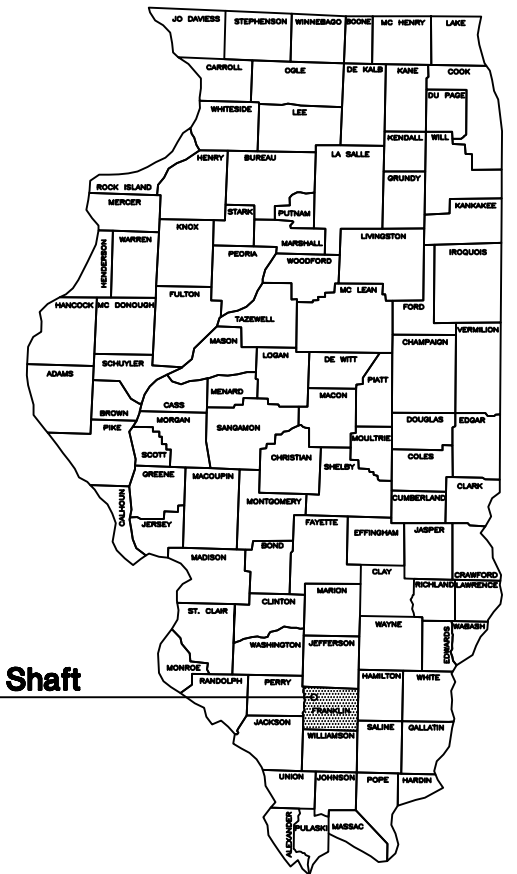


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands

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

Interstate Coal Company and Sesser Shaft
Reclamation Project
AML-GFrE-1203
Franklin County
1LR



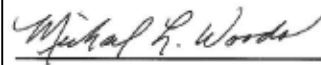
Interstate Coal Company and Sesser Shaft
Franklin County

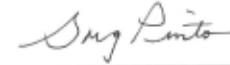
Certified Copy

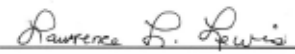
SCHEDULE OF DRAWINGS:


1. Cover Sheet
2. Summary of Quantities / General Notes / Location Map
- 3.-4. Existing & Proposed Conditions - Interstate Coal Co.
5. Existing & Proposed Conditions - Sesser Shaft
- 6.-9. Cross Sections - Interstate Coal Co.
10. Details

Prepared By IDNR Staff

Approved for Bidding:

 Michael L. Woods, Acting Director
 Office of Mines and Minerals

Approved By:

 Greg Pinto, Acting Manager
 AML Division

Approved By:

 Lawrence L. Lewis, P.E.
 IL Licensed Professional Engineer
 No. 0062-038880



| Summary of Quantities | | | | | | | |
|-----------------------|-----------------------------------|----------|------------|--------|---------|-------|--|
| # | Item | Section | Quantity | | | Unit | Rates/Remarks |
| | | | INTERSTATE | SESSER | TOTAL | | |
| 1 | Special Clearing | 201 | 1 | - | 1 | L.S. | |
| 2 | Mine Refuse Excavation | 202 | 5,602 | - | 5,602 | C.Y. | COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS |
| 3 | Earth Excavation | 202 | 7,550 | - | 7,550 | C.Y. | |
| 4 | Furnished Excavation | 204 | - | 108 | 108 | C.Y. | |
| 5 | Special Excavation | 214 | 203 | 83 | 286 | C.Y. | |
| 6 | Riprap Fill, C-4 | 216 | 40.0 | 79.4 | 119.4 | TON | |
| 7 | CA Fill, CA-1 | 216 | 21.2 | 8.3 | 29.5 | TON | |
| 8 | Filter Fabric | 216 | 42 | 17 | 59 | S.Y. | |
| 9 | Seeding | 250 | 3.6 | 0.4 | 4.0 | ACRE | |
| 10 | Nitrogen Fertilizer Nutrient | 250 | 720 | 80 | 800 | POUND | 100 LB/ACRE-TWICE |
| 11 | Phosphorus Fertilizer Nutrient | 250 | 540 | 60 | 600 | POUND | 150 LB/ACRE |
| 12 | Potassium Fertilizer Nutrient | 250 | 1,260 | 140 | 1,400 | POUND | 350 LB/ACRE |
| 13 | Agricultural Ground Limestone | 250 | 18.0 | 2.0 | 20.0 | TON | 10 TON/ACRE |
| 14 | Mulch, Method 2, Procedure 1 | IDOT 251 | 3.6 | 0.4 | 4.0 | ACRE | 2 TON/ACRE |
| 15 | Mine Refuse Treatment - Limestone | 255 | 9.0 | - | 9.0 | TON | 15 TON/ACRE AT PIT |
| 16 | Mowing | 258 | 3.6 | - | 3.6 | ACRE | |
| 17 | Special Excelsior Blanket | 286 | 187 | 93 | 180 | S.Y. | 8' WIDTH |
| 18 | Removal of Existing Structures | 501 | 1 | - | 1 | L.S. | |
| 19 | Fine Aggregate Fill Material | 501 | 1,024.0 | - | 1,024.0 | TON | |
| 20 | Mine Opening Marker | 666 | 2 | - | 2 | EACH | |
| 21 | Mobilization (Max. 6% of Bid) | 671 | 0.9 | 0.1 | 1 | L.S. | |

