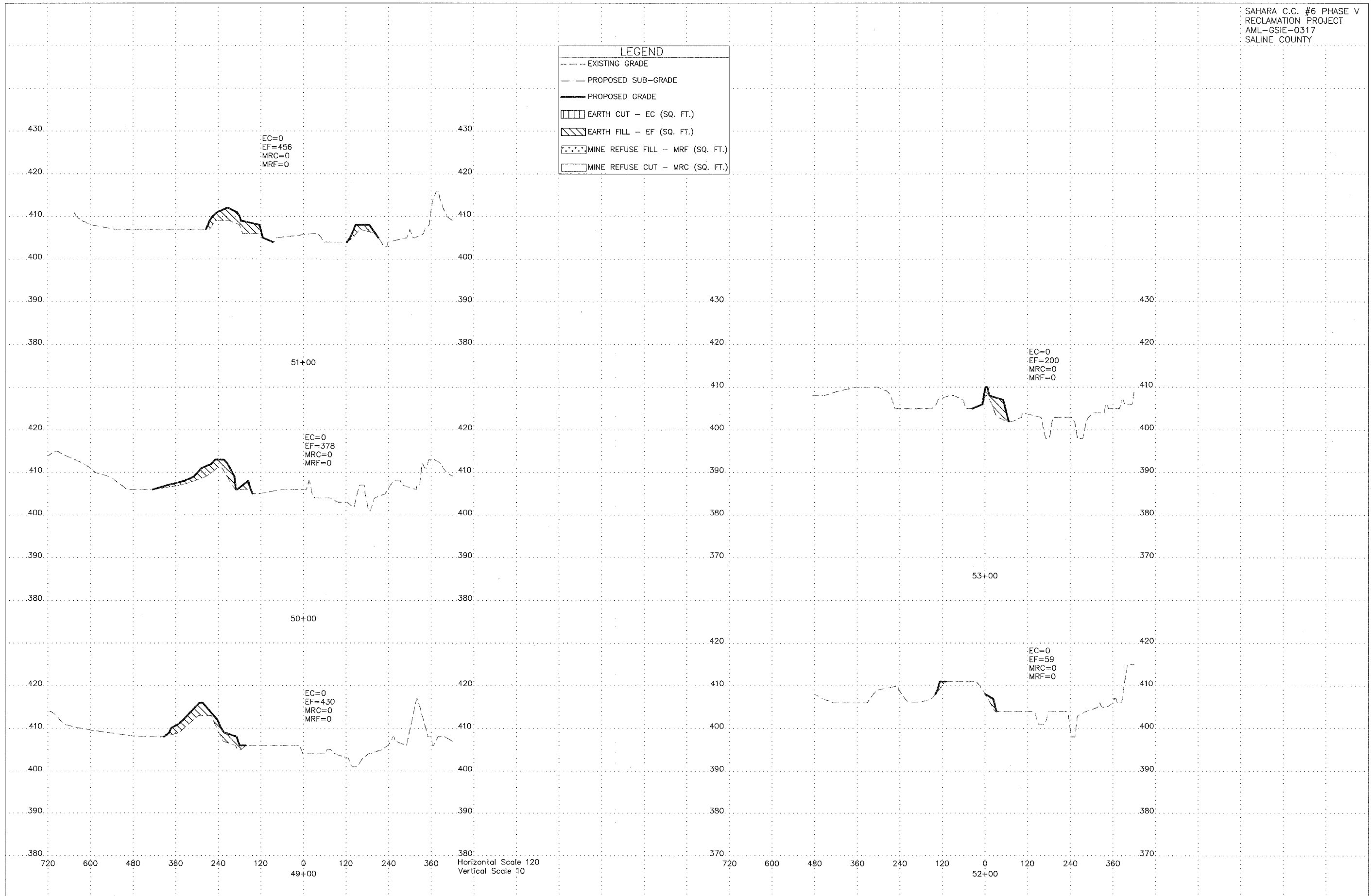
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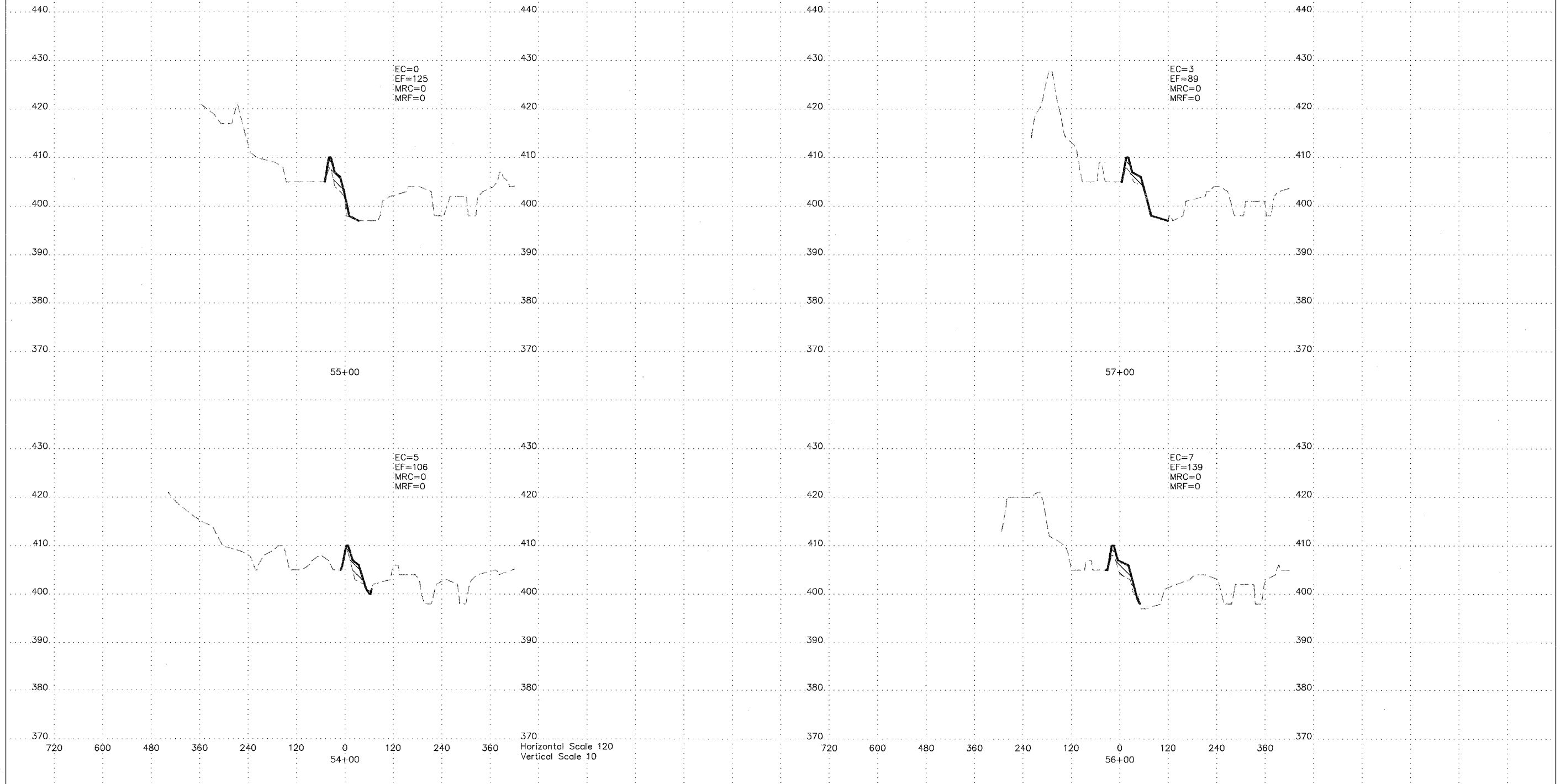
Horizontal Scale 120
Vertical Scale 10



LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)
▧	MINE REFUSE FILL - MRF (SQ. FT.)
□	MINE REFUSE CUT - MRC (SQ. FT.)

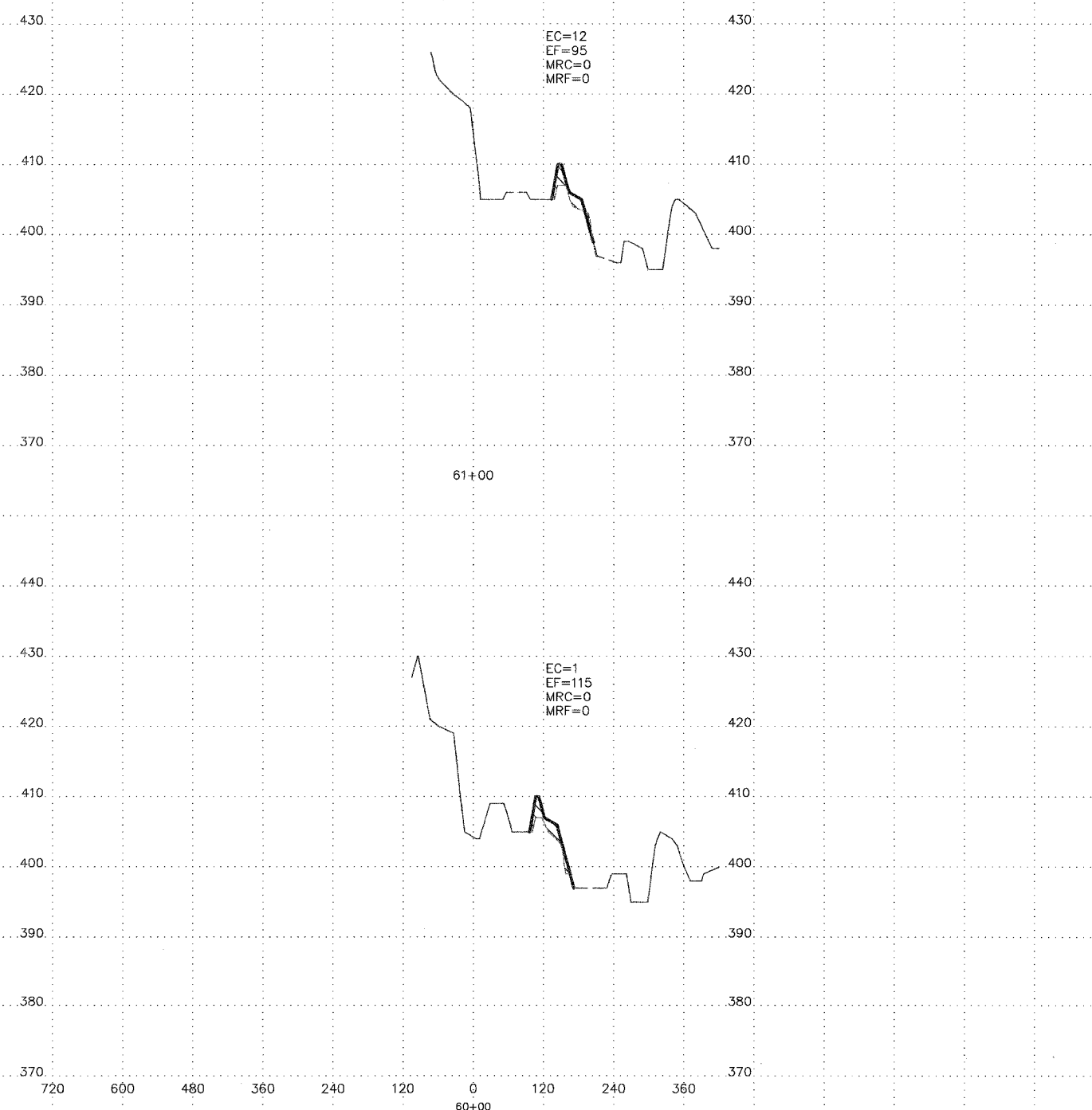
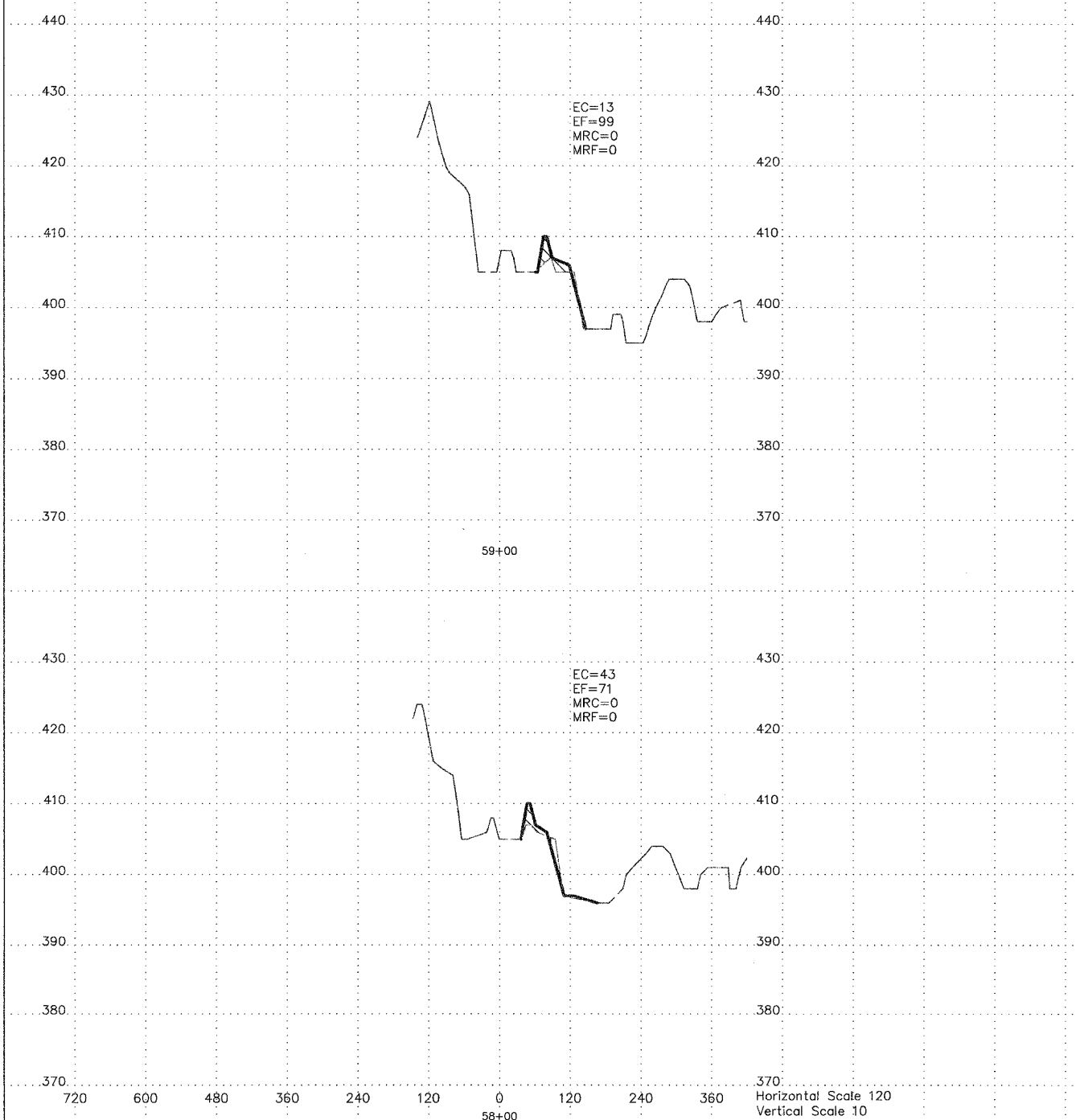


