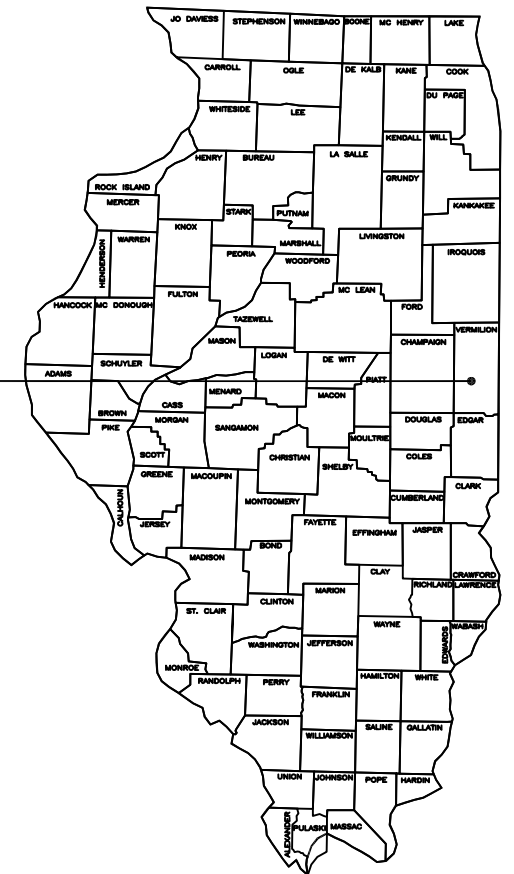


**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

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

**Kickapoo State Park Mine**  
**Reclamation Project**  
**AML-GVeE-1208**  
**Vermilion County**  
**1LR**

Kickapoo State Park Mine  
 Vermilion County



**NOTE:**


A Pre-Bid meeting is scheduled for this project at 10:30 A.M., Thursday, Nov. 1 2012 at the Kickapoo State Park Office located on Kickapoo Park Road. All interested prime and subcontractors are encouraged to attend.

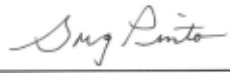
**SCHEDULE OF DRAWINGS:**

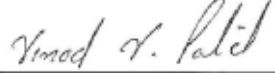
1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Existing and Proposed Conditions - Fox Camp Ground
4. Existing and Proposed Conditions - Mine #6
5. Existing and Proposed Conditions - Mine 6557
- 6-9. Cross Sections
10. Details


IDOT Standards  
 Precast Reinforced Concrete End Section Standard 542301  
 Traffic Control and Protection Standard 701201

Prepared By IDNR Staff

Approved for Bidding:  
  
 Michael L. Woods, Director  
 Office of Mines and Minerals

Approved By:  
  
 Greg Pinto, Acting Manager  
 AML Division

Approved By:  
  
 Vinodchandra V. Patel  
 IL Licensed Professional Engineer  
 No. 062.046043



**Summary of Quantities**

#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	14,260	C.Y.	
3	Class SI Concrete Plug	216	30	C.Y.	Mine 6557 only
4	Seeding - Class 3, Northern Illinois Slope Mixture	IDOT 250	1.8	Acre	
5	Nitrogen Fertilizer Nutrient	IDOT 250	432	Pound	120 lbs/acre - 2 applications
6	Phosphorous Fertilizer Nutrient	IDOT 250	360	Pound	100 lbs/acre - 2 applications
7	Potassium Fertilizer Nutrient	IDOT 250	900	Pound	250 lbs/acre - 2 applications
8	Agricultural Ground Limestone	IDOT 250	18	Ton	10 tons/acre
9	Stone Riprap, A-4	IDOT 281	101	S.Y.	
10	Filter Fabric	IDOT 282	167	S.Y.	
11	Aggregate Ditch	IDOT 283	31	Ton	
12	Special Excelsior Blanket	286	8,428	S.Y.	
13	Removal of Existing Structures	501	1	L.S.	
14	Pipe Culverts, 12" Dia. RCCP	IDOT 542	34	Foot	
15	End Sections, 12" Dia. RCCP	IDOT 542	2	Each	
16	Geotechnical Fabric for French Drains	601	622	S.Y.	
17	French Drains	601	192	Ton	
18	Repair of Masonry Mine Seal	643	1	L.S.	Mine #6 only
19	Ornamental Steel Fencing	644	1	L.S.	Mine #6 only
20	Mobilization (Max. 6% of Bid)	671	1	L.S.	
21	Traffic Control and Protection Standard 701201	IDOT 701	1	L.S.	Mine 6557 only

**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.

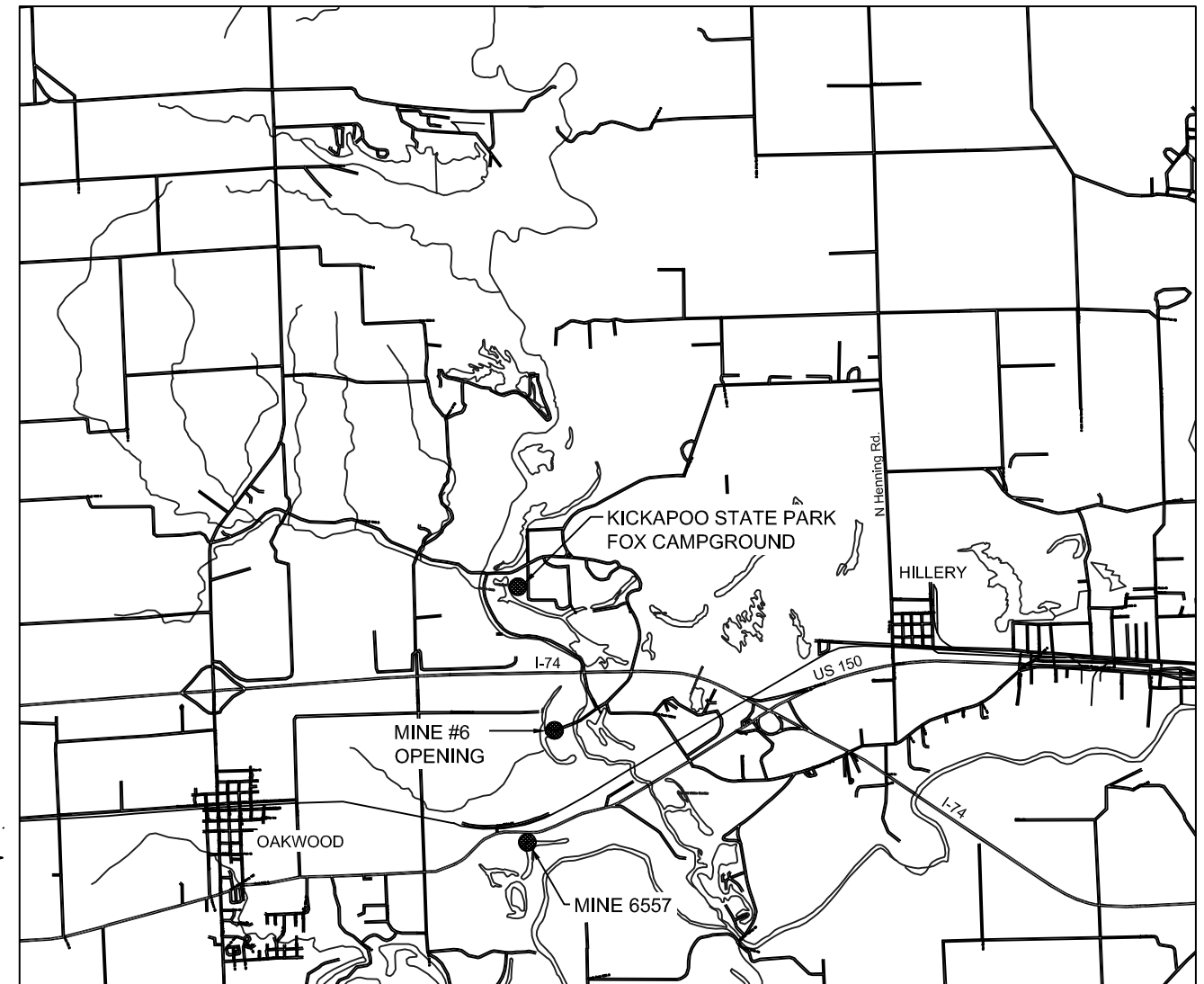
**TREE REMOVAL**-Trees removed shall be disposed of per Section 201 and 202 of the Special Provisions. Organic waste (i.e., plant refuse resulting from special clearing) shall not be buried, burned or left as a brush pile within the State Park. All organic waste that is chipped or shredded to a size suitable for use on park trails may be transported to a designated location(s) within the park that has been approved by Park Superintendent. All other organic waste (i.e., root wads, branches and trunks too large to be chipped, etc.) shall be removed from the site and recycled, reused or legally disposed of in accordance with applicable laws.

**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.

**SCHEDULE OF SEEDING AND SOIL AMENDMENTS**-Soil amendments and seeding shall be completed during the Spring seeding period of March 1, 2013 through April 30, 2013. All areas shall receive a second application of fertilizer during the month of August, 2013.



**Location Map**

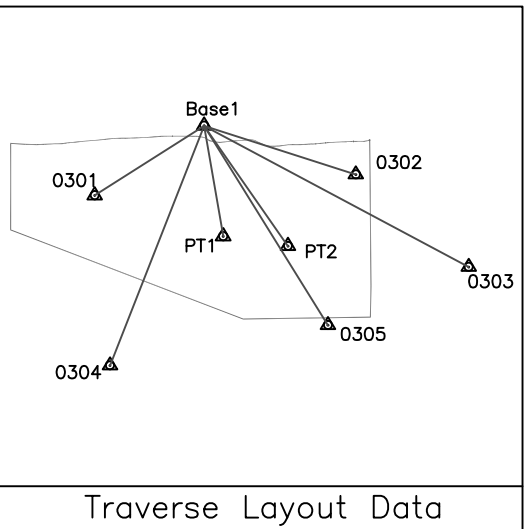
State of Illinois  
Department of Natural Resources

Kickapoo State Park Mine  
Reclamation Project  
AML-GvE-1208  
Vermilion County

Date: \_\_\_\_\_

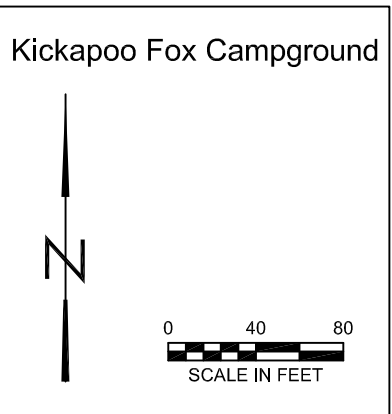
Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Summary of Quantities/  
General Notes/Location Map  
Sheet  
2 of 10



REMOVAL OF EXISTING STRUCTURES SHALL INCLUDE REMOVAL OF ALL ABOVE GRADE PORTIONS OF THE BORE HOLE MONITORING FACILITY. THE BORE HOLES SHALL BE FILLED WITH GROUT TO A LEVEL 3 FEET BELOW PROPOSED GRADE AND COVERED WITH SOIL. REMOVAL OF EXISTING STRUCTURES SHALL ALSO INCLUDE REMOVAL OF THE PART OF THE EXISTING 12" DIAMETER CMP CULVERT THAT WILL BE EXPOSED BY RESHAPING THE HIGHWALL. REMOVAL SHALL BE BUT CUTTING THE PIPE, LEAVING A SMOOTH EDGE SUBJECT TO APPROVAL OF THE ENGINEER.

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



SE 1/4 of SE 1/4 of SECTION 5, T19N, R12W

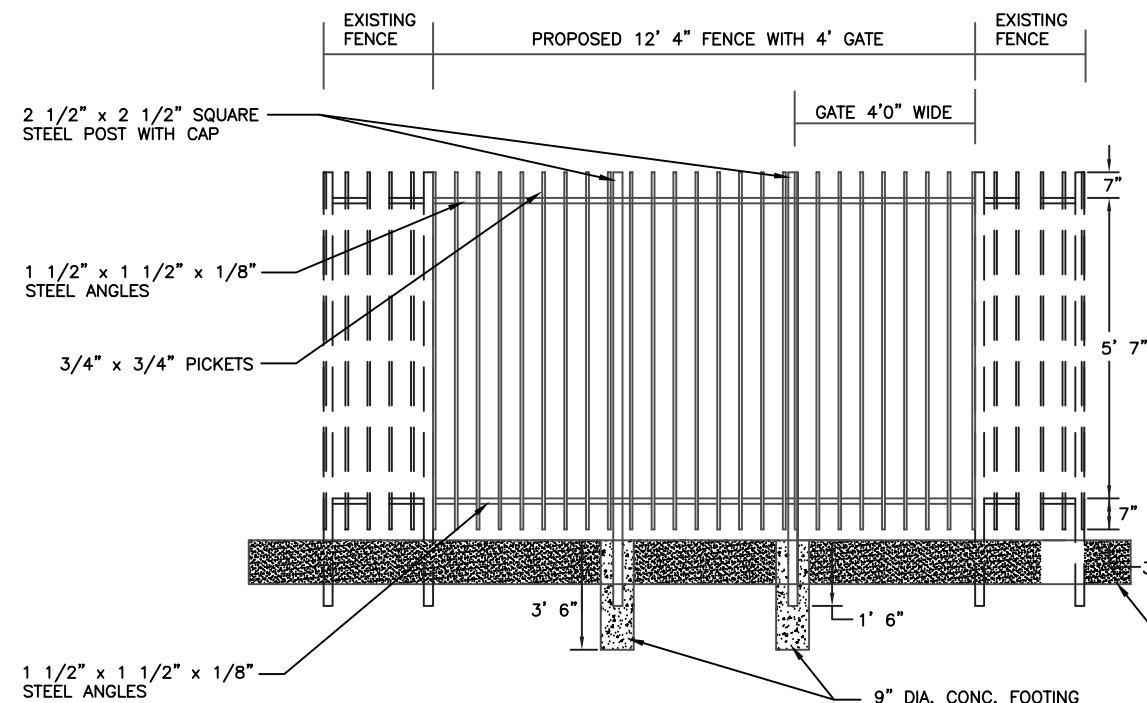
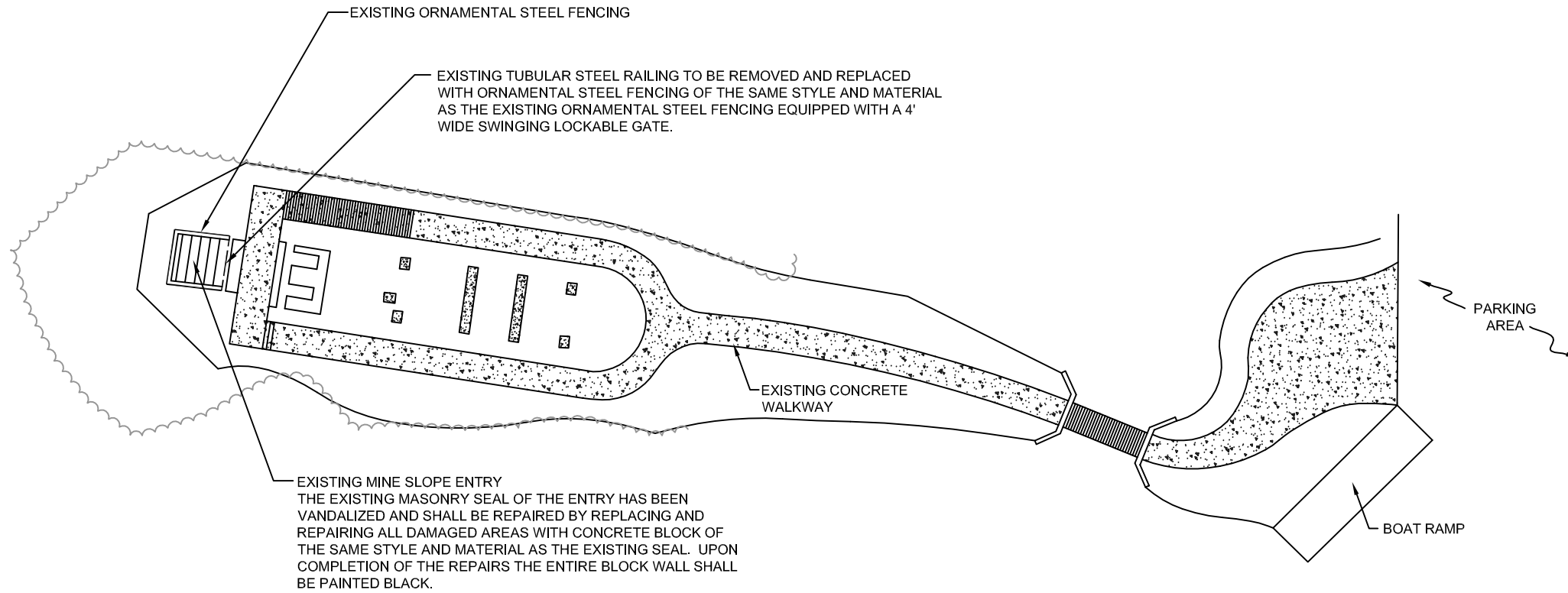
NOTE:  
WATER LEVEL 550.2  
ALL GRADED AREAS TO BE COVERED WITH SPECIAL EXCELSIOR BLANKET (8428 S.Y.)

12" DIA. RCCP PIPE DRAIN WITH FLARED END SECTION (SEE DETAIL C/10) (46 FEET TOTAL INCLUDING END SECTIONS)

AGGREGATE V-DITCH WITH RR-2 RIPRAP 8'x40' (2 NOS.) (31 TONS TOTAL) (SEE DETAIL A/10)

4'x2' TOE DRAIN, C-7 WRAPPED IN NON WOVEN FILTER FABRIC (SEE DETAIL C/10) (192 TONS CA-7 AND 622 S.Y. FILTER FABRIC)

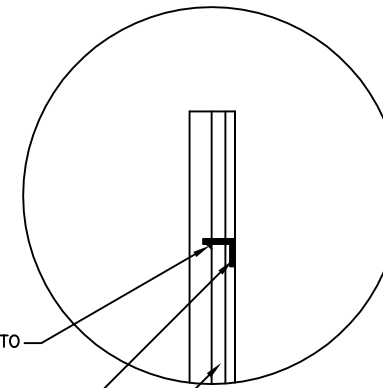
V-DITCH WITH RIPRAP A-4 8'x114' (SEE DETAIL B/10) (101 S.Y.)



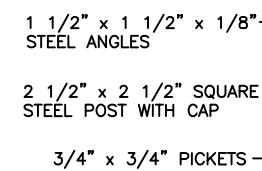
**FRONT VIEW**

**ORNAMENTAL STEEL FENCE**  
NOT TO SCALE

NOTE: NEW FENCE CONSTRUCTED TO MATCH THE EXISTING FENCE.

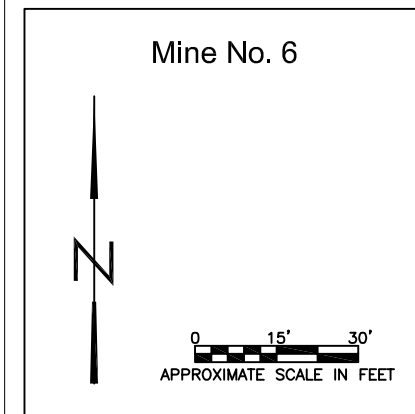


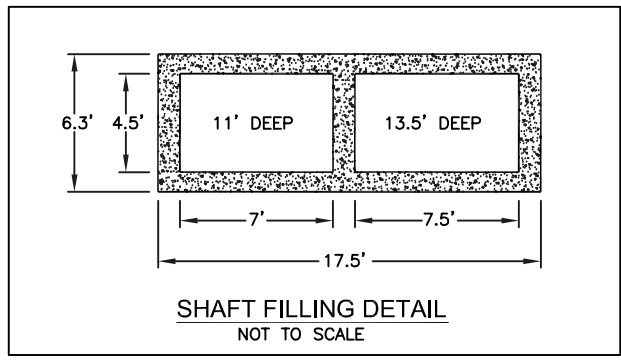
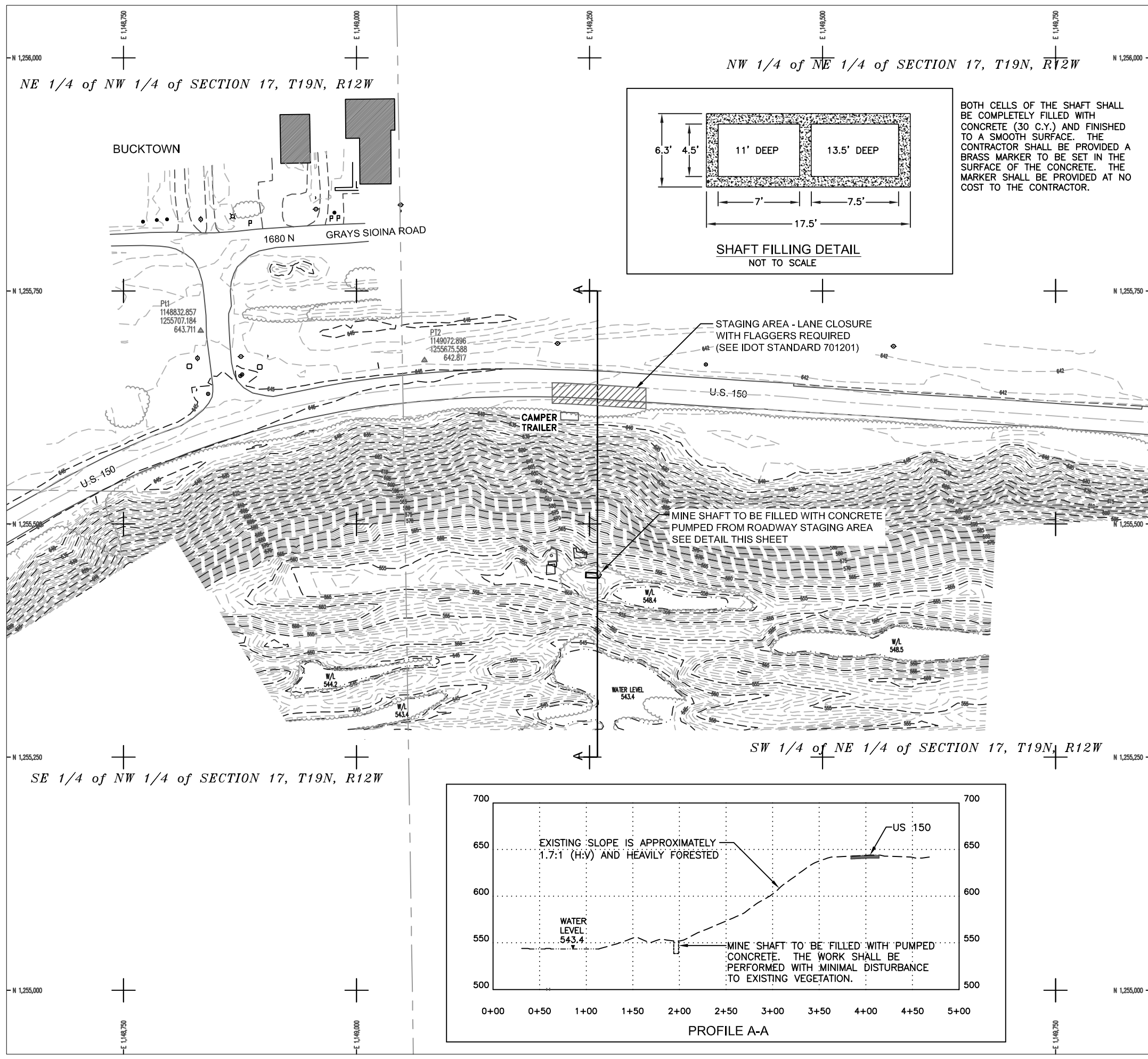
**WELDING DETAIL**



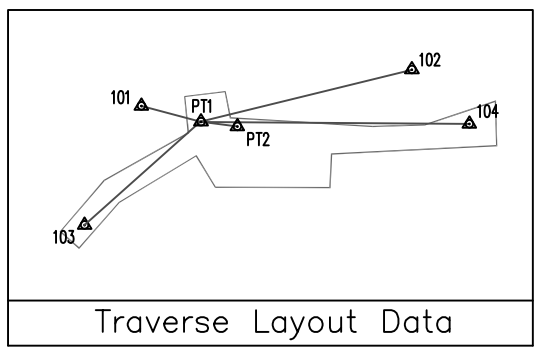
**SIDE VIEW**

EXISTING CONCRETE THE CONTRACTOR SHALL REMOVE SOME OF THE EXISTING CONCRETE TO FACILITATE THE EXCAVATION OF POST HOLES TO ANCHOR THE ORNAMENTAL STEEL FENCE POSTS. CONCRETE USED TO ANCHOR THE POSTS SHALL BE FINISHED SMOOTH TO MATCH THE LINES OF THE EXISTING CONCRETE

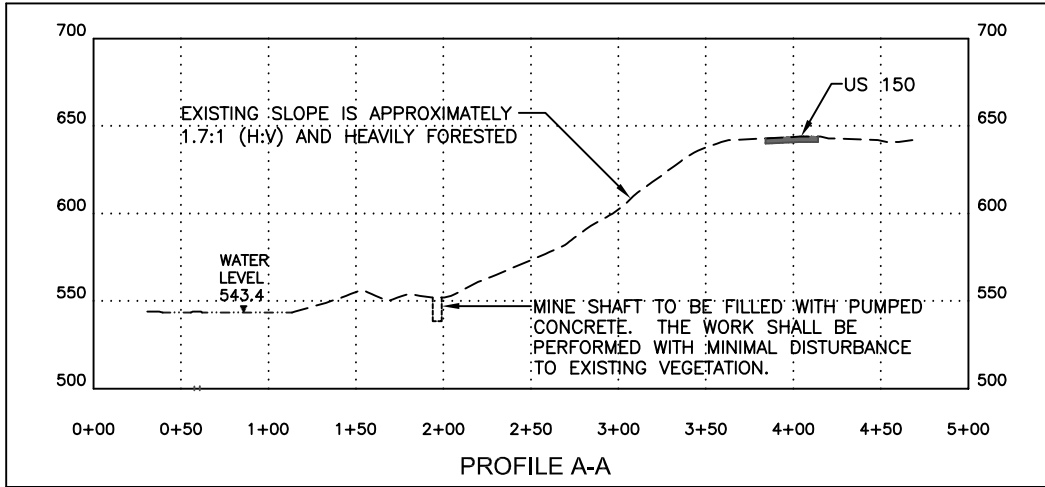




BOTH CELLS OF THE SHAFT SHALL BE COMPLETELY FILLED WITH CONCRETE (30 C.Y.) AND FINISHED TO A SMOOTH SURFACE. THE CONTRACTOR SHALL BE PROVIDED A BRASS MARKER TO BE SET IN THE SURFACE OF THE CONCRETE. THE MARKER SHALL BE PROVIDED AT NO COST TO THE CONTRACTOR.

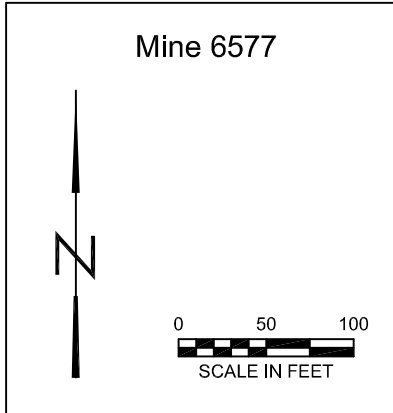


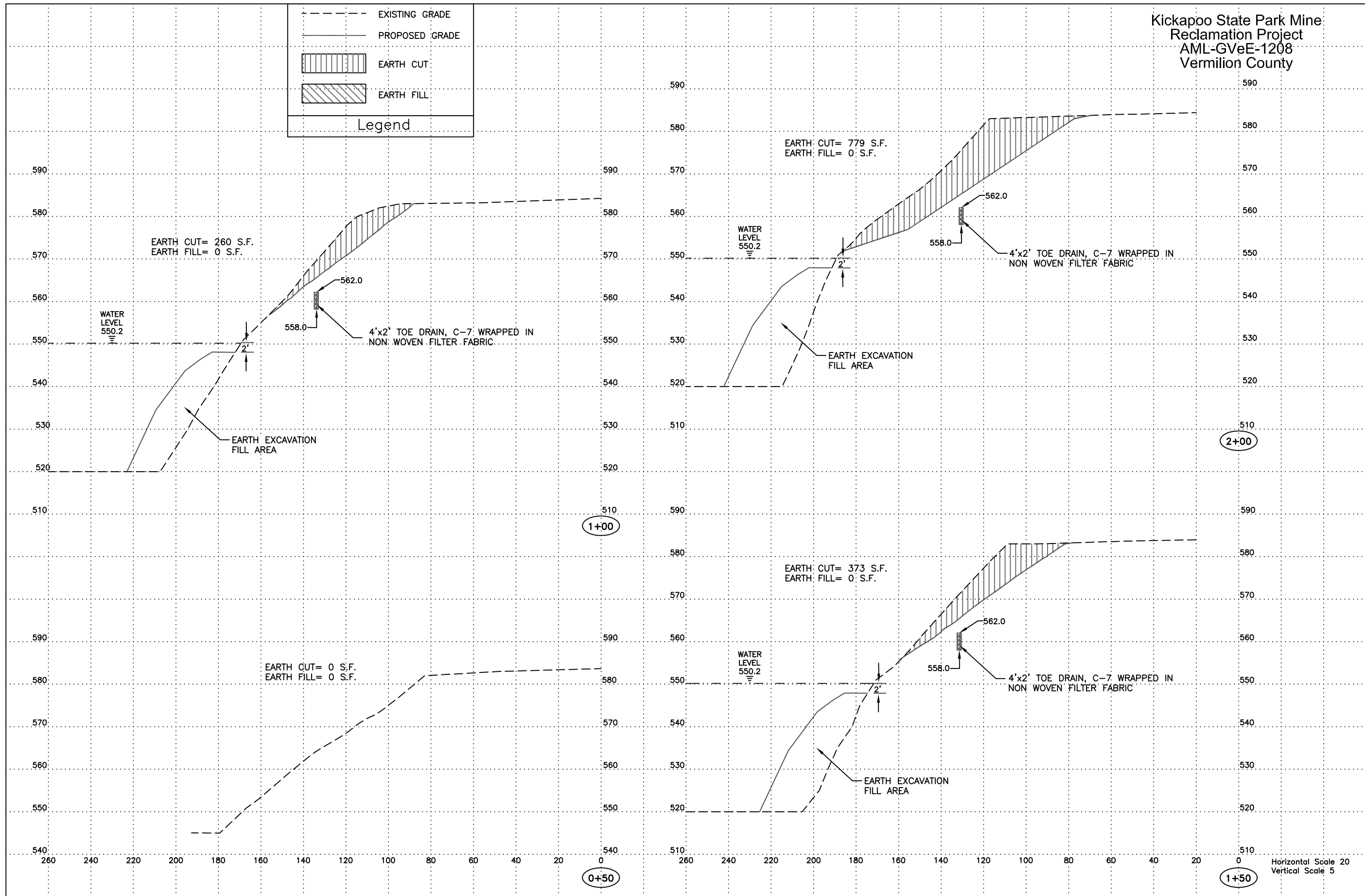
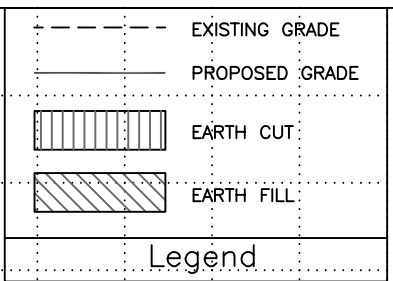
**NOTE:**  
DUE TO THE UNKNOWN CONDITIONS THAT EXIST IN AND AROUND THE SHAFT, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING WORK NEAR THE SHAFT. THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITY FOR SPECIAL EXCAVATION AND BACKFILLING MATERIALS AS DETERMINED BY THE EXACT CONDITIONS ENCOUNTERED DURING SPECIAL EXCAVATION.



**Legend**

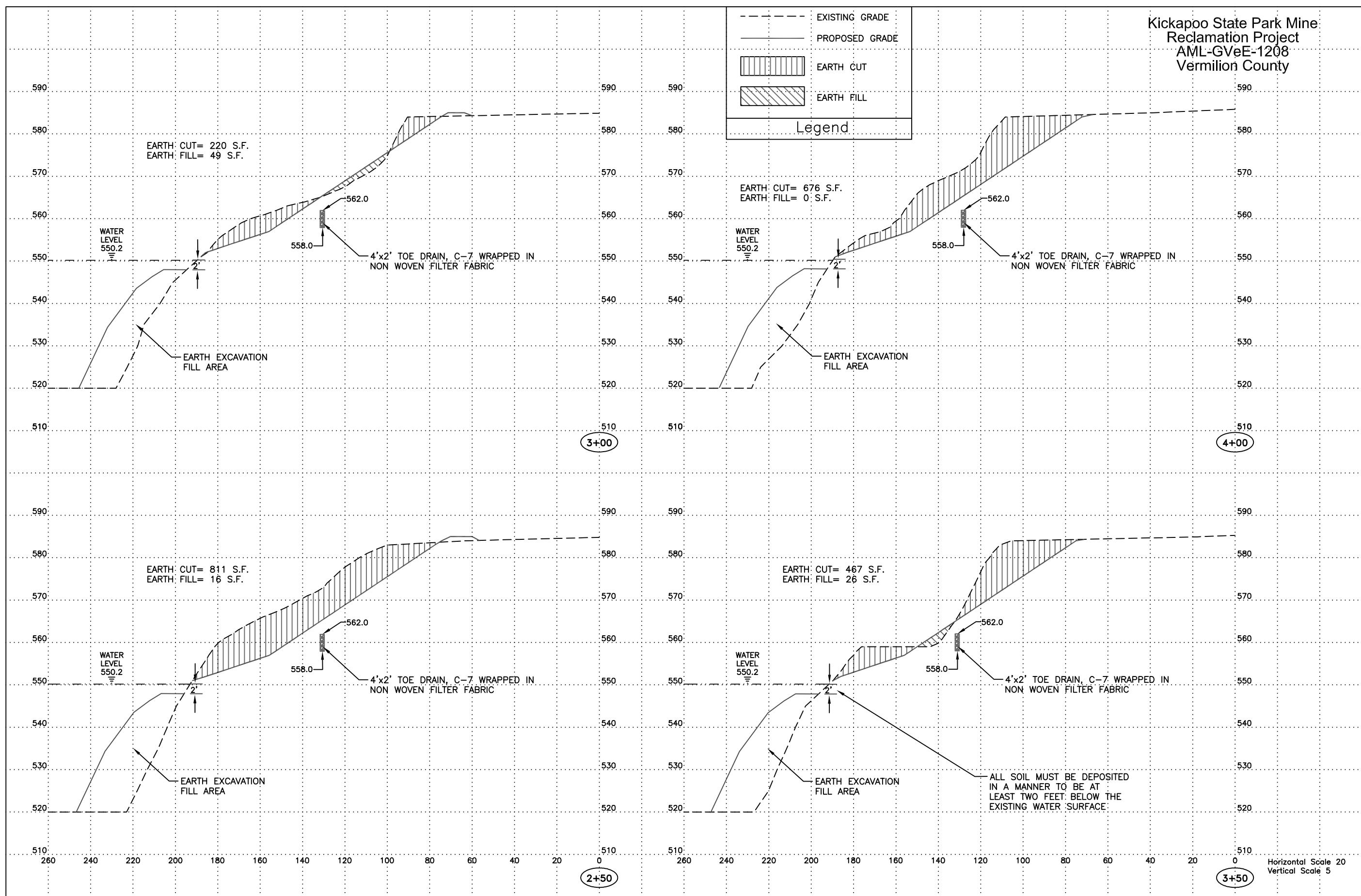
---400---	EXISTING CONTOUR
—	EDGE OF ROAD
~~~~~	TREELINE
- - - - -	EDGE OF WATER
▲	SURVEY CONTROL POINT



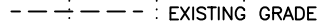
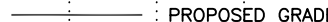




	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL

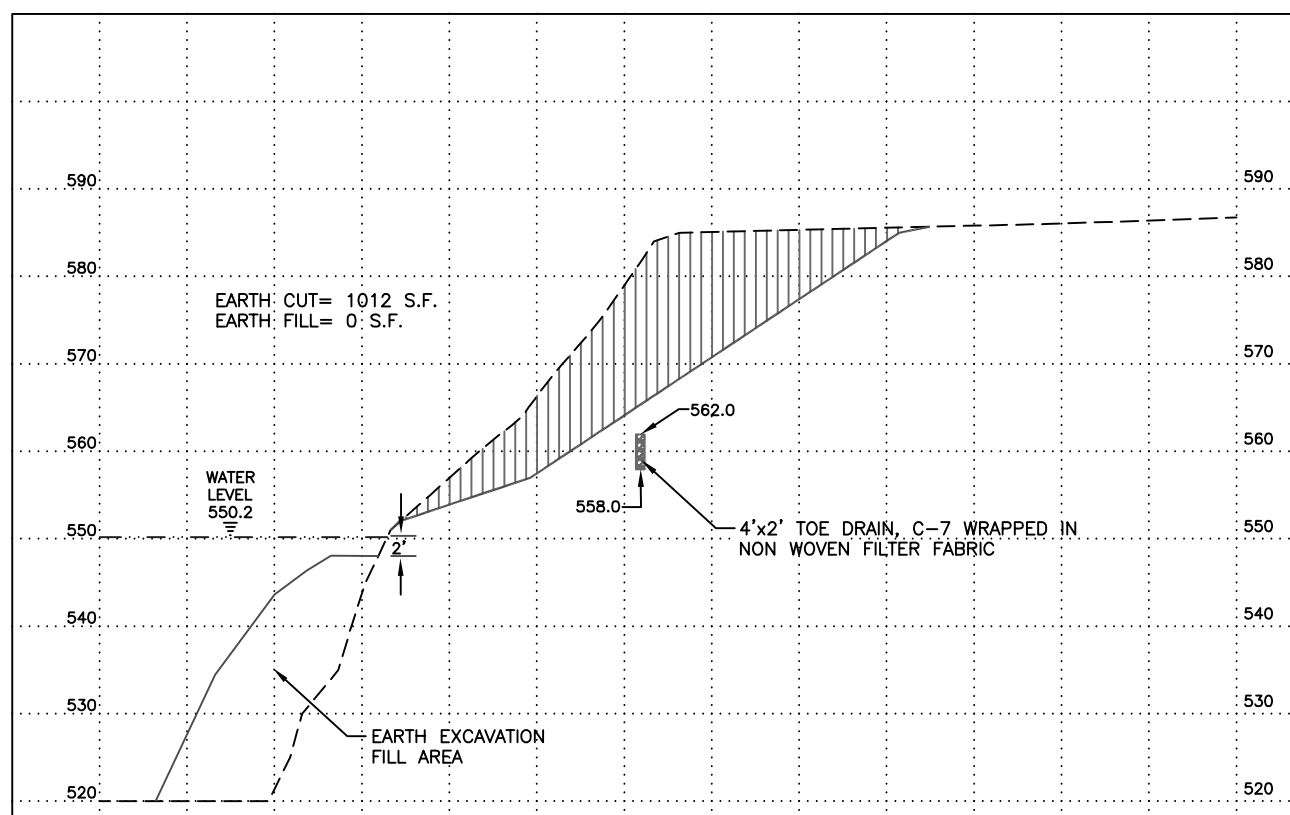
Legend



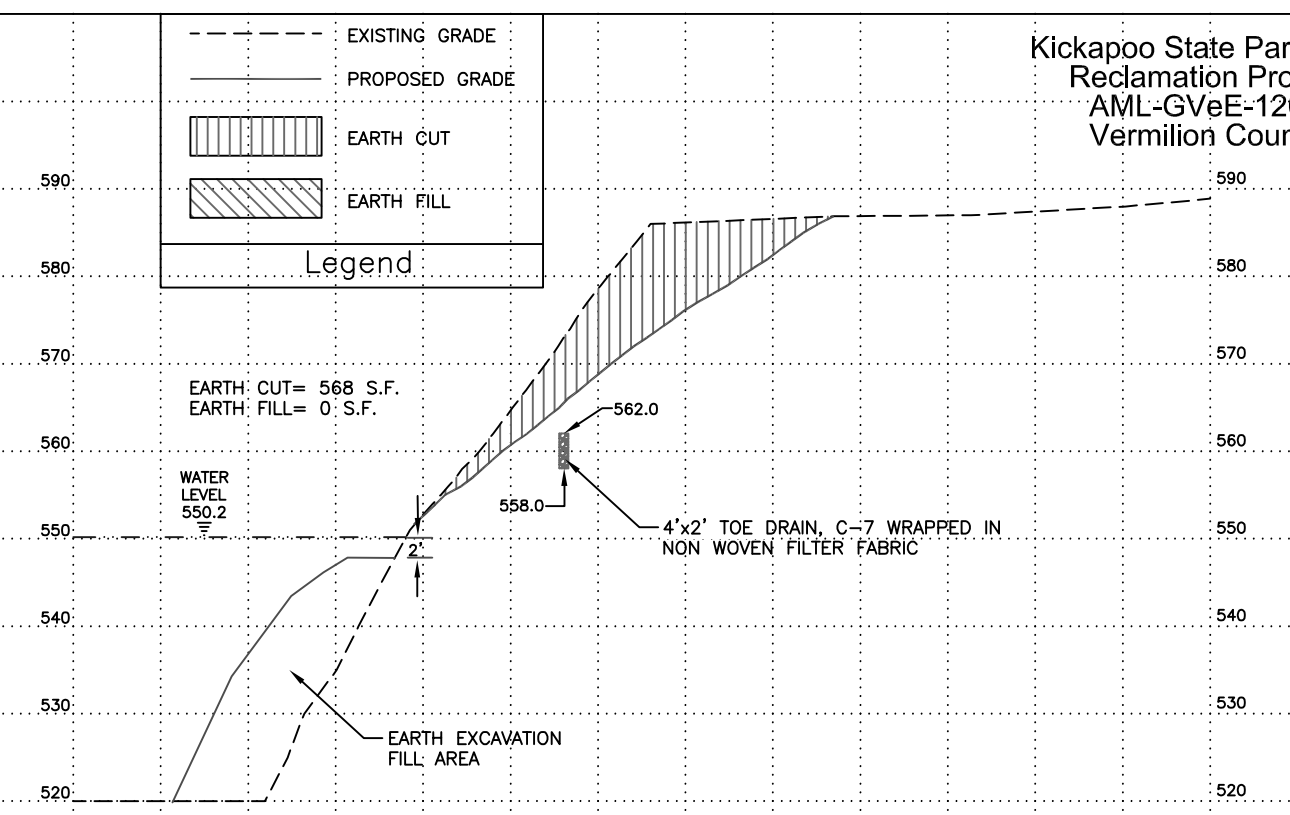


	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL

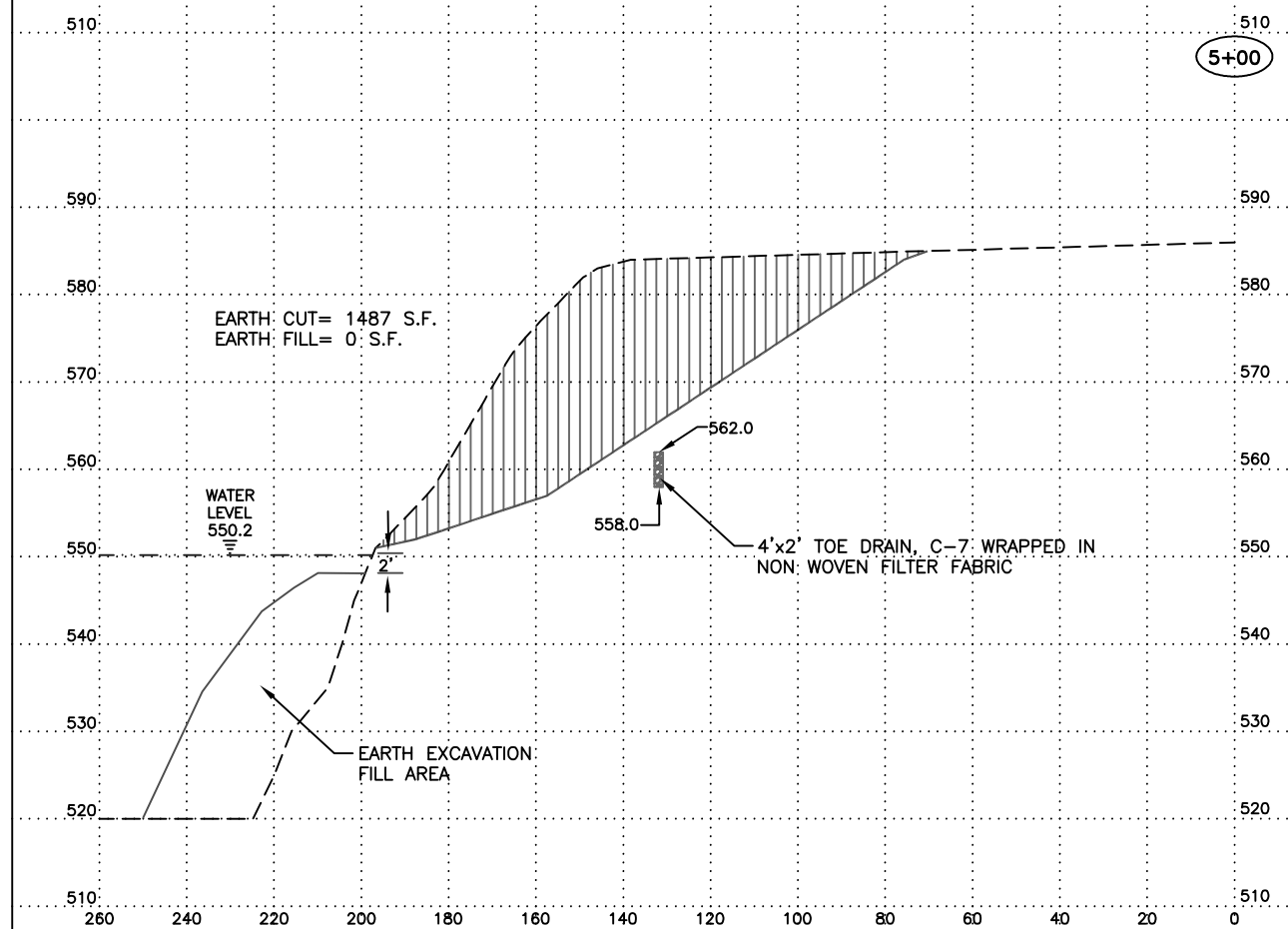
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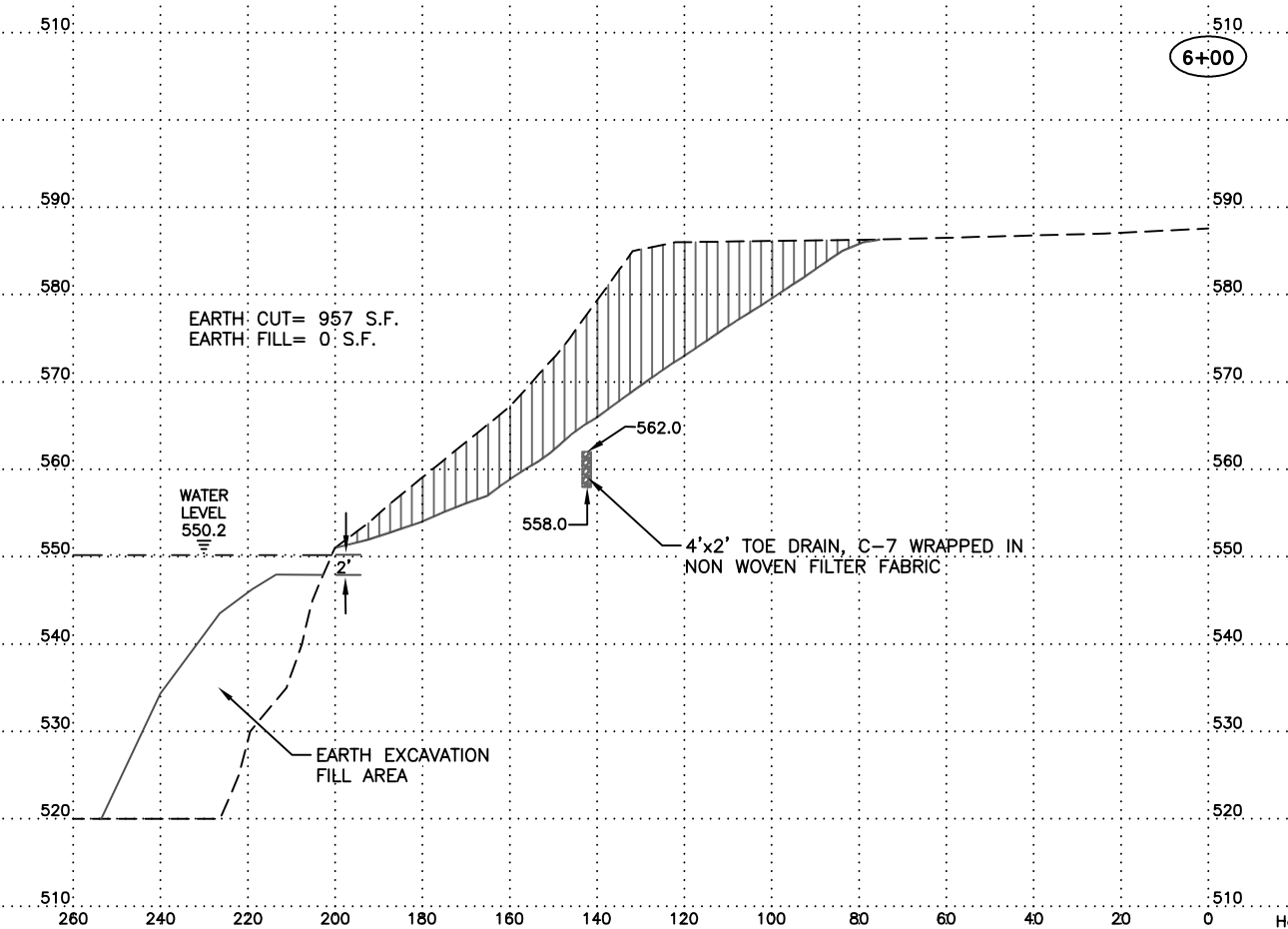
5+00



6+00



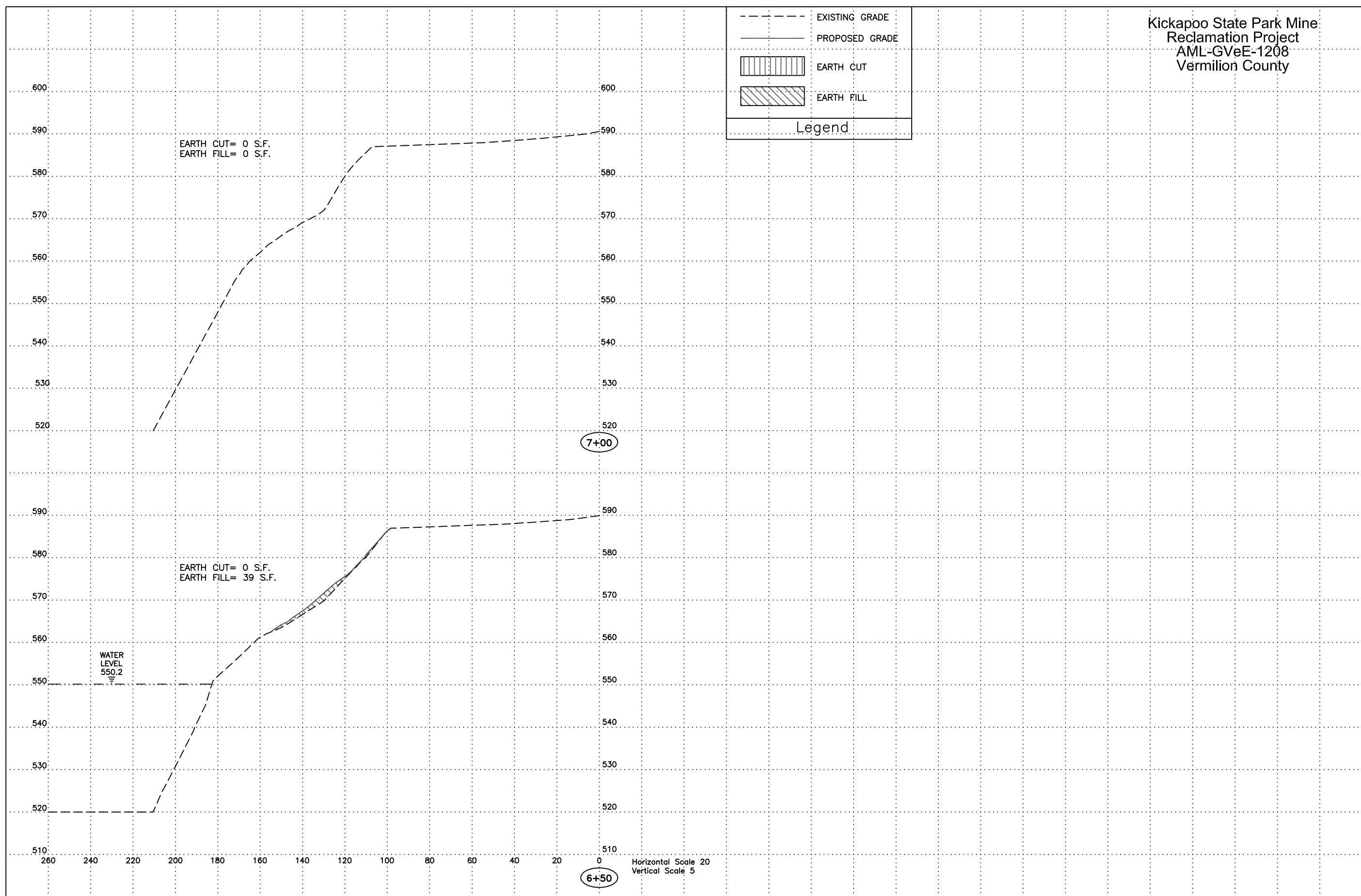
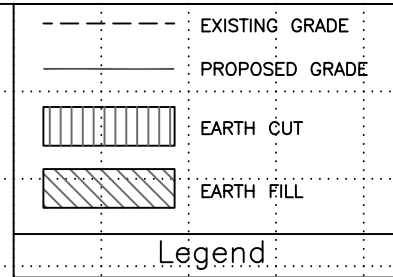
4+50



5+50

Horizontal Scale 20  
Vertical Scale 5





Horizontal Scale 20  
 Vertical Scale 5

