ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 141	16-02126 -00-BR	TAZEWELL	34	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 89721	

11-05-2021 LETTING ITEM 104

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	SCHEDULE OF QUANTITIES
5.	PLAN AND PROFILE
6.	SHOULDER AND GUARDRAIL LAYOUT
7-25.	BRIDGE PLANS
26-34.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
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

AMEREN/CILCO
300 LIBERTY STREET
PEORIA, IL 61602

CENTURY LINK
416 MARGARET STREET
PEKIN, IL 61554

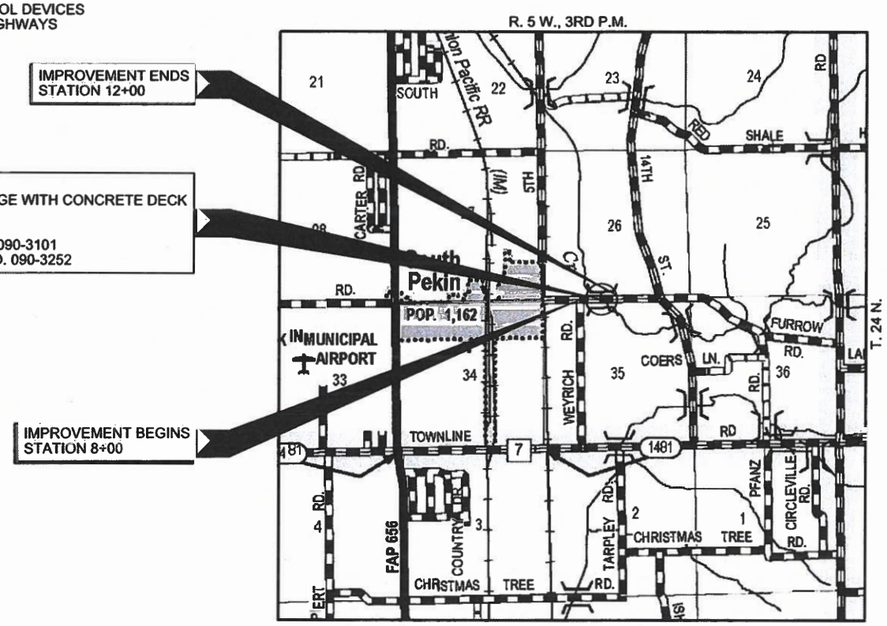
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM – BRIDGE

PROJECT SAJG(571)
SECTION 16–02126–00–BR
CINCINNATI ROAD DISTRICT
TAZEWELL COUNTY
T.R. 141 / FURROW ROAD
PROPOSED STRUCTURE NO. 090–3252
C–94–034–17

LOCATION OF SECTION INDICATED THUS: –

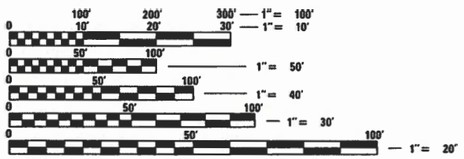


LOCATION MAP

APPROXIMATE SCALE: 0 ½ MILE

NET LENGTH OF SECTION = 400 FEET = 0.076 MILES

N



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:	50 MPH
DESIGN TRAFFIC:	525 ADT

CONTRACT NO. 89721 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

WARNING

CALL JULIE TOLL FREE 1-800-892-0123

CALL 811 BEFORE YOU DIG

DIG NO: X1630184

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED August 11, 20 21
Craig Tieb
COUNTY ENGINEER

APPROVED _____ 20 ____
TOWNSHIP COMMISSIONER

PASSED 08-20 20 21
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
AUGUST 23 20 21
Kenneth A. Barnett
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 08/11/2021
LICENSED PROFESSIONAL ENGINEER
Steven W. Hagaman
062-50051
STATE OF ILLINOIS
EXPIRES: 11/30/2021

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: 20.0025.130 DATE: 08/11/2021

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010 UNIT	TOTAL QUANTITY
* ^	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	22
* ^	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18
^	20200100	EARTH EXCAVATION	CU YD	660
	20300100	CHANNEL EXCAVATION	CU YD	720
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	359
	28000400	PERIMETER EROSION BARRIER	FOOT	1,385
	28100209	STONE RIPRAP, CLASS A5	TON	670
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	408
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,319
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	394
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	76
	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C", N50	TON	46
	42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	76
	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	448
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	530
	50300225	CONCRETE STRUCTURES	CU YD	66.8
^	50300255	CONCRETE SUPERSTRUCTURE	CU YD	125.0
	50300260	BRIDGE DECK GROOVING	SQ YD	575
^	50300300	PROTECTIVE COAT	SQ YD	624
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	94.4
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
	50500505	STUD SHEAR CONNECTORS	EACH	1,220
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	66,160
*	50901050	STEEL RAILING, TYPE SM	FOOT	188
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	450
	51202305	DRIVING PILES	FOOT	450
	51203600	TEST PILE STEEL HP12X53	EACH	1
	51500100	NAME PLATES	EACH	1
	52100520	ANCHOR BOLTS, 1"	EACH	20
^	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	145
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	70
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
	63200310	GUARDRAIL REMOVAL	FOOT	81

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010 UNIT	TOTAL QUANTITY
	67100100	MOBILIZATION	L SUM	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,300
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
^	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
^	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
#	Z0076600	TRAINEES	HOUR	1000
^	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	160
#	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

0042

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 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 AGGREGATE AND BITUMINOUS PAVEMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF PAVEMENT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

4) THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS AND PIPE DRAINS BEFORE ORDERING THESE ITEMS.

5) 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
STONE DUMPED RIPRAP 1.75 TON/CU YD

BITUMINOUS MATERIALS RATES

SURFACE TYPE	RESIDUAL RATE
AGGREGATE BASE (PRIME COAT)	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)	0.080 LB/SQ FT

6) 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.

7) THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.

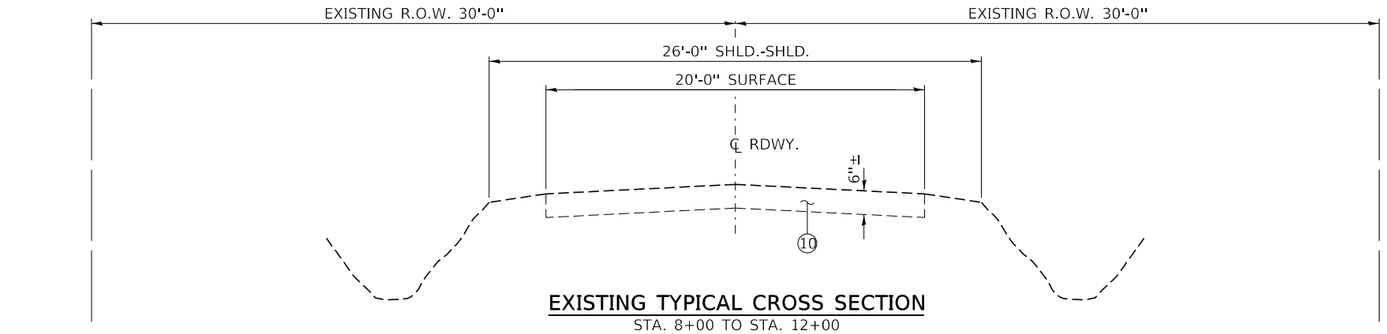
SEEDING, CLASS 2 (SPECIAL) : 0.3 ACRES

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

9) COMMITMENTS:

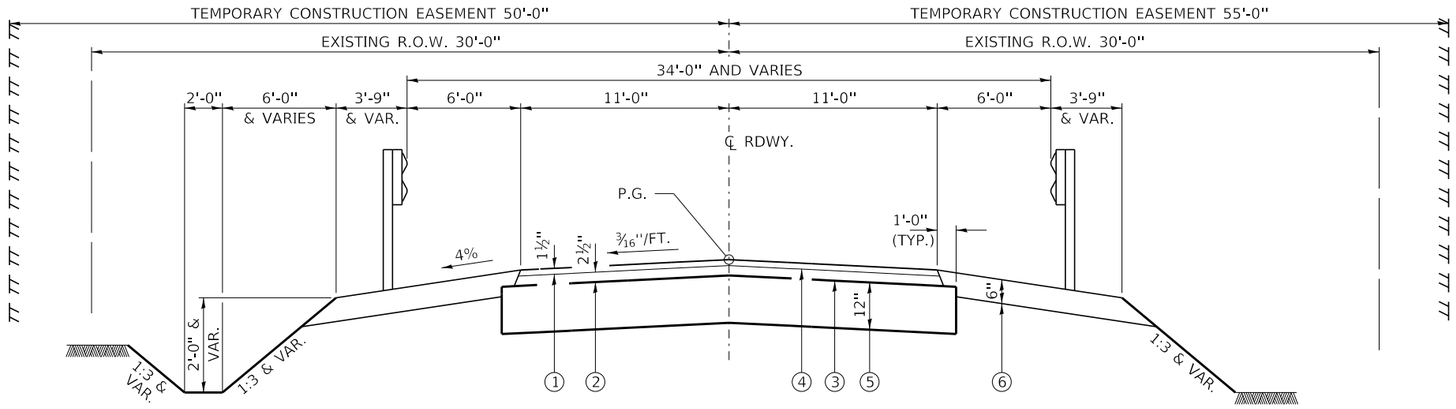
1) TREES SHALL NOT BE CLEARED BETWEEN APRIL 1 AND SEPTEMBER 30.

2) THE BRIDGE BAT ASSESMENT EXPIRES SEPTEMBER 21, 2022



EXISTING TYPICAL CROSS SECTION

STA. 8+00 TO STA. 12+00



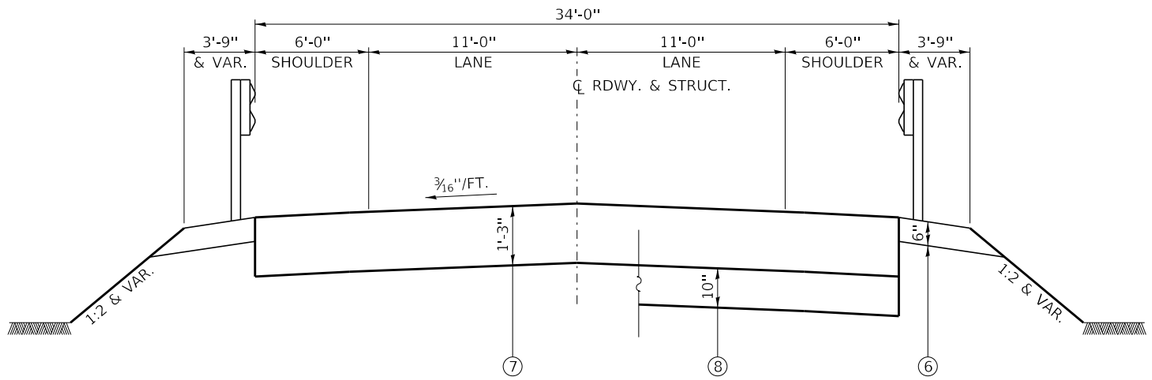
PROPOSED TYPICAL CROSS SECTION

STA. 8+00 TO 9+24 AND 10+76 TO 12+00

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. 8+00 TO 8+50 AND STA. 11+50 TO STA. 12+00. SEE SHEET 7 FOR TRANSITION AT BRIDGE.

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS



PROPOSED TYPICAL APPROACH SLAB CROSS SECTION

STA. 9+24 TO STA. 9+54 AND
STA. 10+46 TO STA. 10+76 — (7)

STA. 9+14 TO STA. 9+24 AND
STA. 10+76 TO STA. 10+86 — (9)

LEGEND

(1) HMA SURFACE COURSE, IL.-9.5, 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) BRIDGE APPROACH SLAB (15")
(8) BRIDGE APPROACH SLAB FOOTING (10")
(9) PAVEMENT CONNECTOR HMA
(10) EXISTING OIL & CHIP SURFACE ON AGGREGATE BASE

FILE NAME = 200026-sht-typsections.dgn	USER NAME = rhosick	DESIGNED - I.N.	REVISED -	**STATE OF ILLINOIS** **TAZEWELL COUNTY HIGHWAY DEPARTMENT**
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -	
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -	

TYPICAL CROSS SECTIONS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. 8+00 TO STA. 12+00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	3
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LINE 4"		
	EDGE LINE WHITE	NO PASSING YELLOW	SKIP DASH CENTERLINE YELLOW
	78001110		
	FOOT	FOOT	FOOT
TR 141 / FURROW ROAD			
LT. STA. 8+00.00 TO LT. STA. 12+00.00	400		
CL. STA. 8+00.00 TO CL. STA. 12+00.00			100
RCL. STA. 8+00.00 TO LCL. STA. 12+00.00		400	
RCL. STA. 8+00.00 TO LCL. STA. 12+00.00	400		
SUBTOTAL	800	400	100
TOTAL	1300		

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL & STRUCTURE EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 141 / FURROW ROAD							
STA. 8+00.00 TO STA. 9+14.00	298		25.00%	100.00%	223	117	106
STA. 9+14.00 TO STA. 10+86.00		1250	25.00%	70.00%	656		656
STA. 10+86.00 TO STA. 12+00.00	360		25.00%	100.00%	270	47	223
TOTAL	658	1250			1149	164	985
USE	660	1250					985

WASTE EXCAVATION 985 CU YDS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATIONS(S)	TR 141 / FURROW ROAD	TR 141 / FURROW ROAD
MIXTURE USE(S):	HMA SURFACE COURSE	HMA 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	NUCLEAR GAUGE	NUCLEAR GAUGE
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
TR 141 / FURROW ROAD	63100087	63100167	63200310	72501000	78200005
SEE SHEET 6 FOR LAYOUT	EACH	EACH	FOOT	EACH	EACH
LT. STA. 8+77.69 TO LT. STA. 11+22.31	2	2	46	2	4
RT. STA. 8+77.69 TO RT. STA. 11+22.31	2	2	35	2	4
TOTAL	4	4	81	4	8

NOTE: SEE SHEET 6 FOR STATIONING AND LAYOUT

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNIT	UNIT
TR 141 / FURROW ROAD		
RT. STA. 10+42	10	
RT. STA. 10+48	12	
RT. STA. 10+48		18
TOTAL	22	18
USE	22	18

ROADWAY SCHEDULE

LOCATION	AGGREGATE BASE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	AGGREGATE SHOULDERS, TYPE B 6"
	35101400	40600275	40600290	40603085	40604052	42000070	48101500
TR 141 / FURROW ROAD	TON	POUND	POUND	TON	TON	SQ YD	SQ YD
STA. 8+00.00 TO STA. 9+14.00	204	660	197	38	23	38	218
STA. 10+86.00 TO STA. 12+00.00	204	659	197	38	23	38	230
TOTAL	408	1319	394	76	46	76	448
USE	408	1319	394	76	46	76	448

GOLDIE HINTZ
SW¼, SEC 26, T. 24 N., R. 5 W., 3RD P.M.

BM#3
CP3
94.63°
25.57'
73.96'
I.P. W/CAP

P.I. STA. 5+50.00
P.K. NAIL (FLUSH)
N. 1394520.076
E. 2443446.049
ELEV. 507.74

BM#2
CP2
27.45°
73.05'
45.79'
RR SPIKE IN PVMT

P.I. STA. 14+49.77
P.K. NAIL (FLUSH)
N. 1394535.750
E. 2444345.685
ELEV. 510.81

N

0 20' 40'
GRAPHIC SCALE

STA. 10+00
WELDED STEEL PLATE GIRDER BRIDGE
WITH CAST IN PLACE CONCRETE SLAB DECK.
SINGLE SPAN @ 90'-0", 34'-0" ROADWAY;
SKEW = 0° PROPOSED SN 090-3252

GRASS
CROPS
LOST
CREEK
TEMPORARY CONST. EASEMENT
9+00.00 50.00' LT
9+00.00 30.00' LT
11+00.00 50.00' LT
11+00.00 30.00' LT
CONSTRUCTION LIMITS
℄ PROPOSED IMPROVEMENT
30' R.O.W.
30' EXIST.
FURROW RD / T.R. 141
N. LINE 35-24-5
9+00.00 30.00' RT
11+00.00 30.00' RT
9+00.00 55.00' RT
11+00.00 55.00' RT
14X2
CP1
BM#1
18-12
90°
7 8 9 10 11 12 13
IMPROVEMENT BEGINS STATION 8+00
IMPROVEMENT ENDS STATION 12+00
PERIMETER EROSION BARRIER

TREE REMOVAL
INDICATES TREE TO BE REMOVED

BERCHTOLD FAMILT TRUST #18901
NW¼, SEC 35, T. 24 N., R. 5 W., 3RD P.M.

JOE S BIRKY & SUSAN L HILL
NW¼, SEC 35, T. 24 N., R. 5 W., 3RD P.M.

EXISTING STRUCTURE NO. 090-3101
STATION 10+00 - SINGLE SPAN STEEL I-BEAM BRIDGE WITH CONCRETE DECK ON CLOSED PILE BENT ABUTMENTS WITH CONCRETE CAPS, CONCRETE PILES AND TIMBER BACKWALL.
57.8' BK.-BK. ABUTS: 28.3' o.-o. DECK

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

BM#3- BENCH TIE IN 3RD POWER POLE WEST OF BRIDGE, N SIDE OF FURROW RD. ELEV. 507.70

BM#1- CROSSNOTCH AND SQUARE ON BRIDGE CURB, SWX 12' RT., STA. 9+71 ELEV. 514.45

BM#2- BENCH TIE IN 4TH PP EAST OF BRIDGE N. SIDE OF FURROW RD. ELEV. 510.92

VPI STA. 8+60
ELEV. 511.40
K = 382
120' V.C.

VPI STA. 10+00
ELEV. 513.90
K = 45
160' V.C.

VPI STA. 11+40
ELEV. 511.40
K = 256
120' V.C.

