

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

ATB-20/ 84-11.02/ 14.13

CITY OF ASHTABULA
ASHTABULA COUNTY

PROJECT DESCRIPTION

REHABILITATION OF 0.86 MILES OF U.S. 20 AND 0.09 MILES OF S.R. 84 BY PAVEMENT RESURFACING. BOTH WITHIN THE CITY OF ASHTABULA. INCLUDES MINOR BRIDGE WORK TO STRUCTURE ATB-84-1367.

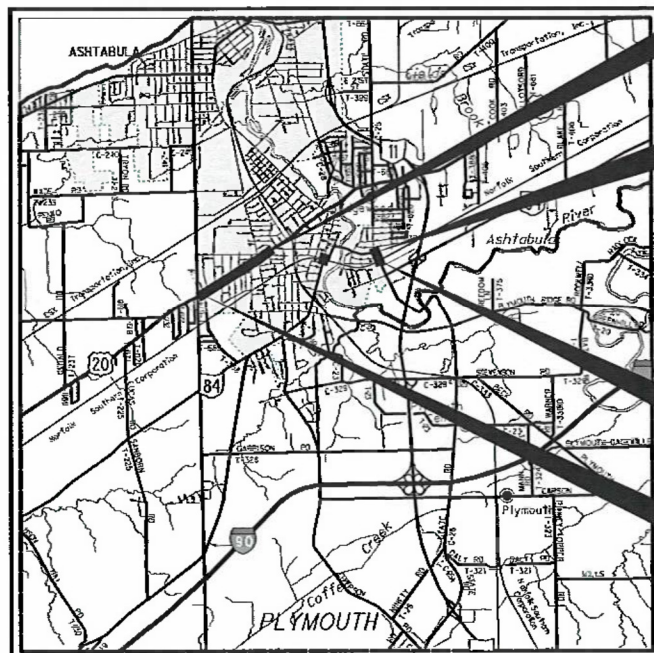
EARTH DISTURBED AREAS

PROJECT EDA: N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EDA: N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EDA: N/A (MAINTENANCE PROJECT)

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 APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



END PROJECT
SLM: 11.88
ATB-20

BEGIN PROJECT
SLM: 14.13
ATB-84

END PROJECT
SLM: 14.22
ATB-84

BEGIN PROJECT
SLM: 11.02
ATB-20

INDEX OF SHEETS:

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PORTION TO BE IMPROVED

INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION:
URBAN PRINCIPAL ARTERIAL - ATB-20 (11.02-11.88)
URBAN MINOR ARTERIAL - ATB-84 (14.13-14.22)
NHS PROJECT ----- YES - ATB-20 (11.02-11.88)
NO - ATB-84 (14.13-14.22)

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 4 - CAPITAL PROGRAMS
2088 S. ARLINGTON RD
AKRON, OH 44306

ENGINEERS SEAL:

SIGNED: *M. Andrasik*
DATE: 4/6/22

CHECK STANDARDS	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1 1/21/22	MT-110.10 7/19/13	800-2019 5/2/22	
DM-4.3 1/15/16	TC-41.20 10/18/13	821 4/20/12	
DM-4.4 1/15/16	TC-42.20 10/18/13	832 10/19/18	
BP-5.1 1/21/22	TC-52.10 10/18/13	921 4/20/12	
BP-7.1 7/11/20	TC-52.20 1/15/21		
BR-2-15 1/21/22	TC-71.10 7/16/21		
MT-95.31 7/19/19			
MT-95.32 4/19/19			
MT-95.50 7/21/17			
MT-99.20 4/19/19			
MT-101.90 7/17/20			
MT-105.10 1/17/20			

APPROVED: *Adrian...*
DATE: 4/6/22 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.
E150(670)

PID NO.
94081

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

ATB-20/ 84-
11.02/ 14.13

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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

BR-2-82 DATED 11/01/82

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

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, 105.02, AND 513.04*. 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.

PROPOSED WORK:

- ATB-84-1367 (OVER ASHTABULA RIVER)
 - PATCH ALL UNSOUND AREAS OF THE EXISTING CONCRETE WEARING SURFACE
 - SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT
 - REPAIR DAMAGED RAILING ON THE RIGHT AND LEFT SIDE OF THE STRUCTURE
 - REPAIR DAMAGED EXPANSION JOINTS
 - ~~CLEAN OUT EXISTING SCUPPERS~~
 - PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND SEAL WITH NON-EPOXY
 - ~~CLEARING AND GRUBBING 15' AROUND STRUCTURE TO REMOVE ALL VEGETATION~~
 - PROVIDE NEW CORRECT STRUCTURE IDENTIFICATION SIGNS

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN,

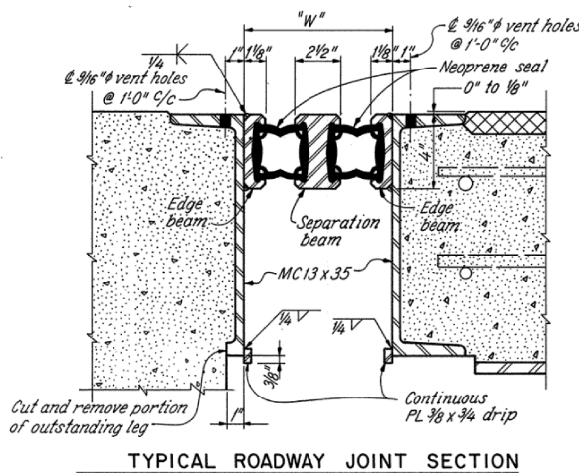
ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

ITEM 516 - STRUCTURAL JOINT OF JOINT SEALER, MISC.: NEOPRENE SEAL

THIS WORK WILL INCLUDE THE REPLACEMENT OF THE EXISTING SEALS FROM EDGE TO EDGE AT BOTH ENDS OF STRUCTURE ATB-84-1367. UPON REMOVAL OF THE SEAL, THE CONTRACTOR WILL ATTEMPT TO MATCH THE REPLACEMENT SEAL AS CLOSELY AS POSSIBLE WITH THE EXISTING SEAL SO AS TO PROVIDE A SNUG, WATERTIGHT SEAL. THE EXISTING SEAL WILL BE FIELD MEASURED PRIOR TO ORDERING MATERIAL.

ALL MANUFACTURER REQUIREMENTS AND SPECIFICATIONS WILL BE MET OR EXCEEDED. THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC.: NEOPRENE SEAL. THIS PRICE WILL INCLUDE THE REMOVAL OF THE EXISTING SEAL, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO REPLACE THE SEAL.



(°F)	ATB-84-1367
35	8 3/8"
45	8"
55	7 5/8"
65	7 1/4"
75	6 15/16"
85	6 9/16"

STRUCTURE PAINTING/CONCRETE SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

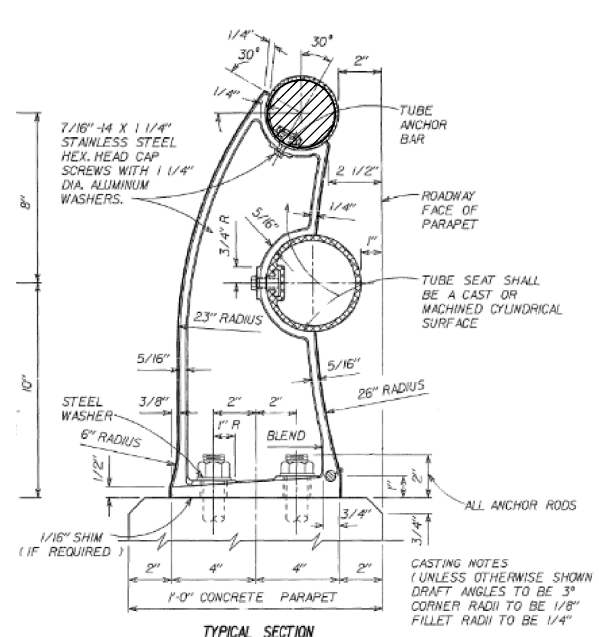
STREAM AVOIDANCE - ATB-84-1367 (OVER ASHTABULA RIVER)

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR IMPACT THE ASHTABULA RIVER AT STRUCTURE ATB-84-1367. NO EXCAVATION, FILLING OPERATIONS SHALL BE PERFORMED IN THE ASHTABULA RIVER. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN THE ASHTABULA RIVER.

ITEM 517 - RAILING, MISC.: REPLACEMENT OF TUBULAR RAILING

THIS WORK WILL CONSIST OF REMOVING THE DAMAGED TUBULAR RAILING AT STRUCTURE ATB-84-1367 AND REPLACING IT WITH NEW TUBULAR RAILING SECTIONS. LENGTHS OF THE TUBULAR RAILING WILL BE FIELD VERIFIED PRIOR TO ORDERING.

THIS WORK WILL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 517 - RAILING, MISC.: REPLACEMENT OF TUBULAR RAILING. THESE PRICES WILL INCLUDE THE REMOVAL OF THE DAMAGED RAILING, THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.



TO BE REPLACED

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 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.

ITEM 516 - STRUCTURAL JOINT REPAIR

THIS WORK WILL CONSIST OF REPAIRING AND/OR REPLACING ALL DAMAGED METAL, WELDS, AND OTHER JOINT COMPONENTS AS DEEMED NECESSARY BY THE PROJECT ENGINEER IN THE REAR EXPANSION JOINT OF ATB-84-1367. JOINT REPAIR WILL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 516, STRUCTURAL JOINT OR JOINT SEALER, MISC: JOINT REPAIR. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, MATERIALS, WELDS, INSPECTIONS, AND INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

OBJECT MARKERS AND STRUCTURE IDENTIFICATION SIGNS

OBJECT MARKERS WILL BE PLACED ON EACH APPROACH OFF THE LEFT AND RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. ONE OM-3L AND ONE OM-3R WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND SHALL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 10.5 FT IN LENGTH.

STRUCTURE IDENTIFICATION SIGNS (I-H25b) WILL BE INSTALLED ON THE SAME POST AND DIRECTLY BELOW THE OBJECT MARKER OFF THE RIGHT SHOULDER ON EACH APPROACH. A QUANTITY OF ONE SIGN WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES:

ATB-84-1367 (2 APPROACH)

- THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:
- ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
 - ITEM 630 - SIGN, FLAT SHEET, 6 SQ FT
 - ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 21 FT
 - ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 3 EACH
 - ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 2 EACH

ITEM 518 - SCUPPER MISC.: CLEANOUT

THIS WORK WILL CONSIST OF REMOVING ALL DEBRIS FROM ON TOP AND INSIDE OF THE SCUPPERS. SCUPPER CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 518, SCUPPER MISC.: CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

Changed from 1376 to 1367

ITEM SPECIAL - MISCELLANEOUS METAL - FORWARD RIGHT CATCH BASIN

THERE IS NO EXISTING CASTINGS FOR THE FORWARD RIGHT CATCH BASIN LOCATED UNDER THE BRIDGE. THE QUANTITY BELOW IS INTENDED FOR A NEW CASTING AT THIS LOCATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL 50 POUNDS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

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DESIGN AGENCY: ODOT --- DISTRICT 4
 PLANNING & ENGINEERING
 DATE: 08/01/18
 STRUCTURE FILE NUMBER:
 DRAWN: CMR
 CHECKED: MJA
 DESIGNED: CMR
 REVISIONS:
 REVIEWED: NRC
 STRUCTURE FILE NUMBER:
STRUCTURE GENERAL NOTES
 ATB-84-1367
 OVER ASHTABULA RIVER
ATB-20/84-11.02/14.13
 PID No. 94081
 1 / 3
 13
 15

CALC: CMR DATE: 3/17/2022
 CHECKED: DATE:

ESTIMATED QUANTITIES

BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
ATB-84-1367 0403377 05/S5K/BR	LUMP						201	1100			CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGE STRUCTURE EQUIPMENT	1/3
	33						512	10050	SY		SEALING OF CONCRETE SURFACES (NON-EPOXY)	Changed to Non-Epoxy
	4358						512	78500	SY		TREATING CONCRETE BRIDGE DECKS WITH GRAVITY	
	1830						512	74500	FT		REMOVAL OF EXISTING PAVEMENT MARKING	
	3						512	74520	EACH		REMOVAL OF EXISTING PAVEMENT MARKING	
	160						516	14600	FT		STRUCTURAL JOINT OR JOINT SEALER, MISC.: NEOPRENE SEAL	1/3
	LUMP						516	14800			STRUCTURAL JOINT OR JOINT SEALER, MISC.: JOINT REPAIR	
	50						517	76300	FT		RAILING, MISC.: REPLACEMENT OF TUBULAR RAILING	1/3
	3						518	12500	EACH		SCUPPER, MISC.: CLEANOUT	1/3
	300						519	11101	SF		PATCHING CONCRETE STRUCTURE, AS PER PLAN	1/3
	49						519	12304	SY		PATCHING CONCRETE BRIDGE DECK - TYPE C	
	50						SPECIAL	61199820	LB		MISCELLANEOUS METAL	
	42						630	02100	FT		GROUND MOUNTED SUPPORT, NO. 2 POST	
	14						630	80100	SF		SIGN, FLAT SHEET, 730.20	
	2						630	84900	EACH		REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
	2						630	86002	EACH		REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	

Changed from 1376 to 1367

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BRIDGE NUMBER

BRIDGE NUMBER	BRIDGE DECK										APPROACH SLABS											
	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA		512	SPEC					LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)		512	SPEC					
	FT	FT	SQ YD		TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN						FT	FT	SQ YD		TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN							
	SY				SY						FT	FT	SQ YD		SY							
ATB-84-1367	930.16	40.00	4134.04		4134.04						25.00	40.00	111.11	FWD	111.11							
											25.00	40.00	111.11	REAR	111.11							

Changed from 1376 to 1367

Changed from 1376 to 1367

3/3	15/15	ATB-20/84-11.02/14.13 PID No. 94081	STRUCTURE DETAILS ATB-84-1367 OVER ASHTABULA RIVER	DESIGNED CMR CHECKED MJA	DRAWN CMR REVISED CMR	REVIEWED NRC STRUCTURE FILE NUMBER	DATE 08/01/18	DESIGN AGENCY ODOT --- DISTRICT 4 PLANNING & ENGINEERING
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