ADDENDUM NO. 1

JAY COUNTY BRIDGE NO. 139 ON SEVENTH STREET OVER SALAMONIE RIVER JAY COUNTY, INDIANA

- 1. The <u>TABLE OF CONTENTS</u> of the Contract Documents has been revised to show Part 7 Utilities for pages 112 to 143 (see attached).
- 2. The <u>NOTICE TO BIDDERS</u> on page 1 of the Contract Documents has been revised to allow bids to be submitted until 8:45 am EDT (see attached).
- 3. The <u>ITEMIZED PROPOSAL</u> Items 7, 8, and 21 have been revised on page 12 of the Contract Documents to reflect plan revisions associated with the revisions to the sidewalk and curb (see attached).
- The <u>PART 7 UTILITIES</u> section of the Contract Documents has been revised to include an additional 6 pages for the Brightspeed no-conflict workplan (see attached).
- 5. The <u>FINAL TRACINGS PLAN</u> sheets 2, 3, 10, 25, 29, 31-37 have been revised for revisions to the concrete curb over the bridge and sidewalk compacted aggregate thickness and associated earthwork quantities (see attached).
- 6. The <u>EXISTING PLANS</u> have been added to the Contract Documents (see attached).
- 7. Cable clamps as specified by SP30 CABLE CLAMPS are located in the Final Tracings Plans on Sheet 23.
- 8. The Substantial Completion Date is 12/5/2025. It is recognized that asphalt plants will be closed in December. It is recommended to all Bidders to consider that some incidental work may be scheduled later in the construction schedule to account for asphalt plant closures.
- 9. A list of the current plan holders is provided on the plan room website under the "Plan Holders" tab.

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BRIDGE NO. 139 – SEVENTH STREET OVER SALAMONIE RIVER JAY COUNTY, INDIANA

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Notice to Bidders



NOTICE TO BIDDERS

Sealed bids will be received by the Board of Commissioners of Jay County at the Jay County Courthouse, Auditor's Office, 120 North Court Street #2, Portland, Indiana 47371 until <u>Monday</u> <u>April 14, 2025 at 8:45 a.m. EDT</u> for the following:

Rehabilitation of Bridge No. 139 On Seventh Street Over Salamonie River Jay County, Indiana

Bids will be publicly opened and read aloud at a commissioners meeting in the Jay County Courthouse on April 14, 2025 at 9:00 a.m. EDT. Bids received after Monday April 14, 2025 at 8:45 a.m. EDT will be returned unopened. Bids received by facsimile machine will not be accepted. Only bids from those Contractors who are registered on the Indiana Department of Transportation's current listing of Prequalified Contractors for this type of work included in this project will be considered.

Construction shall be in accordance with the bidding documents which are on file with the County Highway Department. Said documents may be examined by prospective bidders at the following locations:

Jay County Highway Department 1035 East 200 North Portland, Indiana 47371 Egis BLN USA, Inc. 8320 Craig Street Indianapolis, Indiana 46250

Bidding documents are available for purchase and/or viewing through the Egis BLN USA, Inc. online plan room at <u>http://www.blnplanroom.com</u> beginning at 12:00 p.m. EDT on Wednesday March 19, 2025. Further information will be posted there on the Job Details page of the job posting. Order options and prices will be listed on the order page. Partial sets will not be available. Addenda will be posted to the plan room for downloading and a notification of each addendum will be emailed from the plan room to each plan holder.

Bid Documents: All bids shall be accompanied by (1) Bid Form included in the bidding documents (2) completed Form 96 (Ind. State Board of Accounts - Rev.) with required attachments (3) Non-discrimination affidavit as required by the laws of the State of Indiana, and (4) Bid security, as described below (5) Other bidding documents as described in the instructions to bidders.

Bid Security: Bid Security in the amount of five percent (5%) of the Bid shall accompany each Bid. Bid Security may be in the form of a Bid Bond (A-310), certified check or cashier's check. If the Bidder withdraws a bid within sixty (60) days after the opening date, without consent of the Owner or fails to execute a satisfactory contract within ten (10) days after notice of acceptance, the Owner may declare the Bid deposit forfeited as liquidated damages.

Bonds: The successful Bidder will be required to furnish Performance and Payment Bonds for 100% of the Contract Sum.

The Owner reserves the right to accept or reject any Bid and to waive any irregularities in the bidding. All bids may be held for a period not to exceed sixty (60) days, or as otherwise stated in the Contract Documents before awarding the contract.

Jay County is an Equal Opportunity Employer in accordance with I.C. 22-9-1-10 and shall not permit discrimination against any employee or applicant for employment to be employed in the performance of the contract, with respect to his or her hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment, because of his race, religion, color, sex, disability, national origin, or ancestry.

All out-of-state corporations must have a certificate of authority to do business in the State. Application forms may be obtained by contacting the Secretary of State, State of Indiana, Statehouse, Indianapolis, Indiana 46204.

Chad Aker, Duane Monroe, Doug Horn Jay County Board of Commissioners

Itemized Proposal



ITEMIZED PROPOSAL JAY COUNTY BRIDGE NO. 139 SEVENTH STREET OVER SALAMONIE RIVER JAY COUNTY, INDIANA

	ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	1	Construction Engineering	1	LSUM		
	2	Inspection Hole, Deeper than 3 ft	1	EACH		
	3	Mobilization and Demobilization	1	LSUM		
	4	Clearing Right-of-Way	1	LSUM		
	5	Pavement Removal	60	SYS		
	6	Present Structure, Remove Portions, Structure No. 1	1	LSUM		
*	7	Excavation, Common	<mark>166</mark>	CYS		
*	8	Borrow	<mark>430</mark>	CYS		
	9	Sediment, Remove	10	CYS		
	10	Temporary Mulch	1	TON		
	11	Filter Sock	1057	LFT		
	12	Manufactured Surface Protection Product	1191	SYS		
	13	Temporary Seed	42	LBS		
	14	Mobilization and Demobilization for Surface Stabilization	1	EACH		
	15	Excavation, Foundation, Unclassified	18	CYS		
	16	Subgrade Treatment, Type III	175	SYS		
	17	Subgrade Treatment, Type IC	290	SYS		
	18	Aggregate for End Bent Backfill	14	CYS		
	19	Geotextile for Pavement Type 2B	138	SYS		
	20	Compacted Aggregate, No. 2	10	CYS		
	21	Compacted Aggregate, No. 53	<mark>41</mark>	CYS		
	22	Subbase for PCCP	36	CYS		
	23	Compacted Aggregate, No. 53	138	TON		
	24	Widening with HMA, Type B	54	TON		
	25	Milling, Transition	767	SYS		
	26	QC/QA-HMA, 3, 58S, Surface, 9.5 mm	92	TON		
	27	QC/QA-HMA, 3, 58S, Intermediate, 19.0 mm	109	TON		
	28	QC/QA-HMA, 3, 58S, Base, 25.0 mm	84	TON		
	29	Joint Adhesive, Surface	416	LFT		
	30	Joint Adhesive, Intermediate	416	LFT		
	31	Asphalt for Tack Coat	2111	SYS		
	32	Guardrail, Remove	560	LFT		
	33	Hand Dig Guardrail Post Holes	1	EACH		

Utilities



UTILITIES

~ INDEX TO THE ~ UTILITIES

Description

AMERICAN ELECTRIC POWER DISTRIBUTION WORK PLAN

AMERICAN ELECTRIC POWER TRANSMISSION WORK PLAN

COMCAST WORK PLAN

PORTLAND WASTEWATER WORK PLAN

BRIGHTSPEED WORK PLAN

Date: 3/24/2025

Subject:

Utility Relocation Work Plan for:	Brightspeed
Facility Type:	Communications

Section 1: General Information

A. Project Information

1.	Route Number:	7 th St.
2.	Location:	250' west of the Salamonie River to 375'
		west of the Salamonie River
3.	Work Type:	Superstructure Replacement
4.	Letting Date:	2/5/2025
5.	Date Work Plan Needed	8/9/2024
6.	Target Date for Utility to be out of conflict with Project	Enter Target Date
а	Intermediate Phase	N/A

B. Utility Designated Contact – Information

1.	Designated Contact Name:	Eric Flory
2.	Office telephone:	NA
3.	Mobile telephone:	419-576-7089
4.	Email address:	eric.flory@Brightspeed.com
5.	Agency name	Brightspeed
6.	Address:	50 N Jackson ST
7.	City, State, Zip Code:	Franklin, IN 46131
8.	Construction Emergency Contact:	
	Name:	Chase Wise
	Number:	980-376-1448

C. By signing here, the Utility has determined to the best of their ability that they do not have facilities within the project area:

Signature of Utility Representative

Print Name

Date

Note: A signature by the utility representative at item "(C)" fulfills the requirement to complete the rest of this form and affirms their contact information above is correct

D. Utility Coordinator Contact Information

1.	Utility Coordinator Name:	Gregory Broz
2.	Office Telephone:	317-806-4339
3.	Mobile Telephone:	317-383-1196
4.	Email Address:	gregory.broz@egis-group.com
5.	Agency Name:	Egis Group (formerly BLN)
6.	Address:	8320 Craig St
7.	City, State, Zip Code	Indianapolis, IN 46250

Section 2: A narrative description of existing facilities and any facility relocation that will be required.

