

**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

**Marshall Equipment -- Phase V**  
**Reclamation Project**  
**AML-GSIE-0417**  
**Saline County**  
**2LR**



**Marshall Equipment - Phase V**  
**Saline County**

PRE-BID MEETING


A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:30 A.M. THURSDAY, FEBRUARY 22, 2003. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE PROJECT SITE, SITE A ACCESS, ALONG DOG WALK RD., APPROXIMATELY 3 MILES WEST OF EQUALITY, IL.

SCHEDULE OF DRAWINGS:

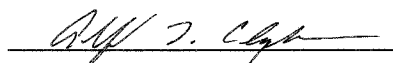
1. Cover Sheet
  2. Summary of Quantities/General Notes/Location Map
  3. Existing Conditions - Site A
  4. Proposed Conditions - Site A
  - 5.-6. Existing Conditions - Site B
  - 7.-8. Proposed Conditions - Site B
  - 9.-14. Cross Sections - Site A
  - 15.-23. Cross Sections - Site B
  24. Details
- I.D.O.T. Standard 280001-01  
I.D.O.T. Standard B.L.R. 18-4

Prepared By IDNR Staff

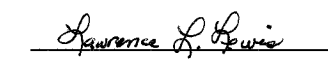
Approved for Bidding:

  
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
			Site A	Site B	Total		
1	Special Clearing	201	0.9	0.1	1	L.S.	
2	Earth Excavation	202	75,655	6,259	81,914	C.Y.	Compaction per Section 205
3	Grading and Shaping Ditches	IDOT 214	0	765	765	Foot	
4	Seeding	250	10.0	8.0	18.0	Acre	
5	Agricultural Ground Limestone	250	400.0	320.0	720.0	Ton	40.0 Tons/Acre
6	Nitrogen Fertilizer Nutrient	250	2,000	1,600	3,600	Pound	See Schedule Below
7	Phosphorus Fertilizer Nutrient	250	1,400	1,120	2,520	Pound	
8	Potassium Fertilizer Nutrient	250	3,500	2,800	6,300	Pound	
9	Mulch Method 2, Procedure 2	IDOT 251	10.0	8.0	18.0	Acre	2.0 Tons/Acre
10	Mowing	258	10.0	0	10.0	Acre	
11	Perimeter Erosion Barrier	IDOT 280	825	0	825	Foot	Silt Fence Required IDOT Standard 280001-03
12	Inlet and Pipe Protection	IDOT 280	0	1	1	Each	Silt Fence Required IDOT Standard 280001-03
13	Stone Riprap, A-3	IDOT 281	998	1,740	2,738	S.Y.	
14	Stone Riprap, A-4	IDOT 281	0	2,333	2,333	S.Y.	
15	Filter Fabric for Use with Riprap	IDOT 282	0	2,333	2,333	S.Y.	
16	Special Excelsior Blanket	256	13,907	2,244	16,151	S.Y.	8 Feet Wide Strips
17	Cleaning Existing Culverts	613	0	1	1	L.S.	
18	Dewatering Impoundments	614	1	0	1	L.S.	
19	*LCD - Coarse Aggregate CA-1	615	950.0	0	950.0	Ton	>90% Calcium Carbonate
20	*LCD - Coarse Aggregate CA-6	615	781.0	0	781.0	Ton	>90% Calcium Carbonate
21	*LCD - Compost	615	462	0	462	C.Y.	
22	*LCD - Filter Fabric	615	10,625	0	10,625	S.Y.	
23	*LCD - Polyethylene Liner	615	4,433	0	4,433	S.Y.	30 mils. Minimum - High Density
24	*LCD - PVC Pipe 2" Dia.	615	90	0	90	Foot	Includes all collars, fittings, elbows and connections. Schedule 40
25	*LCD - Perforated Well Casing 2" Dia.	615	1,100	0	1,100	Foot	Includes all collars, fittings, elbows and connections. Schedule 40
26	Mobilization (Max. of 6 % of Bid)	7C1	0.5	0.5	1	L.S.	
27	Traffic Control and Protection	7C1	0	1	1	L.S.	

\*LCD - Limestone Compost Drain

#### 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.

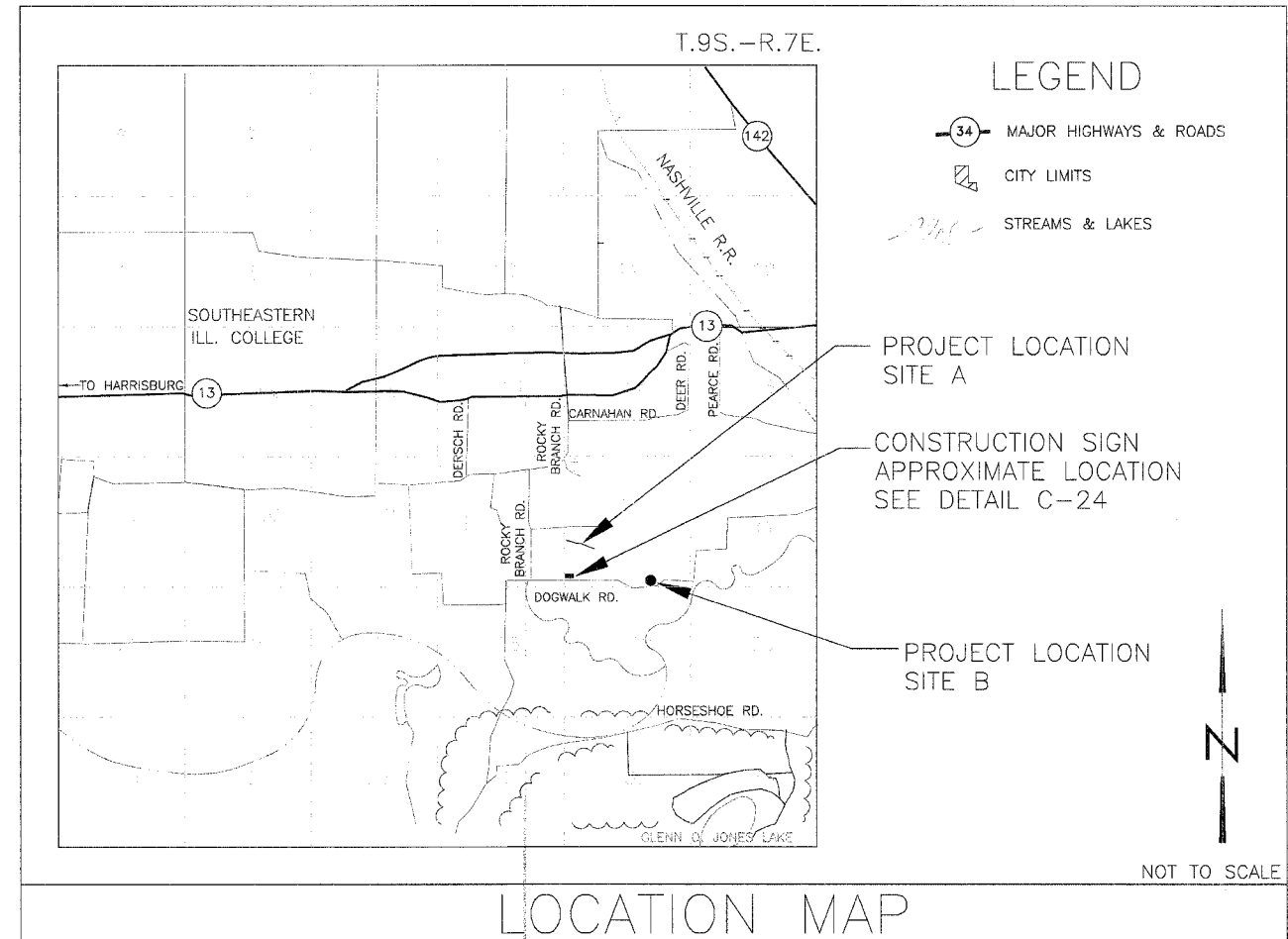
**TREE REMOVAL**-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions.

**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.



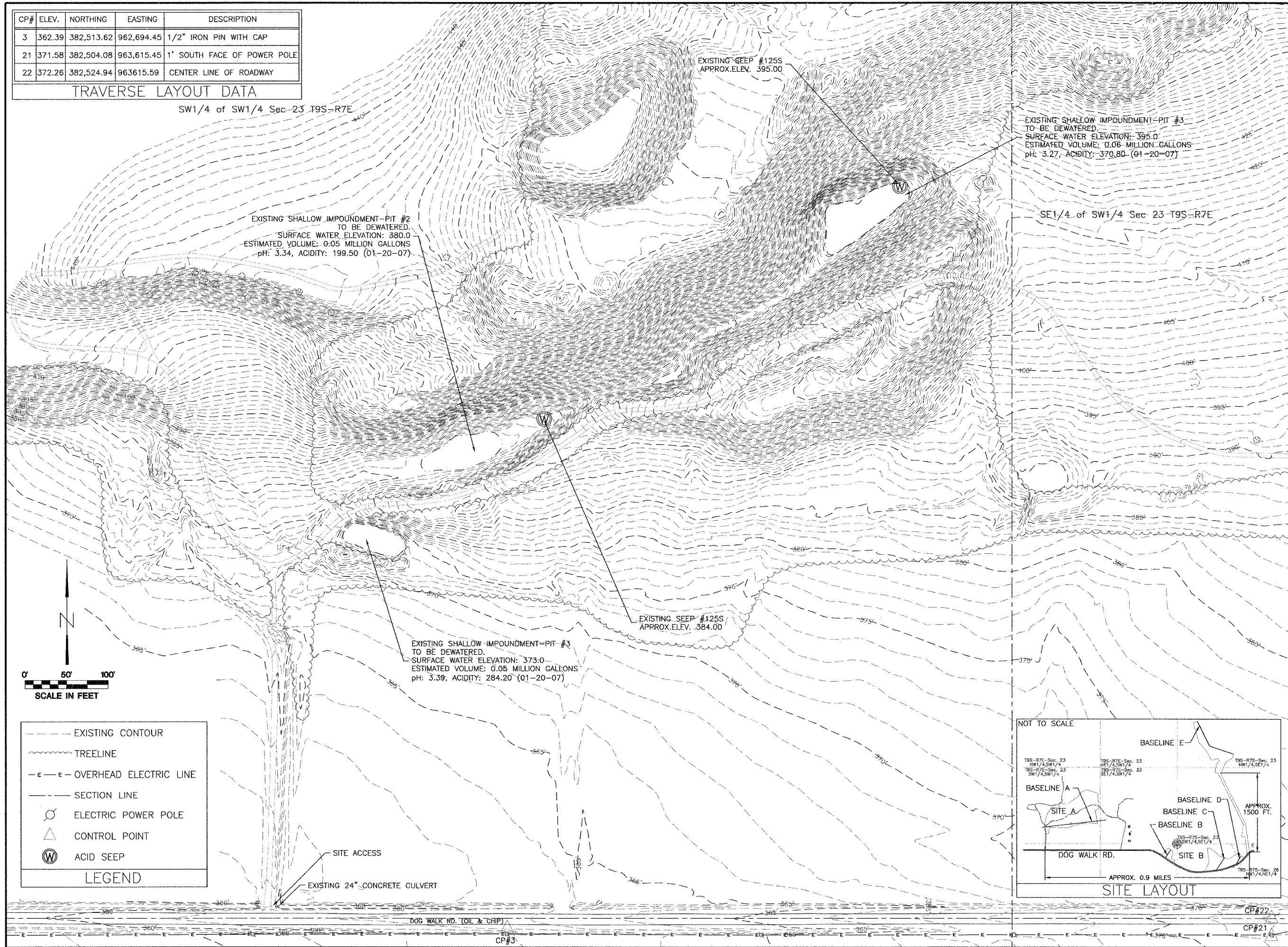
### Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

ITEM (unit)	FALL 2007 AUG. 20 - SEPT. 30		SPRING 2008 APR. 20 - MAY 15		SPRING 2008 MAY 15 - JUN. 15		TOTAL QUANTITY
	Site A	Site B	Site A	Site B	Site A	Site B	
SEEDING (acres)	10.0	8.0					18.0
AGRICULTURAL GROUND LIMESTONE (tons)	400.0 40.0 T/A	320.0 40.0 T/A			Actual Date to be Approved by Engineer		720.0
NITROGEN FERTILIZER NUTRIENT (pounds)	1,000 100 Lb./A	800 100 Lb./A	1,000 100 Lb./A	800 100 Lb./A			3,600
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,400 140 Lb./A	1,120 140 Lb./A					2,520
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,500 350 Lb./A	2,800 350 Lb./A					6,300
MULCH, METHOD 2 PROCEDURE 2 (acre)	10.0 2.0 T/A	8.0 2.0 T/A					18.0
MOWING (acres)					10.0	0	10.0

CP#	ELEV.	NORTHING	EASTING	DESCRIPTION
3	362.39	382,513.62	962,694.45	1/2" IRON PIN WITH CAP
21	371.58	382,504.08	963,615.45	1' SOUTH FACE OF POWER POLE
22	372.26	382,524.94	963615.59	CENTER LINE OF ROADWAY

TRAVERSE LAYOUT DATA

SW1/4 of SW1/4 Sec-23 T9S-R7E

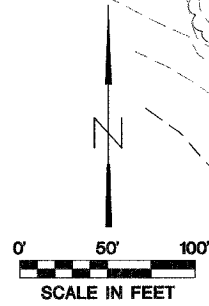


EXISTING SHALLOW IMPOUNDMENT-PIT #3  
TO BE DEWATERED.  
SURFACE WATER ELEVATION: 395.0  
ESTIMATED VOLUME: 0.06 MILLION GALLONS  
pH: 3.27, ACIDITY: 370.80 (01-20-07)

EXISTING SHALLOW IMPOUNDMENT-PIT #2  
TO BE DEWATERED.  
SURFACE WATER ELEVATION: 380.0  
ESTIMATED VOLUME: 0.05 MILLION GALLONS  
pH: 3.34, ACIDITY: 199.50 (01-20-07)

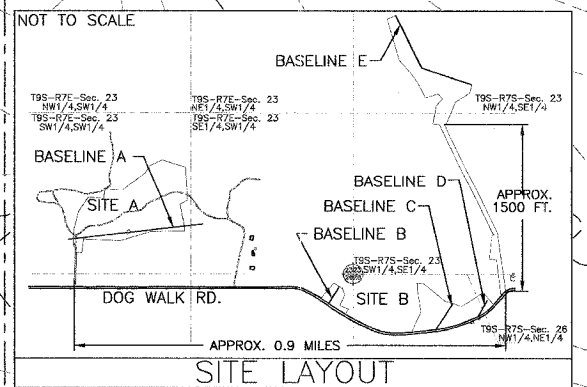
EXISTING SEEP #125S  
APPROX. ELEV. 384.00

EXISTING SHALLOW IMPOUNDMENT-PIT #3  
TO BE DEWATERED.  
SURFACE WATER ELEVATION: 373.0  
ESTIMATED VOLUME: 0.05 MILLION GALLONS  
pH: 3.39, ACIDITY: 284.20 (01-20-07)



