

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

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

Kickapoo - Dynegy Lake
 Reclamation Project
 AML-GVeE-1708
 Vermilion County
 2LR

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Survey Information
- 4-10. Existing and Proposed Conditions
- 11-23. Cross Sections
24. Detail Sheet

IDOT Standards

- Precast Reinforced Concrete Flared End Section - Standard 542301
- Woven Wire Fence - Standard 665001
- Metal Post for Signs, Markers and Delineators - Standard 720011

Contract No. M1708

Prepared By IDNR Staff

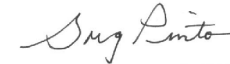
Approved for Bidding:



Thomas A. Benner, Director
 Office of Mines and Minerals

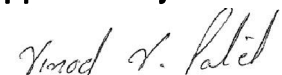
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Approved By:



Greg Pinto, Acting Manager
 AMLR Division

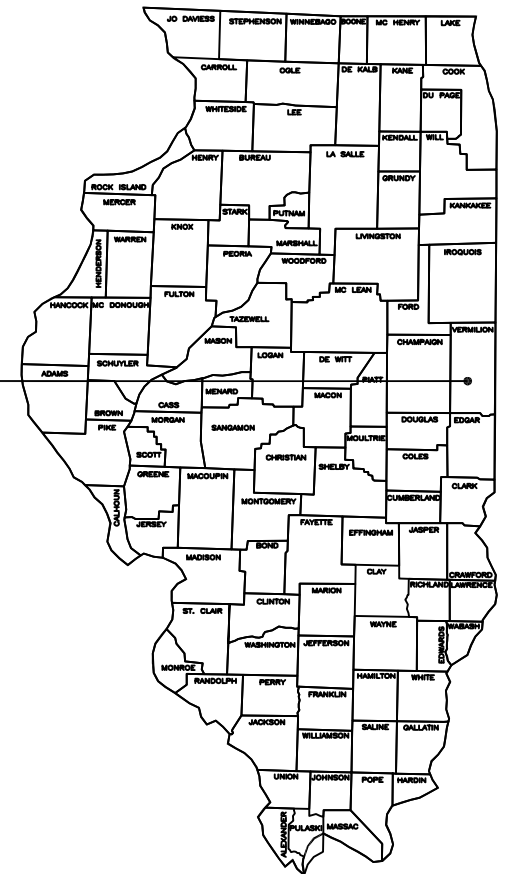
Approved By:



Vinodchandra V. Patel
 IL Licensed Professional Engineer
 No. 062.046043



Kickapoo State Park Mine
 Vermilion County



NOTE:

A Pre-Bid meeting is scheduled for this project for 10:00 A.M., Wednesday, November 8, 2017 at the Kickapoo State Recreation Area, Mountain Bike Trail parking lot.

Summary of Quantities

Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	Special Clearing	201	1	L SUM	
NRM20210	2	Earth Excavation	202	327,607	CU YD	Compaction in accordance with Sec. 205
NRM25040	3	Nitrogen Fertilizer Nutrient	250	13,872	POUND	120 pounds/acre
NRM25050	4	Phosphorous Fertilizer Nutrient	250	11,560	POUND	100 pounds/acre
NRM25060	5	Potassium Fertilizer Nutrient	250	40,460	POUND	350 pounds/acre
NRM25070	6	Agricultural Ground Limestone	250	578	TON	10 tons/acre
NRM25090	7	Seeding	250	57.8	ACRE	
25100115	8	Mulch, Method 2	IDOT 251	46.4	ACRE	2 tons/acre, Procedure 1
25301800	9	Seedlings	IDOT 253	21	UNIT	See Construction Note. 100 per Unit
NRM25810	10	Mowing	258	57.8	ACRE	
NRM28040	11	Perimeter Erosion Barrier	280	8,712	FOOT	9" Rolled Excelsior
28100107	12	Stone Riprap, Class A4	IDOT 210	2,494	SQ YD	
28200200	13	Filter Fabric	IDOT 282	3,602	SQ YD	
28400700	14	Slope Mattress 9"	IDOT 284	1,108	SQ YD	
NRM28610	15	Special Excelsior Blanket	286	52,764	SQ YD	
40200800	16	Aggregate Surface Course, Type B	IDOT 402	1,678	TON	
542A0229	17	Pipe Culverts, Class A, Type 1 24"	IDOT 542	50	FOOT	
542A0241	18	Pipe Culverts, Class A, Type 1 36"	IDOT 542	194	FOOT	
542A1063	19	Pipe Culverts, Class A, Type 2 18"	IDOT 542	98	FOOT	
54213663	20	Precast Reinforced Conc. Flared End Sections 18"	IDOT 542	2	EACH	
54213669	21	Precast Reinforced Conc. Flared End Sections 24"	IDOT 542	4	EACH	
54213681	22	Precast Reinforced Conc. Flared End Sections 36"	IDOT 542	6	EACH	
66500105	23	Woven Wire Fence 4'	IDOT 665	1,292	FOOT	
NRM67110	24	Mobilization (Max. 6% of Bid)	671	1	L SUM	
72900100	25	Metal Post - Type A	IDOT 729	108	FOOT	12 Post - 9' Each

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. Tree removal must be completed by March 14, 2018

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.

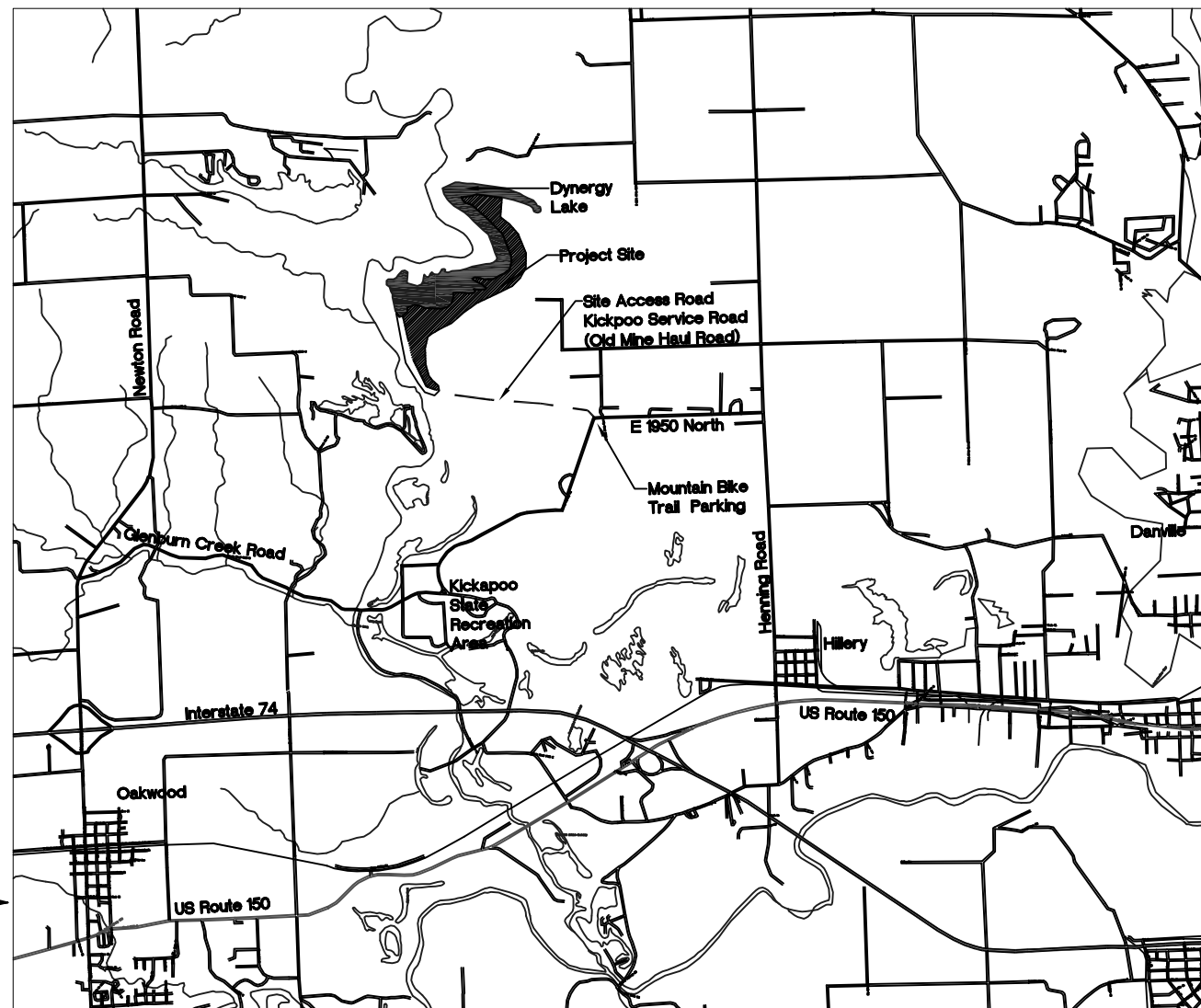
MULCHING-Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 1 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.

SEEDLINGS-The Contractor shall plant at least ten different species from those listed below in the areas identified in the plans. No single species shall comprise less than 4% nor more than 20% of the total mixture. The Engineer shall inspect the seedlings for approval prior to planting.

American Sweetgum
Ohio Buckeye
Smooth Sumac
Pin Oak
White Oak
Black Locust
Hawthorn

Gray Dogwood
Spicebush
Shingle Oak
Northern Red Oak
Red Maple
Hazelnut

Common Witch-hazel
Tuliptree
Black Oak
Bur Oak
Red Oak
Black Cherry
Crab Apple



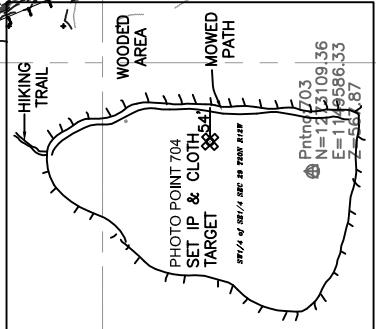
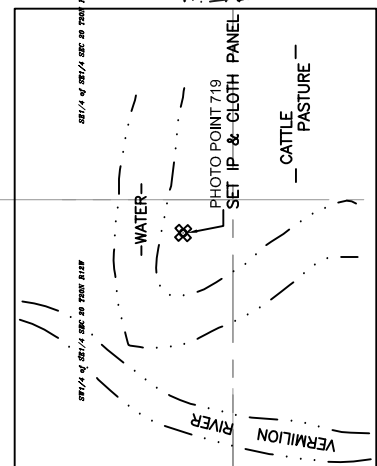
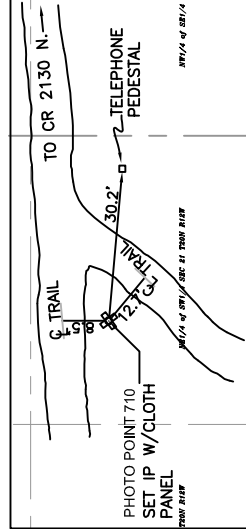
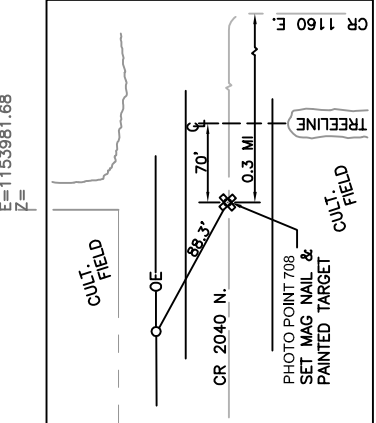
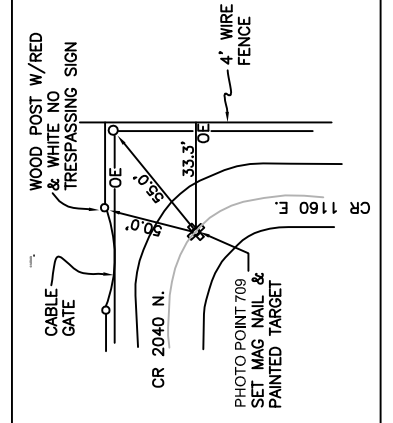
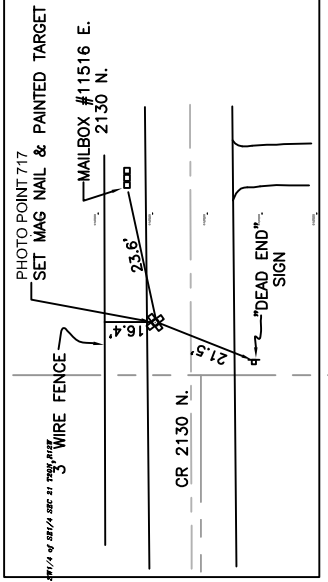
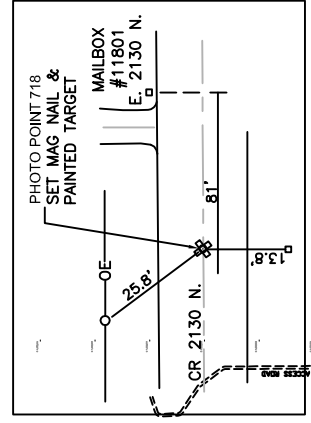
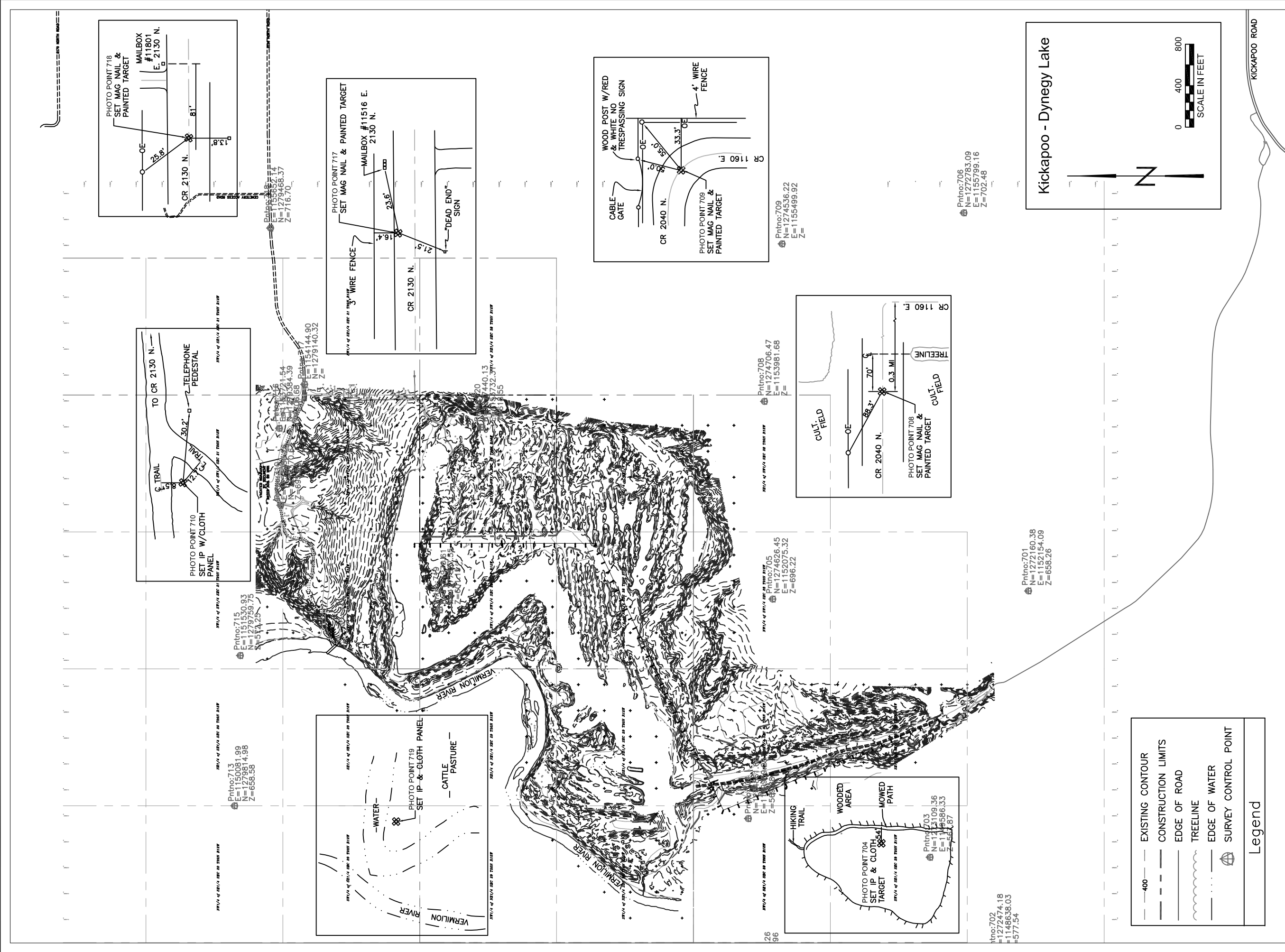
Location Map