LEGEND	
---	EXISTING GRADE
- - -	PROPOSED SUB-GRADE
—	PROPOSED GRADE
▤	EARTH CUT - EC (SQ. FT.)
▥	EARTH FILL - EF (SQ. FT.)
▧	MINE REFUSE FILL - MRF (SQ. FT.)
▨	MINE REFUSE CUT - MRC (SQ. FT.)

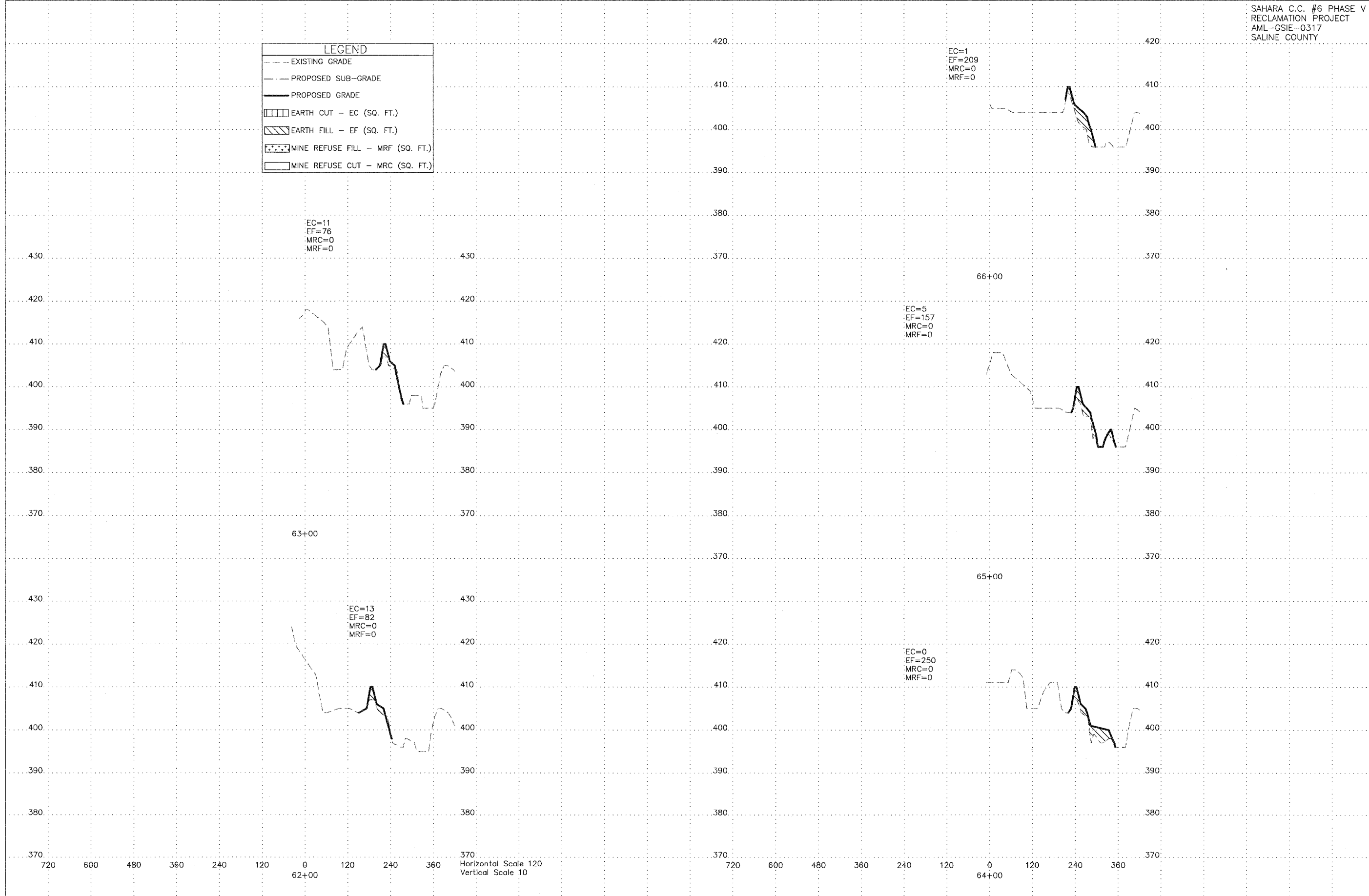


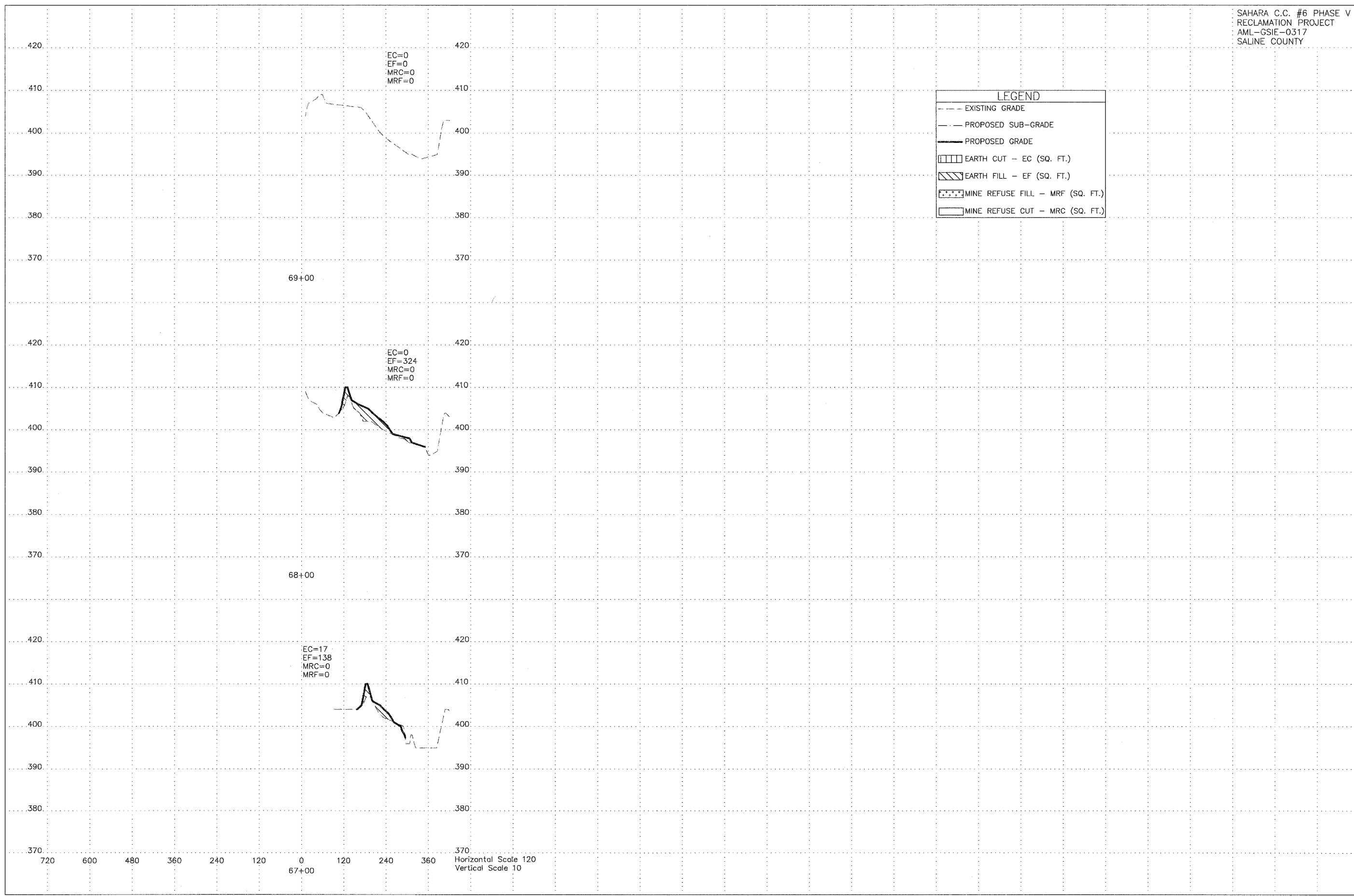
LEGEND

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



LEGEND	
- - -	EXISTING GRADE
- - -	PROPOSED SUB-GRADE
—	PROPOSED GRADE
[Hatched Box]	EARTH CUT - EC (SQ. FT.)
[Diagonal Hatched Box]	EARTH FILL - EF (SQ. FT.)
[Dotted Box]	MINE REFUSE FILL - MRF (SQ. FT.)
[White Box]	MINE REFUSE CUT - MRC (SQ. FT.)





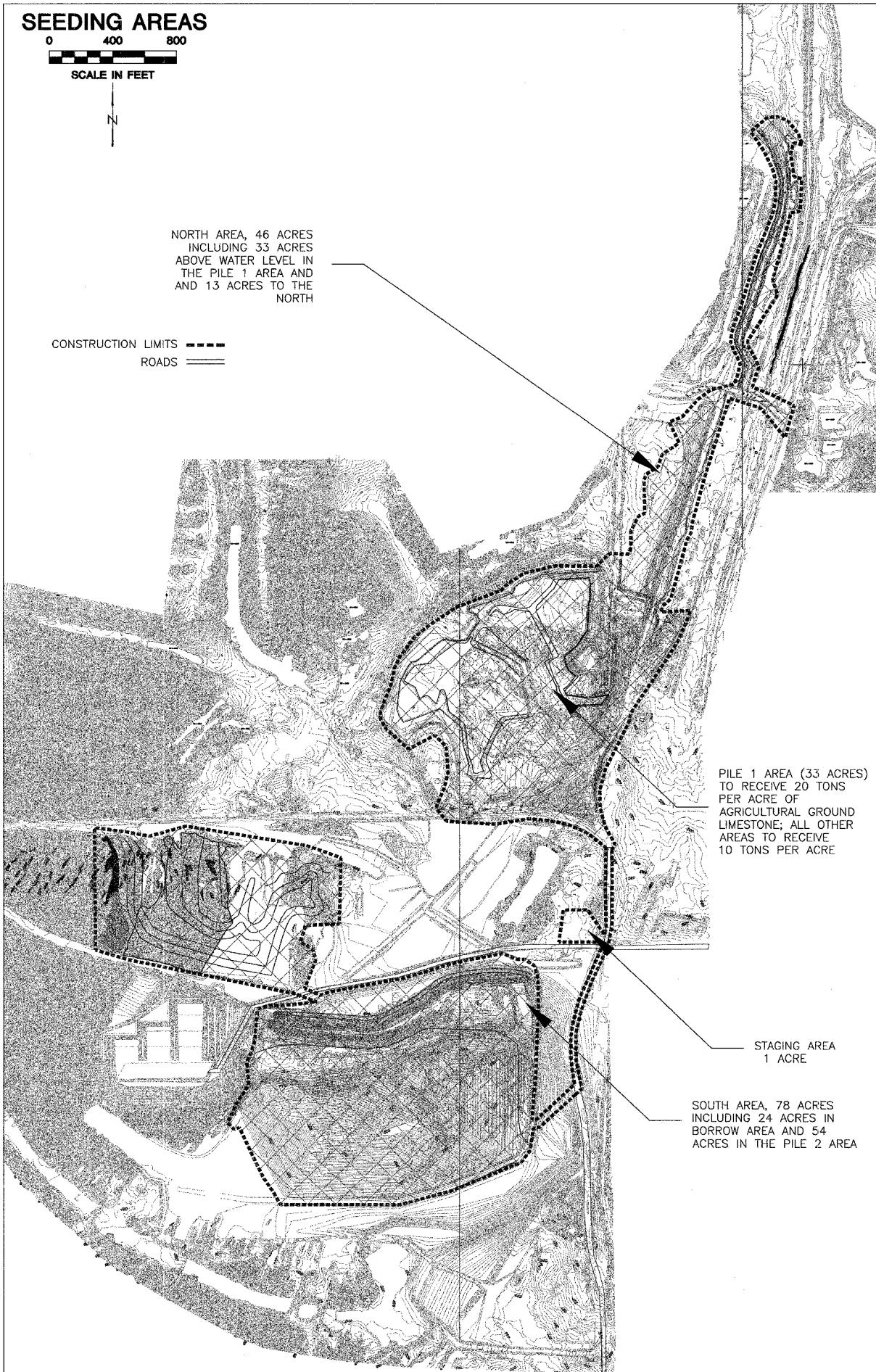
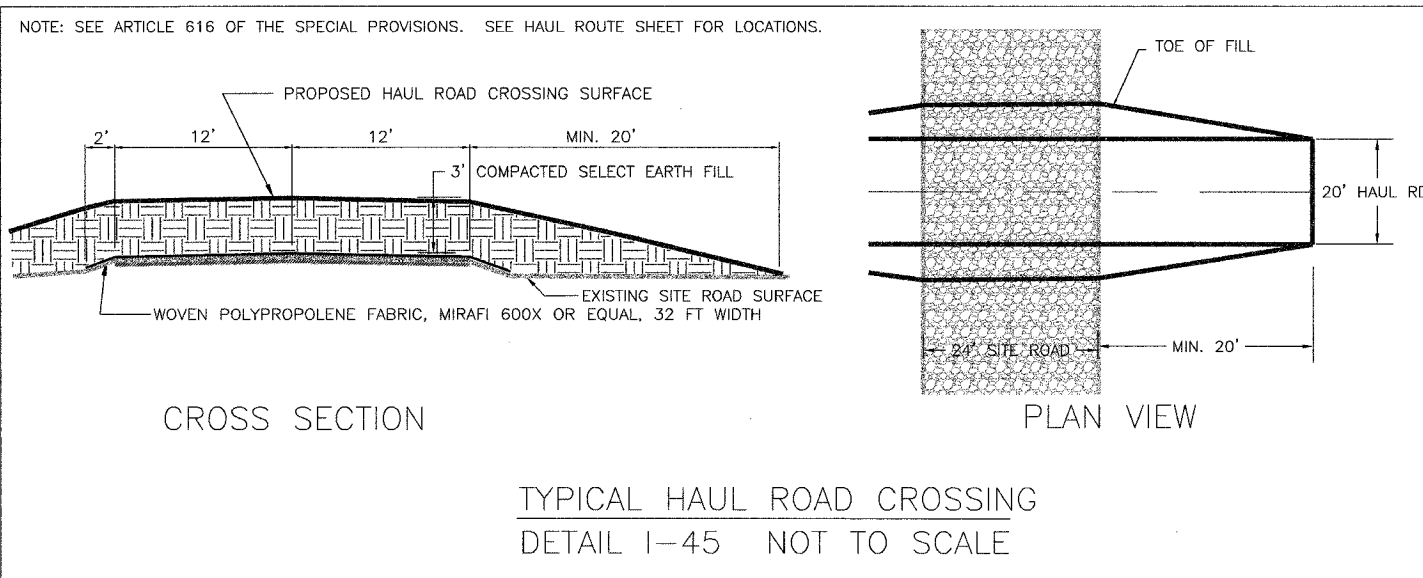
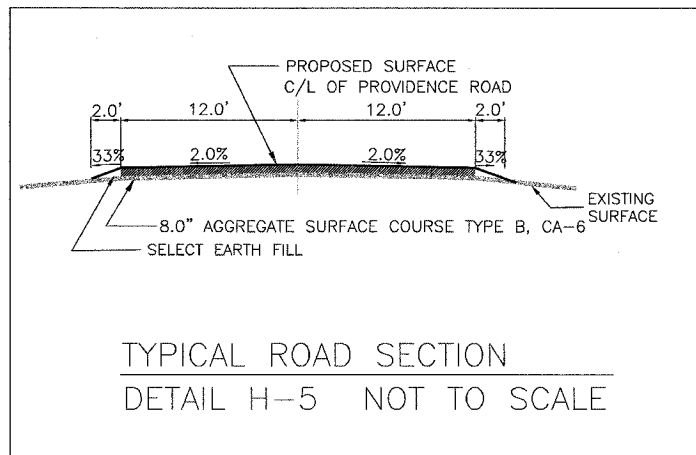
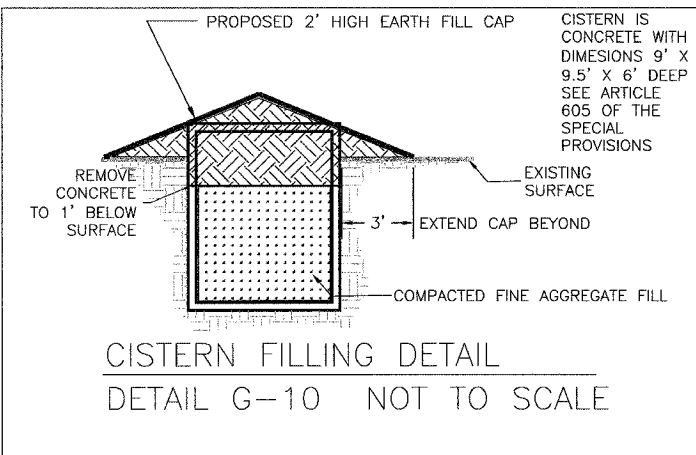
LEGEND

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

Horizontal Scale 120
Vertical Scale 10

NOTES:

1. IN ACCORDANCE WITH ARTICLE 259 OF THE SPECIAL PROVISIONS, APPROXIMATELY 127,000 C.Y. OF CEMENT KILN DUST (CKD) SHALL BE PLACED IN LIFTS WITHIN THE MINE REFUSE EXCAVATION AS IT IS PLACED IN ITS PLAN LOCATION IN REFUSE PILE 2 (SOUTH). APPROXIMATELY 43,000 C.Y. OF CKD ARE STOCKPILED ON TOP OF REFUSE PILE 1 (NORTH) AND MUST BE TRANSPORTED BY THE CONTRACTOR TO REFUSE PILE 2 FOR PLACEMENT. CKD DELIVERY TO THE REFUSE PILE 2 AREA IS ONGOING AND WILL CONTINUE UNTIL THE TOTAL OF APPROXIMATELY 127,000 C.Y. ARE ON THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS AND COORDINATING DELIVERY FOR THE CKD. CEMENT KILN DUST PLACEMENT SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCIDENTAL TO THE MINE REFUSE EXCAVATION.
2. DUE TO THE PRESENCE OF A LARGE NUMBER OF BOULDERS IN THE BORROW EXCAVATION AREA, A 10% SHRINKAGE FACTOR WAS ADDED TO ACCOUNT FOR THE ROCKS. THIS IS IN ADDITION TO A 12% SHRINKAGE FACTOR ASSUMED FOR THE SOIL. BOULDERS REMOVED FROM THE PILE ARE TO BE WINDROWED OR PILED ALONG THE BORROW AREA PERIMETER, OR AS DIRECTED BY THE ENGINEER.
3. THE DEPARTMENT WILL HAVE A SEPARATE ROAD IMPROVEMENT PROJECT UNDERWAY WHILE THIS RECLAMATION PROJECT IS OCCURRING. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 105.08 OF THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THE SHOOTING RANGE ROAD AND HAULAGE LANE ROAD WILL BE SURFACED AS PART OF THE ROAD IMPROVEMENT PROJECT. TEMPORARY ROAD CROSSINGS SHALL BE NECESSARY TO PROTECT ANY NEWLY SURFACED ROADS. ANY TEMPORARY ROAD CROSSINGS THAT MAY BE REQUIRED SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 616 OF THE SPECIAL PROVISIONS AND DETAIL I SHOWN ON THIS SHEET. THE CONTRACTOR SHALL USE ONLY THE ROADS SHOWN ON THE PLANS (SEE SHEET 3) FOR MAJOR HAUL ROUTES FOR EARTH AND MINE REFUSE EXCAVATION. PROVIDENCE ROAD AND HAULAGE ROAD ARE PUBLIC ROADS UNDER JURISDICTION OF THE CARRIER MILLS TOWNSHIP ROAD COMMISSIONER. TRAFFIC CONTROL IN ACCORDANCE WITH THE STANDARD SHOWN OF SHEET 3 OF THE PLANS SHALL BE MAINTAINED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN SAFE LOCAL ACCESS TO HAULAGE ROAD AS MUCH AS POSSIBLE DURING THE CONSTRUCTION PERIOD. THE CONSTRUCTION SHALL BE SCHEDULED TO MINIMIZE INTERRUPTION OF TRAFFIC.
4. REFUSE PILE 1 (NORTH) HAS LARGE PREVIOUSLY CONSTRUCTED DE-WATERING TRENCHES THAT ARE NOT SHOWN ON THE PLAN TOPOGRAPHY OR CROSS SECTIONS. EXCAVATED MATERIAL FROM THE TRENCHES WAS PLACED ADJACENT TO THE TRENCH. THE VOLUME IS INCLUDED IN THE MINE REFUSE EXCAVATION QUANTITY.
5. ANY RAILROAD TIES ENCOUNTERED IN THE EXCAVATION SHALL BE NEATLY STACKED ON SITE, IN AN AREA APPROVED BY THE ENGINEER. ANY RAILS OR TIES SHALL NOT BE SALVAGED OR REMOVED FROM THE SITE. THE DEPARTMENT MAY HAVE A SEPARATE RAILROAD REMOVAL PROJECT UNDERWAY WHILE THIS RECLAMATION PROJECT IS OCCURRING. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 105.08 OF THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
6. IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, THE CONTRACTOR SHALL INSTALL THE PERIMETER EROSION BARRIER PRIOR TO THE COMMENCEMENT OF ANY GRADING WORK.