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

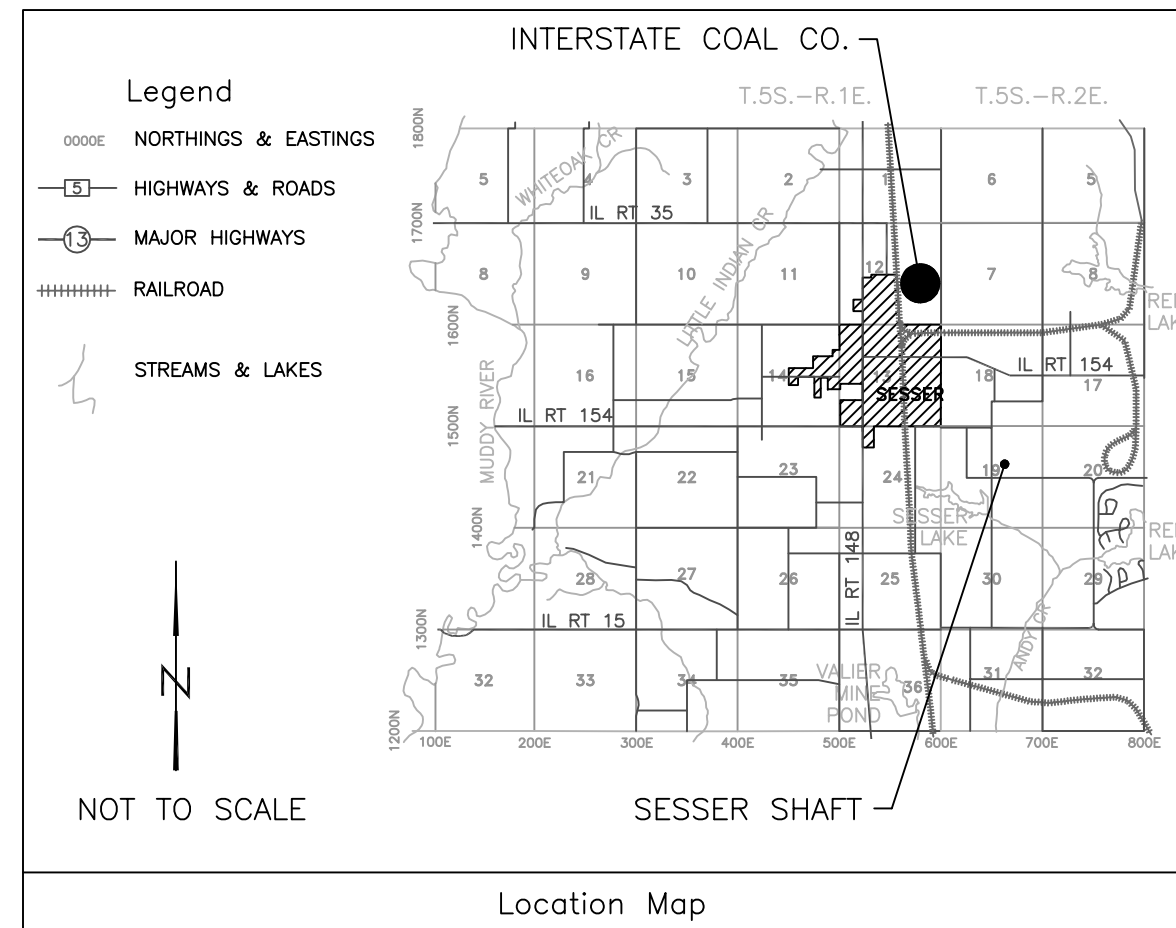
BURIAL/REMOVAL OF MATERIAL-Concrete and masonry debris designated for burial by the engineer shall be buried at least three foot below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special Provisions.

TREE REMOVAL-Trees cleared from the shall be disposed of onsite per Section 201 of the Special Provisions. Clearing of all trees may only occur from October 1st to March 31st. No trees may be removed from outside this window.

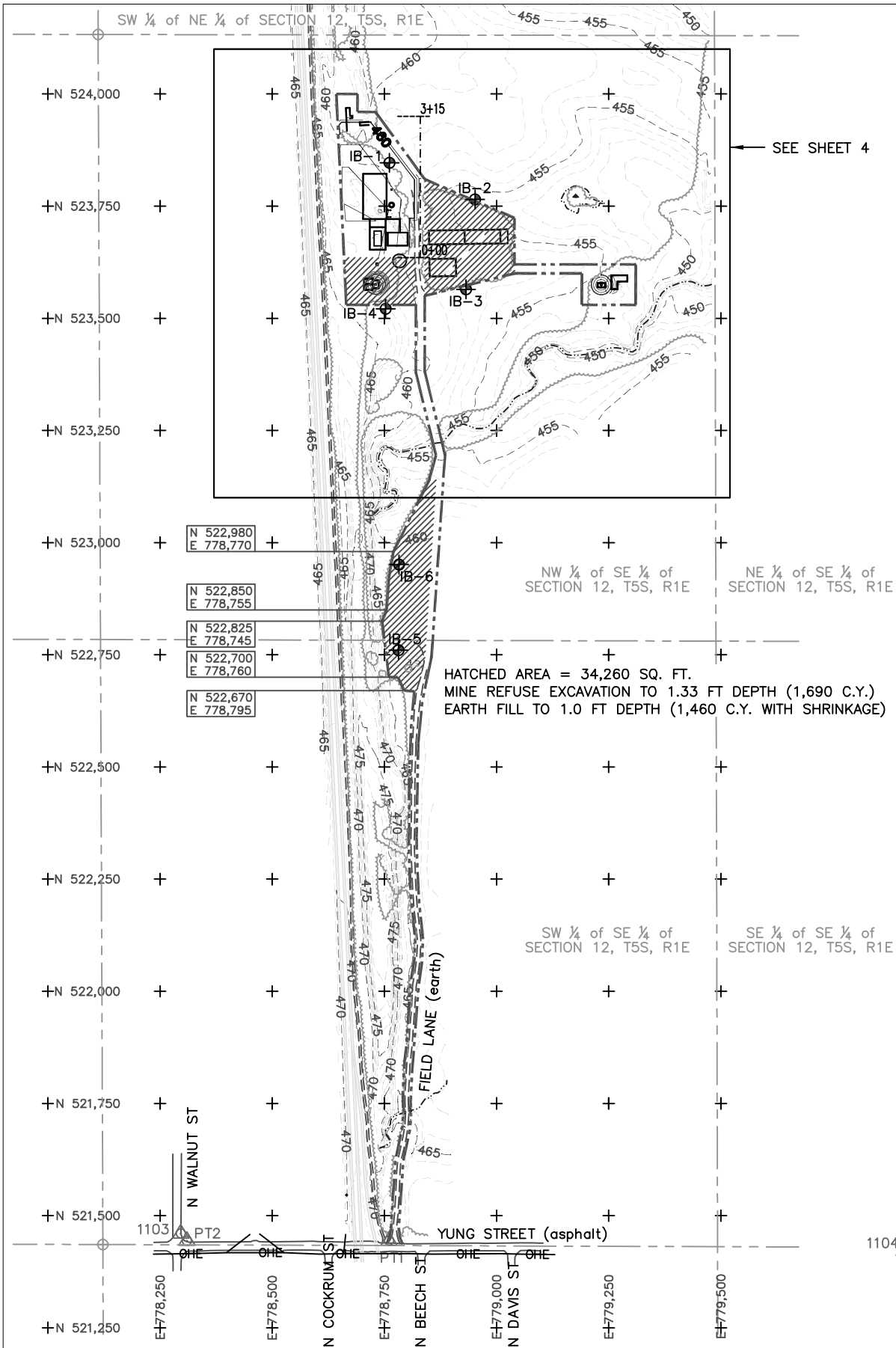
EROSION CONTROL-The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures 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 SPRING 2013 JAN 1 - MARCH 15 | | SECOND APPLICATION FALL 2013 AUG 20 - SEPT 30 | | MOWING | TOTAL QUANTITY |
| | INTERSTATE | SESSER | INTERSTATE | SESSER | | |
| SEEDING (acres) | 3.6 | 0.4 | | | EXACT DATE TO BE SET BY ENGINEER | 4.0 |
| NITROGEN FERTILIZER NUTRIENT (pounds) | 360 | 40 | 360 | 40 | | 800 |
| PHOSPHOROUS FERTILIZER NUTRIENT (pounds) | 540 | 60 | | | | 600 |
| POTASSIUM FERTILIZER NUTRIENT (pounds) | 1,260 | 140 | | | | 1,400 |
| AGRICULTURAL GROUND LIMESTONE (tons) | 18.0 | 2.0 | | | | 20.0 |
| MULCH, METHOD 2 PROCEDURE 1 (acres) | 3.6 | 0.4 | | | | 4.0 |
| MOWING (acres) | | | | | 3.6 | 3.6 |



| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|------------|------------|-----------|----------------|
| PT1 | 521,443.74 | 778,760.38 | 470.95 | REBAR WITH CAP |
| PT2 | 521,443.45 | 778,309.79 | 468.88 | REBAR WITH CAP |
| 1103 | 521,459.72 | 778,296.24 | 469.14 | MAGNETIC NAIL |
| 1104 | 521,421.35 | 779,908.14 | 469.95 | MAGNETIC NAIL |

