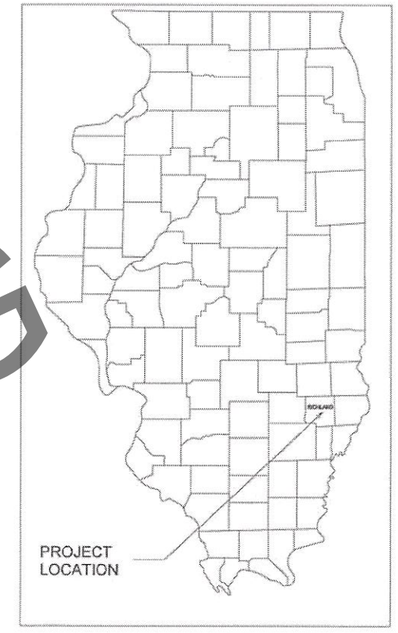
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	1
BONPAS ROAD DISTRICT		ILLINOIS		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
TOWNSHIP BRIDGE PROGRAM PROJECT

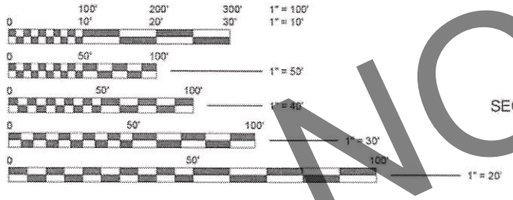
SECTION 23-01131-00-BR
RICHLAND COUNTY
BONPAS ROAD DISTRICT
TR 293

NOT FOR BIDDING

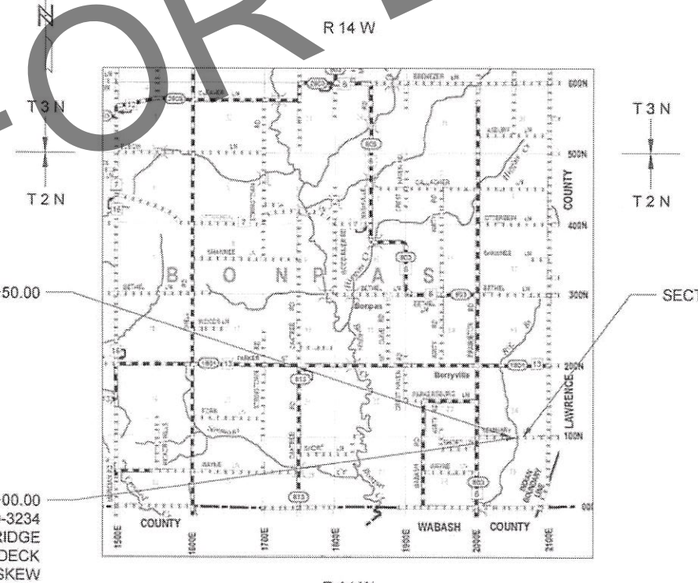


INDEX OF SHEETS

SHEET	ITEM
1	COVER SHEET
2	SUMMARY OF QUANTITIES, TYPICAL SECTIONS, AND DETAILS
3	SCHEDULE OF QUANTITIES
4	PLAN AND PROFILE
5	BRIDGE SHOULDER WIDENING PLAN
6	GENERAL PLAN AND ELEVATION
7	PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
8	PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
9	STEEL RAILING, TYPE S-1 DETAILS
10	ABUTMENT DETAILS
11	HP PILE DETAILS
12	BORING LOGS
13-17	CROSS SECTIONS OF ROADWAY
HIGHWAY STANDARDS:	
STANDARD 000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
STANDARD 280001-07	TEMPORARY EROSION CONTROL SYSTEMS
STANDARD 515001-04	NAME PLATE FOR BRIDGES
STANDARD 701901-11	TRAFFIC CONTROL DEVICES
STANDARD 725001-01	OBJECT AND TERMINAL MARKERS
STANDARD BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



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



STA. 5+00.00
PROPOSED STRUCTURE NUMBER 080-3234
SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE
56'-10" SPAN, 27" DEPTH BEAMS, 24.0' WIDE DECK
NO SKEW
NO EXISTING STRUCTURE NUMBER

J.U.L.I.E.
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123 OR 811
WEBSITE: https://www.illinois1call.com/

FUNCTIONAL CLASSIFICATION - LOCAL ROAD
ADT = 50
DESIGN SPEED = 30 MPH

GROSS LENGTH = NET LENGTH SECTION 23-01131-00-BR = 650.00 FEET = 0.123 MILES

BRANDON M. BRIDGES
062.064453
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
6/19/2026

LICENSE EXPIRES 11/30/2027

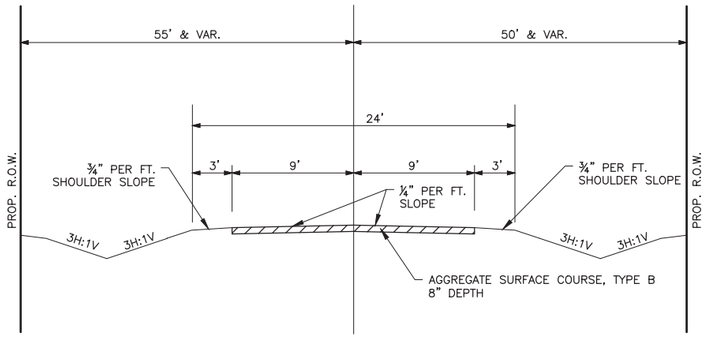
CHARLESTON ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE
P.O. BOX 397
OLNEY, ILLINOIS 62450
(618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003512

APPROVED June 22, 2026
Danny J. Colwell, P.E.
COUNTY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

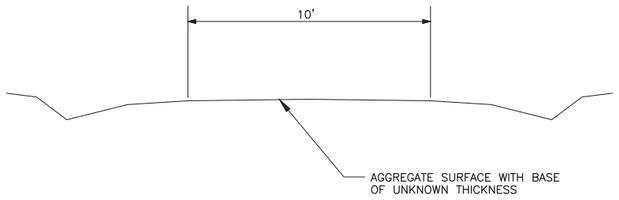
PASSED 07/02/26
DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS

Releasing For Bid Based on Limited Review 07/02/26
REGION FOUR ENGINEER



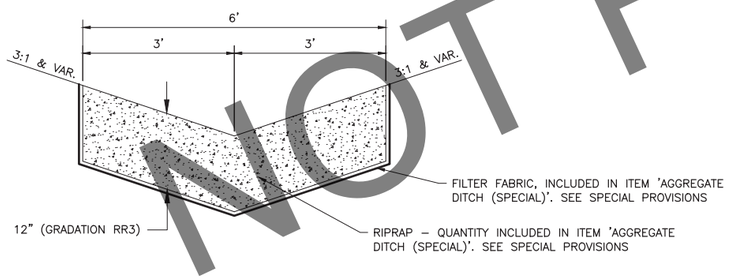
TYPICAL SECTION

PROPOSED
STA. 1+50.00 TO 8+00.00
(LOOKING EAST)



TYPICAL SECTION

EXISTING



AGGREGATE DITCH (SPECIAL) DETAIL

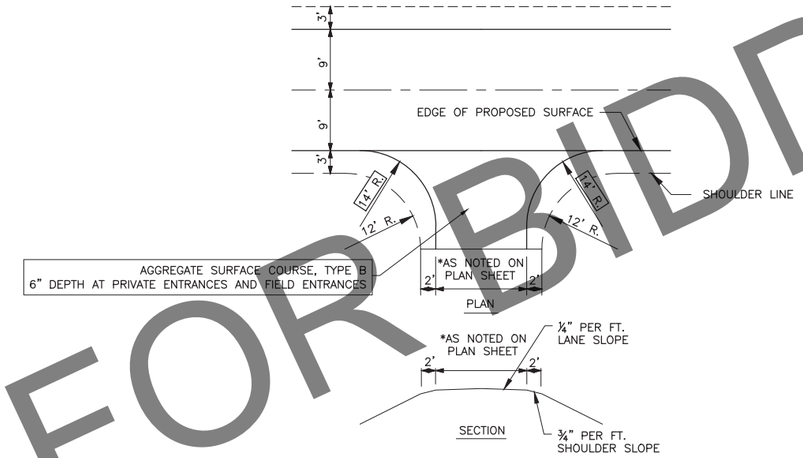
LT. STA. 4+00 TO 4+77
LT. STA. 5+30 TO 6+00

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT JULIE (1–800–892–0123) BEFORE COMMENCING WORK. UNDERGROUND UTILITIES SHOWN ON THE PLAN SHEETS WERE OBTAINED FROM LOCAL UTILITY COMPANIES AND OTHER AVAILABLE SOURCES. LOCATIONS, SIZE, MATERIAL, DESCRIPTION, OR TYPE OF EXISTING UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT, OR COMPLETE AND SHALL BE CONSIDERED APPROXIMATE. ABOVE GROUND UTILITY LOCATIONS ARE SHOWN AS FOUND DURING THE INITIAL SURVEY FIELD WORK AND MAY NOT REFLECT CURRENT CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND COORDINATION WITH UTILITY COMPANIES.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

AGGREGATE DITCH (SPECIAL)	1.75 TONS/CU YD
AGGREGATE SURFACE COURSE, TYPE B	2.0 TONS/CU YD



ENTRANCE DETAIL

RT. STA. 2+64 – FE
LT. STA. 7+00 – FE
RT. STA. 7+00 – FE

NOTES:
*SEE PLAN AND PROFILE SHEET FOR REQUIRED DIMENSION

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
1	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.80
2	TREE REMOVAL, ACRES	ACRE	0.40
3	AGGREGATE DITCH (SPECIAL)	TON	75
4	EARTH EXCAVATION	CU YD	1,050
5	CHANNEL EXCAVATION	CU YD	910
6	FURNISHED EXCAVATION	CU YD	180
7	STONE DUMPED RIPRAP, CLASS A4	TON	650
8	POROUS GRANULAR EMBANKMENT (SPECIAL)	TON	100
9	AGGREGATE SURFACE COURSE, TYPE B	TON	700
10	REMOVAL OF EXISTING STRUCTURES	EACH	1
11	PIPE CULVERT REMOVAL	FOOT	25
12	CONCRETE STRUCTURES	CU YD	29.2
13	CONCRETE ENCASEMENT	CU YD	2.8
14	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,392
15	REINFORCEMENT BARS	POUND	4,440
16	STEEL RAILING, TYPE S1	FOOT	120
17	FURNISHING STEEL PILES HP12X53	FOOT	210
18	DRIVING PILES	FOOT	210
19	TEST PILE STEEL HP12X53	EACH	1
20	NAME PLATES	EACH	1
21	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	160
22	TERMINAL MARKER - DIRECT APPLIED	EACH	4

SCHEDULE OF KNOWN UTILITIES

DESIGN STAGE JULIE NO. A241782998

UTILITY COMPANY	TYPE	CONTACT NAME	PHONE NUMBER	E–MAIL ADDRESS	MAILING ADDRESS
FRONTIER COMMUNICATIONS	COMMUNICATIONS	DEREK VAN GUNDY	618–395–6191	derek.vangundy@ftr.com	225 E. CHESTNUT ST., OLNEY, IL 62450

COMMITMENTS

1. U.S. ARMY CORPS OF ENGINEERS SECTION 404 NATIONWIDE PERMIT.
2. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY GIVEN YEAR.

NOT FOR BIDDING

CHARLESTON ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5–19–2026	REVISED –
DATE – 2–17–2026	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES, TYPICAL SECTIONS, AND DETAILS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23–01131–00–BR	RICHLAND	17	2
BONPAS ROAD DISTRICT		ILLINOIS		

SEEDING SCHEDULE

ITEM NUMBER		1	FOR INFORMATION ONLY			
LOCATION	STATION	SEEDING, CLASS 2 (SPECIAL)	NITROGEN FERTILIZER NUTRIENT (100 LBS/ACRE)	PHOSPHOROUS FERTILIZER NUTRIENT (100 LBS/ACRE)	SUITABLE POTASSIUM FERTILIZER NUTRIENT (100 LBS/ACRE)	MULCH METHOD 2 (2 TONS/ACRE)
		(ACRE)	(POUND)	(POUND)	(POUND)	(TONS)
LT. & RT.	STA. 1+50.00 TO 4+70.00	0.40	40	40	40	0.80
LT. & RT.	STA. 5+30.00 TO 8+00.00	0.40	40	40	40	0.80
	TOTAL =	**0.80**	**80**	**80**	**80**	**1.60**

NOTE: FERTILIZER AND MULCH QUANTITIES SHOWN ARE FOR INFORMATION ONLY, SEE SPECIAL PROVISIONS.