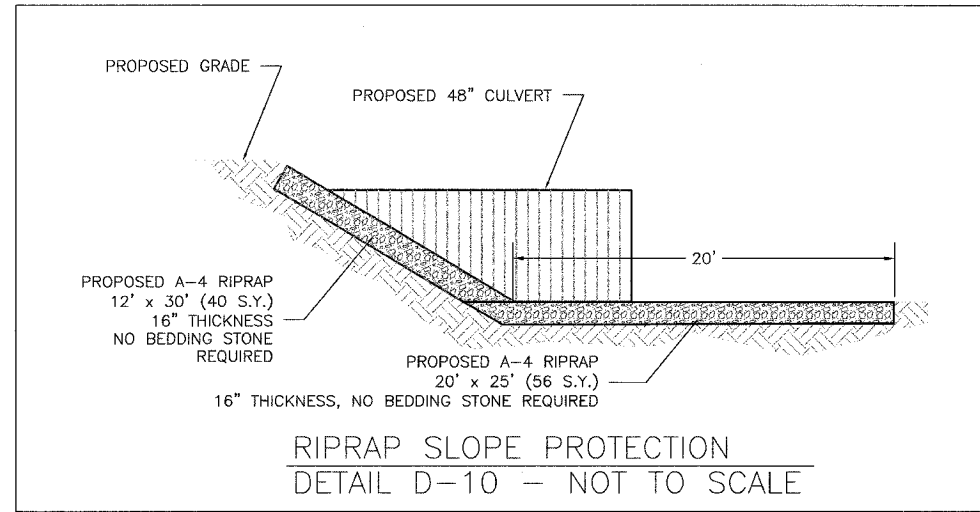
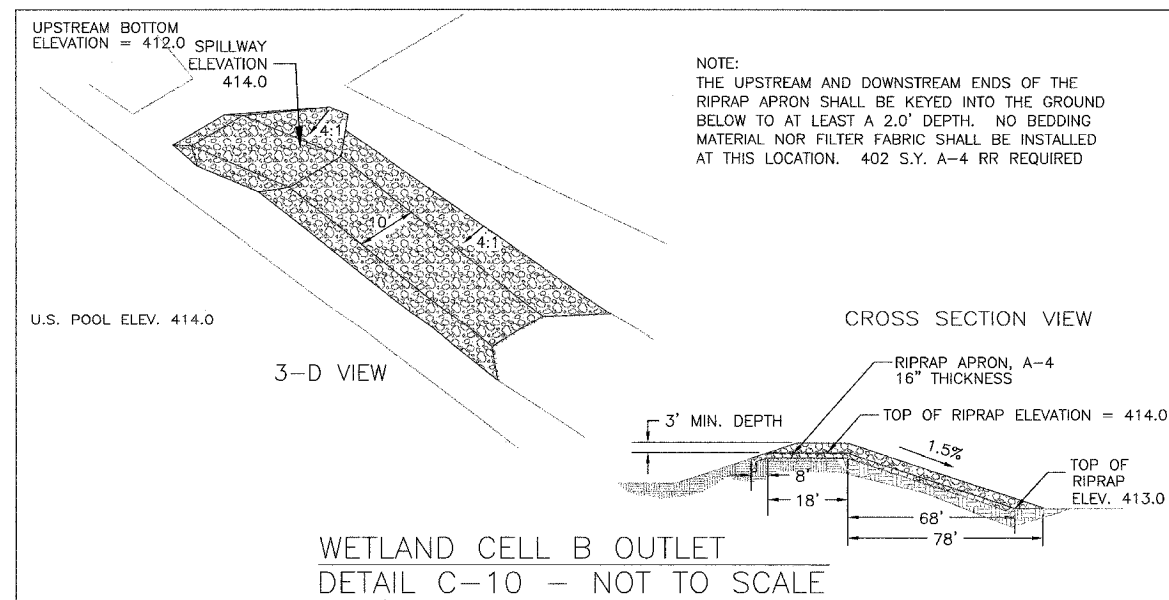
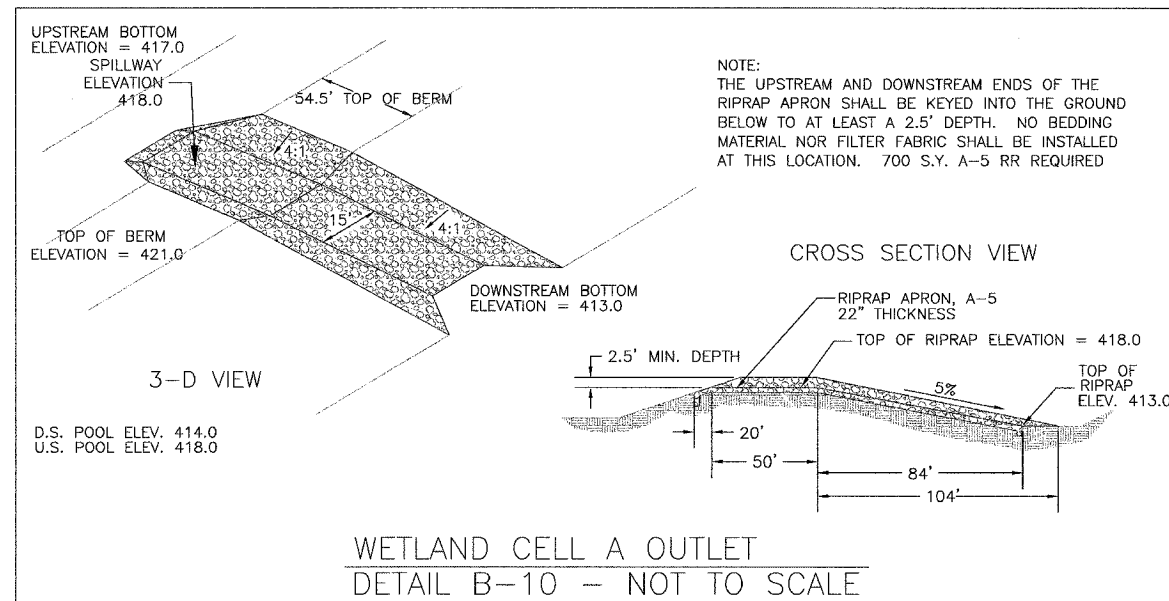
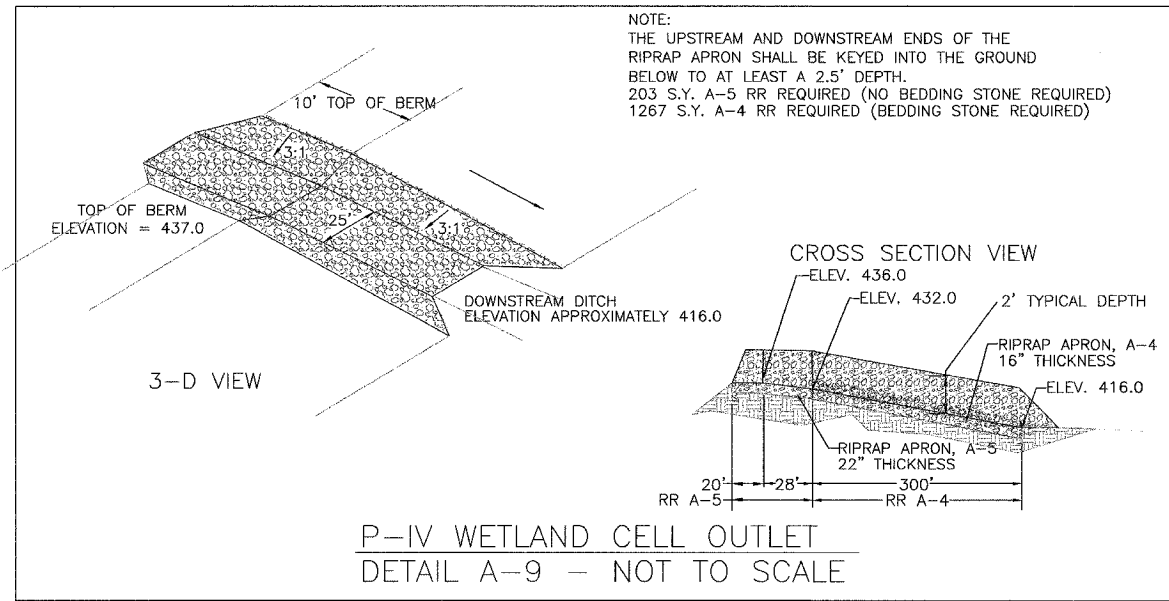


**State of Illinois
 Department of Natural Resources**

**Sahara C.C. #6 Phase V
 Reclamation Project
 AML-GSIE-0317
 Saline County**

Drawn By: M.T.
 Checked By:
 Date: 11-2005
 01/10/06
 2/19/06

Notes
Sheet 43 of 45



SPACING LETTERS

2.0"
1.5"
1.5"
1.5"
1.5"
3.5"
3.5"
3.0"
3.5"
1.5"
1.5"
3.5"
1.5"
2.0"
2.0"

