

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

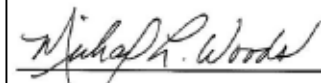
Peabody No. 10
Reclamation Project
AML-GVeE-1210
Christian county
2LR

SCHEDULE OF DRAWINGS:

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

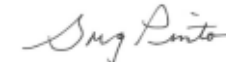
Prepared By IDNR Staff

Approved for Bidding:



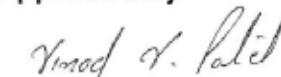
Michael L. Woods, Director
Office of Mines and Minerals

Approved By:



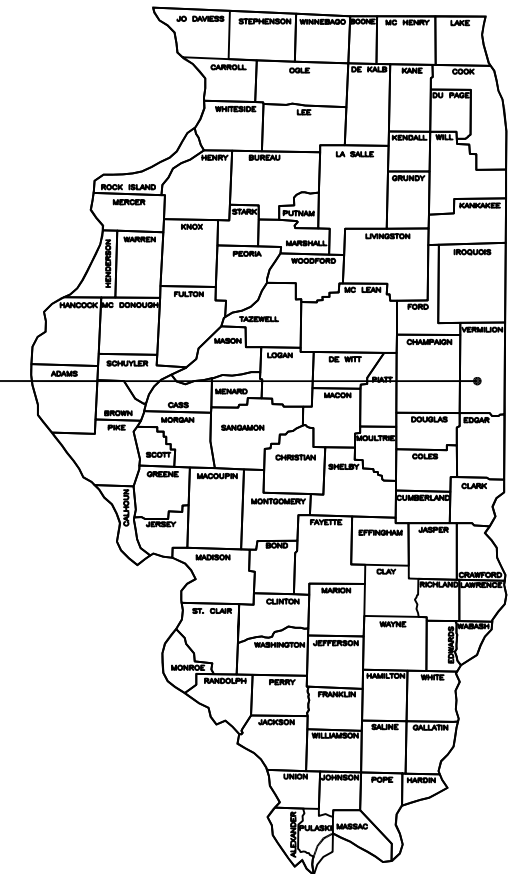
Greg Pinto, Acting Manager
AML Division

Approved By:



Vinodchandra V. Patel
IL Licensed Professional Engineer
No. 062.046043

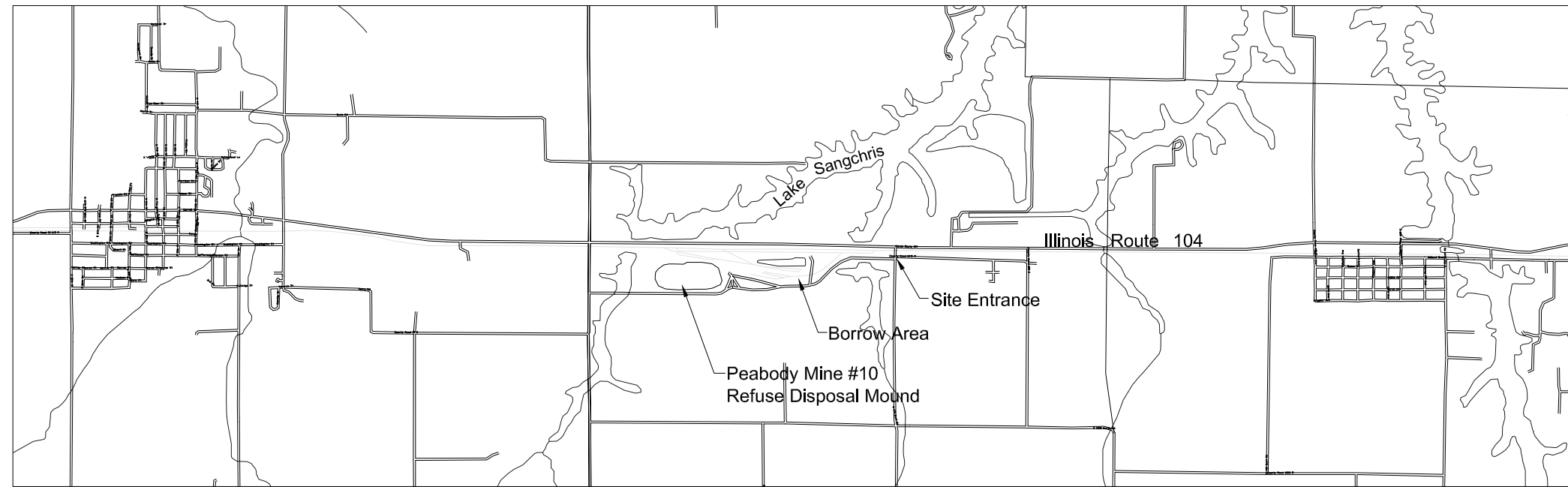
Kickapoo State Park Mine
Vermilion County



NOTE:

A Pre-Bid Meeting for this project will be held on Thursday, January 10th, at 10:30 A.M., on-site at the southwest corner of the mine refuse disposal mound.





Location Map

Summary of Quantities

#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	33,272	C.Y.	Compaction in Accordance with 205
3	Seeding, Class 3A – So. Ill. Slope Mix	IDOT 250	5.8	Acre	
4	Nitrogen Fertilizer Nutrient	IDOT 250	1,392	Pound	240 lbs./Acre
5	Phosphorous Fertilizer Nutrient	IDOT 250	1,160	Pound	200 lbs./Acre
6	Potassium Fertilizer Nutrient	IDOT 250	2,900	Pound	500 lbs./Acre
7	Agricultural Ground Limestone	IDOT 250	58	Ton	10 Tons/Acre
8	Mulch, Method 2, Procedure 1	IDOT 251	5.8	Acre	2 Tons/Acre
9	Perimeter Erosion Barrier	280	1,017	Foot	
10	Special Excelsior Blanket	286	3,370	S.Y.	
11	Mobilization (Max. 6% of Bid)	671	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.

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.

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.

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.

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.

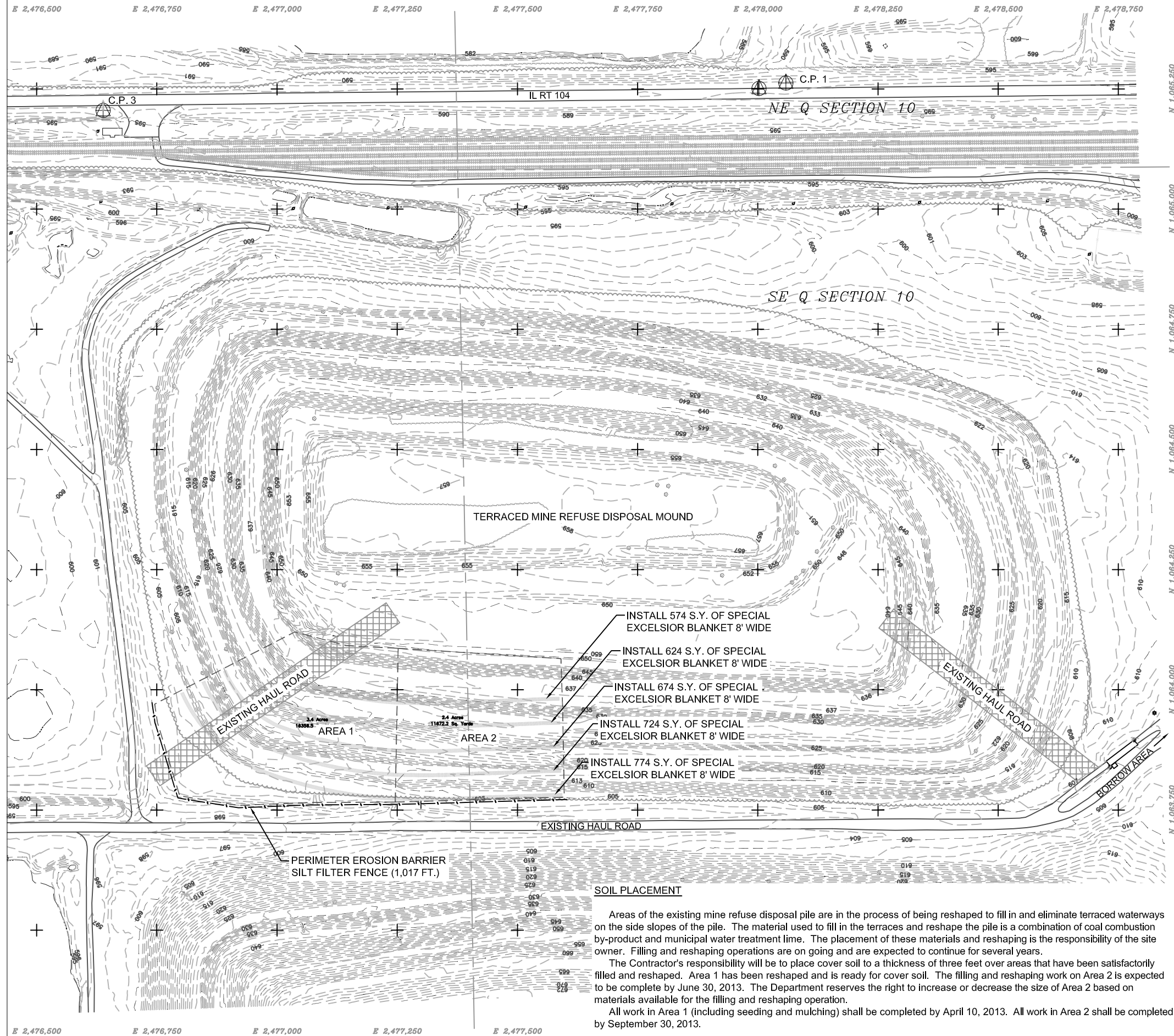
MULCHING–Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 1 of Article 251.03 of the Standard Specifications.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

