

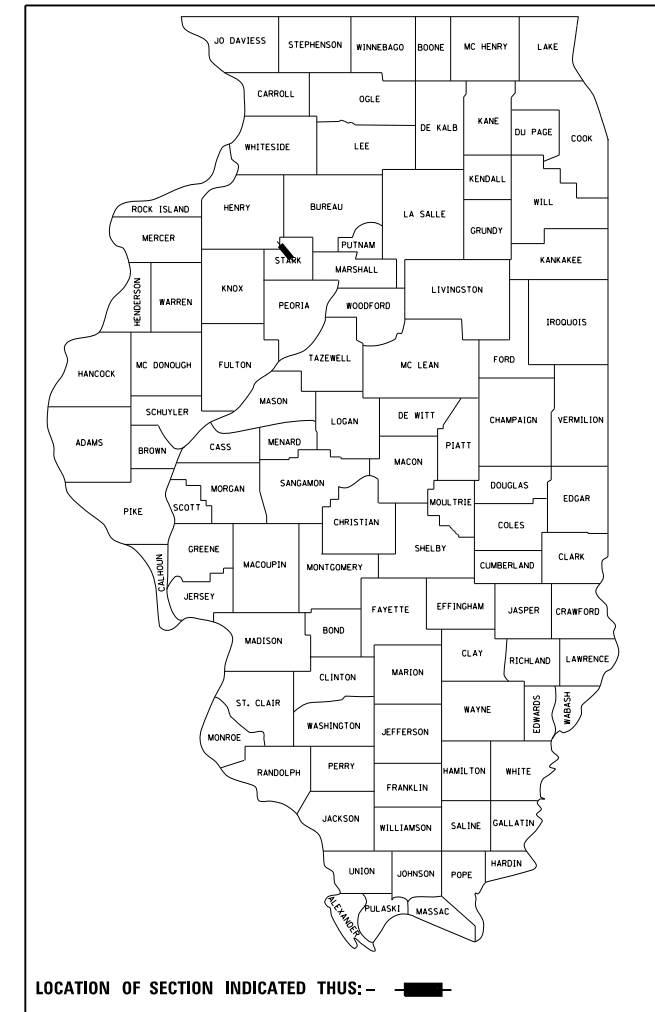
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1193	14-00178-00-BR	STARK	26	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 89736		

03-09-2018 LETTING ITEM 128

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM**

**PROJECT GKF1(618)  
SECTION 14-00178-00-BR  
STARK COUNTY  
F.A.S. 1193 / C.H. 8 / OSCEOLA ROAD  
C-94-021-18**



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.	TYPICAL CROSS SECTIONS
5.	PLAN AND PROFILE
6-9.	CULVERT PLANS
10.	BORINGS
11-26.	STATION CROSS SECTIONS

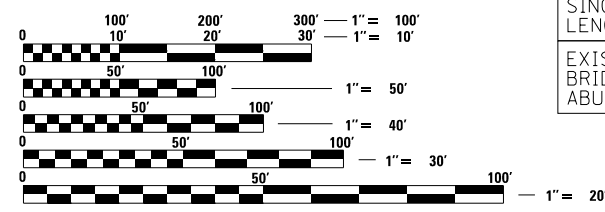
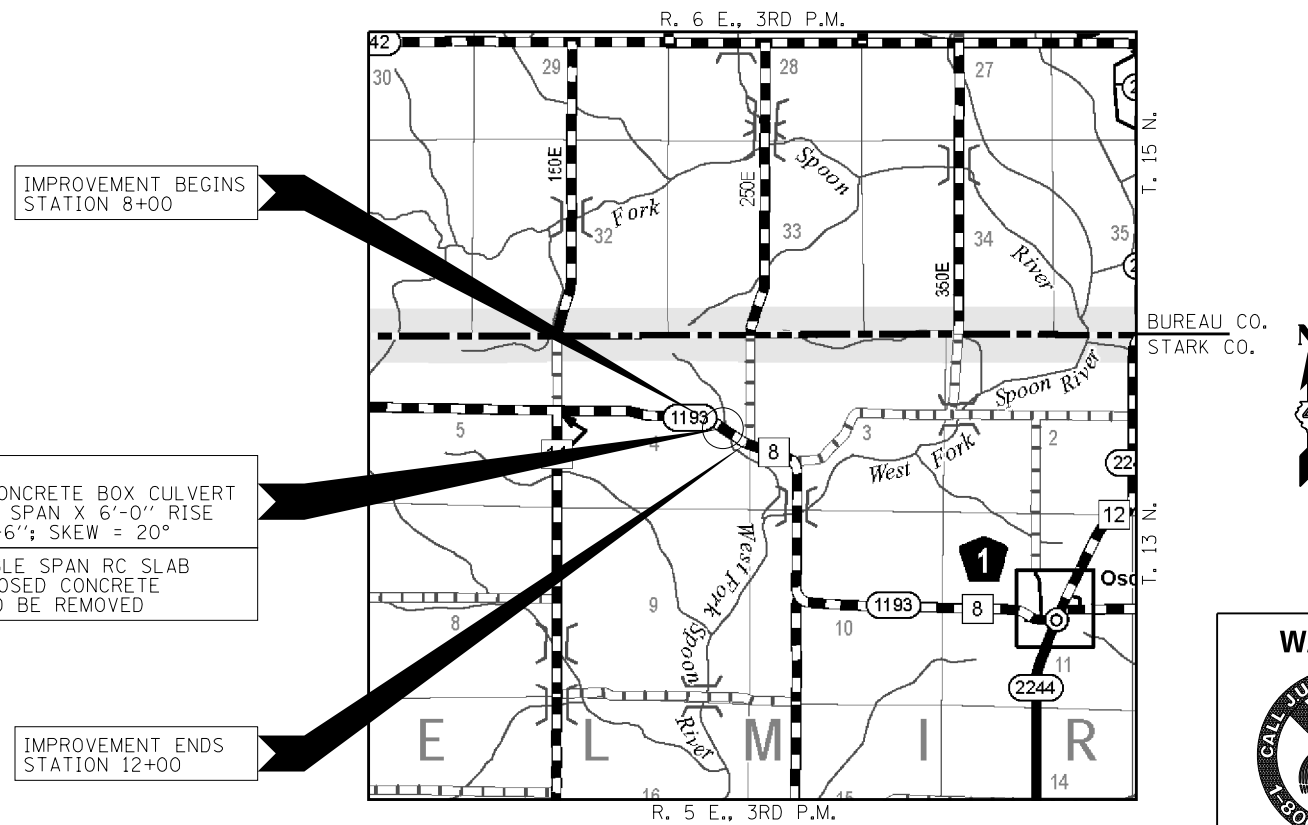
HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
701901-07	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**UTILITIES**

AMEREN / IP  
300 LIBERTY STREET  
PEORIA, IL 61602

FRONTIER COMMUNICATIONS  
111 S. MAIN STREET  
KEWANEE, IL 61443  
ATTN: KALIN HINSHAW  
815-895-1515



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**LOCATION MAP**

APPROXIMATE SCALE: 0 1/2 MILE  
NET LENGTH OF SECTION = 400 FEET = 0.075 MILES  
GROSS LENGTH OF SECTION = 550 FEET = 0.104 MILES

FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: 450 ADT

**CATALOG NO. 035543-00  
CONTRACT NO. 89736**

**WARNING**

**CALL 811  
BEFORE YOU DIG**

DIG NO: A0140290

APPROVED 12/21 2017  
*Mark J. Otto*  
COUNTY ENGINEER

PASSED 12-21 2017  
*Konrad A. Benitez*  
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review  
12-27 2017  
Konrad A. Benitez  
REGION THREE ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE: 12/21/2017

EXPIRES: 11/30/2019

**HAMPTON, LENZINI AND RENWICK, INC.**  
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
217.546.3400 www.hlrengineering.com

184.000989  
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

PROJECT NUMBER: 15.0251.130 DATE: 12/21/17

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE 0004	
		UNIT	TOTAL
20200100	EARTH EXCAVATION	CUYD	460
20400800	FURNISHED EXCAVATION	CUYD	270
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	1,156
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	90
35100100	AGGREGATE BASE COURSE, TYPE A	TON	729
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,200
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	352
X0300006	POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	137
40603510	POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	82
48101200	AGGREGATE SHOULDERS, TYPE B	TON	95
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20750
50900205	STEEL RAILING, TYPE S1	FOOT	25
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CUYD	115.6
66500105	WOVEN WIRE FENCE, 4'	FOOT	415
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1600
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQYD	107
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	750
X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CUYD	40
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
Z0013798	CONSTRUCTION LAYOUT	L SUM	1

^ SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

HMA MIXTURE REQUIREMENTS		
MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE
PG:	SBS OR SBR 76-28	SBS OR SBR 76-28
DESIGN AIR VOIDS:	4% @ Ndes 50	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5	IL 9.5
FRICTION AGGREGATE:	MIXTURE C	NONE
MIXTURE WEIGHTS:	112 LBS/SY\ INCH THICKNESS	112 LBS/SY\ INCH THICKNESS
QUALITY CONTROL PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE	N.A	N.A

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING BITUMINOUS SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPOSED DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES HAS NOT BEEN PREDETERMINED. THE SE LOCATIONS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE. BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES, JULIE, AND BY FIELD INSPECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE BASE COURSE	2.05 TON/CUYD
HOT MIX ASPHALT	112 LBS/SQYD/INCH THICKNESS
AGGR SHOULDER, TYPE B	2.0 TON/CUYD

### POLYMERIZED BITUMINOUS MATERIALS RATES

SURFACE TYPE	RESIDUAL RATE
AGGREGATE BASE	0.250 LB/SQ FT
MILLED HMA OR PCC (TACK COAT)	0.080 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.080 LB/SQ FT
TACK COAT (BETWEEN LIFTS)	0.040 LB/SQ FT

- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. SEEDING, CLASS 2 (SPECIAL) = 0.5 ACRES
- THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE VEGETATIVE SUSTAINING SOIL CLEAR OF ROCKS AND DEBRIS SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE ROAD SHALL BE CLOSED TO ALL TRAFFIC DURING CONSTRUCTION.
- ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

### PAVEMENT DESIGN (MECHANISTIC)

DESIGN PERIOD 20 YEARS  
STRUCTURAL DESIGN TRAFFIC (SDT) = 2038 ( 453 )  
PV = 376 SU = 30 MU = 21  
ROAD/STREET CLASSIFICATION: CLASS III  
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE  
P = 50% S = 50% MU = 50%  
TRAFFIC FACTOR ACTUAL TF 0.11

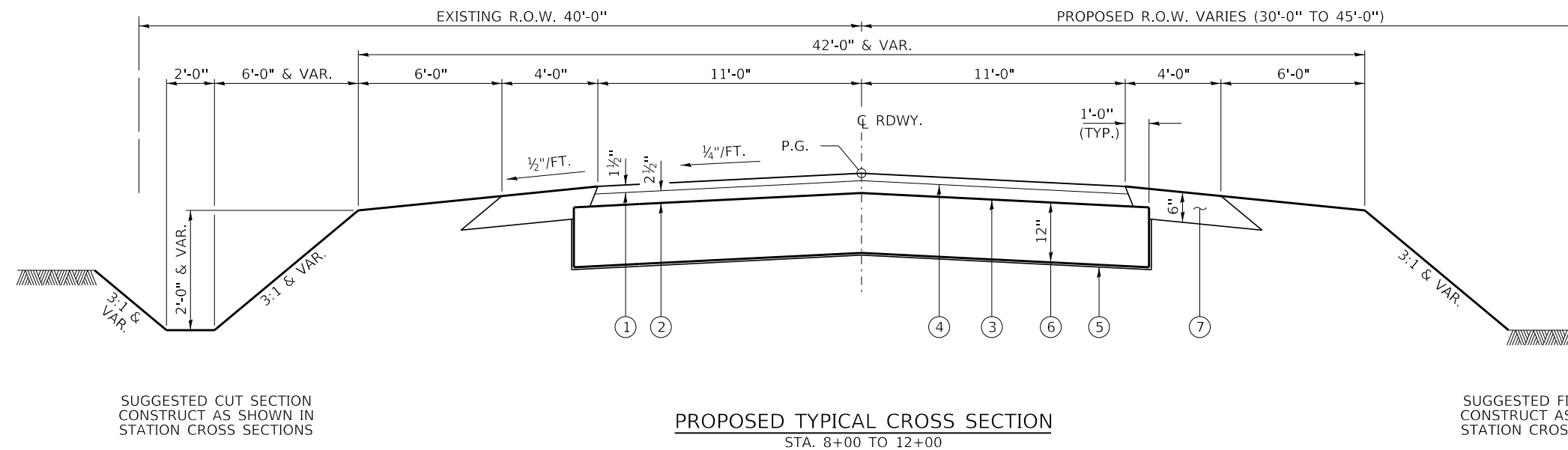
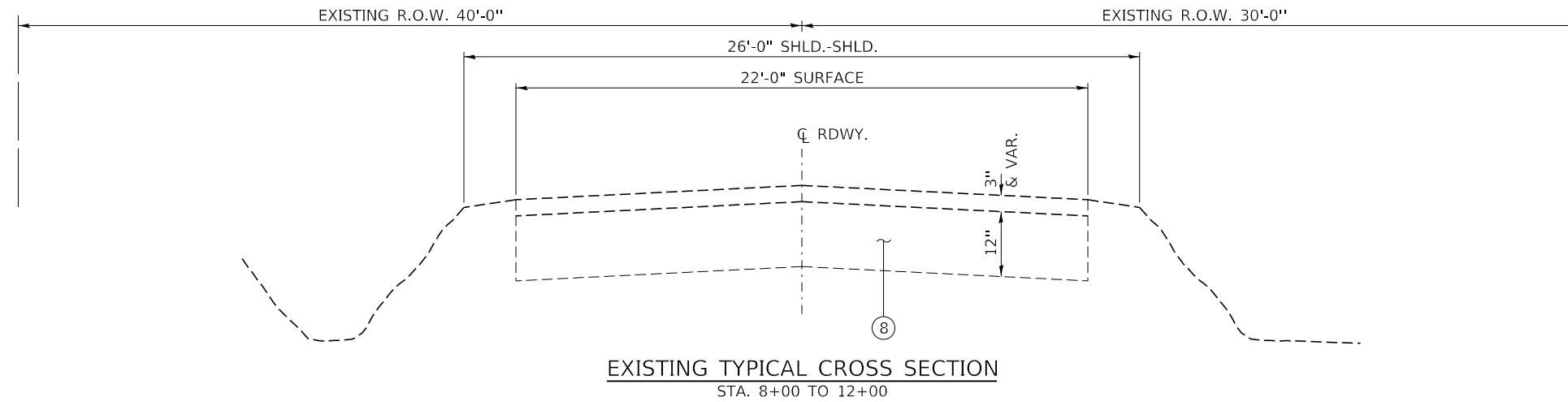
ROADWAY SCHEDULE									
LOCATION	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	AGGREGATE BASE COURSE TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE IL 9.5 , N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	AGGREGATE SHOULDERS TYPE B	POROUS GRANULAR EMBANKMENT SPECIAL	POROUS GRANULAR BACKFILL SPECIAL
OSCEOLA ROAD / CH 8 / FAS 1193	21001000	35100100	40600275	40600295	40603210	40603510	48101200	X2070302	X2090210
	SQ YD	TON	POUND	POUND	TON	TON	TON	TON	CU YD
STA 8+00 TO STA 12+00	1156	729	2200	352	137	82	95	750	40
TOTAL	1156	729	2200	352	137	82	95	750	40

PAVEMENT MARKING SCHEDULE		
LOCATION	PAINT PAVEMENT MARKING	
	4" SINGLE WHITE EDGE LINE	4" DOUBLE YELLOW CENTERLINE
OSCEOLA ROAD / CH 8 / FAS 1193	78001110	78001110
CL STA 8+00 TO STA 12+00	800	800
SUBTOTAL	800	800
TOTAL	1600	

WOVEN WIRE FENCE, 4'		
LOCATION		FOOT
LT. STA 8+00 TO 11+00		300
RT. STA 8+00 TO 12+00		415
TOTAL		715

EARTHWORK SUMMARY							
LOCATION	EARTH EXCAVATION	MISC EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) / SHORTAGE (-)
	20200100				CU YD		CU YD
OSCEOLA ROAD / CH 8 / FAS 1193	CU YD	CU YD			CU YD	CU YD	CU YD
STA 8+00.00 TO STA 13+50	458		25.00%	100.00%	344	843	-499
EXCAVATION FROM STRUCTURE		440	25.00%	70.00%	231		231
TOTAL	458	440			575	843	-268
USE	460						-270

FURNISHED EXC = 270 CU.YD.



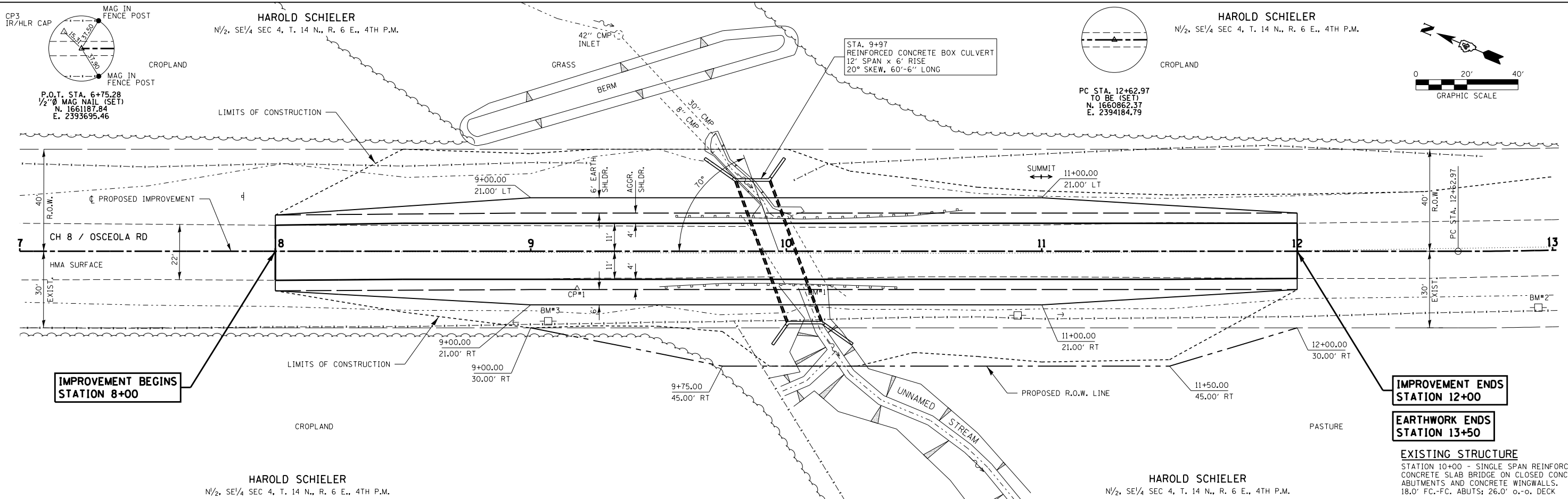
NOTE:  
TRANSITIONS FROM THE PROPOSED SHOULDERS TO THE EXISTING SHOULDERS ARE TO BE CONSTRUCTED FROM STA. 8+00 TO 9+00 AND STA. 11+00 TO 12+00.

**LEGEND**

- ① POLYMERIZED HMA SURFACE COURSE, MIX C, N50 (1½" THICKNESS)
- ② POLYMERIZED HMA BINDER COURSE, IL-9.5, FG N50 (2½" THICKNESS)
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑥ AGGREGATE BASE COURSE, TYPE A (12")
- ⑦ AGGREGATE SHOULDERS, TYPE B (6")
- ⑧ EXISTING OIL & CHIP SURFACE (3") ON AGGREGATE BASE (12")

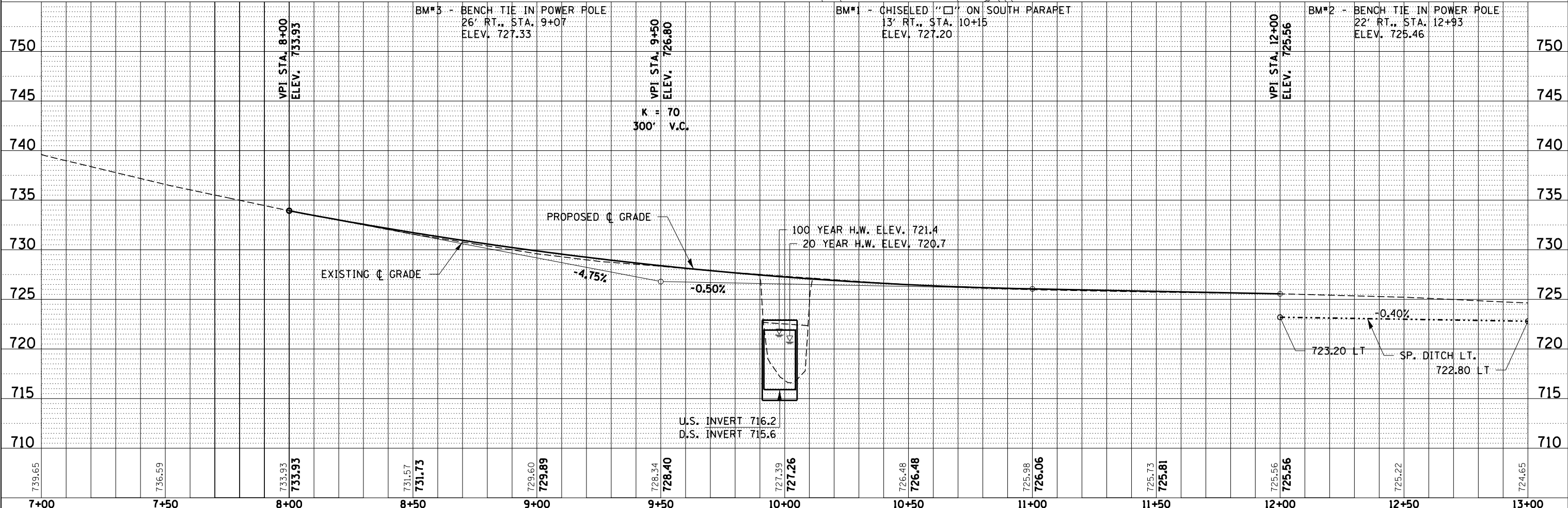
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DRAWN - R.D.H. CHECKED - S.W.M. PLOT DATE = 1/19/2018						1193	14-00178-00-DR	STARK	19	4
DATE - 12/21/17 PLOT SCALE = *SCALE*						C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736		
					SCALE:	SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959						ILLINOIS FED. AID PROJECT GKF1161B				



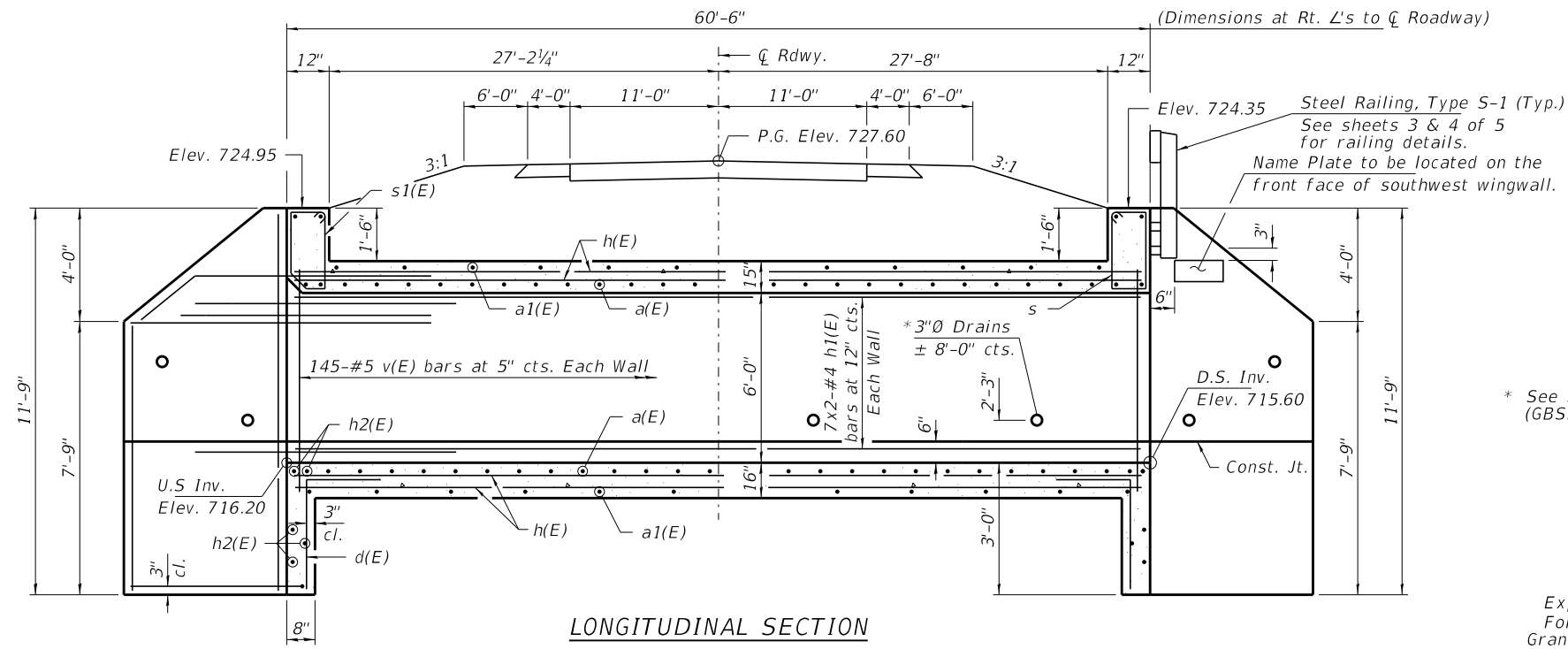


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	NO.		
	NO.		
	NO.		

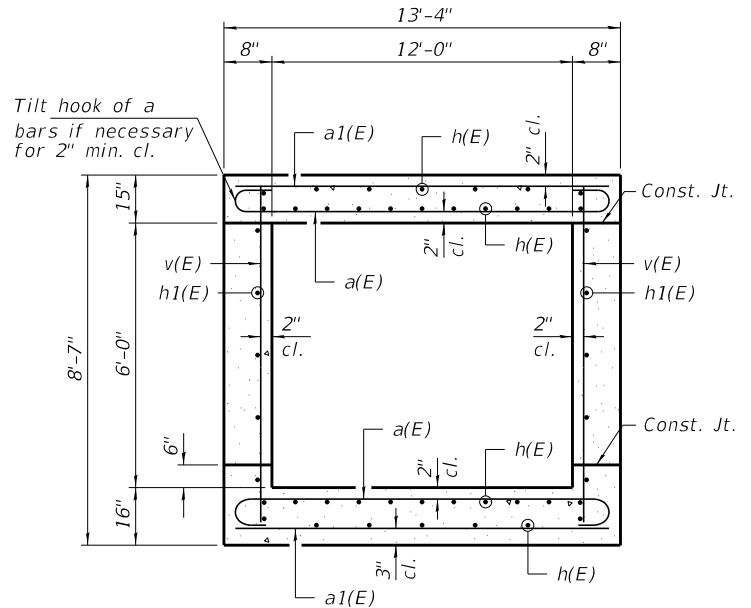
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOTATIONS CHECKED		
	NO.		
	NO.		
	NO.		



FILE NAME = 150251-sht-p&p.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>STARK COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE</b> SCALE: 20H:5V    SHEET NO. 1 OF 1 SHEETS    STA. 7+00.00 TO STA. 13+00.00	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -			1193	14-00178-00-BR	STARK	26	5
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -			C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DATE = 12/21/17	REVISED -			ILLINOIS FED. AID PROJECT GKF11618				



**LONGITUDINAL SECTION**  
(Dimensions at Rt. L's to C Roadway)



**SECTION THRU BARREL**

\* See Special Provisions (GBSP 77)

**NOTES**

- Exposed edges shall be beveled 3/4".
- For backfilling and embankment, see Standard Specifications, except that Porous Granular Embankment shall be placed as shown in backfill detail for the full length of the culvert.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
- It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.
- All construction joints shall be bonded.
- Precast concrete box culverts will not be allowed.
- All bars shall be epoxy coated.
- Bars indicated thus 13x2-#6 etc. indicates 13 lines of bars with 2 lengths per line.
- A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

**INDEX OF STRUCTURE SHEETS**

- 1-3. Culvert Details
- 4. Steel Railing, Type S-1
- 5. Borings

**MIN. BAR LAP**

- #4 = 2'-7"
- #6 = 3'-10"

**DESIGN STRESSES**

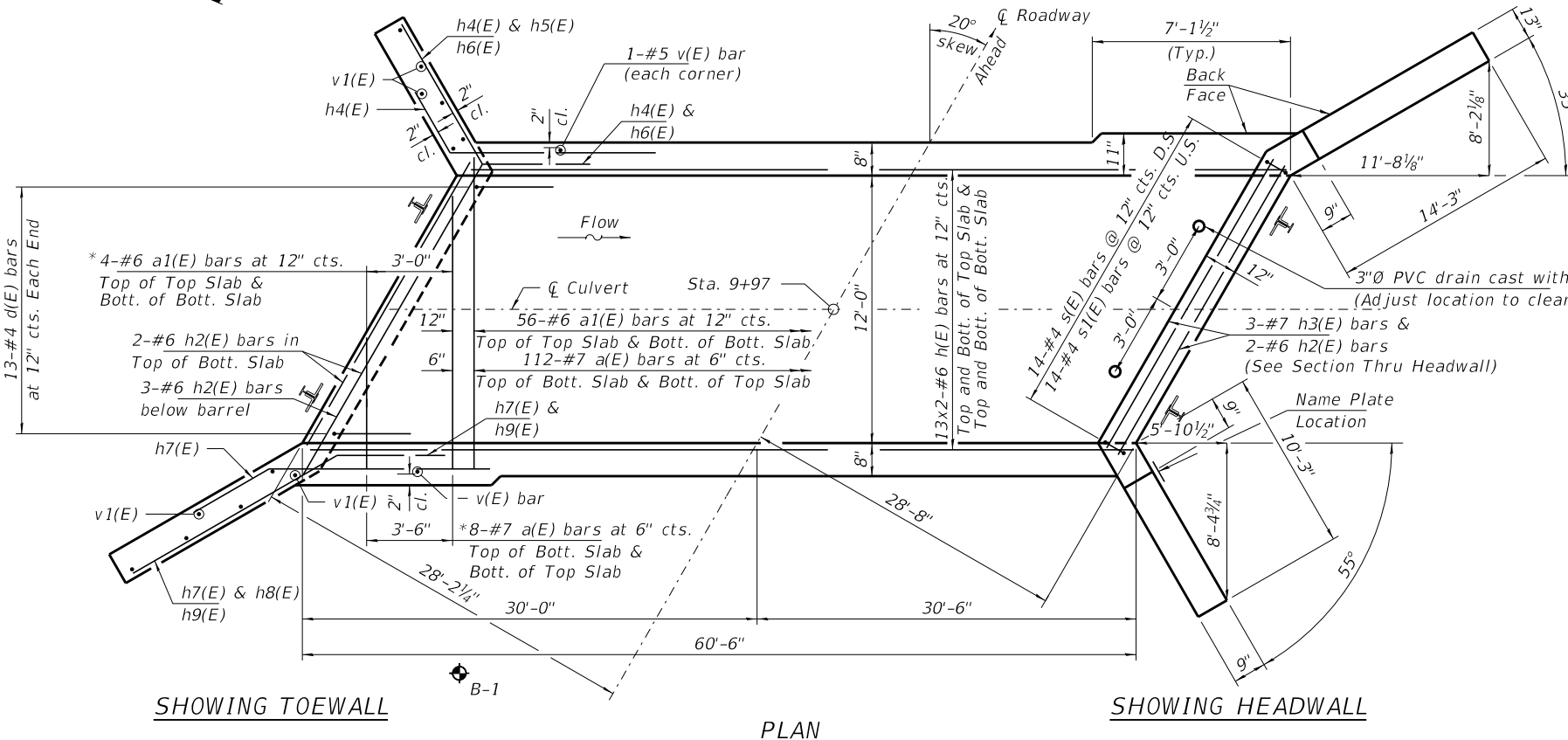
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinf.)

**LOADING HL-93**

Design Specifications: 2014 AASHTO LRFD with all interims.  
50#/Sq. Ft. included in dead load for future wearing surface.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	240	#7	14'-8"	U
a1(E)	120	#6	13'-0"	—
d(E)	26	#4	4'-5"	L
h(E)	104	#6	32'-1"	—
h1(E)	28	#4	31'-5"	—
h2(E)	14	#6	12'-10"	—
h3(E)	6	#7	12'-10"	—
h4(E)	24	#5	8'-0"	—
h5(E)	10	#7	13'-0"	—
h6(E)	14	#7	13'-3"	—
h7(E)	24	#5	8'-0"	—
h8(E)	10	#8	16'-3"	—
h9(E)	14	#8	18'-0"	—
s(E)	14	#4	7'-3"	□
s1(E)	14	#4	7'-1"	□
v(E)	294	#5	8'-3"	—
v1(E)	38	#4	11'-5"	—
Porous Granular Embankment, Special			Ton	750
Stone Dumped Riprap, Class A4			Sq. Yd.	90
Reinf. Bars, Epoxy Coated			Pound	20,750
Name Plates			Each	1
Concrete Box Culverts			Cu. Yd.	115.6
Membrane Waterproofing			Sq. Yd.	107
Porous Gran. Backfill, Spl.			Cu. Yd.	40



**SHOWING TOEWALL**

**PLAN**

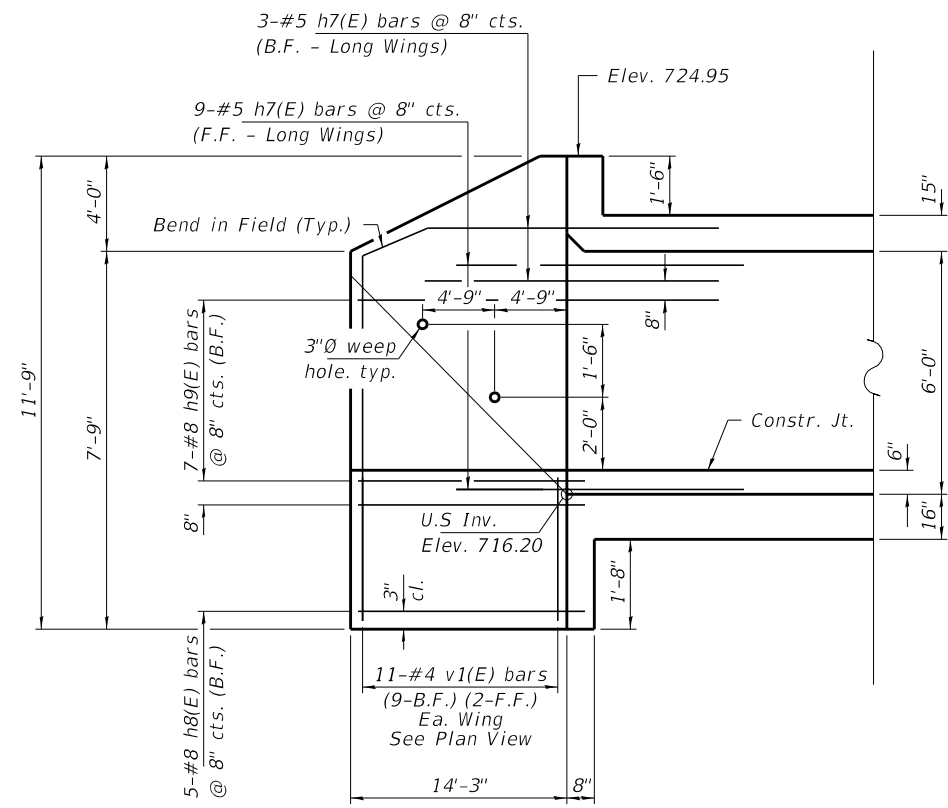
**SHOWING HEADWALL**

I certify that to the best of my knowledge, information and belief, this culvert 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."

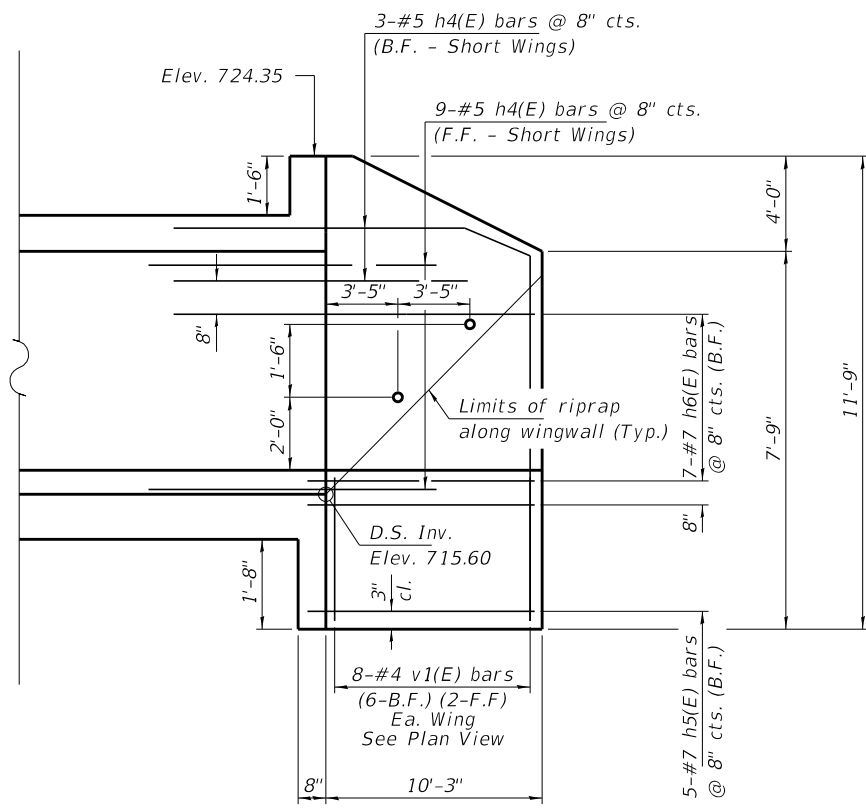
*Steven W. Megginson* 12/20/2017  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



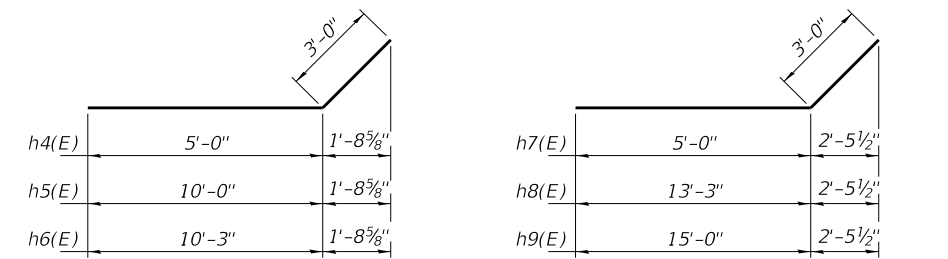
Expires 11-30-2018



NORTHWEST AND SOUTHEAST WINGWALL ELEV. - (LONG WING)

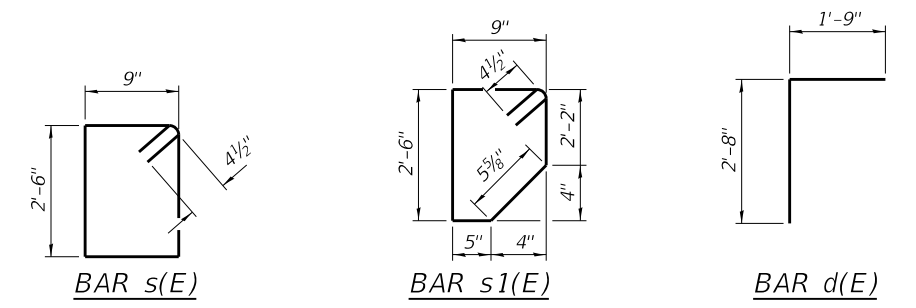


NORTHEAST AND SOUTHWEST WINGWALL ELEV. - (SHORT WING)



BARS h4(E), h5(E) & h6(E)

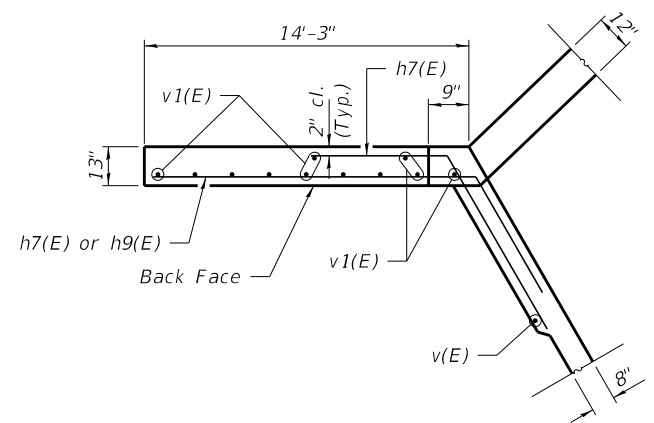
BARS h7(E), h8(E) & h9(E)



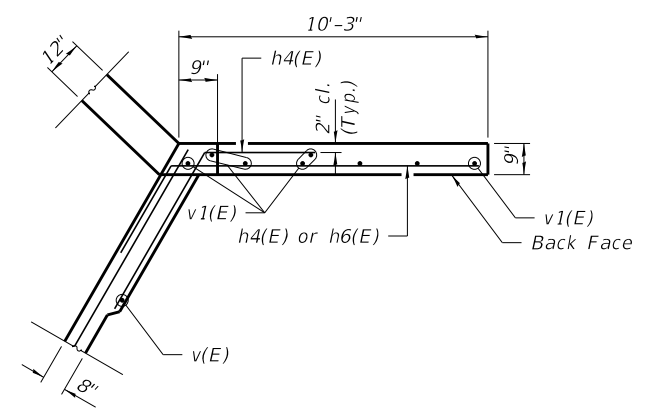
BAR s(E)

BAR s1(E)

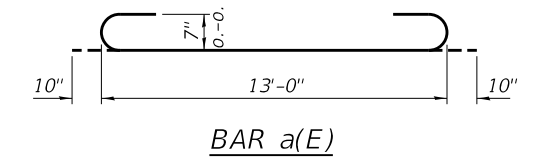
BAR d(E)



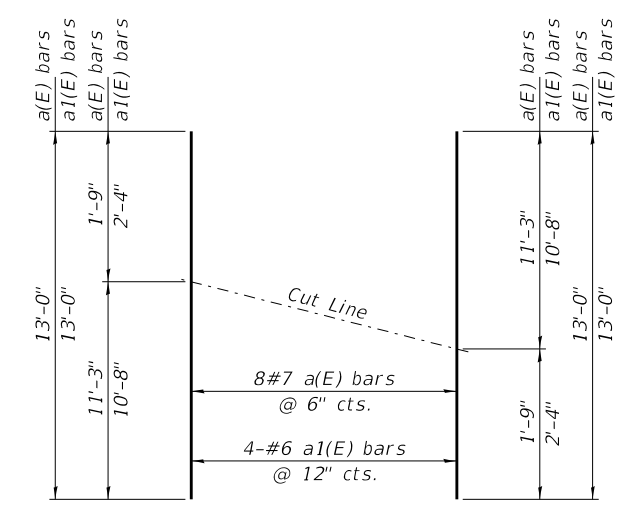
NORTHWEST AND SOUTHEAST WINGWALL UPPER PLAN - (LONG WING)



NORTHEAST AND SOUTHWEST WINGWALL UPPER PLAN - (SHORT WING)

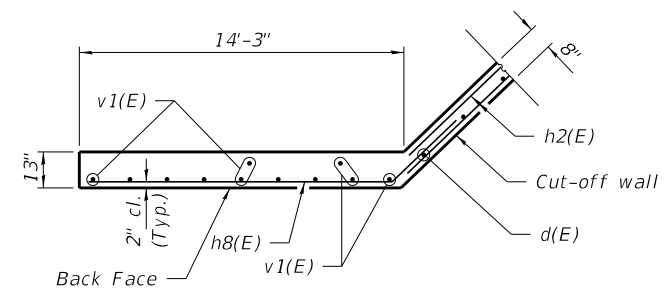


BAR a(E)

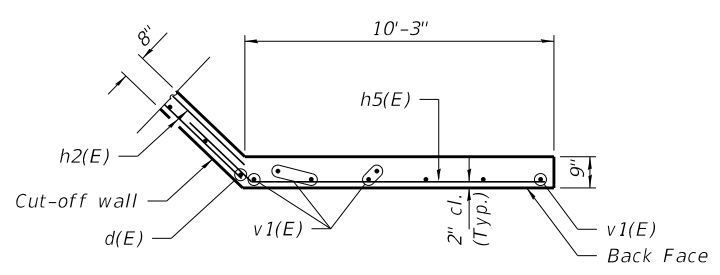


CUTTING DIAGRAM

Order a(E) and a1(E) bars full length. Cut as shown and use the remainder in opposite end of culvert.



NORTHWEST AND SOUTHEAST WINGWALL LOWER PLAN - (LONG WING)

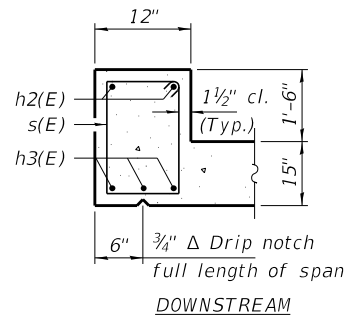
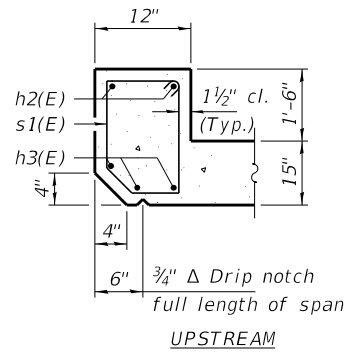


NORTHEAST AND SOUTHWEST WINGWALL LOWER PLAN - (SHORT WING)

NOTES

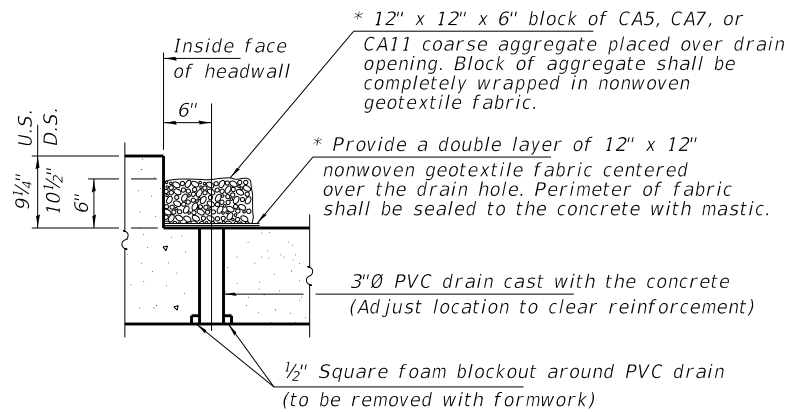
1. For Bill of Material and reinforcement bars summary see sheet 1 of 4.
2. B.F. denotes Back Face and F. F. denotes Front Face.

FILE NAME = 150251-sht-culvert.dgn	USER NAME = rhosick	DESIGNED - R.D.H.	REVISED -	<b>STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT</b>	<b>CULVERT DETAILS</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - S.W.M.	REVISED -			1193	14-00178-00-BR	STARK	26	7
PLOT DATE = 1/19/2018		DRAWN - R.D.H.	REVISED -			C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 2 OF 5 SHEETS		ILLINOIS FED. AID PROJECT GKF11618		



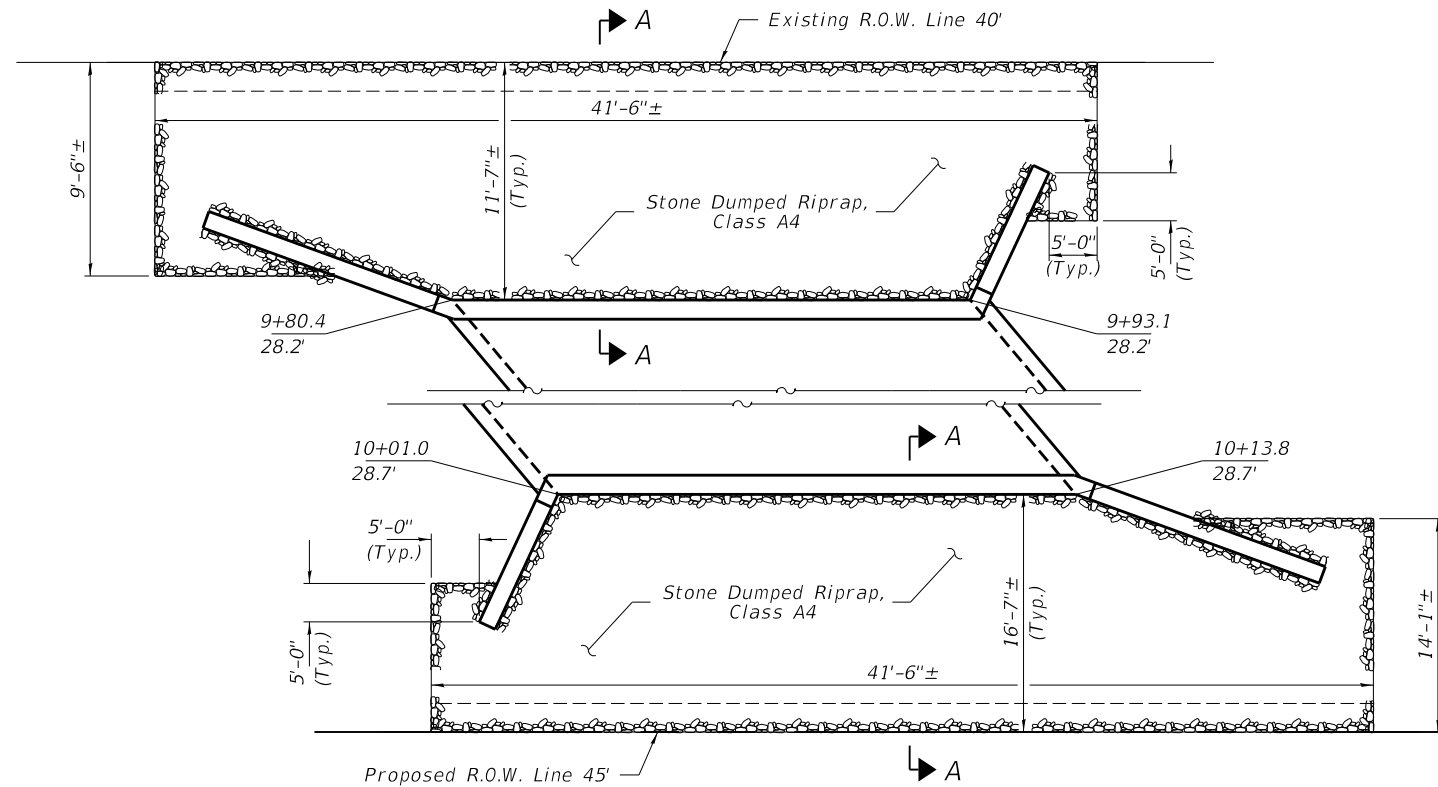
**SECTION THRU HEADWALL**

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

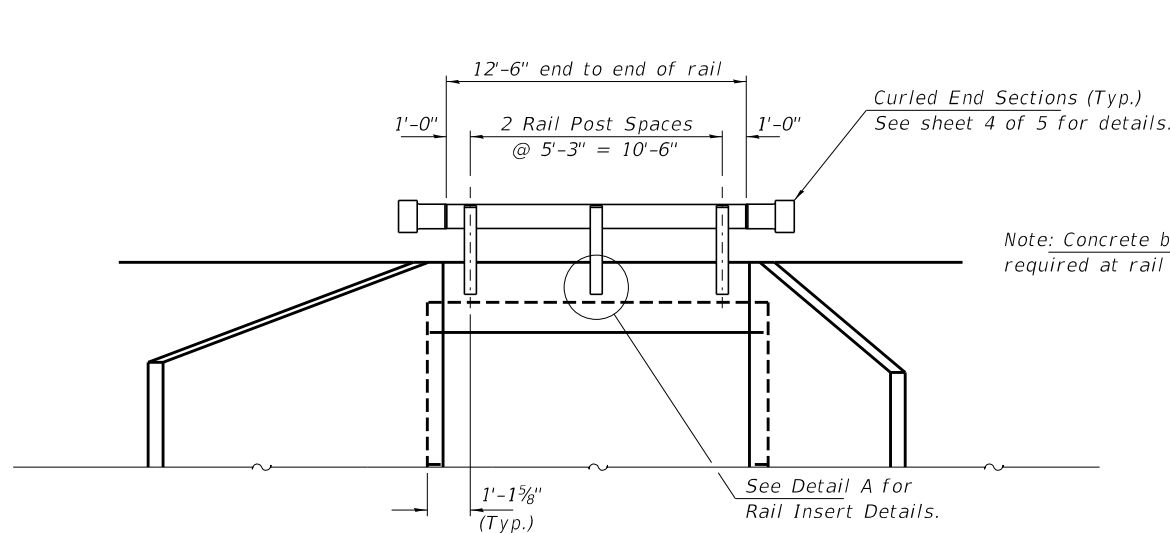


**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

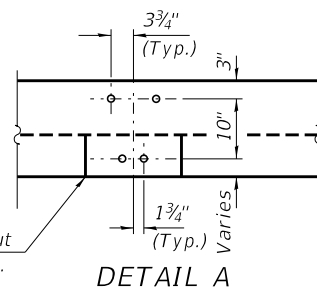


**RIPRAP LAYOUT**



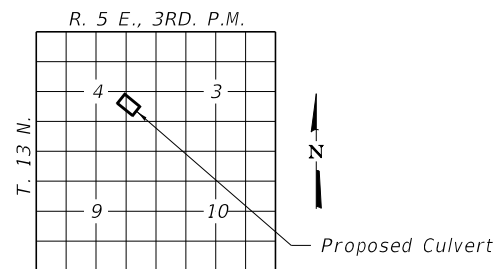
**ELEVATION**

Showing Rail Post Spaces  
See sheet 4 of 5 for Railing Details.



**DETAIL A**

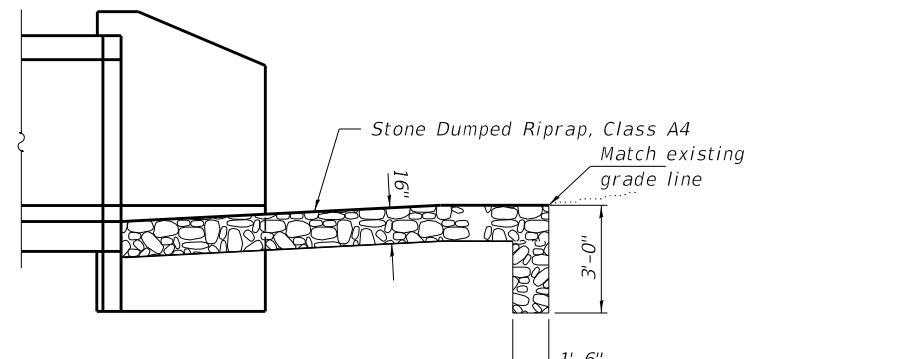
Note: Concrete blockout required at rail posts.



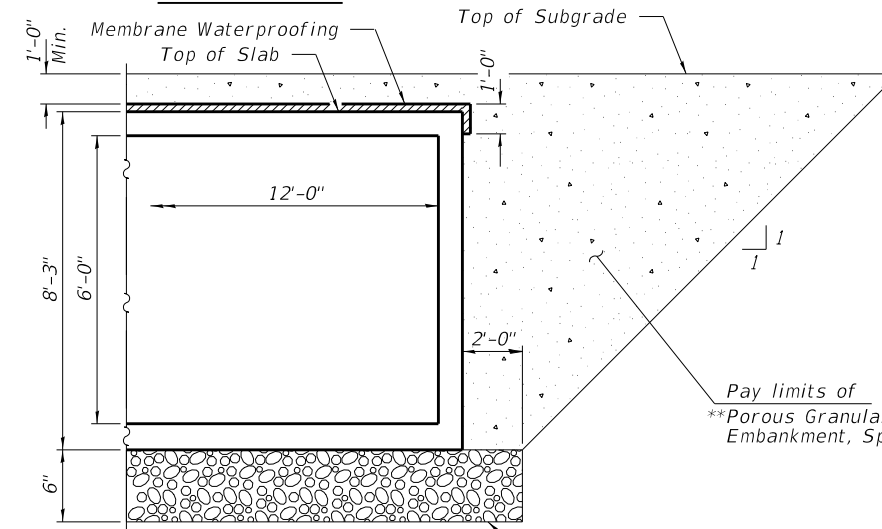
**LOCATION SKETCH**

BUILT 201\_ BY  
STARK COUNTY  
SEC. 14-00178-00-BR  
C.H. 8 / OSCEOLA ROAD  
LOADING HL-93

**NAME PLATE**  
See Std. 515001



**SECTION A-A**



**BACKFILL DETAIL**

\*\* P.G.E to extend the full length of culvert and wings. 18" earth cap to be placed at end of wings to cover the P.G.E.

**WATERWAY INFORMATION**

Drainage Area = 0.23 Sq. Mi. Existing Low Grade Elev. 724.6 @ Sta. 13+00  
Proposed Low Grade Elev. 724.6 @ Sta. 13+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	210	37	43	720.30	0.34	0.00	720.64	720.30
Design	20	270	44	48	720.70	0.38	0.00	721.08	720.70
Base	100	422	55	56	721.36	0.77	0.34	722.13	721.70
Max. Calc.	500	590	62	61	721.78	1.76	1.59	723.54	723.37

10 Year Velocity through Existing Bridge = 5.7 fps      10 Year Velocity through Proposed Bridge = 4.9 fps

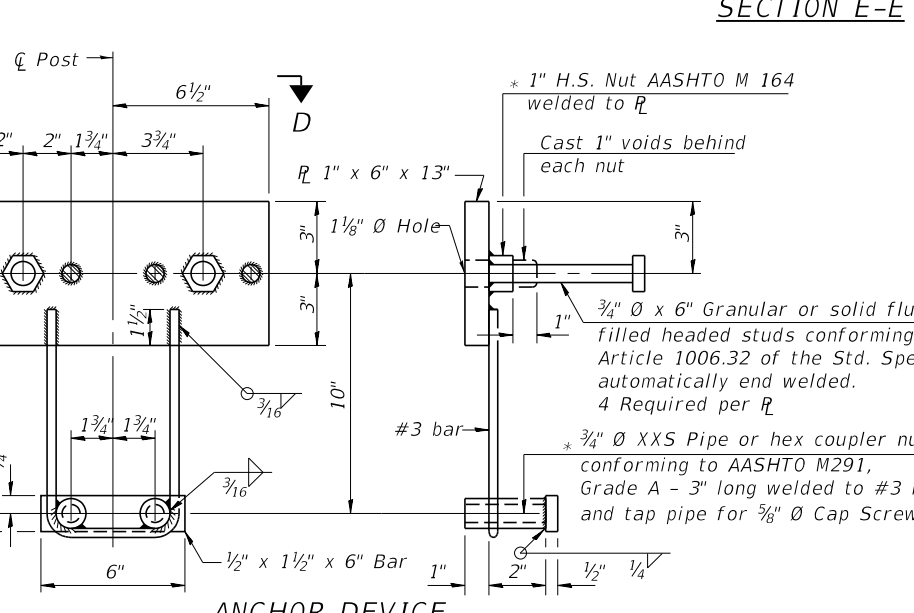
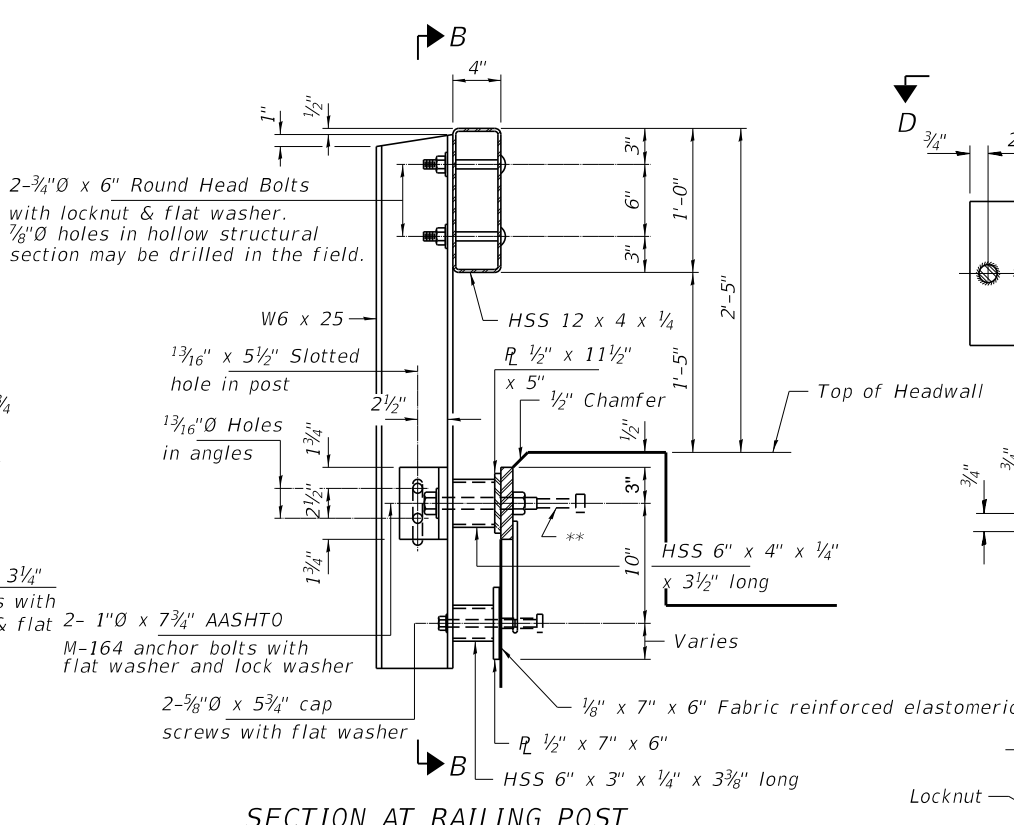
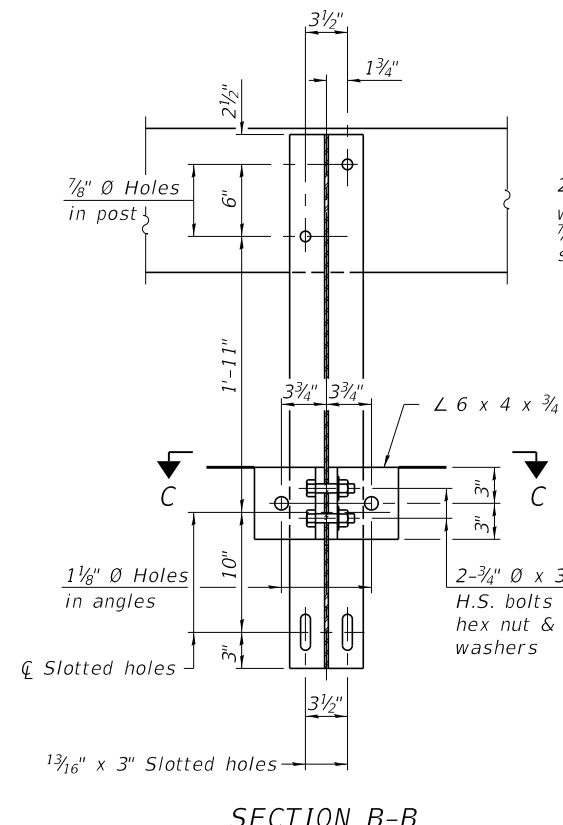
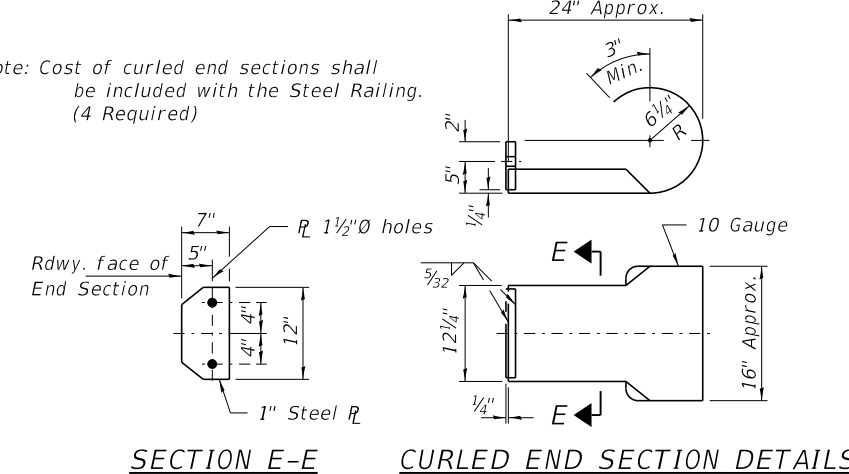
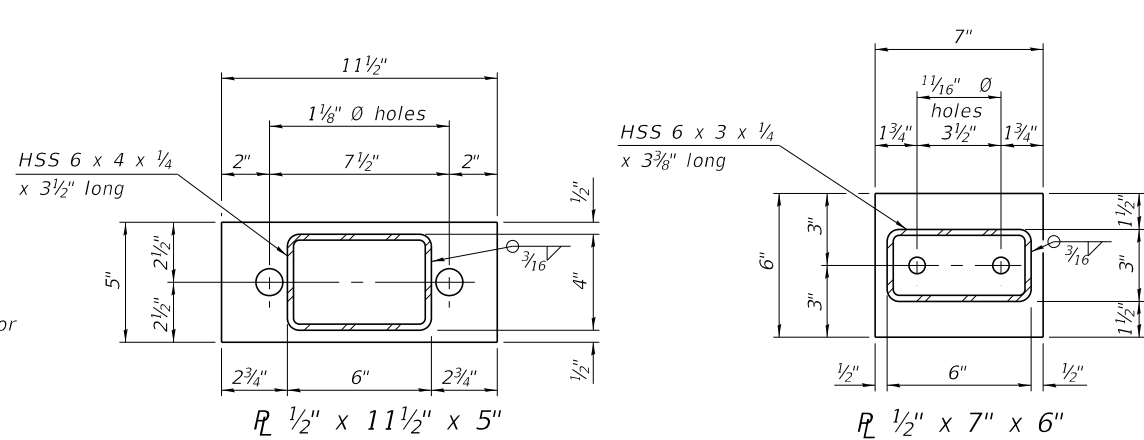
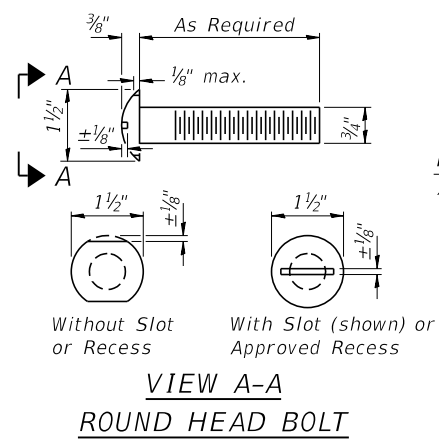
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PLOT DATE = 1/19/2018		DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

**STATE OF ILLINOIS**  
**STARK COUNTY HIGHWAY DEPARTMENT**

**CULVERT DETAILS**

SHEET NO. 3 OF 5 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	8
C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736		
ILLINOIS FED. AID PROJECT GKF116181				

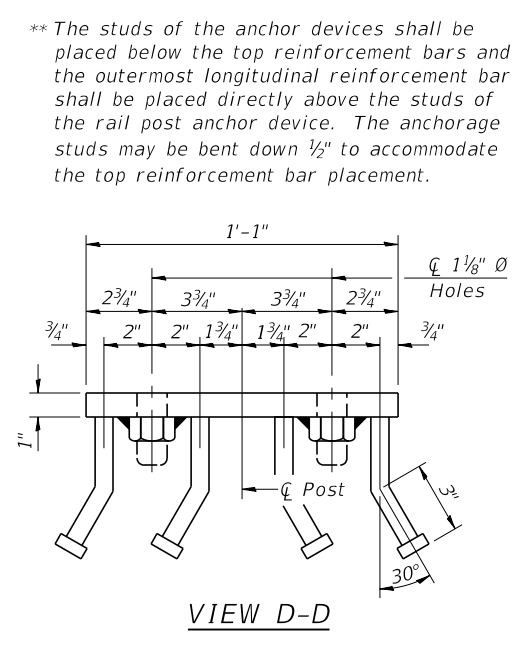
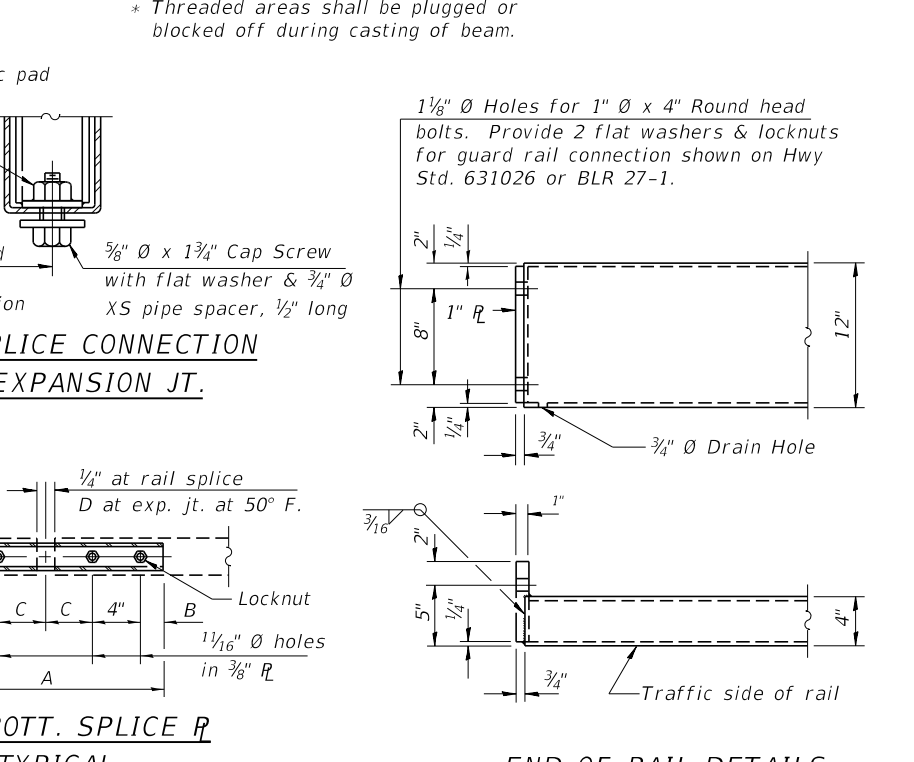
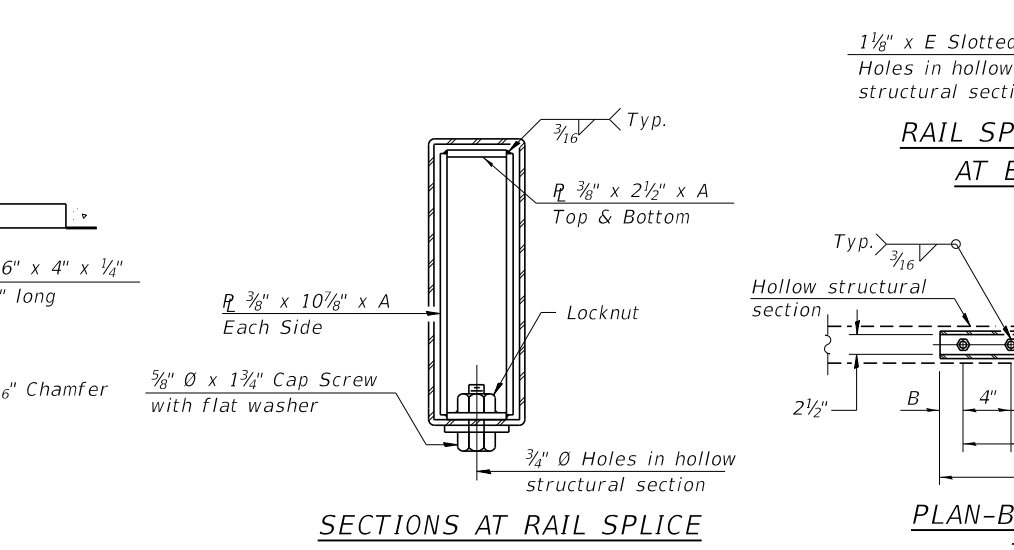
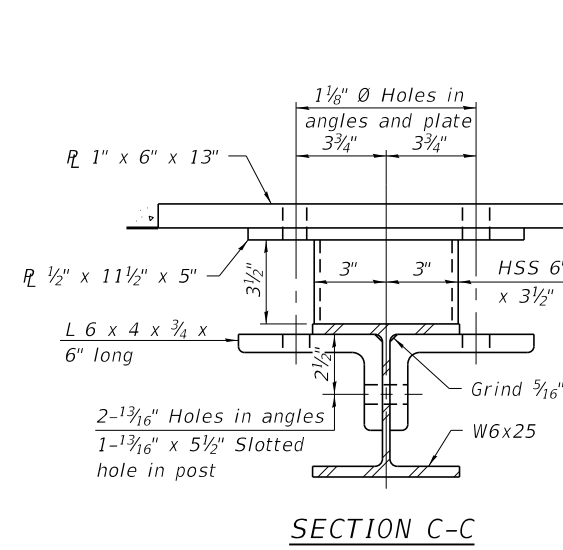


**SPLICE DIMENSIONS**

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

Notes:  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.  
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	25



**Illinois Department of Transportation**  
Division of Highways  
Whitney & Associates

**SOIL BORING LOG**

Page 1 of 2

Date 8/14/15

ROUTE CH 8 DESCRIPTION Osceola Township Road District LOGGED BY Fehl  
SECTION 14-00178-00-BR LOCATION Stark County, SEC. 4, TWP. T14N, RNG. R6E, 4<sup>th</sup> PM,  
Latitude , Longitude  
COUNTY Stark DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME 55 Automatic

STRUCT. NO.	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ ft	D E P T H	B L O W S	U C S	M O I S T	Stream Bed Elev. _____ ft
BORING NO. <u>B-01</u>					Groundwater Elev.:					
Station <u>9+80</u>					First Encounter <u>58.8</u> ft					
Offset <u>5.0 ft Left</u>					Upon Completion <u>None</u> ft					
Ground Surface Elev. <u>98.80 (727.6)</u> (ft)	(ft)	(/6")	(tsf)	(%)	After _____ Hrs.	(ft)	(/6")	(tsf)	(%)	
<u>OIL And CHIPS (3.0")</u>					<u>Very Stiff, Brown And Gray CLAY</u>					
<u>Brown, Fine- To Medium-Grained SAND And GRAVEL (12.0")</u>					<u>LOAM GLACIAL TILL (continued)</u>					
<u>Stiff, Brown And Gray-Brown CLAY LOAM (Fill)</u>					<u>DD = 119 PCF</u>					
					<u>76.8C (705.6)</u>					
					<u>Very Stiff, Gray SILTY CLAY GLACIAL TILL</u>					
					<u>DD = 118 PCF</u>					
					<u>72.3C (701.1)</u>					
					<u>Stiff, Gray-Brown SILTY CLAY LOAM (Fill)</u>					
					<u>DD = 98 PCF</u>					
					<u>71.8C (700.6)</u>					
					<u>Stiff, Black SILTY CLAY With Trace Of Organic Matter</u>					
					<u>DD = 94 PCF</u>					
					<u>68.3C (694.6)</u>					
					<u>Stiff, Gray-Brown CLAY LOAM GLACIAL TILL</u>					
					<u>DD = 118 PCF</u>					
					<u>65.8C (694.6)</u>					
					<u>Very Stiff, Brown And Gray CLAY LOAM GLACIAL TILL</u>					
					<u>DD = 118 PCF</u>					
					<u>60.3C (689.1)</u>					
					<u>Very Stiff, Gray NEAR CLAY SHALE</u>					
					<u>DD = 118 PCF</u>					
					<u>60.3C (689.1)</u>					
					<u>Hard, Gray CLAY SHALE</u>					
					<u>DD = 118 PCF</u>					
					<u>60.3C (689.1)</u>					

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



**Illinois Department of Transportation**  
Division of Highways  
Whitney & Associates

**SOIL BORING LOG**

Page 2 of 2

Date 8/14/15

ROUTE CH 8 DESCRIPTION Osceola Township Road District LOGGED BY Fehl  
SECTION 14-00178-00-BR LOCATION Stark County, SEC. 4, TWP. T14N, RNG. R6E, 4<sup>th</sup> PM,  
Latitude , Longitude  
COUNTY Stark DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME 55 Automatic

STRUCT. NO.	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ ft	D E P T H	B L O W S	U C S	M O I S T	Stream Bed Elev. _____ ft
BORING NO. <u>B-01</u>					Groundwater Elev.:					
Station <u>9+80</u>					First Encounter <u>58.8</u> ft					
Offset <u>5.0 ft Left</u>					Upon Completion <u>None</u> ft					
Ground Surface Elev. <u>98.80 (727.6)</u> (ft)	(ft)	(/6")	(tsf)	(%)	After _____ Hrs.	(ft)	(/6")	(tsf)	(%)	
<u>Hard, Gray CLAY SHALE (continued)</u>					<u>53/6"</u>					
					<u>4.5</u>					
					<u>P</u>					
					<u>71/6"</u>					
					<u>4.5</u>					
					<u>P</u>					
					<u>65/3"</u>					
					<u>4.5</u>					
					<u>P</u>					
					<u>47.80 (628.8)</u>					
					<u>End of Boring</u>					
					<u>60.3C (689.1)</u>					

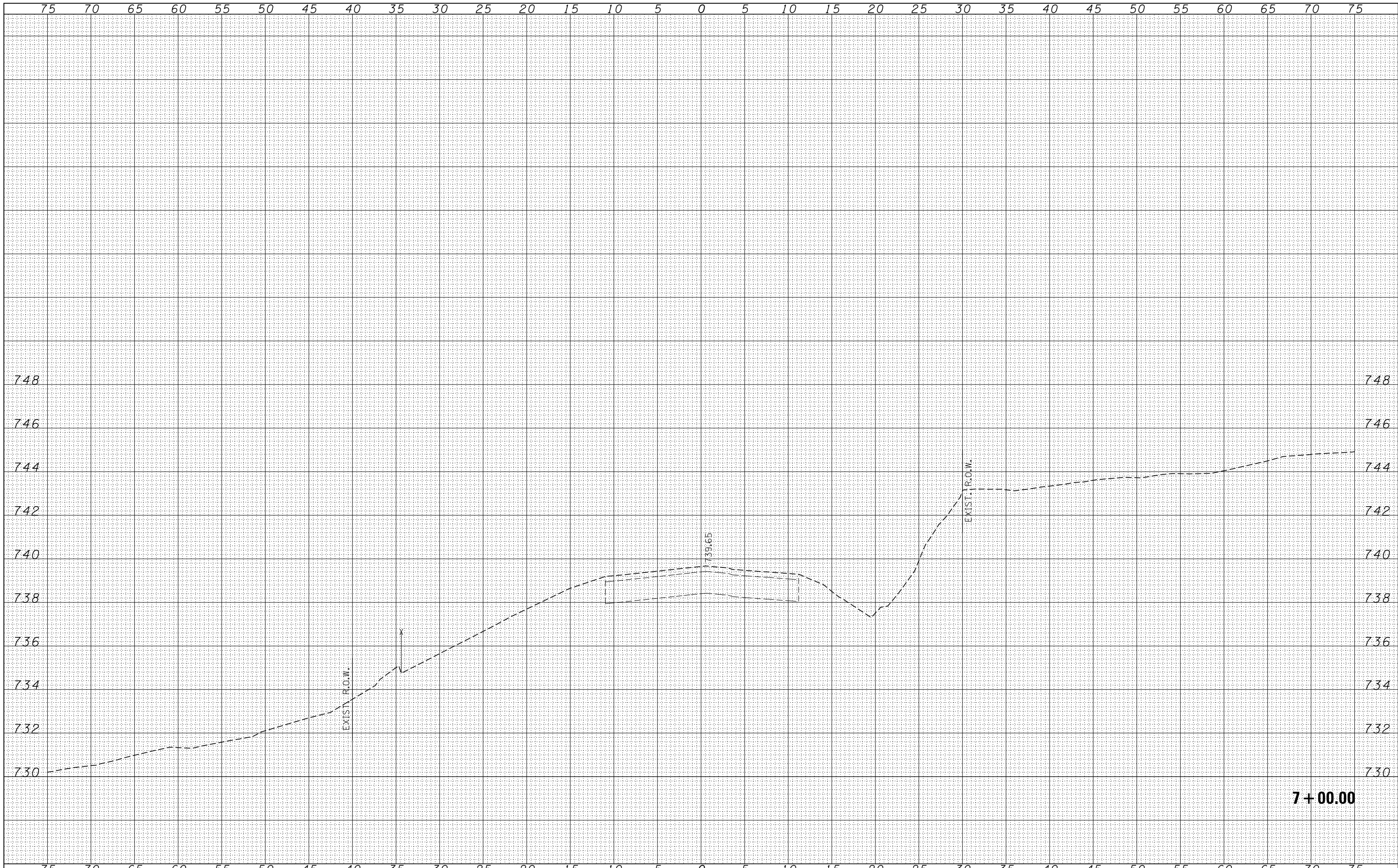
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 8-99)

BORING

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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959		CHECKED - S.W.M.	REVISED -			1193	14-00178-00-BR	STARK	26	10	
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	PLOT DATE = 1/19/2018	CHECKED - S.W.M.	REVISED -			SHEET NO. 5 OF 5 SHEETS		ILLINOIS FED. AID PROJECT GKF11618			

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



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 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME = rhosick  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17

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STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

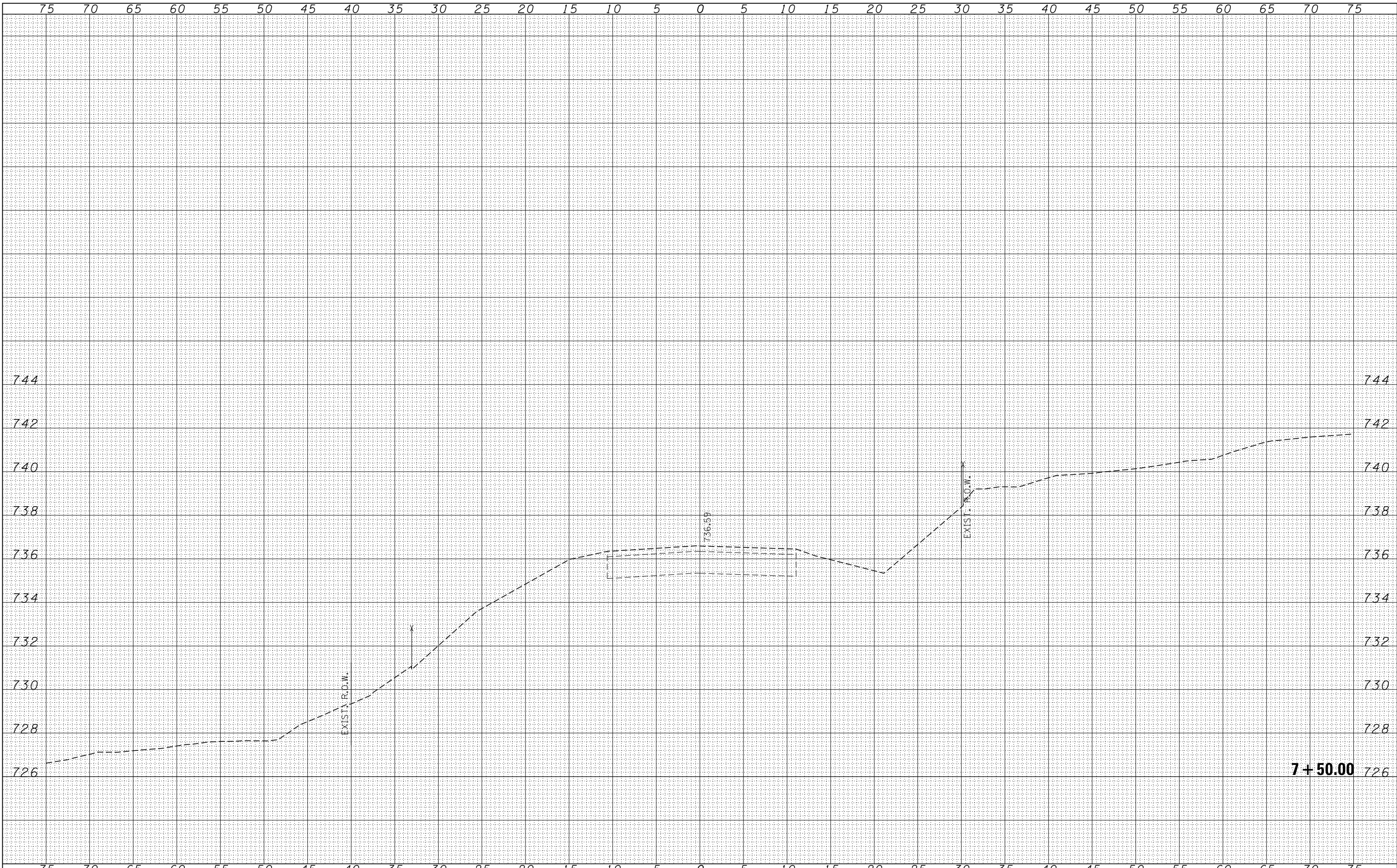
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	11
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				

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FINAL SURVEY NOTE BOOK NO.

DATE
BY
ORIGINAL SURVEY NOTE BOOK NO.
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TEMPLATE
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CHECKED



**7+50.00**

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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000958		DRAWN - T.W.K.	REVISED -
		CHECKED - S.W.M.	REVISED -
		DATE - 12/21/17	REVISED -
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		PLOT DATE = 1/19/2018	

STATE OF ILLINOIS  
STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

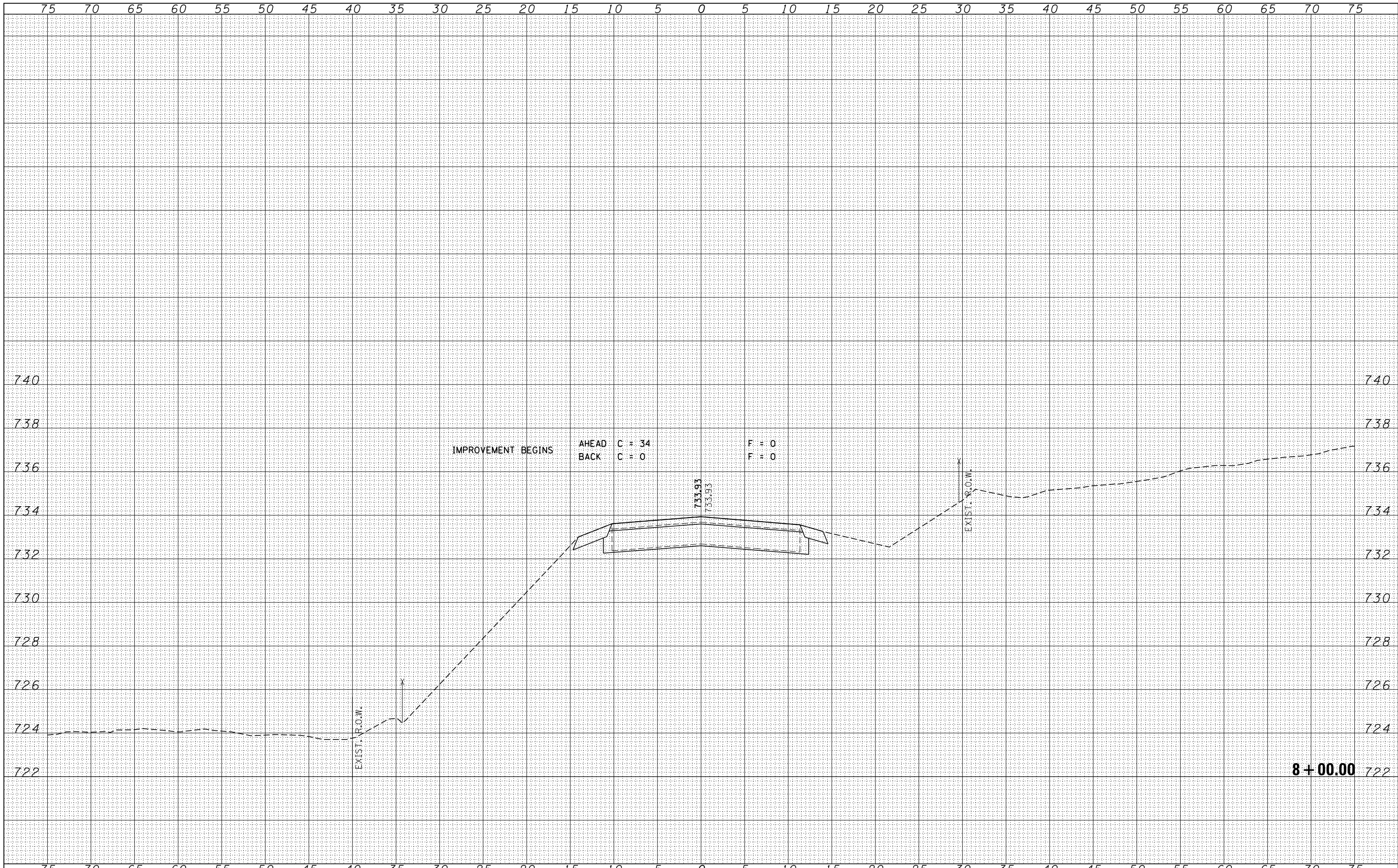
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1193	14-00178-00-BR	STARK	26	12
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				



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 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184-000958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
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 DATE - 12/21/17  
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STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

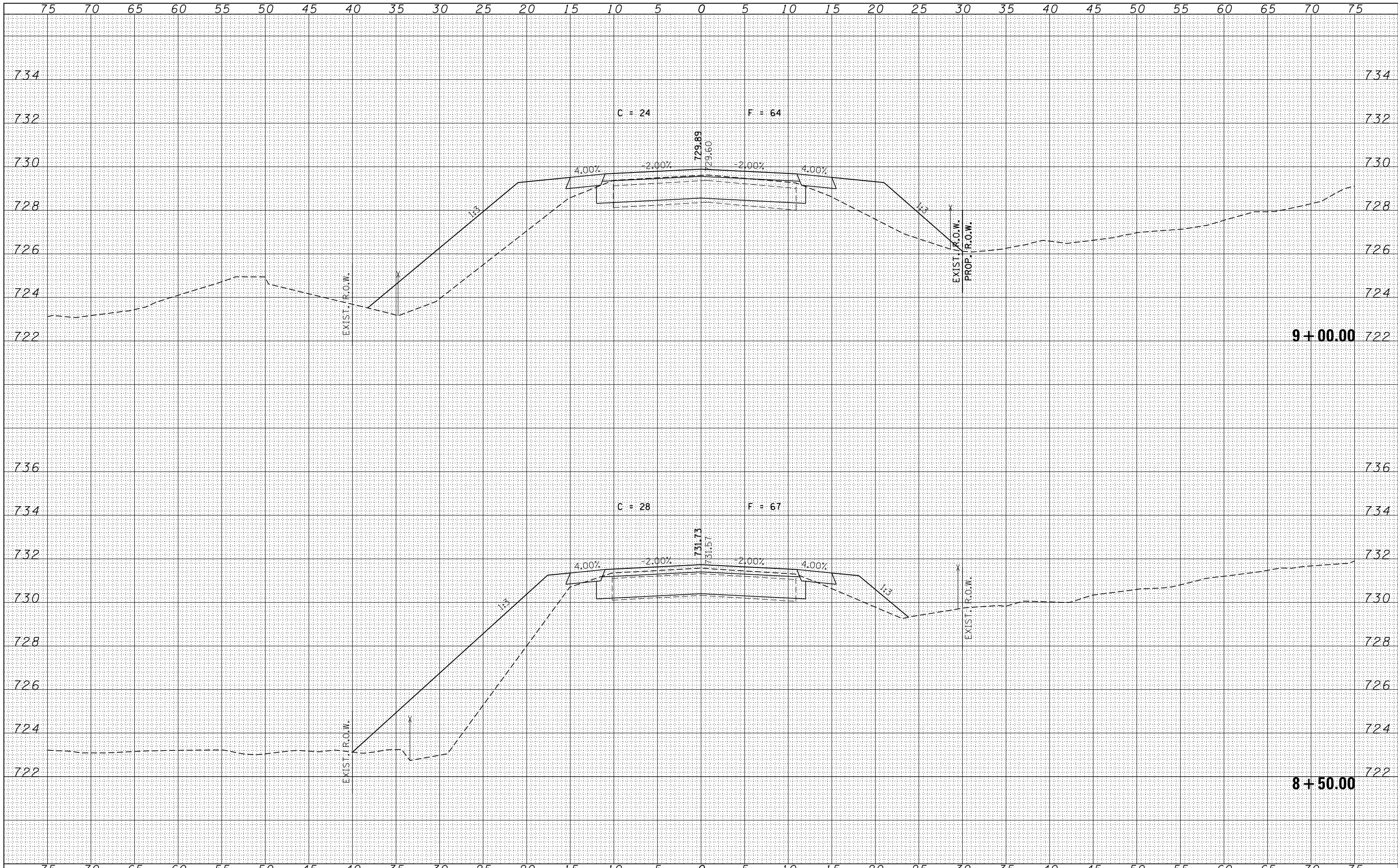
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1193	14-00178-00-BR	STARK	26	13
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF1161B				

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 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

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STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

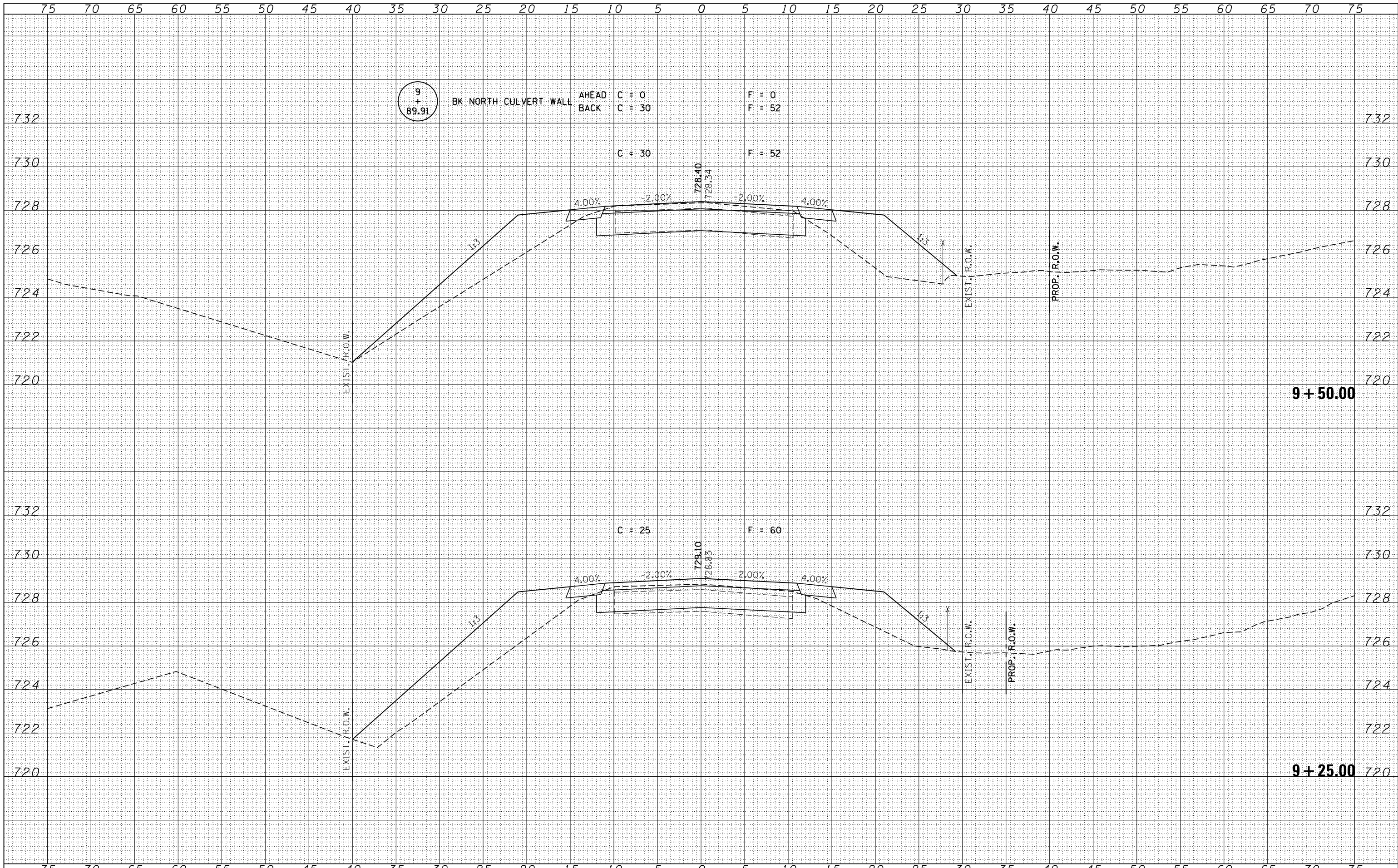
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	14
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	

ILLINOIS FED. AID PROJECT GKF11618

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ORIGINAL SURVEY	
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 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

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STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

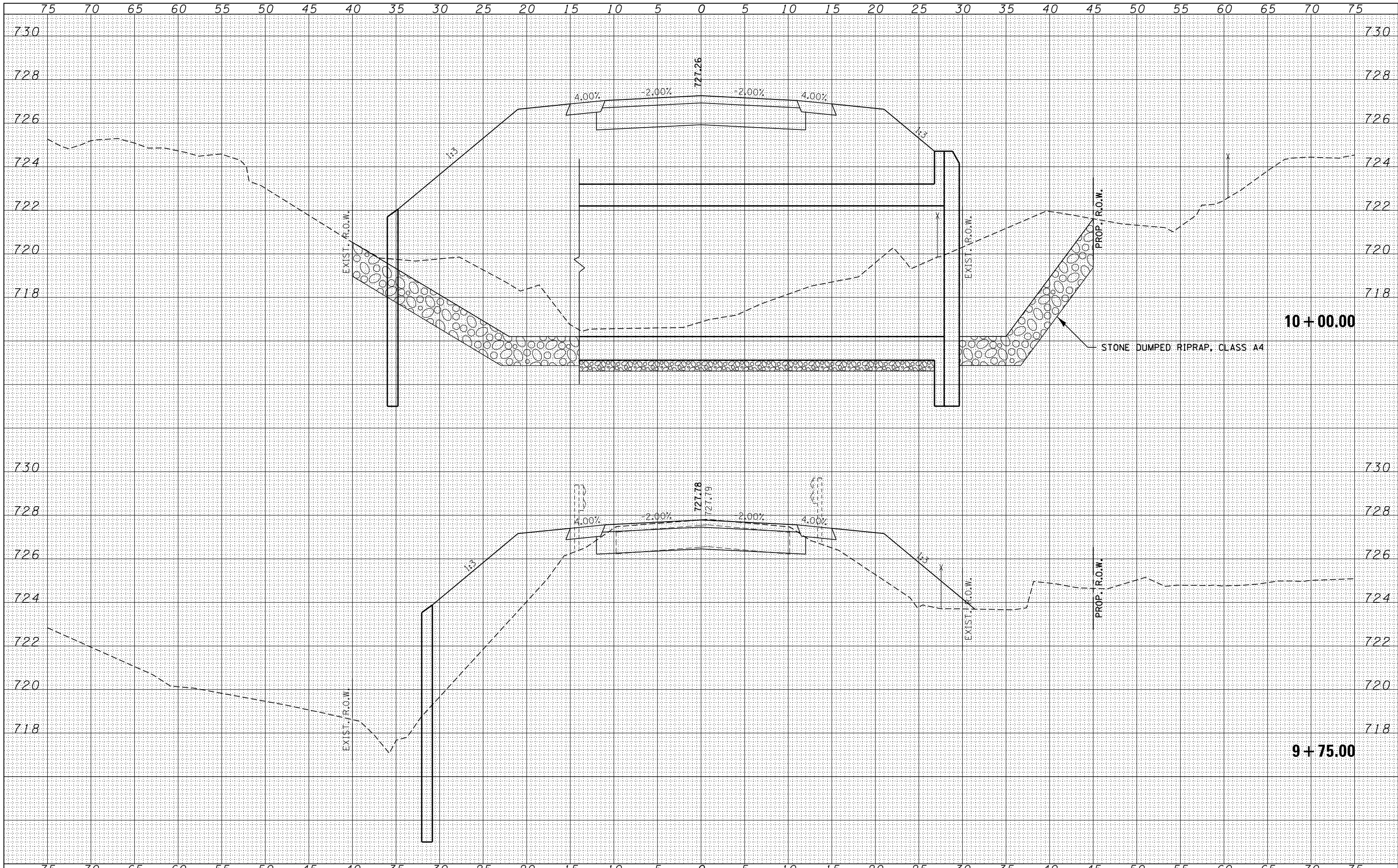
STATION CROSS SECTIONS

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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	15
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME = 150251-sht-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
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USER NAME = rhosick  
 DESIGNED - J.W.F.  
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 DATE - 12/21/17  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

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STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

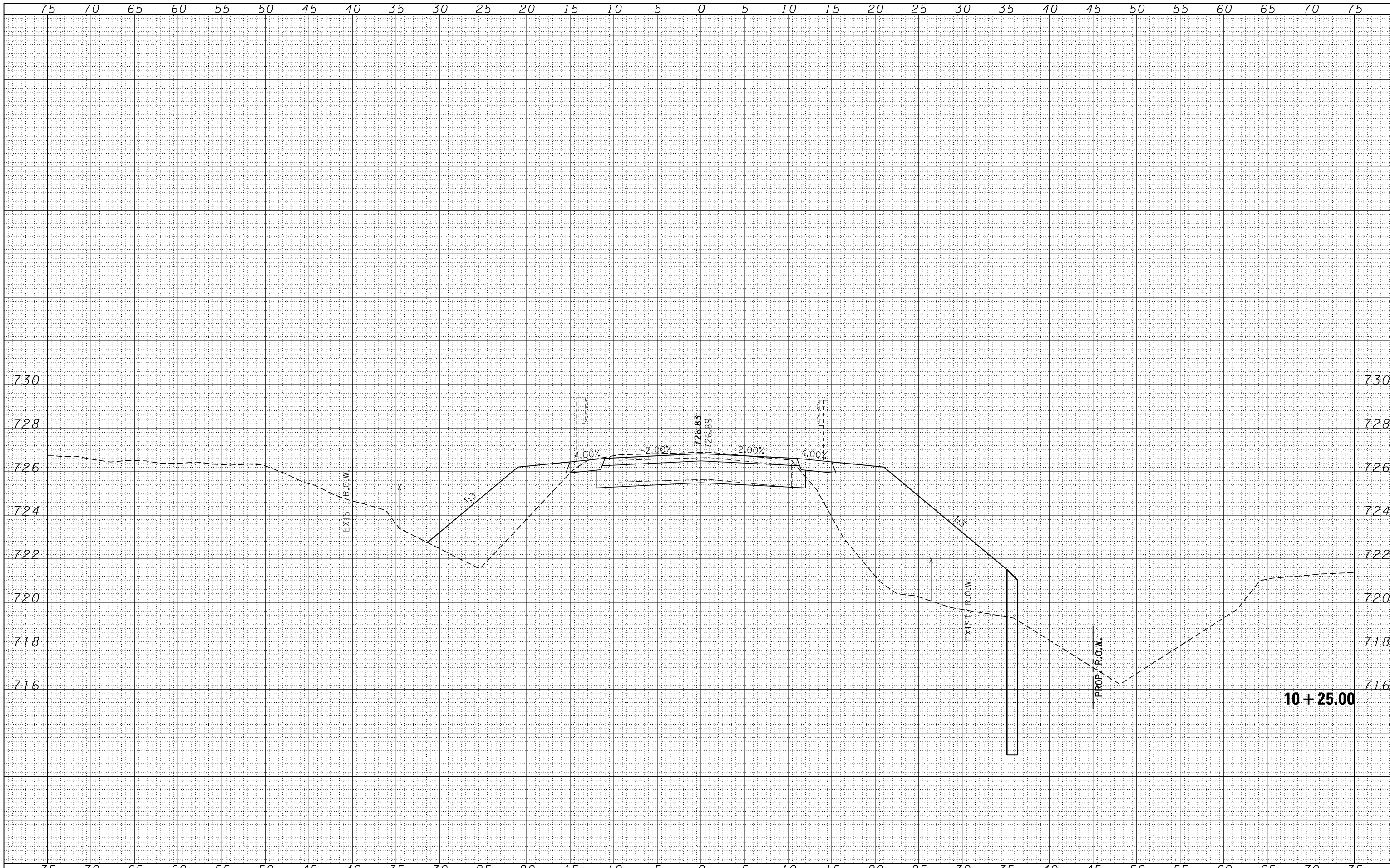
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 6 OF 16 SHEETS STA. 9+75.00 TO STA. 10+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	16
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				

BY	DATE

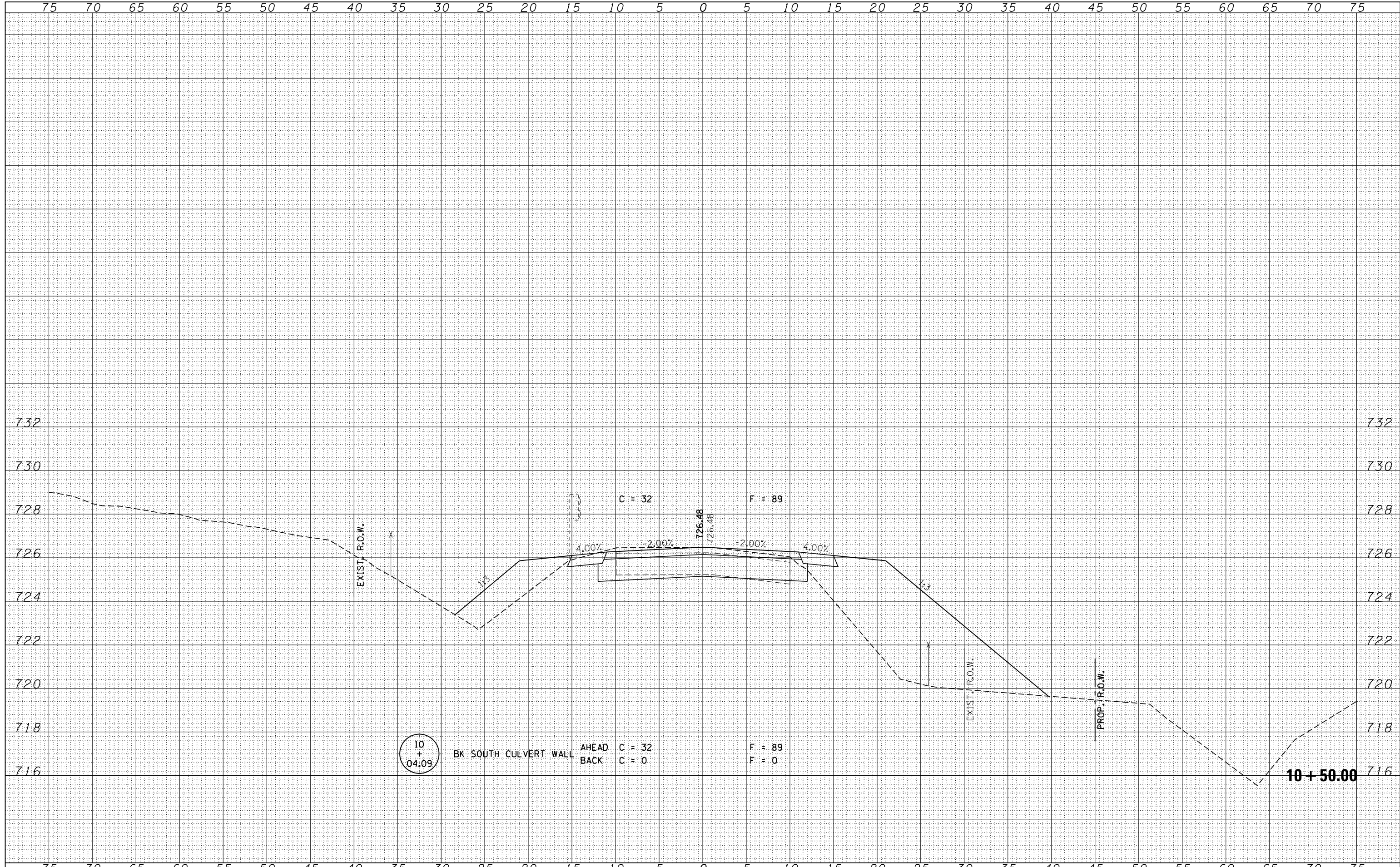
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NOTE BOOK	PLOTTED	
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	CHECKED	



FILE NAME = 150251-sht-sxs.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISIONS	<p align="center"><b>STATE OF ILLINOIS</b>  <b>STARK COUNTY HIGHWAY DEPARTMENT</b></p> <p align="center"><b>STATION CROSS SECTIONS</b></p> <p>SCALE: 5H:2V     SHEET NO. 7 OF 16 SHEETS     STA. 10+25.00 TO STA. 10+25.00</p>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000958		DRAWN - T.W.K.			1193	14-00178-00-BR	STARK	26	17
		CHECKED - S.W.M.			C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736		ILLINOIS FED. AID PROJECT GKF11618
		DATE - 12/21/17							

BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

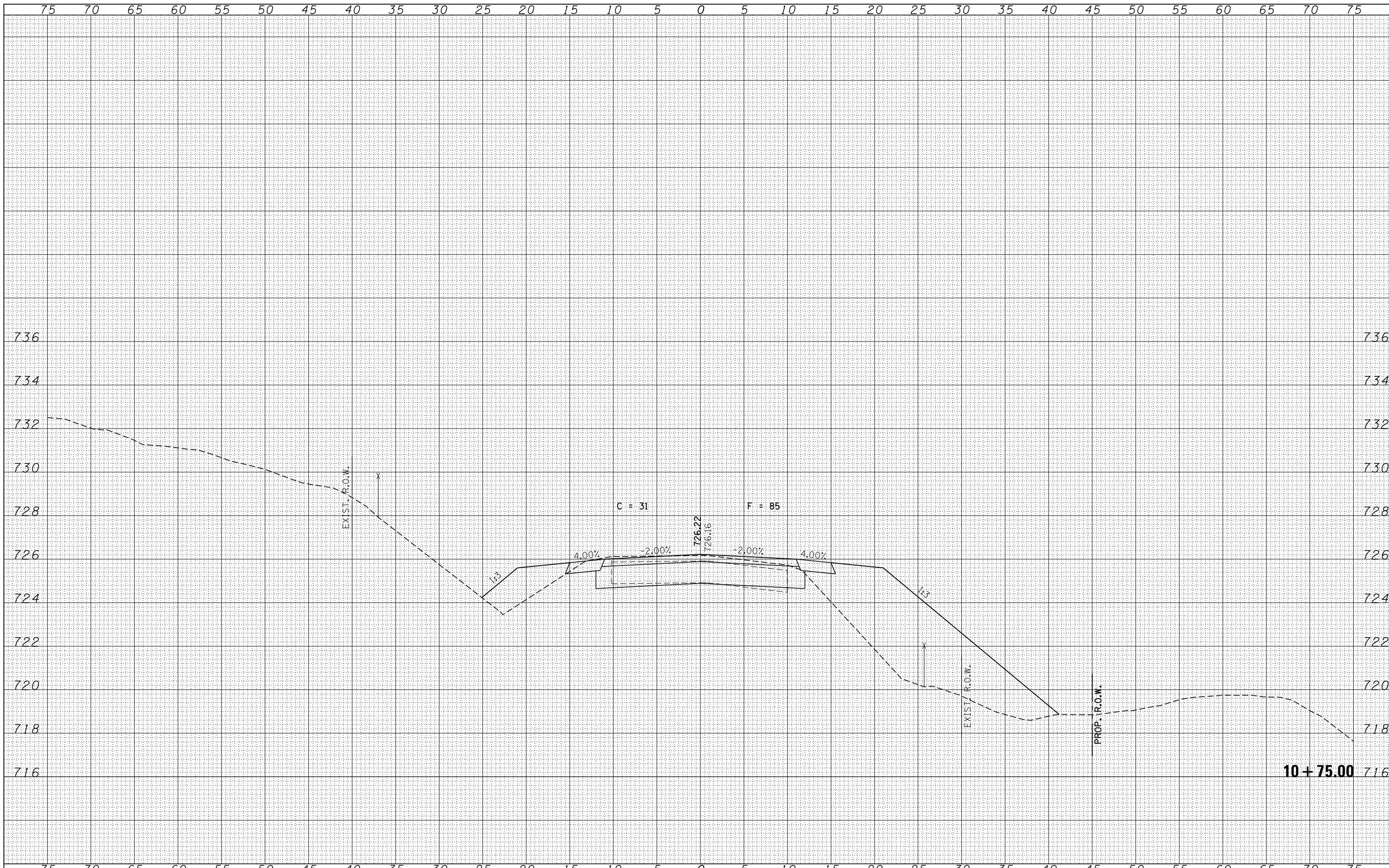


FILE NAME = 150251-sht-sxs.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>STARK COUNTY HIGHWAY DEPARTMENT</b>	STATION CROSS SECTIONS				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		1193	14-00178-00-BR	STARK	26	18				
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -		C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736						
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / SE CORP. 184.009958		DATE - 12/21/17	REVISED -		SCALE: 5H:2V	SHEET NO. 8 OF 16 SHEETS	STA. 10+50.00 TO STA. 10+50.00	ILLINOIS FED. AID PROJECT GKF11618					



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 150251-sht-sxs.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

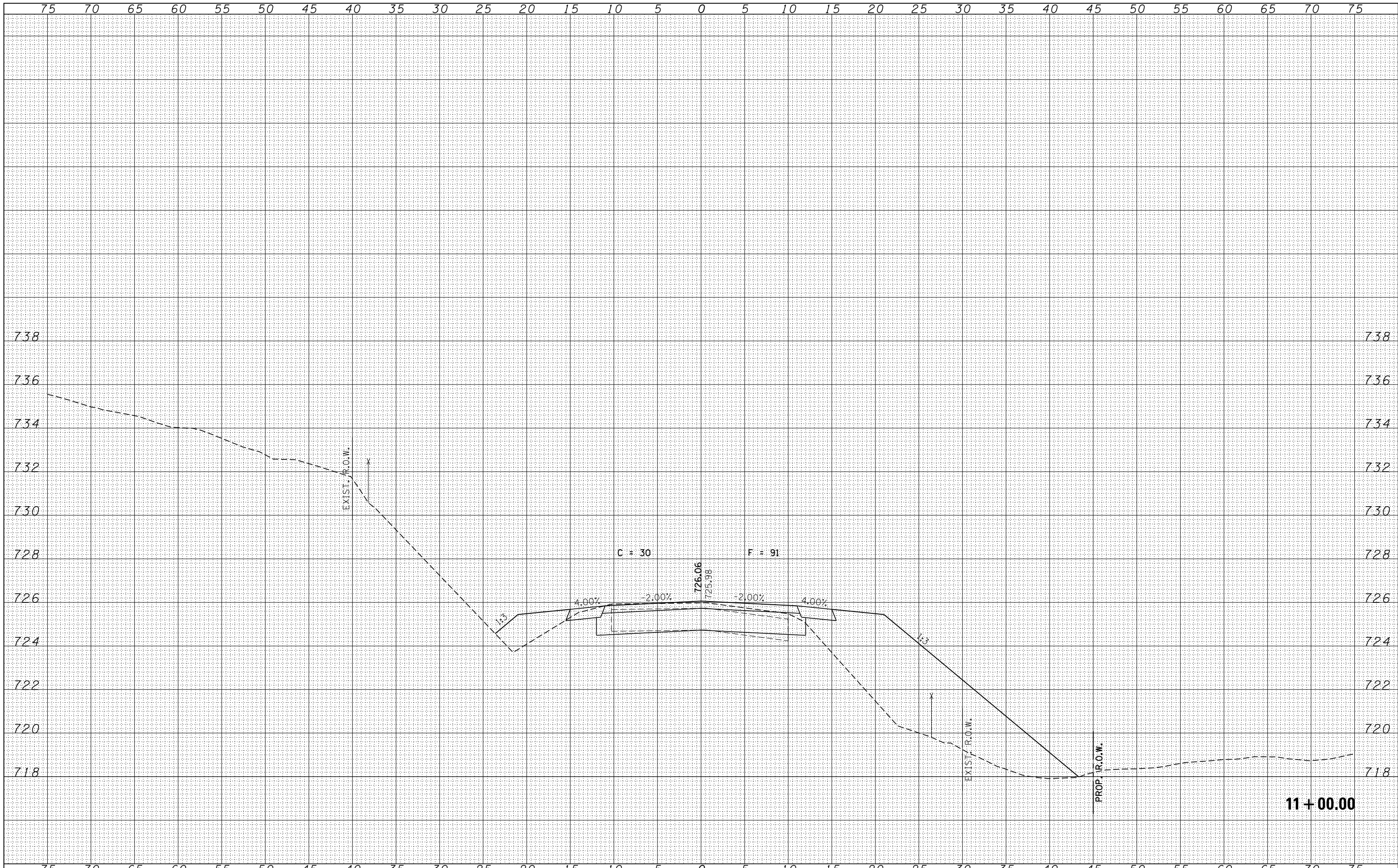
REVISER -  
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 REVISER -  
 REVISER -

STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 9 OF 16 SHEETS STA. 10+75.00 TO STA. 10+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	19
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				



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

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

FILE NAME = 150251-sht-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.009958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17

REVISIED -  
 REVISIED -  
 REVISIED -  
 REVISIED -

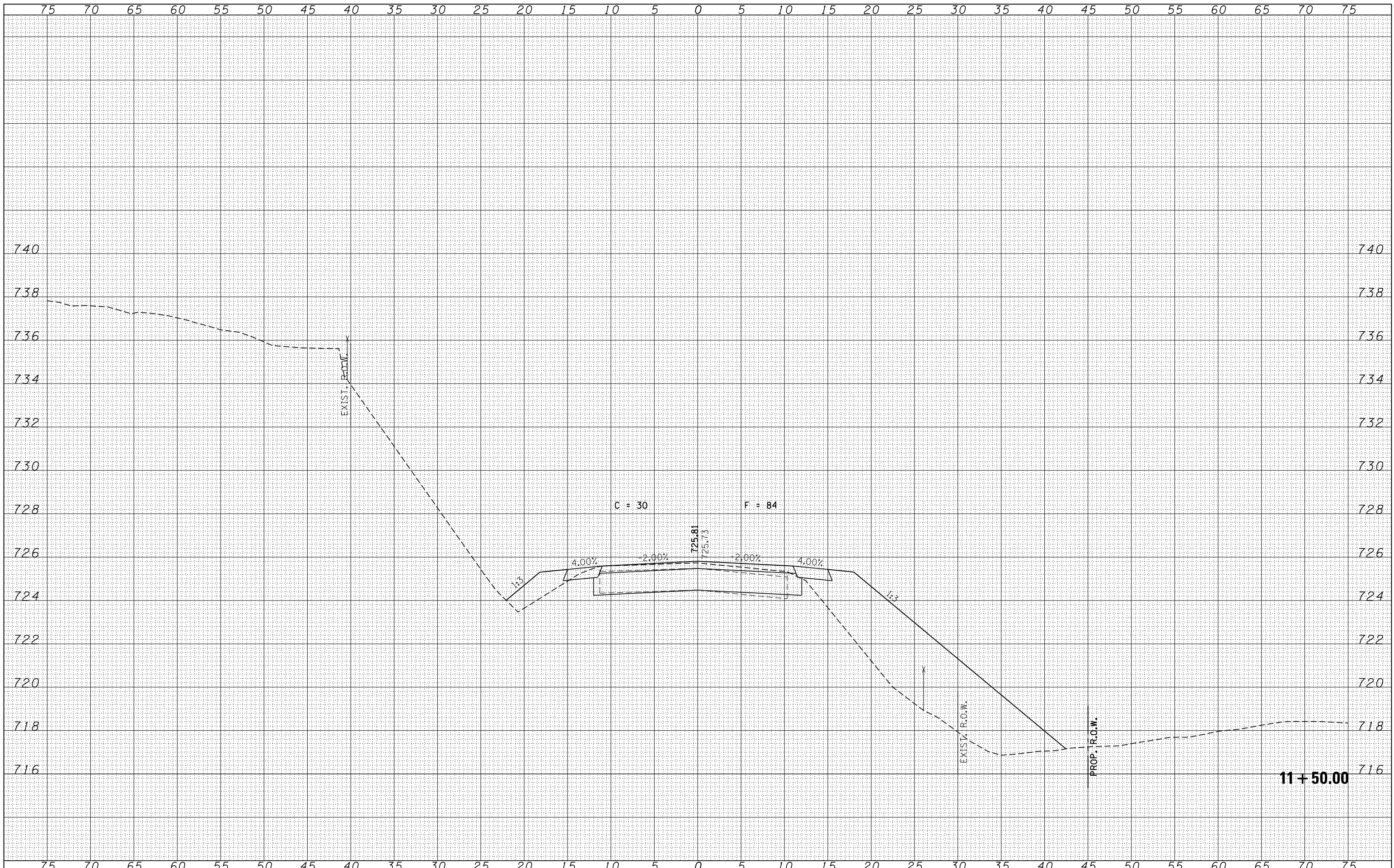
STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 10 OF 16 SHEETS STA. 11+00.00 TO STA. 11+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	20
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	





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

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

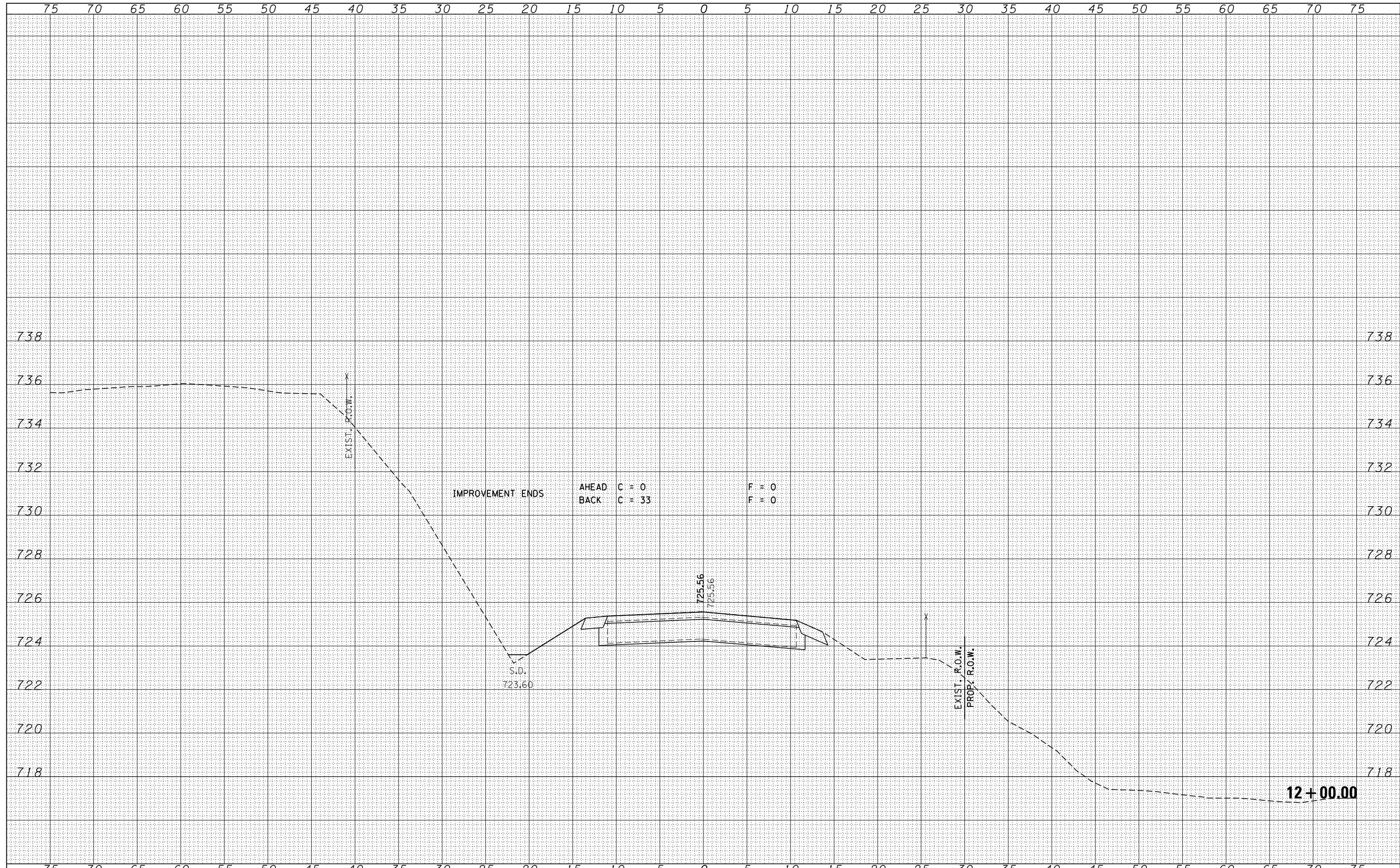
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000958		DRAWN - T.W.K.	REVISED -
		CHECKED - S.W.M.	REVISED -
		DATE - 12/21/17	REVISED -

**STATE OF ILLINOIS  
STARK COUNTY HIGHWAY DEPARTMENT**

<b>STATION CROSS SECTIONS</b>			
SCALE: 5H:2V	SHEET NO. 11 OF 16 SHEETS	STA. 11+50.00	TO STA. 11+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	21
C.H. 8 / OSCEOLA ROAD		CONTRACT NO. 89736		
ILLINOIS FED. AID PROJECT GKF11618				

**11 + 50.00**



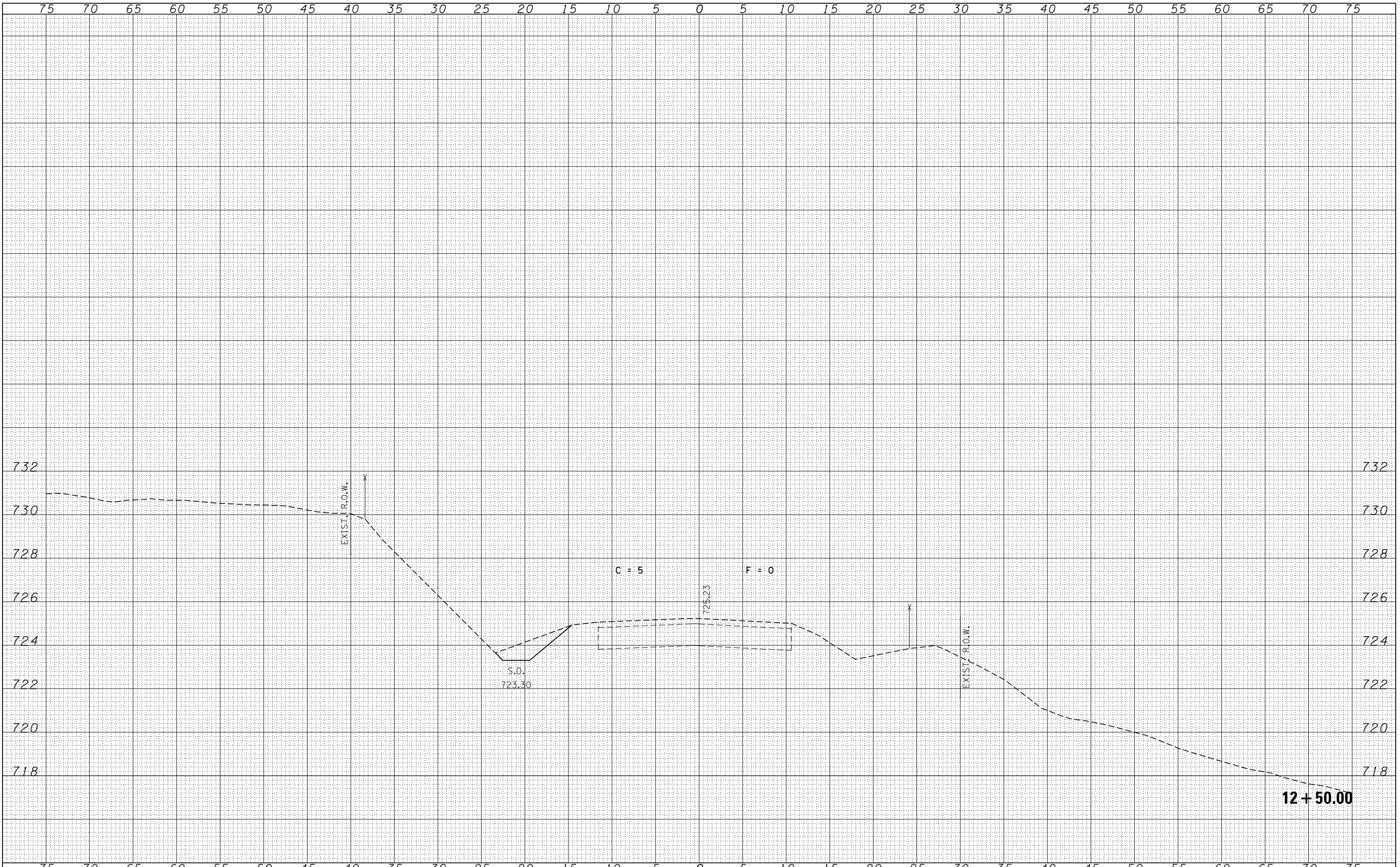
BY	DATE	SURVEYED	PLOTTED
FINAL SURVEY NO.	NOTE BOOK NO.	TEMPLATE AREAS CHECKED	AREAS CHECKED

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

FILE NAME = 150251-sht-sss.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REvised -	<b>STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT</b>				<b>STATION CROSS SECTIONS</b>																	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000958	DRAWN - T.W.K.	REvised -	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>F.A.S.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>1193</td> <td>14-00178-00-BR</td> <td>STARK</td> <td>26</td> <td>22</td> </tr> <tr> <td colspan="3">C.H. 8 / OSCEOLA ROAD</td> <td colspan="2" style="text-align: right;">CONTRACT NO. 89736</td> </tr> </table>					F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	1193	14-00178-00-BR	STARK	26	22	C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736				
F.A.S.	SECTION	COUNTY	TOTAL SHEETS					SHEET NO.																	
1193	14-00178-00-BR	STARK	26	22																					
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736																						
PLOT SCALE = *SCALE*	CHECKED - S.W.M.	REvised -	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE: 5H:2V</td> <td>SHEET NO. 12 OF 16 SHEETS</td> <td>STA. 12+00.00</td> <td colspan="2">TO STA. 12+00.00</td> </tr> </table>				SCALE: 5H:2V	SHEET NO. 12 OF 16 SHEETS	STA. 12+00.00	TO STA. 12+00.00															
SCALE: 5H:2V	SHEET NO. 12 OF 16 SHEETS	STA. 12+00.00	TO STA. 12+00.00																						
PLOT DATE = 1/19/2018	DATE - 12/21/17	REvised -	ILLINOIS FED. AID PROJECT GKF1161B																						

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	



FILE NAME = 150251-shr-ss.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -
		DRAWN - T.W.K.	REVISED -
		CHECKED - S.W.M.	REVISED -
		DATE - 12/21/17	REVISED -

STATE OF ILLINOIS  
STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS			
F.A.S.	SECTION	COUNTY	TOTAL SHEETS
1193	14-00178-00-BR	STARK	26
C.H. 8 / OSCEOLA ROAD			23
			CONTRACT NO. 89736

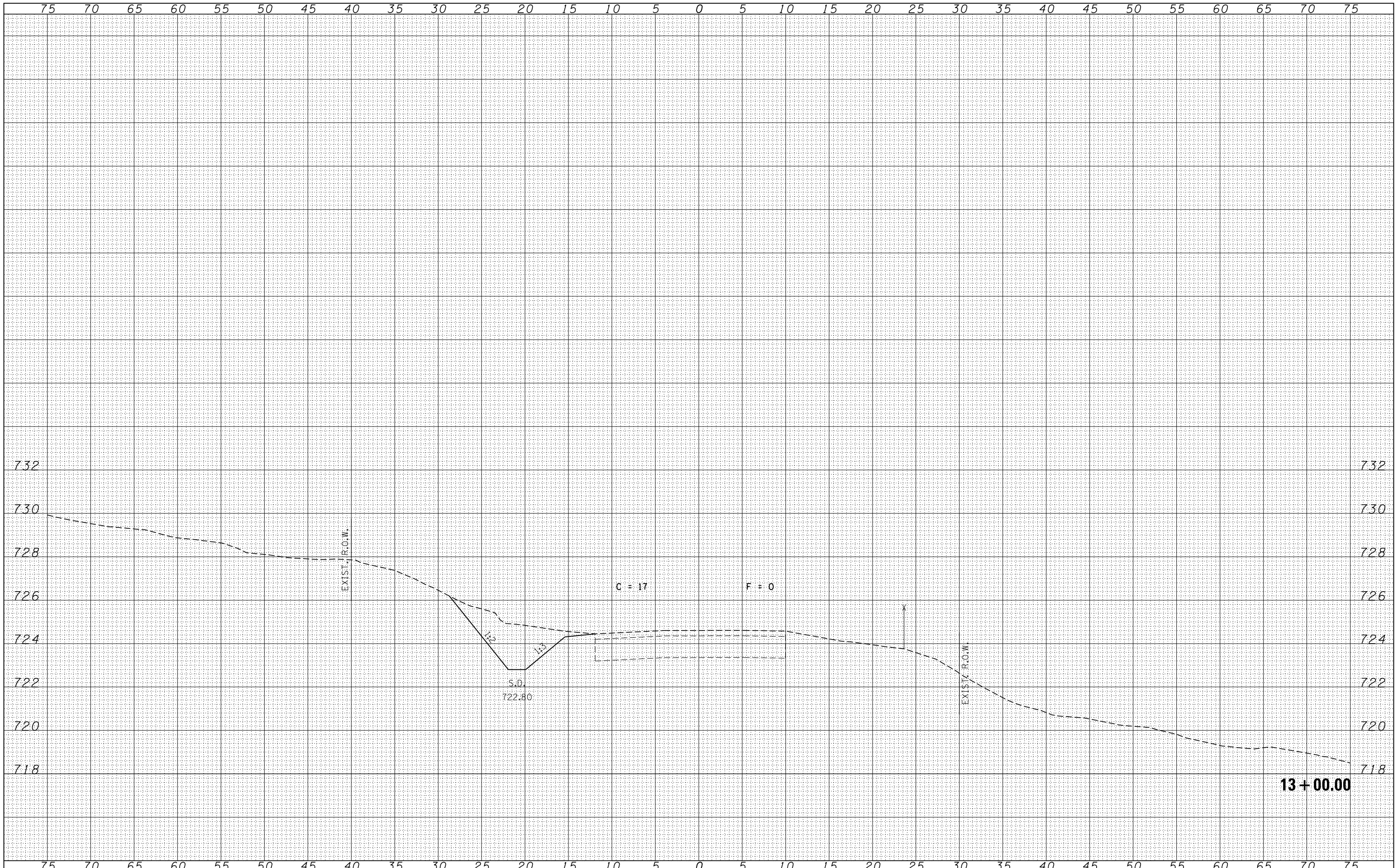
HAMPTON, LENZINI AND RENWICK, INC.  
3885 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184.009958

SCALE: 5H:2V SHEET NO. 13 OF 16 SHEETS STA. 12+50.00 TO STA. 12+50.00

ILLINOIS FED. AID PROJECT GKF11618

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

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



**13+00.00**

FILE NAME = 150251-sht-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184-000958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

REVISIED -  
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 REVISIED -  
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**STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT**

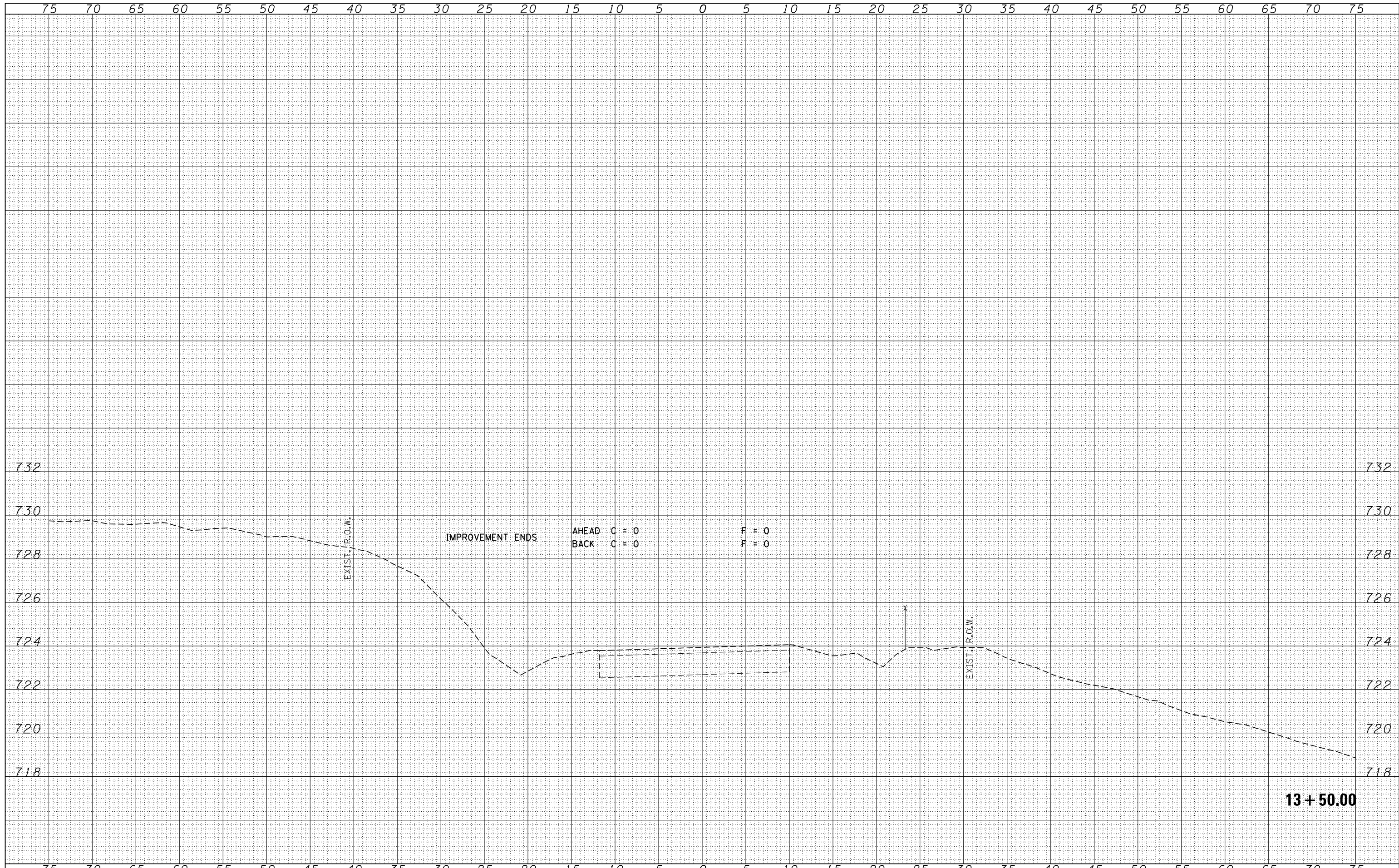
**STATION CROSS SECTIONS**

SCALE: 5H:2V SHEET NO. 14 OF 16 SHEETS STA. 13+00.00 TO STA. 13+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	24
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF1161B				

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

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



FILE NAME = 150251-sht-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME = rhosick	DESIGNED - J.W.F.	REVISIED -
	DRAWN - T.W.K.	REVISIED -
PLOT SCALE = *SCALE*	CHECKED - S.W.M.	REVISIED -
PLOT DATE = 1/19/2018	DATE - 12/21/17	REVISIED -

**STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

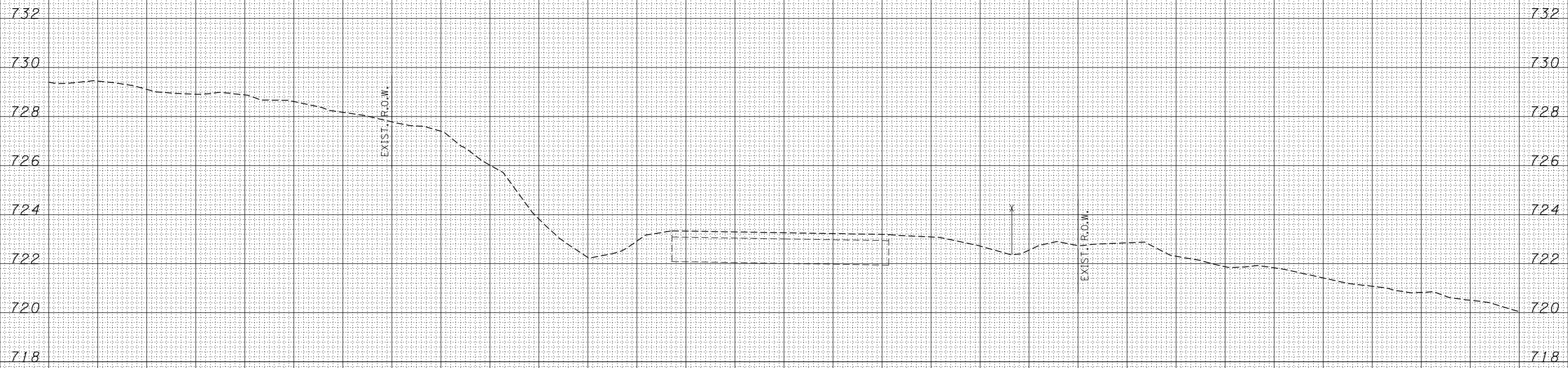
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	25
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

FILE NAME = 150251-sht-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 L.S. / P.E. / S.E. CORP. 184-000958

USER NAME = rhosick  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/21/17  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = 1/19/2018

REVISIED -  
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 REVISIED -  
 REVISIED -

STATE OF ILLINOIS  
 STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 16 OF 16 SHEETS  
 STA. 14+00.00 TO STA. 14+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1193	14-00178-00-BR	STARK	26	26
C.H. 8 / OSCEOLA ROAD			CONTRACT NO. 89736	
ILLINOIS FED. AID PROJECT GKF11618				

14 + 00.00