Notes

1. WHERE NORTHINGS AND EASTINGS ARE NOT NOTED, THE CONSTRUCTION LIMITS SHALL FOLLOW THE EDGES OF THE EXISTING ROAD.

Legend

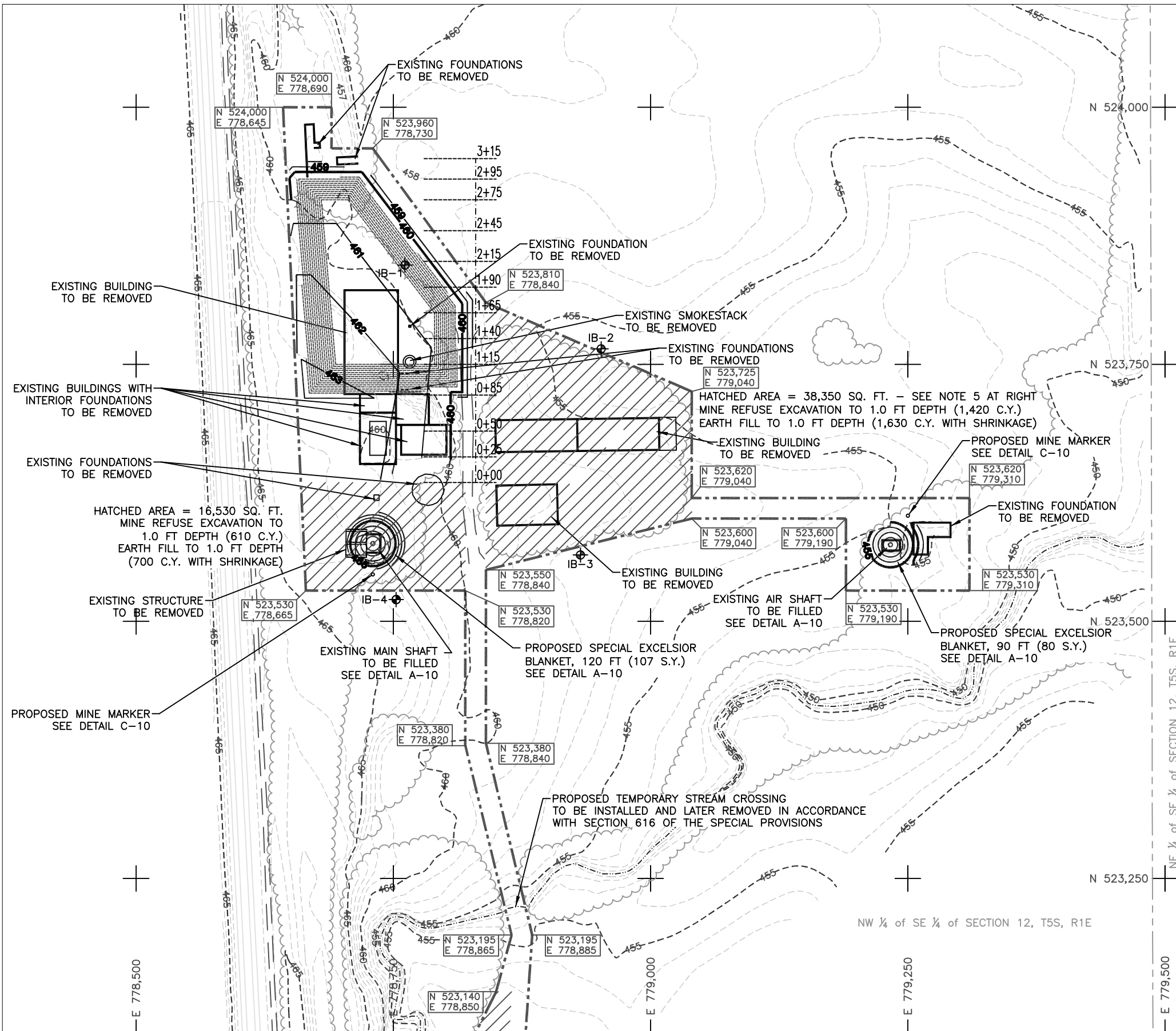
- 460--- EXISTING CONTOUR
- 460** PROPOSED CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- BASELINE FOR CROSS SECTIONS
- ~ ~ ~ TREE LINE
- SECTION LINE
- OHE OVERHEAD ELECTRIC LINE
- WATER LINE
- △ CONTROL POINT
- ⊕ BORING LOCATION
- EXISTING STRUCTURE

Interstate Coal Company

SCALE IN FEET

Drawn By: JLU Date: 6/26/12

Checked By: _____



Notes

1. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING AROUND THE SHAFTS AND DEMOLISHING THE BUILDINGS AND STRUCTURES.
2. ALL BUILDINGS, STRUCTURES AND FOUNDATIONS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 501 OF THE SPECIAL PROVISIONS. EACH SHALL BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW FINAL GRADE.
3. ALL RUBBLE AND FOUNDATIONS NOT PLACED WITHIN THE AIR SHAFT AS RUBBLE FILL ARE TO BE PLACED WITHIN THE RUBBLE PIT. ALL VOIDS ARE TO BE FILLED WITH FINE AGGREGATE FILL MATERIAL (1,024.0 TON). THE RUBBLE AND SAND SHALL THEN BE COVERED WITH MINE REFUSE AND CAPPED WITH A MINIMUM 2' EARTH MATERIAL (SEE CROSS SECTIONS).
4. THE TOP LAYER OF THE MINE REFUSE PLACED WITHIN THE PIT SHALL RECEIVE MINE REFUSE TREATMENT - LIMESTONE AT A RATE OF 15 TONS / ACRE IN ACCORDANCE WITH SECTION 255 OF THE SPECIAL PROVISIONS.
5. THE HATCHED AREA EAST OF THE MINE ROAD AND ALL DISTURBED AREAS WITHIN THE EXISTING AGRICULTURAL FIELD SHALL BE SEEDED ONLY WITH WHEAT.

