

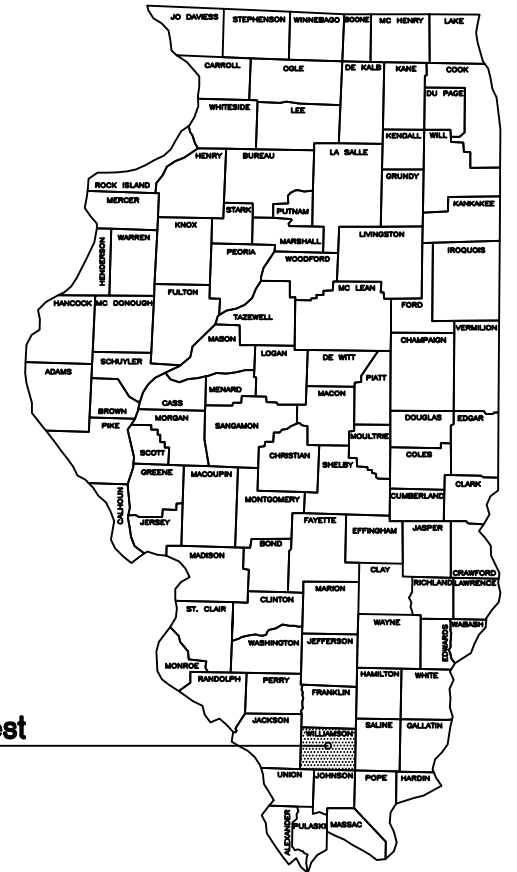
State of Illinois
Department of Natural Resources
 Office of Mines and Minerals
 Division of Abandoned Mined Lands

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

Equator and Peabody Utility West
 Reclamation Project
 AML-GWmE-1309
 Williamson County
 4LR

Certified Copy

Equator and Peabody Utility West
 Williamson County



PRE-BID MEETING


A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M. WEDNESDAY, JANUARY 8, 2014. ALL INTERESTED PARTIES ARE ENCOURAGED TO MEET AT THE PEABODY UTILITY WEST ACCESS ROAD ENTRANCE FROM LINCK ROAD (SEE SHEET 3 FOR LOCATION).

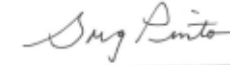
SCHEDULE OF DRAWINGS:

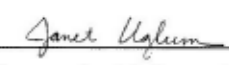
1. Cover Sheet
2. Summary of Quantities / General Notes / Location Map
3. Site Information
- 4.-5. Existing and Proposed Conditions - Equator Mine
- 6.-9. Existing Conditions - Peabody Utility West
- 10.-13. Proposed Conditions - Peabody Utility West
- 14.-21. Cross Sections
- 22.-26. Details

CONTRACT NO. M1309

Prepared By IDNR Staff

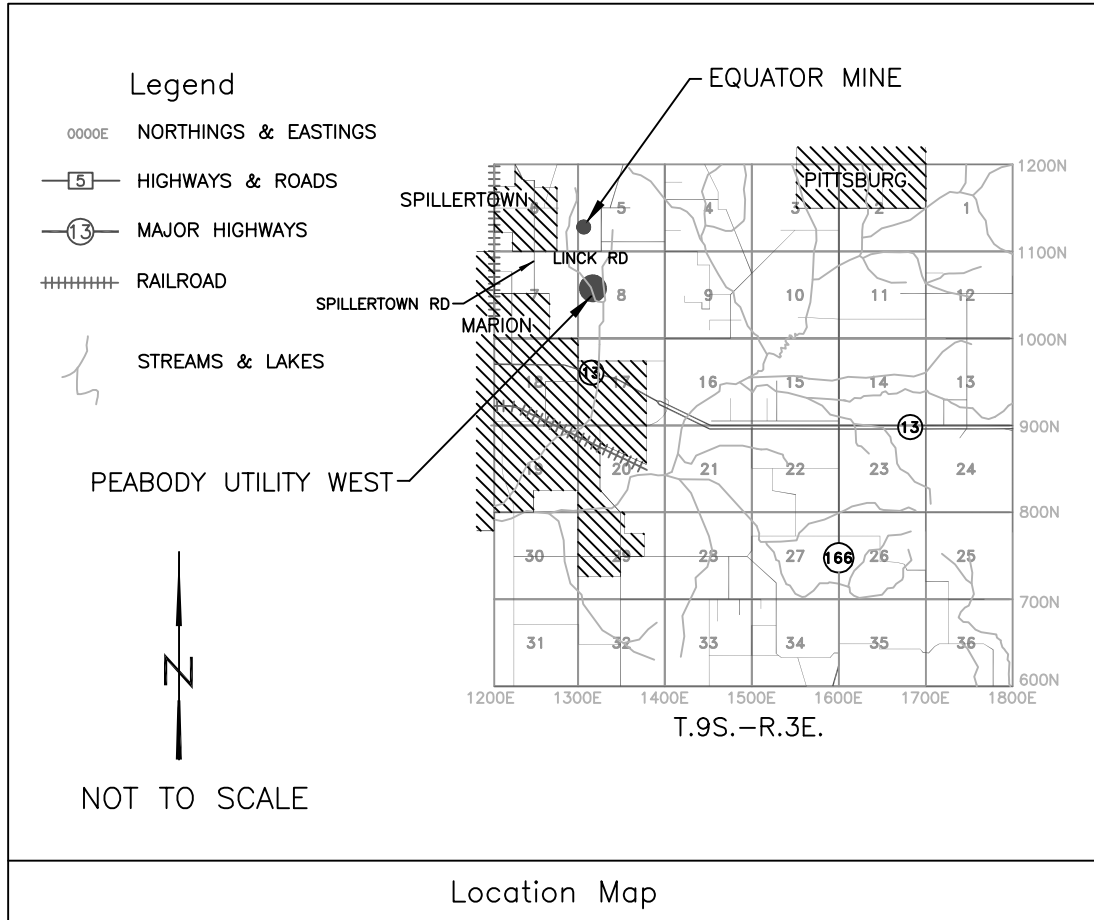
Approved for Bidding:

 Michael L. Woods, Director
 Office of Mines and Minerals

Approved By:

 Greg Pinto, Acting Manager
 AML Division

Approved By:

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



| Summary of Quantities | | | | | | | | |
|-----------------------|----|--|----------|----------|---------|---------|-------|--|
| Item No. | # | Item | Section | Quantity | | | Unit | Rates/Remarks |
| | | | | EQUATOR | P.U.W. | TOTAL | | |
| NRM20110 | 1 | Special Clearing | 201 | 0.1 | 0.9 | 1 | L SUM | |
| NRM20210 | 2 | Earth Excavation | 202 | 5,935 | 84,494 | 90,429 | CU YD | |
| NRM20230 | 3 | Mine Refuse Excavation | 202 | - | 1,852 | 1,852 | CU YD | COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS |
| NRM21510 | 4 | Special Excavation | 215 | 1,799 | - | 1,799 | CU YD | |
| NRM21610 | 5 | Filter Fabric for use with Riprap Fill | 216 | 405 | - | 405 | SQ YD | |
| NRM21621 | 6 | CA Fill, CA-1 | 216 | 705.2 | - | 705.2 | TON | |
| NRM21634 | 7 | Riprap Fill, A-4 | 216 | 667.5 | - | 667.5 | TON | |
| NRM21644 | 8 | Rock Fill, RR-4 | 216 | 53.0 | - | 53.0 | TON | |
| NRM25040 | 9 | Nitrogen Fertilizer Nutrient | 250 | 940 | 6,800 | 7,740 | POUND | 100 LB/ACRE-TWICE |
| NRM25050 | 10 | Phosphorus Fertilizer Nutrient | 250 | 705 | 5,100 | 5,805 | POUND | 150 LB/ACRE |
| NRM25060 | 11 | Potassium Fertilizer Nutrient | 250 | 1,410 | 10,200 | 11,610 | POUND | 300 LB/ACRE |
| NRM25070 | 12 | Agricultural Ground Limestone | 250 | 23.5 | 170.0 | 193.5 | TON | 5 TON/ACRE |
| NRM25090 | 13 | Seeding | 250 | 4.7 | 34.0 | 38.7 | ACRE | |
| 25100115 | 14 | Mulch, Method 2, Procedure 1 | IDOT 251 | 4.7 | 34.0 | 38.7 | ACRE | 2 TON/ACRE |
| NRM25310 | 15 | Seedlings, 2-Year Old, Bare Root | 253 | - | 18.0 | 18.0 | UNIT | |
| NRM25610 | 16 | Incorporation - Limestone | 256 | - | 43.0 | 43.0 | TON | 25 TON/ACRE PER 8" LIFT |
| NRM25810 | 17 | Mowing | 258 | 4.7 | 34.0 | 38.7 | ACRE | |
| NRM28040 | 18 | Perimeter Erosion Barrier | 280 | 110 | 950 | 1,060 | FOOT | |
| 28100205 | 19 | Stone Riprap, Class A3 | IDOT 281 | 43.0 | 1,054.3 | 1,097.3 | TON | |
| 28100207 | 20 | Stone Riprap, Class A4 | IDOT 281 | - | 1,891.3 | 1,891.3 | TON | |
| 28100807 | 21 | Stone Dumped Riprap, Class A4 | IDOT 281 | - | 414.1 | 414.1 | TON | |
| 28200200 | 22 | Filter Fabric | IDOT 282 | - | 3,624 | 3,624 | SQ YD | |
| NRM28610 | 23 | Special Excelsior Blanket | 286 | - | 5,986 | 5,986 | SQ YD | 8' WIDTH |
| 40200800 | 24 | Aggregate Surface Course, Type B | IDOT 402 | 20.0 | 20.0 | 40.0 | TON | CA-6 AND CA-1 |
| 542C0223 | 25 | Pipe Culverts, Class C, Type 1 18" | IDOT 542 | 30 | - | 30 | FOOT | POLYETHYLENE PIPE |
| 542C0229 | 26 | Pipe Culverts, Class C, Type 1 24" | IDOT 542 | 30 | - | 30 | FOOT | W/ SMOOTH INTERIOR |
| 542C1055 | 27 | Pipe Culverts, Class C, Type 2 10" | IDOT 542 | 150 | - | 150 | FOOT | PVC, SDR 35 |
| 54210181 | 28 | Pipe Elbow, 10" | IDOT 542 | 2 | - | 2 | EACH | 45 DEGREE, PVC |
| 542C0211 | 29 | Pipe Culverts, Class C, Type 1 6" | IDOT 542 | 13 | - | 13 | FOOT | PVC |
| 54210180 | 30 | Pipe Elbow, 6" | IDOT 542 | 2 | - | 2 | EACH | 45 DEGREE, PVC |
| NRMX5421 | 31 | Pipe Wye, 10" Pipe - 6" Branch | IDOT 542 | 2 | - | 2 | EACH | PVC |
| NRM61410 | 32 | Dewatering Impoundments | 614 | - | 1 | 1 | L SUM | |
| 66500105 | 33 | Woven Wire Fence, 4' | IDOT 665 | 180 | - | 180 | FOOT | |
| NRM66610 | 34 | Mine Opening Marker | 666 | 3 | - | 3 | EACH | |
| NRM67110 | 35 | Mobilization (Max. 6% of Bid) | 671 | 0.2 | 0.8 | 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. Access roads to the site as designated on 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 foot below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 of the Special Provisions.

TREE REMOVAL-Trees cleared from the sites shall be disposed of onsite per Section 201 of the Special Provisions. Clearing of trees may only occur from October 17th to March 31st. Therefore clearing of all trees at both the Equator and the Peabody Utility West sites must be completed before March 31st, 2014.

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 and Mulch | | | | | | |
|---|---|--------|--|--------|--|----------------|
| ITEM (unit) | INITIAL APPLICATION FALL 2014 AUG 20 - SEPT 30 | | SECOND APPLICATION SPRING 2015 JAN 1 - MARCH 15 | | MOWING | TOTAL QUANTITY |
| | EQUATOR | P.U.W. | EQUATOR | P.U.W. | | |
| SEEDING (acres) | 4.7 | 34.0 | | | BOTH SITES EXACT DATE TO BE SET BY ENGINEER | 38.7 |
| NITROGEN FERTILIZER NUTRIENT (pounds) | 470 | 3,400 | 470 | 3,400 | | 7,740 |
| PHOSPHOROUS FERTILIZER NUTRIENT (pounds) | 705 | 5,100 | | | | 5,805 |
| POTASSIUM FERTILIZER NUTRIENT (pounds) | 1,410 | 10,200 | | | | 11,610 |
| AGRICULTURAL GROUND LIMESTONE (tons) | 23.5 | 170.0 | | | | 193.5 |
| MULCH, METHOD 2 PROCEDURE 1 (acres) | 4.7 | 34.0 | | | | 38.7 |
| MOWING (acres) | | | | | 38.7 | 38.7 |

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Department of Natural Resources

Equator and Peabody Utility
West Reclamation Project
AML-GWmE-1309
Williamson County

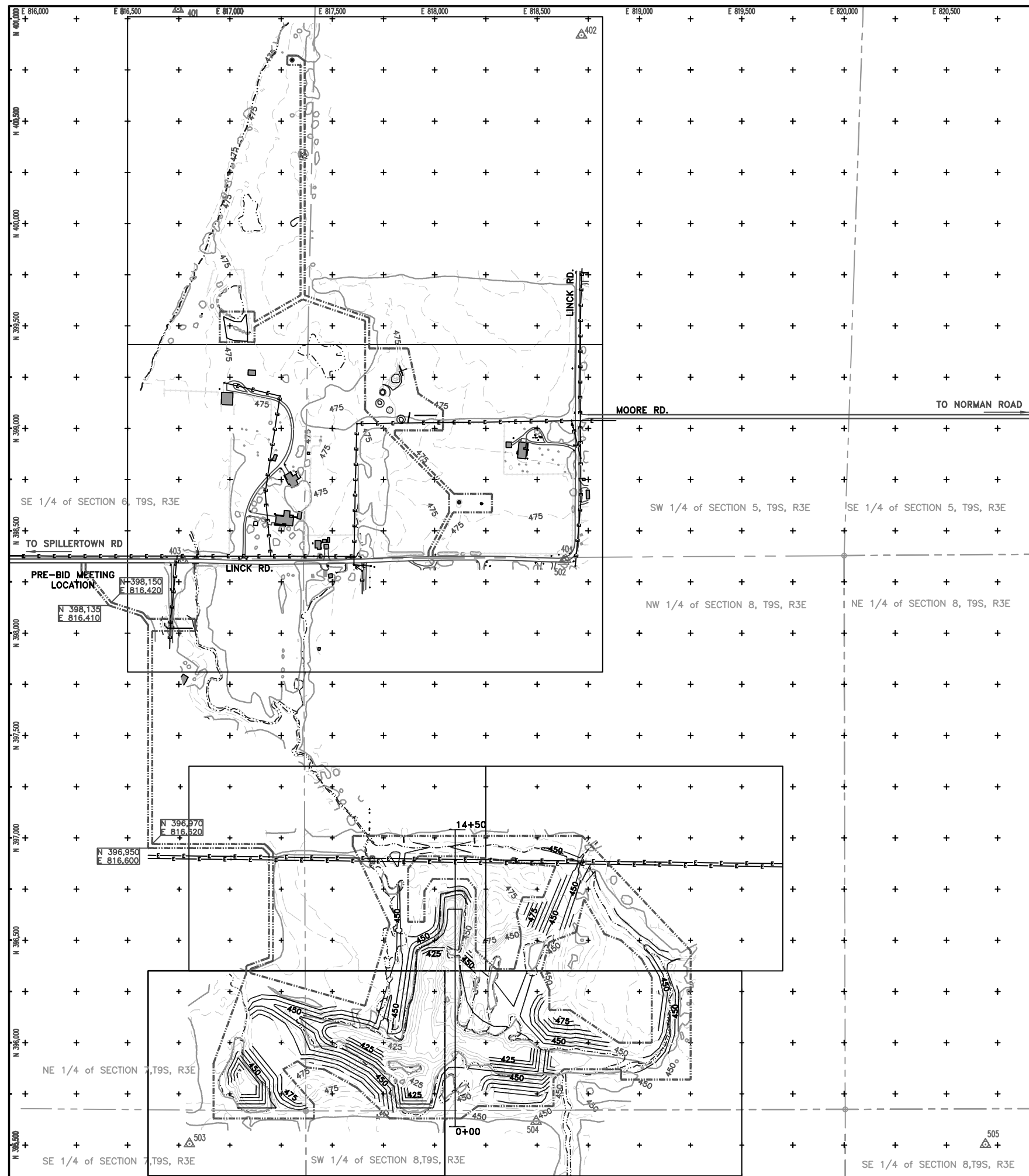
Date: 12/19/2013

Drawn By: JLU

Checked By: _____

Summary of Quantities/
General Notes/Location Map

Sheet 2 of 26

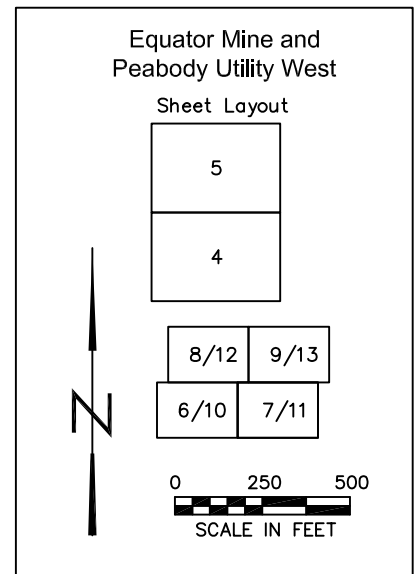


| CONTROL POINT INFORMATION | | | | |
|---------------------------|------------|------------|-----------|---------------|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 401 | 401,047.35 | 816,746.32 | 492.27 | MAGNETIC NAIL |
| 402 | 400,919.95 | 818,716.98 | 500.68 | MAGNETIC NAIL |
| 403 | 398,356.68 | 816,770.56 | 463.35 | MAGNETIC NAIL |
| 404 | 398,358.20 | 818,639.92 | 469.77 | MAGNETIC NAIL |
| 502 | 398,350.65 | 818,629.09 | 469.59 | MAGNETIC NAIL |
| 503 | 395,505.55 | 816,802.10 | 459.09 | MAGNETIC NAIL |
| 504 | 395,614.97 | 818,495.58 | 446.54 | HUB |
| 505 | 395,503.22 | 820,690.57 | 490.03 | MAGNETIC NAIL |

| BASELINE INFORMATION | | |
|----------------------|----------|---------|
| STATION | NORTHING | EASTING |
| 0+00 | 395,590 | 818,100 |
| 14+50 | 397,040 | 818,100 |

| | | |
|--|-----|--|
| | 450 | EXISTING CONTOUR (5' INTERVAL) |
| | 450 | PROPOSED CONTOUR (5' INTERVAL) |
| | | BASELINE FOR CROSS SECTIONS |
| | | CONSTRUCTION LIMITS (PROPOSED CONDITIONS ONLY) |
| | | TREE LINE |
| | | SECTION LINE |
| | | OVERHEAD ELECTRIC LINE |
| | | EDGE OF WATER |
| | | SHEET BORDER |
| | | EXISTING ROAD, UNPAVED |
| | | CONTROL POINT |
| | | EXISTING STRUCTURE |