100 YEAR H.W. ELEV. 505.4
20 YEAR H.W. ELEV. 502.9

PROPOSED ℄ GRADE
EXISTING ℄ GRADE
+2.10%
+1.79%
-1.79%
-1.32%
CHANNEL EXCAVATION
1V:2H
STONE RIPRAP, CLASS A5
℄ ELEV. 493.5

525 520 515 510 505 500 495 490 485

508.6 509.0 510.1 510.14 511.6 511.16 513.0 512.11 513.8 512.91 514.0 513.19 513.9 512.91 513.7 512.12 512.3 511.32 510.6 510.61 510.2 510.0

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
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

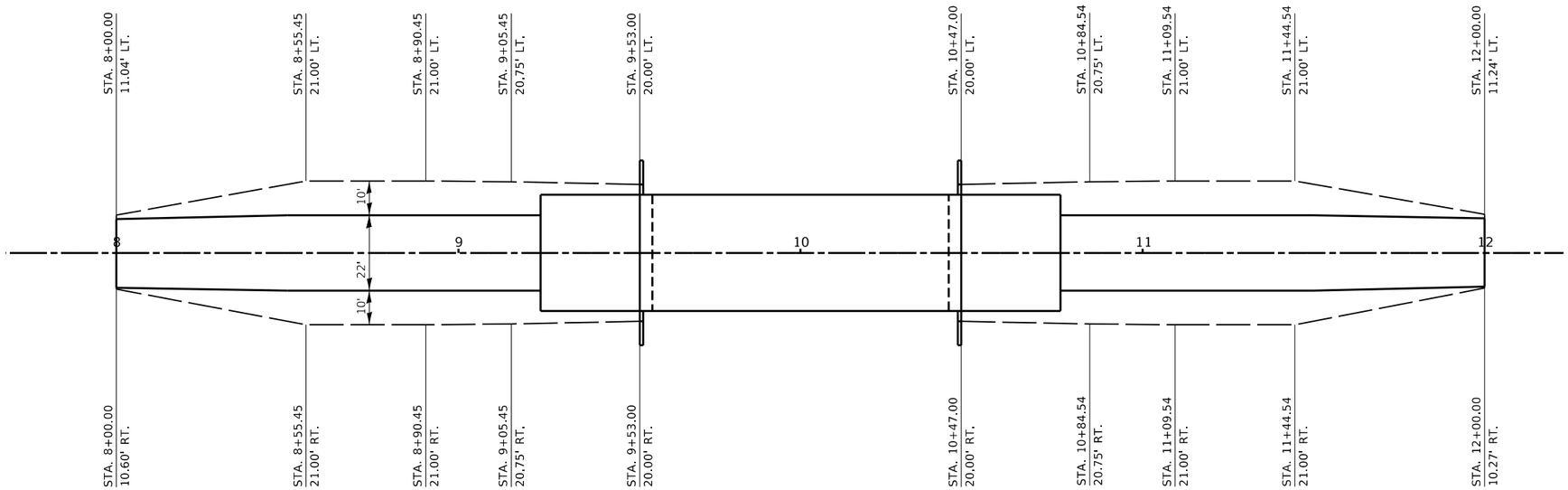
FILE NAME = 200025-sht-PlnPrf.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

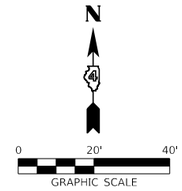
PLAN & PROFILE
FURROW ROAD

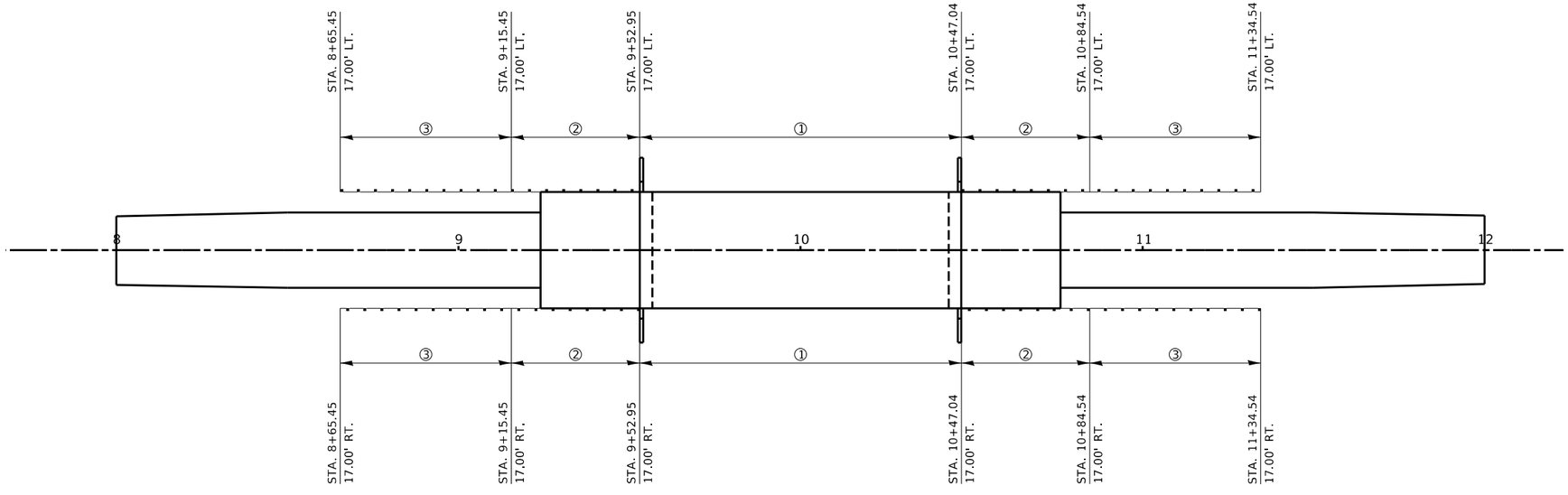
SCALE: 5H:2V | SHEET NO. 1 OF 1 SHEETS | STA. 7+00.00 | TO STA. 13+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	5
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			



SHOULDER LAYOUT





GUARDRAIL LAYOUT

LEGEND

① STEEL RAILING, TYPE SM
② TBT TY 6A
③ TBT TY 1, SPECIAL TANGENT

FILE NAME = 200025-sht-shdgrdrl.dgn	USER NAME = rhoslck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

SHOULDER AND GUARDRAIL LAYOUT

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

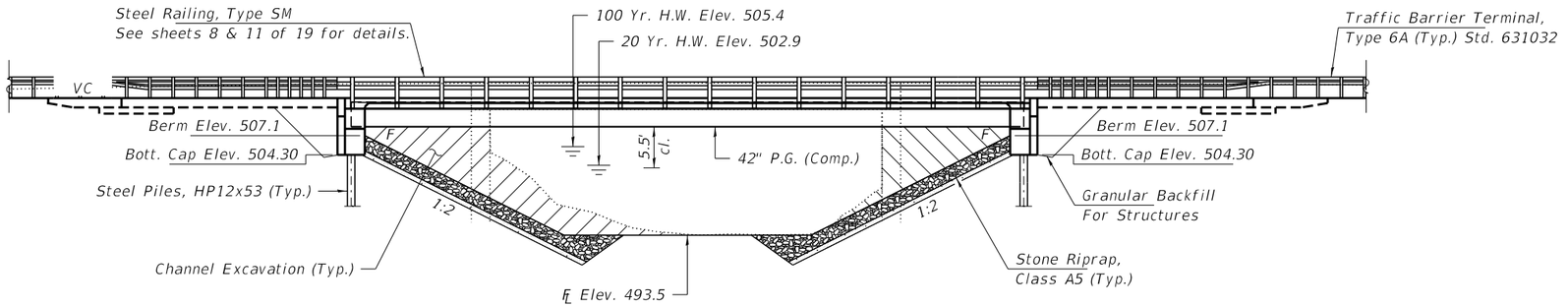
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	6
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

BENCHMARK: Chiseled "⊠" on S.W. curb, 12' Rt., Sta. 9+71, Elev. 514.45

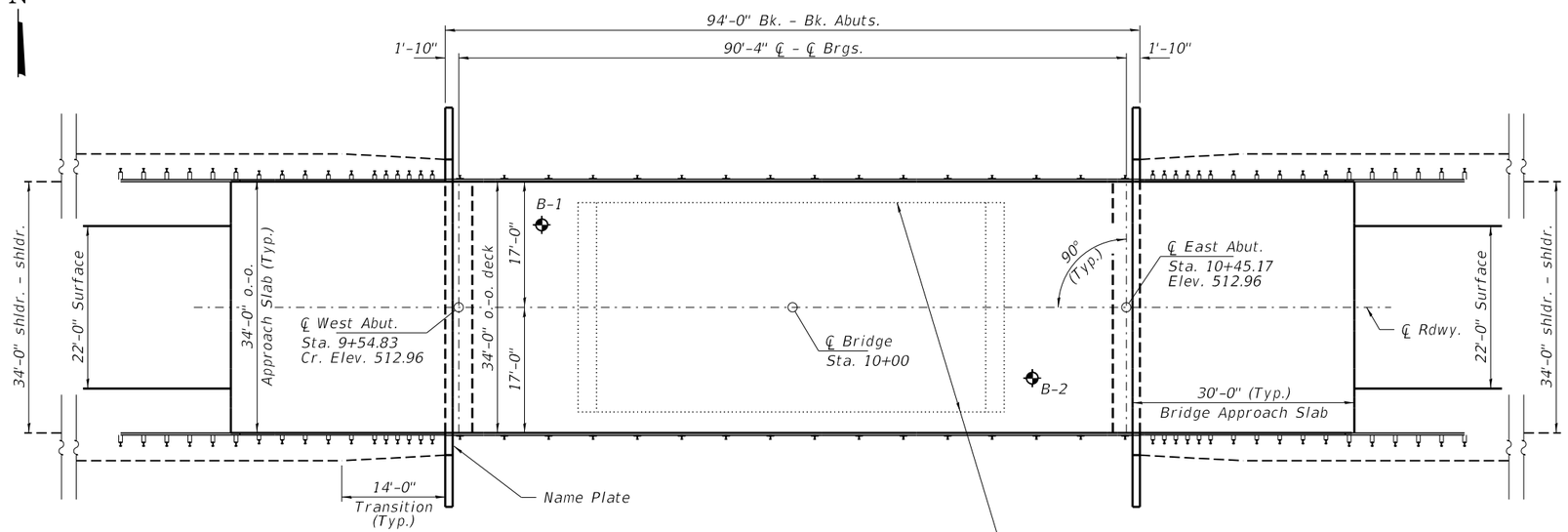
EXISTING STRUCTURE NO. 090-3101: Sta. 10+00 – Single span steel beam bridge with a C.I.P. concrete deck on spill thru concrete abutments and wingwalls. 57.8' bk.-bk. abuts., 28.3' o.-o. deck.

Structure closed to traffic during construction.

No Salvage



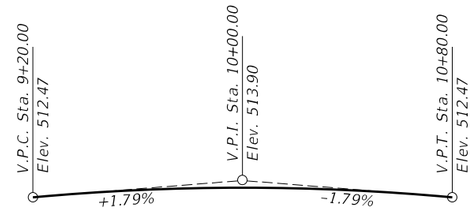
ELEVATION



PLAN

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Details
3-4. Top of Slab Elevations
5. Top of West Approach Elevations
6. Top of East Approach Elevations
7. Superstructure
8. Superstructure Details
9-10. Bridge Approach Slab Details
11. Steel Railing, Type SM
12. Structural Steel
13-14. Structural Steel Details
15. West Abutment
16. East Abutment
17. HP Pile Details
18-19. Borings



160.00' V.C.

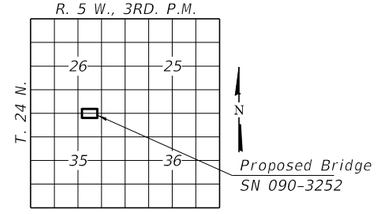
PROFILE GRADE

T.R. 141

LOST CREEK
BUILT 202_ BY
TAZEWELL COUNTY
SEC. 16-02126-00-BR
CINCINNATI ROAD DISTRICT
STR. NO. 090-3252
LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'c = 5,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Structural steel) (M270 Gr 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.172
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.298
Soil Site Class = E

WATERWAY INFORMATION

Drainage Area = 12.8 Sq. Mi.
Existing Low Grade Elev. 508.6 at Sta. 7+00
Proposed Low Grade Elev. 508.6 at 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.
Ten-Year	10	2290	300	380	501.7	0.3	0.1	502.0	501.8
Design	20	2910	360	450	502.9	0.3	0.1	503.2	503.0
Base	100	4400	500	630	505.4	0.5	0.1	505.9	505.5
Scour Check	200	5110	550	720	506.5	0.5	0.2	507.0	506.7
Max. Calc.	500	6040	630	840	508.0	0.6	0.2	508.6	508.2

10 Year Velocity through Existing Bridge = 7.6 fps 10 Year Velocity through Proposed Bridge = 6.0 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elev. (ft.) W. Abut.	Design Scour Elev. (ft.) E. Abut.	Item 113
Q100	504.3	504.3	8
Q200	504.3	504.3	
Design	504.3	504.3	
Check	504.3	504.3	

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 08/11/2021
ILLINOIS STRUCTURAL NO. 081-6064

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

Expires 11-30-2022

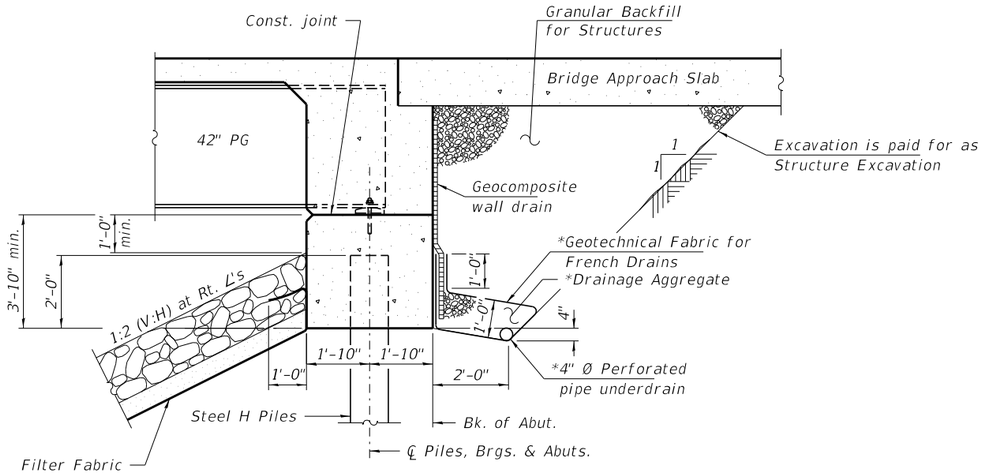
GENERAL PLAN & ELEVATION
T.R. 141 / FURROW ROAD
SECTION 16-02126-00-BR
TAZEWELL COUNTY
STATION 10+00.00
STRUCTURE NO. 090-3252

FILE NAME = 200025-shl-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	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.M.S.	REVISED -
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 090-3252
SHEET NO. 1 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	7
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

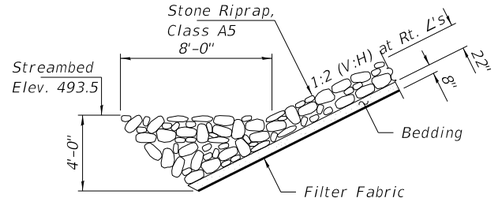


SECTION THRU INTEGRAL ABUTMENT

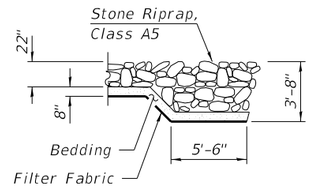
(Horiz. dim. at Rt. ℄'s)

*Included in the cost of Pipe Underdrains for Structures, 4"

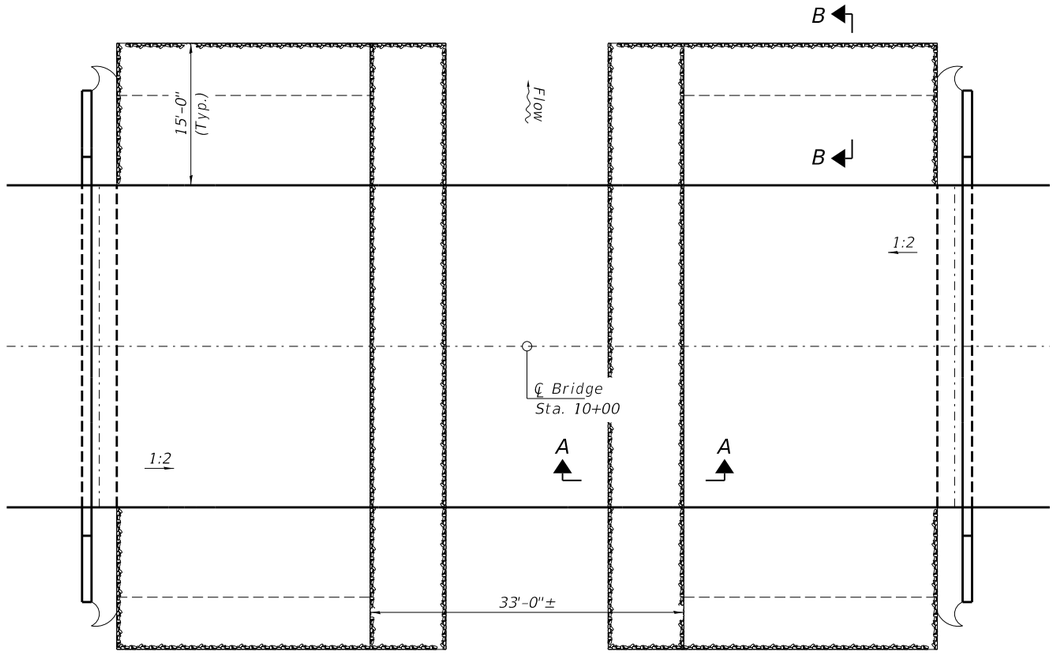
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101). Concrete headwalls shall be included in the cost of Pipe Underdrains for Structures 4".



SECTION A-A



SECTION B-B



RIPRAP LAYOUT

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts $\frac{7}{8}$"Ø, holes $15/16$"Ø, unless otherwise noted.

Calculated weight of Structural Steel = 97,440 lbs.

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at West Abutment or approved by the Engineer before ordering the remainder of piles.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Structural steel shall only be painted from distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

The top surface of the deck shall be screeded with a straight edge. Further finishing shall be delayed until the water sheen appears, but not to the point of rendering further manipulation ineffective. The surface then shall be roughened with a suitable stiff-bristled broom or wire brush drawn in transverse direction removing any laitance present and breaking up the water sheen. The corrugations formed shall be uniform in appearance and in no case more than ¼" in depth.

TOTAL BILL OF MATERIAL

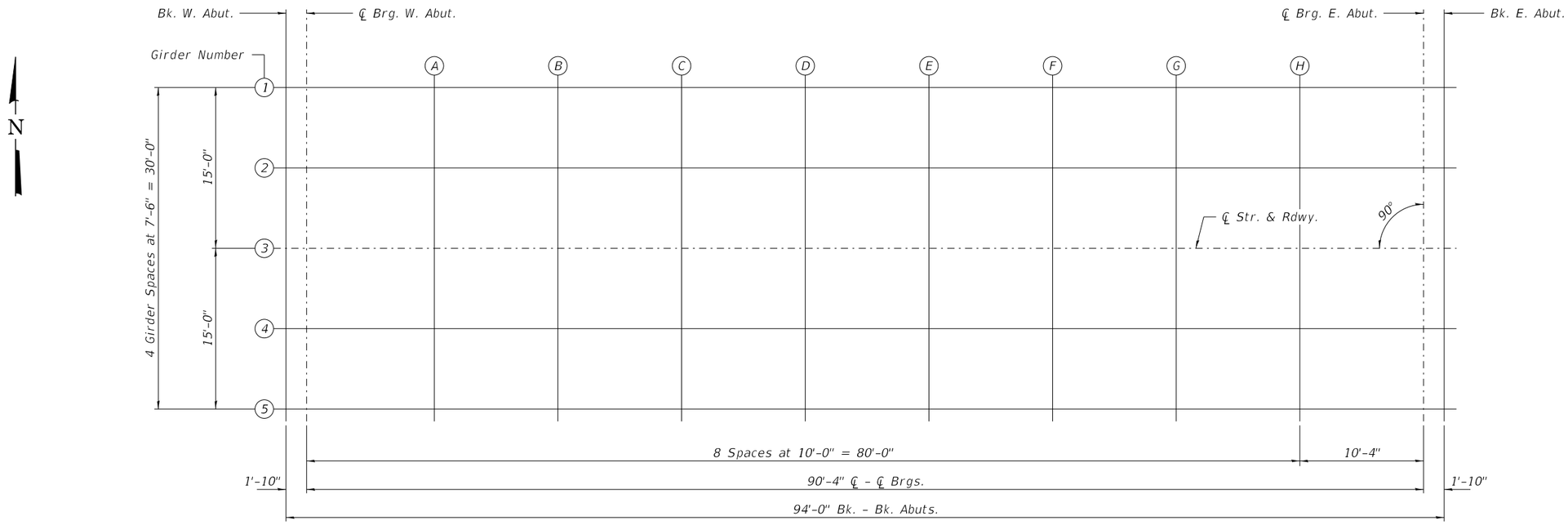
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		720	720
Stone Riprap, Class A5	Ton		670	670
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		530	530
Concrete Structures	Cu. Yd.		66.8	66.8
Concrete Superstructure	Cu. Yd.	125.0		125.0
Bridge Deck Grooving	Sq. Yd.	575		575
Protective Coat	Sq. Yd.	604	20	624
Concrete Superstructure (Approach Slab)	Cu. Yd.	94.4		94.4
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,220		1,220
Reinforcement Bars, Epoxy Coated	Pound	54,290	11,870	66,160
Steel Railing, Type SM	Foot	188		188
Furnishing Steel Piles HP12X53	Foot		450	450
Driving Piles	Foot		450	450
Test Pile Steel HP12X53	Each		1	1
Name Plates	Each		1	1
Anchor Bolts, 1"	Each		20	20
Granular Backfill for Structures	Cu. Yd.		145	145
Geocomposite Wall Drain	Sq. Yd.		70	70
Pipe Underdrains for Structures 4"	Foot		160	160

FILE NAME = 200025-sht-bridge.dgn | USER NAME = rhoslck | DESIGNED - I.P.N. | 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.M.S. | REVISED -
PLOT SCALE = | DRAWN - A.C. | REVISED -
PLOT DATE = 8/20/2021 | CHECKED - S.M.S. | REVISED -

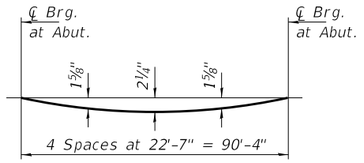
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

GENERAL DETAILS
STRUCTURE NO. 090-3252
SHEET NO. 2 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	8
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			



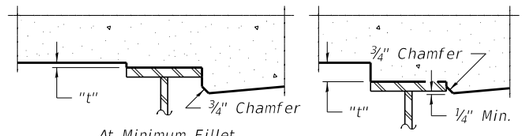
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 of 19.



At Minimum Fillet

At Maximum Fillet

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 19, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.M.S.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - A.C.	REVISED -	
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -	

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 090-3252
SHEET NO. 3 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	9
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
	ILLINOIS	FED. AID PROJECT SAJG(571)		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	9+53.00	-15.00	512.70	512.70
End Dk. W. Abut.	9+54.00	-15.00	512.71	512.71
℄ Brg. W. Abut.	9+54.83	-15.00	512.72	512.72
A	9+64.83	-15.00	512.81	512.88
B	9+74.83	-15.00	512.88	513.00
C	9+84.83	-15.00	512.92	513.09
D	9+94.83	-15.00	512.95	513.13
E	10+04.83	-15.00	512.95	513.14
F	10+14.83	-15.00	512.93	513.09
G	10+24.83	-15.00	512.88	513.01
H	10+34.83	-15.00	512.81	513.88
℄ Brg. E. Abut.	10+45.17	-15.00	512.72	512.72
End Dk. E Abut.	10+46.00	-15.00	512.71	512.71
Bk. E. Abut.	10+47.00	-15.00	512.70	512.70

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	9+53.00	-7.50	512.82	512.82
End Dk. W. Abut.	9+54.00	-7.50	512.83	512.83
℄ Brg. W. Abut.	9+54.83	-7.50	512.84	512.84
A	9+64.83	-7.50	512.93	512.99
B	9+74.83	-7.50	513.00	513.12
C	9+84.83	-7.50	513.04	513.21
D	9+94.83	-7.50	513.06	513.25
E	10+04.83	-7.50	513.06	513.25
F	10+14.83	-7.50	513.04	513.21
G	10+24.83	-7.50	513.00	513.12
H	10+34.83	-7.50	512.93	513.00
℄ Brg. E. Abut.	10+45.17	-7.50	512.84	512.84
End Dk. E. Abut.	10+46.00	-7.50	512.83	512.83
Bk. E. Abut.	10+47.00	-7.50	512.82	512.82

℄ STRUCTURE & BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	9+53.00	0.00	512.94	512.94
End Dk. W. Abut.	9+54.00	0.00	512.95	512.95
℄ Brg. W. Abut.	9+54.83	0.00	512.96	512.96
A	9+64.83	0.00	513.05	513.11
B	9+74.83	0.00	513.11	513.24
C	9+84.83	0.00	513.16	513.32
D	9+94.83	0.00	513.18	513.37
E	10+04.83	0.00	513.18	513.37
F	10+14.83	0.00	513.16	513.33
G	10+24.83	0.00	513.12	513.24
H	10+34.83	0.00	513.05	513.12
℄ Brg. E. Abut.	10+45.17	0.00	512.96	512.96
End Dk. E. Abut.	10+46.00	0.00	512.95	512.95
Bk. E. Abut.	10+47.00	0.00	512.94	512.94

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	9+53.00	7.50	512.82	512.82
End Dk. W. Abut.	9+54.00	7.50	512.83	512.83
℄ Brg. W. Abut.	9+54.83	7.50	512.84	512.84
A	9+64.83	7.50	512.93	512.99
B	9+74.83	7.50	513.00	513.12
C	9+84.83	7.50	513.04	513.21
D	9+94.83	7.50	513.06	513.25
E	10+04.83	7.50	513.06	513.25
F	10+14.83	7.50	513.04	513.21
G	10+24.83	7.50	513.00	513.12
H	10+34.83	7.50	512.93	513.00
℄ Brg. E. Abut.	10+45.17	7.50	512.84	512.84
End Dk. E. Abut.	10+46.00	7.50	512.83	512.83
Bk. E. Abut.	10+47.00	7.50	512.82	512.82

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	9+53.00	15.00	512.70	512.70
End Dk. W. Abut	9+54.00	15.00	512.71	512.71
℄ Brg. W. Abut.	9+54.83	15.00	512.72	512.72
A	9+64.83	15.00	512.81	512.88
B	9+74.83	15.00	512.88	513.00
C	9+84.83	15.00	512.92	513.09
D	9+94.83	15.00	512.95	513.13
E	10+04.83	15.00	512.95	513.14
F	10+14.83	15.00	512.93	513.09
G	10+24.83	15.00	512.88	513.01
H	10+34.83	15.00	512.81	513.88
℄ Brg. E. Abut.	10+45.83	15.00	512.72	512.72
End Dk. E. Abut.	10+46.00	15.00	512.71	512.71
Bk. E. Abut.	10+47.00	15.00	512.70	512.70

NORTH EDGE OF SHOULDER

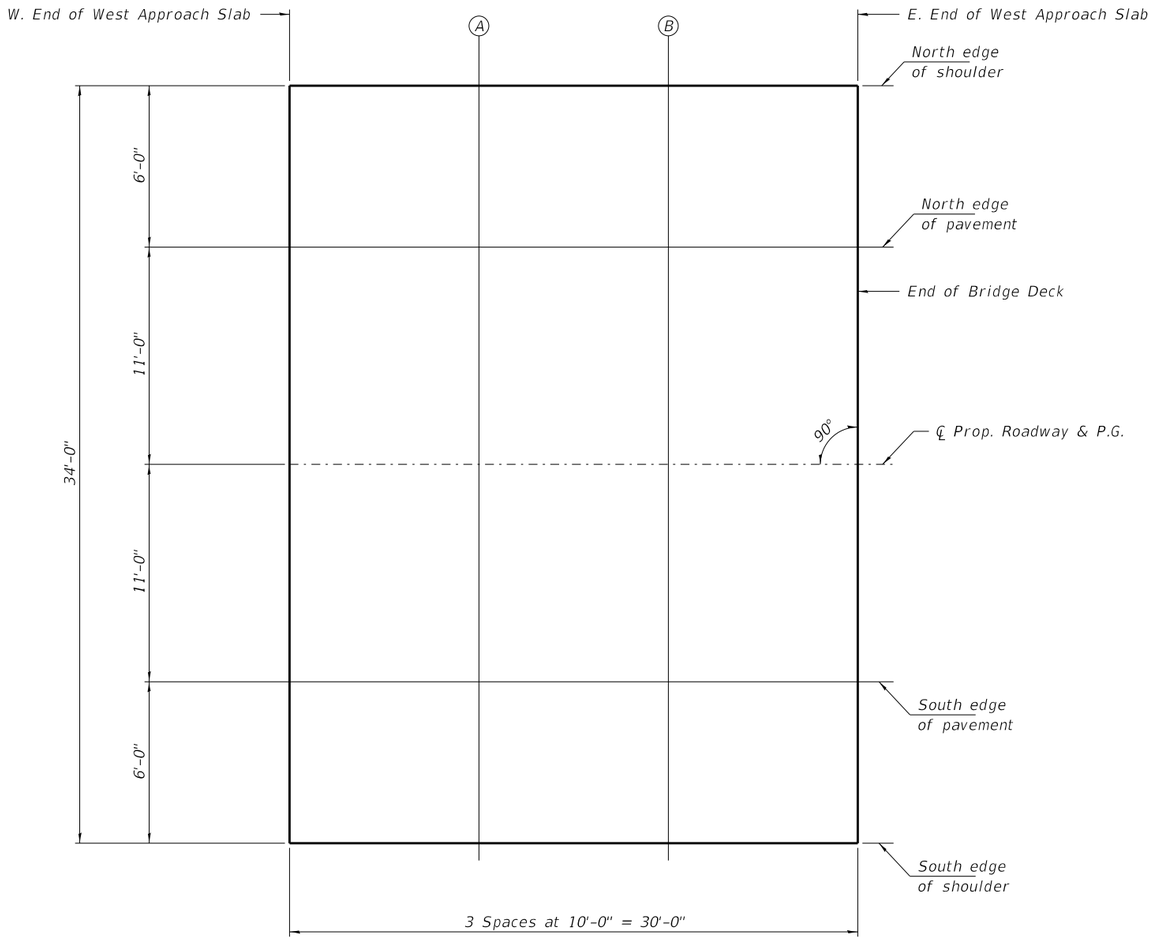
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	9+24.00	-17.00	512.27
A	9+34.00	-17.00	512.43
B	9+44.00	-17.00	512.56
E. End West Appr. Slab	9+54.00	-17.00	512.68

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	9+24.00	-11.00	512.37
A	9+34.00	-11.00	512.53
B	9+44.00	-11.00	512.66
E. End West Appr. Slab	9+54.00	-11.00	512.78

℄ PROPOSED ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	9+24.00	0.00	512.54
A	9+34.00	0.00	512.70
B	9+44.00	0.00	512.83
E. End West Appr. Slab	9+54.00	0.00	512.95



WEST APPROACH SLAB - PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	9+24.00	11.00	512.37
A	9+34.00	11.00	512.53
B	9+44.00	11.00	512.66
E. End West Appr. Slab	9+54.00	11.00	512.78

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	9+24.00	17.00	512.27
A	9+34.00	17.00	512.43
B	9+44.00	17.00	512.56
E. End West Appr. Slab	9+54.00	17.00	512.68

NORTH EDGE OF SHOULDER

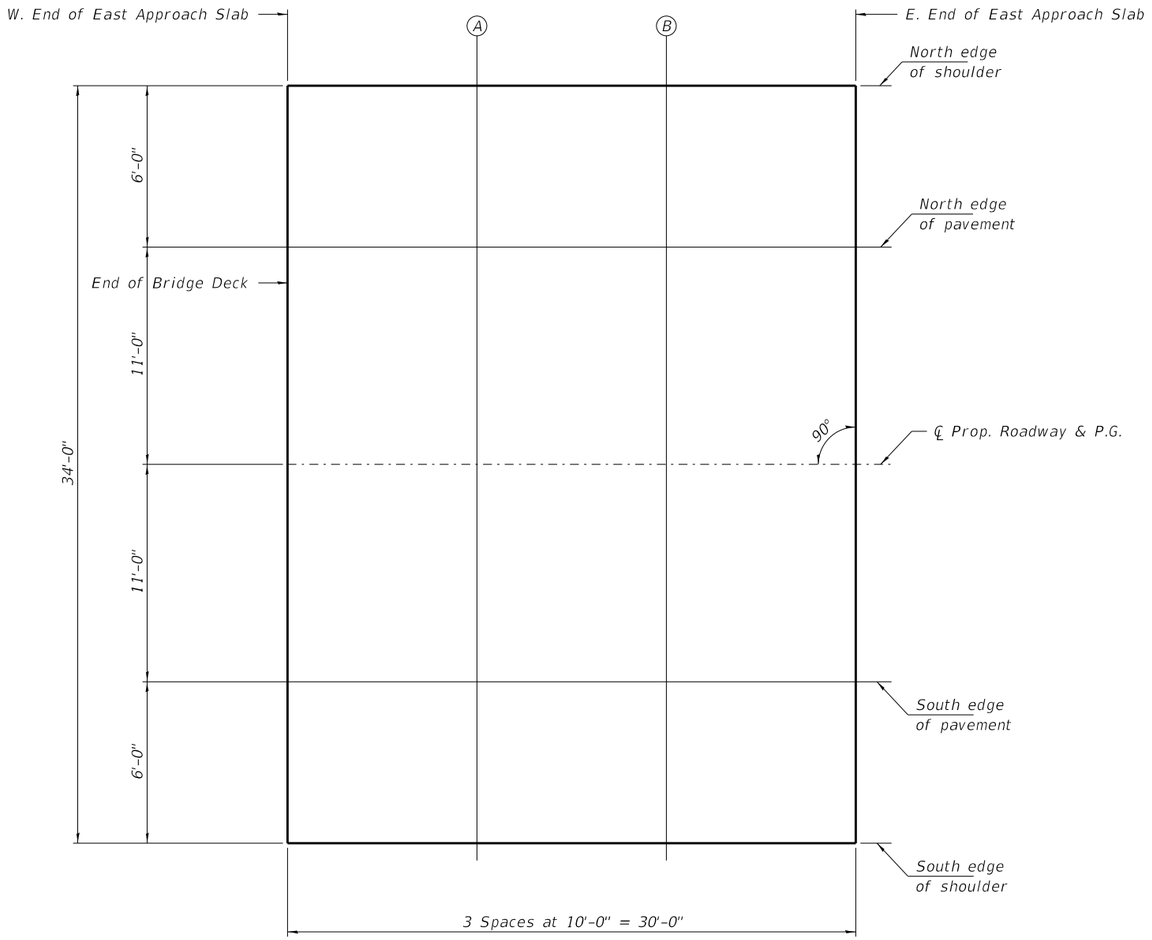
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	10+46.00	-17.00	512.68
A	10+56.00	-17.00	512.56
B	10+66.00	-17.00	512.43
E. End East Appr. Slab	10+76.00	-17.00	512.27

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	10+46.00	-11.00	512.78
A	10+56.00	-11.00	512.66
B	10+66.00	-11.00	512.53
E. End East Appr. Slab	10+76.00	-11.00	512.57

℄ PROPOSED ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	10+46.00	0.00	512.95
A	10+56.00	0.00	512.83
B	10+66.00	0.00	512.70
E. End East Appr. Slab	10+76.00	0.00	512.54



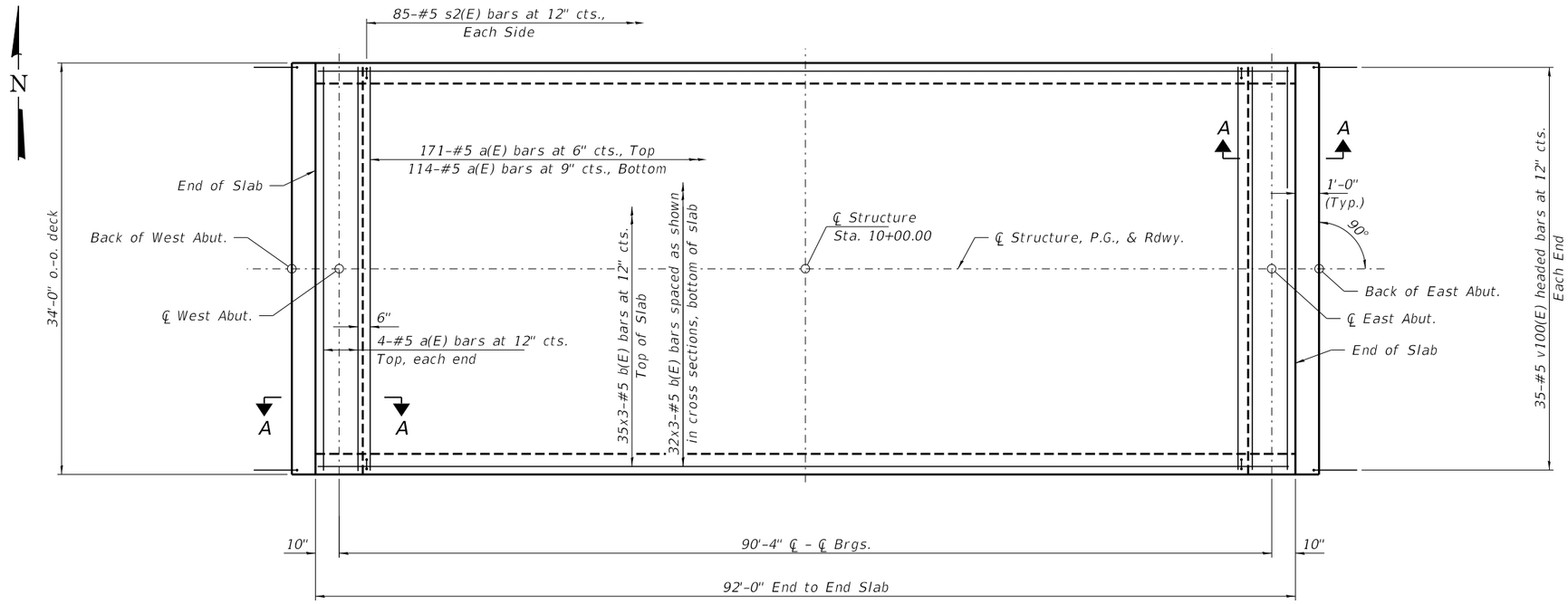
EAST APPROACH SLAB - PLAN

SOUTH EDGE OF PAVEMENT

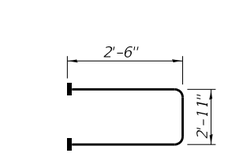
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	10+46.00	11.00	512.78
A	10+56.00	11.00	512.66
B	10+66.00	11.00	512.53
E. End East Appr. Slab	10+76.00	11.00	512.37

SOUTH EDGE OF SHOULDER

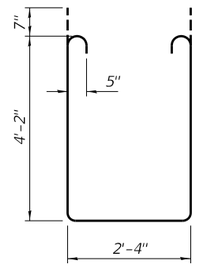
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	10+46.00	17.00	512.68
A	10+56.00	17.00	512.56
B	10+66.00	17.00	512.43
E. End East Appr. Slab	10+76.00	17.00	512.27



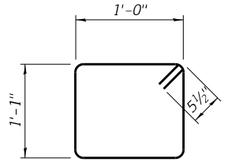
PLAN



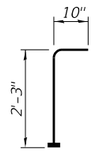
BAR s(E)
(Headed)