TREE REMOVAL SCHEDULE

ITEM NUMBER					2
LOCATION	STATION	OFFSET FROM CL	OFFSET FROM CL	WIDTH	TREE REMOVAL, ACRES
		(FT)	(FT)	(FT)	(ACRE)
LT.	STA. 2+30 TO 6+10	20	55	35	0.25
RT.	STA. 3+00 TO 5+47	20	50	30	0.15
	TOTAL =				**0.40**

AGGREGATE DITCH SCHEDULE

ITEM NUMBER		3
LOCATION	STATION	AGGREGATE DITCH (SPECIAL)
		(TON)
LT.	STA. 4+00 TO STA. 4+77	40
LT.	STA. 5+30 TO STA. 6+00	35
	TOTAL =	**75**

ROADWAY SCHEDULE

ITEM NUMBER		9
LOCATION	STATION	AGGREGATE SURFACE COURSE, TYPE B
		(TON)
LT. & RT.	STA. 1+50.00 TO 4+70.00	335
LT. & RT.	STA. 5+30.00 TO 8+00.00	290
RT.	STA. 2+64 (F.E.)	15
LT.	STA. 7+00 (F.E.)	30
RT.	STA. 7+00 (F.E.)	30
	TOTAL =	**700**

PIPE CULVERT REMOVAL SCHEDULE

ITEM NUMBER				11
LOCATION	STATION	DIAMETER	TYPE	PIPE CULVERT REMOVAL
		(IN)		(FOOT)
RT.	STA. 2+70	15	CMP	25
			TOTAL =	**25**

PIPE CULVERT SCHEDULE

ITEM NUMBER		21
LOCATION	STATION	PIPE CULVERTS, CLASS D, TYPE 1 15"
		(FOOT)
RT.	STA. 2+64	40
LT.	STA. 7+00	60
LT.	STA. 7+00	60
	TOTAL =	**160**

EARTHWORK SCHEDULE

CODE NUMBER		4	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LOCATION	STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	PERCENT USED	ESTIMATED UNSUITABLE MATERIAL	ESTIMATED SUITABLE MATERIAL	SHRINKAGE FACTOR	ESTIMATED SUITABLE MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		(CU YD)	(CU YD)	(%)	(CU YD)	(CU YD)	(%)	(CU YD)	(CU YD)	(CU YD)
LT. & RT.	STA. 1+50.00 TO 4+70.00	665		100	0	665	25	499	640	-141
LT. & RT.	STA. 4+70.00 TO 5+30.00 (PROPOSED BRIDGE)		910	50	455	455	25	341		341
LT. & RT.	STA. 5+30.00 TO 8+00.00	245		100	0	245	25	184	595	-411
	SUBTOTAL =	910	910		455	1365		1024	1235	
	VOLUMES NOT SHOWN ON CROSS SECTION SHEETS									
LT. & RT.	CONCRETE STRUCTURES & POROUS GRANULAR EMBANKMENT ABUTMENT BACKFILL VOID	100		100	0	100	25	75		75
LT.	AGGREGATE DITCH (SPECIAL)	40		100	0	40	25	30		30
RT.	STA. 2+64 (FIELD ENTRANCE)								5	-5
LT.	STA. 7+00 (FIELD ENTRANCE)								40	-40
RT.	STA. 7+00 (FIELD ENTRANCE)								25	-25
	TOTAL =	1050	910		455	1505		1129	1305	-176

NOTES: 1. COST OF EXCAVATION FOR CONCRETE STRUCTURES INCLUDED IN ITEM "EARTH EXCAVATION."
2. SUITABLE EXCAVATED MATERIAL EXCAVATED FROM THE CHANNEL SHALL BE USED TO CONSTRUCT THE SHOULDER WIDENING.
3. UNSUITABLE MATERIAL SHALL BE DISPOSED OFF THE JOBSITE BY THE CONTRACTOR.
4. FURNISHED EXCAVATION = 180 C.Y.

NOT FOR BIDDING

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CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5–19–2026	REVISED –
DATE – 2–17–2026	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23–01131–00–BR	RICHLAND	17	3
BONPAS ROAD DISTRICT		ILLINOIS		

P.O.T. STA. 0+00.00
N: 698637.83
E: 1102242.62
COORDINATES BASED ON NAD83
ILLINOIS STATE PLANE
COORDINATE SYSTEM
(TO BE SET)

P.I. STA. 1+74.12
N: 698633.43
E: 1102416.68
COORDINATES BASED ON NAD83
ILLINOIS STATE PLANE
COORDINATE SYSTEM
(TO BE SET)

PI Sta =1+74.12
D =1°35'32"
Da =1°35'31"
T =50.00
R =3598.87
L =100.00
C =100.00
M =0.35
e =NC

RUTH E. YONAKA TRUST

EXISTING WETLAND
SITE 4
WET FLOODPLAIN FOREST
MEAN C = 3.4
FQI = 20.7
TOTAL IMPACTED AREA = 0.000 ACRES
CONTRACTOR SHALL NOT DISTURB THIS AREA

B.M. LT. STA. 3+50
60.6' LT. OF PROPOSED ℄ ALIGNMENT
MAG HUB IN TREE BEND 90° UP
ELEV. 449.61

23-01131-00-BR BEGINS STA. 1+50.00

℄ SURVEY & CONSTRUCTION TR 293

BIG BRANCH OF BONPAS CREEK

STA. 5+00.00 PROPOSED STRUCTURE 080-3234
SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE
58'-0" LENGTH BEAMS, 27" DEPTH BEAMS
STEEL PILE / SPILLTHROUGH ABUTMENTS
24.0' WIDE DECK
NO SKEW

EXISTING WETLAND
SITE 3
WET MEADOW
MEAN C = 1.7
FQI = 8.1
TOTAL IMPACTED AREA = 0.000 ACRES
CONTRACTOR SHALL NOT DISTURB THIS AREA

KELLY J. SCHROEDER, TRUSTEE OF THE BONNIE GRIGGS SCHROEDER SMITH LIVING TRUST DATED JULY 22, 2010
KAYE E. BLOEHS, TRUSTEE OF THE BONNIE GRIGGS SCHROEDER SMITH LIVING TRUST DATED JULY 22, 2010
CAROL M. WEAGEL, TRUSTEE OF THE CAROL WEAGEL AND PHILIP D. WEAGEL REVOCABLE LIVING TRUST UAD JULY 26, 2001
PHILIP D. WEAGEL, TRUSTEE OF THE CAROL WEAGEL AND PHILIP D. WEAGEL REVOCABLE LIVING TRUST UAD JULY 26, 2001

EXISTING WETLAND
SITE 2
WET FLOODPLAIN FOREST
MEAN C = 3.1
FQI = 17.3
TOTAL IMPACTED AREA = 0.000 ACRES
CONTRACTOR SHALL NOT DISTURB THIS AREA

LT. STA. 7+00
CONSTRUCT F.E. 34' WIDTH
PIPE CULVERT 60' X 15"ø
CLASS D, TYPE 1
U.S.F.L. = 445.93
D.S.F.L. = 444.97

SCALES:
1" = 50' HOR
1" = 5' VER

EXISTING WETLAND
SITE 5
FARMED WETLAND
MEAN C = N/A
FQI = N/A
TOTAL IMPACTED AREA = 0.000 ACRES
CONTRACTOR SHALL NOT DISTURB THIS AREA

1+50 20' LT
3+50 50' LT
4+50 55' LT
5+50 55' LT
6+50 35' LT
8+00 20' LT

PC: 1+24.11
PI: 2+24.11

PROP. R.O.W.
EXIST. R.O.W.
20'

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00

2+50 20' RT
4+00 30' RT
4+50 50' RT
5+50 50' RT
6+00 35' RT
8+00 20' RT

P.O.T. STA. 8+00.00
N: 698635.01
E: 1103042.57
COORDINATES BASED ON NAD83
ILLINOIS STATE PLANE
COORDINATE SYSTEM
(TO BE SET)

HATCH LEGEND

LIMITS OF EXISTING JURISDICTIONAL WETLAND. SEE SPECIAL PROVISIONS.

WETLAND DISTURBANCE LIMIT. AREA OF WETLAND WITHIN LIMITS OF CONSTRUCTION (PERMANENT IMPACT).

TREE REMOVAL (ACRES) LIMITS

TREE REMOVAL

EXISTING WETLAND
SITE 6
FARMED WETLAND
MEAN C = N/A
FQI = N/A
TOTAL IMPACTED AREA = 0.000 ACRES
CONTRACTOR SHALL NOT DISTURB THIS AREA

TRANSITION EXISTING ROADWAY TO PROPOSED ROADWAY STA. 1+00 TO 1+50 AND 8+00 TO 8+50. QUANTITIES FOR THE ABOVE ARE INCLUDED IN THOSE LISTED.

EXISTING WETLAND
SITE 1
WET FLOODPLAIN FOREST
MEAN C = 3.4
FQI = 23.9
TOTAL IMPACTED AREA = 0.034 ACRES
CONTRACTOR SHALL NOT DISTURB THIS AREA OUTSIDE OF ANNOTATED WETLAND DISTURBANCE LIMIT

RT. STA. 2+64
CONSTRUCT F.E. 24' WIDTH
PIPE CULVERT 40' X 15"ø
CLASS D, TYPE 1
U.S.F.L. = 448.61
D.S.F.L. = 448.01

APPROACH SHOULDER WIDENING TRANSITION - SEE BRIDGE SHOULDER WIDENING PLAN SHEET

STA. 5+00.00 EXISTING STRUCTURE WITH NO STRUCTURE NUMBER
SINGLE SPAN COLLAPSED STEEL GIRDER BRIDGE WITH CAST-IN-PLACE CONCRETE DECK BEARING ON CLOSED CONCRETE ABUTMENTS
TO BE REMOVED AND DISPOSED OFF OF THE JOBSITE BY THE CONTRACTOR
21.5' LENGTH DECK
15.2' WIDE DECK
NO SKEW

BRETT J. POOL

RT. STA. 7+00
CONSTRUCT F.E. 34' WIDTH
PIPE CULVERT 60' X 15"ø
CLASS D, TYPE 1
U.S.F.L. = 445.97
D.S.F.L. = 445.37

23-01131-00-BR
ENDS STA. 8+00.00

PVI STA: 6+04.92
PVI ELEV: 450.40
K: 63.54
LVC: 100.00
EVCS: 5+54.92
EVCE: 450.40
BVCS: 6+54.92
BVCE: 449.61

PVI STA: 2+66.24
PVI ELEV: 450.40
K: 160.13
LVC: 100.00
BVCS: 2+16.24
BVCE: 450.71
EVCS: 3+16.24
EVCE: 450.40

PVI STA: 7+29.92
PVI ELEV: 448.43
K: 39.17
LVC: 140.00
LP STA: 7+21.57
LP ELEV: 449.05
BVCS: 6+59.92
BVCE: 449.53
EVCS: 7+99.92
EVCE: 449.83

15 YR. H.W.E. 446.9
100 YR. H.W.E. 447.9
PROPOSED ℄ SURFACE
EXISTING SURFACE

S.D. RT.
GRADE BREAK STA = 2+70.00
ELEV = 448.27
-0.62%
S.D. RT. -1.25%
S.D. RT. -1.50%
S.D. LT. -3.53%
S.D. LT. -1.00%
S.D. LT.
GRADE BREAK STA = 1+50.00
ELEV = 450.05
S.D. RT.
GRADE BREAK STA = 1+50.00
ELEV = 449.77
S.D. LT.
GRADE BREAK STA = 3+50.00
ELEV = 443.00
S.D. RT.
GRADE BREAK STA = 4+76.65
ELEV = 445.17
-0.00%
S.D. LT.
GRADE BREAK STA = 4+83.55
ELEV = 441.66
S.B. ELEV. 436.4
11.7'
S.D. RT.
GRADE BREAK STA = 5+20.87
ELEV = 443.88
S.D. LT.
GRADE BREAK STA = 5+18.20
ELEV = 442.54
S.D. RT. 1.00%
S.D. LT. 1.60%
-1.57%
2.00%
S.D. RT. 2.77%
S.D. LT. 3.90%
S.D. LT.
GRADE BREAK STA = 8+00.00
ELEV = 448.20
S.D. RT.
GRADE BREAK STA = 8+00.00
ELEV = 447.91
S.D. LT.
GRADE BREAK STA = 7+50.00
ELEV = 446.25
S.D. RT.
GRADE BREAK STA = 7+30.00
ELEV = 445.97

470 465 460 455 450 445 440 435 430 425

451.8 451.1 451.13 450.5 450.81 450.2 450.54 449.7 450.41 449.2 450.40 448.8 450.40 448.7 450.40 436.5 450.40 448.0 450.40 448.0 450.24 448.0 449.69 448.2 449.11 448.6 449.15 449.8 449.83 452.3 455.7

