

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

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

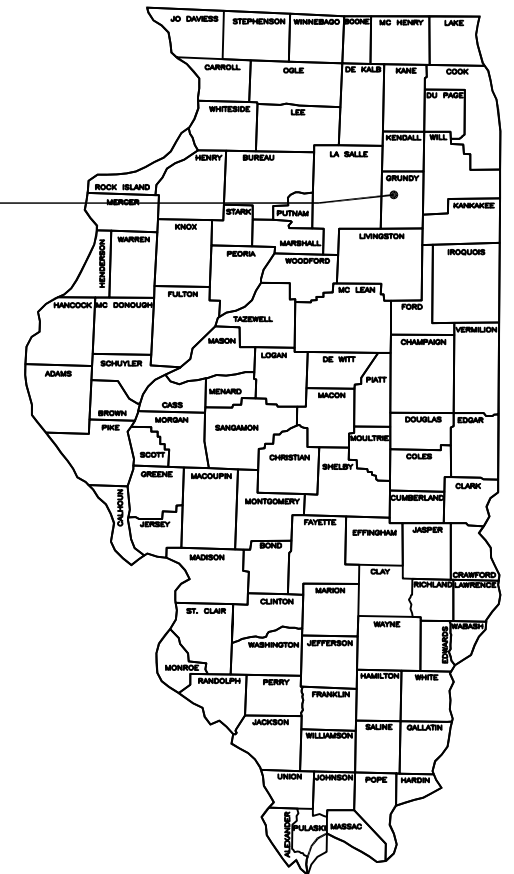
Bungalow Road
Reclamation Project
AML-GGdE-1503
Grundy County
2LR

SCHEDULE OF DRAWINGS:

- 1. Cover Sheet
 - 2. Summary of Quantities/General Notes/Location Map
 - 3-6. Existing and Proposed Conditions
 - 7-24. Cross-Sections
- IDOT Standards
701006-05 - Off-Rd Operations, 2L, 2W, 15' to 24" From Pavement Edge
701011-04 - Off-Rd Moving Operations, 2L, 2W, Day Only
701501-06 - Urban Lane Closure 2L, 2W, Undivided
701901-04 - Traffic Control Devices

Contract No. M1503

Bungalow Road
Grundy County



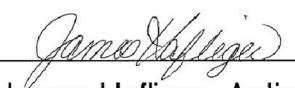
Pre-Bid Meeting:

A pre-bid meeting for this project is scheduled for Thursday, October 29, 2015 at 10:00 AM, at the City Hall in Morris, Illinois at the intersection of Illinois Route 47 and Chapin Street.


Certified Copy

Prepared By IDNR Staff

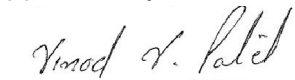
Approved for Bidding:


James Haflinger, Acting Director
Office of Mines and Minerals

Approved By:


Greg Pinto, Acting Manager
AMLR Division

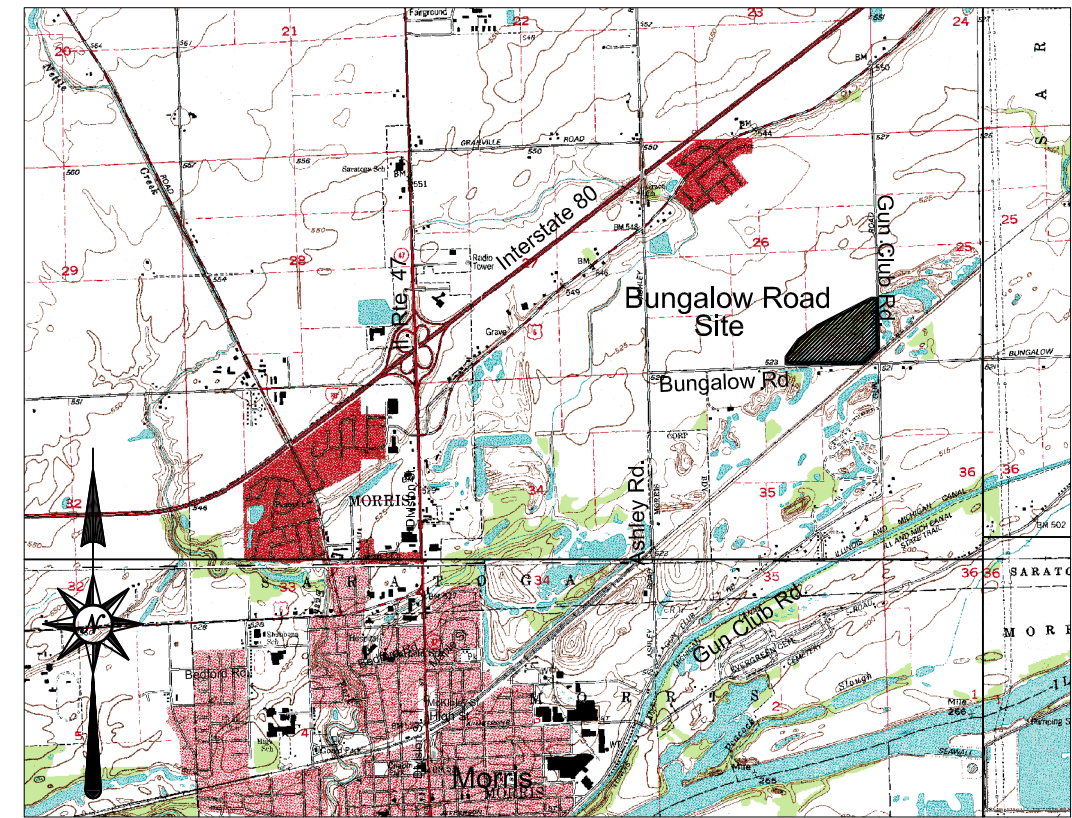
Approved By:


Vinodchandra V. Patel
IL Licensed Professional Engineer
No. 062.046043



Summary of Quantities

Item No.	#	Item	Section	Quantities	Unit	Rates/Remarks
NRM20110	1	Special Clearing	201	1	L SUM	
NRM20210	2	Earth Excavation	202	156,593	CU YD	
NRM25040	3	Nitrogen Fertilizer Nutrient	250	6,360	POUND	See schedule this sheet
NRM25050	4	Phosphorous Fertilizer Nutrient	250	5,300	POUND	See schedule this sheet
NRM25060	5	Potassium Fertilizer Nutrient	250	13,250	POUND	See schedule this sheet
NRM25070	6	Agricultural Ground Limestone	250	132.5	TON	See schedule this sheet
NRM25090	7	Seeding	250	26.5	ACRE	See schedule this sheet
25100115	8	Mulch, Method 2, Procedure 1	IDOT 251	26.5	ACRE	See schedule this sheet
NRM25620	9	Incorporation - Mulch	256	26.5	ACRE	
NRM25810	10	Mowing	258	26.5	ACRE	
NRM28020	11	Earth Excavation for Erosion Control	280	300	CU YD	
NRM28021	12	Aggregate (Erosion Control)	280	16	TON	Stone Riprap A3
NRM28040	13	Perimeter Erosion Barrier	280	5,463	FOOT	Silt fence
28200200	14	Filter Fabric	IDOT 282	298	SQ YD	
40200800	15	Aggregate Surface Course, Type B	IDOT 402	92.4	TON	CA-1
NRM50101	16	Removal of Existing Structure	501	1	L SUM	
542D0241	17	Pipe Culverts, Class D, Type 1 36"	IDOT 542	30	FOOT	
542D1081	18	Pipe Culverts, Class D, Type 2 36"	IDOT 542	50	FOOT	CA-6 aggregate fill to surface of pavement required
NRM61410	19	Dewatering Impoundment	614	1	L SUM	
NRM67110	20	Mobilization (Max. 6% of Bid)	671	1	L SUM	
70102620	21	Traffic Control and Protection Standard 701501	701	1	L SUM	



Location Map - Bungalow Road Mine

SPECIAL NOTE: IMPOUNDMENT TO BE DEWATERED IN PHASES PER SPECIAL PROVISION 614 AS NECESSARY TO ENSURE THE STABILITY OF THE ROADWAY EMBANKMENTS AND TO THE EXTENT REQUIRED TO FACILITATE EARTH EXCAVATION.

DEWATERING SHALL BE COORDINATED WITH AND SHALL BE AT RATES AND TIMES APPROVED BY THE DIRECTOR OF PUBLIC WORKS FOR THE CITY OF MORRIS, JIM GRETTECORD, PHONE NUMBER 815-942-5063.

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. All tree removal shall be completed before April 1, 2016.

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.

Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

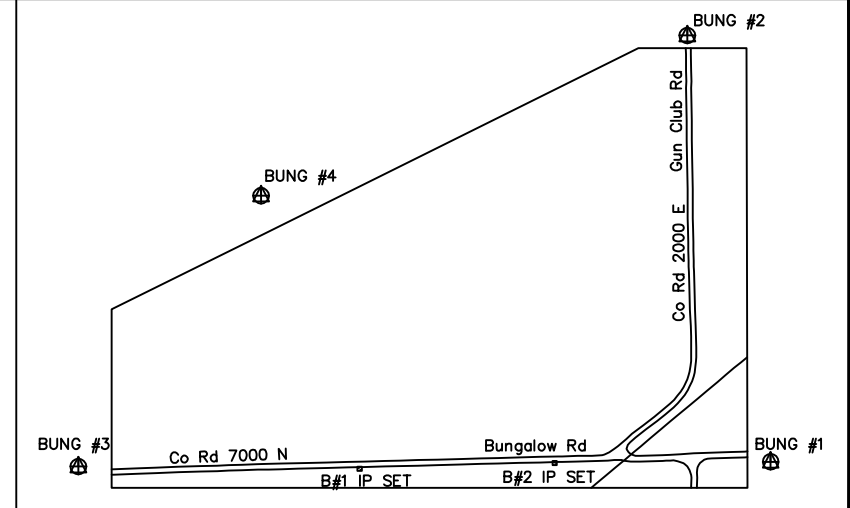
ITEM (unit)	August 1 2016 - Sept 1 2016	April 15 2017- May 15 2017	May 1 2017- June 1 2017	TOTAL QUANTITY
SEEDING (acres)	26.5			26.5 Acres
AGRICULTURAL GROUND LIMESTONE (tons)	132.5 5 tons/acre			132.5 Tons
NITROGEN FERTILIZER NUTRIENT (pounds)	3180 120 lb/acre		3180 120 lb/acre	6360 Pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	2650 100 lb/acre		2650 100 lb/acre	5300 pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)	6625 250 lb/acre		6625 250 lb/acre	13250 Pounds
MULCH, METHOD 2 PROCEDURE 1 (tons)	26.5 2 ton/acre			26.5 Acres
MOWING (acres)		26.5		26.5 Acres

State of Illinois
Department of Natural Resources

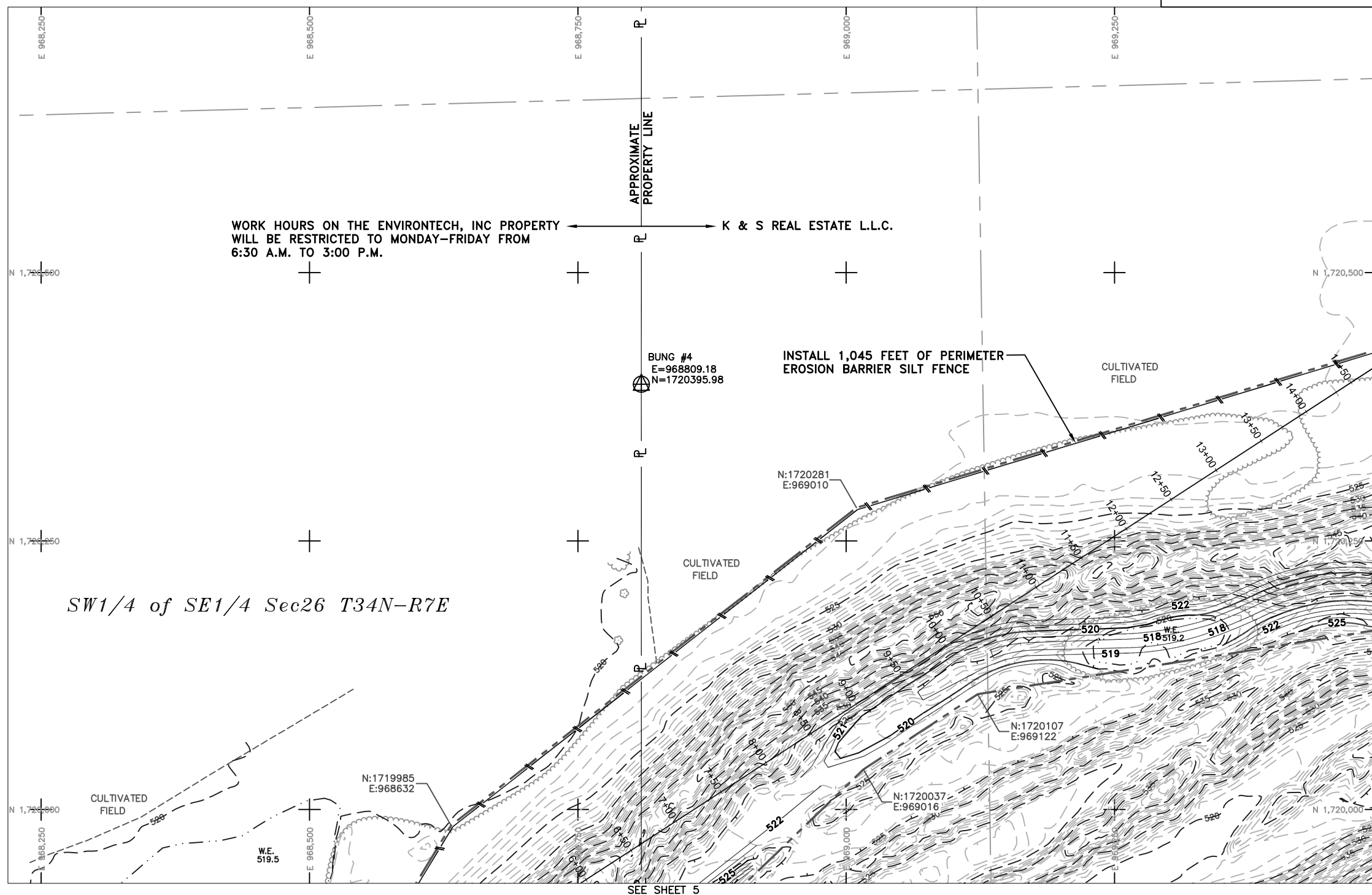
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Checked By: _____