RECLAMATION PROJECT
of the
DEPARTMENT OF NATURAL RESOURCES
STATE OF ILLINOIS

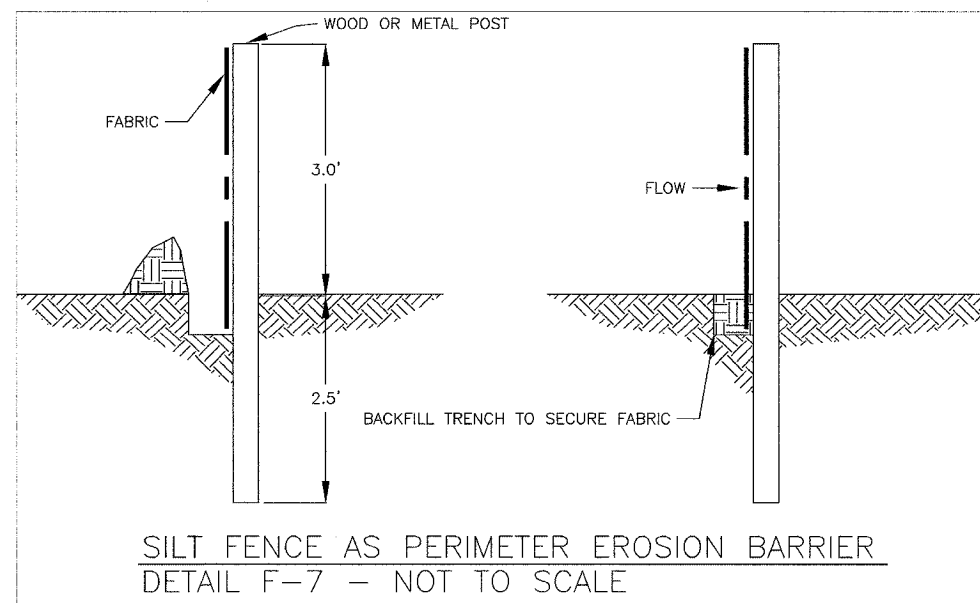
ROD R. BLAGOJEVICH, GOVERNOR

Sam Flood, Acting Director
Department of Natural Resources

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

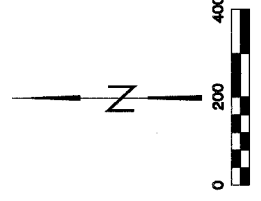
- Furnishing, erecting and removing the sign shall be incidental to the contract.
- The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
- The posts shall be made of 4" x 4" wood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

CONSTRUCTION SIGN
DETAIL E-5 - NOT TO SCALE
EXACT LOCATION TO BE SET BY ENGINEER

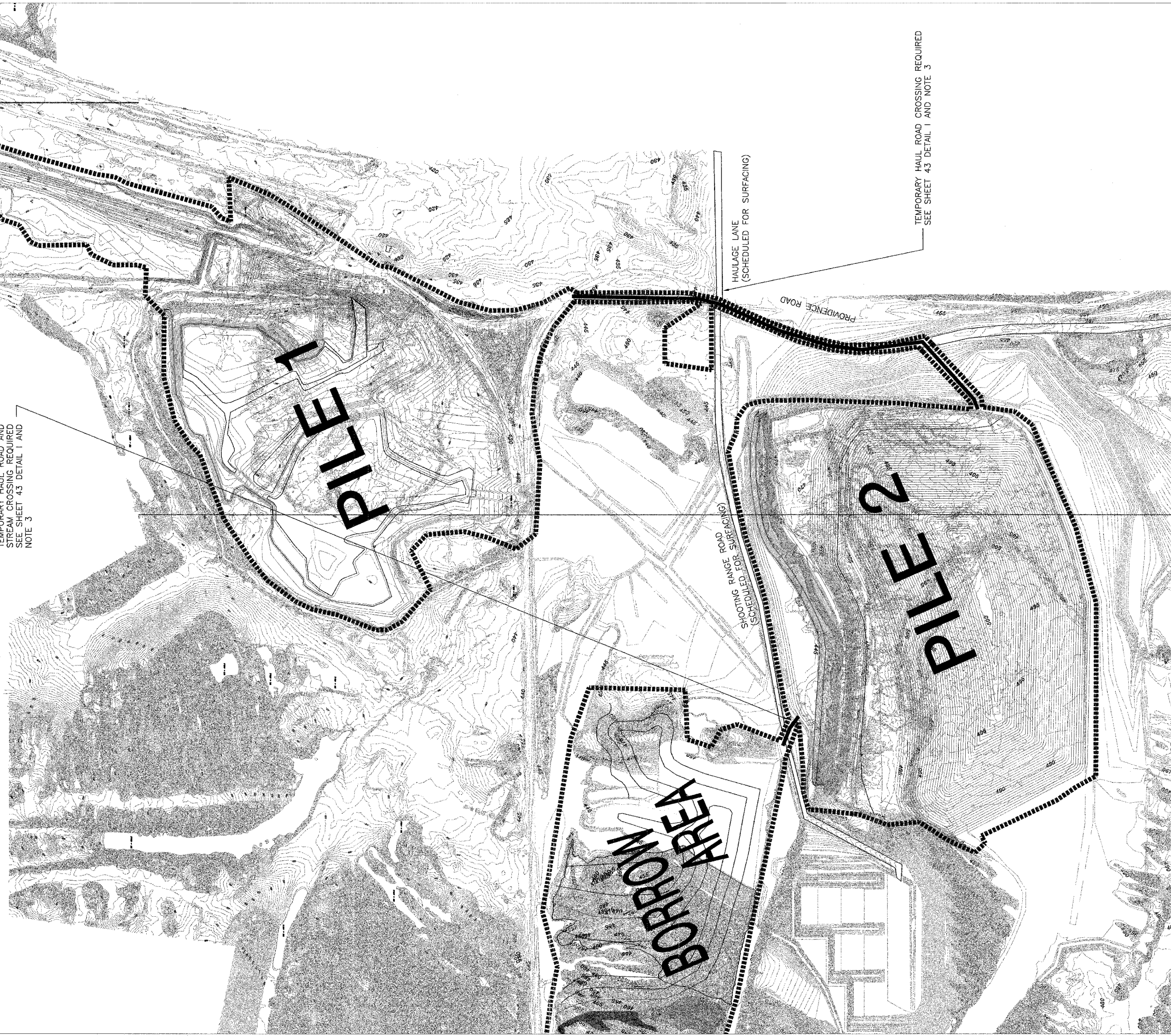


LOCATIONS REQUIRED FOR PRINCIPAL HAULAGE ROUTES

- CONSTRUCTION LIMITS
- PRINCIPAL HAULAGE ROUTES
- EXISTING PUBLIC/SITE ROADS



TEMPORARY HAUL ROAD AND
STREAM CROSSING REQUIRED
SEE SHEET 43 DETAIL 1 AND
NOTE 3



Drawn By: M.T. Date: 11-2005
 Checked By:

Sahara C.C. #6 Phase V
 Reclamation Project
 AML-GSIE-0317
 Saline County

State of Illinois
 Department of Natural Resources