-2+00 -1+00 0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00

NOT FOR BIDDING

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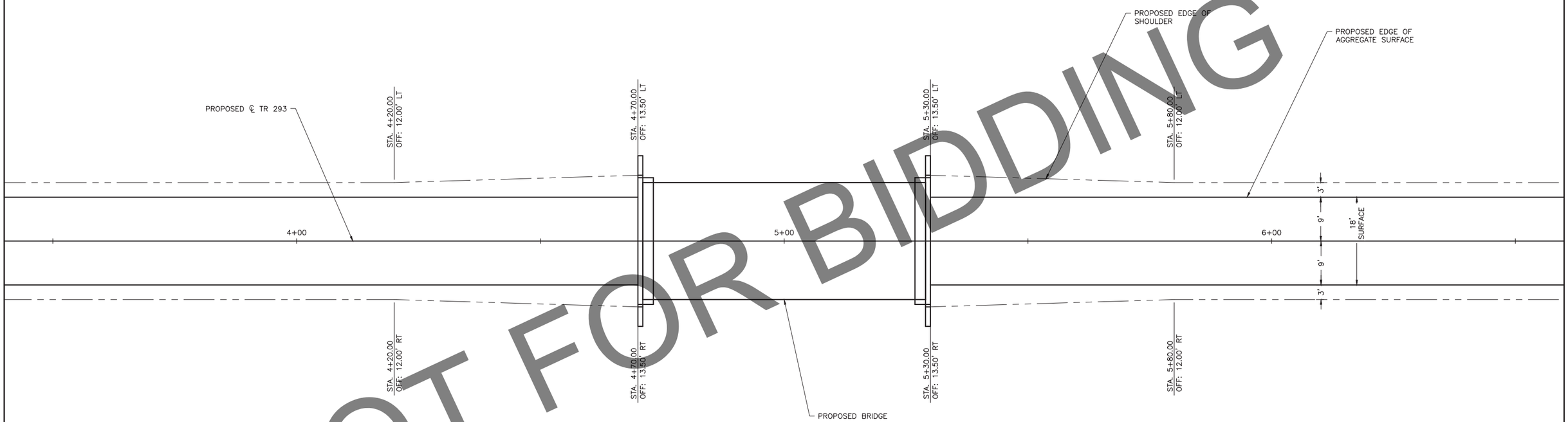
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	4
BONPAS ROAD DISTRICT		ILLINOIS		

SCALE:
1" = 10'

NOTE: PROPOSED SHOULDER AND EDGE OF PAVEMENT CONTINUE TO BEGINNING AND END OF PROJECT AS SHOWN ON PLAN AND PROFILE SHEET.



NOT FOR BIDDING

PROPOSED SHOULDER LAYOUT

CHARLESTON ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

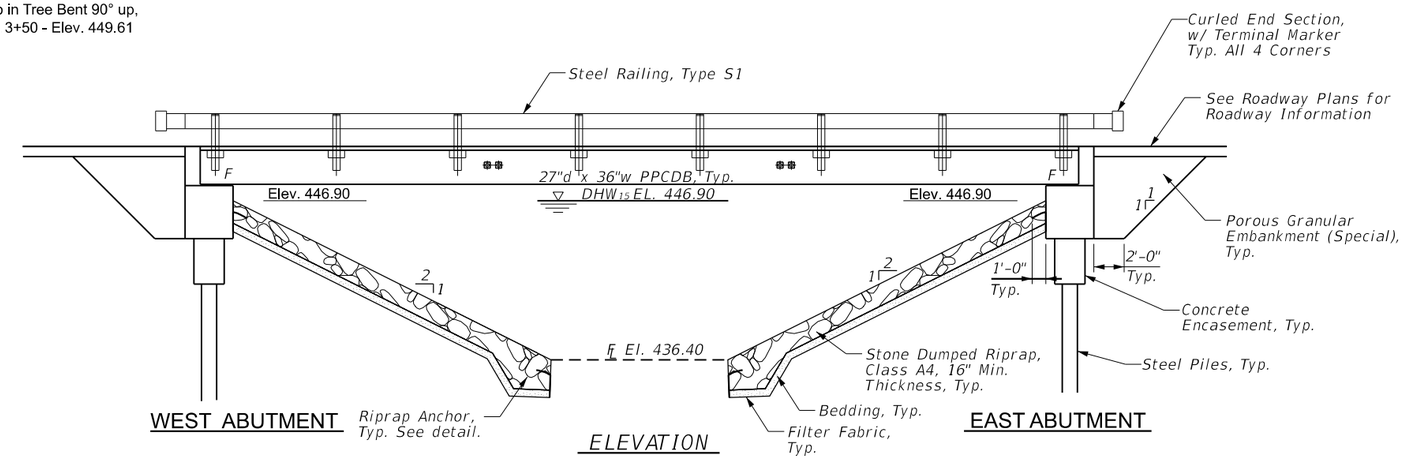
DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5-19-2026	REVISED –
DATE – 2-17-2026	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

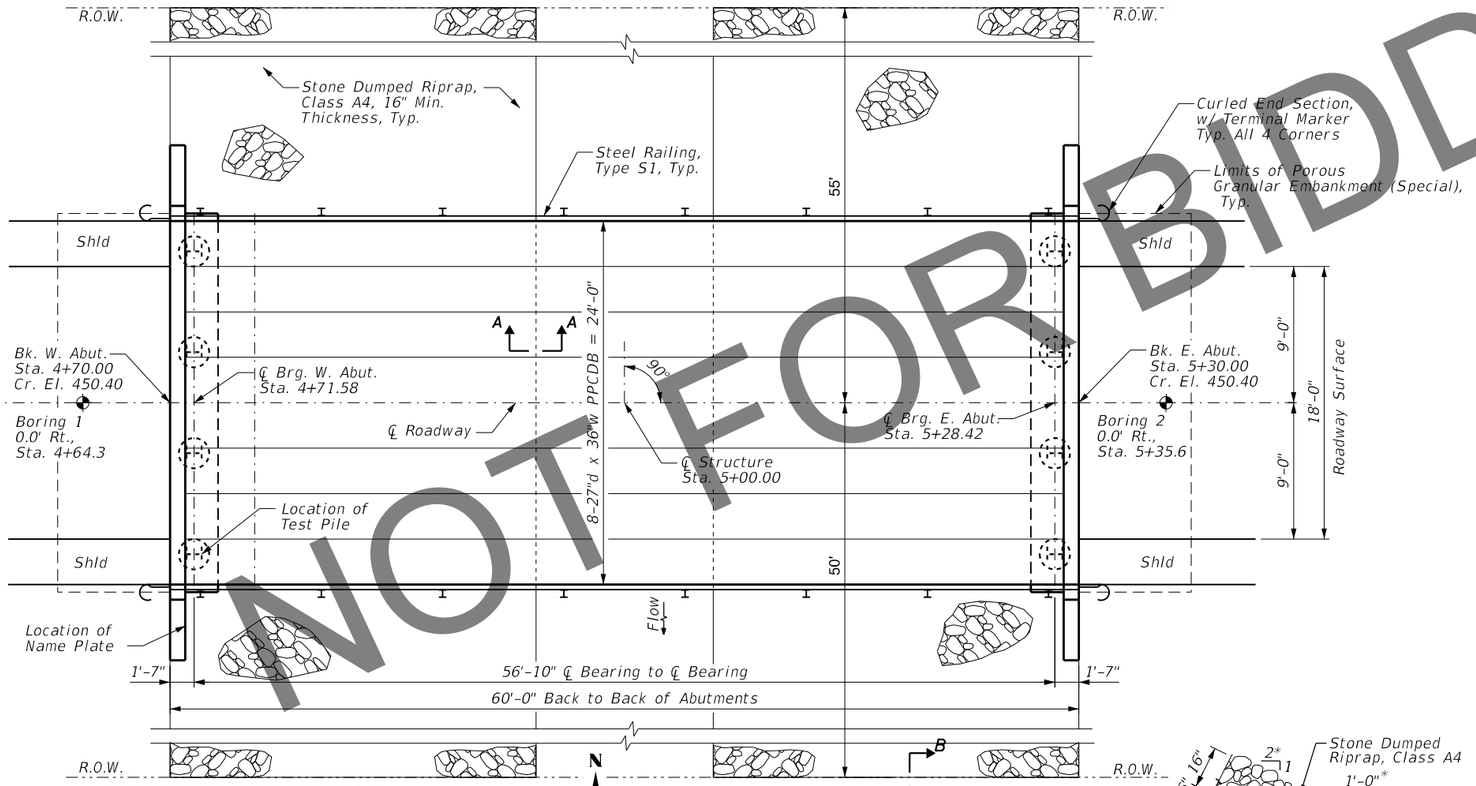
BRIDGE SHOULDER WIDENING PLAN

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	5
BONPAS ROAD DISTRICT		ILLINOIS		

TBM - Mag Hub in Tree Bent 90° up,
60.6' '± Lt., Sta. 3+50 - Elev. 449.61



ELEVATION



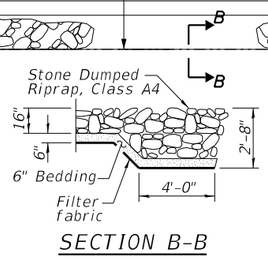
PLAN

WATERWAY INFORMATION

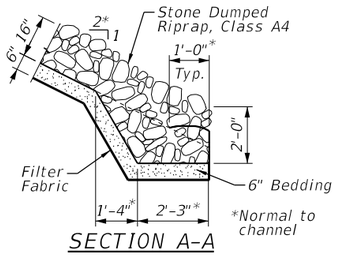
(Hydraulic info. furnished by & responsibility of Charleston Engineering, Inc.)

Drainage Area = 2.2 sq. mi.
Exist. Low Grade Elev. 447.95 @ Sta. 6+40
Prop. Low Grade Elev. 449.05 @ Sta. 7+21.57

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.
Design	15	930	156.3	345.1	446.9	0.3	0.0	447.2	446.9
Base	100	1480	166.9	398.2	447.9	0.9	0.1	448.8	448.0
-	-	-	-	-	-	-	-	-	-
Max. Calc.	500	2020	166.9	398.2	448.4	1.5	0.2	449.9	448.6



SECTION B-B



SECTION A-A

LOADING HL-93

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

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications 2020 (9th Ed.)

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi (substructure)
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f_{pu} = 270,000 psi (½"℄ low lax. strands)
f_{pbt} = 201,960 psi (½"℄ low lax. strands)
f_y = 60,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Soil Site Classification = C
S_{D1} = 0.178 S_{DS} = 0.477

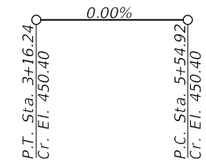
Existing Structure: Structure No.: None. Single span steel girder bridge with cast-in-place concrete deck on closed concrete abutments (In Failed Condition). 21.5'± L. x 15.2'± W. To be removed.

BILL OF MATERIALS (BRIDGE ONLY)

ITEM	UNIT	TOTAL
Stone Dumped Riprap, Class A4	Ton	650
Removal of Existing Structures	Each	1
Concrete Structures	Cu Yd	29.2
Concrete Encasement	Cu Yd	2.8
PPCDB (27" Depth)	Sq Ft	1392
Reinforcement Bars	Pound	4440
Steel Railing, Type S1	Foot	120
Furnishing Steel Piles HP12x53	Foot	210
Driving Piles	Foot	210
Test Pile Steel HP12x53	Each	1
Name Plates	Each	1
Terminal Marker - Direct Applied	Each	4
Porous Granular Embankment (Special)	Ton	100

GENERAL NOTES

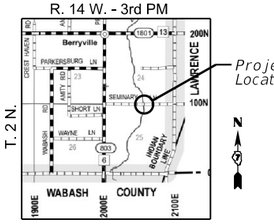
1. Do not scale these drawings.
2. See Section 502 of the Standard Specifications for Structural Excavation. An allowance for Structure Excavation has been included in the quantity for Earth Excavation. See note on Earthwork Schedule, Sheet 3.
3. Channel Excavation shall be excavated within the limits of the proposed bridge, then tapered to the existing channel at the ROW line. See Roadway Plan and Profile sheet for Channel Excavation.
   If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment. See note on Earthwork Schedule, Sheet 3.
4. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. The cost of the bedding material and filter fabric shall be included in the cost of the Stone Dumped Riprap, Class A4 and no additional compensation will be allowed. The estimated quantity for the bedding material is 170 tons and the estimated quantity for filter fabric is 677 sq yd (for information only). The quantity shown for Stone Dumped Riprap, Class A4 includes the estimated quantity for the bedding material.
5. See Sheet 12 for Soil Borings.
6. The abutment bearing seat surfaces for the Precast Prestressed Concrete Deck Beams shall be adjusted by shimming to assure firm and even bearing. As required, 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.



GRADE ON STRUCTURE
(along ℄ TR 293)

BIG BRANCH OF BONPAS CREEK
BUILT 20__ BY
RICHLAND COUNTY
SEC. 23-01131-00-BR
TR 293 STA. 5+00.00
LOADING HL-93
STRUCTURE NO. 080-3234

NAME PLATE
See Std. 515001



LOCATION SKETCH

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 Standard Specifications for Highway Bridges.

