

**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

Peabody Coal Company #10  
 Reclamation Project - Phase II  
 AML-GCtE-1310  
 Christian County  
 1LR

Peabody Coal Company #10  
 Christian County



**NOTE:**

A Pre-Bid Meeting for this project will be held on  
 Wednesday, February 19, 2014 at 10:30 a.m., on site at the  
 southeast corner of the mine refuse disposal mound.


*Certified Copy*

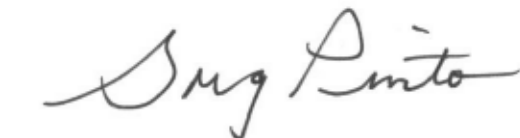
SCHEDULE OF DRAWINGS:

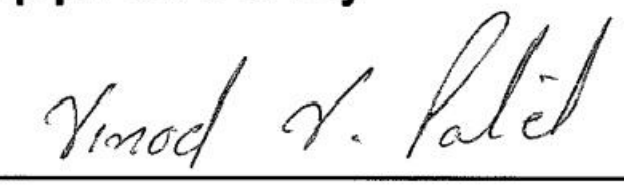
1. Cover Sheet
2. Summary of Quantities / General Notes / Location Map
- 3.-4. Existing and Proposed Conditions
- 5.-6. Cross Sections


Prepared By IDNR Staff

**CONTRACT NO. M1310**

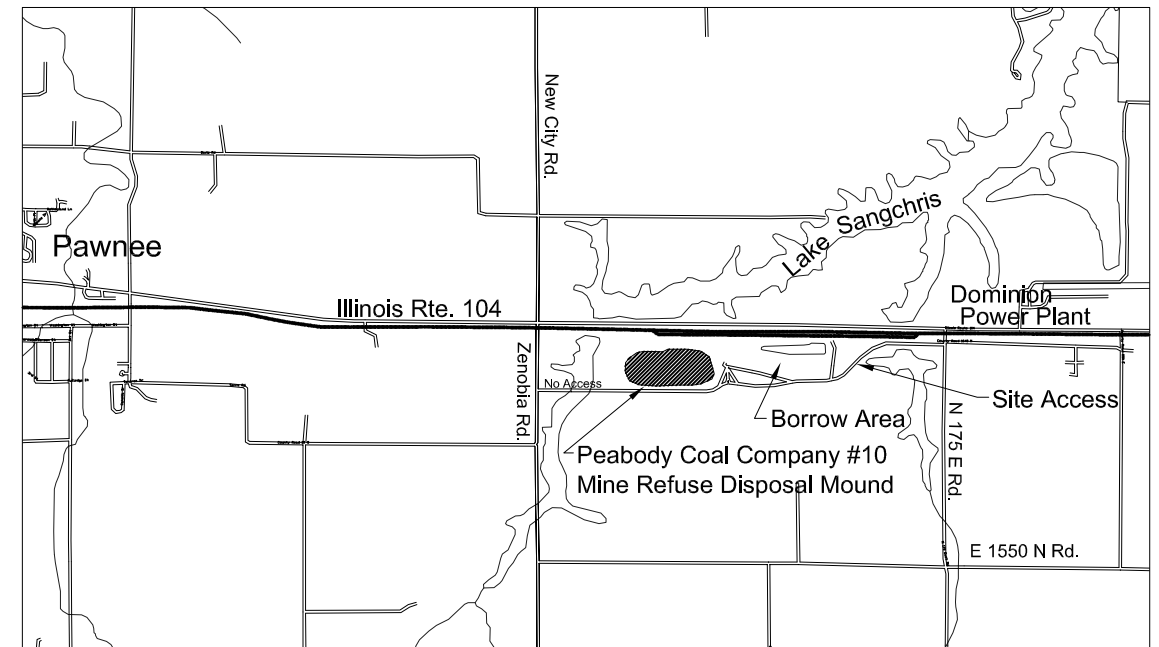
Approved for Bidding:  
  