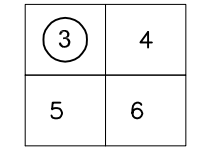
Summary of Quantities/
General Notes/Location Map
Sheet
2 of 24



Traverse Layout Data

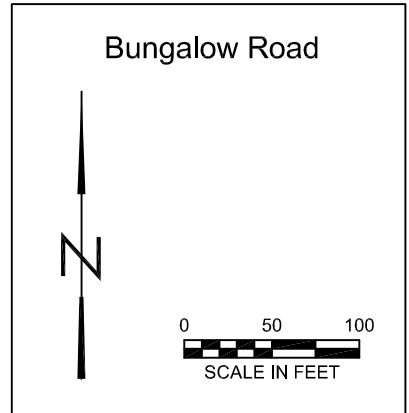


SEE SHEET 4



Sheet Layout

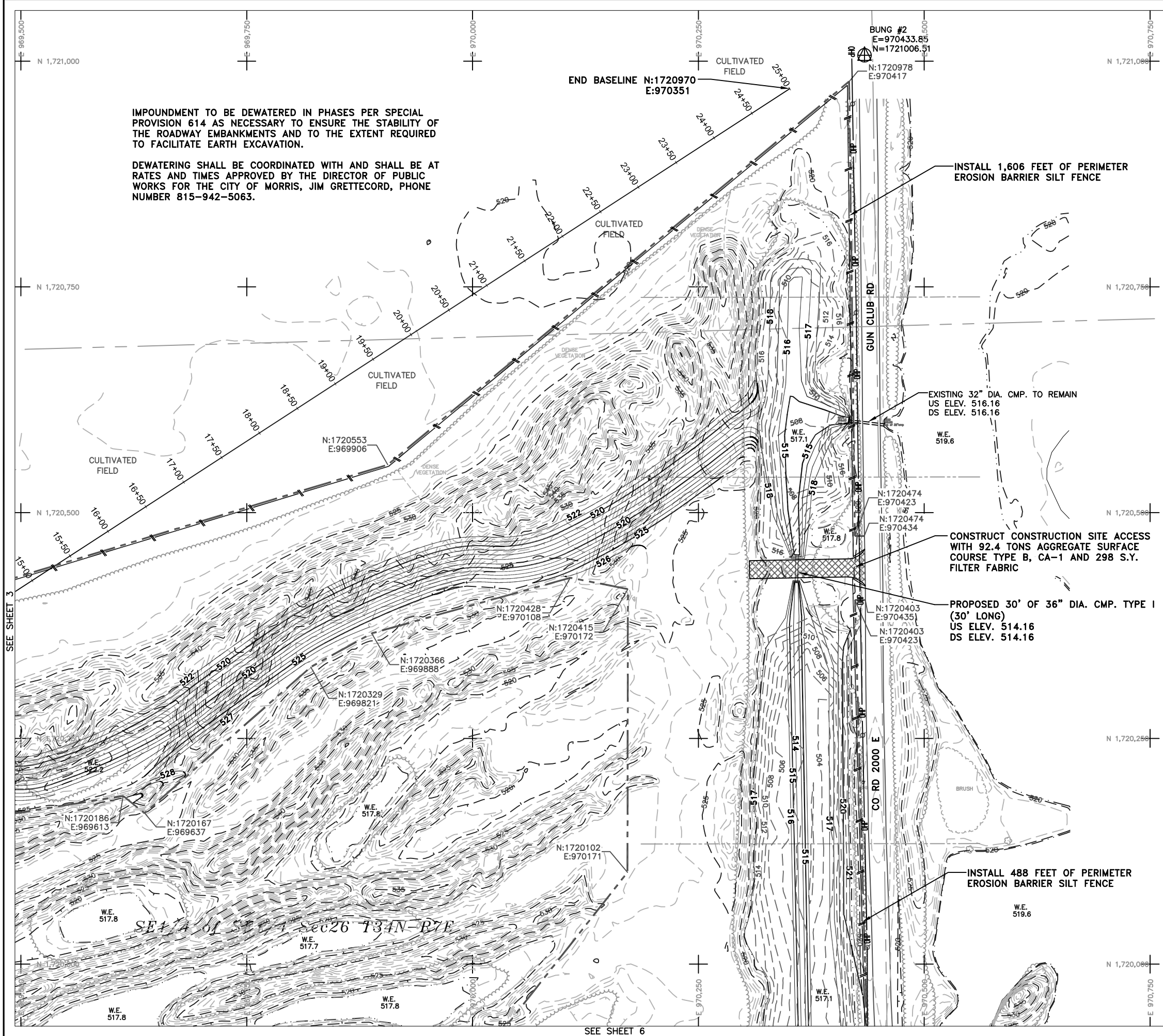
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 - 400 — PROPOSED CONTOUR
 - - - - - CONSTRUCTION LIMITS
 - — — — — EDGE OF ROAD
 - ~~~~~ TREELINE
 - - - - - EDGE OF WATER
 - OP — OVERHEAD POWER
 - ⊕ SURVEY CONTROL POINT



SEE SHEET 5

IMPONDMENT TO BE DEWATERED IN PHASES PER SPECIAL PROVISION 614 AS NECESSARY TO ENSURE THE STABILITY OF THE ROADWAY EMBANKMENTS AND TO THE EXTENT REQUIRED TO FACILITATE EARTH EXCAVATION.

DEWATERING SHALL BE COORDINATED WITH AND SHALL BE AT RATES AND TIMES APPROVED BY THE DIRECTOR OF PUBLIC WORKS FOR THE CITY OF MORRIS, JIM GRETECCORD, PHONE NUMBER 815-942-5063.



SEE SHEET 3

SEE SHEET 6

3	4
5	6

Sheet Layout

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- ~~~~~ TREELINE
- - - - EDGE OF WATER
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- ⊕ SURVEY CONTROL POINT

Legend

Bungalow Road

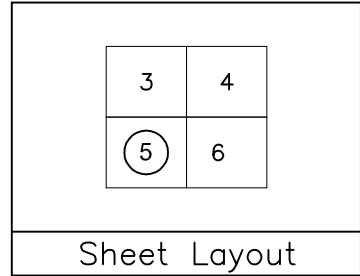
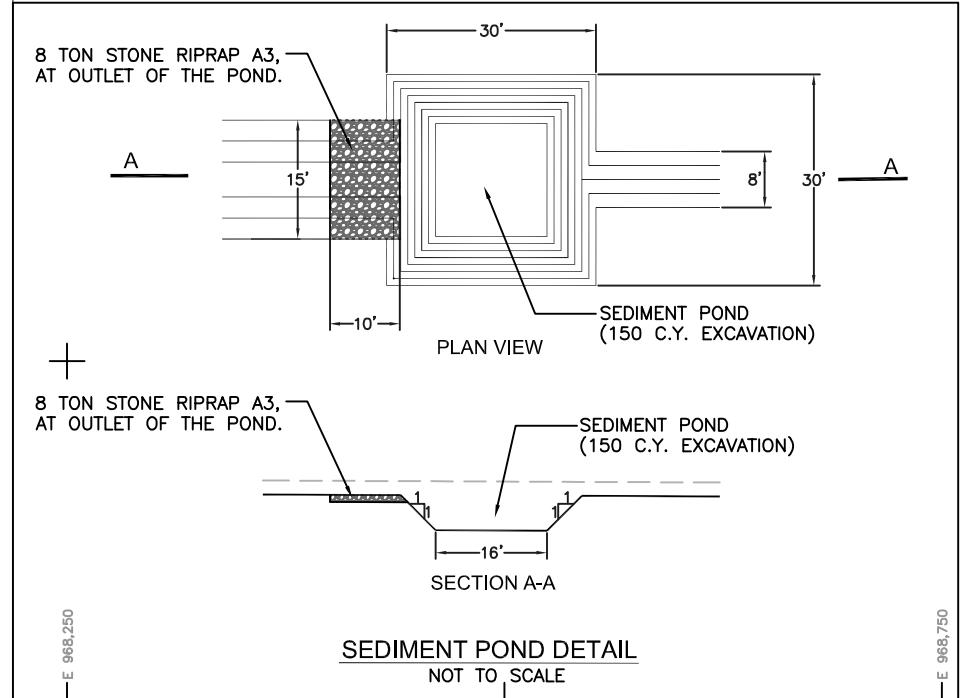
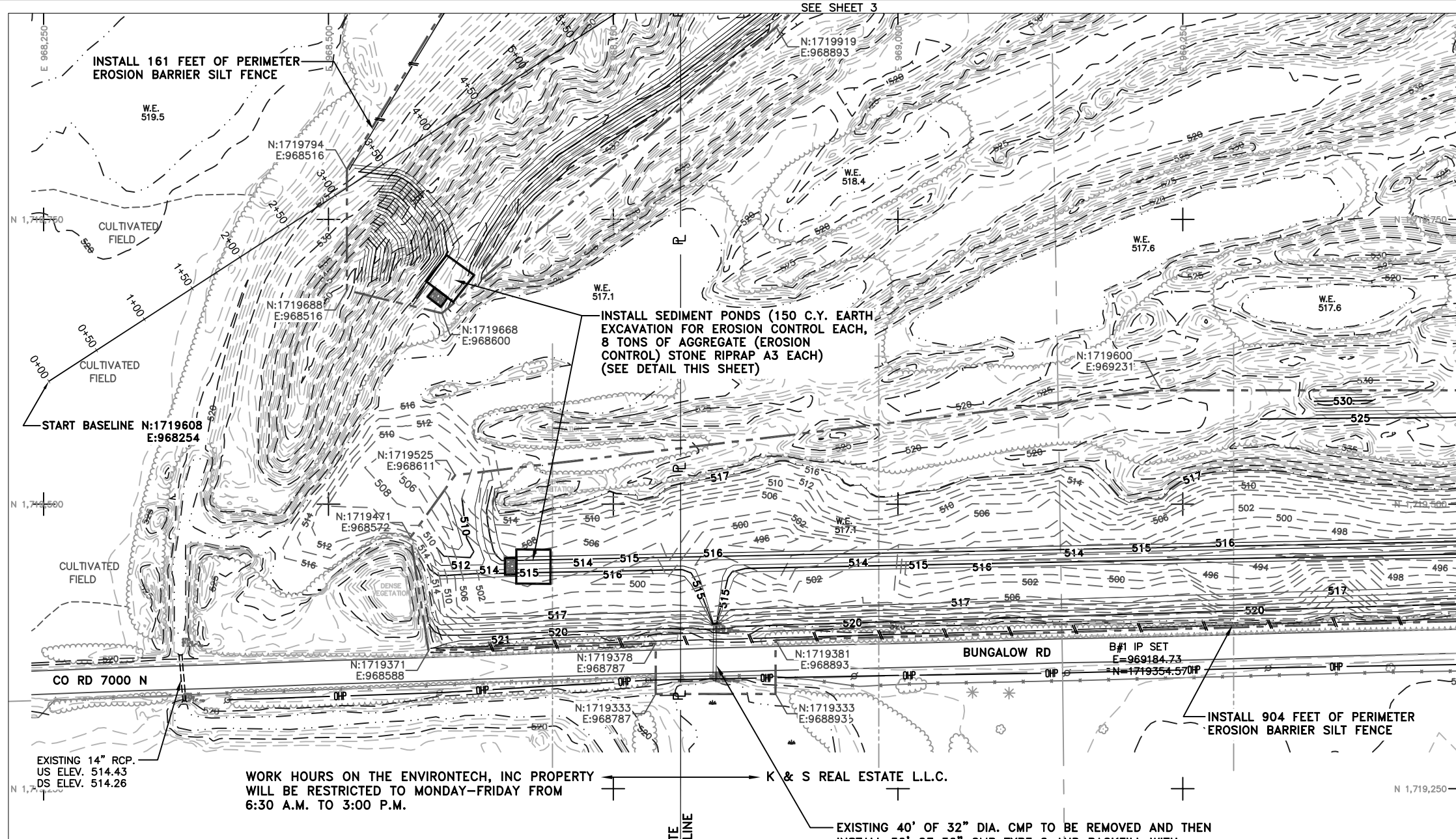


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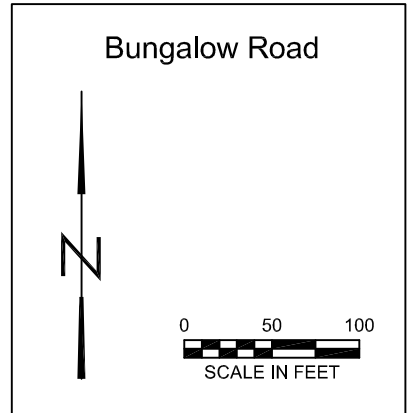
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Checked By:

Existing & Proposed
Conditions
Sheet
4 of 24



Legend

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— 400 —	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
—	EDGE OF ROAD
~~~~~	TREELINE
- - - - -	EDGE OF WATER
OP	OVERHEAD POWER
⊕	SURVEY CONTROL POINT

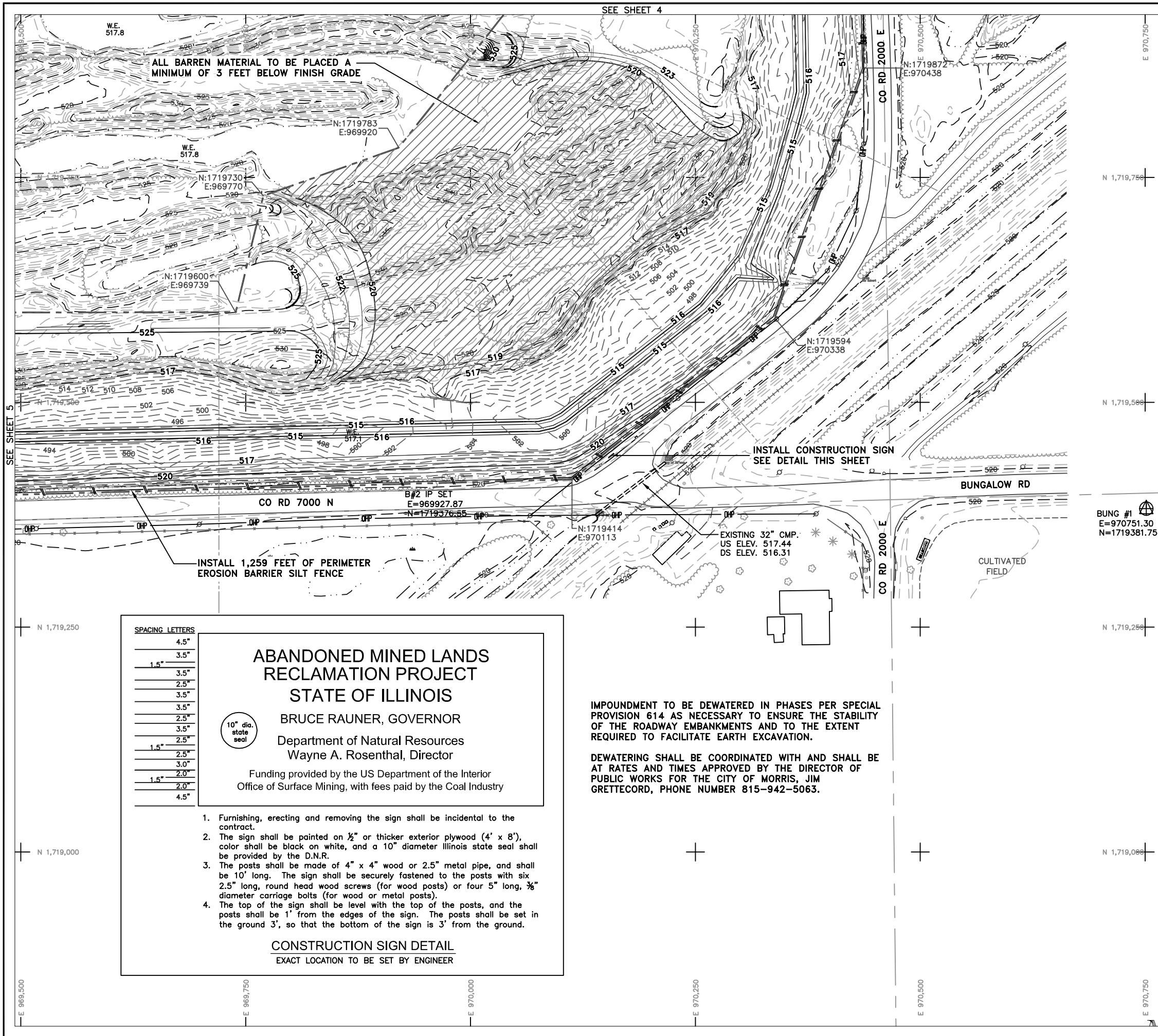


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Drawn By: V.P., M-LF  
Checked By: _____  
Date: 10/2/2015

Existing & Proposed  
Conditions  
Sheet  
5 of 24



SPACING LETTERS

4.5"
3.5"
1.5"
3.5"
2.5"
3.5"
3.5"
2.5"
3.5"
2.5"
1.5"
2.5"
3.0"
1.5"
2.0"
1.5"
2.0"
4.5"

**ABANDONED MINED LANDS  
RECLAMATION PROJECT  
STATE OF ILLINOIS**

BRUCE RAUNER, GOVERNOR  
Department of Natural Resources  
Wayne A. Rosenthal, Director

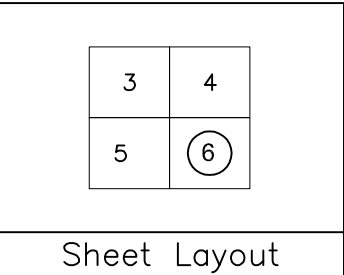
Funding provided by the US Department of the Interior  
Office of Surface Mining, with fees paid by the Coal Industry

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.

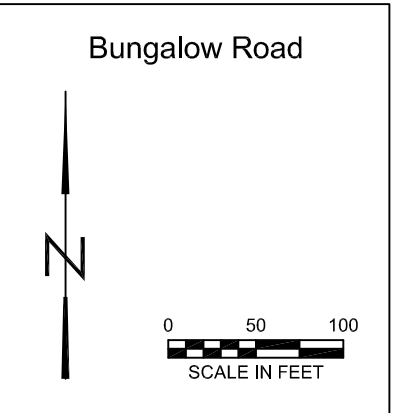
**CONSTRUCTION SIGN DETAIL**  
EXACT LOCATION TO BE SET BY ENGINEER

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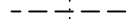


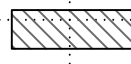
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  - - - - - EDGE OF WATER
  - OH — OVERHEAD POWER
  - ⊕ SURVEY CONTROL POINT
  - ▨ BARREN MATERIAL



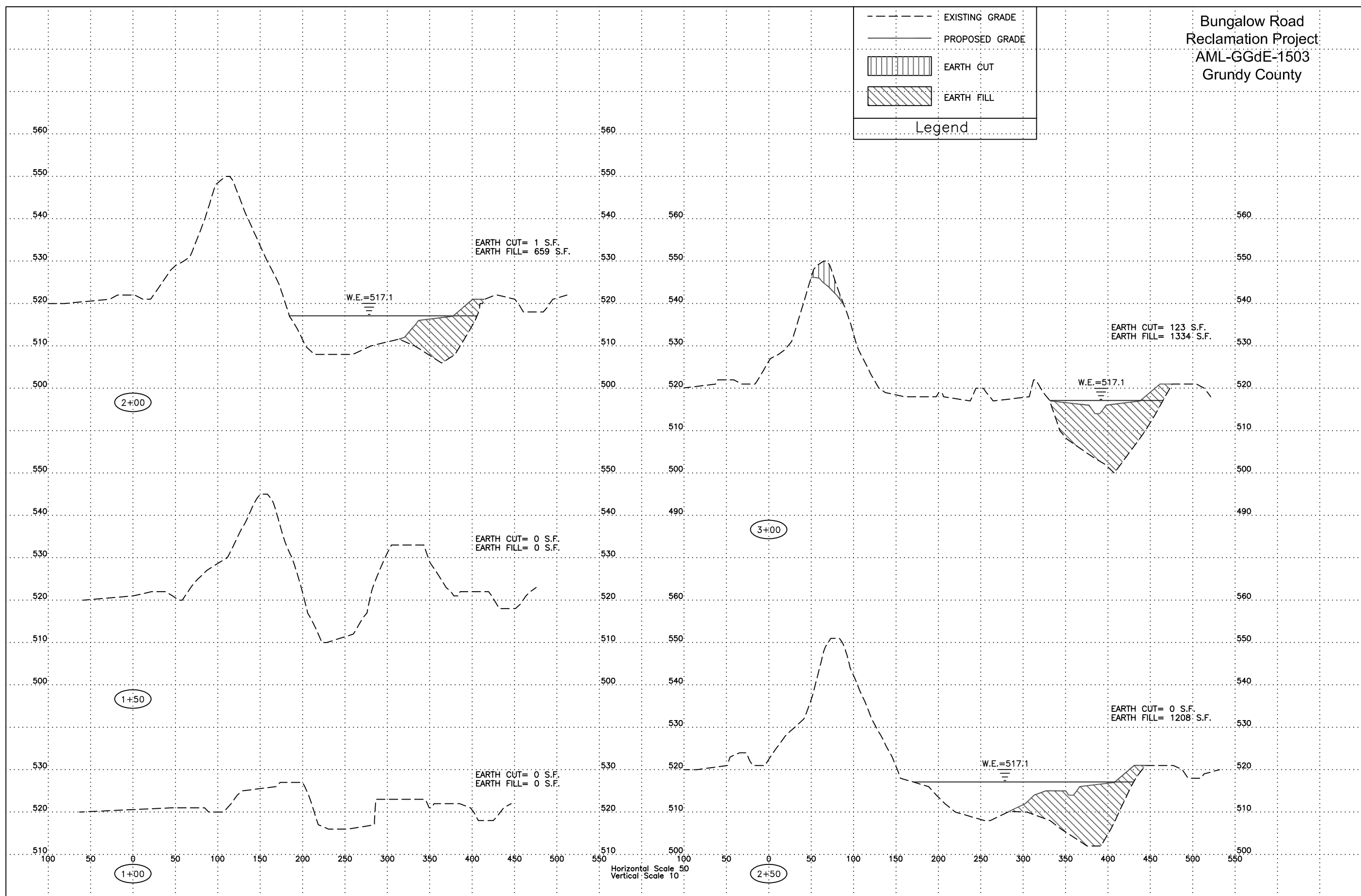
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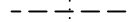


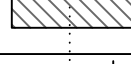
Bungalow Road  
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AML-GGdE-1503  
Grundy County

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	PROPOSED GRADE
	EARTH CUT
	EARTH FILL

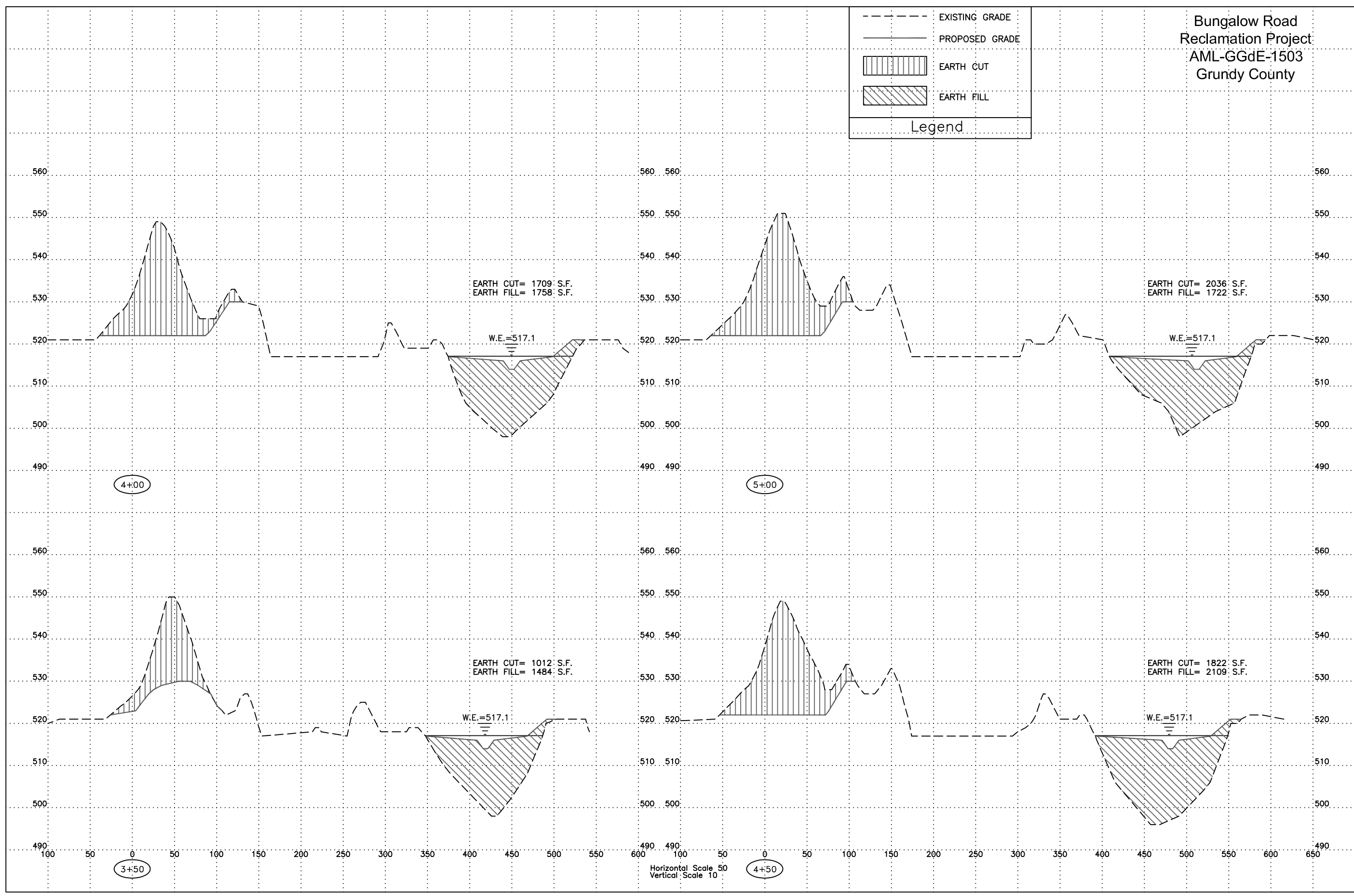
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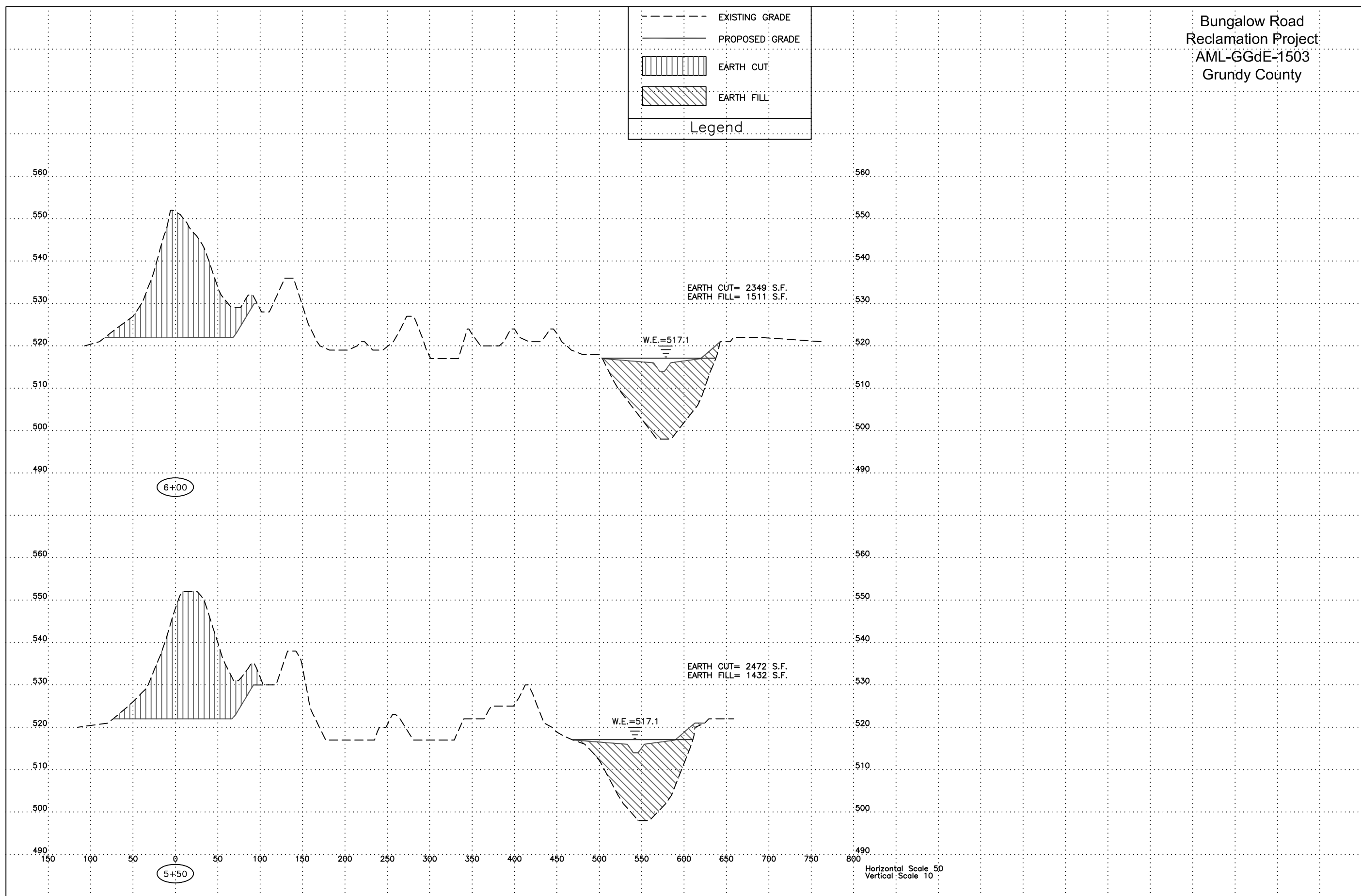
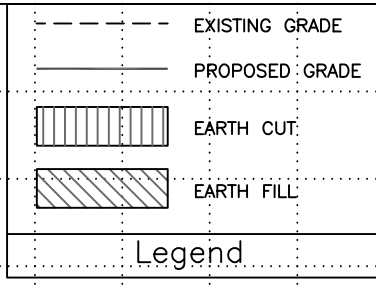
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	PROPOSED GRADE
	EARTH CUT
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Legend

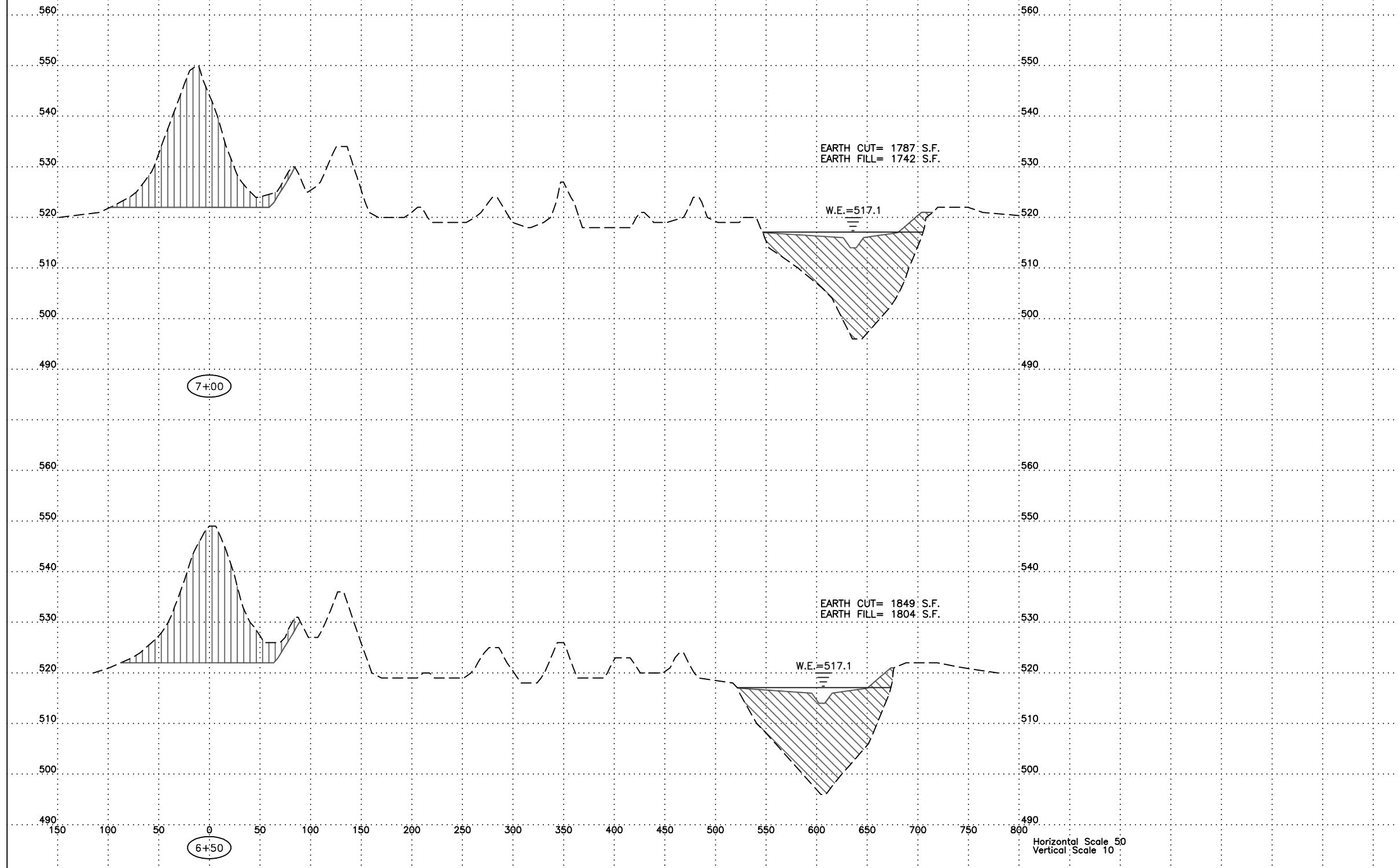


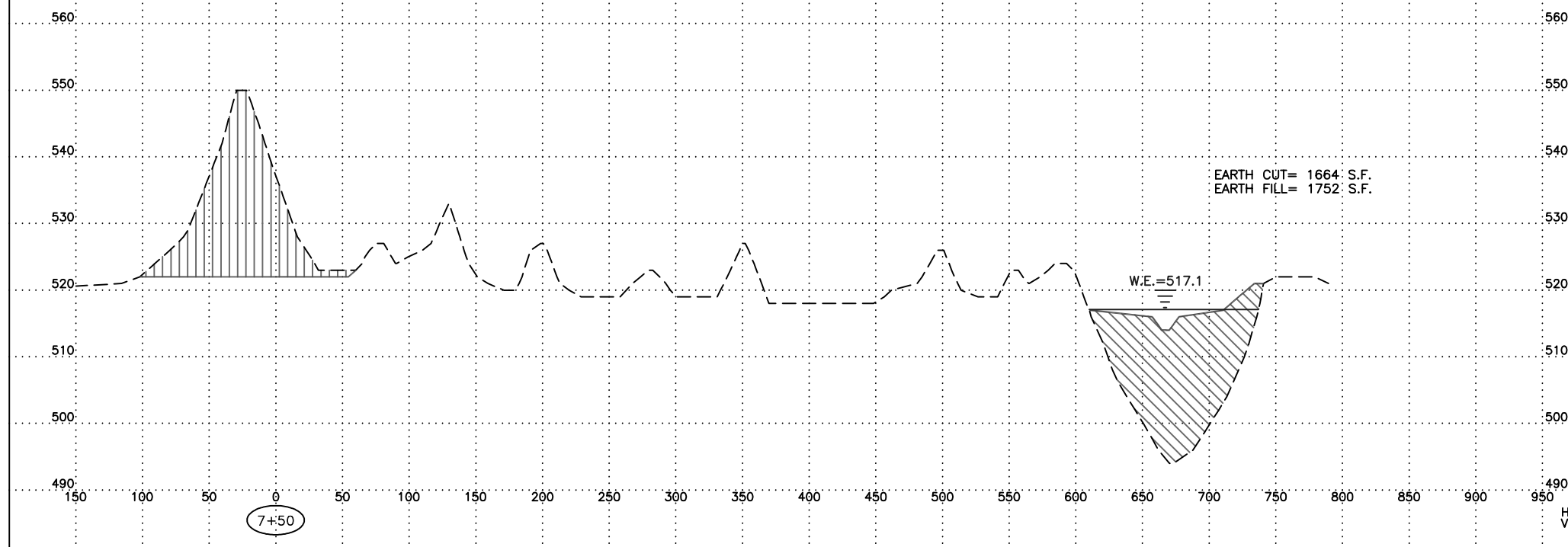
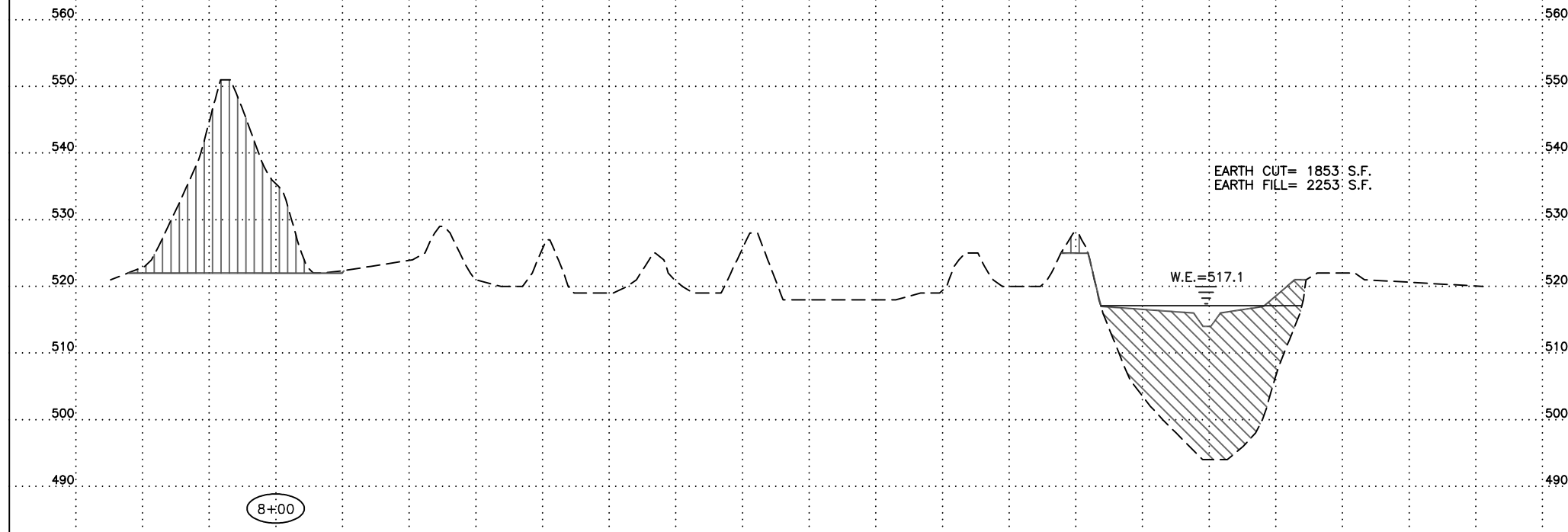
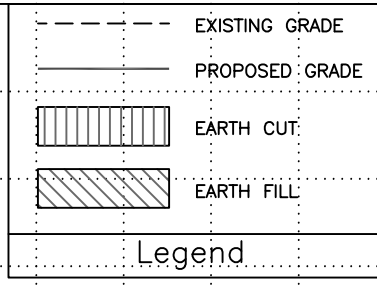




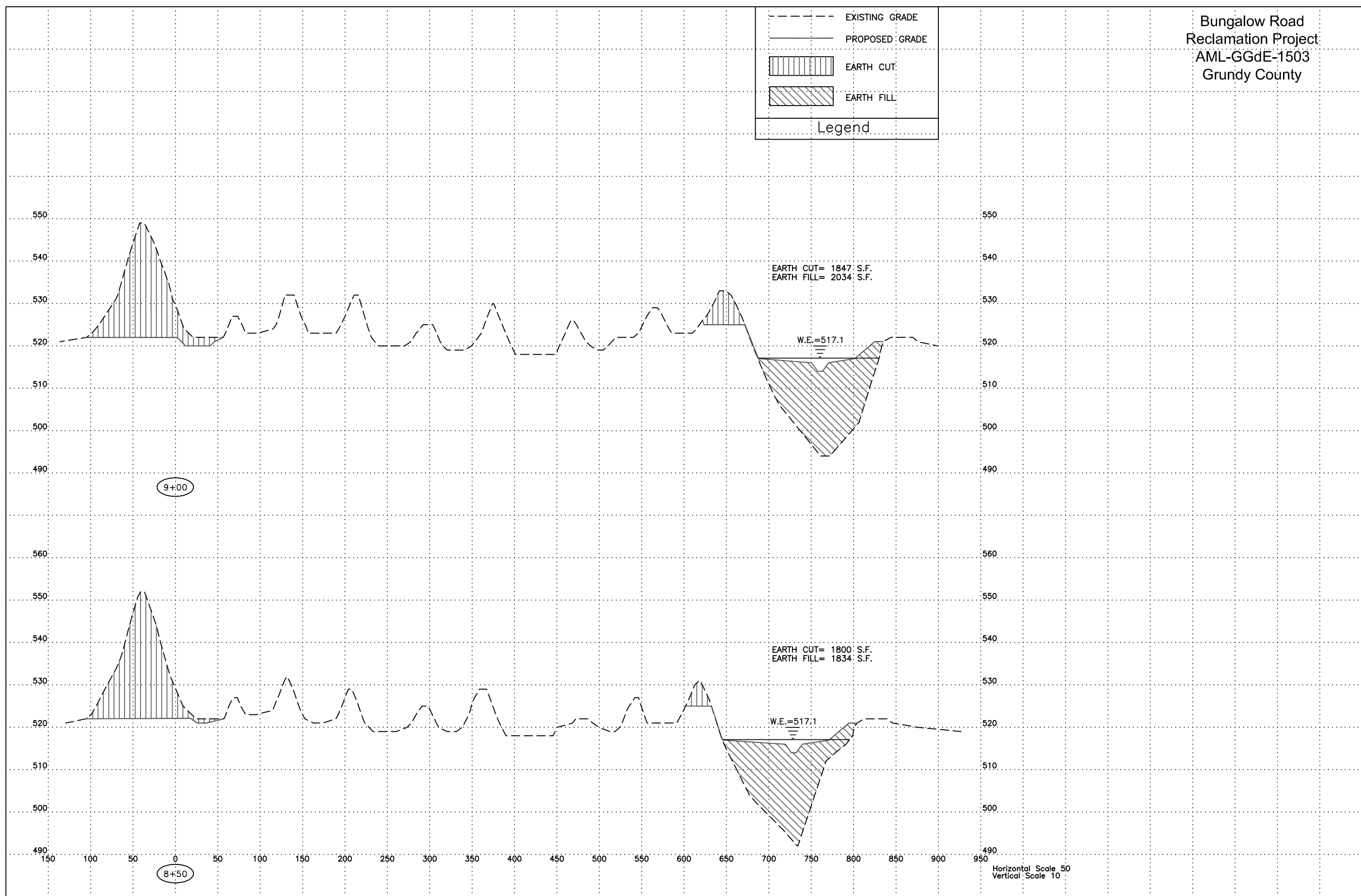
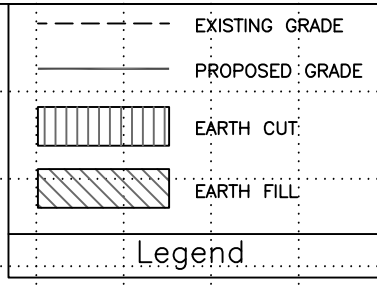
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- ▨ EARTH CUT
- ▩ EARTH FILL

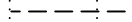





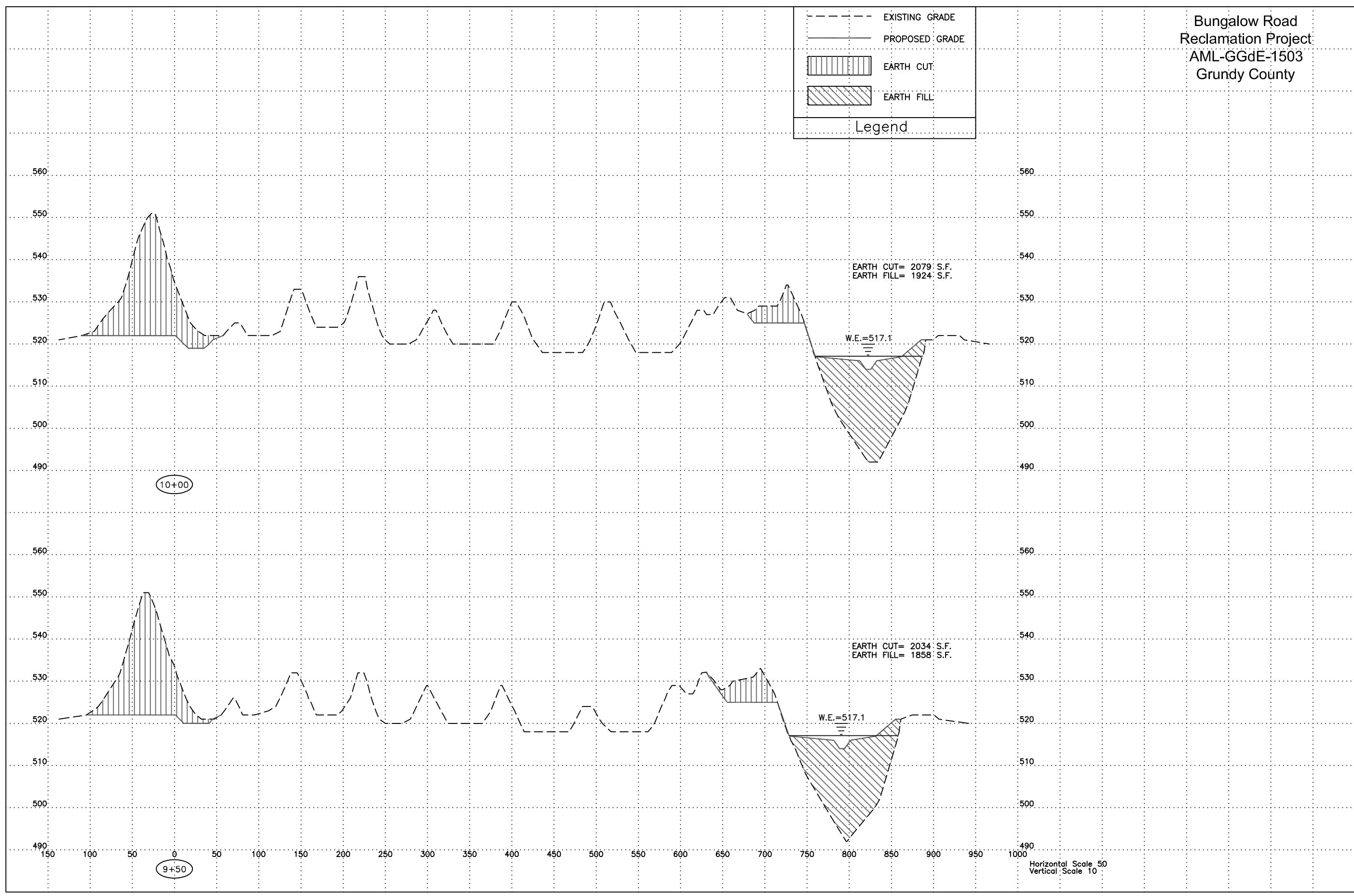


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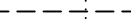


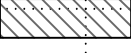
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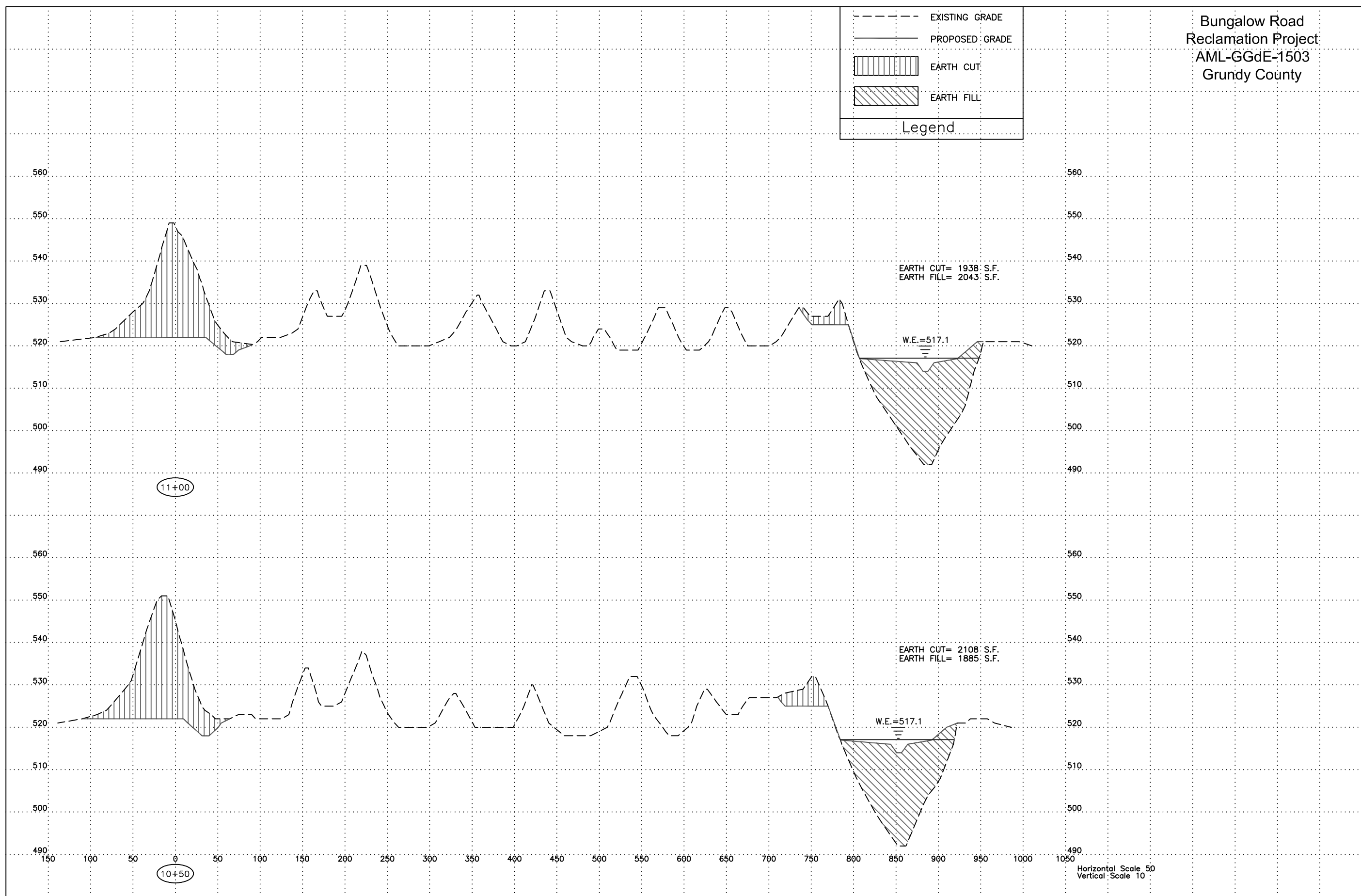
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	PROPOSED GRADE
	EARTH CUT
	EARTH FILL
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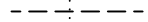


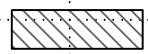
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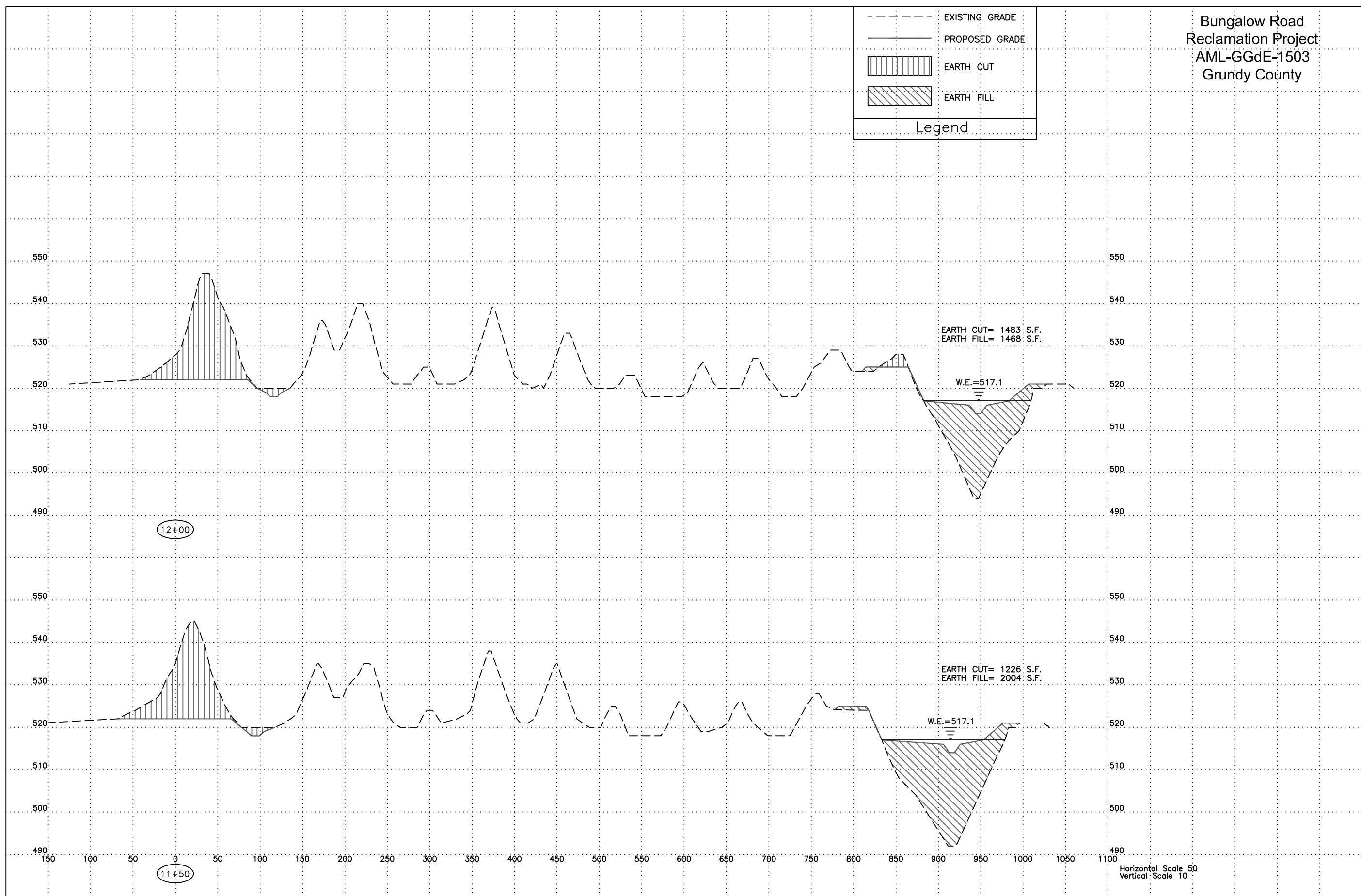
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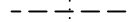


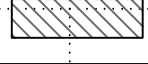


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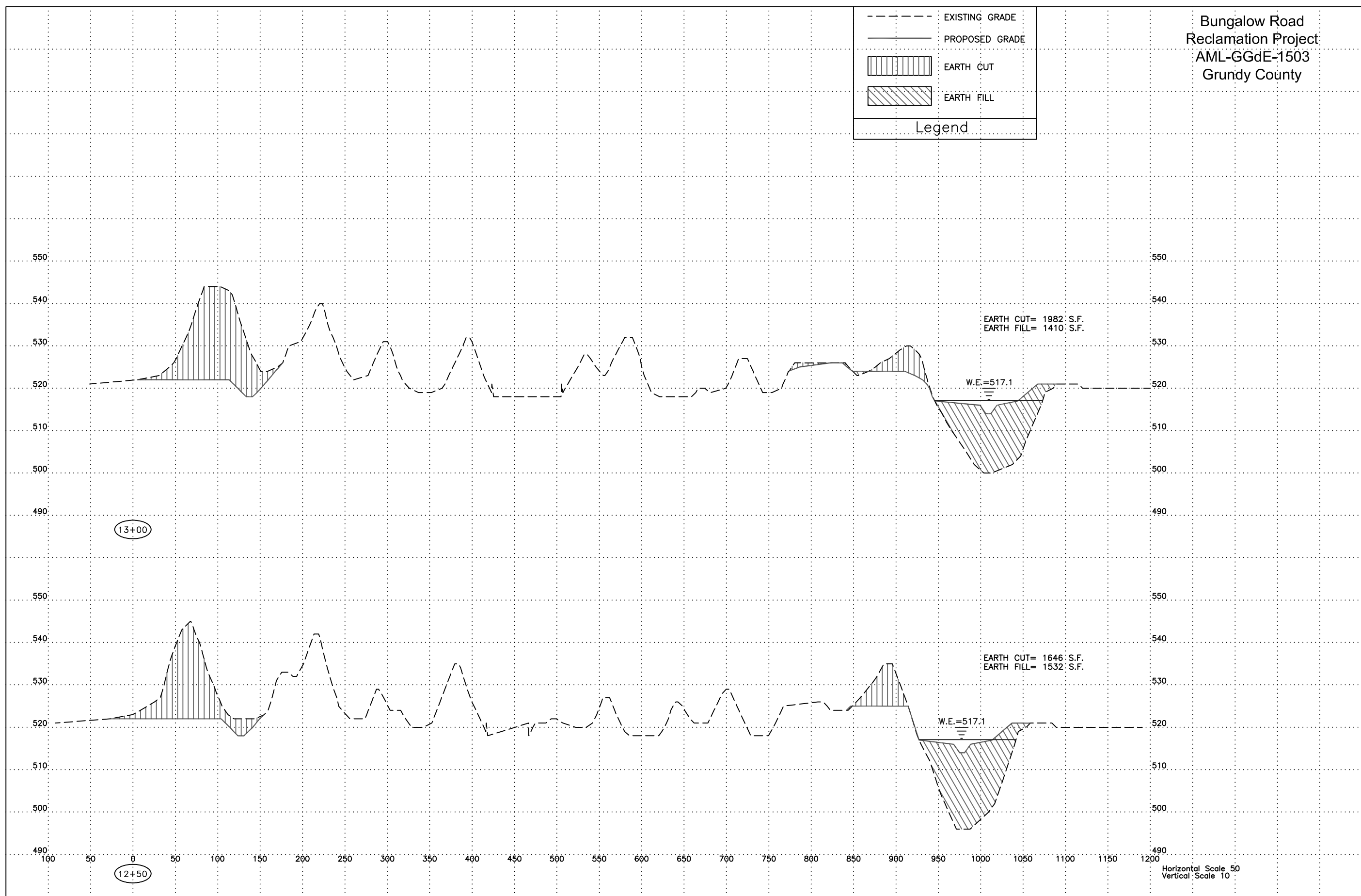
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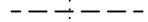


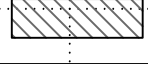
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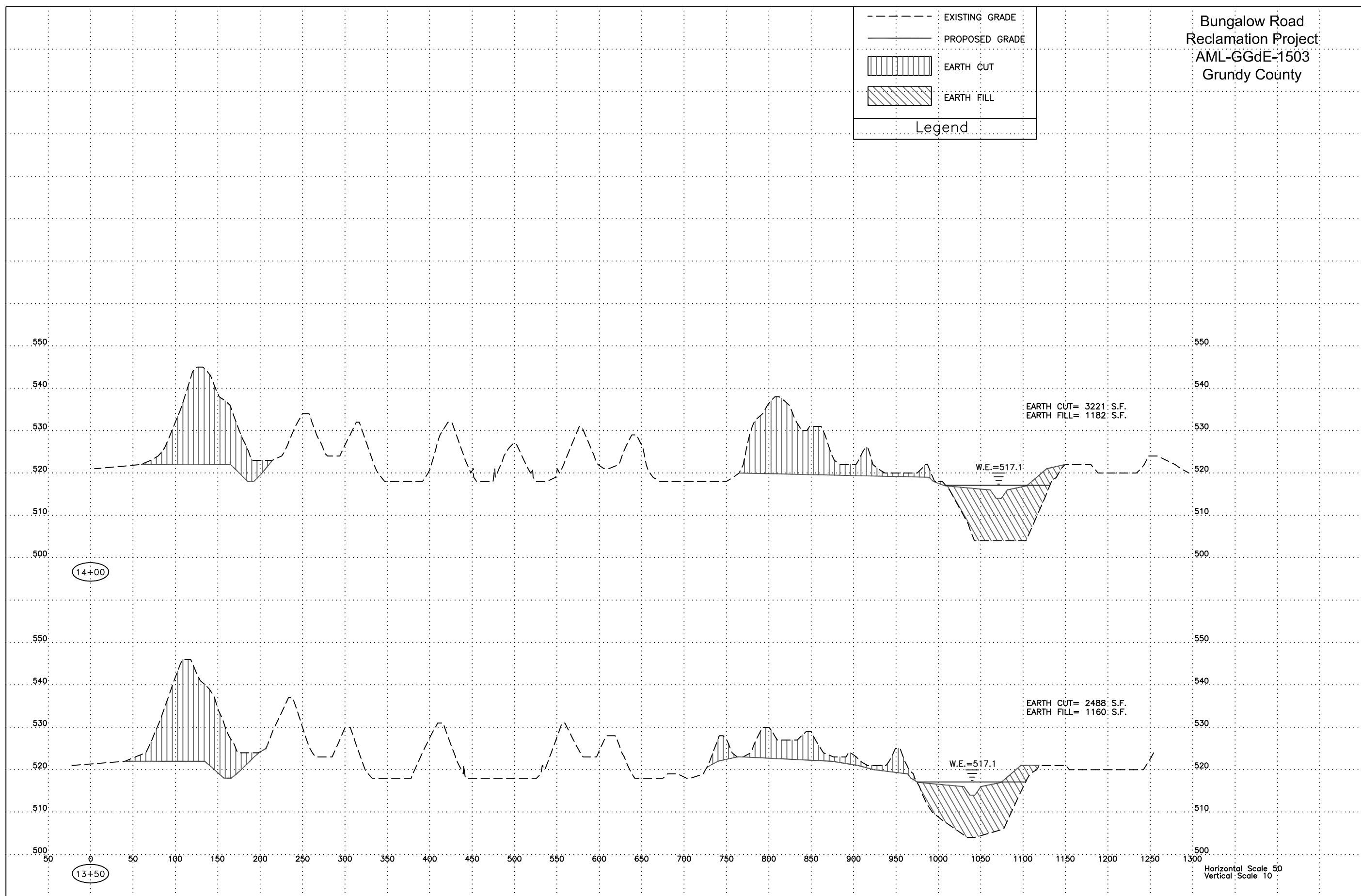
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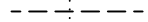


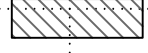
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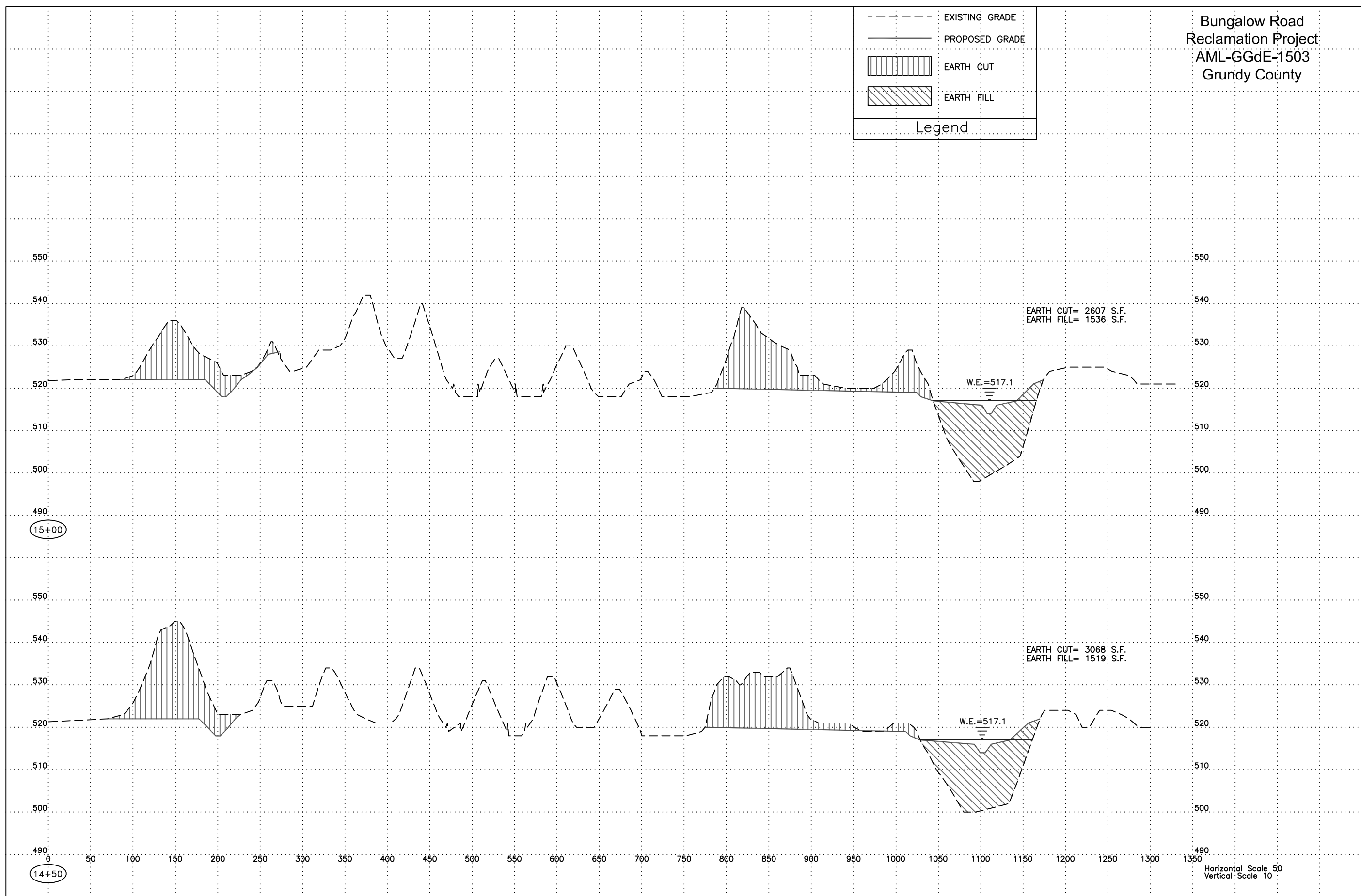
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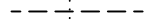


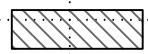
Horizontal Scale 50  
Vertical Scale 10

Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County

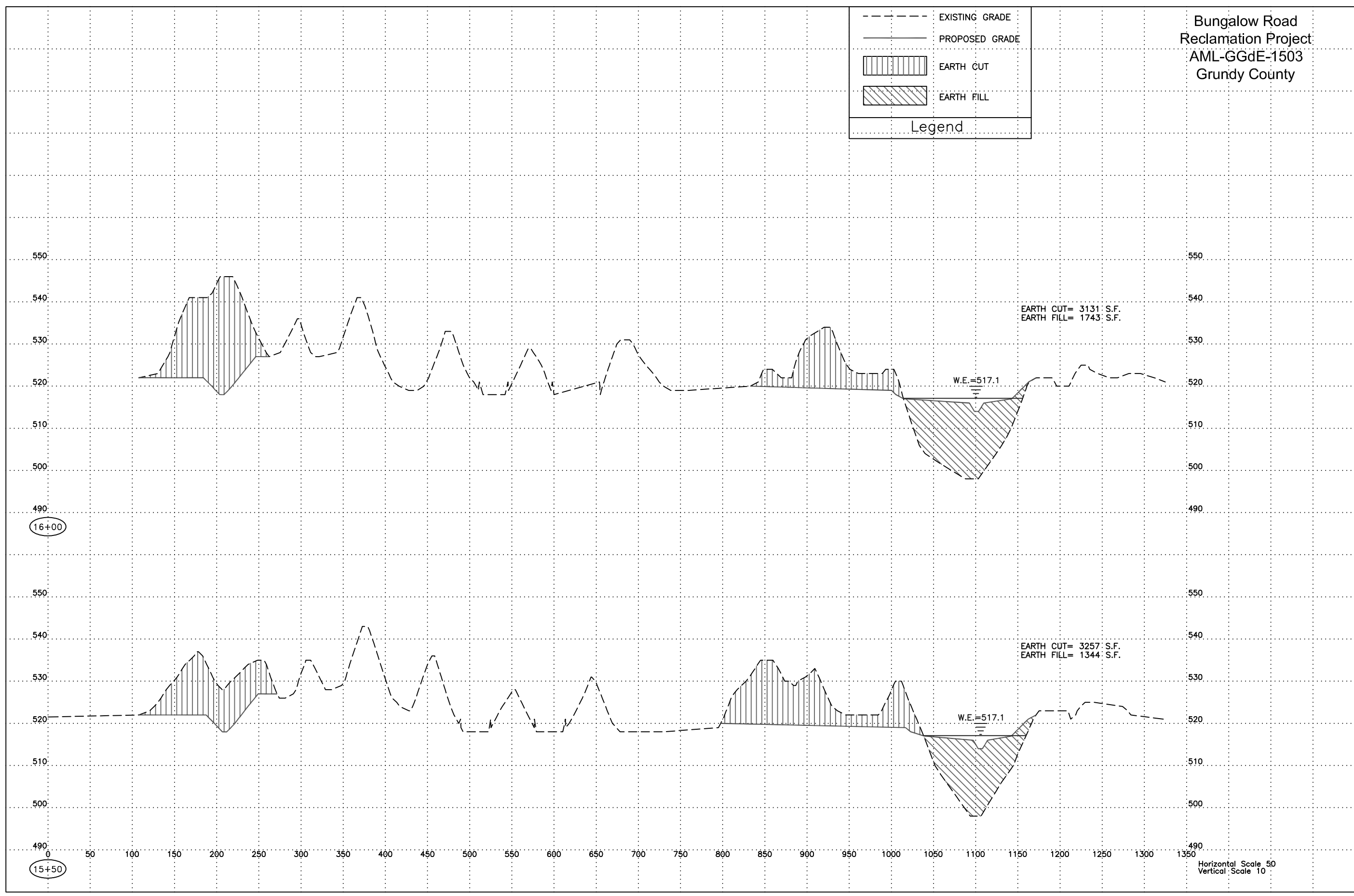
	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL
Legend	



Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County

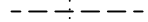


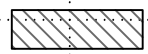
	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL

Legend

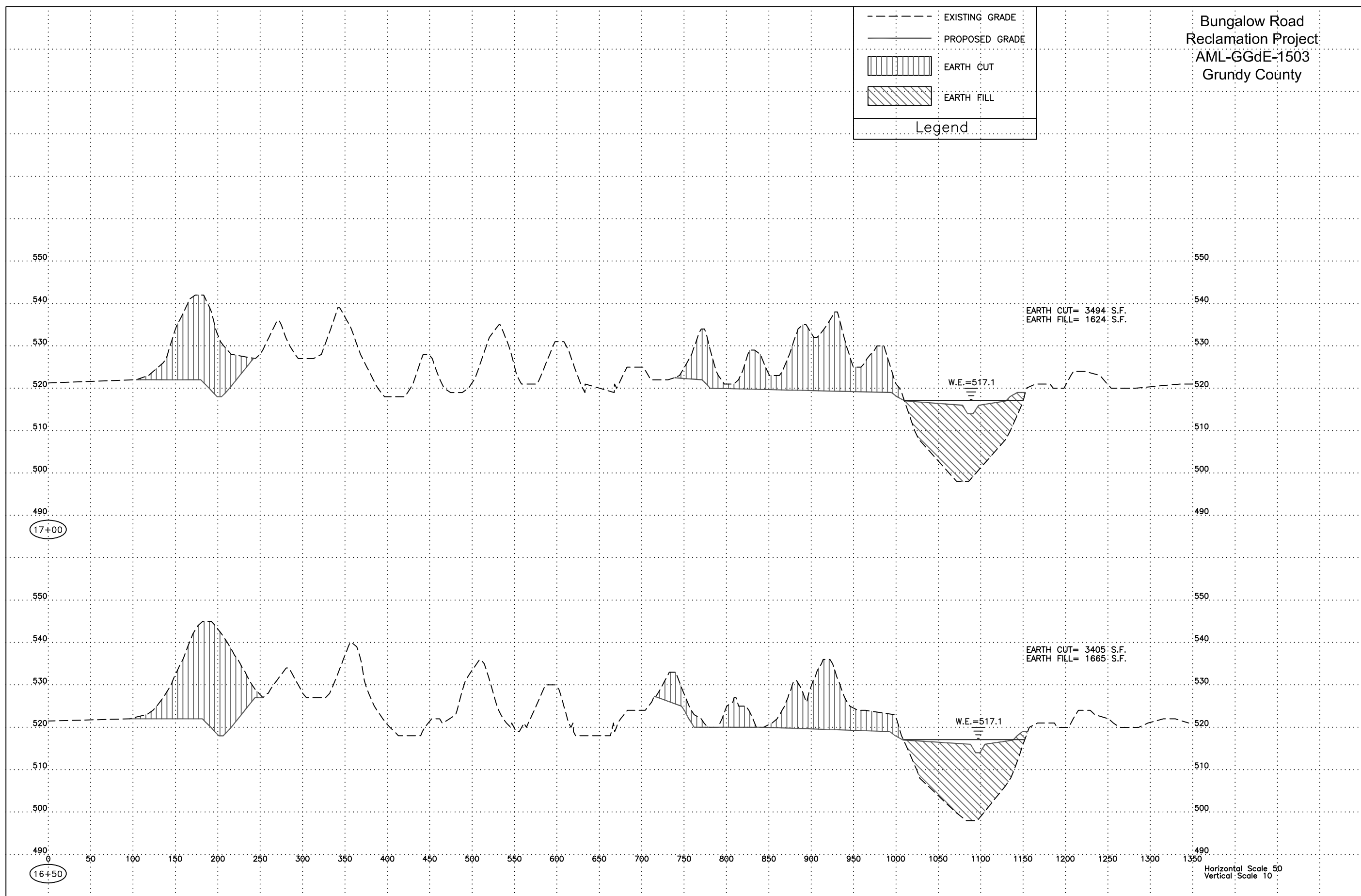


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Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County

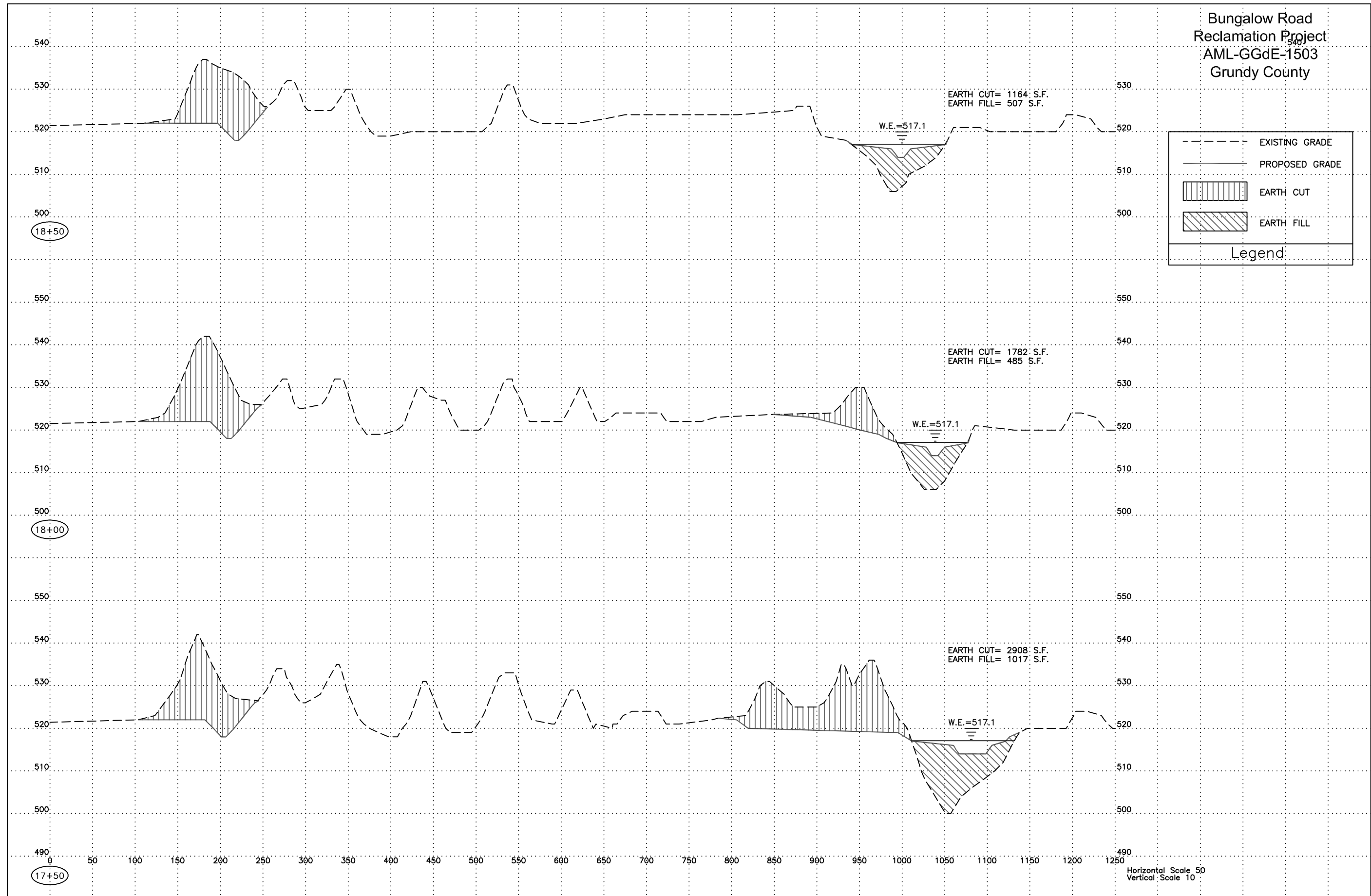
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	PROPOSED GRADE
	EARTH CUT
	EARTH FILL

Legend

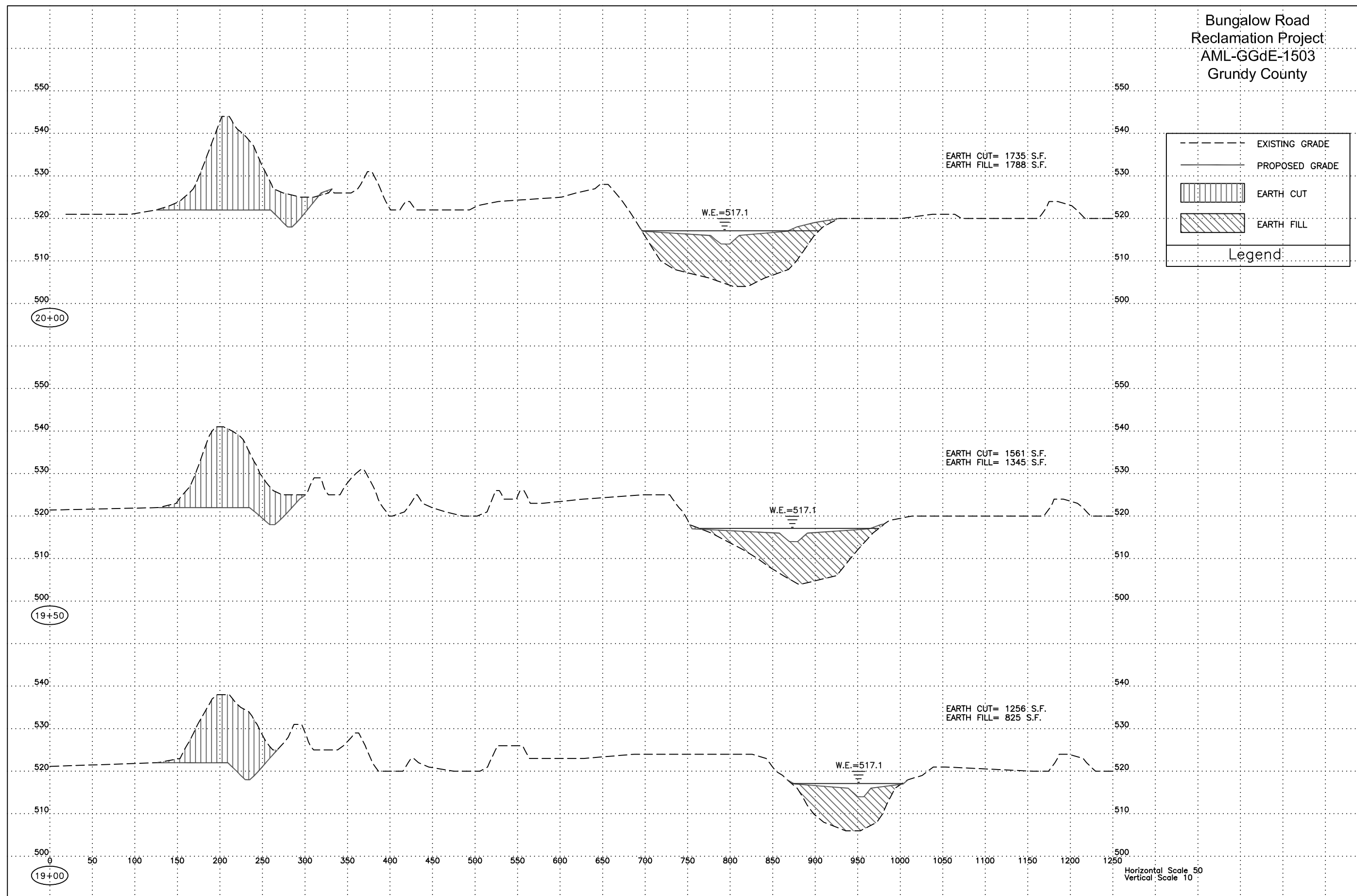


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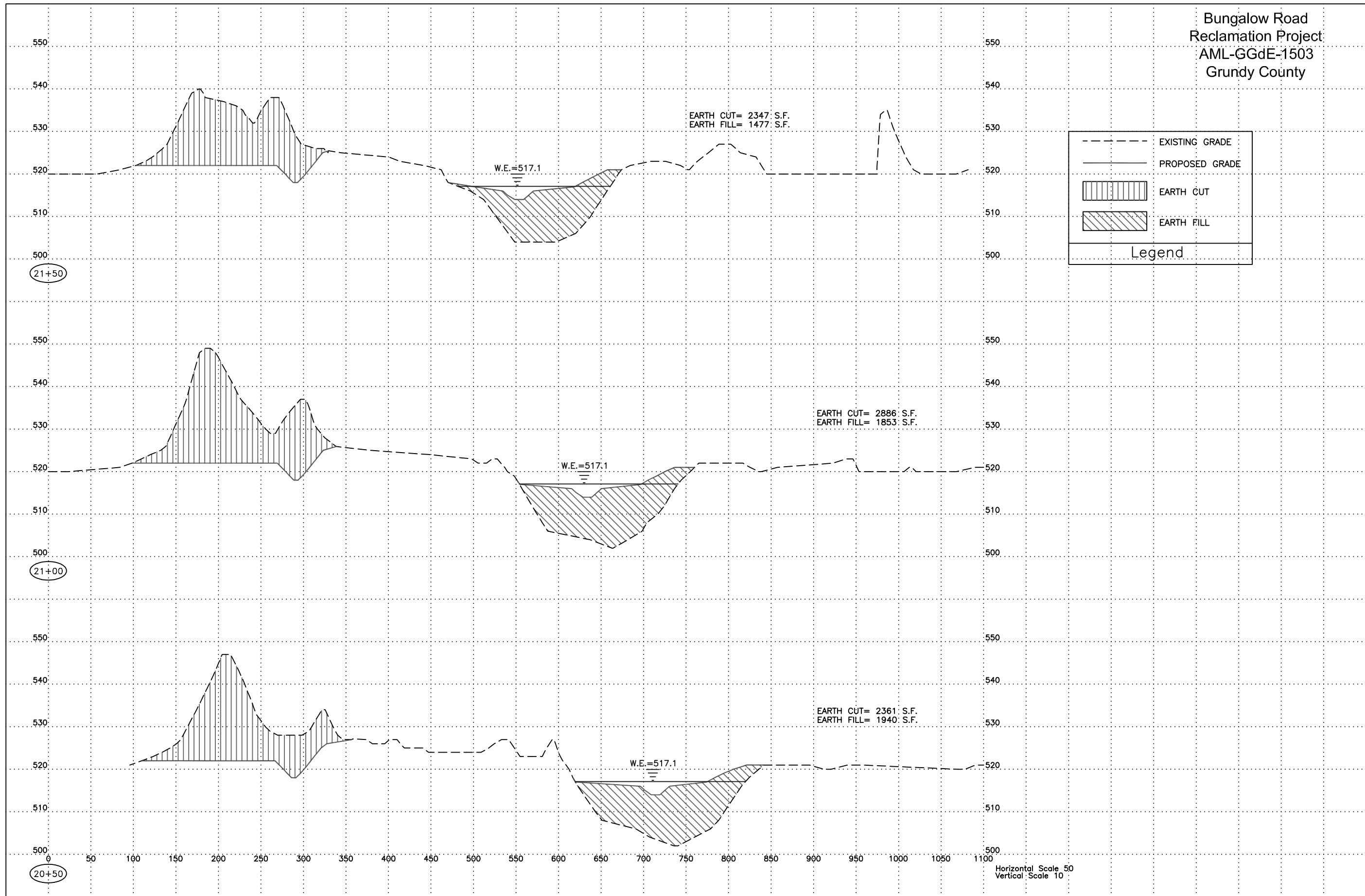
Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County



Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County

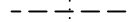


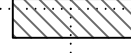


Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County

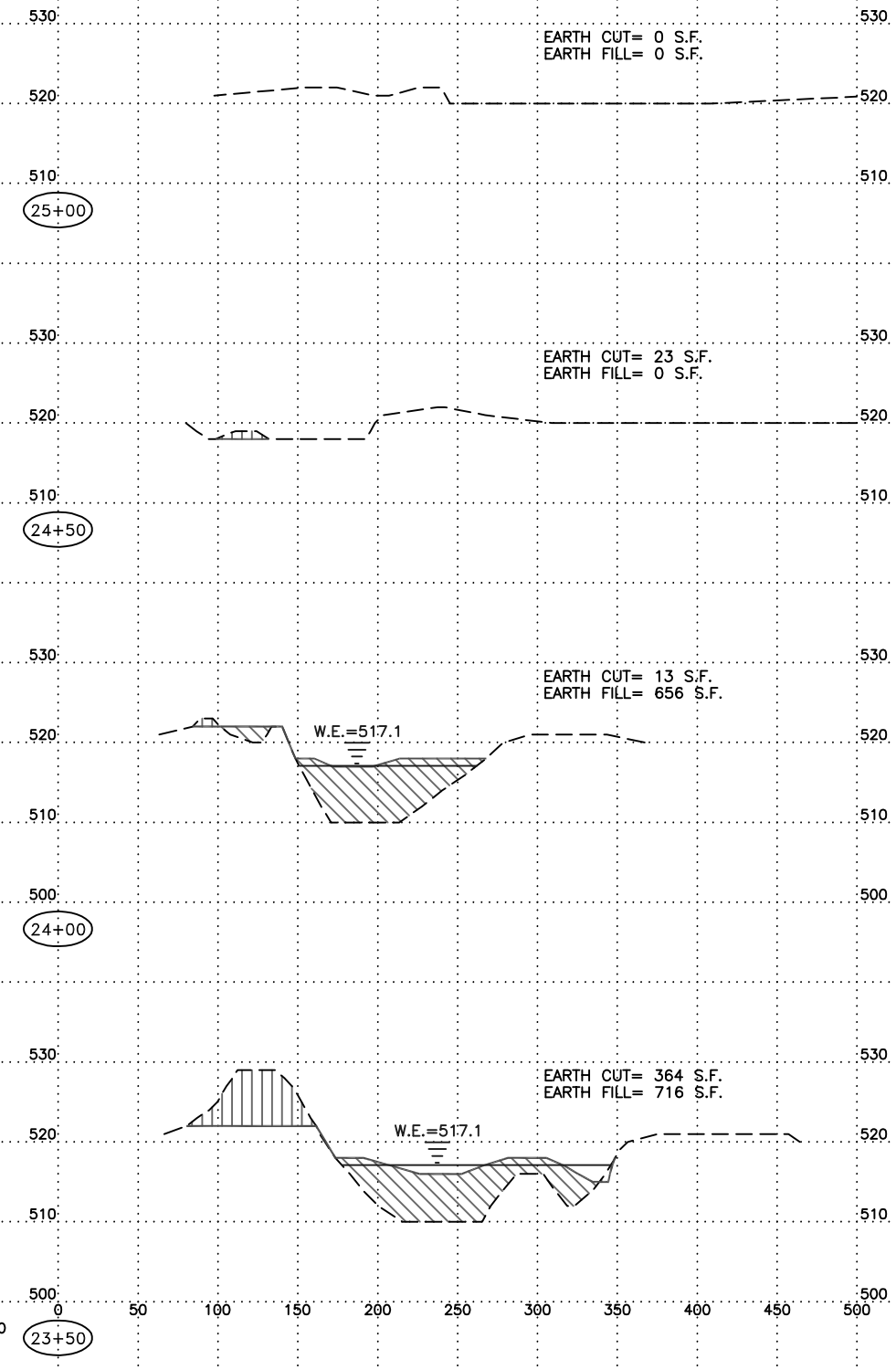
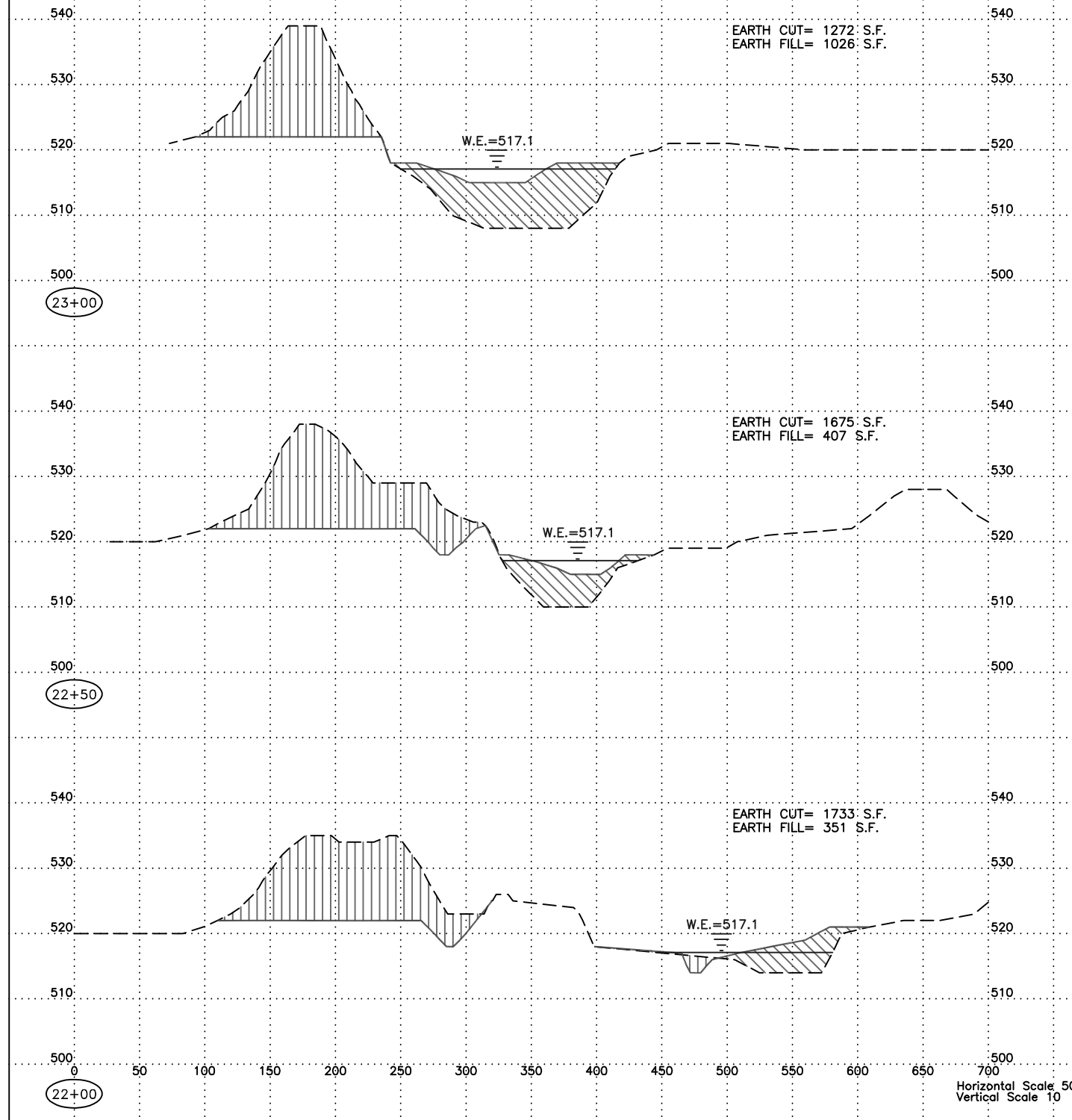


Horizontal Scale 50  
Vertical Scale 10

Bungalow Road  
Reclamation Project  
AML-GGdE-1503  
Grundy County

	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL

Legend



Horizontal Scale 50  
Vertical Scale 10