

GENERAL SUMMARY

DESIGN AGENCY DISTRICT 3  ENGINEERING TEAM TWO	
DESIGNER STO	
REVIEWER NRF 01/12/26	
PROJECT ID 121721	
SHEET 9	TOTAL 40

SHEET NUMBER			PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	26	27	01/NHS/05	02/NHS/05	03/NHS/05						
										TRAFFIC CONTROL	
	676		676			621	00100	676	EACH	RPM	
	674		674			621	54000	674	EACH	RAISED PAVEMENT MARKER REMOVED	
	14.46		14.46			642	00100	14.46	MILE	EDGE LINE, 4", TYPE 1 (WHITE)	
	0.87		0.87			642	00204	0.87	MILE	LANE LINE, 6", TYPE 1	
	7.42		7.42			642	00300	7.42	MILE	CENTER LINE, TYPE 1	
	1,799		1,799			642	00400	1,799	FT	CHANNELIZING LINE, 8", TYPE 1	
	166		166			642	00500	166	FT	STOP LINE, TYPE 1	
	1,186		1,186			642	00700	1,186	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	
	21		21			642	01300	21	EACH	LANE ARROW, TYPE 1	
	2		2			644	01350	2	EACH	LANE REDUCTION ARROW	
	0.38		0.38			646	10010	0.38	MILE	EDGE LINE, 6" (WHITE)	
	0.27		0.27			646	10110	0.27	MILE	LANE LINE, 6"	
	0.19		0.19			646	10200	0.19	MILE	CENTER LINE	
	185		185			646	10300	185	FT	CHANNELIZING LINE, 8"	
	251		251			646	10600	251	FT	TRANSVERSE/DIAGONAL LINE	
200	1		1			646	20300	1	EACH	LANE ARROW	
200			200			831	00100	200	FT	LONGITUDINAL CHANNELIZING DEVICE	
			200			831	00500	200	FT	REMOVAL OF LONGITUDINAL CHANNELIZING DEVICE	
		170	170			SPECIAL	51631200	170	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	27
		2,573	2,573			512	73500	2,573	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
		196	196			SPECIAL	51631200	196	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	27
		170	170			SPECIAL	51631200	170	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	27
		92	92			202	98200	92	FT	REMOVAL MISC.: JOINT SEALER	27
		92	92			409	30000	92	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	
		92	92			516	31000	92	FT	JOINT SEALER	
		180	180			517	75600	180	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
		90	90			202	98200	90	FT	REMOVAL MISC.: JOINT SEALER	27
		90	90			409	30000	90	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	
		90	90			516	31000	90	FT	JOINT SEALER	
		4.4	4.4			519	12300	4.4	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
										MAINTENANCE OF TRAFFIC	
			60			614	11110	60	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			72			614	12460	72	EACH	WORK ZONE MARKING SIGN	
			25			614	13000	25	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
	3.42		3.42			614	20560	3.42	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
	22.83		22.83			614	21550	22.83	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
	5,952		5,952			614	23680	5,952	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
	498		498			614	26610	498	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
	66		66			614	30650	66	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
										INCIDENTALS	
			LS	LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
			3		1	619	16010	4	MNTH	FIELD OFFICE, TYPE B	
			LS	LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
			LS	LS	LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3



ENGINEERING
TEAM TWO

DESIGNER
STO

REVIEWER
NRF 01/12/26

PROJECT ID
121721

SHEET 10 | TOTAL 40

DESIGN SPECIFICATIONS
(BDM 601.3-1)

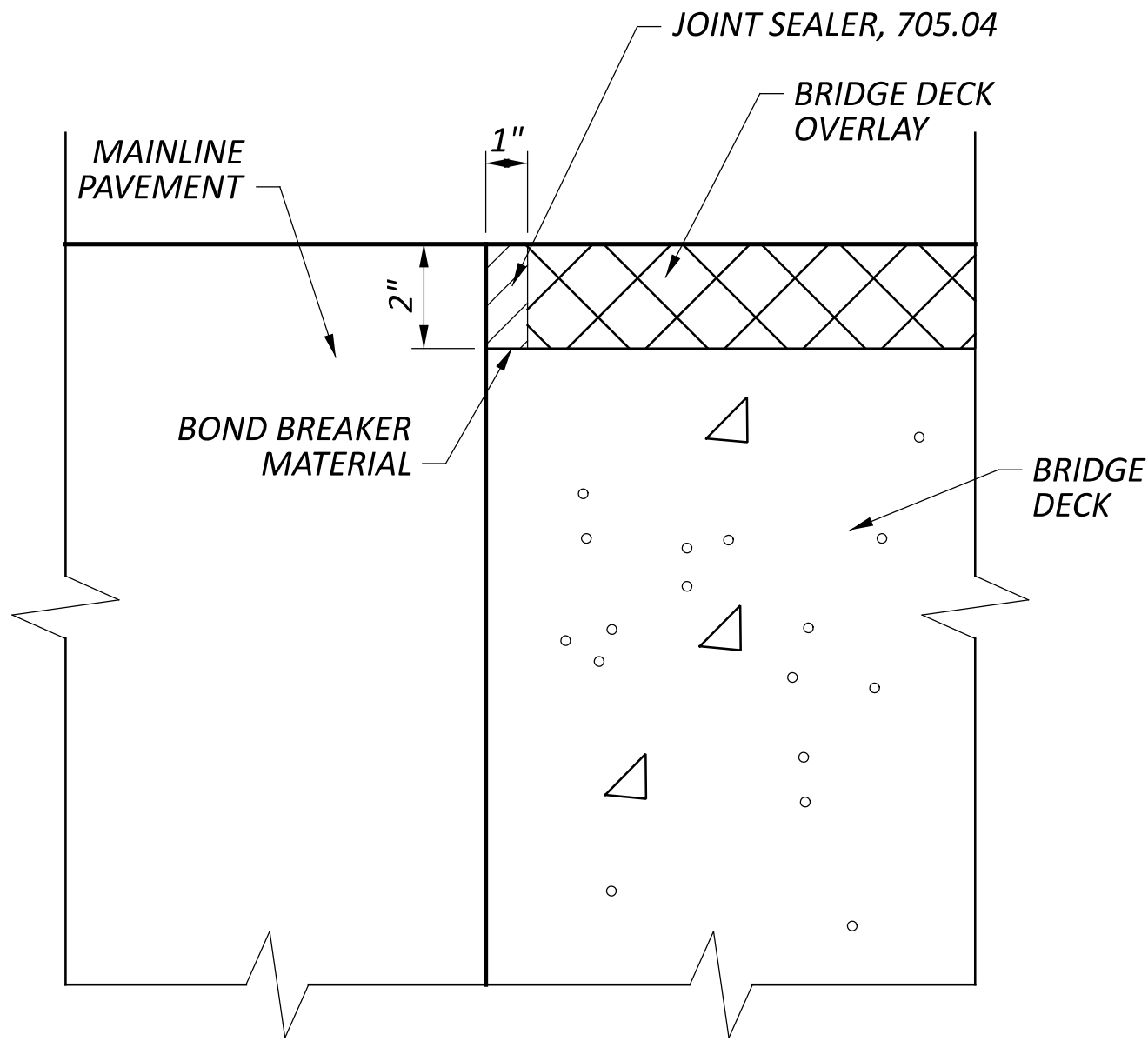
THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2024, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS
(BDM 601.2-1)

THE DESIGNER SHALL LIST ALL STANDARD BRIDGE DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS THAT APPLY, GIVING DATE OF APPROVAL OR LATEST REVISION DATE, IF REVISED. THE DESIGNER SHALL ALSO ENSURE THE LISTED STANDARD BRIDGE DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS ARE TRANSFERRED TO THE PROJECT PLANS TITLE SHEET AND MATCH THE INFORMATION ON THE TITLE SHEET.

EXISTING STRUCTURE VERIFICATION
(BDM 610.1-1)

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05 AND 105.02. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.



ITEM SPECIAL - SAWING AND SEALING
BITUMINOUS CONCRETE JOINTS

ITEM SPECIAL - SAWING AND SEALING BITUMINOUS CONCRETE JOINTS

THIS WORK SHALL CONSIST OF CUTTING AND SEALING TRANSVERSE JOINTS IN THE BITUMINOUS CONCRETE OVERLAY OF BRIDGES. BITUMINOUS CONCRETE JOINTS SHALL BE CONSTRUCTED DIRECTLY OVER, AND IN LINE WITH, THE EXISTING UNDERLYING TRANSVERSE JOINT(S) OF THE BRIDGE.

THE JOINT SEALANT SHALL MEET THE REQUIREMENTS OF C&MS 705.04, AND ITEM 516 - JOINT SEALER.

GENERAL:
THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO THAT THE CUTTING, CLEANING AND SEALING OF TRANSVERSE JOINTS IS A CONTINUOUS OPERATION THAT WILL BE PERFORMED AS SOON AS PRACTICAL AFTER THE PAVING, BUT NO LATER THAN FOUR (4) DAYS AFTER PLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE. TRAFFIC SHALL NOT BE ALLOWED TO KNEAD TOGETHER OR DAMAGE JOINT CUT PRIOR TO SEALING.

CUTTING OF TRANSVERSE JOINTS:
THE CONTRACTOR SHALL SAW OR ROUT TRANSVERSE JOINTS TO THE DIMENSIONS SHOWN IN THE DETAILS ON THIS SHEET. THE CUT JOINTS SHALL LIE DIRECTLY ABOVE EACH JOINT. THE BLADE OR BLADES SHALL BE OF SUCH SIZE THAT THE FULL WIDTH AND DEPTH OF THE CUT CAN BE MADE WITH ONE PASS. DRY OR WET CUTTING WILL BE ALLOWED. JOINTS SHALL EXTEND THE FULL WIDTH OF THE BRIDGE.

CLEANING JOINTS:
DRY SAWED JOINTS SHALL BE THOROUGHLY CLEANED WITH A SUFFICIENT AMOUNT OF COMPRESSED AIR TO REMOVE ANY DIRT, DUST, OR DELETERIOUS MATTER. WET SAWED JOINTS SHALL BE WASHED CLEAN OF ALL CUTTINGS BY FLUSHING WITH A JET OF WATER AND WITH OTHER TOOLS AS NECESSARY. AFTER FLUSHING, THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR. WHEN THE SURFACES ARE THOROUGHLY CLEAN AND DRY, AND JUST PRIOR TO PLACING THE JOINT SEALER, COMPRESSED AIR HAVING A PRESSURE OF AT LEAST 90 P.S.I. SHALL BE USED TO BLOW OUT THE JOINT AND REMOVE ALL TRACES OF DUST. IN THE EVENT FRESHLY CUT JOINTS BECOME CONTAMINATED BEFORE THEY ARE SEALED, THEY SHALL BE RECLEANED OF ALL FOREIGN MATERIAL BY HIGH PRESSURE WATER JET.

SEALING JOINTS:
THE JOINT SHALL BE THOROUGHLY DRY WHEN THE SEALANT IS PLACED. AFTER CLEANING AND DRYING, A BOND-BREAKER MATERIAL SHALL BE APPLIED TO THE BOTTOM OF THE GROOVE.

HOT-POURED JOINT SEALANT MATERIAL SHALL BE HEATED IN A KETTLE OR MELTER CONSTRUCTED AS A DOUBLE BOILER, WITH THE SPACE BETWEEN THE INNER AND OUTER SHELLS FILLED WITH OIL OR OTHER HEAT TRANSFER MEDIUM. POSITIVE TEMPERATURE CONTROL AND MECHANICAL AGITATION SHALL BE PROVIDED. HEATING MUST BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. JOINT SEALER MATERIAL SHALL NEVER BE KEPT HEATED AT THE POURING TEMPERATURE FOR MORE THAN FOUR (4) HOURS AND SHALL NEVER BE REHEATED. SEALER LEFT IN THE APPLICATOR AT THE END OF A DAY'S WORK SHALL NOT BE USED.