Signed: 06/05/2026

John S. Peradotti
Salem, Illinois
Illinois Licensed Structural Engineer
No. 081-005671
Lic. Expires Nov. 30, 2026

JOHN S. PERADOTTI 081-005671 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

NOT FOR BIDDING

GCL JOB NO. 25-6019

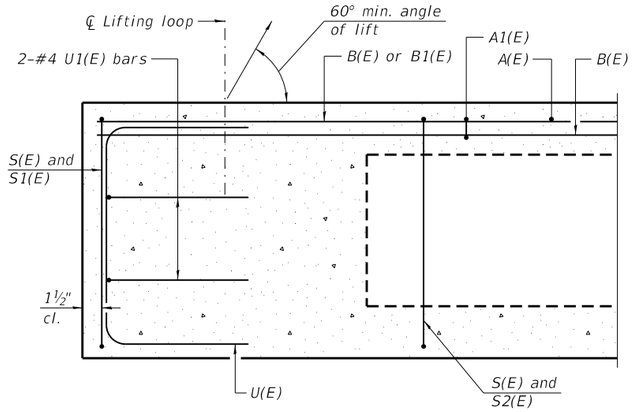
gonzalez
GONZALEZ COMPANIES, LLC
7 CARPENTER DRIVE
SALEM, IL 62881
PHONE (618) 222-2221
www.gonzalezcos.com
ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564

DESIGNED - BLT	REVISED -	
DRAWN - JMW	REVISED -	
CHECKED - JSP	REVISED -	
DATE - 06/05/2026	REVISED -	

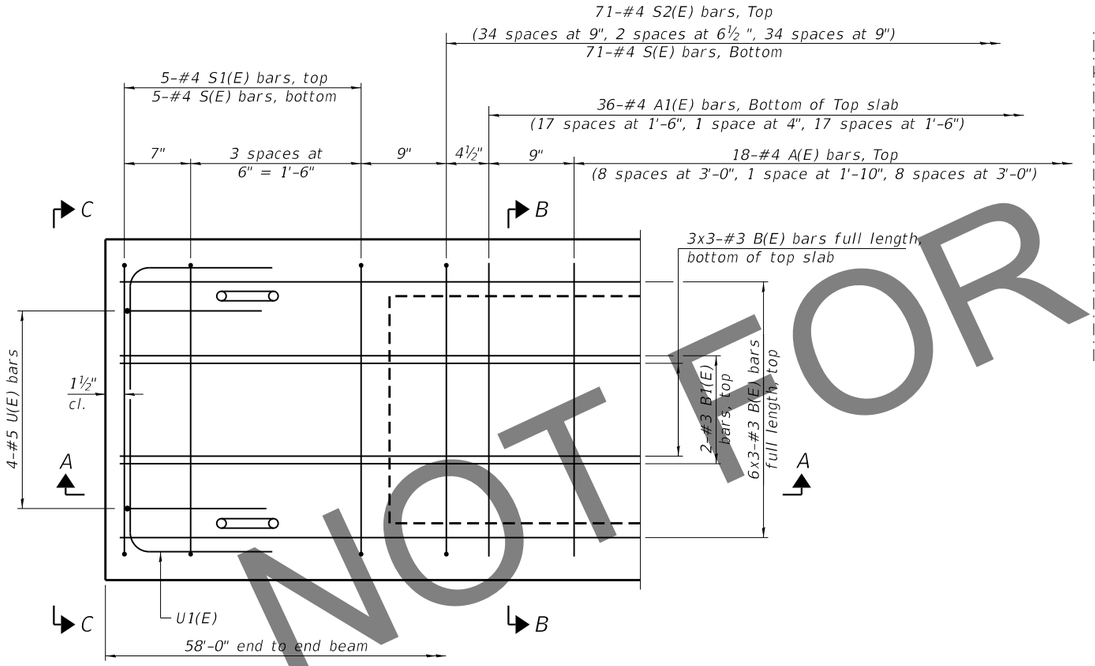
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 080-3234

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	18	6
BONPAS ROAD DISTRICT		ILLINOIS		



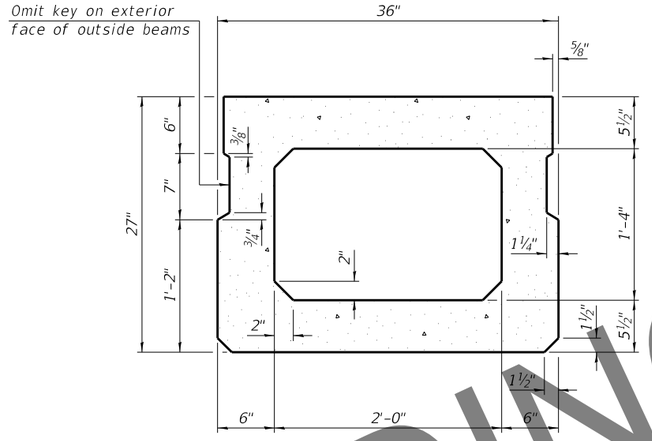
SECTION A-A



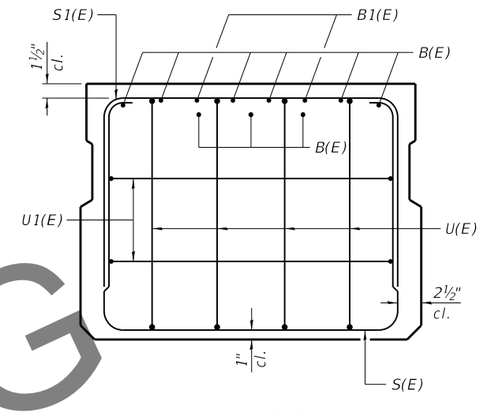
PLAN VIEW

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

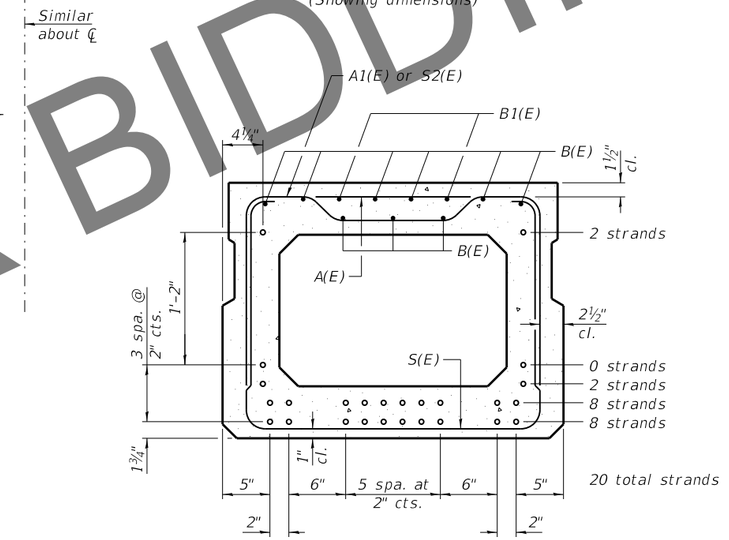
Bars indicated thus: 4x3-#3, etc. Indicates 4 lines of bars with 3 lengths per line.



SECTION B-B
(Showing dimensions)



VIEW C-C



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

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

MINIMUM BAR LAP
#3 bar = 1'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	2'-7"	—
A1(E)	36	#4	2'-10"	~
B(E)	27	#3	20'-3"	—
B1(E)	4	#3	10'-0"	—
S(E)	81	#4	7'-5"	⊔
S1(E)	10	#4	5'-11"	⊓
S2(E)	71	#4	6'-2"	⊓
U(E)	8	#5	4'-6"	⊏
U1(E)	4	#4	5'-0"	⊓

Note:
See sheet 8 for additional details and Bill of Material.

NOT FOR BIDDING

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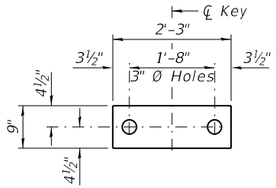
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DRAWN	- JMW	REVISED	-
CHECKED	- JSP	REVISED	-
DATE	- 06/05/2026	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

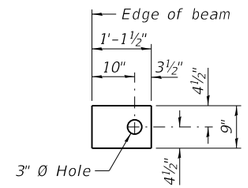
PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS

GCL JOB NO. 25-6019

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	18	7
BONPAS ROAD DISTRICT		ILLINOIS		



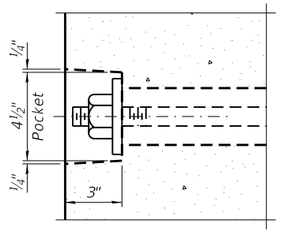
FABRIC BEARING PAD
(Interior)



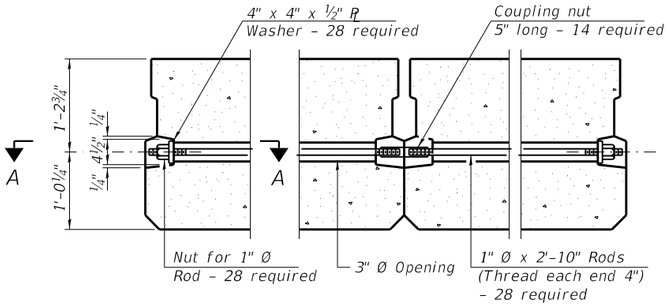
FABRIC BEARING PAD
(Exterior)

FIXED

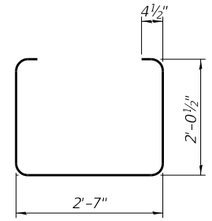
Notes: All bearing pads shall be 1" thick.



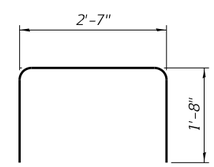
SECTION A-A



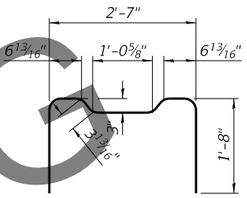
TYPICAL TRANSVERSE TIE ASSEMBLY



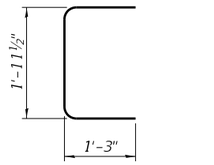
BAR S(E)



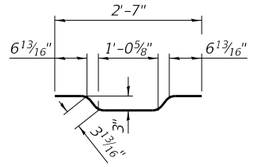
BAR S1(E)



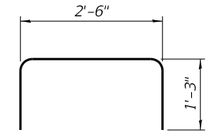
BAR S2(E)



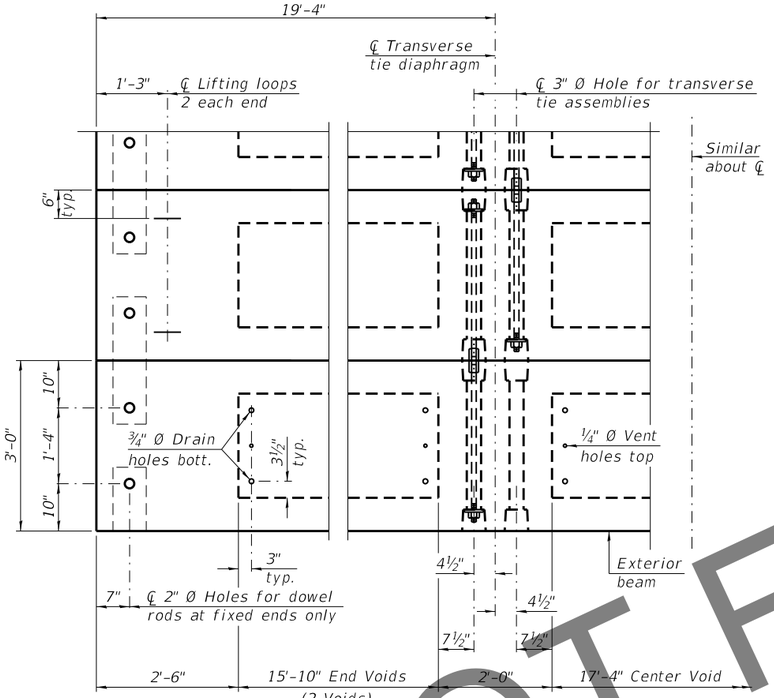
BAR U(E)



BAR A1(E)

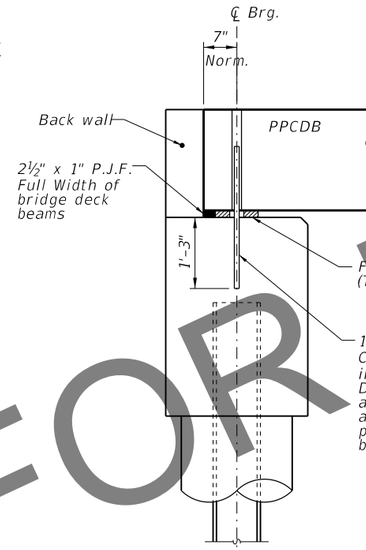


BAR U1(E)

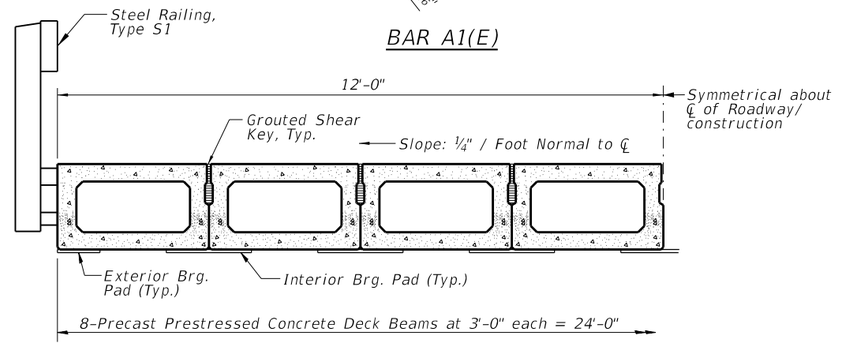


PLAN VIEW

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

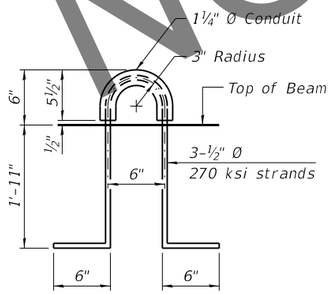


FIXED BEARING
ABUTMENT
(Normal to ℄)



HALF CROSS SECTION

See Sheet 9 for the details showing the spacing and mounting of posts and rails to the PPCDB.



LIFTING LOOP DETAIL

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.

Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60 (IL Modified).

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.

Bars indicated with (E) Shall be Epoxy Coated

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1392

NOT FOR BIDDING

GCL JOB NO. 25-6019

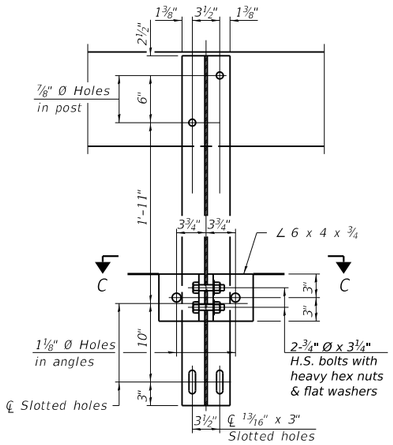
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DRAWN -	JMW	REVISED -
CHECKED -	JSP	REVISED -
DATE -	06/05/2026	REVISED -

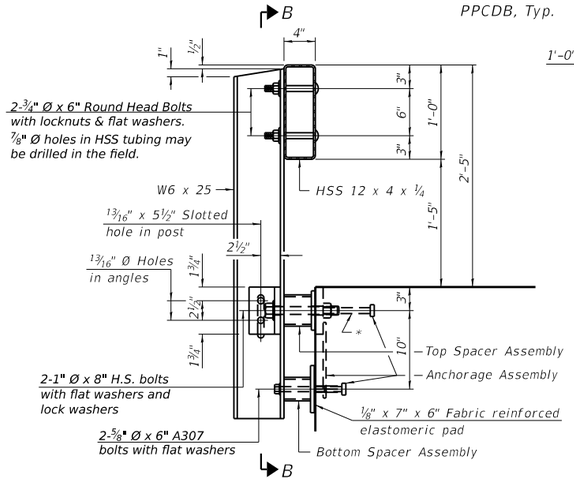
STATE OF ILLINOIS
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PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	18	8
BONPAS ROAD DISTRICT		ILLINOIS		

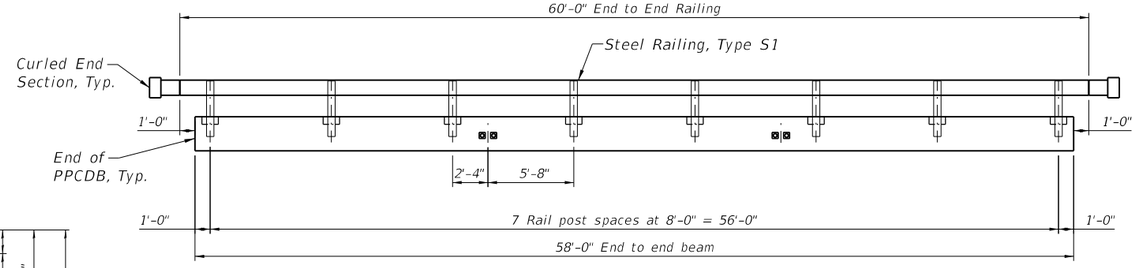


SECTION B-B



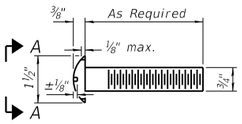
SECTION AT RAILING POST

* The outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchorage assembly. The anchorage studs may be bent down ½" to accommodate the top reinforcement bar placement.

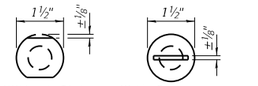


ELEVATION

Note: The cost of the Curled End Sections shall be included in the contract unit price per foot for "STEEL RAILING, TYPE S1", and no additional compensation will be allowed.

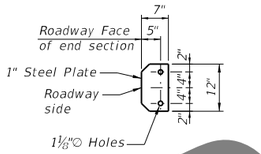


ROUND HEAD BOLT DETAIL

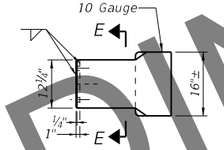


Without Slot or Recess — With Slot (shown) or Approved Recess

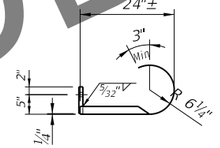
VIEW A-A



SECTION E-E



ELEVATION



PLAN

CURLED END SECTION DETAILS

Cost of curled end sections is included with Steel Railing (4 Each Req'd)

Notes:

A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11½", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than ¼" (top) or ½" (bottom), longer bolts are required. Cost included with Steel Railing, Type S-1.

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

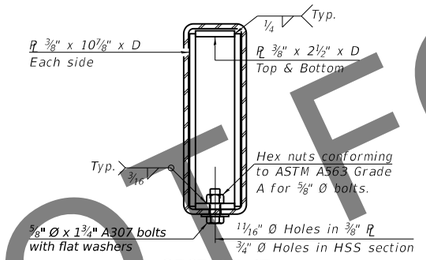
All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

Rail splice inserts may be built out of 2 -⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.

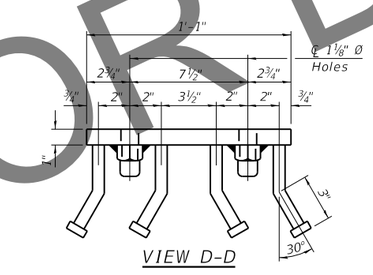
All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

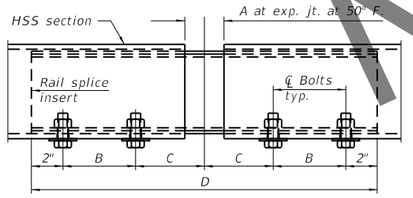
SECTION C-C



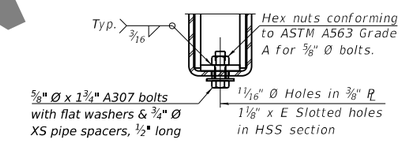
SECTION AT RAIL SPLICE



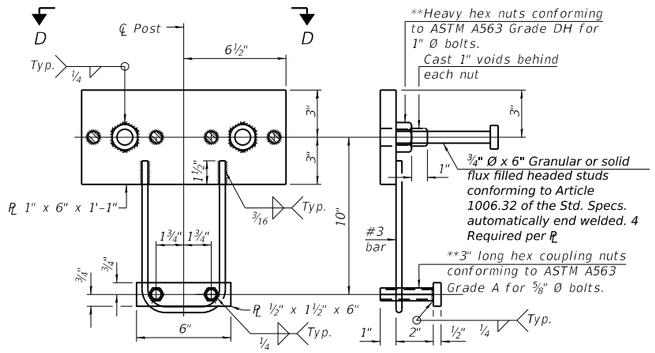
VIEW D-D



RAIL SPLICE ELEVATION

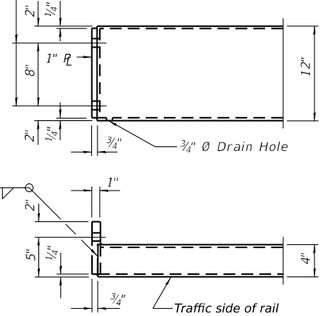


RAIL SPLICE CONNECTION AT EXPANSION JT.

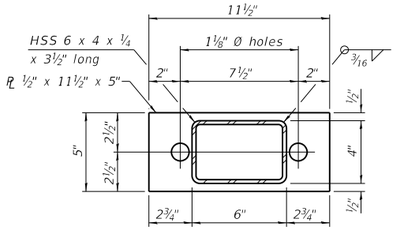


ANCHORAGE ASSEMBLY

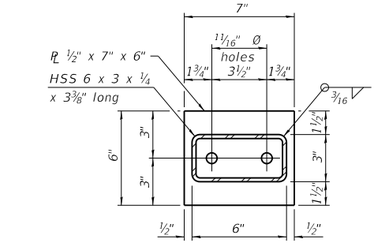
** Threaded areas shall be plugged or blocked off during casting of concrete.



END OF RAIL DETAILS



TOP SPACER ASSEMBLY



BOTTOM SPACER ASSEMBLY

RAILING CRITERIA

NCHRP 350 Test Level	2
Railing Weight (plf)	50
Max Post Spacing	10'-9"
HMA thickness range (in)	1¼ - 3⅛

SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	¼"	4"	4"	1'-8"	–

T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	120

NOT FOR BIDDING

GCL JOB NO. 25-6019

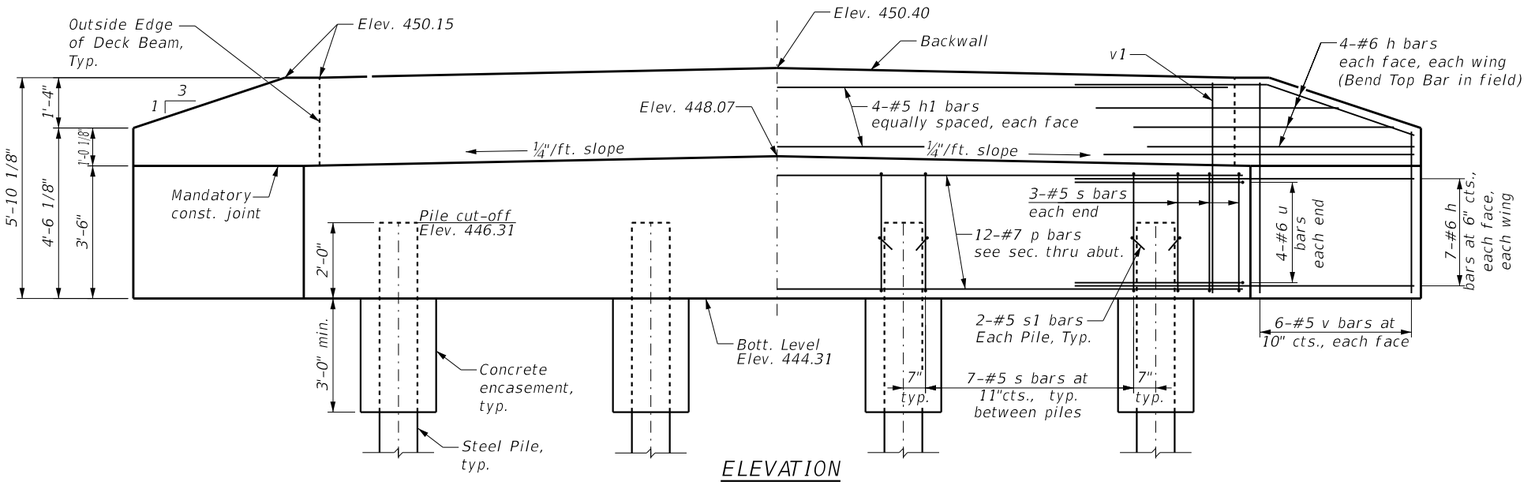
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PHONE (618) 222-2221
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ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564

DESIGNED	- BLT	REVISED -
DRAWN	- JMW	REVISED -
CHECKED	- JSP	REVISED -
DATE	- 06/05/2026	REVISED -

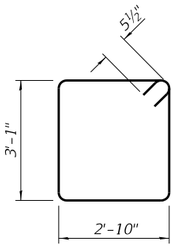
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE S1 DETAILS

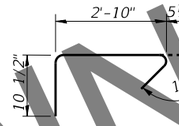
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	18	9
BONPAS ROAD DISTRICT		ILLINOIS		



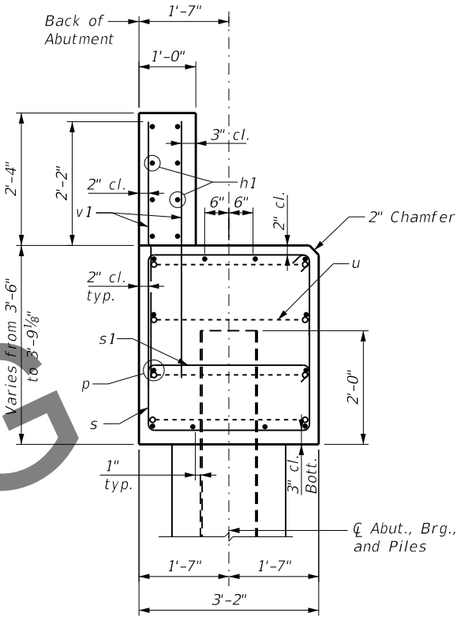
ELEVATION



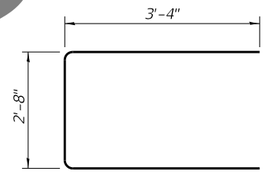
BAR s



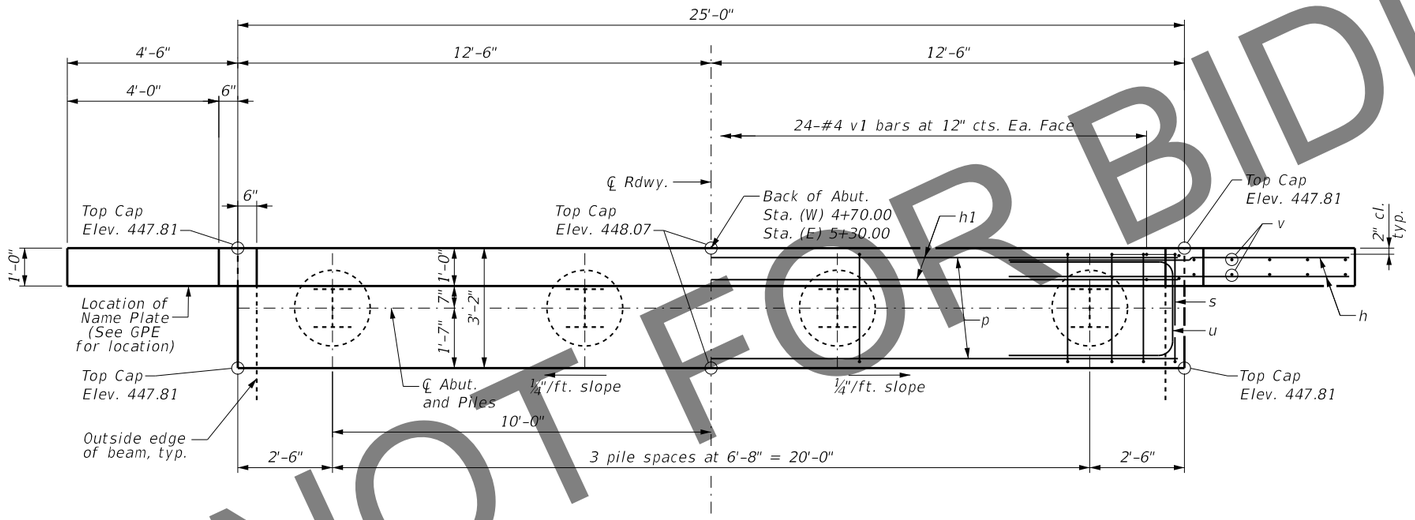
BAR s1



SECTION THRU ABUTMENT
(Normal to ℄ Abutment)



BAR u



PLAN

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	44	#6	8'-6"	
h1	8	#5	23'-8"	
p	12	#7	24'-8"	
s	27	#5	12'-9"	
s1	8	#5	4'-2"	
u	8	#6	9'-4"	
v	24	#5	5'-5"	Cut in Field
v1	48	#5	4'-4"	
Concrete Structures		Cu Yd	14.6	
Concrete Encasement		Cu Yd	1.4	
Reinforcement Bars		Pound	2220	
Furnishing Steel Piles HP12x53	Foot	W. Abut.	90	
		E. Abut.	120	
Driving Piles	Foot	W. Abut.	90	
		E. Abut.	120	
Test Pile, Steel HP12x53	Each	W. Abut.	1	
		E. Abut.	0	

Notes:
For details of piles and Concrete Encasement, see sheet 11.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified).

All exposed edges shall have standard ¾" chamfer, unless otherwise noted or as directed by the Engineer.

All clearances between rebar and form surface shall be 2", unless otherwise noted.

Space reinforcement in cap to miss PPCDB dowel rods.

The Steel H-piles shall be according to AASHTO M270 Grade 50.

The Contractor shall drive Test Pile(s) of the number & size indicated, in a permanent location, as shown on the plans or as directed by the Engineer before ordering the remainder of the piles.

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

The back wall and portion of the wingwalls above the construction joint shall be cast against the in-place deck beams.

The position of the 90° & 135° hooked ends of the s1 bar shall be alternated between adjacent bars horizontally.

PILE DATA WEST ABUTMENT

Type:	Steel HP12x53
Nominal Required Bearing:	418 kips
Factored Resistance Available:	230 kips
Est. Length:	30'/pile
No. Production Piles	3
No. Test Piles	1

PILE DATA EAST ABUTMENT

Type:	Steel HP12x53
Nominal Required Bearing:	418 kips
Factored Resistance Available:	230 kips
Est. Length:	30'/pile
No. Production Piles	4
No. Test Piles	0

NOT FOR BIDDING

GCL JOB NO. 25-6019

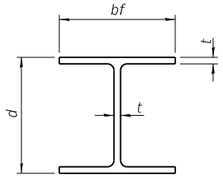
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DESIGNED	BLT	REVISED -
DRAWN	JMW	REVISED -
CHECKED	JSP	REVISED -
DATE	06/05/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

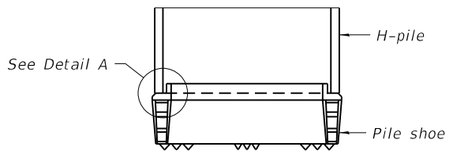
ABUTMENT DETAILS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	18	10
BONPAS ROAD DISTRICT		ILLINOIS		

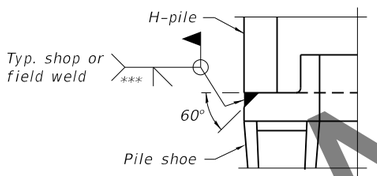


STEEL PILE TABLE

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



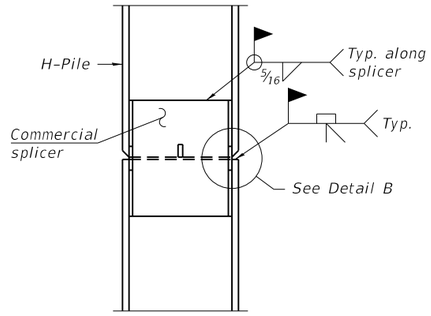
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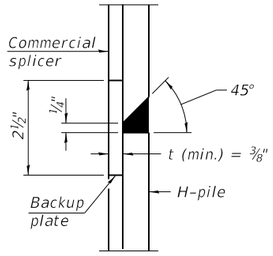
DETAIL A

SHOE ATTACHMENT

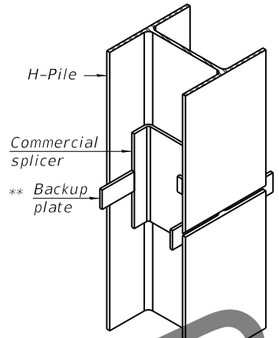
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

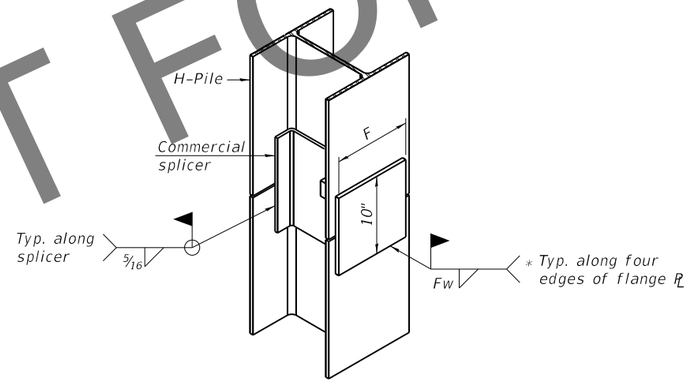


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



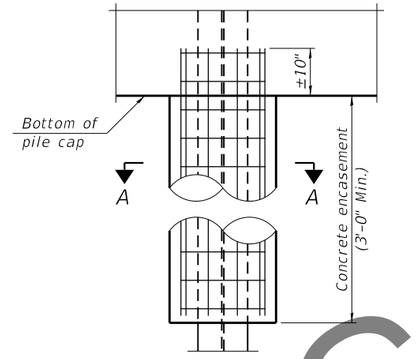
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

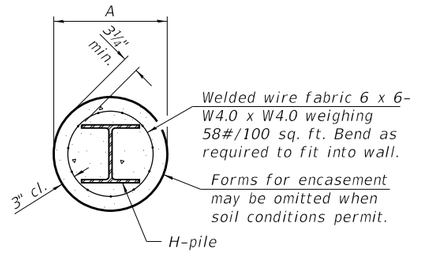
* Interrupt welds 1/4" from end of web and/or each flange.

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

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

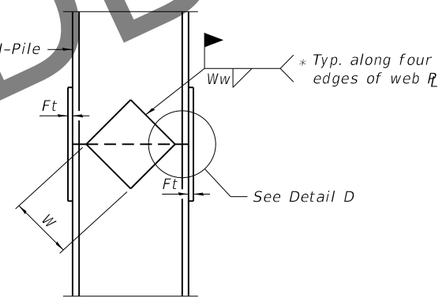


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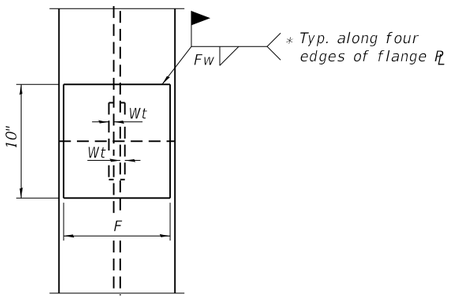


SECTION A-A

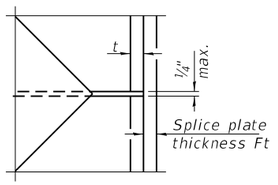
INDIVIDUAL PILE CONCRETE ENCASEMENT
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

NOT FOR BIDDING

GCL JOB NO. 25-6019

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DRAWN - JMW	REVISED -	
CHECKED - JSP	REVISED -	
DATE - 06/05/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	18	11
BONPAS ROAD DISTRICT		ILLINOIS		

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-23236
Section: 23-01131-00-BR
Structure:
County: Richland
Bridge TR 293 over Big Branch of Bonpas Creek
Station
Date: 2/1/2024
Bored by: D. Russell
Checked By: T. Hudgens

Boring No: 1
Station:
Offset:
Surface Water Elev.
Ground Water Elev. During Drilling DRY
Upon Completion DRY

	Elevation	N	Qu tsf	w %
Ground Surface	448.0			
	0			
5" Gravel with Grass				
Gray Mottled Brown Silty CLAY (A-6) with trace sand		9	1.8S	17
	444.5			
Gray Mottled Brown Sandy CLAY (A-6)	-5	12	--	12
	442.0			
Gray Mottled Brown SAND (A-2-4) with trace clay		7	--	18
	439.5			
Brown Mottled Gray Sandy CLAY (A-6)	-10	5	0.7S	21
	437.0			
Brown Mottled Gray Weathered SHALE		23	--	17
	434.5			
Gray Mottled Brown Weathered SHALE	-15	18	3.7S	21
		32	4.3S	18
	-20	52	4.2S	13
		41	6.5S	13
	-25	67	2.7S	14
	422.0			
Gray SHALE		100/5"	--	6
		100/2"	--	7
	-30	100/4"	--	7
	416.5			
End of Boring @ -31.5'	-35			
	-40			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-23236
Section: 23-01131-00-BR
Structure:
County: Richland
Bridge TR 293 over Big Branch of Bonpas Creek
Station
Date: 2/1/2024
Bored by: D. Russell
Checked By: T. Hudgens

Boring No: 2
Station:
Offset:
Surface Water Elev.
Ground Water Elev. During Drilling DRY
Upon Completion DRY

	Elevation	N	Qu tsf	w %
Ground Surface	448.0			
	0			
3" Gravel with Grass				
Brown Mottled Gray Sandy CLAY (A-6)		7	1.0S	17
	444.5			
Brown Mottled Gray SAND (A-2-4) with trace clay	-5	19	--	9
	442.0			
Brown Sandy CLAY (A-6) with gravel		9	1.0S	15
	439.5			
Brown Mottled Gray Sandy CLAY (A-6)	-10	5	1.1S	19
		7	3.1S	25
	434.5			
Brown Mottled Gray Weathered SHALE	-15	10	2.7S	20
		20	5.2S	18
	429.5			
Gray Mottled Brown Weathered SHALE	-20	34	--	15
		48	--	10
	424.5			
Gray SHALE		100/6"	2.2S	10
	-25	100/6"	--	6
		100/3"	--	7
	418.5			
End of Boring @ -29.5'	-30			
	-35			
	-40			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

