03-08-2019 LETTING ITEM 157

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 97	16-09101 -05-BR	LIVINGSTON	23	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 87694	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM – BRIDGE

PROJECT EIIZ(942)
SECTION 16–09101–05–BR
ESMEN ROAD DISTRICT
LIVINGSTON COUNTY
T.R. 97 / 2200 N. ROAD
PEARSON BRIDGE
PROPOSED STRUCTURE NO. 053–4222
C–93–009–19

INDEX OF SHEETS

HIGHWAY STANDARDS:

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
701901-08	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

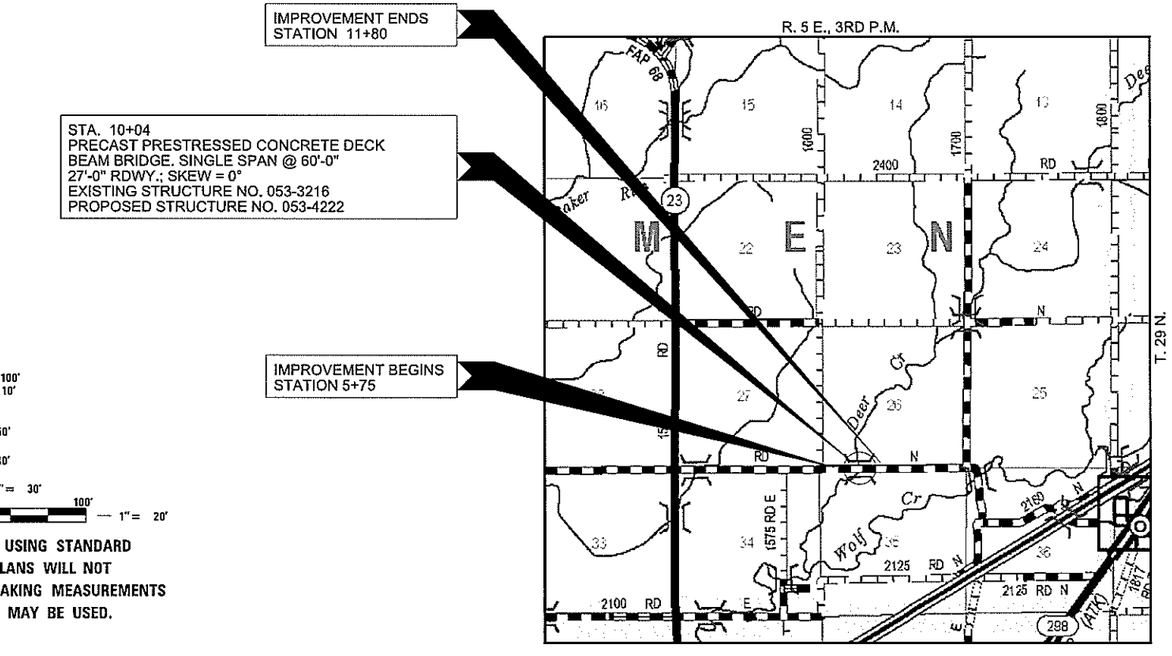
COMMONWEALTH EDISON
1910 S. BRIGGS STREET
JOLIET, IL 60433

FRONTIER COMMUNICATIONS
109 E. MARKET STREET, 2ND FLOOR
BLOOMINGTON, IL 61701

IMPROVEMENT ENDS STATION 11+80

STA. 10+04
PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE. SINGLE SPAN @ 60'-0"
27'-0" RDWY.; SKEW = 0°
EXISTING STRUCTURE NO. 053-3216
PROPOSED STRUCTURE NO. 053-4222

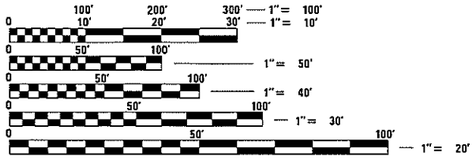
IMPROVEMENT BEGINS STATION 5+75



LOCATION MAP

APPROXIMATE SCALE: 0 ½ MILE

NET LENGTH OF SECTION = 605 FEET = 0.114 MILES



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
DESIGN SPEED:	30 MPH
DESIGN TRAFFIC:	125 ADT

LOCATION OF SECTION INDICATED THUS: –

N

WARNING

CALL JULIE TOLL FREE 1-800-892-0123

CALL 811 BEFORE YOU DIG

DIG NO: A1321332

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 12/4 2018
Clay Metcalf
COUNTY ENGINEER

APPROVED 12/3 2018
Bruce Nelson
TOWNSHIP COMMISSIONER

PASSED 12/10 2018
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review 12/10 2018
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 11/27/2017
LICENSED PROFESSIONAL ENGINEER
STEVEN W. MEGGINSON
062-50051
STATE OF ILLINOIS
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
184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

PROJECT NUMBER: 17.0166.130 DATE: 11/27/18

CONTRACT NO. 87694 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010 UNIT	TOTAL
^	20200100	EARTH EXCAVATION	CU YD	527
	20300100	CHANNEL EXCAVATION	CU YD	135
	28100107	STONE RIPRAP, CLASS A4	SQ YD	270
	28200200	FILTER FABRIC	SQ YD	270
	35100100	AGGREGATE BASE COURSE, TYPE A	TON	963
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,515
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	496
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	158
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	93
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	119
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50300225	CONCRETE STRUCTURES	CU YD	23.4
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,620
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,900
*	50900205	STEEL RAILING, TYPE S1	FOOT	116
	51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	405
	51202305	DRIVING PILES	FOOT	405
	51203200	TEST PILE METAL SHELLS	EACH	1
	51500100	NAME PLATES	EACH	1
^	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	130
	6110010	MOBILIZATION	L SUM	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^	X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	100
^	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
^	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	110

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU.YD.	CHANNEL EXCAVATION CU.YD.	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE CU.YD.	EMBANKMENT REQUIRED CU.YD.	EARTHWORK BALANCE CU.YD.
TR 97							
STA. 8+00 TO STA. 9+73.33	417		25.00%	100.00%	313	136	177
STA. 9+73.33 TO STA. 10+34.67		135	25.00%	70.00%	71	12	59
STA. 10+34.67 TO STA. 11+80	110		25.00%	100.00%	82	72	10
ENTRANCES						84	-84
TOTAL	527	135			466	304	162
USE	530	135					162

WASTE 162 CU YDS

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", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2019; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.

2) ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3) 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.

4) ANY REFERENCE TO HIGHWAY STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.

5) THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON 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.

6) THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

7) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE BASE COURSE	2.05 TON/CU YD
HOT MIX ASPHALT	112 LBS/SQ YD./INCH THICKNESS
AGGR SHOULDER, TYPE B	2.0 TON/CU YD

BITUMINOUS MATERIALS RATES

SURFACE TYPE	RESIDUAL RATE
AGGREGATE BASE	0.250 LB/SQ FT
MILLED HMA OR PCC (TACK COAT)	0.050 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.050 LB/SQ FT
TACK COAT (BETWEEN LIFTS)	0.025 LB/SQ FT

8) THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

9) 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) = 0.3 ACRES

10) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

11) COMMITMENTS:
NONE

ROADWAY SCHEDULE

LOCATION	AGGREGATE BASE COURSE TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE IL 19.0, N50	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	AGGREGATE SHOULDERS TYPE B	POROUS GRANULAR EMBANKMENT (Special)
T.R. 97	35101100	40600275	40600290	40602978	40603310	48101500	X2070302
	TON	POUND	POUND	TON	TON	TON	TON
STA. 8+00 TO STA. 9+73.33	642	1842	363	115.5	68.0	88	50
STA. 10+34.67 TO STA. 11+80	221	672	133	42.0	25.0	31	50
ENTRANCES	100						
TOTAL	963	2515	496	158	93	119	100

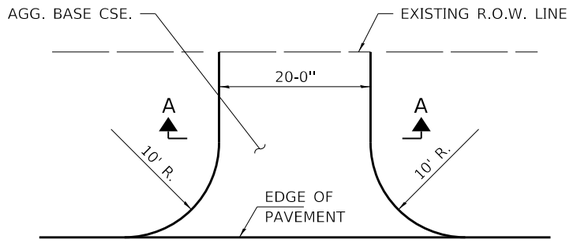
FILE NAME = 170166-sht-summary.dgn | USER NAME = rhoslck | DESIGNED - J.W.F. | REVISED -
HAMPTON, LENZINI AND RENWICK, INC. | DRAWN - M.M.P. | REVISED -
3995 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 | PLOT SCALE = $SCALE$ | CHECKED - S.W.M. | REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 | PLOT DATE = 11/29/2018 | DATE - 11/27/18 | REVISED -

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

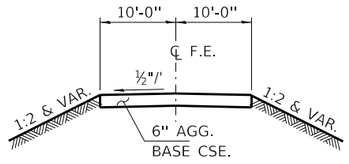
SUMMARY OF QUANTITIES AND GENERAL NOTES

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

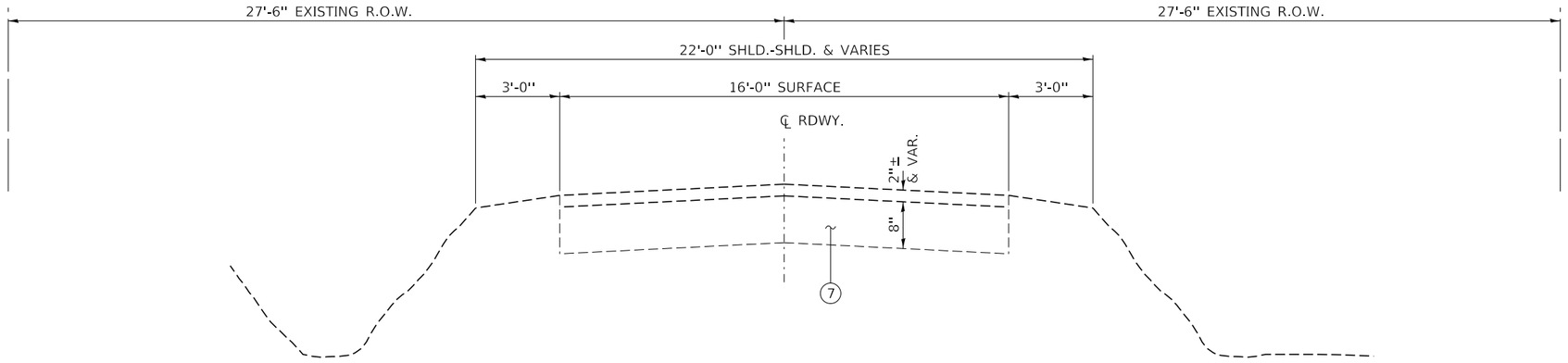
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	2
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
ILLINOIS	FED. AID PROJECT ELZ(942)			



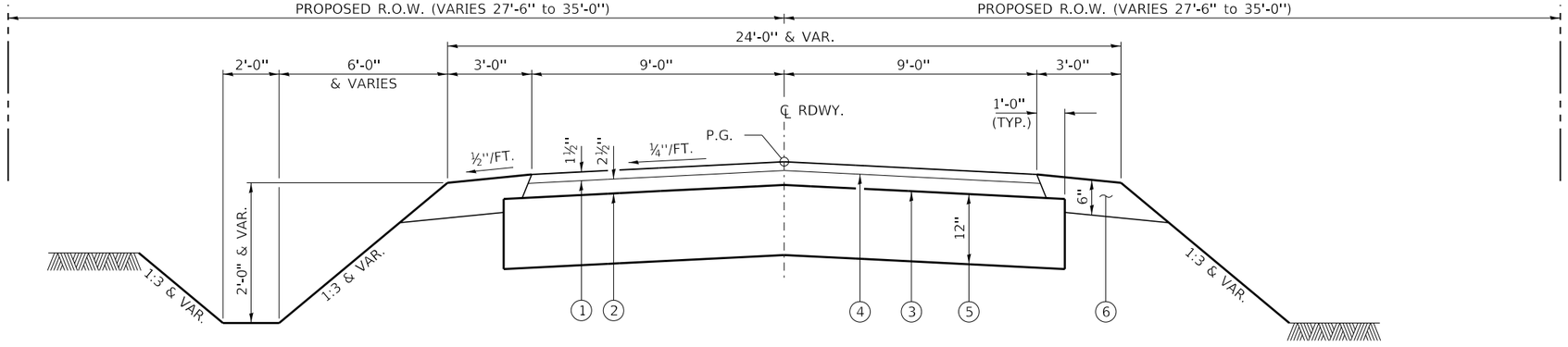
FIELD ENTRANCE DETAIL



SECTION A-A



EXISTING TYPICAL CROSS SECTION
STA. 8+00 TO 11+80



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION
STA. 5+75 TO 11+80

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	TR 97	TR 97
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NONE
DENSITY TEST METHOD	CORES	CORES
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

TRANSITIONS FROM THE PROPOSED SHOULDERS TO THE EXISTING SHOULDERS ARE TO BE CONSTRUCTED FROM STA. 8+00 TO 8+50 AND STA. 11+30 TO STA. 11+80.
SEE SHEET 5 FOR TRANSITION AT BRIDGE.

LEGEND

1. HMA SURFACE COURSE, MIX C, N50 (1½" THICKNESS)
2. HMA BINDER COURSE, IL.-19.0, N50 (2½" THICKNESS)
3. BITUMINOUS MATERIALS (PRIME COAT)
4. BITUMINOUS MATERIALS (TACK COAT)
5. AGGREGATE BASE COURSE, TYPE A (12")
6. AGGREGATE SHOULDERS, TYPE B (6")
7. EXISTING OIL & CHIP SURFACE (2") ON AGGREGATE BASE (8")

FILE NAME = 170166-sht-typsections.dgn	USER NAME = rhoslck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - M.M.P.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

STATE OF ILLINOIS
LIVINGSTON COUNT HIGHWAY DEPARTMENT

TYPICAL CROSS SECTIONS

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	3
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
		ILLINOIS	FED. AID PROJECT ERZ(942)	

AMY & MATTHEW MACKINSON
SW¼, SEC 26, T. 29 N., R. 5 E., 3RD P.M.

SECTION CORNER
MAG NAIL (SET)
N. 1558886.065
E. 9003786.796

MAG NAIL IN POST
28.10'
23.53'
54.84'
CP#2
BM#2

P.O.T. STA. 6+50.01
MAG NAIL (SET)
N. 1558893.624
E. 904891.501

STA. 9+00
CONSTRUCT 20' F.E.
PIPE CULVERTS, CL D, TY1, 18"
LENGTH = 42 FOOT
25' LT. STA. 8+75 U.S.F.L. = 653.3
29' LT. STA. 9+17 D.S.F.L. = 653.1
EXISTING CMP TO BE REMOVED

PIPE CULVERTS, CL D, TY1, 18"
LENGTH = 20 FOOT
33' LT. STA. 9+77 U.S.F.L. =
33' LT. STA. 9+97 D.S.F.L. =
EXISTING TILE TO BE REMOVED

STA. 10+60
CONSTRUCT 20' F.E.
PIPE CULVERTS, CL D, TY1, 18"
LENGTH = 34 FOOT
27' LT. STA. 10+77 U.S.F.L. = 652.9
30' LT. STA 10+43 D.S.F.L. = 651.5
EXISTING CMP TO BE REMOVED

3.04' OFFSET FROM SECTION LINE
BM#3
81.09'
24.67'
25.89'
CP#3
MAG NAIL IN TREE ROOT

P.O.T. STA. 13+50
MAG NAIL (SET)
N. 1558898.429
E. 905591.444

SECTION CORNER
T.S. FOUND
N. 1558904.238
E. 906443.372

N

0 20' 40'
GRAPHIC SCALE

GRASS
CROPS
CREEK
DEER
PROPOSED R.O.W. LINE
CONSTRUCTION LIMITS
TR 97 / 2200N ROAD
OIL & CHIP SURFACE
NORTH LINE NW¼, 39-29-5
27.5' R.O.W.
27.5' EXIST
8+80.00 45.00' LT
8+80.00 35.00' LT
8+80.00 27.50' LT
9+20.00 45.00' LT
9+20.00 35.00' RT
10+40.00 55.00' LT
10+40.00 35.00' LT
10+80.00 55.00' LT
10+80.00 35.00' LT
11+50.00 27.50' LT
8+00.00 27.50' RT
9+25.00 35.00' RT
9+66.00 35.00' RT
10+25.00 35.00' RT
11+00.00 27.50' RT
9+25.00 66.00' RT
9+66.00 66.00' RT
+00 F.E.
+46 F.E.
+60 F.E.
+85 P.E.
+09 P.E.
+50
+30
18" CMP
12" CMP
90°
BM1
BM3
CP#1
20" 18" 24" 36" 10"

IMPROVEMENT BEGINS STATION 5+75

IMPROVEMENT ENDS STATION 11+80

STA. 9+46
CONSTRUCT 20' F.E.
PIPE CULVERTS, CL D, TY1, 18"
LENGTH = 34 FOOT
31' RT. STA. 9+29 U.S.F.L. = 652.3
33' RT. STA. 9+63 D.S.F.L. = 650.5
EXISTING CMP TO BE REMOVED

TEMPORARY EASEMENT

STA. 10+04
PRECAST PRESTRESSED CONCRETE DECK
BEAM BRIDGE. SINGLE SPAN @ 60'-0"
27'-0" RDWY: 0° SKEW
PROPOSED SN 053-4222

INDICATES TEMPORARY CONSTRUCTION EASEMENT

DON & RITA MACKINSON
NW¼, SEC 35, T. 29 N., R. 5 E., 3RD P.M.

DON & RITA MACKINSON
NW¼, SEC 35, T. 29 N., R. 5 E., 3RD P.M.

EXISTING STRUCTURE NO. 053-3216
STATION 10+00 - SINGLE SPAN PRECAST CONCRETE DECK BEAM BRIDGE ON CONCRETE ABUTMENT CAPS WITH TIMBER PILING AND WINGWALLS.
37.2" FC.-FC. ABUTS; 26.4' o.-o. DECK

PLAN
SURVEYED
PLOTTED
ROADWAY CHECKED
R.O.W. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

BM#2 - BENCH TIE IN POWER POLE
22' LT., STA. 5+27
ELEV. 655.03

BM#1 - CHISELED "⊠" ON N.E. COR.
11' RT., STA. 10+13
ELEV. 658.00

BM#3 - BENCH TIE IN POWER POLE
19' LT., STA. 12+76
ELEV. 661.22

VPI STA. 8+40
ELEV. 656.50
K = 50
90' V.C.

VPI STA. 9+30
ELEV. 658.75
K = 36
90' V.C.

VPI STA. 11+50
ELEV. 658.75
K = 54
90' V.C.

100 YEAR H.W. ELEV. 656.1
15 YEAR H.W. ELEV. 655.2

PROPOSED ℄ GRADE
EXISTING ℄ GRADE
+0.69%
+2.50%
+0.00%
+1.67%
-0.40%
-0.48%
+2.61%
653.60 LT.
653.00 RT.
SPECIAL DITCH RT.
SPECIAL DITCH LT.
652.40 RT.
653.00 LT.
653.00 LT.
SPECIAL DITCH LT.
655.10 LT.
2H:1V
1V:2H
CHANNEL EXCAVATION
STONE RIPRAP, CLASS A4
℄ ELEV. 646.6

675 670 665 660 655 650 645 640 635

655.9 656.0 656.2 656.23 656.6 656.87 656.9 657.97 657.2 658.66 657.4 658.75 657.8 658.75 658.3 658.75 658.7 658.94 659.6 661.1 663.1

7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50 12+00 12+50 13+00

PROFILE
SURVEYED
PLOTTED
ROADWAY CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = 170166-sht-planprf.dgn	USER NAME = rhoslck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000969		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE
PEARSON BRIDGE
SCALE: 20V:5H | SHEET NO. 1 OF 1 SHEETS | STA. 7+00 TO STA. 13+00

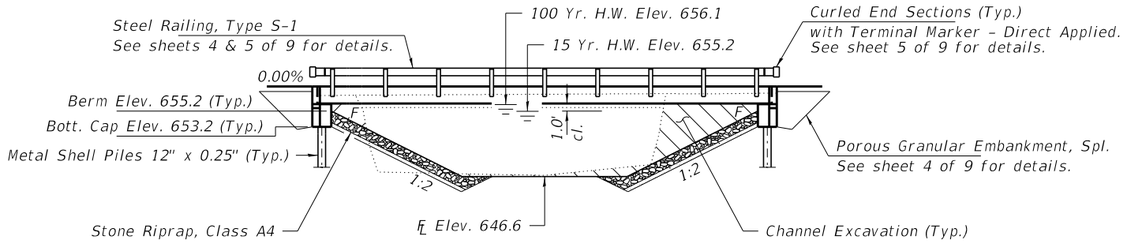
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	4
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
		ILLINOIS	FED. AID PROJECT EIIZ(942)	

BENCHMARK: Chiseled "X" on NE corner 11.0' Rt. Sta. 10+13, Elev. 658.00

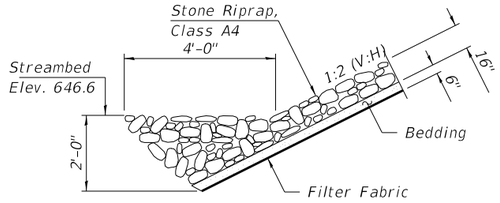
EXISTING STRUCTURE NO. 053-3216: Sta. 10+00 – Single span precast concrete deck beam bridge on concrete abutment caps with timber pilings and wingwalls. 37.2' fc.-fc. abuts; 26.4' o.-o. deck.

Structure closed to traffic during construction.

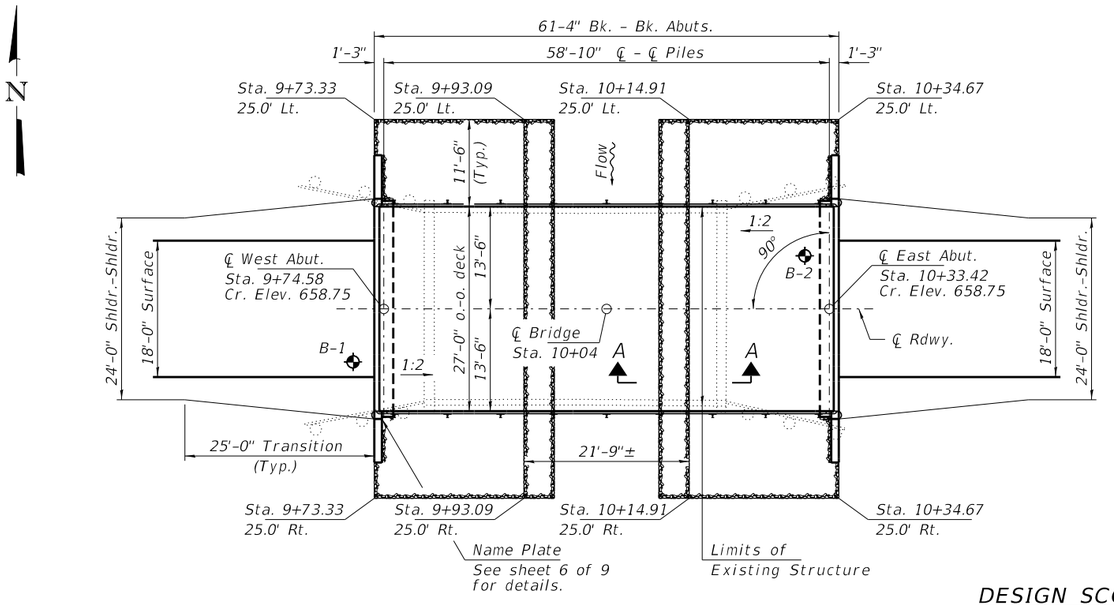
No Salvage



ELEVATION



SECTION A-B



PLAN

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 West Abutment or approved by the Engineer before ordering the remainder of piles.

All bars to be epoxy coated.

Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

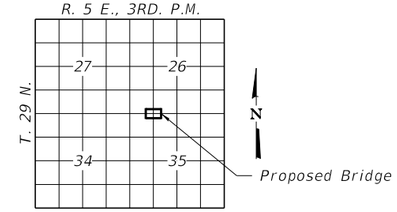
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

INDEX OF STRUCTURE SHEETS

DEER CREEK
BUILT 201_ BY
LIVINGSTON COUNTY
SEC. 16-09101-05-BR
ESMEN ROAD DISTRICT
STR. NO. 053-4222
LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition with all interims.

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (½"Ø low lax. strands)
fpbt = 201,960 psi (½"Ø low lax. strands)
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.076g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.132g
Soil Site Class = C

WATERWAY INFORMATION

Drainage Area = 6.6 Sq. Mi.
Existing Overtopping Elev. 655.9 @ Sta. 7+00
Proposed Overtopping Elev. 655.9 @ Sta. 7+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1590	260	320	654.97	0.24	0.19	655.21	655.16
Design	15	1830	270	340	655.20	0.91	0.32	656.11	655.52
Base	100	3090	280	390	656.10	0.93	0.81	657.03	656.91
Scour Check	200	3560	280	390	656.36	0.95	0.81	657.31	657.17
Max. Calc.	500	4240	280	390	656.73	0.90	0.87	657.63	657.60

15 Year Velocity through Existing Bridge = 6.8 fps
15 Year Velocity through Proposed Bridge = 5.4 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elev. (ft.) S. Abut.	Design Scour Elev. (ft.) N. Abut.	Item 113
Q100	653.2	653.2	8
Q200	653.2	653.2	
Design	653.2	653.2	
Check	653.2	653.2	

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. Meggenson 11/27/2018
ILLINOIS STRUCTURAL ENGR. NO. 081-6064

LICENSED STRUCTURAL ENGINEER
STEVEN W. MEGGINSON
081-6064
SPRINGFIELD, IL
STATE OF ILLINOIS

Expires 11-30-2020

TOTAL BILL OF MATERIAL

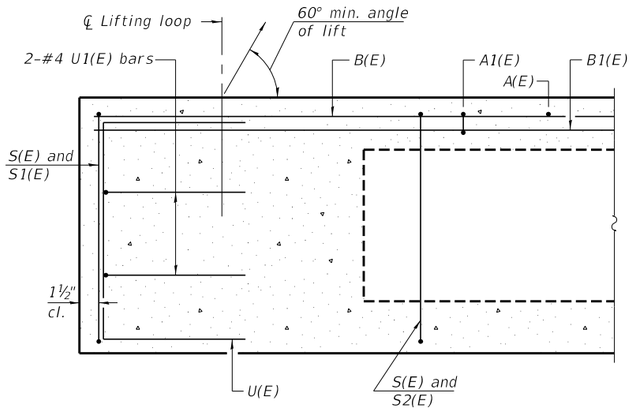
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			135
Stone Riprap, Class A4	Sq. Yd.			270
Filter Fabric	Sq. Yd.			270
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		23.4	23.4
Precast Prestressed Conc. Deck Beams (27" Depth)	Sq. Ft.	1,620		1,620
Reinforcement Bars, Epoxy Coated	Pound		2,900	2,900
Steel Railing, Type S-1	Foot	116		116
Furnishing Metal Shell Piles 12" x 0.25"	Foot		405	405
Driving Piles	Foot		405	405
Test Pile Metal Shell	Each		1	1
Name Plates	Each		1	1
Terminal Marker - Direct Applied	Each	4		4
Porous Granular Embankment, Special	Ton		100	100
Pipe Underdrains for Structures 4"	Foot		110	110

FILE NAME = 170166-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - R.D.H.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -	
	PLOT SCALE =	DRAWN - M.M.P.	REVISED -	
	PLOT DATE = 11/29/2018	CHECKED - S.W.M.	REVISED -	

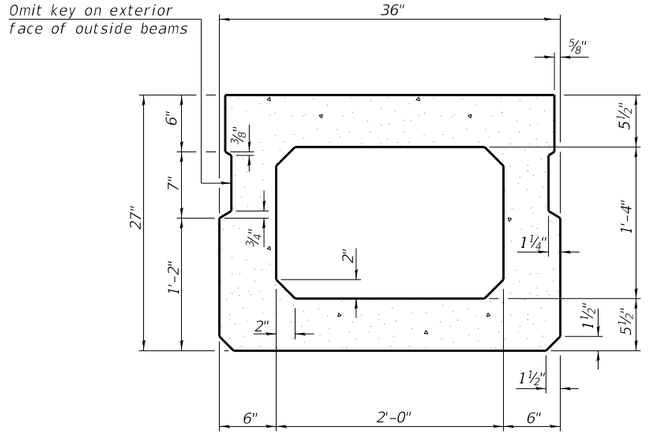
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
STRUCTURE NO. 053-4222
SHEET NO. 1 OF 9 SHEETS

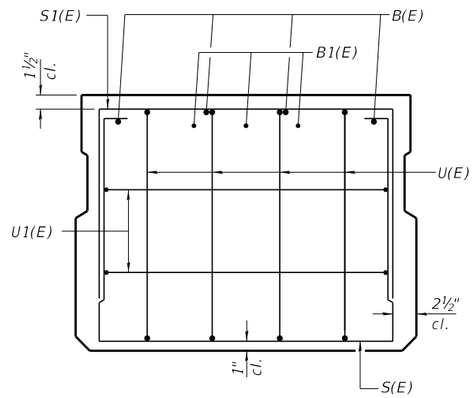
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	5
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		



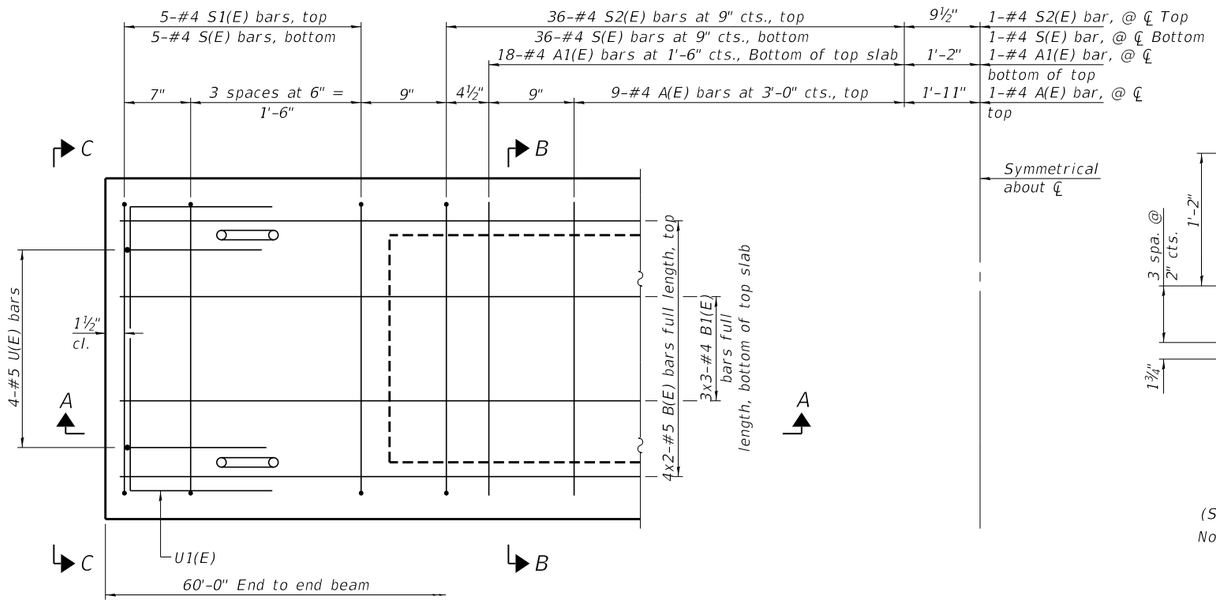
SECTION A-A



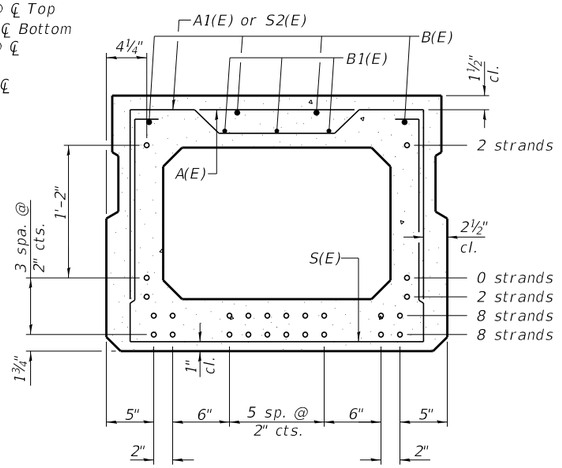
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



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.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	19	#4	2'-7"	—
A1(E)	37	#4	2'-10"	⌒
B(E)	8	#5	31'-2"	—
B1(E)	9	#4	21'-2"	—
S(E)	83	#4	7'-5"	⊔
S1(E)	10	#4	5'-11"	⊓
S2(E)	73	#4	6'-2"	⊓
U(E)	8	#5	4'-6"	⊏
U1(E)	4	#4	5'-0"	⊓

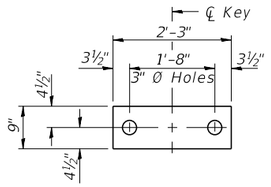
Note:
See sheet 3 & 4 of 9 for additional details and Bill of Material.

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

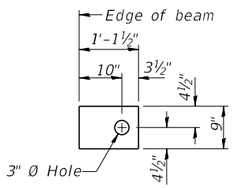
Notes:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

PD-2736-0 2-17-2017

FILE NAME = 170166-sht-bridge.dgn	USER NAME = mosick	DESIGNED - R.D.H.	REVISED -	STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT	27" x 36" PPC DECK BEAM STRUCTURE NO. 053-4222	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		CHECKED - S.W.M.	REVISED -			97	16-09101-05-BR	LIVINGSTON	23	6
	PLOT SCALE =	DRAWN - M.M.P.	REVISED -		SHEET NO. 2 OF 9 SHEETS	ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	PLOT DATE = 11/29/2018	CHECKED - S.W.M.	REVISED -			ILLINOIS	FED. AID PROJECT ELIZ(942)			



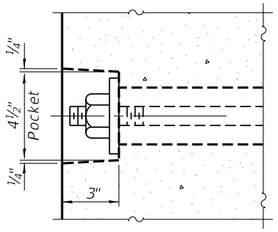
FABRIC BEARING PAD
(Interior - 16 Req'd.)



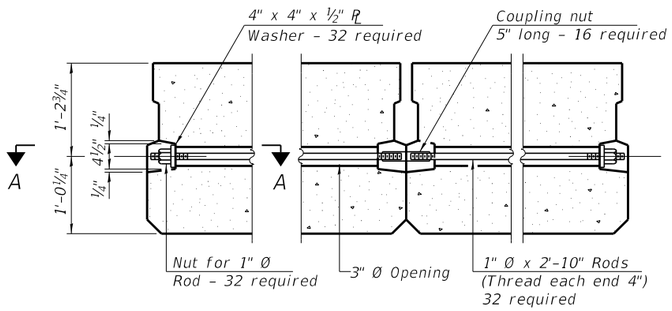
FABRIC BEARING PAD
(Exterior - 4 Req'd.)

FIXED

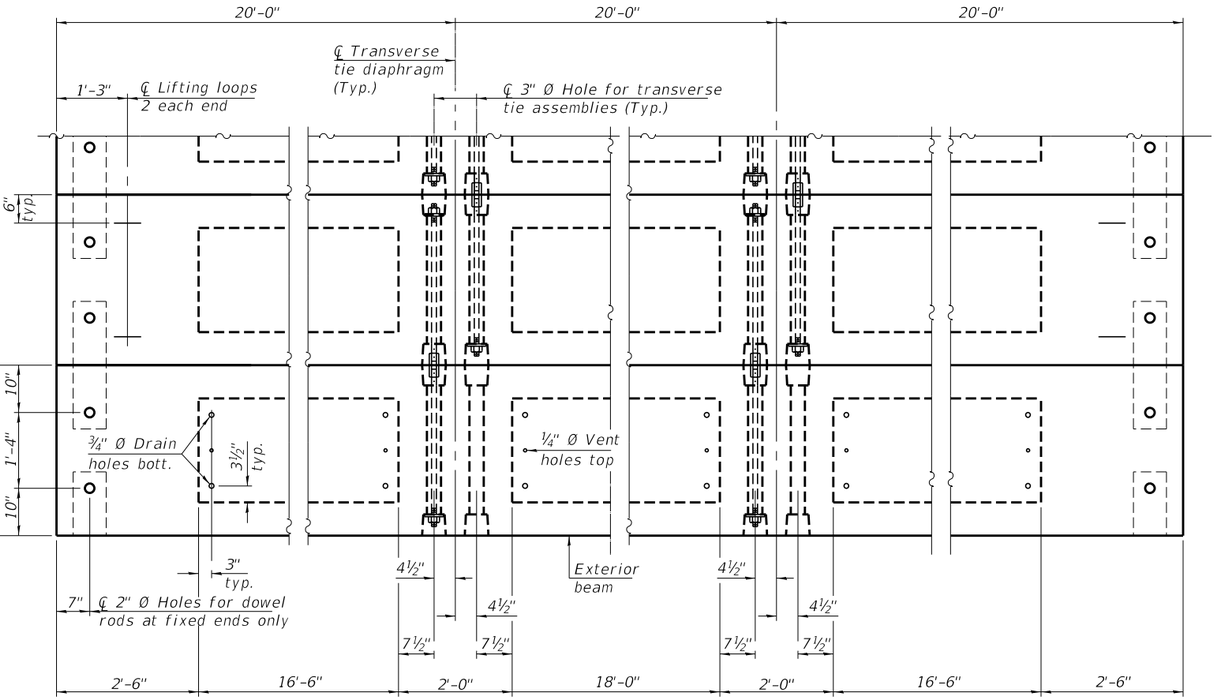
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

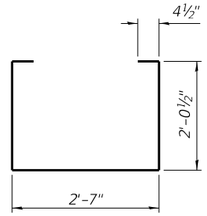


TYPICAL TRANSVERSE TIE ASSEMBLY

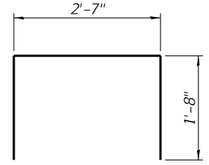


PLAN VIEW

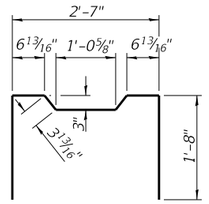
Note: Connect beams in pairs with the transverse tie configuration shown.



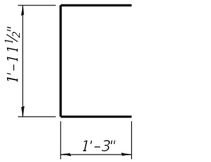
BAR S(E)



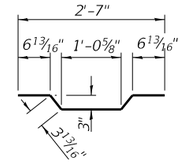
BAR S1(E)



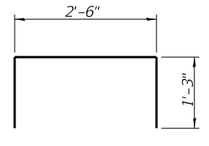
BAR S2(E)



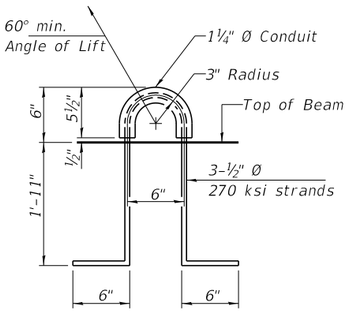
BAR U(E)



BAR U1(E)



BAR A1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,620

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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 ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" 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.

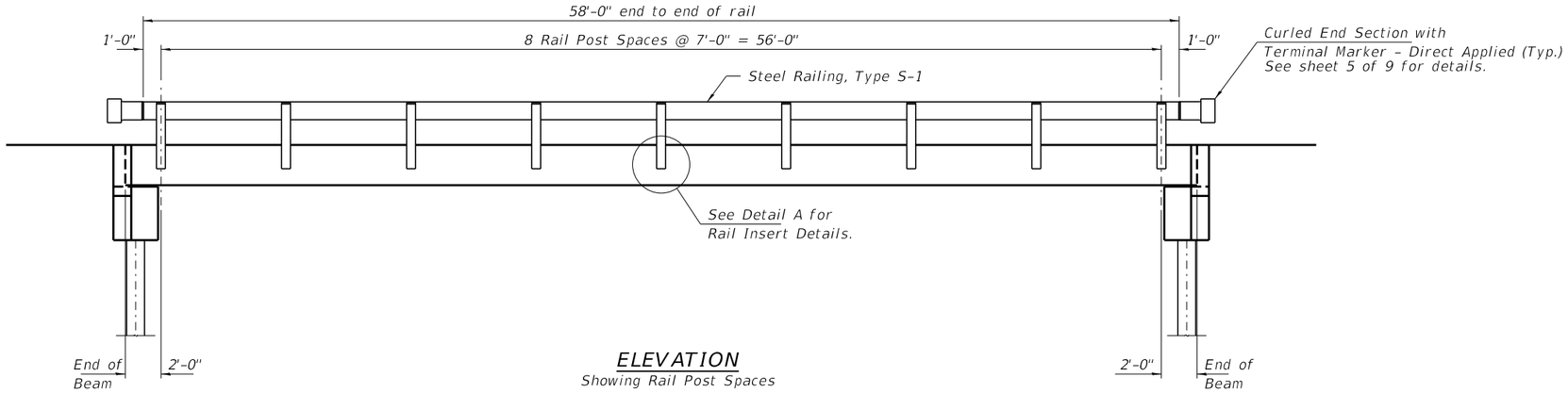
PD-2736-0D 2-17-2017

FILE NAME = 170166-shl-bridge.dgn	USER NAME = rhoslck	DESIGNED - R.D.H.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP: 184.000959	PLOT SCALE =	DRAWN - M.M.P.	REVISED -
	PLOT DATE = 11/29/2018	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 053-4222
SHEET NO. 3 OF 9 SHEETS

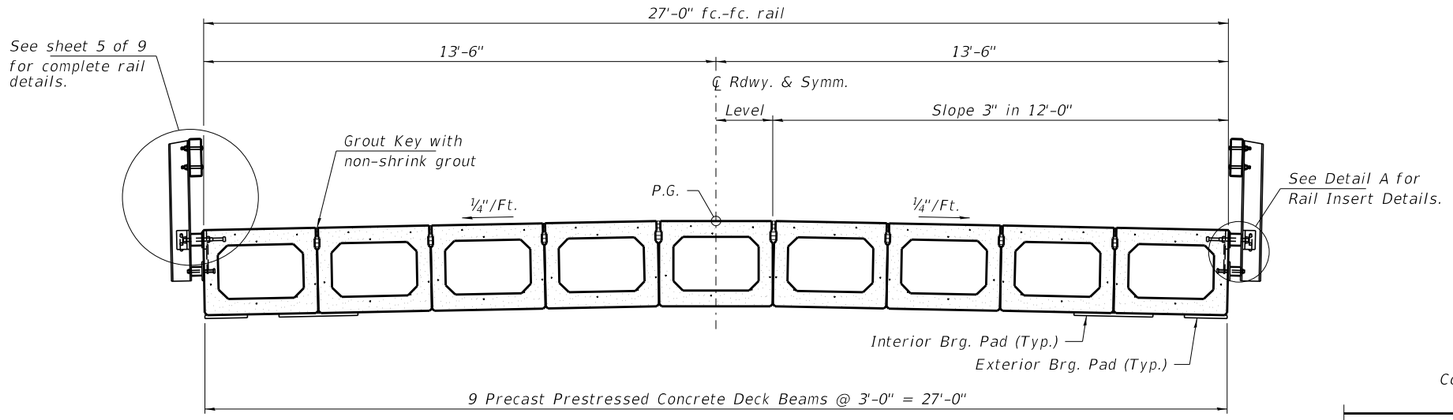
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	7
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		



ELEVATION

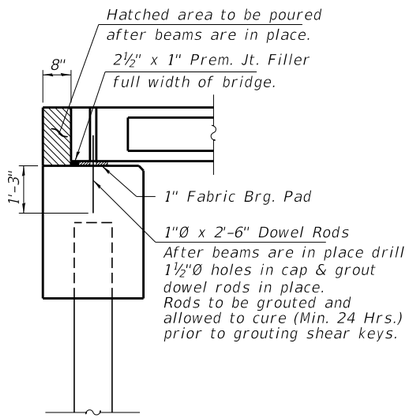
Showing Rail Post Spaces

See sheet 5 of 9 for Railing Details.



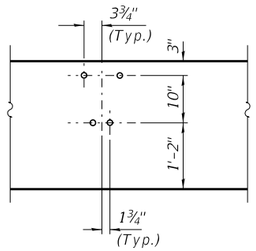
CROSS SECTION

See sheets 2 & 3 of 9 for Superstructure.

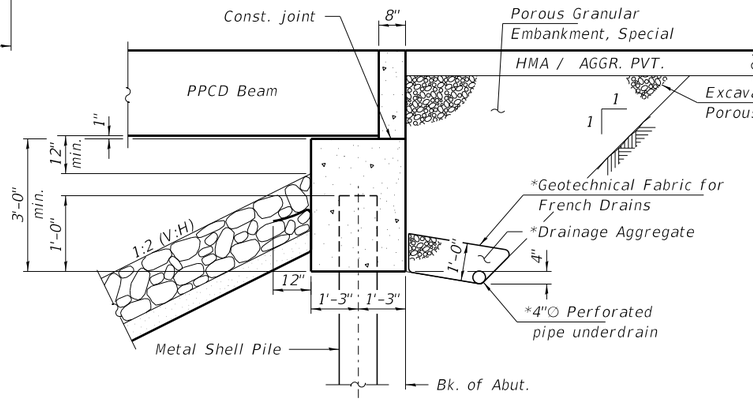


SECTION AT ABUTMENTS

@ Rt. ℄'s



DETAIL A



SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. ℄'s)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

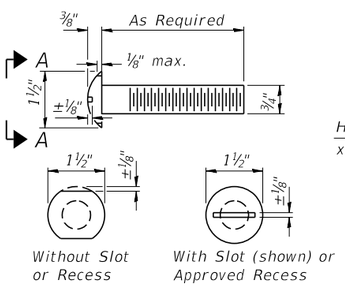
Note:
Outlet pipe underdrains to the South only as directed by the Engineer.

FILE NAME = 170166-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - R.D.H.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - M.M.P.	REVISED -
	PLOT DATE = 11/29/2018	CHECKED - S.W.M.	REVISED -

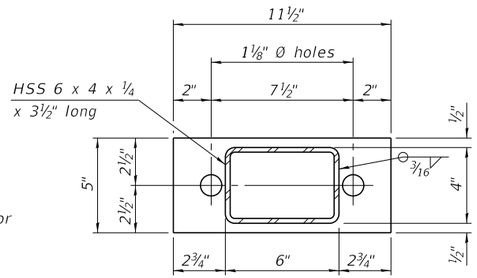
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 053-4222
SHEET NO. 4 OF 9 SHEETS

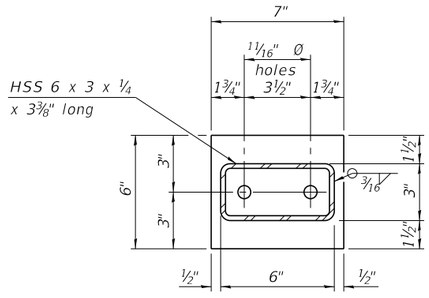
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	8
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELZ(942)		



VIEW A–A
ROUND HEAD BOLT

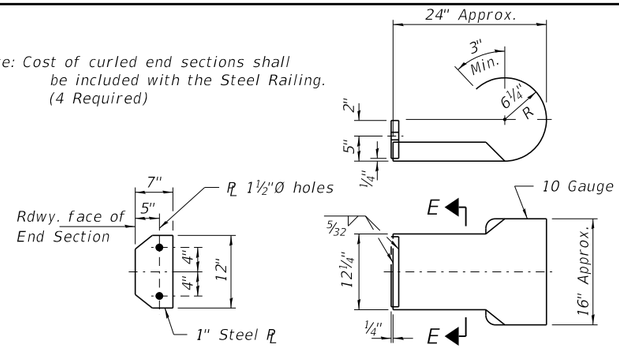


℄ 1/2" x 11 1/2" x 5"



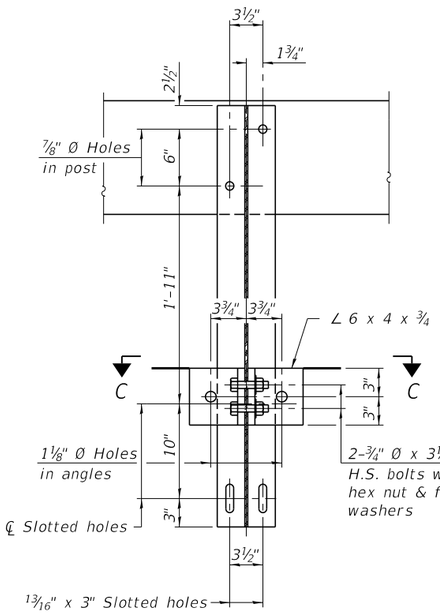
℄ 1/2" x 7" x 6"

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

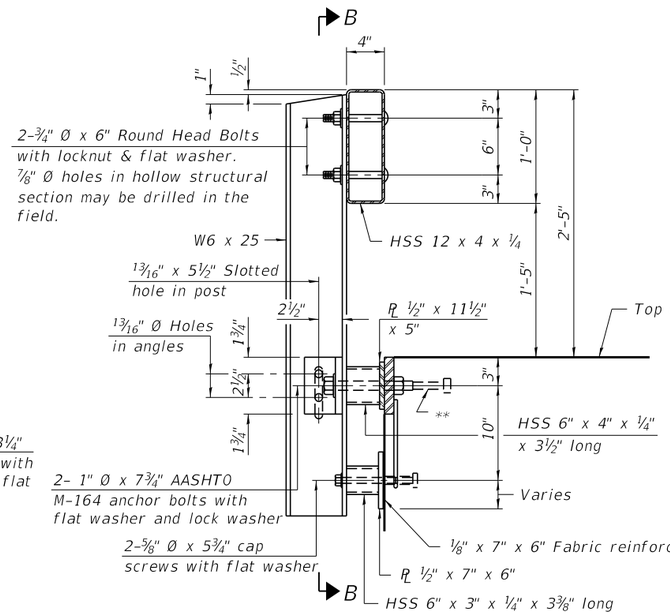


SECTION E–E

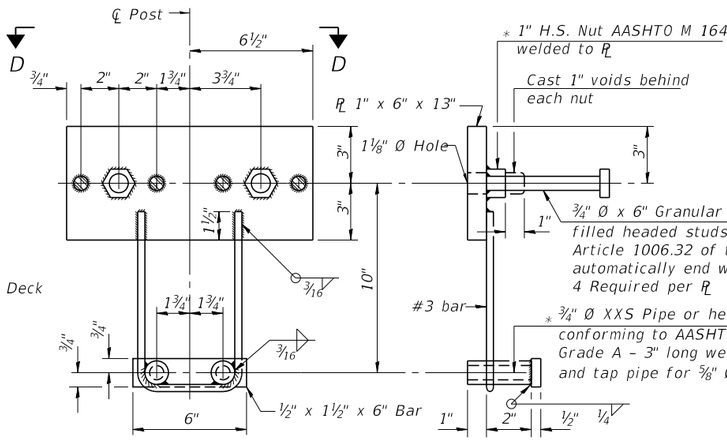
CURLED END SECTION DETAILS



SECTION B–B



SECTION AT RAILING POST



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.

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"	——

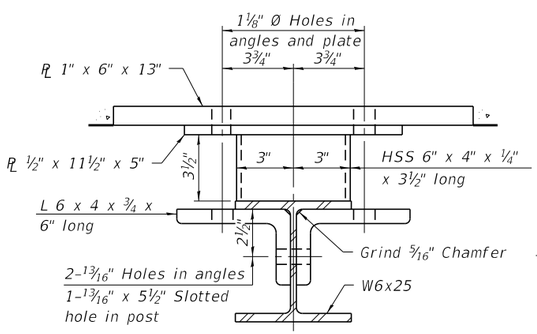
T = Total movement at expansion joint as shown on the design plans.

Notes:

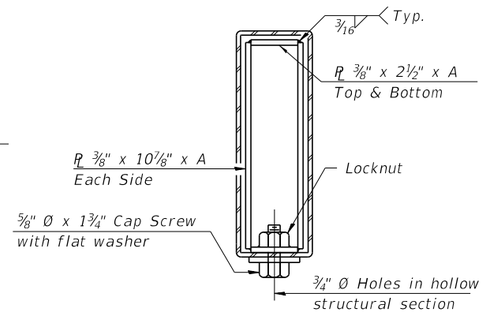
For multi–span bridges, sufficient 1/4" x 6" x 1'–2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S–1.

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

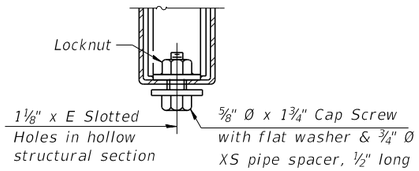
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



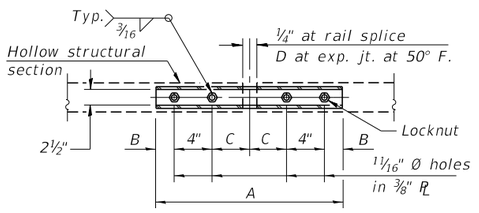
SECTION C–C



SECTIONS AT RAIL SPLICE

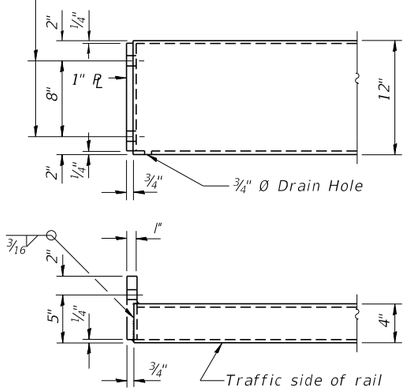


RAIL SPLICE CONNECTION AT EXPANSION JT.

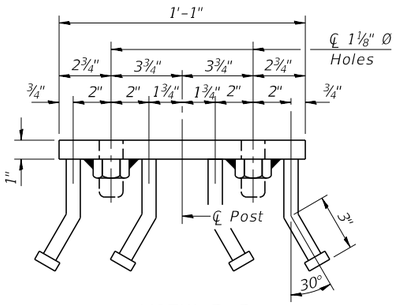


PLAN–BOTT. SPLICE ℄ TYPICAL

1 1/8" Ø Holes for 1" Ø x 4" Round head bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Hwy Std. 631026 or BLR 27–1.



END OF RAIL DETAILS



VIEW D–D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S–1	Foot	116

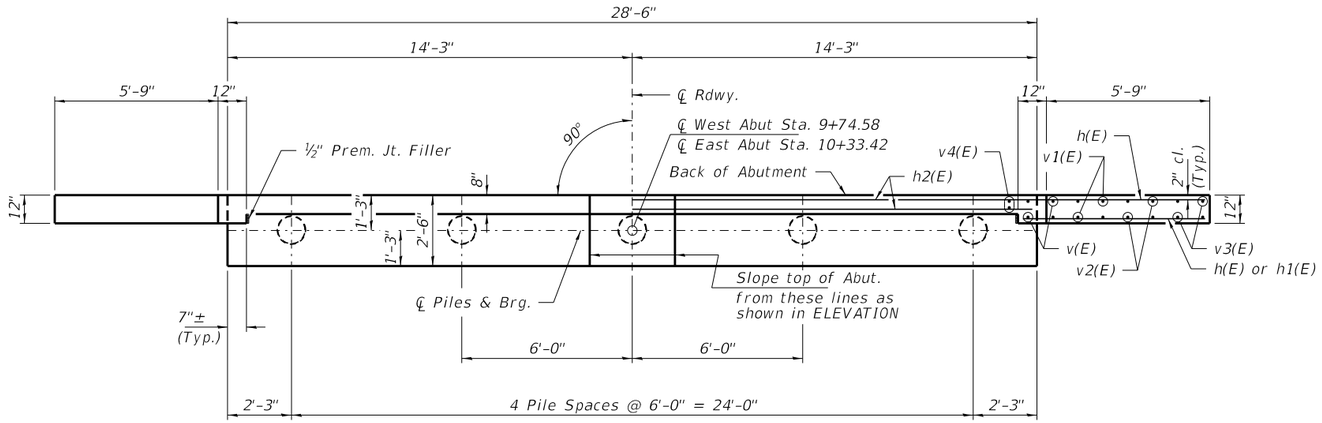
8-11-2017 (10'–9" Maximum Post Spacing)

FILE NAME = 170166-sht-bridge.dgn	USER NAME = mosick	DESIGNED – R.D.H.	REVISED –
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED – S.W.M.	REVISED –
	PLOT SCALE =	DRAWN – M.M.P.	REVISED –
	PLOT DATE = 11/29/2018	CHECKED – S.W.M.	REVISED –

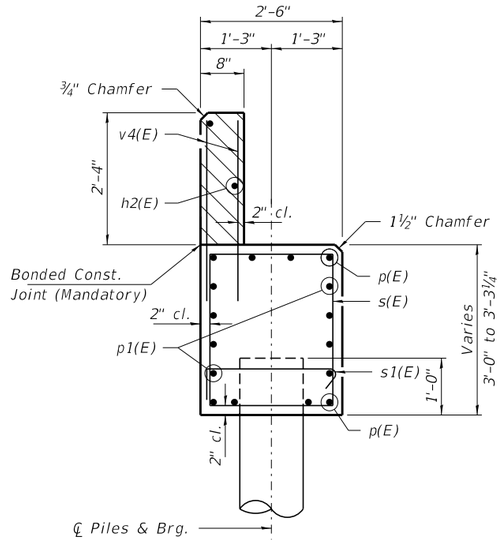
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 053-4222
SHEET NO. 5 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	9
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ERZ(942)		



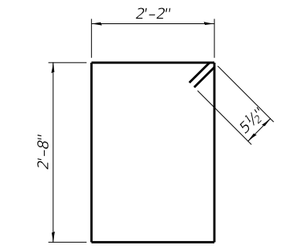
PLAN



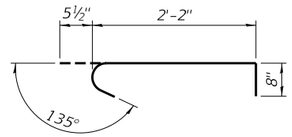
SECTION A-A

Hatched area to be poured after beams are in place.

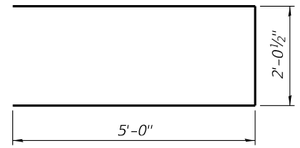
Cast top of wingwall flush with exterior beam face after beams have been erected.



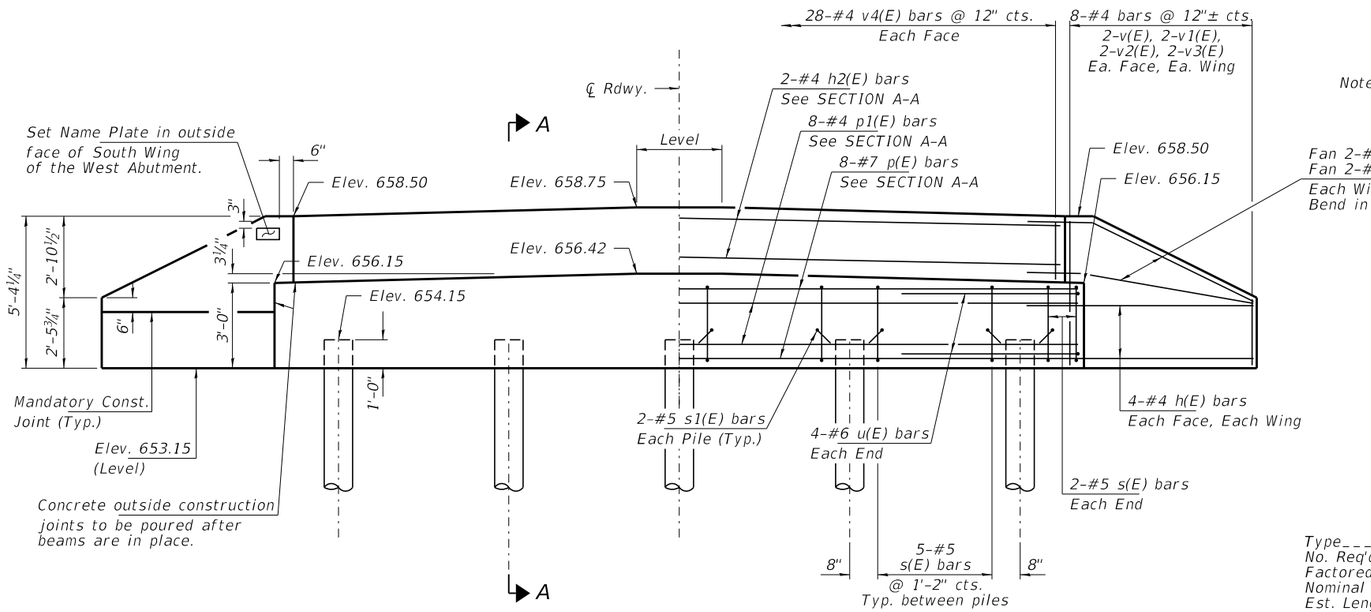
BARS s(E)



BAR s1(E)



BAR u(E)



ELEVATION

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

Note: Extend h(E) bars into abutment cap.

PILE DATA

Type_____ Metal Shell 12" x 0.25"
No. Req'd. (2 Abuts.)_____ 10*
Factored Resistance Available (Rf)__ 149 Kips/Pile
Nominal Required Bearing (Rn)_____ 271 Kips/Pile
Est. Length_____ 45 Ft/Pile

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

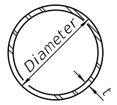
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	40	#4	8'-0"	
h1(E)	8	#4	6'-6"	
h2(E)	4	#4	28'-2"	
p(E)	12	#7	28'-2"	
p1(E)	20	#4	28'-2"	
s(E)	48	#5	10'-7"	
s1(E)	20	#5	3'-4"	
u(E)	16	#6	12'-1"	
v(E)	16	#4	4'-11"	
v1(E)	16	#4	4'-0"	
v2(E)	16	#4	3'-1"	
v3(E)	16	#4	2'-2"	
v4(E)	112	#4	3'-2"	
Concrete Structures			Cu. Yd.	23.4
Reinforcement Bars, Epoxy Coated			Pound	2,900
Metal Shell Piles 12" x 0.25"			Foot	405
Test Pile Metal Shell			Each	1
Name Plates			Each	1

FILE NAME = 170166-shl-bridge.dgn	USER NAME = rhoslck	DESIGNED - R.D.H.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - M.M.P.	REVISED -
	PLOT DATE = 11/29/2018	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

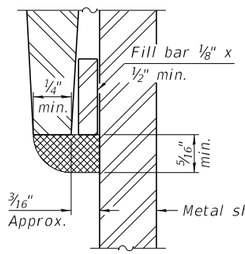
ABUTMENTS
STRUCTURE NO. 053-4222
SHEET NO.6 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	10
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		

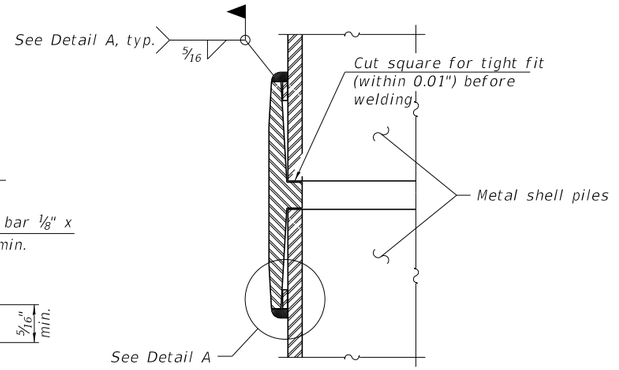


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

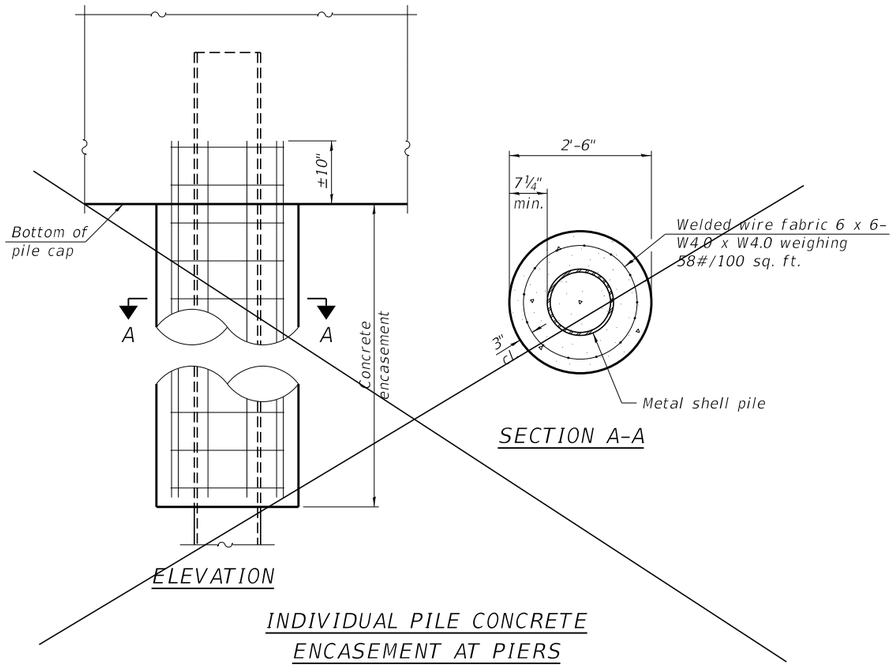


DETAIL A



WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

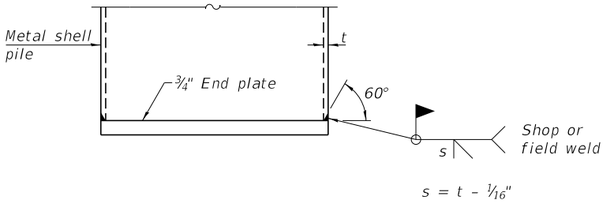


ELEVATION

SECTION A–A

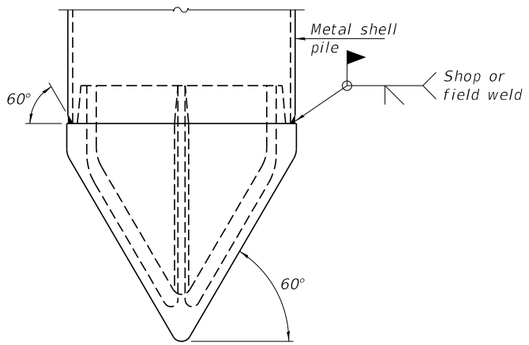
INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS

(Not Required)



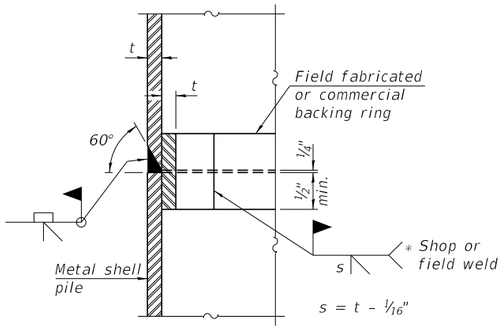
s = t – 1/16"

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

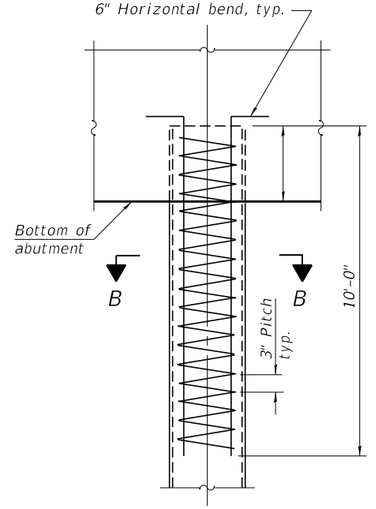
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



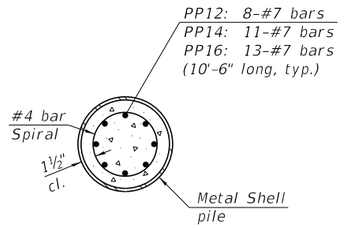
s = t – 1/16"

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 8-11-2017

FILE NAME = 170166-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - R.D.H.	REVISED -	STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT	METAL SHELL PILE DETAILS STRUCTURE NO. 053-4222
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -		SHEET NO.7 OF 9 SHEETS
	PLOT SCALE =	DRAWN - M.M.P.	REVISED -		
	PLOT DATE = 11/29/2018	CHECKED - S.W.M.	REVISED -		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	11
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
ILLINOIS	FED. AID PROJECT ETZ(942)			

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 3

Client: Hampton Lenzini Renwick - Inc.
Project Name: Section 16-09101-05-BR
Project Site: Livingston County, IL.

Boring No. B-1
Surface Elev. ***99.80*** (674.0)
Auger Depth 61' Rotary Depth NA
Start Date 04/15/17 Finish Date 04/15/17

Location: 7' South of centerline of roadway
29' West of center of existing structure

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
99.80											
98.80			1								
97.80			2								
96.80	Siff Black And Brown Clay (Fill)		3	1	SS	1.4	8	S	21		
95.80			4								
94.80	(669.0)		5	2	SS	1.2	8	B	26		
93.80	Stiff Black Silty Clay		6								
92.80			7								
91.80	(665.5)		8	3	SS	1.0	8	B	26		
90.80			9								
89.80	Stiff Brownish Gray Clay		10	4	SS	1.6	10	B	25		
88.80	(662.5)		11								
87.80			12								
86.80			13	5	SS	2.3	15	B	23		
85.80			14								
84.80			15	6	SS	3.0	18	B	21		
83.80	Very Stiff Brownish Gray Clay		16								
82.80			17								
81.80			18	7	SS	2.5	13	B	23		
80.80			19								
79.80			20	8	SS	2.4	13	B	23		
	(653.0)										

Groundwater Data: Seepage at 35' depth static water level 24' depth
Comments: ***Assumed center of existing bridge deck as 100.0*** (674.2)

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BORING LOG

Sheet 2 of 3

Client: Hampton Lenzini Renwick - Inc.
Project Name: Section 16-09101-05-BR
Project Site: Livingston County, IL.

Boring No. B-1
Surface Elev. ***99.80*** (674.0)
Auger Depth 61' Rotary Depth NA
Start Date 04/15/17 Finish Date 04/15/17

Location: 7' South of centerline of roadway
29' West of center of existing structure

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
78.80											
77.80			22								
76.80	Very Stiff Brownish Gray Clay		23	9	SS	2.1	10	B	23		
75.80	(650.0)		24								
74.80			25								
73.80			26	10	SS	2.3	10	B	23		
72.80			27								
71.80			28	11	SS	2.2	11	B	24		
70.80			29								
69.80			30								
68.80	Very Stiff Gray Clay		31	12	SS	2.4	11	B	22		
67.80			32								
66.80			33	13	SS	2.2	10	B	24		
65.80			34								
64.80			35								
63.80			36	14	SS	2.5	12	B	23		
62.80			37								
61.80	(636.0)		38								
60.80			39								
59.80	Medium Gray Silt		40	15	SS	---	16	---	18		
58.80			41								

Groundwater Data: Seepage at 35' depth static water level 24' depth
Comments: ***Assumed center of existing bridge deck as 100.0*** (674.2)

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BORING LOG

Sheet 3 of 3

Client: Hampton Lenzini Renwick - Inc.
Project Name: Section 16-09101-05-BR
Project Site: Livingston County, IL.

Boring No. B-1
Surface Elev. ***99.80*** (674.0)
Auger Depth 61' Rotary Depth NA
Start Date 04/15/17 Finish Date 04/15/17

Location: 7' South of centerline of roadway
29' West of center of existing structure

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
57.80											
56.80			43								
55.80			44								
54.80			45	16	SS	---	14	---	---		
53.80			46								
52.80	Medium Gray Fine Sand And Silt Seams		47								
51.80			48								
50.80			49								
49.80			50	17	SS	---	19	---	---		
48.80			51								
47.80	(622.0)		52								
46.80			53								
45.80	Medium Gray Fine Sand		54								
44.80			55	18	SS	---	18	---	---		
43.80			56								
42.80	(617.0)		57								
41.80			58								
40.80	Very Stiff Gray Clay Till		59								
39.80			60								
38.80	(613.0)		61	19	SS	2.8	18	B	16		
37.80	Boring Terminated		62								

Groundwater Data: Seepage at 35' depth static water level 24' depth
Comments: ***Assumed center of existing bridge deck as 100.0*** (674.2)

BORING-1

Midwest Testing Services, Inc.
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e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 3

Client: Hampton Lenzini Renwick - Inc.
Project Name: Section 16-09101-05-BR
Project Site: Livingston County, IL.

Boring No. B-2
Surface Elev. ***100.00*** (674.2)
Auger Depth 61' Rotary Depth NA
Start Date 04/15/17 Finish Date 04/15/17

Location: 7' North of centerline of roadway
30' East of center of existing structure

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
100.00											
99.00	Medium Brown Clay Mixed With Gravel (Fill)		1								
98.00			2								
(671.2)											
97.00			3	1	SS	---	15	---	12		
96.00			4								
95.00			5	2	SS	2.2	12	S	13		
94.00	Very Stiff Brown Clay Mixed With Coarse Gravel (Fill)		6								
93.00			7								
92.00			8	3	SS	3.4	18	S	16		
91.00			9								
(664.2)											
90.00			10	4	SS	2.2	12	B	23		
89.00			11								
88.00			12								
87.00			13	5	SS	2.0	12	B	23		
86.00			14								
85.00	Very Stiff Brownish Gray Clay		15								
84.00			16	6	SS	2.4	12	B	23		
83.00			17								
82.00			18	7	SS	2.2	12	B	22		
81.00			19								
80.00			20								
(653.2)				8	SS	2.0	10	B	24		

Groundwater Data: Seepage at 35' depth static water level 24' depth
Comments: ***Assumed center of existing bridge deck as 100.0*** (674.2)

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 3

Client: Hampton Lenzini Renwick - Inc.
Project Name: Section 16-09101-05-BR
Project Site: Livingston County, IL.

Boring No. B-2
Surface Elev. ***100.00*** (674.2)
Auger Depth 61' Rotary Depth NA
Start Date 04/15/17 Finish Date 04/15/17

Location: 7' North of centerline of roadway
30' East of center of existing structure

DRILLED BY: Randy Safranski
Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
79.00											
78.00			22								
77.00	Very Stiff Brownish Gray Clay		23	9	SS	2.3	11	B	25		
76.00			24								
75.00			25								
(648.2)											
74.00			26	10	SS	2.0	10	B	24		
73.00			27								
72.00			28	11	SS	2.3	10	B	24		
71.00			29								
70.00			30								
69.00			31	12	SS	2.1	10	B	23		
68.00	Very Stiff Gray Clay		32								
67.00			33	13	SS	2.2	11	B	22		
66.00			34								
65.00			35								
64.00			36	14	SS	2.5	12	B	23		
63.00			37								
(636.2)											
62.00			38								
61.00	Very Stiff Gray Clay With Sand Seams		39								
60.00			40								
59.00			41	15	SS	2.4	12	B			

Groundwater Data: Seepage at 35' depth static water level 24' depth
Comments: ***Assumed center of existing bridge deck as 100.0*** (674.2)

Midwest Testing Services, Inc.
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Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 3 of 3

Client: Hampton Lenzini Renwick - Inc.
Project Name: Section 16-09101-05-BR
Project Site: Livingston County, IL.

Boring No. B-2
Surface Elev. ***100.00*** (674.2)
Auger Depth 61' Rotary Depth NA
Start Date 04/15/17 Finish Date 04/15/17

Location: 7' North of centerline of roadway
30' East of center of existing structure

DRILLED BY: Randy Safranski
Diedrich D-120

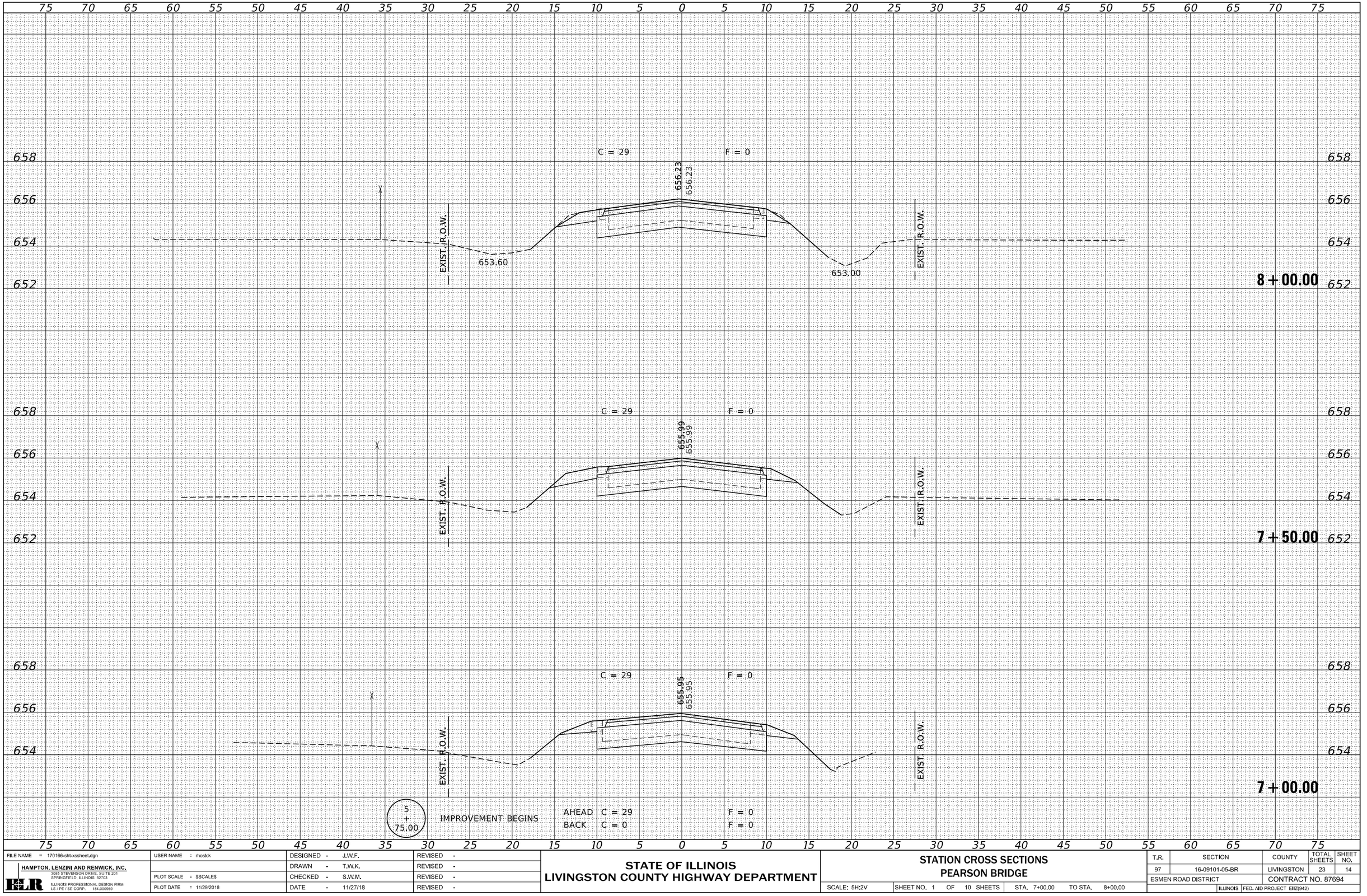
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
58.00											
57.00			43								
56.00	Very Stiff Gray Clay With Sand Seams		44								
55.00			45								
(628.2)											
54.00			46	16	SS	2.4	13	B	22		
53.00			47								
52.00			48								
51.00			49								
50.00	Medium Gray Fine Sand		50	17	SS	---	16	---	---		
49.00			51								
48.00			52								
47.00			53								
46.00			54								
45.00			55								
(618.2)				18	SS	---	21	---	---		
44.00			56								
43.00			57								
42.00	Very Stiff Gray Clay Till		58								
41.00			59								
40.00			60								
(613.2)				19	SS	3.1	20	B	15		
39.00	Boring Terminated		61								
38.00			62								

Groundwater Data: Seepage at 35' depth static water level 24' depth
Comments: ***Assumed center of existing bridge deck as 100.0*** (674.2)

BORING-2

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

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



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		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
5085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000659

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 1 OF 10 SHEETS | STA. 7+00.00 TO STA. 8+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	14
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
ILLINOIS	FED. AID PROJECT EIIZ(942)			

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

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

660 658 656 654 652

C = 30 F = 22

657.86 656.86

10.00 %

TEMP. EASEMENT

PROP. R.O.W.

EXIST. R.O.W.

PIPE CULVERTS, CLD, TY1, 18"

1:3

1:2

EXIST. R.O.W.

PROP. R.O.W.

S.D. 652.54

8 + 95.00

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

660 658 656 654 652

C = 27 F = 12

656.87 656.63

EXIST. R.O.W.

1:2

1:3

S.D. 653.40

S.D. 652.76

EXIST. R.O.W.

PROP. R.O.W.

8 + 50.00

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 = 170166-sht-xssheet.dgn | USER NAME = rhoslck | DESIGNED - J.W.F. | REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
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SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

PLOT SCALE = $SCALE$ | DRAWN - T.W.K. | REVISED -

PLOT DATE = 11/29/2018 | CHECKED - S.W.M. | REVISED -

DATE - 11/27/18 | REVISED -

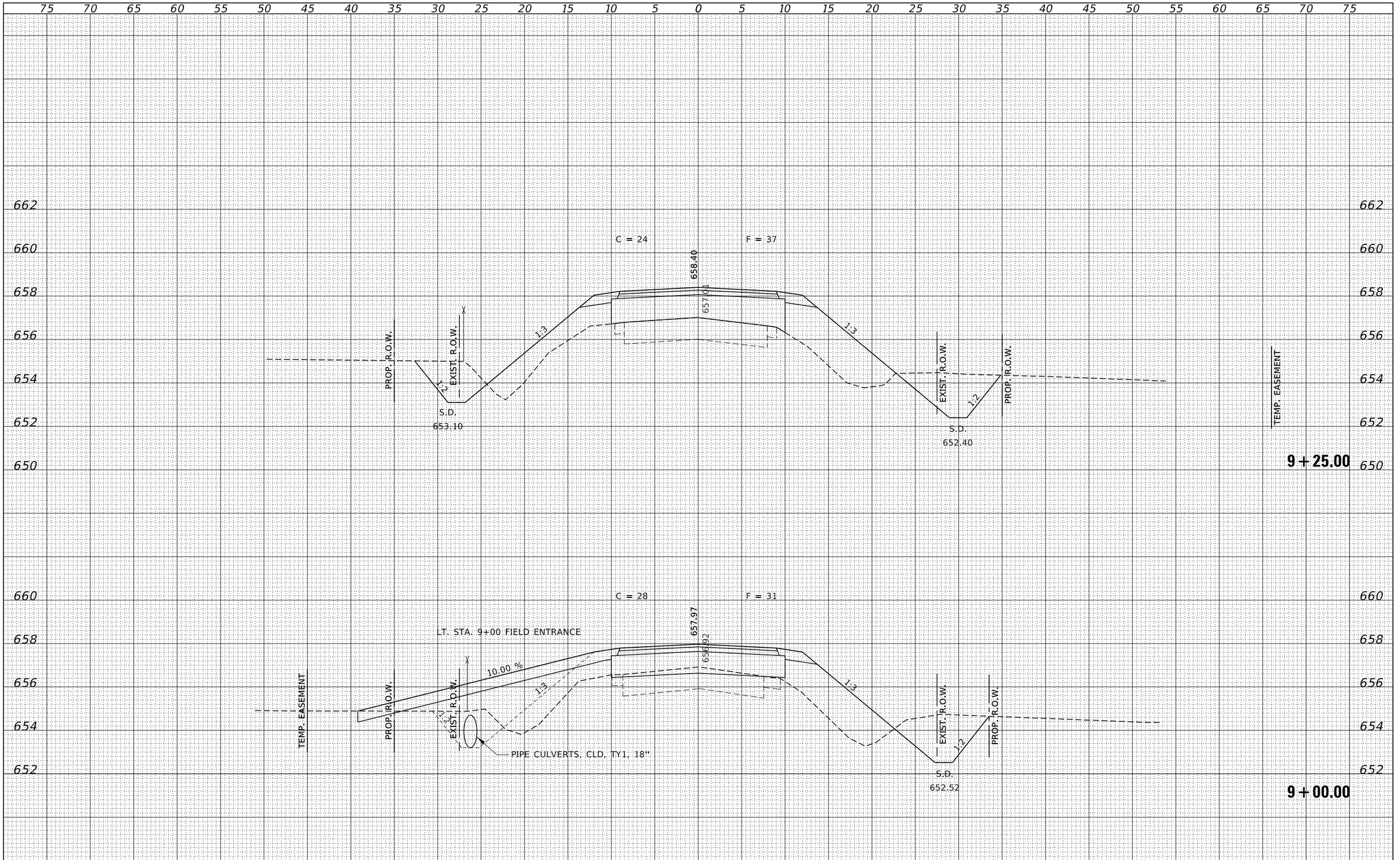
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 2 OF 10 SHEETS | STA. 8+50.00 TO STA. 8+84.98

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	15
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT EIIZ(942)		

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



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

FILE NAME = 170166-sht-xssheet.dgn	USER NAME = rhoslck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

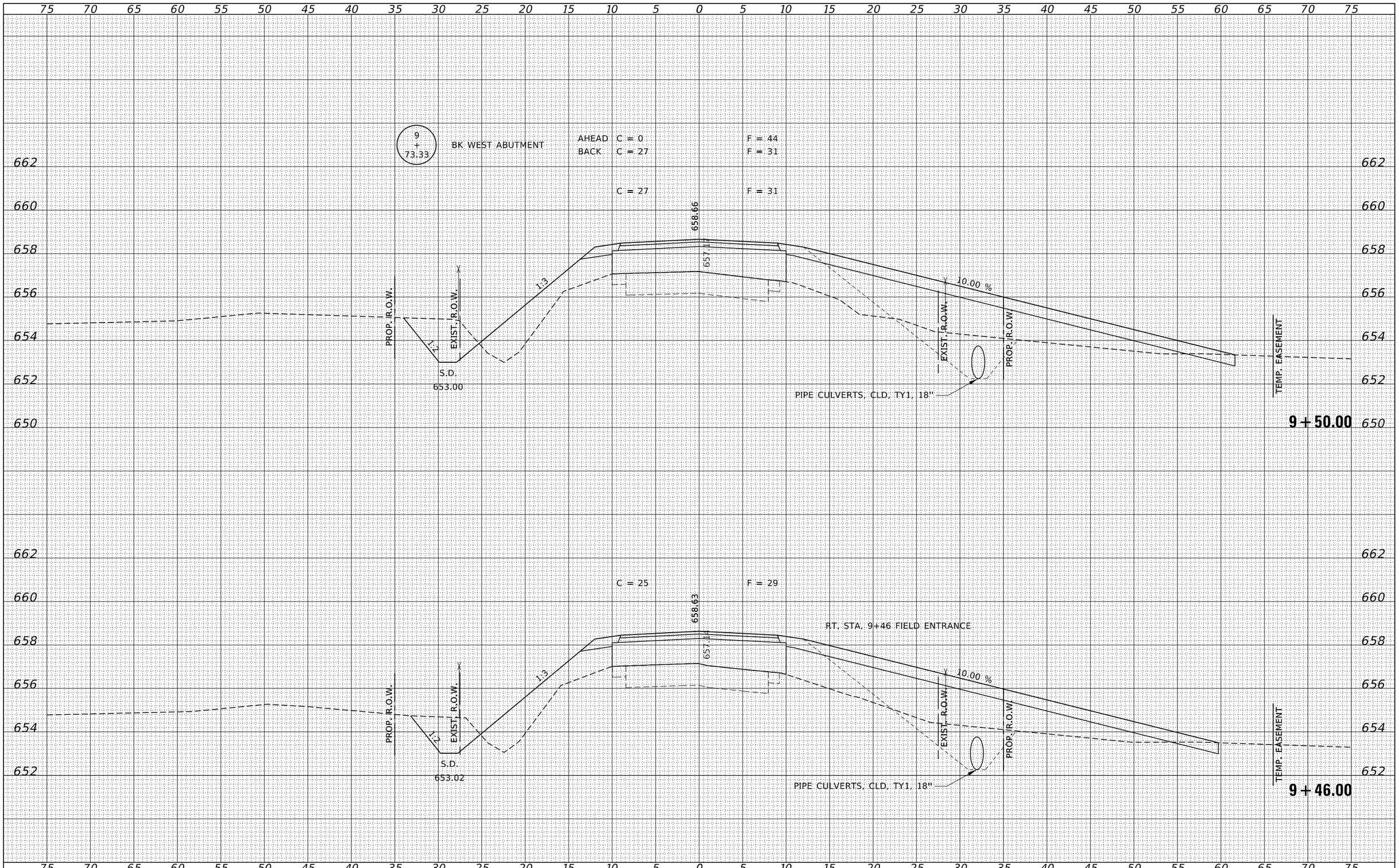
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 3 OF 10 SHEETS | STA. 9+00.00 TO STA. 9+25.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	16
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
ILLINOIS	FED. AID PROJECT ElIZ(942)			

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



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

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	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 4 OF 10 SHEETS | STA. 9+45.98 TO STA. 9+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	17
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
		ILLINOIS	FED. AID PROJECT ELIZ(942)	

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

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

650
648
646

PROP. R.O.W.
EXIST. R.O.W.
646.83
EXIST. R.O.W.
PROP. R.O.W.

10 + 00.00

STA. 9+90 C = 0 F = 0

C = 0 F = 11

657.28

CHANNEL EXCAVATION

BERM ELEV. 655.2

1:2

1:3

660
658
656
654
652
650
648

PROP. R.O.W.
EXIST. R.O.W.
EXIST. R.O.W.
PROP. R.O.W.

STONE RIPRAP, CLASS A4

9 + 75.00

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

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

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	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
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SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

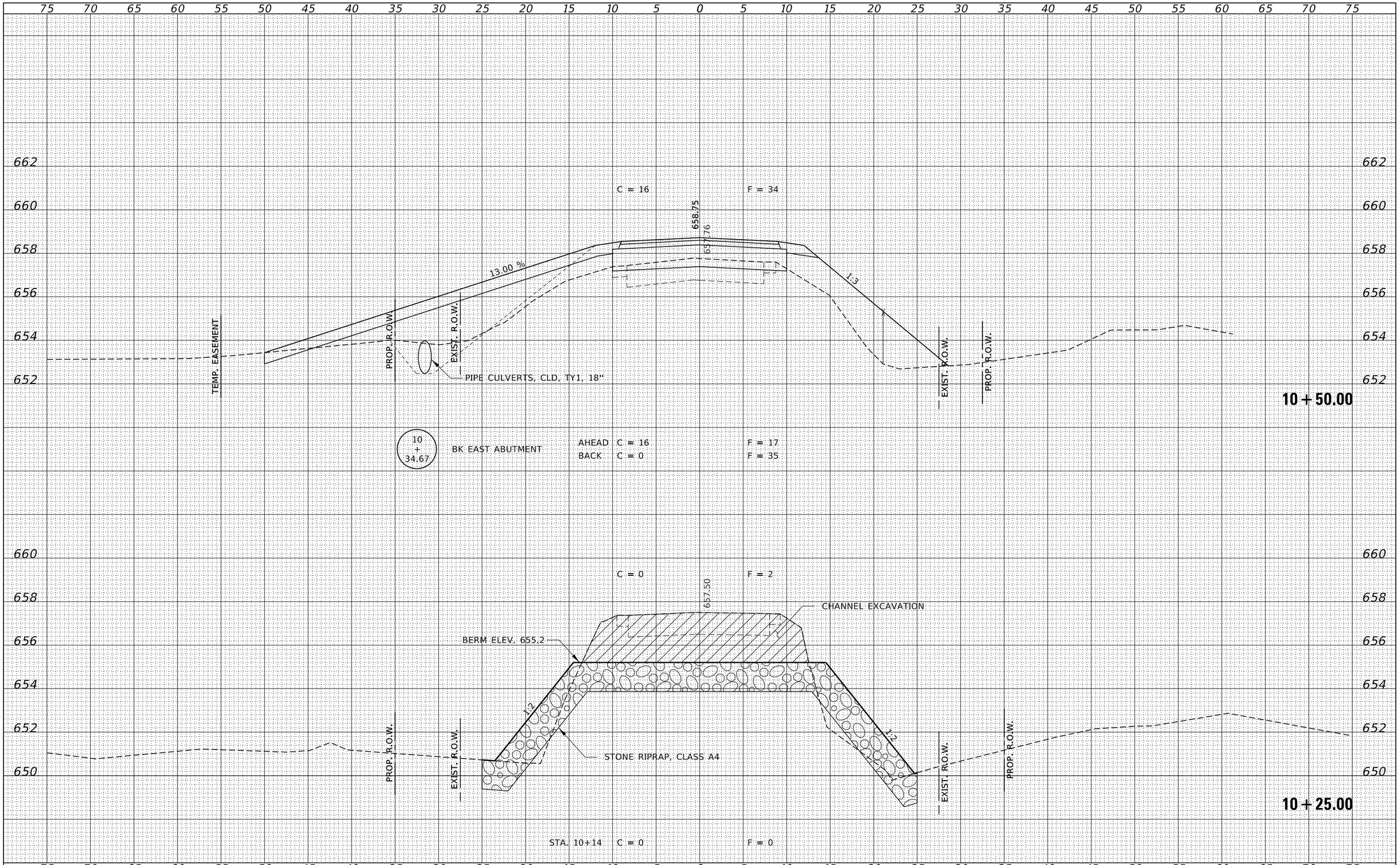
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	18
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		

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



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

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	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 6 OF 10 SHEETS | STA. 10+25.00 TO STA. 10+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	19
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		

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

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

662 660 658 656 654

C = 19 F = 20

658.75 658.05

1:3 1:3

PROP. R.O.W. EXIST. R.O.W. EXIST. R.O.W. PROP. R.O.W.

S.D. 653.13

PIPE CULVERTS, CLD, TY1, 18''

10 + 75.00

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

662 660 658 656 654

C = 27 F = 18

658.75 657.88

LT. 10+60 FIELD ENTRANCE

13.00 %

1:3

EMP. EASEMENT PROP. R.O.W. EXIST. R.O.W. EXIST. R.O.W. PROP. R.O.W.

PIPE CULVERTS, CLD, TY1, 18"

10 + 60.00

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

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	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
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LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 7 OF 10 SHEETS | STA. 10+59.98 TO STA. 10+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	20
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		

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

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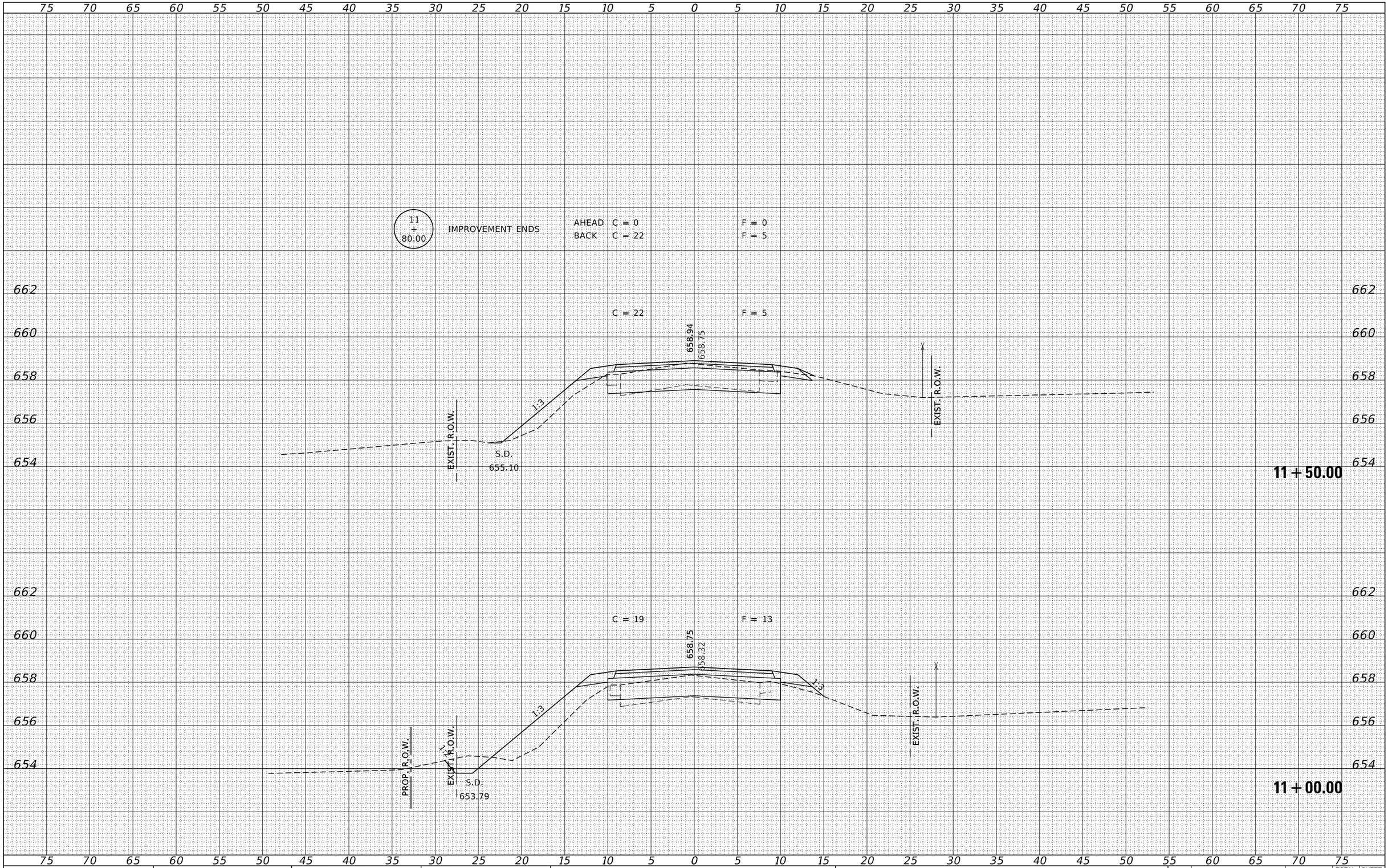
	AREAS		
	AREAS CHECKED		



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	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
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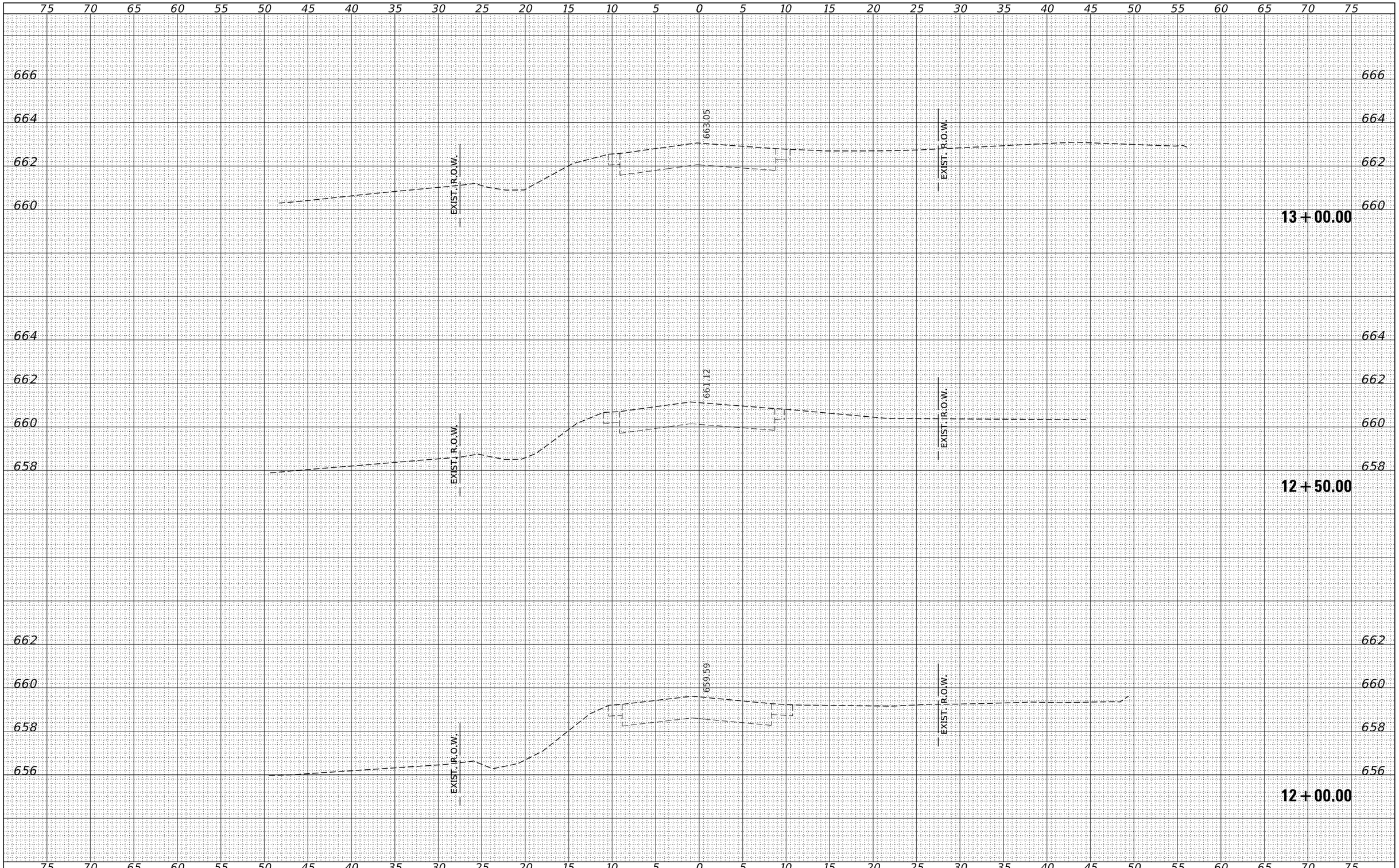
STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 8 OF 10 SHEETS | STA. 11+00.00 TO STA. 11+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	21
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
ILLINOIS	FED. AID PROJECT ELIZ(942)			



FINAL SURVEY

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

ORIGINAL SURVEY

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

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	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
1585 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 9 OF 10 SHEETS | STA. 12+00.00 TO STA. 13+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	22
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
ILLINOIS	FED. AID PROJECT EIIZ(942)			

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

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

666
664
662
660

EXIST. R.O.W.

663.62

EXIST. R.O.W.

13+15.00

FILE NAME = 170166-sht-xssheet.dgn	USER NAME = rhoslck	DESIGNED - J.W.F.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 11/29/2018	DATE - 11/27/18	REVISED -

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STATE OF ILLINOIS
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
PEARSON BRIDGE

SCALE: 5H:2V | SHEET NO. 10 OF 10 SHEETS | STA. 13+15.00 | TO STA. 13+15.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
97	16-09101-05-BR	LIVINGSTON	23	23
ESMEN ROAD DISTRICT		CONTRACT NO. 87694		
	ILLINOIS	FED. AID PROJECT ELIZ(942)		