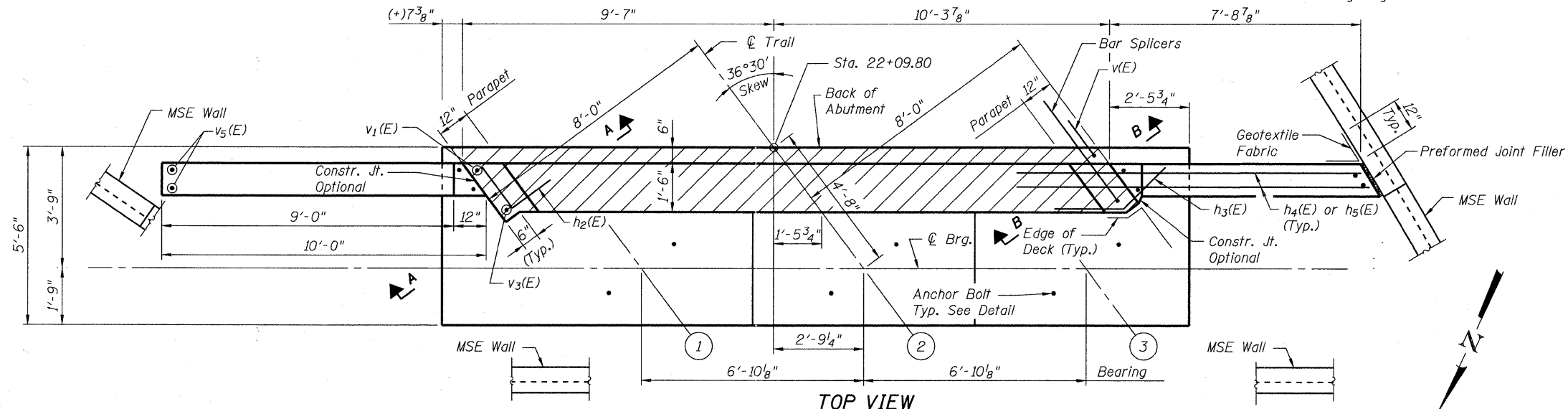
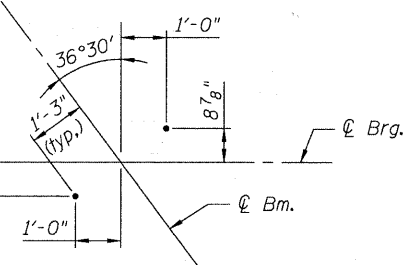


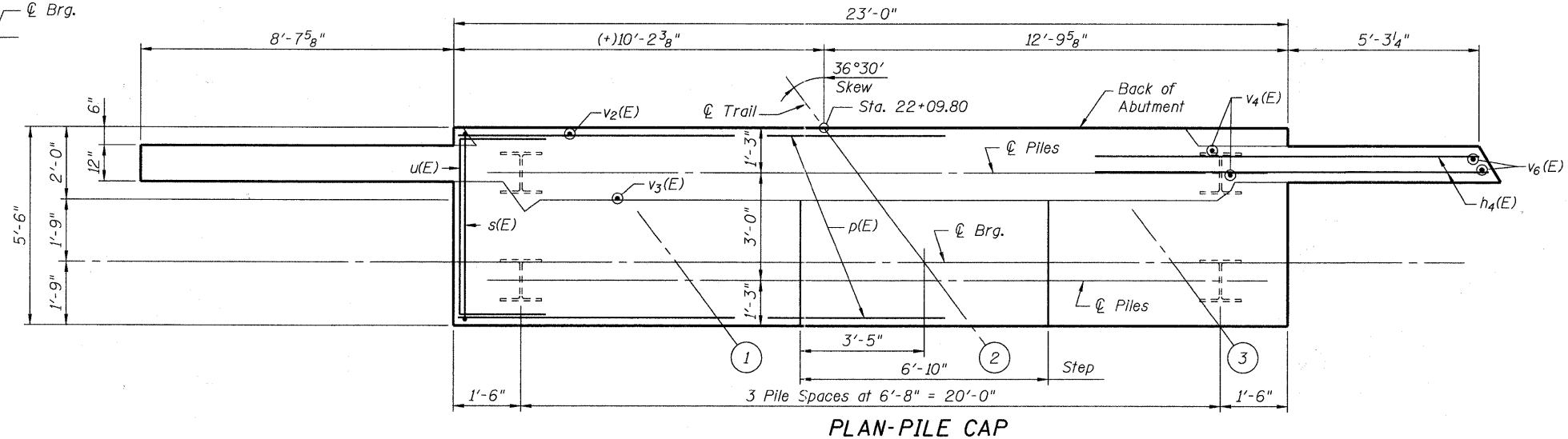
**ELEVATION**  
Looking East



**TOP VIEW**



**ANCHOR BOLT LOCATION**



**PLAN-PILE CAP**

**Notes:**  
 Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.  
 Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.  
 Contractor Shall coordinate abutment construction with construction of MSE retaining wall.  
 For MSE wall see sheet 28 of 37.

**PILE DATA**

Type: HP 12x63 with pile shoes  
 Nominal Required Bearing: 360 kips  
 Factored Resistance Available: 180 kips  
 Est. Length: 67 ft.  
 No. Production Piles: 7  
 No. Test Piles: 1

FILE NAME = s:\756-004\lombard - gwt bridges phase 1\cadd sheets\structural\IPRR\0223122-021-EAST ABUTMENT.dgn

**Bollinger, Lach & Associates, Inc.**  
 ITASCA, ILLINOIS

USER NAME = gonzalo  
 PLOT SCALE =  
 PLOT DATE = 7/26/2011

DESIGNED SRT  
 CHECKED JJI  
 DRAWN GM  
 CHECKED JJI

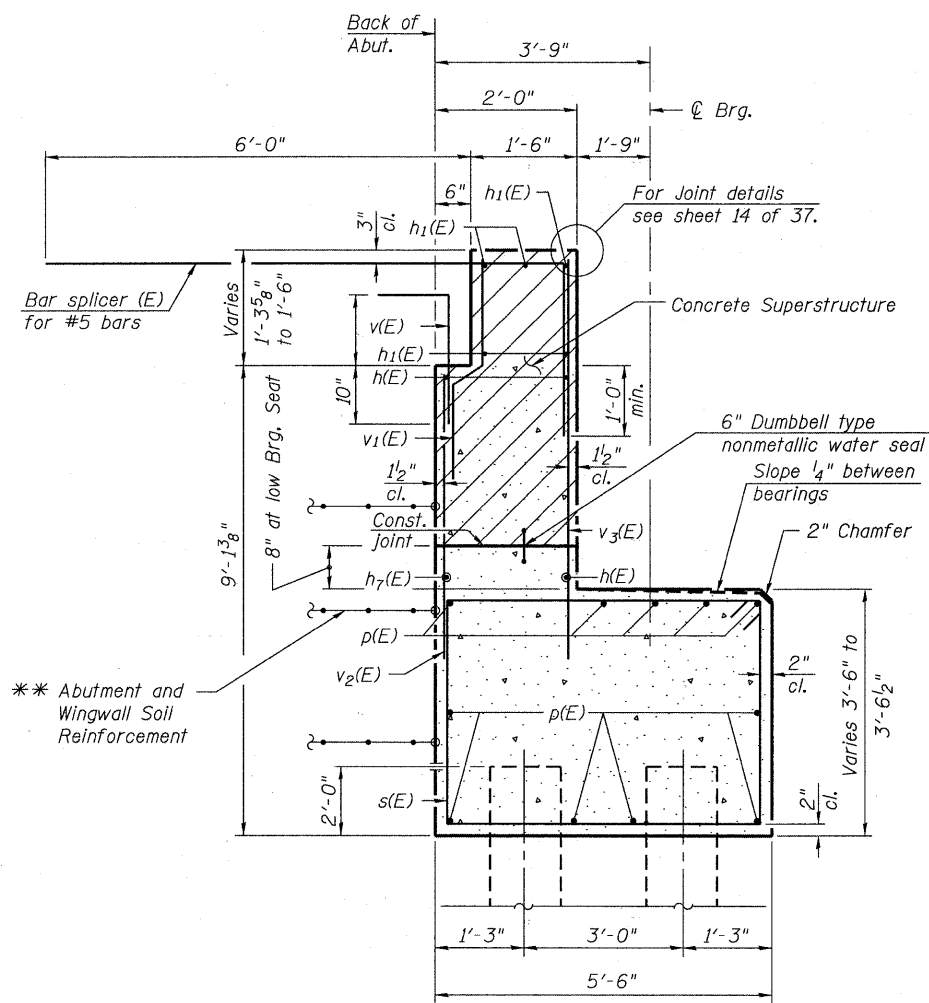
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**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 UNION PACIFIC RAILROAD**

**EAST ABUTMENT  
 STRUCTURE NO. 022-3122**  
 SHEET NO. 21 OF 37 SHEETS

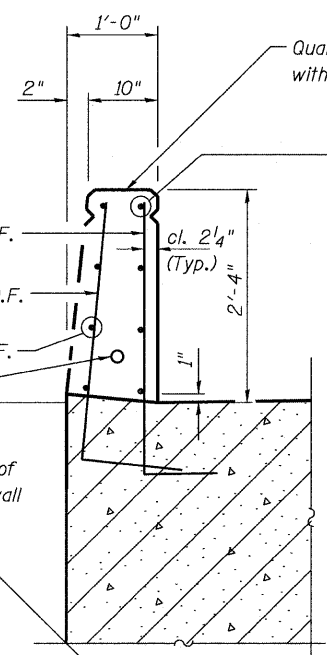
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	101
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	

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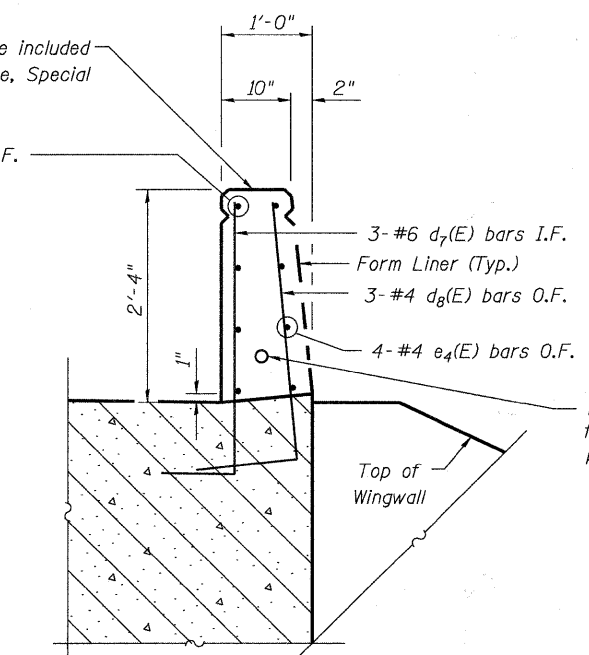


**SEC. THRU ABUT.**

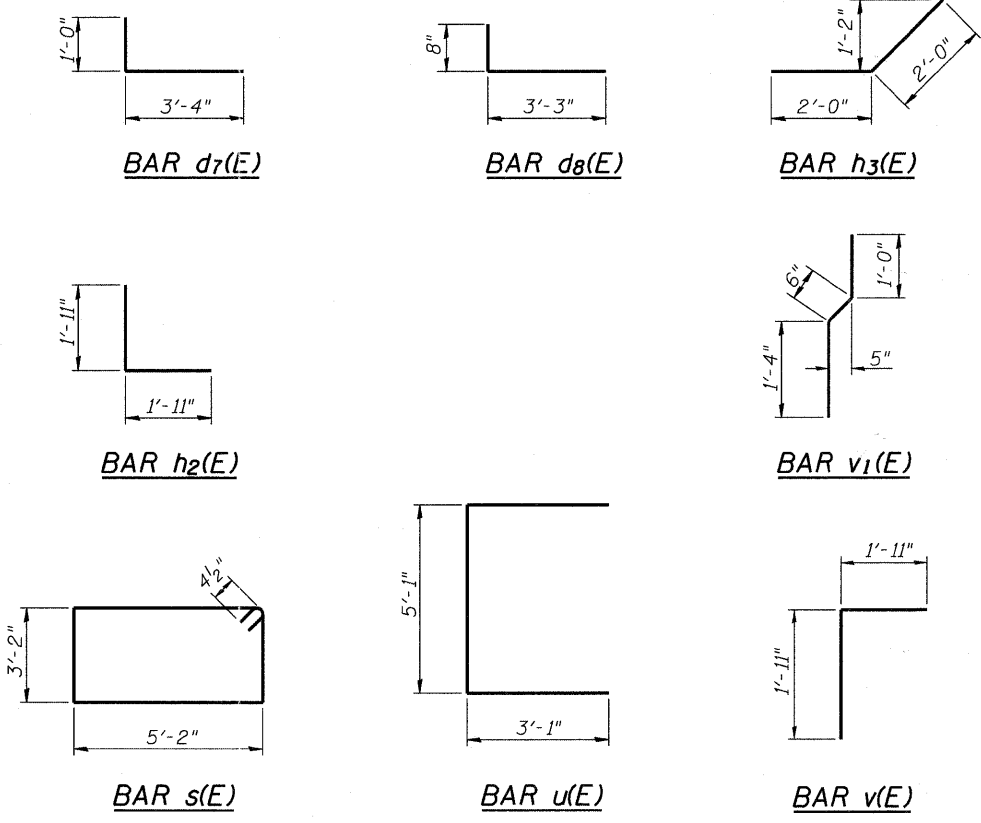
\*\* The M.S.E. wall supplier shall design the abutment and wingwall soil reinforcement to resist a horizontal force of 2 kips/ft. Contractor shall coordinate abutment construction with construction of MSE retaining wall.



**SECTION A-A**  
(Northwest backwall parapet)



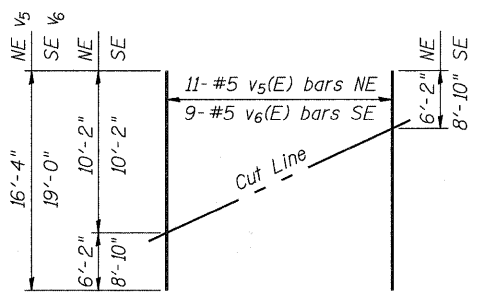
**SECTION B-B**  
(Southwest backwall parapet)



**EAST ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d <sub>7</sub> (E)	6	#6	4'-4"	[Shape]
d <sub>8</sub> (E)	6	#4	3'-11"	[Shape]
e <sub>2</sub> (E)	4	#4	2'-2"	[Shape]
e <sub>3</sub> (E)	8	#4	1'-7"	[Shape]
e <sub>4</sub> (E)	4	#4	1'-3"	[Shape]
h(E)	6	#5	19'-0"	[Shape]
h <sub>1</sub> (E)	5	#6	19'-3"	[Shape]
h <sub>2</sub> (E)	8	#5	3'-10"	[Shape]
h <sub>3</sub> (E)	8	#5	4'-0"	[Shape]
h <sub>4</sub> (E)	36	#7	12'-9"	[Shape]
h <sub>5</sub> (E)	12	#5	12'-6"	[Shape]
h <sub>7</sub> (E)	6	#5	19'-7"	[Shape]
p(E)	11	#7	22'-8"	[Shape]
s(E)	40	#4	17'-5"	[Shape]
u(E)	8	#6	11'-3"	[Shape]
v(E)	21	#5	3'-10"	[Shape]
v <sub>1</sub> (E)	21	#4	2'-10"	[Shape]
v <sub>2</sub> (E)	24	#5	7'-11"	[Shape]
v <sub>3</sub> (E)	21	#5	9'-5"	[Shape]
v <sub>5</sub> (E)	11	#5	16'-4"	[Shape]
v <sub>6</sub> (E)	9	#5	19'-0"	[Shape]
Concrete Structures		Cu. Yd.	22.5	
Concrete Superstructure		Cu. Yd.	9.8	
Concrete Superstructure, Special		Cu. Yd.	0.3	
Reinforcement Bars, Epoxy Coated		Pound	3,630	
Furnishing Steel Piles, HP 12x63		Foot	469	
Pile Shoes		Each	8	
Bar Splicers		Each	21	
Driving Piles		Foot	469	
Test Pile, HP 12x63		Each	1	
Concrete Sealer		Sq. Ft.	290	
Anti-Graffiti Protection System		Sq. Ft.	189	
Form Liner Textured Surface, Special		Sq. Ft.	102	

For details of Bar Splicers, see sheet 25 of 37.  
For details of piles, see sheet 24 of 37.



**FIELD CUTTING DIAGRAM**

Order v<sub>5</sub>(E) and v<sub>6</sub>(E) bars full length. Cut as shown and use remainder of bars in opposite face.

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USER NAME = gonzo
PLOT SCALE =
PLOT DATE = 7/26/2011

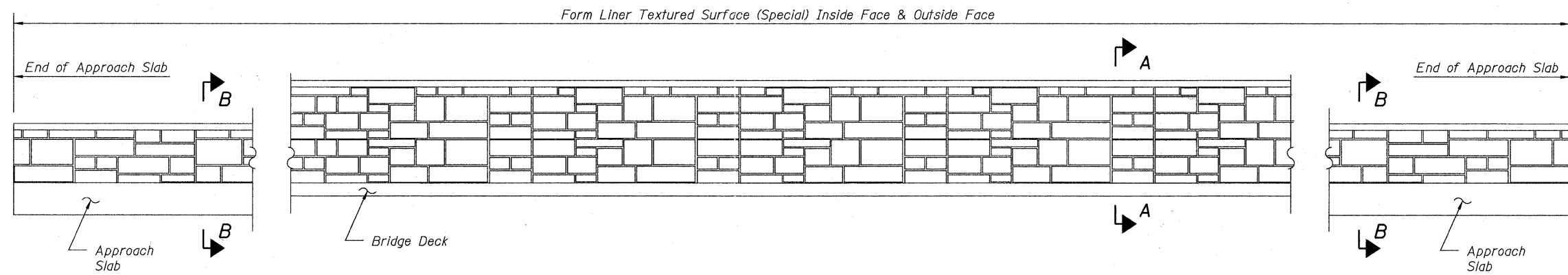
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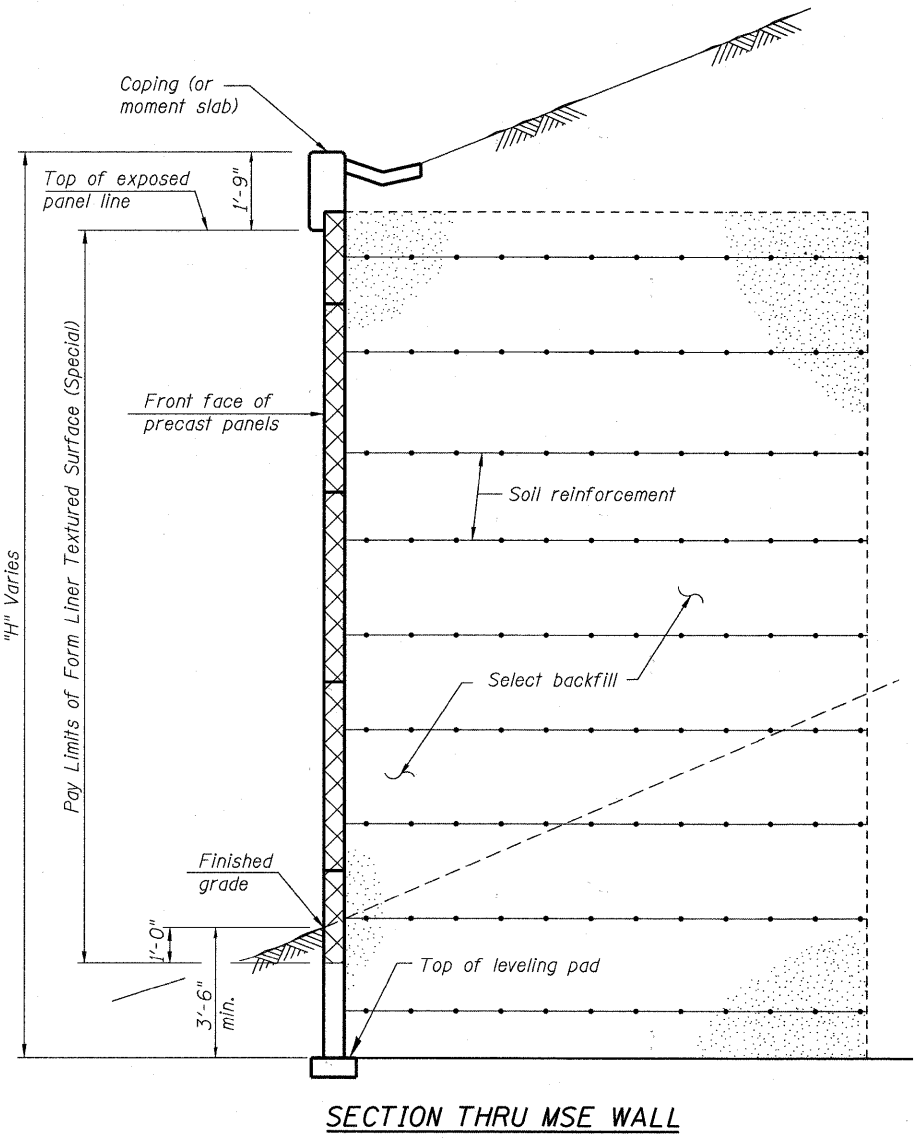
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD**

**EAST ABUTMENT DETAILS  
STRUCTURE NO. 022-3122**  
SHEET NO. 22 OF 37 SHEETS

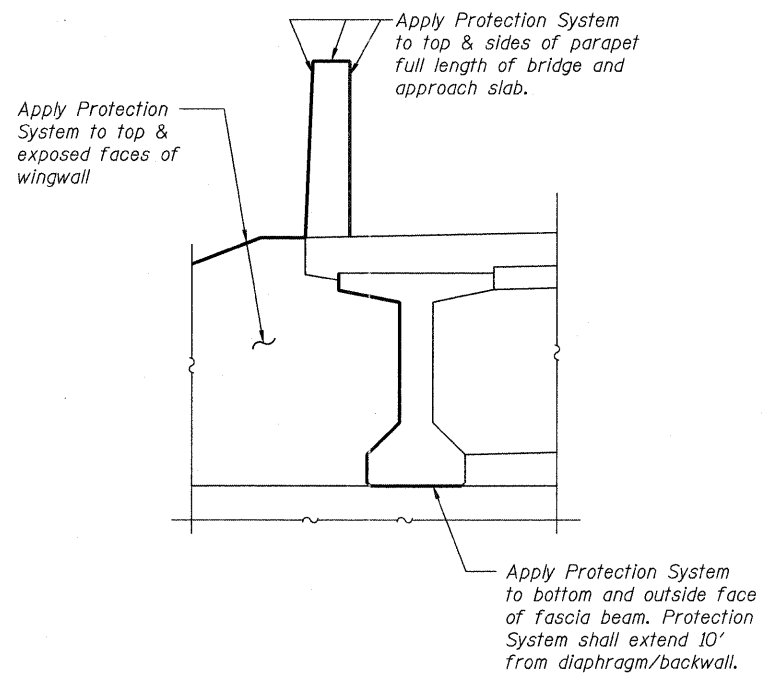
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	102
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				



**PARAPET ELEVATION**  
(Outside Face Shown, Typ. each Parapet)

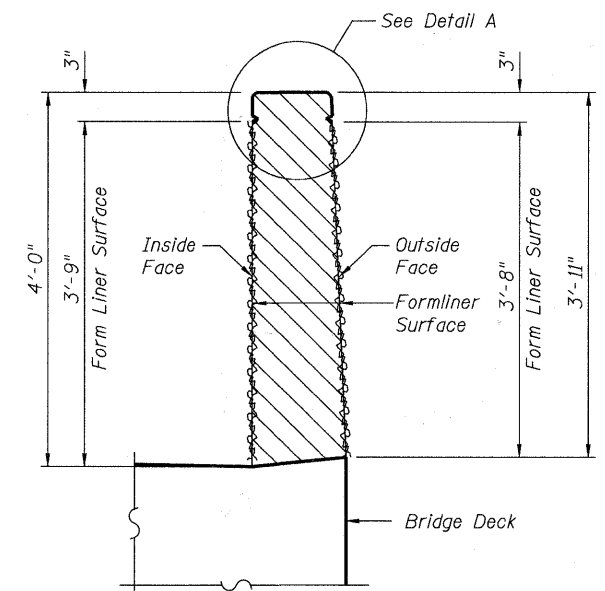


**SECTION THRU MSE WALL**

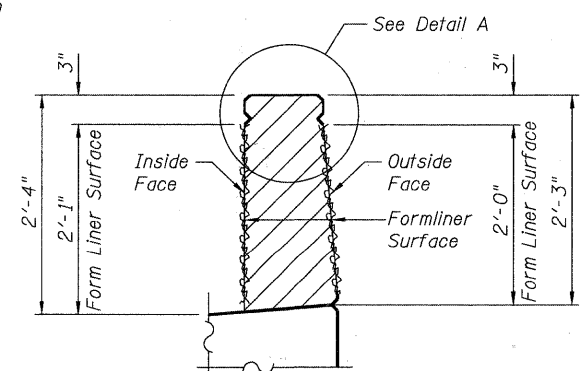


**ANTI-GRAFFITI PROTECTION SYSTEM**

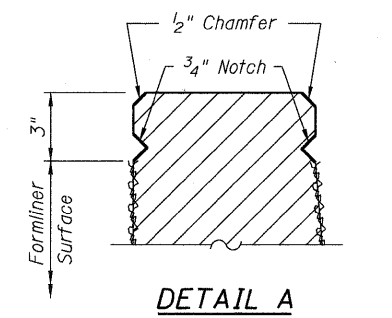
Integrally Colored Concrete, paid for as Concrete Superstructure, Special



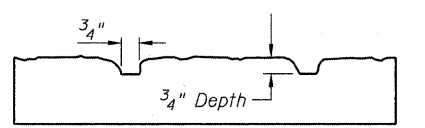
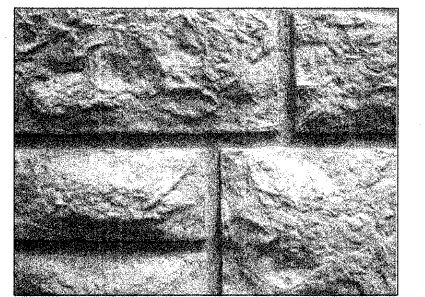
**SECTION A-A**  
(Bridge Parapet Formliner)



**SECTION B-B**  
(Off-Bridge Parapet Formliner)



**DETAIL A**



**FORM LINER TEXTURE DETAIL**  
See Special Provisions

Note:  
Form Liner Textured Surface (Special) to be used on inside and outside faces of Parapet & on front face of precast panels. Utilize Fitzgerald Formliners form liner pattern #17027 or equivalent.  
The depth of relief of the Form Liner Textured Surface is limited to 3/4". The relief should not compromise the reinforcement clearance in the Parapet.

FILE NAME = s:\756-004\_Lombard - get bridges\_phase 1\wood sheets\structural\IPRR\0223122-023-Arch\_Treatment.dgn

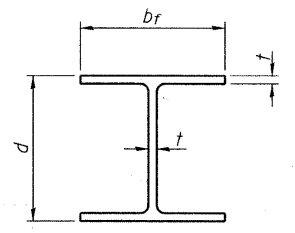
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USER NAME = gonzalo	DESIGNED SRT	REVISD -
PLLOT SCALE =	CHECKED JJI	REVISD -
PLLOT DATE = 7/26/2011	DRAWN GM	REVISD -
	CHECKED JJI	REVISD -

**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
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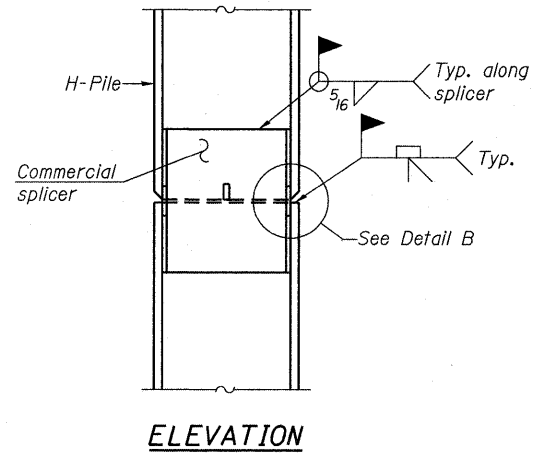
**ARCHITECTURAL TREATMENT  
STRUCTURE NUMBER 022-3122**  
SHEET NO. 23 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

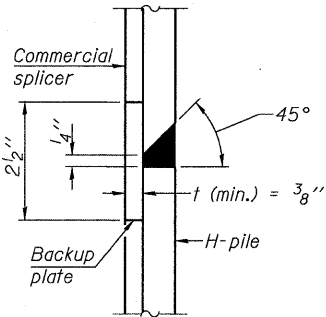


**STEEL PILE TABLE**

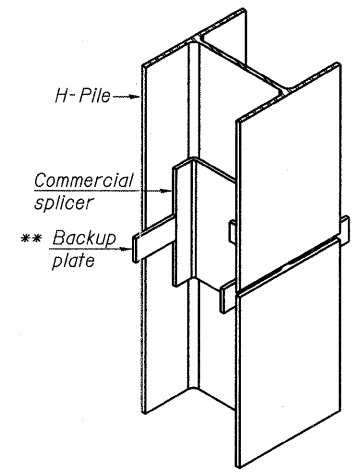
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

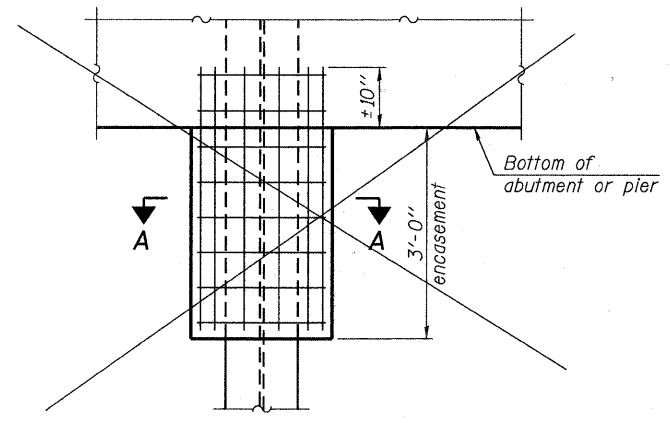


**DETAIL "B"**



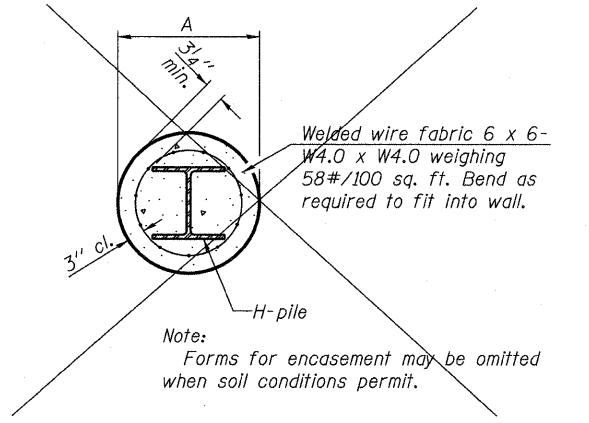
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**

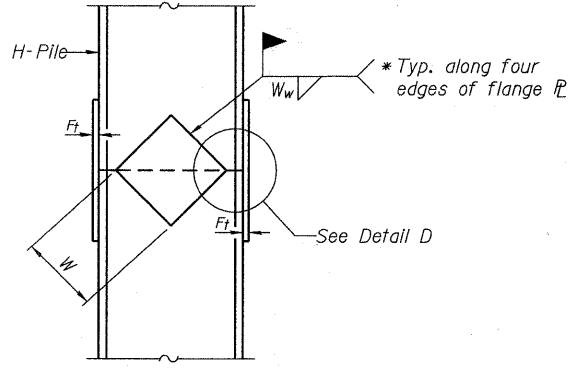


**ELEVATION**

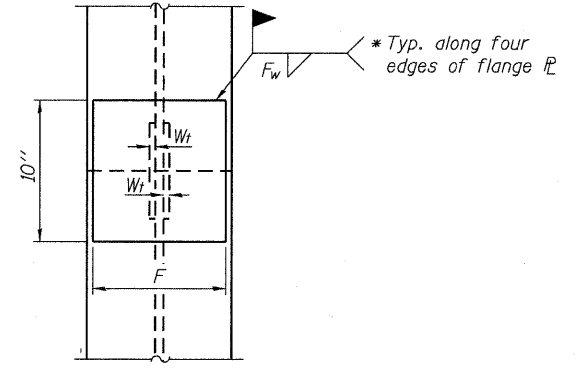
**PILE ENCASEMENT**



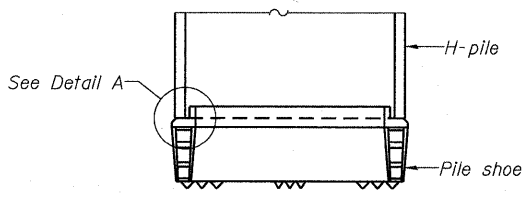
**SECTION A-A**



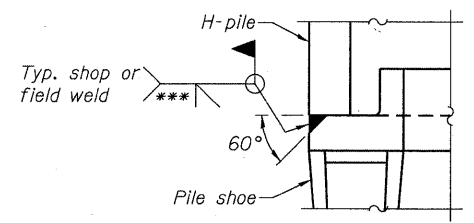
**ELEVATION**



**END VIEW**

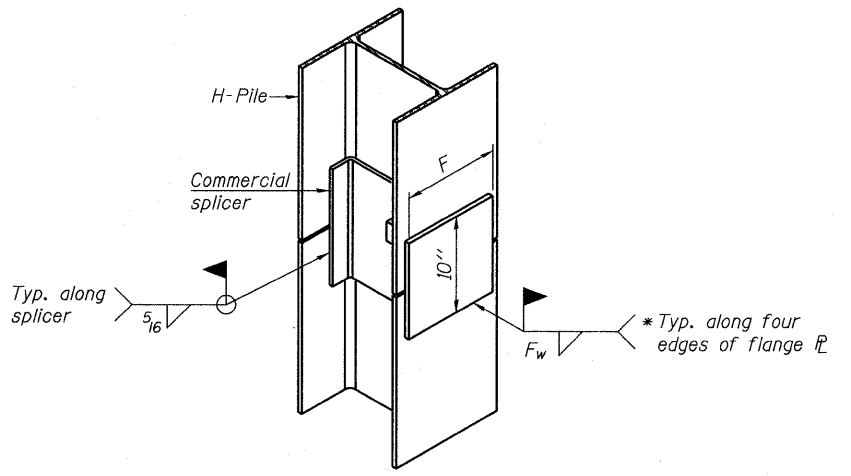


**ELEVATION**

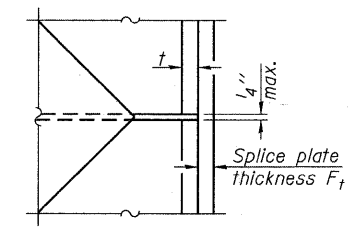


**DETAIL A**

**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = s:\756-004\_tombard - g\* bridges phase 11\cadd sheets\structural\UPRR\0223122-024-HP\_PILE.dgn

F-HP

7-1-10

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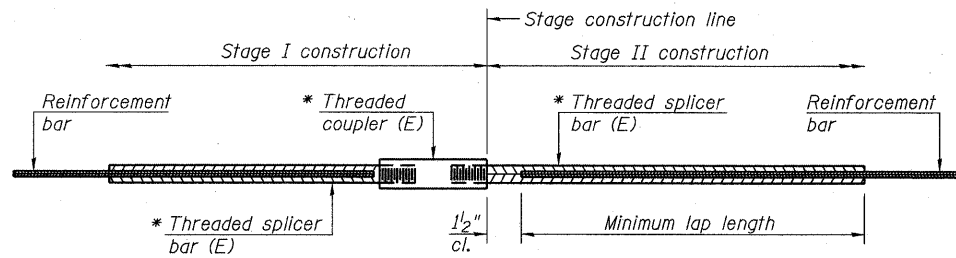
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PLOT DATE = 7/26/2011	DRAWN GM
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**HP PILE DETAILS  
STRUCTURE NO. 022-3122**  
SHEET NO. 24 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	104
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

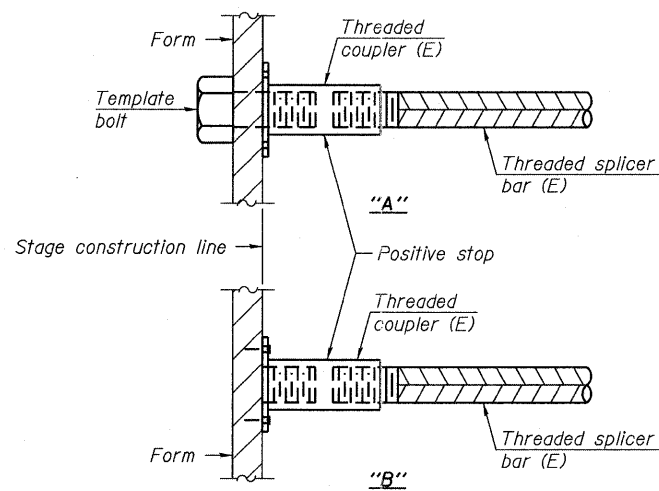
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

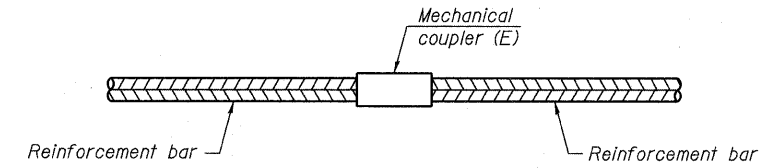
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



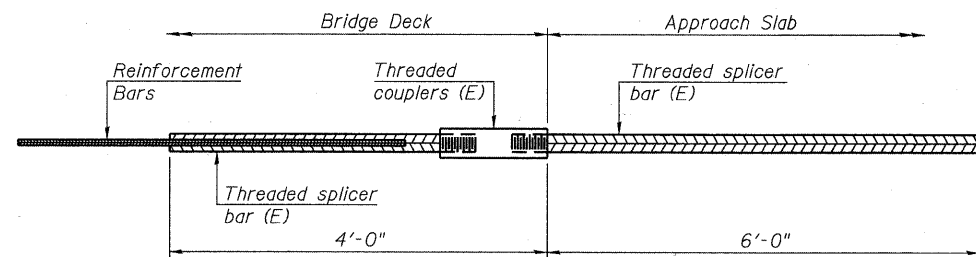
**INSTALLATION AND SETTING METHODS**

- "A" : Set bar splicer assembly by means of a template bolt.
- "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
- (E) : Indicates epoxy coating.



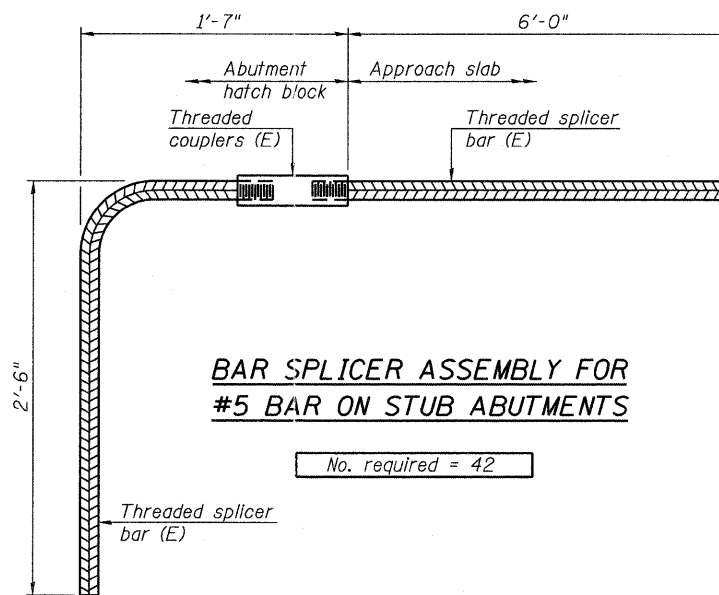
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 42

**NOTES**

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See special provision for Mechanical Splicers.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = s:\756-004\lombard - gnt bridges phase 1\ecad sheets\structural\IPRR\022322-025-Bar Splicer.dgn

BSD-1

7-1-10



USER NAME = gonzalo  
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 PLOT SCALE =  
 PLOT DATE = 7/26/2011

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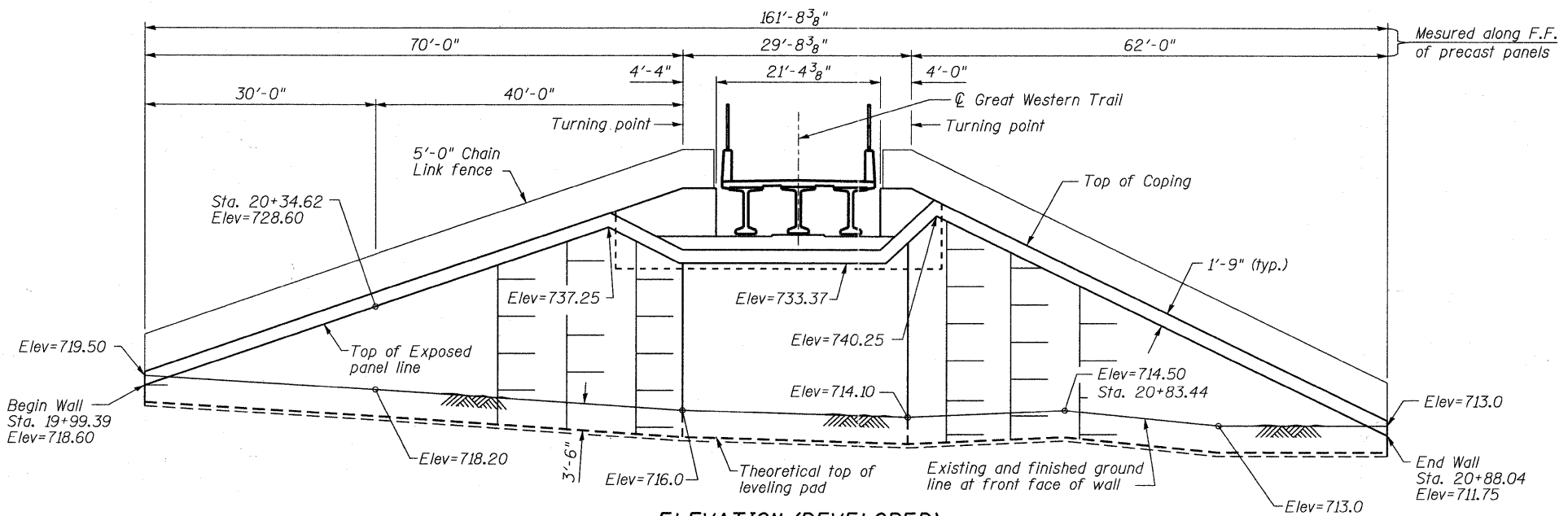
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 GREAT WESTERN TRAIL  
 UNION PACIFIC RAILROAD**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 022-3122**

SHEET NO. 25 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	105
			CONTRACT NO. 63568	
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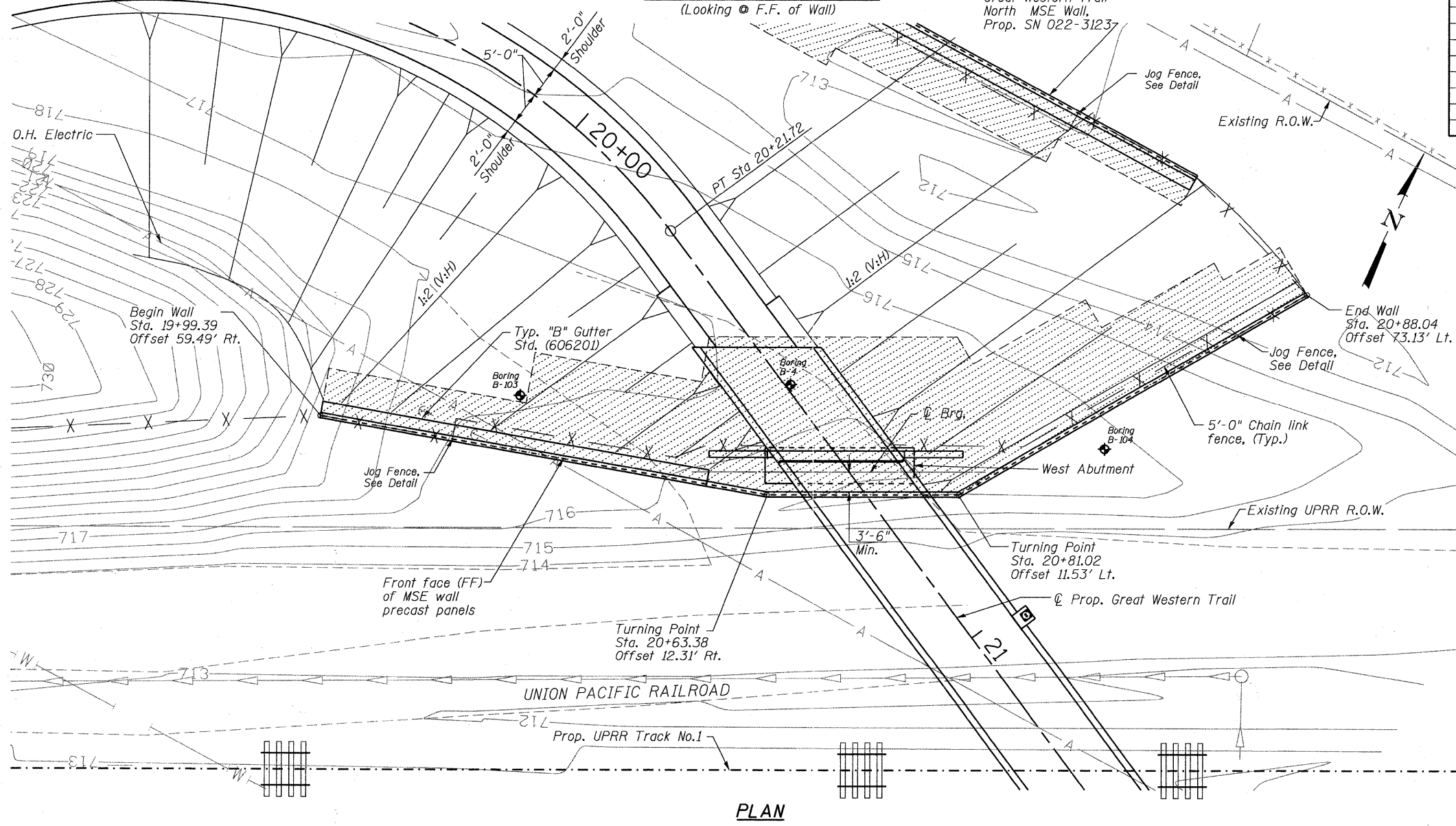


Note: Wall offsets are measured from the  $\odot$  Great Western Trail to the front face of precast panels.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	315
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,764
Anti-Graffiti Protection System	Sq. Ft.	2,341
Form Liner Textured Surface, Special	Sq. Ft.	2,341

**ELEVATION (DEVELOPED)**  
(Looking  $\odot$  F.F. of Wall)



- Notes:
1. See Special Provisions for Mechanically Stabilized Earth Retaining Wall for design and construction requirements.
  2. Cast-in-place concrete and reinforcing steel, epoxy coated, required for coping will be included in payment for Mechanically Stabilized Earth Retaining Wall, see Special Provisions.
  3. Mechanically Stabilized Earth retaining wall supplier to coordinate location and lengths of soil reinforcement with light pole, conduit, and unit duct locations shown on Lighting Plans to avoid conflicts. Any load transfer system required shall be detailed and shown on Mechanically Stabilized Earth retaining wall Shop Drawings.
  4. Sonotubes shall be installed by Contractor where light pole locations interfere with soil reinforcement.
  5. For Fence and Gutter limits and details, see Roadway Plans.
  6. Contractor shall coordinate MSE retaining wall construction with abutment construction.

Approximate Limit of Reinforced Soil Mass

**PLAN**

FILE NAME = s:\756-004\_lombard - gwt\_bridges phase 1\locid\_sheets\structural\UPRR\0223122-026-WEST ABUTMENT MSE WALL PLAN AND ELEVATION.dgn

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USER NAME = gonzalo  
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PLOT DATE = 7/26/2011

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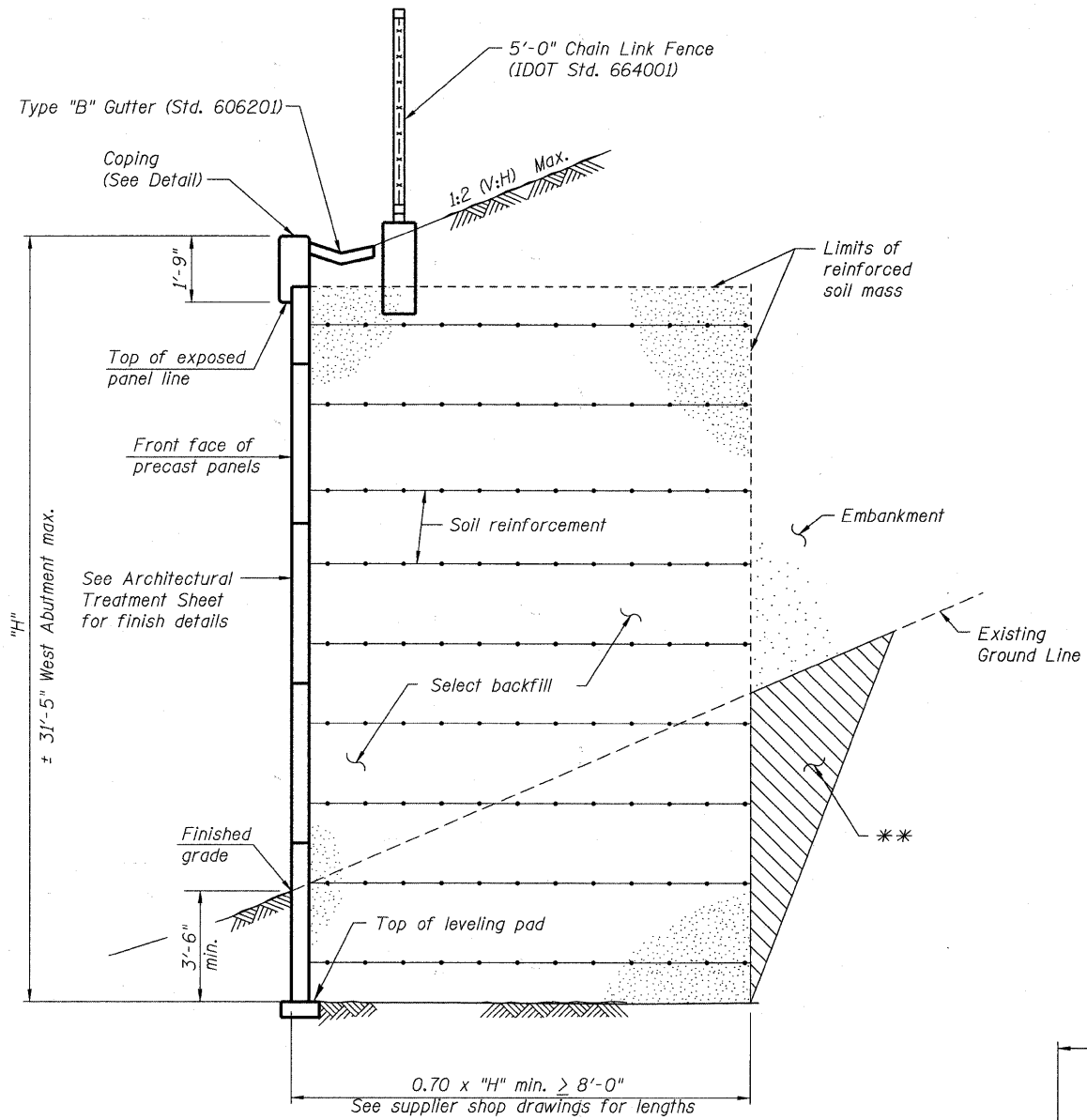
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GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD**

**WEST ABUTMENT MSE WALL PLAN AND ELEVATION  
STRUCTURE NUMBER 022-3122**

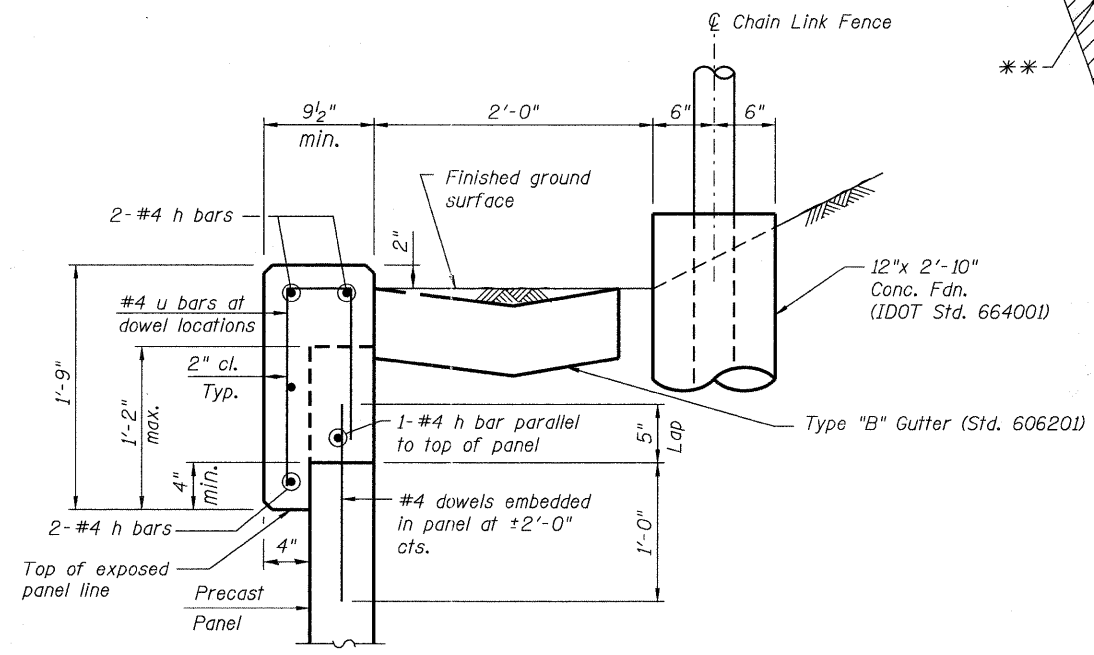
SHEET NO. 26 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	106
			CONTRACT NO. 63568	
[ILLINOIS] FED. AID PROJECT				



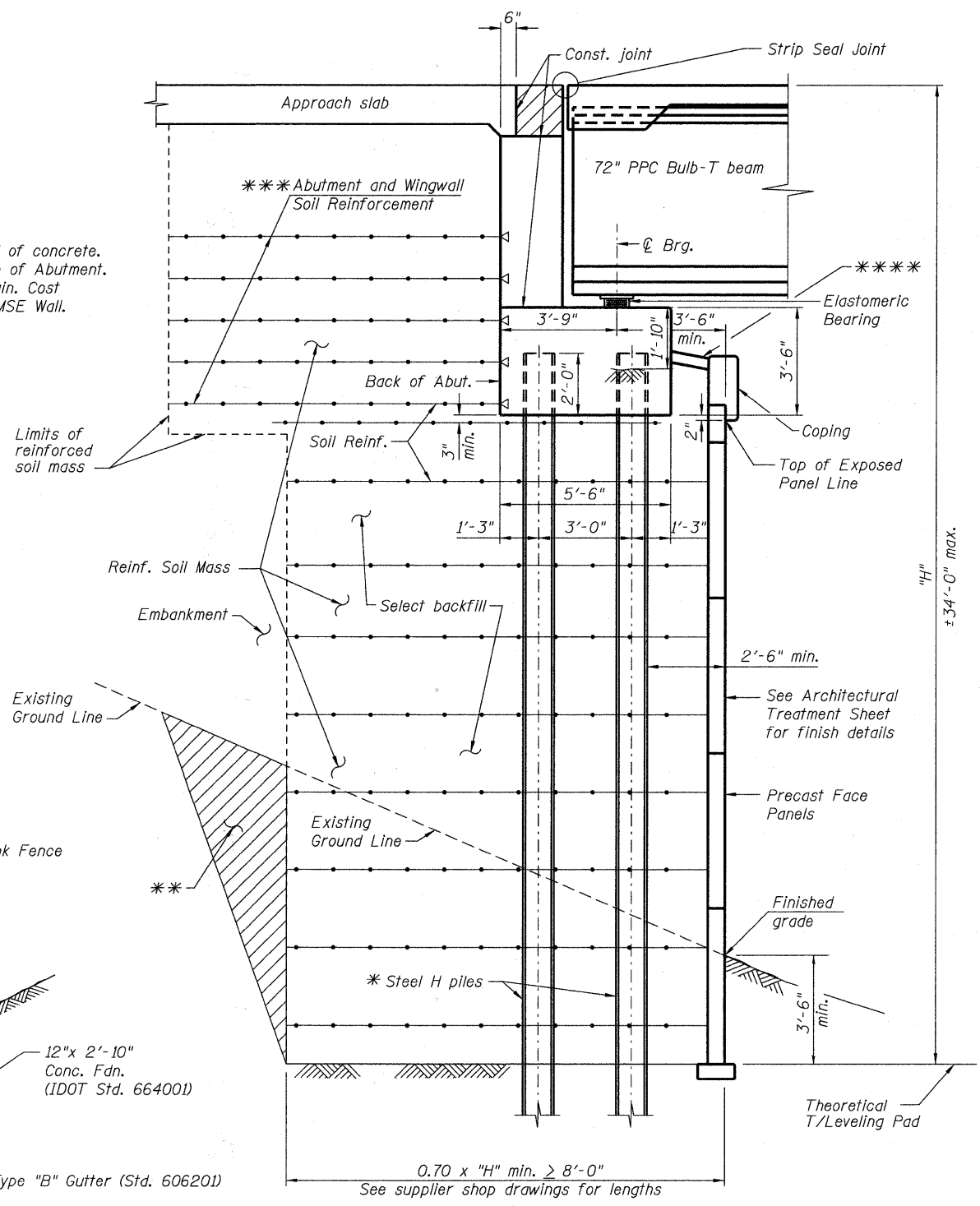
**TYP. SECTION THRU MSE WALL**

\*\* Backfill overexcavation w/same material as used for select fill



**SECTION THRU TOP OF MSE WALL**

\*\*\*\* Seal with 4" of concrete. P.J.F on face of Abutment. Slope to drain. Cost included in MSE Wall.



**SECTION THRU WEST ABUTMENT**

\* Piles shall be driven prior to placement of reinforced select fill and coated with bitumen coating from the bottom of the select fill to 1" above the base of the abutment. The cost of the bitumen coating shall be included with the cost of the Furnishing Piles.

\*\* Overexcavation beyond the limits of Structure Excavation. This area not measured for payment. Backfill overexcavation with same material as used for select fill.

\*\*\* The MSE Wall supplier shall design the abutment and wingwall soil reinforcement to resist a horizontal force of 2 kips/foot of abutment. Contractor shall coordinate abutment construction with construction of MSE Retaining Wall.

FILE NAME = w:\756-004\_lombard - gwt\_bridges\_phase 1\load\_sheets\structural\IPRR\0223122-027-WEST ABUTMENT MSE WALL DETAILS.dgn

**Bollinger, Lach & Associates, Inc.**  
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PLOT DATE = 7/26/2011	DRAWN GM	REVISD -
	CHECKED JJI	REVISD -

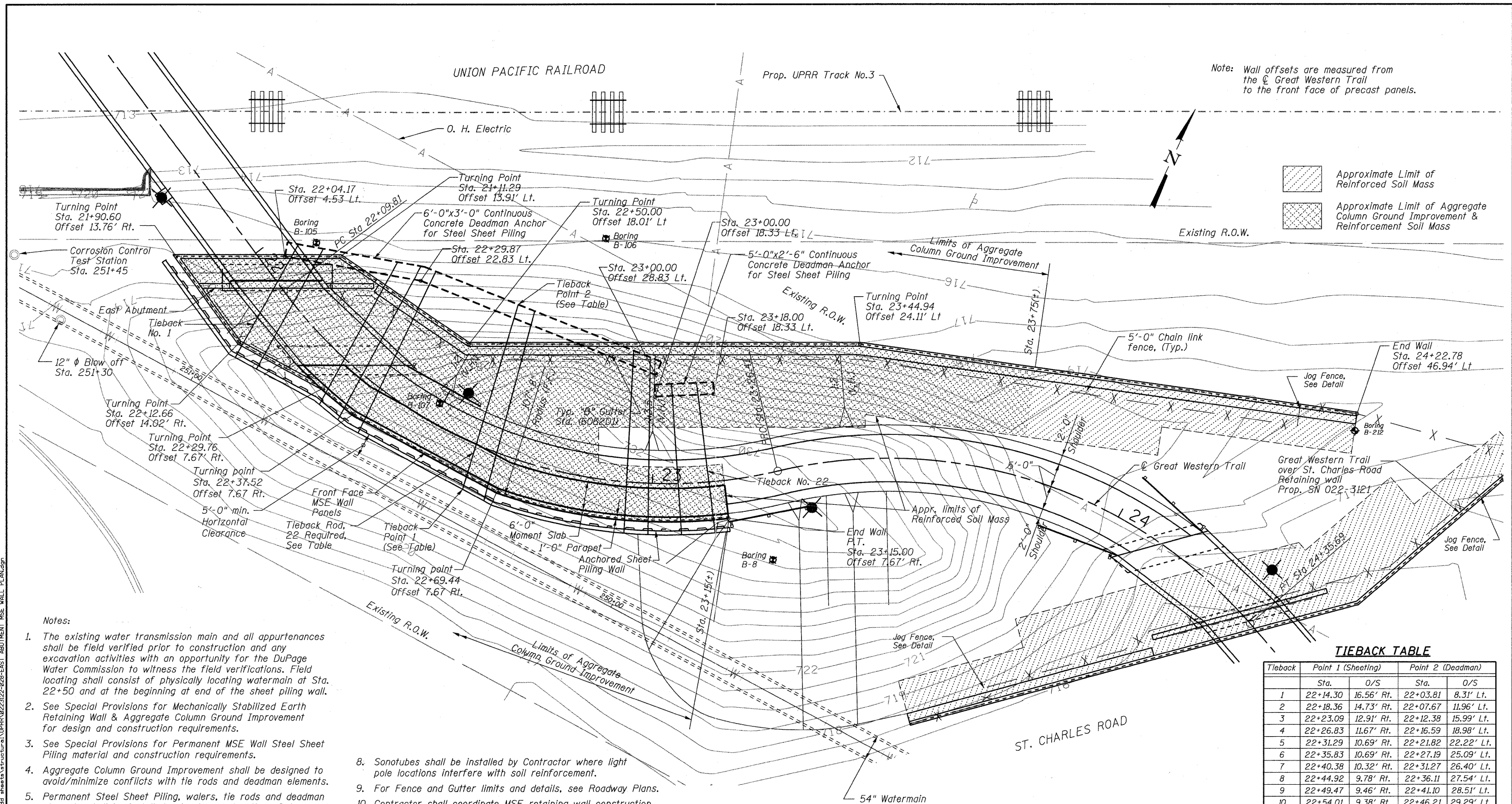
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD**

**WEST ABUTMENT MSE WALL DETAILS  
STRUCTURE NUMBER 022-3122**

SHEET NO. 27 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	107
			CONTRACT NO. 63568	

ILLINOIS FED. AID PROJECT



Note: Wall offsets are measured from the  $\odot$  Great Western Trail to the front face of precast panels.

Approximate Limit of Reinforced Soil Mass  
 Approximate Limit of Aggregate Column Ground Improvement & Reinforcement Soil Mass

Notes:

- The existing water transmission main and all appurtenances shall be field verified prior to construction and any excavation activities with an opportunity for the DuPage Water Commission to witness the field verifications. Field locating shall consist of physically locating watermain at Sta. 22+50 and at the beginning at end of the sheet piling wall.
- See Special Provisions for Mechanically Stabilized Earth Retaining Wall & Aggregate Column Ground Improvement for design and construction requirements.
- See Special Provisions for Permanent MSE Wall Steel Sheet Piling material and construction requirements.
- Aggregate Column Ground Improvement shall be designed to avoid/minimize conflicts with tie rods and deadman elements.
- Permanent Steel Sheet Piling, walers, tie rods and deadman elements shall be installed prior to construction of Aggregate Column Ground Improvement.
- Cast-in-place concrete and reinforcing steel, epoxy coated, required for coping will be included in payment for Mechanically Stabilized Earth Retaining Wall, see Special Provisions.
- Mechanically Stabilized Earth retaining wall supplier to coordinate location and lengths of soil reinforcement with light pole, conduit, and unit duct locations shown on Lighting Plans to avoid conflicts. Any load transfer system required shall be detailed and shown on Mechanically Stabilized Earth retaining wall Shop Drawings.
- Sonotubes shall be installed by Contractor where light pole locations interfere with soil reinforcement.
- For Fence and Gutter limits and details, see Roadway Plans.
- Contractor shall coordinate MSE retaining wall construction with abutment construction.
- The Contractor shall be cognizant about the site constraints and the related challenges associated with this work. Installation procedures will be affected by existing conditions and may require modifications to the details and/or procedures shown on the plans. It is the Contractor's responsibility to determine the most cost-effective method of construction and include all items necessary for the proper and safe execution of the work.
- The 12" Blow off at Watermain Station 251+30 and the Corrosion Control Test Station at Watermain Station 251+45 are to be adjusted by the DuPage Water Commission.

TIEBACK TABLE

Tieback	Point 1 (Sheeting)		Point 2 (Deadman)	
	Sta.	O/S	Sta.	O/S
1	22+14.30	16.56' Rt.	22+03.81	8.31' Lt.
2	22+18.36	14.73' Rt.	22+07.67	11.96' Lt.
3	22+23.09	12.91' Rt.	22+12.38	15.99' Lt.
4	22+26.83	11.67' Rt.	22+16.59	18.98' Lt.
5	22+31.29	10.69' Rt.	22+21.82	22.22' Lt.
6	22+35.83	10.69' Rt.	22+27.19	25.09' Lt.
7	22+40.38	10.32' Rt.	22+31.27	26.40' Lt.
8	22+44.92	9.78' Rt.	22+36.11	27.54' Lt.
9	22+49.47	9.46' Rt.	22+41.10	28.51' Lt.
10	22+54.01	9.38' Rt.	22+46.21	29.29' Lt.
11	22+58.55	9.52' Rt.	22+51.42	29.89' Lt.
12	22+63.10	9.88' Rt.	22+56.71	30.29' Lt.
13	22+67.64	10.48' Rt.	22+62.04	30.50' Lt.
14	22+72.19	10.74' Rt.	22+67.39	30.51' Lt.
15	22+76.73	10.74' Rt.	22+72.22	30.34' Lt.
16	22+81.28	10.74' Rt.	22+78.01	29.93' Lt.
17	22+85.82	10.74' Rt.	22+83.23	29.35' Lt.
18	22+90.36	10.74' Rt.	22+88.35	28.58' Lt.
19	22+94.91	10.74' Rt.	22+93.35	27.63' Lt.
20	22+99.45	10.74' Rt.	22+98.21	26.50' Lt.
21	23+05.81	10.74' Rt.	23+04.18	21.02' Lt.
22	23+12.18	10.74' Rt.	23+10.82	21.02' Lt.

FILE NAME = w:\756-004.Lombard - gnt bridges phase 1\cadd sheets\structural\UPRR\0223122-028-EAST ABUTMENT MSE WALL.PLAN.dgn

**Bollinger, Lach & Associates, Inc.**  
 ITASCA, ILLINOIS

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PLOT SCALE =	DRAWN GM	CHECKED JJT	REVISIONS
PLOT DATE = 7/26/2011			

**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 UNION PACIFIC RAILROAD**

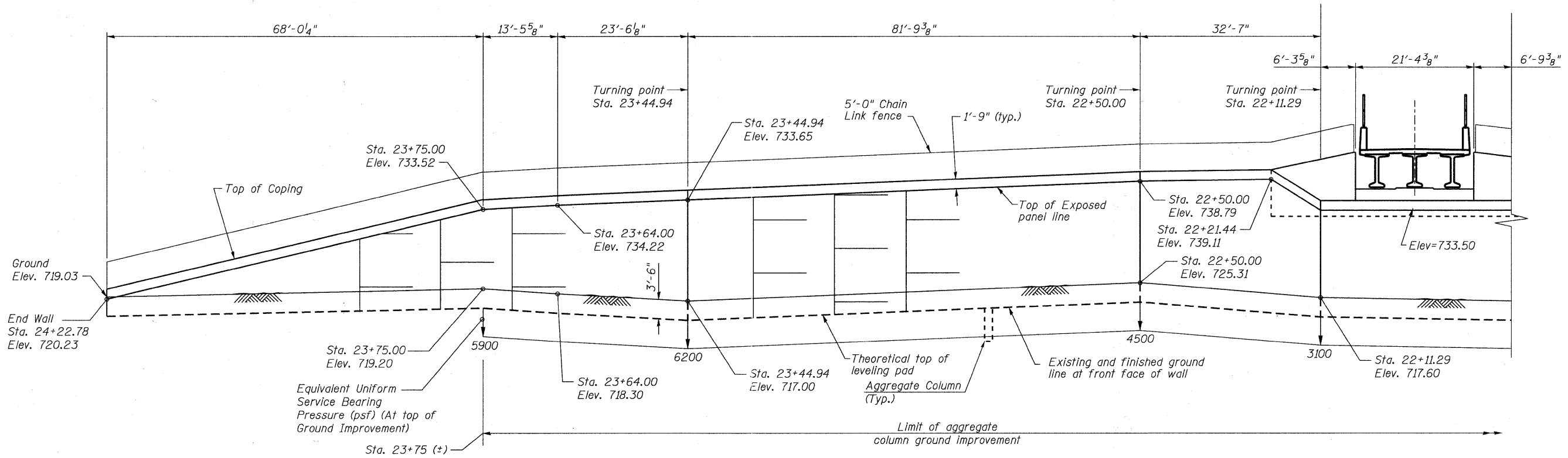
**EAST ABUTMENT MSE WALL PLAN  
 STRUCTURE NUMBER 022-3122**

SHEET NO. 28 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	108
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



FILE NAME = s:\756-004.Lombard - gwt\_bridges\_phase 1\cadd\_sheets\structure\IPRR\022312-029-EAST ABUTMENT NORTH MSE WALL ELEVATION.dgn



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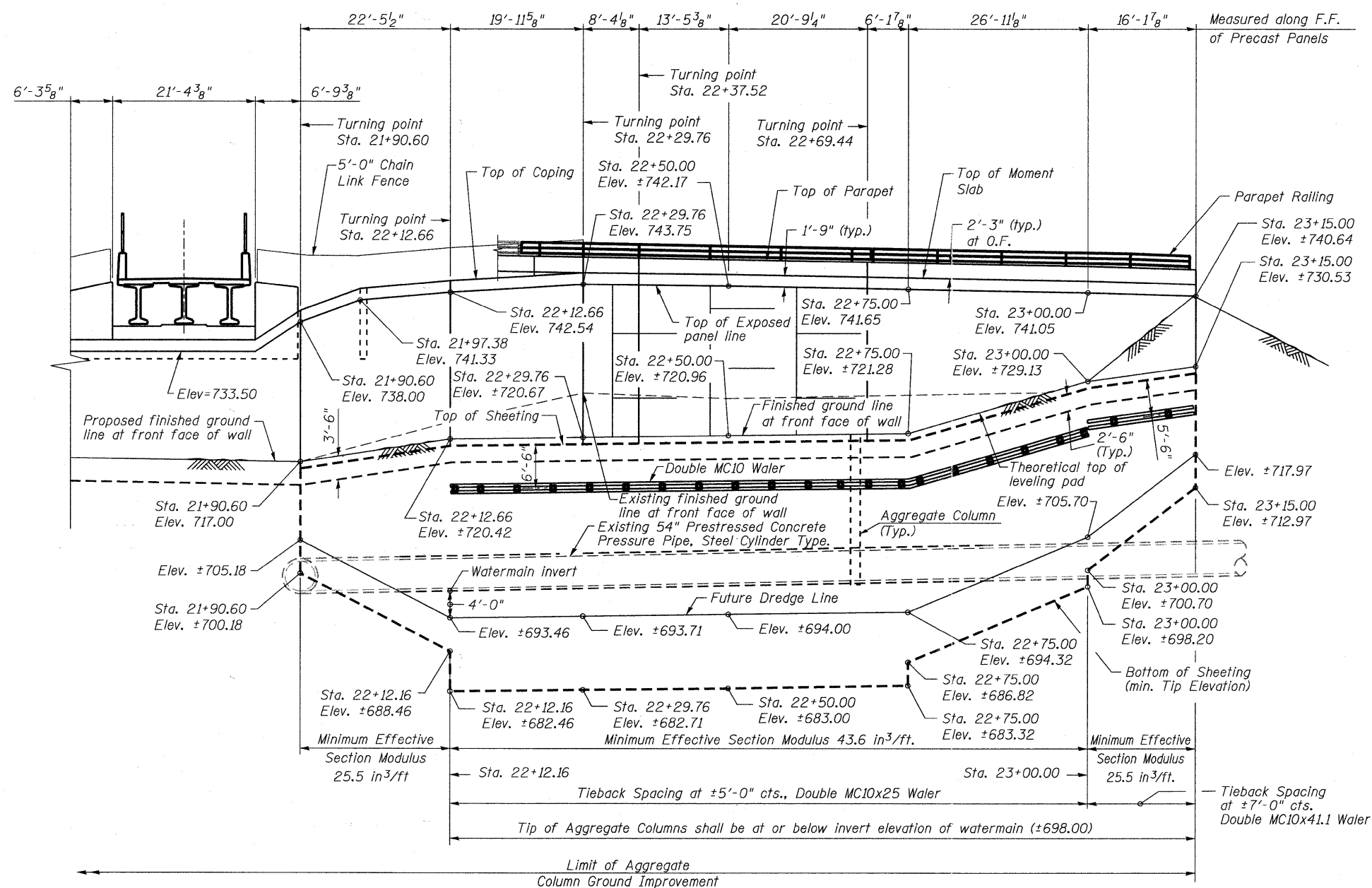
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD**

**EAST ABUTMENT NORTH MSE WALL ELEVATION  
STRUCTURE NUMBER 022-3122**

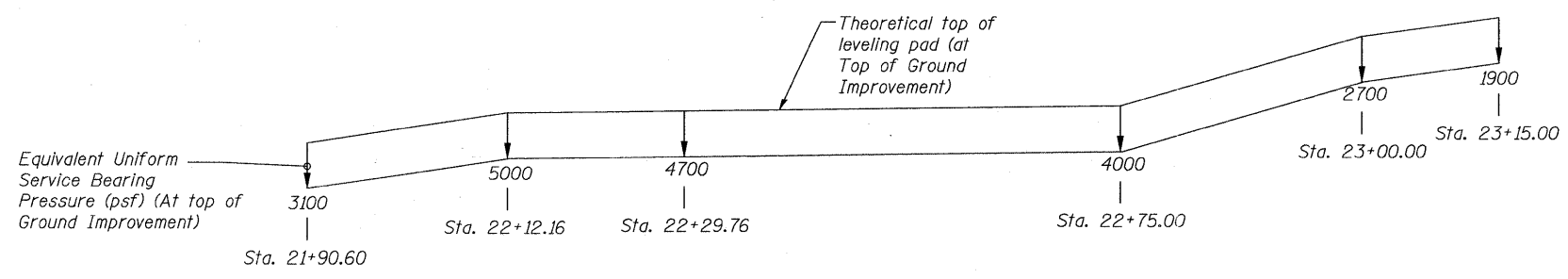
SHEET NO. 29 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	109
			CONTRACT NO. 63568	

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**ELEVATION (DEVELOPED)**  
(Looking @ F.F. of Wall)

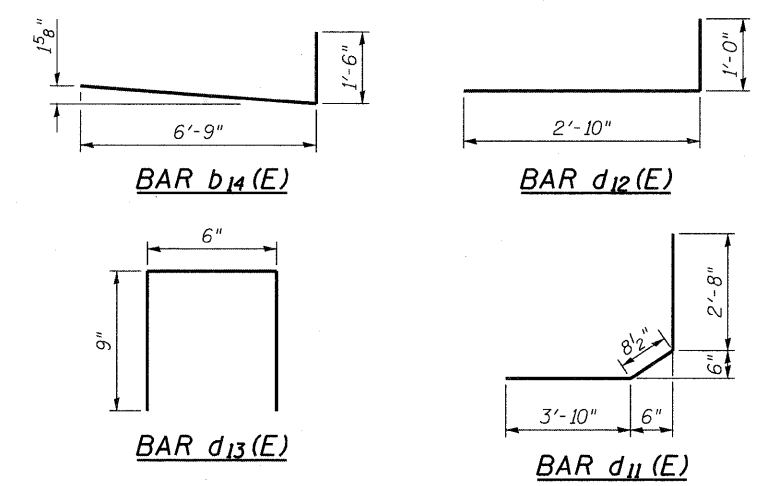


**EQUIVALENT UNIFORM SERVICE BEARING PRESSURE**

**BILL OF MATERIAL - EAST - MSE WALLS**

Bar	No.	Size	Length	Shape
b <sub>10</sub> (E)	17	#5	30'-7"	—
b <sub>11</sub> (E)	17	#5	23'-5"	—
b <sub>12</sub> (E)	17	#5	22'-0"	—
b <sub>13</sub> (E)	17	#5	27'-5"	—
b <sub>14</sub> (E)	100	#5	8'-3"	—
b <sub>15</sub> (E)	100	#5	4'-8"	—
d <sub>10</sub> (E)	102	#4	2'-1"	—
d <sub>11</sub> (E)	102	#6	7'-3"	—
d <sub>12</sub> (E)	102	#4	3'-10"	—
d <sub>13</sub> (E)	24	#4	2'-0"	—
e <sub>10</sub> (E)	8	#5	30'-0"	—
e <sub>11</sub> (E)	16	#5	24'-0"	—
e <sub>12</sub> (E)	8	#5	27'-2"	—
Structure Excavation			Cu. Yd.	1630
Mechanically Stabilized Earth Retaining Wall			Sq. Ft.	7372
Anti-Graffiti Protection System			Sq. Ft.	6922
Aggregate Column Ground Improvement - Location 3			L. Sum.	1
Form Liner Textured Surface, Special			Sq. Ft.	6789
Permanent Steel Sheet Piling			Sq. Ft.	4455
Concrete Superstructure, Special			Cu. Yd.	7.9
Concrete Superstructure			Cu. Yd.	38.7
Reinforcement Bars, Epoxy Coated			Lbs.	5620
Protective Coat			Sq. Yd.	70
Parapet Railing			Foot	101.3

Note: Included in the contract unit price per square foot for Permanent Steel Sheet Piling shall be the necessary walers, concrete deadman, tie rods and associated connection hardware necessary for construction of anchored sheet pile wall. See Special Provision Permanent MSE Wall Steel Sheet Piling.



FILE NAME = w:\756-004\_lombard - gnt\_bridges phase 1\load sheets\structural\UPRR\022312-930-EAST ABUTMENT SOUTH MSE WALL ELEVATION.dgn

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PLOT DATE = 7/26/2011	DRAWN GM	REVISED -
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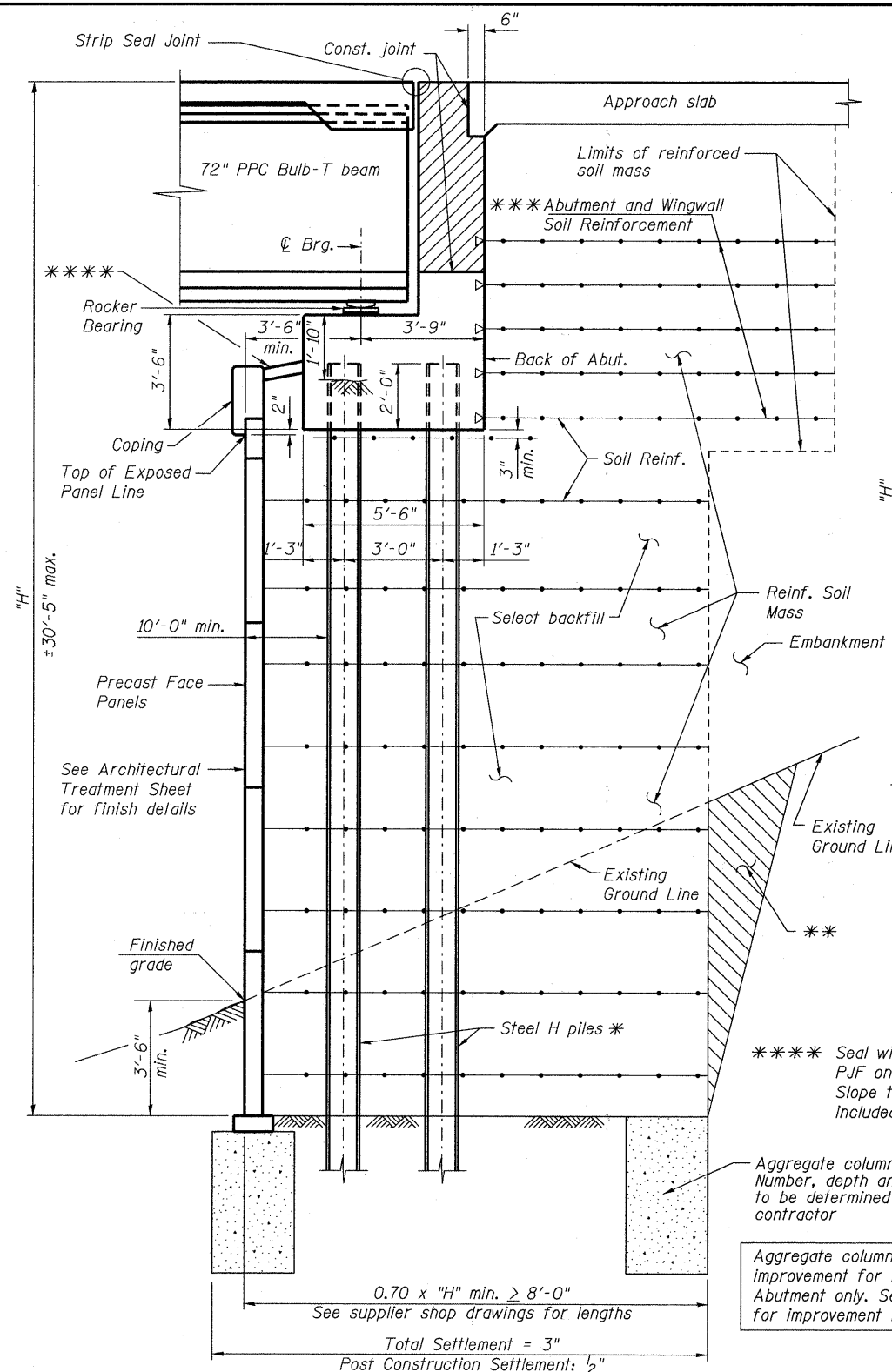
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD**

**EAST ABUTMENT SOUTH MSE WALL ELEVATION  
STRUCTURE NUMBER 022-3122**

SHEET NO. 30 OF 37 SHEETS

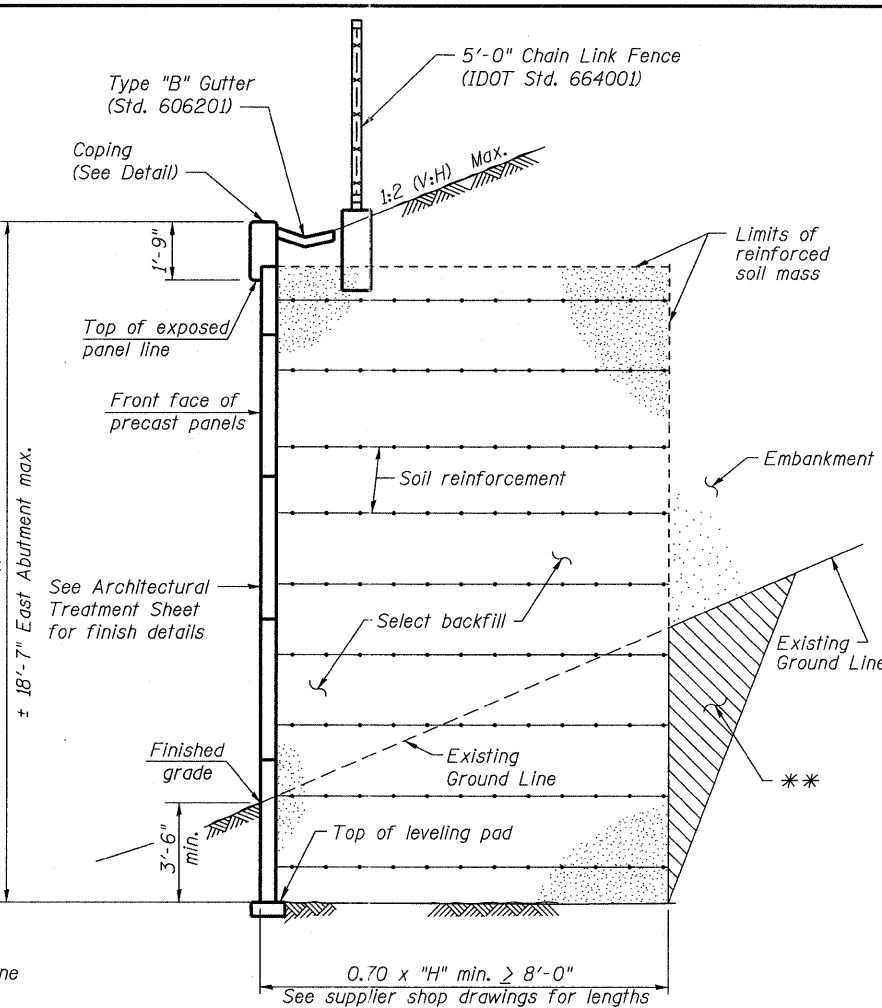
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	06-00151-00-BR	DuPAGE	201	110
			CONTRACT NO. 63568	

ILLINOIS FED. AID PROJECT



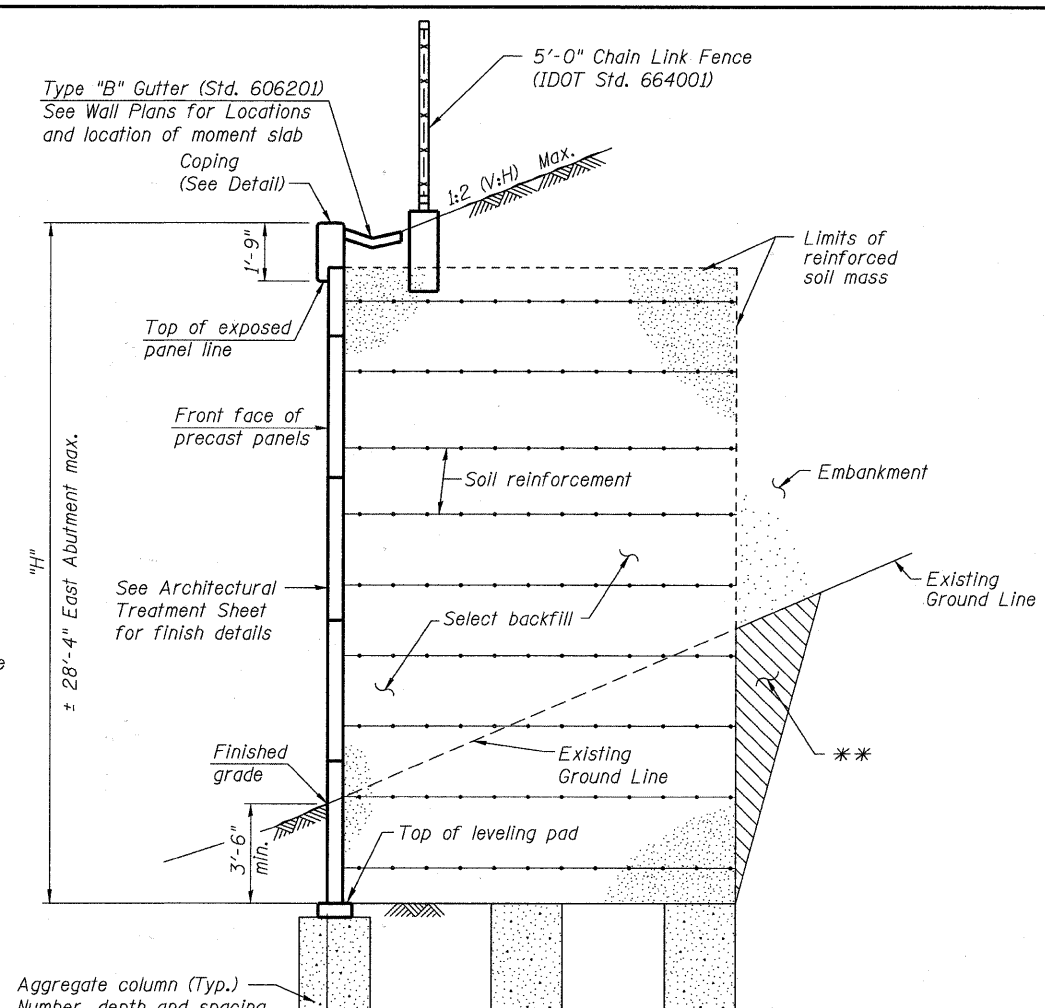
**SECTION THRU EAST ABUTMENT**

- \* Piles shall be driven prior to placement of reinforced select fill and coated with bitumen coating from the bottom of the select fill to 1" above the base of the abutment. The cost of the bitumen coating shall be included with the cost of the Furnishing Piles.
- \*\* Overexcavation beyond the limits of Structure Excavation. This area not measured for payment. Backfill overexcavation with same material as used for select fill.
- \*\*\* The MSE Wall supplier shall design the abutment and wingwall soil reinforcement to resist a horizontal force of 2 kips/foot of abutment. Contractor shall coordinate abutment construction with construction of MSE Retaining Wall.



**TYP. SECTION THRU MSE WALL (WITHOUT GROUND IMPROVEMENT)**

\*\*\* Backfill overexcavation w/same material as used for select fill



**TYP. SECTION THRU MSE WALL (WITH GROUND IMPROVEMENT)**

\*\*\* Backfill overexcavation w/same material as used for select fill

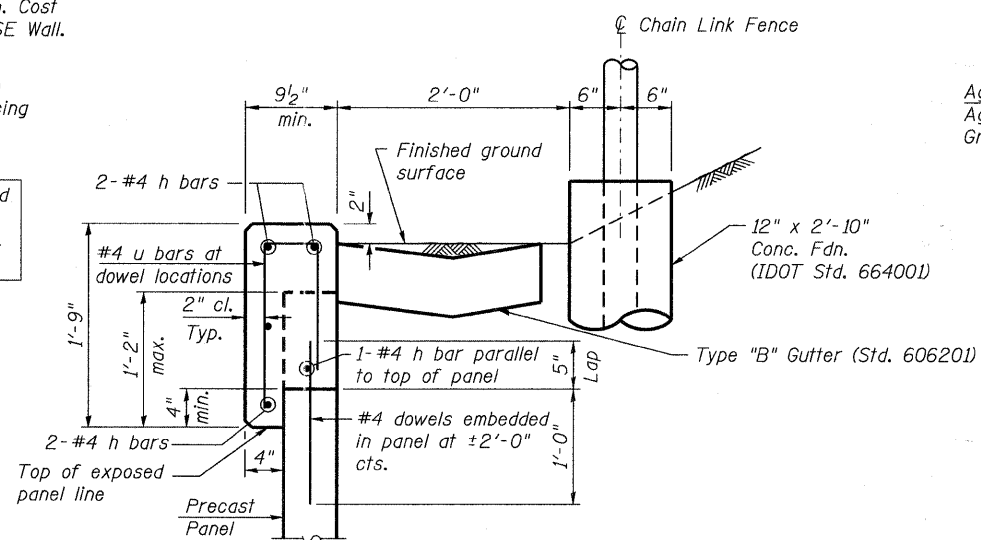
**Aggregate Column Notes:**  
Aggregate columns shall be constructed according to the special provision Aggregate Column Ground Improvement, as noted below and as shown on the plans.

**Design Criteria:**  
(c) Total and post construction settlement shall be as shown on the plans.

The design shall use long term strength parameters for the soil.

**Construction Tolerances:**  
The top elevation of the aggregate column ground improvement shall be at the base of the MSE wall leveling pad for abutments and wingwalls.

**Verification Program:**  
The Contractor shall load test at least one aggregate column at the east abutment of the UPRR prior to constructing any portion of the MSE wall. This work is included as part of the contractor's verification program. The test is to be performed on an individual aggregate column. The tested aggregate column shall not be a production aggregate column, but should be located adjacent to and at the same elevation as those under the abutment. The load test shall be within the lowest strength existing soils at the east abutment location. The aggregate column shall be loaded to 150% of the design stress shown in the approved design computations for the abutment location. The design computations shall clearly show the calculated design stress, the location for the load test, and the rational used to determine the location.



**SECTION THRU TOP OF MSE WALL**

FILE NAME = s:\756-204\_Tombard - gwt\_bridges\_phase 1\cadd\_sheets\structural\UPRR\0223122-931-EAST ABUTMENT MSE WALL DETAILS.dgn

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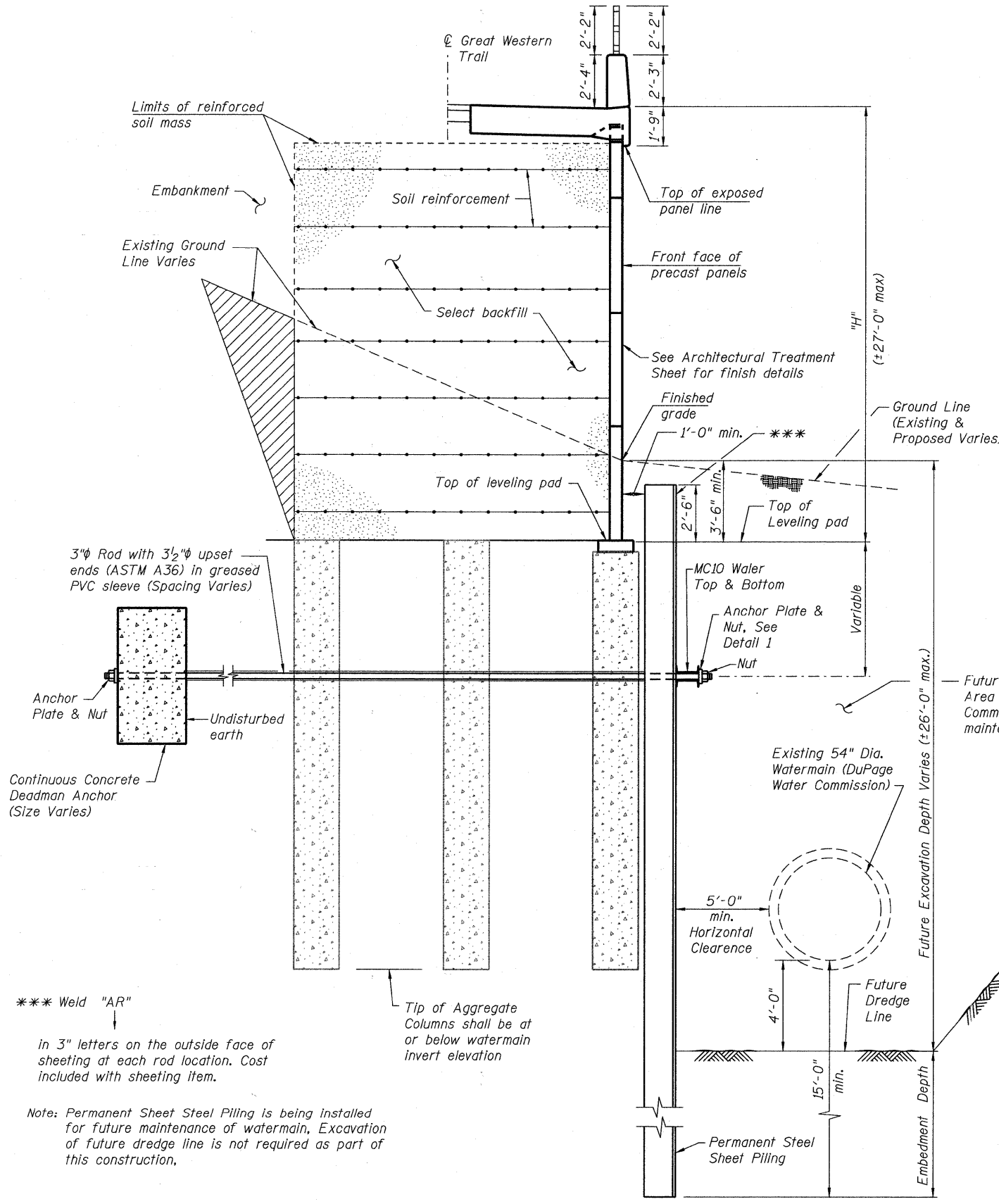
STATE OF ILLINOIS
GREAT WESTERN TRAIL
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EAST ABUTMENT MSE WALL DETAILS I
STRUCTURE NUMBER 022-3122
SHEET NO. 31 OF 37 SHEETS

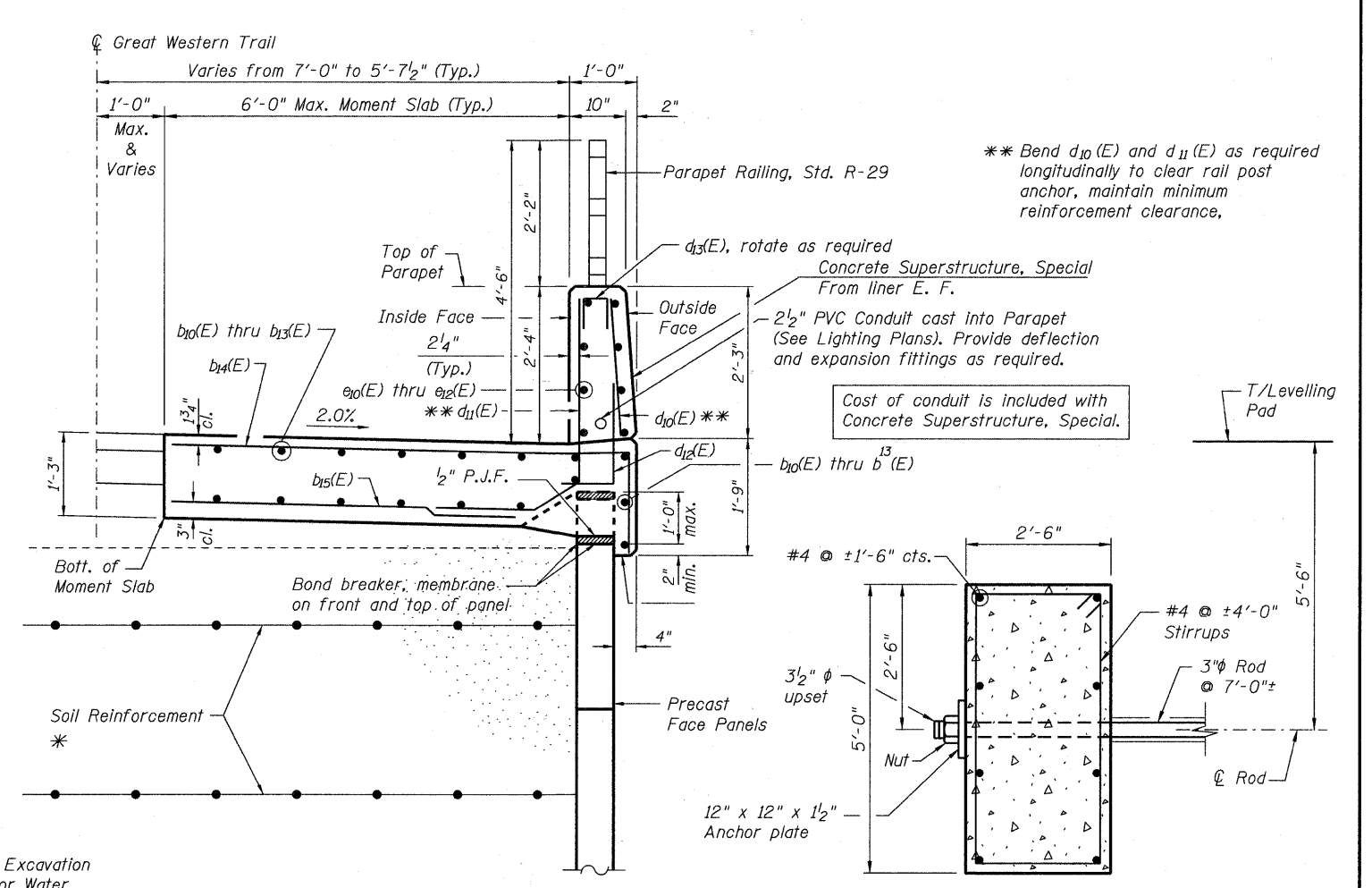
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	06-00151-00-BR	DuPAGE	201	111
CONTRACT NO. 63568				

ILLINOIS FED. AID PROJECT				
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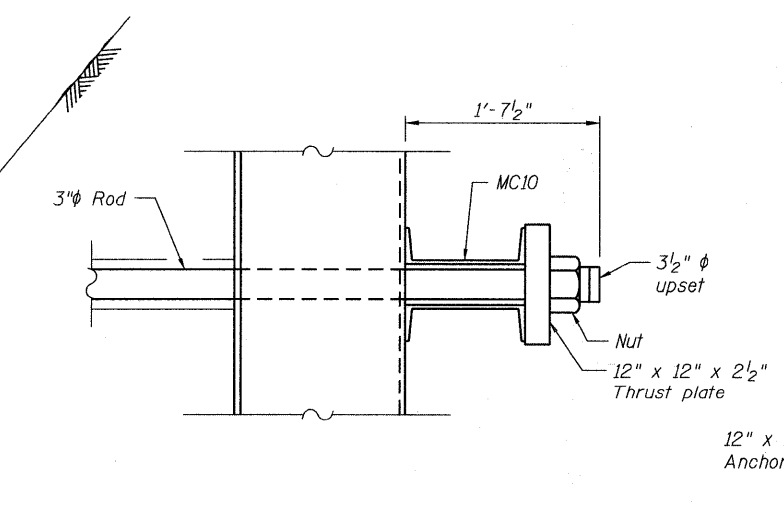
**SECTION THRU SHEET PILE WALL**



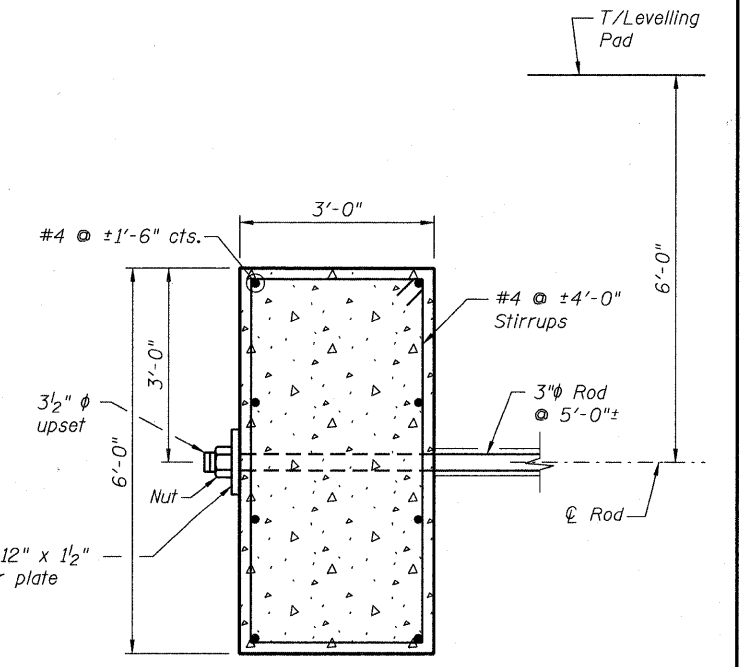
**SECTION THRU PARAPET & MOMENT SLAB**  
Width varies, see plan.

\* the M.S.E. wall supplier's internal stability design shall account for the anchored slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kps/ft. of wall.

**CONCRETE DEADMAN (5'-0" x 2'-6")**



**DETAIL 1 - WALER FOR THREADED BARS**



**CONCRETE DEADMAN (6'-0" x 3'-0")**

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PLOT DATE = 7/26/2011

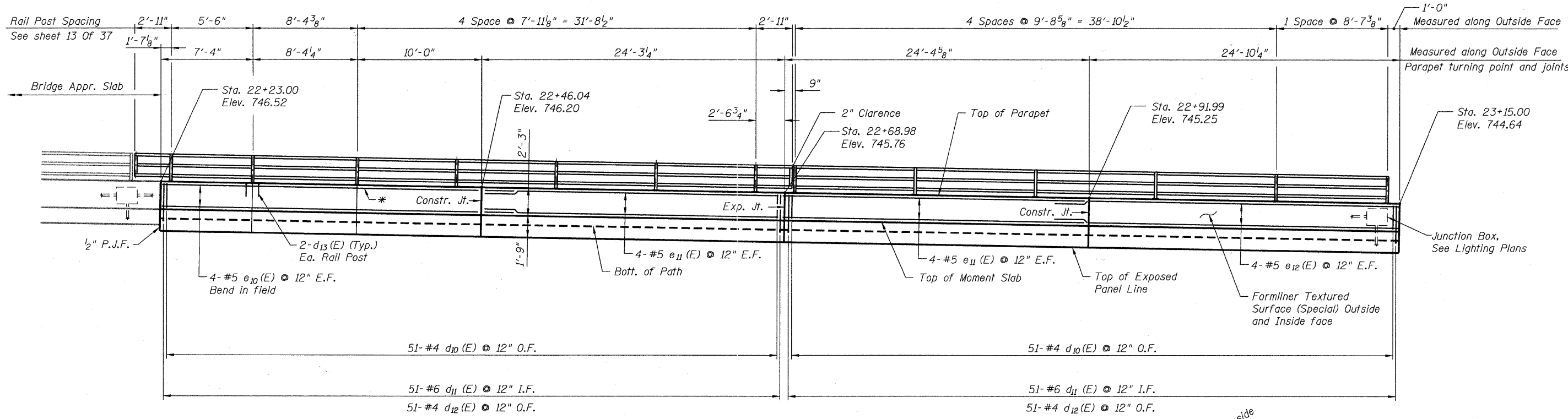
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GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD**

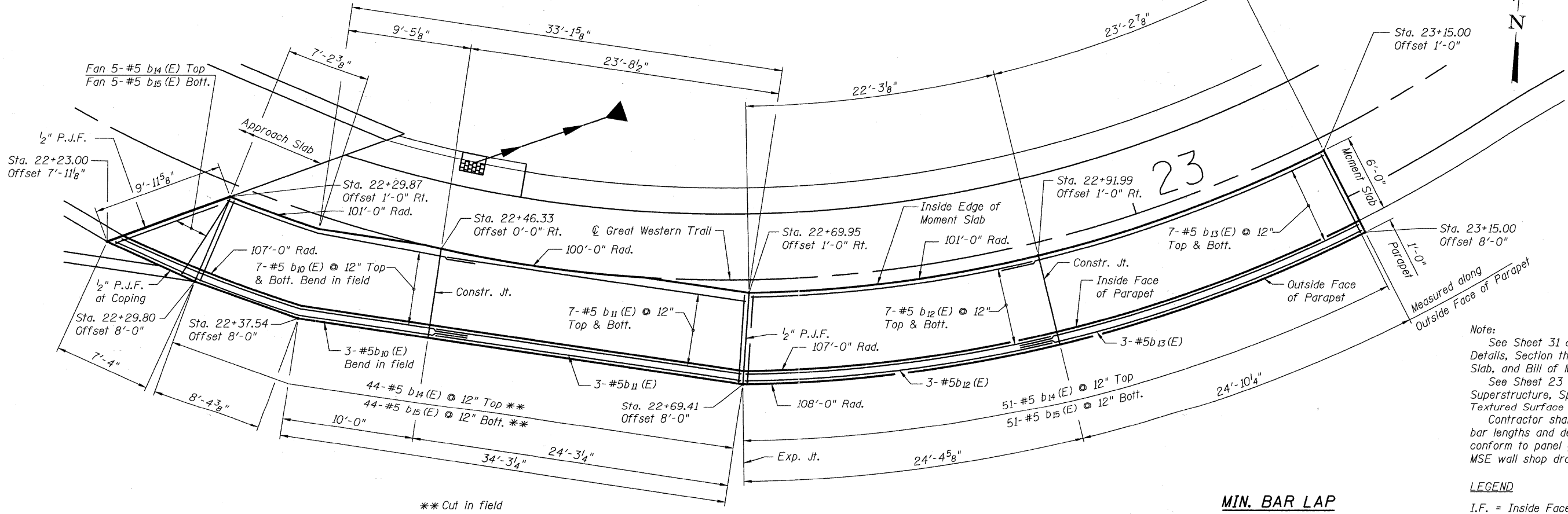
**EAST ABUTMENT MSE WALL DETAILS II  
STRUCTURE NUMBER 022-3122**  
SHEET NO. 32 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	112
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



\* Locate top row of longitudinal parapet reinforcement clear of rail post anchors, maintain minimum reinforcement clearance.

**PARAPET ELEVATION**  
(Outside Face Shown)



\*\* Cut in field as required

**MOMENT SLAB/PARAPET PLAN**

**MIN. BAR LAP**  
#5 bar = 2'-3"

Note:  
See Sheet 31 and 32 of 37 for Wall Details, Section thru Parapet and Moment Slab, and Bill of Material.  
See Sheet 23 of 37 for Concrete Superstructure, Special and Form liner Textured Surface (Special) details.  
Contractor shall coordinate and adjust bar lengths and details as required to conform to panel geometry on approved MSE wall shop drawings.

**LEGEND**  
I.F. = Inside Face  
O.F. = Outside Face  
E.F. = Each Face

FILE NAME = s:\756-004\_tombard - gwt bridges phase 1\wood sheets\structural\IPRRN\0223122-033-Parapet and Moment Slab.dgn

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**PARAPET AND MOMENT SLAB SOUTHEAST MSE WALL**  
**STRUCTURE NO. 022-3122**

SHEET NO. 33 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	113
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2  
Date Started 6/28/06  
Date Completed 6/28/06

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-85,946  
COUNTY DuPage LOCATION North of U.P. Railroad S. 5-SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	DEPTH	BLOWS	Qu	W
4			716.74						Dry to 6.0'	Wash				
				2	P	2.5	16.6				3	B	2.7	17.3
			713.74	2	P						5	B	15%	
				2	P	3.0	18.5				4	B	3.4	16.5
			711.24	5	P						10	B	15%	
				4	S	5.2	16.0				7	S	3.1	15.1
			706.24	7	P	4.5	11.8				10	S	12%	
				4	S	3.2	19.4				7	S	13%	
			703.74	7	P						8	B	15%	15.1
				6	B	4.2	15.5				7	B	15%	15.5
			698.74	3	B	2.6	18.1				6	B	1.4	15.3
				4	B	2.5	17.2				8	B	3.4	18.2
			693.74	8	B	3.4	18.2				10	S		
			691.74	8	B	3.4	18.2				9	S		
				8	B	3.4	18.2				11	S		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2  
Date Started 6/28/06  
Date Completed 6/28/06

STRUCTURE NO. \_\_\_\_\_ ROUTE \_\_\_\_\_ SECTION \_\_\_\_\_ COUNTY DuPage  
STRUCTURE NO. \_\_\_\_\_ ROUTE \_\_\_\_\_ SECTION \_\_\_\_\_ COUNTY DuPage

Boring No.	Station	Offset	Surface Elev.	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	DEPTH	BLOWS	Qu	W
4			666.74											
				5	B	2.3	11.5				10	S	4	11.1
			664.74	8	B	15%					14	S	2.3	13.2
				7	B	2.3	11.5				20	S	3.0	19.7
			659.74	5	B	3.25					30	S	4.3	
				10	S	4	11.1				43	S		
			654.74	14	S	2.3	13.2				70	S		
				25	S	2.1	13.2				75	S		
			649.74	20	S	3.0	19.7				80	S		
				30	S	4.3					85	S		
			644.74	43	S						90	S		
				70	S						95	S		
			643.24	80	S						100	S		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 2/20/09  
Date Completed 2/20/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-72,921  
COUNTY DuPage LOCATION North of U.P. Railroad S. 5-SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	DEPTH	BLOWS	Qu	W
103			716.50											
				5	P						3	P	2.0	25.2
			713.50	3	P						3	P	2.0	25.2
				3	P						2	P	1.5	23.1
			708.50	2	P						3	P	3.0	17.7
				4	P	4.0	15.6				4	P	3.5	16.4
			703.50	6	P	2.75	18.1				6	P	2.25	18.3
				6	P	3.0	16.9				6	P	3.0	16.5
			691.50	6	P	3.0	16.5				6	P	3.0	16.5

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = w:\756-204\_Lombard - gwt bridges phase 1\cadd sheets\structural\UPRR\0223122-934-Soil\_Boring\_Log.dgn

<p><b>Bollinger, Lach &amp; Associates, Inc.</b> ITASCA, ILLINOIS</p>	USER NAME = gonzo	DESIGNED SRT	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b> <b>UNION PACIFIC RAILROAD</b></p>	<p align="center"><b>SOIL BORING LOGS 4 &amp; 103</b> <b>STRUCTURE NO. 022-3122</b></p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED JJI	REVISED -			06-00151-00-BR	DuPAGE	201	114	
	PLOT DATE = 7/26/2011	CHECKED JJI	REVISED -			CONTRACT NO. 63568				

SHEET NO. 34 OF 37 SHEETS

ILLINOIS FED. AID PROJECT

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2  
Date Started 6/29/06  
Date Completed 6/29/06

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-65,946  
COUNTY DuPage LOCATION South of U.P. Railroad S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev.:	when drilling	at Completion	Hrs.	DEPTH	BLOWS	Qu	W
5															
							717.60								
			717.10												
			714.60		16.4										
			712.10		20.7										
			709.60		35.5										
			707.10		17.7										
			704.60		16.2										
			699.60		13.3										
			694.60		14.3										
			692.60		16.3										
			670.60		15.9										
					16.0										

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2  
Date Started 6/29/06  
Date Completed 6/29/06

STRUCTURE NO. \_\_\_\_\_ ROUTE \_\_\_\_\_ SECTION \_\_\_\_\_ COUNTY DuPage  
STRUCTURE NO. \_\_\_\_\_ ROUTE \_\_\_\_\_ SECTION \_\_\_\_\_ COUNTY DuPage

Boring No.	Station	Offset	Elevation	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev.:	when drilling	at Completion	Hrs.	DEPTH	BLOWS	Qu	W
5			667.60													
			665.60													
			660.60													
			655.60													
			650.60													
			644.10													

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 7/12/06  
Date Completed 7/12/06

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-65,946  
COUNTY DuPage LOCATION North of St. Charles Road S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev.:	when drilling	at Completion	Hrs.
8			728.42									
			727.72									
			722.92									
			717.92									
			715.42									
			713.92									
			712.92									
			708.42									

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = w:\756-004\_Lombard - gwt bridges phase 11\ecdd\_sheets\structural\IPRR\_0223122-035-Soil-Boring\_Logs.dgn



USER NAME = gonzo  
PLOT SCALE =  
PLOT DATE = 7/26/2011

DESIGNED SRT  
CHECKED JJI  
DRAWN GM  
CHECKED JJI

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD

SOIL BORING LOGS 5 & 8  
STRUCTURE NO. 022-3122  
SHEET NO. 35 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	115
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 2/19/09

Date Completed 2/19/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-72.921  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	LOG	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	DEPTH	LOG	Qu	W
104			716.30						699.8	699.8				
				3	FILL - Black and brown CLAY, trace gravel, trace organic, moist (CL) A-7-6	3.25	20.4							
				4										
			713.30		Very stiff black CLAY, trace to little organic, moist (CL/CH) A-7-6	2.25	28.1							
			711.30		Very stiff brown and gray CLAY, trace gravel, moist (CL) A-6	3.0	22.7							
				4		3.0	16.3							
				5										
				6		3.5	14.5							
			703.30		Med. dense brown and gray SILTY LOAM, moist to very moist (ML) A-4		15.0							
				16										
							13.3							
			698.30		Med. dense gray SANDY LOAM, wet (SM) A-4		15.4							
				20										
			695.80		Very stiff gray CLAY, little gravel, moist (CL) A-6	2.75	16.9							
				24										
			691.30			2.75	15.1							
				28										

End of Boring at 25.0'

Diedrich D-50 Track ATV Rig (#314)  
CME Automatic Hammer

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 2/17/09

Date Completed 2/17/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-72.921  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	LOG	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	DEPTH	LOG	Qu	W
105			716.00						703.0	700.0				
				5	Black CLAY (topsoil), very moist (OL) A-7-6		33.4							
			713.50		Stiff to very stiff brown and gray CLAY, trace gravel, very moist to moist (CL) A-7-6									
				3		1.4	23.4							
				5		1.5	27.0							
				3		1.7	28.1							
				5		1.9	23.8							
			703.00		Very stiff to stiff gray CLAY, little gravel, occasional sand seams, moist (CL) A-6									
				4		3.2	16.5							
				6		3.0	15.2							
				8										
			674.00		Very dense gray SAND and GRAVEL, occasional Cobbles and Boulders, saturated (GP) A-1									
				4		2.9	15.9							
				6										
				8		2.3	17.1							
				12										
			669.00			2.0	16.3							
				5										
				7										

Auger Refusal at 47.2'

Diedrich D-50 Track ATV Rig (#314)  
CME Automatic Hammer

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 2/17/09

Date Completed 2/17/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-72.921  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	LOG	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	DEPTH	LOG	Qu	W
106			716.10						702.6	703.1				
				3	FILL - Black CLAY (topsoil) (OL) A-7-6									
			715.30		FILL - Brown and gray CLAY, trace gravel, moist (CL) A-6		18.8							
				4		3.0								
			713.10		FILL - Black and brown CLAY, trace gravel, trace organic, moist (CL) A-7-6		26.5							
				3		2.5								
			710.60		Very stiff to stiff brown and gray CLAY, trace gravel, moist to very moist (CL) A-7-6									
				3		2.75	25.3							
				4										
				3		1.5	20.9							
				5										
			705.60		Hard to very stiff gray CLAY, little gravel, occasional sand seams, moist (CL) A-6									
				4		4.0	15.3							
				5										
				7		3.0	15.9							
				4										
				8		3.0	15.0							
				4										
				6		2.5	16.6							
				4										
				6										
			693.10		Stiff gray CLAY, trace gravel, moist (CL) A-6									
				6		1.25	18.2							
				10										
			691.10											

End of Boring at 25.0'

Diedrich D-50 Track ATV Rig (#314)  
CME Automatic Hammer

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = \\V756-004\_Lombard - gwt\_bridges\_phase\_11\odd\_sheets\structural\UPRR\0223122-236-Soil\_boring\_logs.dgn



USER NAME = gonzalo  
PLOT SCALE =  
PLOT DATE = 7/26/2011

DESIGNED SRT  
CHECKED JJI  
DRAWN GM  
CHECKED JJI

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
UNION PACIFIC RAILROAD

SOIL BORING LOGS 104, 105 & 106  
STRUCTURE NO. 022-3122  
SHEET NO. 36 OF 37 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	116
				CONTRACT NO. 63568

ILLINOIS FED. AID PROJECT



Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 2/16/09  
Date Completed 2/16/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-72.921  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5-SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
107										
Surface Elev. <u>729.50</u> ft										
FILL - Black CLAY (topsoil) (OL) A-7-6 728.90										
FILL - Brown and black CLAY, trace gravel, trace organic, trace Brick Pieces, moist (CL) A-6										
				HA	P	2.0 15.9				
				HA	P	1.75 19.8				
				HA	P	4.0 15.1				
FILL - Brown and black CLAY, trace gravel, trace to little organic, moist (CL) A-7-6 721.50										
				HA	P	1.0 18.8				
				HA	P	1.5 19.2				
				HA	P	1.0 26.1				
End of Hand Auger Boring at 15.0'										
Diedrich D-50 Track ATV Rig (#314) CME Automatic Hammer										

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test  
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 7/15/09  
Date Completed 7/15/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges and Retaining Walls  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-73.695  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5-SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	DEPTH	BLOWS	Qu	W	Surface Water Elev.	Groundwater Elev. when drilling	Groundwater Elev. at Completion	Hrs.
212										
Surface Elev. <u>716.20</u> ft										
FILL - Blk clayey TOPSOIL (OL) A-7-6 715.00										
FILL - Brown and black CLAY, little gravel, trace organic, moist (CL) A-6 714.20										
				3	P	14.4				
				2	P	3.5				
				4	P	14.8				
FILL - Dk brn SANDY LOAM, tr gravel, tr organic, moist (SC) A-4										
				5	P	4.5+				
				8	P	14.8				
				7	P	14.8				
Very stiff brown and gray CLAY, tr gravel, trace organic, moist (CL) A-7-6 710.70										
				4	P	28.9				
				5	P	2.0				
				6	P	18.0				
Very stiff brown and gray CLAY, little gravel, moist (CL) A-6 708.20										
				4	P	3.25				
				6	P	18.0				
				8	P	18.0				
End of Boring at 10.0'										

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test  
Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = n:\756-004.Lombard - gnt\_bridges phase 1\neadd sheets\structure\NIPRR\0223122-037-Soil\_boring\_logs.dgn

L:\DOT BORING 72921.GPJ\DOT\DOT 5/14/09

L:\DOT BORING 73695.GPJ\DOT\DOT 10/16/09

Bench Mark: - Brass disk, DuPage County, West side of Grace Street beyond sidewalk. Approx. 180' South of Prairie Ave. Elev. 712.12

Existing Structure: None

Aerial Wire

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**PRECAST UNITS**

f'c = 6,000 psi  
f'ci = 5,000 psi  
fpu = 270,000 psi (1/2"  $\phi$  low lax. strands)  
fpbt = 201,960 psi (1/2"  $\phi$  low lax. strands)  
f'c = 4,500 psi (Precast Panels)

**DESIGN SPECIFICATIONS**

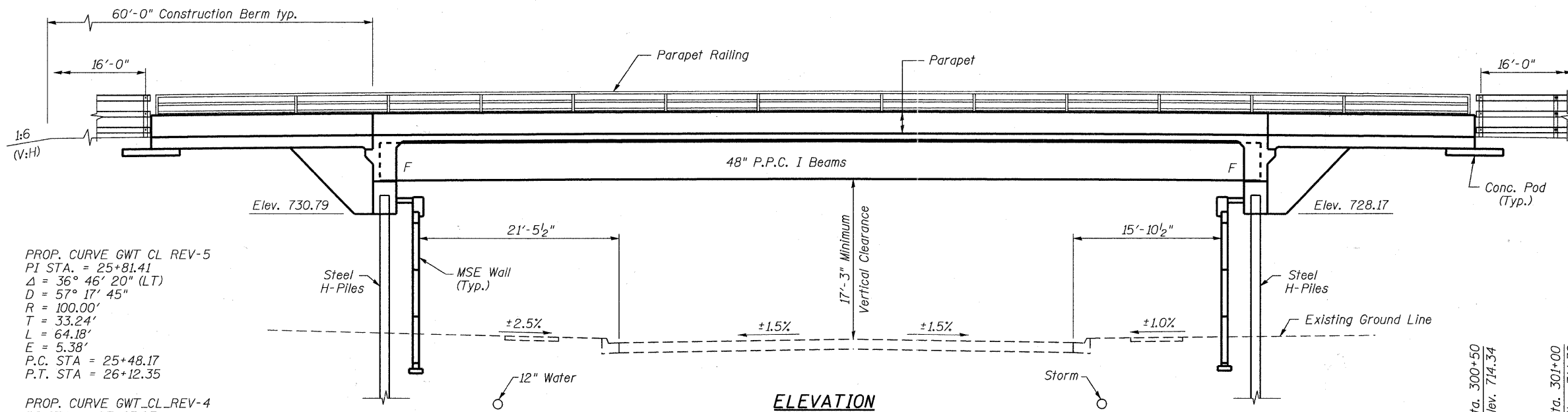
2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims  
2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges

**LOADING H2O**

Pedestrian Live Load 90#/sq. ft.  
Allow 25#/sq. ft. for future wearing surface.

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = 0.087  
Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = 0.154  
Soil Site Class = D

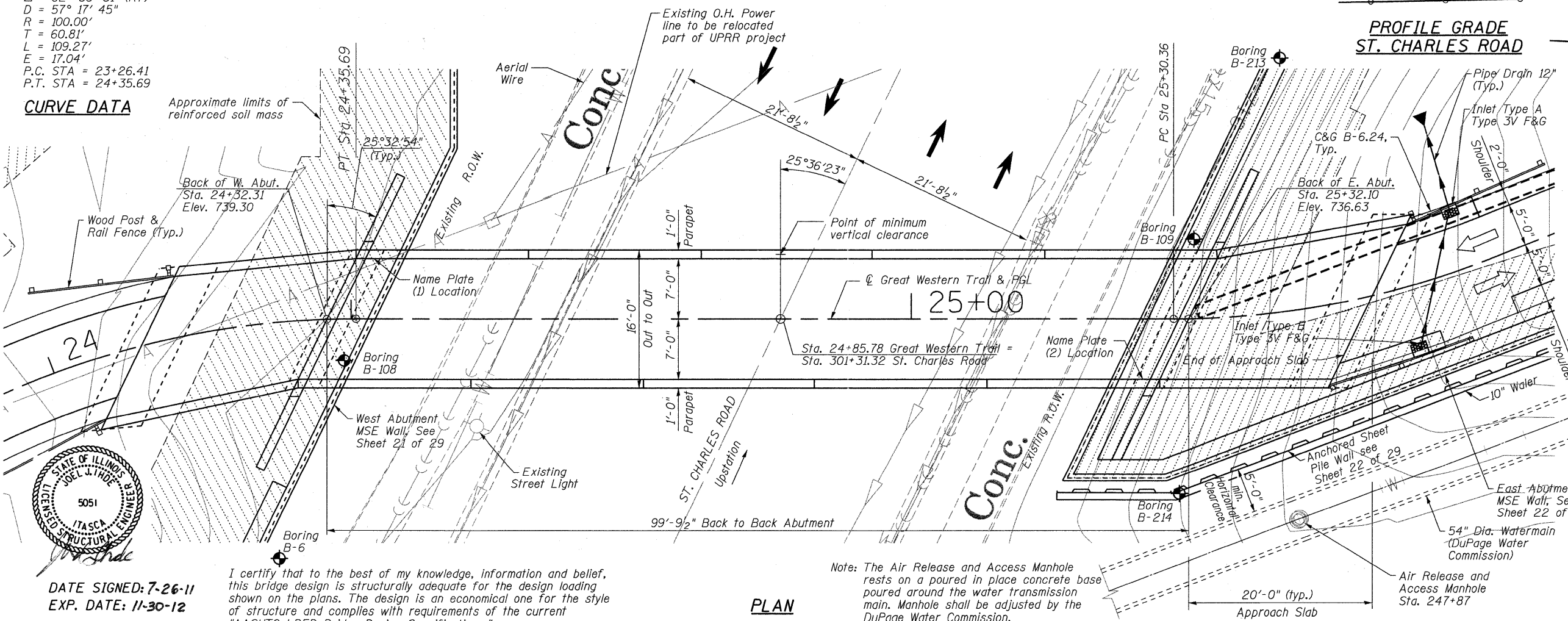


PROP. CURVE GWT CL REV-5  
PI STA. = 25+81.41  
 $\Delta = 36^\circ 46' 20''$  (LT)  
D = 57' 17' 45"  
R = 100.00'  
T = 33.24'  
L = 64.18'  
E = 5.38'  
P.C. STA = 25+48.17  
P.T. STA = 26+12.35

PROP. CURVE GWT CL REV-4  
PI STA. = 23+87.23  
 $\Delta = 62^\circ 36' 31''$  (RT)  
D = 57' 17' 45"  
R = 100.00'  
T = 60.81'  
L = 109.27'  
E = 17.04'  
P.C. STA = 23+26.41  
P.T. STA = 24+35.69

**CURVE DATA**

Approximate limits of reinforced soil mass

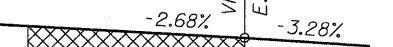


**PLAN**

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications."

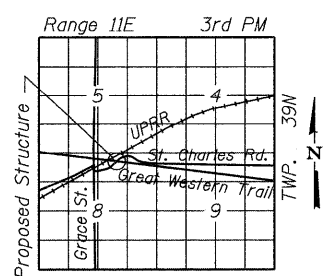
Note: The Air Release and Access Manhole rests on a poured in place concrete base poured around the water transmission main. Manhole shall be adjusted by the DuPage Water Commission.

**PROFILE GRADE ST. CHARLES ROAD**

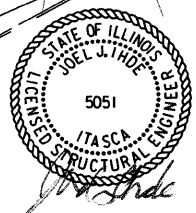


**PROFILE GRADE TRAIL**

Reinforced Soil Mass



**LOCATION SKETCH**



DATE SIGNED: 7-26-11  
EXP. DATE: 11-30-12

**Bollinger, Lach & Associates, Inc.**  
ITASCA, ILLINOIS

USER NAME =	DESIGNED SRT	REVISED -
PLOT SCALE =	CHECKED JJT	REVISED -
PLOT DATE =	DRAWN GM	REVISED -
	CHECKED JJT	REVISED -

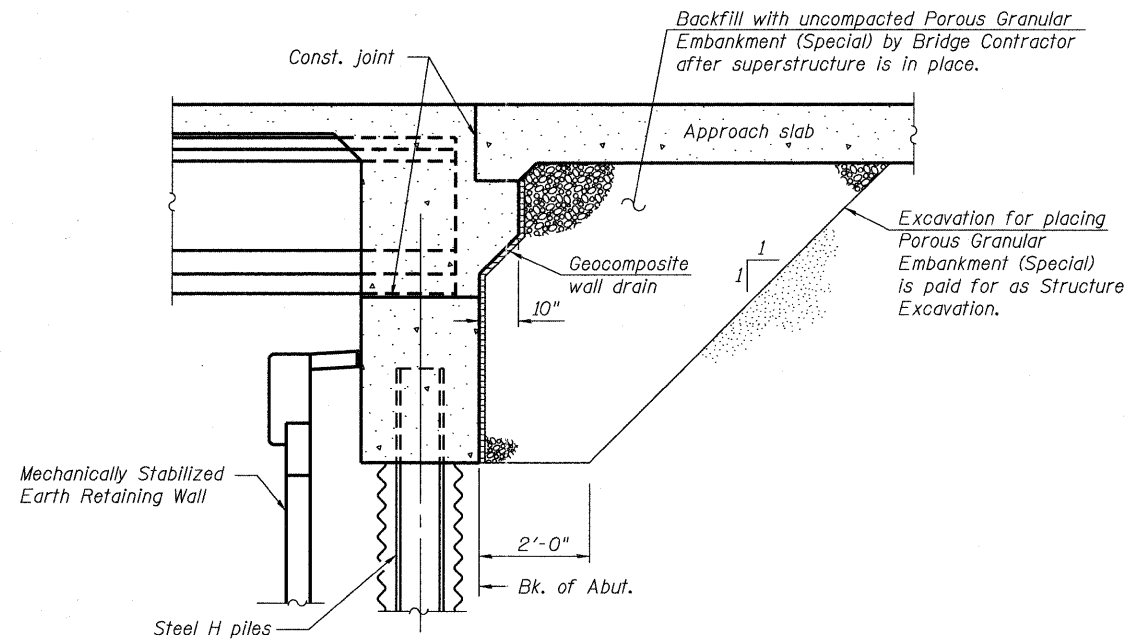
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**GENERAL PLAN  
STRUCTURE NUMBER 022-3121  
SHEET NO. 1 OF 29 SHEETS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	118
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	51	51
Protective Coat	Sq. Yd.	226	-	226
Structure Excavation	Cu. Yd.	-	754	754
Concrete Structures	Cu. Yd.	-	50.1	50.1
Concrete Superstructure	Cu. Yd.	88.3	-	88.3
Concrete Superstructure, Special	Cu. Yd.	22.5	-	22.5
Furnishing And Erecting Precast Prestressed Concrete I-Beams, 48 In.	Foot	393	-	393
Reinforcement Bars, Epoxy Coated	Pound	19,180	4,380	23,560
Bar Splicers	Each	34	-	34
Parapet Railing	Foot	280.8	-	280.8
Furnishing Steel Piles HP12x63	Foot	-	462	462
Driving Piles	Foot	-	462	462
Test Pile Steel HP12x63	Each	-	2	2
Pile Shoes	Each	-	8	8
Name Plates	Each	2	-	2
Geocomposite Wall Drain	Sq. Yd.	-	30	30
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	-	5,051	5,051
Anti-Graffiti Protection System	Sq. Ft.	1,830	4,213	6,043
Form Liner Textured Surface, Special	Sq. Ft.	1,092	4,165	5,257
Permanent Steel Sheet Piling	Sq. Ft.	-	3,980	3,980
Architectural Lettering	L. Sum	0.5	-	0.5



**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)  
(See Sheet 24 of 29 for additional details)

ST. CHARLES ROAD  
BUILT 20\_\_ BY  
VILLAGE OF LOMBARD  
SEC. 06-00151-00-BR  
STA. 24+82.21  
STR. NO. 022-3121 LOADING H20

2-Required

**NAME PLATE**

See Std. 515001

**GENERAL NOTES**

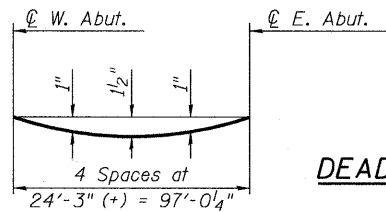
- Alternative bridge types not allowed.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Anti-Graffiti Protection System shall be applied at all locations "Form Liner Textured Surface Coating, Special" is applied to. See Sheet 18.
- Exterior faces of fascia beams shall receive Anti-Graffiti Protection System for a distance equal to 10' from the face of abutments.
- Slipforming of the parapets is not allowed.
- See Sheets 43 thru 45 of 201 for fence details.

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	General Plan
2	Total Bill of Material, General Notes, Index of Sheets & Name Plate
3	Top of Slab Elevations I
4	Top of Slab Elevations II
5	Top of Approach Slab Elevations
6	Superstructure Plan & Cross Section
7	Abutment Diaphragm and Details
8	Parapet Elevation, Superstructure Details & Bar List
9	Approach Slab Details I
10	Approach Slab Details II
11	Approach Slab Details III
12	Parapet Railing Details
13	Framing Plan, Beam Tables & Bracing
14	48" PPC I-Beam
15	48" PPC I-Beam Details
16	West Abutment- Plan, Elevation, Section
17	East Abutment- Plan, Elevation, Section
18	Architectural Treatment
19	H-Piles
20	Bar Splicer Assembly
21	West Abutment MSE Plan and Elevation, Bill of Material
22	East Abutment MSE Plan, Bill of Material
23	East Abutment MSE & Sheet Pile Wall Elevation
24	MSE Wall Sections and Foundation Details
25	Sheet Pile Wall Details
26	Boring Logs B-6 and B-7
27	Boring Logs B-7 and 10B
28	Boring Logs 109 and 110
29	Boring Logs 213 and 214

FILE NAME = \\N756-004\_Lombard - g\* bridges phase 11\cadd sheets\structural\ST CHARLES\0223121-002-CenNotes\B11.dgn

<p><b>Bollinger, Lach &amp; Associates, Inc.</b> ITASCA, ILLINOIS</p>	USER NAME = gonzalo PLOT SCALE = PLOT DATE = 7/26/2011	DESIGNED SRT CHECKED JJI DRAWN GM CHECKED JJI	REVISED - REVISED - REVISED - REVISED -	<p align="center"><b>STATE OF ILLINOIS GREAT WESTERN TRAIL ST. CHARLES ROAD</b></p>	<p align="center"><b>GENERAL NOTES, TOTAL BILL OF MATERIAL AND INDEX OF SHEETS STRUCTURE NUMBER 022-3121</b></p>	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	06-00151-00-BR DuPAGE 201 119	CONTRACT NO. 63568
	SHEET NO. 2 OF 29 SHEETS					ILLINOIS FED. AID PROJECT		



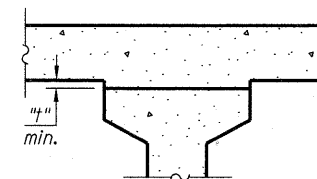
**DEAD LOAD DEFLECTION DIAGRAM**

**DEAD LOAD DEFLECTION DIAGRAM**

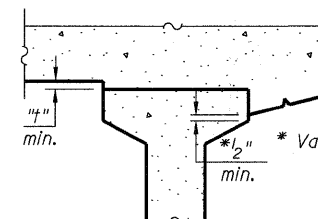
(Includes weight of concrete, excluding beams).

Note:

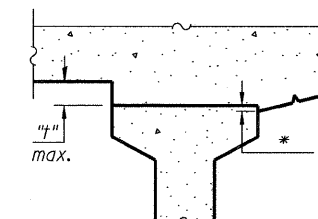
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



INTERIOR BEAMS



At Minimum Fillet

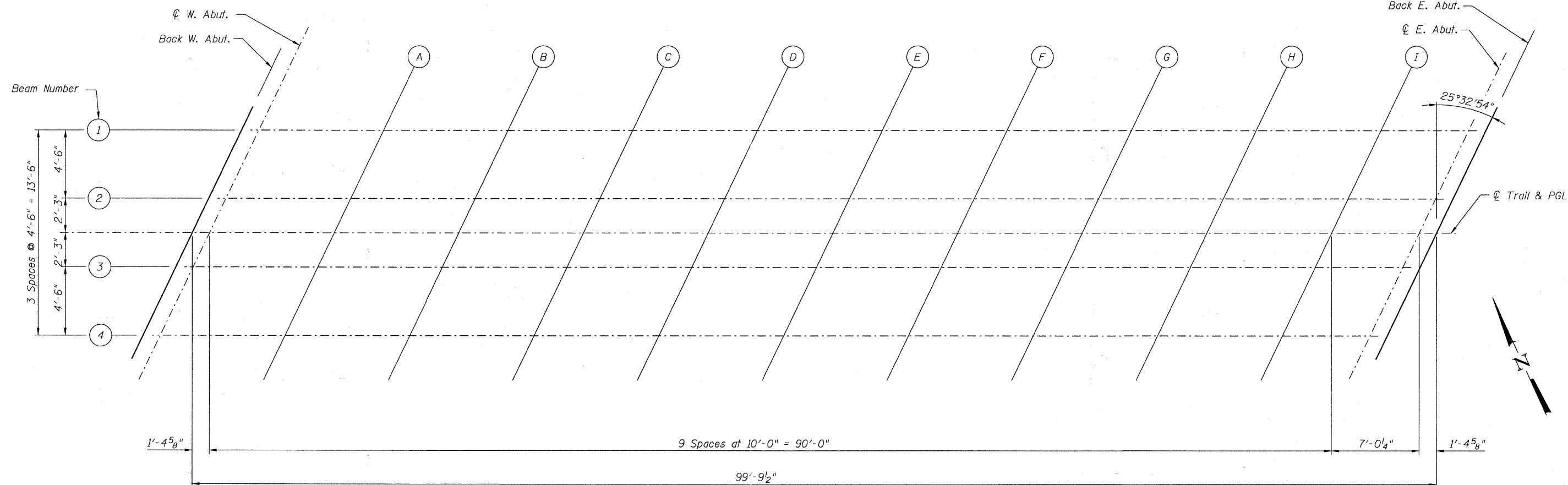


At Maximum Fillet

EXTERIOR BEAMS

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on the plans. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

**FILLET HEIGHTS**



**PLAN**

FILE NAME = s:\756-004\lombard - gwt bridges phase 1\cadd sheets\structural\ST CHARLES\0223121-003-TOP OF SLAB ELEV.dgn



USER NAME = gonzalo	DESIGNED SRT	REVISED -
PLOT SCALE =	CHECKED JJI	REVISED -
PLOT DATE = 7/26/2011	DRAWN GM	REVISED -
	CHECKED JJI	REVISED -

**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 022-3121**

SHEET NO. 3 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	120
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+35.54	6.75 Lt.	739.08	739.08
☉ W. Abut.	24+36.92	6.75 Lt.	739.04	739.04
A	24+46.92	6.75 Lt.	738.77	738.81
B	24+56.92	6.75 Lt.	738.50	738.58
C	24+66.92	6.75 Lt.	738.24	738.34
D	24+76.92	6.75 Lt.	737.97	738.09
E	24+86.92	6.75 Lt.	737.70	737.82
F	24+96.92	6.75 Lt.	737.43	737.55
G	25+06.92	6.75 Lt.	737.16	737.26
H	25+16.92	6.75 Lt.	736.90	736.96
I	25+26.92	6.75 Lt.	736.63	736.66
☉ E. Abut.	25+33.94	6.75 Lt.	736.42	736.42
Bk. E. Abut.	25+35.33	6.75 Lt.	736.38	736.38

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+33.39	2.25 Lt.	739.23	739.23
☉ W. Abut.	24+34.77	2.25 Lt.	739.19	739.19
A	24+44.77	2.25 Lt.	738.92	738.96
B	24+54.77	2.25 Lt.	738.66	738.73
C	24+64.77	2.25 Lt.	738.39	738.49
D	24+74.77	2.25 Lt.	738.12	738.24
E	24+84.77	2.25 Lt.	737.85	737.97
F	24+94.77	2.25 Lt.	737.58	737.70
G	25+04.77	2.25 Lt.	737.32	737.41
H	25+14.77	2.25 Lt.	737.05	737.11
I	25+24.77	2.25 Lt.	736.78	736.81
☉ E. Abut.	25+31.79	2.25 Lt.	736.59	736.59
Bk. E. Abut.	25+33.18	2.25 Lt.	736.54	736.54

**☉ TRAIL & P.G.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+32.31	0.00	739.30	739.30
☉ W. Abut.	24+33.70	0.00	739.27	739.27
A	24+43.70	0.00	739.00	739.04
B	24+53.70	0.00	738.73	738.81
C	24+63.70	0.00	738.46	738.56
D	24+73.70	0.00	738.20	738.31
E	24+83.70	0.00	737.93	738.05
F	24+93.70	0.00	737.66	737.77
G	25+03.70	0.00	737.39	737.49
H	25+13.70	0.00	737.12	737.19
I	25+23.70	0.00	736.86	736.88
☉ E. Abut.	25+30.71	0.00	736.67	736.67
Bk. E. Abut.	25+32.10	0.00	736.62	736.62

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+31.23	2.25 Rt.	739.29	739.29
☉ W. Abut.	24+32.62	2.25 Rt.	739.25	739.25
A	24+42.62	2.25 Rt.	738.98	739.02
B	24+52.62	2.25 Rt.	738.71	738.79
C	24+62.62	2.25 Rt.	738.45	738.55
D	24+72.62	2.25 Rt.	738.18	738.30
E	24+82.62	2.25 Rt.	737.91	738.03
F	24+92.62	2.25 Rt.	737.64	737.76
G	25+02.62	2.25 Rt.	737.37	737.47
H	25+12.62	2.25 Rt.	737.11	737.17
I	25+22.62	2.25 Rt.	736.84	736.86
☉ E. Abut.	25+29.64	2.25 Rt.	736.65	736.65
Bk. E. Abut.	25+31.02	2.25 Rt.	736.61	736.61

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+29.08	6.75 Rt.	739.25	739.25
☉ W. Abut.	24+30.47	6.75 Rt.	739.21	739.21
A	24+40.47	6.75 Rt.	738.95	738.98
B	24+50.47	6.75 Rt.	738.68	738.75
C	24+60.47	6.75 Rt.	738.41	738.51
D	24+70.47	6.75 Rt.	738.14	738.26
E	24+80.47	6.75 Rt.	737.87	738.00
F	24+90.47	6.75 Rt.	737.61	737.72
G	25+00.47	6.75 Rt.	737.34	737.43
H	25+10.47	6.75 Rt.	737.07	737.13
I	25+20.47	6.75 Rt.	736.80	736.83
☉ E. Abut.	25+27.49	6.75 Rt.	736.61	736.61
Bk. E. Abut.	25+28.87	6.75 Rt.	736.58	736.58

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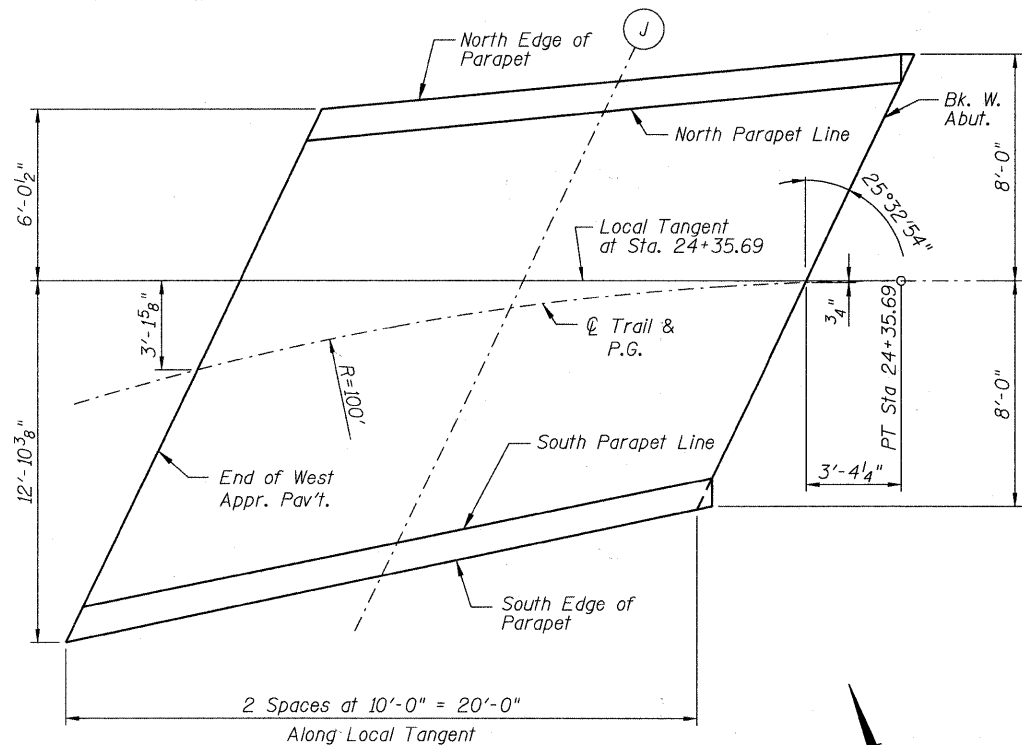
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**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 ST. CHARLES ROAD**

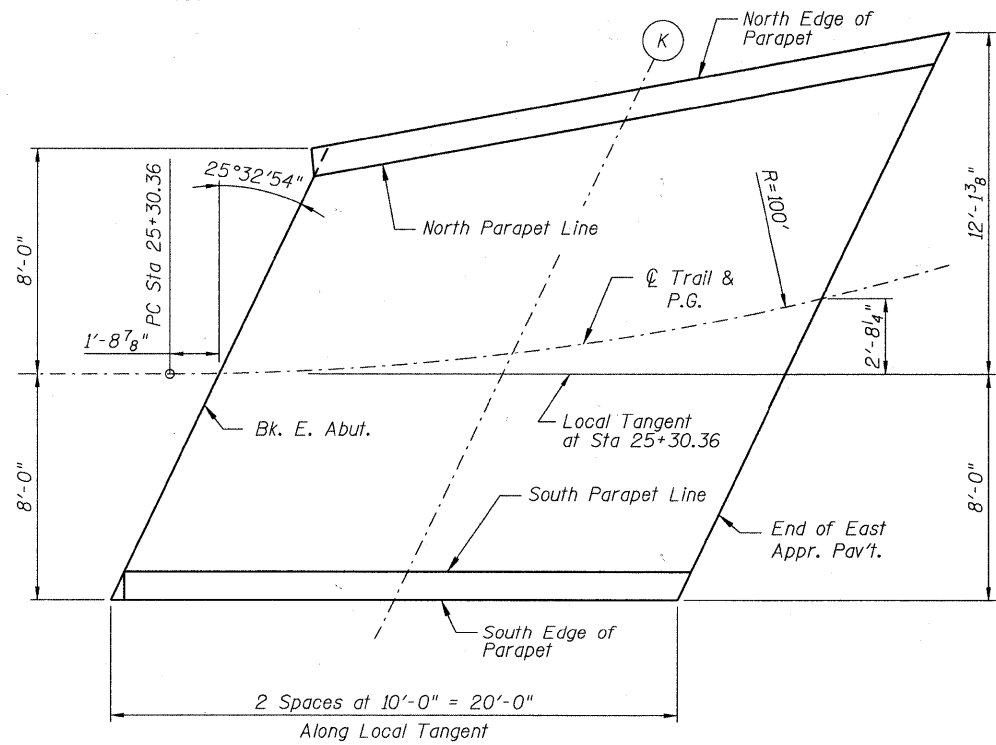
**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 022-3121**

SHEET NO. 4 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR		201	121
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				



**PLAN**  
(West Approach)



**PLAN**  
(East Approach)

**NORTH EDGE OF PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	24+16.63	8.00 LT	739.66
J	24+26.39	7.51 LT	739.41
Bk. of W. Abut.	24+36.16	8.00 LT	739.14

**NORTH PARAPET LINE**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	24+15.94	7.00 LT	739.60
J	24+25.81	6.48 LT	739.34
Bk. of W. Abut.	24+35.69	7.00 LT	739.07

**C TRAIL & P.G.**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	24+10.58	0.00	739.89
J	24+21.84	0.00	739.59
Bk. of W. Abut.	24+32.31	0.00	739.31

**SOUTH PARAPET LINE**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	24+04.10	7.00 RT	739.92
J	24+16.31	7.57 RT	739.58
Bk. of W. Abut.	24+27.84	6.76 RT	739.27

**SOUTH EDGE OF PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	24+32.31	8.00 RT	740.03
J	24+15.46	8.26 RT	739.69
Bk. of W. Abut.	24+27.84	7.83 RT	739.37

**WEST APPROACH**

**NORTH EDGE OF PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of E. Abut.	25+36.47	7.94 LT	736.42
K	25+48.60	8.60 LT	736.01
End E. Appr. Pav't.	25+60.72	7.91 LT	735.62

**NORTH PARAPET LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of E. Abut.	25+35.82	6.86 LT	736.36
K	25+47.81	7.60 LT	735.96
End E. Appr. Pav't.	25+59.82	7.00 LT	735.57

**C TRAIL & P.G.**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of E. Abut.	25+32.10	0.00	736.62
K	25+42.48	0.00	736.28
End E. Appr. Pav't.	25+53.52	0.00	735.92

**SOUTH PARAPET LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of E. Abut.	25+28.75	7.00 RT	736.58
K	25+38.19	7.33 RT	736.27
End E. Appr. Pav't.	25+47.39	8.57 RT	735.92

**SOUTH EDGE OF PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
Bk. of E. Abut.	25+28.28	8.00 RT	736.67
K	25+37.68	8.29 RT	736.37
End E. Appr. Pav't.	25+46.81	9.47 RT	736.05

**EAST APPROACH**

FILE NAME = \\1755-004-Lombard - get bridges phase 11\cadd sheets\structure\ST CHARLES\0223121-005-TOP OF APPROX SLAB ELEVATIONS.dgn

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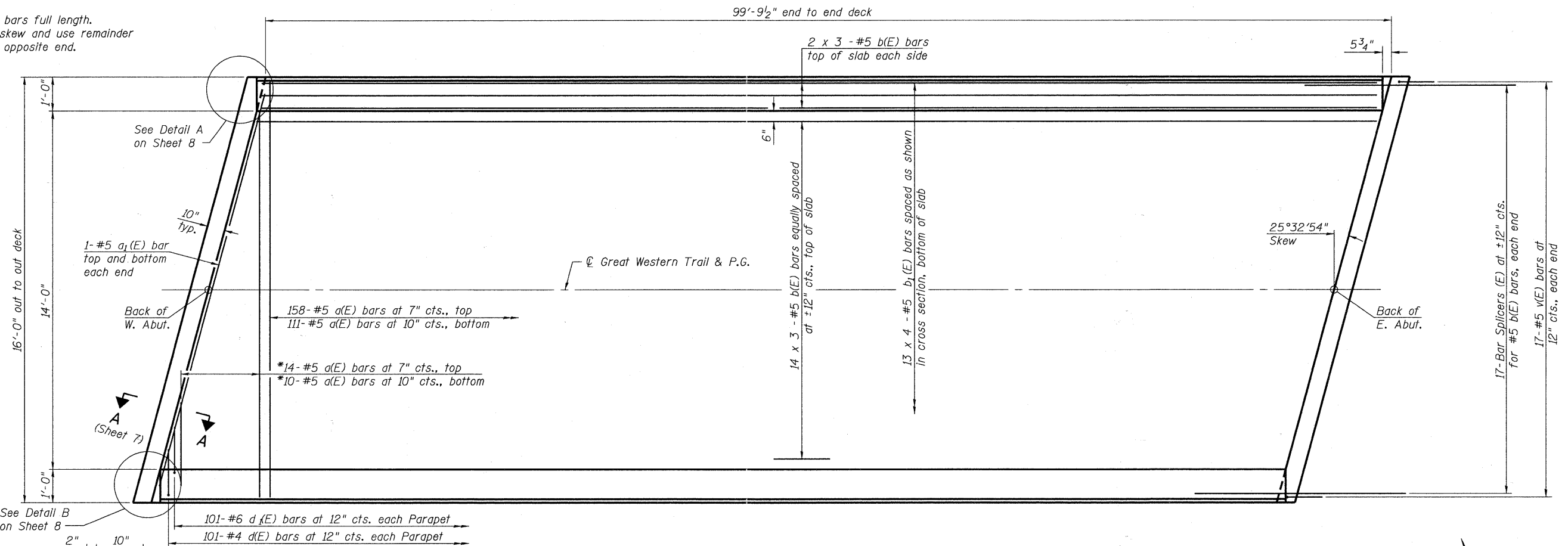
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GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

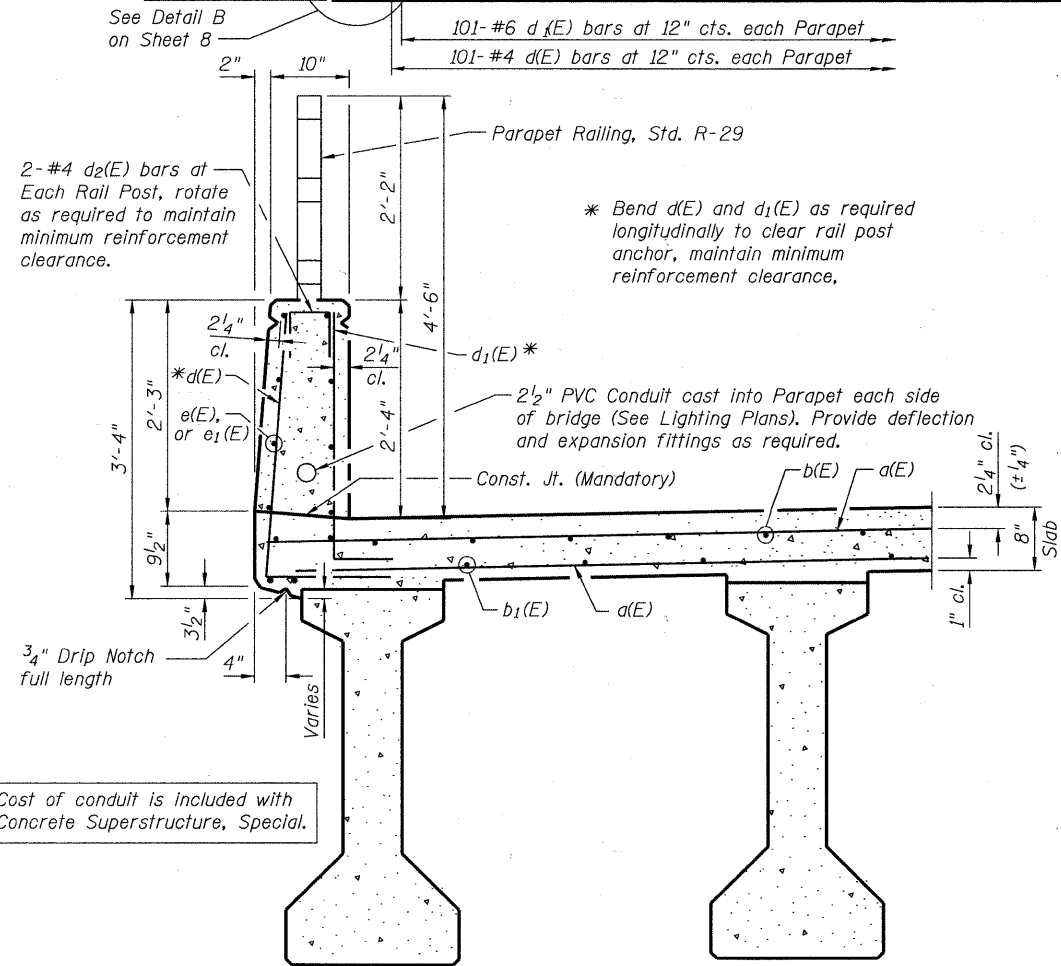
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STRUCTURE NO. 022-3121**  
SHEET NO. 5 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	122
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	

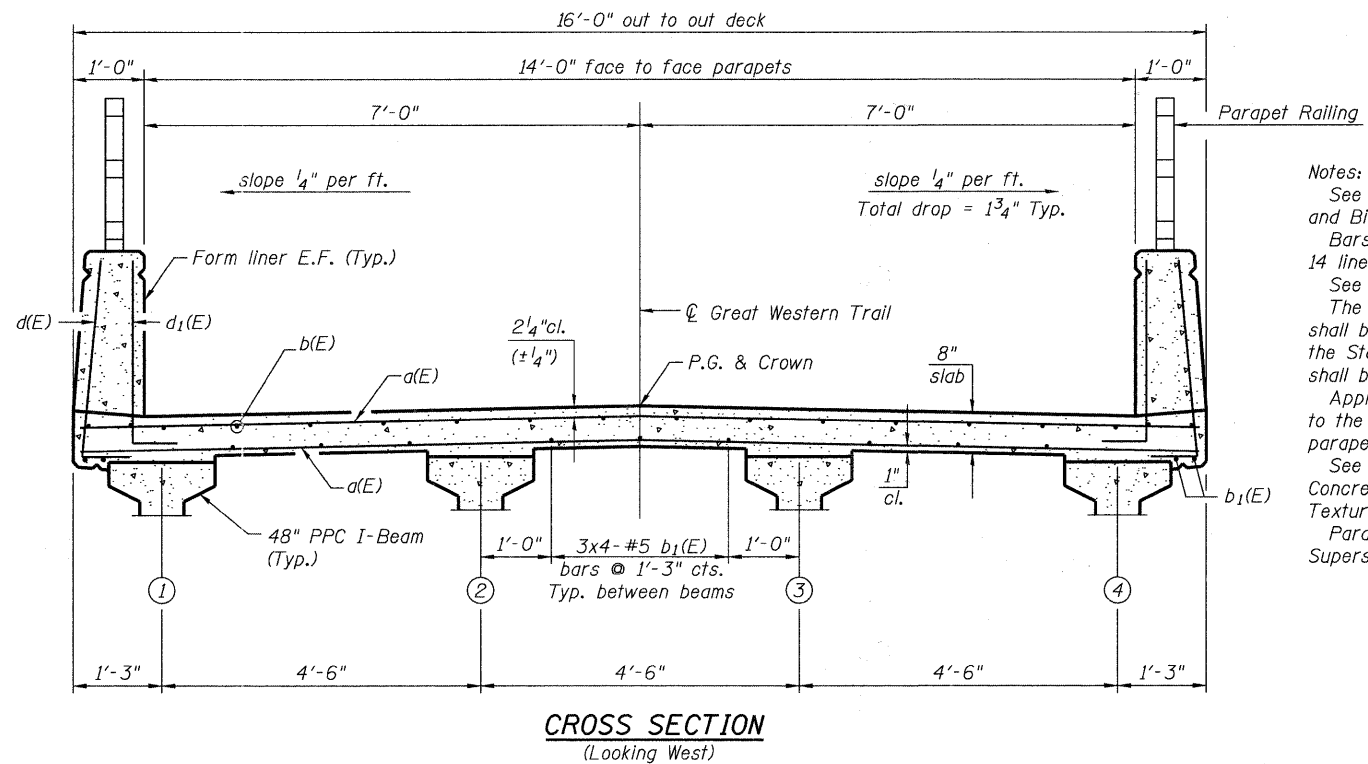
Order a(E) bars full length.  
Cut to fit skew and use remainder  
of bars in opposite end.



PLAN



SECTION THRU PARAPET



CROSS SECTION  
(Looking West)

Notes:  
See Sheet 8 of 29 for superstructure details and Bill of Material.  
Bars indicated thus 14 x 3-#5 etc. indicates 14 lines of bars with 3 lengths per line.  
See Sheet 8 of 29 for parapet reinforcement.  
The top surface of the deck between parapets shall be finished according to Article 423.06 of the Standard Specifications, except the surface shall be divided by grooves.  
Application of Protective Coat shall be limited to the top surface of the bridge deck between parapets.  
See Architectural Treatment sheet for limits of Concrete Superstructure, Special and Form Liner Textured Surface, Special.  
Parapet concrete to be paid for as Concrete Superstructure, Special.

**MIN. BAR LAP**  
#5 bar = 3'-3"

FILE NAME = s:\7556-084.Lombard - gwt.Bridges phase 1\Road sheets\structural\ST CHARLES.0223121-006-SUP\_STRUC\_PLAN.dgn

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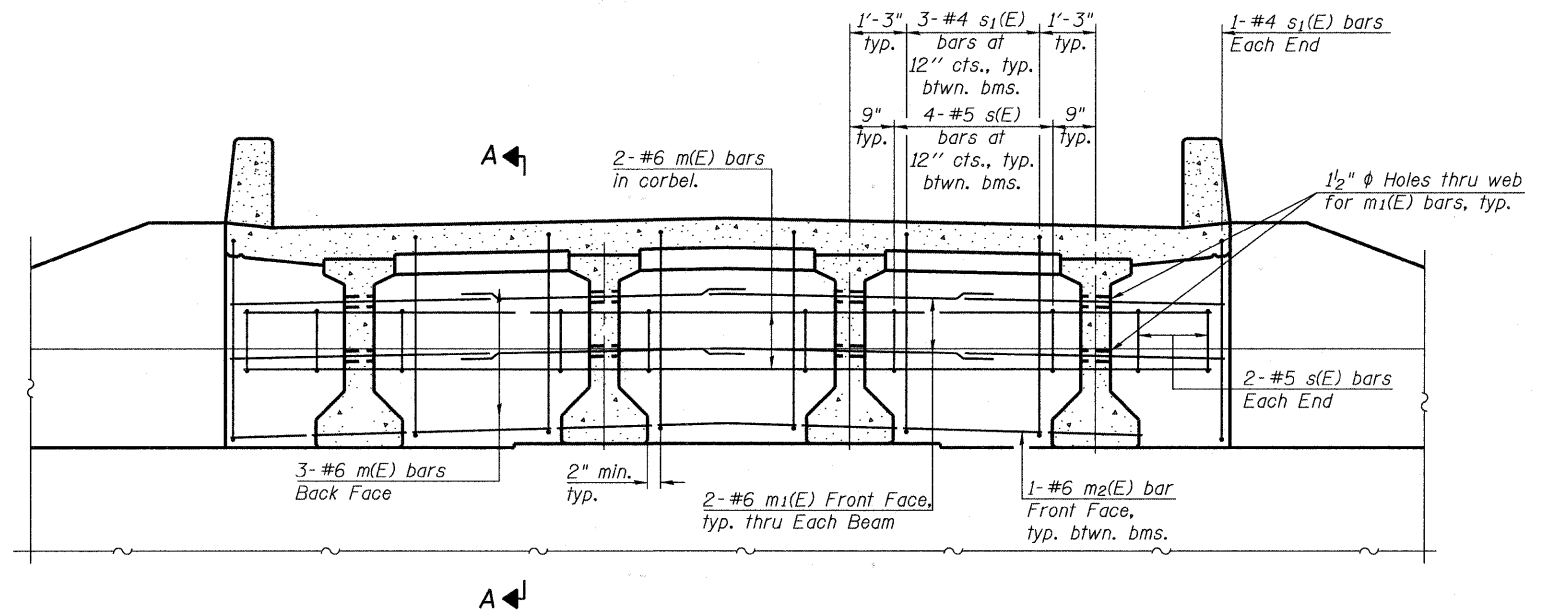
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**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**SUPERSTRUCTURE PLAN AND SECTION  
STRUCTURE NO. 022-3121**

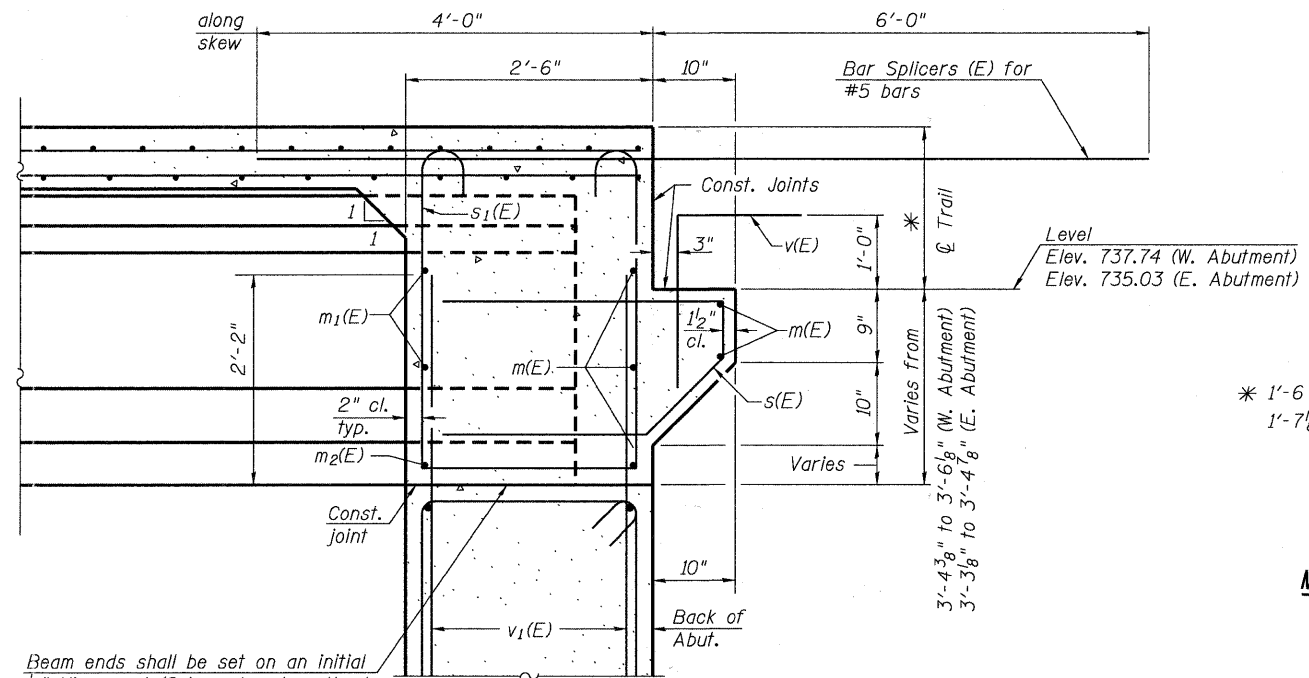
SHEET NO. 6 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	123
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



**DIAPHRAGM ELEVATION AT ABUTMENT**

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 29.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 29.  
 For details of bars s(E) and s1(E), see sheet 8 of 29.  
 The s(E) and s1(E) bars shall be placed parallel to the beams.  
 Spacing for these bars shall be at right angles to the beams.



Beam ends shall be set on an initial 1/2" Min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

**SECTION A-A**

Dimensions at right angles to abutment, except as shown.

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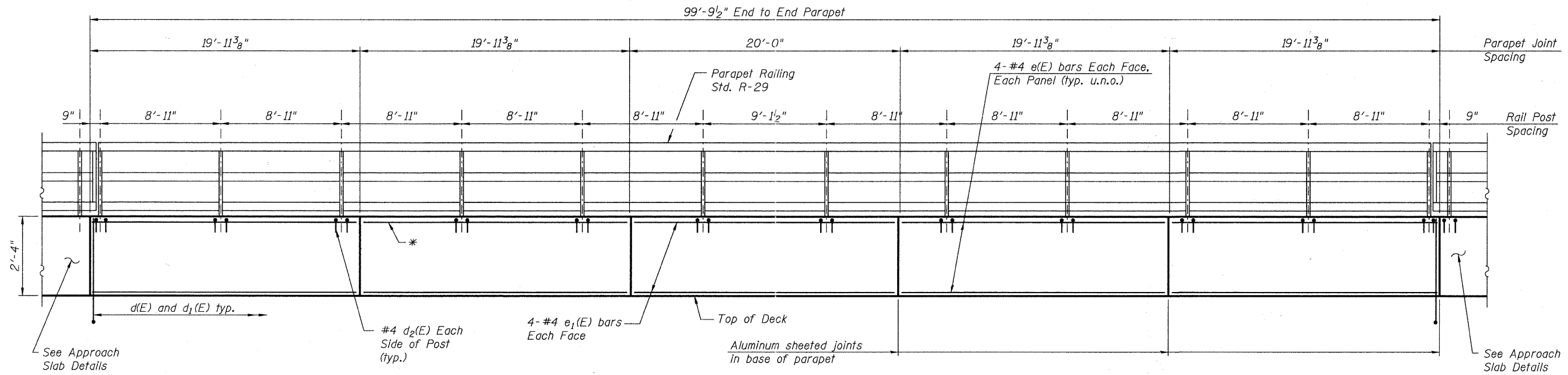
**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 ST. CHARLES ROAD**

**INTEGRAL ABUTMENT DIAPHRAGM DETAILS  
 STRUCTURE NO. 022-3121**

SHEET NO. 7 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	124
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				



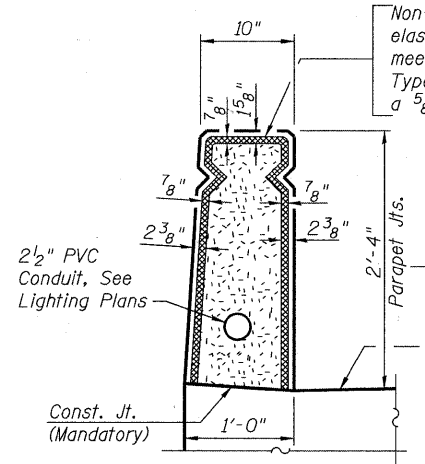


**INSIDE ELEVATION OF PARAPET**

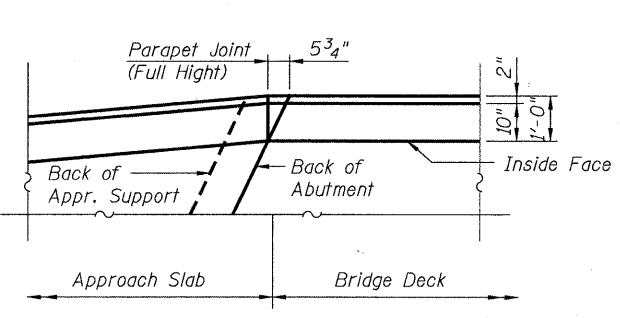
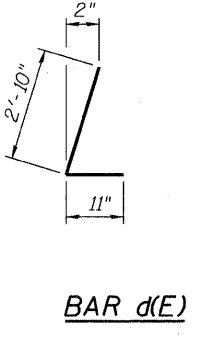
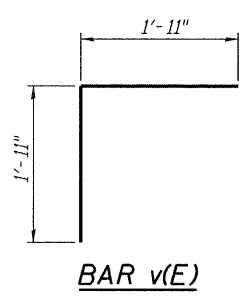
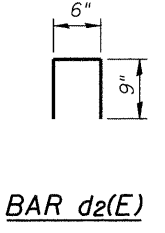
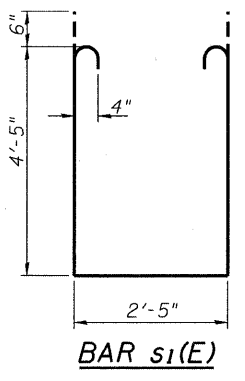
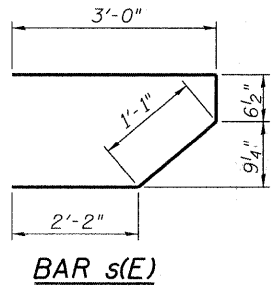
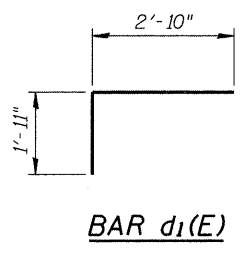
\* Locate top row of longitudinal parapet reinforcement clear of rail post anchors, maintain minimum reinforcement clearance.

**SUPERSTRUCTURE BILL OF MATERIAL**

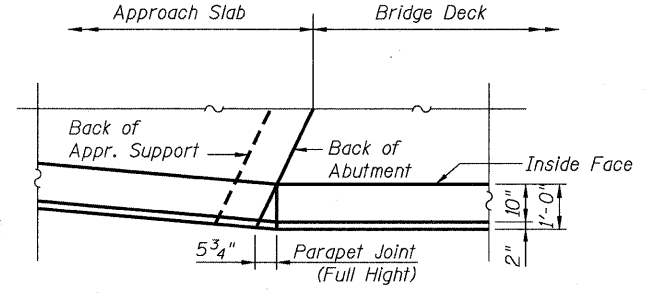
Bar	No.	Size	Length	Shape
a(E)	293	#5	15'-8"	—
a1(E)	4	#5	17'-5"	—
b(E)	54	#5	35'-6"	—
b1(E)	52	#5	27'-5"	—
d(E)	202	#4	3'-9"	↘
d1(E)	202	#6	4'-9"	↘
d2(E)	48	#4	2'-0"	□
e(E)	64	#4	19'-7"	—
e1(E)	16	#4	19'-8"	—
m(E)	10	#6	17'-5"	—
m1(E)	16	#6	8'-4"	—
m2(E)	6	#6	2'-7"	—
s(E)	32	#5	6'-10"	↘
s1(E)	22	#4	12'-3"	□
v(E)	34	#5	3'-10"	↘
Reinforcement Bars, Epoxy Coated		Lbs.	12,230	
Concrete Superstructure		Cu. Yd.	54.7	
Anti-Graffiti Protection System		Sq. Ft.	1,358	
Protective Coat		Sq. Yd.	156	
Form Liner Textured Surface, Special		Sq. Ft.	736	
Concrete Superstructure, Special		Cu. Yd.	15.6	



**PARAPET JOINT DETAILS**



**DETAIL A**



**DETAIL B**

FILE NAME = s:\756-004.lombard - gwt\_bridges\_phase 11\cadd\_sheets\structural\ST CHARLES\0223121-008-PARAPET ELEV.dgn

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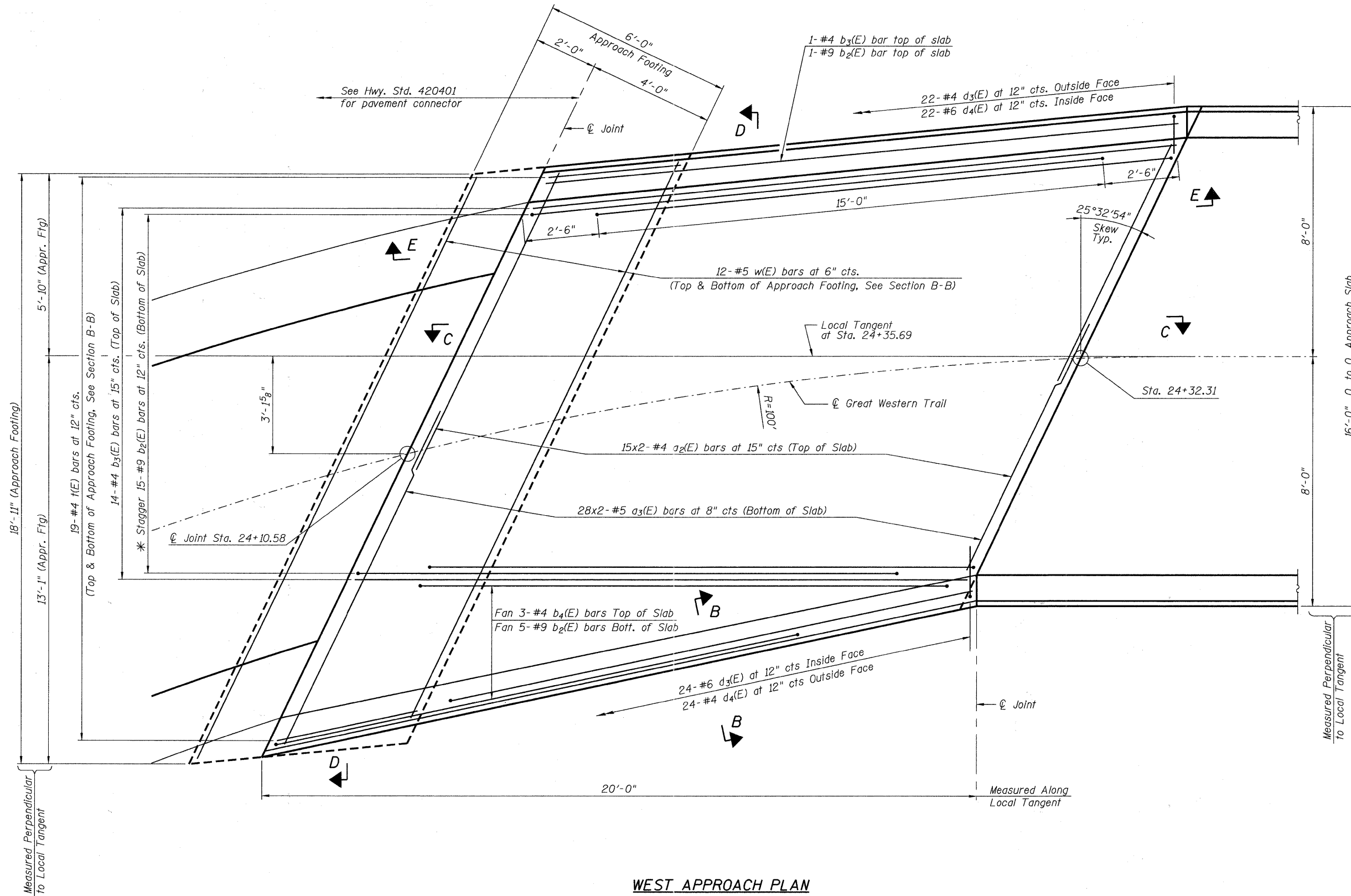
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**PARAPET ELEVATION AND SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 022-3121**

SHEET NO. 8 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	125
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	

Note:  
See sheet 11 of 29 for Sections C-C & D-D and View E-E.



**WEST APPROACH PLAN**

\* Tilt #9 b<sub>2</sub>(E) bars required to maintain clearance and  
Flare b<sub>2</sub>(E) bars as required to meet edge of slab clearance.

FILE NAME = n:\y756-004\_lombard - gwt\_bridges phase 11\cadd sheets\structural\ST CHARLES\0223121-005-WEST APPROACH SLAB PLAN.dgn

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PLOT DATE = 7/26/2011

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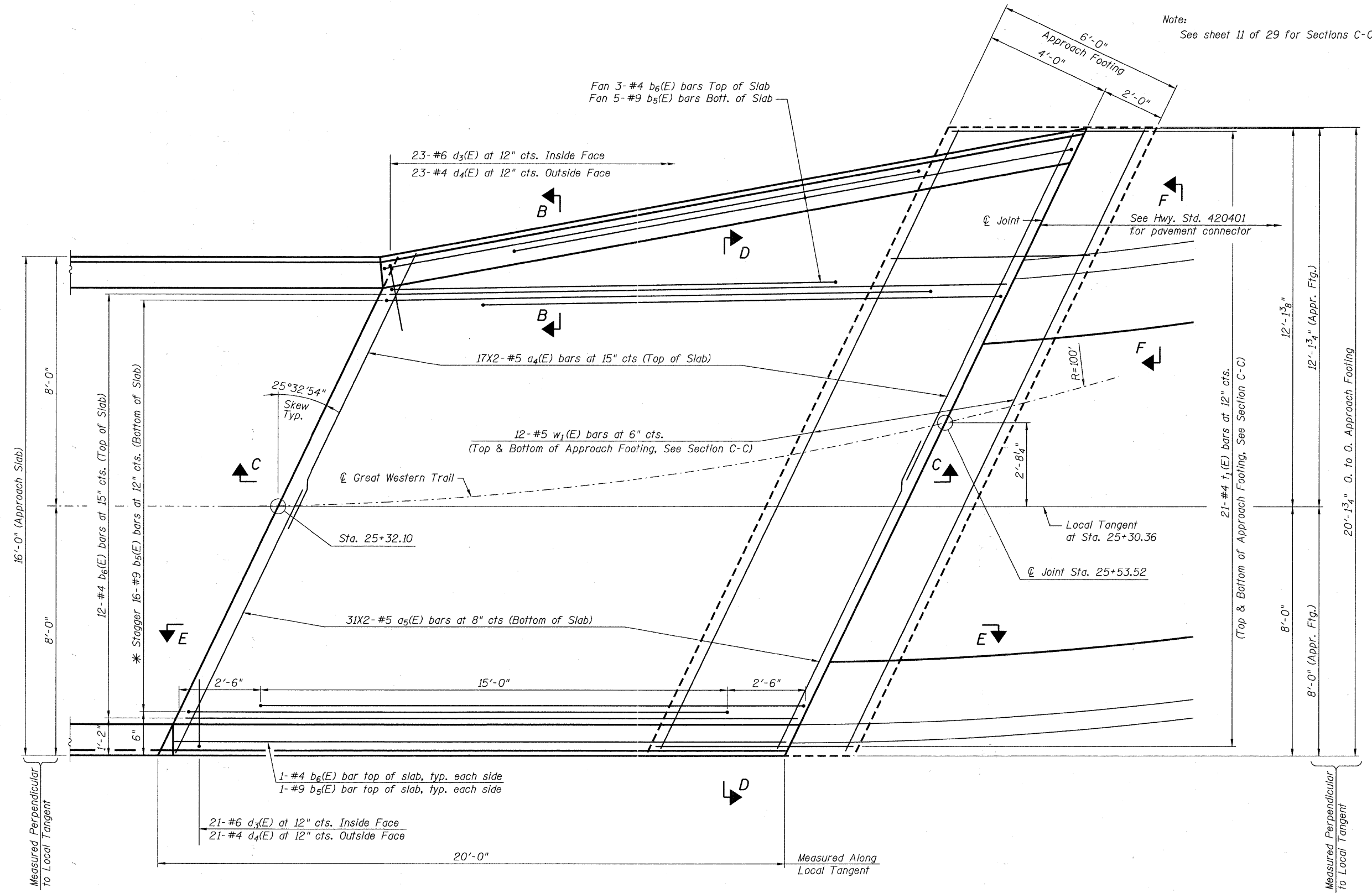
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**WEST APPROACH SLAB PLAN  
STRUCTURE NO. 022-3121**

SHEET NO. 9 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

FILE NAME = h:\v756-2004\_tombard - g\*4\_bridges\phase 11\load sheets\structural\ST CHARLES\0223121-010-EAST APPROACH SLAB PLAN.dgn



**EAST APPROACH PLAN**

\* Tilt #9 b5(E) bars required to maintain clearance.

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PLOT SCALE =
PLOT DATE = 7/26/2011

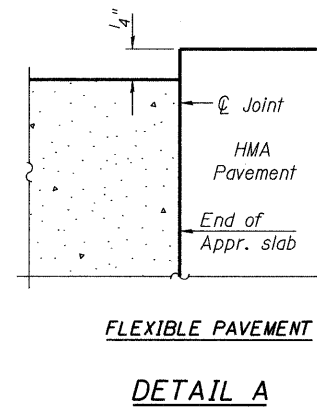
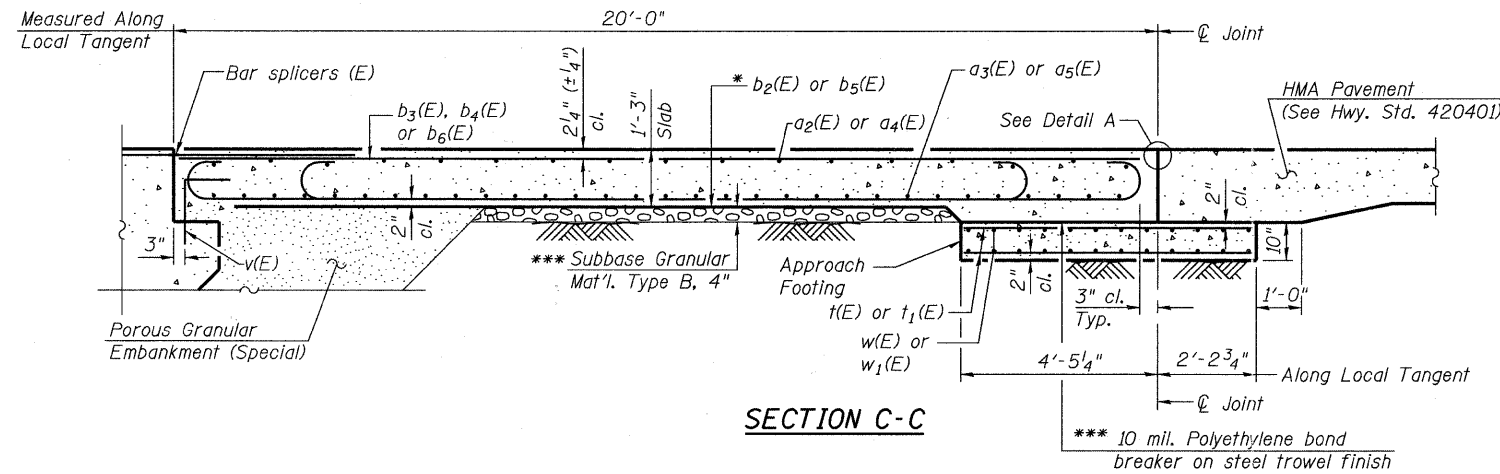
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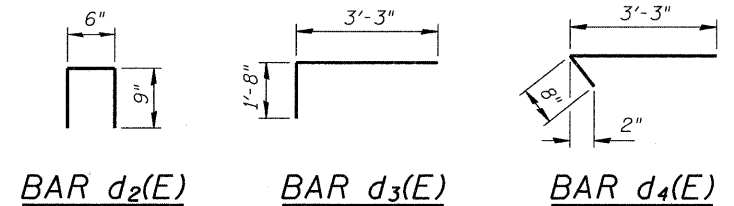
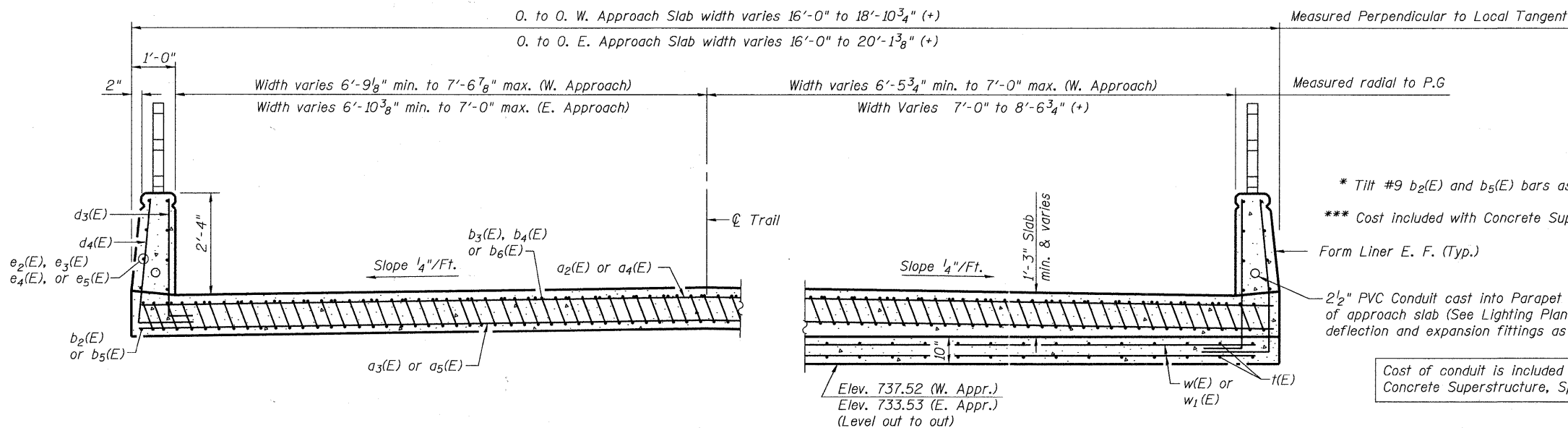
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**EAST APPROACH SLAB PLAN  
STRUCTURE NO. 022-3121**  
SHEET NO. 10 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	127
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				



Notes:  
 Approach slab concrete shall be paid for as Concrete Superstructure. Parapet concrete to be paid for as Concrete Superstructure, Special. Approach footing concrete shall be paid for as Concrete Structures. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated. For v(E) bar details, see sheet 8 of 29. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. For bar splicer details, see sheet 20 of 29. Cost of excavation for approach footing included with Concrete Structures. For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 29. For additional parapet details, see sheet 8 of 29. The top surface of the approach slab between parapets shall be finished according to Article 423.06 of the Standard Specifications, except the surface shall be divided by grooves. Application of Protective Coat shall be limited to the top surface of the approach slab between parapets. See Architectural Treatment sheet for limits of Concrete Superstructure, Special and Form Liner Textured Surface, Special.

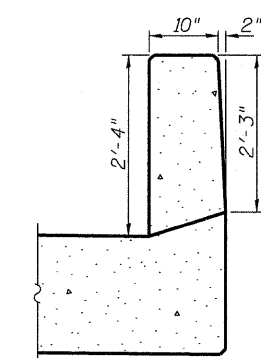


\* Tilt #9 b2(E) and b5(E) bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.

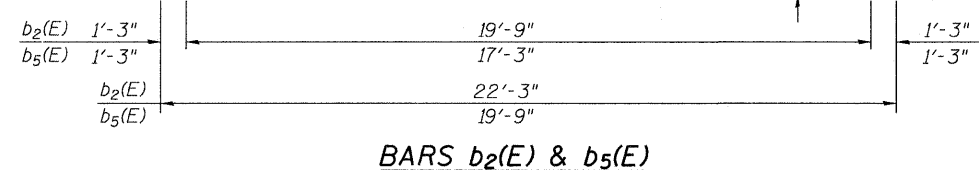
**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	30	#4	11'-1"	—
a3(E)	56	#5	11'-3"	—
a4(E)	34	#4	12'-4"	—
a5(E)	62	#5	13'-0"	—
b2(E)	20	#9	22'-3"	—
b3(E)	14	#4	19'-8"	—
b4(E)	3	#4	22'-4"	—
b5(E)	21	#9	19'-9"	—
b6(E)	15	#4	19'-8"	—
d2(E)	24	#4	2'-0"	—
d3(E)	90	#6	4'-11"	—
d4(E)	90	#4	3'-11"	—
e2(E)	4	#4	19'-8"	—
e3(E)	4	#4	22'-4"	—
e4(E)	4	#4	20'-9"	—
e5(E)	4	#4	21'-11"	—
t(E)	38	#4	6'-4"	—
t1(E)	42	#4	6'-3"	—
w(E)	24	#5	20'-7"	—
w1(E)	24	#4	22'-0"	—
Concrete Superstructure		Cu. Yd.	33.6	
Concrete Superstructure, Special		Cu. Yd.	6.9	
Concrete Structures		Cu. Yd.	8.1	
Reinforcement Bars, Epoxy Coated		Pound	6,950	
Anti-Graffiti Protection System		Sq. Ft.	472	
Protective Coat		Sq. Yd.	70	
Form Liner Textured Surface, Special		Sq. Ft.	356	

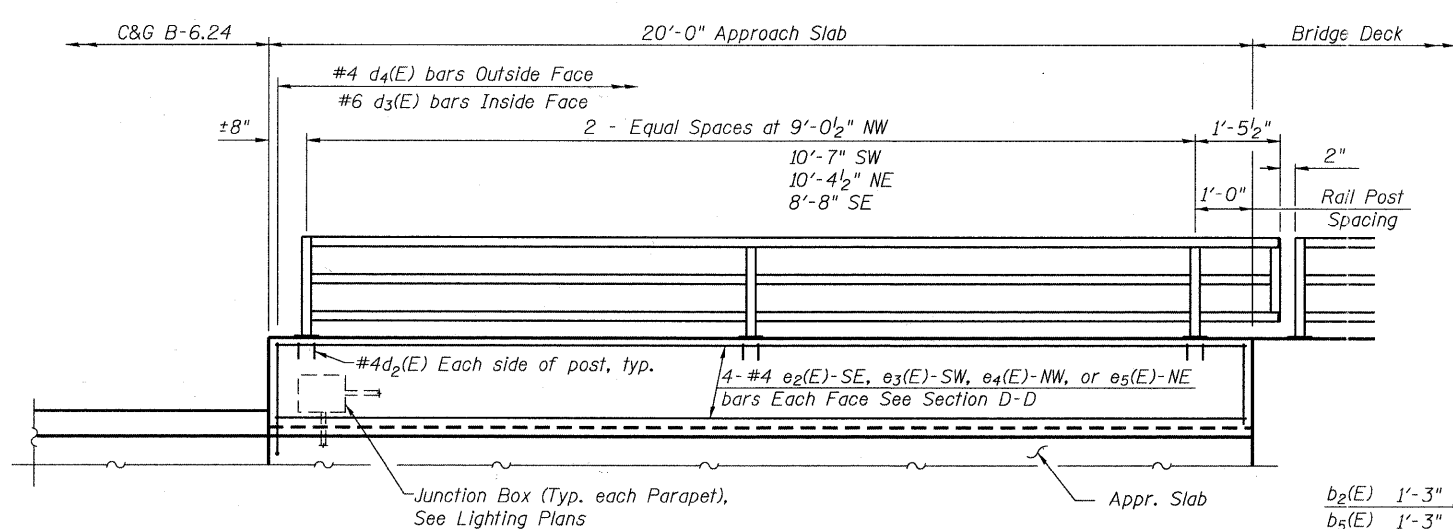
Cost of conduit is included with Concrete Superstructure, Special.



VIEW B-B

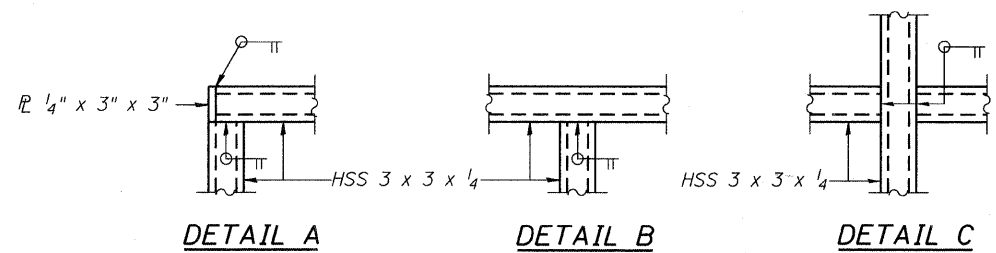


BARS b2(E) & b5(E)

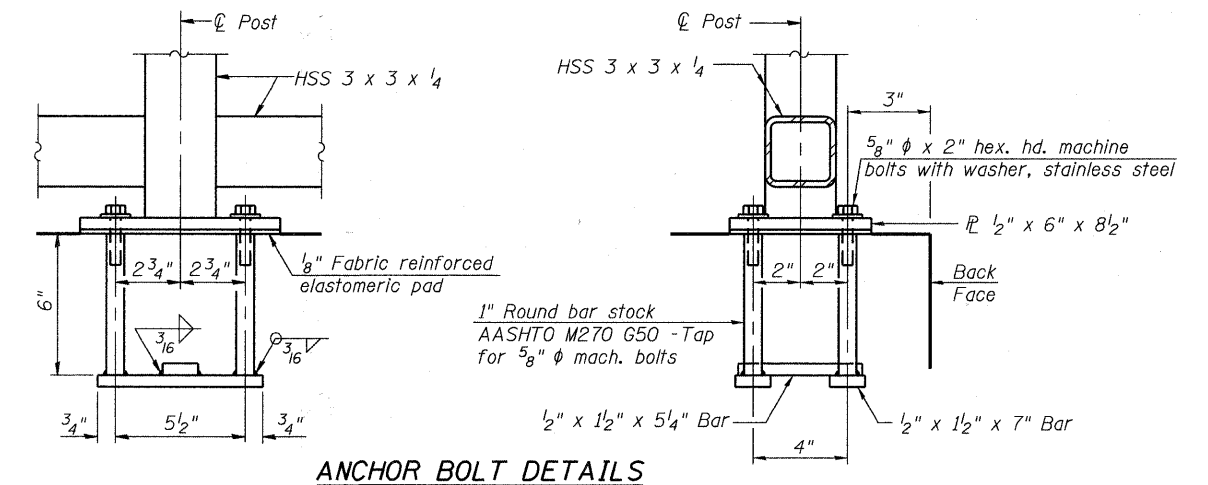
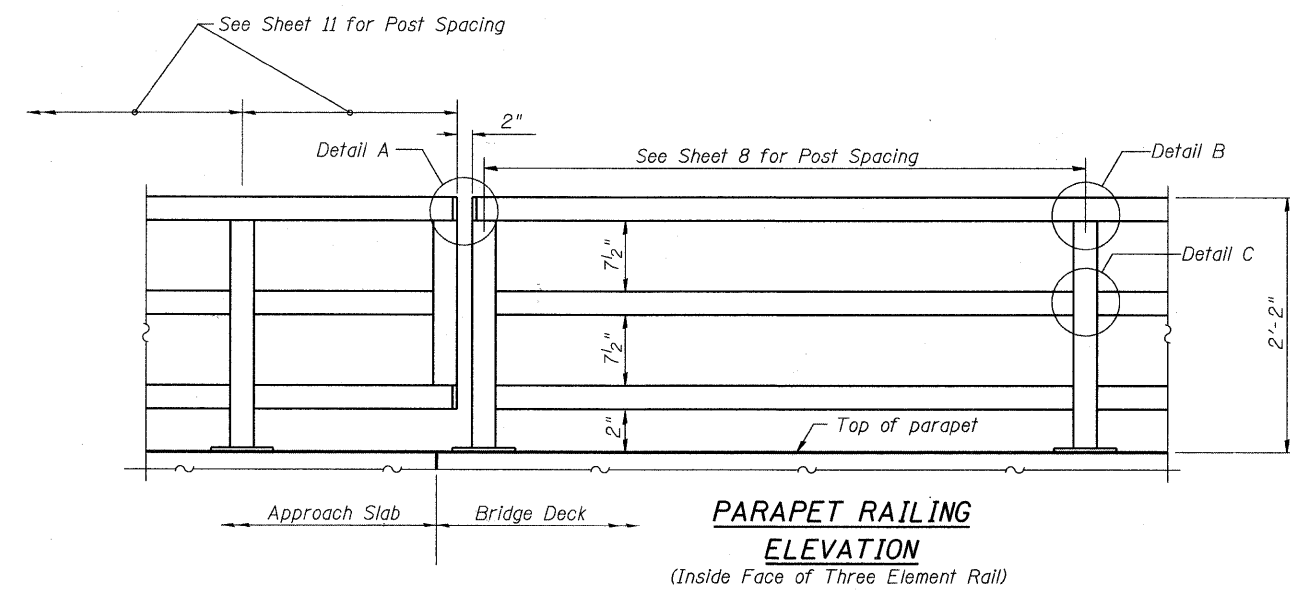
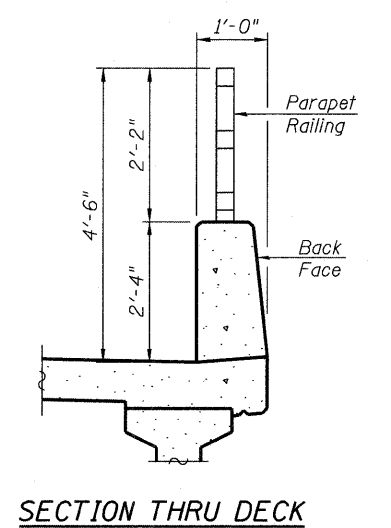
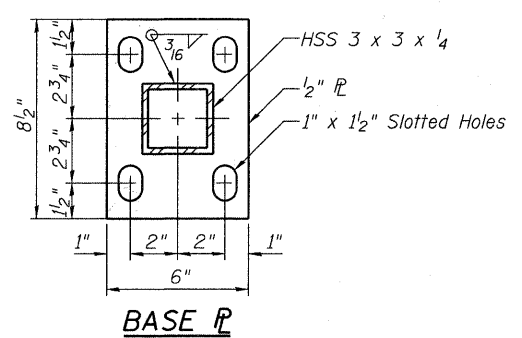
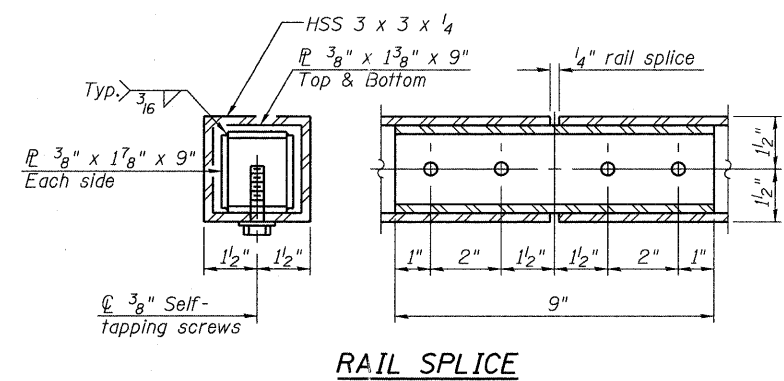


VIEW E-E

FILE NAME = w:\756-004.lombard - gwt\_bridges phase 11\locad sheets\structural\ST CHARLES\0223121-011-APPROACH SLAB DETAILS IL.dgn



Notes:  
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8\"/>

**BILL OF MATERIAL**

Item	Unit	Quantity
Parapet Railing	Foot	280.8

FILE NAME = s:\756-004\_lombard - get bridges phase 1\vaadd sheets\structure\1\ST\_CHARLES\0223121-02-PARAPET\_RAILING.dgn

**Bollinger, Lach & Associates, Inc.**  
ITASCA, ILLINOIS

USER NAME = gonzalo	DESIGNED SRT	REVISD -
PLOT SCALE =	CHECKED JJI	REVISD -
PLOT DATE = 7/26/2011	DRAWN GM	REVISD -
	CHECKED JJI	REVISD -

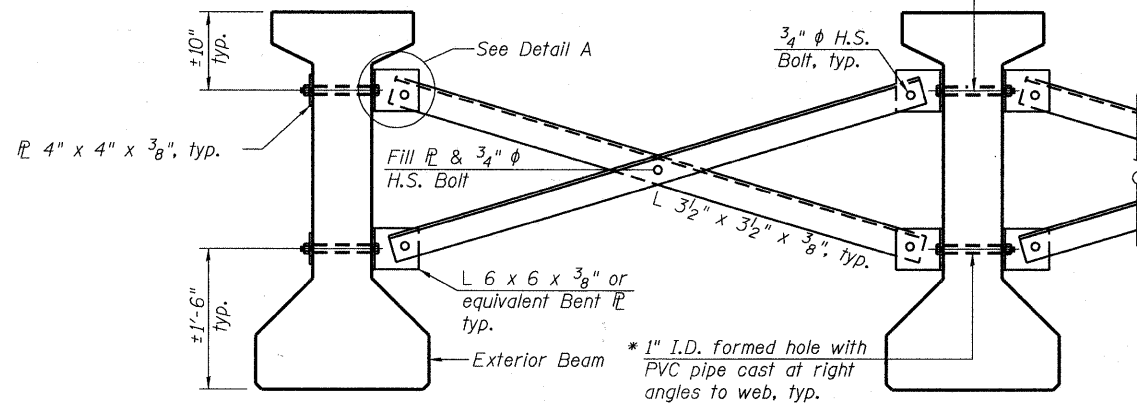
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**PARAPET RAILING DETAILS  
STRUCTURE NO. 022-3121**  
SHEET NO. 12 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	129
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

\* Fabricator shall locate to miss strands within permissible tolerances.

$\frac{3}{4}$ "  $\phi$  A307 Bolts with lock nuts., typ.  
Bolts through the concrete web shall be tightened to snug tight only.



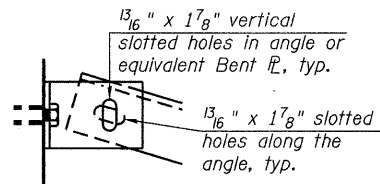
**Notes:**

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes.

All holes shall be  $\frac{5}{16}$ "  $\phi$  unless otherwise noted.  $\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.

All bolts shall be galvanized according to AASHTO M232. Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.



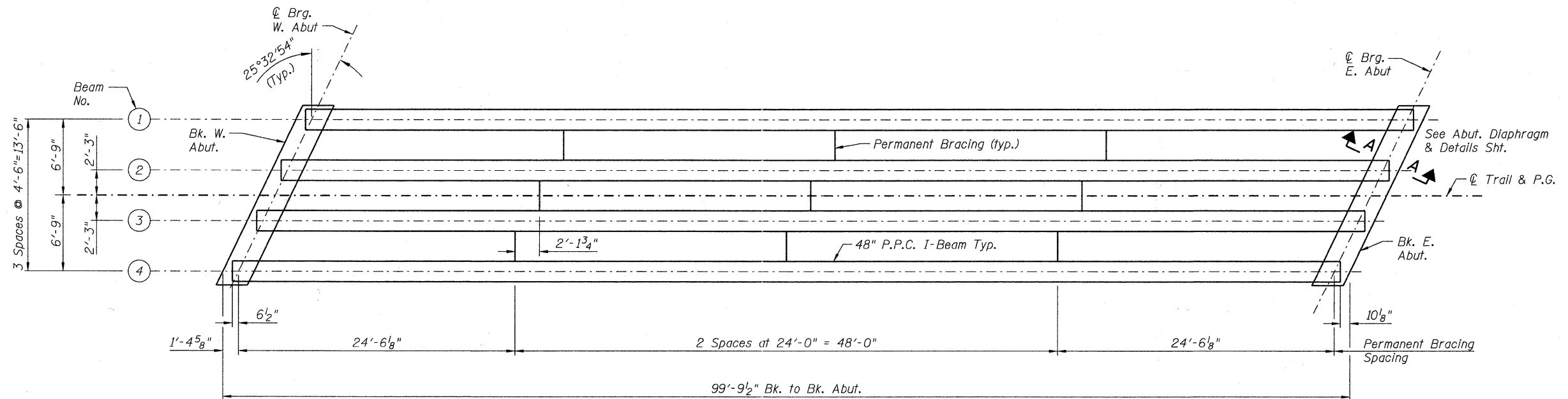
**DETAIL A**

INTERIOR BEAM MOMENT TABLE		
0.5 Sp. 1		
I	(in <sup>4</sup> )	144,118
I'	(in <sup>4</sup> )	363,955
S <sub>b</sub>	(in <sup>3</sup> )	6,834
S <sub>b</sub> '	(in <sup>3</sup> )	11,064
S <sub>t</sub>	(in <sup>3</sup> )	5,355
S <sub>t</sub> '	(in <sup>3</sup> )	24,096
DC1	(k/')	1,074
M <sub>DC1</sub>	(k)	1,261
DC2	(k/')	0.190
M <sub>DC2</sub>	(k)	224
DW	(k/')	0.088
M <sub>DW</sub>	(k)	104
M <sub>L</sub>	(k)	400

INTERIOR BEAM REACTION TABLE		
Abut.		
R <sub>DC1</sub>	(k)	51.5
R <sub>DC2</sub>	(k)	9.2
R <sub>DW</sub>	(k)	1.5
R <sub>L</sub>	(k)	30.2
R <sub>Total</sub>	(k)	92.4

I: Non-composite moment of inertia of beam section (in<sup>4</sup>).  
I': Composite moment of inertia of beam section (in<sup>4</sup>).  
S<sub>b</sub>: Non-composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
S<sub>b</sub>': Composite section modulus for the bottom fiber of the prestressed beam (in<sup>3</sup>).  
S<sub>t</sub>: Non-composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
S<sub>t</sub>': Composite section modulus for the top fiber of the prestressed beam (in<sup>3</sup>).  
DC1: Un-factored non-composite dead load (kips/ft.).  
M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).  
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
M<sub>L</sub>: Un-factored live load moment without dynamic load allowance (impact) (kip-ft.).

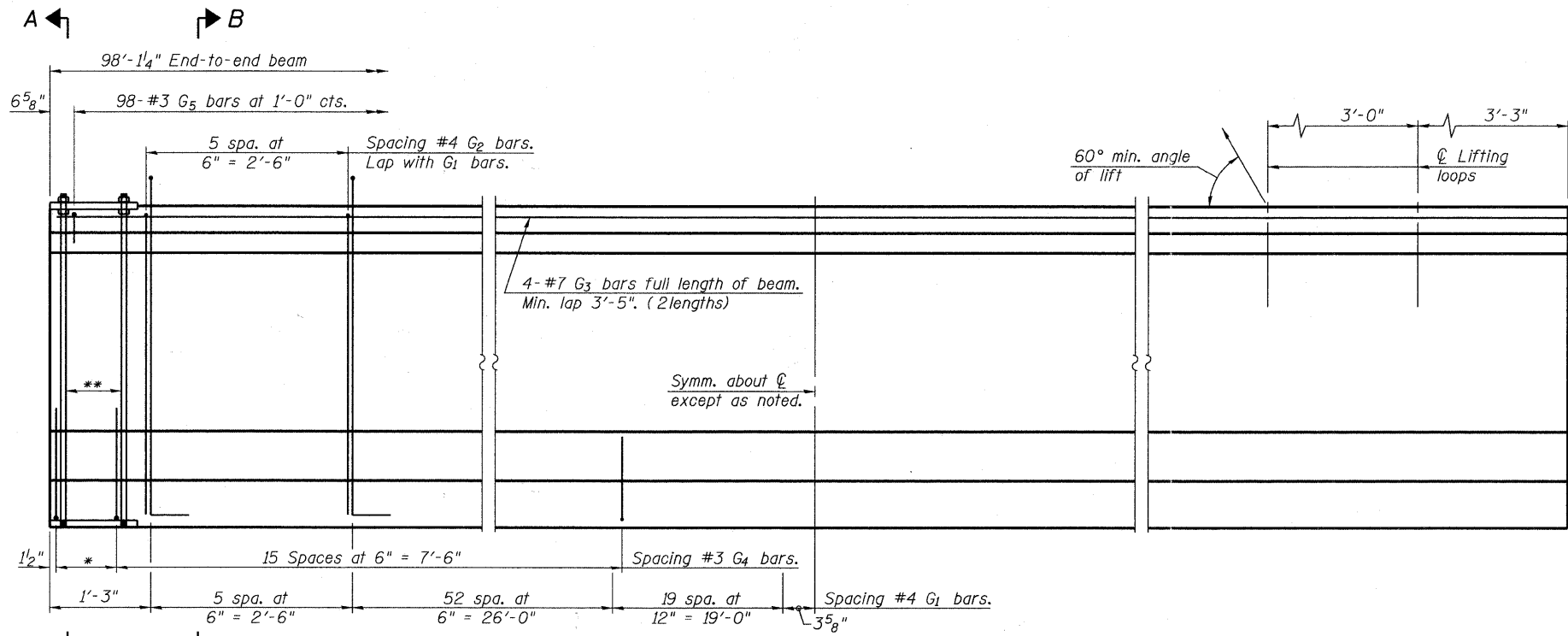
**PERMANENT BRACING DETAILS**



**FRAMING PLAN**

FILE NAME = s:\756-004-1onboard - gwt bridges phase 11\cadd sheets\structural\ST CHARLES\0223121-013-Framing Plan.dgn

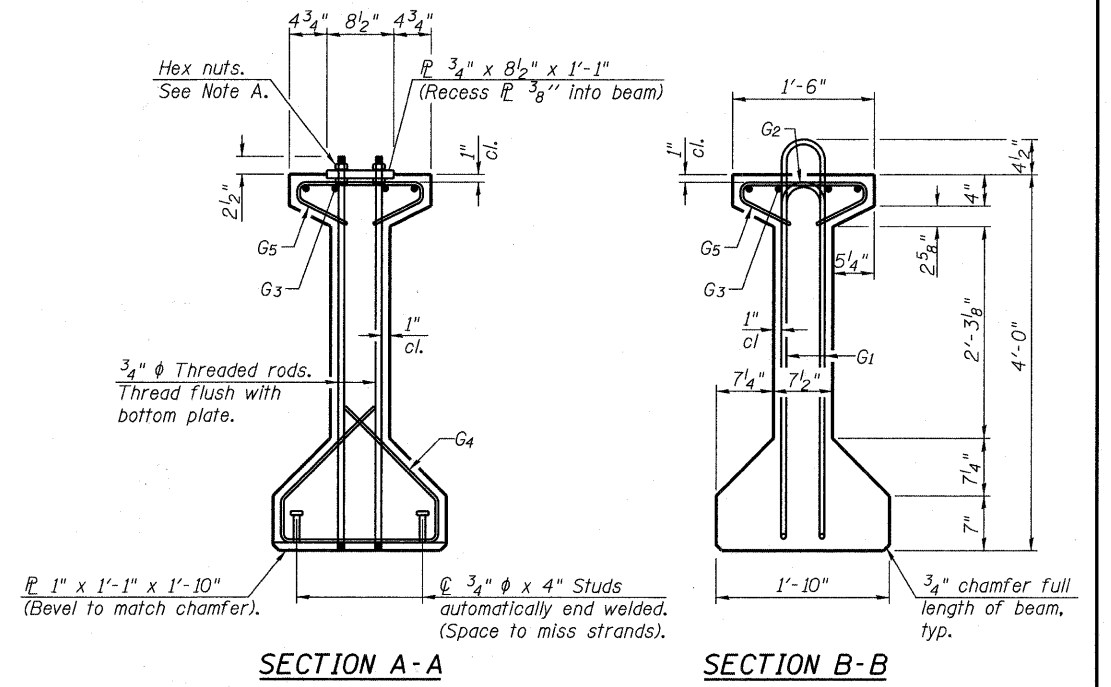
<p><b>Bollinger, Lach &amp; Associates, Inc.</b> ITASCA, ILLINOIS</p>	USER NAME = gonzo	DESIGNED SRT	REVISED -	<p><b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b> <b>ST. CHARLES ROAD</b></p>	<p><b>FRAMING PLAN</b> <b>STRUCTURE NO. 022-3121</b> SHEET NO. 13 OF 29 SHEETS</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED JJI	REVISED -			06-00151-00-BR	DuPAGE	201	130	
	PLOT DATE = 7/26/2011	DRAWN GM	REVISED -			CONTRACT NO. 63568				
	CHECKED JJI	REVISED -		ILLINOIS FED. AID PROJECT						



**ELEVATION OF BEAM**  
(Showing reinforcement & dimensions)

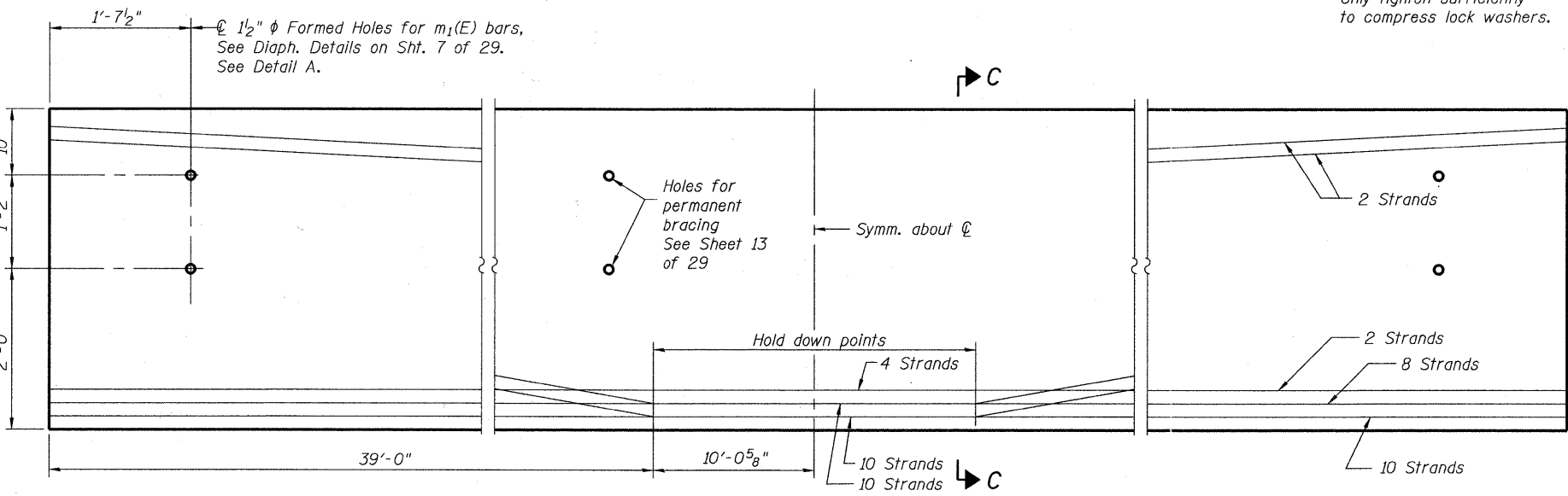
\* 3 spaces at 3" = 9".  
\*\* 4-3/4" φ threaded dowel rods at 3" cts., Each Face.

Note A:  
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

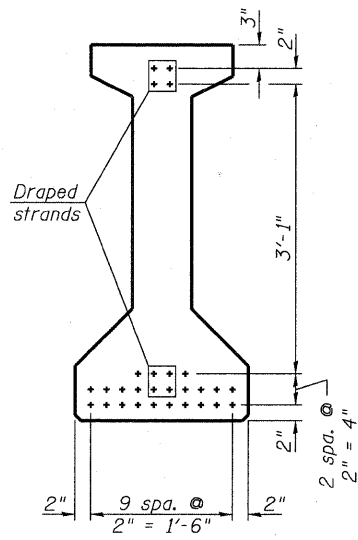


**SECTION A-A**

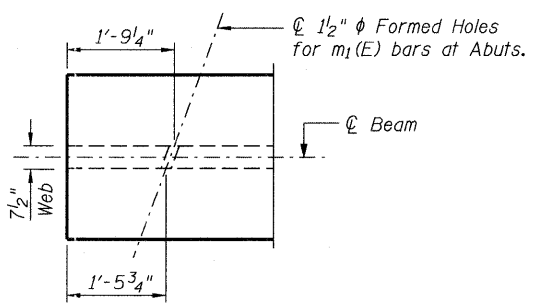
**SECTION B-B**



**ELEVATION OF BEAM**  
(Showing prestressing steel)



**SECTION C-C**



**DETAIL A**

**\*\*\*BAR LIST  
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G <sub>1</sub>	154	#4	9'-6"	⊏
G <sub>2</sub>	12	#4	7'-11"	⊏
G <sub>3</sub>	8	#7	50'-10"	⊏
G <sub>4</sub>	38	#3	5'-3"	⊏
G <sub>5</sub>	98	#3	2'-9"	⊏

\*\*\*For information only

Notes:  
See sheet 15 of 29 for additional details and Bill of Material.  
Required release strength, f'ci, shall be 5,000 psi.

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PI-4-48

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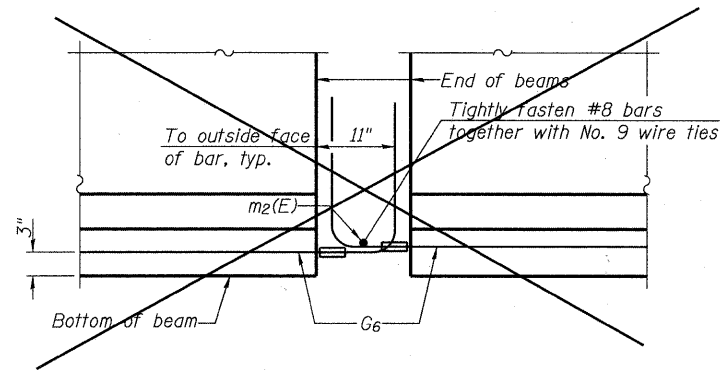
**Bollinger, Lach & Associates, Inc.**  
TRASCA, ILLINOIS

USER NAME = gonzo	DESIGNED SRT SRT	REVISD -
PLOT SCALE =	CHECKED JJI JJI	REVISD -
PLOT DATE = 7/26/2011	DRAWN GM GM	REVISD -
	CHECKED JJI JJI	REVISD -

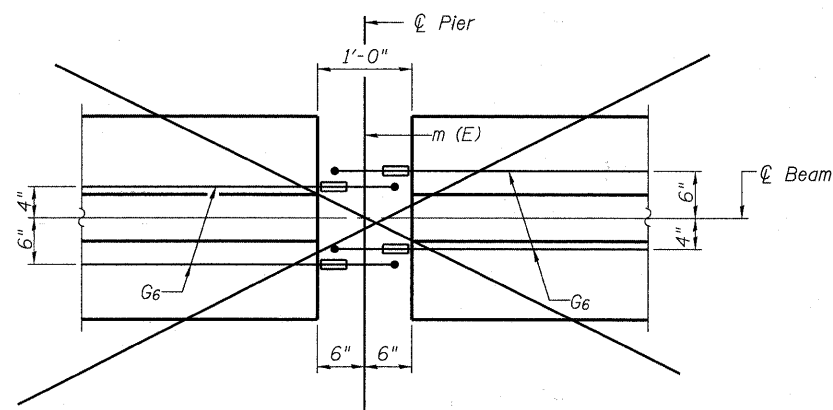
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**48" PPC I-BEAM  
STRUCTURE NO. 022-3121**  
SHEET NO. 14 OF 29 SHEETS

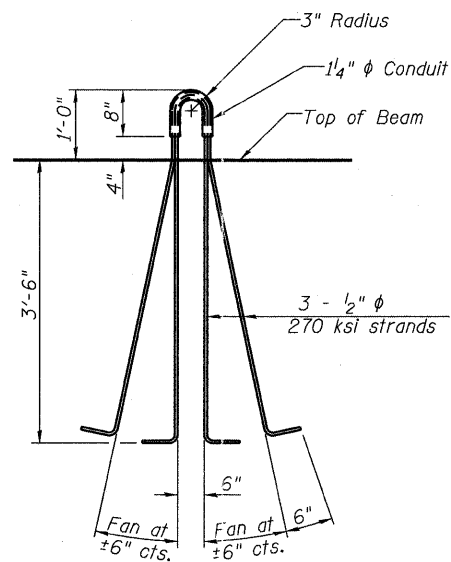
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR		201	131
			DUPAGE	CONTRACT NO. 63568
ILLINOIS FED. AID PROJECT				



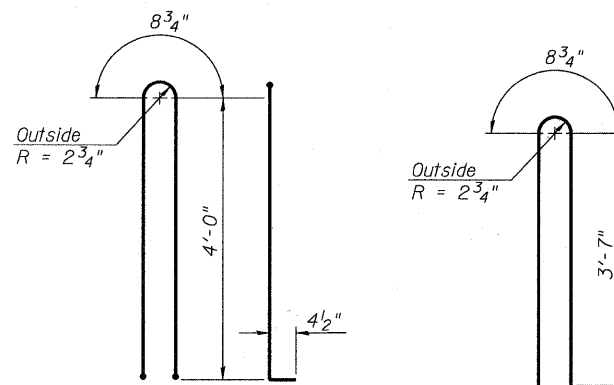
**ELEVATION OF BEAM AT PIER**



**PLAN OF BEAM AT PIER**

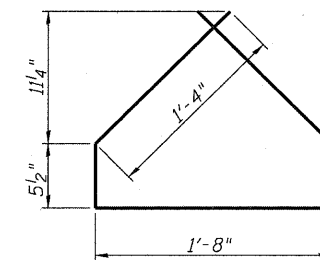


**LIFTING LOOP DETAIL**

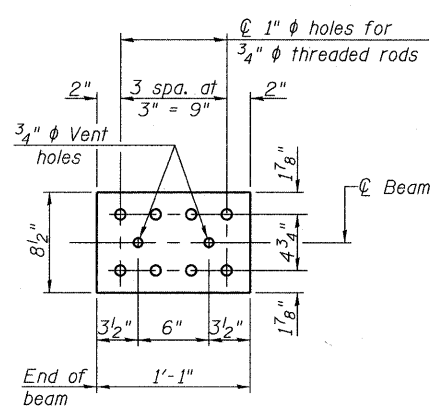


**BAR G1**

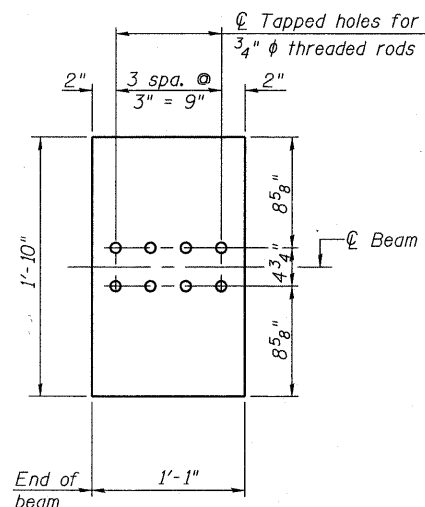
**BAR G2**



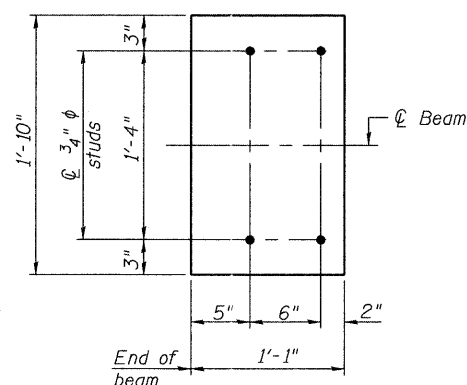
**BAR G4**



**TOP PLATE**

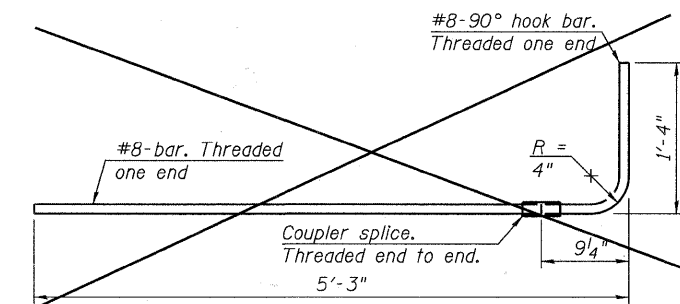


**BOTTOM PLATE  
(Showing threaded rods)**

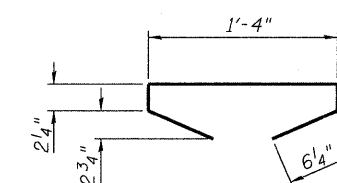


**BOTTOM PLATE  
(Showing studs)**

See bearing details for pintle hole locations when required.



**G6 BAR ASSEMBLY**



**BAR G5**

**NOTES**

Inserts for 3/4"  $\phi$  threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2 1/2"  $\phi$  lifting pin shall be used to engage the lifting loops during handling. ~~The G6 bars when necessary to maintain 1/2" clearance.~~ The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized. Threaded rods shall be ASTM F 1554 Grade 55. ~~The G6 bar assembly shall have the threaded ends oversized to ensure no reduction in cross-sectional area after threading. The coupler splice shall be capable of developing 125 percent of the yield strength of the reinforcement bar.~~ Beams requiring G6 bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 48"	Ft.	393

FILE NAME = s:\756-2004\_lombard - get bridges phase 1\load sheets\structural\ST CHARLES\0223121-015-48 I-BEAM DETAILS IL.dgn

PI-4-48D

7-1-10

**Bollinger, Lach & Associates, Inc.**  
ITASCA, ILLINOIS

USER NAME = gonzalo	DESIGNED SRT SRT	REVISD -
PLOT SCALE =	CHECKED JJI JJI	REVISD -
PLOT DATE = 7/26/2011	DRAWN GM GM	REVISD -
	CHECKED JJI JJI	REVISD -

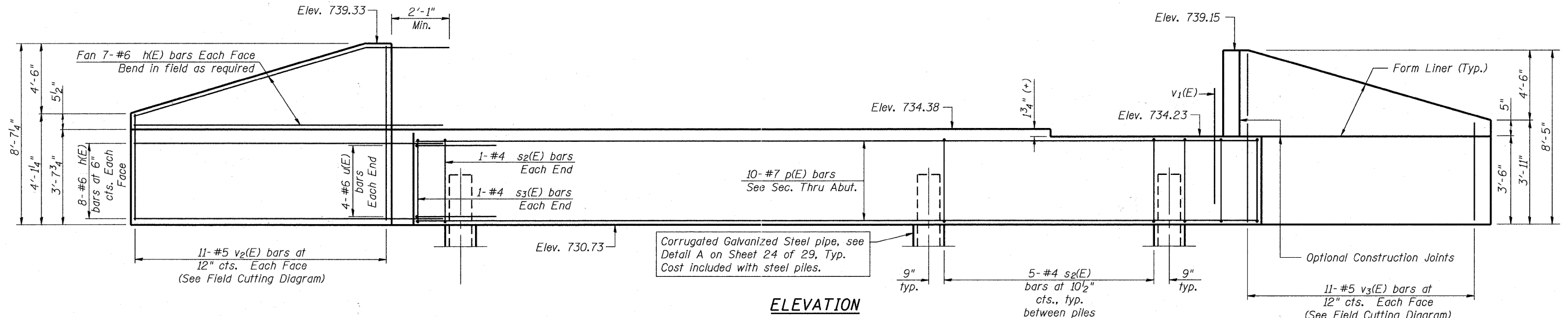
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**48" PPC I-BEAM DETAILS  
STRUCTURE NO. 022-3121**

SHEET NO. 15 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	132
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

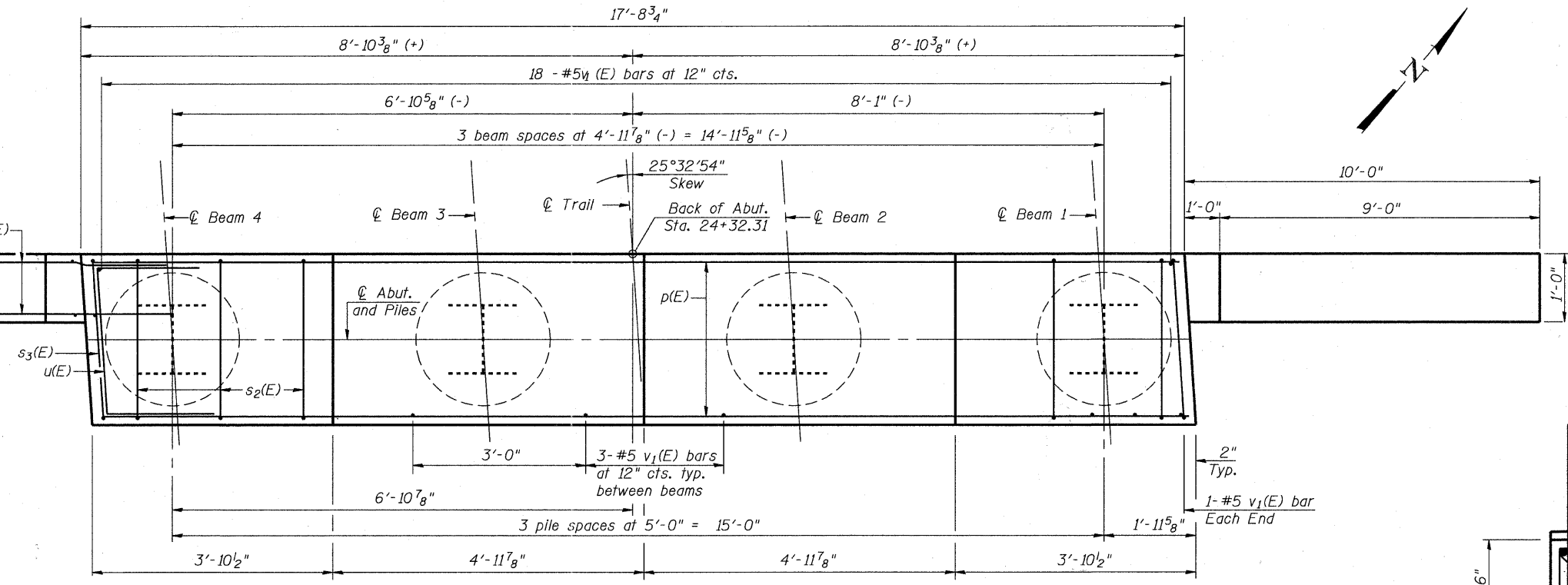




**ELEVATION**

**BILL OF MATERIAL**

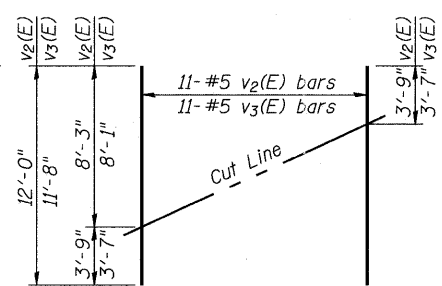
Bar	No.	Size	Length	Shape
h(E)	60	#6	13'-2"	—
p(E)	10	#7	17'-5"	—
s <sub>2</sub> (E)	17	#4	11'-5"	□
s <sub>3</sub> (E)	2	#4	11'-11"	□
u(E)	8	#6	9'-4"	└
v <sub>1</sub> (E)	22	#5	4'-4"	—
v <sub>2</sub> (E)	11	#5	12'-0"	—
v <sub>3</sub> (E)	11	#5	11'-8"	—
Concrete Structures		Cu. Yd.	21.0	
Reinforcement Bars, Epoxy Coated		Pound	2,190	
Furnishing Steel Piles HP 12X63		Foot	255	
Driving Piles		Foot	255	
Test Pile Steel HP 12X63		Each	1	
Pile Shoes		Each	4	
Anti-Graffiti Protection System		Sq. Ft.	84	
Geocomposite Wall Drain		Sq. Yd.	15	
Porous Granular Embankment (Special)		Cu. Yd.	25	
Form Liner Textured Surface, Special		Sq. Ft.	60	



**PLAN**

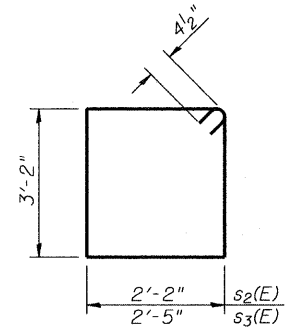
**PILE DATA**

Type: HP 12X63 with Pile Shoes  
 Nominal Required Bearing: 450 kips  
 Factored Resistance Available: 225 kips  
 Est. Length: 85'  
 No. Production Piles: 3  
 No. Test Piles: 1

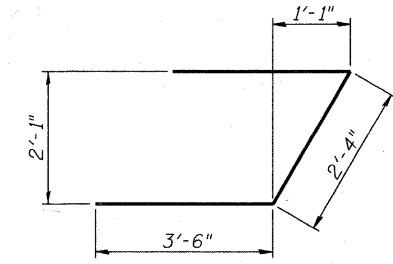


**FIELD CUTTING DIAGRAM**

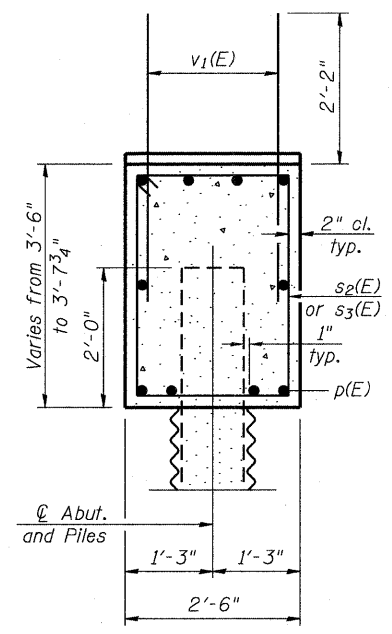
Order v<sub>2</sub>(E), v<sub>3</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s<sub>2</sub>(E) & s<sub>3</sub>(E)**



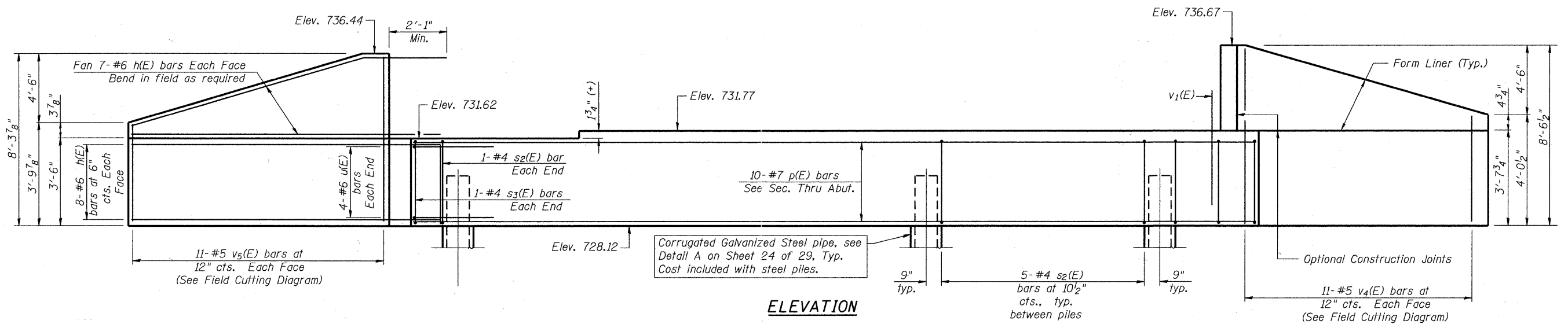
**BAR u(E)**



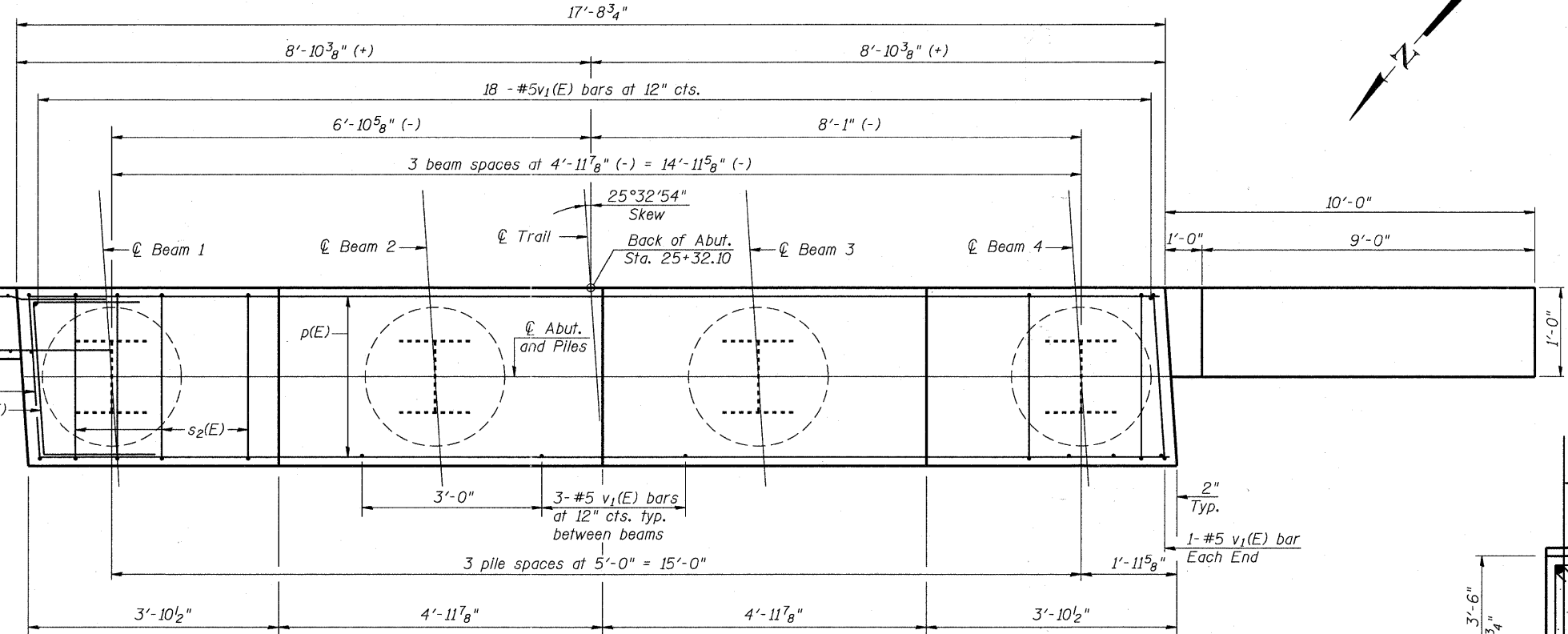
**SEC. THRU ABUT.**

Notes:  
 Contractor Shall coordinate abutment construction with construction of MSE retaining wall.  
 Pour steps monolithically with cap.  
 For details of Bar Splicers, see sheet 20 of 29.

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**ELEVATION**



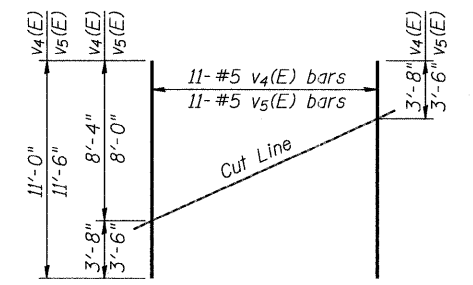
**PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	60	#6	13'-2"	
p(E)	10	#7	17'-5"	
s <sub>2</sub> (E)	17	#4	11'-5"	□
s <sub>3</sub> (E)	2	#4	11'-11"	□
u(E)	8	#6	9'-4"	┘
v <sub>1</sub> (E)	22	#5	4'-4"	
v <sub>4</sub> (E)	11	#5	11'-10"	
v <sub>5</sub> (E)	11	#5	11'-6"	
Concrete Structures	Cu. Yd.		21.0	
Reinforcement Bars, Epoxy Coated	Pound		2,190	
Furnishing Steel - Piles HP 12X63	Foot		207	
Driving Piles	Foot		207	
Test Pile Steel HP 12X63	Each		1	
Pile Shoes	Each		4	
Anti-Graffiti Protection System	Sq. Ft.		84	
Geocomposite Wall Drain	Sq. Yd.		15	
Porous Granular Embankment (Special)	Cu. Yd.		26	
Form Liner Textured Surface, Special	Sq. Ft.		60	

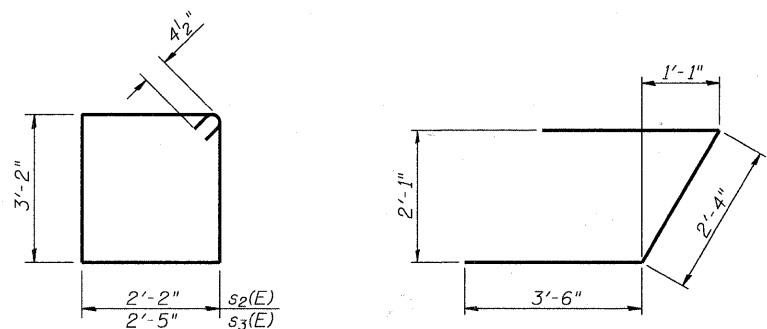
**PILE DATA**

Type: HP 12X63 with Pile Shoes  
 Nominal Required Bearing: 450 kips  
 Factored Resistance Available: 225 kips  
 Est. Length: 69'  
 No. Production Piles: 3  
 No. Test Piles: 1



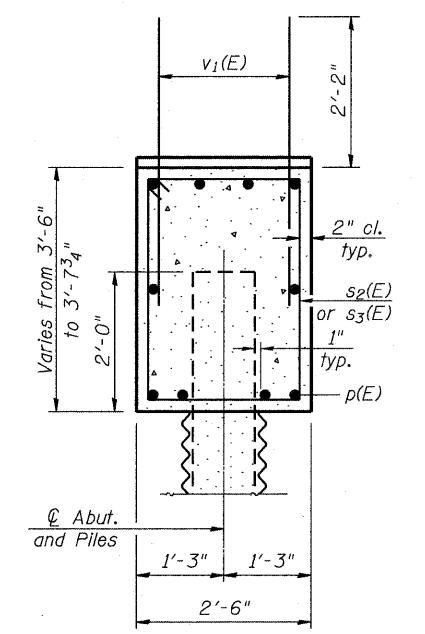
**FIELD CUTTING DIAGRAM**

Order v<sub>4</sub>(E), v<sub>5</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s<sub>2</sub>(E) & s<sub>3</sub>(E)**

**BAR u(E)**



**SEC. THRU ABUT.**

Notes:  
 Contractor Shall coordinate abutment construction with construction of MSE retaining wall.  
 Pour steps monolithically with cap.  
 For details of Bar Splicers, see sheet 20 of 29.

FILE NAME = w:\756-804\_lombard - get bridge phase 1\load sheets\structure\ST CHARLES\022321-07-EAST ABUTMENT.dgn

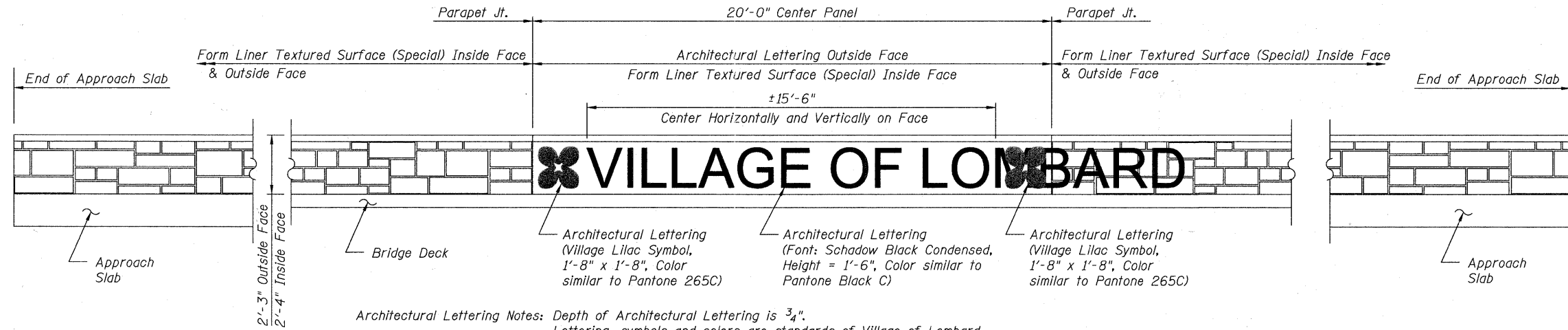
**Bollinger, Lach & Associates, Inc.**  
 ITASCA, ILLINOIS

USER NAME = gonzalo	DESIGNED SRT	REVISED -
PLOT SCALE =	CHECKED JJT	REVISED -
PLOT DATE = 7/26/2011	DRAWN GM	REVISED -
	CHECKED JJT	REVISED -

**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 ST. CHARLES ROAD**

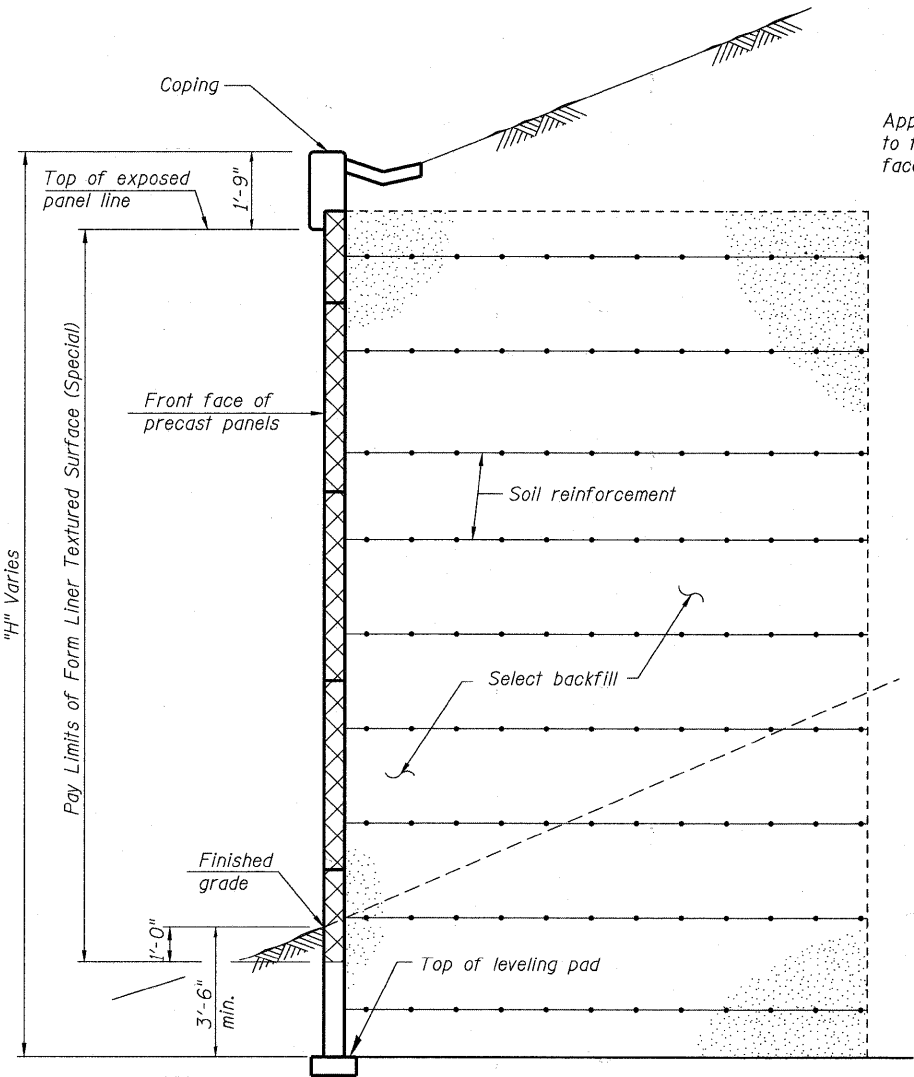
**EAST ABUTMENT  
 STRUCTURE NO. 022-3121**  
 SHEET NO. 17 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	134
			CONTRACT NO.	63568
ILLINOIS FED. AID PROJECT				

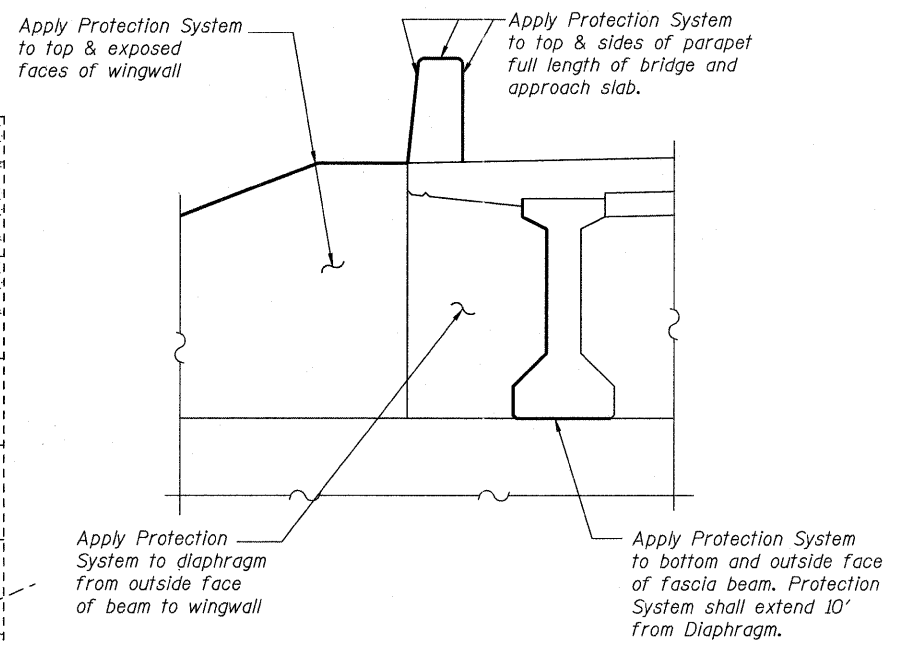


**Architectural Lettering Notes:** Depth of Architectural Lettering is  $\frac{3}{4}$ ". Lettering, symbols and colors are standards of Village of Lombard. Colors will be applied over integrally colored concrete. Any required pretreatment of the areas to be colored necessary to achieve the desired final color is included in the work.

**PARAPET ELEVATION**  
(Outside Face Shown, Typ. each Parapet)



**SECTION THRU MSE WALL**

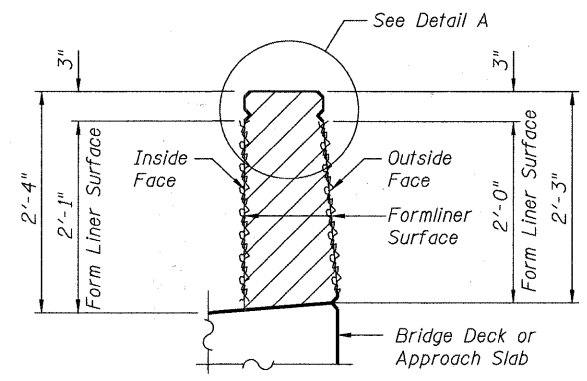


**ANTI-GRAFFITI PROTECTION SYSTEM**

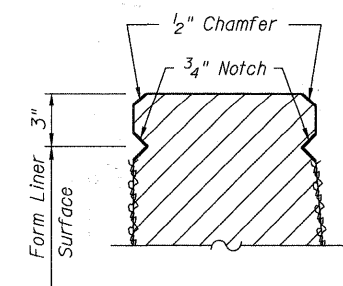
**BILL OF MATERIAL**

Item	Unit	Total
Architectural Lettering	L. Sum	0.5

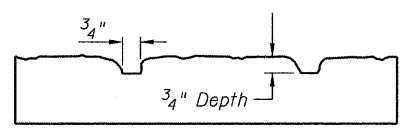
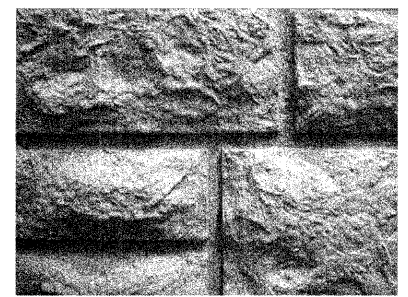
Integrally Colored Concrete, paid for as Concrete Superstructure, Special



**PARAPET FORM LINER**



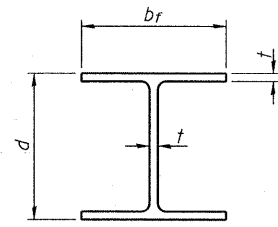
**DETAIL A**



**FORM LINER TEXTURE DETAIL**

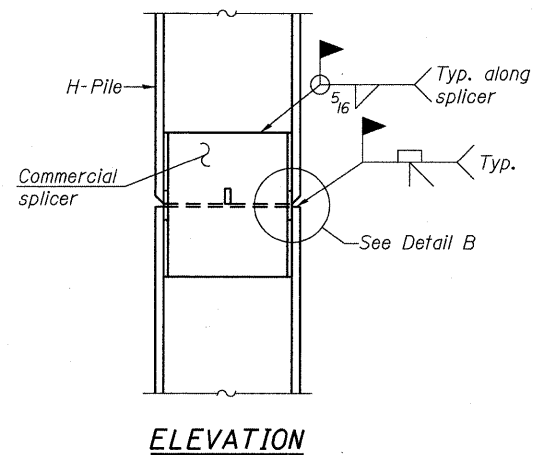
See Special Provisions

**Note:**  
Form Liner Textured Surface (Special) to be used on inside and outside faces of Parapet & on front face of precast panels, except in areas of Architectural Lettering. Utilize Fitzgerald Formliners form liner pattern #17027 or equivalent.  
The depth of relief of the Form Liner Textured Surface is limited to  $\frac{3}{4}$ ". The relief should not compromise the reinforcement clearance in the Parapet.

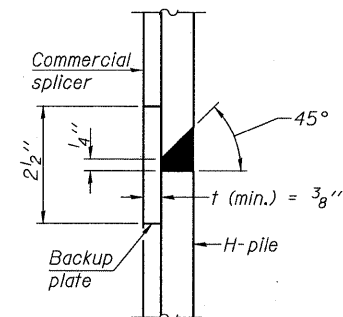


**STEEL PILE TABLE**

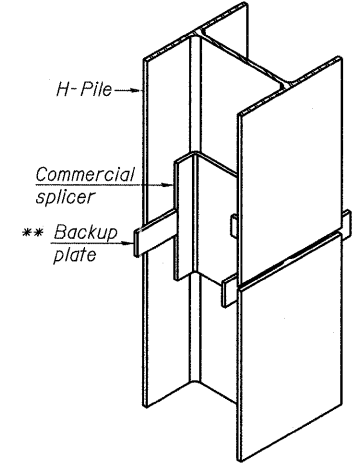
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

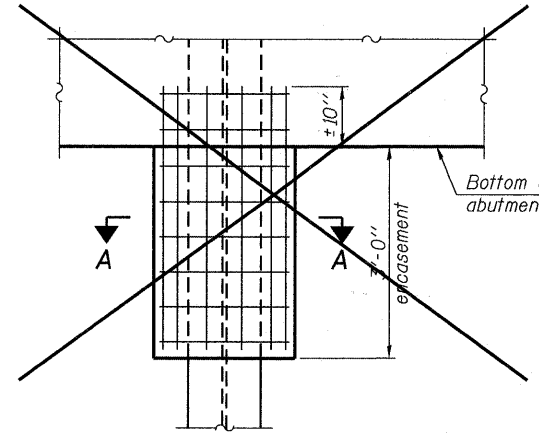


**DETAIL "B"**



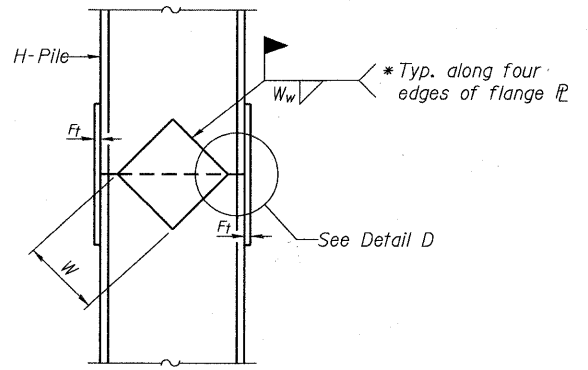
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**

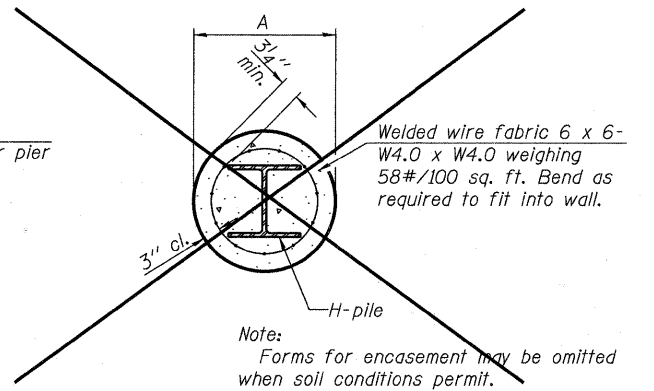


**ELEVATION**

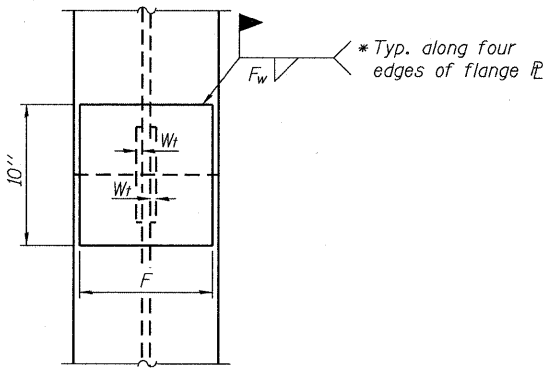
**PILE ENCASEMENT**



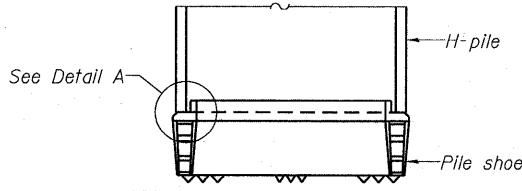
**ELEVATION**



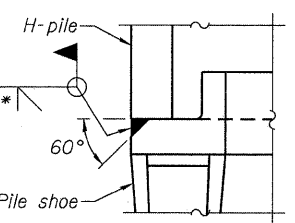
**SECTION A-A**



**END VIEW**

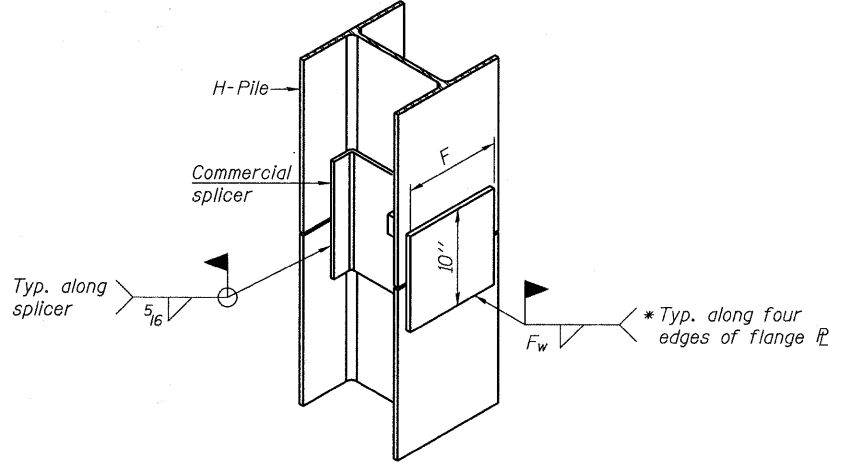


**ELEVATION**



**DETAIL A**

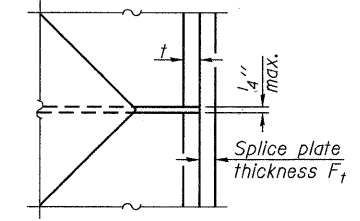
**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = s:\756-004\_lombard - gwt bridges phase 1\load sheets\structural\ST CHARLES\0223121-019-H\_PILES.dgn

F-HP

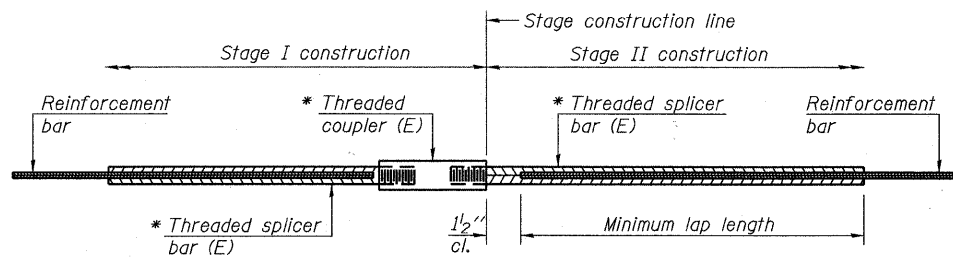
7-1-10

**Bollinger, Lach & Associates, Inc.**  
ITASCA, ILLINOIS

USER NAME = gonzo	DESIGNED SRT	REVISD -
PLOT SCALE =	CHECKED JJI	REVISD -
PLOT DATE = 7/26/2011	DRAWN GM	REVISD -
	CHECKED JJI	REVISD -

STATE OF ILLINOIS	HP PILE DETAILS
GREAT WESTERN TRAIL	STRUCTURE NO. 022-3121
ST. CHARLES ROAD	SHEET NO. 19 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	136
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



**STANDARD BAR SPLICER ASSEMBLY**

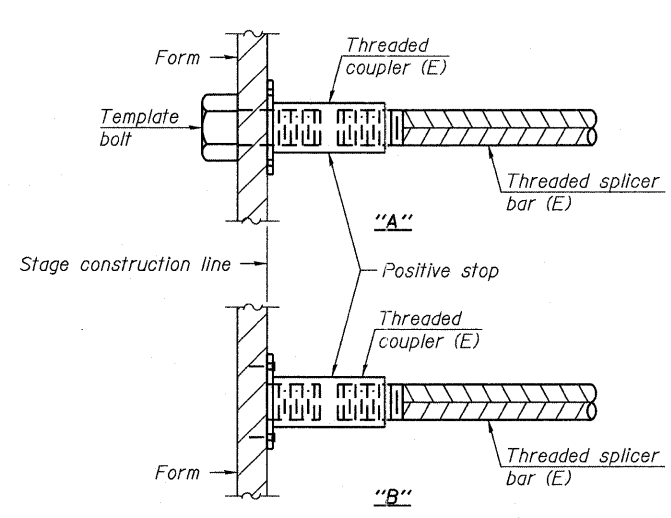
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

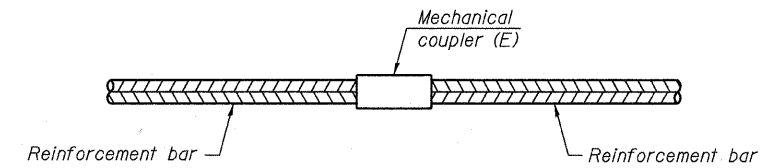
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



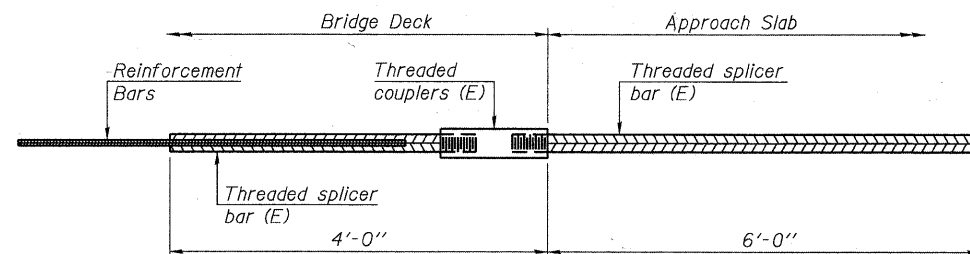
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



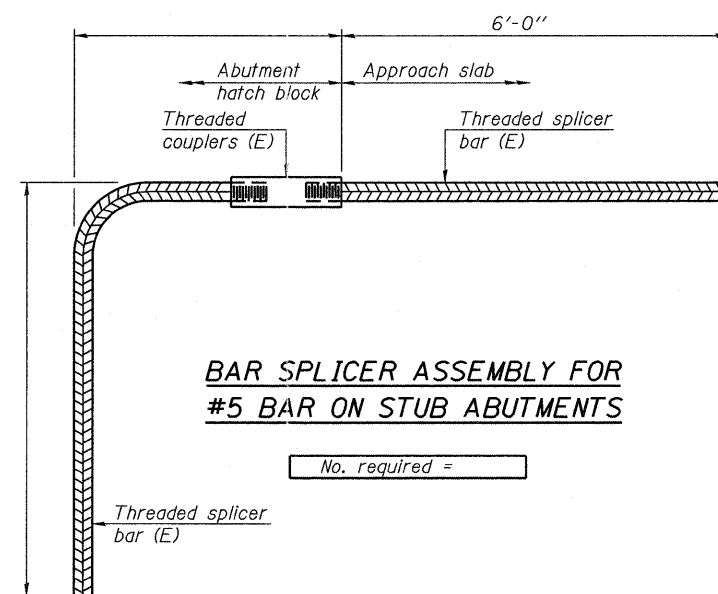
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 34



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See special provision for Mechanical Splicers.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = s:\v756-204\_lombard - gwt bridges phase 1\add sheets\structural\ST CHARLES\0223121-020-BAR SPLICER ASSEM.dgn

BSD-1

7-1-10



USER NAME = gonzalo  
 PLOT SCALE =  
 PLOT DATE = 7/26/2011

DESIGNED SRT  
 CHECKED JJI  
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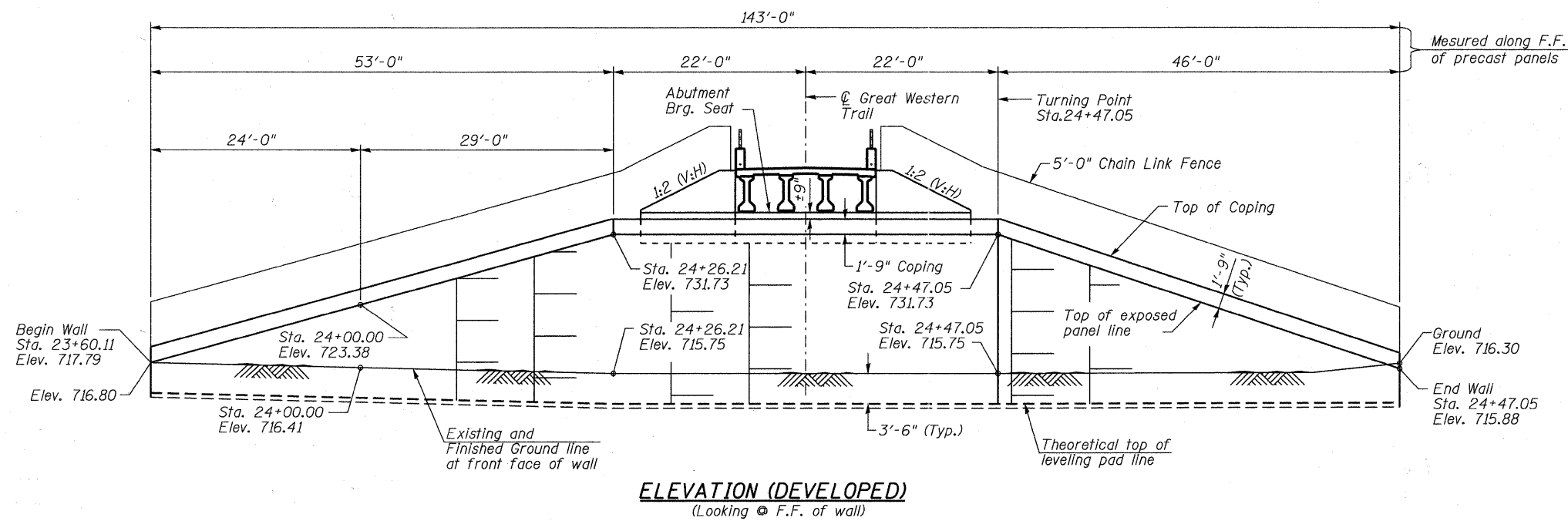
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STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 ST. CHARLES ROAD

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 022-3121

SHEET NO. 20 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	137
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

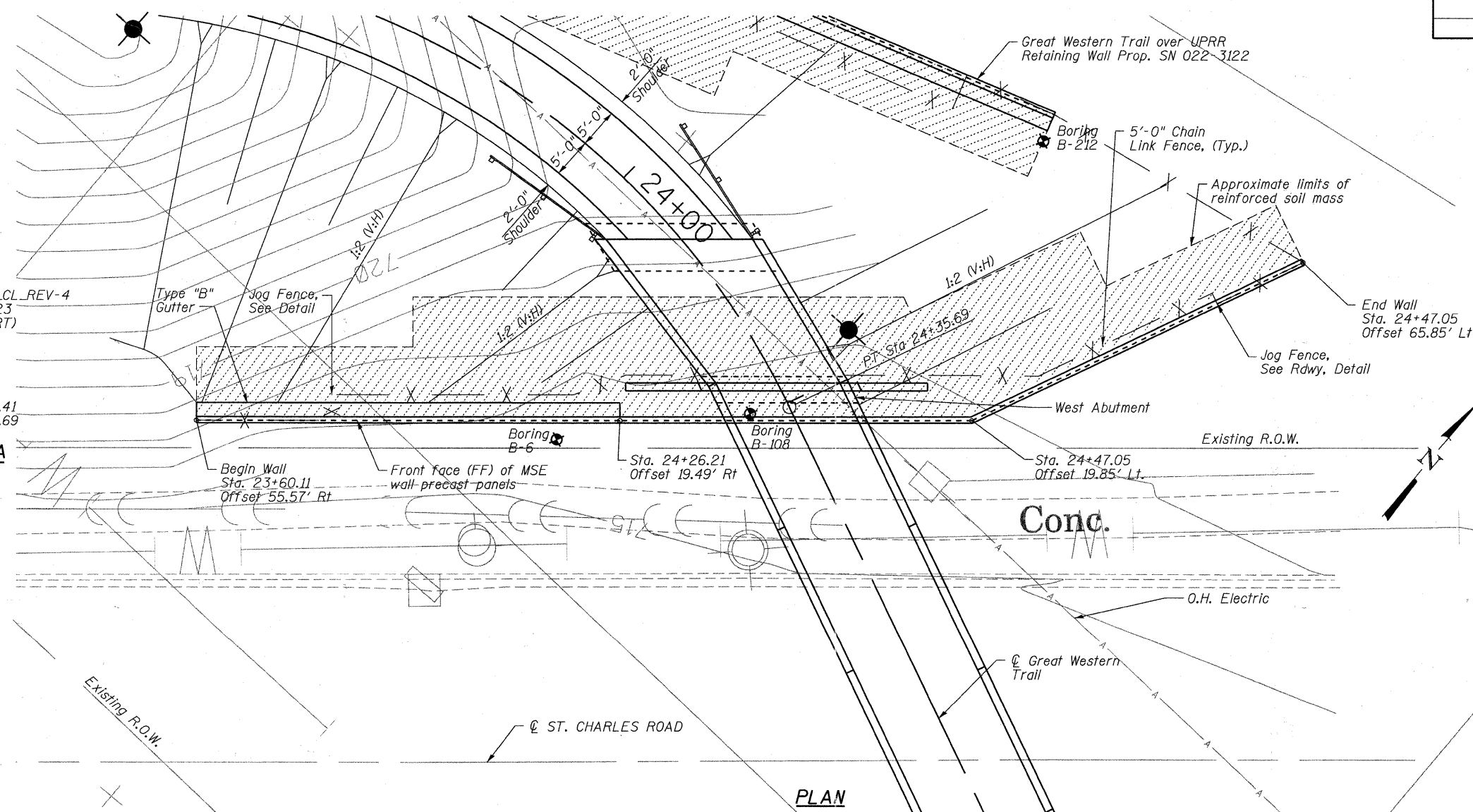


**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	234
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	1,999
Anti-Graffiti Protection System	Sq. Ft.	1,641
Form Liner Textured Surface, Special	Sq. Ft.	1,641

PROP. CURVE GWT\_CL\_REV-4  
 PI STA. = 23+87.23  
 Δ = 62° 36' 31" (RT)  
 D = 57° 17' 45"  
 R = 100.00'  
 T = 60.81'  
 L = 109.27'  
 E = 17.04'  
 P.C. STA = 23+26.41  
 P.T. STA = 24+35.69

**CURVE DATA**



**Notes:**

1. See Special Provisions for Mechanically Stabilized Earth Retaining Wall for design and construction requirements.
2. Cast-in-place concrete and reinforcing steel, epoxy coated, required for coping will be included in payment for Mechanically Stabilized Earth Retaining Wall, see Special provisions.
3. Mechanically Stabilized Earth retaining wall supplier to coordinate location and lengths of soil reinforcement with light pole, conduit, and unit duct locations shown on Lighting Plans to avoid conflicts. Any load transfer system required shall be detailed and shown on Mechanically Stabilized Earth retaining wall Shop Drawings.
4. Sonotubes shall be installed by Contractor where light pole locations interfere with soil reinforcement.
5. For Fence and Gutter limits and details, see Roadway Plans.
6. Contractor shall coordinate MSE retaining wall construction with abutment construction.

Note: Wall offsets are measured from the  $\odot$  Great Western Trail to the front face of precast panels.

Approximate Limit of Reinforced Soil Mass



USER NAME =	DESIGNED SRT	REVISED -
PLOT SCALE =	CHECKED JJJ	REVISED -
PLOT DATE =	DRAWN GM	REVISED -
	CHECKED JJJ	REVISED -

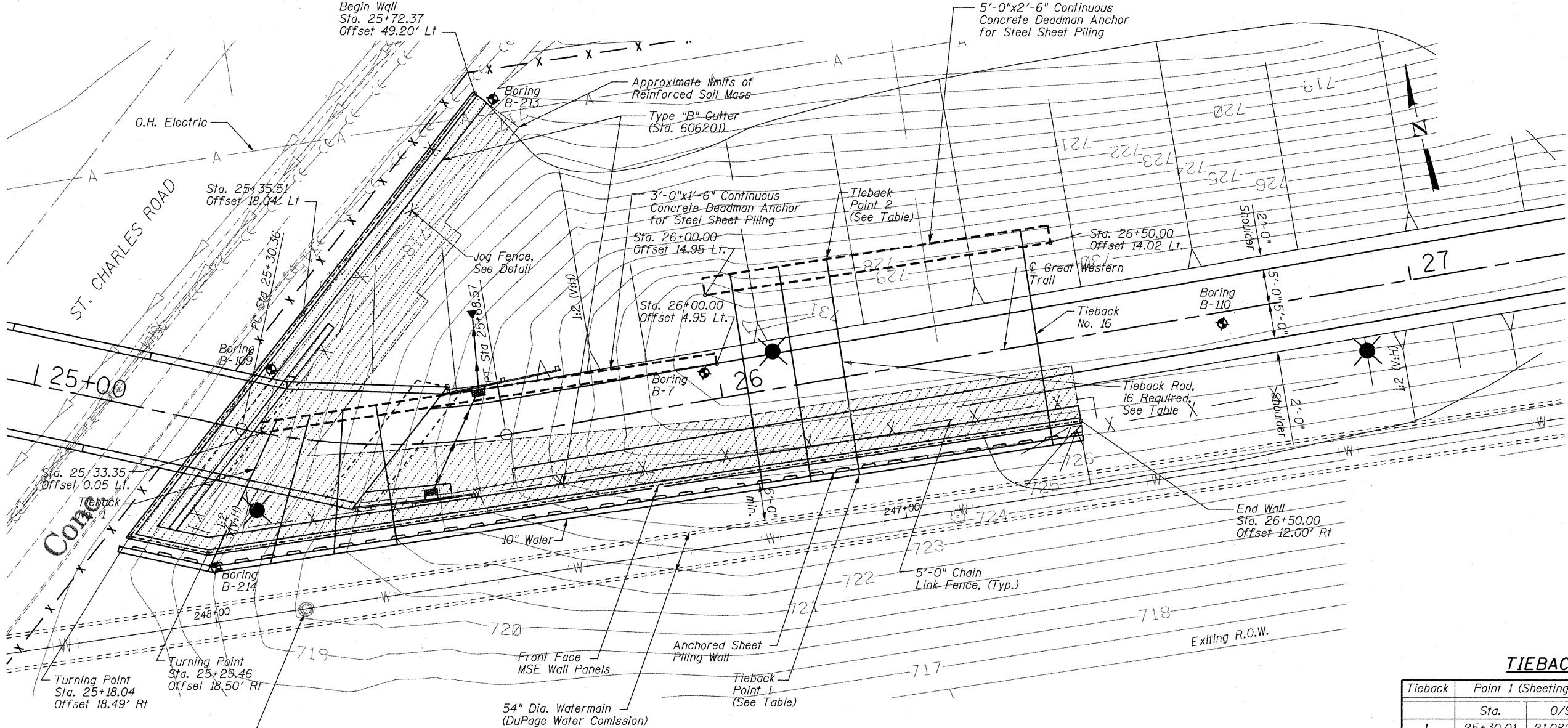
**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 ST. CHARLES ROAD**

**WEST ABUTMENT MSE PLAN AND ELEVATION  
 STRUCTURE NUMBER 022-3121**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	138
				CONTRACT NO. 63568
ILLINOIS FED. AID PROJECT				

SHEET NO. 21 OF 29 SHEETS

FILE NAME = s:\V756-004\_lombard - get bridge phase 1\road sheets\structural\ST CHARLES\0223121-022-East Abut. and MSE wall.dgn



**PLAN**

**PROP. CURVE GWT CL REV-5**  
 PI STA. = 25+49.70  
 $\Delta = 21^\circ 53' 19''$  (LT)  
 $D = 57' 17'' 45''$   
 $R = 100.00'$   
 $T = 19.34'$   
 $L = 38.20'$   
 $E = 1.85'$   
 P.C. STA = 25+30.36  
 P.T. STA = 25+68.57

**CURVE DATA**

**TIEBACK TABLE**

Tieback	Point 1 (Sheeting)		Point 2 (Deadman)	
	Sta.	O/S	Sta.	O/S
1	25+30.01	21.08' Rt.	25+35.16	2.23' Lt.
2	25+37.27	18.39' Rt.	25+39.88	3.61' Lt.
3	25+44.84	16.06' Rt.	25+44.72	4.76' Lt.
4	25+52.68	14.42' Rt.	25+49.67	5.69' Lt.
5	25+60.54	13.51' Rt.	25+59.20	6.79' Lt.
6	25+68.48	13.31' Rt.	25+68.85	7.03' Lt.
7	25+77.47	13.48' Rt.	25+77.85	6.86' Lt.
8	25+86.46	13.65' Rt.	25+86.85	6.70' Lt.
9	25+95.46	13.82' Rt.	25+95.84	6.53' Lt.
10	26+03.46	13.97' Rt.	26+04.05	17.38' Lt.
11	26+10.46	14.10' Rt.	26+11.05	17.25' Lt.
12	26+17.46	14.23' Rt.	26+18.05	17.12' Lt.
13	26+24.46	14.36' Rt.	26+25.05	16.99' Lt.
14	26+31.46	14.49' Rt.	26+32.05	16.85' Lt.
15	26+38.46	14.62' Rt.	26+39.04	16.72' Lt.
16	26+45.45	14.75' Rt.	26+46.04	16.59' Lt.

Approximate Limit of Reinforced Soil Mass

- Notes:**
- The existing water transmission main and all appurtenances shall be field verified prior to construction and any excavation activities with an opportunity for the DuPage Water Commission to witness the field verifications. Field locating shall consist of physically locating the watermain at the beginning and end of the sheet piling wall.
  - See Special Provisions for Mechanically Stabilized Earth Retaining Wall for design and construction requirements.
  - See Special Provisions for Permanent MSE Wall Steel Sheet Piling for material and construction requirements.
  - Permanent Steel Sheet Piling, waters, tie rods and deadman elements shall be installed prior to construction of Mechanically Stabilized Earth Retaining Wall.
  - Cast-in-place concrete and reinforcing steel, epoxy coated, required for coping will be included in payment for Mechanically Stabilized Earth Retaining Wall, see Special Provisions.
  - Mechanically Stabilized Earth retaining wall supplier to coordinate location and lengths of soil reinforcement with light pole, conduit, and unit duct locations shown on Lighting Plans to avoid conflicts. Any load transfer system required shall be detailed and shown on Mechanically Stabilized Earth retaining wall Shop Drawings.
  - Sonotubes shall be installed by Contractor where light pole locations interfere with soil reinforcement.
  - For Fence and Gutter limits and details, see Roadway Plans.
  - Contractor shall coordinate MSE retaining wall construction with abutment construction.
  - The Contractor shall be cognizant about the site constraints and the related challenges associated with this work. Installation procedures will be affected by existing conditions and may require modifications to the details and/or procedures shown on the plans. It is the Contractor's responsibility to determine the most cost-effective method of construction and include all items necessary for the proper and safe execution of the work.

**Bollinger, Lach & Associates, Inc.**  
 ITASCA, ILLINOIS

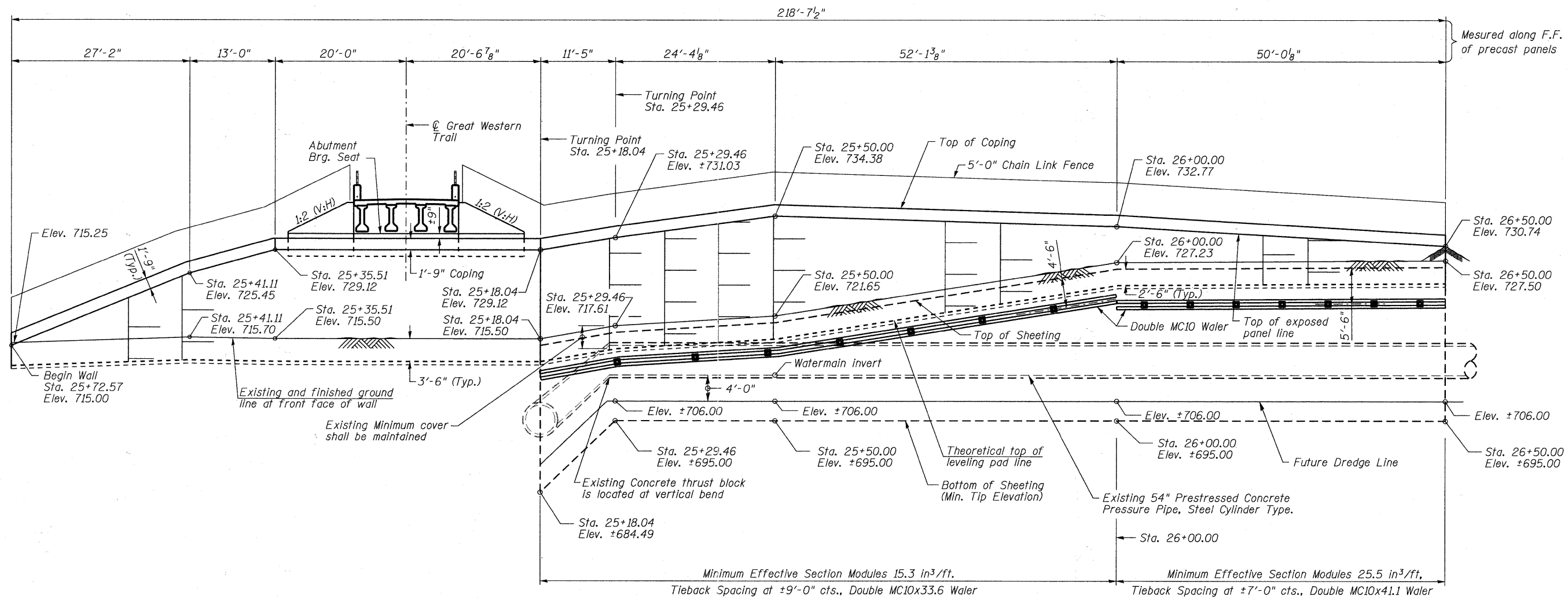
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PLOT DATE = 7/26/2011	DRAWN GM	REVISOR -
	CHECKED JJI	REVISOR -

**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL  
 ST. CHARLES ROAD**

**EAST ABUTMENT PLAN  
 STRUCTURE NUMBER 022-3121**

SHEET NO. 22 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	139
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



**ELEVATION (DEVELOPED)**  
(Looking @ F.F. of wall)

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	520
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,052
Anti-Graffiti Protection System	Sq. Ft.	2,404
Form Liner Textured Surface, Special	Sq. Ft.	2,404
Permanent Steel Sheet Piling	Sq. Ft.	3,980

Note: Included in the contract unit price per square foot for Permanent Steel Sheet Piling shall be the necessary walers, concrete deadmen, tie rods and associated connection hardware necessary for construction of anchored sheet pile wall. See Special Provision Permanent MSE Wall Steel Sheet Piling.

FILE NAME = w:\756-004\lombard - gwt bridges phase 1\cadd sheets\structural\ST CHARLES\0223121-023-East Abut. and MSE.dgn

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ITASCA, ILLINOIS

USER NAME = gonzo10	DESIGNED SRT	REVISED -
PLOT SCALE =	CHECKED JJI	REVISED -
PLOT DATE = 7/26/2011	DRAWN GM	REVISED -
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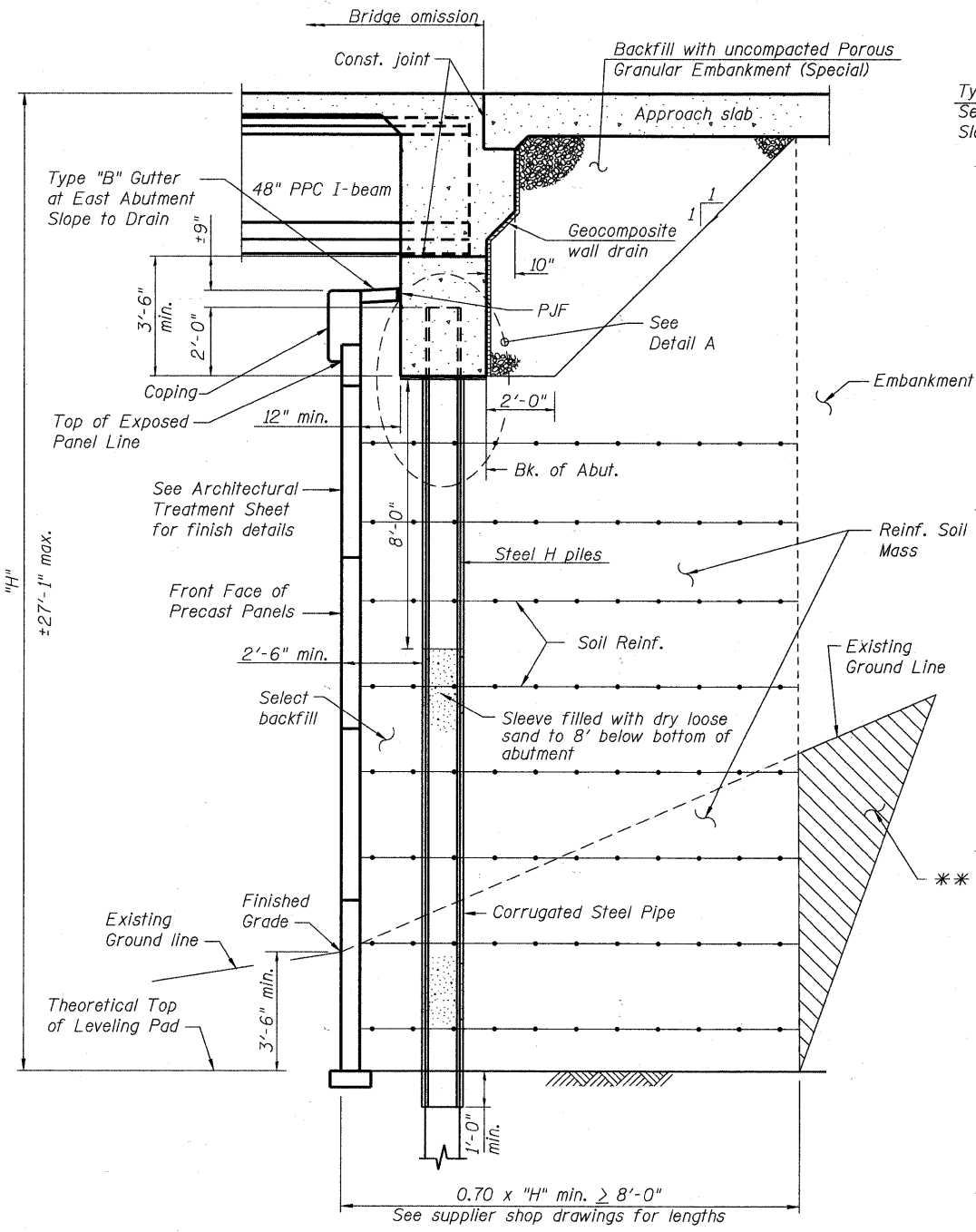
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD**

**EAST ABUTMENT MSE ELEVATION  
STRUCTURE NUMBER 022-3121**

SHEET NO. 23 OF 29 SHEETS

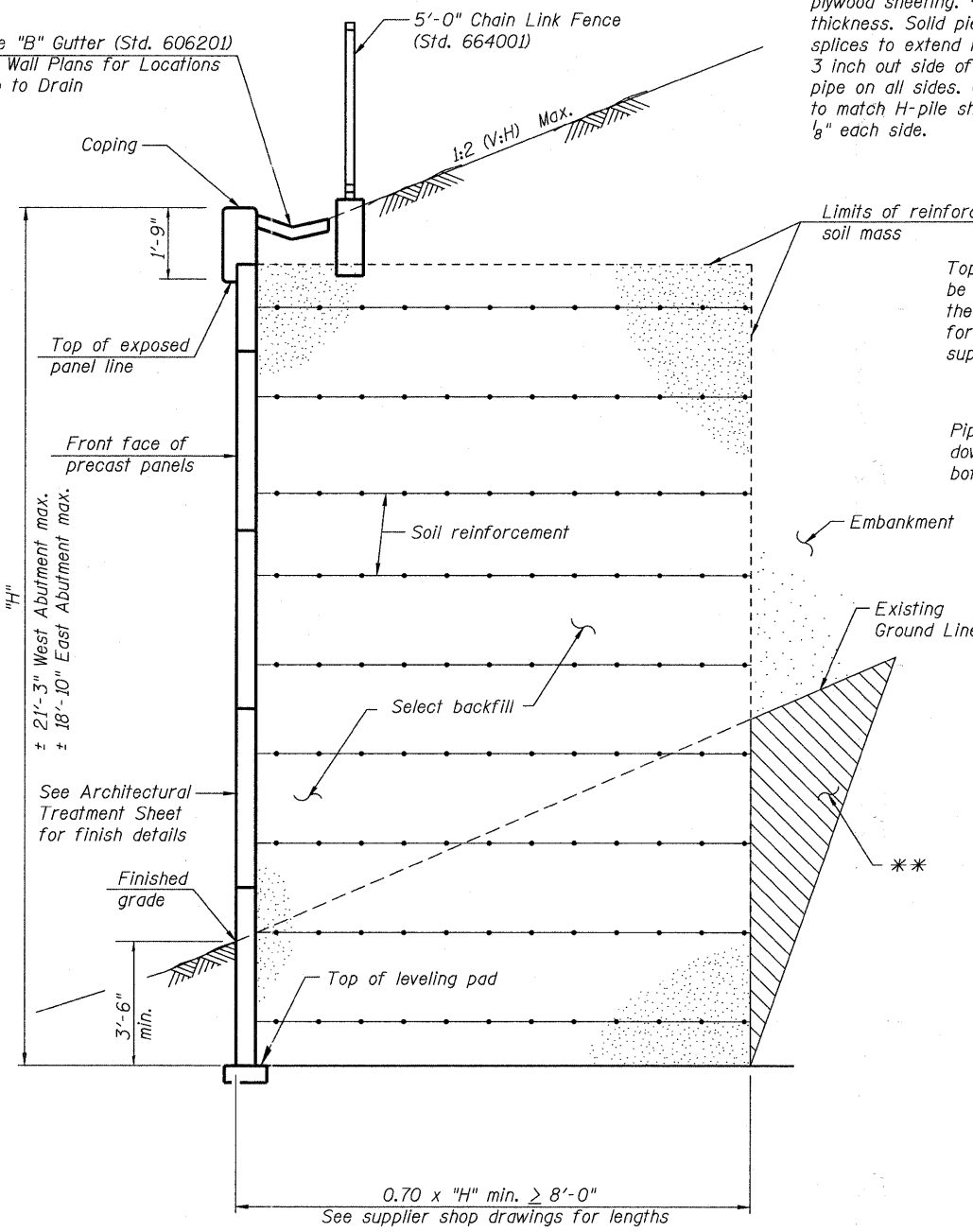
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	140
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				





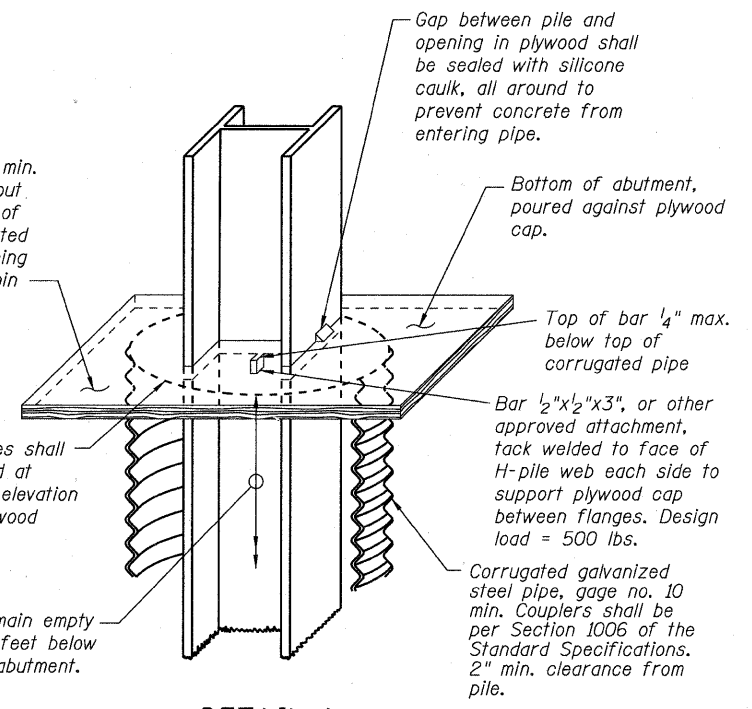
**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

Type "B" Gutter (Std. 606201)  
See Wall Plans for Locations  
Slop to Drain

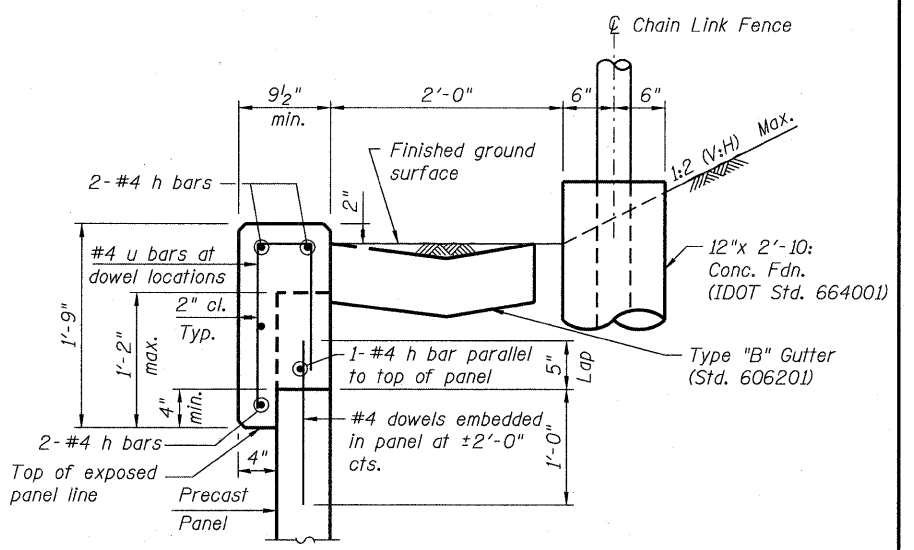


**SECTION THRU MSE WALL**

Plywood cap. Exterior plywood sheeting, 3/32 inch min. thickness. Solid piece without splices to extend minimum of 3 inch out side of corrugated pipe on all sides. Cut opening to match H-pile shape within 1/8" each side.



**DETAIL A**



**SECTION THRU MSE WALL**

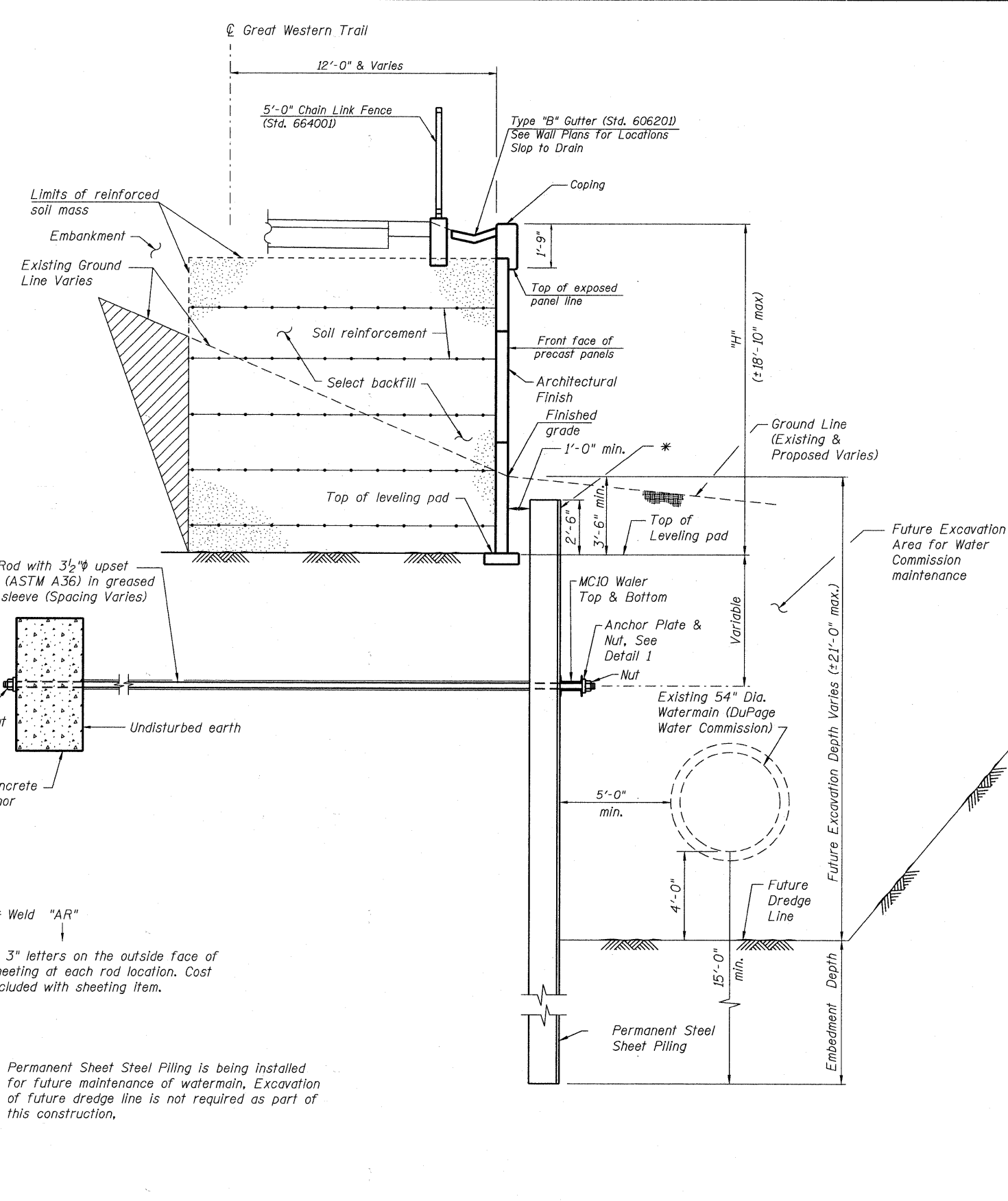
\* Piles shall be driven prior to placement of reinforced select fill and after installation of corrugated, galvanized steel pipe shown in Detail A. Cost of corrugated, galvanized steel pipe and all labor and materials necessary to comply with detail shall be included in the "Furnishing Piles" pay items.

\*\* Overexcavation beyond the limits of Structure excavation. This area not measured for payment. Backfill overexcavation with same material as used for select fill.

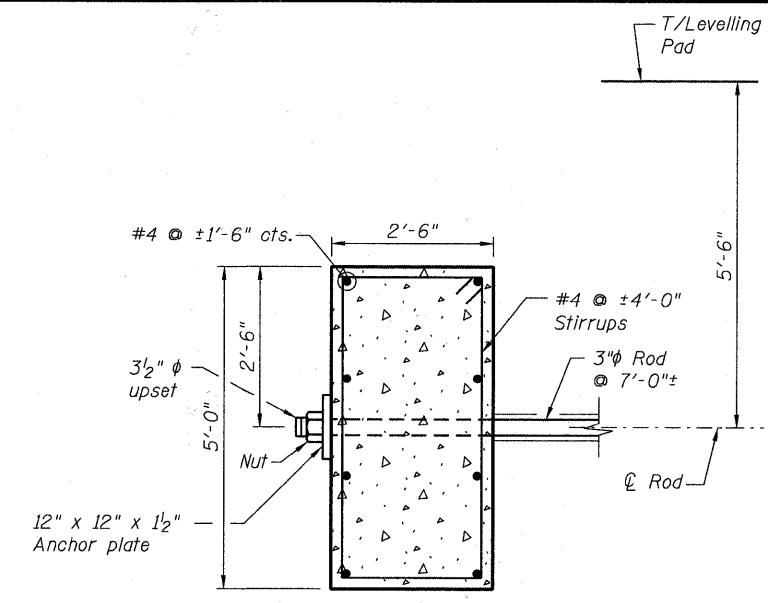
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PLOT SCALE =	CHECKED JJI	REVISED -
PLOT DATE =	DRAWN GM	REVISED -
	CHECKED JJI	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	141
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

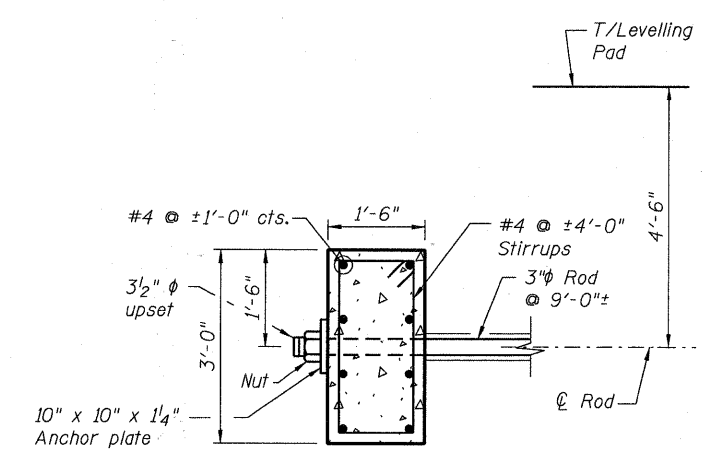
FILE NAME = \\755-004.lombard - gwt\_bridgema phase 11\cadd sheets\structure\ST CHARLES\0223121-025-EAST ABUTMENT MSE WALL DETAILS II.dgn  
 Bollinger, Lach & Associates, Inc.



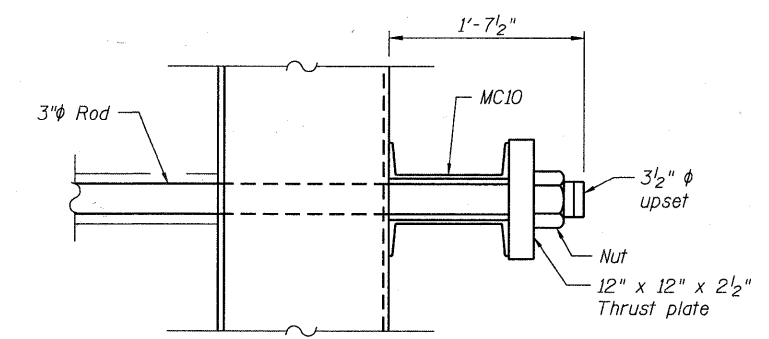
**SECTION THRU SHEET PILE WALL**



**CONCRETE DEADMAN (5'-0" x 2'-6")**



**CONCRETE DEADMAN (3'-0" x 1'-6")**



**DETAIL 1 - WALER FOR THREADED BARS**

\* Weld "AR"  
 in 3" letters on the outside face of  
 sheeting at each rod location. Cost  
 included with sheeting item.

Note: Permanent Sheet Steel Piling is being installed  
 for future maintenance of watermain, Excavation  
 of future dredge line is not required as part of  
 this construction.

	USER NAME = gonzo10	DESIGNED SRT	REVISED -	<b>STATE OF ILLINOIS          GREAT WESTERN TRAIL          ST. CHARLES ROAD</b>	<b>EAST ABUTMENT MSE WALL DETAILS II          STRUCTURE NUMBER 022-3121</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED JJI	REVISED -			06-00151-00-BR	DuPAGE	201	142	
	PLOT DATE = 7/26/2011	DRAWN GM	REVISED -			CONTRACT NO. 63568				
		CHECKED JJI	REVISED -			ILLINOIS FED. AID PROJECT				
SHEET NO. 25 OF 29 SHEETS										

Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 2  
Date Started 6/30/06  
Date Completed 6/30/06

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-65,946  
COUNTY DuPage LOCATION North of St. Charles Road S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BL	LO	W	Qu	W	Surface Water Elev.	Groundwater Elev.	DEPTH	BL	LO	W	Qu	W
6		ft	715.13	H	S	tsf	%					H	S	tsf	%		
FILL - Black clayey Topsoil 714.43																	
FILL - Black and brown CLAY LOAM, moist A-6 712.13																	
FILL - Brown and gray CLAY, trace black topsoil, trace gravel, moist A-6 (Creosote type odor) 707.13																	
FILL - Brown CLAY, trace wood, moist A-6 (Creosote type odor) 704.63																	
FILL - Gray CLAY with wood pieces, moist (Creosote type odor, disturbed sample) 702.13																	
Very stiff to hard gray CLAY, moist A-6 699.63																	
Stiff to very stiff gray CLAY, trace gravel, moist A-6 694.63																	
Very stiff gray CLAY, trace gravel, moist A-6 692.13																	
Hard gray CLAY LOAM, moist A-6 690.13																	

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation  
STRUCTURE BORING LOG

Page 2 of 2  
Date Started 6/30/06  
Date Completed 6/30/06

STRUCTURE NO. \_\_\_\_\_ ROUTE \_\_\_\_\_  
SECTION \_\_\_\_\_ COUNTY \_\_\_\_\_  
COUNTY DuPage

Boring No.	Station	Offset	Elevation	DEPTH	BL	LO	W	Qu	W
6		ft	665.13	H	S	tsf	%		
Med. dense gray SILTY LOAM, moist A-4 663.13									
Very stiff gray CLAY LOAM, occasional silt and sand seams, trace gravel, moist A-6 658.13									
Med. dense gray SANDY LOAM and GRAVEL, saturated A-1 653.13									
Med. dense gray sandy SILT, little gravel, moist A-4 648.13									
Dense gray SILT, trace sand and gravel, moist A-4 644.13									
Auger Refusal at 71.0' on probable rock surface									

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

CME 750 ATV Drill Rig (#275)  
CME Automatic Hammer  
4.5" (114 mm) SFA to 10.0'  
Rotary Wash Drill below 10.0'

Testing Service Corporation  
STRUCTURE BORING LOG

Page 1 of 2  
Date Started 7/6/06  
Date Completed 7/6/06

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-65,946  
COUNTY DuPage LOCATION South of St. Charles Road S. 5 - SE 1/4, TWP. 39N, RNG. 11E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BL	LO	W	Qu	W	Surface Water Elev.	Groundwater Elev.	DEPTH	BL	LO	W	Qu	W
7		ft	729.38	H	S	tsf	%					H	S	tsf	%		
FILL - Black clayey Topsoil 728.28																	
FILL - Black, brown and gray SILTY LOAM, moist A-4 726.38																	
FILL - Brown, gray and black CLAY, moist A-7-6 723.88																	
FILL - Brown and gray CLAY, little black clay, moist A-6/A-7-6 719.88																	
FILL - Black and brown CLAY, moist to very moist A-7-6 716.38																	
Stiff black SILTY CLAY (topsoil), very moist A-7-6 713.88																	
Very stiff gray and brown CLAY, moist A-7-6 711.38																	
Medium stiff brown and gray CLAY, very moist A-7-6 708.88																	
Very stiff brown CLAY, moist A-6 706.38																	
Very stiff brown and gray CLAY, moist A-6 704.38																	

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = \\V756-204\_Lombard - gwt\_bridges phase 11\cadd sheets\structural\ST CHARLES\0223121-026-SDIL BORING LOGS.dgn

	USER NAME = gonzo	DESIGNED SRT	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b> <b>ST. CHARLES ROAD</b>	<b>SOIL BORING LOGS 6 &amp; 7</b> <b>STRUCTURE NO. 022-3121</b> SHEET NO. 26 OF 29 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED JJI	REVISED -			06-00151-00-BR	DuPAGE	201	143	
	PLOT DATE = 7/26/2011	DRAWN GM	REVISED -			CONTRACT NO. 63568				
		CHECKED JJI	REVISED -			ILLINOIS FED. AID PROJECT				





Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 7/15/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges and Retaining Walls Date Completed 7/15/09  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-73.695  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5-SE 1/4, TWP. 39N, RNG. 11E

Boring No.	DEPTH	BL	W	Qu	S	P	W	Surface Water Elev.
Station	ft	tsf	tsf	tsf	tsf	tsf	%	Groundwater Elev.:
Offset								when drilling
Surface Elev.								at Completion
								after
								Hrs.
213								
	714.20							
FILL - Blk clayey TOPSOIL (CL) A-7-6								
		4		P			23.4	
		3					2.0	
	712.40							
Very stiff brown and gray CLAY, little gravel, moist (CL) A-6								
		5		P			19.9	
		7					2.5	
		6						
		4		P			17.0	
		8					3.0	
		6						
	706.90							
Med. stiff to stiff gray CLAY, trace gravel, very moist (CL) A-7-6								
		2		P			19.1	
		4					1.0	
		3						
	704.90							
End of Boring at 10.0'								

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1  
Date Started 7/15/09

ROUTE \_\_\_\_\_ DESCRIPTION Great Western Trail Bridges and Retaining Walls Date Completed 7/15/09  
SECT. \_\_\_\_\_ STRUCT. NO. \_\_\_\_\_ DRILLED BY TSC L-73.695  
COUNTY DuPage LOCATION \_\_\_\_\_ S. 5-SE 1/4, TWP. 39N, RNG. 11E

Boring No.	DEPTH	BL	W	Qu	S	P	W	Surface Water Elev.
Station	ft	tsf	tsf	tsf	tsf	tsf	%	Groundwater Elev.:
Offset								when drilling
Surface Elev.								at Completion
								after
								Hrs.
214								
	722.80							
FILL - Black clayey TOPSOIL (CL)								
		4		P			17.3	
		3					4.5+	
		8						
	719.50							
FILL - Brown and black CLAY, trace gravel, trace organic, moist (CL) A-4								
		6		P			19.5	
		7					3.5	
		10						
		9		P			22.6	
		4					4.5+	
		6						
		7		P			22.7	
		9					4.0	
		10						
	711.50							
Med. stiff brown and gray CLAY, very moist (CL/CH) A-7-6								
		2		P			30.1	
		3					0.75	
		3						
	709.00							
Very stiff gray CLAY, little gravel, moist (CL) A-7-6								
		9		P			16.0	
		8					3.5	
		12						
	707.00							
End of Boring at 15.0'								

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

FILE NAME = s:\V756-904\_lombard - get bridges phase 1\odd sheets\structure\11.CHARLES\0223121-025-SOIL BORING LOGS.dgn



USER NAME = gonzalo  
PLOT SCALE =  
PLOT DATE = 7/26/2011

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CHECKED JJI  
DRAWN GM  
CHECKED JJI

REVISED -  
REVISED -  
REVISED -  
REVISED -

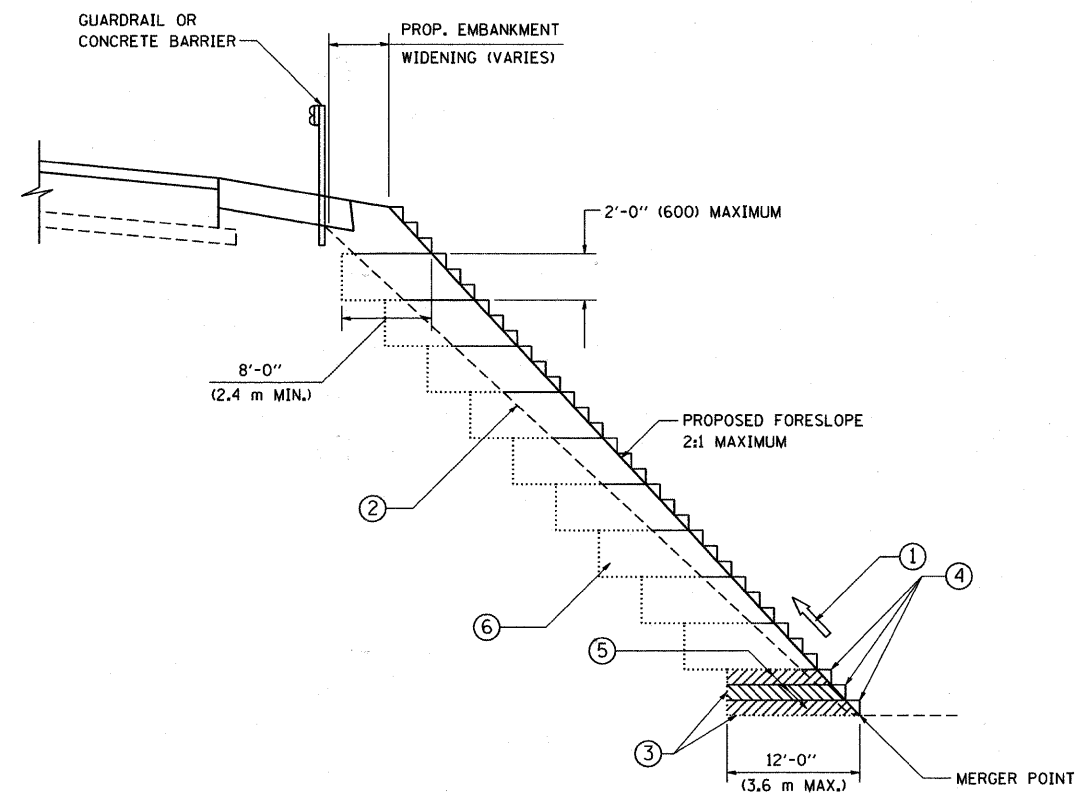
STATE OF ILLINOIS  
GREAT WESTERN TRAIL  
ST. CHARLES ROAD

SOIL BORING LOGS 213 & 214  
STRUCTURE NO. 022-3121

SHEET NO. 29 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	146
			CONTRACT NO. 63568	
ILLINOIS FED. AID PROJECT				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00151-00-BR	DUPAGE		201	147
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

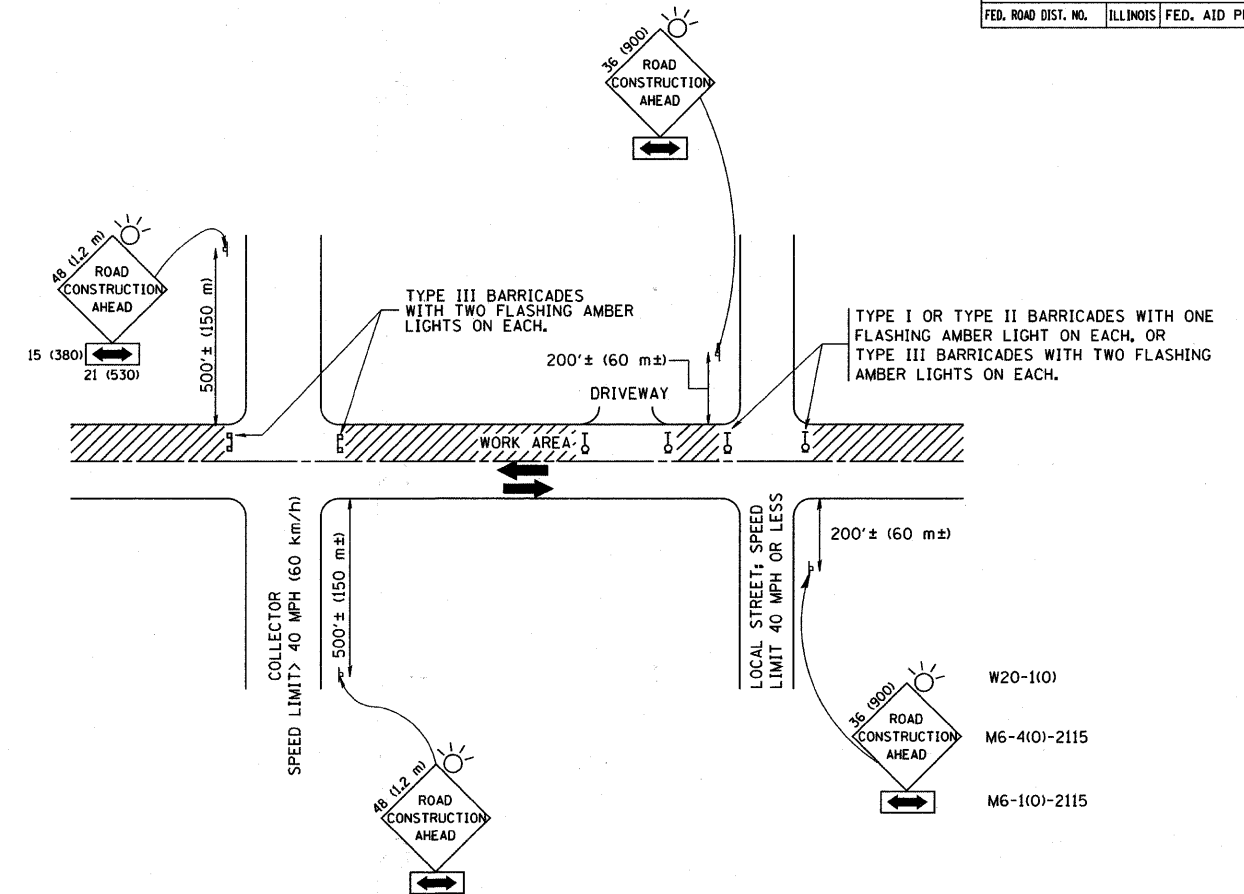
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
	06/16/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BENCHING DETAIL FOR EMBANKMENT WIDENING**

SCALE: VERT. NONE  
 HORIZ.  
 DRAWN BY: CADD  
 CHECKED BY: S.E.B.  
 BD-51

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	148
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

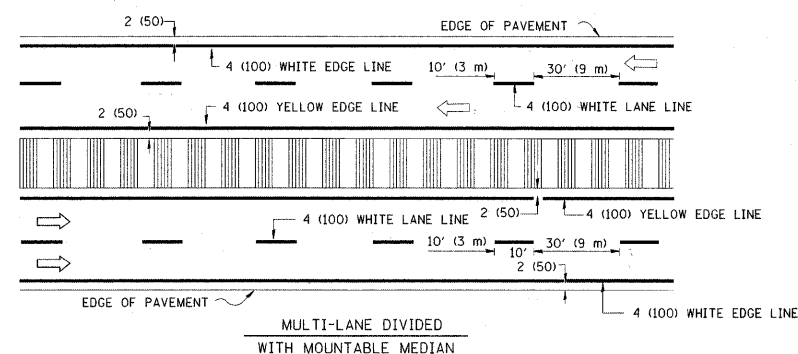
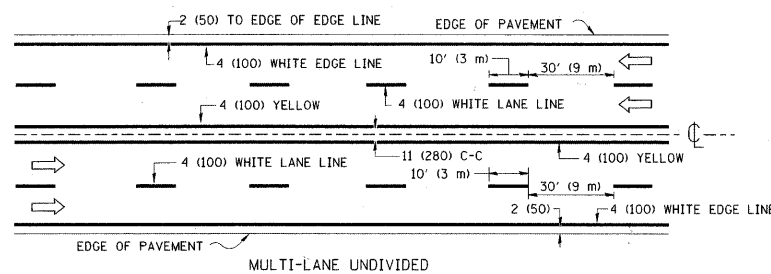
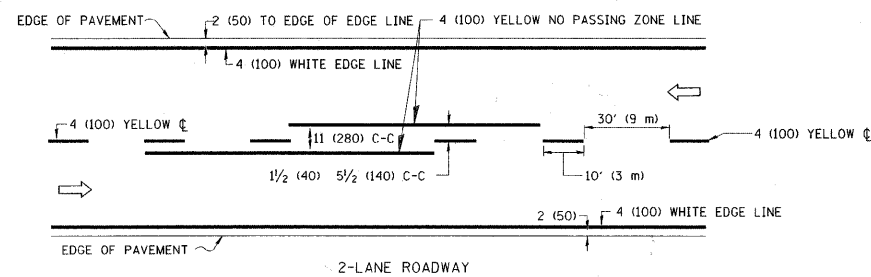
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL AND PROTECTION  
FOR  
SIDE ROADS, INTERSECTIONS, AND  
DRIVEWAYS

SCALE: NONE

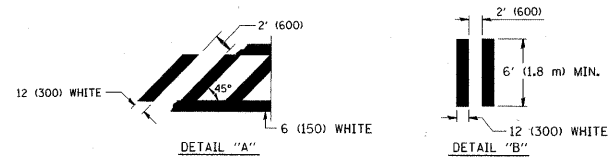
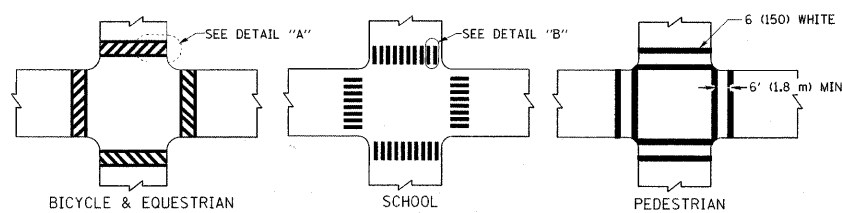
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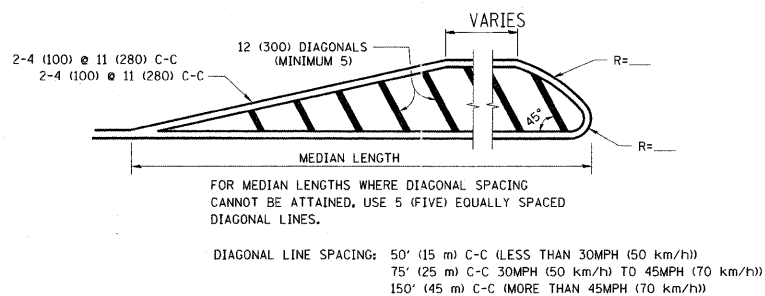
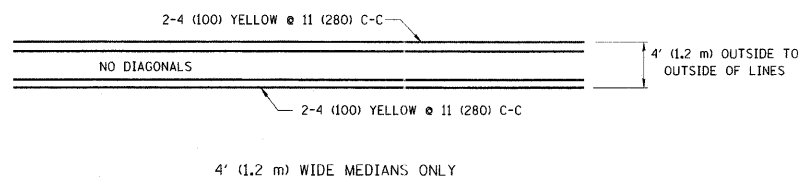


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

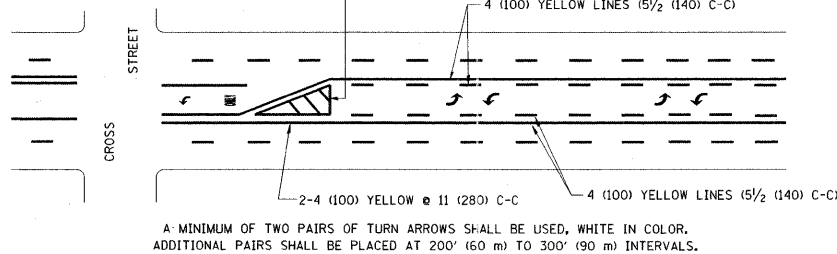
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

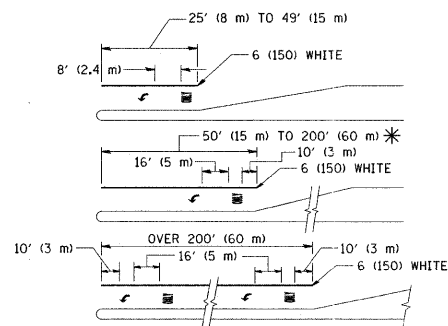


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

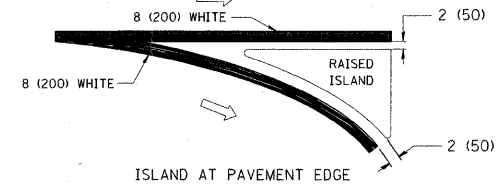
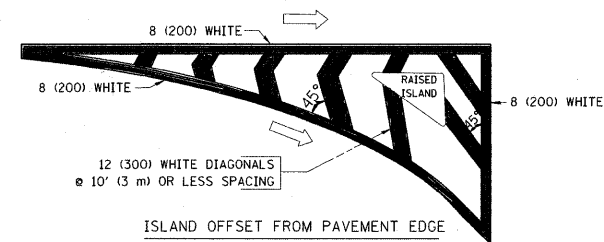


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



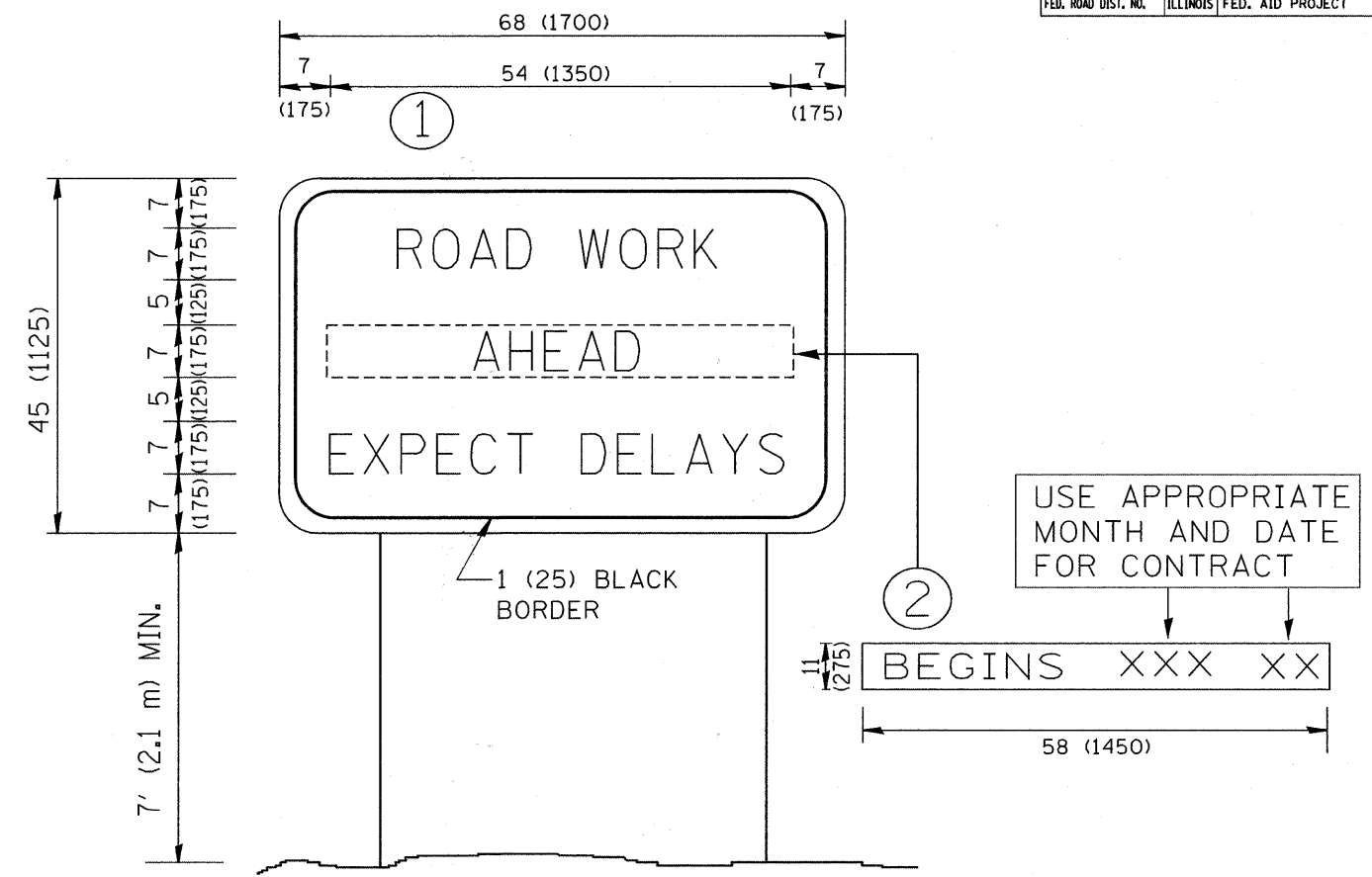
TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	150
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

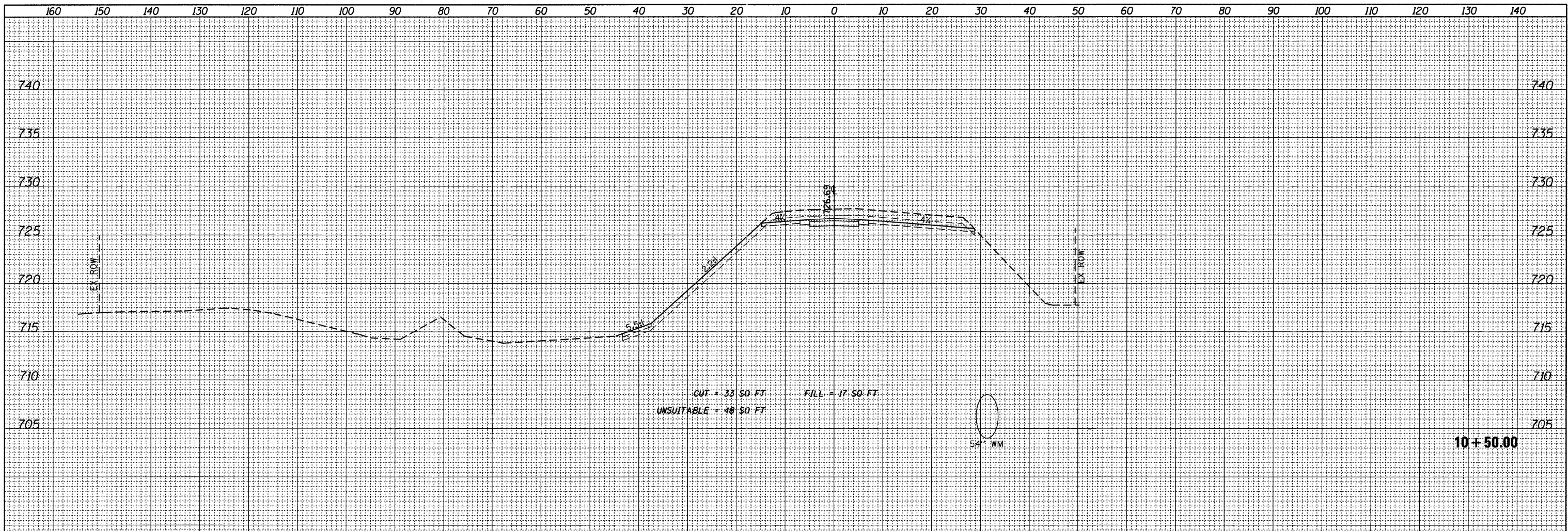
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

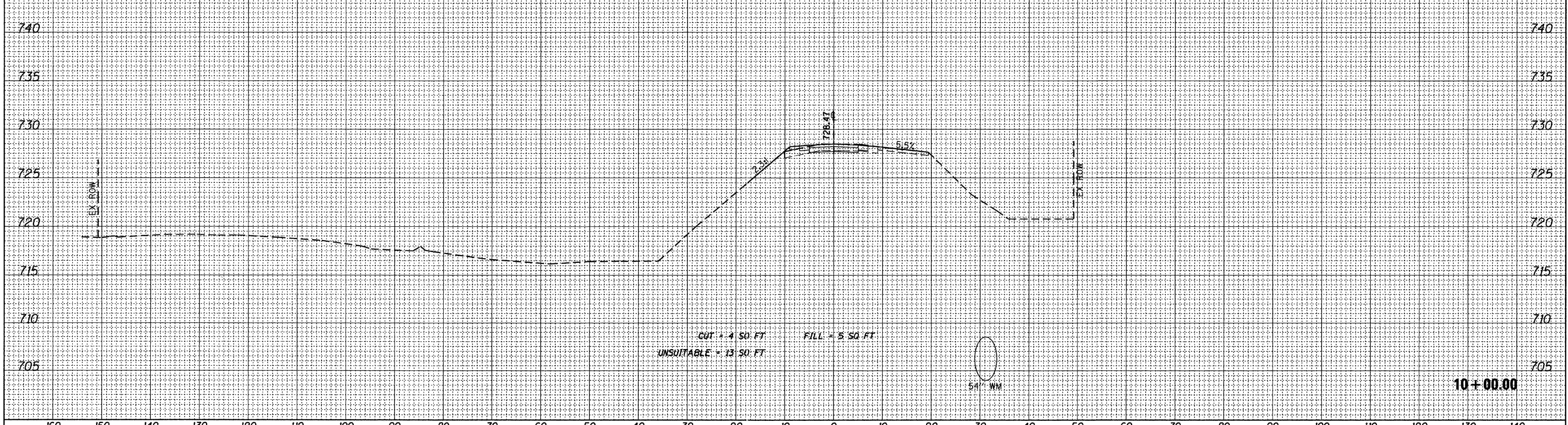
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ARTERIAL ROAD  
 INFORMATION SIGN**

SCALE: NONE  
 DRAWN BY DESIGN  
 CHECKED BY  
 TC22

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	



ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	



FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase I\NCADD

USER NAME = daly  
DESIGNED - JPS  
DRAWN - JPS  
CHECKED - BD  
DATE -

REVISIONS  
REVISOR  
REVISION  
REVISOR  
REVISION

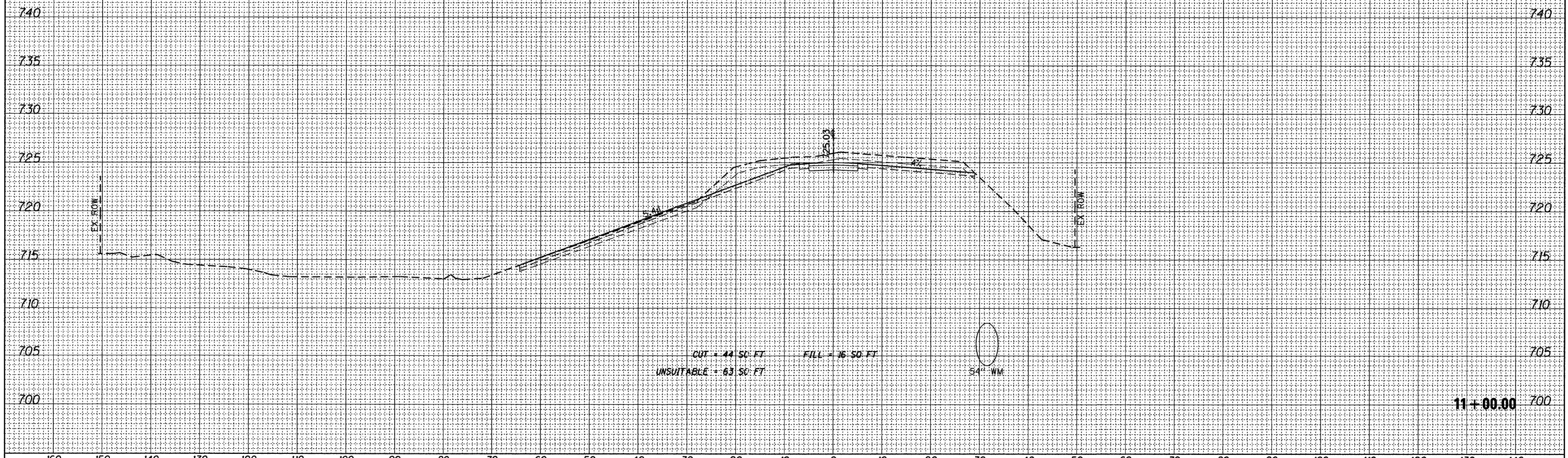
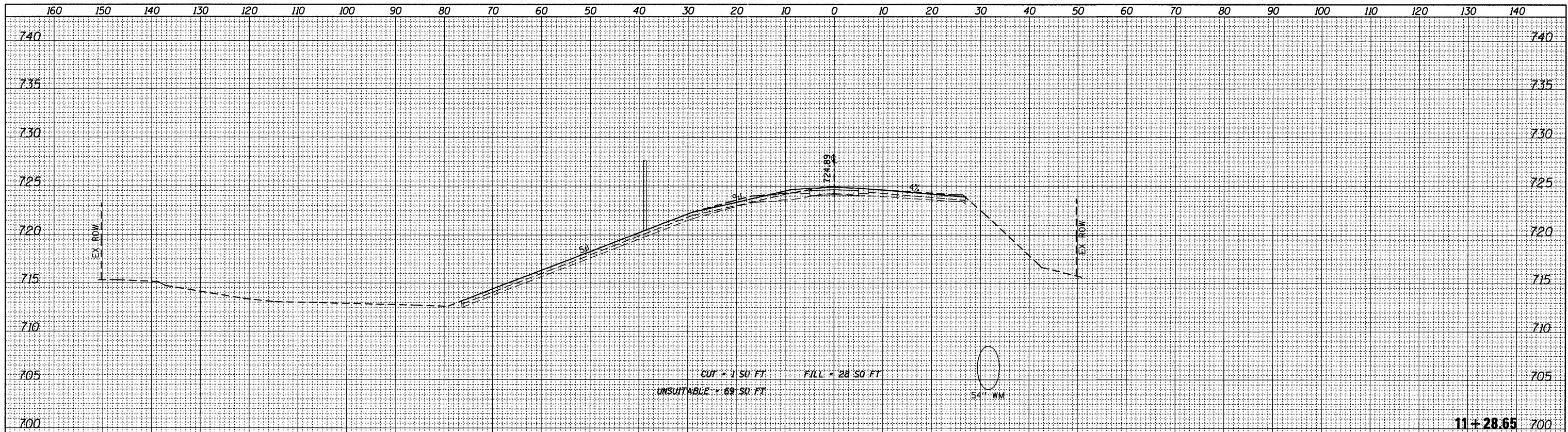
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
CROSS SECTIONS**  
1"=10' HORIZ.  
SCALE: 1"=5' VERT.  
SHEET NO. 1 OF 51 SHEETS  
STA. 10+00.00 TO STA. 10+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	151
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	

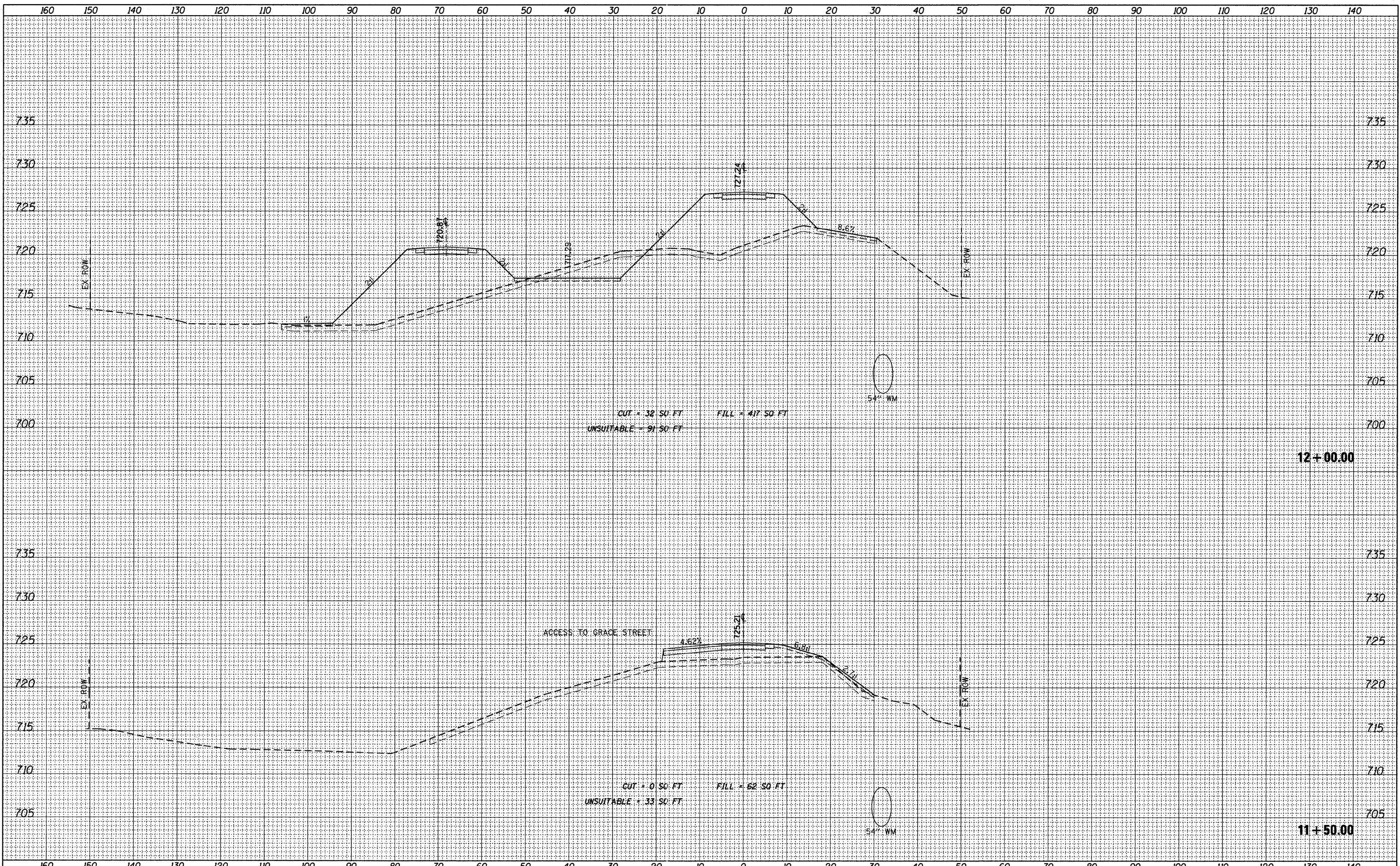
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	06-00151-00-BR	DUPAGE	201	152				
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -		SCALE: 1"=5' VERT.	SHEET NO. 2 OF 51 SHEETS	STA. 11+00.00	TO STA. 11+28.65	CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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USER NAME = daly  
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 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = 7/22/2011

DESIGNED - JPS  
 DRAWN - JPS  
 CHECKED - BD  
 DATE -

REVISED -  
 REVISED -  
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 REVISED -

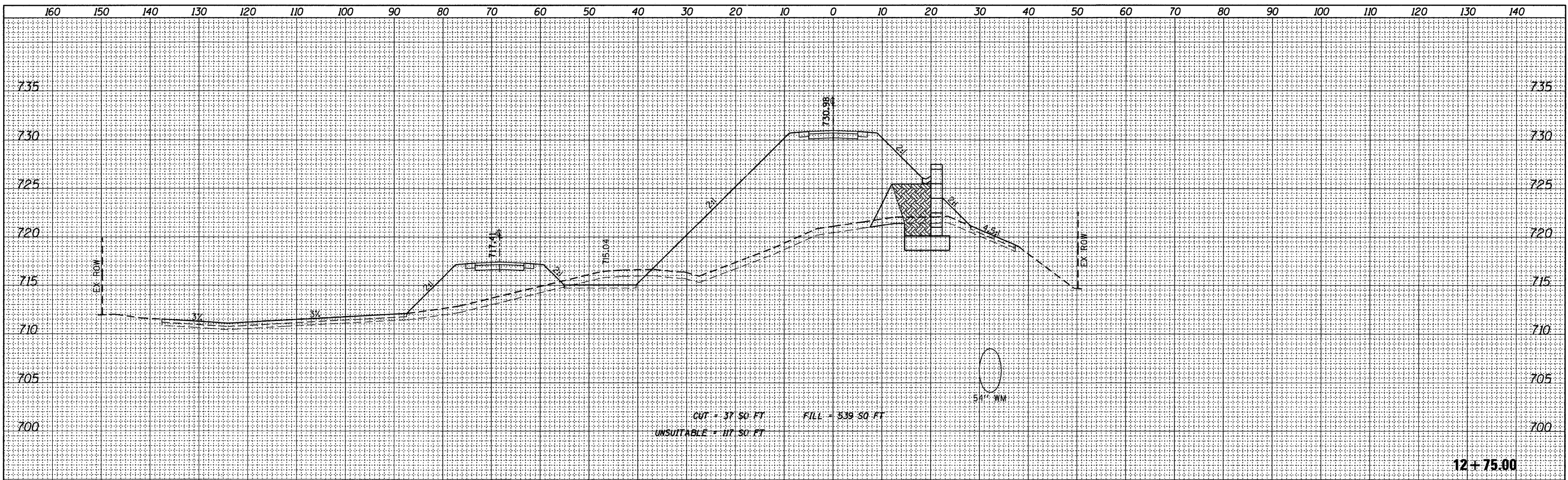
**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
 CROSS SECTIONS**

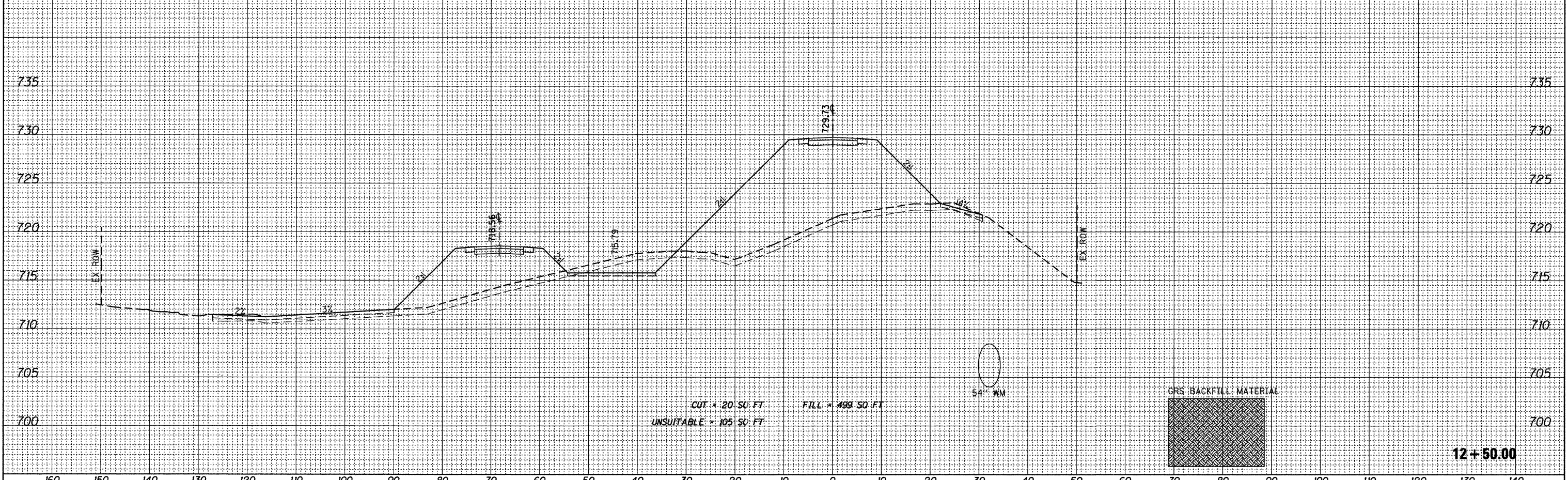
1"=10' HORIZ.  
 SCALE: 1"=5' VERT. SHEET NO. 3 OF 51 SHEETS STA. 11+50.00 TO STA. 12+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR		201	153
			DUPAGE	CONTRACT NO. 63568
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TIME	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TIME	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = W:\756-004-Lombard - GWT Bridges Phase II\CADD  
 USER NAME = dely  
 SHEETS\DL756004-sht-xsec.dgn  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = 7/22/2011

DESIGNED -	JPS	REVISED -	
DRAWN -	JPS	REVISED -	
CHECKED -	BD	REVISED -	
DATE -		REVISED -	

**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL**

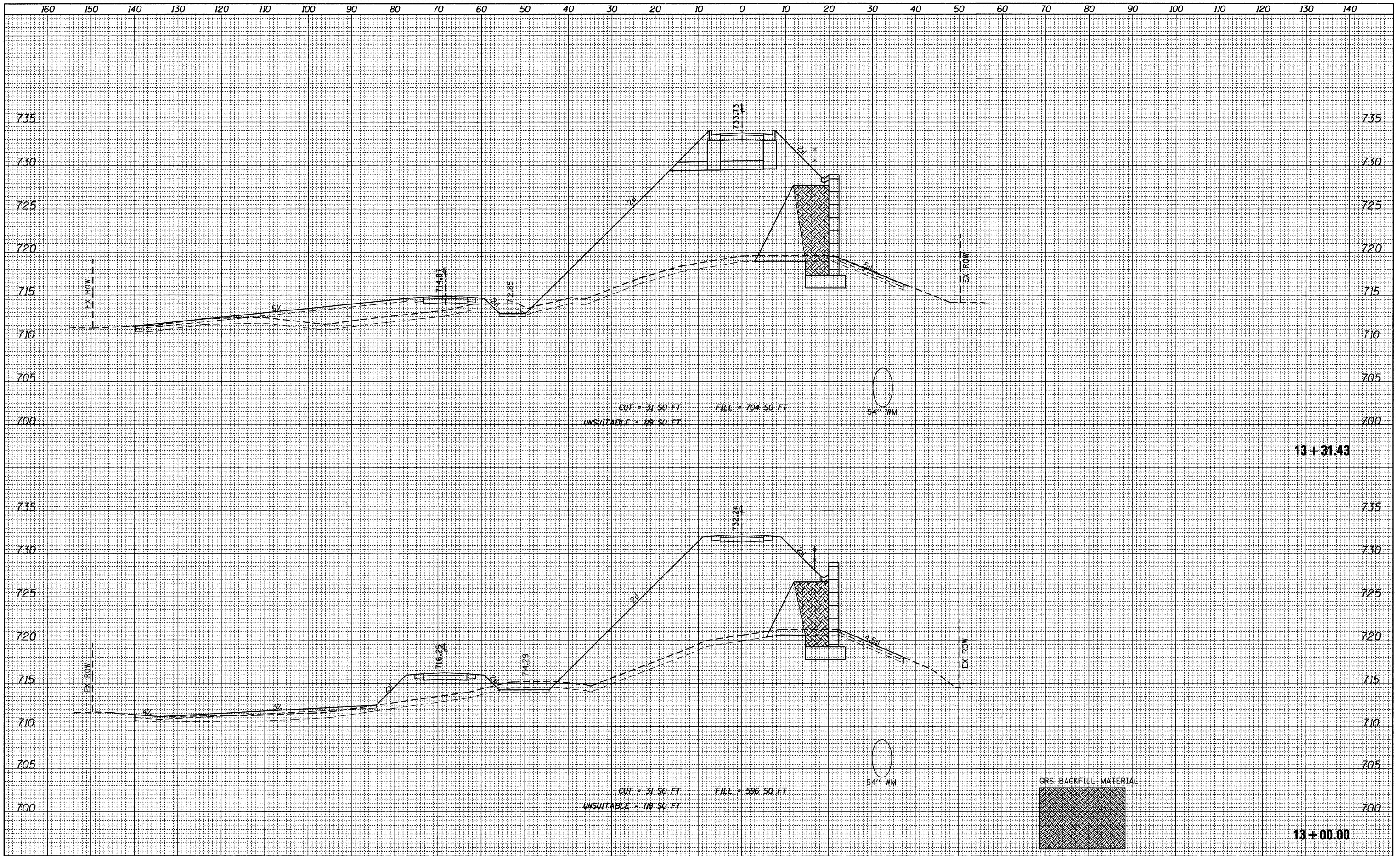
**GREAT WESTERN TRAIL  
 CROSS SECTIONS**

1"=10' HORIZ.  
 SCALE: 1"=5' VERT. SHEET NO. 4 OF 51 SHEETS  
 STA. 12+50.00 TO STA. 12+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	154
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLotted	
DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

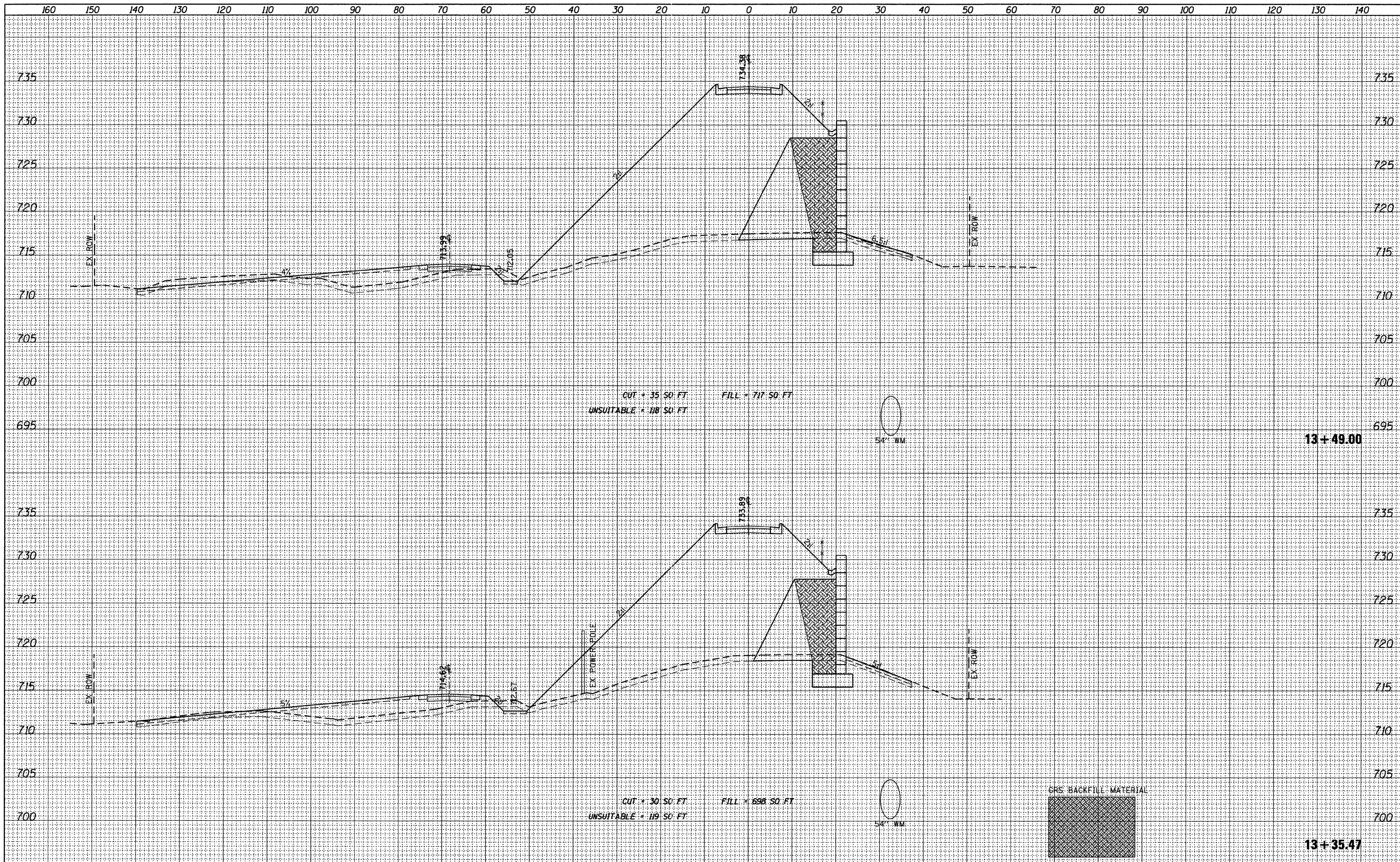
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BY	
SURVEYED	
PLotted	
DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -	06-00151-00-BR			DUPAGE	201	155		
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -								
PLOT DATE = 7/22/2011	DATE -	REVISED -								
SCALE: 1"=10' HORIZ. 1"=5' VERT. SHEET NO. 5 OF 51 SHEETS						STA. 13+00.00 TO STA. 13+31.43		CONTRACT NO. 63568		
ILLINOIS FED. AID PROJECT										

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
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NOTE BOOK	
NO.	

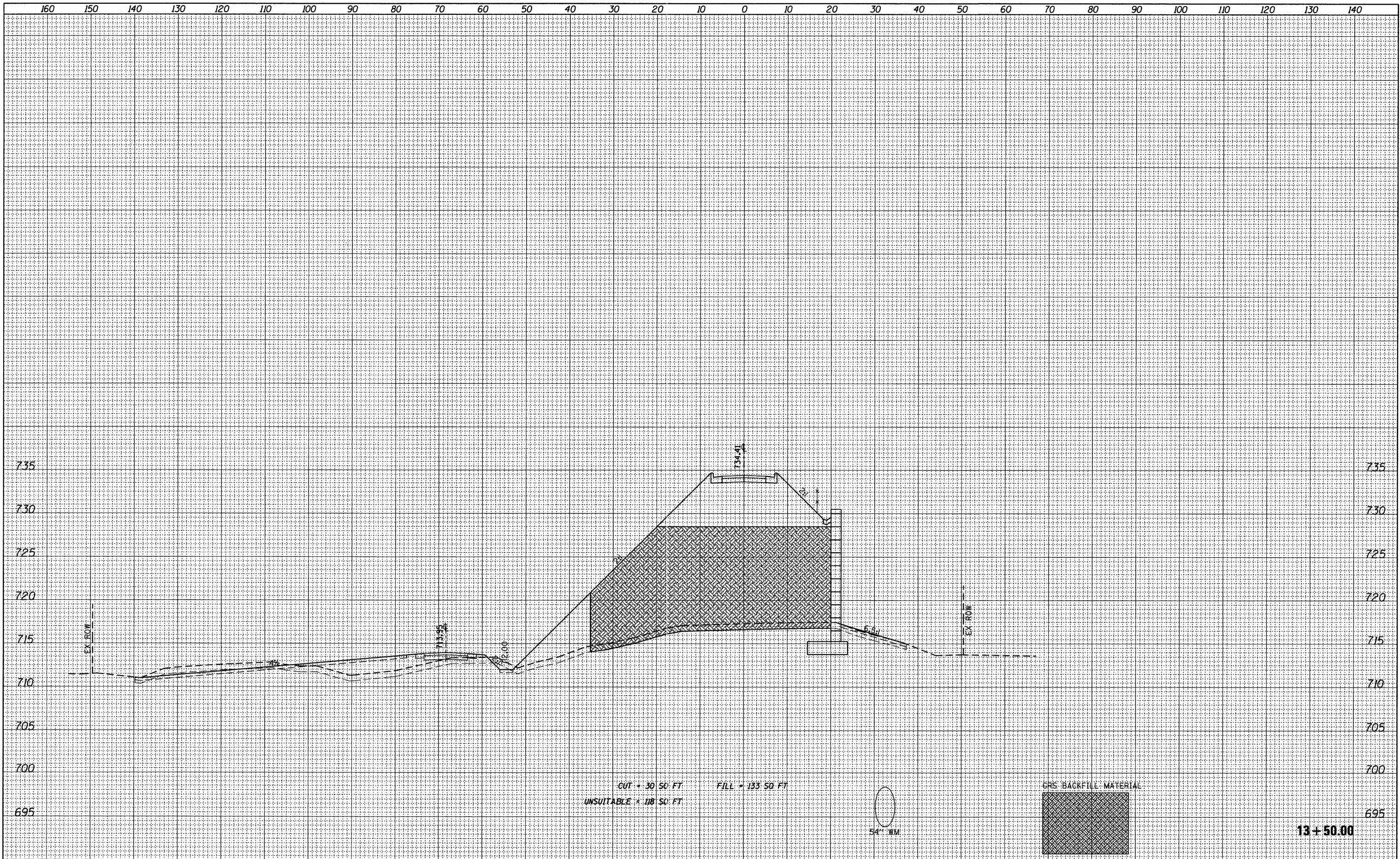


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Sheets\DL756004-sht-xsec.dgn	DRAWN - JPS	REVISED -	06-00151-00-BR			DUPAGE	201	156		
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PLOT DATE = 7/22/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 6 OF 51 SHEETS					STA. 13+35.47 TO STA. 13+49.00					



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	AREAS	
	CHECKED	

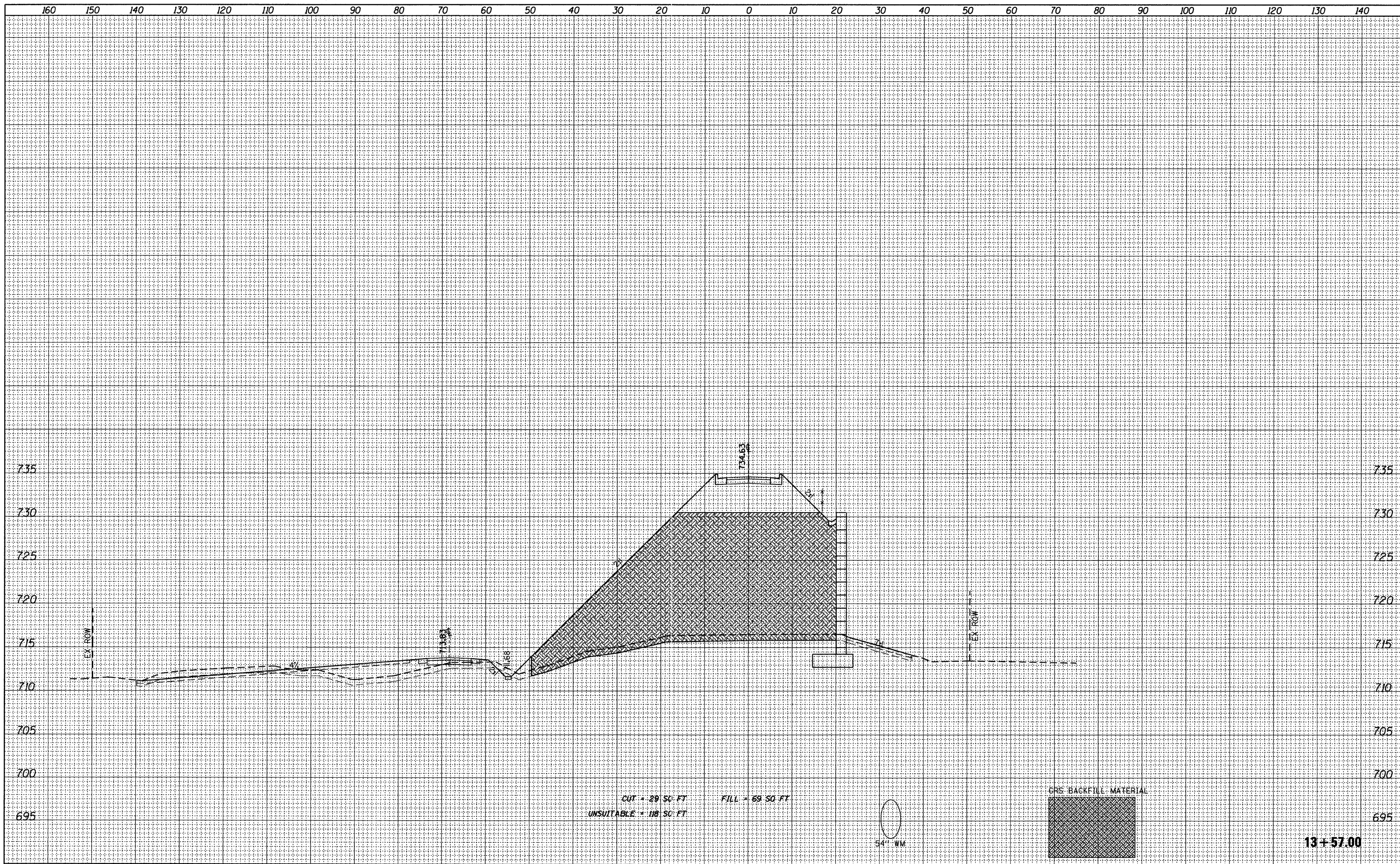
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	AREAS	
	CHECKED	



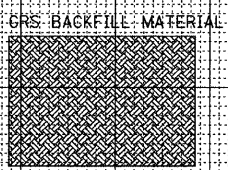
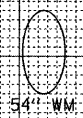
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	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	



CUT = 29 SQ. FT.      FILL = 69 SQ. FT.  
 UNSUITABLE = 118 SQ. FT.

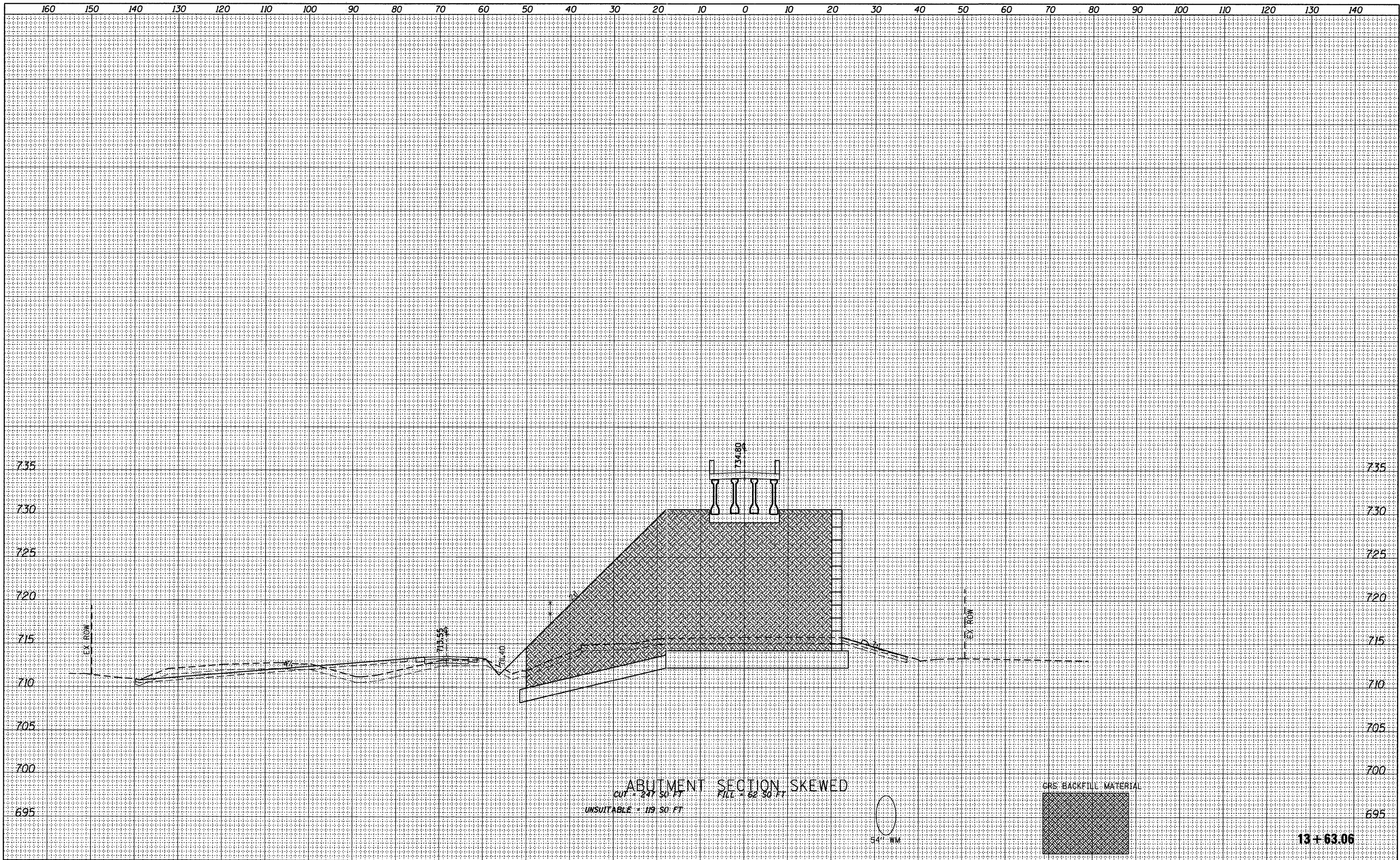


13+57.00

FILE NAME =	USER NAME = dajj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: 1"=5' VERT. SHEET NO. 8 OF 51 SHEETS		STA. 13+57.00 TO STA. 13+57.00				

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

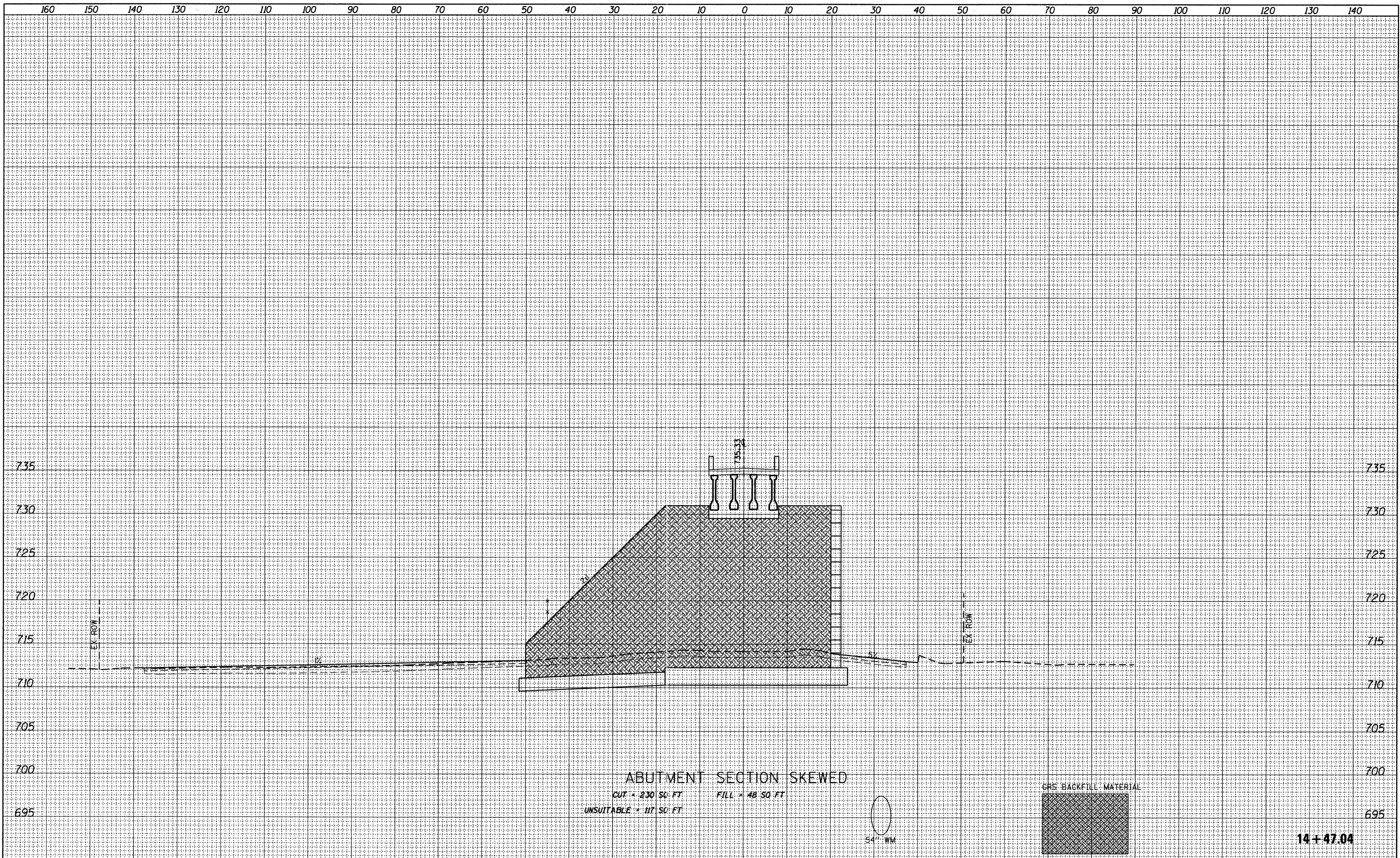
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
REVISION DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

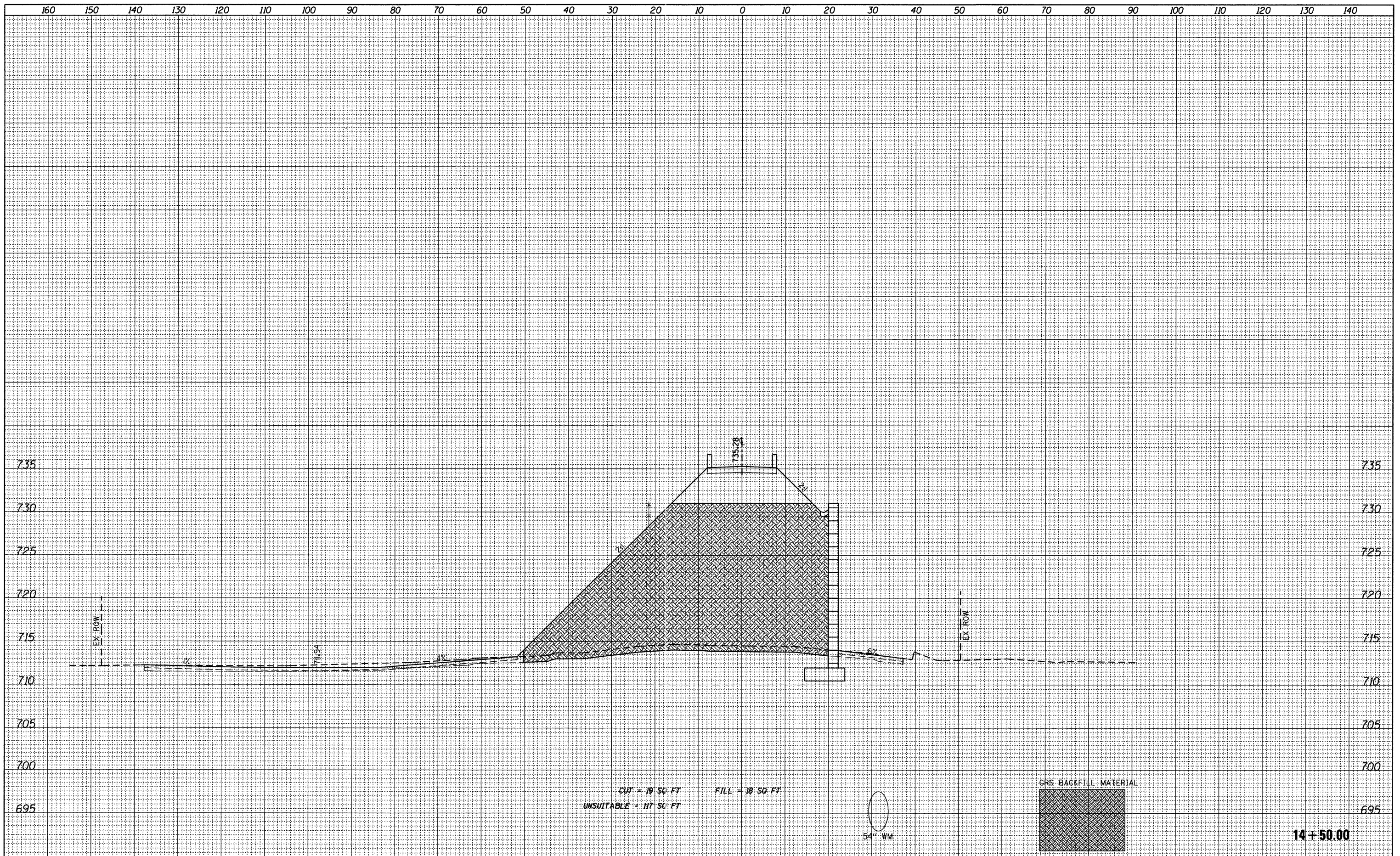
DATE	
BY	
SURVEYED	
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REVISION DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = dclj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 7/22/2011	DATE -	REVISED -			SHEET NO. 10 OF 51 SHEETS		STA. 14+47.04 TO STA. 14+47.04		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

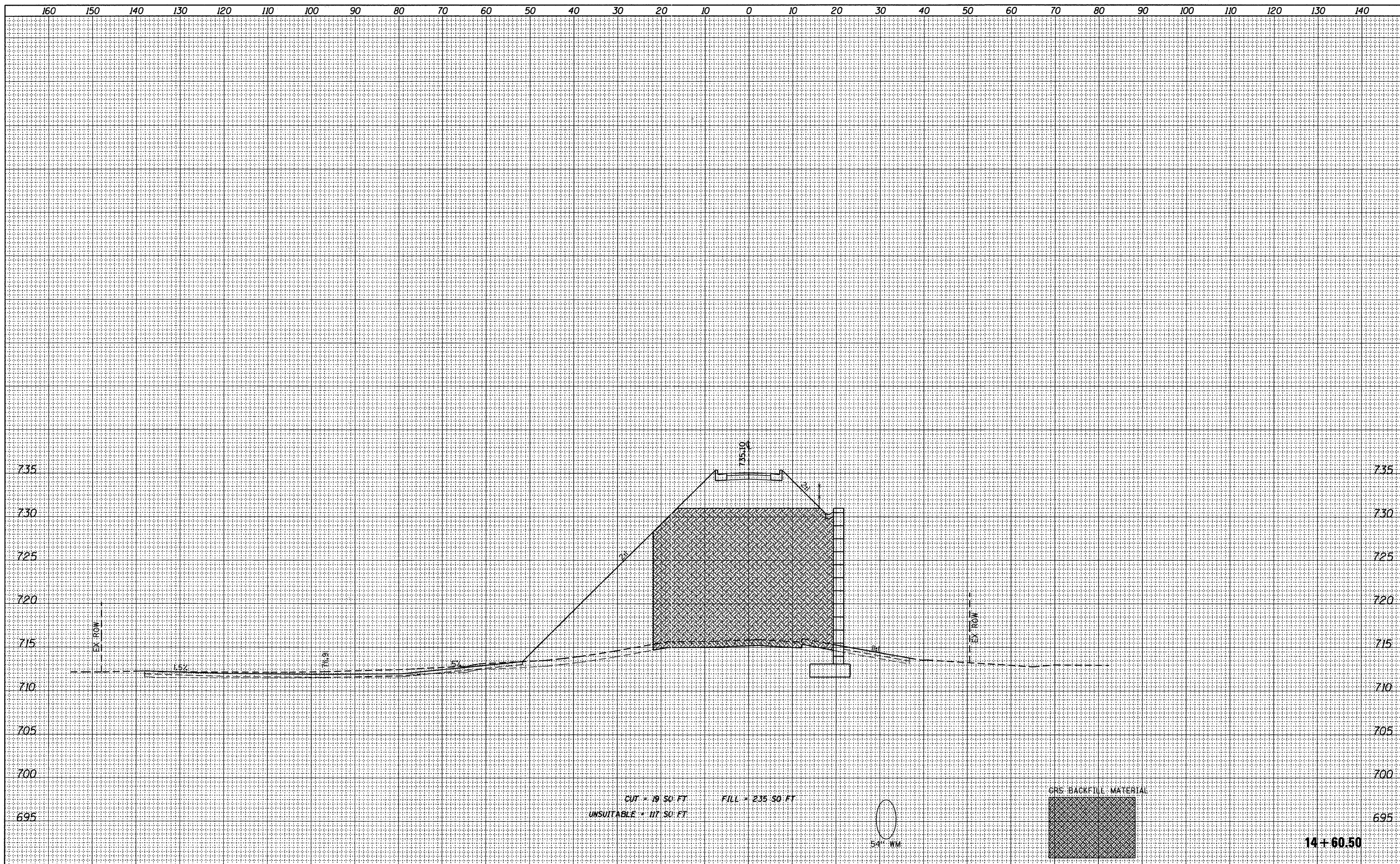
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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PLOT DATE = 7/22/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	

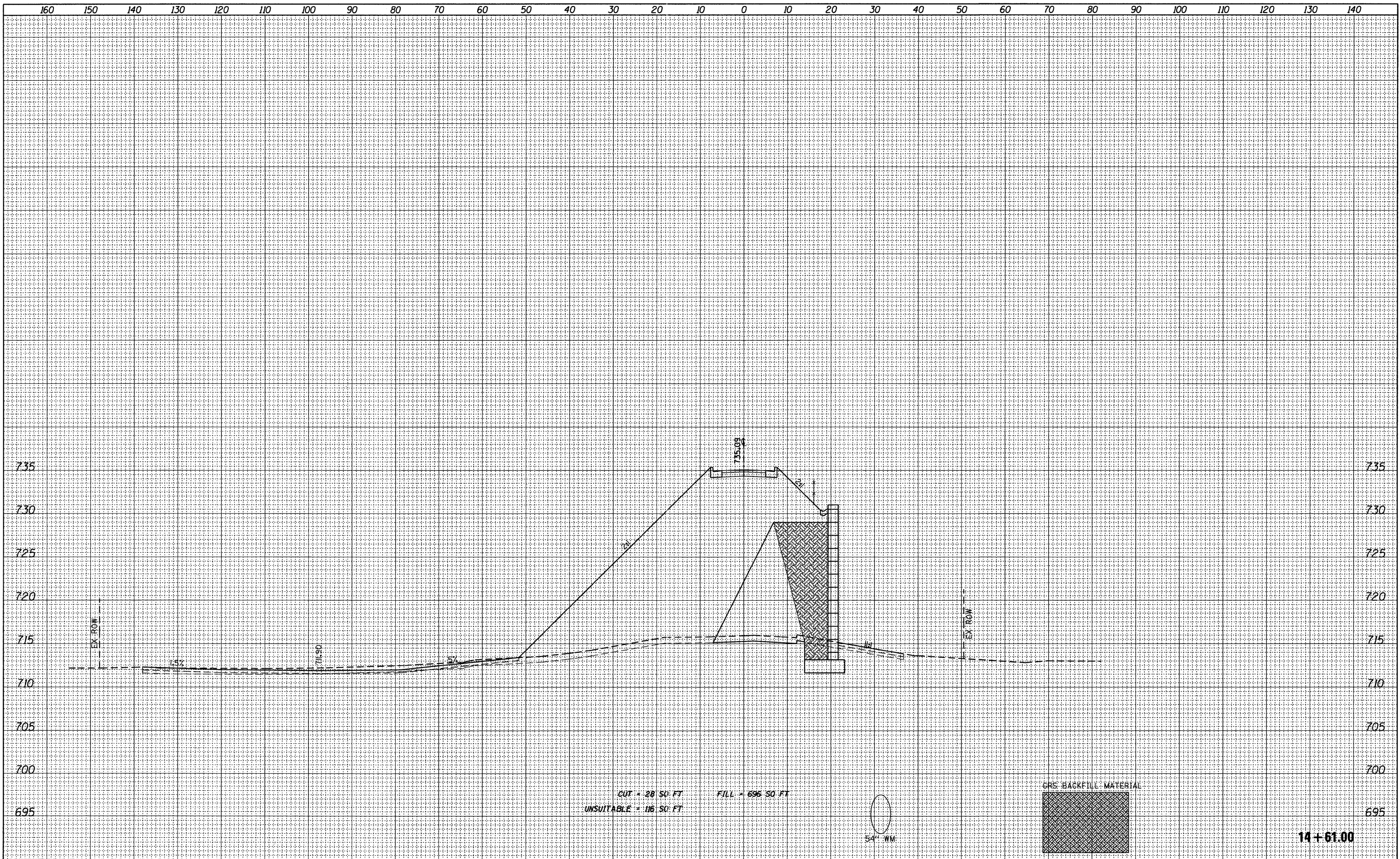
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
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FILE NAME = W:\756-004.Lombard - GWT Bridges Phase I\VCADD	USER NAME = dalj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -			CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

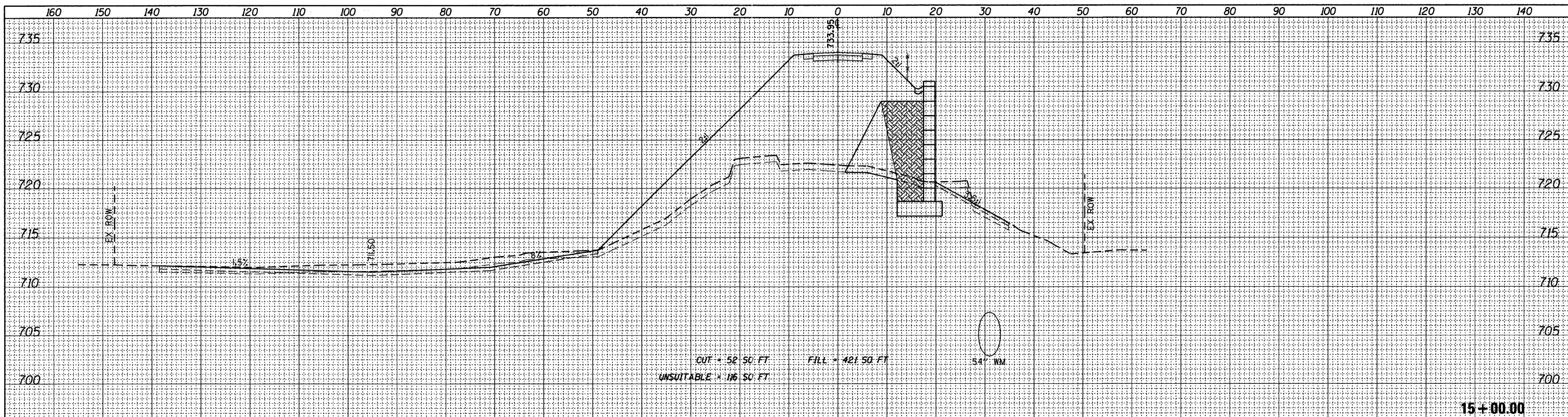
FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	



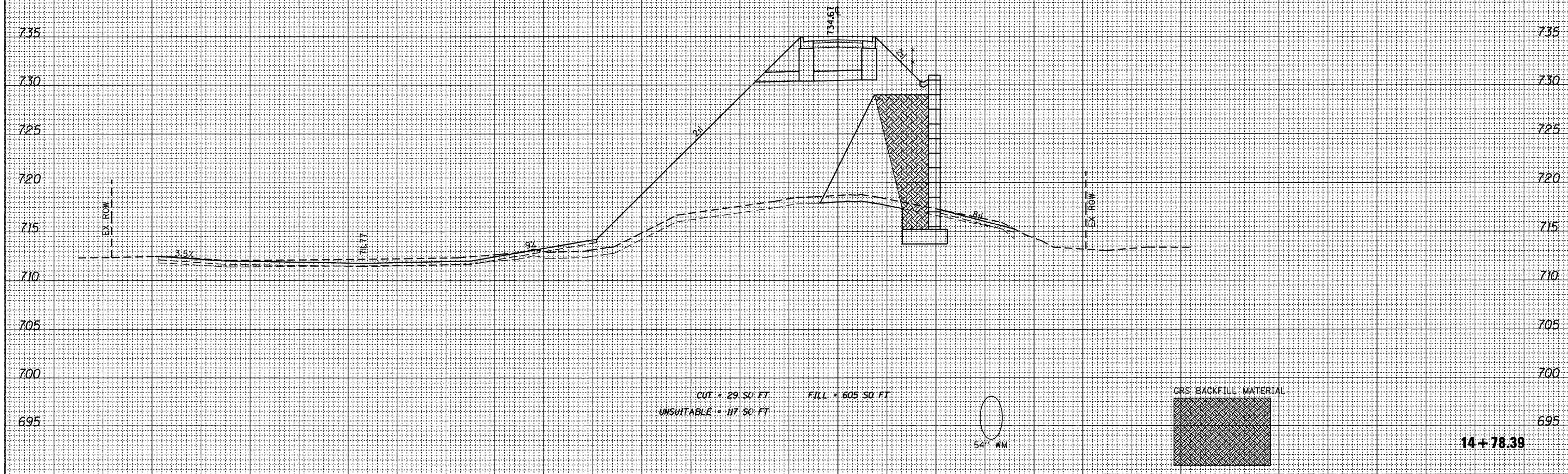
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	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -			CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
PLotted	
FILED	
DATE	
AREAS CHECKED	
NO.	



15 + 00.00

DATE	
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SURVEYED	
PLotted	
FILED	
DATE	
AREAS CHECKED	
NO.	



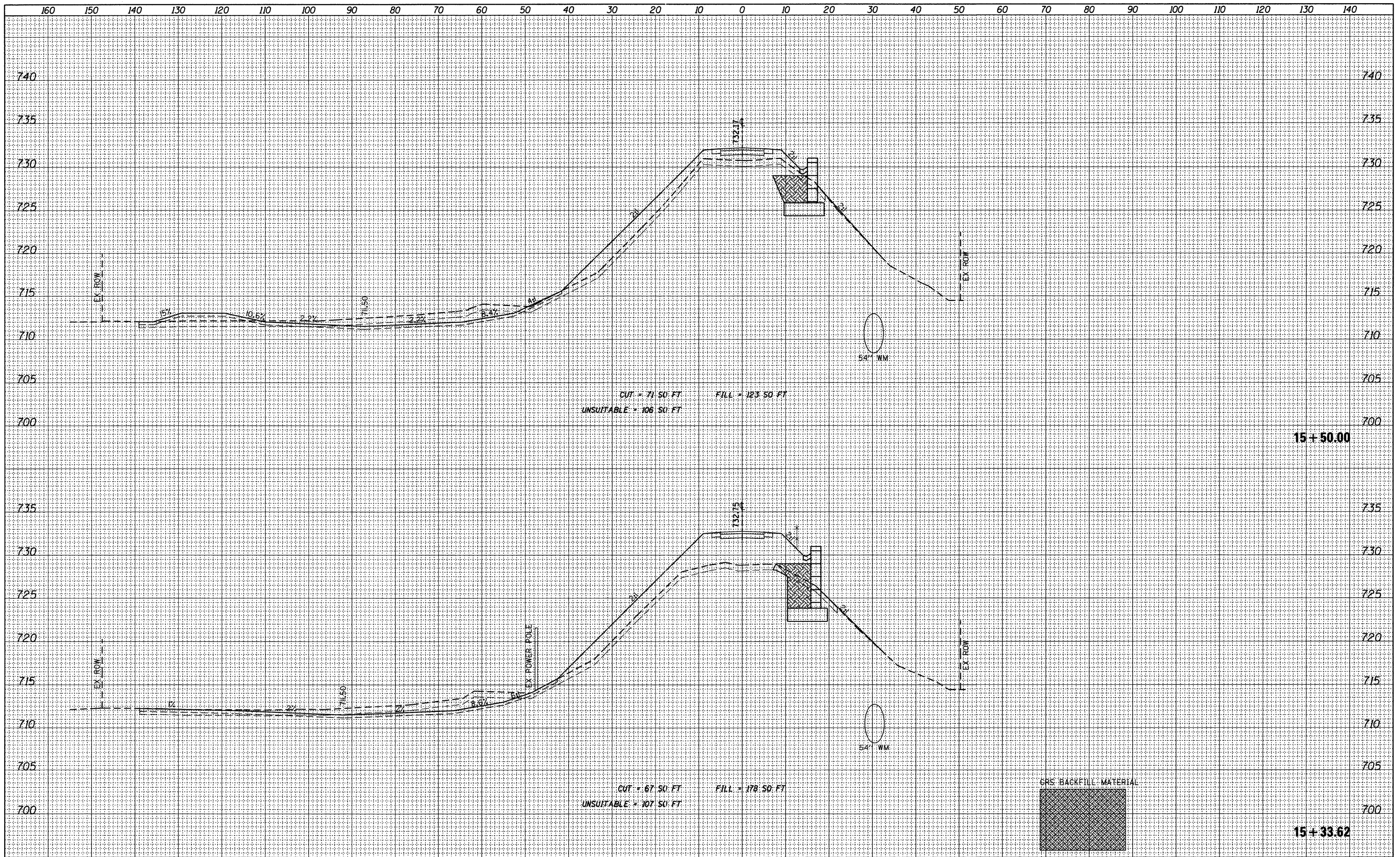
14 + 78.39

FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 7/22/2011	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: 1"=5' VERT. SHEET NO. 14 OF 51 SHEETS		STA. 14+78.39 TO STA. 15+00.00				



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

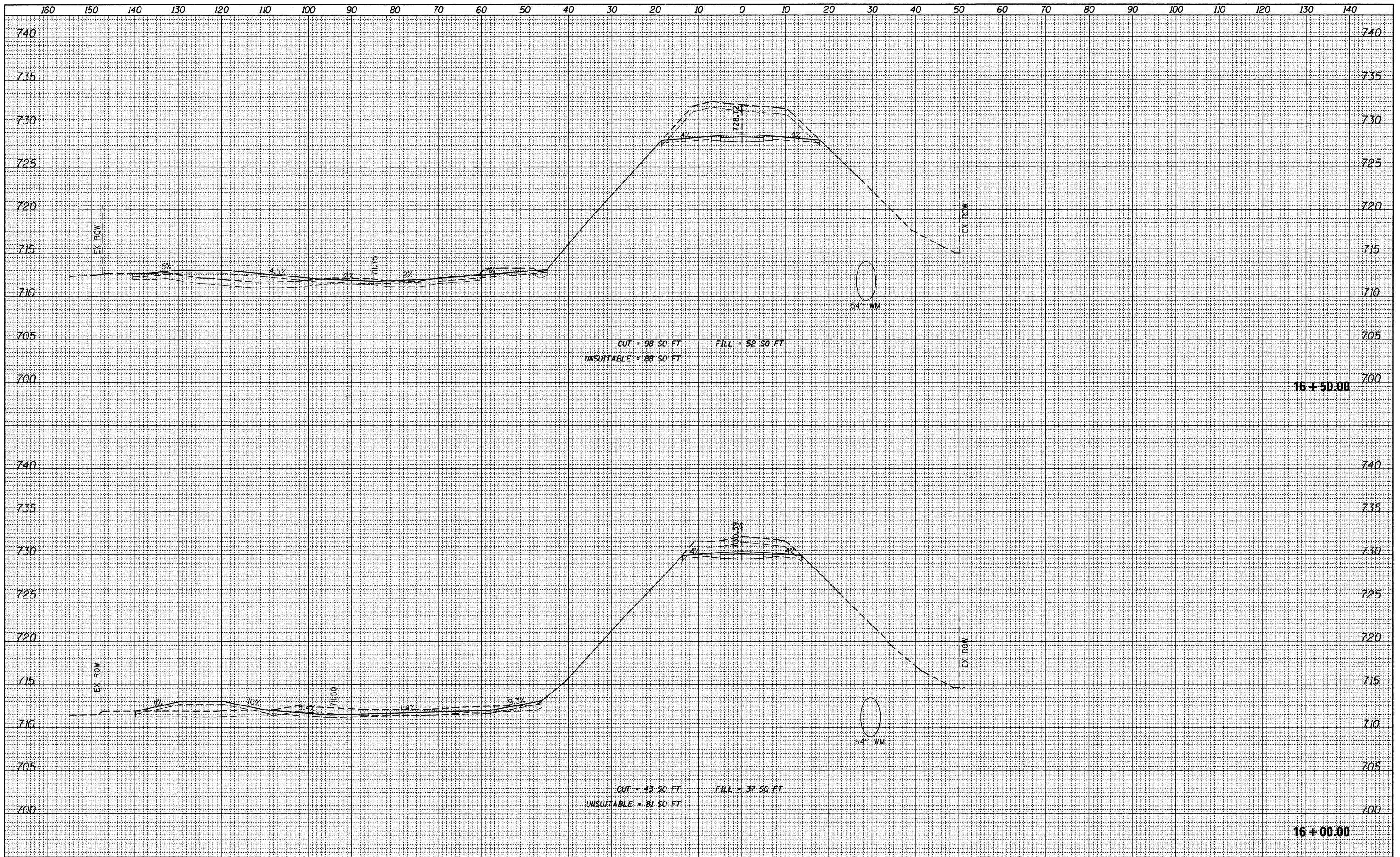
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = W:\756-004_Lombard - GWT Bridges Phase I\VCADD	USER NAME = dalj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b> 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 15 OF 51 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Sheets\01756004-shr-xsec.dgn	DRAWN - JPS	REVISED -	06-00151-00-BR			DUPAGE	201	165		
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -	CONTRACT NO. 63568							
PLOT DATE = 7/22/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

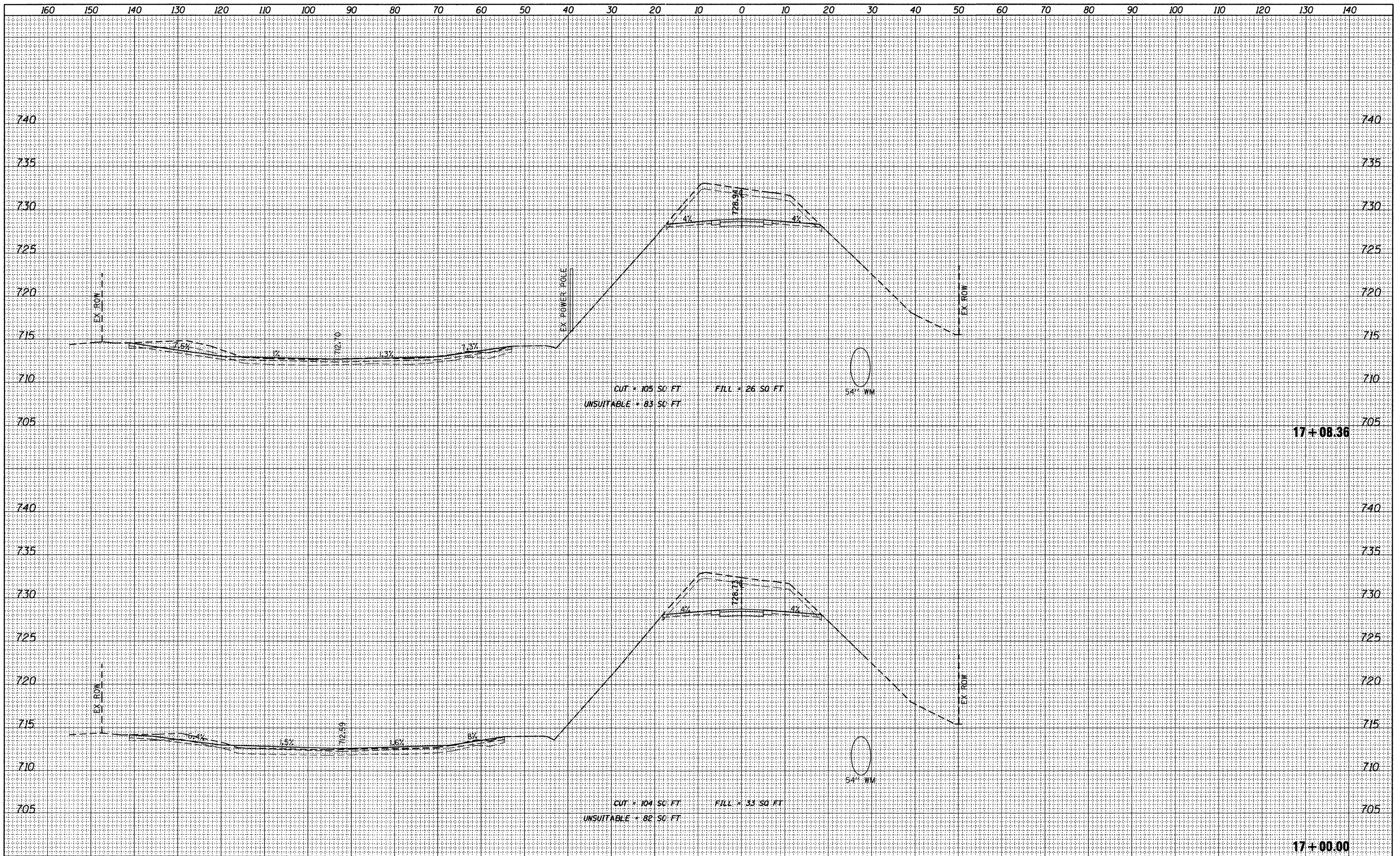
DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = W:\756-004-Lombard - GWT Bridges Phase II\CADD	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b> 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 16 OF 51 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -	06-00151-00-BR			DUPAGE	201	166		
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -								
PLOT DATE = 7/22/2011	DATE -	REVISED -								
						STA. 16+00.00 TO STA. 16+50.00		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
PLANT ID	
NOTE BOOK	
NO.	
AREAS CHECKED	

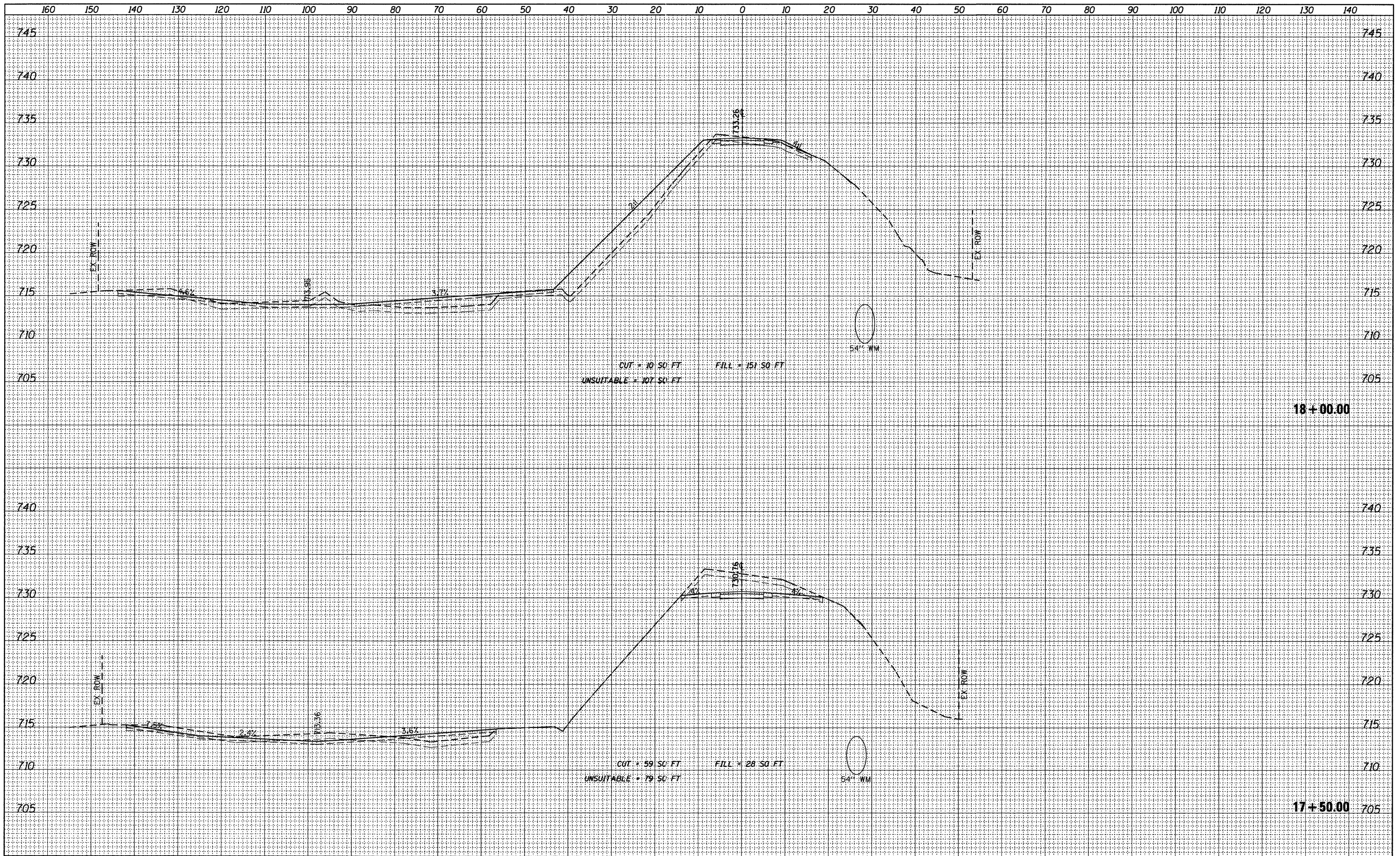
DATE	
BY	
ORIGINAL SURVEY	
PLANT ID	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = W:\756-004_Lombard - GWT Bridges Phase II\CADD	USER NAME = dslj Sheets\01756004-sht-xsec.dgn	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -	06-00151-00-BR			DUPAGE	201	167		
PLOT DATE = 7/22/2011	DATE -	REVISED -	CONTRACT NO. 63568							
			ILLINOIS FED. AID PROJECT							

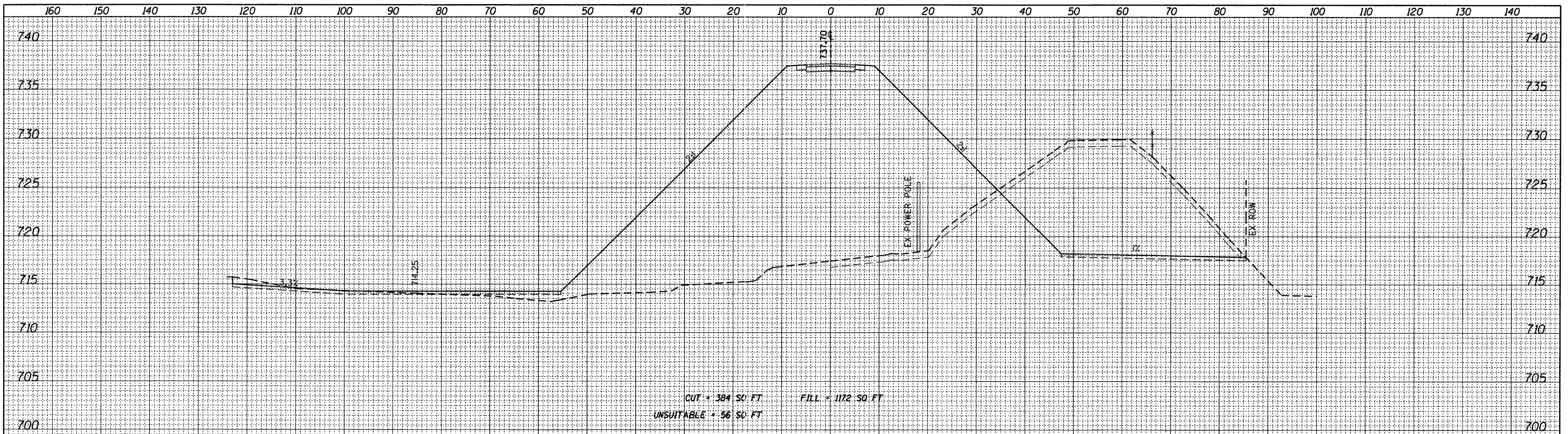
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	



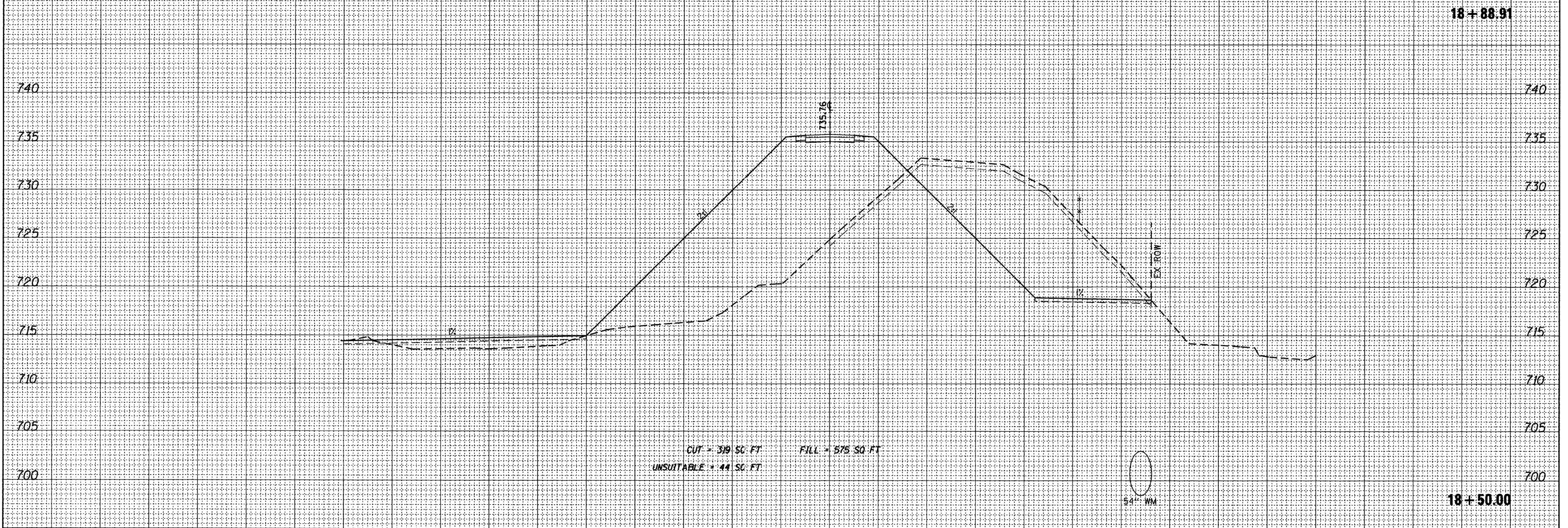
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Sheets\01756004-sht-xseo.dgn	DRAWN - JPS	REVISED -	06-00151-00-BR				DUPAGE	201	168		
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -	CONTRACT NO. 63568								
PLOT DATE = 7/22/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



18+88.91

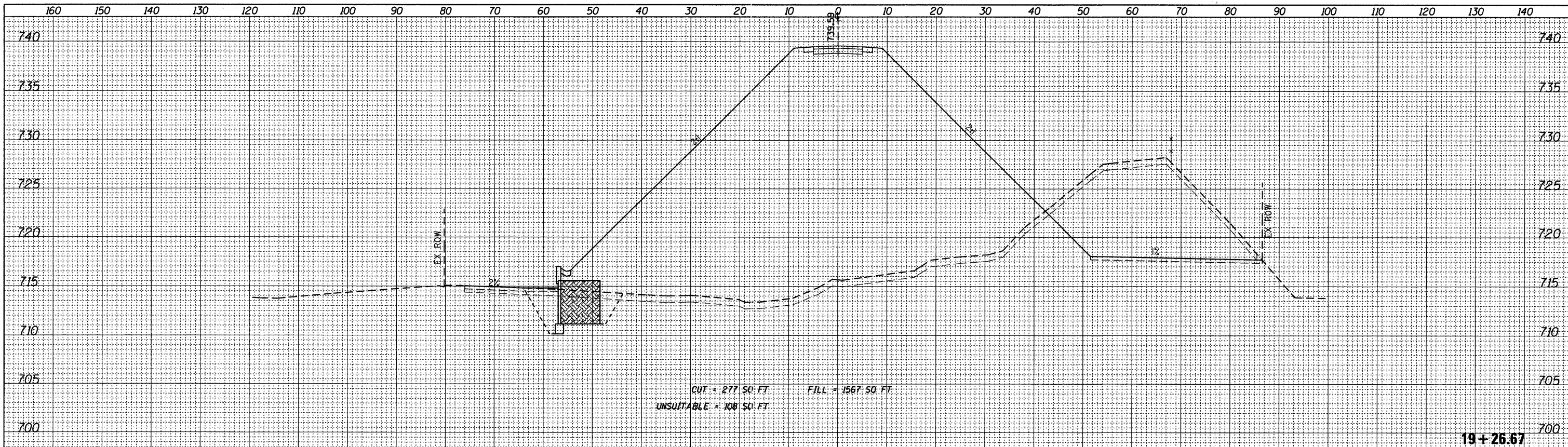
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



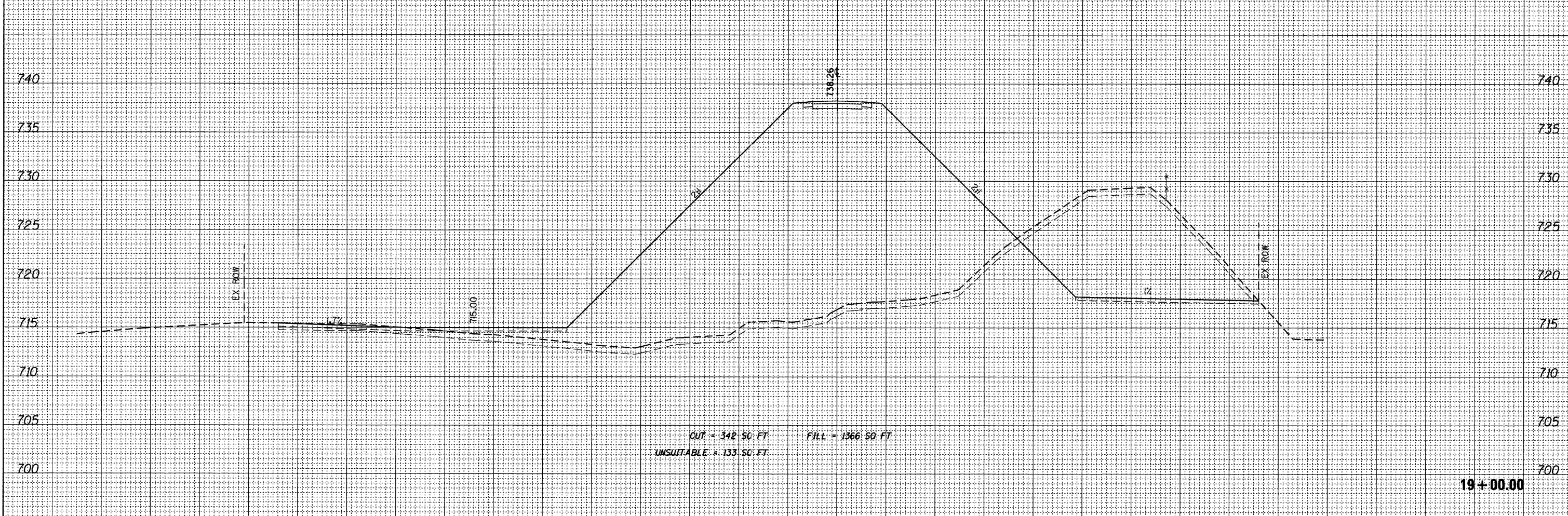
18+50.00

FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b></p>	<p align="center"><b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b></p>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	SHEET NO. 19 OF 51 SHEETS		06-00151-00-BR	DUPAGE	201	169
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -		SCALE: 1"=5' VERT.	STA. 18+50.00 TO STA. 18+88.91		CONTRACT NO. 63568		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 7/22/2011	DATE -	REVISED -								

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	



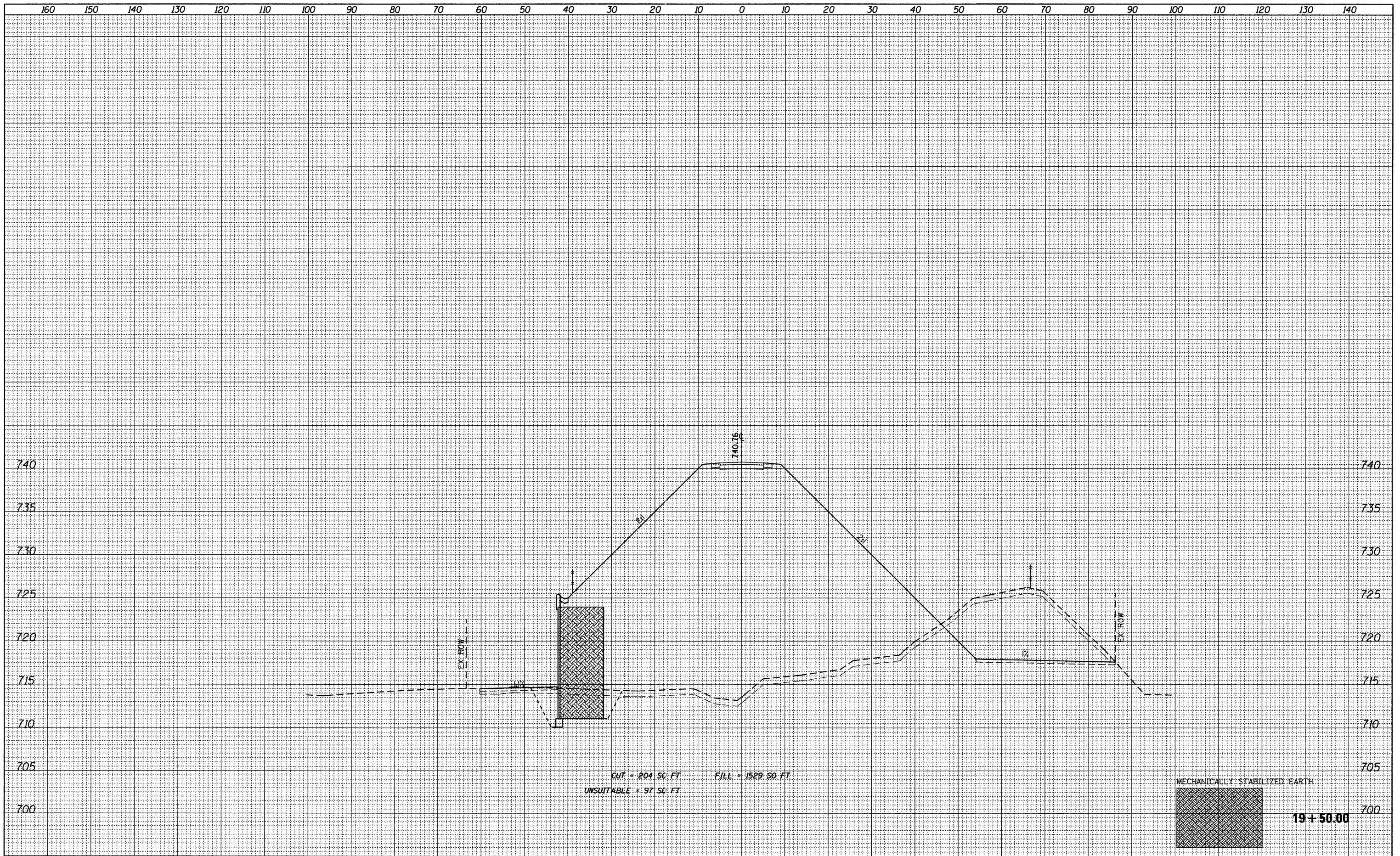
DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 06-00151-00-BR DuPAGE 201 170 CONTRACT NO. 63568
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -			
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -			
	PLOT DATE = 7/22/2011	DATE -	REVISED -			
				SCALE: 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 20 OF 51 SHEETS		STA. 19+00.00 TO STA. 19+26.67
						ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

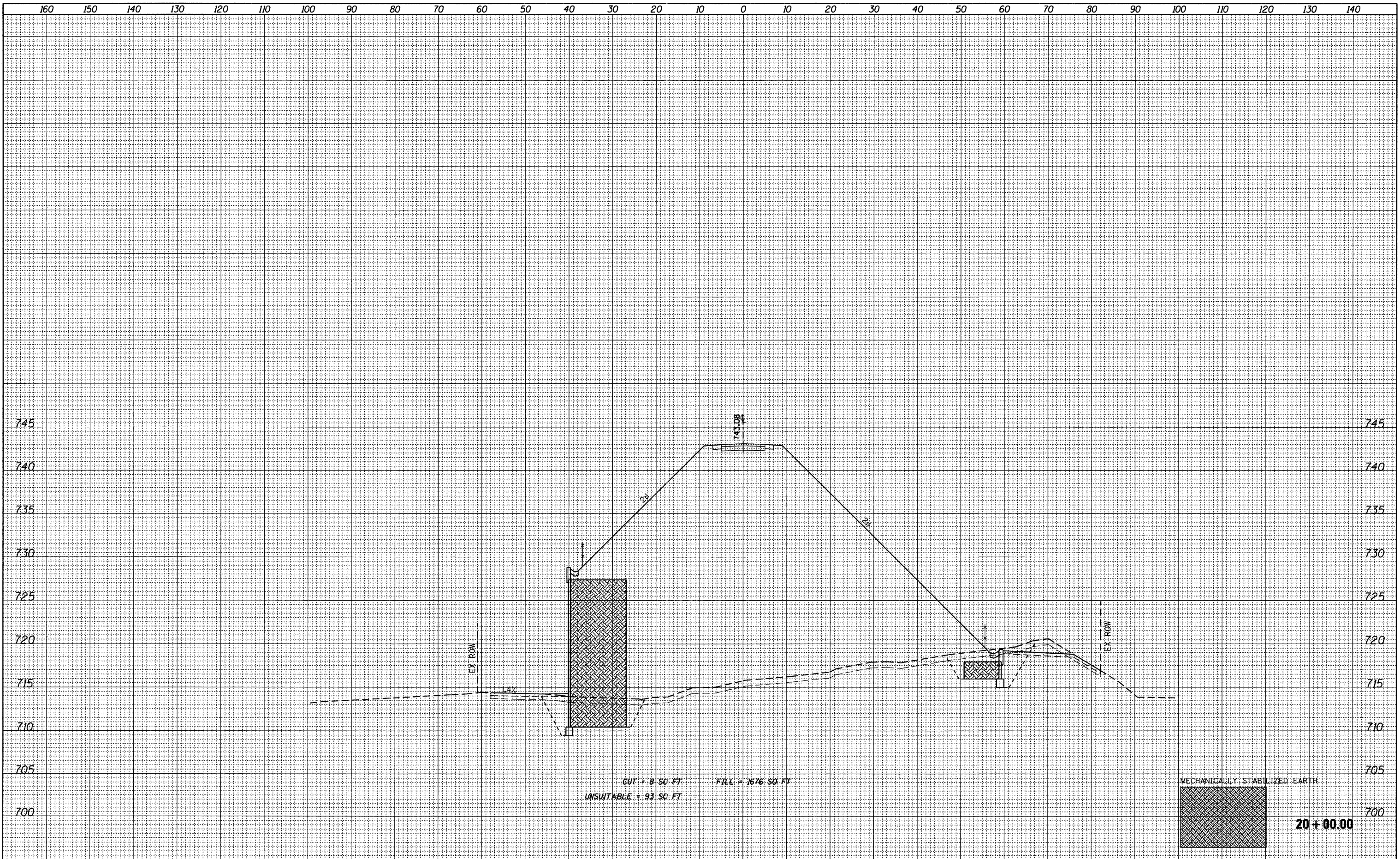
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b></p> <p align="center">1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 21 OF 51 SHEETS</p>	<b>GREAT WESTERN TRAIL</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -		<b>CROSS SECTIONS</b>			06-00151-00-BR	DUPAGE	201	171	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -		STA. 19+50.00 TO STA. 19+50.00			<b>CONTRACT NO. 63568</b>				
	PLOT DATE = 7/22/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	
	AREAS CHECKED	



CUT = 8 SQ. FT.      FILL = 1676 SQ. FT.  
 UNSUITABLE = 93 SQ. FT.

MECHANICALLY STABILIZED EARTH  
 20+00.00

FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase II\CADD

USER NAME = daly	DESIGNED - JPS	REVISED -
Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -
PLOT DATE = 7/22/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL**

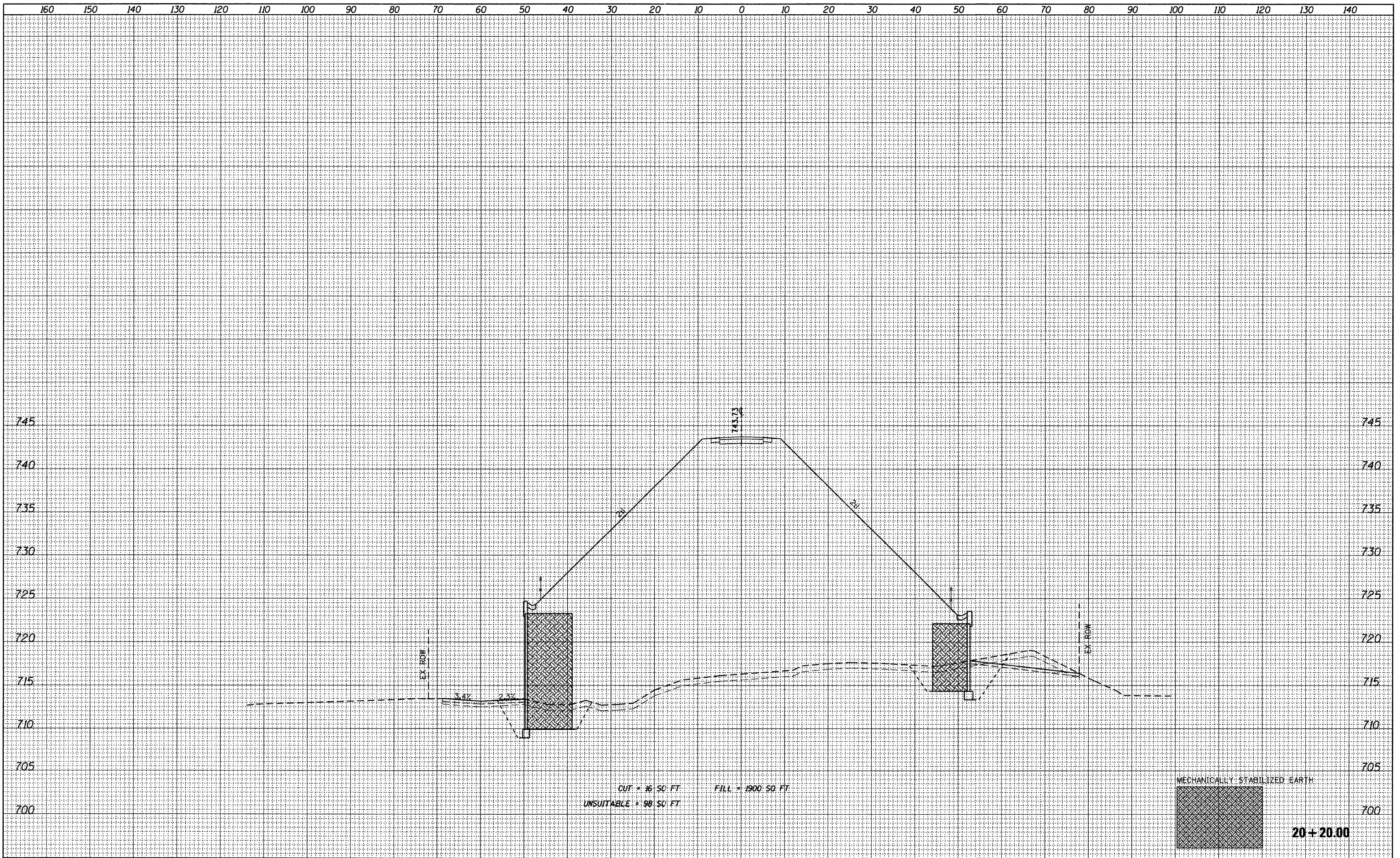
**GREAT WESTERN TRAIL  
 CROSS SECTIONS**  
 1"=10' HORIZ.  
 SCALE: 1"=5' VERT. SHEET NO. 22 OF 51 SHEETS  
 STA. 20+00.00 TO STA. 20+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	172
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

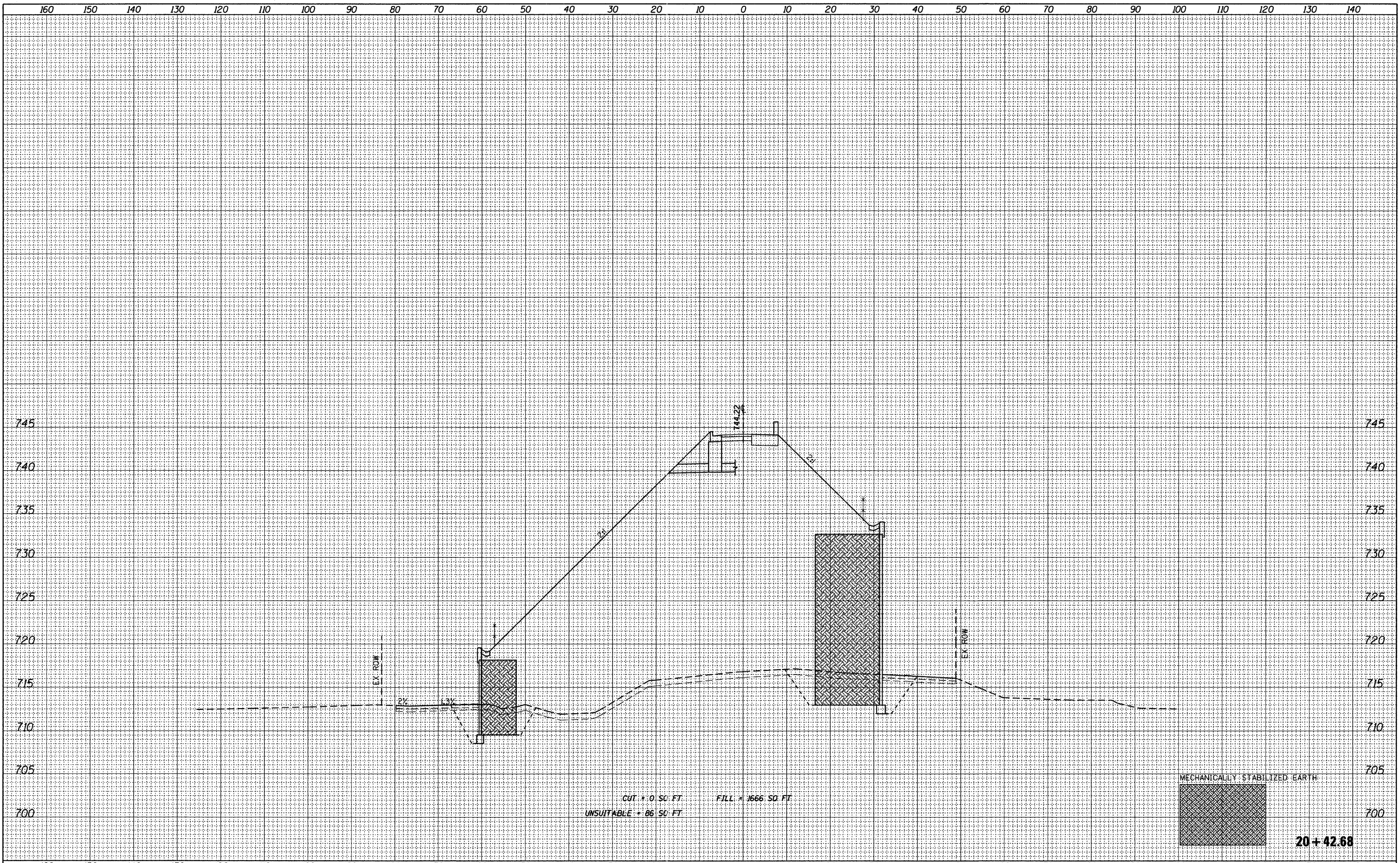
DATE	
BY	
SURVEYED	
PLOTTED	
NOTE DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = W:\756-004-Lombard - GWT Bridges Phase I\NCADD	USER NAME = dclj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Sheets\DI756004-sht-xsec.dgn	DRAWN - JPS	REVISED -			06-00151-00-BR	DUPAGE	201	173	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -			CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



CUT = 0 SQ. FT.      FILL = 1666 SQ. FT.  
 UNSUITABLE = 86 SQ. FT.

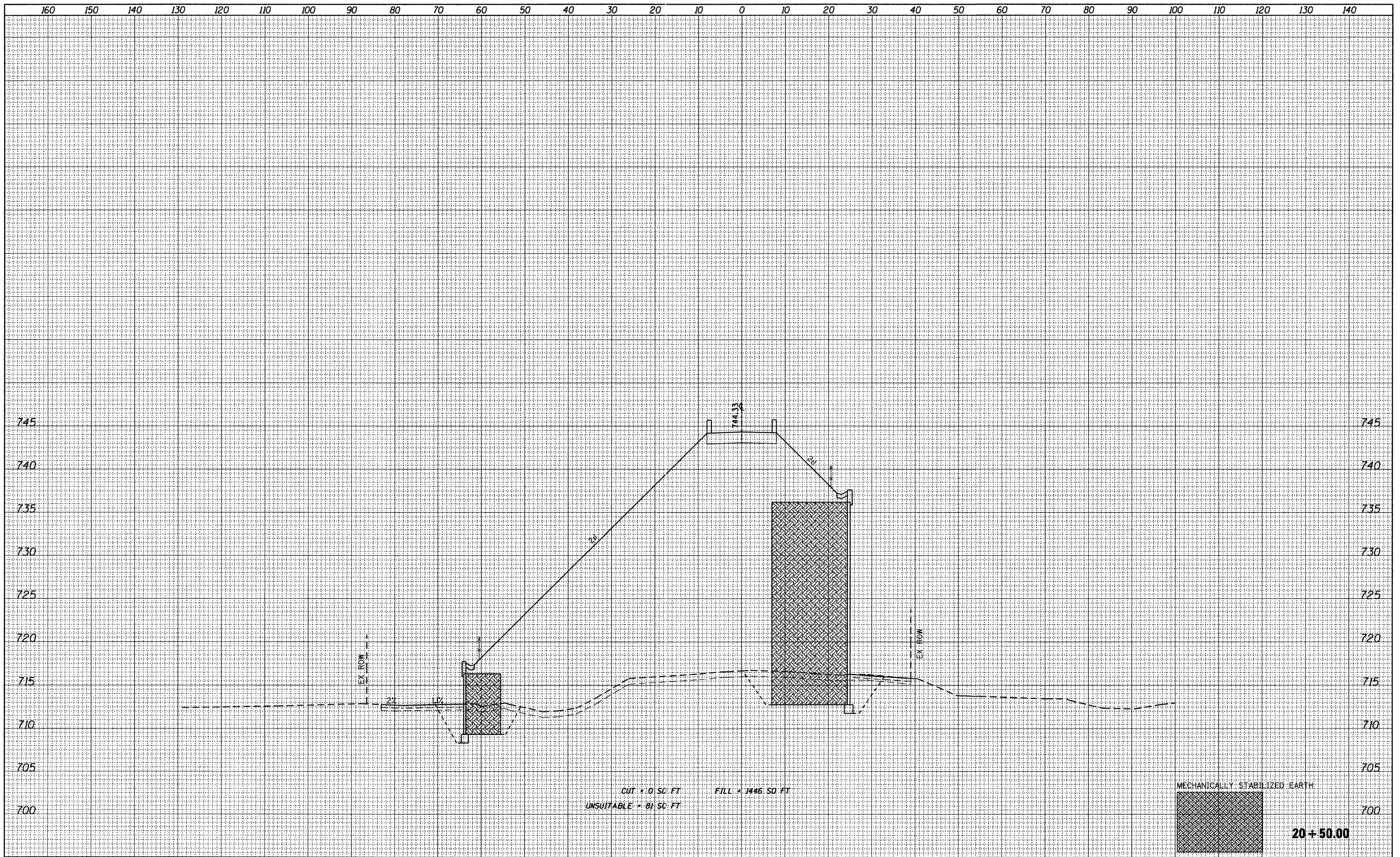
MECHANICALLY STABILIZED EARTH

20+42.68

FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	STATE OF ILLINOIS GREAT WESTERN TRAIL		GREAT WESTERN TRAIL CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004.Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-ah-xsec.dgn	DRAWN - JPS	REVISED -					06-00151-00-BR	DUPAGE	201	174	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -	SCALE: 1"=10' HORIZ. SCALE: 1"=5' VERT.   SHEET NO. 24 OF 51 SHEETS		STA. 20+42.68 TO STA. 20+42.68		CONTRACT NO. 63568		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 7/22/2011	DATE -	REVISED -									

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



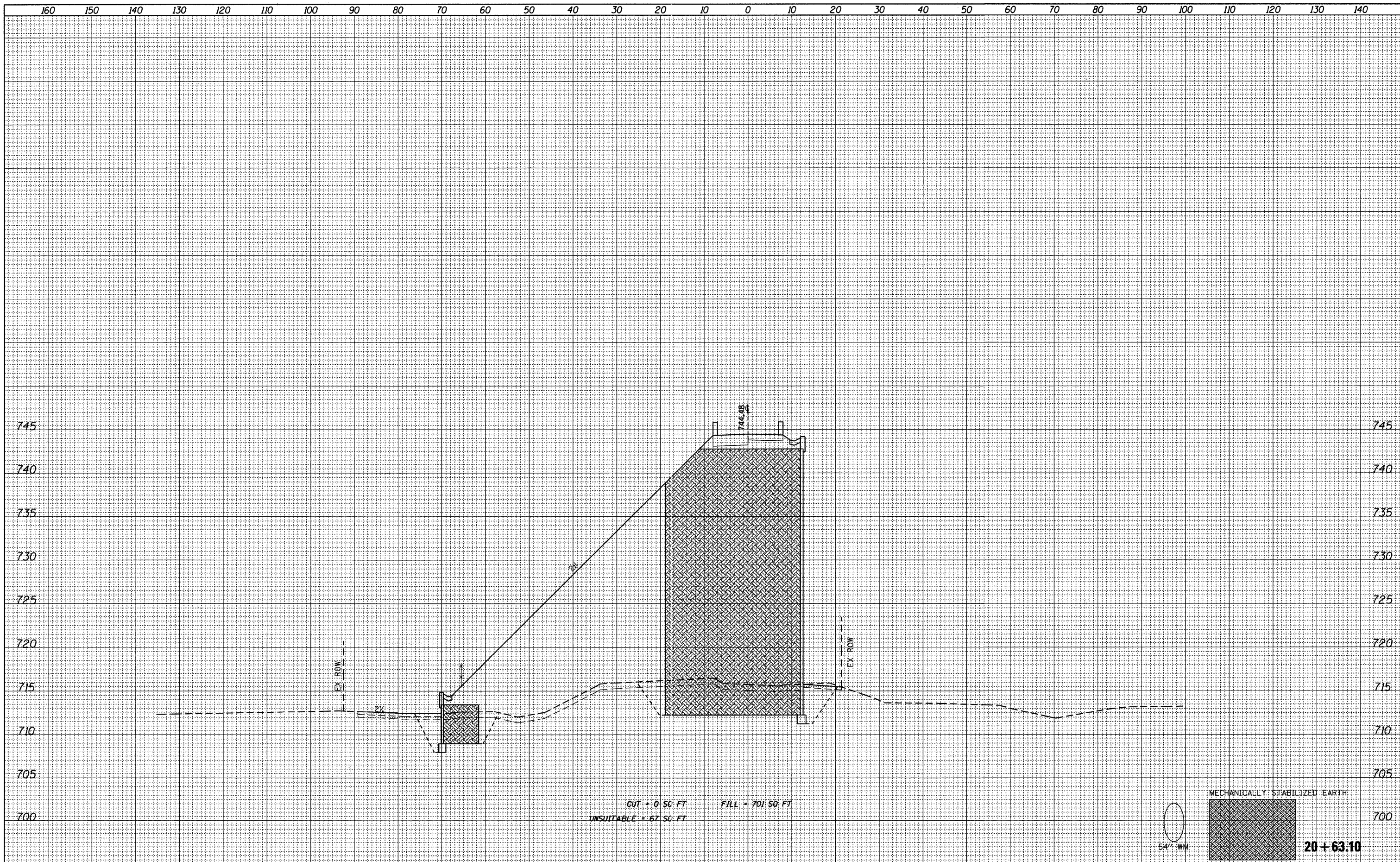
CUT = 0 SQ. FT. FILL = 1446 SQ. FT.  
 UNSUITABLE = 81 SQ. FT.

MECHANICALLY STABILIZED EARTH  
 20 + 50.00

FILE NAME =	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004-Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	SCALE: 1"=5' VERT. SHEET NO. 25 OF 51 SHEETS STA. 20+50.00 TO STA. 20+50.00				06-00151-00-BR	DUPAGE	201	175
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -							CONTRACT NO. 63568			
	PLOT DATE = 7/22/2011	DATE -	REVISED -							ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLotted	BY
NO.	AREAS CHECKED	

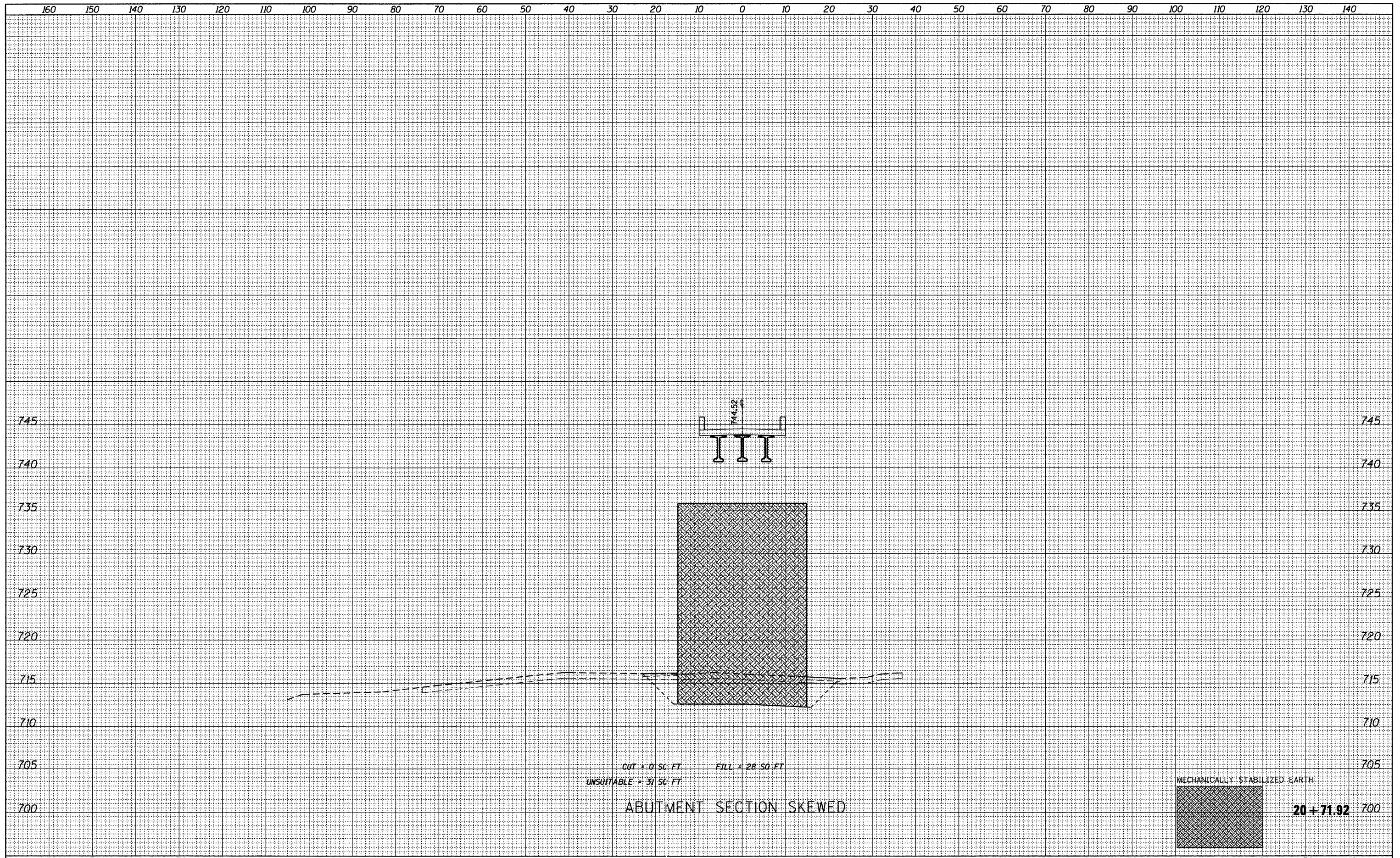
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLotted	BY
NO.	AREAS CHECKED	



FILE NAME = W:\756-004.Lombard - GWT Bridges Phase II\CADD	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b> 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 26 OF 51 SHEETS	STA. 20+63.10 TO STA. 20+63.10	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -				06-00151-00-BR	DUPAGE	201	176	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -				CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

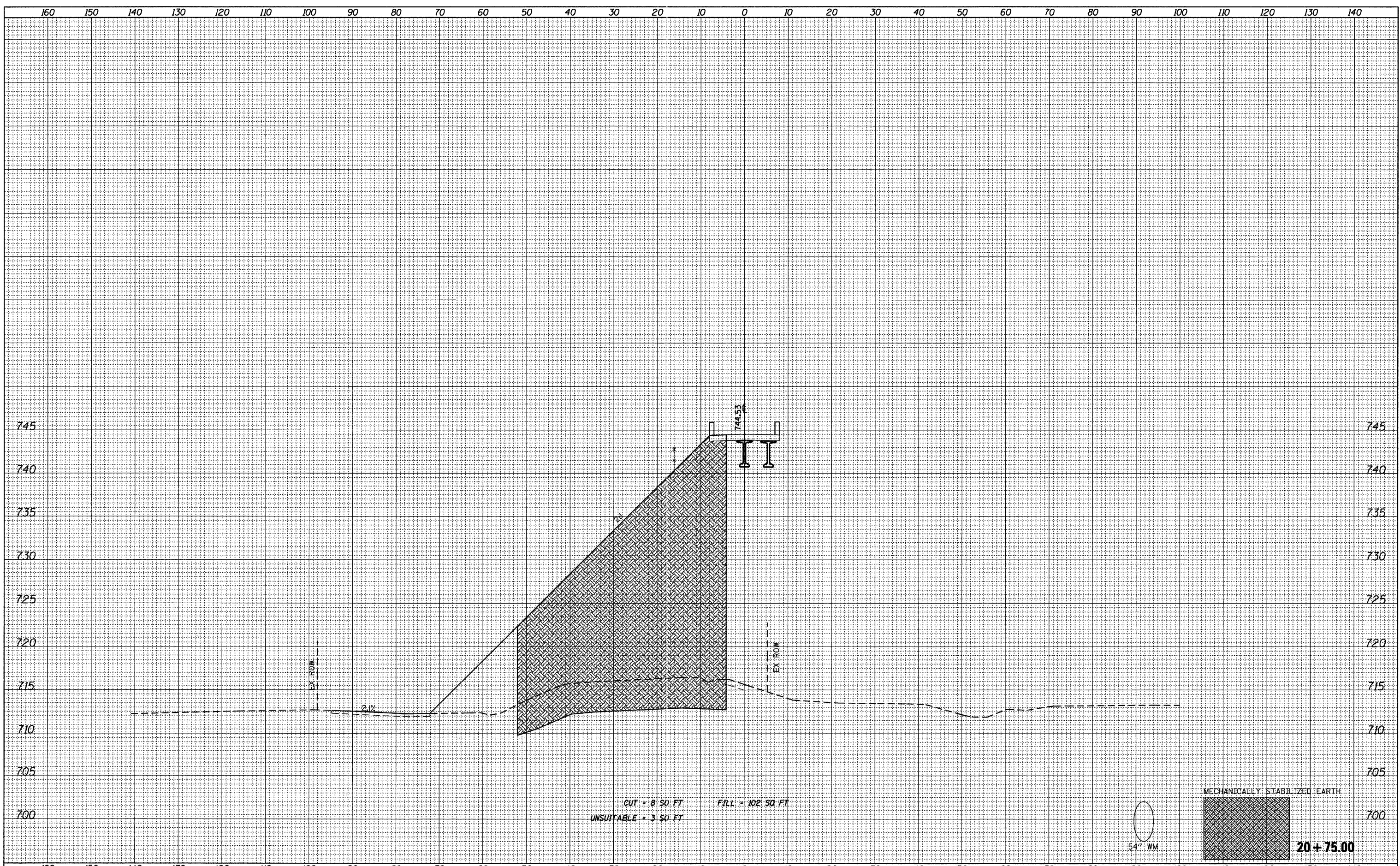
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = W:\756-004.Lombard - GWT Bridges Phase II\CADD	USER NAME = delj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Sheets\01756004-shr-xsec.dgn	DRAWN - JPS	REVISED -		1"	10'	HORIZ.	06-00151-00-BR	DUPAGE	201	177
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - BD	REVISED -		SCALE: 1"=5' VET.	SHEET NO. 27 OF 51 SHEETS	STA. 20+71.92	TO STA. 20+71.92	CONTRACT NO. 63568		
	PLOT DATE = 7/22/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

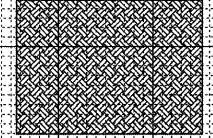
FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	

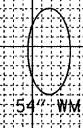


CUT = 8.50 FT  
 UNSUITABLE = 3.50 FT  
 FILL = 102.50 FT

MECHANICALLY STABILIZED EARTH



20+75.00

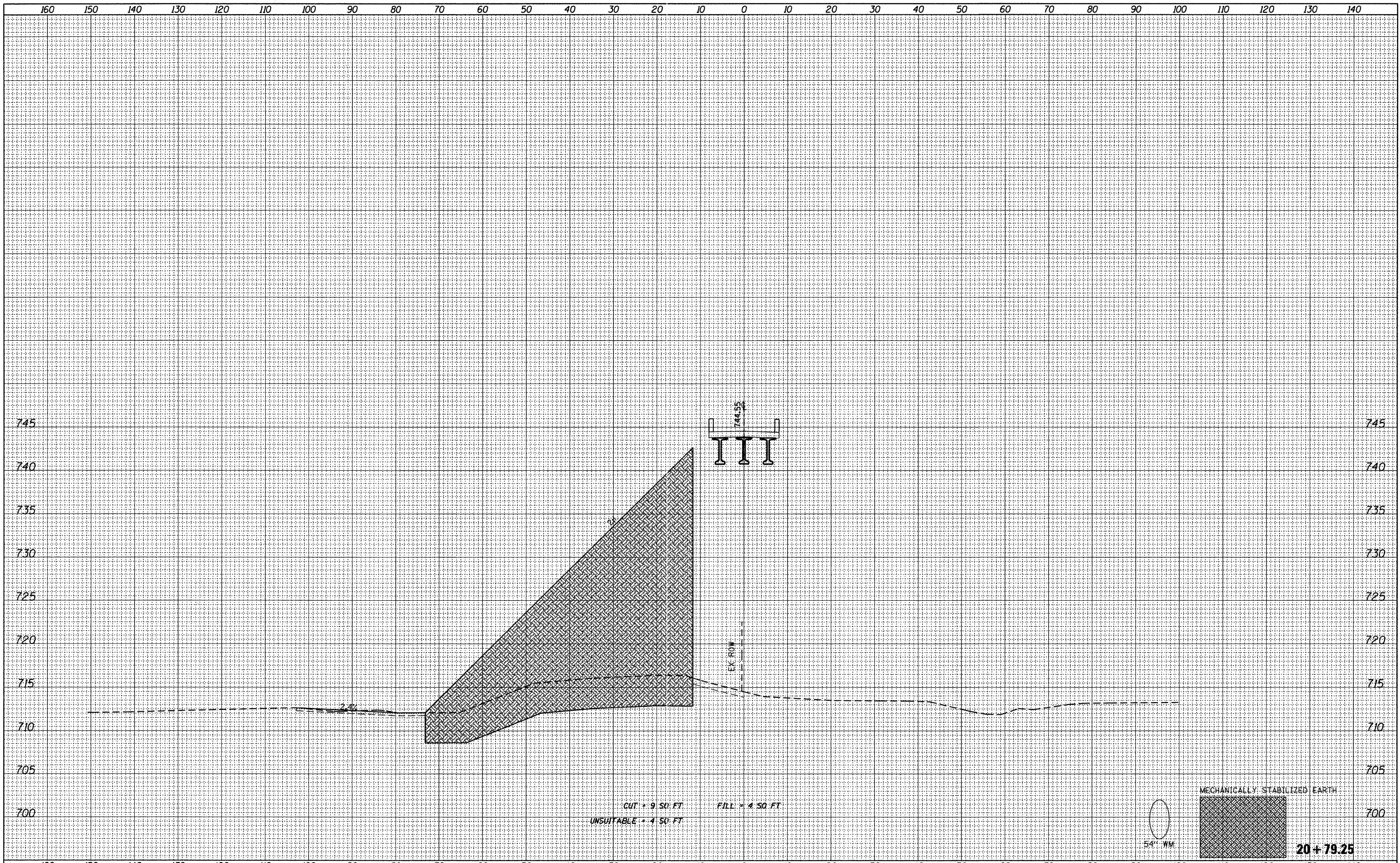


54" WM

FILE NAME = W:\756-004-Lombard - GWT Bridges Phase II\CADD	USER NAME = delj	DESIGNED - JPS	REVISED -	STATE OF ILLINOIS GREAT WESTERN TRAIL				GREAT WESTERN TRAIL CROSS SECTIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Sheeta\01756004-ahit-xsec.dgn	DRAWN - JPS	REVISED -	REVISED -									06-00151-00-BR	DUPAGE	201	178	
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -	REVISED -	SCALE: 1"=5' VERT. SHEET NO. 28 OF 51 SHEETS				STA. 20+75.00 TO STA. 20+75.00				CONTRACT NO. 63568				
PLOT DATE = 7/22/2011	DATE -	REVISED -	REVISED -					ILLINOIS FED. AID PROJECT								

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	DATE	
	AREAS	
	CHECKED	

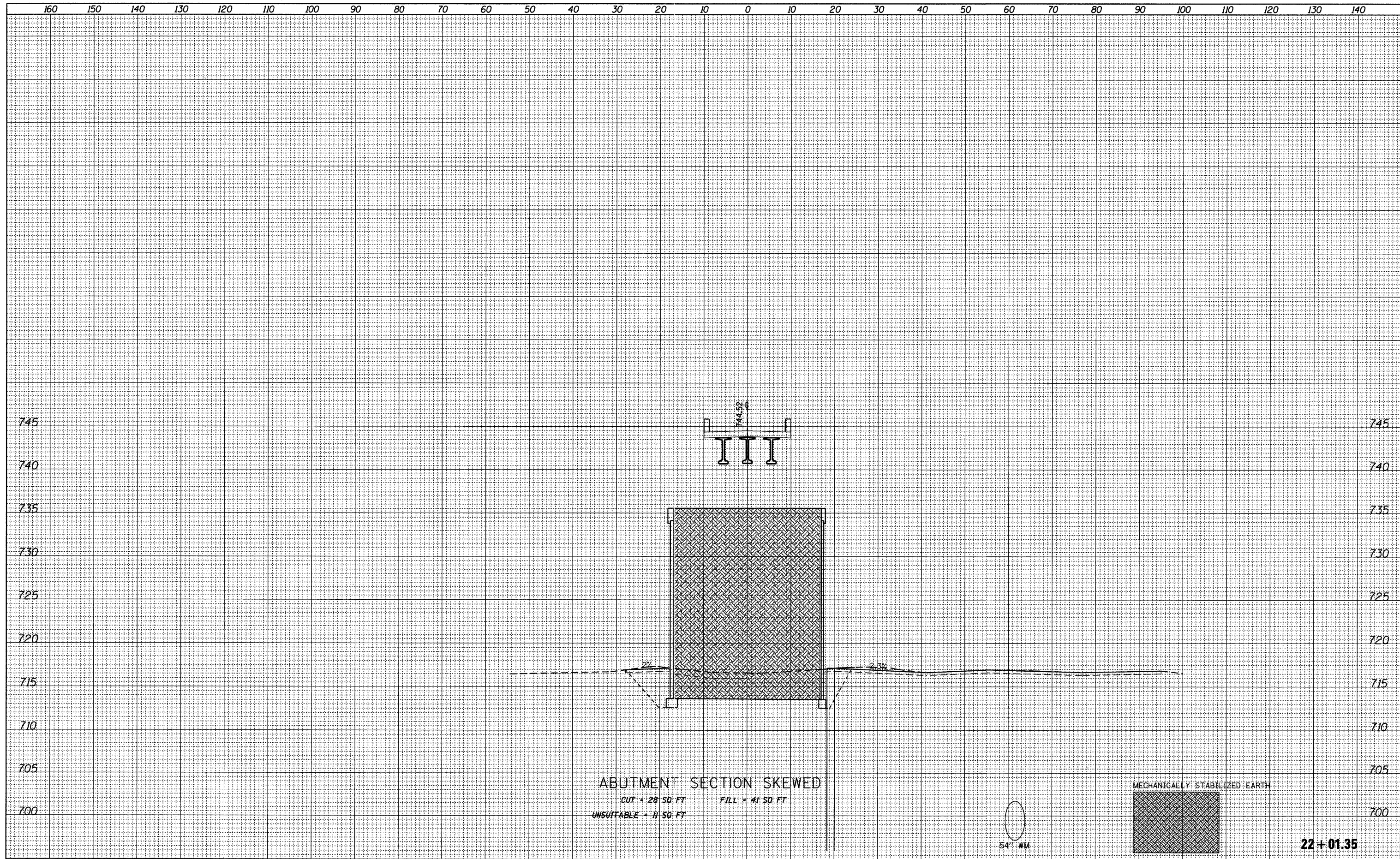
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	DATE	
	AREAS	
	CHECKED	



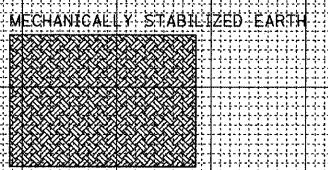
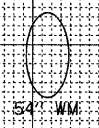
FILE NAME = W:\756-004-Lombard - GWT Bridges Phase II\CADD	USER NAME = dely Sheets\01756004-shr-xsec.dgn	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000' / IN.	DRAWN - JPS	REVISED -		SCALE: 1"=10' HORIZ.	1"=5' VERT.	SHEET NO. 29 OF 51 SHEETS	06-00151-00-BR	DUPAGE	201	179
	PLOT DATE = 7/22/2011	CHECKED - BD	REVISED -		STA. 20+79.25	TO STA. 20+79.25		CONTRACT NO. 63568	ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



ABUTMENT SECTION SKEWED  
 CUT = 28 SO. FT.      FILL = 41 SO. FT.  
 UNSUITABLE = 11 SO. FT.



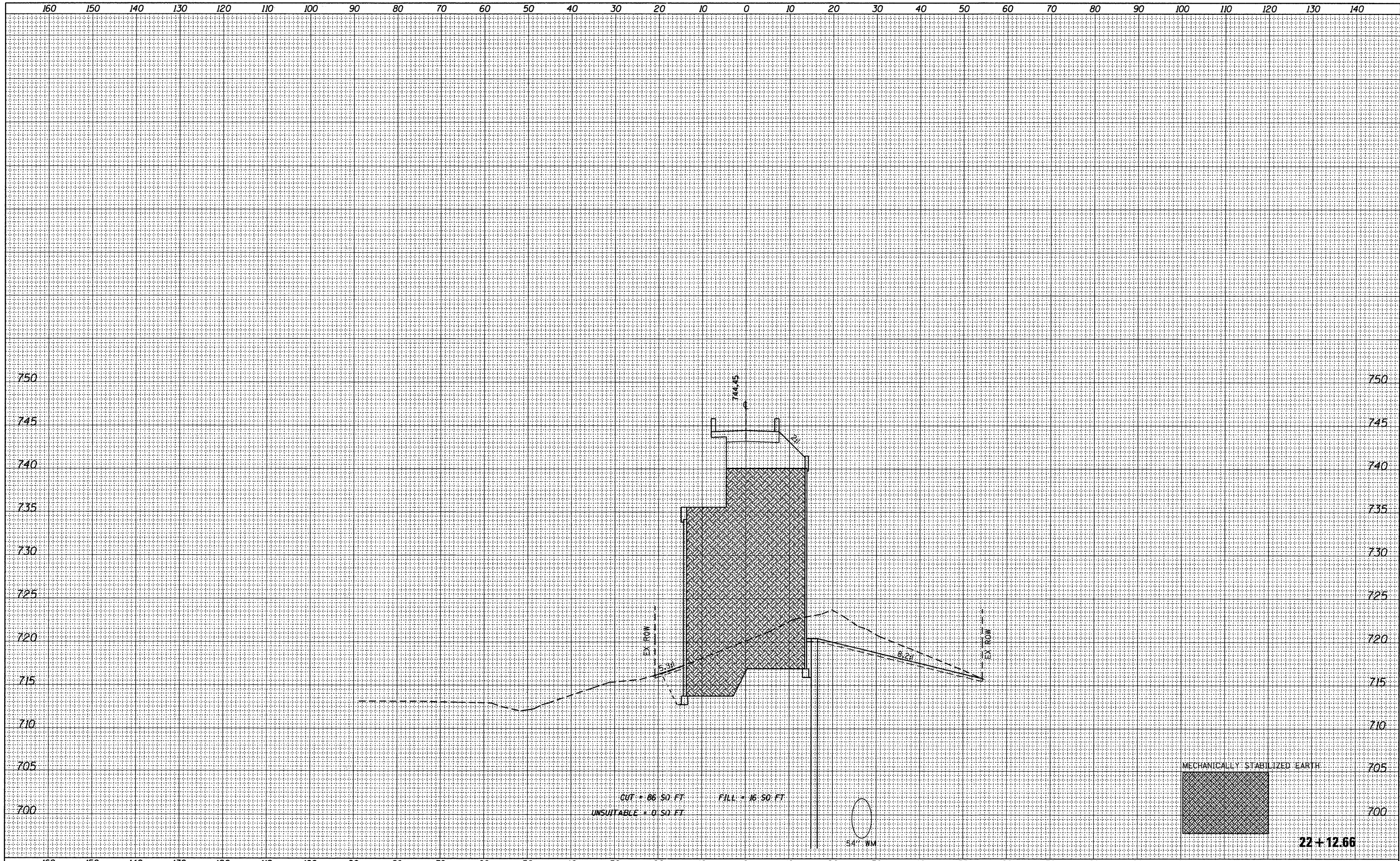
22+01.35

FILE NAME = W:\756-004.Lombard - GWT Bridges Phase II\CADD	USER NAME = cesser10	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	Sheets\DI756004-shr-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	SCALE: 1"=5' VERT.	SHEET NO. 30 OF 51 SHEETS	06-00151-00-BR	DuPAGE	201	180	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -		STA. 22+01.35	TO STA. 22+01.35						
	PLOT DATE = 7/26/2011	DATE -	REVISED -		CONTRACT NO. 63568		ILLINOIS FED. AID PROJECT					



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = W:\756-004-Lombard - GWT Bridges Phase II\CADD

USER NAME = daly	DESIGNED - JPS	REVISED -
Sheets\DI756004-ahs-xsec.dgn	DRAWN - JPS	REVISED -
PLOT SCALE = 1/8"=1'-0" IN.	CHECKED - BD	REVISED -
PLOT DATE = 7/22/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
CROSS SECTIONS**

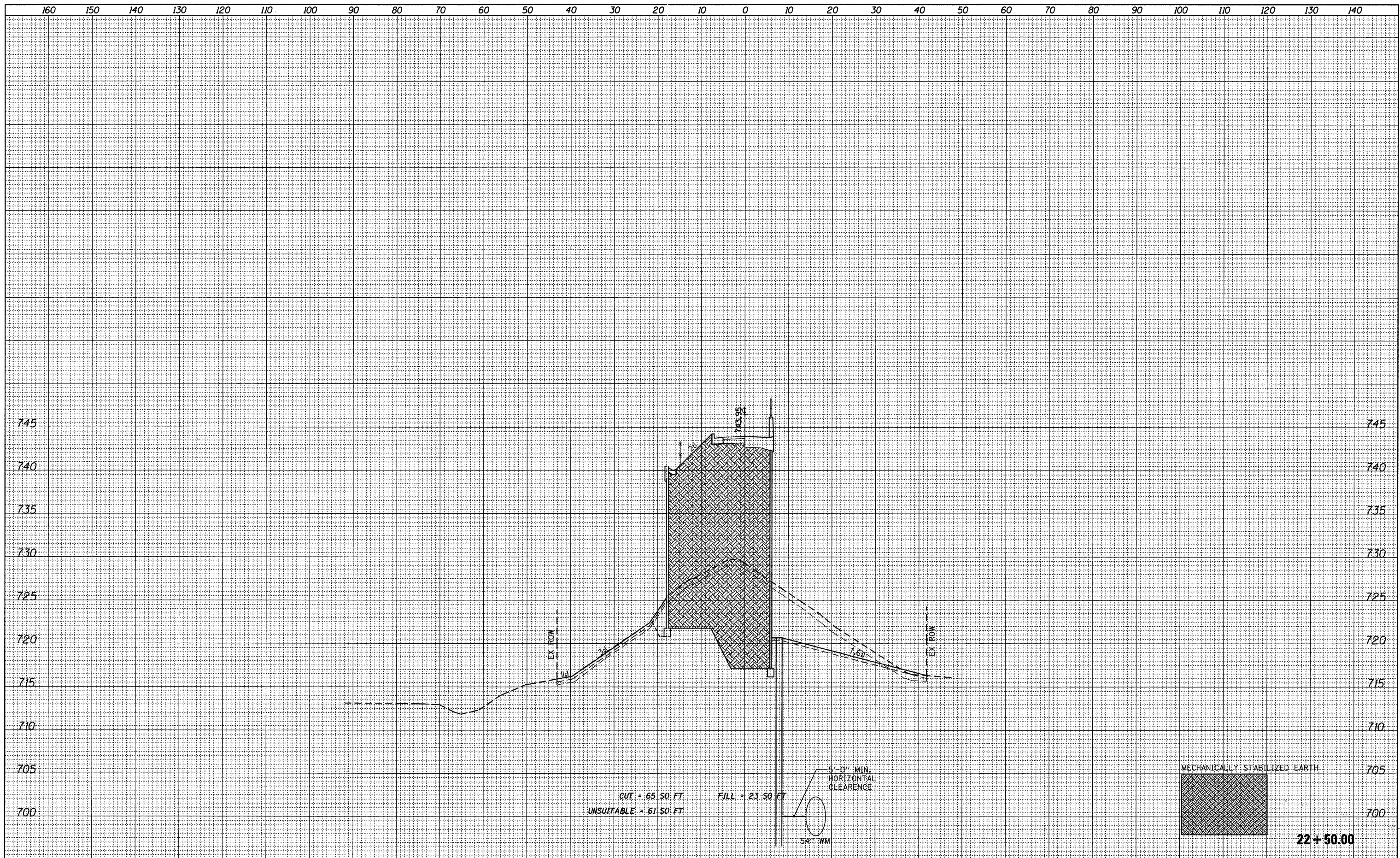
1"=10' HORIZ.  
SCALE: 1"=5' VERT. SHEET NO. 31 OF 51 SHEETS STA. 22+12.66 TO STA. 22+12.66

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	181
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				

**22+12.66**

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	AREAS CHECKED	

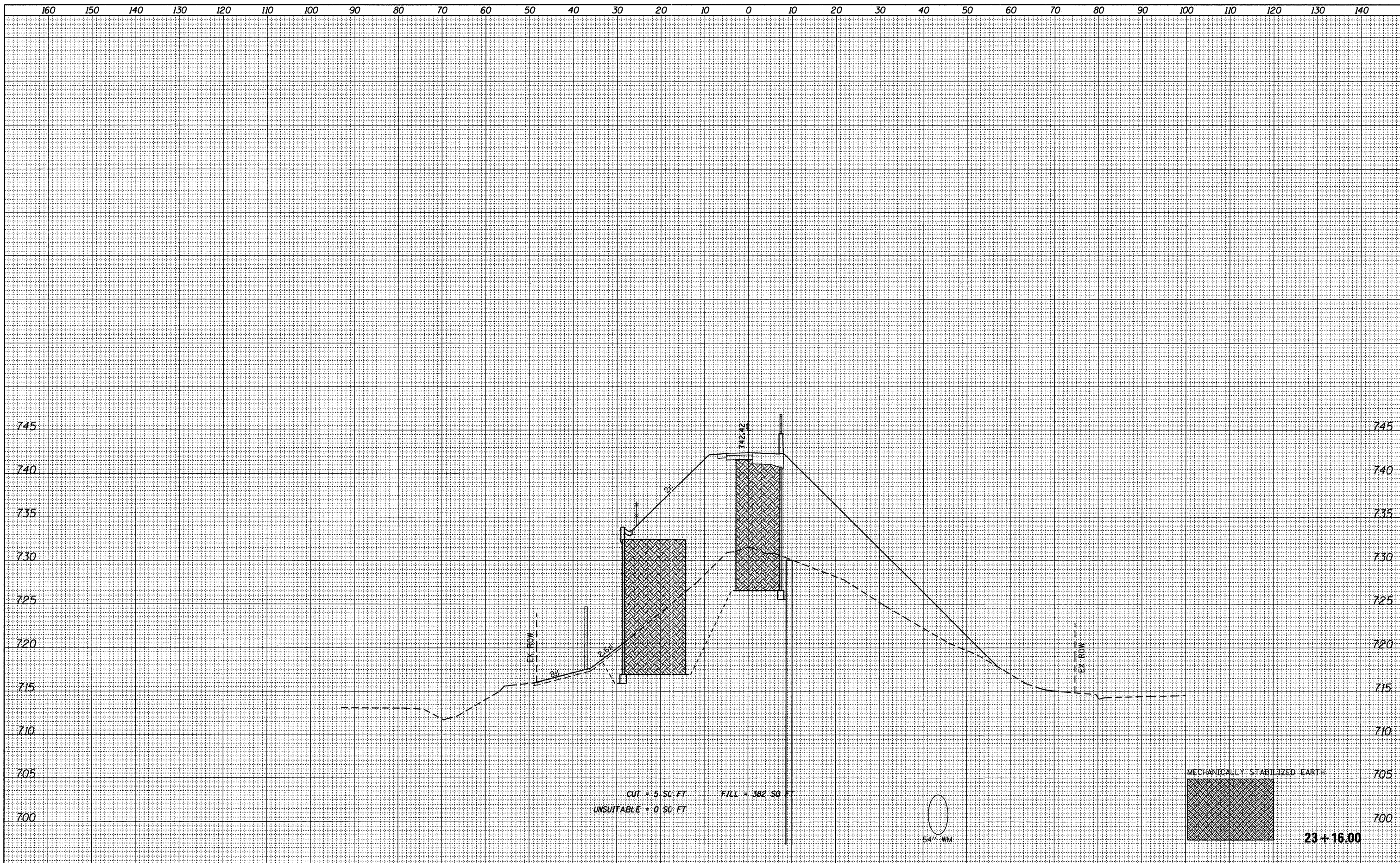


FILE NAME = W:\756-004.Lombard - GMT Bridges Phase II\CADD	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Sheets\01756004-sh1-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	SHEET NO. 32 OF 51 SHEETS	06-00151-00-BR	DUPAGE	201	182	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -		SCALE: 1"=5' VERT.	STA. 22+50.00 TO STA. 22+50.00	CONTRACT NO. 63568		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 7/22/2011	DATE -	REVISED -								



DATE	
BY	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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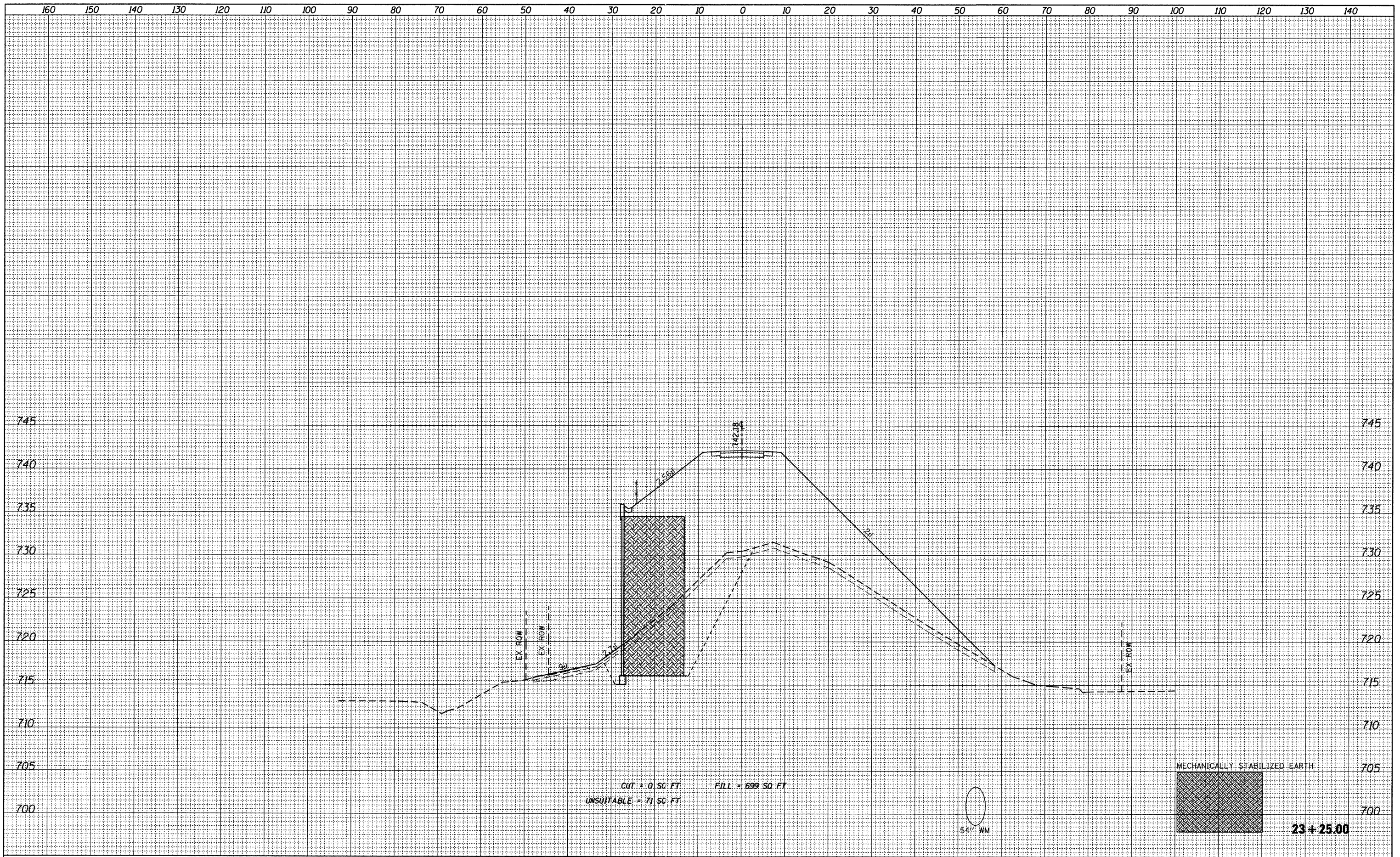
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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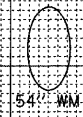
FILE NAME =	USER NAME = delj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>				<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase I\NCADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -									06-00151-00-BR	DUPAGE	201	184	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -									CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				
				SCALE: 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 34 OF 51 SHEETS				STA. 23+16.00 TO STA. 23+16.00								

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMP. DATE	
	AREAS CHECKED	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMP. DATE	
	AREAS CHECKED	
	AREAS CHECKED	



CUT = 0 SQ. FT.      FILL = 699 SQ. FT.  
 UNSUITABLE = 71 SQ. FT.



MECHANICALLY STABILIZED EARTH

23+25.00

FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase II\CADD

USER NAME = dolj  
 Sheets\01756004-aht-xseo.dgn  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = 7/22/2011

DESIGNED - JPS  
 DRAWN - JPS  
 CHECKED - BD  
 DATE -

REVISED -  
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 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL**

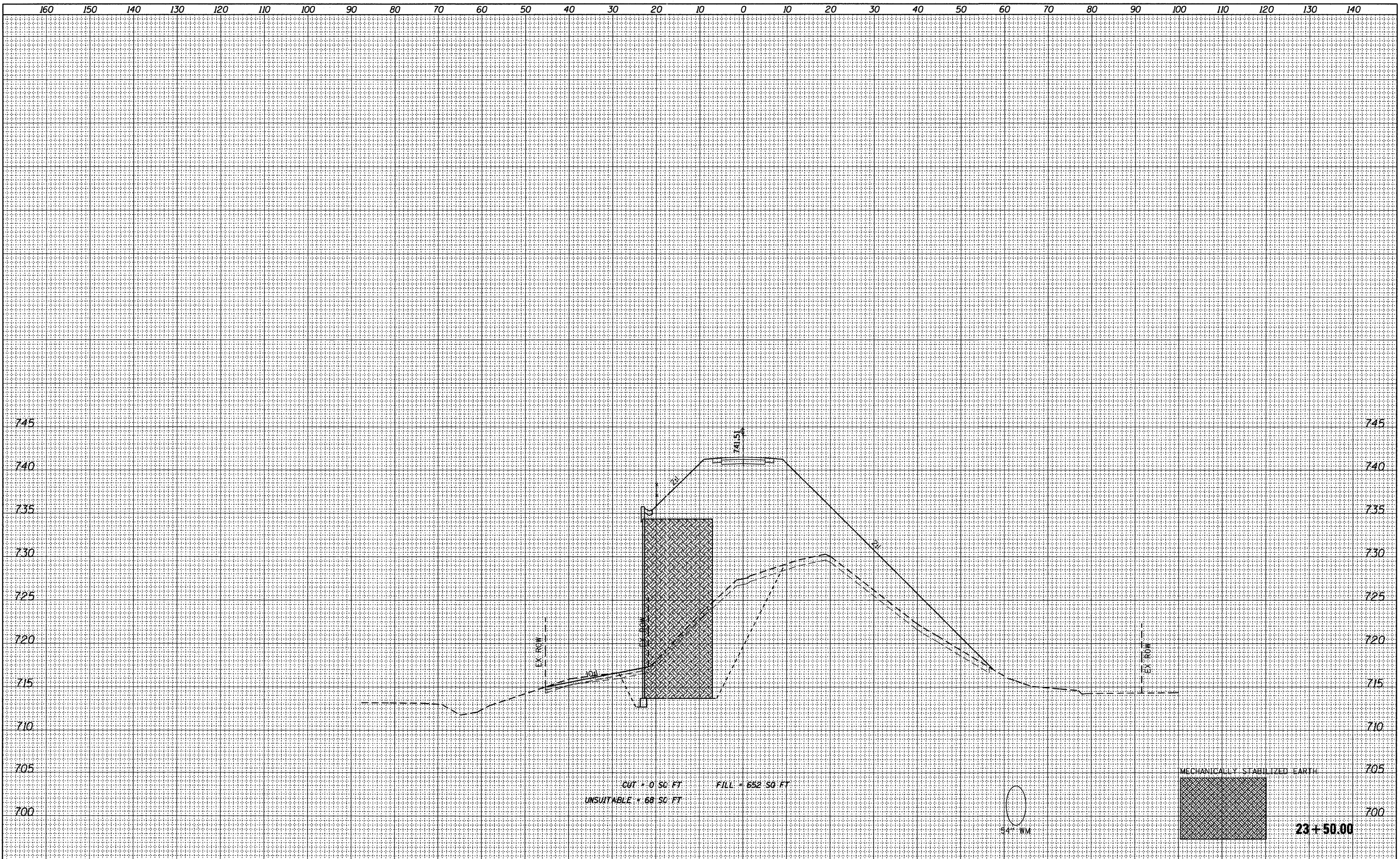
**GREAT WESTERN TRAIL  
 CROSS SECTIONS**

1"=10' HORIZ.  
 SCALE: 1"=5' VERT. SHEET NO. 35 OF 51 SHEETS      STA. 23+25.00 TO STA. 23+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	185
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	FORM ID	
NO.	AREAS CHECKED	

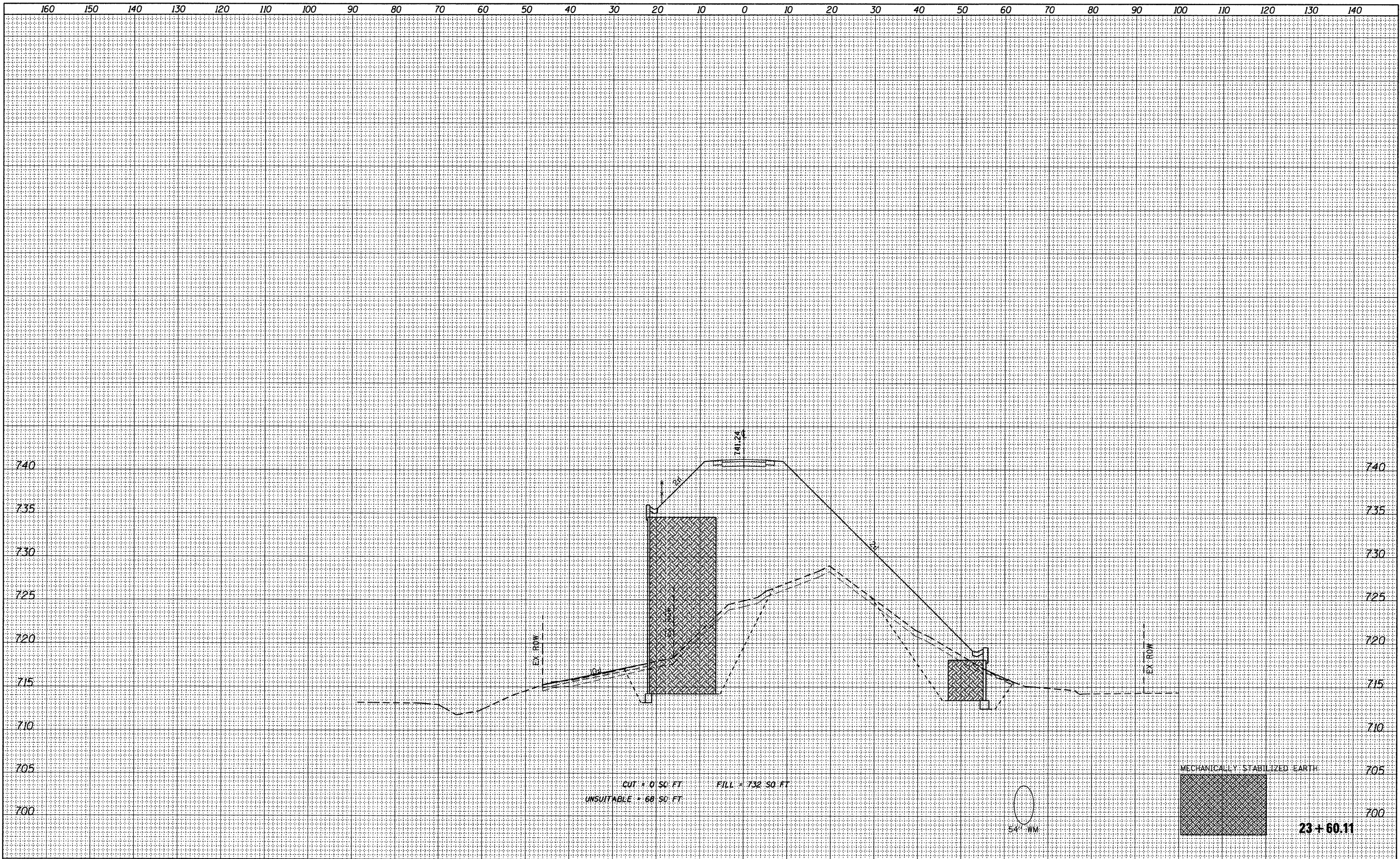
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	FORM ID	
NO.	AREAS CHECKED	



FILE NAME = W:\756-004_Lombard - GWT Bridges Phase II\CADD	USER NAME = daly	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -			06-00151-00-BR	DUPAGE	201	186	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -			CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=10' HORIZ. SCALE: 1"=5' VERT.	SHEET NO. 36 OF 51 SHEETS		STA. 23+50.00 TO STA. 23+50.00		

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	DATE	
	AREAS CHECKED	

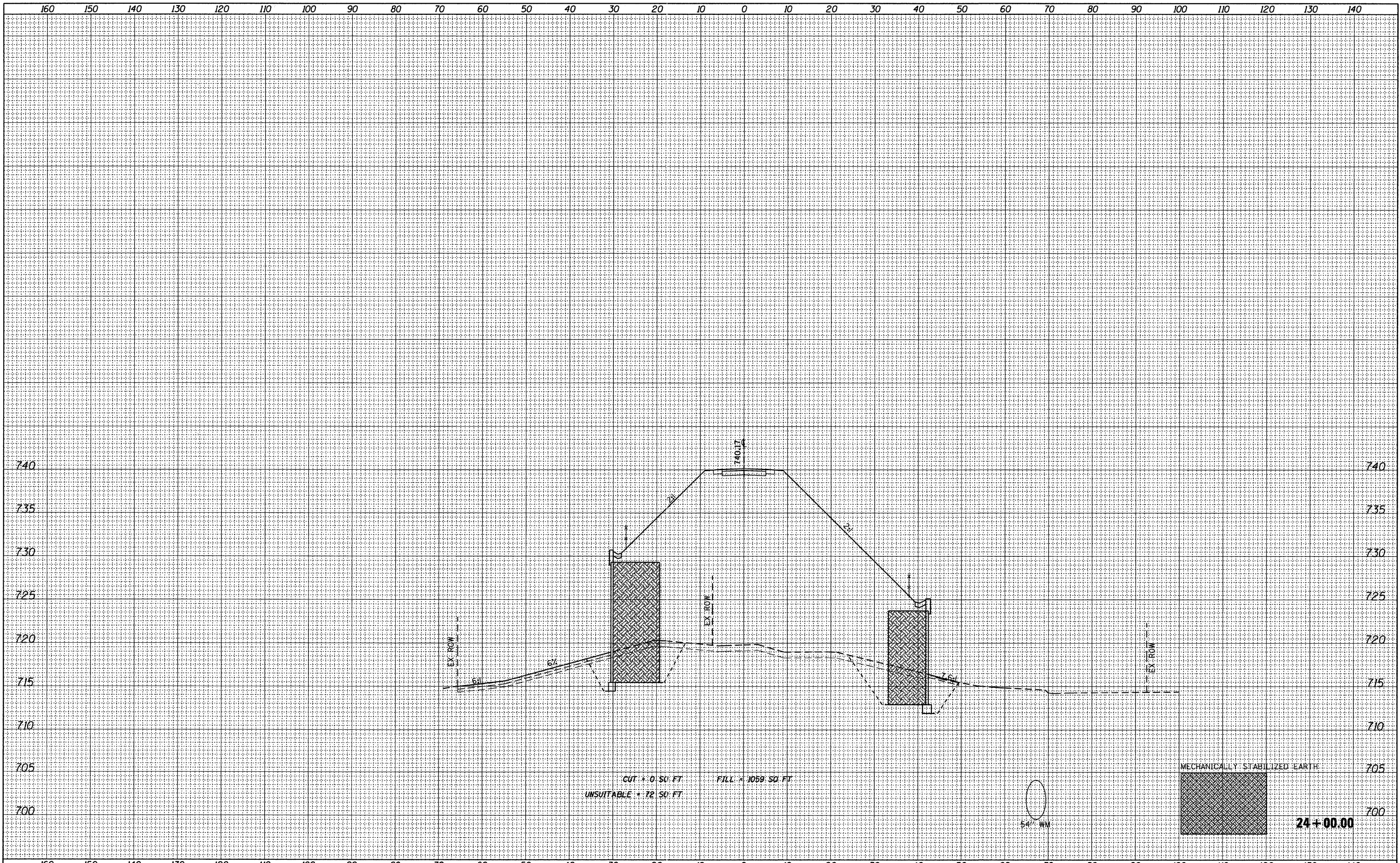
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	DATE	
	AREAS CHECKED	



FILE NAME =	USER NAME = dely	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -			06-00151-00-BR	DUPAGE	201	187	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -			CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	CHECKED
	AREAS	DATE
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	CHECKED
	AREAS	DATE
	CHECKED	



FILE NAME = W:\756-004.Lombard - GW Trail Bridges Phase II\CADD

USER NAME = daly	DESIGNED - JPS	REVISED -
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PLOT DATE = 7/22/2011	DATE -	REVISED -

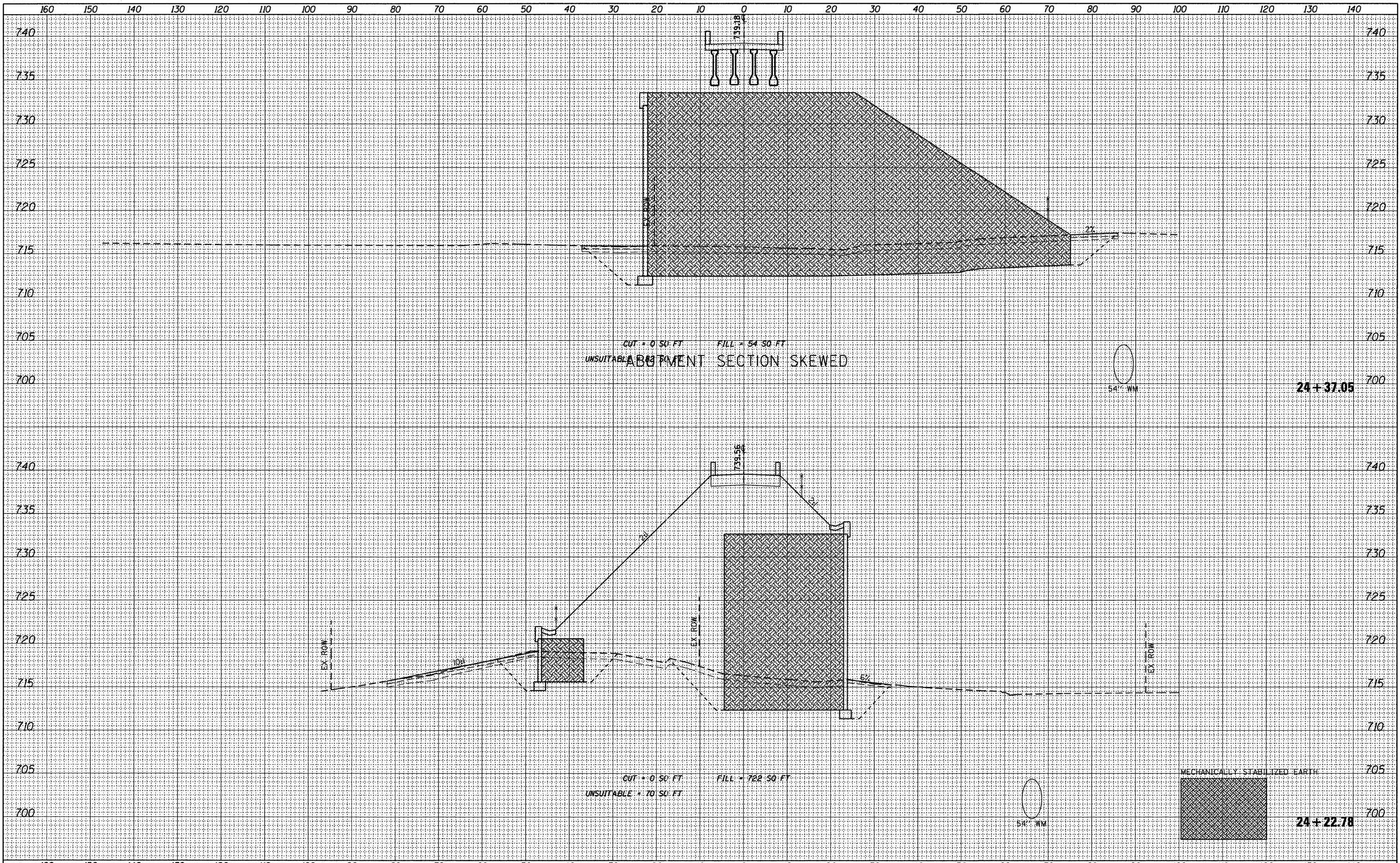
**STATE OF ILLINOIS  
GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
CROSS SECTIONS**

1"=10' HORIZ.  
SCALE: 1"=5' VERT. SHEET NO. 38 OF 51 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	188
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				





DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase II\CADD

USER NAME = daij	DESIGNED - JPS	REVISED -
Sheets\01756004-shr-xsec.dgn	DRAWN - JPS	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -
PLOT DATE = 7/22/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
CROSS SECTIONS**

1"=10' HORIZ.  
SCALE: 1"=5' VERT. SHEET NO. 39 OF 51 SHEETS

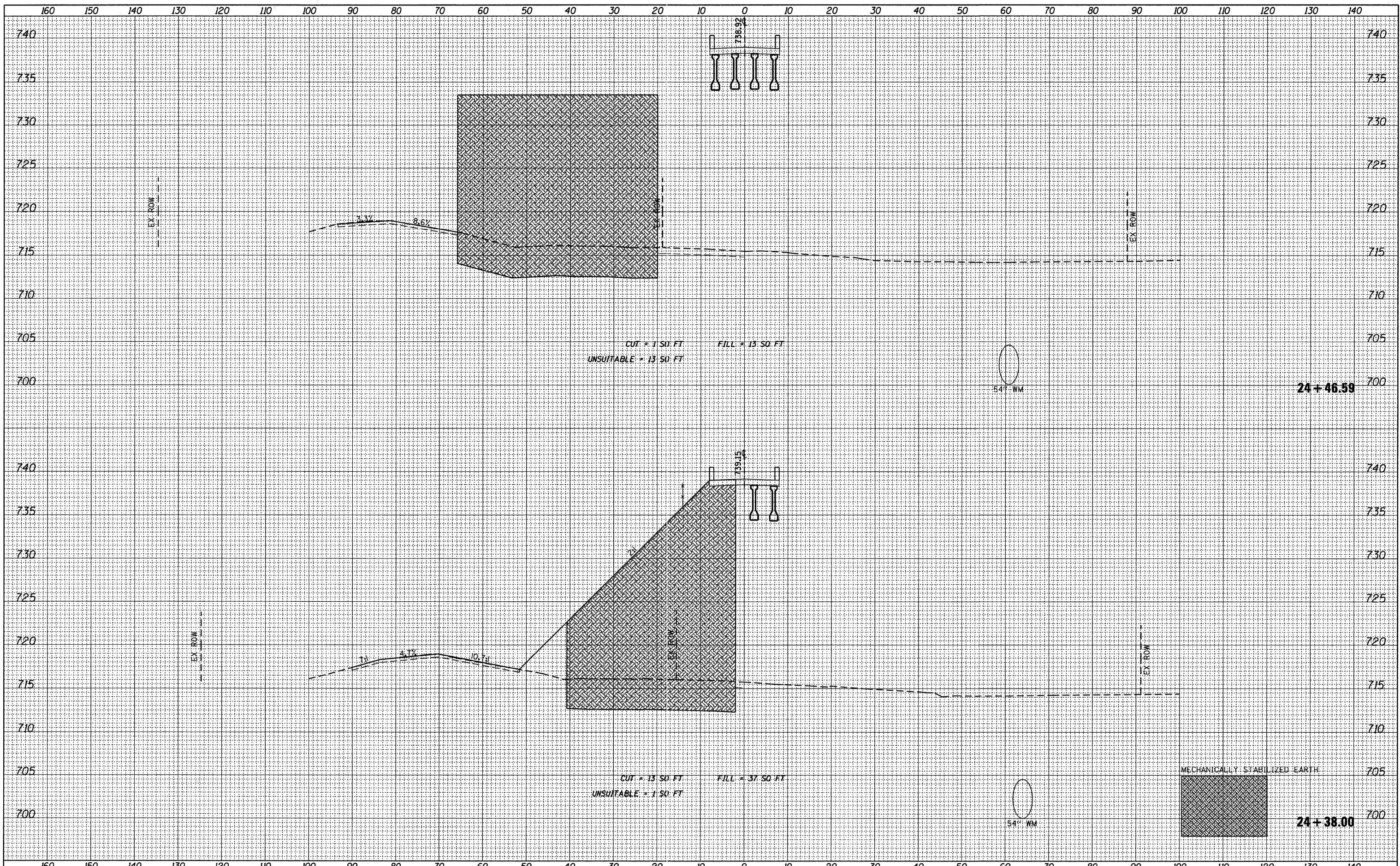
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	189
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				

24 + 37.05

24 + 22.78

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

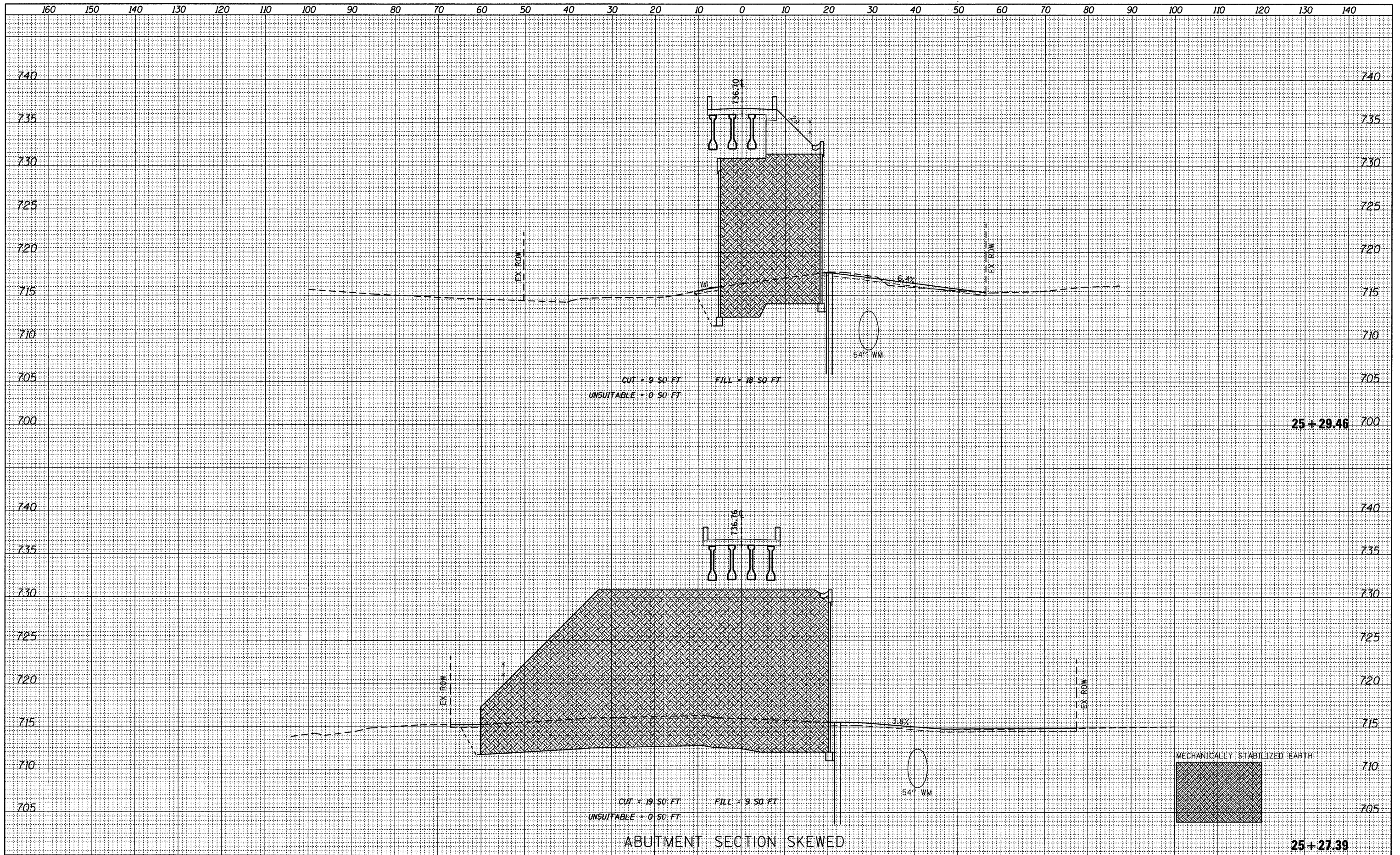
DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = delj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004-Lombard - GWT Bridges Phase I\CA00	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	SCALE: 1"=5' VERT.	SHEET NO. 40 OF 51 SHEETS	06-00151-00-BR	DUPAGE	201	190
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -		STA. 24+38.00 TO STA. 24+46.59	CONTRACT NO. 63568		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 7/22/2011	DATE -	REVISED -								

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase II\CADD

USER NAME = dalj	DESIGNED - JPS	REVISED -
Sheets\01756004-shr-xsec.dgn	DRAWN - JPS	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -
PLOT DATE = 7/22/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
CROSS SECTIONS**

1"=10' HORIZ.  
SCALE: 1"=5' VERT. SHEET NO. 41 OF 51 SHEETS

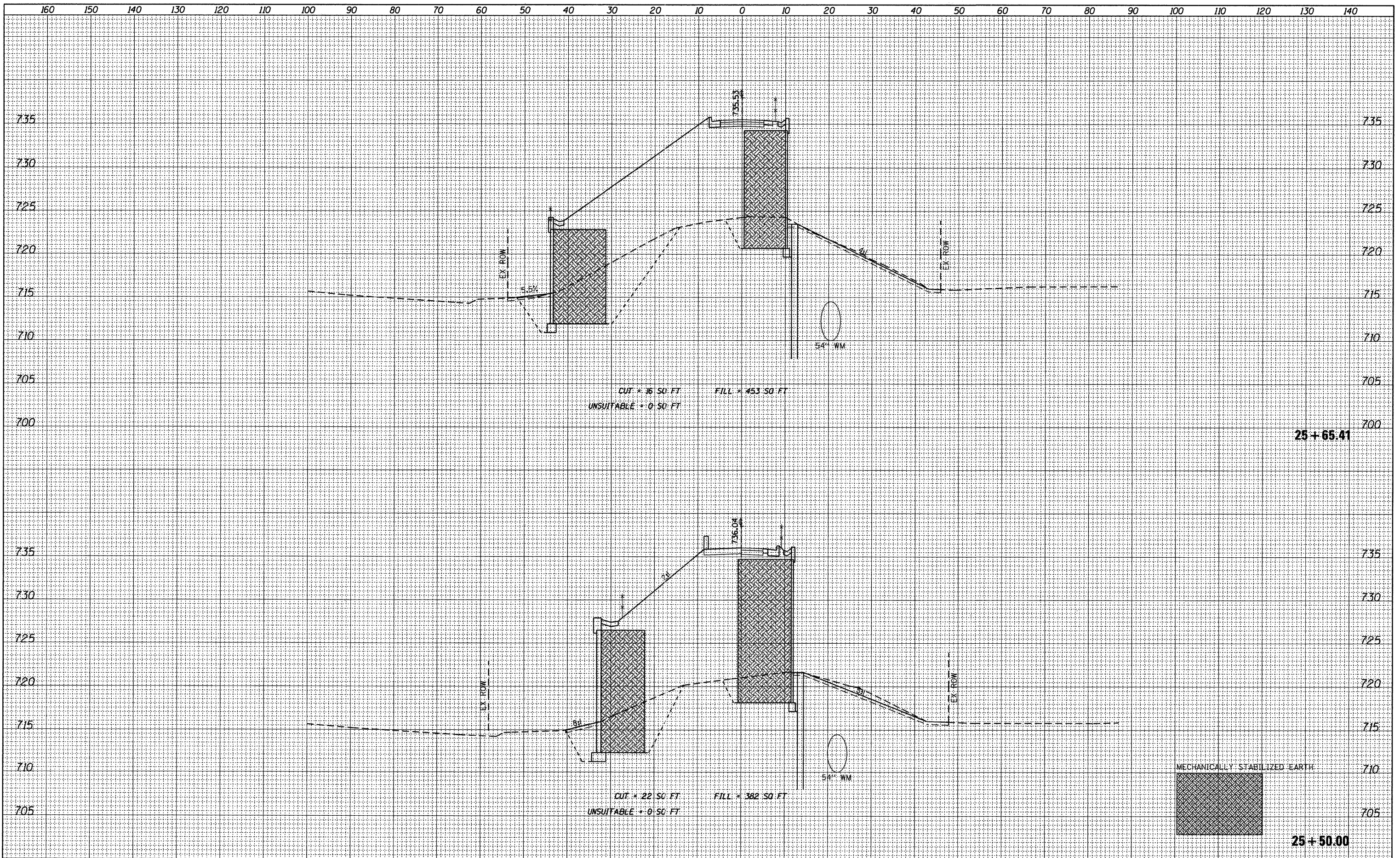
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	191
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				

25 + 29.46

25 + 27.39

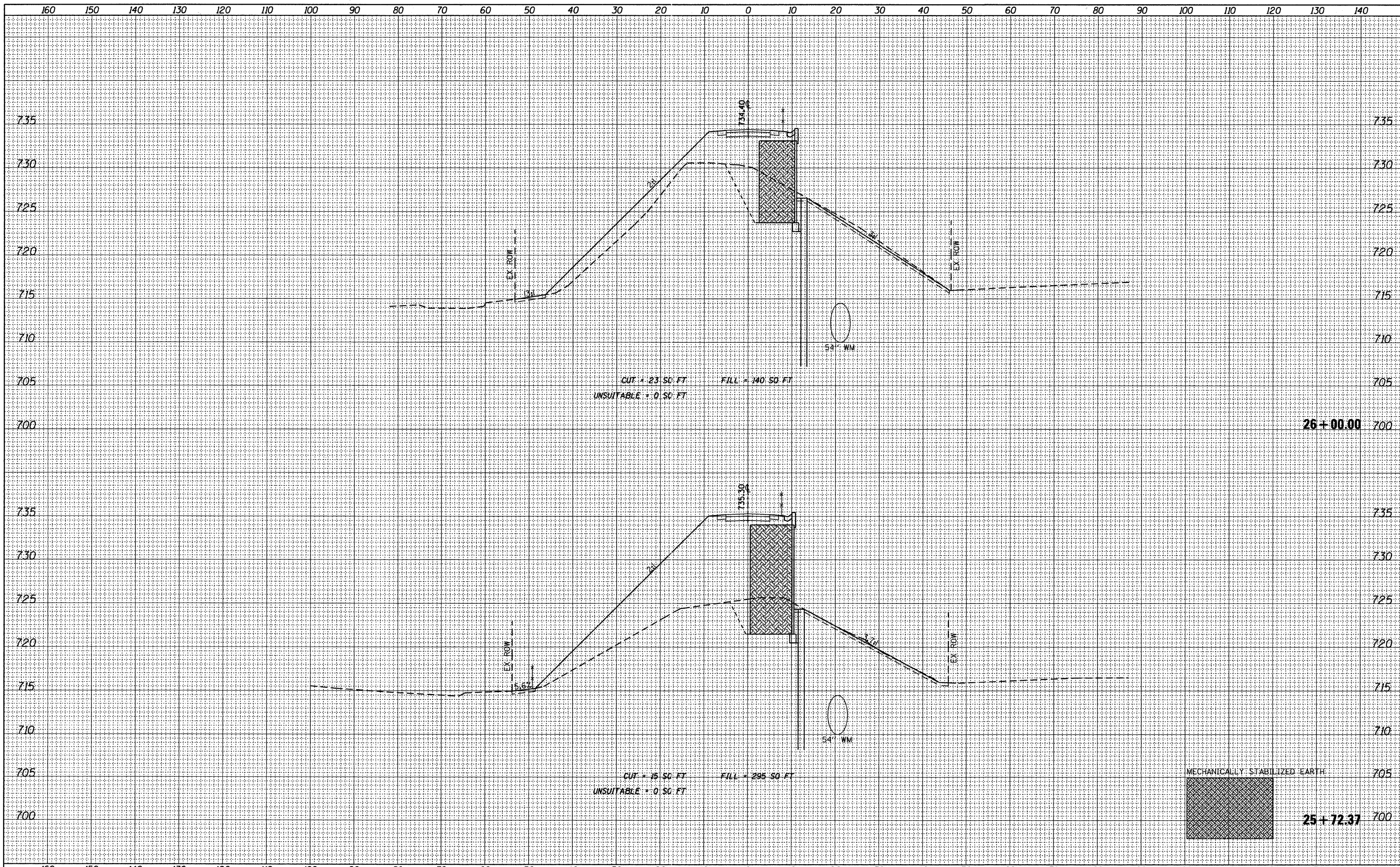
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	DATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	DATE
	AREAS CHECKED



DATE	
BY	
FINAL SURVEY	
PLANNING	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLANNING	
NOTE BOOK	
AREAS CHECKED	
NO.	

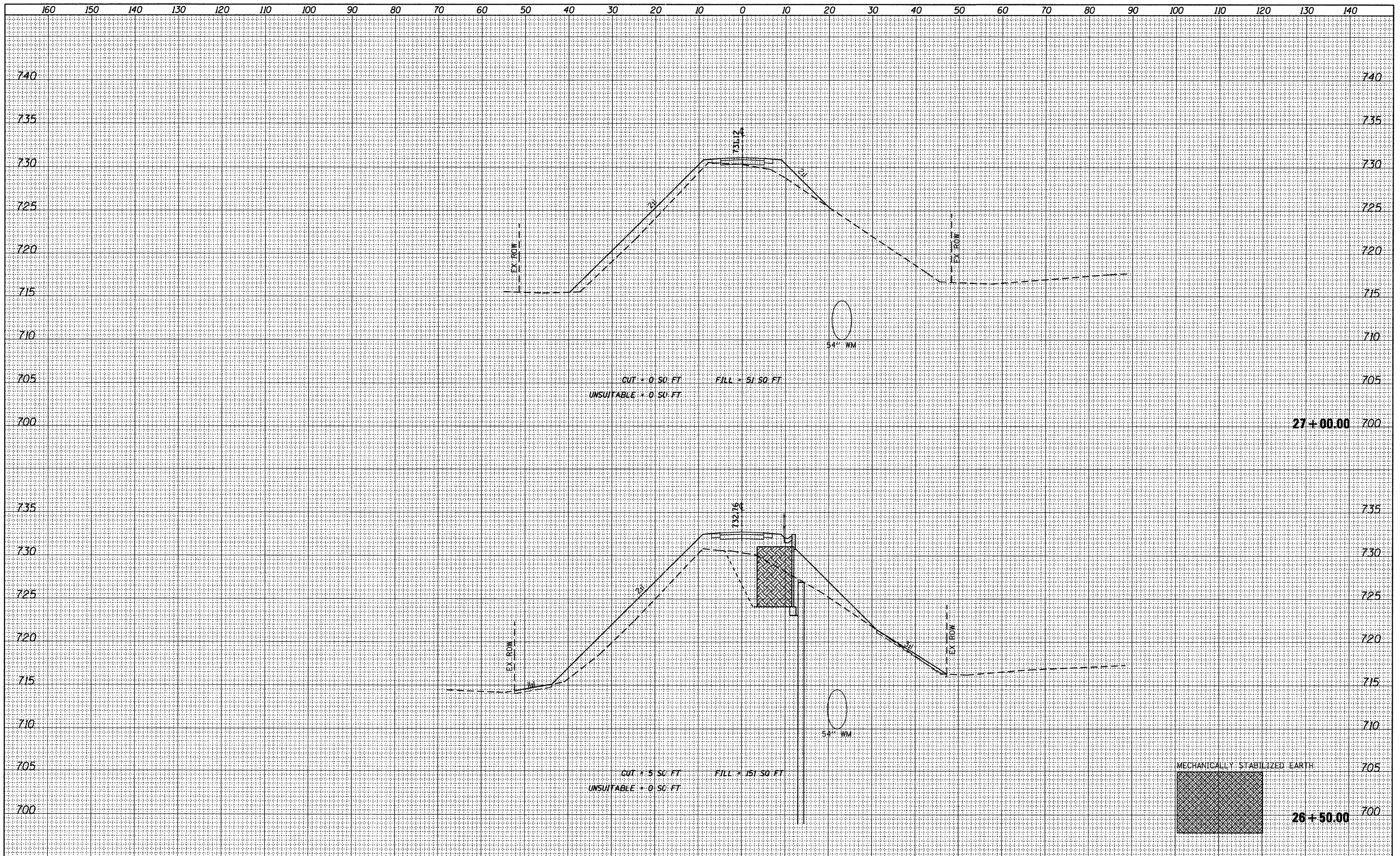


FILE NAME =	USER NAME = delj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>		<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -					06-00151-00-BR	DuPAGE	201	193	
	PLOT SCALE = 10,0000' / IN.	CHECKED - BD	REVISED -					CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

SCALE: 1"=5' VERT. SHEET NO. 43 OF 51 SHEETS STA. 25+72.37 TO STA. 26+00.00

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

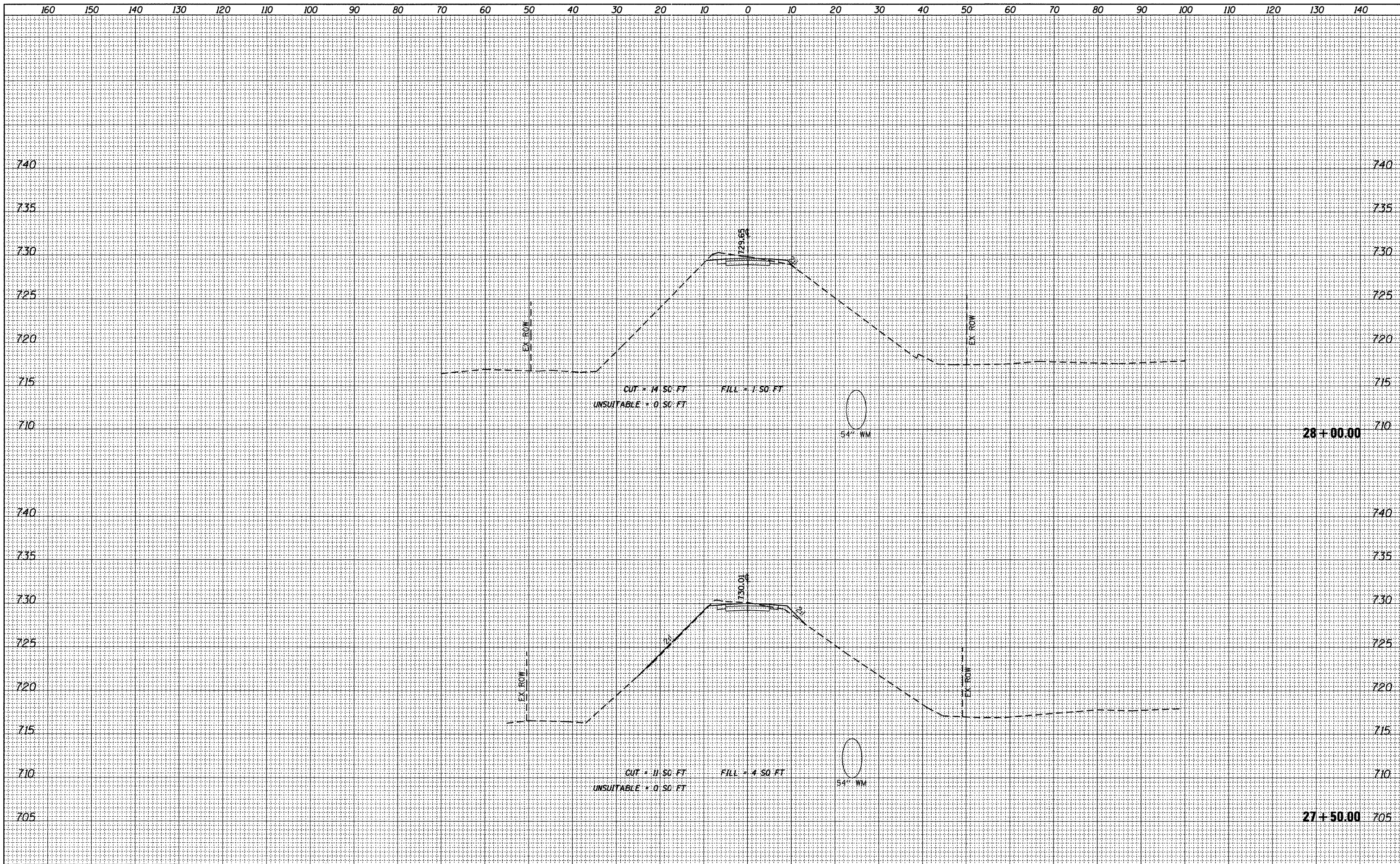
DATE	
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SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =	USER NAME = dalg	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-shr-xsec.dgn	DRAWN - JPS	REVISED -		1"=10' HORIZ.	SCALE: 1"=5' VERT.	SHEET NO. 44 OF 51 SHEETS	06-00151-00-BR	DUPAGE	201	194
	PLOT SCALE = 10,0000' / IN.	CHECKED - BD	REVISED -		STA. 26+50.00	TO STA. 27+00.00		CONTRACT NO. 63568		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 7/22/2011	DATE -	REVISED -								

DATE	
BY	
SURVEYED	
PLANTED	
TEMPERATURE	
WIND	
MOON	
REMARKS	
NO.	

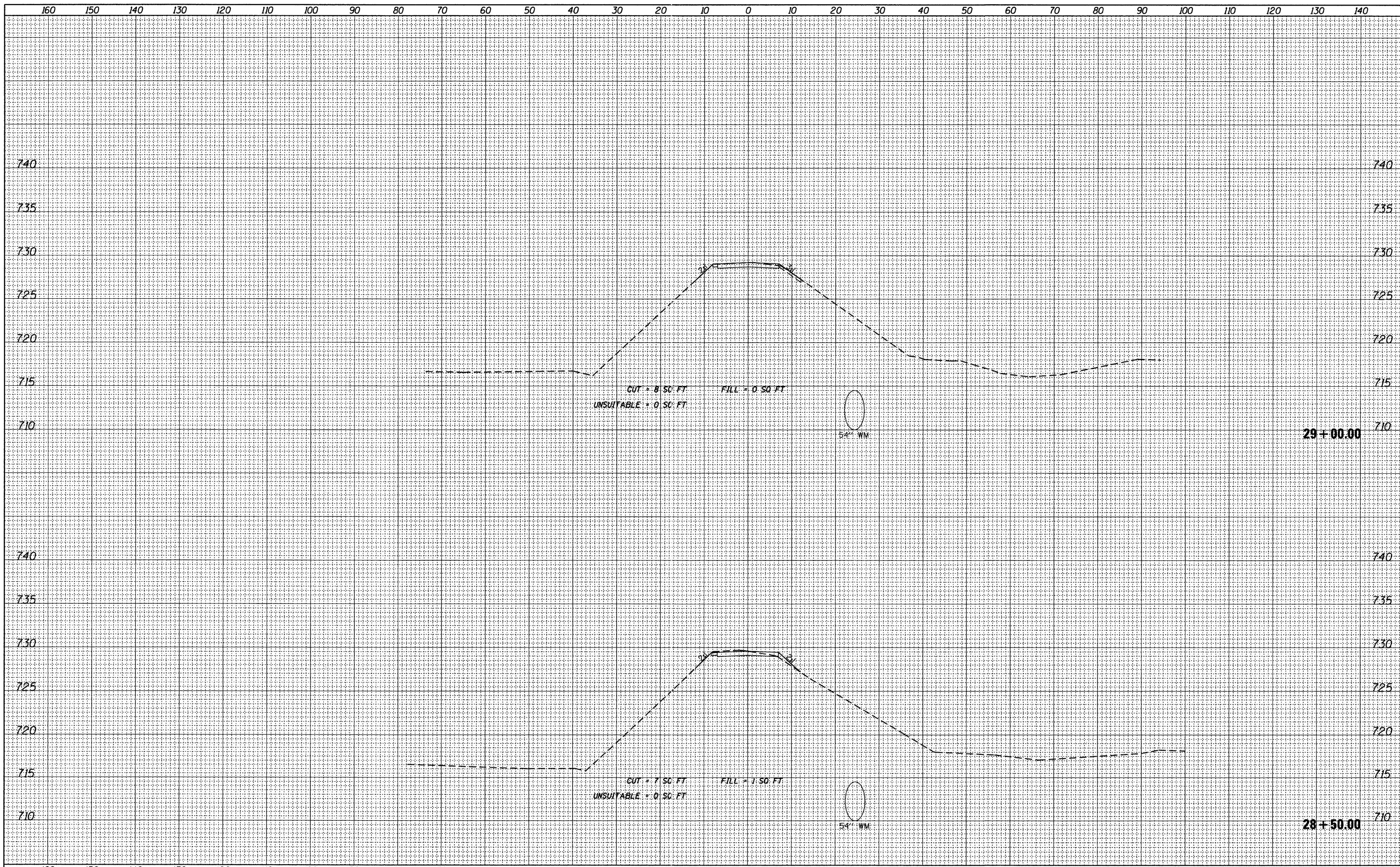
DATE	
BY	
SURVEYED	
PLANTED	
TEMPERATURE	
WIND	
MOON	
REMARKS	
NO.	



FILE NAME =	USER NAME = dalj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\756-004_Lombard - GWT Bridges Phase II\CADD	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -			06-00151-00-BR	DUPAGE	201	195	
PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISOR -	REVISOR -			CONTRACT NO. 63568				
PLOT DATE = 7/22/2011	DATE -	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=10' HORIZ.		STA. 27+50.00 TO STA. 28+00.00			

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase II\CADD

USER NAME = dalj  
 SHEETS\01756004-sht-xsec.dgn  
 PLOT SCALE = 10.0000" / IN.  
 PLOT DATE = 7/22/2011

DESIGNED - JPS  
 DRAWN - JPS  
 CHECKED - BD  
 DATE -

REVISED -  
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**STATE OF ILLINOIS  
 GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL  
 CROSS SECTIONS**

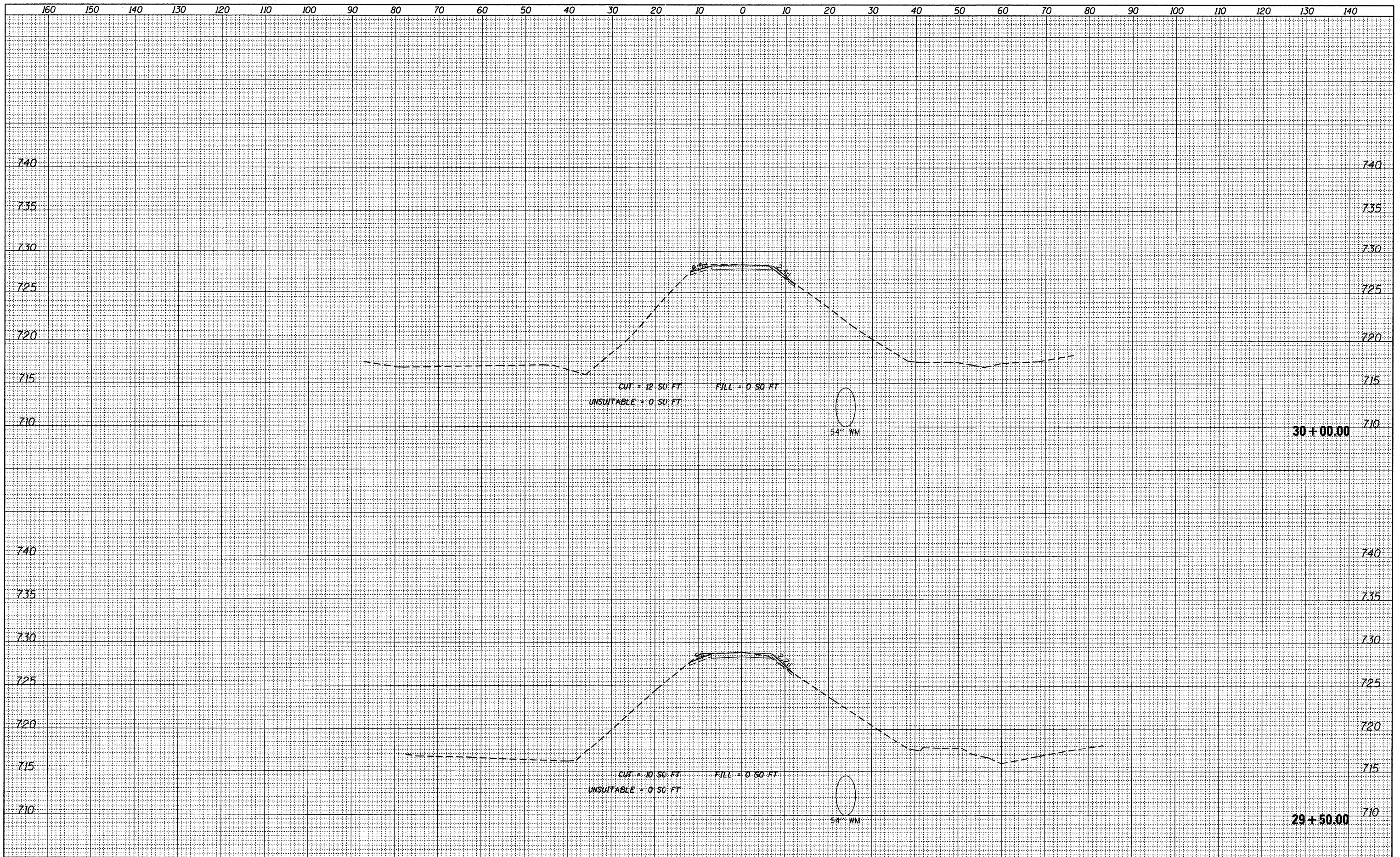
1"=10' HORIZ.  
 SCALE: 1"=5' VERT. SHEET NO. 46 OF 51 SHEETS STA. 28+50.00 TO STA. 29+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DuPAGE	201	196
CONTRACT NO. 63568			ILLINOIS FED. AID PROJECT	



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
DATE	
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AREAS CHECKED	

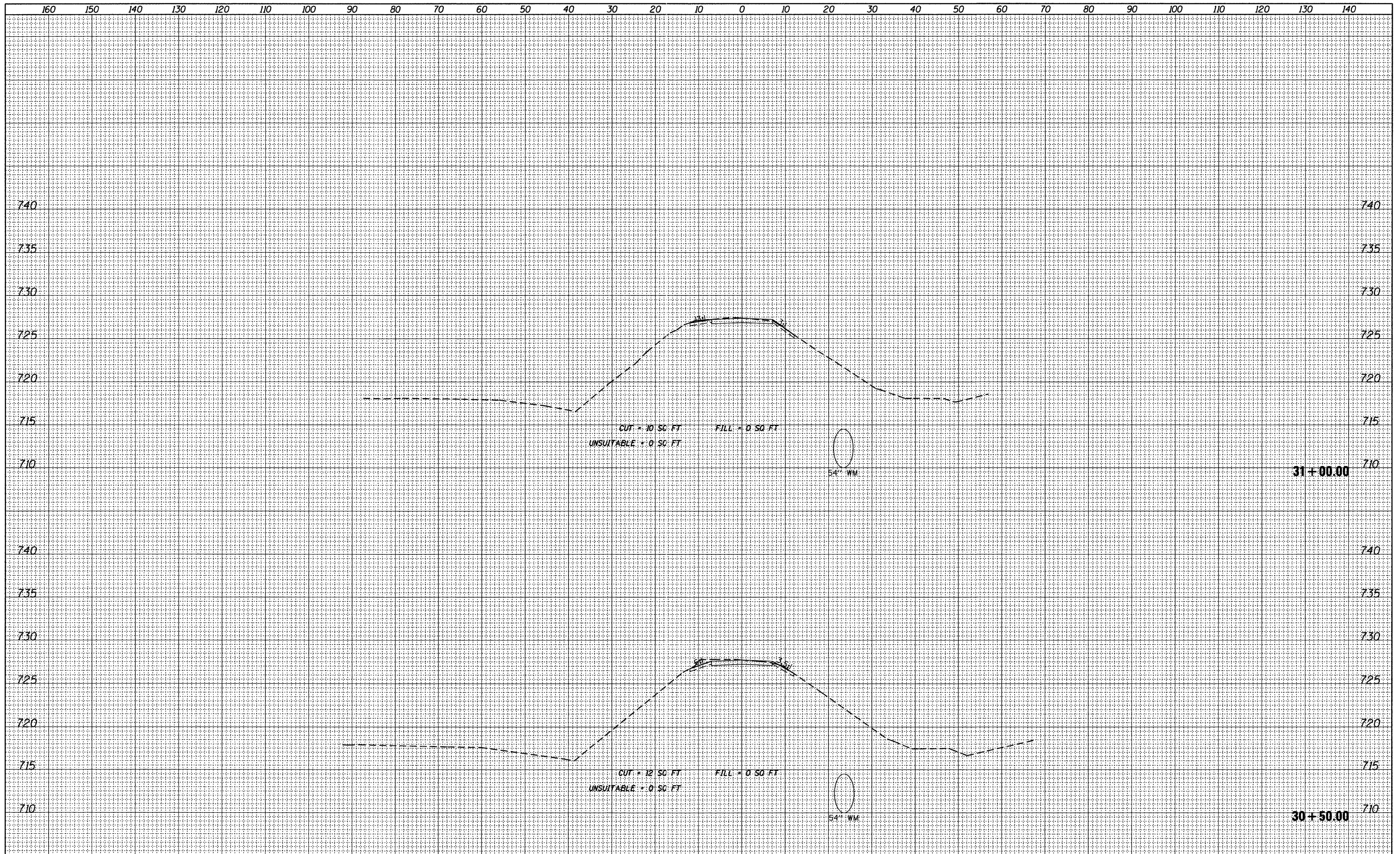
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BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
DATE	
NOTE BOOK	
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AREAS CHECKED	



FILE NAME = W:\756-004_Lombard - GWT Bridges Phase II\CADD	USER NAME = daly Sheets\01756004-sht-xsec.dgn	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10.0000' / IN.	DRAWN - JPS	REVISED -			06-00151-00-BR	DUPAGE	201	197	
	PLOT DATE = 7/22/2011	CHECKED - BD	REVISED -			CONTRACT NO. 63568				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

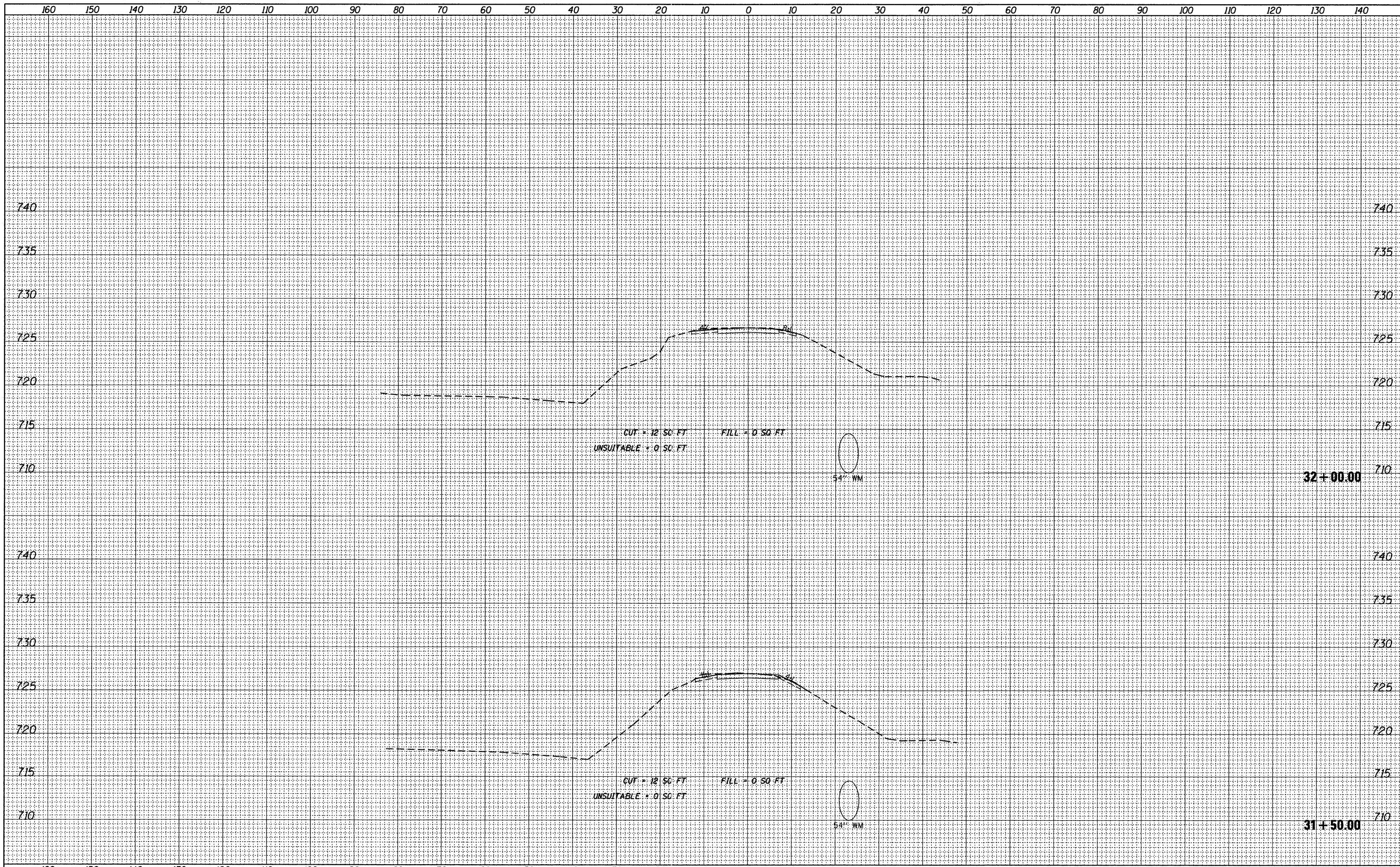
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = W:\756-004_Lombard - GWT Bridges Phase II\CADD	USER NAME = dalj	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b> 1"=10' HORIZ. SCALE: 1"=5' VERT. SHEET NO. 48 OF 201 SHEETS	STA. 30+50.00 TO STA. 31+00.00	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -				06-00151-00-BR	DUPAGE	201	198	
	PLOT SCALE = 10.0000' / IN.	CHECKED - BD	REVISED -				CONTRACT NO. 63568				
	PLOT DATE = 7/22/2011	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



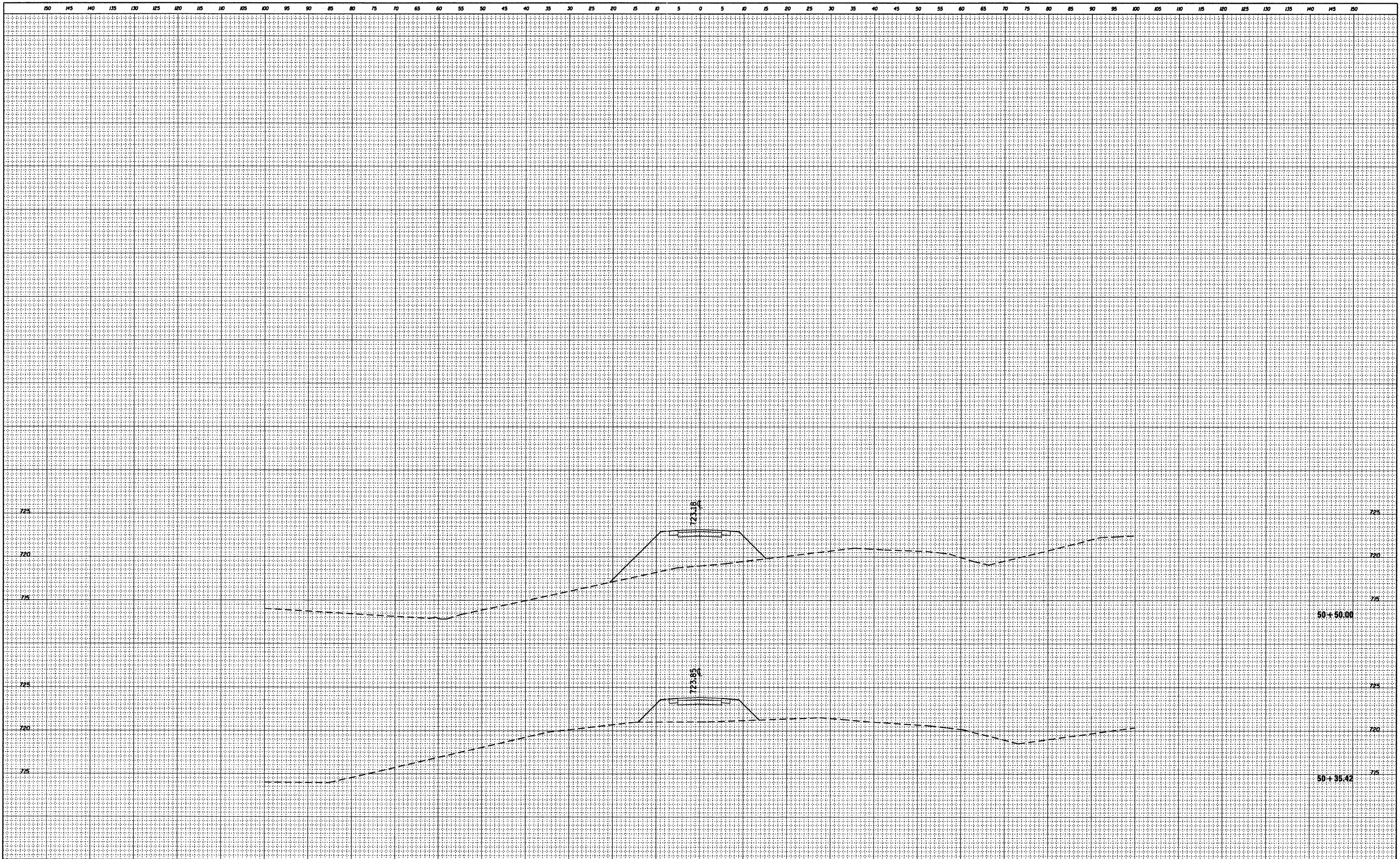
FILE NAME = W:\756-004_Lombard - GWT Bridges Phase II\CADD	USER NAME = daig	DESIGNED - JPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>GREAT WESTERN TRAIL</b>	<b>GREAT WESTERN TRAIL</b> <b>CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Sheets\01756004-sht-xsec.dgn	DRAWN - JPS	REVISED -	06-00151-00-BR			DUPAGE	201	199		
PLOT SCALE = 10,0000' / IN.	CHECKED - BD	REVISED -	CONTRACT NO. 63568							
PLOT DATE = 7/22/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: 1"=5' VERT. SHEET NO. 49 OF 51 SHEETS STA. 31+50.00 TO STA. 32+00.00



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	NO.
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	NO.
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FILE NAME = W:\756-004\_Lombard - GWT Bridges Phase II\CADD

USER NAME = daly  
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 PLOT DATE = 7/22/2011

DESIGNED - JPS  
 DRAWN - JPS  
 CHECKED - BD  
 DATE -

REVISED -  
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 REVISED -  
 REVISED -

**VILLAGE OF LOMBARD  
 GREAT WESTERN TRAIL**

**GREAT WESTERN TRAIL ACCESS  
 CROSS SECTIONS**

1"=10' HORIZ.  
 SCALE: 1"=5' VERT. SHEET NO. 51 OF 51 SHEETS STA. 50+35.42 TO STA. 50+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	201
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				