NOT FOR BIDDING

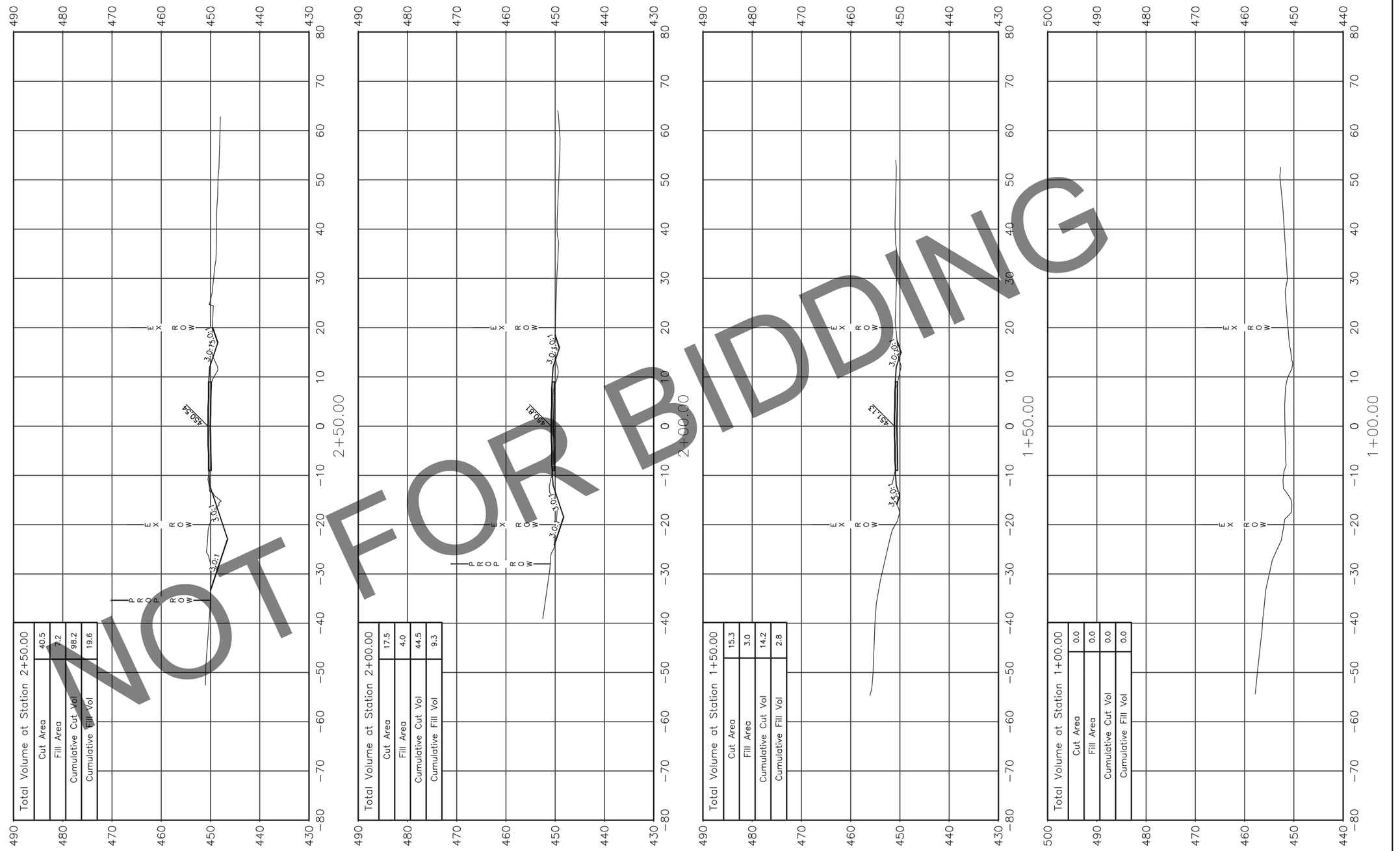
CHARLESTON ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DESIGNED - BMB	REVISED -
DRAWN - BMB	REVISED -
CHECKED - 5-19-2026	REVISED -
DATE - 2-17-2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	12
BONPAS ROAD DISTRICT		ILLINOIS		



NOT FOR BIDDING

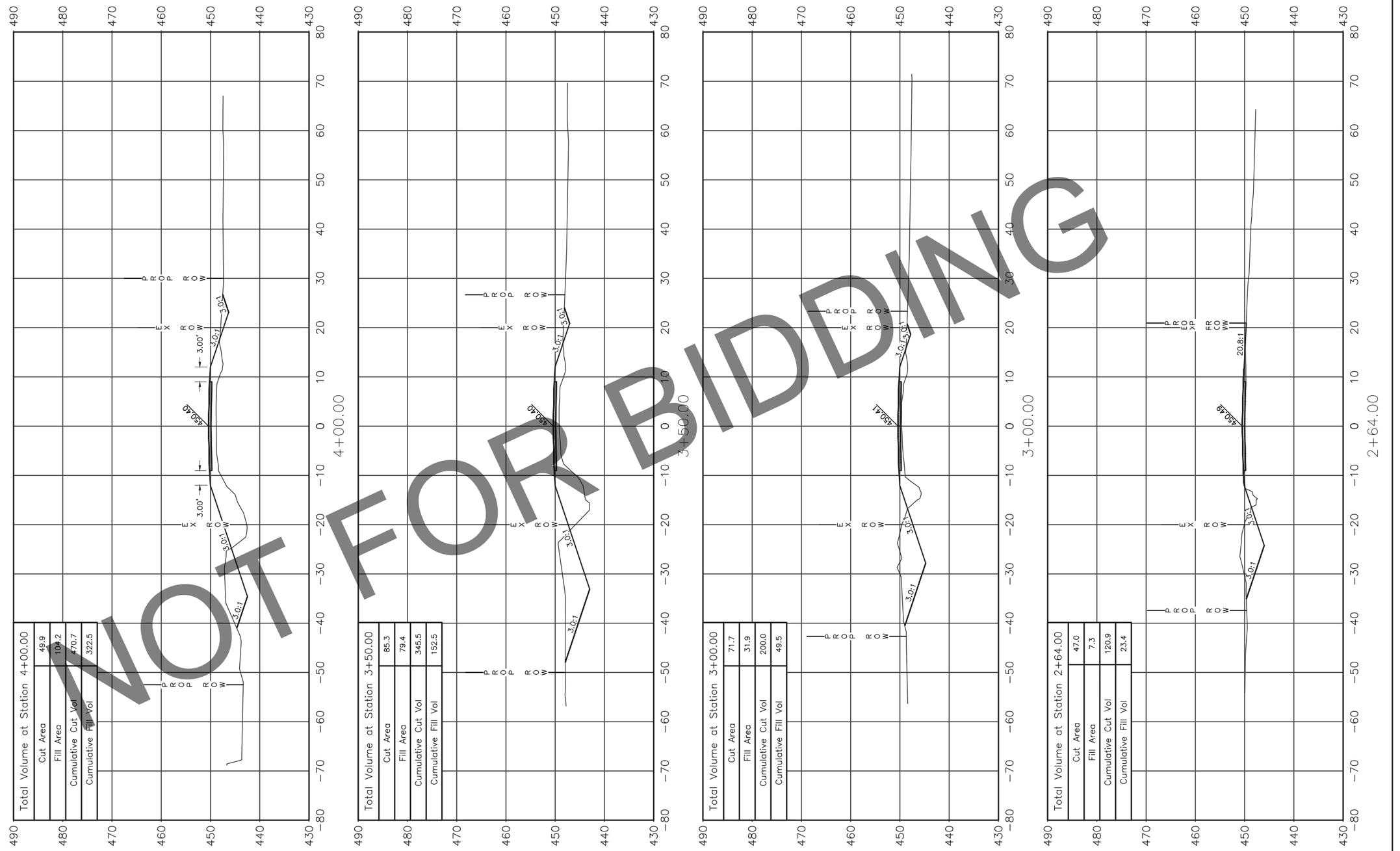
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CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5-19-2026	REVISED –
DATE – 2-17-2026	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS OF ROADWAY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	13
BONPAS ROAD DISTRICT		ILLINOIS		



NOT FOR BIDDING

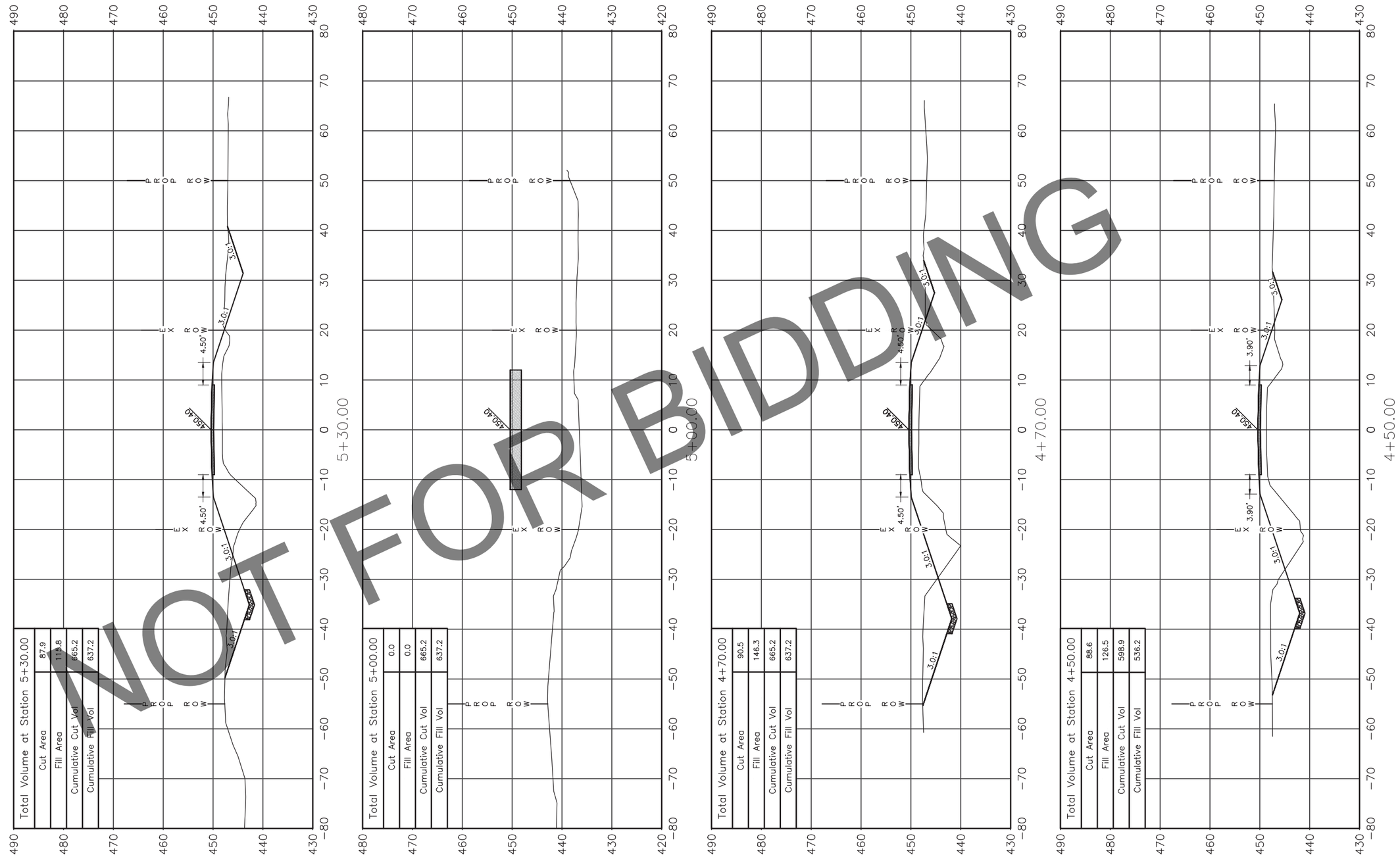
CHARLESTON ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5-19-2026	REVISED –
DATE – 2-17-2026	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS OF ROADWAY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	14
BONPAS ROAD DISTRICT		ILLINOIS		