ITEM (unit)	March 15, 2013 – April 10, 2013	August 15, 2013 – September 30, 2013	March 15, 2014 – April 10, 2014	TOTAL QUANTITY
SEEDING (acres)	3.4 Acres			3.4 Acres
AGRICULTURAL GROUND LIMESTONE (tons)	34 Tons (10 Tons/Acre)			34 Tons
NITROGEN FERTILIZER NUTRIENT (pounds)	408 Pounds (120 lbs./Acre)	408 Pounds (120 lbs./Acre)		816 Pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	340 Pounds (100 lbs./Acre)	340 Pounds (100 lbs./Acre)		680 Pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)	850 Pounds (250 lbs./Acre)	850 Pounds (250 lbs./Acre)		1,700 Pounds
MULCH, METHOD 2 PROCEDURE 1 (tons)	3.4 Acres			3.4 Acres

Schedule of Seeding, Fertilizer Nutrients and Mulching – Area 1

ITEM (unit)	March 15, 2013 – April 10, 2013	August 15, 2013 – September 30, 2013	March 15, 2014 – April 10, 2014	TOTAL QUANTITY
SEEDING (acres)		2.4 Acres		2.4 Acres
AGRICULTURAL GROUND LIMESTONE (tons)		24 Tons (10 Tons/Acre)		24 Tons
NITROGEN FERTILIZER NUTRIENT (pounds)		288 Pounds (120 lbs./Acre)	288 Pounds (120 lbs./Acre)	576 Pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)		240 Pounds (100 lbs./Acre)	240 Pounds (100 lbs./Acre)	480 Pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)		600 Pounds (250 lbs./Acre)	600 Pounds (250 lbs./Acre)	1,200 Pounds
MULCH, METHOD 2 PROCEDURE 1 (tons)		2.4 Acres		2.4 Acres



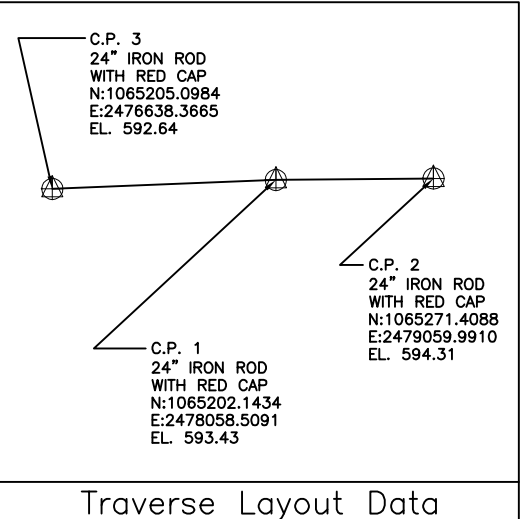
- INSTALL 574 S.Y. OF SPECIAL EXCELSIOR BLANKET 8' WIDE
- INSTALL 624 S.Y. OF SPECIAL EXCELSIOR BLANKET 8' WIDE
- INSTALL 674 S.Y. OF SPECIAL EXCELSIOR BLANKET 8' WIDE
- INSTALL 724 S.Y. OF SPECIAL EXCELSIOR BLANKET 8' WIDE
- INSTALL 774 S.Y. OF SPECIAL EXCELSIOR BLANKET 8' WIDE

