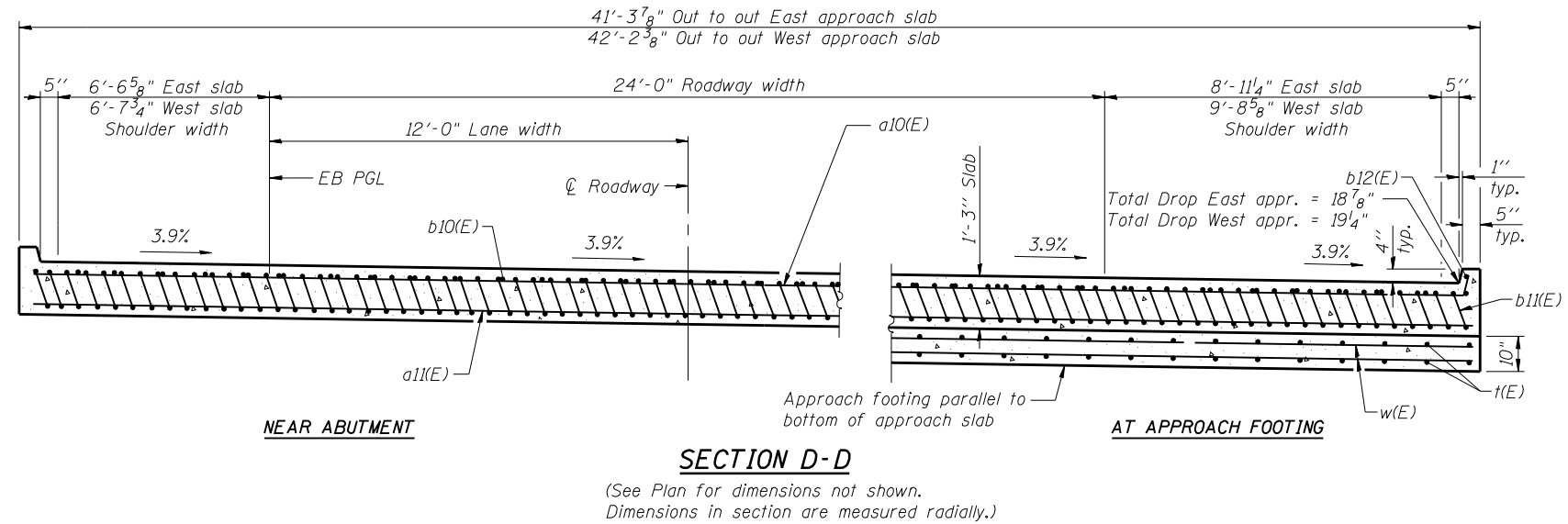
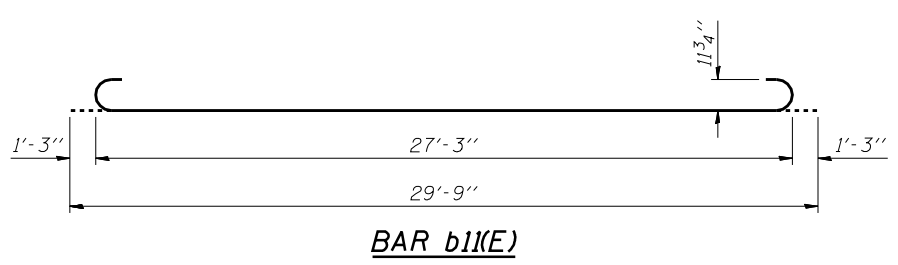
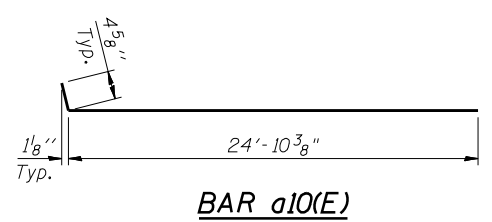
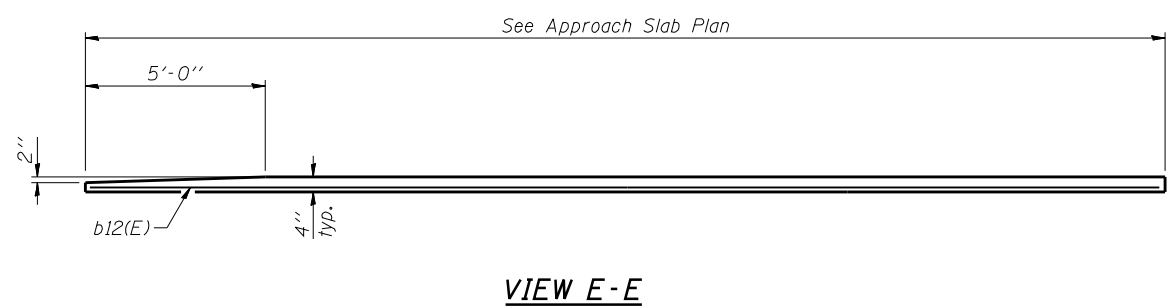


Notes:
 See sheet S-22 and S-23 of S-51 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet S-20 of S-51.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet S-39 of S-51.
 Cost of excavation for approach footing included with Concrete Structures.
 For Select Backfill and drainage treatment details, see sheet S-2 of S-51.
 For additional parapet details, see sheet S-20 of S-51.



* Tilt #9 b11(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	100	#4	25'-3"	U
a11(E)	184	#5	25'-5"	U
b10(E)	70	#4	29'-6"	U
b11(E)	202	#9	29'-9"	U
b12(E)	4	#4	28'-7"	U
t(E)	172	#4	11'-3"	U
w(E)	160	#5	25'-5"	U
Concrete Superstructure		Cu. Yd.	117.3	
Concrete Structures		Cu. Yd.	29.8	
Reinforcement Bars, Epoxy Coated		Pound	34,000	

FILE NAME = 0820119-0120-76884-024-EBApp-Details.dgn



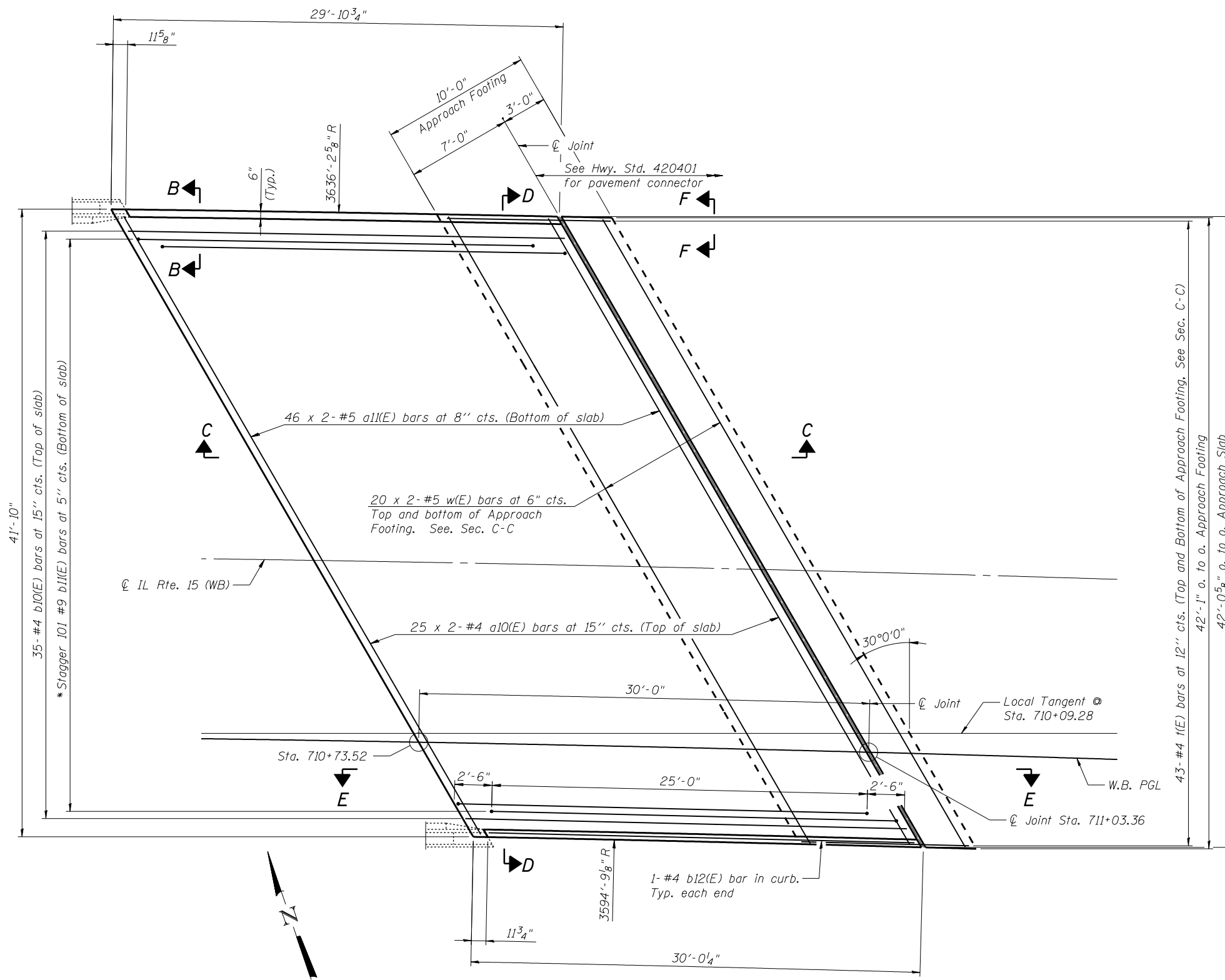
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PLOT DATE = 10/19/2011	CHECKED - BTO	REVISED - -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EASTBOUND BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

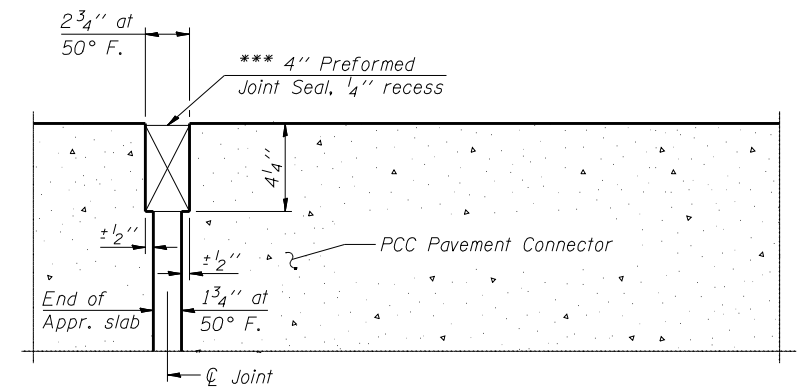
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	201
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

SHEET NO. S-24 OF S-51 SHEETS

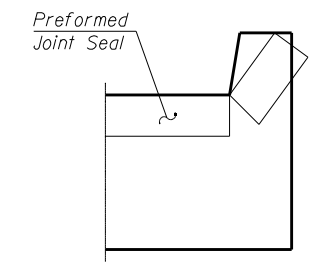
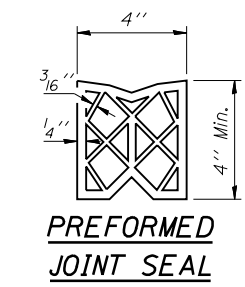


EAST WESTBOUND APPROACH SLAB PLAN

Notes:
 See sheet S-27 of S-51 for Sections C-C & D-D and View E-E.
 a10(E) and a11(E) bar spacings measured along ϕ Rdwy.
 * Tilt #9 b11(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

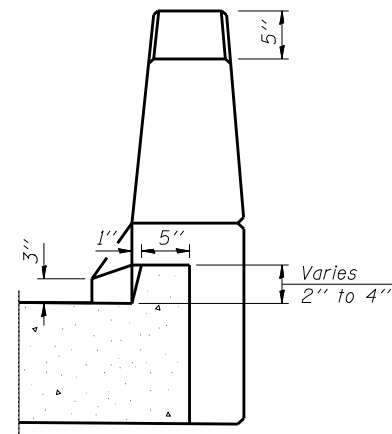


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

MINIMUM BAR LAP

#4 Bars = 1'-10"
 #5 Bars = 2'-7"

FILE NAME = 0820119-0120-76884-025-EastApproachPlan.dgn



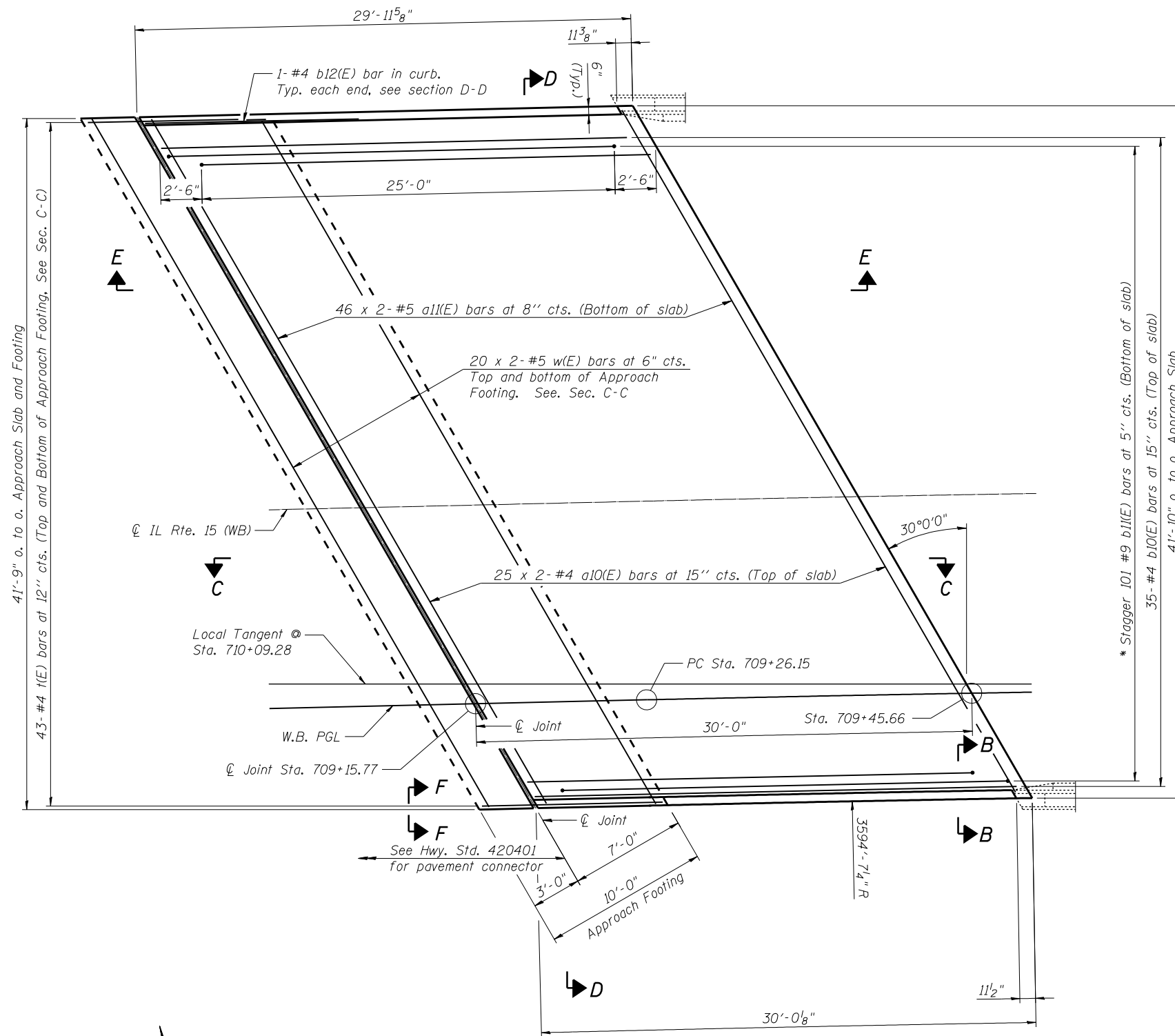
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

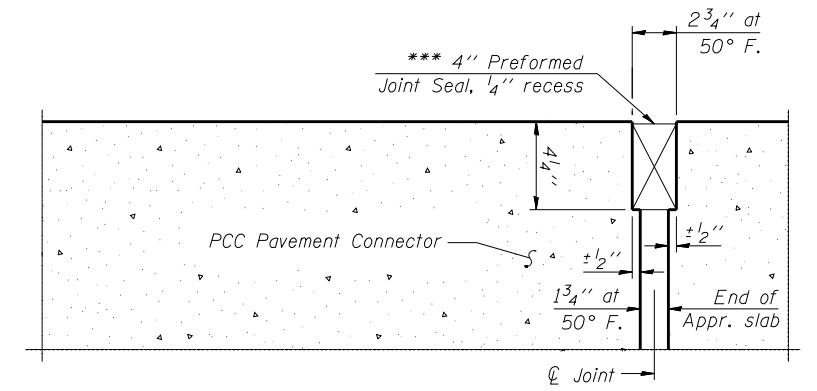
**EAST W.B. BRIDGE APPROACH SLAB PLAN
 STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-25 OF S-51 SHEETS

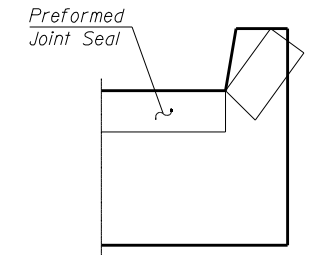
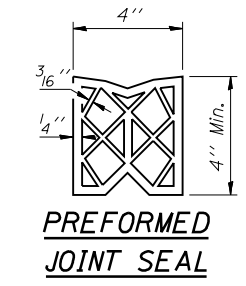
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	202
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	



Notes:
 See sheet S-27 of S-51 for Sections C-C & D-D and View E-E.
 a10(E) and a11(E) bar spacings measured along ϕ Rdwy.
 * Tilt #9 b1(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

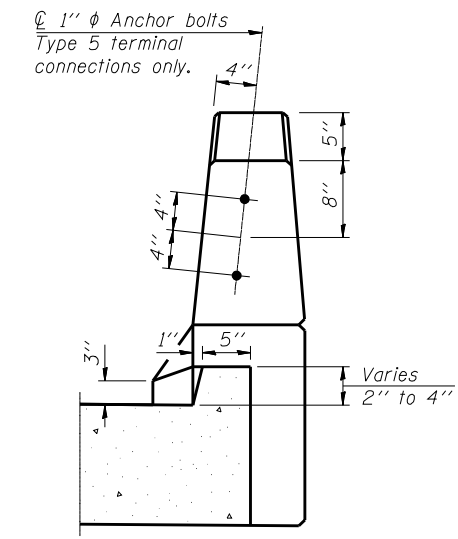


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

MINIMUM BAR LAP

#4 Bars = 1'-10"
 #5 Bars = 2'-7"

WEST WESTBOUND APPROACH SLAB PLAN

FILE NAME = 0820119-0120-76884-026-WestApprPlanWB.dgn



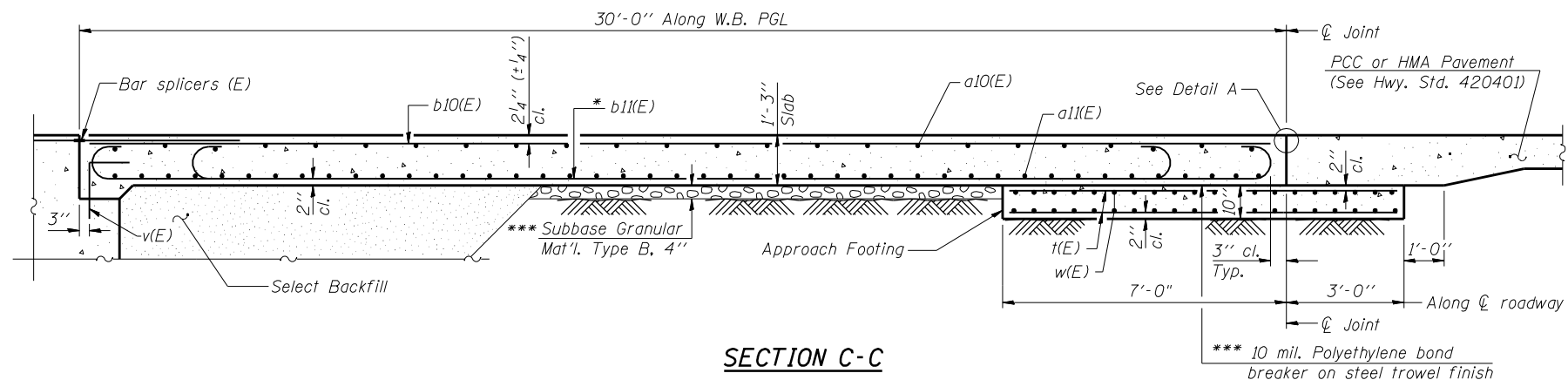
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PLOT SCALE = 8x0 1' / IN.	DRAWN - MJK	REVISED - -
PLOT DATE = 10/19/2011	CHECKED - BTO	REVISED - -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

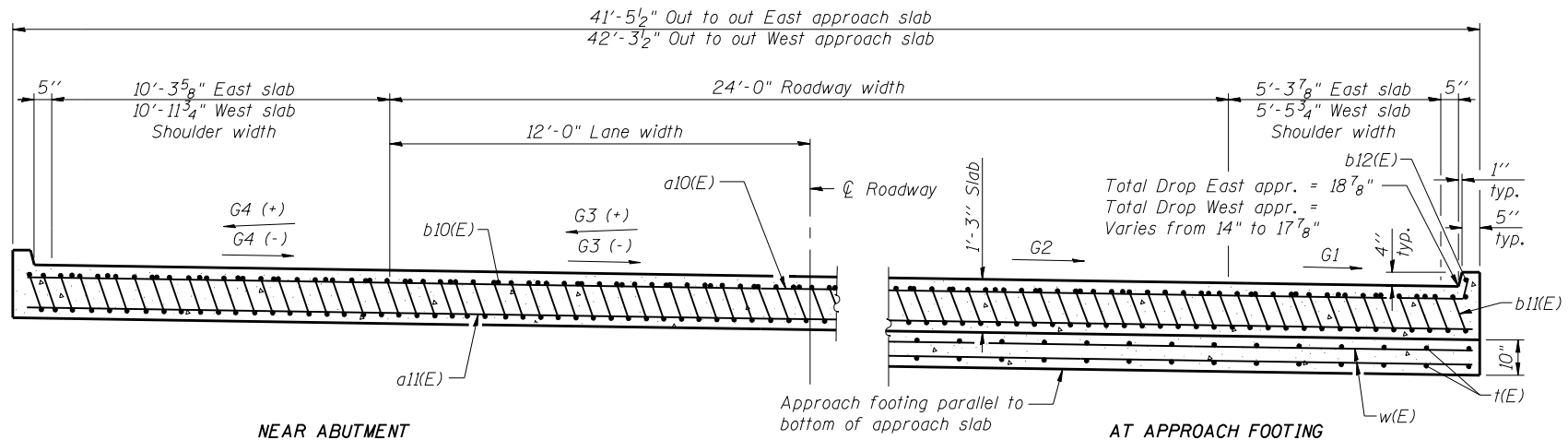
**WEST W.B. BRIDGE APPROACH SLAB PLAN
 STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-26 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	203
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				



Notes:
 See sheet S-25 and S-26 of S-51 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 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 S-21 of S-51.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet S-39 of S-51.
 Cost of excavation for approach footing included with Concrete Structures.
 For Select Backfill and drainage treatment details, see sheet S-2 of S-51.
 For additional parapet details, see sheet S-21 of S-51.

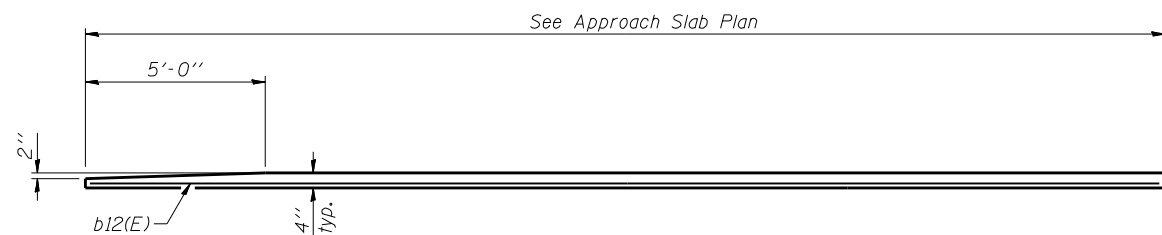


STATION	G1	G2	G3	G4
Up to Sta. 707+64.2	2.08%	1.5%	1.5%	2.08%
Sta. 708+01.4	2.08%	1.5%	0%	
Sta. 708+61.4	2.08%	1.5%	-1.5%	**
Sta. 709+05.4	**	2.6%	-2.6%	
Sta. 709+57.4	3.9%	3.9%	-3.9%	-3.9%

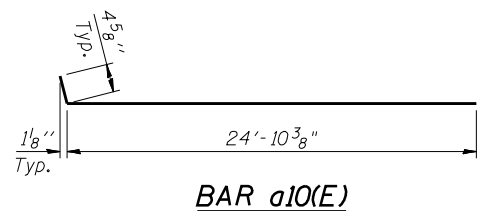
**Uniform Transition

* Tilt #9 b11(E) bars as required to maintain clearance.

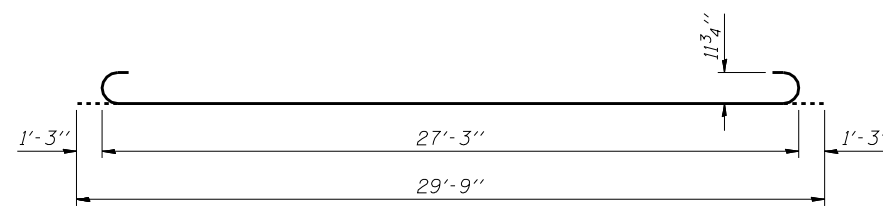
*** Cost included with Concrete Superstructure.



VIEW E-E



BAR a10(E)



BAR b11(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	100	#4	25'-3"	—
a11(E)	184	#5	25'-5"	—
b10(E)	70	#4	29'-6"	—
b11(E)	202	#9	29'-9"	—
b12(E)	4	#4	28'-7"	—
t(E)	172	#4	11'-3"	—
w(E)	160	#5	25'-5"	—
Concrete Superstructure			Cu. Yd.	117.1
Concrete Structures			Cu. Yd.	29.9
Reinforcement Bars, Epoxy Coated			Pound	34,000

FILE NAME = 0820119-0120-76884-027-WBAppr-Details.dgn



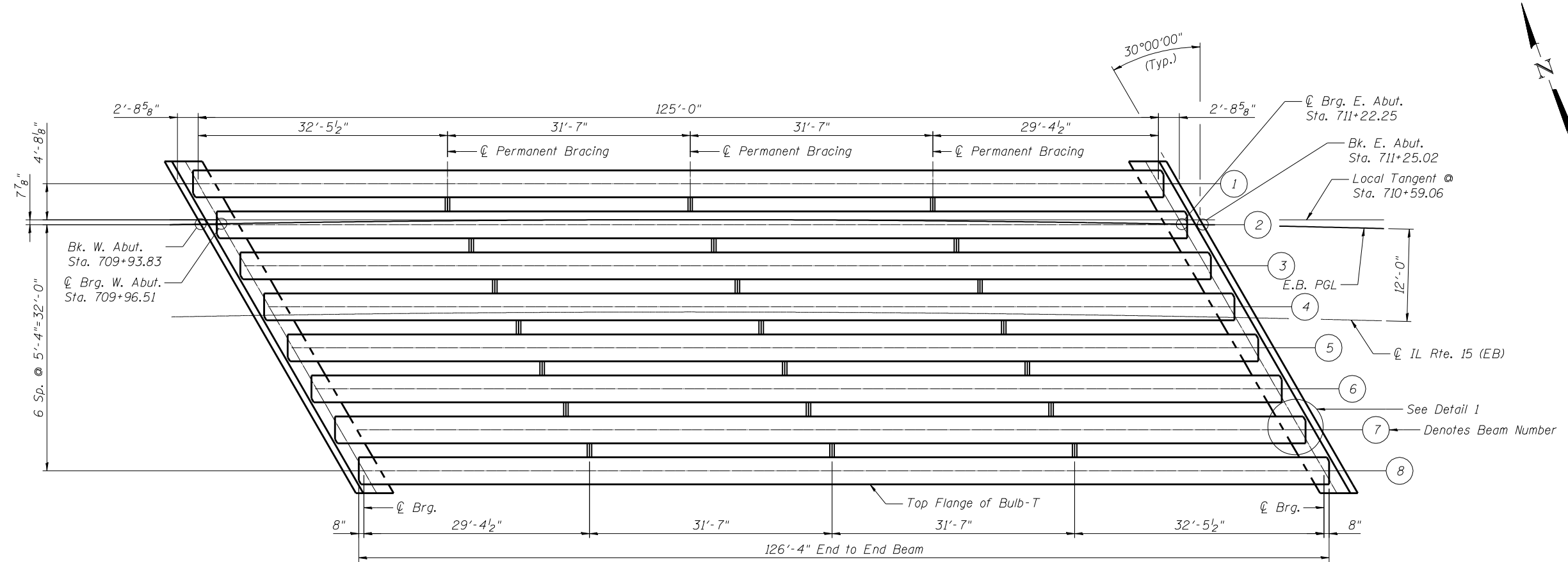
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PLOT DATE = 10/19/2011	CHECKED - BTO	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-27 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	204
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

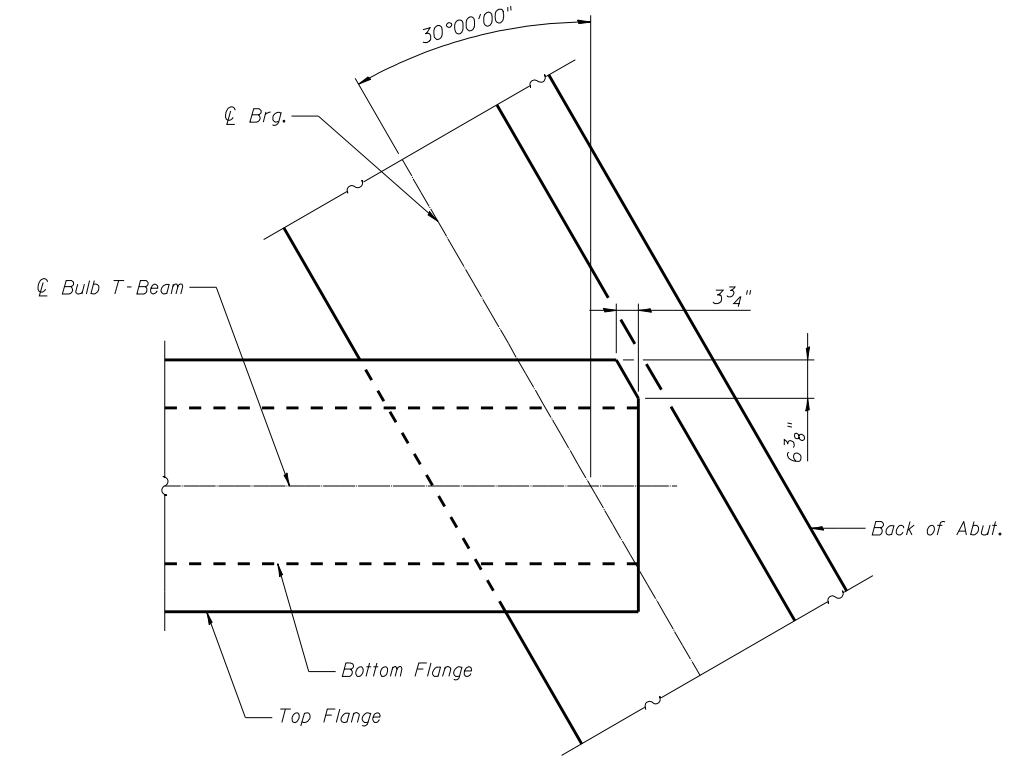


72" BULB T-BEAM FRAMING PLAN-EB

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
<i>I</i>	(in ⁴)	545894
<i>I'</i>	(in ⁴)	929607
<i>S_b</i>	(in ³)	14915
<i>S_b'</i>	(in ³)	18882
<i>S_t</i>	(in ³)	15421
<i>S_t'</i>	(in ³)	40832
<i>DC1</i>	(k/')	1.4
<i>M_{DC1}</i>	(k)	2730
<i>DC2</i>	(k/')	0.11
<i>M_{DC2}</i>	(k)	220
<i>DW</i>	(k/')	0.27
<i>M_{DW}</i>	(k)	521
<i>M_{L + IM}</i>	(k)	2194

INTERIOR BEAM REACTION TABLE		
Abut.		
<i>R_{DC1}</i>	(k)	87.5
<i>R_{DC2}</i>	(k)	6.9
<i>R_{DW}</i>	(k)	16.9
<i>R_{L + IM}</i>	(k)	88.3
<i>R_{Total}</i>	(k)	199.6

I: Non-composite moment of inertia of beam section (in⁴).
I': Composite moment of inertia of beam section (in⁴).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: 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_{DC2}: 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_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



DETAIL 1

NOTE: See Sht. S-31 for Permanent Bracing Details

FILE NAME = 0820119-0120-76884-028-FramingEB.dgn



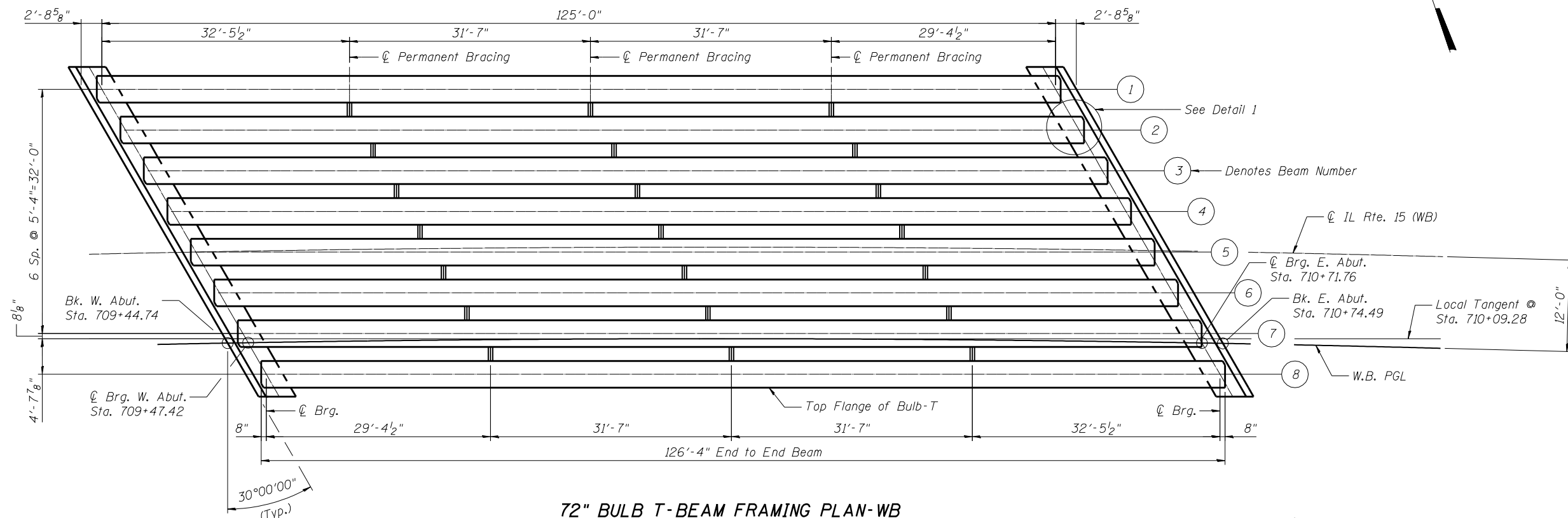
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PLOT DATE = 10/19/2011	DRAWN - MJK	REVISED - -
	CHECKED - JAN	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN, MOMENT AND REACTION TABLE EASTBOUND
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-28 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	205
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	



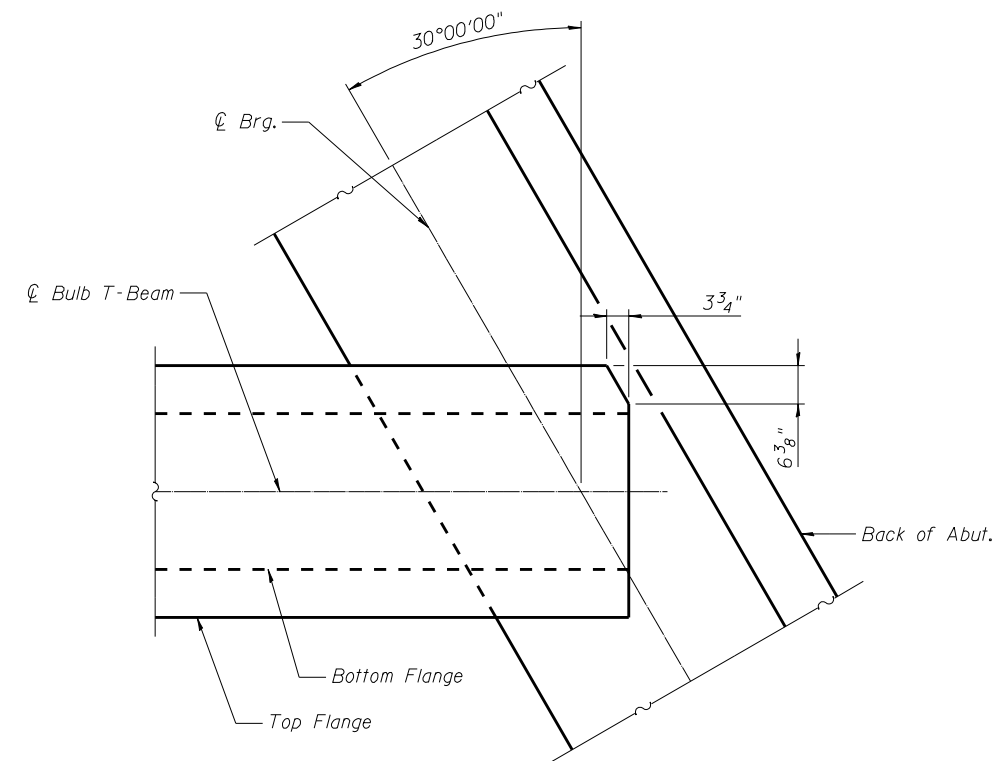
72" BULB T-BEAM FRAMING PLAN-WB

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in ⁴)	545894
I'	(in ⁴)	929607
S_b	(in ³)	14915
S_b'	(in ³)	18882
S_t	(in ³)	15421
S_t'	(in ³)	40832
$DC1$	(k/')	1.4
M_{DC1}	('k)	2730
$DC2$	(k/')	0.11
M_{DC2}	('k)	220
DW	(k/')	0.27
M_{DW}	('k)	521
$M_L + IM$	('k)	2194

INTERIOR BEAM REACTION TABLE		
		Abut.
R_{DC1}	(k)	87.5
R_{DC2}	(k)	6.9
R_{DW}	(k)	16.9
$R_L + IM$	(k)	88.3
R_{Total}	(k)	199.6

I : Non-composite moment of inertia of beam section (in.⁴).
 I' : Composite moment of inertia of beam section (in.⁴).
 S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_t : Non-composite section modulus for the top fiber of the prestressed beam (in.³).
 S_t' : Composite section modulus for the top fiber of the prestressed beam (in.³).
 $DC1$: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : 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_{DC2} : 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_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

NOTE: See Sht. S-31 for Permanent Bracing Details



DETAIL 1

FILE NAME = 0820119-0120-76884-029-FramingWB.dgn



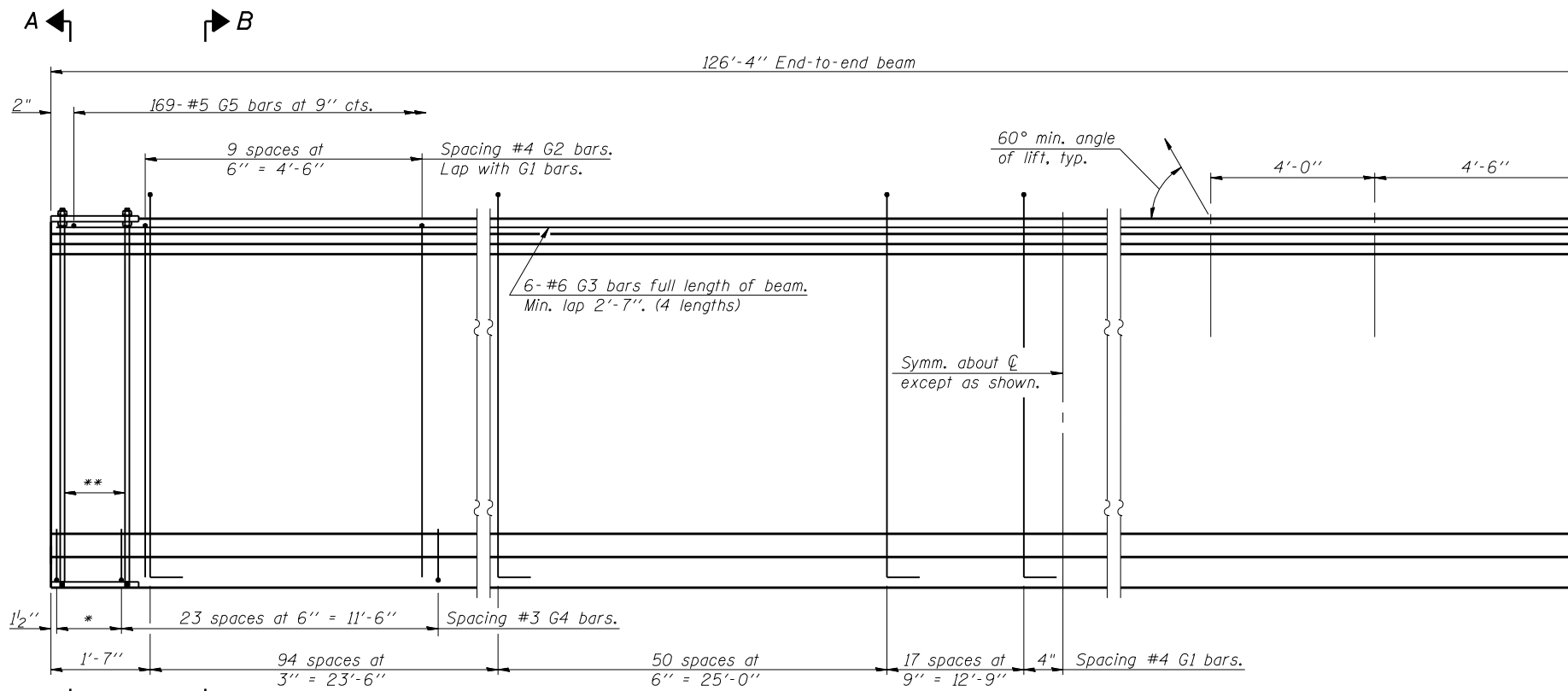
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PLOT DATE = 10/19/2011	DRAWN - MJK	REVISED - -
	CHECKED - JAN	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN, MOMENT AND REACTION TABLE WESTBOUND
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

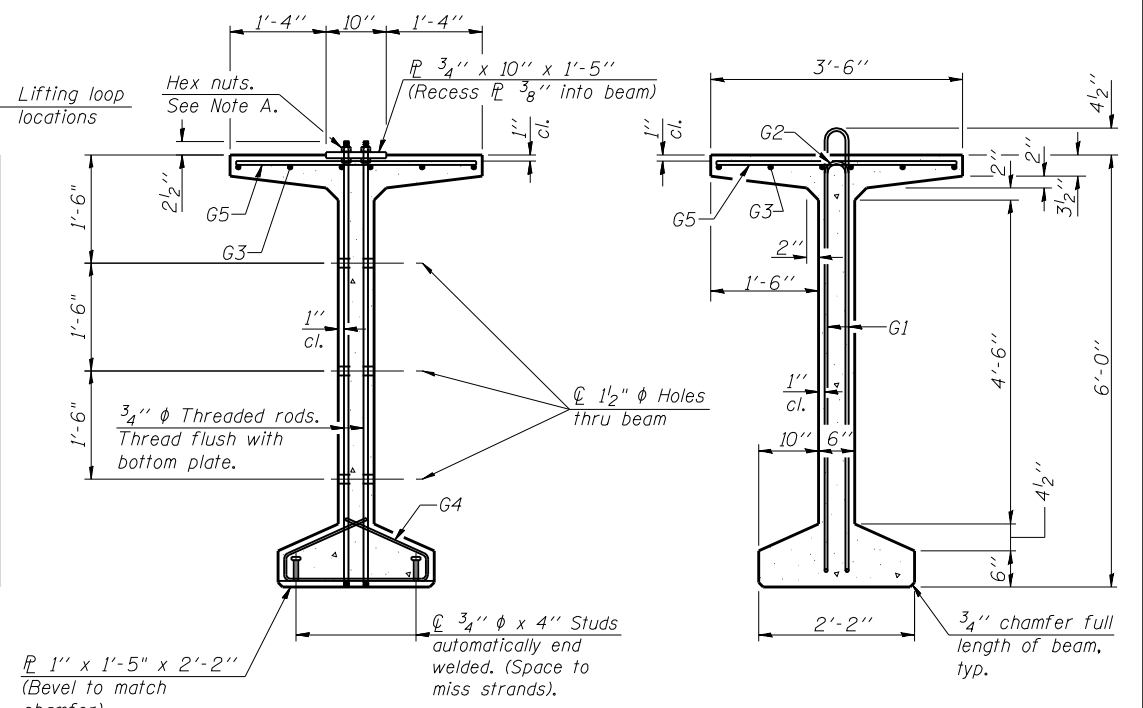
SHEET NO. S-29 OF S-51 SHEETS

F.A.P. RTE. 103	SECTION 27-1-VHB-1	COUNTY ST. CLAIR	TOTAL SHEETS 277	SHEET NO. 206
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

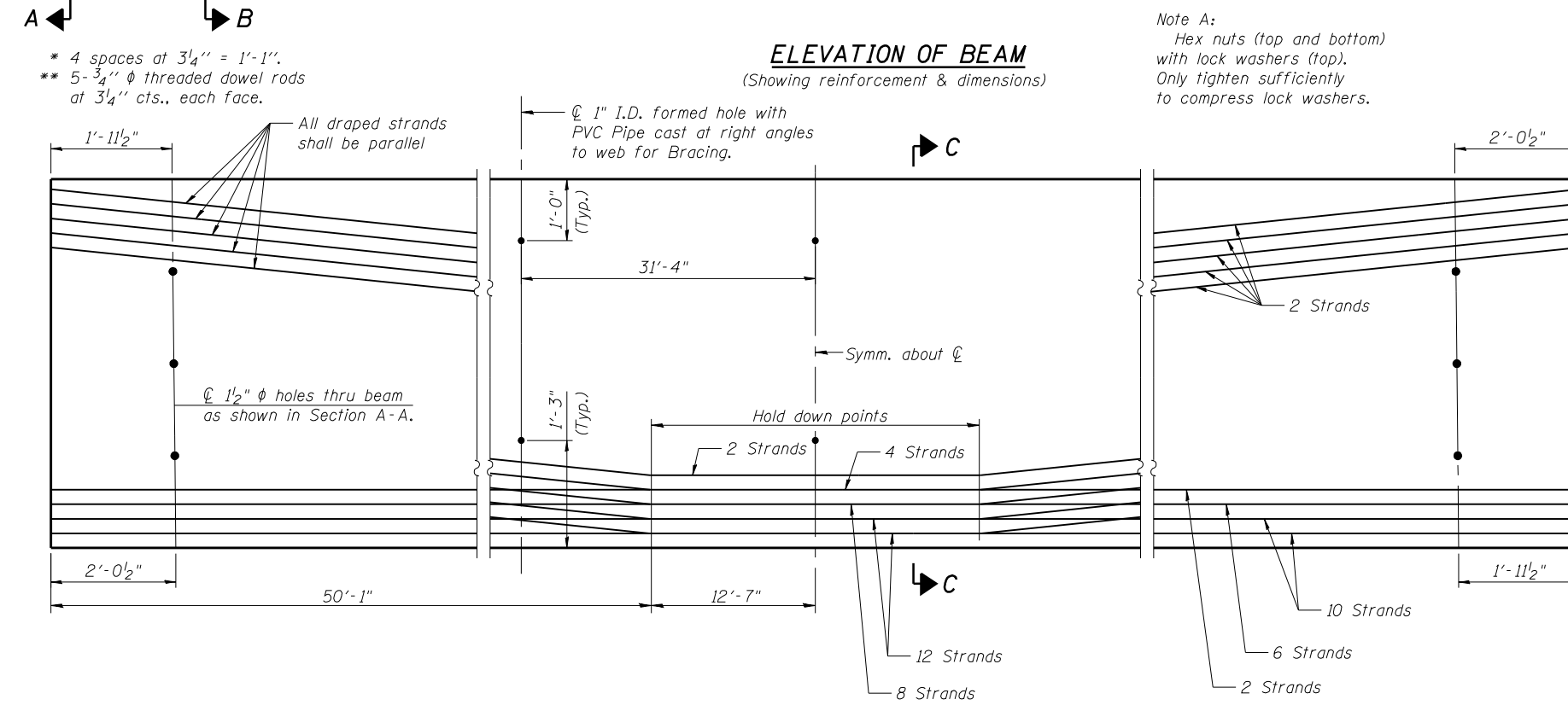
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



SECTION A-A

SECTION B-B

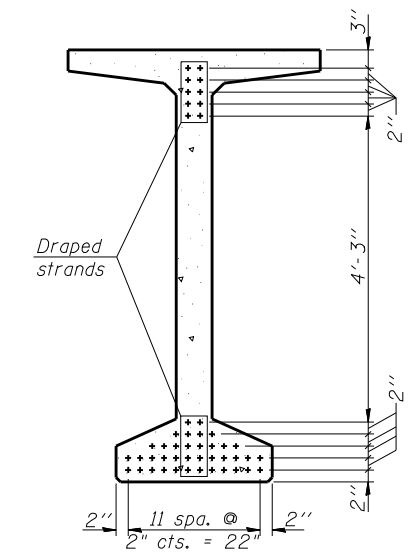
Hex nuts. See Note A.
Recess 3/8" into beam.
1 1/2" cl.
3/4" φ Threaded rods. Thread flush with bottom plate.
1" cl.
10" 6"
φ 1 1/2" φ Holes thru beam.
φ 3/4" φ x 4" Studs automatically end welded. (Space to miss strands).
φ 1" x 1'-5" x 2'-2" (Bevel to match chamfer).



ELEVATION OF BEAM
(Showing prestressing steel)

* 4 spaces at 3/4" = 1'-1".
** 5-3/4" φ threaded dowel rods at 3/4" cts., each face.

All draped strands shall be parallel.



SECTION C-C

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

Bar	No.	Size	Length	Shape
G1	324	#4	13'-5"	∩
G2	20	#4	11'-8"	∩
G3	24	#6	33'-6"	—
G4	56	#3	4'-11"	∩
G5	169	#5	3'-4"	—

***For information only

Notes:
See sheet S-31 of S-51 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.

**DESIGN STRESSES
PRECAST PRESTRESSED CONC. UNITS**

f'c = 7,000 psi
f'ci = 6,000 psi
fpu = 270,000 psi
fpbt = 201,960 psi

FILE NAME = 0820119-0120-76884-030-PPCBulbTBeam.dgn



USER NAME = brazzara	DESIGNED - MJK	REVISED - -
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PLOT DATE = 10/19/2011	DRAWN - MJK	REVISED - -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

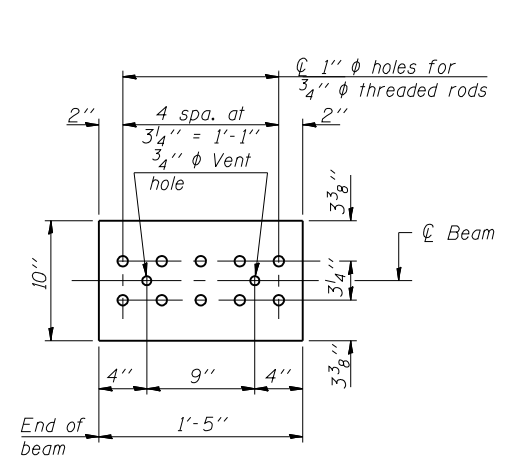
**72" PPC BULB T-BEAM
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-30 OF S-51 SHEETS

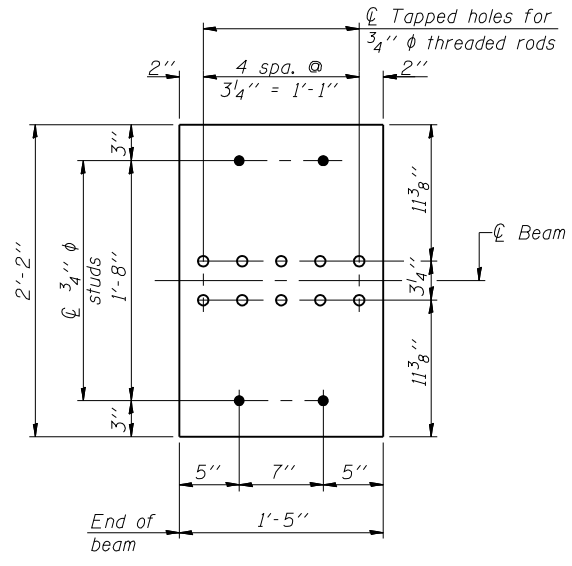
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	207
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				

NOTES

Inserts for 3/4" φ 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" φ lifting pin shall be used to engage the lifting loops during handling. 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. All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.



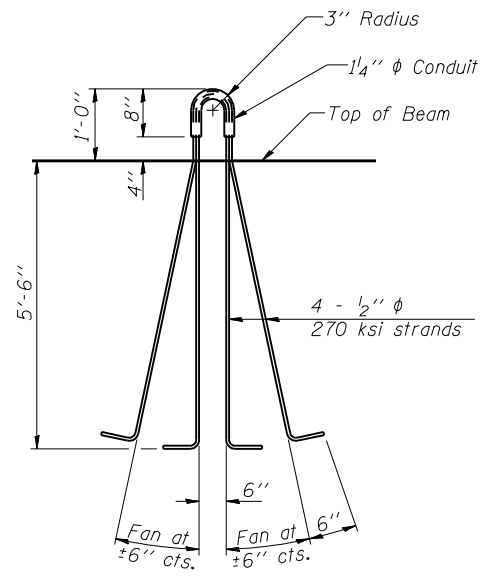
TOP PLATE



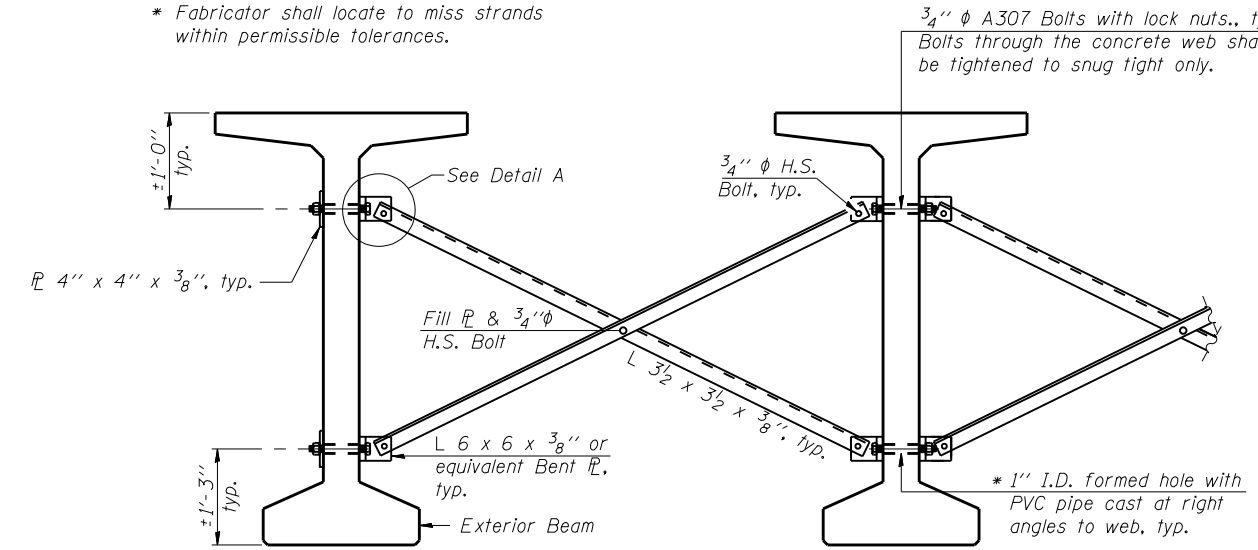
BOTTOM PLATE

See bearing details for pintle hole locations when required.

* Fabricator shall locate to miss strands within permissible tolerances.

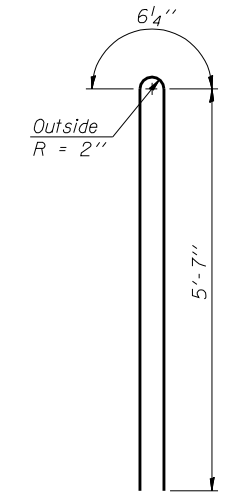


LIFTING LOOP DETAIL

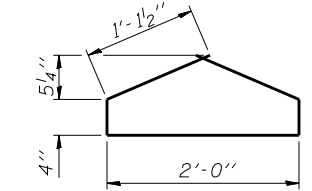


Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes. All holes shall be 15/16" φ unless otherwise noted. 5/16" x 3" x 3" plate washers are required over all slotted holes. All bolts 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 Bulb T-Beams, 72".

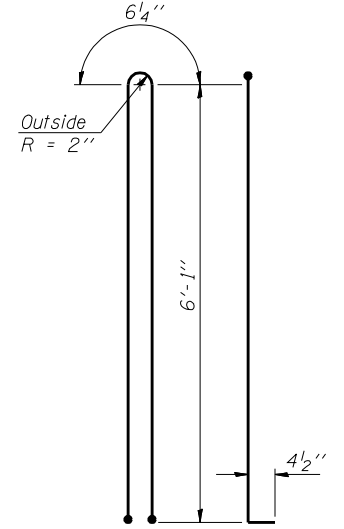
PERMANENT BRACING DETAILS FOR BULB-T BEAMS



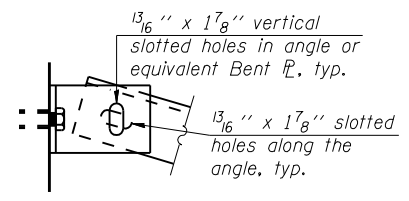
BAR G2



BAR G4



BAR G1



DETAIL A

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72"	Ft.	2021.5

*Both Structures

FILE NAME = 0820119-0120-76884-031-PPCBulbTBeamDetails.dgn



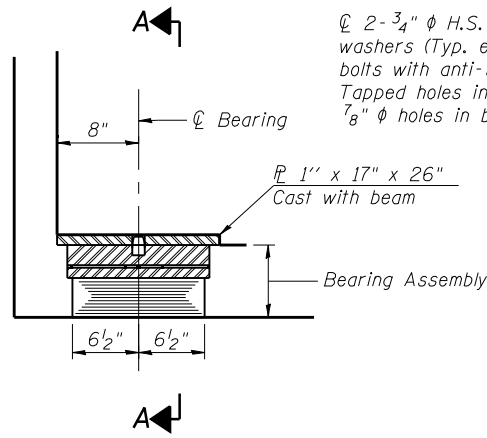
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	CHECKED - BTO	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

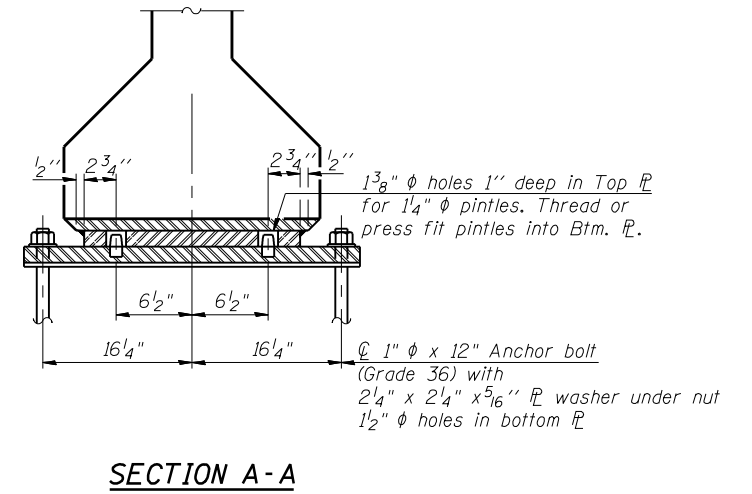
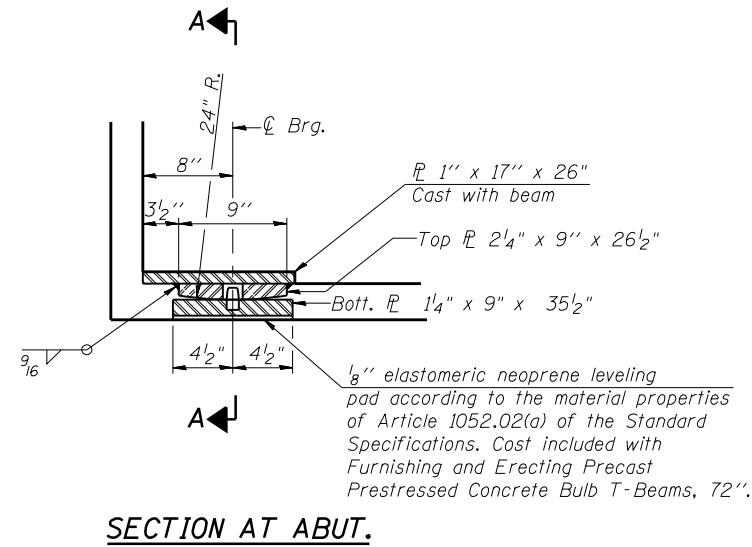
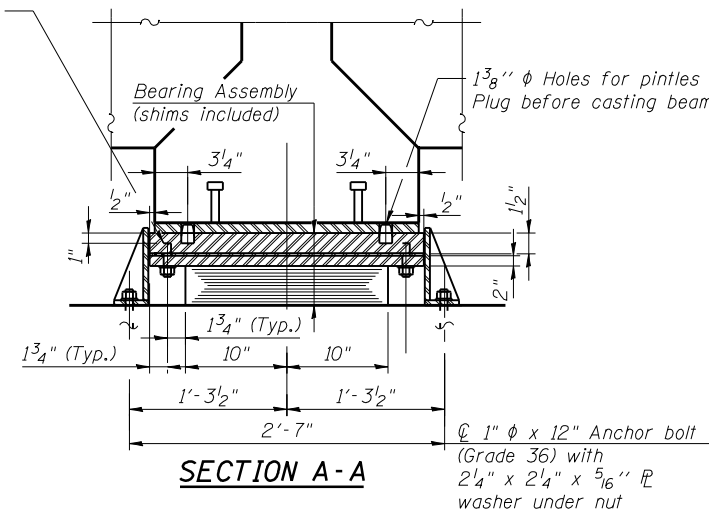
**72" PPC BULB T-BEAM DETAILS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-31 OF S-51 SHEETS

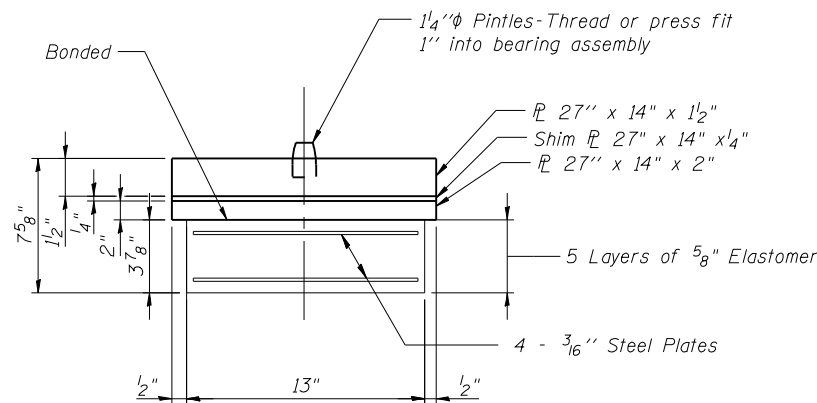
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	208
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76884	



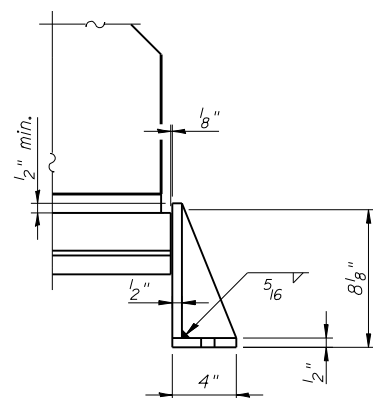
2-3/4" ϕ H.S. Bolts w/ lock washers (Typ. ea. side) (Coat bolts with anti-seize compound)
Tapped holes in middle $\frac{7}{8}$ " ϕ holes in bearing $\frac{7}{8}$ " ϕ



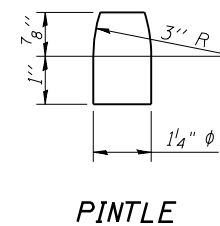
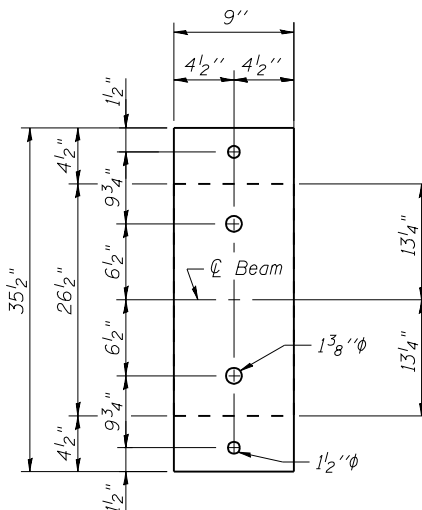
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY



SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers may be cast in place or installed in holes drilled after members are in place.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place and prior to pouring the deck.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
See sheet S-31 of S-46 for additional details of plate cast with beam.
All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 50.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	16
Anchor Bolts 1"	Each	32

FILE NAME = 0820119-0120-76884-032-Bearing.dgn



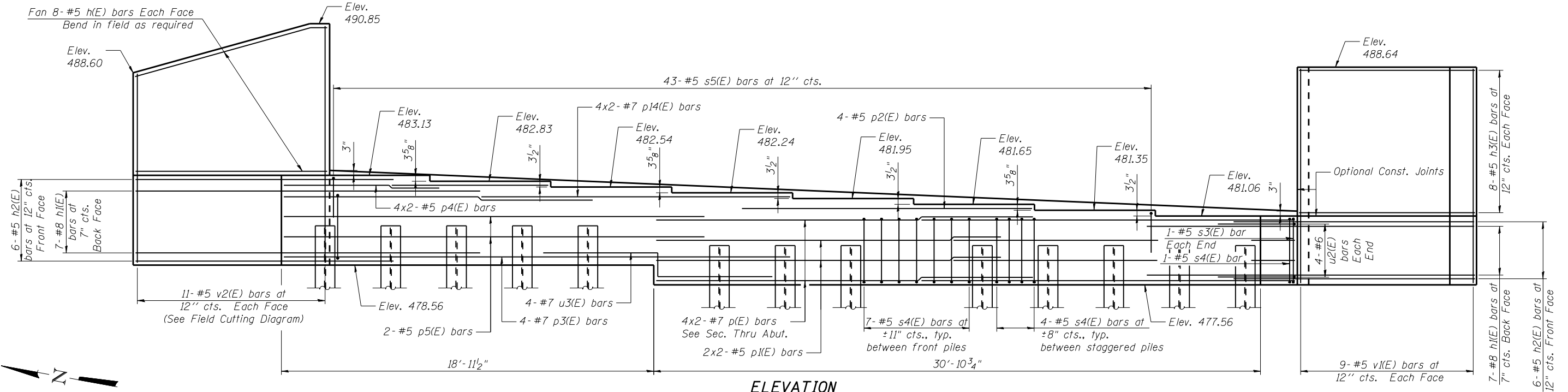
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	CHECKED - JAN	REVISED - -

STATE OF ILLINOIS
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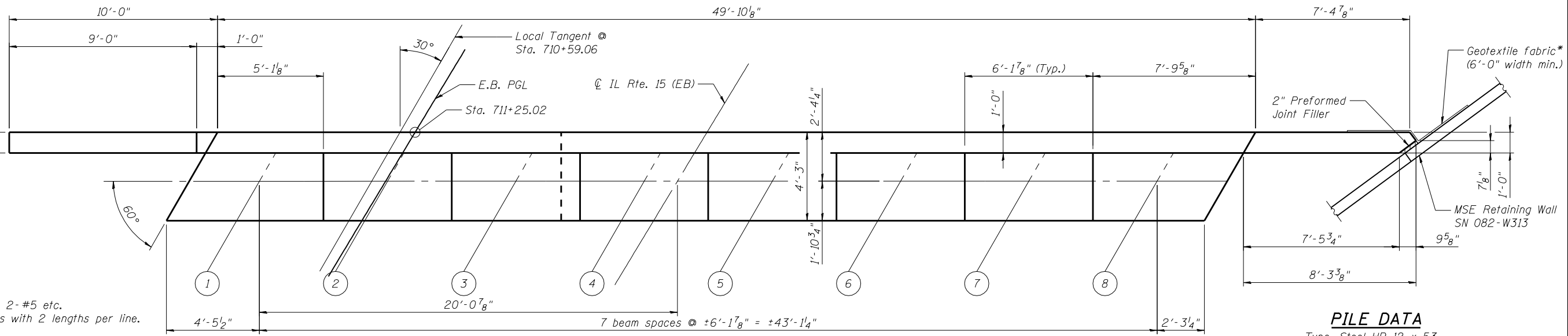
BEARING DETAILS
STRUCTURE NO. 082-0119 (EB) & 082-0120 (WB)

SHEET NO. S-32 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	209
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking East)



TOP VIEW

MIN. BAR LAP

- #5 bar = 2'-7"
- #6 bar = 3'-10"
- #7 bar = 5'-10"

NOTES:

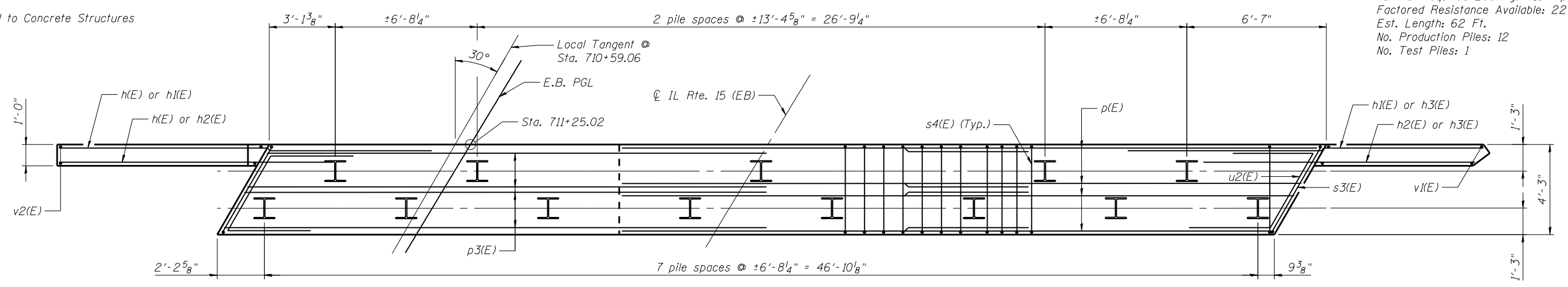
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

Cast steps monolithically with cap.

*Item incidental to Concrete Structures

PILE DATA

Type: Steel HP 12 x 53
 Nominal Required Bearing: 413 Kips
 Factored Resistance Available: 227 Kips
 Est. Length: 62 Ft.
 No. Production Piles: 12
 No. Test Piles: 1



PILE PLAN

FILE NAME = 0820119-0120-76884-0233-EastAbutEB.dgn



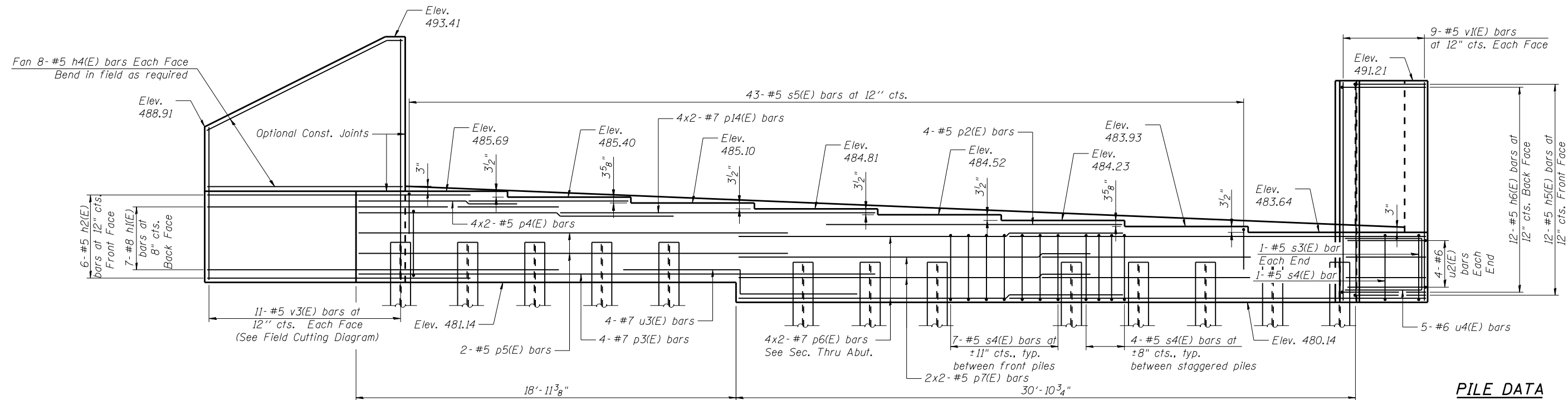
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	CHECKED - SAB	REVISED -
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PLOT DATE = 10/19/2011	CHECKED - SAB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT PLAN AND ELEVATION EASTBOUND
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

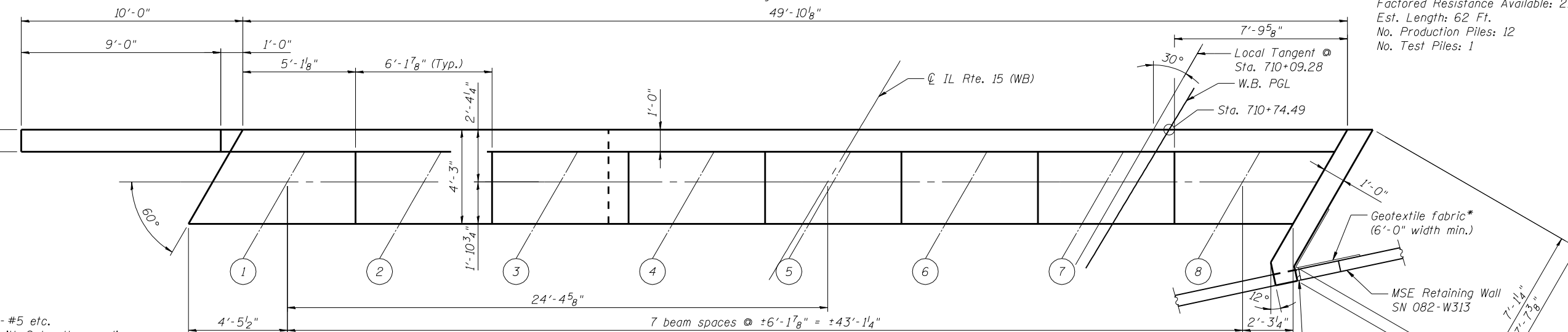
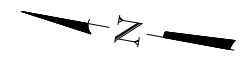
SHEET NO. S-33 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	210
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking East)
49'-10 1/8"

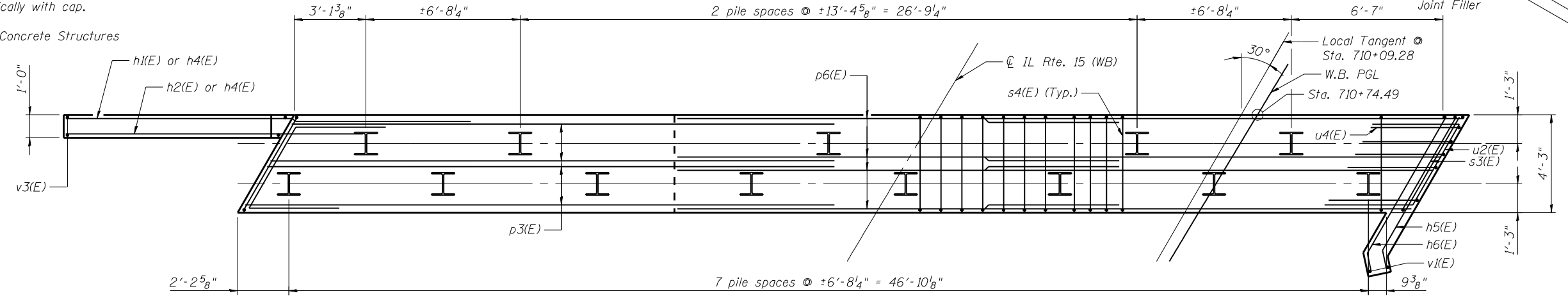
PILE DATA
Type: Steel HP 12 x 53
Nominal Required Bearing: 400 Kips
Factored Resistance Available: 220 Kips
Est. Length: 62 Ft.
No. Production Piles: 12
No. Test Piles: 1



TOP VIEW

MIN. BAR LAP
#5 bar = 2'-7"
#6 bar = 3'-10"
#7 bar = 5'-10"

NOTES:
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.
Cast steps monolithically with cap.
*Item incidental to Concrete Structures



PILE PLAN

FILE NAME = 0820119-0120-76884-034-EastAbut.WB.dgn



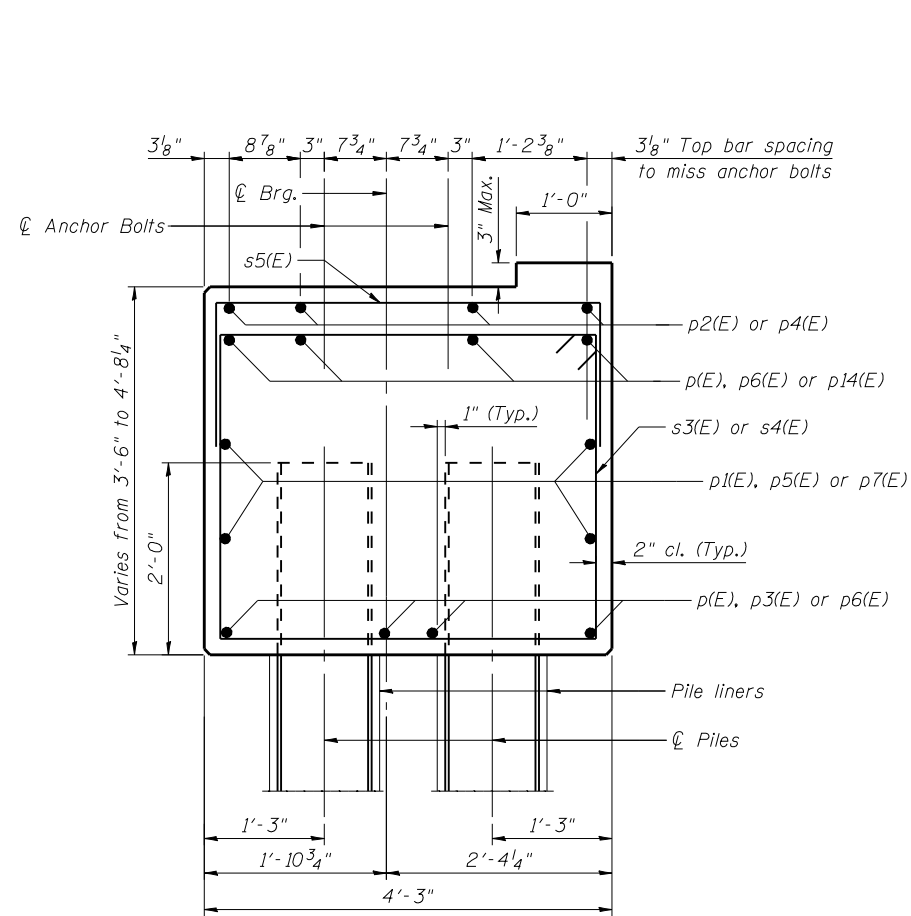
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	CHECKED - SAB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

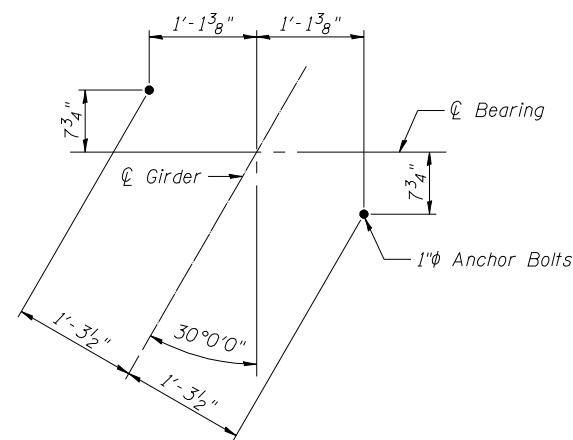
**EAST ABUTMENT PLAN AND ELEVATION WESTBOUND
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-34 OF S-51 SHEETS

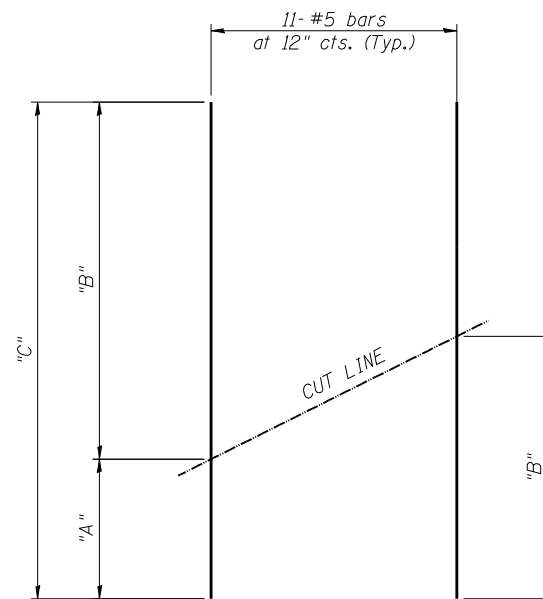
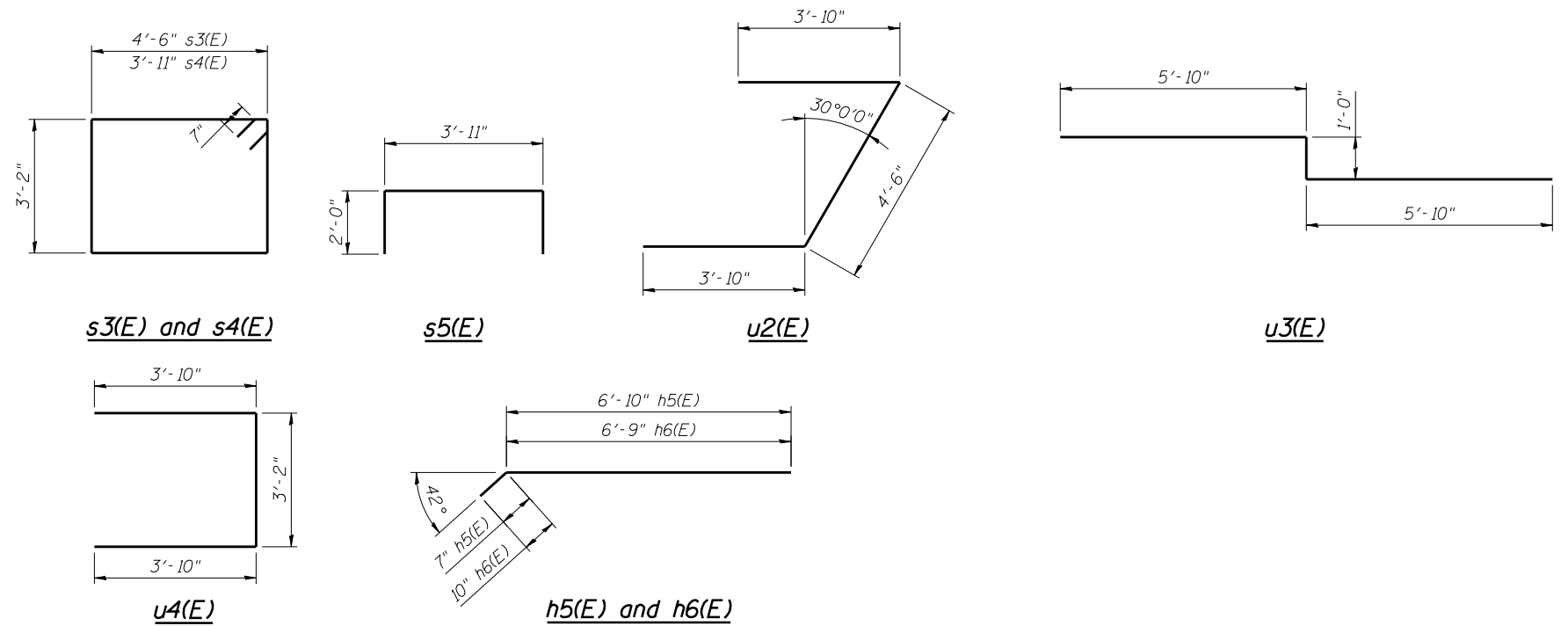
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	211
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



SECTION THRU EAST ABUT.



ANCHOR BOLT LAYOUT EAST ABUTMENT



Bar	"A"	"B"	"C"
v2(E)	9'-9"	12'-0"	21'-9"
v3(E)	7'-5"	12'-0"	19'-5"

FIELD CUTTING DIAGRAM

Order v2(E) and v3(E) full length.
Cut as shown and use remainder
of bars in opposite face.

EAST ABUTMENT EASTBOUND
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	7	#8	17'-6"	—
h2(E)	6	#5	13'-1"	—
h4(E)	16	#5	10'-9"	—
h5(E)	12	#5	13'-1"	—
h6(E)	16	#5	7'-1"	—
p(E)	16	#7	19'-6"	—
p1(E)	8	#5	17'-11"	—
p2(E)	4	#5	14'-9"	—
p3(E)	4	#7	25'-9"	—
p4(E)	8	#5	8'-0"	—
p5(E)	4	#5	21'-5"	—
p14(E)	8	#7	15'-10"	—
s3(E)	2	#5	16'-6"	□
s4(E)	55	#5	15'-4"	□
s5(E)	43	#5	7'-11"	┌
u2(E)	8	#6	12'-2"	└
u3(E)	4	#7	12'-8"	└
v1(E)	18	#5	10'-9"	—
v2(E)	11	#5	21'-9"	—
Concrete Structures		Cu. Yd.	40.4	
Reinforcement Bars, Epoxy Coated		Pound	4550	
Furnishing Steel Piles HP12x53		Foot	744	
Driving Piles		Foot	744	
Test Pile Steel HP12x53		Each	1	

EAST ABUTMENT WESTBOUND
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	7	#8	17'-6"	—
h2(E)	6	#5	13'-1"	—
h4(E)	16	#5	10'-9"	—
h5(E)	12	#5	7'-5"	—
h6(E)	12	#5	7'-7"	—
p2(E)	4	#5	14'-9"	—
p3(E)	4	#7	25'-9"	—
p4(E)	8	#5	8'-0"	—
p5(E)	4	#5	21'-5"	—
p6(E)	16	#7	20'-1"	—
p7(E)	8	#5	18'-6"	—
p14(E)	8	#7	15'-10"	—
s3(E)	2	#5	16'-6"	□
s4(E)	55	#5	15'-4"	□
s5(E)	43	#5	7'-11"	┌
u2(E)	8	#6	12'-2"	└
u3(E)	4	#7	12'-8"	└
u4(E)	5	#6	10'-10"	└
v1(E)	18	#5	10'-9"	—
v3(E)	11	#5	19'-5"	—
Concrete Structures		Cu. Yd.	40.0	
Reinforcement Bars, Epoxy Coated		Pound	4300	
Furnishing Steel Piles HP12x53		Foot	744	
Driving Piles		Foot	744	
Test Pile Steel HP12x53		Each	1	

For details of piles see sheet S-40 of S-51.

FILE NAME = 0820119-0120-76884-035-EastAbut-Detail.svdgn



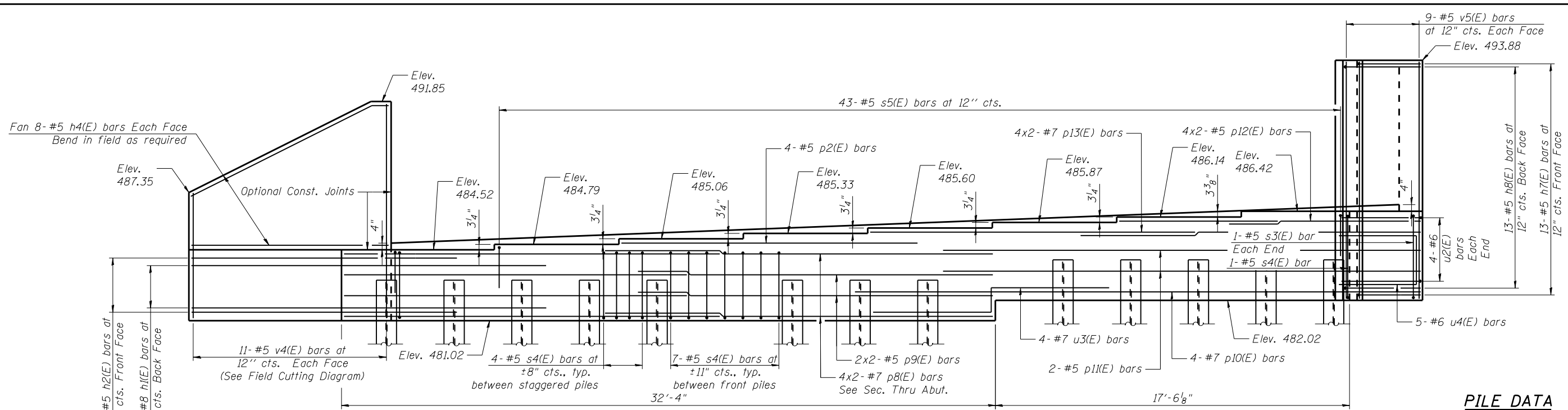
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PLOT DATE = 10/19/2011	DRAWN - MJK	REVISED - -
	CHECKED - SAB	REVISED - -

STATE OF ILLINOIS
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EAST ABUTMENT DETAILS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

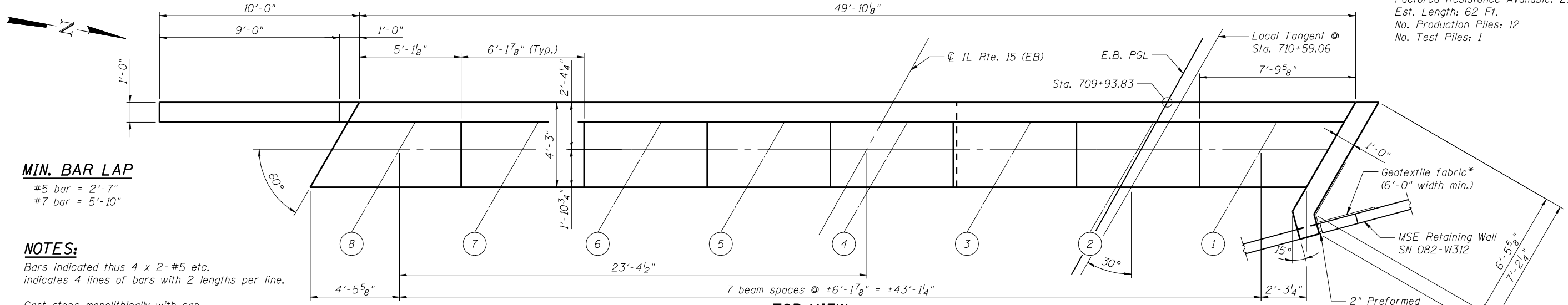
SHEET NO. S-35 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	212
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				



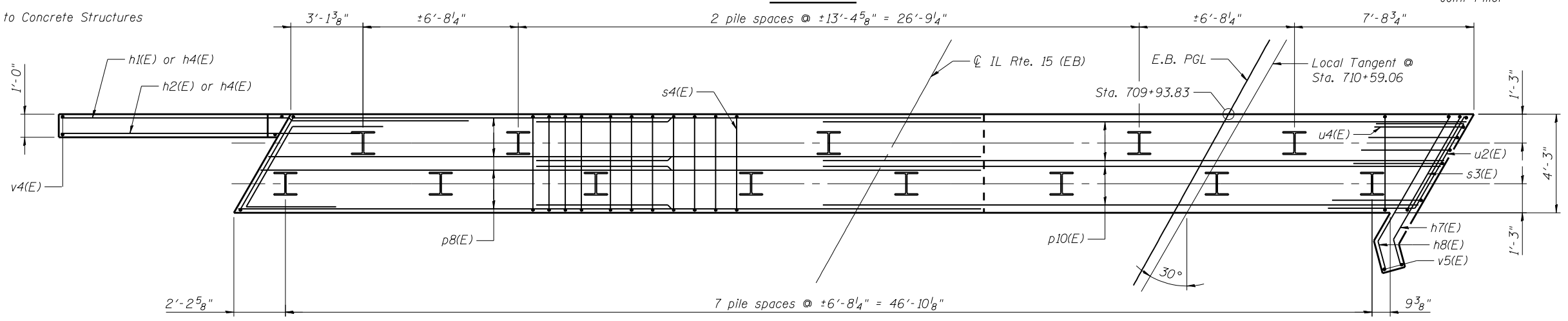
ELEVATION
(Looking West)
49'-10 1/8"

PILE DATA
Type: Steel HP 12 x 53
Nominal Required Bearing: 399 Kips
Factored Resistance Available: 219 Kips
Est. Length: 62 Ft.
No. Production Piles: 12
No. Test Piles: 1



MIN. BAR LAP
#5 bar = 2'-7"
#7 bar = 5'-10"

NOTES:
Bars indicated thus 4 x 2- #5 etc. indicates 4 lines of bars with 2 lengths per line.
Cast steps monolithically with cap.
*Item incidental to Concrete Structures



PILE PLAN

FILE NAME = 0820119-0120-76884-036-WestAbut.EB.dgn



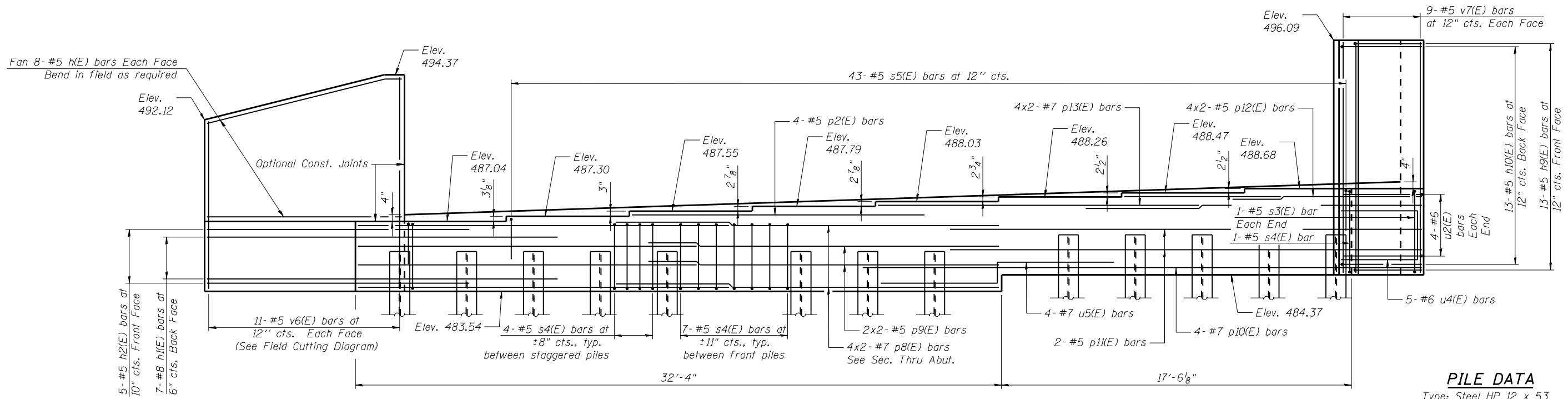
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PLOT SCALE = 5/4,000 1' = 1/4" IN.	DRAWN - MJK	REVISED -
PLOT DATE = 10/19/2011	CHECKED - SAB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT PLAN AND ELEVATION EASTBOUND
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

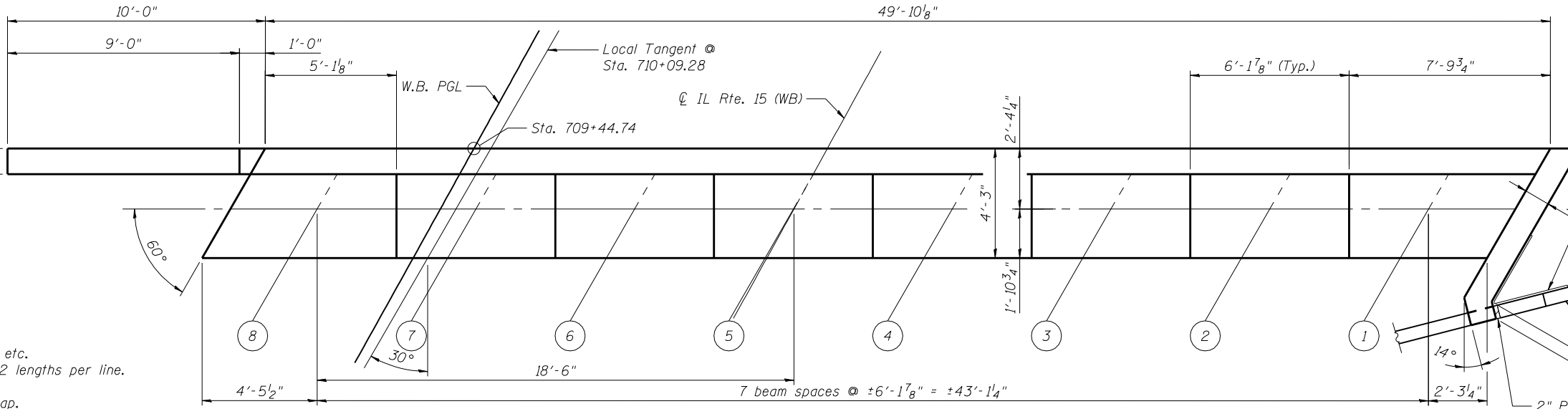
SHEET NO. S-36 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	213
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

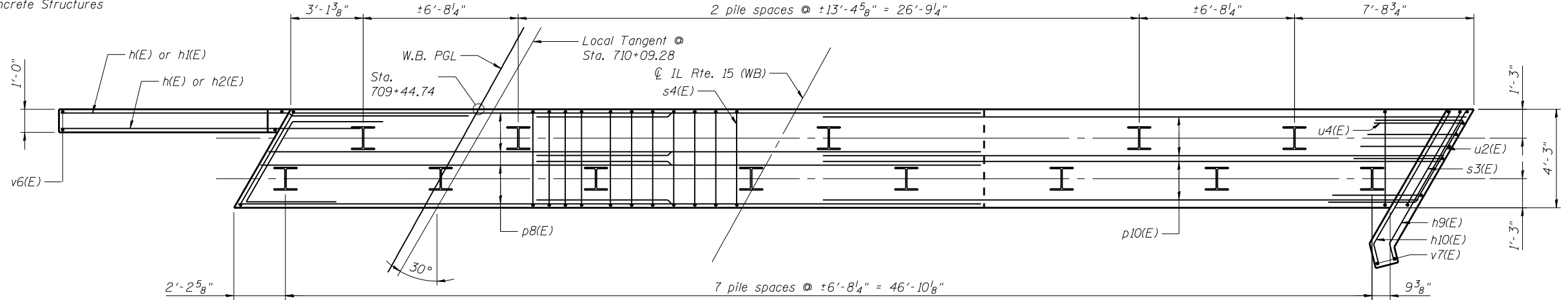


ELEVATION
(Looking West)

PILE DATA
 Type: Steel HP 12 x 53
 Nominal Required Bearing: 411 Kips
 Factored Resistance Available: 226 Kips
 Est. Length: 65 Ft.
 No. Production Piles: 12
 No. Test Piles: 1



TOP VIEW



PILE PLAN

MIN. BAR LAP

#5 bar = 2'-7"
 #7 bar = 5'-10"

NOTES:

Bars indicated thus 4 x 2-#5 etc.
 indicates 4 lines of bars with 2 lengths per line.
 Cast steps monolithically with cap.
 *Item incidental to Concrete Structures

FILE NAME = 0820119-0120-76884-037-WestAbut.WB.dgn



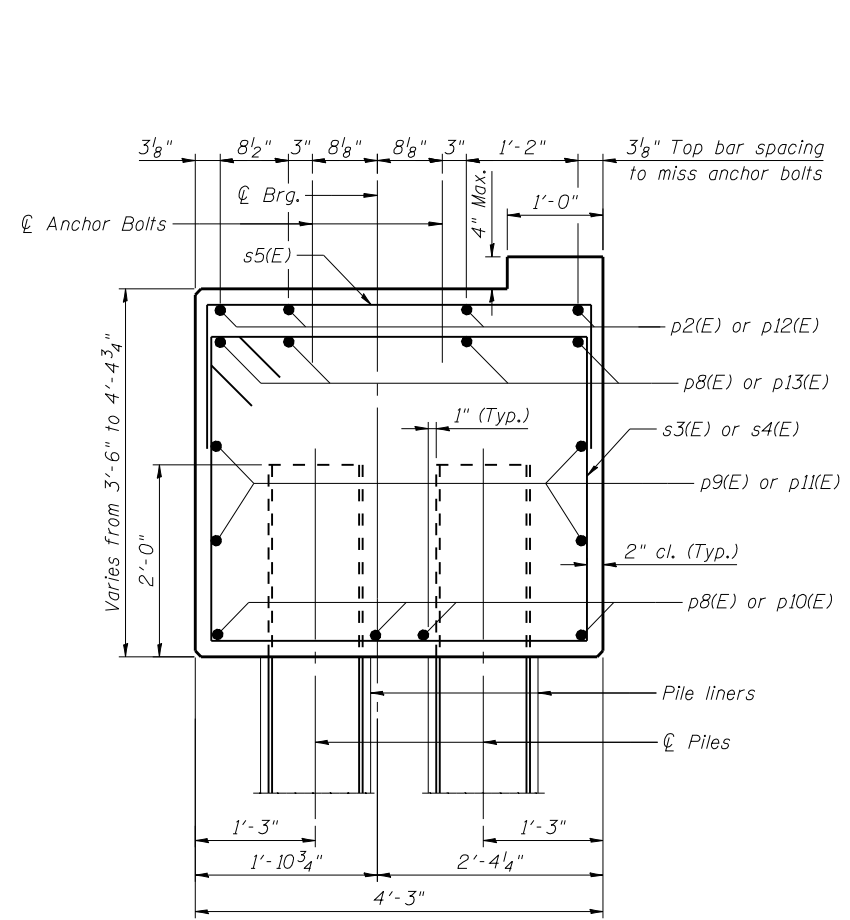
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

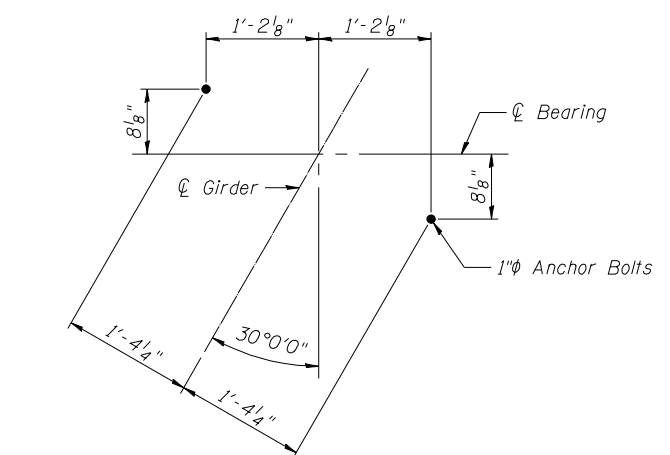
WEST ABUTMENT PLAN AND ELEVATION WESTBOUND
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-37 OF S-51 SHEETS

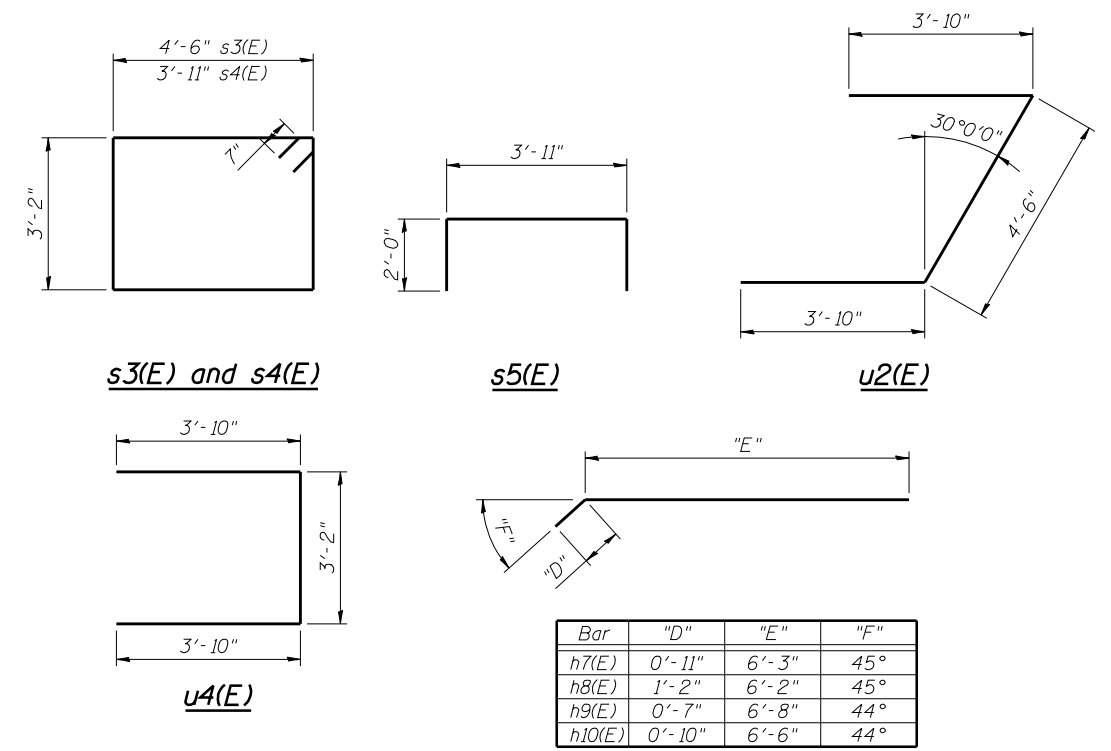
F.A.P. RTE. 103	SECTION 27-1-VHB-1	COUNTY ST. CLAIR	TOTAL SHEETS 277	SHEET NO. 214
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	



SECTION THRU WEST ABUT.



ANCHOR BOLT LAYOUT WEST ABUTMENT



h7(E), h8(E), h9(E) and h10(E)

WEST ABUTMENT EASTBOUND
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	7	#8	17'-6"	—
h2(E)	5	#5	13'-1"	—
h4(E)	16	#5	10'-9"	—
h7(E)	13	#5	7'-2"	—
h8(E)	13	#5	7'-4"	—
p2(E)	4	#5	14'-9"	—
p8(E)	16	#7	19'-0"	—
p9(E)	8	#5	17'-5"	—
p10(E)	4	#7	26'-10"	—
p11(E)	4	#5	23'-7"	—
p12(E)	8	#5	8'-9"	—
p13(E)	8	#7	16'-6"	—
s3(E)	2	#5	16'-6"	□
s4(E)	55	#5	15'-4"	□
s5(E)	43	#5	7'-11"	┌
u2(E)	8	#6	12'-2"	└
u3(E)	4	#7	12'-8"	└
u4(E)	5	#6	10'-10"	└
v4(E)	11	#5	16'-7"	—
v5(E)	18	#5	11'-6"	—
Concrete Structures			Cu. Yd.	39.1
Reinforcement Bars, Epoxy Coated			Pound	4270
Furnishing Steel Piles HP12x53			Foot	744
Driving Piles			Foot	744
Test Pile Steel HP12x53			Each	1

WEST ABUTMENT WESTBOUND
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#5	10'-0"	—
h1(E)	7	#8	17'-6"	—
h2(E)	5	#5	13'-1"	—
h9(E)	13	#5	7'-3"	—
h10(E)	13	#5	7'-4"	—
p2(E)	4	#5	14'-9"	—
p8(E)	16	#7	19'-0"	—
p9(E)	8	#5	17'-5"	—
p10(E)	4	#7	26'-10"	—
p11(E)	4	#5	23'-7"	—
p12(E)	8	#5	8'-9"	—
p13(E)	8	#7	16'-6"	—
s3(E)	2	#5	16'-6"	□
s4(E)	55	#5	15'-4"	□
s5(E)	43	#5	7'-11"	┌
u2(E)	8	#6	12'-2"	└
u4(E)	5	#6	10'-10"	└
u5(E)	4	#7	12'-6"	└
v6(E)	11	#5	18'-9"	—
v7(E)	18	#5	11'-5"	—
Concrete Structures			Cu. Yd.	39.2
Reinforcement Bars, Epoxy Coated			Pound	4280
Furnishing Steel Piles HP12x53			Foot	780
Driving Piles			Foot	780
Test Pile Steel HP12x53			Each	1

For details of piles see sheet S-40 of S-51.

Bar	"A"	"B"	"C"
v4(E)	6'-0"	10'-7"	16'-7"
v6(E)	8'-3"	10'-6"	18'-9"

FIELD CUTTING DIAGRAM

Order v4(E) and v6(E) full length.
Cut as shown and use remainder of bars in opposite face.

FILE NAME = 0820119-0120-76884-038-WestAbut-Details.dgn



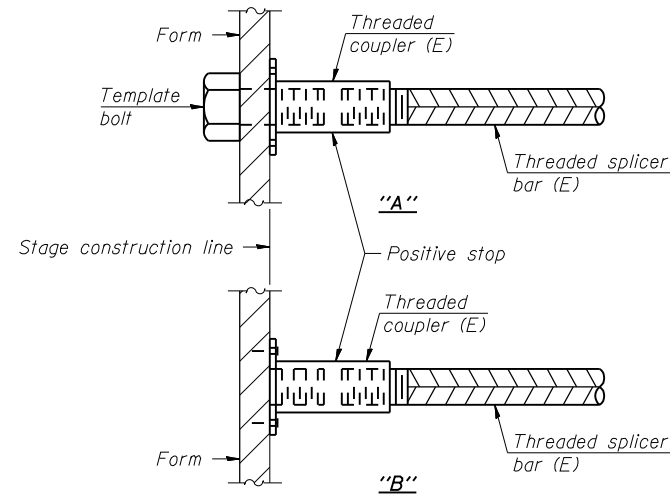
USER NAME = brazzera	DESIGNED - MJK	REVISED - -
PLOT SCALE = 2x.0000 '1' / IN.	CHECKED - SAB	REVISED - -
PLOT DATE = 10/19/2011	DRAWN - MJK	REVISED - -
	CHECKED - SAB	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-38 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	215
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

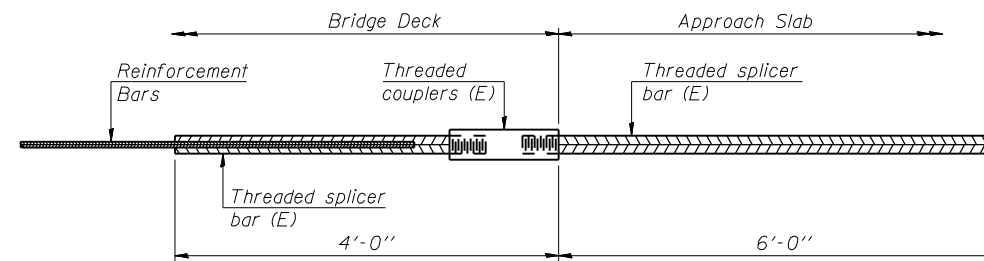


INSTALLATION AND SETTING METHODS

"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.

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 approved list of bar splicer assemblies and mechanical splicers for alternatives.



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

No. required = 180

FILE NAME = 0820119-0120-76884-039-BarSplicer.dgn



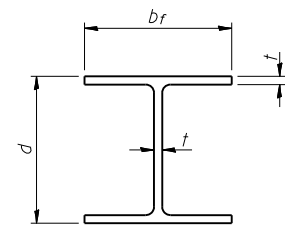
USER NAME = brozzano	DESIGNED - MJK	REVISED - -
	CHECKED - JAN	REVISED - -
PLOT SCALE = 0x2.0000 '1' / IN.	DRAWN - MJK	REVISED - -
PLOT DATE = 10/19/2011	CHECKED - JAN	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

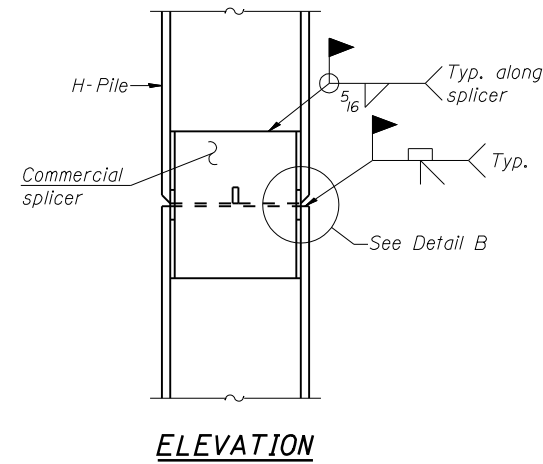
SHEET NO. S-39 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	216
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

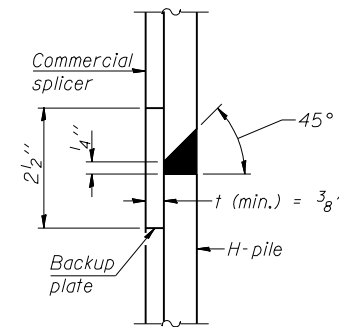


STEEL PILE TABLE

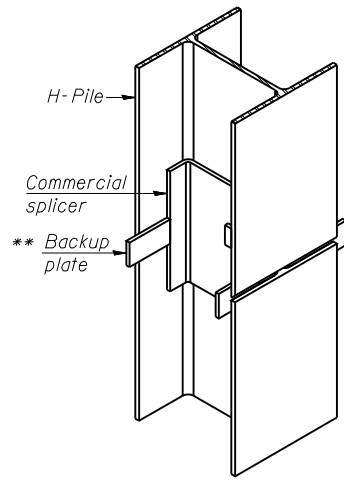
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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

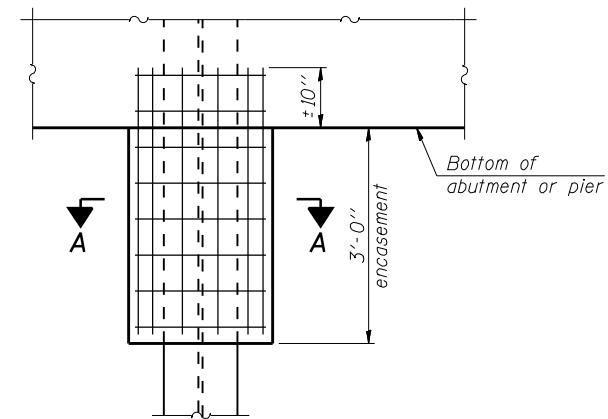


DETAIL "B"



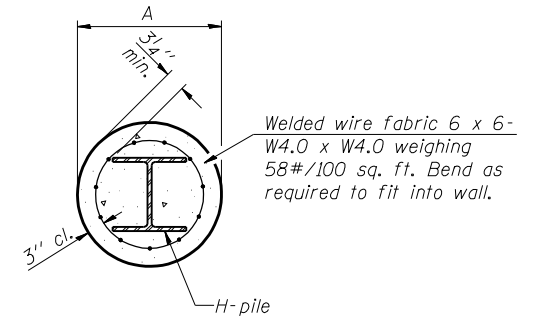
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



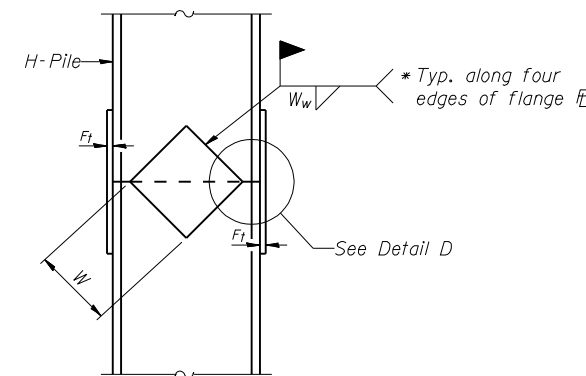
ELEVATION

PILE ENCASEMENT

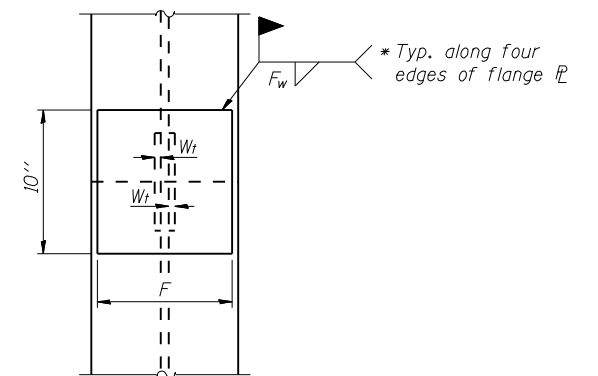


SECTION A-A

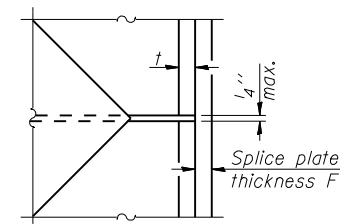
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



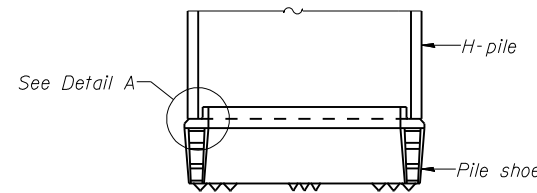
END VIEW



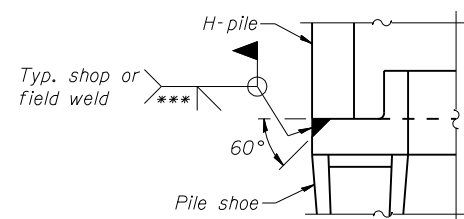
DETAIL D

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"

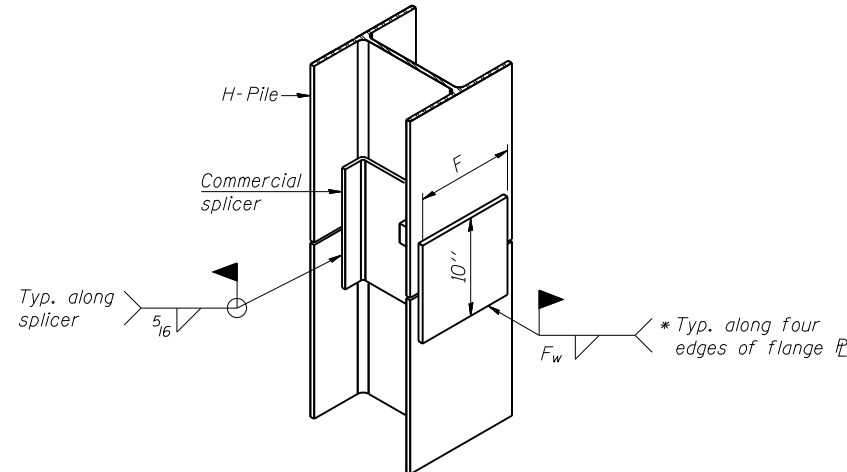


ELEVATION



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.).

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

F-HP

7-1-10



USER NAME = brazzano	DESIGNED - MJK	REVISD - -
PLOT SCALE = 0x2.0000 '1' / IN.	CHECKED - JAN	REVISD - -
PLOT DATE = 10/19/2011	DRAWN - MJK	REVISD - -
	CHECKED - JAN	REVISD - -

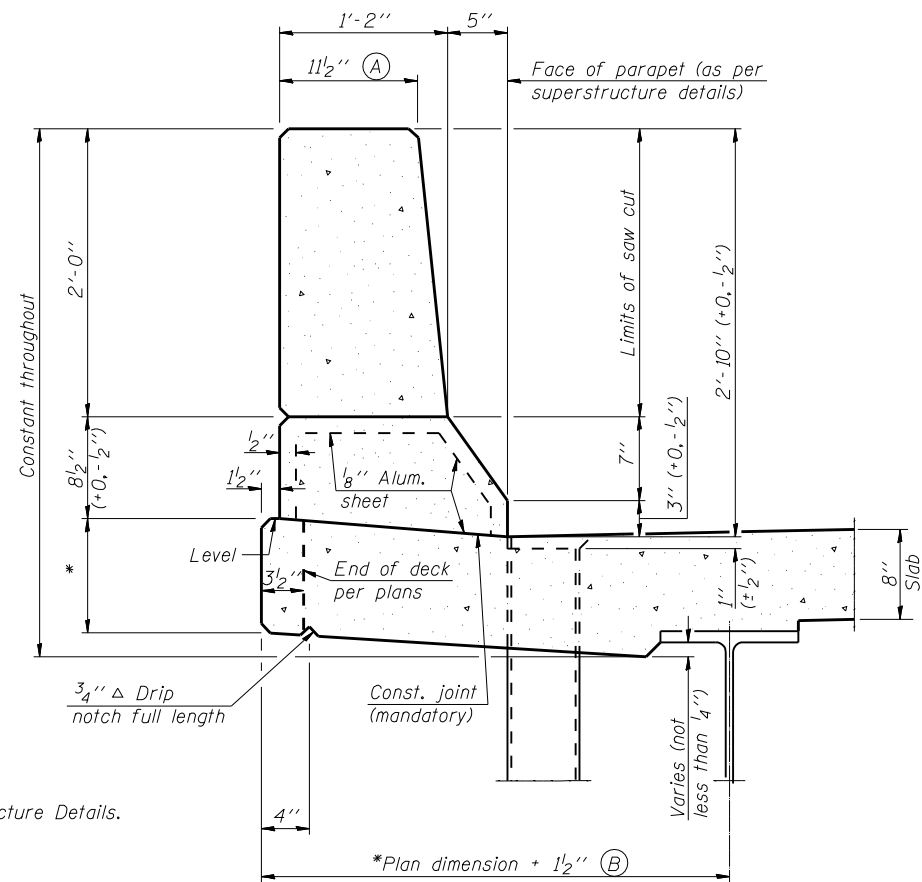
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

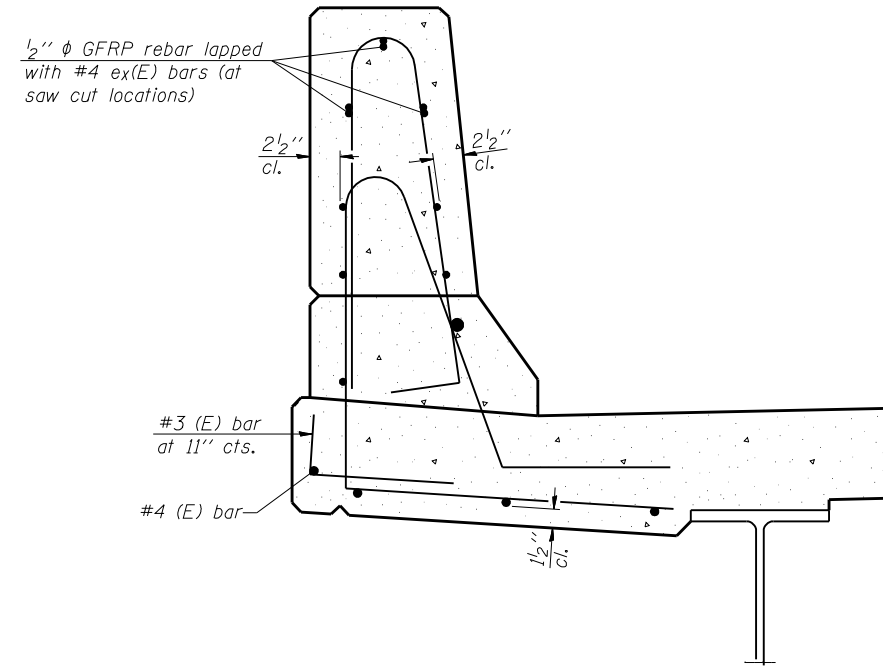
SHEET NO. S-40 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	217
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

FILE NAME = 0820119-0120-76884-040-F1eDetails.dgn

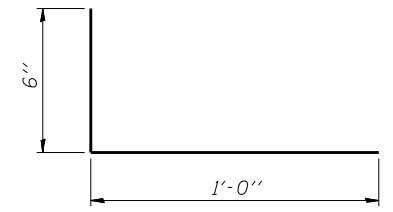


SECTION
(Showing dimensions)

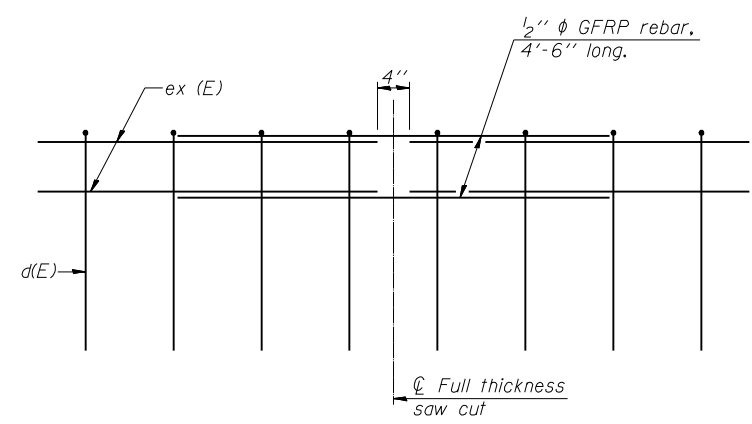


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES
 All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. of parapet.
 Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.
 Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

SFP-34

7-1-10

FILE NAME = 0820119-0120-76884-041-Parape-Slipforming.dgn



USER NAME = brazzara	DESIGNED - MJK	REVISED -
	CHECKED - JAN	REVISED -
PLOT SCALE = 2x0.0000 '1' / IN.	DRAWN - MJK	REVISED -
PLOT DATE = 10/19/2011	CHECKED - JAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-41 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	218
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 2

Date 6/14/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)
082-0051/0052 (existing)		SB-1	703+65	53.1 ft L1	469.00					Surface Water Elev. _____ ft				
										Stream Bed Elev. _____ ft				
										Groundwater Elev.: First Encounter 455.5 ft				
										Upon Completion _____ ft				
										After _____ Hrs. _____ ft				
TOPSOIL - 12 inches														
FILL: Dark brown to black cinders														
FILL: Brown, silty clay (A-7)														
FILL: Gray, clay (A-7)														
CLAY: Gray (A-7)														
SILTY CLAY: Grayish brown (A-7)														
SILTY CLAY: Grayish brown (A-6)														
SILTY CLAY: Brown (A-7)														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 6/14/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)
082-0051/0052 (existing)		SB-1	703+65	53.1 ft L1	469.00					Surface Water Elev. _____ ft				
										Stream Bed Elev. _____ ft				
										Groundwater Elev.: First Encounter 455.5 ft				
										Upon Completion _____ ft				
										After _____ Hrs. _____ ft				
CLAY: Brown and gray, some sand, trace gravel (A-7) (continued)														
No sand and gravel														
Becomes bluish gray and greenish gray														
SHALEY CLAY: Bluish gray and greenish gray (A-7)														
CLAYEY SHALE: Tan, trace limestone rock														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

Date 6/15/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)
082-0051/0052 (existing)		SB-2	704+62	13.5 ft L1	464.97					Surface Water Elev. _____ ft				
										Stream Bed Elev. _____ ft				
										Groundwater Elev.: First Encounter 451.5 ft				
										Upon Completion _____ ft				
										After _____ Hrs. _____ ft				
CRUSHED ROCK - 12 inches														
FILL: Brown, clay, with some crushed rock (A-7)														
Some sand and trace coal														
Some cinders														
FILL: Grayish brown, silty clay (A-6)														
SILTY CLAY: Grayish brown and brown (A-6)														
CLAYEY SILT: Gray and brown (A-4)														
SILTY CLAY: Gray (A-6)														
CLAY: Gray and brown (A-7)														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 0820119-0120-76884-042-Bor-nlg-logs.dgn



USER NAME = brazzera
 PLOT SCALE = 2:0.0000 '1" / IN.
 PLOT DATE = 10/19/2011

DESIGNED - MJK
 CHECKED - JAN
 DRAWN - MJK
 CHECKED - JAN

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-42 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	219
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 6/15/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, S, T).

Main soil log table with columns for depth (ft), soil description, and soil properties (D, B, U, M, S, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/11/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, S, T).

Main soil log table with columns for depth (ft), soil description, and soil properties (D, B, U, M, S, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/11/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, S, T).

Main soil log table with columns for depth (ft), soil description, and soil properties (D, B, U, M, S, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 0820119-0120-76884-043-Bor-Log.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, and their respective values.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-43 OF S-51 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



SOIL BORING LOG

Date 6/9/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA & Mud Rotary HAMMER TYPE Automatic

Table with columns for DEPTH, BULGE, S-SHEAR, P-PENETROMETER, and SOIL DESCRIPTION. Includes data for SURFACE WATER ELEV., STREAM BED ELEV., GROUNDWATER ELEV., and BORING NO. SB-8.

Main soil log table with columns for ELEVATION (ft), SOIL TYPE, and PENETROMETER VALUES (B, S, P). Soil types include TOPSOIL, CLAYEY SILT, SILTY CLAY, CLAY, SANDY SILT, and WEATHERED LIMESTONE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/9/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA & Mud Rotary HAMMER TYPE Automatic

Table with columns for DEPTH, BULGE, S-SHEAR, P-PENETROMETER, and SOIL DESCRIPTION. Includes data for SURFACE WATER ELEV., STREAM BED ELEV., GROUNDWATER ELEV., and BORING NO. SB-8.

Main soil log table with columns for ELEVATION (ft), SOIL TYPE, and PENETROMETER VALUES (B, S, P). Soil types include ORGANIC SILT, CLAYEY SILT, SANDY CLAY, SANDY SILT, and WEATHERED LIMESTONE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/10/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

Table with columns for DEPTH, BULGE, S-SHEAR, P-PENETROMETER, and SOIL DESCRIPTION. Includes data for SURFACE WATER ELEV., STREAM BED ELEV., GROUNDWATER ELEV., and BORING NO. SB-9.

Main soil log table with columns for ELEVATION (ft), SOIL TYPE, and PENETROMETER VALUES (B, S, P). Soil types include TOPSOIL, CLAY, SANDY CLAY, CLAYEY SAND, CLAY, SILTY CLAY, and WEATHERED LIMESTONE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 0820119-0120-76884-046-Bor-nc-log.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, REVISIONS, and DRAWN.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-46 OF S-51 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., and ILLINOIS FED. AID PROJECT.



SOIL BORING LOG

Page 2 of 2

Date 6/10/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 (existing) Station 710+78 BORING NO. SB-9 Station 710+78 Offset 13.0 ft LI Ground Surface Elev. 468.76 ft

Table with columns for Depth (ft), Blows (B), Penetration (P), Unconfined Compressive Strength (UCS), Moisture Content (M), and Soil Description. Includes soil types like SILTY CLAY, SILTY SAND, and WEATHERED LIMESTONE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2

Date 5/19/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 Station 710+71.52 BORING NO. SB-10 Station 710+71.52 Offset 1.1 ft RT Ground Surface Elev. 464.77 ft

Table with columns for Depth (ft), Blows (B), Penetration (P), Unconfined Compressive Strength (UCS), Moisture Content (M), and Soil Description. Includes soil types like TOPSOIL, CLAYEY SILT, CLAY, and SILTY CLAY.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

Date 5/19/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 Station 710+71.52 BORING NO. SB-10 Station 710+71.52 Offset 1.1 ft RT Ground Surface Elev. 464.77 ft

Table with columns for Depth (ft), Blows (B), Penetration (P), Unconfined Compressive Strength (UCS), Moisture Content (M), and Soil Description. Includes soil types like CLAYEY SILT, CLAY, and WEATHERED LIMESTONE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 082011a-0120-76884-047-Bor-rgl-logs.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, and CHECKED.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-47 OF S-51 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



SOIL BORING LOG

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 Station 709+76.68 BORING NO. SB-11 Station 709+76.68 Offset 59.1 ft RT Ground Surface Elev. 465.03 ft

Table with columns for Depth (ft), Blows (6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes entries for SILTY SAND, SANDY CLAY, CLAYEY SILT, and CLAY.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 Station 709+76.68 BORING NO. SB-11 Station 709+76.68 Offset 59.1 ft RT Ground Surface Elev. 465.03 ft

Table with columns for Depth (ft), Blows (6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes entries for SILTY CLAY and CLAY.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 Station 708+77.39 BORING NO. SB-12 Station 708+77.39 Offset 1.6 ft LT Ground Surface Elev. 465.95 ft

Table with columns for Depth (ft), Blows (6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes entries for SILTY CLAY, SANDY CLAY, and SILT.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 0820119-0120-76884-048-Bor-rg-log.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, and CHECKED.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-48 OF S-51 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



SOIL BORING LOG

Date 5/18/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG
SECTION 27-1-VHB-1 LOCATION Belleville, Illinois
COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

Table with columns for Depth (ft), Blows (ft/6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes data for layers like CLAYEY SILT, CLAY, and CLAYEY SHALE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/17/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG
SECTION 27-1-VHB-1 LOCATION Belleville, Illinois
COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

Table with columns for Depth (ft), Blows (ft/6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes data for layers like CLAYEY SILT, CLAY, and CLAYEY SHALE.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/17/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG
SECTION 27-1-VHB-1 LOCATION Belleville, Illinois
COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

Table with columns for Depth (ft), Blows (ft/6"), Unconfined Compressive Strength (tsf), Moisture Content (%), and Soil Description. Includes data for layers like CLAY, SANDY CLAY, and SILTY CLAY.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

FILE NAME = 082011r-0120-76884-049-Bor-rg-Log.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, and CHECKED.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

SHEET NO. S-49 OF S-51 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., and ILLINOIS FED. AID PROJECT.



SOIL BORING LOG

Date 5/17/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052
 Station _____
 BORING NO. SB-13
 Station 703+42.56
 Offset 0.3 ft RT
 Ground Surface Elev. 492.07 ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	M-O-I-S-T (%)	DESCRIPTION
0				CLAY: Gray and brown (A-7) (continued) Becomes brown, trace gravel
9				
14			30	CLAYEY SHALE
14				
21				End of Boring
41			20	
50/1				
-90				
-95				
-100				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/16/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052
 Station _____
 BORING NO. SB-14
 Station 700+04.74
 Offset 47.7 ft LT
 Ground Surface Elev. 487.74 ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	M-O-I-S-T (%)	DESCRIPTION
0				ASPHALT - 8 inches
3		1.7	21	SILTY CLAY: Gray (A-6)
5		S		
4				SILTY CLAY: Gray (A-6 (17))
4		3.3	19	
5		S		
2				CLAY: Bluish gray (A-7)
4		2.1	21	
7		S		
3				SILTY CLAY: Dark gray (A-6)
3		3.3	21	
5		S		
-10				End of Boring
-15				
-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/16/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052
 Station _____
 BORING NO. SB-15
 Station 678+61.43
 Offset 0.6 ft LT
 Ground Surface Elev. 469.37 ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	M-O-I-S-T (%)	DESCRIPTION
2		4.5	17	SILT: Brown (A-4)
6		S		
7				
3		3.0	23	SILTY CLAY: Dark gray (A-6)
5		S		
4				SILTY CLAY: Gray (A-6 (15))
5		1.1	22	
4		S		
2				CLAY: Dark gray (A-7)
2		1.0	26	
2		S		
-10				End of Boring
-15				
-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 0820119-0120-76884-050-Bor-rgl-logs.dgn



USER NAME = brozzano	DESIGNED - MJK	REVISED - -
PLOT SCALE = 2x0.0000 '1' / IN.	CHECKED - JAN	REVISED - -
PLOT DATE = 10/19/2011	DRAWN - MJK	REVISED - -
	CHECKED - JAN	REVISED - -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)**

SHEET NO. S-50 OF S-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	227
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Date 5/16/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG
 SECTION 27-1-VHB-1 LOCATION Belleville, Illinois
 COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	DESCRIPTION	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)	REMARKS
082-0051/0052	ASPHALT - 2 inches	479.9				
	OIL & CHIP - 4 inches	479.8				
	CRUSHED ROCK - 2 inches	479.4	1			
	SILT: Gray (A-4)	477.6	4	2.2	22	
	SILTY CLAY: Gray (A-7-6 (29))		6			
			3			
			5	2.2	23	
			5			
	SILTY CLAY: Gray (A-6)	475.1	3			
			6	2.4	21	
			5			
	SILTY CLAY: Gray (A-6)	472.6	2			
			4	2.6	21	
			5			
	End of Boring	470.1				
		-10				
		-15				
		-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 5/16/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG
 SECTION 27-1-VHB-1 LOCATION Belleville, Illinois
 COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	DESCRIPTION	DEPTH (ft)	BULGE (ft)	UCS (tsf)	MOISTURE (%)	REMARKS
082-0051/0052	TOPSOIL - 2 inches	465.0				
	SILT: Brown (A-4)		3			
			7		17	
			7			
	SILTY CLAY: Brown and gray (A-6)	462.6				
			3			
			5	1.9	21	
			7			
	SILT: Dark gray (A-4 (8))	460.1	4			
			5	3.8	21	
			9			
	SILTY CLAY: Dark gray (A-6)	457.6				
			4			
			3	1.2	27	
			4			
	End of Boring	455.1				
		-10				
		-15				
		-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

FILE NAME = 0820119-0120-76884-051-BoringLog.dgn



USER NAME = <u>brozzano</u>	DESIGNED - <u>MJK</u>	REVISED - <u>-</u>
PLOT SCALE = <u>2:0.0000 ' = 1" / IN.</u>	CHECKED - <u>JAN</u>	REVISED - <u>-</u>
PLOT DATE = <u>10/19/2011</u>	DRAWN - <u>MJK</u>	REVISED - <u>-</u>
	CHECKED - <u>JAN</u>	REVISED - <u>-</u>

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)

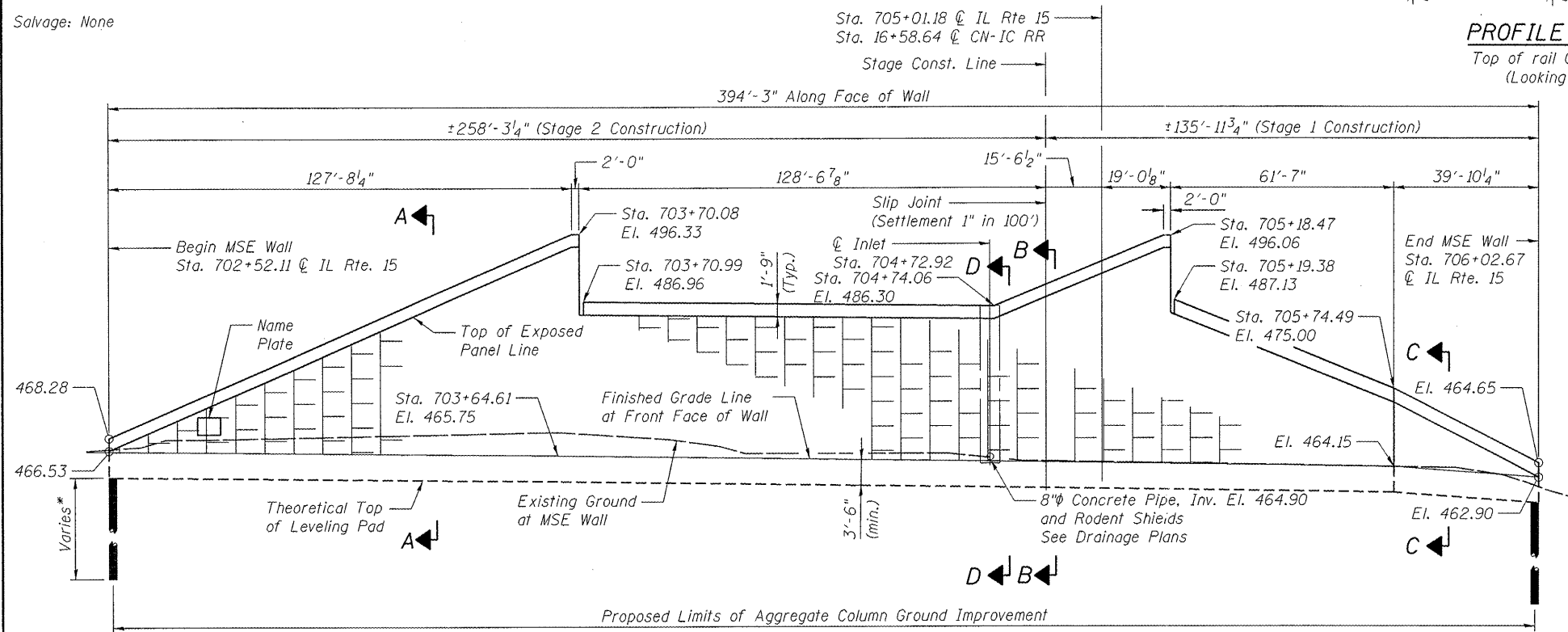
SHEET NO. 5-51 OF 5-51 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	228
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				

BENCHMARK: Existing chiseled square on south end of northwest wingwall on Structure No. 082-0051, El. 493.11.

EXISTING STRUCTURE: Structure numbers 082-0051 and 082-0052 were constructed in 1956. These structures consist of dual 8 span built-up steel girder spans; one three-span continuous, one simple span and two, two-span continuous. The riveted girders are supported on pile supported abutments and piers. The overall length of SN 082-0051 (Westbound) is 808 feet and SN 082-0052 (Eastbound) is 746 feet. Each structure is 35'-8" out-to-out of deck, with 30 feet of roadway width. Both structures were rehabilitated in 1985. Traffic will be maintained on SN 082-0051 while the new eastbound structures are constructed. Traffic will then be moved to the new eastbound structures until the westbound structures are complete.

Salvage: None



STATION 702+52.11
BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 103 SEC. 27-1-VHB-1
STRUCTURE NO. 082-W311

NAME PLATE
See Std. 515001

- Notes:
- For Sections A-A, B-B & C-C, see Sheet 2. For Section D-D, see Sheet 3.
 - Offsets are measured from the ϕ FAP 103 to the front face of the wall.

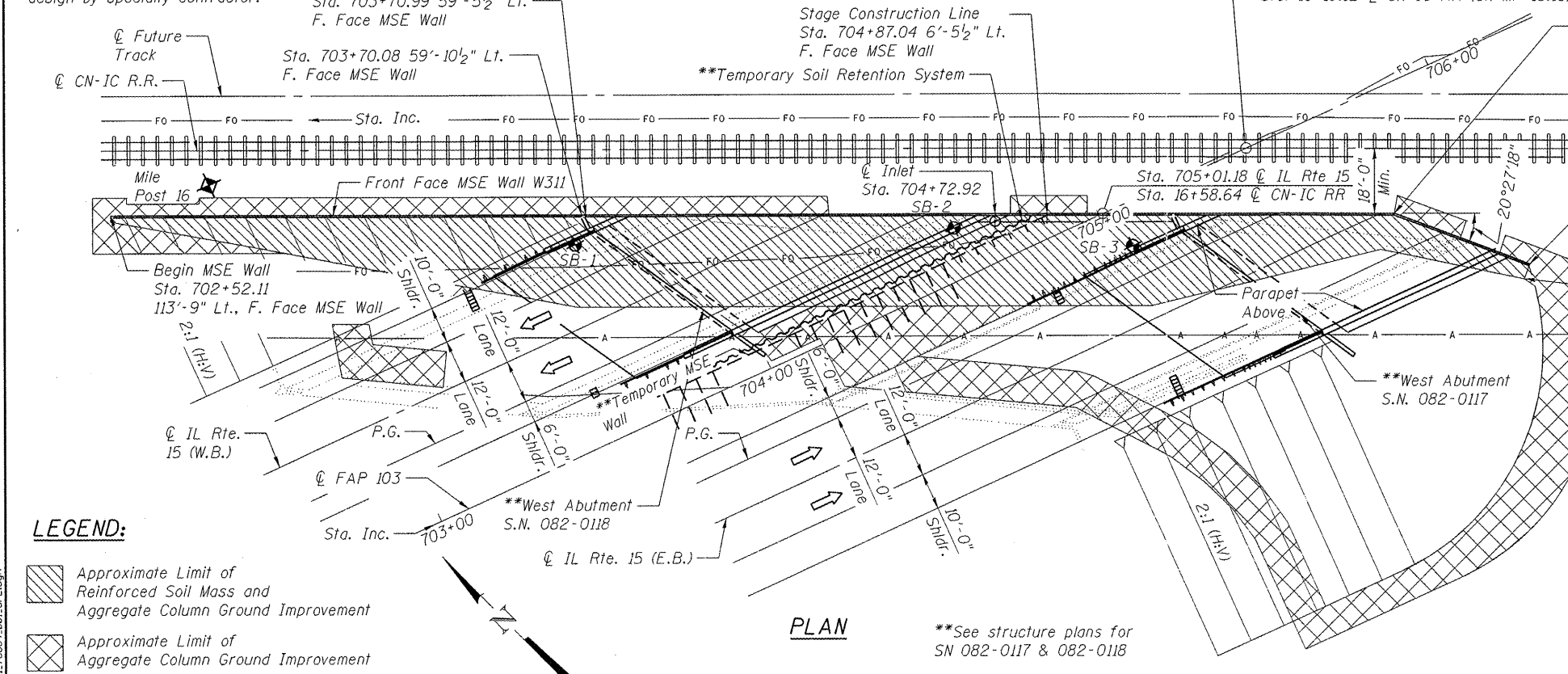
INDEX OF SHEETS

- General Plan
- Typical Sections & Bill of Material
- Sections at Inlet
- Boring Logs 1
- Boring Logs 2

NOTES ON GROUND IMPROVEMENT:

- Install anywhere with 10 feet or more of new fill.
- Extend 5 feet beyond toes of fill slopes taller than 10 feet.
- Extend 5 feet in front of face of MSE walls, except within 5 feet of existing deep foundations.
- Ground improvement elements need to be maintained a minimum of 3 feet away from any new pile locations.

ELEVATION (REFLECTED VIEW)



APPROVED
For Structural Adequacy Only
De Carl Perry
Engineer of Bridges & Structures

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
081-005152
12-8-11
November 30, 2012
Expires

DESIGN SPECIFICATIONS

2002 AASHTO Std. Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
PRECAST CONCRETE UNITS
f'c = 4,500 psi (Panels)

GENERAL PLAN
ILLINOIS ROUTE 15 OVER CN-IC RR
FAP 103 - SEC. 27-1-VHB-1
ST. CLAIR COUNTY
STA. 702+52.11 TO STA. 706+02.67
STRUCTURE NO. 082-W311

LEGEND:

- Approximate Limit of Reinforced Soil Mass and Aggregate Column Ground Improvement
- Approximate Limit of Aggregate Column Ground Improvement

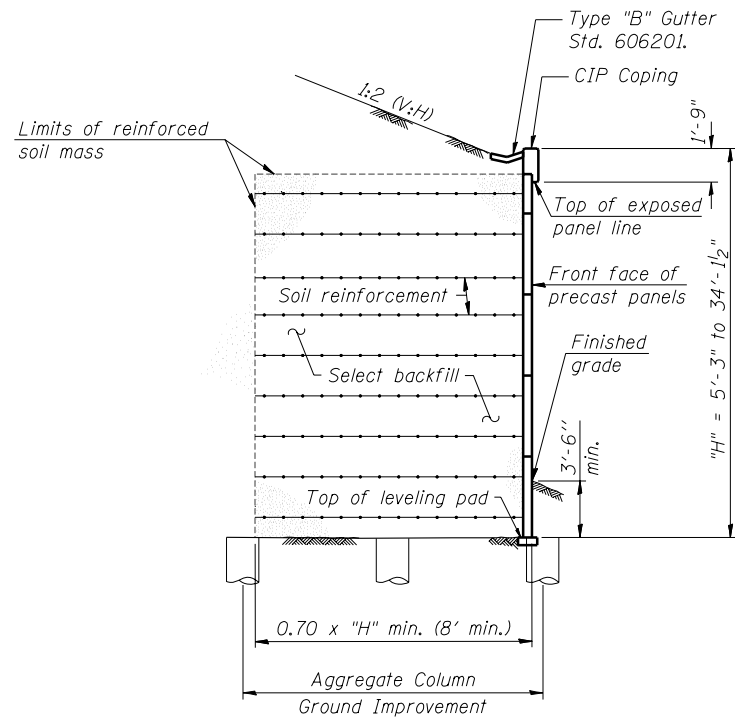
ZROKA
engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = Scott Whitney	DESIGNED - PMM	REVISIONS -
PLOT SCALE = 428.0000 1" = 100'	CHECKED - DAZ	REVISIONS -
PLOT DATE = 12/7/2011	DRAWN - SAW	REVISIONS -
	CHECKED - PMM	REVISIONS -

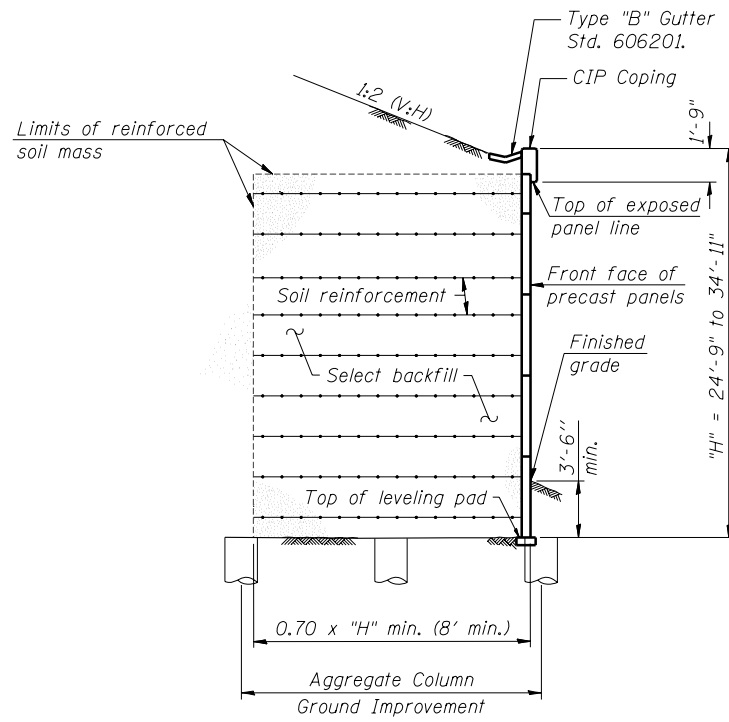
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 082-W311
SHEET NO. 1 OF 5 SHEETS

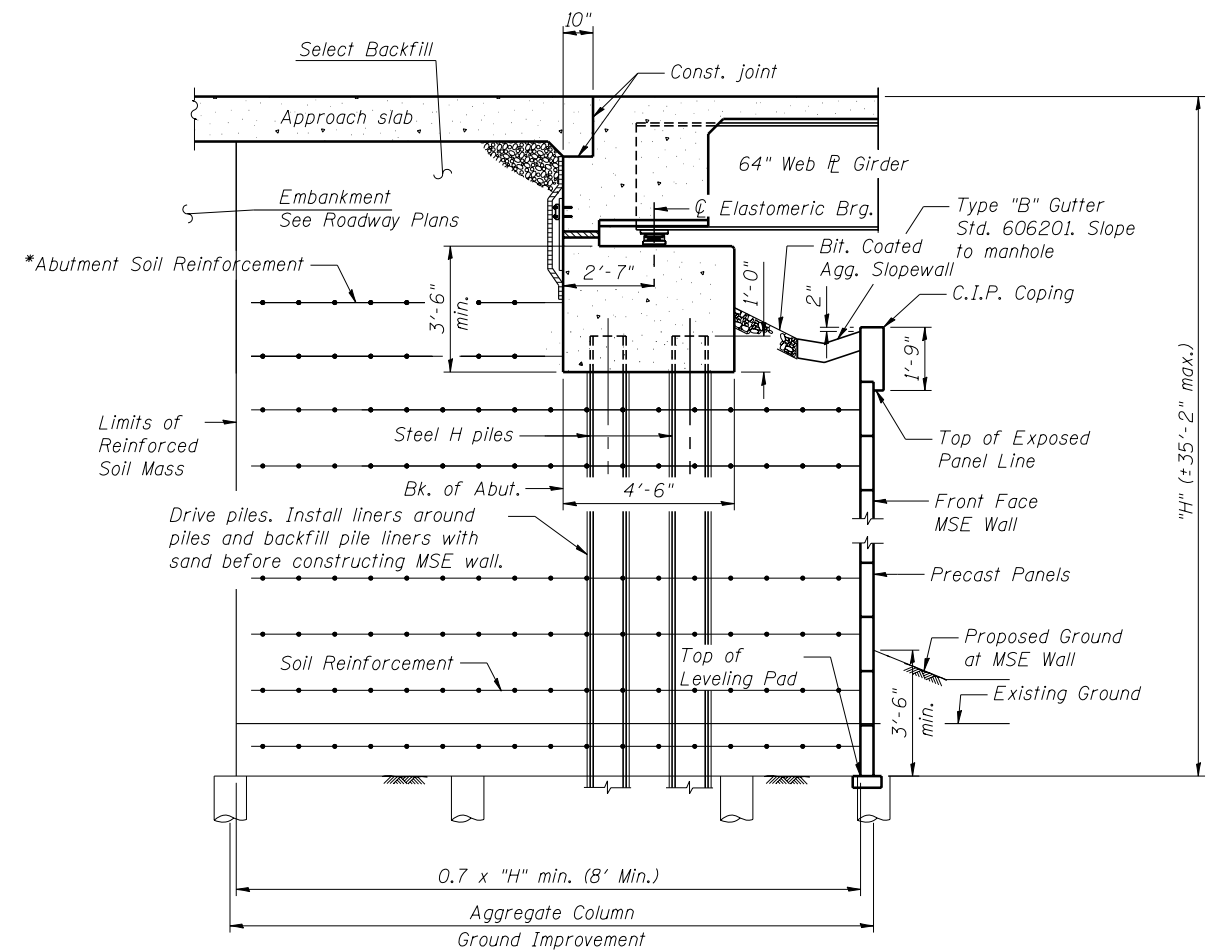
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	229
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



SECTION A-A
Sta. 702+52.11 to 703+70.08



SECTION B-B
Between Bridges



*M.S.E. wall supplier shall design and supply abutment soil reinforcement to resist earth pressure of 40 pct equivalent fluid weight applied to back of the abutment cap plus a longitudinal force of 0.7 kips per foot of abutment length transmitted by the bearings to the bridge seats.

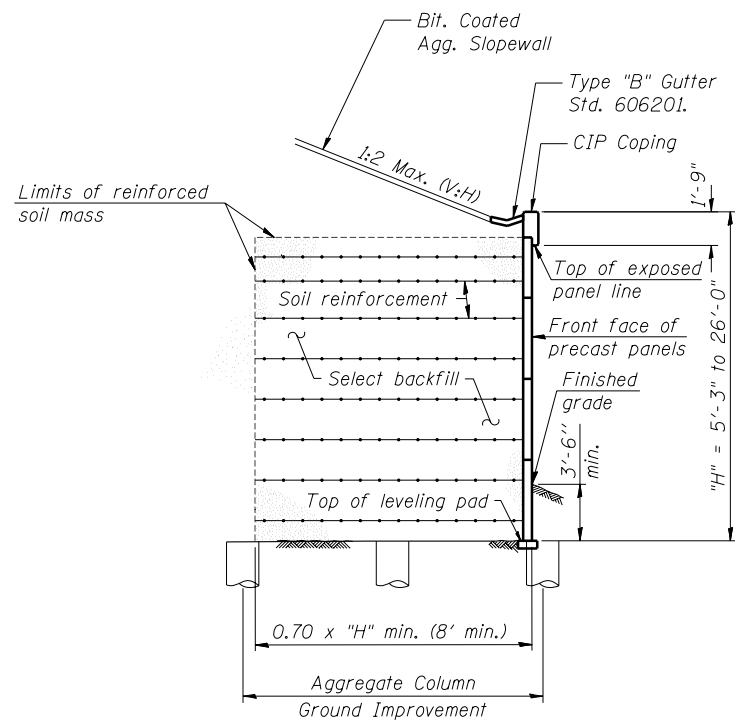
SECTION THRU MSE WALL AT SEMI-INTEGRAL WEST ABUTMENT
(Horiz. dim. @ Rt. L's)

TOTAL BILL OF MATERIAL

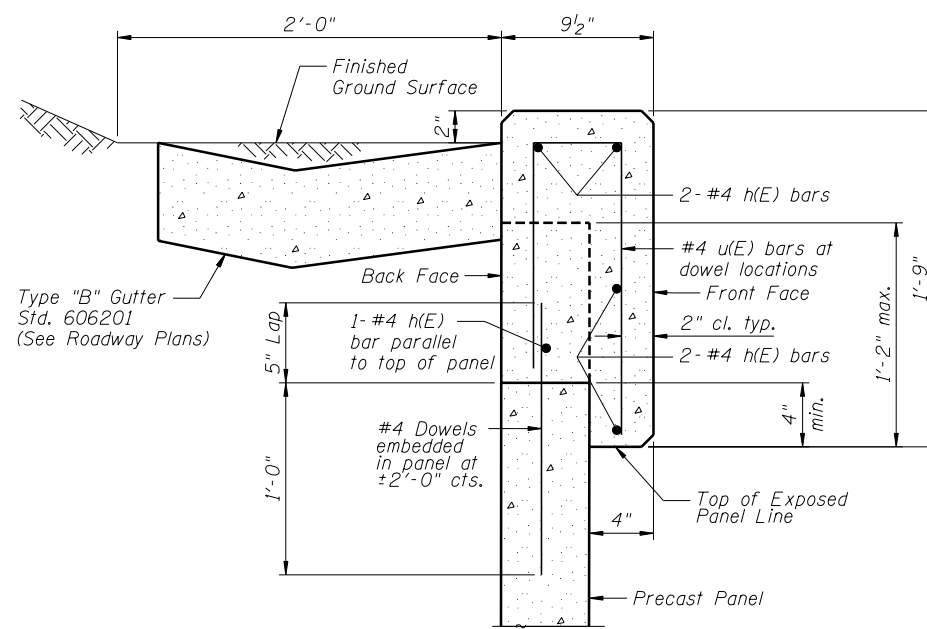
ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	2,068
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	7,835

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Cast in place concrete and reinforcement bars for coping is included in the cost for Mechanically Stabilized Earth Retaining Wall.



SECTION C-C
Sta. 705+19.38 to 706+02.67

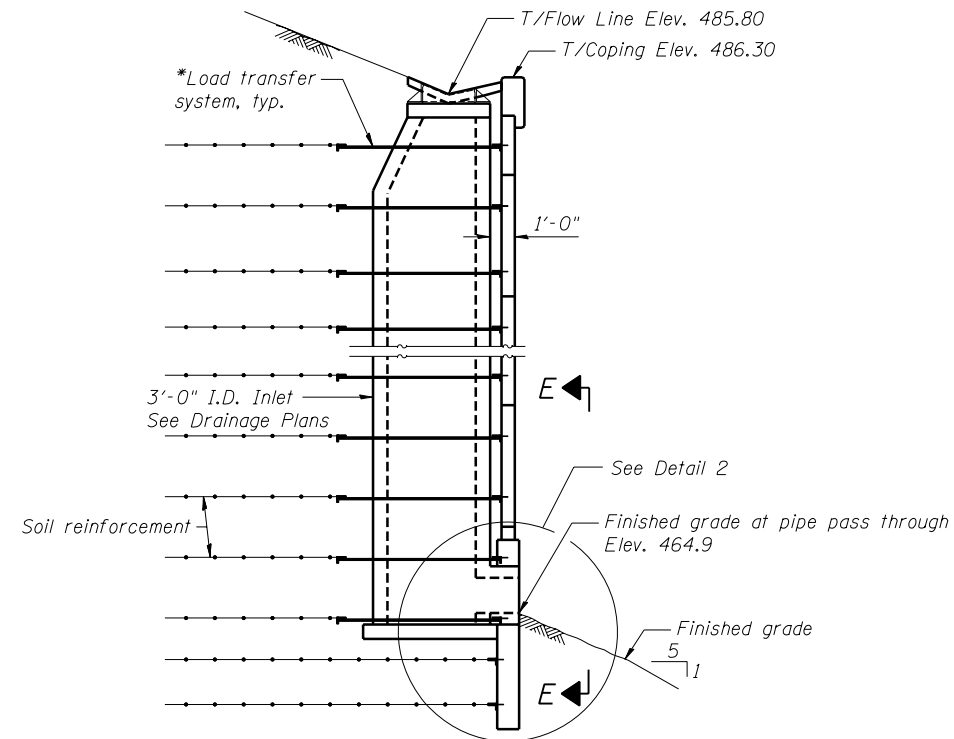


COPING DETAIL (TYPICAL)

FILE NAME = 082W311.76884.002_Sections.dgn

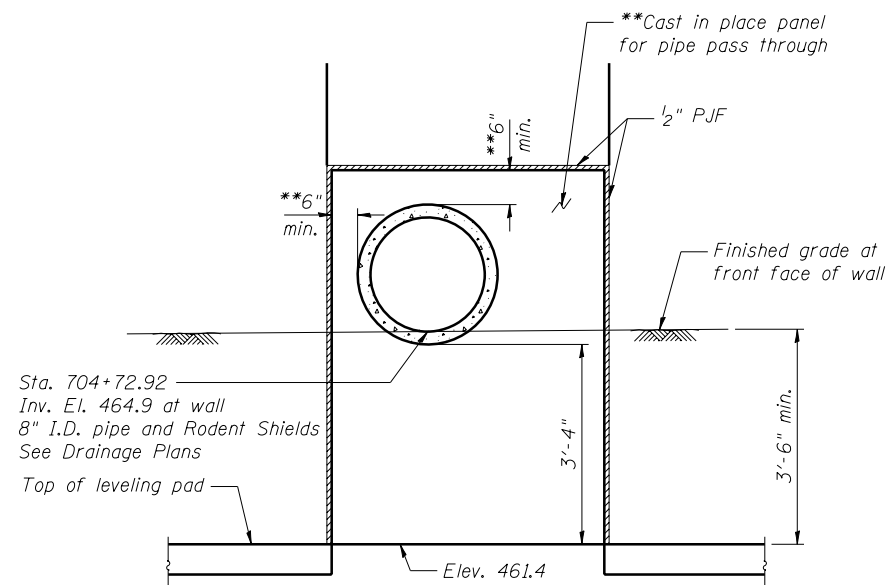
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	CHECKED - DAZ	REVISED -
PLOT SCALE = 0:2.0000 '1' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 10/18/2011	CHECKED - PMM	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	230
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



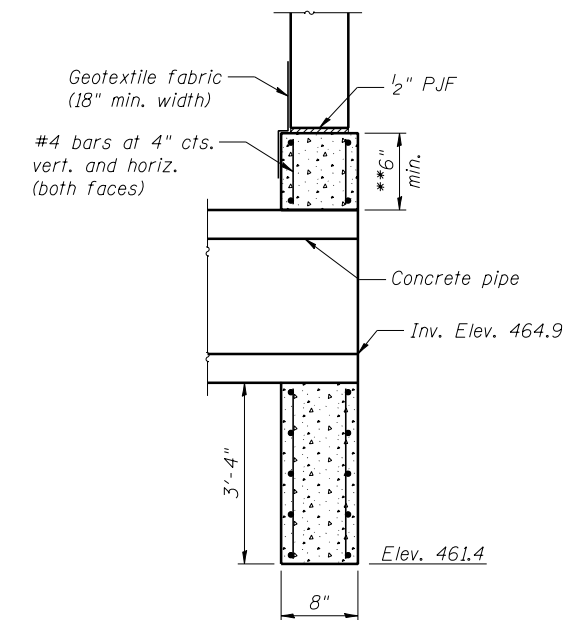
SECTION D-D
 @ Sta. 704+72.92

*MSE supplier to design load transfer system to accommodate concrete pipe and inlet.



SECTION E-E

**Wall supplier to determine required dimensions. Concrete and reinforcement bars for Cast in place panel is included in the cost for Mechanically Stabilized Earth Retaining Wall.



DETAIL 2

FILE NAME = 082W311_76884_003_Sections2.dgn



Zroka Engineering, P.C.
 4216 North Hermitage
 Chicago, IL 60613

USER NAME = Scott Whitney	DESIGNED - PMM	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 0:2.0000 '1' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 11/18/2011	CHECKED - PMM	REVISED -

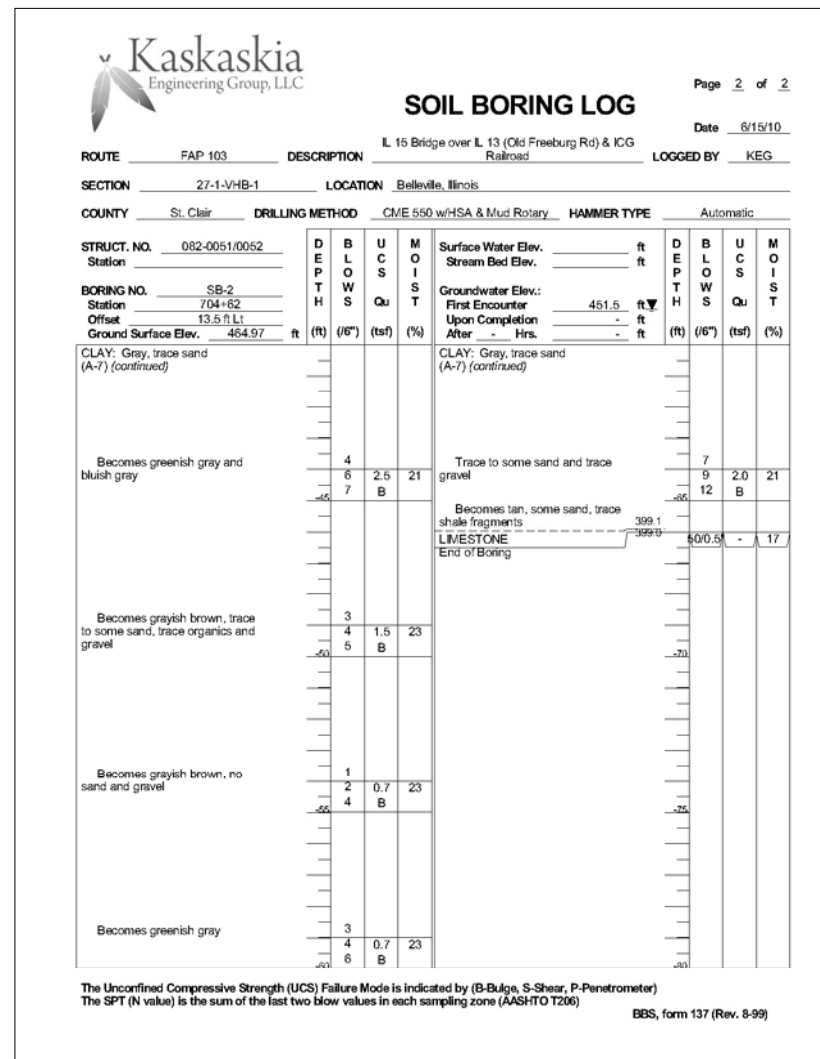
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SECTIONS AT INLET
 STRUCTURE NO. 082-W311**

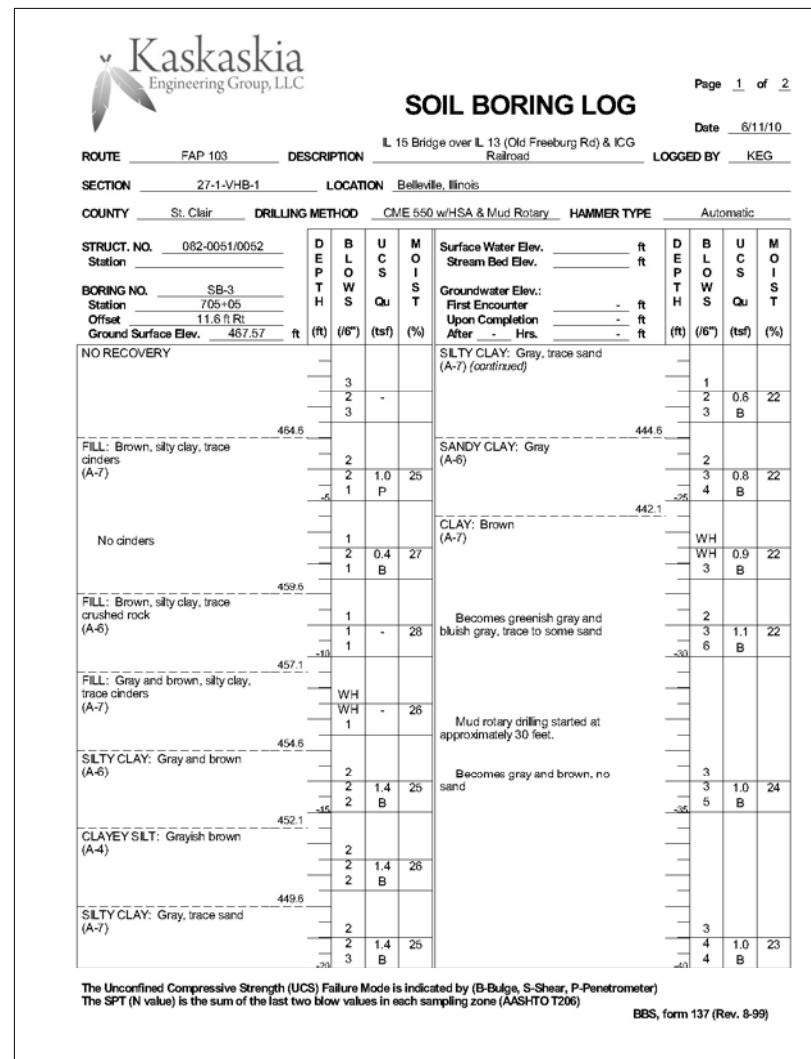
SHEET NO. 3 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	231
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

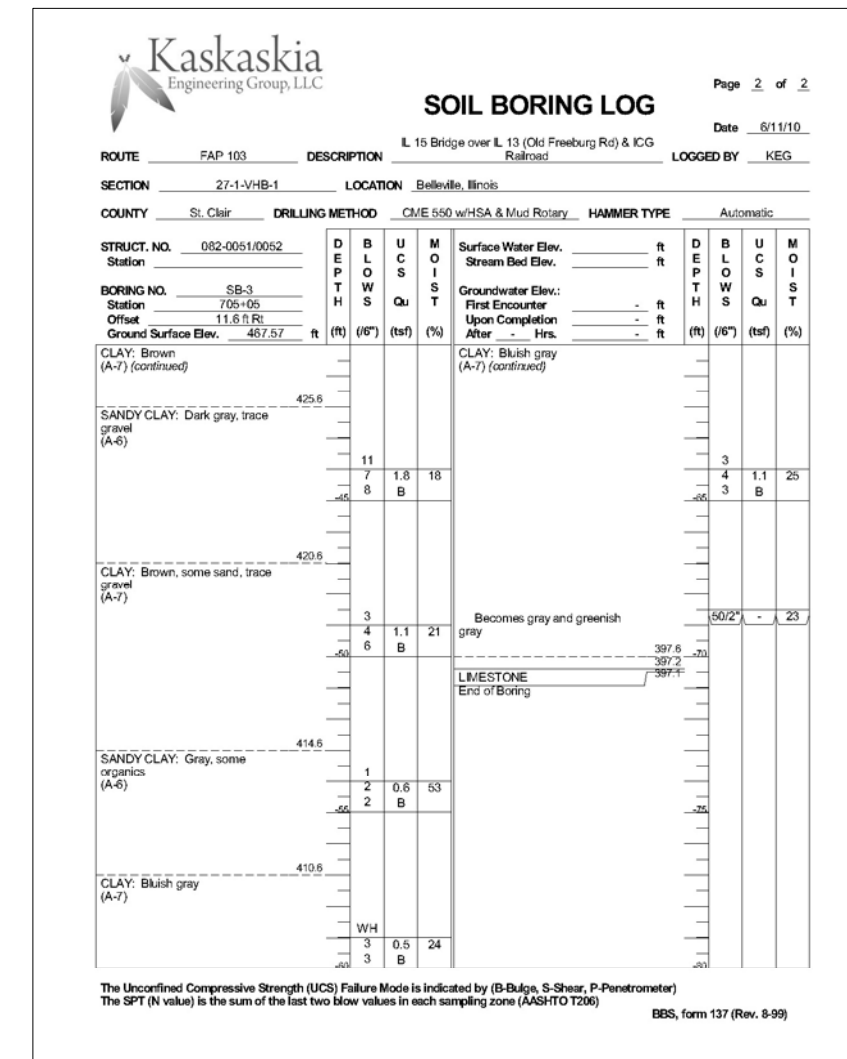
BORING LOG SB-2 (Page 2)



BORING LOG SB-3 (Page 1)



BORING LOG SB-3 (Page 2)



FILE NAME = 082W311_76884_005_BoringLog2.dgn



USER NAME = Scott Whitney	DESIGNED - PMM	REVISED -
PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 10/18/2011	DRAWN - SAW	REVISED -
	CHECKED - PMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
STRUCTURE NO. 082-W311
 SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	233
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

BENCHMARK: Existing chiseled square on south end of northwest wingwall, on SN 082-0051, El. 493.11.

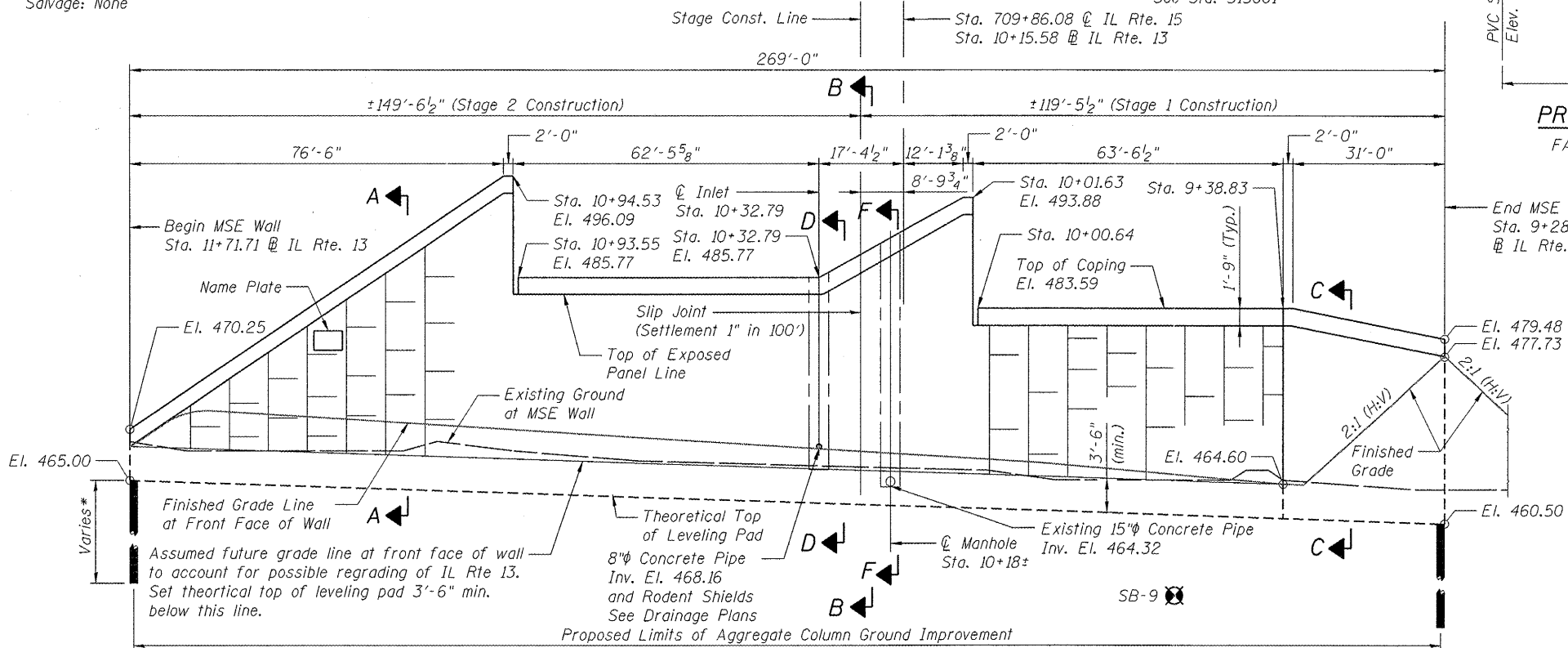
EXISTING STRUCTURE: Structure numbers 082-0051 and 082-0052 were constructed in 1956. These structures consist of dual 8 span built-up steel girder spans: one three-span continuous, one simple span and two, two-span continuous. The riveted girders are supported on pile supported abutments and piers. The overall length of SN 082-0051 (Westbound) is 808 feet and SN 082-0052 (Eastbound) is 746 feet. Each structure provides 35'-8" out-to-out of deck with 30' of roadway width. Both structures were rehabilitated in 1985. Traffic will be maintained on SN 082-0051 while the new eastbound structures are constructed; traffic will then be moved to the new eastbound structures until the westbound structures are complete.

Salvage: None

STATION 11+71.71
BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 103 SEC. 27-1-VHB-1
STRUCTURE NO. 082-W312

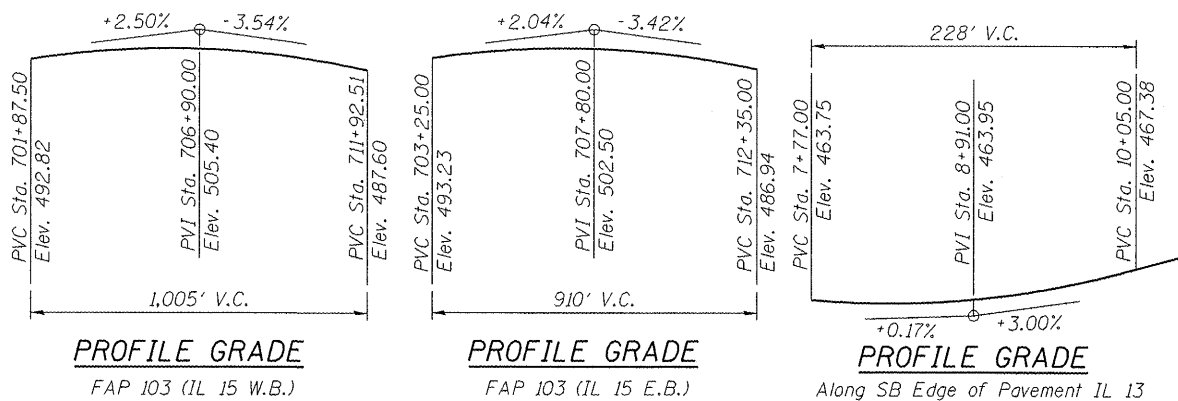
NAME PLATE

See Std. 515001



ELEVATION (REFLECTED VIEW)

Note:
For Sections A-A, B-B & C-C, see Sheet 2
For Sections D-D & F-F, see Sheet 3



NOTES ON GROUND IMPROVEMENT:

1. Install anywhere with 10 feet or more of new fill.
2. Extend 5 feet beyond toes of fill slopes taller than 10 feet.
3. Extend 5 feet in front of face of MSE walls, except within 5 feet of existing deep foundations.
4. Ground improvement elements need to be maintained a minimum of 3 feet away from any new pile locations.

INDEX OF SHEETS

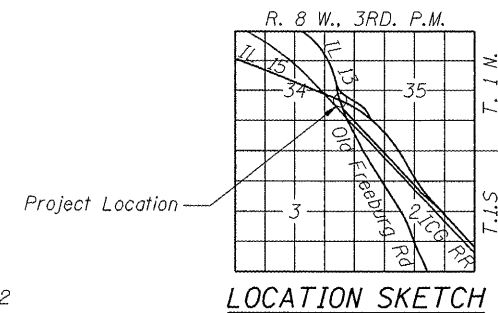
1. General Plan
2. Typical Sections & Bill of Material
3. Sections at Drainage Structures
4. Boring Logs 1
5. Boring Logs 2
6. Boring Logs 3
7. Boring Logs 4

DESIGN SPECIFICATIONS

2002 AASHTO Std. Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
PRECAST CONCRETE UNITS
f'c = 4,500 psi (Panels)



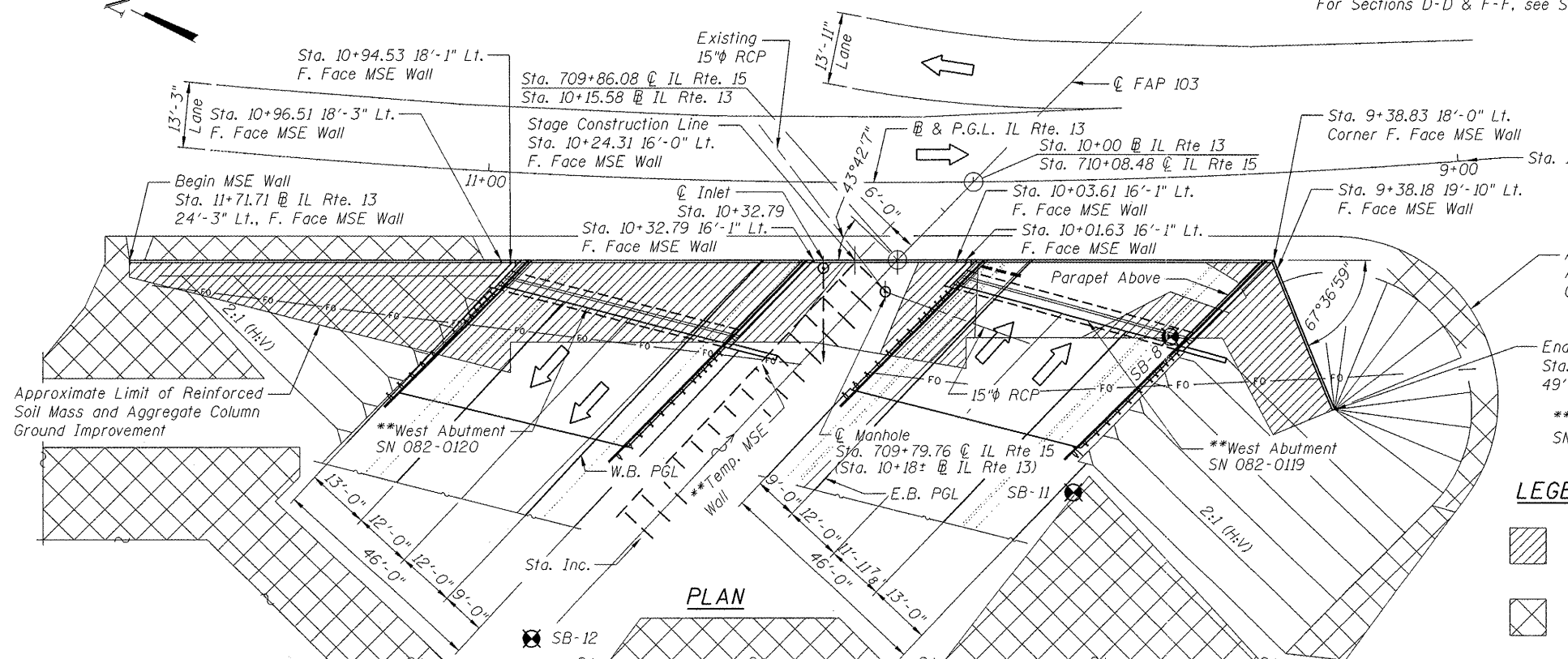
Don A. Jordan 12-8-11
Signature Date
November 30, 2012
Expires

APPROVED
For Structural Adequacy Only

L. Carl Pappas
Engineer of Bridges & Structures

CURVE DATA

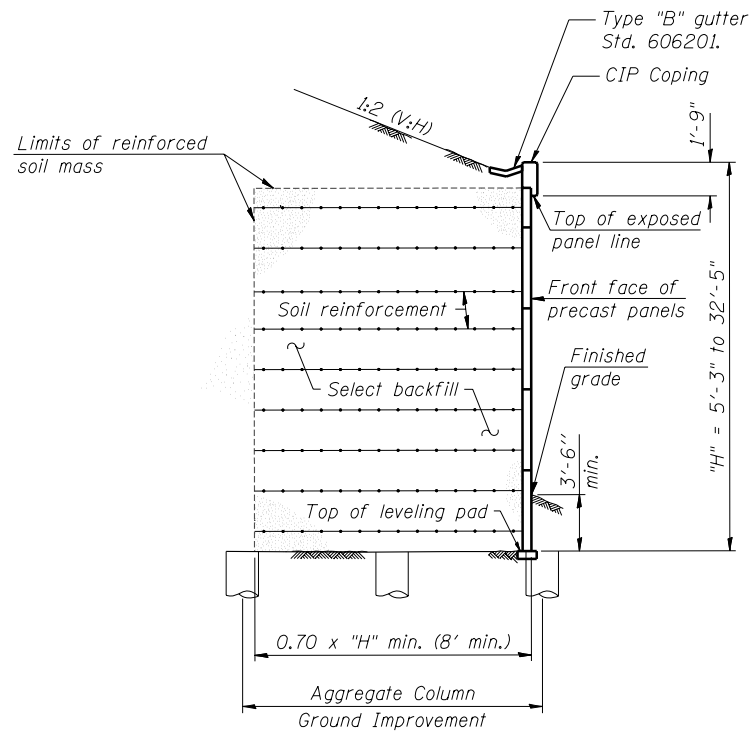
(IL Rte. 15)	(IL Rte. 13)
Δ = 37° 55' 48" (RT)	Δ = 17° 42' 18" (RT)
D = 1° 36' 00"	D = 3° 49' 11"
T = 1,230.59'	T = 233.62'
L = 2,370.64'	L = 463.52'
E = 205.54'	E = 18.08'
R = 3,581.00'	R = 1,500.00'
S.E. = 3.9%	S.E. = 3.0%
P.C. = Sta. 709+26.15	P.C. = Sta. 8+72.98
P.T. = Sta. 732+96.79	P.T. = Sta. 13+36.50
P.I. = Sta. 721+56.75	P.I. = Sta. 11+06.60



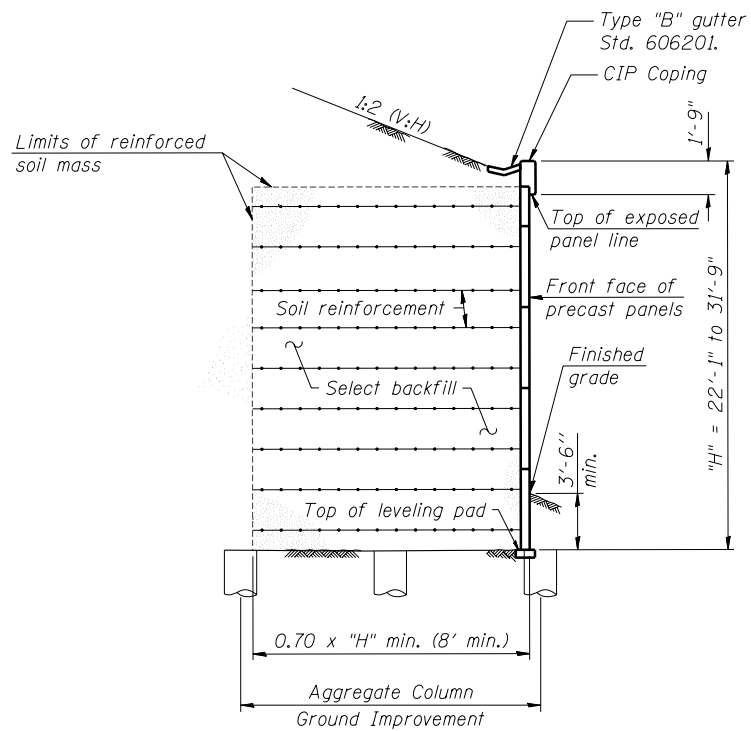
LEGEND:

- Approximate Limit of Reinforced Soil Mass and Aggregate Column Ground Improvement
- Approximate Limit of Aggregate Column Ground Improvement

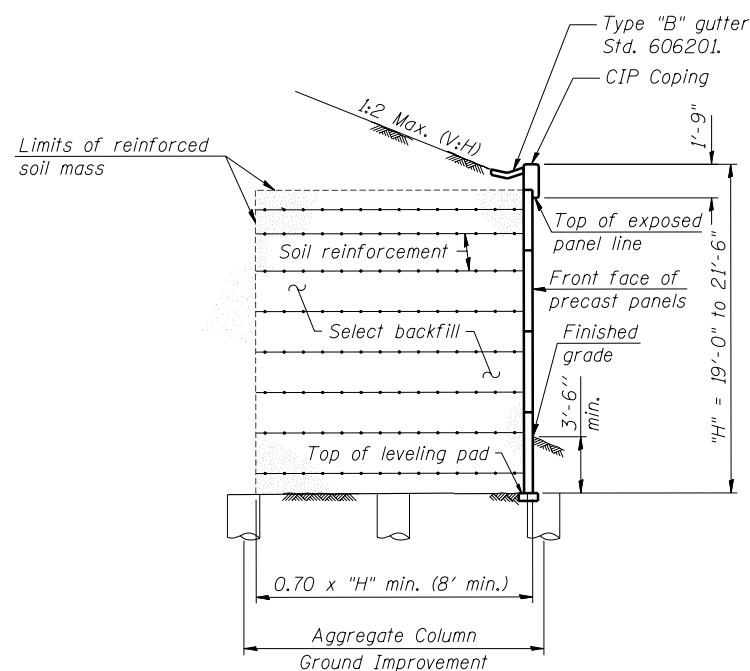
GENERAL PLAN
ILLINOIS ROUTE 15 OVER ILLINOIS ROUTE 13
F.A.P. RTE. 103 - SEC. 27-1-VHB-1
ST. CLAIR COUNTY
STA. 11+71.71 TO STA. 9+28.19
STRUCTURE NO. 082-W312



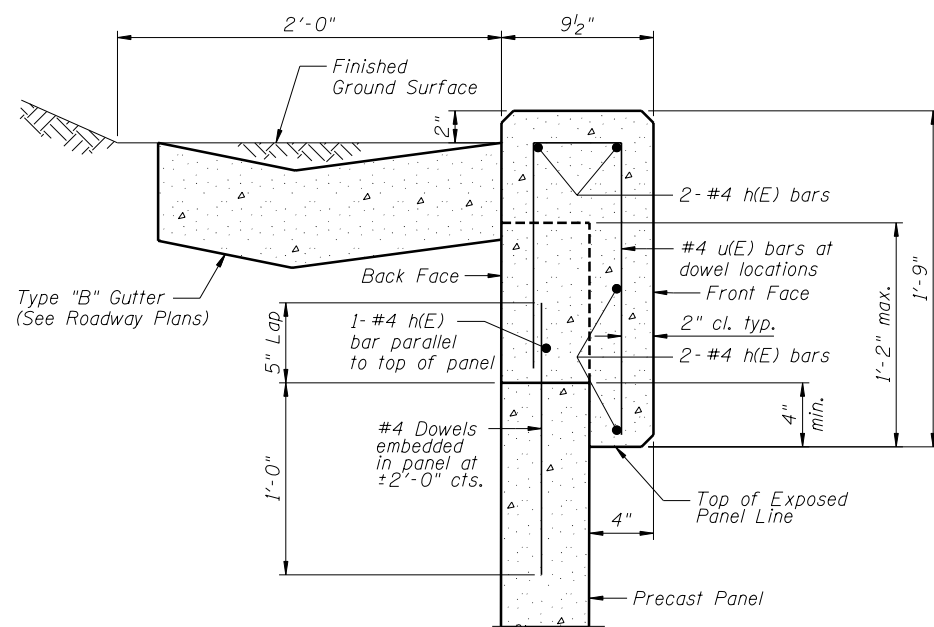
SECTION A-A
Sta. 11+71.71 to 10+94.53



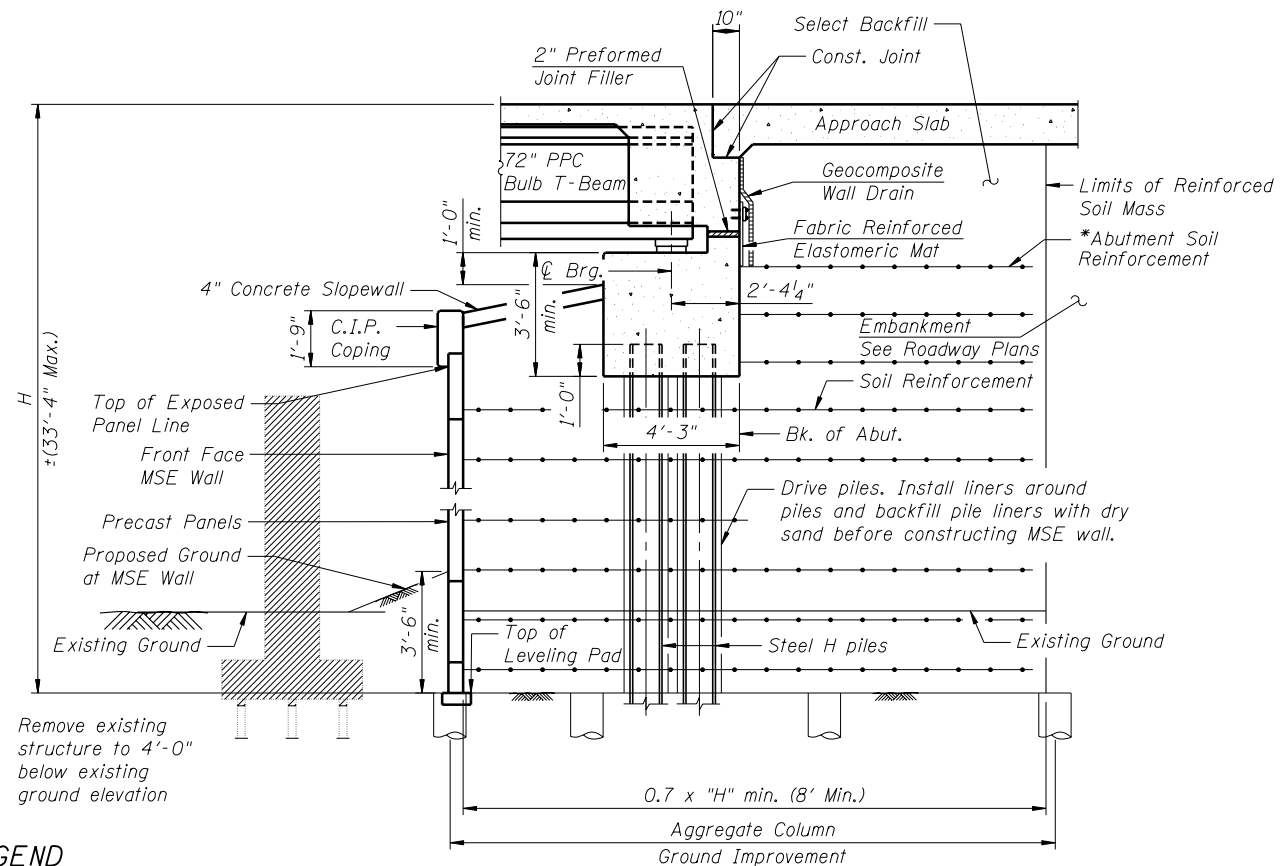
SECTION B-B
Between Bridges



SECTION C-C
Sta. 10+00.64 to 9+28.19



COPING DETAIL (TYPICAL)



LEGEND
 Structure Removal, see structure plans for SN 082-0119 & SN 082-0120

*M.S.E. wall supplier shall design and supply abutment soil reinforcement to resist earth pressure of 40 pcf equivalent fluid weight applied to back of abutment plus a longitudinal force of 5.6 kip/ft length of abutment.

SECTION THRU MSE WALL AT ABUTMENT
(Dimensions @ Rt. L's)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	635
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	5,405

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Cast in place concrete and reinforcement bars for coping is included in the cost for Mechanically Stabilized Earth Retaining Wall.

FILE NAME = 082W312_76884_002_Section.dgn



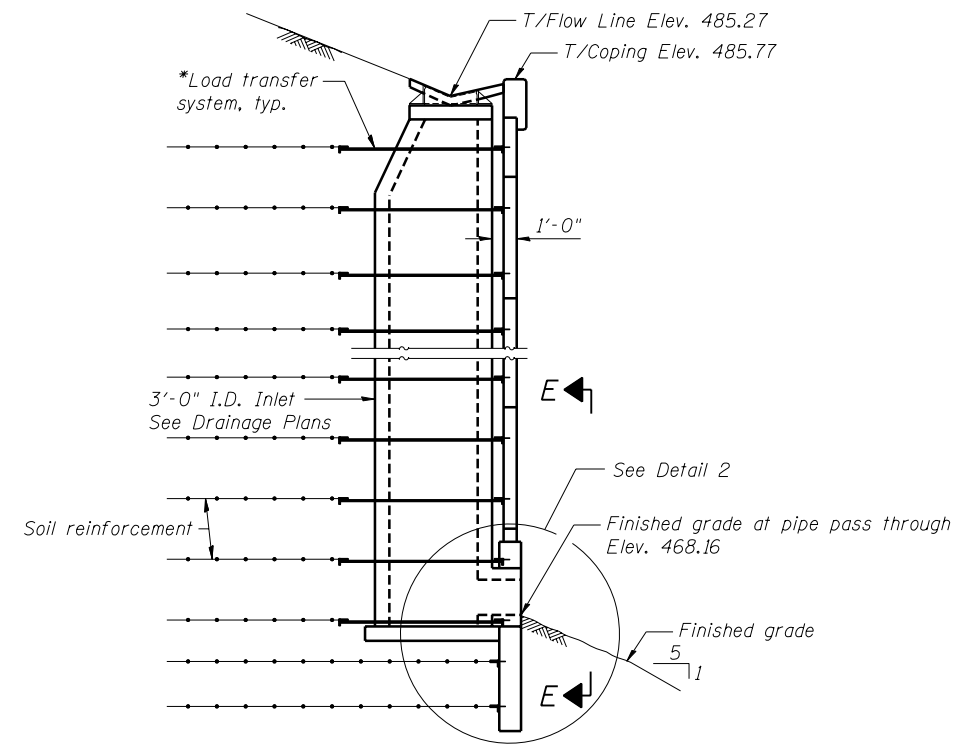
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	CHECKED - DAZ	REVISED -
PLOT SCALE = 0:2.0000 '1' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 10/18/2011	CHECKED - PMM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND BILL OF MATERIAL
STRUCTURE NO. 082-W312**

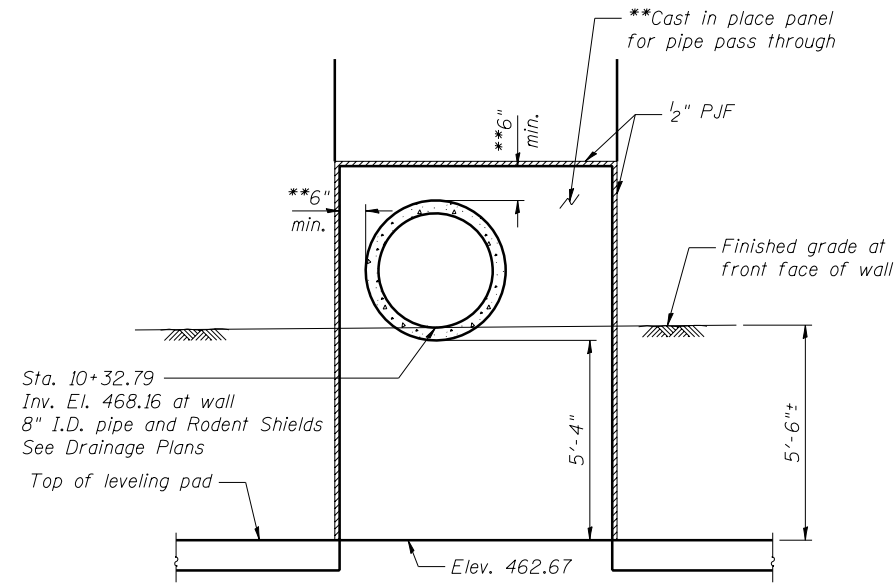
SHEET NO. 2 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	235
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



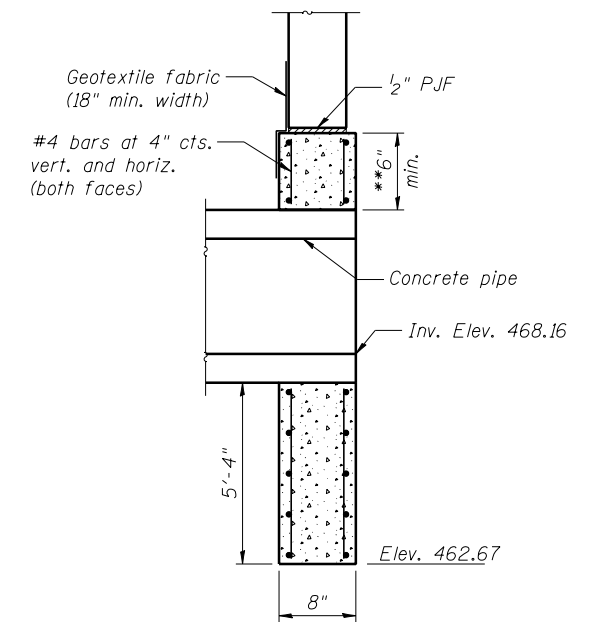
SECTION D-D
@ Sta. 10+32.79

*MSE supplier to design load transfer system to accommodate concrete pipes, inlet, and manhole.

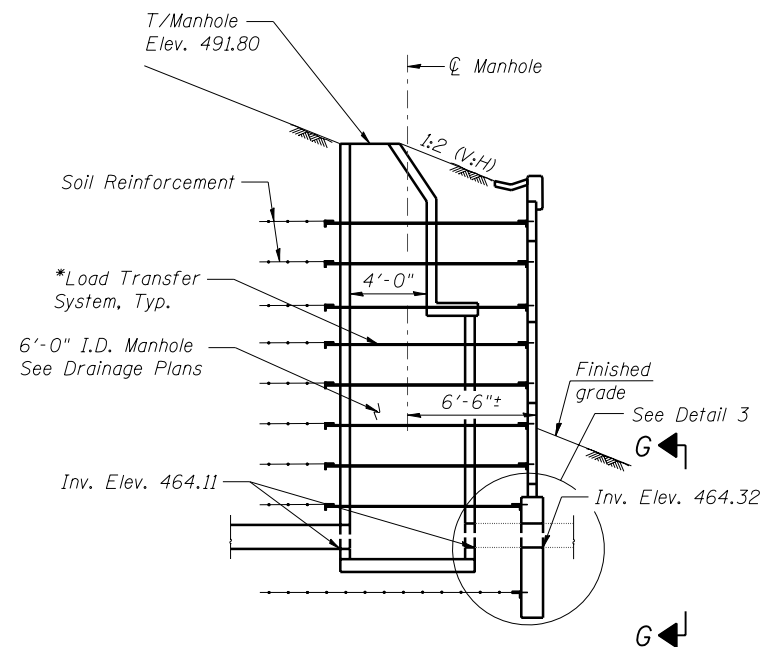


SECTION E-E

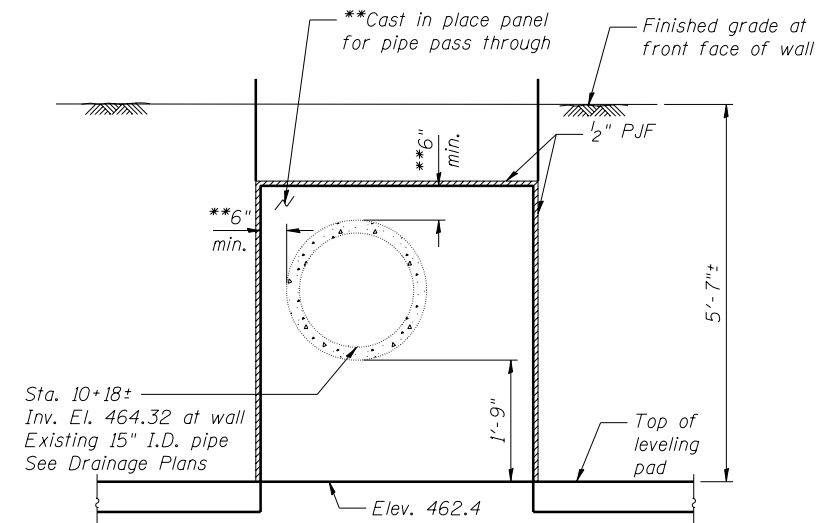
**Wall supplier to determine required dimensions. Concrete and reinforcement bars for Cast in place panel is included in the cost for Mechanically Stabilized Earth Retaining Wall.



DETAIL 2

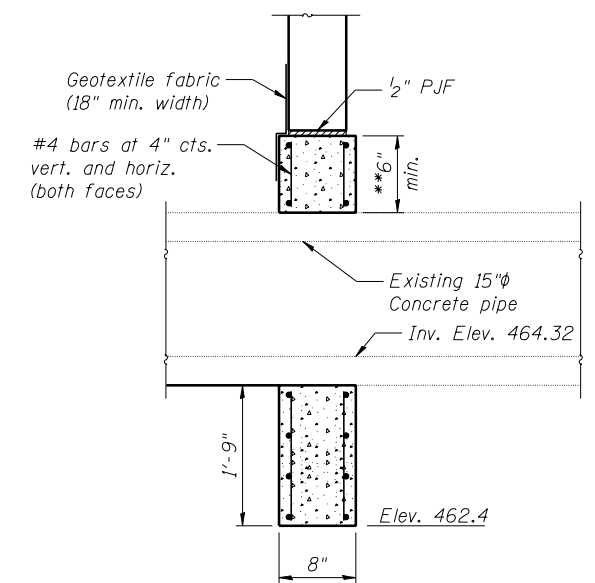


SECTION F-F
@ Sta. 10+18±



SECTION G-G

**Wall supplier to determine required dimensions. Concrete and reinforcement bars for Cast in place panel is included in the cost for Mechanically Stabilized Earth Retaining Wall.



DETAIL 3

FILE NAME = 082W312_76884_003_Sections2.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = Scott Whitney
PLOT SCALE = 0:2.0000 '1' / IN.
PLOT DATE = 11/18/2011

DESIGNED - PMM
CHECKED - DAZ
DRAWN - SAW
CHECKED - PMM

REVISED - _____
REVISED - _____
REVISED - _____
REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SECTIONS AT DRAINAGE STRUCTURES
STRUCTURE NO. 082-W312**

SHEET NO. 3 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	236
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

BORING LOG SB-8 (Page 1)

BORING LOG SB-8 (Page 2)

BORING LOG SB-9 (Page 1)

Kaskaskia Engineering Group, LLC											
SOIL BORING LOG						Page 1 of 2					
ROUTE	DESCRIPTION			LOCATION			DATE	LOGGED BY			
FAP 103	L 15 Bridge over I. 13 (Old Freeburg Rd) & ICG Railroad			Bellevue, Illinois			6/9/10	KEG			
SECTION	27-1-VHB-1	DRILLING METHOD	CME 55 w/HSA & Mud Rotary	HAMMER TYPE	Automatic						
COUNTY	St. Clair										
STRUCT. NO.	082-0051/0052	Station	710+14	Surface Water Elev.	ft	Stream Bed Elev.	ft	GROUNDWATER ELEV.:	ft	First Encounter	ft
BORING NO.	SB-8	Station	710+14	Groundwater Elev.	453.7	First Encounter	463.7	Upon Completion	460.0	After	24 Hrs.
Offset	51.3 ft RL	Ground Surface Elev.	464.66	ft (ft)	(/ft)	(tsf)	(%)	ft (ft)	(/ft)	(tsf)	(%)
TOPSOIL - 12 inches FILL: Dark brown, sandy clay, trace crushed rock, asphalt, and organics (A-6) FILL: Brown, silty clay (A-6) SILTY CLAY: Brown and gray (A-7) SILTY CLAY: Brown (A-6) SILTY CLAY: Brown (A-7) CLAY: Brown and grayish brown, trace sand (A-7) CLAYEY SAND: Gray and brown, fine (A-2) CLAYEY SILT: Gray (A-4) CLAY: Gray (A-7) ORGANIC SILT: Brown (A-4)											
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)											

Kaskaskia Engineering Group, LLC											
SOIL BORING LOG						Page 2 of 2					
ROUTE	DESCRIPTION			LOCATION			DATE	LOGGED BY			
FAP 103	L 15 Bridge over I. 13 (Old Freeburg Rd) & ICG Railroad			Bellevue, Illinois			6/9/10	KEG			
SECTION	27-1-VHB-1	DRILLING METHOD	CME 55 w/HSA & Mud Rotary	HAMMER TYPE	Automatic						
COUNTY	St. Clair										
STRUCT. NO.	082-0051/0052	Station	710+14	Surface Water Elev.	ft	Stream Bed Elev.	ft	GROUNDWATER ELEV.:	ft	First Encounter	ft
BORING NO.	SB-8	Station	710+14	Groundwater Elev.	453.7	First Encounter	463.7	Upon Completion	460.0	After	24 Hrs.
Offset	51.3 ft RL	Ground Surface Elev.	464.66	ft (ft)	(/ft)	(tsf)	(%)	ft (ft)	(/ft)	(tsf)	(%)
ORGANIC SILT: Brown (A-4) CLAYEY SILT: Gray (A-4) SILTY CLAY: Gray, trace sand (A-6) SANDY CLAY: Gray (A-6) CLAY: Grayish brown, some sand (A-7) SANDY SILT: Greenish gray, trace to some organics (A-4) CLAY: Grayish brown, some sand (A-7) WEATHERED LIMESTONE: Gray (A-6) CLAY: Grayish brown, some sand (A-7) BECOMES BLuish GRAY BECOMES GRAY AND BROWN BECOMES BROWN BECOMES GREENISH GRAY MUD ROTARY DRILLING STARTED AT APPROXIMATELY 30 FEET.											
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)											

Kaskaskia Engineering Group, LLC											
SOIL BORING LOG						Page 1 of 2					
ROUTE	DESCRIPTION			LOCATION			DATE	LOGGED BY			
FAP 103	L 15 Bridge over I. 13 (Old Freeburg Rd) & ICG Railroad			Bellevue, Illinois			6/10/10	KEG			
SECTION	27-1-VHB-1	DRILLING METHOD	CME 55 w/HSA & Mud Rotary	HAMMER TYPE	Automatic						
COUNTY	St. Clair										
STRUCT. NO.	082-0051/0052	Station	710+78	Surface Water Elev.	ft	Stream Bed Elev.	ft	GROUNDWATER ELEV.:	ft	First Encounter	ft
BORING NO.	SB-9	Station	710+78	Groundwater Elev.	452.8	First Encounter	452.8	Upon Completion	-	After	-
Offset	13.0 ft RL	Ground Surface Elev.	468.76	ft (ft)	(/ft)	(tsf)	(%)	ft (ft)	(/ft)	(tsf)	(%)
TOPSOIL - 12 inches FILL: Brown, clayey silt, trace crushed rock (A-4) FILL: Brown, silty clay (A-6) SILTY CLAY: Brown and gray (A-6) SILTY CLAY: Brown (A-7) SILTY CLAY: Brown (A-7) CLAY: Brown and grayish brown, trace sand (A-7) SILTY CLAY: Brown (A-7) CLAY: Gray and brown, trace sand (A-7) CLAYEY SAND: Gray, fine (A-2) CLAY: Brown and grayish brown, trace sand (A-7) BECOMES GRAY AND BROWN BECOMES BROWN BECOMES GREENISH GRAY MUD ROTARY DRILLING STARTED AT APPROXIMATELY 30 FEET.											
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)											

FILE NAME = 082W312_76884_004_Bor-log1.dgn

ZROKA engineering
 Zroka Engineering, P.C.
 4216 North Hermitage
 Chicago, IL 60613

USER NAME	Scott Whitney		
DESIGNED	PMM		
CHECKED	DAZ		
DRAWN	SAW		
PLOT DATE	10/18/2011		
REVISIONS	REVISOR	DATE	DESCRIPTION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
 STRUCTURE NO. 082-W312

SHEET NO. 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	237
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

BORING LOG SB-12 (Page 1)

Page 1 of 2

Kaskaskia
Engineering Group, LLC

SOIL BORING LOG

Date 5/18/11

ROUTE FAP 103 DESCRIPTION L 15 over L 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 D E L U M
P L O C O I
T W S Q u T
BORING NO. SB-12
Station 708+77.39
Offset 1.6 ft LT
Ground Surface Elev. 465.95 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS	UCS (tsf)	FAILURE MODE
0 - 4	TOPSOIL - 4 inches				
4 - 8	FILL: Crushed rock and millings, trace clay	1	1.2	23	
8 - 7		3			
7 - 5	FILL: Dark gray silt, trace crushed rock (A-4)	4	1.8	21	
5 - 5		5			
5 - 7	FILL: Gray clayey silt, trace organics (A-4)	5	0.8	22	
7 - 1		1			
1 - 1	SILTY CLAY: Gray (A-6)	1	1.2	25	
1 - 3		3			
3 - 2		2	1.3	25	
2 - 2		2			
2 - 0.4	Becomes gray and brown, trace fine sand	2	2.2	21	
0.4 - 0.4		4			
0.4 - 1		1			
1 - 3		3	1.3	25	
3 - 3		3			
3 - 1.2	Trace iron stains and fine sand	2			
1.2 - 1.2		4			
1.2 - 4		4			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

BORING LOG SB-12 (Page 2)

Page 2 of 2

Kaskaskia
Engineering Group, LLC

SOIL BORING LOG

Date 5/18/11

ROUTE FAP 103 DESCRIPTION L 15 over L 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 D E L U M
P L O C O I
T W S Q u T
BORING NO. SB-12
Station 708+77.39
Offset 1.6 ft LT
Ground Surface Elev. 465.95 ft (ft) (ft) (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS	UCS (tsf)	FAILURE MODE
465.95 - 453.0	CLAYEY SILT: Gray, trace fine sand (A-4)	6	1.4	21	
453.0 - 440.5		7			
440.5 - 419.5		5			
419.5 - 416.0	SILTY CLAY: Gray, trace sand and gravel (A-6)	1	1.1	22	
416.0 - 396.0		1			
396.0 - 394.0	CLAY: Gray, trace pebbles (A-7)	3	0.7	22	
394.0 - 394.0		4			
394.0 - 394.0	CLAYEY SHALE	1			
394.0 - 394.0	Bottom 1 inch - limestone pieces	2			
394.0 - 394.0	End of Boring	2			
394.0 - 394.0		2			
394.0 - 394.0	Becomes dark gray	2			
394.0 - 394.0		2			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 10/18/2011	DRAWN - SAW	REVISED -
	CHECKED - PMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
STRUCTURE NO. 082-W312
SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	240
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

BENCHMARK: Existing chiseled square on south end of northwest wingwall, on SN 082-0051, El. 493.11.

EXISTING STRUCTURE: Structure numbers 082-0051 and 082-0052 were constructed in 1956. These structures consist of dual 8 span built-up steel girder spans: one three-span continuous, one simple span and two, two-span continuous. The riveted girders are supported on pile supported abutments and piers. The overall length of SN 082-0051 (Westbound) is 808 feet and SN 082-0052 (Eastbound) is 746 feet. Each structure provides 35'-8" out-to-out of deck with 30' of roadway width. Both structures were rehabilitated in 1985. Traffic will be maintained on SN 082-0051 while the new eastbound structures are constructed; traffic will then be moved to the new eastbound structures until the westbound structures are complete.

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)
PRECAST CONCRETE UNITS
 $f'_c = 4,500$ psi (Panels)

DESIGN SPECIFICATIONS

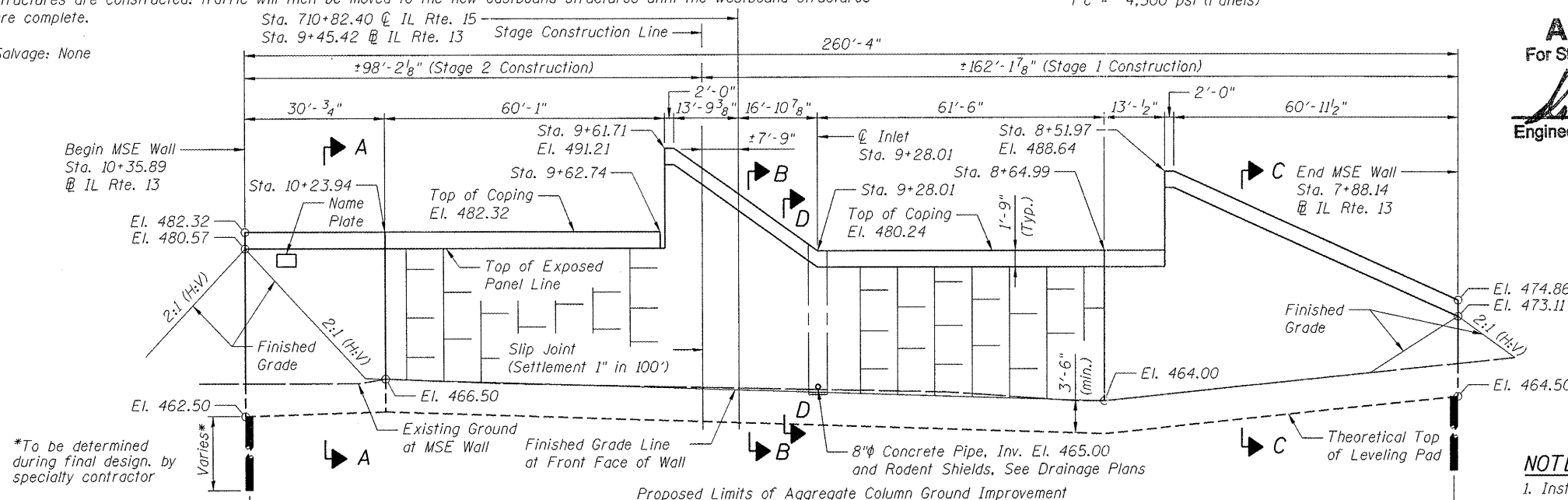
2002 AASHTO Std. Specifications for Highway Bridges, 17th Edition

STATION 10+35.89
 BUILT BY
 STATE OF ILLINOIS
 F.A.P. RTE. 103 SEC. 27-1-VHB-1
 STRUCTURE NO. 082-W313

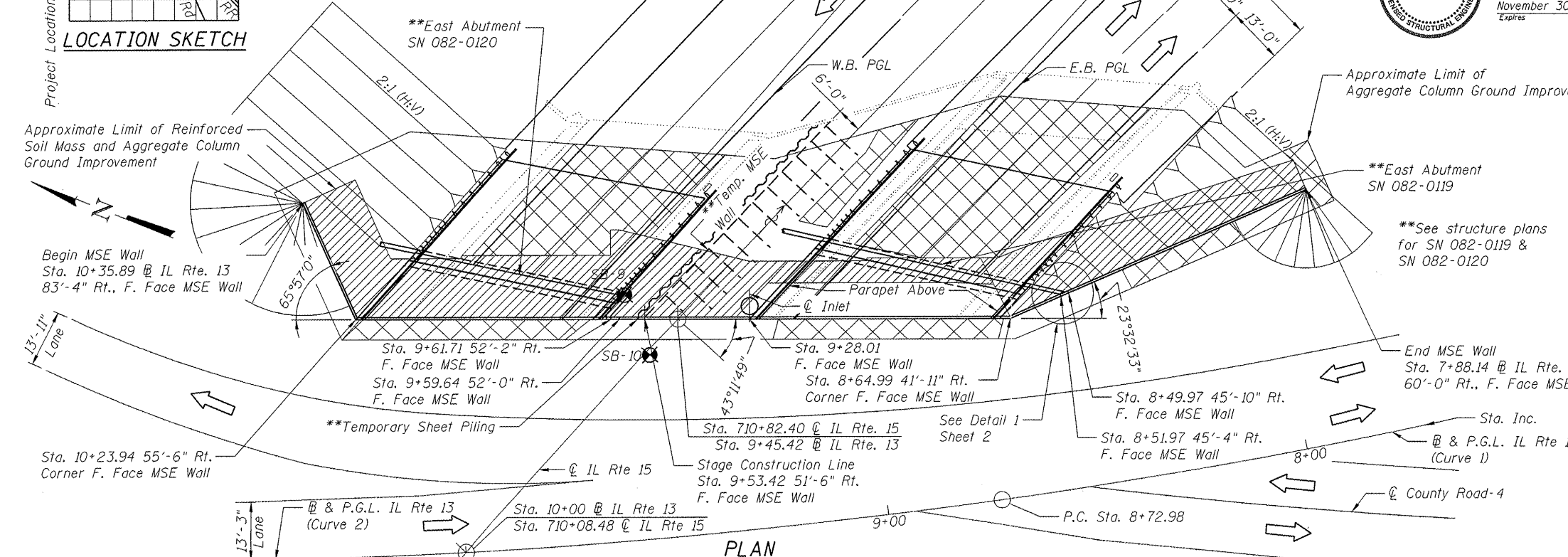
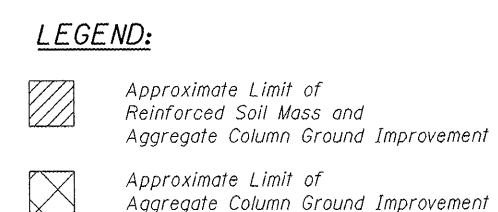
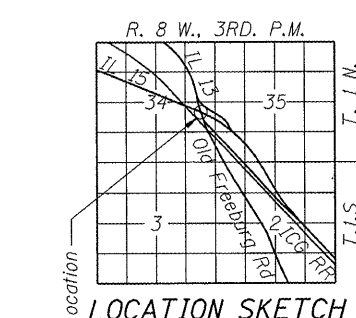
INDEX OF SHEETS

1. General Plan
2. Typical Sections & Bill of Material
3. Sections at Inlet
4. Boring Logs 1
5. Boring Logs 2

Salvage: None

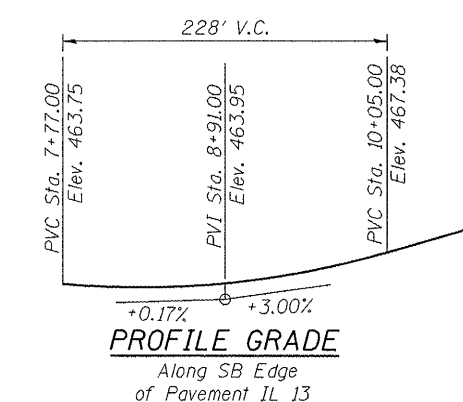
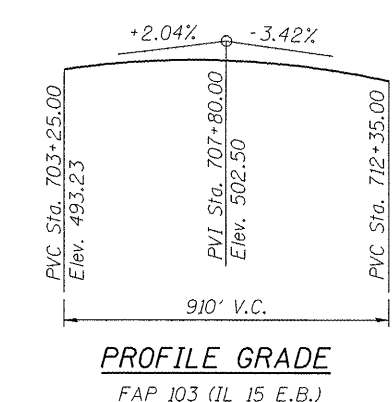
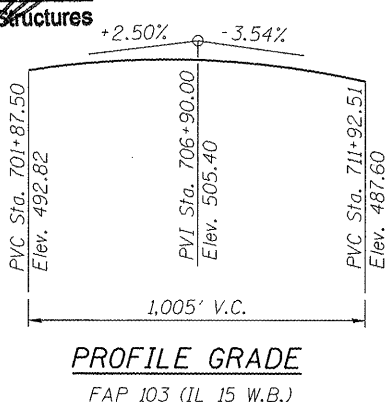


*To be determined during final design, by specialty contractor



STATE OF ILLINOIS
 DEBORAH A. JOHNS
 081-005152
 LICENSED PROFESSIONAL ENGINEER
 Signature: [Signature]
 Date: November 30, 2012
 Expires: [Blank]

- NOTES ON GROUND IMPROVEMENT:**
1. Install anywhere with 10 feet or more of new fill.
 2. Extend 5 feet beyond toes of fill slopes taller than 10 feet.
 3. Extend 5 feet in front of face of MSE walls, except within 5 feet of existing deep foundations.
 4. Ground improvement elements need to be maintained a minimum of 3 feet away from any new pile locations.



CURVE DATA

(IL Rte. 15)	(IL Rte. 13-Curve 1)	(IL Rte. 13-Curve 2)
$\Delta = 37^\circ 55' 48''$ (RT)	$\Delta = 16^\circ 53' 45''$ (RT)	$\Delta = 17^\circ 42' 18''$ (RT)
$D = 1^\circ 36' 00''$	$D = 4^\circ 24' 27''$	$D = 3^\circ 49' 11''$
$T = 1,230.59'$	$T = 193.08'$	$T = 233.62'$
$L = 2,370.64'$	$L = 383.36'$	$L = 463.52'$
$E = 205.54'$	$E = 14.26'$	$E = 18.08'$
$R = 3,581.00'$	$R = 1,300.00'$	$R = 1,500.00'$
$S.E. = 3.9\%$	$S.E. = 3.0\%$	$S.E. = 3.0\%$
$P.C. =$ Sta. 709+26.15	$P.C. =$ Sta. 4+89.63	$P.C. =$ Sta. 8+72.98
$P.T. =$ Sta. 732+96.79	$P.T. =$ Sta. 8+72.98	$P.T. =$ Sta. 13+36.50
$P.I. =$ Sta. 721+56.75	$P.I. =$ Sta. 6+82.71	$P.I. =$ Sta. 11+06.60

GENERAL PLAN
ILLINOIS ROUTE 15 OVER ILLINOIS ROUTE 13
F.A.P. RTE. 103 - SEC. 27-1-VHB-1
ST. CLAIR COUNTY
STA. 10+35.89 TO STA. 7+88.14
STRUCTURE NO. 082-W313

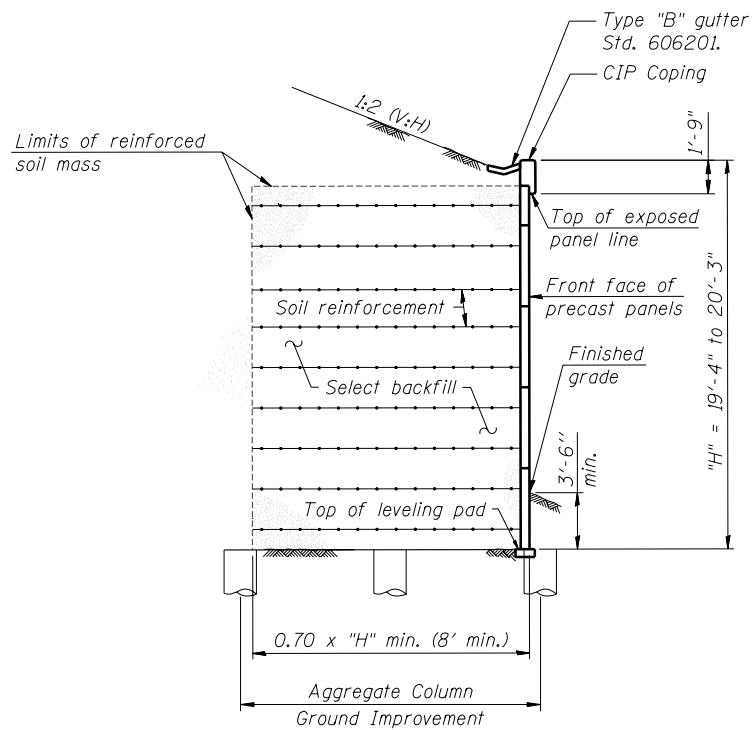
ZROKA Engineering, P.C.
 4216 North Hermitage
 Chicago, IL 60613

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PLAT DATE = 12/7/2011	DRAWN - SAW	REVISIONS -
	CHECKED - PMM	REVISIONS -

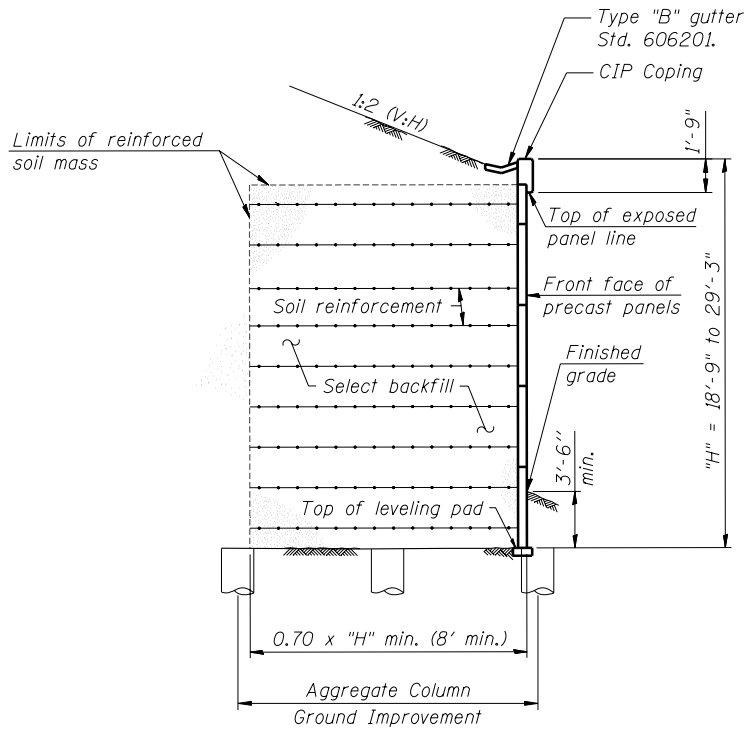
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 082-W313
 SHEET NO. 1 OF 5 SHEETS

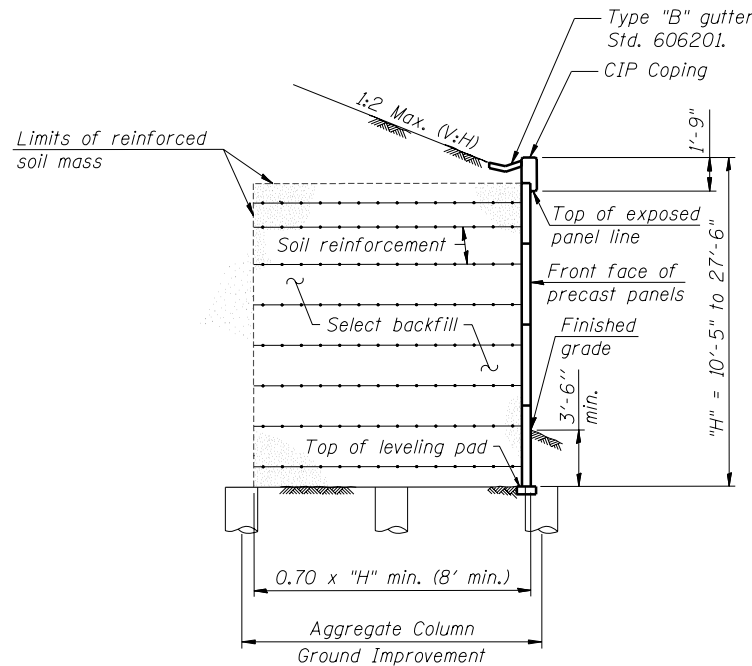
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	241
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				



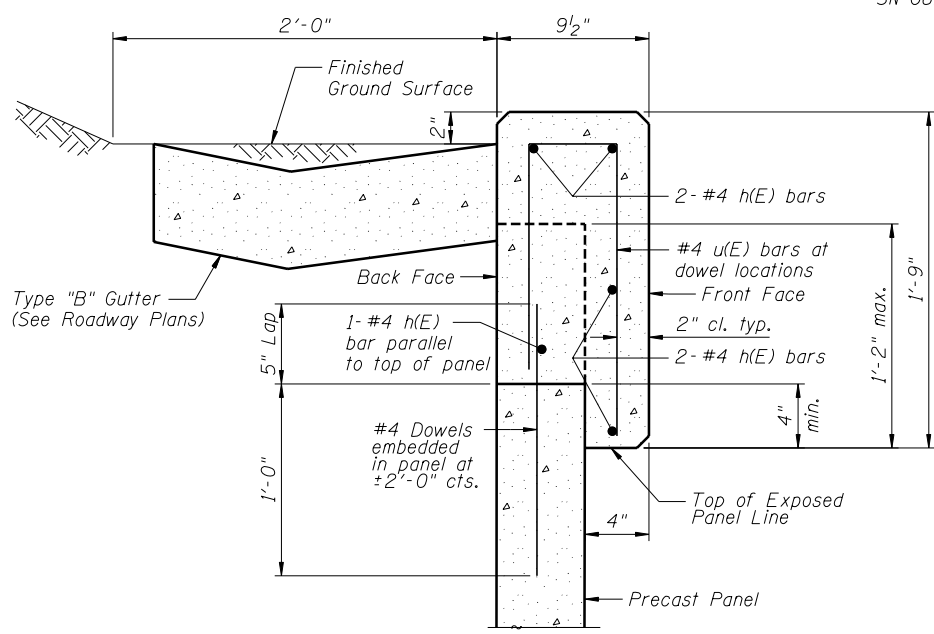
SECTION A-A
Sta. 10+35.89 to 9+62.74



SECTION B-B
Between Bridges



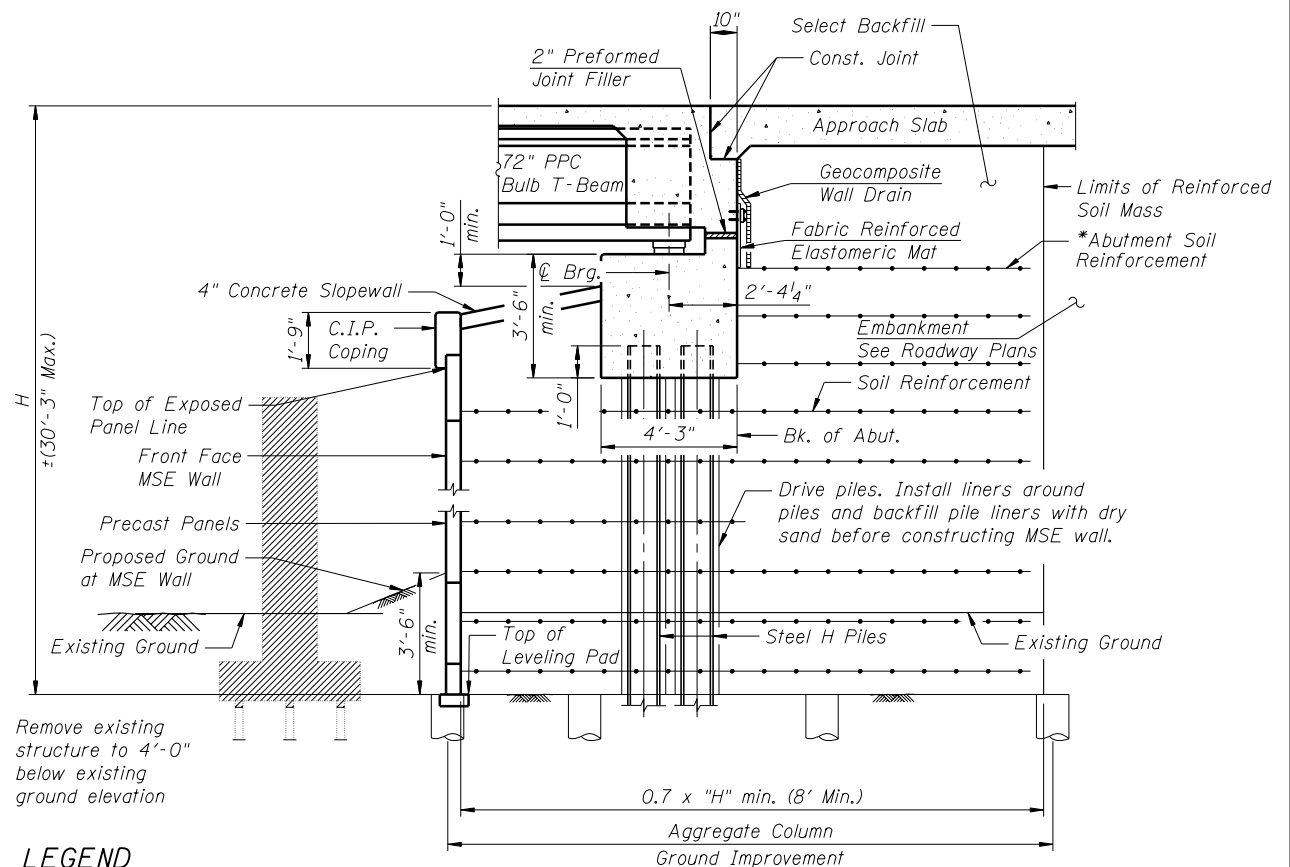
SECTION C-C
Sta. 8+51.97 to 7+88.14



COPING DETAIL (TYPICAL)

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Cast in place concrete and reinforcement bars for coping is included in the cost for Mechanically Stabilized Earth Retaining Wall.



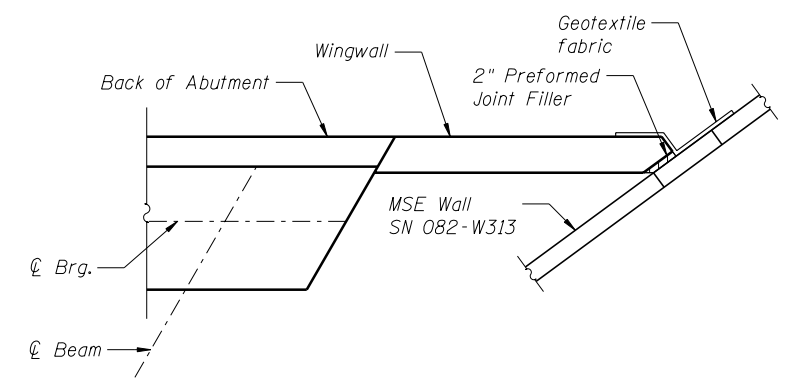
LEGEND

Structure Removal, see structure plans for SN 082-0119 & SN 082-0120

*M.S.E. wall supplier shall design and supply abutment soil reinforcement to resist earth pressure of 40 pcf equivalent fluid weight applied to back of abutment plus a longitudinal force of 1.0 kip/ft length of abutment.

SECTION THRU MSE WALL AT ABUTMENT

(Dimensions @ Rt. L's)



DETAIL 1

(E.B. East Abutment South Wingwall Shown, other locations similar)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	920
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	4,758

FILE NAME = 082W313_76884_002_Section.dgn



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	CHECKED - DAZ	REVISED -
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PLOT DATE = 10/18/2011	CHECKED - PMM	REVISED -

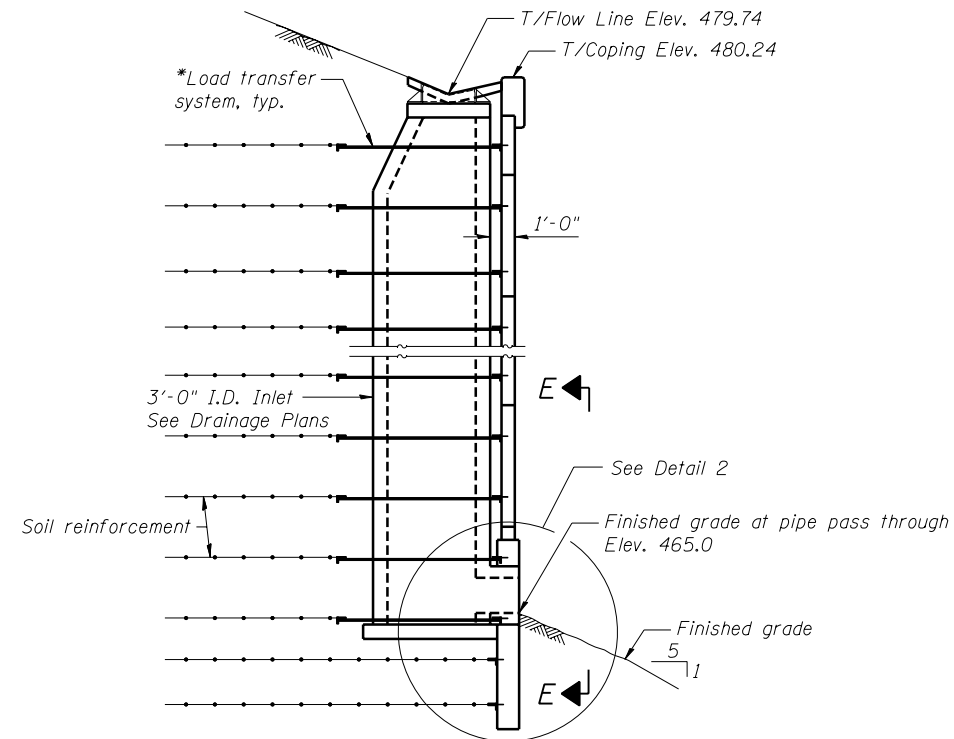
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND BILL OF MATERIAL
STRUCTURE NO. 082-W313**

SHEET NO. 2 OF 5 SHEETS

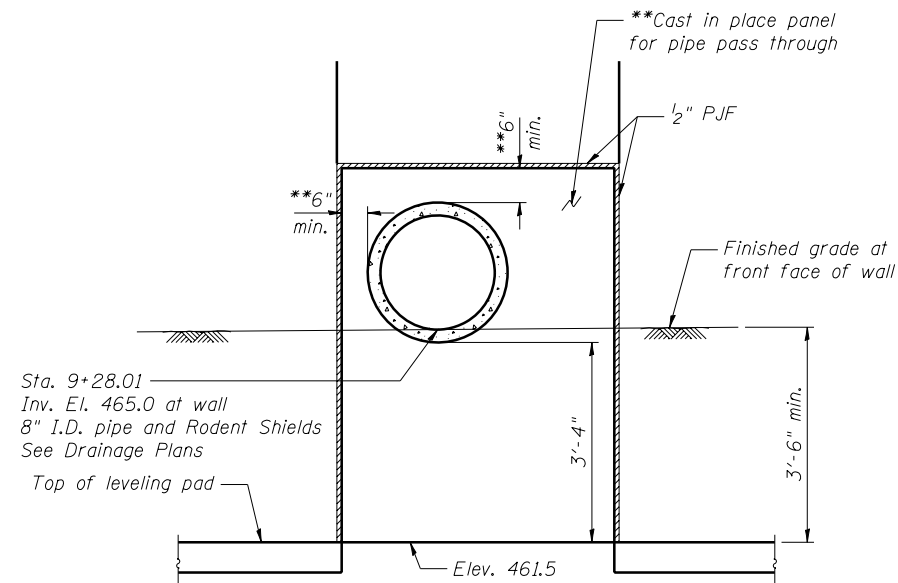
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	242
CONTRACT NO. 76884				

ILLINOIS FED. AID PROJECT



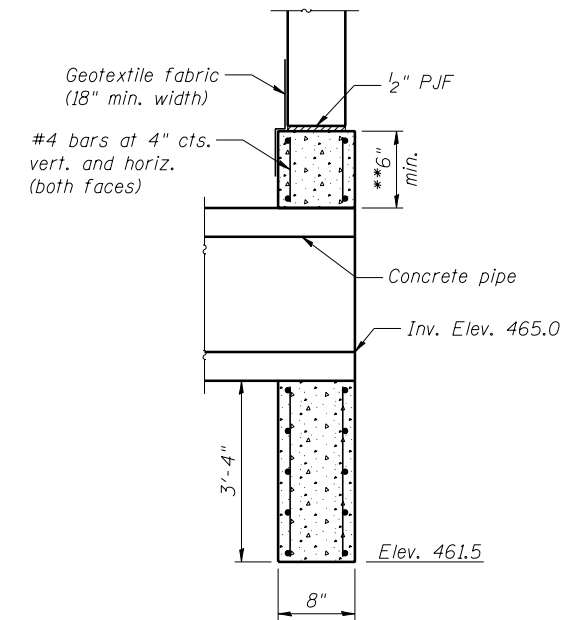
SECTION D-D
 © Sta. 9+28.01

*MSE supplier to design load transfer system to accommodate concrete pipe and inlet.



SECTION E-E

**Wall supplier to determine required dimensions. Concrete and reinforcement bars for Cast in place panel is included in the cost for Mechanically Stabilized Earth Retaining Wall.



DETAIL 2

FILE NAME = 082W313_76884_003_Sections2.dgn



Zroka Engineering, P.C.
 4216 North Hermitage
 Chicago, IL 60613

USER NAME = Scott Whitney	DESIGNED - PMM	REVISED -
	CHECKED - DAZ	REVISED -
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PLOT DATE = 11/18/2011	CHECKED - PMM	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SECTIONS AT INLET
 STRUCTURE NO. 082-W313**

SHEET NO. 3 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	243
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				

BORING LOG SB-9 (Page 1)

Page 1 of 2

Kaskaskia
Engineering Group, LLC

SOIL BORING LOG

Date 6/10/10

ROUTE FAP 103 DESCRIPTION L 15 Bridge over I. 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E L T H S				B L O C K S				U C S				M O I S T				
				ft	(ft)	(/ft)	(%)	ft	(ft)	(/ft)	(%)	ft	(ft)	(/ft)	(%)	ft	(ft)	(/ft)	(%)	
TOPSOIL - 12 inches				457.5																
FILL: Brown, clayey silt, trace crushed rock (A-4)				455.5	2			3				25								
FILL: Brown, silty clay (A-7)				455.5	1			2	0.8			26								
SILTY CLAY: Brown and gray (A-6)				453.3	2			3												
Becomes gray and brown					1			2												
Becomes brown					2			3	1.2			26								
SILTY CLAY: Brown (A-7)				455.8	2			3	0.7			25								
SILTY CLAY: Brown and grayish brown (A-6)				450.8	2			3	0.3			23								

The Unclassified Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

BORING LOG SB-9 (Page 2)

Page 2 of 2

Kaskaskia
Engineering Group, LLC

SOIL BORING LOG

Date 6/10/10

ROUTE FAP 103 DESCRIPTION L 15 Bridge over I. 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	D E L T H S				B L O C K S				U C S				M O I S T				
				ft	(ft)	(/ft)	(%)	ft	(ft)	(/ft)	(%)	ft	(ft)	(/ft)	(%)	ft	(ft)	(/ft)	(%)	
SILTY CLAY: Brown (A-7) (continued)				427.0																
SILT: Brown (A-4)					6			8	2.7			26								
Becomes dark brown and clayey					5			7	2.3			24								
CLAY: Gray, some sand (A-7)				416.8	4			6	2.2			21								
SILTY SAND: Grayish brown and dark brown, fine, trace to some organics, trace gravel (A-2)				412.0	4			11	0.1			24								
WEATHERED LIMESTONE: Gray (End of Boring)				389.8	14			50	11			24								

The Unclassified Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NO. 082-W313
SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	244
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

BORING LOG SB-10 (Page 1)

Page 1 of 2

Kaskaskia
Engineering Group, LLC

SOIL BORING LOG

Date 5/19/11

ROUTE FAP 103 DESCRIPTION L 15 over L 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	082-0051/0052	D	B	U	M	Surface Water Elev.	ft	D	B	U	M	
Station	710+71.52	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O	
BORING NO.	SB-10	P	L	S	I	Groundwater Elev.:	ft	P	L	S	I	
Station	710+71.52	T	O	Q	T	First Encounter	ft	T	O	W	S	
Offset	1.1 ft RT	H	S	Qu	T	Upon Completion	ft	H	S	Qu	T	
Ground Surface Elev.	464.77	ft	(ft)	(/ft)	(tsf)	Alter	Hrs.	ft	(ft)	(/ft)	(tsf)	(%)
TOPSOIL - 2 inches						CLAY: Gray and brown (A-7)						
SLT: Brown, with coal seam, trace organics (A-4)						Trace fine sand						
CLAYEY SLT: Brown (A-4)						SILTY CLAY: Gray (A-6)						
CLAY: Brown and reddish brown, trace organics (A-7)						CLAY: Brown (A-7)						
SILTY CLAY: Gray, with iron stains and nodules, trace roots (A-6)						CLAY: Reddish brown (A-7)						
CLAY: Reddish brown (A-7)						SILTY CLAY: Brown (A-6)						
SILTY CLAY: Brown (A-6)						SILTY CLAY: Gray (A-6)						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

BORING LOG SB-10 (Page 2)

Page 2 of 2

Kaskaskia
Engineering Group, LLC

SOIL BORING LOG

Date 5/19/11

ROUTE FAP 103 DESCRIPTION L 15 over L 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	082-0051/0052	D	B	U	M	Surface Water Elev.	ft	D	B	U	M	
Station	710+71.52	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O	
BORING NO.	SB-10	P	L	S	I	Groundwater Elev.:	ft	P	L	S	I	
Station	710+71.52	T	O	Q	T	First Encounter	ft	T	O	W	S	
Offset	1.1 ft RT	H	S	Qu	T	Upon Completion	ft	H	S	Qu	T	
Ground Surface Elev.	464.77	ft	(ft)	(/ft)	(tsf)	Alter	Hrs.	ft	(ft)	(/ft)	(tsf)	(%)
CLAYEY SLT: Dark brown (A-4)						CLAY: Greenish gray (A-7)						
SILTY CLAY: Gray, trace fine sand (A-6)						SILTY CLAY: Gray, trace fine sand (A-6)						
SILTY SAND: Dark gray (A-3)						CLAY: Greenish gray (A-7)						
WEATHERED LIMESTONE						End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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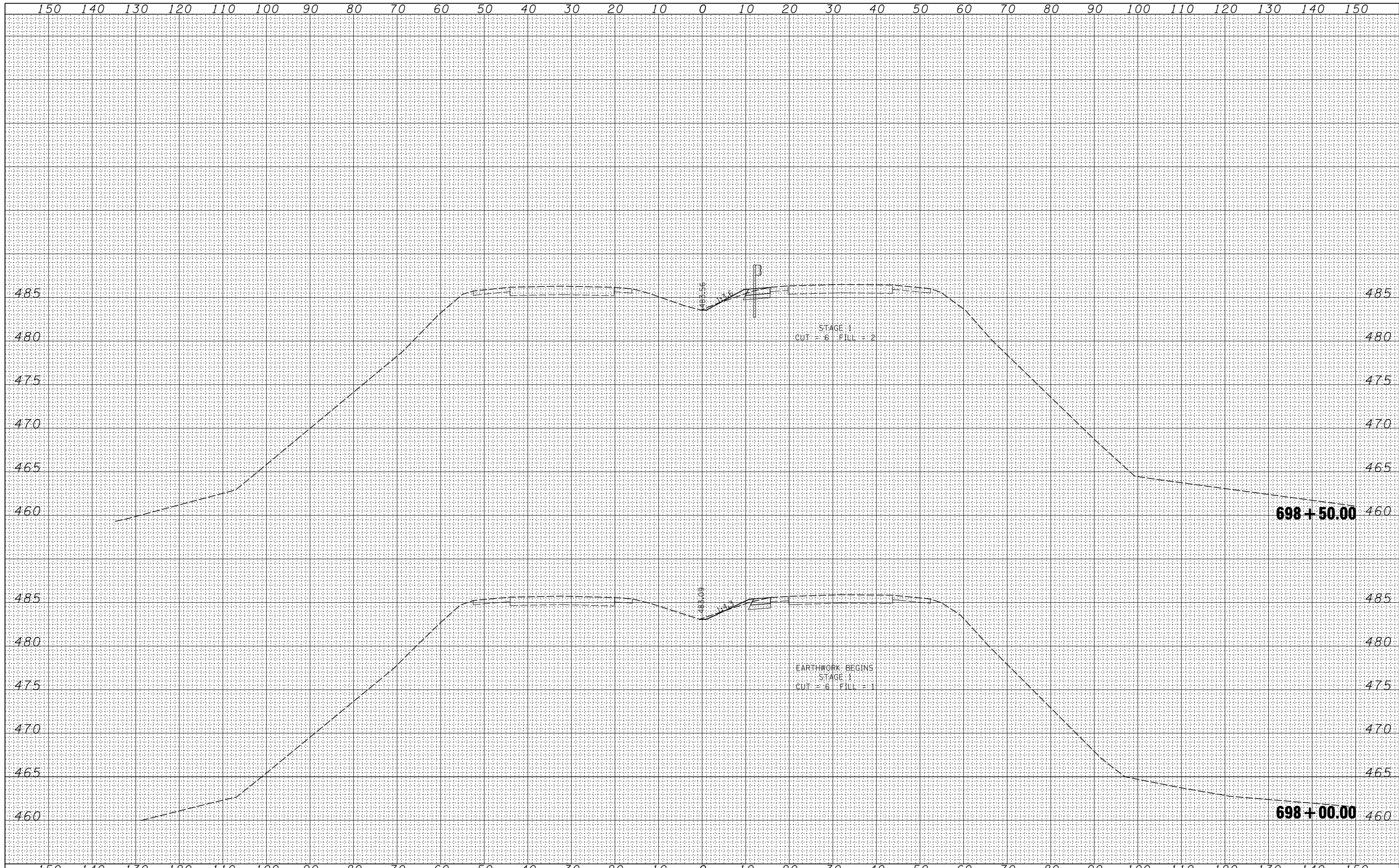


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
STRUCTURE NO. 082-W313
SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	245
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



BY	DATE
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NOTE BOOK	PLOTTED
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BY	DATE
ORIGINAL SURVEY	SURVEYED
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	AREAS CHECKED

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

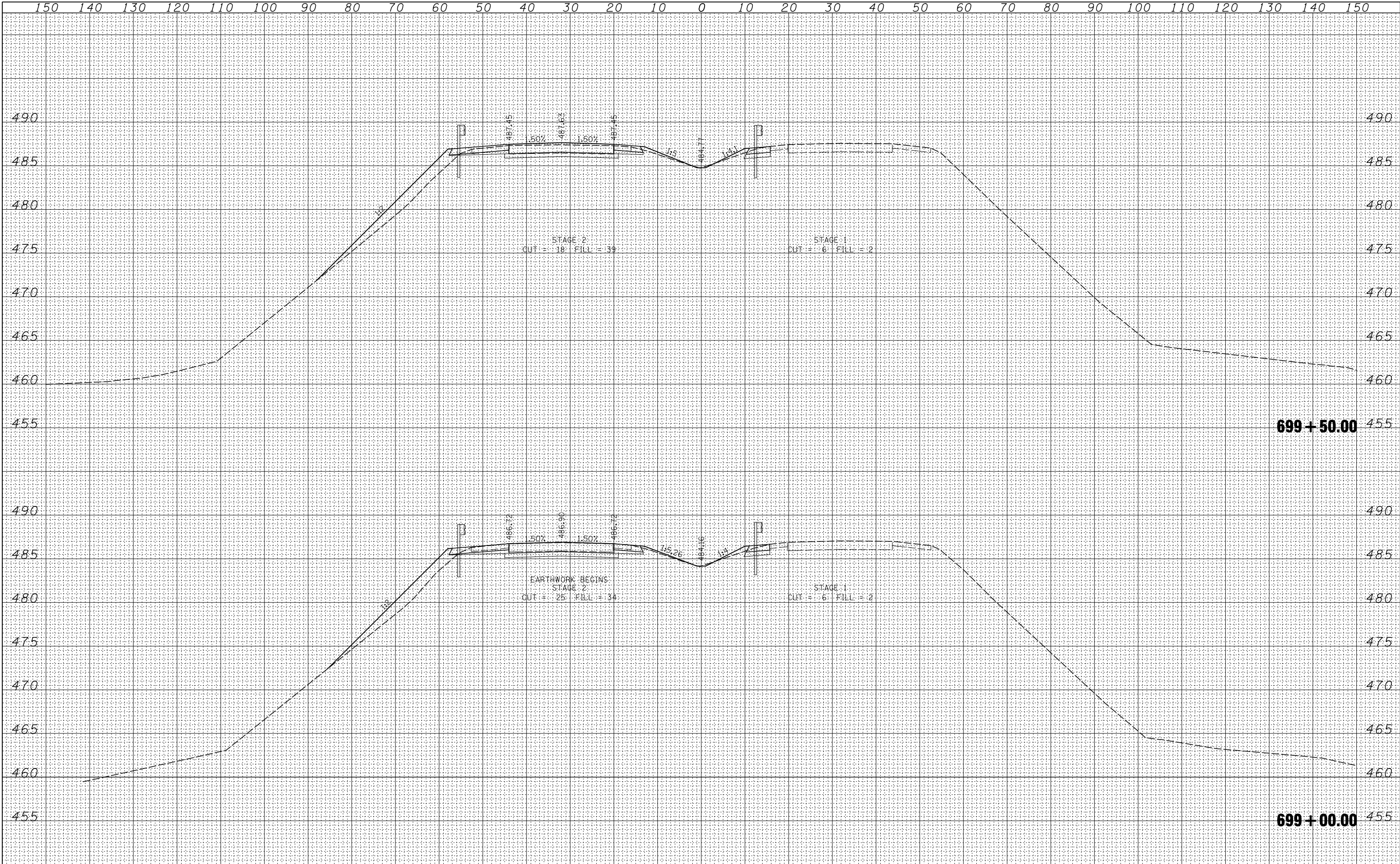
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	246
CONTRACT NO. 76884				ILLINOIS FED. AID PROJECT

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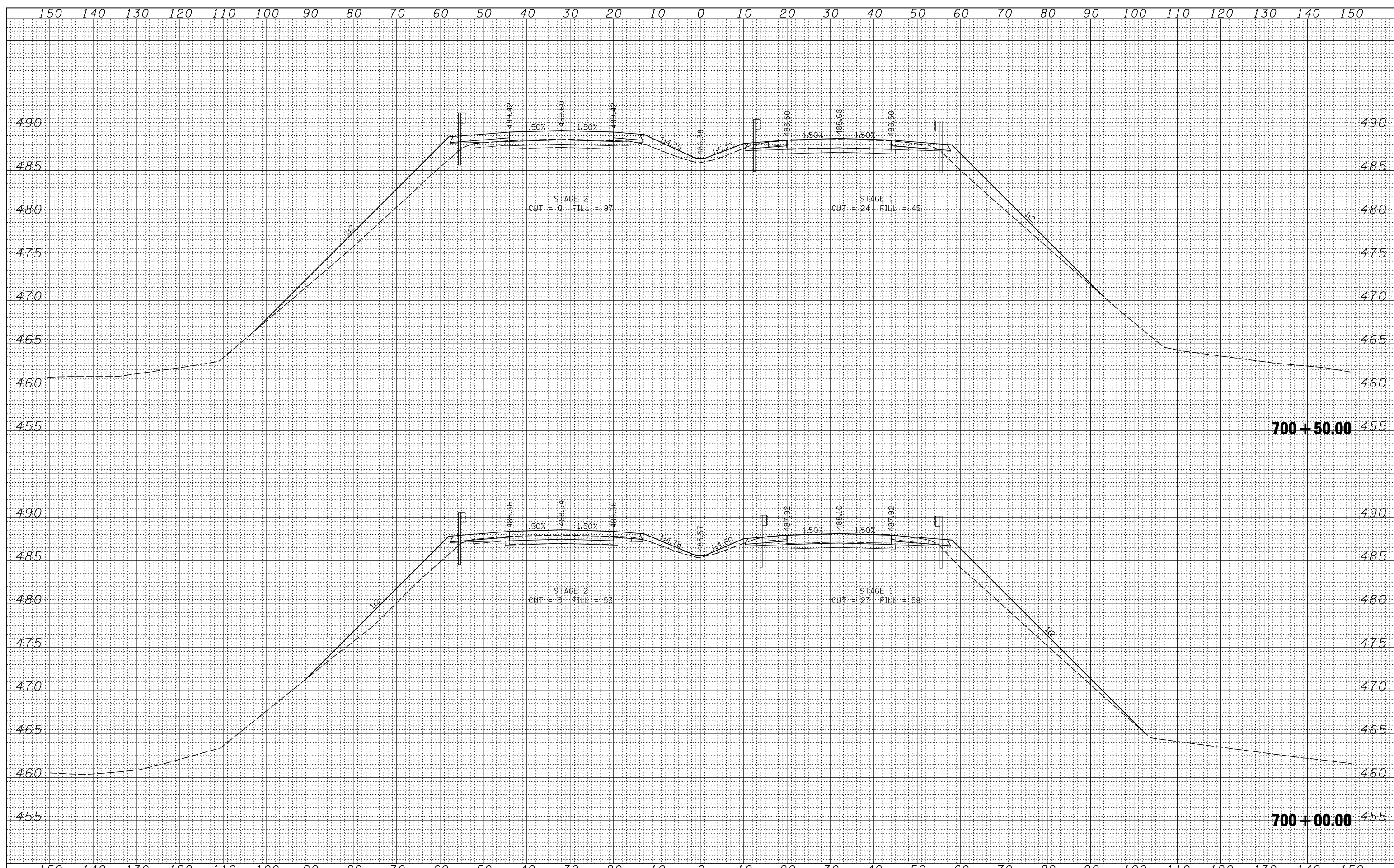
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	247
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				



BY	DATE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

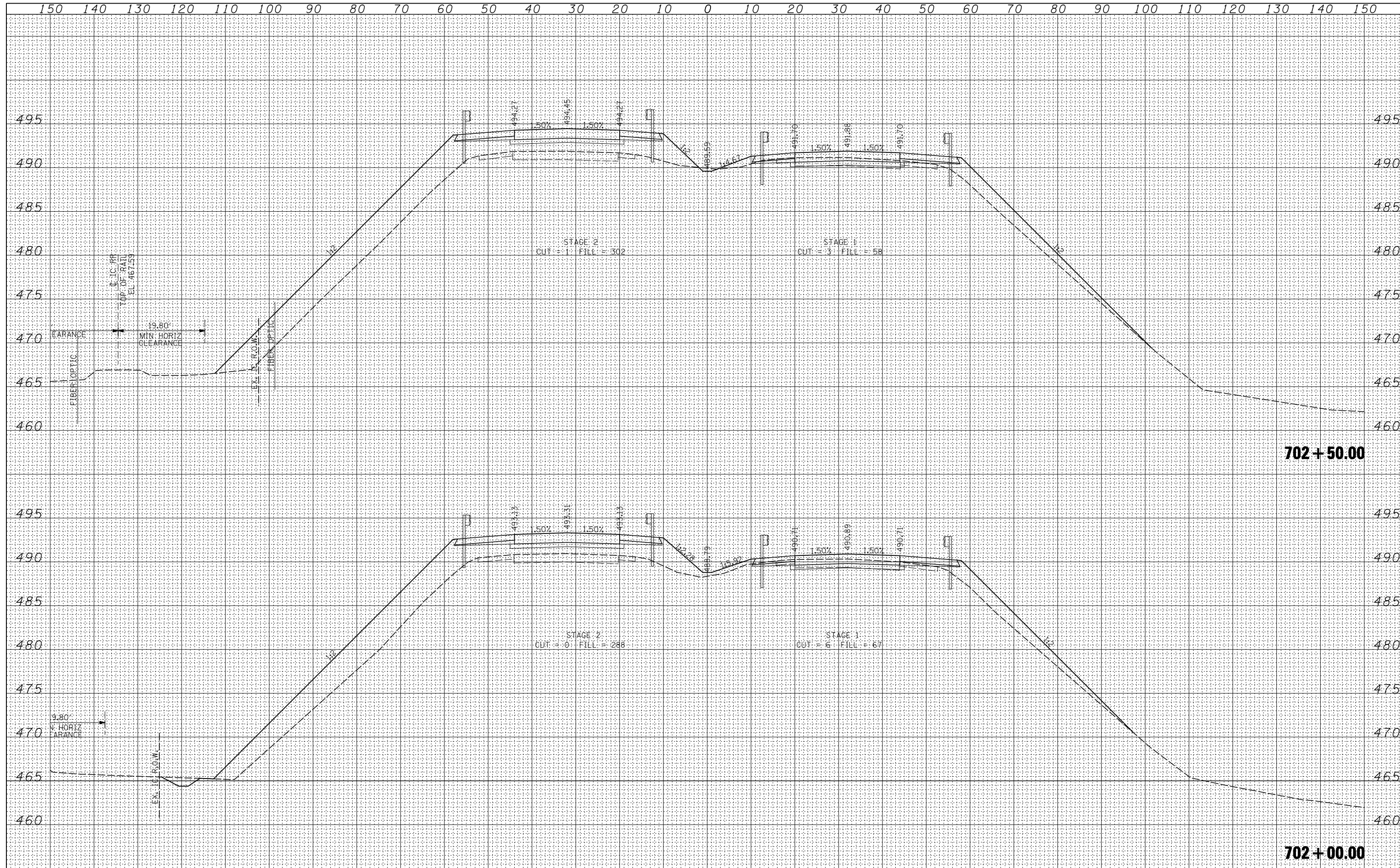
IL ROUTE 15 CROSS SECTIONS

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				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				

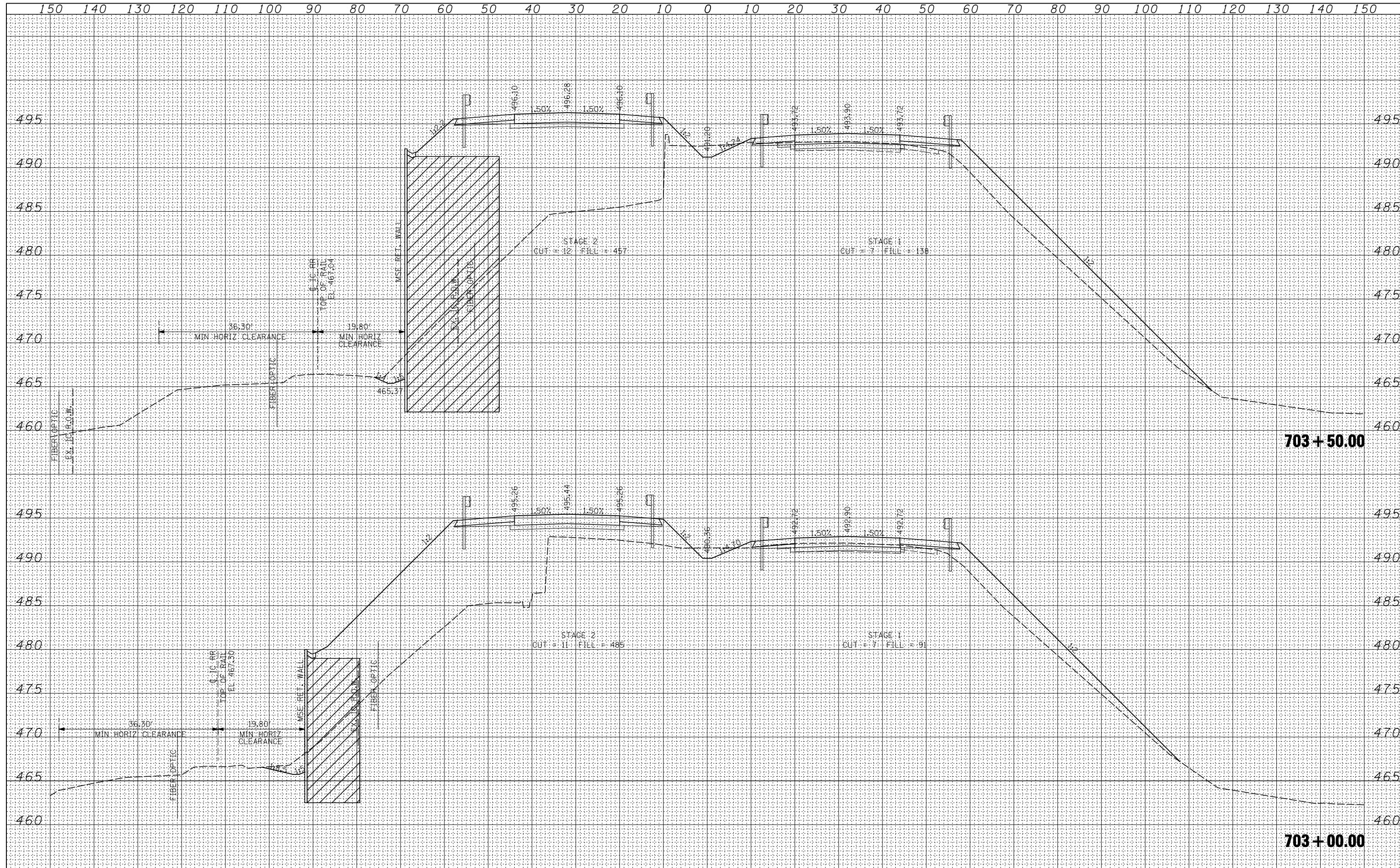
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NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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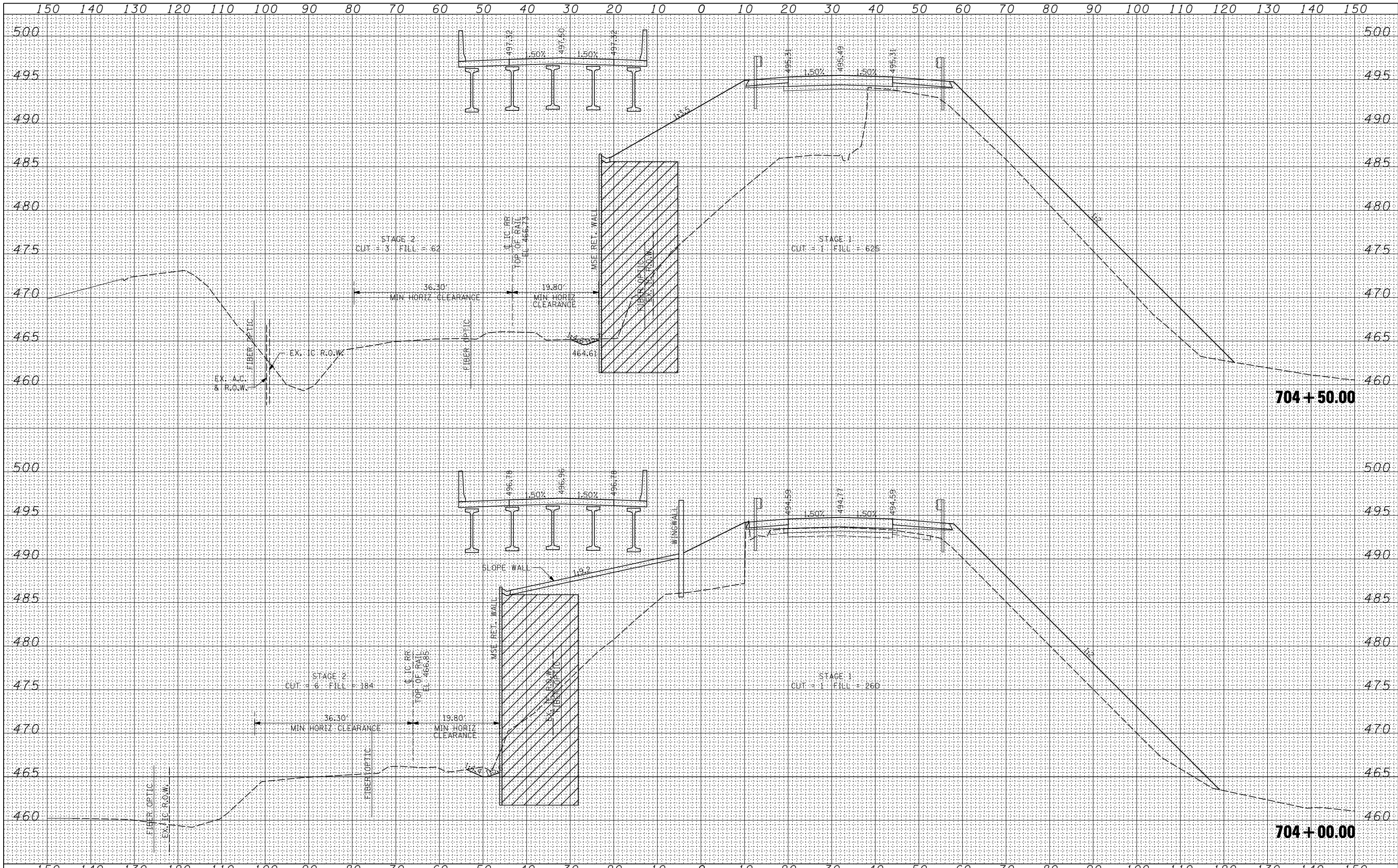
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	251
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	



DATE	
BY	
FINISHED SURVEY	
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NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

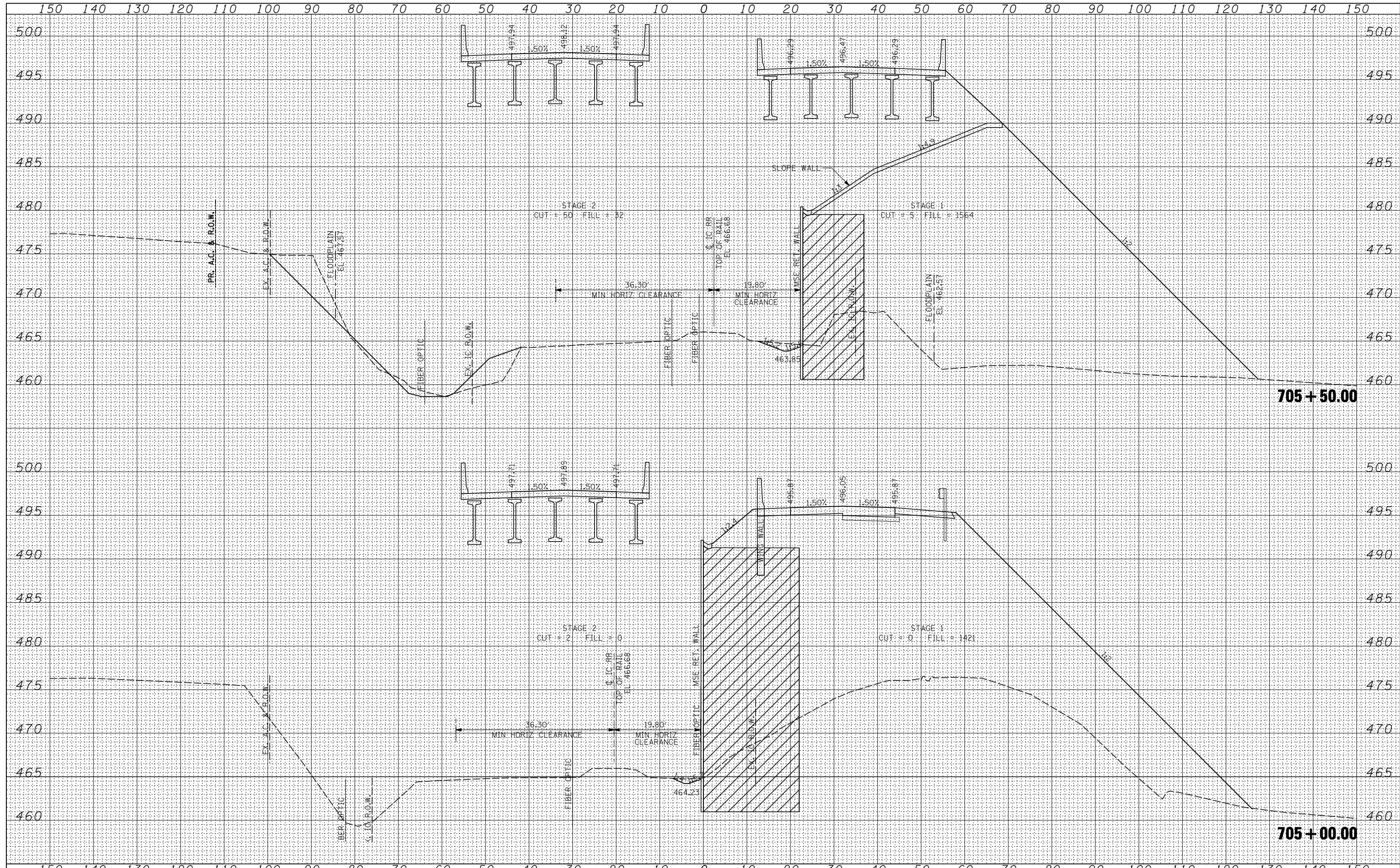
IL ROUTE 15 CROSS SECTIONS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	252
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				

DATE	
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NOTE BOOK	
AREAS CHECKED	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

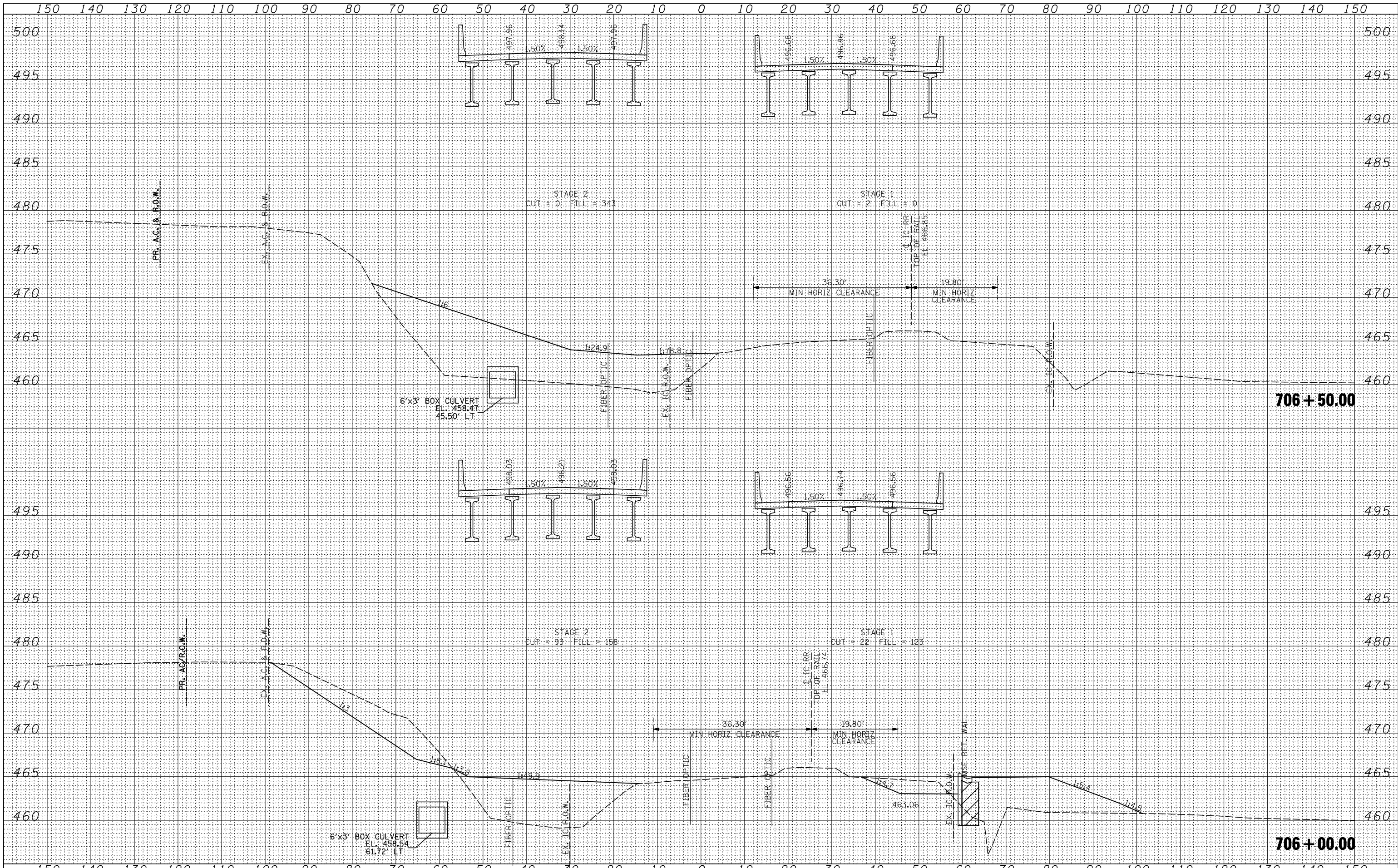
IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 8 OF 28 SHEETS STA. 705+00.00 TO STA. 705+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	253
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
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DATE	
BY	
NO.	
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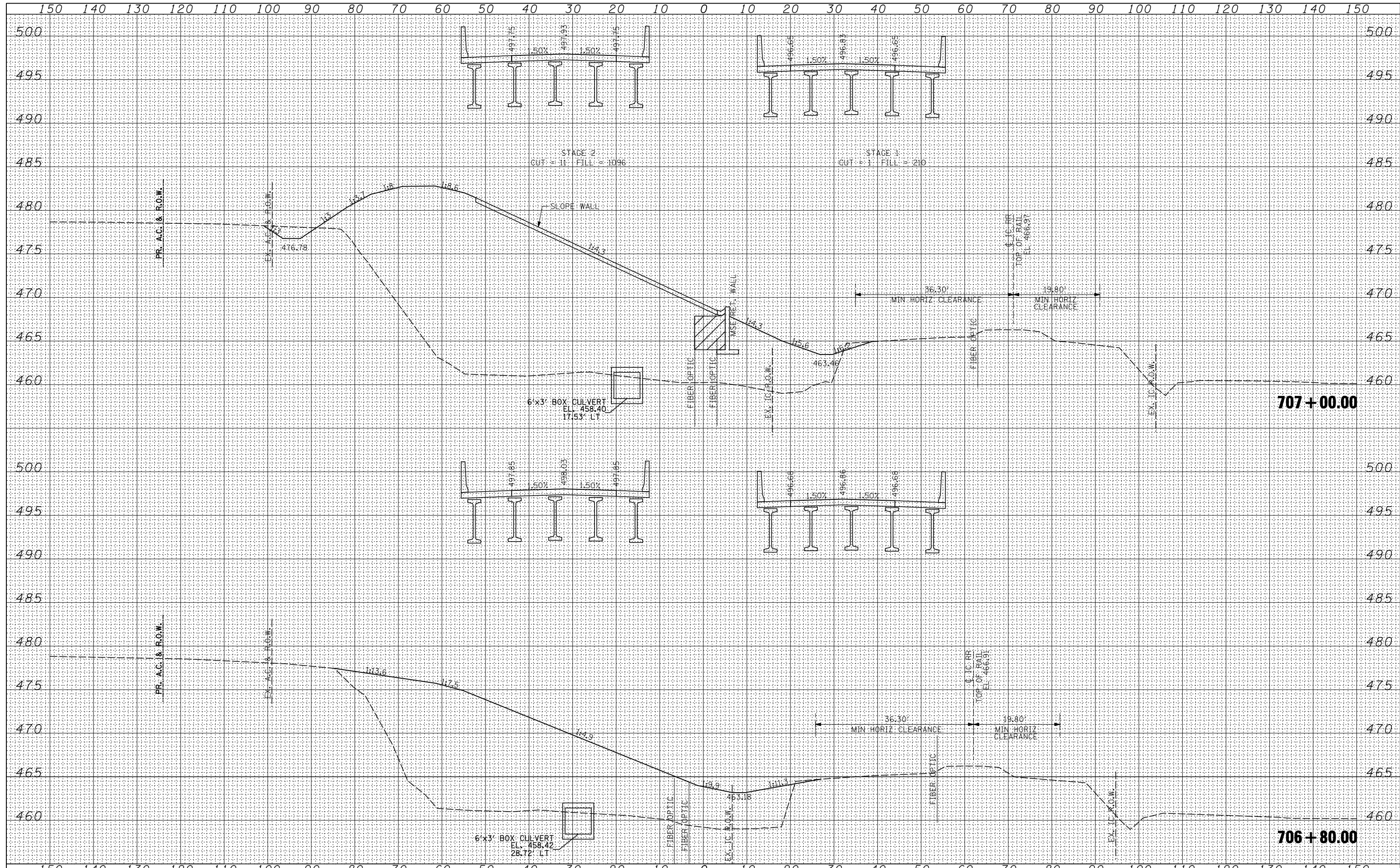
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS
SCALE: SHEET NO. 9 OF 28 SHEETS STA. 706+00.00 TO STA. 706+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	254
CONTRACT NO. 76884				

DATE	
BY	
SURVEYED	
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TEMPLATE	
NOTE BOOK	
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PLOT SCALE = 20.0000' / IN.	CHECKED - GC	REVISED -
PLOT DATE = 10/20/2011	DATE - 10-19-11	REVISED -

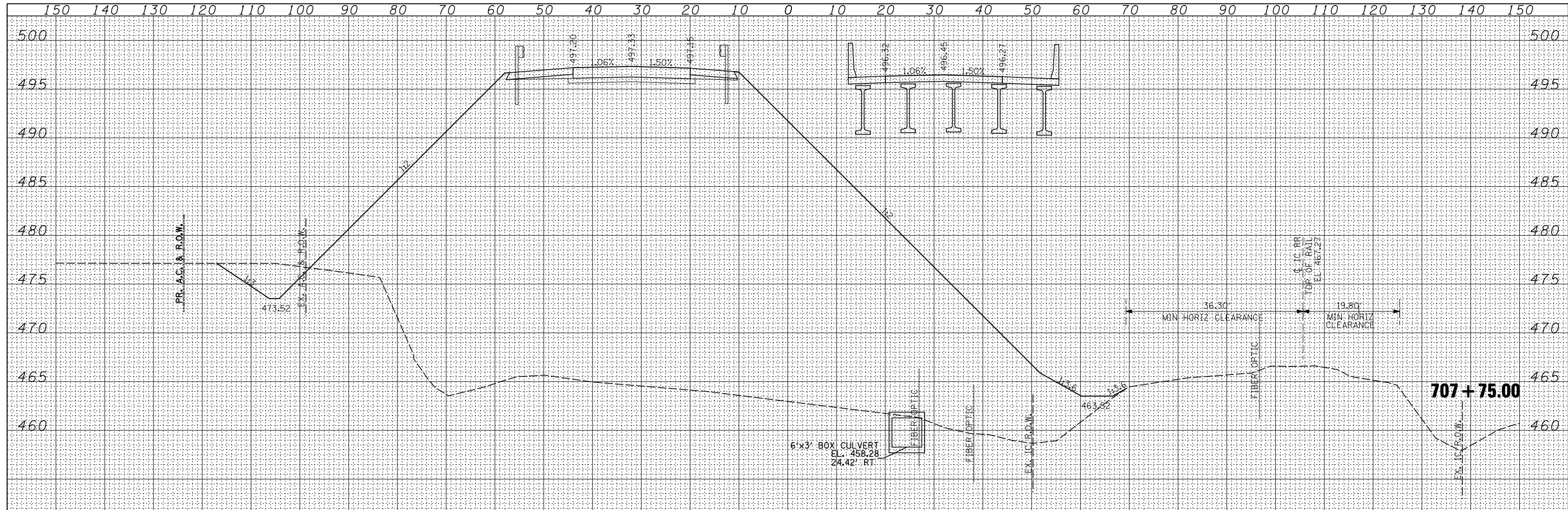
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

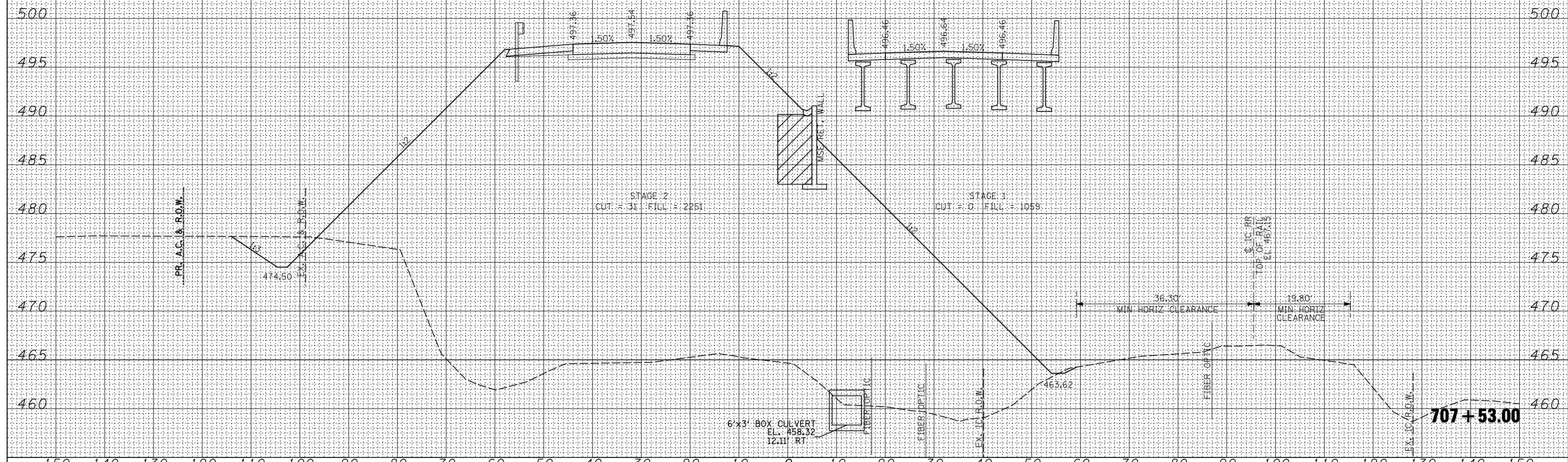
SCALE: SHEET NO. 10 OF 28 SHEETS STA. 706+80.00 TO STA. 707+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	255
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				

BY	DATE



BY	DATE



FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd
 DESIGNED - RDT
 DRAWN - RDT
 CHECKED - GC
 DATE - 10-19-11

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 15 CROSS SECTIONS

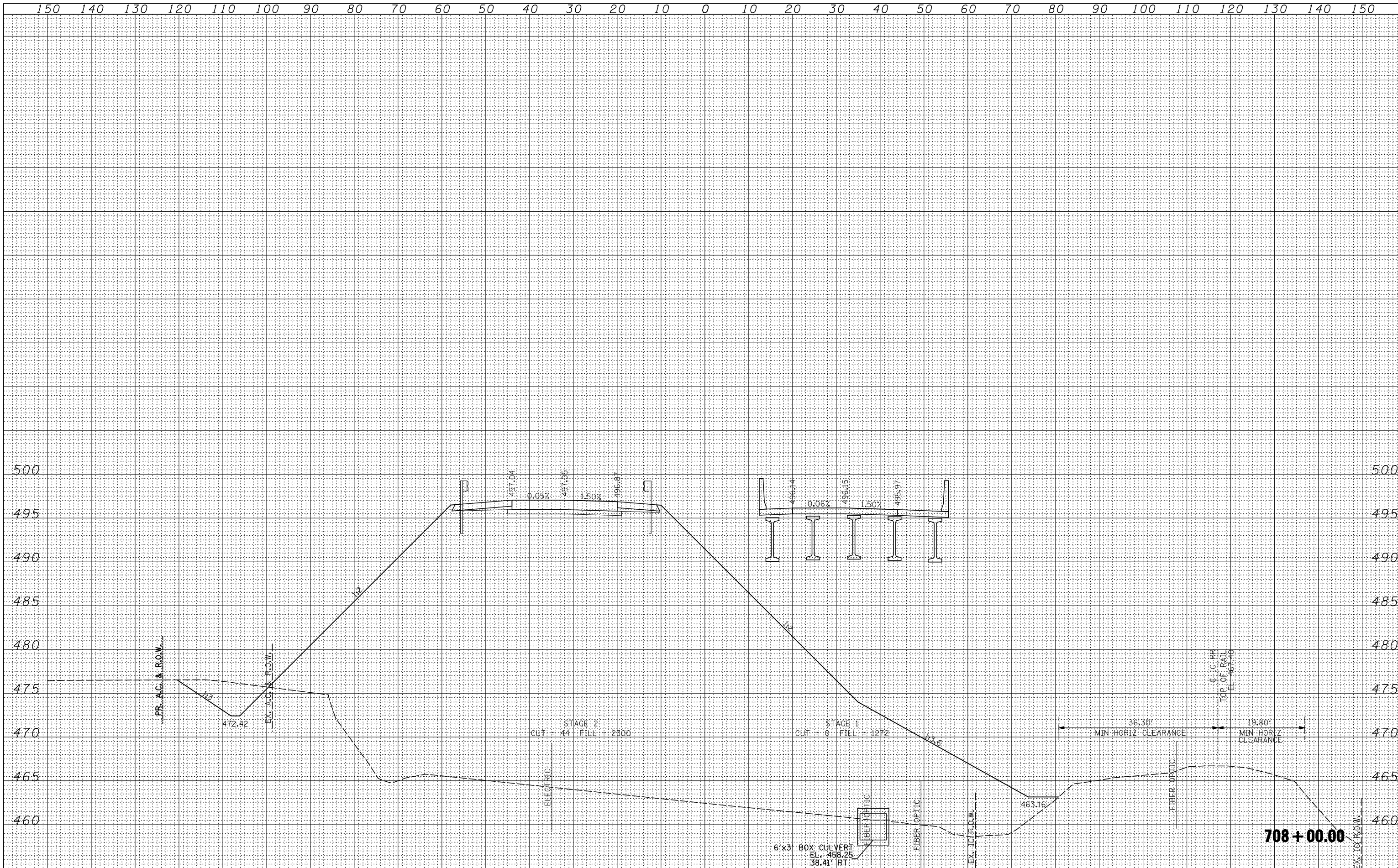
SCALE: SHEET NO. 12 OF 28 SHEETS STA. 707+50.00 TO STA. 707+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	257
CONTRACT NO. 76884				

ILLINOIS FED. AID PROJECT

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

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



FILE NAME = D876884-IL15-sht-xssht.dgn
 USER NAME = thompasrd
 DESIGNED - RDT
 DRAWN - RDT
 CHECKED - GC
 DATE - 10-19-11
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 10/20/2011

DESIGNED - RDT	REVISED -
DRAWN - RDT	REVISED -
CHECKED - GC	REVISED -
DATE - 10-19-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

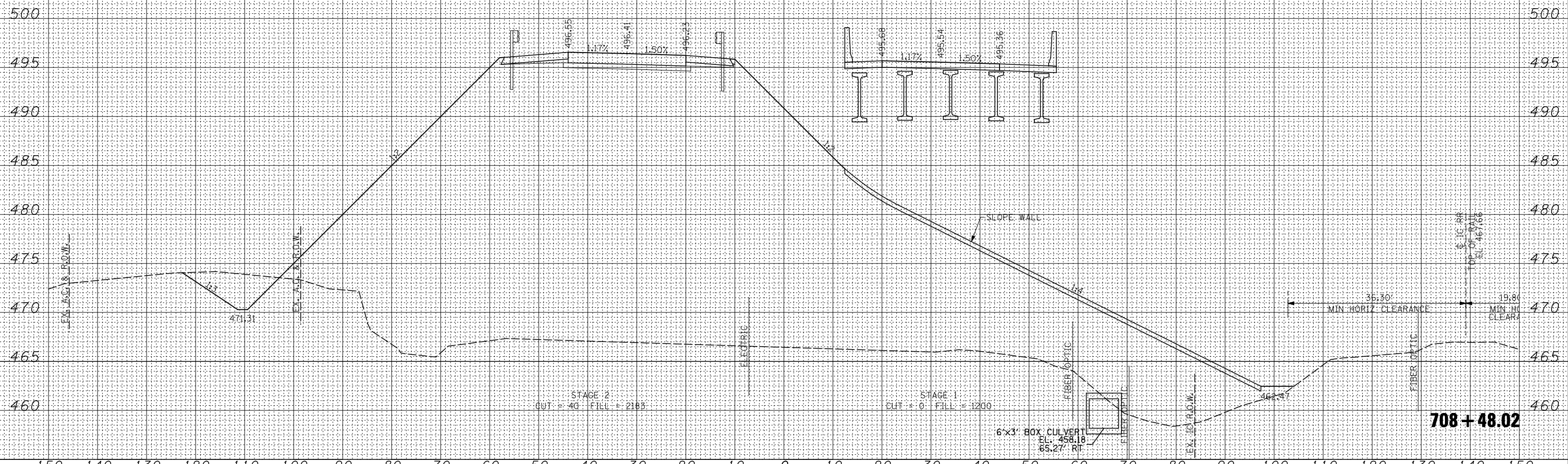
IL ROUTE 15 CROSS SECTIONS
 SCALE: SHEET NO. 13 OF 28 SHEETS STA. 708+00.00 TO STA. 708+18.84

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	258
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY NO.	SURVEYED AREAS CHECKED
DATE	
BY	
ORIGINAL SURVEY NO.	PLOTTED AREAS CHECKED
DATE	
BY	
FINAL SURVEY NO.	TEMPLATE AREAS CHECKED
DATE	
BY	
ORIGINAL SURVEY NO.	AREAS CHECKED
DATE	
BY	

FINAL SURVEY NO.	SURVEYED AREAS CHECKED
DATE	
BY	
ORIGINAL SURVEY NO.	PLOTTED AREAS CHECKED
DATE	
BY	
FINAL SURVEY NO.	TEMPLATE AREAS CHECKED
DATE	
BY	
ORIGINAL SURVEY NO.	AREAS CHECKED
DATE	
BY	



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME =	USER NAME = thompson	DESIGNED - RDT	REvised -
D876884-IL15-sht-xssht.dgn		DRAWN - RDT	REvised -
		CHECKED - GC	REvised -
		DATE - 10-19-11	REvised -

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PLOT DATE = 10/20/2011	DATE - 10-19-11	REvised -

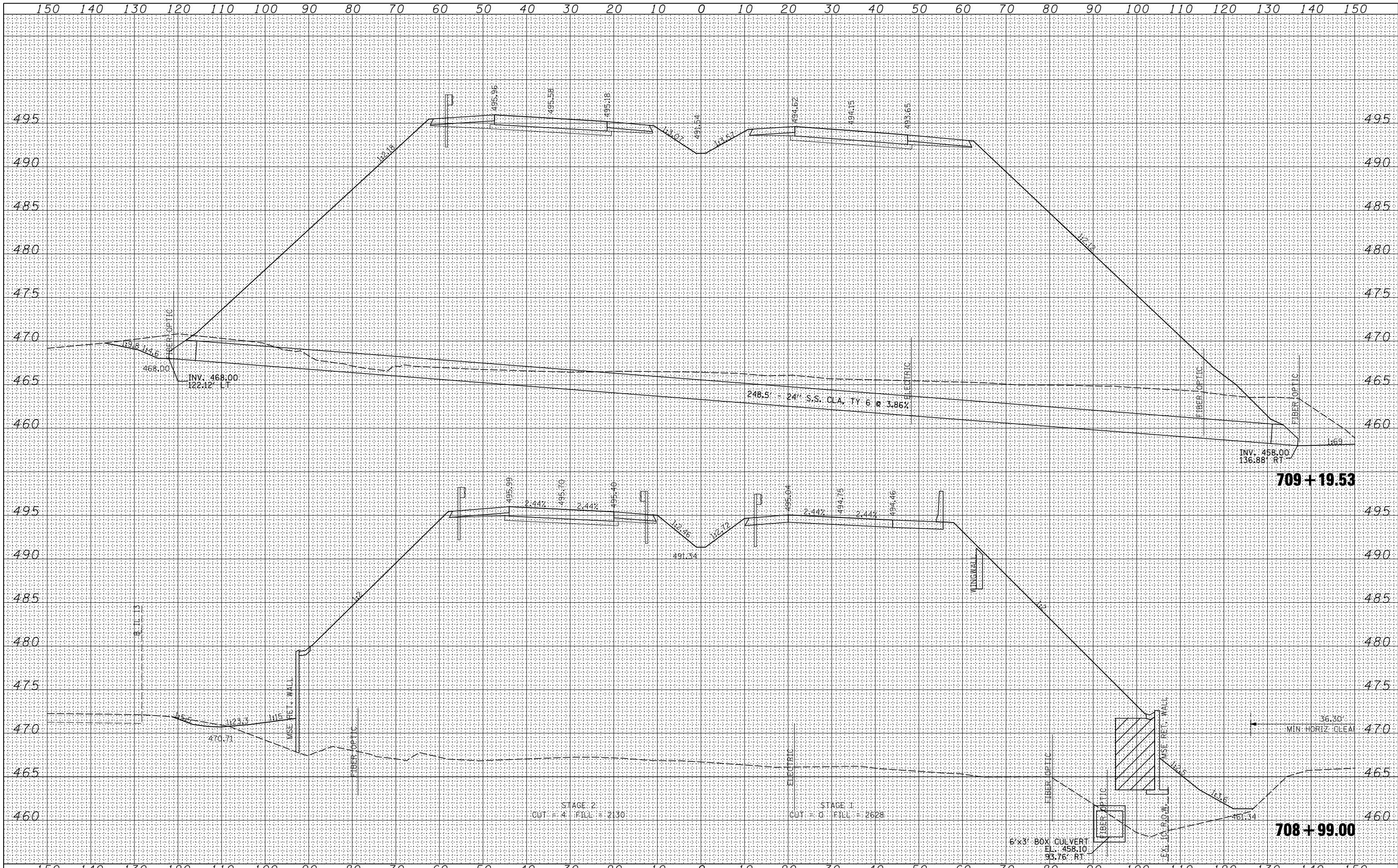
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 14 OF 28 SHEETS STA. 708+36.70 TO STA. 708+50.00

F.A.P. RTE. 103	SECTION 27-1-VHB-1	COUNTY ST. CLAIR	TOTAL SHEETS 277	SHEET NO. 259
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				

708+48.02



BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

BY	DATE
ORIGINAL	
AREAS	
CHECKED	
NO.	

FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd	DESIGNED - RDT	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RDT	REVISED -
PLOT DATE = 10/20/2011	CHECKED - GC	REVISED -
	DATE - 10-19-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

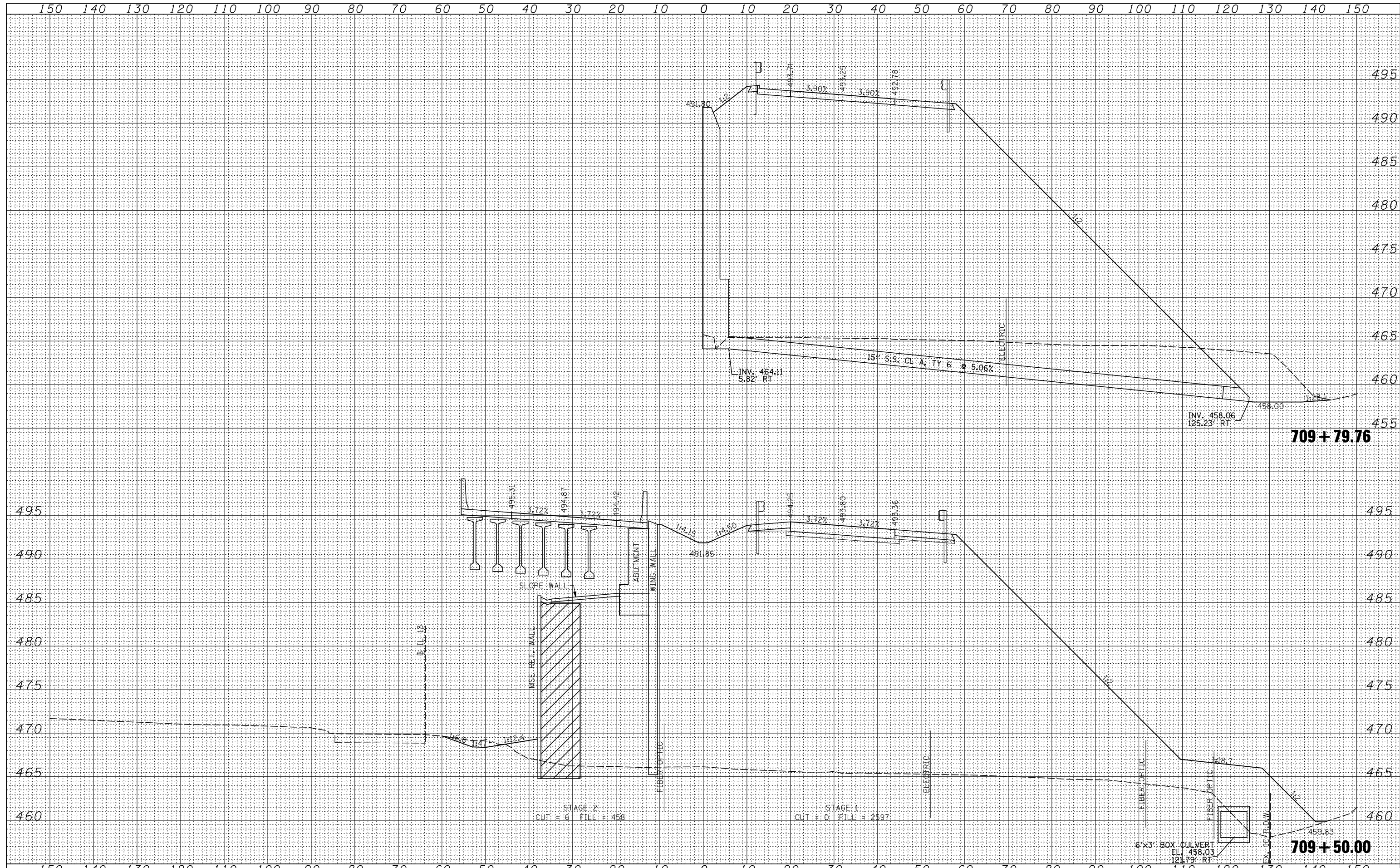
IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 15 OF 28 SHEETS STA. 709+00.00 TO STA. 709+19.53

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	260
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

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

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



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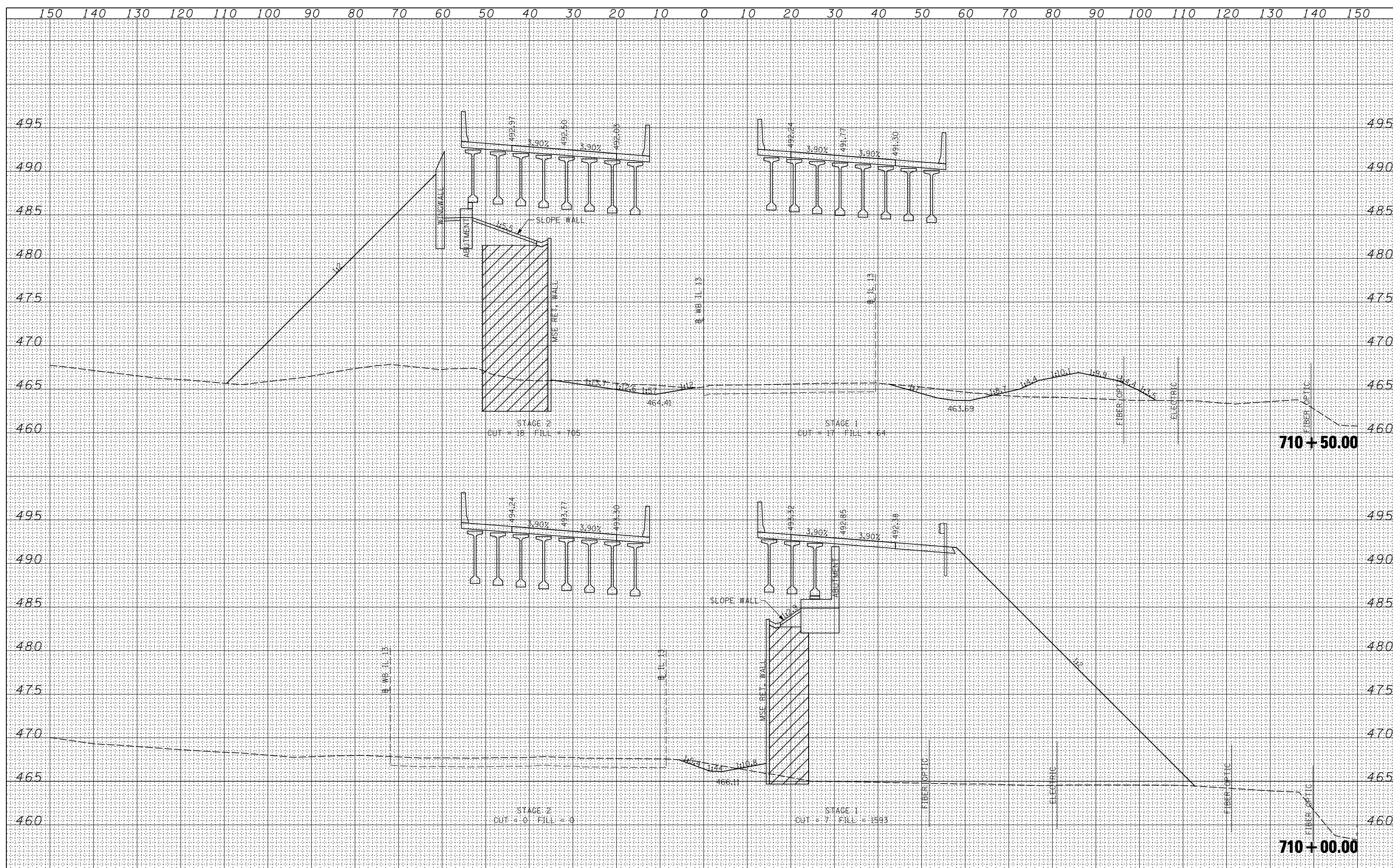
USER NAME = thompard	DESIGNED - RDT	REVISED -
	DRAWN - RDT	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - GC	REVISED -
PLOT DATE = 10/20/2011	DATE - 10-19-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

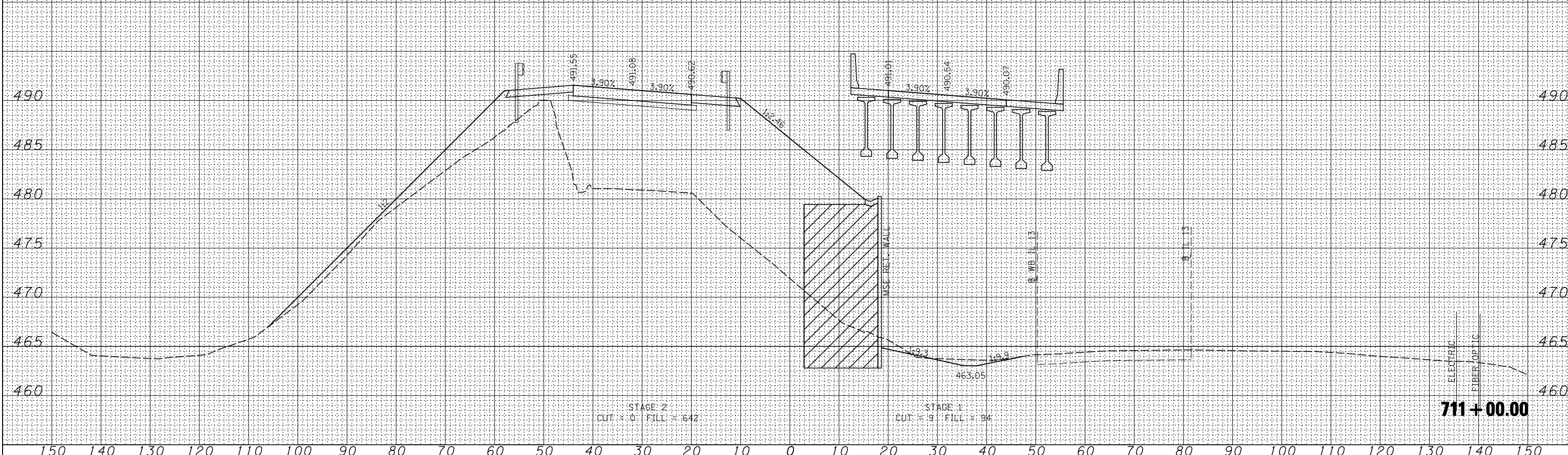
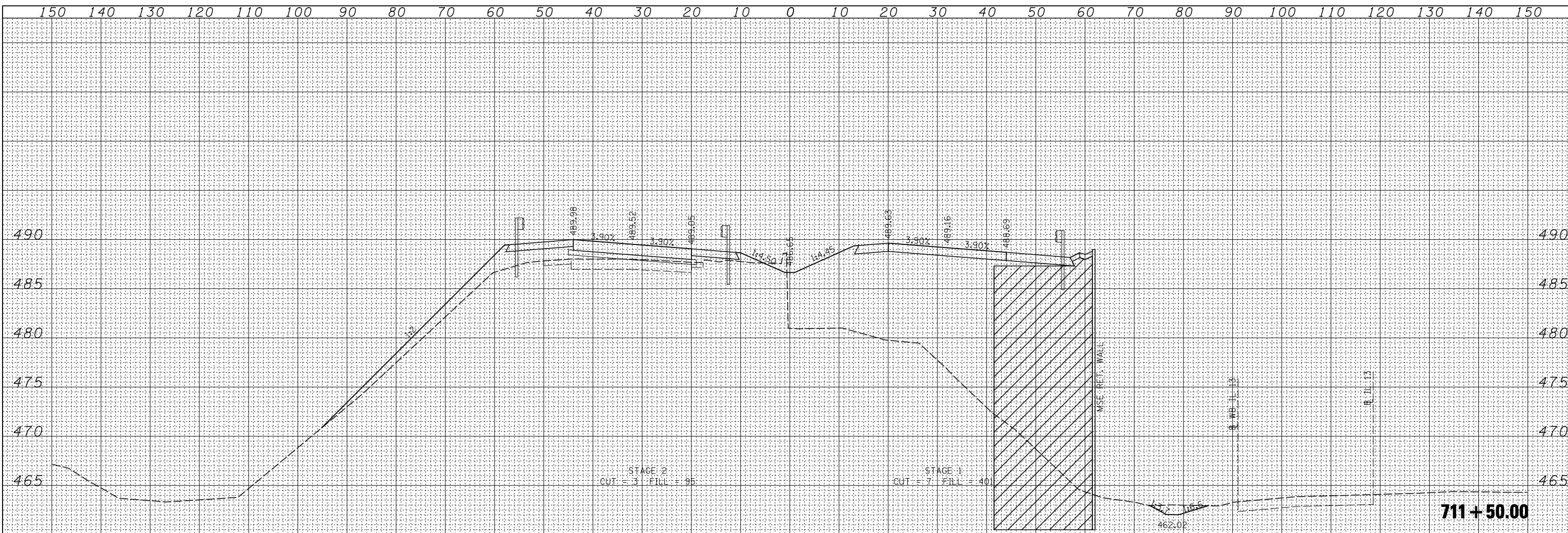
SCALE: SHEET NO. 16 OF 28 SHEETS STA. 709+50.00 TO STA. 709+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	261
CONTRACT NO. 76884				
ILLINOIS FED. AID PROJECT				



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

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



BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 10/20/2011

DESIGNED - RDT
 DRAWN - RDT
 CHECKED - GC
 DATE - 10-19-11

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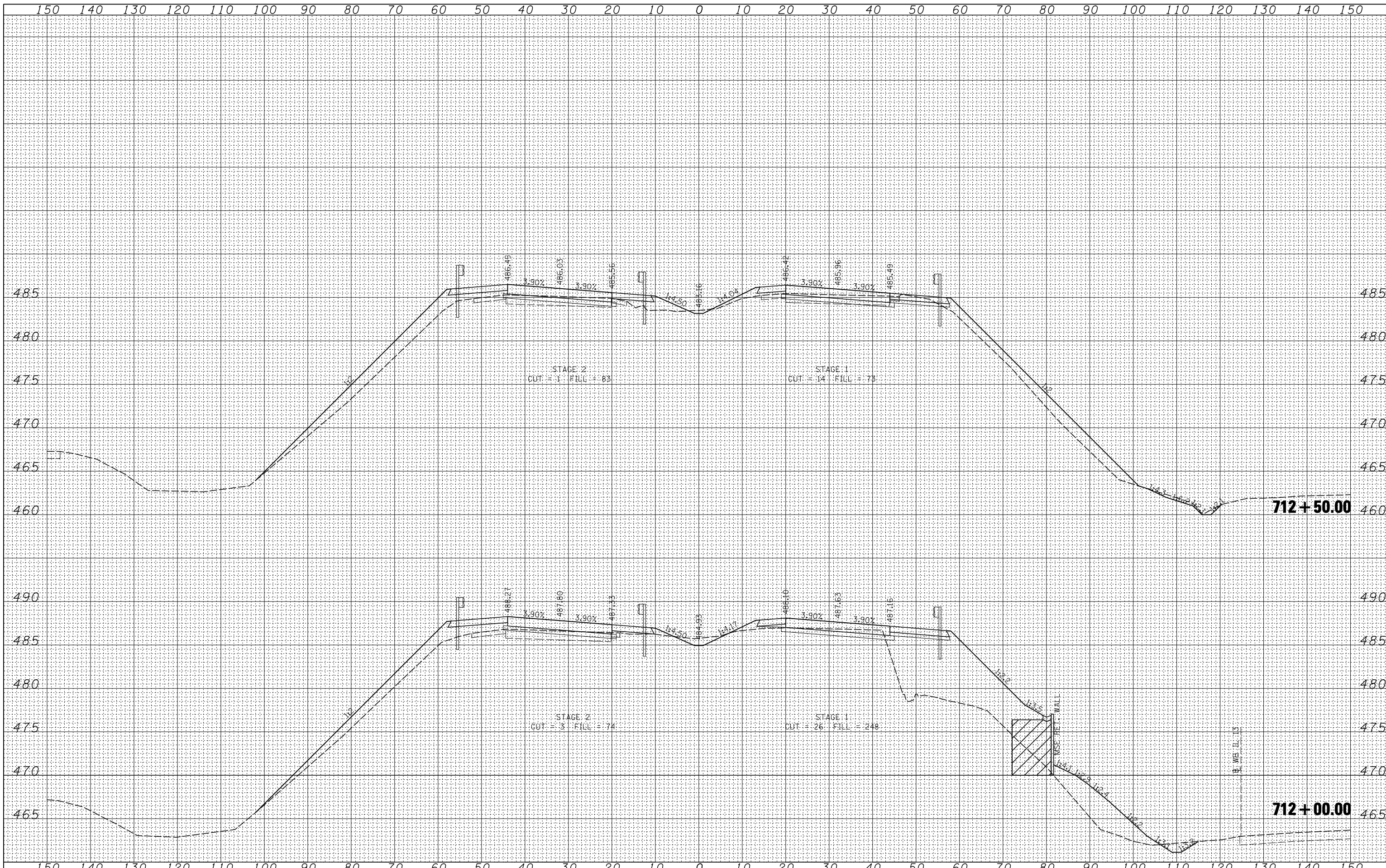
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS
 SCALE: SHEET NO. 18 OF 28 SHEETS STA. 711+00.00 TO STA. 711+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	263
CONTRACT NO. 76884			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME =
D876884-IL15-sht-xssht.dgn

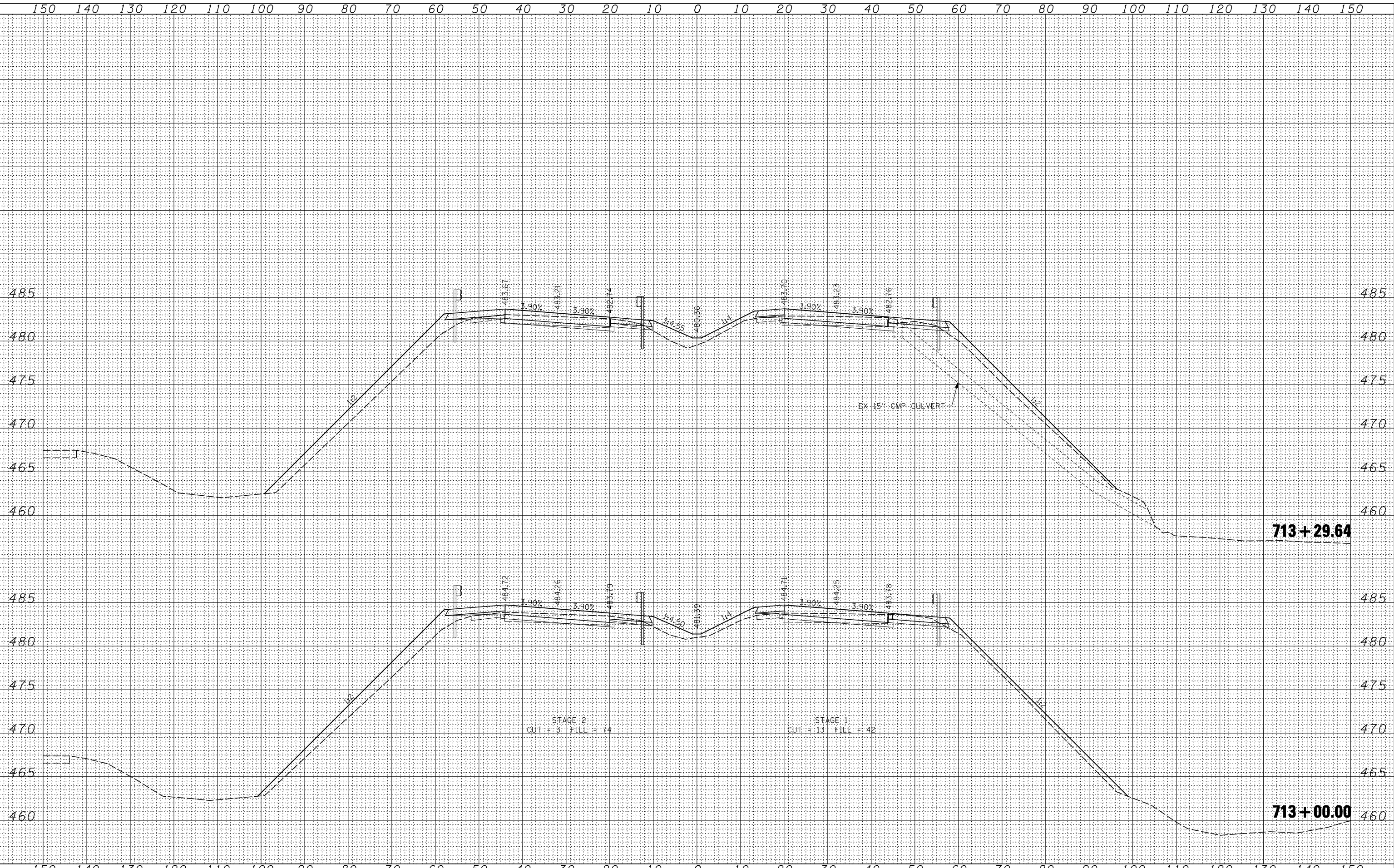
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PLOT DATE = 10/20/2011	DATE - 10-19-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 19 OF 28 SHEETS STA. 712+00.00 TO STA. 712+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	264
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				



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

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

FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompson	DESIGNED - RDT	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RDT	REVISED -
PLOT DATE = 10/20/2011	CHECKED - GC	REVISED -
	DATE - 10-19-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

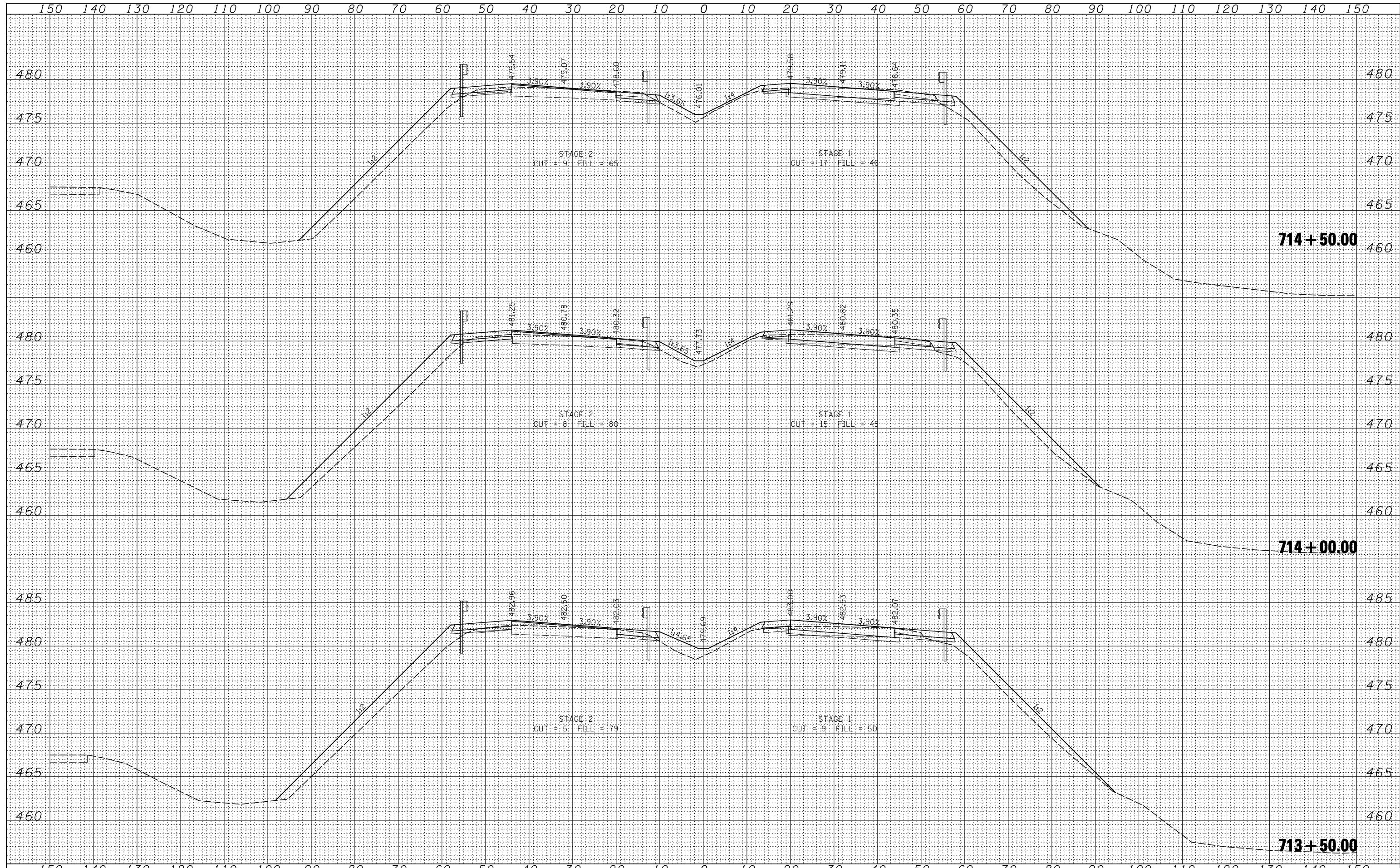
IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 20 OF 28 SHEETS STA. 713+00.00 TO STA. 713+29.64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	273	265
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd	DESIGNED - RDT	REVISED -
	DRAWN - RDT	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - GC	REVISED -
PLOT DATE = 10/20/2011	DATE - 10-19-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

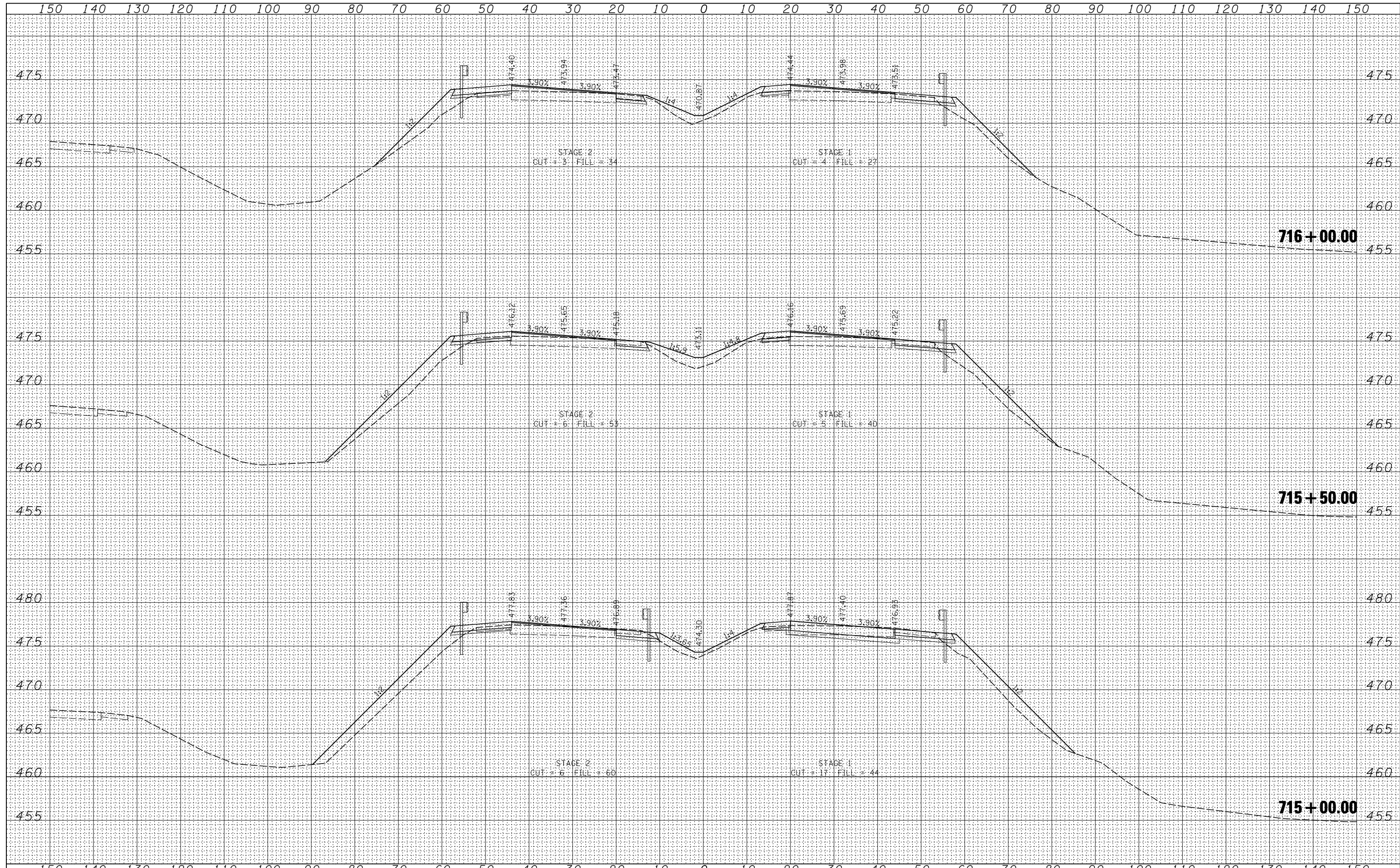
IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 21 OF 28 SHEETS STA. 713+50.00 TO STA. 714+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	266
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd	DESIGNED - RDT	REVISED -
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PLOT SCALE = 20.0000' / IN.	CHECKED - GC	REVISED -
PLOT DATE = 10/20/2011	DATE - 10-19-11	REVISED -

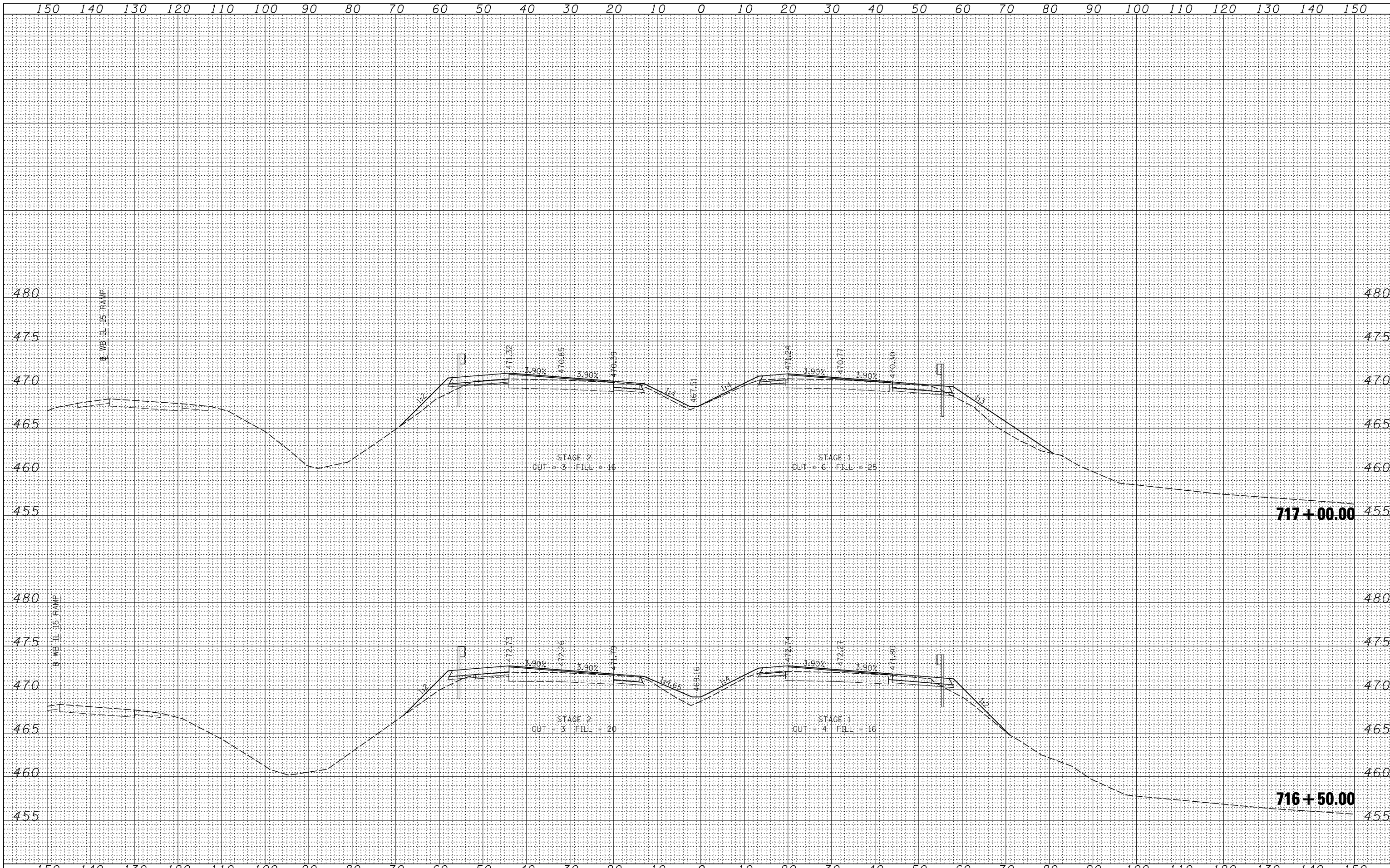
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 22 OF 28 SHEETS STA. 715+00.00 TO STA. 716+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	267
CONTRACT NO. 76884				

ILLINOIS FED. AID PROJECT



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

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED

FILE NAME = D876884-IL15-sht-xssht.dgn

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PLOT SCALE = 20.0000' / IN.	DRAWN - RDT	REVISED -
PLOT DATE = 10/20/2011	CHECKED - GC	REVISED -
	DATE - 10-19-11	REVISED -

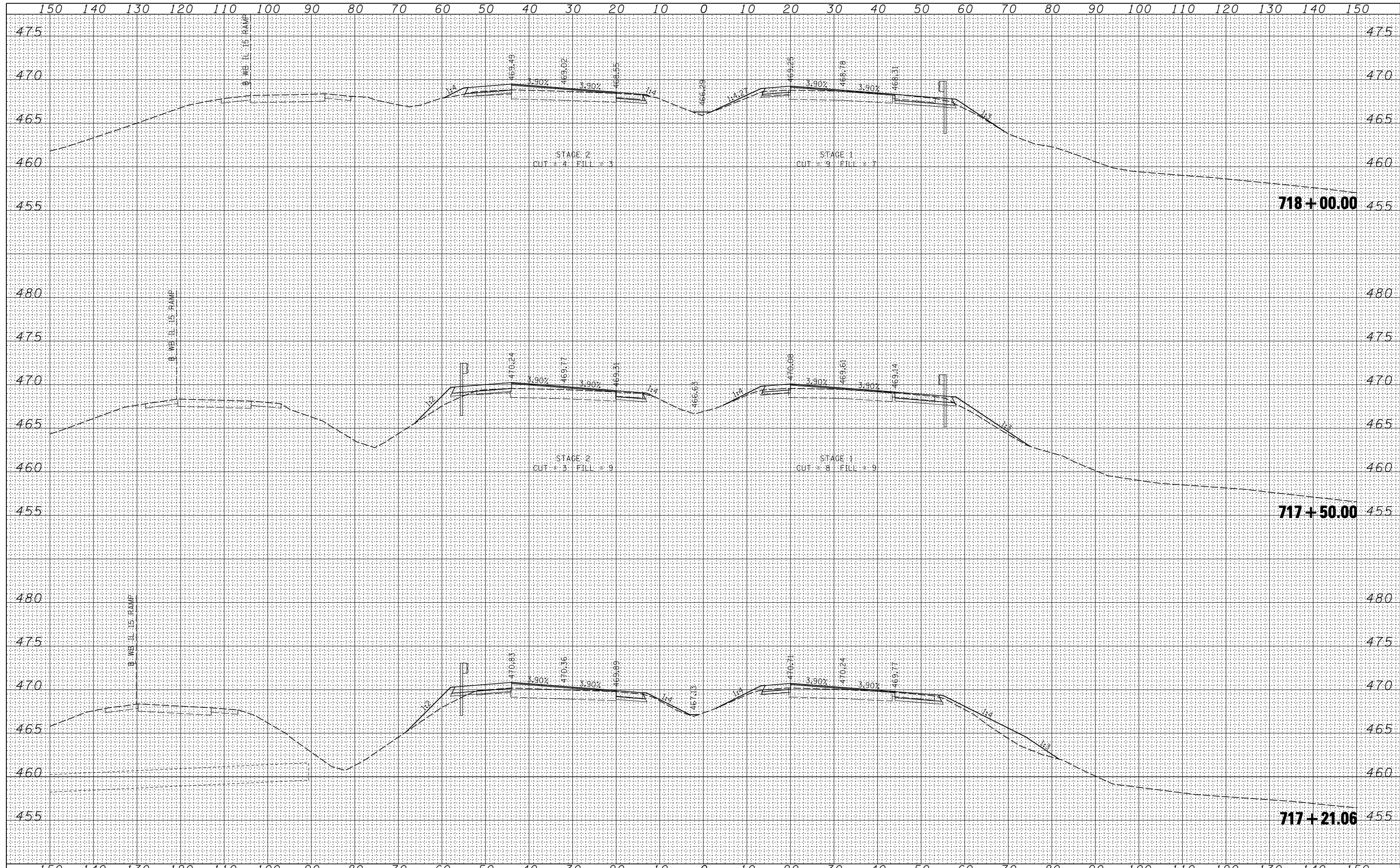
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS
SCALE: SHEET NO. 23 OF 28 SHEETS STA. 716+50.00 TO STA. 717+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	268
		CONTRACT NO. 76884		
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd
 DESIGNED - RDT
 DRAWN - RDT
 CHECKED - GC
 DATE - 10-19-11

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

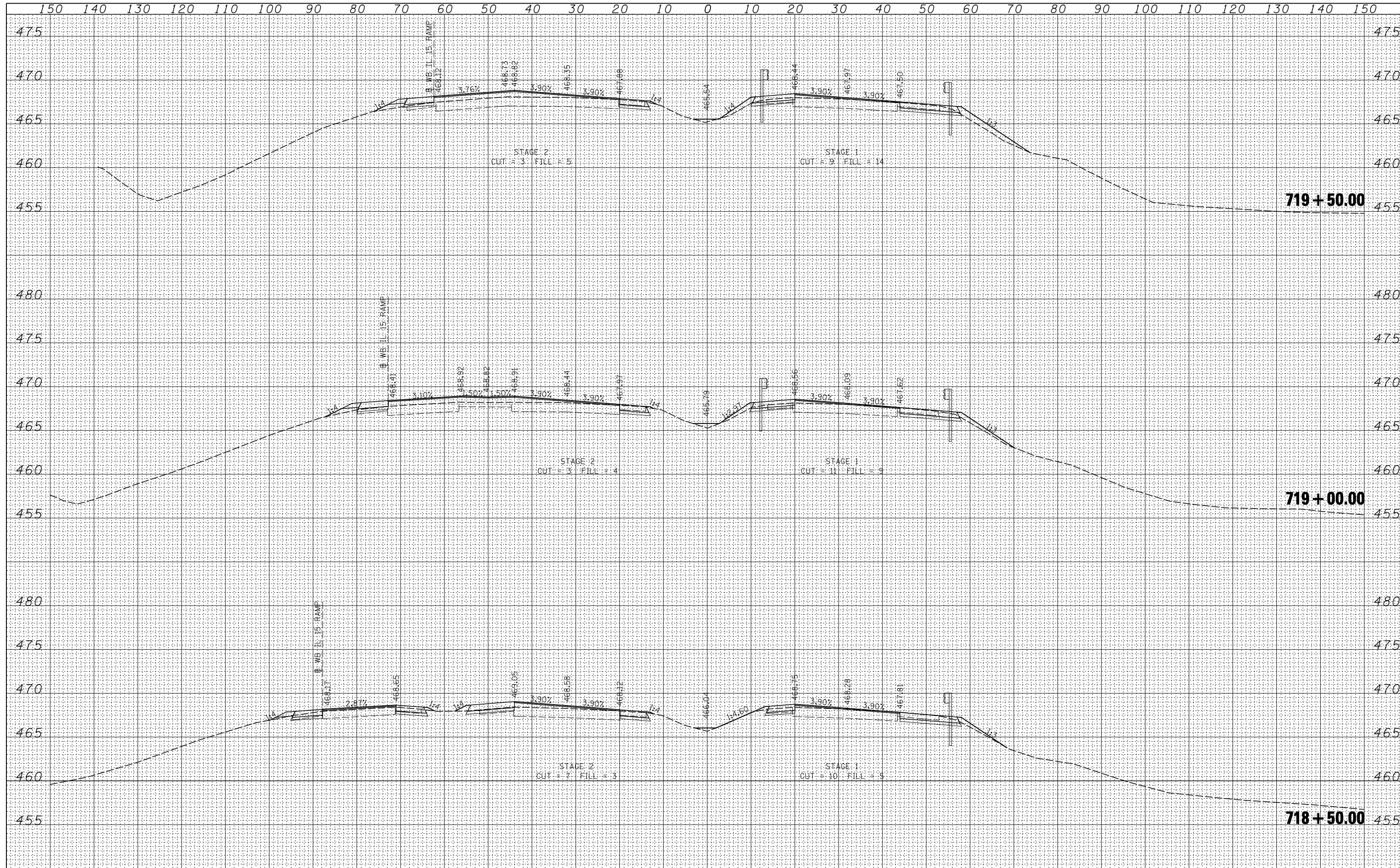
IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 24 OF 28 SHEETS STA. 717+21.06 TO STA. 718+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	269
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd	DESIGNED - RDT	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN - RDT	REVISED -
PLOT DATE = 10/20/2011	CHECKED - GC	REVISED -
	DATE - 10-19-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

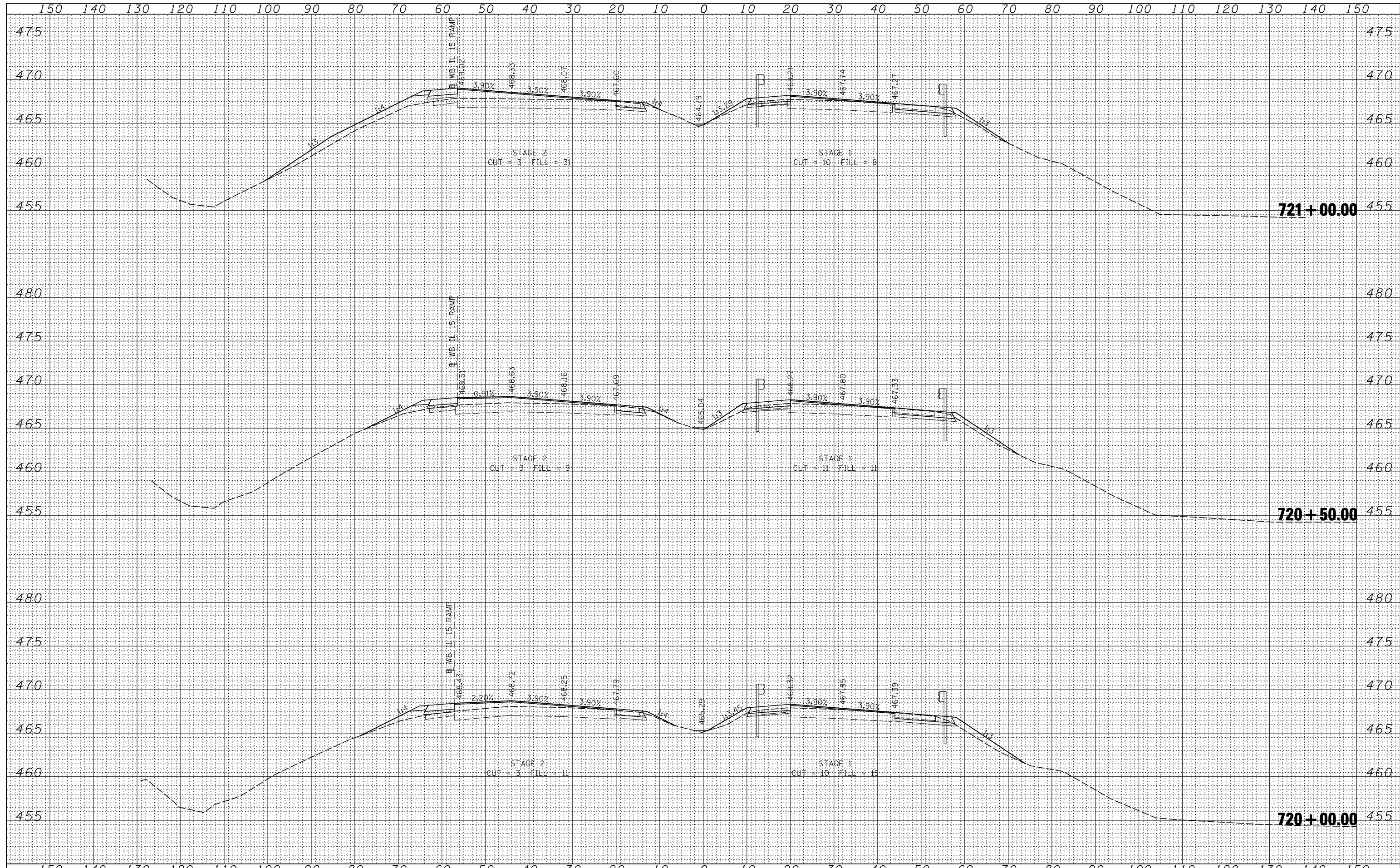
IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 25 OF 28 SHEETS STA. 718+50.00 TO STA. 719+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	270
				CONTRACT NO. 76884
ILLINOIS FED. AID PROJECT				

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

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

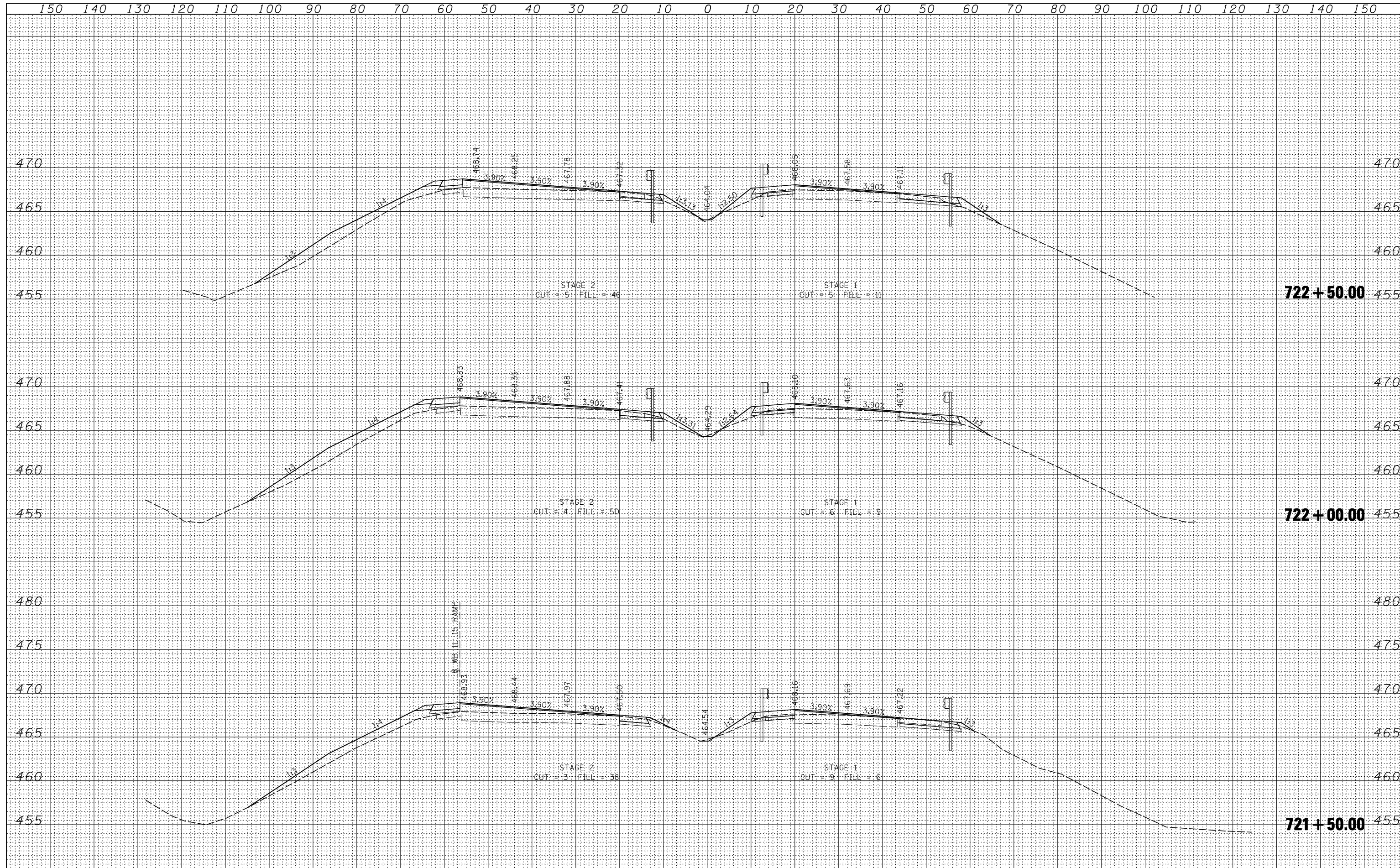


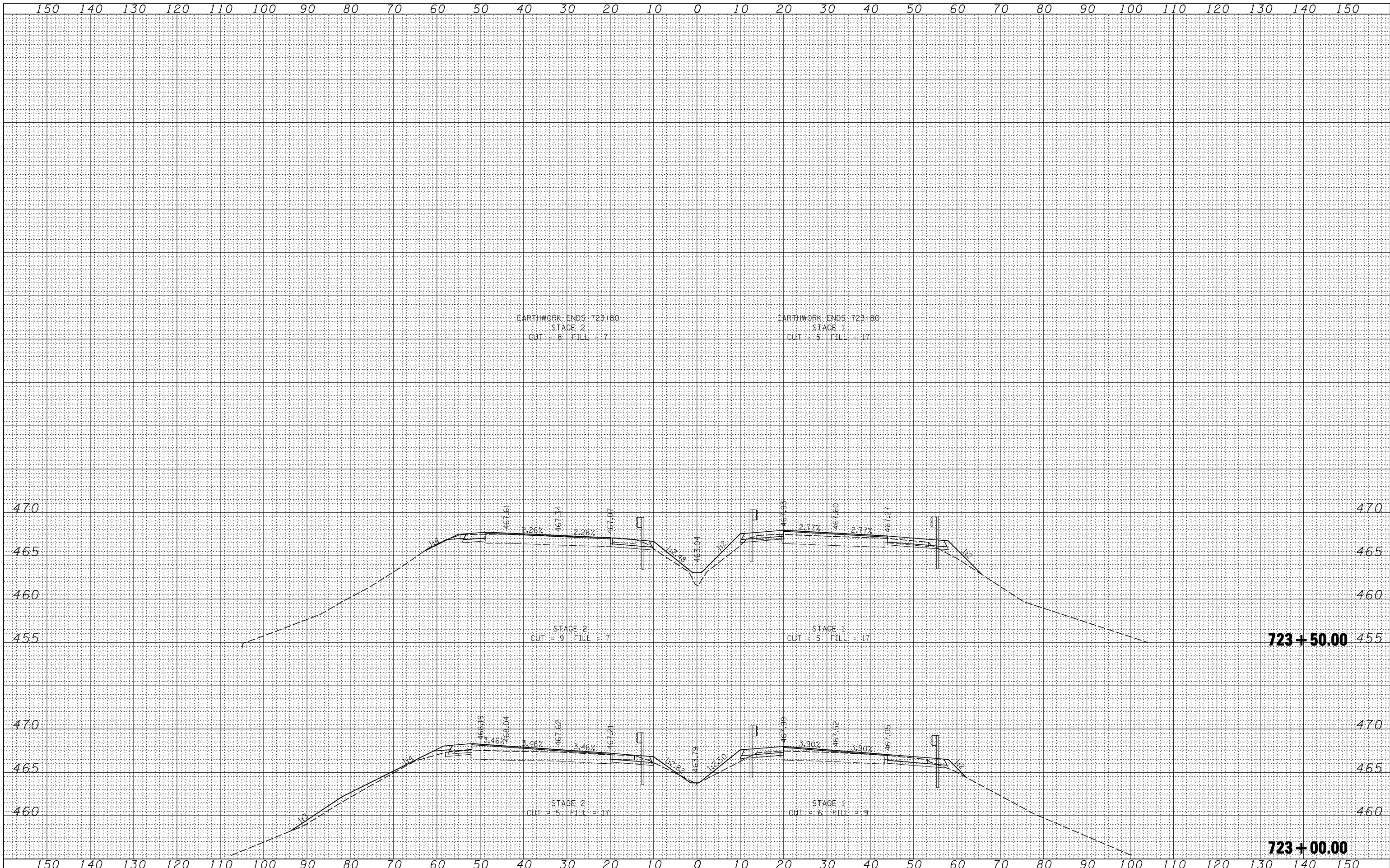
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D876884-IL15-sht-xssht.dgn		DRAWN - RDT	REVISED -			103	27-1-VHB-1	ST. CLAIR	277	271	
PLOT SCALE = 20.0000' / IN.		CHECKED - GC	REVISED -			CONTRACT NO. 76884					
PLOT DATE = 10/20/2011		DATE - 10-19-11	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET NO. 26 OF 28 SHEETS STA. 720+00.00 TO STA. 721+00.00

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

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





EARTHWORK ENDS 723+80
 STAGE 2
 CUT = 8 FILL = 7

EARTHWORK ENDS 723+80
 STAGE 1
 CUT = 5 FILL = 17

STAGE 2
 CUT = 9 FILL = 7

STAGE 1
 CUT = 5 FILL = 17

STAGE 2
 CUT = 5 FILL = 17

STAGE 1
 CUT = 6 FILL = 9

BY	DATE

BY	DATE

FILE NAME = D876884-IL15-sht-xssht.dgn

USER NAME = thompsrd
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 10/20/2011

DESIGNED - RDT
 DRAWN - RDT
 CHECKED - GC
 DATE - 10-19-11

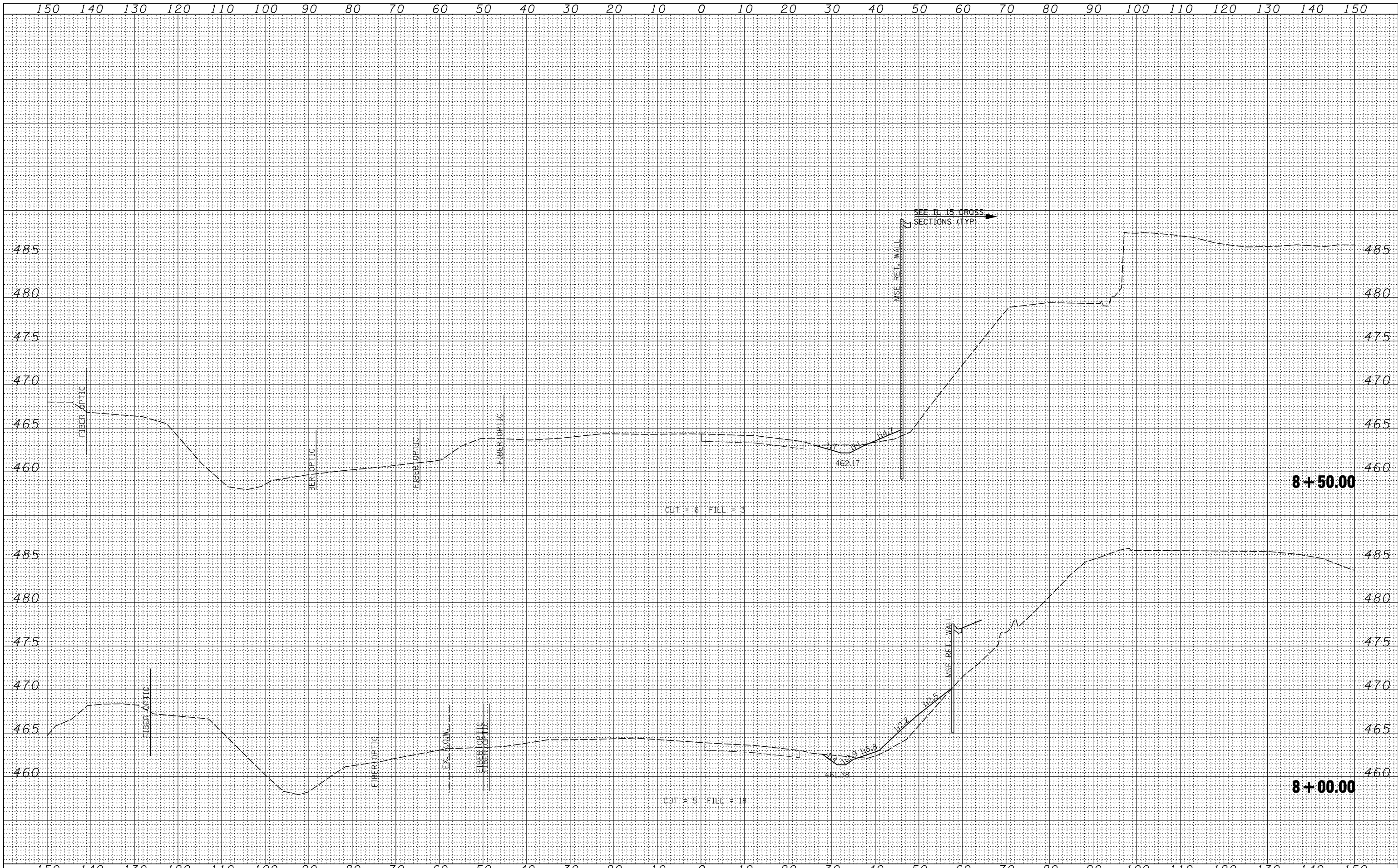
REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 15 CROSS SECTIONS

SCALE: SHEET NO. 28 OF 28 SHEETS STA. 723+00.00 TO STA. 723+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	273
			CONTRACT NO. 76884	
ILLINOIS FED. AID PROJECT				



BY	DATE

BY	DATE

FILE NAME =	USER NAME = thompsond
D876884-IL13-sht-xxsht.dgn	

DESIGNED - RDT	REVISD -
DRAWN - RDT	REVISD -
CHECKED - GC	REVISD -
DATE - 10-19-11	REVISD -

PLOT SCALE = 20.0000' / IN.
PLOT DATE = 10/20/2011

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

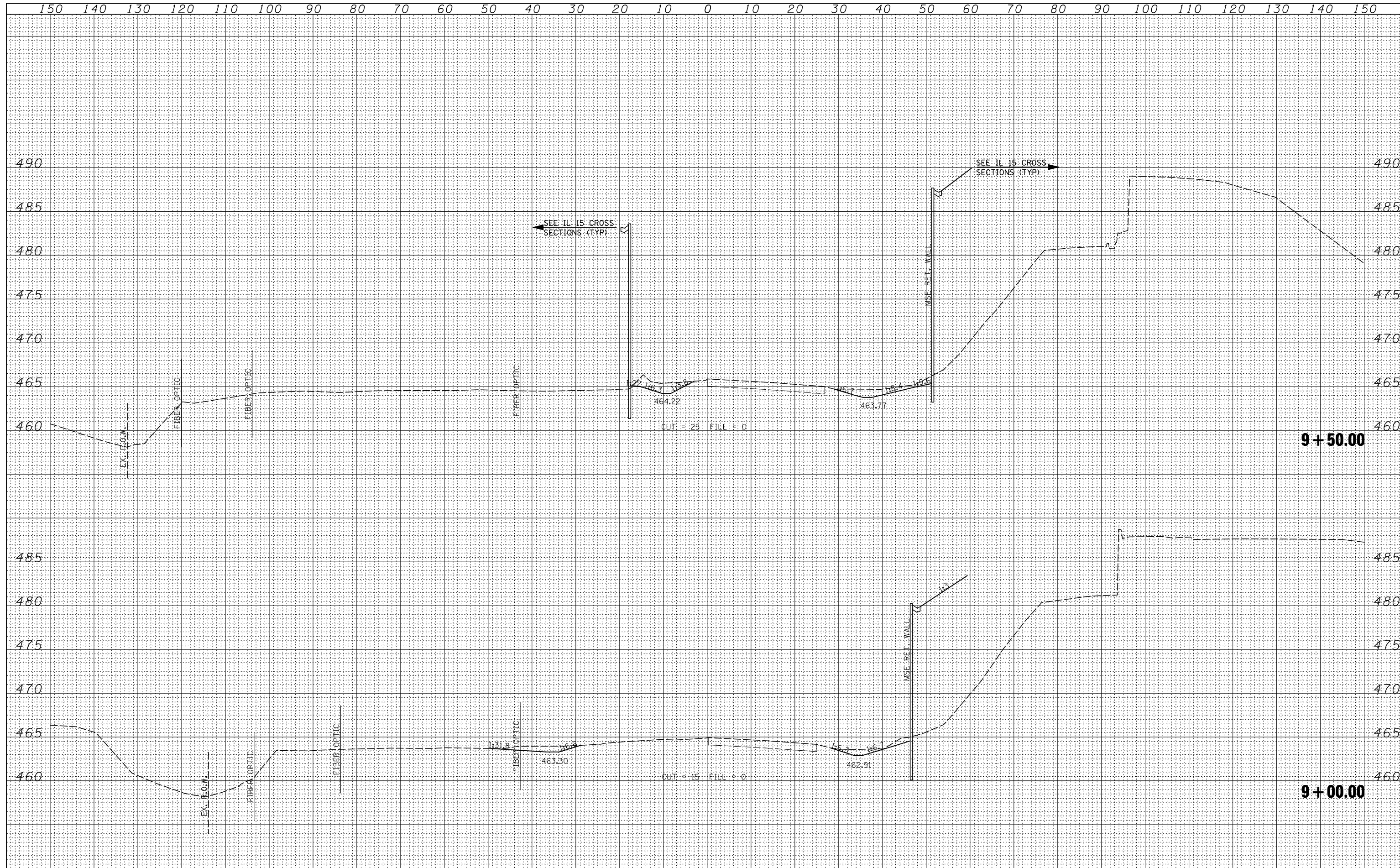
IL 13 CROSS SECTIONS

SCALE: SHEET NO. 1 OF 4 SHEETS STA. 8+00.00 TO STA. 8+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1 VHB-1	ST. CLAIR	277	274
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

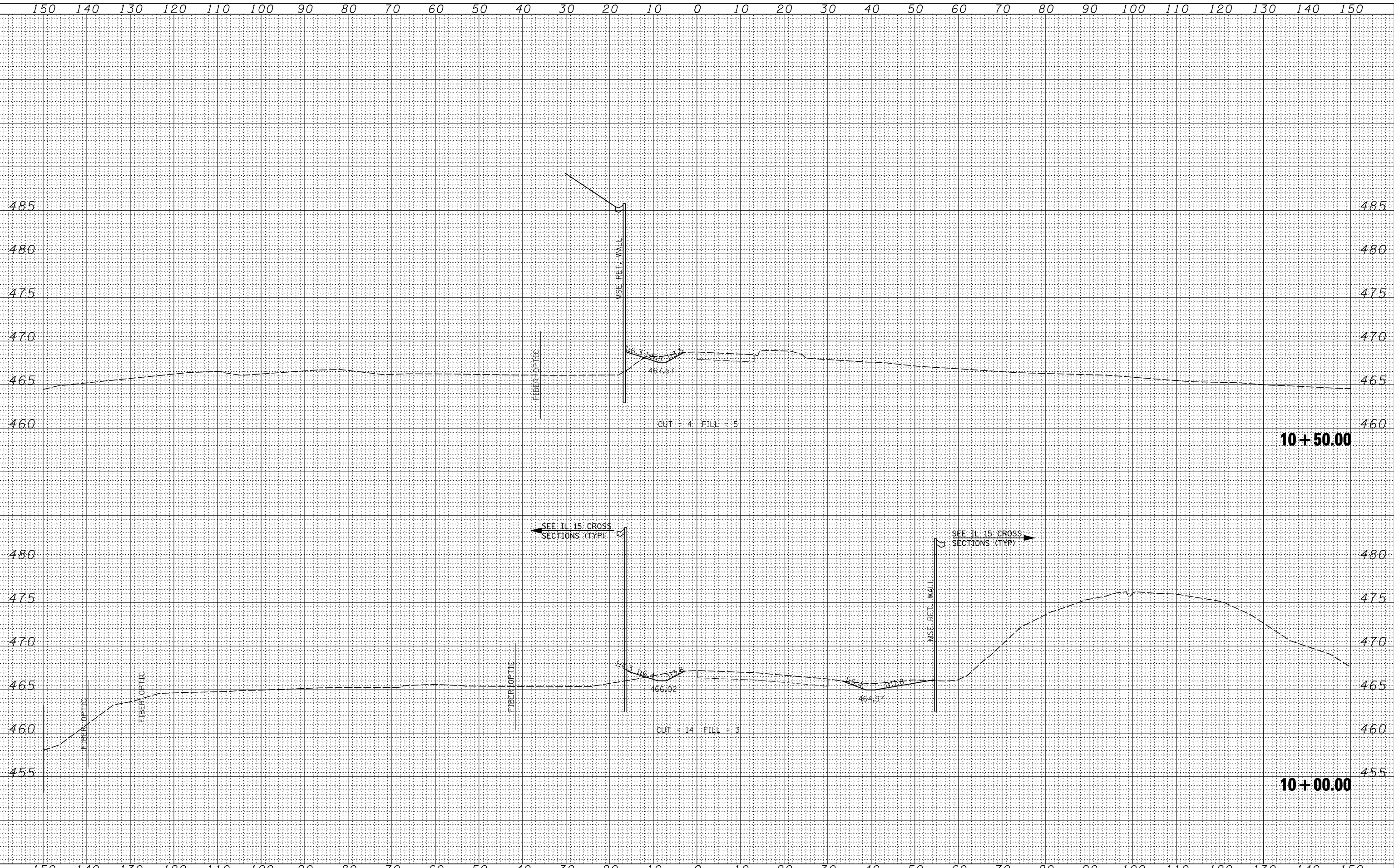
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = thompson	DESIGNED - RDT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D876884-IL13-sht-xssht.dgn		DRAWN - RDT	REVISED -			103	27-1-VHB-1	ST. CLAIR	277	275	
		CHECKED - GC	REVISED -			CONTRACT NO.					
		DATE - 10-19-11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
PLOT SCALE = 20.0000' / IN.				SCALE:	SHEET NO. 2 OF 4 SHEETS	STA. 9+00.00	TO STA. 9+50.00				

BY	DATE

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



FILE NAME =
D876884-IL13-sht-xssht.dgn

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	CHECKED - GC	REVISED -
	DATE - 10-19-11	REVISED -

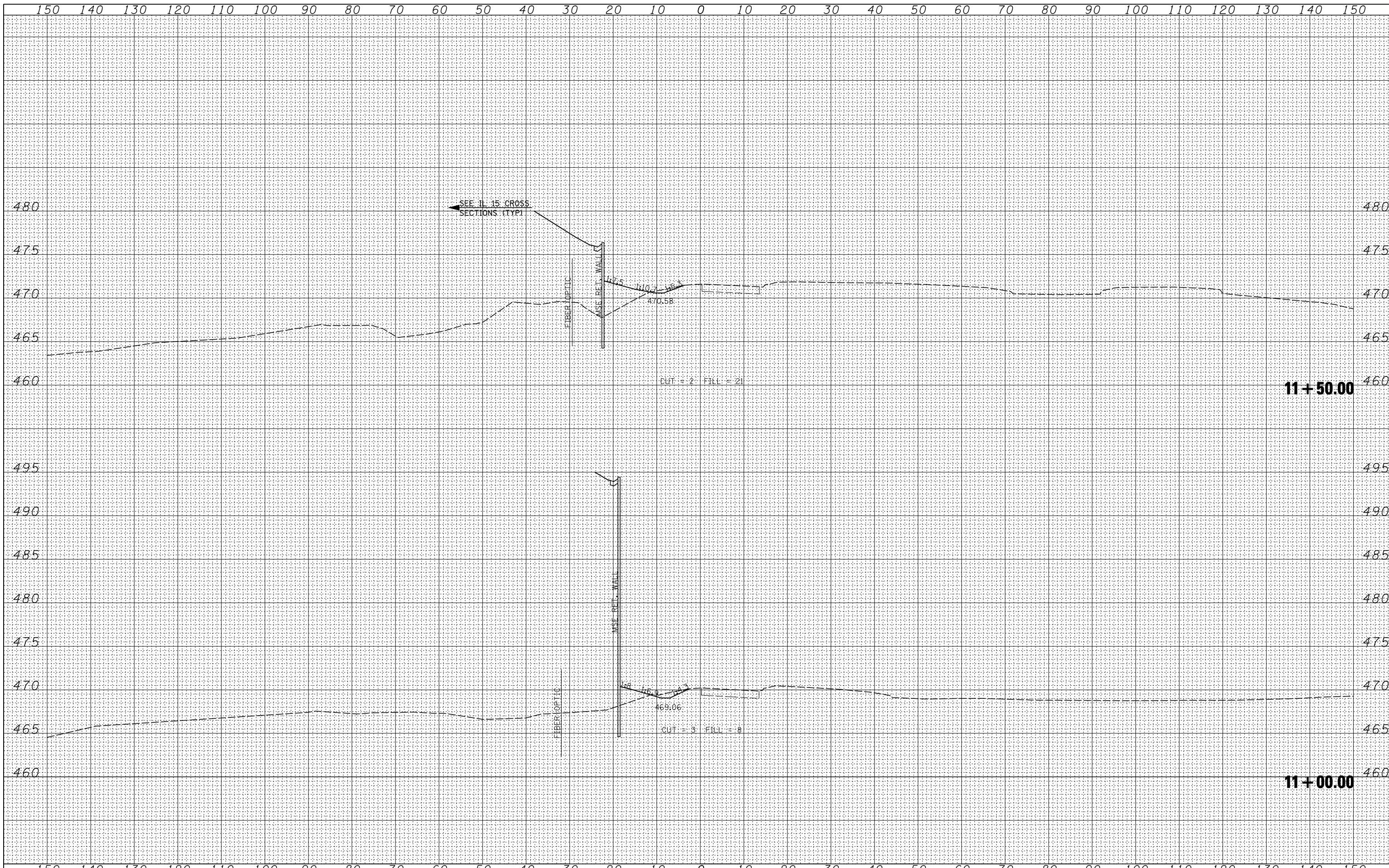
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 13 CROSS SECTIONS

SCALE: SHEET NO. 3 OF 4 SHEETS STA. 10+00.00 TO STA. 10+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	276
CONTRACT NO.				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



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

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

FILE NAME =	USER NAME = thompson	DESIGNED - RDT	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">IL 13 CROSS SECTIONS</p>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D876884-IL13-sht-xssht.dgn		DRAWN - RDT	REVISED -					103	27-1-VHB-1	ST. CLAIR	277	277
PLOT SCALE = 20.0000' / IN.		CHECKED - GC	REVISED -					CONTRACT NO.				
PLOT DATE = 10/20/2011		DATE - 10-19-11	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. 11+00.00	TO STA. 11+50.00					