

LOCATION MAP

LATITUDE: N41°19'11" LONGITUDE: W80°45'47"

STRUCTURE	инѕ	FUNCTIONAL CLASSIFICATION	STRUCTURE	NHS	FUNCTIONAL CLASSIFICATION
ATB-7-2755	Ю	URBAN MINOR ARTERIAL	ATB-90-2840R	YES	URBAN INTERSTATE
AT8-7-3039	NO	URBAN MINOR ARTERIAL	ATB-187-0234	NO	RURAL MAJOR COLLECTOR
ATB-11-0855	NO	RURAL OTHER FREEWAY &	ATB-167-0884	NO	RURAL MAJOR COLLECTOR
A18-11-0000	NO	EXPRESSWAY	ATB-193-1137	NO	RURAL MAJOR COLLECTOR
ATB-20-0165	YES	URBAN PRINCIPAL ARTERIAL	ATB-322-0528	NO	RURAL MINOR ARTERIAL
ATB-20-0325	YES	URBAN PRINCIPAL ARTERIAL	ATB-534-0108	NO	RURAL MAJOR COLLECTOR
ATB 20-2160	YES	URBAN PRINCIPAL ARTERIAL	POR-14-0624	YES	URBAN PRINCIPAL ARTERIAL
ATB-45-2339	NO	URBAN MINOR ARTERIAL	POR-44-2183	NO	RURAL MINOR ARTERIAL
ATB-84-1475	NO	URBAN MINOR ARTERIAL	POR-86-1195	МО	URBAN MAJOR COLLECTOR
ATB-84-2048	NO	RURAL MINOR ARTERIAL	TRU-5-1624	YES	URBAN PRINCIPAL ARTERIAL
ATB-90-1582L	YES	RURAL INTERSTATE	TRU-5-1917	YES	URBAN PRINCIPAL ARTERIAL
ATB-90-1583R	YES	RURAL INTERSTATE	TRU-7-1185	NO	RURAL MINOR ARTERIAL
ATB-90-2173L	YES	RURAL INTERSTATE	TRU-45-1693	NO	RURAL MINOR ARTERIAL
ATB-90-2172R	YES	RURAL INTERSTATE	TRU-45-2011	NO	RURAL MINOR ARTERIAL
ATB-90-2272L	YES	URBANINTERSTATE	TRU-46-0989	NO	URBAN MAJOR COLLECTOR
ATB-90-2272R	YES	URBANINTERSTATE	TRU-87-2056	NO	RURAL MAJOR COLLECTOR
ATB-90-2386	NO	URBAN INTERSTATE	TRU-88-0900	NO	RURAL MINOR ARTERIAL
ATB-90-2650	Ю	URBAN INTERSTATE	TRU-88-1328	NO.	RURAL MINOR ARTERIAL
ATB-90-2724	NO	URBAN INTERSTATE	TRU-88-2331	NO	RURAL MINOR ARTERIAL
ATB-90-2771L	YES	URBAN INTERSTATE	TRU-534-0451	NO	URBAN MAJOR COLLECTOR
ATB-90-2771R	YES	URBAN INTERSTATE	TRU-534-0990	МО	RURAL MAJOR COLLECTOR
ATB-90-2838L	YES	URBAN INTERSTATE			

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	ATB-90-2840R	YES	URBAN INTERSTATE
	ATB-187-0234	NO	RURAL MAJOR COLLECTOR
-	ATB-167-0884	NO	RURAL MAJOR COLLECTOR
	ATB-193-1137	NO	RURAL MAJOR COLLECTOR
	ATB-322-0528	NO	RURAL MINOR ARTERIAL
	ATB-534-0108	NO	RURAL MAJOR COLLECTOR
	POR-14-0824	YES	URBAN PRINCIPAL ARTERIAL
	POR-44-2183	NO	RURAL MINOR ARTERIAL
	POR-86-1195	NO	URBAN MAJOR COLLECTOR
	TRU-5-1624	YES	URBAN PRINCIPAL ARTERIAL
	TRU-5-1917	YES	URBAN PRINCIPAL ARTERIAL
	TRU-7-1165	NO	RURAL MINOR ARTERIAL
	TRU-45-1693	МО	RURAL MINOR ARTERIAL
	TRU-45-2011	NO	RURAL MINOR ARTERIAL
	TRU-46-0989	NO	URBAN MAJOR COLLECTOR
	TRU-87-2056	NO	RURAL MAJOR COLLECTOR
	TRU-88-0900	80	RURAL MINOR ARTERIAL
	TRU-88-1328	ΝO	RURAL MINOR ARTERIAL
	TRU-88-2331	NO	RURAL MINOR ARTERIAL
	TRU-534-0451	NO	URBAN MAJOR COLLECTOR
	TRU-534-0990	Ю	RURAL MAJOR COLLECTOR

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

D04-BH-FY2018 (EAST)

CITIES OF CONNEAUT, CORTLAND, AND GENEVA

VILLAGES OF GARRETTSVILLE, MANTUA, NEWTON FALLS, AND NORTH KINGSVILLE

ASHTABULA, BAZETTA, BRACEVILLE, BRISTOL, BURGHILL, DORSET, GENEVA, HARTFORD, HOWLAND, JEFFERSON, KINGSVILLE, KINSMEN, LENOX, MECCA, NEWLYME, ORWELL, PIERPONT, PLYMOUTH, SAYBROOK, VERNON, AND WINDSOR TOWNSHIP

> ASHTABULA, PORTAGE AND TRUMBULL COUNTY

PROJECT DESCRIPTION

BRIDGE MAINTENANCE ON VARIOUS ROUTES IN ATB, POR AND TRU COUNTIES.

EARTH DISTURBED AREAS

PROJECT EDA: ESTIMATED CONTRACTOR EDA: NOTICE OF INTENT EDA:

N/A MAINTENANCE ONLY N/A MAINTENANCE ONLY N/A MAINTENANCE ONLY ERA

NON-FED

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NONE

2016 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 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

INDEX OF SHEETS:

SUPPLEMENTAL

SPECIAL

TITLE SHEET	1
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DESIGN EXCEPTIONS

NONE



PLAN PREPARED BY: ODOT --- DISTRICT 4 PLANNING AND ENGINEERING 2088 SOUTH ARLINGTON ROAD AKRON, OHIO 44306

				\$1ANUAN	U CONSTRUCTION BRAMINGS	SPECIFICATIONS	PROVISIONS
	DM-4.3	V15/16	MT-97.10	7/18/14		800-2016 1/19/18	
			MT-101.70	1/17/14		821 4/20/12	
	MG5-1.1	7/21/17	MT-101.75	7/15/16		832 1/17/14	
ENGWITTOR SEAL.	MGS-2.1	7/19/13	MT-105.10	7/19/13		843 4/18/03	
ENGINEERS SEAL:	MGS-3.1	7/21/17				921 4/20/12	
and little	MGS-4.3	1/18/13	TC-42.20	10/18/13			
TATE OF ONLY	MGS-6.1	7/19/13	TC-71.10	1/20/17			
MARK ANDRASIK	RM-4,2	4/18/14	.,.				
E-80194 E	DBR-2-73	1/19/02					
ONAL ENGLIS	05-1-92	7/18/03					
WALL ELVIN	EXJ-6-06	1/18/13					
SIGNED: M. QLI	ISI-1-99	7/15/16					
SIGNED: 21. 01.1 DATE: 13/18/13	ит-95.30	7/21/17					

CTANDAGE CONCTONCTION DEAWINGS

DATE 13/18//7 DISTRICT DEPUTY DIRECTOR

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04-BH-FY

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY) OGPUPS 1-800-925-0988 ODOT 330-786-4826 MIKE SIMPKINS

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

THIS WORK SHALL CONSIST OF REMOVING AND REPLACING THE EXISITNG RAISED PAVEMENT MARKINGS ON THE DECK SURFACE THAT ARE REMOVED TO COMPLETE WORK UNDER ITEM 257 -DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT DIAMOND AND ITEM SPEC - BRIDGE DECK GROOVING. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 621 - RAISED PAVEMENT MARKER REMOVED, 4 EACH ITEM 621 - RPM, 4 EACH

THIS WORK WILL CONSIST OF REPACING THE EXISITNG PAVEMENT MARKINGS THAT ARE REMOVED DURING THE SURFACE PREPARTION OF ITEM 512, TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

BARRIER REFLECTORS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS DIRECTED BY THE ENGINEER FOR INSTALLING/REPLACING BARRIER REFLECTORS ON ALL EXISTING BARRIER RUNS WITHIN THE PROJECT LIMITS.

		642	642	642	642	642	642	626
REF NO.	STRUCTURE	EDGE LINE, 6"	LANE LINE, 6"	CENTER LINE	CHANNELIZING LINE, 8"	LANE ARROW	CURB MARKING	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL
		MILE	MILE	MILE	FT	EACH	FT	EACH
	ATB-7-2755	0.189		0.095				10
	ATB-7-2733 ATB-7-3039	0.198	0.099	0.000				6
	ATB-11-0856	0.130	0.000					6
	ATB-20-0160			0.013	66.50	1		6
	ATB-20-0325		0.034	1.010	1 22.00	<u> </u>		6
	ATB-20-2160	0.275	0.275	0.138				10
	ATB-45-2339	0.037	1	0.019				6
	ATB-84-1475	0.150		0.075				8
	ATB-84-2048	0.150		0.075				8
	ATB-90-1582L	0.159	0.080					10
	ATB-90-1583R	0.161	0.080					10
	ATB-90-2173L	0.062	0.031					6
	ATB-90-2172R	0.062	0.031					6
	ATB-90-2272L	0.062	0.031					6
	ATB-90-2272R	0.062	0.031					6
	ATB-90-2385	0.157	0.078					10
	ATB-90-2651							8
	ATB-90-2724							8
	ATB-90-2771L	0.063	0.031					6
	ATB-90-2771R	0.044	0.022					6
	ATB-90-2838L	0.094	0.047					6
	ATB-90-2840R	0.094	0.047					6
	ATB-167-0234	0.062		0.031				6
	ATB-167-0884	0.046		0.023				6
	ATB-193-1137	0.037		0.018				6
	ATB-322-0528	0.084		0.042				6
	ATB-534-0106	0.061		0.031				6
	POR-14-0620	0.077		0.039				6
	POR-44-2180	0.042		0.021				6
	POR-88-1196	0.049		0.024				6
	TRU-5-1621	0.081		0.041				6
	TRU-5-1917			0.016	18	2		6
	TRU-7-1164	0.116		0.058				8
	TRU-45-1691	0.055		0.027				6
	TRU-45-2010	0.065		0.033				6
	TRU-46-0985	0.042		0.021				6
	TRU-87-2056	0.053		0.027				6
	TRU-88-0900	0.037		0.018				6
	TRU-88-1328	0.099		0.050				6
	TRU-88-2332	0.123		0.061				8
	TRU-534-0450				127	1	210	6
	TRU-534-0988	0.085		0.042				6
TOTALS C	L CARRIED TO GENERAL SUMMARY	3.24	0.92	1.04	212	4	210	284
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PAINTING AND SEALING OPERATIONS:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT, OR OTHER STRUCTURAL MATERIALS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE FROM ENTERING THE STATE SCENIC UPPER CUYAHOGA RIVER, CONNEAUT CREEK, GRAND RIVER, ASHTABULA RIVER AND/OR OTHER STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OR A RELEASE.

THE CONTRACTOR SHALL LIMIT THE AMOUNT OF OPEN CONCRETE SEALER TO THE EXTENT PRACTICABLE TO PERFORM THE REQUIRED WORK. DISCARDED CONTAINERS SHALL BE REMOVED FROM THE VICINITY OF STATE SCENIC UPPER CUYAHOGA RIVER, CONNEAUT CREEK, GRAND RIVER, ASHTABULA RIVER AND UNDER NO CIRCUMSTANCES SHALL ANY SEALER BE STORED WITH THE 100-YEAR FLOOD PLAIN OF THE STATE SCENIC UPPER CUYAHOGA RIVER, CONNEAUT CREEK, GRAND RIVER AND ASHTABULA RIVER.