SOIL PLACEMENT

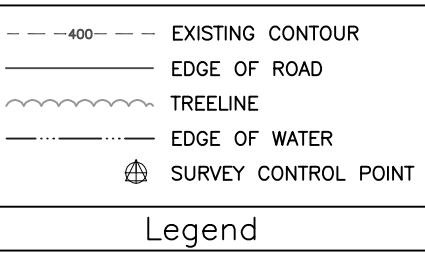
Areas of the existing mine refuse disposal pile are in the process of being reshaped to fill in and eliminate terraced waterways on the side slopes of the pile. The material used to fill in the terraces and reshape the pile is a combination of coal combustion by-product and municipal water treatment 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 been reshaped and is ready for cover soil. The filling and reshaping work on Area 2 is expected to be complete by June 30, 2013. The Department reserves the right to increase or decrease the size of Area 2 based on materials available for the filling and reshaping operation.

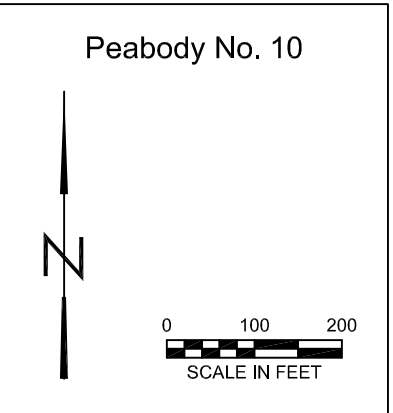
All work in Area 1 (including seeding and mulching) shall be completed by April 10, 2013. All work in Area 2 shall be completed by September 30, 2013.



