

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HAS-9-17.78

VILLAGE OF JEWETT
HARRISON COUNTY

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LATITUDE: 40°22'00" LONGITUDE: 81°00'15"



DESIGN DESIGNATION

CURRENT ADT (2022)	2000
DESIGN YEAR ADT (2042)	2200
DESIGN HOURLY VOLUME (2022)	190
DIRECTIONAL DISTRIBUTION	57%
TRUCKS (24 HOUR B&C)	17%
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
05 MAJOR COLLECTOR (RURAL)	

NHS PROJECT NO

ENGINEER'S SEAL:

FOR STRUCTURES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

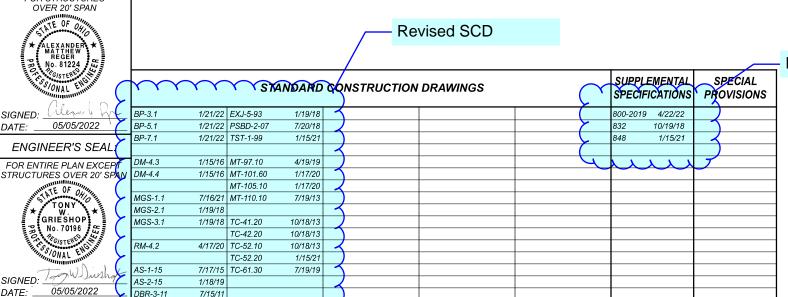
NONE REQUIRED



PLAN PREPARED BY:

CARPENTER

MARTY transportation
6612 SINGLETREE DRIVE COLUMBUS, OH 42229



FEDERAL PROJECT NUMBER

E210 (065)

RAILROAD INVOLVEMENT

COLUMBUS & OHIO RIVER RAILROAD

PROJECT DESCRIPTION

REPAIR/REHABILITATE BRIDGE HAS-9-1778 (SFN 3400395)
CARRYING S.R. 9 OVER CONOTTON CREEK.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.2 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.2 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DE-TOURS WILL BE PROVIDED AS INDICATED ON SHEET 6.

Revised note for detour.

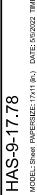
Revised SS

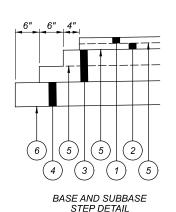
APPROVED	
DATE	DISTRICT DEPUTY DIRECTOR
APPROVED	
DATE	DIRECTOR, DEPARTMENT OF TRANSPORTATION

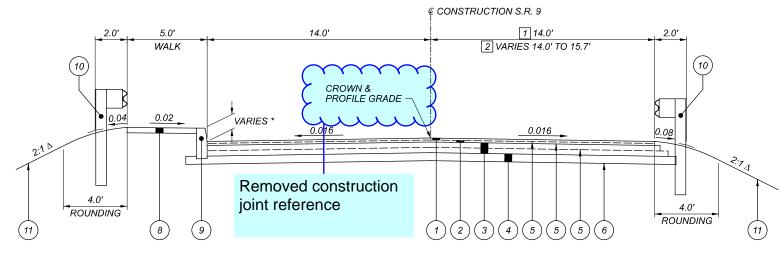
CARPENTER SEE

DESIGNER
JJL
REVIEWER
TWG 5-4-22
PROJECT ID
114172

SHEET TOTAL 1 30





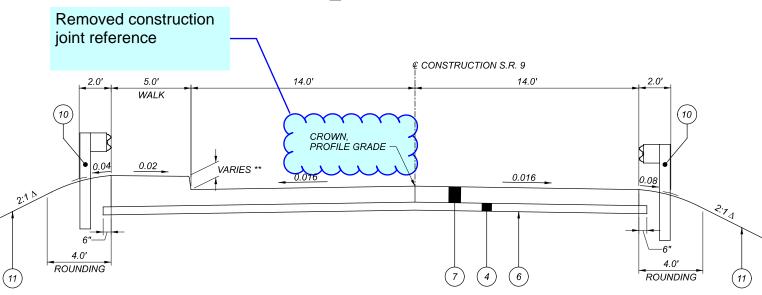


PROPOSED NORMAL SECTION - S.R. 9

SECTION APPLIES

1 STA. 3+45.00 TO STA. 3+53.18

2 STA. 4+24.20 TO STA. 4+35.00



PROPOSED APPROACH SLAB SECTION - S.R. 9

SECTION APPLIES:

STA. 3+53.18 TO STA. 3+68.18 STA. 4+09.20 TO STA. 4+24.20

<u>LEGEND</u>

- (1) ITEM 441 1 ¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (PG70-22M)
- $\binom{2}{1}$ ITEM 441 1 $\frac{3}{4}$ " ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- (3) ITEM 301 9" ASPHALT CONCRETE BASE, PG64-22, (449)
- (4) ITEM 304 6" AGGREGATE BASE
- (5) ITEM 407 TACK COAT
- (6) ITEM 204 SUBGRADE COMPACTION
- (7) ITEM 526 REINFORCED CONCRETE APPROACH SLABS (T=12")
- (8) ITEM 608 4" CONCRETE WALK
- (9) ITEM 609 CURB, TYPE 6
- (10) ITEM 606 GUARDRAIL, TYPE MGS
- (11) ITEM 659 SEEDING AND MULCHING

- (A) EX. ASPHALT CONCRETE
- (B) EX. 1¾" ASPHALT CONCRETE
- (C) EX. 5" BITUMINOUS AGGREGATE BASE
- (D) EX. CURB
- (E) EX. 4" CONCRETE WALK
- (F) EX. GUARDRAIL

NOTES

- * TRANSITION CURB HEIGHT 0" TO 9" FROM STA. 3+45.00 TO BEGINNING OF APPROACH SLAB. SEE CURB RAMP DETAILS ON SHEET 8.
- ** TRANSITION CURB HEIGHT 9" TO 10" FROM STA. 3+53.18 TO STA. 3+68.18.
- Δ OR AS SHOWN IN CROSS SECTIONS



114172

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 60 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 6.
A DISINCENTIVE SHALL BE ASSESSED IN ACCORDANCE WITH C&MS 108.07 FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL TWENTY FOUR HOURS A DAY FOR THE DURATION OF THIS PROJECT. THIS WILL INCLUDE THE FURNISHING, PLACING, MAINTAINING, AND SUBSEQUENTLY REMOVING ALL TRAFFIC CONTROL DEVICES NECESSARY FOR ALL PROPOSED CONSTRUCTION OPERATIONS AFFECTING THE FLOW OF TRAFFIC WITHIN THE LIMITS OF THIS PROJECT.