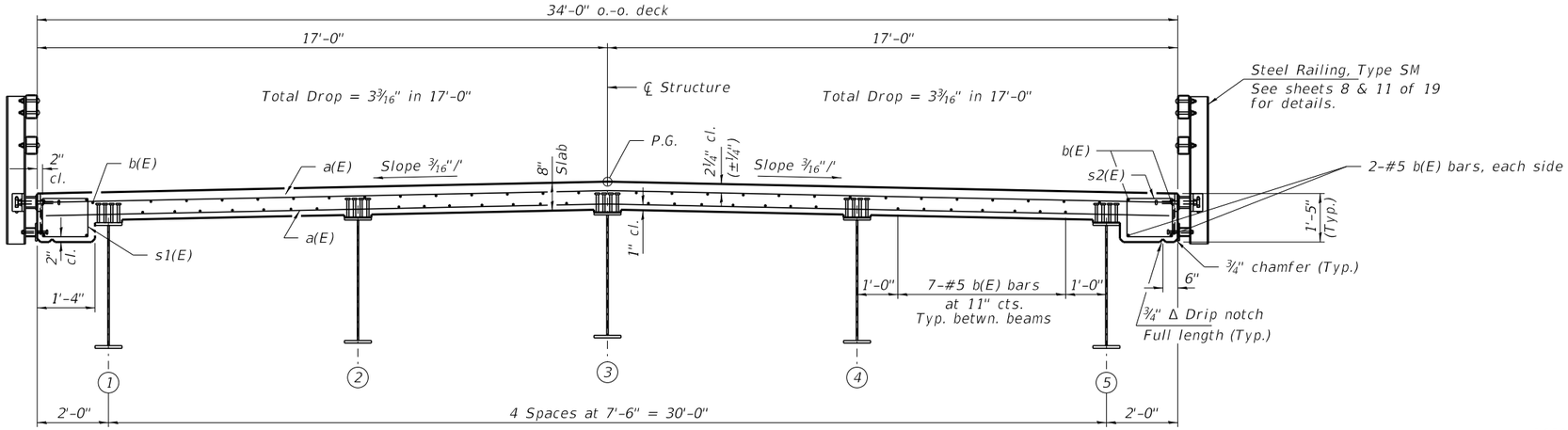
BAR s1(E)



BAR s2(E)



BAR v100(E)
(Headed)



CROSS SECTION
(Looking East)

SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	293	#5	33'-8"	
b(E)	201	#5	32'-11"	
m(E)	10	#6	33'-8"	
m1(E)	32	#6	7'-0"	
m2(E)	16	#6	1'-7"	
s(E)	64	#5	7'-11"	
s1(E)	64	#5	11'-10"	
s2(E)	170	#5	5'-1"	
v100(E)	70	#5	3'-1"	
Concrete Superstructure		Cu. Yd.	125.0	
Bridge Deck Grooving		Sq. Yd.	348	
Protective Coat		Sq. Yd.	377	
Reinforcment Bars, Epoxy Coated		Pound	20,510	

MIN. BAR LAP
#5 bars = 3'-6"

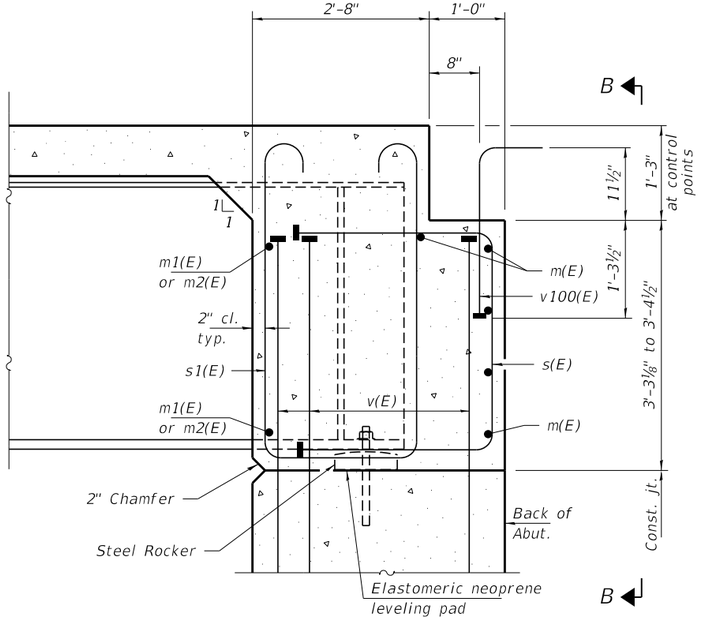
Notes:
See sheet 8 of 19 for Superstructure Details.
See sheet 8 of 19 for SECTION A-A.
Bars indidcated thus 26x5-#5 etc. indicates 26 lines of bars with 5 lengths per line.

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	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.M.S.	REVISED -
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

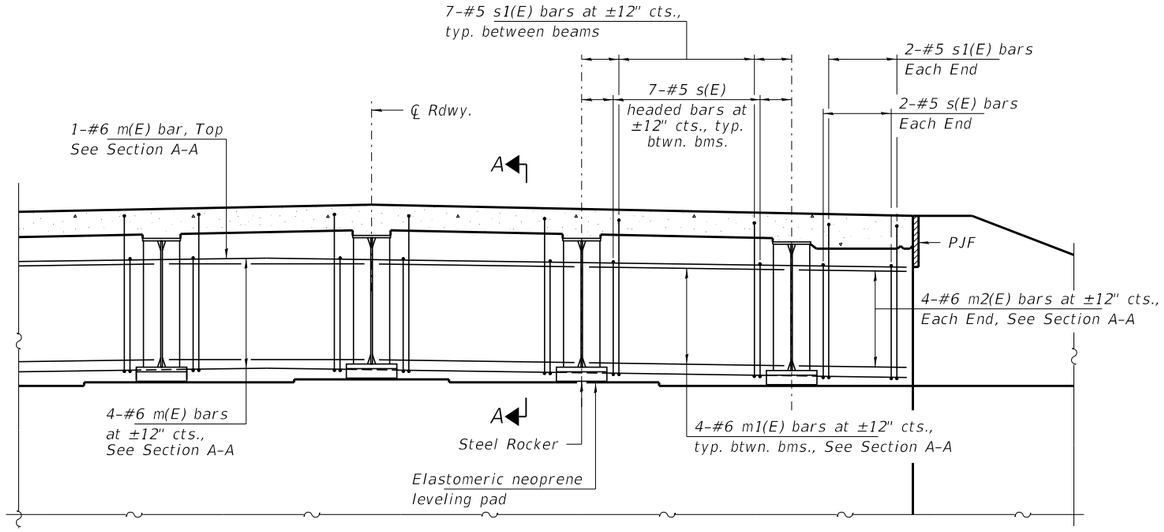
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

SUPERSTRUCTURE
STRUCTURE NO. 090-3252
SHEET NO. 7 OF 19 SHEETS

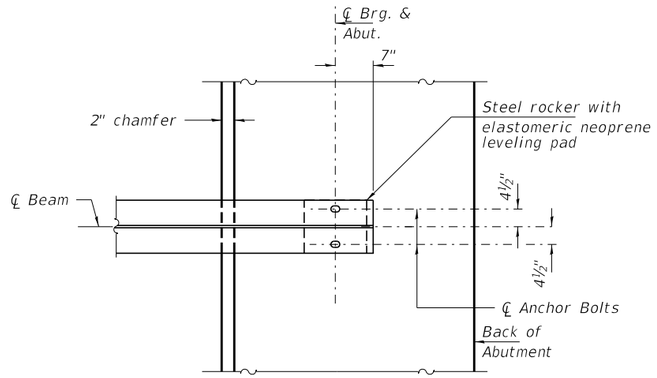
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	13
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			



SECTION A-A

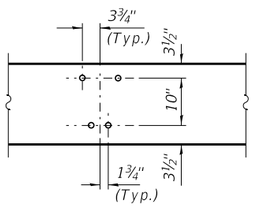


DIAPHRAGM AT ABUTMENT



PARTIAL PLAN AT ABUTMENT

(Showing bottom flange of beam)



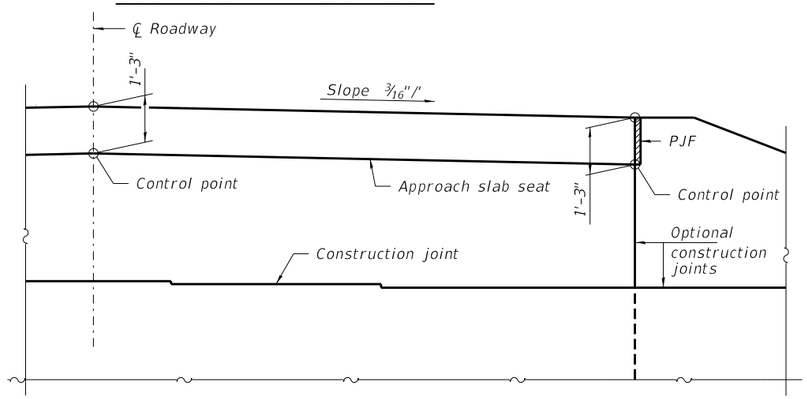
DETAIL A

Notes:

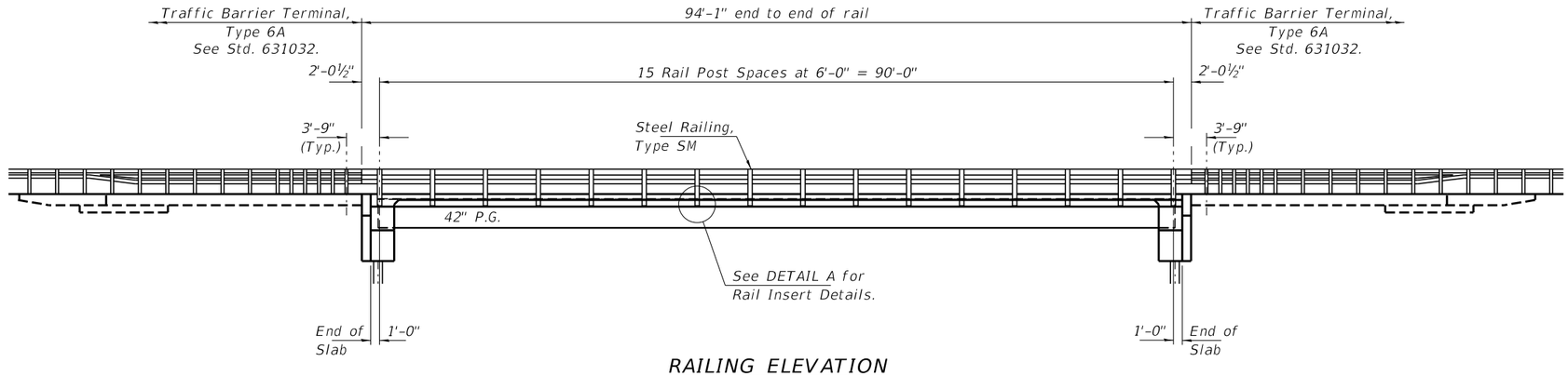
Reinforcement bars in diaphragm are billed with Superstructure on sheet 7 of 19.

Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 19.

The s(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



VIEW B-B

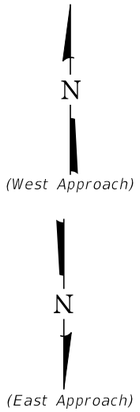


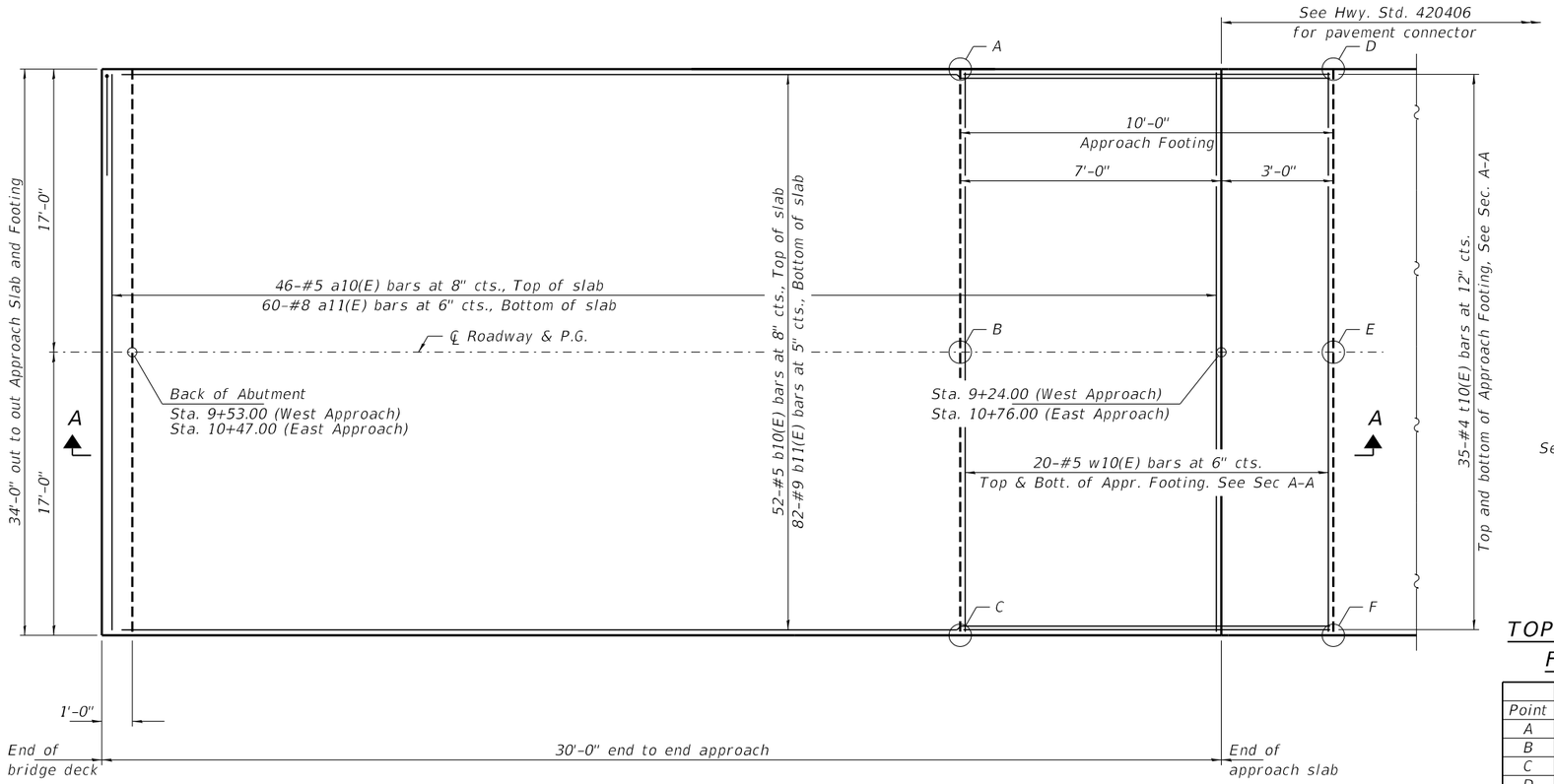
RAILING ELEVATION

Showing Rail Post Spaces

See sheet 11 of 19 for Railing Details.

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rnoslck	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS TAZEWELL COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 090-3252	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.M.S.	REVISED -			141	16-02126-00-BR	TAZEWELL	34	14
PLOT SCALE =		DRAWN - A.C.	REVISED -			CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
PLOT DATE = 8/20/2021		CHECKED - S.M.S.	REVISED -		SHEET NO. 8 OF 19 SHEETS	ILLINOIS	FED. AID PROJECT SAJG(571)			



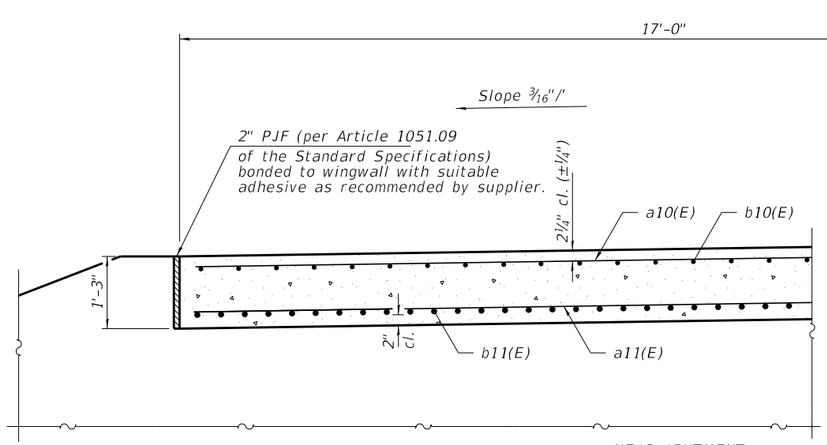


PLAN

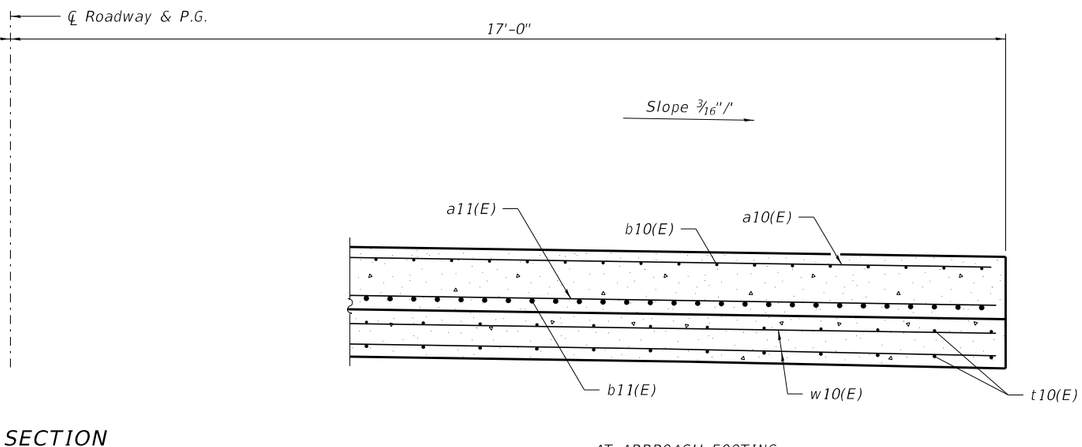
See sheet 10 of 19 for Section A-A details.

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	West Approach		East Approach	
Point	Top	Bottom	Top	Bottom
A	511.14	510.30	511.14	510.30
B	511.40	510.57	511.40	510.57
C	511.14	510.30	511.14	510.30
D	510.97	510.14	510.97	510.14
E	511.24	510.40	511.24	510.40
F	510.97	510.14	510.97	510.14



NEAR ABUTMENT



CROSS SECTION
(Looking East)

AT APPROACH FOOTING

BA-CIP-R34-0 6-15-2019

(Sheet 1 of 2)

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	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.M.S.	REVISED -
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

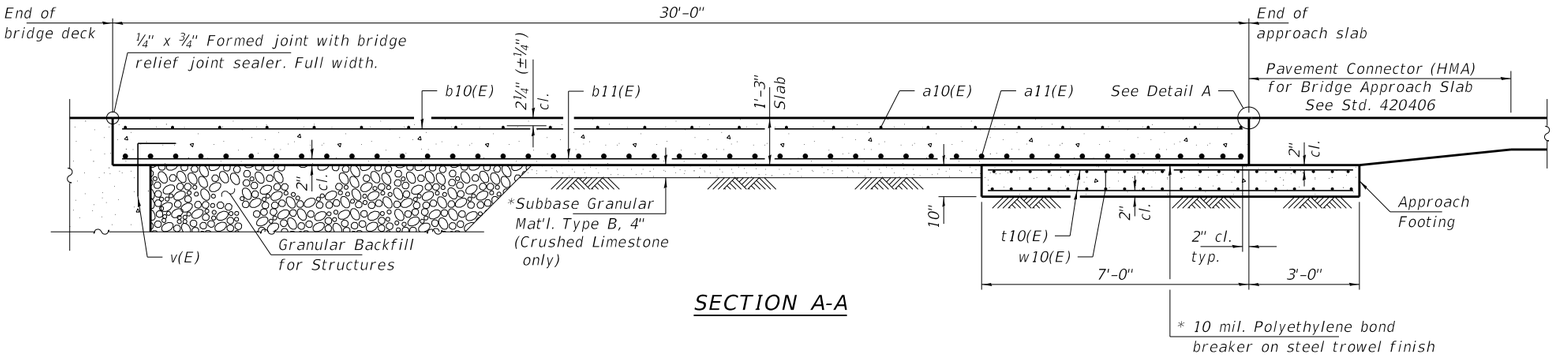
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 090-3252

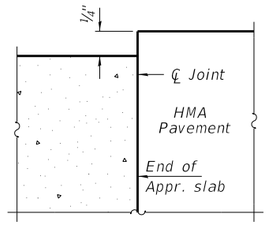
SHEET NO. 9 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	15
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.
Approach footing reinforcement bars are separated in the "TOTAL BILL OF MATERIALS" on sheet 2 of 19 and included with the "SUB" total.



