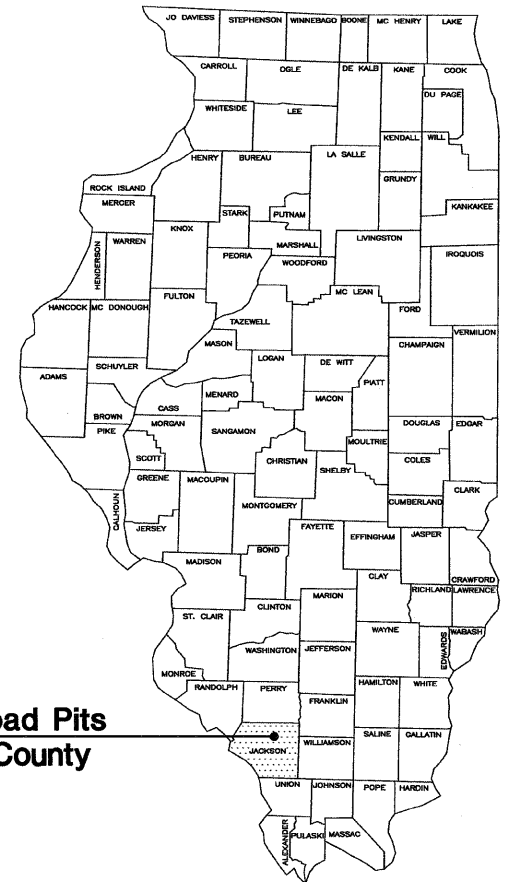


**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

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

**House Road Pits**  
**Reclamation Project**  
**AML-GJkE-0610**  
**Jackson County**  
**2LR**



**House Road Pits**  
**Jackson County**

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M. THURSDAY, APRIL 9<sup>TH</sup>, 2009. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE PROJECT SITE, AT THE INTERSECTION OF ELKVILLE RD. AND HOUSE RD., APPROXIMATELY  $\frac{3}{4}$  OF A MILE WEST OF ELKVILLE.

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Site Layout/Survey Control Point Data
- 4.-5. Existing Conditions
- 6.-7. Proposed Conditions
- 8.-12. Cross Sections
13. Details

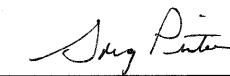
*I.D.O.T. Standard 280001-02 Rev. 207*  
*I.D.O.T. Standard 542301-02*  
*I.D.O.T. Standard 602401-02*  
*I.D.O.T. Standard 602601-02*  
*I.D.O.T. Standard 701336-05*  
*I.D.O.T. Standard B.L.R. 17-4*

Prepared By IDNR Staff

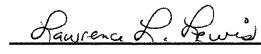
Approved for Bidding:

  
Joseph R. Angleton, Director  
Office of Mines and Minerals

Approved By:

  
J. 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
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	42,361	C.Y.	Compaction per Section 205
3	Scarifying Roadway	212	1	L.S.	
4	Seeding	250	9.0	Acre	
5	Agricultural Ground Limestone	250	180	Ton	20 Tons/Acre
6	Nitrogen Fertilizer Nutrient	250	1,800	Pound	See Schedule Below
7	Phosphorus Fertilizer Nutrient	250	900	Pound	
8	Potassium Fertilizer Nutrient	250	3,150	Pound	
9	Mulch Method 2, Procedure 1	IDOT 251	9.0	Acre	2 Tons/Acre
10	Mowing	258	9.0	Acre	
11	Temporary Ditch Checks	280	1	Each	Hay or Straw Bales IDOT Std. 280001-02, Rev. 207
12	Perimeter Erosion Barrier	280	200	Foot	Silt Fence Required IDOT Std. 280001-02, Rev. 207
13	Inlet and Pipe Protection	280	3	Each	Silt Fence Required. Inlet Filter IDOT Std. 280001-02, Rev. 207
14	Temporary Erosion Control, Seeding	280	900	Pound	100 Pounds/Acre
15	Stone Riprap, A-3	IDOT 281	28	Ton	
16	Special Excelsior Blanket	286	3,992	S.Y.	8 Feet Wide Strips
17	Aggregate Base Course, Type B, CA-6	IDOT 351	952	Ton	4" Lifts, 8" Total Thickness
18	Bituminous Materials (Prime Coat)	IDOT 403	1,222	Gallon	
19	Bituminous Materials (Cover & Seal Coats)	IDOT 403	2,444	Gallon	
20	Cover Coat Aggregate	IDOT 403	28	Ton	
21	Seal Coat Aggregate	IDOT 403	28	Ton	
22	Removal of Existing Structures	501	1	L.S.	
23	Pipe Culvert 24"Dia., R.C.C.P., Type 1	IDOT 542	176	Foot	
24	Precast Reinforced Concrete Flared End Sections, 24"Dia.	IDOT 542	5	Each	IDOT Standard 542301
25	Manhole	IDOT 602	1	Each	IDOT Std. 602401-02 IDOT Std. 602601-02
26	Frame and Grate	IDOT 604	1	Each	
27	Cleaning Existing Culverts	613	1	L.S.	
28	Dewatering Impoundments-Impoundment #1	614	1	L.S.	
29	Dewatering Impoundments-Impoundment #2	614	1	L.S.	
30	Guardrail Removal	IDOT 632	400	Foot	See Note #4 on Sheet #3
31	Mobilization (Max. of 6 % of Bid)	671	1	L.S.	
32	Work Zone Traffic	IDOT 701	1	L.S.	IDOT Std. 701336-05 Elkville Rd. IDOT Std. B.L.R. 17-4 House Rd.

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.

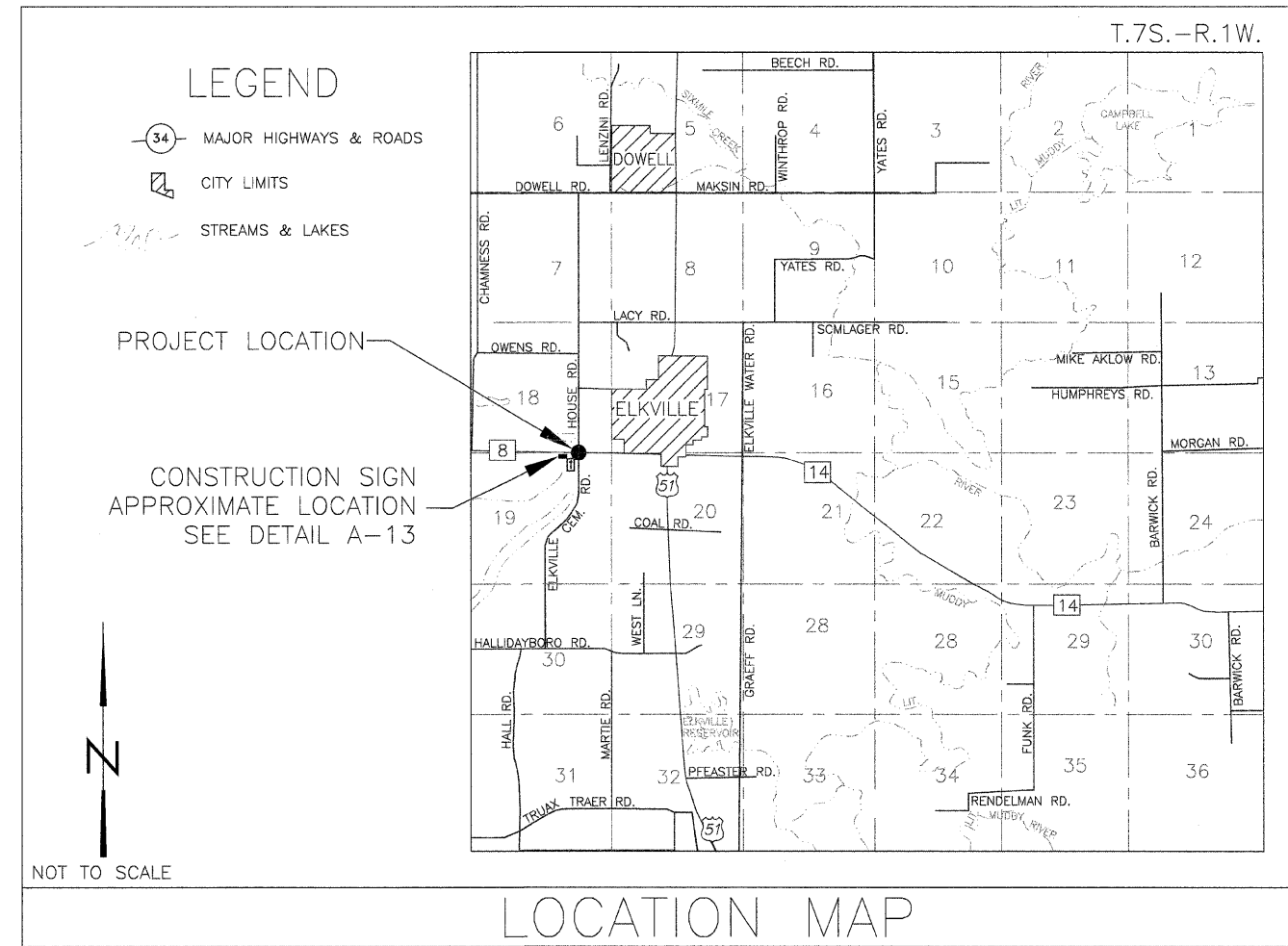
**TREE REMOVAL**-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions.