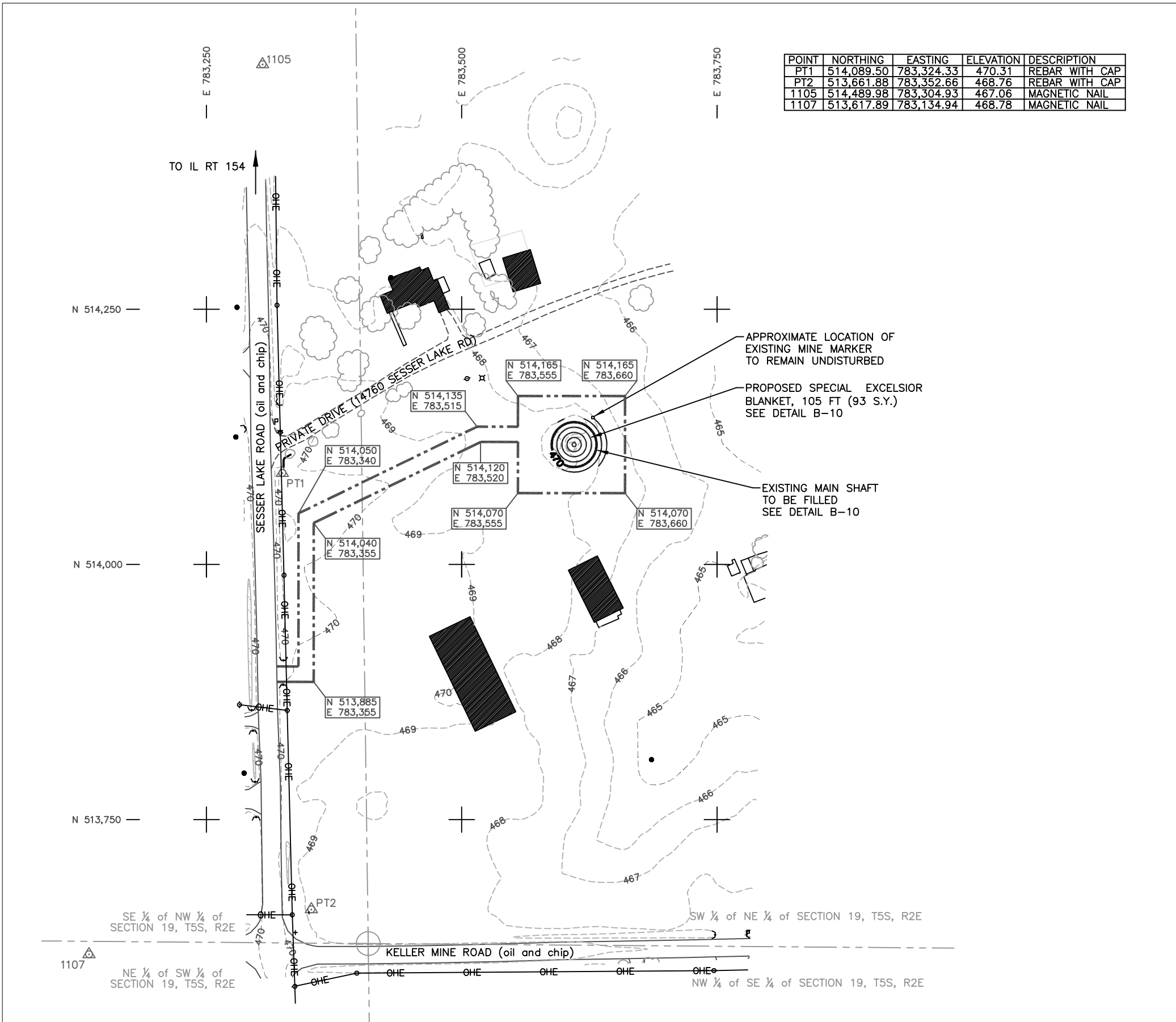
| BASELINE INFORMATION | | |
|----------------------|-----------|-----------|
| STA | NORTHING | EASTING |
| 0+00 | 523,635.0 | 778,830.0 |
| 3+15 | 523,950.0 | 778,830.0 |

Legend

- 460 --- EXISTING CONTOUR
- 460** PROPOSED CONTOUR
- - - - - PROPOSED RUBBLE PIT CONTOUR
- - - - - PROPOSED CONSTRUCTION LIMITS
- - - - - BASELINE FOR CROSS SECTIONS
- ~~~~~ TREE LINE
- SECTION LINE
- OHE --- OVERHEAD ELECTRIC LINE
- WATER LINE
- △ CONTROL POINT
- ⊕ BORING LOCATION
- EXISTING STRUCTURE

Interstate Coal Company

SCALE IN FEET



Notes



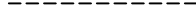





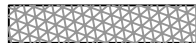
1. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING AROUND THE SHAFT.

Legend

- 470 --- EXISTING CONTOUR
- 470 — PROPOSED CONTOUR
- ~ ~ ~ TREE LINE
- - - SECTION LINE
- OHE OVERHEAD ELECTRIC LINE
- - - PROPOSED CONSTRUCTION LIMITS
- △ CONTROL POINT
- EXISTING STRUCTURE

Sesser Shaft

SCALE IN FEET

| LEGEND | |
|---|--|
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |
|  | EXISTING SUBGRADE |
|  | PROPOSED SUBGRADE WITH MINE REFUSE TREATMENT-LIMESTONE |
|  | MINE REFUSE CUT |
|  | MINE REFUSE FILL |
|  | EARTH CUT |
|  | EARTH FILL |
|  | RUBBLE & SAND FILL |

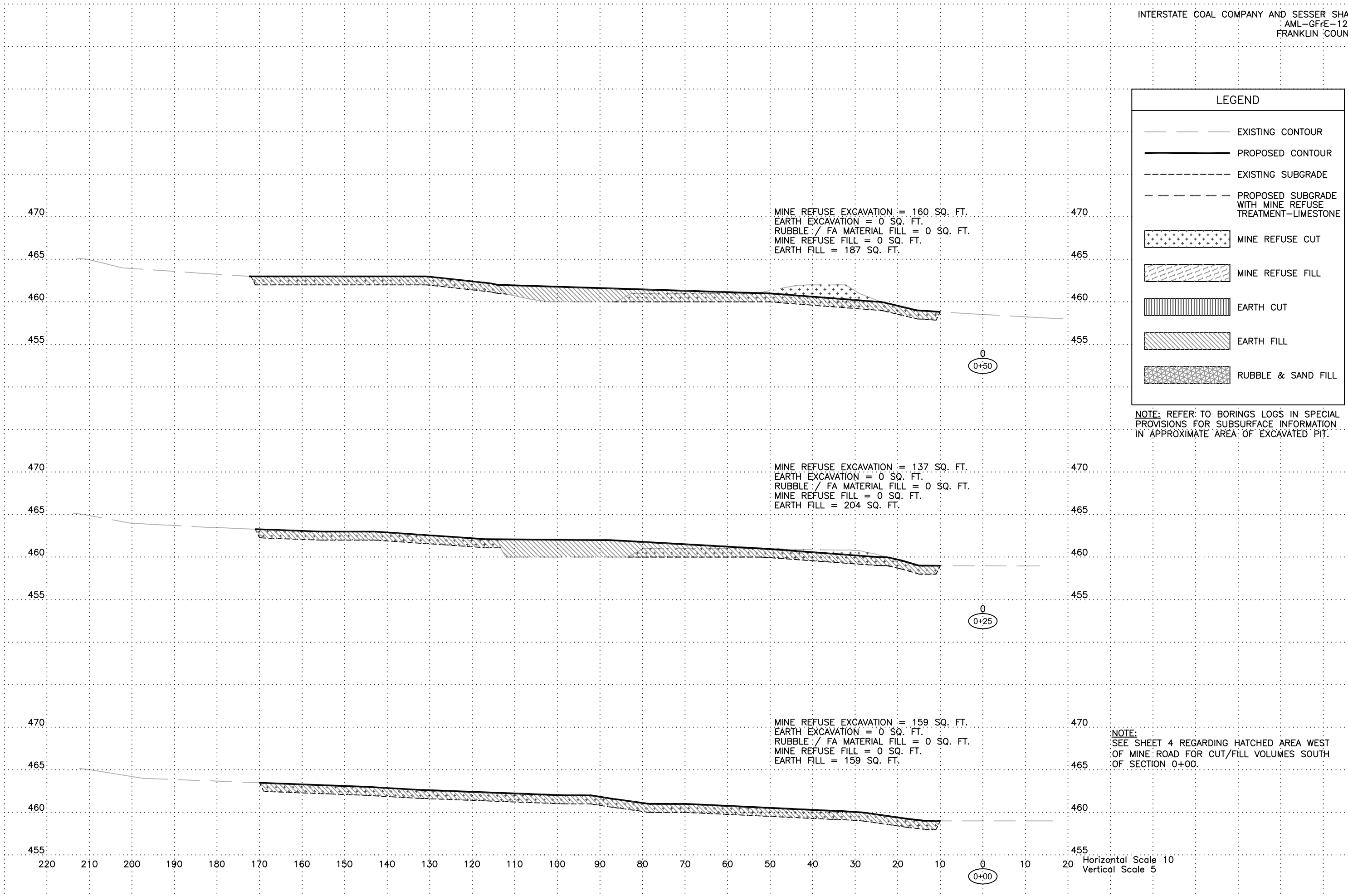
NOTE: REFER TO BORINGS LOGS IN SPECIAL PROVISIONS FOR SUBSURFACE INFORMATION IN APPROXIMATE AREA OF EXCAVATED PIT.

MINE REFUSE EXCAVATION = 160 SQ. FT.
 EARTH EXCAVATION = 0 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 0 SQ. FT.
 MINE REFUSE FILL = 0 SQ. FT.
 EARTH FILL = 187 SQ. FT.

MINE REFUSE EXCAVATION = 137 SQ. FT.
 EARTH EXCAVATION = 0 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 0 SQ. FT.
 MINE REFUSE FILL = 0 SQ. FT.
 EARTH FILL = 204 SQ. FT.

MINE REFUSE EXCAVATION = 159 SQ. FT.
