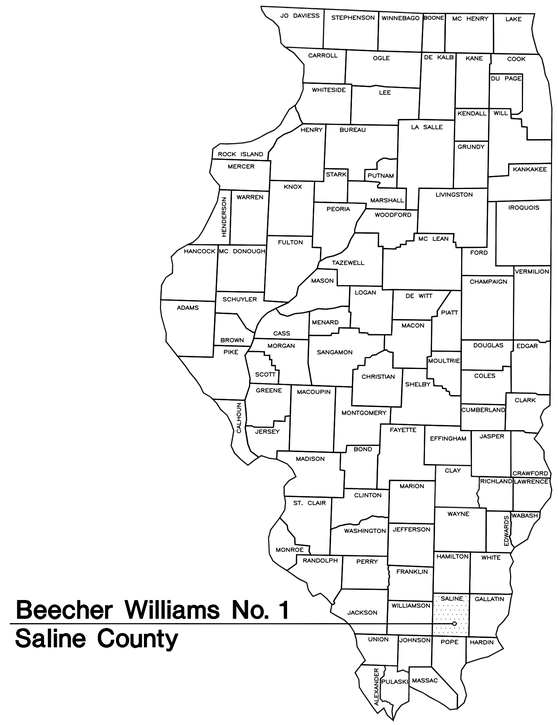
State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands Reclamation



Beecher Williams No. 1
Saline County

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

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County
1LR

PRE–BID MEETING
A PRE–BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M., WEDNESDAY, OCTOBER 13th, 2021. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE ENTRANCE OF THE PROJECT SITE, ALONG WHITESVILLE RD., APPROXIMATELY 5 MILES SOUTHEAST OF ILLINOIS ROUTE 145.

SCHEDULE OF DRAWINGS:

I.D.O.T. Standard 280001-07

CONTRACT NO. M2007

Certified Copy

Prepared By IDNR Staff

Approved for Bidding:

Ronnie Huff, Director
Office of Mines and Minerals

Approved By:

Rita M. Lee, Manager
AMLR Division

Approved By:

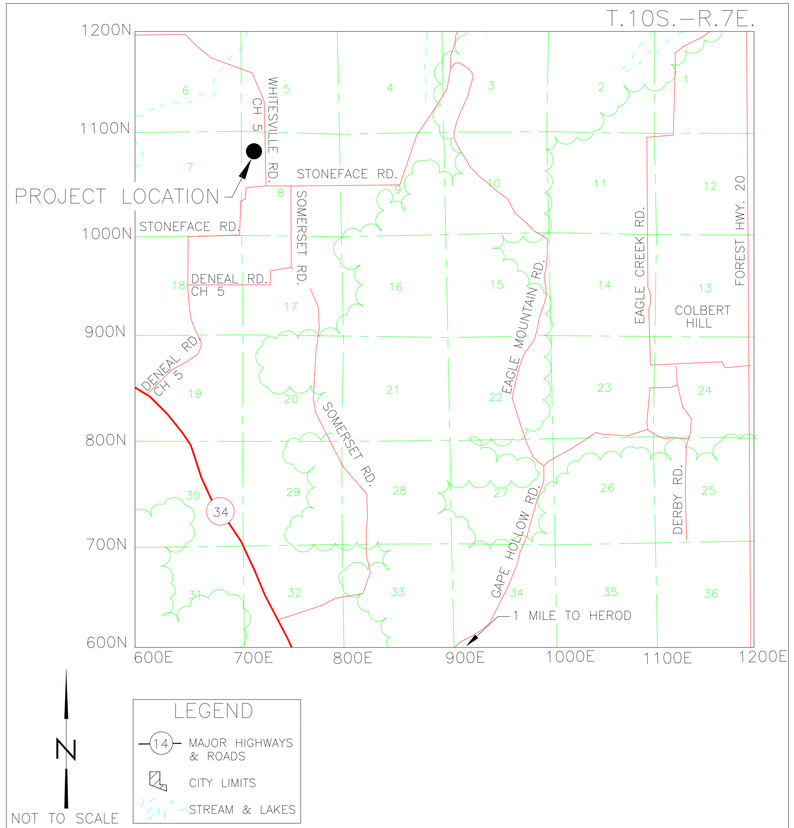
OLGA MOYA ARANZUBIA
062-062471
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS

Olga Moya Aranzubia, P.E.
IL Licensed Professional Engineer
No. 062-062471

Summary of Quantities

Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	SPECIAL CLEARING	201	1	L SUM	
NRM20210	2	EARTH EXCAVATION	202	446,016	CU YD	Compaction per Section 205
NRM25040	3	NITROGEN FERTILIZER NUTRIENT	250	12,400	POUND	See
NRM25050	4	PHOSPHORUS FERTILIZER NUTRIENT	250	1,550	POUND	Schedule
NRM25060	5	POTASSIUM FERTILIZER NUTRIENT	250	3,100	POUND	Below
NRM25070	6	AGRICULTURAL GROUND LIMESTONE	250	465.0	TON	15.0 TONS/ACRE
NRM25090	7	SEEDING	250	31.0	ACRE	
25000350	8	SEEDING CLASS 7	IDOT 250	31.0	ACRE	Temporary Seeding as required
25100115	9	MULCH METHOD 2	IDOT 251	31.0	ACRE	Procedure 1 – 2.0 TONS/ACRE
A2001016	10	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER BALLED AND BURLAPPED	IDOT 253	30	EACH	Tree Planting locations shall be determined by the Engineer at the time of planting.
A2006416	11	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER BALLED AND BURLAPPED	IDOT 253	25	EACH	
A2006716	12	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER BALLED AND BURLAPPED	IDOT 253	25	EACH	
NRM25810	13	MOWING	258	31.0	ACRE	
NRM28031	14	TEMPORARY DITCH CHECKS	280	84	FOOT	Hay or Straw Bales See Detail D-27, Sheet #27
NRM28040	15	PERIMETER EROSION BARRIER	280	5,030	FOOT	Silt Fence Required IDOT Standard 280001-07
28100105	16	STONE RIPRAP, CLASS A3	IDOT 281	4,549	SQ YD	
NRM28610	17	SPECIAL EXCELSIOR BLANKET	286	30,389	SQ YD	8 Feet Wide Strips
35101400	18	AGGREGATE BASE COURSE, TYPE B	IDOT 351	191.0	TON	CA-6, 4" Lifts, 8" Total thickness, see Detail C-27, Sheet #27
40200100	19	AGGREGATE SURFACE COURSE, TYPE A	IDOT 402	46.0	TON	CA-1, 8" Total thickness, see Sheet #9 for proposed location of low water crossing.
NRM61410	20	DEWATERING IMPOUNDMENTS	614	1	L SUM	
NRM61511	21	*LCD – COARSE AGGREGATE CA-1	615	1,289.0	TON	>90% Calcium Carbonate
NRM61516	22	*LCD – COARSE AGGREGATE CA-6	615	783.0	TON	>90% Calcium Carbonate
NRM61530	23	*LCD – COMPOST	615	627	CU YD	
NRM61540	24	*LCD – FILTER FABRIC	615	14,409	SQ YD	
NRM61550	25	*LCD – POLYETHYLENE LINER	615	8,920	SQ YD	30 mils. Minimum – High Density
NRM66510	26	BARBED WIRE FENCE	665	150	FOOT	See Detail B-27, Sheet #27
NRM67110	27	MOBILIZATION (MAX. 6% OF BID)	671	1	L SUM	

*LCD – Limestone Compost Drain



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 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 but 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 damage 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

ROADS–The contractor shall comply with the requirements of state and local roadway jurisdiction authorities as part of the satisfactory performance of the reclamation work.

BURIAL/REMOVAL OF MATERIAL–Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below the 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. The Seeding Class 7 pay item is reserved for temporary seeding of areas as directed by the Engineer to stabilize the soil and minimize erosion of graded areas.

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 completed, 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 2022 AUG. 20 – SEPT. 30	WINTER 2023 JAN. 1 – MAR. 15	SPRING 2023 MAY 15 – JUN. 15	TOTAL QUANTITY
SEEDING (acres)	31.0		Actual Date to be Approved by Engineer	31.0
AGRICULTURAL GROUND LIMESTONE (tons)	465.0 15 T/A			465.0
NITROGEN FERTILIZER NUTRIENT (pounds)	6,200 200 LB./A	6,200 200 LB./A		12,400
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,550 50 LB./A			1,550
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,100 100 LB./A			3,100
MULCH, METHOD 2 PROCEDURE 1 (acre)	31.0 2 T/A			31.0
MOWING (acres)			31.0	31.0

State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

Date : 09-13-21
OMA
Drawn By :
Checked By :

Summary of Quantities/
General Notes/Location Map
Sheet 2 of 28

*LCD – LIMESTONE COMPOST DRAIN SUMMARY OF QUANTITIES

#	ITEM	SECTION	QUANTITY	UNIT	RATES/REMARKS
21	*LCD – COARSE AGGREGATE CA–1	615	1,289.0	TON	>90% Calcium Carbonate
22	*LCD – COARSE AGGREGATE CA–6	615	783.0	TON	>90% Calcium Carbonate
23	*LCD – COMPOST	615	627	CU YD	
24	*LCD – FILTER FABRIC	615	14,409	SQ YD	
25	*LCD – POLYETHYLENE LINER	615	8,920	SQ YD	30 mils. Minimum – High Density

NOTES:

1. ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201. CLEARED TREES AND BRUSH SHALL BE REMOVED FROM THE SITE OR DISPOSED OF ON SITE BY BURNING IN ACCORDANCE WITH ARTICLE 202.03 OF THE SPECIAL PROVISIONS.

2. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.

3. IMPOUNDMENTS ARE TO BE DEWATERED IN ACCORDANCE WITH SECTION 614 OF THE SPECIAL PROVISIONS. APPROXIMATE IMPOUNDMENT VOLUMES ARE SHOWN ON THE PLANS.

4. ADDITIONAL AREAS OF SHALLOW STANDING WATER EXIST AND MAY APPEAR BEFORE AND DURING CONSTRUCTION. DEWATERING AND TREATMENT, IF NECESSARY, SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR DEWATERING IMPOUNDMENTS.

5. SEE DETAIL SHEET #27, FOR CONSTRUCTION SIGN AND TYPICAL DETAILS.

6. ACCESS TO PROPERTY OWNERS, SHALL BE MAINTAINED AT ALL TIMES DURING THE ENTIRE DURATION OF THE PROJECT.

7. 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.

8. DURING THE CONSTRUCTION OF THE LIME COMPOST DRAIN (LCD), EXTREME CAUTION SHALL BE UTILIZED WHEN EXCAVATING AT THE TOE OF THE HIGHWALL, TO AVOID ANY POTENTIAL MATERIAL SLIDES WHEN PREPARING THE HIGHWALL FACE AND PIT FLOOR FOR LCD PLACEMENT. SEE DETAILS, SHEET #27. MATERIAL SLIDE EXCAVATION SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION. THE PROPOSED LCD ALIGNMENT AND GRADES SHOWN ON THE PLANS ARE APPROXIMATE. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE ALIGNMENT AND GRADE TO MATCH THE SITE CONDITIONS.

9. EXISTING SCATTERED MINE REFUSE SHALL BE EXCAVATED AND PLACED AT LEAST 10' BELOW FINAL GRADE. MINE REFUSE EXCAVATION SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.

CP#	ELEV.	NORTHING	EASTING
GRND BASE	401.296	366595.828	946846.362
1001	359.844	366535.474	945559.946
1002	386.273	366465.357	946910.111
1003	390.665	363840.815	945986.216
1004	373.379	363847.556	946957.259

TRAVERSE LAYOUT DATA

CP#1001
GRND BASE
CP#1002
CP#1003
CP#1004
SW 1/4 of SW 1/4 of SECTION 5, T10S, R7E
NW 1/4 of NW 1/4 of SECTION 8, T10S, R7E
SW 1/4 of NW 1/4 of SECTION 8, T10S, R7E
NW 1/4 of SW 1/4 of SECTION 8, T10S, R7E
STA. 22+00 N:366246 E:946240
STA. 0+00 N:364046 E:946240
BASELINE
PROPOSED LOW WATER CROSSING AREA=1,330 SQ. FT., 8" THICKNESS AGGREGATE SURFACE COURSE, TYPE A, CA–1 (46.0 TONS)
PROPOSED BASIN A OUTLET STONE RIPRAP, A–3 (52 SQ. YD.)
PROPOSED CHANNEL C OUTLET STONE RIPRAP, A–3 (277 SQ. YD.)
PROPOSED NORTHWEST BASIN STONE RIPRAP, A–3 (104 SQ. YD.)
PROPOSED SOUTHWEST BASIN STONE RIPRAP, A–3 (253 SQ. YD.)
CONSTRUCTION SIGN APPROXIMATE LOCATION SEE DETAIL A–27
PROPOSED SITE ACCESS PRIVATE ROCK DRIVEWAY
PROPOSED ACCESS ROAD RE–CONDITIONING LENGTH= 256 FT., WIDTH=16 FT., 8" THICKNESS AGGREGATE BASE COURSE, TYPE B, CA–6 (191.0 TONS), SEE DETAIL C–27
PROPOSED LIME COMPOST DRAIN, (LCD) (1,425 FEET), SEE SUMMARY OF QUANTITIES SEE DETAIL F–27 AND G–27, SHEET #27
PROPOSED CHANNEL C STONE RIPRAP, A–3 (2,635 SQ. YD.) SEE DETAIL E–27
PROPOSED CHANNEL A & B OUTLET STONE RIPRAP, A–3 (58 SQ. YD.)
PROPOSED CHANNEL B STONE RIPRAP, A–3 (199 SQ. YD.) SEE DETAIL E–27
PROPERTY LINE LIMITS AREA TO REMAIN UNDISTURBED
PROPOSED CHANNEL A STONE RIPRAP, A–3 (773 SQ. YD.) SEE DETAIL E–27
PROPOSED CHANNEL A INLET STONE RIPRAP, A–3 (198 SQ. YD.)
WHITESVILLE RD. (OIL & CHIP)
STONEFACE RD. (OIL & CHIP)

N
0' 100' 200'
SCALE IN FEET

6/9
5/8
4/7
SHEET LAYOUT

EXISTING CONTOUR
PROPOSED CONTOUR
CONSTRUCTION LIMITS
TREELINE
WATER WAY
SECTION LINE
OHP OVERHEAD POWER LINE
FENCE LINE
CONTROL POINT
LEGEND

Site Layout
Survey Control Point Data
Sheet 3 of 28

Drawn By: OMA Date: 09-13-21
Checked By:

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

State of Illinois
Department of Natural Resources

N:364712
E:945683

N:364684
E:945745

N:364361
E:945766

N:364261
E:945799

N:364096
E:945981

N:364206
E:946305

N:364622
E:946300

N:364620
E:946420

N:364603
E:946310

N:364791
E:946484

N:364750
E:946529

N:363821
E:946311

WATER LEVEL
406.5

WATER LEVEL
401.6

WATER LEVEL
400.7

EXISTING HIGHWALL

EXISTING SEEPAGE AREA
SEE NOTE #8, SHEET #3

EXISTING SEASONAL AREA OF
SHALLOW STANDING WATER
SEE NOTE #4, SHEET #3

EXISTING SCATTERED MINE REFUSE
SHALL BE EXCAVATED AND PLACED
AT LEAST 10' BELOW FINAL GRADE
(APPROXIMATELY 0.4 ACRES)
SEE NOTE #9, SHEET #3

EXISTING FENCE TO REMAIN

EXISTING FENCE TOREMAIN

BASELINE

7+00
6+00
5+00
4+00
3+00
2+00
1+00
0+00

WHITESVILLE RD.
(OIL & CHIP)

STONEFACE RD.
(OIL & CHIP)

PROPERTY LINE LIMITS
AREA TO REMAIN UNDISTURBED

EXISTING BUILDINGS TO REMAIN

SW 1/4 of NW 1/4 of SECTION 8, T10S, R7E

NW 1/4 of SW 1/4 of SECTION 8, T10S, R7E

N

0' 50' 100'
SCALE IN FEET

6/9
5/8
4/7
SHEET LAYOUT

EXISTING CONTOUR
CONSTRUCTION LIMITS
TREELINE
WATER WAY
SECTION LINE
OHP OVERHEAD POWER LINE
FENCE LINE
LEGEND

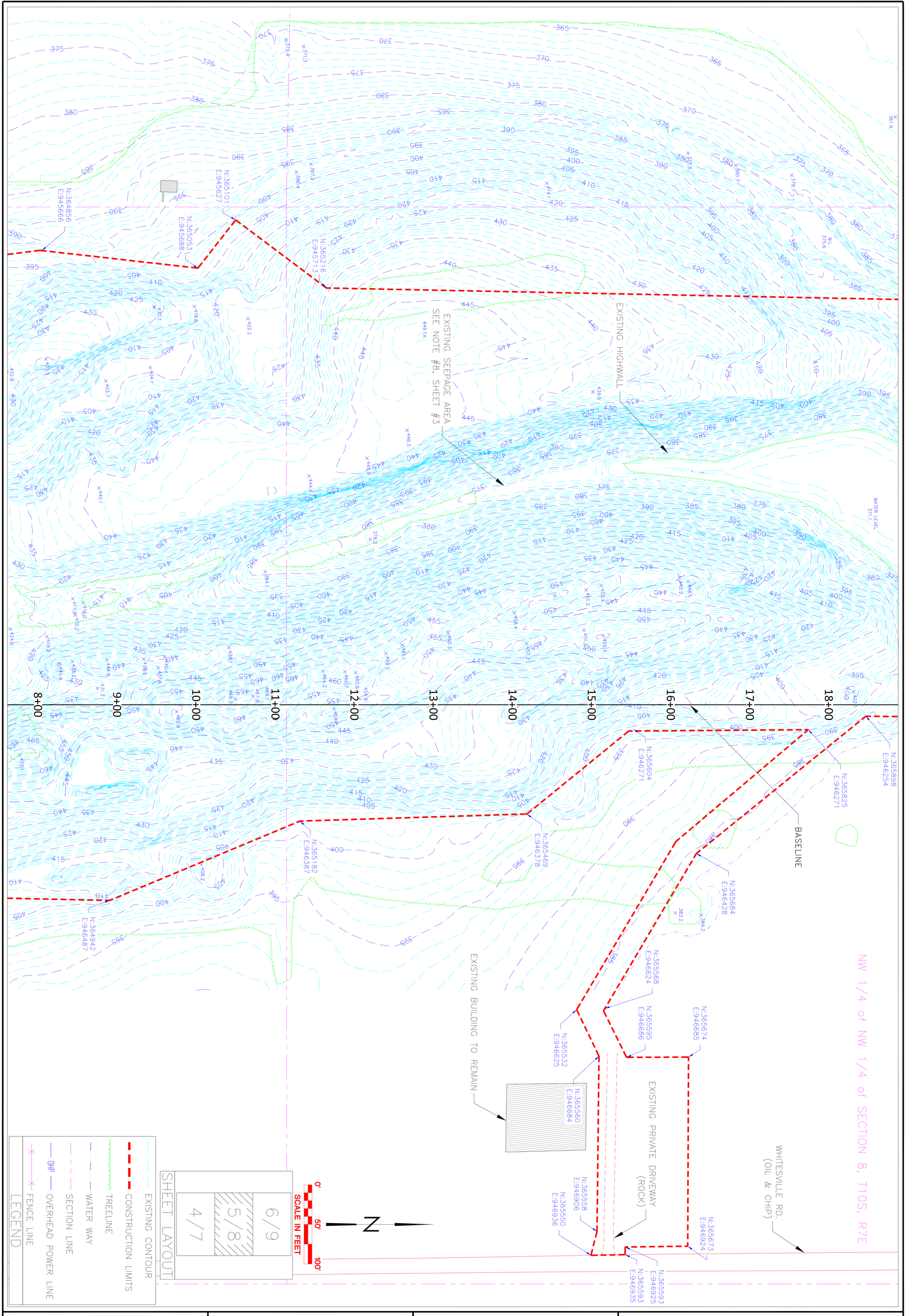
State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

Drawn By: OMA
Checked By:
Date: 09-13-21

Existing Conditions

Sheet 4 of 28



Existing Conditions Sheet 5 of 28	Drawn By: OMA Date: 09-13-21 Checked By:	Beecher Williams No. 1 Reclamation Project AML-GSIE-2007A Saline County	*State of Illinois* *Department of Natural Resources*

N

0' 50' 100'

SCALE IN FEET

6/9
5/8
4/7

SHEET LAYOUT

EXISTING CONTOUR
CONSTRUCTION LIMITS
TREELINE
WATER WAY
SECTION LINE
OHP OVERHEAD POWER LINE
FENCE LINE

LEGEND

SW 1/4 of SW 1/4 of SECTION 5, T10S, R7E

EXISTING IMPOUNDMENT TO REMAIN
MEASURED FIELD pH=5.0 (03-04-2021)

EXISTING IMPOUNDMENT – PIT #1
TO BE DEWATERED
ESTIMATED VOLUME: 1.6 MILLION GALLONS
ESTIMATED AVERAGE DEPTH: 4 FEET
pH: 3.04, ACIDITY: 460 mg/L (03-04-2021)

EXISTING SEEPAGE AREA
SEE NOTE #8, SHEET #3

EXISTING HIGHWALL

N:365973
E:945728

N:366198
E:945875

N:366204
E:946149

BASELINE

22+00
21+00
20+00
19+00

EXISTING IMPOUNDMENT TO REMAIN
MEASURED FIELD pH=7.3 (03-04-2021)

N:366172
E:946318

N:366099
E:946316

N:366072
E:946257

EXISTING IMPOUNDMENT TO REMAIN
MEASURED FIELD pH=7.6 (03-04-2021)

WHITESVILLE RD.
(OIL & CHIP)

WATER LEVEL 365.0
WATER LEVEL 365.0
WATER LEVEL 370.6
WATER LEVEL 367.3
WATER LEVEL 383.1

State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

Drawn By: OMA
Date: 09-13-21
Checked By:

Existing Conditions

Sheet 6 of 28

PROPOSED NORTHWEST BASIN
STONE RIPRAP, A–3 (104 SQ. YD.)
SEE DETAIL E–27

PROP. LIME COMPOST DRAIN (LCD)
(1,425 FEET) SEE DETAIL F–27
SEE SUMMARY OF QUANTITIES

PROPOSED SLOPE 8:1

PROPOSED SLOPE 4:1

PERIMETER EROSION BARRIER
SILT FENCE (224 FEET)

WHITESVILLE RD.
(OIL & CHIP)

WATER LEVEL
406.5

7+00
6+00
5+00
4+00
3+00
2+00
1+00
0+00

N:364603
E:946310

PROPERTY LINE LIMITS
AREA TO REMAIN UNDISTURBED

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D–27

SW 1/4 of NW 1/4 of SECTION 8, T10S, R7E

WATER LEVEL
400.7

PROPOSED CHANNEL A
STONE RIPRAP, A–3
(773 SQ. YD.) SEE DETAIL E–27

WATER LEVEL
401.6

PERIMETER EROSION BARRIER
SILT FENCE (1,131 FEET)

PROPOSED SOUTHWEST BASIN
STONE RIPRAP, A–3 (253 SQ. YD.)
SEE DETAIL E–27

PERIMETER EROSION BARRIER
SILT FENCE (365 FEET)

BASELINE

PROPOSED BASIN A INLET
STONE RIPRAP, A–3 (198 SQ. YD.)
SEE DETAIL E–27

PROPOSED BARBED
WIRE FENCE (150 FEET)
SEE DETAIL B–27

STONEFACE RD.
(OIL & CHIP)

NW 1/4 of SW 1/4 of SECTION 8, T10S, R7E

N

0' 50' 100'
SCALE IN FEET

SHEET LAYOUT
6/9
5/8
4/7

LEGEND
- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- TREELINE
- WATER WAY
- SECTION LINE
- OHP — OVERHEAD POWER LINE
- FENCE LINE

State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

Drawn By: OMA
Date: 09-13-21
Checked By:

Proposed Conditions

Sheet 7 of 28

NW 1/4 of NW 1/4 of SECTION 8, T10S, R7E

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D-27

PERIMETER EROSION BARRIER
SILT FENCE (434 FEET)

WHITESVILLE RD.
(OIL & CHIP)

PROPOSED ACCESS ROAD RE-CONDITIONING
LENGTH= 256 FT., WIDTH=16 FT., 8" THICKNESS
AGGREGATE BASE COURSE, TYPE B, CA-6
(191.0 TONS), SEE DETAIL C-27

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D-27

PROP. STREAM CROSSING
SEE SPECIAL PROVISION
SECTION 616

SITE ACCESS

PROP.LIME COMPOST DRAIN, (LCD)
(1,425 FEET) SEE DETAIL F-27
SEE SUMMARY OF QUANTITIES

BASELINE

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D-27

PERIMETER EROSION BARRIER
SILT FENCE (1,155 FEET)

PROPOSED SLOPE 4:1

PERIMETER EROSION BARRIER
SILT FENCE (1,129 FEET)

PROPOSED CHANNEL C
STONE RIPRAP, A-3
(2,635 SQ. YD.)
SEE DETAIL E-27

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D-27

PROPOSED CHANNEL A & B OUTLET
STONE RIPRAP, A-3
(58 SQ. YD.)
SEE DETAIL E-27

PROPOSED CHANNEL A
STONE RIPRAP, A-3
(773 SQ. YD.)
SEE DETAIL E-27

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D-27

TEMPORARY DITCH CHECK
(12 FEET) SEE DETAIL D-27

PROPOSED CHANNEL B
STONE RIPRAP, A-3
(199 SQ. YD.)
SEE DETAIL E-27

PERIMETER EROSION BARRIER
SILT FENCE (1,131 FEET)

PROPOSED NORTHWEST BASIN
STONE RIPRAP, A-3 (104 SQ. YD.)
SEE DETAIL E-27

18+00
17+00
16+00
15+00
14+00
13+00
12+00
11+00
10+00
9+00
8+00

WATER LEVEL
371.1

W.L.
375.6

N

0' 50' 100'
SCALE IN FEET

SHEET LAYOUT

6/9	
5/8	
4/7	

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- TREELINE
- WATER WAY
- SECTION LINE
- OHP — OVERHEAD POWER LINE
- FENCE LINE

State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

Drawn By: OMA
Date: 09-13-21
Checked By:

Proposed Conditions

Sheet 8 of 28

N

0' 50' 100'

SCALE IN FEET

6/9
5/8
4/7

SHEET LAYOUT

EXISTING CONTOUR
PROPOSED CONTOUR
CONSTRUCTION LIMITS
TREELINE
WATER WAY
SECTION LINE
OHP OVERHEAD POWER LINE
FENCE LINE

LEGEND

SW 1/4 of SW 1/4 of SECTION 5, T10S, R7E

PROPOSED BASIN B
LCD POLYETHYLENE LINER (1,208 SQ. YD.)
SEE DETAIL G-27

PROPOSED CHANNEL C OUTLET
STONE RIPRAP, A-3
(277 SQ. YD.) SEE DETAIL E-27

PROPOSED BASIN A OUTLET
STONE RIPRAP, A-3 (52 SQ. YD.)
SEE DETAIL G-27

PROPOSED BASIN A
LCD POLYETHYLENE LINER (1,695 SQ. YD.)
SEE DETAIL G-27

PROP. LIME COMPOST DRAIN, (LCD)
(1,425 FEET) SEE DETAIL F-27
SEE SUMMARY OF QUANTITIES

PERIMETER EROSION BARRIER
SILT FENCE (592 FEET)

PROPOSED LOW WATER CROSSING
AREA=1,330 SQ. FT., 8" THICKNESS
AGGREGATE SURFACE COURSE, TYPE A, CA-1
(46.0 TONS)

22+00
BASELINE
21+00
20+00
19+00

EXISTING IMPOUNDMENT TO REMAIN

PERIMETER EROSION BARRIER
SILT FENCE (434 FEET)

WHITESVILLE RD.
(OIL & CHIP)

WATER LEVEL 365.0
WATER LEVEL 367.3
WATER LEVEL 365.0
WATER LEVEL 383.1

State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

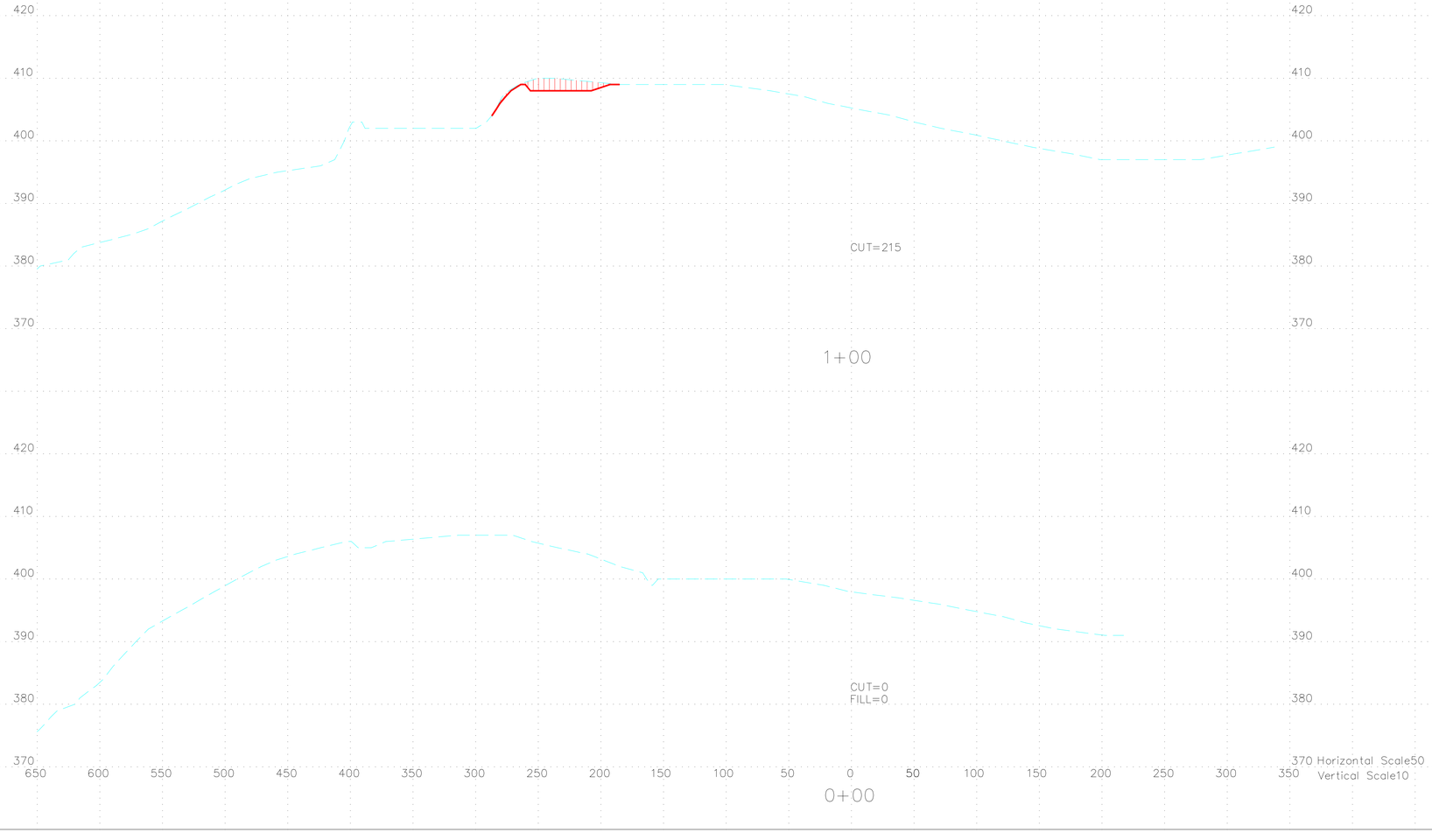
Drawn By: OMA
Date: 09-13-21
Checked By:

Proposed Conditions

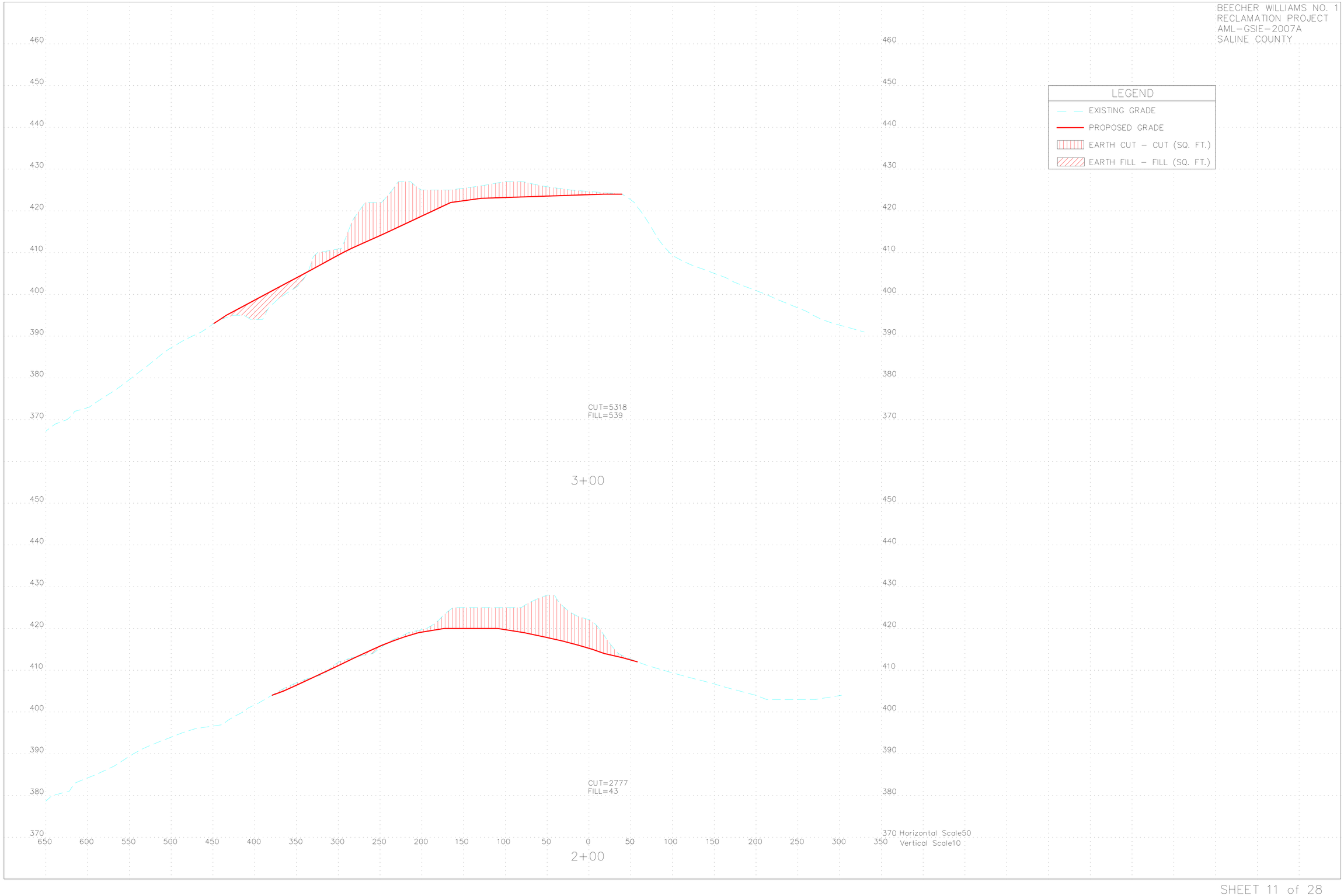
Sheet 9 of 28

BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



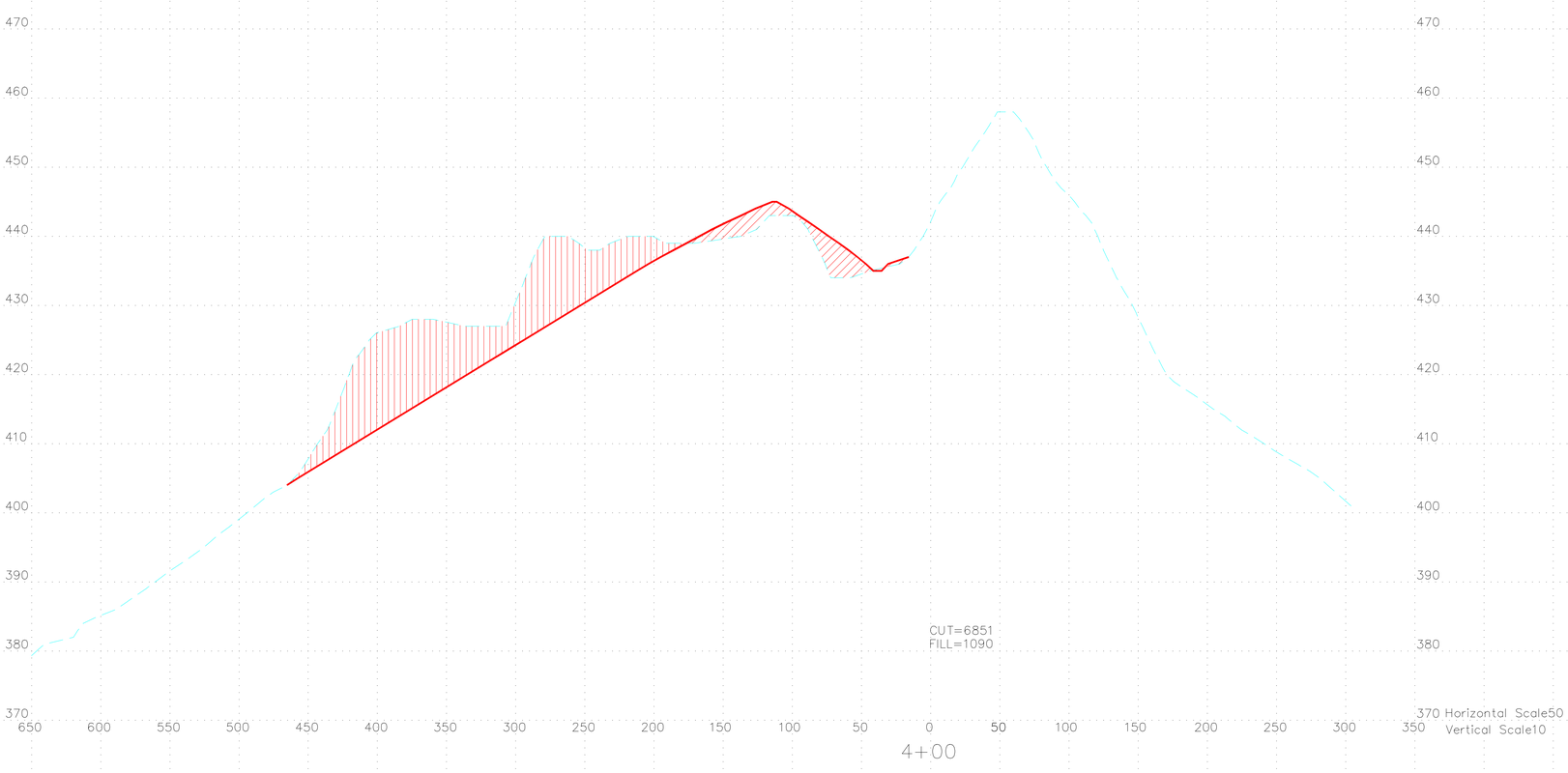
BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY



BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND

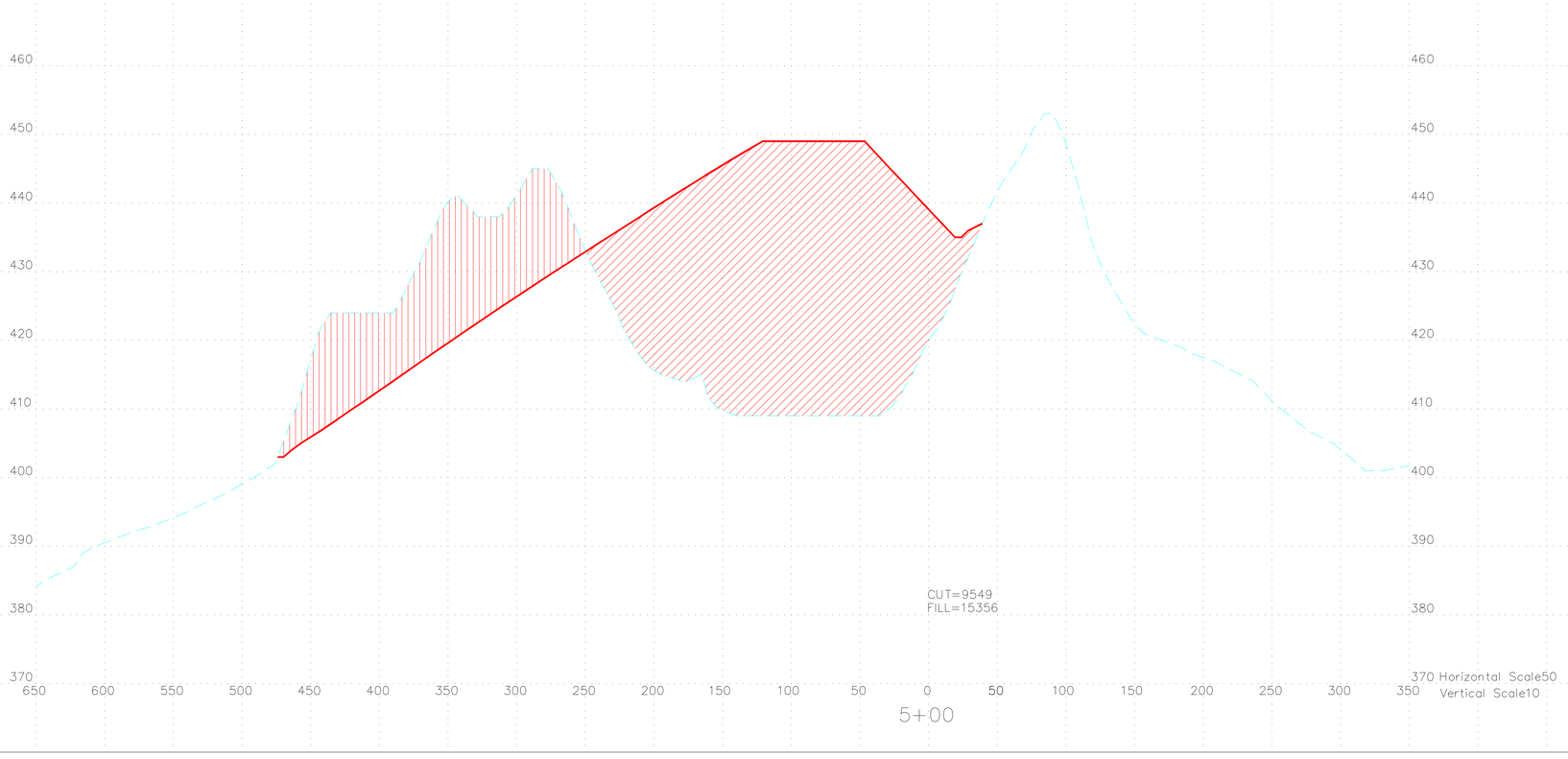
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND

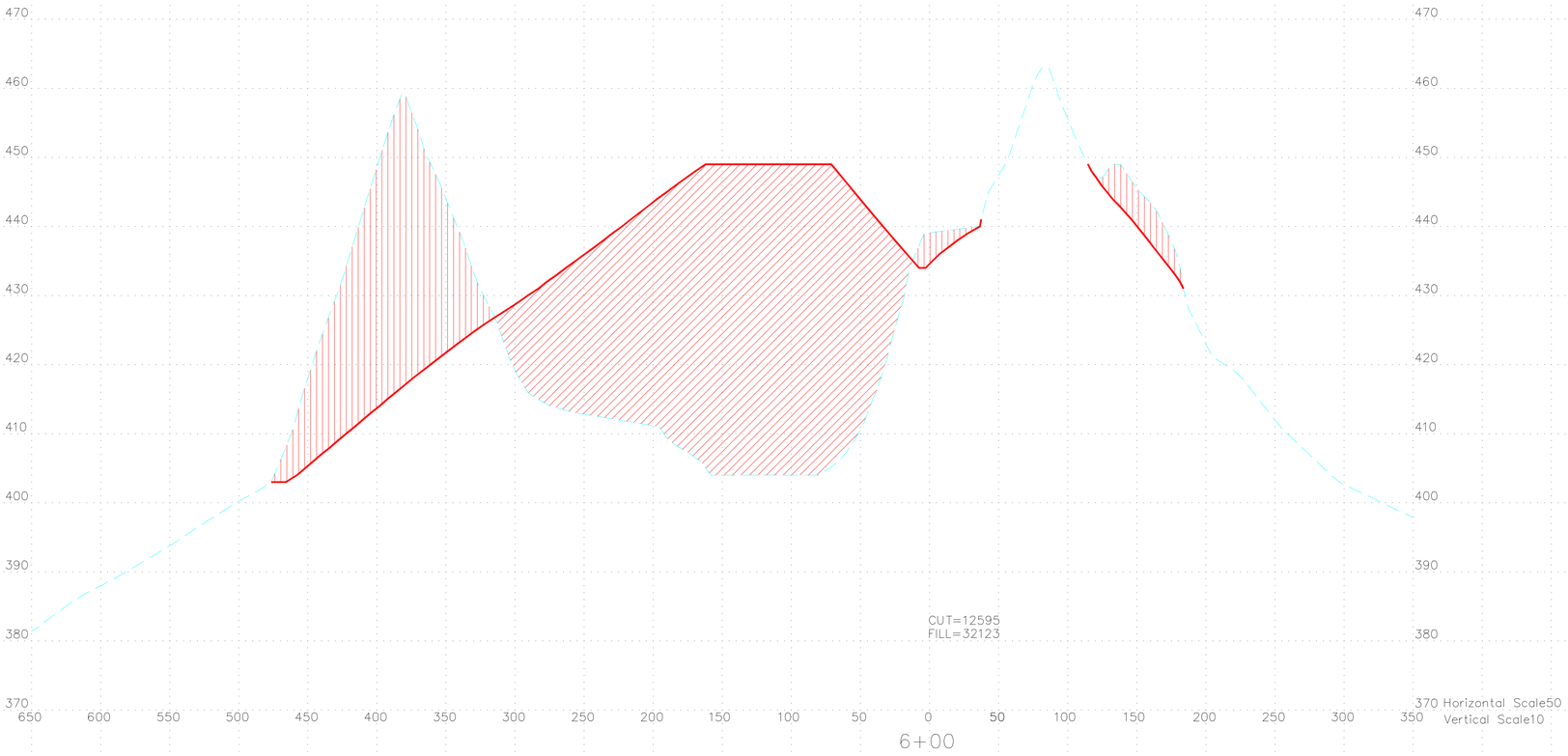
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND

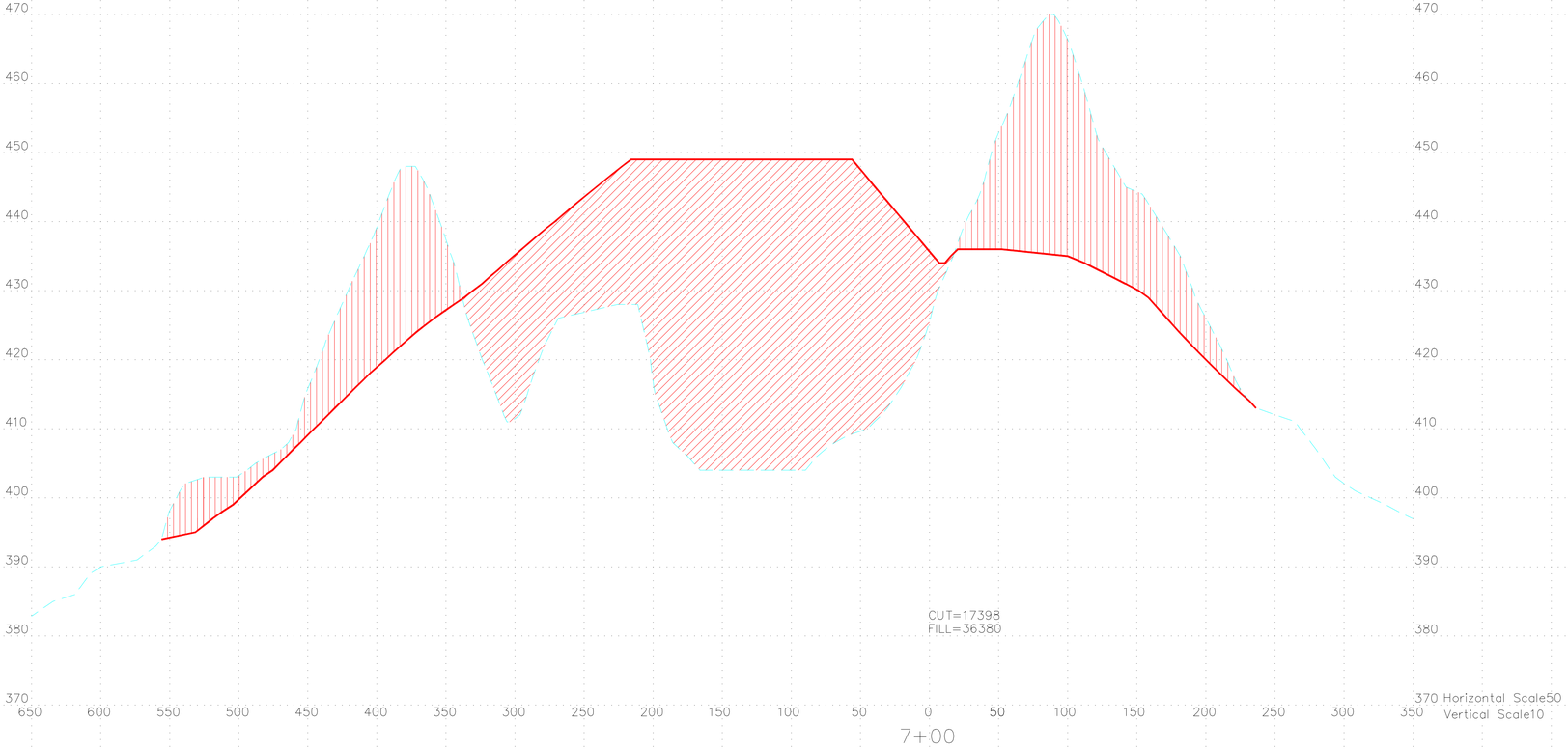
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



6+00

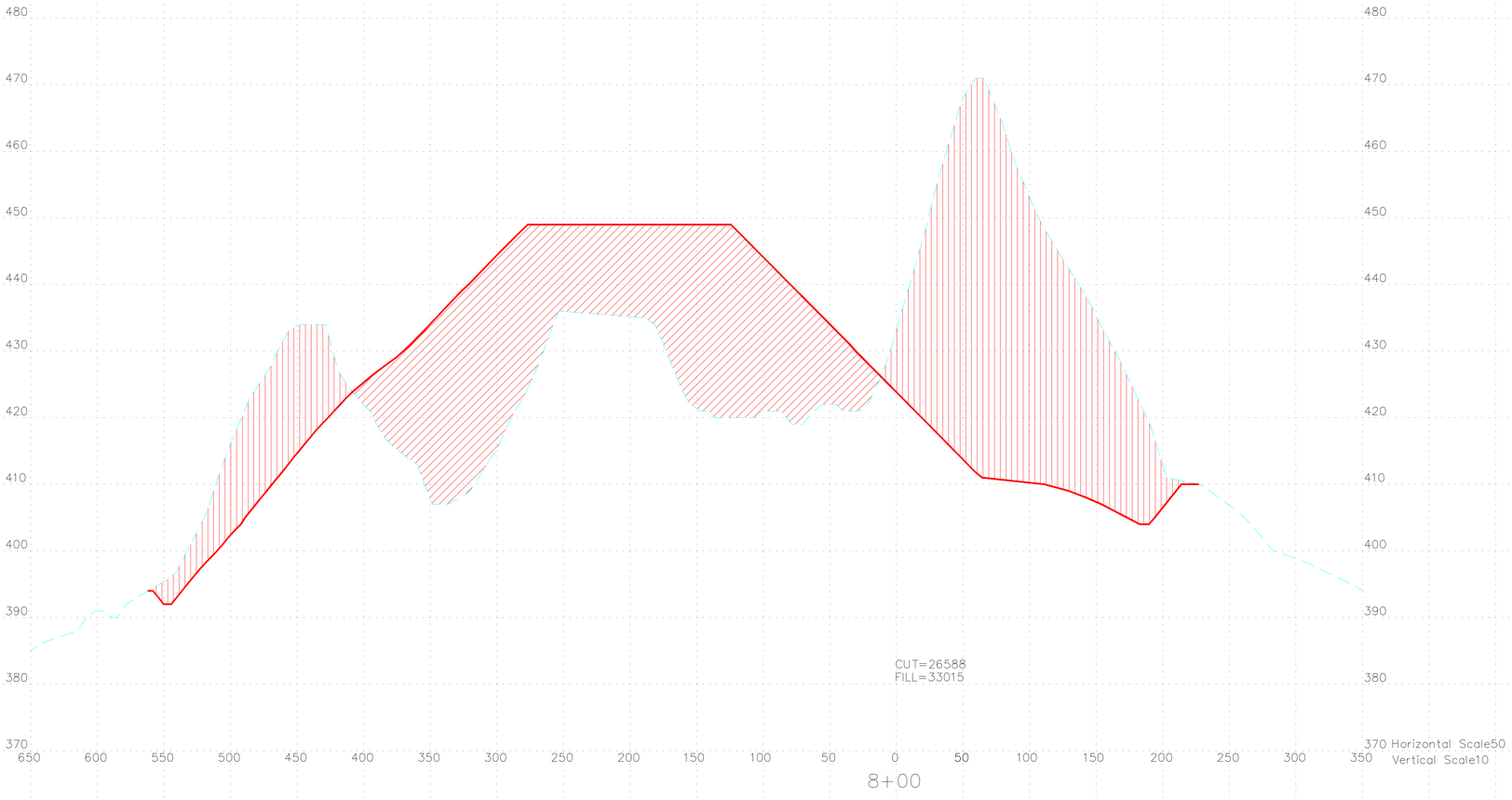
BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)

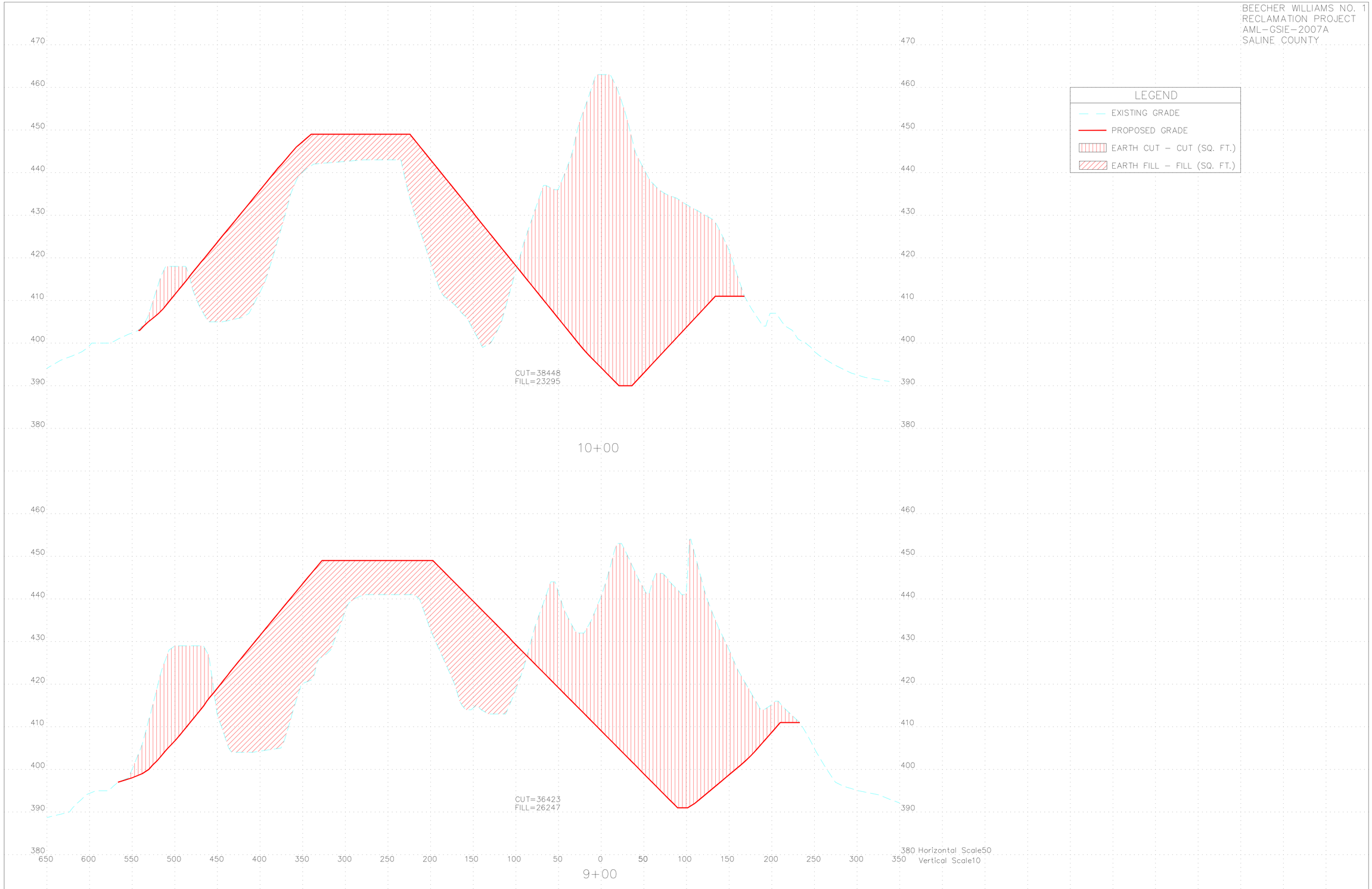


BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)

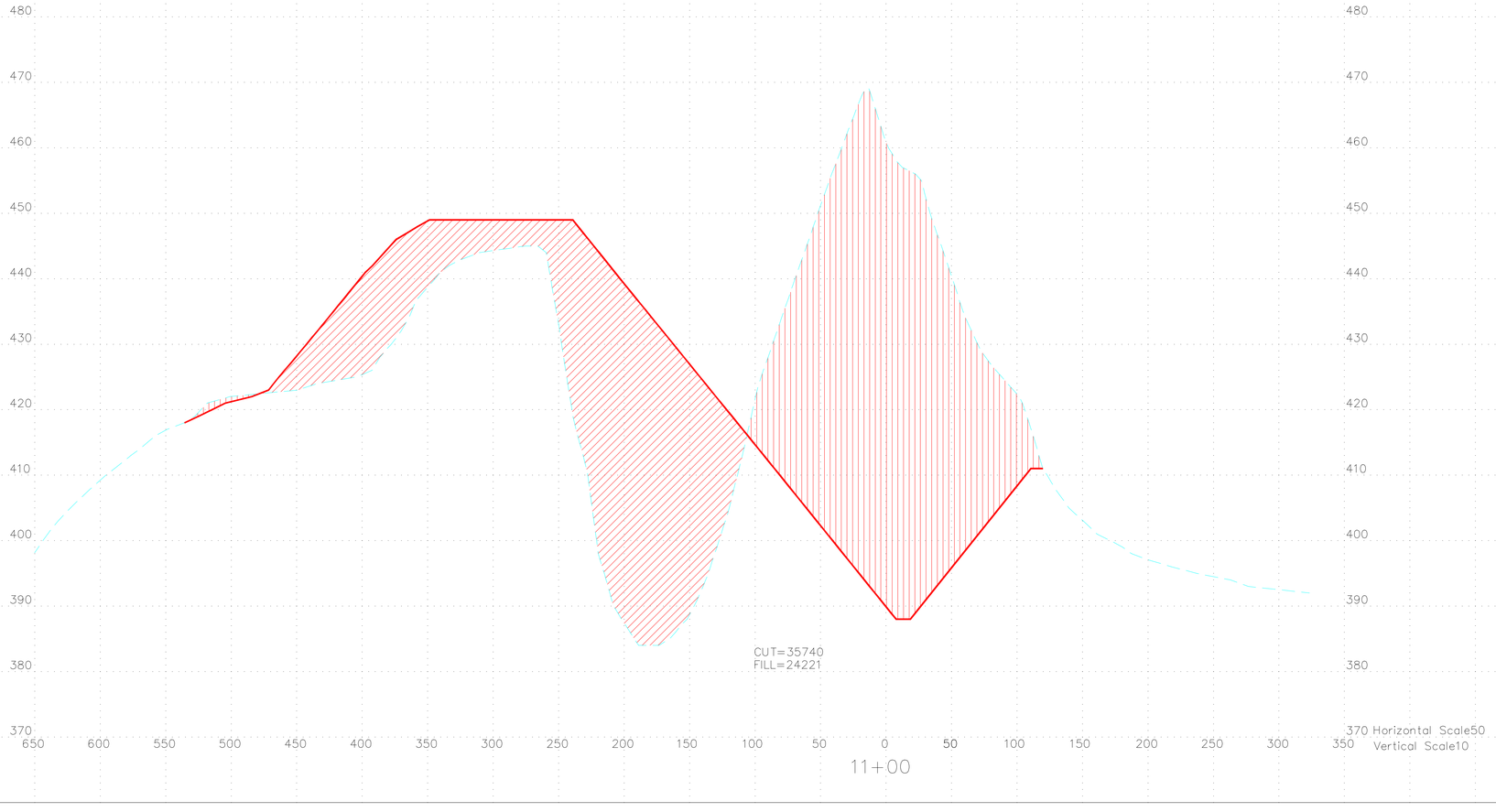


BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY



BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

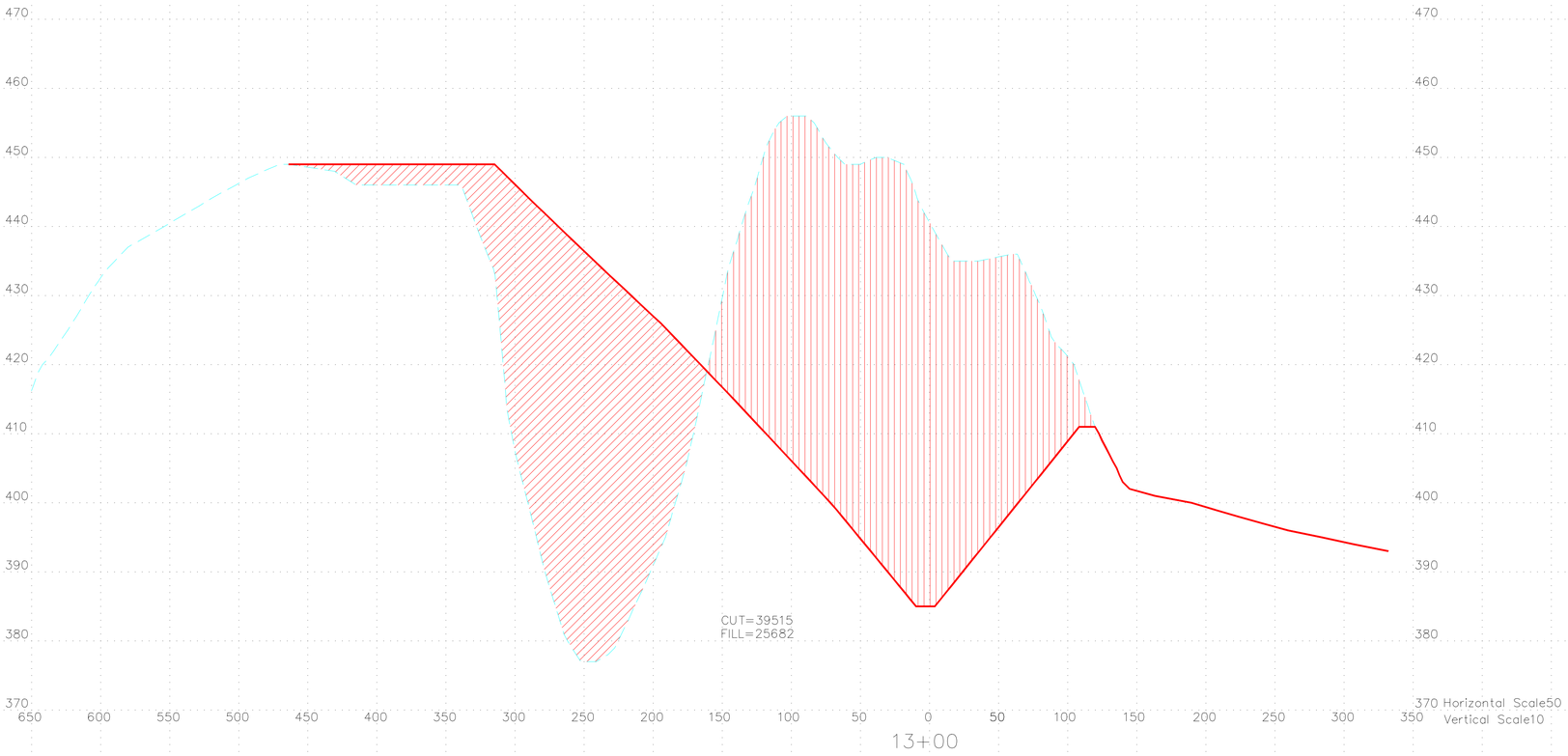
LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)

12+00

BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

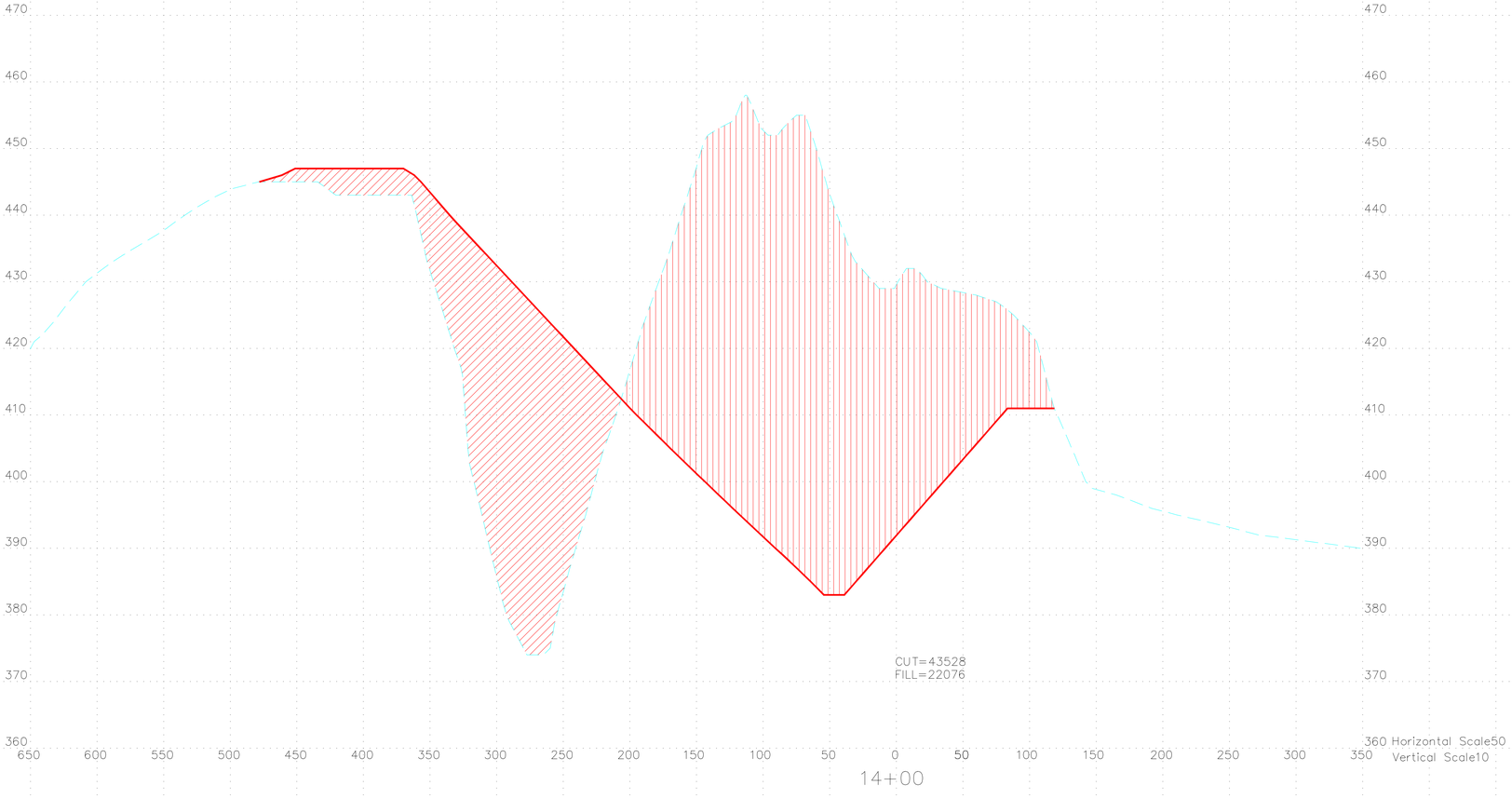
LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



13+00

BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

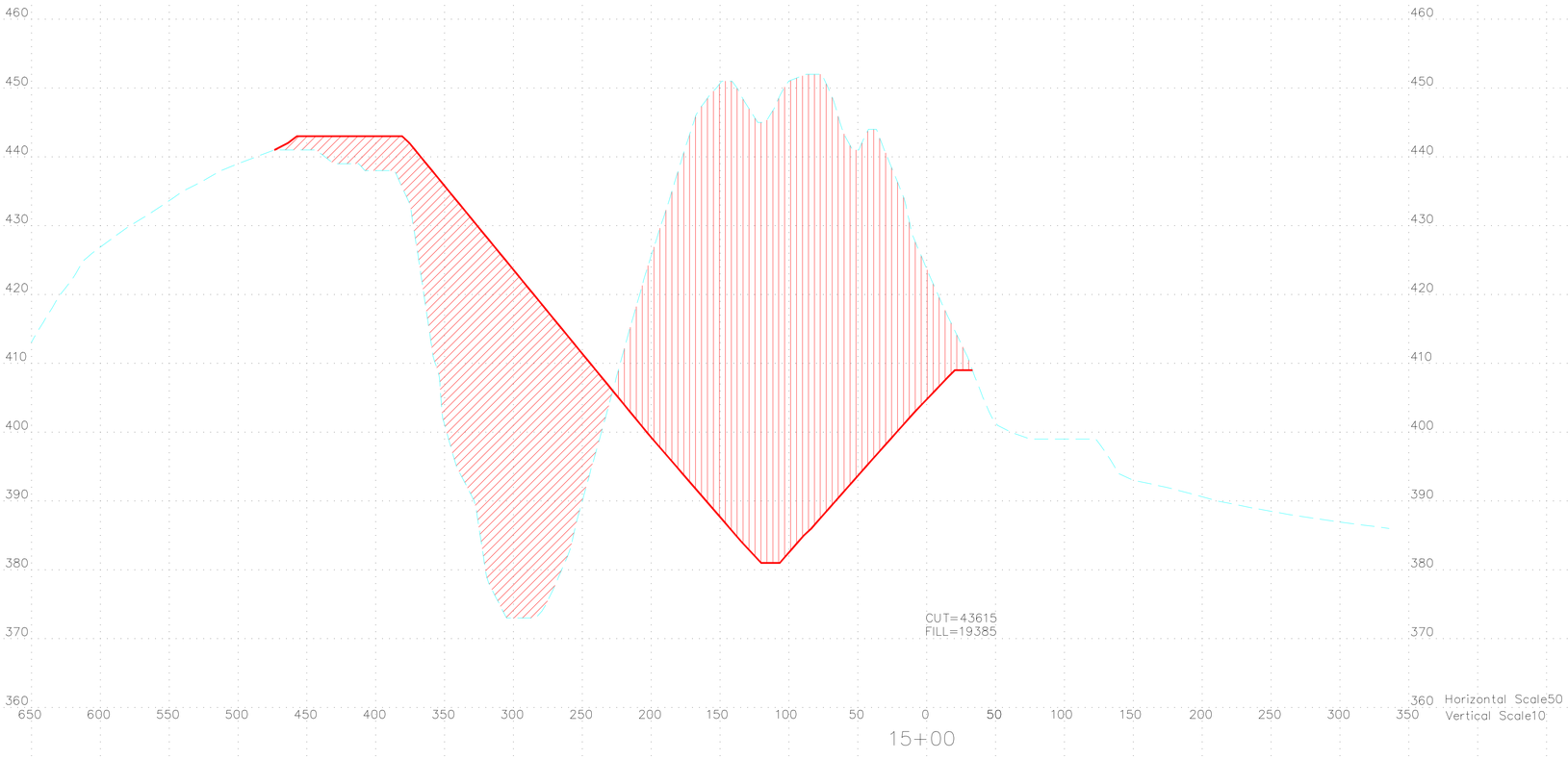
LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



14+00

BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND
- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)

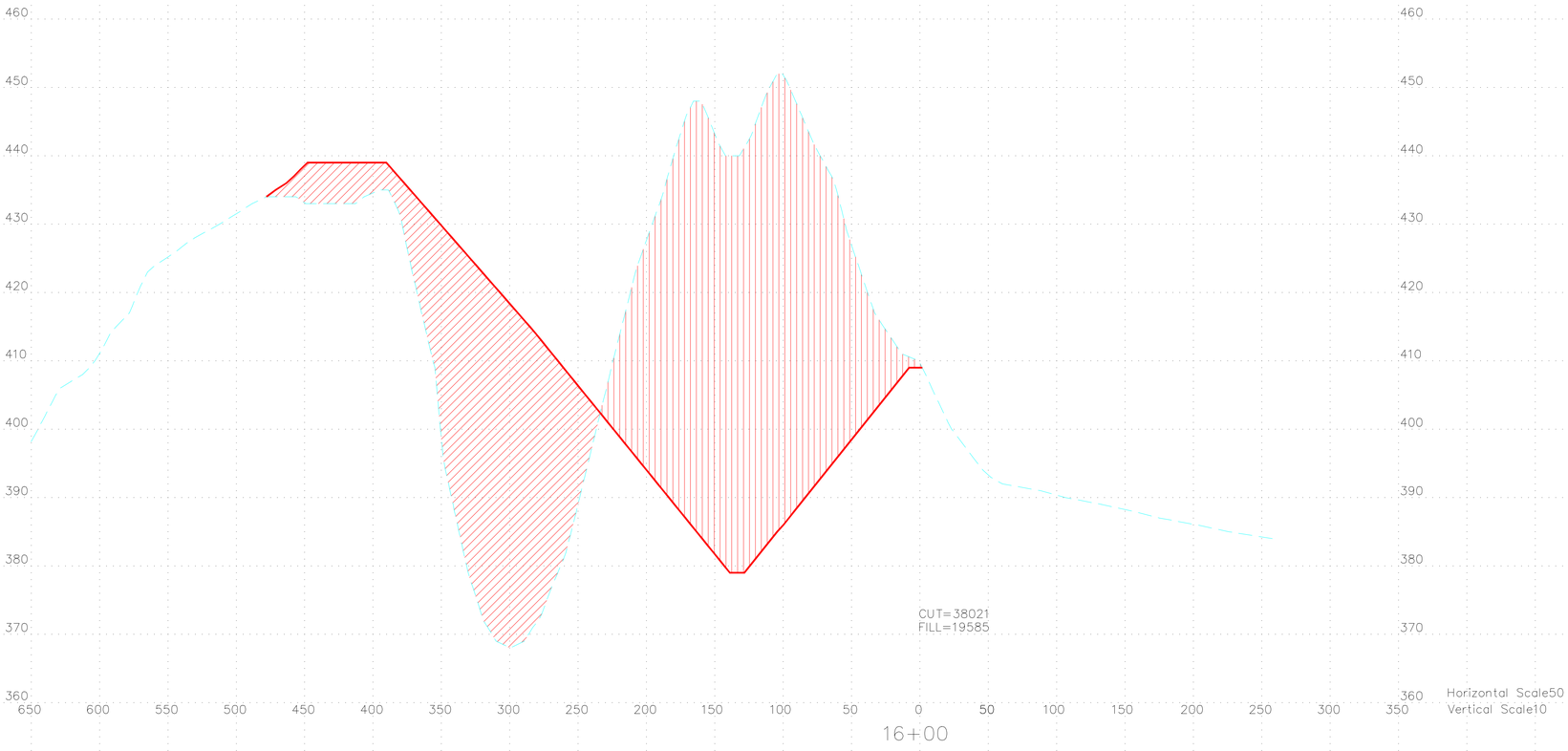


15+00

BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

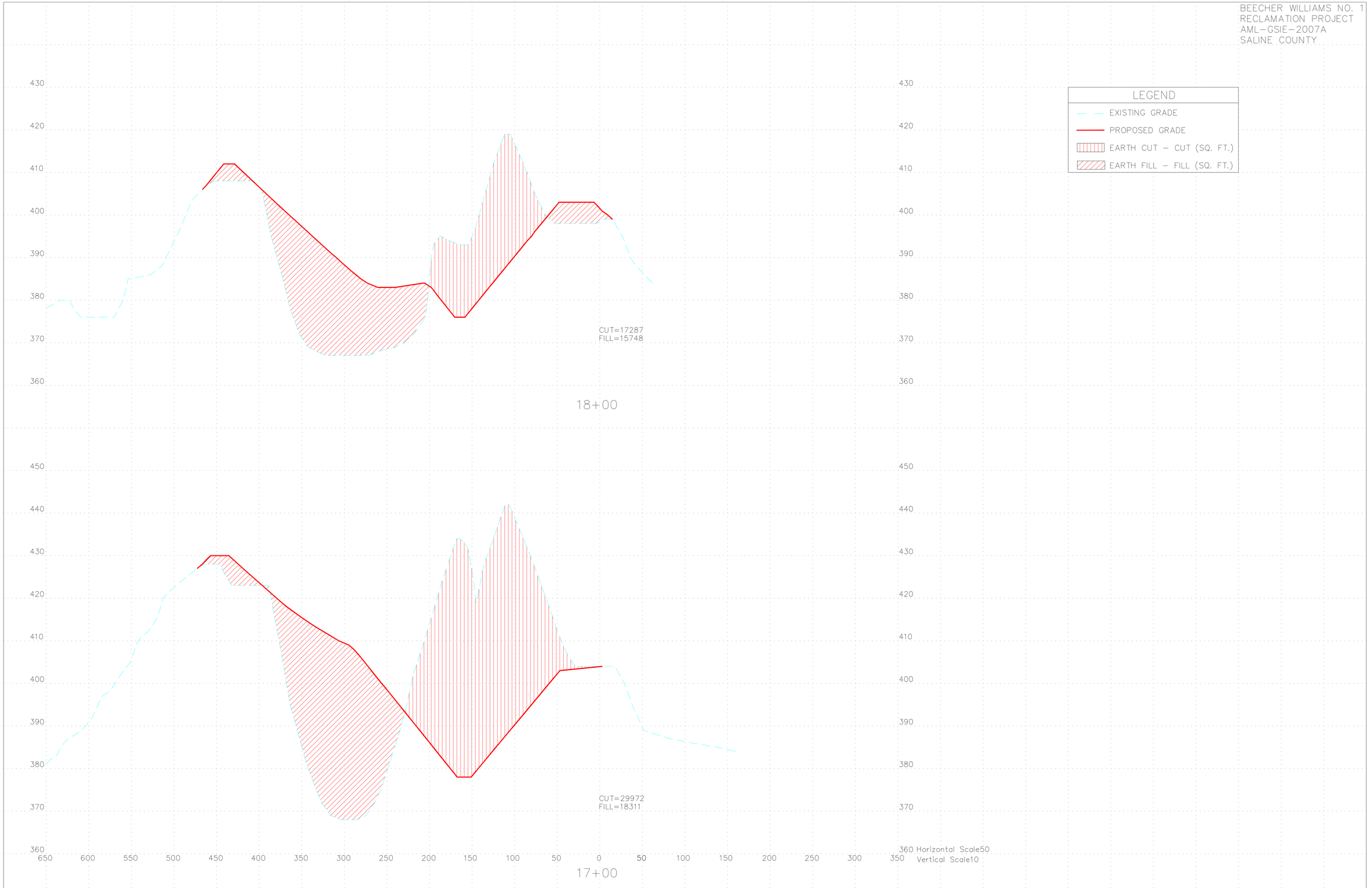
LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)

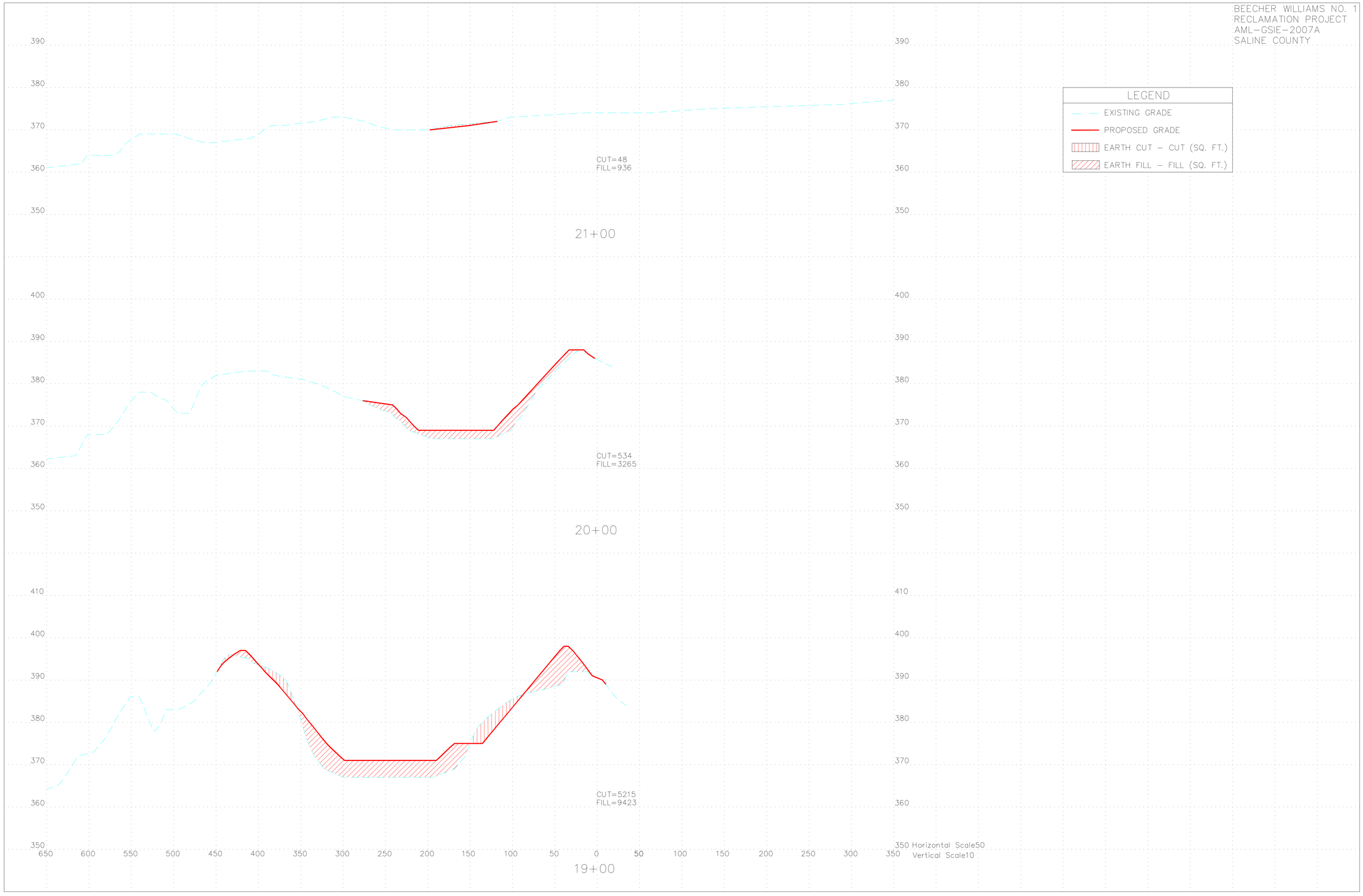


16+00

BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY



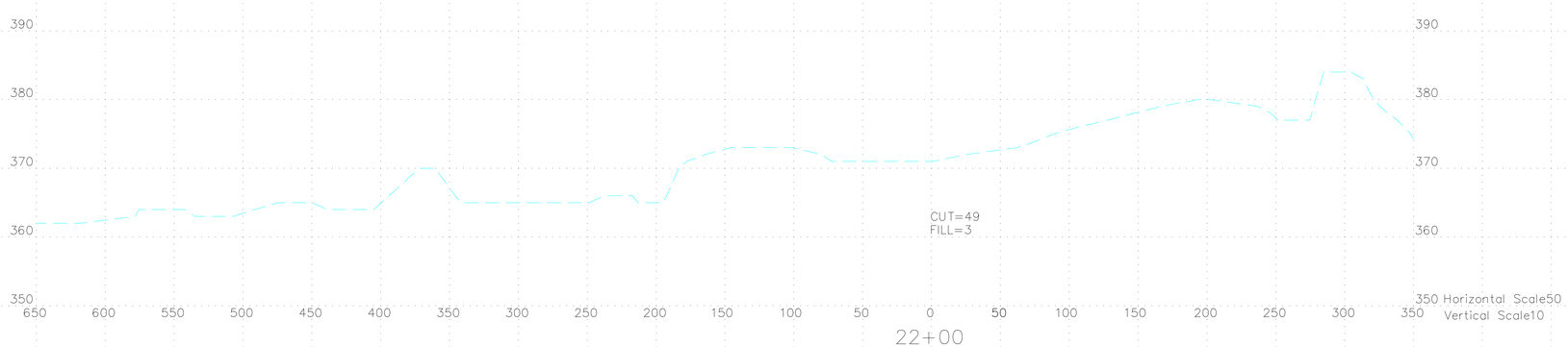
BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY



BEECHER WILLIAMS NO. 1
RECLAMATION PROJECT
AML-GSIE-2007A
SALINE COUNTY

LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- EARTH CUT - CUT (SQ. FT.)
- EARTH FILL - FILL (SQ. FT.)



22+00

SPACING LETTERS

4.5"
3.5"
1.5"
3.5"
2.5"
3.5"
3.5"
2.5"
3.5"
2.5"
1.5"
2.5"
3.0"
2.0"
1.5"
2.0"
4.5"

ABANDONED MINED LANDS RECLAMATION PROJECT STATE OF ILLINOIS

10" dia. state seal

J.B. PRITZKER, GOVERNOR

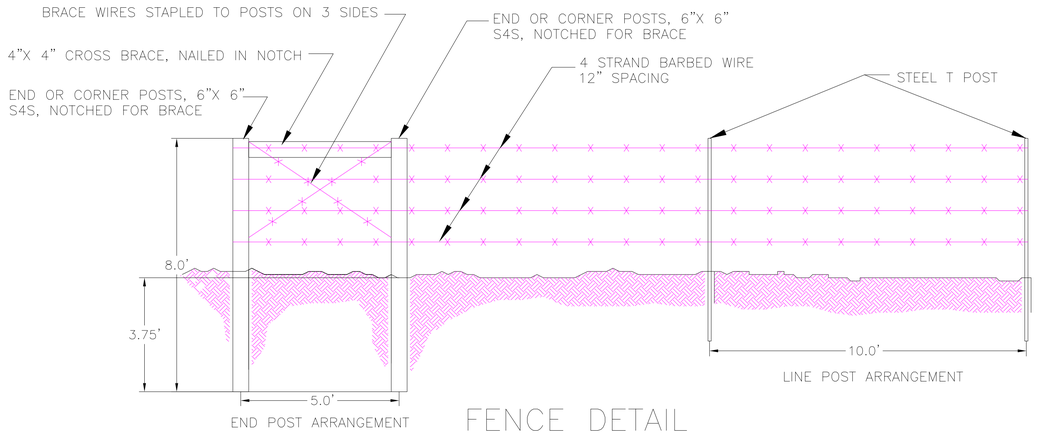
Department of Natural Resources
Colleen Callahan, Director

Funding provided by the US Department of the Interior
Office of Surface Mining, with fees paid by the Coal Industry

1. Furnishing, erecting and removing the sign shall be incidental to the contract.
2. The sign shall be painted on ½" 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, ⅜" 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.

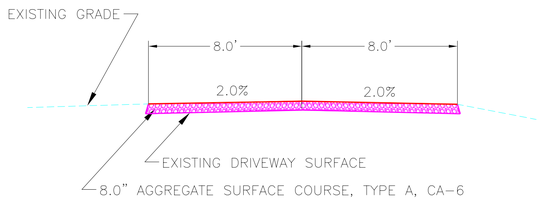
CONSTRUCTION SIGN DETAIL

DETAIL A–27, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



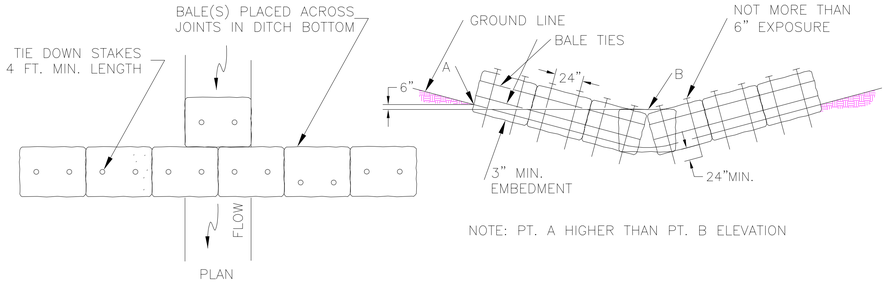
FENCE DETAIL

DETAIL B–27 – NOT TO SCALE



SITE ACCESS & DRIVEWAY

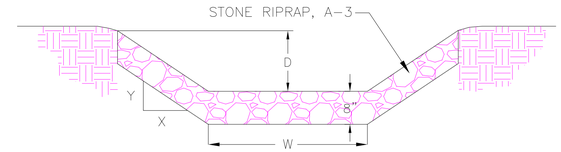
DETAIL C–27, TYPICAL SECTION, NOT TO SCALE



NOTE: PT. A HIGHER THAN PT. B ELEVATION

STRAW BALES FOR DITCH CHECKS

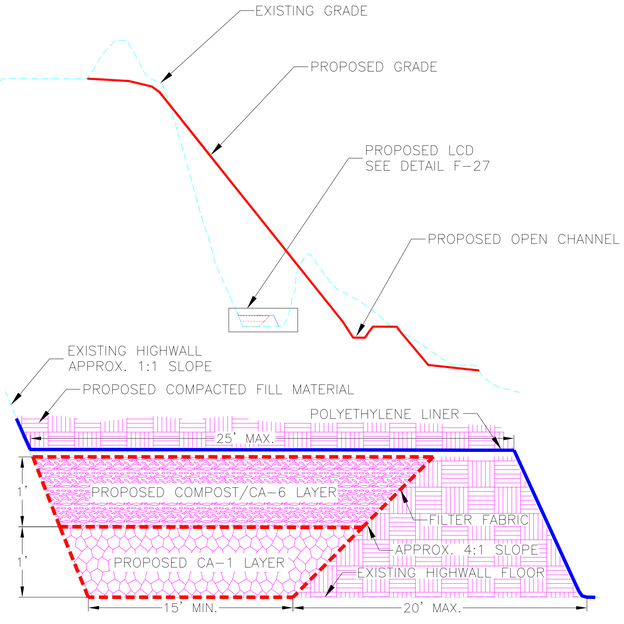
DETAIL D–27, TYPICAL SECTION, NOT TO SCALE



ITEM NAME	"W" DIMENSION	"D" DIMENSION	"X:Y" SLOPE	LENGTH	STONE RIPRAP A–3 (*BASIN QUANTITY)
PROP. CHANNEL A	4 FT.	1 FT.	4:1	568 FT.	773 SQ YD
PROP. CHANNEL A INLET	N/A	N/A	4:1	N/A	*198 SQ YD
PROP. CHANNEL B	4 FT.	1 FT.	4:1	146 FT.	199 SQ YD
PROP. CHANNEL A & B OUTLET	N/A	N/A	4:1	N/A	*58 SQ YD
PROP. CHANNEL C	8 FT.	1 FT.	4:1	983 FT.	2,635 SQ YD
PROP. CHANNEL C OUTLET	N/A	N/A	4:1	N/A	*277 SQ YD
PROP. SOUTHWEST BASIN	N/A	N/A	4:1	N/A	*253 SQ YD
PROP. NORTHWEST BASIN	N/A	N/A	4:1	N/A	*104 SQ YD
PROP. SEDIMENT BASIN A OUTLET	N/A	N/A	4:1	N/A	*52 SQ YD

STONE RIPRAP TRAPEZOIDAL CHANNEL

DETAIL E–27, TYPICAL SECTION, NOT TO SCALE



LIMESTONE COMPOST DRAIN

DETAIL F–27, TYPICAL CROSS SECTION & PROFILE, NOT TO SCALE

*LCD – LIMESTONE COMPOST DRAIN SUMMARY OF QUANTITIES

#	ITEM	SECTION	QUANTITY	UNIT	RATES/REMARKS
21	*LCD – COARSE AGGREGATE CA–1	615	1,289.0	TON	>90% Calcium Carbonate
22	*LCD – COARSE AGGREGATE CA–6	615	783.0	TON	>90% Calcium Carbonate
23	*LCD – COMPOST	615	627	CU YD	
24	*LCD – FILTER FABRIC	615	14,409	SQ YD	
25	*LCD – POLYETHYLENE LINER	615	8,920	SQ YD	30 mils. Minimum – High Density

NOTES:

1. THE LIMESTONE COMPOST DRAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 615 OF THE SPECIAL PROVISIONS.

2. THE HIGHWALL SIDE AND BASE MUST BE CLEAR OF ALL DEBRIS AND SEDIMENT, TO THE SATISFACTION OF THE ENGINEER, PRIOR TO THE LIMESTONE COMPOST DRAIN INSTALLATION. NO UNSUITABLE MATERIAL WILL BE ALLOWED WITHIN THE LIMESTONE COMPOST DRAIN CORRIDOR, AS DIRECTED BY THE ENGINEER. ANY COST ASSOCIATED WITH THE REMOVAL OF UNSUITABLE MATERIAL PRIOR TO THE LIMESTONE COMPOST DRAIN PLACEMENT, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.

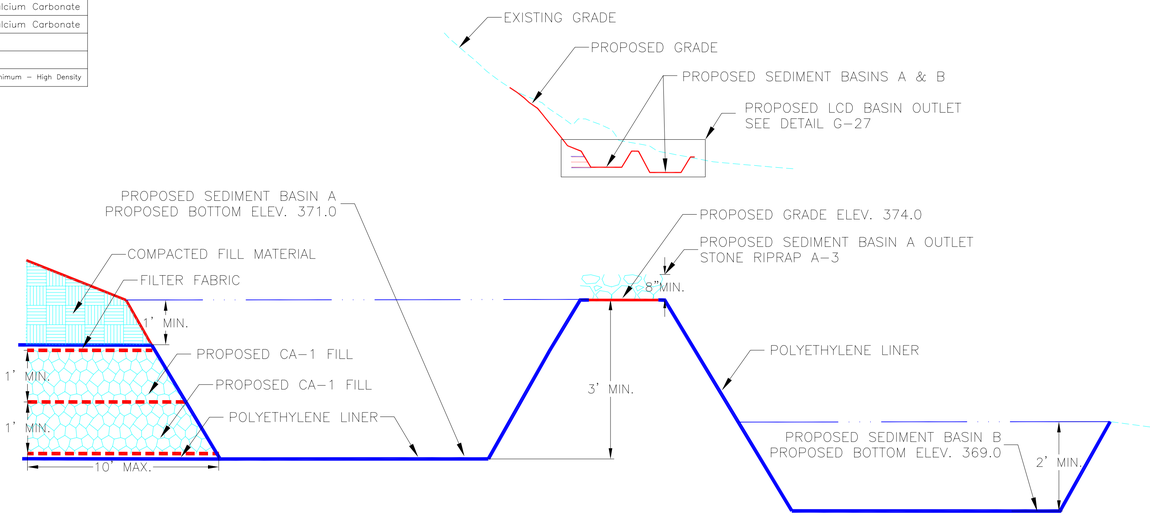
3. DURING THE CONSTRUCTION OF THE LIME COMPOST DRAIN, EXTREME CAUTION SHALL BE UTILIZED WHEN EXCAVATING AT THE TOE OF THE HIGHWALL, TO AVOID ANY POTENTIAL MATERIAL SLIDES, WHEN PREPARING THE HIGHWALL FACE AND PIT FLOOR FOR LIME COMPOST DRAIN PLACEMENT. MATERIAL SLIDE EXCAVATION SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION. THE PROPOSED LIME COMPOST DRAIN ALIGNMENT AND GRADE SHOWN ON THE PLANS ARE APPROXIMATE. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE ALIGNMENT AND GRADE TO MATCH THE SITE CONDITIONS.

4. COMPOST/CA–6 LAYER SHALL CONSIST OF A 50‰ MIXTURE, BY VOLUME. MIXING OF THESE MATERIALS SHALL BE DONE ON SITE, AND TO THE SATISFACTION OF THE ENGINEER.

5. THE CA–6/COMPOST LAYER SHALL CEASE AT A MAXIMUM DISTANCE OF 10 FEET FROM THE PROPOSED DRAIN OUTLETS. FROM THE POINT WHERE THE CA–6/COMPOST LAYER STOPS, THE LIMESTONE COMPOST DRAIN TRENCH SHALL BE FILLED WITH CA–1 TO THE PROPOSED OUTLETS.

6. THE LIMESTONE COMPOST DRAIN SHALL AT ALL TIMES BE COVERED BY A MINIMUM OF 4 FEET OF COMPACTED FILL MATERIAL. THIS MATERIAL SHALL BE COMPACTED ACCORDING TO SECTION 205 OF THE SPECIAL PROVISIONS.

7. THE LIMESTONE COMPOST DRAIN FLOW LINE MUST HAVE A SLIGHT FALL TOWARD THE PROPOSED OUTLETS, TO THE SATISFACTION OF THE ENGINEER.



LIMESTONE COMPOST BASIN OUTLET SYSTEM

DETAIL G–27, TYPICAL PROFILE, NOT TO SCALE

State of Illinois
Department of Natural Resources

Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

Drawn By: OMA
Date: 09-18-21
Checked By:

Detail Sheet

Sheet 27 of 28

NOTES:

TREE PLANTING AND CARE SHALL BE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS, SECTION 253, PLANTING WOODY PLANTS. SEE PROPOSED TREE PLANTING AREA FOR ACER RUBRUM (RED MAPLE) 2" CALIPER, BALLED & BURLAPPED (30 EACH), QUERCUS ALBA (WHITE OAK) 2" CALIPER, BALLED & BURLAPPED (25 EACH) AND QUERCUS MACROCARPA (BUR OAK) 2" CALIPER, BALLED & BURLAPPED (25 EACH). EXACT TREE PLANTING LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLANTING. SEE RECOMMENDED SPACING OF 25 FEET MINIMUM, ROWS STAGGERED PATTERN.

CP#1001

GRND BASE

CP#1002

SW 1/4 of SW 1/4 of SECTION 5, T10S, R7E

NW 1/4 of NW 1/4 of SECTION 8, T10S, R7E

SW 1/4 of NW 1/4 of SECTION 8, T10S, R7E

NW 1/4 of SW 1/4 of SECTION 8, T10S, R7E

STA. 22+00
N:366246
E:946240

STA. 0+00
N:364046
E:946240

BASELINE

SPECIAL EXCELSIOR BLANKET
463'L X 8'W (412 SQ YD)

PERIMETER EROSION BARRIER
SILT FENCE (592 FEET)

SPECIAL EXCELSIOR BLANKET
180'L X 8'W (160 SQ YD)

SPECIAL EXCELSIOR BLANKET
866'L X 8'W (770 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,034'L X 8'W (919 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,244'L X 8'W (1,106 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,233'L X 8'W (1,096 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,260'L X 8'W (1,120 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,211'L X 8'W (1,076 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,180'L X 8'W (1,049 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,168'L X 8'W (1,038 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,132'L X 8'W (1,006 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,147'L X 8'W (1,020 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,196'L X 8'W (1,063 SQ YD)

SPECIAL EXCELSIOR BLANKET
2,429'L X 8'W (2,159 SQ YD)

SPECIAL EXCELSIOR BLANKET
2,240'L X 8'W (1,991 SQ YD)

PERIMETER EROSION BARRIER
SILT FENCE (1,131 FEET)

SPECIAL EXCELSIOR BLANKET
217'L X 8'W (193 SQ YD)

SPECIAL EXCELSIOR BLANKET
289'L X 8'W (257 SQ YD)

PROPOSED TREE PLANTING AREA, 2" CALIPER
BALLED & BURLAPPED
ACER RUBRUM (RED MAPLE), 30 EACH,
QUERCUS ALBA (WHITE OAK), 25 EACH,
QUERCUS MACROCARPA (BUR OAK), 25 EACH,
SEE NOTE #1, SHEET #28

SPECIAL EXCELSIOR BLANKET
1,090'L X 8'W (969 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,012'L X 8'W (890 SQ YD)

PERIMETER EROSION BARRIER
SILT FENCE (365 FEET)

SPECIAL EXCELSIOR BLANKET
477'L X 8'W (424 SQ YD)

SPECIAL EXCELSIOR BLANKET
668'L X 8'W (594 SQ YD)

SPECIAL EXCELSIOR BLANKET
981'L X 8'W (872 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,212'L X 8'W (1,077 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,183'L X 8'W (1,052 SQ YD)

PERIMETER EROSION BARRIER
SILT FENCE (434 FEET)

SPECIAL EXCELSIOR BLANKET
943'L X 8'W (838 SQ YD)

PERIMETER EROSION BARRIER
SILT FENCE (1,155 FEET)

PERIMETER EROSION BARRIER
SILT FENCE (1,129 FEET)

SPECIAL EXCELSIOR BLANKET
31'L X 8'W (28 SQ YD)

SPECIAL EXCELSIOR BLANKET
72'L X 8'W (64 SQ YD)

SPECIAL EXCELSIOR BLANKET
100'L X 8'W (89 SQ YD)

SPECIAL EXCELSIOR BLANKET
133'L X 8'W (118 SQ YD)

SPECIAL EXCELSIOR BLANKET
207'L X 8'W (184 SQ YD)

SPECIAL EXCELSIOR BLANKET
215'L X 8'W (191 SQ YD)

SPECIAL EXCELSIOR BLANKET
238'L X 8'W (212 SQ YD)

SPECIAL EXCELSIOR BLANKET
230'L X 8'W (204 SQ YD)

PERIMETER EROSION BARRIER
SILT FENCE (224 FEET)

PROPERTY LINE LIMITS
AREA TO REMAIN UNDISTURBED

SPECIAL EXCELSIOR BLANKET
231'L X 8'W (205 SQ YD)

SPECIAL EXCELSIOR BLANKET
288'L X 8'W (256 SQ YD)

SPECIAL EXCELSIOR BLANKET
200'L X 8'W (178 SQ YD)

SPECIAL EXCELSIOR BLANKET
104'L X 8'W (92 SQ YD)

SPECIAL EXCELSIOR BLANKET
54'L X 8'W (48 SQ YD)

SPECIAL EXCELSIOR BLANKET
67'L X 8'W (60 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,109'L X 8'W (986 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,126'L X 8'W (1,001 SQ YD)

SPECIAL EXCELSIOR BLANKET
1.185'L X 8'W (1,053 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,257'L X 8'W (1,117 SQ YD)

SPECIAL EXCELSIOR BLANKET
1,296'L X 8'W (1,152 SQ YD)

CP#1003

CP#1004

STONEFACE RD.
(OIL & CHIP)

N

0' 100' 200'

SCALE IN FEET

SHEET LAYOUT

6/9

5/8

4/7

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- TREELINE
- WATER WAY
- SECTION LINE
- OHP — OVERHEAD POWER LINE
- FENCE LINE
- CONTROL POINT

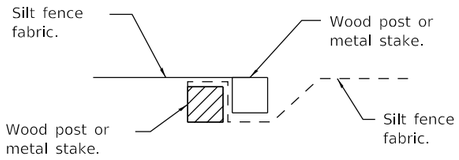
Final Grading Plan
Special Excelsior Blanket
Tree Planting Layout
Sheet 28 of 28

Drawn By: OMA Date: 09-13-21

Checked By:

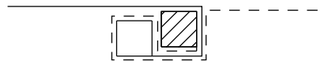
Beecher Williams No. 1
Reclamation Project
AML-GSIE-2007A
Saline County

State of Illinois
Department of Natural Resources



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as swown.

STEP 1

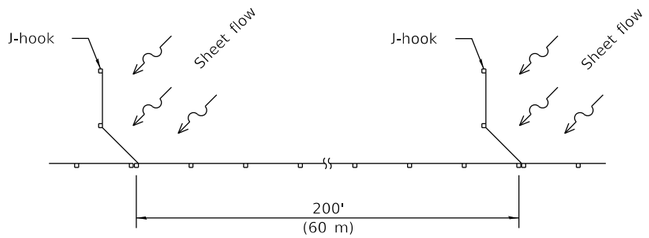


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

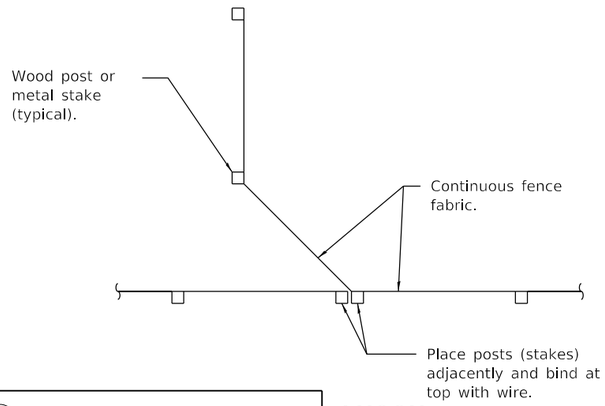
STEP 2

ATTACHING TWO SILT FILTER FENCES

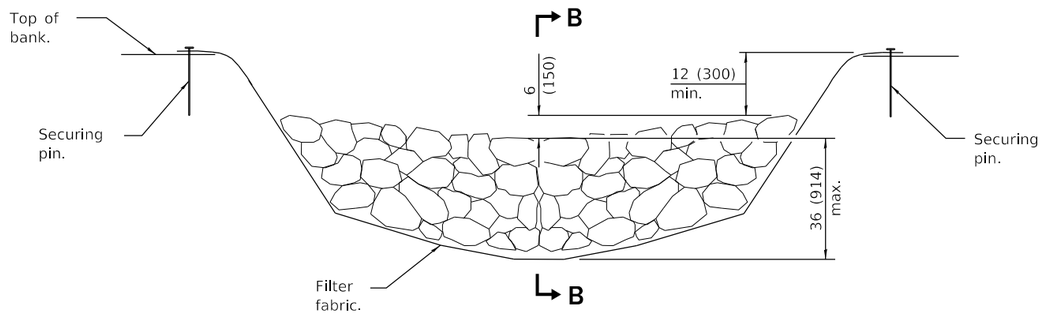
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

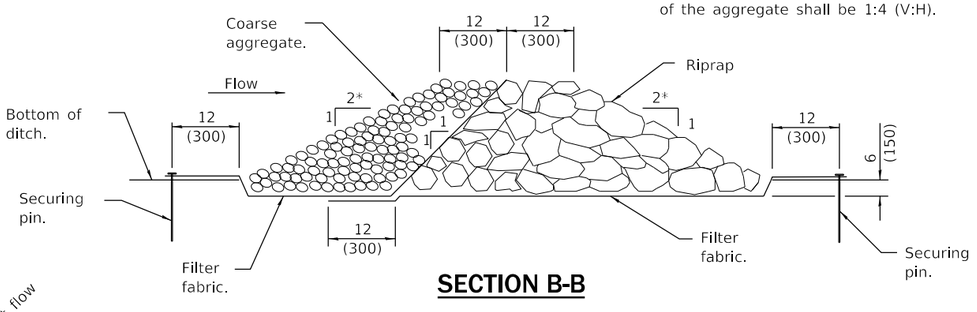


J-HOOK



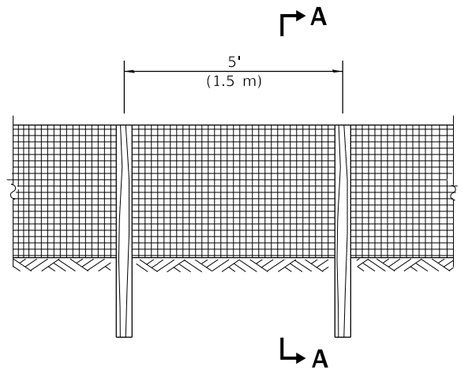
ELEVATION

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



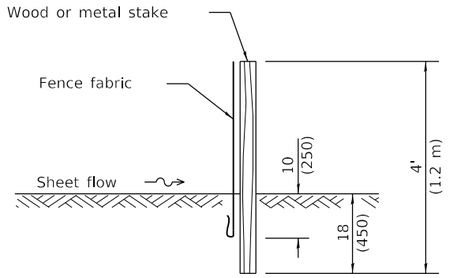
SECTION B-B

AGGREGATE DITCH CHECK

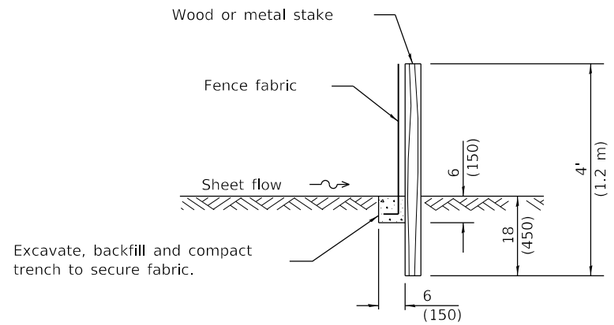


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A-A

GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

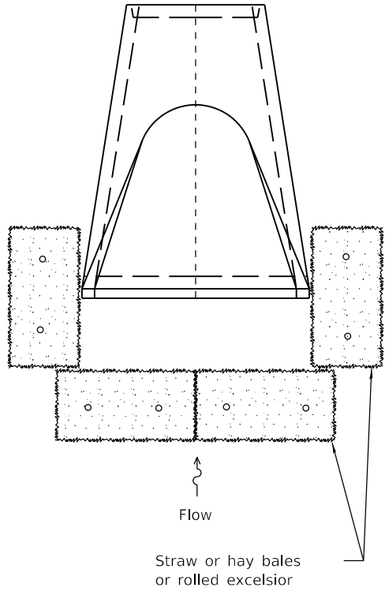
ISSUED 1-1-97

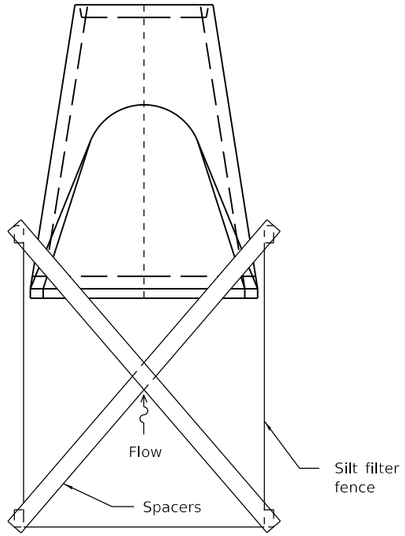
DATE	REVISIONS
1-1-13	Corrected notation for
	flowline (℄) on SEDIMENT
	BASIN ELEVATION.
1-1-12	Omitted hay/straw perimeter
	barrier. Added SLICE METHOD
	to SECTION A-A.

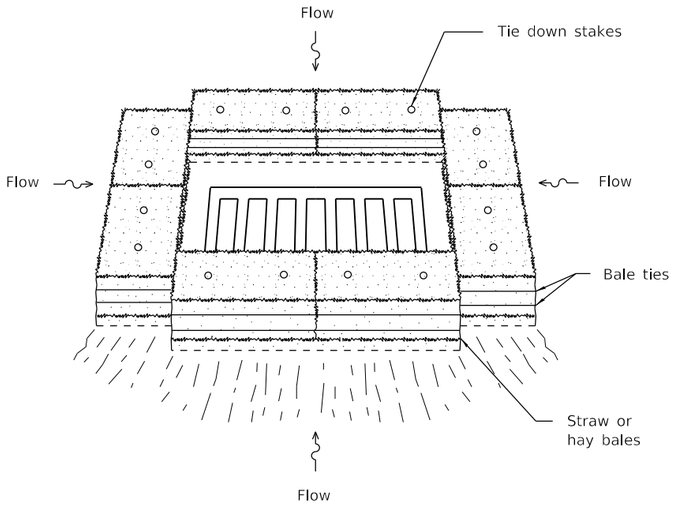
TEMPORARY EROSION CONTROL SYSTEMS

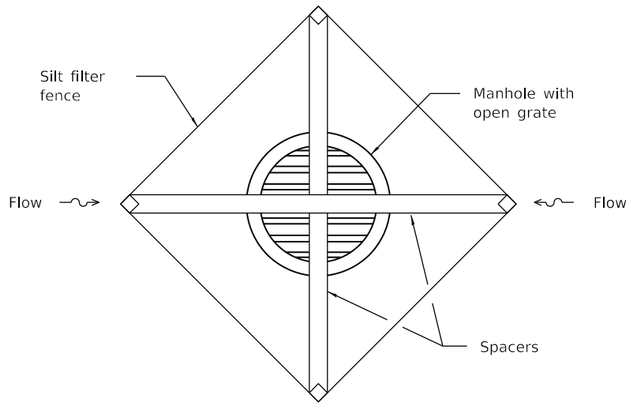
(Sheet 1 of 2)

STANDARD 280001-07

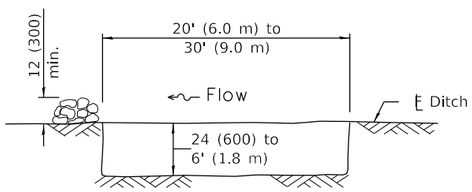






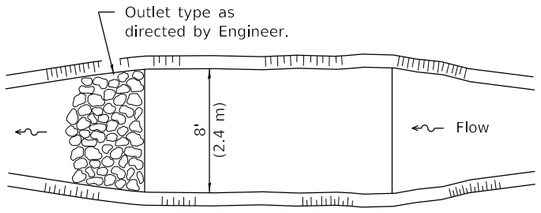


INLET AND PIPE PROTECTION



The performance of the basin
will improve if put into a series.

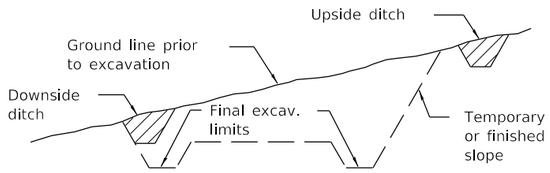
ELEVATION



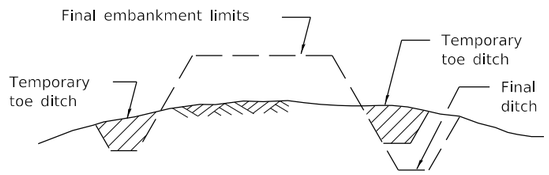
The long dimension should be parallel with the
direction of the flow. Accumulated silt shall be
removed anytime the basins become 75% filled.

PLAN

SEDIMENT BASIN



TYPICAL CUT CROSS-SECTION



TYPICAL FILL CROSS-SECTION

**TEMPORARY DITCHES FOR
CUT & FILL SECTIONS**

Illinois Department of Transportation

PASSED January 1, 2013
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2013
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 2 of 2)

STANDARD 280001-07