Traverse Layout Data



Legend

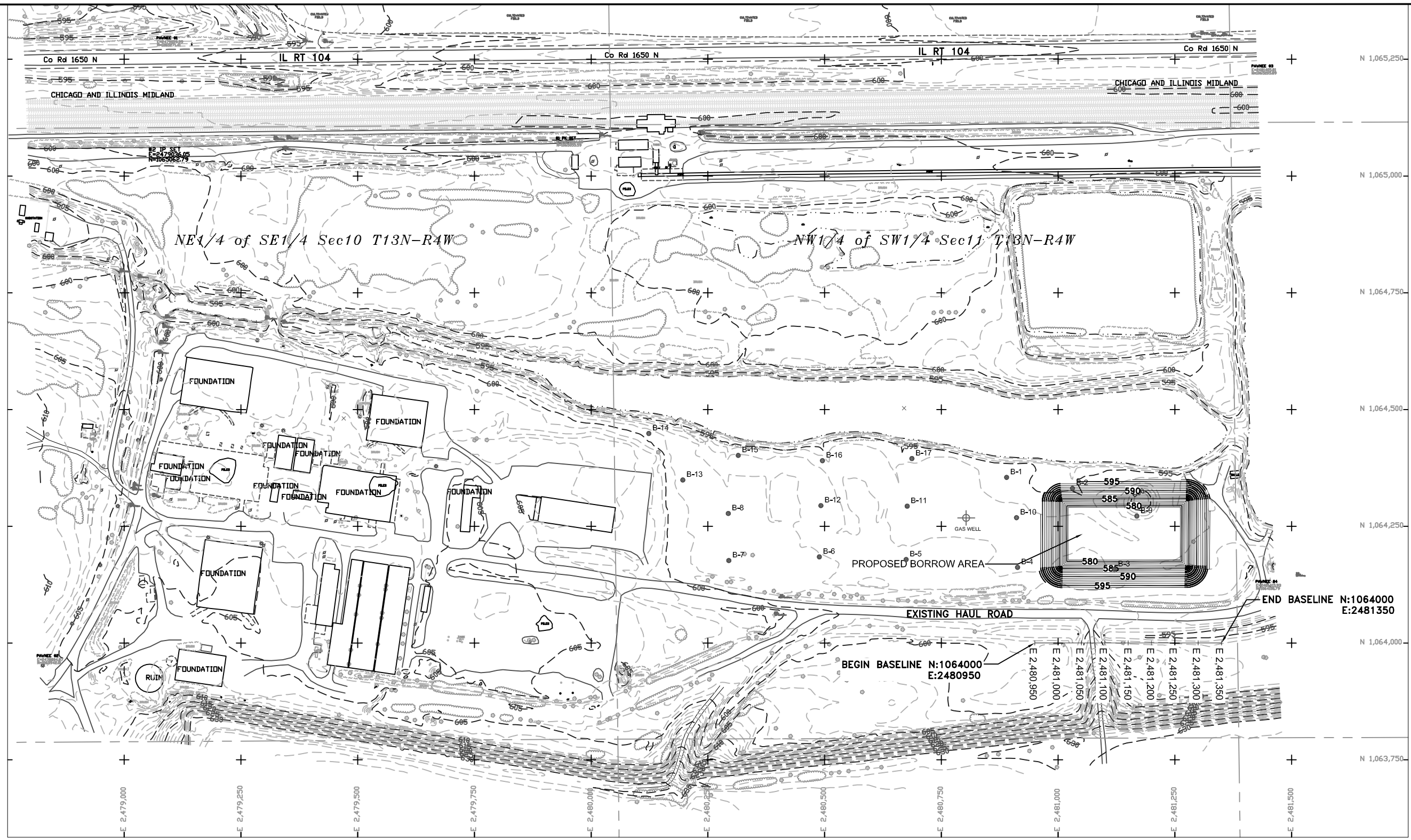


State of Illinois
Department of Natural Resources

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AML-GCtE-1210
Christian County

Drawn By: M-LF, T.M. Date: 12/2012
Checked By:

Existing & Proposed
Conditions
Sheet
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USE OF EXISTING HAUL ROADS:

The use of existing haul road shall be performed in a manner that will not negatively effect the continued use of the haul road 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 road.

REVEGETATION OF BORROW AREA:

Re-establishing vegetation around the proposed 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 pile where soil has been placed over the reshaped surface.

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	BORING

Peabody No. 10

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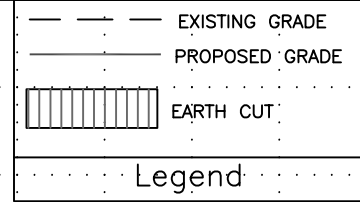
SCALE IN FEET

State of Illinois
Department of Natural Resources

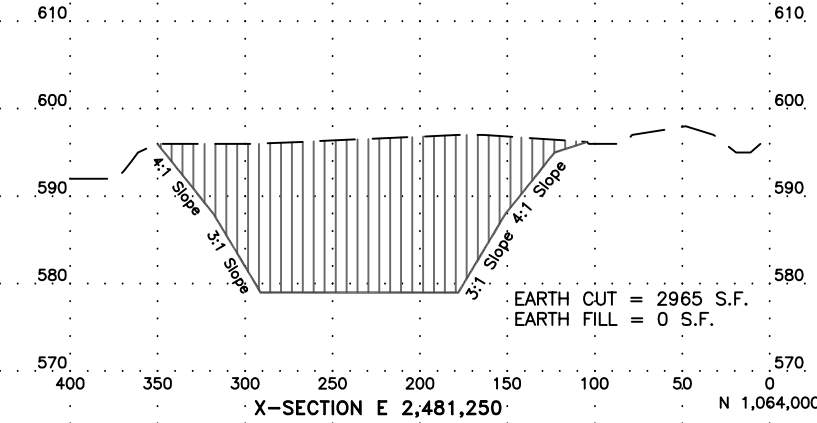
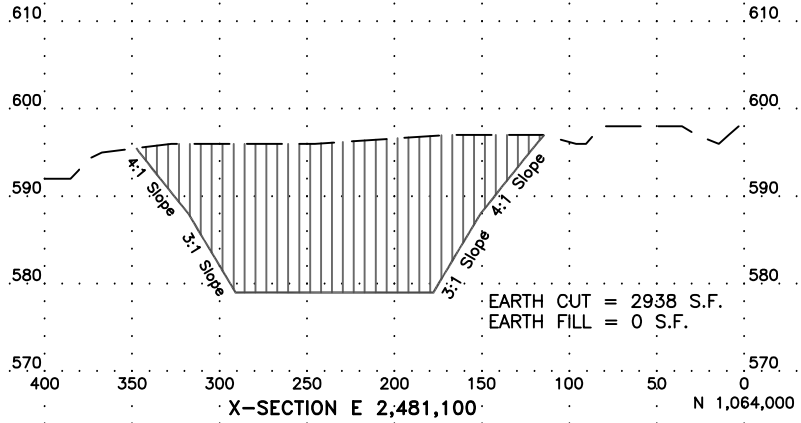
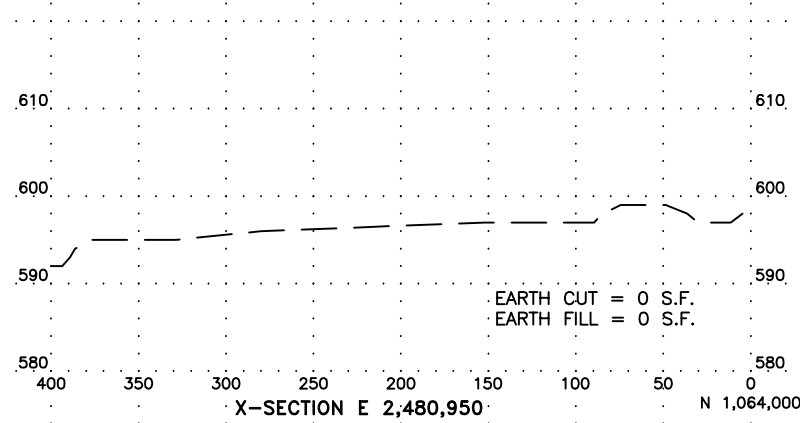
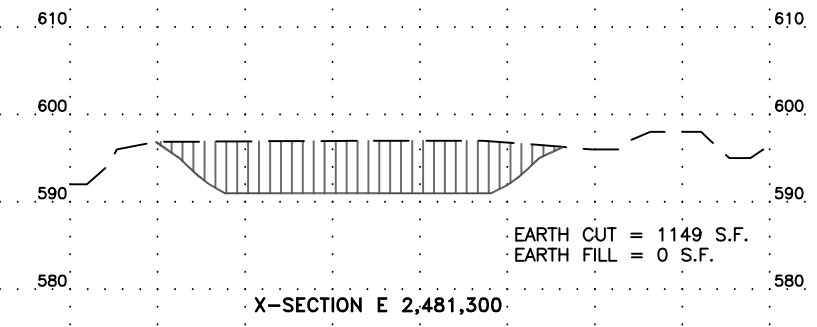
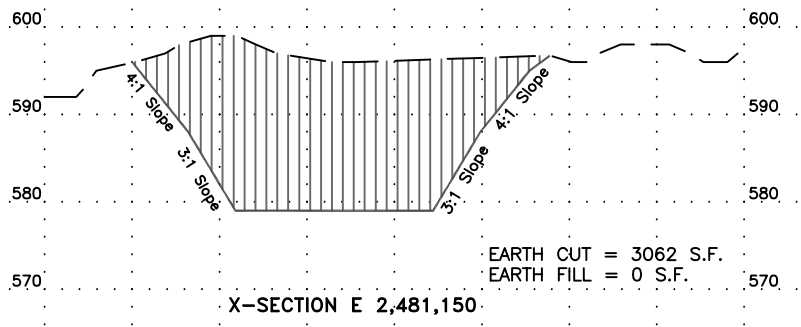
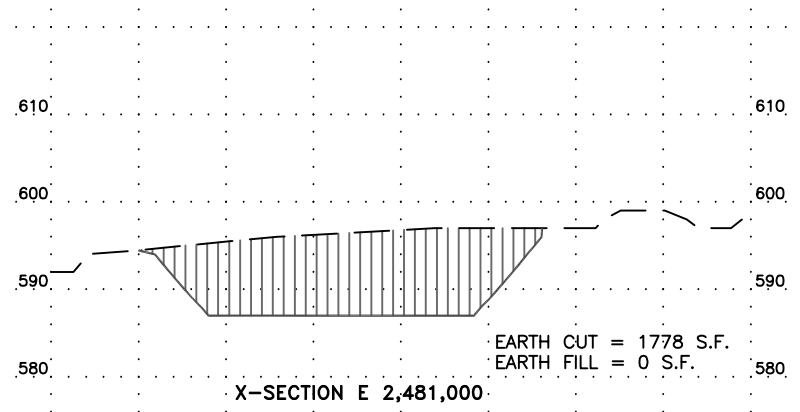
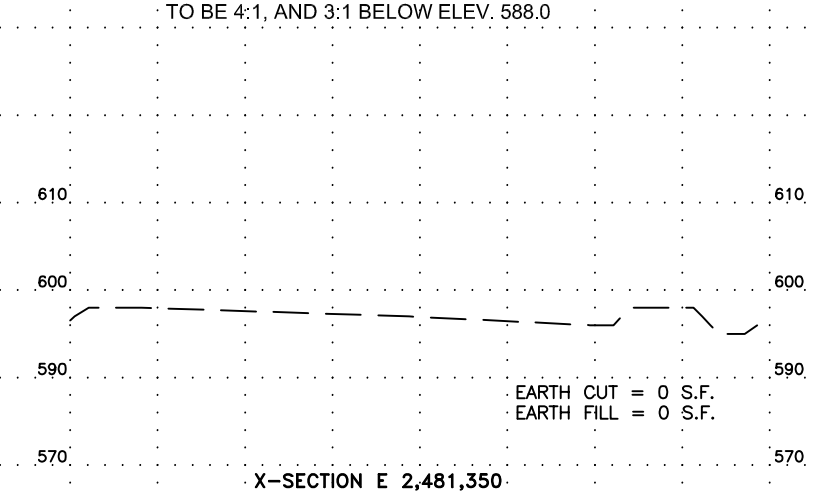
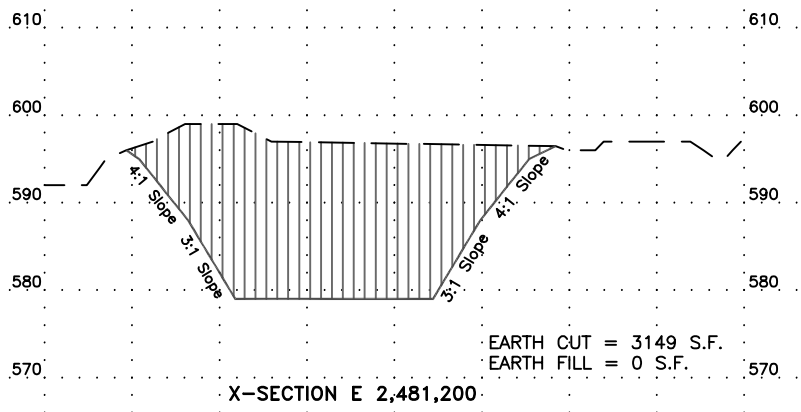
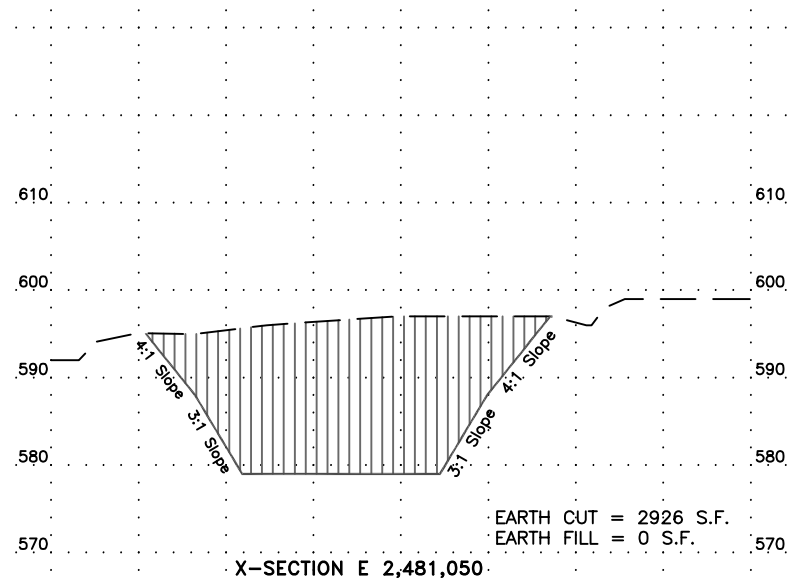
Peabody No. 10
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Drawn By: _____ Date: 12/2012
 Checked By: _____

Existing and Proposed
Conditions - Borrow Area
Sheet
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NOTE:
POND SLOPE DOWN TO ELEVATION 588.00.
TO BE 4:1, AND 3:1 BELOW ELEV. 588.0



Horizontal Scale 50
Vertical Scale 10