 Michael L. Woods, Director  
 Office of Mines and Minerals

Approved By:  
  
 Greg Pinto, Acting Manager  
 AML Division

Approved By:  
  
 Vinodchandra V. Patel  
 IL Licensed Professional Engineer  
 No. 062.046043



Summary of Quantities					
Item #	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	Special Clearing	201	1	L SUM	
NRM20210	Earth Excavation	202	135,184	CU YD	Compaction in accordance with 205
25000305	Seeding, Class 3A, So. IL Slope Mix.	IDOT 250	23.9	ACRE	
25000400	Nitrogen Fertilizer Nutrient	IDOT 250	5,736	POUND	240 lb/acre
25000500	Phosphorous Fertilizer Nutrient	IDOT 250	4,780	POUND	200 lb/acre
25000600	Potassium Fertilizer Nutrient	IDOT 250	11,950	POUND	500 lb/acre
25000700	Agricultural Ground Limestone	IDOT 250	239	TON	10 ton/acre
25100115	Mulch, Method 2, Procedure 1	IDOT 251	23.9	ACRE	2 ton/acre
NRM28040	Perimeter Erosion Barrier	280	5,497	FOOT	
NRM28610	Special Excelsior Blanket	286	8,822	SQ YD	8 ft wide
NRM61410	Dewatering Impoundments	614	1	L SUM	
NRM67110	Mobilization (Max. 6% of Bid)	671	1	L SUM	



Location Map

**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 rates specified on the plans.

The Contractor is responsible for visiting the site and familiarizing themselves 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.

The construction limits will be staked by the Contractor prior to construction. The Contractor is responsible for the repair, and/or restitution at their own expense, for all damages done to any area outside the construction limits.

Unless noted on the plans, all onsite 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 on the plans are to be maintained to the satisfaction of the Engineer.

Application rates specified on the plans are shown in the Summary of Quantities table – 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.

**EROSION CONTROL** – The Contractor shall schedule their 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 on the plans.

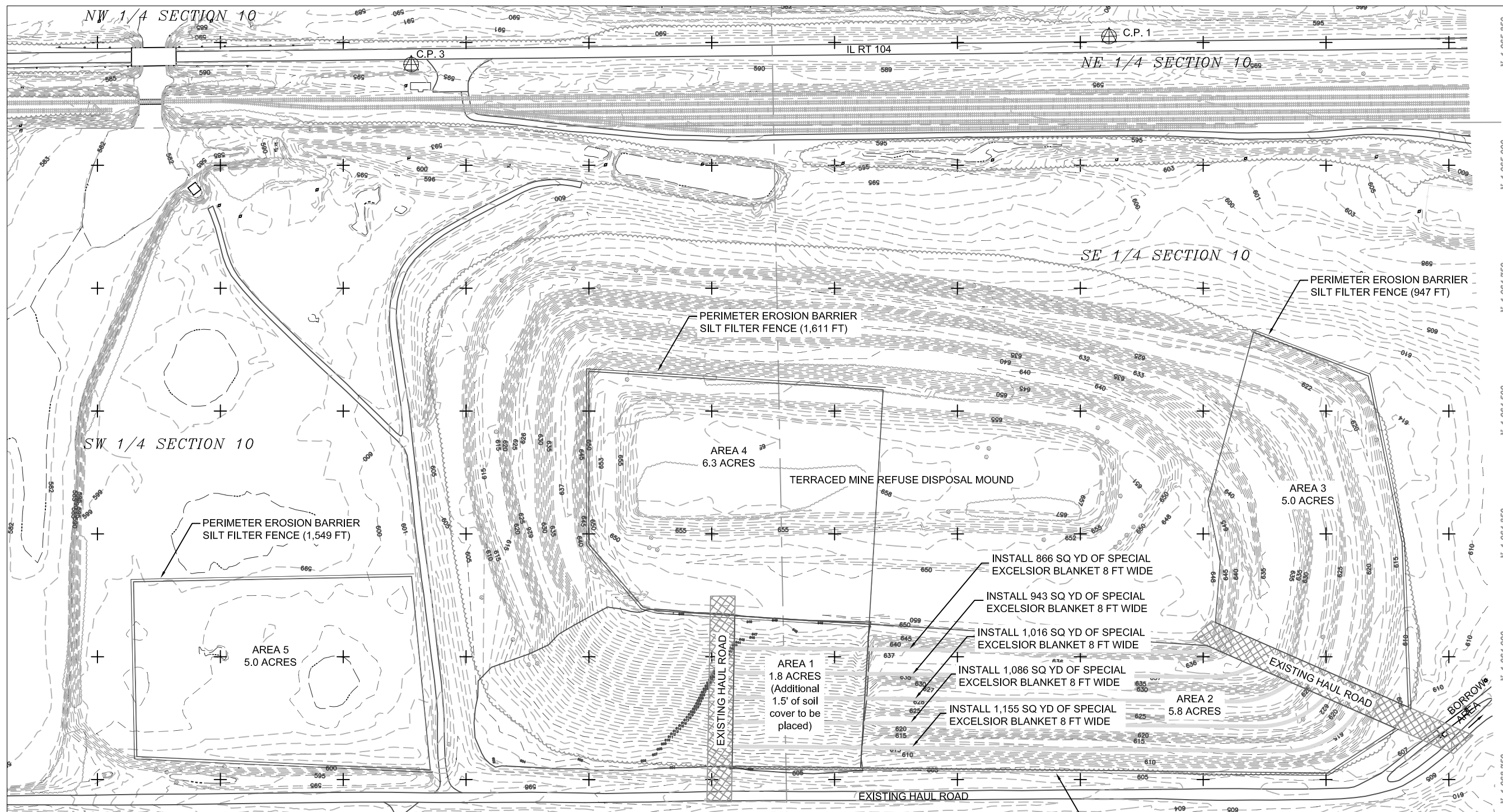
**MULCHING** – Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified on the plans. The mulch is to be anchored into the soil in accordance with the requirements for Method 2, Procedure 1 of Article 251.03 of the Standard Specifications. 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, & Mulching – Areas 1, 2, & 3**

ITEM (unit)	August 15, 2014 – September 30, 2014	March 15, 2015 – April 10, 2015	August 15, 2015 – September 30, 2015	TOTAL QUANTITY
SEEDING (acres)	12.6 Acres			12.6 Acres
AGRICULTURAL GROUND LIMESTONE (tons)	126 Tons (10 ton/acre)			126 Tons
NITROGEN FERTILIZER NUTRIENT (pounds)	1,512 Pounds (120 lb/acre)	1,512 Pounds (120 lb/acre)		3,024 Pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,260 Pounds (100 lb/acre)	1,260 Pounds (100 lb/acre)		2,520 Pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,150 Pounds (250 lb/acre)	3,150 Pounds (250 lb/acre)		6,300 Pounds
MULCH, METHOD 2 PROCEDURE 1 (acres)	12.6 Acres			12.6 Acres

**Schedule of Seeding, Fertilizer Nutrients, & Mulching – Areas 4 & 5**

ITEM (unit)	August 15, 2014 – September 30, 2014	March 15, 2015 – April 10, 2015	August 15, 2015 – September 30, 2015	TOTAL QUANTITY
SEEDING (acres)		11.3 Acres		11.3 Acres
AGRICULTURAL GROUND LIMESTONE (tons)		113 Tons (10 ton/acre)		113 Tons
NITROGEN FERTILIZER NUTRIENT (pounds)		1,356 Pounds (120 lb/acre)	1,356 Pounds (120 lb/acre)	2,712 Pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)		1,130 Pounds (100 lb/acre)	1,130 Pounds (100 lb/acre)	2,260 Pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)		2,825 Pounds (250 lb/acre)	2,825 Pounds (250 lb/acre)	5,650 Pounds
MULCH, METHOD 2 PROCEDURE 1 (acres)		11.3 Acres		11.3 Acres



**Traverse Layout Data**

C.P. 1 24" IRON ROD WITH RED CAP N:1065202.1434 E:2478058.5091 EL. 593.43	C.P. 2 24" IRON ROD WITH RED CAP N:1065271.4088 E:2479059.9910 EL. 594.31	C.P. 3 24" IRON ROD WITH RED CAP N:1065205.0984 E:2476638.3665 EL. 592.64
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**Peabody Coal Company #10**

0 100 200  
SCALE IN FEET

**Legend**

---400---	EXISTING CONTOUR
—	EDGE OF ROAD
~~~~~	TREELINE
— · — · —	EDGE OF WATER
⊕	SURVEY CONTROL POINT

**SOIL PLACEMENT**

Areas of the existing mine refuse disposal mound are in the process of being reshaped to fill in and eliminate terraced waterways on the side slopes of the mound. The material used to fill in the terraces and reshape the mound is a combination of coal combustion by-product and municipal water treatment lime. The placement of these materials and reshaping is the responsibility of the site owner. Filling and reshaping operations are on-going and are expected to continue for several years.

The Contractor's responsibility will be to place cover soil to a thickness of three feet over areas that have been satisfactorily filled and reshaped. Area 1 has already received approximately 18 inches of cover soil. This project provides for an additional 18 inches of cover soil to be placed over the existing cover soil. Area 2 has been reshaped and is ready for cover soil. The filling and reshaping work on Area 3 is expected to be complete by June 30, 2014. The filling and reshaping work on Areas 4 and 5 is expected to be complete by December 31, 2014. The Department reserves the right to increase or decrease the size of these areas based on materials available for the filling and reshaping operation.

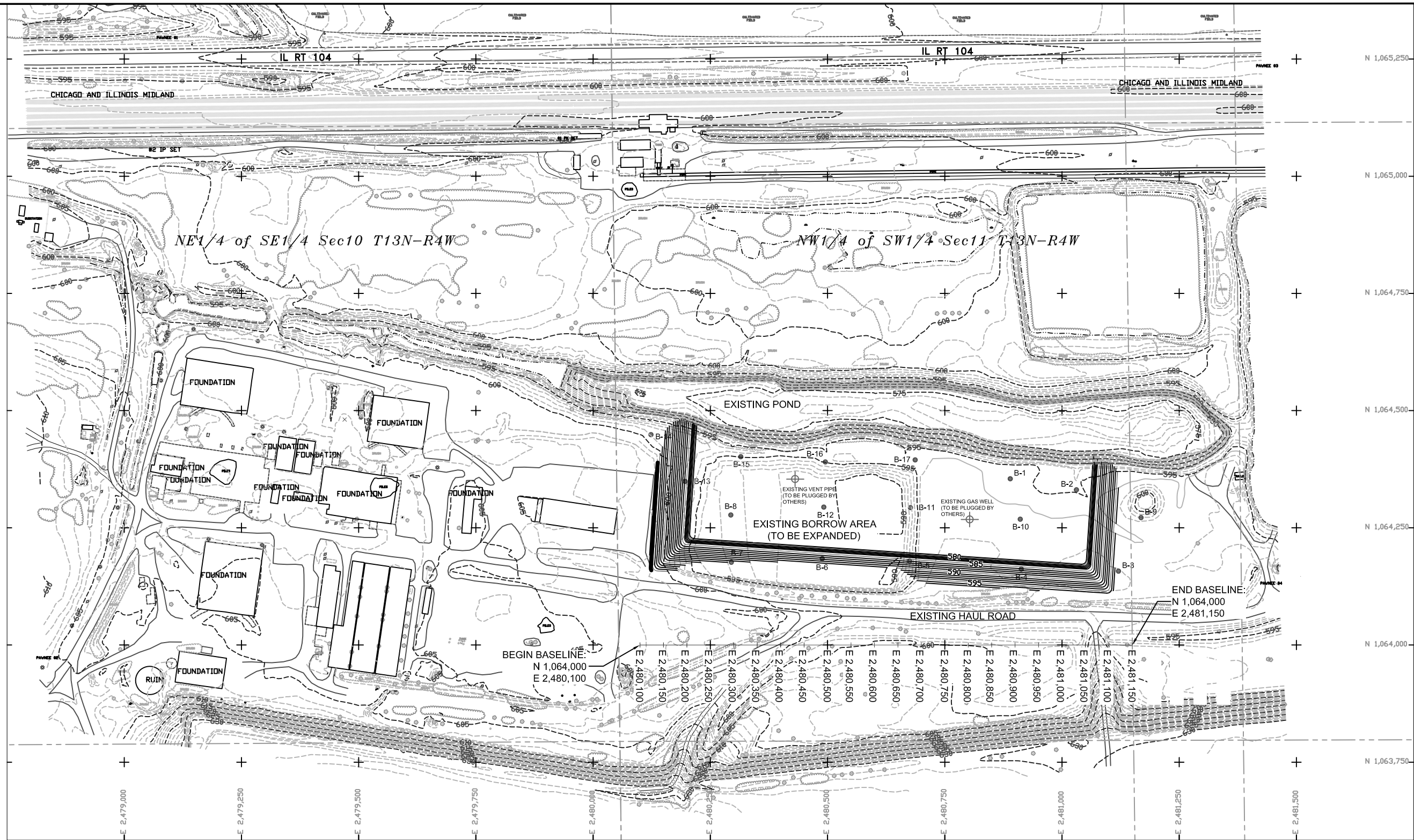
All work in Areas 1, 2, and 3 (including seeding and mulching) shall be completed by September 30, 2014. All work in Areas 4 and 5 (including seeding and mulching) shall be completed by April 10, 2015.

State of Illinois  
Department of Natural Resources

Peabody Coal Company #10  
Reclamation Project - Phase II  
AML-GCIE-1310  
Christian County

Drawn By: B. Johnstun Date: 01/2014  
Checked By: \_\_\_\_\_

Existing and Proposed Conditions  
Mine Refuse Disposal Mound  
Sheet  
3 of 8



State of Illinois  
Department of Natural Resources

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AML-GCIE-1310  
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Drawn By: B. JOHNSRUD Date: 01/2014  
Checked By:

**USE OF EXISTING HAUL ROADS:**

The use of existing haul roads shall be performed in a manner that will not negatively affect the continued use of the haul roads by others. Deliveries of Coal Combustion By-product and Water Treatment Lime are expected to continue throughout the construction period.

The contractor will be required to control dust caused by the transport of soil over the haul roads. All work shall be performed in a manner that does not impede the operations of others using the haul roads.

**REVEGETATION OF BORROW AREA:**

Re-establishing vegetation around the borrow area shall be the responsibility of the land owner.

The contractor shall only be responsible for re-establishing vegetation on the areas of the mine refuse disposal mound where soil has been placed over the reshaped surface.

**DEWATERING IMPOUNDMENTS:**

Water in the existing borrow area (Impoundment A) and the pond to the north (Impoundment B) must be pumped out to facilitate the earth excavation operation. The current volume of water in the existing borrow area is estimated to be 913,000 gallons. The volume of water in the pond to the north is estimated to be 18,800,000 gallons.

The contract lump sum price for Dewatering Impoundments shall include the initial dewatering and all subsequent pumping required to maintain dewatered conditions to allow for earth removal as shown on the plans.

---400---	EXISTING CONTOUR
—400—	PROPOSED CONTOUR
—	EDGE OF ROAD
~~~~~	TREELINE
- - - - -	EDGE OF WATER
● B-1	BORING

Legend

Peabody Coal Company #10

SCALE IN FEET

Existing and Proposed Conditions  
Expanded Borrow Area  
Sheet  
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