ACCESS FOR ABUTTING PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THESE NOTES AND PLAN SPECIFICATIONS. THE CONTRACTOR SHALL WORK WITH THE PROPERTY OWNERS TO MAINTAIN SPECIAL ACCESS PROVISIONS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE							
ITEM	DURATION OF	SIGN DISPLAYED					
I I EIVI	CLOSURE	TO PUBLIC					
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS					
	>- 2 WEEKS	PRIOR TO CLOSURE					
	> 12 HOURS &	7 CALENDAR DAYS					
	< 2 WEEKS	PRIOR TO CLOSURE					
	<= 12 HOURS	2 BUSINESS DAYS					
	\- 12 HOURS	PRIOR TO CLOSURE					

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

SR 9/SR 151 WILL BE CLOSED MMM-DD FOR 60 DAYS INFO: 330-339-6633

W20-H13-60

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE,	10 CY
TYPE A OR B	
ITEM 614, ASPHALT CONCRETE FOR	10 CY
MAINTAINING TRAFFIC	
ITEM 616. WATER	10 MGAI

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

100 FT. BEFORE BEGIN PROJECT AND 100 FT. AFTER END PROJECT

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES AT LOCATIONS SHOWN ON THE DETOUR SHEET (SHEET 6).

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 AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

CONOTTON CREEK TRAIL

ACCESS TO THE CONOTTON CREEK TRAIL SHALL BE MAINTAINED AT ALL TIMES.

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE TRAIL AND THE PUBLIC.

APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE CONOTTON CREEK TRAIL OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT DISTRICT 11 AND THE HARRISON COUNTY ENGINEER: DOUGLAS BACHMAN AT 740-942-8867 PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

PAYMENT FOR SIGNAGE AND FENCING SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614. MAINTAINING TRAFFIC.

WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT 0.02 MILE ITEM 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT 0.04 MILE

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 1 MGAL.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVEABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER

NOTIFICATION TIME TABLE

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE								
ITEM DURATION OF NOTICE DUE TO								
I I EIVI	CLOSURE	PERMITS & PIO						
	>= 2 WFFKS	21 CALENDAR DAYS						
	>= 2 WLLKS	PRIOR TO CLOSURE						
RAMP & ROAD	> 12 HOURS &	14 CALENDAR DAYS						
CLOSURES	< 2 WEEKS	PRIOR TO CLOSURE						
	<= 12 HOURS	4 BUSINESS DAYS						
	N= 12 HOURS	PRIOR TO CLOSURE						
	>= 2 WEEKS	14 CALENDAR DAYS						
LANE CLOSURES &	>- 2 WEEKS	PRIOR TO CLOSURE						
RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS						
	\ Z VVEENS	PRIOR TO CLOSURE						
START OF		14 CALENDAR DAYS						
CONSTRUCTION &	N/A	PRIOR TO						
TRAFFIC PATTERN	/v/A	IMPLEMENTATION						
CHANGES		IIVIFLEIVIENTATION						

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DROP OFFS IN WORKZONE ADJACENT TO RAILROAD PROPERTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PROTECTION AS APPROVED BY THE ENGINEER DURING ANY POINT THERE IS A DROP OFF EXCEEDING THE REQUIREMENTS OF MT-101.90 ON RAILROAD PROPERTY.

PAYMENT FOR THE PROTECTION SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

Revised sheet

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON SHEET NO. 6. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (PG70-22M) 10 CU. YD.

ITEM 407, TACK COAT 15 GAL.

ITEM 617, COMPACTED AGGREGATE 15 CU. YD.

ITEM 617, WATER 1 M GAL

ITEM 614, DETOUR SIGNING

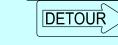
THE CONTRACTOR SHALL PROVIDE THE DETOUR SIGNING AS SHOWN ON SHEET6. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT FOR ITEM 614 - DETOUR SIGNING.

DETOU	R SIGNS				
CODE	TOTAL				
	EACH				
M1-5-24-2	24				
M1-5-30-3	26				
M4-8-24	50				
M4-8A-24	4				
M4-10L-48	2				
M4-10R-48	2				
M5-1L-21	4				
M5-1R-21	5				
M5-2L-21	2				
M5-2R-21	1				
M6-1L-21	4				
M6-1R-21	5				
M6-2L-21	2				
M6-2R-21	1				
M6-3-21	2				
R11-2-48	4				
R-11-3B-60	6				
W16-2P-24	4				
W20-1-36	2				
W20-2-36	4				
W20-3-36	4				

CARPENTER AMAILY fransportation

JJL
REVIEWER
TWG 5-4-22
PROJECT ID
114172
SHEET TOTAL

MAINTENANCE OF TRAFFIC ETOUR PLAN - S.R. 9 AND S.R. \Box



TYPE 3 BARRICADE

TYPE 3 BARRICADE

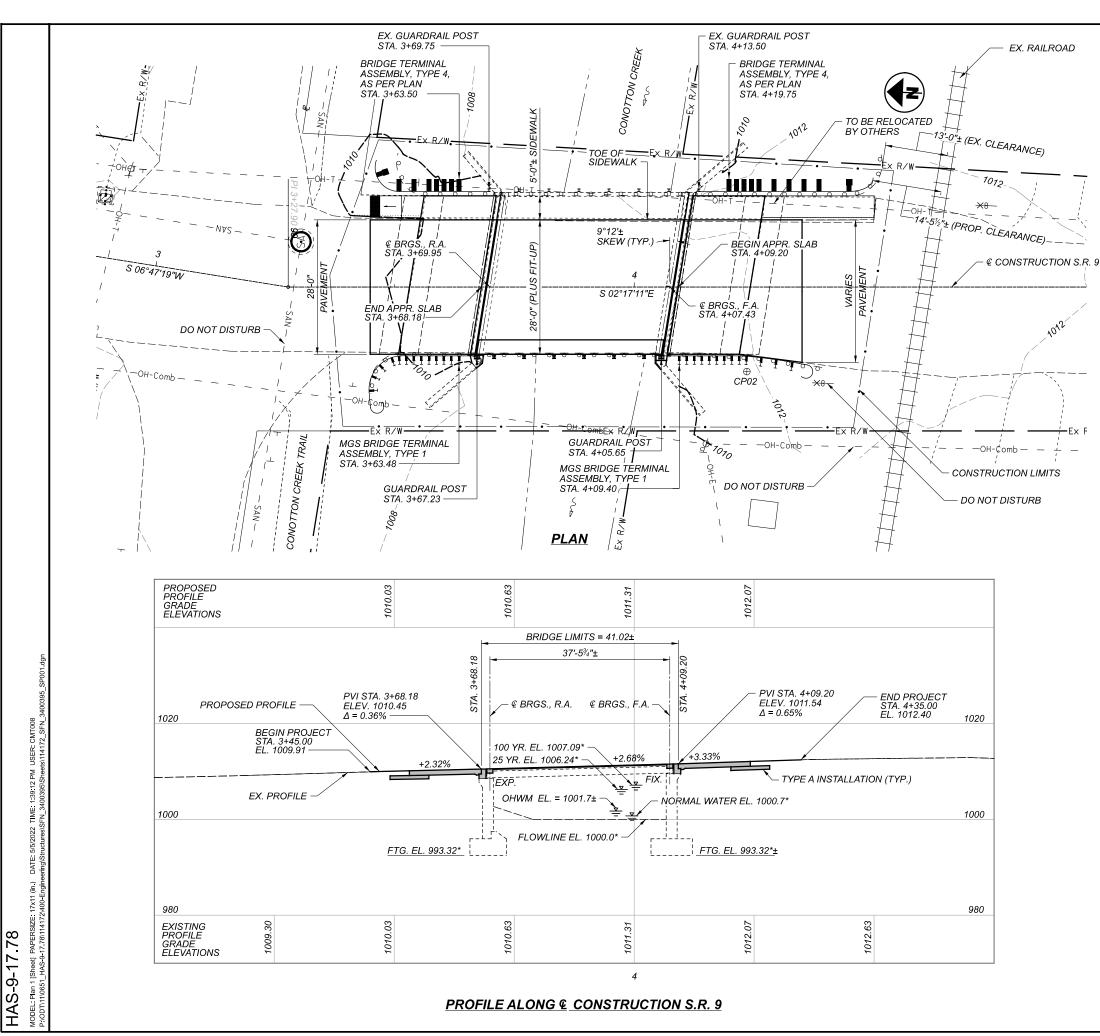
TYPE 3 BARRICADE

R11-3B-60 M4-10R-48 TYPE 3 BARRICADE

JJL WG 5-4-22 114172 TOTAL 30

Revised sheet

4 5	SHEET NUM. 4 5		4 5	5	_	9	12	OFFICE CALCS	PART. 01/NHS/BR	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION ROADWAY	SEE SHEET NO.	
			-	LS				60	LS 60	201 202	11000 23000	LS 60	SY	CLEARING AND GRUBBING PAVEMENT REMOVED		
t						153		- 00	153	202	30000	153	SF	WALK REMOVED		
						34			34	202	32000	34	FT	CURB REMOVED		
						124			124	202	38000	124	FT	GUARDRAIL REMOVED		
							51		51	203	10000	51	CY	EXCAVATION		
			+				1	184	1 184	203 204	20000 10000	1 184	CY SY	EMBANKMENT SUBGRADE COMPACTION	-+	
						4		704	4	606	20050	4	EACH	ROUNDED END SECTION		
						2			2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		
						2			2	606	35141	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN	4	
_			1			124 29			124 29	608 608	10000 52000	124 29	SF SF	4" CONCRETE WALK CURB RAMP		
ł						2.9			2.5	000	32000	23	3/	CONDINAINIF		
														EROSION CONTROL		
				2					2	659	00100	2	EACH	SOIL ANALYSIS TEST		
				8					8	659	00300	8	CY	TOPSOIL		⇒ I
_				1			76		76	659	10000	76	SY	SEEDING AND MULCHING		₩ I
ŀ				0.01					0.01	659 659	14000 20000	0.01	SY TON	REPAIR SEEDING AND MULCHING COMMERCIAL FERTILIZER		Ì
				0.07					0.07	000	20000	0.01	7077	OOMMENONE PERTILIZER		UMMARY
				0.02					0.02	659	31000	0.02	ACRE	LIME		ns
l				1					1	659	35000	1	MGAL	WATER		
									1,000	832	30000	1,000	EACH	EROSION CONTROL		RAL
														PAVEMENT		# I
_								14	14	301	56000	14	CY	ASPHALT CONCRETE BASE, PG64-22, (449)		Ш И
								30	30	304	20000	30	CY	AGGREGATE BASE		<u> </u>
I								12	12	407	10000	12	GAL	TACK COAT		O
								2	2	441	70101	2	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (PG70-22M)	4	
			 -					3	3	441	70300	3	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)		
			1			32			32	609	26000	32	FT	CURB, TYPE 6		
									1				, ,			
														TRAFFIC CONTROL		
			1			6			6	626	00110	6		BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)		
			1			14			14	630 630	03100 85100	14	FT EACH	GROUND MOUNTED SUPPORT, NO. 3 POST REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
						1			1	630	86002	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
						0.04			0.04	646	10010	0.04	MILE	EDGE LINE, 6"		
						0.02			0.02	646	10200	0.02	MILE	CENTER LINE		
			1											STRUCTURE OVER 20 FOOT SPAN (HAS-00009-17.780)	19	
			1											OTTOOTONE OVER 201 OUT OF AN (TIMO-000003-11.100)	19	
	-+				15	\sim	M	\sim	15	107	10000	15	CAL	TACK COAT MAINTENANCE OF TRAFFIC		
				Y	.10				10	441	70101	10	CY	ASPHALT CONCRETE SURFAGE COURSE, TYPE 1. (449). ASPER PLAN (RG70-22M)	4	
			1	Y	The hand	4	$\checkmark \checkmark \checkmark$	**	100 m	4100	V2000	MAN A	A	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN (RG70-22N) THAFNIC COMMACTED SURFACE, TYPE A OR B		
				4	LS				LS	614	12420	LS		DETOUR SIGNING \(\frac{1}{2}\)		
					10	V V		V.	100	LE14	1 800 X	<u>100</u>	UCY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
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		l l			0.02 0.04				0.02	614 614	21550 22360	0.02 0.04	MILE MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	-+	Y/
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				{	15 1				15 1	617	10100	1	MGAL	WATER		CARPENTI MARTY franspo
				{	15 1				15	617	10100 25000	1	MGAL	INCIDENTALS		CARPENTER MARTY (mappendal)
				{	15 1				15	617	10100 25000	1	MGAL	INCIDENTALS MAINTAINING TRAFFIC		DESIGNER JJL
				{	15 1			· · · · · · · · · · · · · · · · · · ·	15 1 1	617 617 1	10100 25000 11000	1 YMS Y 5	MGAL	INCIDENTALS		DESIGNER JJL REVIEWER
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				{	15 1			· · · · · · · · · · · · · · · · · · ·	15 1 1 V V6 5	617 617 Y 674 619	10100 25000 11000 16000 10000	1 Y MS Y 5	MGAL	INCIDENTALS MAINTAINING TRAFFIC FIELD OFFICE, TYPE A CONSTRUCTION LAYOUT STAKES AND SURVEYING	-	SESIGNER JJL REVIEWER TWG 5-4-22



CP01 STA. 8+50.44, ELEV. 1007.98, OFFSET 10.51, CP02 STA. 4+23.49, ELEV. 1012.47, OFFSET 17.62', CP03 STA. 0+03 79 ELEV. 1014.08, OFFSET 16.49.

BENCHMARK DATA

FOR ADDITIONAL BENCHMARK INFORMATION SEE ROADWAY PLAN SHEET 4 /30

NOTES

- 1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- 2. DESIGN TRAFFIC:

2022 ADT = 20002022 ADTT = 3402042 ADT = 22002042 ADTT = 374 DIRECTIONAL DISTRIBUTION = 0.57

LEGEND

* - FROM EXISTING PLANS ⊕ - BENCHMARK

Removed phase construction dimensions

HYDRAULIC DATA (FROM EX. PLANS)

DRAINAGE AREA = 11.72 SQ. MILES

Q(25) = 1180 CFSV(25) = 8.23 FT/SQ(100) = 1610 CFS $V(100) = 9.31 \, FT/S$

STRUCTURE CLEARS THE 25 YEAR DESIGN HW BY 5.18 FEET.

EXISTING STRUCTURE

COMPOSITE PRESTRESSED CONCRETE BEAMS WITH REINFORCED CONCRETE SUBSTRUCTURE

SPAN: 37'-5¾"± C/C BRGS.

ROADWAY: 28'-0"± WITH 5'-0"± SIDEWALK LEFT SIDE VEHICULAR LIVE LOAD: HS20-44 & ALTERNATE MILITARY

SKEW: 9°12'± L.F.

WEARING SURFACE: MONOLITHIC CONCRETE (5½"± MIN.) APPROACH SLABS: AS-1-81 (15'-0"± LONG, 1'-0"± THICK)

ALIGNMENT: TANGENT CROWN: 0.016± FT/FT

STRUCTURE FILE NUMBER: 3400395

DATE BUILT: 1931 REHABILITATED: 1992

DISPOSITION: TO BE REHABILTATED

PROPOSED STRUCTURE

PROPOSED WORK: REPLACE FASCIA BEAM AND INSTALL TST-1-99 RAILING RIGHT SIDE. RETROFIT DBR RAILING LEFT SIDE. INSTALL 1½" MICRO-SILICA MODIFIED CONCRETE OVERLAY. REPLACE EXPANSION JOINTS AND PORTIONS OF ABUTMENTS. INSTALL NEW APPROACH SLABS.

SPAN: 37'-5¾"± C/C BRGS.

ROADWAY: 28'-0"± WITH 5'-0"± SIDEWALK LEFT SIDE VEHICULAR LIVE LOAD (PROPOSED WORK): HL93

SKEW: 9°12'± L.F.

WEARING SURFACE: $1\frac{1}{2}$ " MICRO-SILICA OVERLAY

APPROACH SLABS: 15'-0" LONG, 1'-0" THICK (AS-1-15, AS-2-15 TYPE A)

ALIGNMENT: TANGENT CROWN: 0.016± FT/FT

COORDINATES: LATITUDE: 40°21'58.68" N

LONGITUDE: 81°00'13.39" W

DECK AREA: 1381 SF

3400395 CARPENTER MARTY transportation JMV AMR STK 1-3-2022 114172 14

30

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATION:

848 DATED 1-15-2021

DESIGN SPECIFICATIONS

WORK PERFORMED ON THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS"

ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

CONCRETE FOR PRESTRESSED BEAMS. COMPRESSIVE STRENGTH (FINAL) - 5.5 KSI COMPRESSIVE STRENGTH (RELEASE) - 4.0 KSI

PRESTRESSING STRAND: AREA = 0.167 IN 2 ULTIMATE STRENGTH = 270 KSI INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL

DESIGN LOADING

VEHICULAR LIVE LOAD: HL-93 (PROPOSED WORK)

HS20-44 AND ALTERNATE MILITARY LOADING (EXISTING STRUCTURE)

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

DECK REMOVALS - COMPOSITE DECK DESIGNS - PRESTRESSED SUPERSTRUCTURES: DUE TO THE PRESENCE OF COMPOSITE REINFORCING STEEL BETWEEN THE DECK AND THE PRESTRESSED REAM ELANGES, SUBMIT A DETAILED PROCEDURE OF THE DECK REMOVAL TO THE ENGINEER AT LEAST 7 DAYS BEFORE CONSTRUCTION BEGINS. DEPARTMENT ACCEPTANCE IS NOT REQUIRED. THE PROCEDURE SHALL INCLUDE ALL DETAILS, EQUIPMENT AND METHODS OF REMOVAL OVER THE PRESTRESSED BEAMS AND AROUND THE COMPOSITE REINFORCING STEEL. REPLACE OR REPAIR PRESTRESSED MEMBERS AND COMPOSITE REINFORCING DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR.

CUT LINE CONSTRUCTION, JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER. AIR UNDER PRESSURE. OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL BE MORE THAN 35 POUND FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202-PORTIONS OF STRUCTURE REMOVED. OVER 20 FOOT SPAN, AS PER PLAN

EXISTING STRUCTURE VERIFICATION

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 AND105.02. 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.

BEARING PAD SHIMS

PLACE 1/8" THICK PREFORMED BEARING PAD SHIMS, PLAN AREA 6 INCHES BY 12 INCHES, UNDER THE ELASTOMERIC BEARING PADS WHERE REQUIRED FOR PROPER BEARING. FURNISH TWO SHIMS PER BEAM. THE DEPARTMENT WILL MEASURE THIS ITEM BY THE TOTAL NUMBER SUPPLIED. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - 1/8" PREFORMED BEARING PADS. ANY UNUSED SHIMS WILL BECOME THE PROPERTY OF THE STATE.

ITEM 509 - REINFORCING STEEL,, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW REINFORCING STEEL OF THE SAME SIZE AND COATING AT NO COST TO THE DEPARTMENT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

FOR SEALED SIDEWALKS, INTEGRATE $1\frac{1}{2}$ LBS PER SQUARE YARD OF SILICA SAND INTO THE SURFACE OF THE SECOND COAT TO PRODUCE A NONSKID SURFACE SATISFACTORY TO THE ENGINEER

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN:

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER. ABRASIVE BLASTING WITH CONTAINMENT. OR VACUUM ABRASIVE BLASTING.

PROPOSED WORK

- 1. REPLACE RIGHT FASCIA BOX BEAM WITH A NEW BEAM
- 2. INSTALL TWIN STEEL TUBE RAILING ALONG THE RIGHT SIDE ONLY AND RETROFIT EXISTING DEEP BEAM RAILING ON THE LEFT SIDE.
- 3. REMOVE 13" OF EXISTING DECK USING HYDRODEMOLITION AND PLACE 11/2" MICRO SILICA CONCRETE OVERLAY.
- 4. REPLACE BACKWALLS.
- 5. REPLACE EXPANSION JOINTS.
- 6. REPLACE APPROACH SLABS.

ASBESTOS SURVEY

AN ASBESTOS SURVEY FOR HAS-00009-17.780 SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS INSPECTION REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS INSPECTION REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ABOVE REGULATORY LIMITS.

DISPOSE ASBESTOS CONTAINING MATERIALS IN A LANDFILL LICENSED BY THE OHIO DEPARTMENT OF HEALTH AND PERMITTED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY - DIVISION OF AIR POLLUTION CONTROL TO ACCEPT ASBESTOS CONTAINING MATERIAL. THE REMOVAL AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIAL MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE (OAC) REGULATIONS AND THE NATIONAL EMISSION STANDARD FOR HÁZARDOUS AIR POLLUTANTS (NESHAP) STANDARD FOR ASBESTOS.

ELECTRONIC SUBMISSION:

SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTION REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY OR BOTH SUBMITTHE NDRE AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA EBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL

HARD COPY SUBMISSION:

THE CONTRACTOR MAY SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT. FOLLOW THE MAILING INSTRUCTIONS ON THE NDRF. CHECK WITH LOCAL HEALTH DEPARTMENT TO DETERMINE IF THEY REQUIRE A HARD COPY SUBMITTAL

SUBMIT THE COMPLETED NDRF TO OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. RETAIN TWO HARD COPIES OF THE NDRF AND SUBMIT ONE COPY TO THE ENGINEER AND ONE COPY TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR AT: THOMAS.STRATTON@DOT.OHIO.GOV

BASIS OF PAYMENT

SUBMIT ALL DOCUMENTATION RELATED TO THE SURVEY, ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS TO THE ENGINEER WITHIN TWO WEEKS OF COMPLETION. THE ENGINEER WILL PROVIDE A COPY OF THE DOCUMENTATION TO THE DISTRICT ENVIRONMENTAL STAFF.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE BID PRICE OF

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN - LUMP SUM

Added note

3400395 CARPENTER MARTY transportation

HAS-00009-17.780

GENERAL NOTES

NO. HAS-00009-17 CONOTTON CREI

SIDGE | OVER

BRID

JMV AMR STK 1-3-2022 114172 14

ESTIMATED QUANTITIES BRIDGE NO. HAS-00009-17.780 OVER CONOTTON CREEK

				ESTIMATED QUANTITIES	DESIGN: AMI DATE: 4/21/2		CHECK: JMV DATE: 4/21/2	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	SUPER.	GEN.	SHEET#
202	11203	LS	-	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LS	2
202	22900	110	SY	APPROACH SLAB REMOVED			110	
503	21300	~\$~	~~	UNICLASS/EHED-EXCAVATION TO THE CONTROL OF THE CONT	15V	\sim		
509	10000	1452		EPOXY COATED REINFORCING STEEL	1087	365		
1509	20001	<u> 44</u> 8	JURY	BEINKOBBUNGSTBELL/REDLAGEMENT DE EXISTANG/REDLEORCIDG STEED, ABPERPUAN	1009	<u> </u>	/	2
511	31610	6		CLASS QC2 CONCRETE, SUPERSTRUCTURE		6		
511	45Z10	$\left\langle \right\rangle$	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CLASS-OC1-CONCRETE-ABUTIVENT	√ %			
, , ,	, , ,	, , ,	, , , ,		\ \ \ \ \	1 1 1)	
512	10100	155	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	107	48	()_	
512	33000	29	SY	TYPE 2 WATERPROOFING	29		K	
لىد	لللا	ىدى	ىدى		لمحد	لملا		
515	12021	1	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-36, AS PER PLAN (LENGTH = 38'-6")		1		9
516	11211	69	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN		69		8
516	13600	7	SF	1" PREFORMED EXPANSION JOINT FILLER	7			
516	41100	2	EACH	1/8" PREFORMED BEARING PAD		2		
516	43100	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (6" X 12" X 1" THICK)		4		
517	70000	44		RAILING (TWIN STEEL TUBE)		44		
517	75601	44	FT	DEEP BEAM BRIDGE RETROFIT RAILING, AS PER PLAN		44		12
518	21200	8	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	8			
519	11101	29	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	29			2
526	10000	110		REINFORCED CONCRETE APPROACH SLABS (T=12")			110	
526	90010	67	FT	TYPE A INSTALLATION			67	
0.40	10000	100	2)/			400		
848	10000	120	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (T = 1 1/2")		120		
848	20000	103		SURFACE PREPARATION USING HYDRODEMOLITION		103		
848	30000	5	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY		5		
848	50000	10	SY	HAND CHIPPING		10		
848	50100	LS	-	TEST SLAB		LS		

Updated quantity

HAS-9-17.78

MODEL: Sheet PAPERSIZE: 17x1 (n.) DATE: 5/5/2022 TIME: 1:39:15 PM USER: CMT008
P:ODT1110651_HA8-8-17.78114172400-Engineemg/Structures/SFN_3400395/Sheets(114172)

Removed item No. 512E10300 and revised Type 2 Waterproofing item

ARPENTER CAGESOO ASS

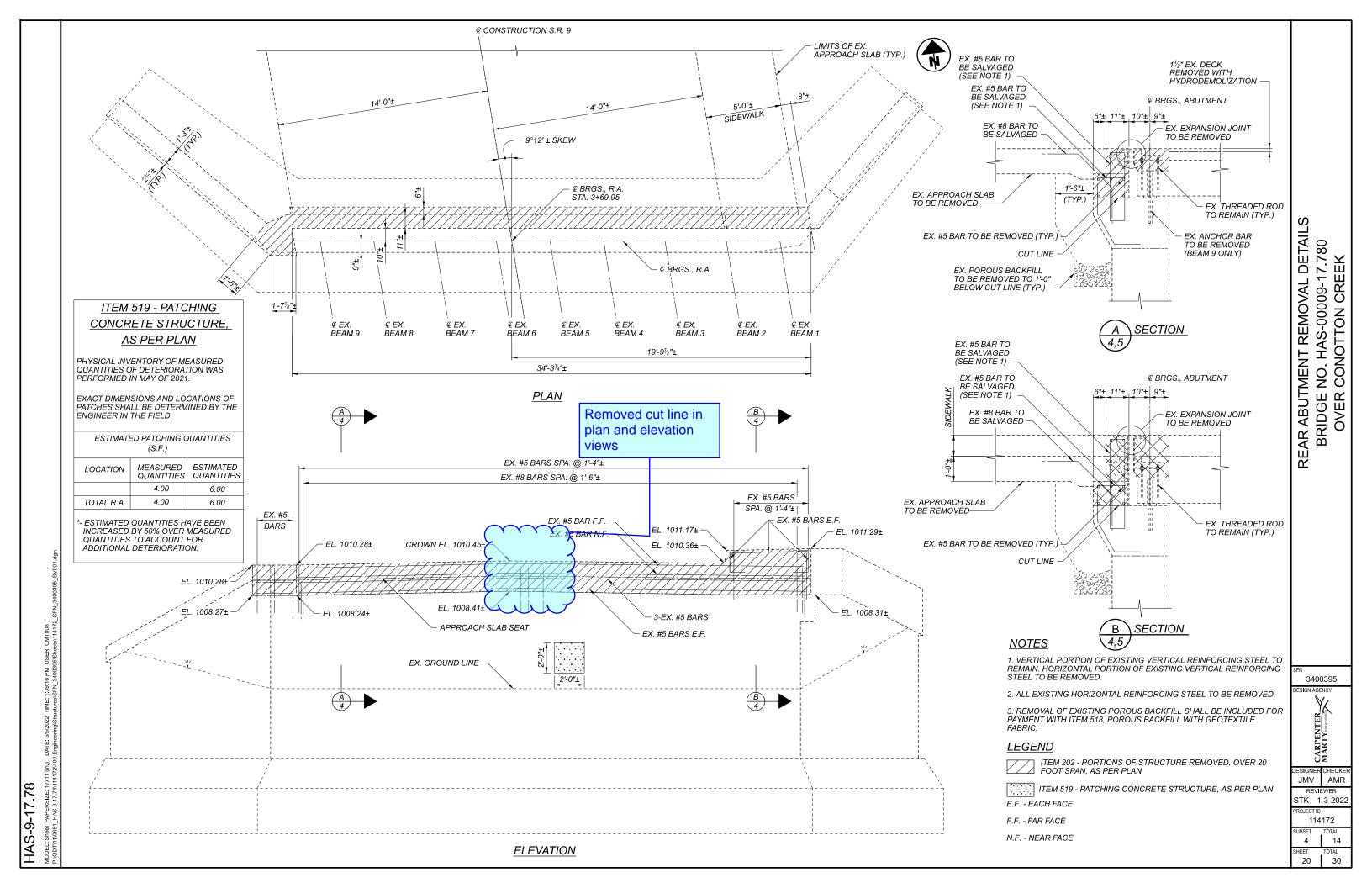
		MA
	DESIGNER	CHECKER
	JMV	AMR
1	REVI	EWER
	STK 1	-3-2022
1	PROJECT ID	
	114	172
1	SUBSET	TOTAL
		4.4

SUBSET TOTAL

3 14

SHEET TOTAL

19 30



FORWARD ABUTMENT REMOVAL DETAILS BRIDGE NO. HAS-00009-17.780 OVER CONOTTON CREEK

3400395 CARPENTER MARTY transportation

JMV AMR 114172

STK 1-03-2022

3400395

CARPENTER MARTY fransportation

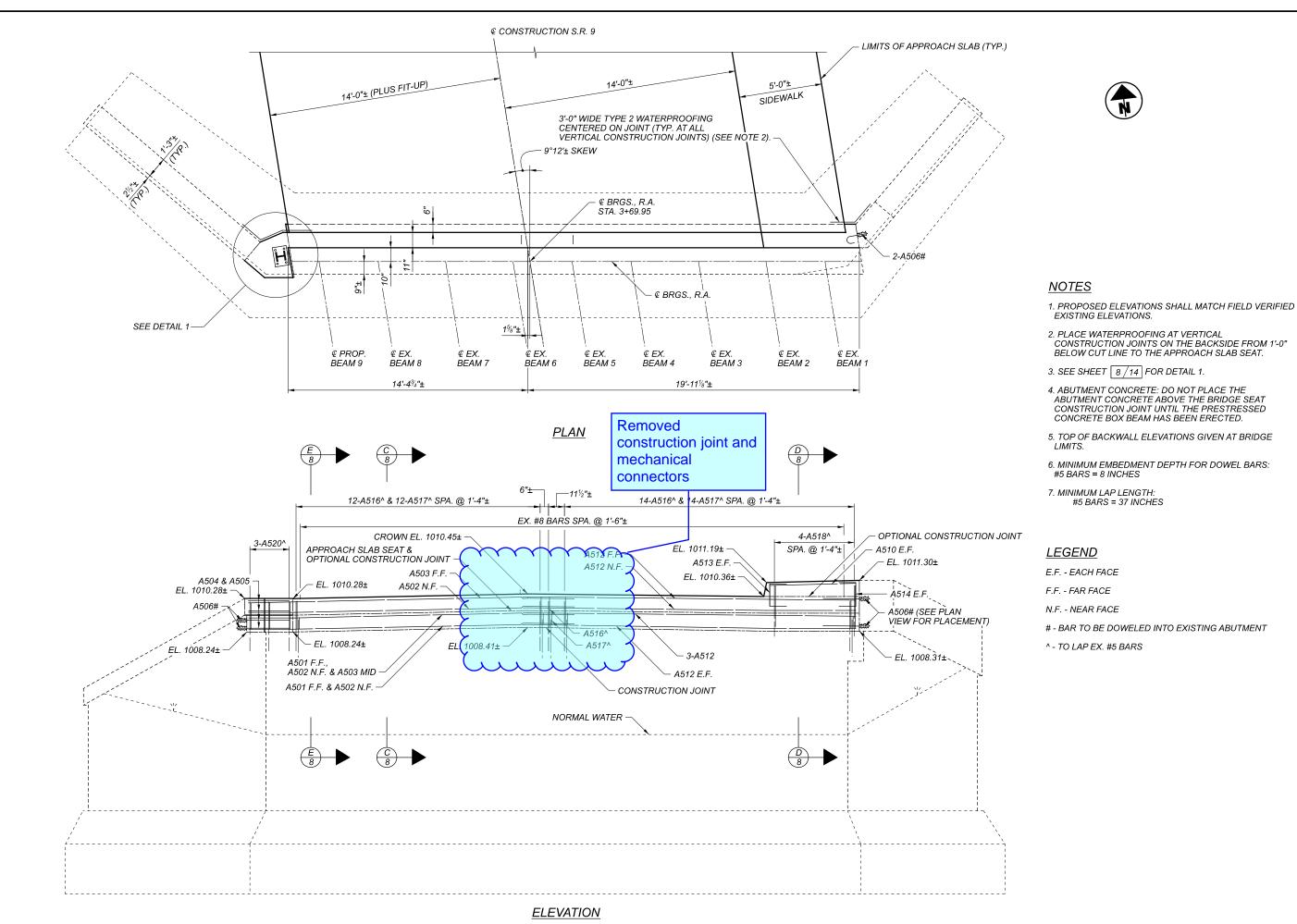
STK 1-3-2022 PROJECT ID 114172

AMR

14 FOTAL 30

JMV

22



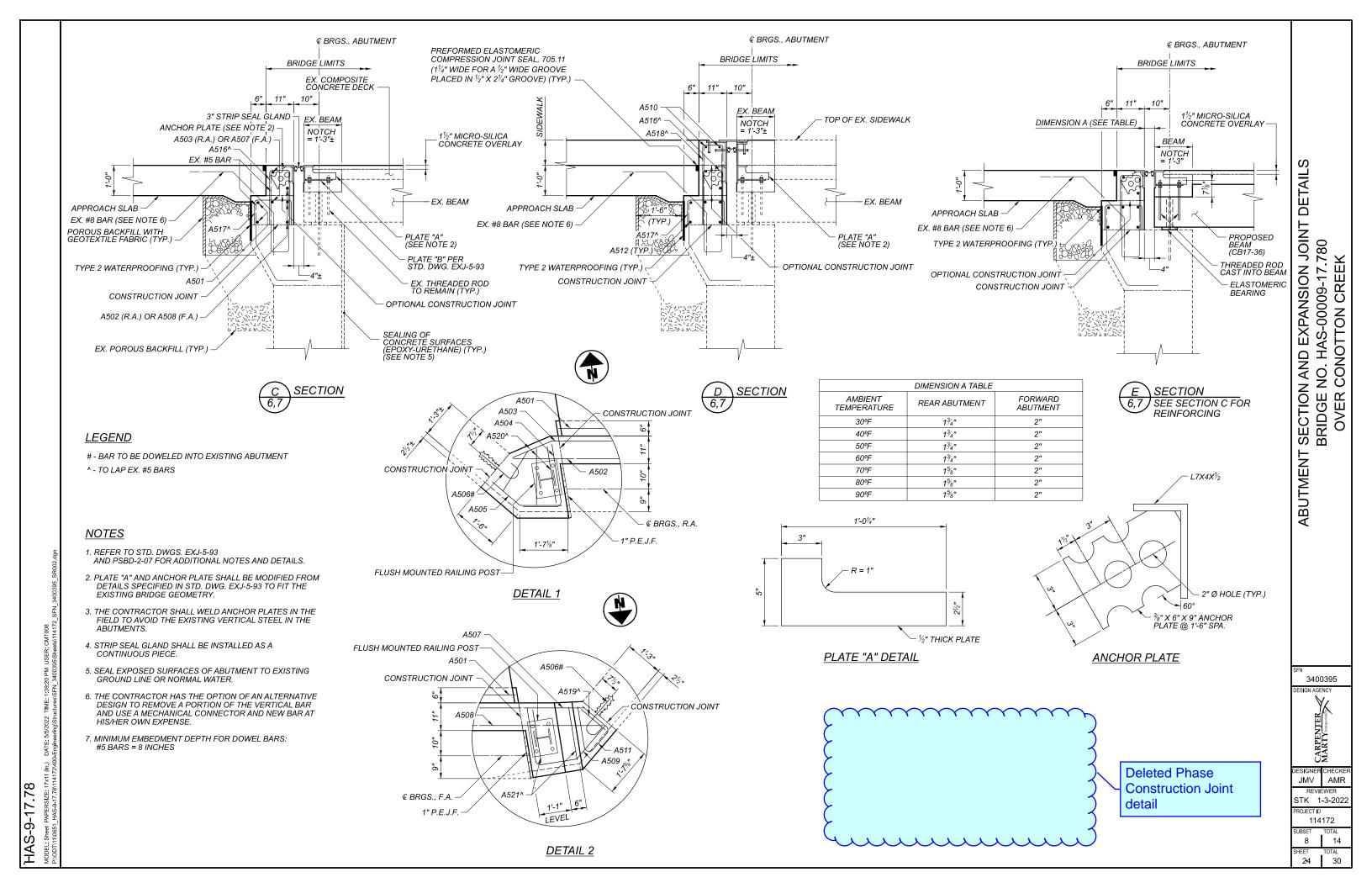
HAS-9-17.78

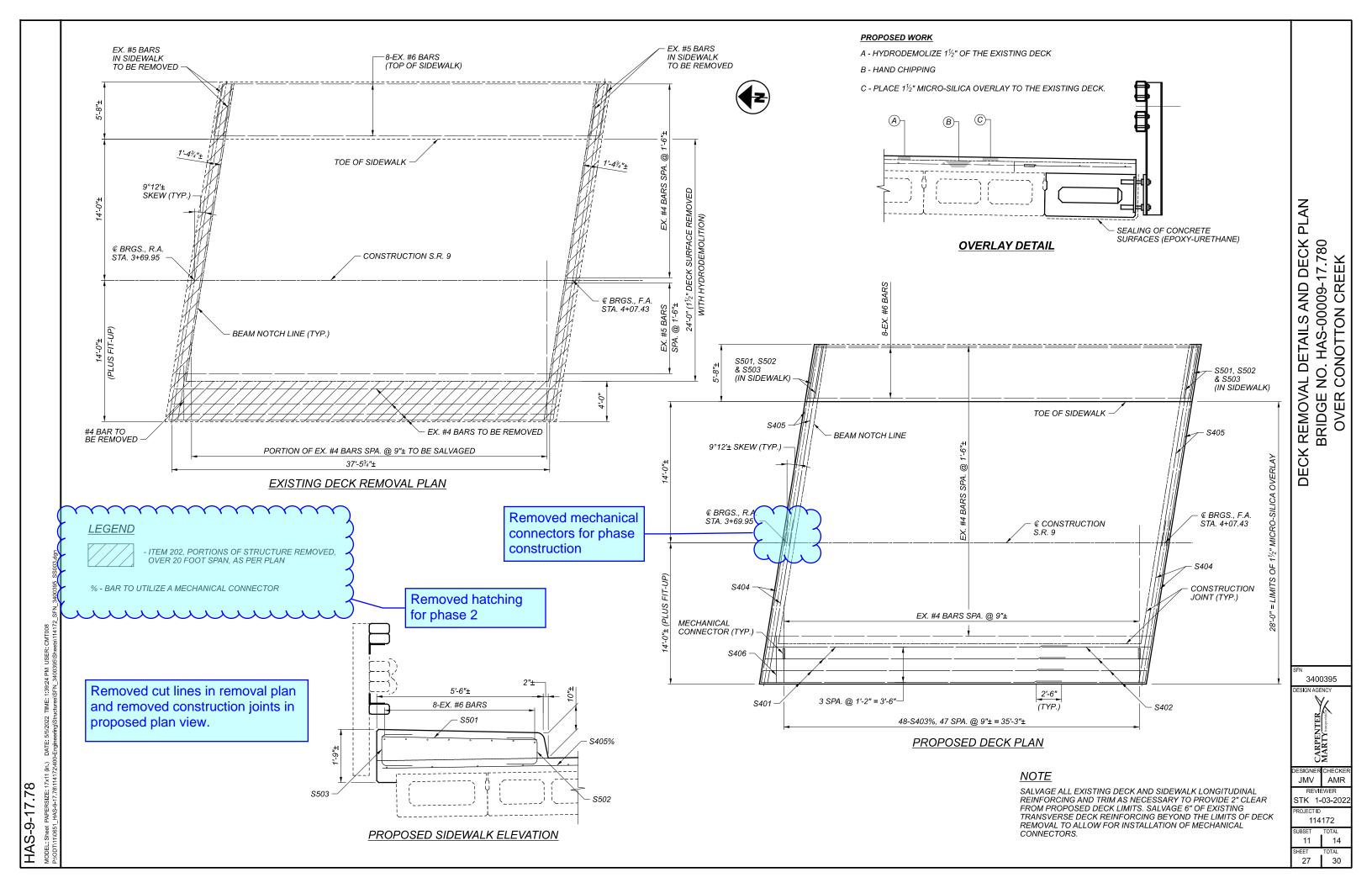
FORWARD ABUTMENT PLAN AND ELEVATION BRIDGE NO. HAS-00009-17.780 OVER CONNOTTON CREEK

3400395
DESIGN AGENCY

WARTY Framework of the Checker AMR
REVIEWER 1-3-2022
PROJECT ID
114172

14 TOTAL 30





TOTAL 30

29

EE: 17x11 (in.) DATE: 5/5/2022 TIME: 1:39:25 PM USER: CMT008

HAS-9-17.78

HAS-9-17.78
MODEL STEEL PAPERSIZE TIXII (III.) DATE STREAM TIME TOS ZO FIN OSEN O
P.\ODT\11\0651 HAS-9-17 78\114172\400-Engineering\Structures\SFN 3400395\Sheets\

MARK	NUMBER					Щ	DIMENSIONS				
	REAR	FWD	TOTAL	LENGTH	WEIGHT	TYPE	Α	В	С	D	INC
				ABU	JTMENTS						
A501	2	2	4	17'-0"	71	STR					
A502	3		3	18'-10"	59	STR					
A503	2		2	18'-9"	40	19	17'-5"	1'-3"	7"		
A504	4		4	3'-4"	14	11	4"	2'-2"	1'-4"		
A505	4		4	2'-6"	11	19	1'-4"	11"	9"		
A506#	4	4	8	1'-11"	16	16	1'-4"				
A507		2	2	19'-3"	41	STR					
A508		3	3	19'-10"	63	STR					
A509		4	4	4'-6"	19	10	1'-1"	11"	1'-4"	1'-11"	
A510	2	2	4	4'-6"	19	STR					
A511		1	1	3'-4"	4	9	1'-1"	1'-3"	1'-2"	1'-2"	
A512	7	7	14	20'-0"	289	STR					
A513	2	2	4	3'-1"	13	2	1'-0"	1'-4"	1'-0"		
A514	2	2	4	3'-2"	14	2	1'-0"	1'-5"	1'-0"		
A515	2	2	4	5'-5"	23	STR					
A516	27	27	54	3'-8"	207	2	1'-8"	7"	1'-8"		
A517	27	27	54	2'-0"	113	2	7"	1'-1"	7"		
A518	4	4	8	4'-9"	40	2	2'-4"	6"	2'-4"		
A519		1	1	5'-0"	6	2	2'-2"	11"	2'-2"		
A520	3		3	4'-7"	15	2	1'-8"	1'-6"	1'-8"		
A521		2	2	4'-9"	10	2	1'-8"	1'-8"	1'-8"		
				SUB-TOTAL	1087	Ι '					

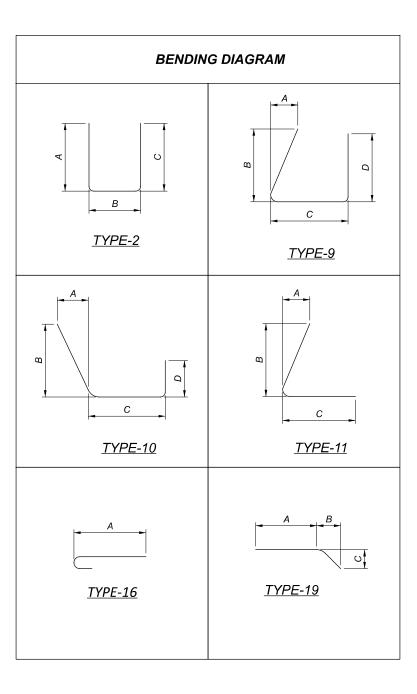
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS			
				1	Α	В	С	
		SUPERS	TRUCTURI	=				
S401	4	30'-0"	81	STR				
S402	4	10'-8"	29	STR				
S403%	48	3'-4"	107	STR				
S404	4	16'-3"	44	STR				
S405	4	20'-0"	54	STR				
S406	1	5'-2"	4	STR				
S501	4	5'-2"	22	STR				
S502	4	2'-9"	12	2	1'-0"	1'-0"	1'-0"	
S503	4	2'-10"	12	2	1'-0"	1'-1"	1'-0"	
	!	SUB-TOTAL	365					

Abutment and superstructure rebar lengths updated for detour

	NUMBER					ЪЕ	DIMENSION		
MARK	REAR	FWD	TOTAL	LENGTH	WEIGHT	7		В	С
			API	PROACH SLA	BS				
AS501	11	11	22	4'-6"	104	STR			
AS502	11	11	22	3'-1"	71	2	1'-0"	1'-4"	1'-0"
AS503	11	11	22	3'-2"	73	2	1'-0"	1'-5"	1'-0"
AS601	8	8	16	14'-6"	349	STR			
				SUB-TOTAL	597				

<u>NOTES</u>

- 1. THE BAR NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN, THE FIRST DIGIT INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 IS A NO. 5 BAR. BAR DIMENSIONS ARE OUT TO OUT UNLESS OTHERWISE NOTED.
- 2. ALL REINFORCING STEEL TO BE EPOXY COATED.
- 3. PAYMENT FOR MECHANICAL CONNECTORS SHALL BE INCLUDED WITH ITEM 509, EPOXY COATED REINFORCING STEEL.
- 4. PAYMENT FOR APPROACH SLAB REINFORCING SHALL BE INCLUDED WITH ITEM 526, REINFORCED CONCRETE APPROACH SLABS.



<u>LEGEND</u>

- % BAR TO UTILIZE A MECHANICAL CONNECTOR.
 BAR LENGTH IS MEASURED TO THE END OF THE EXISTING
 DECK TRANSVERSE BAR THAT IS BEING SALVAGED. EXTRA
 BAR LENGTH AND/OR BAR END PREPARATION MAY BE
 NECESSARY, DEPENDING UPON THE TYPE OF MECHANICAL
 CONNECTOR FURNISHED.
- # BAR TO BE DOWELED INTO EXISTING ABUTMENT

3400395					
CARPENTER S S S S S S S S S S S S S S S S S S S					
DESIGNER	CHECKER				
JMV	AMR				
REVIEWER					
STK 1	-3-2022				
PROJECT ID					
11/1172					