

ITEM SPECIAL STRUCTURES: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION (CONT'D)

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL STRUCTURES: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES. ITEM 607 - VANDAL PROTECTION FENCE REMOVED AND RESET

THIS ITEM INCLUDES TEMPORARY REMOVAL OF VANDAL FENCE POSTS, FABRIC, BASE PLATES ETC. AS NEEDED TO PERFORM STRUCTURE REPAIRS. THESE DISMANLED ITEMS SHALL BE STORED FOR RE-USE OFF OF THE GROUND AND PROTECTED FROM THEFT. ONCE REPAIRS ARE COMPLETED. THE VANDAL FENCE SHALL BE RE-ERECTED. EXISTING BASE PLATES SHALL BE RESET USING NEW ANCHOR BOLTS THAT ARE DRILLED AND DOWELED INTO THE NEW CONCRETE PARAPET PER CMS 510. SECTIONS OF FENCE FABRIC SHALL BE WEAVED BACK TOGETHER USING WIRE MATERIAL THAT MATCHES EXISTING. EXISTING POST SPACING SHALL BE MAINTAINED. EXISTING VANDAL FENCE BASE PLATE ANCHOR BOLTS LOCATED IN AN EXISTING UNDAMAGED SECTION OF CONCRETE PARAPET MAY BE **RE-USED IF DETERMINED TO BE IN SATISFACTORY** CONDITION AND ANCHORED IN SOUND CONCRETE OTHERWISE THEY SHALL BE REPLACED WITH NEW GROUTED ANCHOR BOLTS.

PAYMENT FOR THIS WORK SHALL INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR NECESSARY TO PERFORM THIS TASK. PAYMENT SHALL BE MADE AT THE BID PRICE PER FOOT.

ITEM 517 - RAILING, MISC.: BRIDGE RAILING REMOVED AND RESET

THIS ITEM INCLUDES TEMPORARY REMOVAL OF EXISTING PARAPET RAILING AND RAILING POSTS AS NEEDED TO PERFORM STRUCTURE REPAIRS. THESE DISMANLED ITEMS SHALL BE STORED FOR RE-USE OFF OF THE GROUND AND PROTECTED FROM THEFT. ONCE REPAIRS ARE COMPLETED, THE RAILING SHALL BE RE-ERECTED. EXISTING RAILING POSTS SHALL BE RESET USING NEW ANCHOR BOLTS THAT ARE DRILLED AND DOWELED INTO THE NEW CONCRETE PARAPET PER CMS 510. EXISTING RAIL POST ANCHOR BOLTS LOCATED IN AN EXISTING UNDAMAGED SECTION OF CONCRETE PARAPET MAY BE RE-USED IF DETERMINED TO BE IN SATISFACTORY CONDITION AND ANCHORED IN SOUND CONCRETE OTHERWISE THEY SHALL BE REPLACED WITH NEW GROUTED ANCHOR BOLTS.

PAYMENT FOR THIS WORK SHALL INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR NECESSARY TO PERFORM THIS TASK. PAYMENT SHALL BE MADE AT THE BID PRICE PER FOOT.

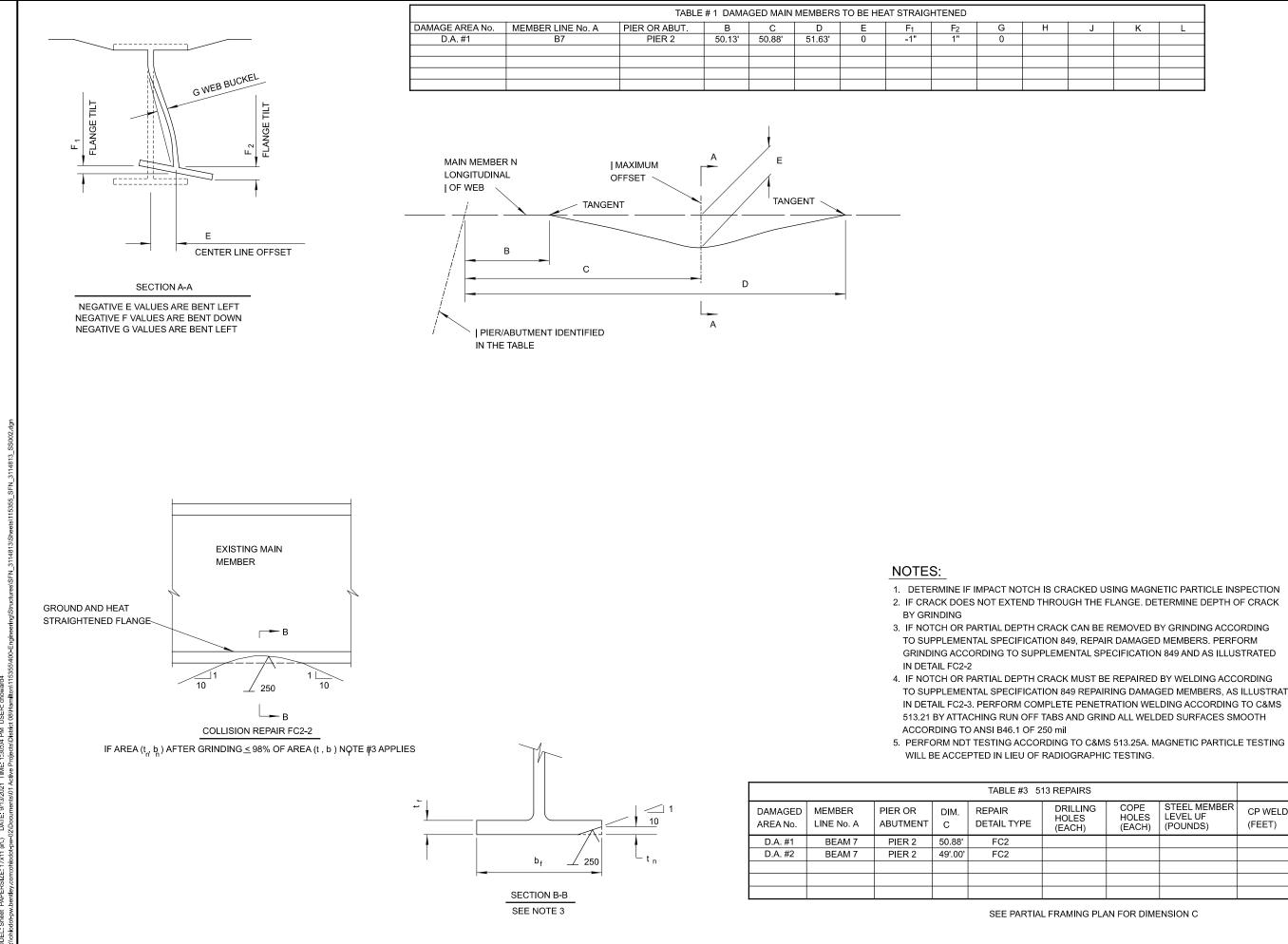


	ESTIMATED QUANTITIES - STRUCTURE No.: HAM-71-6.75 (100%									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL		
514	10000	1	EACH	FINAL INSPECTION REPAIR			1			
514	20001	4	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (TWO COAT)			4			
849	10000	LS	LUMP	DAMAGE ASSESSMENT			LUMP			
849	10500	LS	LUMP	SURFACE PREPARATION			LUMP			
849	10600	2	HOURS	REPAIRING DAMAGED MEMBER BY GRINDING			2			
849	10700	LS	LUMP	STRAIGHTENING DAMAGED MEMBER			LUMP			

	ESTIMATED QUANTITIES - STRUCTURE No.: HAM-71-6.75 (REPAIR NOT ASSOCIATED WITH THE BRIDGE HIT) (100% 02/IMS									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL		
514	10000	1	EACH	FINAL INSPECTION REPAIR			1			
514	20001	4	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (TWO COAT)			4			
849	10000	LS	LUMP	DAMAGE ASSESSMENT			LUMP			
849	10500	LS	LUMP	SURFACE PREPARATION			LUMP			
849	10600	2	HOURS	REPAIRING DAMAGED MEMBER BY GRINDING			2			

	ESTIMATED QUANTITIES - STRUCTURE No.: HAM-71-7.31						MS/BR FUNDING)	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAI
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP	
202	11501	1	EACH	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (MAIN MEMBERS)			1	
202	11501	23	EACH	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SECONDARY MEMBERS)			23	
509	10000	5940	POUND	EPOXY COATED REINFORCING STEEL			5,940	
510	10000	338	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALIC GROUT			338	1
								1
511	21522	27	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE			27	
512	10300	12	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN			12	
512	74500	1200	FT	REMOVAL OF EXISTING PAVEMENT MARKING			1200	1
513	10200	1700	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			1700	1
513	10280	11550	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4			11550	I
513	95000	46	FT	STRUCTURAL STEEL MISC.: REPAIR OF MAIN AND SECONDARY MEMBERS, FILLET WELDING			46	
514	10000	1	EACH	FINAL INSPECTION REPAIR			1	
514	20001	826	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (TWO COAT)			826	
516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF STRUCTURE, AS PER PLAN			LUMP	1
517	76300	75	FT	RAILING, MISC.: BRIDGE RAILING REMOVED AND RESET			75	
690	98400	LS	LUMP	SPECIAL - STRUCTURES: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION			LUMP	
849	10000	LS	LUMP	DAMAGE ASSESSMENT			LUMP	I
849	10500	LS	LUMP	SURFACE PREPARATION			LUMP	
849	10600	10	HOURS	REPAIRING DAMAGED MEMBER BY GRINDING			10	
849	10700	LS	LUMP	STRAIGHTENING DAMAGED MEMBER			LUMP	
				ITEMS CARRIED TO GENERAL SUMMARY				
202		75	FT	VANDAL PROTECTION FENCE REMOVED AND RESET			75	
202		348	FT	REMOVAL, MISC: ASBESTOS TELECOM CONDUITS			348	
607		400	FT	TEMPORARY VANDAL FENCE, TYPE B			400	
625		348	FT	CONDUIT, 3 1/2", 625.04			348	
								µ

	BRIDGE No.: HAM-71-6.75 & HAM-71-7.31	EDMONSON RD. & ROBERTSON AVE. OVER I-71
31148 DESIGN		14902
XXX PROJEC	H MM-I MM-I 1535 TO TO	GTF ≣R DD-YY



1:30:04 PM USER: choward4 9/13/2021 TIME: DATE: HAM-71-6.75/7.31 17x11 (in.) RSIZE:

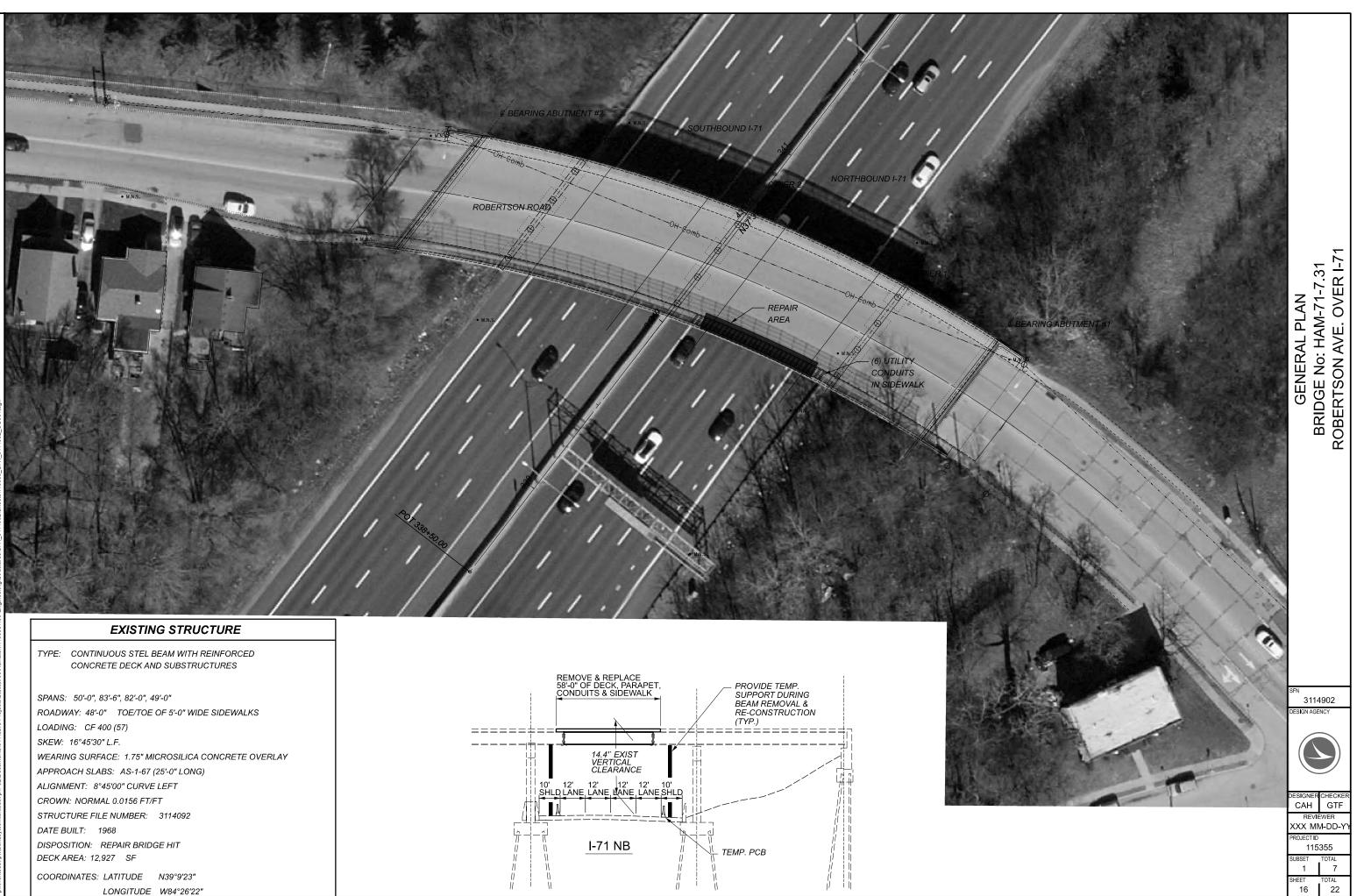
J	К	L

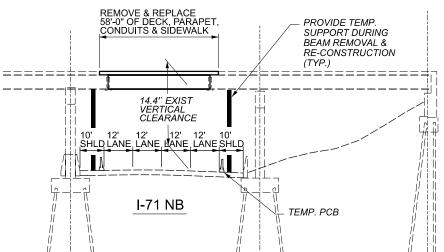
STRUCTURE REPAIR DETAILS BRIDGE No: HAM-71-6.75 EDMONSON RD. OVER I-71
SFN 3114813 DESIGN AGENCY
DESIGNER CHECKER CAH GTF REVIEWER XXX MM-DD-YY PROJECTID 115355 SUBSET TOTAL

15 22

TO SUPPLEMENTAL SPECIFICATION 849 REPAIRING DAMAGED MEMBERS, AS ILLUSTRATED

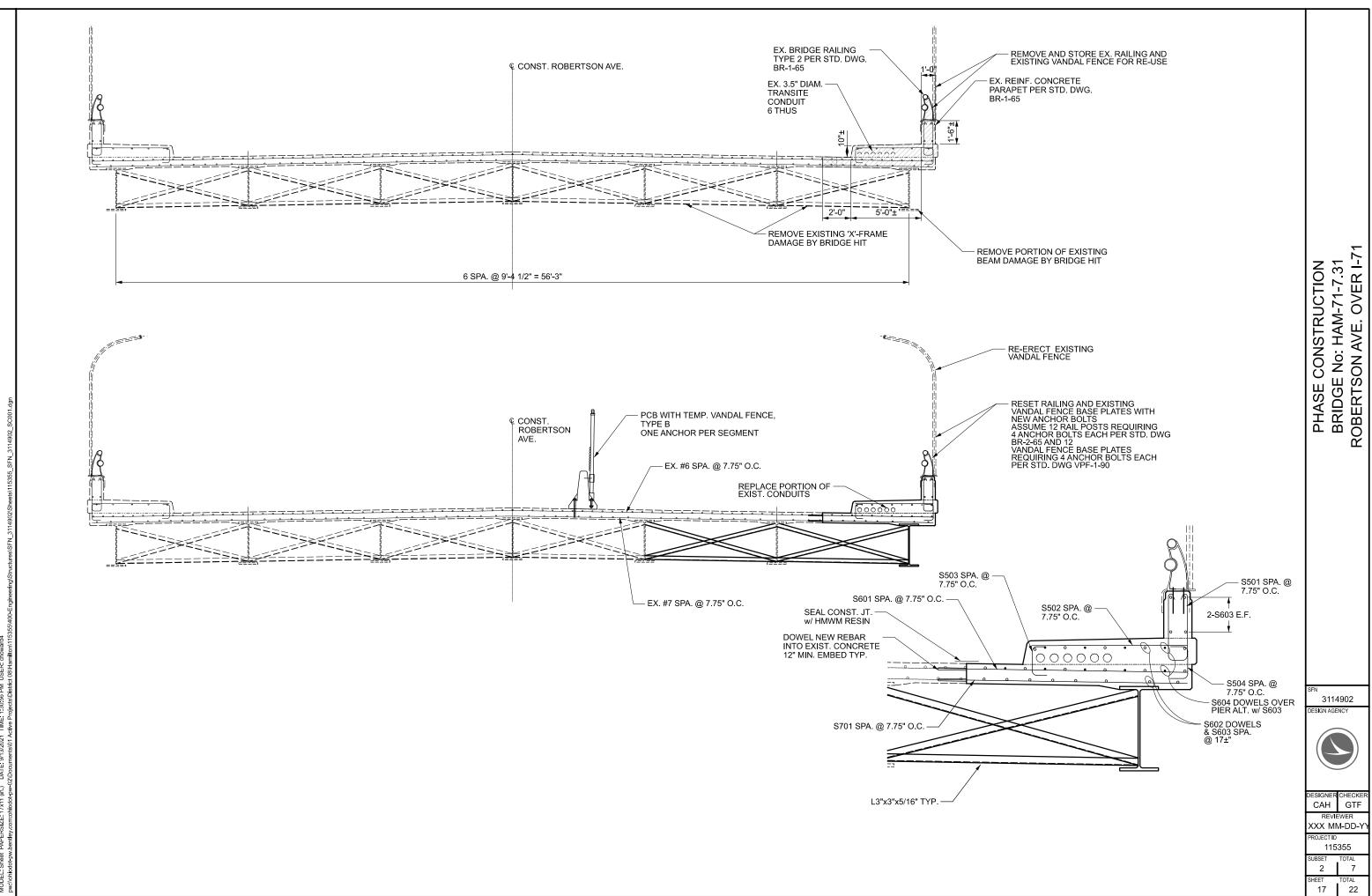
s				
1G	COPE HOLES (EACH)	STEEL MEMBER LEVEL UF (POUNDS)	CP WELD (FEET)	FILLET WELD (FEET)





1:30:32 PM 1 TIME: DATE: 9/13/2021 17x11 (in.) PAPERSIZE:

HAM-71-6.75/7.31

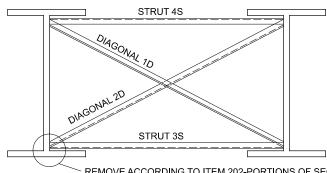


1:30:56 PM USER: DATE: 9/13/2021 TIME: MDocuments/01 Active Pr HAM-71-6.75/7.31 17x11 (in.) APERSIZE

NOTES:

- 1. 2. **BY GRINDING**
- 3.
- 4. 5.

	TABLE #3 513 REPAIRS										
DAMAGED AREA No.			DRILLING HOLES (EACH)	COPE HOLES (EACH)	STEEL MEMBER LEVEL UF (POUNDS)	CP WELD (FEET)	FILLET WELD (FEET)				
1	BEAM 4	PIER 1	25.8'	FC2							
2	BEAM 5	PIER 1	27.4'	FC2							
3	3 BEAM 6 PIER 1		41.6'	FC2							



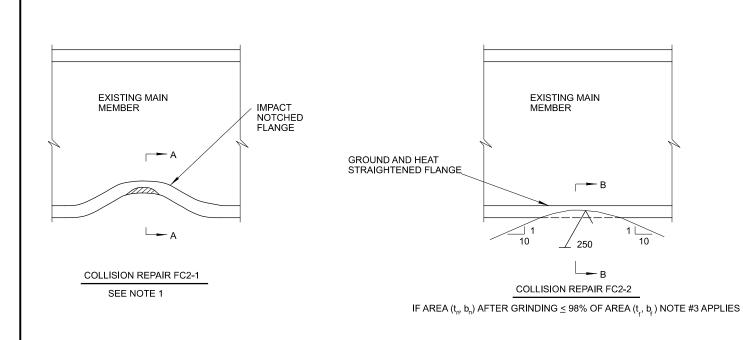
REMOVE ACCORDING TO ITEM 202-PORTIONS OF SECONDARY MEMBERS REMOVED, AS PER PLAN. REPLACE BY MATCHING EXISTING DETAIL. SEE GSD-1-96 FOR ADDITIONAL CLARIFICATION.

MAIN AND SECONDARY MEMBER DAMAGE IS NOT SHOWN. FOR CLARITY SEE SECTION A-A

SECTION B-B

SECONDARY MEMBER BAY No. M

N- NUMBER OF CROSSFRAME BRACES COUNTED FROM THE PIER OR ABUTMENT IDENTIFIED IN TABLE



^bN b_f

SECTION A-A SEE NOTE 1 THROUGH 4 FLANGE NOT SHOWN WITH BEND FOR CLARITY

TABLE #2 DAMAGED SECONDARY MEMBER TO BE REPLACED											
CROSSFRAME BAY M	PIER/ABUT.	N	1D	2D	35	4S					
BAY 4	PIER 1	3	9.46'	9.46'	9.08'						
BAY 5	PIER 1	4	9.46'	9.46'	9.08'						
BAY 6	PIER 1	2	9.46'	9.46'	9.08'	9.08'					
BAY 6	PIER 1	3	9.46'	9.46'	9.08'						
BAY 6	PIER 1	4	9.46'	9.46'	9.08'						
BAY 6	PIER 1	5	9.46'	9.46'	9.08'						
BAY 6	PIER 1	6	9.46'	9.46'	9.08'	9.08'					

SECTION B-B SEE NOTE 3

	TABLE # 1 DAMAGED MAIN MEMBERS TO BE HEAT STRAIGHTENED												
DAMAGE AREA No. MEMBER LINE No. A PIER OR ABUT. B C D E F1 F2 G H J K											L		
1	BEAM 6	PIER 1	40.3'	41.6'	42.9'		- 0.5"	+ 0.5"					

 \sim 10

1:31:28 PM USER: choward4 DATE: 9/13/2021 TIME: Mocriments/01 Active Pr HAM-71-6.75/7.31 17x11 (in.) PAPERSIZE:

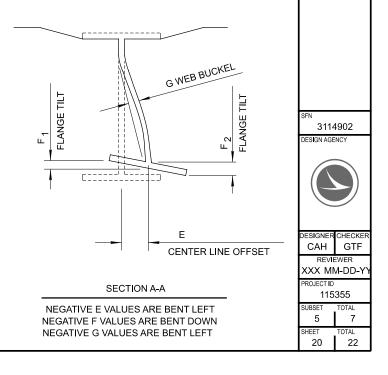
DETERMINE IF IMPACT NOTCH IS CRACKED USING MAGNETIC PARTICLE INSPECTION IF CRACK DOES NOT EXTEND THROUGH THE FLANGE. DETERMINE DEPTH OF CRACK

IF NOTCH OR PARTIAL DEPTH CRACK CAN BE REMOVED BY GRINDING ACCORDING TO SUPPLEMENTAL SPECIFICATION 849, REPAIR DAMAGED MEMBERS. PERFORM GRINDING ACCORDING TO SUPPLEMENTAL SPECIFICATION 849 AND AS ILLUSTRATED IN DETAIL FC2-2

TO SUPPLEMENTAL SPECIFICATION 849 REPAIRING DAMAGED MEMBERS, AS ILLUSTRATED IN DETAIL FC2-3. PERFORM COMPLETE PENETRATION WELDING ACCORDING TO C&MS 513.21 BY ATTACHING RUN OFF TABS AND GRIND ALL WELDED SURFACES SMOOTH

ACCORDING TO ANSI B46.1 OF 250 mil PERFORM NDT TESTING ACCORDING TO C&MS 513.25A. MAGNETIC PARTICLE TESTING WILL BE ACCEPTED IN LIEU OF RADIOGRAPHIC TESTING.

SEE PARTIAL FRAMING PLAN FOR DIMENSION C



S

STRUCTURE REPAIR DETAILS BRIDGE No: HAM-71-7.31 ROBERTSON AVE. OVER I-71