STATE SCENIC RIVER AVOIDANCE:

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THE UPPER CUYAHOGA RIVER, CONNEAUT CREEK, GRAND RIVER AND ASHTABULA RIVER AT THE POR-44-21.83, ATB-7-27.55, ATB-7-30.39, ATB-90-21.73L, ATB-90-21.72R, ATB-322-5.28, ATB-90-15.82L AND ATB-90-15.83R BRIDGE LOCATIONS ARE DESIGNATED STATE SCENIC RIVER. UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT (LIFT, SCAFFOLDING, BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS ENTER THE STATE SCENIC RIVERS. NO WORK SHALL BE PERFORMED BELOW THE IDENTIFIED ORDINARY HIGH WATER MARK (OHWM) OF THESE STATE SCENIC RIVERS. NO FILL MATERIAL SHALL BE PLACED BELOW THE OHWM OF THESE STATE SCENIC RIVERS.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ALL CONSTRUCTION MATERIALS, WASTE MATERIALS, WATER CHEMICALS OR OTHER SUBSTANCES USED TO CONSTRUCT THE PROJECT FROM ENTERING THE STATE SCENIC RIVERS. SHOULD ANY MATERIALS AND/OR DEMOLITION DEBRIS FALL INTO THE RIVER, ALL WORK SHALL BE STOPPED, AND ALL DEBRIS/MATERIAL, ETC. SHALL BE REMOVED IMMEDIATELY, AND IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

TREE CUTTING/REMOVAL PROHIBITED:

THE STRUCTURES ARE LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. TREE TRIMMING IS PERMITTED AT THESE LOCATIONS AS DIRECTED BY THE PROJECT ENGINEER, HOWEVER, NO TREES SHALL BE REMOVED AT THESE LOCATIONS. A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

WETLAND AVOIDANCE:

NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY WETLANDS LOCATED ADJACENT TO OR BENEATH THE BRIDGES AT ATB-20-3.25, ATB-7-27.55, ATB-84-14.75, ATB-90-27.71L, ATB-90-27.71R, ATB-167-2.34, ATB-193-11.37, ATB-322-5.28, TRU-46-9.89, TRU-87-20.56 AND TRU-88-9.00. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN THESE WETLANDS.

ODNR PRECONSTRUCTION NOTIFICATION - POR-14-6.24, POR-44-21.83, ATB-7-27.55, ATB-7-30.39, ATB-90-21.73L, ATB-90-21.72R, ATB-322-5.28, ATB-90-15.82L AND ATB-90-15.83R:

THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF NATURAL AREA & PRESERVES, MUST RECEIVE PRECONSTRUCTION NOTIFICATION. AT LEAST FIFTEEN (15) CALENDAR DAYS PRIOR TO THE BEGINNING OF ANY WORK INCLUDING INSTALLATION OF MAINTENANCE OF TRAFFIC SIGN AGE, STAGING OF EQUIPMENT AND/OR MATERIALS, ETC., WITHIN 1,000 FEET OF THE STATE SCENIC UPPER CUYAHOGA RIVER, CONNEAUT CREEK, GRAND RIVER AND ASHTABULA RIVER, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE OHIO DEPARTMENT OF NATURAL RESOURCES. DIVISION OF NATURAL AREAS.

INFORMATION REQUIRED AS PART OF THE PRECONSTRUCTION NOTIFICATION SHALL INCLUDE:

1) THE CONTRACTORS NAME AND ADDRESS 2) CONTRACTOR AND ODOT, DISTRICT 4 CONSTRUCTION REPRESENTATIVE CONTACT INFORMATION 3) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REHABILITATION 4) ONE COPY OF THE CONSTRUCTION PLANS.

THE CONTRACTOR SHALL COMPILE THE ABOVE PRECONSTRUCTION NOTIFICATION AND SUBMIT IT TO:

MATTHEW SMITH, NE OHIO ASSISTANT REGIONAL SCENIC RIVER ODNR DIV. WATERCRAFT WEST BRANCH STATE PARK 5708 ESWORTHY ROAD RAVENNA, OHIO 44266 OFFICE: 330-298-9195 CELL: 440-225-5582 FAX: 330-297-5653 EMAIL: matthew.smith@dnr.state.oh.us

A COPY OF THE NOTIFICATION SHALL BE PROVIDED TO THE ODOT PROJECT ENGINEER. THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE PRECONSTRUCTION NOTIFICATION. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN: ITEM 202 -PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

MOSOUITO CREEK AND SHENANGO WILDLIFE AREAS -TRU-87-20.56, TRU-88-13.28 & TRU-88-23.31:

THE CONTRACTOR SHALL NOT STAGE OR STORE ANY CONSTRUCTION EQUIPMENT AND/OR MATERIALS WITHIN THE MOSQUITO CREEK OR SHENANGO WILDLIFE AREA BOUNDARIES.

MOSQUITO LAKE STATE PARK FACILITIES:

THE CONTRACTOR SHALL NOT STAGE OR STORE ANY CONSTRUCTION EQUIPMENT AND/OR MATERIALS WITHIN THE MOSQUITO LAKE STATE PARK BOUNDARY. THIS INCLUDES THE FISHING ACCESS PARKING LOTS LOCATED ADJACENT TO THE SR 88 CAUSEWAY AND MAINTAINING TWO-WAY BOAT TRAFFIC BENEATH THE TRU-88-13.28 BRIDGE OVER MOSQUITO CREEK RESERVOIR AT ALL TIMES THROUGHOUT PROJECT CONSTRUCTION.

MOSOUITO CREEK RESERVOIR/STREAM AVOIDANCE:

UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT (LIFT, SCAFFOLDING. BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS ENTER MOSQUITO CREEK RESERVOIR OR THE STREAMS LOCATED AT THE REMAINING BRIDGES AT ATB-20-1.65, ATB-20-3.25, ATB-45-23.39, ATB-167-2.34, ATB-167-8.84, ATB-193-11.37, ATB-534-1.06, POR-88-11.95, TRU-5-16.24, TRU-5-19.17, TRU-7-11.65, TRU-45-16.93, TRU-45-20.11, TRU-46-9.89, TRU-87-20.56, TRU-88-9.00, TRU-88-13.28, TRU-88-23.31, TRU-534-4.51 AND TRU-534-9.90. NO WORK SHALL BE PERFORMED BELOW THE IDENTIFIED ORDINARY HIGH WATER MARK (OHWM) OF THESE WATERS. NO FILL MATERIAL SHALL BE PLACED BELOW THE OHWM. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ALL CONSTRUCTION MATERIALS, WASTE MATERIALS, WATER CHEMICALS OR OTHER SUBSTANCES USED TO CONSTRUCT THE PROJECT FROM ENTERING THE RESERVOIR AND STREAMS. SHOULD ANY MATERIALS AND/OR DEMOLITION DEBRIS FALL INTO THE RESERVOIR OR THE STREAMS, ALL WORK SHALL BE STOPPED, AND ALL DEBRIS/MATERIAL, ETC. SHALL BE REMOVED IMMEDIATELY, AND IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

MIGRATORY BIRD PROTECTION:

NESTS FOR NATIVE BIRDS PROTECTED UNDER THE MIGRATORY BIRD TREATY ACT (MBTA) WERE IDENTIFIED ON THE BRIDGES AT ATB-20-3.25, ATB-7-27.55, ATB-90-15.82L, ATB-90-15.83R, ATB-90-21.73L, ATB-90-21.72R, ATB-322-5.28, POR-14-6.24, TRU-5-16.24, TRU-11-11.65, TRU-45-20.11, TRU-534-4.51, DURING THE FIELD SURVEYS FOR THE PROJECT. THE MBTA PROHIBITS THE KILLING OR CAPTURE OF NATIVE BIRDS PROTECTED UNDER THE ACT. IF CONSTRUCTION ACTIVITIES ARE TO OCCUR BETWEEN THE DATES OF MARCH I AND OCTOBER I ON THIS STRUCTURE, THEN PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR MUST INSPECT THE STRUCTURE FOR EVIDENCE OF AN ACTIVE BIRD NEST CONTAINING AN EGG OR CHICK. WRITTEN CONFIRMATION OF THE INSPECTION, INCLUDING A STATEMENT WHETHER AN ACTIVE NEST WAS FOUND, MUST BE PROVIDED TO THE ENGINEER. IF AN ACTIVE NEST CONTAINING AN EGG OR CHICK IS ENCOUNTERED, IMPACTS TO THE NEST MUST BE AVOIDED UNTIL ALL DEVELOPING BIRDS ARE ABLE TO INDEPENDENTLY FLY FROM THE NEST. IF NO NESTS ARE ENCOUNTERED DURING THE INSPECTION, OR IF ONLY INACTIVE NESTS THAT DO NOT CONTAIN AN EGG OR CHICK ARE ENCOUNTERED, CONSTRUCTION ACTIVITIES CAN PROCEED. INACTIVE NESTS CAN BE REMOVED AND DESTROYED

POR-SR 14-6.24 (SFN: 6700586) & POR-SR 44-2183 (SFN: 6701639) - LAKE ROCKWELL RESERVOIR & UPPER CUYAHOG RIVER/AKRON DRINKING WATER SUPPLY AVOIDANCE:

LAKE ROCKWELL RESERVOIR. WHICH IS FED BY THE STATE SCENIC UPPER CUYAHOGA RIVER, IS A SOURCE FOR THE CITY OF AKRON DRINKING WATER SUPPLY. BECAUSE OF THIS, LAKE ROCKWELL RESERVOIR AND THE SURROUNDING AREAS ARE HIGHLY RESTRICTED. UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT (BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS ENTER BELOW THE ORDINARY HIGH WATER MARK (OHWM) OF 1052 MSL ESTABLISHED FOR LAKE ROCKWELL RESERVOIR.

THE CONTRACTOR SHALL DEVELOP A SPILL CONTAINMENT AND CLEANUP PLAN PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND PARTICULAR ATTENTION SHALL ALSO BE GIVEN TO DRAINAGE WAYS, DITCHES, WETLANDS AND OPEN WATER AREAS. APPROPRIATELY DESIGNED EROSION CONTROLS SHALL BE UTILIZED AND ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL FINAL PROJECT SITE STABILIZATION IS ACHIEVED AND ACCEPTED BY THE ENGINEER, EQUIPMENT AND MATERIAL STAGING AREAS SHALL BE KEPT AWAY FROM THE LAKE ROCKWELL RESERVOIR, WETLANDS, AND OTHER WATERS OF THE UNITED STATES TO THE EXTENT PRACTICABLE. IDLE EQUIPMENT, PETROCHEMICALS AND TOXIC/HAZARDOUS MATERIALS SHOULD NOT BE STORED IN PROXIMITY OF LAKE ROCKWELL RESERVOIR, WETLANDS AND OTHER WATERS OF THE UNITED STATES, ALL PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER AND UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DISCHARGE ANY PETROCHEMICALS AND/OR TOXIC AND HAZARDOUS MATERIALS.

SPILLS OF FUELS, OILS, CHEMICALS OR OTHER TOXIC/HAZARDOUS MATERIALS SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AND REPORTED TO THE PROJECT ENGINEER. IN EACH CASE WHERE THERE IS AN INCIDENT OF HAZARDOUS MATERIAL SPILL IN A REPORTABLE QUANITY OR ANY SPILL THAT COULD POSE A RISK TO SURFACE WATER OR GROUNDWATER, THE CONTRACTOR SHALL, AS SOON AS POSSIBLE, NOTIFY THE PROJECT ENGINEER AND THE FOLLOWING AGENCIES:

STREETSBORO WATER DEPARTMENT EMERGENCY/SERVICE: (STREETSBORO SERVICE DEPARTMENT) 330-626-2856 EMERGENCY/SERVICE AFTER HOURS: (STREETSBORO POLICE DEPARTMENT NON-EMERGENCY) 330-626-4976

STREETSBORO FIRE DEPARTMENT PHONE: 330-626-4664 CALL 9-1-1 FOR ALL EMERGENCIES

CITY OF AKRON WATER DISTRIBUTION DIVISION FOR EMERGENCIES OR SECURITY CONCERNS: PHONE: 330-375-2420 (24-HOUR DISPATCH)

OHIO EPA SPILL REPORTING - 24 HOUR EMERGENCY SERVICE 800-282-9378

PROVIDE AS MUCH OF THE FOLLOWING INFORMATION AS POSSIBLE:

- 1. TIME OBSERVED
- 2. LOCATION
- 3. MATERIAL RELEASED
- 4. PROBABLE SOURCE
- 5. VOLUME & DURATION 6. PRESENT & ANTICIPATED MOVEMENT OF CONTAMINANT
- 7. PERSONNEL ON SCENE
- 8. ACTIONS ALREADY INITIATED
- 9. PERSON(S) ON THE SCENE TO CONTACT.

THE CONTRACTOR SHALL DEVELOP A SPILL CONTAINMENT AND CLEANUP PLAN PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES INCLUDING ANY NECESSARY CLEARING AND GRUBBING ACTIVITIES.

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MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. ON ROADS WITH 3 OR LESS LANES: A MINIMUM OF ONE BIDIRECTIONAL TEN FOOT LANE SHALL BE MAINTAINED ON THE EXISTING AND COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

ON ROADS WITH 4 OR MORE LANES: A MINIMUM OF ONE ELEVEN FOOT LANE SHALL BE MAINTAINED ON THE EXISTING AND COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

- 2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF
- 3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.
- 4. ATB-11 AND ATB-90: TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.
- 5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS ONF [1] MILF.
- 6. ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
- 7. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH PERMANENT MARKINGS) ALL LANE, CENTER, CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE SURFACE PREPARATION.
- 8. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION.

9. THE CONTRACTOR SHALL PLACE THE SIGN W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THAT SIGN SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614- MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAIN-TENANCE OF TRAFFIC ON THIS PROJECT: 614, WORK ZONE MARKING SIGN, (ALL PHASES) 50 EACH

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REP- RESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISS- ING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

> CHRISTMAS FOURTH OF JULY NEW YEARS LABOR DAY MEMORIAL DAY THANKSGIVING GENEVA GRAPE FESTIVAL (SEPTEMBER 29-30) MANTUA POTATO STOMP

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEP-ENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY TIME ALL LANES MUST OR EVENT BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY MONDAY12:00N FRIDAY THROUGH 6:00 AM TUESDAY TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY

THURSDAY (THANKSGIVING ONLY) 6:00 AM WEDNESDAY THROUGH 6:00 AM

MONDAYFRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY

SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$2000 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

LANE CLOSURES (ATB-II. ATB-90)

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT: http://plcm.dot.state.oh.us

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIRE-MENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2500 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

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 THE 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 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 DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE. AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

	NOTIFICATIO	ON TIME TABLE					
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO					
ROAD & RAMP	>= 2WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE					
CLOSURES	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE					
CLUSURES	<12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE					
	•						
	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE					
RESTRICTIONS	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE					
START OF							
CONSTRUCTION &	N/A	 14 CALENDAR DAYS PRIOR TO IMPLEMENTATION					
TRAFFIC PATTERNS	17/2	THE CALENDARY DATE THICK TO THE ELIVERY TATION					
CHANGES							

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

LANE CLOSURES (ATB-84, POR-14, TRU-534 AND POR-88)

ALL LANES OF TRAFFIC ON STRUCTURES ATB-84-1475, ATB-84-2048. POR-14-6.24. TRU-534-4.51 AND POR-88-11.95 SHALL BE OPEN TO TRAFFIC FROM 6AM TO 8PM DAILY. SHOULD THE CONTRACTOR FAIL TO MEET THE ABOVE REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$2000 PER HOUR OR PORTION THEROF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

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ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS WEB PAGE FOR ROADWAY STANDARDS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL AND ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70.

OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

DECK EDGE REPLACEMENT TRU-7-11.64

THE WORK ZONE LAYOUT FOR TRU-7-11.64 DECK EDGE REPLACEMENT SHOWN ON SHEET 6 SHALL BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION. THE ADJACENT LANE TO THE PORTABLE BARRIER MAY BE CLOSED DURING WORKING HOURS AND TRAFFIC SHALL BE MAINTAINED PER STANDARD CONSTRUCTION DRAWING MT-97.10. DURING NON-WORKING HOURS, ONE LANE OF TRAFFIC ON TRU-7 SHALL BE MAINTAINED.

THE CONTRACTOR MAY MAINTAIN TRAFFIC FOR TRU-7-11.65 PER
THE DETAILS SHOWN ON SHEET 6 FOR A PERIOD NOT TO EXCEED
14 CONSECUTIVE CALENDAR DAYS PER PHASE. SHOULD THE
CONTRACTOR FAIL TO MEET THE ABOVE REQUIREMENT A
DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2000
PER DAY THAT THE WORK ZONE REMAINS IN PLACE.

TRU-7-11.64 DECK EDGE REPLACEMENT WORK ZONE

THE FOLLOWING QUANTITES SHALL BE USED IN THE TRU-7-11.64
DECK EDGE REPLACEMENT WORK ZONE AS SHOWN ON SHEET 6
AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 622, PORTABLE BARRIER, 32", BRIDGE MOUNTED, (ANCHORED), 620 FT

ITEM 614, WORK ZONE IMPACT ATTENUATOR
(BIDIRECTIONAL), 4 EACH

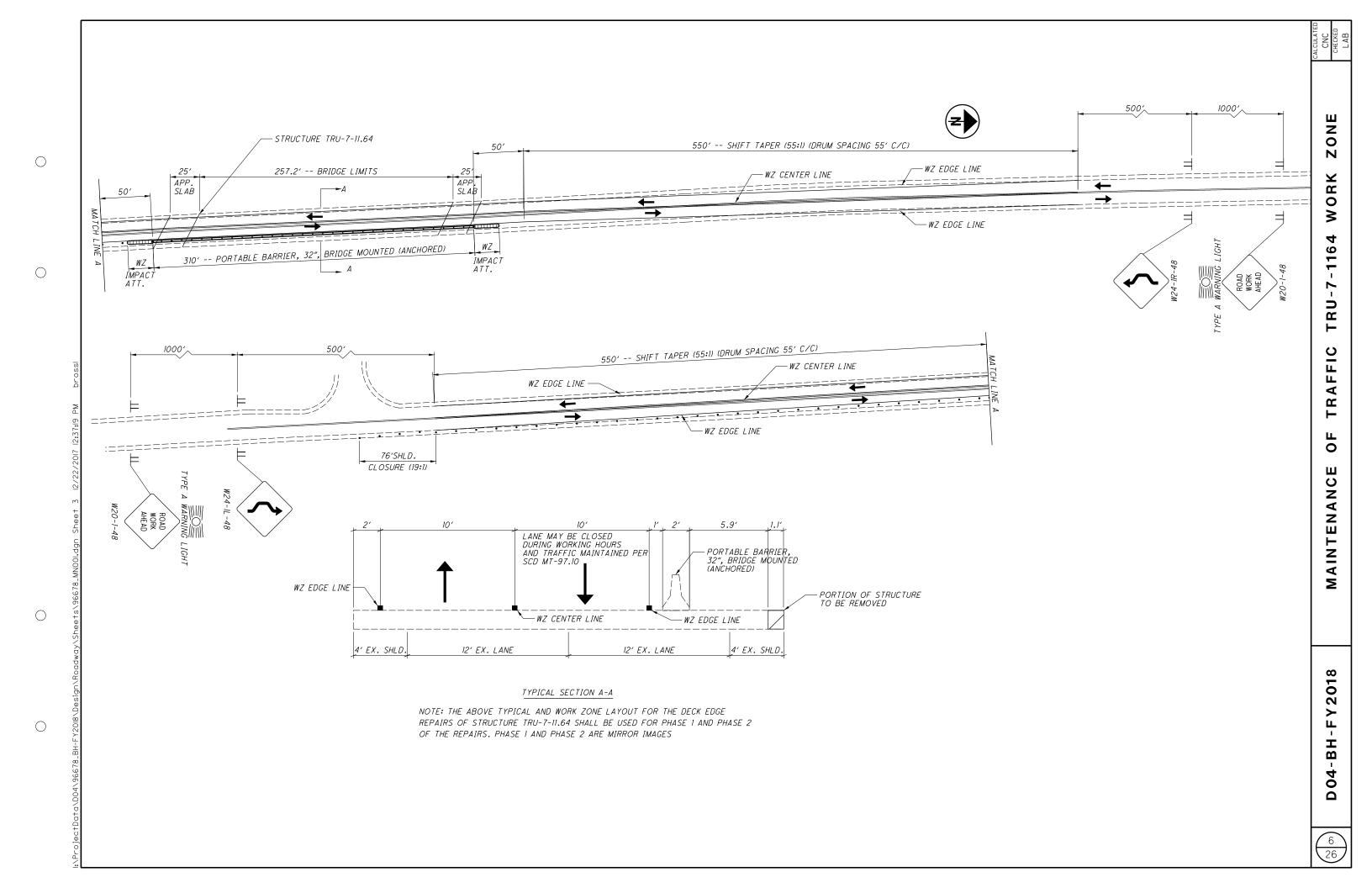
ITEM 614, BARRIER REFLECTORS, TYPE 1, 12 EACH

ITEM 614, OBJECT MARKERS, TWO-WAY, 12 EACH

ITEM 614, WORK ZONE CENTERLINE,

CLASS III, 642 PAINT, 0.57 MILE

ITEM 614, WORK ZONE EDGE LINE, CLASS III, 6",
642 PAINT, 1.14 MILE



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Bridge Name	SFN	Feature Intersected	Deck Sealing	Deck Patching (concrete)	Concrete Patching (non-deck)	Epoxy Sealing of Concrete	* Erosion/Slope Protection Repair	Drainage System Cleaned/Repaired	Clearing & Grubbing	New Structure Identification Signs	* Other Work
ATB-7-2755		Conneaut Creek	Х			X			Х		Χ
ATB-7-3039	0401021	Conneaut Creek	Х		MEDIAN, CURB	X		Х	X		
ATB-11-0856	0401129	Under Mill Road	Х								
ATB-20-0160	0401986	Wheeler Creek	Х			Χ			Х	X	
ATB-20-0325	0402087	Cowles Creek	Х			X			Х	X	
ATB-20-2160	0402265	Over Norfolk Southern RR	Х						X	X	
ATB-45-2339	0402656	East Branch Indian Creek	Х						Х	X	
ATB-84-1475	0403393	Over SR 46 & Sr 11	Х		SUBSTRUCTURE, PARAPETS	Χ		X	Х		X
ATB-84-2048	0403458	Over ATB-90-20.10	Х			X			Х	Х	
ATB-90-1582L	0404268	Ashtabula River	Х		PARAPETS	Χ			Х	X	
ATB-90-1583R	0404292	Ashtabula River	Х						Х	Х	
ATB-90-2173L		Conneaut Creek	Х	Х		Х			Х	Х	
ATB-90-2172R		Conneaut Creek	X	X	PARAPETS	Х			Х	Х	
ATB-90-2272L		Over South Ridge Road	Х						Х	X	
ATB-90-2272R		Over South Ridge Road	X						Х	X	
ATB-90-2385		Under Keffus Road	X						X	X	
ATB-90-2651		Under Dorman Road	X						X	X	
ATB-90-2724		Under Middle Road	X						X	X	
ATB-90-2771L		Over Furnace Road	X						X	X	
ATB-90-2771R		Over Furnace Road	X						X	X	
ATB-90-2838L		Over B & LE RR	X						X	X	
ATB-90-2840R		Over B & LE RR	X						X	X	
ATB-167-0234		Mill Creek	X		PARAPETS	X			X	X	X
ATB-167-0884		Branch Ashtabula River	X		17.10 11.21.0	^			^	^	
ATB-193-1137		Mill Creek	X				X		Х	X	
ATB-322-0528		Grand River	X				X			^	
ATB-534-0106		Phelps Creek	X	X	DECK EDGE	X	X		Х	X	X
POR-14-0620		Over Cuyahoga River	X		BEGIVE BOE				X	X	
POR-44-2180		Branch Cuyahoga River	X						X	X	
POR-88-1196		Eagle Creek	X		SUBSTRUCTURE	Х	Х		X	X	
TRU-5-1621		Mosquito Creek	X	X	SUBSTRUCTURE	X	Λ		X	X	
TRU-5-1917		Walnut Creek	X	X	SUBSTRUCTURE	X			X	X	
TRU-7-1164		Yankee Run	X		SUBSTRUCTURE	X			X	X	X
TRU-45-1691		Center Creek	X		COBOTROCTORE	X			X	X	
TRU-45-2010		Baughman Creek	X			X			X	X	
TRU-46-0985		Spring Run	X			^			X	X	
TRU-87-2056		Pymatuning Creek	X		SUBSTRUCTURE, DECK EDGE	X			X	X	
TRU-88-0900		Deacon Creek	X		GODOTINOCTORE, DEGREEDGE	^			X	X	
TRU-88-1328		Mosquito Creek Reservoir	X				X		^	^	
TRU-88-2332		Pymatuning Creek	X				^		V	X	
TRU-88-2332 TRU-534-0450					SUBSTRUCTURE DECK EDGE	~			X		
TRU-534-0450		West Branch Mahoning River	X	X	SUBSTRUCTURE, DECK EDGE	X	X		X	X	Х
1KU-534-0988	1807414	Eagle Creek	X	X		X			Χ	X	

* FOR PROPOSED WORK SUPPLEMENTARY NOTES SEE SHEET 2/18

PROPOSED WORK DESCRIPTION

DECK SEALING

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT.

