

# ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)

AN ESTIMATED QUANTITY FOR EACH LOCATION IS PROVIDED IN TABLE 1, FOR REMOVAL OF SECONDARY MEMBERS AS DETERMINED BY FIELD INSPECTION BY THE ENGINEER. FLAME OR SAW CUT THE EXISTING MEMBERS TO WITHIN 1/8 INCH OF THE EXISTING MAIN MATERIAL USING A MECHANICAL GUIDE ACCORDING TO C&MS 513.12 PROVIDE SHIELDING AS NECESSARY TO PREVENT DAMAGE TO MAIN OR SECONDARY MATERIALS THAT REMAIN. GRIND THE EXISTING MAIN OR SECONDARY MEMBER SMOOTH IN PREPARATION FOR COMPLETE PENETRATION OR FILLET WELDING. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL (TO ACCOMMODATE THE PROPOSED REPLACEMENT MATERIALS). DETERMINE FINAL QUANTITIES BY FIELD MEASUREMENTS. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 202 - PORTIONS OF SECONDARY MEMBERS REMOVED, AS PER PLAN: POUND.

### ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN

ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO 513.06 OR SUPPLY THE ENGINEER WITH "AS BUILT" DRAWINGS MEETING 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED, SEALED AND DATED, ACCORDING TO S1002, TO THE STRUCTURAL, WELDING AND METALS SECTION OF THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES. THE MEMBERS INCLUDED IN THIS ITEM ARE PROVIDED IN TABLE 1. THE DEPARTMENT WILL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN: POUND.

#### ITEM 513 - STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED SECONDARY MEMBERS, FILLET WELDING

PERFORM 5/16 INCH FILLET WELDS ACCORDING TO ITEM 513 USING APPROVED ELECTRODES, PROCEDURES AND WELDERS. WELD EACH APPROPRIATE SECONDARY MEMBER ACCORDING TO PLAN DETAILS. MAGNETIC PARTICLE INSPECT ALL FILLET WELDS ACCORDING TO C&MS 513.25B. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT. THE DEPARTMENT WILL INCLUDE ALL MATERIALS; TOOLS; LABOR; EQUIPMENT; AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK FOR PAYMENT WITH ITEM 513 -STRUCTURAL STEEL MISC., REPAIR OF DAMAGED SECONDARY MEMBERS: FILLET WELDING: FOOT

# ITEM 514 - FIELD PAINTING, MISC.: SECONDARY MEMBERS

THIS ITEM SHALL INCLUDE PAINTING AS WELL AS THE SURFACE PREPARATION OF THE SECONDARY MEMBERS IN THE FIELD WITH PRIME, INTERMEDIATE AND SURFACE COATS AS DIRECTED BY THE ENGINEER. THE PAINT MAY BE APPLIED BY BRUSH ACCORDING TO 514.17.E. SOLVENT CLEAN THE APPROPRIATE SECONDARY MEMBERS AS PER SSPC-SP 1 AND SSPC-SP 2, RESPECTIVELY, PRIOR TO PAINTING ACCORDING TO ITEM 514. CONTRACTOR SHALL PROVIDE CONTAINMENT TO MAINTAIN PROPER CURING TEMPERATURES. THE CONTRACTOR WILL PAINT THE NEW STIFFENERS, AN ESTIMATED 6" AREA AROUND THE NEW STIFFENER ON THE WEB OF BEAM. AN ESTIMATED 6" AROUND THE WELD REPAIR AREA, AND ANY LOCATIONS WHERE GRINDING WAS REQUIRED.

THE FINISH COAT COLOR SHALL BE LIGHT BLUE AMS-STD-15526.

PAYMENT FOR ALL LABOR. EQUIPMENT. MATERIALS AND CONTAINMENT FOR CURING SHALL BE INCLUDED IN THE SQUARE FOOT CONTRACT BID FOR ITEM 514 FIELD PAINTING, MISC.: SECONDARY MEMBERS.

### **ITEM SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT**

THIS ITEM SHALL INCLUDE SURFACE PREPARATION AND SEALING OF CONCRETE SURFACES WITH A LIQUID FLEXIBLE SEALANT AS SHOWN ON BRIDGE DETAIL SHEETS. SEALANT SHALL BE FLEX SEAL LIQUID (OR APPROVED EQUAL) APPLIED IN TWO COATS. THE FIRST COAT SHALL BE CLEAR AND THE SECOND COAT SHALL BE GRAY OR WHITE. PERFORM SURFACE PREP AND SEALANT APPLICATION ACCORDING TO MANUFACTURERS' RECOMMENDATIONS AND UNDER THE OBSERVATION OF THE ENGINEER.

