

STATE OF OHIO DEPARTMENT OF TRANSPORTATION D04-BH-FY2022 (A)

FEDERAL PROJECT NUMBER

E210(349)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

BRIDGE MAINTENANCE ON STRUCTURES LOCATED ON VARIOUS ROUTES WITHIN ASHTABULA, MAHONING, STARK, SUMMIT, PORTAGE AND TRUMBULL COUNTIES.

EARTH DISTURBED AREAS

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

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

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 8.

LOCATION MAP
SEE SHEETS 2-4

CITY:

AURORA, AKRON, WILMOT, GREEN, NORTON,
NEWTON FALLS, CUYAHOGA FALLS

TOWNSHIP:

COLEBROOK, MILTON, AUSTINTOWN, MESOPOTAMIA,
ATWATER, PARIS, NEWTON, WEATHERSFIELD,
FARMINGTON, BRISTOL, MECCA

COUNTY:

ASHTABULA, MAHONING, STARK, SUMMIT,
PORTAGE, TRUMBULL

DESIGN DESIGNATION

BRIDGE NAME	NHS	FUNCTIONAL CLASSIFICATION
ATB-322-1356	NO	RURAL MINOR ARTERIAL
MAH-76-0409	YES	RURAL FREEWAYS & EXPRESSWAYS
MAH-76-0508	YES	RURAL FREEWAYS & EXPRESSWAYS
MAH-680-0481	YES	URBAN FREEWAYS & EXPRESSWAYS
MAH-680-0706	YES	URBAN FREEWAYS & EXPRESSWAYS
POR-224-1172	NO	RURAL MINOR ARTERIAL
POR-225-1425	NO	RURAL MAJOR COLLECTOR
POR-306-0216	NO	URBAN PRINCIPLE ARTERIAL
STA-62-0468	NO	RURAL MINOR ARTERIAL
SUM-77-0884	YES	URBAN FREEWAYS & EXPRESSWAYS
SUM-8-0556K1	YES	URBAN FREEWAYS & EXPRESSWAYS
SUM-8-0560J	YES	URBAN FREEWAYS & EXPRESSWAYS
SUM-8-0561K	YES	URBAN FREEWAYS & EXPRESSWAYS
SUM-93-0801	YES	URBAN PRINCIPLE ARTERIAL
SUM-261-0475	NO	URBAN MINOR ARTERIAL
SUM-261-0493	NO	URBAN MINOR ARTERIAL
TRU-5-0762L	YES	URBAN FREEWAYS & EXPRESSWAYS
TRU-5-0809R	YES	URBAN FREEWAYS & EXPRESSWAYS
TRU-5-0810L	YES	URBAN FREEWAYS & EXPRESSWAYS
TRU-5-2680	NO	RURAL MINOR ARTERIAL
TRU-5-3067	NO	RURAL MINOR ARTERIAL
TRU-46-2210	NO	RURAL MAJOR COLLECTOR
TRU-87-0331	NO	RURAL MAJOR COLLECTOR
TRU-87-0338	NO	RURAL MAJOR COLLECTOR
TRU-88-0595	NO	RURAL MINOR ARTERIAL
TRU-88-1328	NO	RURAL MINOR ARTERIAL
TRU-534-2131	NO	RURAL MAJOR COLLECTOR

DESIGN EXCEPTIONS

NONE

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UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig



OHIO 811. 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 4, CAPITAL PLANNING
2088 S. ARLINGTON ROAD
AKRON, OHIO 44306

ENGINEER'S SEAL:



SIGNED: _____
DATE: _____

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
DM-4.3	1/15/16			800-2019	7/16/21
DM-4.4	1/15/16			821	4/20/12
				832	10/19/18
				844	4/20/18
				921	4/20/12
				843	10/18/19
MT-95.30	7/19/19				
MT-95.31	7/19/19				
MT-95.32	4/19/19				
MT-97.10	4/19/19				
MT-101.60	1/17/20				
MT-102.20	4/19/19				
MT-105.10	1/17/20				
TC-41.20	10/18/13				
TC-42.20	10/18/13				
TC-52.10	10/18/13				
TC-52.20	1/15/21				

