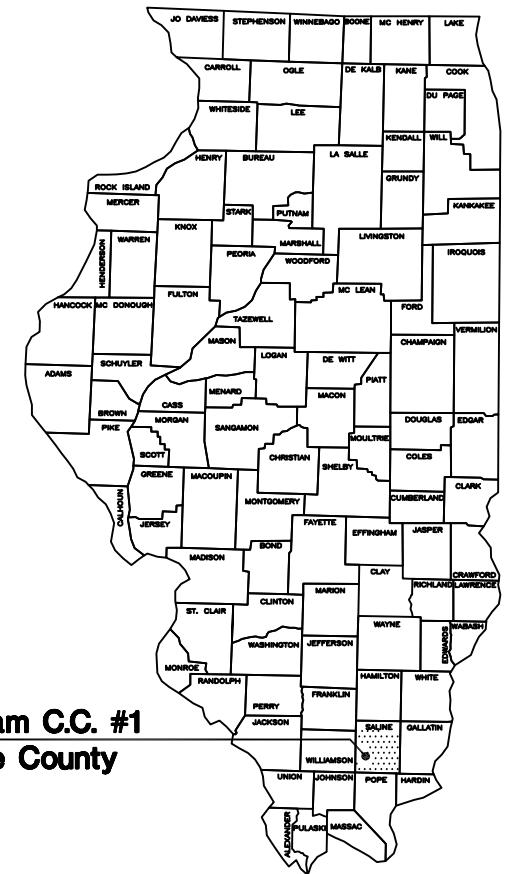


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands Reclamation

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

Lanham C.C. #1
Reclamation Project
AML-GSIE-1701
Saline County
1 LR



Lanham C.C. #1
Saline County

Certified Copy

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes
3. Lanham C.C. #1 - Existing Conditions
4. Lanham C.C. #1 - Proposed Conditions
- 5-12. Lanham C.C. #1 - Cross Sections
13. Details

CONTRACT NO. M-1701

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M., TUESDAY, SEPTEMBER 12TH, 2017. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE CARRIER MILLS PARK, AT THE INTERSECTION OF CARRIER MILLS ROAD AND TOWN PARK ROAD, CARRIER MILLS.

Prepared By IDNR Staff

Approved for Bidding:

Thomas A. Benner, Director
 Office of Mines and Minerals

Approved By:

Greg Pinto, Acting Manager
 AMLR Division

Approved By:

Olga Moya Aranzubia, P.E.
 IL Licensed Professional Engineer
 No. 062-062471



Summary of Quantities						
Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	SPECIAL CLEARING	201	1	L SUM	COMPACTION PER SECTION 205
NRM20210	2	EARTH EXCAVATION	202	46,116	CU YD	
NRM20230	3	MINE REFUSE EXCAVATION	202	37,599	CU YD	
NRM21510	4	SPECIAL EXCAVATION	215	1,372	CU YD	
NRM21621	5	CA-FILL, CA-1	216	159	TON	
NRM21644	6	ROCKFILL, RR-4	216	859	TON	
NRM25040	7	NITROGEN FERTILIZER NUTRIENT	250	3,160	POUND	SEE SCHEDULE BELOW
NRM25050	8	PHOSPHOROUS FERTILIZER NUTRIENT	250	1,896	POUND	
NRM25060	9	POTASSIUM FERTILIZER NUTRIENT	250	3,002	POUND	
NRM25070	10	AGRICULTURAL GROUND LIMESTONE	250	79	TON	5.0 TON / ACRE
NRM25090	11	SEEDING	250	15.8	ACRE	
25100115	12	MULCH METHOD 2	IDOT 251	15.8	ACRE	PROCEDURE 1, 2 TON/ACRE
NRM25510	13	MINE REFUSE TREATMENT - LIMESTONE	255	112	TON	56 TON / ACRE
NRM25810	14	MOWING	258	15.8	ACRE	
NRM28040	15	PERIMETER EROSION BARRIER	280	2,872	FOOT	SILT FENCE REQUIRED IDOT 280001-07
28100107	16	STONE RIPRAP, CLASS A4	IDOT 281	130	SQ YD	18 INCHES THICK
NRM50101	17	REMOVAL OF EXISTING STRUCTURES	501	1	L SUM	
NRM66610	18	MINE OPENING MARKER	666	2	EACH	
NRM67110	19	MOBILIZATION (MAX 6% OF BID)	671	1	L SUM	

GENERAL NOTES

Unless otherwise noted on the plans, all disturbed areas within the construction limits will be amended with agricultural ground limestone, fertilizer nutrients, seeded, and mulched at the required rates specified in the plans.

The Contractor is responsible for visiting the site and familiarizing himself with the existing conditions and the proposed reclamation work prior to submitting a bid.

The Contractor shall provide and pay for all field engineering services to execute the project as specified in the Field Engineering section of the Special Provisions.

The Contractor is responsible for locating and protecting all existing utility lines pertaining to the work.

Unless noted on the plans, all onsite access roads may be used for construction and must be maintained during construction and restored to original or better condition at the completion of work by the contractor. Access roads to the site as designated in the plans are to be maintained to the satisfaction of the engineer.

The construction limits will be staked by the contractor prior to construction. The contractor is responsible for the repair and or restitution at his own expense for all damaged 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 shall be removed by March 14, 2018 and shall be disposed of per Section 201 and 202 of the Special Provisions.

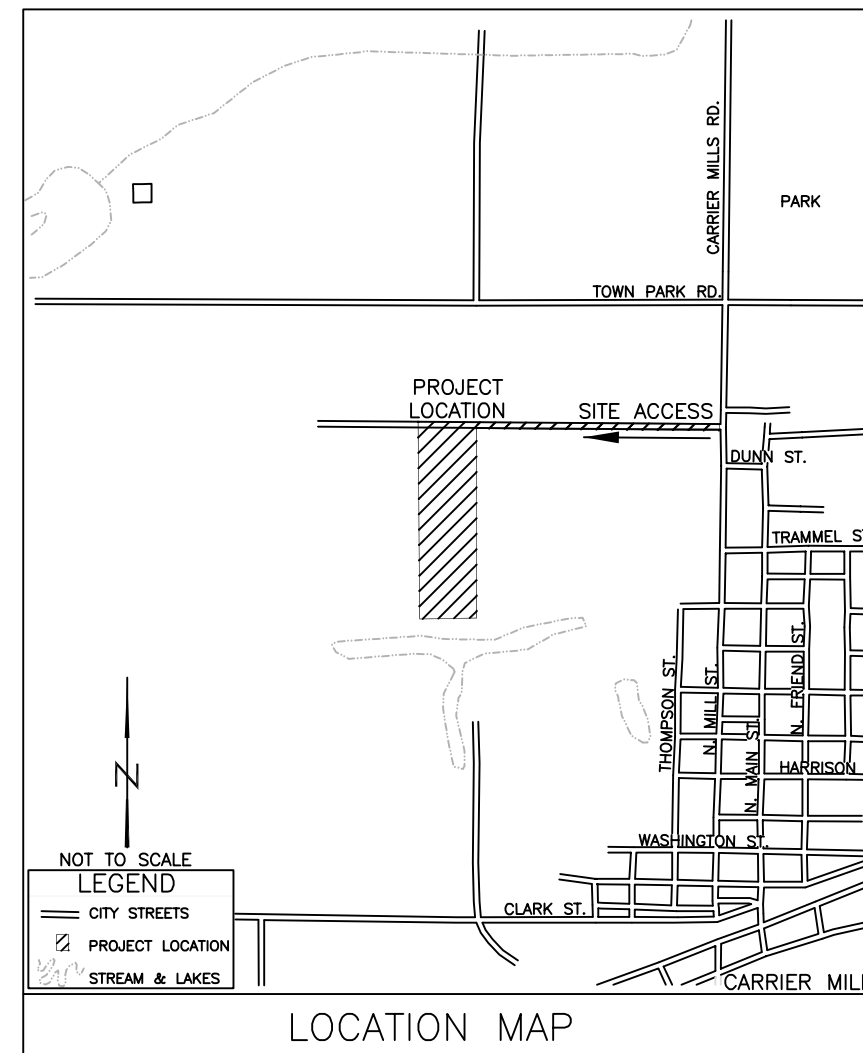
ACID WATER TREATMENT - If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

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.

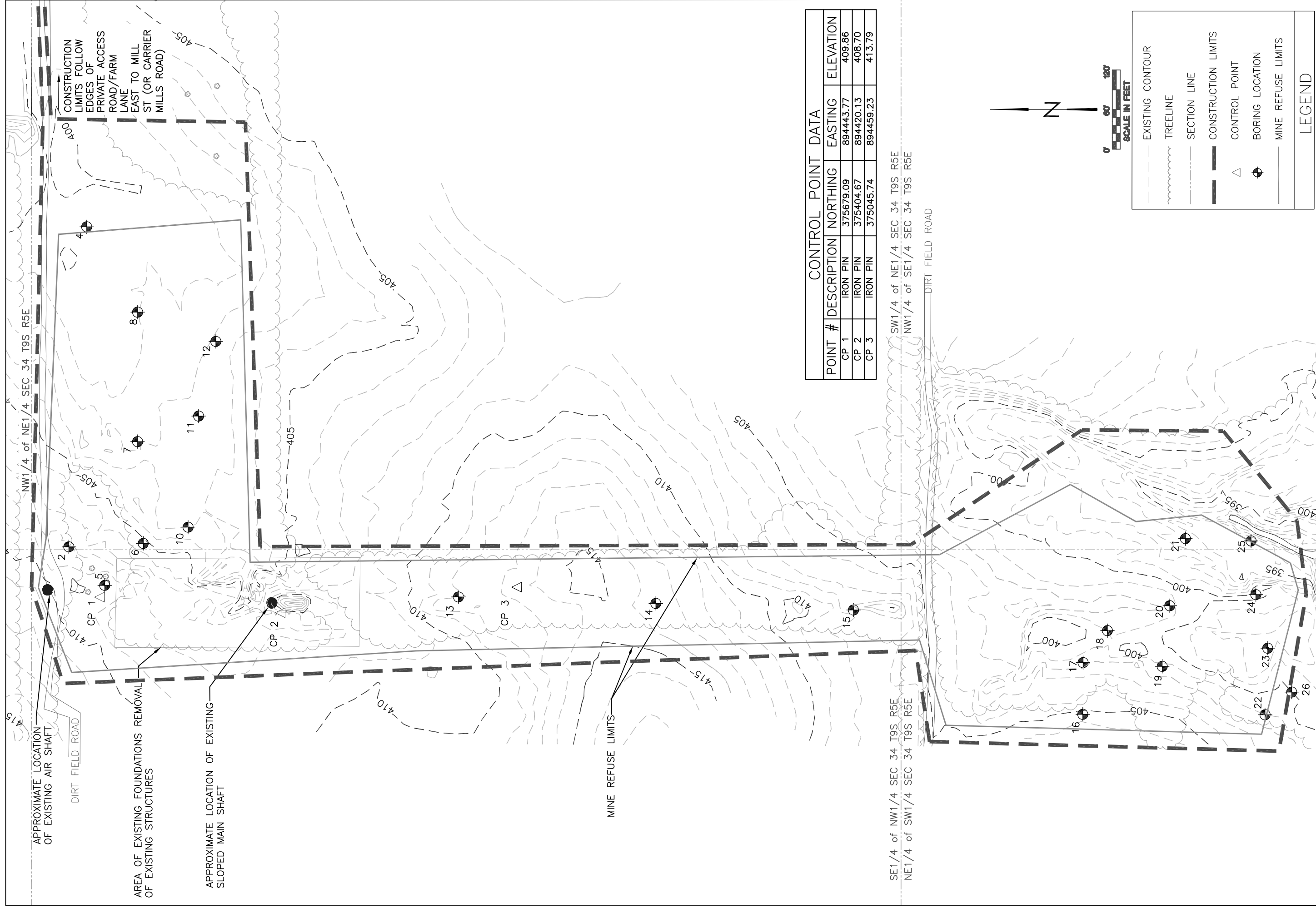
AGRICULTURAL GROUND LIMESTONE-Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

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 disc approved by the Engineer. Treated areas shall then be covered with 33 inches of soil.



Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing				
ITEM (unit)	INITIAL APPLICATION AUG. 20-SEPT. 30 2018	FINAL APPLICATION JAN. 1-MARCH 15, 2019	SPRING MAY 15-JUNE 15, 2019	TOTAL QUANTITY
SEEDING (acres)	15.8			15.8
AGRICULTURAL GROUND LIMESTONE (tons)	79 5.0 T/A			79
NITROGEN FERTILIZER NUTRIENT (pounds)	1,580 100 Lb./A	1,580 100 Lb./A		3,160
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,896 120 Lb./A			1,896
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,002 190 Lb./A			3,002
MULCH, METHOD 2 PROCEDURE 1 (acres)	15.8 2 T/A			15.8
MOWING (acres)			15.8 ACRES	15.8



CONTROL POINT DATA

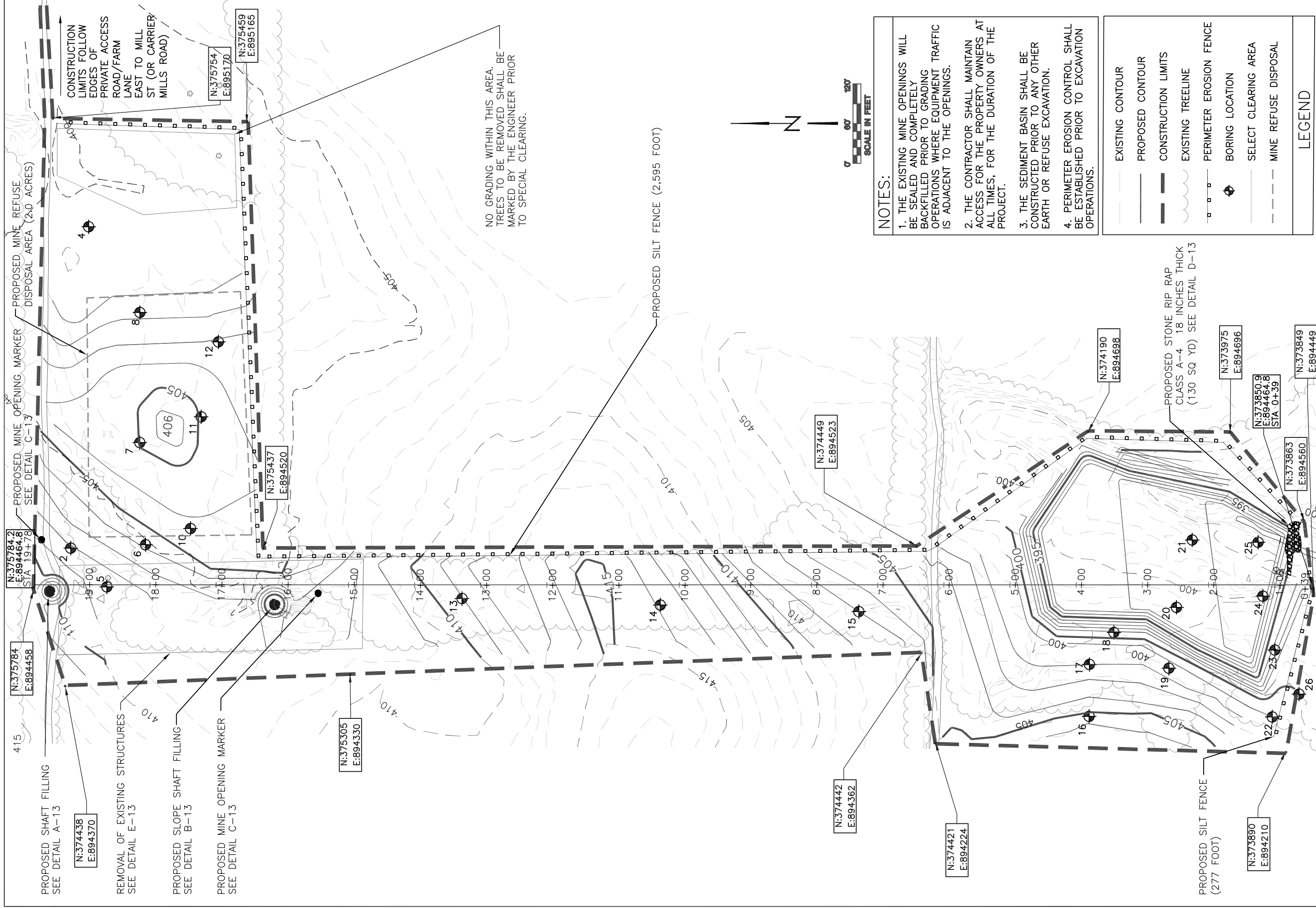
POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP 1	IRON PIN	375679.09	894443.77	409.86
CP 2	IRON PIN	375404.67	894420.13	408.70
CP 3	IRON PIN	375045.74	894459.23	413.79

SE1/4 of NW1/4 SEC 34 T9S R5E
 NE1/4 of SW1/4 SEC 34 T9S R5E
 SW1/4 of NE1/4 SEC 34 T9S R5E
 NW1/4 of SE1/4 SEC 34 T9S R5E



LEGEND

	EXISTING CONTOUR
	TREELINE
	SECTION LINE
	CONSTRUCTION LIMITS
	CONTROL POINT
	BORING LOCATION
	MINE REFUSE LIMITS



CONSTRUCTION LIMITS FOLLOW EDGES OF PRIVATE ACCESS ROAD/FARM LANE EAST TO MILL ST (OR CARRIER MILLS ROAD)

NO GRADING WITHIN THIS AREA. TREES TO BE REMOVED SHALL BE MARKED BY THE ENGINEER PRIOR TO SPECIAL CLEARING.

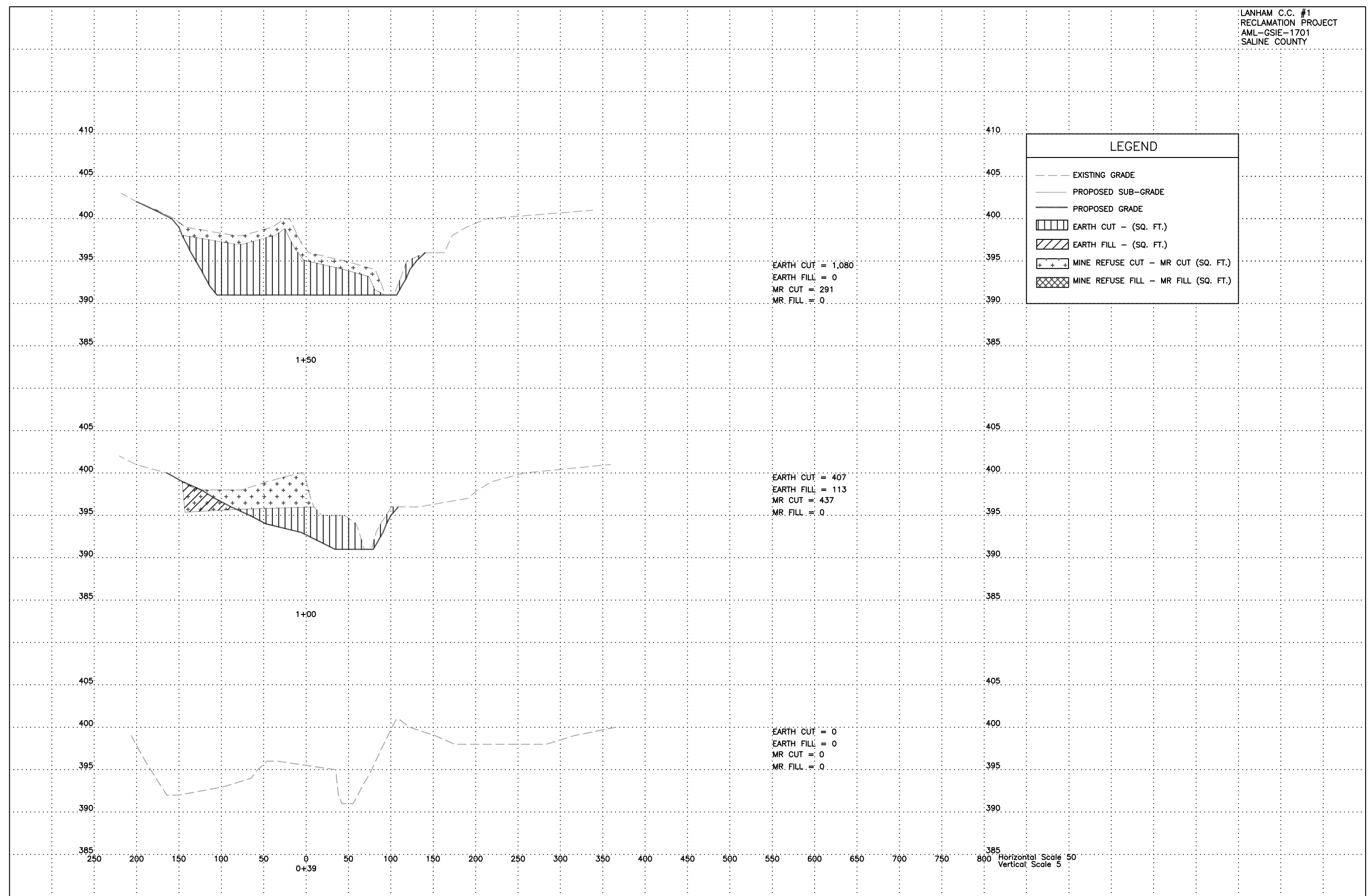
PROPOSED SILT FENCE (2,595 FOOT)

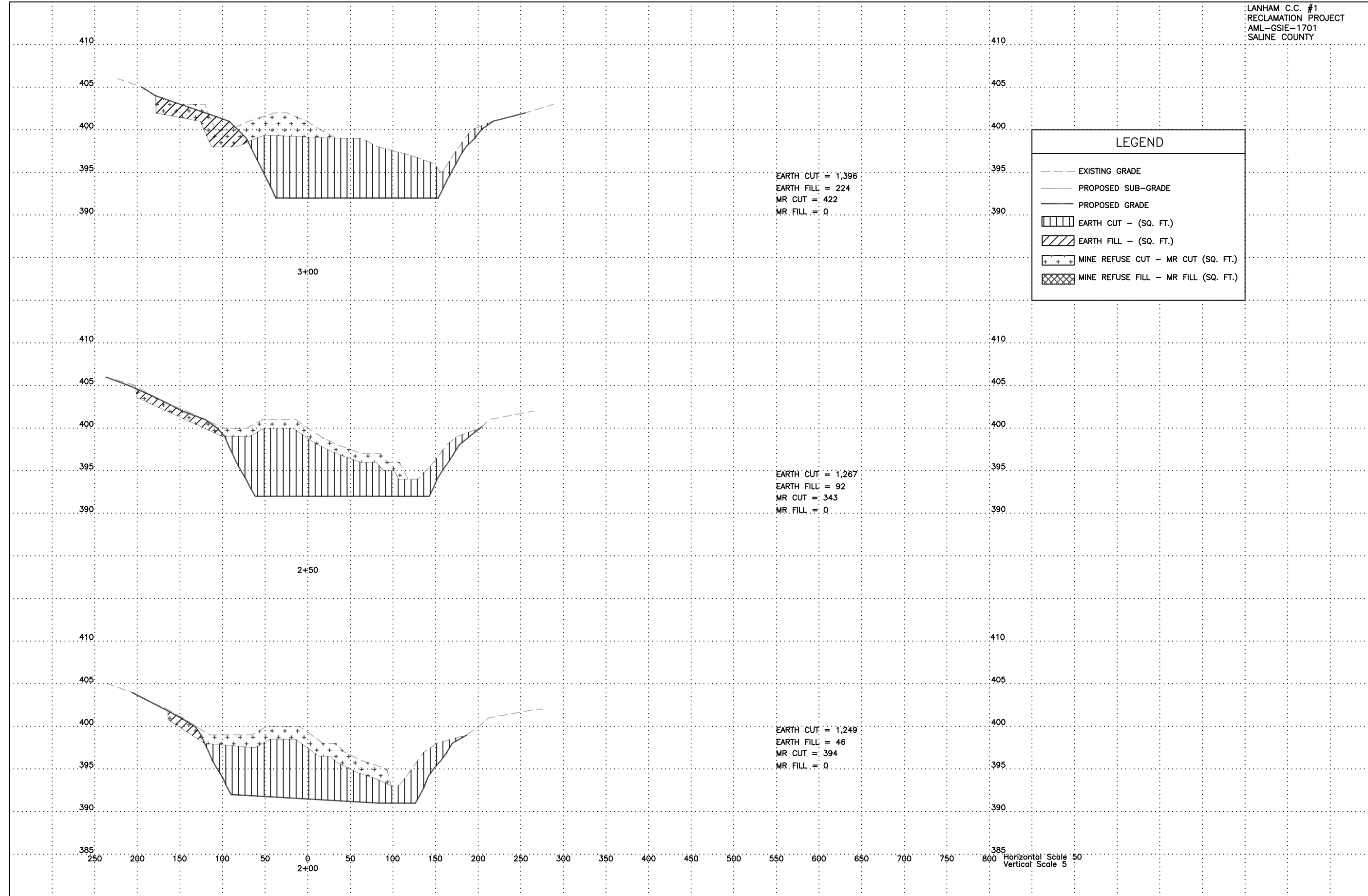
PROPOSED STONE RIP RAP CLASS A-4 18 INCHES THICK (130 SQ YD) SEE DETAIL D-13

PROPOSED SILT FENCE (277 FOOT)

- NOTES:**
1. THE EXISTING MINE OPENINGS WILL BE SEALED AND COMPLETELY BACKFILLED PRIOR TO GRADING OPERATIONS WHERE EQUIPMENT TRAFFIC IS ADJACENT TO THE OPENINGS.
 2. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR THE PROPERTY OWNERS AT ALL TIMES, FOR THE DURATION OF THE PROJECT.
 3. THE SEDIMENT BASIN SHALL BE CONSTRUCTED PRIOR TO ANY OTHER EARTH OR REFUSE EXCAVATION.
 4. PERIMETER EROSION CONTROL SHALL BE ESTABLISHED PRIOR TO EXCAVATION OPERATIONS.

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EXISTING TREELINE
	PERIMETER EROSION FENCE
	BORING LOCATION
	SELECT CLEARING AREA
	MINE REFUSE DISPOSAL
LEGEND	

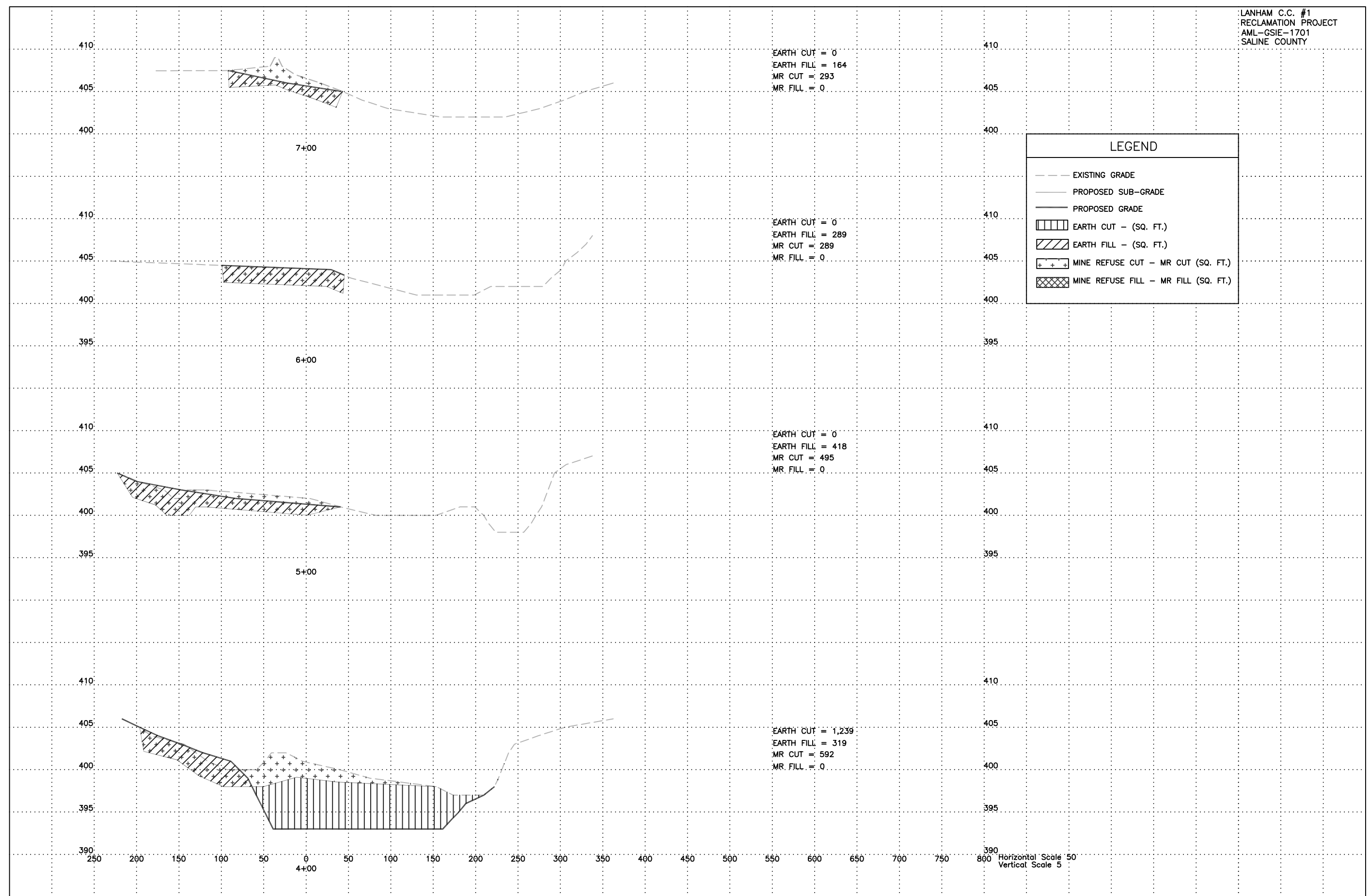




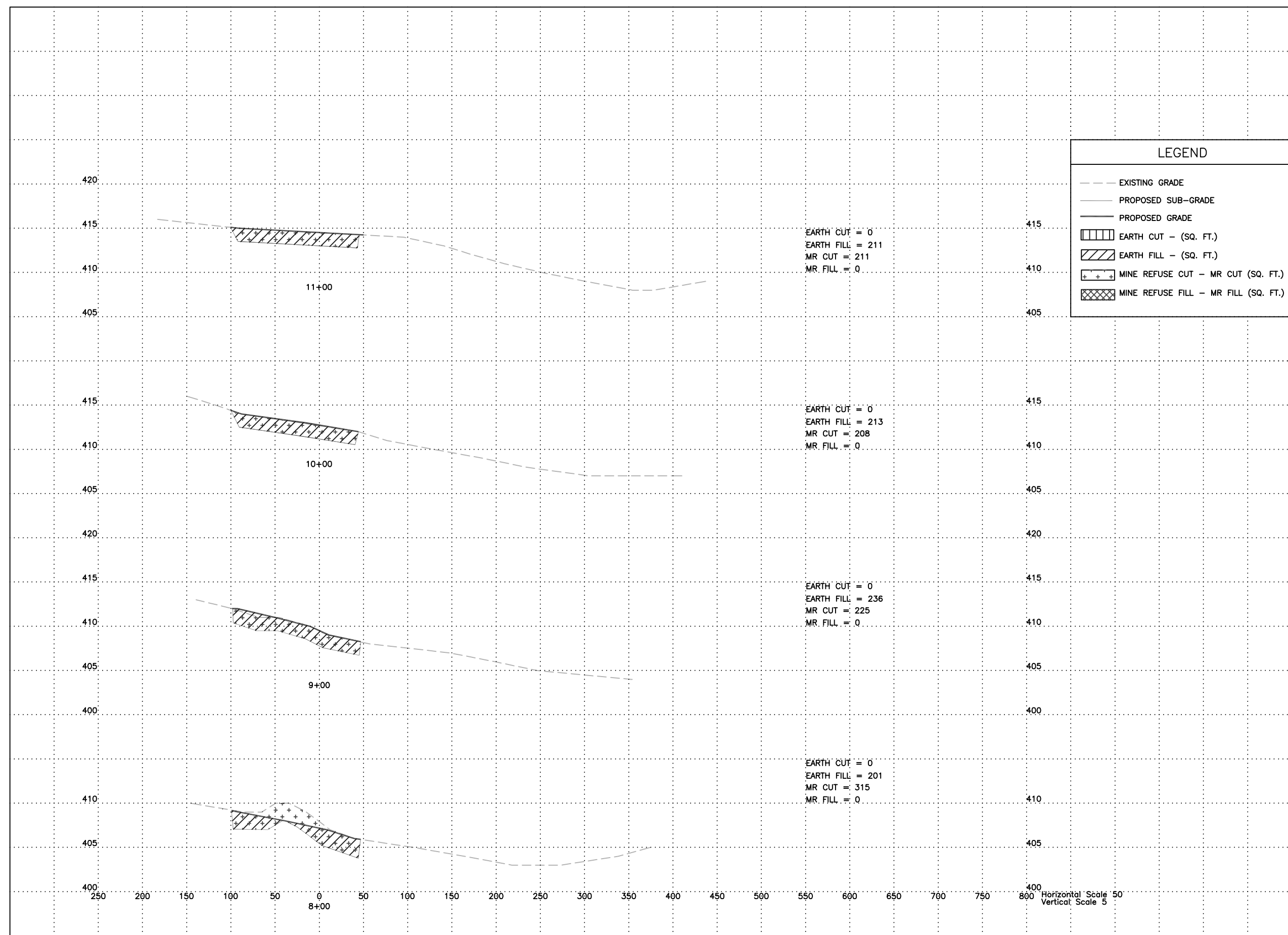
LEGEND

- EXISTING GRADE
- PROPOSED SUB-GRADE
- PROPOSED GRADE
- ||||| EARTH CUT - (SQ. FT.)
- /// EARTH FILL - (SQ. FT.)
- + + + MINE REFUSE CUT - MR CUT (SQ. FT.)
- xxx MINE REFUSE FILL - MR FILL (SQ. FT.)

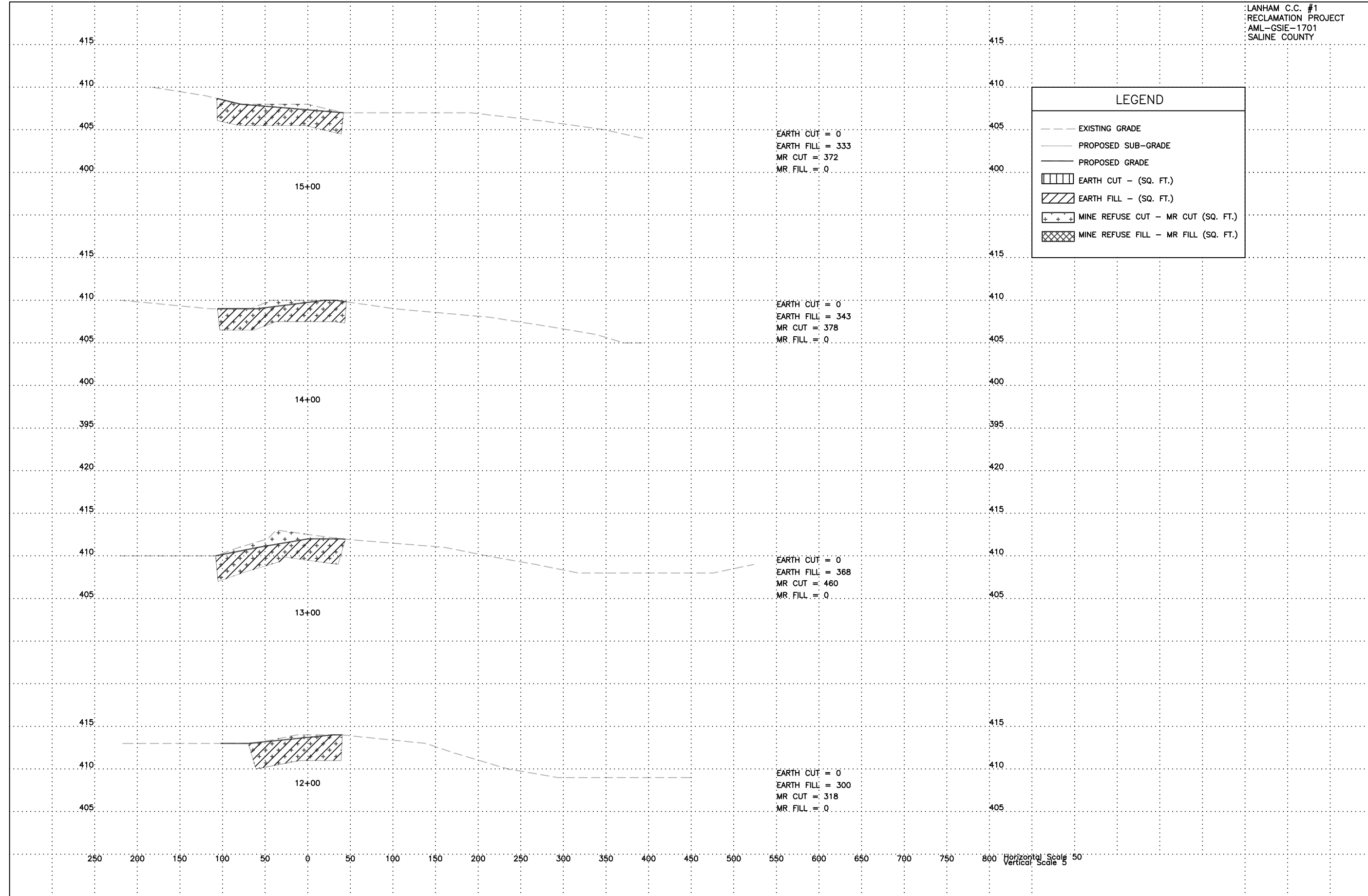
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 Vertical Scale 5

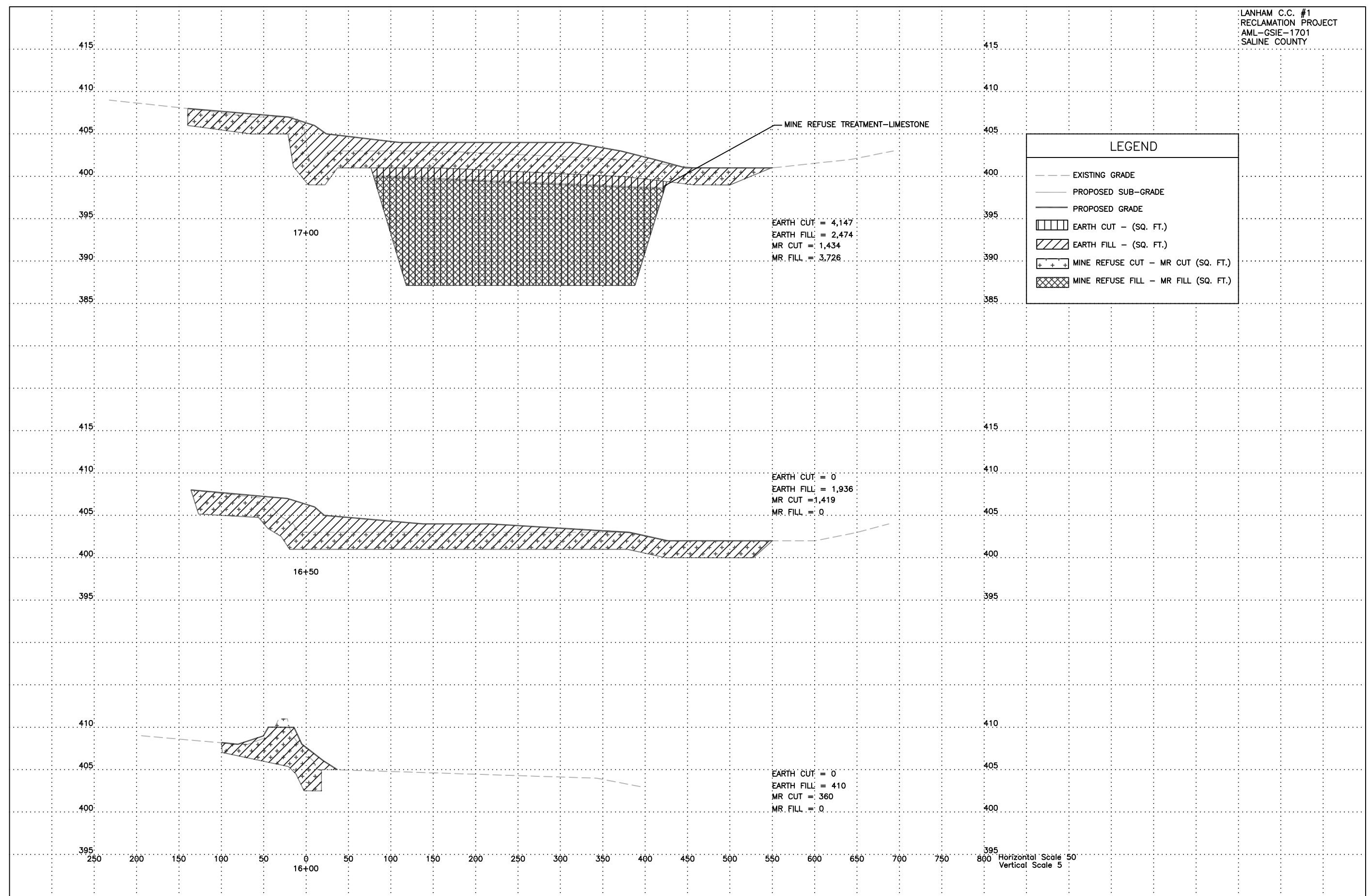


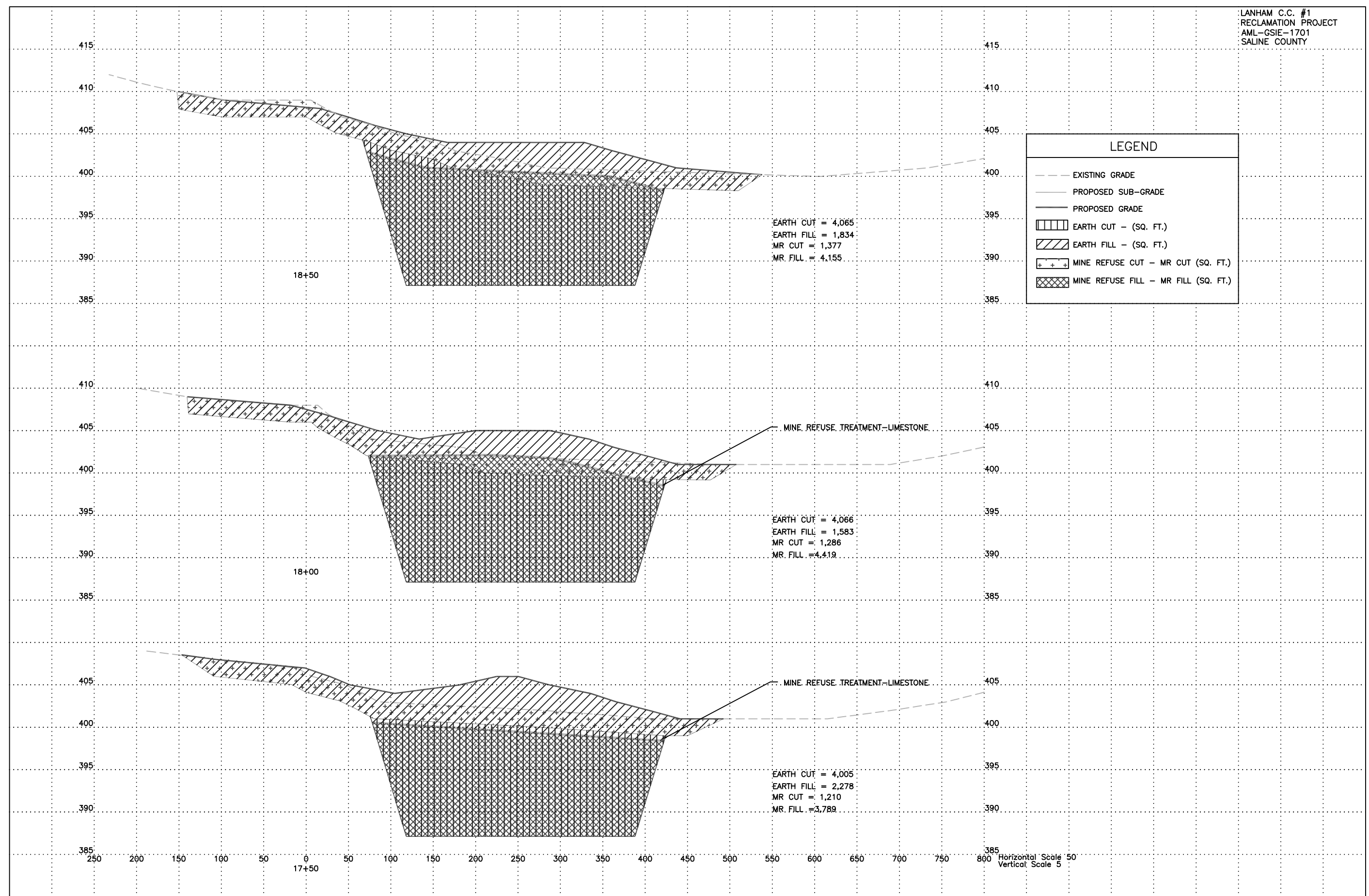
LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE
---	PROPOSED GRADE
[Hatched Box]	EARTH CUT - (SQ. FT.)
[Hatched Box]	EARTH FILL - (SQ. FT.)
[Box with +]	MINE REFUSE CUT - MR CUT (SQ. FT.)
[Cross-hatched Box]	MINE REFUSE FILL - MR FILL (SQ. FT.)



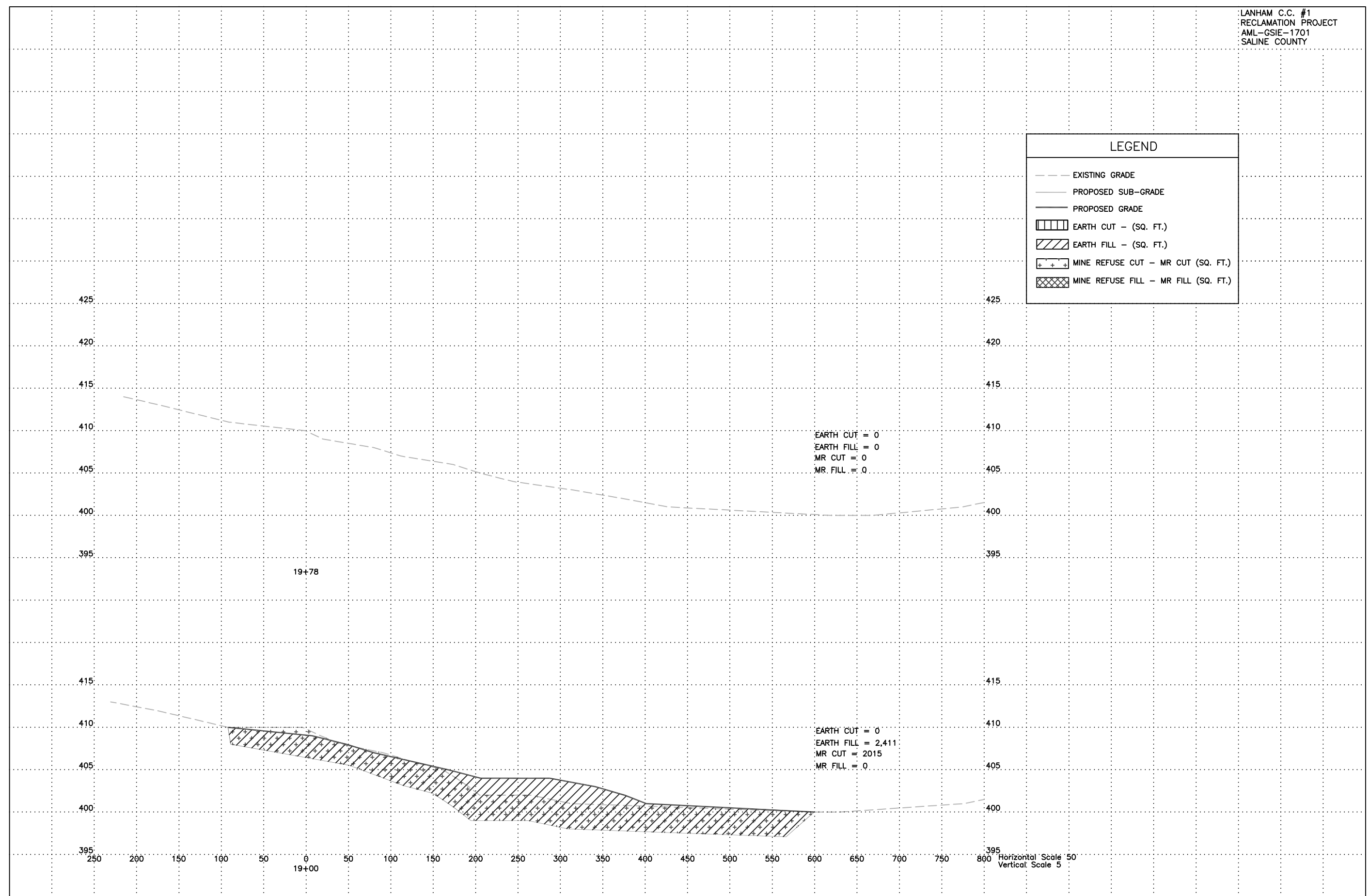
Horizontal Scale 50
 Vertical Scale 5







LEGEND	
---	EXISTING GRADE
---	PROPOSED SUB-GRADE
---	PROPOSED GRADE
[Vertical Lines]	EARTH CUT - (SQ. FT.)
[Diagonal Lines]	EARTH FILL - (SQ. FT.)
[Cross-hatch]	MINE REFUSE CUT - MR CUT (SQ. FT.)
[Cross-hatch]	MINE REFUSE FILL - MR FILL (SQ. FT.)



Horizontal Scale 50
 Vertical Scale 5

NOTES:

1. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE VERTICAL OPENING AREAS DUE TO THE UNKNOWN CONDITION OF THE OPENINGS AND THE UNKNOWN STABILITY OF THE SURROUNDING AREAS.
2. BASED UPON CONDITIONS ENCOUNTERED AS THE SPECIAL EXCAVATION PROCESS IS COMPLETED, THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE VOLUME OF SPECIAL EXCAVATION AND BACKFILLING OF MATERIALS, AND THE ENGINEER RESERVES THE RIGHT TO ALTER THE METHOD OF BACKFILLING.
3. THE DIMENSIONS OF VERTICAL OPENING IS ESTIMATED TO BE 10' X 10'.
4. AFTER THE ROCK FILL, RR-4, HAS BEEN PLACED, THE CONTRACTOR SHALL SECURE THE AREA WITH TEMPORARY FENCING FOR A THREE DAY PERIOD TO ALLOW FOR SETTLEMENT BEFORE PROCEEDING WITH THE BACKFILLING. THE TEMPORARY FENCING SHALL BE INCIDENTAL TO THE ROCK FILL, RR-4.