A. PREPARATION:

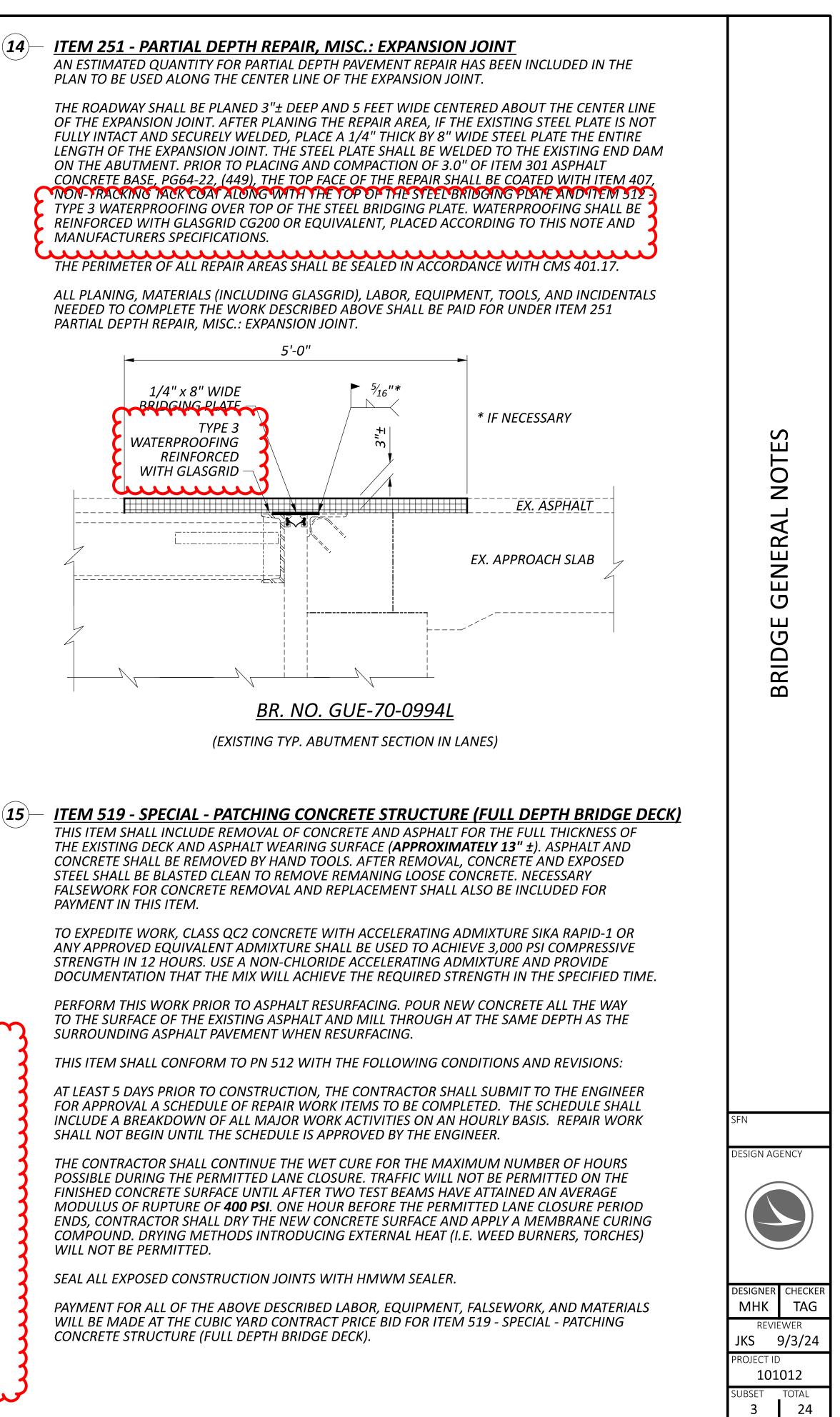
REMOVE DUST, DIRT, OIL, WAX, CURING COMPOUNDS, EFFLORESCENCE, LAITANCE, LOOSE OR PEELING COATINGS AND OTHER FOREIGN MATERIALS FROM SURFACES TO BE SEALED. EXISTING COATINGS DO NOT NEED TO BE FULLY REMOVED, ONLY LOOSE OR PEELING COATINGS. ENSURE THAT ALL WASTE GENERATED BY THE SURFACE PREPARATION OPERATION IS MANAGED IN ACCORDANCE WITH 107.19.

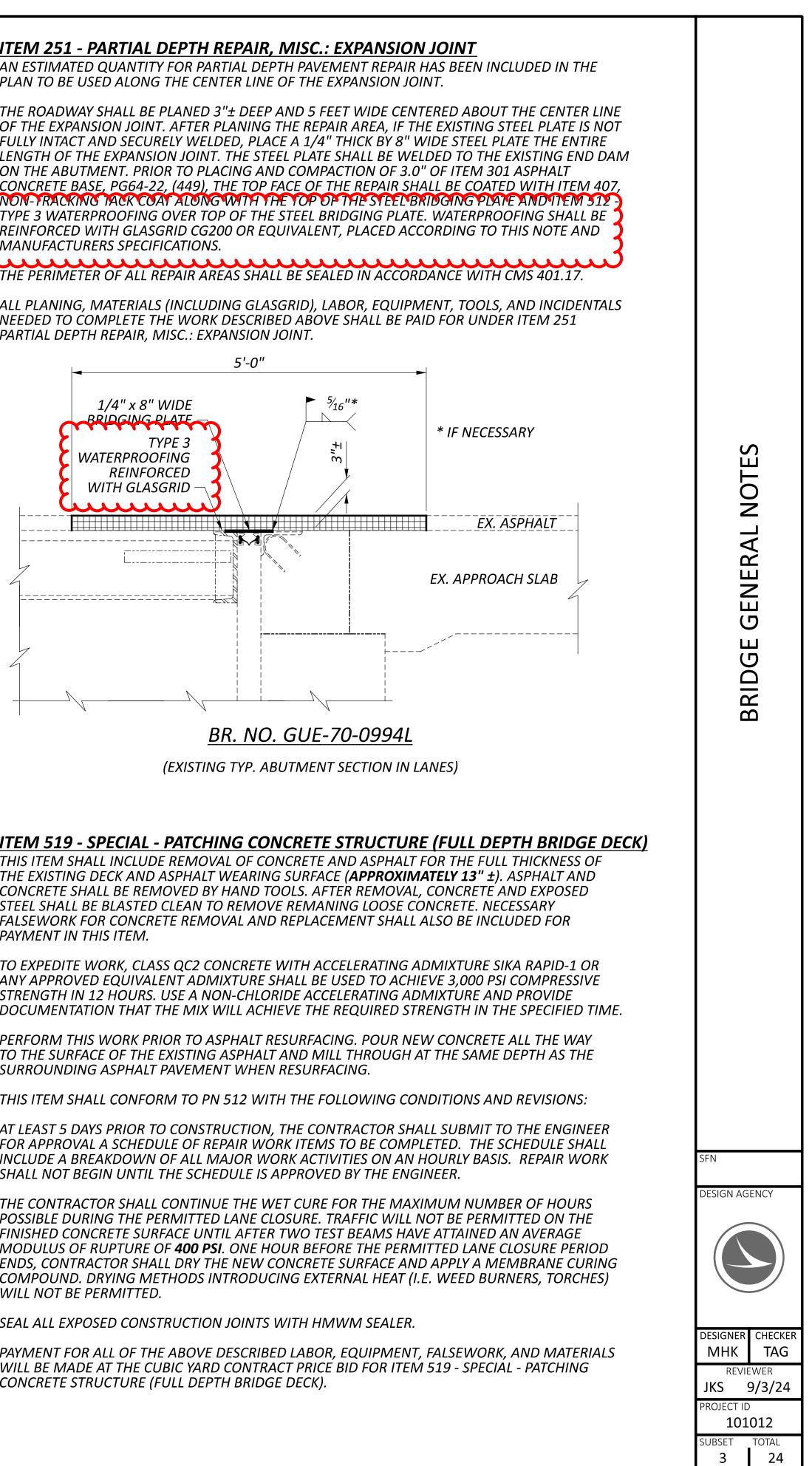
B. COVERAGE:

APPLY SEALER ON HORIZONTAL AND VERTICAL SURFACES BY ROLLING OR BRUSH OPERATION AT A RATE OF A MINIMUM, ONE GALLON FOR EACH 100 SQUARE FEET. COAT ENTIRE SUFACE UNTIL ALL CRACKS AND HOLES ARE COMPLETELY FILLED.

C. PAYMENT:

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE SQUARE FOOT CONTRACT BID FOR ITEM SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT.





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SHEET NUM.								ART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE		
REAR ABUT	FWD ABUT	SUPERSTR	GENERAL	ERAL						02/IMS/13		EXT	TOTAL			NO.
	· · -												1		STRUCTURE REPAIR (GUE-70-09.43A OR SFN 3001202)	
		31								31	202	11401	31	LB	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)	3
	91									91	511	81500	91	CF	CONCRETE, MISC.:, CLASS QC2 WITH ACCELERATING ADMIXTURE, APPROACH SLAB AND BACKWALL REPAIR	2
		1,111								1,111	512	10300	1,111	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
		21								21	F10	10201	21			
		31 4								31	513 513	10201 95000	31 4	FT E	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED SECONDARY MEMBERS, FILLET WELDING	3
		15								15	514	27700	15	SF	FIELD PAINTING, MISC.: SECONDARY MEMBERS	3
	27									27	516	31011	27	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)	2
	81						81	519	11101	81	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	2			
	81         51         6         7 <th7< th="">         7         7         <th7< th=""></th7<></th7<>					51	519	12300	51	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B					
	125	125					125	511	81500	125	CF	STRUCTURE REPAIR (GUE-70-09.43L OR SFN 3001237) CONCRETE, MISC.:, CLASS QC2 WITH ACCELERATING ADMIXTURE, APPROACH SLAB AND BACKWALL REPAIR	2			
										125						
		1,241								1,241	512	10300	1,241	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
	37									37	516	31011	37	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)	2
		61								61	519	12300	61	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
															STRUCTURE REPAIR (GUE-70-09.43R OR SFN 3001261)	
	116									116	511	81500	116	CF	CONCRETE, MISC.:, CLASS QC2 WITH ACCELERATING ADMIXTURE, APPROACH SLAB AND BACKWALL REPAIR	2
		1,271								1,271	512	10300	1,271	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
	34									34	516	31011	34	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)	2
		63								63	519	12300	63	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
															STRUCTURE REPAIR (GUE-70-09.94L OR SFN 3001350)	
		3								3	251	98000	3	СҮ	PARTIAL DEPTH REPAIR, MISC.: EXPANSION JOINT	3
	<u> </u>		mm				m	m								
	<u> </u>	3,023								3,023	SPECIAL	51275010	3,023	SF	SEALING: LIQUID FLEXIBLE SEALANT	3
		3								3	513	95000	3		STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED SECONDARY MEMBERS, FILLET WELDING	3
26	26									52	516	31011	52	FT	2" DEEP JOINT SEALER, AS PER PLAN (C)	2
		2								2	SPECIAL	51911900	2	СҮ	PATCHING CONCRETE STRUCTURE (FULL DEPTH BRIDGE DECK)	3
		222								222	843	50000	222	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
271	271									542	511	81500	542	CF	STRUCTURE REPAIR (GUE-70-09.94R OR SFN 3001385)         CONCRETE, MISC.:, CLASS QC2 WITH ACCELERATING ADMIXTURE, APPROACH SLAB AND BACKWALL REPAIR	2
					·····	m	m	$\frac{1}{2}$	m							
	<b></b> と.	2,778								2,778	SPECIAL	51275010	2,778	SF	SEALING: LIQUID FLEXIBLE SEALANT	5
		12						f		12	516	14500	12	SF	STRUCTURAL JOINT OR JOINT SEALER, MISC.: EXPANDING FOAM	2
80	81									161	516	31011	161	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)	2
294	312									606	519	11101	606	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	<b>)</b>
234		46								46	519	11101	46	SF SY	PATCHING CONCRETE STRUCTURE, AS PER PLAN PATCHING CONCRETE BRIDGE DECK - TYPE B	
		204						_	-	204	843	50000	204	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

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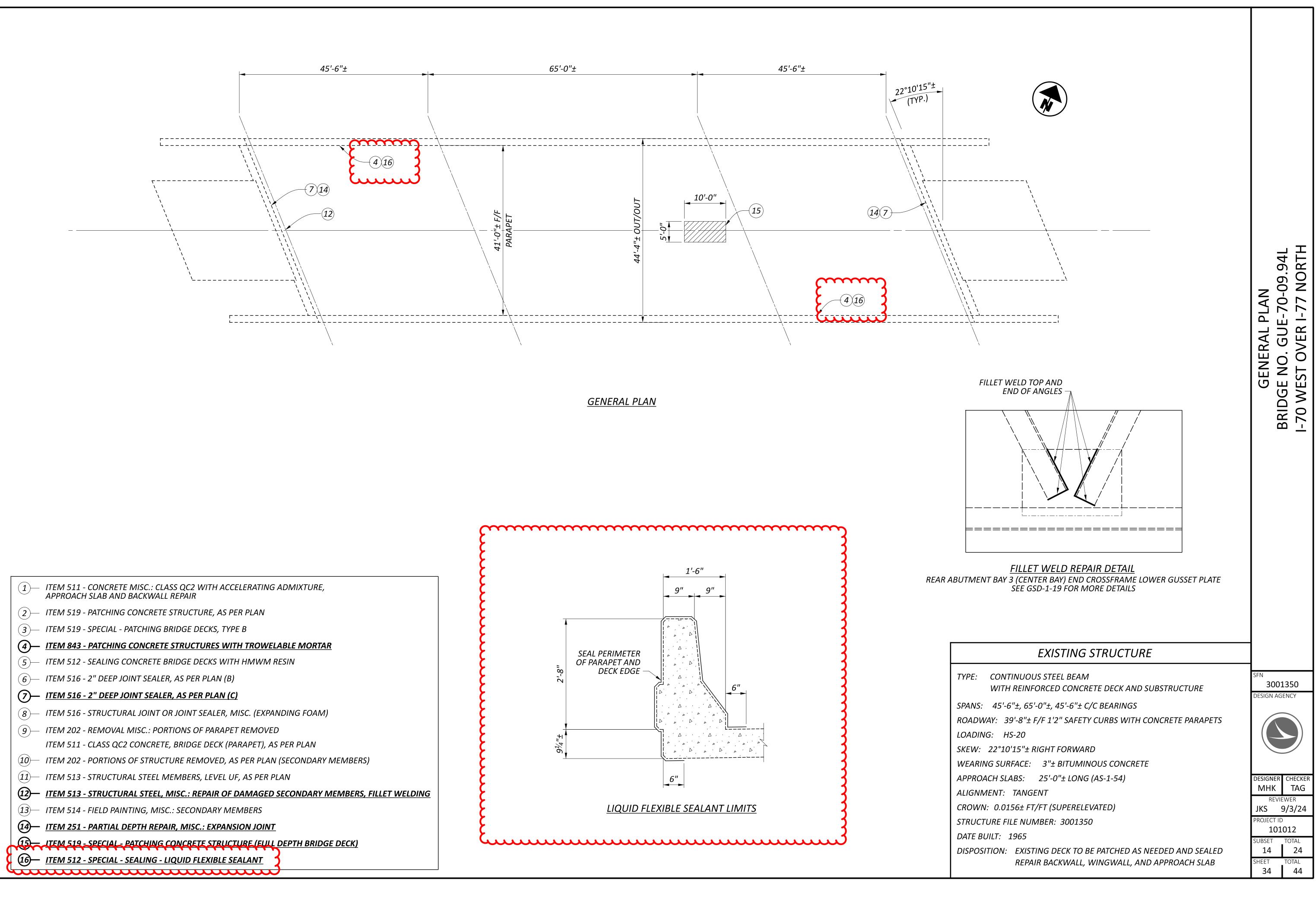
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ITE	M 251 - P	ART	IAL DEPTH	REP	AIR, MISC.: E	EXPA	NSION JOI	NT						
DESCRIPTION	#		L		W		Т		C.F.		CY			
Rear and Forward	2	Х	26	Х	5	Х	0.25	÷	27	=	2.4			
	<u> </u>		II	TC		ED T		LSU	MMAR	Y =	3			
						$\mathbf{m}$			****		*****			
IT	EM 512 - 9	SPE	CIAL - SEAL	ING	- LIQUID FLI	EXIB	LE SEALAN	T						
DESCRIPTION	#		L		W		Т		C.F.		FT			
Parapet perimeter	2	х	185	х	8.17	Х		÷	1	=	3022.9			
	TOTAL CARRIED TO GENERAL SUMMARY													
an man an a														
ITEM 513 - STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED SECONDARY MEMBERS, FILLET WELDING														
DESCRIPTION	#		L		W		Т		C.F.		FT			
Rear Abutment Bay 3	1	х	3	х		Х		÷	1	=	3.0			
TOTAL CARRIED TO GENERAL SUMMARY =														
ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN (C)														
DESCRIPTION	#		L		W		Т		C.F.		FT			
Both Approaches	2	x	26	х		x		÷	1	=	52.0			
				ТС	TAL CARRI	ED T	O GENERA	L SU	MMAR	X =	52			
ITEM 519 - SPEC		CHI		ETE	STRUCTUR	E (FL	JLL DEPTH	BRI	DGE D	ECK	()			
DESCRIPTION	#		L		W		Т		C.F.		CY			
Deck	1	х	10	Х	5	Х	1	÷	27	=	1.9			
				ТС	TAL CARRI	ED T	O GENERA	L SU	MMAR	Y =	2.0			
ITEM 843 - P	ATCHING	CO	NCRETE S	ru		ГН ТІ	ROWELABL	E M	ORTAF	2				
DESCRIPTION	#		L		W		Т		C.F.		SF			
	1	x	370	x	1.5	x		÷	1	=	222.0			
Railing Both Sides	0.4	^	370											