HOT-POURED SEALANT SHALL BE APPLIED IMMEDIATELY THROUGH A NOZZLE, WHICH MUST PROJECT INTO THE SAWED JOINT, FILLING FROM THE BOTTOM UP. THE SEALANT SHALL COMPLETELY FILL THE JOINT IN SUCH A MANNER THAT, AFTER COOLING, THE LEVEL OF THE SEALANT WILL NOT BE HIGHER THAN 1/8" BELOW THE PAVEMENT SURFACE. ANY DEPRESSION IN THE COOLED SEAL GREATER THAN 3/16" SHALL BE BROUGHT UP TO THE SPECIFIED LIMIT BY FURTHER ADDITION OF HOT-POURED SEALANT. CARE SHALL BE TAKEN IN THE SEALING OF THE JOINTS SO THAT THE FINAL APPEARANCE WILL PRESENT A NEAT FINE LINE.

THE COLD APPLIED SEALANT MATERIALS SHALL BE INSTALLED AS PER MANUFACTURERS' RECOMMENDATIONS, EXCEPT AS MODIFIED BY THESE PLANS. THE SEALANT SHALL BE INSTALLED WHEN THE AMBIENT TEMPERATURE IS 40 DEGREES F OR HIGHER. TRAFFIC SHALL NOT BE ALLOWED ON THE JOINT FOR ONE HOUR AFTER APPLICATION OF THE SEALANT.

METHOD OF MEASUREMENT:
THE QUANTITY TO BE PAID FOR UNDER THIS ITEM WILL BE THE NUMBER OF LINEAR FEET OF JOINTS SAWED AND SEALED AS PER THE ABOVE REQUIREMENTS.

BASIS OF PAVEMENT:
THE UNIT PRICE PER LINEAR FOOT FOR ITEM SPECIAL-"SAWING AND SEALING BITUMINOUS CONCRETE JOINTS" SHALL INCLUDE THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK, INCLUDING THE FURNISHING AND PLACING OF THE JOINT SEALER MATERIAL.

ITEM SPECIAL – PATCHING CONCRETE BRIDGE DECK, TYPE C

USE THIS ITEM AT THE LOCATIONS INDICATED IN THE PLANS. QUANTITIES SHOWN IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. EXACT DIMENSIONS AND LOCATIONS OF REPAIRS SHALL BE DETERMINED BY THE ENGINEER.

SEE PROPOSAL NOTE 512 FOR ADDITIONAL DETAILS.

PAYMENT FOR ALL THE ABOVE ITEMS WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD AND IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE WORK.

ITEM 614 – MAINTAINING TRAFFIC (FOR ALL STRUCTURES)

ALL LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON THESE STRUCTURES MAY HAVE LANE AND/OR SHOULDER CLOSURES USING BARRELS ACCORDING TO THE APPROPRIATE STANDARD CONSTRUCTION DRAWINGS AND THE PERMITTED LANE CLOSURE MAPS. THE LAYOUT OF THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION AND MUST BE INSPECTED AFTER ERECTION OF SUCH MEASURES. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE MAINTENANCE OF TRAFFIC SCHEME AT ANY TIME.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 – MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THIS PLAN.

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

ITEM 202 – REMOVAL, MISC.: JOINT SEALER

REMOVE THE EXISTING JOINTER SEALER IN ITS ENTIRETY AND ANY DEBRIS THAT ARE OBSTRUCTING THE JOINT WHERE NEW MATERIAL IS TO BE APPLIED AS SPECIFIED ON THE DETAILED DRAWINGS INCLUDED IN THIS PLAN.

STRUCTURE SUBSUMMARY

ITEM	QUANTITY					TOTAL	UNIT	DESCRIPTION
	ASD-250-1748	ASD-250-1761	ASD-250-1777	ASD-250-1822	ASD-250-2363			
202E98200				92	90	182	FT	REMOVAL MISC.: JOINT SEALER
409E30000				92	90	182	FT	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS
512E73500		2573				2573	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
516E31000				92	90	182	FT	JOINT SEALER
516E31200	170	196	170			536	FT	SPECIAL - SAWING AND SEALING BITUMINOUS CONCRETE JOINTS
517E75600				180		180	FT	DEEP BEAM RETROFIT RAILING
519E12300					4.4	4.4	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B

ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY