

PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM OFF SYSTEM BRIDGE

**PROJECT UR3X(855)
SECTION 15-07124-00-BR
LOUISVILLE ROAD DISTRICT
CLAY COUNTY
T.R. 154A / BOBWHITE ROAD
PROPOSED STRUCTURE NO. 013-3251
C-97-026-17**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 154A	15-07124-00-BR	CLAY	22	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95825		

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	PLAN AND PROFILE
5-13.	STATION CROSS SECTIONS
14-20.	BRIDGE PLANS
21-22.	BORINGS

HIGHWAY STANDARDS:

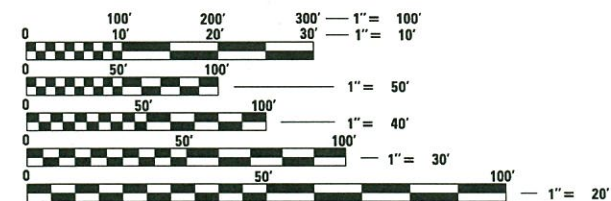
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
701901-07	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

NORTHEAST MARION COUNTY WATER
c/o HENNIGAN & ASSOCIATES
838 E. McCORD STREET
CENTRALIA, IL 62801

WABASH TELEPHONE COMPANY
P.O. BOX 299
LOUISVILLE, IL 62858

CLAY ELECTRIC CO-OP
7784 OLD HIGHWAY 50
P.O. BOX 517
FLORA, IL 62839



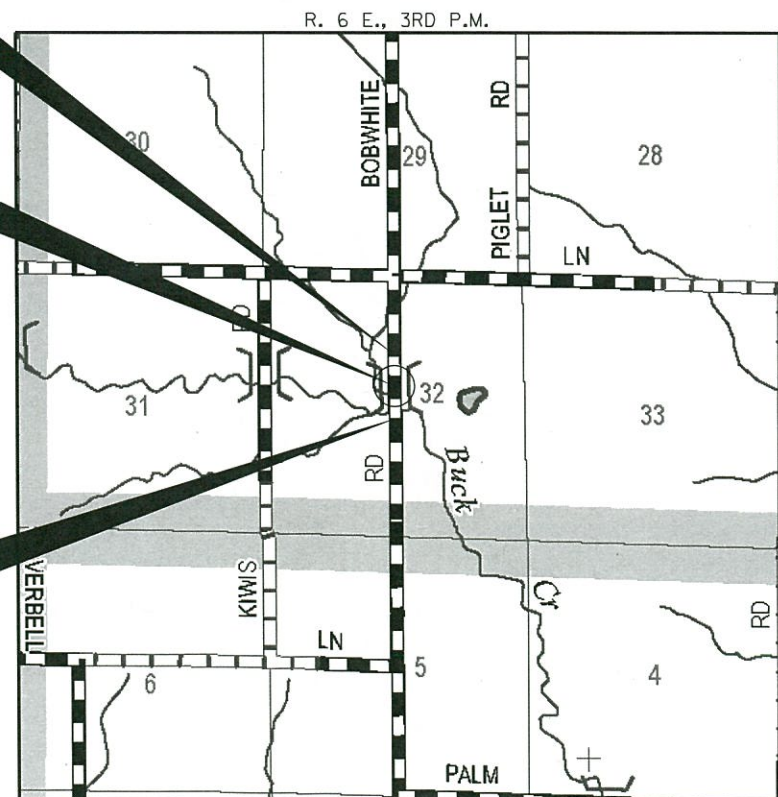
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: LOCAL ROAD (0-250)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 125 ADT

IMPROVEMENT ENDS
STATION 51+50

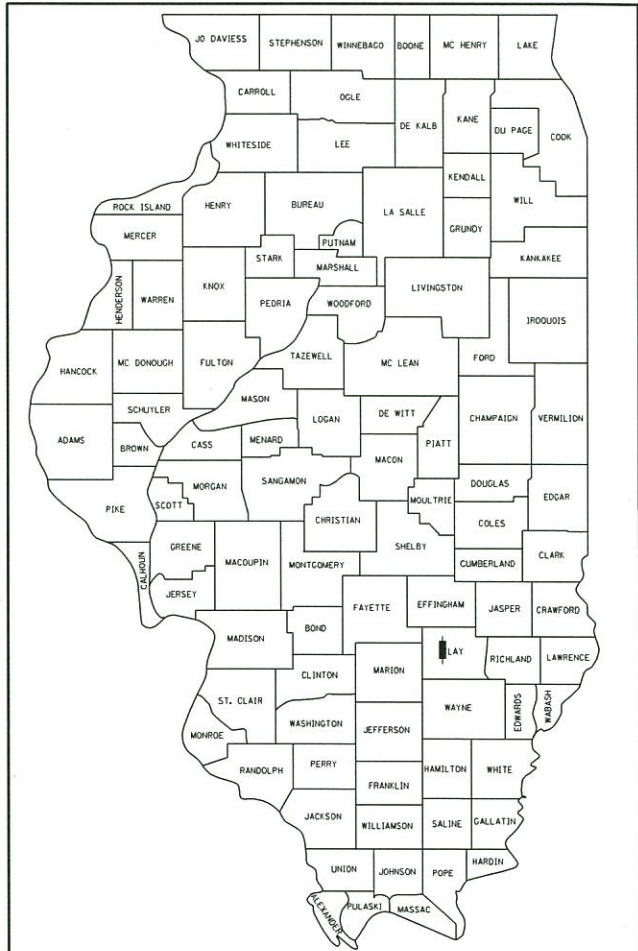
STA. 49+97
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE. SINGLE SPAN @ 47'-0"
24'-0" RDWY.; SKEW = 20°
EXISTING STRUCTURE NO. 013-3075
PROPOSED STRUCTURE NO. 013-3251

IMPROVEMENT BEGINS
STATION 47+50



LOCATION MAP

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



LOCATION OF SECTION INDICATED THUS: -



WARNING

**CALL 811
BEFORE YOU DIG
DIG NO: X0780753**

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 11.08.17
[Signature]
COUNTY ENGINEER

APPROVED 11.09.17
[Signature]
TOWNSHIP COMMISSIONER

PASSED 11-15-17
[Signature]
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS
11-15-17
[Signature]
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 11/01/2017

EXPIRES: 11/30/2017

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hrengineering.com

184.000999
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

PROJECT NUMBER: 16.0131.130 DATE: 11/01/17

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION
			TYPE CODE 0010 TOTAL
^ 20200100	EARTH EXCAVATION	CU YD	125
20300100	CHANNEL EXCAVATION	CU YD	105
^ 20400800	FURNISHED EXCAVATION	CU YD	335
28000305	TEMPORARY DITCH CHECKS	FOOT	26
^ 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	332
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	3
40300500	COVER COAT AGGREGATE	TON	18
40300600	SEAL COAT AGGREGATE	TON	10
^ 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	23.2
50300280	CONCRETE ENCASMENT	CU YD	2.8
^ 50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,128
50800105	REINFORCEMENT BARS	POUND	2,590
* 50900205	STEEL RAILING, TYPE S1	FOOT	90
51201400	FURNISHING STEEL PILES HP10X42	FOOT	245
51202305	DRIVING PILES	FOOT	245
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	60
^ 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	42
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.35
^ X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	270

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

1. 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.
2. 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 PAVEMENT 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. PROPER DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
4. 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.
5. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE COURSE, TYPE B	2.05 TON/CU YD
STONE DUMPED RIPRAP	1.75 TON/CU YD
BITUMINOUS MATERIALS	0.25 LB/SQ YD
COVER AND SEAL COAT AGGREGATE	25 LB/SQ YD
6. THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.35 ACRES
7. COMMITMENTS:
 - 1) TREE REMOVAL IS PROHIBITED BETWEEN APRIL 1 AND SEPTEMBER 30.

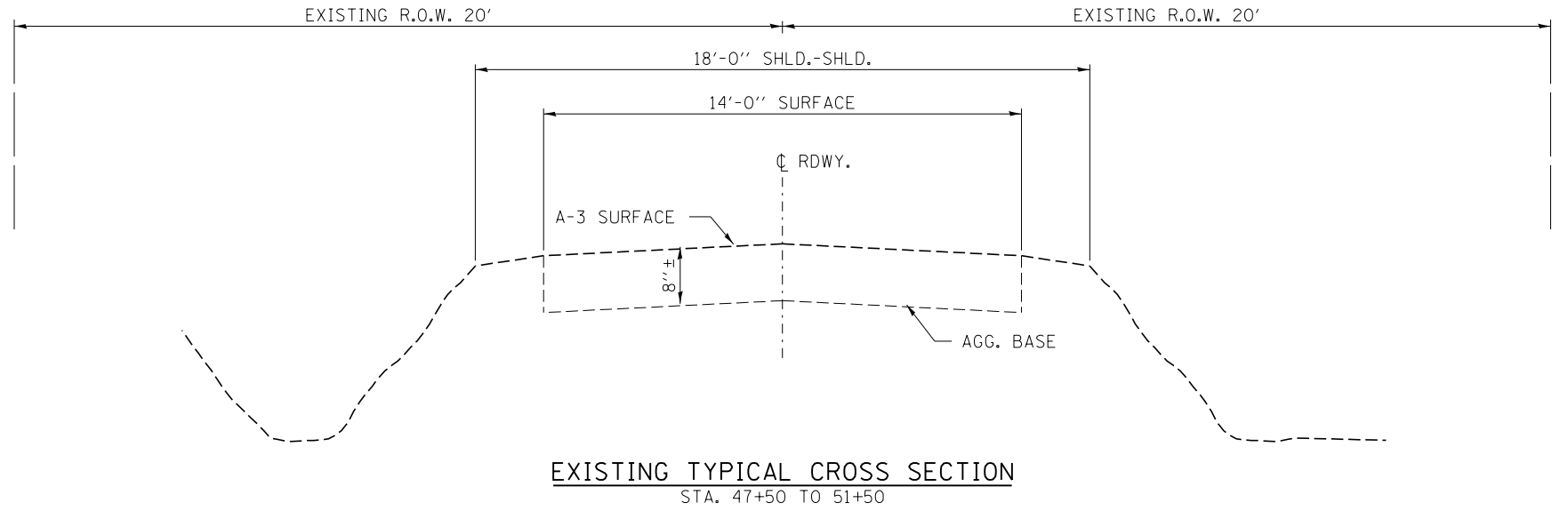
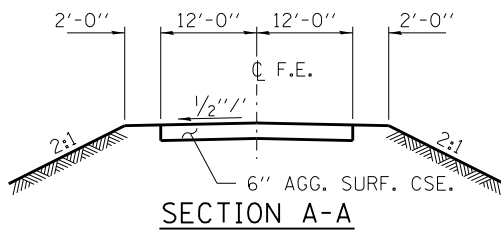
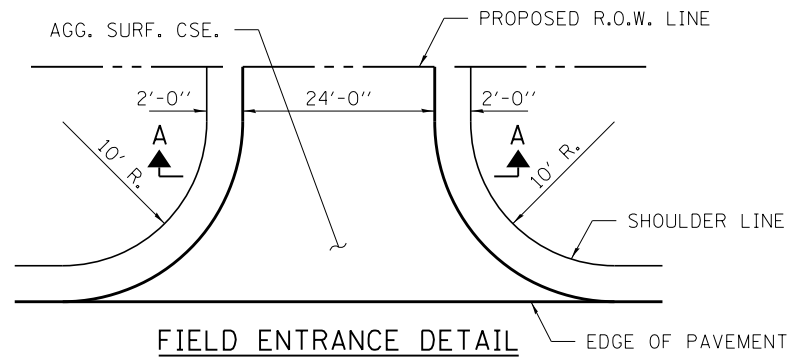
EROSION CONTROL SCHEDULE

LOCATION	TEMPORARY DITCH CHECKS 28000305
	FOOT
TR 154A	
LT. STA 49+70	13
LT. STA 50+30	13
RT. STA 47+50 TO LT. STA 49+67	
RT. STA 50+68	
TOTAL	26

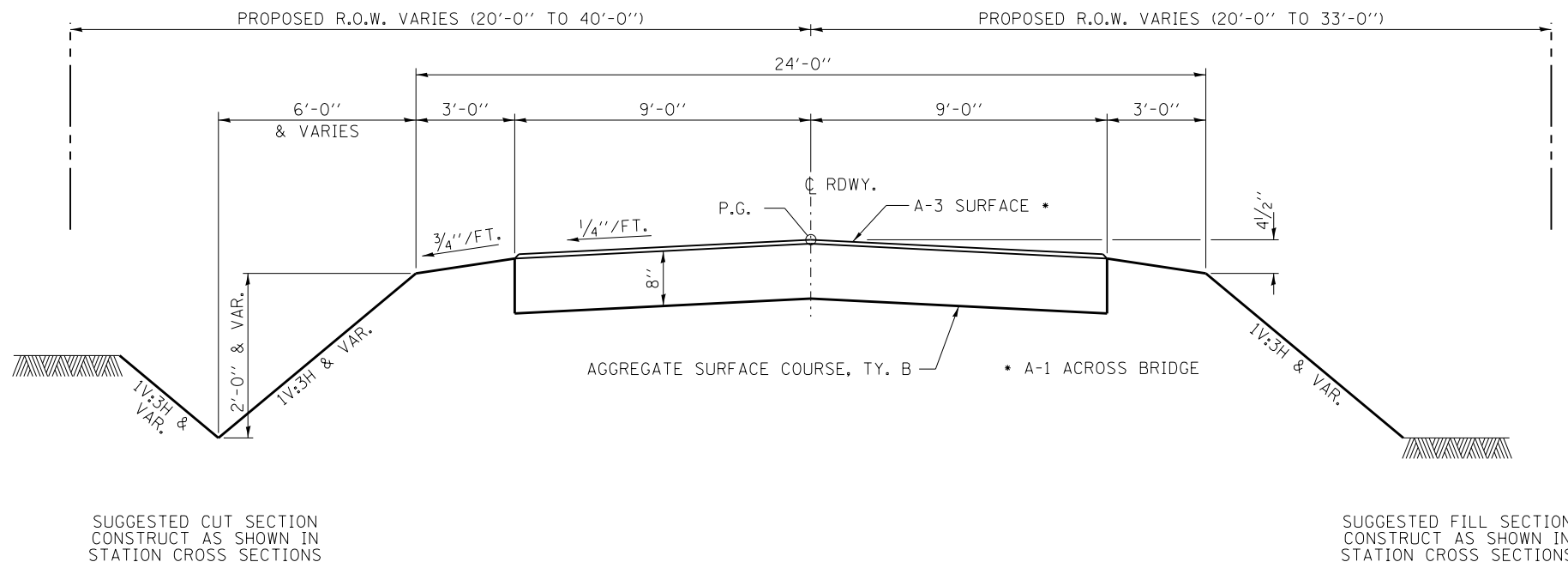
EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100 CU.YD.	20300100 CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 154A							
STA 47+50 TO STA 49+72.78	45		25.00%	100.00%	34	339	-305
STA 49+72.78 TO STA 50+21.21		105	25.00%	70.00%	55		55
STA 50+21.21 TO STA 51+50	79		25.00%	100.00%	59	143	-84
TOTAL	124	105			148	482	-334
USE	125						-335

FURNISHED EXCAVATION 335 CU YDS



EXISTING TYPICAL CROSS SECTION
STA. 47+50 TO 51+50



PROPOSED TYPICAL CROSS SECTION
STA. 47+50 TO 51+50

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING
ROADWAY ARE TO BE CONSTRUCTED FROM STA. 47+50 TO 48+00 AND
STA. 51+00 TO 51+50.

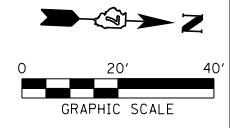
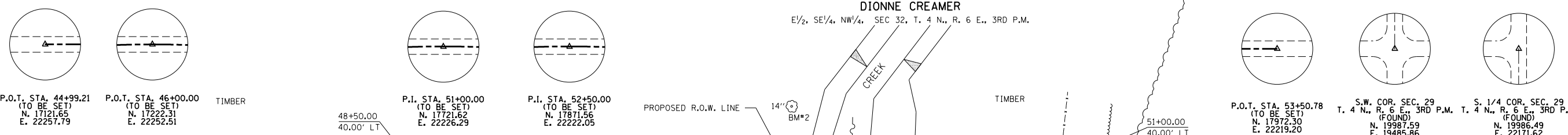
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	PLOT SCALE = *SCALE*	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 11/1/2017	DATE - 11/01/17	REVISED -

STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT

TYPICAL CROSS SECTIONS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154A	15-07124-00-BR	CLAY	22	3
LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825		
ILLINOIS		FED. AID PROJECT UR3X(B55)		



DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	

IMPROVEMENT BEGINS STATION 47+50

IMPROVEMENT ENDS STATION 51+50

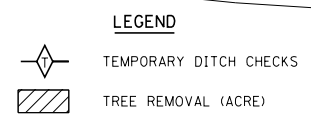
CURVE DATA
 PI STA. = 51+00.00
 $\Delta = 1^\circ 23' 07''$ (RT)
 $D = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 69.27'$
 $L = 138.53'$
 $E = 0.42'$
 P.C. STA. = 50+30.74
 P.T. STA. = 51+69.26
 NO S.E.

EXISTING STRUCTURE NO. 013-3075
 STATION 50+00 - 2 SPAN CAST IN PLACE CONCRETE SLAB BRIDGE ON CLOSED CONCRETE ABUTMENTS AND SOLID WALL PIER WITH FOOTING. 21.0' FC-FC. ABUTS; 20.2' o.-o. DECK

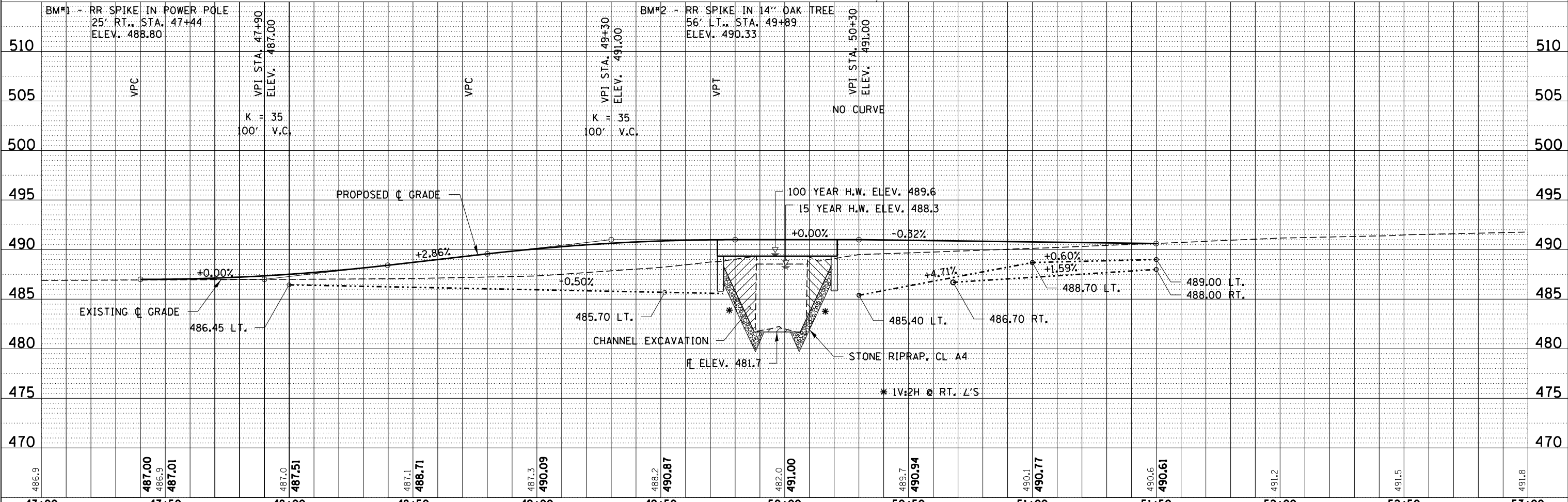
STATION 49+97
 PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE, SINGLE SPAN @ 47'-0"
 24'-0" RDWY.; SKEW = 20°
 PROPOSED STRUCTURE NO. 013-3251

RT STA 50+50 24' F.E.
 PIPE CULVERTS, CLASS D, TY 1 18"
 LENGTH = 60 FOOT
 25' RT STA 50+08 DSFL 485.0
 24' RT STA 50+68 USFL 486.7
 EXISTING CMP TO BE REMOVED

GARY DALE & CHERYL KUHLIG
 W 1/2, NE 1/4, SEC 32, T. 4 N., R. 6 E., 3RD P.M.



DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	



486.9	487.00	486.9	487.01	487.0	487.51	487.1	488.71	487.3	490.09	488.2	490.87	482.0	491.00	489.7	490.94	490.1	490.77	490.6	490.61	491.2	491.5	491.8
47+00	47+50	48+00	48+50	49+00	49+50	50+00	50+50	51+00	51+50	52+00	52+50	53+00										

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 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE = 11/01/17

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STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE

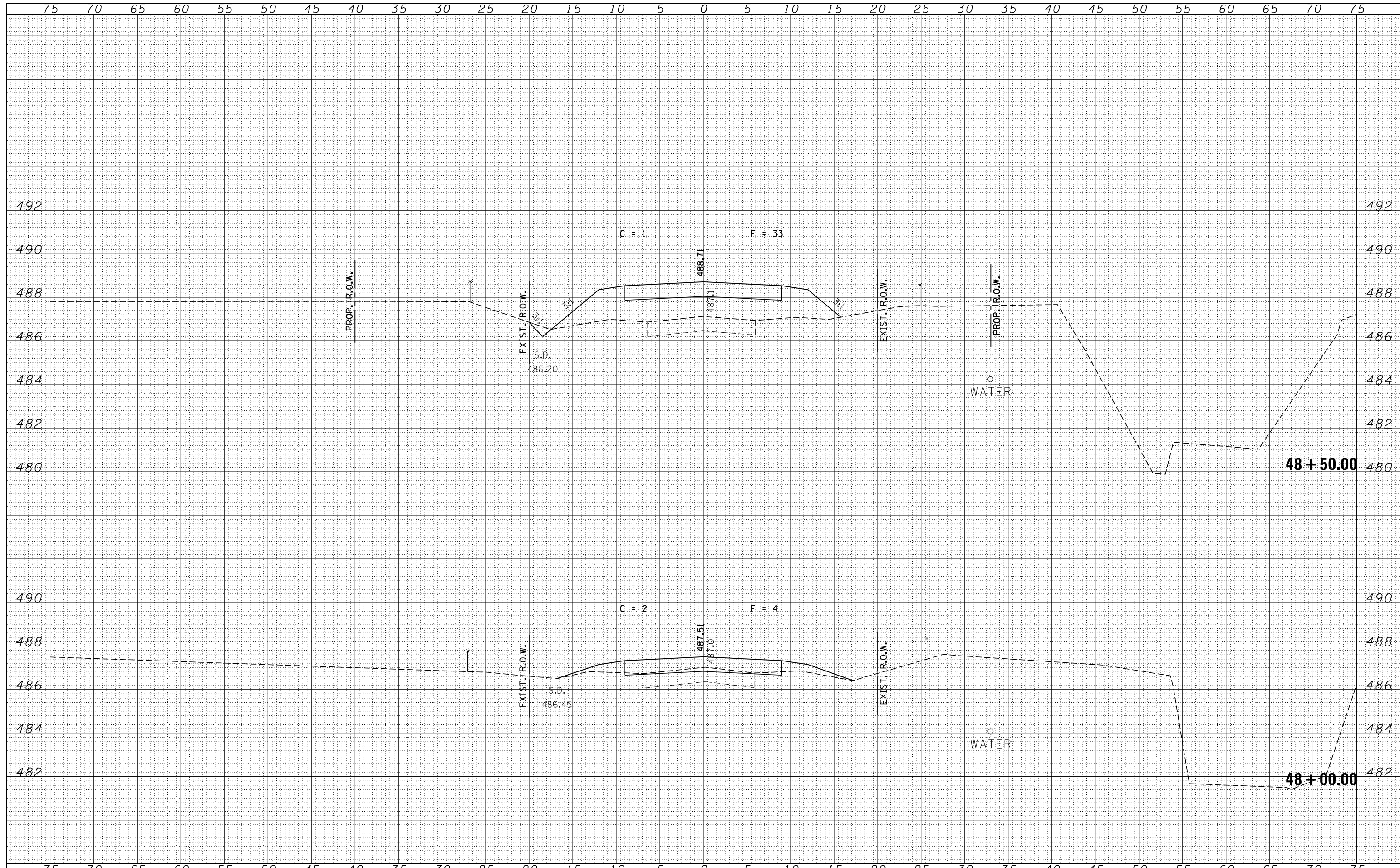
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T.R.	SECTION	COUNTY	TOTAL SHEETS
154A	15-07124-00-BR	CLAY	22 4
LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825	

HAMPTON, LENZINI AND RENWICK, INC.
 3065 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

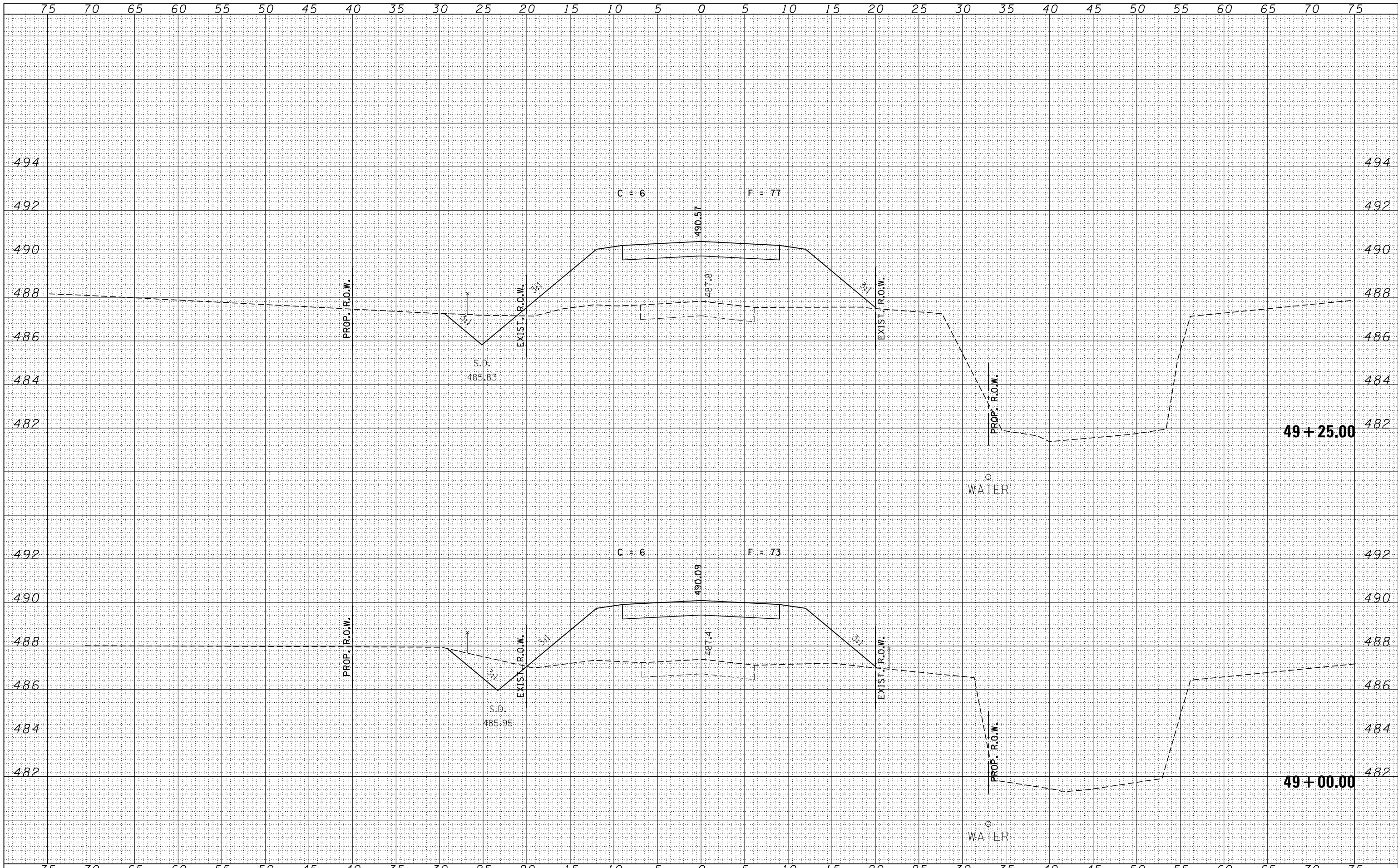
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NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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 DATE - 11/01/17

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 PLOT DATE = 11/1/2017

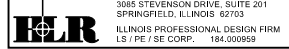
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STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

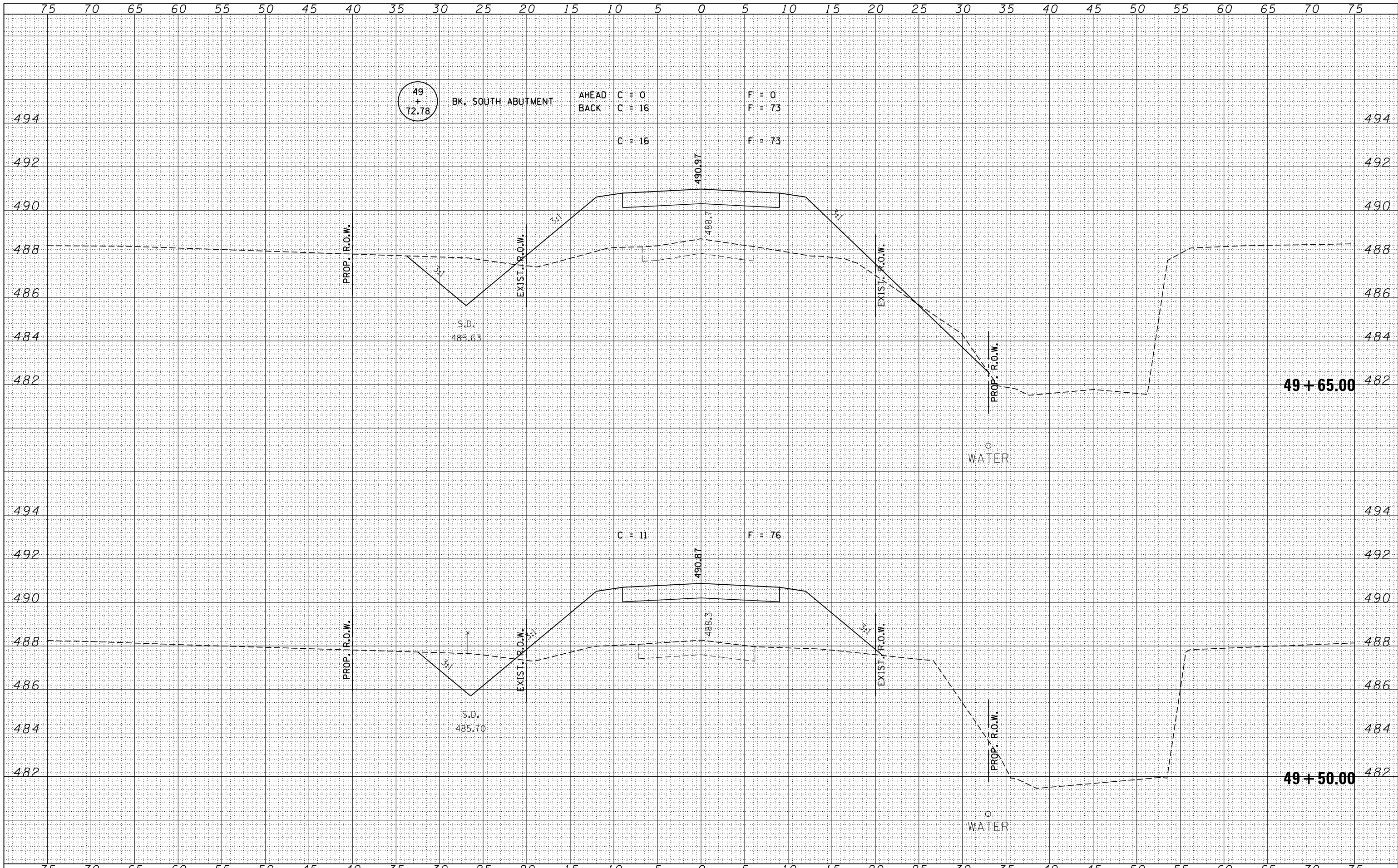
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 SHEET NO. 3 OF 9 SHEETS
 STA. 49+00.00 TO STA. 49+25.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154A	15-07124-00-BR	CLAY	22	7
LOUISVILLE ROAD DISTRICT			CONTRACT NO. 95825	
ILLINOIS			FED. AID PROJECT UR3X(855)	



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NOTE BOOK	
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 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000958

USER NAME = tlmk
 DESIGNED - L.A.P.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 11/01/17
 PLOT SCALE = *SCALE*
 PLOT DATE = 11/1/2017

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STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

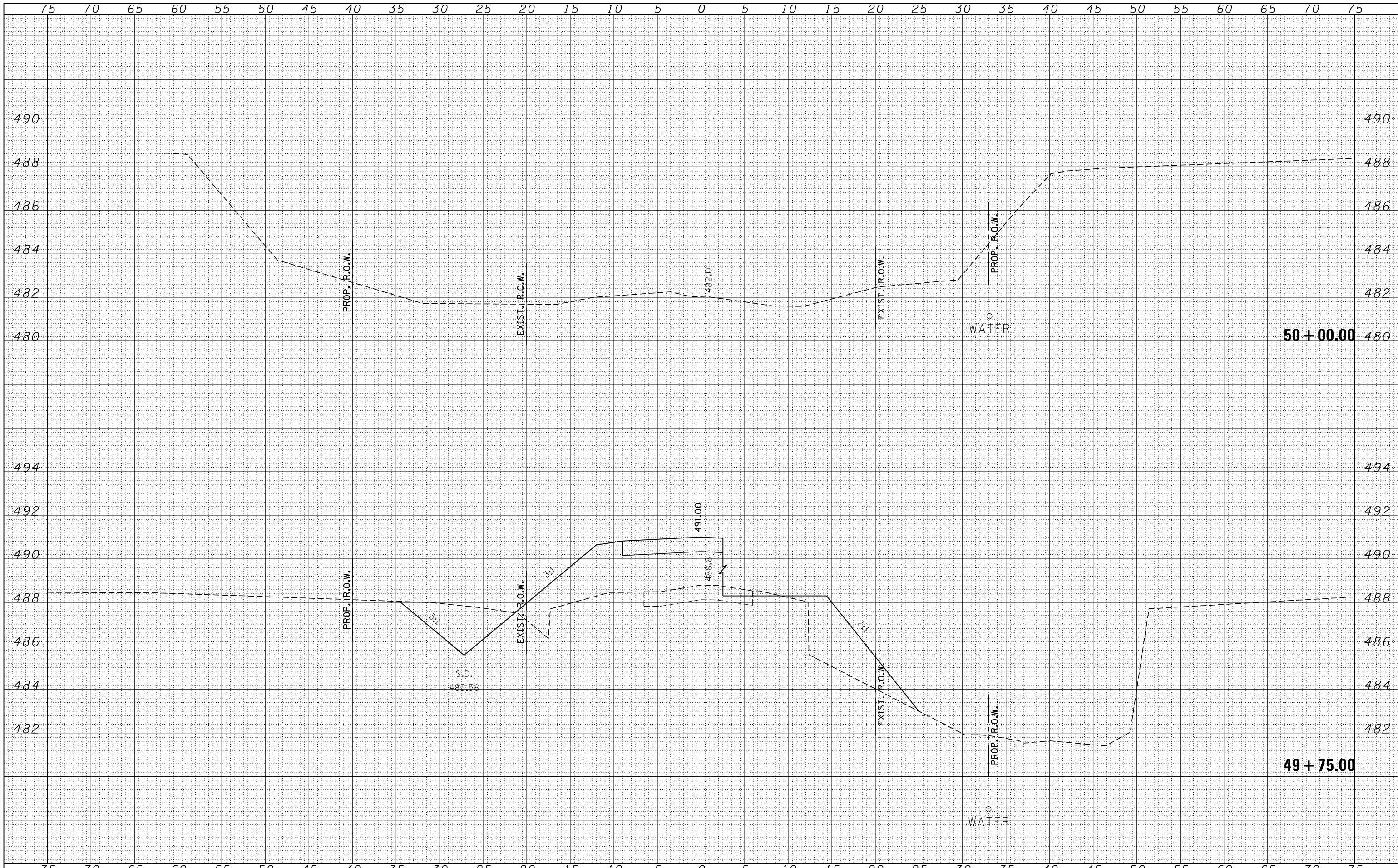
STATION CROSS SECTIONS

SCALE: 5H:2V
 SHEET NO. 4 OF 9 SHEETS
 STA. 49+50.00 TO STA. 49+65.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154A	15-07124-00-BR	CLAY	22	8
LOUISVILLE ROAD DISTRICT			CONTRACT NO. 95825	
ILLINOIS			FED. AID PROJECT UR3(X)859	

DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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 CHECKED - S.W.M.
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 PLOT DATE = 11/17/2017

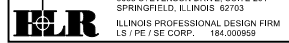
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STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

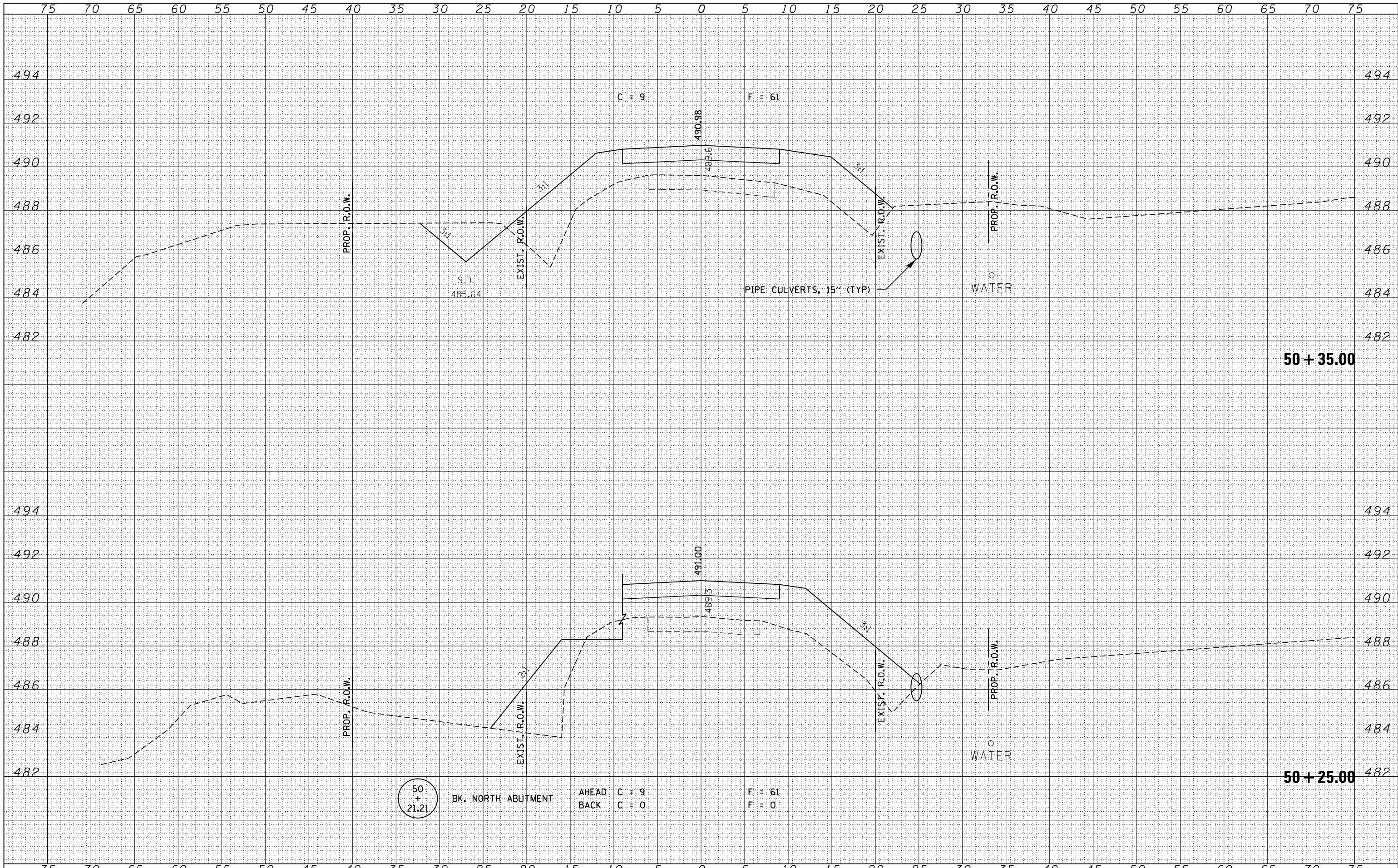
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154A	15-07124-00-BR	CLAY	22	9
LOUISVILLE ROAD DISTRICT			CONTRACT NO. 95825	
ILLINOIS			FED. AID PROJECT UR3X(855)	



DATE	
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FINAL SURVEY	
NOTE BOOK	
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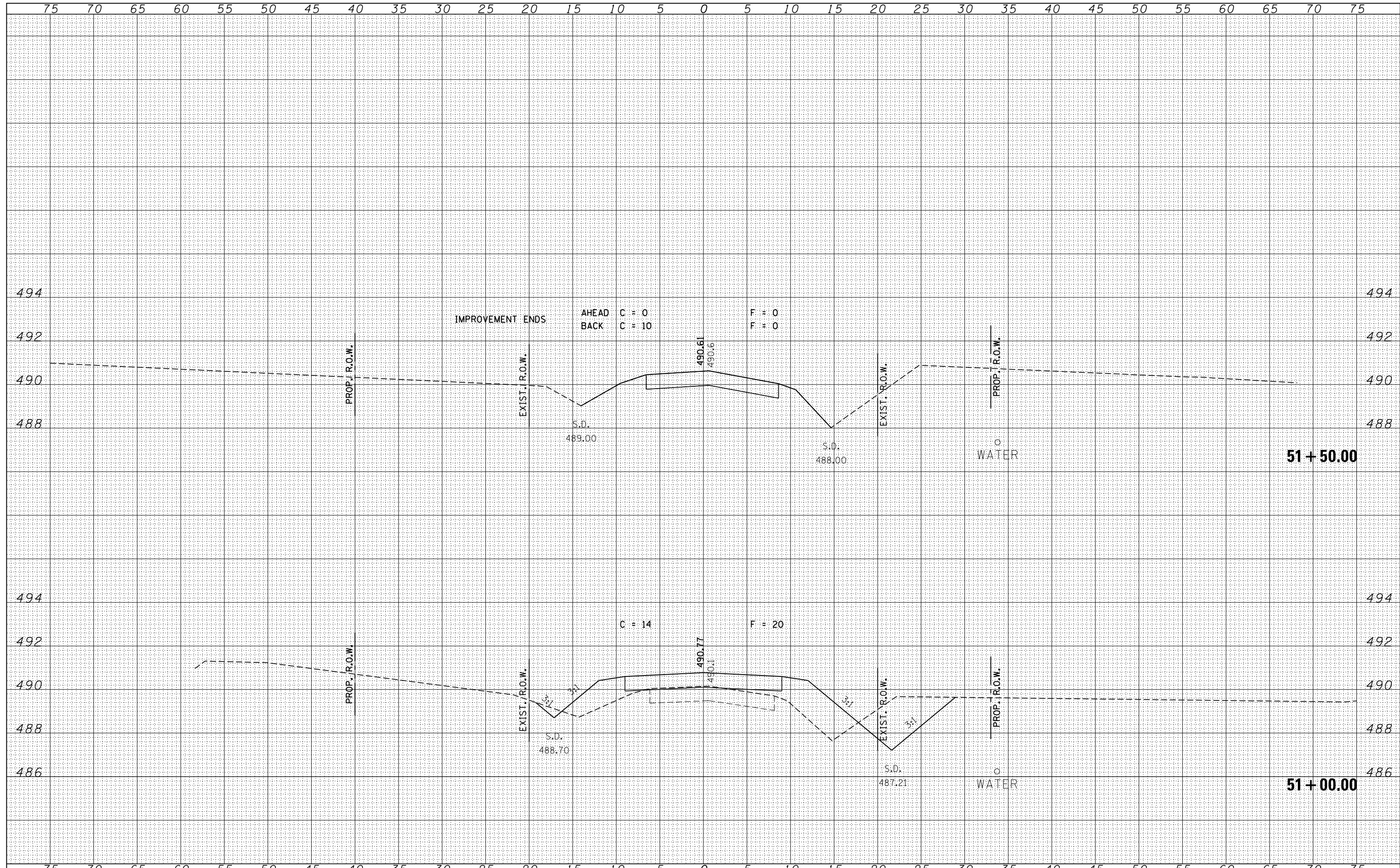
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NOTE BOOK	
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FILE NAME = 160131-sht-xxsht.dgn	USER NAME = tlmk	DESIGNED - L.A.P.	REVISÉ -	STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		DRAWN - L.G.C.	REVISÉ -		154A	15-07124-00-BR	CLAY	22	10			
		CHECKED - S.W.M.	REVISÉ -		LOUISVILLE ROAD DISTRICT			CONTRACT NO. 95825				
		DATE - 11/01/17	REVISÉ -		SCALE: 5H:2V	SHEET NO. 6 OF 9 SHEETS	STA. 50+25.00 TO STA. 50+35.00	ILLINOIS	FED. AID PROJECT UR3X(855)			

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

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



FILE NAME = 160131-sht-xxsh.tdgn	USER NAME = timk	DESIGNED - L.A.P.	REVISIED -	<p align="center">STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT</p> <p align="center">STATION CROSS SECTIONS</p>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000958		DRAWN - L.G.C.	REVISIED -		154A	15-07124-00-BR	CLAY	22	12
		CHECKED - S.W.M.	REVISIED -		LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825		
		DATE - 11/01/17	REVISIED -		SCALE: 5H:2V	SHEET NO. 8 OF 9 SHEETS	STA. 51+00.00	TO STA. 51+50.00	

ILLINOIS FED. AID PROJECT UR3X(855)

BENCHMARK: RR spike in 14" oak tree; 56' left, station 49+89, Elev. 490.33

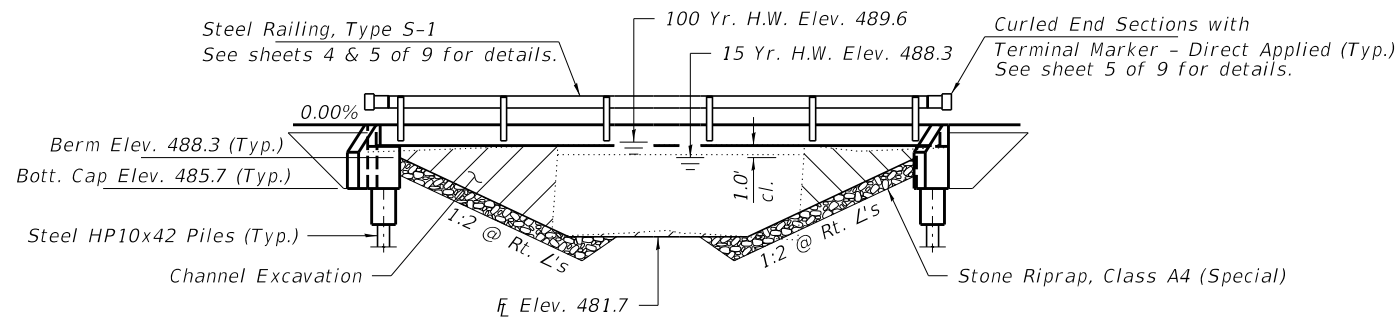
EXISTING STRUCTURE: Sta. 50+00 - Two span cast in place concrete slab bridge on closed concrete abutments and solid wall pier with footing. 21.0' fc.-fc. abuts., 20.2' o.-o. deck.

Structure closed to traffic during construction.

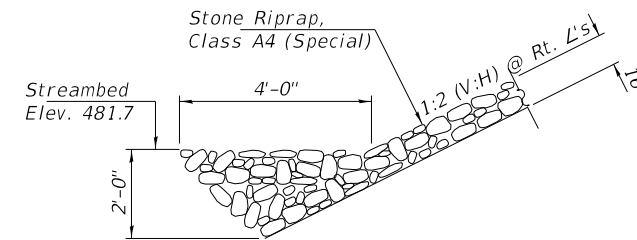
No Salvage

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the North Abutment or approved by the Engineer before ordering the remainder of piles.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.
 All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.
 The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.



ELEVATION

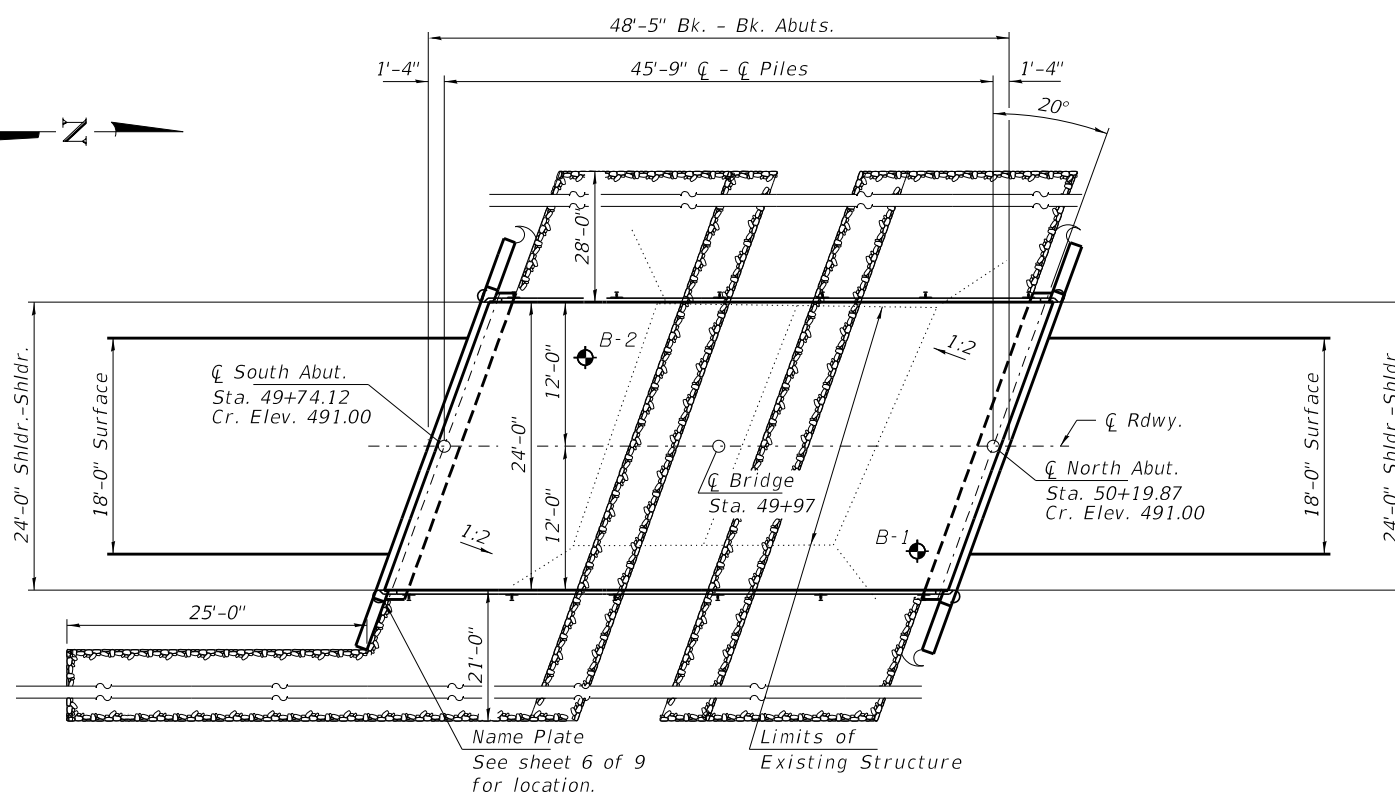
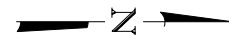


SECTION A-A

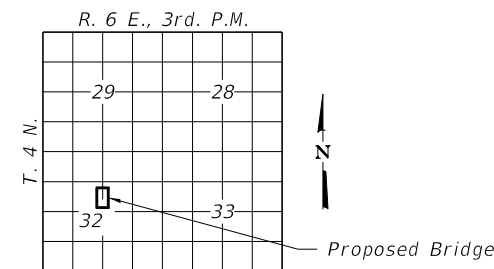
Note: See Special Provisions for Stone Riprap, Class A4 (Special).

INDEX OF STRUCTURE SHEETS

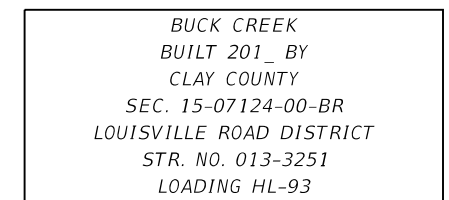
1. General Plan & Elevation
2. 17"x48" PPC Deck Beam
3. 17"x48" PPC Deck Beam Details
4. Superstructure Details
5. Steel Railing, Type S-1
6. Abutments
7. HP-Pile Details
- 8-9. Borings



PLAN



LOCATION SKETCH



NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with all interims.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($1/2$ " low lax. strands)
 $f_{pbt} = 201,960$ psi ($1/2$ " low lax. strands)
 $f_y = 60,000$ psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.177g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.470g
 Soil Site Class = C

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
Design	15	820	120	180	488.29	0.12	0.62	488.41	488.91	
Base	100	1360	120	220	489.58	0.13	0.33	489.71	489.91	
Scour Check	200	1560	120	220	489.79	0.14	0.30	489.93	490.09	
Existing Overtop	10	710	120		487.79	0.20		487.99		
Proposed Overtop	100	1360		220	489.58		0.33		489.91	
Max. Calc.	500	1860	120	220	490.07	0.16	0.26	490.23	490.33	

Drainage Area = 2.2 Sq. Mi. Existing Low Grade Elev. 486.9 @ Sta. 47+50
 Proposed Low Grade Elev. 489.0 @ Sta. 49+00

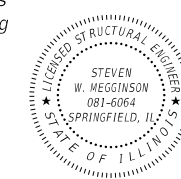
10 Year Velocity through Existing Bridge = 5.1 fps 10 Year Velocity through Proposed Bridge = 5.8 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elev. (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	485.7	485.7	8
Q200	485.7	485.7	
Design	485.7	485.7	
Check	485.7	485.7	

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

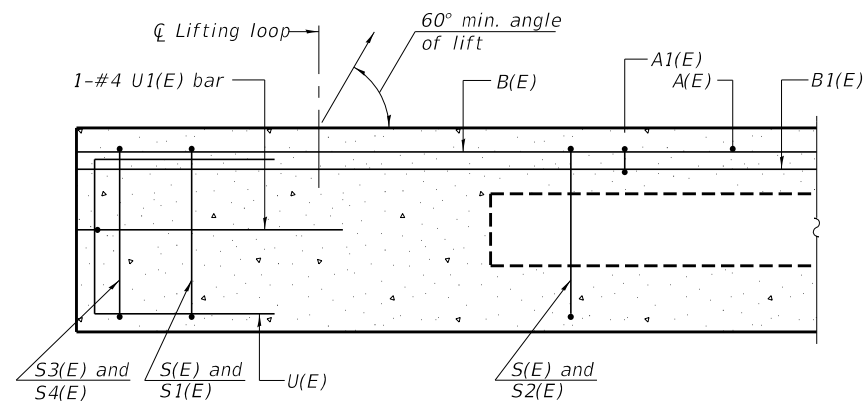
Steven W. Megginson 09/20/2017
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



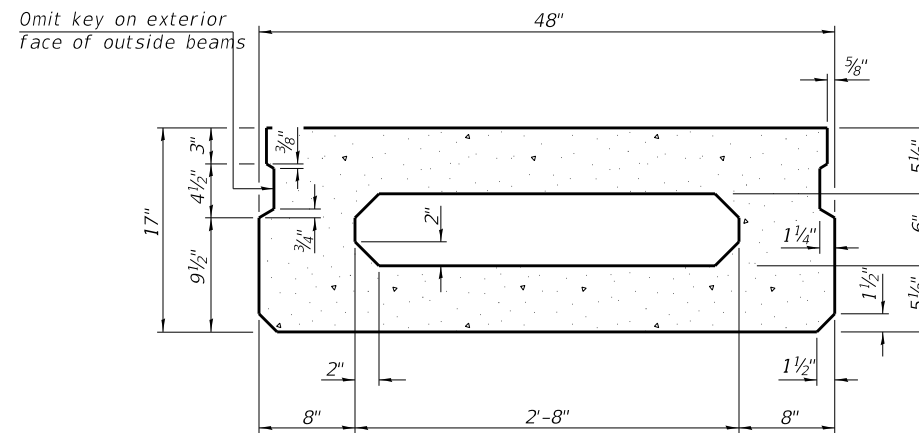
Expires 11-30-2018

TOTAL BILL OF MATERIAL

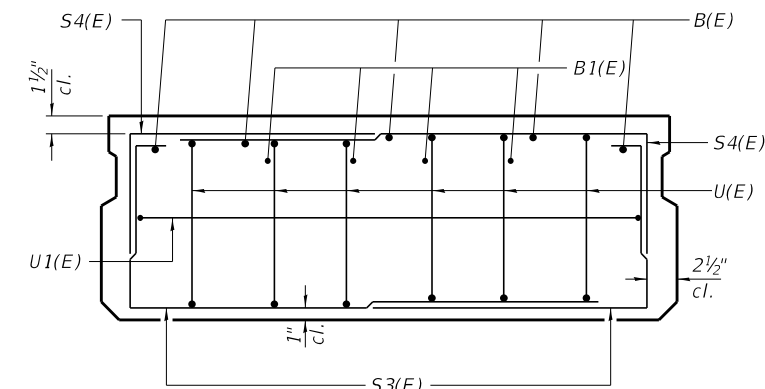
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			105
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		23.2	23.2
Concrete Encasement	Cu. Yd.		2.8	2.8
Precast Prestressed Conc. Deck Beams (17" Depth)	Sq. Ft.	1,128		1,128
Reinforcement Bars	Pound		2,590	2,590
Steel Railing, Type S-1	Foot	90		90
Furnishing Steel Piles HP10x42	Foot		245	245
Driving Piles	Foot		245	245
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Controlled Low-Strength Material	Sq. Ft.		42	42
Stone Riprap, Class A4 (Special)	Ton			270



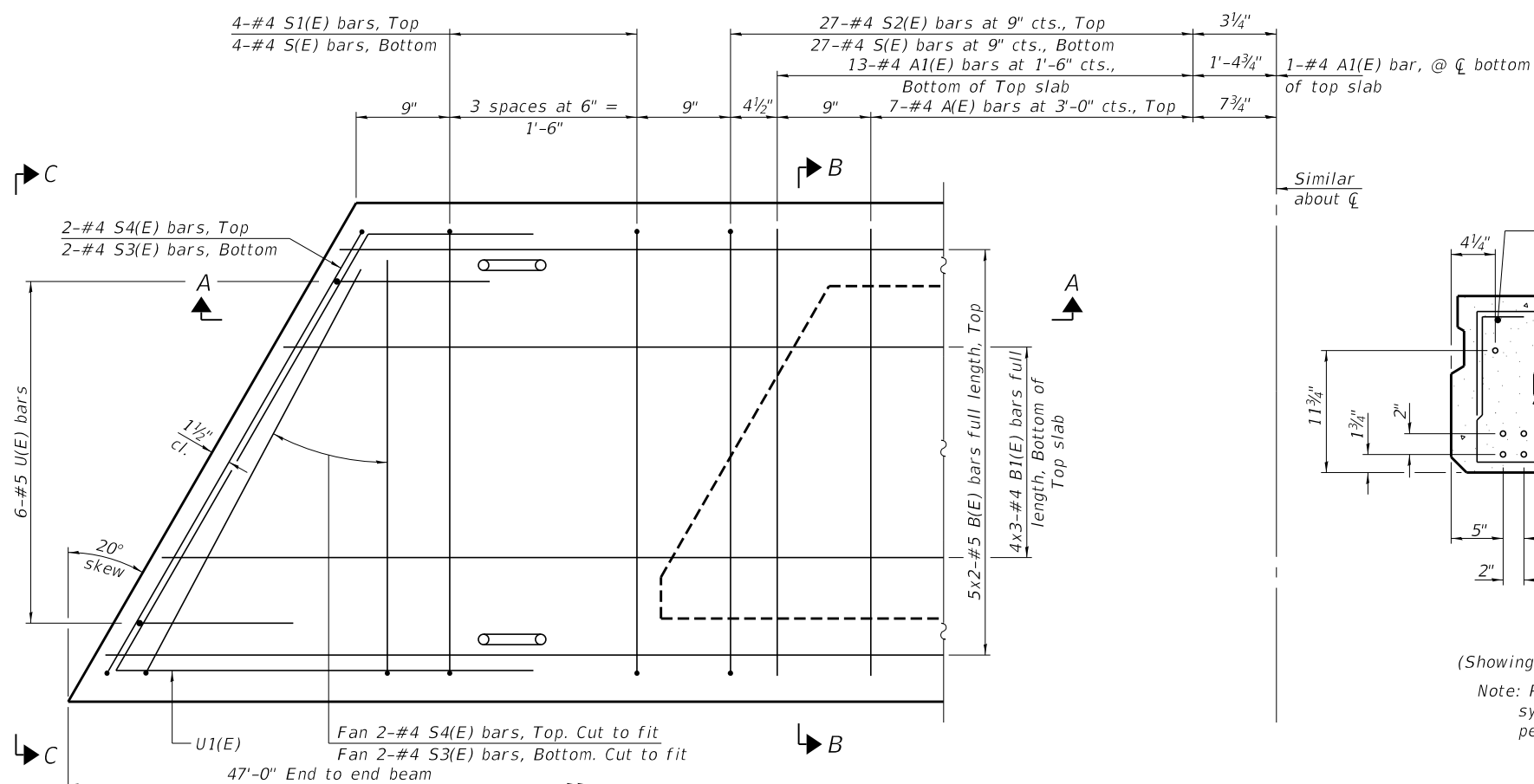
SECTION A-A



SECTION B-B
(Showing dimensions)

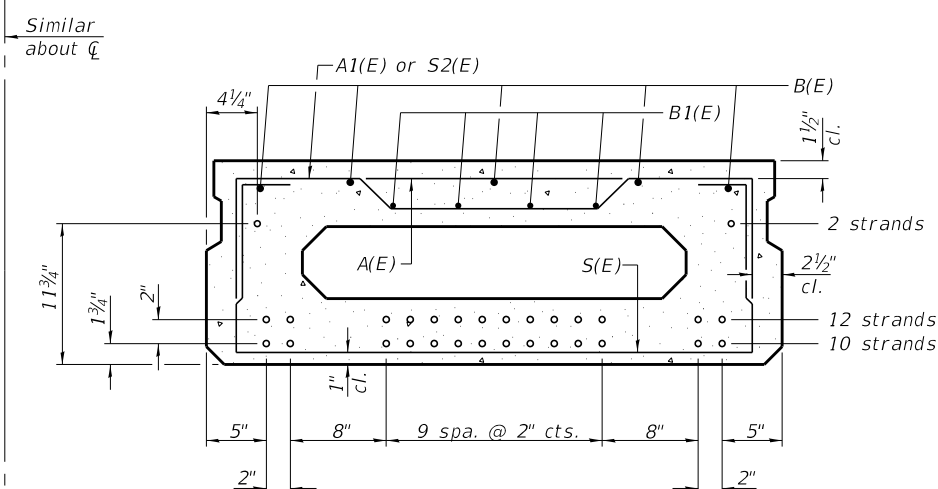


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
Bars indicated thus 5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	3'-7"	—
A1(E)	27	#4	3'-10"	—
B(E)	10	#5	24'-8"	—
B1(E)	12	#4	16'-11"	—
S(E)	62	#4	6'-9"	⌊
S1(E)	8	#4	5'-3"	⌊
S2(E)	54	#4	5'-6"	⌊
S3(E)	8	#4	4'-6"	⌊
S4(E)	8	#4	3'-9"	⌊
U(E)	12	#5	3'-8"	⌊
U1(E)	2	#4	7'-6"	⌊

Note:
See sheet 3 & 4 of 9 for additional details and Bill of Material.

PD-1748-L

2-17-2017

FILE NAME = 160131-sht-bridge.dgn	USER NAME = tmk	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - S.W.M.	REVISED -
PLOT DATE = 11/1/2017		DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

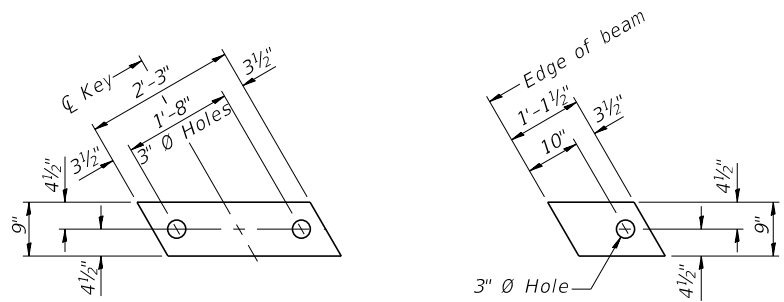
STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT

17" x 48" PPC DECK BEAM
STRUCTURE NO. 013-3251

SHEET NO. 2 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154A	15-05106-00-BR	CLAY	22	15
LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825		

ILLINOIS FED. AID PROJECT UR3X(B55)

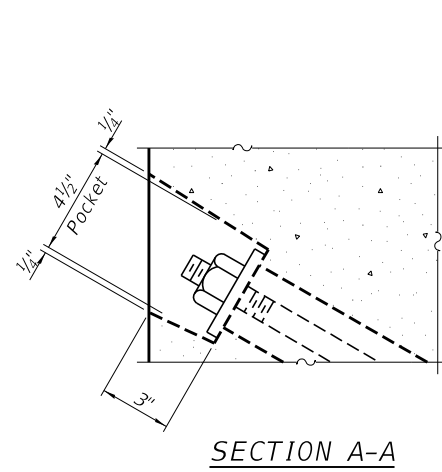


FABRIC BEARING PAD
(Interior - 10 Req'd.)

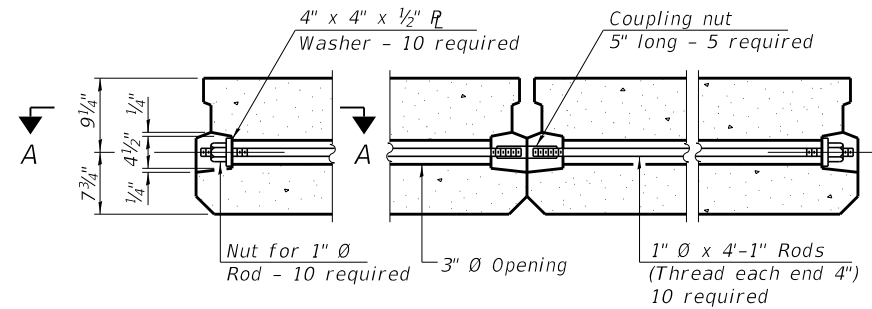
FABRIC BEARING PAD
(Exterior - 4 Req'd.)

FIXED

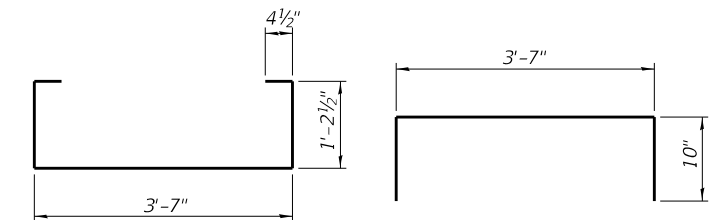
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

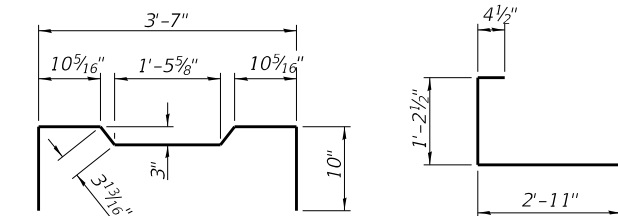


TYPICAL TRANSVERSE TIE ASSEMBLY



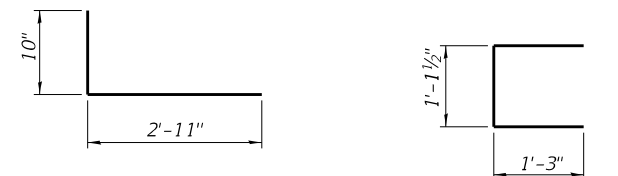
BAR S(E)

BAR S1(E)



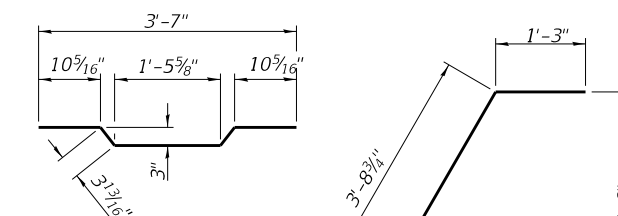
BAR S2(E)

BAR S3(E)



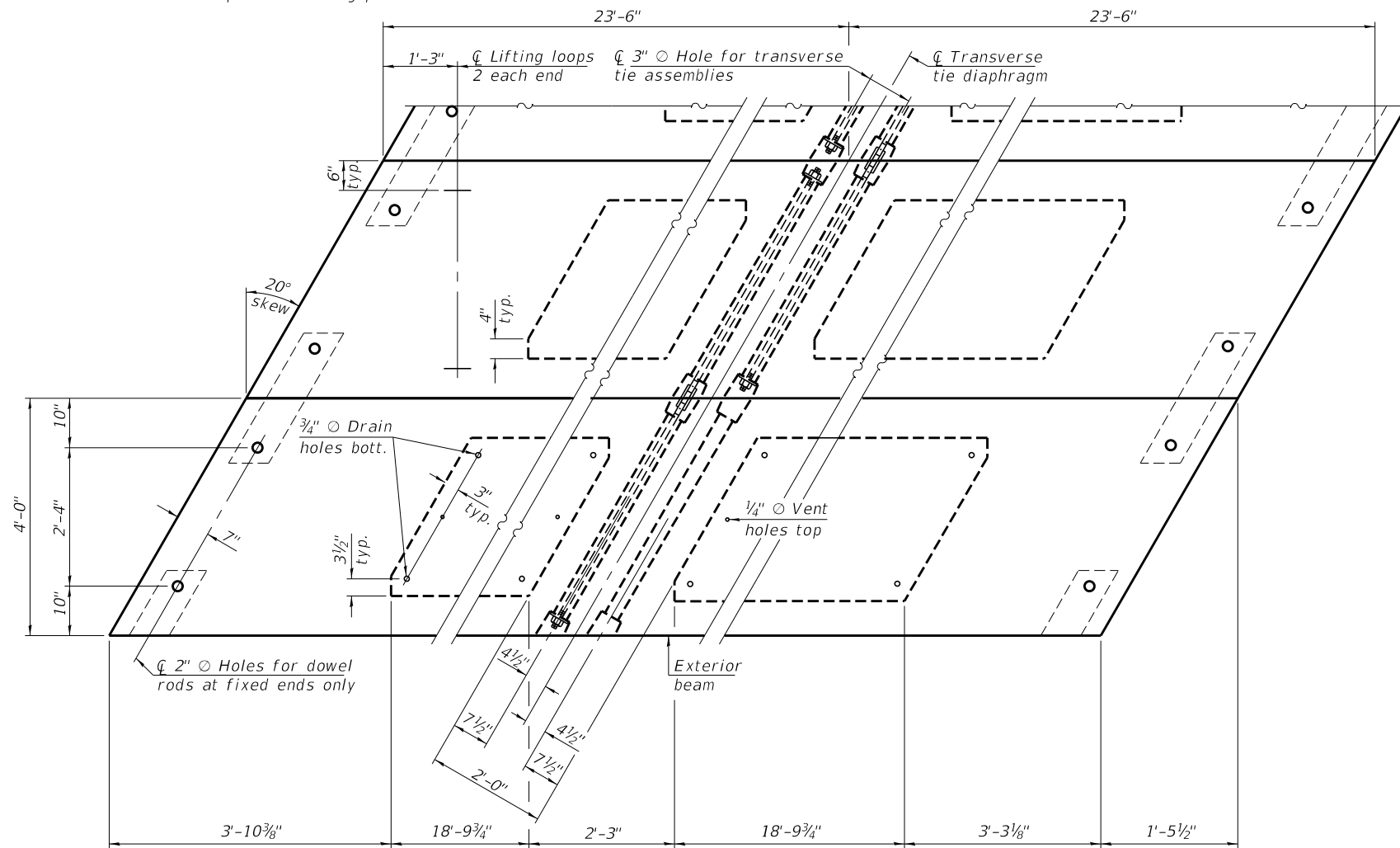
BAR S4(E)

BAR U(E)



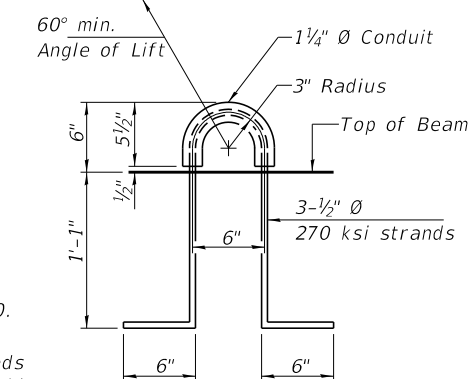
BAR A1(E)

BAR U1(E)



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi. Reinforcement bars designated (E) shall be epoxy coated.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,128
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PD-1748-LD 2-17-2017

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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 11/1/2017	CHECKED - S.W.M.	REVISED -

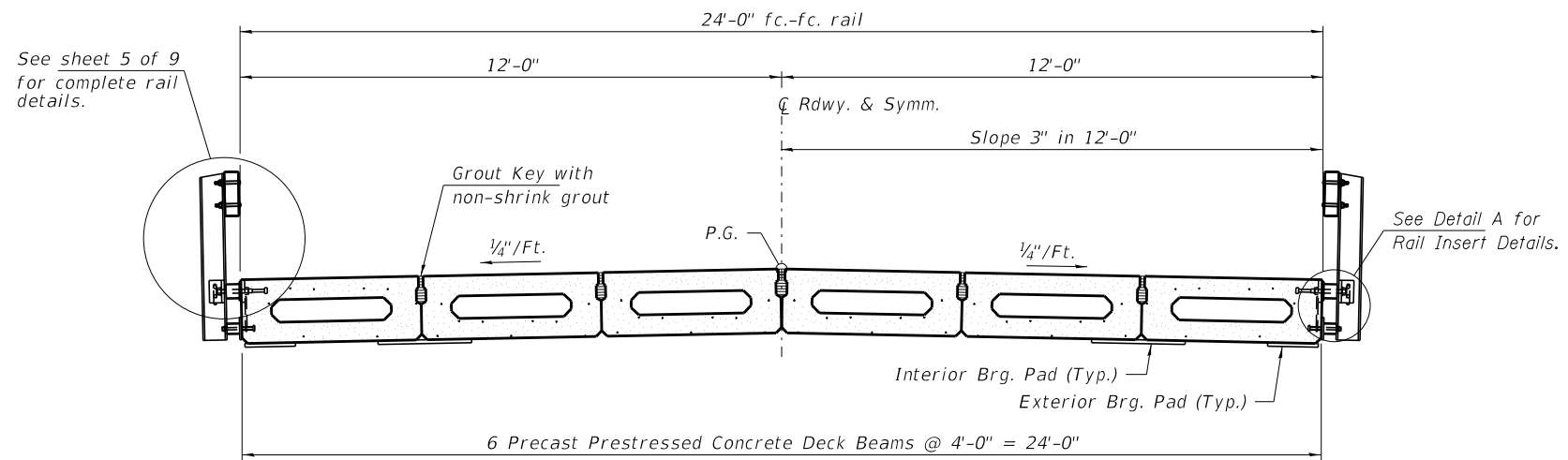
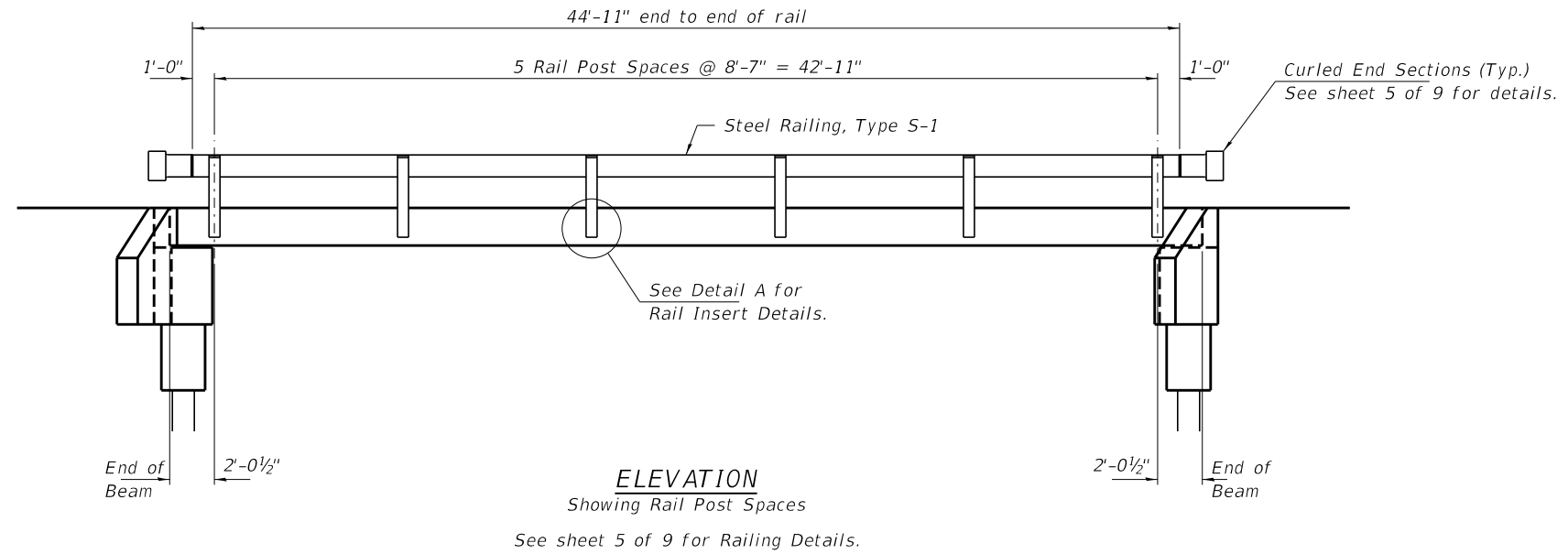
**STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT**

**17" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 013-3251**

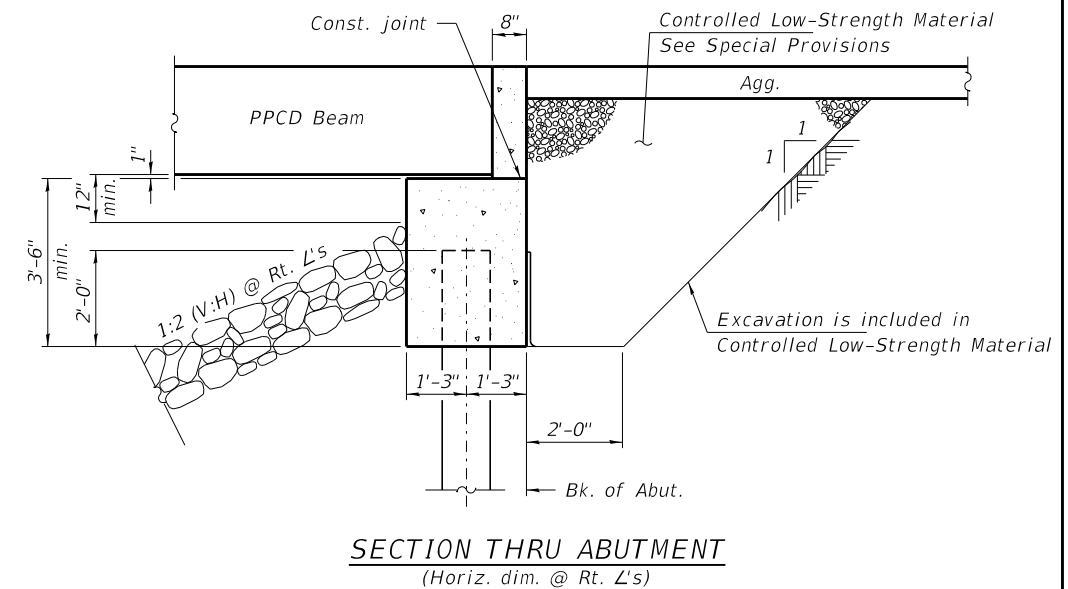
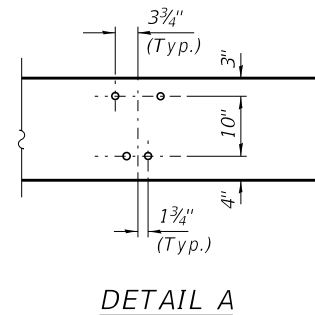
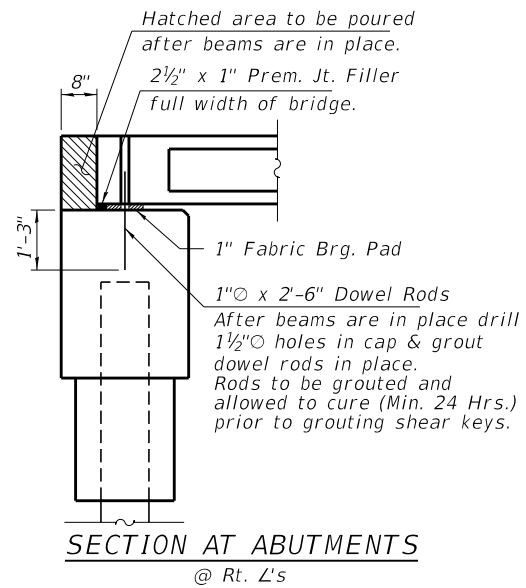
SHEET NO. 3 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
154A	15-05106-00-BR	CLAY	22	16
LOUISVILLE ROAD DISTRICT			CONTRACT NO. 95825	

ILLINOIS FED. AID PROJECT UR3X(855)



CROSS SECTION
 See sheets 2 & 3 of 9 for Superstructure.



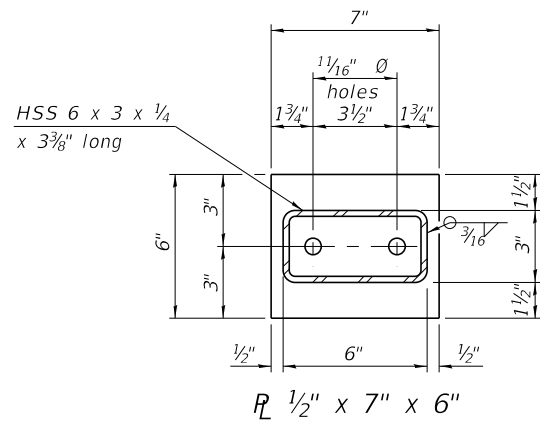
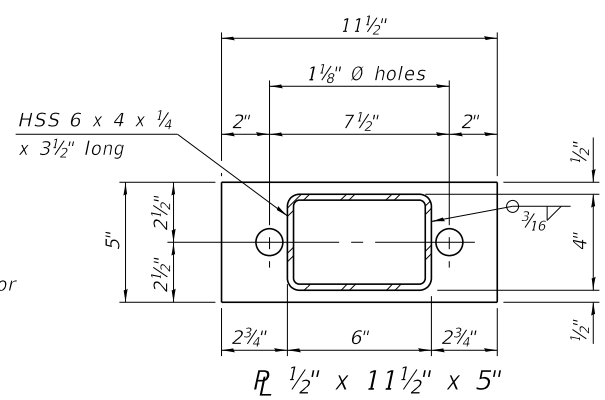
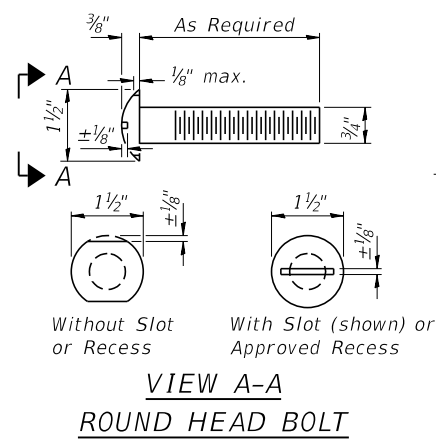
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PLOT DATE = 11/1/2017		DRAWN - R.D.H.	REVISED -
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STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

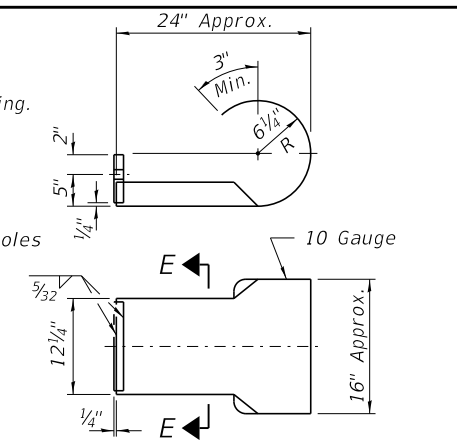
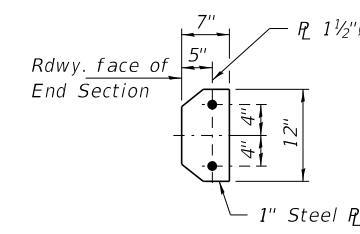
SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 013-3251

SHEET NO. 4 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825		
ILLINOIS		FED. AID PROJECT UR3X(855)		

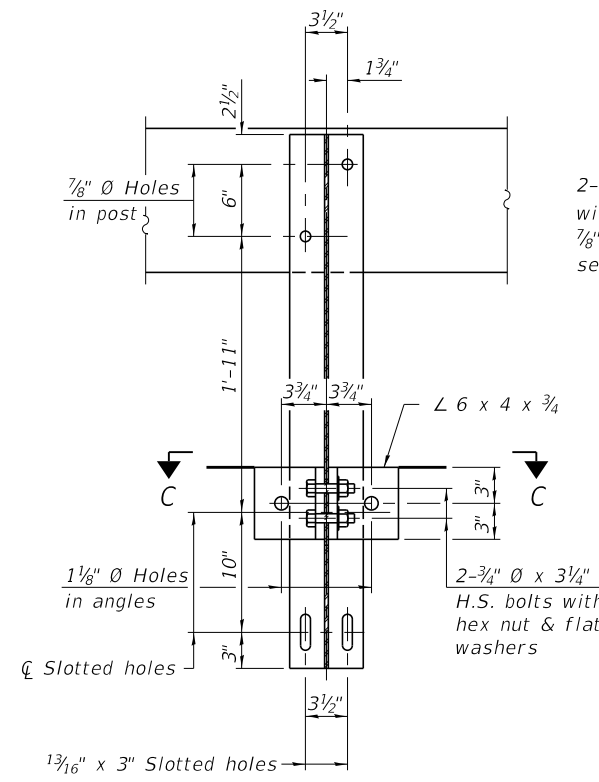


Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)

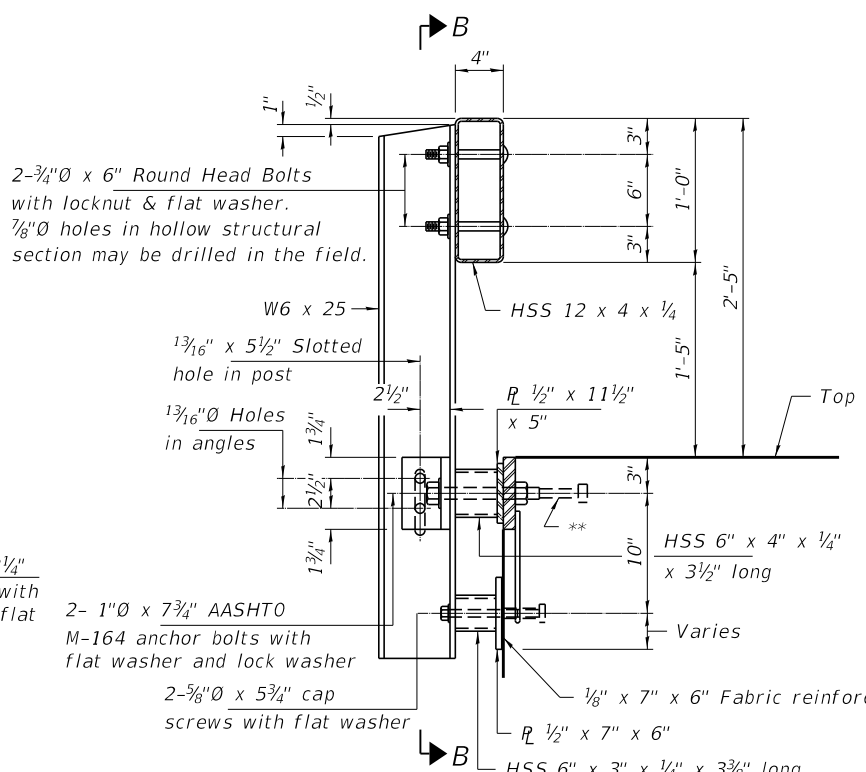


SECTION E-E

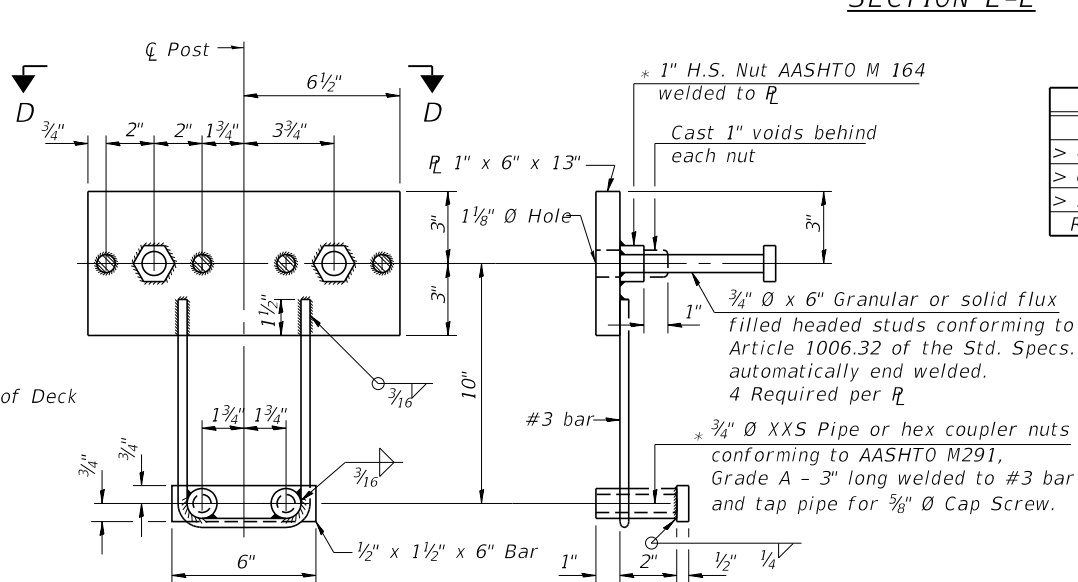
CURLED END SECTION DETAILS



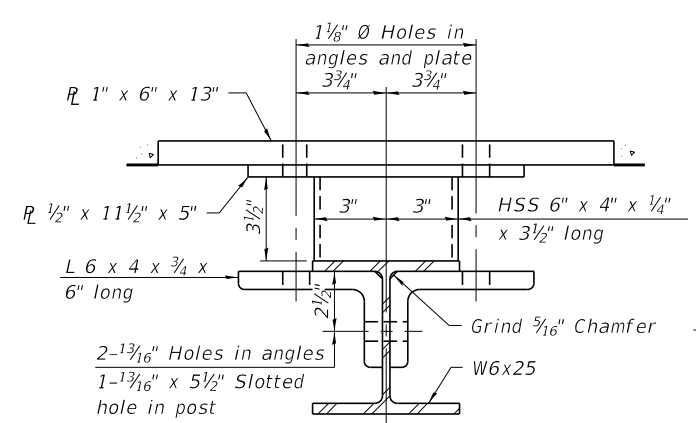
SECTION B-B



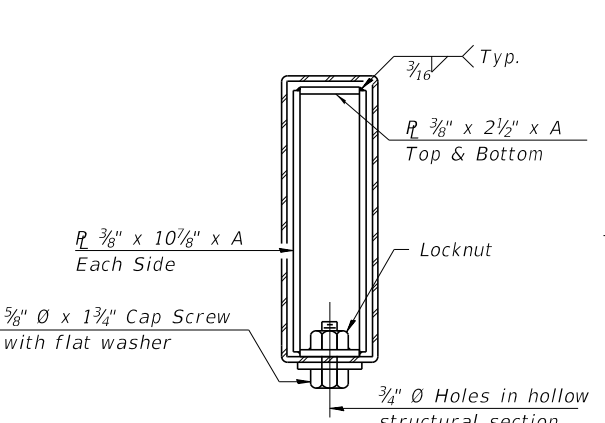
SECTION AT RAILING POST



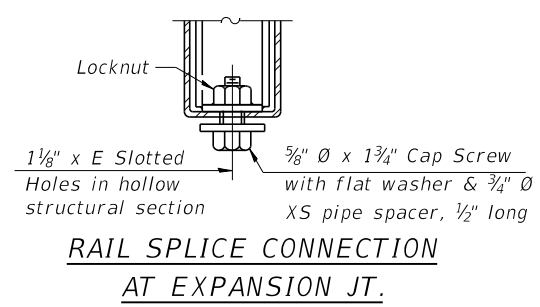
ANCHOR DEVICE



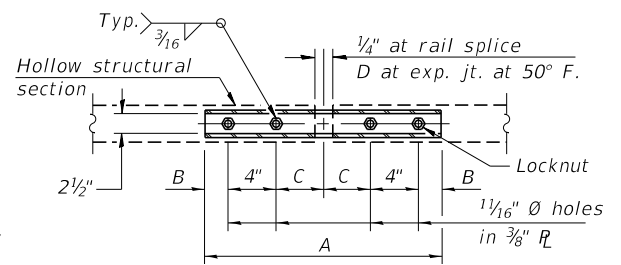
SECTION C-C



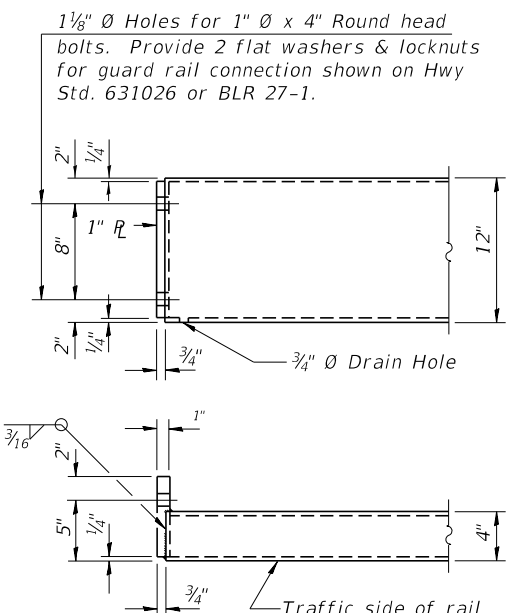
SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE R TYPICAL



END OF RAIL DETAILS

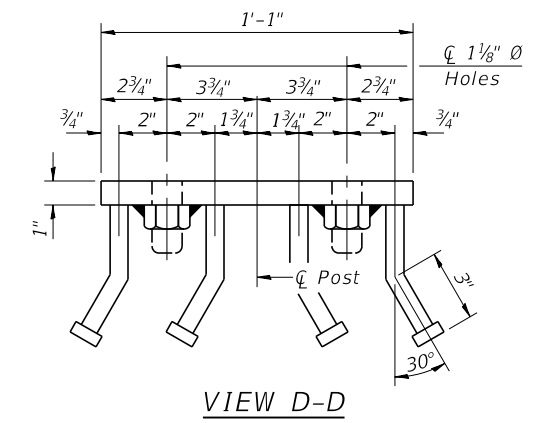
SPLICE DIMENSIONS

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.

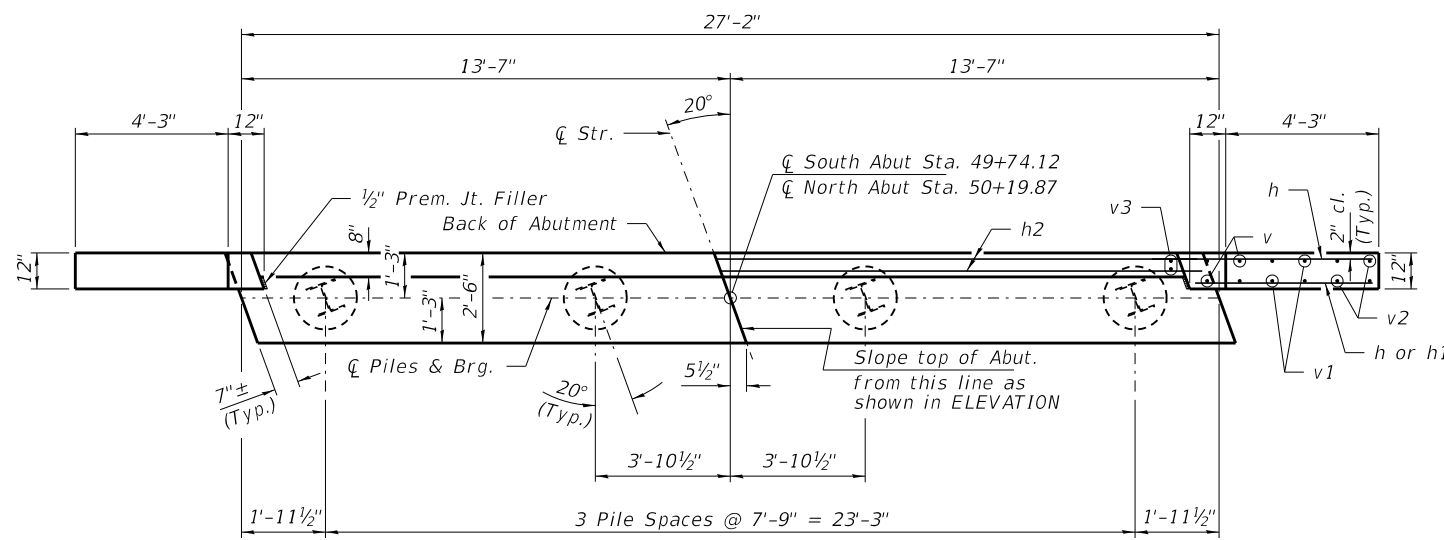
**The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



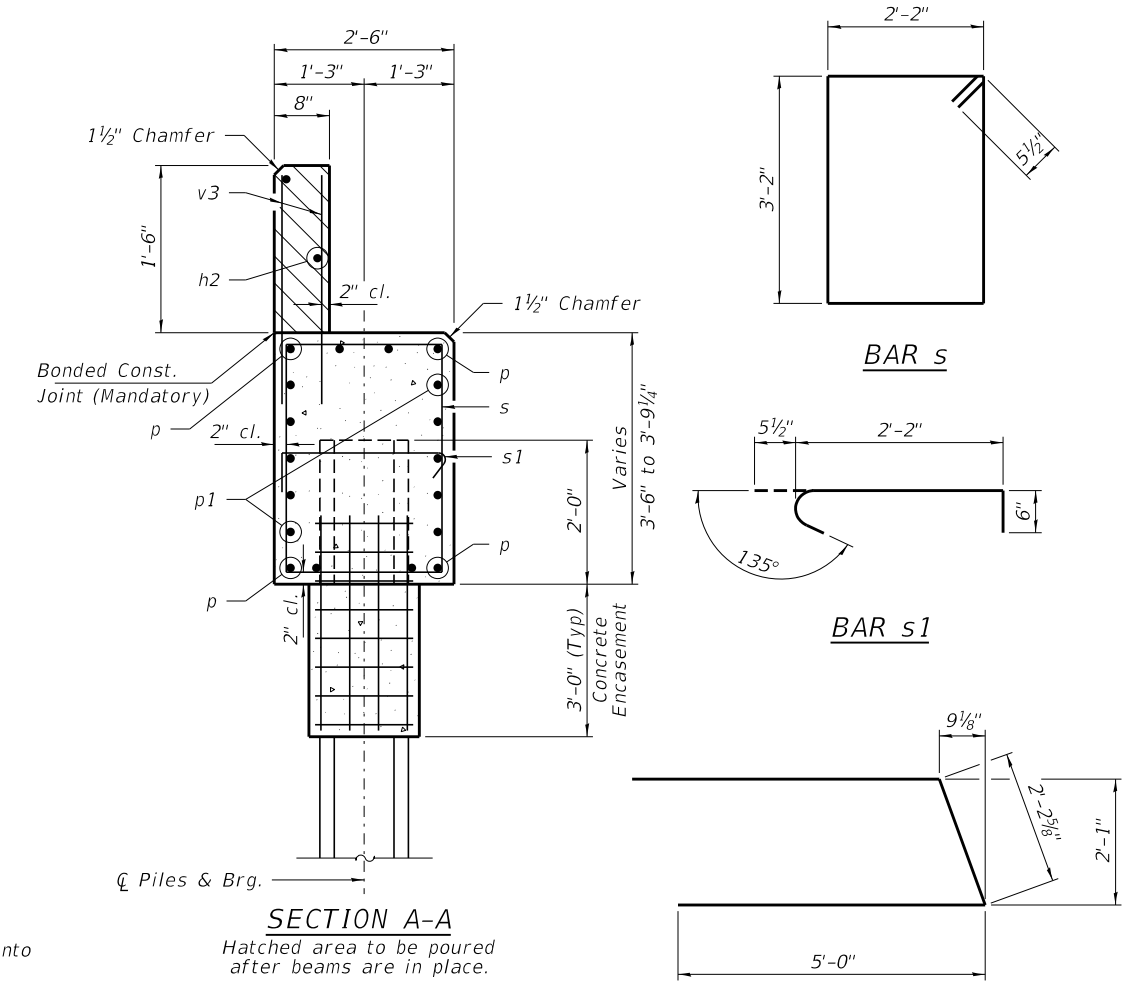
VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	90

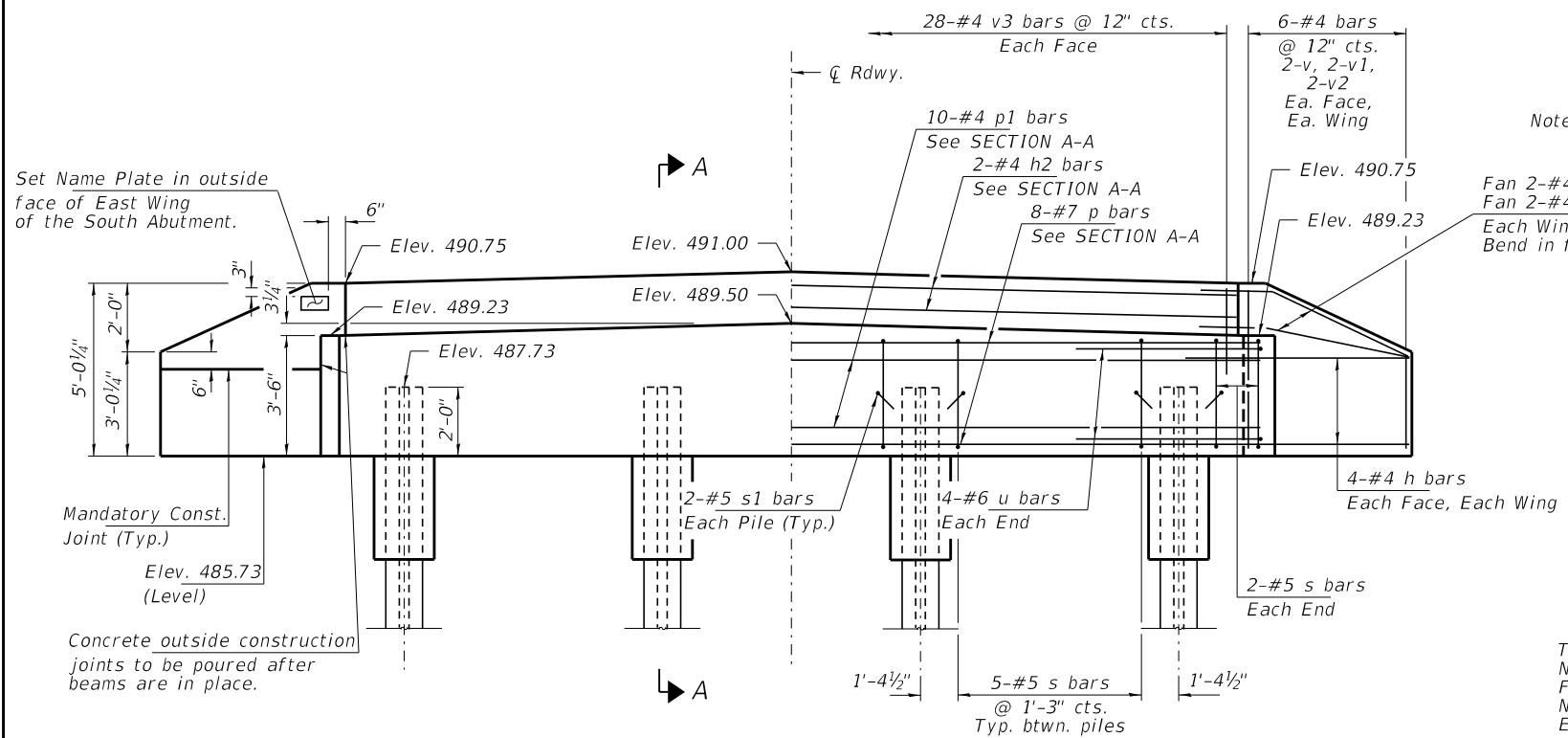


PLAN



SECTION A-A

Hatched area to be poured after beams are in place.



ELEVATION

Note: Extend h bars into abutment cap.

Fan 2-#4 h bars (B.F.)
Fan 2-#4 h1 bars (F.F.)
Each Wing
Bend in field.

PILE DATA

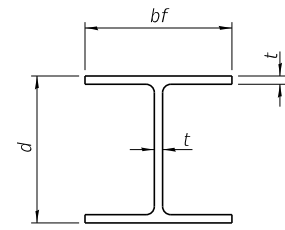
Type ----- Steel HP10x42
No. Req'd. (2 Abuts.) ----- *8
Factored Resistance Available (Rf) ----- 184 Kips/Pile
Nominal Required Bearing (Rn) ----- 334 Kips/Pile
Est. Length ----- 35 Ft/Pile

Notes: *Includes one test pile to be driven in a permanent location at the North Abutment.

The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

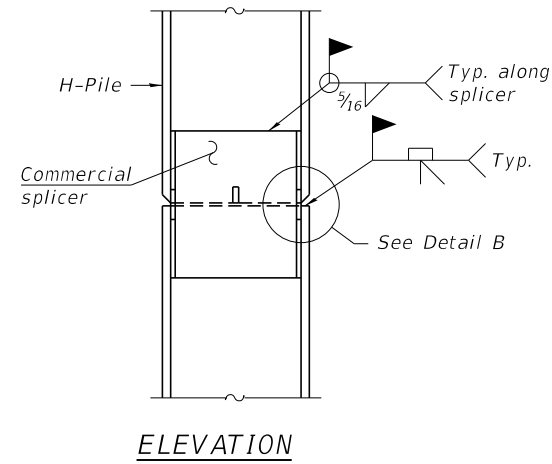
BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h	40	#4	6'-6"	—
h1	8	#4	5'-0"	—
h2	4	#4	26'-10"	—
p	16	#7	26'-10"	—
p1	20	#4	26'-10"	—
s	38	#5	11'-7"	U
s1	16	#5	3'-2"	J
u	16	#6	12'-3"	C
v	16	#4	4'-7"	—
v1	16	#4	3'-8"	—
v2	16	#4	2'-9"	—
v3	112	#4	2'-4"	—
Concrete Structures			Cu. Yd.	23.2
Concrete Encasement			Cu. Yd.	2.8
Reinforcement Bars			Pound	2,590
Steel Piles HP10x42			Foot	245
Test Pile Steel HP10x42			Each	1
Name Plates			Each	1

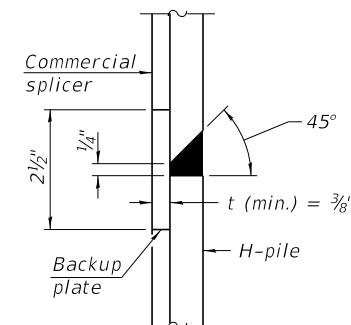


STEEL PILE TABLE

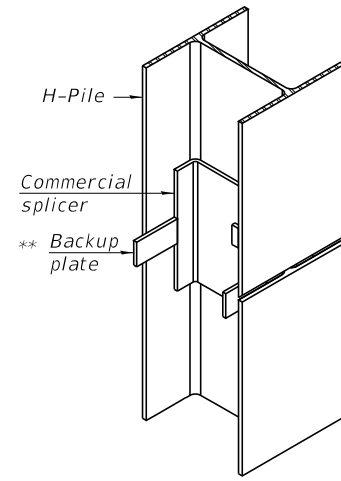
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

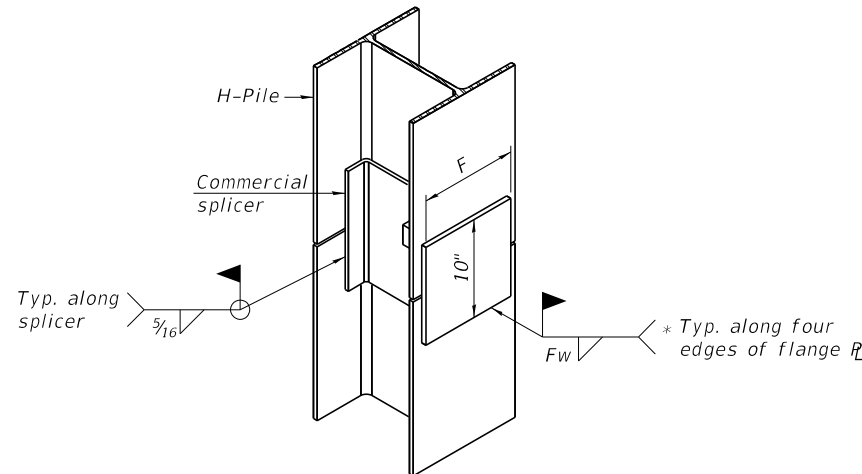


DETAIL "B"



ISOMETRIC VIEW

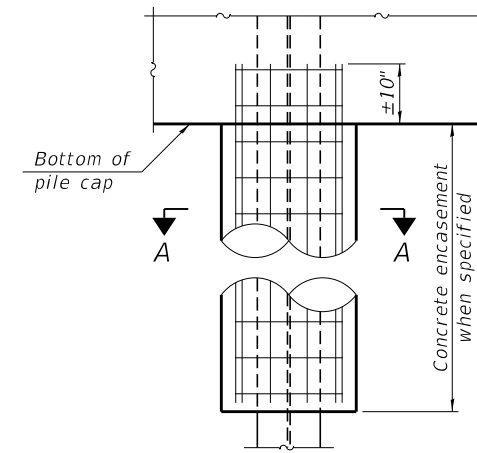
WELDED COMMERCIAL SPLICE



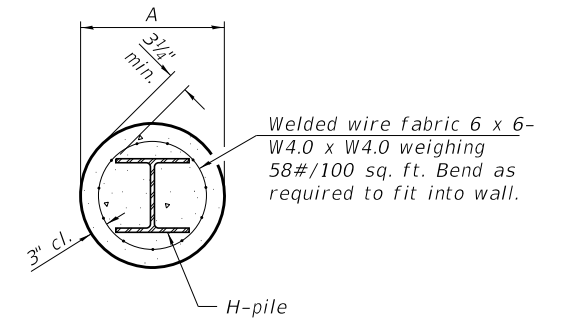
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

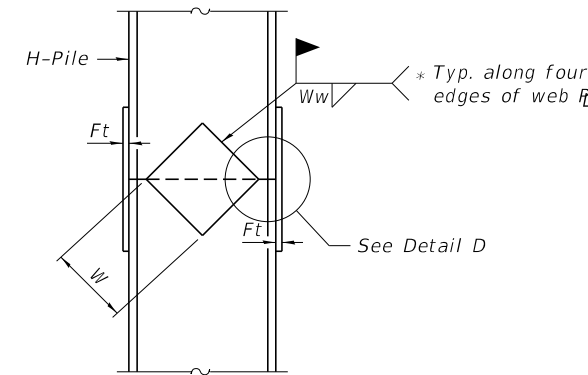


ELEVATION

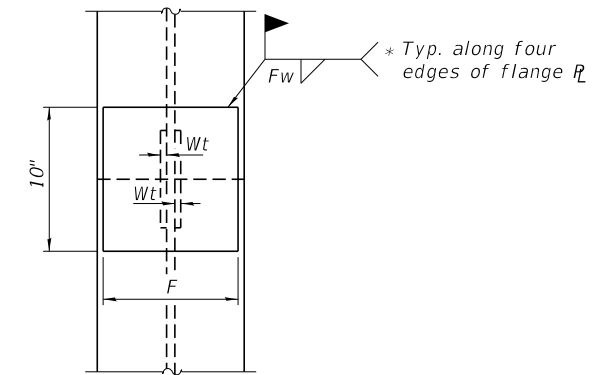


SECTION A-A

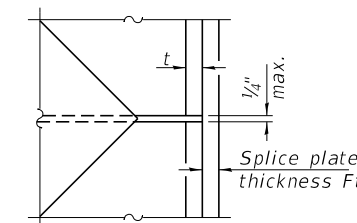
INDIVIDUAL PILE CONCRETE ENCASUREMENT
 (Forms for encasement may be omitted when soil conditions permit).



ELEVATION



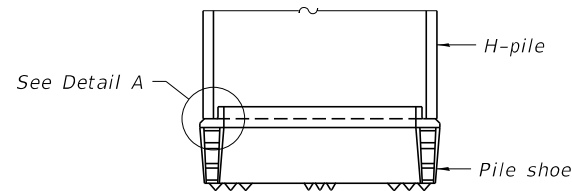
END VIEW



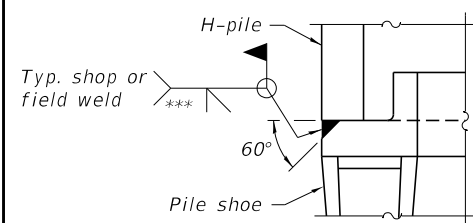
DETAIL D

WELDED PLATE FIELD SPLICE

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



ELEVATION



DETAIL A

SHOE ATTACHMENT

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

F-HP 2-17-2017

FILE NAME = 160131-sht-br1dge.dgn	USER NAME = tsmk	DESIGNED - L.A.P.	REVISD -	STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 013-3251	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - S.W.M.	REVISD -			154A	15-05106-00-BR	CLAY	22	20
	PLOT DATE = 11/1/2017	DRAWN - R.D.H.	REVISD -			LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825		
		CHECKED - S.W.M.	REVISD -			ILLINOIS		FED. AID PROJECT UR3X(855)		

NOBLE		BORING No. B-1		water level reading						
ENGINEERING CONSULTANTS		County: Clay, IL	Sheet No. 1 of 2	1st encounter: 9'						
Client: Clay County Highway Dept.		Weather: Overcast	Temperature: 40's	water level reading						
Driller: Noble Engineering Consultants		Date Start: 2-15-13	Surface Elevation: Bridge Deck	@completion	cave					
Location: Structure #3075		Date Finished: 2-15-13	Driller: Tony Schocker	Backfill:	Soil cuttings					
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	W %	USC Class.	Elev.**
1										(488.5)
2	SS-1	1.0'-2.5'	7	3-4-3	40	1.75	0.0'-3.5' silt, clay, organics, etc, FILL, dark brown	19.6	FILL	-2
3										-3
4	SS-2	3.5'-5.0'	8	2-3-5	100	1.1		28.9	CL	-4
5										-5
6	SS-3	6.0'-7.5'	7	2-3-4	100	0.9	3.5'-14.0' SILTY CLAY, trace sand, wet sand seam at 9', medium to stiff	18.8	CL	(483.5)
7							gray mottled brown			-7
8										-8
9	SS-4	8.5'-10.0'	5	3-2-3	100	0.8		20.6	CL	-9
10										-10
11										-11
12										-12
13										-13
14	SS-5	13.5'-15.0'	14	3-5-9	100	1.8	14.0'-24.0' CLAY, trace sand, stiff to hard, blue gray	17.8	CL	(475.5)
15										-15
16										-16
17										-17
18										-18
19	SS-6	18.5'-20.0'	36	10-19-17	100	4.5+		23.8	CL	-19
20										-20
21										-21
22										-22
23										-23
24	SS-7	23.5'-25.0'	106	19-41-65	100	4.5+	24.0'-32.9' HIGHLY WEATHERED SHALE, gray	13.4		(465.5)
25										-25
26										-26
27										-27
28										-28
29										-29
30	SS-8	28.5'-30.0'	100+	100/2"	50	4.5+		15.8		-30
Drilling Method: HSA (3-3/4" id)				comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder				
Depth: 0' to 32.9'						** ground surface elevation at boring location is estimated and is not surveyed				
Drill Rig: Mobile B-47										
Sampling: split-spoon (SS)										

NOBLE		BORING No. B-1		water level reading						
ENGINEERING CONSULTANTS		County: Clay, IL	Sheet No. 2 of 2	1st encounter: 9'						
Client: Clay County Highway Dept.		Weather: Overcast	Temperature: low 40's	water level reading						
Driller: Noble Engineering Consultants		Date Start: 2-15-13	Surface Elevation: Bridge Deck	@completion	cave					
Location: Structure #3075		Date Finished: 2-15-13	Driller: Tony Schocker	Backfill:	Soil Cuttings					
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	W %	USC Class.	Elev.**
31										-32
32							24.0'-32.9' HIGHLY WEATHERED SHALE, gray			(456.5)
33										-34
34							AR 32.9'			
Drilling Method: HSA (3-3/4" id)				comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder				
Depth: 0 to 32.9'						** ground surface elevation at boring location is estimated and is not surveyed				
Drill Rig: Mobile B-47										
Sampling: split-spoon (SS)										

BORING-1

NOBLE							BORING No. B-2	water level reading		
ENGINEERING CONSULTANTS				County: Clay, IL			Sheet No. 1 of 1			1st encounter: 8'
Client: Clay County Highway Dept.				Weather: sleet			Temperature: 30's			water level reading
Driller: Noble Engineering Consultants				Date Start: 2-27-13			Surface Elevation: Bridge Deck			@completion 14'
Location: Structure #3075				Date Finished: 2-27-13			Driller: Tony Schocker			Backfill: Soil cuttings
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	W %	USC Class.	Elev.**
1										(488.0)
2	SS-1	1.0'-2.5'	9	5-5-4	100	2.2	0.0'-7.0 silt, clay, organics, etc, FILL, dark brown	19.6	FILL	-2
3										-3
4	SS-2	3.5'-5.0'	5	1-2-3	80	-		28.9	FILL	-4
5										-5
6	SS-3	6.0'-7.5'	7	1-3-4	100	0.9	7.0'-9.0' SILTY CLAY, trace sand, medium, gray mottled brown	18.8	CL	(483.0)
7										-7
8										-8
9	SS-4	8.5'-10.0'	6	1-4-2	40	-	9.0'-15.0' SILTY FINE TO MEDIUM SAND, medium dense, saturated, gray	20.6	SM	-9
10										-10
11										-11
12										-12
13										-13
14	SS-5	13.5'-15.0'	15	2-6-9	80	-	15.0'-19.5' CLAY, trace sand, hard, blue gray	17.8	SM	(475)
15										-15
16										-16
17										-17
18										-18
19	SS-6	18.5'-20.0'	82	10-18-64	100	4.5+		23.8	CL	-19
20										-20
21										-21
22										-22
23										-23
24	SS-7	23.5'-25.0'	100+	100/3"	100	-	19.5'-28.1' HIGHLY WEATHERED SHALE, gray	13.4		(465)
25										-25
26										-26
27										-27
28										-28
29							AR 28.1			-29
30										
Drilling Method: HSA (3-3/4" id)				comments * Qp test is an estimate of the unconfined compressive strength performed						
Depth: 0' to 28.1'				by a compact calibrated spring loaded cylinder						
Drill Rig: Mobile B-47				** ground surface elevation at boring location is estimated and is not surveyed						
Sampling: split-spoon (SS)										

BORING-2

FILE NAME = 160131-sht-bridge.dgn	USER NAME = tmk	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 013-3251	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -			154A	15-05106-00-BR	CLAY	22	22
PLOT SCALE = #SCALE#		DRAWN - R.D.H.	REVISED -			LOUISVILLE ROAD DISTRICT		CONTRACT NO. 95825		
PLOT DATE = 11/1/2017		CHECKED - S.W.M.	REVISED -	SHEET NO. 9 OF 9 SHEETS		ILLINOIS FED. AID PROJECT UR3X(855)				