SECTION A-A



DETAIL A

* = Incidental to concrete superstructure (approach slab).

TWO APPROACHES BILL OF MATERIAL - SUPERSTRUCTURE

Bar	No.	Size	Length	Shape
a10(E)	92	#5	33'-8"	———
a11(E)	120	#8	33'-8"	———
b10(E)	104	#5	29'-8"	———
b11(E)	164	#9	29'-8"	———
Bridge Deck Grooving			Sq. Yd.	227
Protective Coat			Sq. Yd.	227
Concrete Superstructure (Approach Slab)			Cu. Yd.	94.4
Reinforcement Bars, Epoxy Coated			Pound	33,780

TWO APPROACHES BILL OF MATERIAL - SUBSTRUCTURE

Bar	No.	Size	Length	Shape
t10(E)	140	#4	9'-8"	———
w10(E)	80	#5	33'-8"	———
Concrete Structures			Cu. Yd.	21.0
Reinforcement Bars, Epoxy Coated			Pound	3,710

BA-CIP-R34-0 6-15-2019

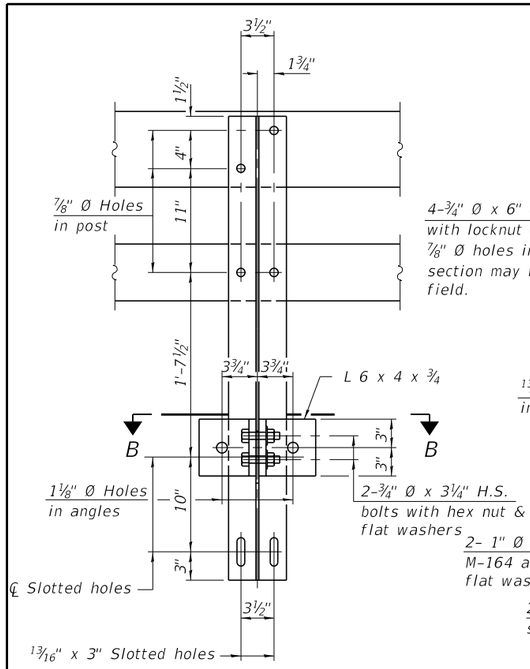
(Sheet 2 of 2)

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	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.M.S.	REVISED -
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

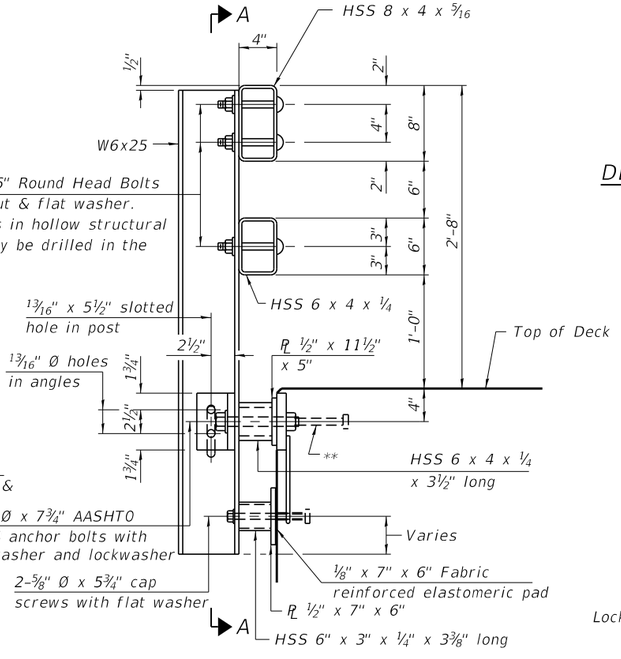
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 090-3252
SHEET NO. 10 OF 19 SHEETS

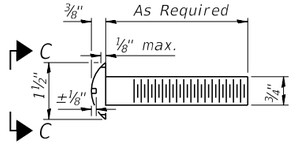
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	16
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			



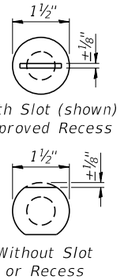
SECTION A-A



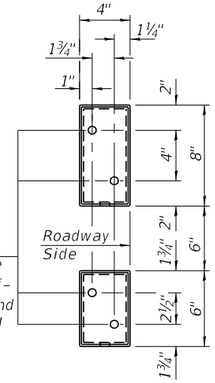
SECTION AT RAIL POST



DETAIL OF ¾" Ø ROUND HEAD BOLT

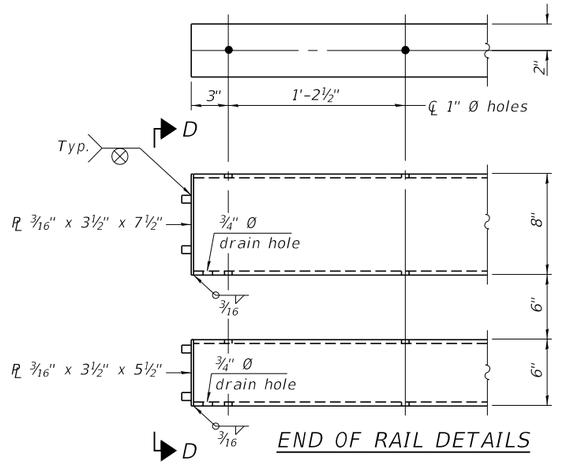


VIEW C-C

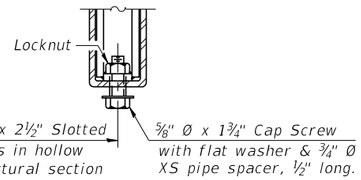


℄ -⅝" reduced base welded studs. Provide 4-⅝" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032 .

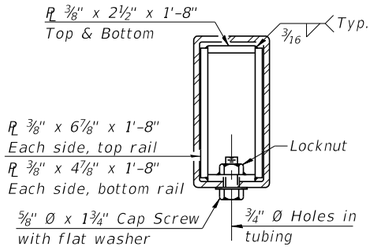
VIEW D-D



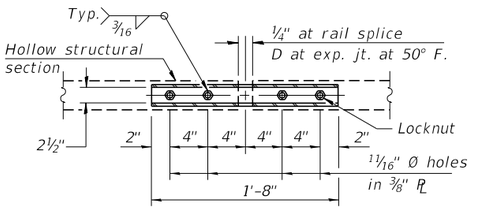
END OF RAIL DETAILS



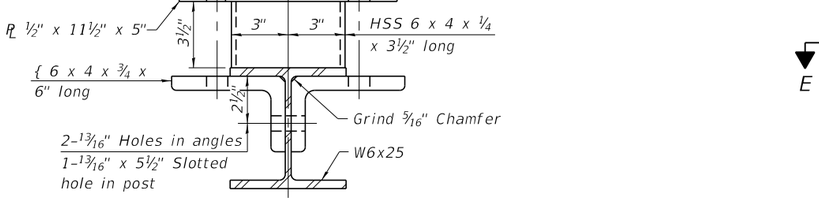
RAIL SPLICE CONNECTION AT EXPANSION JT.



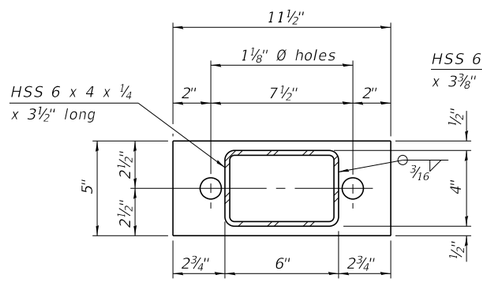
SECTION AT RAIL SPLICE



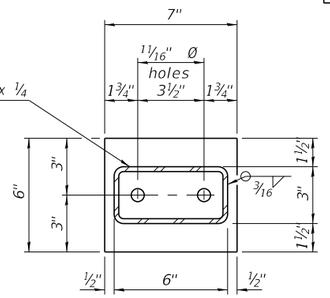
PLAN-BOTT. SPLICE PL TYPICAL



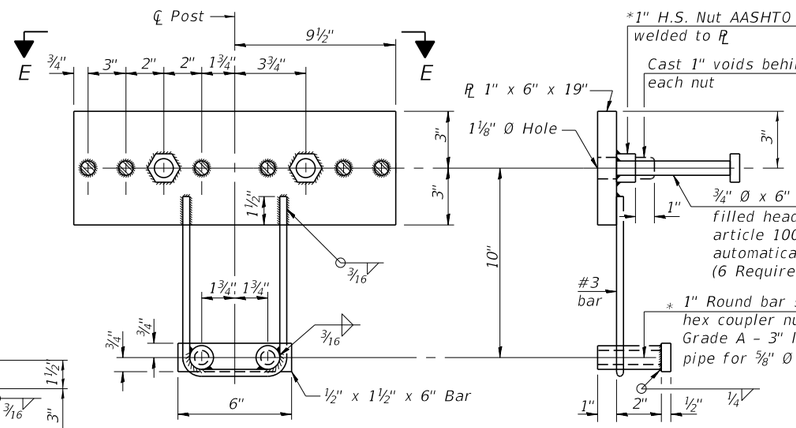
SECTION B-B



PL ½" x 11½" x 5"

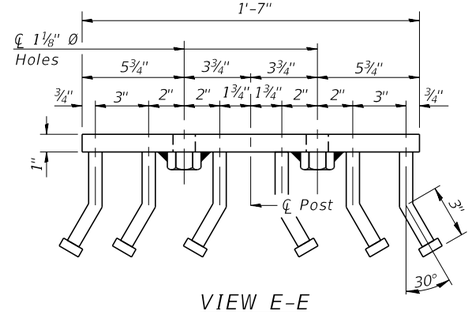


PL ½" x 7" x 6"



ANCHOR DEVICE

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



VIEW E-E

Notes:

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans.

Cost included with Steel Railing, Type SM.

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.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	188

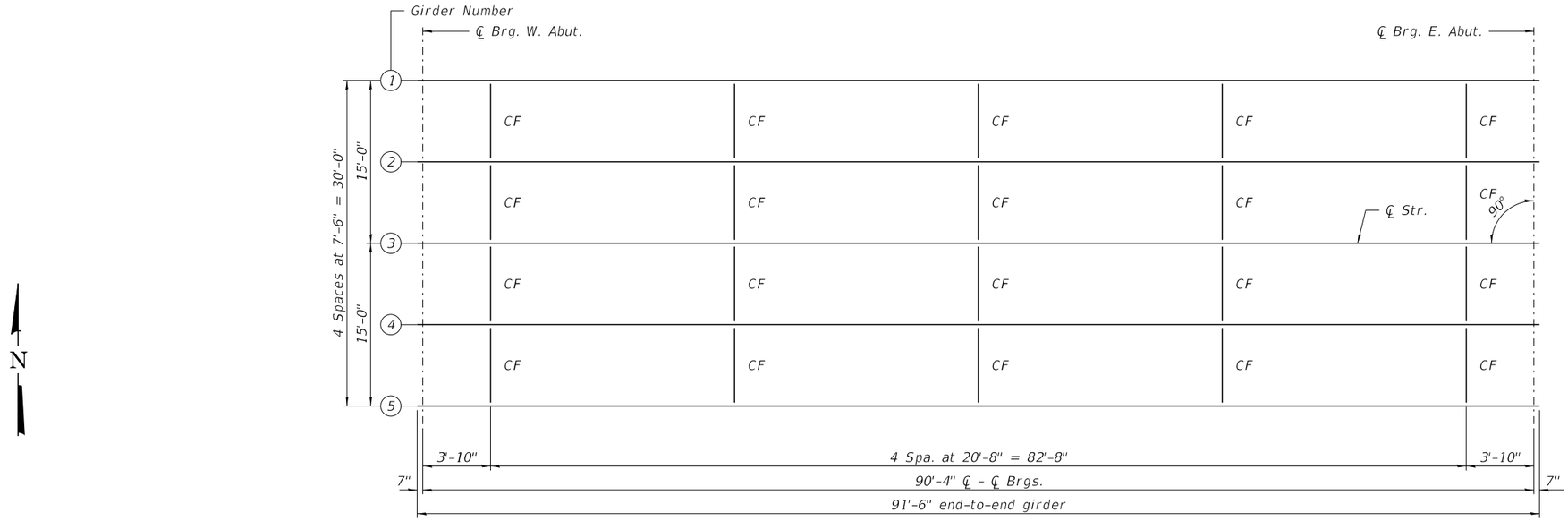
~~R-34HMAWS~~ ~~2-17-2017~~ (6'-3" Maximum Post Spacing)

FILE NAME = 200025-shl-bridge.dgn	USER NAME = mosick	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.M.S.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - A.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

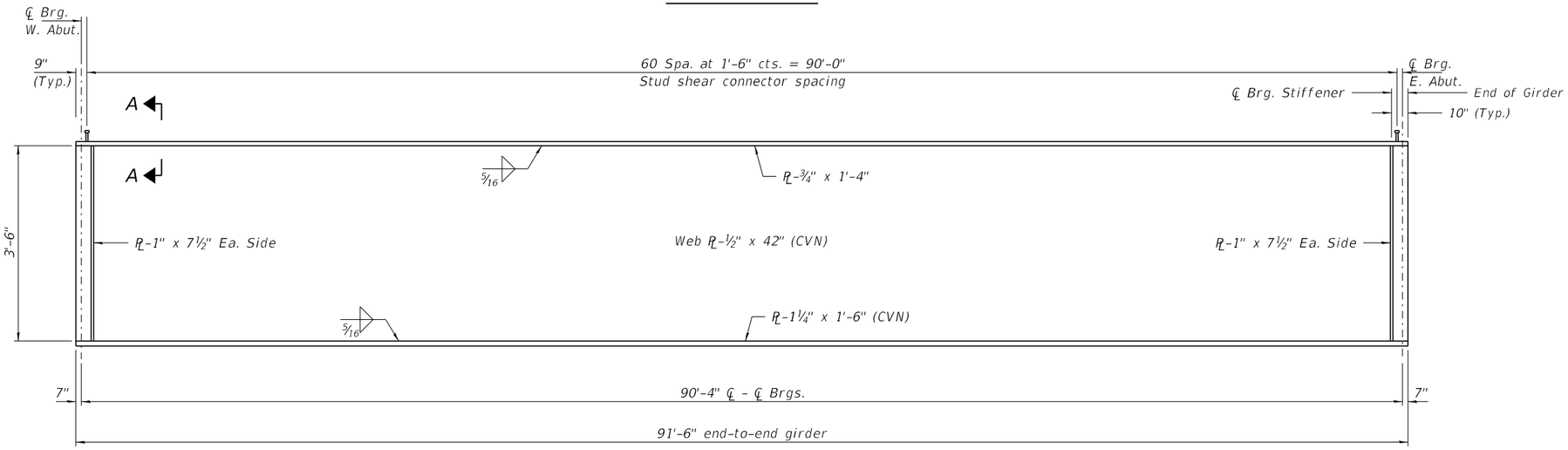
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE SM
STRUCTURE NO. 090-3252
SHEET NO. 11 OF 19 SHEETS

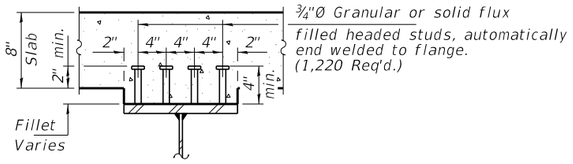
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	17
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			



FRAMING PLAN



GIRDER ELEVATION



SECTION A-A

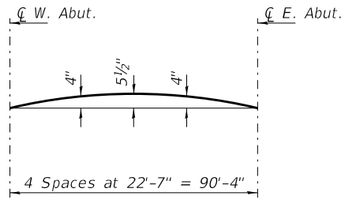
Notes:

All girders and splices, including bearing stiffeners and cross frames shall be AASHTO M270, Grade 50W.

For additional structural steel details see sheets 13 & 14 of 19.

All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.

"CVN" denotes Chary-V-Notch impact energy requirements. zone 2.



CAMBER DIAGRAM

Location	℄ Brg. W. Abut.	℄ Brg. E. Abut.
BEAM 1	511.91	511.91
BEAM 2	512.03	512.03
BEAM 3	512.15	512.15
BEAM 4	512.03	512.03
BEAM 5	511.91	511.91

TOP OF WEB ELEVATIONS

(For fabrication only)

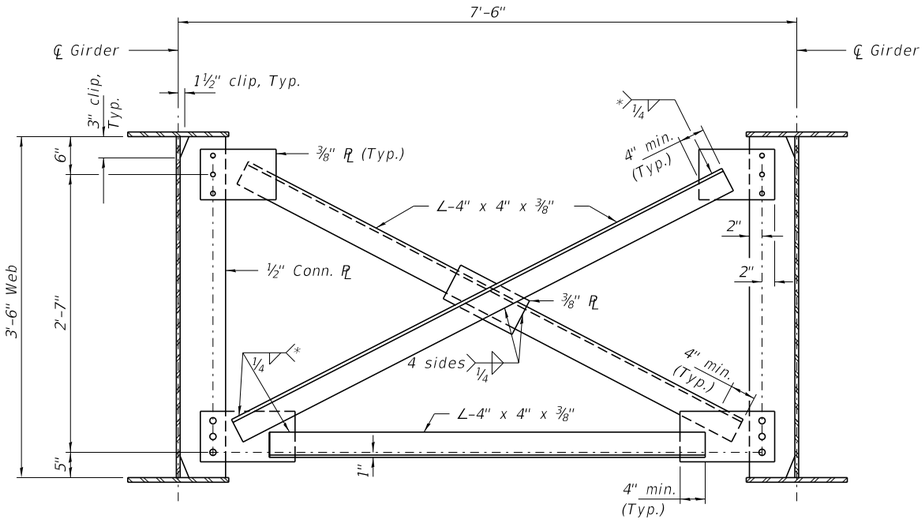
N

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	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.M.S.	REVISED -
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STRUCTURAL STEEL
STRUCTURE NO. 090-3252
SHEET NO. 12 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	18
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

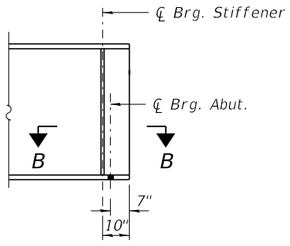


INTERIOR CROSS-FRAME

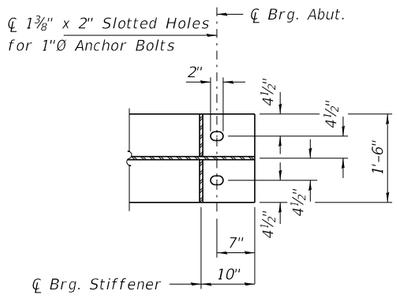
(20-required)

* Fillet weld angles along 3 sides on one face of gusset plate.