Legend



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Department of Natural Resources

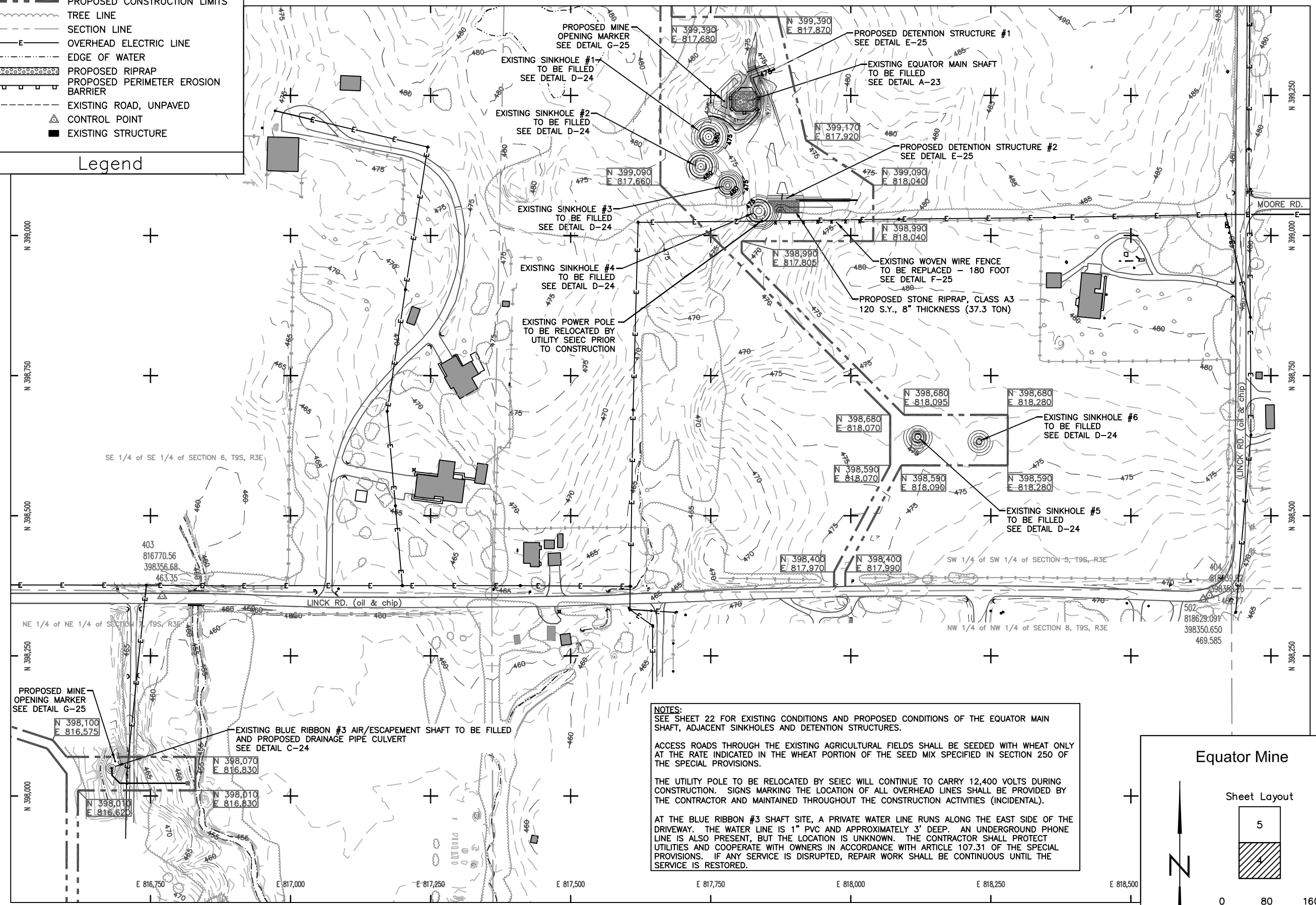
Equator and Peabody Utility
West Reclamation Project
AML-GWmE-1309
Williamson County

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Checked By: _____
Date: 12/2/2013

Site Information
Sheet
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- 450 --- EXISTING CONTOUR
- 450 — PROPOSED CONTOUR
- — — PROPOSED CONSTRUCTION LIMITS
- ~ ~ ~ TREE LINE
- - - SECTION LINE
- E — OVERHEAD ELECTRIC LINE
- - - EDGE OF WATER
- ▨ PROPOSED RIPRAP
- ▩ PROPOSED PERIMETER EROSION BARRIER
- - - EXISTING ROAD, UNPAVED
- △ CONTROL POINT
- EXISTING STRUCTURE

Legend



SE 1/4 of SE 1/4 of SECTION 6, T9S, R3E

SW 1/4 of SW 1/4 of SECTION 5, T9S, R3E

NE 1/4 of NE 1/4 of SECTION 7, T9S, R3E

NW 1/4 of NW 1/4 of SECTION 8, T9S, R3E

MOORE RD.

LINCK RD. (oil & chip)

403
816770.56
398356.68
463.35

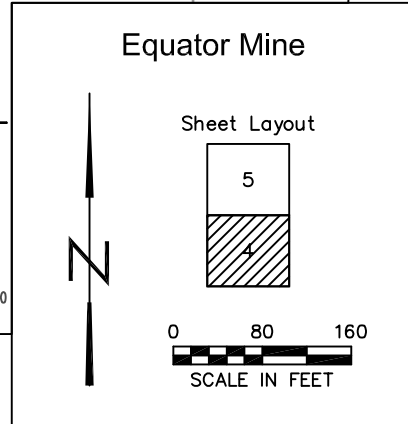
502
818629.091
398350.650
469.585

NOTES:
SEE SHEET 22 FOR EXISTING CONDITIONS AND PROPOSED CONDITIONS OF THE EQUATOR MAIN SHAFT, ADJACENT SINKHOLES AND DETENTION STRUCTURES.

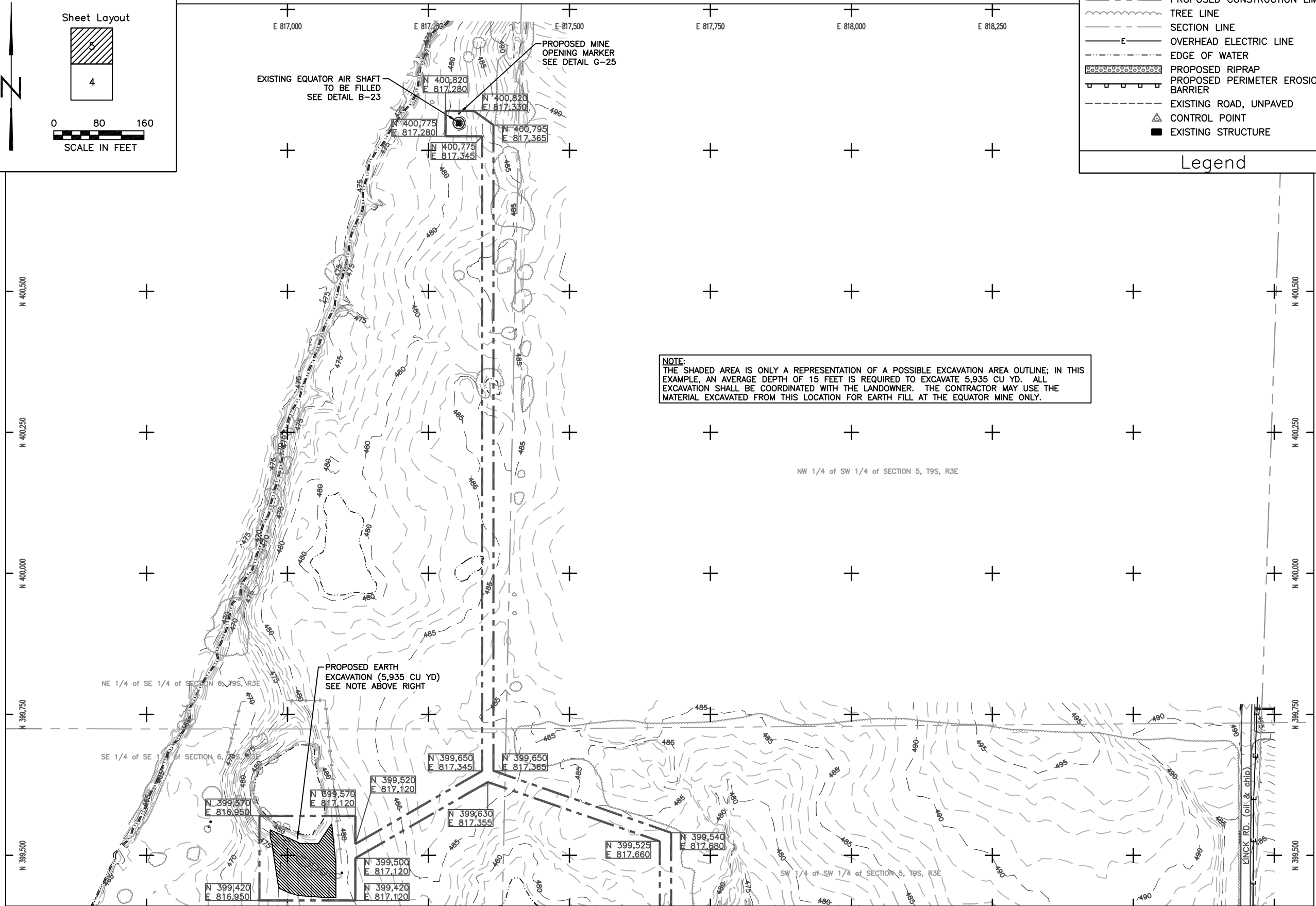
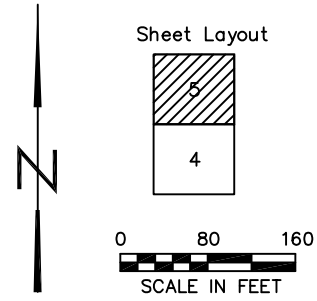
ACCESS ROADS THROUGH THE EXISTING AGRICULTURAL FIELDS SHALL BE SEEDDED WITH WHEAT ONLY AT THE RATE INDICATED IN THE WHEAT PORTION OF THE SEED MIX SPECIFIED IN SECTION 250 OF THE SPECIAL PROVISIONS.

THE UTILITY POLE TO BE RELOCATED BY SEIEC WILL CONTINUE TO CARRY 12,400 VOLTS DURING CONSTRUCTION. SIGNS MARKING THE LOCATION OF ALL OVERHEAD LINES SHALL BE PROVIDED BY THE CONTRACTOR AND MAINTAINED THROUGHOUT THE CONSTRUCTION ACTIVITIES (INCIDENTAL).

AT THE BLUE RIBBON #3 SHAFT SITE, A PRIVATE WATER LINE RUNS ALONG THE EAST SIDE OF THE DRIVEWAY. THE WATER LINE IS 1" PVC AND APPROXIMATELY 3' DEEP. AN UNDERGROUND PHONE LINE IS ALSO PRESENT, BUT THE LOCATION IS UNKNOWN. THE CONTRACTOR SHALL PROTECT UTILITIES AND COOPERATE WITH OWNERS IN ACCORDANCE WITH ARTICLE 107.31 OF THE SPECIAL PROVISIONS. IF ANY SERVICE IS DISRUPTED, REPAIR WORK SHALL BE CONTINUOUS UNTIL THE SERVICE IS RESTORED.



Equator Mine



| | | |
|--|-----|------------------------------------|
| | 450 | EXISTING CONTOUR |
| | 450 | PROPOSED CONTOUR |
| | | PROPOSED CONSTRUCTION LIMITS |
| | | TREE LINE |
| | | SECTION LINE |
| | | OVERHEAD ELECTRIC LINE |
| | | EDGE OF WATER |
| | | PROPOSED RIPRAP |
| | | PROPOSED PERIMETER EROSION BARRIER |
| | | EXISTING ROAD, UNPAVED |
| | | CONTROL POINT |
| | | EXISTING STRUCTURE |

Legend

NOTE:
THE SHADED AREA IS ONLY A REPRESENTATION OF A POSSIBLE EXCAVATION AREA OUTLINE; IN THIS EXAMPLE, AN AVERAGE DEPTH OF 15 FEET IS REQUIRED TO EXCAVATE 5,935 CU YD. ALL EXCAVATION SHALL BE COORDINATED WITH THE LANDOWNER. THE CONTRACTOR MAY USE THE MATERIAL EXCAVATED FROM THIS LOCATION FOR EARTH FILL AT THE EQUATOR MINE ONLY.

NW 1/4 of SW 1/4 of SECTION 5, T9S, R3E

NE 1/4 of SE 1/4 of SECTION 6, T9S, R3E

SE 1/4 of SE 1/4 of SECTION 6, T9S, R3E

PROPOSED EARTH EXCAVATION (5,935 CU YD) SEE NOTE ABOVE RIGHT

State of Illinois
Department of Natural Resources

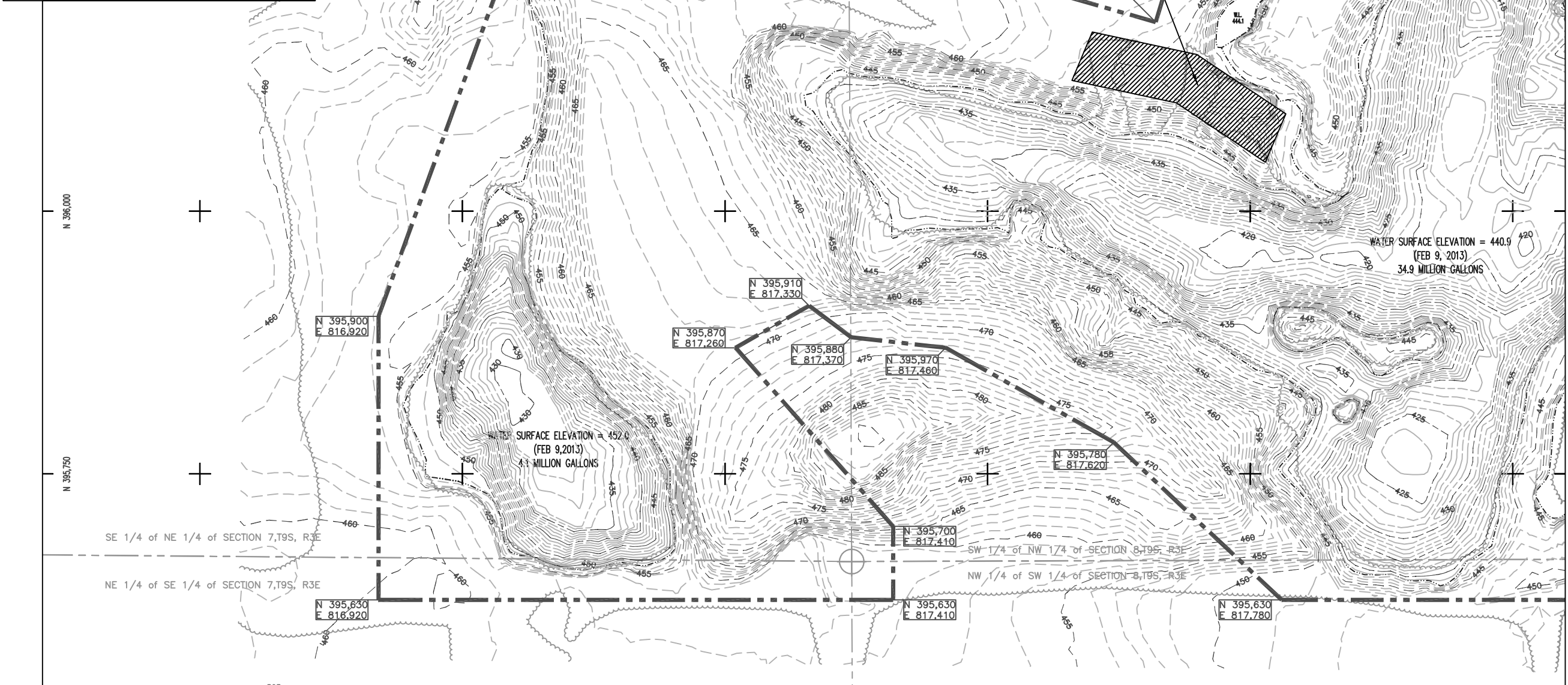
Equator and Peabody Utility
West Reclamation Project
AML-GWmE-1309
Williamson County

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Checked By:

Existing and Proposed Conditions
Equator Mine
Sheet
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Legend

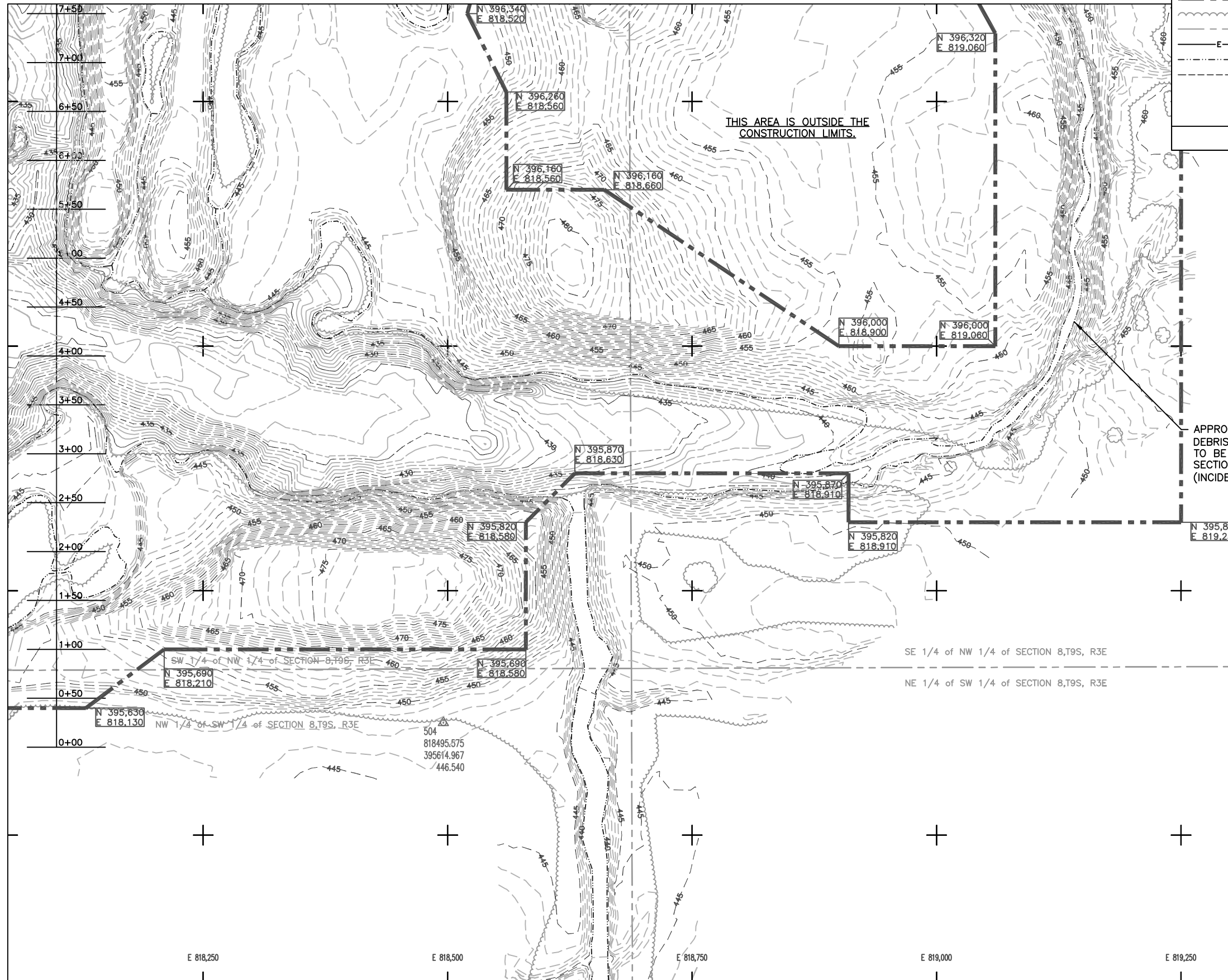
- 450 --- EXISTING CONTOUR
- BASELINE FOR CROSS SECTIONS
- — — PROPOSED CONSTRUCTION LIMITS
- ~ TREE LINE
- SECTION LINE
- E — OVERHEAD ELECTRIC LINE
- - - EDGE OF WATER
- - - EXISTING ROAD, UNPAVED
- △ CONTROL POINT
- EXISTING STRUCTURE



503
816802.098
395505.550
△ 459.090

NOTE:
THE 1,852 CU YD EXCAVATED AS MINE REFUSE EXCAVATION SHALL BE PLACED WITHIN THE PROPOSED FILL AT THE NORTH END OF THE MAIN IMPOUNDMENT BETWEEN CROSS SECTION STATIONS 9+00 AND 11+00 AND BETWEEN ELEVATIONS OF 432.0 AND 436.0. THE MATERIAL SHALL BE PLACED IN 8" LIFTS AND TREATED WITH LIMESTONE AS INCORPORATION - LIMESTONE AT A RATE OF 25.0 TONS/ACRE (43.0 TON).





- - - 450 - - - EXISTING CONTOUR
 ——— BASELINE FOR CROSS SECTIONS
 - - - - - PROPOSED CONSTRUCTION LIMITS
 - - - - - TREE LINE
 - - - - - SECTION LINE
 ——— OVERHEAD ELECTRIC LINE
 - - - - - EDGE OF WATER
 - - - - - EXISTING ROAD, UNPAVED
 ▲ CONTROL POINT
 ■ EXISTING STRUCTURE

Legend

APPROXIMATE LOCATION OF EXISTING DEBRIS (3 ERODED CULVERTS); TO BE REMOVED IN ACCORDANCE WITH SECTION 201 OF THE SPECIAL PROVISIONS (INCIDENTAL TO SPECIAL CLEARING)

Peabody Utility West

Sheet Layout

| | |
|---|---|
| 8 | 9 |
| 6 | 7 |

0 50 100
SCALE IN FEET

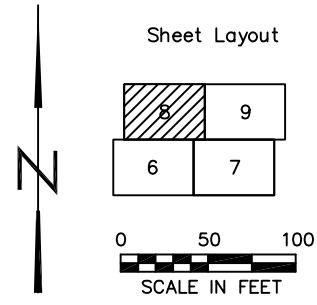
State of Illinois
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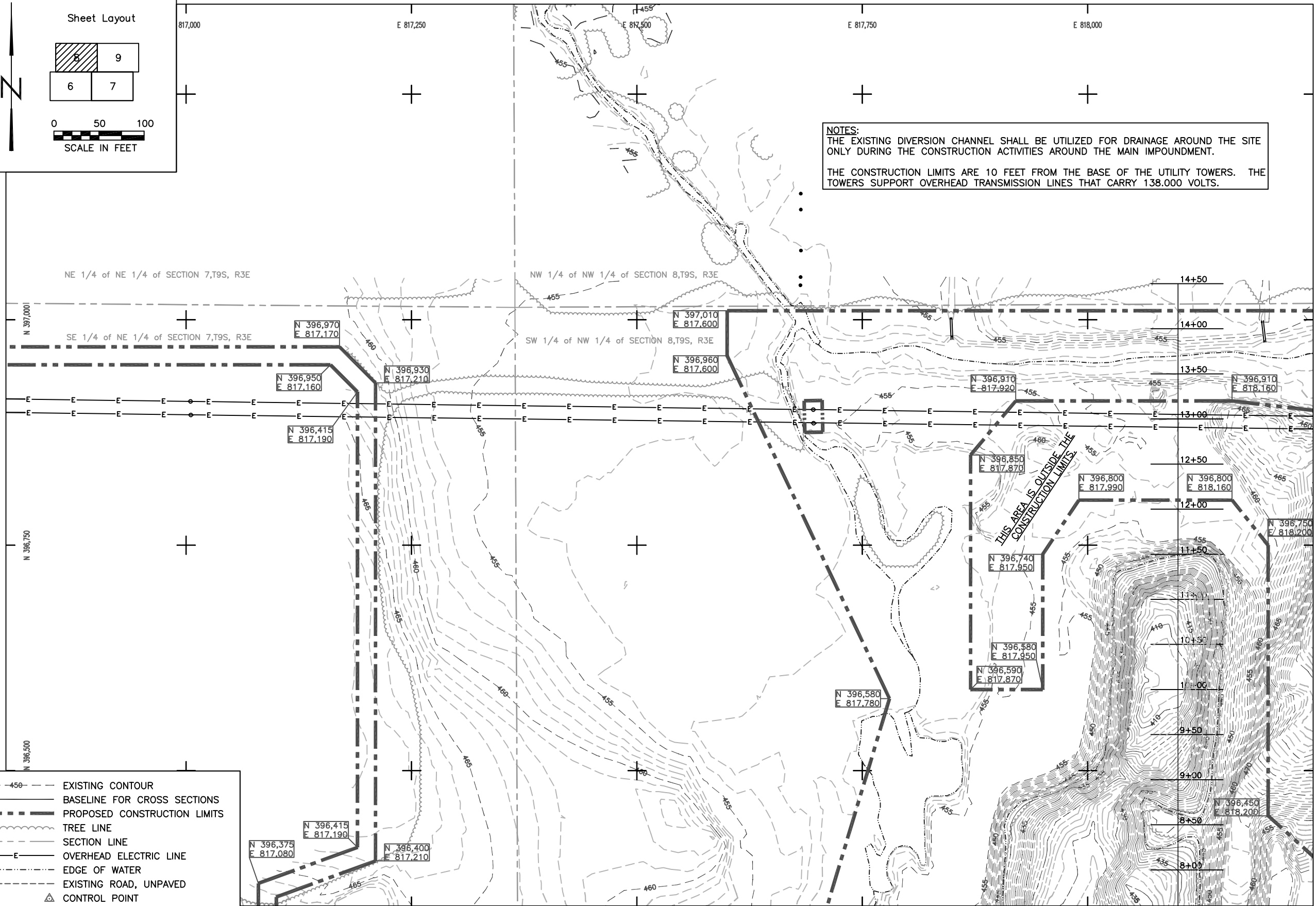
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Existing Conditions
Peabody Utility West
Sheet
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Peabody Utility West



NOTES:
 THE EXISTING DIVERSION CHANNEL SHALL BE UTILIZED FOR DRAINAGE AROUND THE SITE ONLY DURING THE CONSTRUCTION ACTIVITIES AROUND THE MAIN IMPOUNDMENT.
 THE CONSTRUCTION LIMITS ARE 10 FEET FROM THE BASE OF THE UTILITY TOWERS. THE TOWERS SUPPORT OVERHEAD TRANSMISSION LINES THAT CARRY 138,000 VOLTS.

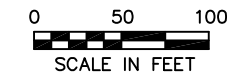
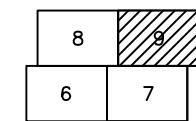


- - - 450 - - - EXISTING CONTOUR
- — — BASELINE FOR CROSS SECTIONS
- - - - - PROPOSED CONSTRUCTION LIMITS
- ~~~~~ TREE LINE
- — — SECTION LINE
- — — OVERHEAD ELECTRIC LINE
- - - - - EDGE OF WATER
- - - - - EXISTING ROAD, UNPAVED
- △ CONTROL POINT
- EXISTING STRUCTURE

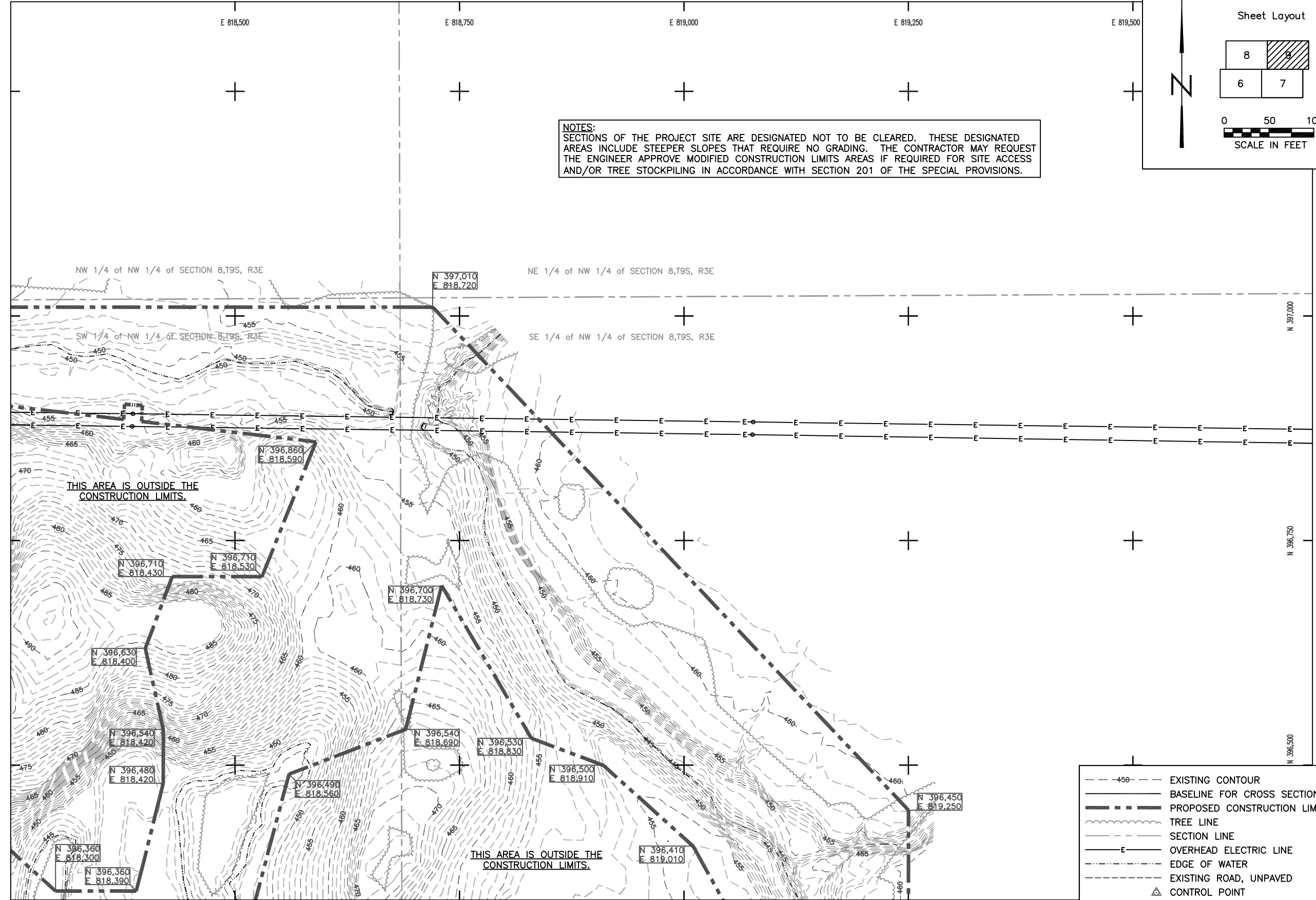
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Peabody Utility West

Sheet Layout



NOTES:
 SECTIONS OF THE PROJECT SITE ARE DESIGNATED NOT TO BE CLEARED. THESE DESIGNATED AREAS INCLUDE STEEPER SLOPES THAT REQUIRE NO GRADING. THE CONTRACTOR MAY REQUEST THE ENGINEER APPROVE MODIFIED CONSTRUCTION LIMITS AREAS IF REQUIRED FOR SITE ACCESS AND/OR TREE STOCKPILING IN ACCORDANCE WITH SECTION 201 OF THE SPECIAL PROVISIONS.



Legend

State of Illinois
 Department of Natural Resources

Equator and Peabody Utility
 West Reclamation Project
 AML-GWmE-1309
 Williamson County

Drawn By: JLU Date: 12/2/2013
 Checked By:

Existing Conditions
 Peabody Utility West
 Sheet
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Legend

- 450 --- EXISTING CONTOUR
- 450 — PROPOSED CONTOUR
- — — BASELINE FOR CROSS SECTIONS
- · — · — PROPOSED CONSTRUCTION LIMITS
- ~ ~ ~ TREE LINE
- — — SECTION LINE
- E — OVERHEAD ELECTRIC LINE
- - - EDGE OF WATER
- ▨ PROPOSED RIPRAP
- ▩ PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
- ▧ PROPOSED PERIMETER EROSION BARRIER
- - - EXISTING ROAD, UNPAVED
- △ CONTROL POINT
- EXISTING STRUCTURE

PROPOSED STONE DUMPED RIPRAP, CLASS A4
 UPSTREAM FLOW ELEVATION = 454.4
 DOWNSTREAM FLOW ELEVATION = 453.0
 215' LENGTH, 16' WIDTH, 30" AVG DEPTH (414.1 TON)
 6" BEDDING MATERIAL (INCIDENTAL)
 NO FILTER FABRIC REQUIRED
 NO EARTH EXCAVATION REQUIRED

PROPOSED SPECIAL EXCELSIOR BLANKET
 200' LENGTH, 8' WIDTH (178 SQ YD)
 205' LENGTH, 8' WIDTH (182 SQ YD)
 500' LENGTH, 8' WIDTH (444 SQ YD)

PROPOSED SPECIAL EXCELSIOR BLANKET
 250' LENGTH, 8' WIDTH (222 SQ YD)
 220' LENGTH, 8' WIDTH (196 SQ YD)

SE 1/4 of NE 1/4 of SECTION 7,T9S, R3E

NE 1/4 of SE 1/4 of SECTION 7,T9S, R3E

PROPOSED CHANNEL D
 SEE DETAIL K-26

PROPOSED CHANNEL E
 SEE DETAIL L-26

PROPOSED SPECIAL EXCELSIOR BLANKET
 480' LENGTH, 8' WIDTH (427 SQ YD)
 520' LENGTH, 8' WIDTH (462 SQ YD)

PROPOSED SPECIAL EXCELSIOR BLANKET