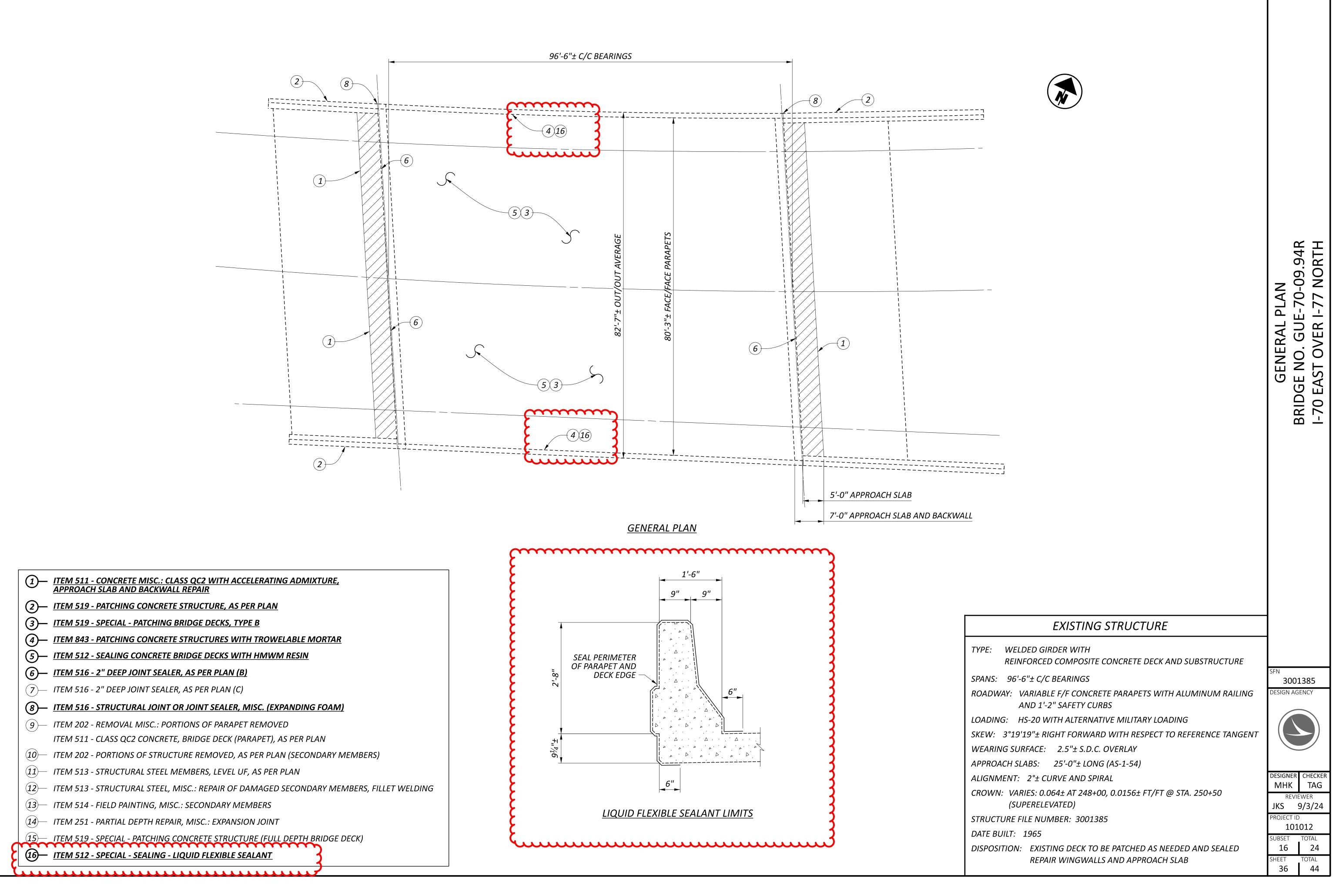
PAPERSIZE: 34x22 (in.) DATE: 12/6/2024 TIME: 1:08:43 PM USER: Jnelson1 ow.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Guernsey\101012\400-Engineering\Structures\SFN\_000000\Shee

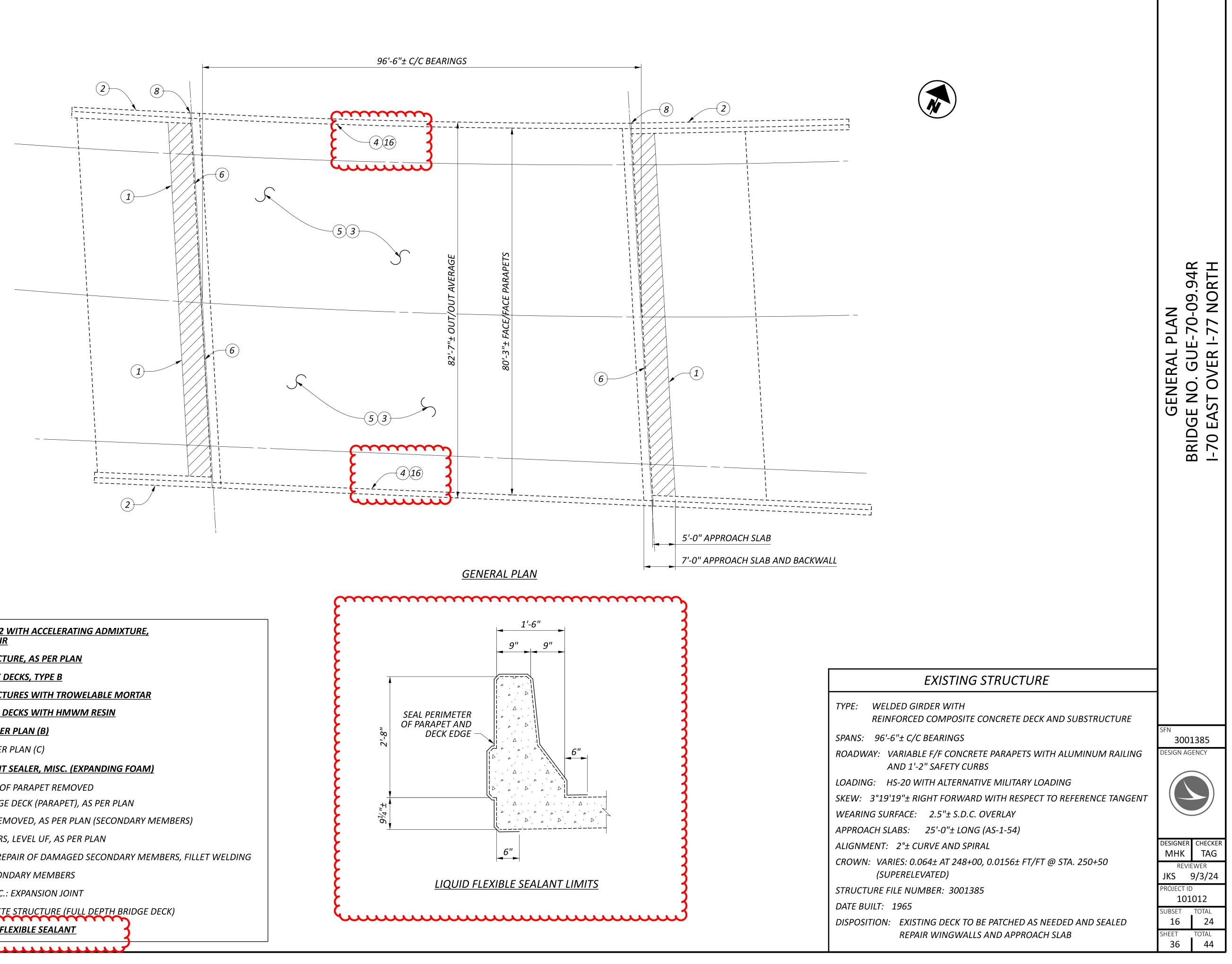
**GUE-70-9.43** MODEL: Sheet PAPERSIZE: 34x22

CALCULATIONS BRIDGE NO. GUE-70-09.94L I-70 WEST OVER I-77 NORTH	
SFN 3001350 DESIGN AGENCY DESIGN AGENCY DESIGNER CHECKER MHK CHECKER MHK TAG REVIEWER JKS 9/3/24 PROJECT ID 101012 SUBSET TOTAL 15 24 SHEET TOTAL 35 44	

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Approach Slabs       2       x       6.75       x       80.25       x       0.5       ÷       1       =         TOTAL CARRIED TO GENERAL SUMMARY         ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN         DESCRIPTION       #       L       W       T       C.F.         Deck Area       1       x       8138       x       Sector       x       9       =         Rear Approach Slab       1       x       25       x       80.25       x       I       =       9       =         TOTAL CARRIED TO GENERAL SUMMARY         Deck Area       1       x       25       x       80.25       x       I       =       9       =         TOTAL CARRIED TO GENERAL SUMMARY         Parapet perimeter <th c<="" th=""><th>= 542 = 904.2 = 222.9 = 1128</th></th>	<th>= 542 = 904.2 = 222.9 = 1128</th>	= 542 = 904.2 = 222.9 = 1128											
ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN         DESCRIPTION       #       L       W       T       C.F.         Deck Area       1       x       8138       x       x       x       i       9       i         Rear Approach Slab       1       x       25       x       80.25       x       i       9       i         TOTAL CARRIED TO GENERAL SUMMARY         ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT         DESCRIPTION       #       L       W       T       C.F.         Description       #       1       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1	SY = 904.2 = 222.9 = 1128												
DESCRIPTION         #         L         W         T         C.F.           Deck Area         1         x         8138         x         x         x         i         9         i           Rear Approach Slab         1         x         25         x         80.25         x         i         9         i           TOTAL CARRIED TO GENERAL SUMMARY           ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT           DESCRIPTION         #         L         W         T         C.F.	<ul> <li>904.2</li> <li>222.9</li> <li>1128</li> </ul>												
DESCRIPTION         #         L         W         T         C.F.           Deck Area         1         x         8138         x         x         x         i         i         9         i           Rear Approach Slab         1         x         25         x         80.25         x         i         i         9         i           TOTAL CARRIED TO GENERAL SUMMARY           ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT           DESCRIPTION         #         L         W         T         C.F.	<ul> <li>904.2</li> <li>222.9</li> <li>1128</li> </ul>												
Deck Area       1       x       8138       x       x       x       i       i       9       i         Rear Approach Slab       1       x       25       x       80.25       x       i       i       9       i         TOTAL CARRIED TO GENERAL SUMMARY         ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT         DESCRIPTION       #       L       W       T       C.F.         Description       4       470       470       470       470       470	<ul> <li>904.2</li> <li>222.9</li> <li>1128</li> </ul>												
Rear Approach Slab     1     x     25     x     80.25     x     ÷     9       TOTAL CARRIED TO GENERAL SUMMARY       ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT       DESCRIPTION     #     L     W     T     C.F.	= 222.9 = 1128												
ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT         DESCRIPTION       #         L       W       T         C.F.	= 1128												
ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT DESCRIPTION # L W T C.F.	••••••												
ITEM 512 - SPECIAL - SEALING - LIQUID FLEXIBLE SEALANT DESCRIPTION # L W T C.F.													
DESCRIPTION # L W T C.F.	SY												
	SY												
Parapet perimeter         2         ×         170         ×         8.17         ×         +         1         =													
	= 2777.8												
TOTAL CARRIED TO GENERAL SUMMARY =													
ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC: EXPANDING FOAM													
DESCRIPTION # L W T C.F.	SF												
Left Side Parapet Gaps       4       x       3       x       1       x       +       1       =	= 12.0												
TOTAL CARRIED TO GENERAL SUMMARY	= 12												
ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN (B)													
DESCRIPTION # L W T C.F.	FT												
Rear Approach         1         x         80.25         x         x         ÷         1         =	= 80.3												
Forward Approach         1         x         80.25         x	= 80.3												

PAPERSIZE: 34x22 (in.) DATE: 12/6/2024 TIME: 1:09:04 PM USER: Jnelson1 ow.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Gue GUE-70-9.43 MODEL: Sheet PAPERSIZE: 34x22 pw:\\ohiodot-pw.bentlev.com:ohi

ITEM 51	19 - PATCH	ING	CONCE	RETE ST	RUC	CTURE,	AS PER	R PL	AN (W	NGWA	LL Sj	)			
DESCRIPTION	#		I	-		V	v			T		C.F.		SF	
Rear Wingwalls	2	x	28		х	5.25		х			÷	1	=	294.0	
Forward Wingwall	1	x	48		х	6.5		х			÷	1	=	312.0	
						TOT	AL CAI	RRIE	D TO C	ENERA	L SI	UMMAF	₹Y =	606	
		0 D	АТСІН		<u>en</u> r	TEDDI		ZC IZ	TVDE	D					
DESCRIPTION	ITEM 51	9 - P		NG CON				UN -	- ITPE	р т		C.F.		SY	
Estimated 5% of Deck Area	0.05	х	8138	-	v	v	v			3		9 9	=	45.2	
Estimated 5% of Deck Area	0.05	^	0130		х	TOT	AL CAP				÷				
						191								UTU.	
ITEM 843	3 - PATCHI	NG C	ONCR	ETE STE	RUC	TURES	WITH T	RO	NELAB	LE MO	RTA	R			
DESCRIPTION	#		I	-		V	v			Г		C.F.		SF	~ -
Railing Both Sides	0.4	х	340		х	1.5		х			÷	1	=	204.0	.94R RTH
						TOT	AL CA	RRIE	D TO C	ENERA	L SI	UMMAF	{Υ =	204.0	60 O I
															CALCULATIONS BRIDGE NO. GUE-70-0 I-70 EAST OVER I-77 N
															SFN
															3001385 DESIGN AGENCY
															DESIGNER CHECKER
															REVIEWER JKS 9/3/24
															PROJECT ID 101012
															SUBSET TOTAL
															SHEET TOTAL
															39 44

DESCRIPTION         #         L         W         T         C.F.         SF           Rear Wingwalls         2         x         28         x         5.25         x         1         =         294.0           Forward Wingwall         1         x         48         x         6.5         x         1         =         294.0           Forward Wingwall         1         x         48         x         6.5         x         1         =         312.0           TOTAL CARRIED TO GENERAL SUMMARY -         606           TEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B           DESCRIPTION         #         L         W         T         C.F.         SY           Estimated 5% of Deck Area         0.05         x         8138         x         _         x         _         \$         9         45.2           TOTAL CARRIED TO GENERAL SUMMARY -         066           TOTAL CARRIED TO GENERAL SUMMARY -         060           TOTAL CARRIED TO GENERAL SUMMARY -         040           TOTAL CARRIED TO GENERAL SUMMARY -         204.0           TOTAL CARRIED TO GENERAL SUMMARY -         204.0
Forward Wingwall       1       x       48       x       6.5       x       ÷       1       =       312.0         TOTAL CARRIED TO GENERAL SUMMARY =       606         ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B         DESCRIPTION       #       L       W       T       C.F.       SY         Estimated 5% of Deck Area       0.05       x       8138       x       x       i       9       =       45.2         TOTAL CARRIED TO GENERAL SUMMARY =       46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         TOTAL CARRIED TO GENERAL SUMMARY =       46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       340       x       1.5       x       ÷       1       =       204.0       YOUTOTAL CARRIED TO GENERAL SUMMARY =       204.0
TOTAL CARRIED TO GENERAL SUMMARY = 606         ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B         DESCRIPTION         #       L       W       T       C.F.       SY         Estimated 5% of Deck Area       0.05       x       8138       x       x       ÷       9       =       45.2         TOTAL CARRIED TO GENERAL SUMMARY =       46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         TOTAL CARRIED TO GENERAL SUMMARY =       46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0
ITEM 519 - PATCHING CONCRETE BRIDGE DECK - TYPE B         DESCRIPTION       #       L       W       T       C.F.       SY         Estimated 5% of Deck Area       0.05       x       8133       x       x       i       ÷       9       =       45.2         TOTAL CARRIED TO GENERAL SUMMARY =       46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       1.5       x       i       1       i       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0
DESCRIPTION       #       L       W       T       C.F.       SY         Estimated 5% of Deck Area       0.05       x       8138       x       x       ÷       9       =       45.2         TOTAL CARRIED TO GENERAL SUMMARY =         HEAD         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       340       x       1.5       x       1       =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0       Y<
DESCRIPTION       #       L       W       T       C.F.       SY         Estimated 5% of Deck Area       0.05       x       8138       x       x       ÷       9       =       45.2         TOTAL CARRIED TO GENERAL SUMMARY =         HEAD         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       340       x       1.5       x       1       =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0       Y<
Estimated 5% of Deck Area       0.05       x       8138       x       x       +       9       =       45.2         TOTAL CARRIED TO GENERAL SUMMARY =       46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF
TOTAL CARRIED TO GENERAL SUMMARY = 46         ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       1.5       x       1       = 204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         CYCOUND S         COUNTAL CARRIED TO GENERAL SUMMARY =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         COUNTAL CARRIED TO GENERAL SUMMARY =       204.0
ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR         DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       1.5       x       1.6       SF         TOTAL CARRIED TO GENERAL SUMMARY = 204.0       YE6 60-02-30.0       YE6 00-02-00.0       YE6 00-02-00.0       YE6 00-02-00.0       YE6 00-02-00.0       YE6 00-02-0.0       YE6 00 YE6 0.0       YE6 00 YE6
DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       340       x       1.5       x       ÷       1       =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         SNOPLY OF COLSPANE         CARCON CL-1 NO.0         CONCUL-1         CONCUL-1         CONCUL-1         CARCON CL-1         CARCON CL-1
DESCRIPTION       #       L       W       T       C.F.       SF         Railing Both Sides       0.4       x       340       x       1.5       x       i       1       =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         SNOPLY 1/2         OUL 1/2         OUL 1/2         X 100         CF.       SF         1       =       204.0         SNOPLY 1/2         OUL 1/2       204.0         SNOPLY 1/2         OUL 1/2         SNOPLY 1/2         OUL 1/2         OUL 1/2         SNOPLY 1/2         SNOPLY 1/2         OUL 1/2
Railing Both Sides       0.4       x       1.5       x       ÷       1       =       204.0         TOTAL CARRIED TO GENERAL SUMMARY =       204.0         SUMMARY =       204.0         COLPO-OL-300 COL-300 COLPO-OL-300 COLPO-OL-300 COLPO-OL-300 COLPO-0L-300 COLPO-0L-300 COLPOLPO-0L-300 COLPO-0L-300 COLP
TOTAL CARRIED TO GENERAL SUMMARY = 204.0 SNOULTONO CALCULATIONS CALCUL
CALCULATIONS GE NO. GUE-77 N
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GE N( BAST
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а С С С
SFN 3001385
DESIGN AGENCY
DESIGNER CHECKER MHK TAG
reviewer JKS 9/3/24
PROJECT ID 101012
SUBSET TOTAL

ITEM 5	19 - PATCH	ING	CONCE	ETE ST	RU	CTURF.	AS PER	2 PI	AN (WI	NGWAI	FS				
DESCRIPTION	#				11.0		V		т.	-		C.F.		SF	
Rear Wingwalls	2	х	28	-	х	5.25	v	х	*			4	=	294.0	
Forward Wingwall		×	48		×	6.5		×			÷	1	=	312.0	
r or wara wingwai		^	40		^				D TO G	ENERA					
	ITEM 51	9 - P	ATCHI	IG CON	ICRI	ete Bri	DGE DE	СК	- TYPE E	3		•••••••••••••••••		***********	
DESCRIPTION	#		I	_		V	v		Т			C.F.		SY	
Estimated 5% of Deck Area	0.05	х	8138		х			х			÷	9	=	45.2	
						TOT	AL CAF	RRIE	D TO G	ENERA	L SU	IMMAR	(Y =	46	
ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR															
ITEM 843	3 - PATCHI	NG C	ONCR	ETE STR	RUC	TURES	WITH T	RO	WELABI	LE MOF	RTA	R			
DESCRIPTION	#		l	_		V	v		Т			C.F.		SF	<u>с</u> т
Railing Both Sides	0.4	х	340		х	1.5		х			÷	1	=	204.0	94R RTH
						TOT	TAL CAF	RRIE	D TO G	enera	L SU	IMMAR	₹Y =	204.0	S 09. NO.
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															3001385 DESIGN AGENCY
															DESIGNER CHECKER
															MHK TAG REVIEWER
															JKS         9/3/24           PROJECT ID         10
															101012
															SUBSET TOTAL 19 24