**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.



Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

ITEM (unit)	FALL 2009 AUG. 20 - SEPT. 30	SPRING 2010 APR. 20 - MAY 15	SPRING 2010 MAY 15 - JUN. 15	TOTAL QUANTITY
SEEDING (acres)	9.0			9.0
AGRICULTURAL GROUND LIMESTONE (tons)	180 20 T/A		Actual Date to be Approved by Engineer	180
NITROGEN FERTILIZER NUTRIENT (pounds)	900 100 Lb./A	900 100 Lb./A		1,800
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	900 100 Lb./A			900
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,150 350 Lb./A			3,150
MULCH, METHOD 2 PROCEDURE 1 (acre)	9.0 2 T/A			9.0
MOWING (acres)			9.0	9.0

State of Illinois  
Department of Natural Resources

House Road Pits  
Reclamation Project  
AML-GJKE-0610  
Jackson County

Date : 02-26-09  
Drawn By : OMA  
Checked By :

Summary of Quantities/  
General Notes/Location Map  
Sheet 2 of 13

CP#	ELEV.	NORTHING	EASTING	DESCRIPTION
1	412.83	452,681.94	2,561,467.87	3" IRON PIN W/YELLOW CAP
2	414.20	452,514.96	2,561,479.46	3" IRON PIN W/YELLOW CAP
3	417.05	452,175.51	2,561,480.94	3" IRON PIN W/YELLOW CAP

TRAVERSE LAYOUT DATA		
BASELINE NAME	EARTH CUT (C.Y.)	COMMENTS
BASELINE A	330	COMPACTION ACCORDING WITH SECTION 205. SEE NOTE #5
BASELINE B	42.03	COMPACTION ACCORDING WITH SECTION 205. SEE NOTE #5
PROJECT TOTAL	42.361	COMPACTION ACCORDING WITH SECTION 205. SEE NOTE #5

EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 402.1  
D.S.F.L. ELEVATION: 402.0

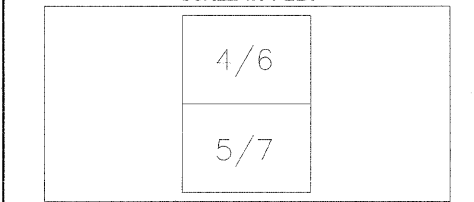
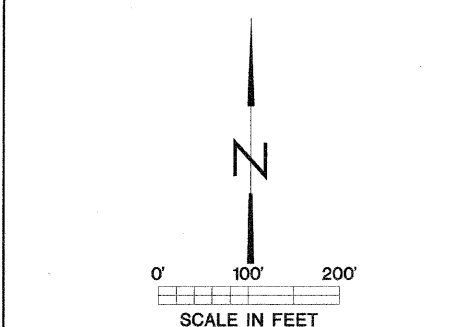
EXISTING IMPOUNDMENT #2  
TO BE DEWATERED.  
SURFACE WATER ELEVATION: 402.3  
ESTIMATED VOLUME: 16.1 MILLION GALLONS  
pH: 7.45. (C4-16-08)

EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 409.5  
D.S.F.L. ELEVATION: 405.9

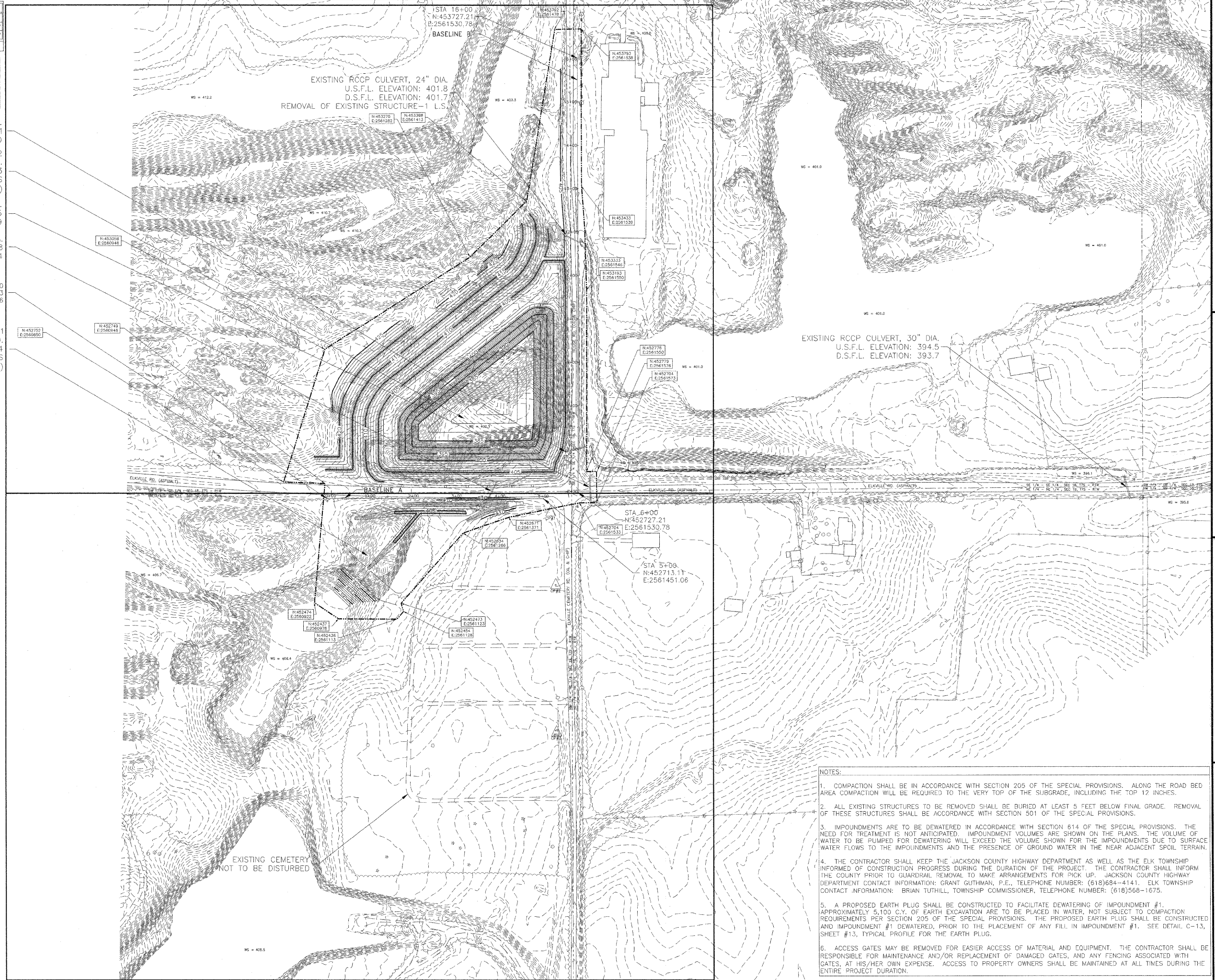
EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 404.8  
D.S.F.L. ELEVATION: 404.4

STA 0+00  
N:452714.03  
E:2560951.06

EXISTING IMPOUNDMENT #1  
TO BE DEWATERED.  
SURFACE WATER ELEVATION: 406.4  
ESTIMATED VOLUME: 1.2 MILLION GALLONS  
pH: 7.24 (04-16-08)