 120' LENGTH, 8' WIDTH (107 SQ YD)

PROPOSED PERIMETER EROSION BARRIER
 (250 FOOT)

PROPOSED PERIMETER EROSION BARRIER
 (300 FOOT)

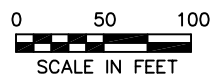
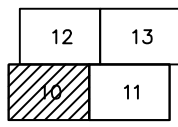
503
 816802.098
 395505.550
 459.090

NOTE:
 FOR DEWATERING IMPOUNDMENTS, THE CONTRACTOR WILL ONLY BE REQUIRED TO DEWATER THE MAIN IMPOUNDMENT TO ELEVATION 431.0 AND THE SOUTHWEST IMPOUNDMENT TO ELEVATION 442.0. ALL PROPOSED FILL BELOW THESE ELEVATIONS SHALL BE PLACED TO THE SATISFACTION OF THE ENGINEER. ALL PROPOSED FILL ABOVE THESE ELEVATIONS SHALL MEET THE REQUIREMENTS OF SECTION 205 OF THE SPECIAL PROVISIONS.

PROPOSED SLOPES ABOVE EXISTING AND PROPOSED THE WATER ELEVATIONS ARE MOSTLY 4H:1V. PROPOSED SLOPES BELOW EXISTING AND PROPOSED WATER ELEVATIONS ARE MOSTLY 3H:1V.

Peabody Utility West

Sheet Layout



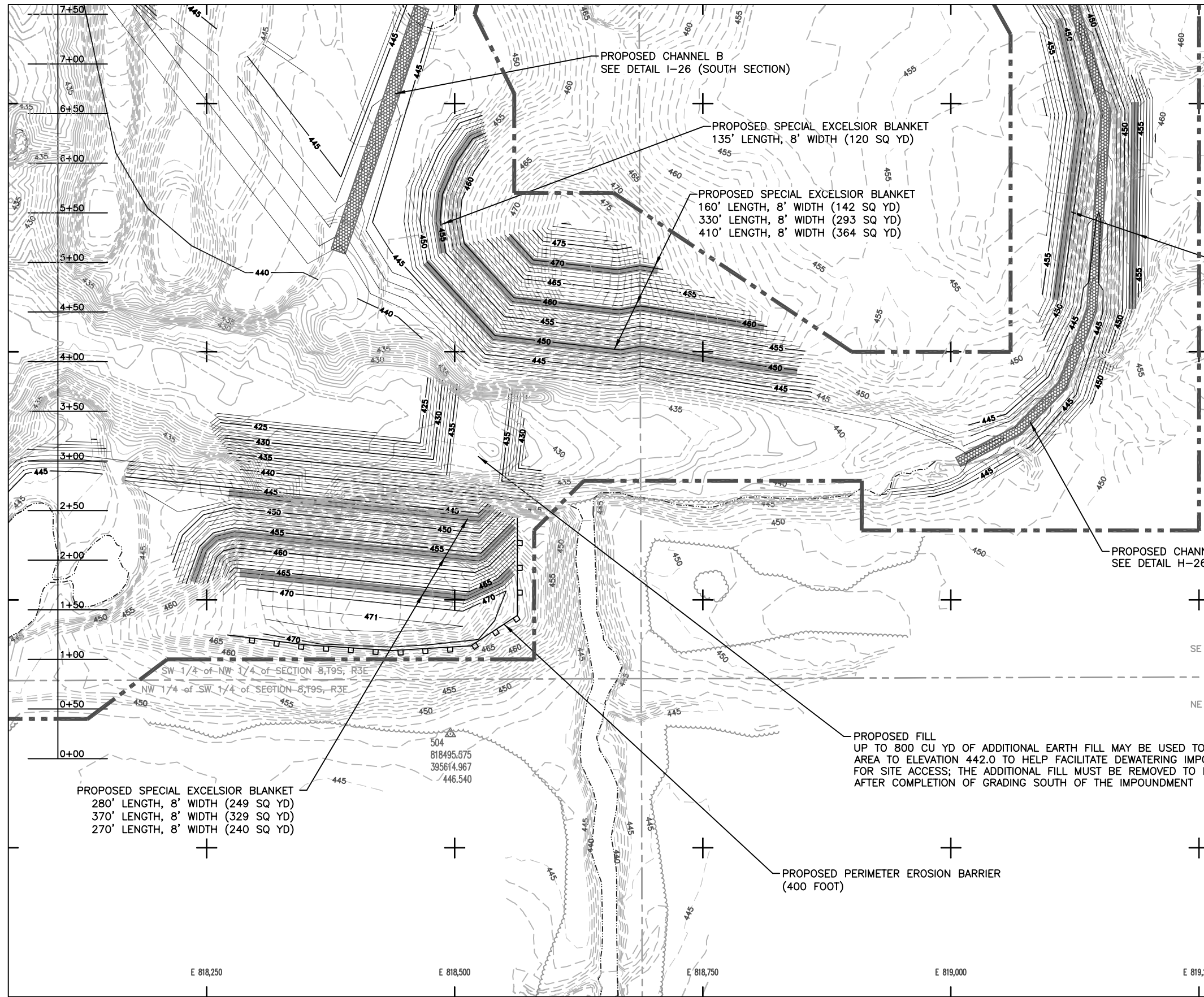
E 817,000

E 817,250

E 817,500

E 817,750

E 818,000



| | |
|--|---|
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | BASELINE FOR CROSS SECTIONS |
| | PROPOSED CONSTRUCTION LIMITS |
| | TREE LINE |
| | SECTION LINE |
| | OVERHEAD ELECTRIC LINE |
| | EDGE OF WATER |
| | PROPOSED RIPRAP |
| | PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH) |
| | PROPOSED PERIMETER EROSION BARRIER |
| | EXISTING ROAD, UNPAVED |
| | CONTROL POINT |
| | EXISTING STRUCTURE |

Legend

NOTE:
 PER SECTION 614 OF THE SPECIAL PROVISIONS, THE DEWATERING OPERATION SHALL BE PERFORMED AT A CONTROLLED RATE WHICH WILL PREVENT DOWNSTREAM FLOODING, EROSION OF THE EXISTING STREAM CHANNELS, TRANSPORTATION OF SEDIMENT OUTSIDE THE CONSTRUCTION LIMITS AND DAMAGE TO AQUATIC LIFE AND ITS HABITAT. IN ADDITION, AT NO TIME SHALL THE PUMPING RATE EXCEED 20 CUBIC FEET PER SECOND (9,800 GALLON PER MINUTE).

PROPOSED SPECIAL EXCELSIOR BLANKET
 280' LENGTH, 8' WIDTH (249 SQ YD)
 370' LENGTH, 8' WIDTH (329 SQ YD)
 270' LENGTH, 8' WIDTH (240 SQ YD)

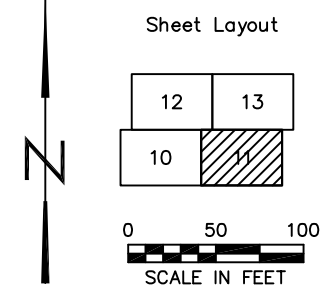
PROPOSED SPECIAL EXCELSIOR BLANKET
 135' LENGTH, 8' WIDTH (120 SQ YD)
 160' LENGTH, 8' WIDTH (142 SQ YD)
 330' LENGTH, 8' WIDTH (293 SQ YD)
 410' LENGTH, 8' WIDTH (364 SQ YD)

PROPOSED SPECIAL EXCELSIOR BLANKET
 210' LENGTH, 8' WIDTH (187 SQ YD)
 290' LENGTH, 8' WIDTH (258 SQ YD)

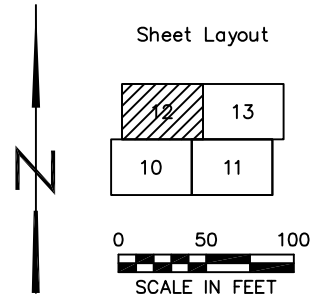
PROPOSED FILL
 UP TO 800 CU YD OF ADDITIONAL EARTH FILL MAY BE USED TO CONSTRUCT THIS AREA TO ELEVATION 442.0 TO HELP FACILITATE DEWATERING IMPOUNDMENTS AND FOR SITE ACCESS; THE ADDITIONAL FILL MUST BE REMOVED TO ELEVATION 436.0 AFTER COMPLETION OF GRADING SOUTH OF THE IMPOUNDMENT

PROPOSED PERIMETER EROSION BARRIER
 (400 FOOT)

Peabody Utility West

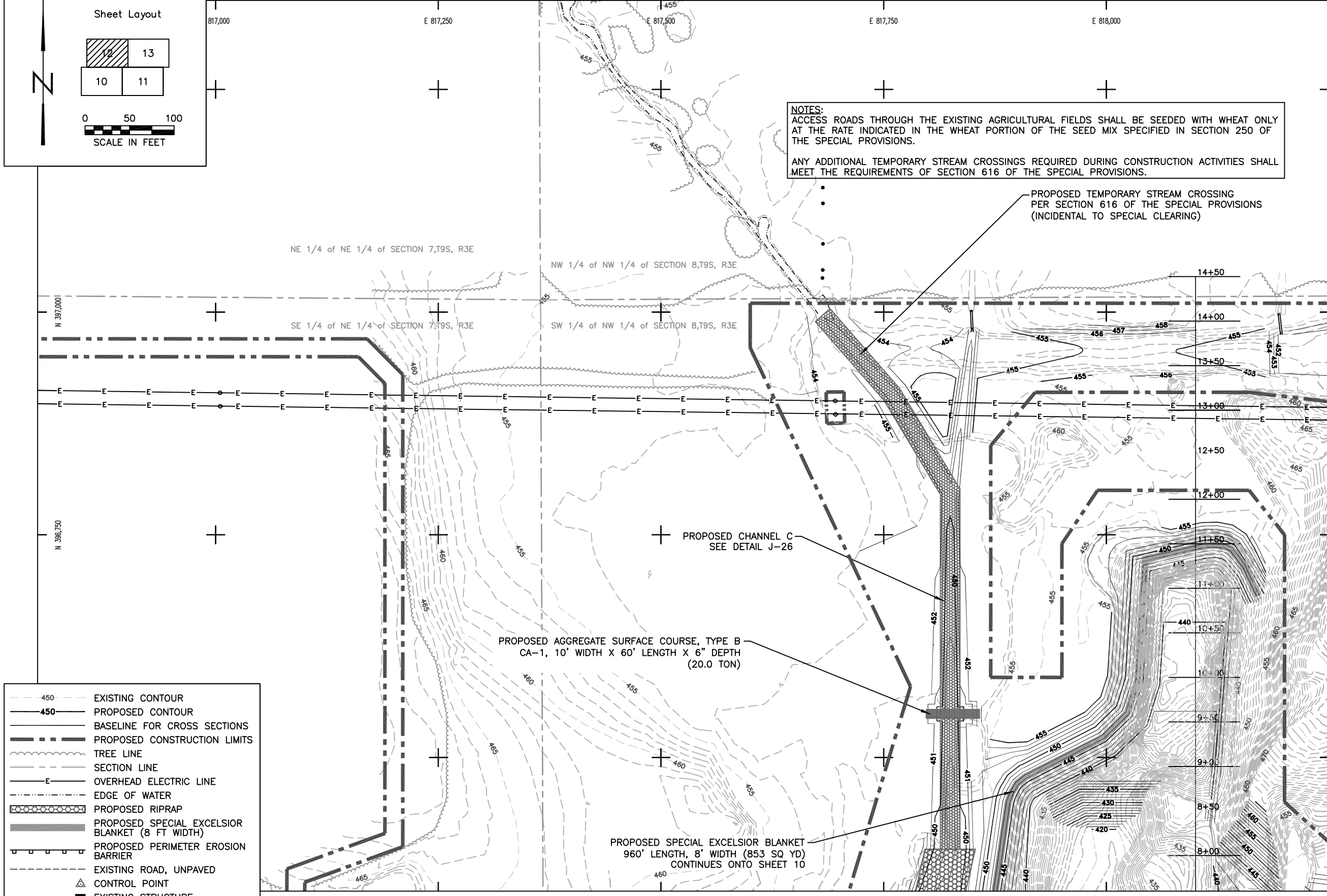


Peabody Utility West



NOTES:
 ACCESS ROADS THROUGH THE EXISTING AGRICULTURAL FIELDS SHALL BE SEEDED WITH WHEAT ONLY AT THE RATE INDICATED IN THE WHEAT PORTION OF THE SEED MIX SPECIFIED IN SECTION 250 OF THE SPECIAL PROVISIONS.
 ANY ADDITIONAL TEMPORARY STREAM CROSSINGS REQUIRED DURING CONSTRUCTION ACTIVITIES SHALL MEET THE REQUIREMENTS OF SECTION 616 OF THE SPECIAL PROVISIONS.

PROPOSED TEMPORARY STREAM CROSSING PER SECTION 616 OF THE SPECIAL PROVISIONS (INCIDENTAL TO SPECIAL CLEARING)

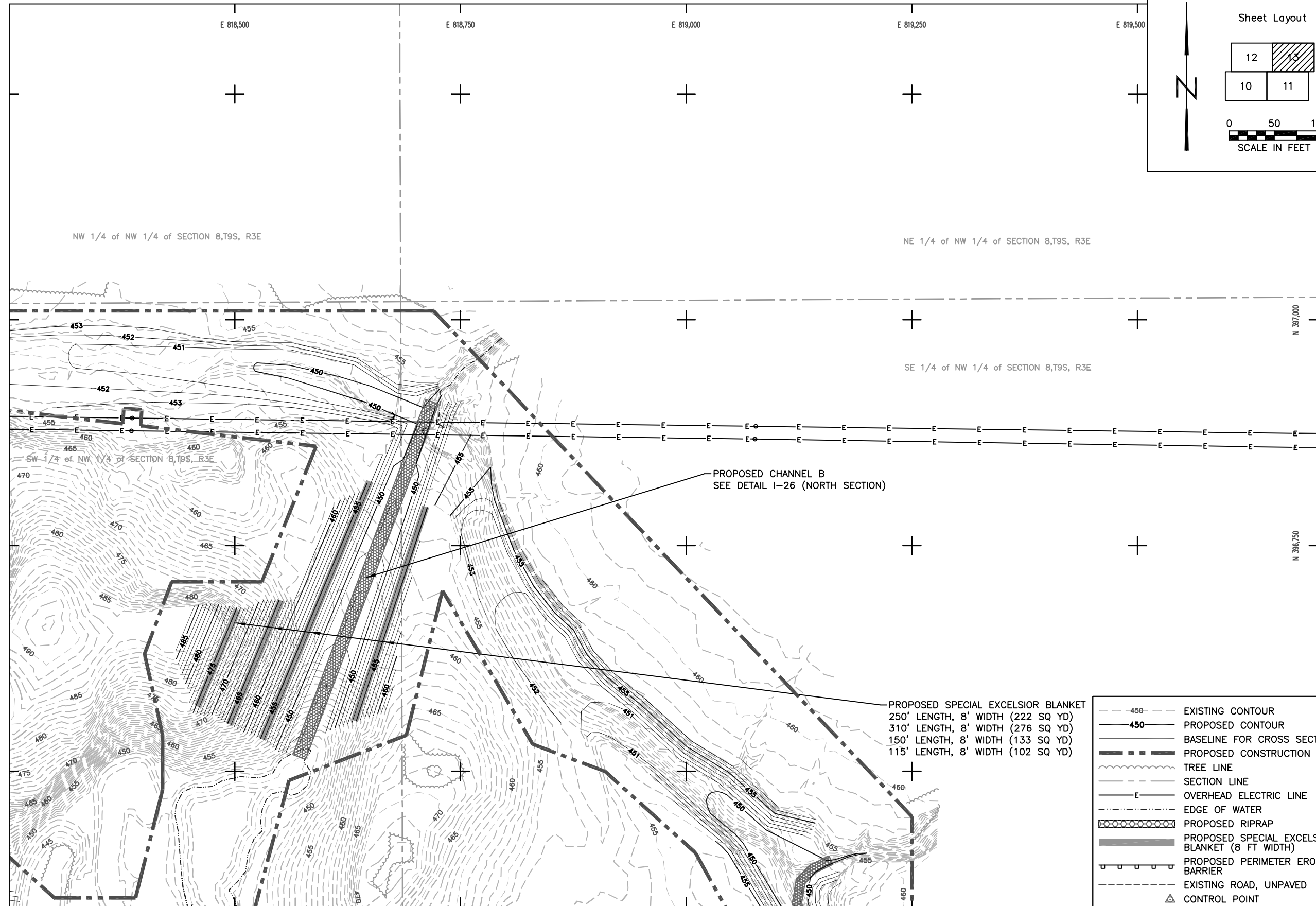
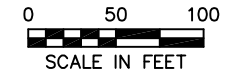
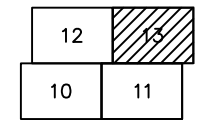


- 450 EXISTING CONTOUR
- 450 PROPOSED CONTOUR
- BASELINE FOR CROSS SECTIONS
- PROPOSED CONSTRUCTION LIMITS
- TREE LINE
- SECTION LINE
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- PROPOSED RIPRAP
- PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
- PROPOSED PERIMETER EROSION BARRIER
- EXISTING ROAD, UNPAVED
- CONTROL POINT
- EXISTING STRUCTURE

Legend

Peabody Utility West

Sheet Layout



| | | |
|--|-----|---|
| | 450 | EXISTING CONTOUR |
| | 450 | PROPOSED CONTOUR |
| | | BASELINE FOR CROSS SECTIONS |
| | | PROPOSED CONSTRUCTION LIMITS |
| | | TREE LINE |
| | | SECTION LINE |
| | | OVERHEAD ELECTRIC LINE |
| | | EDGE OF WATER |
| | | PROPOSED RIPRAP |
| | | PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH) |
| | | PROPOSED PERIMETER EROSION BARRIER |
| | | EXISTING ROAD, UNPAVED |
| | | CONTROL POINT |
| | | EXISTING STRUCTURE |

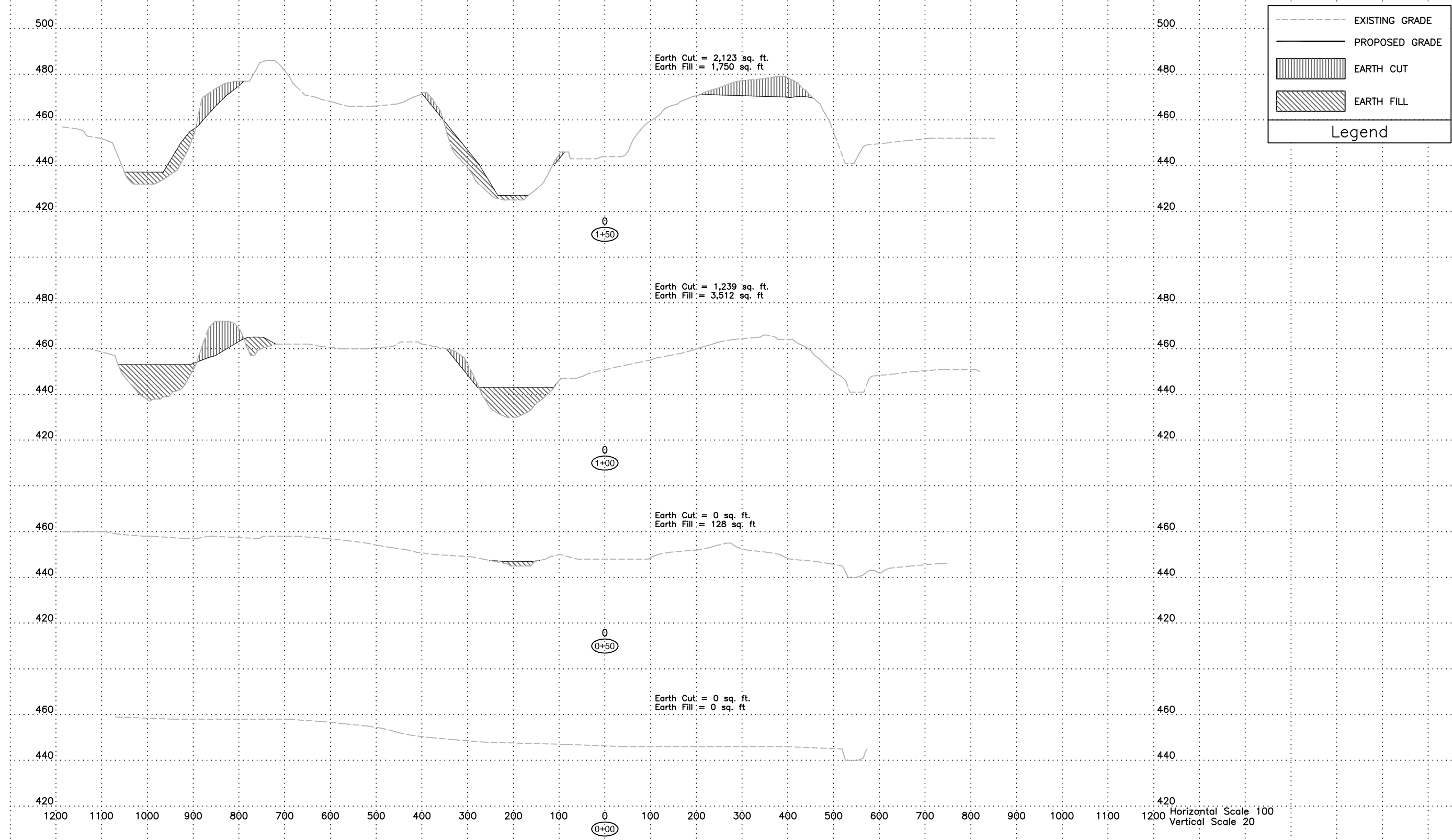
Legend

State of Illinois
Department of Natural Resources

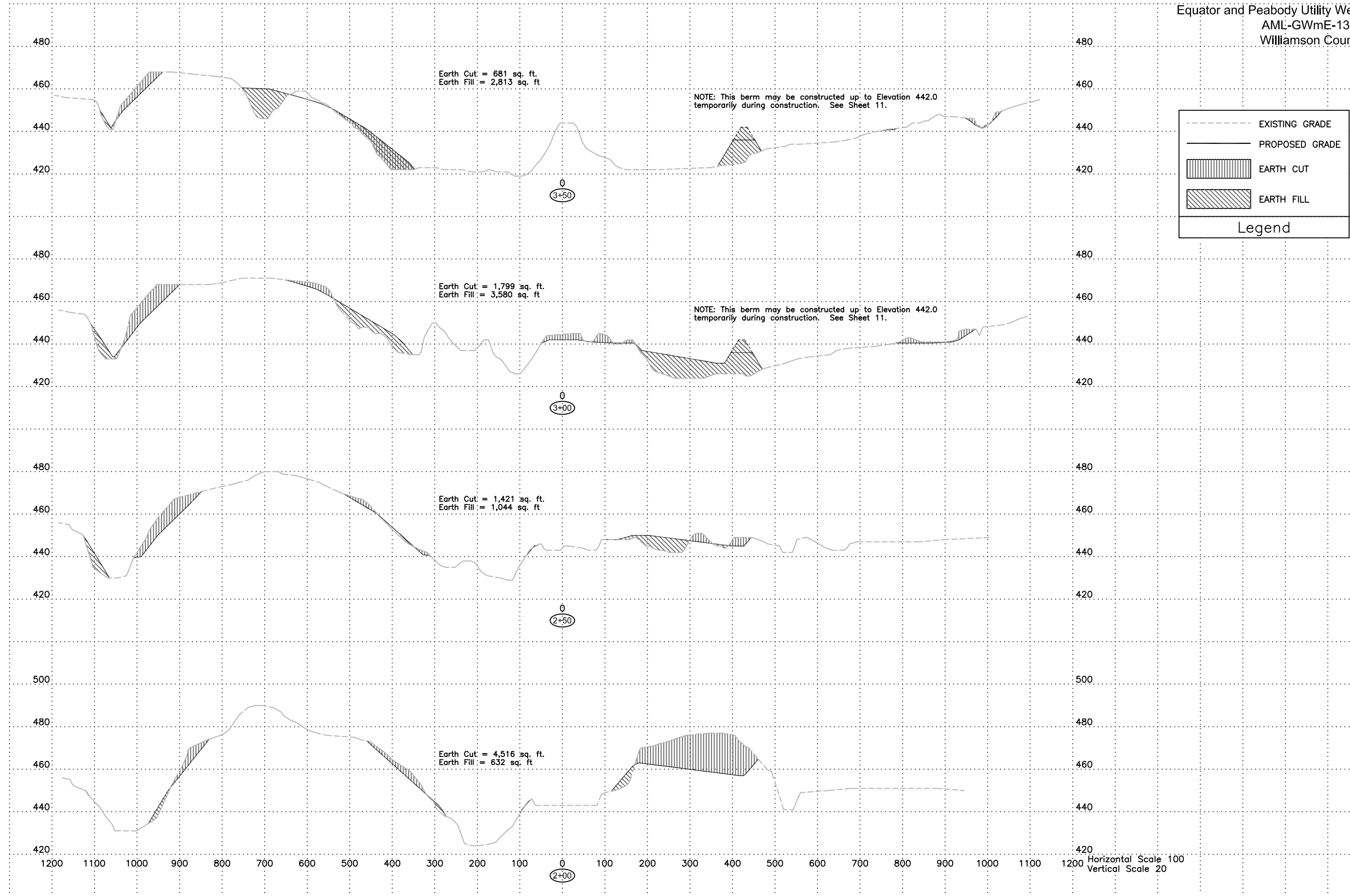
Equator and Peabody Utility
West Reclamation Project
AML-GWmE-1309
Williamson County

Drawn By: JLU Date: 12/2/2013
Checked By:

Proposed Conditions
Peabody Utility West