State of Illinois
Department of Natural Resources

Kickapoo - Dynergy Lake
Reclamation Project
AML-GvE-1708
Vermilion County

Drawn By: T.M., V.P. Date: 10/2017
Checked By:

Summary of Quantities/
General Notes/Location Map
Sheet
2 of 24



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E=1148638.03
Z=577.54

Pntno:705
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Z=696.22

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

Kickapoo - Dynegy Lake

N

0 400 800
SCALE IN FEET

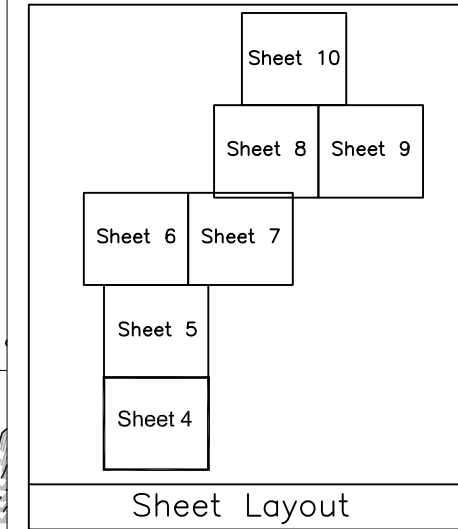
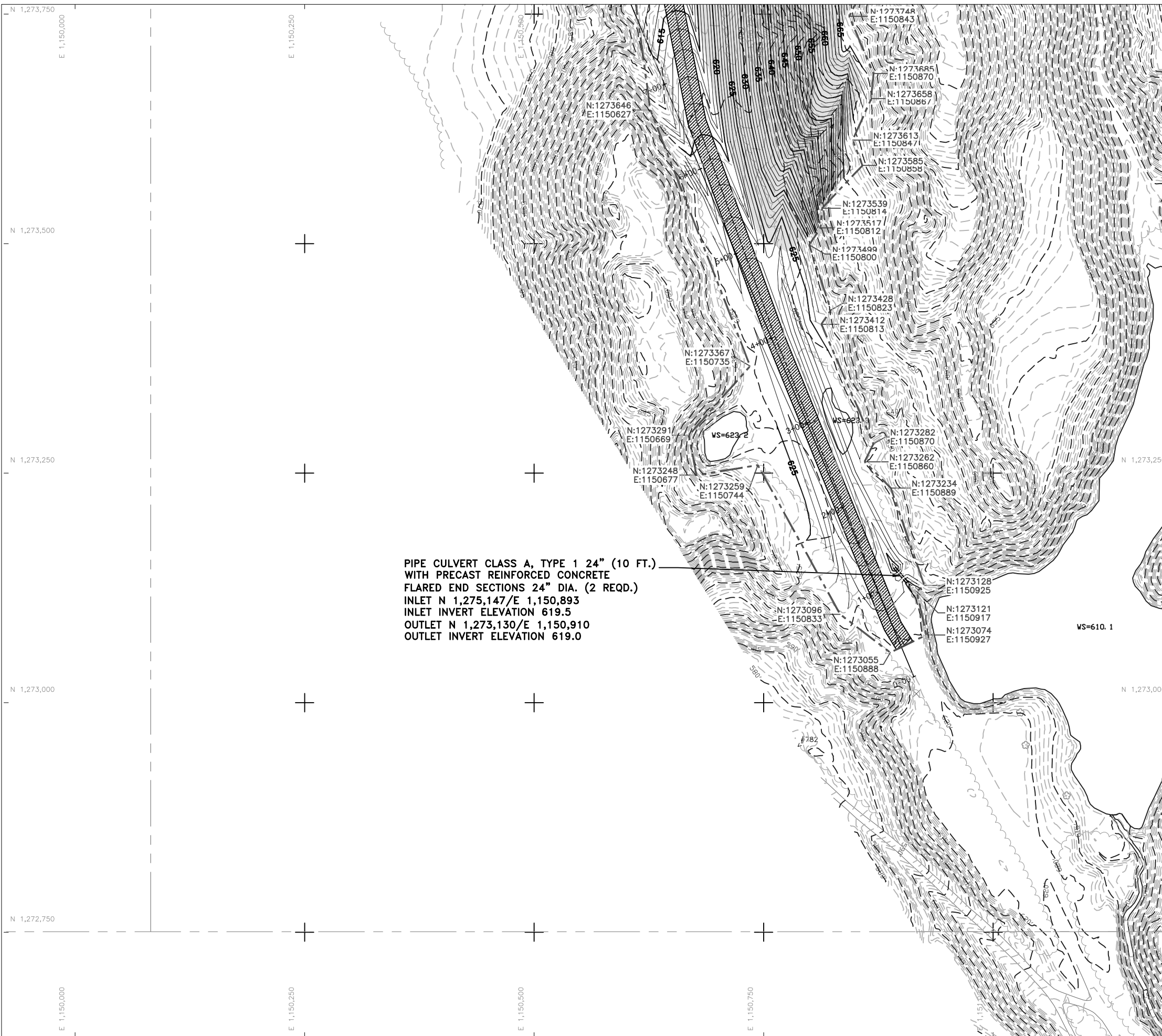
Survey Information

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3 of 24

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Checked By: _____
Date: _____

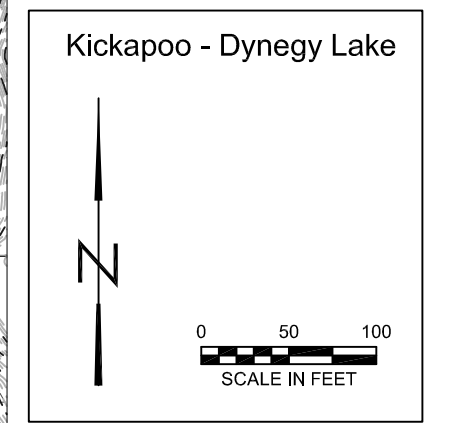
Kickapoo - Dynegy Lake
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Vermilion County