DECK PATCHING (CONCRETE)

- REPAIR VISIBLY UNSOUND OR PREVIOUSLY PATCHED AREAS OF THE EXISTING DECK AND APPROACH SLAB.

CONCRETE PATCHING (NON-DECK)

- PATCH ALL UNSOUND AREAS AT THE LOCATIONS NOTED IN THE STRUCTURE PROPOSED WORK TABLE
- SEAL ALL REPAIRED AREAS WITH EPOXY URETHANE.

EPOXY SEALING OF CONCRETE

- REMOVE EXISTING SEALER IF PRESENT AND SEAL THE EXPOSED CONCRETE SURFACES WITH WITH EPOXY URETHANE CONCRETE SEALER. SEE SHEETS 18/18 FOR DETAILS.

ERROSION/SLOPE PROTECTION REPAIR

- REPAIR ERROSION AT THE LOCATION DESCRIBED IN THE SUPPLEMENTARY NOTES

DRAINAGE SYSTEM CLEANED/REPAIRED - CLEAN OUT SCUPPERS

CLEARING AND GRUBBING

-CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION.

OTHER WORK

-SEE SUPPLEMENTARY NOTES

PROPOSED WORK SUPPLEMENTARY NOTES

ATB-84-1475

- REMOVE ALL SPALLED AREAS OF THE DECK FLOOR AND SEAL WITH EPOXY URETHANE.

ATB-90-2172R

-ASPHALT PAVEMENT AT THE REAR APPROACH SLAB IS TO REMAIN.

ATR-167-0234

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-CHANNEL CLEANOUT AT THE FORWARD RIGHT OF THE STRUCTURE TO REMOVE FALLEN LOGS AND DEBRIS

ATR-193-1137

-REPAIR THE EROSION AT THE REAR LEFT AND REAR RIGHT WINGWALLS.

ATB-322-0528

-REPAIR THE TOP PORTION OF THE FORWARD AND REAR SLOPE PROTECTION NEAR THE FOOTERS.

ATB-534-0106

- -REPAIR THE FORWARD AND REAR SLOPE PROTECTION.
- -REPAIR DAMAGED RAILING ON THE RIGHT SIDE OF THE STRUCTURE. -DIAMOND GRINDING OF THE EXISTING CONCRETE WEARING
- -DECK GROOVING OF THE EXISTING CONCRETE WEARING SURFACE.

POR-88-1196

SURFACE.

-REPAIR THE FORWARD AND REAR SLOPE PROTECTION.

TRU-7-1164

- -REMOVE AND REPLACE THE LEFT AND RIGHT BRIDGE RAILING. -REMOVE AND REPLACE 14" OF THE LEFT AND RIGHT BRIDGE DECK FDGF.
- -INSTALL NEW DRIP STRIP
- -REFURBISH OUTER PIER BEARINGS

TRU-88-1328

-REPAIR EROSION AT THE FORWARD AND REAR SLOPE PROTECTION AND WINGWALLS

TRU-534-0450

- REMOVE ALL SPALLED AREAS OF THE DECK FLOOR AND SEAL WITH EPOXY URETHANE.

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

DBR-2-73 DATED/REVISED 7/19/2002

DS-1-92 DATED/REVISED 07/18/2003

EXJ-6-06 DATED/REVISED 1/18/2013

TST-1-99 DATED/REVISED 7/15/2016

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

843 DATED/REVISED 4/18/2003

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

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.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE ESTIMATED QUANTITIES FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201. CLEARING AND GRUBBING.

EROSION REPAIR

THIS WORK WILL CONSIST OF REPAIRING THE EROSION OR SLOPE PROTECTION AT THE LOCATIONS DETAILED IN THE PROPOSED WORK SUPPLEMENTARY NOTES FOR STRUCTURES ATB-193-1137, ATB-322-0528, ATB-534-0106, POR-88-1196, AND TRU-88-1328. REPAIR WORK WILL BE PAID FOR BY THE FOLLOWING ITEMS.

ATB-193-1137:

ITEM 203, BORROW 2 CY. ITEM 601, DUMPED ROCK FILL, TYPE C 2 CY

ATB-322-0528:

ITEM 203, BORROW 5 CY.

ITEM 601, DUMPED ROCK FILL, TYPE C 5 CY

ATR-534-0106:

ITEM 203. BORROW 5 CY.

ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION 10 CY.

POR-88-1196:

ITEM 601, CRUSHED AGGREGATE SLOPE PROTECTION 5 CY.

TRU-88-1328:

ITEM 203. BORROW 5 CY.

ITEM 601, DUMPED ROCK FILL, TYPE B 10 CY.

ITEM 202 - REMOVAL MISC.; CHANNEL CLEANOUT (ATB-167-0234)

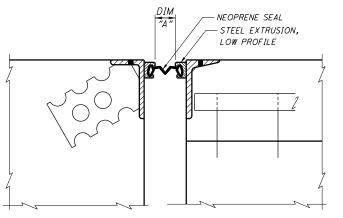
THIS WORK SHALL CONSIST OF REMOVING SEDIMENT BUILD-UP, VEGETATION. AND DEBRIS FROM THE EXISTING CHANNEL WITHIN RIGHT-OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR STRUCTURES ATB-167-0234. ANY TREES WITHIN THE CHANNEL OR BANK LIMITS SHALL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED RESTORE THE ORIGINAL CHANNEL PROFILE. EQUIPMENT IS NOT TO ENTER THE WATERWAY, BUT STAGED ON THE BANK OR BRIDGE. WHEN USING A BUCKET-TYPE EXCAVATOR. NO MORE THAN INCIDENTAL FALLBACK FROM THE BUCKET IS AUTHORIZED. NO BANK SHAPING, STREAM RELOCATION OR CHANNELIZATION IS AUTHORIZED WITHOUT A SECTION 404 & 401 PERMIT. WORK SHALL NOT CHANGE THE EXISTING CONTOURS OF THE STREAM BOTTOM AND BANK. AND ALL DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH APPROVAL OF THE ENGINEER. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT SHALL BE PAID FOR AT A UNIT PRICE BID FOR ITEM 202 REMOVAL MISC .: CHANNEL CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN

THIS ITEM WILL INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING SEALS FROM EDGE TO EDGE OF STRUCTURE ATB-7-2755 DECK. 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 MEASURE PRIOR TO ORDERING MATERIAL.

THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 516, ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRU-SIONS, AS PER PLAN, THIS PRICE WILL INCLUDE THE REMOVAL OF THE EXISTING SEAL, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO REPLACE THE SEAL.



DIMENSION A

TEMPERATURE, °F	ATB-7-2755
30°	2 1/2"
40°	2 3/8"
50°	2 1/8"
60°	2"
70°	1 7/8"
80°	1 3/4"
90°	1 1/2"

ITEM 516 - REFURBISHING BEARING DEVICES, AS PER PLAN

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (711.21). INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND RE-WELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60 DEGREES F. LUBRICATING SLIDING SURFACES. AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH BEARING DEVICES, AS PER PLAN.

ITEM 516. JACKING AND TEMPORARY SUPPORT OF SUPER-STRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CON-CRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATIS-FACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUB-MIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CON-TACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE. AS PER PLAN.

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.

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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 257, DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT (ATB-534-0106)

THIS WORK WILL CONSIST OF DIAMOND GRINDING THE DECK WEARING SURFACE TO REMOVE EXISTING TRANSVERSE DECK GROOVING. THE DIAMOND GRINDING SHALL BE PERFORMED TO THE DEPTH OF THE EXISTING GROOVING TO PRODUCE A SMOOTH DECK

ITEM 511, BRIDGE DECK GROOVING (ATB-534-0106)

THIS WORK WILL CONSIST OF GROOVING OF THE CONCRETE WEARING SURFACE TO PRODUCE A LONGITUDINAL CORDUROY-TYPE TEXTURE. THIS WORK SHALL BE PERFORMED AS PER CMS 511.17.

SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM DECK FLOOR OF STRUCTURE(S) 4TR-84-1475 ATB-534-0450

WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR. EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

SPECIAL - PATCHING CONCRETE STRUCTURE, MISC.:

SLABS. THIS WORK WILL BE PERFORMED IN ACCORDANCE WITH ITEM 519 - PATCHING CONCRETE STRUCTURES AND AS MODIFIED HEREIN.

AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR SPECIAL - PATCHING CONCRETE STRUCTURE, MISC.: CURB REPAIR AND WILL BE PAID FOR PER FOOT.

CORRECTING BRIDGE IDENTIFICATION SIGN NUMBERS:

SOME OF THE EXISTING BRIDGE NUMBER SIGNS HAVE INCORRECT BRIDGE NUMBERS ON THEM. THE FOLLOWING BRIDGE NUMBERS ARE THE CORRECT ONES AND WILL BE USED ON THE NEW BRIDGE IDENTIFICATIONS SIGNS:

ATB-20-0160 (SFN: 0401986) ATB-20-0325 (SFN: 0402087) ATB-20-2160 (SFN: 0402265) ATB-45-2339 (SFN: 0402656) ATB-84-2048 (SFN: 0403458) ATB-90-1582L (SFN: 0404268) ATB-90-1583R (SFN: 0404292) ATB-90-2173L (SFN: 0404411) ATB-90-2172R (SFN: 0404446) ATB-90-2272L (SFN: 0404470) ATB-90-2272R (SFN: 0404500) ATB-90-2385 (SFN: 0404535) ATB-90-2651 (SFN: 0404683) ATB-90-2724 (SFN: 0404713) ATB-90-2771L (SFN: 0404748) ATB-90-277IR (SFN: 0404772) ATB-90-2838L (SFN: 0404802) ATB-90-2840R (SFN: 0404837) ATB-167-0234 (SFN: 0404950) ATB-193-1137 (SFN: 0405477) ATB-534-0106 (SFN: 0406848) POR-14-0620 (SFN: 6700586) POR-44-2180 (SFN: 6701639) POR-88-1196 (SFN: 6703607) (SFN: 7801173) TRU-5-1621 TRU-5-1917 (SFN: 7801211) TRU-7-1164 (SFN: 7801564) TRU-45-1691 (SFN: 7802234) TRU-45-2010 (SFN: 7802285) TRU-46-0985 (SFN: 7802595) TRU-87-2056 (SFN: 7805586) TRU-88-0900 (SFN: 7805853) TRU-88-2332 (SFN: 7806035) TRU-534-0450 (SFN: 7807295) TRU-534-0988 (SFN: 7807414)

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 SIGNS FOR THE FOLLOWING STRUCTURES:

ATB-20-0160 (2 APPROACHES), ATB-20-0325 (2 APPROACHES), ATB-20-2160 (2 APPROACHES), ATB-45-2339 (2 APPROACHES), ATB-84-2048 (2 APPROACHES), ATB-90-1582L (1 APPROACH), ATB-90-1583R (1 APPROACH), ATB-90-2173L (1 APPROACH), ATB-90-2172R (1 APPROACH), ATB-90-2272L (1 APPROACH), ATB-90-2272R (1 APPROACH), ATB-90-2385 (2 APPROACHES), ATB-90-2651 (2 APPROACHES), ATB-90-2724 (2 APPROACHES), ATB-90-2771L (1 APPROACH), ATB-90-2771R (1 APPROACH), ATB-90-2838L (1 APPROACH), ATB-90-2840R (1 APPROACH), ATB-167-0234 (2 APPROACHES), ATB-193-1137 (2 APPROACHES), ATB-534-0106 (2 APPROACHES), POR-14-0620 (2 APPROACHES), POR-44-2180 (2 APPROACHES), POR-88-1196 (2 APPROACHES), TRU-5-1621 (2 APPROACHES), TRU-5-1917 (2 APPROACHES), TRU-7-1164 (2 APPROACHES), TRU-45-1691 (2 APPROACHES), TRU-45-2010 (2 APPROACHES), TRU-46-0985 (2 APPROACHES), TRU-87-2056 (2 APPROACHES), TRU-88-0900 (2 APPROACHES), TRU-88-2332 (2 APPROACHES), TRU-534-0450 (2 APPROACHES), TRU-534-0988 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

ITEM 630 - SIGN, FLAT SHEET, 730.20, I 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, 2-3 EACH

ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL. 2 EACH

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THIS ITEM WILL BE USED TO REPAIR THE DETERIORATED FACE OF THE CURB ON THE BRIDGE DECK AND/OR APPROACH

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT

PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND

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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.

TRANSVERSE DECK AND APPROACH SLAB GROOVES

CONSTRUCT THE NEW WIDENED PORTION OF THE BRIDGE DECK AND APPROACH SLABS WITH TRANSVERSE GROOVES TO MATCH THE EXISTING BRIDGE DECK AND APPROACH SLABS. THE GROOVES SHALL BE PLACED ACCORDING TO THE SAME REQUIREMENTS OF CMS 511.17, EXCEPT THE GROOVES SHALL BE TRANSVERSE TO MATCH THE EXISTING GROOVES, INSTEAD OF LONGITUDINAL AS DESCRIBED IN THE CMS.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF CONCRETE DECKS INCLUDING RAILINGS. DECK JOINTS AND OTHER APPURTENANCES FROM STEEL SUP-PORTING SYSTEMS (BEAMS, GIRDERS, CROSS FRAMES, ETC.). THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED IN-TO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LO-CATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2-INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DUR-ING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING 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 DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (PRESTRESSED BOX BEAM, I-BEAM, STEEL BEAM STEEL GIRDER, ETC), THE CON-TRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.

DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEM-BERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS 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 DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PER-FORMING REPAIR.

DECK REMOVALS - COMPOSITE DECK DESIGNS - STEEL SUPER-STRUCTURES: DUE TO THE PRESENCE OF WELDED STUDS TO THE EXISTING STRUCTURAL STEEL, SUBMIT A DETAILED PRO-CEDURE OF THE DECK REMOVAL TO THE ENGINEER AT LEAST 7 DAYS BEFORE CONSTRUCTION BEGINS. THE PROCEDURE SHALL INCLUDE ALL DETAILS, EQUIPMENT AND METHODS TO BE USED FOR REMOVAL OF THE CONCRETE OVER THE FLANGES AND AROUND THE STUDS. REPLACE OR REPAIR MAIN STEEL AND STUDS 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 DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PER-FORMING REPAIR.

DESIGN AGENCY	ODOT DISTRICT 4	PLANNING AND ENGINEERING
DATE	/4/17	E NUMBER 54

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	DESIGNED	DRAWN	REVIEWED	DATE
	BFR	BFR	RAS	12/4/17
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	MJA		780	7801564

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CALC: CHECKED:

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DATE: 11/17/2017 DATE: 12/1/2017

		BRIDGE	NO. / STR	RUCTURE	FILE NO.					
	ATB-7-2755 0400947 01/NFP/BR	ATB-7-3039 0401021 01/NFP/BR	ATB-11-0856 0401129 01/NFP/BR	ATB-20-0160 0401986 01/NFP/BR	ATB-20-0325 0402087 01/NFP/BR	ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
	LS	LS		LS	LS	201	11000		CLEARING AND GRUBBING	
	500	20		113	180	512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	2440	1320	668	303	399	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
	500	1320	555	113	180	512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
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	88					516	01300	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS	
		16				518	12500	EACH	SCUPPER, MISC.: CLEANOUT	2/18
		100				519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	3/18
		50				SPECIAL	51911720	FT	PATCHING CONCRETE STRUCTURE, MISC.: CURB REPAIR	3/18
				12	12	630	80100	SF	SIGN, FLAT SHEET	
				2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20	
				42	42	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	
					 					
					 					
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ESTIMATED QUANTITIES

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SRIONE NO / STRUCTURE FILE NO SPECIAL SHOPE SPECIAL SHOP												CALC: BFR CHECKED: MJS	DATE: 11/17/20 DATE: 12/1/20
Second S										EST	TIMATED		
Second S			BRIDGE	NO. / STF	RUCTURE	FILE NO.							
30 386 10 1187 1187 512 10100 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 2318 439 1464 1581 2432 2074 2383 2313 512 73500 SY TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN 386	ATB-20-2160 0402265 01/NFP/BR	ATB-45-2339 0402656 01/NFP/BR					ATB-90-2173L 0404411 01/NFP/BR	ATB-90-2172R 040446 01/NFP/BR	ITEM	EXTENSION	UNIT	DESCRIPTION	l l
30 386 10 1187 1187 512 10100 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 2318 439 1464 1581 2432 2074 2383 2313 512 73500 SY TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN 386													
2318 439 1464 1581 2432 2074 2383 2313 512 73500 SY TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	LS	LS				LS					6)/		
187 1187 1187 512 74000 SY REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES SUPPER, MISC.: CLEANOUT 2/18 2/18 150 50 100 519 11101 SF PATCHING CONCRETE STRUCTURE, AS PER PLAN 3/18	0040	400				0074							
12	2318	439	1464		2432	2074							
150				386			1187	1187	512	74000	51	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
150			12						518	12500	EACH	SCHEPER MISC : CLEANOLIT	2/18
SPECIAL SPECIAL SPECIAL SY PATCHING CONCRETE BRIDGE DECK - TYPE C SPECIAL SY STRUCTURES MISC.: CONCRETE SPALL REMOVAL SY SY STRUCTURES MISC.: CONCRETE SPALL REMOVAL SY SY SY SY SY SY SY S					50			100					
10			100		- 50		5						3/10
12 12 12 6 6 6 6 630 80100 SF SIGN, FLAT SHEET 2 2 2 1 1 1 1 630 80100 SF SIGN, FLAT SHEET, 730.20 42 42 42 21 21 21 21 21 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 3 3 3 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL			10				<u> </u>						3/18
2 2 1 1 1 1 630 80100 SF SIGN, FLAT SHEET, 730.20 42 42 42 21 21 21 21 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 3 3 3 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL			10						01 201/12	3333333		CITICOTOTICO INICO COTTOTICE DE TIEMOVIE	5, 10
2 2 1 1 1 1 630 80100 SF SIGN, FLAT SHEET, 730.20 42 42 42 21 21 21 21 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 3 3 3 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	12	12		12	6	6	6	6	630	80100	SF	SIGN. FLAT SHEET	
42 42 42 21 21 21 21 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 3 3 3 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL								-					
6 2 6 3 3 3 3 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	42	42			21	21	21	21					
6 2 6 3 3 3 3 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL Company	6	2		6		3			630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
Mathematical Content of Math	6	2		6	3	3	3	3	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
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									ES1	TIMATED	QUANTITIES	CHECKED.	IVIJA	DATE.	12/1/2017
		BRIDGE	NO. / STF	RUCTURE	FILE NO.						T				
ATB-90-2272L 0404470 01/NFP/BR	ATB-90-2272R 0404500 01/NFP/BR	ATB-90-2385 0404535 01/NFP/BR				ATB-90-2771R 0404772 01/NFP/BR	ATB-90-2838L 0404802 01/NFP/BR	ITEM	EXTENSION	UNIT	DESCRIPTION				SEE SHEET
LS	LS	LS	LS	LS	LS	10	LS	201	11000		CLEARING AND GRUBBING				
944	799	971	763	848	959	LS 567	1439	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN				
5 44	, 55	371		3,0	- 555	337	1.00	512	, 5555	J.	THE THEORY OF THE PROPERTY OF				
6	6	12	12	12	6	6	6	630	80100	SF	SIGN, FLAT SHEET				
1	1	2	2	2	1	1	1	630	80100	SF	SIGN, FLAT SHEET, 730.20				
21	21	42	42	42	21	21	21	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST				
3	3	2	2	2	3	3	3	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL				
3	3	2	2	2	3	3	3	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL				
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		BDIDGE	NO / CT	RUCTURE							Towns and the second se		
ATB-90-2840R 0404837 01/NFP/BR	ATB-167-0234 0404950 01/NFP/BR		ATB-193-1137 0405477 01/NFP/BR	ATB-322-0528 0406244 01/NFP/BR		POR-14-0620 6700586 01/NFP/BR	POR-44-2180 6701639 01/NFP/BR	ITEM	EXTENSION	UNIT	DESCRIPTION		SEE SHEET
1.0	1.0		10		1.0	10	10	201	11000		CLEADING AND CDUDDING		
LS	LS LS		LS		LS	LS	LS	201 202	11000 98000		CLEARING AND GRUBBING REMOVAL MISC.: CHANNEL CLEANOUT		
-	LS		2	5	5			202	40000	CY	BORROW		
				 	632			257	10000	SY	DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT		
					632			SPECIAL	51160000	SY	BRIDGE DECK GROOVING		3/18
	130				10			512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		0/10
1216	693	474	345	981	632	998	523	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN		
1210			0.10		002	000	020	012	70000	01	THE ATTENDED BEGINS WITH SHOWN THE BEALDING		
	120							512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		
	120				50			517	75500	FT	BRIDGE RAILING REBUILT		
	50				50			519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		3/18
					7			519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C		3, 10
					10			601	20000	SY	CRUSHED AGGREGATE SLOPE PROTECTION		
			2	5	10			601	27000	CY	DUMPED ROCK FILL, TYPE C		
			_						2.555	<u> </u>			
6	12		12		12	12	12	630	80100	SF	SIGN, FLAT SHEET		
1	2		2		2	2	2	630	80100	SF	SIGN, FLAT SHEET, 730.20		
21	42		42		42	42	42	630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST		
3	2		2		2	2	2	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
3	2		2		2	2	2	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
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	CALC:	BFR	DATE: 11/17/2017
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ESTIMATED QUANTITIES			

									ES	TIMATED	QUANTITIES MJA DAT	E: 12/1/2017
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POR-88-1196 6703607 01/NFP/BR	TRU-5-1621 7801173 01/NFP/BR	TRU-5-1917 7801211 01/NFP/BR	TRU-7-1164 7801564 01/NFP/BR	TRU-45-1691 7802234 01/NFP/BR		TRU-46-0985 7802595 01/NFP/BR	TRU-87-2056 7805586 01/NFP/BR	ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
LS	LS	LS	LS	LS	LS	LS	LS	201	11000		CLEARING AND GRUBBING	
			150					202	38000	FT	GUARDRAIL REMOVED	
			LS					202	11203		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	4/18
			4291					509	10000	LB	EPOXY COATED REINFORCING STEEL	
			408					510	10000	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
			38					511	21520	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
15	20	20	150		120		15	512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
401	781	379	1093	707	842	545	436	512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
					120			512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
			112					512	10300	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
			6					516	45305	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	2/18
			LS					516	47001		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	2/18
			510					517	70000	FT	RAILING (TWIN STEEL TUBE)	
400	450	450	621				400	SPECIAL	51822300	FT	STEEL DRIP STRIP	4/18
100	150	150	300			-	100	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	3/18
	10	10						519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
5								601	20000	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
									25222	=	LICE PRINCIPLE TERMINAL ASSESSMENT TO THE ASSESSMENT OF THE ASSESS	
			4					606	35002	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			50					606	15050	FT	GUARDRAIL, TYPE MGS	
40	10	10	10	10	40	10	10	620	00400	65	CION ELAT CUEET	
12	12	12	12	12	12	12	12	630 630	80100	SF SF	SIGN, FLAT SHEET SIGN, FLAT SHEET, 730.20	
42	42	42	42	42	42	42	42	630	80100 02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
2	6	2	6	2	2	6	6	630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
2	6	2	6	2	2	6	6	630	86002	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	0		°	2	2	°	0	630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	1	-		1		-						
	+	1	-	+		1						
	-	-		-		-						
	1	-	-	+		+			-			
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BRIDGE NO. / STRUCTURE FILE NO.											-	CALC: CHECKED:	BFR MJA		11/17/2017 12/1/2017
SEE SEE									EST	IMATED	QUANTITIES	· · · · ·	·		
LS LS LS LS S 201 11000 CLEARING AND GRUBBING 5 80 170 512 10100 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 376 990 1587 1214 1019 512 73500 SY TREATING CONCRETE BRIGGE DECKS WITH GRAVITY FED RESIN 170 512 74000 SY REMOVAL OF EXSTING COATINGS FROM CONCRETE SURFACES 200 5 519 11101 SF PATCHING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN 170 55 59 11101 SF PATCHING CONCRETE BRIDGE DECK - TYPE C 150 SPECIAL 53000800 SY STRUCTURES MISC: CONCRETE SPALL REMOVAL 3/18 10 SPECIAL 50000800 SY STRUCTURES MISC: CONCRETE SPALL REMOVAL 3/18 10 SPECIAL 50000800 SF SIGN, FLAT SHEET, 730.20 12 12 12 12 12 6630 80100 SF SIGN, FLAT SHEET, 730.20 14 14 42 42 42 42 6630 80100 SF SIGN, FLAT SHEET, 730.20 15 GROUND MOUNTED SUPPORT NO. 2 POST 16 2 6 6 6 6 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		I	BRIDGE	NO. / STF	RUCTURE I	FILE NO.									
5	TRU-88-0900 7805853 01/NFP/BR	TRU-88-1328 7805918 01/NFP/BR	TRU-88-2332 7806035 01/NFP/BR	TRU-534-0450 7807295 01/NFP/BR	TRU-534-0988 7807414 01/NFP/BR			ITEM	EXTENSION	UNIT	DESCRIPTION				
5	1.0		10	10	10			201	11000		CLEADING AND COLIRRING				
80 170 512 10100 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	LS	5	LS	LO	LO					CV				+	
376 990 1587 1214 1019 512 73500 SY TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN 170 512 74000 SY REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		5		QΛ	170										
170	376	900	1507												
200 519 11101 SF PATCHING CONCRETE STRUCTURE, AS PER PLAN 3/18 5	3/6	990	1987	1214											
5 519 12304 SY PATCHING CONCRETE BRIDGE DECK - TYPE C					1/0			312	/4000)।	NEIVIOVAL OF ENSTING CONTINGS FROM CONCRETE SURFACES				
5 519 12304 SY PATCHING CONCRETE BRIDGE DECK - TYPE C				200				510	11101	QE.	DATCHING CONCRETE STRUCTURE AS DEP DUAN				3/10
SPECIAL 53000800 SY STRUCTURES MISC.: CONCRETE SPALL REMOVAL 3/18				200	5										J/ 10
10				50	, J										2/10
12 12 12 12 12 630 80100 SF SIGN, FLAT SHEET 2 2 2 2 630 80100 SF SIGN, FLAT SHEET, 730.20 42 42 42 42 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 6 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL 6 2 6 6 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		10		50										-	J/ 10
2 2 2 2 80100 SF SIGN, FLAT SHEET, 730.20 42 42 42 42 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 6 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL 6 2 6 6 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		10						001	20000	U)	DUNIFED ROOK FILL, ITFE D				
2 2 2 2 80100 SF SIGN, FLAT SHEET, 730.20 42 42 42 42 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 6 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL 6 2 6 6 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	12		12	12	12			630	80100	QE.	SIGN FLAT SHEET			+	
42 42 42 42 630 02100 FT GROUND MOUNTED SUPPORT, NO. 2 POST 6 2 6 6 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL 6 2 6 6 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL						-								-	
6 2 6 6 630 84900 EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL 6 2 6 6 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL															
6 2 6 6 6 630 86002 EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL															
														-	
50 843 50000 SF PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	- 0			0	0			030	00002	EAGH	REMOVAL OF GROUND MOUNTED FOST SUPFORT AND DISPOSAL				
				50				0/13	50000	SE.	DATCHING CONCRETE STRUCTURES WITH TROWELARLE MORTAR				
				30				043	30000	31	FATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR				
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l .					BRIDGE DECK						APP	ROACH SLABS		
				512				1			512	1		S
BRIDGE NUMBER	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			E DESIGN AGENCY ODOT DISTRICT 4 WBER PLANNING AND ENGINEERING
	FT	FT	SQ YD	SY			FT	FT	SQ YD		SY			DATE 12/4/17 TLE NUMBER
ATB-7-2755	459.00	44.00	2244.00	2244.00			20.00	44.00	97.78	REAR	97.78			D JRE F
							20.00	44.00	97.78	FWD	97.78			EVIEWE RAS
ATB-7-3039	212.00	56.00	1319.11	1319.11			25.00	56.00	155.56	REAR			*ASPHALT SURFACE APPROACH S	
							25.00	56.00	155.56	FWD			*ASPHALT SURFACE APPROACH S	DRAWN BFR REVISEC
ATB-11-0856	197.00	30.50	667.61	667.61			25.00	30.50	84.72	REAR			*ASPHALT SURFACE APPROACH S	AB
							25.00	30.50	84.72	FWD			*ASPHALT SURFACE APPROACH S	DESIGNED BFR CHECKED
ATB-20-0160	36.50	41.00	166.28	166.28			15.00 15.00	41.00 41.00	68.33 68.33	REAR FWD	68.33 68.33			
۵							15.00	41.00	06.33	FVVD	08.33			, u
Σ Σ														1534
														. SF.
														S322
527														3, 03
77/3														SR19.
- +			TOTALS	4397					٠.	TOTALS	333			57, 5
D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1	1	BRIDGE DECK				1			ROACH SLABS		LS SR16
- Sbuui.agn	LIMITS)	I		— 512			(S)		eg.	AR)	BRIDGE Y FED			RE DETAI
BRIDGE NUMBER	LENGTH (BRIDGE	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE I DECKS WITH GRAVITY RESIN			LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAI AREA	APPROACH (FORWARD / REA	TREATING CONCRETE I DECKS WITH GRAVITY RESIN			STRUCTUI 877, SR11, US20, SR45, S
	그 LENGTH (BRIDGE	H BRIDGE WIDT	DECK AREA	TREATING CONCRETE S DECKS WITH GRAVIT RESIN			LENGTH (APPROACH SLAB	APPROACH SLAE WIDTH	S APPROACH SLA C AREA	APPROACH (FORWARD / REA	TREATING CONCRETE S DECKS WITH GRAVIT RESIN			STRUCTU
		BRIDGE	DECK				FT 20.00	APPROACH SLA WIDTH	SQ YD 88.89	APPROACH (FORWARD / RE	88.89			STRUCTU
ND04000C.Shee+4s	FT	H BRIDGE	DECK	SY			FT	APPROACH SLA WIDTH	SQ YD	APPROACH (FORWARD / RE	SY			STRUCTU SHTABULA: SR7, SR11, US20, SR45, S
ND04000C.Shee+4s	FT	H BRIDGE	DECK	SY			FT 20.00 20.00 30.00	40.00 40.00 52.00	88.89 88.89 173.33	APPROACH (FORWARD / RE	88.89 88.89 173.33			STRUCTU ASHTABULA: SR7, SR11, US20, SR45, S
NUMBER NUMBER ATB-20-0325 ATB-20-2160	FT 49.76	FT BRIDGE	SQ YD 221.16	221.16			FT 20.00 20.00	APPROACH SLA MIDTH	SQ YD 88.89 88.89	APPROACH (FORWARD / RE (FORWAR	88.89 88.89 173.33 173.33			STRUCTURE DETAILS ASHTABULA: SR7, SR11, US20, SR45, SR84, IR90, SR167, SR193, US322, SR534.
NUMBER NUMBER ATB-20-0325	FT 49.76	FT BRIDGE	SQ YD 221.16	221.16			20.00 20.00 20.00 30.00 30.00	FT 40.00 40.00 52.00 52.00 40.00	88.89 88.89 173.33 173.33	APPROACH (FORWARD / RE EAR EAR EAR EAR EAR EAR EAR EAR EAR	88.89 88.89 173.33 173.33			8
ATB-20-2160 ATB-45-2339	FT 49.76 341.19	FT 40.00 52.00	SQ YD 221.16 1971.32 304.71	221.16 1971.32			30.00 30.00 30.00 15.00	FT 40.00 40.00 52.00 40.00 40.00	88.89 88.89 173.33 173.33 66.67 66.67	REAR FWD (FORWARD / RE FWD	88.89 88.89 173.33 173.33 66.67 66.67			8
NUMBER NUMBER ATB-20-0325 ATB-20-2160	FT 49.76 341.19	FT 40.00	SQ YD 221.16	221.16 1971.32			30.00 30.00 30.00 15.00 25.00	FT 40.00 40.00 52.00 40.00 40.00 40.00 33.33	88.89 88.89 173.33 173.33 66.67 66.67	REAR FWD (FORWARD / RE FAR FAR FWD	88.89 88.89 173.33 173.33 66.67 66.67			8
ATB-20-2160 ATB-45-2339	FT 49.76 341.19 68.56	FT 40.00 52.00	SQ YD 221.16 1971.32 304.71	221.16 1971.32 304.71			30.00 30.00 30.00 15.00	FT 40.00 40.00 52.00 40.00 40.00	88.89 88.89 173.33 173.33 66.67 66.67	REAR FWD (FORWARD / RE FWD	88.89 88.89 173.33 173.33 66.67 66.67			8
ATB-20-0325 ATB-20-0325 ATB-45-2339 ATB-84-1475	FT 49.76 341.19 68.56	FT 40.00 52.00 40.00	SQ YD 221.16 1971.32 304.71	221.16 1971.32 304.71			20.00 20.00 20.00 30.00 30.00 15.00 25.00 25.00	FT 40.00 40.00 52.00 40.00 40.00 33.33 33.33 33.33 36.00	88.89 88.89 173.33 173.33 66.67 66.67 92.58 92.58	REAR FWD	88.89 88.89 173.33 173.33 173.33 66.67 66.67 92.58 92.58			
ATB-20-0325 ATB-20-0325 ATB-20-2160 ATB-45-2339 ATB-84-1475 ATB-84-2048	FT 49.76 341.19 68.56 345.21 345.09	FT 40.00 52.00 40.00 33.33	SQ YD 221.16 1971.32 304.71 1278.43	304.71 1278.43			20.00 20.00 30.00 30.00 15.00 25.00 25.00 25.00 25.00	FT 40.00 40.00 52.00 40.00 40.00 33.33 33.33 36.00 36.00 52.00	88.89 88.89 173.33 173.33 173.33 66.67 66.67 92.58 92.58 100.00 100.00	REAR FWD	88.89 88.89 173.33 173.33 173.33 66.67 66.67 92.58 92.58 100.00 100.00			D04-BH-FY2018

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					BRIDGE DECK				APPROACH :	SLABS					
0	BRIDGE NUMBER	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN 715	LENGTH (APPROACH SLABS) APPROACH SLAB	WIDTH	APPROACH SLAB AREA APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN					A CONTRACT OF THE CONTRACT OF	17 DESIGN AGENCY ODOT DISTRICT 4 BER PLANNING AND ENGINEERING
		FT	FT	SQ YD	SY	FT I	FT	SQYD	SY					L C	DATE 2/4/ E NUM
	ATB-90-2173L	448.61	43.00	2143.36	2143.36		13.00 13.00	119.44 REAR 119.44 FWD	119.44 119.44					G Line	REVIEWED DATE RAS 12/4/ STRUCTURE FILE NUM
	ATB-90-2172R	448.61	43.00	2143.36	2143.36		3.00	119.44 REAR 119.44 FWD	50.00 119.44	*MAJOF	I RITY ASPHA	LT SURFAC	E APPROACE	H SLAB	
O =	ATB-90-2272L	113.34	52.00	654.85	654.85		52.00 52.00	144.44 REAR 144.44 FWD	144.44 144.44						DRAWN BFR D REVISED
bross	ATB-90-2272R	113.34	44.00	554.11	554.11		4.00	122.22 REAR 122.22 FWD	122.22 122.22					i d	BFR CHECKET
18:26 PM	ATB-90-2385	363.82	24.00	970.19	970.19		24.00	66.67 REAR 66.67 FWD					PROACH SLA PROACH SLA		US322, SR534.
72017 12:3	ATB-90-2651	285.84	24.00	762.24	762.24		24.00	66.67 REAR 66.67 FWD					PROACH SLA PROACH SLA		US322, 9
2/22/	ATB-90-2724	317.68	24.00	847.15	847.15		24.00	66.67 REAR					PROACH SLA		', SR193, U SR46 SR
~				TOTALS	8076	25.00 24	24.00	66.67 FWD TOTALS	942		SPHALT SC	RFACE APP	PROACH SLA	ND .	, SR
661		1			BRIDGE DECK				APPROACHS	SLABS					N 167
00_0000C\Sheets\D04_SD001.dgn Sheet	BRIDGE NUMBER	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	DECKS WITH GRAVITY FED RESIN RESIN BRIDGE DECK	LENGTH (APPROACH SLABS)	ו נ	APPROACH SLAB AREA APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED 715 RESIN ADDRESS NAME AND	SLABS					:E DETAILS 184, IR90, SR167 B5, SR7, SR45
O		(BRIDGE LIMIT	DGE WIDT	S DECK AREA	512	LENGTH (APPROACH SLA APPROACH SLA	WIDTH	APPROACH SLAB AREA APPROACH APPROACH (FORWARD / REAR)	REATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SLABS					STRUCTURE DETAILS 187, SR11, US20, SR45, SR84, 1R90, SR167 SR44, SR88, TRUMBULL: SR5, SR7, SR45.
Class		LENGTH (BRIDGE LIMIT	BRIDGE WIDT	DECK	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN RESIN	LENGTH (APPROACH SLA APPROACH S	WIDTH	APPROACH SL AREA APPROACH (FORWARD / RE.	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SLABS					STRUCTURE DETAILS SR7, SR11, US20, SR45, SR84, IR90, SR167 SP44 SP8 TPIMARIII SP5 SP7 SP45
() () () () () () () () () () () () () (NUMBER	그 LENGTH (BRIDGE LIMIT	H BRIDGE WIDT	SQYD	TREATING CONCRETE BRIDGE AS DECKS WITH GRAVITY FED RESIN RES	FT CAPPROACH SLA	HLQIM FT	APPROACH SL AREA APPROACH (FORWARD / RE.	TREATING CONCRETE BRIDGE S DECKS WITH GRAVITY FED RESIN RESIN 712	*A			PROACH SLA PROACH SLA	λB	STRUCTURE DETAILS
3\Design\Structures\D	NUMBER ATB-90-2771L	FT T15.82	FT BRIDGE WIDT	SQ YD 669.18	TREATING CONCRETE BRIDGE TREATING CONCRETE BRIDGE SA 669.18	FT CAPPROACH SIA CAPPROACH	FT 52.00 52.00 14.00	SQ YD 144.44 REAR 144.44 FWD 122.22 REAR	TREATING CONCRETE BRIDGE S DECKS WITH GRAVITY FED RESIN RESIN 712	*A				λB	STRUCTURE DETAILS ASHTABULA: SR7, SR11, US20, SR45, SR84, IR90, SR167 PORTAGE: SR14 SR44 SR88 TRIMBILL: SR5 SR7 SR45
.28H-FY2018\Design\Structures\D04000_0000C\Sheets\D04_SD001.dgn Sheet	ATB-90-2771L ATB-90-2771R	FT FT T15.82	FT 52.00	SQ YD 669.18	SY 669.18 512 1	FT USE OF SET OF	FT 52.00 52.00 14.00 14.00 152.00	SQ YD 144.44 REAR 144.44 FWD 122.22 REAR 122.22 FWD 144.44 REAR	TREATING CONCRETE BRIDGE TREATING CONCRETE BRIDGE AS DECKS WITH GRAVITY FED AS A STATE BRIDGE AS A STA	*A				λB	STRUCTURE DETAILS FY2018 ASHTABULA: SR7, SR11, US20, SR45, SR84, IR90, SR167 96678 PORTAGE: SR14 SR44 SR88 TRIMBIII: SR5 SR7 SR45
3\Design\Structures\D	ATB-90-2771L ATB-90-2771R ATB-90-2838L	FT FT 115.82 115.82 198.93	FT 52.00	SQ YD 669.18 566.23	512 BY BY CONOR A BY SY 669.18 566.23	FT USE OF SECOND	FT 52.00 52.00 14.00 152.00 15	SQ YD 144.44 REAR 144.44 FWD 122.22 REAR 122.22 FWD 144.44 FWD 122.22 REAR 122.22 FWD	SY 144.44 144.44 144.44 144.44 144.44 144.44	*A				λB	STRUCTURE DETAILS FY2018 ASHTABULA: SR7, SR11, US20, SR45, SR84, IR90, SR167 96678 PORTAGE: SR14. SR44, SR88. TRUMBULI: SR5, SR7, SR45.
3\Design\Structures\D	ATB-90-2771L ATB-90-2771R ATB-90-2838L ATB-90-2840R	FT 115.82 115.82 198.93 198.68	FT 52.00 44.00 44.00	SQ YD 669.18 566.23 1149.37	512 B Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	FT	FT 52.00 52.00 14.00 14.00 14.00 14.00 14.00 18.00	SQ YD 144.44 REAR 144.44 FWD 122.22 REAR 122.22 FWD 144.44 FWD 122.22 FWD 144.44 FWD 63.33 REAR	SY 144.44 144.44 144.44 144.44 144.44 122.22 122.22 63.33	*A				AB AB	DO4-BH-FY2018 SHTABULA: SR7, SR11, US20, SR45, SR84, IR90, SR167 PID No. 96678 PORTAGE: SR14, SR88, TRIMBULE: SR7, SR45.
3\Design\Structures\D	ATB-90-2771L ATB-90-2771R ATB-90-2838L ATB-90-2840R ATB-167-0234	FT 115.82 198.93 198.68 134.00	FT 52.00 44.00 38.00	SQ YD 669.18 566.23 1149.37	512	FT	FT 52.00 52.00 14.00 14.00 14.00 18.	SQ YD 144.44 REAR 144.44 FWD 122.22 REAR 122.22 FWD 144.44 FWD 122.22 FWD 144.44 FWD 63.33 REAR 63.33 FWD 78.51 REAR	SY 144.44 144.44 144.44 144.44 144.44 122.22 122.22 63.33 63.33 78.51	*A				AB AB	DO4-BH-FY2018 ASHTABULA: SR7, SR11, US20, SR45, SR84, IR90, SR167 PID No. 96678 PORTAGE: SR14, SR84, SR88, TRUMBUL: SR5, SR7, SR45.

	I				BRIDGE DECK							APPROACH S	LABS		
				512								512			
BRIDGE NUMBER	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN				LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			DESIGN AGENCY ODOT DISTRICT 4
	FT	FT	SQ YD	SY				FT	FT	SQ YD	 	SY			DATE DATE 12/4/17 FILE NUMBER
ATB-322-0528	170.52	40.00	757.87	757.87				25.00	40.00	111.11	REAR	111.11			121
A1B-322-0326	170.32	40.00	737.87	757.67				25.00	40.00	111.11	FWD	111.11			REVIEWED RAS STRUCTUR
ATB-534-0106	112.07	40.00	498.09	498.09				25.00 25.00	24.00	66.67 66.67	REAR FWD	66.67 66.67			
	12122														DRAWN BFR REVISEC
POR-14-0620	164.06	44.00	802.07	802.07		+ +		20.00	44.00 44.00	97.78 97.78	REAR FWD	97.78 97.78			
S DOD 44 0400	00.00	40.00	200 22	200.22											DESIGNET BFR CHECKED
POR-44-2180	62.00	42.00	289.33	289.33				25.00 25.00	42.00 42.00	116.67 116.67	REAR FWD	116.67 116.67			
≥ DOD 00 4400	00.00	00.00	207.47	207.47					00.00		DEAD	40.07			
POR-88-1196	98.83	28.00	307.47	307.47				15.00 15.00	28.00	46.67 46.67	REAR FWD	46.67 46.67			R534
75.38 TDU 5.4004	170.00	22.24	004.70	204.70							DEAD				Z, SI
TRU-5-1621	173.96	32.84	634.76	634.76				20.00	32.84 32.84	72.98 72.98	REAR FWD	72.98 72.98			
78 78 78 78 78 78 78 78 78 78 78 78 78 7	35.18	40.00	156.36	156.36				25.00	40.00	111.11	REAR	111.11			J. (2
2 180-5-1917	33.16	40.00	130.30	130.30				25.00	40.00	111.11	FWD	111.11			
+ 1			TOTALS	3446							TOTALS	1246			167,
Shee		I		512	BRIDGE DECK		1		T		1	APPROACH S	LABS		ILS SR
000_00000C\Sheets\D04_SD001.dgn BABMIN BABMIN	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN				LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			STRUCTURE DETAILS SR7, SR11, US20, SR45, SR84, IR90, SR167, SR193, US322, SR534.
,D04	FT	FT	SQ YD	SY				FT	FT	SQ YD		SY			— SF
ျှိ TRU-7-1164	257.20	32.00	914.49	914.49				25.00	32.00	88.89	REAR	88.89			BUL
7 + 97								25.00	32.00	88.89	FWD	88.89			SHTA
TRU-45-1691	94.49	44.00	461.95	461.95				25.00 25.00	44.00 44.00	122.22 122.22	REAR FWD	122.22 122.22			ASHTABULA:
.ក្ក ២ TRU-45-2010	132.04	44.00	645.53	645.53		+ +		20.00	44.00	97.78	REAR	97.78			<u>∞</u>
08/0								20.00	44.00	97.78	FWD	97.78			2018
780-46-0985	61.32	44.00	299.79	299.79				25.00 25.00	44.00 44.00	122.22 122.22	REAR FWD	122.22 122.22			─
TRU-87-2056	140.00	28.00	435.56	435.56				12.00 12.00	28.00 28.00	37.33 37.33	REAR FWD			*ASPHALT SURFACE APPROACH SLAB *ASPHALT SURFACE APPROACH SLAB	D04-BH
TRU-88-0900	66.60	40.00	296.00	296.00				15.00 15.00	24.00	40.00 40.00	REAR FWD	40.00 40.00			13/1
) 															
<u>∞</u> TRU-88-1328	212.00	34.00	800.89	800.89				25.00 25.00	34.00 34.00	94.44 94.44	REAR FWD	94.44 94.44			21 26

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					BRIDGE	DECK		I					APPROACI	H SLABS		
BRIDGE NUMBER	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN					LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			
	FT	FT	SQ YD	SY					FT	FT	SQ YD		SY			
TRU-88-2332	274.57	44.00	1342.34	1342.34					25.00 25.00	44.00 44.00	122.22 122.22	REAR FWD	122.22 122.22			
TRU-534-0450	160.00	52.00	924.44	924.44					25.00	52.00	144.44		144.44			
	100.00	02.00		02					25.00	52.00	144.44	FWD	144.44			
TRU-534-0988	173.50	41.00	790.39	790.39					25.00 25.00	41.00 41.00	113.89 113.89	REAR FWD	113.89 113.89			
			TOTALS	3058							7	OTALS	762			

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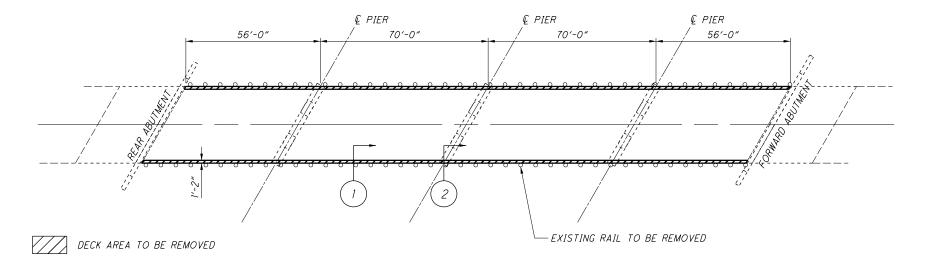
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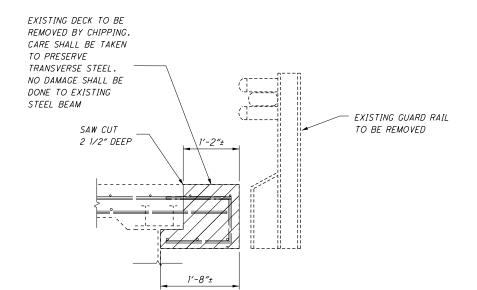
DESIGN AGENCY

ODOT --- DISTRICT 4

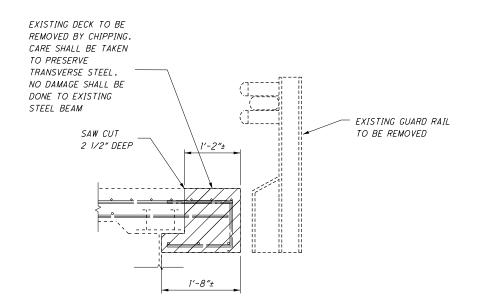
PLANNING AND ENGINEERING



EXISTING PARTIAL SECTION AT MIDSPAN AND ABUTMENTS



EXISTING PARTIAL SECTION AT PIER



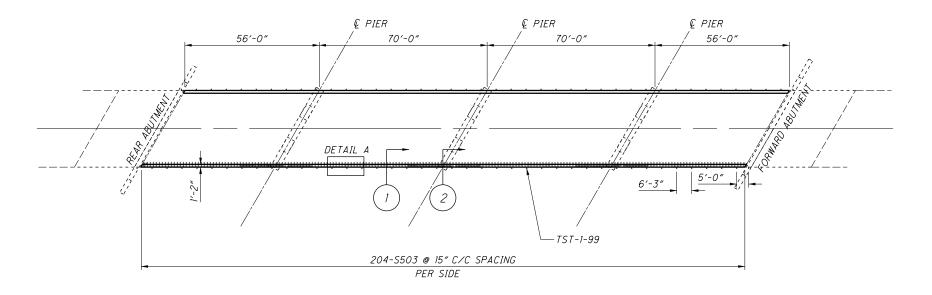
DO4-BH-FY2018 PID No. 96678

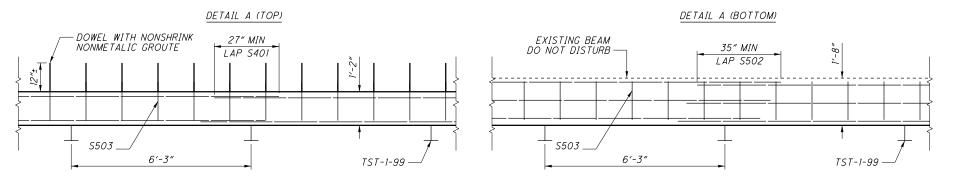
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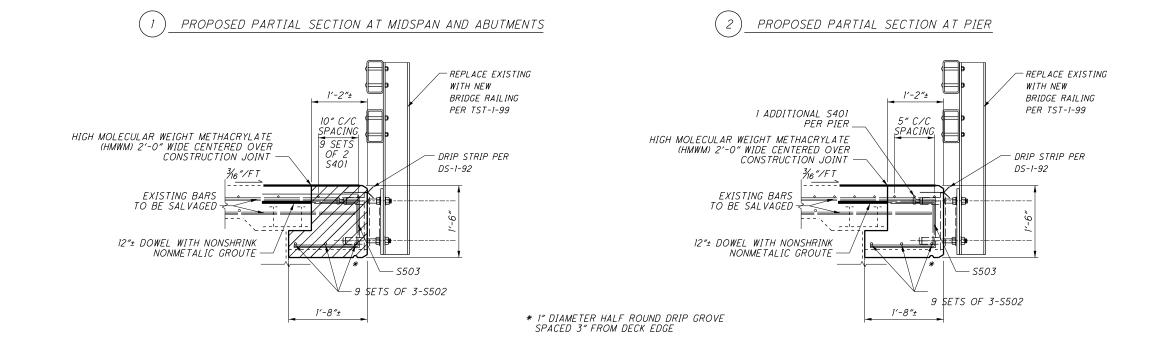
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STRUCTURE DETAII BRIDGE NO: TRU-7-116

DESIGN AGENCY
ODOT --- DISTRICT 4
PLANNING AND ENGINEERING

DO4-BH-FY2018 PID No. 96678

16 / 18

S401			42	42	30'-3"
S502			54	54	30'-3"
S503			408	408	4'-1"
	SUPE	RSTRUCT	JRE SUB-T	OTAL	
	А	BUTMENT	SUB-TOTA	.L	
		GRAND	TOTAL		
	THREE DIO	SIZE NUME GITS ARE FOR EXAM	USED, THE	FIRST TW 1 IS A NO.	/O DIGITS 6 BAR. B

NUMBER

SUPER TOTAL

REAR FWD ABUT ABUT

MARK

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THE BAR	SIZE NUME	BER IS SPI	ECIFIED O	N THE PLA	NS IN THE	BAR MAR	K COLUMN	. THE FIR	ST DIGIT W	/HERE
THREE DI	GITS ARE	USED, THE	FIRST TW	O DIGITS	WHERE FO	DUR ARE U	JSED, INDIC	CATES THE	E BAR SIZE	Ξ
NUMBER.	FOR EXAM	MPLE, P60	1 IS A NO.	6 BAR. BA	AR DIMENS	SIONS SHO	WN ARE C	OUT TOOU	T UNLESS	
OTHERWI	SE INDICA	TED. R INI	DICATES IN	ISIDE RAD	IUS, UNLE	SS OTHER	RWISE NOT	ED. "STD.	" WRITTEN	I IN
PLACE OF	A DIMEN	SION INDIC	ATES A S	TANDARD	BEND AT 1	THE END O	F THE BAF	₹.		

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4291

WEIGHT

(LBS)

849

1704

1738

4291

TYPE

STR

STR

2

2'-0"

LENGTH

DIMENSIONS

С

1'-4"

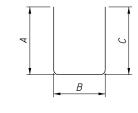
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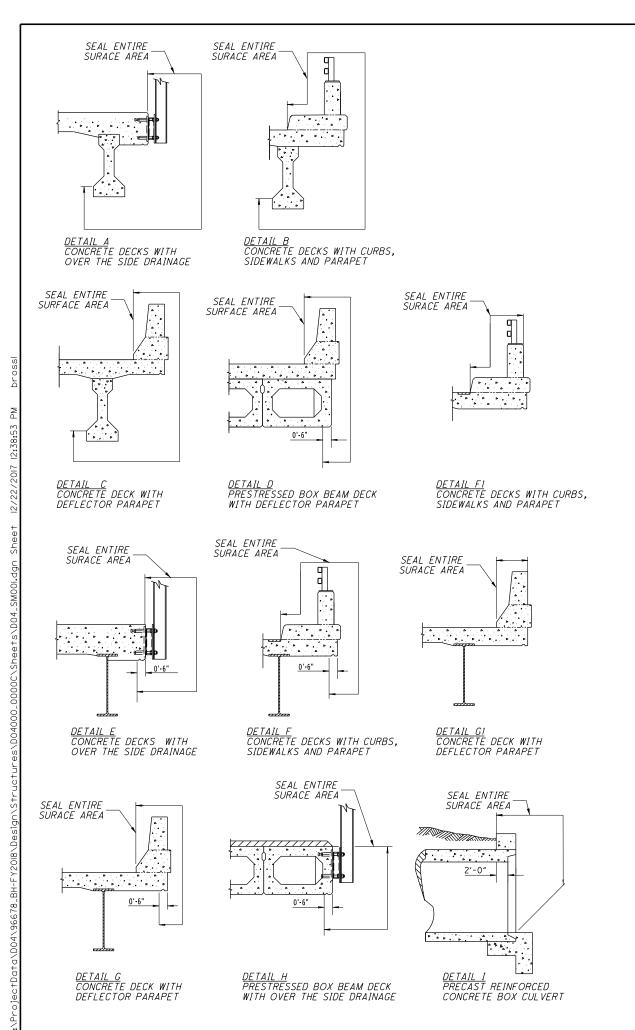
11"

ALL REINFORNCING STEEL TO BE EPOXY COATED



<u>TYPE-2</u>

D04-BH-FY2018	STRUCTURE DETAILS	DESIGNED BFR	DRAWN BFR	DESIGNED DRAWN REVIEWED DATE BFR RAS 12/4/17	ATE 4/17	DESIGN AGENCY ODOT DISTRICT 4
PID No. 96678	BRIDGE NOT TRUETTING FEATURE INTERSECTED: YANKEE RUN	СНЕСКЕD МЈА	REVISED	CHECKED REVISED STRUCTURE FILE NUMBER MJA	NUMBER	PLANNING AND ENGINEERI



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Γhe					ESTIMA	ATED QUAI	NTITIES	
BRIDGE NUMBER	STRUCTURE TYPE	PROPOSED SEALING	FEDERAL COLOR NUMBER	ABUT (SQ YD)	PIER (SQ YD)	SUPER (SQ YD)	GENERAL (SQ YD)	TOTAL (SQ YD)
ATB-7-2755	PRESTRESSED CONCRETE BEAM SIMPLE SPAN	SEAL INSIDE FACE AND TOP OF PARAPET PER DETAIL G1	PER CMS			500		500
ATB-7-3039	STEEL BEAM CONTINUOUS	SEAL PATCHED MEADIAN AND CURB	PER CMS				20	20
ATB-20-0160	CONCRETE SLAB SIMPLE SPAN	SEAL CURB, SIDEWALK, INSIDE FACE AND TOP OF PARAPET PER DETAIL F1	PER CMS			113		113
ATB-20-0325	CONCRETE SLAB CONTINUOUS	SEAL CURB, SIDEWALK, INSIDE FACE AND TOP OF PARAPET PER DETAIL F1	PER CMS			180		180
ATB-84-1475	STEEL BEAM CONTINUOUS	SEAL PATCHED PARAPETS SEAL PATCHED SUBSTRUCTURE SEAL ALL REMOVED SPALLS ON THE DECK FLOOR	PER CMS				30	30
ATB-84-2048	STEEL BEAM CONTINUOUS	SEAL INSIDE FACE AND TOP OF PARAPET PER DETAIL G1	PER CMS			386		386
ATB-90-1582L	STEEL BEAM CONTINUOUS	SEAL PATCHED PARAPET AREAS	PER CMS				10	10
ATB-90-2173L	STEEL BEAM CONTINUOUS	SEAL PER DETAIL G	PER CMS			1187		1187
ATB-90-2172R	STEEL BEAM CONTINUOUS	SEAL PER DETAIL G	PER CMS			1187		1187
ATB-167-0234	STEEL BEAM CONTINUOUS	SEAL INSIDE FACE AND TOP OF PARAPET PER DETAIL G1	PER CMS			120	10	130
ATB-534-0106	CONCRETE SLAB CONTINUOUS	SEAL PATCHED DECK EDGE AREAS	PER CMS				10	10
POR-88-1196	CONCRETE SLAB CONTINUOUS	SEAL PATCHED SUBSTRUCTURE AREAS	PER CMS				15	15
TRU-5-1621	STEEL BEAM CONTINUOUS	SEAL PATCHED SUBSTRUCTURE AREAS	PER CMS				20	20
TRU-5-1917	PRESTRESSED CONCRETE BOX BEAM SIMPLE SPAN	SEAL PATCHED SUBSTRUCTURE AREAS	PER CMS				20	20
TRU-7-1164	STEEL BEAM CONTINUOUS	SEAL PER DETAIL E SEAL PATCHED SUBSTRUCTURE AREAS	PER CMS			115	35	150
TRU-45-2010	CONCRETE SLAB CONTINUOUS	SEAL INSIDE FACE AND TOP OF PARAPET PER DETAIL F1	PER CMS			120		120
TRU-87-2056	STEEL BEAM CONTINUOUS	SEAL PATCHED DECK EDGE AREAS SEAL PATCHED SUBSTRUCTURE AREAS	PER CMS				15	15
TRU-534-0450	STEEL BEAM CONTINUOUS	SEAL PATCHED DECK EDGE AREAS SEAL PATCHED SUBSTRUCTURE SEAL ALL REMOVED SPALLS ON THE DECK FLOOR	PER CMS				80	80
TRU-534-0988	STEEL BEAM CONTINUOUS	SEAL INSIDE FACE AND TOP OF PARAPET PER DETAIL G1	PER CMS			170		170

NOTE: EPOXY-URETHANE SEALER SHALL BE USED UNLESS SHOWN OTHERWISE

STRUCTURE DETAILS
US20, SR45, SR84, IR90, SR167, SR193, US322, SR534.

CHECKED REVISED STRUCTURE FILE NUMBE

WJA

DESIGNED DRAWN
REVIEWED DATE

BFR RAS 12/4/17

CHECKED REVISED STRUCTURE FILE NUMBE

DESIGN AGENCY
ODOT --- DISTRICT 4
PLANNING AND ENGINEERING

ASHTABULA: SR7, SR11, US20, OS6678 PORTAGE: SR14, SR44, SR88. TRU

D04-BH-FY2018 PID No. 96678