Sheet
13 of 26



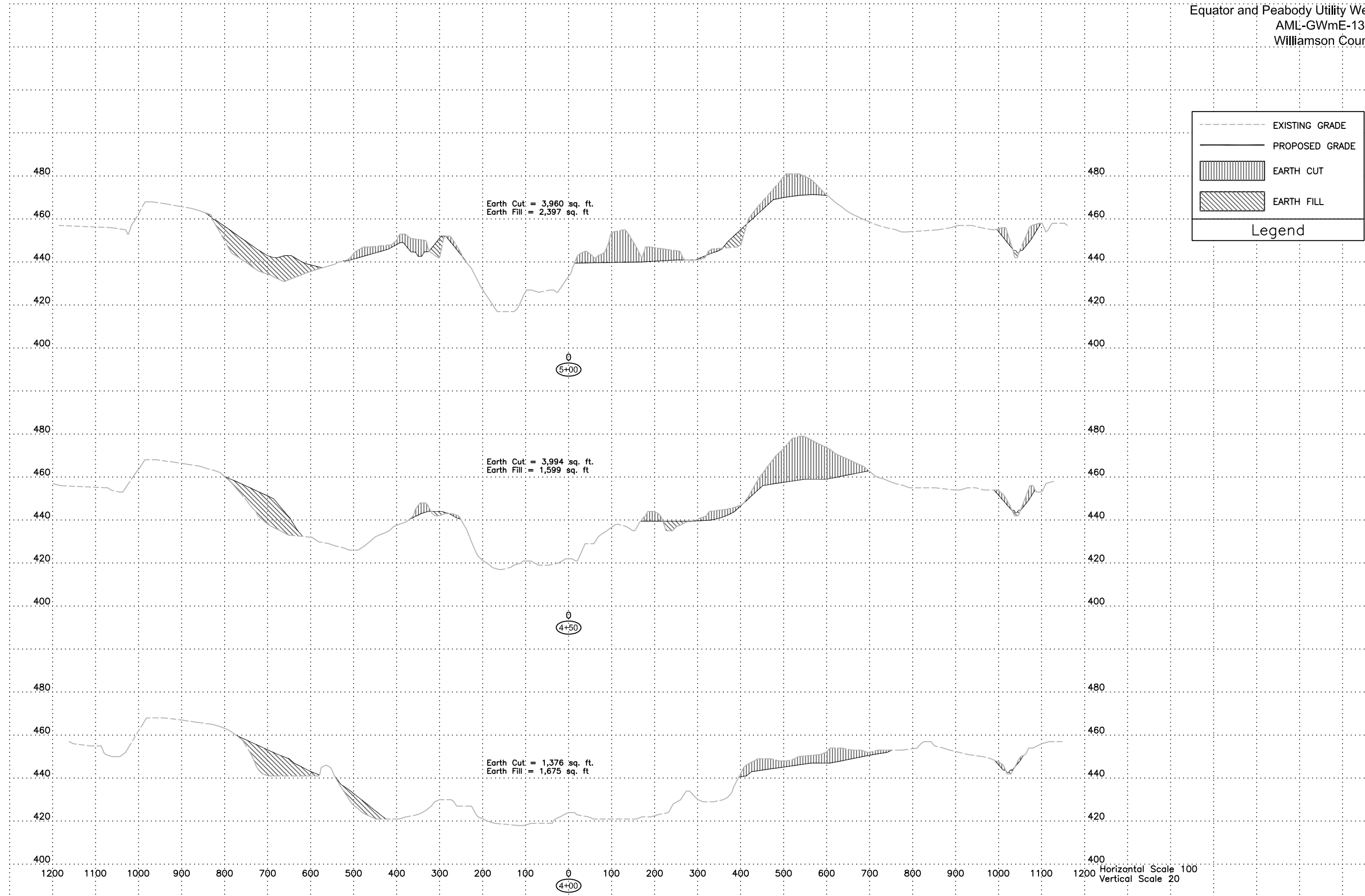
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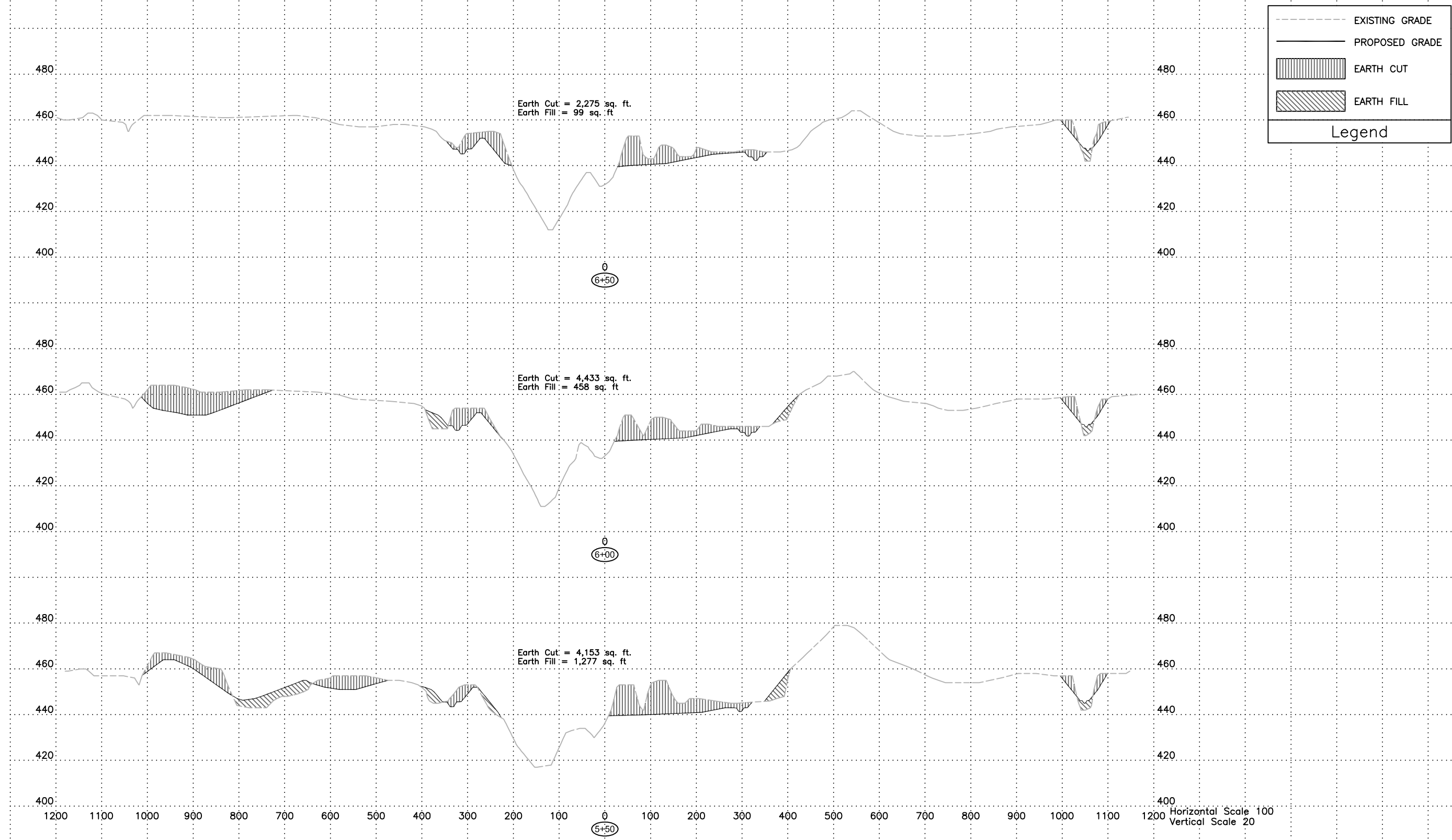
Legend

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

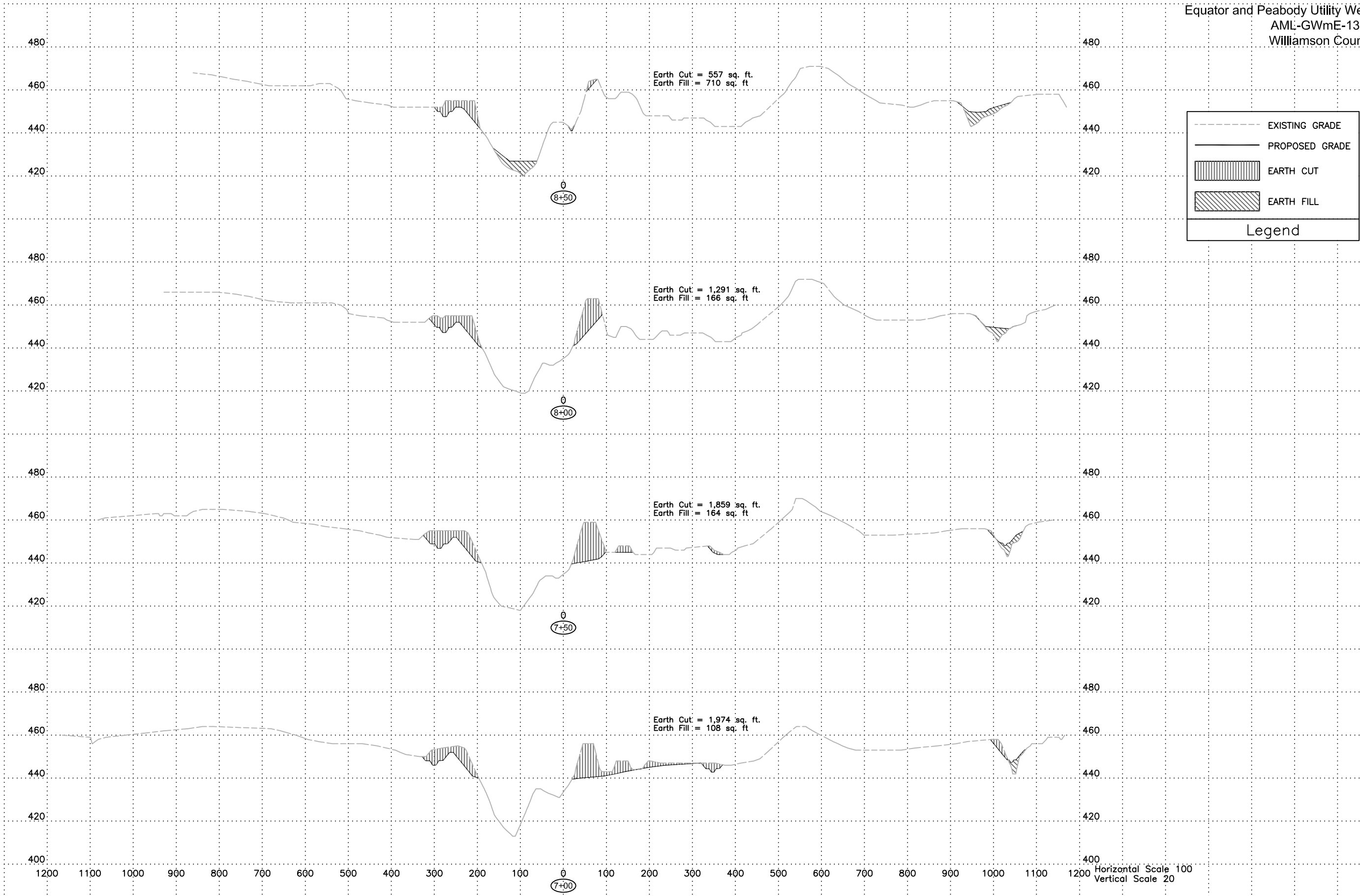
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 Vertical Scale 20



Horizontal Scale 100
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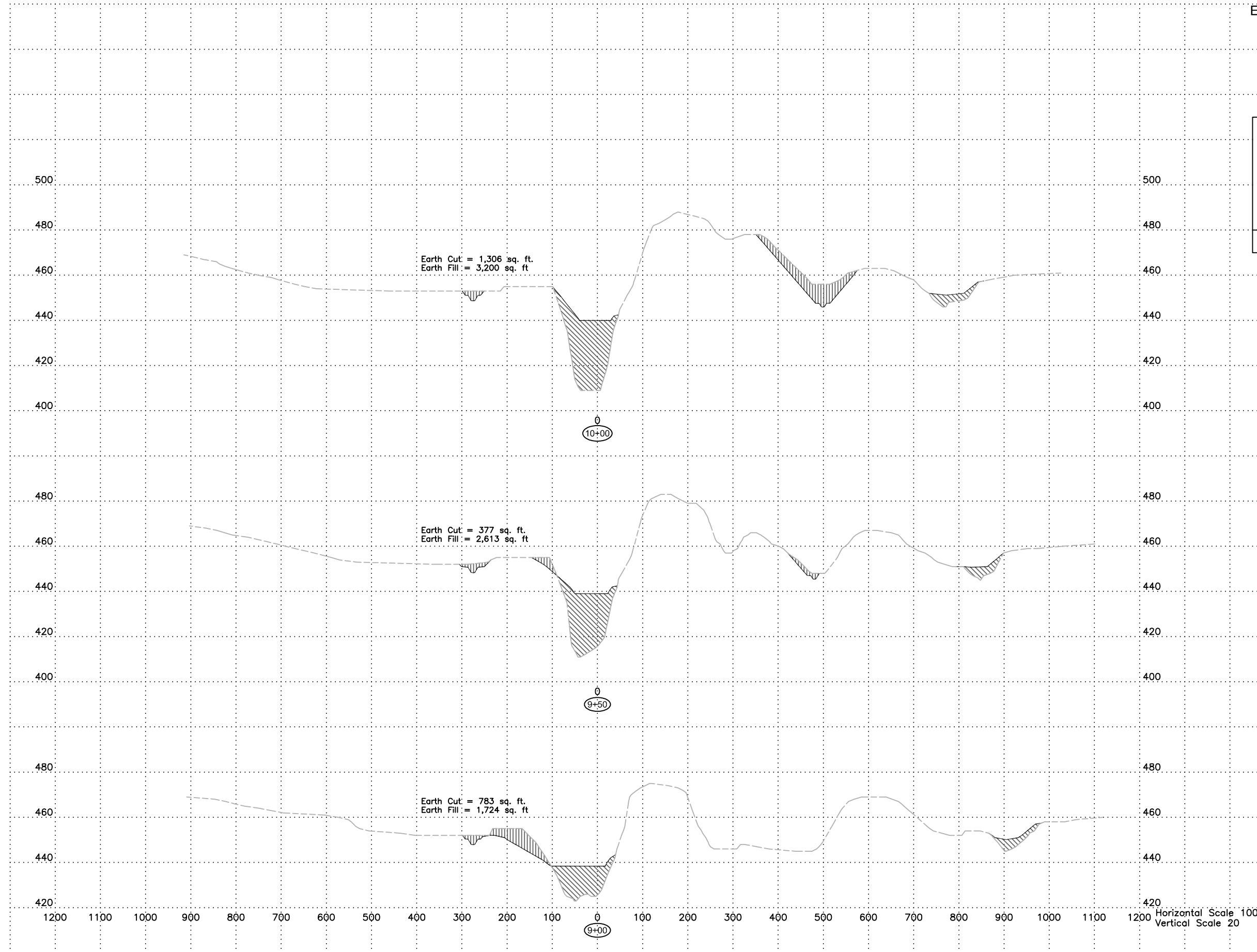
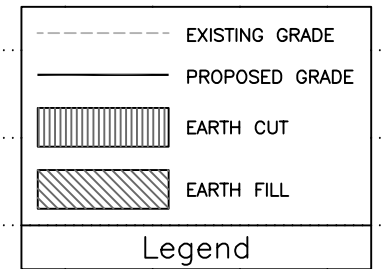
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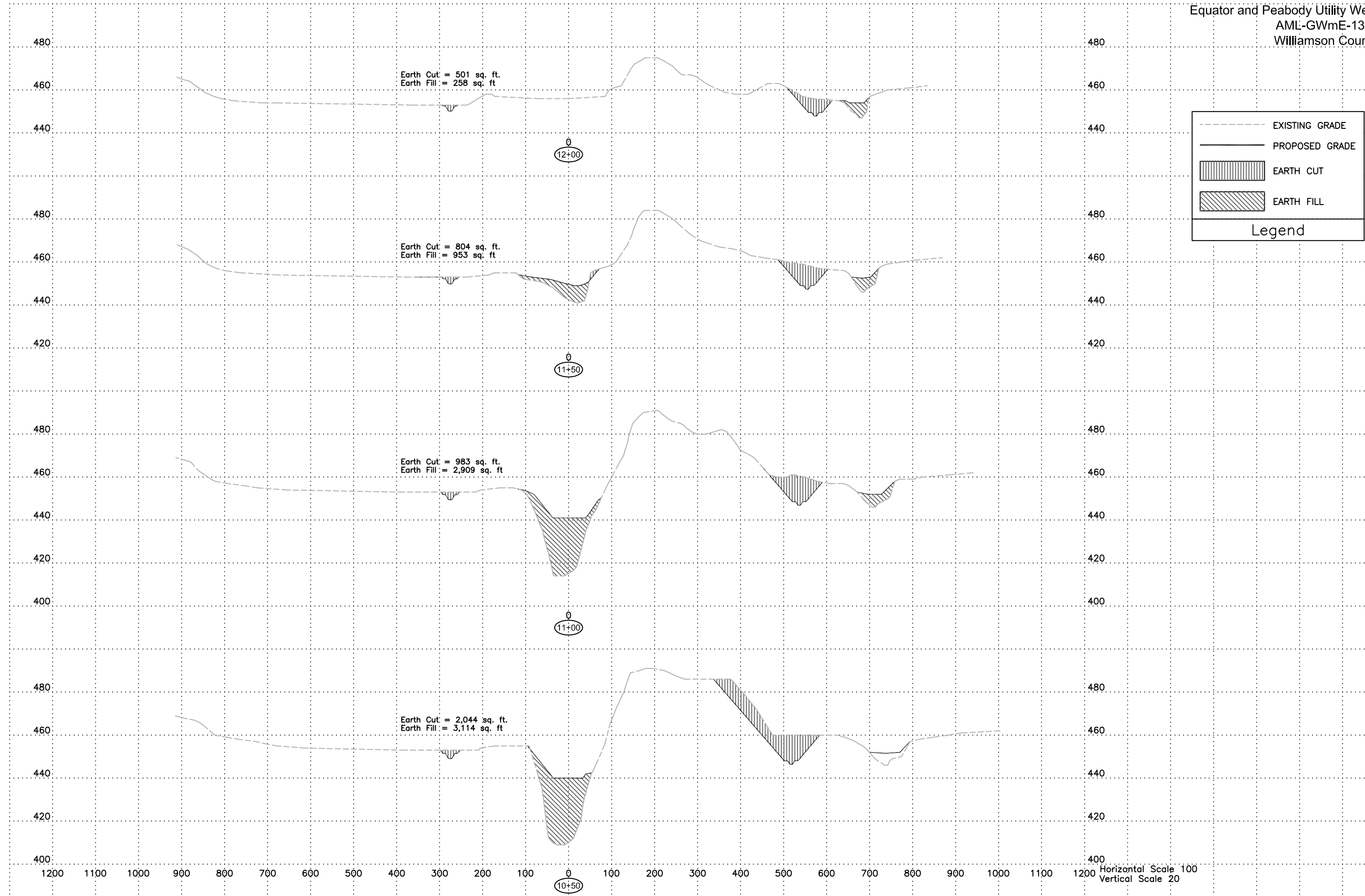
Legend

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

Horizontal Scale 100
Vertical Scale 20



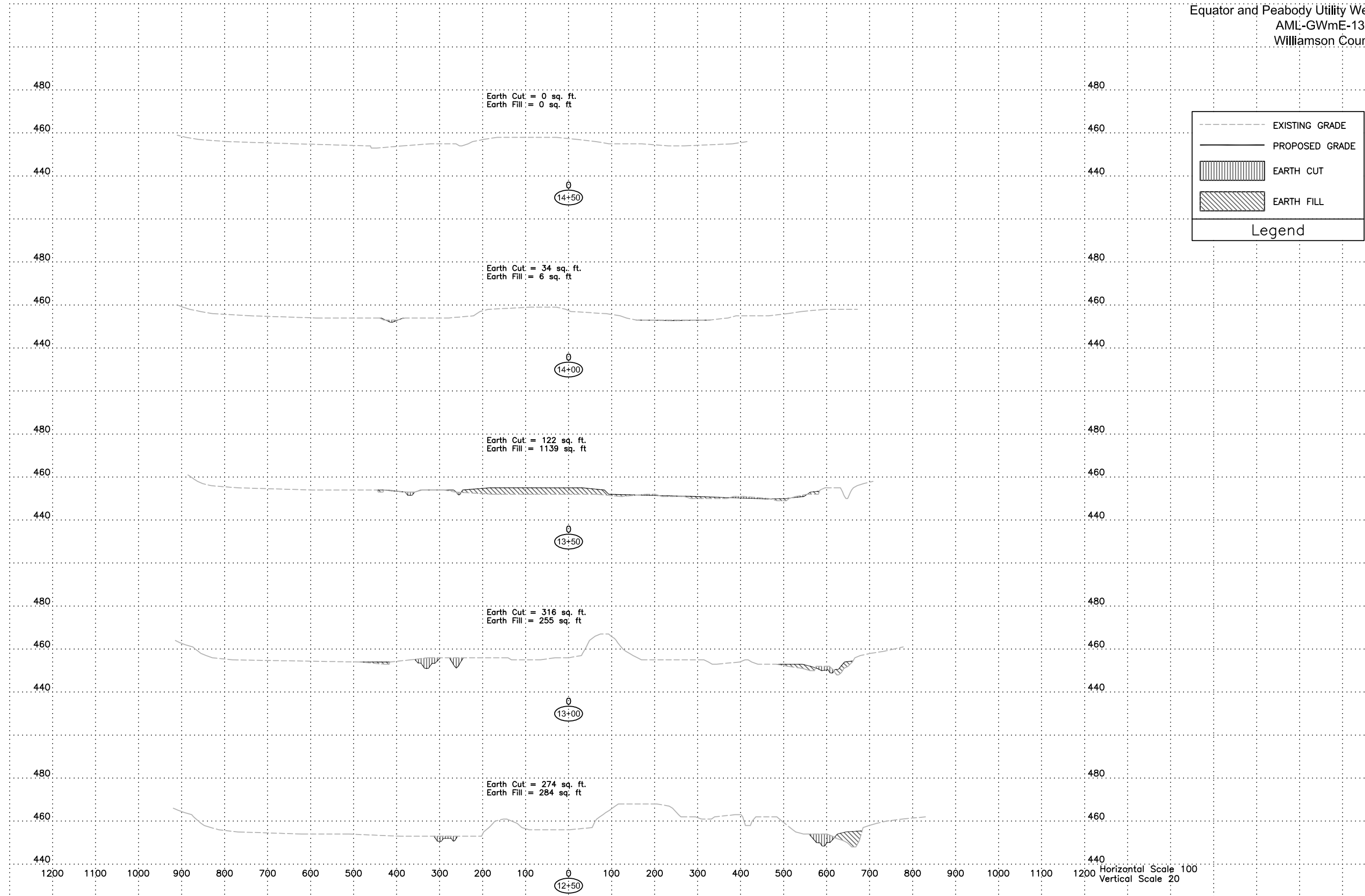
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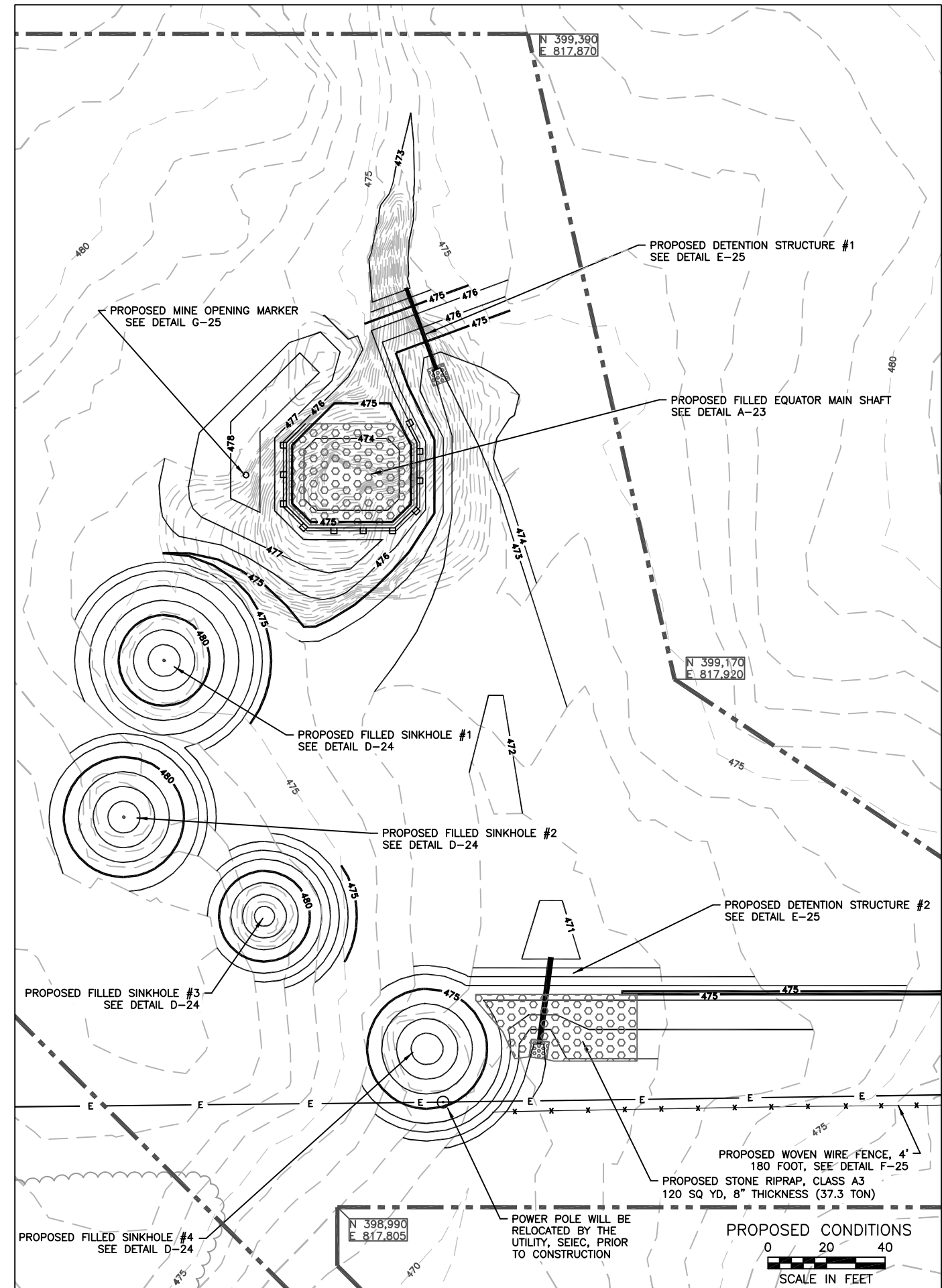
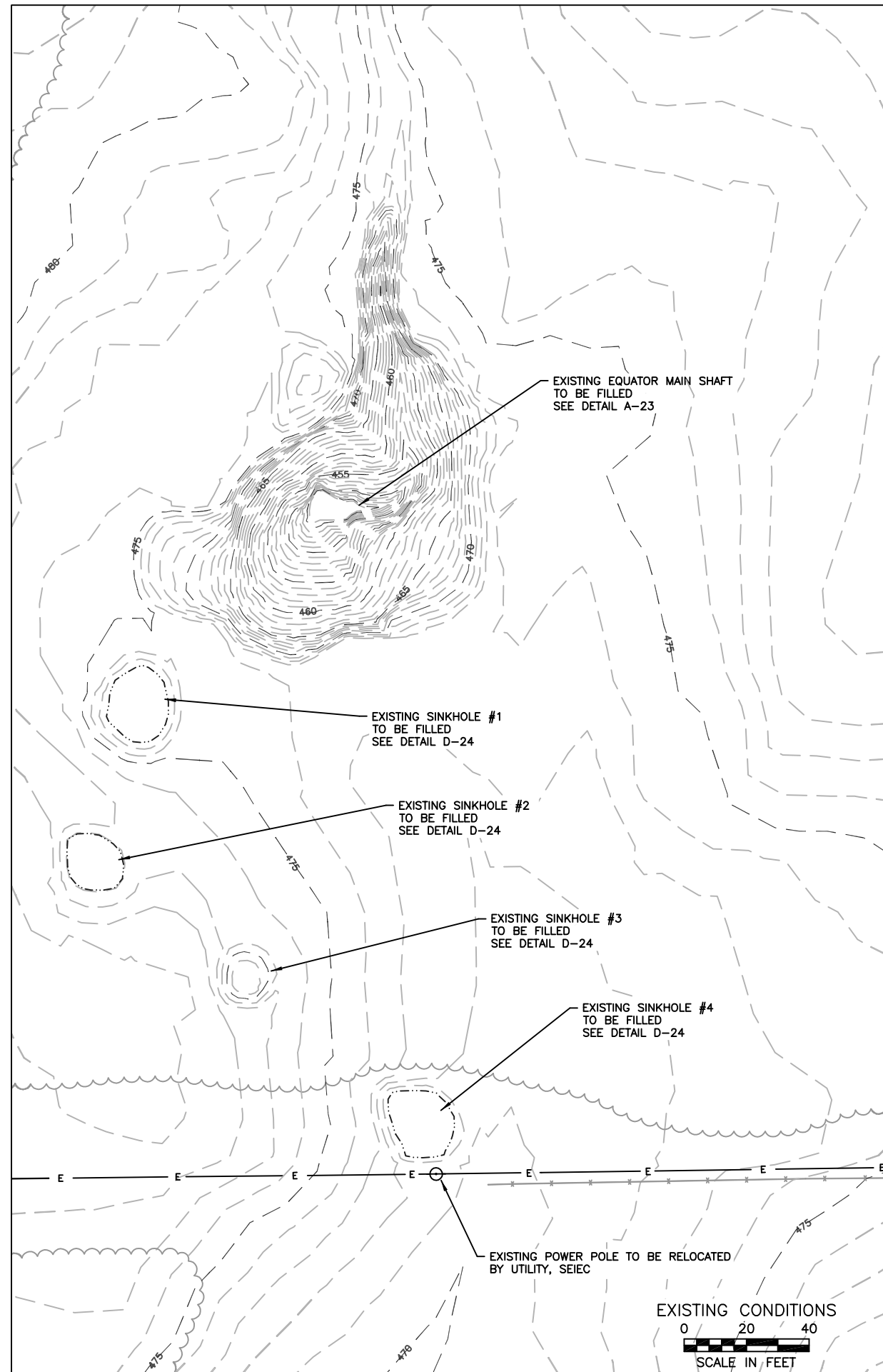
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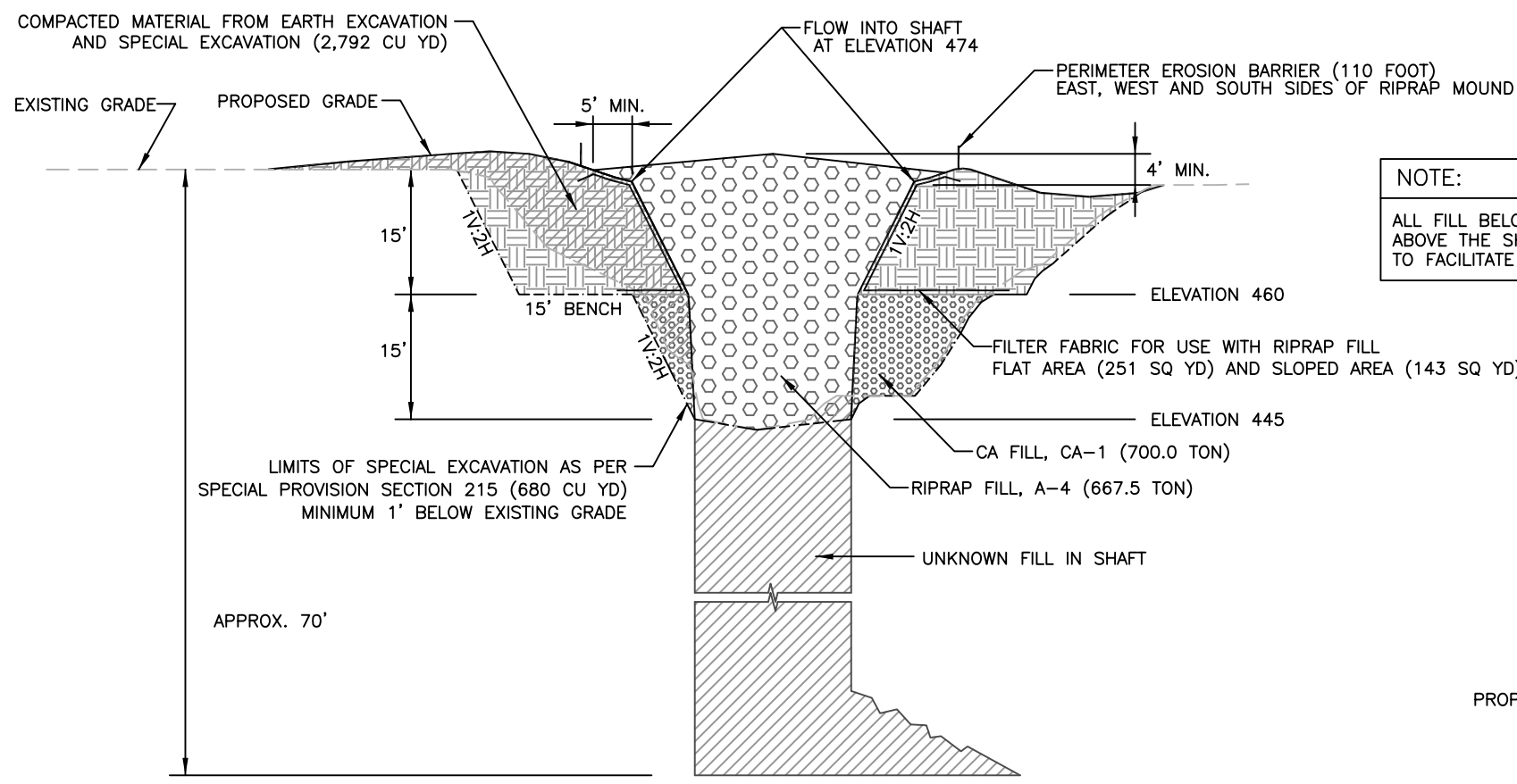
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT
- EARTH FILL

Horizontal Scale 100
Vertical Scale 20



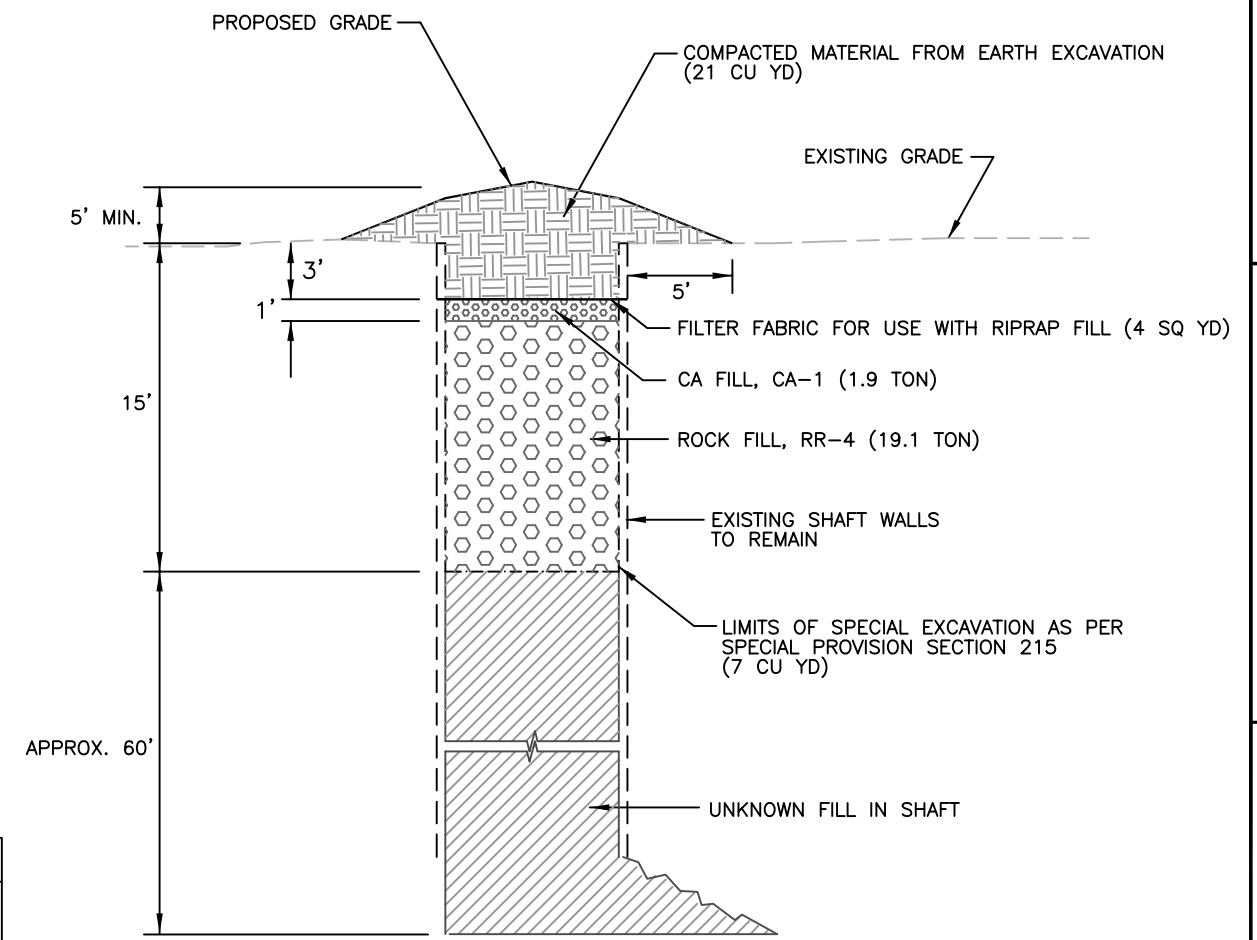
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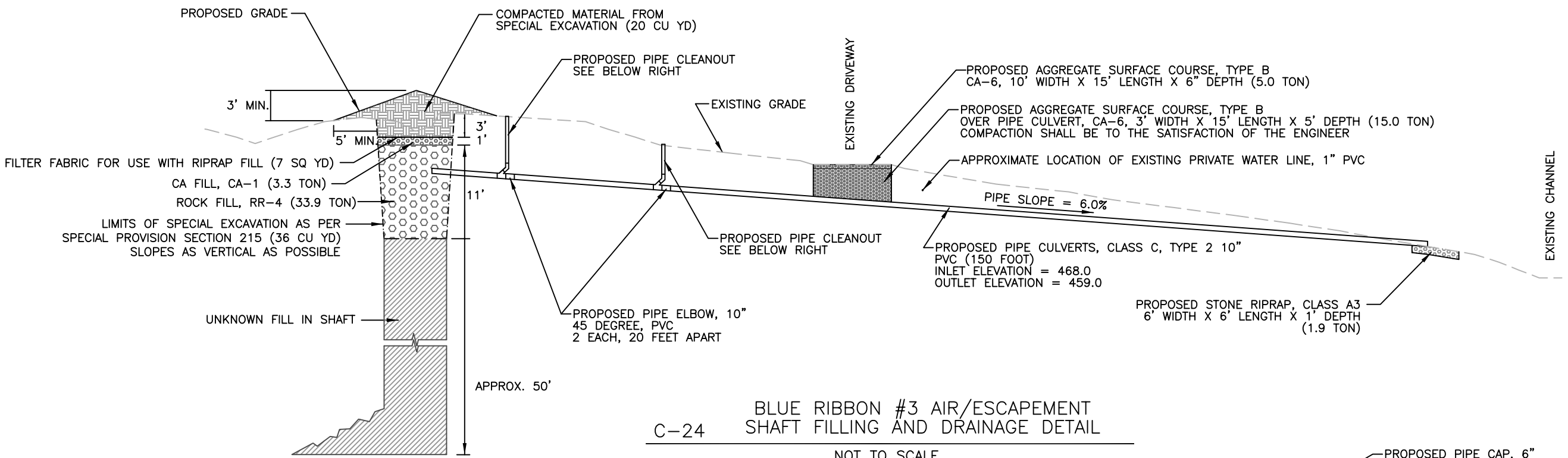
NOTE:
ALL FILL BELOW ELEVATION 460.0 SHALL BE RIPRAP FILL, A-4 ABOVE THE SHAFT OPENING AND COARSE AGGREGATE FILL, CA-1 TO FACILITATE ACCESS AROUND THE MAIN SHAFT.

A-23 EQUATOR MAIN SHAFT FILLING DETAIL
NOT TO SCALE



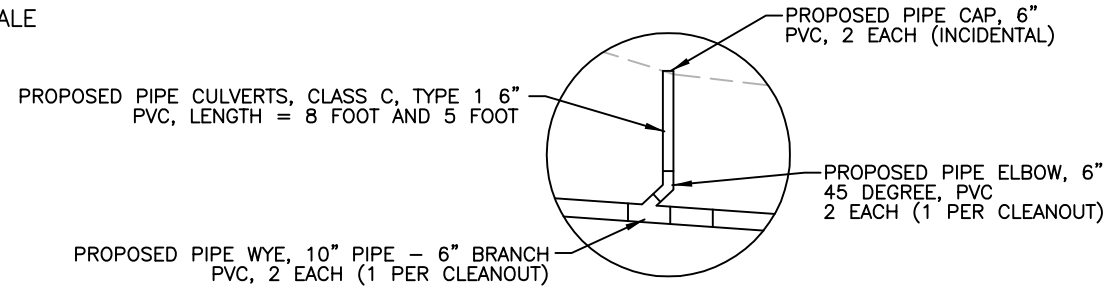
B-23 EQUATOR AIR SHAFT FILLING DETAIL
NOT TO SCALE

NOTES:
1. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE SHAFT AREAS DUE TO THE UNKNOWN CONDITION OF THE SHAFTS 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.
3. THE DIMENSIONS OF THE EQUATOR MAIN SHAFT ARE ESTIMATED TO BE 20' X 12'. THE DIMENSIONS OF THE EQUATOR AIR SHAFT ARE 6' X 6'. THE DIMENSIONS OF THE BLUE RIBBON #3 AIR/ESCAPEMENT SHAFT ARE ESTIMATED TO BE 8' X 8'.

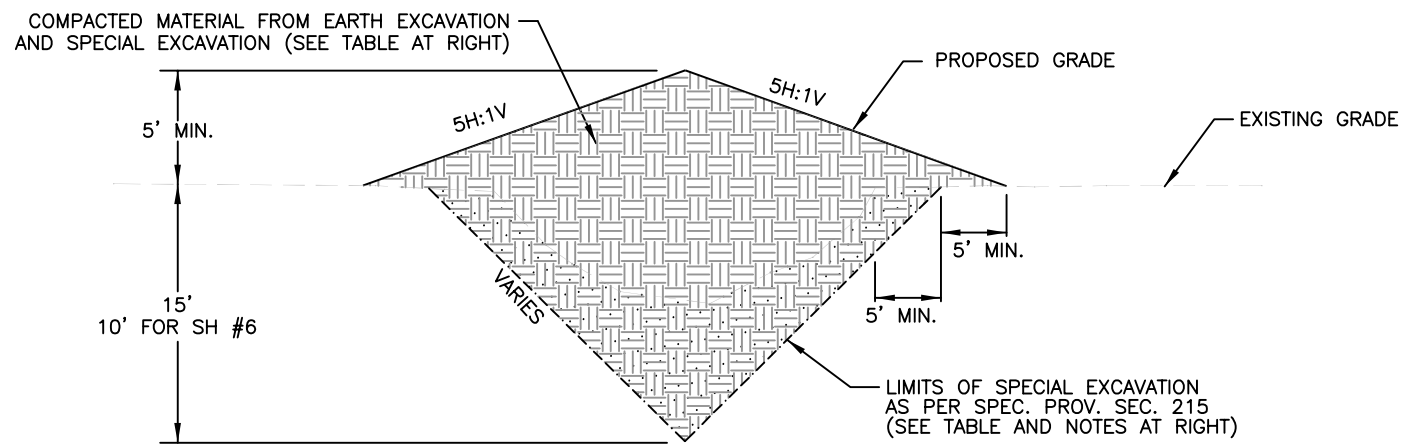


C-24 BLUE RIBBON #3 AIR/ESCAPEMENT SHAFT FILLING AND DRAINAGE DETAIL
NOT TO SCALE

- NOTES:
1. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE SINKHOLE AREAS DUE TO THE UNKNOWN CONDITION OF THE SINKHOLES 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.