NOT FOR BIDDING

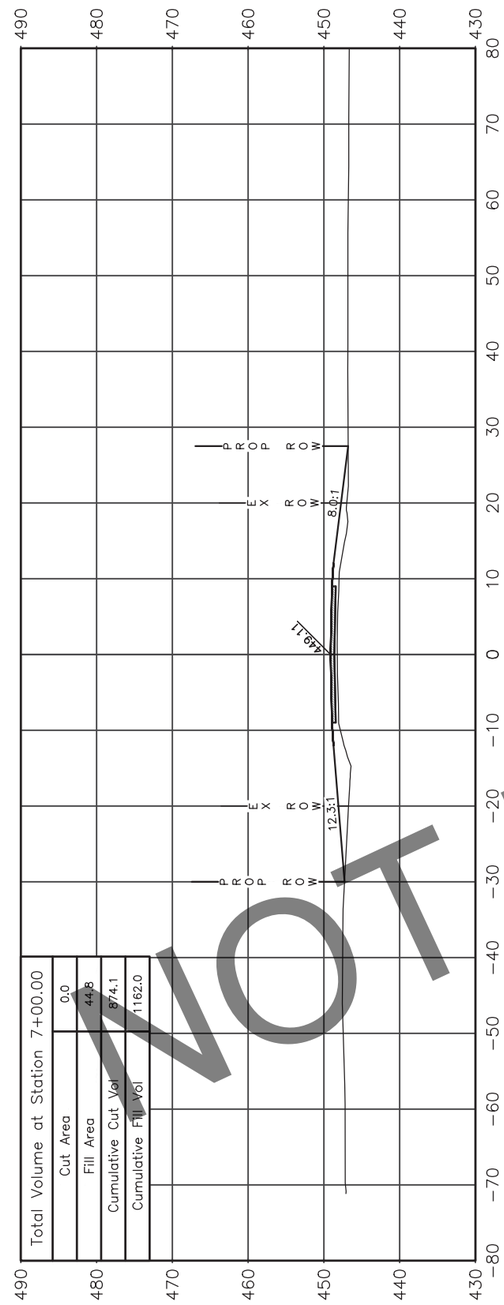
CHARLESTON ENGINEERING, INC.
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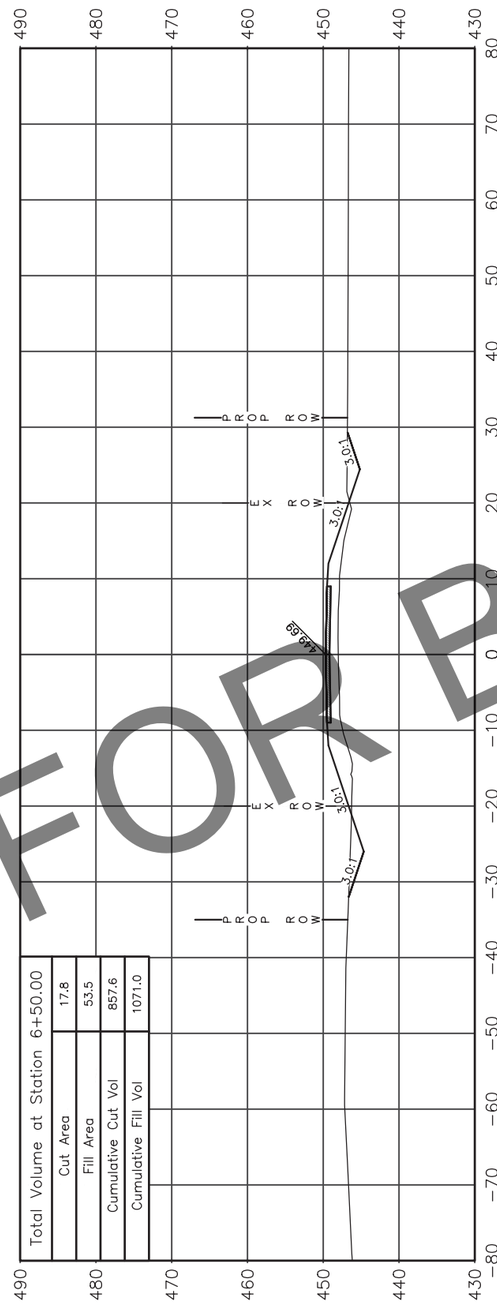
DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5-19-2026	REVISED –
DATE – 2-17-2026	REVISED –

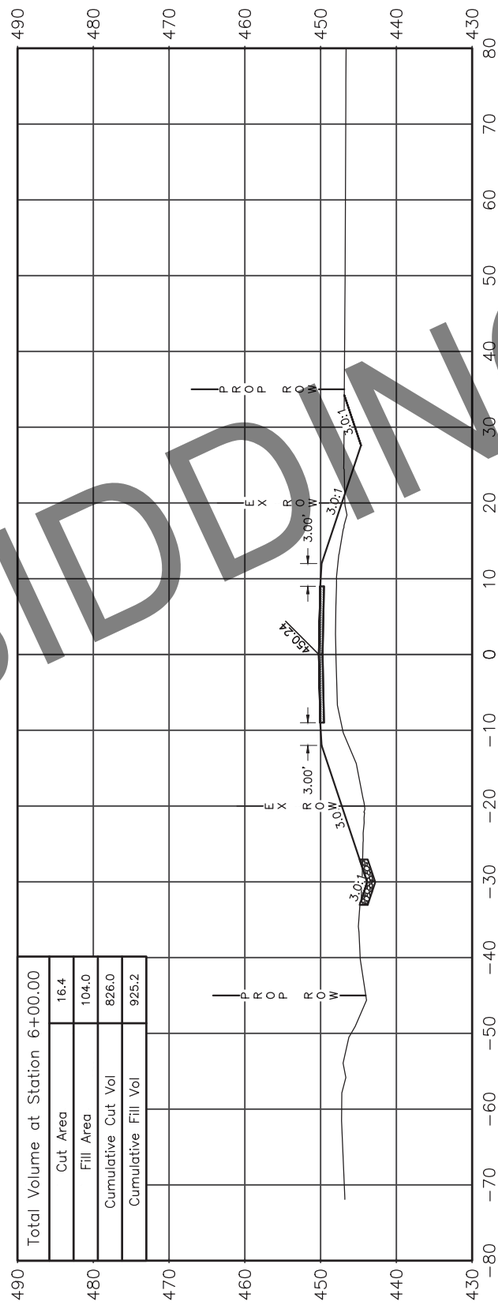
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

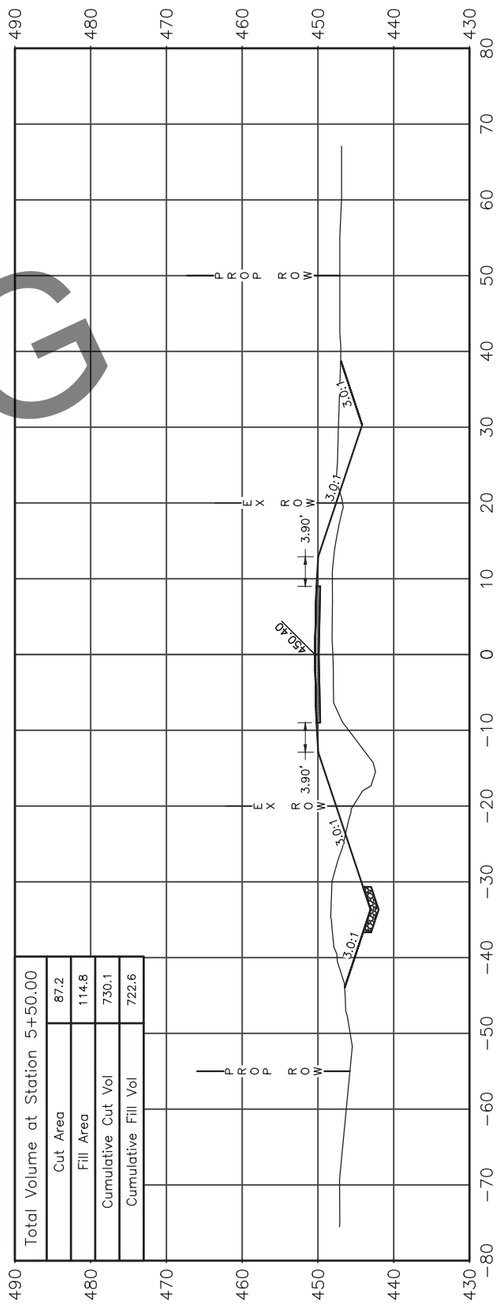
CROSS SECTIONS OF ROADWAY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	15
BONPAS ROAD DISTRICT		ILLINOIS		









NOT FOR BIDDING

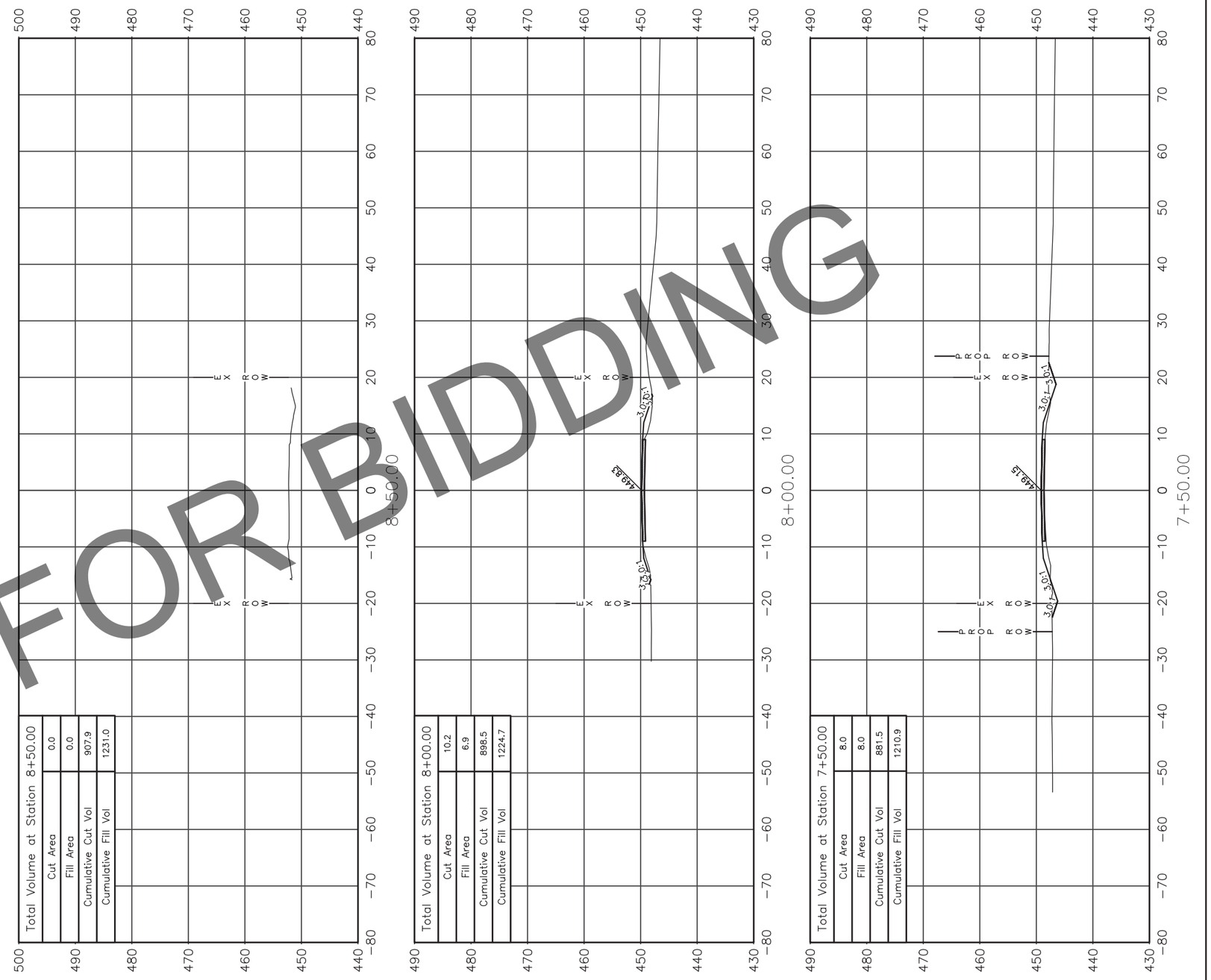
CHARLESTON ENGINEERING, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DESIGNED – BMB	REVISED –
DRAWN – BMB	REVISED –
CHECKED – 5-19-2026	REVISED –
DATE – 2-17-2026	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS OF ROADWAY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 293	23-01131-00-BR	RICHLAND	17	16
BONPAS ROAD DISTRICT		ILLINOIS		



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CHARLESTON ENGINEERING, INC. CONSULTING ENGINEERS - LAND SURVEYORS 105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450 P.O. BOX 397 (618) 392-0736 ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513	DESIGNED – BMB DRAWN – BMB CHECKED – 5-19-2026 DATE – 2-17-2026	REVISED – REVISED – REVISED – REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS OF ROADWAY	ROUTE TR 293	SECTION 23-01131-00-BR	COUNTY RICHLAND	TOTAL SHEETS 17	SHEET NO. 17
					BONPAS ROAD DISTRICT		ILLINOIS		