

I:\Project+Data\00689\_BRDG-REP-FY21\Design\Roadway\Sheets\00689\_cg001.dgn Sheet 2/22/2021 9:18:04 AM b\_fir's

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
											01/NHS/BR	02/IMS/BR							
											LS	LS	201	11000	LS		<b>ROADWAY</b> CLEARING AND GRUBBING		
																	<b>EROSION CONTROL</b> EROSION CONTROL		
												1,000	832	30000	1,000	EACH			
																	<b>PAVEMENT</b> PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH		
												5,545	254	01000	5,545	SY			
												1,350	254	01010	1,350	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH		
																	TACK COAT, 702.13		
												566	407	13900	566	GAL			
												379	407	20000	379	GAL	NON-TRACKING TACK COAT		
																	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)		
												147	442	20000	147	CY			
												412	SPECIAL	69012050	412	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	8	
																	<b>TRAFFIC CONTROL</b> EDGE LINE, 6", TYPE 1		
												0.42	642	00104	0.42	MILE			
												0.42	642	00204	0.42	MILE	LANE LINE, 6", TYPE 1		
																	<b>STRUCTURE REPAIR (FRA-3-1744)</b> REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	12	
												200	509	20001	200	LB			
												920	SPECIAL	51900100	920	SF	COMPOSITE FIBER WRAP SYSTEM	12	
												400	519	11100	400	SF	PATCHING CONCRETE STRUCTURE, PIERS		
												600	844	10000	600	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION		
																	<b>STRUCTURE REPAIR (FRA-71-2008)</b> PORTIONS OF STRUCTURE REMOVED		
												LS	202	11200	LS				
												31	512	10100	31	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
																	<b>STRUCTURE REPAIR (FRA-71-2075)</b> PATCHING CONCRETE STRUCTURE, AS PER PLAN	9	
												160	519	11101	160	SF			
																	<b>STRUCTURE REPAIR (FRA-71-2346)</b> PORTIONS OF STRUCTURE REMOVED		
												LS	202	11200	LS				
												214	512	10100	214	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
																	<b>STRUCTURE REPAIR (FRA-71-2446)</b> PATCHING CONCRETE BRIDGE DECK - TYPE B		
												120	519	12300	120	SY			
																	<b>STRUCTURE REPAIR (FRA-71-2646)</b> PATCHING CONCRETE BRIDGE DECK - TYPE B		
												60	519	12300	60	SY			
																	<b>STRUCTURE REPAIR (UNI-4-1320)</b> PORTIONS OF STRUCTURE REMOVED		
												LS	202	11200	LS				
												21	512	10100	21	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
																	<b>MAINTENANCE OF TRAFFIC</b> LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
												16	96	614	1110	112	SNMT		
												0.25	1.75	614	18601	2		PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	5
																	<b>INCIDENTALS</b> MAINTAINING TRAFFIC		
												LS	LS	614	11000	LS			
												LS	LS	623	10000	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING		
												LS	LS	624	10000	LS	MOBILIZATION		

GENERAL SUMMARY

D06 FY21  
BRIDGE REPAIR

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION

844 DATED/REVISED 4/20/18

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES 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 CMS SECTIONS 102.05, 105.02, AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF 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 WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 519 PATCHING CONCRETE STRUCTURE, AS PER PLAN

ALL SPECIFICATIONS FOR ITEM 519 PATCHING OF CONCRETE STRUCTURES SHALL APPLY EXCEPT AS CHANGED IN THIS NOTE.

THE CONTRACTOR SHALL REMOVE BACKWALL CONCRETE FOR STRUCTURE FRA-71-2075 TO A NOMINAL DEPTH OF 4" WITH A CLEARANCE OF 1" AROUND EXPOSED REINFORCING STEEL. CLEARANCE MAY BE REDUCED TO 1/2" IF THE PATCHING CONCRETE USED USES NO. 8 COARSE AGGREGATE.

THE CONCRETE USED FOR PATCHING SHALL BE QC FS CONFORMING TO REQUIREMENTS OF CMS 499.

ITEM 690 SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS

THIS ITEM SHALL BE USED TO REINFORCE THE TRANSVERSE JOINTS. PLACE REINFORCING MESH ON PROPOSED SURFACE AS SHOWN ON SHEETS 2/12, 3/12, 6/12, AND 10/12 5'-0" WIDE, ALONG THE LENGTHS SHOWN (MEASURED ALONG THE SKEW), AND CENTERED ON THE JOINT. APPLY A TACK COAT TO MAXIMIZE THE BOND BETWEEN THE TWO ADJOINING SURFACES. AFTER PLACEMENT OF THE REINFORCED JOINT MESH, PLACE THE ASPHALT CONCRETE AS SHOWN ON THE PLANS.

THE REINFORCED JOINT MESH MATERIAL SHALL BE GLASGRID 8512 OR MACGRID AR 20.7. THE REINFORCED JOINT MESH AND TACK COAT SHALL BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

PAYMENT FOR THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE UNIT BID PRICE (SQUARE YARD) FOR ITEM 690 SPECIAL - REINFORCED MESH FOR TRANSVERSE/LONGITUDINAL JOINTS AND CRACKS.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN (FRA-3-1744)

AN ESTIMATED QUANTITY FOR NEW REINFORCING STEEL HAS BEEN PROVIDED TO REPLACE ANY EXISTING REINFORCING STEEL WHICH HAS BEEN DEEMED UNUSABLE BY THE ENGINEER DUE TO CORROSION.

ANY EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED AS DIRECTED BY THE ENGINEER, WITH NEW REINFORCING STEEL OF THE SAME SIZE AT NO ADITONAL COST TO THE DEPARTMENT.

ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (UNI-4-1320)

ALL SPECIFICATIONS FOR ITEM 202 PORTIONS OF STRUCTURE REMOVED SHALL APPLY EXCEPT AS CHANGED IN THIS NOTE.

THE CONTRACTOR SHALL REMOVE CONCRETE "BUMPOUTS" ABOVE AND BELOW "CITY OF MARYSVILLE" AS DETAILED ON SHEET 12/12. THE "BUMPOUTS" SHALL BE REMOVED FLUSH BY SAW CUTS.

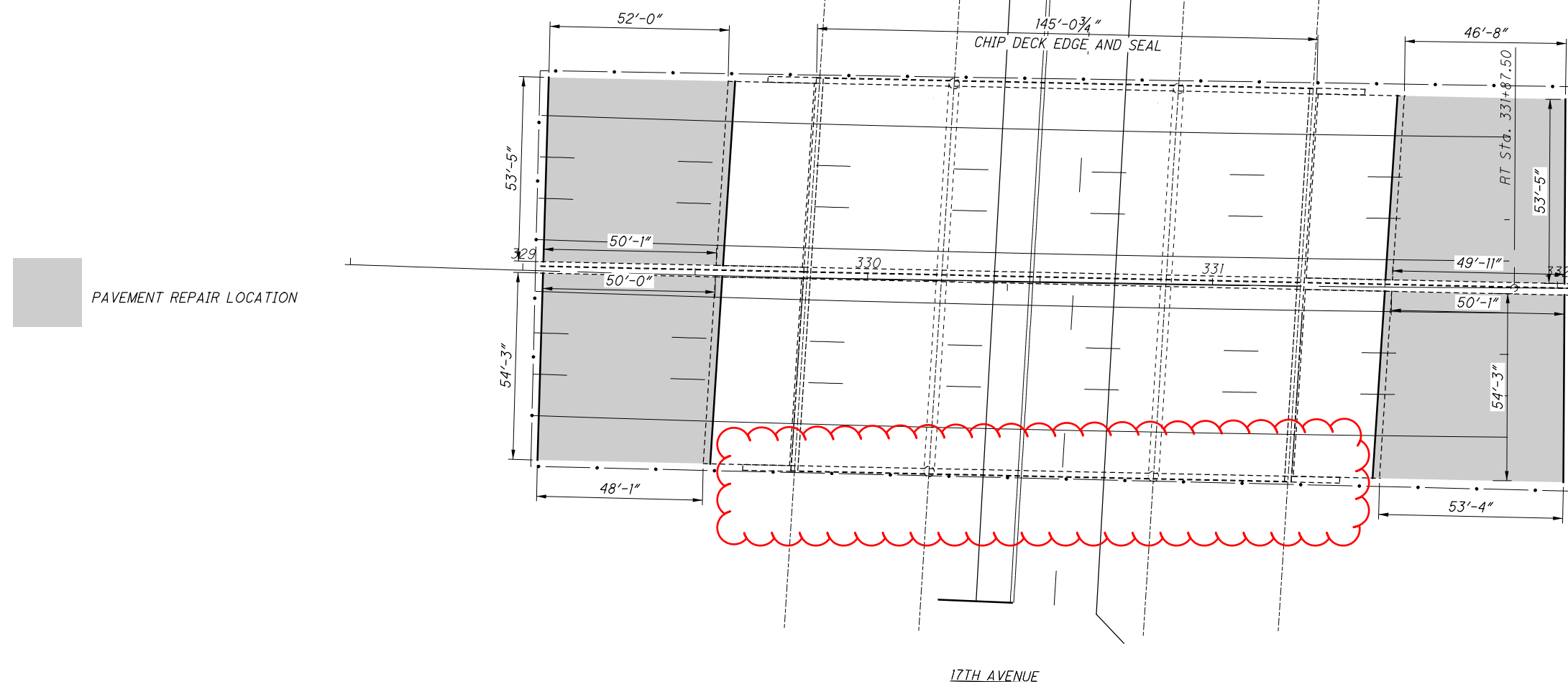
IF ANY DAMAGE IS DONE TO THE EXISTING LETTERING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESEAL THE DAMAGED AREA WITH EPOXY-URETHANE THAT MATCHES THE COLOR OF THE EXISTING LETTERING AT NO ADDITIONAL COST TO THE DEPARTMENT.

ITEM	EXTENSION	PART		TOTAL	UNIT	DESCRIPTION	SHEET #
		01/NHS/BR	02/IMS/BR				
<b>UNI-4-1320 SFN 8000093</b>							
202	11200	LS		LS	LS	PORTIONS OF STRUCTURE REMOVED	
512	10100	21		21	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
<b>FRA-3-1744 SFN 2500094</b>							
509	20001		200	200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	
SPECIAL	51900100		920	920	SF	COMPOSITE FIBER WRAP SYSTEM	
519	11100		400	400	SF	PATCHING CONCRETE STRUCTURE, PIERS	
844	10000		600	600	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	
<b>FRA-71-2008 SFN 2507951</b>							
202	11200		LS	LS	LS	PORTIONS OF STRUCTURE REMOVED	
254	01000		1197	1,197	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH	
254	01010		48	48	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH	
407	13900		105	105	GAL	TACK COAT, 702.13	
407	20000		68	68	GAL	NON-TRACKING TACK COAT	
442	20000		26	26	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (1.5" THICKNESS)	
512	10100		31	31	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
<b>FRA-71-2075 SFN 2507986</b>							
254	01000		784	784	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH	
254	01010		400	400	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH	
407	13900		95	95	GAL	TACK COAT, 702.13	
407	20000		65	65	GAL	NON-TRACKING TACK COAT	
442	20000		28	28	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (1.5" THICKNESS)	
519	11101		160	160	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	
SPECIAL	69012050		80	80	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	
<b>FRA-71-2346 L&amp;R SFN 2508133 &amp; 2508168</b>							
202	11200		LS	LS	LS	PORTIONS OF STRUCTURE REMOVED	
254	01000		907	907	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH	
254	01010		400	400	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH	
407	13900		105	105	GAL	TACK COAT, 702.13	
407	20000		72	72	GAL	NON-TRACKING TACK COAT	
442	20000		27	27	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (1.5" THICKNESS)	
512	10100		214	214	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
SPECIAL	69012050		85	85	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	
<b>FRA-71-2446 L&amp;R SFN 2508192 &amp; 2508222</b>							
254	01000		1090	1,090	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH	
254	01010		439	439	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH	
407	13900		123	123	GAL	TACK COAT, 702.13	
407	20000		84	84	GAL	NON-TRACKING TACK COAT	
442	20000		32	32	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (1.5" THICKNESS)	
519	12300		120	120	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
SPECIAL	69012050		90	90	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	
<b>FRA-71-2646 SFN 2508257</b>							
254	01000		1567	1,567	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH	
254	01010		63	63	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH	
407	13900		138	138	GAL	TACK COAT, 702.13	
407	20000		90	90	GAL	NON-TRACKING TACK COAT	
442	20000		34	34	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (1.5" THICKNESS)	
519	12300		60	60	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	
SPECIAL	69012050		157	157	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	
QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY							

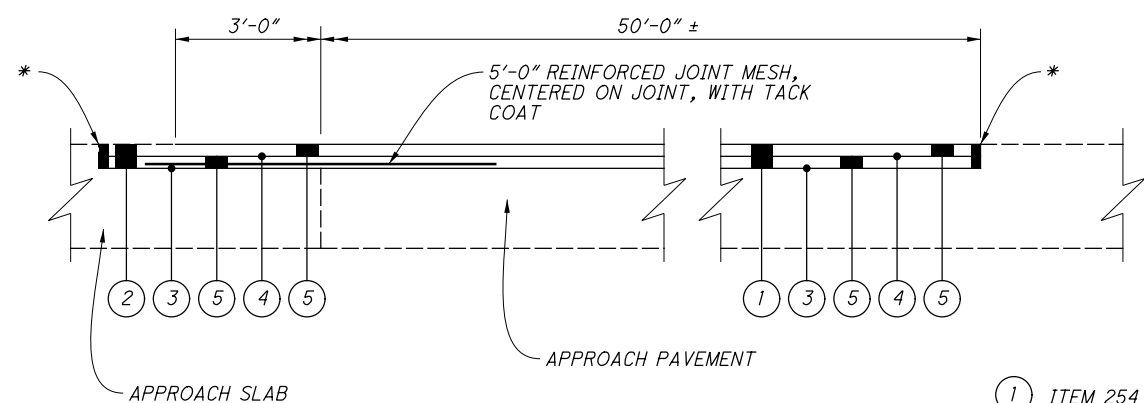
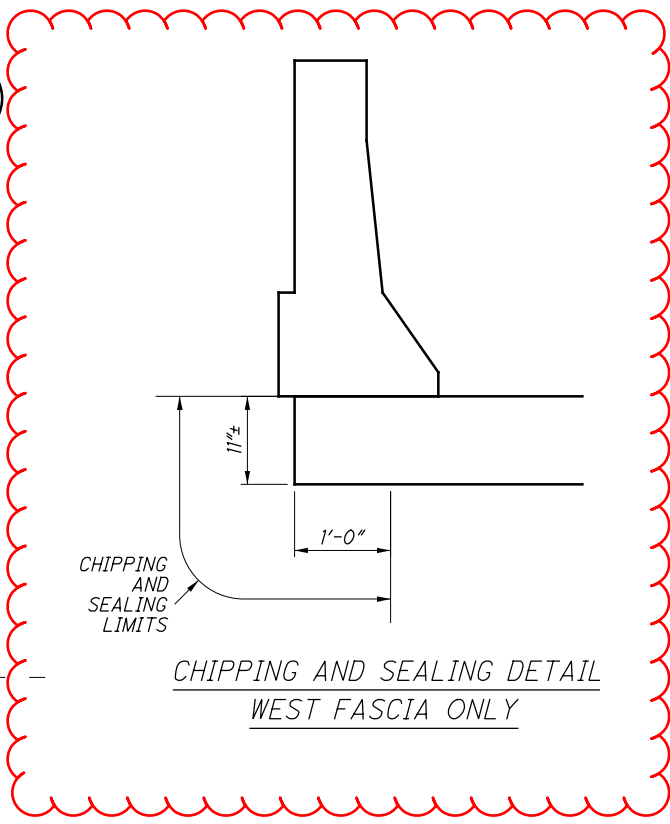
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DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6
DATE 11/28/20 STRUCTURE FILE NUMBER 00000
REVIEWED KRF STRUCTURE FILE NUMBER 00000
DRAWN BLF REVISION XXX
DESIGNED BLF CHECKED CAB
BRIDGE NOTES AND ESTIMATED QUANTITIES SHEET TITLE 2 SHEET TITLE 3
D06 FY21 BRIDGE REPAIR PID No. 100689
1 / 12
8 19

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PAVEMENT REPAIR LOCATION



**PAVEMENT SECTION**

\* - SEAL THE PERIMETER SURFACE OF THE REPAIRED AREA BY APPLYING A 2 TO 4 INCH WIDE STRIP OF APPROVED 705.04 MATERIAL OR 702.01 APPROVED PG BINDER.

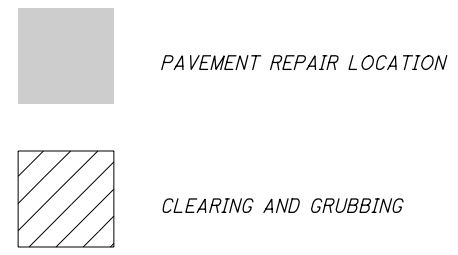
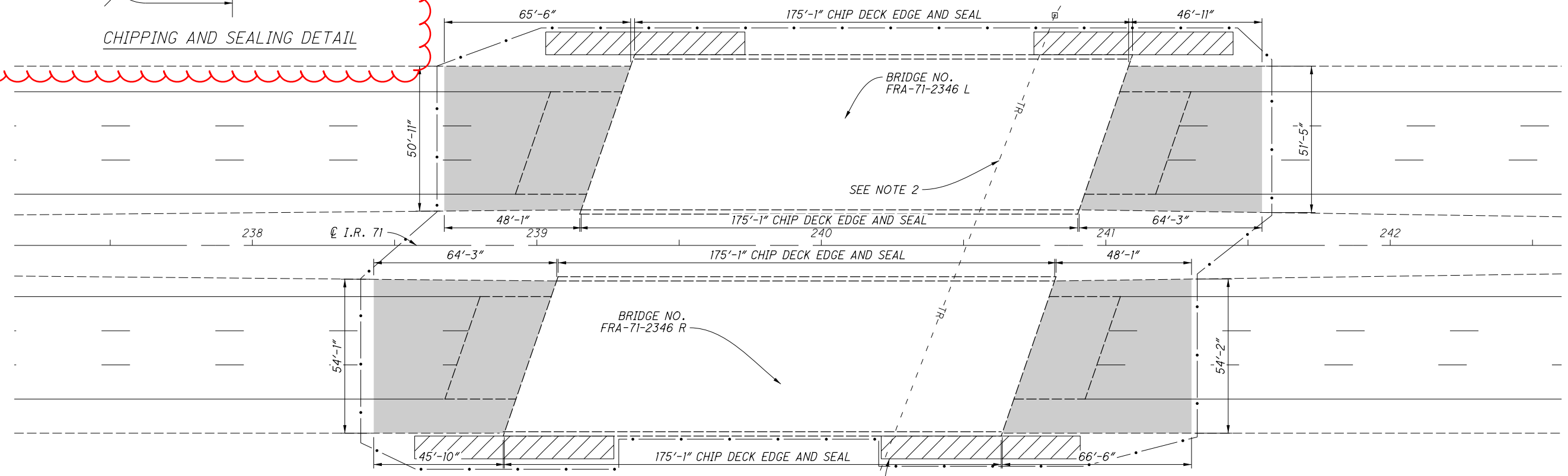
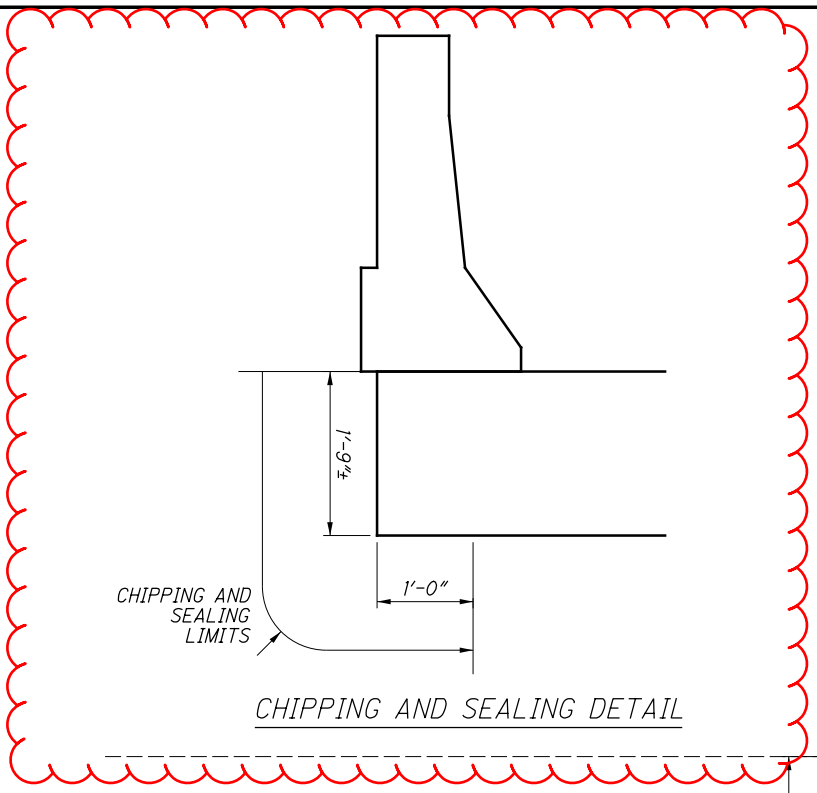
**LEGEND**

- ① ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH
- ② ITEM 254 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, 3" DEPTH
- ③ ITEM 407 TACK COAT, 702.13
- ④ ITEM 407 NON-TRACKING TACK COAT
- ⑤ ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448) (1.5" THICKNESS)

EXISTING STRUCTURE	
TYPE: 3 SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE	
SPANS: 39'-0", 65'-0", 39'-0"	
ROADWAY: 54'-3" RIGHT BRIDGE, 53'-5" LEFT BRIDGE	
LOADING: CF2000(57)	
SKEW: 2° 27' 58" LEFT FORWARD WITH REFERENCE LINE	
WEARING SURFACE: LATEX MODIFIED CONCRETE OVERLAY	
APPROACH SLABS: AS-1-81 (25' LONG)	
ALIGNMENT: 0° 30' 00" LEFT CURVE	
CROWN: 3/16" PER FT.	
STRUCTURAL FILE NUMBER: 2507951	
DATE BUILT: 1961	
DISPOSITION: APPROACH PVMT. REPAIR & SPALLING DECK EDGE	

DESIGNED		BLF	CAB
DRAWN		BLF	XXX
REVIEWED		KRF	XXX
DATE	11/28/20	STRUCTURE FILE NUMBER	2507951
DESIGN AGENCY			
OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 6			
GENERAL PLAN			
BRIDGE NO. FRA-71-2008			
OVER 17TH AVENUE			
D06 BRIDGE		REPAIR FY21	
PID No. 100689			
6 / 12			
13			
19			

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- NOTES**
1. SEE SHEET 3/12 FOR PAVEMENT REPAIR DETAILS.
  2. CARE SHALL BE TAKEN NOT TO IMPACT EXISTING CABLE FOR TRAFFIC SIGNAL.

**EXISTING STRUCTURE**

TYPE: 4 SPAN CONTINUOUS CONCRETE SLAB WITH REINFORCED CONCRETE SUBSTRUCTURE

SPANS: 38'-0", 47'-6", 47'-6", 38'-0"

ROADWAY: 53'-0" TOE/TOE/TOE/TOE PARALLEL CURB

LOADING: CF2000(57)

SKEW: 19° 00' 00" LEFT FORWARD

WEARING SURFACE: MICRO SILICA MODIFIED CONCRETE OVERLAY

APPROACH SLABS: AS-1-54 (25' LONG)

ALIGNMENT: TANGENT

CROWN: 3/16" PER FT

STRUCTURAL FILE NUMBER: 2508133 & 2508168

DATE BUILT: 1960

DISPOSITION: REHABILITATION OF APPROACH PAVEMENT



DESIGN AGENCY  
OHIO DEPARTMENT OF  
TRANSPORTATION DISTRICT 6

DESIGNED	BLF	CAB
CHECKED	XXX	XXX
DRAWN	BLF	XXX
REVIEWED	KRF	XXX
DATE	11/28/20	
STRUCTURE FILE NUMBER	2508133 & 2508168	

**GENERAL PLAN**  
FRA-71-2346 L/R  
OVER COOKE ROAD

**D06 BRIDGE**  
**REPAIR FY21**  
PID No. 100689

8 / 12

15  
19