PROPOSED PIPE CLEANOUT



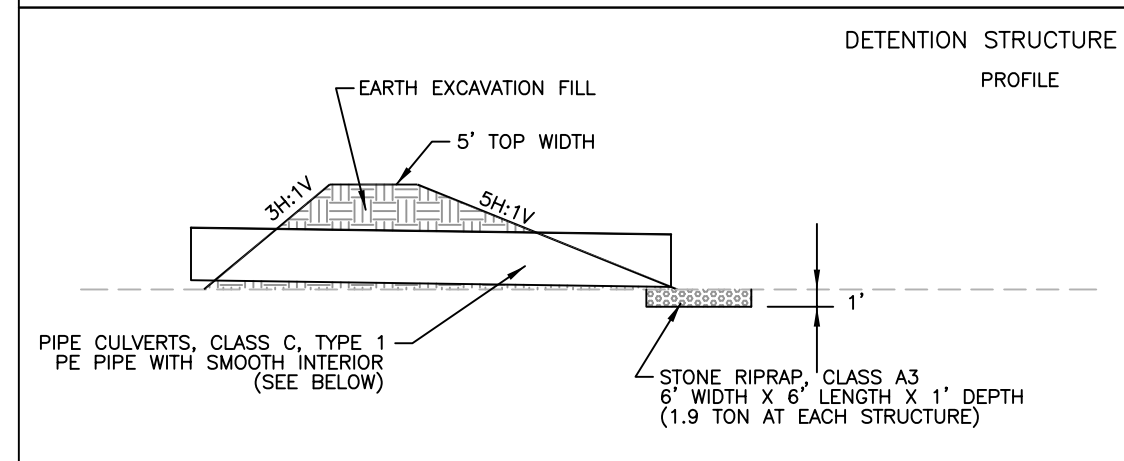
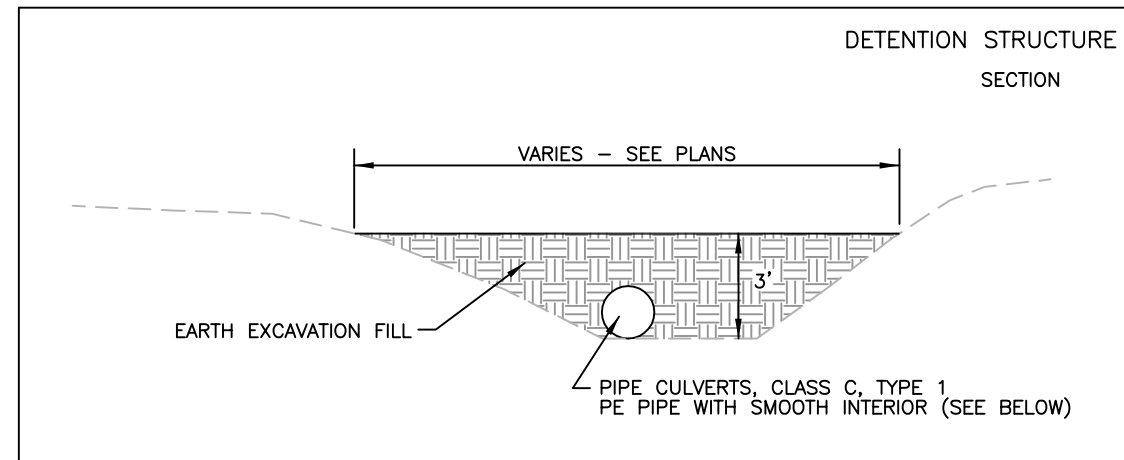
D-24 SEALED SINKHOLE DETAIL
NOT TO SCALE

SPECIAL EXCAVATION VOLUMES

| | |
|-------------|-----------|
| SINKHOLE #1 | 383 CU YD |
| SINKHOLE #2 | 228 CU YD |
| SINKHOLE #3 | 106 CU YD |
| SINKHOLE #4 | 173 CU YD |
| SINKHOLE #5 | 100 CU YD |
| SINKHOLE #6 | 86 CU YD |

VOLUME OF FILL MATERIAL FROM EARTH EXCAVATION AND SPECIAL EXCAVATION

| | |
|-------------|-----------|
| SINKHOLE #1 | 915 CU YD |
| SINKHOLE #2 | 520 CU YD |
| SINKHOLE #3 | 335 CU YD |
| SINKHOLE #4 | 507 CU YD |
| SINKHOLE #5 | 444 CU YD |
| SINKHOLE #6 | 210 CU YD |



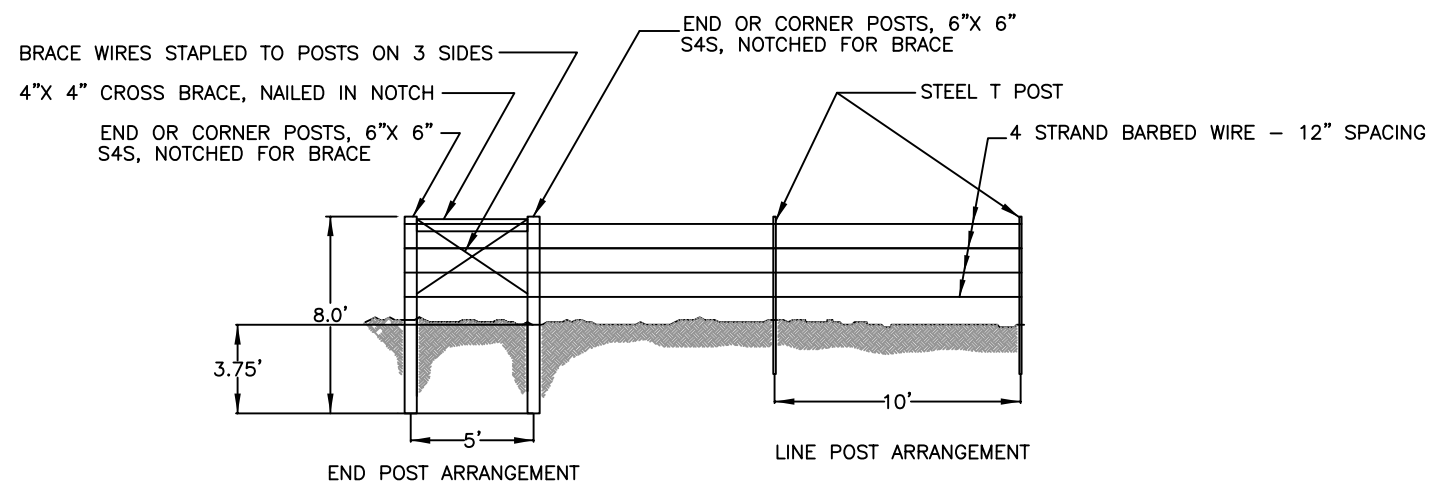
DETENTION STRUCTURE #1
 BERM OVERTOP ELEVATION = 475.5
 PIPE CULVERTS, CLASS C, TYPE 1 18"
 PE PIPE WITH SMOOTH INTERIOR
 LENGTH = 30 FOOT
 INLET ELEVATION = 473.5
 OUTLET ELEVATION = 473.0
 EARTH EXCAVATION FILL = 530 CU YD

DETENTION STRUCTURE #2
 BERM OVERTOP ELEVATION = 474.5
 PIPE CULVERTS, CLASS C, TYPE 1 24"
 PE PIPE WITH SMOOTH INTERIOR
 LENGTH = 30 FOOT
 INLET ELEVATION = 471.5
 OUTLET ELEVATION = 471.0
 EARTH EXCAVATION FILL = 130 CU YD

NOTE: EARTH EXCAVATION TO ESTABLISH SURFACE DRAINAGE UPSTREAM AND DOWNSTREAM FROM THE PROPOSED DETENTION STRUCTURES AND AS SHOWN ON SHEET 22 SHALL BE INCIDENTAL TO THE PROPOSED PIPE CULVERTS.

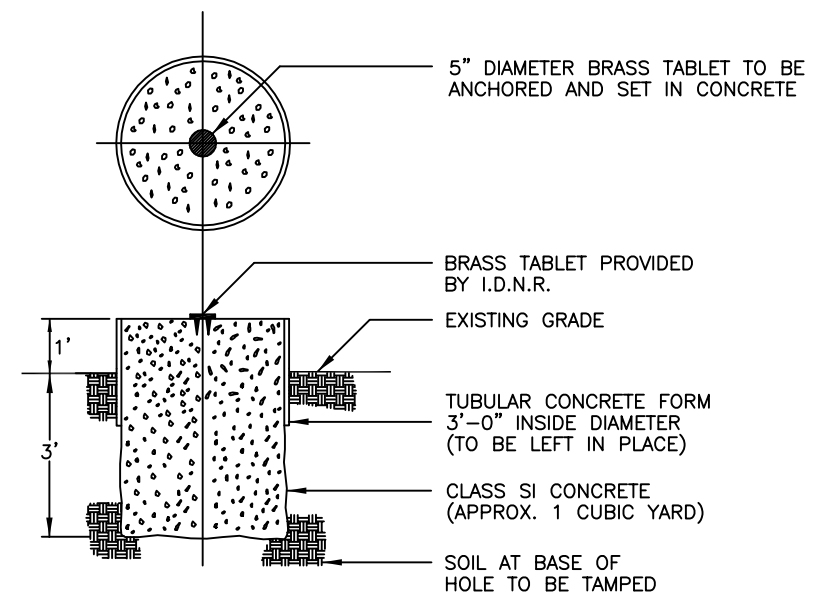
E-25 DETENTION STRUCTURE DETAIL

NOT TO SCALE



F-25 WOVEN WIRE FENCE, 4' DETAIL

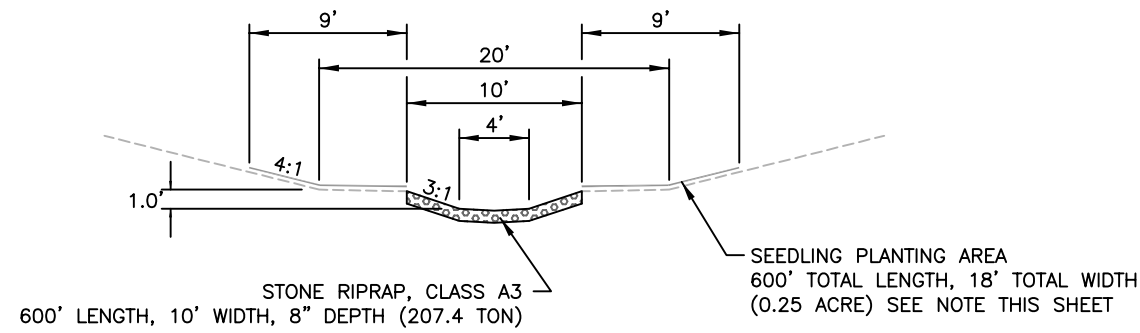
NOT TO SCALE



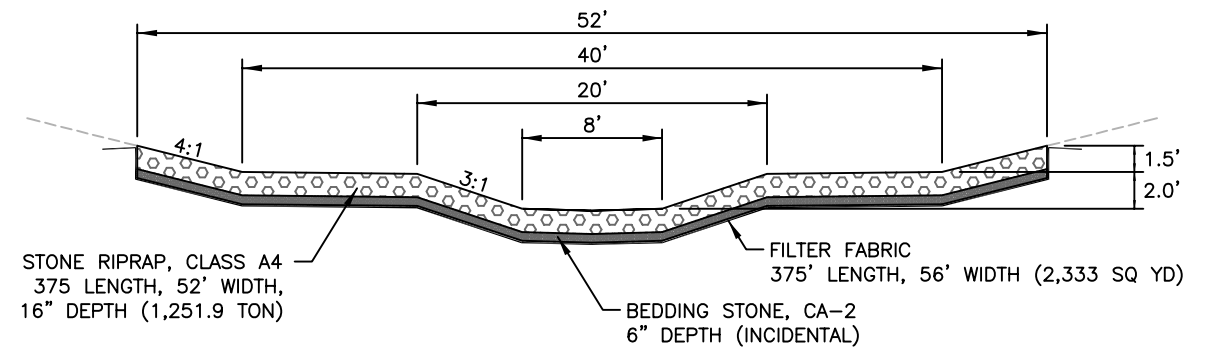
G-25 MINE OPENING MARKER DETAIL

NOT TO SCALE

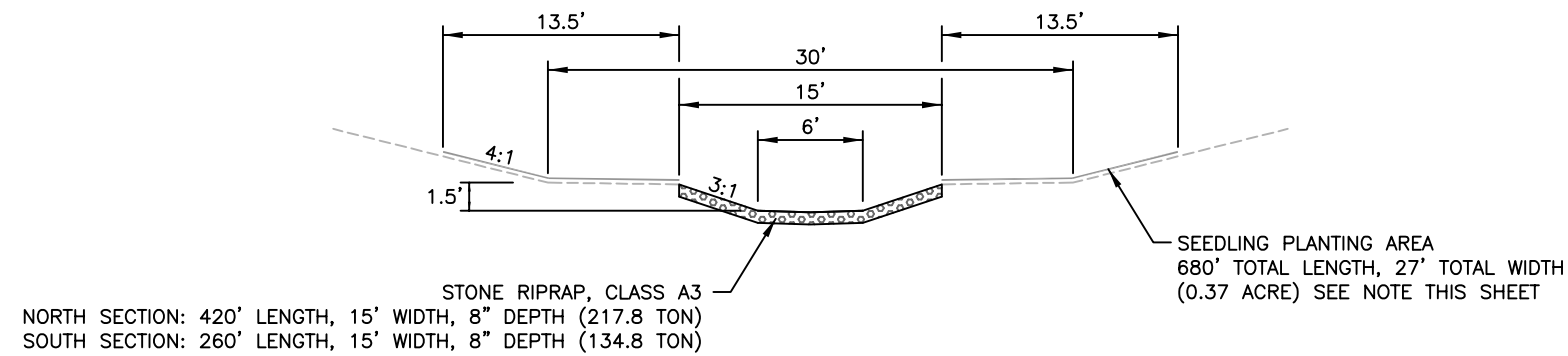
EXACT LOCATION TO BE SET BY ENGINEER



H-26 CHANNEL A DETAIL
NOT TO SCALE

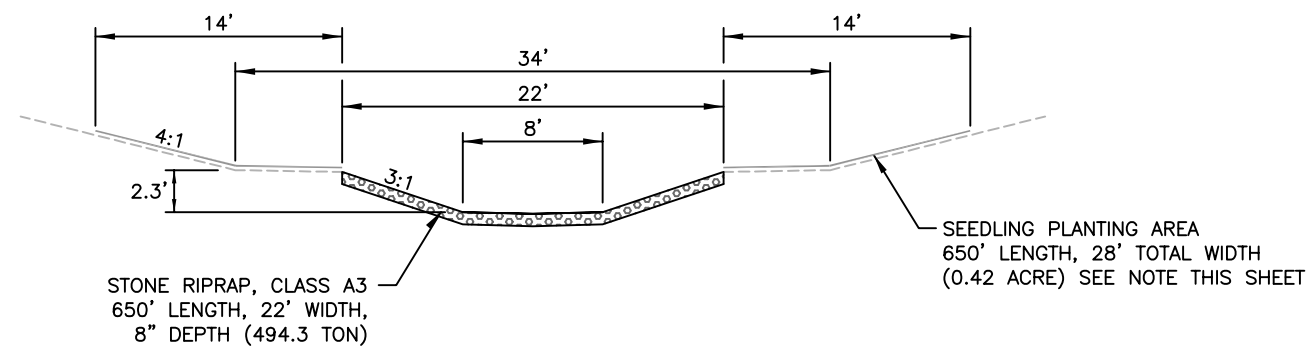


K-26 CHANNEL D DETAIL
NOT TO SCALE

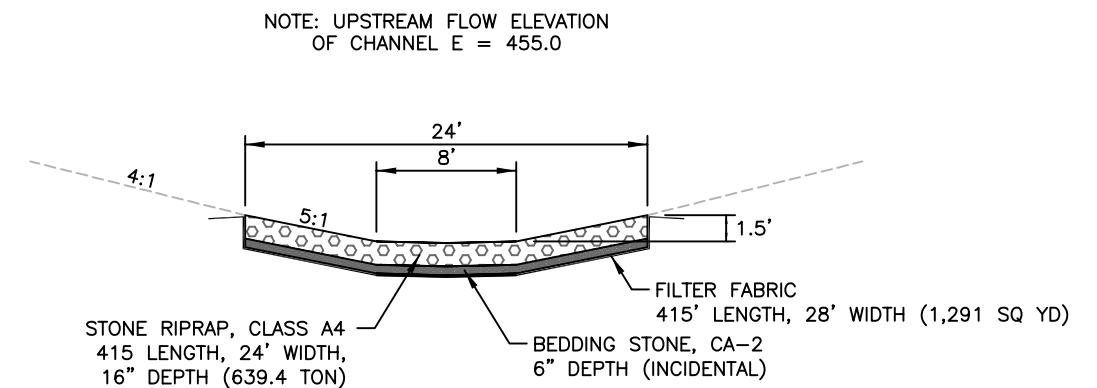


I-26 CHANNEL B DETAIL
NOT TO SCALE

NOTE:
SEEDLING PLANTING AREAS ARE ADJACENT TO CHANNELS A, B AND C (SEE DETAILS THIS SHEET). THE AREAS ARE TO BE PLANTED AT A RATE OF 1,800 SEEDLINGS PER ACRE (5 FOOT SPACING) AND IN ACCORDANCE WITH SECTION 253 OF THE SPECIAL PROVISIONS.
SEEDLINGS, 2-YEAR OLD, BARE ROOT = 18.0 UNIT



J-26 CHANNEL C DETAIL
NOT TO SCALE



L-26 CHANNEL E DETAIL
NOT TO SCALE