A. Describe what types of existing active and inactive facilities are present.

BRIGHTSPEED IS AERIAL ON THE SOUTH SIDE OF THE ROAD. ATTACHED TO THE POWER POLE. BRIGHTSPEED IS ONE OF THE LOWER CABLES

- B. Describe the location of existing active and inactive facilities.
- C. Describe what will be done with existing active and inactive facilities.

Brightspeed will remain aerial on the south side of the estructure.

- D. Describe the details of the proposed new facilities.
- E. Describe the proposed location of the new facilities.
- F. By signing here, the Utility has determined to the best of their ability that they have facilities within the project area and the facilities are not in conflict with the project based upon the plans received on < Enter Date Received Plans>

Eríc M Flory

Signature of Utility Representative

<u>Eric M Flory</u> Print Name <u>3/24/2025</u> Date

Note: A signature by the utility representative at item "(F)" fulfills the requirement to complete the rest of this form and

affirms their contact information above is correct.

<u>Section 3</u>: A statement whether the facility relocation is or is not dependent on the acquisition of additional property interests with a description of that work.

<u>Section 4:</u> A statement whether the utility is or is not willing to allow the project contractor to do the required work as part of the highway contract.

<u>Section 5</u>: From the date the work plan is approved by both parties; please provide the Utility's preconstruction scheduling information.

Α.	The expected lead time in calendar days to obtain permits:	Enter Total Days
В.	The expected lead time in calendar days to obtain materials:	Enter Total Days
C.	The expected lead time in calendar days to schedule work crews:	Enter Total Days
	The expected lead time in calendar days to obtain new property	Enter Dave
D.	interests:	Enter Days
E	The earliest date when the utility could begin to implement the pre-	Entor Data
⊑.	construction activities of the work plan:	Enter Date
г	The total number of calendar days for pre-construction activities:	Enter Total Davis
г.	(accounting for concurrent activities)	Enter Total Days

<u>Section 6</u>: The Utility Construction Scheduling Information.

- A. A statement whether the facility relocation is or is not dependent on work to be done by another utility with a description of that work.
 - 1. Utility A, with a description of the required work.
 - 2. Utility B, with a description of the required work.
 - 3. Utility C, with a description of the required work.
- B. A statement whether the facility relocation is or is not dependent on work to be done by the project owner or the project's contractor with a description of that work.
 - 1. Work item A
 - 2. Work item B
 - 3. Work item C
- C. How many calendar days after the events identified in Sec 6 A and B are completed can the utility begin construction: Enter Total Days
- D. The number of calendar days to complete the relocation work: Enter Total Relocation Days

<u>Section 7</u>: A drawing of sufficient detail with station, offset, elevations, and scale to show the proposed location of the facility relocation, which takes precedence over the narrative description of the work, needs to be on the construction drawings. Plans must be attached to this Work Plan Document.

<u>Section 8</u>: For each work plan the utility shall include a cost estimate for the facility relocation. For reimbursable work the estimate will identify betterment and salvage which is not reimbursable.

<u>Section 9</u>: For work the utility is entitled to be compensated by the Project Owner, the work plan shall include documentation of property interests and compensable land rights.

<u>Section 10</u>: The implementation of this approved work plan is dependent upon the issuance of: (a notice to proceed will be provided when items in Section 6 are accomplished)

Items Completed	Yes	Not
		Applicable
An executed reimbursement agreement with Project Owner:		\square

(Note: Double-click on box in Yes or NA to mark it with an "X")

Signature of Utility Representative

Date

Utility Representative Name Printed

City/County use only below this point ------ City/County use only below this point

Brightspeed

City/County use only below this point ------ City/County use only below this point

The following sections are to be used by City/County personnel to review the utility relocation work plan.

Section 11: The City/County shall review the work plan to ensure that it:

Description	Yes	No	N/A	Utility
				Coordinator
				Initials
(1.a) is compatible with permit requirements			\boxtimes	GJB
(1.b) is compatible with the project plans	\boxtimes			GJB
(1.c) is compatible with the construction schedule			\square	GJB
(1.d) is compatible with other utility relocation work plans			\boxtimes	GJB
(2.a) has reasonable relocation scheme			\boxtimes	GJB
(2.b) has a reasonable cost for compensable work			\square	GJB

(**Note**: Double-click on box under Yes or N/A to mark it with an "X") <u>Comments on any sections (1.a - 2.b) that were marked No:</u>

Ina

Utility Coordinator Signature

3/24/2025 Date

Gregory J. Broz Utility Coordinator Name Printed

Section 12: Approved Work Plan.

I have reviewed the work plan and found it acceptable.

Rym Whilehal

Project Manager Signature

3/24/2025

Date

Ryan Whelchel

Project Manager Name Printed

Final Tracings Plan Revisions



UTILITIES

AMERICAN ELECTRIC POWER DISTRIBUTION CITY OF PORTLAND WATER 3514 Landin Rd. New Haven, IN 43054 Attn: Thomas McDonough Ph: 260-408-3447 Email: tamcdonough@aep.com

AMERICAN ELECTRIC POWER TRANSMISSION 8600 Smiths Mill Rd. New Albany, OH 43054 Attn: Josh Adams Ph: 614-933-2297 Email: tl_publicprojects@aep.com

BRIGHTSPEED 110 N Chauncey St. Columbia City, IN 46725 Attn: Max Downey Ph: 317-927-4684 Email: Maxwell.K.Downey@brightspeed.com

COMCAST 720 Taylor St. Fort Wayne, IN 46802 Attn: William Fishburn Ph: 260-410-3504 Email: William_Fishburn@comcast.com

PORTLAND WASTEWATER 205 S Wayne St. Portland, IN 47372 Attn: Doug Jackson Ph: 260-729-1416 Email: djackson@thecityofportland.net 205 S Wayne St. Portland, IN 47372 Attn: Brad Clayton Ph: 260-726-4525 Email: bclayton@thecityofportland.net



Know what's **belo**W. **Call** before you dig.

INDIANA UNDERGROUND 1-800-382-5544 OR CALL 811 24 HOURS A DAY 7 DAYS A WEEK

		REVISIONS
SHEET NO.	DATE	REVISED
3-A, 10A, 31A-37A	4/9/25	Sidewalk Comp. Agg. Thickness and associated earthwork quantities
25A & 29A	4/9/25	Curb Geometry

		INDEX	
SHEET NO.	SHEET DESIGNATION	SUBJECT	
1		TITLE SHEET	
2A		INDEX SHEET	
3-A		TYPICAL CROSS SECTIONS	
4		PLAT NO.1	
5		MAINTENANCE OF TRAFFIC	
6		PLAN & PROFILE - LINE "PR-A"	
7		CONSTRUCTION LAYOUT DETAILS	
8		GEOMETRIC TIE DETAILS	
9		EROSION CONTROL PLAN - LINE "PR-A"	
10A	C1	LAYOUT - LINE "PR-A"	
11 - 13	C2 - C4	GENERAL PLAN	
14 - 15	C5 - C6	END BENT DETAILS	
16	C7	FRAMING PLAN	
17	C8	BEAM DETAILS	
18	C9	BEARING ASSEMBLY DETAILS	
19 - 24	C10 - C15	SUPERSTRUCTURE DETAILS	
25-A	C16	BRIDGE RAILING DETAILS	
26 - 27	C17 - C18	SCREEDS	
28 - 29A	C19 - C20	APPROACH SLAB DETAILS	
30		BRIDGE SUMMARY OF QUANTITIES	
31A		ROAD SUMMARY OF QUANTITIES	
32A - 37A		CROSS SECTIONS - LINE "PR-A"	



DESIGNED: RTW DESIGNED: RTW DESIGNED: NW CHECKED: SMS CHECKED: RTW	HOMAS WHEN CHIEF	RECOMMENDED FOR APPROVAL	Rym W.	Hulchel DESIGN ENGINEER	3/19/2025 DATE	JAY C
	P: PE123002/1	DESIGNED: <u>RTW</u>		DRAWN: <u>NW</u>		IN

	HORIZONTAL SCALE	BRI	DGE F	ILE
COUNTY ΙΝΟΙΔΝΑ	N/A	J	AY 13	9
	VERTICAL SCALE	DES	IGNAT	TON
	N/A			
	DRAWING NO.	9	HEET	S
		2A	of	37
	CONTRACT	Р	ROJEC	Т
		()9102 [,]	4



I Curb Geometry	HOMAS WHE REGISTERED CHER	RECOMMENDED FOR APPROVAL	Rym W.	Hulchel DESIGN ENGINEER	3/19/2025 DATE	JAY (
	PE123002/1	DESIGNED: LLS		DRAWN: LLG		BRIDG
	S/ONAL ENUM	CHECKED: <u>RTW</u>		CHECKED: RTW		

BILL OF MATERIALS

BRIDGE RAILING

EPOXY	COATED RE	INFORCING	BARS												
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)												
401dE	432	3'-11"													
402dE	286	2'-0"													
#4E	10	22'-10"													
#4E	#4E 2 10'-3" #4E 2 4'-9"														
#4E	#4E 2 10'-3" #4E 2 4'-9"														
	Total #4E		1686												
Total Epoxy (Coated Reinfor	cing Bars	1686												
	CONC	RETE													
Concrete Clas	ss "C" in Super	rstructure													
Pour No.8	3		2.2 Cys.												
Pour No.9)		0.6 Cys.												
Total Concret	te Class "C" in		2.8 Cys.												
			1												
	MISCELL	ANEOUS													
Railing, Conc	rete, PF-1, Mo	dified	287 Lft.												
Railing, Steel	, PF-1		306 Lft.												
Field Drilled H	lole		261 Ea.												
Surface Seal	(Est. Quantity))	1386 Sft.												
			·												

402dE x 2'-0"

- For General Notes, Design Data, Typical Sections, see Dwgs.C4. For Deck Plan, see Dwg.C10.
- For Type "A" Constr. Joint, see Std.Dwg.No.E702-CJTA-01.
- For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
- "E" denotes Epoxy Coated Reinforcing Steel.
- * Indicates reinforcing to be billed with Superstructure.

	HORIZONTAL SCALE	BRI	DGE F	ILE
	AS NOTED	J	AY 13	9
	VERTICAL SCALE	DES	(GNAT	ION
	AS NOTED			
	DRAWING NO.	S	HEETS	5
E PATI ING DETATI	C16 of C20	25-A	of	37
	CONTRACT	Pi	ROJEC	Т
		C	91024	1

BILL OF MATERIALS

APPROACH SLAB BENT NO.1

OXY	COATED RE	INFORCING	BARS												
or (No. of BARS	LENGTH	WEIGHT (Lbs)												
	32	3'-6"													
	64	4'-4"													
	60	20'-9"													
	16	4'-7"													
	45	20'-2"													
	42	29'-4"													
	10	15'-6"													
	Total #5E 4175														
	Total #5E 4175 37 2'-0"														
	3/ 2	2-0 17'-3"													
	2	17 -5 0'-11"													
	Total #4E	0-11	73												
			_												
m Br	. Railing Trans	ition, TPF-1	1460												
oxy (Coated Reinford	cing Bars	5708												
	CONC	RETE													
Clas	s "A" in Super	structure	0.8 Cys.												
	MISCELL	ANEOUS													
ed Co	onc. Br. Approa	ach, 10"	72 Sys.												
dge	Railing Transit	ion, TPF-1	2 Ea.												
led ⊦	lole in Concret	e	37 Ea.												
for F	РССР		18 Cys.												
e for	Pavement, Ty	pe 2B	69 Sys.												
inal (Grooving		66 Sys.												
Seal	(Est. Quantity)		258 Sft.												

BILL OF MATERIALS

APPROACH SLAB BENT NO.4

EPOXY	COATED RE	INFORCING	BARS											
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)											
592E	32	3'-6"												
593E	64	4'-4"												
594E	60	20'-9"												
#5E	16	4'-7"												
#5E	45	20'-2"												
#5E	42	29'-4"												
#5E 10 15'-6" Total #5E 4175														
Total #5E 4175														
401E	37	2'-0"												
#4E	2	11'-9"												
#4E	2	6'-3"												
	Total #4E		73											
Total from Br	. Railing Trans	ition, TPF-1	1460											
		·												
Total Epoxy C	Coated Reinford	cing Bars	5708											
	CONC	RETE												
Concrete Clas	s "A" in Super	structure	0.8 Cys.											
	MISCELL	ANEOUS												
Reinforced Co	onc. Br. Approa	ach, 10"	72 Sys.											
Conc. Bridge	Railing Transit	ion, TPF-1	2 Ea.											
Field Drilled H	lole in Concret	e	37 Ea.											
Subbase for F	PCCP		18 Cys.											
Geotextile for	Pavement, Ty	pe 2B	69 Sys.											
Longitudinal (Grooving		66 Sys.											
Surface Seal	(Est. Quantity)		258 Sft.											

Notes:

For General Notes, see Dwg.C4.

For locations of Sections A-A, B-B, C-C & additional details, see Dwg.C19.

For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

For additional Pavement Ledge Details, see Std.Dwg.No.E609-RCBA-04. For Type I-A Joint, see Std.Dwg.No.E609-BRJT-01.

For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.

"E" denotes Epoxy Coated Reinforcing Steel.

The Concrete for Curbs on the Approach Slabs are billed with the

Bridge Railing and included in Concrete Class "C" in Superstructure.

	HORIZONTAL SCALE	BRI	DGE F	ILE	
COUNTY ΙΝΟΙΔΝΑ	AS NOTED	J	AY 13	9	
	VERTICAL SCALE	DES	IGNAT	TON	
	AS NOTED				
	DRAWING NO.	S	HEET	S	
ACH SLAB DETAILS	C20 of C20	29A	of	37	
	CONTRACT	P	ROJEC	T	
		()91024	4	

																I	PAVEI	MEN	it qua	ANTI	ITIES /	AND	APPF	Roach	H TABL	E																		
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	ISTANCE BEYOND	K/W/LINE OMPACTED	GGREGATE BASE NOA	URFACE ND R/W MH	E / LINE ADDA	G	RADE	EXC	AVATION	SURFACE WH	FOR APP Gawyalui LBS PER	ROACHE	SURFACE G	3, 58S BT 9.5MM	DO/PD SURFACE 2, 70 9.5MM 1NTERMD 2, 70 10 10 10 10 10 10 10 10 10 10 10 10 10	3, 585 19.0MM	FOR RO 5, 76 19.0MM BG	ADS S82 °C S PER S	D BASE 5, 64	AS MATE 52 ⁰ 0WW	PHALT RIAL FOR	IOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	WIDENING WITH HMA, TYPE B		COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH	COMPA AGGRE NO. SHOUL DEP	CTED GATE 53 DERS TH	MILLING TRANSITION	SUBGRADE TREATMENT TYPE IC	SUBGRADE TREATMENT, TYPF III	SIDEWALK, CONCRETE	CURB, CONCRETE, MODIFIED	NSPECTION HOLE	SREATER THAN 3' DEEP SIGN, GOUND	AOUNTED, RESET	PAVEMENT REMOVAL	 REMA	RKS	
	Image: Horizon of the state of the stat																																											
Line "PR-A"																																												
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Sta.61+00.00 to Sta.62+25.00	Incidental																	26							306	125	125	25	\geq	12 8	45		278		65	70	125	5						
Sta.62+25.00 to Sta.62+68.50	Mainline																	6		9		22			188	23	23			3 2	く 9			74		13	23				30	 		
Sta.64+12.00 to Sta.65+00.00	Mainline																-	15		26		62			549	68	68		2	7 5) 31			216		38	68				30			
Sta.65+00.00 to Sta.67+00.00	Incidental																4	45		74				1	1068	200	200	29	(19 13	53		489		110	112	200)						
Sta.64+35.00	Mainline																												$\overline{\boldsymbol{\zeta}}$)											 		
Sta.64+96.16	Mainline																												$(\square$		\sum													
TOTALS																		92		109		84			2111	416	416	54	$(\mid$	41 _28)138		767	290	175	233	416	5	1 1		60			
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STRUCTURE NUMBER	LOCATION	LEFT CROSS	SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	COVER	FLOW LI UP STREAM	DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	Hq	BACKFILL METHOD	STRI ICTI IRF	BACKFILL	REVETMENT	CONCRETE, CLASS A, FOR STRUCTURES	GEOTEXTILES FOR RIPRAP, TVDF 1A	PIPE END SECTION	GRATED BOX END SECTION	SAFETY METAL END SECTION	CONNECT TO STR.	REMARKS
10				4				ГІ	ELEV.	LLLV.					ITPL	C13	10115		515		TTPE SLOPE	SIZE SLOPE	LA.	6" End Pont Drain Ding
10	62+67.75 PR-A	X	6	L		46																		6 End Bent Drain Pipe
11	64+12.75 "PR-A"	X	6	1		48																		6" End Bent Drain Pipe

										GUA	RDRAI	L SUMI	MARY	TABLE												
	LOCATION			N	MGS W-BEA		AIL LENGT	-H					~		z	CURVED W-BEAM	GUARDRAIL SYSTEM						1	10NUMENT T	ABLE	
			OST . . SPA.	POST V. SPA.	CED . SPA.	CED V. SPA.	ED AT PA.	RAIL TYPE 1	RAIL -YPE 2	리빋	DRAIL TON JRB	DRAIL TON CURB	BLE NCHOF	AIL MENT DS	DRAIL NSITIO			AIL /E	AIL	TOR	ARDRA JLES		LOCATION	OFFSET	ТҮРЕ	BENCHMARK POST
				S II	3 IN	EA 5 II	RVE T. S	ARD N, J	ARD N, J	DRA	JAR ISIT H Cl	UTIN UTIN	CAI AL A	RDR EAT	L RAI	TERMINAL	CONNECTOR	MOV	RDR ESE	PAC		REMARKS	LINE "PR-A"			
FROM STATION	TO STATION			DAF			3 ^L	GU/ SPA	GU/ SPA	JARI ARE	s gu RAN VITH	S GU RAN THC	1GS 11N/	T		SYSTEM	SYSTEM	REI	RE		DIG		Sta 61+00.00 "PP-4"		B	
			TAN 6 F	3 FI	00 9 0	3 FI	₫	NG S	SB	E G	MG ^M T >	т МG ^T	ERV		MG.					F			Sta.62+48.50 "PR-A"	CL	B	
			AT S'	ATS	AT	ATC	Ч	ΓO	ΓÕΖ			_	F		= =						HAI		Sta.62+63.00 "PR-A"	19.50 Lt.		1
			IFT	IFT	IFT	IFT	I FT	FACH	FACH		FACH	FACH	FACH	FACH	FACH	TYPE FACH	TYPE FACH	IFT	IFT	FACH	FACH		Sta.64+32.00 "PR-A"	CL	В	
61+62.84 "PR-A"	62+53.46 "PR-A"	X										1		1				53					Sta.65+94.15 "PR-A"	CL	В	
61+50 34 "PR-A"	62+53.46 "PR-A"		12 5									1		1				115					Sta.67+00.00 "PR-A"	CL	В	
64+27.05 "PR-A"	66+48.93 "PR-A"		131.25									1		1				240			1		TOTAL		5	1
64+27.05 "PR-A"	65+48.93 "PR-A"		31.25									1		1				152								
TO	ΓALS		175									4		4				560			1					

	IEMPORARY SILT FENCE PRORARY SILT FENCE DRAINAGE BARRIER AT DRAINAGE BARRIER AT SWALE TEMPORARY INLET PROTECTION EMPORARY SLOPE DRAIN CHECK DAM CHECK DAM MODIFIED MODIFIED MODIFIED MODARY FILTER STONE SEDIMENT, REMOVE MPORARY FILTER STONE MPORARY FILTER STONE NO.2 STONE NO.2 STONE TEMPORARY MULCH TEMPORARY MULCH TEMPORARY MULCH TTMPORARY MULCH TTMPO																	PERM	ANENT E	ROSIO	N CON	TROL	SUMM	ARY TA	ABLE													
LOCATION	APORARY SILT FENCE AINAGE BARRIER AT	SWALE TEMPORARY INLET PROTECTION	PORARY SLOPE DRAIN	CHECK DAM	CHECK DAM	EVETMENT RIPRAP IPORARY CHECK DAM, EVETMENT RIPRAP,	MODIFIED IPORARY CHECK DAM, TRANSVERSABLE	PORARY FILTER BERM	MPORARY SEDIMENT TRAP	IPORARY GEOTEXTILE	PORARY FILTER SOCK	ORARY FILTER STONE	EDIMENT, REMOVE	NO.2 STONE	EMPORARY MULCH	TEMPORARY SEED MIXTURE	EMPORARY MULCH STABILIZATION, TYPE	UFACTURED SURFACE OTECTION PRODUCT	FROM ST	ATION	LOCATION TO STATION	LEFT MEDIAN	RIGHT	PAVEMENT ACTUAL LENGTH	CUT OFF WALLS (8 FT EQUIV. LENGTH EACH)	RIPRAP REVETMENT	RIPRAP, UNIFORM	Geotextile for Riprap Type 1a	SODDING AT BRIDGE CONE	DING TOTAL SODDING	NURSERY SODDING FOR LAWNS	SEED MIXTURE FLOODPLAIN	MULCHING MATERIAL	MOB. & DEMOB. FOR SEEDING	EROSION CONTROL BLANKETS	MULCHED SEEDING, TYPE U	WATER	COMPACTED AGGREGATE, NO.2
			≥ II NO.	.REQ'D.	SPA.		TEN	LEV I	#	TEN	LEV	LEM	0)					PR							EACH	TONS	TONS	SYS	SYS	SYS	SYS	LBS	TONS	EACH	SYS	SYS	KGAL	
STATION TO STATION	LFT LF	T EACH	LFT E	EACH	LFT T		LFT	LFT	TON	SYS	LFT	TON	CYS	TON	TON	LBS	SYS	SYS	Sta.61+00.0	0 "PR-A"	Sta.62+68.50 "PR-A	λ" X				10		25	7	7	70	1	0.02		85		0.4	2
Line "PR-A"				_												-			Sta.61+00.0	00 "PR-A"	Sta.62+68.50 "PR-A	λ"	X			9		26	6	6	107	1	0.03		123		0.5	3
																			Sta.64+12.0	00 "PR-A"	Sta.67+00.00 "PR-A	λ" X				4		14	2	2		1	0.02		457	441	0.1	2
61+00.00 to 62+68.50 Lt.											333		3		0.1	4		517	Sta.64+12.0	00 "PR-A"	Sta.67+00.00 "PR-A	λ"	Х			18		43	12	12		1	0.03		337	303	0.1	3
61+00.00 to 62+68.50 Rt.											341		3		0.1	5		377																				
64+12.00 to 67+00.00 Lt.											191		2		0.4	19		112			TOTALS					41		108	27	27	177	4	0.1	1	1002	744	1.1	10
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TOTAL											1057		10		1.0	42		1191																				

4/9/2025 Revised Compacted A

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		DESIGNED: <u>RTW</u>		DRAWN: <u>NW</u>		
						RUAD SUM
	UNAL MININ	CHECKED: <u>SMS</u>		CHECKED: <u>RTW</u>		
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R/W MARKER TABLE											
Г./RT.	STATION	OFFSET (ft)	NO. REQ'D.	FLUSH MOUNT							
Lt.	20+00 "A"	30	1	Yes							
Rt.	21+00 "A"	20	1	Yes							
Rt.	21+75 "A"	35	1	Yes							
Lt.	22+25 "A"	30	1	Yes							
Lt.	22+25 "A"	40	1	Yes							
Rt.	22+75 "A"	40	1	No							
Rt.	26+00 "A"	40	1	No							
Rt.	26+50 "A"	20	1	Yes							
	TOTALS	8									