LEGEND	
---	EXISTING CONTOUR
—	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
~~~~~	TREELINE
— —	EXISTING GUARDRAIL
—+—	EXISTING FENCE LINE
---	SECTION LINE
⊙	ELECTRIC POWER POLE
△	CONTROL POINT



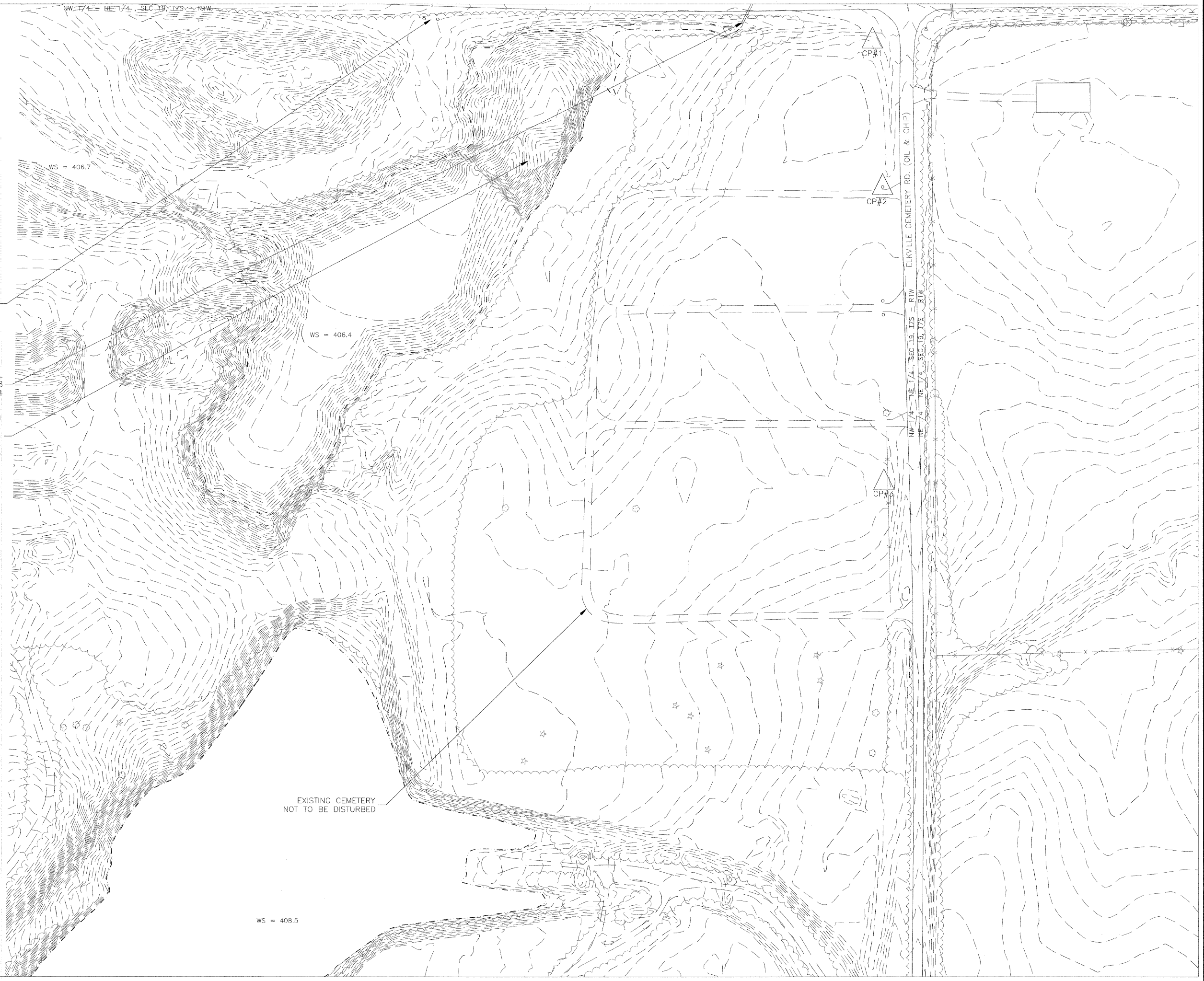
- NOTES:
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS. ALONG THE ROAD BED AREA COMPACTION WILL BE REQUIRED TO THE VERY TOP OF THE SUBGRADE, INCLUDING THE TOP 12 INCHES.
  2. ALL EXISTING STRUCTURES TO BE REMOVED SHALL BE BURIED AT LEAST 5 FEET BELOW FINAL GRADE. REMOVAL OF THESE STRUCTURES SHALL BE ACCORDANCE WITH SECTION 501 OF THE SPECIAL PROVISIONS.
  3. IMPOUNDMENTS ARE TO BE DEWATERED IN ACCORDANCE WITH SECTION 614 OF THE SPECIAL PROVISIONS. THE NEED FOR TREATMENT IS NOT ANTICIPATED. IMPOUNDMENT VOLUMES ARE SHOWN ON THE PLANS. THE VOLUME OF WATER TO BE PUMPED FOR DEWATERING WILL EXCEED THE VOLUME SHOWN FOR THE IMPOUNDMENTS DUE TO SURFACE WATER FLOWS TO THE IMPOUNDMENTS AND THE PRESENCE OF GROUND WATER IN THE NEAR ADJACENT SPOIL TERRAIN.
  4. THE CONTRACTOR SHALL KEEP THE JACKSON COUNTY HIGHWAY DEPARTMENT AS WELL AS THE ELK TOWNSHIP INFORMED OF CONSTRUCTION PROGRESS DURING THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL INFORM THE COUNTY PRIOR TO GUARDRAIL REMOVAL TO MAKE ARRANGEMENTS FOR PICK UP. JACKSON COUNTY HIGHWAY DEPARTMENT CONTACT INFORMATION: GRANT GUTHMAN, P.E., TELEPHONE NUMBER: (618)684-4141. ELK TOWNSHIP CONTACT INFORMATION: BRIAN TUTTILL, TOWNSHIP COMMISSIONER, TELEPHONE NUMBER: (618)568-1675.
  5. A PROPOSED EARTH PLUG SHALL BE CONSTRUCTED TO FACILITATE DEWATERING OF IMPOUNDMENT #1. APPROXIMATELY 5,100 C.Y. OF EARTH EXCAVATION ARE TO BE PLACED IN WATER, NOT SUBJECT TO COMPACTION REQUIREMENTS PER SECTION 205 OF THE SPECIAL PROVISIONS. THE PROPOSED EARTH PLUG SHALL BE CONSTRUCTED AND IMPOUNDMENT #1 DEWATERED, PRIOR TO THE PLACEMENT OF ANY FILL IN IMPOUNDMENT #1. SEE DETAIL C-13, SHEET #13, TYPICAL PROFILE FOR THE EARTH PLUG.
  6. ACCESS GATES MAY BE REMOVED FOR EASIER ACCESS OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND/OR REPLACEMENT OF DAMAGED GATES, AND ANY FENCING ASSOCIATED WITH GATES, AT HIS/HER OWN EXPENSE. ACCESS TO PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES DURING THE ENTIRE PROJECT DURATION.

State of Illinois  
Department of Natural Resources

House Road Pits  
Reclamation Project  
AML-GjKE-0610  
Jackson County

Drawn By: OMA Date: 2-26-09  
Checked By:

Site Layout  
Survey Control Point Data  
Sheet 3 of 13



EXISTING GATE

EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 404.8  
D.S.F.L. ELEVATION: 404.4

EXISTING MPOUNDMENT #1  
TO BE DEWATERED.  
SURFACE WATER ELEVATION: 406.4  
ESTIMATED VOLUME: 1.2 MILLION GALLONS  
pH: 7.24 (04-16-08)

WS = 406.7

WS = 406.4

CP#1

CP#2

CP#3

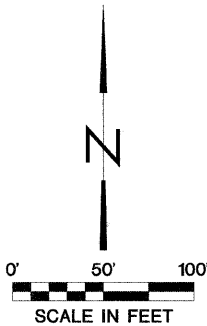
ELKVILLE CEMETERY RD. (OIL & CHIP)

NW 1/4 - NE 1/4 - SEC 19, T15S, R14W

NE 1/4 - SEC 19, T15S, R14W

EXISTING CEMETERY  
NOT TO BE DISTURBED

WS = 408.5



SCALE IN FEET

4/6

5/7

SHEET LAYOUT

- EXISTING CONTOUR
- ~ TREELINE
- - - EXISTING FENCE LINE
- - - SECTION LINE
- ⊙ ELECTRIC POWER POLE
- △ CONTROL POINT

LEGEND



EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 401.8  
D.S.F.L. ELEVATION: 401.7

EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 402.1  
D.S.F.L. ELEVATION: 402.0

EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 409.5  
D.S.F.L. ELEVATION: 405.9

EXISTING IMPOUNDMENT #2  
SURFACE WATER ELEVATION: 402.3  
ESTIMATED VOLUME: 12.5 MILLION GALLONS  
pH: 7.45 (04-16-08)

EXISTING RCCP CULVERT, 24" DIA.  
U.S.F.L. ELEVATION: 404.8  
D.S.F.L. ELEVATION: 404.4

EXISTING GUARDRAIL

WS = 412.2

WS = 403.3

WS = 408.0

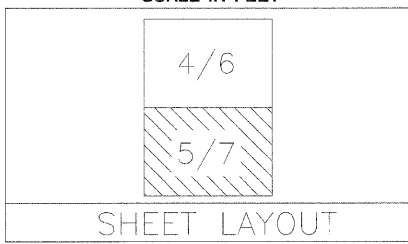
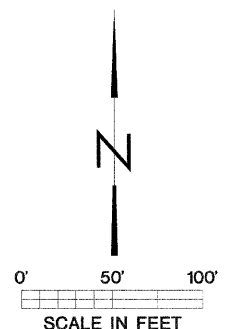
WS = 410.7

WS = 410.3

WS = 401.0

WS = 402.3

WS = 403.1



	EXISTING CONTOUR
	TREELINE
	EXISTING FENCE LINE
	SECTION LINE
	ELECTRIC POWER POLE
	CONTROL POINT
LEGEND	

SW 1/4 - SE 1/4 - SEC 18, T7S - R1W

ELKVILLE RD. (ASPHALT)

HOUSE RD. (OIL & CHIP)

ELKVILLE RD. (ASPHALT)

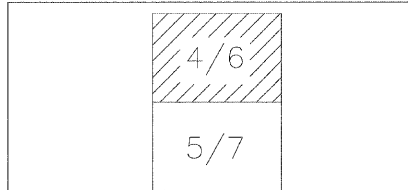
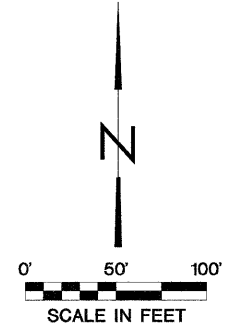


- BESELINE A
- EXISTING GATE TO BE MAINTAINED  
SEE NOTE #6, SHEET #3
- SPECIAL EXCELSIOR BLANKET  
258'L X 8'W (229 S.Y.)
- PROPOSED 5:1 SLOPE
- PROPOSED MANHOLE  
48" DIAMETER  
U.S.F.L. ELEVATION: 404.8  
SEE DETAIL D-13, SHEET #13
- PROPOSED PIPE CULVERT  
24" RCCP EXTENSION (48.0 FT.)  
U.S.F.L. ELEVATION: 405.0  
SEE DETAIL D-13, SHEET #13  
WITH 24" DIA. PRECAST REINFORCED CONCRETE FLARED END SECTION
- PERIMETER EROSION BARRIER  
SILT FENCE (200 FT.)
- INLET AND PIPE PROTECTION  
SILT FENCE (18 FT.)
- DEWATERING IMPOUNDMENT #1  
SURFACE WATER ELEVATION: 406.4  
ESTIMATED VOLUME: 1.2 MILLION GALLONS  
pH: 7.24 (04-16-08)
- PROPOSED EARTH PLUG  
APPROXIMATELY 5,100 C.Y.  
SEE NOTE #5, SHEET #3

- CLEANING EXISTING CULVERTS
- INLET AND PIPE PROTECTION  
INLET FILTER
- TEMPORARY DITCH CHECK  
STRAW BALES (1 EACH)
- SPECIAL EXCELSIOR BLANKET  
350'L X 8'W (311 S.Y.)

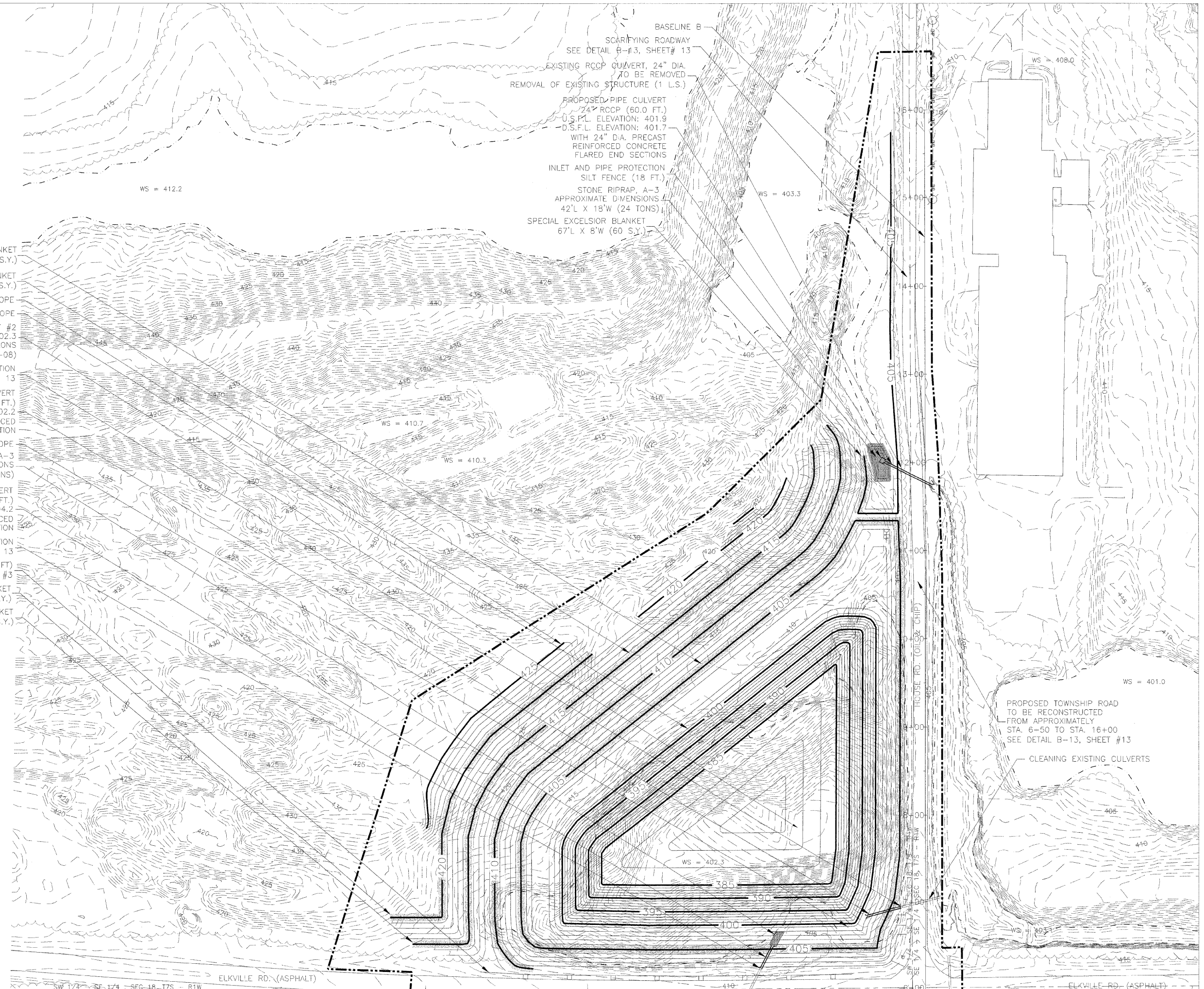
SPECIAL EXCELSIOR BLANKET  
175'L X 8'W (156 S.Y.)

EXISTING CEMETERY  
NOT TO BE DISTURBED

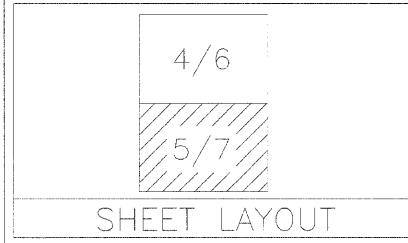
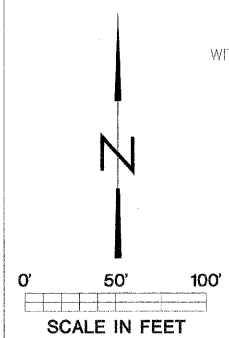


SHEET LAYOUT

- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - - - CONSTRUCTION LIMITS
  - ~~~~ TREELINE
  - PERIMETER EROSION BARRIER
  - EXISTING FENCE LINE
  - SECTION LINE
  - ⊙ ELECTRIC POWER POLE
  - △ CONTROL POINT
- LEGEND



- SPECIAL EXCELSIOR BLANKET  
1,590'L X 8'W (1,413 S.Y.)
- SPECIAL EXCELSIOR BLANKET  
819'L X 8'W (728 S.Y.)
- PROPOSED 6:1 SLOPE
- PROPOSED 3:1 SLOPE
- DEWATERING IMPOUNDMENT #2  
SURFACE WATER ELEVATION: 402.3  
ESTIMATED VOLUME: 16.1 MILLION GALLONS  
pH: 7.45 (04-16-08)
- PROPOSED PIPE CONNECTION  
SEE DETAIL E-13, SHEET# 13
- PROPOSED PIPE CULVERT  
24" RCCP EXTENSION (40.0 FT.)  
U.S.F.L. ELEVATION: 402.2  
WITH 24" DIA. PRECAST REINFORCED  
CONCRETE FLARED END SECTION
- PROPOSED 5:1 SLOPE
- STONE RIPRAP, A-3  
APPROXIMATE DIMENSIONS  
16'L X 8'W (4 TONS)
- PROPOSED PIPE CULVERT  
24" RCCP EXTENSION (28.0 FT.)  
D.S.F.L. ELEVATION: 404.2  
WITH 24" DIA. PRECAST REINFORCED  
CONCRETE FLARED END SECTION
- PROPOSED PIPE CONNECTION  
SEE DETAIL E-13, SHEET# 13
- GUARDRAIL REMOVAL (400 FT)  
SEE NOTE #4, SHEET #3
- SPECIAL EXCELSIOR BLANKET  
429'L X 8'W (381 S.Y.)
- SPECIAL EXCELSIOR BLANKET  
803'L X 8'W (714 S.Y.)



SHEET LAYOUT

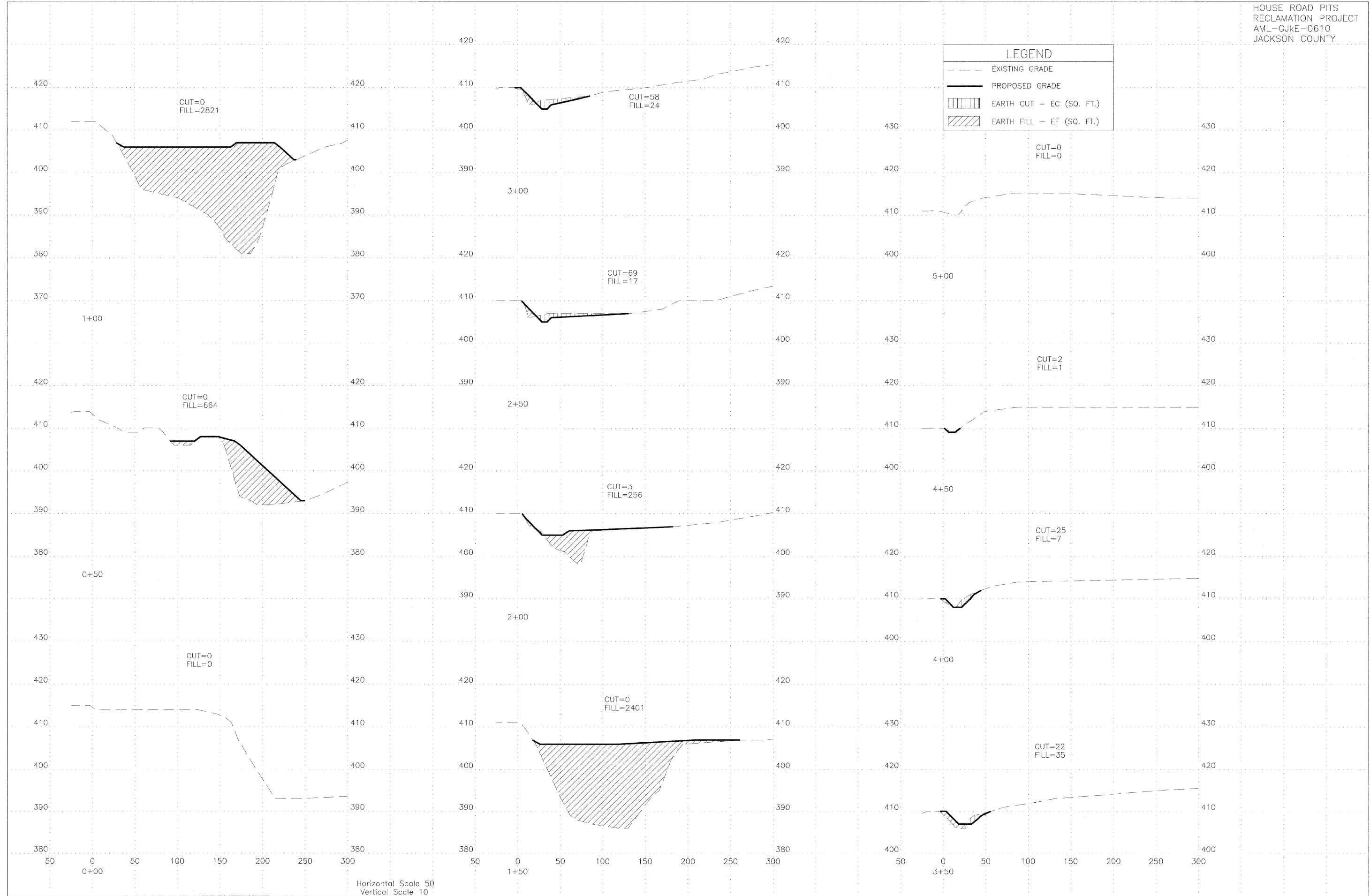
---	EXISTING CONTOUR
—	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
~~~~~	TREELINE
—○—	PERIMETER EROSION BARRIER
—▲—	EXISTING FENCE LINE
---	SECTION LINE
⊙	ELECTRIC POWER POLE
△	CONTROL POINT

LEGEND

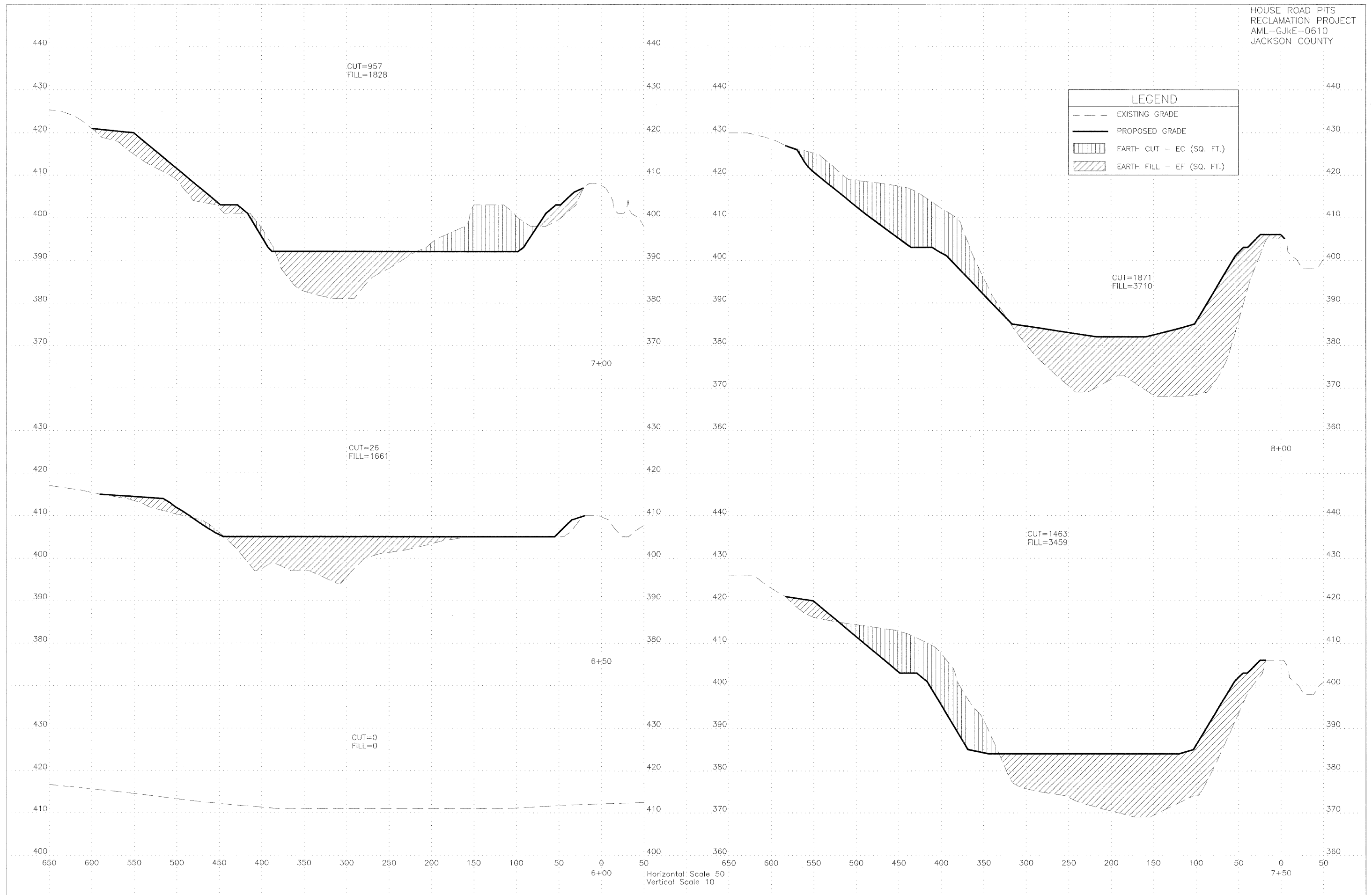
SW 1/4, SE 1/4, SEC. 18, T7S, R1W ELKVILLE RD. (ASPHALT)

**LEGEND**

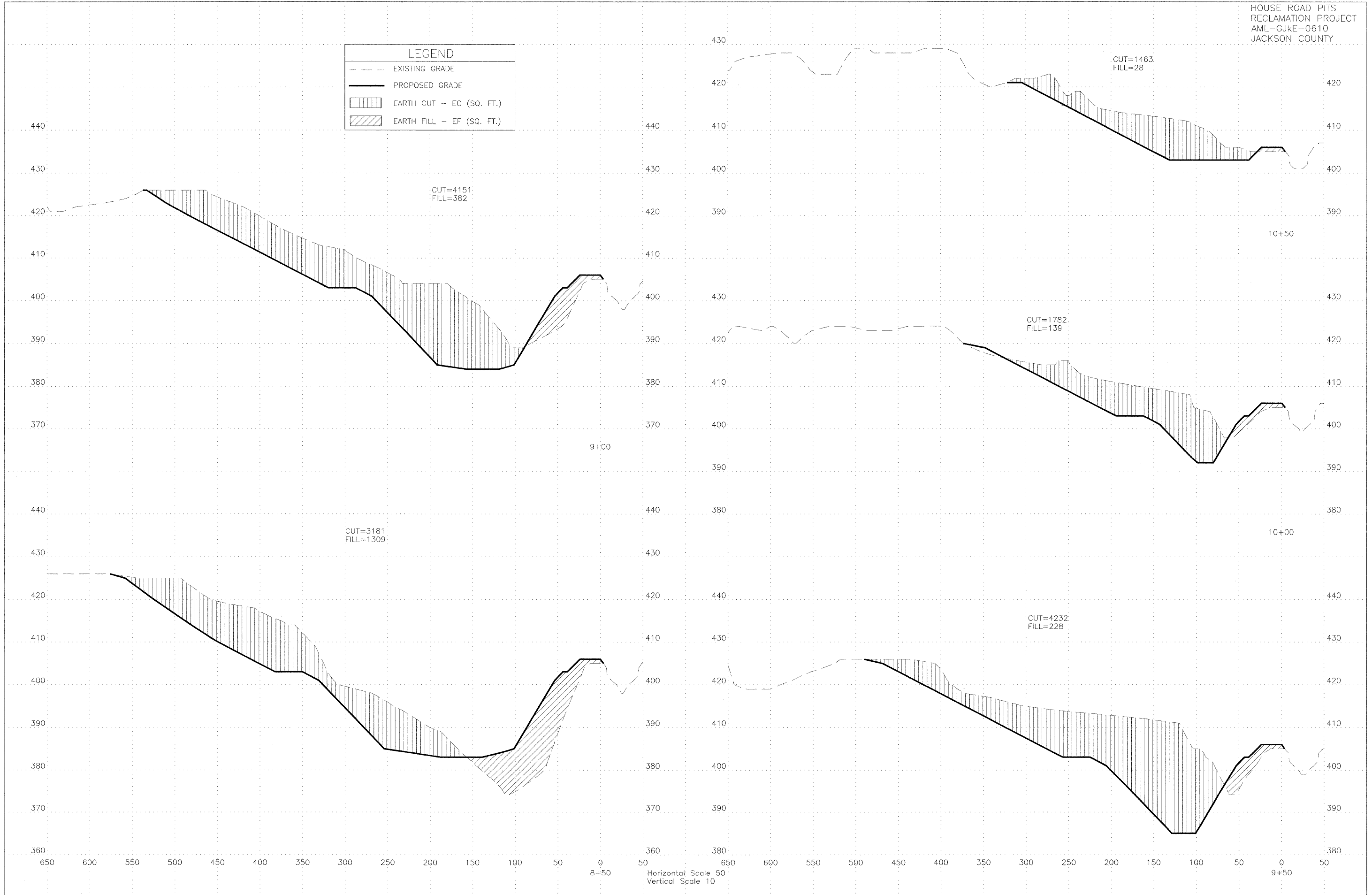
- EXISTING GRADE
- PROPOSED GRADE
- ▨ EARTH CUT - EC (SQ. FT.)
- ▩ EARTH FILL - EF (SQ. FT.)



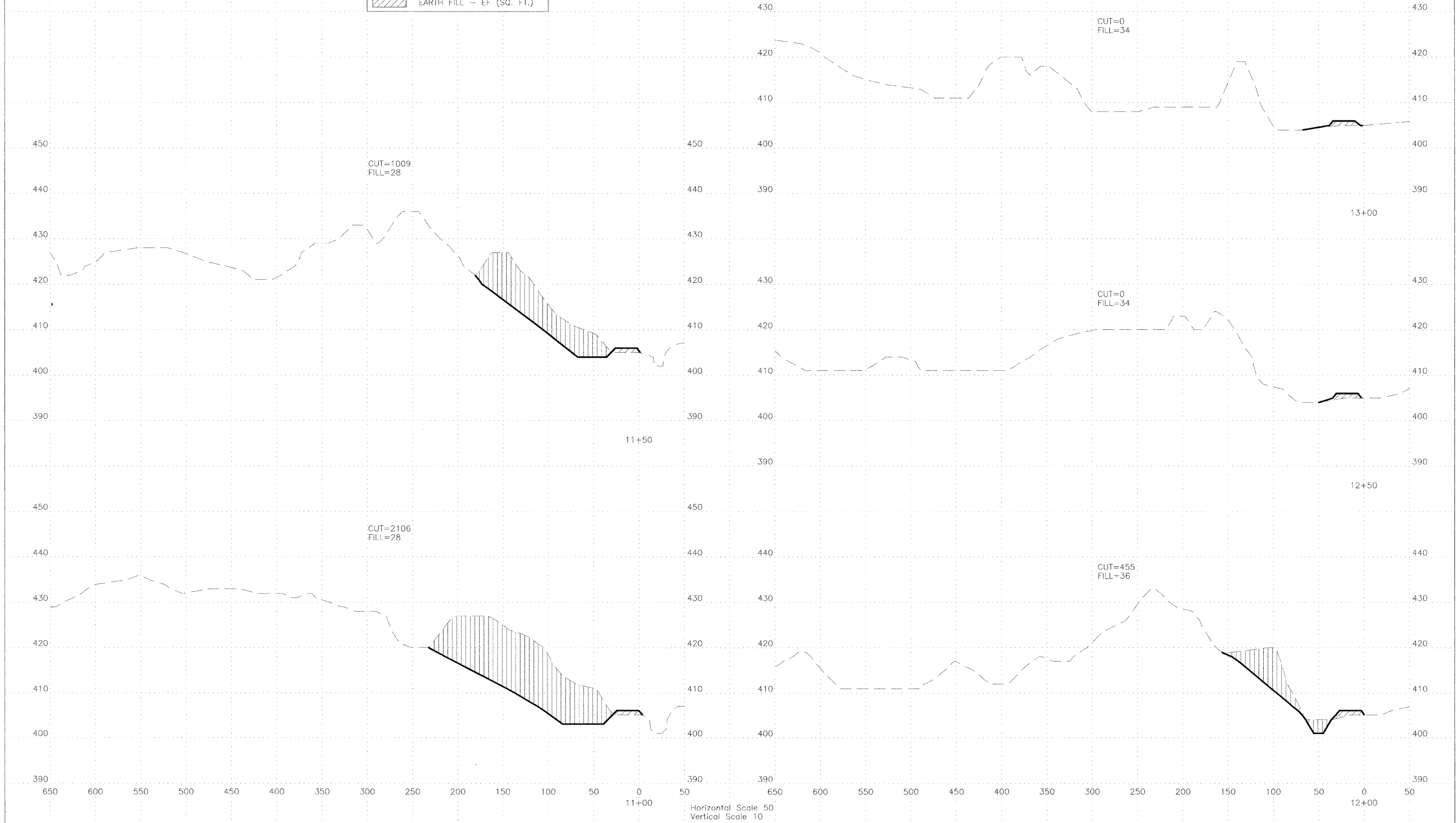


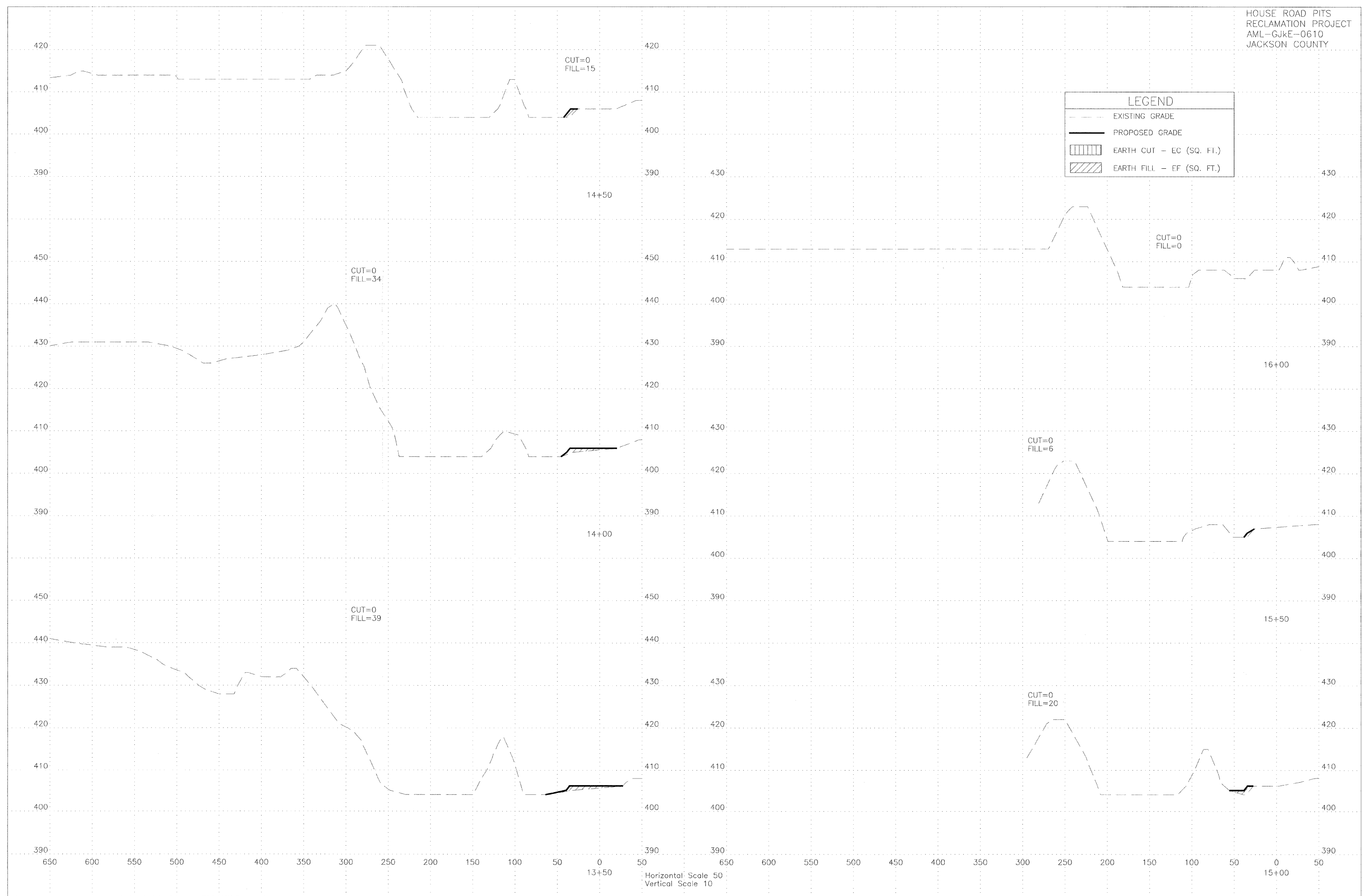


LEGEND	
- - -	EXISTING GRADE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)



LEGEND	
- - -	EXISTING GRADE
—	PROPOSED GRADE
▨	EARTH CUT - EC (SQ. FT.)
▩	EARTH FILL - EF (SQ. FT.)





SPACING LETTERS

2.0"	
1.5"	3.5"
1.5"	3.5"
1.5"	3.5"
1.5"	3.5"
3.5"	3.0"
3.5"	
1.5"	2.5"
1.5"	2.5"
3.5"	
1.5"	2.0"
1.5"	2.0"
2.0"	

RECLAMATION PROJECT  
of the  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF ILLINOIS

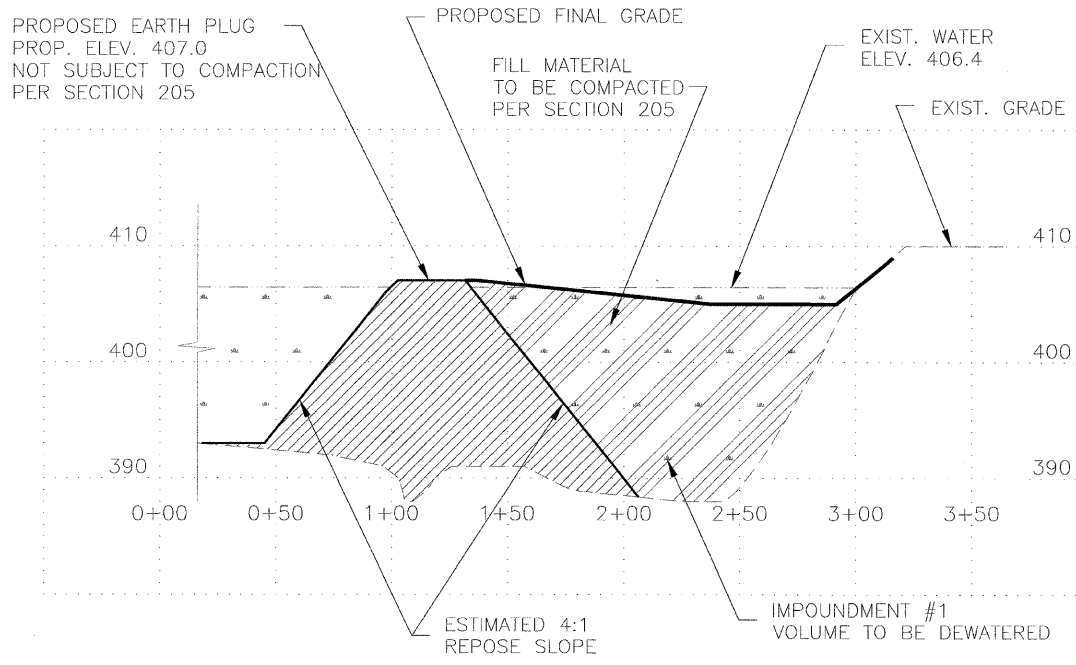
PAT QUINN, GOVERNOR

10" dia. Marc Miller, Director  
Department of Natural Resources

In cooperation with the Office of Surface Mining  
United States Department of the Interior

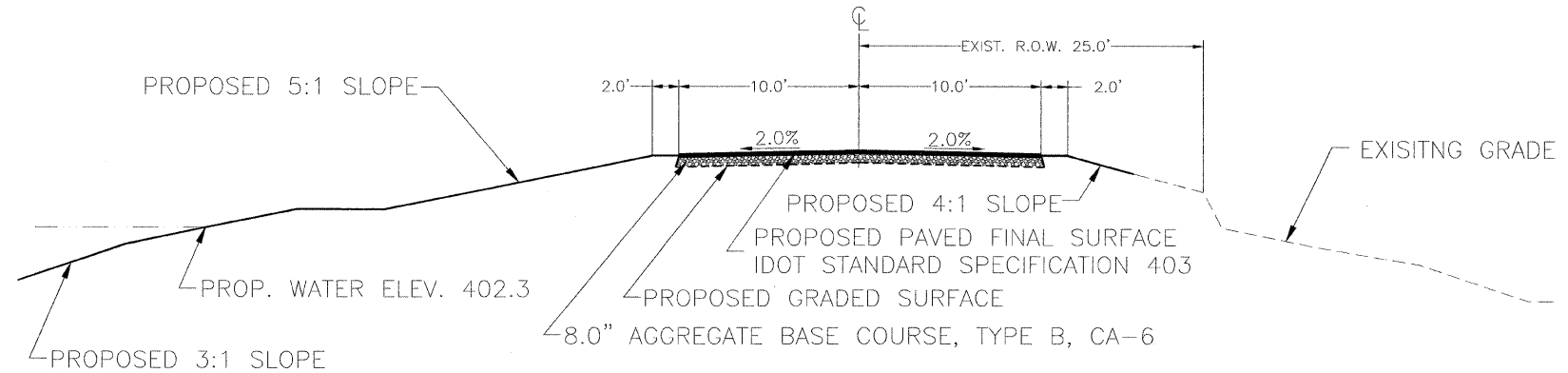
1. Furnishing, erecting and removing the sign shall be incidental to the contract.
2. The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
3. The posts shall be made of 4" x 4" wood or 2.5" metal pipe, and shall be 10' long. The sign shall be securely fastened to the posts with six 2.5" long, round head wood screws (for wood posts) or four 5" long, 3/8" diameter carriage bolts (for wood or metal posts).
4. The top of the sign shall be level with the top of the posts, and the posts shall be 1' from the edges of the sign. The posts shall be set in the ground 3', so that the bottom of the sign is 3' from the ground.

**CONSTRUCTION SIGN DETAIL**  
DETAIL A-13, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



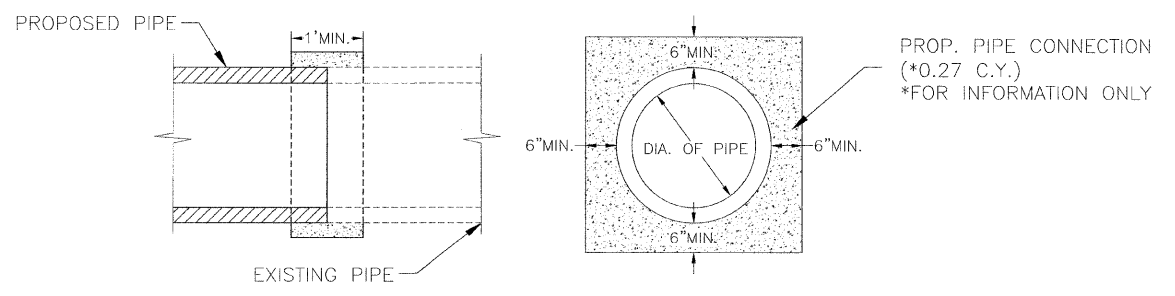
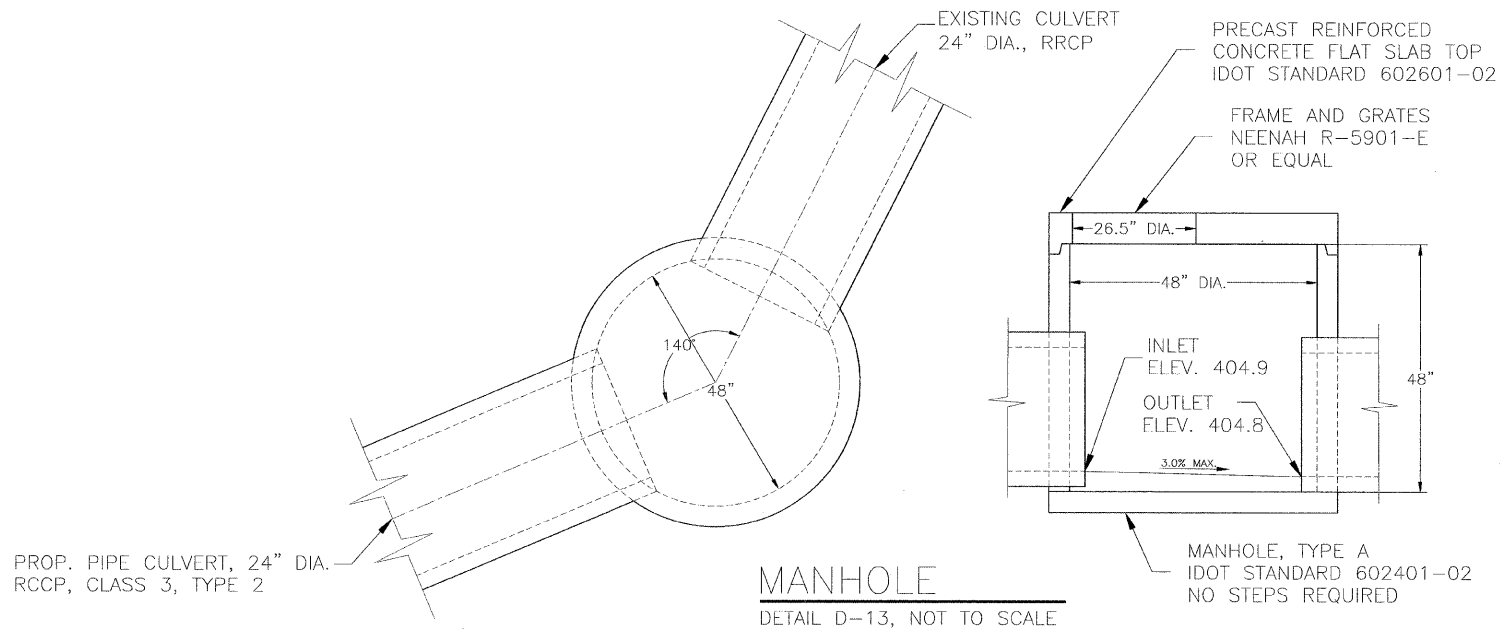
- NOTES:
1. PROPOSED EARTH PLUG TO BE CONSTRUCTED TO FACILITATE DEWATERING OF IMPOUNDMENT #1.
  2. APPROXIMATELY 5,100 C.Y. OF EARTH EXCAVATION ARE TO BE PLACED IN WATER, NOT SUBJECT TO COMPACTION REQUIREMENTS PER SECTION 205 OF THE SPECIAL PROVISIONS.
  3. THE PROPOSED EARTH PLUG SHALL BE CONSTRUCTED AND IMPOUNDMENT #1 DEWATERED, AS SHOWN, PRIOR TO ANY GRADING IN IMPOUNDMENT #1.

**TYPICAL PROFILE - EARTH PLUG**  
DETAIL C-13, NOT TO SCALE



- NOTES:
1. THE CONTRACTOR SHALL STAKE OUT CONSTRUCTION LIMITS ON THE EAST SIDE OF HOUSE ROAD. THE CONTRACTOR SHALL REMAIN AT ALL TIMES DURING THE PROJECT CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS, WHICH CORRESPOND WITH THE RIGHT OF WAY LIMITS.
  2. AROUND THE AREA OF THE EXISTING BUILDING PARKING LOT, EAST SIDE ON HOUSE ROAD, APPROXIMATELY FROM STATION 12+00 TO STATION 16+00, THE CONTRACTOR SHALL TIE IN TO EXISTING CONDITIONS ALLOWING AREA TO DRAIN WHILE REMAINING WITHIN THE RIGHT OF WAY LIMITS.
  3. THE CONTRACTOR SHALL MAKE A SMOOTH TRANSITION, FEATHER JOINT, TO EXISTING PAVEMENT.

**TYPICAL HOUSE ROAD SECTION DETAIL**  
DETAIL B-13 - NOT TO SCALE



- NOTES:
1. PIPE CONNECTIONS ARE TO BE INCLUDED IN THE UNIT PRICE OF R.C.C.P. PIPE CULVERT. FORMING WILL NOT BE REQUIRED IF MINIMUM DIMENSIONS ARE OBTAINED.
  2. CONCRETE FOR CONSTRUCTING THE PIPE CONNECTION SHALL BE IN ACCORDANCE WITH SECTION 1020 OF THE IDOT STANDARD SPECIFICATION.

**PIPE CONNECTION**  
DETAIL E-13, NOT TO SCALE

State of Illinois  
Department of Natural Resources

House Road Pits  
Reclamation Project  
AML-GjkE-0610  
Jackson County

Drawn By: OMA Date: 05-24-09  
Checked By:

Details Sheet

Sheet 13 of 13