Notes:
Bolts for cross frames shall use 15/16" Ø holes for all ¾" Ø bolts.
Two hardened washers required for each set of oversized holes.



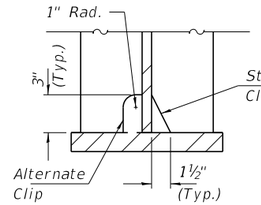
TYP. END OF GIRDER ELEVATION



SECTION B-B

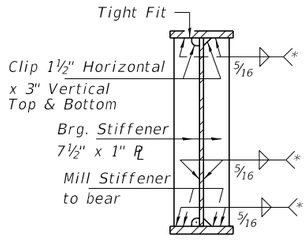
INTERIOR GIRDER MOMENT TABLE		
		0.5 Sp. 1
Is	(in⁴)	18,141
Ic(n)	(in⁴)	51,950
Ic(3n)	(in⁴)	37,637
Ic(cr)	(in⁴)	18,141
Ss	(in³)	700
Sc(n)	(in³)	1,378
Sc(3n)	(in³)	1,277
Sc(cr)	(in³)	577
DC1	(k/')	0.98
MDC1	('k)	1,000
DC2	(k/')	0.04
MDC2	('k)	41
DW	(k/')	0.38
MDW	('k)	383
LLDF	('k)	0.720
M_{L+IM}	('k)	1,759
Mu (Strength I)	('k)	4,954
Ø*f* Mn	('k)	5,225
fs DC1	(ksi)	17.1
fs DC2	(ksi)	0.4
fs DW	(ksi)	3.6
fs (L+IM)	(ksi)	15.3
fs (Service II)	(ksi)	41.0
0.95Rh Fyf	(ksi)	47.5
fs (Total)(Strength I)	(ksi)	–
Ø*f* Fn	(ksi)	–
Vf	(k)	31.7

GIRDER REACTION TABLE			
		Abutment	
		Interior	Exterior
LLDF	(k)	0.779	0.780
OCF	(k)		1.000
RDC1	(k)	44.3	43.3
RDC2	(k)	1.9	2.0
RDW	(k)	17.0	13.1
R_L	(k)	72.9	73.0
R_{IM}	(k)	16.6	16.7
RTotal	(k)	152.7	148.1

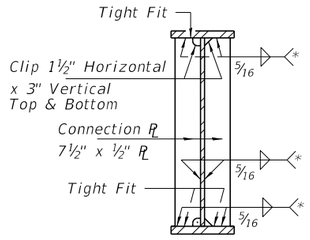


CLIP DETAIL

Use Standard Clip or Alternate Clips in all locations. Do not combine us of different clip type.



SECTION AT ABUTMENT BEARING STIFFENER PL'S



SECTION AT CROSS-FRAME CONNECTION PL'S

Notes:
For additional structural steel details see sheets 12 & 14 of 19.
All splices and diaphragms, including stiffeners and diaphragms shall be AASHTO M270, Grade 50W.

* Terminate ¼" (±⅛") from the end of plate intersects

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{L+IM}

*Ø*f* Mn:* Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{L+IM} / Sc(n) or M_{L+IM} / Sc(cr) as applicable.

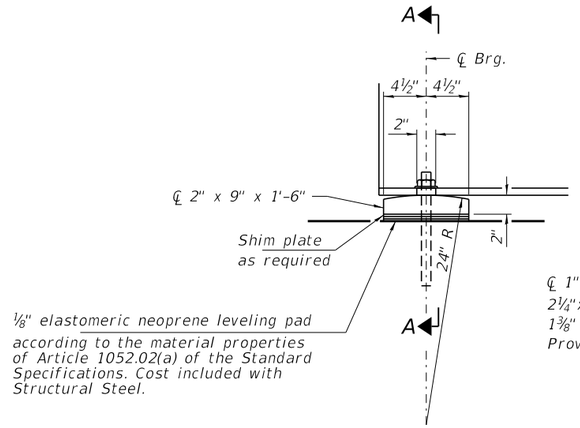
fs (Service II): Sum of stresses as computed below (ksi).
fsDC1 + fsDC2 + fsDW + 1.3 fs(L_{+IM})

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
Sum of stresses as computed below on non-compact section (ksi).
1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(L_{+IM})

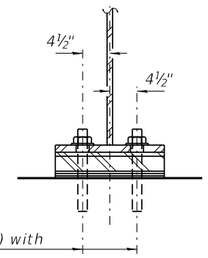
*Ø*f* Fn:* Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
M_L and R_L include the effects of centrifugal force and superelevation.



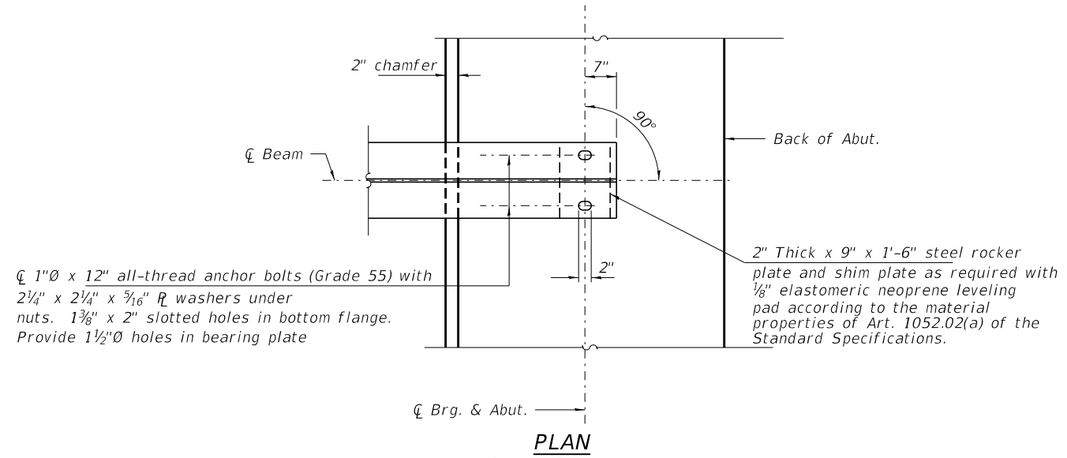
ELEVATION



SECTION A-A

FIXED BEARING AT ABUTMENT

(10 required)



PLAN

(Showing bottom flange of steel beam at abutments)

Notes:

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

All steel plates of the bearing assembly shall be M270 Grade 50W.

BILL OF MATERIAL

Item	Unit	Quantity
Anchor Bolts, 1"	Each	20

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	REVISED -
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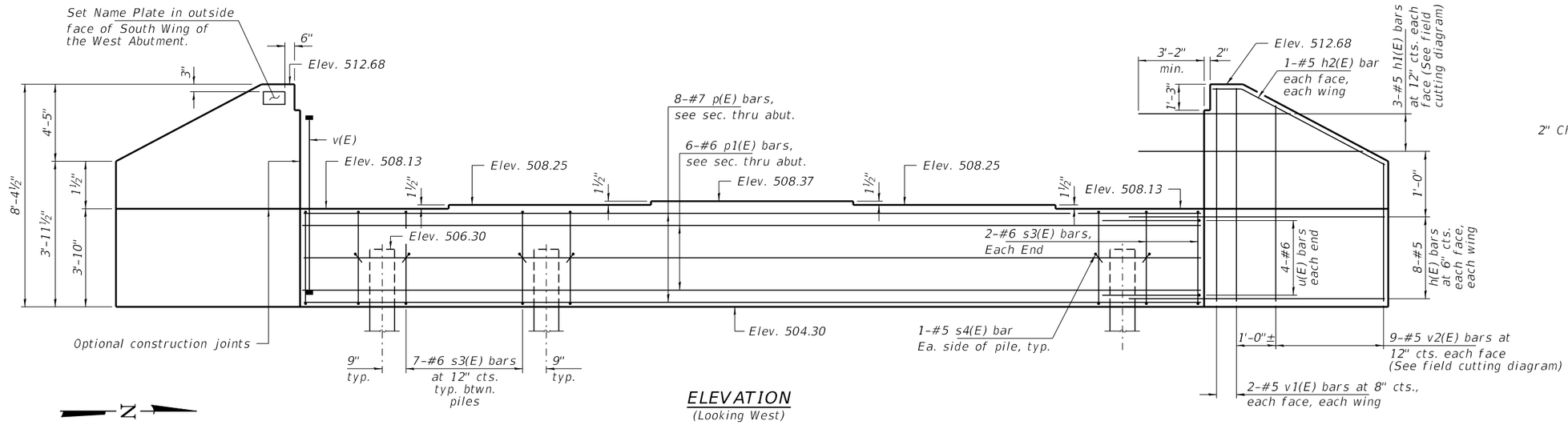
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

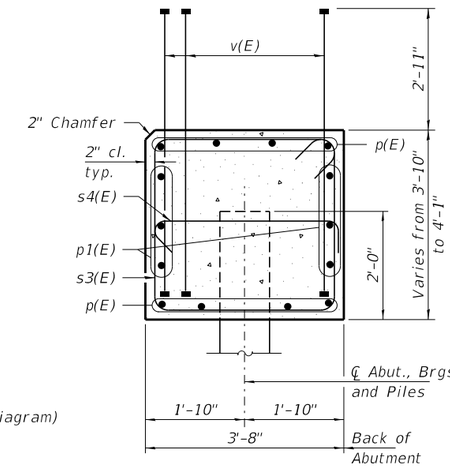
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 090-3252
SHEET NO. 14 OF 19 SHEETS

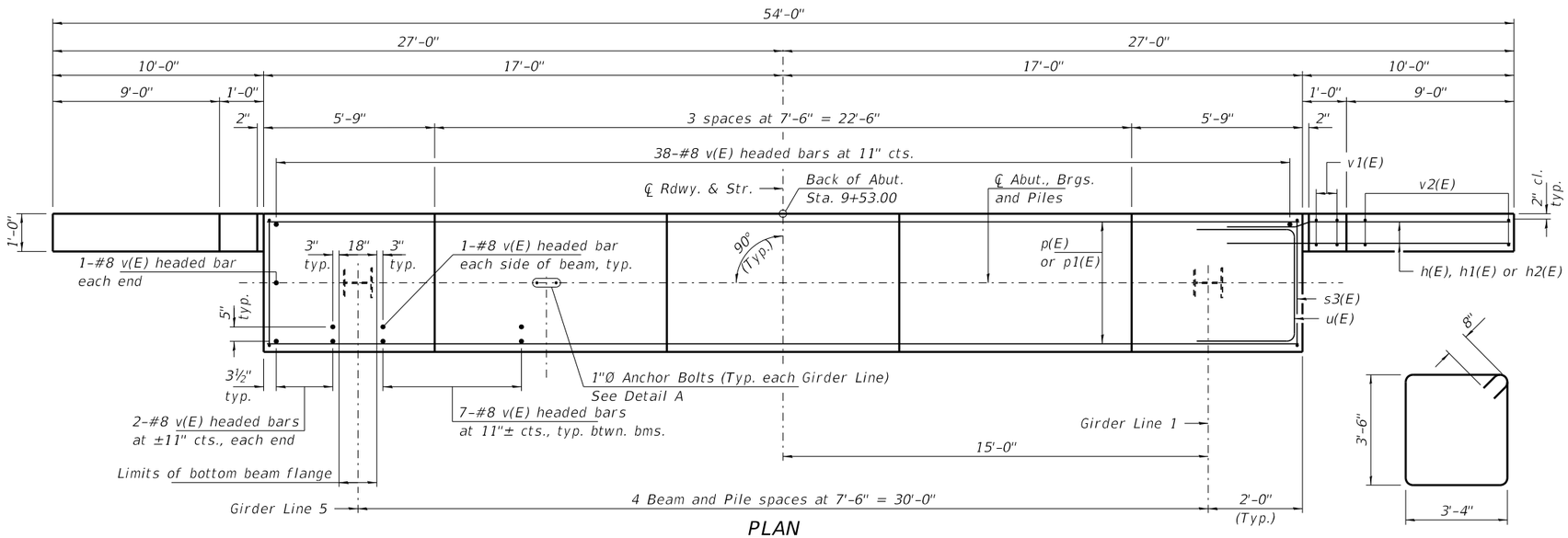
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	20
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
	ILLINOIS	FED. AID PROJECT SAJG(571)		



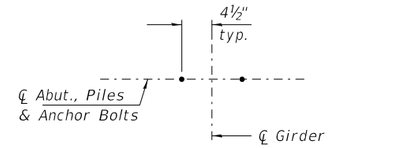
ELEVATION
(Looking West)



SEC. THRU ABUT.



PLAN



DETAIL A

BILL OF MATERIAL - W. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#5	13'-0"	
h1(E)	6	#5	18'-10"	
h2(E)	4	#5	10'-8"	
p(E)	8	#7	33'-8"	
p1(E)	6	#6	33'-8"	
s3(E)	32	#6	15'-0"	
s4(E)	10	#5	4'-4"	
u(E)	8	#6	11'-10"	
v(E)	82	#8	6'-7"	
v1(E)	8	#5	8'-0"	
v2(E)	18	#5	11'-3"	
Structure Excavation			Cu. Yd.	263
Concrete Structures			Cu. Yd.	22.9
Protective Coat			Sq. Yd.	10
Reinf. Bars, Epoxy Coated			Pound	4,080
Furnishing Steel Piles HP12x53			Foot	200
Driving Piles			Foot	200
Test Pile Steel HP12x53			Each	1
Name Plates			Each	1

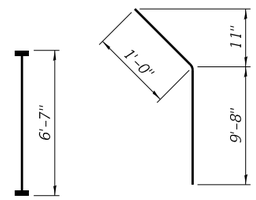
Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 17 of 19.

PILE DATA

Type: _____ Steel HP12x53
Nominal Required Bearing: _____ 418 Kips/Pile
Factored Resistance Available: _____ 230 Kips/Pile
Est. Length: _____ 50 Ft/Pile
No. Production Piles: _____ 4
No. Test Piles: _____ 1

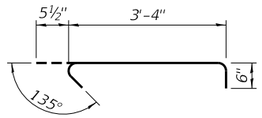
Notes: One test pile shall be driven in a permanent location at the West Abutment.

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

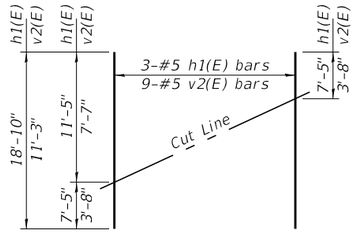


BAR v(E)
(Headed)

BAR h2(E)



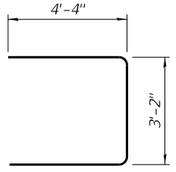
BAR s4(E)



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

BAR s3(E)



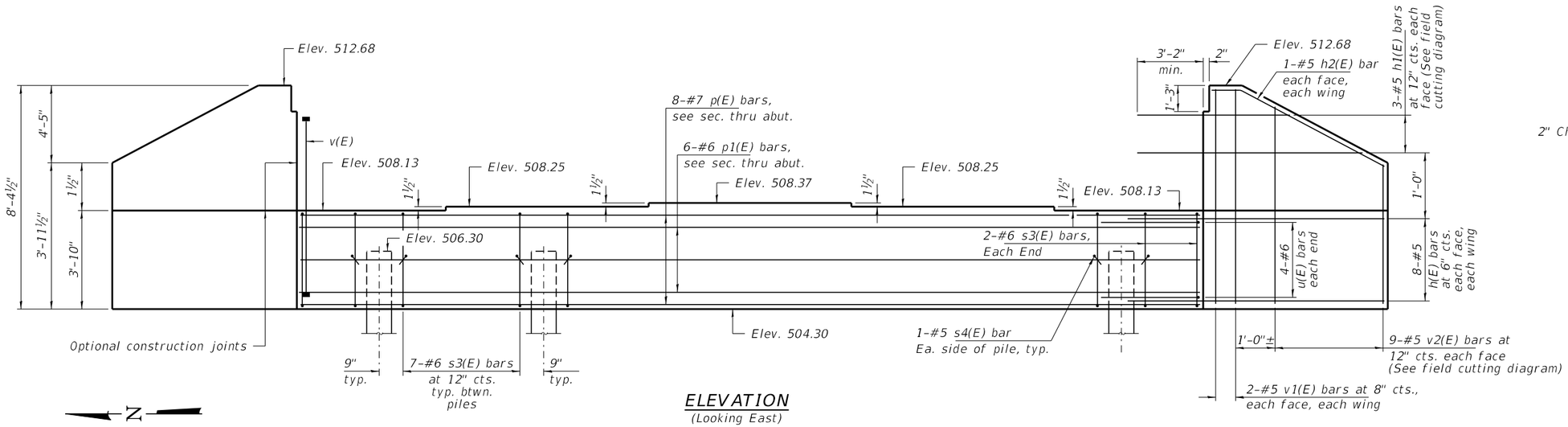
BAR u(E)

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.M.S.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - A.C.	REVISED -	
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -	

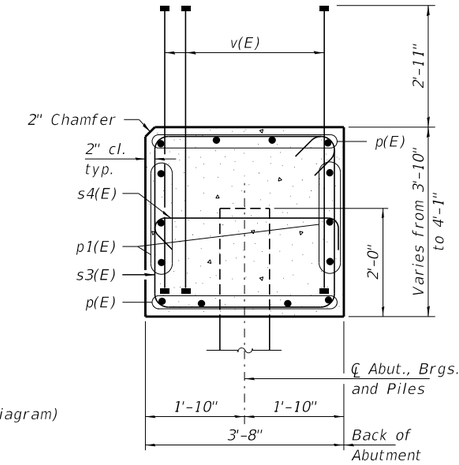
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

WEST ABUTMENT
STRUCTURE NO. 090-3252
SHEET NO. 15 OF 19 SHEETS

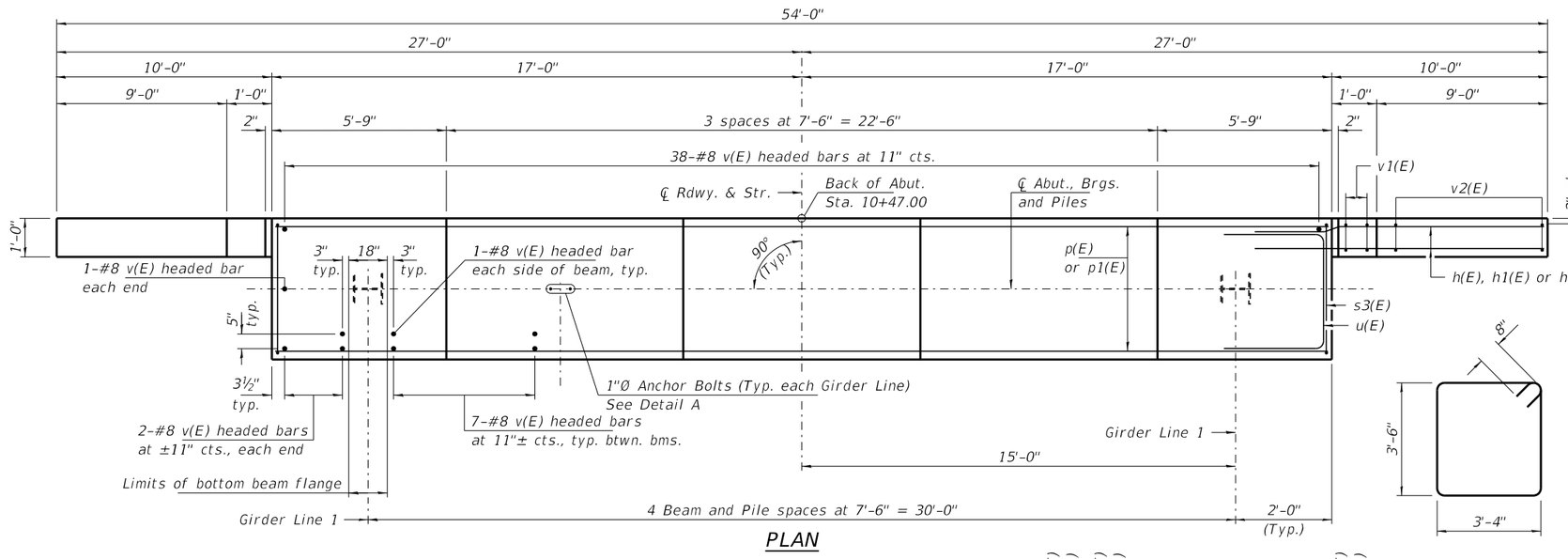
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	21
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			



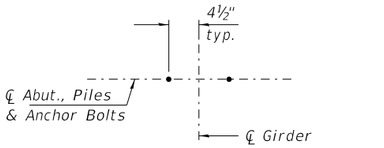
ELEVATION
(Looking East)



SEC. THRU ABUT.



PLAN



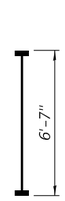
DETAIL A

BILL OF MATERIAL - E. ABUT.

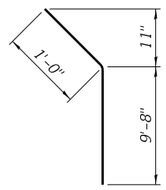
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#5	13'-0"	
h1(E)	6	#5	18'-10"	
h2(E)	4	#5	10'-8"	
p(E)	8	#7	33'-8"	
p1(E)	6	#6	33'-8"	
s3(E)	32	#6	15'-0"	
s4(E)	10	#5	4'-4"	
u(E)	8	#6	11'-10"	
v(E)	82	#8	6'-7"	
v1(E)	8	#5	8'-0"	
v2(E)	18	#5	11'-3"	
Structure Excavation			Cu. Yd.	267
Concrete Structures			Cu. Yd.	22.9
Protective Coat			Sq. Yd.	10
Reinf. Bars, Epoxy Coated			Pound	4,080
Furnishing Steel Piles HP12x53			Foot	250
Driving Piles			Foot	250

PILE DATA

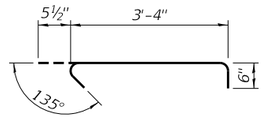
Type: _____ Steel HP12x53
Nominal Required Bearing: _____ 418 Kips/Pile
Factored Resistance Available: _____ 230 Kips/Pile
Est. Length: _____ 50 Ft/Pile
No. Production Piles: _____ 5
No. Test Piles: _____ 0



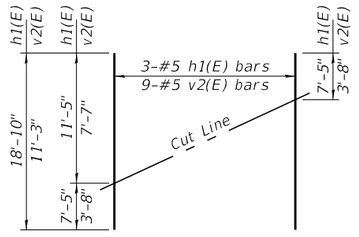
BAR v(E)
(Headed)



BAR h2(E)

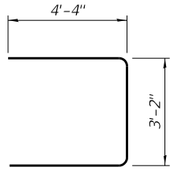


BAR s4(E)



FIELD CUTTING DIAGRAM
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

BAR s3(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 17 of 19.

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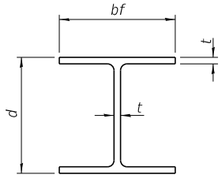
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S.	REVISED -
	PLOT SCALE =	DRAWN - A.C.	REVISED -
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

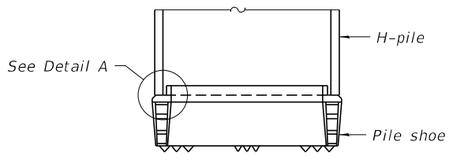
EAST ABUTMENT
STRUCTURE NO. 090-3252
SHEET NO. 16 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	22
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

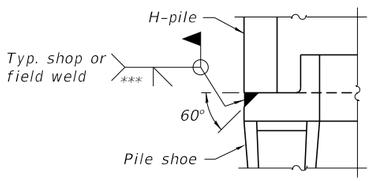


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	13/16"	30"
x102	14"	14¾"	1 1/16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	1 1/16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7/16"	24"
HP 10x57	10"	10¼"	9/16"	24"
x42	9¾"	10⅛"	7/16"	24"
HP 8x36	8"	8⅛"	7/16"	18"



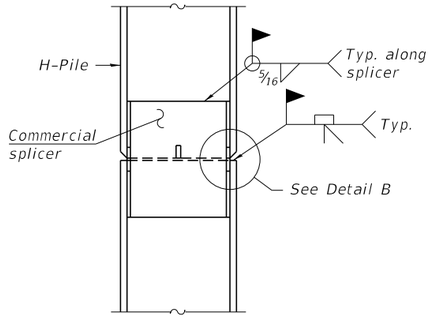
ELEVATION



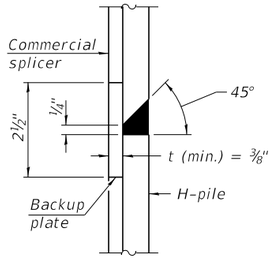
DETAIL A

SHOE ATTACHMENT

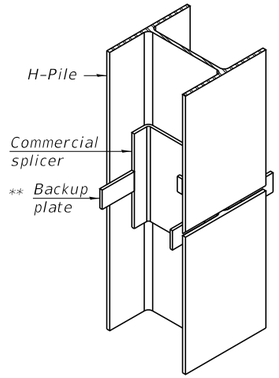
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

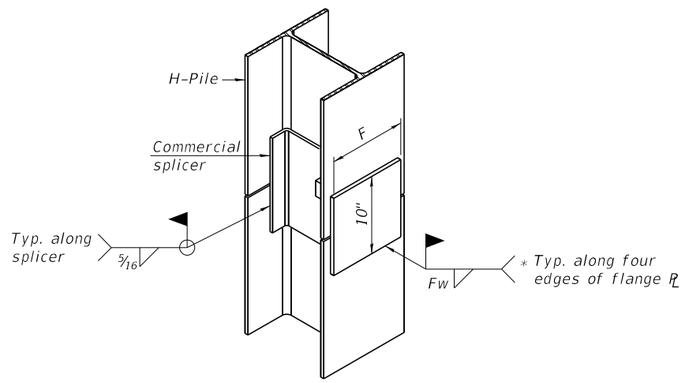


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



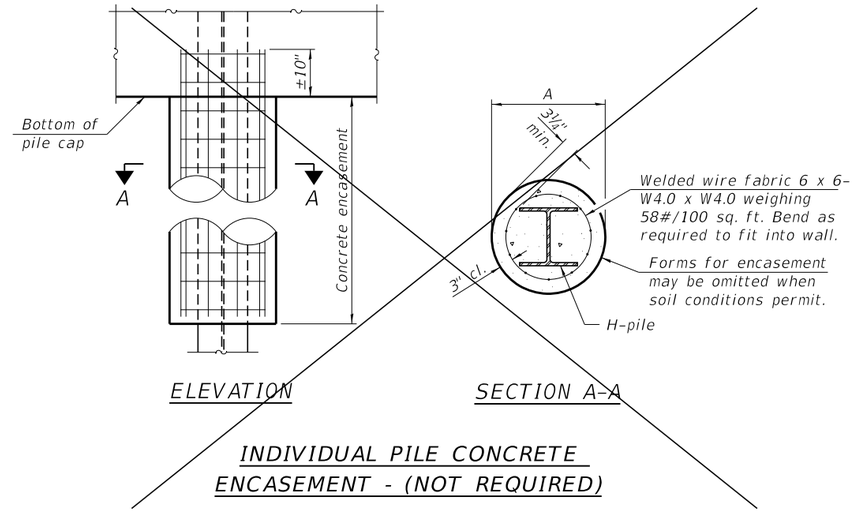
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼" from end of web and/or each flange.

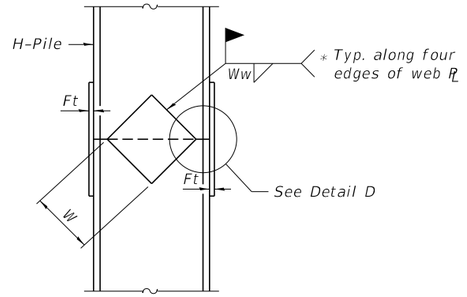
** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

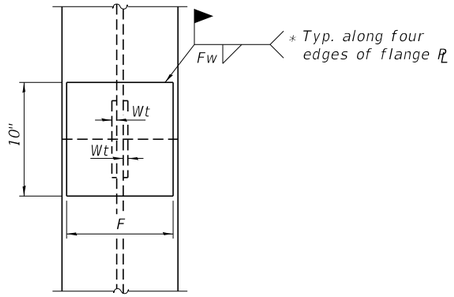


ELEVATION SECTION A-A

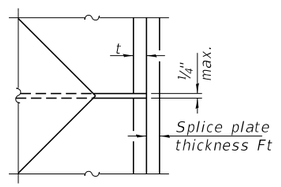
INDIVIDUAL PILE CONCRETE ENCASEMENT - (NOT REQUIRED)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	1 1/16"	7¾"	⅝"	½"
x73	12½"	⅝"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	1 1/16"	6½"	⅝"	½"
x74	10"	⅞"	1 1/16"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	9/16"	5¼"	½"	⅜"
x42	8"	⅝"	9/16"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	7/16"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

F-HP 1-1-2020

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS TAZEWELL COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 090-3252
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.M.S.	REVISED -		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - A.C.	REVISED -		SHEET NO. 17 OF 19 SHEETS
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	23
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
	ILLINOIS FED. AID PROJECT SAJG(571)			

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Date 4/21/20

ROUTE TR 141 DESCRIPTION Bridge Replacement

SECT. 16-02126-00-BR STRUCT. NO. 090-3101 DRILLED BY B. Williamson

COUNTY Tazewell LOCATION Cincinnati Township S. 5/6 , TWP. 24N , RNG. 5W

Boring No. B-1 West Abutment
Station
Offset ft
Surface Elev. 513.80 ft

Surface Water Elev.
Groundwater Elev.:
when drilling 485.8
at Completion 475.8
after Hrs.

	DEPTH	BLOWS	Qu tsf	W %
Bituminous Pavement 513.40				
Loose to very loose brown fine to coarse SAND		4 4 5		5
	-5	3 3 3		8
		2 1 1		7
505.80				
Medium stiff dark brown-brown LOAM		2 2 2	B 0.62	18
	-10			
502.80				
Very loose brown SILTY LOAM		2 1 1		29
500.80				
Medium stiff to stiff brown-gray SILTY CLAY LOAM		1 1 2	B 0.74	28
	-15			
		0 0 2	B 0.82	28
		0 1 1	B 0.74	30
	-20			
		0 2 2	B 1.15	29
		2 2 2	B 1.48	27
488.80	-25			

	DEPTH	BLOWS	Qu tsf	W %
Very soft brown-gray SILTY CLAY LOAM		3 3 6	B 0.29	40
485.80				
Loose brown fine to medium SAND		3 4 5		
	-30			
480.80				
Medium dense to dense brown fine to medium SAND		6 11 14		
	-35			
		8 15 15		
	-40			
470.80				
Medium stiff gray SILTY CLAY LOAM		2 2 3	B 0.74	30
	-45			
465.80				
Very soft gray SILTY CLAY LOAM		2 1 1	B 0.29	37
	-50			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Date 4/21/20

STRUCTURE NO. 090-3101
ROUTE TR 141
SECTION 16-02126-00-BR
COUNTY Tazewell

Boring No. B-1 West Abutment
Station
Offset ft
Elevation 463.80 ft

	DEPTH	BLOWS	Qu tsf	W %
Very soft gray SILTY CLAY LOAM				
460.80				
Very dense black COAL		50/4"		24
	-55			
457.80				
Gray WEATHERED SHALE		24 50/2"		14
453.80	-60			
End of Boring at 60'				
	-65			
	-70			
	-75			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

BORING-1

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS TAZEWELL COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 090-3252	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.M.S.	REVISED -			141	16-02126-00-BR	TAZEWELL	34	24
	PLOT SCALE =	DRAWN - A.C.	REVISED -			CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -		SHEET NO. 18 OF 19 SHEETS			ILLINOIS	FED. AID PROJECT SAJG(571)	

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Date 4/21/20

ROUTE TR 141 DESCRIPTION Bridge Replacement

SECT. 16-02126-00-BR STRUCT. NO. 090-3101 DRILLED BY B. Williamson

COUNTY Tazewell LOCATION Cincinnati Township S. 5/6 , TWP. 24N , RNG. 5W

Boring No. B-2 East Abutment
Station
Offset ft
Surface Elev. 513.70 ft

Surface Water Elev.
Groundwater Elev.:
when drilling 487.7
at Completion 483.7
after Hrs.

	DEPTH	BLOWS	Qu tsf	W %
Bituminous Pavement 513.20				
Aggregate Base 512.70				
Very loose brown-dark brown fine to coarse SAND		2 2 2		6
510.70				
Very loose dark brown SILTY LOAM		4 2 2		26
	-5			
		0 0 2		25
505.70				
Very loose brown-dark brown SANDY LOAM		1 2 1		18
	-10			
502.70				
Stiff brown SILTY CLAY LOAM		1 2 3	B 1.27	26
		1 3 4	B 1.07	28
	-15			
497.70				
Medium stiff brown-gray SILTY CLAY LOAM		0 1 2	B 0.70	29
		0 1 2	B 0.78	27
	-20			
		0 1 3	B 0.78	33
		2 2 3	B 0.98	31
488.70	-25			

	DEPTH	BLOWS	Qu tsf	W %
Loose to medium dense brown fine to medium SAND		2 2 3		
		2 3 4		
	-30			
	-35	4 5 7		
472.70				
Soft to very soft gray SILTY CLAY LOAM		4 10 12		
	-40			
	-45	3 3 3	P 0.5	28
	-50	0 1 1	P 0.25	35
463.70				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Date 4/21/20

STRUCTURE NO. 090-3101
ROUTE TR 141
SECTION 16-02126-00-BR
COUNTY Tazewell

Boring No. B-2 East Abutment
Station
Offset ft
Elevation 463.70 ft

	DEPTH	BLOWS	Qu tsf	W %
Very soft gray SILTY CLAY LOAM				
461.70				
Gray WEATHERED SHALE				
		50/3"		7
	-55			
		14 38 50/3"		14
453.70	-60			
End of Boring at 60'				
	-65			
	-70			
	-75			

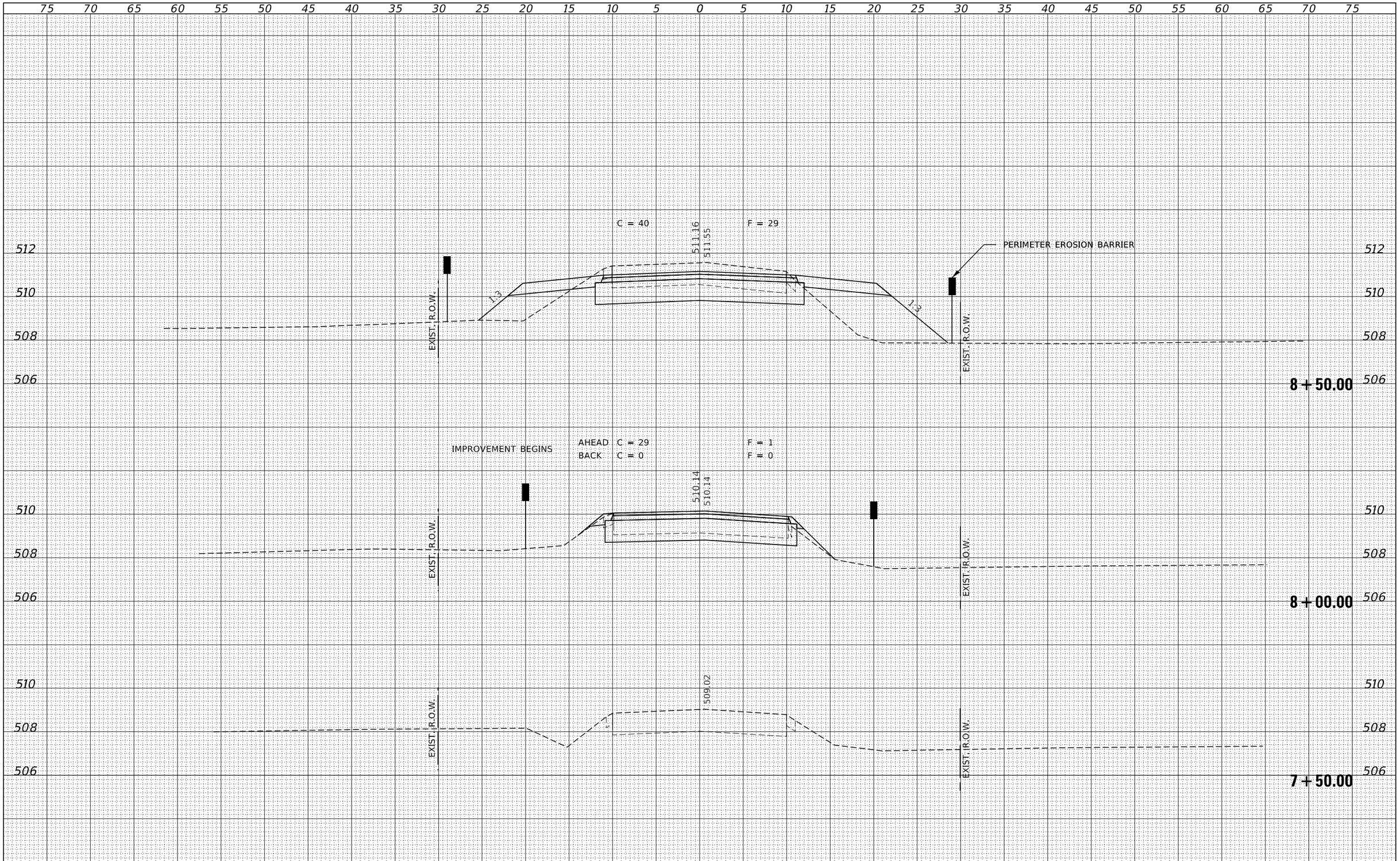
SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

BORING-2

FILE NAME = 200025-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS TAZEWELL COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 090-3252	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.M.S.	REVISED -			141	16-02126-00-BR	TAZEWELL	34	25
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP: 184.000959	PLOT SCALE =	DRAWN - A.C.	REVISED -			CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
	PLOT DATE = 8/20/2021	CHECKED - S.M.S.	REVISED -		SHEET NO. 19 OF 19 SHEETS			ILLINOIS	FED. AID PROJECT SAJG(571)	

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

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



FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

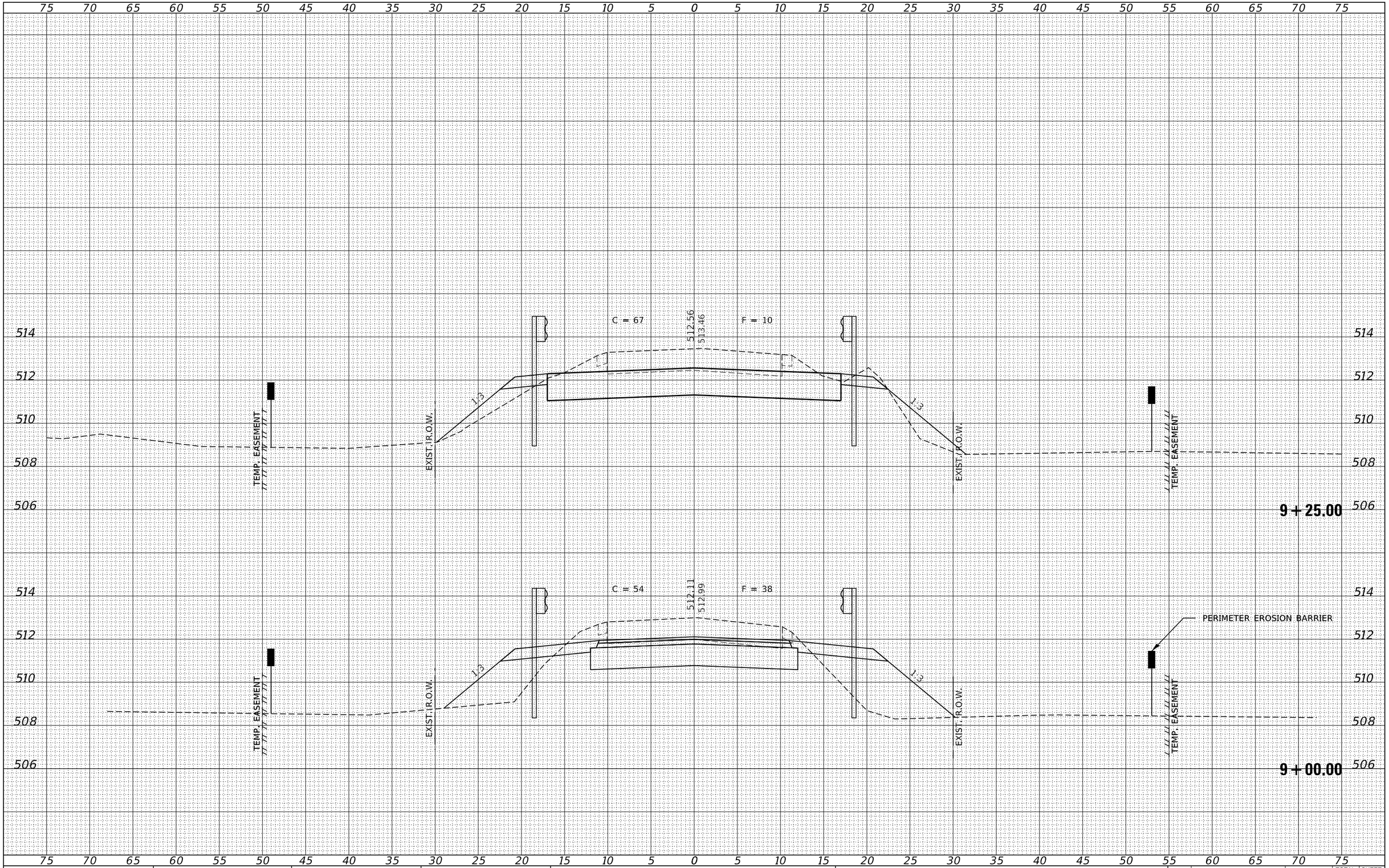
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 1 OF 9 SHEETS | STA. 7+50.00 TO STA. 8+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	26
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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



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

FILE NAME = 200025-shl-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	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
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	27
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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

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

9 + 53.00 BACK WEST ABUT.

AHEAD C = 0 F = 0

BACK C = 104 F = 0

C = 104 F = 0

512.90

513.81

TEMP. EASEMENT

EXIST. R.O.W.

EXIST. R.O.W.

PERIMETER EROSION BARRIER

TEMP. EASEMENT

514 512 510 508 506 504 502

9 + 50.00

FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
		DRAWN - T.W.K.	REVISED -
PLOT SCALE = $SCALE$		CHECKED - J.W.F.	REVISED -
PLOT DATE = 8/20/2021		DATE - 08/11/2021	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
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 3 OF 9 SHEETS | STA. 9+50.00 | TO STA. 9+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	28
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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

BY	DATE

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

BY	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

514 512 510 508 506 504 502 500 498 496 494 492

TEMP. EASEMENT

EXIST. R.O.W.

503.92

EXIST. R.O.W.

TEMP. EASEMENT

CHANNEL EXCAVATION

STONE RIPRAP, CLASS A5

9 + 75.00

FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoskk	DESIGNED - S.A.A.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

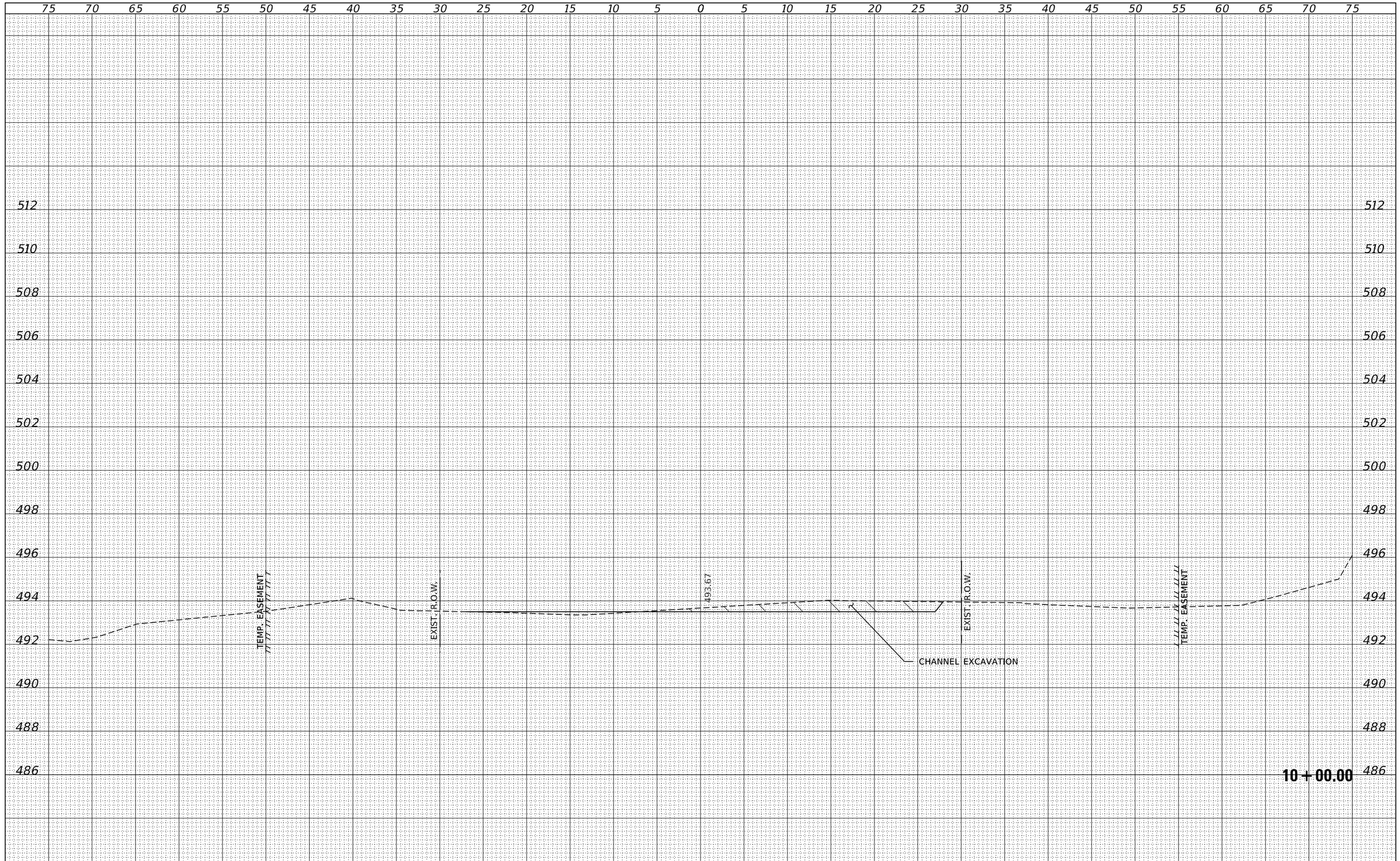
STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 4 OF 9 SHEETS | STA. 9+75.00 | TO STA. 9+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	29
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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

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



FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	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
TAZEWELL COUNTY HIGHWAY DEPARTMENT

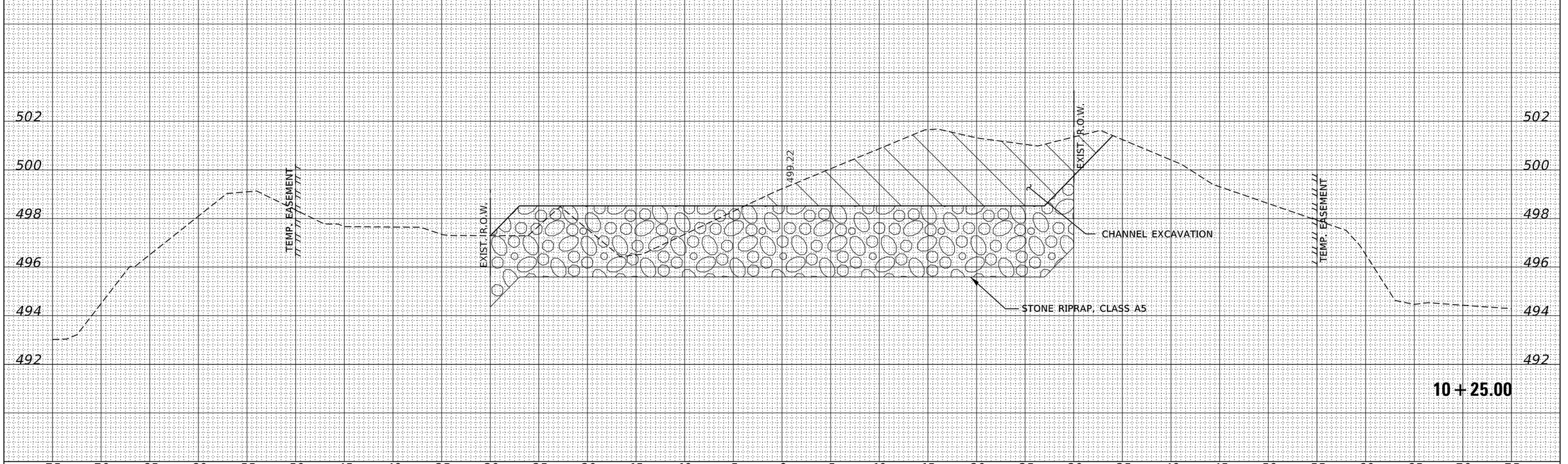
STATION CROSS SECTIONS

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	30
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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

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



FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

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

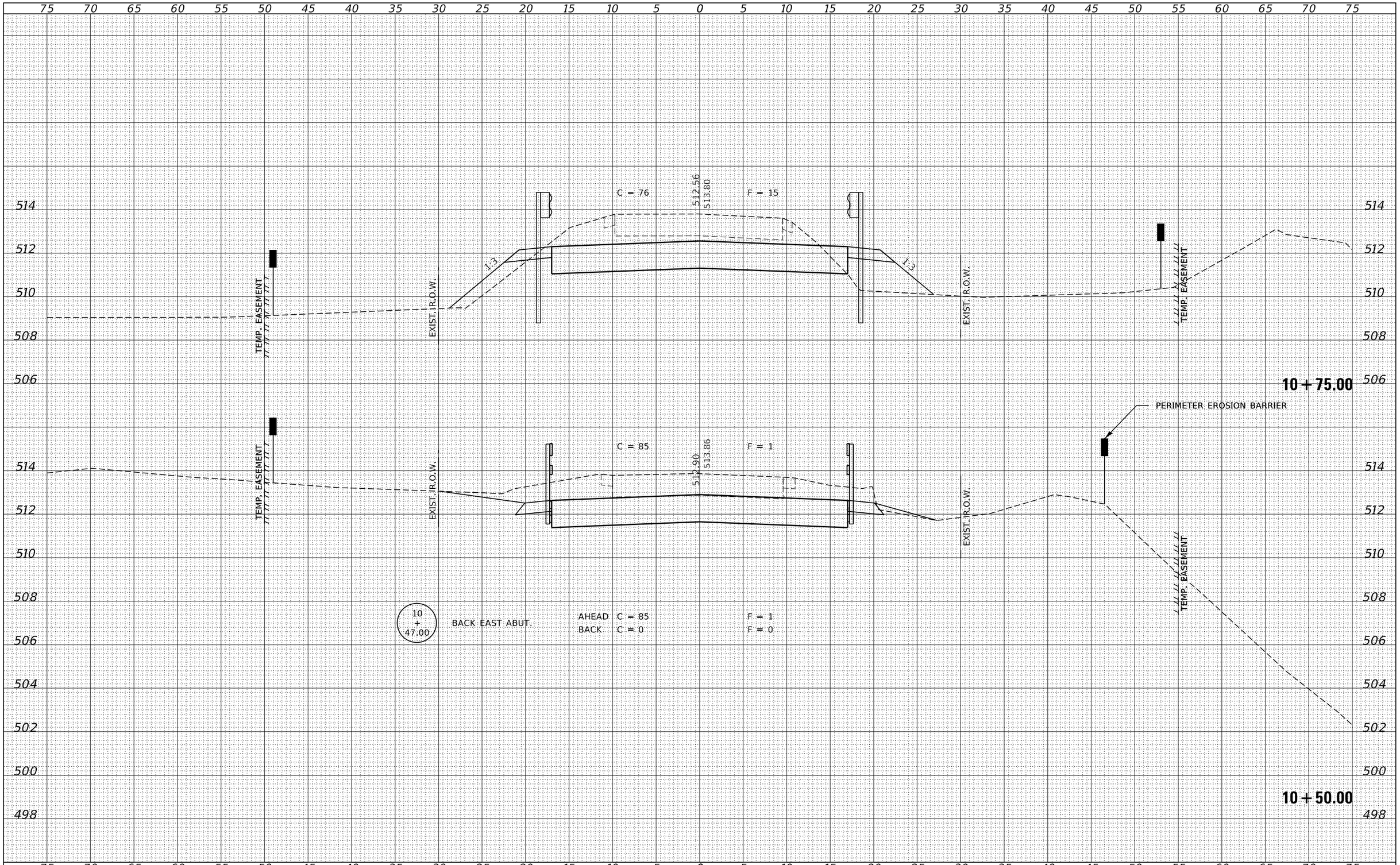
STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 6 OF 9 SHEETS | STA. 10+25.00 TO STA. 10+25.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	31
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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



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

FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

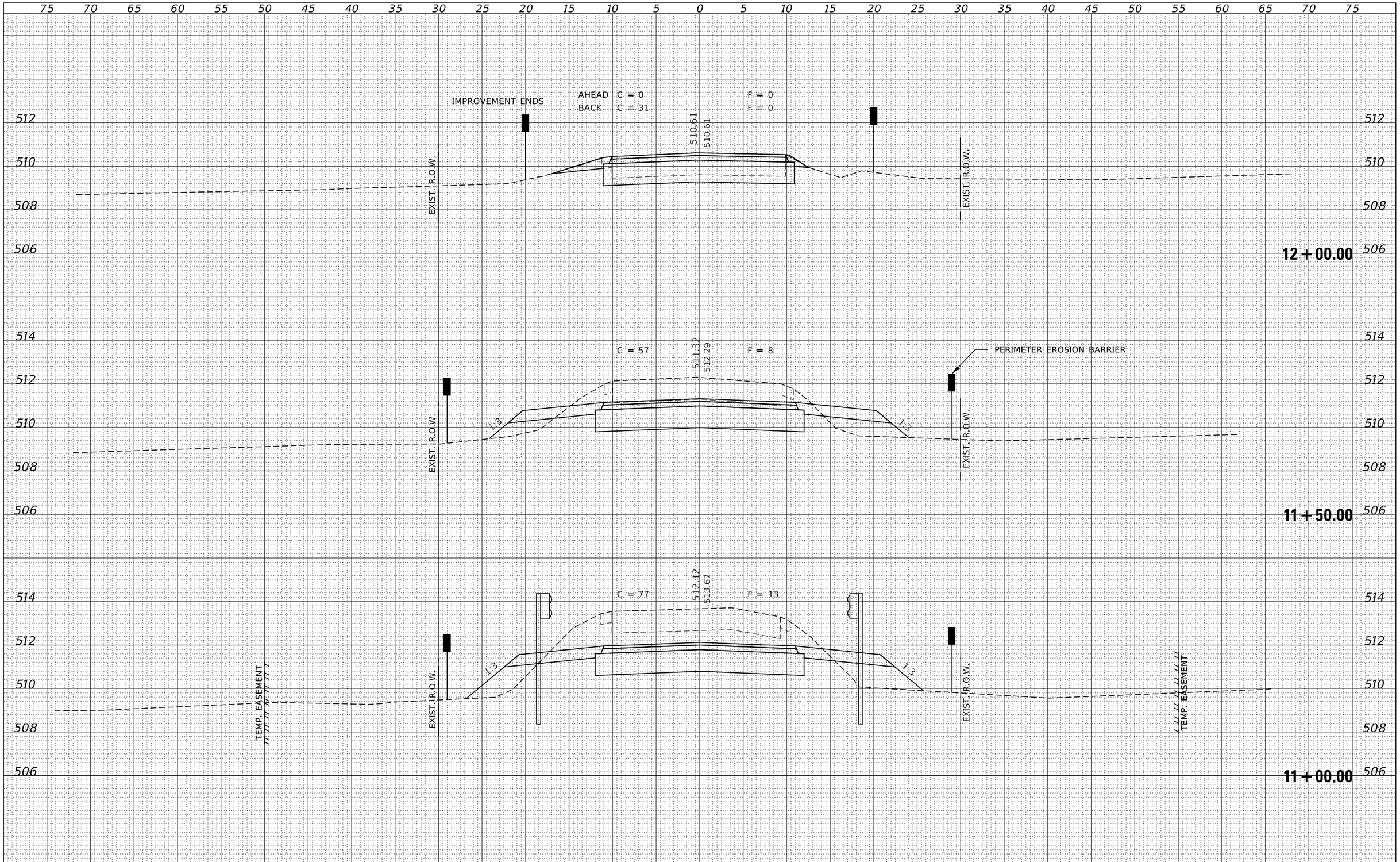
STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 7 OF 9 SHEETS | STA. 10+50.00 TO STA. 10+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	32
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
	ILLINOIS	FED. AID PROJECT SAJG(571)		

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

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



FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 8/20/2021	DATE - 08/11/2021	REVISED -

STATE OF ILLINOIS
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 8 OF 9 SHEETS | STA. 11+00.00 TO STA. 12+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	33
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			

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

NO.	BY	DATE

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

NO.	BY	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

510
508
506

EXIST. R.O.W.

510.19

EXIST. R.O.W.

12 + 50.00

FILE NAME = 200025-sht-xssheets.dgn	USER NAME = rhoslck	DESIGNED - S.A.A.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.W.F.	REVISED -
	PLOT DATE = 8/20/2021	DATE - 08/11/2021	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
TAZEWELL COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 9 OF 9 SHEETS | STA. 12+50.00 TO STA. 12+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	16-02126-00-BR	TAZEWELL	34	34
CINCINNATI ROAD DISTRICT		CONTRACT NO. 89721		
ILLINOIS	FED. AID PROJECT SAJG(571)			