	HORIZONTAL SCALE	BRI	DGE F	ILE
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	HORIZONTAL SCALE	BRIDGE FILE
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COONTT, INDIANA	VERTICAL SCALE	DESIGNATION
	1" = 5'	
	DRAWING NO.	SHEETS
COSS SECTIONS		37A of 37
	CONTRACT	PROJECT
		091024

Existing Plan File

	INDEX	PROJECT
SHEET	DESCRIPTION	BRIDGE
1	TITLE SHEET	
2	PLAN ; PROFILE, Jay 138	
3	GENERAL PLAN & DETAILS	
4	PLAN & PROFILE, Jay 139	DRIDGE
5	GENERAL PLAN ; DETAILS	
6	CONSTRUCTION DETAILS	
7	PLAN PROFILE, JAY 502	
8	GENERAL PLAN	
9	SPECIAL PROVISIONS	BRIDGE
10	• •	

Scola: Milas

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1. WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND REPORT ANY ERRORS OR DISCREPANCIES TO THE ENGINEER AND ASSUME RESPONSIBILITY FOR THEIR CONDITIONS AND FIT OF THE NEW PART TO THE OLD. 2. SURFACE SEAL OUTSIDE FACE OF DECK AND COPING, UNDERSIDE OF COPING, TOP AND FACE OF CURB AND SIDEWALK, TOP AND SIDES OF CONCRETE RAILING AND EXPOSED FACES OF THE ENDS OF THE ABUTMENTS AND WINGS. ESTIMATED QUANTITY = 3170 SFT. 3. BEFORE INSTALLING NEW BS-6 EXPANSION JOINT SEALS, CLEAN THE VERTICAL FACES OF THE JOINT NOTCH TO PROVIDE A SMOOTH, EVEN FINISH FOR A WATERTIGHT SEAL. 4. CONSTRUCT 18" REVETMENT RIPRAP SLOPE PROTECTION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. 5. CONCRETE CRACK REPAIR WILL BE DONE BY A QUALIFIED CONTRACTOR AND THE WORK SHALL BE COORDINATED WITH THE ENGINEER. 6. SCARIFY THE EXISTING DECK ¼" DEEP AND OVERLAY WITH LATEX BRIDGE DECK OVERLAY 1 1/2 " THICK. 7. SEE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS FOR ITEMS INCLUDED IN THIS CONTRACT. (\mathcal{E}) 22+99 'A' 22+19.0, 'A' E -10+00, 'S-3-A'

GENERAL NOTES

Note: Where item (E) is shown, the Milling shall be Full width in Direction Noted. Lengths as shown on sheet 7.

4" Surface Milling

12" Bridge Deck

Overlay

12" Min. (Typ), Concrete Removal for Expansion Joint

Clean faces of joint notch

to provide a smooth straight finish for BS-6 Joint.

LEGEND

A REMOVE EXISTING P.S.D. AND REPLACE WITH NEW

- B 18" REVETMENT RIPRAP
- C REMOVE AND REPOUR SIDEWALK
- D CLEAN AND RESEAL JOINTS
- E SURFACE MILLING, BITUMINOUS
- F SPECIAL CLASS A CONCRETE
- G SURFACE MILLING, CONCRETE AND 1 ½" BRIDGE DECK OVERLAY (LATEX)
- H EXPANSION JOINT, BS-6
- I CONCRETE REPAIR BY EPOXY INJECTION
- J OVERLAY DAM
- K CONCRETE REMOVAL FOR EXPANSION JOINT
- L ADJUST CASTING TO GRADE
- M I'BITUMINOUS SURFACE OVER 3". BITUMINOUS BASE AT PARK ENTRANCE

15% INDICATES ESTIMATED PERCENTAGE OF PARTIAL DEPTH BRIDGE DECK PATCHING

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SPECIAL PROVISIONS COUNTY BRIDGE NOS. 138, 139, AND 502 JAY COUNTY, INDIANA

1. SCOPE OF WORK

The intent of these Special Provisions and Supplemental Specifications, together with the Standard Specifications and Plans, is to provide for the repairs for the following bridges:

Jay County Bridge No. 138 on Blaine Pike over the Salamonie River approximately 1 mile southwest of Portland, Indiana

Jay County Bridge No. 139 on Seventh Street over the Salamonie River in Portland, Indiana Jay County Bridge N. 502 on Wayne Street over the Salamonie River in Portland, Indiana

The work shown on the plans and presented in the specifications is for the complete repair of the various items of work presented. The amount bid for the various items shall be for the complete work. Where minor variations are encountered which required minor variations in the type of repair, minor variations in the material requirements, or additional miscellaneous hardware or other items, no additional allowance shall be made the Contractor. However, the work shall be completed as if shown on the plans or directed by these specifications. Where substantial variations are encountered, an extra work agreement shall be negotiated between the Owner and Contractor prior to commencing work on any item with such substantial variations. If the Contractor proceeds with any work without obtaining an extra work agreement, such work shall be deemed to be a minor variation.

2. CONTRACT TIME FOR COMPLETION Time being of the utmost importance, all work must be completed as follows:

Bridge No. 138 completed within 25 calendar days after closing the road. The road shall be closed no more than 12 calendar days.

Bridge No. 139 completed within 50 calendar days after closing the road. The road shall be closed no

more than 35 calendar days, and Bridge No. 502 completed within 55 calendar days after closing the road. The road shall be closed no more than 40 calendar days.

Bridge Nos. 138 and 139 can not be closed at the same time.

All work on all bridges must be completed within 120 calendar days after the date of the "Notice to

3. PRECONSTRUCTION CONFERENCE

Proceed*.

The Contractor for the project shall have a preconstruction conference after the award and prior to the start of construction. This meeting shall be held at the site or as otherwise agreed to by the Engineer. Contractor, and OWNER. The meeting is mandatory and work shall not begin prior to the meeting being held. The Engineer will take and distribute minutes of the meeting. The Contractor shall review those notes and shall in writing, within 15 days of receipt, inform the Engineer if there are errors or changes to be made. If no response is received within this time period it shall be assumed that there are no corrections and the record of the minutes shall become a part of the construction documents as are change orders, work directives, etc.

4. ROAD CLOSING & SIGNING The road is currently open to traffic.

Just prior to and during construction the road will be closed unless stated differently under "Contract Time For Completion*. Suitable barricades, barriers, and construction signing for protection of work site shall be the responsibility of the Contractor. (See Section 107.10). At all times, until completion of the project, the barricades and signs shall be maintained in proper order by the Contractor. The roads shall be closed during construction as stated under "Contract Time for Completion. The Contractor, Engineer, County Engineer, and Public Officials should agree to a road closure schedule so as to disrupt traffic and local functions the least possible. This should be done at the Preconstruction

Prior to closing the road, the Contractor shall notify the County Road Engineer, all affected school and emergency vehicle organizations, and the County Sheriff.

5. CONSTRUCTION SIGNING

This item includes 4 Type 'A' construction signs and 2 Type 'III-A' barricades for road closure. This is for the duration of the job and includes maintenance and upkeep to the satisfaction of the Engineer. Signs and barricades are to be in accordance with Standard Sheet 2A of the INDOT Standard Details. Signs and barricades will be paid separately for each bridge. However, signs can utilize overlays so the "Closed" and "Construction" can be interchanged. No additional payment will be made for this.

6. UTILITIES

Contractor shall notify all utilities prior to beginning work. Where it is necessary for utilities to be moved, this work shall be coordinated between the utility company and the Contractor to avoid delays or loss of service.

7. FIELD OFFICE A field office is not required

8. CONSTRUCTION OBSERVATION

If the Contractor fails to give the Engineer at least 24 hours notice, a \$100.00 charge will be assessed to the Contractor by the Engineer, if an inspector is available and sent to the project site. If no inspector is available then the contractor shall be delayed a minimum of 24 hours.

Construction observation shall be performed by the Engineer (AECON, Inc., 812-988-2940).

9. CONSTRUCTION STAKING

The Contractor is responsible for the construction staking of the project and shall furnish all materials and labor relating to it. This is not a pay item; the cost shall be included in the various pay items of the project. The Engineer will provide the location of control points at the outset of the project.