 EARTH EXCAVATION = 0 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 0 SQ. FT.
 MINE REFUSE FILL = 0 SQ. FT.
 EARTH FILL = 159 SQ. FT.

NOTE:
 SEE SHEET 4 REGARDING HATCHED AREA WEST OF MINE ROAD FOR CUT/FILL VOLUMES SOUTH OF SECTION 0+00.



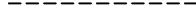





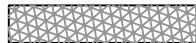


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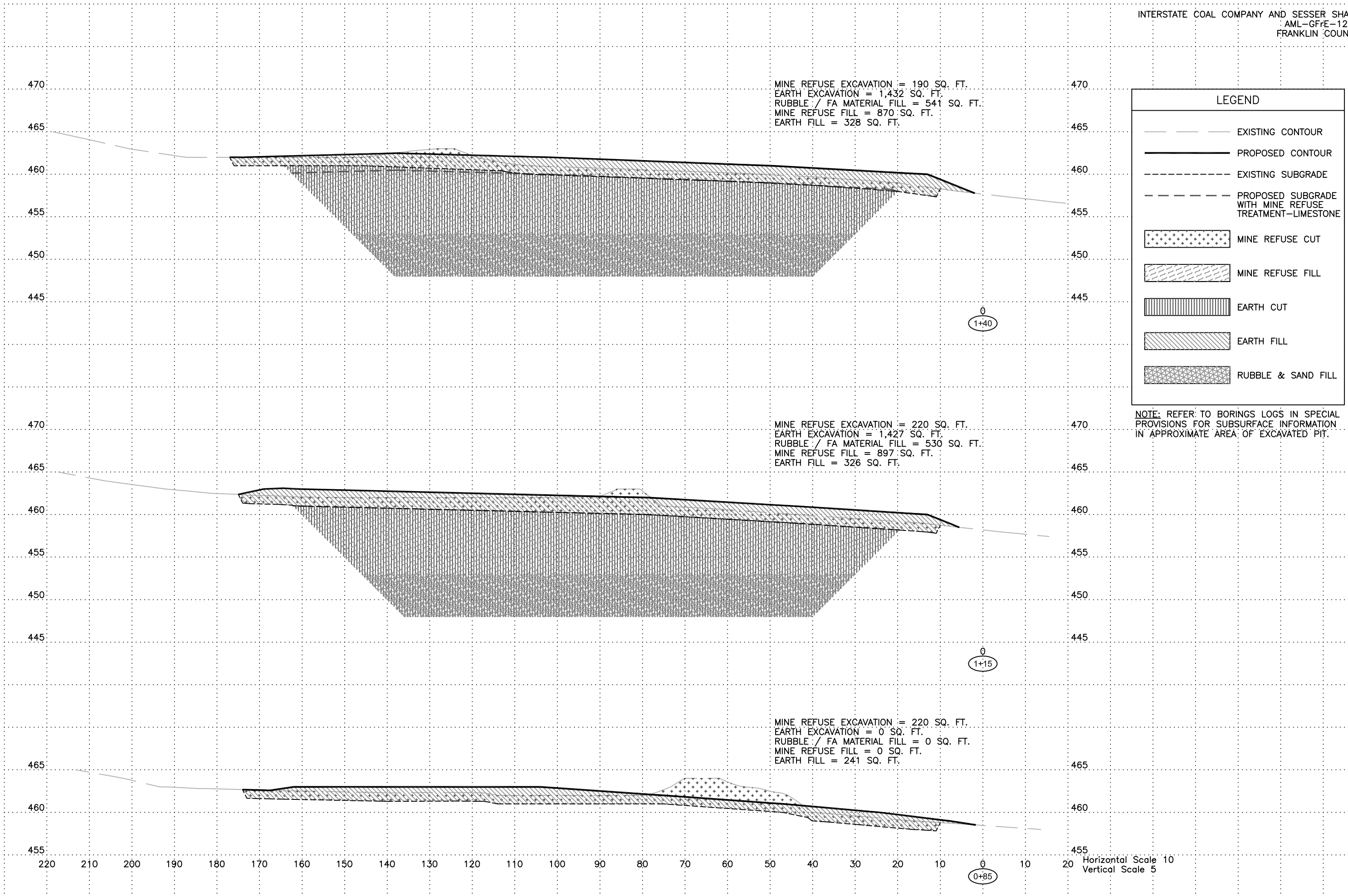
MINE REFUSE EXCAVATION = 190 SQ. FT.
 EARTH EXCAVATION = 1,432 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 541 SQ. FT.
 MINE REFUSE FILL = 870 SQ. FT.
 EARTH FILL = 328 SQ. FT.

MINE REFUSE EXCAVATION = 220 SQ. FT.
 EARTH EXCAVATION = 1,427 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 530 SQ. FT.
 MINE REFUSE FILL = 897 SQ. FT.
 EARTH FILL = 326 SQ. FT.

MINE REFUSE EXCAVATION = 220 SQ. FT.
 EARTH EXCAVATION = 0 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 0 SQ. FT.
 MINE REFUSE FILL = 0 SQ. FT.
 EARTH FILL = 241 SQ. FT.

| LEGEND | |
|---|--|
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |
|  | EXISTING SUBGRADE |
|  | PROPOSED SUBGRADE WITH MINE REFUSE TREATMENT-LIMESTONE |
|  | MINE REFUSE CUT |
|  | MINE REFUSE FILL |
|  | EARTH CUT |
|  | EARTH FILL |
|  | RUBBLE & SAND FILL |

NOTE: REFER TO BORINGS LOGS IN SPECIAL PROVISIONS FOR SUBSURFACE INFORMATION IN APPROXIMATE AREA OF EXCAVATED PIT.



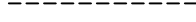





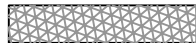


Horizontal Scale 10
 Vertical Scale 5

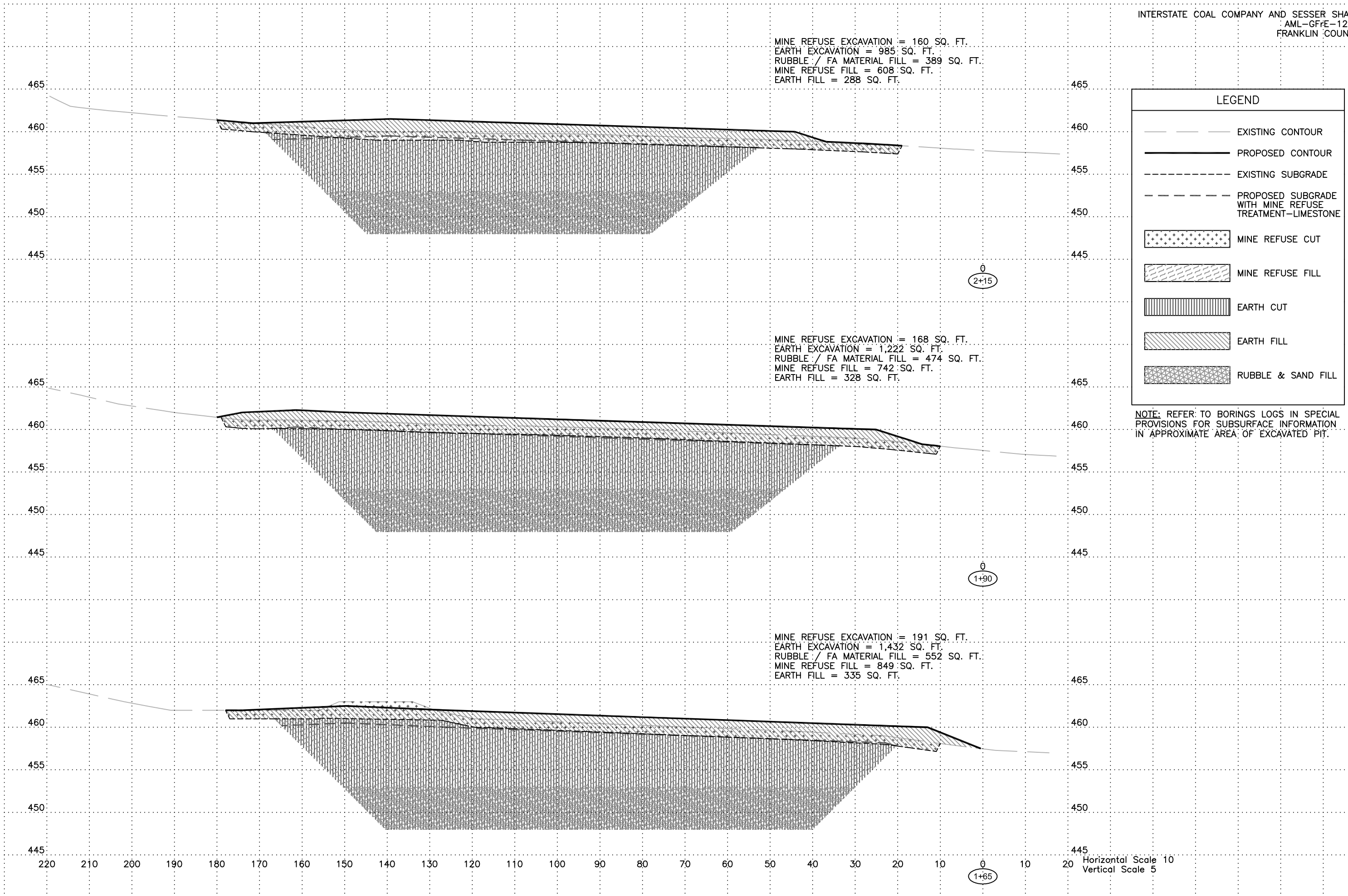
MINE REFUSE EXCAVATION = 160 SQ. FT.
 EARTH EXCAVATION = 985 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 389 SQ. FT.
 MINE REFUSE FILL = 608 SQ. FT.
 EARTH FILL = 288 SQ. FT.

MINE REFUSE EXCAVATION = 168 SQ. FT.
 EARTH EXCAVATION = 1,222 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 474 SQ. FT.
 MINE REFUSE FILL = 742 SQ. FT.
 EARTH FILL = 328 SQ. FT.

MINE REFUSE EXCAVATION = 191 SQ. FT.
 EARTH EXCAVATION = 1,432 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 552 SQ. FT.
 MINE REFUSE FILL = 849 SQ. FT.
 EARTH FILL = 335 SQ. FT.

| LEGEND | |
|---|--|
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |
|  | EXISTING SUBGRADE |
|  | PROPOSED SUBGRADE WITH MINE REFUSE TREATMENT-LIMESTONE |
|  | MINE REFUSE CUT |
|  | MINE REFUSE FILL |
|  | EARTH CUT |
|  | EARTH FILL |
|  | RUBBLE & SAND FILL |

NOTE: REFER TO BORINGS LOGS IN SPECIAL PROVISIONS FOR SUBSURFACE INFORMATION IN APPROXIMATE AREA OF EXCAVATED PIT.





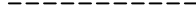





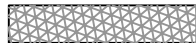
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MINE REFUSE EXCAVATION = 0 SQ. FT.
 EARTH EXCAVATION = 0 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 0 SQ. FT.
 MINE REFUSE FILL = 0 SQ. FT.
 EARTH FILL = 0 SQ. FT.

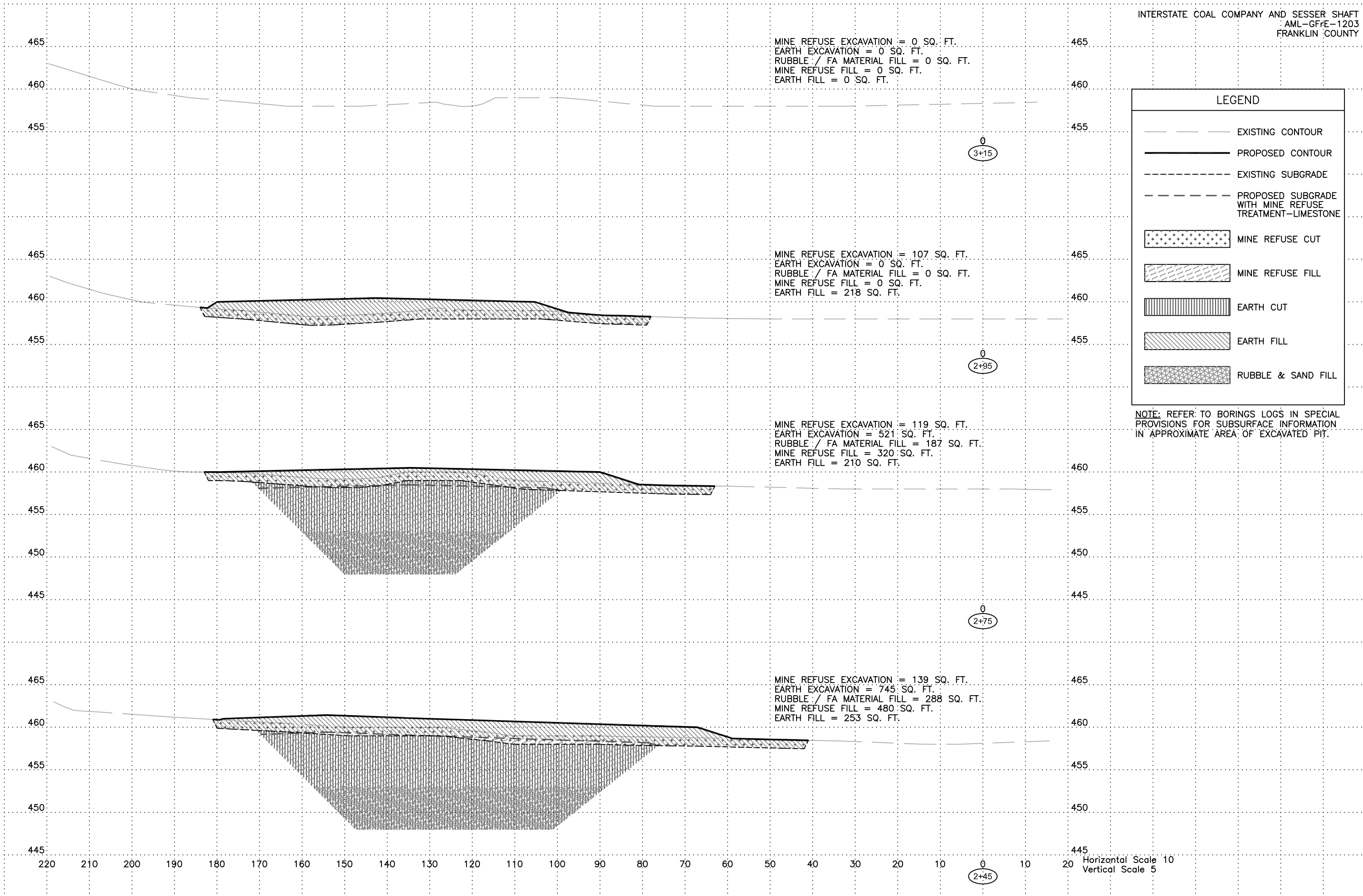
MINE REFUSE EXCAVATION = 107 SQ. FT.
 EARTH EXCAVATION = 0 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 0 SQ. FT.
 MINE REFUSE FILL = 0 SQ. FT.
 EARTH FILL = 218 SQ. FT.

MINE REFUSE EXCAVATION = 119 SQ. FT.
 EARTH EXCAVATION = 521 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 187 SQ. FT.
 MINE REFUSE FILL = 320 SQ. FT.
 EARTH FILL = 210 SQ. FT.

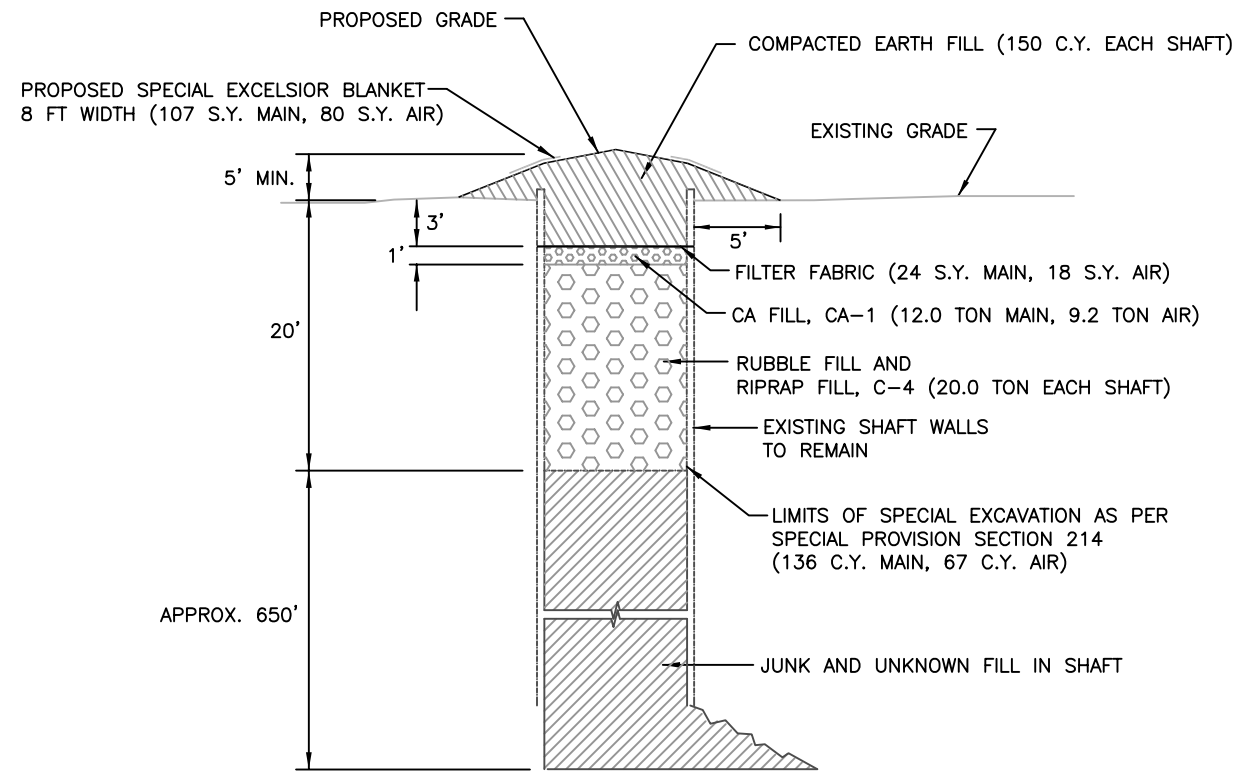
MINE REFUSE EXCAVATION = 139 SQ. FT.
 EARTH EXCAVATION = 745 SQ. FT.
 RUBBLE / FA MATERIAL FILL = 288 SQ. FT.
 MINE REFUSE FILL = 480 SQ. FT.
 EARTH FILL = 253 SQ. FT.

| LEGEND | |
|---|--|
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |
|  | EXISTING SUBGRADE |
|  | PROPOSED SUBGRADE WITH MINE REFUSE TREATMENT-LIMESTONE |
|  | MINE REFUSE CUT |
|  | MINE REFUSE FILL |
|  | EARTH CUT |
|  | EARTH FILL |
|  | RUBBLE & SAND FILL |

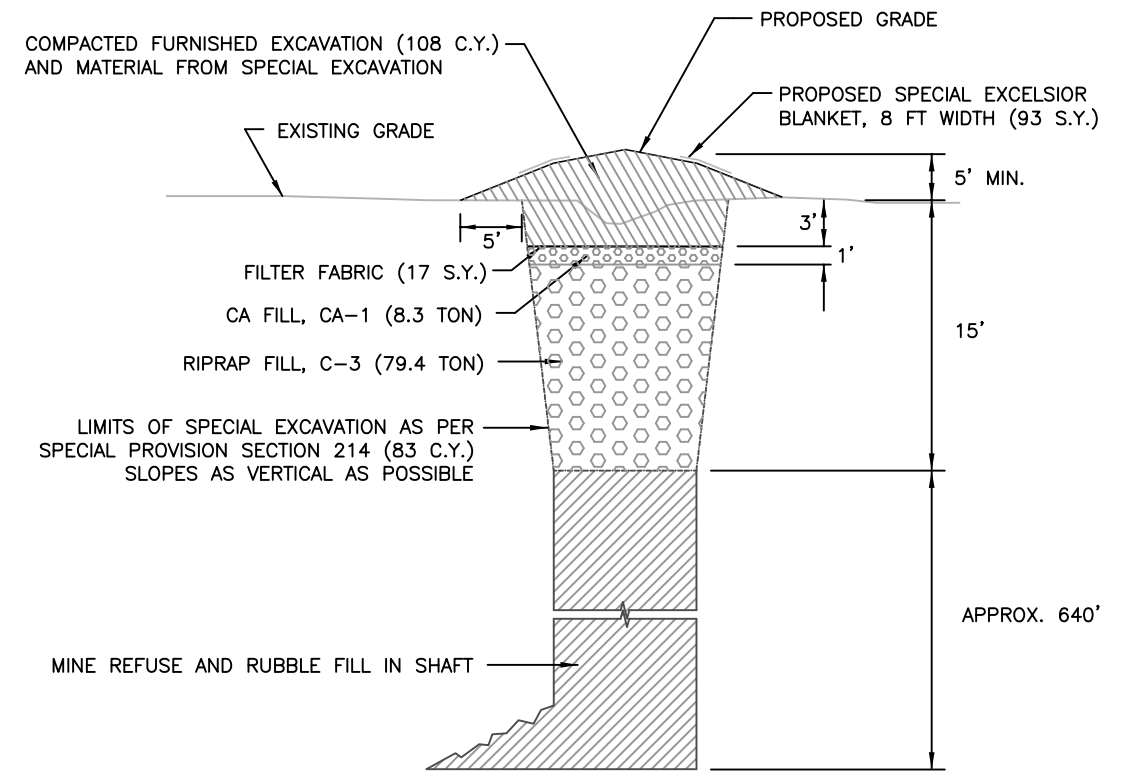
NOTE: REFER TO BORINGS LOGS IN SPECIAL PROVISIONS FOR SUBSURFACE INFORMATION IN APPROXIMATE AREA OF EXCAVATED PIT.



Horizontal Scale 10
 Vertical Scale 5



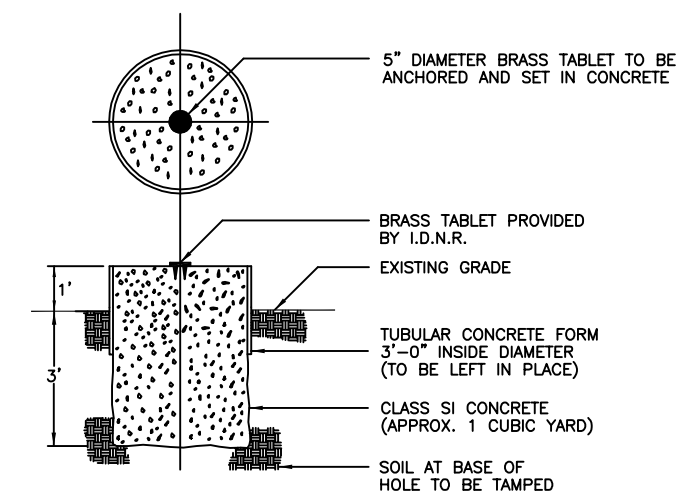
A
10 INTERSTATE COAL COMPANY MAIN & AIR SHAFT FILLING DETAIL
NOT TO SCALE



B
10 SESSER SHAFT MAIN 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 INTERSTATE MAIN SHAFT ARE APPROXIMATELY 12' X 18', WITH THE TOP OF FILL AT AN AVERAGE 3' BELOW THE CONCRETE WALLS. THE DIMENSIONS OF THE INTERSTATE AIR SHAFT ARE APPROXIMATELY 11' X 15', WITH THE TOP OF FILL AT AN AVERAGE 9' BELOW THE ADJACENT GRADE. THE NATURE OF THE MATERIAL IN THESE TWO SHAFTS IS NOT KNOWN. AS MUCH TRASH AND MATERIAL AS POSSIBLE (TO AT LEAST 20' DEPTH) SHALL BE EXCAVATED FROM THE SHAFTS IN ACCORDANCE WITH SECTION 214 OF THE SPECIAL PROVISIONS.
4. THE DIMENSIONS OF THE SESSER MAIN SHAFT ARE ESTIMATED TO BE 10' X 15'. THE NATURE OF THE MATERIAL WITHIN THE SHAFT IS MINE REFUSE AND RUBBLE.



C
10 MINE OPENING MARKER DETAIL
NOT TO SCALE
EXACT LOCATION TO BE SET BY ENGINEER