	EXISTING CONTOUR
	TREELINE
	OVERHEAD ELECTRIC LINE
	SECTION LINE
	ELECTRIC POWER POLE
	CONTROL POINT
	ACID SEEP

LEGEND

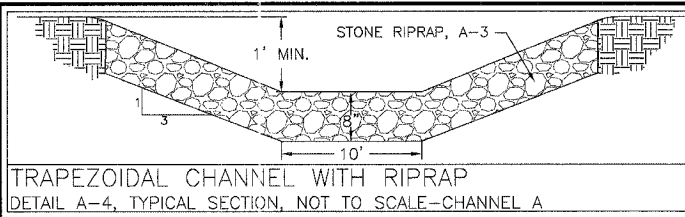


State of Illinois  
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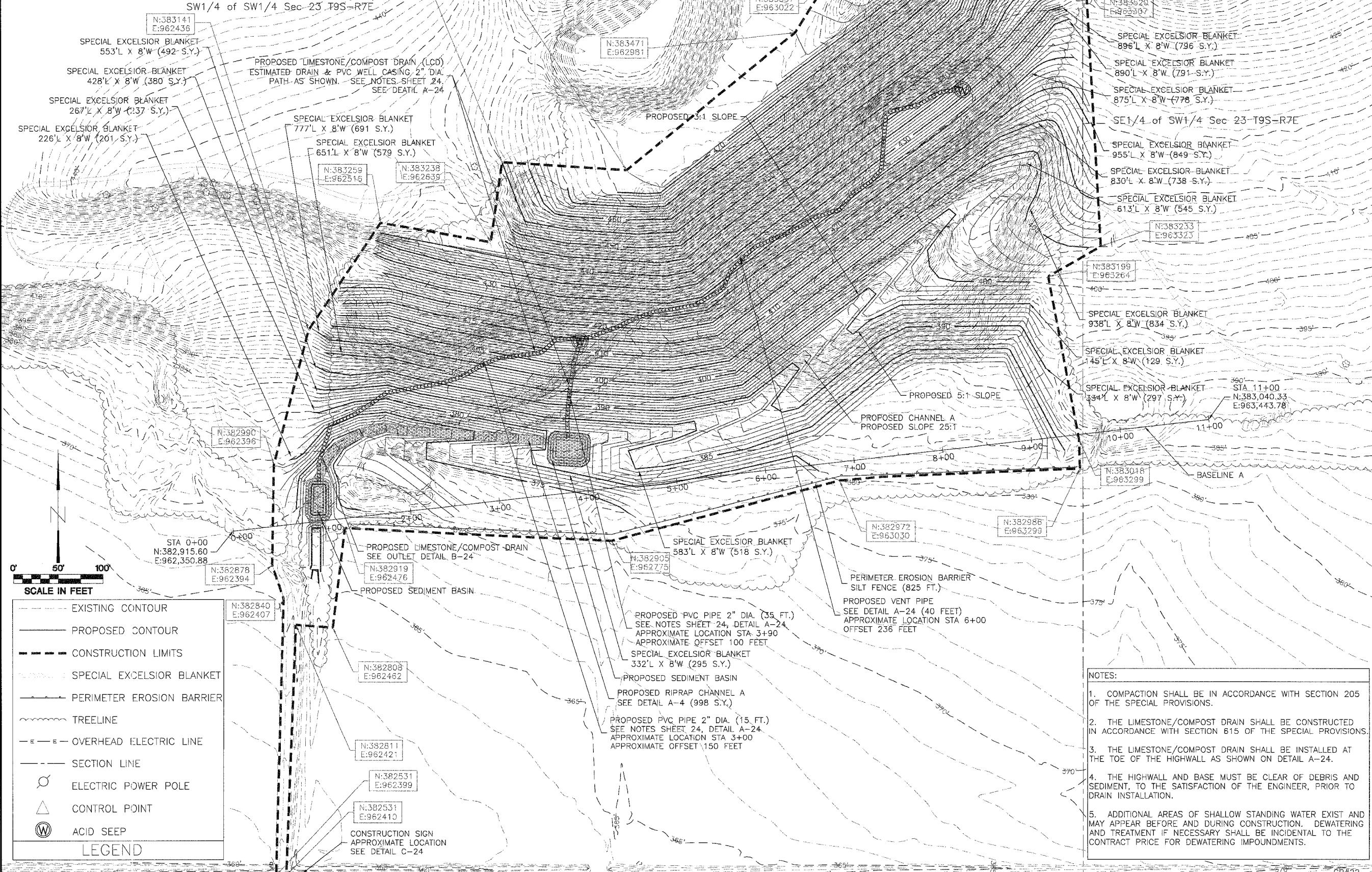
Marshall Equipment - Phase V  
Reclamation Project  
AML-GSIE-0417  
Saline County

Drawn By: OMA  
Checked By: \_\_\_\_\_  
Date: 01-28-07

Existing Conditions  
Site A  
Sheet 3 of 24



TRAPEZOIDAL CHANNEL WITH RIPRAP  
DETAIL A-4, TYPICAL SECTION, NOT TO SCALE-CHANNEL A



LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	SPECIAL EXCELSIOR BLANKET
	PERIMETER EROSION BARRIER
	TREELINE
	OVERHEAD ELECTRIC LINE
	SECTION LINE
	ELECTRIC POWER POLE
	CONTROL POINT
	ACID SEEP

- NOTES:
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.
  2. THE LIMESTONE/COMPOST DRAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 615 OF THE SPECIAL PROVISIONS.
  3. THE LIMESTONE/COMPOST DRAIN SHALL BE INSTALLED AT THE TOE OF THE HIGHWALL AS SHOWN ON DETAIL A-24.
  4. THE HIGHWALL AND BASE MUST BE CLEAR OF DEBRIS AND SEDIMENT, TO THE SATISFACTION OF THE ENGINEER, PRIOR TO DRAIN INSTALLATION.
  5. ADDITIONAL AREAS OF SHALLOW STANDING WATER EXIST AND MAY APPEAR BEFORE AND DURING CONSTRUCTION. DEWATERING AND TREATMENT IF NECESSARY SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR DEWATERING IMPOUNDMENTS.

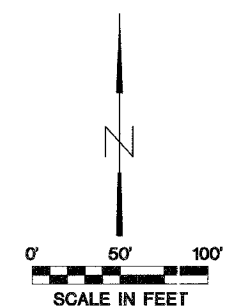
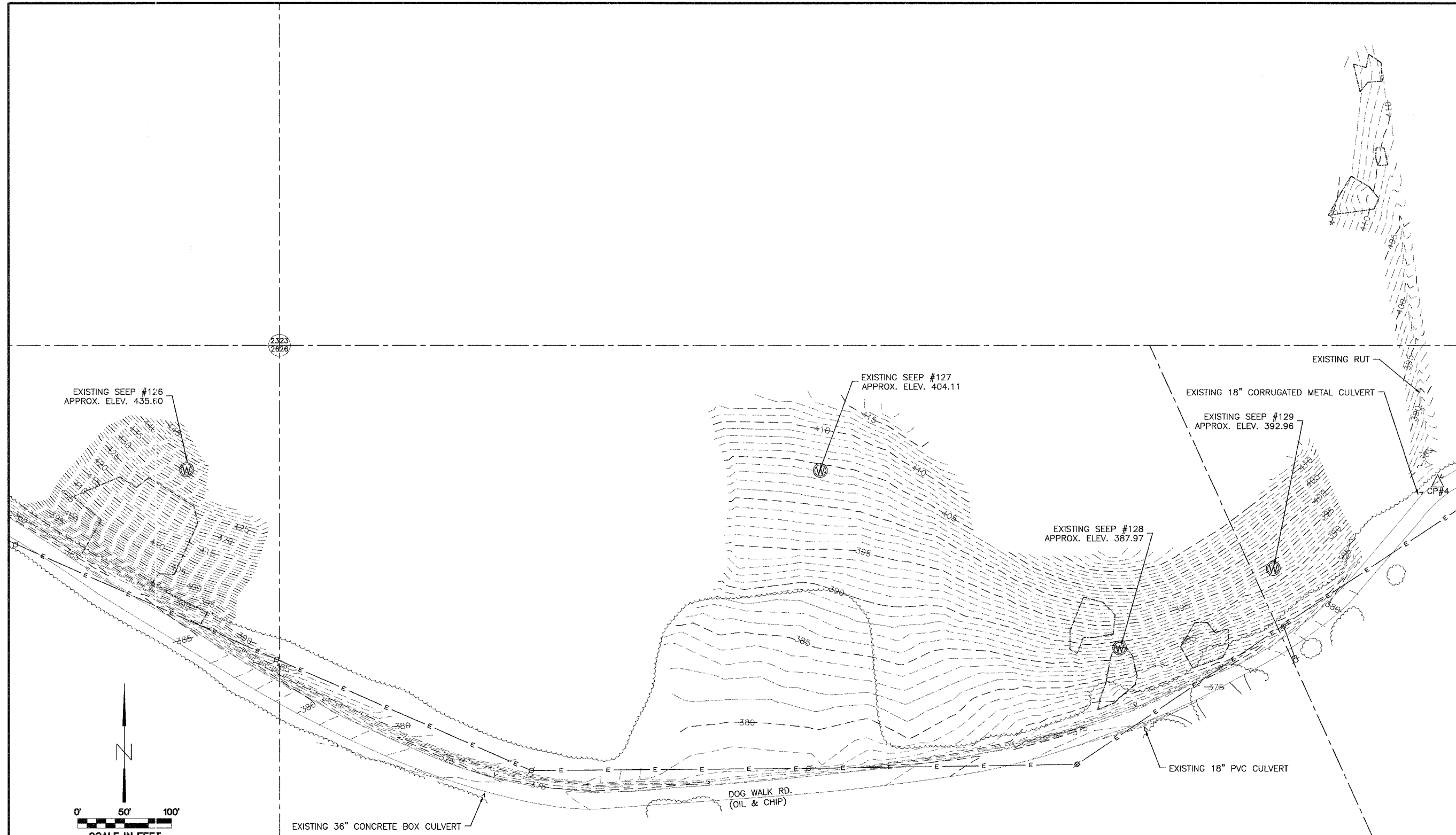
State of Illinois  
Department of Natural Resources

Marshall Equipment - Phase V  
Reclamation Project  
AML-GSIE-0417  
Saline County

Drawn By: \_\_\_\_\_ Date: 01-26-07  
Checked By: \_\_\_\_\_

Proposed Conditions  
Site A  
Sheet 4 of 24

Drawn By: OMA Date: 01-28-07  
Checked By: \_\_\_\_\_



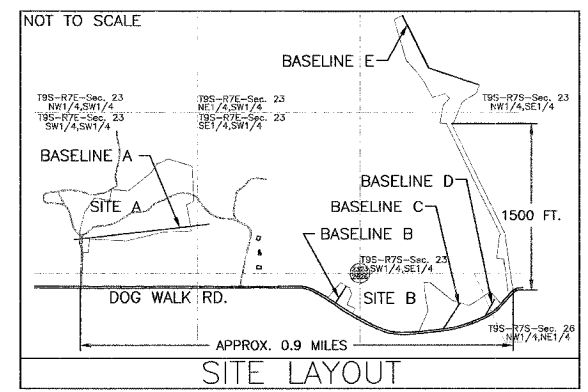
	EXISTING CONTOUR
	TREELINE
	OVERHEAD ELECTRIC LINE
	SECTION LINE
	BARE AREA
	ELECTRIC POWER POLE
	CONTROL POINT
	ACID SEEP

LEGEND

CP#	ELEV.	NORTHING	EASTING	DESCRIPTION
4	382.52	382,492.17	965,904.35	5/8" IRON PIN WITH YELLOW CAP
*1	361.71	382,498.63	967,136.23	5/8" IRON PIN WITH YELLOW CAP

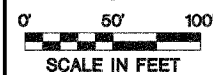
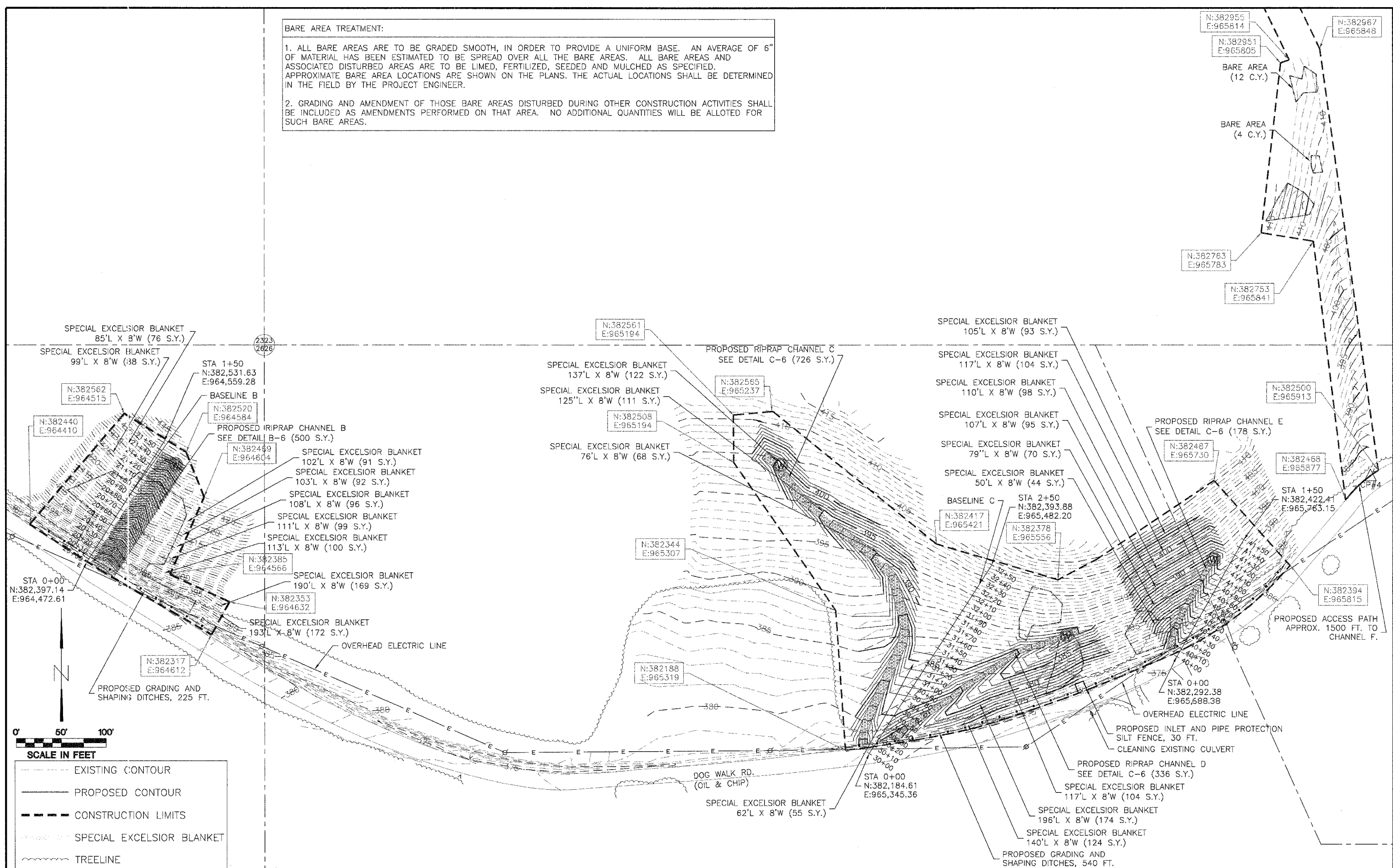
\* CP#1 IS LOCATED OUTSIDE AVAILABLE MAPPING

TRAVERSE LAYOUT DATA



**BARE AREA TREATMENT:**

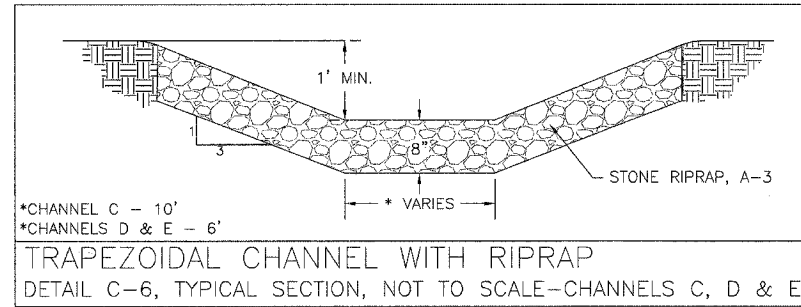
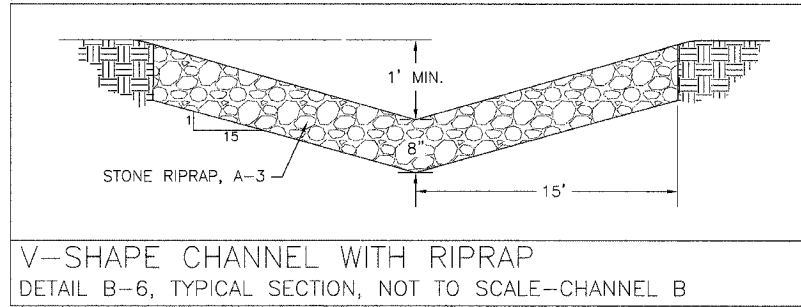
1. ALL BARE AREAS ARE TO BE GRADED SMOOTH, IN ORDER TO PROVIDE A UNIFORM BASE. AN AVERAGE OF 6" OF MATERIAL HAS BEEN ESTIMATED TO BE SPREAD OVER ALL THE BARE AREAS. ALL BARE AREAS AND ASSOCIATED DISTURBED AREAS ARE TO BE LIMED, FERTILIZED, SEEDING AND MULCHED AS SPECIFIED. APPROXIMATE BARE AREA LOCATIONS ARE SHOWN ON THE PLANS. THE ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
2. GRADING AND AMENDMENTS OF THOSE BARE AREAS DISTURBED DURING OTHER CONSTRUCTION ACTIVITIES SHALL BE INCLUDED AS AMENDMENTS PERFORMED ON THAT AREA. NO ADDITIONAL QUANTITIES WILL BE ALLOTTED FOR SUCH BARE AREAS.



**SCALE IN FEET**

---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
---	SPECIAL EXCELSIOR BLANKET
---	TREELINE
-E-E-	OVERHEAD ELECTRIC LINE
---	SECTION LINE
---	BARE AREAS
⊙	ELECTRIC POWER POLE
△	CONTROL POINT
⊙	ACID SEEP

**LEGEND**



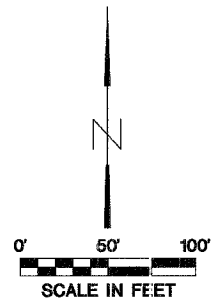
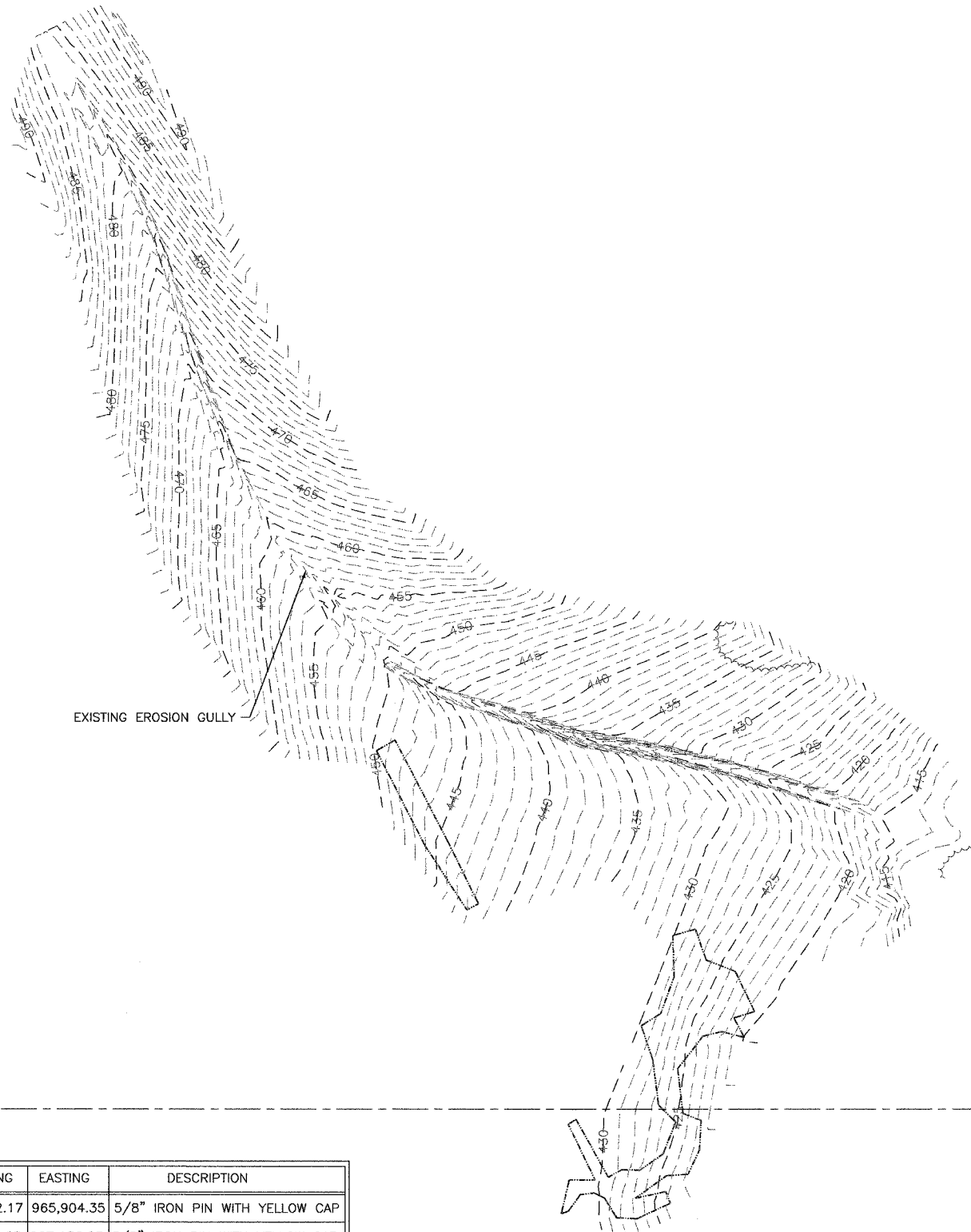
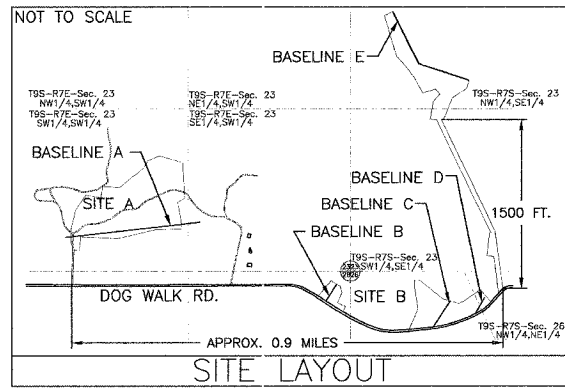
- NOTES:**
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.
  2. ADDITIONAL AREAS OF SHALLOW STANDING WATER EXIST AND MAY APPEAR BEFORE AND DURING CONSTRUCTION. DEWATERING AND TREATMENT IF NECESSARY SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.
  3. APPROXIMATELY 4,569 C.Y. OF EARTH EXCAVATION SHALL BE TRANSPORTED FROM SITE B TO SITE A. THIS MATERIAL SHALL BE PLACED AT LEAST 10 FEET BELOW FINAL GRADE.
  4. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING AT THE EDGE OF THE ROADWAY.

**State of Illinois**  
**Department of Natural Resources**

**Marshall Equipment - Phase V**  
**Reclamation Project**  
**AML-GSIE-0417**  
**Saline County**

Drawn By: \_\_\_\_\_ Date: 01-26-07  
 Checked By: \_\_\_\_\_

**Proposed Conditions**  
**Site B**  
**Sheet 6 of 24**



	EXISTING CONTOUR
	TREELINE
	OVERHEAD ELECTRIC LINE
	SECTION LINE
	BARE AREA
	ELECTRIC POWER POLE
	CONTROL POINT
	ACID SEEP

LEGEND

CP#	ELEV.	NORTHING	EASTING	DESCRIPTION
4	382.52	382,492.17	965,904.35	5/8" IRON PIN WITH YELLOW CAP
*1	361.71	382,498.63	967,136.23	5/8" IRON PIN WITH YELLOW CAP

\* CP#1 IS LOCATED OUTSIDE AVAILABLE MAPPING

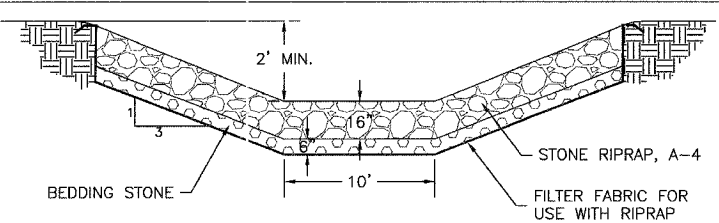
TRAVERSE LAYOUT DATA

State of Illinois  
Department of Natural Resources

Marshall Equipment - Phase V  
Reclamation Project  
AML-GSIE-0417  
Saline County

Drawn By: OMA Date: 01-28-07  
Checked By:

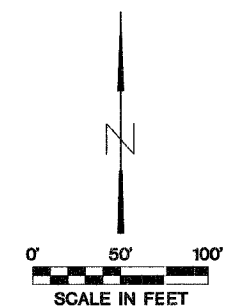
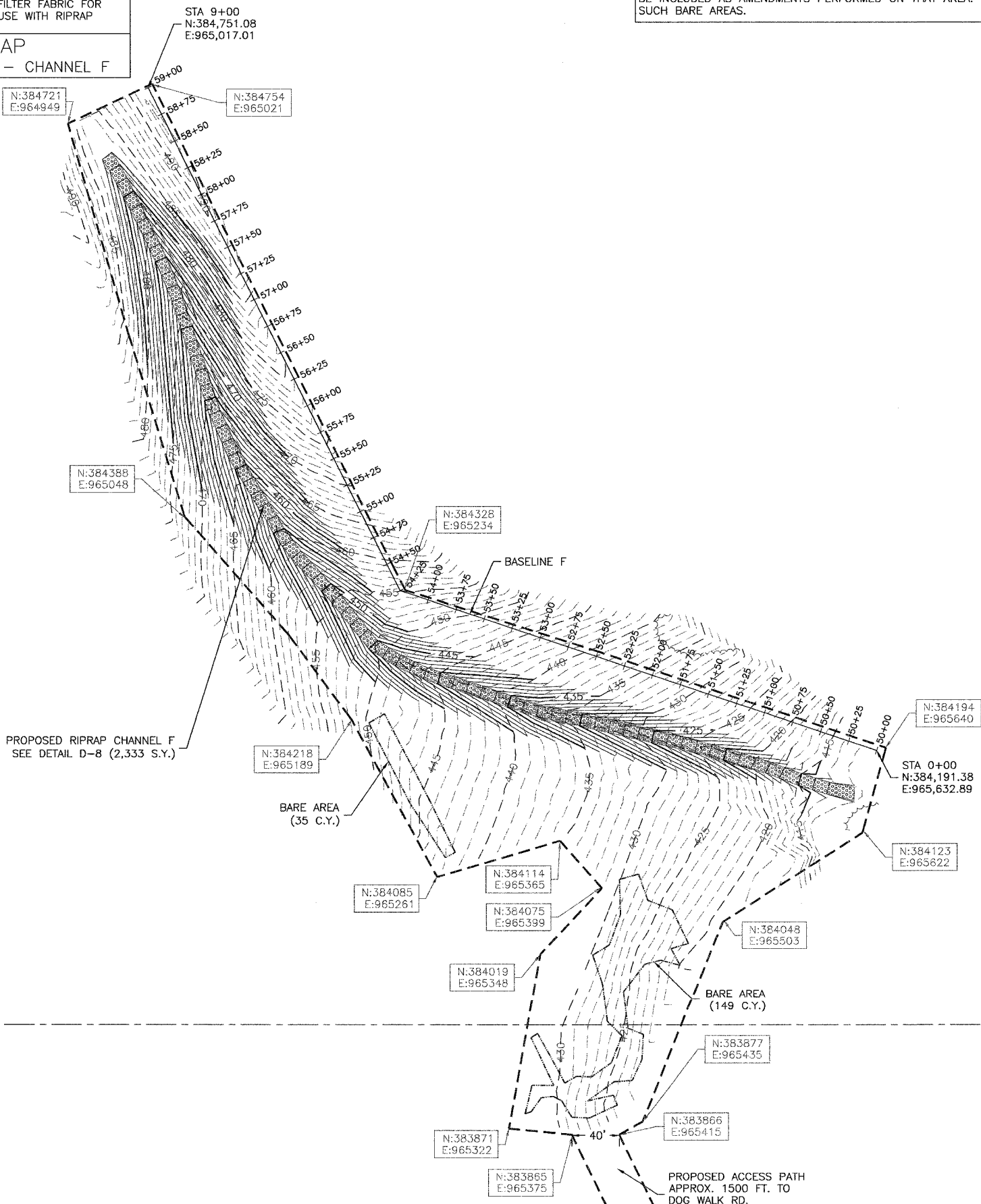
Existing Conditions  
Site B  
Sheet 7 of 24



TRAPEZOIDAL CHANNEL WITH RIPRAP  
DETAIL D-8, TYPICAL SECTION, NOT TO SCALE - CHANNEL F

- NOTES:
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.
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  3. APPROXIMATELY 4,569 C.Y. OF EARTH EXCAVATION SHALL BE TRANSPORTED FROM SITE B TO SITE A. THIS MATERIAL SHALL BE PLACED AT LEAST 10 FEET BELOW FINAL GRADE.
  4. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING AT THE EDGE OF THE ROADWAY.

- BARE AREA TREATMENT:
1. ALL BARE AREAS ARE TO BE GRADED SMOOTH, IN ORDER TO PROVIDE A UNIFORM BASE. AN AVERAGE OF 6" OF MATERIAL HAS BEEN ESTIMATED TO BE SPREAD OVER ALL THE BARE AREAS. ALL BARE AREAS AND ASSOCIATED DISTURBED AREAS ARE TO BE LIMED, FERTILIZED, SEEDED AND MULCHED AS SPECIFIED. APPROXIMATE BARE AREA LOCATIONS ARE SHOWN ON THE PLANS. THE ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
  2. GRADING AND AMENDMENT OF THOSE BARE AREAS DISTURBED DURING OTHER CONSTRUCTION ACTIVITIES SHALL BE INCLUDED AS AMENDMENTS PERFORMED ON THAT AREA. NO ADDITIONAL QUANTITIES WILL BE ALLOTTED FOR SUCH BARE AREAS.



- LEGEND
- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - - - CONSTRUCTION LIMITS
  - ~~~~~ SPECIAL EXCELSIOR BLANKET
  - ~~~~~ TREELINE
  - - - OVERHEAD ELECTRIC LINE
  - SECTION LINE
  - - - BARE AREAS
  - ⊙ ELECTRIC POWER POLE
  - △ CONTROL POINT
  - ⊙ ACID SEEP

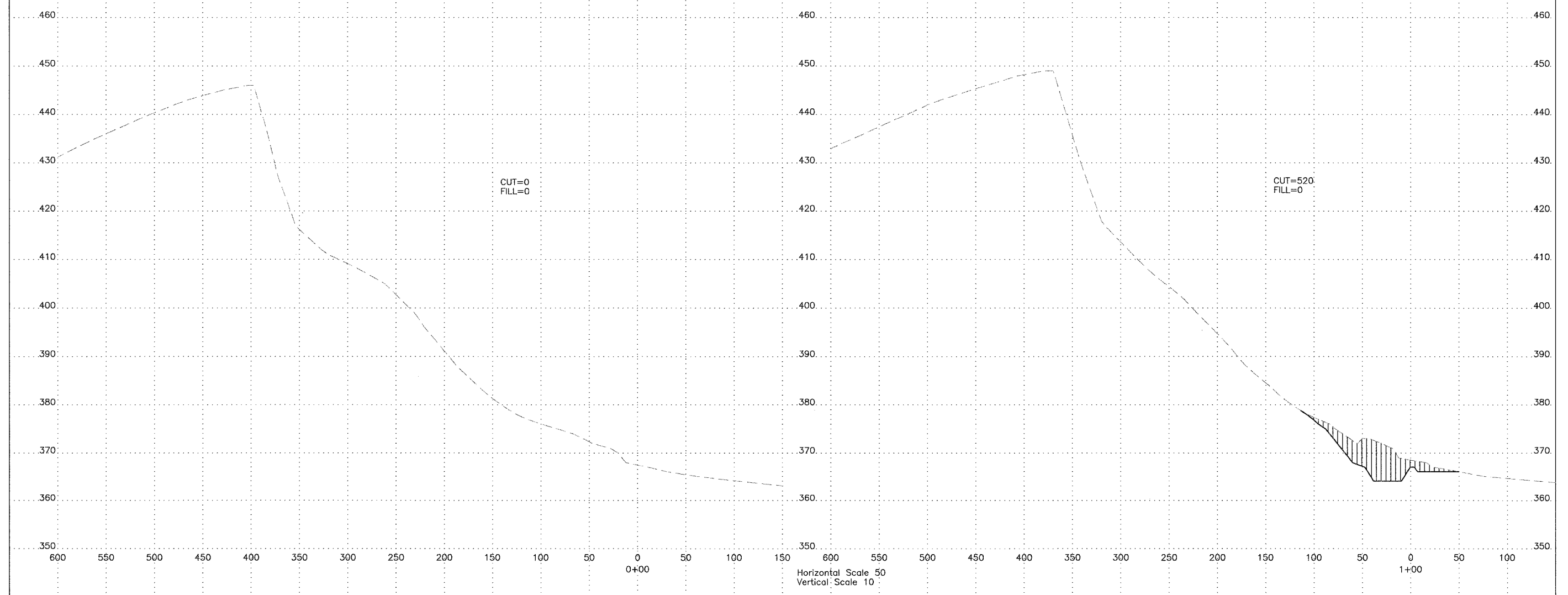
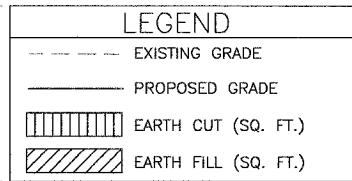
State of Illinois  
Department of Natural Resources

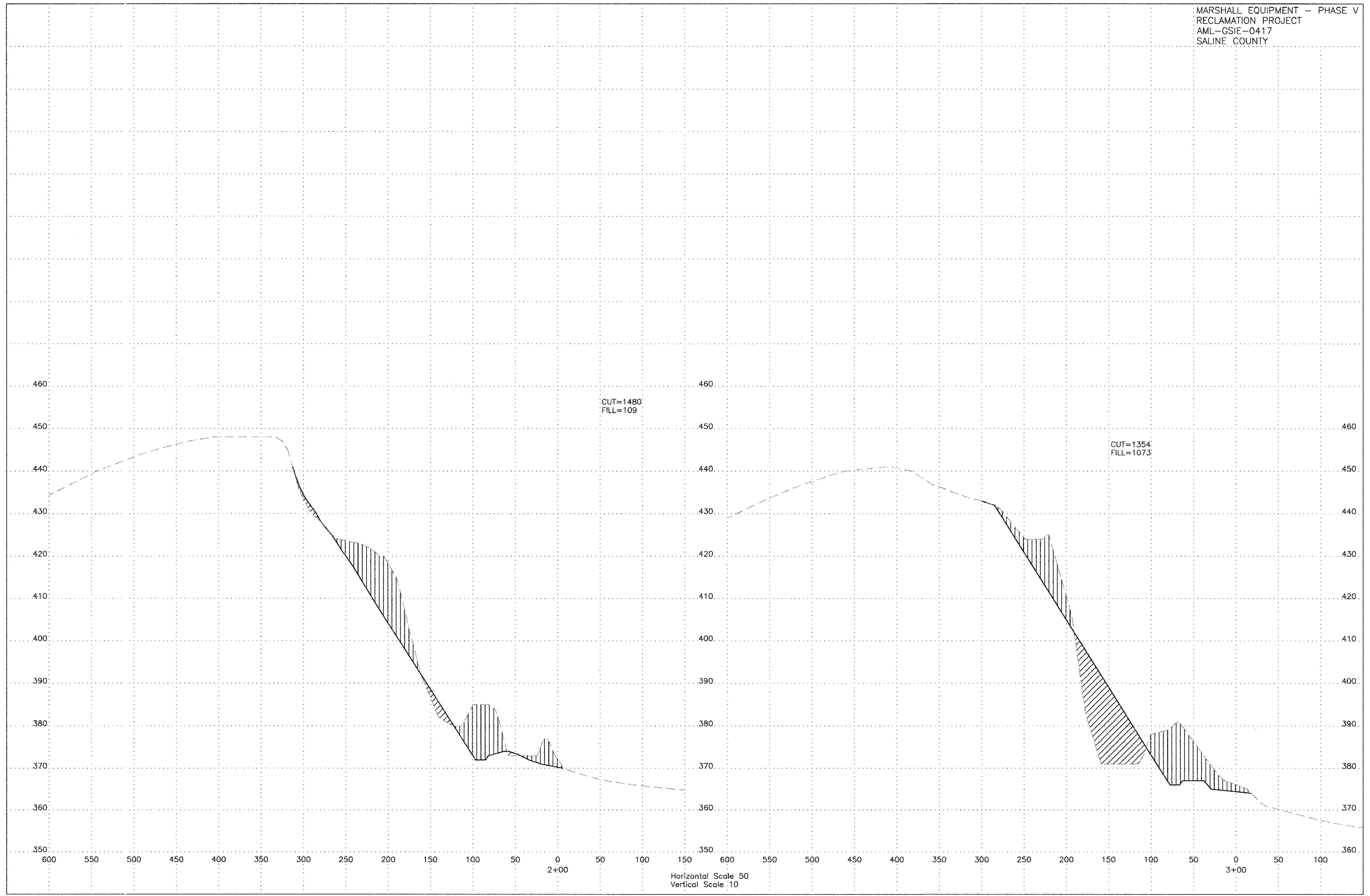
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Saline County

Drawn By: \_\_\_\_\_ Date: 01-26-07  
Checked By: \_\_\_\_\_

Proposed Conditions  
Site B  
Sheet 8 of 24



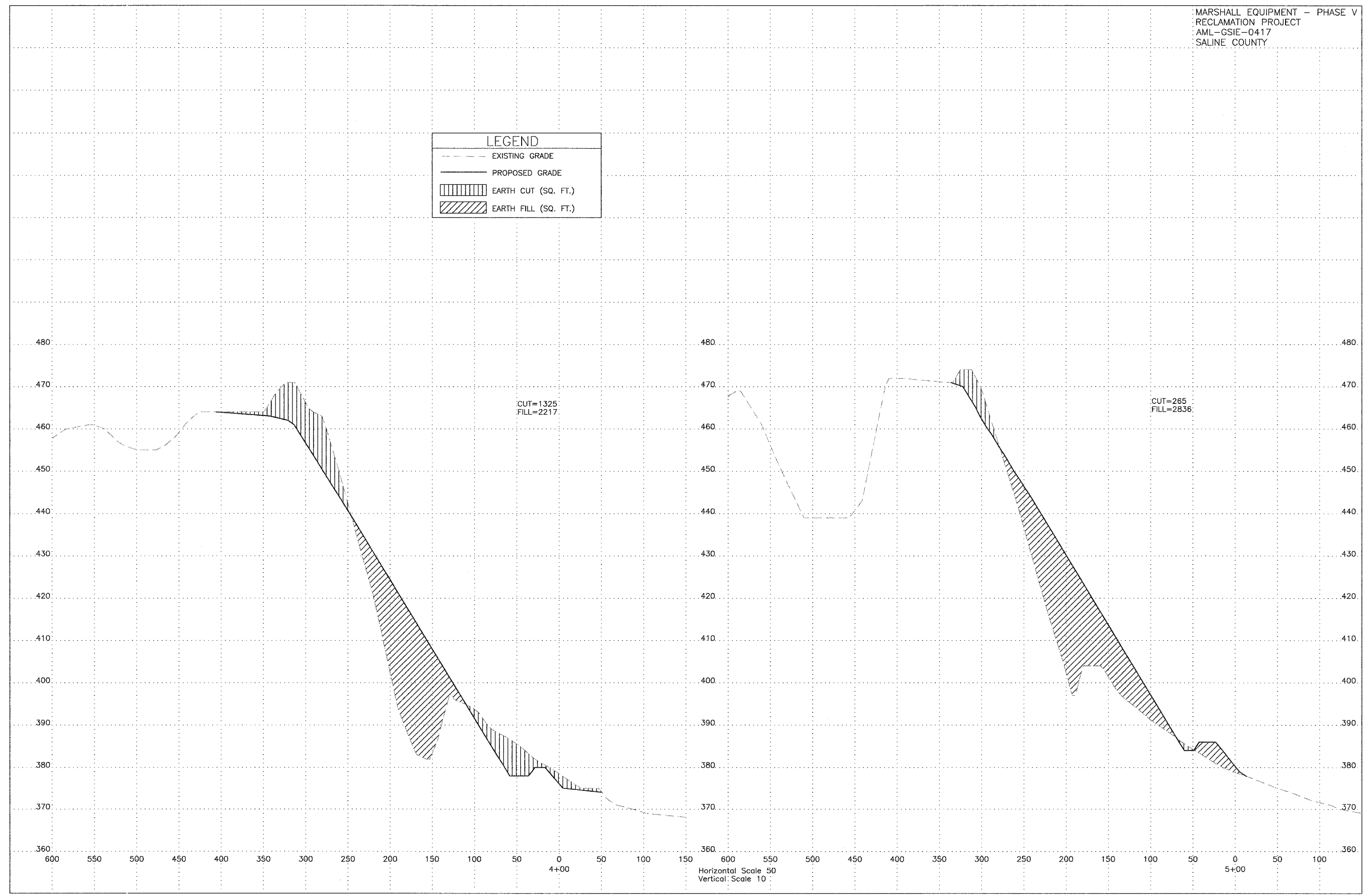


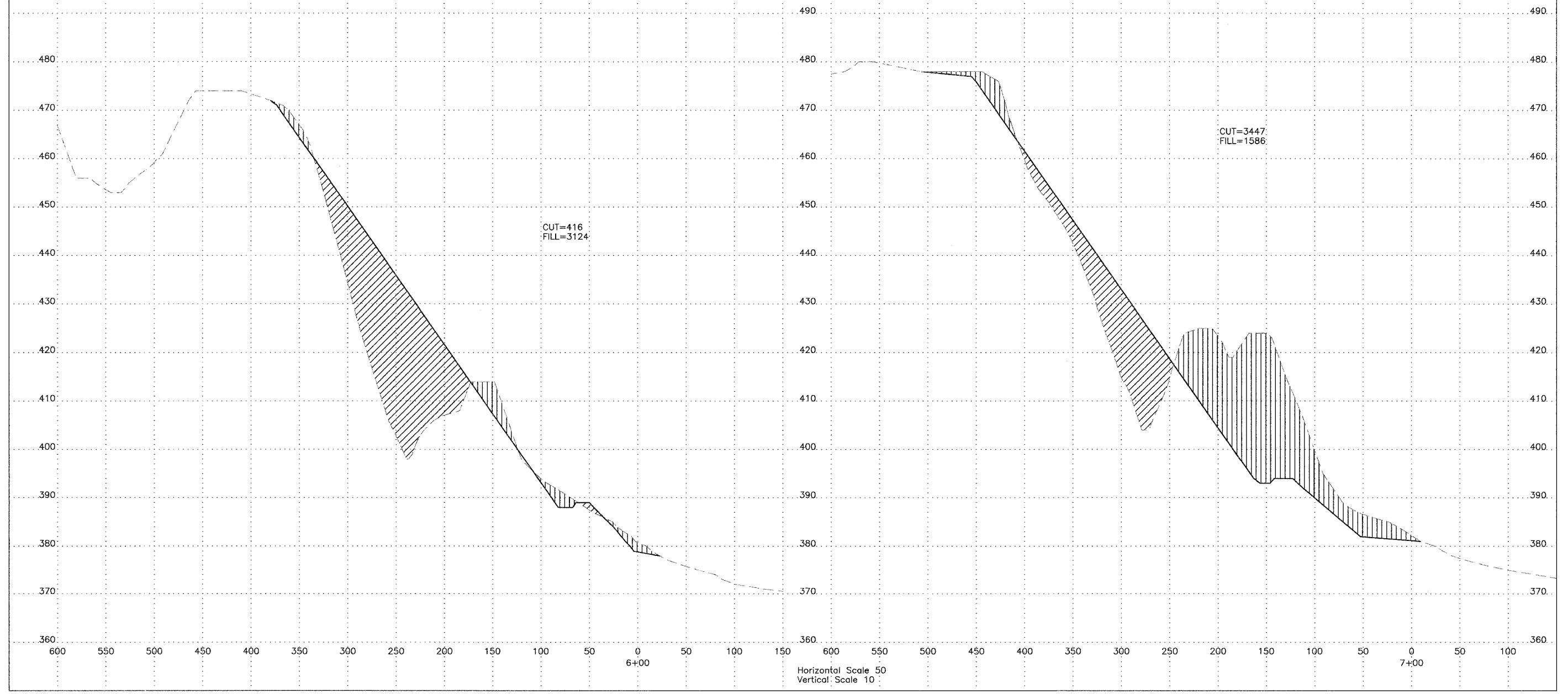


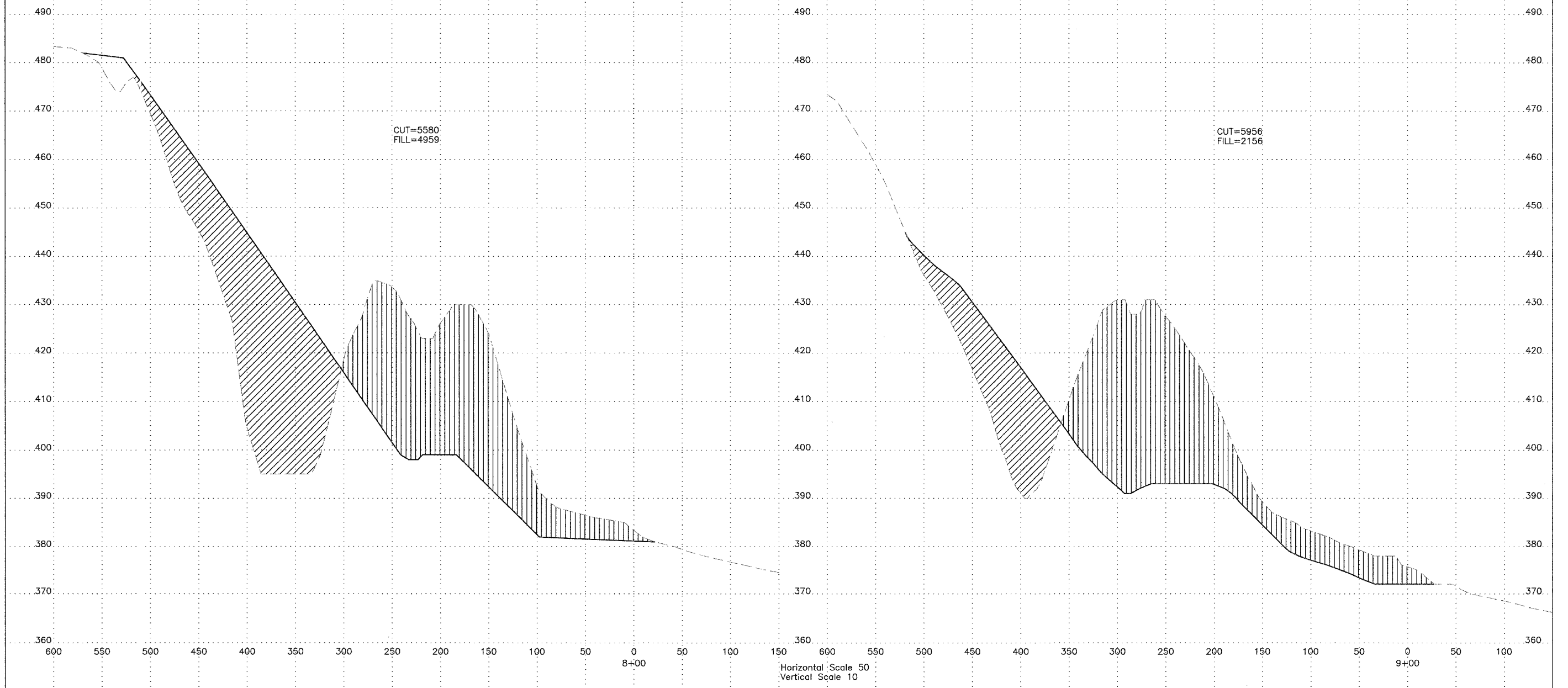
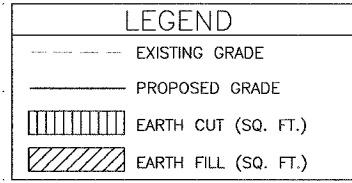
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Vertical Scale 10

**LEGEND**

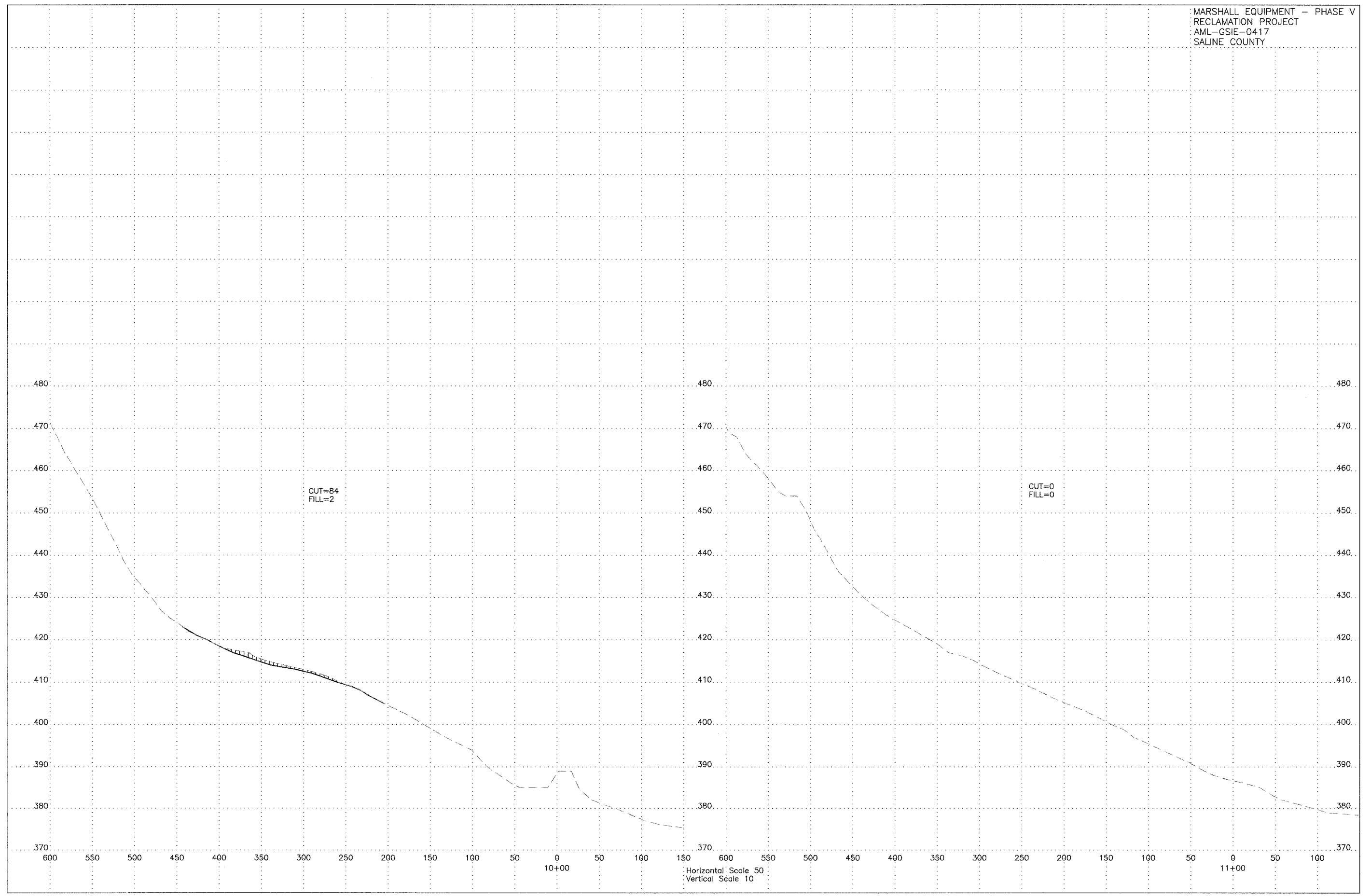
- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT (SQ. FT.)
- ▩ EARTH FILL (SQ. FT.)





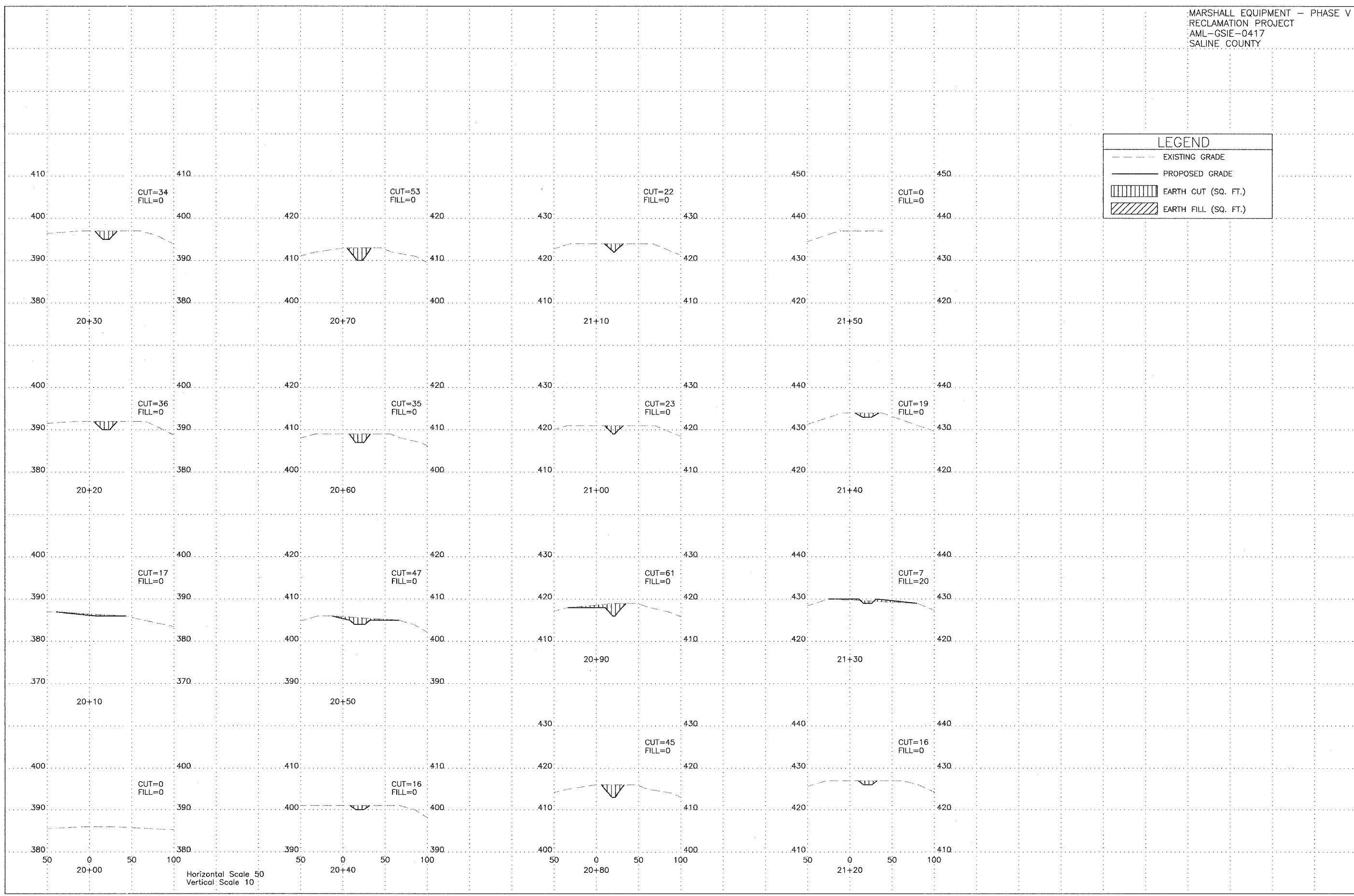


Horizontal Scale 50  
Vertical Scale 10



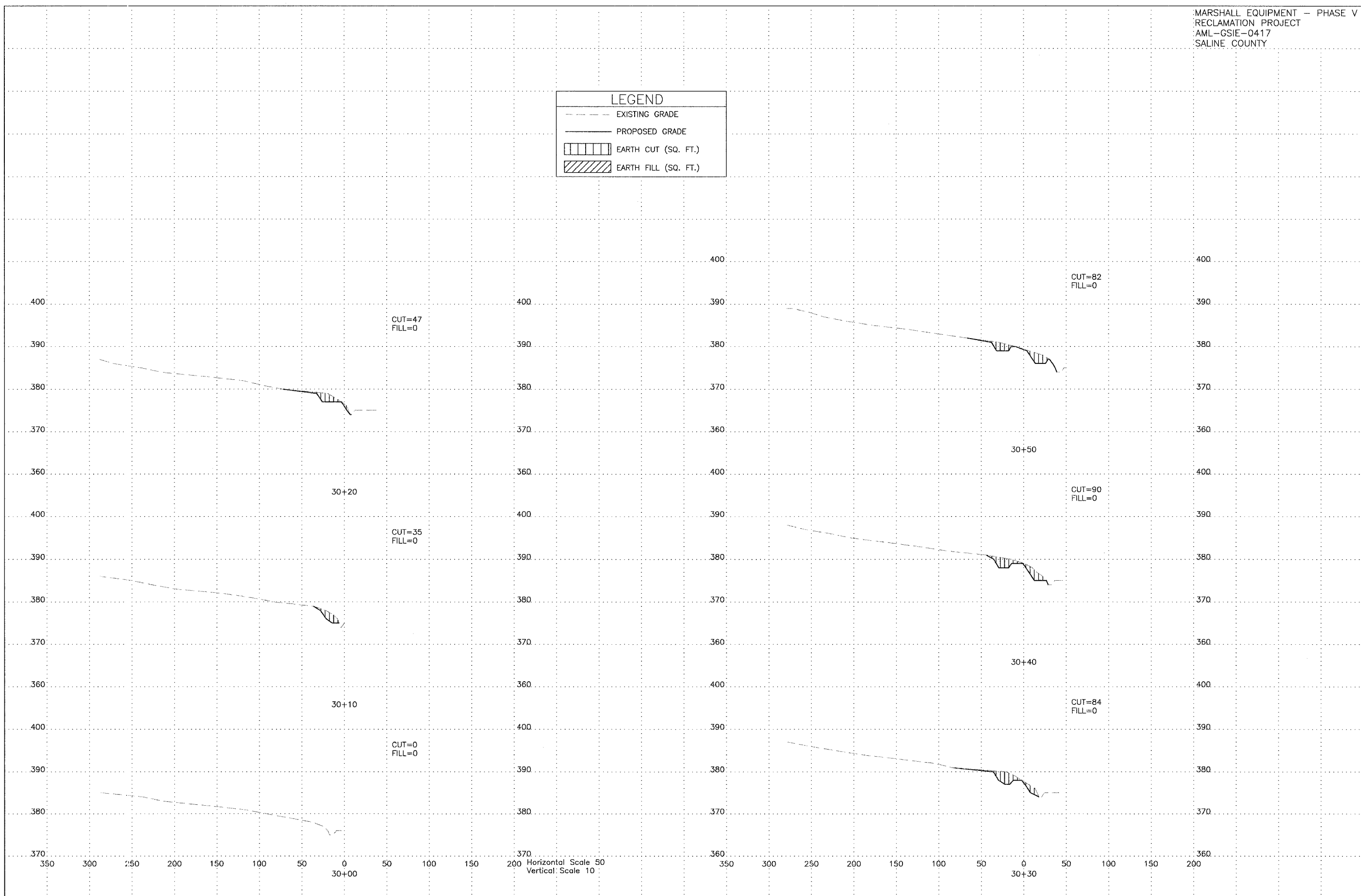
**LEGEND**

- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT (SQ. FT.)
- ▩ EARTH FILL (SQ. FT.)

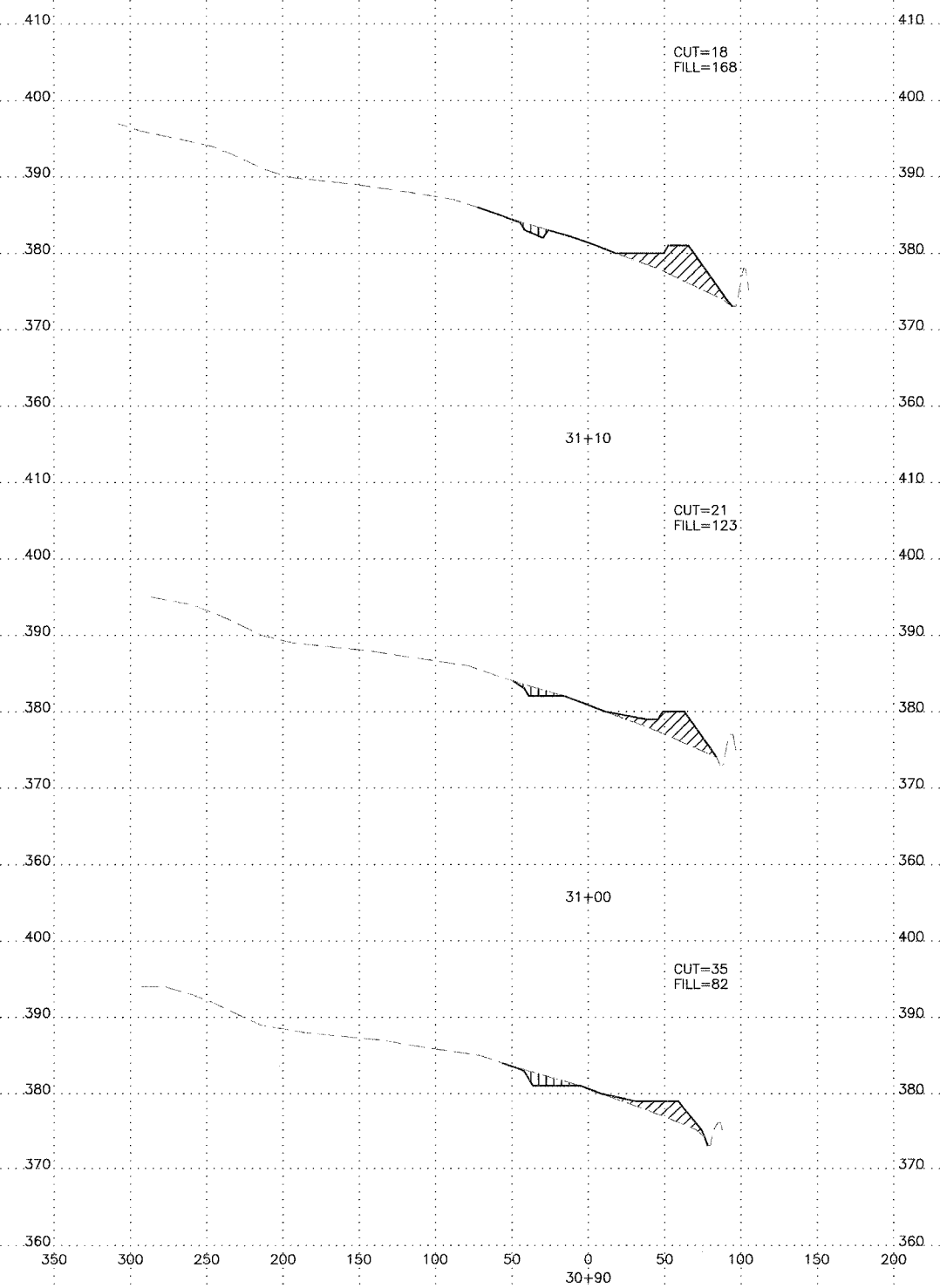
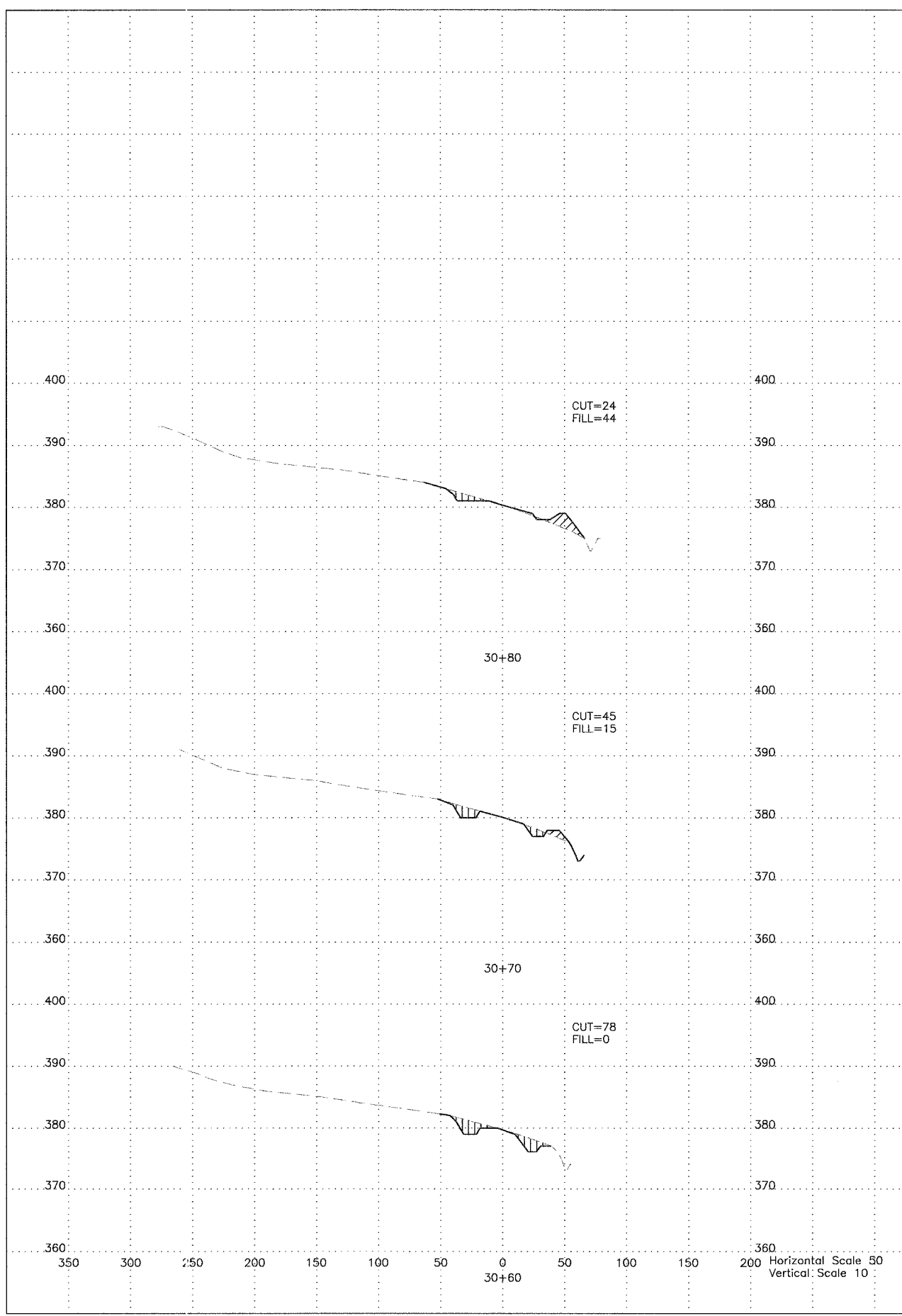


**LEGEND**

- EXISTING GRADE
- PROPOSED GRADE
- ▤ EARTH CUT (SQ. FT.)
- ▨ EARTH FILL (SQ. FT.)

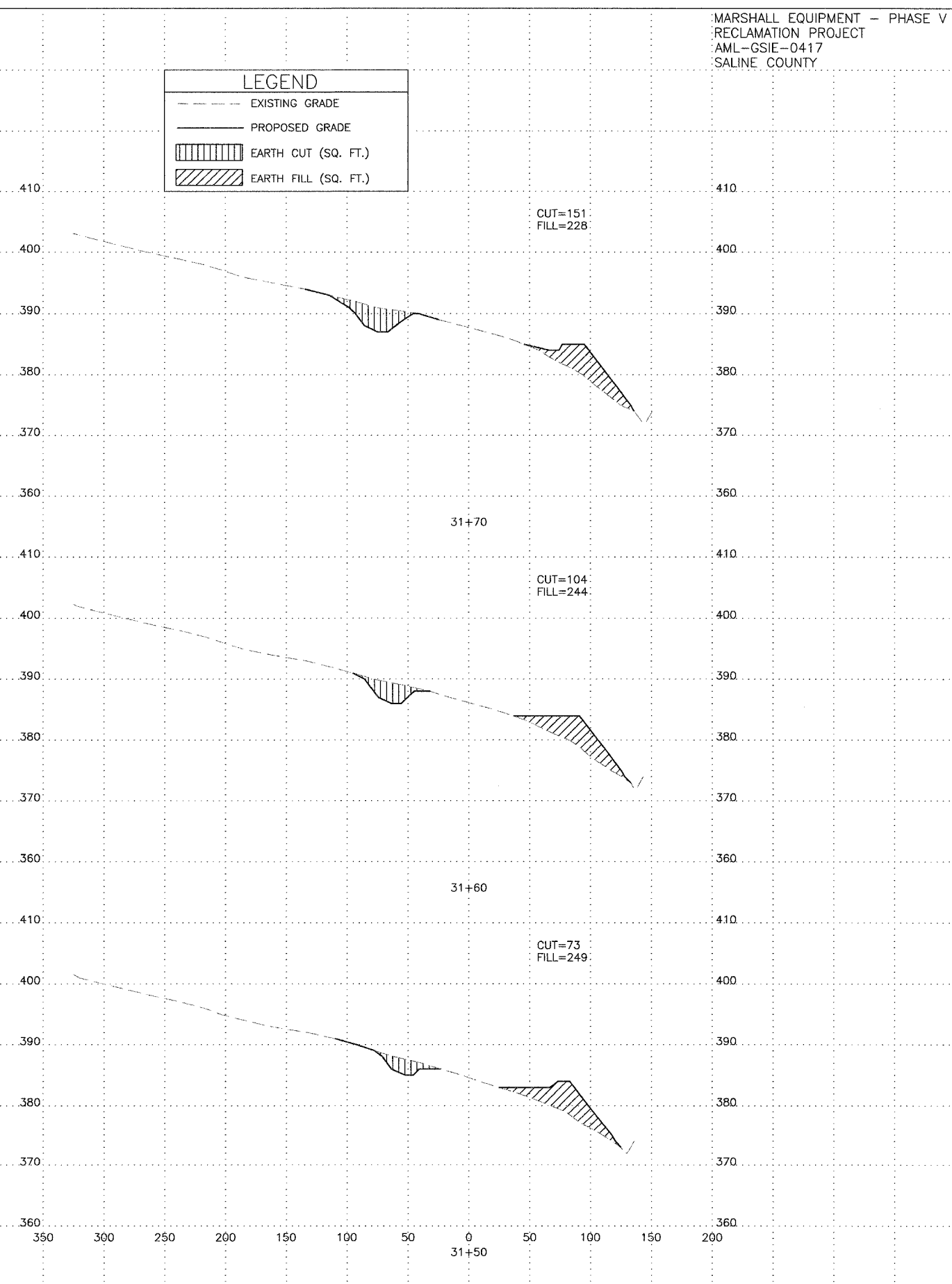
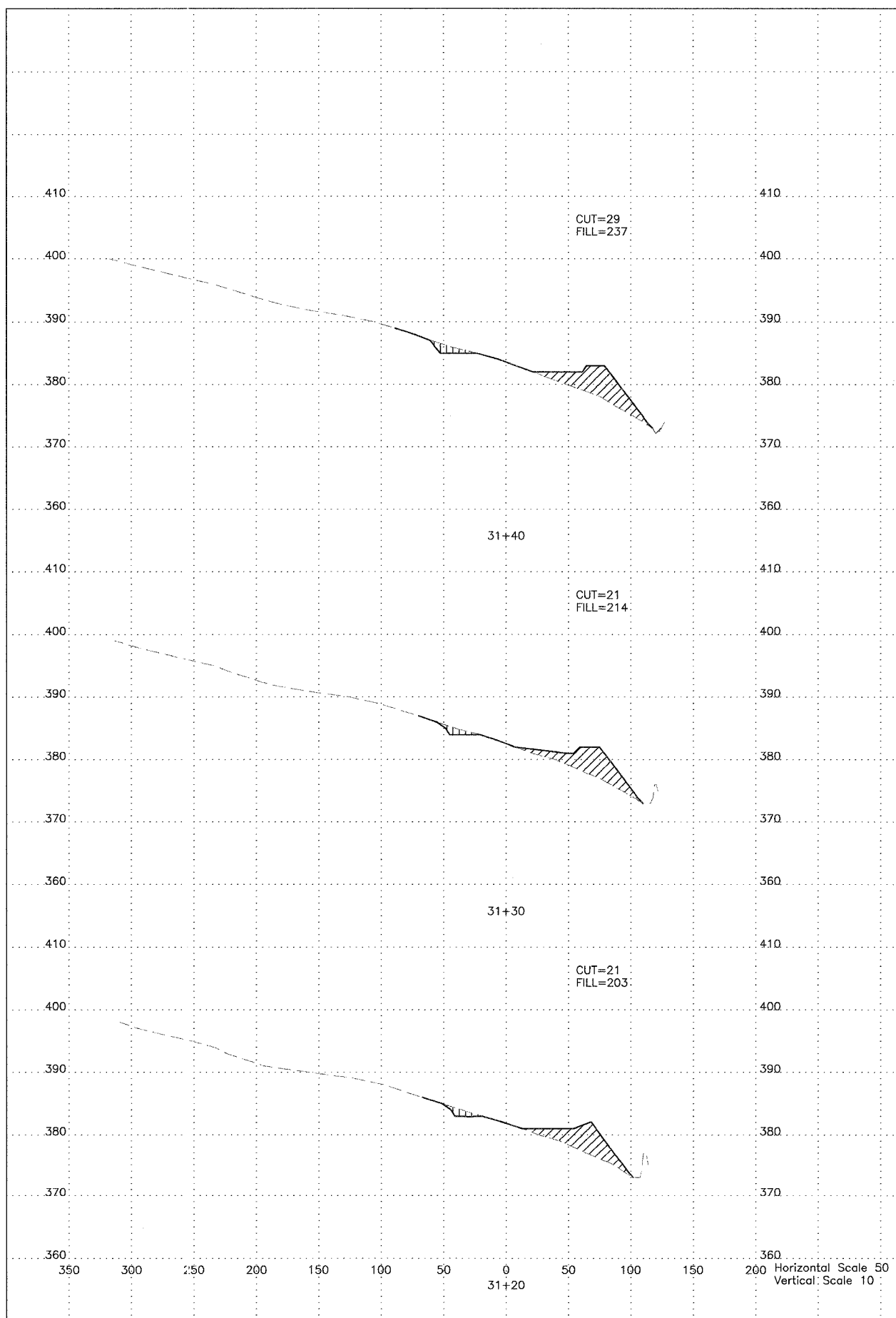


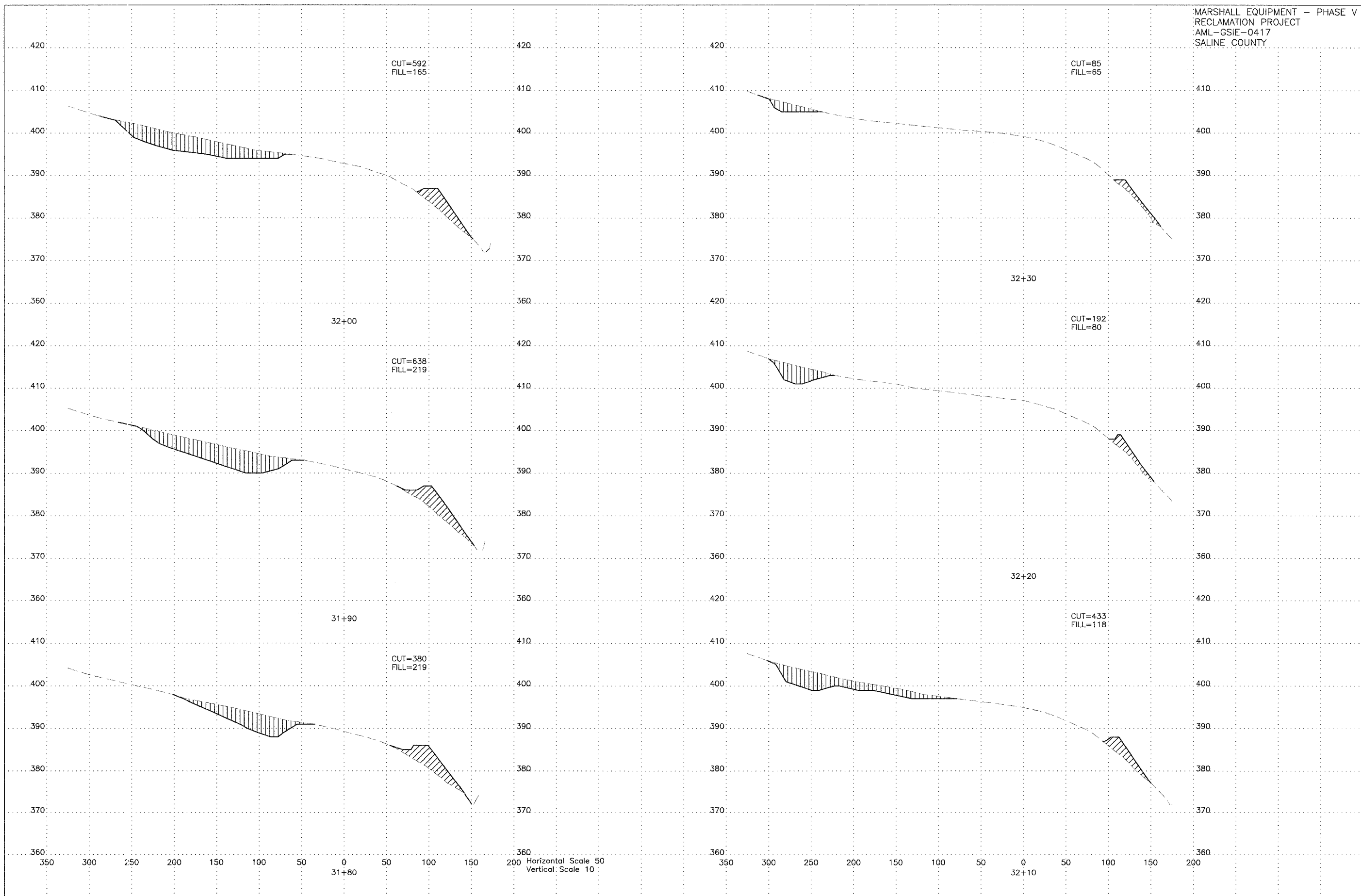




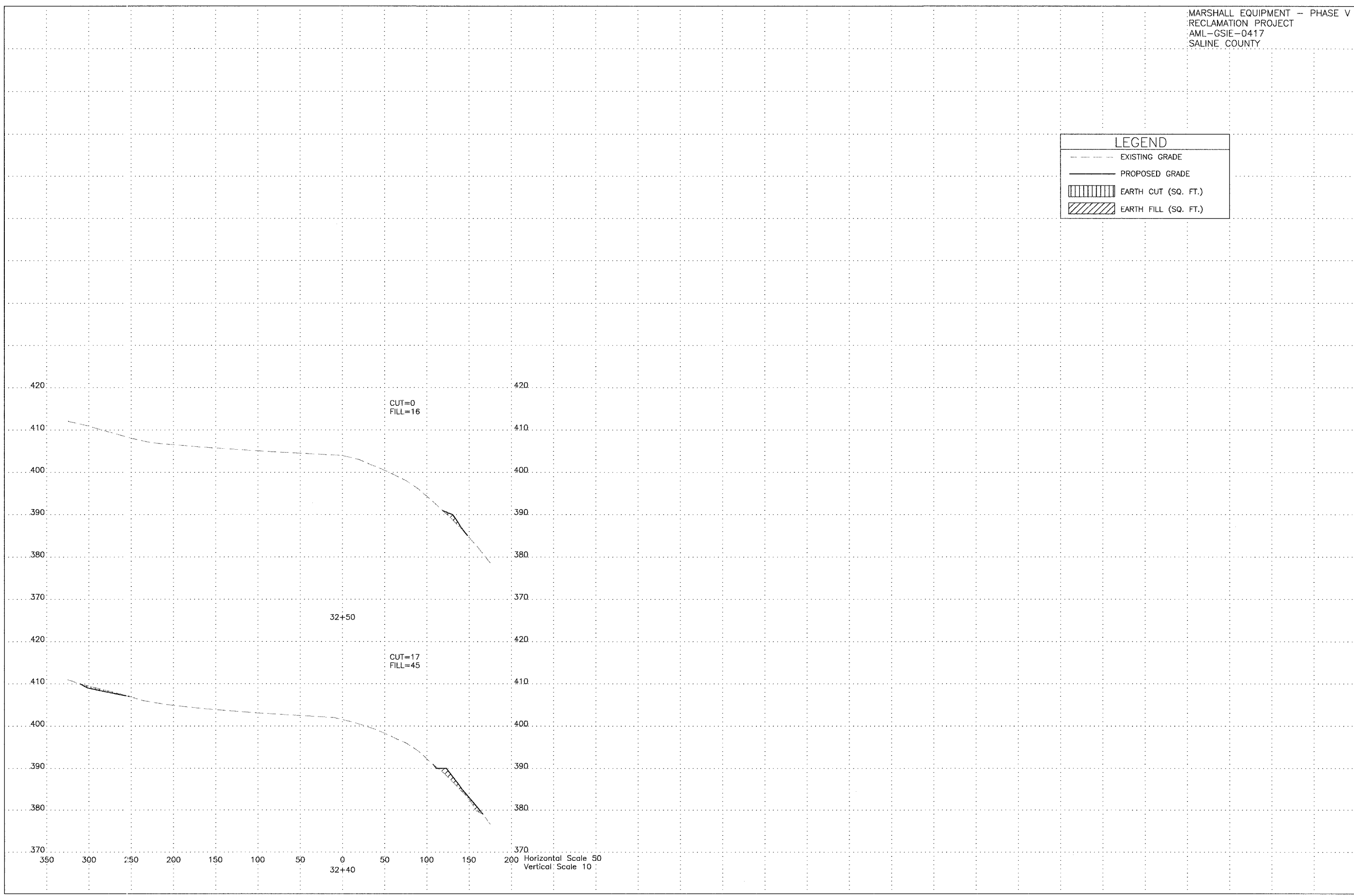
**LEGEND**

- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT (SQ. FT.)
- ▩ EARTH FILL (SQ. FT.)





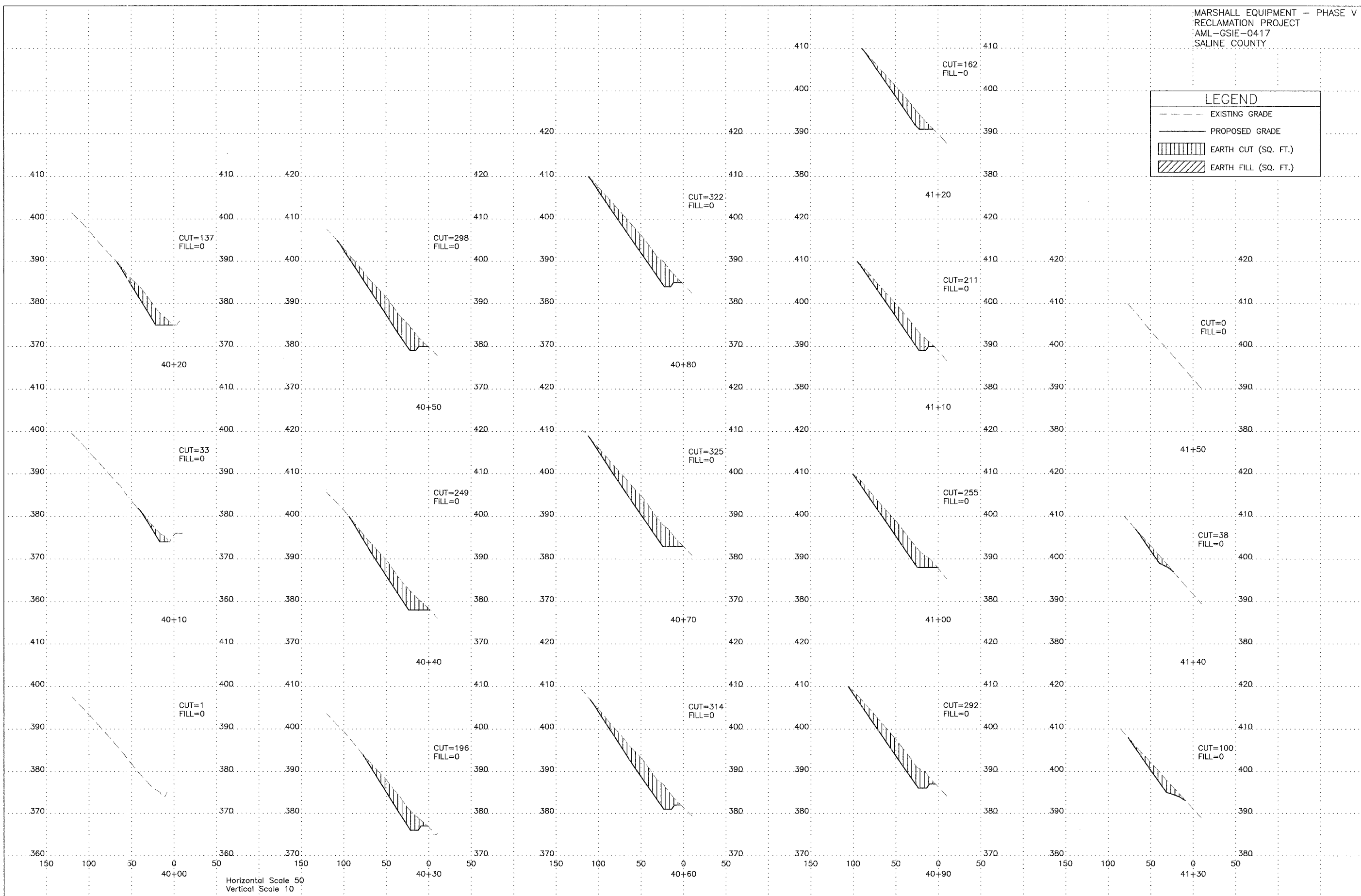
LEGEND	
---	EXISTING GRADE
—	PROPOSED GRADE
▤▤▤▤▤▤	EARTH CUT (SQ. FT.)
▨▨▨▨▨▨	EARTH FILL (SQ. FT.)



Horizontal Scale 50  
 Vertical Scale 10

**LEGEND**

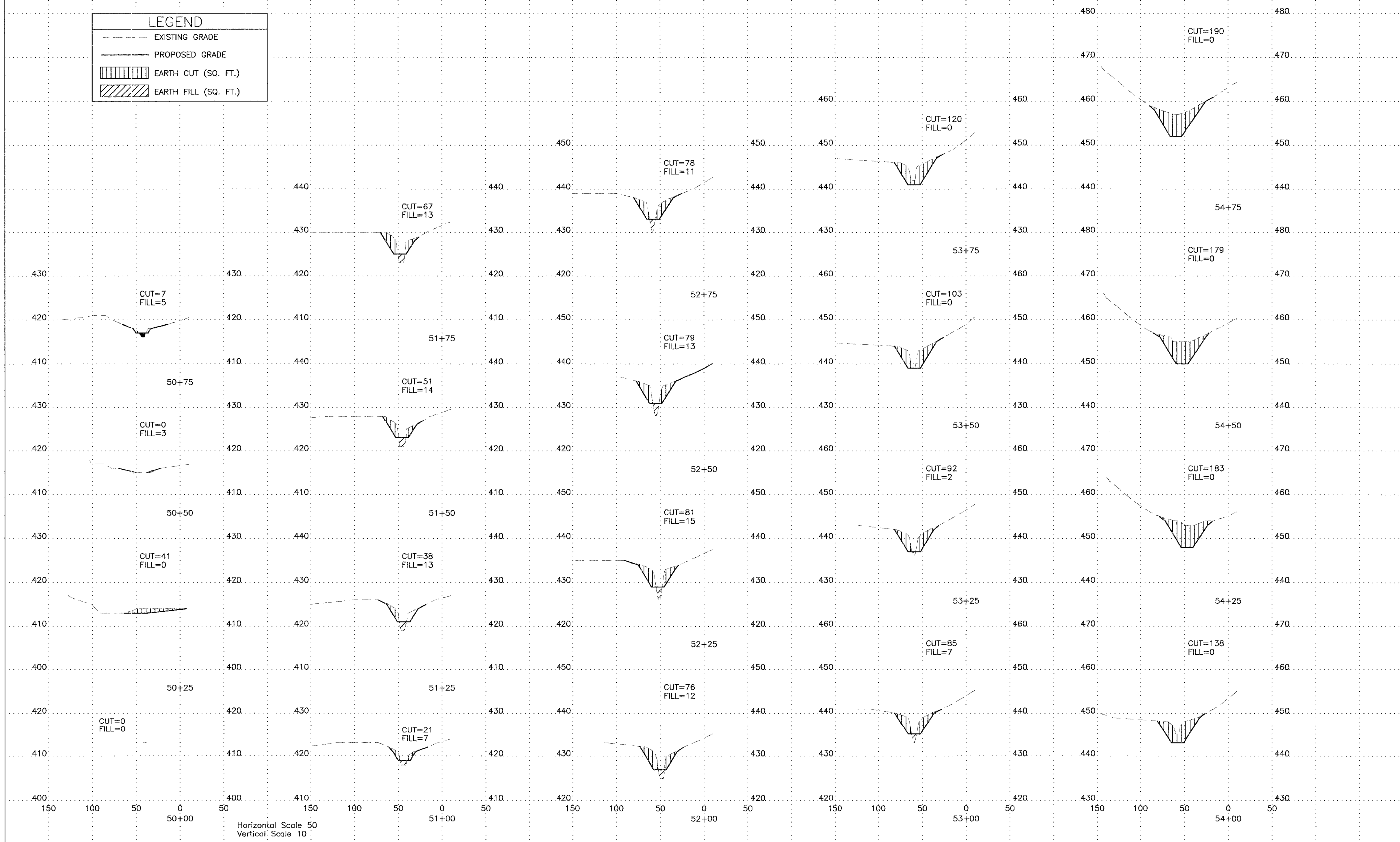
- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT (SQ. FT.)
- ▩ EARTH FILL (SQ. FT.)

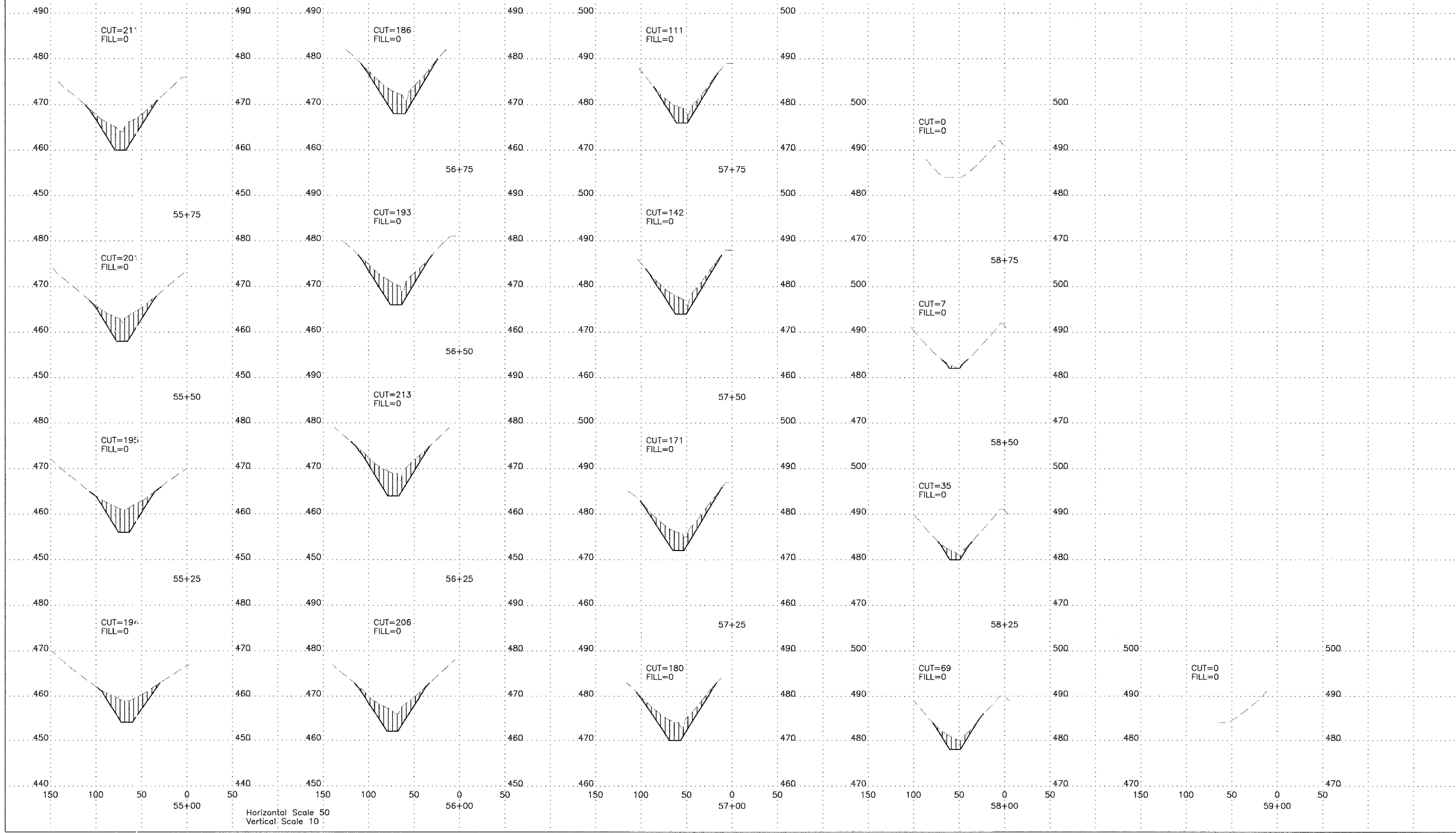


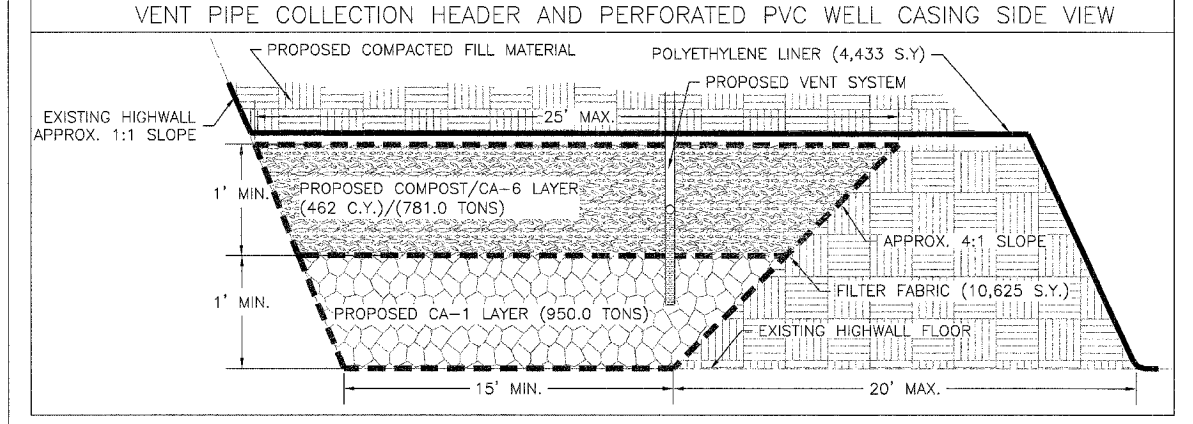
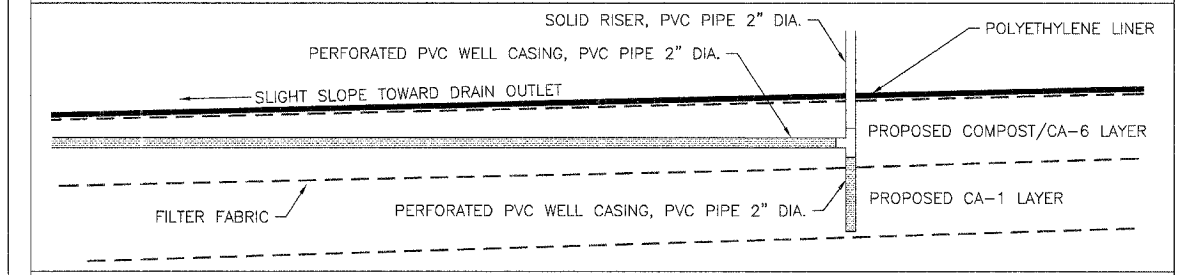
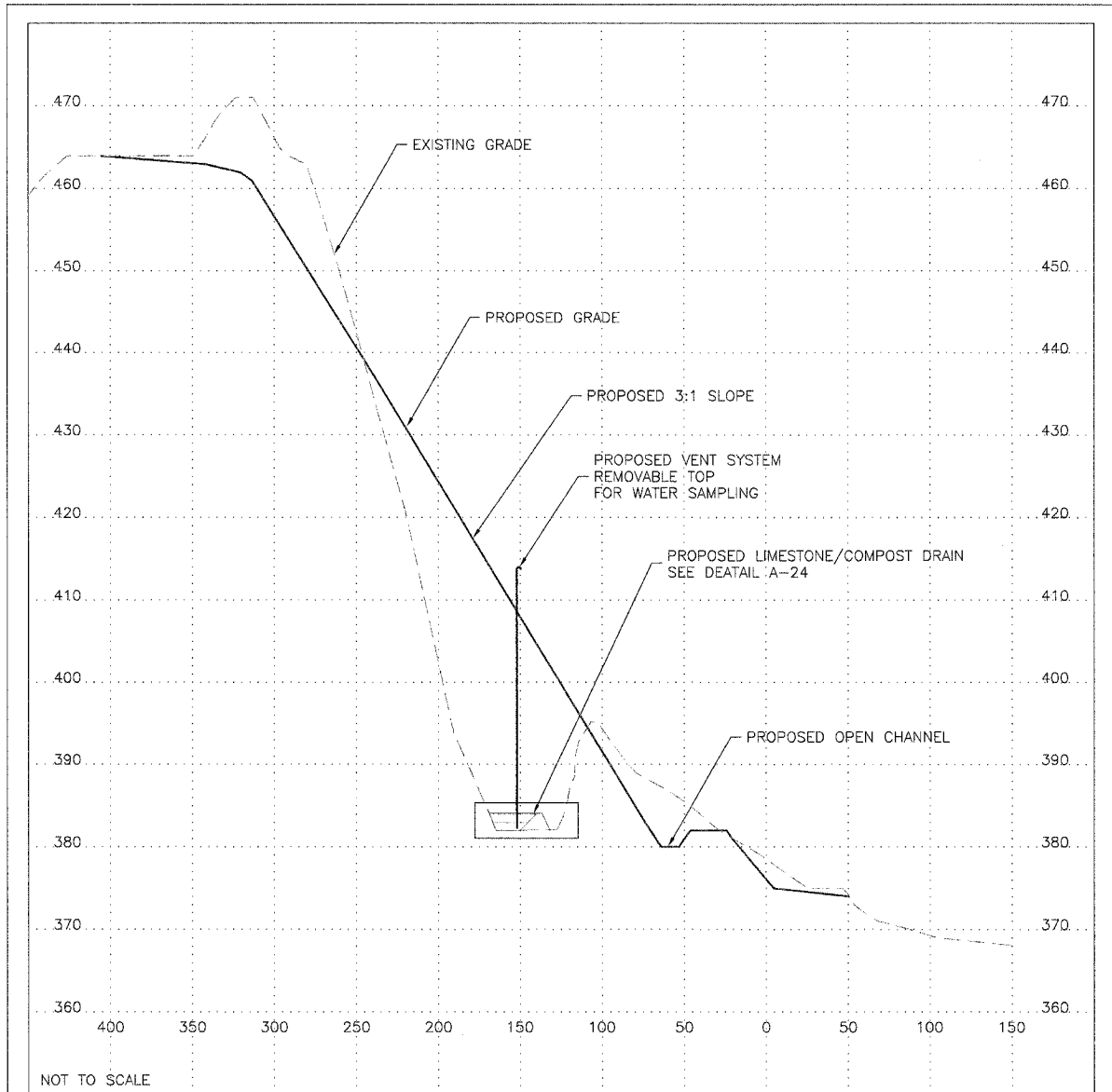
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**LEGEND**

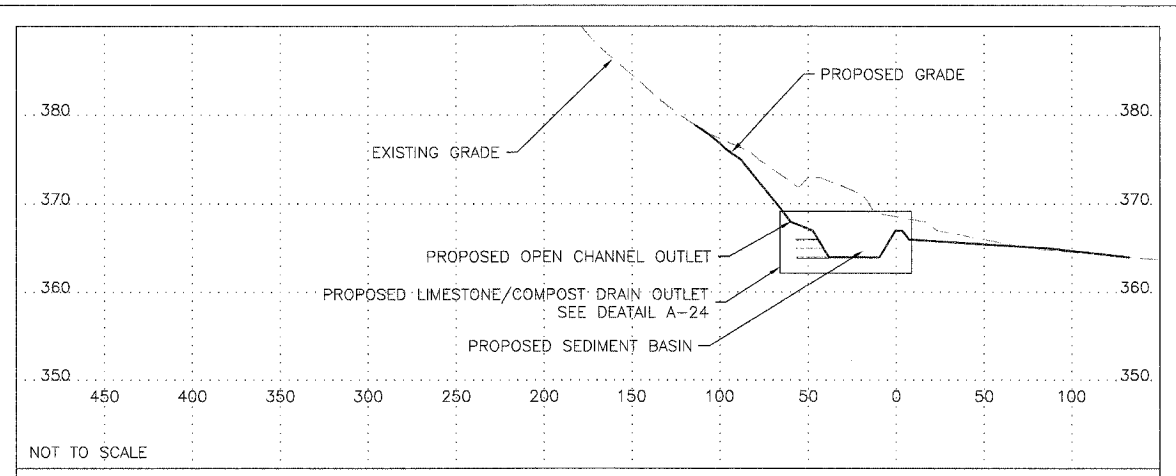
- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT (SQ. FT.)
- ▩ EARTH FILL (SQ. FT.)



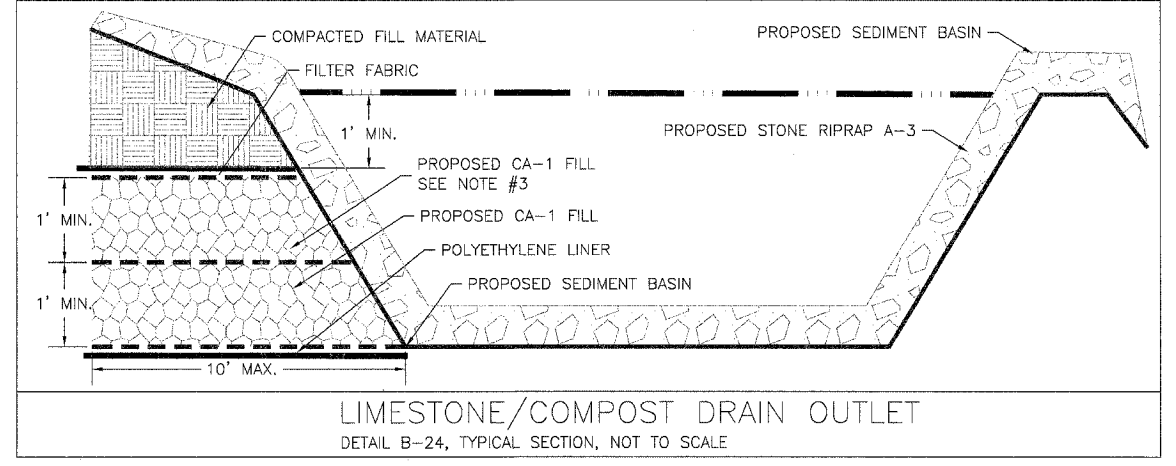




LIMESTONE/COMPOST DRAIN  
DETAIL A-24, TYPICAL CROSS SECTION, NOT TO SCALE



- NOT TO SCALE
- NOTES:
1. THE LIMESTONE/COMPOST DRAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 615 OF THE SPECIAL PROVISIONS.
  2. THE HIGHWALL SIDE AND BASE MUST BE CLEAR OF ALL DEBRIS AND SEDIMENT, TO THE SATISFACTION OF THE ENGINEER, PRIOR TO THE LIMESTONE/COMPOST DRAIN INSTALLATION. NO UNSUITABLE MATERIAL WILL BE ALLOWED WITH IN THE LIMESTONE/COMPOST DRAIN CORRIDOR, AS DIRECTED BY THE ENGINEER. ANY COST ASSOCIATED WITH THE REMOVAL OF UNSUITABLE MATERIAL PRIOR TO THE LIMESTONE/COMPOST DRAIN PLACEMENT, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.
  3. COMPOST/CA-6 LAYER SHALL CONSIST ON A 50% MIXTURE. MIXING OF THESE MATERIALS SHALL BE DONE ON SITE, AND TO THE SATISFACTION OF THE ENGINEER.
  4. THE CA-6/COMPOST LAYER SHALL BE CEASED AT A MAXIMUM DISTANCE OF 10 FEET FROM THE PROPOSED DRAIN OUTLETS. FROM THE POINT WHERE THE CA-6/COMPOST LAYER STOPS, THE LIMESTONE/COMPOST DRAIN TRENCH SHALL BE FILLED WITH CA-1 TO THE PROPOSED OUTLETS.
  5. THE LIMESTONE/COMPOST DRAIN SHALL AT ALL TIMES BE COVER BY A MINIMUM OF 4 FEET OF COMPACTED FILL MATERIAL. THIS MATERIAL SHALL BE COMPACTED ACCORDING TO SECTION 205 OF THE SPECIAL PROVISIONS.
  6. THE LIMESTONE/COMPOST DRAIN FLOW LINE MUST HAVE A SLIGHT FALL TOWARD THE PROPOSED OUTLETS, TO THE SATISFACTION OF THE ENGINEER.
  7. THE PROPOSED VENT SYSTEM SHALL HAVE A SOLID RISER A MINIMUM OF 4 FEET ABOVE PROPOSED GRADE. THIS RISER SHALL HAVE A SCREW ON CONNECTOR TO FACILITATE CONVERSION ONTO SAMPLING WATER WELL.



SPACING LETTERS

2.0"	3.5"
1.5"	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"	2.5"
1.5"	2.0"
1.5"	2.0"
2.0"	2.0"

RECLAMATION PROJECT  
of the  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF ILLINOIS

ROD R. BLAGOJEVICH, GOVERNOR  
10" dia. Sam Flood, Acting Director  
Department 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, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
3. The posts shall be made of 4" x 4" wood or 2.5" metal pipe, and shall be 10' long. The sign shall be securely fastened to the posts with six 2.5" long, round head wood screws (for wood posts) or four 5" long, 3/8" diameter carriage bolts (for wood or metal posts).
4. The top of the sign shall be level with the top of the posts, and the posts shall be 1' from the edges of the sign. The posts shall be set in the ground 3', so that the bottom of the sign is 3' from the ground.

CONSTRUCTION SIGN  
DETAIL C-24, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER