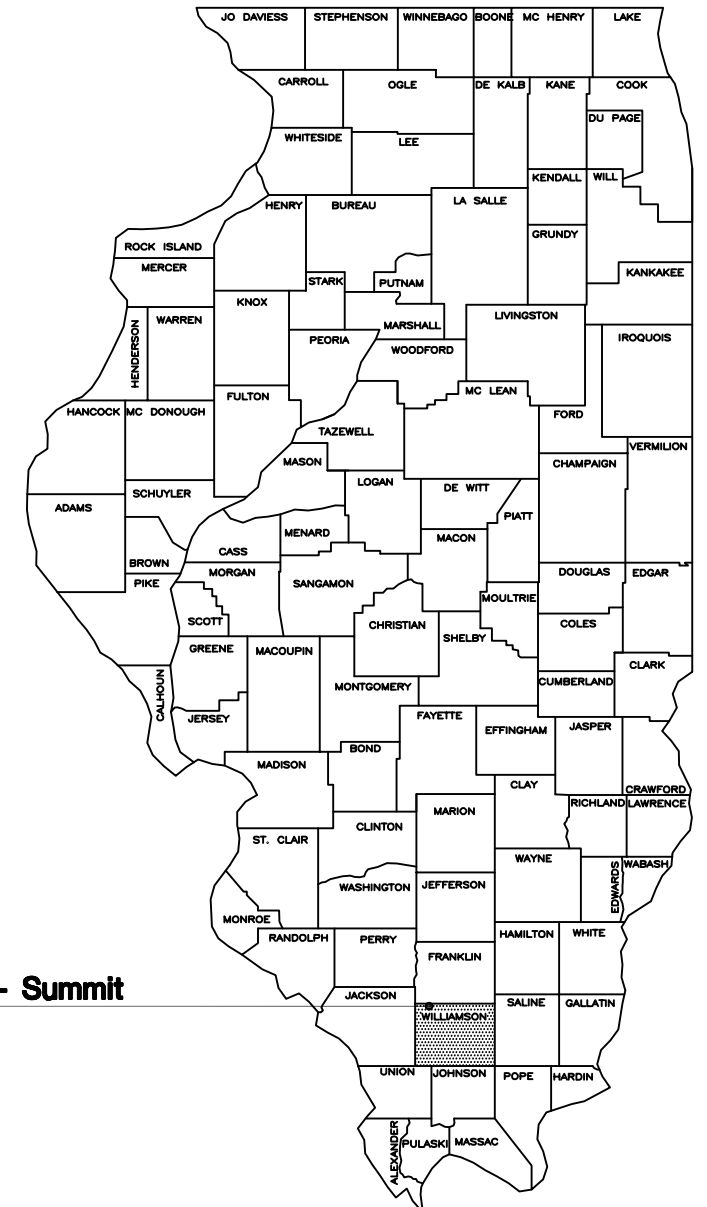


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands Reclamation

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

Bell & Zoller No. 3 - Summit
Reclamation Project
AML-GWmE-1703
Williamson County
3LR



Bell & Zoller No. 3 - Summit
Williamson County

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PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT ON WEDNESDAY, SEPTEMBER 13, 2017 AT 10:00 A.M. AT THE SOUTH END OF AU VASE ROAD (SEE SHEET 3). ALL PRIME AND SUBCONTRACTORS ARE ENCOURAGED TO ATTEND.

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities / General Notes / Location Map
3. Site Information
- 4-5. Existing and Proposed Conditions
- 6-13. Cross Sections
- 14-15. Details

CONTRACT NO. M1703

Prepared By IDNR Staff

Approved for Bidding:

Thomas A. Benner

Thomas A. Benner, Director
 Office of Mines and Minerals

Approved By:

J. Greg Pinto

J. Greg Pinto, Acting Manager
 AMLR Division

Approved By:

Janet L. Uglum

Janet L. Uglum, P.E.
 IL Licensed Professional Engineer
 No. 062-054108



Summary of Quantities						
Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	SPECIAL CLEARING	201	1	L SUM	
NRM20210	2	EARTH EXCAVATION	202	112,435	CU YD	COMPACTION IN ACCORDANCE WITH SECTION 205 OF SPECIAL PROVISIONS
NRM20230	3	MINE REFUSE EXCAVATION	202	182,770	CU YD	
20700110	4	POROUS GRANULAR EMBANKMENT	IDOT 207	254.4	TON	
NRM21510	5	SPECIAL EXCAVATION	215	266	CU YD	
NRM21621	6	CA-FILL, CA-1	216	2.1	TON	
NRM21644	7	ROCKFILL, RR-4	216	20.1	TON	
NRM21661	8	CLASS SI CONCRETE PLUG	216	16	CU YD	
NRM25040	9	NITROGEN FERTILIZER NUTRIENT	250	6,940	POUND	100 LB/ACRE TWICE
NRM25050	10	PHOSPHOROUS FERTILIZER NUTRIENT	250	1,735	POUND	50 LB/ACRE
NRM25060	11	POTASSIUM FERTILIZER NUTRIENT	250	3,470	POUND	100 LB/ACRE
NRM25070	12	AGRICULTURAL GROUND LIMESTONE	250	173.5	TON	5 TON/ACRE
NRM25090	13	SEEDING	250	34.7	ACRE	
25100115	14	MULCH, METHOD 2, PROCEDURE 1	IDOT 251	34.7	ACRE	2 TON/ACRE
NRM25510	15	MINE REFUSE TREATMENT - LIMESTONE	255	2,925.0	TON	150 TON/ACRE
NRM25810	16	MOWING	258	34.7	ACRE	
NRM28040	17	PERIMETER EROSION BARRIER	280	2,395	FOOT	
28200200	18	FILTER FABRIC	IDOT 282	308	SQ YD	PER DETAIL A-14
28400100	19	GABIONS	IDOT 284	145	CU YD	
NRM28610	20	SPECIAL EXCELSIOR BLANKET	286	3,093	SQ YD	8' WIDE
40200800	21	AGGREGATE SURFACE COURSE, TYPE B	IDOT 402	391.5	TON	CA-6
NRM50101	22	REMOVAL OF EXISTING STRUCTURES	501	1	L SUM	
NRM59510	23	REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL	595	1	L SUM	
NRM61410	24	DEWATERING IMPOUNDMENTS	614	1	L SUM	
NRM61610	25	COFFERDAMS	616	1	L SUM	
NRM66610	26	MINE OPENING MARKER	666	1	EACH	
NRM67110	27	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 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 cleared from the site shall be disposed of onsite per Section 201 of the Special Provisions.

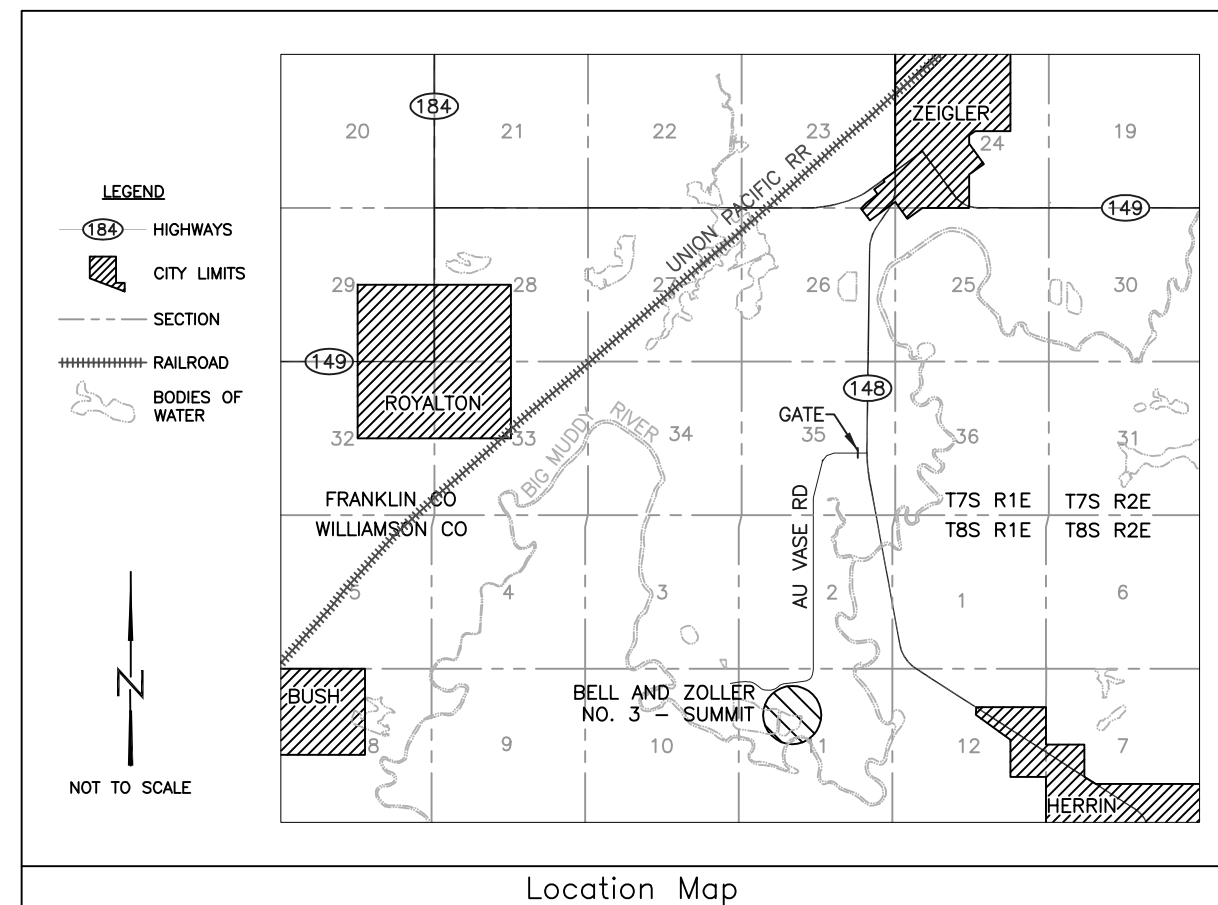
ACID WATER TREATMENT - If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

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.

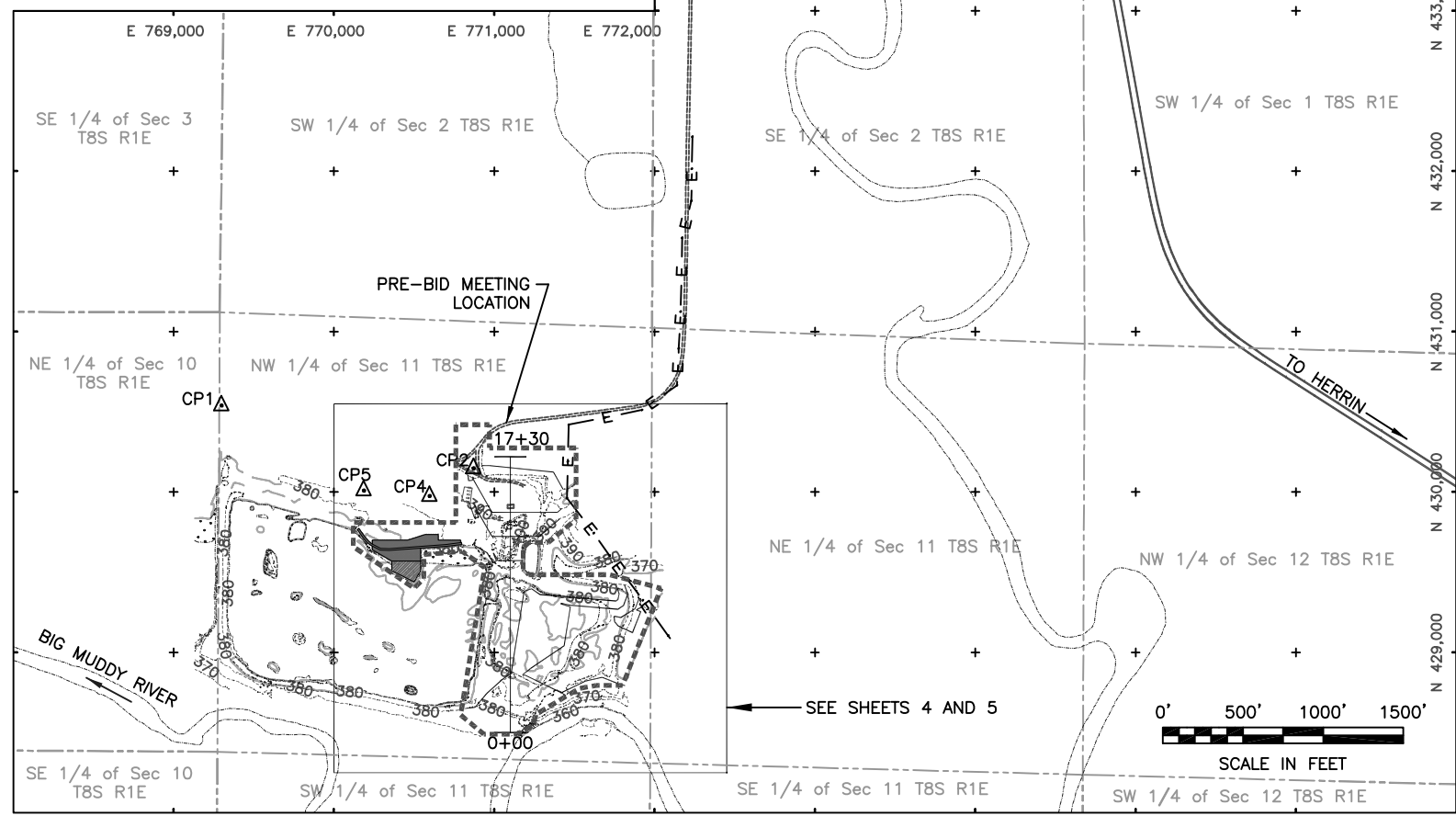
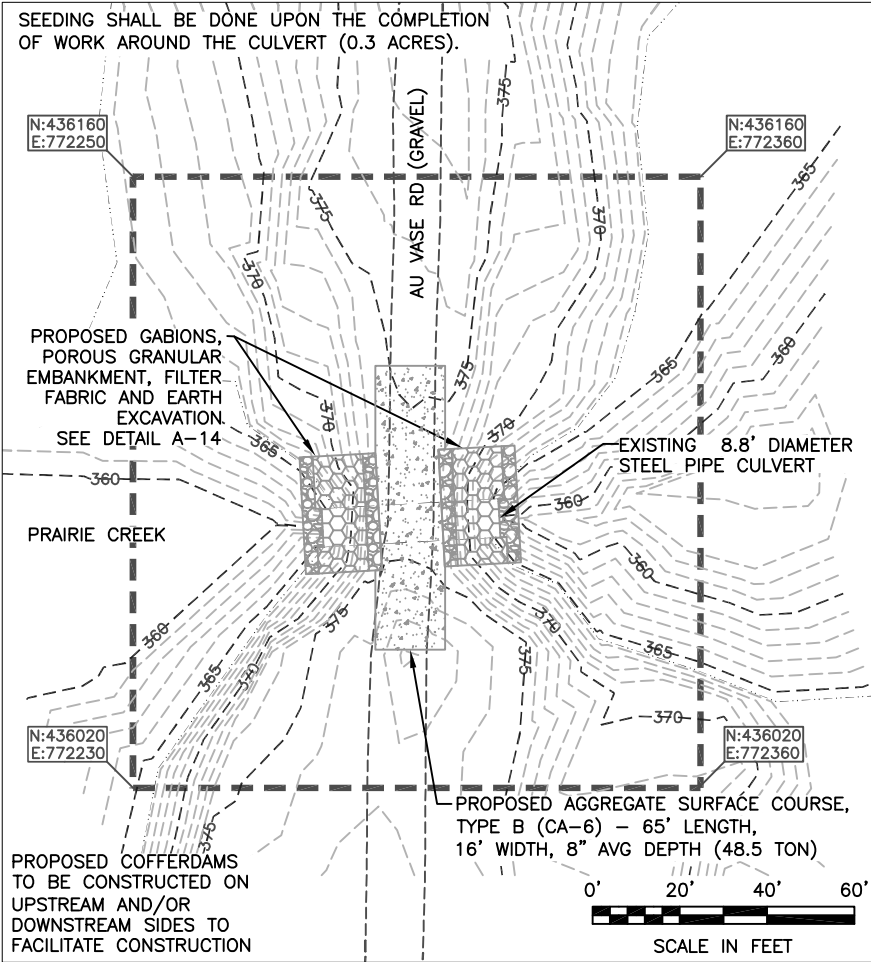
AGRICULTURAL GROUND LIMESTONE - Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

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 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 disk approved by the engineer. Treated areas shall then be covered with soil as directed in the plans.



Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing				
ITEM (unit)	INITIAL APPLICATION FALL 2018 AUG 20 - SEPT 30	SECOND APPLICATION SPRING 2019 JAN 1 - MARCH 15	MOWING	TOTAL QUANTITY
SEEDING (acres)	34.7		EXACT DATE TO BE APPROVED BY ENGINEER	34.7
NITROGEN FERTILIZER NUTRIENT (pounds)	3,470	3,470		6,940
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,735			1,735
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,470			3,470
AGRICULTURAL GROUND LIMESTONE (tons)	173.5			173.5
MULCH, METHOD 2 PROCEDURE 1 (acres)	34.7			34.7
MOWING (acres)			34.7	34.7



CONTROL POINT INFORMATION				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	430539.40	769299.29	379.43	REBAR WITH CAP
CP2	430148.10	770871.86	395.38	REBAR WITH CAP
CP4	429975.05	770597.13	389.55	REBAR WITH CAP
CP5	430009.08	770187.22	383.33	REBAR WITH CAP

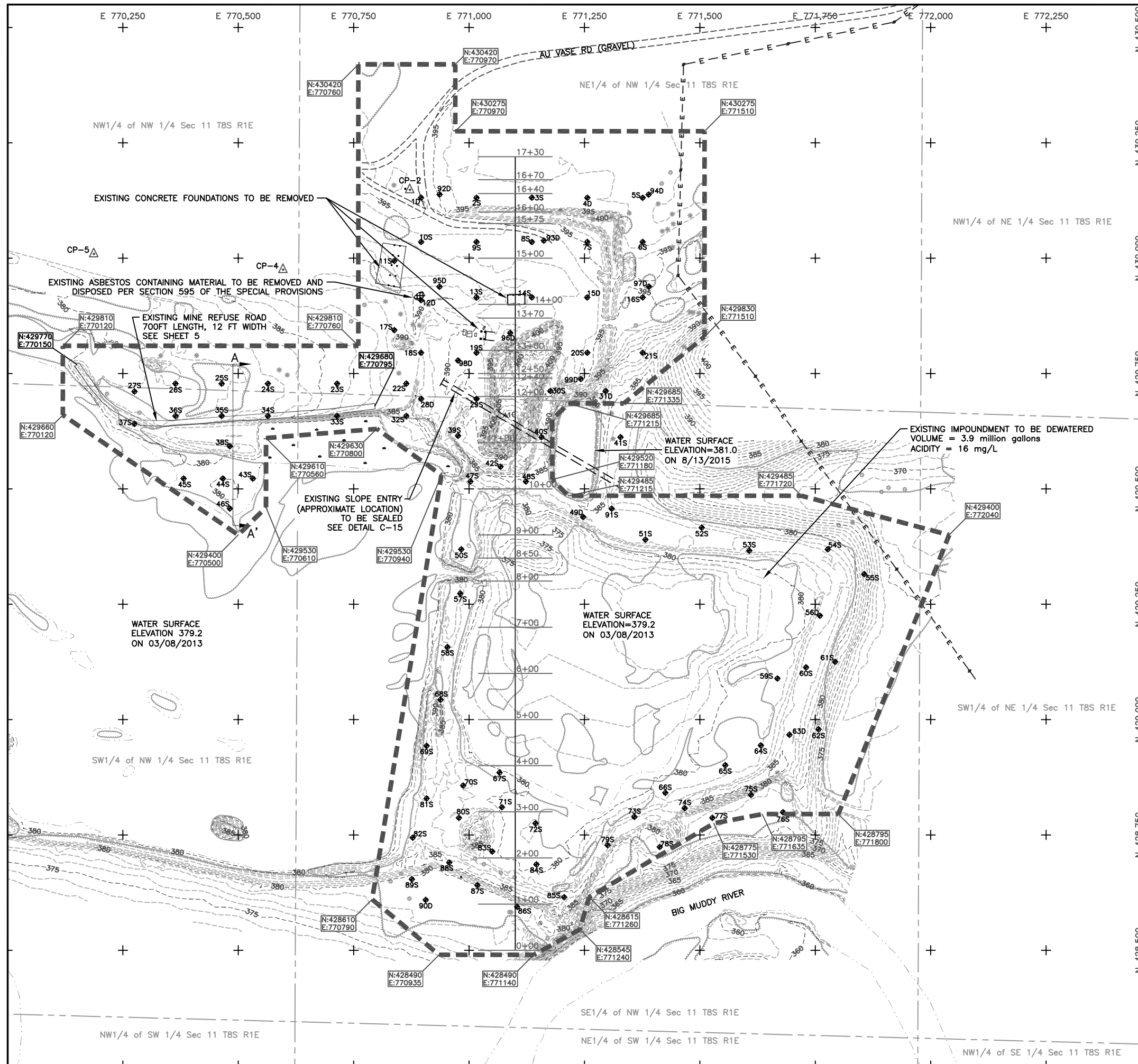
BASELINE INFORMATION		
STATION	NORTHING	EASTING
0+00	428,500	771,100
17+30	430,230	771,100

NOTES

1. THE CONTRACTOR SHALL PROVIDE AMPLE WARNING OF ANY ROAD CLOSINGS IN ORDER TO CONTACT AFFECTED LANDOWNERS. CLOSINGS AT THE CULVERT SHALL NOT OCCUR IN THE MONTHS OF OCTOBER AND NOVEMBER.

LEGEND	
	EXISTING CONTOUR (5' INTERVAL)
	PROPOSED CONTOUR (5' INTERVAL)
	PROPOSED CONSTRUCTION LIMITS
	SECTION LINE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING ROAD, UNPAVED
	CONTROL POINT

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NOTES

- DEWATERING IMPOUNDMENTS SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 614 OF THE SPECIAL PROVISIONS. CLOSING THE OPEN CHANNEL BETWEEN THE EXISTING CELLS TO FACILITATE DEWATERING SHALL BE INCIDENTAL TO DEWATERING IMPOUNDMENTS.
- THE EXISTING SLURRY WITHIN THE IMPOUNDMENT TO BE DEWATERED IS SATURATED AND WILL ALSO REQUIRE THOROUGH DEWATERING BEFORE GRADING AND EXCAVATION. SPECIAL CARE SHALL BE TAKEN TO ENSURE SLURRY DOES NOT LEAVE THE CONSTRUCTION SITE. THIS WORK SHALL BE INCIDENTAL TO DEWATERING IMPOUNDMENTS.

LEGEND

- - - - - 370 - - - - - EXISTING CONTOUR
- --- --- PROPOSED CONSTRUCTION LIMITS
- - - - - SECTION LINE
- - - - - OVERHEAD ELECTRIC LINE
- - - - - EDGE OF WATER
- - - - - EXISTING ROAD, UNPAVED
- △ CONTROL POINT
- 52S ◆ BORING

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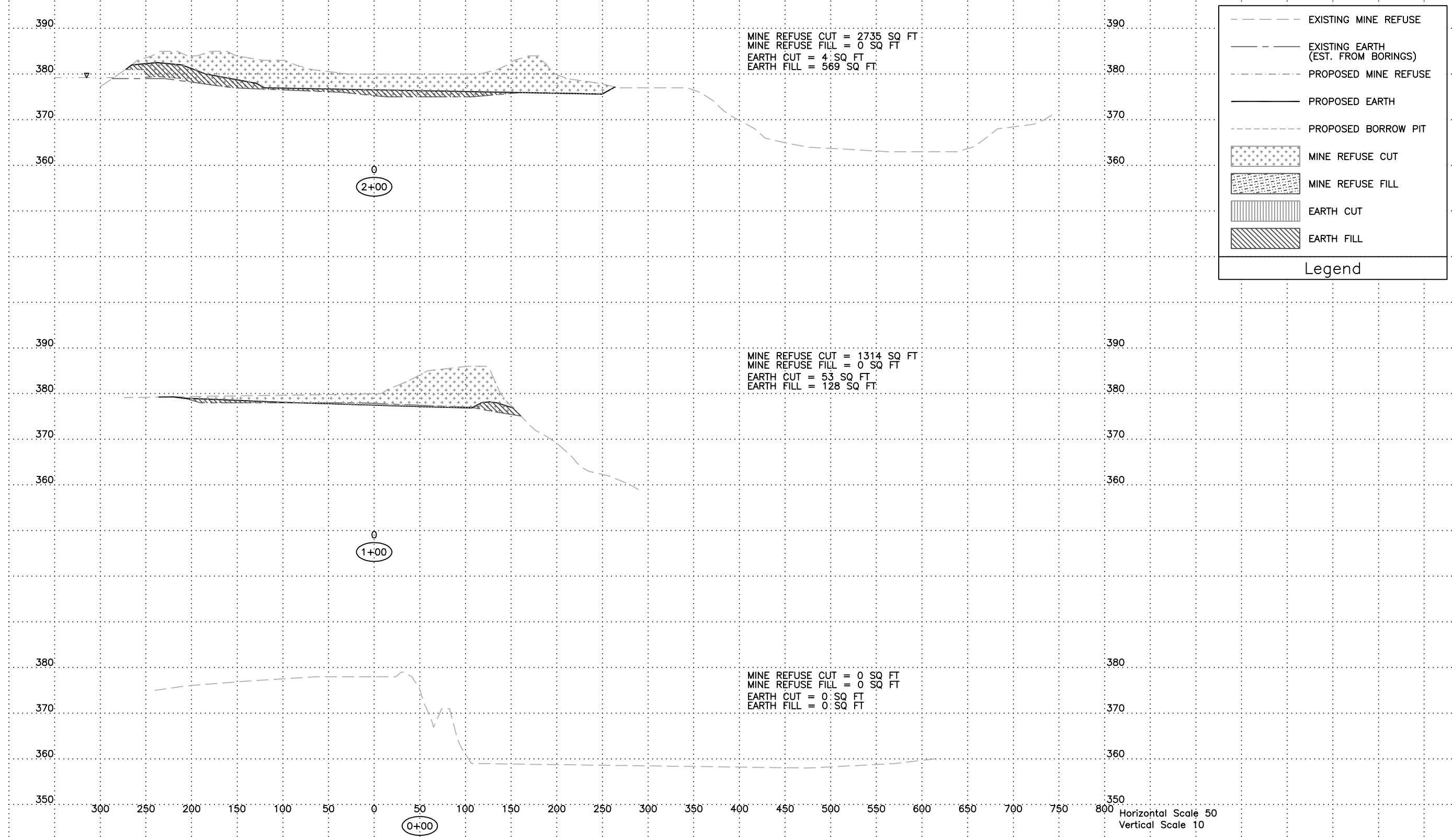
0' 100' 200' 300'
SCALE IN FEET

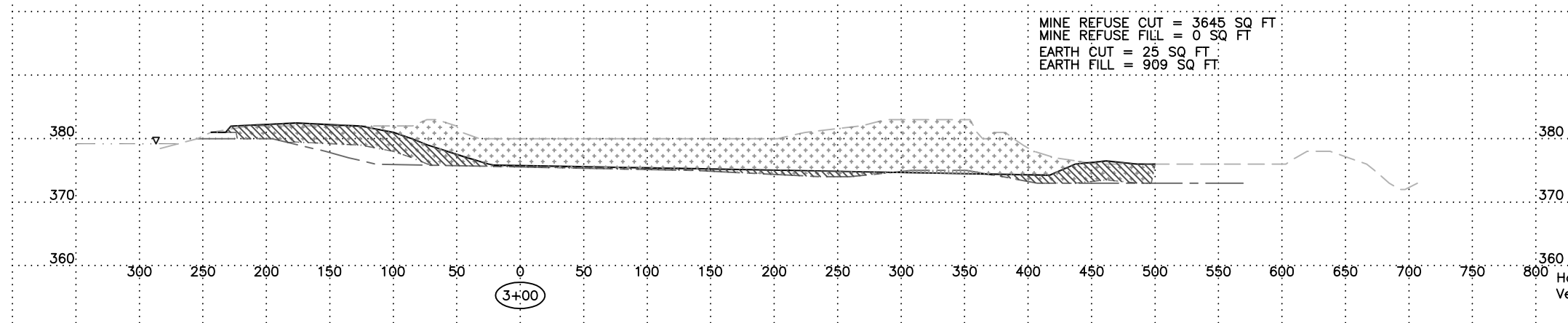
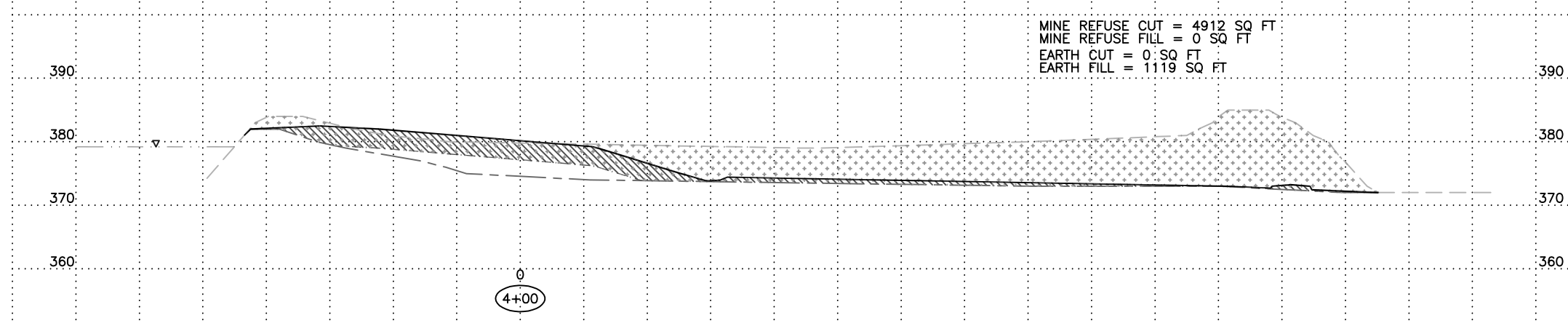
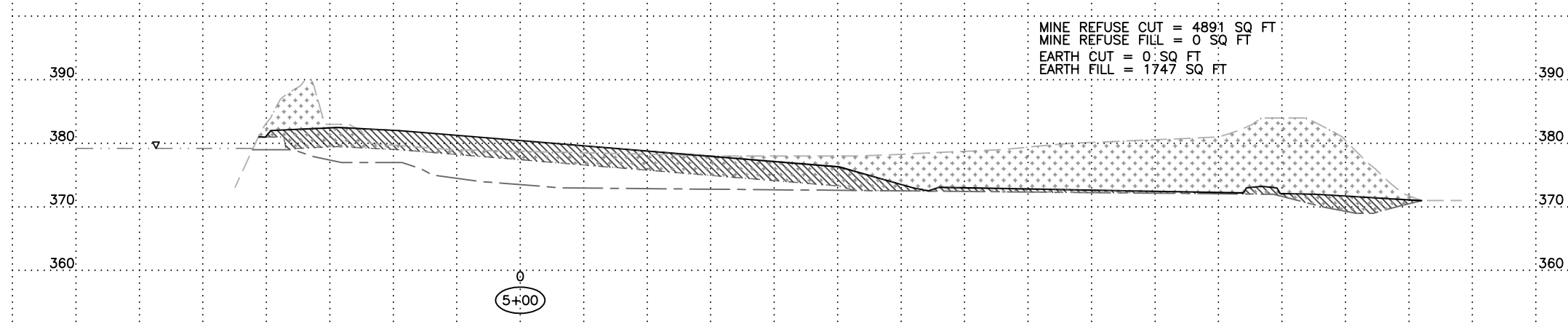
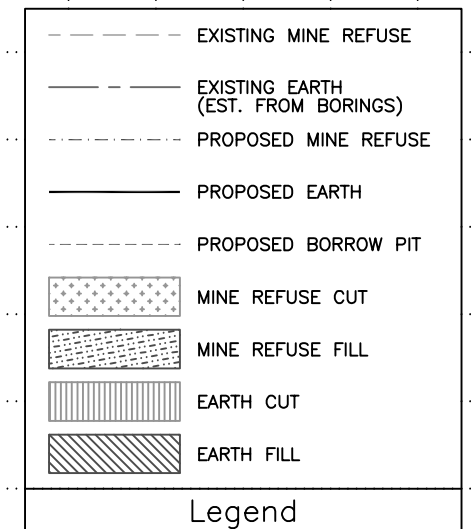
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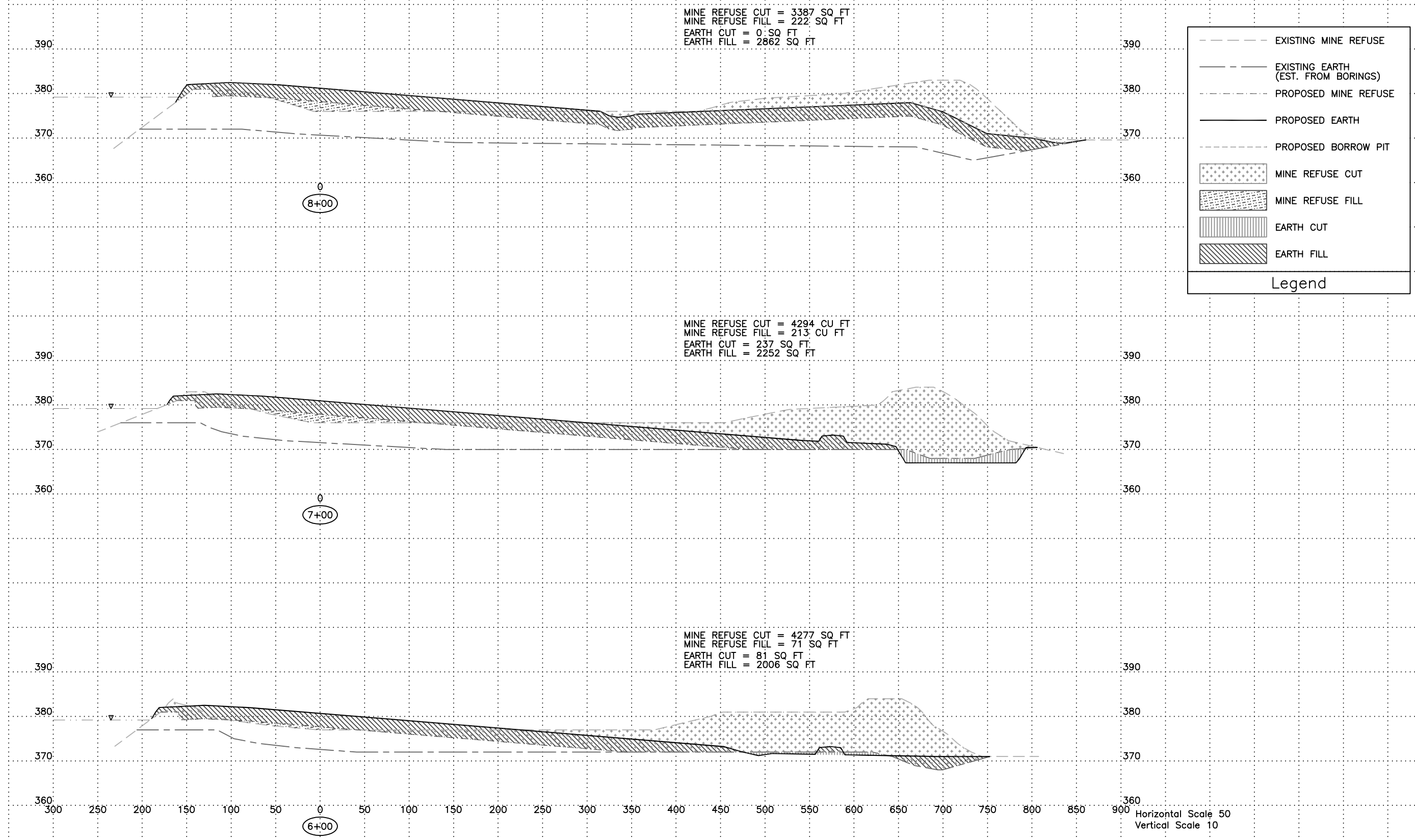
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Date: 01/28/2016
7/20/2017

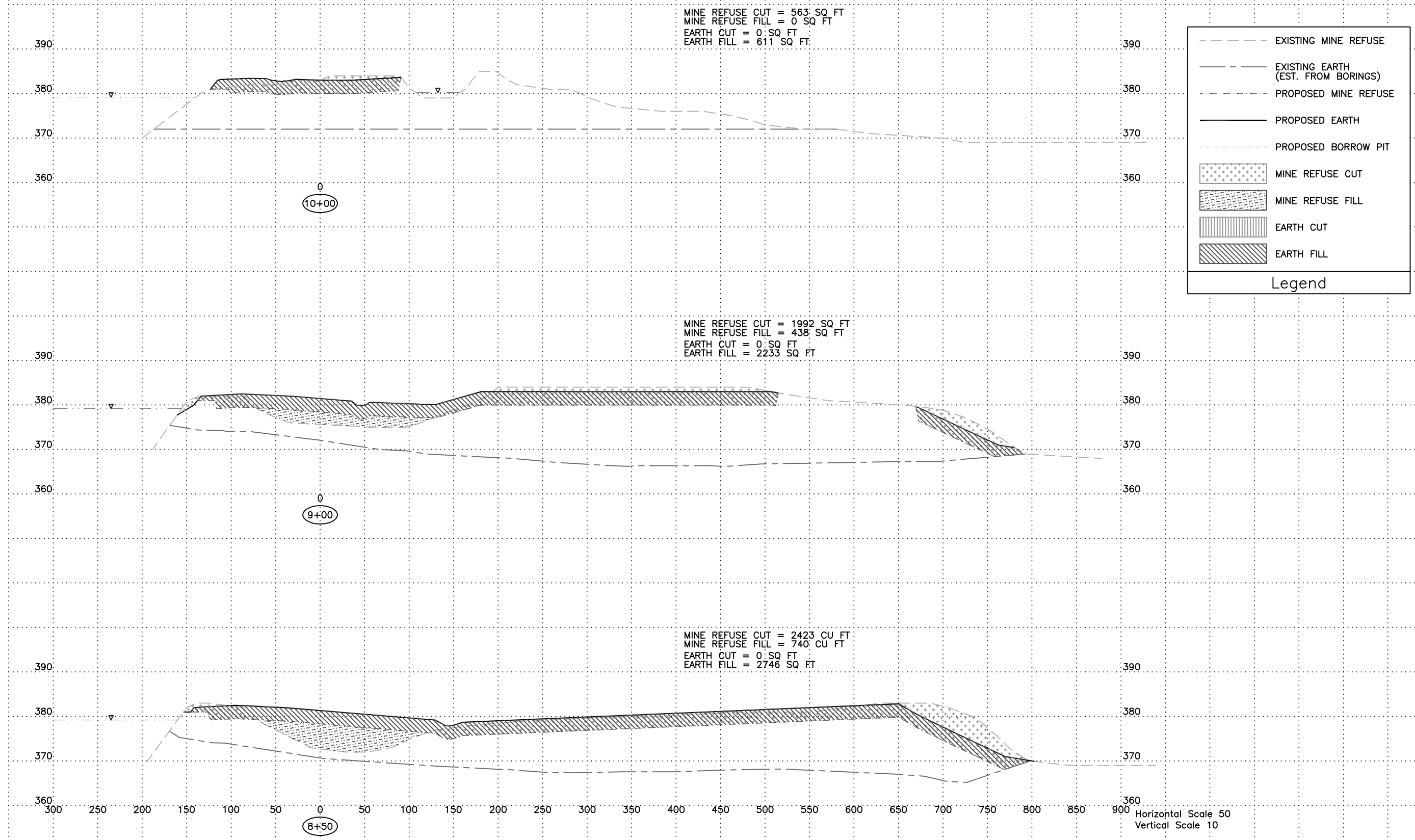
Existing Conditions
Sheet 4 of 15

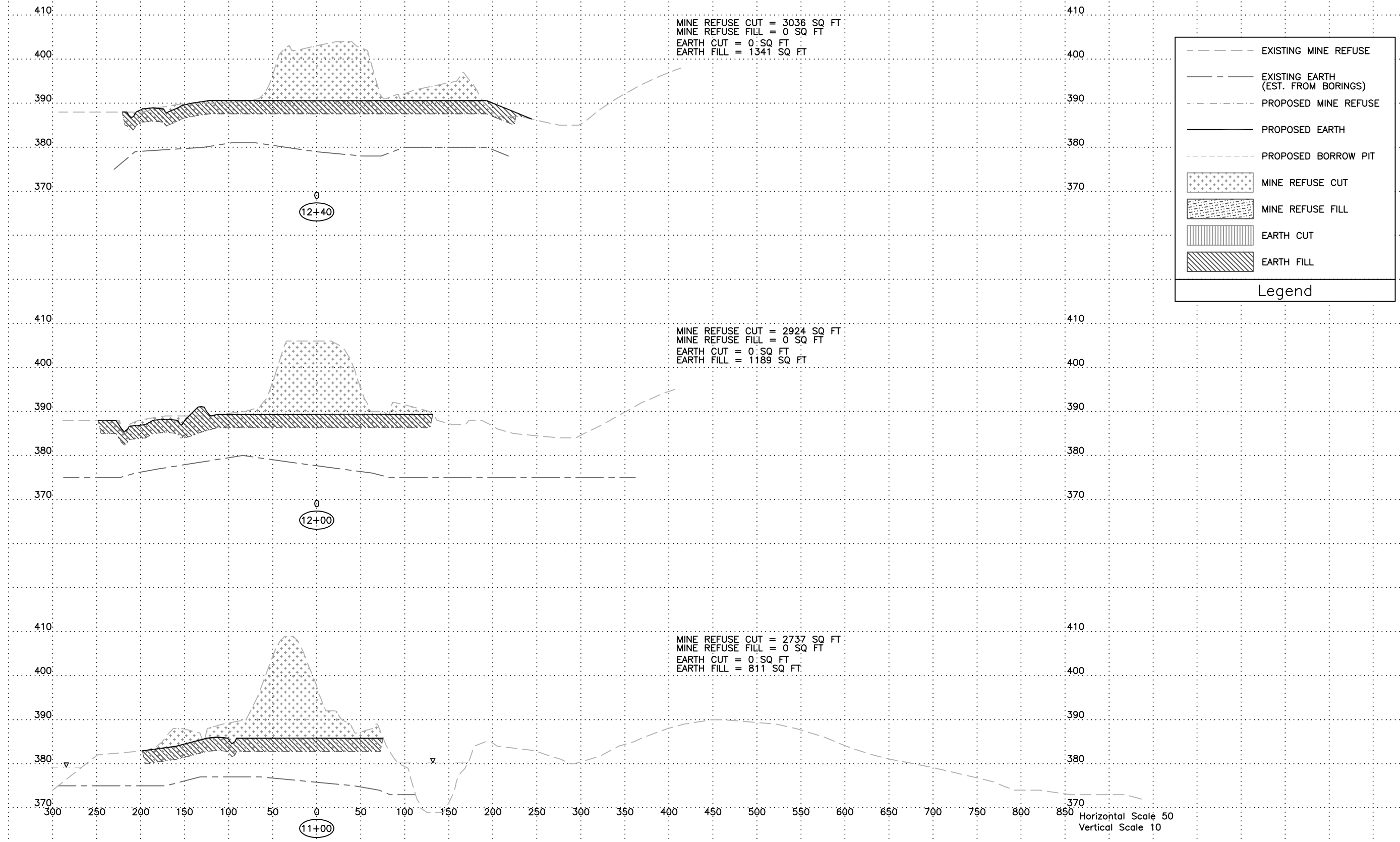


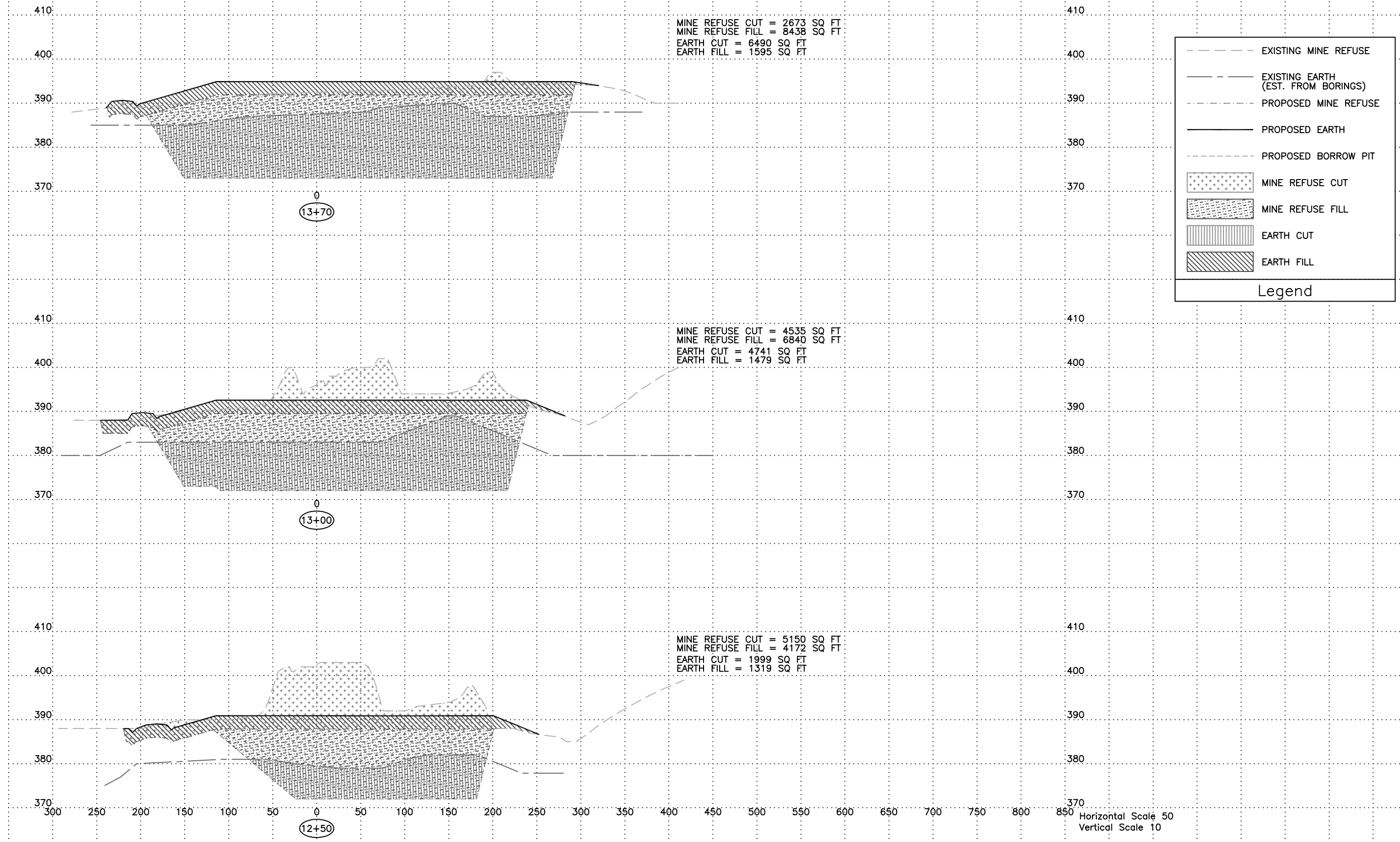


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 Vertical Scale 10

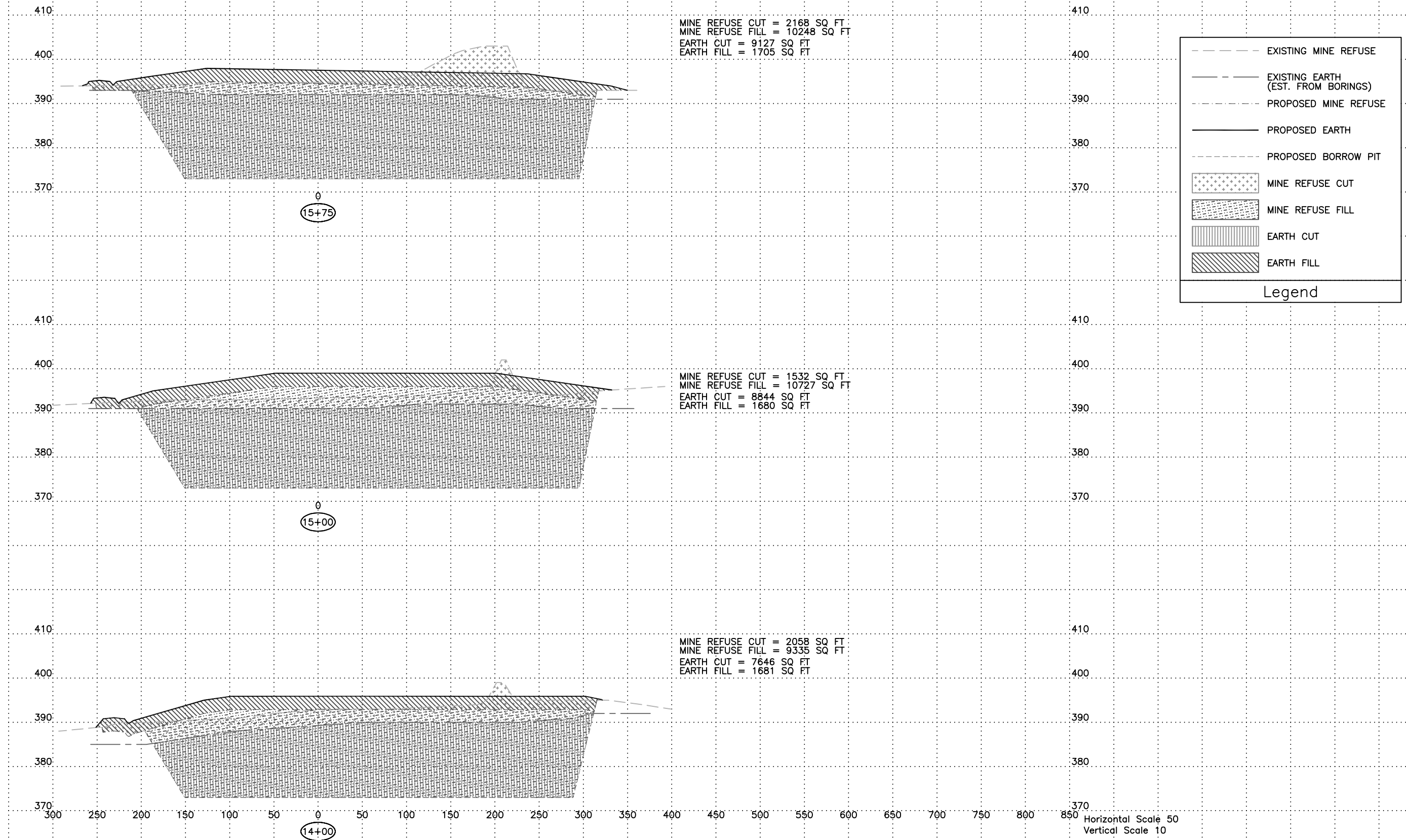


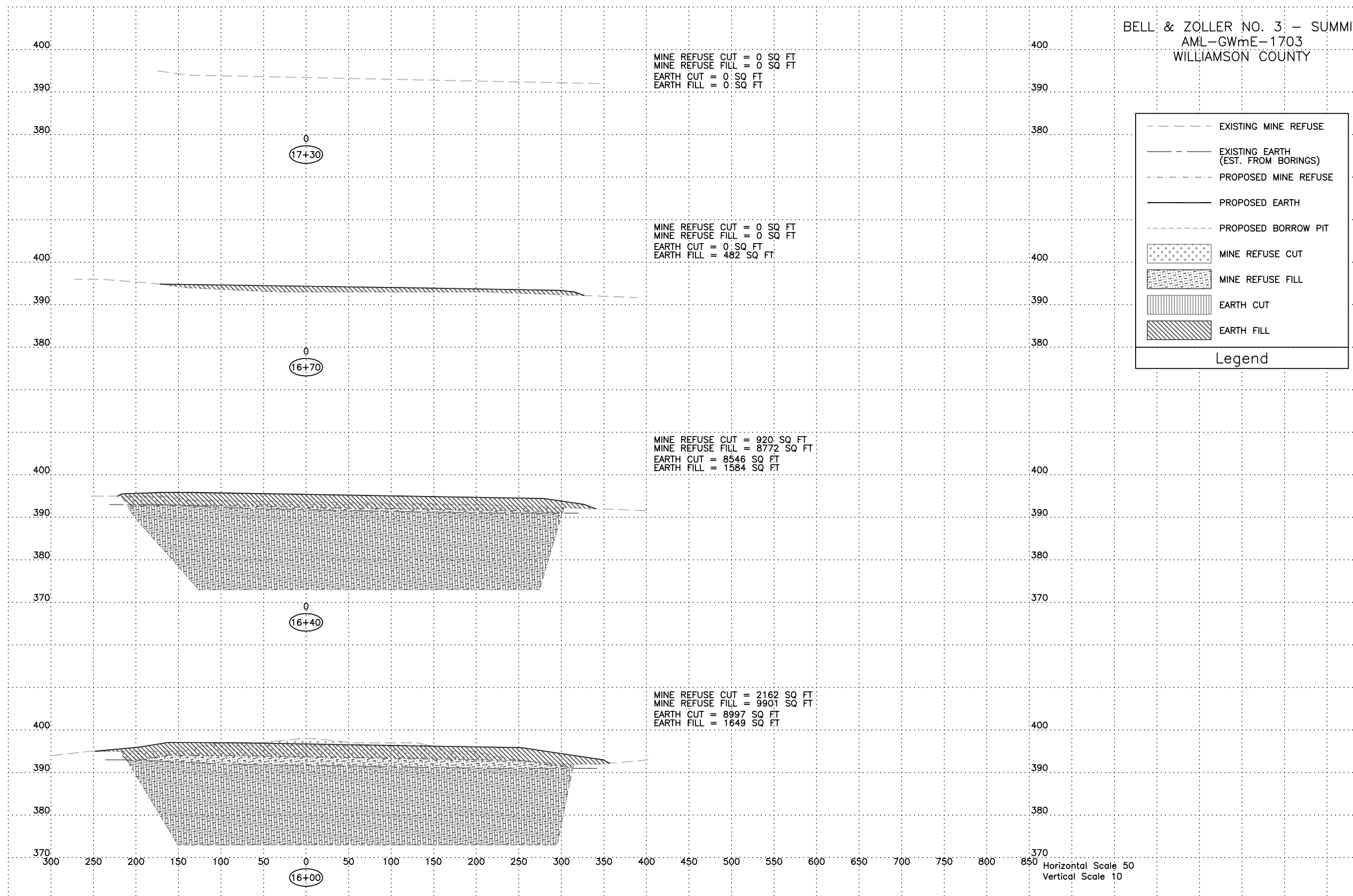




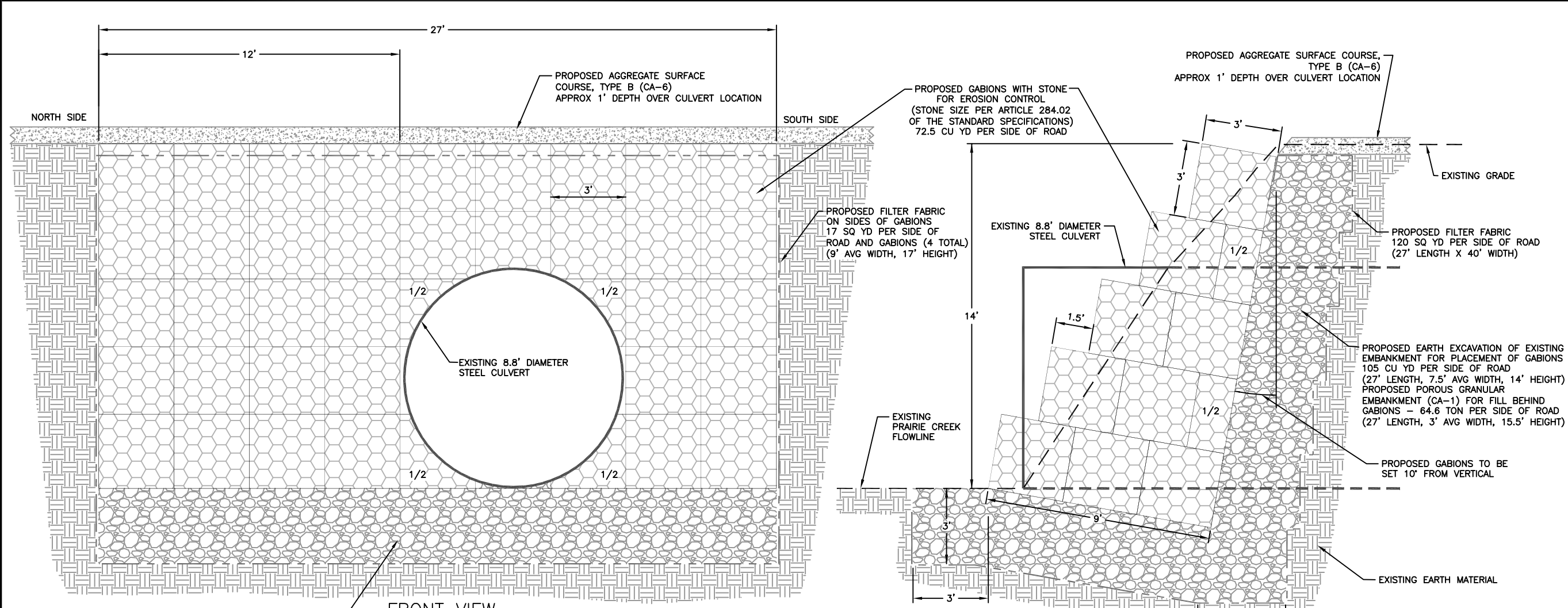


Horizontal Scale 50
 Vertical Scale 10





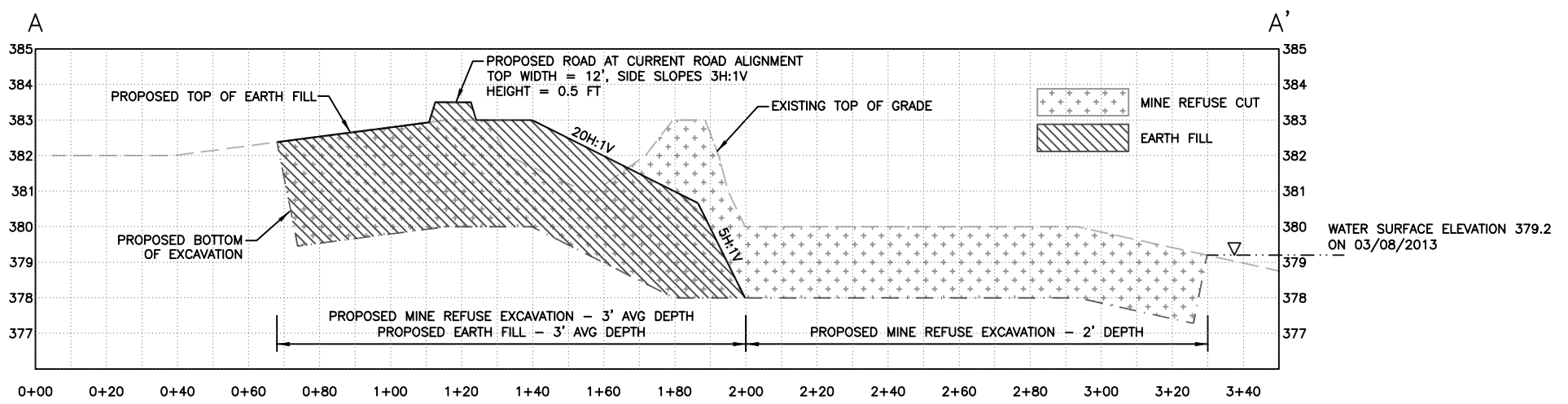
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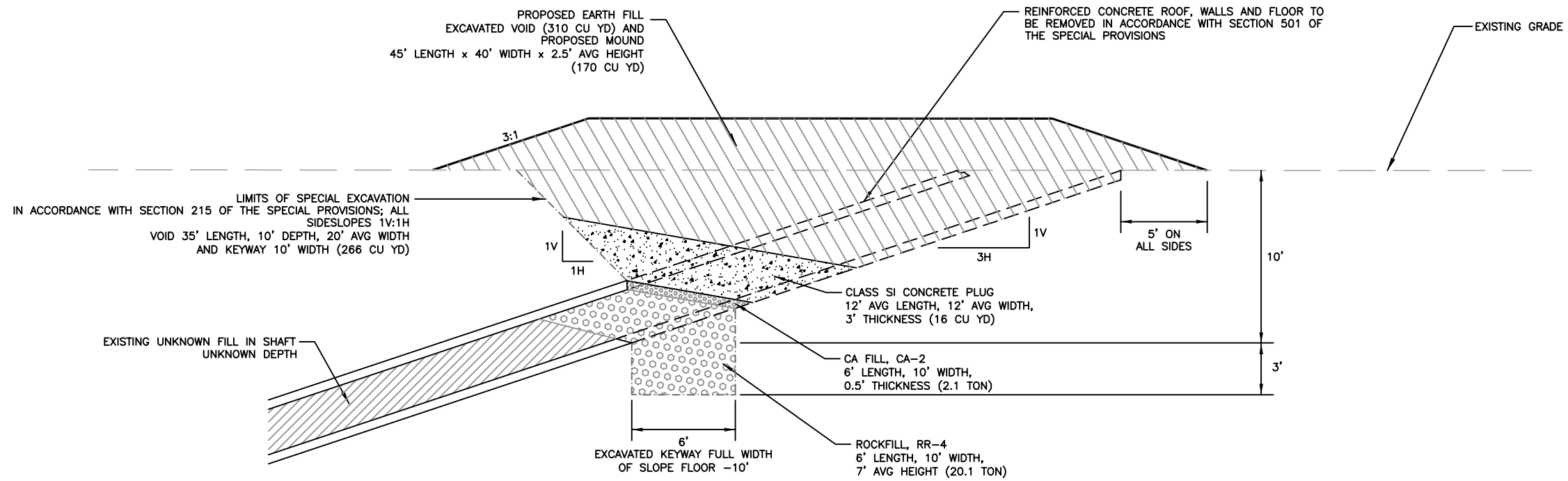


PROPOSED EARTH EXCAVATION AT BASE OF GABIONS
45 CU YD PER SIDE OF ROAD (27' LENGTH, 15' WIDTH, 3' DEPTH)
PROPOSED POROUS GRANULAR EMBANKMENT (CA-1)
AT BASE OF GABIONS AND 3' WIDTH UNDER CULVERT
62.6 TON PER SIDE OF ROAD (27' LENGTH, 15' WIDTH, 3' DEPTH)

- NOTES:**
- EXTREME CAUTION SHALL BE USED WHEN EXCAVATING THE EXISTING EARTH EMBANKMENT FOR PREPARATION OF THE GABION SITE DUE TO POSSIBILITY OF SLOPE FAILURES.
 - GABION BASKETS WITH STONE FOR EROSION CONTROL MEASURE 3' X 3' X 3' AND SHALL BE INSTALLED PER SECTION 284 OF THE STANDARD SPECIFICATIONS.
 - EXCAVATED EARTH MATERIAL MAY BE PLACED ON THE SURROUNDING SLOPES, USED FOR MAINTENANCE/REPAIR OF THE UNIMPROVED ACCESS ROAD OR HAULED TO THE MAIN SITE AS EARTH FILL.
 - ONSITE CONCRETE DEBRIS MAY BE USED AS EROSION PROTECTION ON SLOPES ADJACENT TO THE GABIONS.
 - FILTER FABRIC SHALL CONSIST OF NON-WOVEN GEOTEXTILE AND SHALL MEET THE MINIMUM CRITERIA OF ARTICLE 1080.03 OF THE STANDARD SPECIFICATIONS, GRADATION 6 & 7. FILTER FABRIC SHALL EXTEND 1' BEHIND THE TOP EDGE OF THE GABIONS.

A-14 GABION DETAIL
NOT TO SCALE



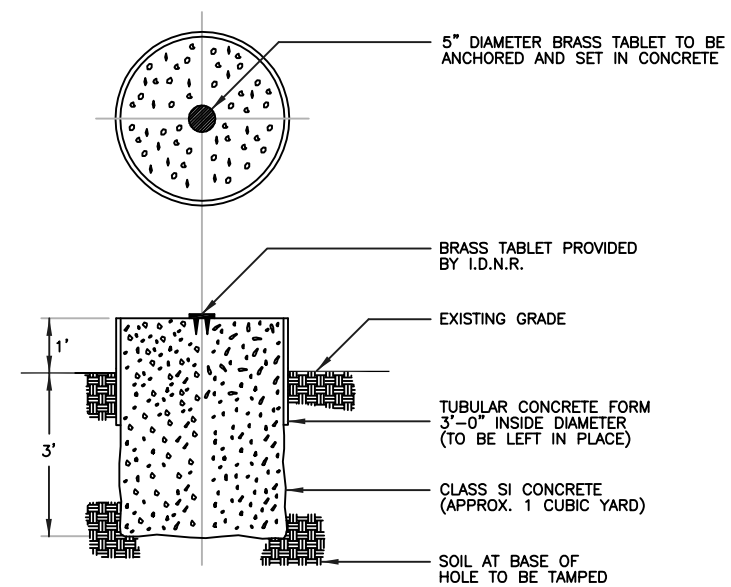


C-15 SLOPE ENTRY SEALING DETAIL

NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE SLOPE ENTRY AREA DUE THE UNKNOWN CONDITION OF THE SLOPE ENTRY AND THE UNKNOWN STABILITY OF THE SURROUNDING AREAS.
2. THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE VOLUME OF SPECIAL EXCAVATION AND BACKFILLING OF MATERIALS REQUIRED. THE ENGINEER WILL MAKE THE DETERMINATION DURING CONSTRUCTION BASED UPON THE CONDITIONS ENCOUNTERED DURING THE SPECIAL EXCAVATION PROCESS.



D-15 MINE OPENING MARKER DETAIL

NOT TO SCALE
EXACT LOCATION TO BE SET BY ENGINEER