State of Illinois
Department of Natural Resources



---400---	EXISTING CONTOUR
—400—	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
---	EDGE OF ROAD
~~~~~	TREELINE
---	EDGE OF WATER
●—●	EROSION CONTROL BARRIER
▨	SPECIAL EXCELSIOR BLANKET
⊕	SURVEY CONTROL POINT

Legend



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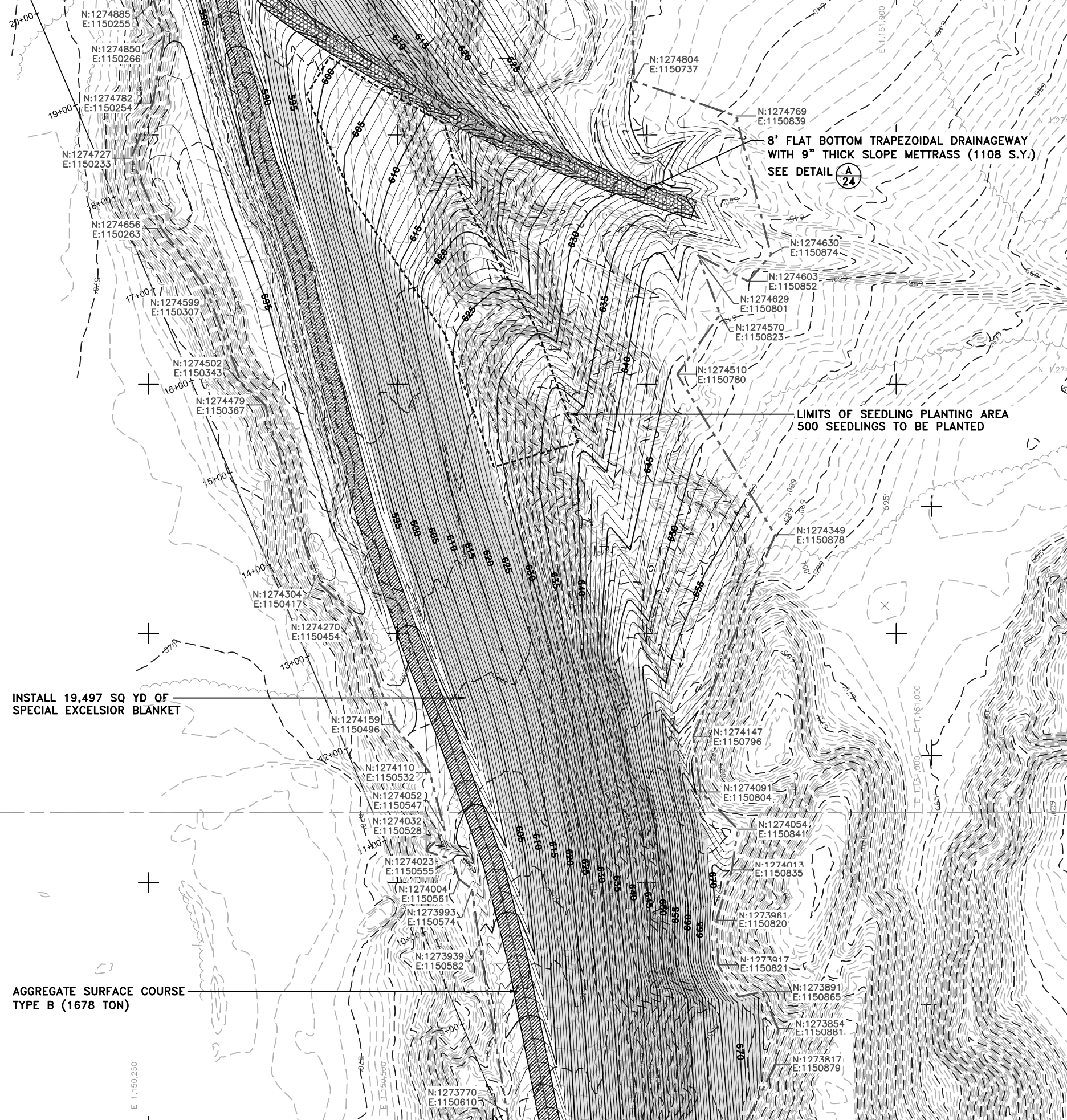
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N 1,274,250

N 1,274,000

E 1,150,000

E 1,150,250

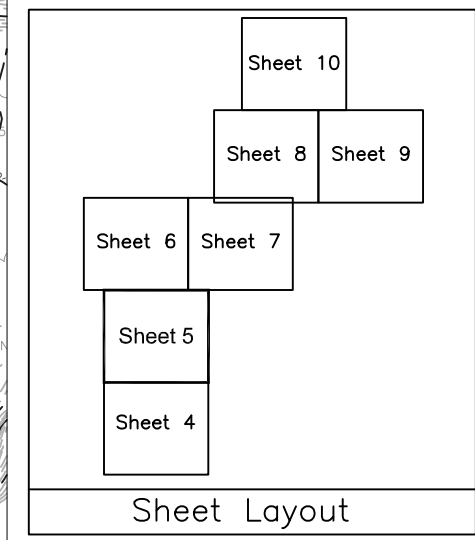


8' FLAT BOTTOM TRAPEZOIDAL DRAINAGEWAY  
 WITH 9" THICK SLOPE METTRASS (1108 S.Y.)  
 SEE DETAIL **A** 24

LIMITS OF SEEDLING PLANTING AREA  
 500 SEEDLINGS TO BE PLANTED

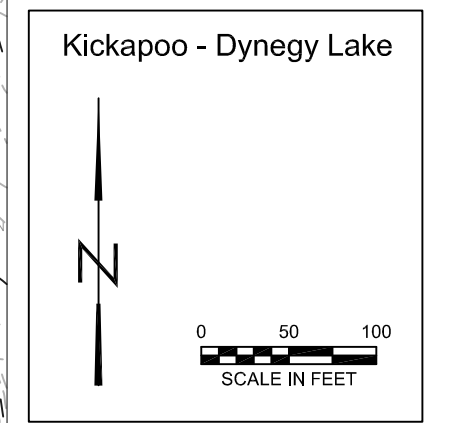
INSTALL 19,497 SQ YD OF  
 SPECIAL EXCELSIOR BLANKET

AGGREGATE SURFACE COURSE  
 TYPE B (1678 TON)



Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	EROSION CONTROL BARRIER
	SPECIAL EXCELSIOR BLANKET
	SURVEY CONTROL POINT

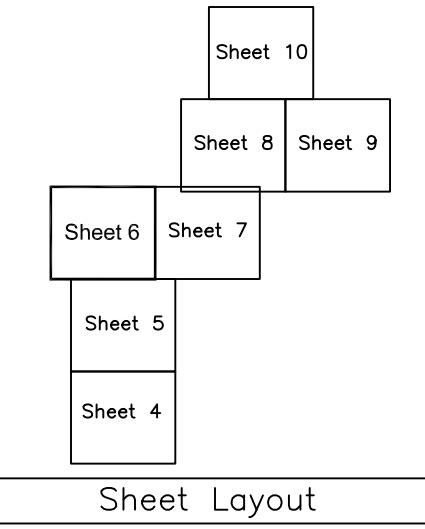
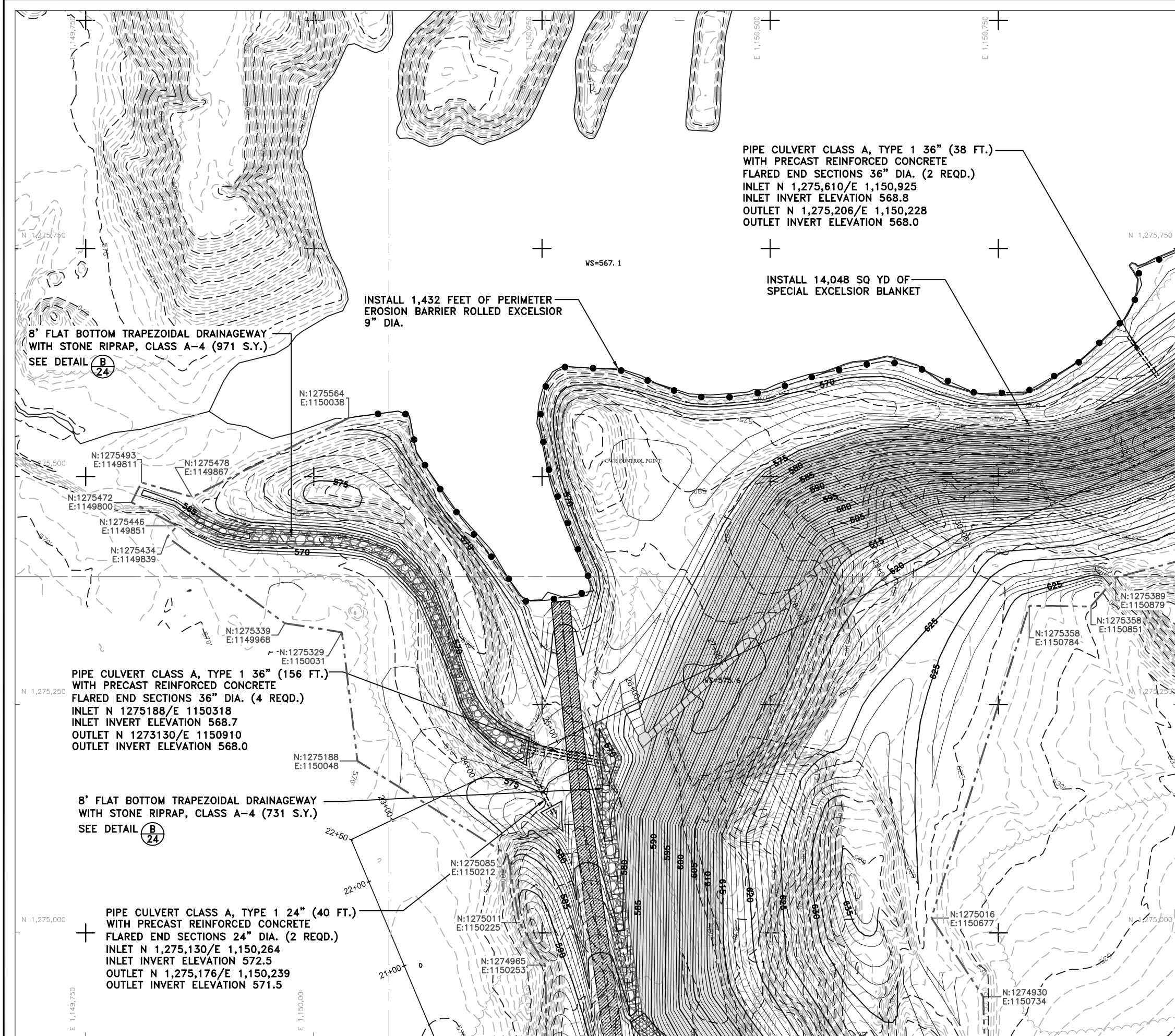


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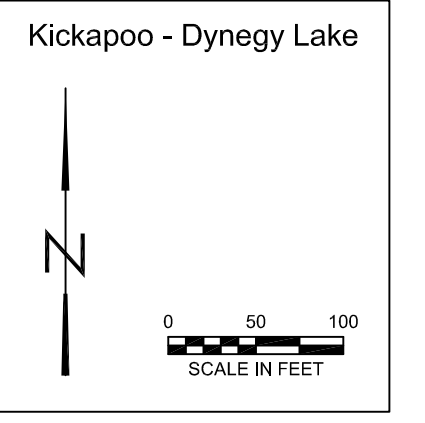
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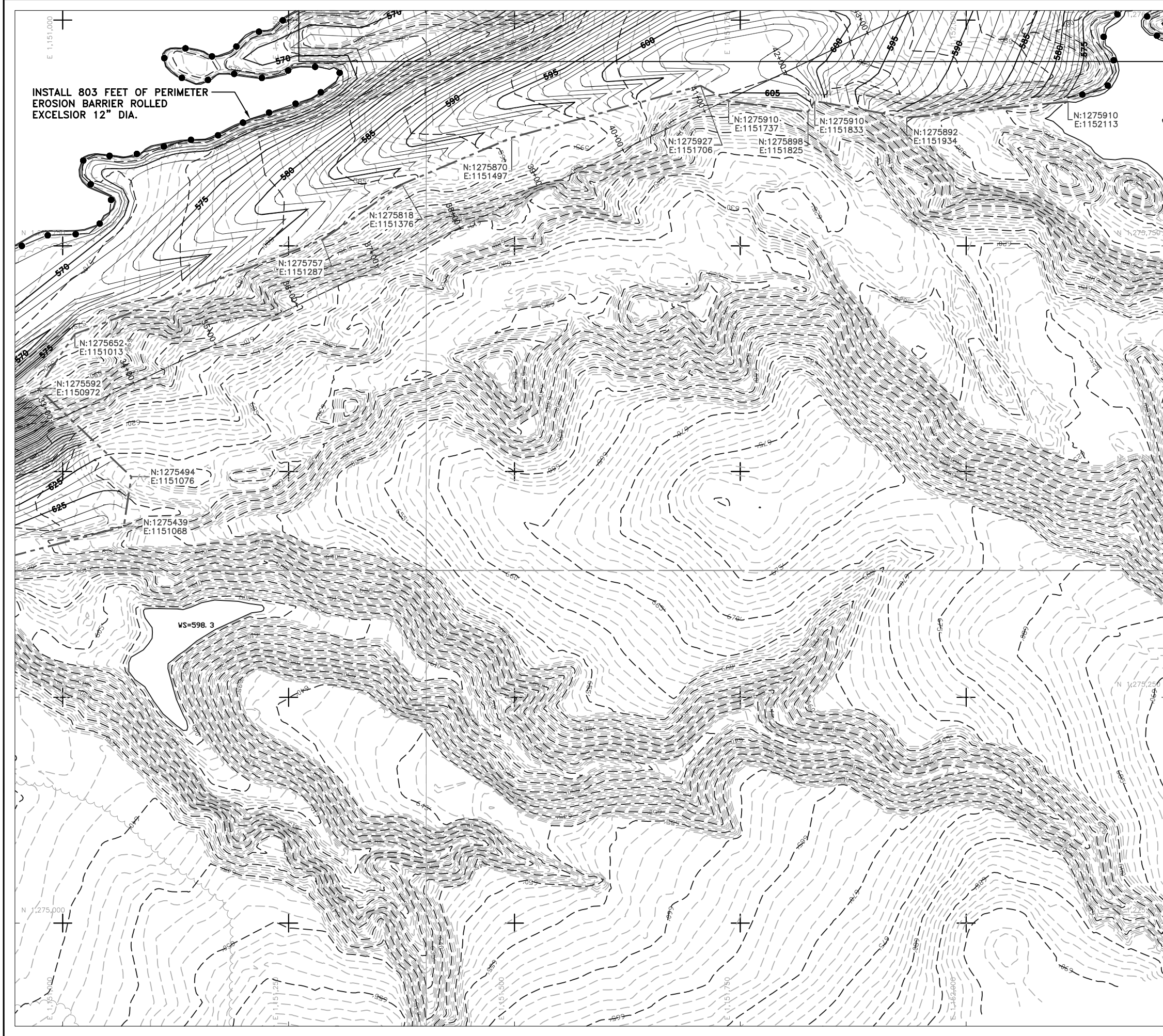
Existing & Proposed  
 Conditions  
 Sheet  
 5 of 24



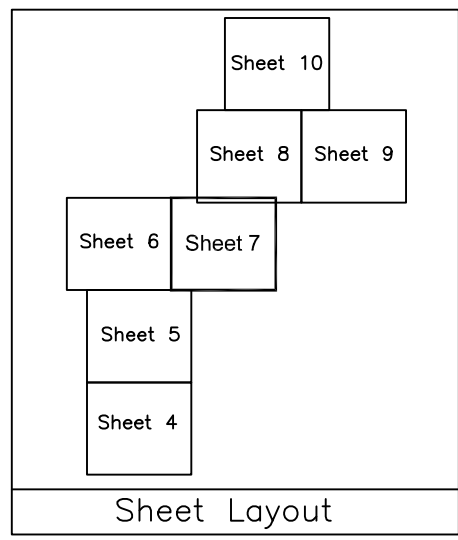
Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	EROSION CONTROL BARRIER
	SPECIAL EXCELSIOR BLANKET
	SURVEY CONTROL POINT





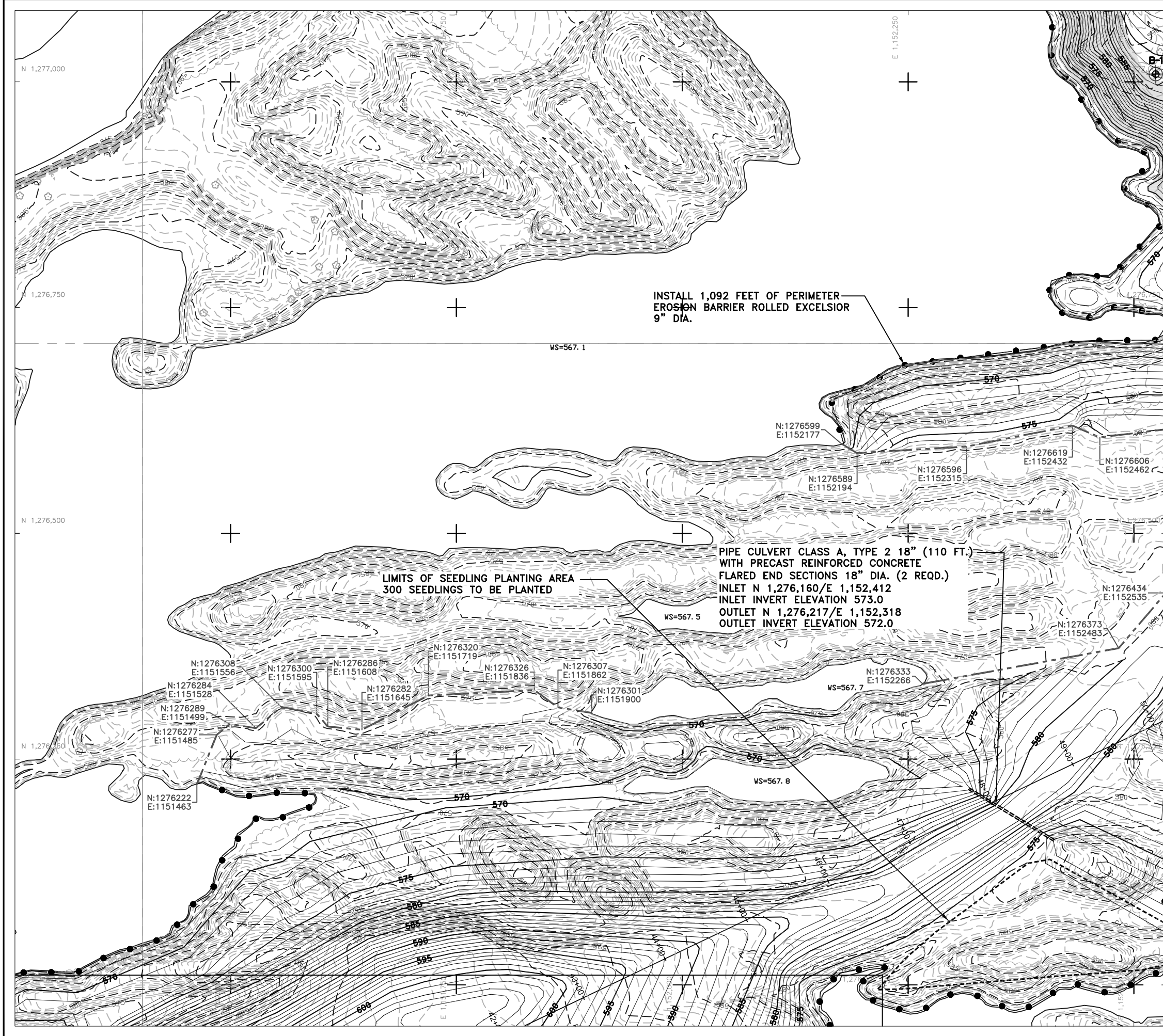
INSTALL 803 FEET OF PERIMETER EROSION BARRIER ROLLED EXCELSIOR 12" DIA.



	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	EROSION CONTROL BARRIER
	SPECIAL EXCELSIOR BLANKET
	SURVEY CONTROL POINT

Kickapoo - Dynegy Lake

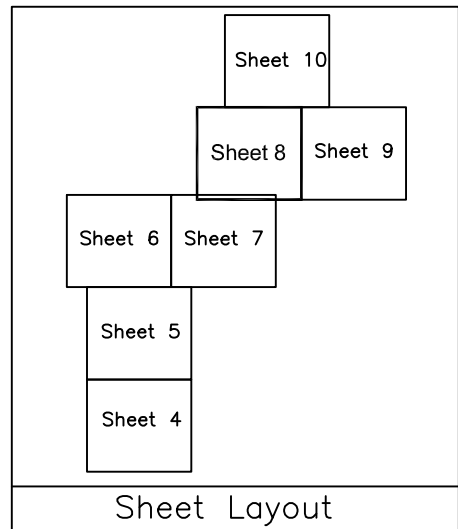
SCALE IN FEET



INSTALL 1,092 FEET OF PERIMETER  
EROSION BARRIER ROLLED EXCELSIOR  
9" DIA.

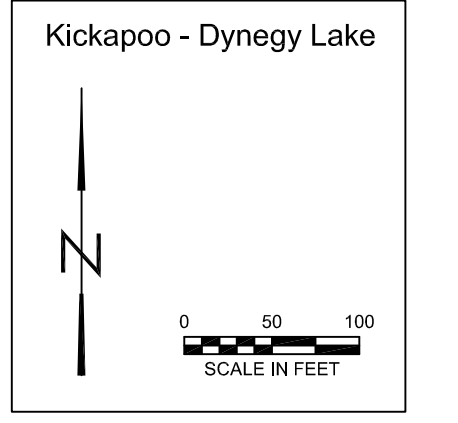
LIMITS OF SEEDLING PLANTING AREA  
300 SEEDLINGS TO BE PLANTED

PIPE CULVERT CLASS A, TYPE 2 18" (110 FT.)  
WITH PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS 18" DIA. (2 REQD.)  
INLET N 1,276,160/E 1,152,412  
INLET INVERT ELEVATION 573.0  
OUTLET N 1,276,217/E 1,152,318  
OUTLET INVERT ELEVATION 572.0

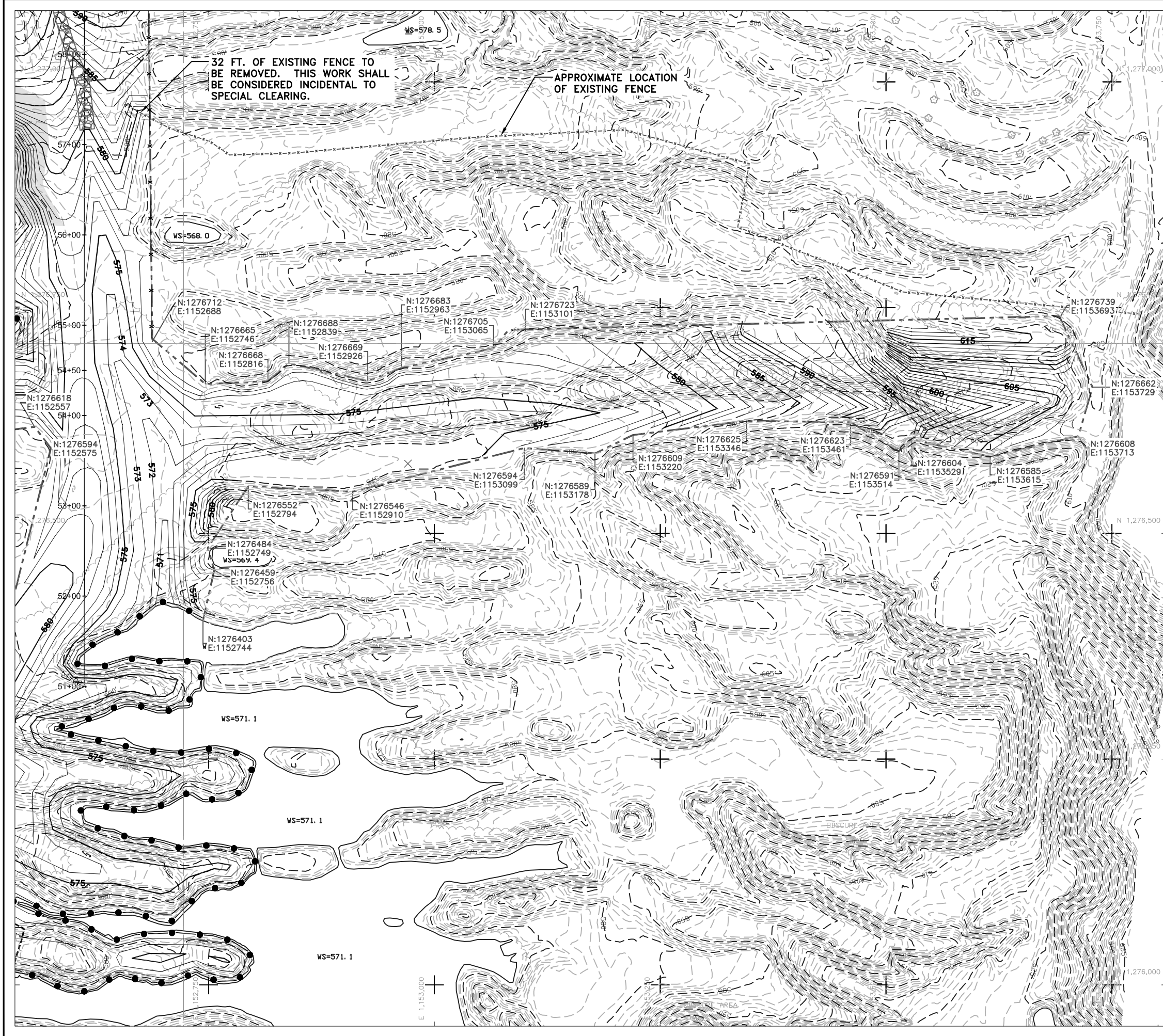


Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	EROSION CONTROL BARRIER
	SPECIAL EXCELSIOR BLANKET
	SURVEY CONTROL POINT
	BORING LOCATION

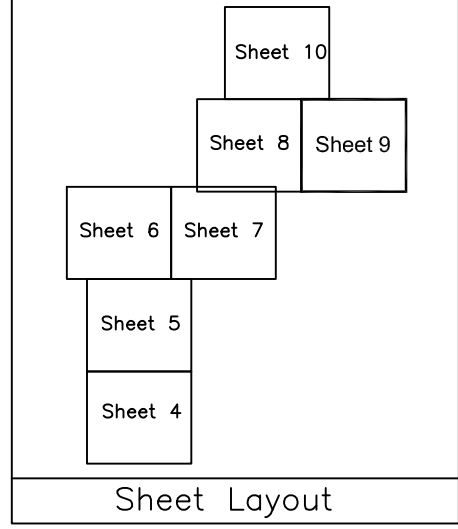




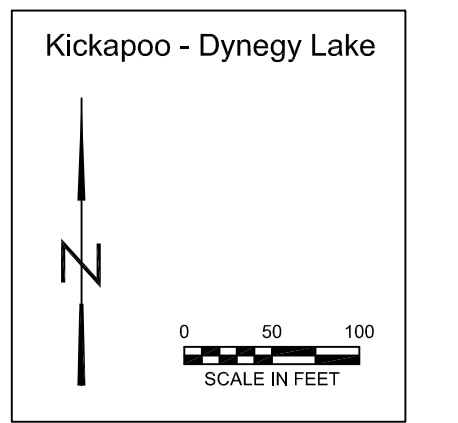


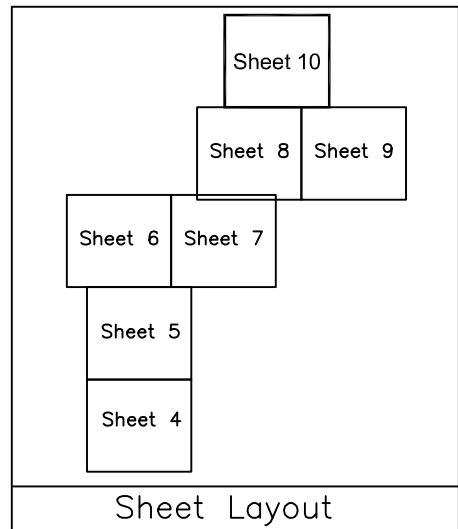
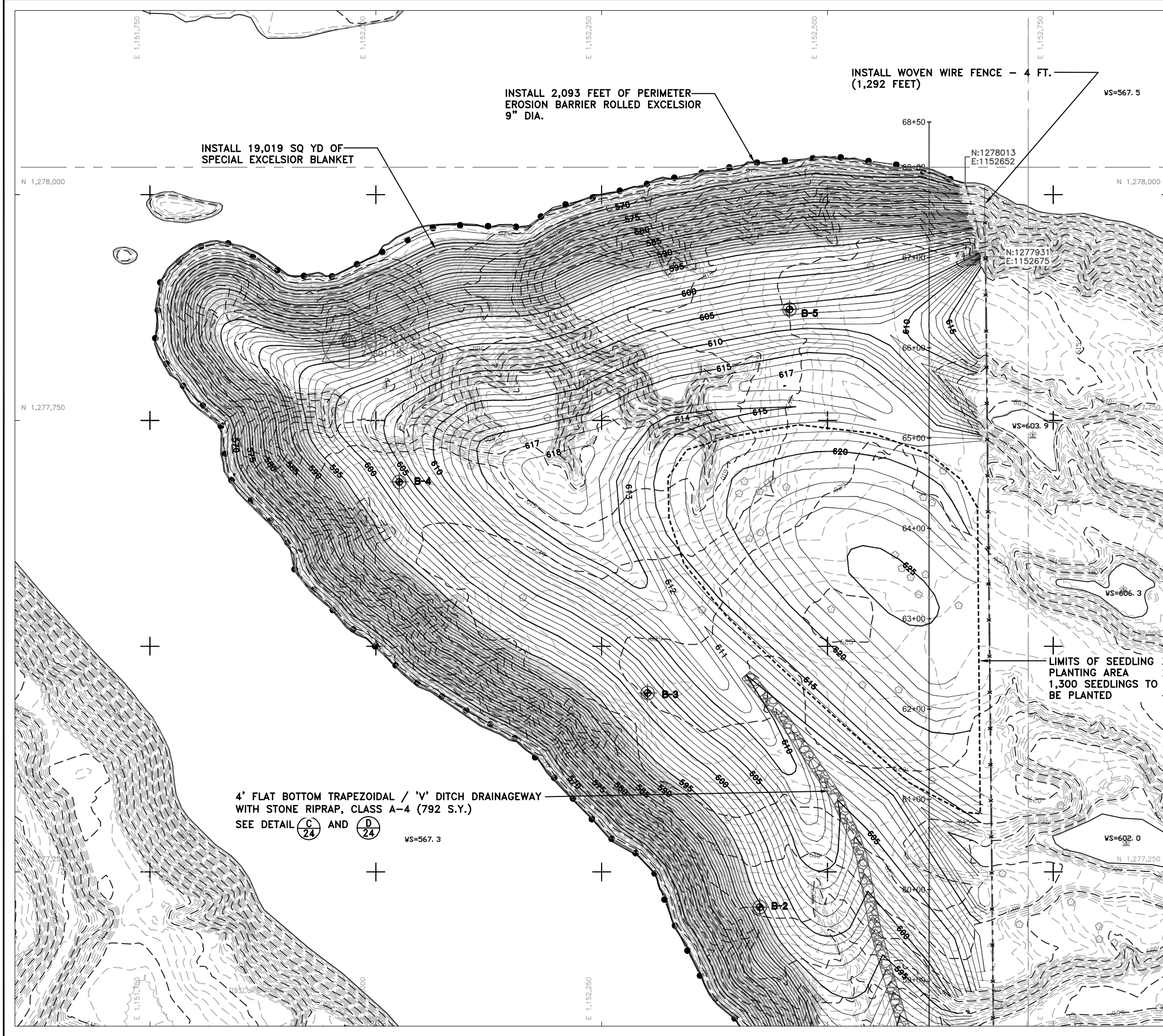
32 FT. OF EXISTING FENCE TO BE REMOVED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SPECIAL CLEARING.

APPROXIMATE LOCATION OF EXISTING FENCE



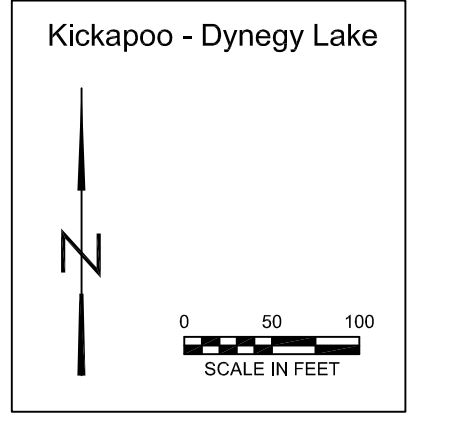
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	EROSION CONTROL BARRIER
	SPECIAL EXCELSIOR BLANKET
	SURVEY CONTROL POINT





Legend

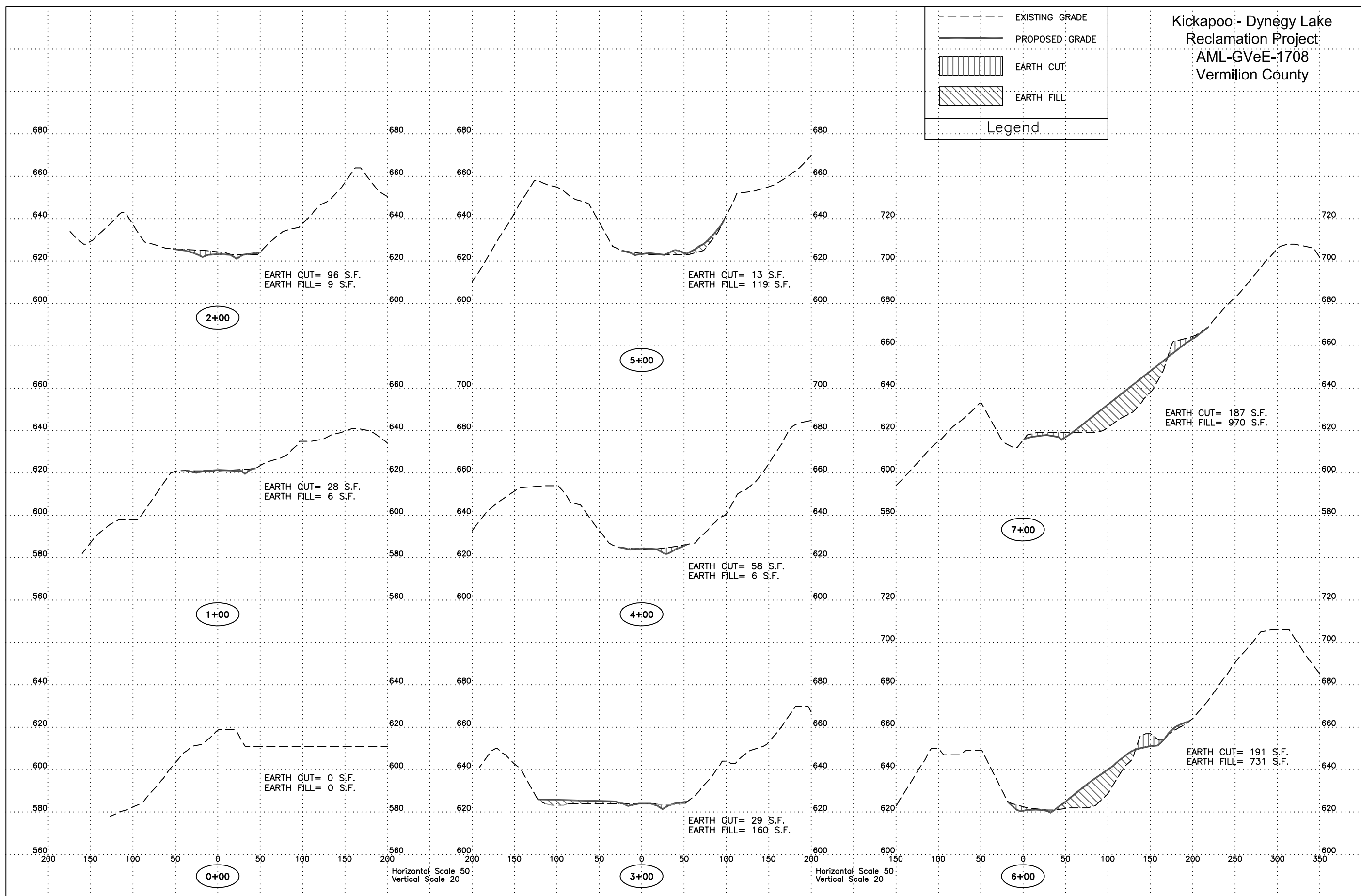
	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	EROSION CONTROL BARRIER
	SPECIAL EXCELSIOR BLANKET
	SURVEY CONTROL POINT
	BORING LOCATION



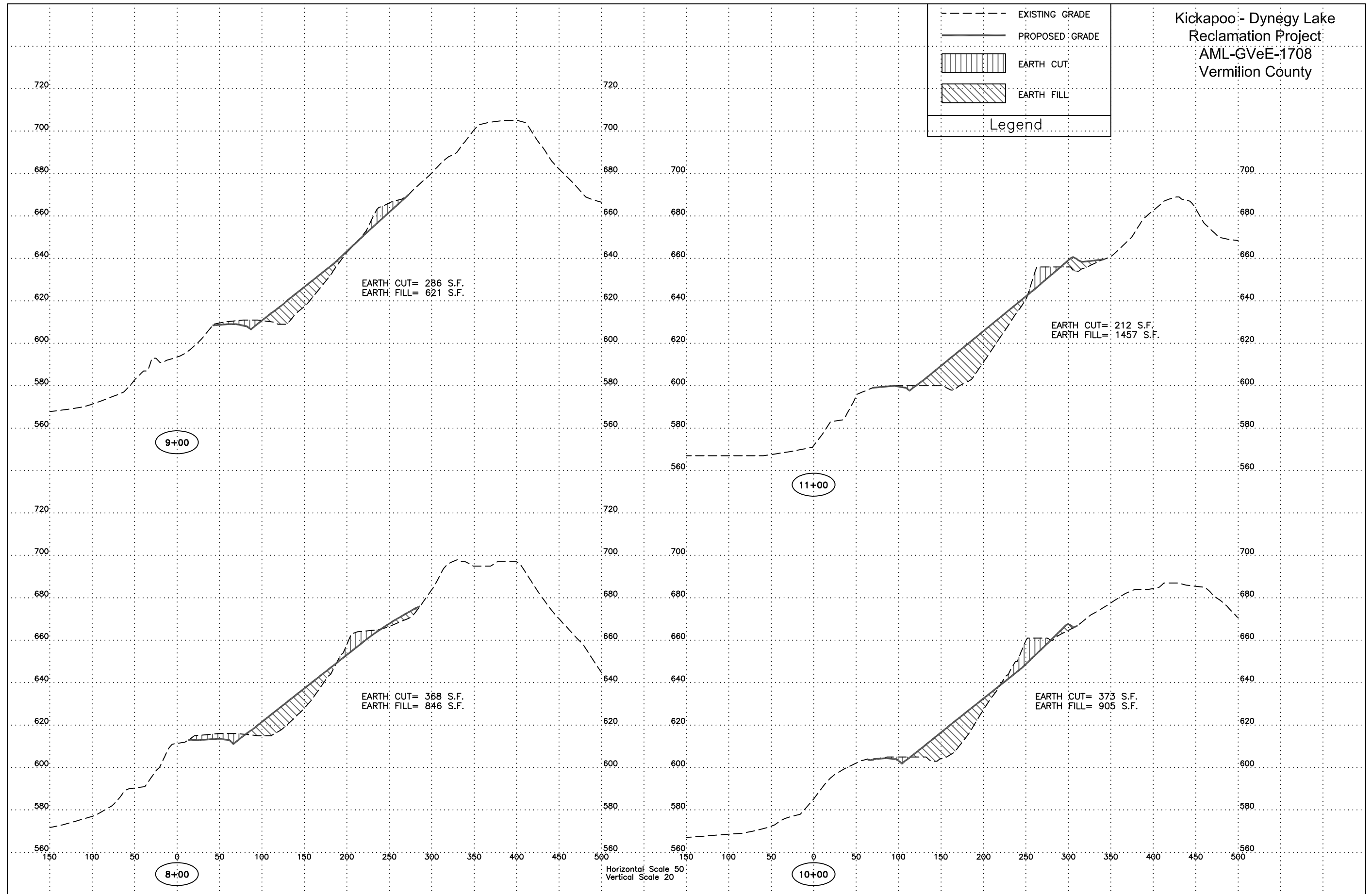
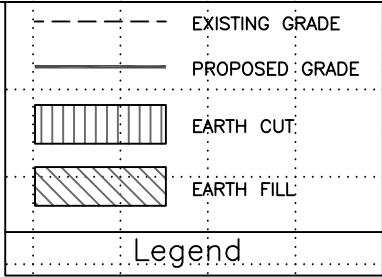
Kickapoo - Dynegy Lake  
Reclamation Project  
AML-GVeE-1708  
Vermilion County

Legend

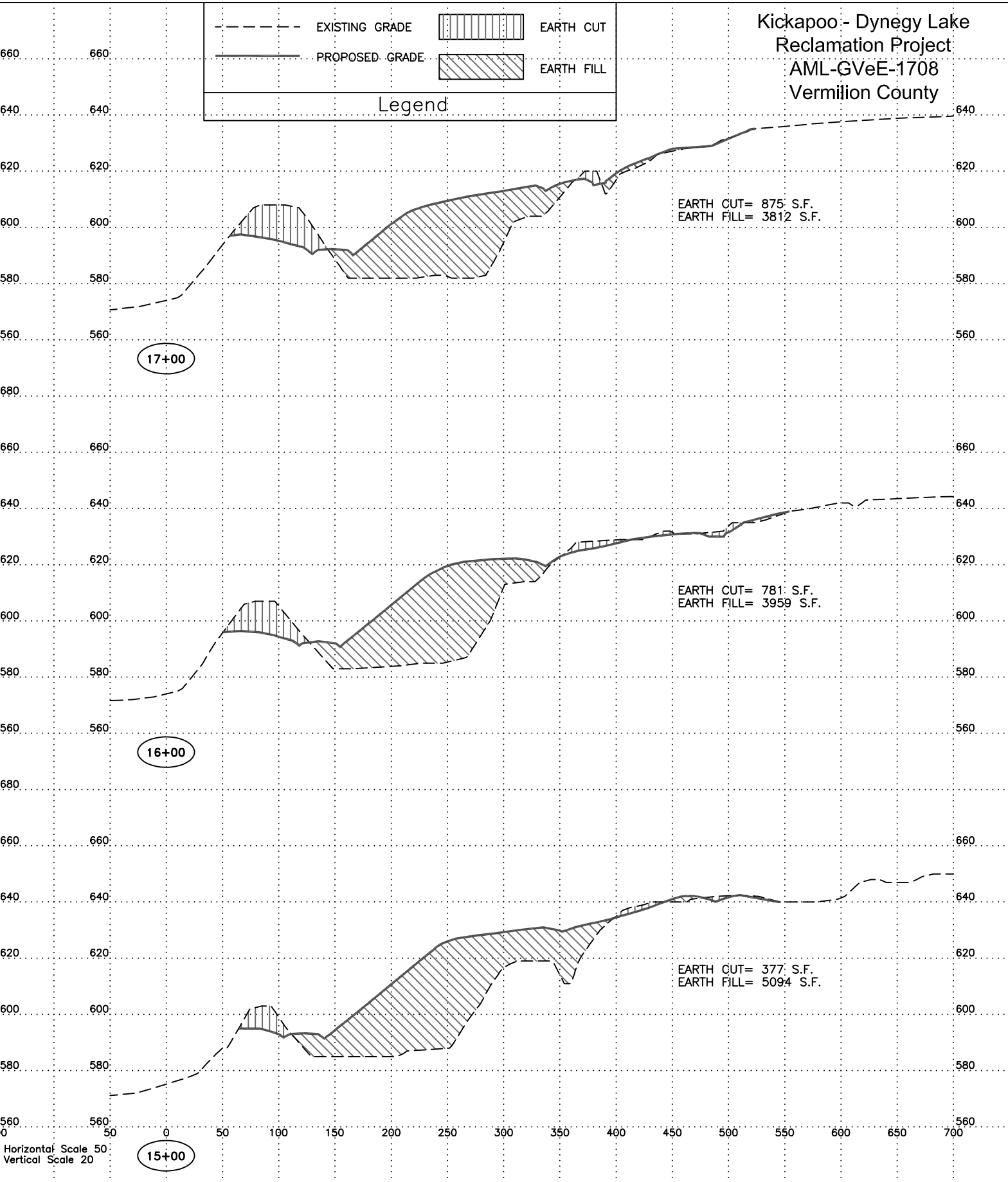
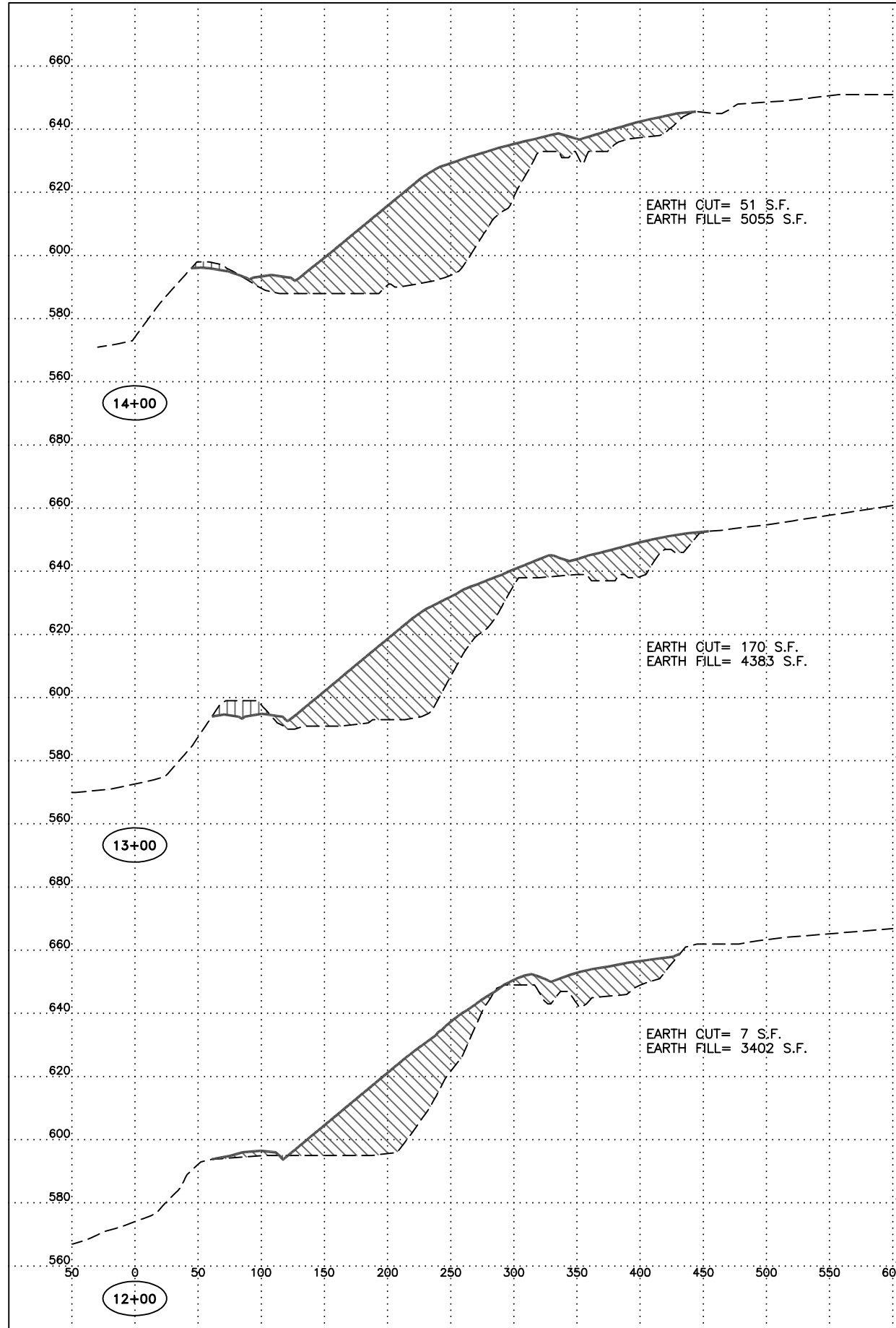
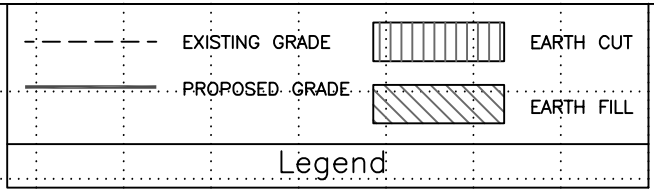
- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT
- ▩ EARTH FILL



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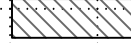
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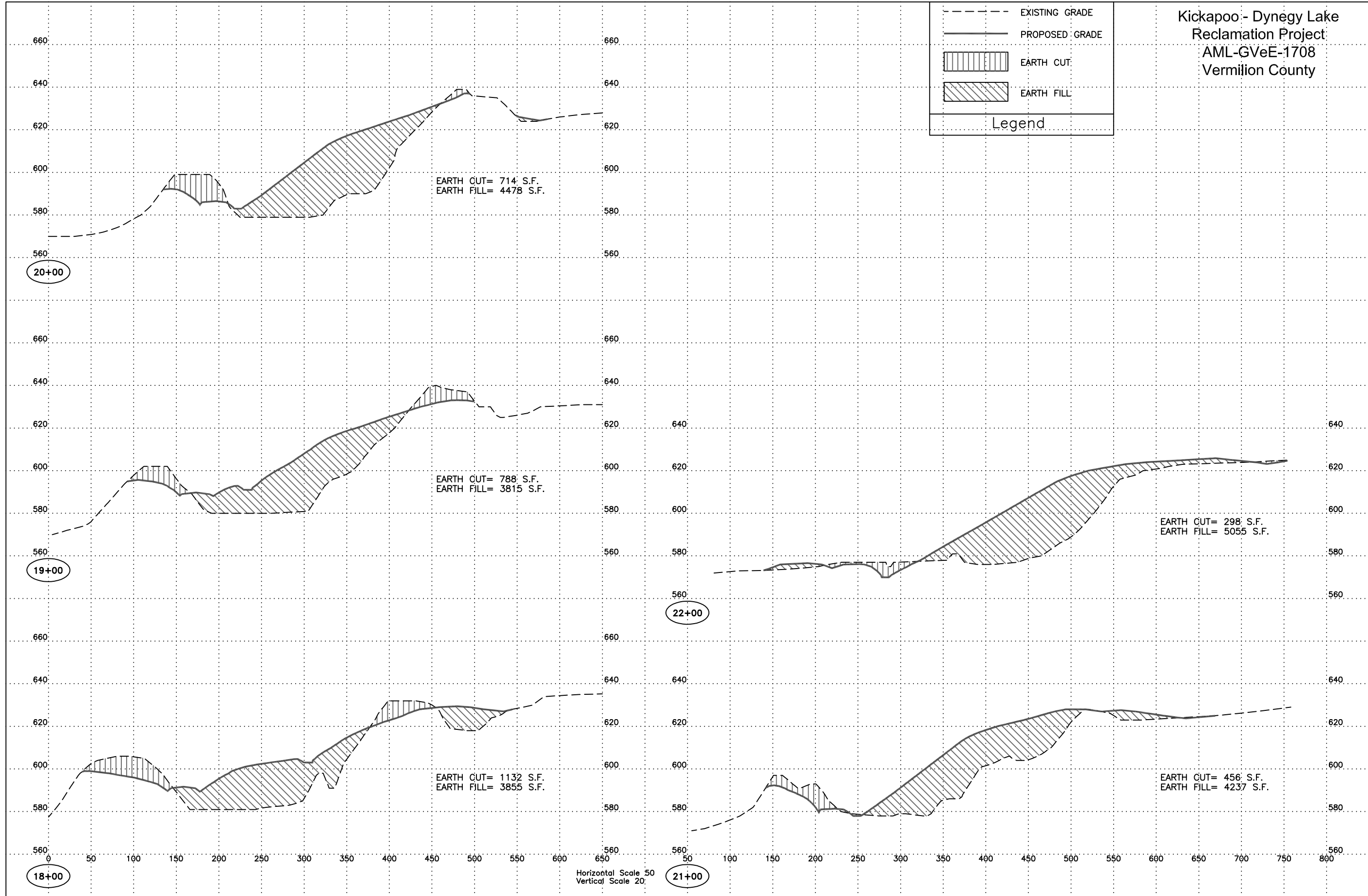


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Vertical Scale 20

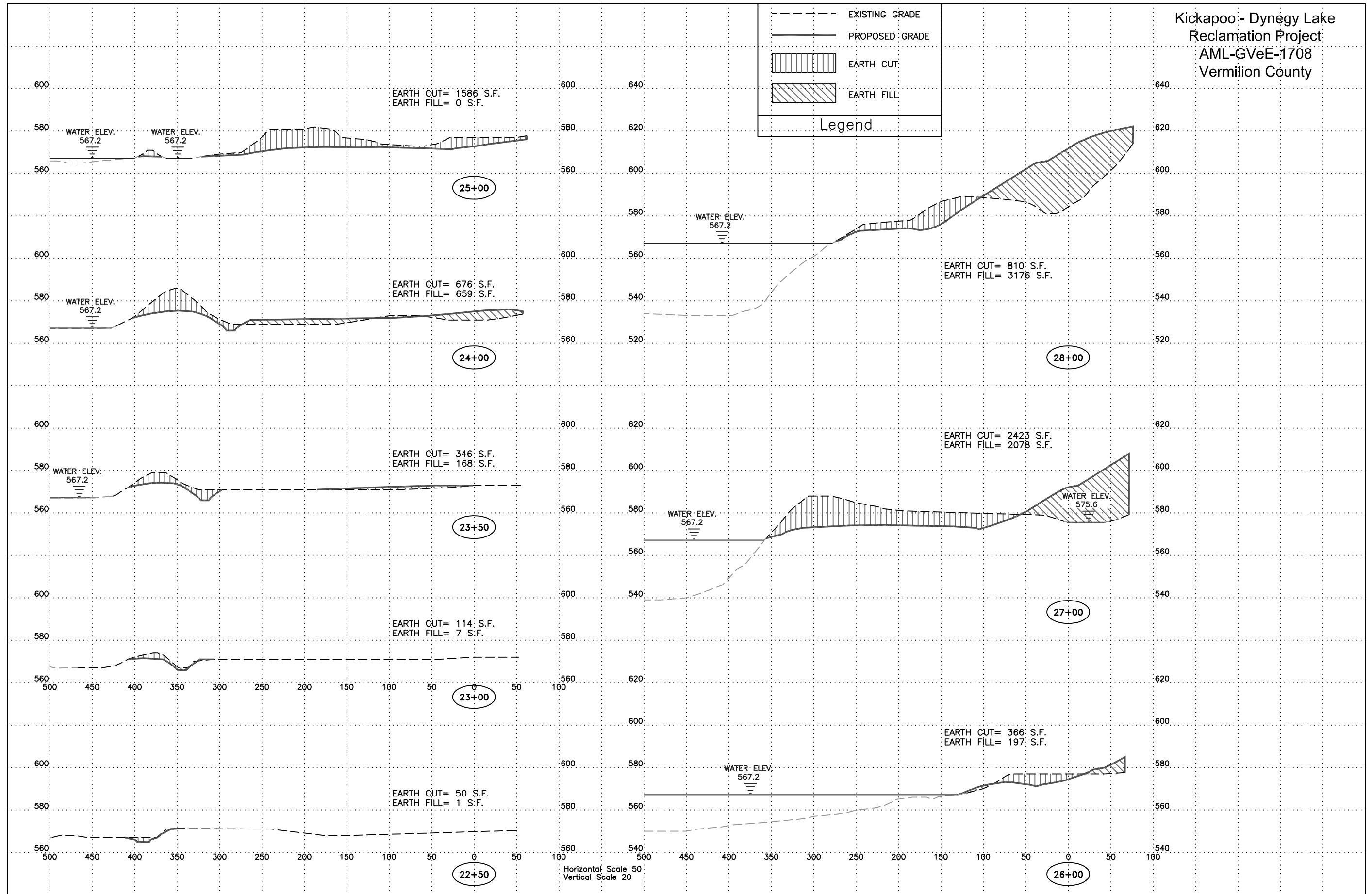
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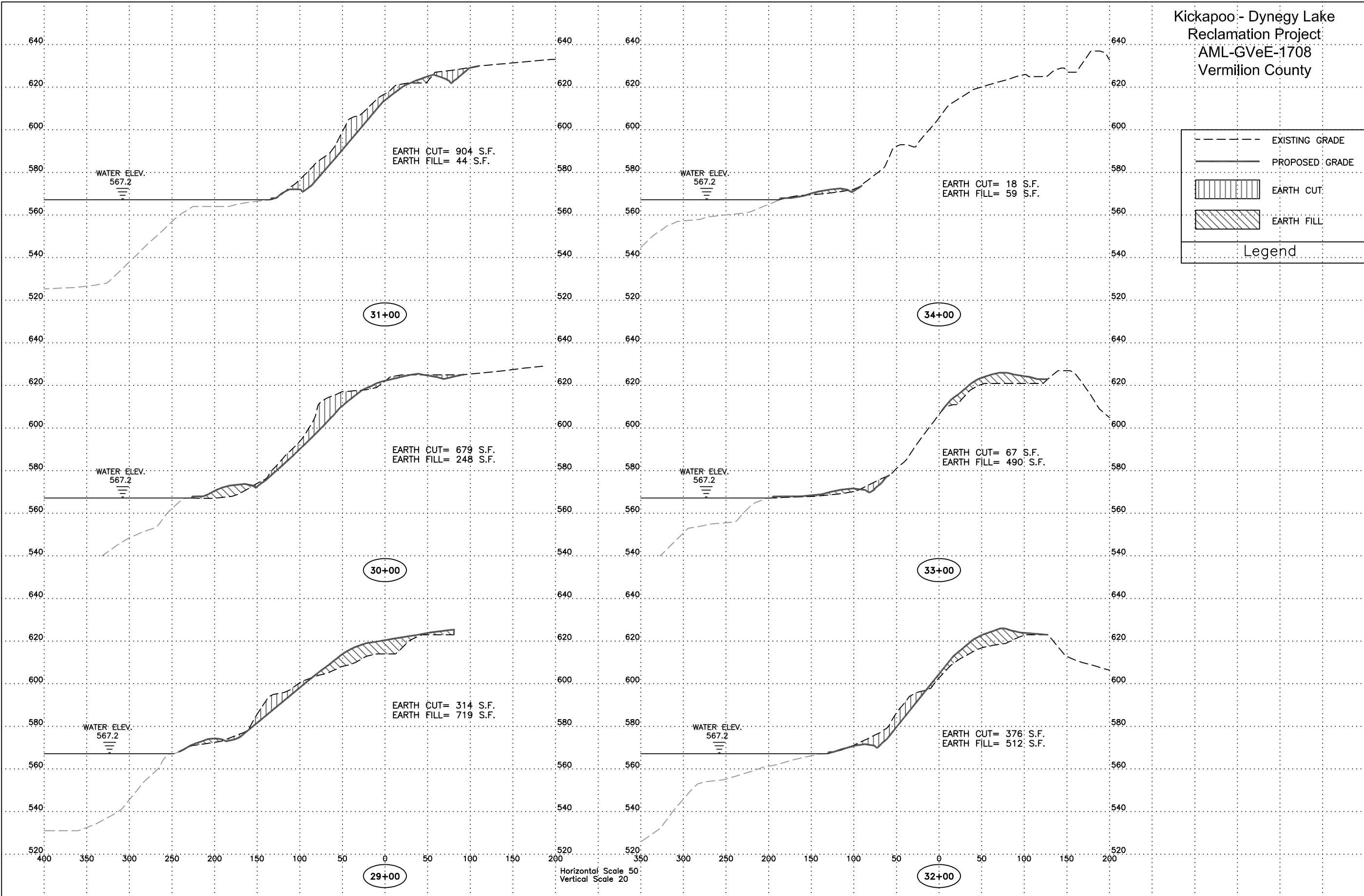
- - - - - EXISTING GRADE
- PROPOSED GRADE
-  EARTH CUT
-  EARTH FILL



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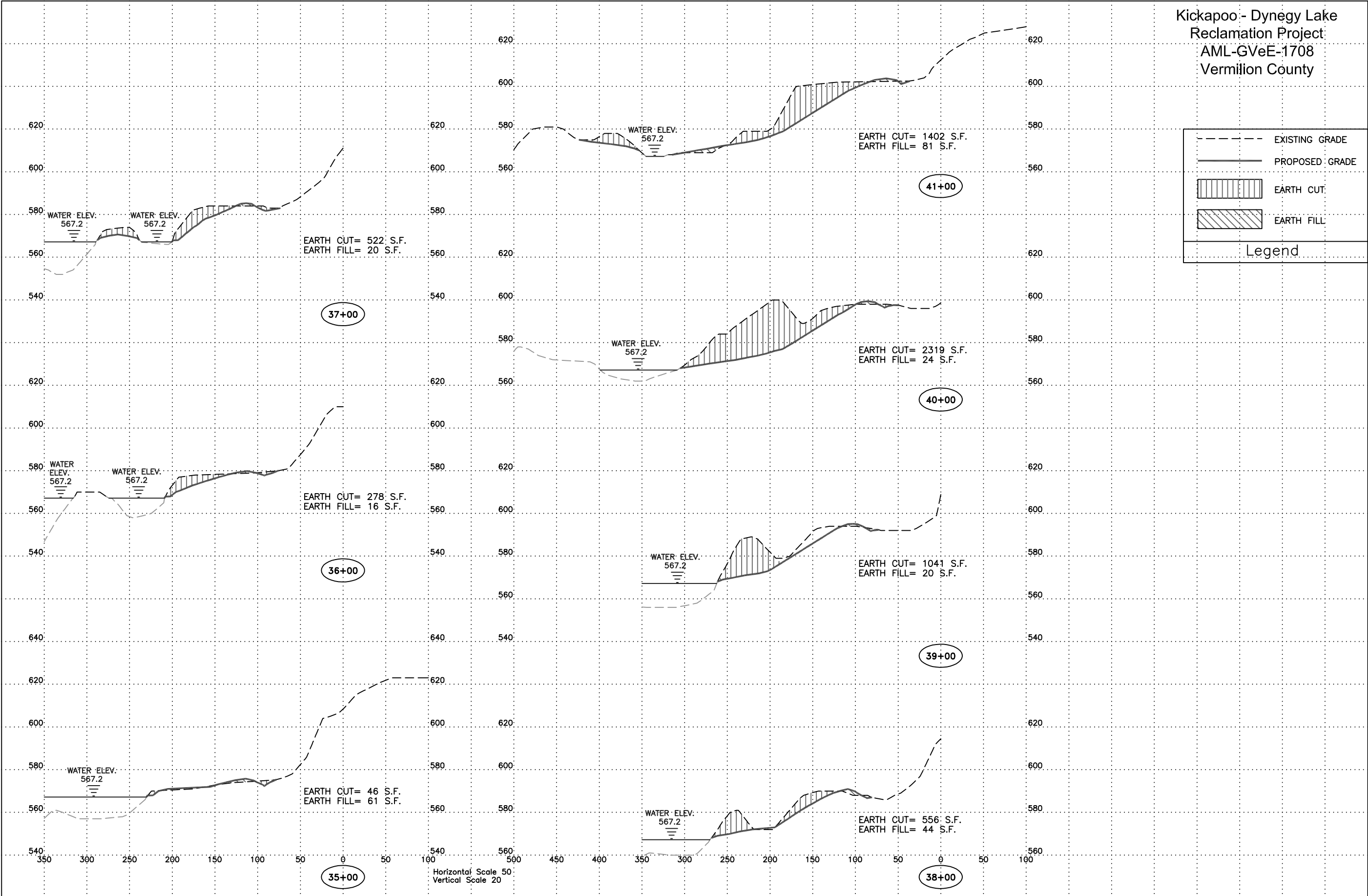


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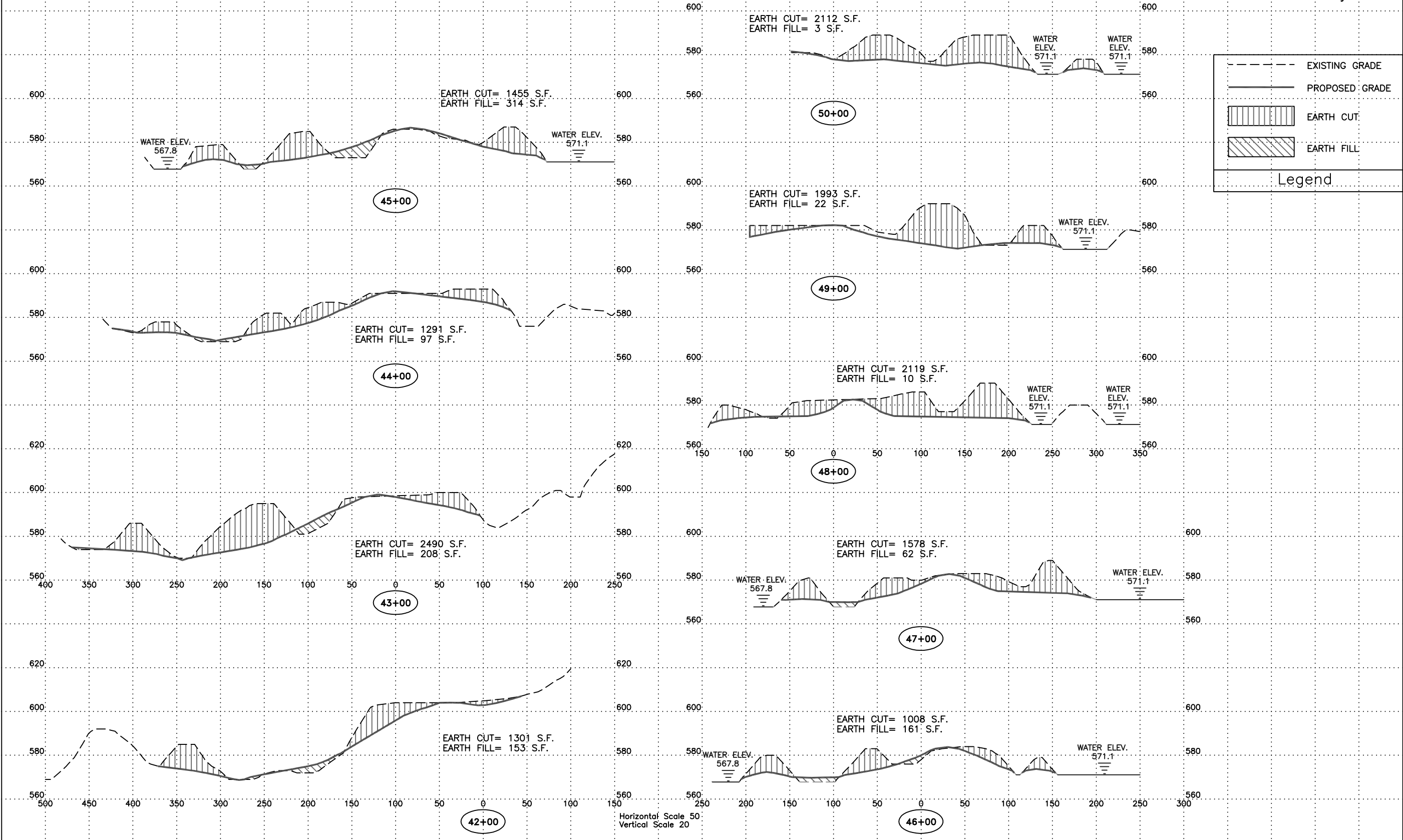




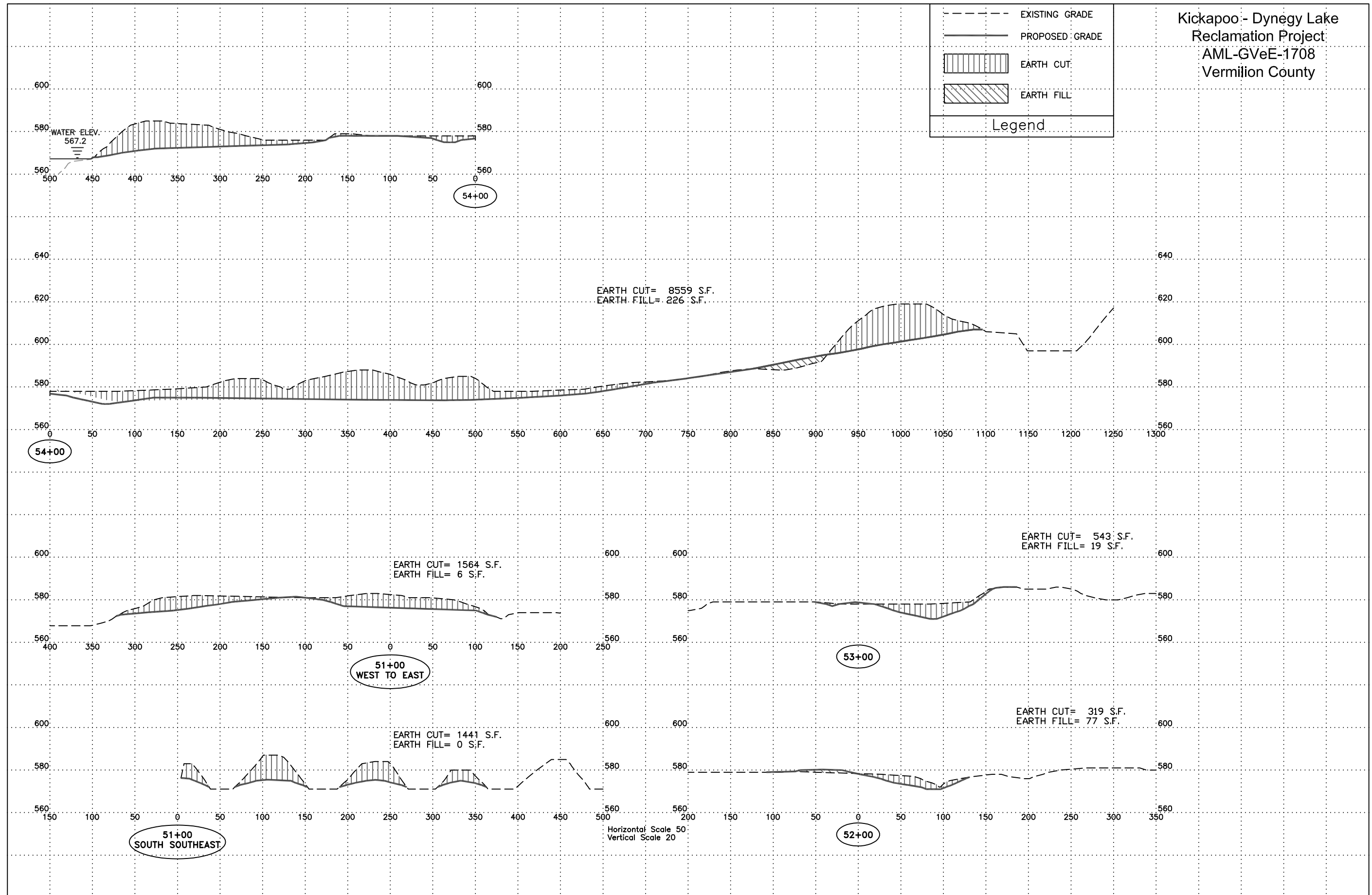
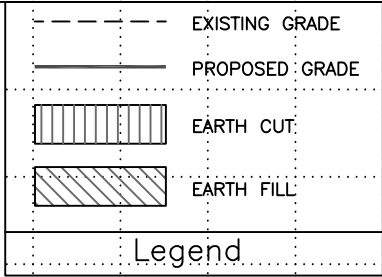
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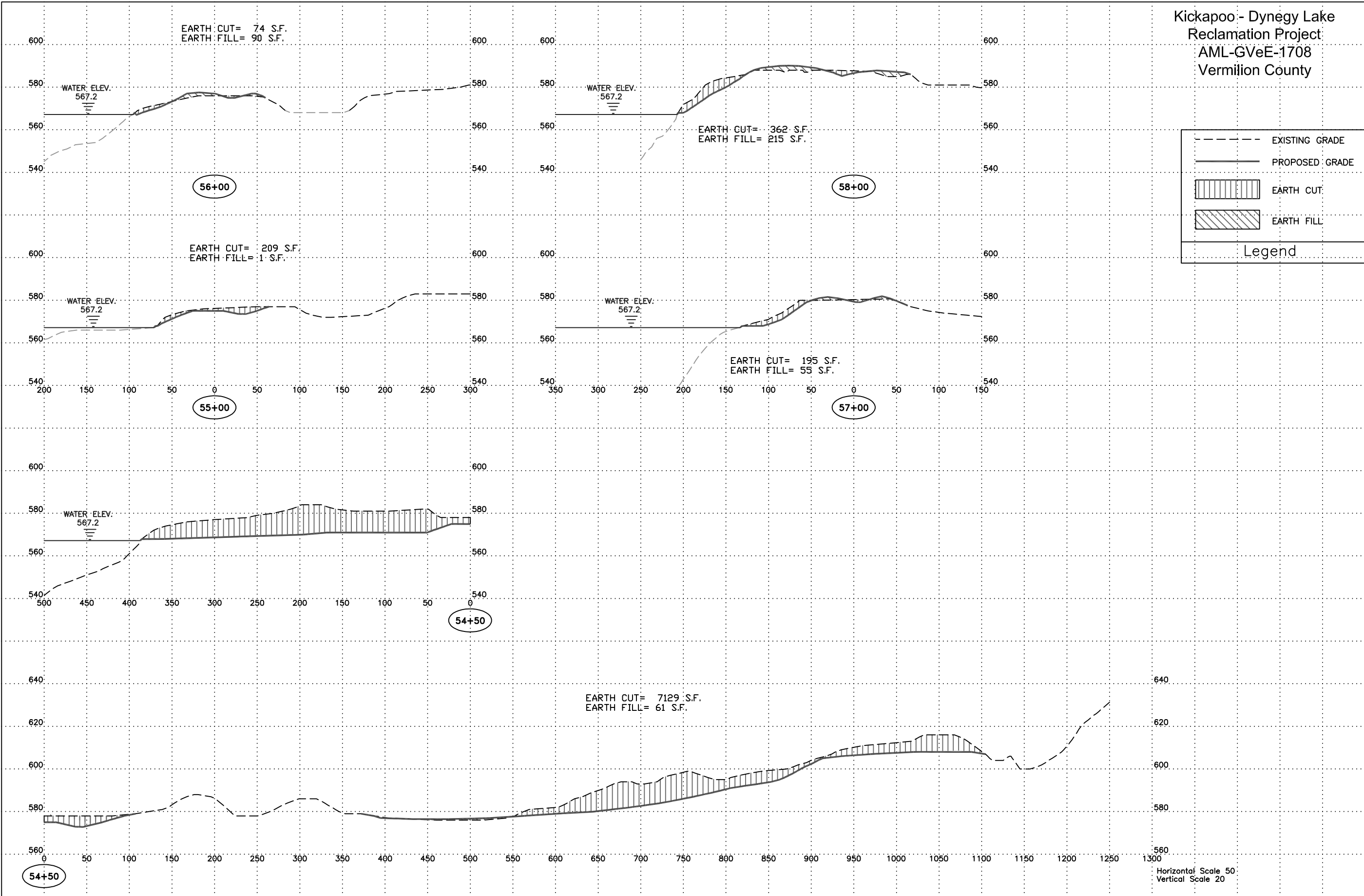
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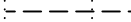

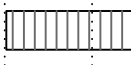
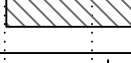


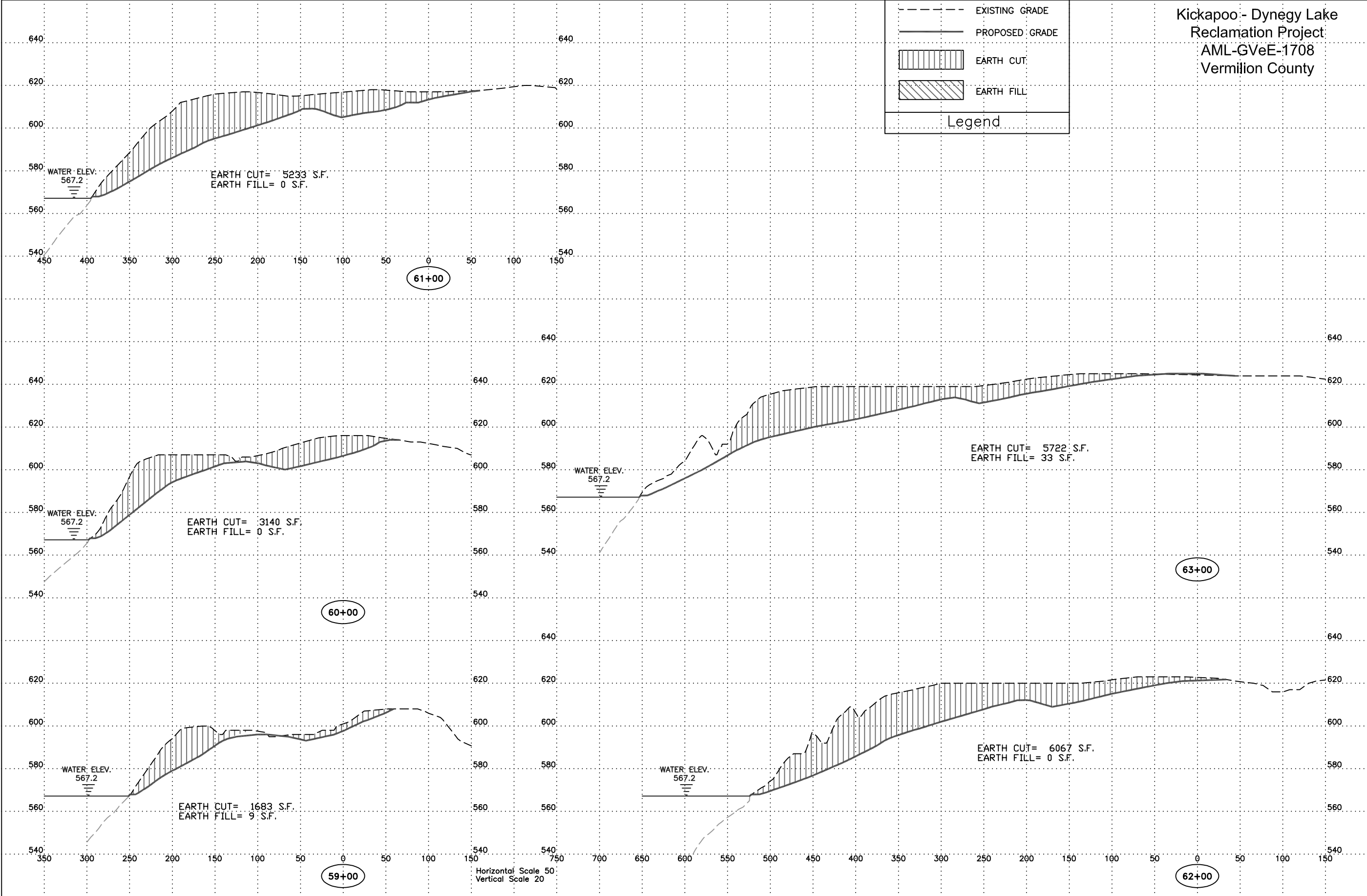
Legend

- EXISTING GRADE
- PROPOSED GRADE
- [Vertical Lines] EARTH CUT
- [Diagonal Lines] EARTH FILL

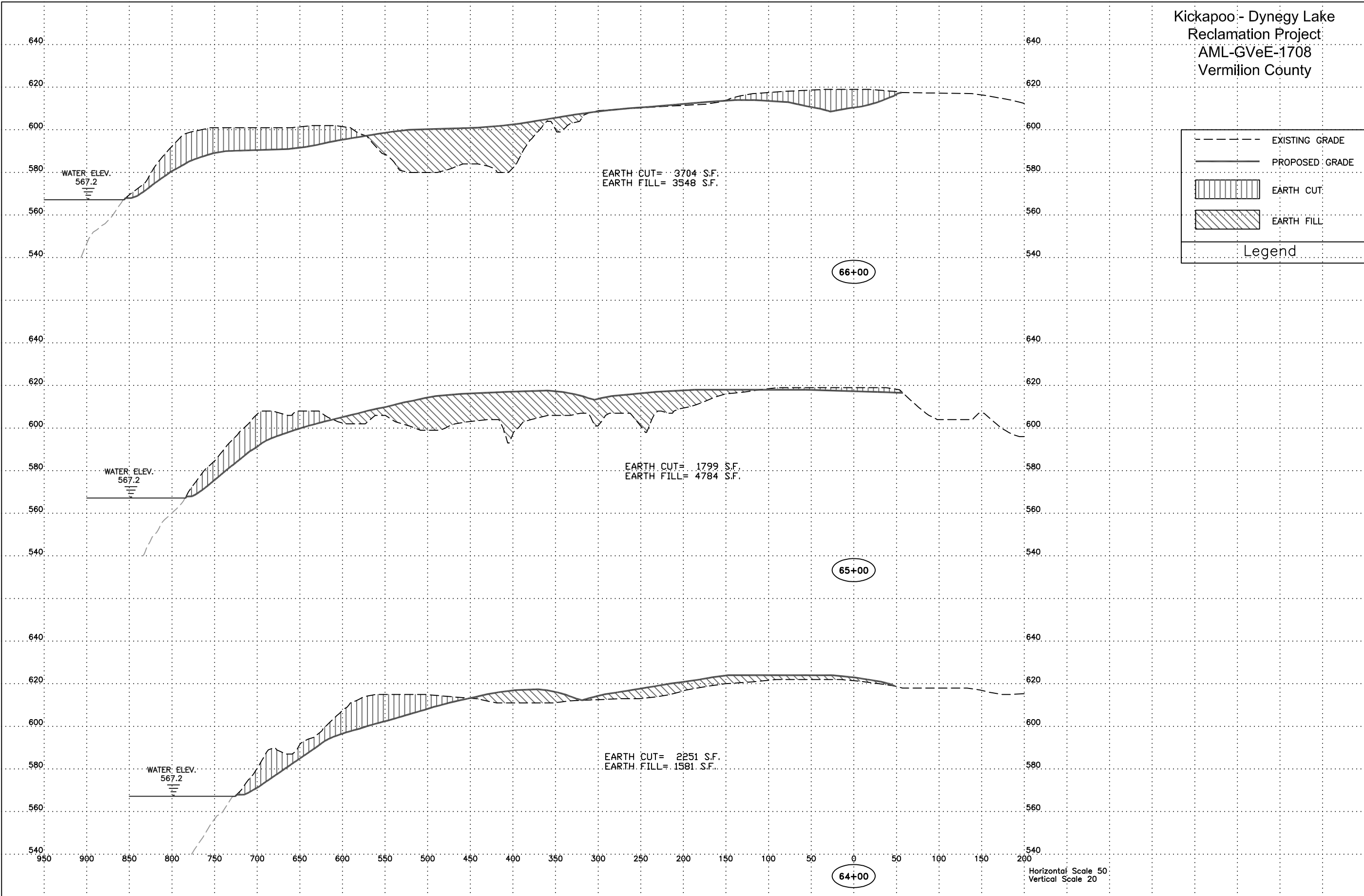
Horizontal Scale 50  
 Vertical Scale 20

Kickapoo - Dynege Lake  
 Reclamation Project  
 AML-GVeE-1708  
 Vermilion County

	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL
Legend	



Kickapoo - Dynege Lake  
 Reclamation Project  
 AML-GVeE-1708  
 Vermilion County

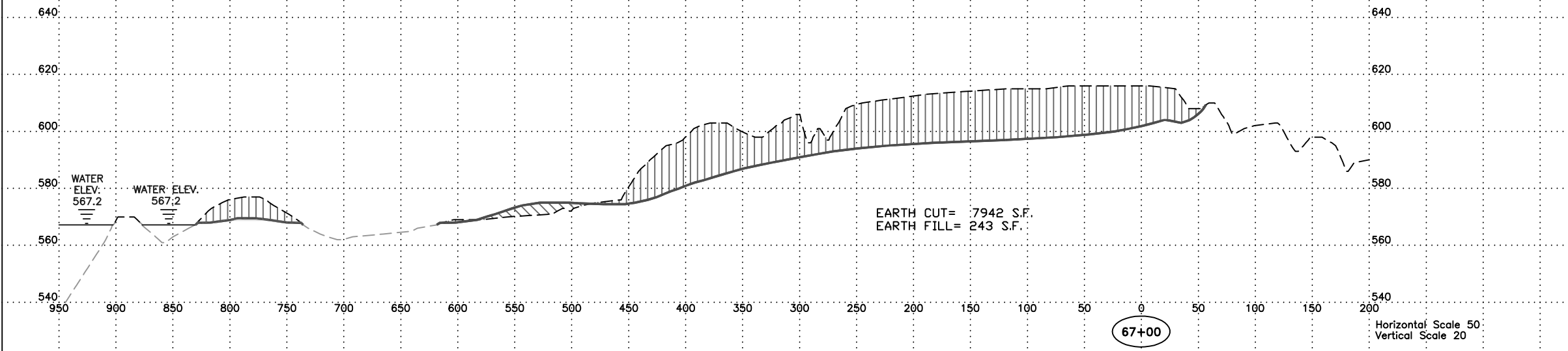
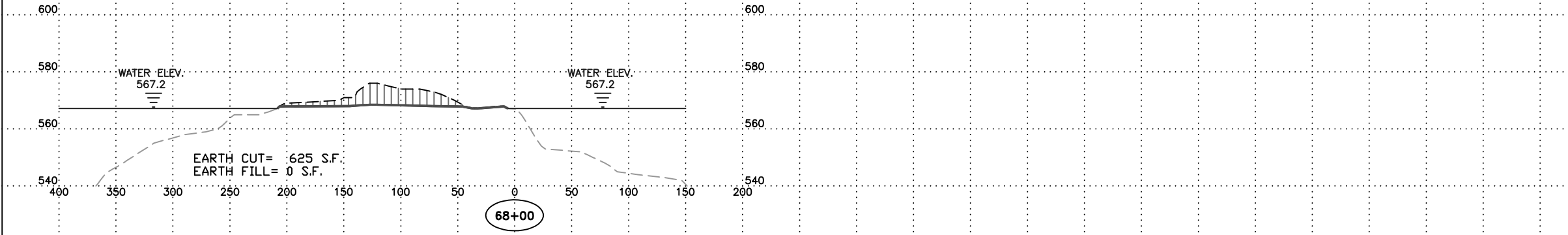
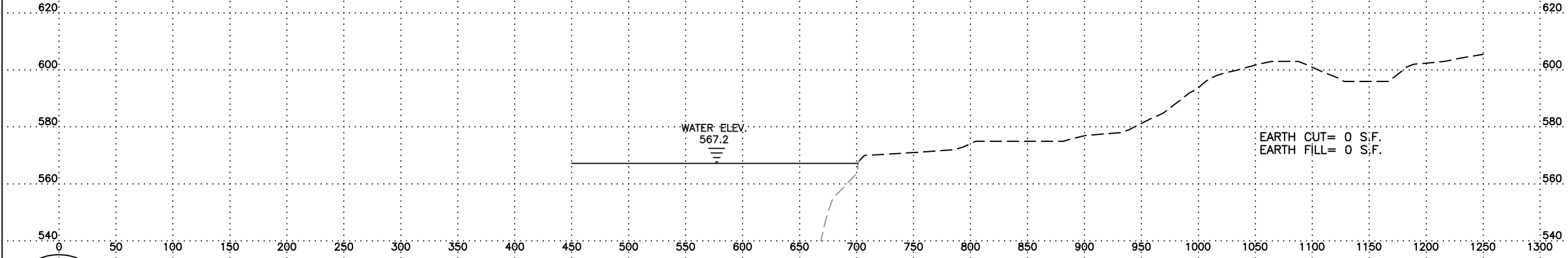
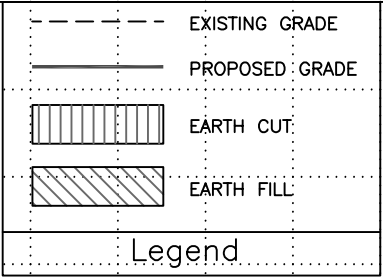


Legend

- EXISTING GRADE
- PROPOSED GRADE
- [Vertical Lines] EARTH CUT
- [Diagonal Hatching] EARTH FILL

Horizontal Scale 50  
 Vertical Scale 20

Kickapoo - Dynege Lake  
 Reclamation Project  
 AML-GVeE-1708  
 Vermilion County



Horizontal Scale 50  
 Vertical Scale 20