The Contractor shall verify all dimensions where old and new work are joined, and shall be responsible for same. Note: No materials shall be ordered until measurements are verified by the Contractor.

10. WAGE SCALE

All work under this contract shall be in accordance with prevailing wage scales by law and specifications. The current wage scale (will be forwarded when available)(is included in these specifications).

11. CONTROL OF MATERIALS

Materials certification shall be required for certain materials, as set out in Section 915. Three (3) copies of each certification shall be submitted by the Contractor to the Engineer prior to the use of the material. All certification shall be sworn to by a person having legal authority to bind the company preparing the certification, and they shall be notarized. The Engineer may order additional samples and tests, at the cost of the Contractor, of any material received on the contract for which certification has been furnished. If such test results are in disagreement with the certification, the test results shall prevail. The Engineer may suspend further acceptance of certifications from the manufacturer of the material in question. All tests of material will be made by an independent laboratory approved by the Engineer. Unless otherwise designated, the standards for materials and methods of tests of AASHTO and ASTM referred to in these specifications or elsewhere shall be the standard, interim, or tentative specifications included in the last published edition.

12. ENGINEER'S RESPONSIBILITY

The Engineer shall not be responsible for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto or the Contractor's compliance with laws, rules, regulations, ordinances, codes or orders applicable to its furnishing and performing the work. The Engineer shall not supervise, direct, or control any work.

13. REMOVAL OF PRESENT STRUCTURE (PORTIONS - BRIDGE NO. 139)

This work consists of the removal of the existing concrete railing at the ends of Bridge No. 139. The concrete railing shall be removed down to the top of the curb as shown on the plans. This includes removal of required reinforcing steel and grouting as necessary. Removal of concrete shall be in accordance with 202.03(b). All material shall be removed from the site.

The cost of this work shall be bid as lump sum, "Removal of Present Structure (Portions - Bridge No. 139)". Payment will be for all labor, materials, equipment, tools and incidental necessary to complete the work.

14. SITE WORK

This work consists of site preparation, earthwork, grading, mulched seeding disturbed areas, final clean-up and any other pay items necessary for the completion of the project. Significant amounts of earthwork, grading, and seeding are not anticipated, and this work covers preparation and final finishing to leave each site graded to drain in a neat appearance. If this is not a bid item, the costs will be covered in other bid items. If covered by a bid item, the cost of this work will be bid and paid as a lump sum for all labor, materials, equipment, tools and incidentals necessary to complete the work.

15. WORKING OUTSIDE OF RIGHT-OF-WAY The Contractor shall not work off the right-of-way including, but not limited to, the excavation of material, grading, clearing, etc. without providing the Engineer written approval from the property owner. Such approval shall clearly state the nature of the work which may be performed off of the right-of-way.

16. SURFACE MILLING, CONCRETE

This work shall be in accordance with the applicable parts of Section 722, IDOH Specifications.

17. SURFACE MILLING, BITUMINOUS This work shall be in accordance with the applicable parts of Section 202, IDOH Specifications, and as shown on the plans. The cost of saw cutting at the ends of the surface milling and cleaning and disposing of the surface milled material is included in this item.

18. PARTIAL DEPTH BRIDGE DECK PATCHING This work consists of removing unsound concrete and patching with special class 'A' concrete or latex modified concrete. All work shall be in accordance with the applicable parts of Section 722.

19. BRIDGE DECK OVERLY (LATEX) This work shall be in accordance with IDOH Specifications, Section 722.

20. FINISHING MACHINE

21. DECK FINISH The deck shall be finished with a tined surface as per IDOH Specification, Section 722.09.

22. REINFORCED CONCRETE PAVEMENT, 10* This work consists of the removing of asphalt and base and the repouring of reinforced Concrete Pavement 10" thick. All work shall conform with applicable parts of Section 500 and 610. Each approach shall be poured as one pour and may be hand finished as per Section 501.15. Final finishing shall be Method 2 - Tining.

This work will be paid for at the contract unit price per square yard. Payment will be full compensation for removing the asphalt and base, and shall include all labor, materials, equipment, tools, and incidentals necessary to complete this work.

23. OPENING THE STRUCTURE TO TRAFFIC The structure may not be opened to traffic for at least 5 days from the placement of latex concrete, or until the concrete has attained a cylinder strength of 4,000 psi, whichever comes first. The Contractor's equipment is considered traffic. Opening of the project to public usage shall have prior approval of the engineer.

24. CONCRETE REMOVAL FOR EXPANSION JOINT This work shall consist of the renxoval of concrete in areas at or near new bridge expansion joints in accordance with the requirements herein and in reasonably close conformance with the lines, grades, and at the locations shown on the plans, or as directed. Removal of concrete shall be in accordance with 202.03(b). This work will be measured by the square foot. This work will be paid for at the contract unit price per square foot of top surface area for concrete removal for expansion joint.

25. OVERLAY DAMS

new concrete at expansion joints at the locations shown on the plans or as otherwise directed.

The existing concrete shall be cut out, and the area shall be thoroughly cleaned of all loose concrete, dirt, or other foreign materials to a depth and over an area necessary to produce a firm and solid connecting surface for the adherence of the new concrete. Where the bond between existing concrete and reinforcing steel has been destroyed, the concrete adjacent to the bar shall be removed by handchipping to a depth of a minimum of one inch around the entire periphery of the bar so exposed. Care shall be taken to prevent cutting or otherwise damaging exposed reinforcing steel.

Power driven hand tools for removal by handchipping, as set out above, will be permitted. Pneumatic hammers with a maximum weight of 69 pounds may be used for the tops of mudwalls. If at any time during the removal process, the tools or methods being used appear to cause damage such as cracks, spalling on the concrete that is to remain, the work shall cease immediately and shall not resume until the Engineer is assured the tools or methods being used will not cause further damage.

Before applying the concrete, the surface to be repaired, the reinforcing steel, and the concrete under and around the steel shall be thoroughly cleaned by sandblasting and coated with epoxy resin adhesive in accordance with 908.11. Final cleaning shall be done with an air compressor. The air compressor shall be equipped with suitable separators, traps, or filters which will remove water, oil, grease, or other substances from the air lines.

The cavity shall be filled with class A concrete in accordance with 702, except the cement used shall be portland cement type IIIA, or portland cement type III with the addition of an air entraining mixture to the concrete. However, special class A concrete may be used with 846 pounds of portland cement type IA per cubic yard, or 846 pounds of portland cement type I per cubic yard with the addition of an air entraining admixture to the concrete. In all cases, air entrainment in the concrete mix shall be from S to 8 percent by volume, and coarse aggregate used shall be No. 11.

This work will be paid for at the contract unit price per square foot for overlay dams, complete in place and accepted. Payment shall include and be full compensation for removing the existing concrete; for furnishing, hauling, and placing all materials including the epoxy; for preparing the surface; and for all labor, equipment, tools, and incidentals necessary to complete this work.

26. EXPANSION JOINT BS PLACEMENT IN JOINT SEAT

905.02(d).

The expansion joint or joints shall meet the dimension and tolerance requirements, as specified in the following table, for the type or types joints specified or furnished.

Expansion Joint Type	Scal Width	Seal Height	Minimum Joint Width	Maximum Joint Width	Minimum Joint Width @ Installation
BS 2	1 %** (+ %**)	1 %** (± 1/**)	5%** (<u>+</u> 1%**)	1 ¼* (± ¼*)	7/6" (+ 1/6" - 1/4")
BS 6	2 1/2 * (± 1/4*)	2 × * (± ½*)	1 1/1* (± 1/1*)	2 ¼* (± ¼*)	1 1/ (+ 1/4" - 1/4"
BS 8	3" (± 1/8")	3 ¼* (± ¼*)	1 % (± % *)	2 5%* (± 1/**)	1 1/4" (+ 1/6" - 1/4"
BS 9	4" (<u>+</u> ½")	↓¾* (<u>+</u> ¾*)	1 ** (± **)	3 ¾* (± ½*)	2 1/2 (+ 1/4" - 1/4"
BS 11	5" (+ 1/4")	5 1/4" (+ 1/4")	1 % (+ %)	4 1/4" (+ 1/4")	3. (+ 1/1 - 1/4.)

the details shown on the plans. The distance from the top of the bridge floor down to the seat for the joint, as shown on the plans, shall be determined in accordance with the joint manufacturer's recommendations. When the joint is at its minimum width, the distance from the top of the bridge floor down to the top of the joint seal shall be 1/2 of an inch minimum and 3/4 of an inch maximum for joints BS2, BS6, and BS8, and 3/4 of an inch minimum and one inch maximum for joints BS9 and BS11. The strip seal installed shall be continuous throughout the full length of the joint, except the installation in curbs shall be in accordance with the details as shown on the plans. Neat, well made factory splices in the strip seal will be permitted. However, field splices of the strip seal will not be permitted

This work will be paid for at the contract unit price per linear foot, complete in place and accepted, for the type or types of BS joints specified in the Itemized Proposal, which payment shall include and be full compensation for furnishing, hauling, and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete the item.

27. CLEANING AND SEALING EXISTING JOINTS (BRIDGE NOS. 138 and 502) This work consists of cleaning and sealing joints that are not replaced with BS-6 or BS-8 expansion joint seals on Bridge Nos. 138 and 502. Joints shall be thoroughly cleaned by sandblasting and the joints clean and dry when placing the scalant. The work and material shall be in accordance with the applicable provisions of Section 905.02 and manufacturer's recommendations. Dow Corning 888 Highway Joint Sealant or equal shall be used.

This work will not be measured for payment. Payment will be made of the contract lump sum price for Cleaning and Sealing Existing Joints. This payment shall be for the cost for all labor, materials, equipment, tools, and incidentals necessary to complete the work.

28. SPECIAL CLASS A CONCRETE This work shall consist of the removal of weathered or disintegrated areas of existing concrete from the bridge and replacing it with new mortar or Class 'A' concrete at locations as shown on the plans or as otherwise directed

Removal of unsound concrete and protection of reinforcing steel shall be in accordance with 722.05(a)2. The slope of the cavity may be such that a thin layer of unsound concrete exists along the periphery of the hole after placement of the mortar or concrete. This condition shall be corrected by making a cut perpendicular to the surface of a minimum depth of one inch or to the top of reinforcing steel, whichever is less, at least one inch outside the originally spalled area.

Power-driven hand tools for removal by handchipping, as set out above, will be permitted in accordance with 722.05(a)2.

The prepared surface shall be coated with epoxy resin adhesive in accordance with AASHTO M235, Class 'I', and the cavity shall be filled with Class 'A' concrete, except that the coarse aggregate used shall be size No. 11. Epoxy resin adhesive shall not be allowed to dry before mortar or concrete is placed against it. If drying does occur, it shall be recoated before any more material is placed. Where the cavity is less than 1/2 of an inch depth, the filling material shall be portland cement mortar composed of one part portland cement and two parts No. 23 sand. Where the surface is to be cleaned out to such depth and area that the new concrete or mortar does not stay in place without support, a form shall be placed over the area and the space so enclosed filled with concrete or mortar, well rodded in. New concrete or mortar shall be protected from the elements for at least 72 hours after completion This work shall not be done in freezing weather nor when the surface contains frost.

The cement used in the mortar or class A concrete shall be portland cement type IIIA, or portland cement type III with the addition of an airentraining admixture to the concrete. However, class A concrete may also be made using 846 pounds of portland cement type IA per cubic yard, or 846 pounds of portland cement type I per cubic yard with the addition of an airentraining admixture to the concrete. In all cases, air entrainment in the concrete mix shall be from 5 to 8 percent by volume.

The bridge deck finishing machine shall conform to the 1988 Standard Specifications, Section 722.08

This work shall consist of the removal of existing concrete from the bridge floor and replacing with

This item consists of furnishing and placing the pre-molded expansion joint as shown on the plans and

Expansion joint BS2, BS6, BS8, BS9, and BS11. These joints shall be constructed in accordance with

Cleaning of the existing concrete surface shall be in accordance with 722.05(b).

This work will be measured by the square foot for areas that average 4 inches or iess in depth. Individual patches of less than one square foot will be considered to be one square foot. For areas that average over 4° in depth, the work will be measured by the cubic foot. The cubic foot price will be 3 times the bid price per square foot.

The accepted quantities of special class A concrete used for patching areas will be paid for a the contract unit price per square foot or cubic foot for special Class 'A' concrete special. The costs of removing the existing concrete; furnishing, hauling, and placing all materials including the epoxy; preparing the surface; and all labor, equipment, tools, and incidentals necessary shall be included in the cost of this work.

29. EXTENSION OF DECK DRAINS (BRIDGE NO. 139) This work consists of extending the existing deck drains in Bridge NO. 139 by inserting a 3° dia. P.V.C. pipe 9° long inside the bottom 6° of the existing drains. The P.V.C. Pipe will be epoxy grouted and bonded in place so that 3° will extend below the bottom of the beam. This work will be paid for at the contract unit price for each deck drain extended. Payment will be full

compensation for and shall include all labor, materials, equipment, tools, and incidentals necessary to complete the work.

30. CONCRETE REPAIR BY EPOXY INJECTION Description: This work shall consist of furnishing all supervision, labor, materials, and equipment to structurally rebond concrete cracks, fractures, or delaminations by means of an epoxy injection system.

Approvals: Prior to the start of the work, the Contractor shall submit a notarized qualification statement indicating the firm has been engaged in this type of work for not less than 1 year. In addition, the certification shall indicate that the personnel performing the repair shall have 1 year minimum experience with the epoxy injection system.

The epoxy injection system proposed for use shall be approved prior to the start of the repair. A copy of comprehensive preparation, mixing, and application instructions shall be furnished which have been developed especially for use with the proposed epoxy injection system.

Materials: The epoxy resin adhesive shall be Concresive 1380 as manufactured by Adhesive Engineering Company, San Carlos, California, or approved equal. The epoxy shall be low viscosity, capable of penetrating crack widths down to 0.005 of an inch. The epoxy shall be capable of bonding to dry or damp surfaces, and shall exhibit a slant shear strength exceeding the concrete strength when tested fully cured in accordance with AASHTO T 237.

The surface seal material shall have adequate strength to hold injection fittings firmly in place and to resist injection pressures adequately to prevent leakage during injection.

Construction Requirements: The location and extent of cracks to be repaired by epoxy injection will be determined by the Engineer. The Contractor and Engineer shall consult and agree as to when the work is to be done. The work shall be performed with two-component automatic metering and mixing equipment using the Structural Concrete Bonding[™] process by Adhesive Engineering Company, San Carlos, California, or an approved equivalent process. Concrete surfaces adjacent to the cracks shall be cleaned to the extent necessary to achieve adequate bond of the surface seal material. Entry ports shall be provided along the crack at intervals determined in the field to insure full depth penetration of the injection resin. Surface seal shall be applied between entry ports, and on both faces of through crackswhen possible.

Epoxy injection shall begin at the lower entry port and continue until there is an appearance of epoxy at the adjacent entry port. Injection shall continue until all cracks are completely filled. If port to port travel is not apparent, the work shall be stopped immediately and the Engineer notified. Upon completion of the injection, the adhesive shall be allowed to cure for sufficient time to allow removal of surface seal without any draining or runtack of material from the cracks. Surface seal material and injection adhesive runs or spills shall be removed from concrete surfaces. The face of the crack shall be finished flush to the adjacent concrete showing no indentations or protrusions caused by the placement of entry ports.

Method of Measurement: Furnishing equipment for epoxy injection will not be measured for payment. Crack preparation for epoxy injection and epoxy material will be measured by the linear foot of prepared crack.

Basis of Payment: This work will be paid for at the contract lump sum price for furnishing equipment, and at the contract unit price per linear foot for crack preparation and epoxy material. Payment shall include all labor, material, equipment, tools, and incidentals necessary to complete the work.

31. PAVED SITE DITCH, A (BRIDGE NO. 502) This work will be in accordance with IDOH Specifications, Section 607. Included with this is the removal of existing P.S.D. concrete below the curb section, grading, and pouring the new section and cut-off wall. Existing reinforcing steel extending beyond the curb section shall be left in place and incorporated into the new P.S.D. extension. The cut-off wall will be poured at about 1'-O' from the outlet end. The P.S.D. will not be poured until the Revetment RipRop has been completed. This is so the P.S.D. can extend about 1'-0" over the top of the Revetment Riprap.

32. GEOTEXTILES Geotextiles shall conform to the requirements of Section 616.09 of the Indiana Department of Highways Standard Specifications, 1988.

33. REVETMENT RIPRAP (18*) This work shall be in accordance with Section 616. In areas where water drains over the riprap from paved side ditches, storm drains, or surface drainage outlets, depressions or flat bottom ditches in the riprap will be made to control the drainage without concentrating the water in a "V" type ditch. In areas under deck drains, care shall be taken to chink voids with smaller rock to make a dense splash

34. CONCRETE SLOPEWALL This work consists of grading and constructing 4° concrete slopewall at locations shown on the plans or as directed in accordance with Section 616. Included with this is the work necessary to install dowels into the existing slopewall as shown on the plans.

35. RUBBING All exposed surfaces which cannot be repaired to the satisfaction of the Engineer shall be rubbed as specified for a Class 2 Finish.

36. SURFACE SEAL The Epoxy Penetrating Sealing shall be done in accordance with Section 709 of the Specifications. Areas to be surface sealed are as noted in the general notes for each bridge.

37. CLEAN AND PAINT BEARING ASSEMBLIES This work shall consist of cleaning and painting the bearing assemblies at locations directed. This work shall be in accordance with the applicable provisions of 619. This work will not be measured for payment. Payment for this work will be made at the contract lumr sum price for clean and paint bearing assemblies, for the applicable structure. This payment shall include the costs for all materials, equipment, tools, and labor, and incidentals necessary to complete the work.

38. BITUMINOUS SURFACE

This work shall consist of one or more courses of bituminous mixture constructed on the prepared asphalt base or existing pavement in accordance with Section 400. The basis of payment shall be by the ton. Tack coat is required, and the cost of this will be included in the unit price per ton bid.

39. MULCHED SEEDING This work consists of seeding and mulching the areas disturbed during repair work as directed by the Engineer, and in accordance with the provision of Section 621. This includes all disturbed stream bank areas. The cost of this will be included in other bid items.

40. REMOVAL OF GUARDRAIL This work shall consist of the removal of the existing guardrail in accordance with the applicable provisions of 202 and the following.

All guardrail, posts, and hardware will become the property of the County after removal. The guardrail, posts, and hardware removed shall be stored as directed. The guardrail or posts shall not be damaged during removal.

This work will be measured by the linear foot. This work will be paid for at the contract unit price per linear foot for removal of guardrail. The costs of removal and storage of the guardrail, posts, and hardware shall be included in the cost of this work.

41. OFF-STRUCTURE W-BEAM GUARDRAIL

This work shall consist of the fabrication, assembly, and installation of W-beam guardrait, any shop or field curved sections, and terminal end pieces in accordance with these requirements, and at the locations shown on the plans. This work may also consist of the extension of existing rub-rail type guardrail with W-beam guardrail. The materials for the W-beam guardrail shall be in accordance with 909.09, 909.10, 909.11, and 909.12. The adjustable post brackets are not required unless noted on the drawings. The post spacing and post lengths shall be as shown on the plans for each specific location. W-beam guardrail will be measured by the linear foot, complete in place. W-beam guardrail will be paid for at the contract unit price per linear foot. The pay length for shop curved guardrail shall be 1.3 times the actual length. Payment will be measured from end posts.

Payment will be made under:

Pay Item	Pay Unit
Guardrail, W-beam, 6'-3" Spacing Guardrail, W-beam, 12'-6" Spacing	Linear Foot Linear Foot
42. GUARDRAIL END TREATMENT (BURIED)	

The pay stem for 'Guardrail End Treatment (Buried)' includes the splice plate "C" assembly detail and all posts and guardrail furnished and installed as shown on the plans and required by the specifications. The basis of payment shall be for each "Guardrail End Treatment (Burned)" installed.

43. ADJUSTABLE POST BRACKETS (BRIDGE NO. 138) This work consists of furnishing and installing adjustable post brackets on the Bridge No. 138 guardrail

44. ADJUST CASTING TO GRADE (BRIDGE NO. 502) This item consists of adjusting the manhole frame and cover in Third Street to grade for the asphalt

labor, materials, equipment, tools, and incidentals necessary to complete this work.

Desc Mobilization/Demobilizati Overlay Dams Expansion Joint, BS-8 Clean and Seal Joints Clean and Paint Bearing Surface Seal Guardrail, Remove Guardrail, W-Beam, 6'-3' 9 Guardrail, W-Beam, 12'-6 10 Guardrail, End Treatmen 11 Adjustable Post Brackets 12 Construction Signs Type . 13 Standard Barricades Type

posts as shown on the plans. Field drilled holes may be required for installation and all work and material shall conform to Sections 909.10(a) and 909.11(a).

surface overlay. Maximum increase in the raised adjustment is 2 inches. This work will be paid for at the contract price for each. Payment will be full compensation for all

JAY COUNTY BRIDGE NO. 138

ESTIMATE OF QUANTITIES

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ption	Quantity	Uait	
xa	1	L.S.	
	60.4	SFT.	
	64.4	LF.	
-	1	L.S.	
ssemblies	1	L.S.	
	1	L.S.	
	100	LFT.	
Spacing	240	LFT.	
* Spacing	525	LFT.	
t (Buried)	3	EACH	
	54	EACH	
A	4	EACH	
Ш-А	2	EACH	

JAY COUNTY BRIDGE NO. 139 ESTIMATE OF QUANTITIES

Item	Description	Quantity	Unit
1	Mobilization/Demobilization	1	L.S.
2	Removal of Present Structure (Portions)	1	L.S.
3	Class 'C' Concrete in Railing	1.76	CYS.
4	Reinforced Concrete Pavement, 10*	55.6	SYS.
5	Epoxy Coated Reinforcing Steel	2077	LBS.
6	Compacted Aggregate for Base, Type 'O', No. 53	20	TONS
7	Surface Mill, Concrete	396	sys. 🗸
8	Surface Milling, Bituminous	222	SYS.
9	Removal for Expansion Joints	175	SFT.
10	Special Class 'A' Concrete	20	SFT.
11	Partial Depth Bridge Dock Patching	475	(SFI)
12	Extension of Deck Drains	8	EACH
13	Bridge Deck Overlay (Latex)	396	SYS.
14	Additional Bridge Dock Overlay	6	CYS.
15	Expansion Joint, BS-6	• 122	L.F.
16	Slopewall, Concrete	55.8	SYS.
17	Surface Seal	. 1	IS.
18	Bituminous Surface	60	TON
19	Guardrail, Remove	262.5	LFT.
20	Guardrail, W-Beam, 6'-3" Spacing	100	LFT.
21	Guardrail, W-Beam, 12"-6" Spacing	350	LFT.
2.2	Guardrail, End Treatment (Buried)	4	EACH
23	Construction Signs Type A	4	EACH
24	Standard Barricades Type III-A	2	BACH
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JAY COUNTY BRIDGE NO. 502 ESTIMATE OF QUANTITIES

Item	Description	Quantity	Unit	
1	Mobilization/Demobilization	1	L.S.	
2	Surface Milling, Concrete	264	SYS.	
3	Surface Milling, Bituminous	293.3	SYS.	
4	Concrete Removal for Expansion Joints	54	SFT.	
5	Overlay Dams	118	SFT.	
6	Partial Depth Bridge Deck Patching	400	SFT.	107
7	Special Class 'A' Concrete	140	SFT.	
8	Expansion Joint, BS-6	86	L.F.	
9	Clean and Seal Joints	1	L.S.	
10	Bridge Deck Overlay (Latex)	264	SYS.	llays.
11	Additional Bridge Deck Overlay	4	CYS.	
12	Epoxy Injection, Furnishing Equipment	1	L.S.	
13	Epoxy Injection, Crack Repair	30	LFT.	
14	Adjust Casting to Grade	1	L.S.	
15	Surface Seal	1	LS.	
16	Bituminous Surface	90	TONS	
17	Bituminous Base	8	TONS	
18	Site Work	1	L.S.)
19	Paved Side Ditch, A	20	LFT.	1
20	Revetment Riprap	210	TONS	
21	Geotextiles	280	SYS.	
22	Sidewalk	14.5	SYS.	
23	Construction Signs Type A	7	EACH	
24	Standard Barricades Type III-A	2	EACH	
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