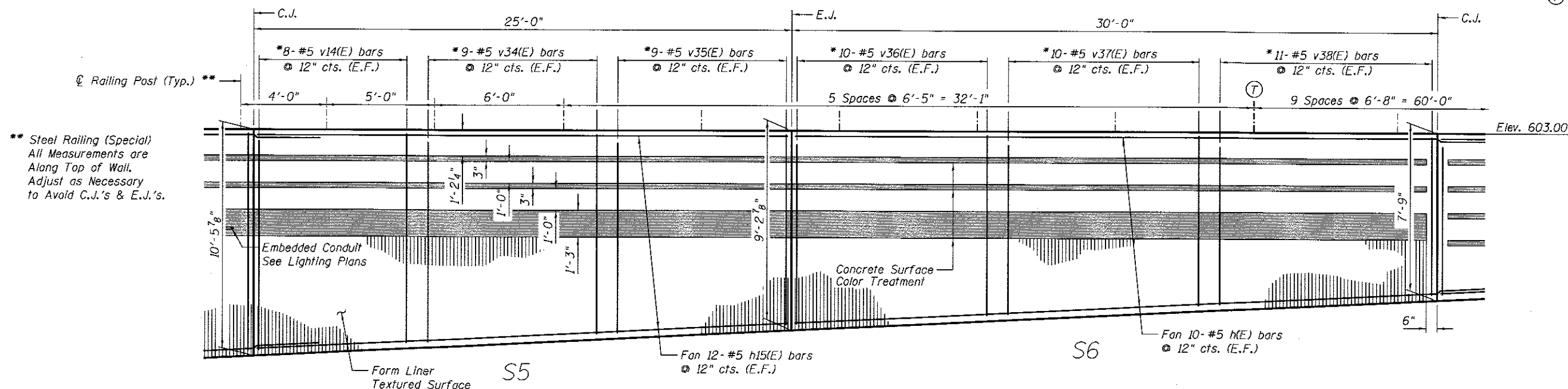
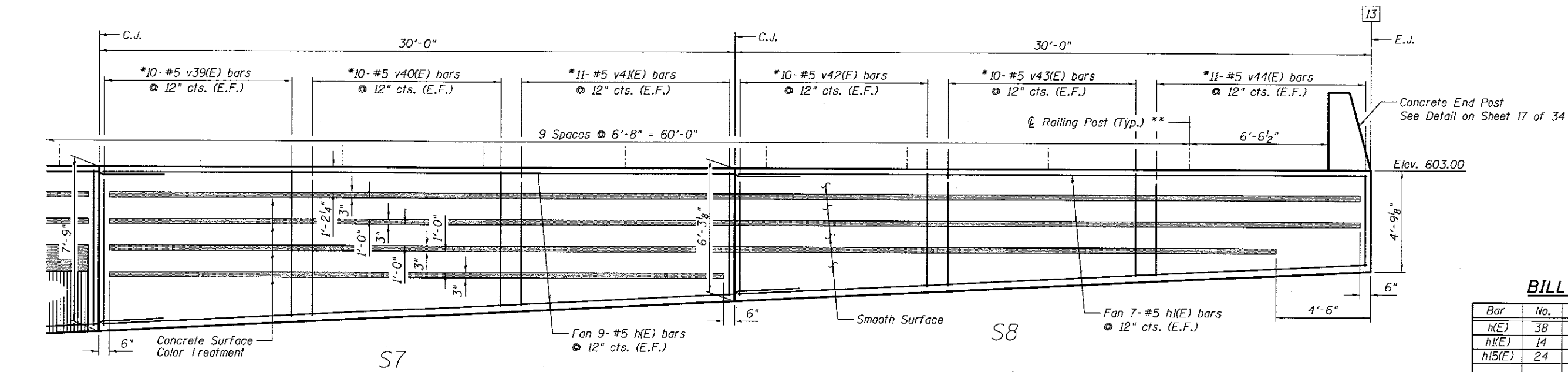


Ⓣ = Intermediate Tensioning Posts



**ELEVATION**  
Concrete Facing Panels S5 & S6



**ELEVATION**  
Concrete Facing Panels S7 & S8

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h(E)	38	#5	33'-0"	—	
h1(E)	14	#5	29'-8"	—	
h15(E)	24	#5	24'-8"	—	
v14(E)	16	#5	9'-10"	—	
v34(E)	18	#5	9'-5"	—	
v35(E)	18	#5	9'-0"	—	
v36(E)	20	#5	8'-6"	—	
v37(E)	20	#5	8'-0"	—	
v38(E)	22	#5	7'-6"	—	
v39(E)	20	#5	7'-0"	—	
v40(E)	20	#5	6'-6"	—	
v41(E)	22	#5	6'-0"	—	
v42(E)	20	#5	5'-6"	—	
v43(E)	20	#5	5'-0"	—	
v44(E)	22	#5	4'-6"	—	
Reinforcement Bars Epoxy Coated				Pound	4130
Concrete Structures				Cu. Yd.	36.9

Note: E.J. = Expansion Joint  
C.J. = Construction Joint  
E.F. = Each Face  
\* = Stagger Bars  
Ⓣ = Control Point

**MIN. BAR LAPS**  
#5 Bars = 2'-11"

FINAL  
DESIGNED RGC 5/11/14  
DRAWN EJM 12/9/14  
REVIEWED KMS 10/11/2015

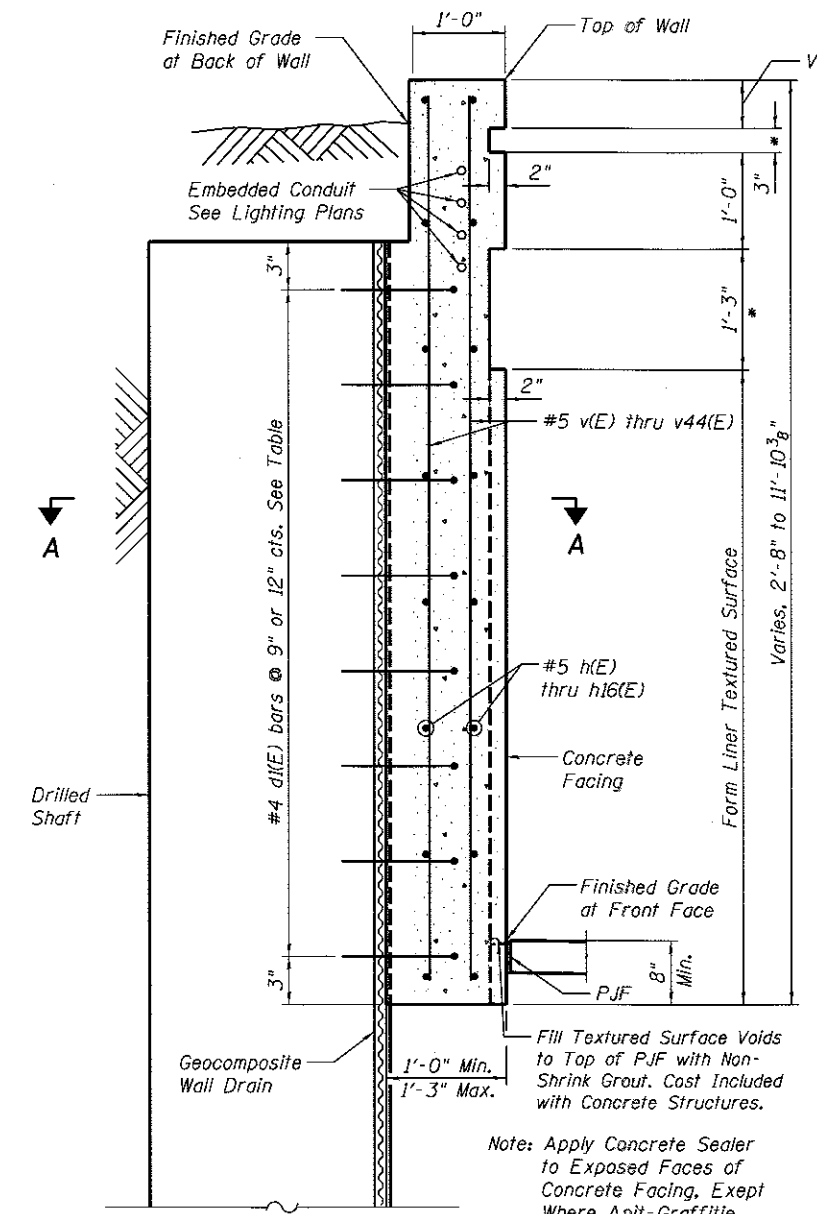
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FILE NAME =	USER NAME = pop00275	DESIGNED - RGC	REVISED -
		CHECKED - KMS	REVISED -
		DRAWN - EJM	REVISED -
		CHECKED - RGC	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING - SOUTH WALL**  
**ASH STREET RETAINING WALLS**

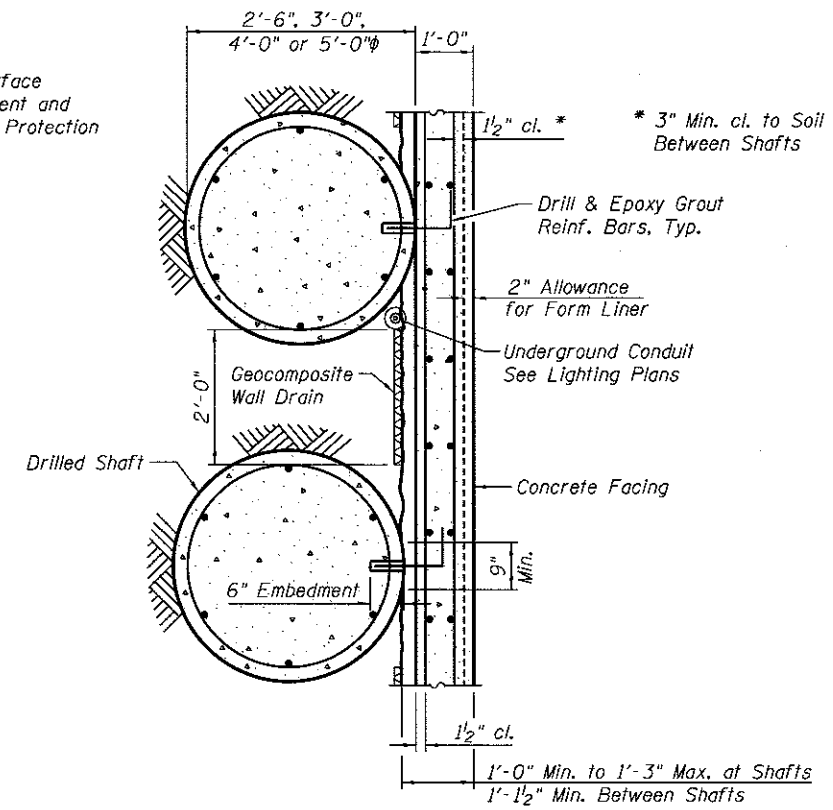
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	301
				CONTRACT NO. 93704



**VERTICAL SECTION THRU CONCRETE FACING**

Note: Apply Concrete Sealer to Exposed Faces of Concrete Facing, Except Where Anti-Graffiti Protection System is applied.

\* Concrete Surface Color Treatment and Anti-Graffiti Protection System



**SECTION A-A**

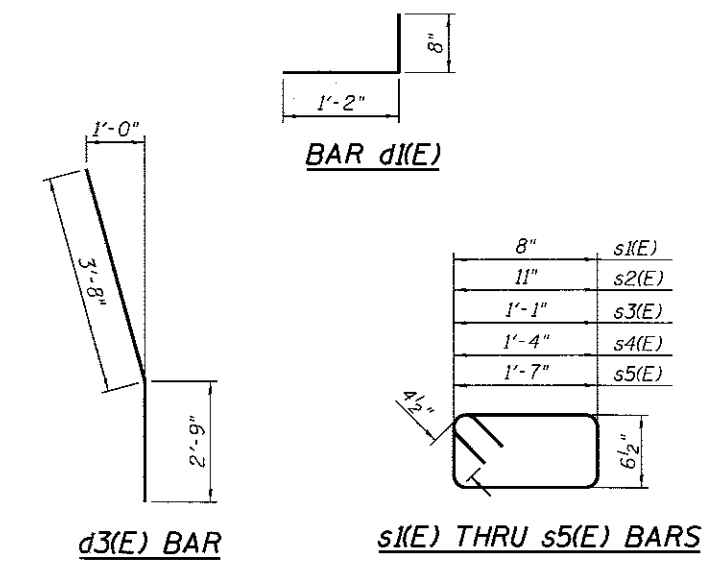
**NORTH WALL d1(E) BARS REQUIRED**

Shaft No.	Number Required on Each Shaft
1-4	2
5-8	3
9-12	4
13-15	5
16-18	6
19-21	7
22-24	8
25-27	9
28-31	10
32-33	11
34-36	14 @ 9"
37	12 @ 9"
38-39	9
40-42	8
43-45	7
46-48	6
49-52	5
53-55	4
56	3

**SOUTH WALL d1(E) BARS REQUIRED**

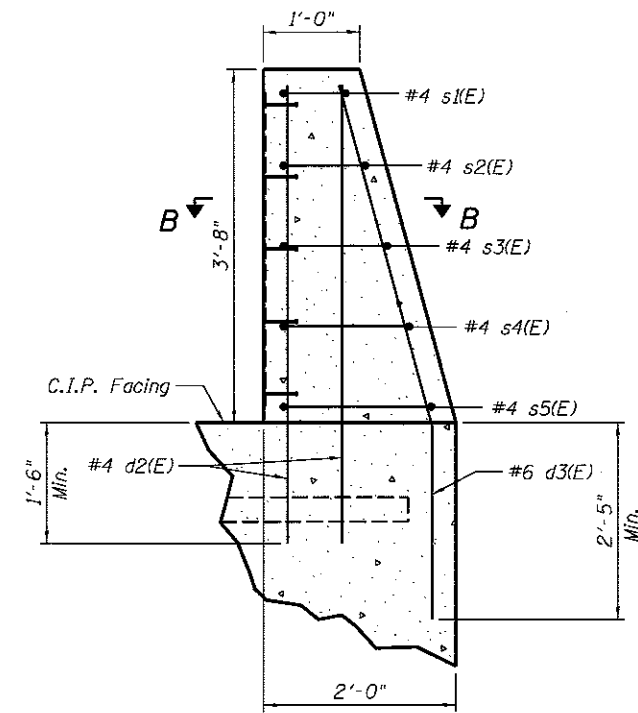
Shaft No.	Number Required on Each Shaft
1	3
2	4
3	6
4	7
5	9
6-10	10
11	12 @ 9"
12-14	14 @ 9"
15-17	10
18-20	9
21-23	8
24-26	7
27-30	6
31-33	5
34-36	4
37-39	3

Space at 12" Max. cts. Except as Indicated



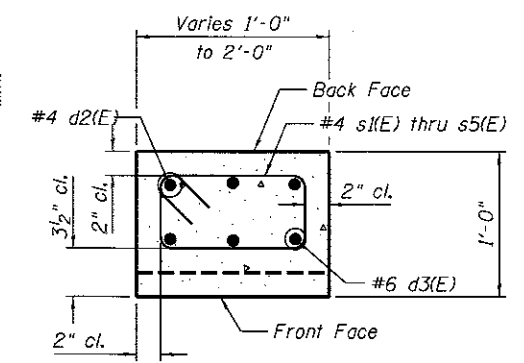
**BAR d1(E)**

**s1(E) THRU s5(E) BARS**



**CABLE ANCHORAGE CONCRETE END POST DETAIL**

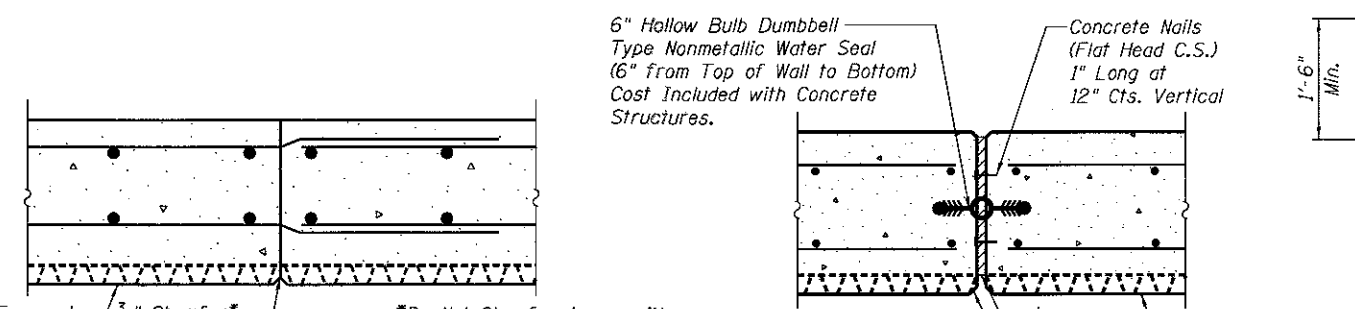
Typ. of 4 Posts on Concrete Facing  
See Sheet 26 of 34 for Railing Connection Details



**SECTION B-B**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d1(E)	668	#4	1'-10"	┌
d2(E)	16	#4	5'-3"	┌
d3(E)	8	#6	6'-5"	┌
s1(E)	4	#4	3'-2"	┌
s2(E)	4	#4	3'-8"	┌
s3(E)	4	#4	4'-0"	┌
s4(E)	4	#4	4'-6"	┌
s5(E)	4	#4	5'-0"	┌
Reinforcement Bars Epoxy Coated			Pound	1010
Concrete Structures			Cu. Yd.	0.8



**TYPICAL WALL CONSTRUCTION JOINT DETAIL**

**TYPICAL WALL EXPANSION JOINT DETAIL**

FINAL  
DESIGNED: RGC 6/11/14  
DRAWN: EJM 12/9/14  
REVIEWED: KMS 10/17/2016

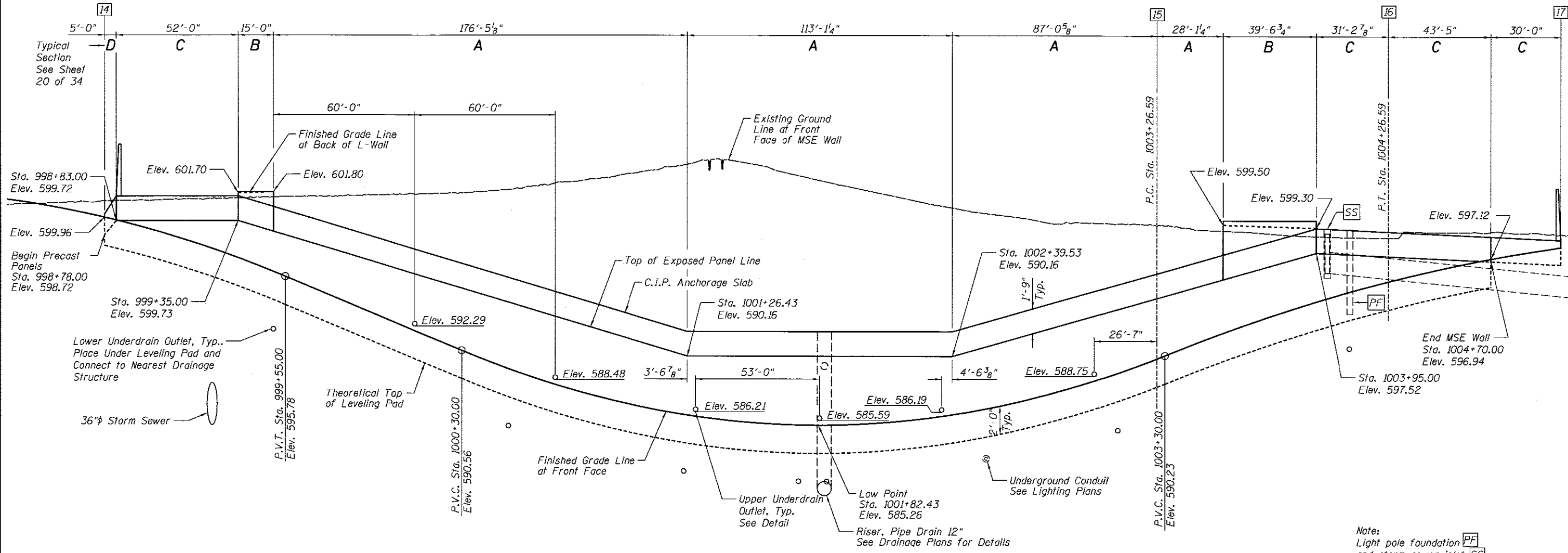
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		CHECKED - KMS	REVISED -
		DRAWN - EJM	REVISED -
		CHECKED - RGC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING DETAILS  
ASH STREET RETAINING WALLS**

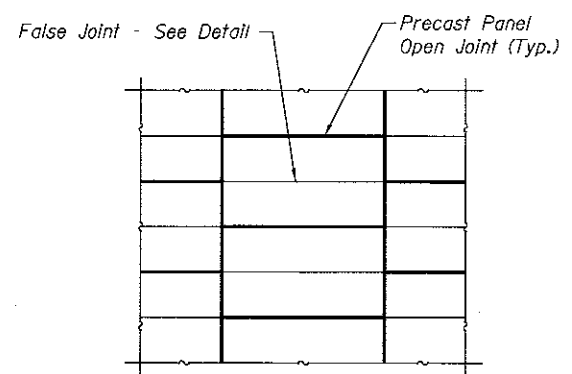
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	302
			CONTRACT NO. 93704	
(ILLINOIS) FED. AID PROJECT				

SHEET NO. 17 OF 34 SHEETS

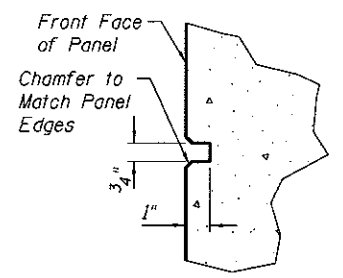


**NORTH WALL UNFOLDED ELEVATION**

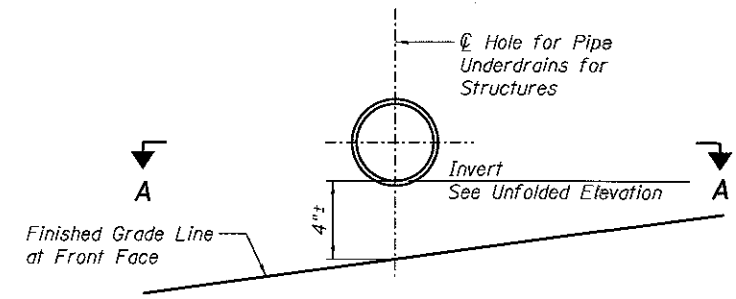
Note:  
 Light pole foundation [PF] and storm sewer inlet [SS] are located immediately behind Reinforced Soil Mass at the locations indicated. Coordinate design & construction of MSE Wall with these features.



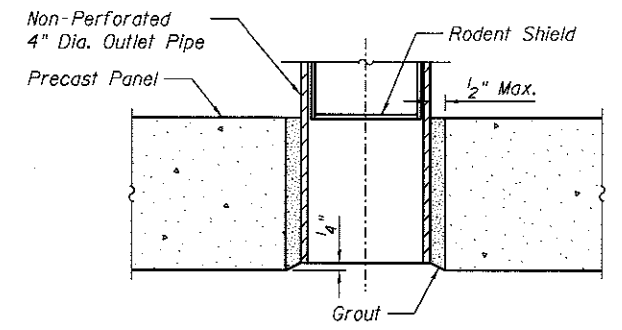
**MSE WALL PRECAST PANEL PATTERN**



**FALSE JOINT RUSTICATION**



**UPPER UNDERDRAIN OUTLET DETAIL**



**SECTION A-A**

FINAL  
 DESIGNED: RGC 6/11/14  
 DRAWN: EJM 12/9/14  
 REVIEWED: KMS 10/17/2015

\\p1\api-svr\305.hanson.com\hanson\_projects\Documents\09\Jobs\09\01798\CA0\Struct\Ash-10th\Sheet\09\01798-AshRetainingWallPlans

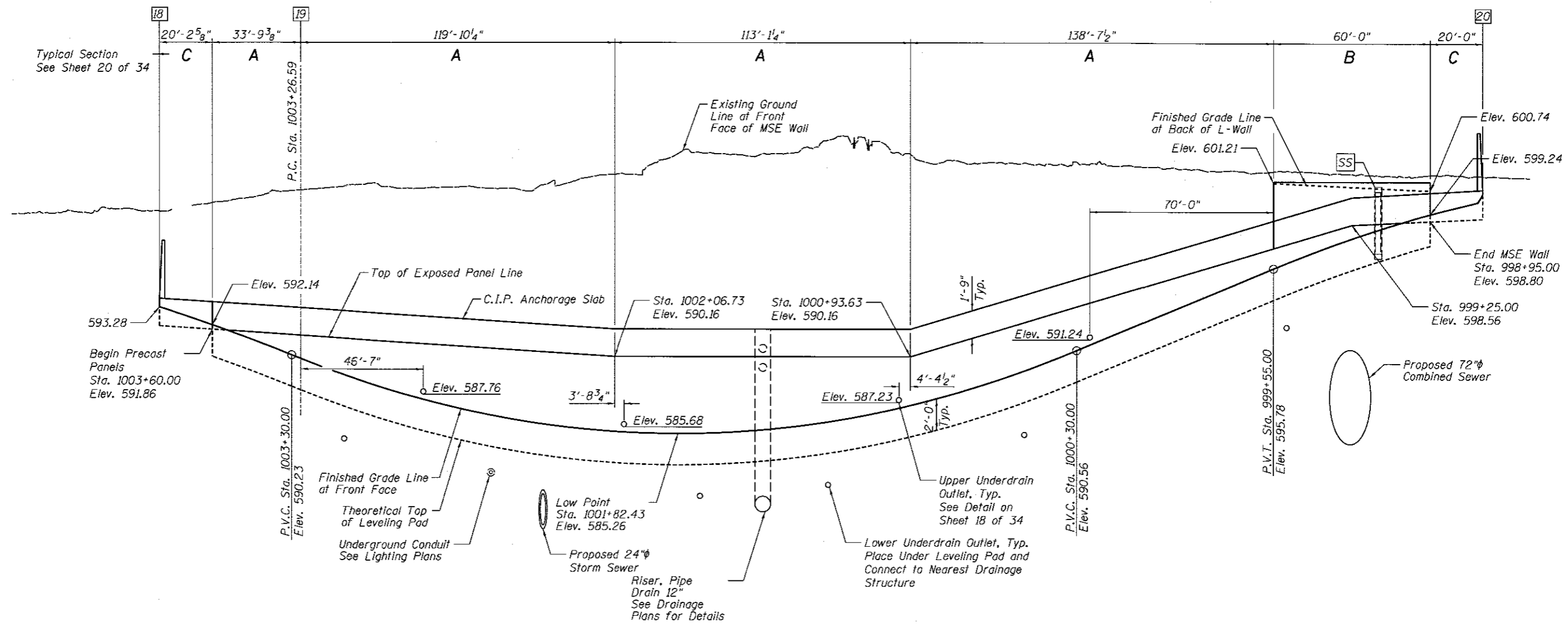
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		DRAWN - EJM	REVISED -
		CHECKED - RGC	REVISED -
PLOT SCALE = 0.1667' / 1"			
PLOT DATE = 2/24/2017			

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MSE UNFOLDED ELEVATION - NORTH WALL  
 ASH STREET RETAINING WALLS**

SHEET NO. 18 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	303
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



**SOUTH WALL UNFOLDED ELEVATION**

Note:  
 Light pole foundation **PF**  
 and storm sewer inlet **SS**  
 are located immediately behind Reinforced Soil Mass at the locations indicated. Coordinate design & construction of MSE Wall with these features.

FINAL  
 DESIGNED 6/11/14  
 DRAWN 12/9/14  
 REVIEWED KMS 10/17/2016

FILE NAME: \\sp1-svr-386.hanson.com\hanson\_projects\Documents\09Jobs\09101798\CAD\Struct\Ash-10th\Sheet\09101798-AshRetainingWallPlans

USER NAME = pop00275	DESIGNED - RGC	REVISED -
PLOT SCALE = 0.1667 / in.	CHECKED - KMS	REVISED -
PLOT DATE = 2/24/2017	DRAWN - EJM	REVISED -
	CHECKED - RGC	REVISED -

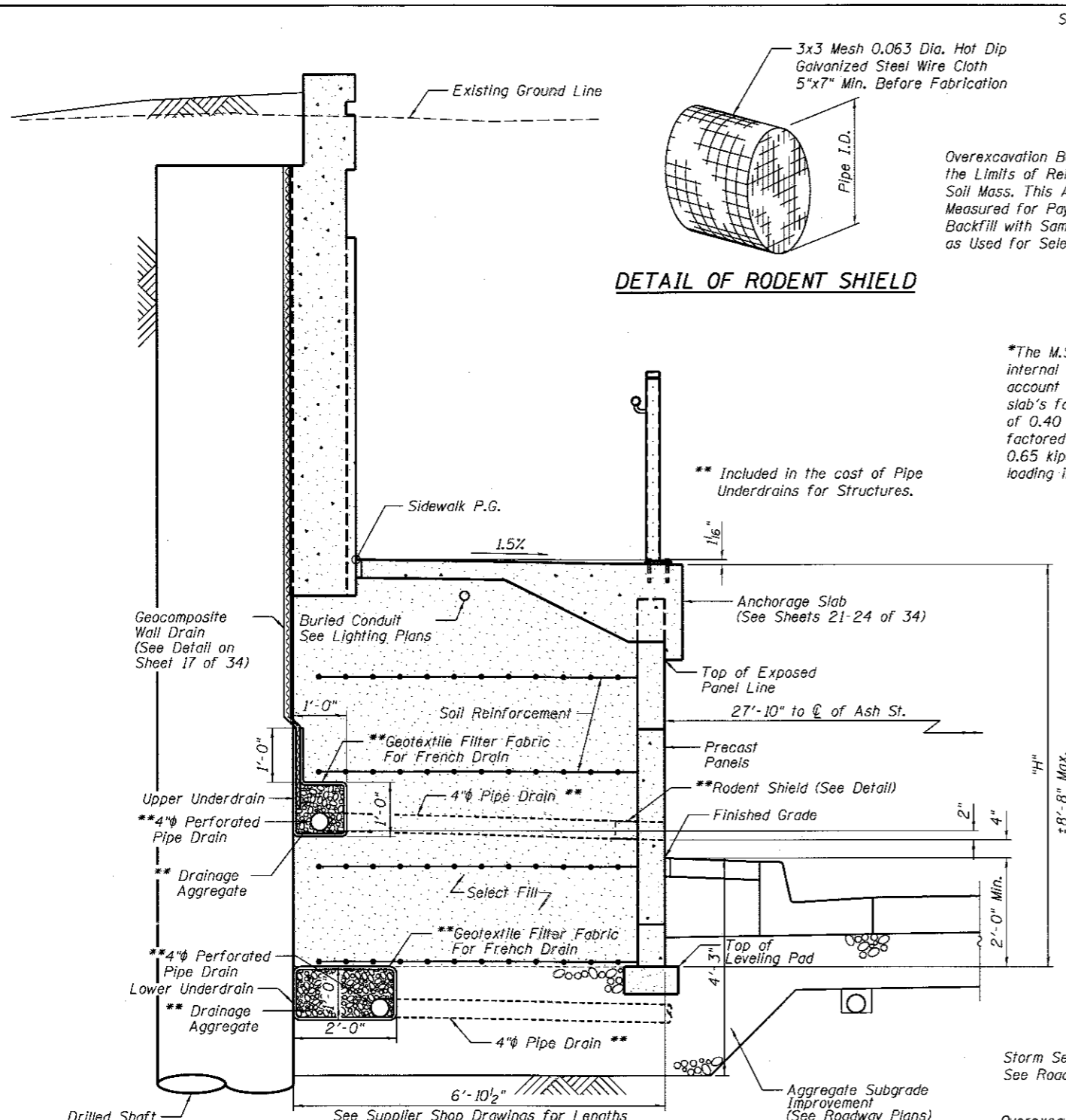
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MSE UNFOLDED ELEVATION - SOUTH WALL**  
**ASH STREET RETAINING WALLS**

SHEET NO. 19 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	304
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



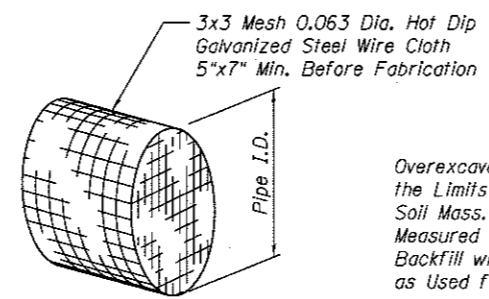


**TYPICAL MSE WALL SECTION A**

- MSE Wall Design Loads**
1. Native soil behind select fill  
Unit Weight = 125 pcf,  $\phi = 30^\circ$
  2. Vertical live load on sidewalk = 75 psf
  3. Vertical live load behind upper wall  
Cooper E-80 at railroad tracks  
240 psf traffic surcharge elsewhere

External stability of the MSE wall in front of the permanent tangent pile retaining wall has been evaluated for the greater of the active pressure including surcharge behind the tangent pile wall applied only though the gaps between the drilled shafts or 35 psf/ft applied to the entire reinforced soil mass.

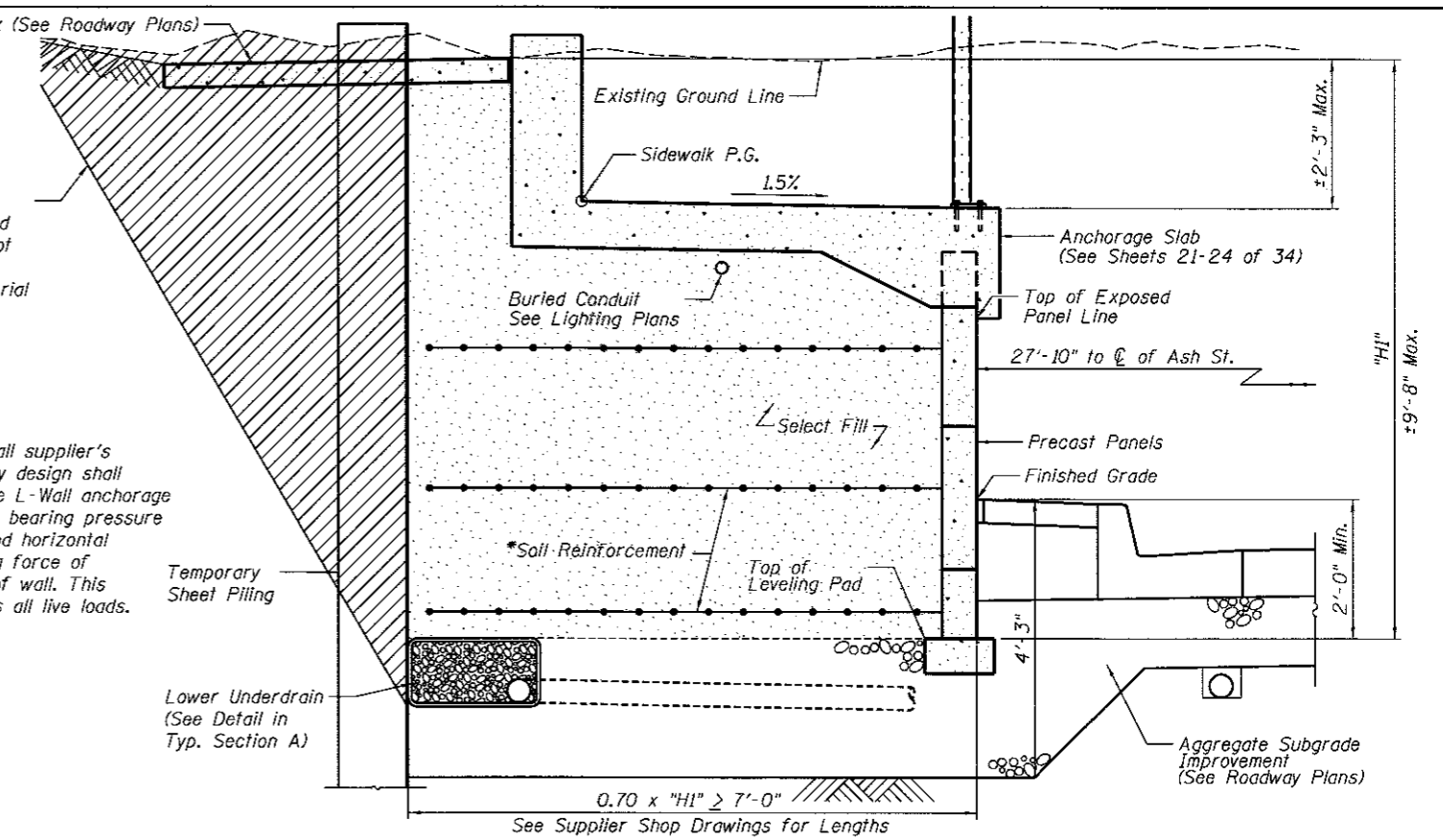
**DETAIL OF RODENT SHIELD**



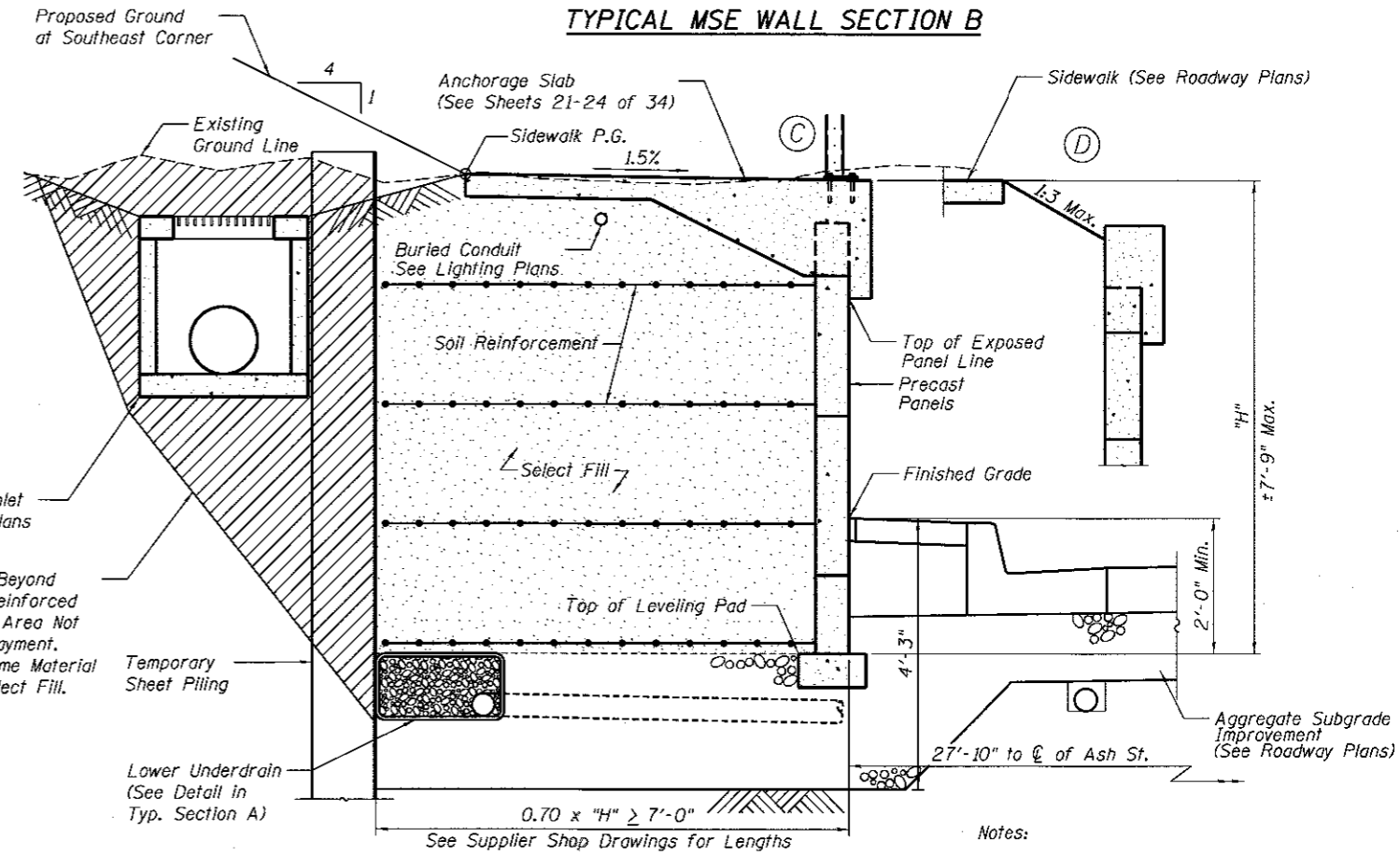
Overexcavation Beyond the Limits of Reinforced Soil Mass. This Area Not Measured for Payment. Backfill with Same Material as Used for Select Fill.

\*The M.S.E. wall supplier's internal stability design shall account for the L-Wall anchorage slab's factored bearing pressure of 0.40 ksf and horizontal factored sliding force of 0.65 kips/ft. of wall. This loading includes all live loads.

\*\* Included in the cost of Pipe Underdrains for Structures.



**TYPICAL MSE WALL SECTION B**



**TYPICAL MSE WALL SECTIONS C & D**

- Notes:**
1. Apply Concrete Sealer to Exposed Faces of Precast Panels, Coping, and Anchorage Slab.

FINAL  
 DESIGNED: RGC 6/11/14  
 DRAWN: EJM 12/9/14  
 REVIEWED: KMS 10/17/2016

\\sp1\svr\385.hanson.com\hanson\_projects\documents\9\Jobs\09\01798\CAD\Struct\Ash-10th\Sheet\09\01798-AshRetainingWallPlans

FILE NAME =	USER NAME = pop8275	DESIGNED - RGC	REVISIONS -
		CHECKED - KMS	REVISIONS -
		DRAWN - EJM	REVISIONS -
		CHECKED - RGC	REVISIONS -

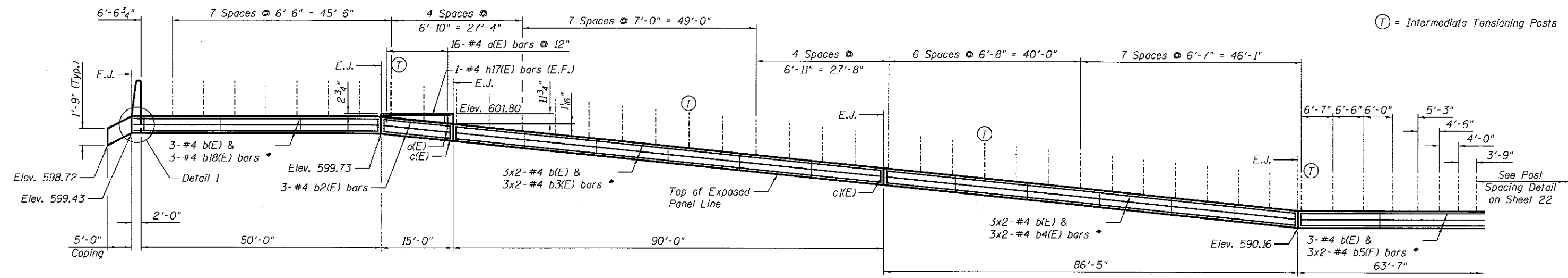
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MSE DETAILS  
ASH STREET RETAINING WALLS**

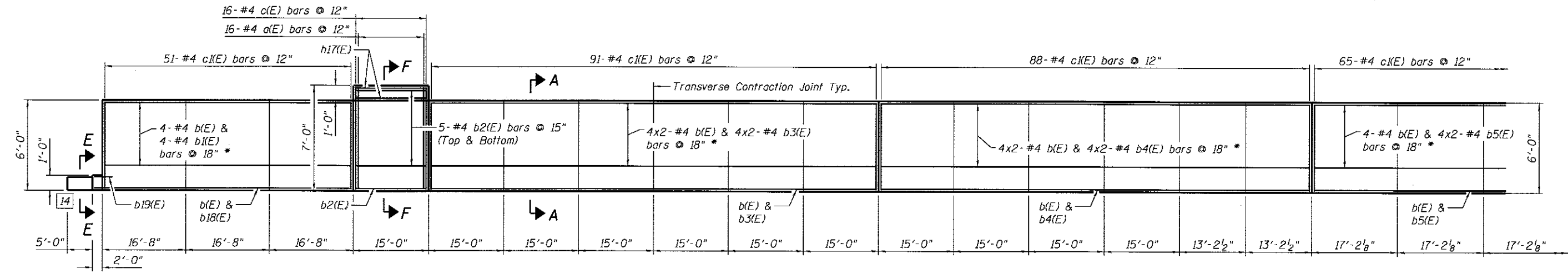
SHEET NO. 20 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				

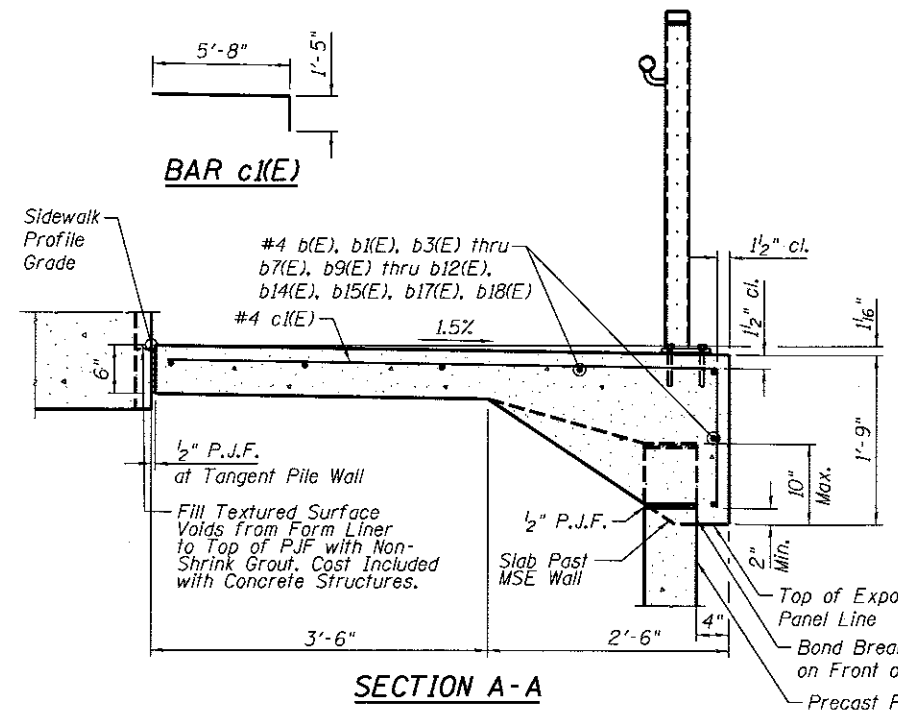
Ⓣ = Intermediate Tensioning Posts



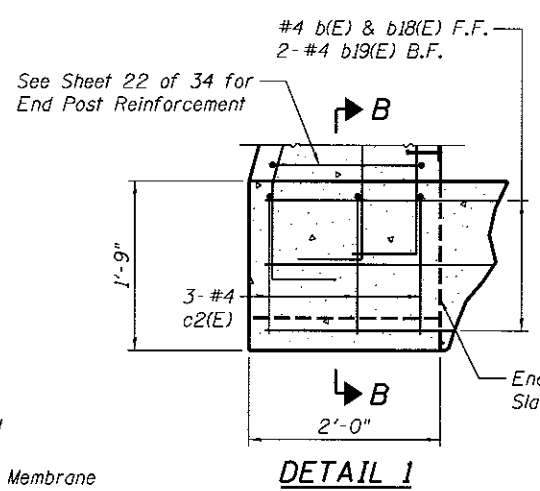
ELEVATION - NORTH WALL ANCHORAGE SLAB (WEST)



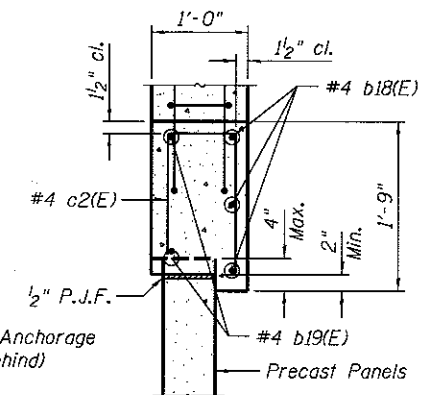
PLAN - NORTH WALL ANCHORAGE SLAB (WEST)



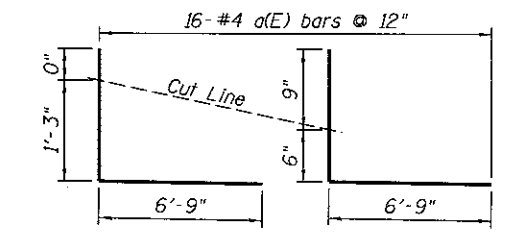
SECTION A-A



DETAIL 1

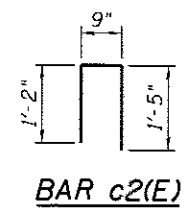


SECTION B-B



BARS a(E)

Bars Above Cut Line To Be Used at Front Face of L-Wall



BAR c2(E)

MIN. BAR LAPS

#4 Bars = 1'-10"

Note: E.J. = Expansion Joint  
E.F. = Each Face  
\* = Stagger Laps  
[14] = Control Point

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#4	8'-0"	—
b(E)	42	#4	30'-0"	—
b1(E)	4	#4	21'-6"	—
b2(E)	13	#4	14'-8"	—
b3(E)	14	#4	17'-8"	—
b4(E)	14	#4	15'-10"	—
b5(E)	14	#4	18'-6"	—
b18(E)	3	#4	23'-6"	—
b19(E)	2	#4	3'-10"	—
c(E)	16	#4	8'-2"	—
c1(E)	295	#4	7'-1"	—
c2(E)	3	#4	3'-4"	—
h17(E)	2	#4	14'-8"	—
Reinforcement Bars		Pound	3160	
Concrete Structures		Cu. Yd.	56.3	

FINAL  
DESIGNED  
DRAWN  
CHECKED  
REVISIONS

6/11/14  
12/9/14  
10/17/2016

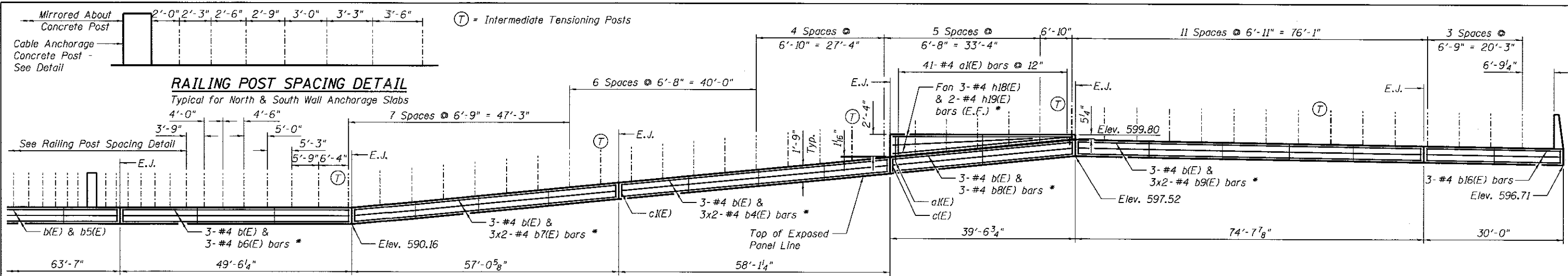
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USER NAME: pop0275  
DESIGNED - RGC  
CHECKED - KMS  
DRAWN - EJM  
PLOT DATE = 2/24/2017

REVISIONS  
REVISOR  
DATE

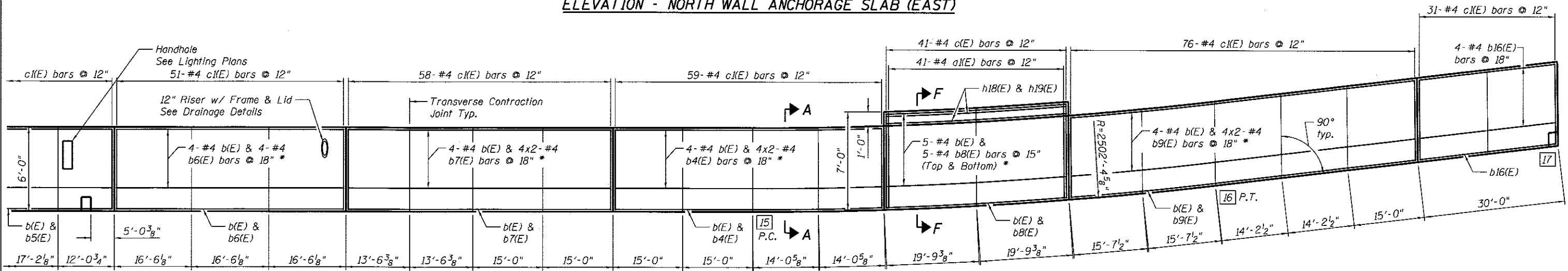
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB - NORTH WALL  
ASH STREET RETAINING WALLS  
SHEET NO. 21 OF 34 SHEETS

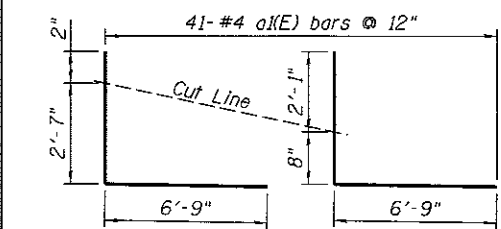
F.A.J. R.T.E.  
SECTION 14-00477-00-BR  
COUNTY SANGAMON  
TOTAL SHEETS 403  
SHEET NO. 306  
CONTRACT NO. 93704  
ILLINOIS FED. AID PROJECT



**ELEVATION - NORTH WALL ANCHORAGE SLAB (EAST)**

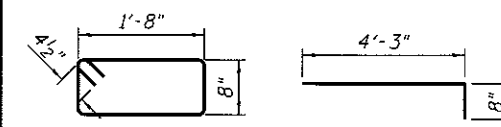


**PLAN - NORTH WALL ANCHORAGE SLAB (EAST)**



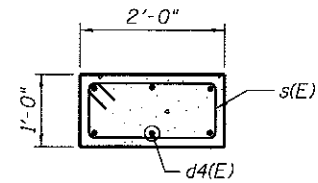
**BARS a(E)**

Bars Above Cut Line To Be Used at Front Face of L-Wall

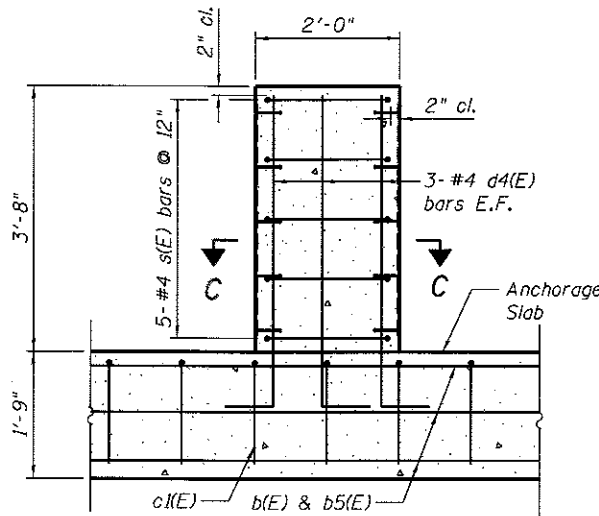


**BAR s(E)**

**BAR d4(E)**

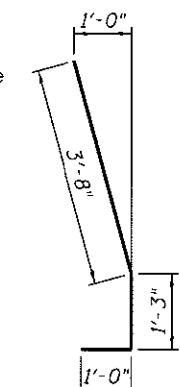


**SECTION C-C**



**CABLE ANCHORAGE CONCRETE CENTER POST DETAIL**

Typical for North and South Walls  
See Sheet 26 of 34 for Railing Connection Details

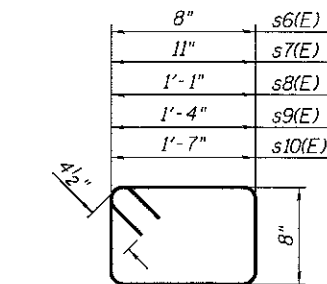


**d5(E) BAR**

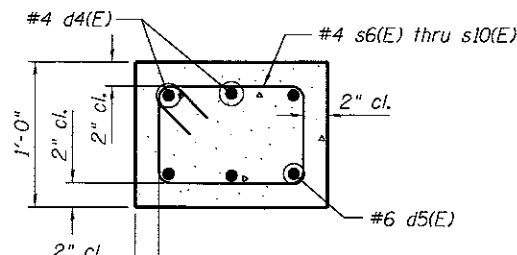
**MIN. BAR LAPS**

#4 Bars = 1'-10"

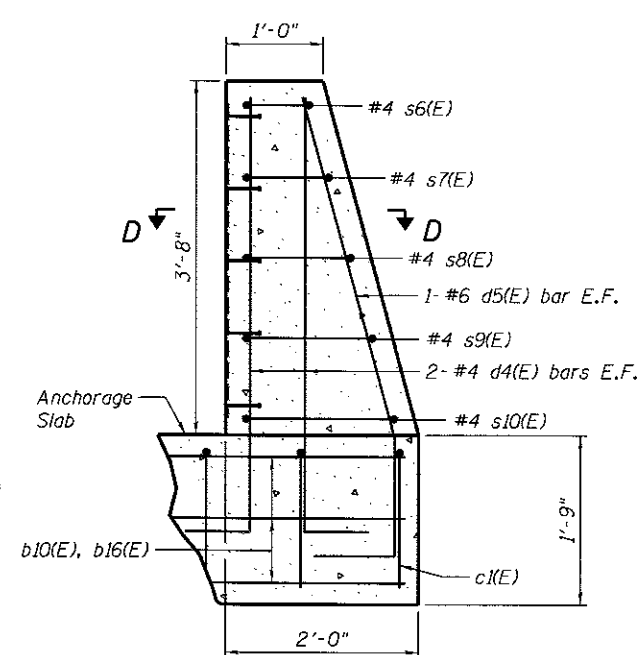
Note: E.J. = Expansion Joint  
E.F. = Each Face  
\* = Stagger Laps  
[17] = Control Point



**s6(E) THRU s10(E) BARS**



**SECTION D-D**



**CABLE ANCHORAGE CONCRETE END POST DETAIL**

Typical for 4 End Posts on Anchorage Slab  
See Sheet 26 of 34 for Railing Connection Details

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	41	#4	9'-6"	□
b(E)	41	#4	30'-0"	—
b4(E)	14	#4	15'-10"	—
b6(E)	7	#4	21'-2"	—
b7(E)	14	#4	15'-3"	—
b8(E)	13	#4	11'-1"	—
b9(E)	14	#4	24'-7"	—
b16(E)	7	#4	29'-8"	—
c(E)	41	#4	8'-2"	□
c1(E)	275	#4	7'-1"	□
d4(E)	28	#4	4'-11"	□
d5(E)	8	#6	5'-11"	□
h18(E)	6	#4	30'-0"	—
h19(E)	4	#4	11'-1"	—
s(E)	10	#4	5'-5"	□
s6(E)	4	#4	3'-5"	□
s7(E)	4	#4	3'-11"	□
s8(E)	4	#4	4'-3"	□
s9(E)	4	#4	4'-9"	□
s10(E)	4	#4	5'-3"	□
Reinforcement Bars Epoxy Coated	Pound		3870	
Concrete Structures	Cu. Yd.		61.1	

FINAL  
DESIGNED: RGC 6/11/14  
DRAWN: EJM 12/5/14  
REVIEWED: KMS 10/17/2015

Project: \\p1\p1-svr306.hanson.com\hanson\_projects\Documents\09Jobs\09\_01798\CAD\Struct\Ash-18\h\Sheet\09\_01798-AshRetainingWallPlans

FILE NAME :	USER NAME :	DESIGNED :	REVISIONS :
09_01798-AshRetainingWallPlans	pop8275	RGC	-
		CHECKED :	REVISIONS :
		KMS	-
		DRAWN :	REVISIONS :
		EJM	-
		CHECKED :	REVISIONS :
		RGC	-

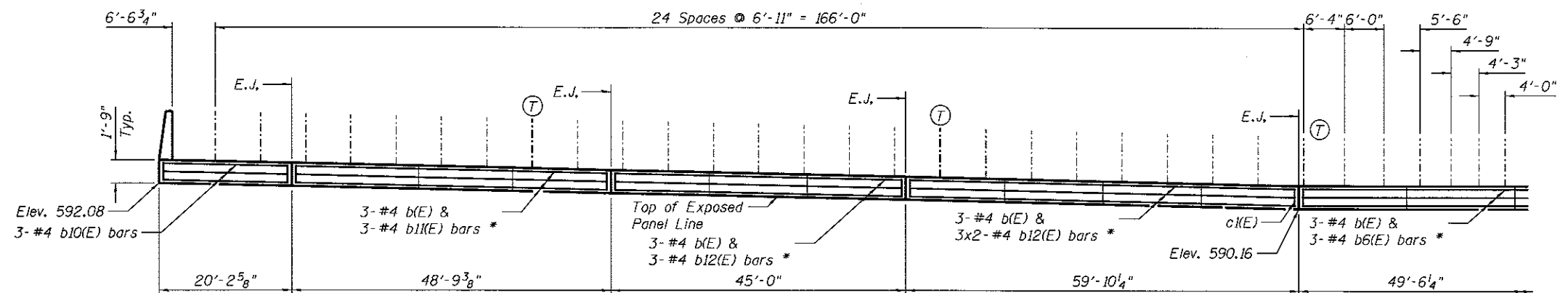
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB - NORTH WALL  
ASH STREET RETAINING WALLS

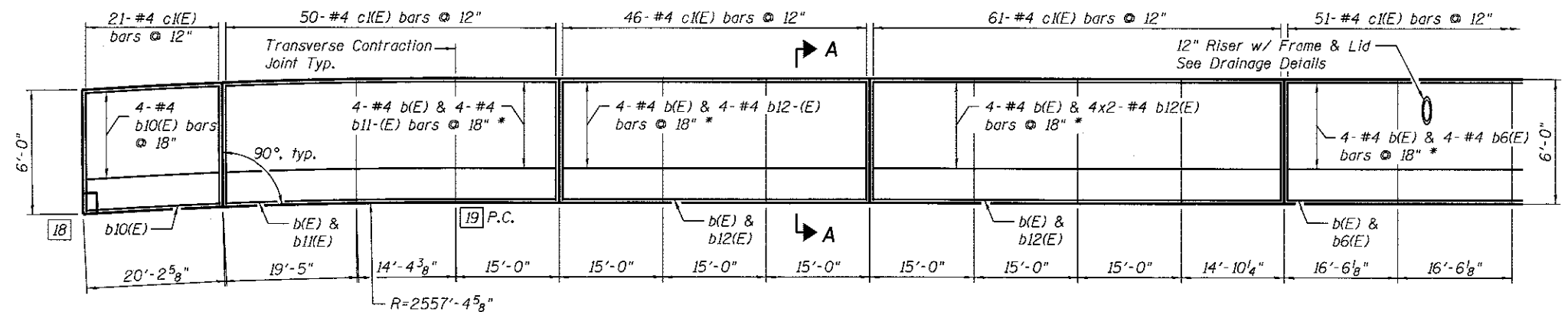
SHEET NO. 22 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	307
				CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

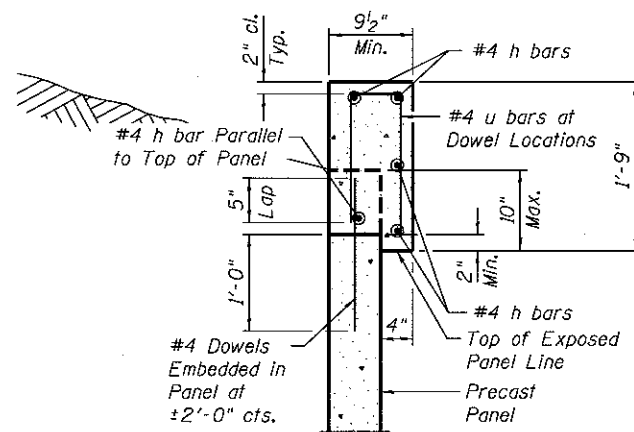
Ⓣ = Intermediate Tensioning Posts



ELEVATION - SOUTH WALL ANCHORAGE SLAB (EAST)

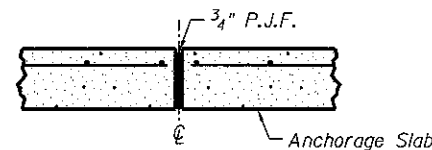


PLAN - SOUTH WALL ANCHORAGE SLAB (EAST)

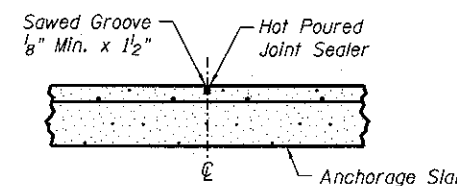


SECTION E-E

Concrete and Reinforcement in Coping is Included for Payment in the item "Mechanically Stabilized Earth Retaining Wall".



EXPANSION JOINT



TRANSVERSE CONTRACTION JOINT

See Article 420.05(c) of Standard Specifications.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b1(E)	28	#4	30'-0"	—
b6(E)	7	#4	21'-2"	—
b10(E)	7	#4	19'-10"	—
b11(E)	7	#4	20'-6"	—
b12(E)	21	#4	16'-8"	—
c1(E)	229	#4	7'-1"	L
Reinforcement Bars Epoxy Coated		Pound		2170
Concrete Structures		Cu. Yd.		40.4

MIN. BAR LAPS

#4 Bars = 1'-10"

Note: E.J. = Expansion Joint

E.F. = Each Face

\* = Stagger Laps

18 = Control Point

FINAL  
DESIGNED: RGC 6/11/14  
DRAWN: EJM 12/9/14  
REVIEWED: KMS 10/17/2016

\\p1\sp1\svr306.hanson.dam\hanson\_projects\Documents\09Jobs\09L0179B\CAD\Struct\Ash-10th\Sheet\09L0179B-AshRetainingWallPlans

FILE NAME =	USER NAME = pop88275	DESIGNED - RGC	REVISED -
		CHECKED - KMS	REVISED -
		DRAWN - EJM	REVISED -
		CHECKED - RGC	REVISED -

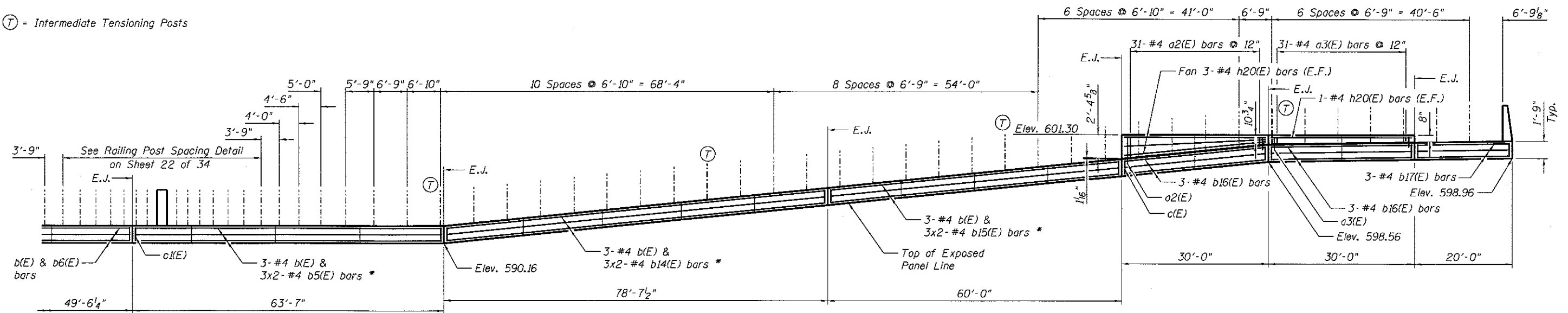
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB - SOUTH WALL  
ASH STREET RETAINING WALLS

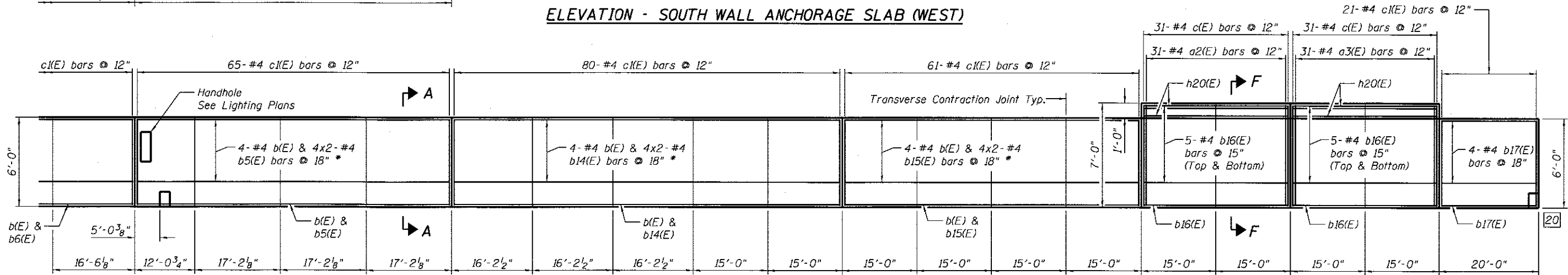
SHEET NO. 23 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				

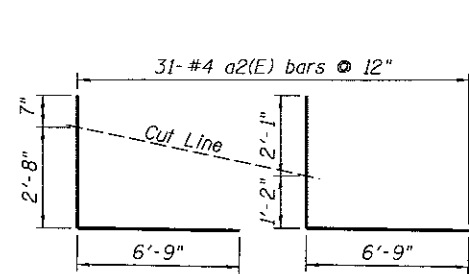
Ⓣ = Intermediate Tensioning Posts



**ELEVATION - SOUTH WALL ANCHORAGE SLAB (WEST)**

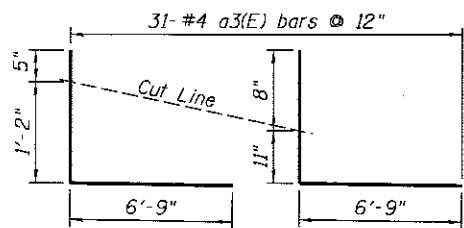


**PLAN - SOUTH WALL ANCHORAGE SLAB (WEST)**



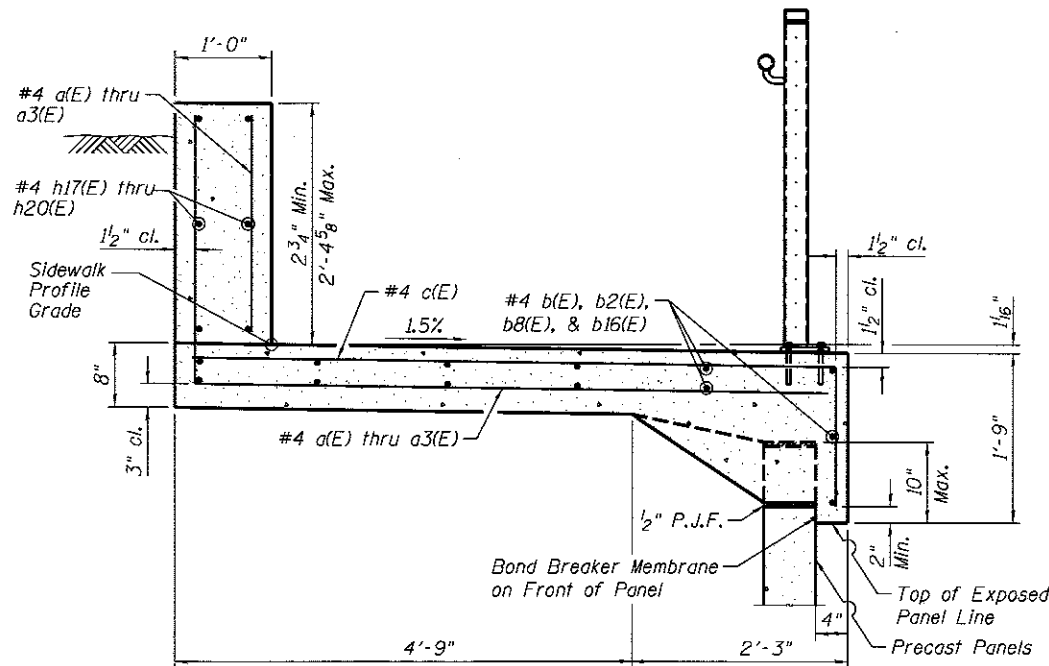
**BARS a2(E)**

Bars Above Cut Line To Be Used at Front Face of L-Wall

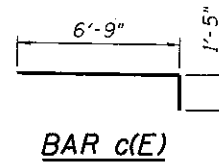


**BARS a3(E)**

Bars Above Cut Line To Be Used at Front Face of L-Wall



**SECTION F-F**



**BAR c(E)**

**MIN. BAR LAPS**

#4 Bars = 1'-10"

Note: E.J. = Expansion Joint  
E.F. = Each Face  
\* = Stagger Laps  
Ⓣ = Control Point

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	31	#4	10'-0"	L
a3(E)	31	#4	8'-4"	L
b(E)	21	#4	30'-0"	—
b5(E)	14	#4	18'-6"	—
b14(E)	14	#4	26'-2"	—
b15(E)	14	#4	16'-9"	—
b16(E)	26	#4	29'-8"	—
b17(E)	7	#4	19'-8"	—
c(E)	62	#4	8'-2"	L
c1(E)	227	#4	7'-1"	L
h20(E)	8	#4	29'-8"	—
Reinforcement Bars Epoxy Coated		Pound	3550	
Concrete Structures		Cu. Yd.	56.6	

FINAL  
DESIGNED: RGC 6/11/14  
DRAWN: EJM 12/9/14  
REVIEWED: KMS 10/17/2016

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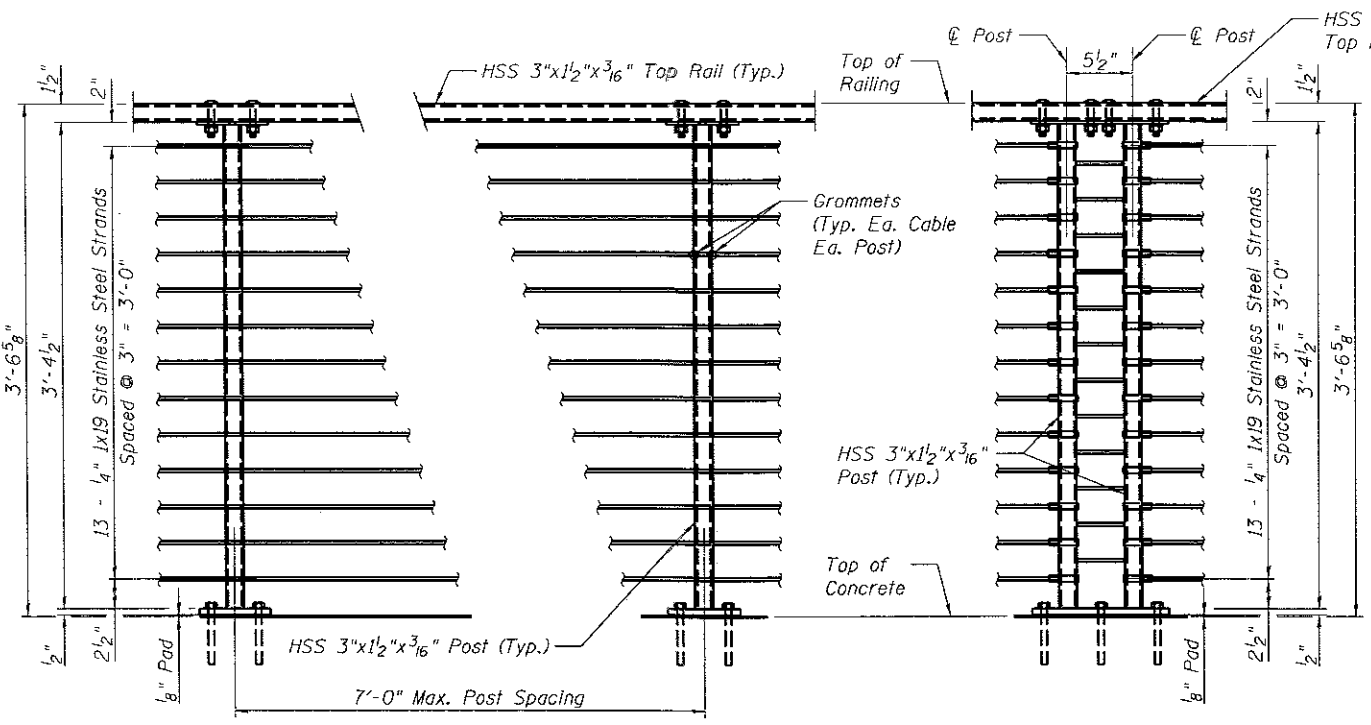
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB - SOUTH WALL  
ASH STREET RETAINING WALLS**

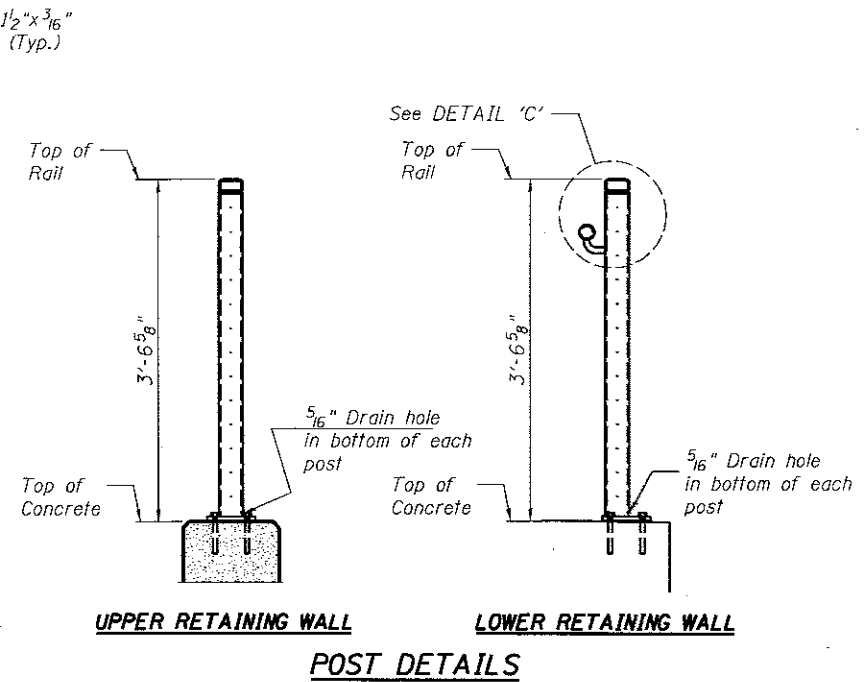
SHEET NO. 24 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				

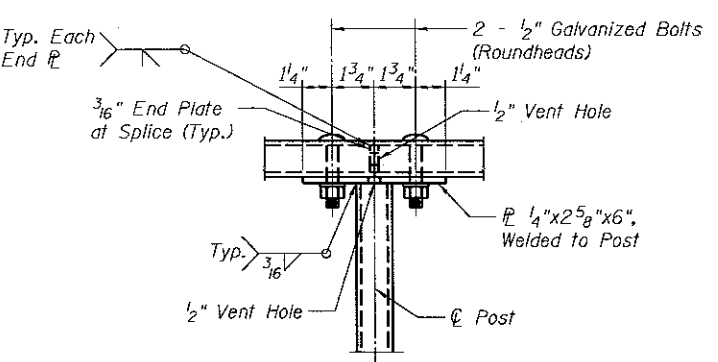


**TYPICAL RAILING PANEL**

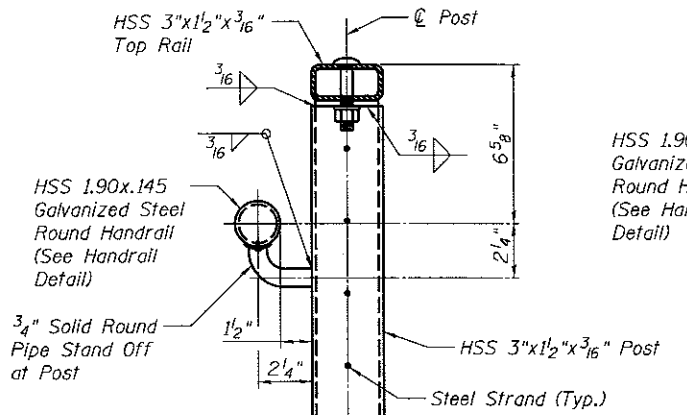
**INTERMEDIATE TENSIONING POSTS**



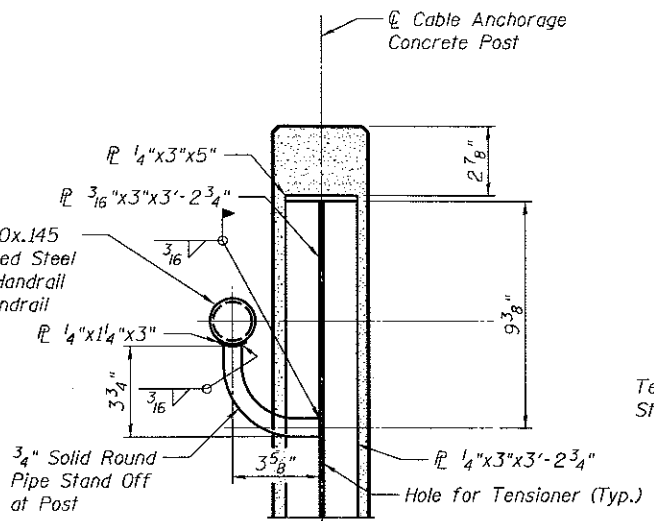
**UPPER RETAINING WALL  
LOWER RETAINING WALL  
POST DETAILS**



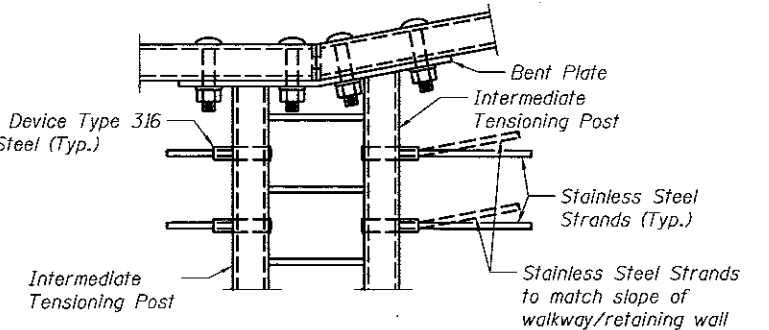
**TOP RAIL - WITH SPLICE**



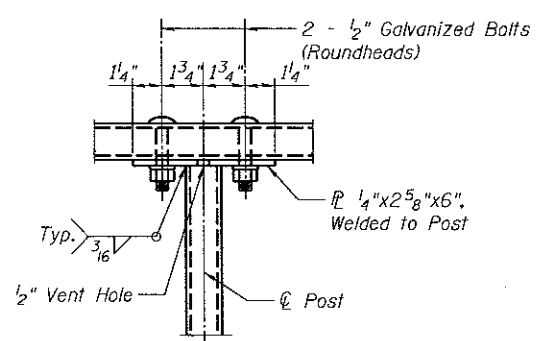
**DETAIL 'C'**



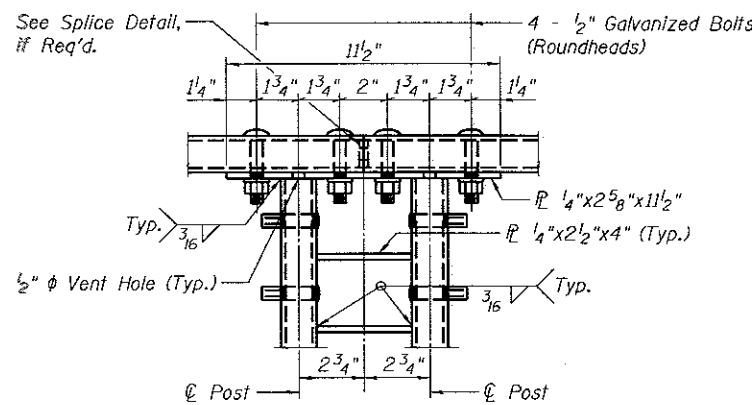
**DETAIL 'C'  
CABLE ANCHORAGE CONCRETE POST**



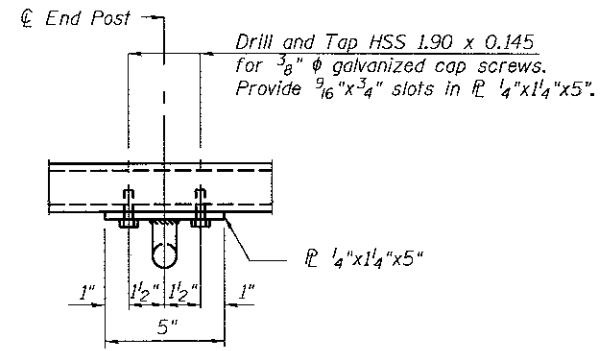
**INTERMEDIATE TENSIONING POSTS  
(At Grade Change Only)**



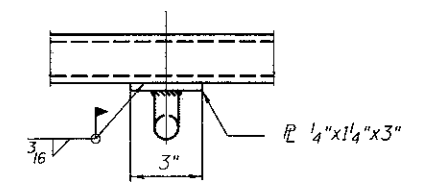
**TOP RAIL - NO SPLICE**



**TOP PLATE  
INTERMEDIATE TENSIONING POSTS**



**HANDRAIL DETAIL**



**HANDRAIL DETAIL  
CABLE ANCHORAGE CONCRETE POST**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Steel Railing (Special)	Foot	1613

Notes:

Railing posts shall be vertical.

Anchor rods shall be ASTM F1554, Gr. 55, galvanized steel all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor rods may be used in lieu of ASTM F1554. The anchor rods shall be hot-dipped galvanized according to AASHTO M232, Class C.

Tube segments shall have all corners ground to remove burrs or sharp projections.

All bolts, eyebolts, nuts and washers must satisfy the requirements of ASTM A307 Gr. A unless noted otherwise.

The anchor rods shall be installed according to Article 509.06 of the Standard Specifications. Embedment shall be 4" min. or according to the manufactures specifications whatever is greater.

Structural steel plates and bars of the Steel Railing shall conform to the requirements of ASTM A36/36M.

Tubular steel posts shall be according to the requirements of ASTM A500, Grade B.

All steel rail members, with the exception of the stainless steel strand and fittings, shall be hot dipped galvanized according to 509.05 of the Standard Specifications.

All studs shall be 1/2" phi x 4" granular or solid flux filled headed studs automatically end welded to plates.

See Sheets 11 thru 16 of 34 and Sheets 21 thru 24 of 34 for rail post spacing.

DESIGNED - RGC 6/11/14  
DRAWN - EJM 12/9/18  
REVIEWED - KMS 10/11/2018

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USER NAME = John80944  
DESIGNED - RGC  
CHECKED - KMS  
DRAWN - EJM  
REVIEWED - KMS  
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PLOT DATE = 5/25/2017

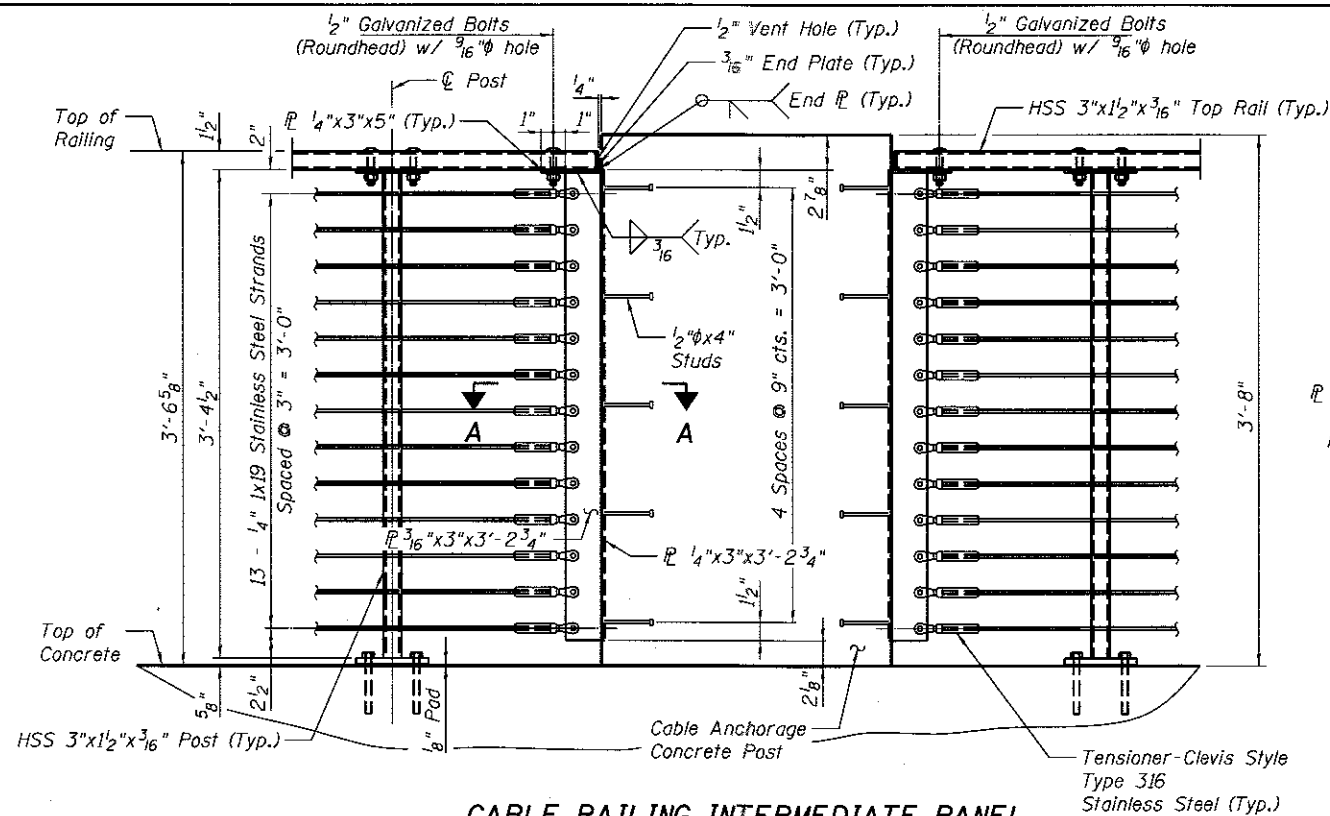
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CHECKED - KMS  
DRAWN - EJM  
REVIEWED - KMS

DESIGNED - RGC  
CHECKED - KMS  
DRAWN - EJM  
REVIEWED - KMS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

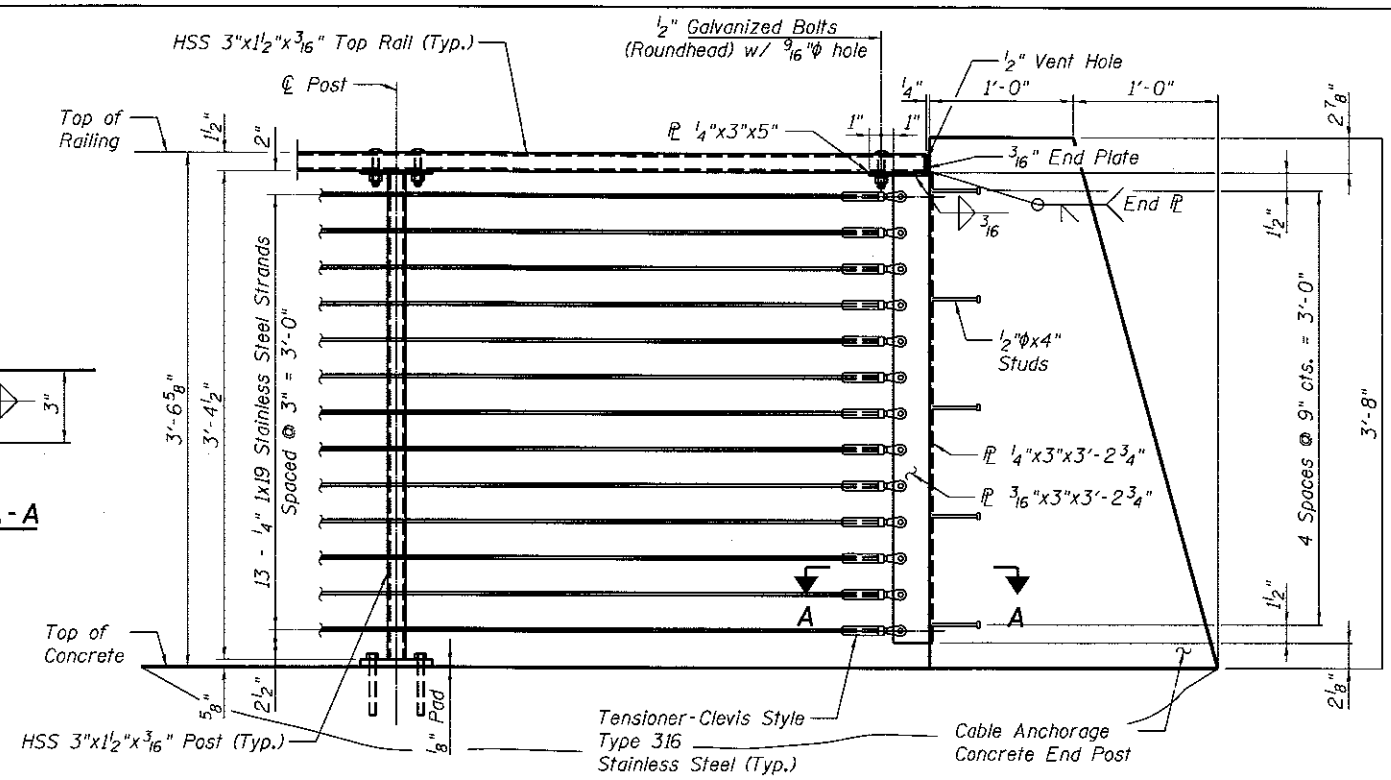
RAILING DETAILS  
ASH STREET RETAINING WALLS  
SHEET NO. 25 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93704				
ILLINOIS FED. AID PROJECT				



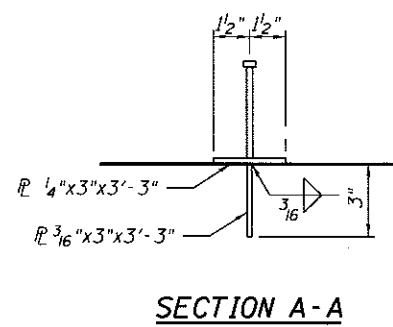
**CABLE RAILING INTERMEDIATE PANEL**

(Lower Retaining Wall Only)

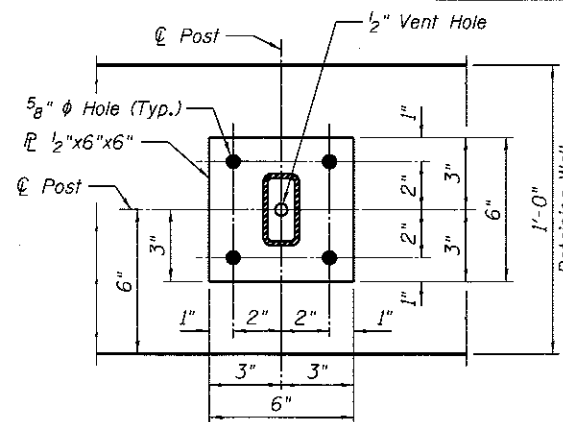


**CABLE RAILING END PANEL**

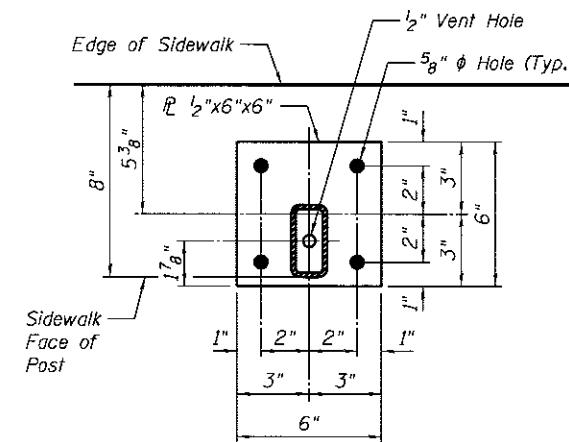
(Upper & Lower Retaining Walls)



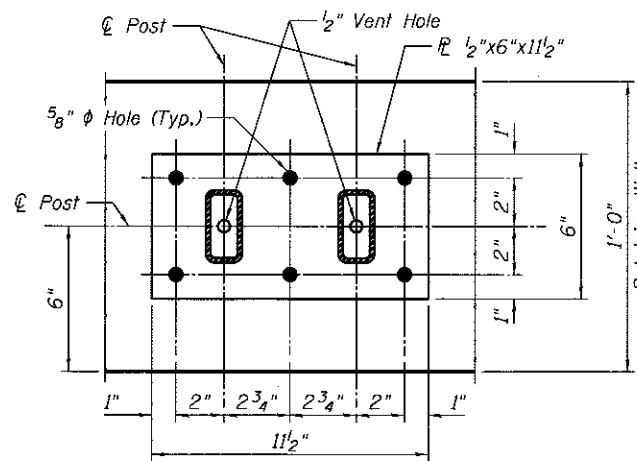
**SECTION A-A**



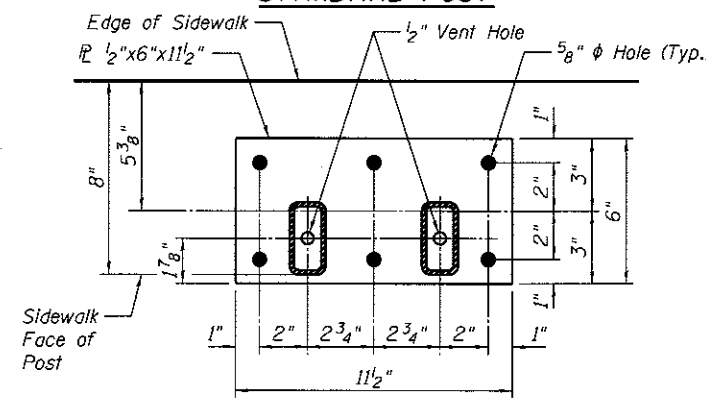
**STANDARD POST**



**STANDARD POST**



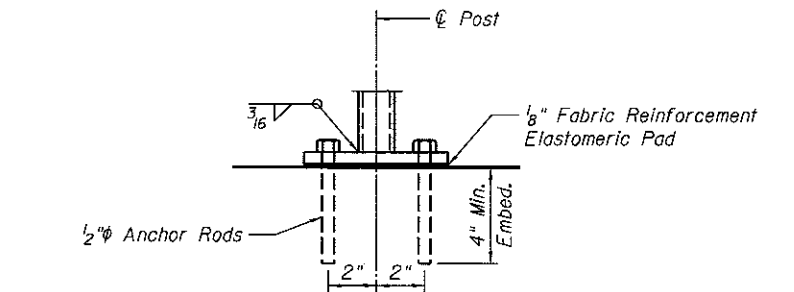
**INTERMEDIATE TENSIONING POSTS**



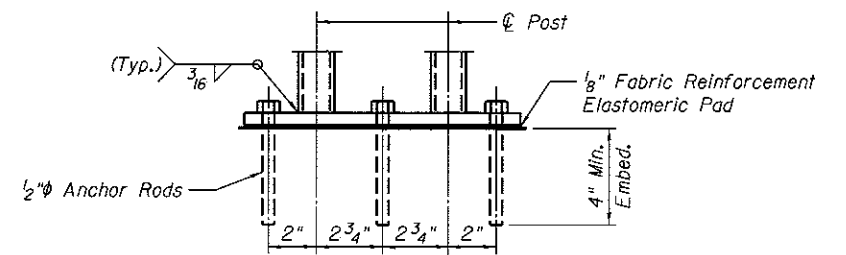
**INTERMEDIATE TENSIONING POSTS**

**BASE PLATE DETAILS**  
(Upper Retaining Walls)

**BASE PLATE DETAILS**  
(Lower Retaining Walls)



**STANDARD POST**



**INTERMEDIATE TENSIONING POSTS**

**TYPICAL ANCHOR ROD DETAILS**

FINAL  
DESIGNED  
DRAWN  
REVIEWED

6/11/14  
12/9/14  
10/11/2016

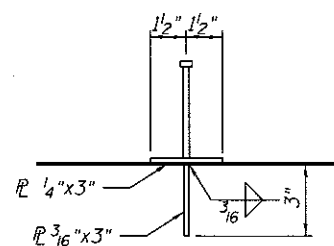
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		DRAWN	-
		EJM	-
		REVIEWED	-
		MMS	-
		DATE	-
		2/24/2017	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

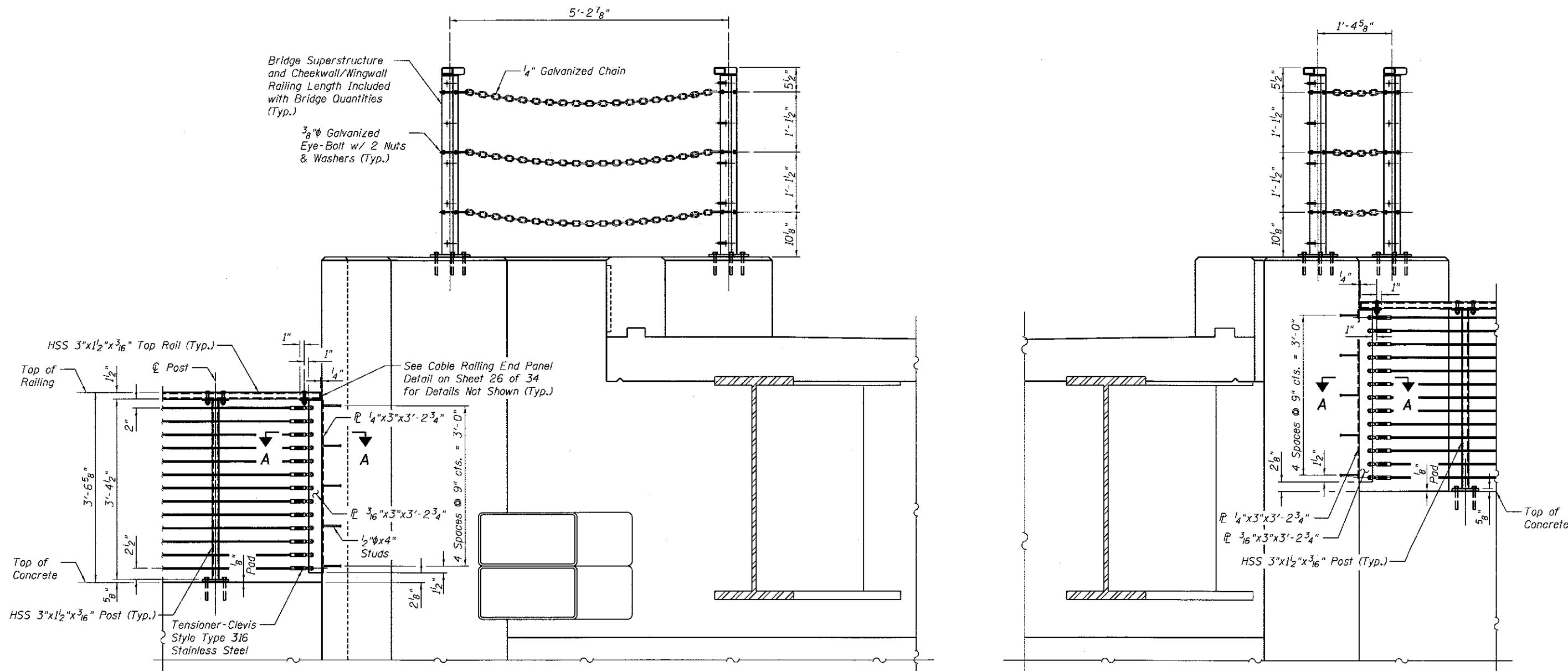
RAILING DETAILS  
ASH STREET RETAINING WALLS

SHEET NO. 26 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	311
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



**SECTION A-A**



**RETAINING WALL RAILING**

(At NSRR Bridge, Looking South at South Abutment, North Abutment Similar)

Note: Horizontal Dimensions Along Retaining Wall

**FINAL**  
 DESIGNED - RGC 6/11/14  
 DRAWN - EJM 12/9/14  
 REVIEWED - RMS 10/17/2016

FILE NAME = p:\p1\avr\386.henson.dom\hanson\_projects\Documents\09\Jobs\09\_01798\CA0\Struct\Ash-10\h\Sheets\09\_01798-Ash\RetainingWall\Plans

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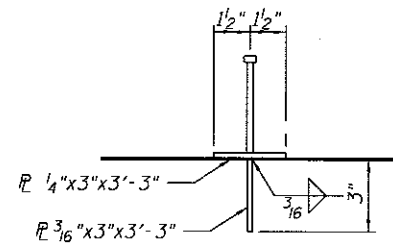
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS  
ASH STREET RETAINING WALLS**

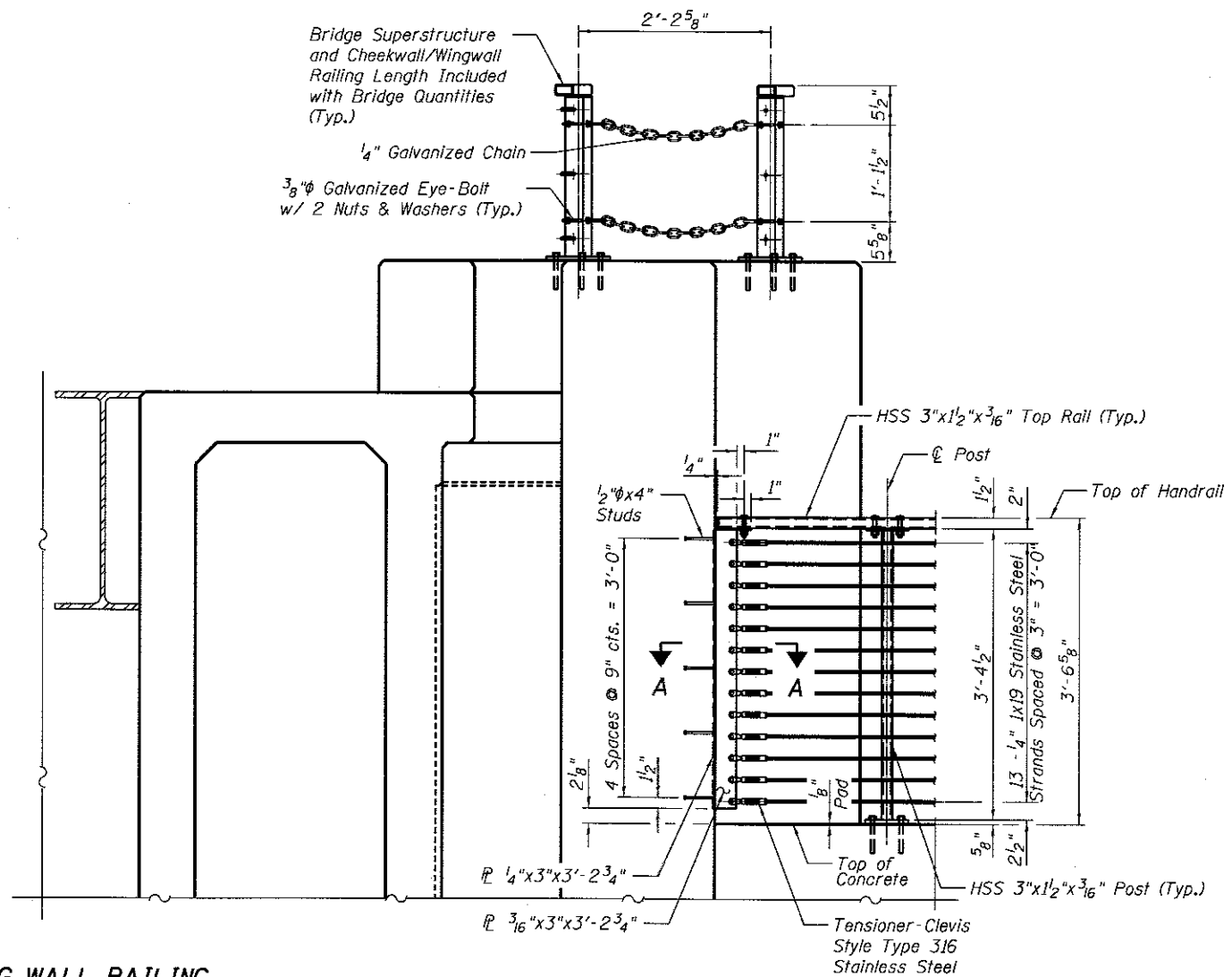
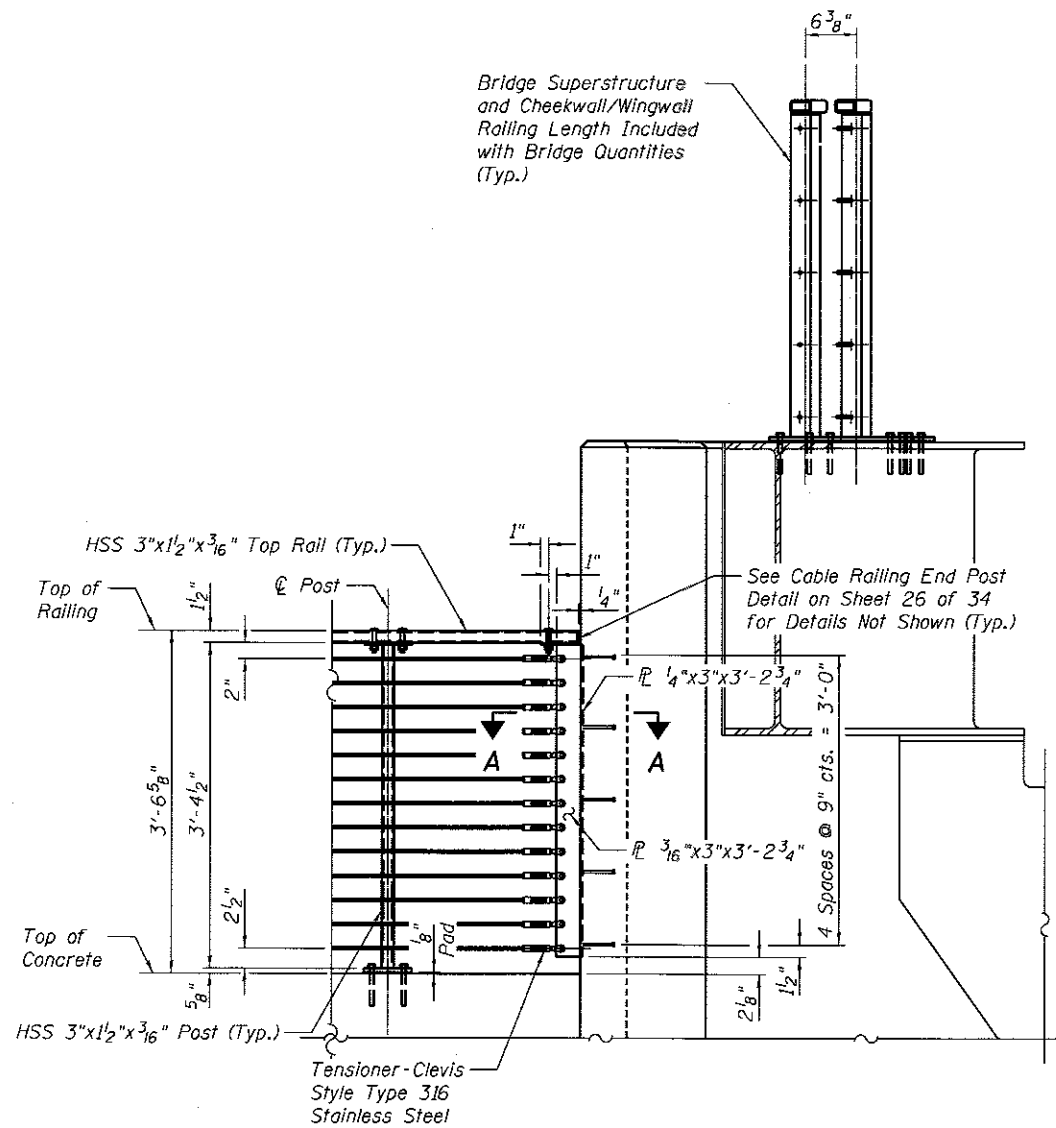
SHEET NO. 27 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	312
CONTRACT NO. 93704				
ILLINOIS FED. AID PROJECT				





**SECTION A-A**



**RETAINING WALL RAILING**

(At UPRR Bridge, Looking South at South Abutment, North Abutment Similar)

Note: Horizontal Dimensions Along Retaining Wall

**FINAL**  
 DESIGNED: RGC 6/11/14  
 DRAWN: EJM 12/9/14  
 REVIEWED: KMS 10/17/2015

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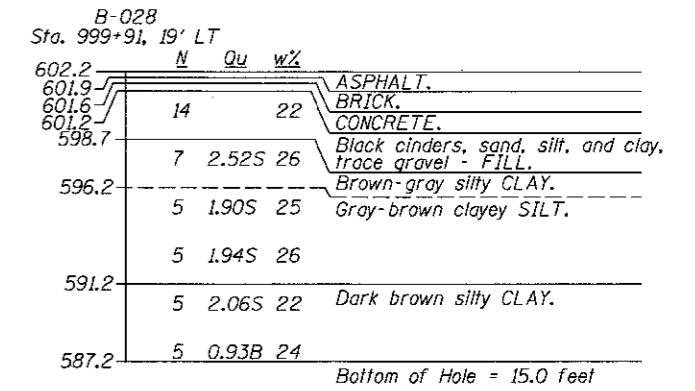
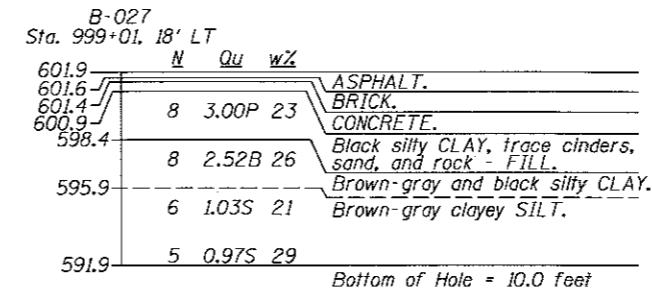
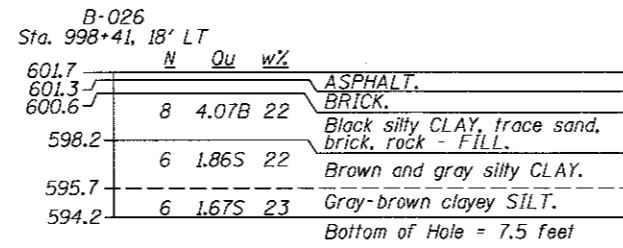
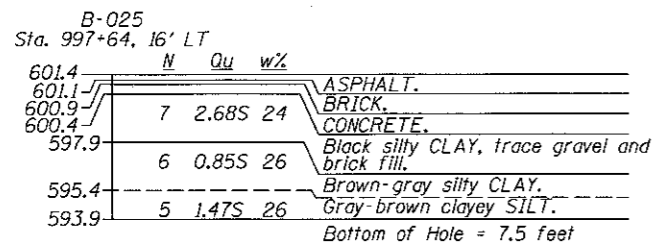
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		CHECKED - KMS	REVISIONS
		DRAWN - EJM	REVISIONS
		CHECKED - RGC	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS  
ASH STREET RETAINING WALLS**

SHEET NO. 28 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	313
CONTRACT NO. 93704				
ILLINOIS FED. AID PROJECT				



**LEGEND**

N Standard Penetration Test N (blows/ft)  
 Qu Unconfined Strength (tsf)  
 w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
 558.10 DD = during drilling  
 Oh = at completion  
 24h = 24 hours after completion

FINAL  
 DESIGNED - RGC 6/11/14  
 DRAWN - EJM 12/9/14  
 REVIEWED - KMS 07/17/2016

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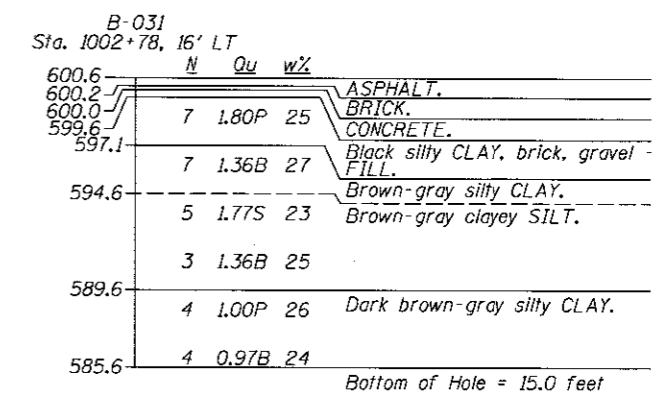
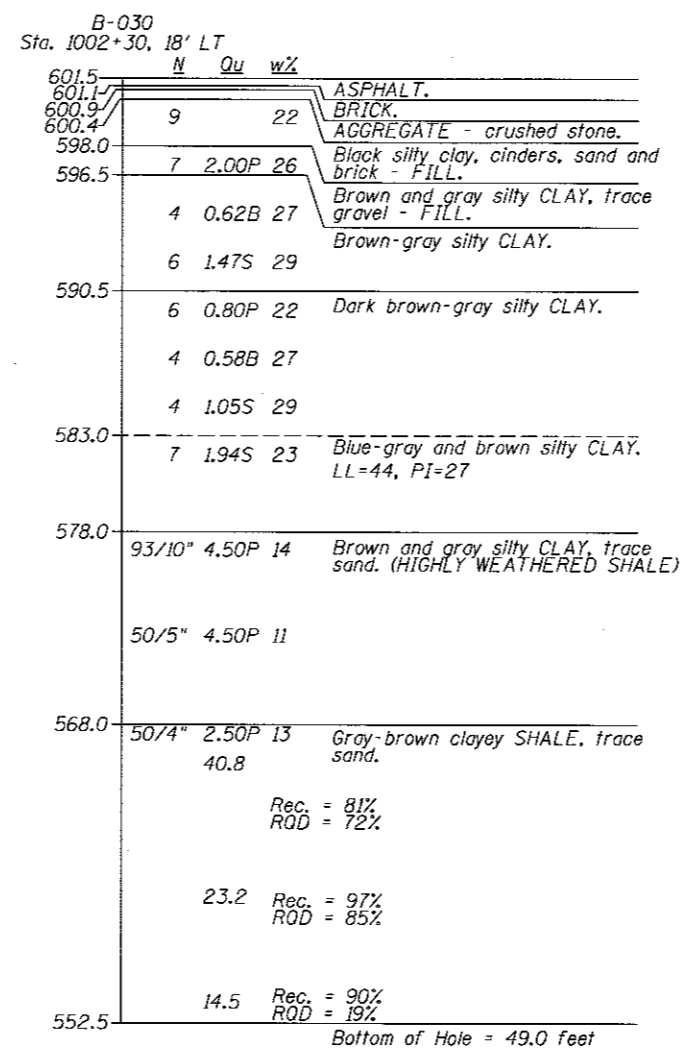
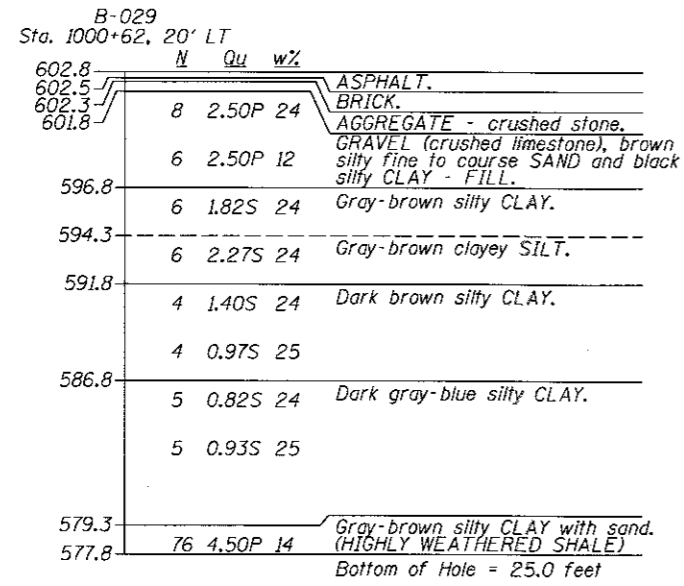
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PLOT DATE = 2/24/2017	CHECKED - RGC	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBSURFACE DATA PROFILE  
 ASH STREET RETAINING WALLS

SHEET NO. 29 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	314
CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	



**LEGEND**

- N Standard Penetration Test N (blows/ft)
- Qu Unconfined Strength (tsf)
- w% Natural Moisture Content (%)
- DD Water Surface Elevation Encountered in Boring
- DD = during drilling
- Oh = at completion
- 24h = 24 hours after completion

FINAL  
 DESIGNED RGC 6/11/14  
 DRAWN EJM 12/9/14  
 REVIEWED KMS 10/11/2016

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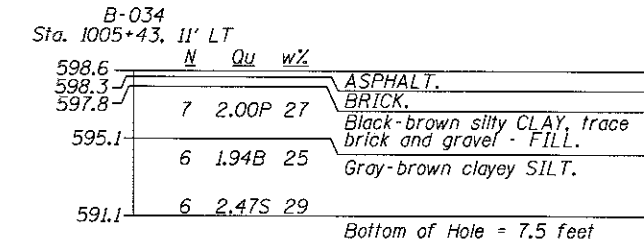
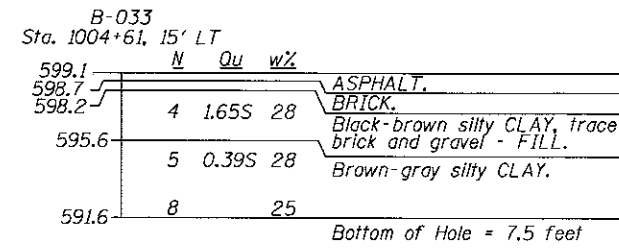
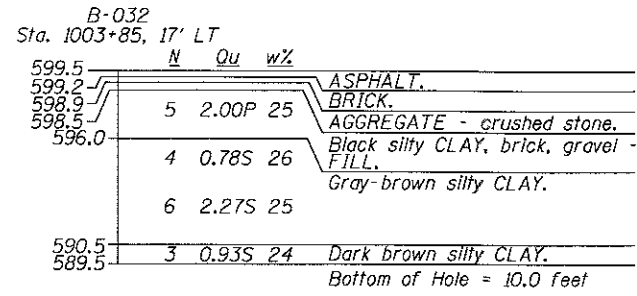
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	CHECKED - RGC	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUBSURFACE DATA PROFILE**  
**ASH STREET RETAINING WALLS**

SHEET NO. 30 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	315
CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	



**LEGEND**

N Standard Penetration Test N (blows/ft)  
 Qu Unconfined Strength (tsf)  
 w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
 558.10 DD = during drilling  
 Oh = at completion  
 24h = 24 hours after completion

FINAL  
 DESIGNED: RGC 6/11/14  
 DRAWN: EJM 12/9/14  
 REVIEWED: RMS 10/01/2016

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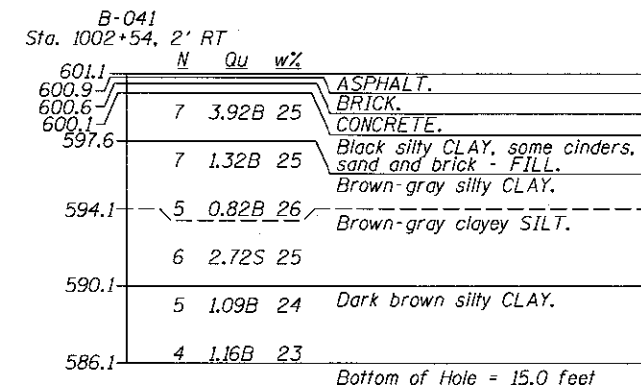
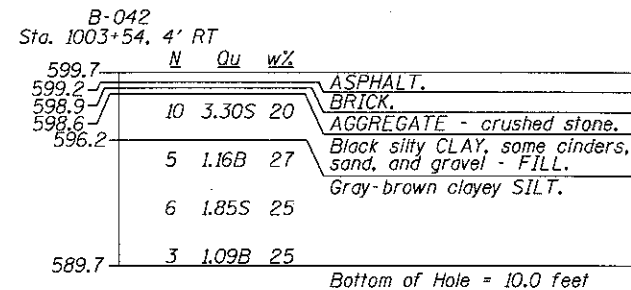
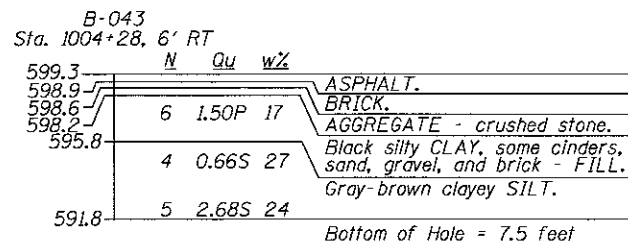
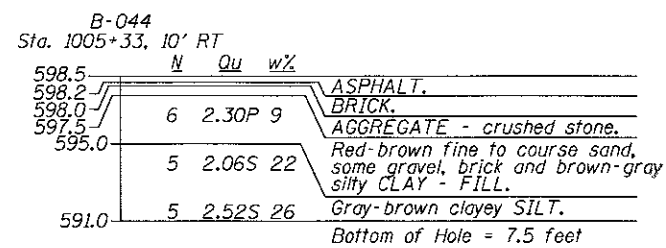
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	CHECKED - RGC	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBSURFACE DATA PROFILE  
 ASH STREET RETAINING WALLS

SHEET NO. 31 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	316
CONTRACT NO. 93704				
ILLINOIS FED. AID PROJECT				



LEGEND

N Standard Penetration Test N (blows/ft)  
 Qu Unconfined Strength (tsf)  
 w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
 558.10 DD = during drilling  
 Oh = at completion  
 24h = 24 hours after completion

FINAL  
 DESIGNED RGC 6/11/14  
 DRAWN EJM 12/9/14  
 REVIEWED KMS 07/17/2016

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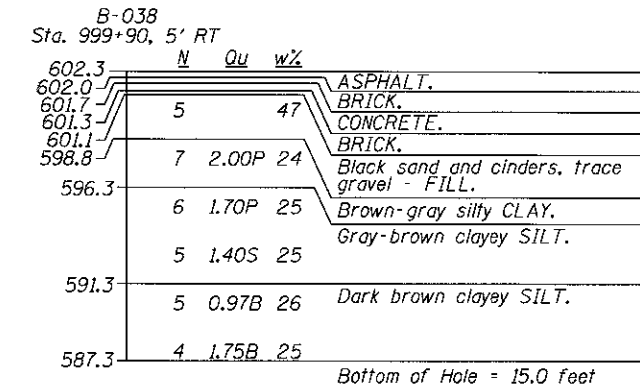
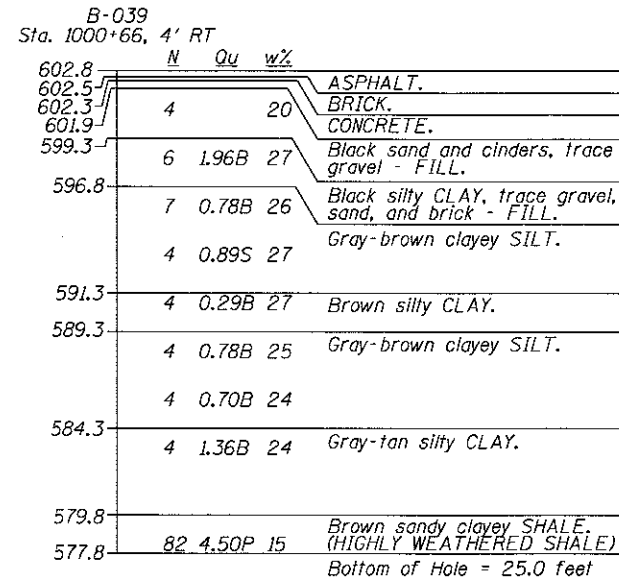
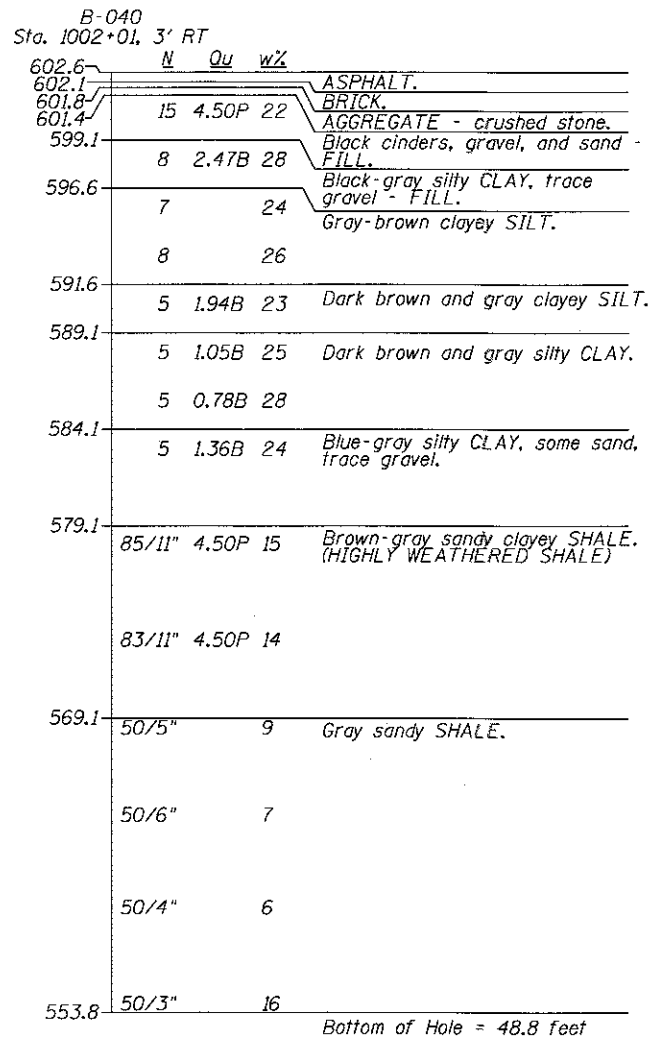
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PLOT DATE = 2/24/2017	CHECKED - RGC	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBSURFACE DATA PROFILE  
 ASH STREET RETAINING WALLS

SHEET NO. 32 OF 34 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	317
CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	



**LEGEND**

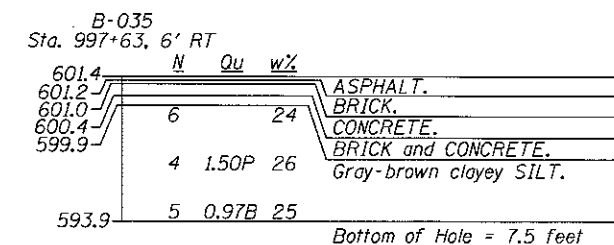
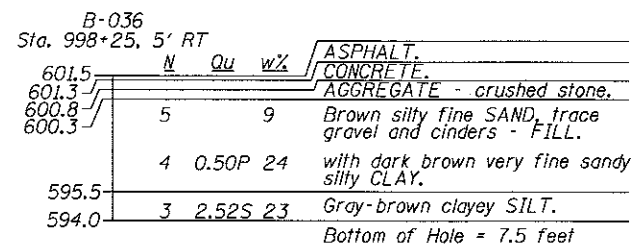
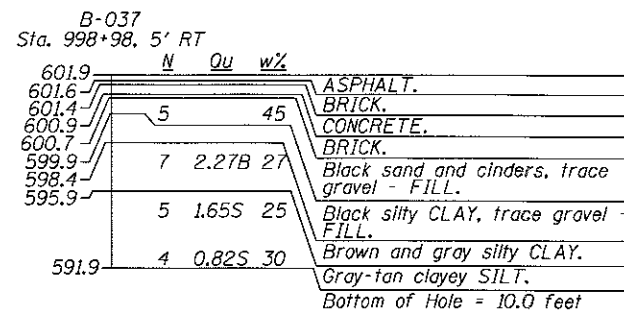
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- Qu Unconfined Strength (tsf)
- w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
 DD = during drilling  
 Oh = at completion  
 24h = 24 hours after completion

FINAL  
 DESIGNED REC 6/11/14  
 DRAWN EJM 12/9/14  
 REVIEWED KMS 10/17/2016

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**LEGEND**

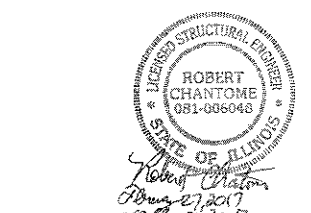
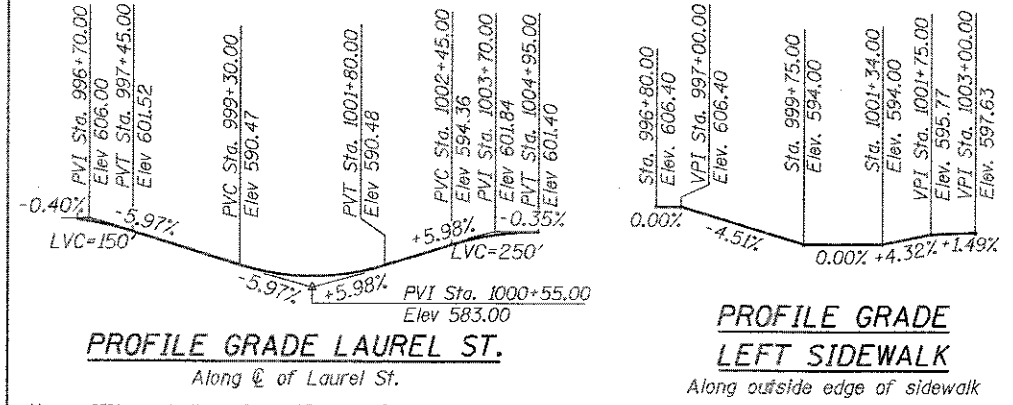
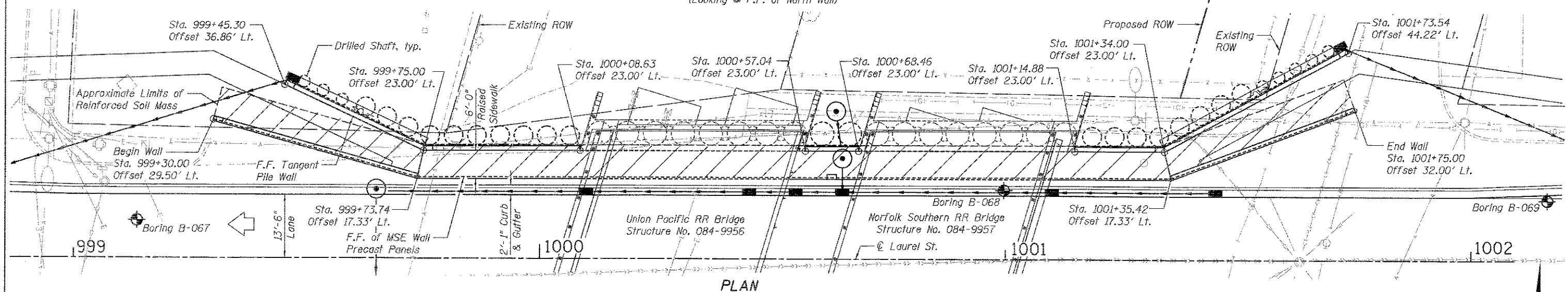
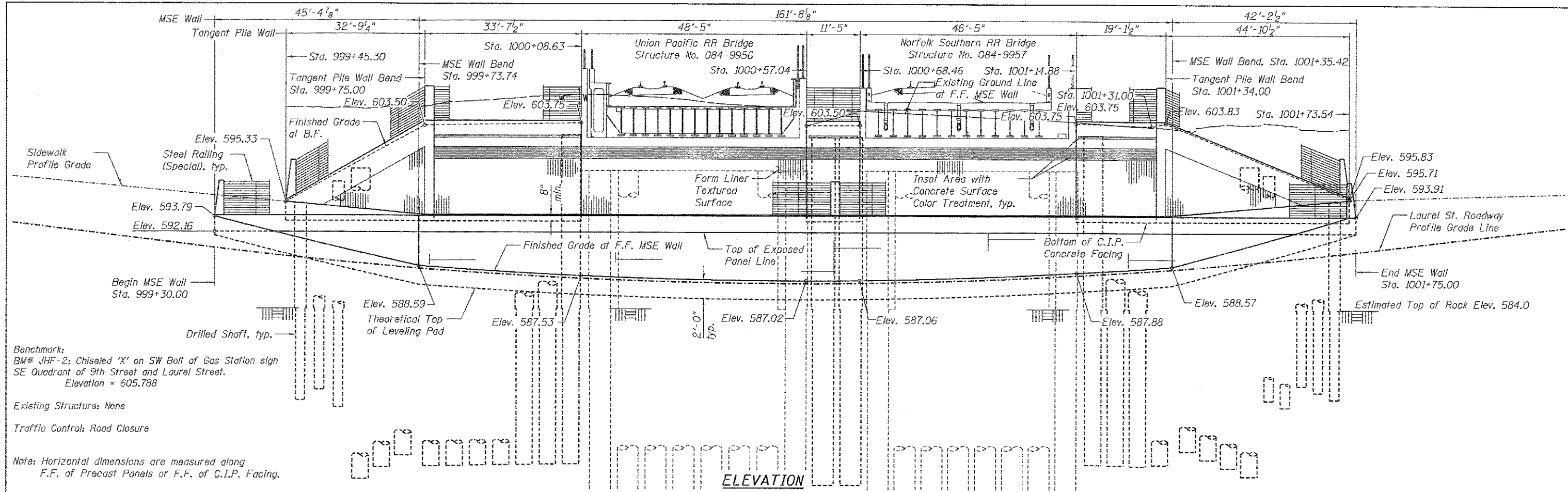
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 Qu Unconfined Strength (tsf)  
 w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
 558.10 DD = during drilling  
 Oh = at completion  
 24h = 24 hours after completion

FINAL  
 DESIGNED RGC 6/11/14  
 DRAWN EJM 12/9/14  
 REVIEWED KMS 10/17/2016

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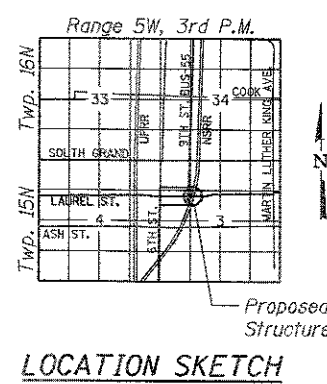
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	PLOT DATE = 2/24/2017	DRAWN - EJM	REVISED -			CONTRACT NO. 93704				
		CHECKED - RGC	REVISED -			ILLINOIS FED. AID PROJECT				



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

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 4,000 psi  
fy = 60,000 psi (Reinforcement)  
**PRECAST UNITS**  
f'c = 4,500 psi (Precast Panels)



Note: Wall offsets are measured from @ Laurel Street to the front face of precast panels or C.I.P. Facing.

F.F. - Front Face  
B.F. - Back Face

**GENERAL PLAN (SHEET 1 OF 2)**  
**NORTH WALL-LAUREL ST.**  
F.A.U. 7991-SECTION 14-00477-00-BR  
SANGAMON COUNTY  
STATION 999+25.68 TO 1001+75.00

FINAL  
DESIGNED: RGC 3/30/15  
DRAWN: EJM 3/30/15  
REVIEWED: KMS 10/17/2015

USER NAME = pop88275	DESIGNED - KMS	REVISION -
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PLOT DATE = 2/27/2017	DRAWN - EJM	REVISION -
	CHECKED - RGC	REVISION -

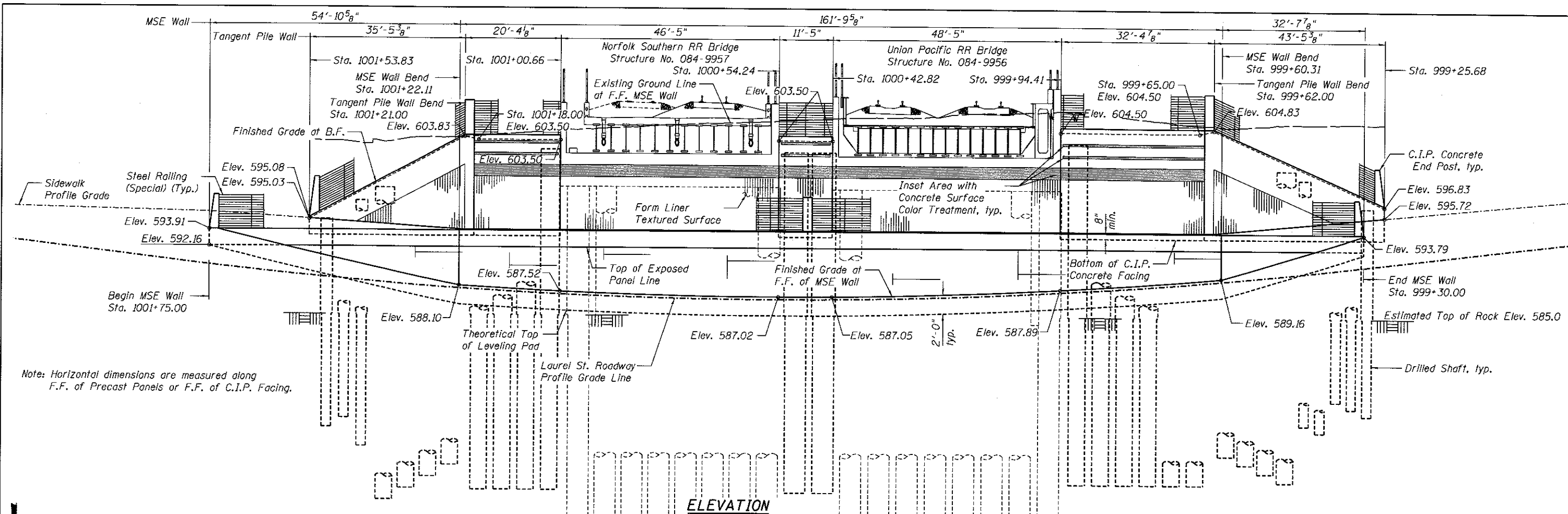
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION (NORTH)  
LAUREL STREET RETAINING WALLS  
SHEET NO. 1 OF 22 SHEETS

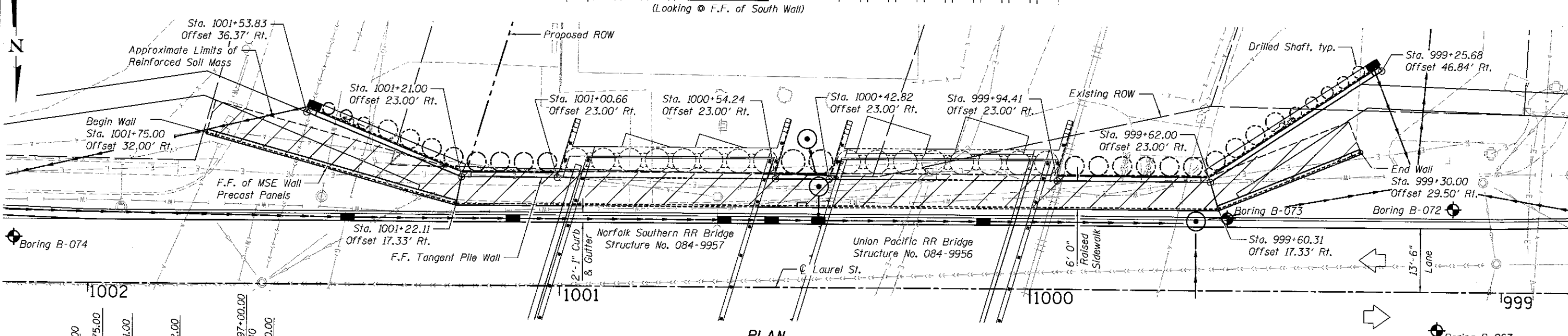
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14-00477-00-BR		SANGAMON	403	320
			CONTRACT NO. 93704	

ILLINOIS FED. AID PROJECT

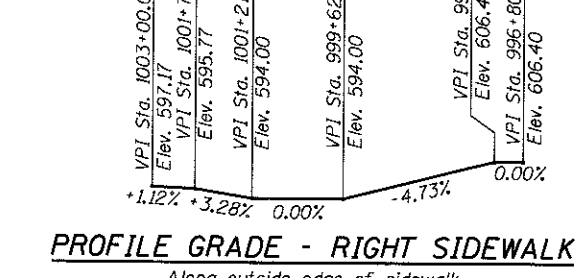




**ELEVATION**  
(Looking @ F.F. of South Wall)



**PLAN**



**PROFILE GRADE - RIGHT SIDEWALK**  
Along outside edge of sidewalk

Note: Wall offsets are measured from @ Laurel Street to the front face of precast panels or C.I.P. Facing.

F.F. - Front Face  
B.F. - Back Face

**GENERAL PLAN (SHEET 2 OF 2)**  
**SOUTH WALL - LAUREL ST.**  
**F.A.U. 7991-SECTION 14-00477-00-BR**  
**SANGAMON COUNTY**  
**STATION 999+25.68 TO 1001+75.00**

FINAL  
DESIGNED: RCC 3/30/15  
DRAWN: EJM 3/30/15  
REVIEWED: KMS 10/11/2016

Project: 386-hanson.damihanson Projects\Documents\09Jobs\091817\B\CAD\Struct\Laurel\Sheet\091817\98-RetainingWallPlans

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PLOT DATE = 2/24/2017	DRAWN - EJM	REVISD -
	CHECKED - RCC	REVISD -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION (SOUTH)**  
**LAUREL STREET RETAINING WALLS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	321
				CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

SHEET NO. 2 OF 22 SHEETS

**INDEX OF SHEETS**

1. General Plan & Elevation (North)
2. General Plan & Elevation (South)
3. General Data
4. Drilled Shafts - North Wall
5. Drilled Shafts - South Wall
6. Drilled Shaft Details
7. Concrete Facing - North Wall
8. Concrete Facing - North Wall
9. Concrete Facing - South Wall
10. Concrete Facing - South Wall
11. Concrete Facing Details
12. MSE Unfolded Elevation - North Wall
13. MSE Unfolded Elevation - South Wall
14. MSE Details
15. Anchorage Slab - North Wall
16. Anchorage Slab - South Wall
17. Railing Details
18. Railing Details
19. Railing Details
20. Railing Details
21. Subsurface Data Profile
22. Subsurface Data Profile

**WALL CONTROL POINTS**

Control Point	Station	Offset
1	999+45.30	36.86' LT
2	999+75.00	23.00' LT
3	1000+08.63	23.00' LT
4	1000+57.04	23.00' LT
5	1000+68.46	23.00' LT
6	1001+14.88	23.00' LT
7	1001+34.00	23.00' LT
8	1001+73.54	44.22' LT
9	1001+53.83	36.37' RT
10	1001+21.00	23.00' RT
11	1001+00.66	23.00' RT
12	1000+54.24	23.00' RT
13	1000+42.82	23.00' RT
14	999+94.41	23.00' RT
15	999+62.00	23.00' RT
16	999+25.68	46.84' RT
17	999+30.00	29.50' LT
18	999+73.74	17.33' LT
19	1001+35.42	17.33' LT
20	1001+75.00	32.00' LT
21	1001+75.00	32.00' RT
22	1001+22.11	17.33' RT
23	999+60.31	17.33' RT
24	999+30.00	29.50' RT

Control Points 1-16 are to Front Face of C.I.P. Facing.  
Control Points 17-24 are to Front Face of Precast Panels.

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All substructure concrete shall have a compressive strength of 4,000 psi at 28 days.

**SUGGESTED SEQUENCE OF CONSTRUCTION**

Note: See UPRR Bridge Plans (084-9954) for General Construction Sequence.

1. Construct drilled shafts for upper wall.
2. Complete roadway excavation while working under the new NS Railroad Bridge.
3. Construct lower (MSE) wall up to bottom of C.I.P. Facing of upper wall.
4. Construct C.I.P. Facing in front of drilled shafts.
5. Complete upper portion of lower wall.
6. Construct cast-in-place anchorage slab.
7. Complete backfill behind upper wall.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	26
Concrete Structures	Cu. Yd.	166.7
Form Liner Textured Surface	Sq. Ft.	1337
Reinforcement Bars	Pound	153350
Reinforcement Bars, Epoxy Coated	Pound	15640
Drilled Shaft in Soil	Cu. Yd.	378.6
Drilled Shaft in Rock	Cu. Yd.	293.7
Concrete Sealer	Sq. Ft.	7152
Geocomposite Wall Drain	Sq. Yd.	131
Anti-Graffiti Protection System	Sq. Ft.	194
Concrete Surface Color Treatment	Sq. Ft.	194
Steel Railing (Special)	Foot	756
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2657
Pipe Underdrains for Structures 4"	Foot	864

FINAL  
 DESIGNED: RGC 3/30/15  
 DRAWN: EJM 3/30/15  
 REVIEWED: RMS 10/17/2016

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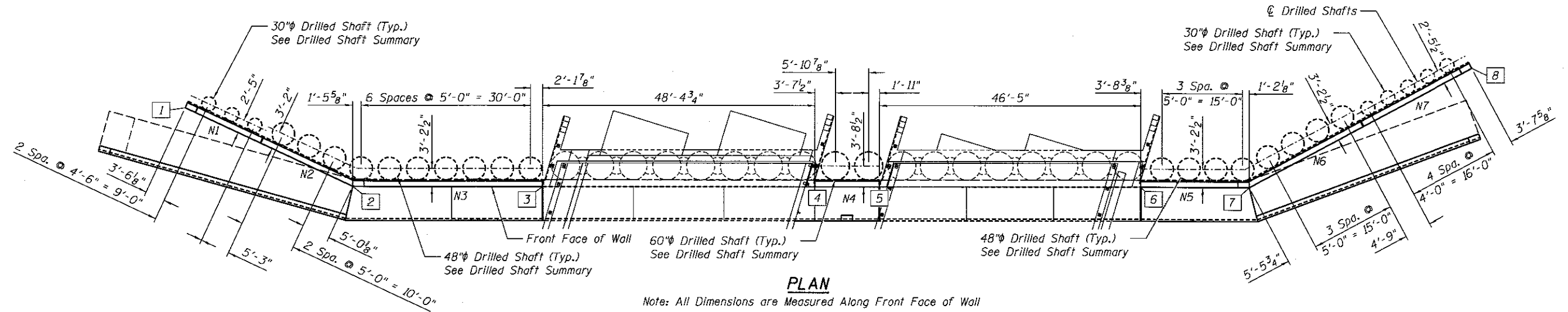
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
LAUREL STREET RETAINING WALLS**

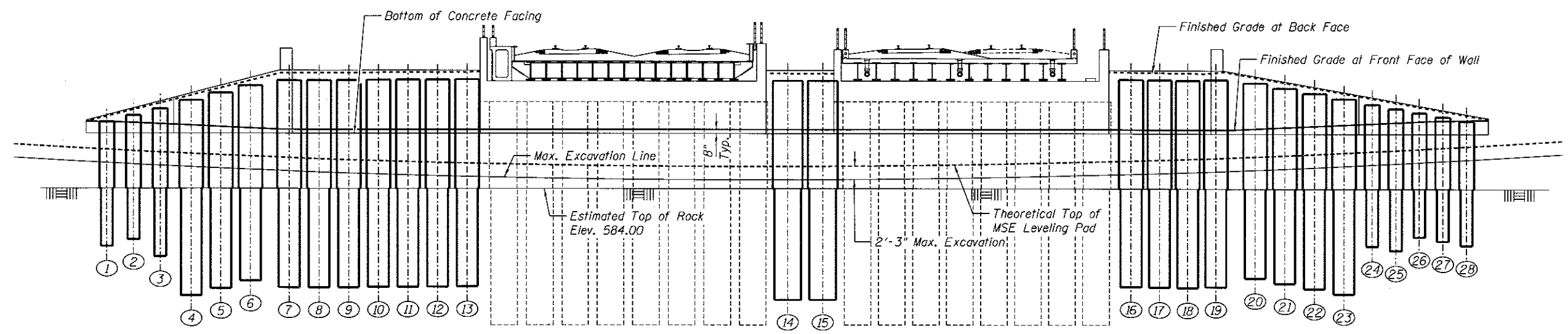
SHEET NO. 3 OF 22 SHEETS

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	14-00477-00-BR	SANGAMON	403	322
			CONTRACT NO.	93704
ILLINOIS FED. AID PROJECT				



**PLAN**

Note: All Dimensions are Measured Along Front Face of Wall



**ELEVATION**

Unfolded Along Face of Wall

**DRILLED SHAFT SUMMARY**

SHAFT NO.	CAGE DESIGNATION	LENGTH	BOTTOM ELEVATION	TOP ELEVATION	SHAFT NO.	CAGE DESIGNATION	LENGTH	BOTTOM ELEVATION	TOP ELEVATION
1	A1	21'-0"	574.24	595.24	15	C1	37'-0"	565.25	602.25
2	A1	21'-0"	575.36	596.36	16	B2	35'-0"	567.44	602.44
3	A2	25'-0"	572.48	597.48	17	B2	35'-0"	567.37	602.37
4	B1	33'-0"	565.87	598.87	18	B2	35'-0"	567.30	602.30
5	B1	33'-0"	567.12	600.12	19	B2	35'-0"	567.45	602.45
6	B1	33'-0"	568.37	601.37	20	B1	33'-0"	568.91	601.91
7	B2	35'-0"	567.26	602.26	21	B1	33'-0"	568.02	601.02
8	B2	35'-0"	567.30	602.30	22	B1	33'-0"	567.13	600.13
9	B2	35'-0"	567.34	602.34	23	B1	33'-0"	566.24	599.24
10	B2	35'-0"	567.37	602.37	24	A3	24'-0"	574.32	598.32
11	B2	35'-0"	567.41	602.41	25	A3	24'-0"	573.60	597.60
12	B2	35'-0"	567.45	602.45	26	A1	21'-0"	575.89	596.89
13	B2	35'-0"	567.48	602.48	27	A1	21'-0"	575.18	596.18
14	C1	37'-0"	565.25	602.25	28	A1	21'-0"	574.46	595.46

2 = Control Point

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Drilled Shafts in Soil	Cu. Yd.	192.5
Drilled Shafts in Rock	Cu. Yd.	142.6

FINAL  
 DESIGNED - RGC 3/30/15  
 DRAWN - EJM 3/30/15  
 REVIEWED - KMS 10/11/2015

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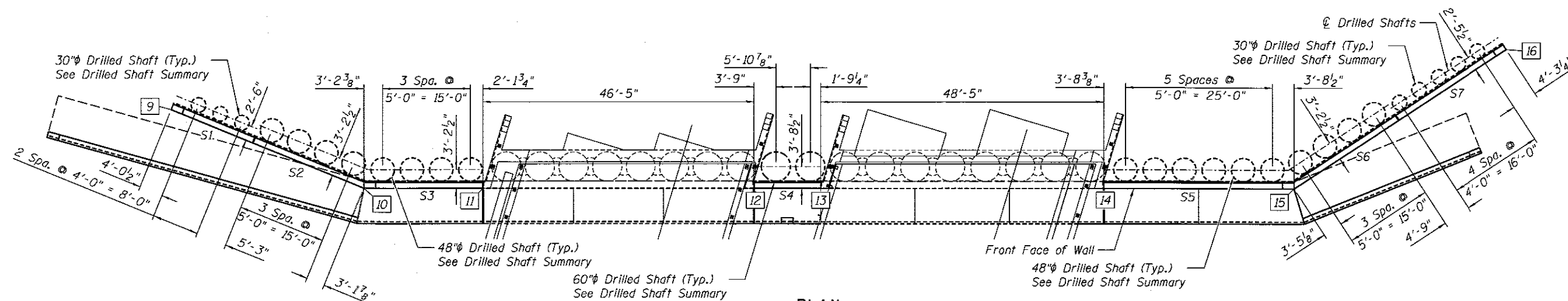
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	CHECKED - RGC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRILLED SHAFTS - NORTH WALL  
LAUREL STREET RETAINING WALLS**

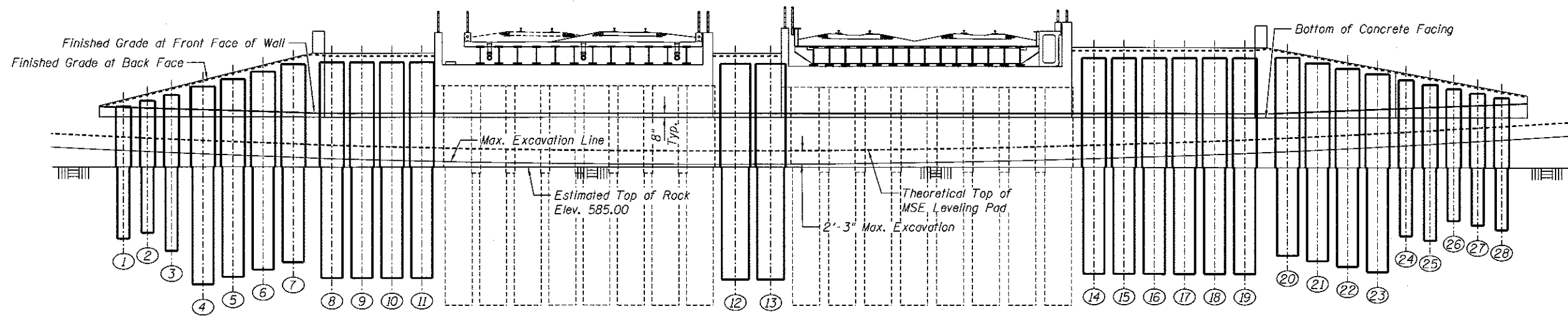
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	14-00477-00-BR	SANGAMON	403	323
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



**PLAN**

Note: All Dimensions are Measured Along Front Face of Wall



**ELEVATION**

Unfolded Along Face of Wall

**DRILLED SHAFT SUMMARY**

SHAFT NO.	CAGE DESIGNATION	LENGTH	BOTTOM ELEVATION	TOP ELEVATION	SHAFT NO.	CAGE DESIGNATION	LENGTH	BOTTOM ELEVATION	TOP ELEVATION
1	A4	22'-0"	573.04	595.04	15	B3	36'-0"	567.25	603.25
2	A4	22'-0"	574.03	596.03	16	B3	36'-0"	567.25	603.25
3	A5	26'-0"	571.02	597.02	17	B3	36'-0"	567.25	603.25
4	B1	33'-0"	565.40	598.40	18	B3	36'-0"	567.25	603.25
5	B1	33'-0"	566.64	599.64	19	B3	36'-0"	567.25	603.25
6	B1	33'-0"	567.88	600.88	20	B1	33'-0"	570.34	603.34
7	B1	33'-0"	569.12	602.12	21	B1	33'-0"	569.42	602.42
8	B3	36'-0"	566.25	602.25	22	B1	33'-0"	568.50	601.50
9	B3	36'-0"	566.25	602.25	23	B1	33'-0"	567.58	600.58
10	B3	36'-0"	566.25	602.25	24	A5	26'-0"	573.61	599.61
11	B3	36'-0"	566.25	602.25	25	A5	26'-0"	572.87	598.87
12	C2	36'-0"	566.25	602.25	26	A4	22'-0"	576.14	598.14
13	C2	36'-0"	566.25	602.25	27	A4	22'-0"	575.40	597.40
14	B3	36'-0"	567.25	603.25	28	A4	22'-0"	574.66	596.66

9 = Control Point

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Drilled Shafts in Soil	Cu. Yd.	186.1
Drilled Shafts in Rock	Cu. Yd.	151.1

FINAL  
 DESIGNED: RGC 3/30/15  
 DRAWN: EJM 3/30/15  
 REVIEWED: KMS 10/17/2016

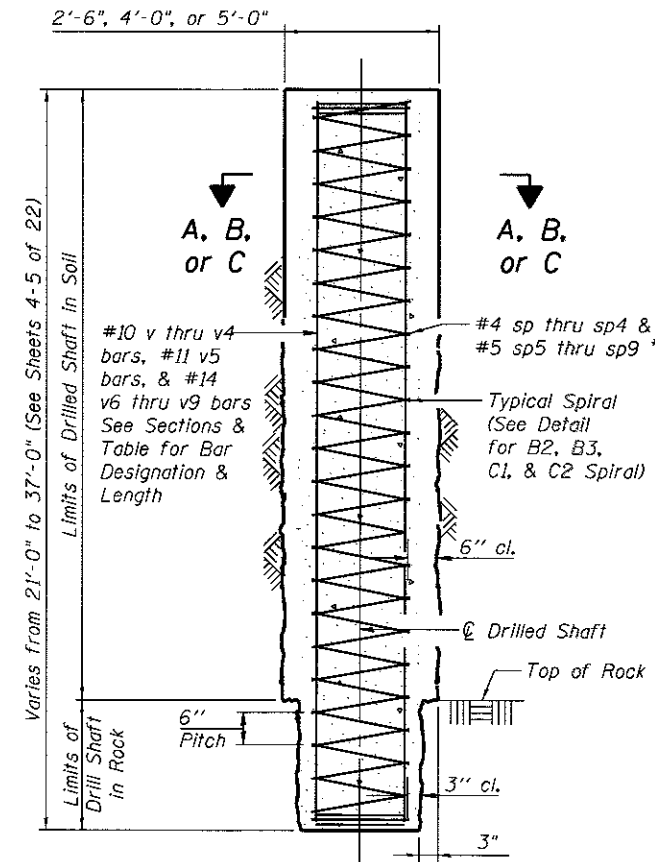
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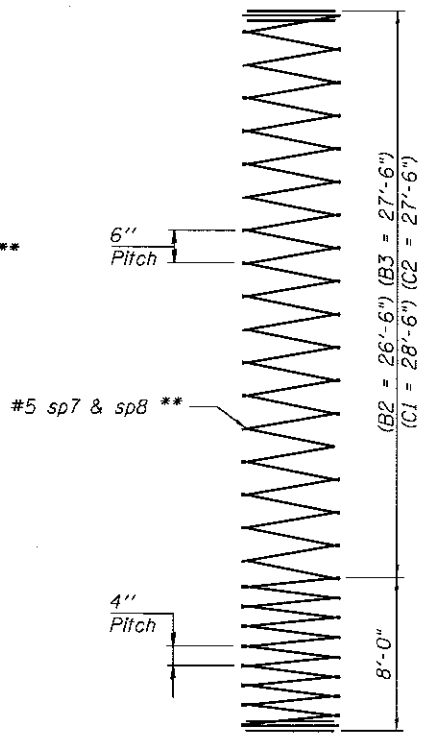
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DRILLED SHAFTS - SOUTH WALL**  
**LAUREL STREET RETAINING WALLS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	

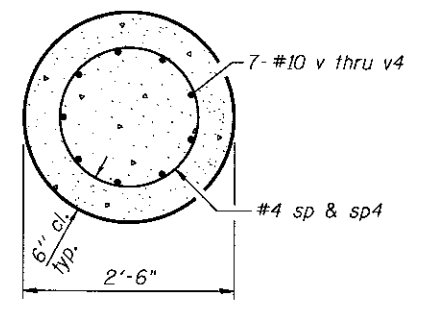


**DRILLED SHAFT ELEVATION IN ROCK**  
Showing Reinforcement

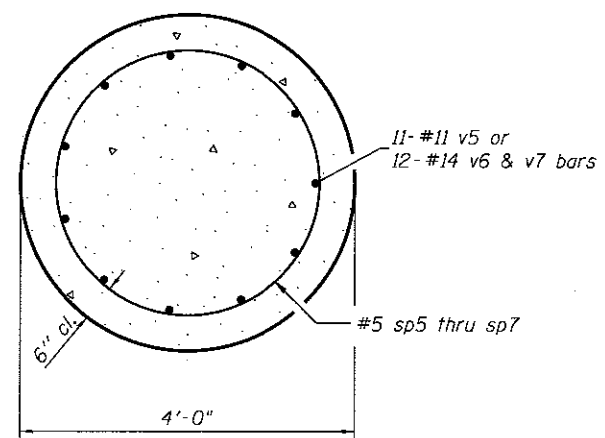


**B2, B3, C1, & C2 SPIRAL DETAIL**

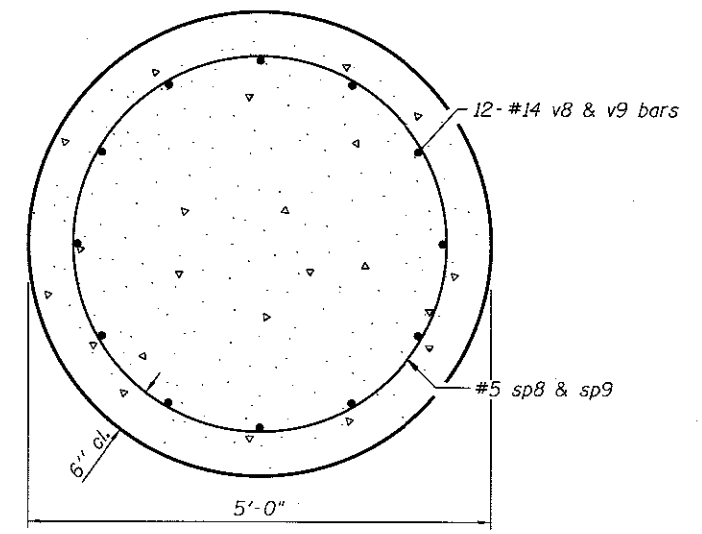
\*\* Provide 1/2 extra turns top and bottom of each drilled shaft.



**SECTION A-A**  
2'-6" Dia. Shafts  
(Cage Designations A1 - A5)



**SECTION B-B**  
4'-0" Dia. Shafts  
(Cage Designations B1 - B3)



**SECTION C-C**  
5'-0" Dia. Shafts  
(Cage Designation C1 & C2)

Cage Designation	Number Required	n	Bar Number	Size	Length	Shape	
A1	5	7	v	35	#8	20'-6"	——
A2	1	7	v1	7	#8	24'-6"	——
A3	2	7	v2	14	#8	23'-6"	——
A4	5	7	v3	35	#8	21'-6"	——
A5	3	7	v4	21	#8	25'-6"	——
B1	15	11	v5	165	#11	32'-6"	——
B2	11	12	v6	132	#14	34'-6"	——
B3	10	12	v7	120	#14	35'-6"	——
C1	2	12	v8	24	#14	36'-6"	——
C2	2	12	v9	24	#14	35'-6"	——
A1	5	1	sp	5	#4	*20'-6"	~~~~~
A2	1	1	sp1	1	#4	*24'-6"	~~~~~
A3	2	1	sp2	2	#4	*23'-6"	~~~~~
A4	5	1	sp3	5	#4	*21'-6"	~~~~~
A5	3	1	sp4	3	#4	*25'-6"	~~~~~
B1	15	1	sp5	15	#5	*32'-6"	~~~~~
B2	11	1	sp6	11	#5	*34'-6"	~~~~~
B3	10	1	sp7	10	#5	*35'-6"	~~~~~
C1	2	1	sp8	2	#5	*36'-6"	~~~~~
C2	2	1	sp9	2	#5	*35'-6"	~~~~~
Reinforcement Bars						Pound	153350

**MIN. BAR LAPS FOR SPIRALS**  
#4 Bars = 2'-0" #5 Bars = 2'-6"

\* Length is height of spiral.

FINAL  
DESIGNED REC 3/30/15  
DRAWN CM 3/30/15  
REVIEWED KMS 10/11/2015

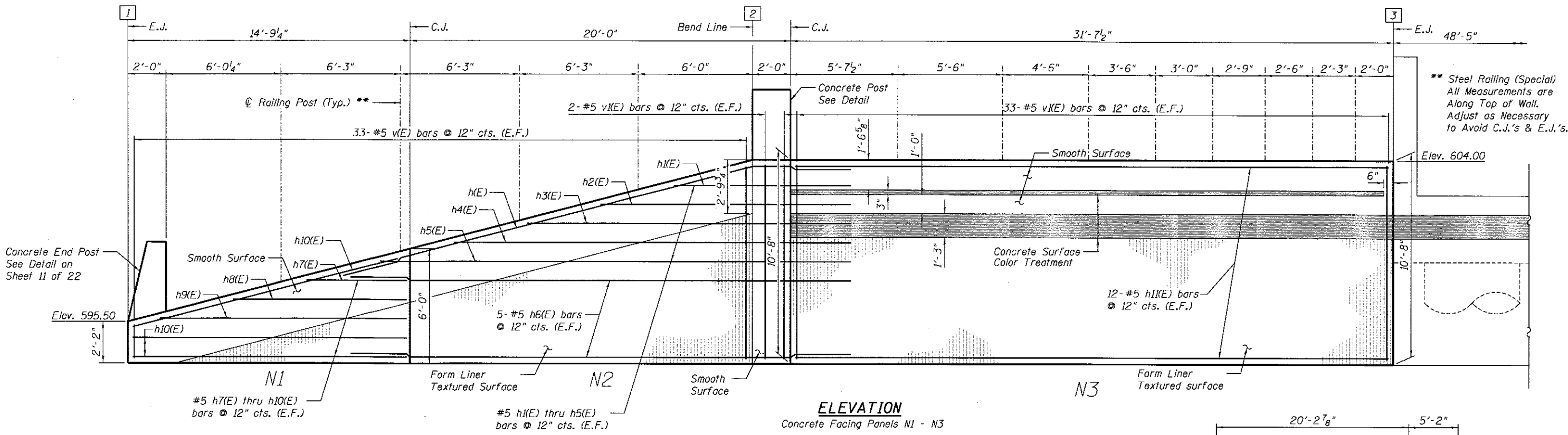
FILE NAME: p:\sp1\svr305.hanson.com\hanson\_projects\documents\09jobs\09\_01798\CAD\Struct\Laurel\Sheets\09\_01798-RetainingWallPlans  
USER NAME: pop00275  
DESIGNED - KMS  
CHECKED - RCC  
PLOT SCALE: 0.1667 / in.  
DRAWN - EJM  
PLOT DATE: 2/24/2017  
CHECKED - RGC  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRILLED SHAFT DETAILS  
LAUREL STREET RETAINING WALLS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	325
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				

SHEET NO. 6 OF 22 SHEETS

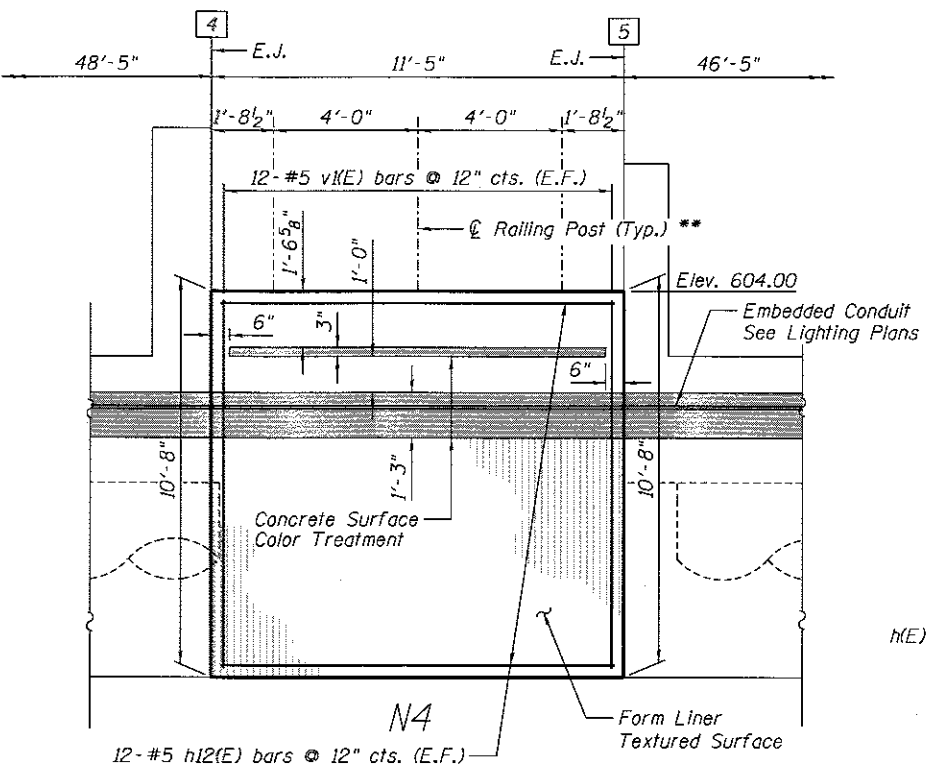


**ELEVATION**  
Concrete Facing Panels N1 - N3

Note: E.J. = Expansion Joint  
C.J. = Construction Joint  
E.F. = Each Face  
\* = Stagger Bars  
1 = Control Point

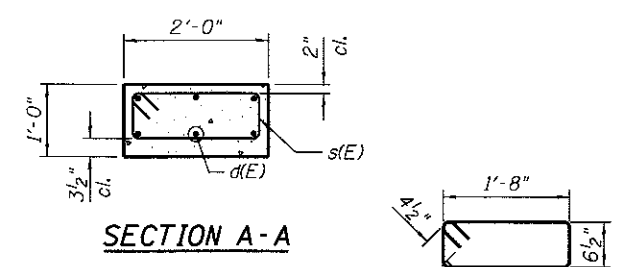
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	24	#4	5'-6"	
h(E)	2	#5	27'-6"	
h1(E)	2	#5	9'-3"	
h2(E)	2	#5	13'-1"	
h3(E)	2	#5	17'-0"	
h4(E)	2	#5	20'-10"	
h5(E)	2	#5	24'-8"	
h6(E)	10	#5	26'-3"	
h7(E)	2	#5	5'-2"	
h8(E)	2	#5	9'-1"	
h9(E)	2	#5	12'-11"	
h10(E)	6	#5	14'-4"	
h11(E)	24	#5	31'-3"	
h12(E)	24	#5	11'-1"	
s(E)	20	#4	5'-2"	
v(E)	33	#5	12'-2"	
v1(E)	94	#5	10'-4"	
Reinforcement Bars		Pound	3300	
Epoxy Coated				
Concrete Structures		Cu. Yd.	29.9	

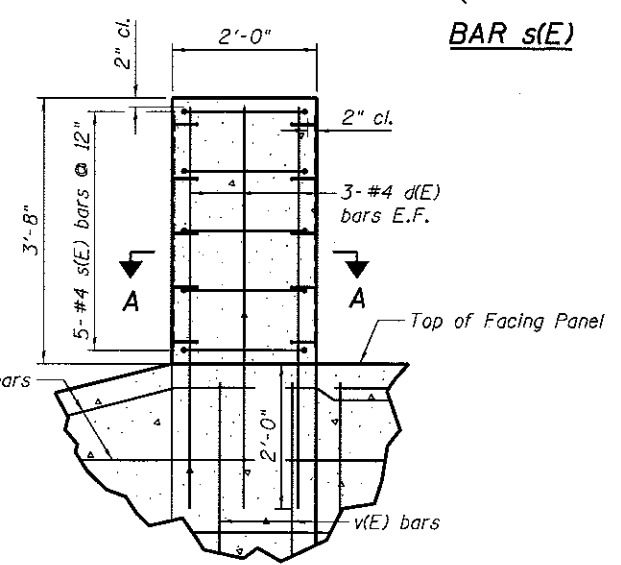


**ELEVATION**  
Concrete Facing Panel N4

**MIN. BAR LAPS**  
#5 Bars = 2'-11"

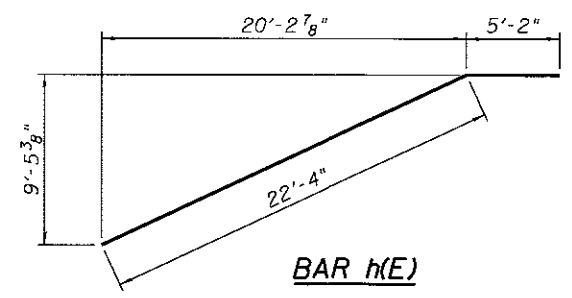


**SECTION A-A**



**CABLE ANCHORAGE  
CONCRETE POST DETAIL**

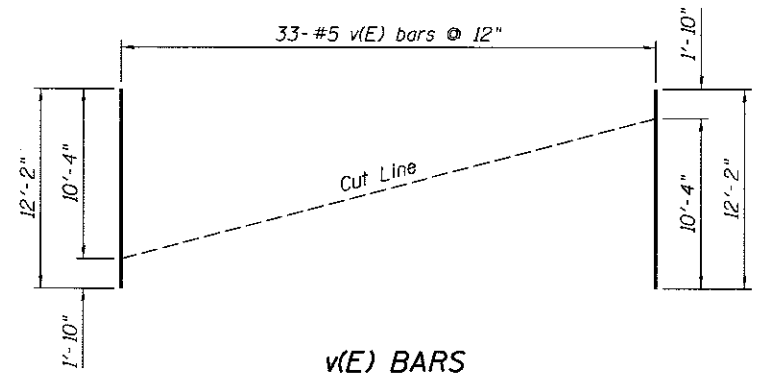
See Sheet 18 of 22 for Railing Connection Detail



**BAR h(E)**

h(E)	4'-1"	4'-8 1/8"
h2(E)	7'-11"	
h3(E)	11'-10"	
h4(E)	15'-8"	
h5(E)	19'-6"	
h6(E)	21'-1"	

**BARS h(E) THRU h6(E)**



**v(E) BARS**

Cut Bars to be Placed E.F.

FINAL  
DESIGNED: RGC 3/30/15  
DRAWN: EJM 3/30/15  
REVIEWED: KMS 10/17/2016

FILE NAME: \\sp1-sw-386.hanson.dom\hanson\_projects\Documents\09Jobs\091\01798\CAD\Struct\Laurel\Sheet\091\01798-RetainingWallPlans

USER NAME	DESIGNED	CHECKED	DRAWN	REVIEWED
pop82275	KMS	RGC	EJM	KMS

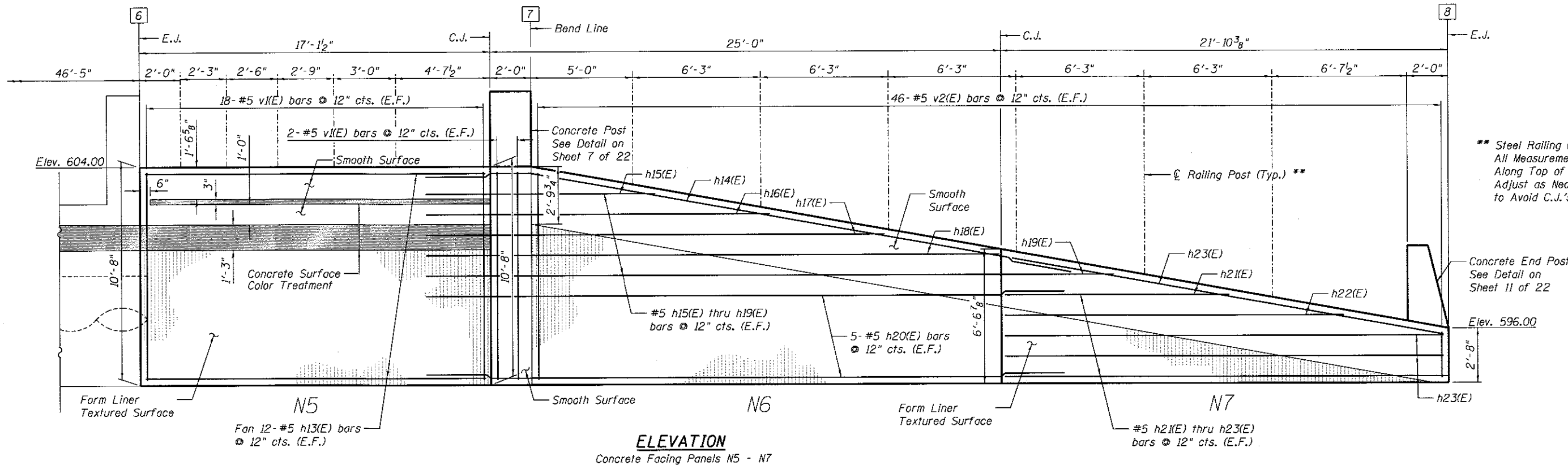
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING - NORTH WALL  
LAUREL STREET RETAINING WALLS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	326

SHEET NO. 7 OF 22 SHEETS

ILLINOIS FED. AID PROJECT



\*\* Steel Railing (Special)  
All Measurements are  
Along Top of Wall.  
Adjust as Necessary  
to Avoid C.J.'s & E.J.'s.

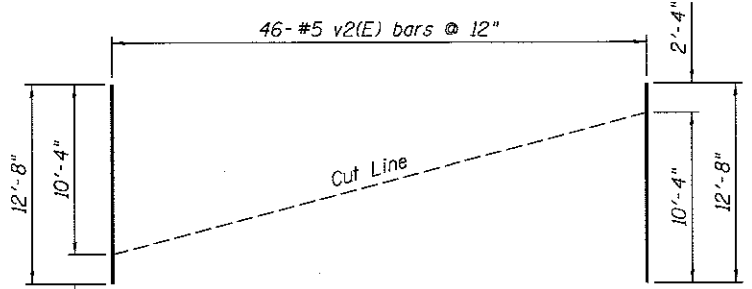
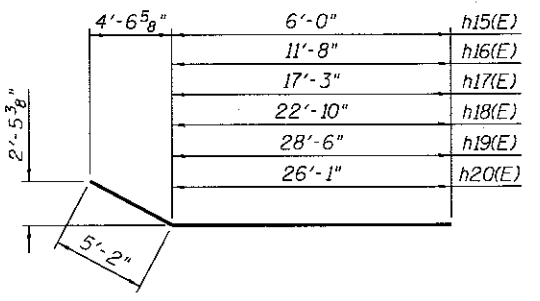
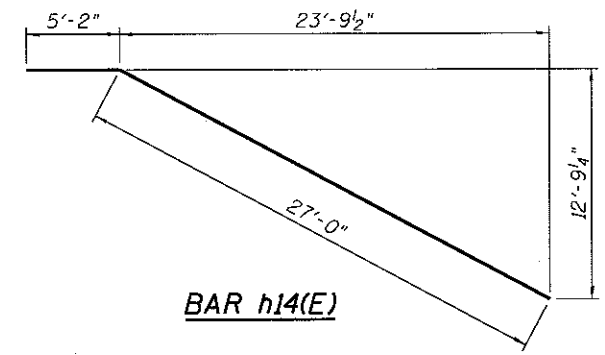
**ELEVATION**  
Concrete Facing Panels N5 - N7

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h13(E)	24	#5	16'-9"	—
h14(E)	2	#5	32'-2"	—
h15(E)	2	#5	11'-2"	—
h16(E)	2	#5	16'-10"	—
h17(E)	2	#5	22'-5"	—
h18(E)	2	#5	28'-0"	—
h19(E)	2	#5	33'-8"	—
h20(E)	10	#5	31'-3"	—
h21(E)	2	#5	10'-11"	—
h22(E)	2	#5	16'-6"	—
h23(E)	8	#5	21'-5"	—
v1(E)	40	#5	10'-4"	—
v2(E)	46	#5	12'-8"	—
Reinforcement Bars Epoxy Coated			Pound	2320
Concrete Structures			Cu. Yd.	21.9

Note: E.J. = Expansion Joint  
C.J. = Construction Joint  
E.F. = Each Face  
\* = Stagger Bars

**MIN. BAR LAPS**  
#5 Bars = 2'-11"



FINAL  
DESIGNED  
DRAWN  
REVIEWED

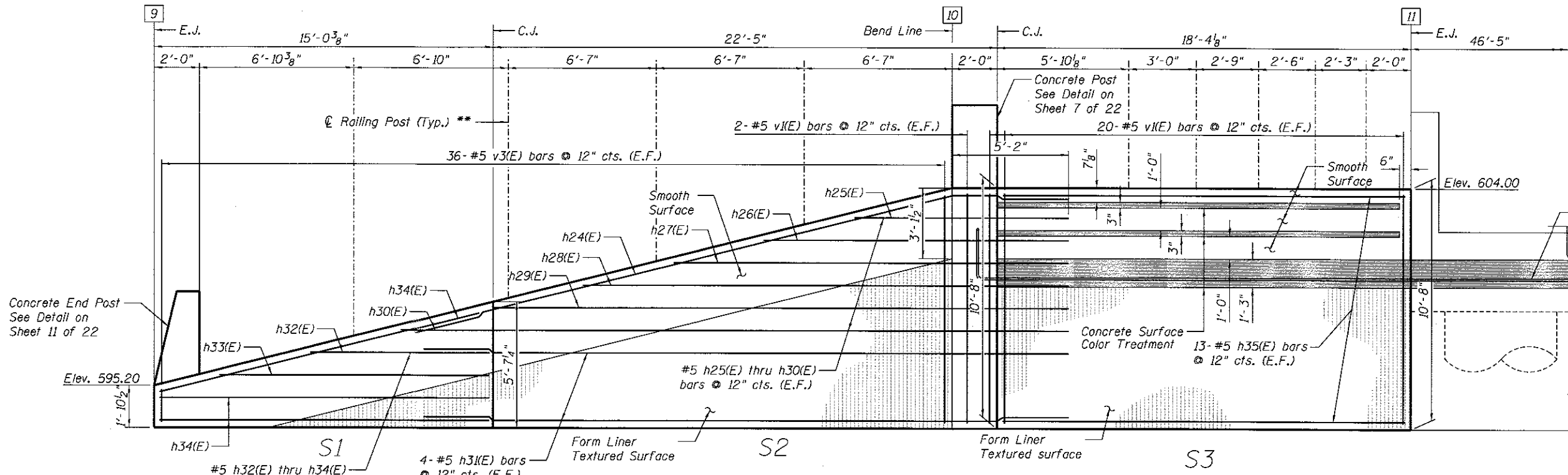
3/30/15  
3/30/15  
10/11/2016  
**HANSON**

FILE NAME =	USER NAME = pop02275	DESIGNED - KMS	REVISED -
		CHECKED - RGC	REVISED -
		DRAWN - EJM	REVISED -
		CHECKED - RGC	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING - NORTH WALL**  
**LAUREL STREET RETAINING WALLS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	327
CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	



\*\* Steel Railing (Special)  
All Measurements are  
Along Top of Wall.  
Adjust as Necessary  
to Avoid C.J.'s & E.J.'s.

Concrete End Post  
See Detail on  
Sheet 11 of 22

Elev. 595.20

Elev. 604.00

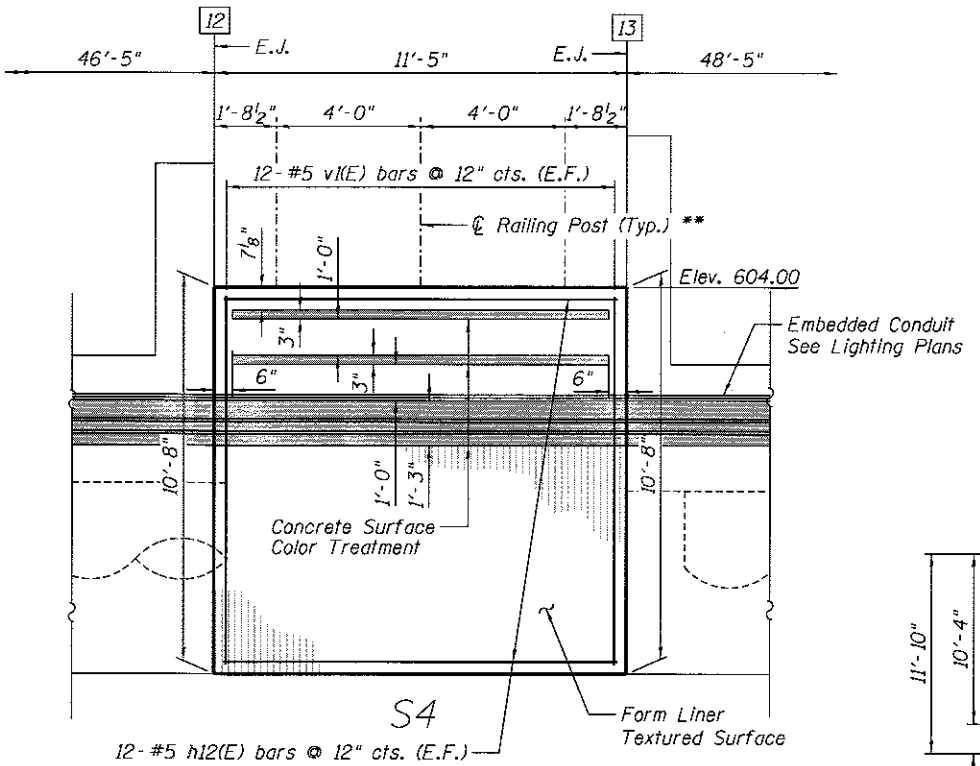
Embedded Conduit  
See Lighting Plans

**ELEVATION**  
Concrete Facing Panels S1 - S3

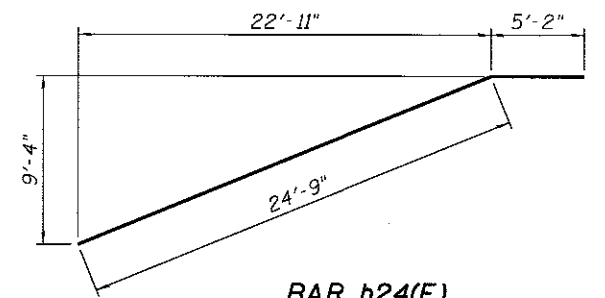
Note: E.J. = Expansion Joint  
C.J. = Construction Joint  
E.F. = Each Face  
\* = Stagger Bars  
[9] = Control Point

**BILL OF MATERIAL**

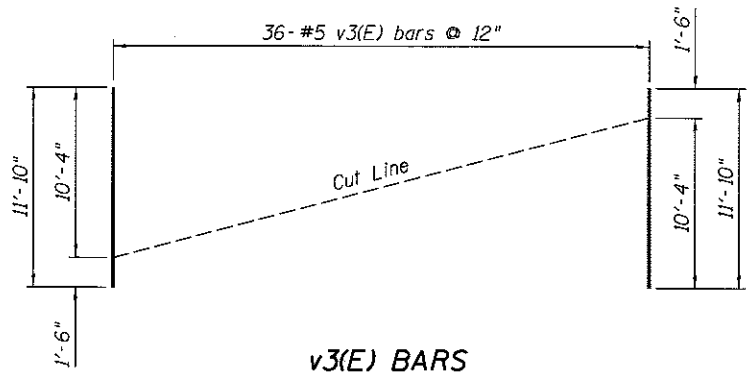
Bar	No.	Size	Length	Shape
h12(E)	24	#5	11'-1"	
h24(E)	2	#5	29'-11"	
h25(E)	2	#5	9'-6"	
h26(E)	2	#5	13'-6"	
h27(E)	2	#5	17'-6"	
h28(E)	2	#5	21'-7"	
h29(E)	2	#5	25'-7"	
h30(E)	2	#5	29'-7"	
h31(E)	8	#5	28'-8"	
h32(E)	2	#5	7'-11"	
h33(E)	2	#5	11'-11"	
h34(E)	6	#5	14'-7"	
h35(E)	26	#5	18'-0"	
v1(E)	68	#5	10'-4"	
v3(E)	36	#5	11'-10"	
Reinforcement Bars Epoxy Coated		Pound	2620	
Concrete Structures		Cu. Yd.	24.4	



**ELEVATION**  
Concrete Facing Panel S4  
MIN. BAR LAPS  
#5 Bars = 2'-11"



**BAR h24(E)**



**v3(E) BARS**  
Cut Bars to be Placed E.F.

Bar	Length	Shape
h25(E)	4'-4"	4'-9 3/8"
h26(E)	8'-4"	
h27(E)	12'-4"	
h28(E)	16'-5"	
h29(E)	20'-5"	
h30(E)	24'-5"	
h31(E)	23'-6"	

**BARS h25(E) THRU h31(E)**

FINAL  
DESIGNED: RGC 3/30/15  
DRAWN: EJM 3/30/15  
REVIEWED: KMS 10/11/2016

FILE NAME: p:\sp1-svr386.hanson.dom\hanson\_projects\Documents\09Jobs\09L01798\CAD\Struct\Laurel\Sheet\09L01798-RetainingWallPlans

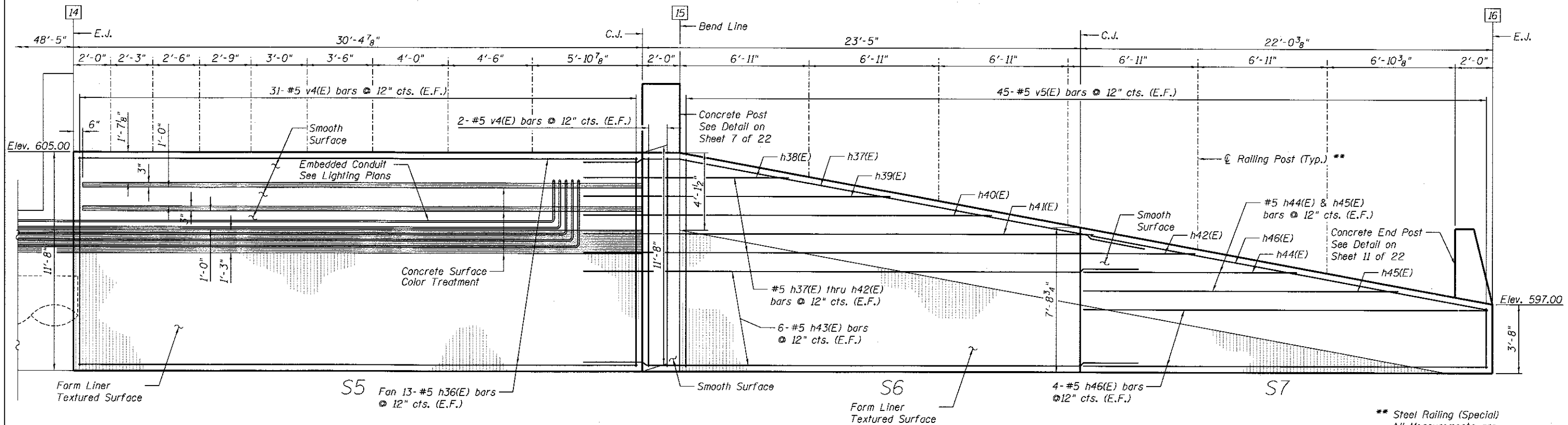
USER NAME = pop0275	DESIGNED - KMS	REVISIONS
	CHECKED - RGC	REVISIONS
	DRAWN - EJM	REVISIONS
	CHECKED - RGC	REVISIONS

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING - SOUTH WALL**  
**LAUREL STREET RETAINING WALLS**

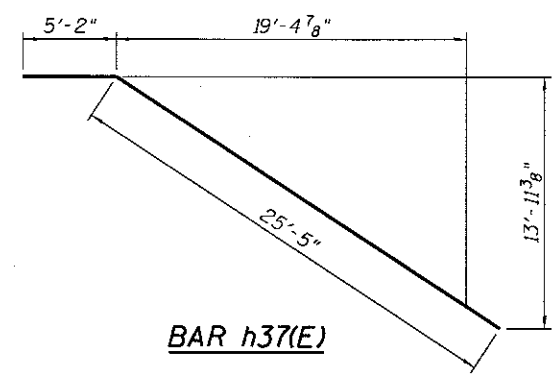
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	328
CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	



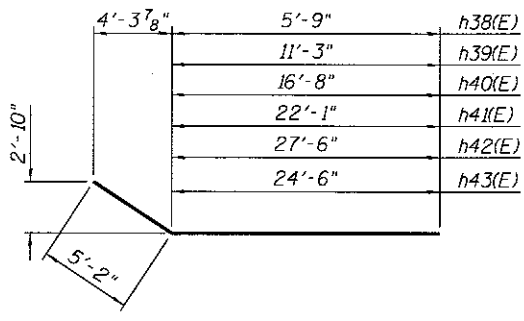


**ELEVATION**  
Concrete Facing Panels S5 - S7

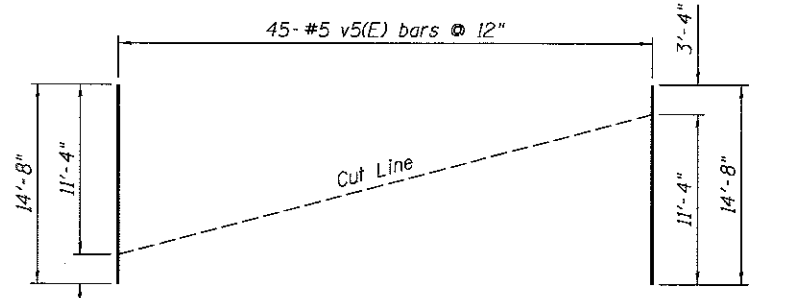
\*\* Steel Railing (Special)  
All Measurements are  
Along Top of Wall.  
Adjust as Necessary  
to Avoid C.J.'s & E.J.'s.



**BAR h37(E)**



**BARS h43(E) THRU h42(E)**



**v5(E) BARS**

Cut Bars to be Placed E.F.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h36(E)	26	#5	29'-4"	—
h37(E)	2	#5	30'-7"	—
h38(E)	2	#5	10'-11"	—
h39(E)	2	#5	16'-5"	—
h40(E)	2	#5	21'-10"	—
h41(E)	2	#5	27'-3"	—
h42(E)	2	#5	32'-8"	—
h43(E)	12	#5	29'-8"	—
h44(E)	2	#5	11'-4"	—
h45(E)	2	#5	16'-10"	—
h46(E)	10	#5	21'-7"	—
v4(E)	66	#5	11'-4"	—
v5(E)	45	#5	14'-8"	—
Reinforcement Bars Epoxy Coated		Pound	3210	
Concrete Structures		Cu. Yd.	30.9	

Note: E.J. = Expansion Joint  
C.J. = Construction Joint  
E.F. = Each Face  
\* = Stagger Bars

1 = Control Point

**MIN. BAR LAPS**  
#5 Bars = 2'-11"

FINAL  
DESIGNED: RGC 3/10/15  
DRAWN: EJM 3/30/15  
REVIEWED: KMS 10/11/2016

PROJECT: p:\proj\avr\306.hanson.com\Hanson Projects\Documents\09Jobs\09L01798\CAD\Struct\Laurel\Sheets\09L01798-RetainingWallPlans

FILE NAME: HANSON	USER NAME: pop0275	DESIGNED: KMS	REVISED: -
		CHECKED: RGC	REVISED: -
		DRAWN: EJM	REVISED: -
		CHECKED: RGC	REVISED: -

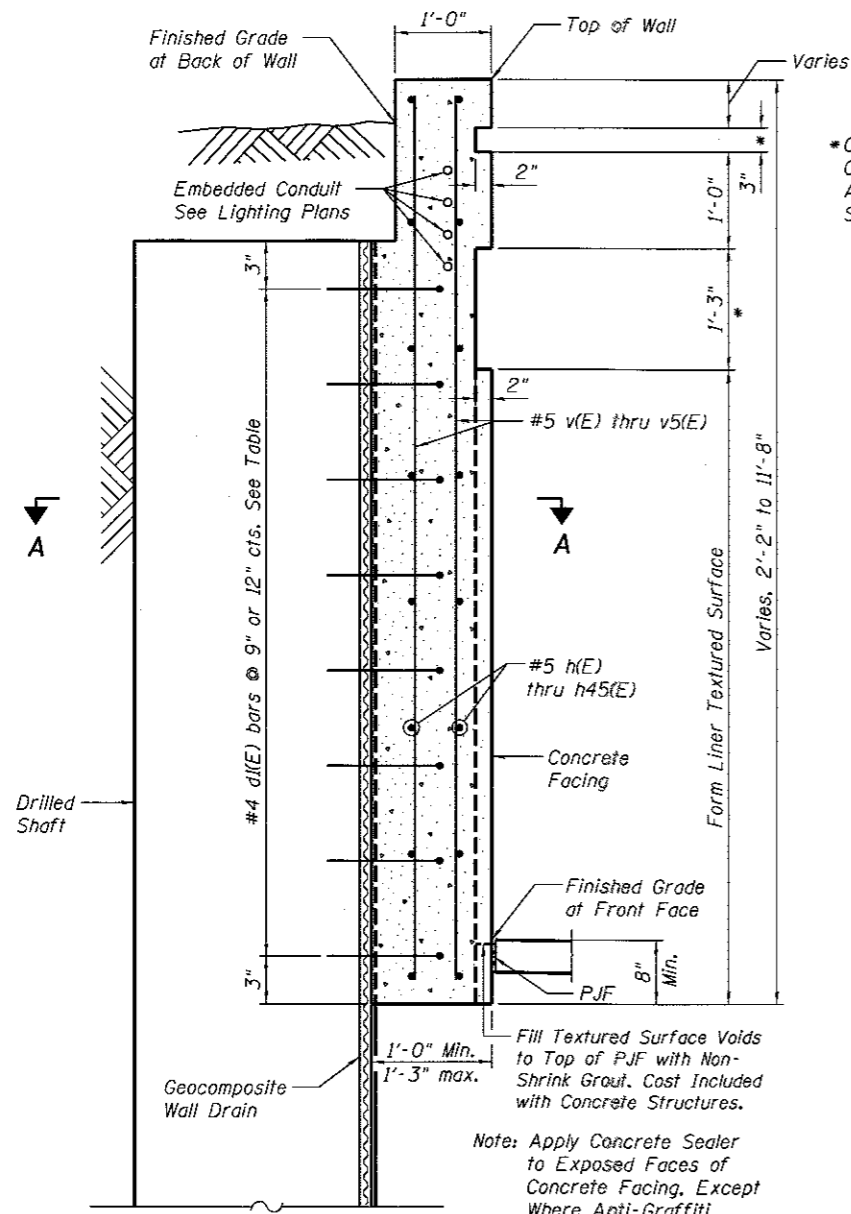
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING - SOUTH WALL**  
**LAUREL STREET RETAINING WALLS**

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	329
			CONTRACT NO. 93704	

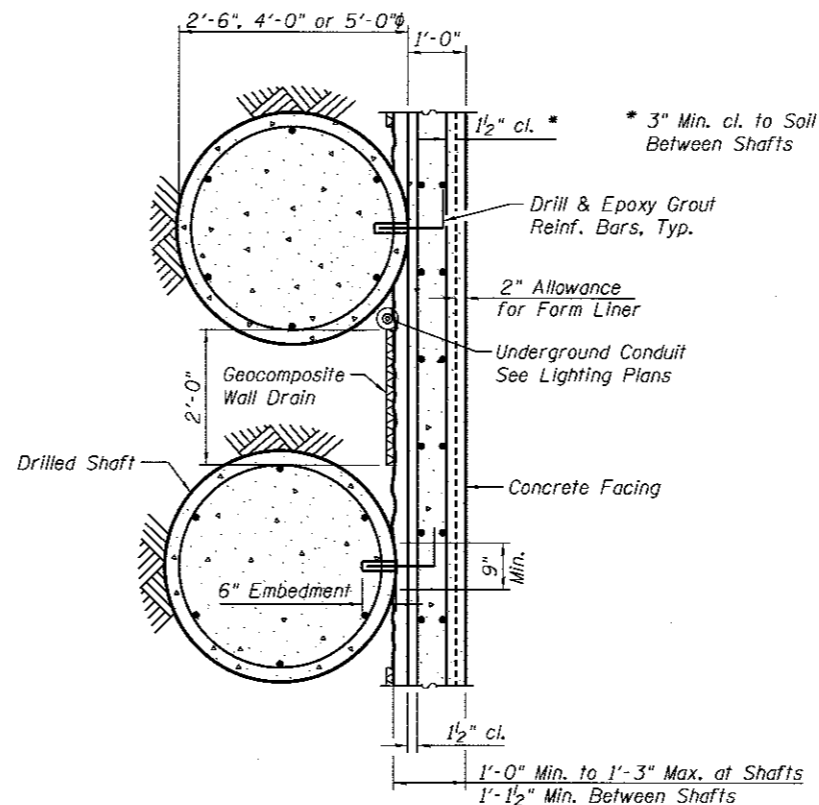
SHEET NO. 10 OF 22 SHEETS

ILLINOIS FED. AID PROJECT



**VERTICAL SECTION THRU CONCRETE FACING**

\*Concrete Surface Color Treatment and Anti-Graffiti Protection System



**SECTION A-A**

**NORTH WALL  
d(E) BARS REQUIRED**

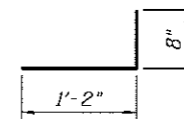
Shaft No.	Number Required on Each Shaft
1	3
2	4
3	5
4	7
5	8
6	9
7-13	10
14-15	13 at 9" cts.
16-20	10
21	9
22	8
23	7
24	6
25-26	5
27	4
28	3

Space at 12" Max. cts.

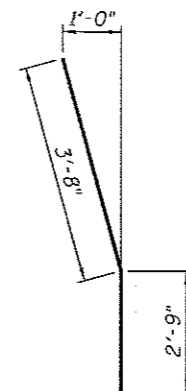
**SOUTH WALL  
d(E) BARS REQUIRED**

Shaft No.	Number Required on Each Shaft
1	3
2	4
3	5
4	6
5	7
6	9
7-11	10
12-13	13 at 9" cts.
14-20	11
21	10
22	9
23	8
24-25	7
26	6
27	5
28	4

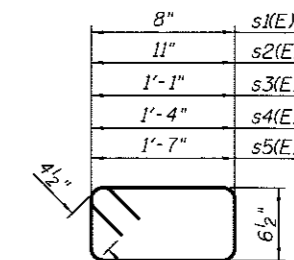
Space at 12" Max. cts.



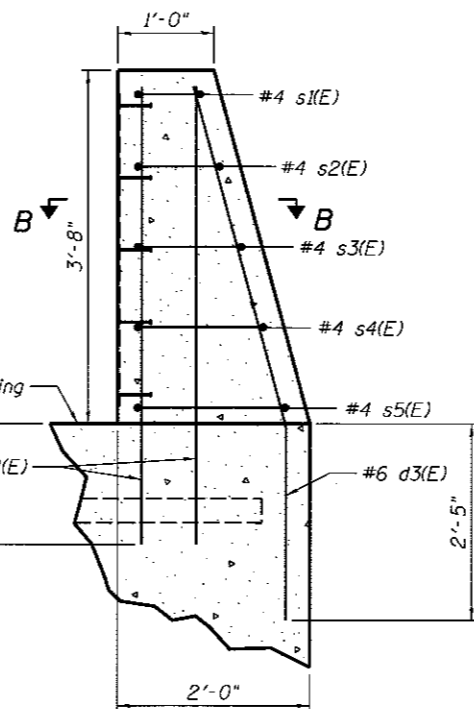
**BAR d(E)**



**d3(E) BAR**

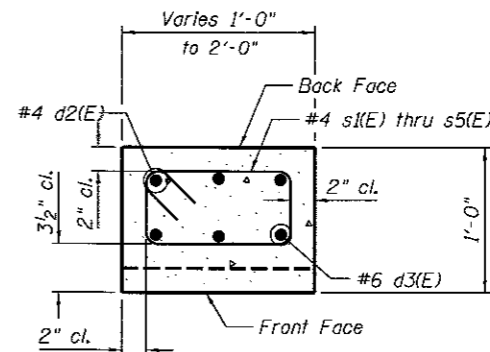


**s(E) THRU s5(E) BARS**



**CABLE ANCHORAGE  
CONCRETE END POST DETAIL**

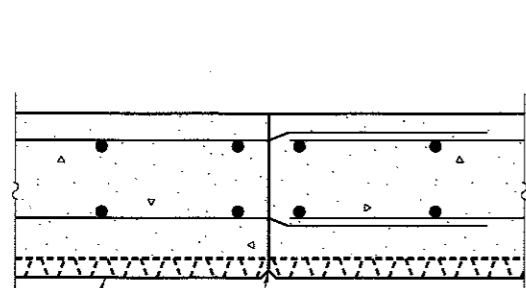
Typ. of 4 Posts on Concrete Facing  
See Sheet 26 of 34 for Railing Connection Details



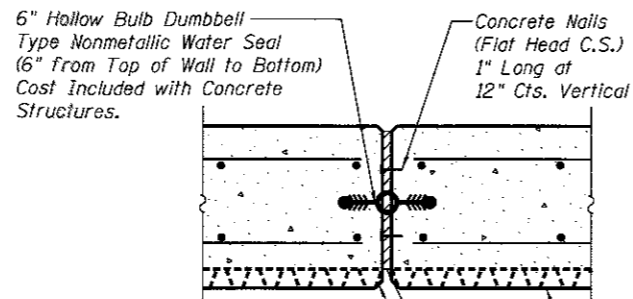
**SECTION B-B**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
d1(E)	472	#4	1'-10"	┌	
d2(E)	16	#4	5'-3"	┌	
d3(E)	8	#6	6'-5"	┌	
s1(E)	4	#4	3'-2"	┌	
s2(E)	4	#4	3'-8"	┌	
s3(E)	4	#4	4'-0"	┌	
s4(E)	4	#4	4'-6"	┌	
s5(E)	4	#4	5'-0"	┌	
Reinforcement Bars Epoxy Coated				Pound	770
Concrete Structures				Cu. Yd.	0.8



**TYPICAL WALL  
CONSTRUCTION JOINT DETAIL**



**TYPICAL WALL  
EXPANSION JOINT DETAIL**

Face of Exposed Concrete Facing 3/4" Chamfer\*  
\*Do Not Chamfer Areas with Concrete Surface Color Treatment or Form Liner Textured Surface

FINAL  
DESIGNED RGC 3/30/15  
DRAWN EJM 3/30/15  
REVIEWED KMS 10/17/2015

FILE NAME: p:\top:\svr\306.hanson\dom\Hanson Projects\Documents\09Jobs\09L01798\CAD\Struct\Laurel\Sheet\09L01798-RetainingWallPlans

USER NAME	DESIGNED	CHECKED	DRAWN	REVIEWED
pop08275	KMS	RGC	EJM	KMS

DESIGNED	CHECKED	DRAWN	REVIEWED
KMS	RGC	EJM	KMS

DESIGNED	CHECKED	DRAWN	REVIEWED
KMS	RGC	EJM	KMS

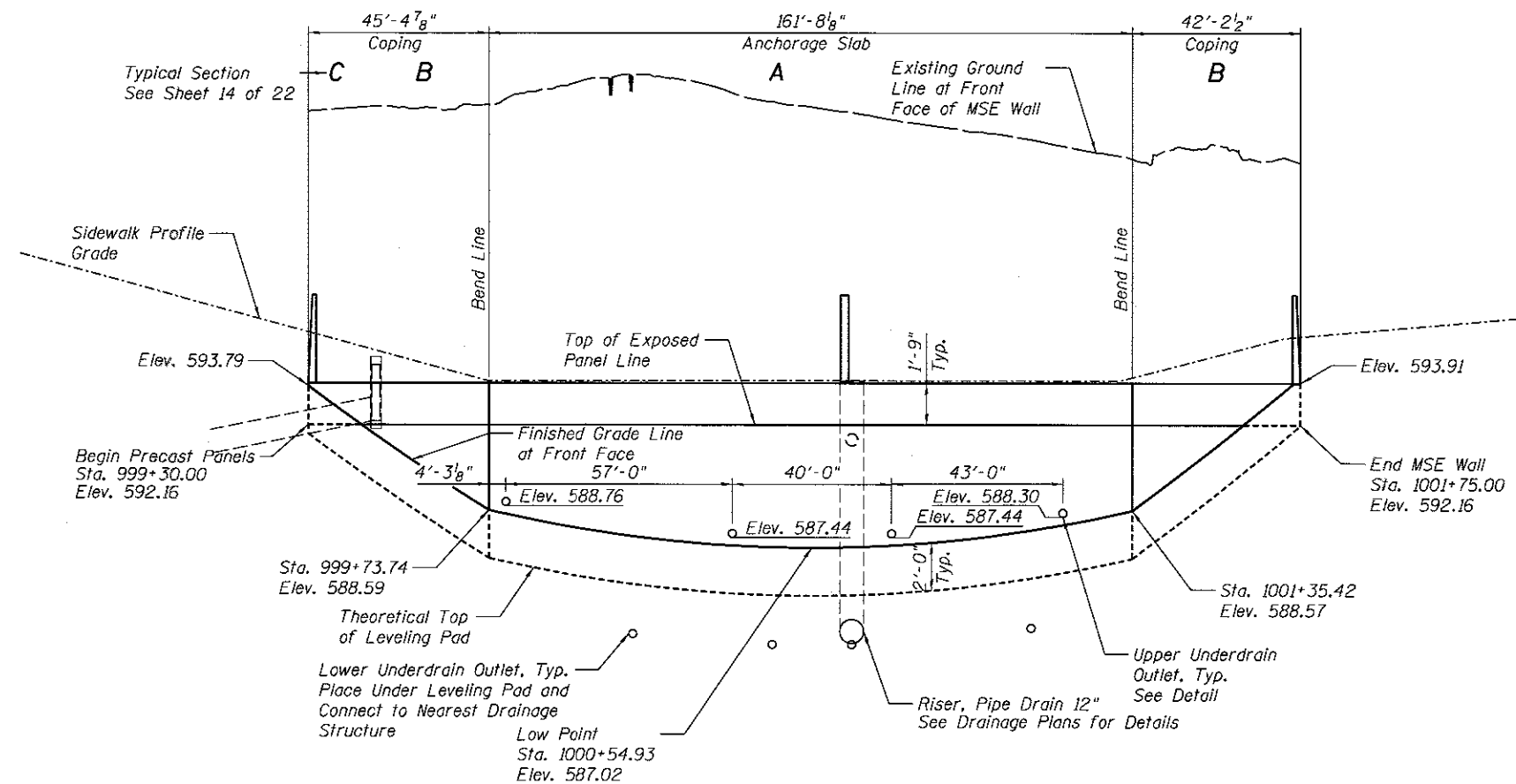
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	330
				CONTRACT NO. 93704

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

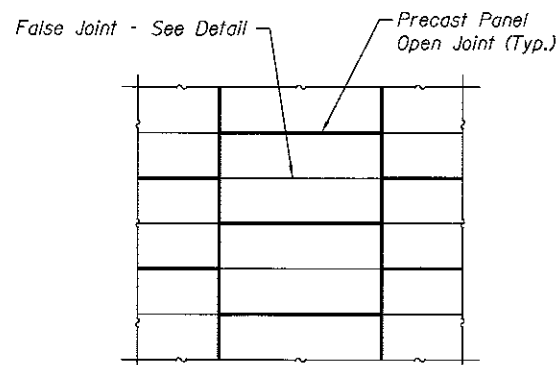
**CONCRETE FACING DETAILS  
LAUREL STREET RETAINING WALLS**

SHEET NO. 11 OF 22 SHEETS

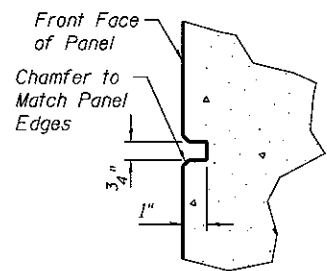
ILLINOIS FED. AID PROJECT



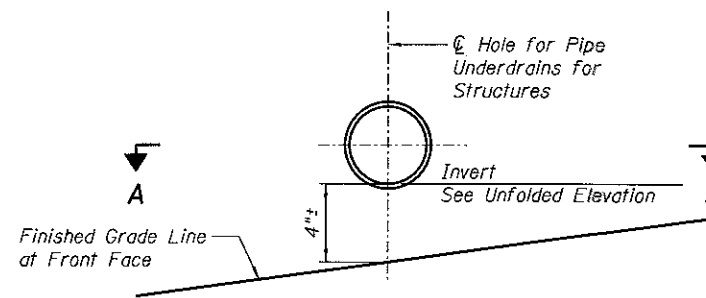
**NORTH WALL UNFOLDED ELEVATION**



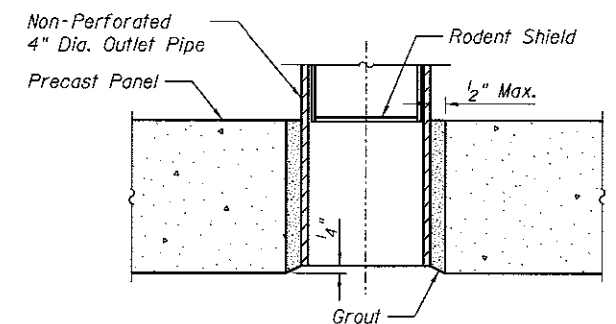
**MSE WALL PRECAST PANEL PATTERN**



**FALSE JOINT RUSTICATION**



**UPPER UNDERDRAIN OUTLET DETAIL**



**SECTION A-A**

**FINAL**  
 DESIGNED: RGC 3/30/15  
 DRAWN: EJM 3/30/15  
 REVIEWED: RMS 10/17/2015

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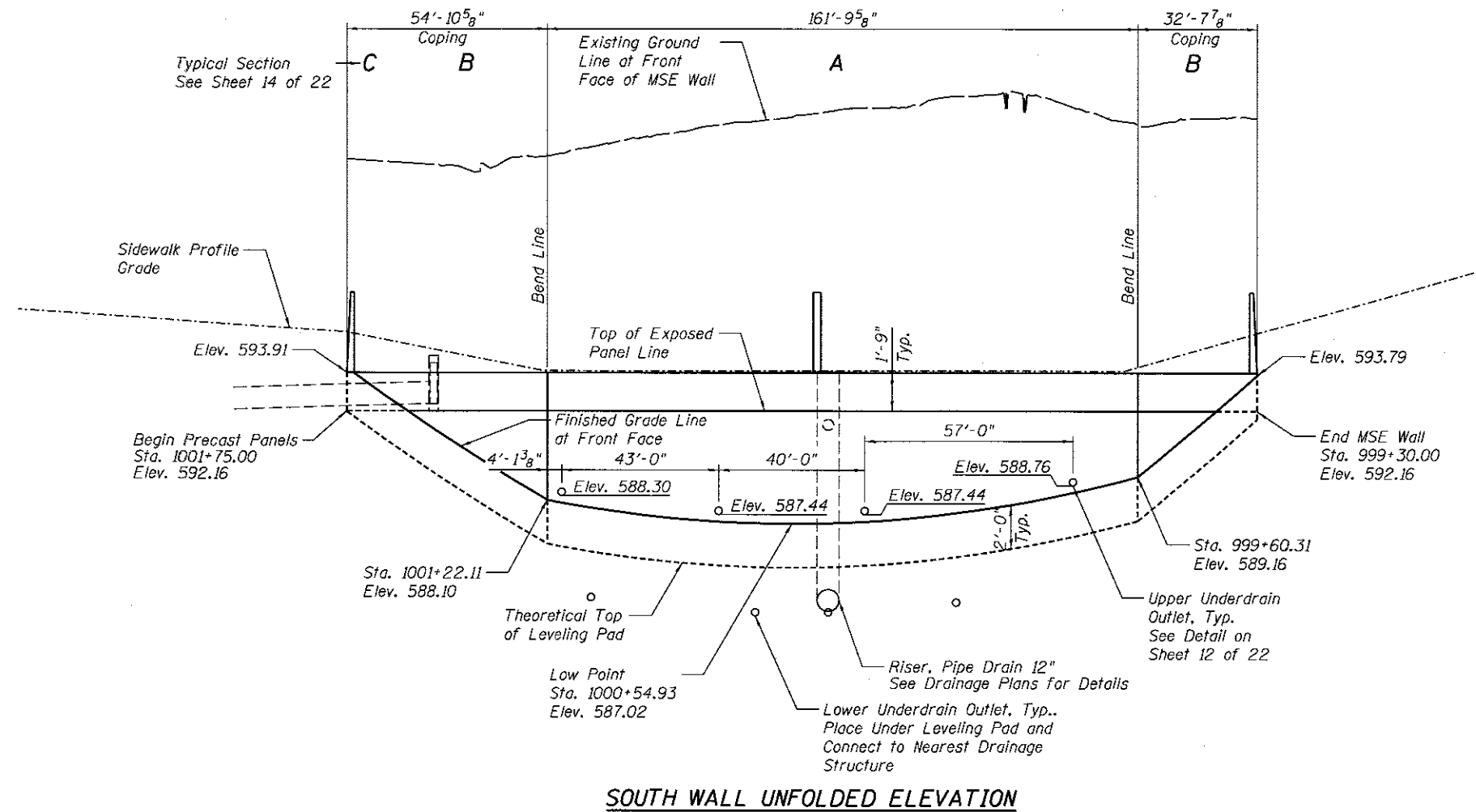
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MSE UNFOLDED ELEVATION - NORTH WALL  
LAUREL STREET RETAINING WALLS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	331
CONTRACT NO. 93704			ILLINOIS FED. AID PROJECT	

SHEET NO. 12 OF 22 SHEETS



**SOUTH WALL UNFOLDED ELEVATION**

FINAL  
 DESIGNED RGC 3/30/15  
 DRAWN EJM 3/30/15  
 REVIEWED KMS 10/11/2016

\\sp1-svr306.hanson.com\hanson\_projects\documents\09\Jobs\09L01798\CAD\Struct\Laurel\Sheet\09L01798-RetainingWallPlans

FILE NAME =	USER NAME = pop00275	DESIGNED - KMS	REVISED -
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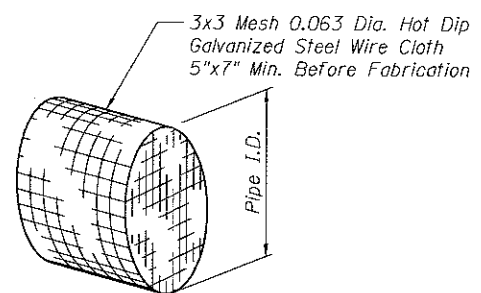
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MSE UNFOLDED ELEVATION - SOUTH WALL  
 LAUREL STREET RETAINING WALLS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	332
			CONTRACT NO. 93704	

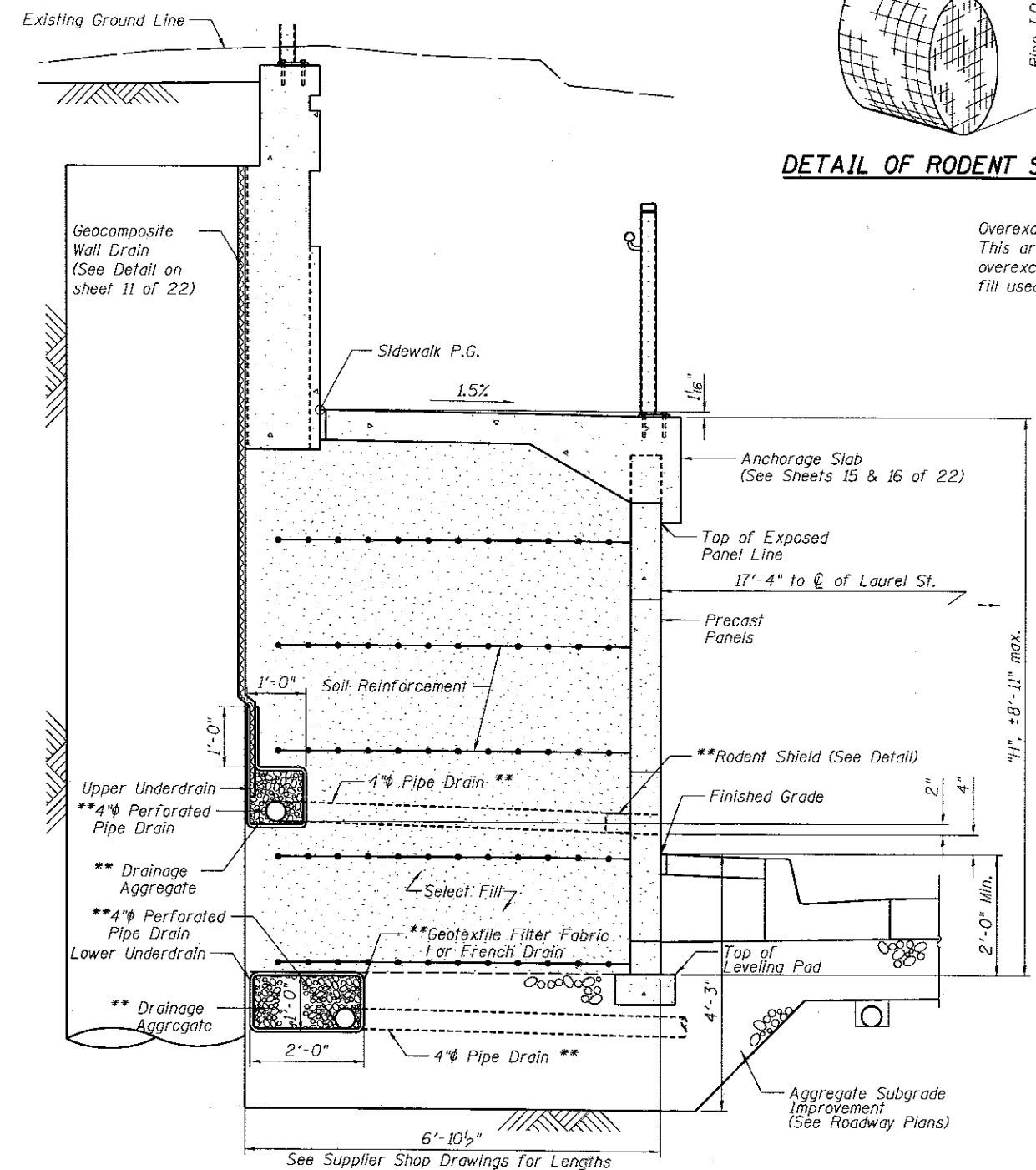
SHEET NO. 13 OF 22 SHEETS

ILLINOIS FED. AID PROJECT



**DETAIL OF RODENT SHIELD**

Overexcavation beyond limits of soil reinforcement. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.



**TYPICAL WALL SECTION A**

N. Wall Sta. 999+73.74 to 1001+35.42  
S. Wall Sta. 999+60.31 to 1001+22.11

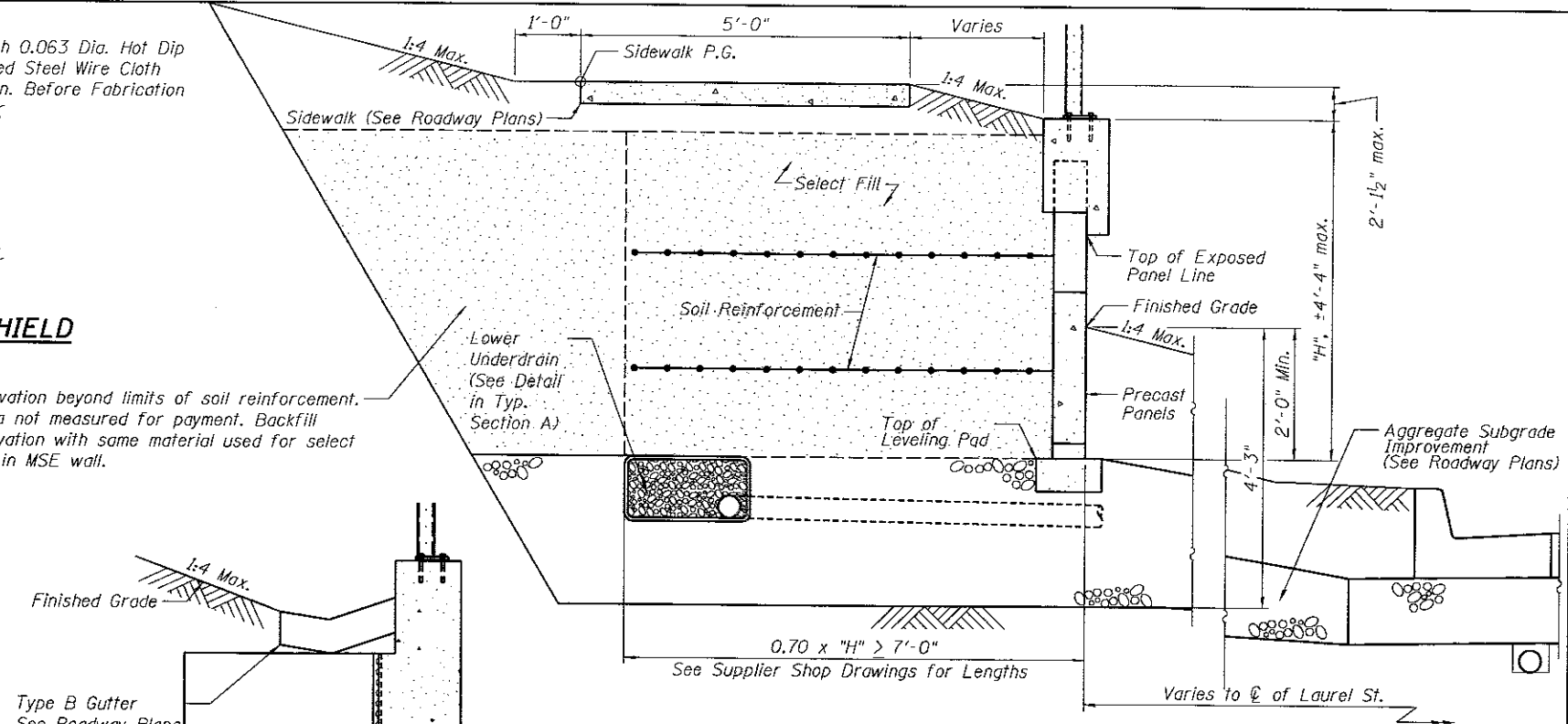
**MSE Wall Design Loads**

1. Native soil behind select fill  
Unit Weight = 125 pcf,  $\phi = 30^\circ$
2. Vertical live load on sidewalk = 75 psf
3. Vertical live load behind upper wall  
Cooper E-80 at railroad tracks  
240 psf traffic surcharge elsewhere

External stability of the MSE wall in front of the permanent tangent pile retaining wall has been evaluated for the greater of the active pressure including surcharge behind the tangent pile wall applied only though the gaps between the drilled shafts or 35 psf/ft applied to the entire reinforced soil mass.

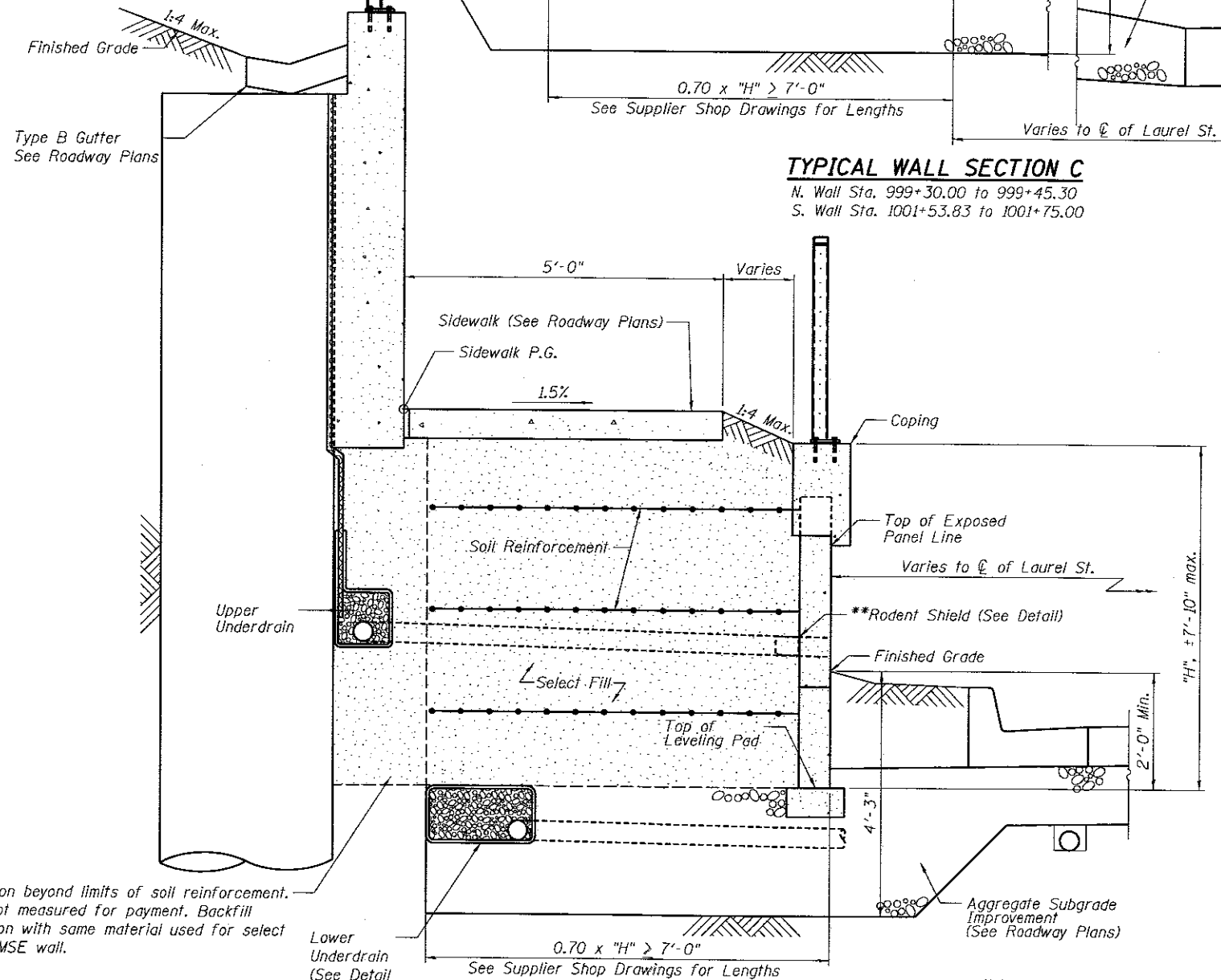
\*\* Included in the cost of Pipe Underdrains for Structures.

Overexcavation beyond limits of soil reinforcement. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.



**TYPICAL WALL SECTION C**

N. Wall Sta. 999+30.00 to 999+45.30  
S. Wall Sta. 1001+53.83 to 1001+75.00



**TYPICAL WALL SECTION B**

N. Wall Sta. 999+45.30 to 999+73.74 and 1001+35.42 to 1001+73.54  
S. Wall Sta. 999+25.68 to 999+60.31 and 1001+22.11 to 1001+53.83

Notes:

- 1) Apply Concrete Sealer to Exposed Faces of Precast Panels, Coping, and Anchorage Slab.

DESIGNED	RGC	3/30/15
DRAWN	EJM	3/30/15
REVIEWED	KMS	10/11/2016



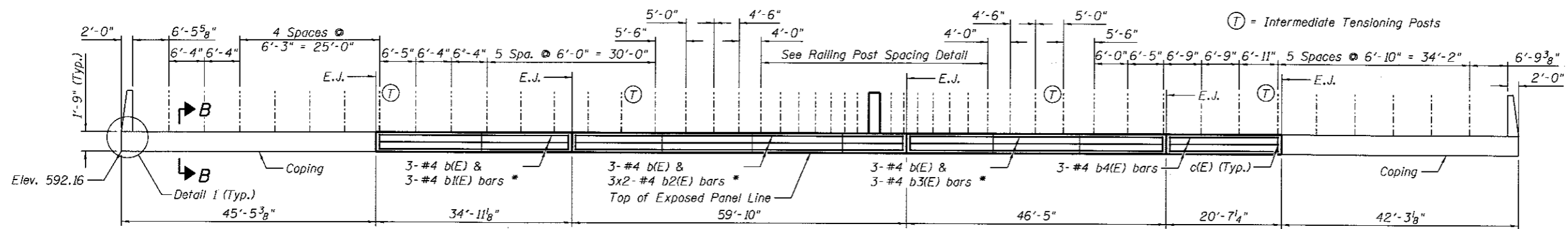
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

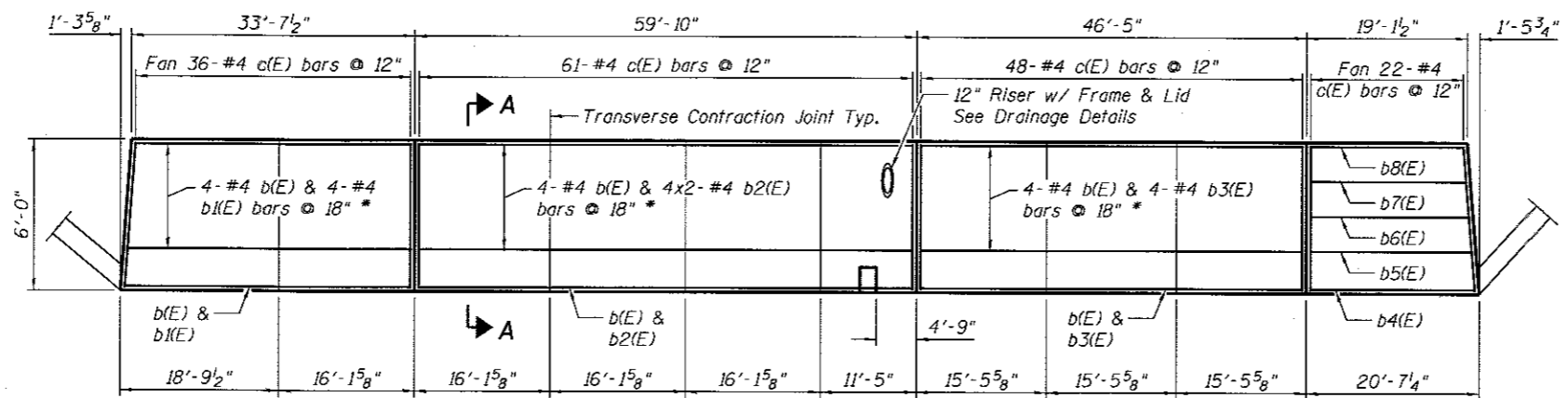
**MSE DETAILS  
LAUREL STREET RETAINING WALLS**

SHEET NO. 14 OF 22 SHEETS

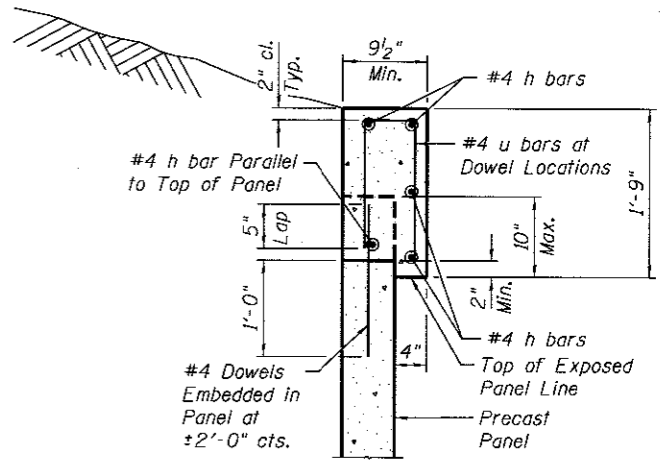
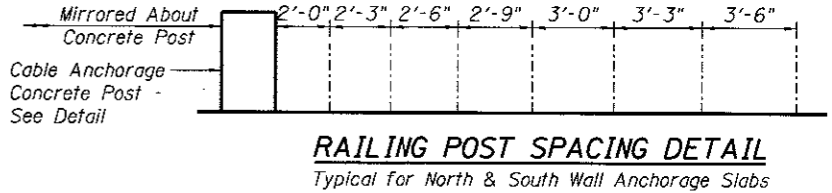
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	333
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



**ELEVATION - NORTH WALL ANCHORAGE SLAB**

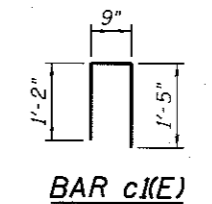
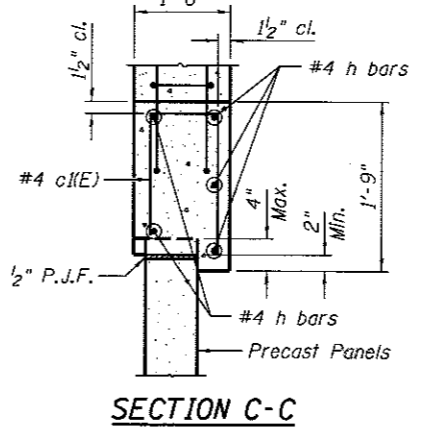
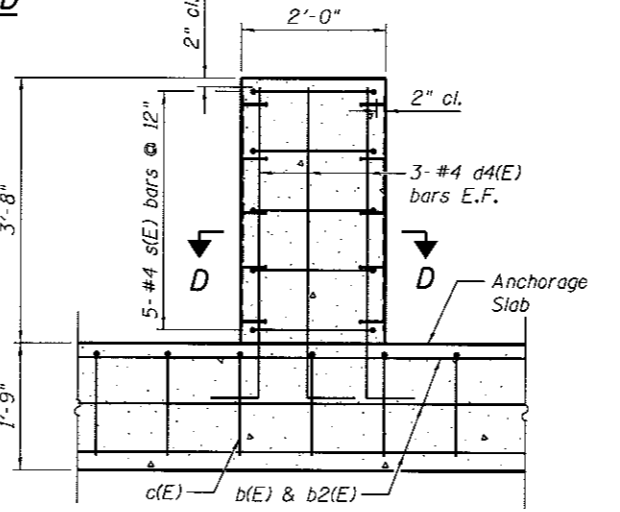
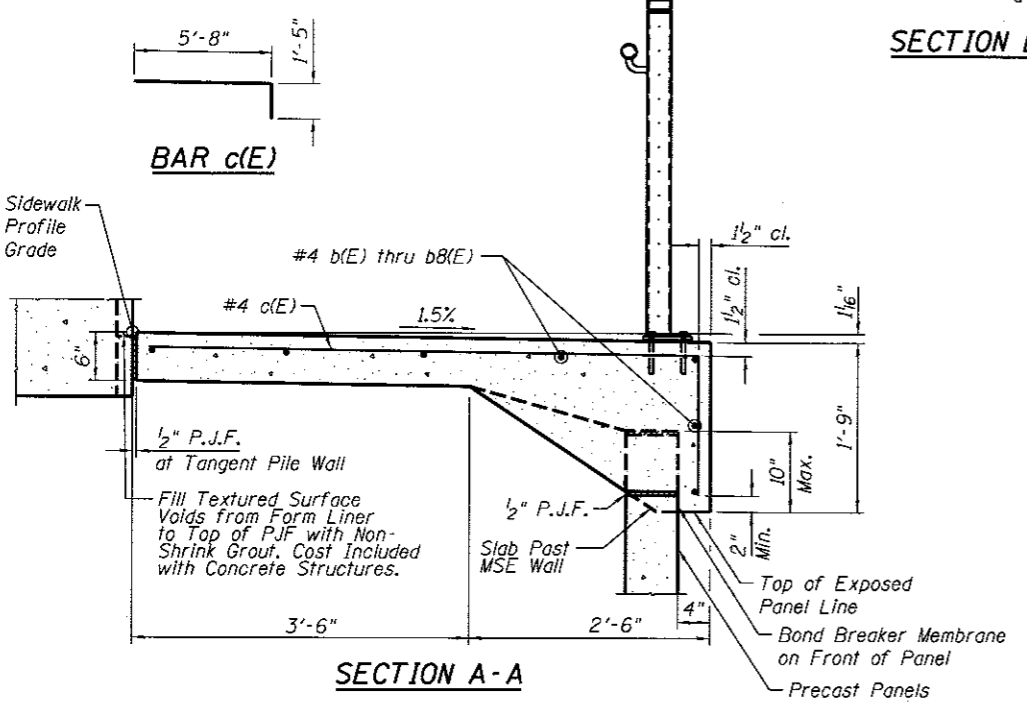
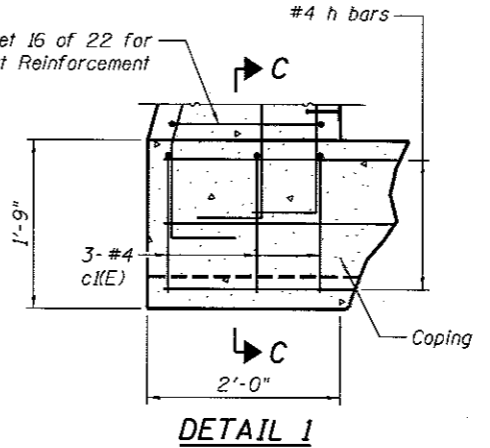
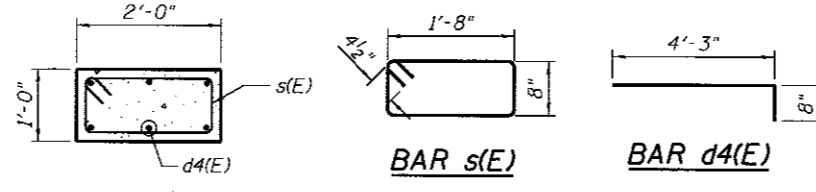


**PLAN - NORTH WALL ANCHORAGE SLAB**



**SECTION B-B**

Concrete and Reinforcement in Coping is Included for Payment in the item "Mechanically Stabilized Earth Retaining Wall".



**MIN. BAR LAPS**  
 #4 Bars = 1'-10"

Note: E.J. = Expansion Joint  
 E.F. = Each Face  
 \* = Stagger Laps  
 [14] = Control Point

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
b(E)	21	#4	30'-0"	—
b1(E)	7	#4	6'-5"	—
b2(E)	14	#4	16'-7"	—
b3(E)	7	#4	18'-0"	—
b4(E)	3	#4	20'-2"	—
b5(E)	1	#4	19'-10"	—
b6(E)	1	#4	19'-6"	—
b7(E)	1	#4	19'-2"	—
b8(E)	1	#4	18'-9"	—
c(E)	167	#4	7'-1"	—
c1(E)	12	#4	3'-4"	—
d4(E)	12	#4	4'-11"	—
s(E)	10	#4	5'-5"	—
Reinforcement Bars Epoxy Coated		Pound	1670	
Concrete Structures		Cu. Yd.	29.4	

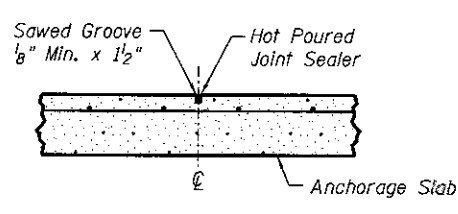
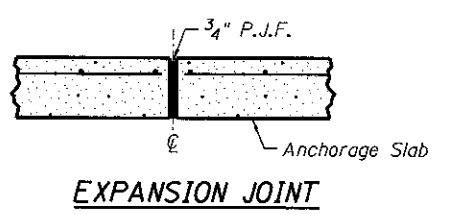
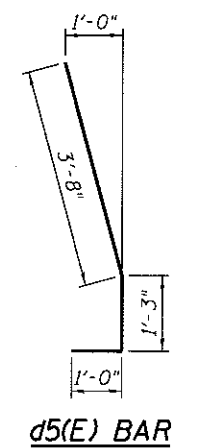
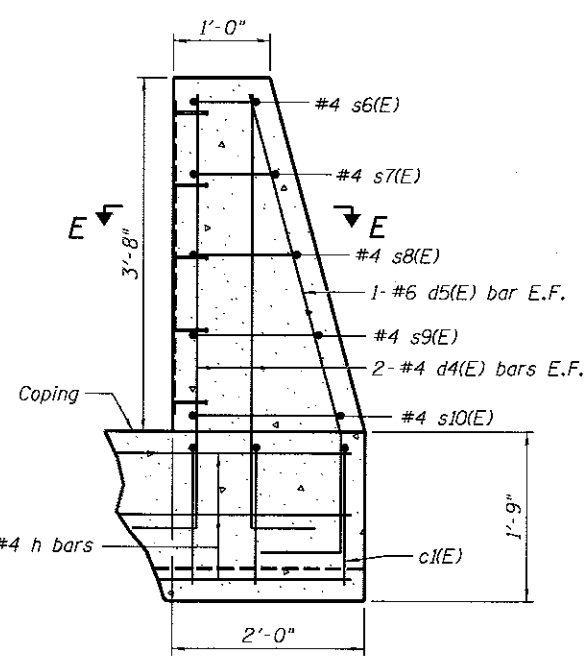
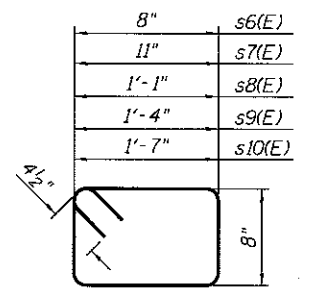
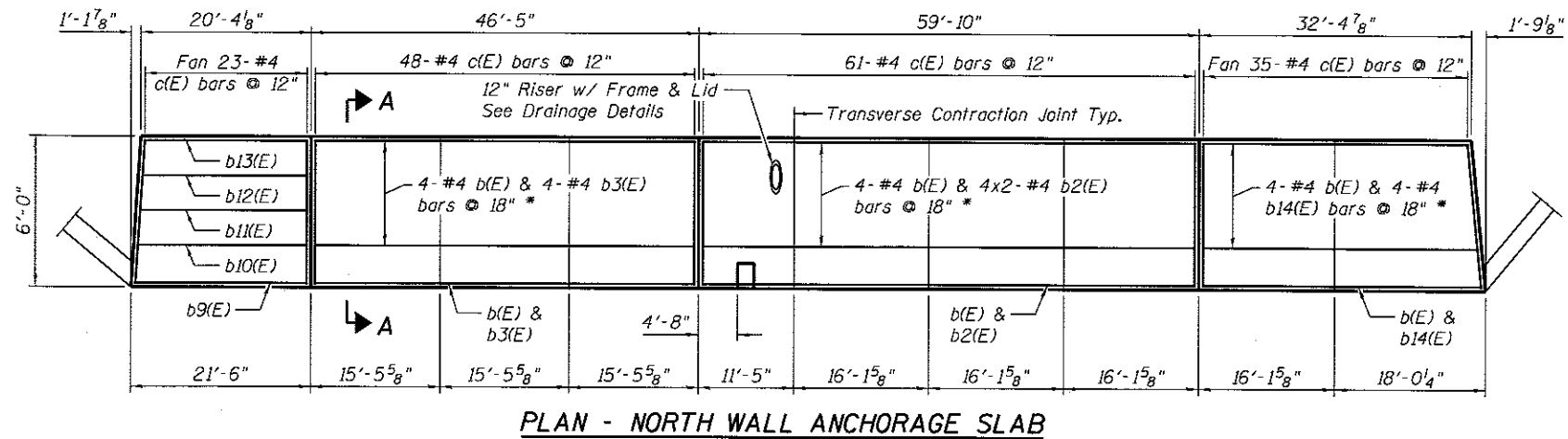
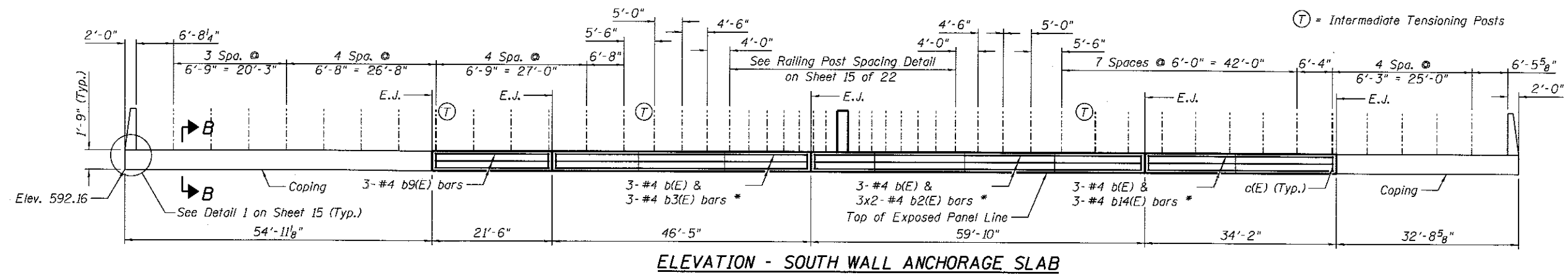
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 DRAWN EJM 3/20/15  
 REVIEWED KMS 10/11/2016

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PLOT DATE = 2/24/2017	DRAWN - EJM	REVISIONS
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB - NORTH WALL  
 LAUREL STREET RETAINING WALLS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	334
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



**MIN. BAR LAPS**

#4 Bars = 1'-10"  
#5 Bars = 2'-11"

Note: E.J. = Expansion Joint  
E.F. = Each Face  
\* = Stagger Laps  
[18] = Control Point

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
b(E)	21	#4	30'-0"	—
b2(E)	14	#4	16'-7"	—
b3(E)	7	#4	18'-0"	—
b9(E)	3	#4	21'-1"	—
b10(E)	1	#4	20'-10"	—
b11(E)	1	#4	20'-7"	—
b12(E)	1	#4	20'-3"	—
b13(E)	1	#4	20'-0"	—
b14(E)	7	#4	5'-8"	—
c(E)	167	#4	7'-1"	L
d4(E)	16	#4	4'-11"	L
d5(E)	8	#6	5'-11"	L
s6(E)	4	#4	3'-5"	□
s7(E)	4	#4	3'-11"	□
s8(E)	4	#4	4'-3"	□
s9(E)	4	#4	4'-9"	□
s10(E)	4	#4	5'-3"	□
Reinforcement Bars Epoxy Coated		Pound	1750	
Concrete Structures		Cu. Yd.	29.4	

FINAL  
DESIGNED RGC 3/30/15  
DRAWN EJM 3/30/15  
REVIEWED KMS 10/11/2015

PROJECT: pop1-svr385-hanson\_dom\hanson\_projects\Documents\09Jobs\09L01798\CAD\Struct\Laurel\Sheet\09L01798-RetainingWallPlans

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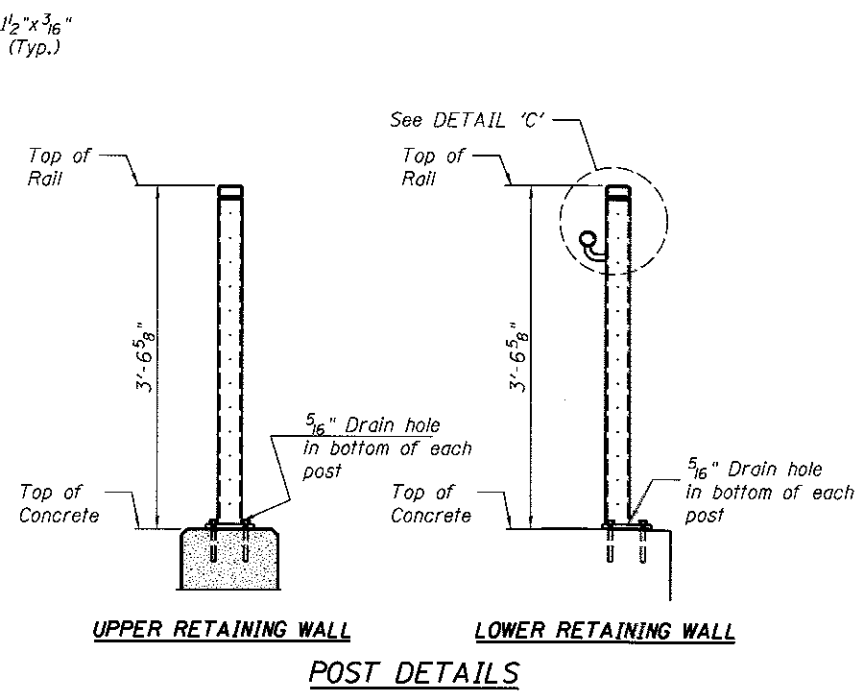
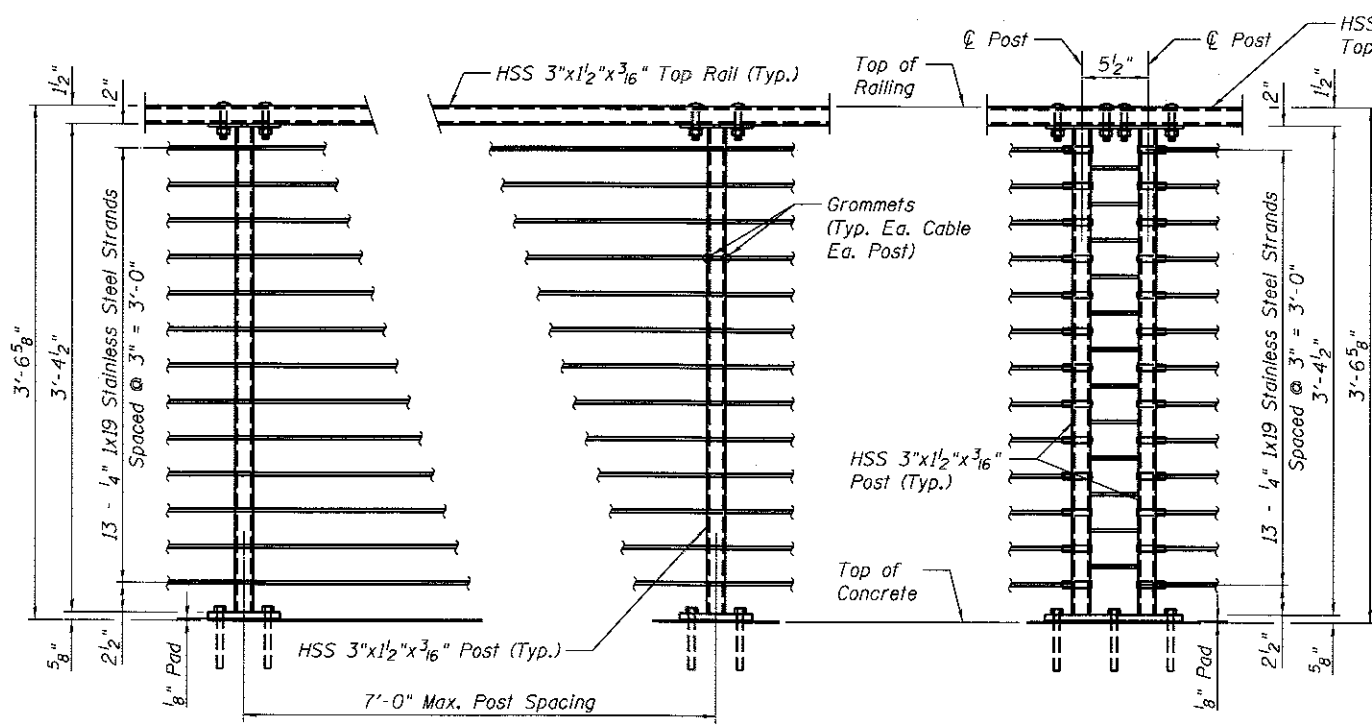
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

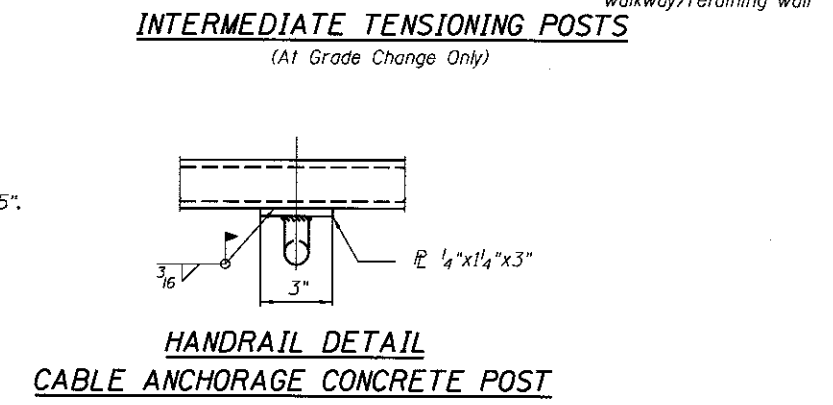
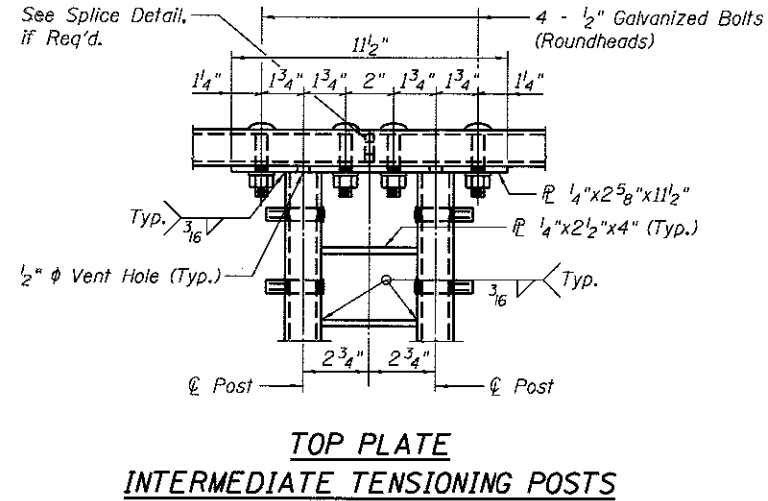
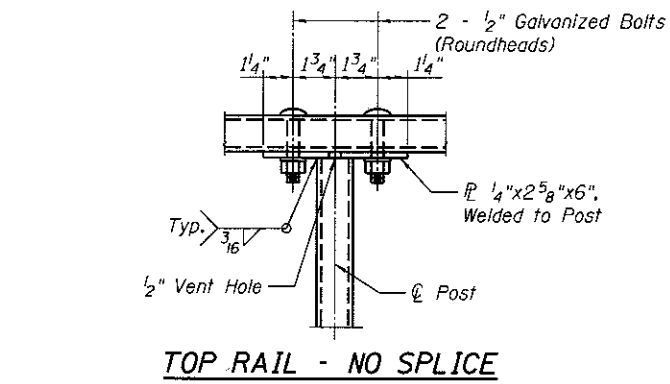
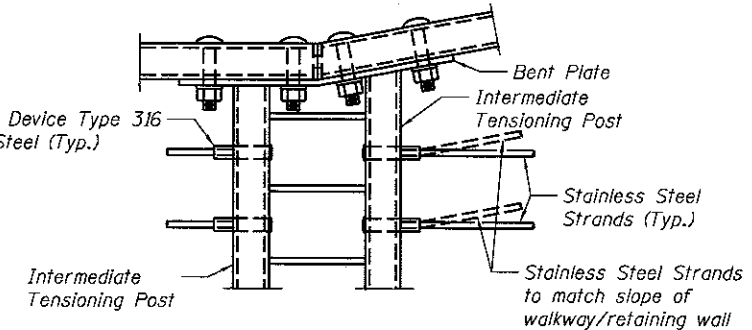
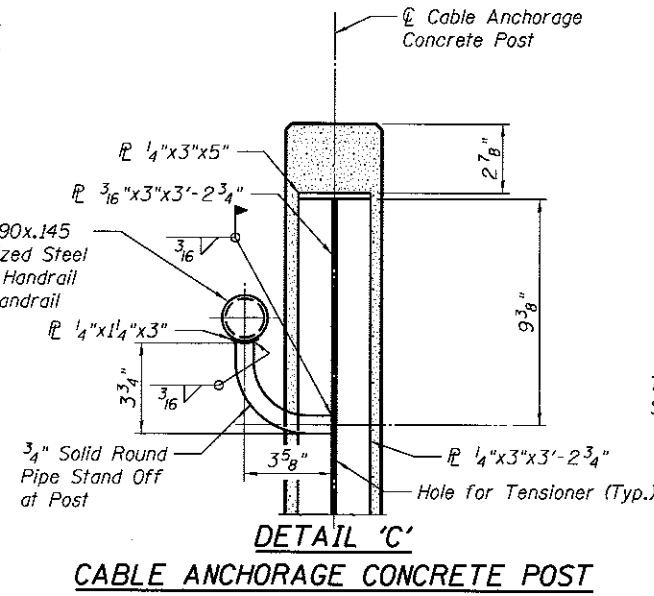
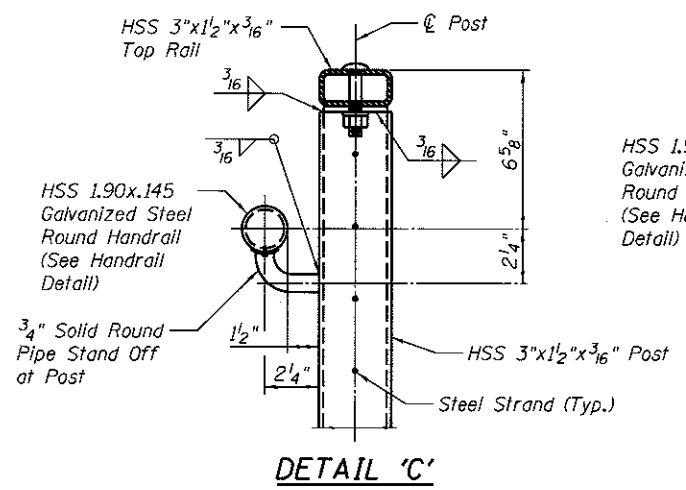
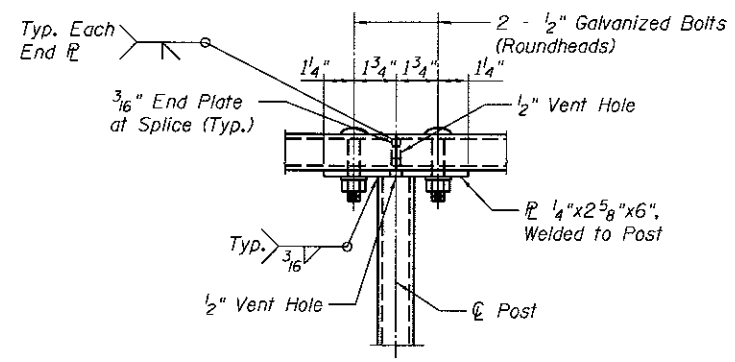
**ANCHORAGE SLAB - SOUTH WALL  
LAUREL STREET RETAINING WALLS**

SHEET NO. 16 OF 22 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	335
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



**Notes:**  
 Railing posts shall be vertical.  
 Anchor rods shall be ASTM F1554, Gr. 55, galvanized steel all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor rods may be used in lieu of ASTM F1554. The anchor rods shall be hot-dipped galvanized according to AASHTO M232, Class C.  
 Tube segments shall have all corners ground to remove burrs or sharp projections.  
 All bolts, eyebolts, nuts and washers must satisfy the requirements of ASTM A307 Gr. A unless noted otherwise.  
 The anchor rods shall be installed according to Article 509.06 of the Standard Specifications. Embedment shall be 4" min. or according to the manufactures specifications whatever is greater.  
 Structural steel plates and bars of the Steel Railing shall conform to the requirements of ASTM A36/36M.  
 Tubular steel posts shall be according to the requirements of ASTM A500, Grade B.  
 All steel rail members, with the exception of the stainless steel strand and fittings, shall be hot dipped galvanized according to 509.05 of the Standard Specifications.  
 All studs shall be 1/2" x 4" granular or solid flux filled headed studs automatically end welded to plates.  
 See Sheets 7 thru 10 of 22 and Sheets 15 & 16 of 22 for rail post spacing.



**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Steel Railing (Special)	Foot	756

FINAL  
 DESIGNED: RGC 3/20/15  
 DRAWN: EJM 3/30/15  
 REVIEWED: KMS 10/11/2015

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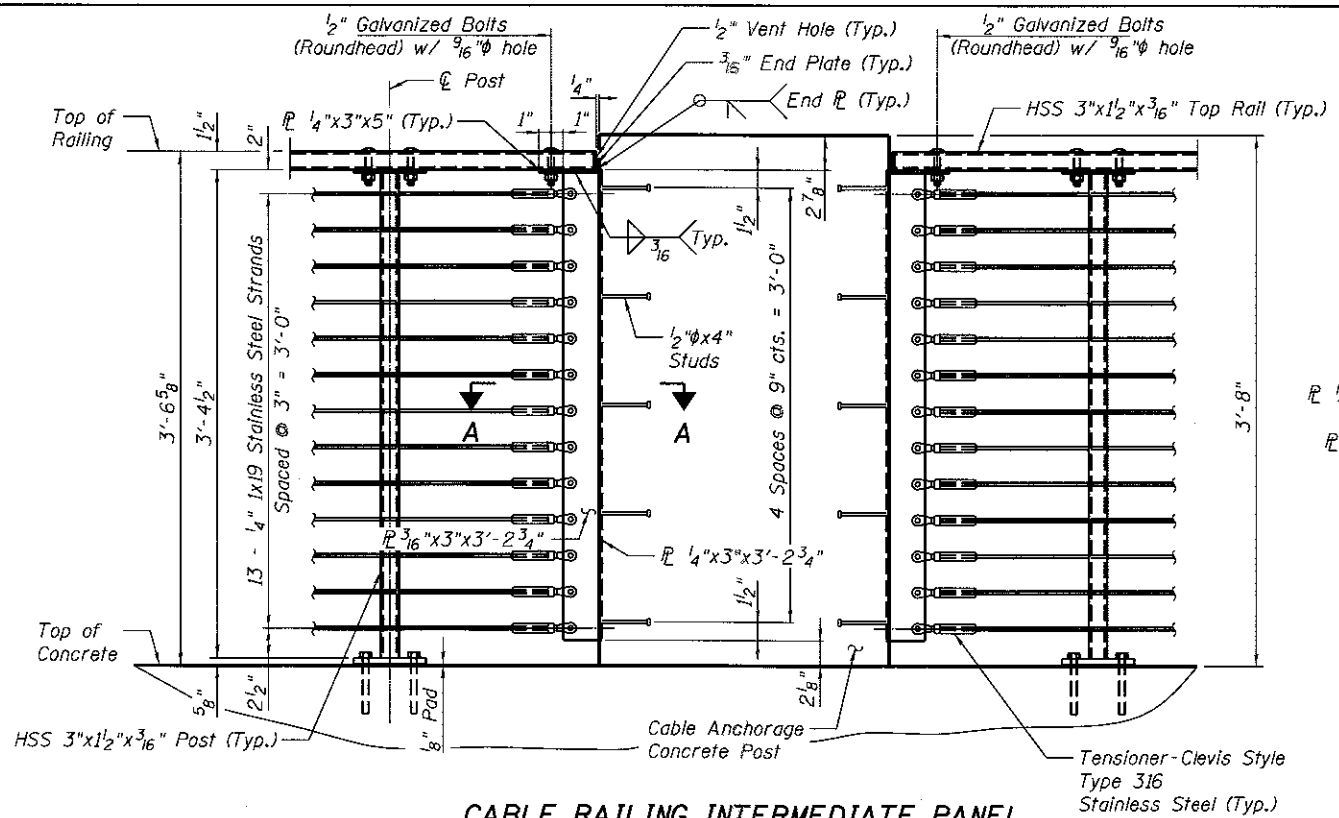
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

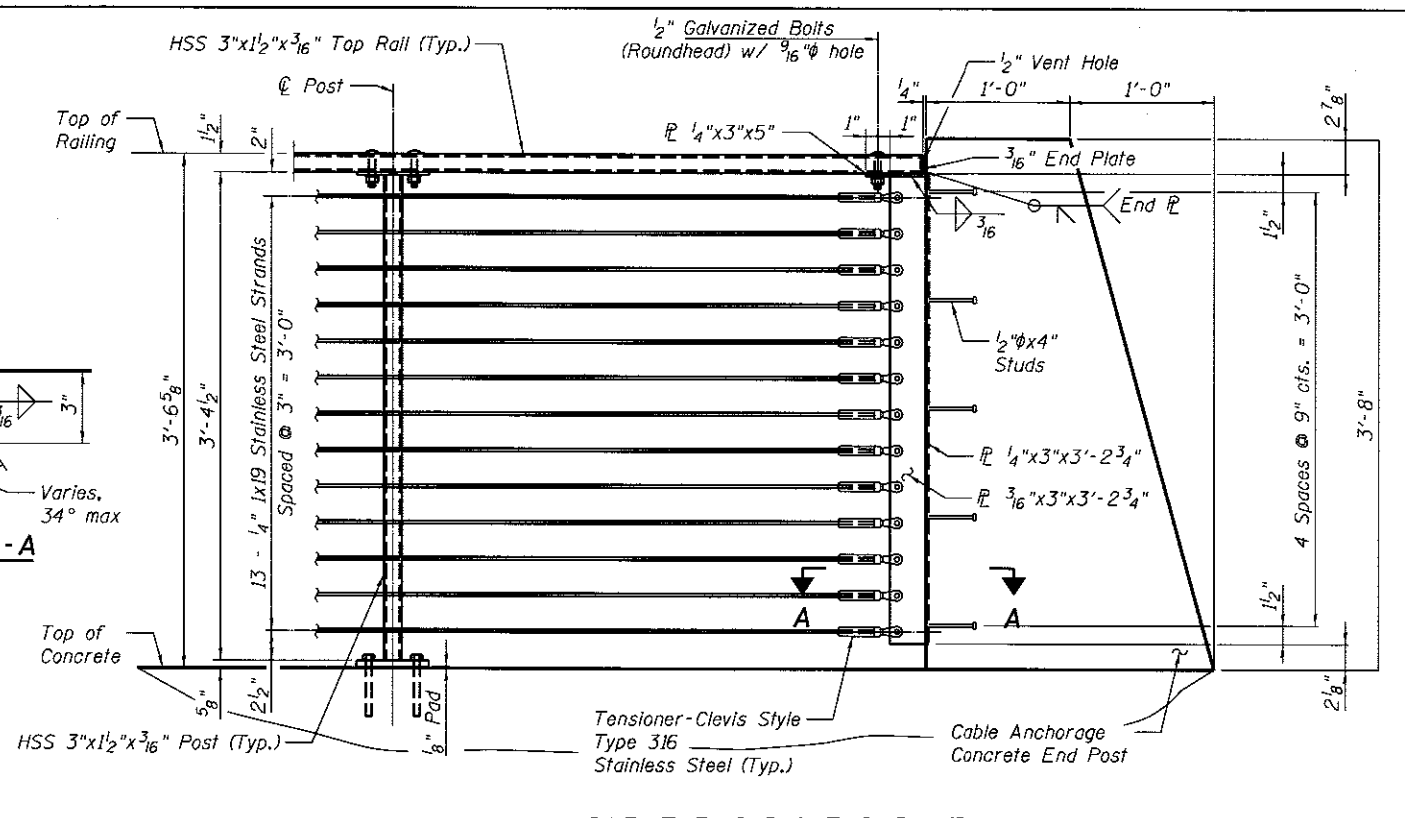
**RAILING DETAILS**  
**LAUREL STREET RETAINING WALLS**  
 SHEET NO. 17 OF 22 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 93704	
[ILLINOIS] FED. AID PROJECT				

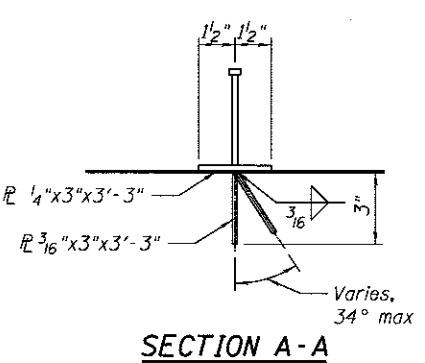




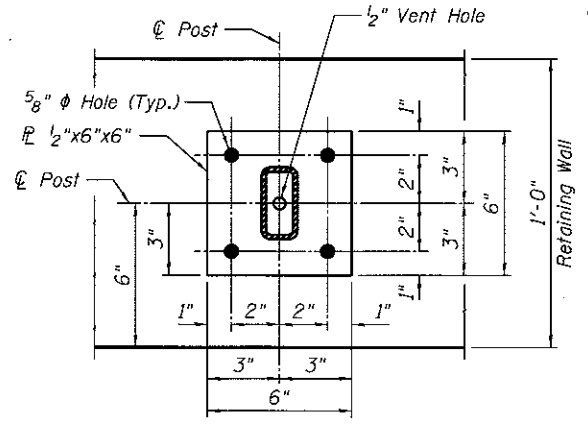
**CABLE RAILING INTERMEDIATE PANEL**



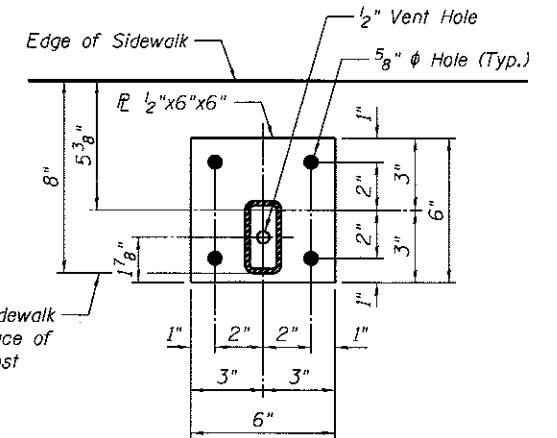
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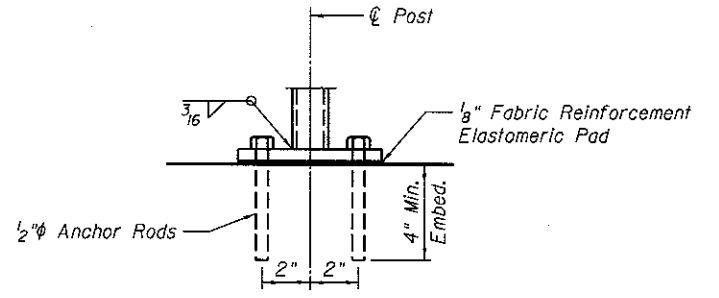
**SECTION A-A**



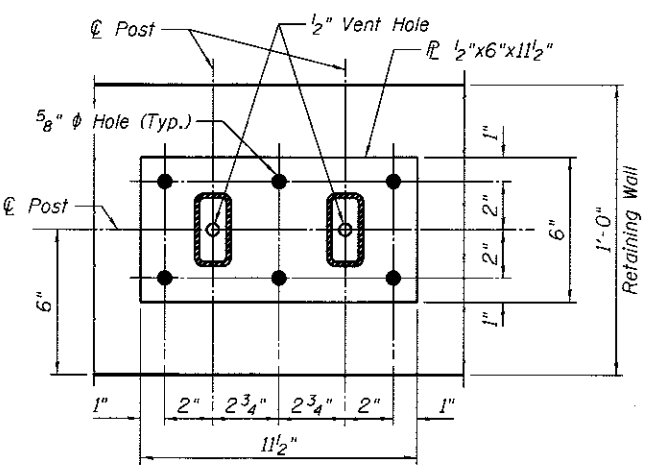
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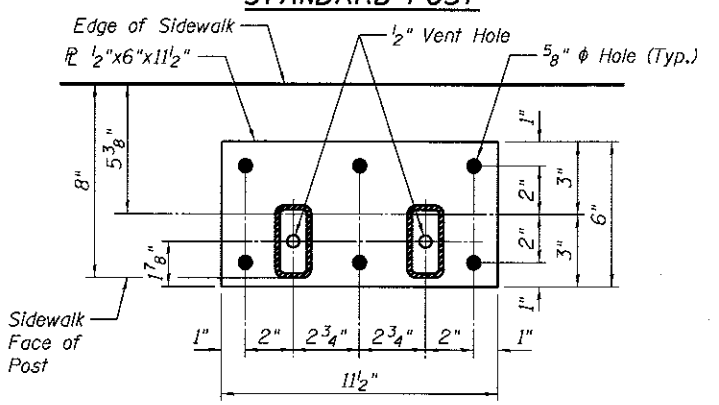
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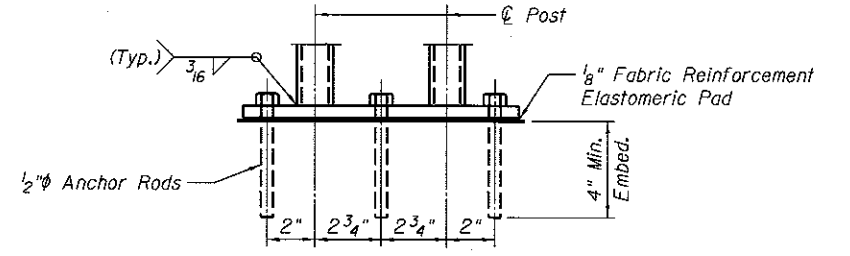
**STANDARD POST**



**INTERMEDIATE TENSIONING POSTS**



**INTERMEDIATE TENSIONING POSTS**



**INTERMEDIATE TENSIONING POSTS**

**TYPICAL ANCHOR ROD DETAILS**

**BASE PLATE DETAILS**

(Upper Retaining Walls)

**BASE PLATE DETAILS**

(Lower Retaining Walls)

FINAL  
DESIGNED  
DRAWN  
REVIEWED

3/30/15  
3/30/15  
10/17/2016

FILE NAME = USER NAME = pop02275

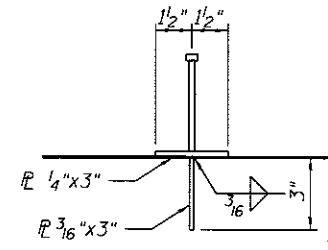
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CHECKED - RGC	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

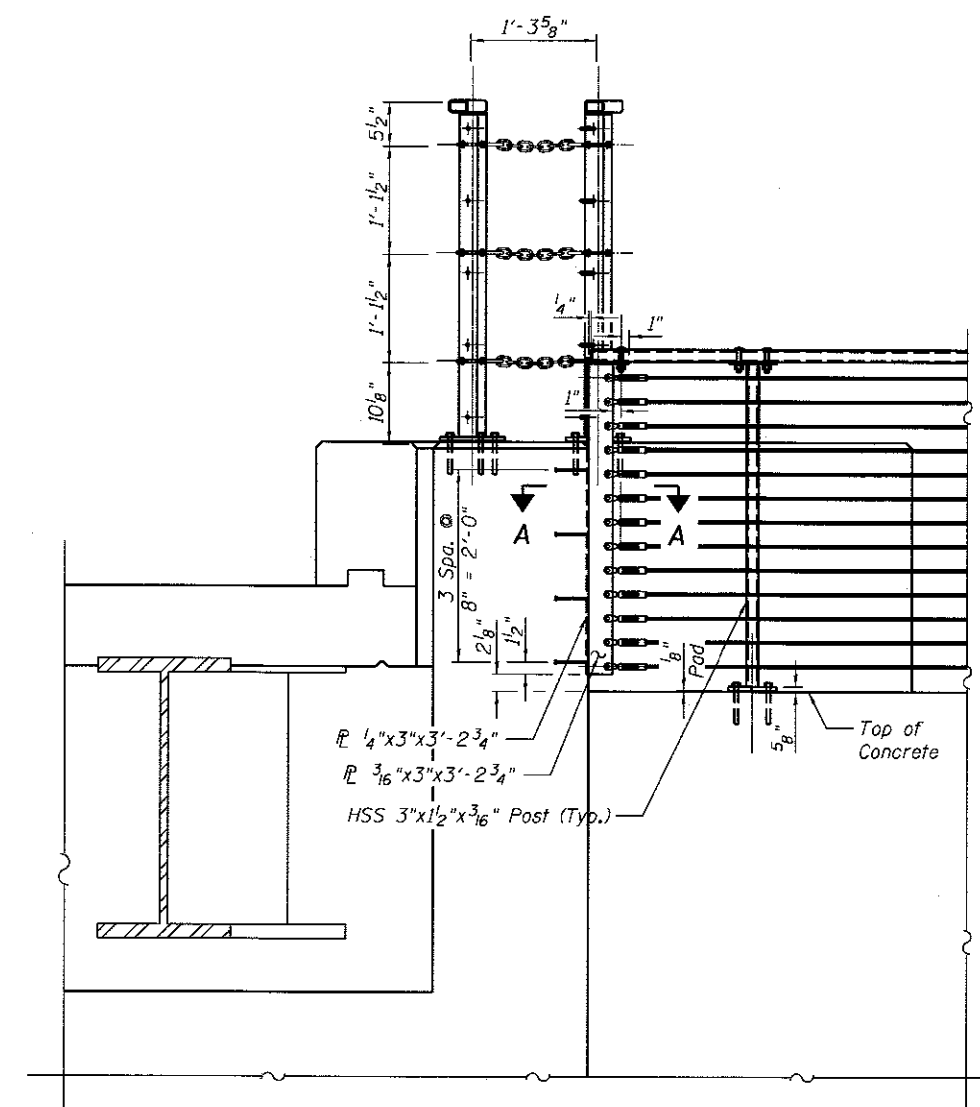
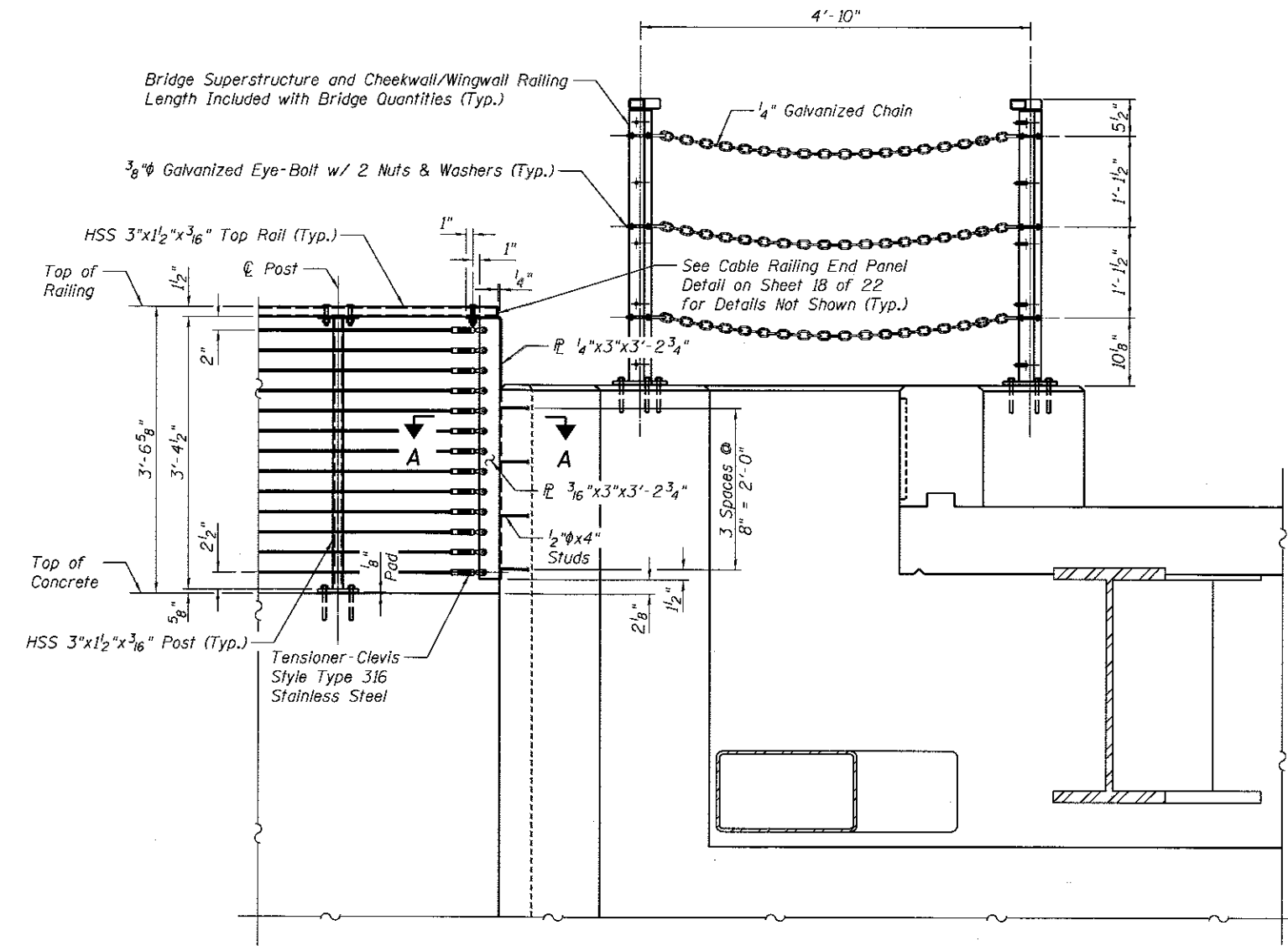
RAILING DETAILS  
LAUREL STREET RETAINING WALLS

SHEET NO. 18 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	337
			CONTRACT NO. 93704	
[ILLINOIS] FED. AID PROJECT				



**SECTION A-A**



**RETAINING WALL RAILING**

(At NSRR Bridge, Looking South at South Abutment, North Abutment Similar)

Note: Horizontal Dimensions Along Retaining Wall

FINAL  
DESIGNED 3/30/15  
DRAWN 3/30/15  
REVIEWED KMS 10/11/2016

\\p1\sp1\svr\306.hanson.dom\hanson\_projects\documents\02\Jobs\01798\CAD\Struct\Laurel\Sheet\01798-RetainingWallPlans

FILE NAME	USER NAME = pop00275	DESIGNED - KMS	REVISED -
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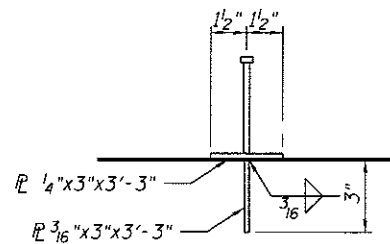
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS  
LAUREL STREET RETAINING WALLS**

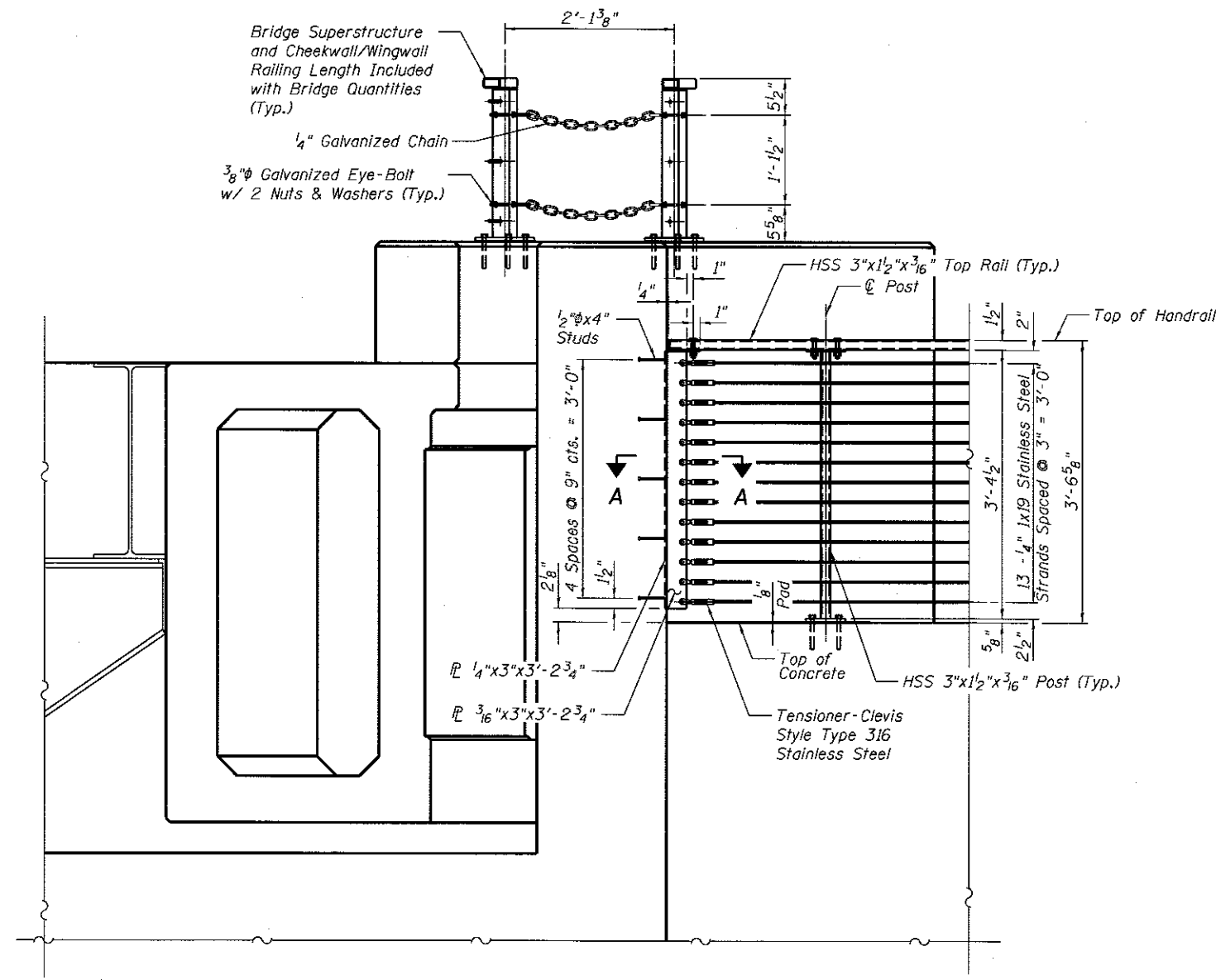
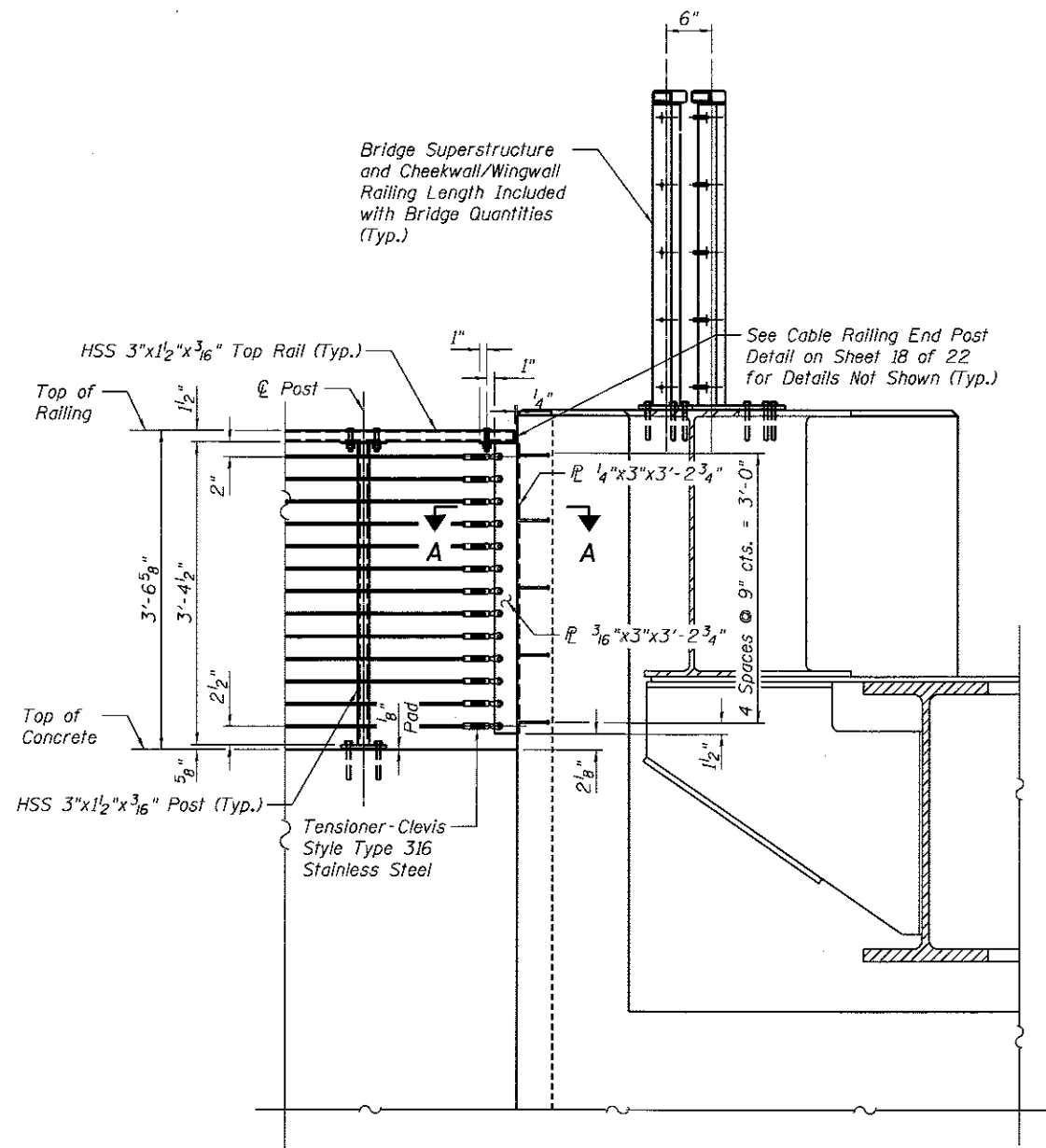
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	338
			CONTRACT NO. 93704	
[ILLINOIS] FED. AID PROJECT				

SHEET NO. 19 OF 22 SHEETS

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**SECTION A-A**



**RETAINING WALL RAILING**

(At UPRR Bridge, Looking South at South Abutment, North Abutment Similar)

Note: Horizontal Dimensions Along Retaining Wall

FINAL  
DESIGNED 3/30/15  
DRAWN 3/30/15  
REVIEWED 10/17/2016

per:\spt-svr-385.hanson.dom\hanson\_projects\Documents\09Jobs\09L01798\CAD\Struct\Laurel\Sheet\09L01798-RetainingWallPlans

FILE NAME :	USER NAME :	DESIGNED -	REVISED -
	pop0275	KMS	-
		CHECKED -	REVISED -
		RGC	-
		DRAWN -	REVISED -
		EJM	-
		CHECKED -	REVISED -
		RGC	-

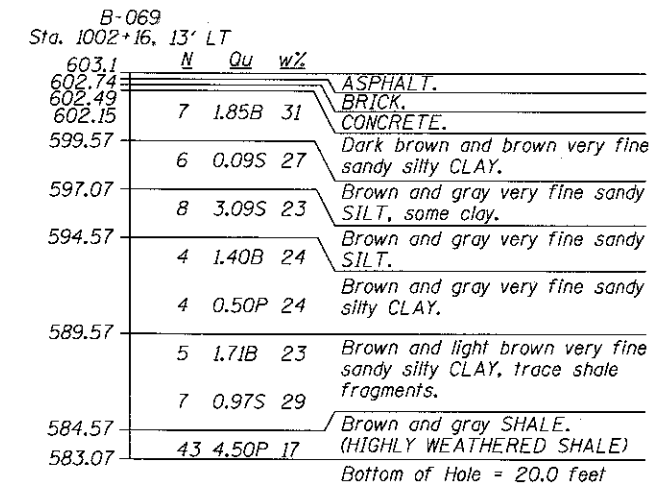
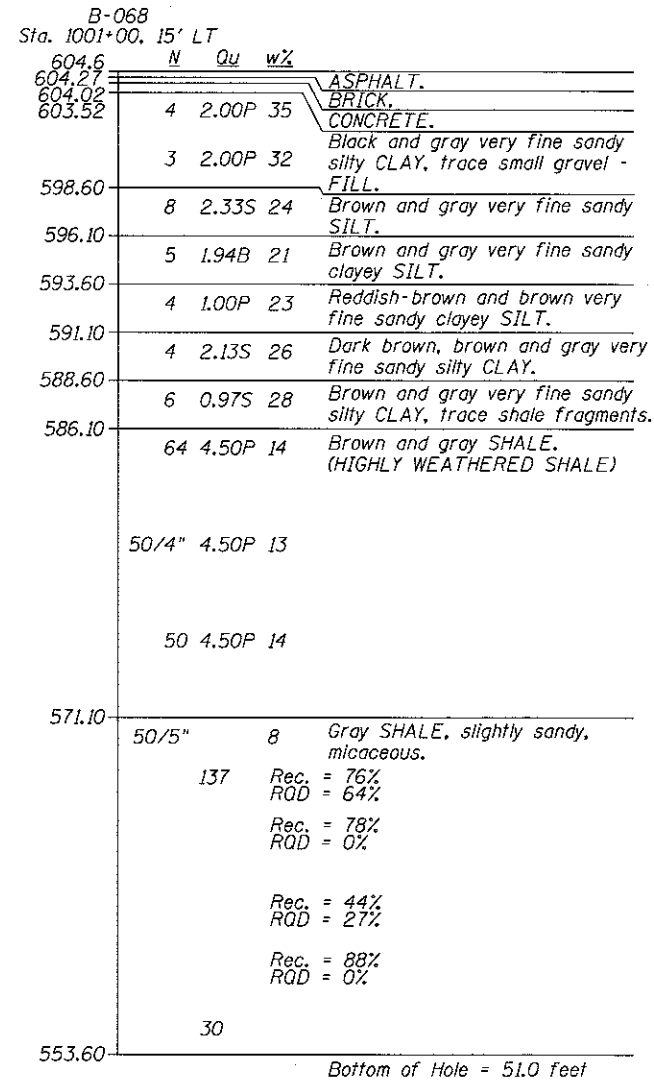
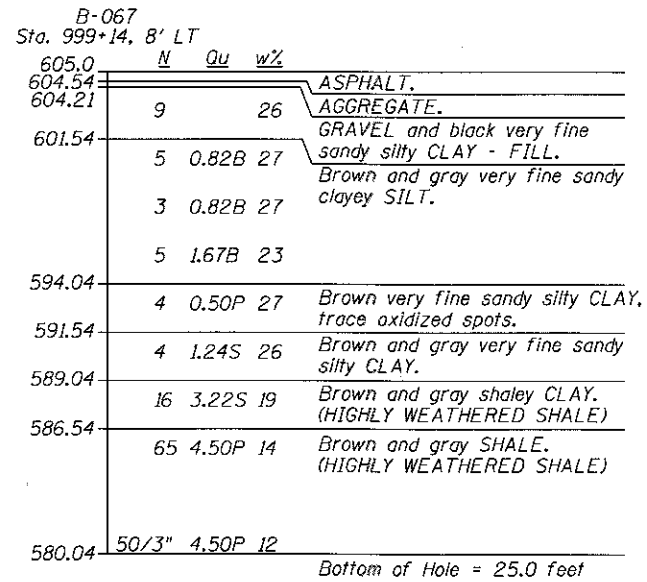
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS  
LAUREL STREET RETAINING WALLS**

SHEET NO. 20 OF 22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	339
			CONTRACT NO. 93704	

ILLINOIS FED. AID PROJECT



**LEGEND**

N Standard Penetration Test N (blows/ft)  
 Qu Unconfined Strength (tsf)  
 w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
 558.10 DD = during drilling  
 Oh = at completion  
 24h = 24 hours after completion

DESIGNED	RGC	3/30/15
DRAWN	EJM	3/30/15
REVIEWED	KMS	10/17/2016

\\ps1-svr306.hanson.com\hanson\_projects\Documents\09\Jobs\09\101798\CAD\Struct\Laurel\Sheets\09\101798-RetainingWallPlans



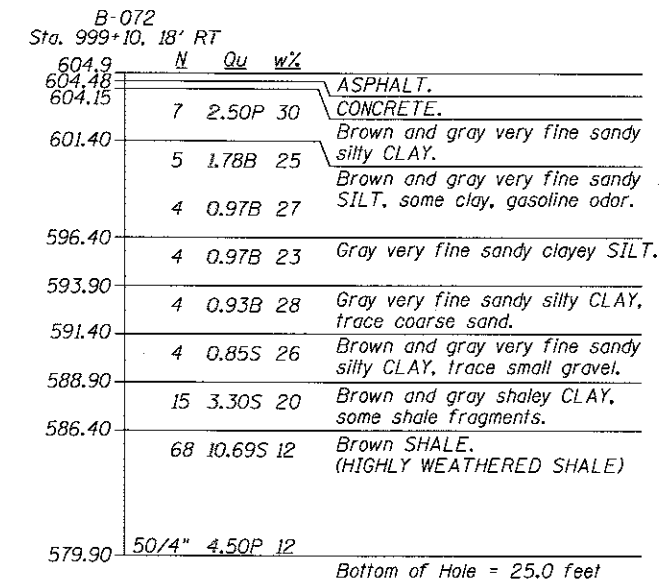
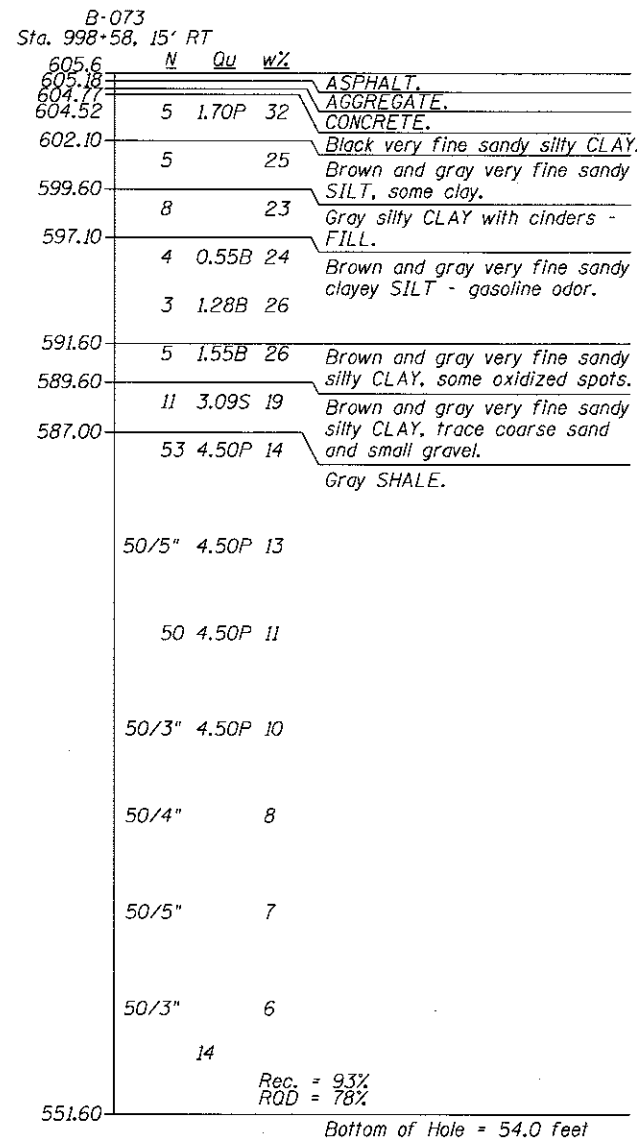
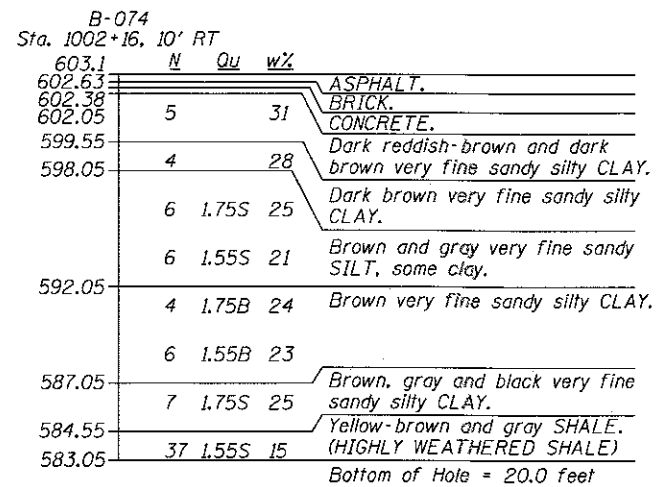
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PLOT SCALE =	CHECKED - RGC	REVISED -
PLOT DATE =	DRAWN - EJM	REVISED -
	CHECKED - RGC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBSURFACE DATA PROFILE  
LAUREL STREET RETAINING WALLS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	340
			CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				

SHEET NO. 21 OF 22 SHEETS



**LEGEND**

- N Standard Penetration Test N (blows/ft)
- Qu Unconfined Strength (tsf)
- w% Natural Moisture Content (%)
- DD Water Surface Elevation Encountered in Boring
- 558.10 DD = during drilling
- Oh = at completion
- 24h = 24 hours after completion

DESIGNED	3/30/15
DRAWN	3/30/15
REVIEWED	10/11/2016

\\sp1-svr-306.hanson.com\hanson\Projects\Documents\09Jobs\09L01798\CAD\Struct\Laurel\Sheets\09L01798-RetainingWallPlans



USER NAME = pop00275	DESIGNED - KMS	REVISIONS
	CHECKED - RGC	REVISIONS
PLOT SCALE =	DRAWN - EJM	REVISIONS
PLOT DATE =	CHECKED - RGC	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUBSURFACE DATA PROFILE  
LAUREL STREET RETAINING WALLS**

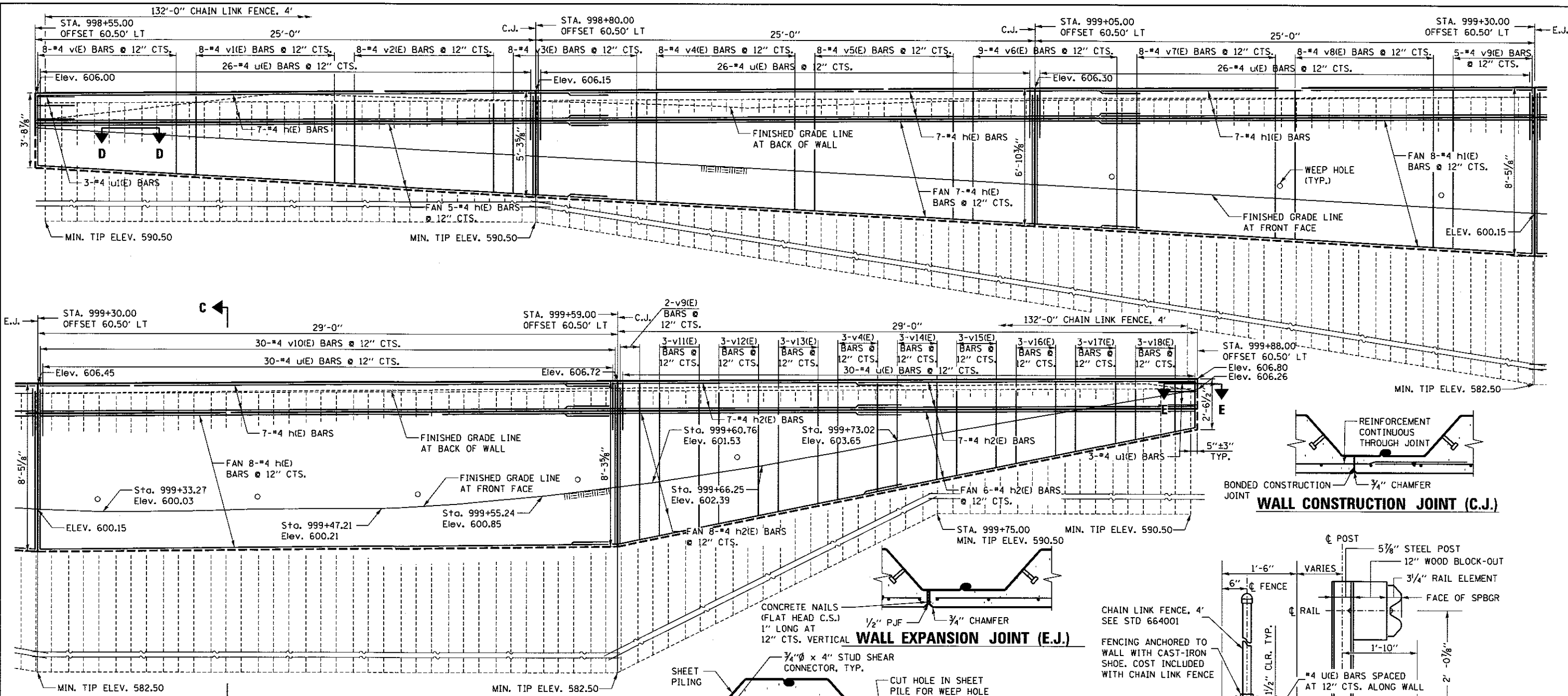
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	341
			CONTRACT NO. 93704	

SHEET NO. 22 OF 22 SHEETS

ILLINOIS FED. AID PROJECT



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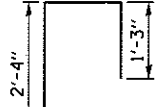
**MINIMUM BAR LAP**

#4 BARS = 1'-10"

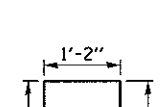
**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	41	#4	28'-6"	—	v14(E)	3	#4	4'-10"	—
h1(E)	15	#4	21'-7"	—	v15(E)	3	#4	4'-3"	—
h2(E)	28	#4	16'-10"	—	v16(E)	3	#4	3'-8"	—
					v17(E)	3	#4	3'-1"	—
v(E)	8	#4	3'-6"	—	v18(E)	3	#4	2'-6"	—
v1(E)	8	#4	3'-11"	—					
v2(E)	8	#4	4'-5"	—	u(E)	138	#4	4'-10"	—
v3(E)	8	#4	4'-11"	—	u1(E)	6	#4	4'-10"	—
v4(E)	11	#4	5'-5"	—					
v5(E)	8	#4	5'-11"	—	CHAIN LINK FENCE, 4'	FOOT		132	
v6(E)	9	#4	6'-5"	—	CONCRETE STRUCTURES	CU. YD.		29.3	
v7(E)	8	#4	6'-11"	—	STUD SHEAR CONNECTORS	EACH		339	
v8(E)	8	#4	7'-5"	—					
v9(E)	7	#4	7'-11"	—	REINFORCEMENT BARS EPOXY COATED	POUND		2330	
v10(E)	30	#4	8'-0"	—	PERMANENT SHEET PILING	SQ. FT.		2544	
v11(E)	3	#4	7'-2"	—	STRUCTURE EXCAVATION	CU. YD.		50	
v12(E)	3	#4	6'-7"	—					
v13(E)	3	#4	6'-0"	—					

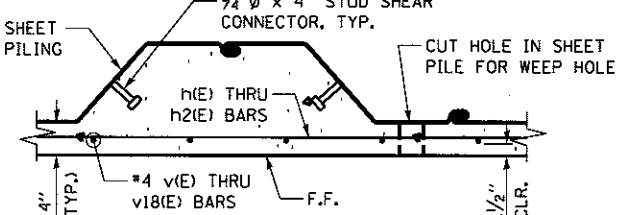
**BAR u(E)**



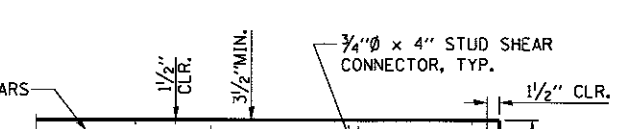
**BAR u1(E)**



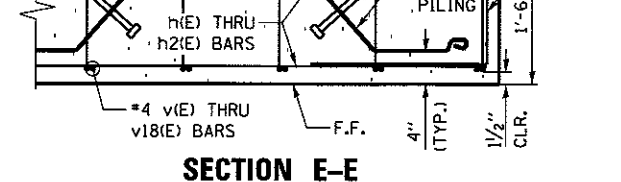
**WALL EXPANSION JOINT (E.J.)**



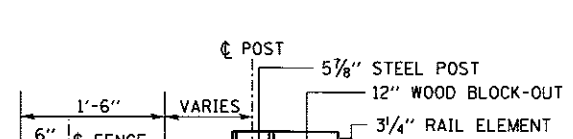
**SECTION D-D**



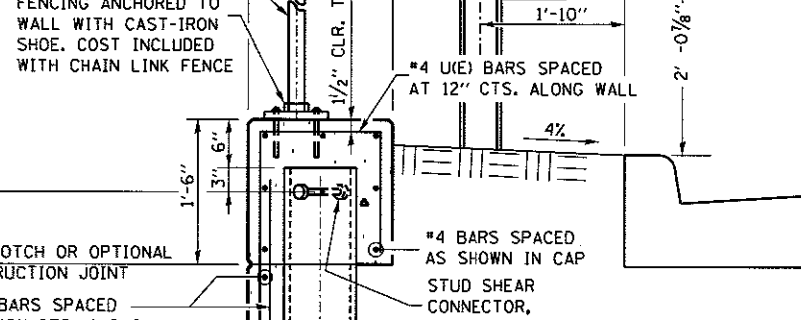
**SECTION E-E**



**WALL CONSTRUCTION JOINT (C.J.)**



**SECTION C-C SHEET PILE RETAINING WALL**



**SECTION C-C SHEET PILE RETAINING WALL**  
STA. 998 + 55.00 TO STA. 999 + 88.00

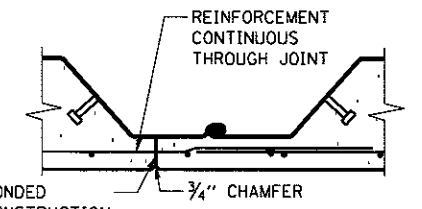
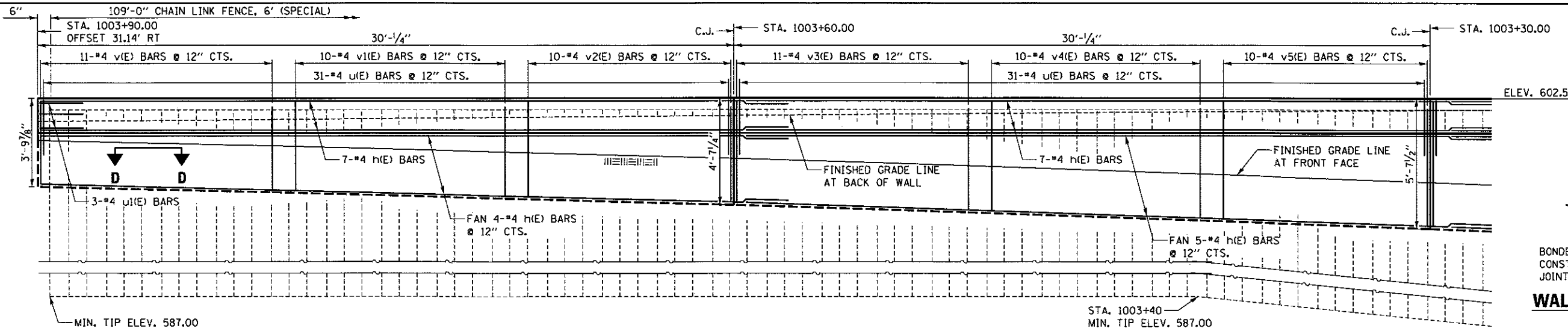
SEE ENLARGED PLAN DETAIL - LAUREL ST  
NOTES:  
STEEL SHEET PILING SHALL BE ACCORDING TO ASTM A572, GRADE 50 MIN.  
MINIMUM SECTION MODULUS = 11.73 IN<sup>3</sup>/FT.  
SPACE FENCE POSTS TO MISS WALL JOINTS.  
2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION

FINAL  
DESIGNED: KMS 8/14/2016  
DRAWN: KMS 9/23/2016  
REVIEWED: RGC 10/11/2016

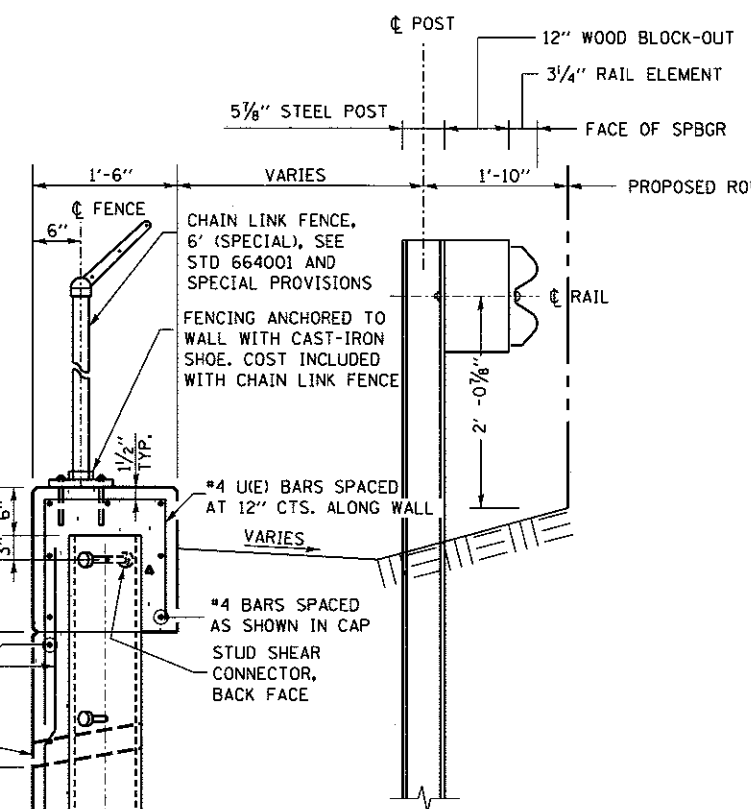
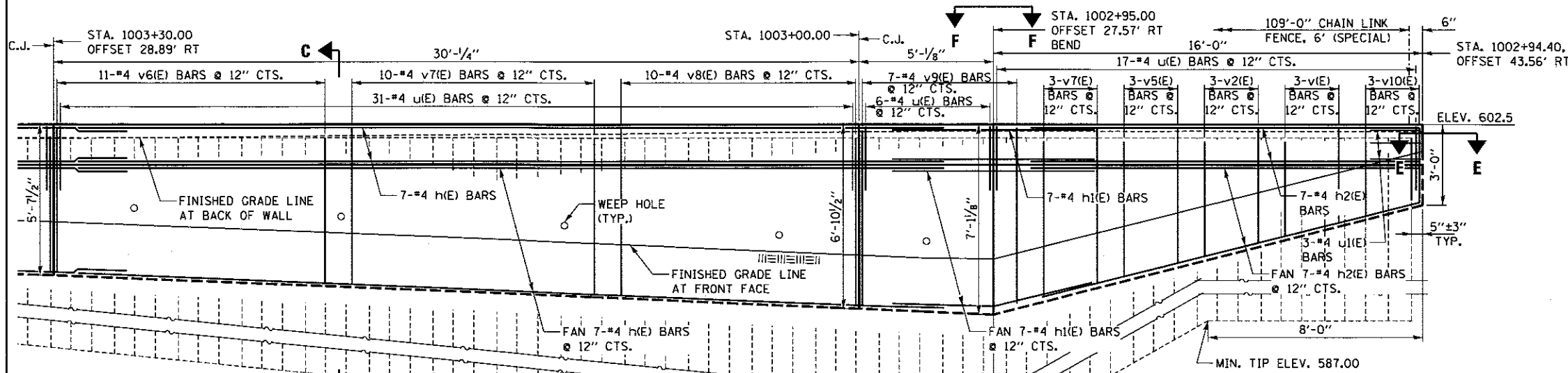
FILE NAME = 0909L0179B-shr-Details-Road_ASH_LAUREL-093.dgn	USER NAME = pap0275	DESIGNED - KMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	N. RETAINING WALL STA. 998 + 55 TO STA. 999 + 88 LAUREL STREET RETAINING WALLS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 10.0000 ' / 1"	CHECKED - RGC	REVISED -	14-00477-00-BR			SANGAMON	403	342		
PLOT DATE = 2/24/2017	DATE -	REVISED -	09L0179B			CONTRACT NO. 93704				
			[ILLINOIS] FED. AID PROJECT							



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**WALL CONSTRUCTION JOINT (C.J.)**



**SECTION C-C  
SHEET PILE RETAINING WALL  
STA. 1002+94.40 TO STA. 1003+90**

SEE ENLARGED PLAN DETAIL - LAUREL ST

NOTES:  
STEEL SHEET PILING SHALL BE ACCORDING TO ASTM A572, GRADE 50 MIN.

MINIMUM SECTION MODULUS = 9.83 IN<sup>3</sup>/FT.

SPACE FENCE POSTS TO MISS WALL JOINTS.

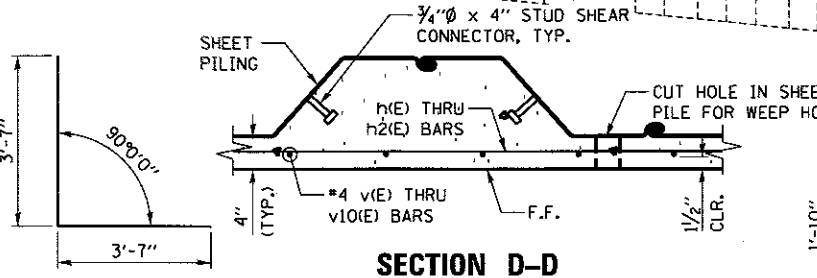
2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION

**MINIMUM BAR LAP**

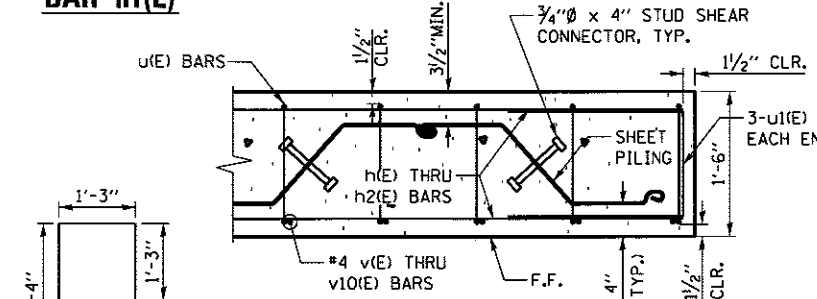
#4 BARS = 1'-10"

**BILL OF MATERIAL**

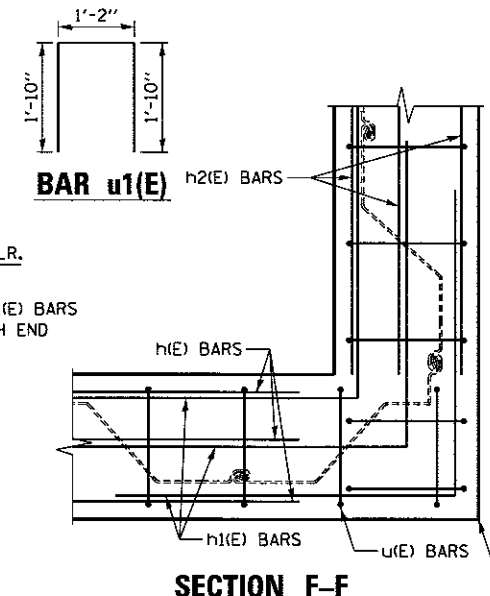
BAR	NO.	SIZE	LENGTH	SHAPE
h1(E)	37	#4	32'-3"	—
h2(E)	14	#4	7'-2"	—
h2(E)	14	#4	14'-5"	—
v1(E)	13	#4	3'-6"	—
v2(E)	10	#4	3'-10"	—
v2(E)	13	#4	4'-1"	—
v3(E)	11	#4	4'-4"	—
v4(E)	10	#4	4'-8"	—
v5(E)	13	#4	5'-0"	—
v6(E)	11	#4	5'-4"	—
v7(E)	13	#4	5'-9"	—
v8(E)	10	#4	6'-2"	—
v9(E)	7	#4	6'-6"	—
v10(E)	3	#4	2'-9"	—
u1(E)	116	#4	4'-10"	□
u2(E)	6	#4	4'-10"	□
CHAIN LINK FENCE, 6" (SPECIAL)		FOOT	109	
CONCRETE STRUCTURES		CU. YD.	20.7	
STUD SHEAR CONNECTORS		EACH	244	
REINFORCEMENT BARS EPOXY COATED		POUND	1760	
PERMANENT SHEET PILING		SQ. FT.	1785	
STRUCTURE EXCAVATION		CU. YD.	33	



**BAR h1(E)**



**BAR u1(E)**



**SECTION F-F**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

S. RETAINING WALL STA. 1002+94.40 TO STA. 1003+90  
LAUREL STREET RETAINING WALLS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	343
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

FINAL  
DESIGNED: KMS 8/20/2016  
DRAWN: KMS 9/23/2016  
REVIEWED: RGC 10/17/2016

FILE NAME	USER NAME	DESIGNED	REVISED
D609L0179B-shit-Details-Road.ASH.LAUREL-003.dgn	pop0275	KMS	-
		KMS	-
		RGC	-
		-	-

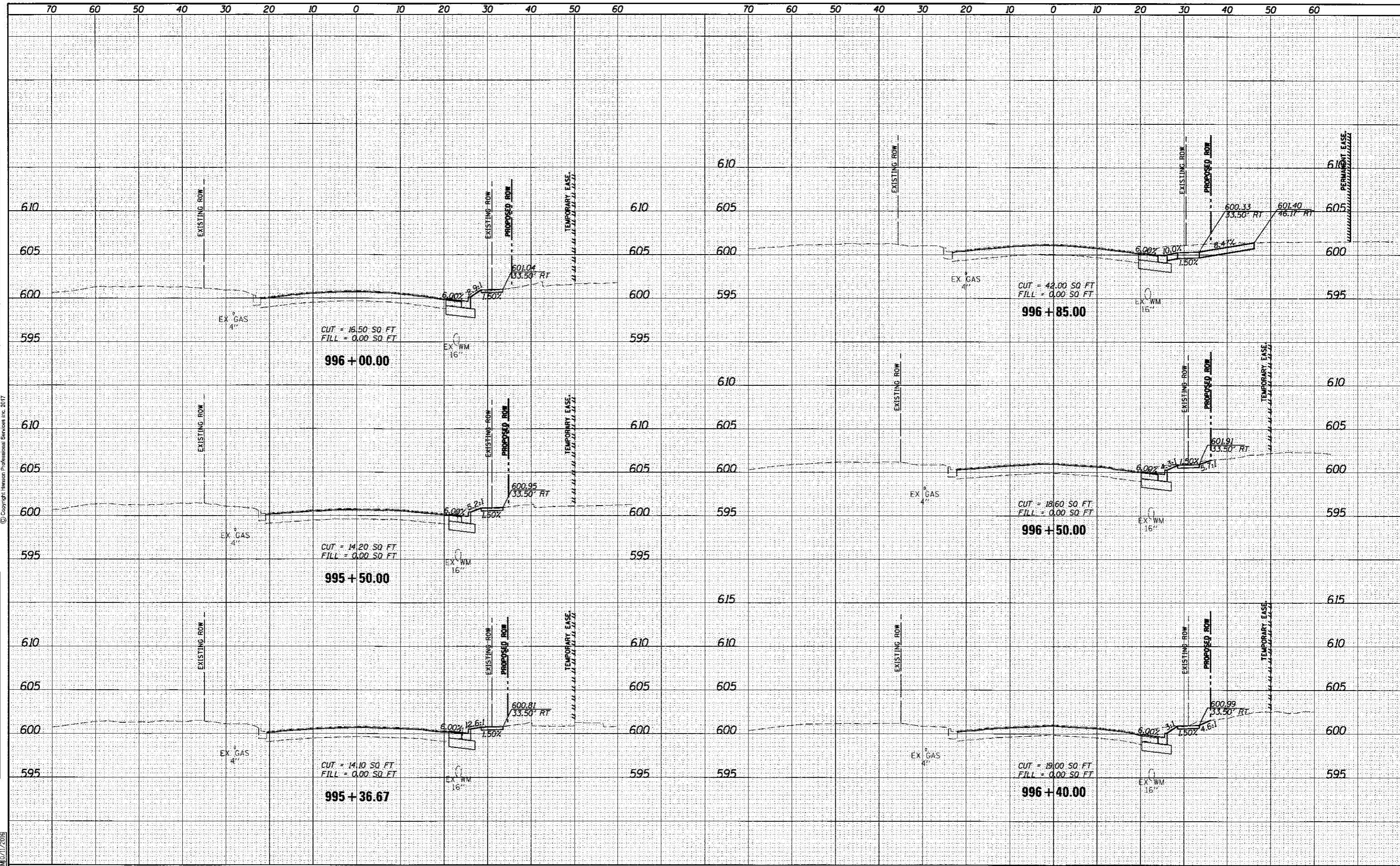


DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	8/11/2015



FILE NAME: D:\09L0179B-ASH18-081.dgn	USER NAME: pep0275	DESIGNED - JWM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SPRINGFIELD RAIL IMPROVEMENTS PROJECT</b> <b>SPRINGFIELD, SANGAMON COUNTY, ILLINOIS</b> <b>CROSS SECTIONS - ASH STREET - 1</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.0000' / 1" =	CHECKED - JWM/MNM	REVISED -	14-00477-00-BR			SANGAMON	403	344		
PLOT DATE = 2/24/2017	DATE -	REVISED -	09L0179B			CONTRACT NO. 93704				
XS_SHEET_temporary_model_name.1			ILLINOIS FED. AID PROJECT							

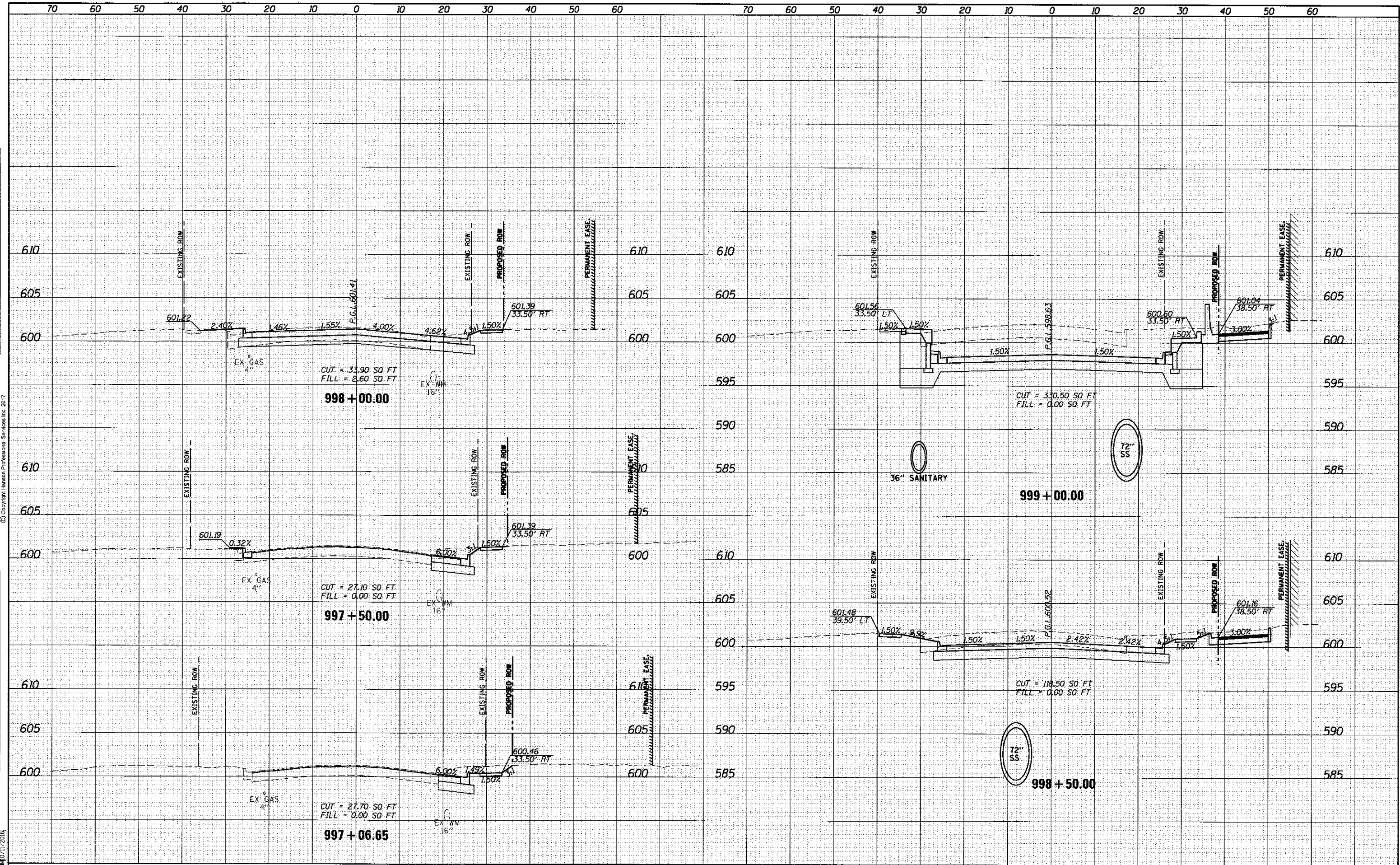


FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	8/11/2015



FILE NAME: D689L0179B-ASH00-001.dgn  
 USER NAME: pop0275  
 PLOT SCALE: 20.0000' / 1" =  
 PLOT DATE: 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE		REVIS	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - ASH STREET - 2**

SCALE: SHEET 2 OF 6 SHEETS | STA. 997+06.65 TO STA. 999+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	345
	09L0179B		CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				

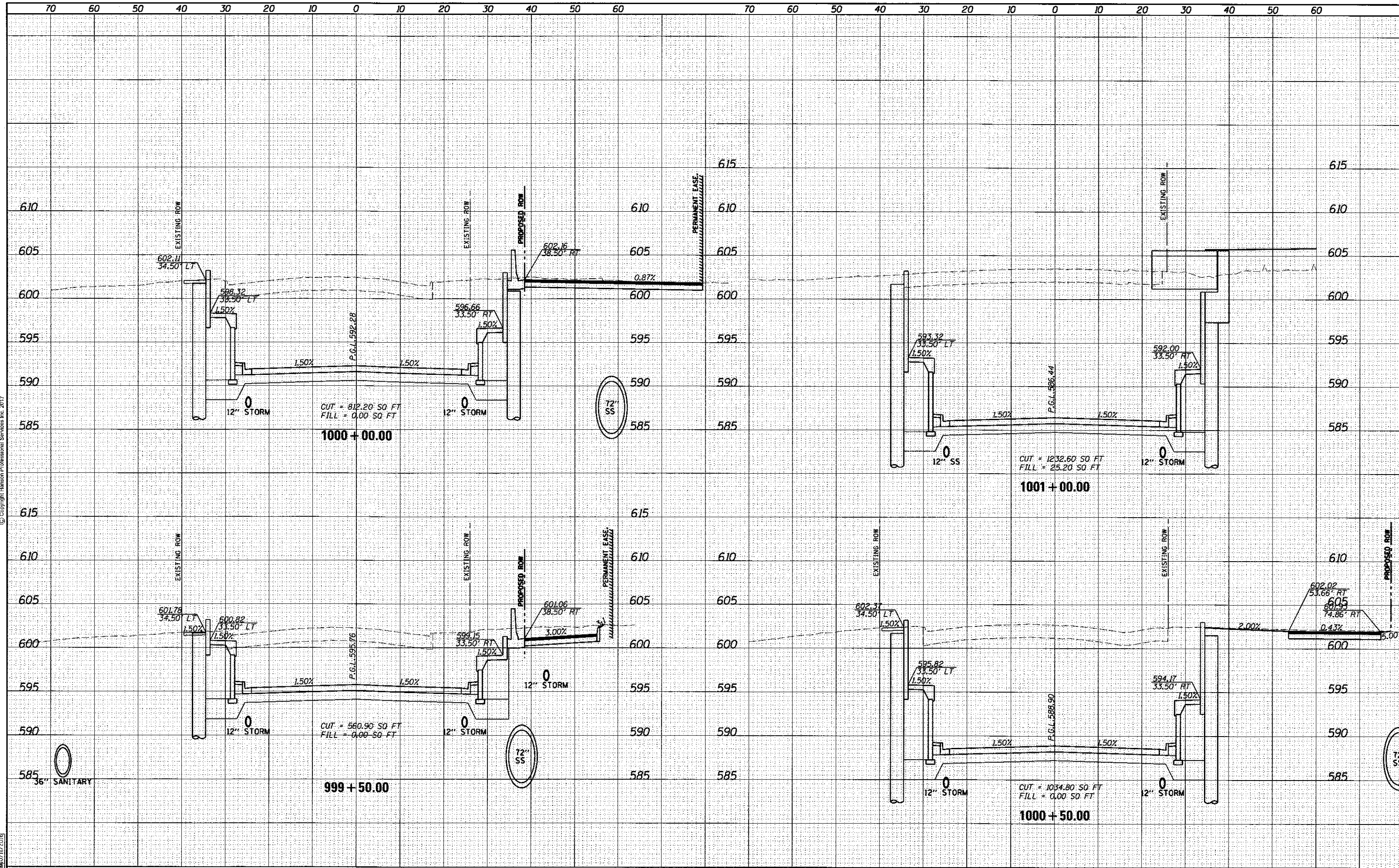
DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JRM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JMM/MNM	8/17/2015



FILE NAME = D609L01798-ASH10-001.dgn	USER NAME = pop0275	DESIGNED - JRM	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SPRINGFIELD RAIL IMPROVEMENTS PROJECT SPRINGFIELD, SANGAMON COUNTY, ILLINOIS CROSS SECTIONS - ASH STREET - 3</b>	SCALE: SHEET 3 OF 6 SHEETS STA. 999+50.00 TO STA.1001+00.00	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20,000 / 1"	CHECKED - JMM/MNM	DRAWN - DJP	REVISED -			14-00477-00-BR	SANGAMON	403	346		
PLOT DATE = 2/24/2017	DATE -	DESIGNED - JRM	REVISED -			09L01798					
XS_SHEET-temporary-model_name_3						CONTRACT NO. 93704		ILLINOIS FED. AID PROJECT			

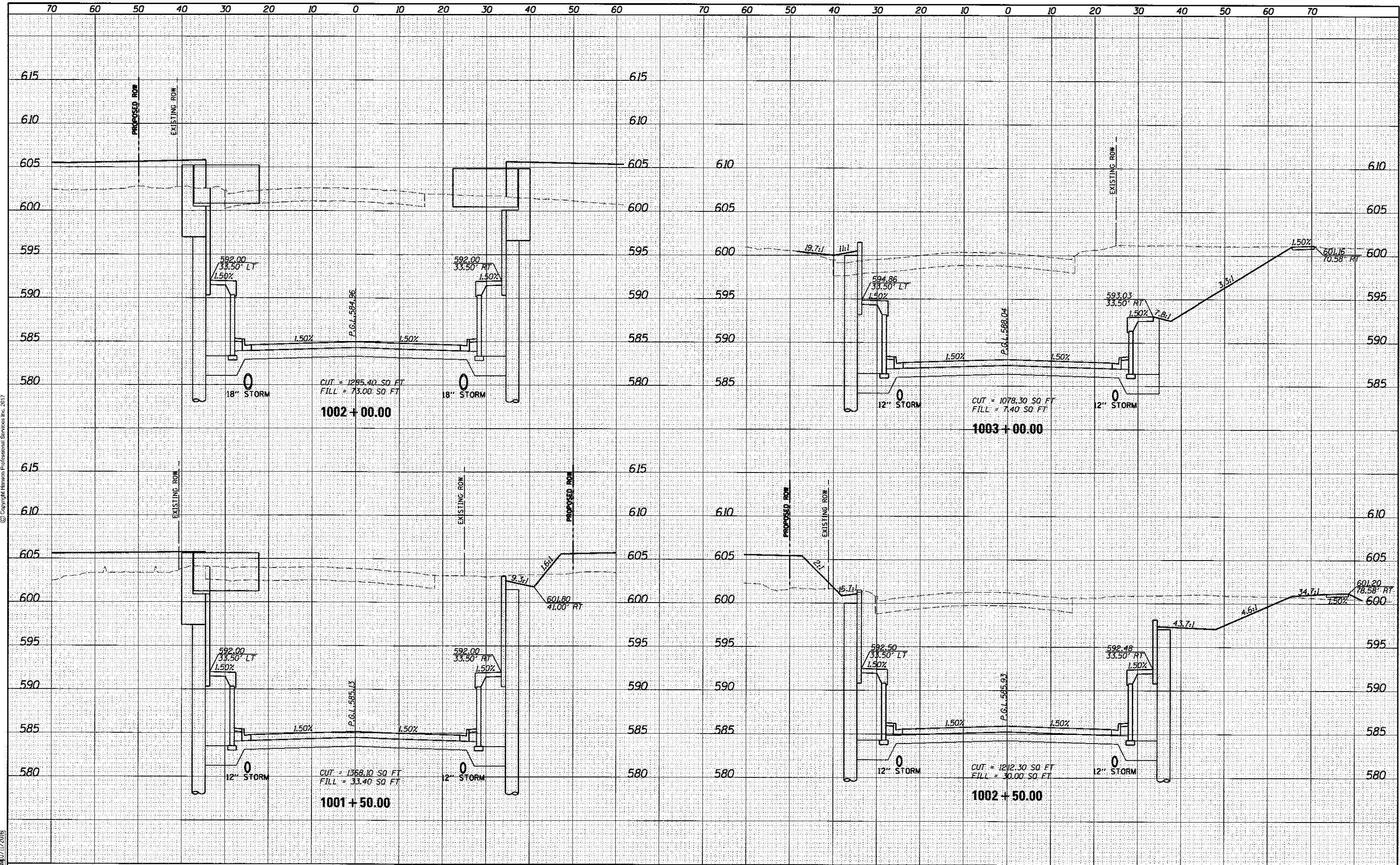


DATE	
BY	
SUPERSED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
SUPERSED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
REVIEWED	JWM/MNM	1/20/2015



FILE NAME \*  
 D609L0179B-ASH10-001.dgn  
 USER NAME \* pap0275  
 PLOT SCALE = 20.0000' / 1" =  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	1/20/2015	REVIS	-
DRAWN	DJP	1/20/2015	REVIS	-
CHECKED	JWM/MNM	1/20/2015	REVIS	-
DATE			REVIS	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - ASH STREET - 4**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	09L0179B		CONTRACT NO.	93704
ILLINOIS FED. AID PROJECT				

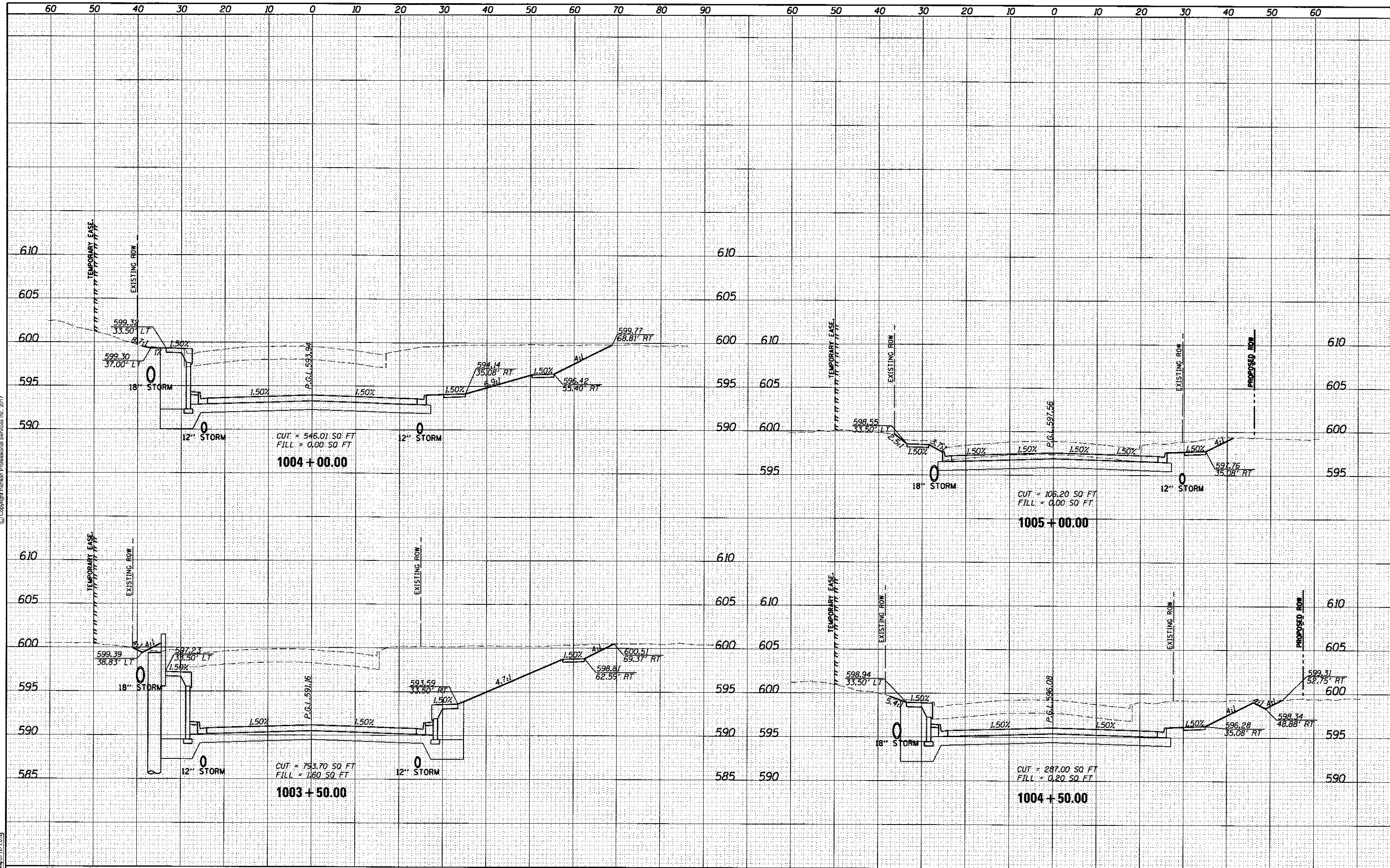
SCALE: SHEET 4 OF 6 SHEETS STA. 1001+50.00 TO STA. 1003+00.00

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	11/20/16



FILE NAME = 0609L0179B-ASH10-001.dgn  
 USER NAME = pop0275  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE		REVIS	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - ASH STREET - 5  
 SCALE: SHEET 5 OF 6 SHEETS STA. 1003+50.00 TO STA. 1005+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	348
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

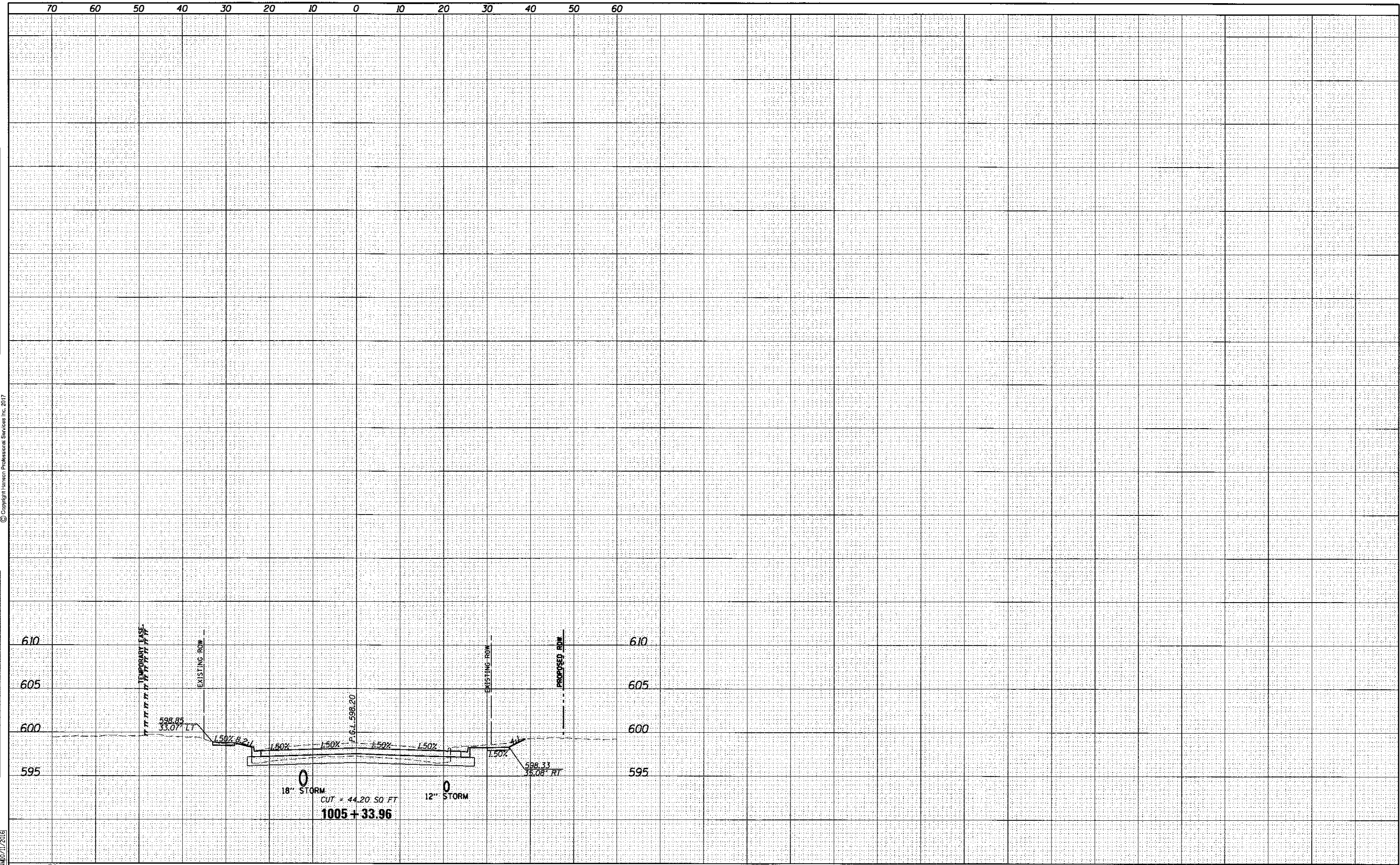


FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	8/11/2015
REVIEWED		



FILE NAME = D:\09L0179B-ASH08-001.dgn  
 USER NAME = pop08275  
 PLOT SCALE = 20.0000' / 1" = 1" = 20' = 60960  
 PLOT DATE = 2/24/2017

DESIGNED	-	JWM	REVISION	-
DRAWN	-	DJP	REVISION	-
CHECKED	-	JWM/MNM	REVISION	-
DATE	-		REVISION	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - ASH STREET - 6**

SCALE: SHEET 6 OF 6 SHEETS STA. 1005+33.96 TO STA. 1005+33.96

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	349
	09L0179B	CONTRACT NO.	93704	
ILLINOIS FED. AID PROJECT				

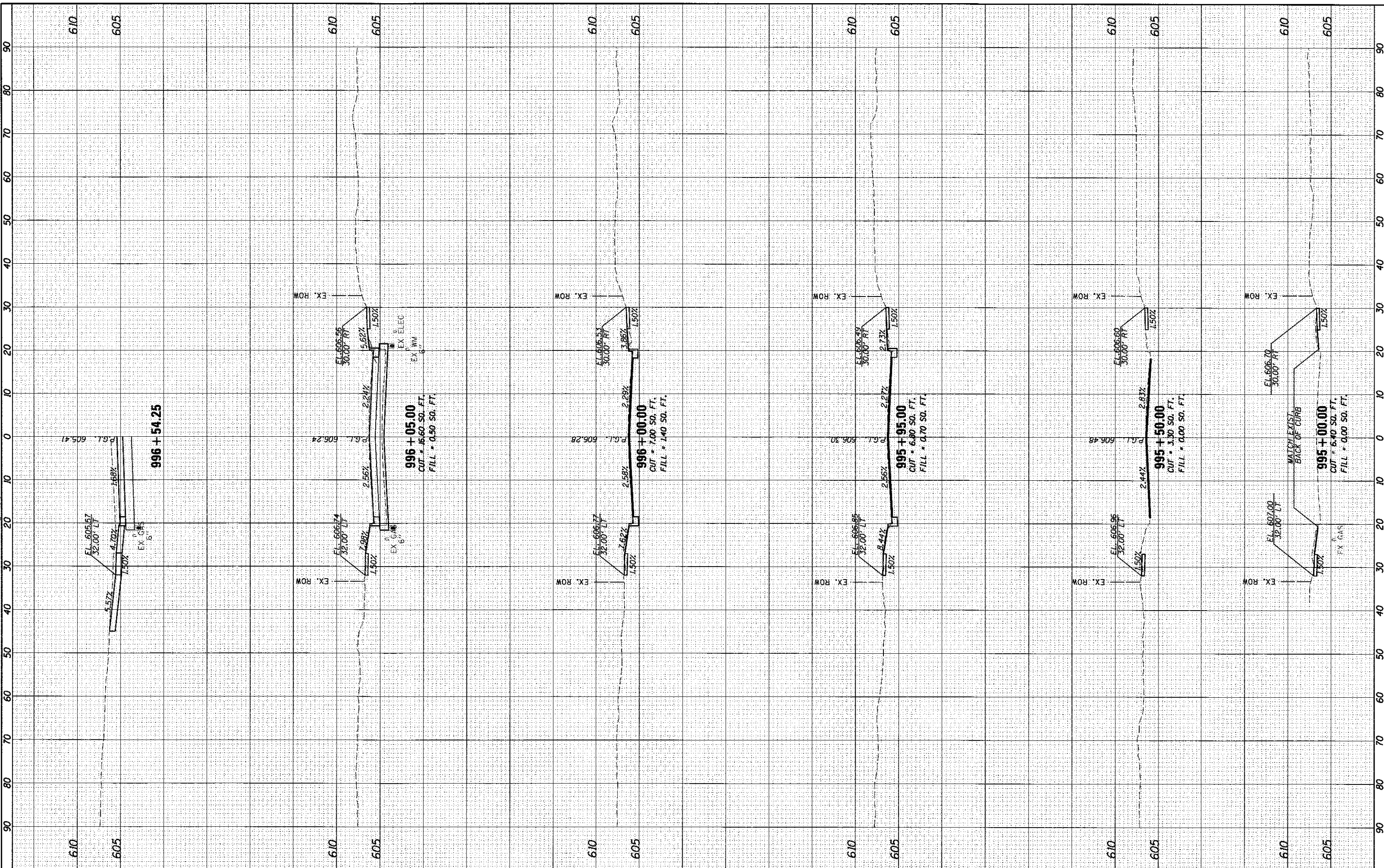
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		



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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	11/20/16
REVISIONS		



FILE NAME	D:\09L0179B\shht-xsht-LAU-001.dgn
USER NAME	pop02275
DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
DATE	2/24/2017

DESIGNED	JWM	REVISED	-
DRAWN	DJP	REVISED	-
CHECKED	JWM/MNM	REVISED	-
DATE	2/24/2017	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - LAUREL STREET - 1

SCALE: SHEET 1 OF 7 SHEETS STA. 995+00.00 TO STA. 996+54.25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	350
	09L0179B	CONTRACT NO.	93704	
ILLINOIS FED. AID PROJECT				



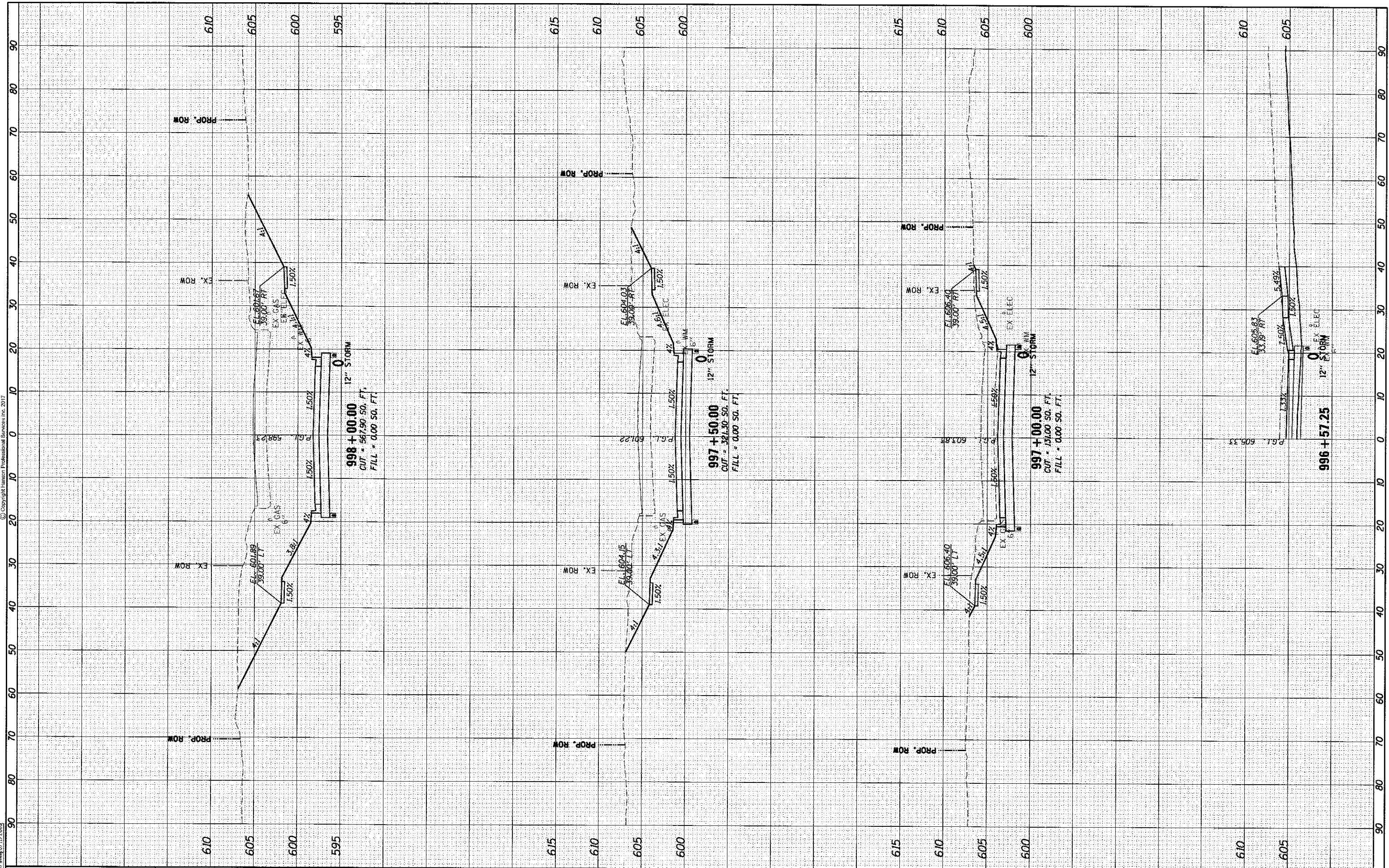
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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

DESIGNED	JMM	1/20/2015
DRAWN	DJP	1/20/2015
REVIEWED	JMM/MNM	11/20/16



FILE NAME = 0609L0179B-sht-xxsht-LAU-001.dgn  
 USER NAME = pop08275  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED	JMM
DRAWN	DJP
CHECKED	JMM/MNM
DATE	

REVISED	
REVISED	
REVISED	
REVISED	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - LAUREL STREET - 2**

SCALE: SHEET 2 OF 7 SHEETS STA. 996+57.25 TO STA. 998+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	351
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

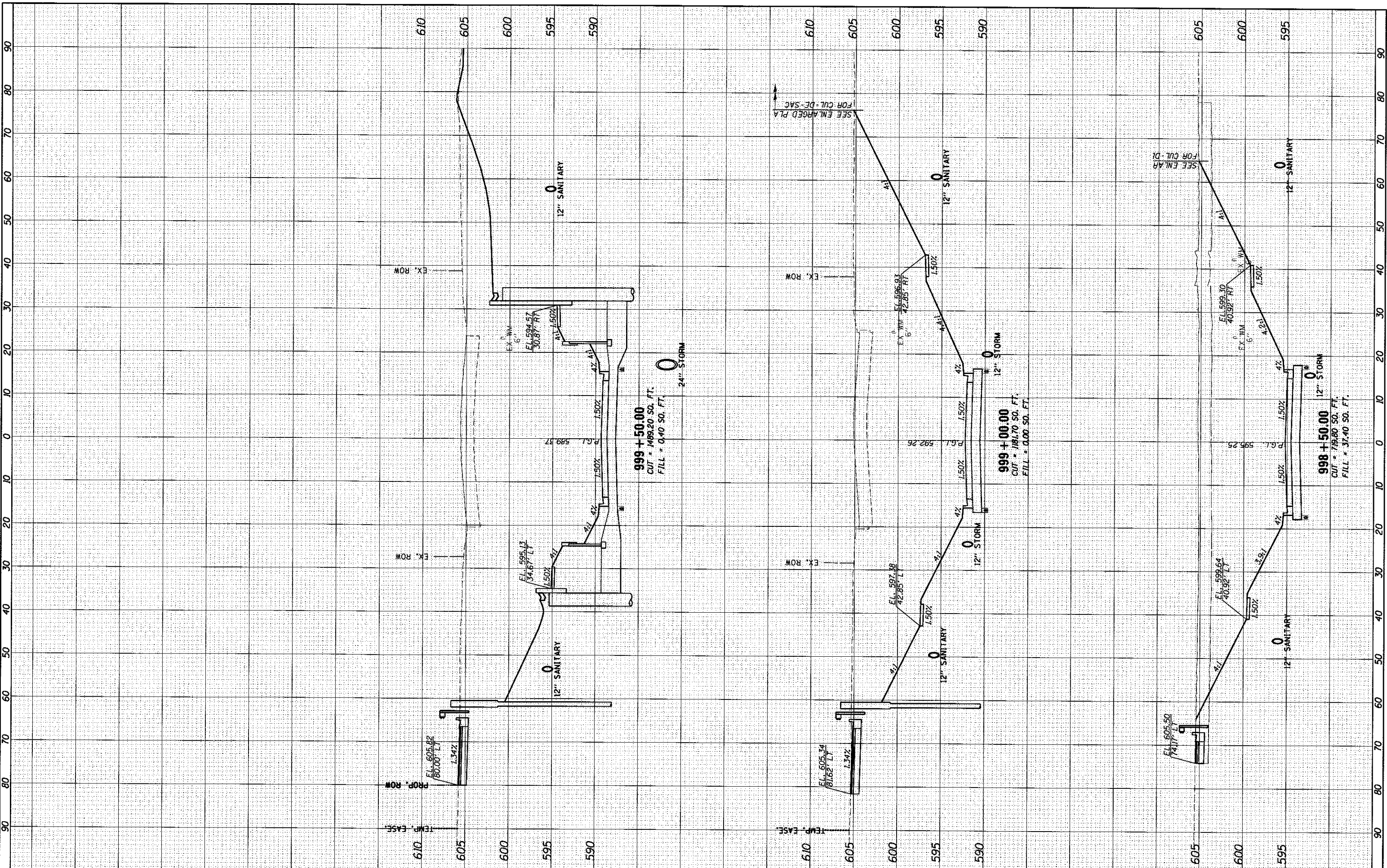
NO.	AREAS CHECKED
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NO.	AREAS CHECKED
NO.	AREAS CHECKED



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NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	7/20/2015



FILE NAME = 0689L21798-shr-xsh-t-LAU-021.dgn  
 USER NAME = pop02275

DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JWM/MNM  
 DATE - 2/24/2017

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JWM/MNM  
 DATE - 2/24/2017

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - LAUREL STREET - 3**

SCALE: SHEET 3 OF 7 SHEETS STA. 998+50.00 TO STA. 999+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	352
	09L01798	CONTRACT NO.	93704	
ILLINOIS FED. AID PROJECT				



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



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	10/11/2018
REVIEWED		

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 PLOT SCALE = 20.0000' / 1" =  
 PLOT DATE = 2/24/2017

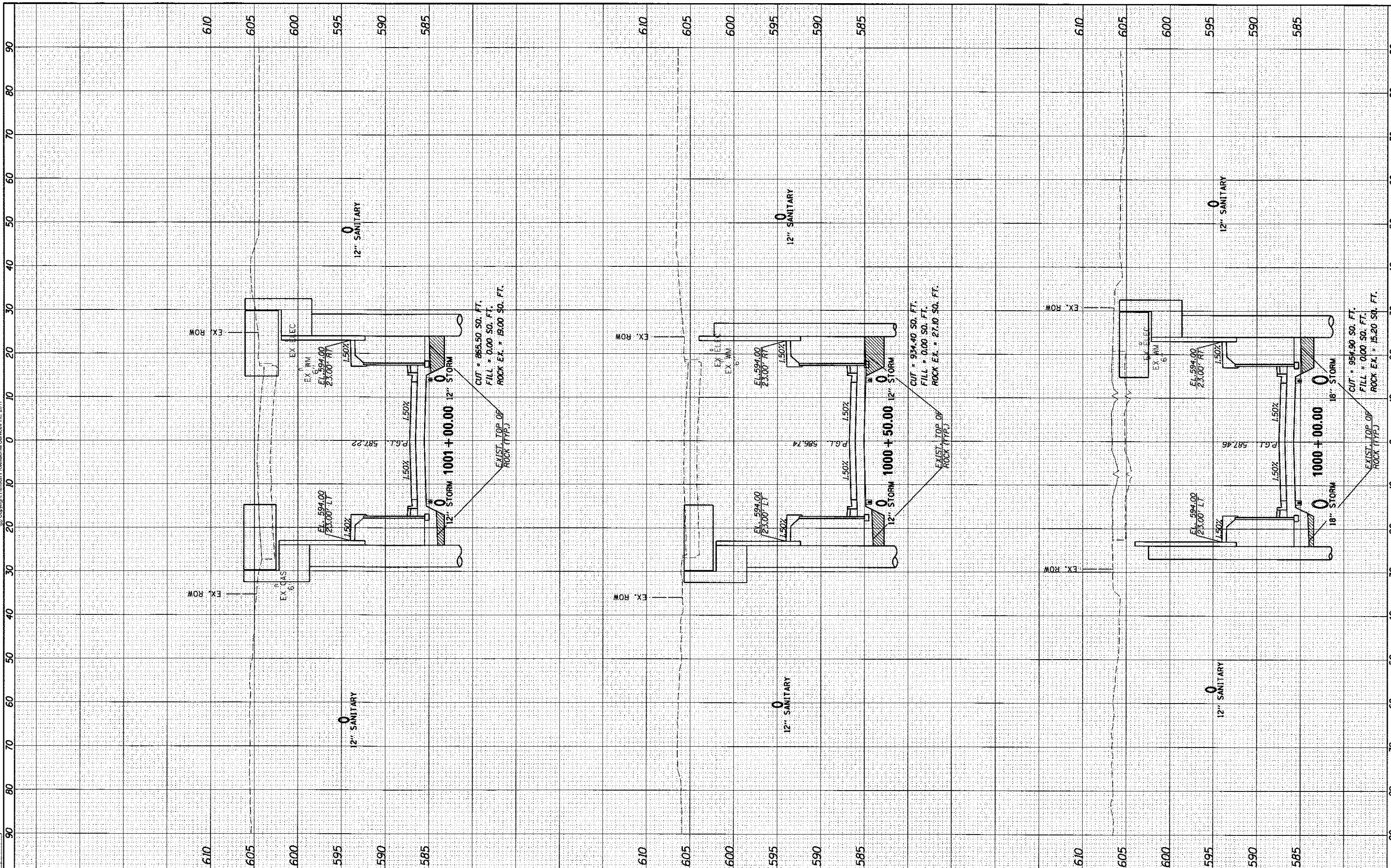
DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JWM/MNM  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - LAUREL STREET - 4**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	353
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				



SCALE: SHEET 4 OF 7 SHEETS STA. 1000+00.00 TO STA. 1001+00.00

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

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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	07/11/2016

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 PLOT SCALE = 28.0000' / in.  
 PLOT DATE = 2/24/2017

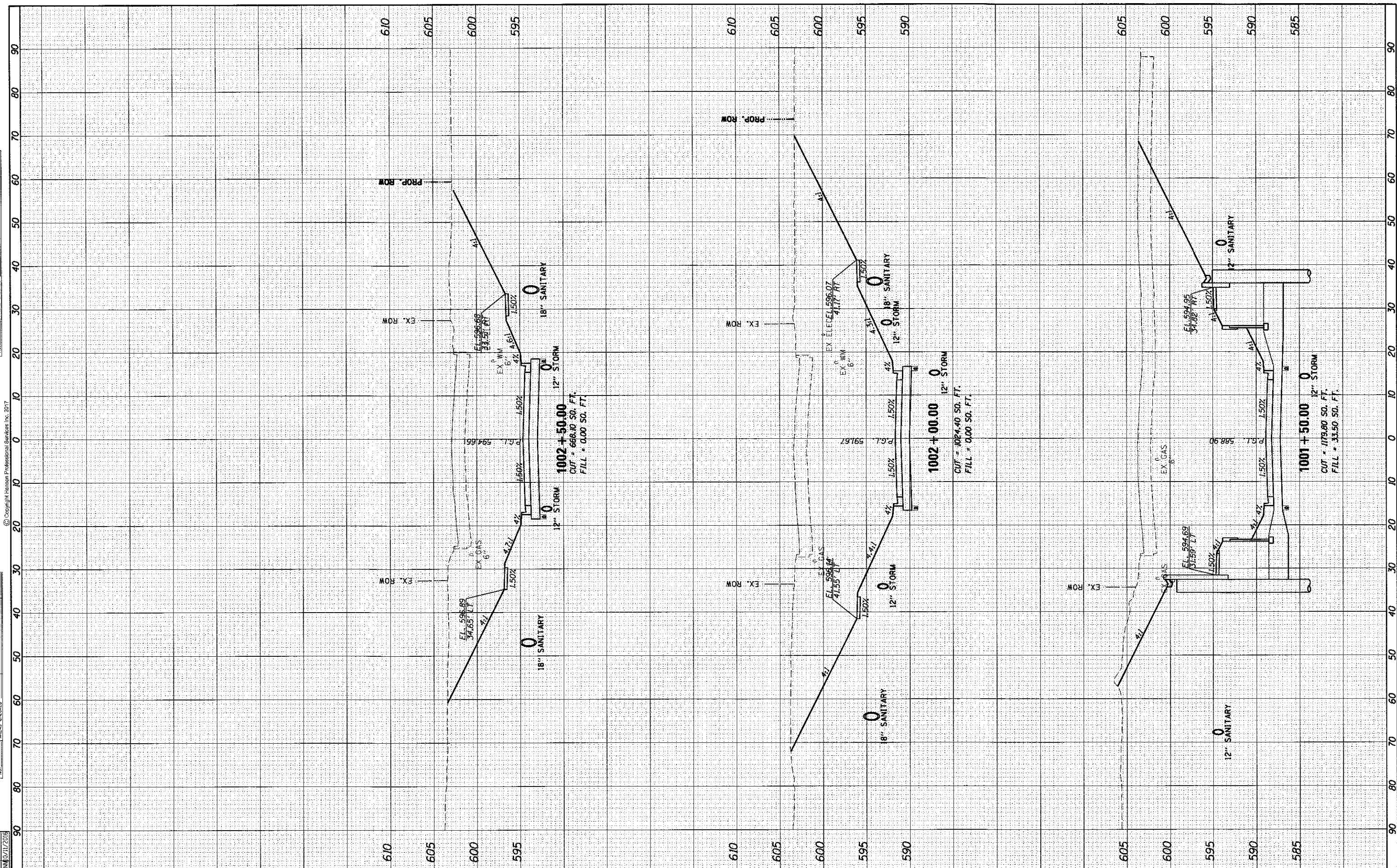
DESIGNED	-	JWM	REVISED	-
DRAWN	-	DJP	REVISED	-
CHECKED	-	JWM/MNM	REVISED	-
DATE	-		REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - LAUREL STREET - 5**

SCALE: SHEET 5 OF 7 SHEETS STA. 1001+50.00 TO STA. 1002+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	354
	09L0179B		CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				





FINAL SURVEY	DATE
SUBMITTED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SUBMITTED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

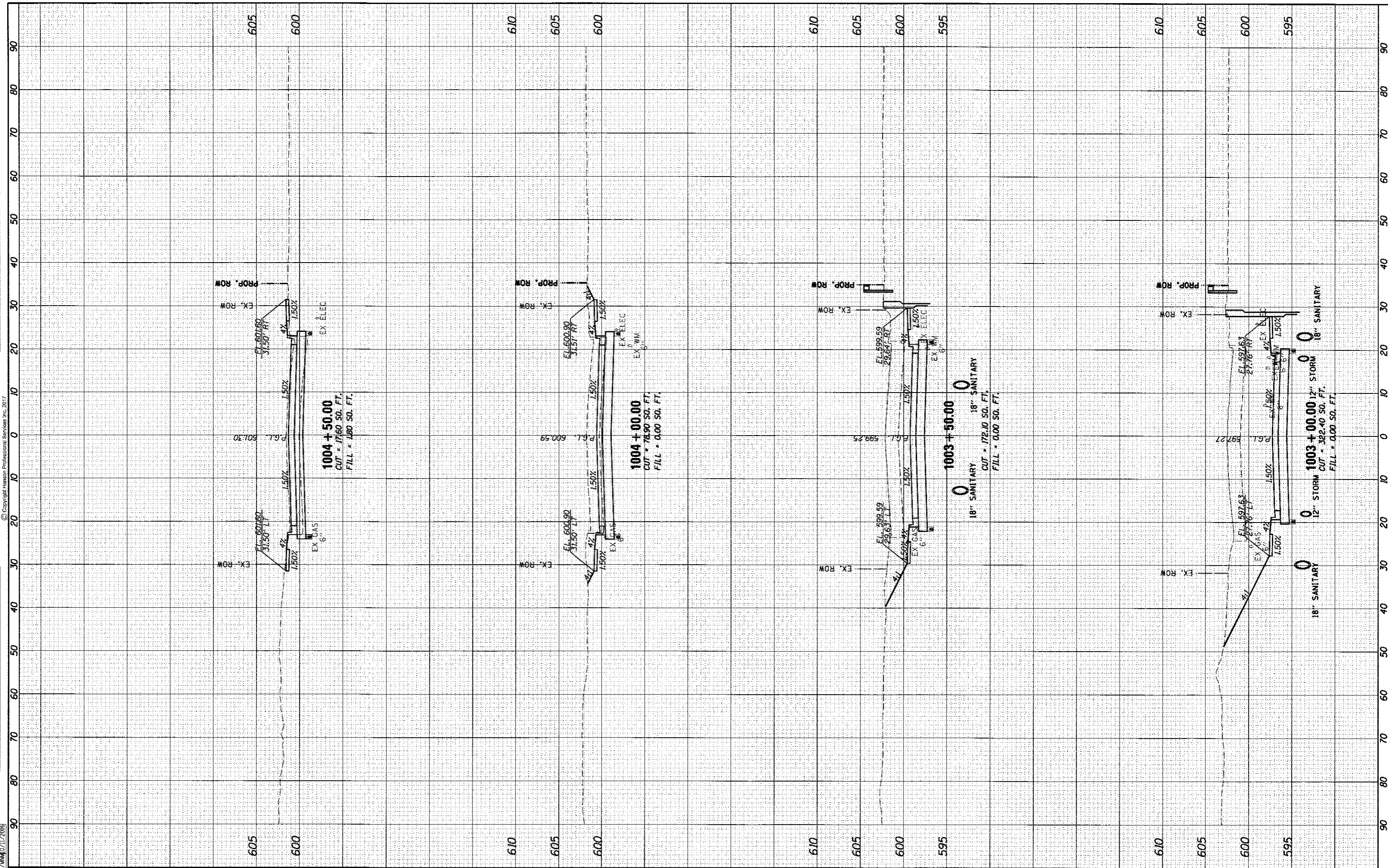
DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	8/11/2015

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 USER NAME = pop0275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	7/20/2015	REVISED	-
DRAWN	DJP	7/20/2015	REVISED	-
CHECKED	JWM/MNM		REVISED	-
DATE	-		REVISED	-



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - LAUREL STREET - 6

SCALE: SHEET 6 OF 7 SHEETS STA. 1003+00.00 TO STA. 1004+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	355
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
NOTED BOOK		
PLATE		
AREAS CHECKED		

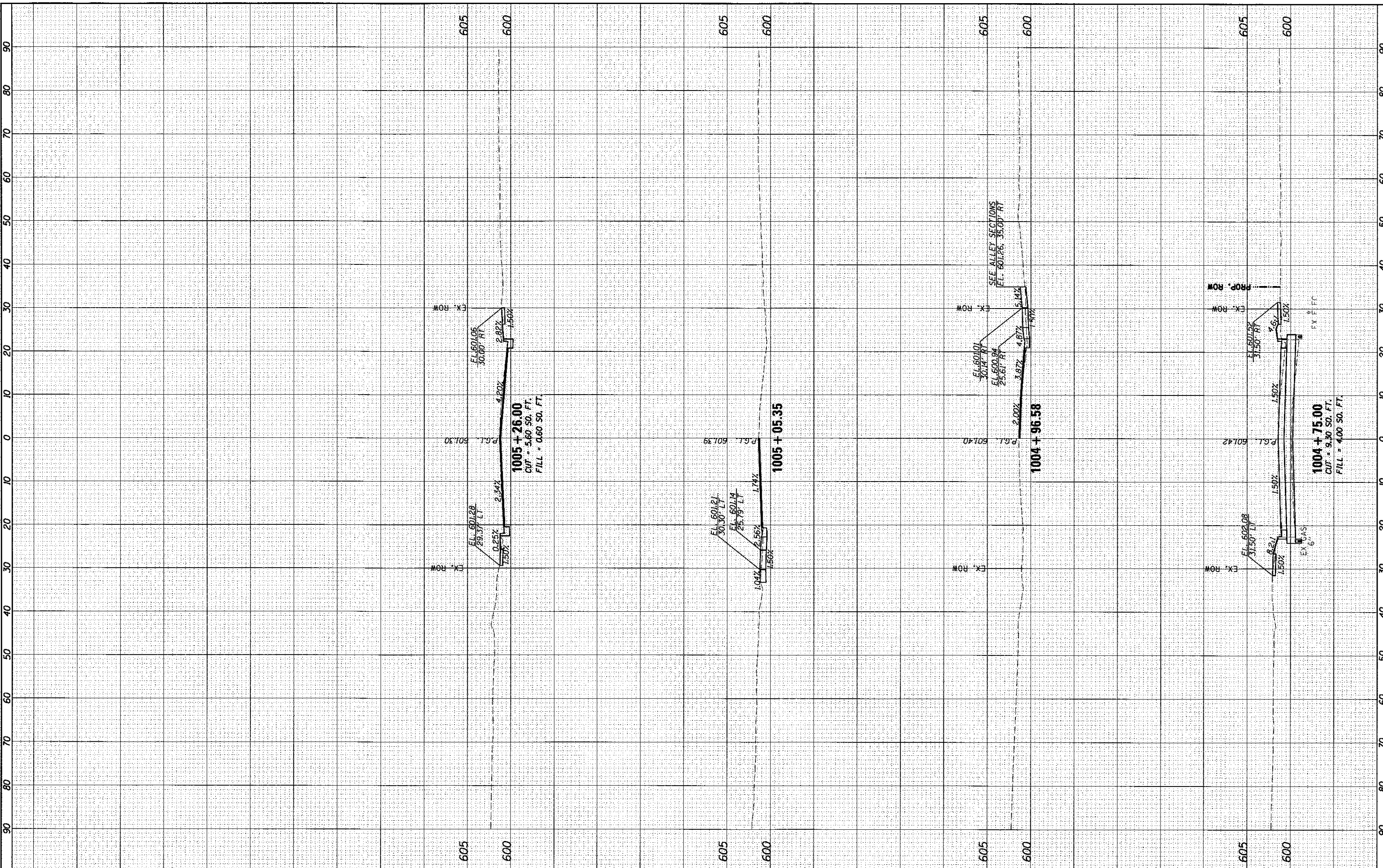
ORIGINAL SURVEY	BY	DATE
NOTED BOOK		
PLATE		
AREAS CHECKED		

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
CHECKED	JWM/MNM	1/20/2015
REVIEWED	JWM	1/20/2015

FILE NAME = 0609L0179B-shft-xshft-LAU-001.dgn  
 USER NAME = pop02275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - LAUREL STREET - 7**  
 SCALE: SHEET 7 OF 7 SHEETS STA. 1004+75.00 TO STA. 1005+26.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	356
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT



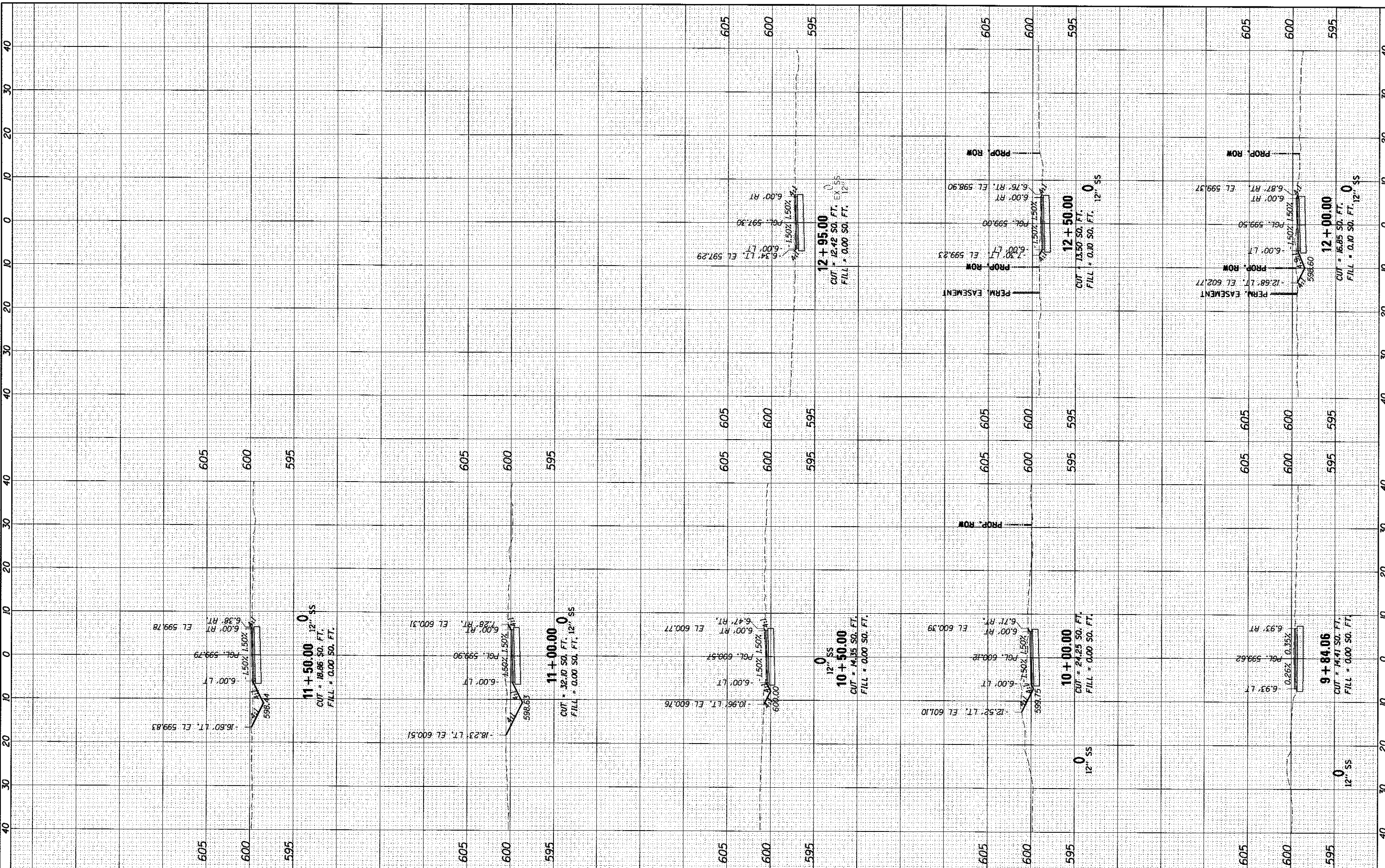
FINAL SURVEY	NO.
DESIGNED	BY
PLOTTED	DATE
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	NO.
DESIGNED	BY
PLOTTED	DATE
TEMPLATE	
AREAS CHECKED	

DESIGNED	JWM	1/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	07/17/2016



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FILE NAME = D:\09L01798-shr-ssht-ASHLALLEY-001.dgn  
 USER NAME = pop00279  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
DATE	

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - ALLEY EXT. TO 10TH ST.**

SCALE: SHEET 1 OF 1 SHEETS STA. 9+84.06 TO STA. 12+95.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	357
	09L01798	CONTRACT NO.	93704	
ILLINOIS FED. AID PROJECT				

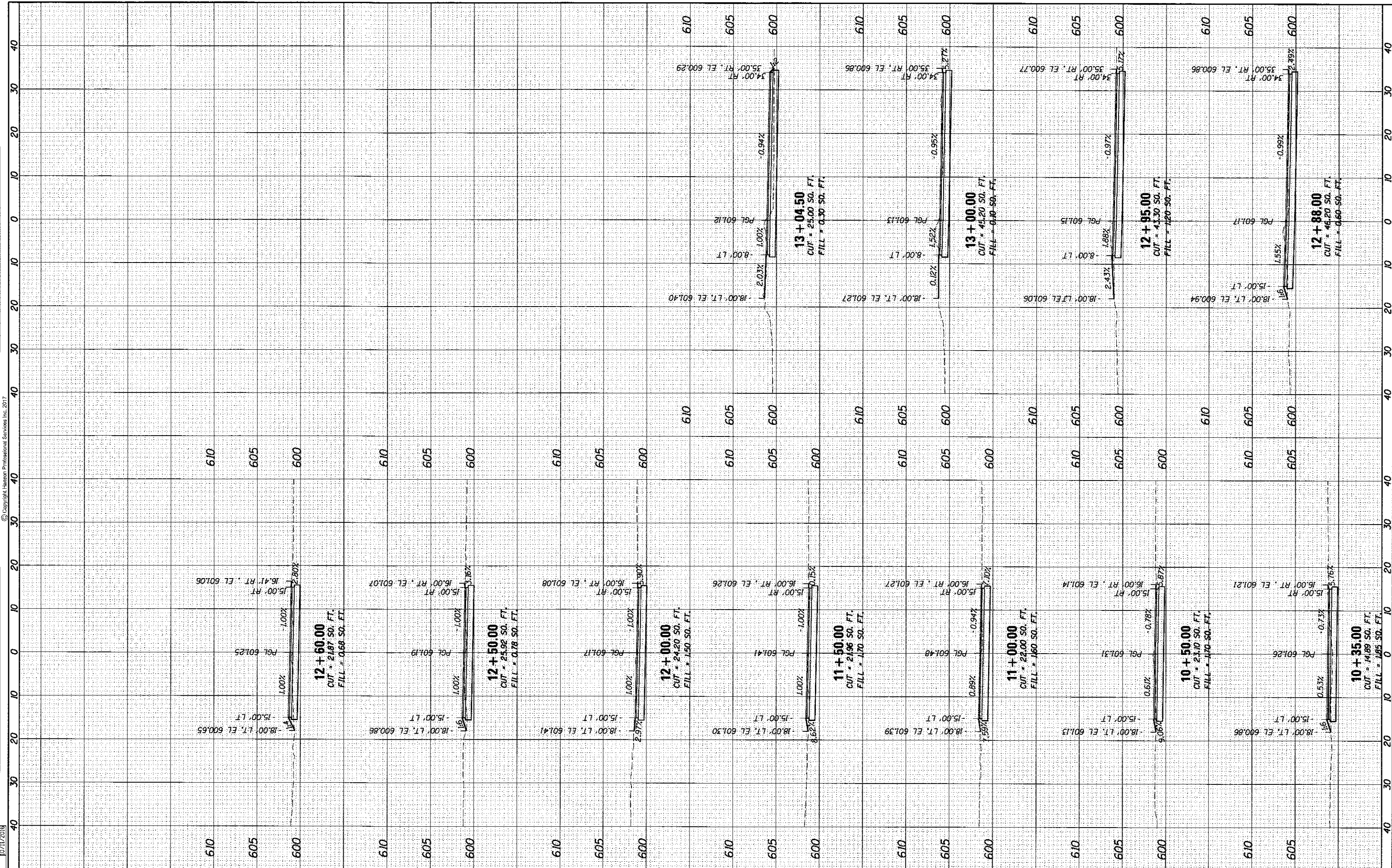
FINAL SURVEY	BY	DATE
SURVEYED		
TEMP. DATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
TEMP. DATE		
AREAS CHECKED		
NO.		

DESIGNED	10/11/2016
DRAWN	
CHECKED	
REVIEWED	



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FILE NAME = D609L0179B-shr-xssht-LAVALLEY-001.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

<b>STATE OF ILLINOIS</b>	
<b>DEPARTMENT OF TRANSPORTATION</b>	

<b>SPRINGFIELD RAIL IMPROVEMENTS PROJECT</b>	
<b>SPRINGFIELD, SANGAMON COUNTY, ILLINOIS</b>	
<b>CROSS SECTIONS - ALLEY WIDENING</b>	
SCALE:	SHEET 1 OF 1 SHEETS STA. 10+35.00 TO STA. 13+04.50

FLAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	358
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

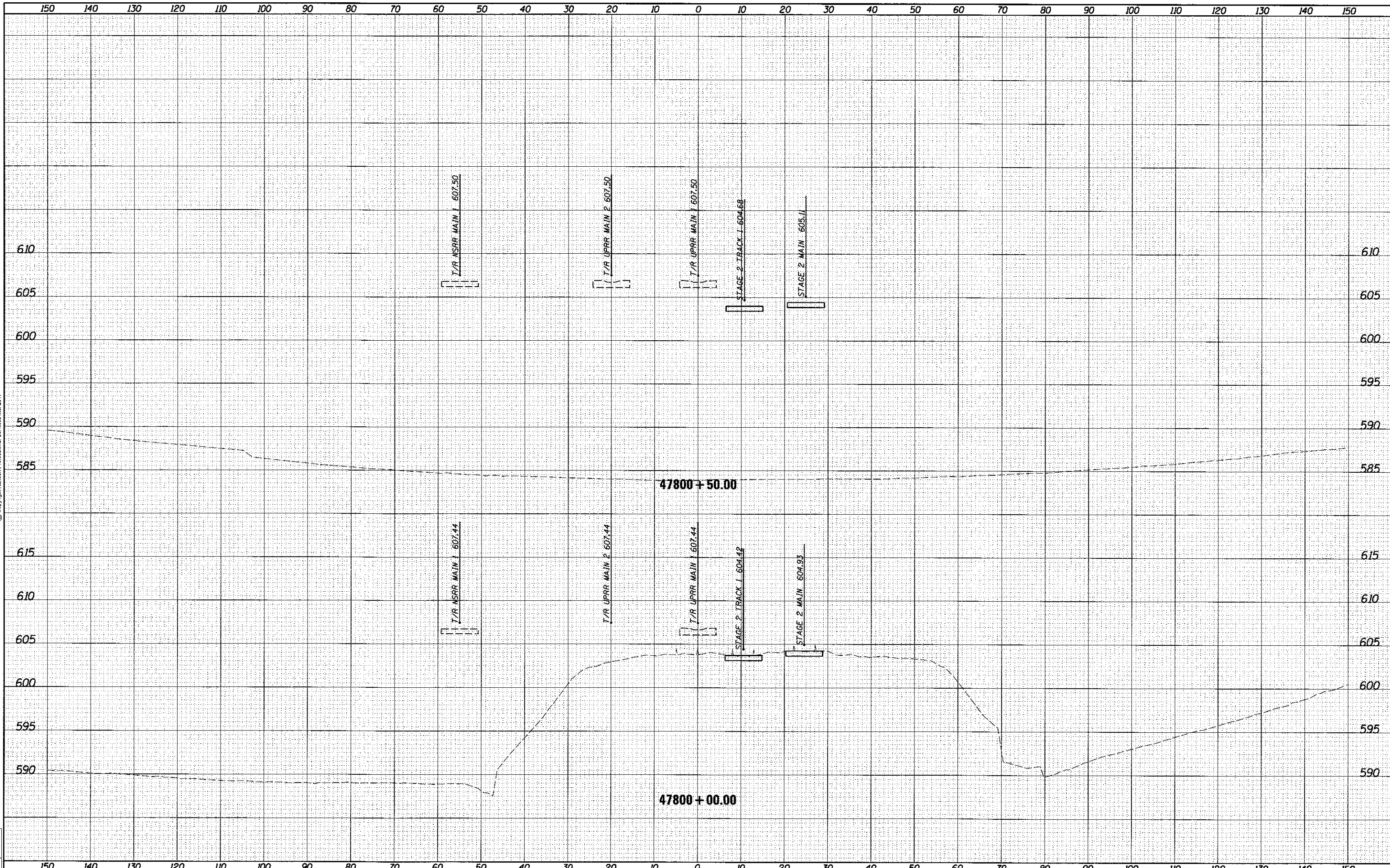


FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	
TEMPLATE	
AREAS CHECKED	



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



DESIGNED	JWM	7/10/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MMM	11/11/2015
REVIEWED	JWM/MMM	11/11/2015

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USER NAME = pap00275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017

DESIGNED -	JWM	REVISED -	
DRAWN -	DJP	REVISED -	
CHECKED -	JWM/MMM	REVISED -	
DATE -		REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 1**

SCALE: SHEET 1 OF 42 SHEETS STA. 47800+00.00 TO STA. 47800+50.00

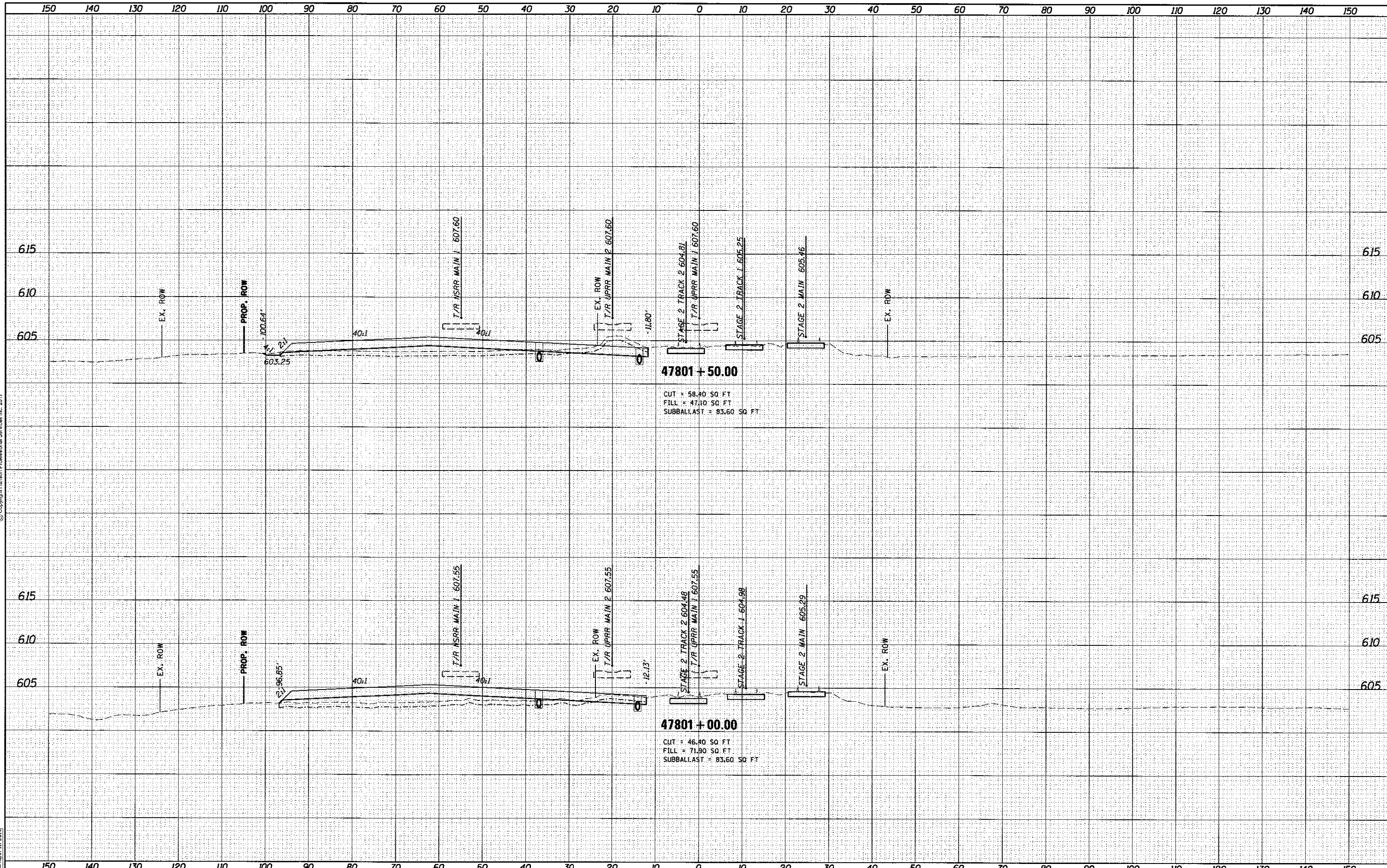
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	359
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

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



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

DATE	7/20/2015
BY	JJM
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME	0809L0179B-xso_Track-MainLine.dgn
USER NAME	pop00275
DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
DATE	2/24/2017

DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
DATE	2/24/2017

DESIGNED	JWM	REVISED	-
DRAWN	DJP	REVISED	-
CHECKED	JWM/MNM	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - USABLE SEGMENT II TRACK - 2**

SCALE: SHEET 2 OF 42 SHEETS | STA. 47801+00.00 TO STA. 47801+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	360
	09L0179B			CONTRACT NO. 93704

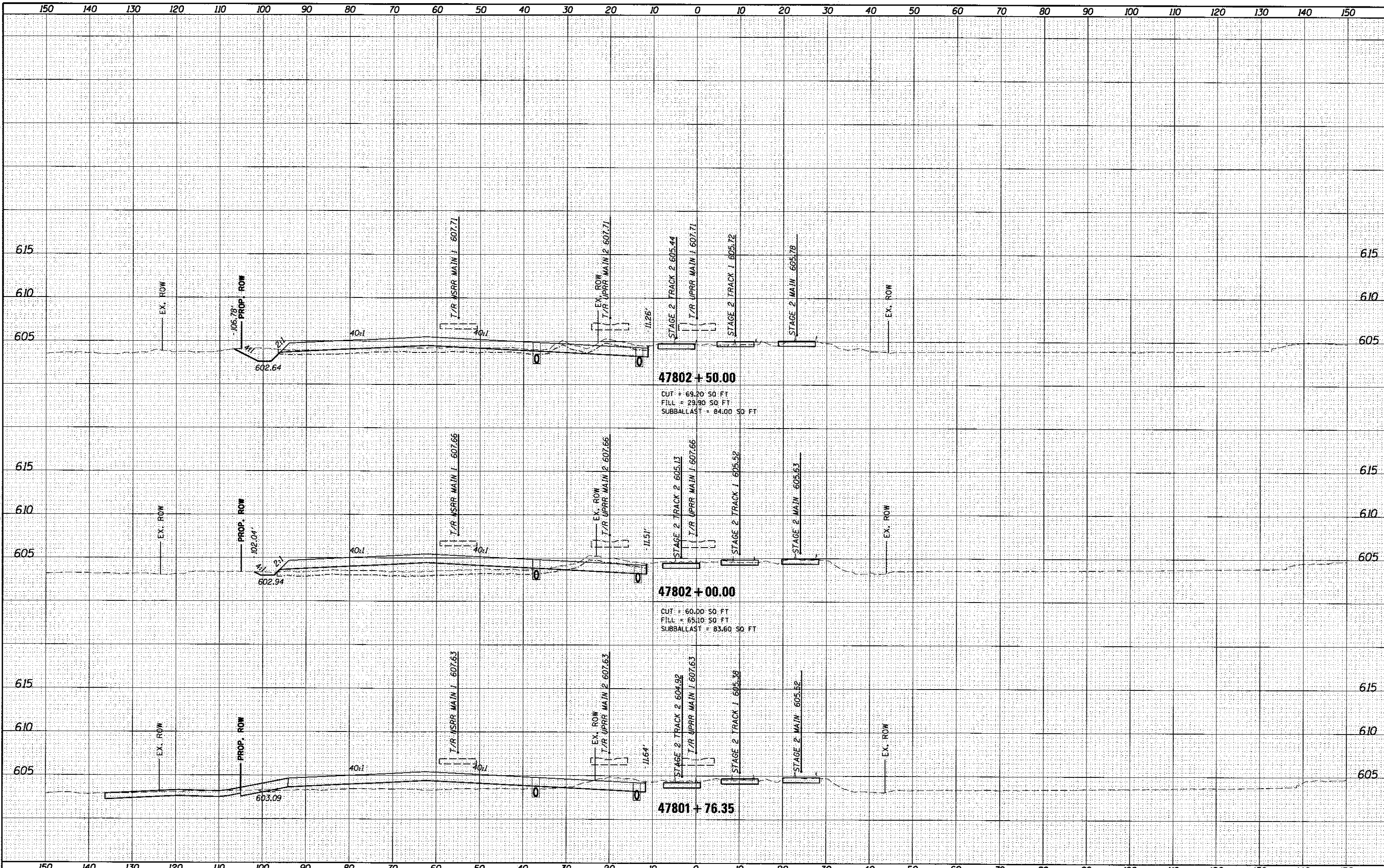


FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	8/11/2015



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 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVISD	-
DRAWN	DJP	REVISD	-
CHECKED	JWM/MNM	REVISD	-
DATE	-	REVISD	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 3**

SCALE: SHEET 3 OF 42 SHEETS STA. 47801+76.35 TO STA. 47802+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	361
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT

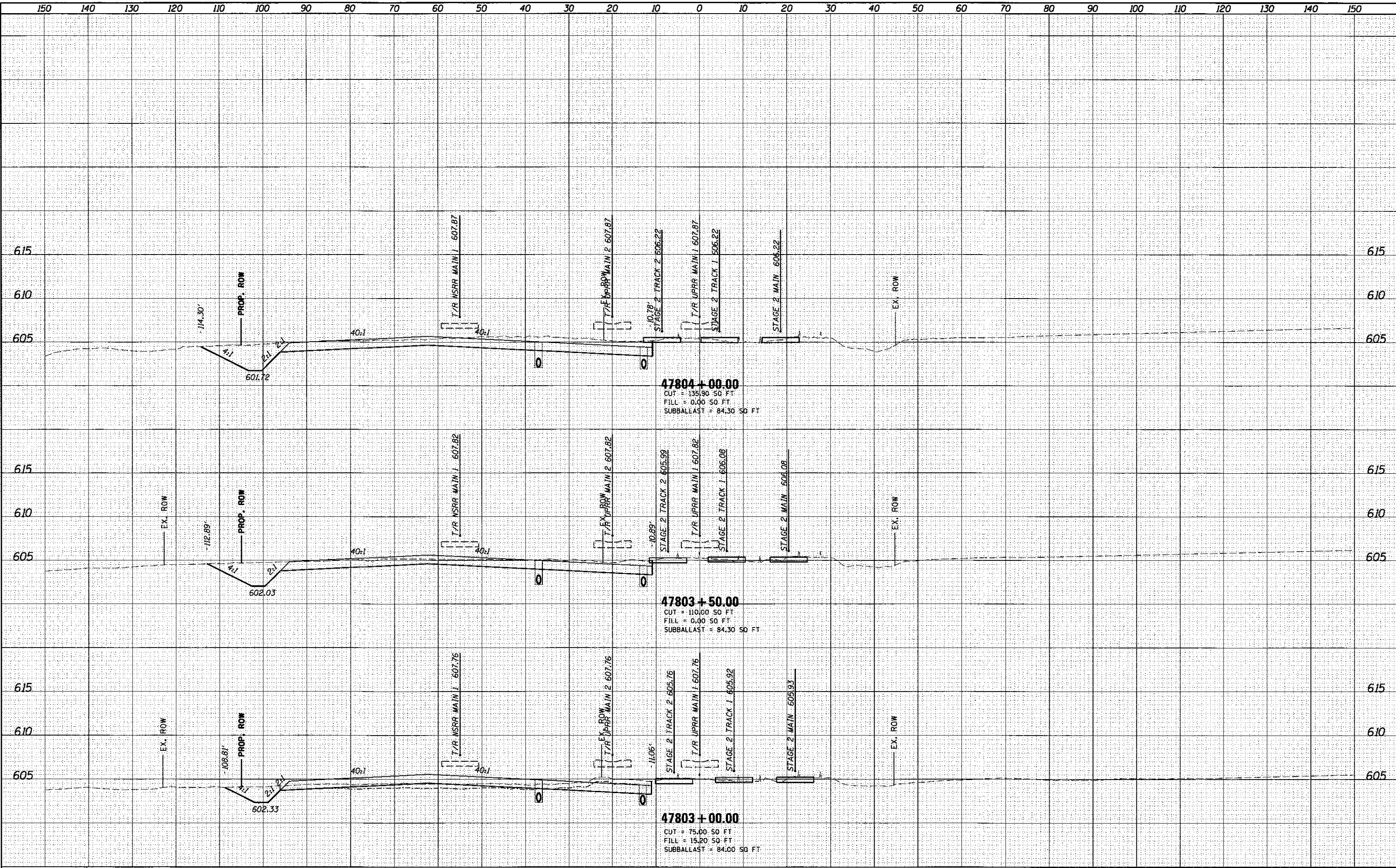
FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMP. DATE	
AREAS CHECKED	
NO.	



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

DESIGNED	JJM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JJM/MNM	07/17/2016



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 PLOT DATE = 2/24/2017

DESIGNED - JJM  
 DRAWN - DJP  
 CHECKED - JJM/MNM  
 DATE -

REVISIONS  
 REVISION -  
 REVISION -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 4

SCALE: SHEET 4 OF 42 SHEETS STA. 47803+00.00 TO STA. 47804+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	362
	09L0179B		CONTRACT NO. 93704	
ILLINOIS FED. AID PROJECT				



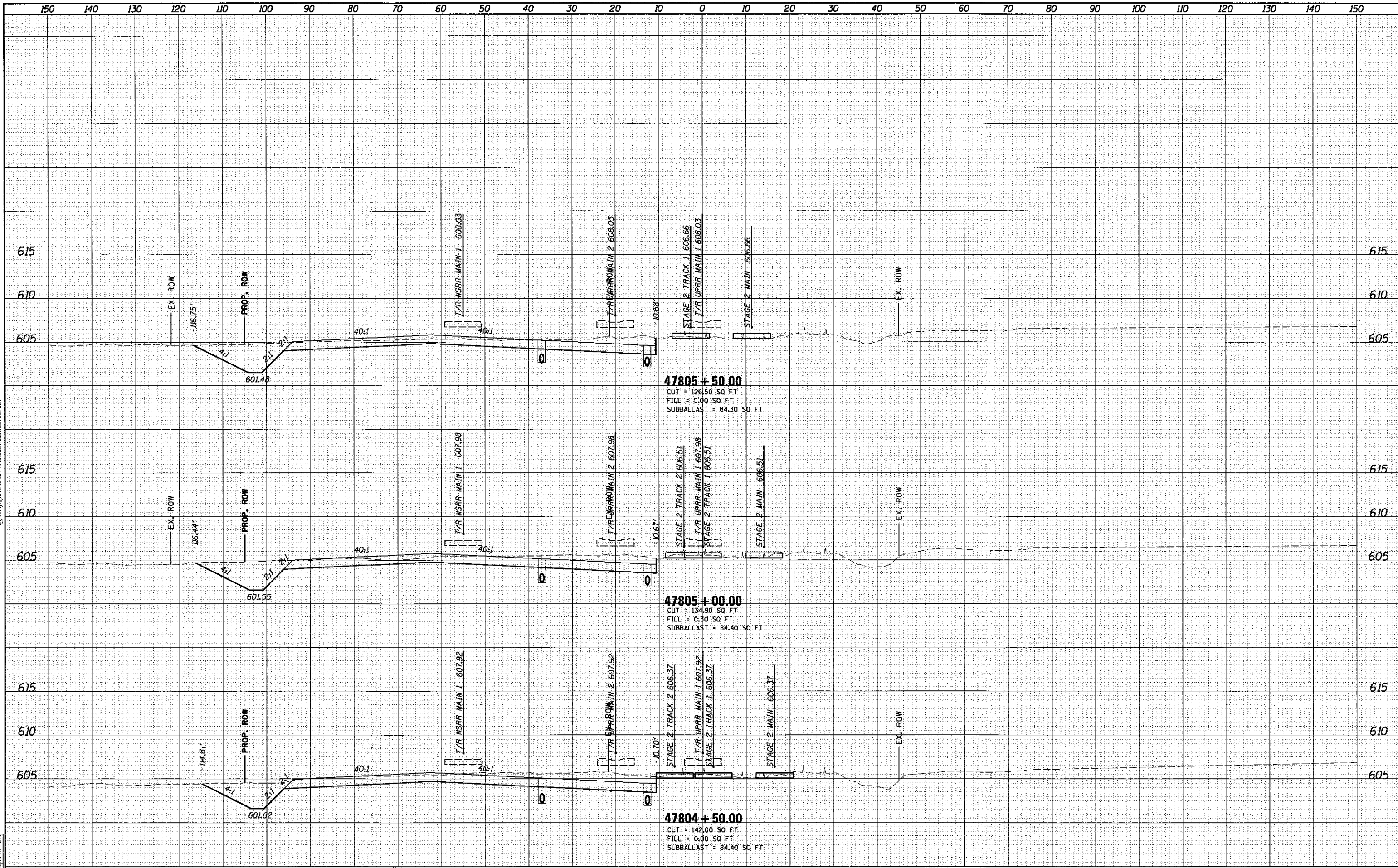
FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

DESIGNED	JMM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JMM/MNM	07/17/2016



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 PLOT DATE = 2/24/2017

DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JMM/MNM  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 5**

SCALE: SHEET 5 OF 42 SHEETS STA. 47804+50.00 TO STA. 47805+50.00

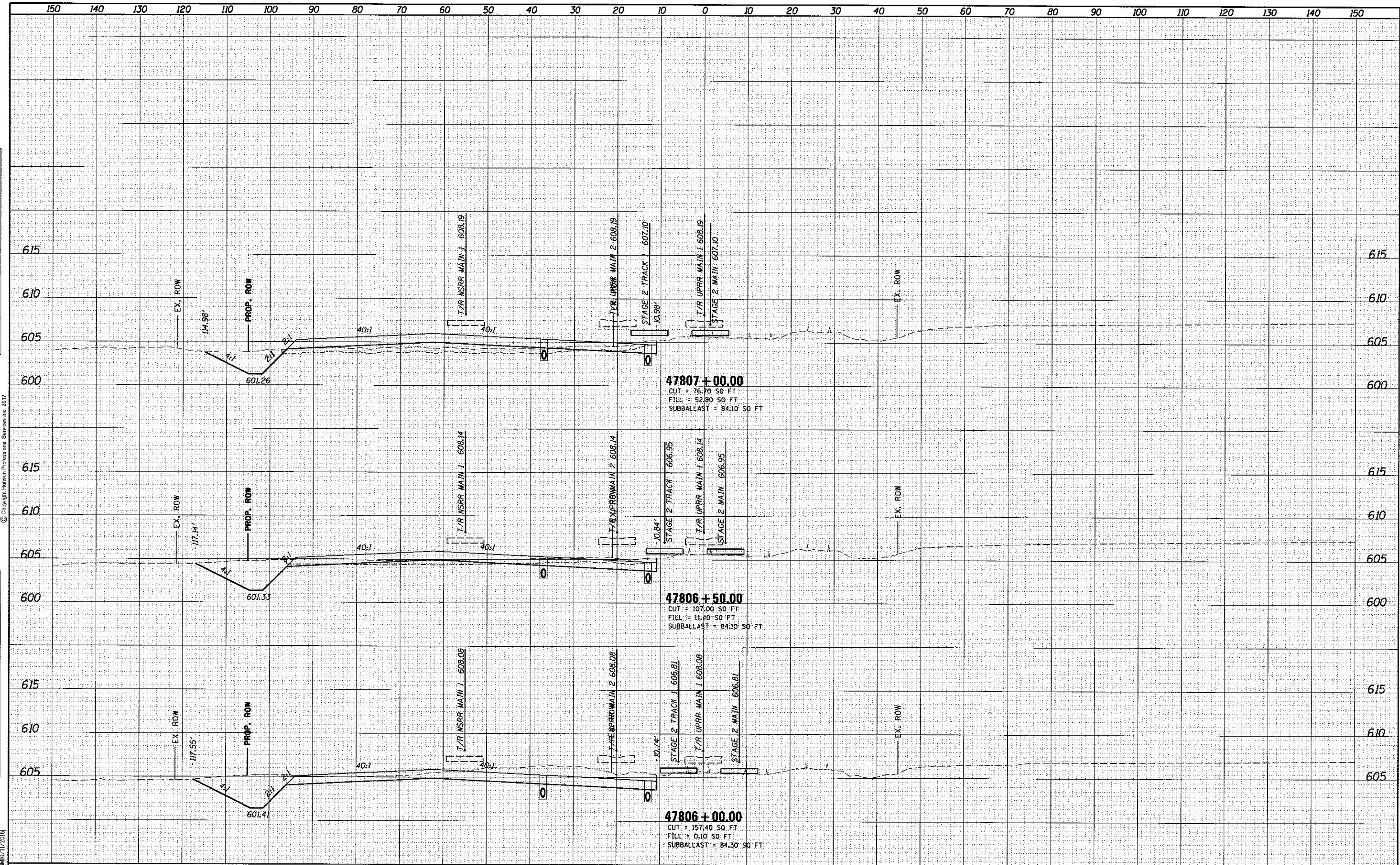
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	363
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
DESIGNED	BY
DRAWN	DATE
CHECKED	DATE
REVIEWED	DATE
NO.	



ORIGINAL SURVEY	DATE
DESIGNED	BY
DRAWN	DATE
CHECKED	DATE
REVIEWED	DATE
NO.	

DESIGNED	JMM	1/20/2015
DRAWN	DJP	1/20/2015
CHECKED	JMM/MNM	1/20/15
REVIEWED	JMM/MNM	1/20/15



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 PLOT SCALE = 20.0000' / 1" =  
 PLOT DATE = 2/24/2017

DESIGNED	JMM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JMM/MNM	REVIS	-
DATE	-	REVIS	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 6**

SCALE: SHEET 6 OF 42 SHEETS STA. 47806+00.00 TO STA. 47807+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	364
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT

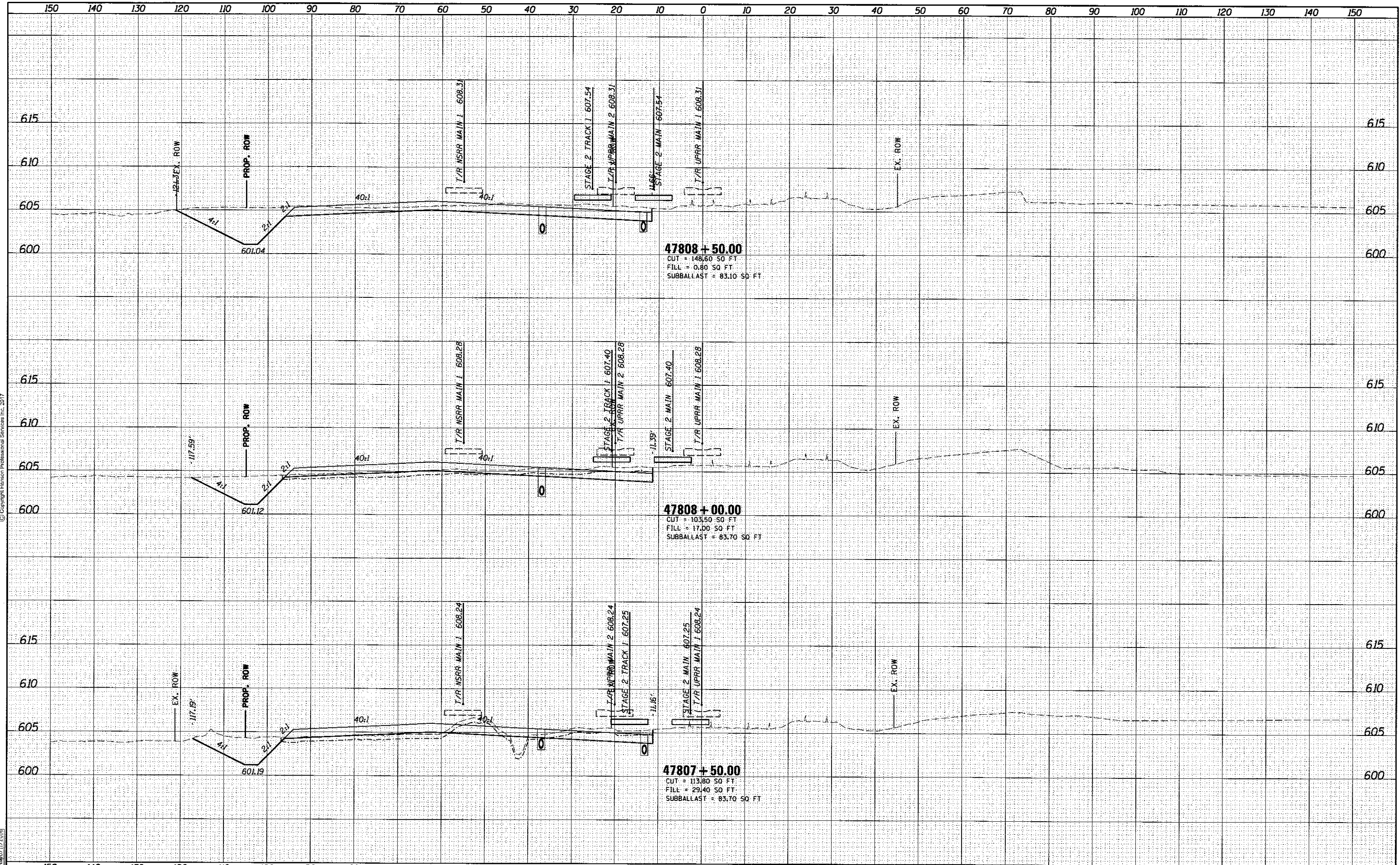


DATE	
BY	
REVIEWED	
DATE	
DESIGNED	
DATE	
DRAWN	
DATE	
CHECKED	
DATE	
APPROVED	
DATE	



DATE	
BY	
REVIEWED	
DATE	
DESIGNED	
DATE	
DRAWN	
DATE	
CHECKED	
DATE	
APPROVED	
DATE	

DATE	7/20/2015
BY	JMA
REVIEWED	
DATE	
DESIGNED	
DATE	
DRAWN	DJP
DATE	7/20/2015
CHECKED	
DATE	
APPROVED	
DATE	11/20/2016



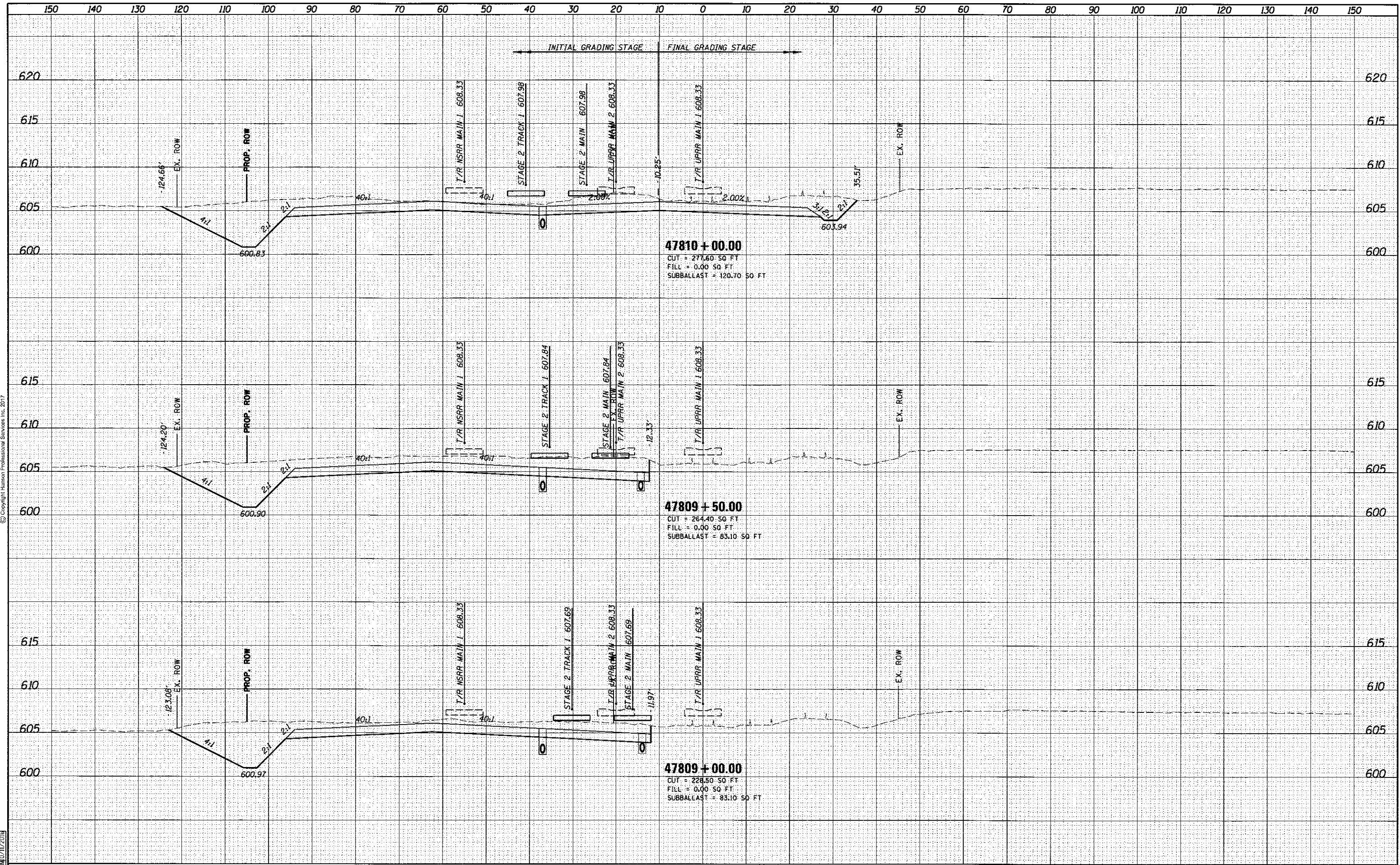
FILE NAME =	USER NAME = pop00275	DESIGNED - JWM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SPRINGFIELD RAIL IMPROVEMENTS PROJECT</b> <b>SPRINGFIELD, SANGAMON COUNTY, ILLINOIS</b> <b>CROSS SECTIONS - USABLE SEGMENT II TRACK - 7</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D689L01798-xsc.Track-Mainline.dgn	PLOT SCALE = 20.0000' / in.	DRAWN - DJP	REVISED -			14-00477-00-BR	SANGAMON	403	365	
XS_SHEET_temporary_model_name_7	CHECKED - JWM/MNM	REVIEWED -	REVISED -			09L0179B	CONTRACT NO. 93704	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/24/2017	DATE -	REVISED -			SCALE: SHEET 7 OF 42 SHEETS STA. 47807+50.00 TO STA. 47808+50.00				

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



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	8/11/2015
REVIEWED		



FILE NAME = D:\091798-xsc\_Track-Mainline.dgn  
 USER NAME = pop0275  
 PLOT SCALE = 20.0000' / 1" =  
 PLOT DATE = 2/24/2017

DESIGNED - JWM	REVISED -
DRAWN - DJP	REVISED -
CHECKED - JWM/MNM	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 8**

SCALE: SHEET 8 OF 42 SHEETS | STA. 47809+00.00 TO STA. 47810+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00417-00-BR	SANGAMON	403	366
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT



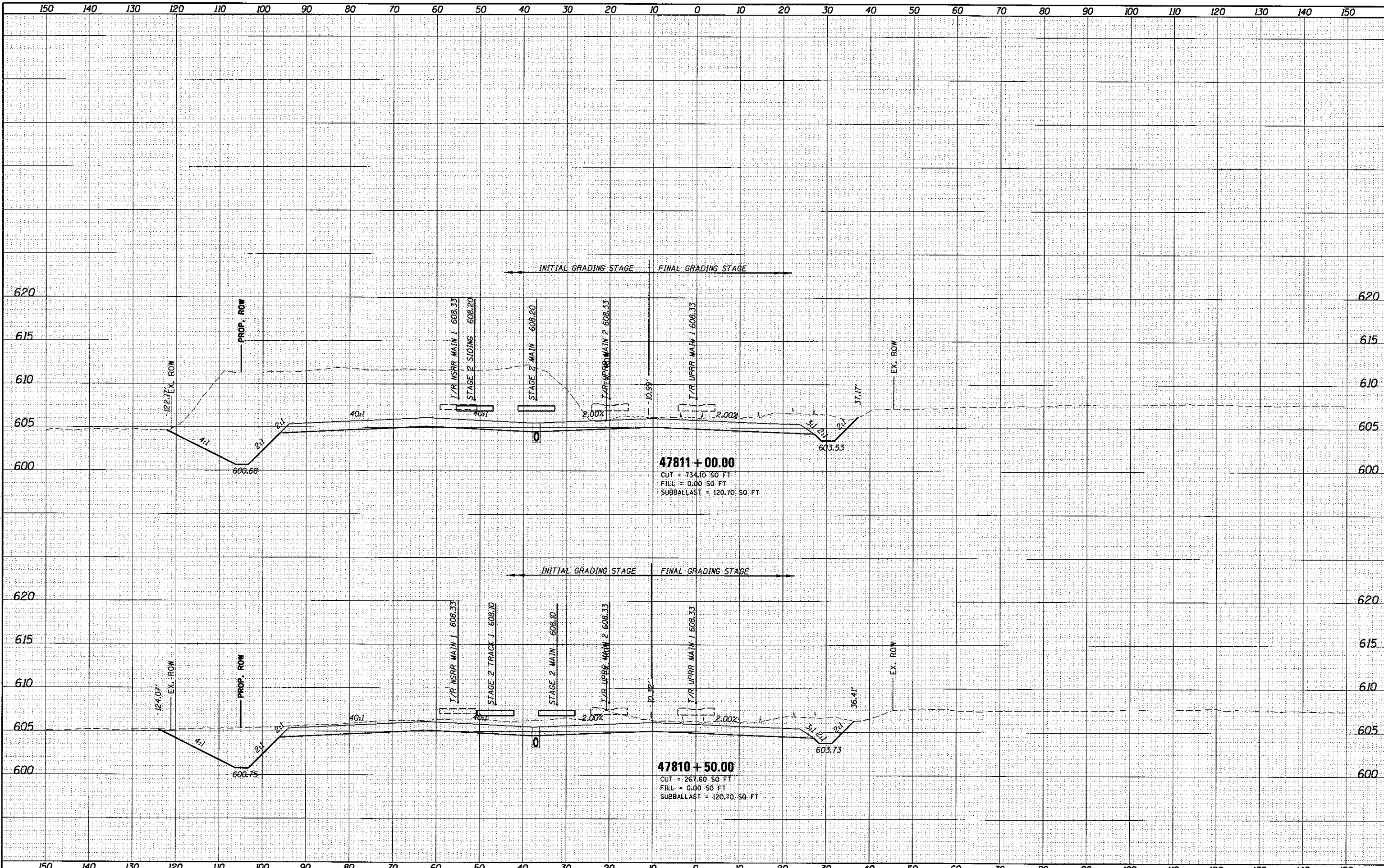
DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	



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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
REVIEWED	JWM/MNM	11/20/2015



FILE NAME = D:\09L0179B-xsc\_Track-MainLine.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1" =  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE		REVIS	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - USABLE SEGMENT II TRACK - 9

SCALE: SHEET 9 OF 42 SHEETS STA. 47810+50.00 TO STA. 47811+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	367
	09L0179B			CONTRACT NO. 93704

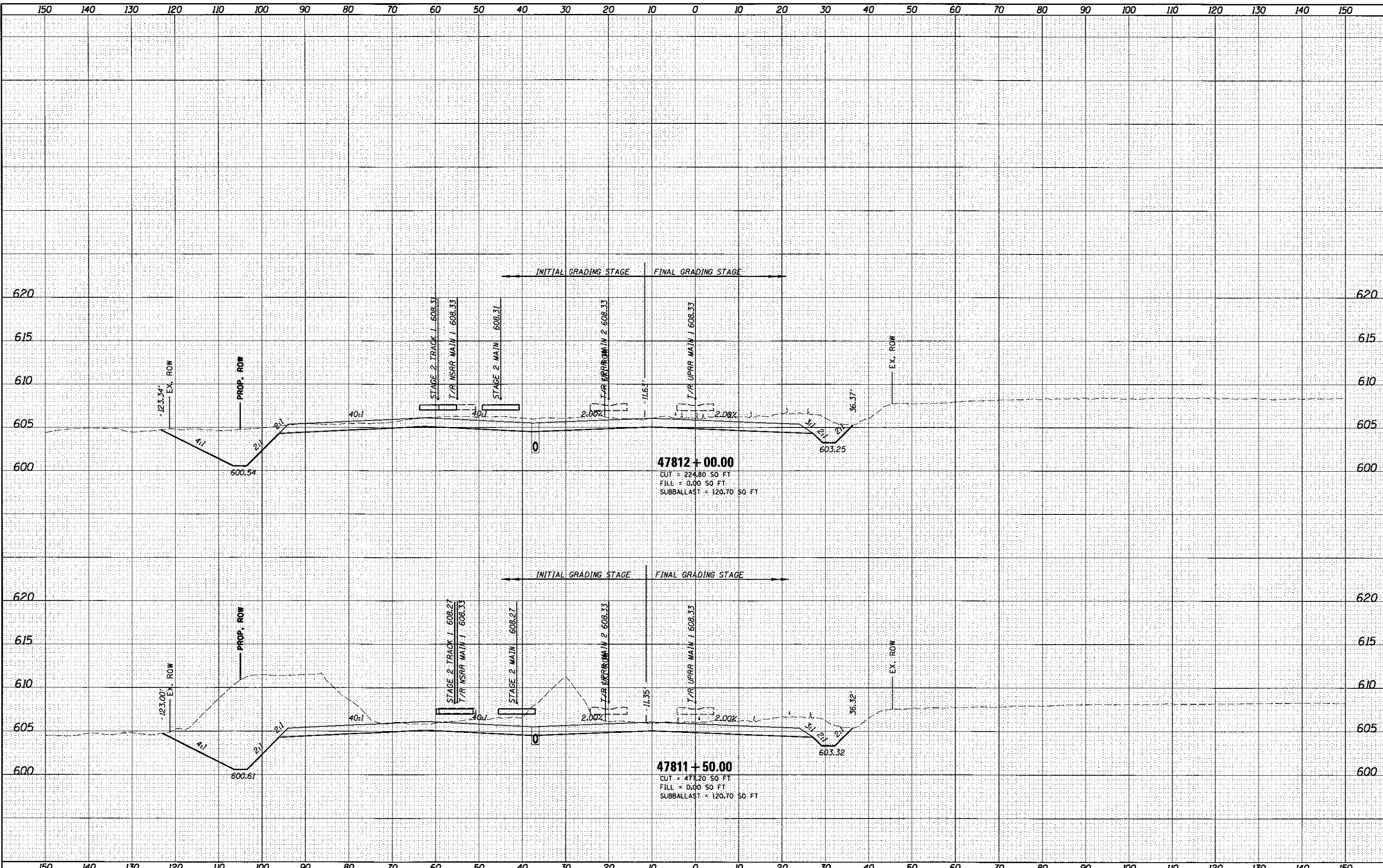
ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	



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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



DATE	7/20/2015
BY	JWM
DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
REVIEWED	JWM/MNM

FILE NAME : D689L0179B-xsc\_Track-Main1.mxd  
 USER NAME : pop0275  
 PLOT SCALE = 20.0000' / 1" in.  
 PLOT DATE = 2/24/2017

DESIGNED	- JWM	REVISED	-
DRAWN	- DJP	REVISED	-
CHECKED	- JWM/MNM	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 10

SCALE: SHEET 10 OF 42 SHEETS | STA. 47811+50.00 TO STA. 47812+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	368
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				



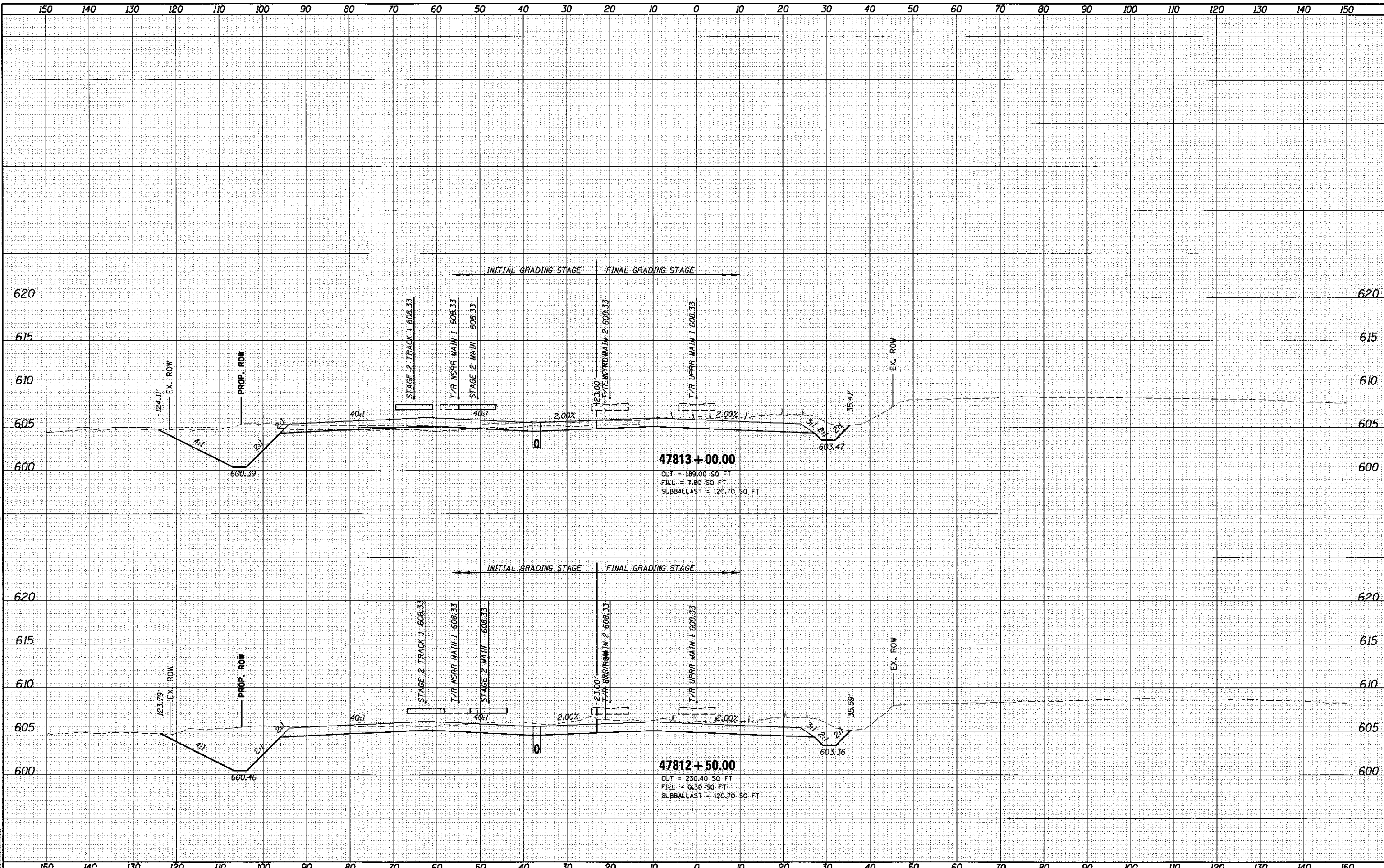
FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	
AREAS CHECKED	
AREAS CHECKED	



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

FINAL	JMM	7/20/2015
DESIGNED	DJP	7/20/2015
DRAWN	JMM/MNM	07/17/2015
REVIEWED		



FILE NAME = D:\89\01798\iso\_Track-Mainline.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED - JWM	REVISED -
DRAWN - DJP	REVISED -
CHECKED - JWM/MNM	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 11**

SCALE: SHEET 11 OF 42 SHEETS STA. 47812+50.00 TO STA. 47813+00.00

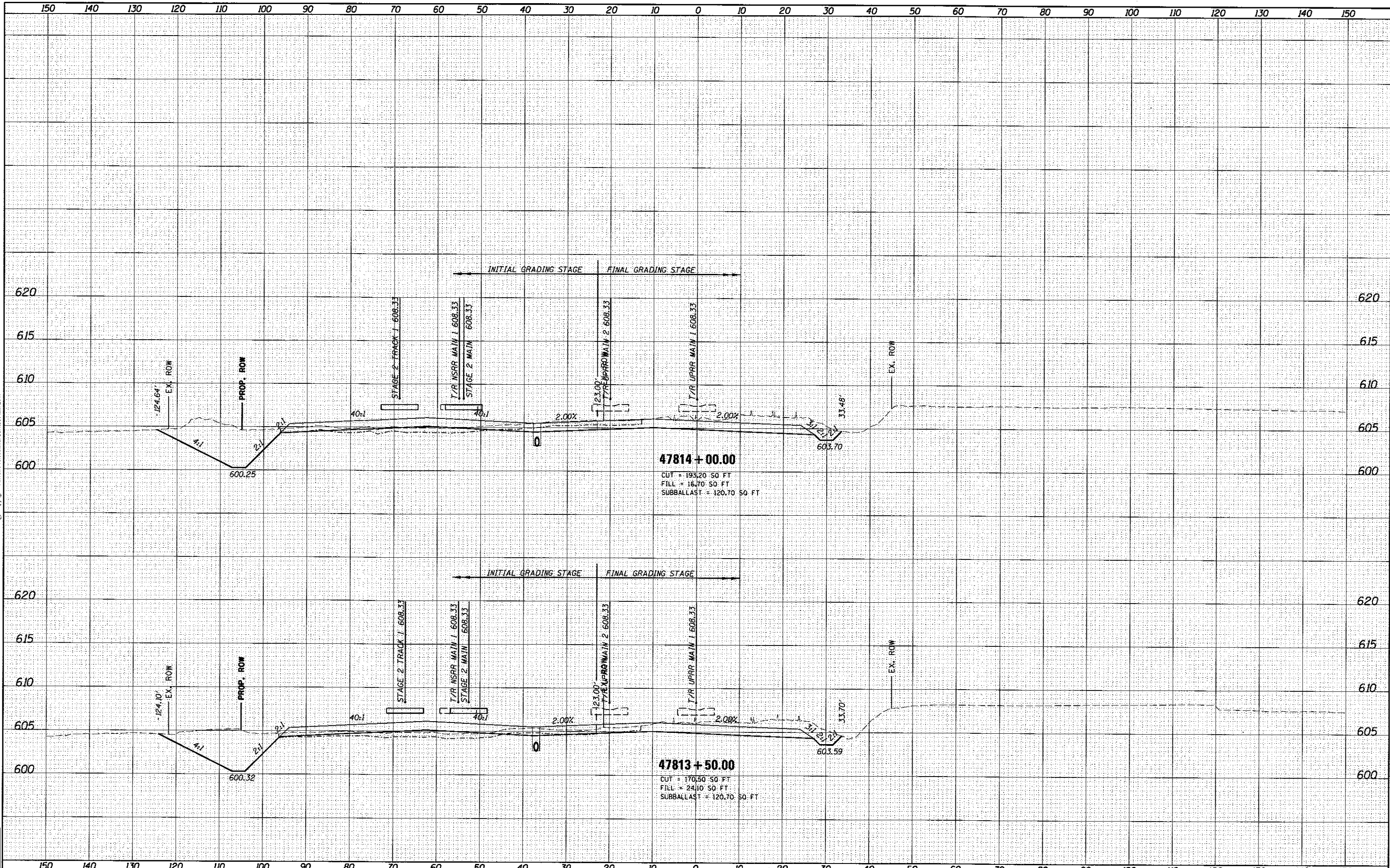
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	369
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



ORIGINAL SURVEY	DATE
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
REVIEWED	JWM/MNM	1/17/2015



FILE NAME = 0609L0179B-xec.Track-Mainline.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1" in.  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVISED	-
DRAWN	DJP	REVISED	-
CHECKED	JWM/MNM	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 12  
 SCALE: SHEET 12 OF 42 SHEETS STA. 47813+50.00 TO STA. 47814+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	370
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

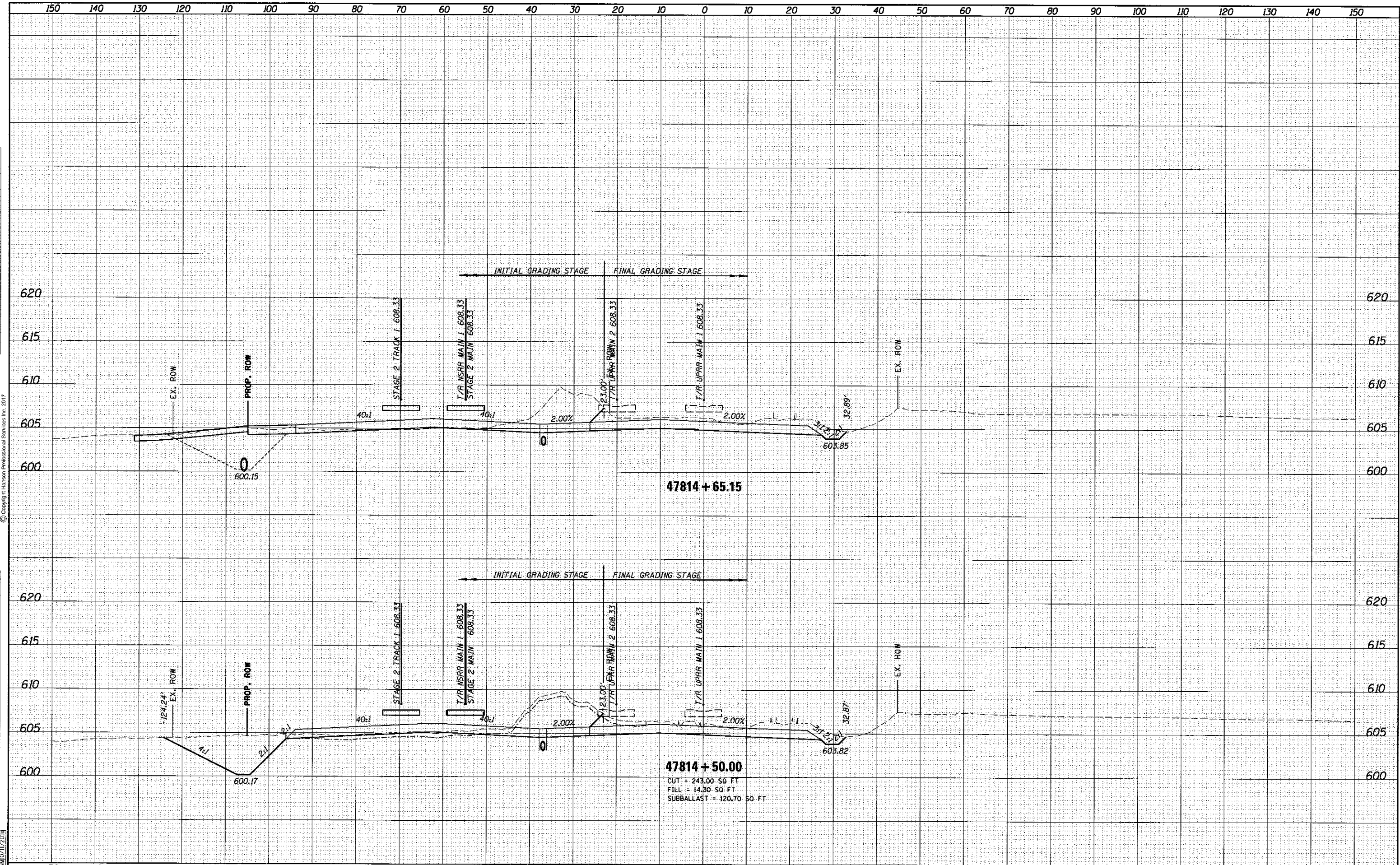


DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

DESIGNED	JWM	1/30/2015
DRAWN	DJP	1/30/2015
CHECKED	JWM/MNM	1/30/2015
REVIEWED		



FILE NAME =  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE		REVIS	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 13**

SCALE: SHEET 13 OF 42 SHEETS STA. 47814+50.00 TO STA. 47814+65.15

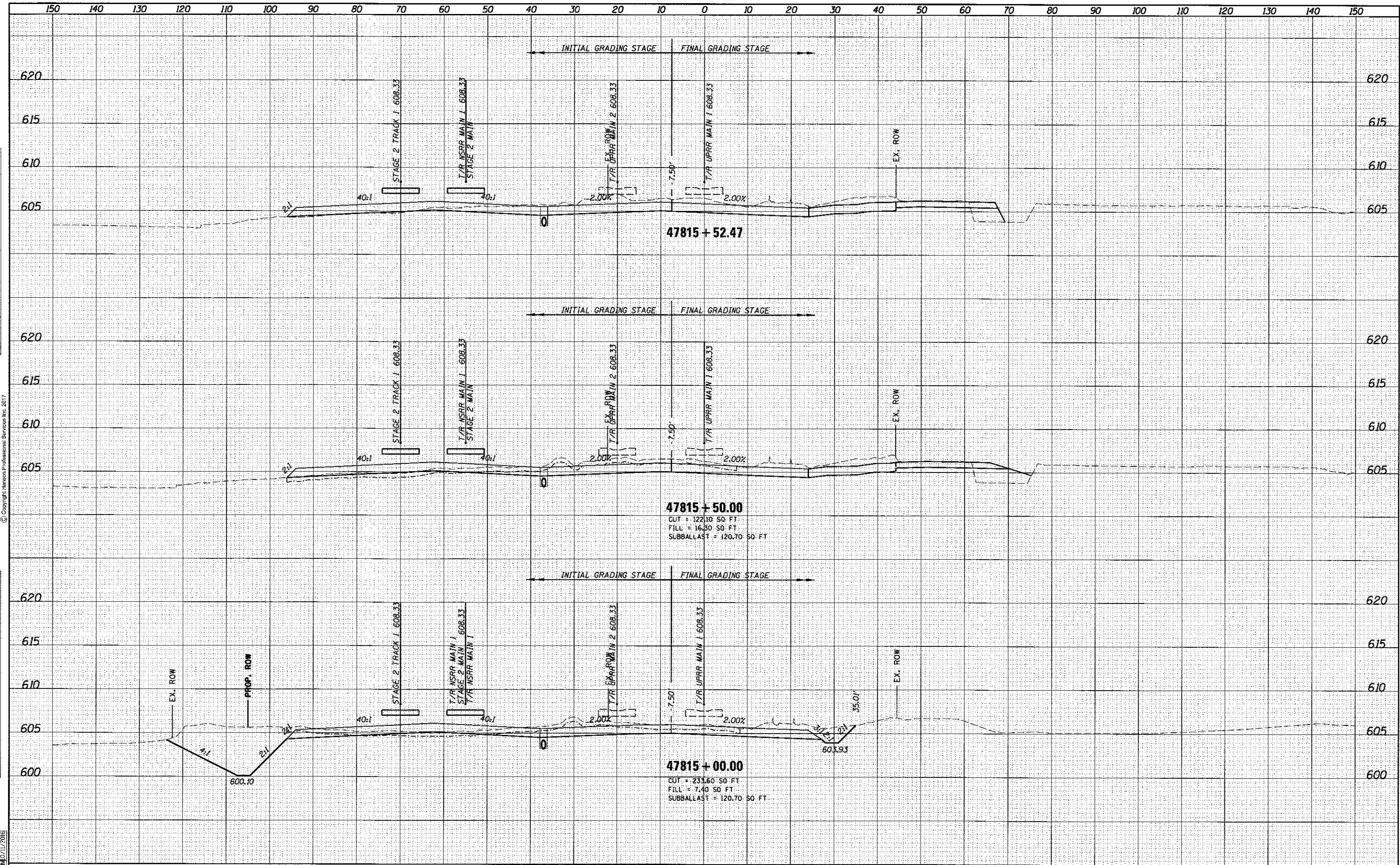
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	371
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT

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



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

DESIGNED	JWM	1/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	8/11/2015
REVIEWED		



FILE NAME: D:\14\1798-xsc\_Track-Mainline.dgn  
 USER NAME: pep0275  
 PLOT SCALE: 20.0000' / 1" =  
 PLOT DATE: 2/24/2017

DESIGNED	JWM	REVISÉ	-
DRAWN	DJP	REVISÉ	-
CHECKED	JWM/MNM	REVISÉ	-
DATE		REVISÉ	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 14**

SCALE: SHEET 14 OF 42 SHEETS STA. 47815+00.00 TO STA. 47815+52.47

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	372
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

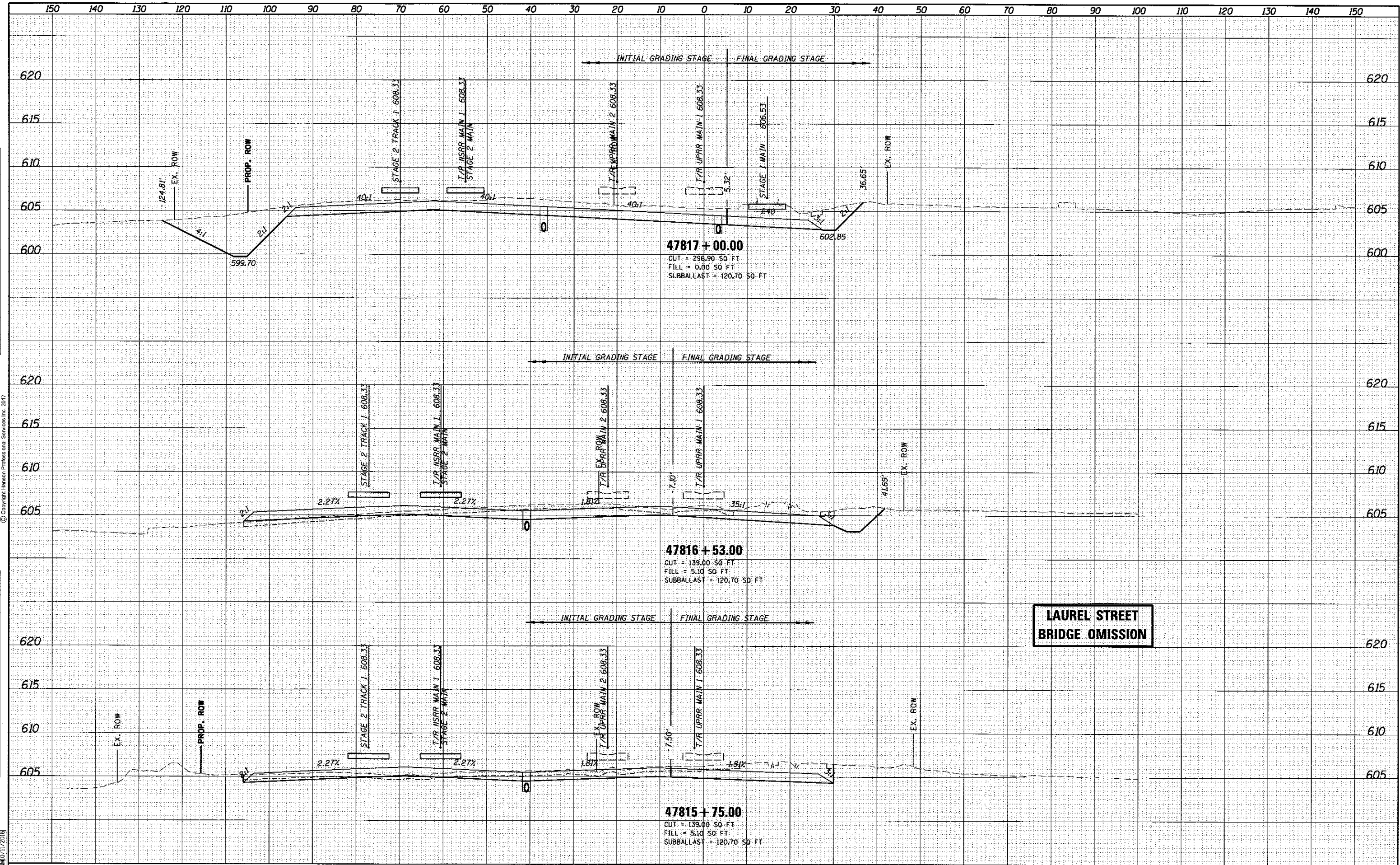


FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		



ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		

DESIGNED	JWM	1/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	11/20/15



FILE NAME: D:\P\101798-xsc-Track-Mainline.dgn  
 USER NAME: pop0275  
 PLOT SCALE: = 20.0000' / 1" =  
 PLOT DATE: = 2/24/2017

DESIGNED	JWM	1/20/2015	REVISED	-
DRAWN	DJP	7/20/2015	REVISED	-
CHECKED	JWM/MNM		REVISED	-
DATE			REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 15**

SCALE: SHEET 15 OF 42 SHEETS | STA. 47815+75.00 TO STA. 47817+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	373
	09L0179B			CONTRACT NO. 93704

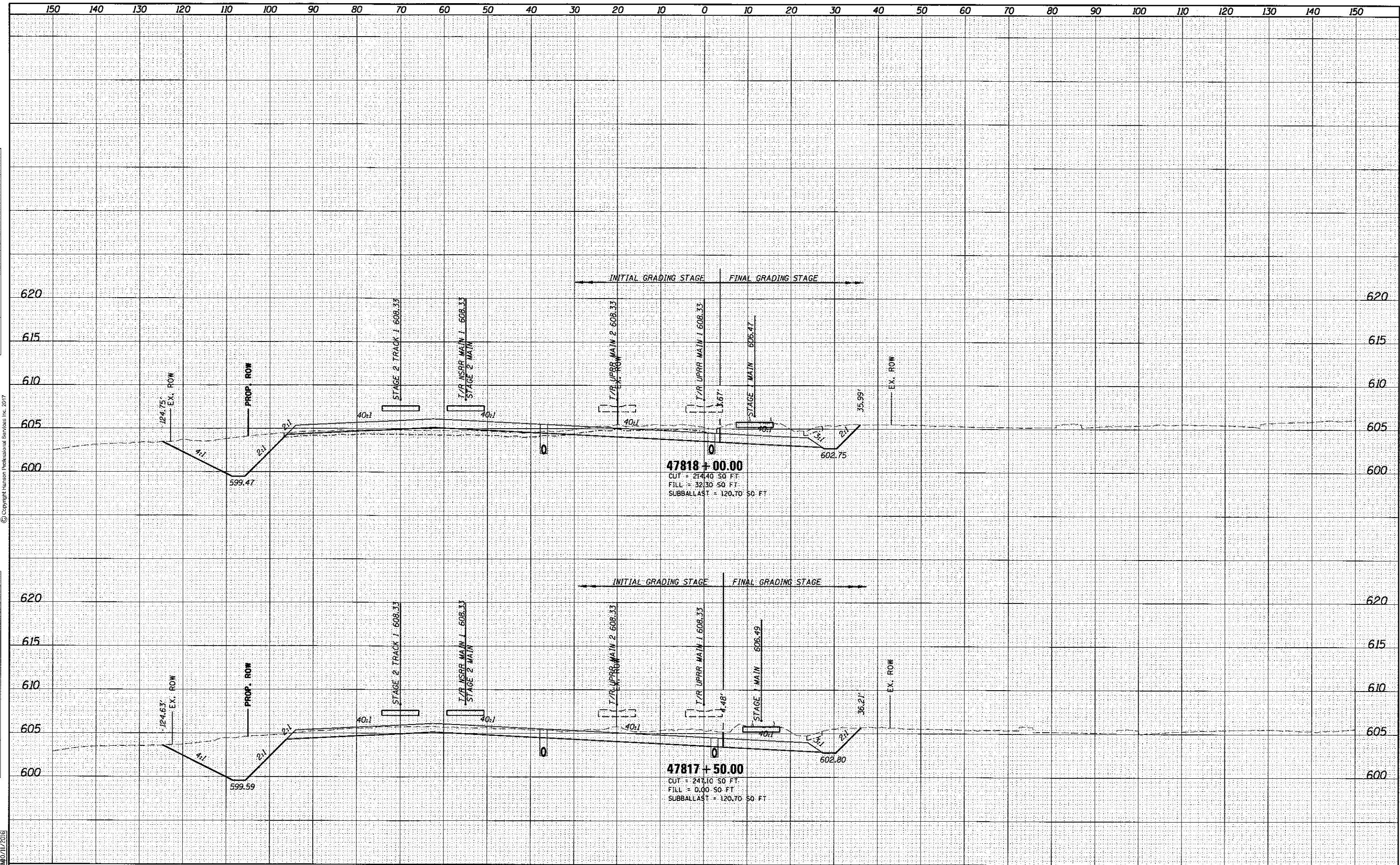
ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	7/21/2015



FILE NAME = D689L0179B-xsc.Track-MainLine.dgn  
 USER NAME = pep80275  
 PLOT SCALE = 20.0000' / 1" in.  
 PLOT DATE = 2/24/2017

DESIGNED	- JWM	REVISED	-
DRAWN	- DJP	REVISED	-
CHECKED	- JWM/MNM	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 16**

SCALE: SHEET 16 OF 42 SHEETS | STA. 47817+50.00 TO STA. 47818+00.00

SECTION	14-00477-00-BR	COUNTY	SANGAMON	TOTAL SHEETS	403	SHEET NO.	374	
CONTRACT NO.	09L0179B						CONTRACT NO.	93704
ILLINOIS FED. AID PROJECT								

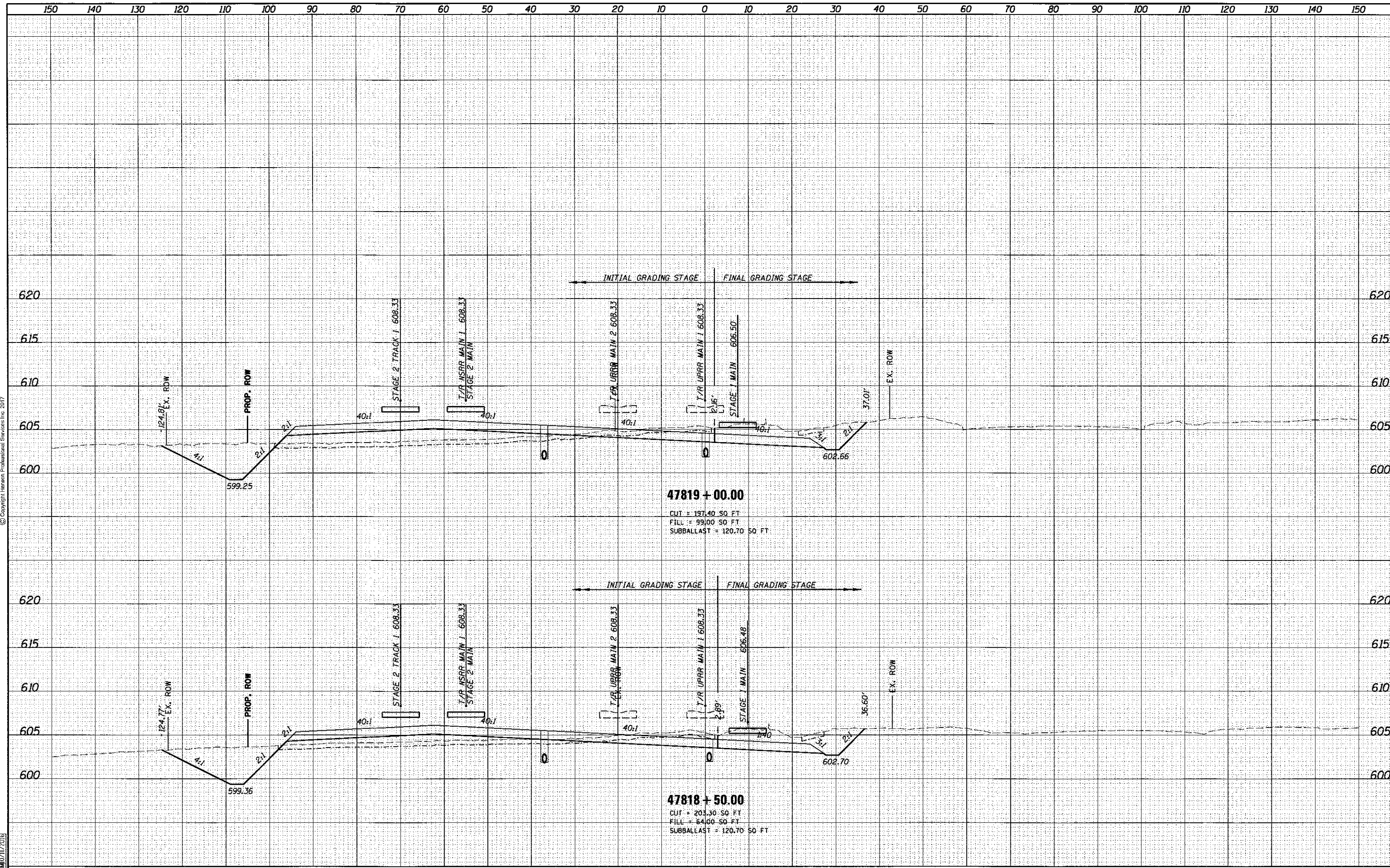


DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JWM/MNM	8/11/2015



FILE NAME = D609L0179B-xsc\_Track-Mainline.dgn  
 USER NAME = pop0275  
 DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JWM/MNM  
 DATE - 2/24/2017  
 PLOT SCALE = 20.0000' / 1" in.  
 PLOT DATE = 2/24/2017

DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JWM/MNM  
 DATE - 2/24/2017

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -  
 REVISION -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 17**  
 SCALE: SHEET 17 OF 42 SHEETS STA. 47818+50.00 TO STA. 47819+00.00

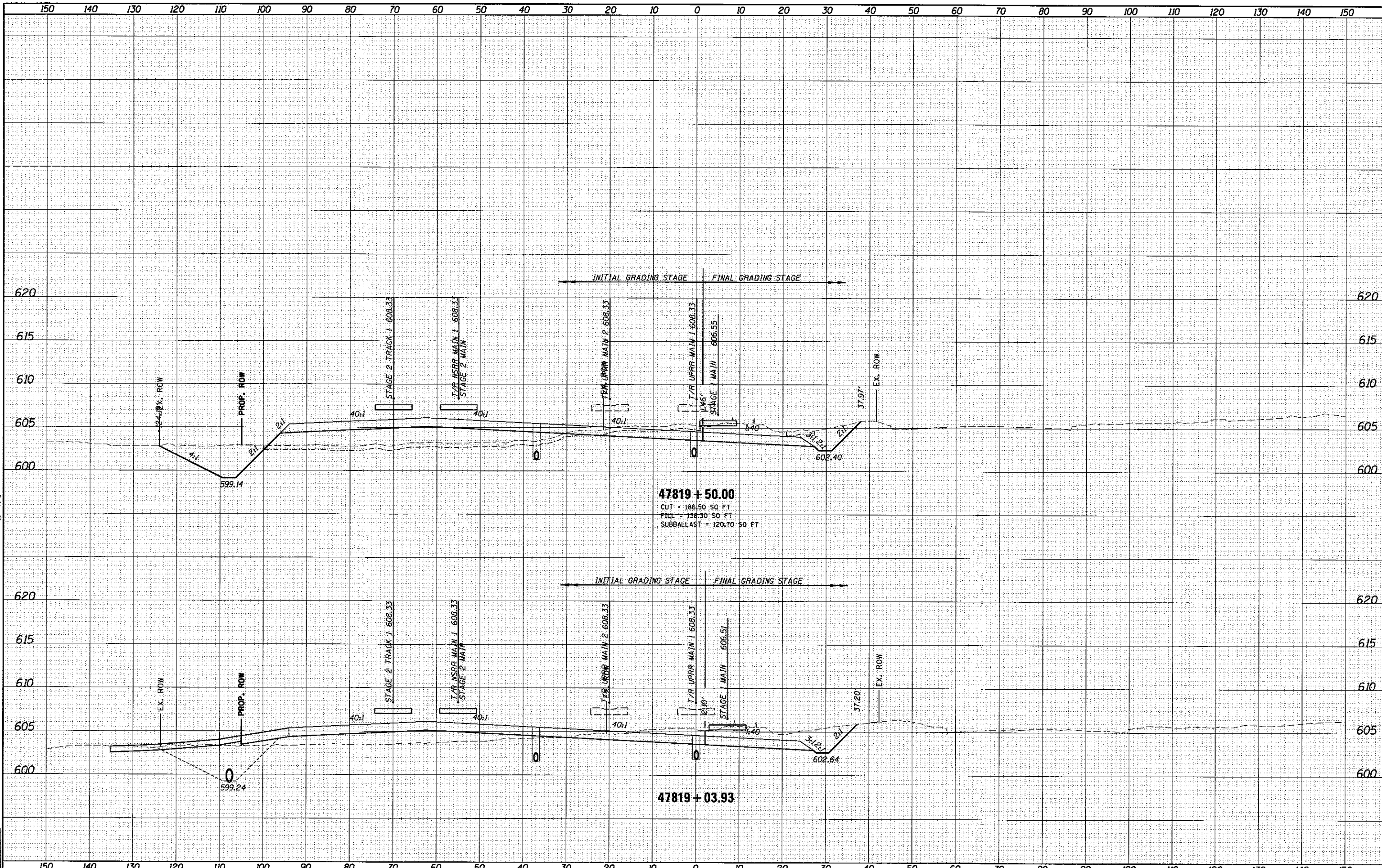
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	375
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

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



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



**47819 + 50.00**  
 CUT = 186.50 SQ FT  
 FILL = 138.30 SQ FT  
 SUBBALLAST = 120.70 SQ FT

**47819 + 03.93**

DESIGNED	JMM	7/20/2015
DRAWN	DJP	7/27/2015
REVIEWED	JMM/MNM	7/27/2015

FILE NAME = D689L01798-xsc\_Track-Mainline.dgn  
 USER NAME = pop88275  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED	- JWM	REVISED	-
DRAWN	- DJP	REVISED	-
CHECKED	- JWM/MNM	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 18**

SCALE: SHEET 18 OF 42 SHEETS STA. 47819+03.93 TO STA. 47819+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	376
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

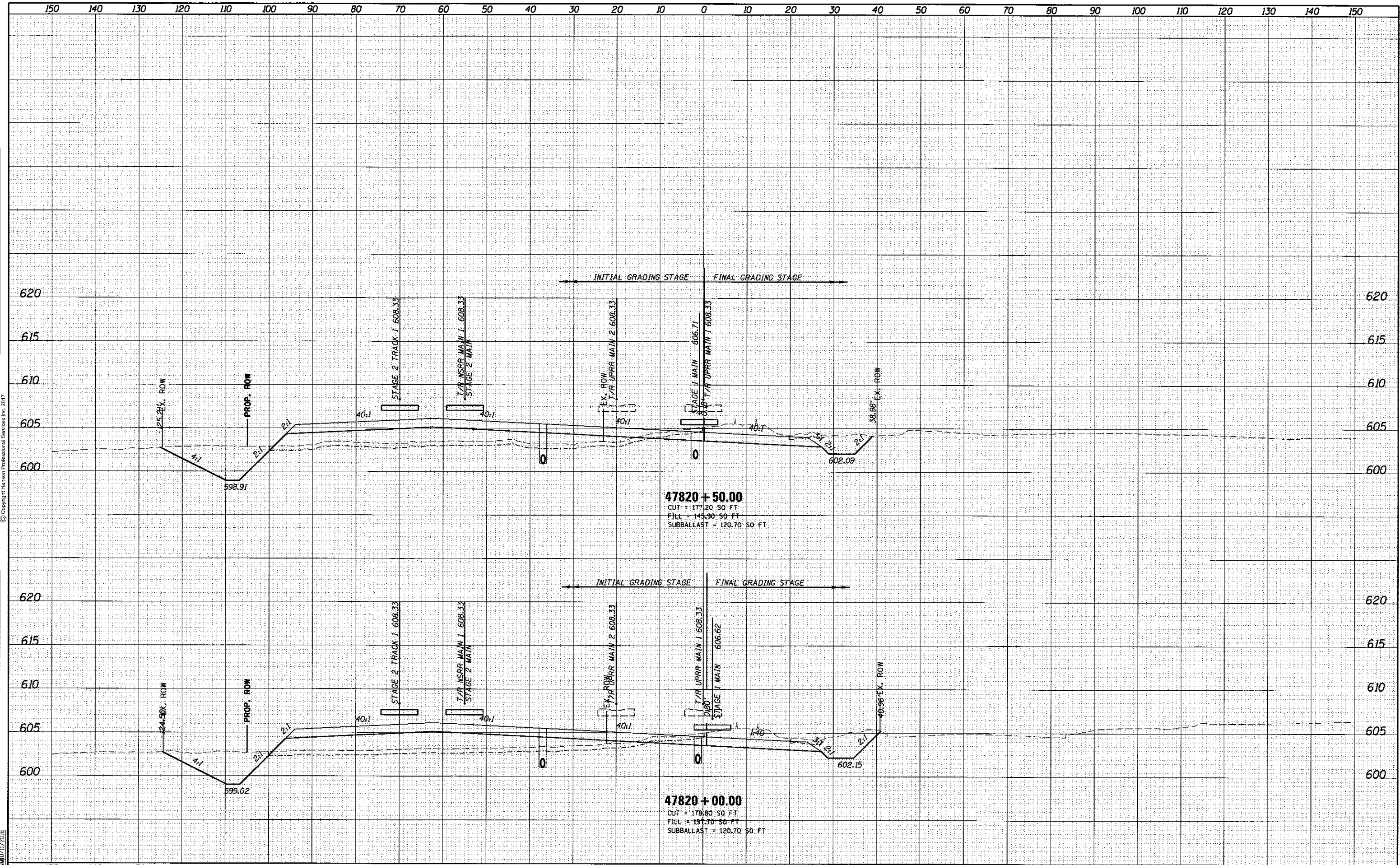


FINAL SURVEY	DATE
SURVEYED	BY
FLIPPED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
REVIEWED	JWM/MNM	1/21/2015



FILE NAME = 0609L0179B-xsc\_Track-Main1.rvt  
 USER NAME = pop02275  
 PLOT SCALE = 20.0000' / 1" /  
 PLOT DATE = 2/24/2017

DESIGNED -	JWM	REVISED -	
DRAWN -	DJP	REVISED -	
CHECKED -	JWM/MNM	REVISED -	
DATE -		REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 19

SCALE: SHEET 19 OF 42 SHEETS | STA. 47820+00.00 TO STA. 47820+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	377
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

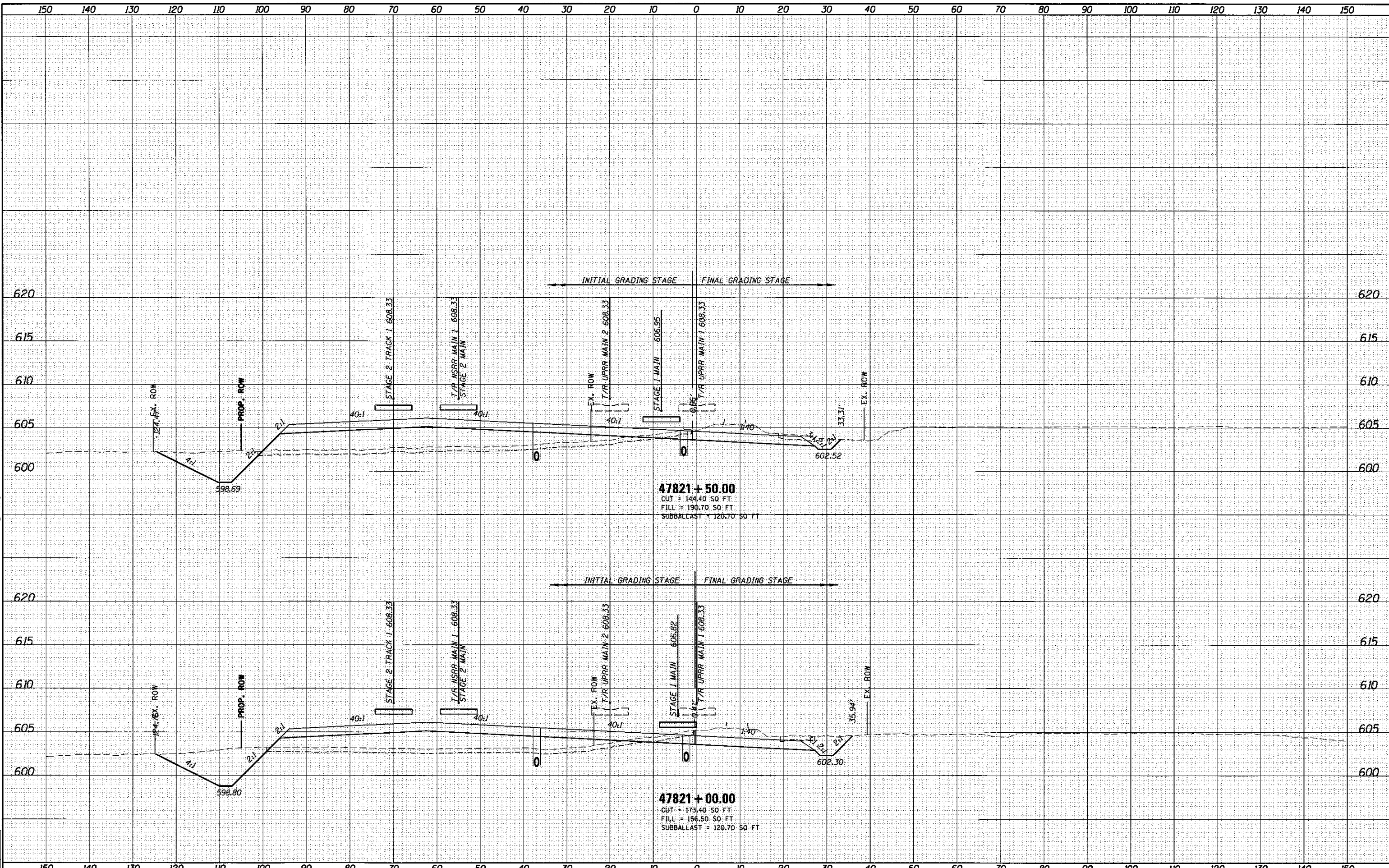
DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	7/20/2016
DRAWN	DJP	7/20/2016
REVIEWED	JWM/MNM	07/17/2016



FILE NAME = D:\09L01798-xso.Track-Mainline.dgn  
 USER NAME = pop0275  
 PLOT SCALE = 20.0000' / 1" = 1" = 20' = 20000  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE		REVIS	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 20**

SCALE: SHEET 20 OF 42 SHEETS STA. 47821+00.00 TO STA. 47821+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	378
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				



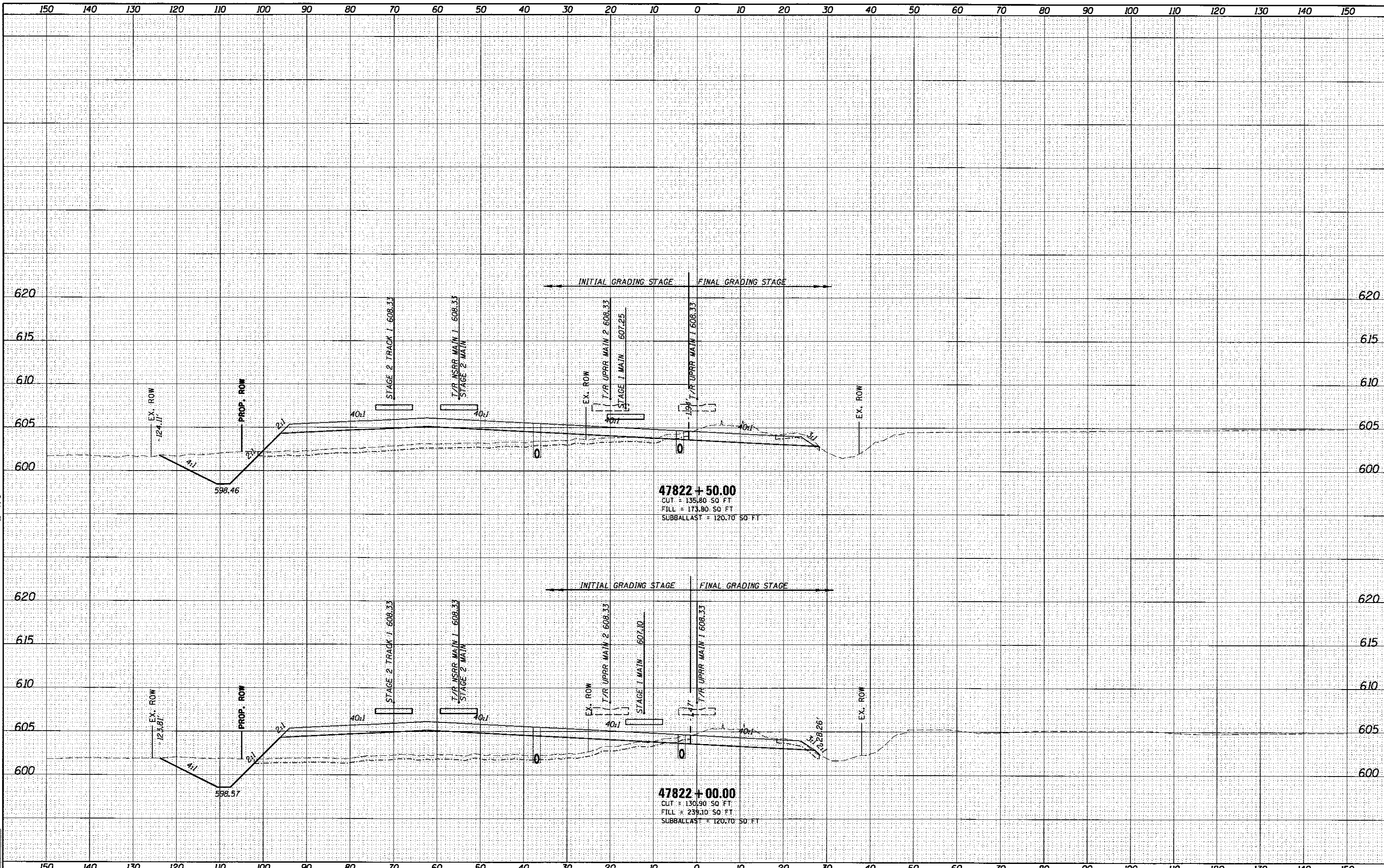
FINAL SURVEY	DATE
SURVEYED	BY
REVISIONS	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

DESIGNED	JMM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JMM/MNM	07/17/2015



FILE NAME = 0689L01798-xsc\_Track-Mainline.dgn  
 USER NAME = pop09275  
 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/24/2017

DESIGNED	-	JWM	REVISED	-
DRAWN	-	DJP	REVISED	-
CHECKED	-	JMM/MNM	REVISED	-
DATE	-		REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 21**

SCALE: SHEET 21 OF 42 SHEETS STA. 47822+00.00 TO STA. 47822+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	379
	09L0179B			CONTRACT NO. 93704

ILLINOIS FED. AID PROJECT



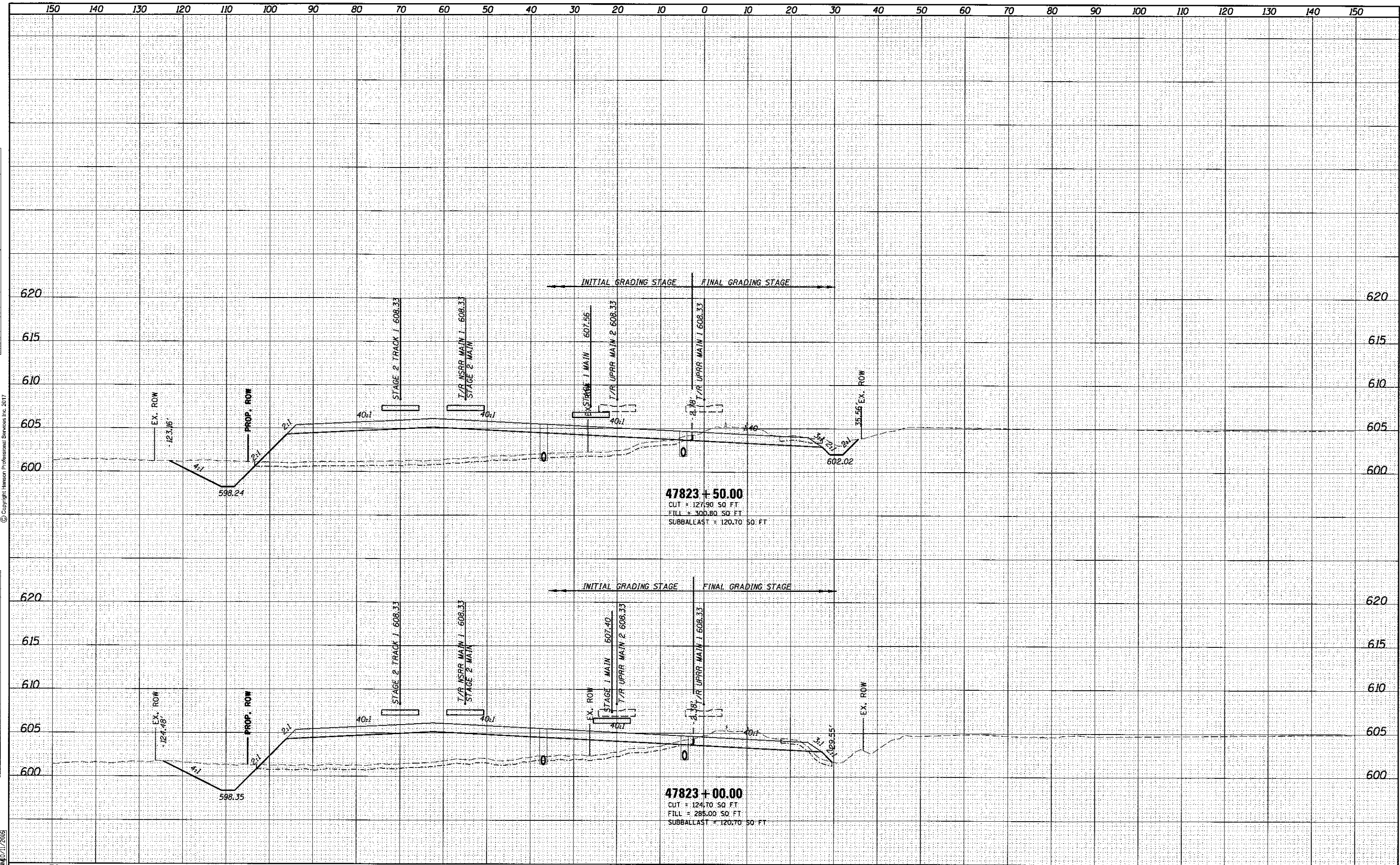
DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
CHECKED	JWM/MNM	11/11/2015



FILE NAME = DB09L0179B-xsc.Track-Mainline.dgn  
 USER NAME = pop80275  
 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	1/20/2015	REVISOR	
DRAWN	DJP	1/20/2015	REVISOR	
CHECKED	JWM/MNM	11/11/2015	REVISOR	
DATE			REVISOR	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - USABLE SEGMENT II TRACK - 22**

SCALE: SHEET 22 OF 42 SHEETS | STA. 47823+00.00 TO STA. 47823+50.00

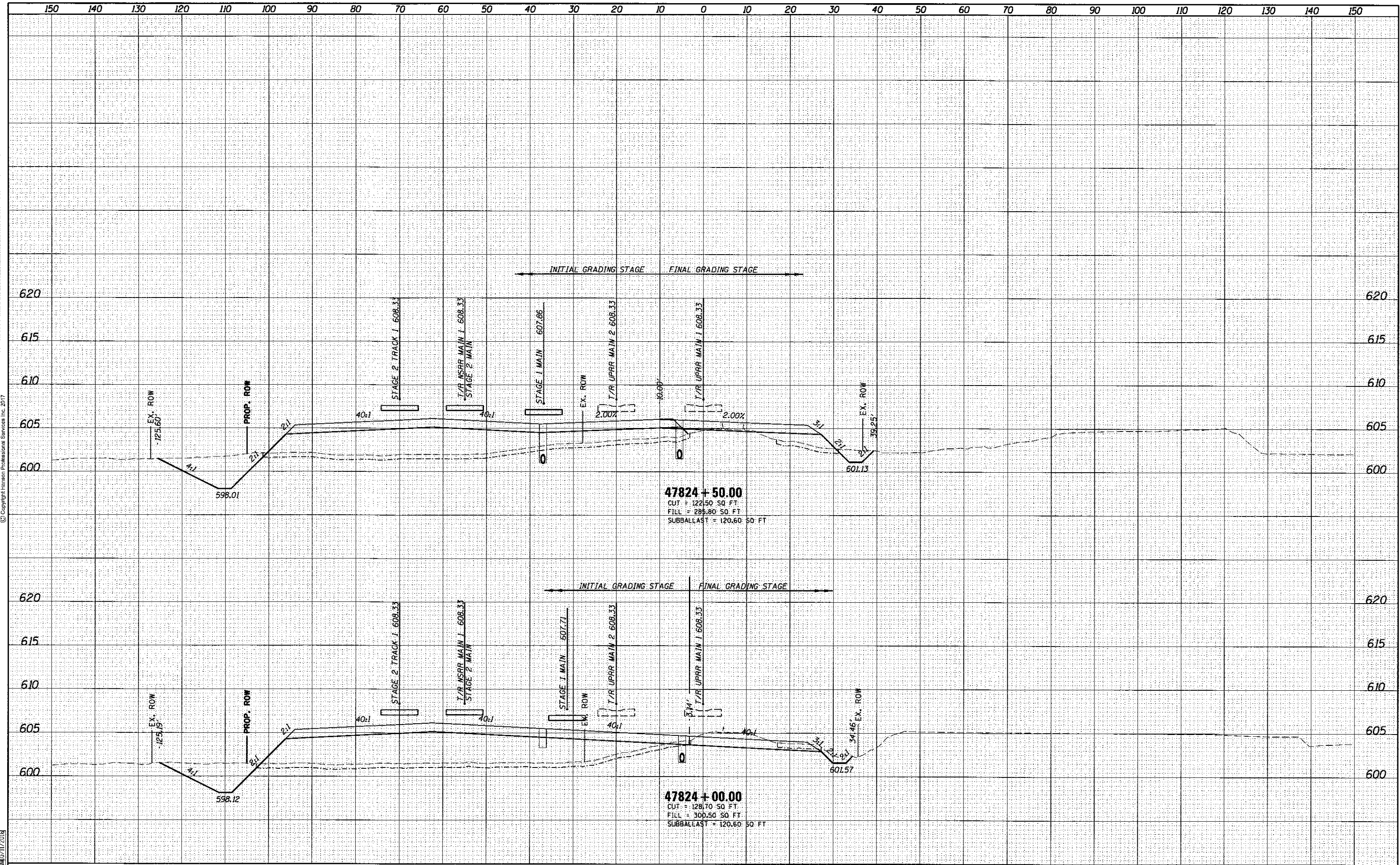
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	380
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVIEWED	
DESIGNED	
DRAWN	
CHECKED	
DATE	



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DATE	
BY	
REVIEWED	
DESIGNED	
DRAWN	
CHECKED	
DATE	



DATE	7/20/2015
BY	JWM
REVIEWED	JWM/MNM
DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
DATE	2/24/2017

FILE NAME = D:\09L0179B-xso.Track-Maintenance.dgn  
 USER NAME = pop02275  
 PLOT SCALE = 20.0000' / 1" =  
 PLOT DATE = 2/24/2017

DESIGNED - JWM	REVISED -
DRAWN - DJP	REVISED -
CHECKED - JWM/MNM	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 23**

SCALE: SHEET 23 OF 42 SHEETS | STA. 47824+00.00 TO STA. 47824+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	381
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

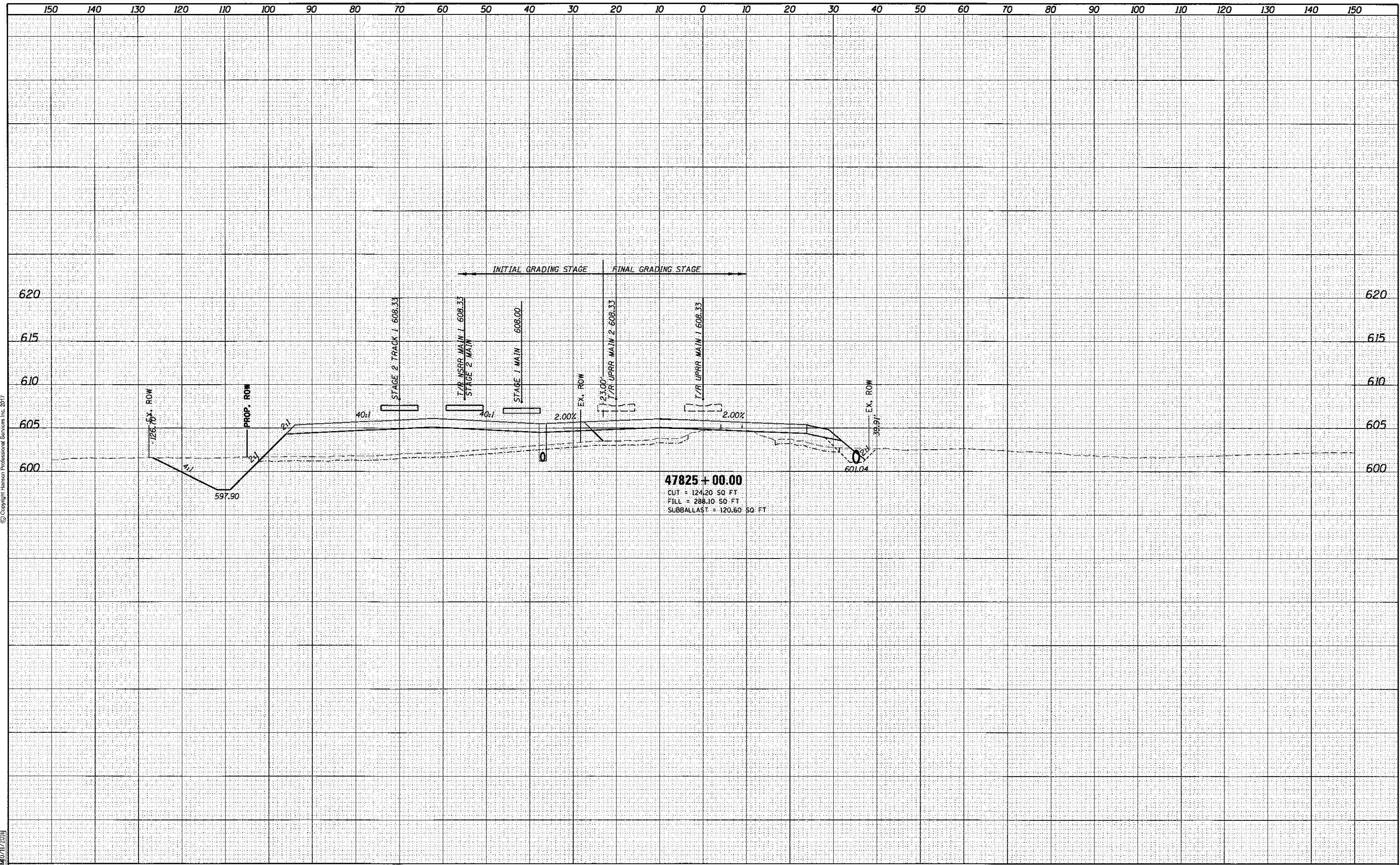


DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



DESIGNED	JJM	7/20/2015
DRAWN	DJP	7/20/2015
CHECKED	JJM/MNM	8/11/2015
REVIEWED		

FILE NAME = D:\09L0179B-xsc.Track-Maintenance.dgn  
 USER NAME = pop8275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017

DESIGNED -	JJM	REVISÉ -	
DRAWN -	DJP	REVISÉ -	
CHECKED -	JJM/MNM	REVISÉ -	
DATE -		REVISÉ -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 24**  
 SCALE: SHEET 24 OF 42 SHEETS | STA. 47824+59.79 TO STA. 47825+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	382
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

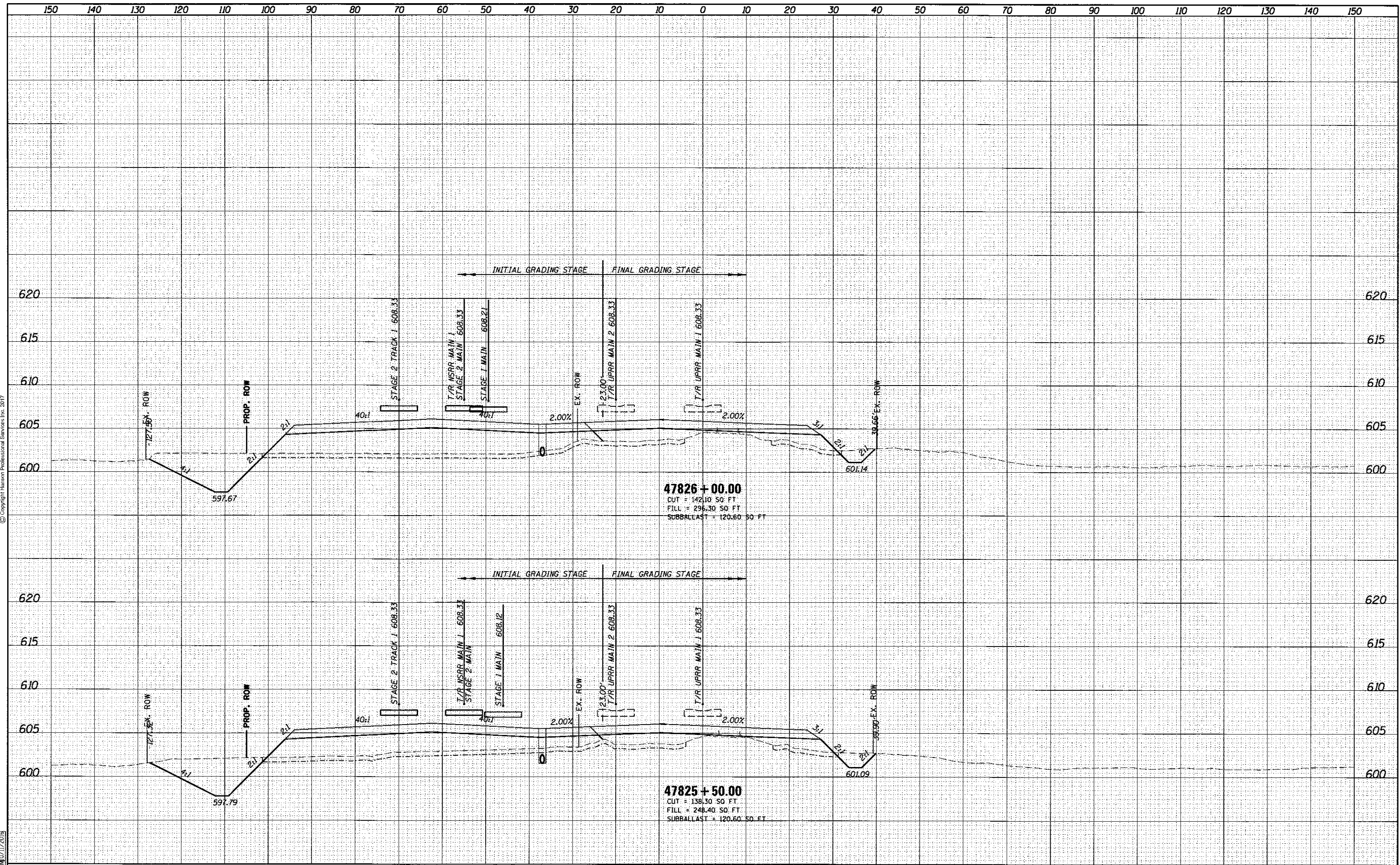
DATE	
BY	
FINAL SURVEY	SUBMITTED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	8/11/2015



FILE NAME = D689L0179B-xss\_Track-Mainline.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1".  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE	-	REVIS	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 25**  
 SCALE: SHEET 25 OF 42 SHEETS STA. 47825+50.00 TO STA. 47826+00.00

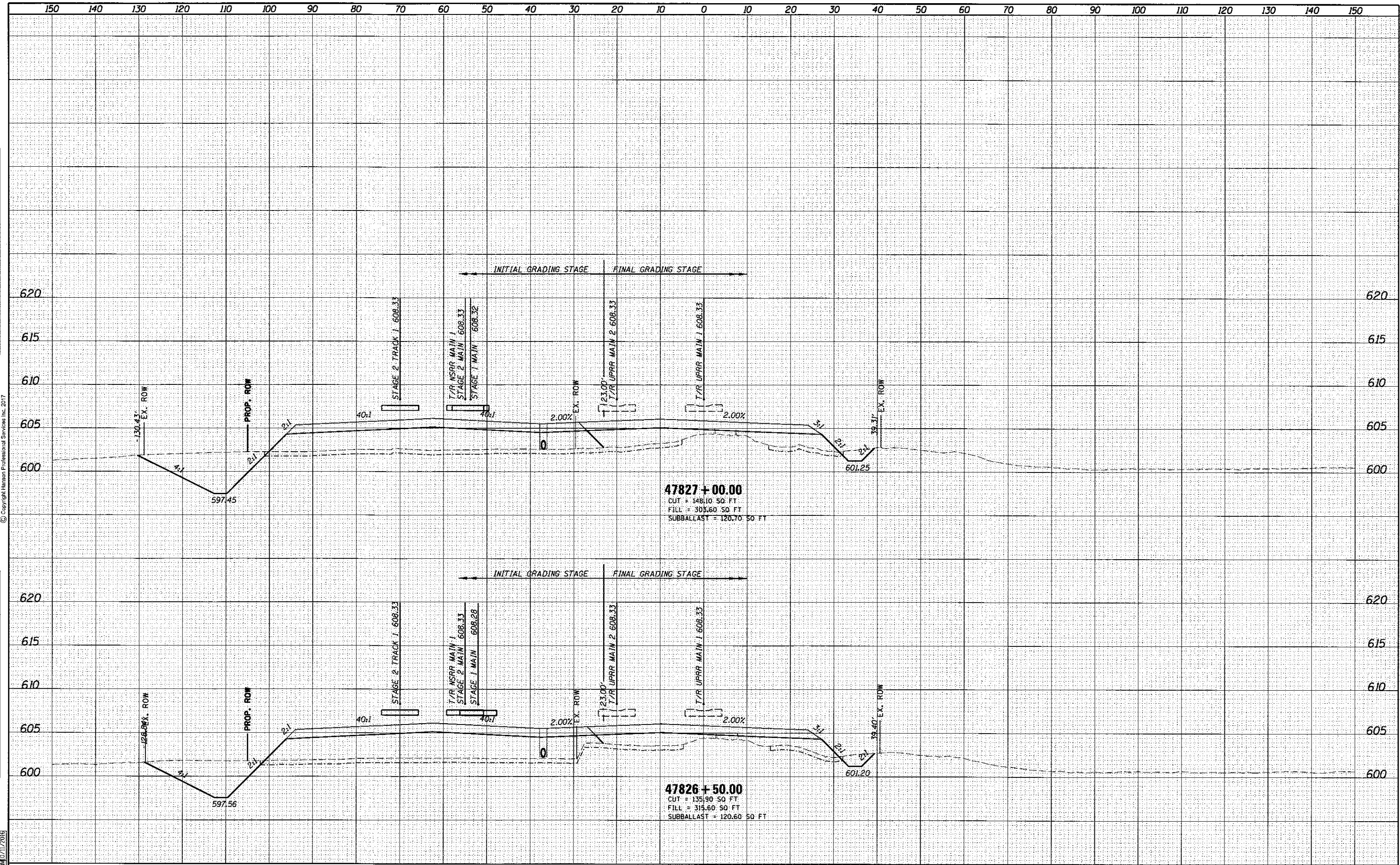
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	383
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	07/21/2015



FILE NAME : D689L01798-xso\_Track+Mainline.dgn  
 USER NAME : pop09275  
 PLOT SCALE = 20.0000' / 1" m.  
 PLOT DATE = 2/24/2017

DESIGNED	- JWM	REVISED	-
DRAWN	- DJP	REVISED	-
CHECKED	- JWM/MNM	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 26**

SCALE: SHEET 26 OF 42 SHEETS | STA. 47826+50.00 TO STA. 47827+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	384
	09L01798			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

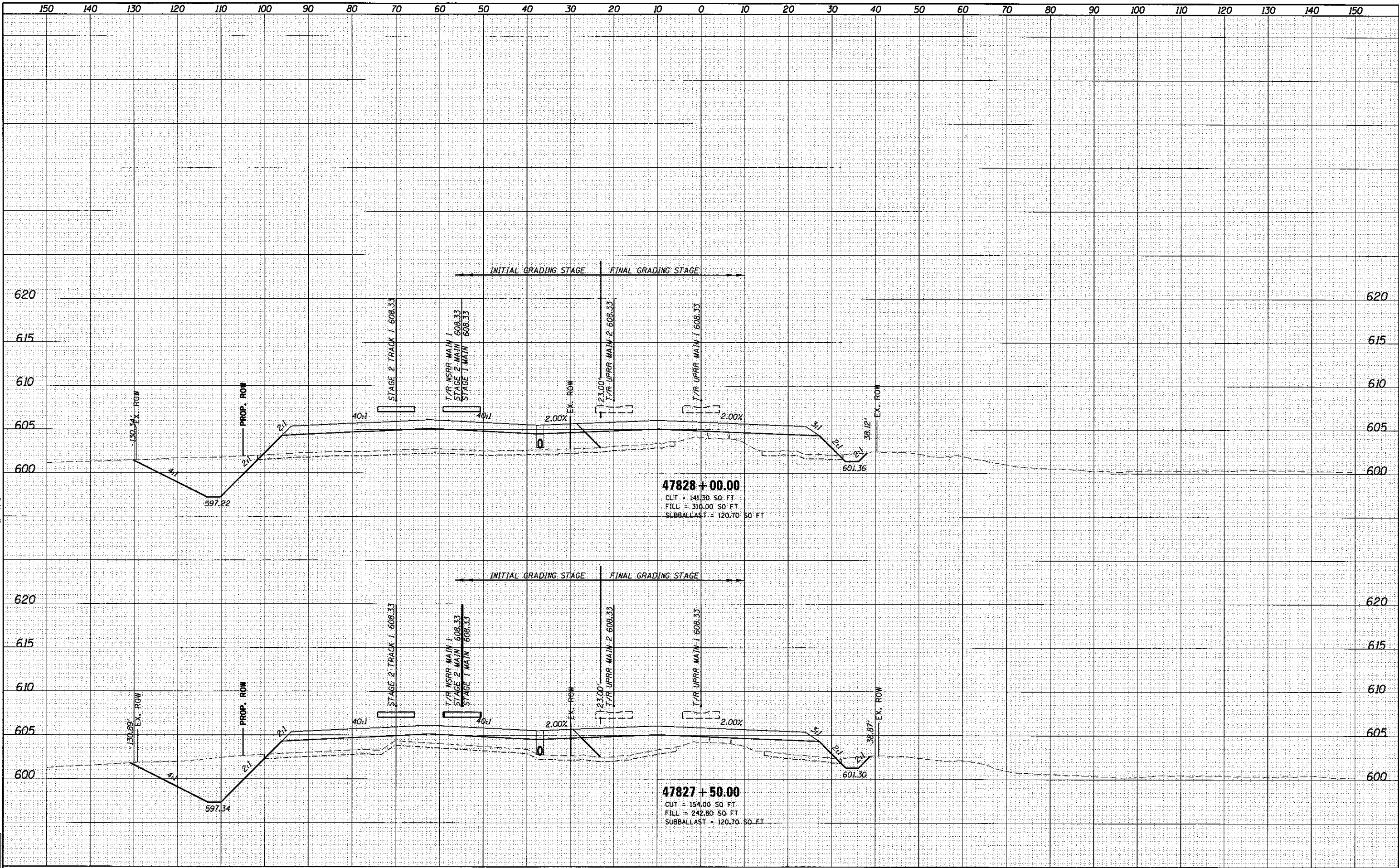


FINAL SURVEY	DATE
SURVEYED	BY
FIELD	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

DESIGNED	JJM	7/20/2013
DRAWN	DJP	7/20/2013
REVIEWED	JJM/MNM	07/21/2013



FILE NAME = D689L0179B-xsc\_Track-Main1.mxd  
 USER NAME = pop09275  
 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/24/2017

DESIGNED -	JWM	REVISED -
DRAWN -	DJP	REVISED -
CHECKED -	JWM/MNM	REVISED -
DATE -		REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 27**

SCALE: SHEET 27 OF 42 SHEETS | STA. 47827+50.00 TO STA. 47828+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	385
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

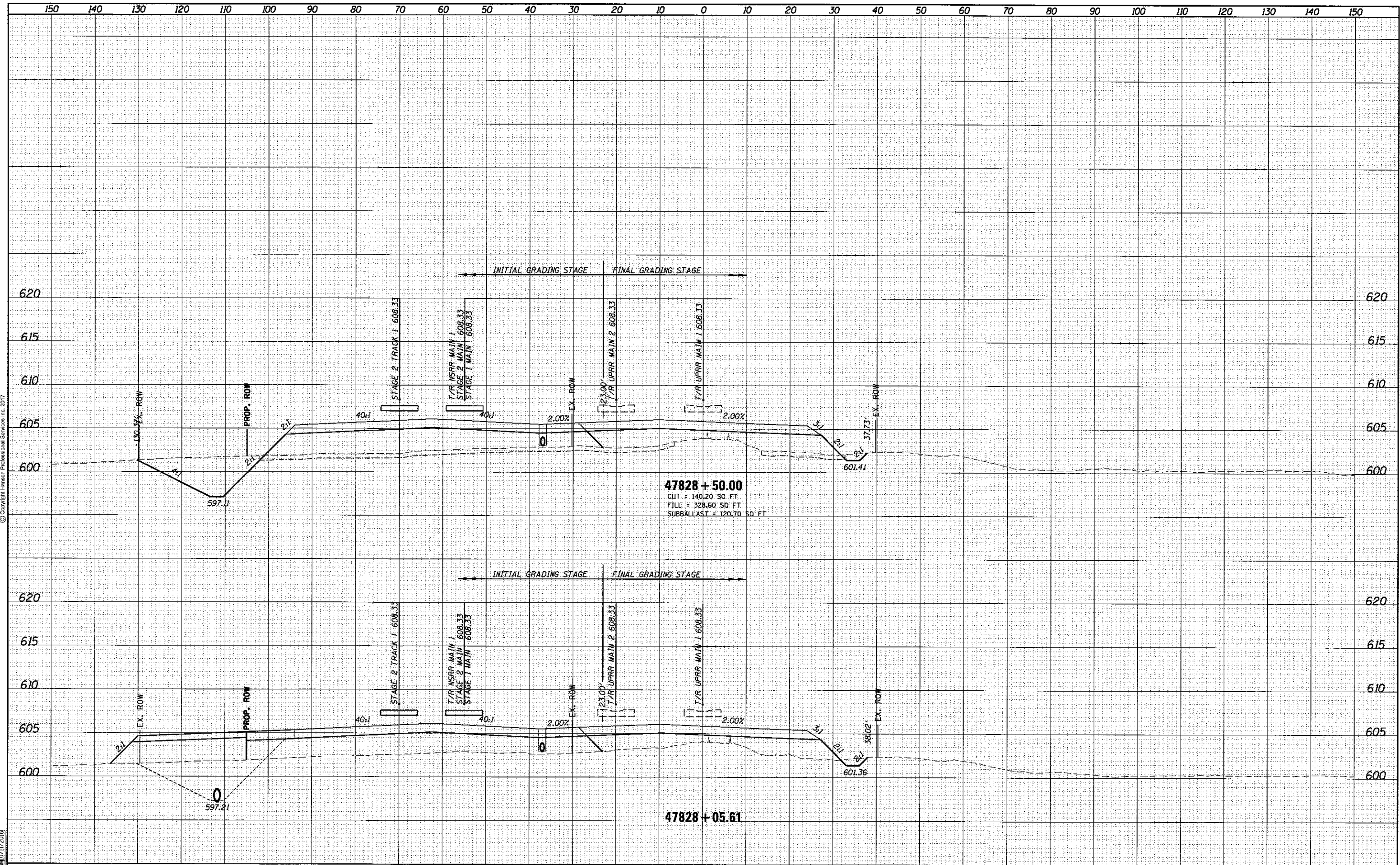
DATE	
BY	
FINAL SURVEY	
NUMBERED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	11/20/15



FILE NAME = D609L0179B-xso.Track-Mainline.dgn  
 USER NAME = pop0275  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED -	JWM	REVISÉD -	
DRAWN -	DJP	REVISÉD -	
CHECKED -	JWM/MNM	REVISÉD -	
DATE -		REVISÉD -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - USABLE SEGMENT II TRACK - 28**  
 SCALE: SHEET 28 OF 42 SHEETS | STA. 47828+05.61 TO STA. 47828+50.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	386
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT



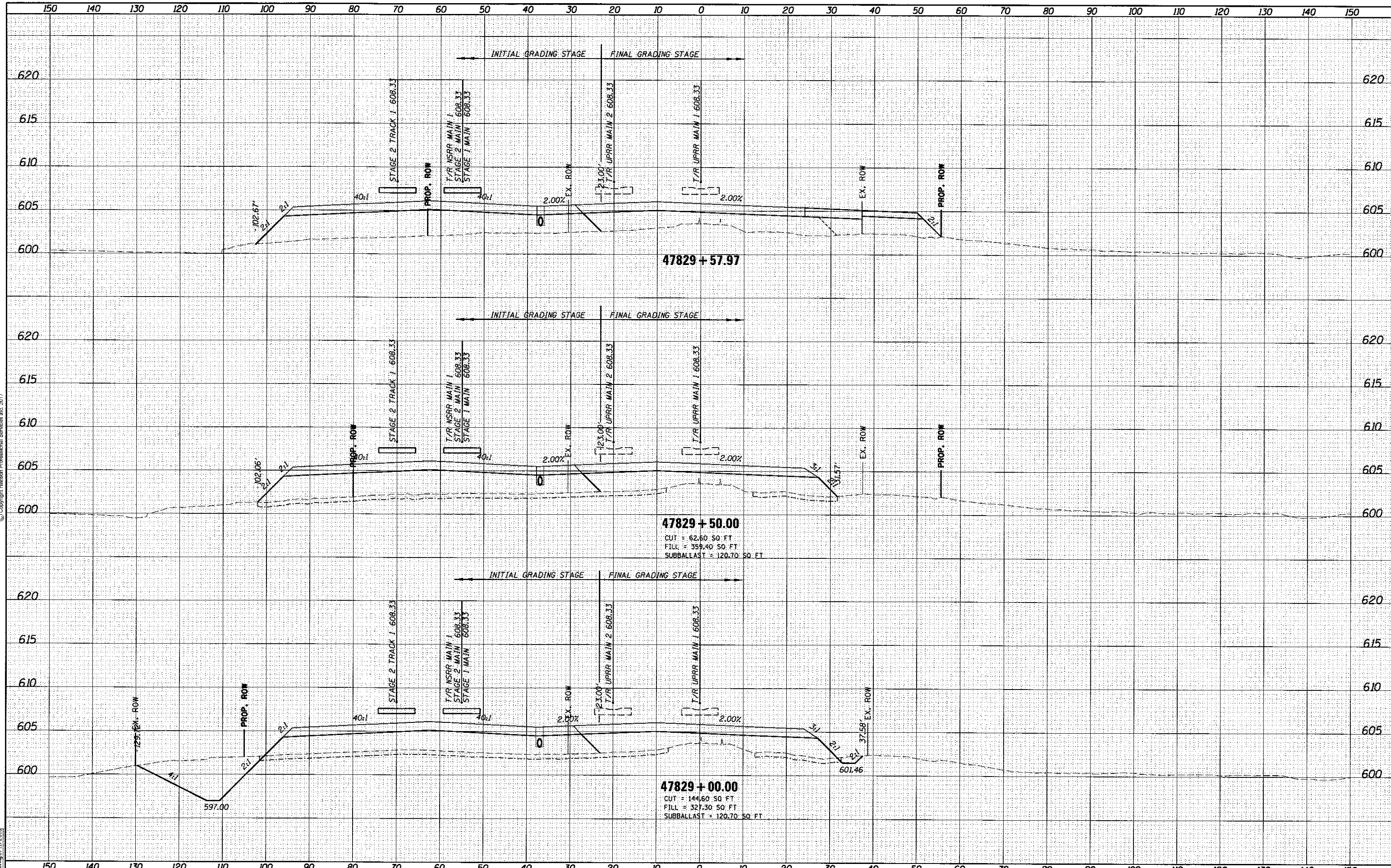
DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	11/20/16



FILE NAME = 0699L01798-xsc.Track-Main1.rvt  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVISOR	-
DRAWN	DJP	REVISOR	-
CHECKED	JWM/MNM	REVISOR	-
DATE	-	REVISOR	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 29**

SCALE: SHEET 29 OF 42 SHEETS STA. 47829+00.00 TO STA. 47829+57.97

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00477-00-BR	SANGAMON	403	387
09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT			



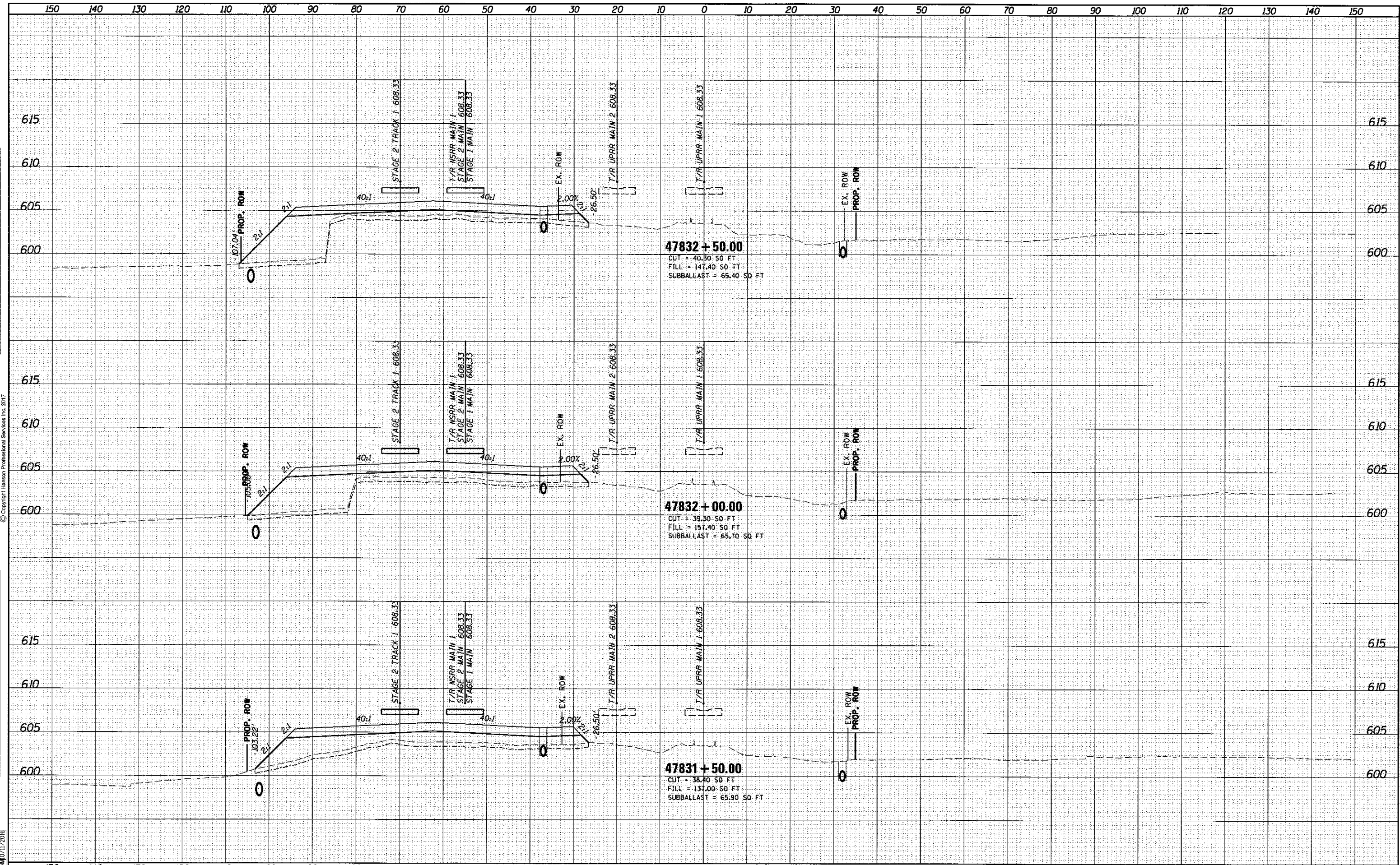


DATE	
BY	
FINAL SURVEY	
REVISIONS	
NO. DATE	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
REVISIONS	
NO. DATE	
NO.	

DATE	1/20/2015
BY	JWM
DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
DATE	2/24/2017



FILE NAME = D:\09L0179B-xsc-Track-Mainline.dgn  
 USER NAME = pop02275  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVISED	
DRAWN	DJP	REVISED	
CHECKED	JWM/MNM	REVISED	
DATE		REVISED	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 31**

SCALE: SHEET 31 OF 42 SHEETS | STA. 47831+50.00 TO STA. 47832+50.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-00477-00-BR	SANGAMON	403	389
09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT			





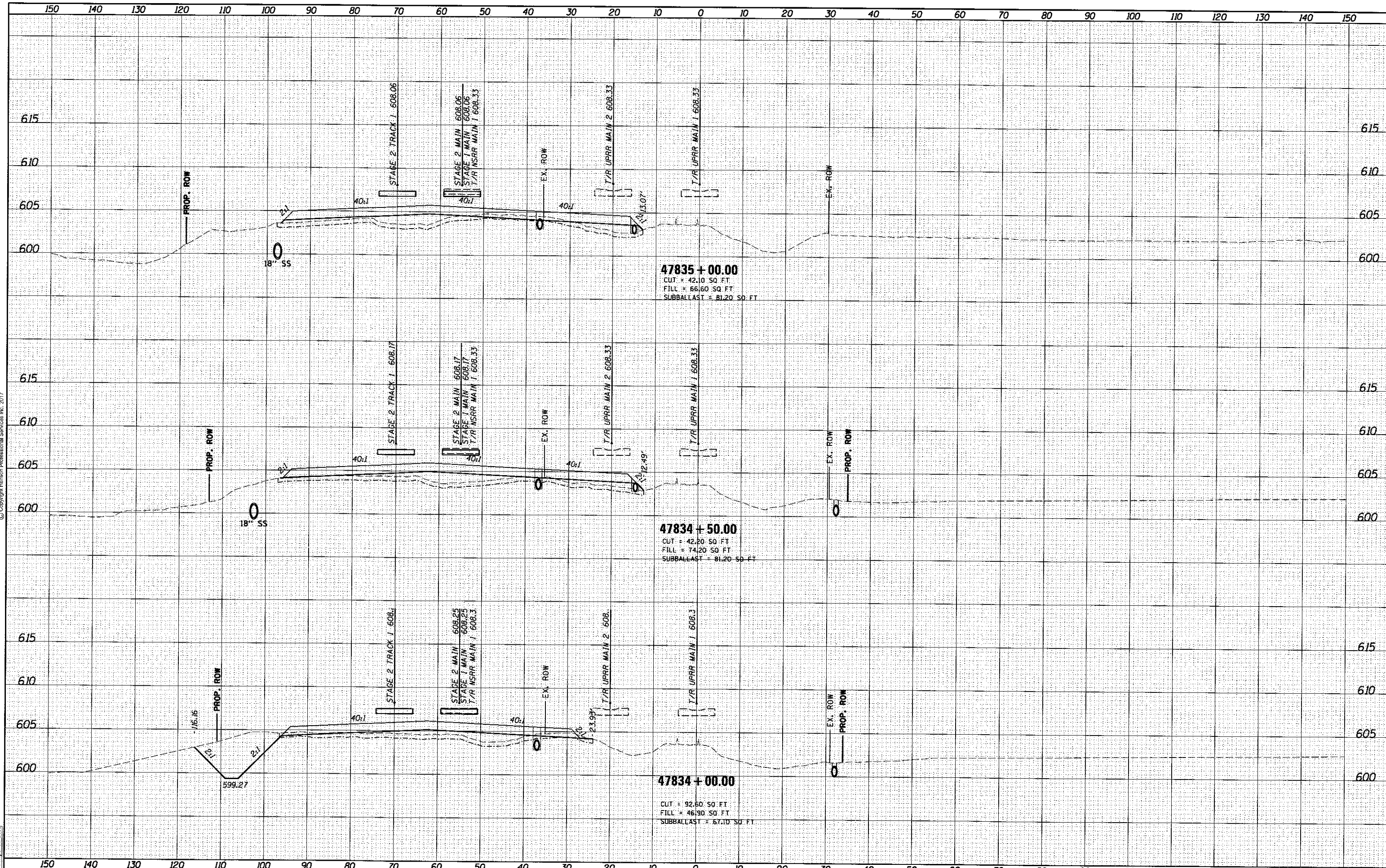
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	7/17/2016



FILE NAME = D:\09L0179B-xsc-Track-Mainline.dgn  
 USER NAME = pep00275  
 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/24/2017

DESIGNED - JWM  
 DRAWN - DJP  
 CHECKED - JWM/MNM  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK - 33**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	391
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 33 OF 42 SHEETS STA. 47834+00.00 TO STA. 47835+00.00

DATE	
BY	
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
SURVEYED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	11/20/2015
DESIGNED	JWM
DRAWN	DJP
CHECKED	JWM/MNM
REVIEWED	JWM



FILE NAME = D:\09L0179B-xsc\_Track-Mainline.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/24/2017

DESIGNED	- JWM	REVISED	-
DRAWN	- DJP	REVISED	-
CHECKED	- JWM/MNM	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 34**

SCALE: SHEET 34 OF 42 SHEETS | STA. 47835+50.00 TO STA. 47836+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	392
	09L0179B	CONTRACT NO.	93704	
ILLINOIS FED. AID PROJECT				



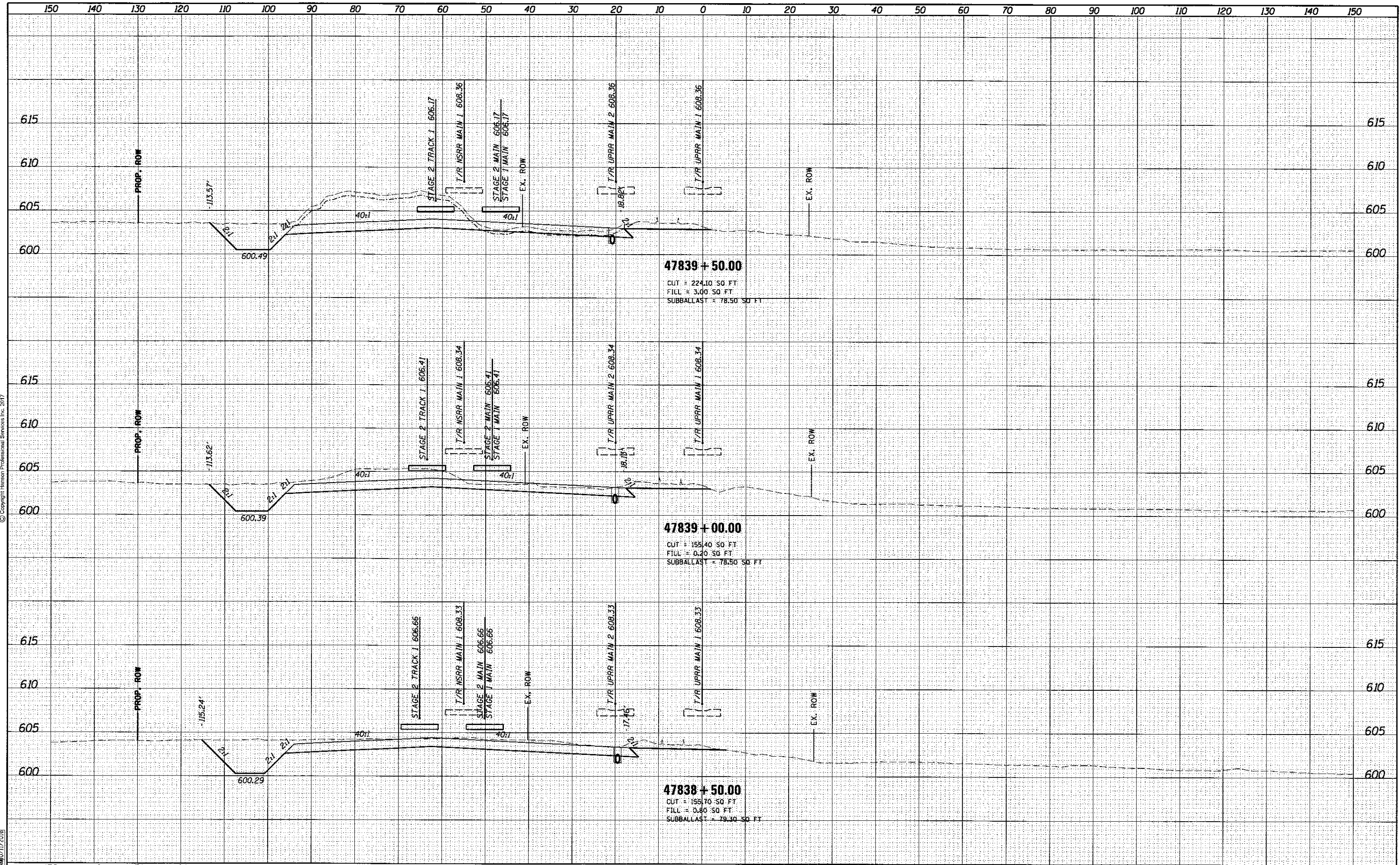


DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
NO.	



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
NO.	

DATE	1/30/2015
BY	JJM
DESIGNED	1/30/2015
DRAWN	DJP
CHECKED	1/30/2015
REVIEWED	JJM/MNM
NO.	10/1/2016



**47839 + 50.00**  
 CUT = 224.10 SO FT  
 FILL = 3.00 SO FT  
 SUBBALLAST = 78.50 SO FT

**47839 + 00.00**  
 CUT = 155.40 SO FT  
 FILL = 0.20 SO FT  
 SUBBALLAST = 78.50 SO FT

**47838 + 50.00**  
 CUT = 155.70 SO FT  
 FILL = 0.80 SO FT  
 SUBBALLAST = 79.30 SO FT

FILE NAME = 0609L0179B-xso\_Track-Mainline.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1" = 1/2000  
 PLOT DATE = 2/24/2017

DESIGNED	JJM	REVISOR	
DRAWN	DJP	REVISOR	
CHECKED	JJM/MNM	REVISOR	
DATE	2/24/2017	REVISOR	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 36**

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	394
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 36 OF 42 SHEETS STA. 47838+50.00 TO STA. 47839+50.00





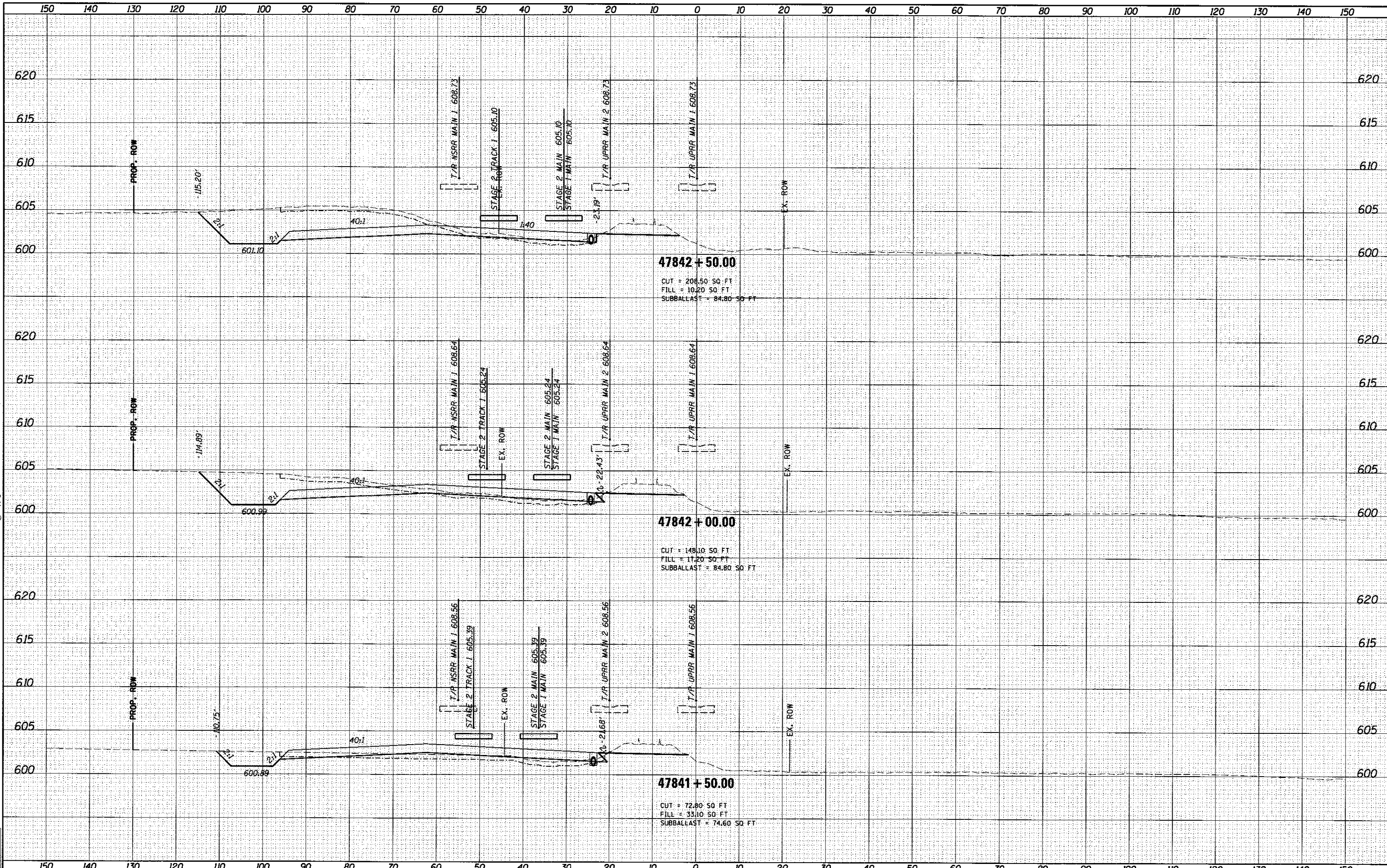
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	



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

DESIGNED	JWM	1/20/2016
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	10/11/2016



FILE NAME = D609L0179B-xsc.Track-Mainline.dgn  
 USER NAME = pop08275  
 PLOT SCALE = 20.0000" / 1"  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MNM	REVIS	-
DATE		REVIS	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
CROSS SECTIONS - USABLE SEGMENT II TRACK - 38**

SCALE: SHEET 38 OF 42 SHEETS | STA. 47841+50.00 TO STA. 47842+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	396
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				







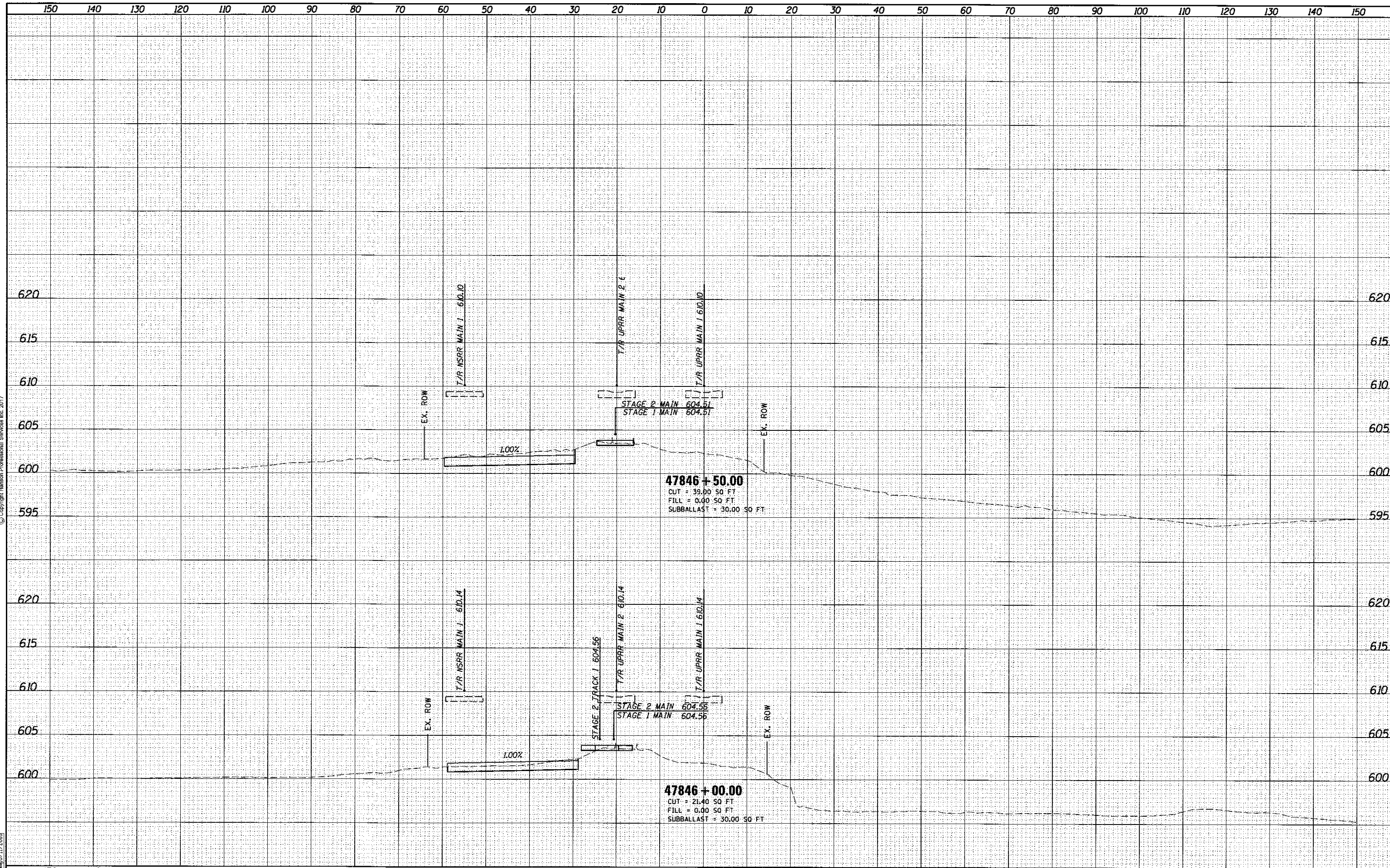


FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	



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

DESIGNED	JWM	7/20/2015
DRAWN	DJP	7/20/2015
REVIEWED	JWM/MNM	11/20/16



FILE NAME = 0609L0179B-xsc-Track-MainLine.dgn	USER NAME = pap00275	DESIGNED - JWM	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SPRINGFIELD RAIL IMPROVEMENTS PROJECT</b> <b>SPRINGFIELD, SANGAMON COUNTY, ILLINOIS</b> <b>CROSS SECTIONS - USABLE SEGMENT II TRACK - 41</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.0000' / in.	CHECKED - JWM/MNM	REVISED -	14-00477-00-BR			SANGAMON	403	399		
PLOT DATE = 2/24/2017	DATE -	REVISED -	09L0179B			CONTRACT NO.	93704			
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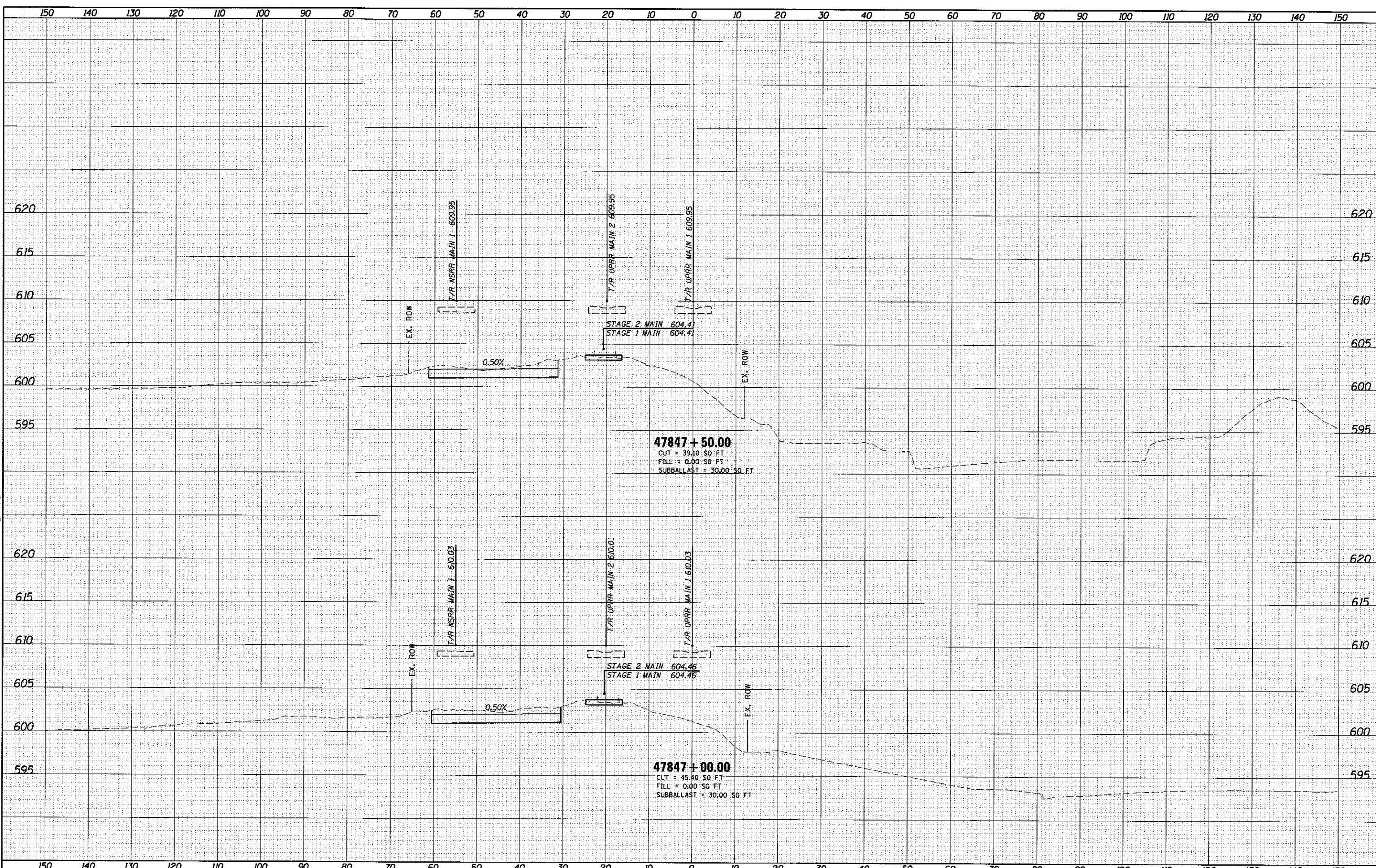
DATE	
BY	
FINAL SURVEY	
NOTE BOOK NO.	
AREAS CHECKED	



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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK NO.	
AREAS CHECKED	

DESIGNED	JWM	1/20/2015
DRAWN	DJP	1/20/2015
CHECKED	JWM/MNM	1/11/2015
REVIEWED		



FILE NAME = DB89L0179B-xsc\_Track-Main1.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / 1" / in.  
 PLOT DATE = 2/24/2017

DESIGNED -	JWM	REVISÉD -	
DRAWN -	DJP	REVISÉD -	
CHECKED -	JWM/MNM	REVISÉD -	
DATE -		REVISÉD -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPRINGFIELD RAIL IMPROVEMENTS PROJECT**  
**SPRINGFIELD, SANGAMON COUNTY, ILLINOIS**  
**CROSS SECTIONS - USABLE SEGMENT II TRACK - 42**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	400
			CONTRACT NO.	93704
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 42 OF 42 SHEETS STA. 47847+00.00 TO STA. 47847+50.00





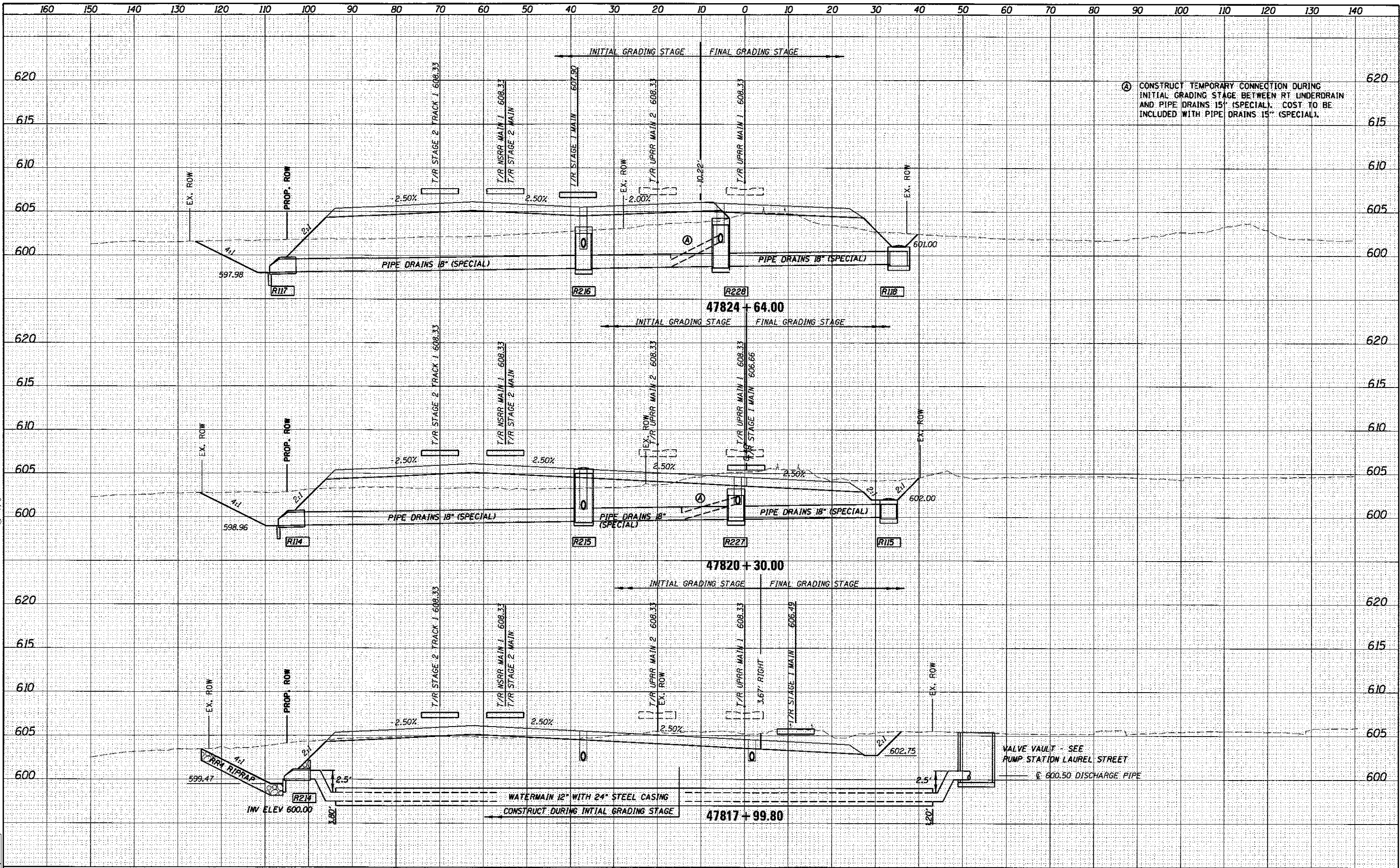
DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
DATE	



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DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	
DATE	

DATE	7/20/2015
BY	JJM
DESIGNED	JJM
DRAWN	DJP
CHECKED	JJM/MNM
REVIEWED	JJM
DATE	2/24/2017



Ⓐ CONSTRUCT TEMPORARY CONNECTION DURING INITIAL GRADING STAGE BETWEEN RT UNDERDRAIN AND PIPE DRAINS 15\" (SPECIAL). COST TO BE INCLUDED WITH PIPE DRAINS 15\" (SPECIAL).

VALVE VAULT - SEE PUMP STATION LAUREL STREET  
 @ 600.50 DISCHARGE PIPE

FILE NAME = D689L0179B-xsc\_Track-Drainage.dgn  
 USER NAME = pop02275  
 PLOT SCALE = 20.0000' / 1\"  
 PLOT DATE = 2/24/2017

DESIGNED	JJM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JJM/MNM	REVIS	-
DATE	2/24/2017	REVIS	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK DRAINAGE - 2  
 SCALE: SHEET 2 OF 3 SHEETS STA. 47817+98.00 TO STA. 47820+30.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	402
	09L0179B			CONTRACT NO. 93704
ILLINOIS FED. AID PROJECT				

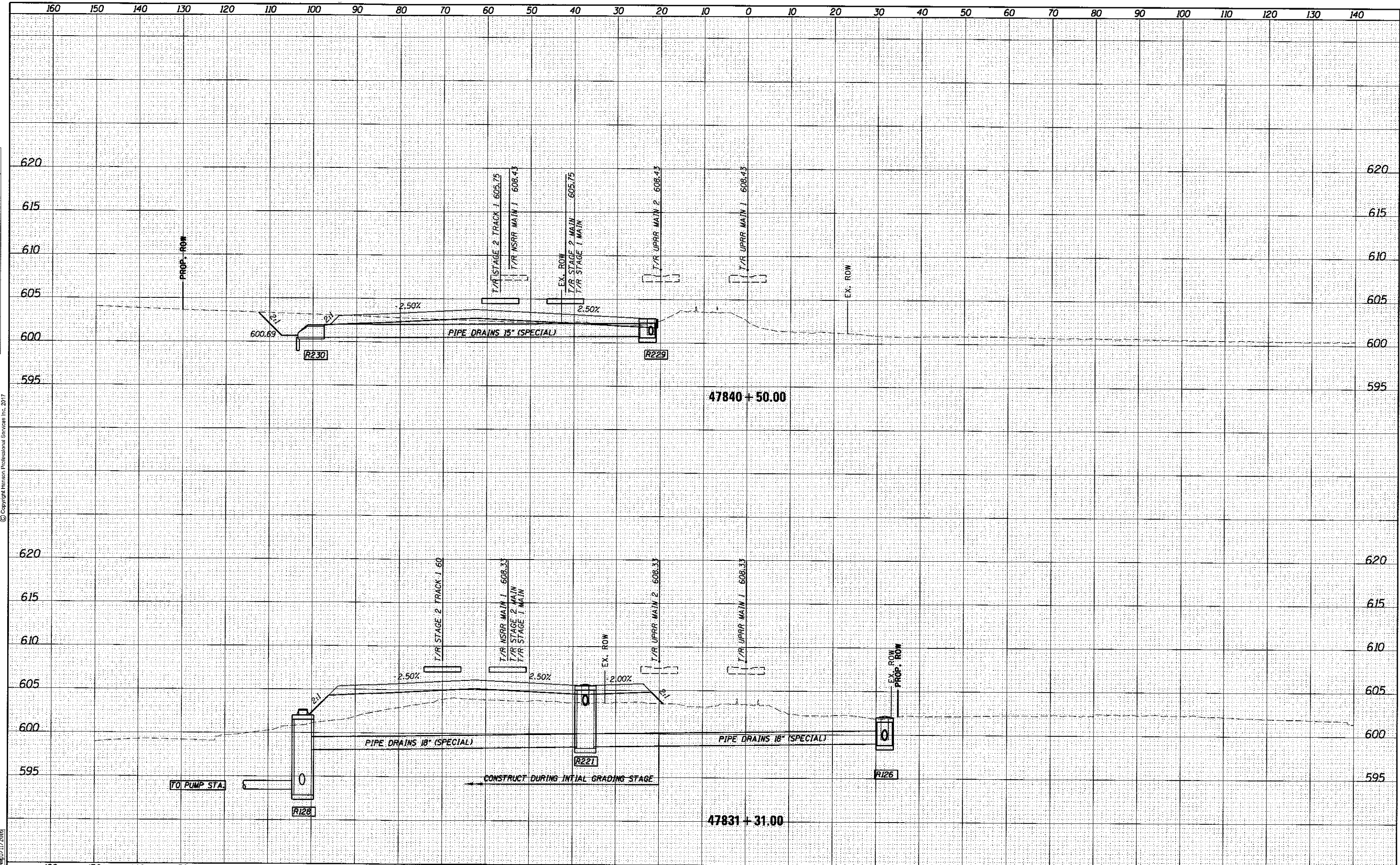


DATE	
BY	
FINAL SURVEY	
SUBMITTED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	



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

DESIGNED	JWM	11/20/2015
DRAWN	DJP	11/20/2015
CHECKED	JWM/MMM	11/20/2015
REVIEWED		



FILE NAME = 0609L01798-xec.Track-Drainage.dgn  
 USER NAME = pop00275  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 2/24/2017

DESIGNED	JWM	REVIS	-
DRAWN	DJP	REVIS	-
CHECKED	JWM/MMM	REVIS	-
DATE		REVIS	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT  
 SPRINGFIELD, SANGAMON COUNTY, ILLINOIS  
 CROSS SECTIONS - USABLE SEGMENT II TRACK DRAINAGE - 3  
 SCALE: SHEET 3 OF 3 SHEETS STA. 47824+64.00 TO STA. 47831+31.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	14-00477-00-BR	SANGAMON	403	403
	09L0179B			CONTRACT NO. 93704
				ILLINOIS FED. AID PROJECT