APPROVED _____

DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____

DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY



DESIGNER
SJD

REVIEWER
MJA 05-19-21

PROJECT ID
103025

SHEET TOTAL
P.1 | 20

D04-BH-FY2022 (A)

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 9/10/2021 TIME: 8:33:18 AM USER: sdudek pwc\ohiodot-pw-bentley.com\shahid-pw-02\Documents\01 Active Projects\District 04_D04103025\00-Engineering\Roadway\Sheets\103025_GT001.dgn

STRUCTURE PROPOSED WORK TABLE

BRIDGE NAME	SFN	FEATURED INTERSECTION	CONCRETE PATCHING (NON-DECK) AND EPOXY-URETHANE (MATCH COLOR)	FIBER WRAP PN 519	STRUCTURE ID SIGNS	DEWATERING	CLEARING & GRUBBING, APP	ABUTMENT REPAIR	CHANNEL CLEANTOUT
ATB-322-1356	0406368	OVER MOSQUITO CREEK	PIERS, DECK EDGES, ABUTMENTS			X	X		
MAH-76-0409	5002826	UNDER NEWTON FALLS RD CR-51	PIER COLUMNS		X		X		
MAH-76-0508	5002885	UNDER DUCK RD CR-53	PIER COLUMNS		X		X		
MAH-680-0481	5006872	OVER PRICE RD AND MILL CREEK	FLOOR, PARAPETS, BACKWALL, ABUTMENTS	X			X		
MAH-680-0706	5003350	UNDER SOUTH AVE CR-151	ABUTMENTS, BACKWALLS, PIER COLUMNS		X		X		
POR-224-1172	6703909	OVER STROUP RD CR-50	FLOOR, ABUTMENTS	X	X		X		
POR-225-1425	6704174	OVER WEST BR MAHONING RIVER	DECK EDGES, ABUTMENTS		X		X		
POR-306-0216	6704743	OVER BR CHAGRIN RIVER	FLOOR, ABUTMENTS, WINGWALLS		X		X		
STA-62-0468	7601999	OVER BR SUGAR CREEK	FLOOR, ABUTMENTS				X		
SUM-77-0884	7702612	UNDER SWARTZ RD CR-155	ABUTMENTS, PIER COLUMNS, PIER CAPS, PARAPETS		X		X		
SUM-8-0556K1	7700733	RELIEF SIDEHILL STRUCTURE	ABUTMENTS, PARAPETS				X		
SUM-8-0560J	7700628	NB SR8 TO PORT TRL RAMP J1	FLOOR, ABUTMENTS, DECK EDGES	X	X		X		
SUM-8-0561K	7700601	PORT TRL TO SB SR8 RAMP K1	FLOOR, PARAPETS, ABUTMENTS, DECK EDGES	X			X		
SUM-93-0801	7707568	OVER OHIO CANAL	FLOOR, ABUTMENTS, PIER CAPS		X		X		
SUM-261-0475	7708580	OVER PIGEON CREEK	FLOOR, ABUTMENTS		X		X		
SUM-261-0493	7708610	OVER PIGEON CREEK	ABUTMENTS		X		X		
TRU-5-0762L	7800339	OVER MAHONING RIVER	ABUTMENTS, PIER WALLS		X		X		
TRU-5-0809R	7800452	OVER CHOCOLATE RUN	ABUTMENTS, WINGWALLS, PARAPETS, PIER WALLS		X		X		
TRU-5-0810L	7800428	OVER CHOCOLATE RUN	ABUTMENTS, WINGWALLS, PARAPETS, PIER WALLS		X		X		
TRU-5-2680	7801386	OVER SUGAR CREEK	ABUTMENTS, BEAMS		X		X		
TRU-5-3067	7801440	OVER BR PYMATUNING CREEK	ABUTMENTS, FORESLOPE WALL, SLAB EDGES, FLOOR		X		X		
TRU-46-2210	7802889	OVER BR MUD CREEK	DECK EDGES, ABUTMENTS, PIER CAPS		X		X		
TRU-87-0331	7805179	OVER ANDREW'S CREEK	-		X		X		X
TRU-87-0338	7805209	OVER SWINE CREEK	-		X		X	X	
TRU-88-0595	7805799	OVER CENTER CREEK	DECK EDGES, ABUTMENTS		X		X		
TRU-88-1328	7805918	OVER MOSQUITO CREEK RESERVOIR	ABUTMENTS, PIERS, PIER COLUMNS				X		
TRU-534-2131	7807678	OVER SWINE CREEK	ABUTMENTS, DECK EDGES, PIER CAPS		X		X		

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

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 CMS 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 WHICH HAVE BEEN VERIFIED IN THE FIELD.

SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

- 843 DATED 10/18/2019
- 844 DATED 4/20/2018

PROPOSED WORK DESCRIPTION

CONCRETE PATCHING (NON-DECK)
- PATCH ALL UNSOUND AREAS AT THE LOCATIONS NOTED IN THE STRUCTURE PROPOSED WORK TABLE

- FIBER WRAP PN 519
-FIBER WRAP THE FOLLOWING STRUCTURE LOCATIONS AND SEAL WITH EPOXY-URETHANE
- MAH-680-0481 - BACKWALLS
 - POR-224-1172 - ABUTMENTS
 - SUM-8-0560J - ABUTMENT, FLOOR
 - SUM-8-0561K - FLOOR

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 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS

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.

OBJECT MARKERS AND STRUCTURE/CULVERT 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 OM SIGNS FOR THE FOLLOWING STRUCTURES:

- MAH-680-0481
- MAH-680-0706
- SUM-8-0556K1
- SUM-8-0560J
- SUM-8-0561K
- TRU-5-0762L

INSTALL ID SIGNS FOR THE FOLLOWING STRUCTURES:

- MAH-76-0409
- MAH-76-0508
- MAH-680-0706
- POR-224-1172
- POR-225-1425
- POR-306-0216
- SUM-77-0884
- SUM-8-0560J
- SUM-93-0801
- SUM-261-0475
- SUM-261-0493
- TRU-5-0762L
- TRU-5-0809R
- TRU-5-0810L
- TRU-5-2680
- TRU-5-3067
- TRU-46-2210
- TRU-87-0331
- TRU-87-0338
- TRU-88-0595
- TRU-534-2131

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, 7.5 FT (ID)
- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 21 FT (OM)
- ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 1 EACH
- ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 1 EACH

STRUCTURE GENERAL NOTES

ATB - SR 322, MAH - IR 76, IR 680, POR - US 224, SR 225, SR 306
STA - US 62, SUM - SR 8, SR 93, SR 261, TRU - SR 5, SR 46, SR 87, SR 88, SR 534

SFN
VARIOUS



DESIGNER CHECKER
SJD MJA

REVIEWER
RAS 03-18-21

PROJECT ID
103025


SUBSET TOTAL
1 11

SHEET TOTAL
P.10 20

CALC:	SJD	DATE:	2/3/2021
CHECKED:	RAS	DATE:	3/18/2021

BRIDGE NO. / STRUCTURE FILE NO.								ESTIMATED QUANTITIES			DESCRIPTION	SEE SHEET
ATB-322-1356 406368 04/STR/BR	MAH-76-0409 5002826 01/IMS/BR	MAH-76-0508 5002885 01/IMS/BR	MAH-680-0481 5006872 01/IMS/BR	MAH-680-0706 5003350 01/IMS/BR	POR-224-1172 6703909 04/STR/BR	POR-225-1425 6704174 04/STR/BR	POR-306-0216 6704743 03/S>2/BR	ITEM	EXTENSION	UNIT		
LS	LS	LS	LS	LS	LS	LS	LS	201	11001		CLEARING AND GRUBBING, AS PER PLAN	1 OF 11
LS								503	11100		COFFERDAMS AND EXCAVATION BRACING	
34	23	23	67	34	34	12	23	512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
			100		200			SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM	
150	200	200	200	300	100	100	100	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 OF 11
	2	2	2	2	2	2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20	
			12	12				630	80100	SF	SIGN, FLAT SHEET	
	15	15	42	42	15	15	15	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
	2	2	6	6	2	2	2	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
	2	2	2	2	2	2	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								202	98000		REMOVAL MISC.: CHANNEL CLEANOUT	
								202	98000		REMOVAL MISC.: ABUTMENT FACING	
								202	38200	FT	GUARDRAIL REMOVED FOR REUSE	
								509	10000	LB	EPOXY COATED REINFORCING STEEL	
								510	10000	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
								844	10000	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	
			100		200		100	843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

SFN
 VARIOUS
 DESIGN AGENCY




DESIGNER: SJD
 CHECKER: MJA
 REVIEWER: RAS 05-18-21
 PROJECT ID: 103025
 SUBSET: 3 TOTAL: 11
 SHEET: P.12 TOTAL: 20

STRUCTURE ESTIMATED QUANTITIES
 ATB - SR 322, MAH - IR 76, IR 680, POR - US 224, SR 225, SR 306
 STA - US 62, SUM - SR 8, SR 93, SR 261, TRU - SR 5, SR 46, SR 87, SR 88, SR 534

CALC: SJD DATE: 2/3/2021
 CHECKED: RAS DATE: 3/18/2021

BRIDGE NO. / STRUCTURE FILE NO.								ESTIMATED QUANTITIES			DESCRIPTION	SEE SHEET
STA-62-0468 7601999 04/STR/BR	SUM-77-0884 7702612 01/IMS/BR	SUM-8-0556K1 7700733 02/NHS/BR	SUM-8-0560J 7700628 02/NHS/BR	SUM-8-0561K 7700601 02/NHS/BR	SUM-93-0801 7707568 02/NHS/BR	SUM-261-0475 7706580 03/S>2/BR	SUM-261-0483 7708610 03/S>2/BR	ITEM	EXTENSION	UNIT		
LS	LS	LS	LS	LS	LS	LS	LS	201	11001		CLEARING AND GRUBBING, AS PER PLAN	1 OF 11
								503	11100		COFFERDAMS AND EXCAVATION BRACING	
17	34	28	34	56	23	12	12	512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
			75	100				SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM	
150	300	250	75	150	200	100	100	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 OF 11
	2		1		2	2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20	
		12	12	12				630	80100	SF	SIGN, FLAT SHEET	
	15	42	42	42	42	42	42	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
	2		1		6	6	6	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
	2		1		2	2	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								202	98000		REMOVAL MISC.: CHANNEL CLEANOUT	
								202	98000		REMOVAL MISC.: ABUTMENT FACING	
								202	38200	FT	GUARDRAIL REMOVED FOR REUSE	
								509	10000	LB	EPOXY COATED REINFORCING STEEL	
								510	10000	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
								844	10000	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	
			75	100				843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

SFN
 VARIOUS
 DESIGN AGENCY




DESIGNER: SJD CHECKER: MJA
 REVIEWER: RAS 05-18-21
 PROJECT ID: 103025
 SUBSET: 4 TOTAL: 11
 SHEET: P.13 TOTAL: 20

STRUCTURE ESTIMATED QUANTITIES
 ATB - SR 322, MAH - IR 76, IR 680, POR - US 224, SR 225, SR 306
 STA - US 62, SUM - SR 8, SR 93, SR 261, TRU - SR 5, SR 46, SR-87, SR 88, SR 534

CALC:	SJD	DATE:	2/3/2021
CHECKED:	RAS	DATE:	3/18/2021

BRIDGE NO. / STRUCTURE FILE NO.								ESTIMATED QUANTITIES			DESCRIPTION	SEE SHEET
TRU-5-0762L 7800339 02/NHS/BR	TRU-5-0809R 7800452 02/NHS/BR	TRU-5-0810L 7800428 02/NHS/BR	TRU-5-2680 7801386 04/STR/BR	TRU-5-3067 7801440 04/STR/BR	TRU-46-2210 7802889 04/STR/BR	TRU-87-0331 7805179 04/STR/BR	TRU-87-0338 7805209 04/STR/BR	ITEM	EXTENSION	UNIT		
LS	LS	LS	LS	LS	LS	LS	LS	201	11001		CLEARING AND GRUBBING, AS PER PLAN	1 OF 11
								503	11100		COFFERDAMS AND EXCAVATION BRACING	
17	12	12	34	45	17	9		512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM	
150	100	100	300	50	150			519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 OF 11
								601	35100		ROCK CHANNEL PROTECTION, MISC.: REMOVE AND REINSTALL	2 OF 11
								606	15101	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN	2 OF 11
1	1	1	2	2	2	2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20	
12								630	80100	SF	SIGN, FLAT SHEET	
42	7.5	7.5	15	15	15	15	15	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
1	1	1	2	2	2	2	2	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
1	1	1	2	2	2	2	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							LS	202	98000		REMOVAL MISC.: CHANNEL CLEANOUT	2 OF 11
							LS	202	98000		REMOVAL MISC.: ABUTMENT FACING	
							150	202	38200	FT	GUARDRAIL REMOVED FOR REUSE	
								357	10000	LB	EPOXY COATED REINFORCING STEEL	
								52	10000	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
								75	844	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	
				150				843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

SFN
 VARIOUS
 DESIGN AGENCY




DESIGNER	CHECKER
SJD	MJA
REVIEWER	
RAS 05-18-21	
PROJECT ID	
103025	
SUBSET	TOTAL
5	11
SHEET	TOTAL
P.14	20

STRUCTURE ESTIMATED QUANTITIES
 ATB - SR 322, MAH - IR 76, IR 680, POR - US 224, SR 225, SR 306
 STA - US 62, SUM - SR 8, SR 93, SR 261, TRU - SR 5, SR 46, SR 87, SR 88, SR 534

CALC:	SJD	DATE:	2/3/2021
CHECKED:	RAS	DATE:	3/18/2021

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.												
TRU-88-0595 7805799 04/STR/BR	TRU-88-1328 78005918 04/STR/BR	TRU-534-2131 7807678 04/STR/BR						ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
LS	LS	LS						201	11001		CLEARING AND GRUBBING, AS PER PLAN	1 OF 11
								503	11100		COFFERDAMS AND EXCAVATION BRACING	
23	23	23						512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM	
200	200	200						519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1 OF 11
2		2						630	80100	SF	SIGN, FLAT SHEET, 730.20	
								630	80100	SF	SIGN, FLAT SHEET	
15		15						630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
2		2						630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
2		2						630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								202	98000		REMOVAL MISC.: CHANNEL CLEANOUT	
								202	98000		REMOVAL MISC.: ABUTMENT FACING	
								202	38200	FT	GUARDRAIL REMOVED FOR REUSE	
								509	10000	LB	EPOXY COATED REINFORCING STEEL	
								510	10000	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
								844	10000	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	
								843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

SFN
 VARIOUS
 DESIGN AGENCY



DESIGNER	CHECKER
SJD	MJA
REVIEWER	
RAS 05-18-21	
PROJECT ID	
103025	
SUBSET	TOTAL
6	11
SHEET	TOTAL
P.15	20

STRUCTURE ESTIMATED QUANTITIES
 ATB - SR 322, MAH - IR 76, IR 680, POR - US 224, SR 225, SR 306
 STA - US 62, SUM - SR 8, SR 93, SR 261, TRU - SR 5, SR 46, SR 87, SR 88, SR 534