

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

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

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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)

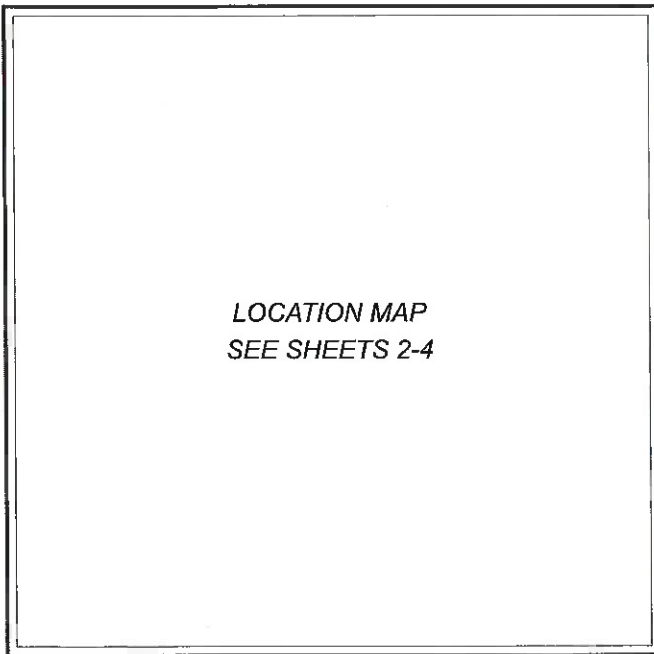
LIMITED ACCESS

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 DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 8.



LOCATION MAP
SEE SHEETS 2-4

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

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

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

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

ENGINEER'S SEAL:

SIGNED: *Mark J. Andrasiak*
DATE: *6/13/21*

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
DM-4.3	1/15/16			800-2019	7/16/21	WPC	6/9/21
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						

TITLE SHEET

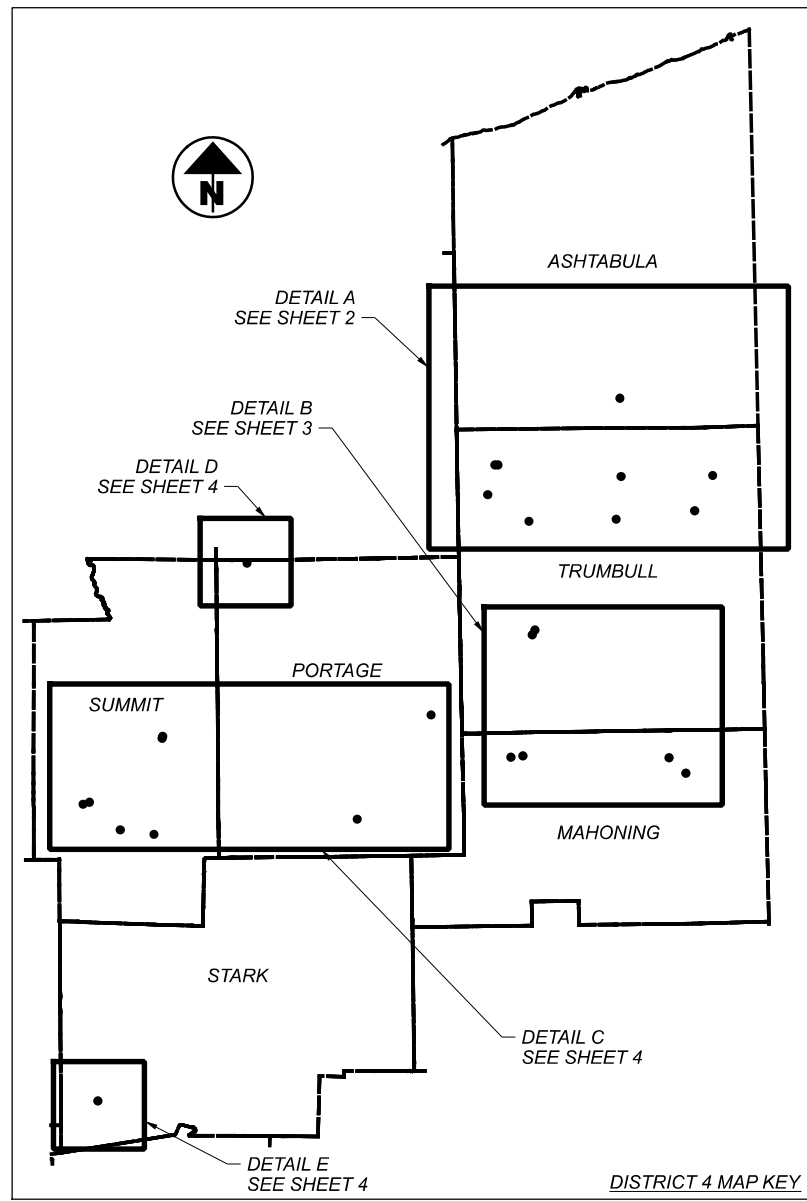
DESIGN AGENCY
DESIGNER
SJD
REVIEWER
MJA MM-DD-YY
PROJECT ID
103025
SHEET TOTAL
P.1 20

APPROVED: *[Signature]*
DATE: *6/17/21* DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

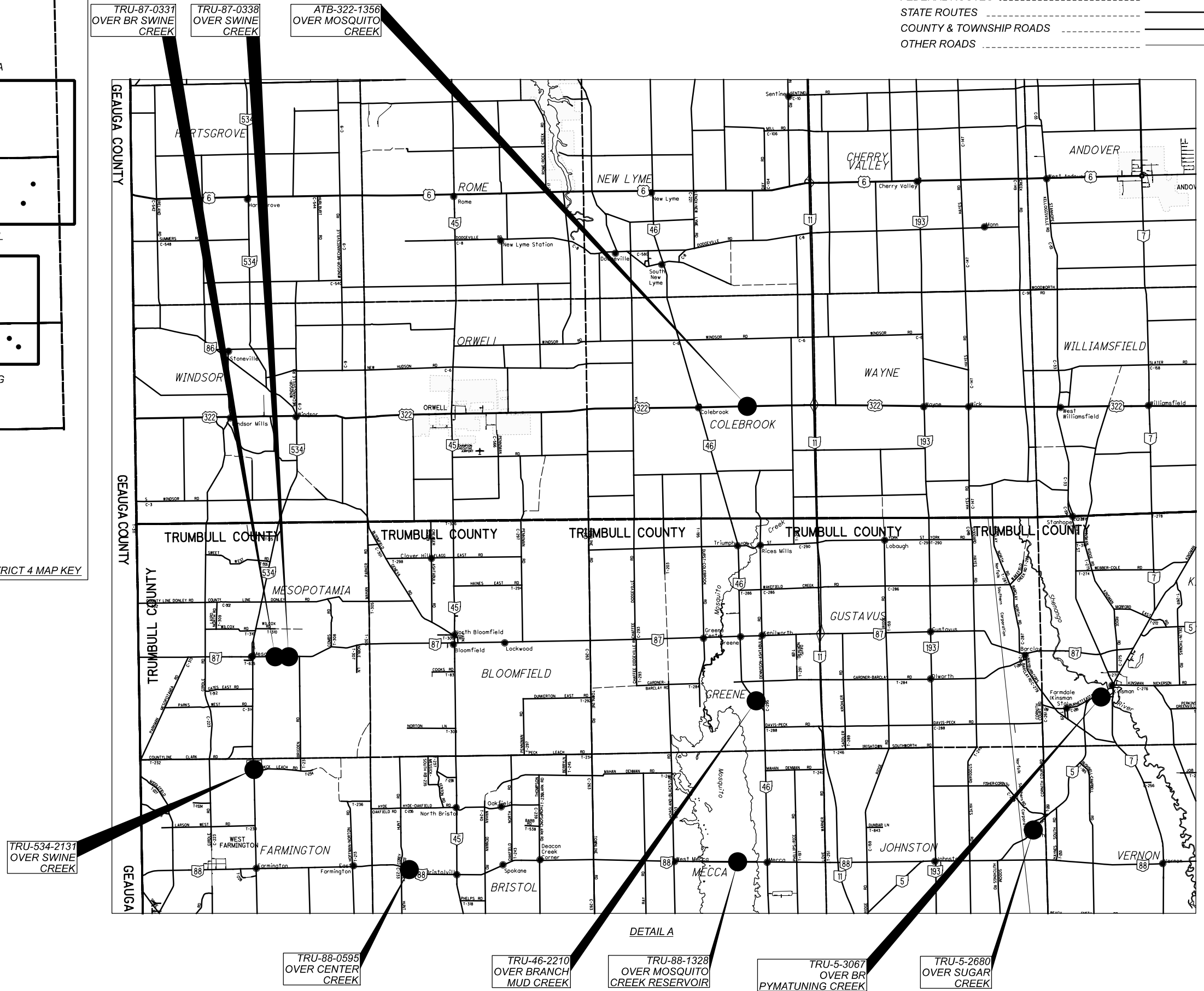
D04-BH-FY2022 (A)

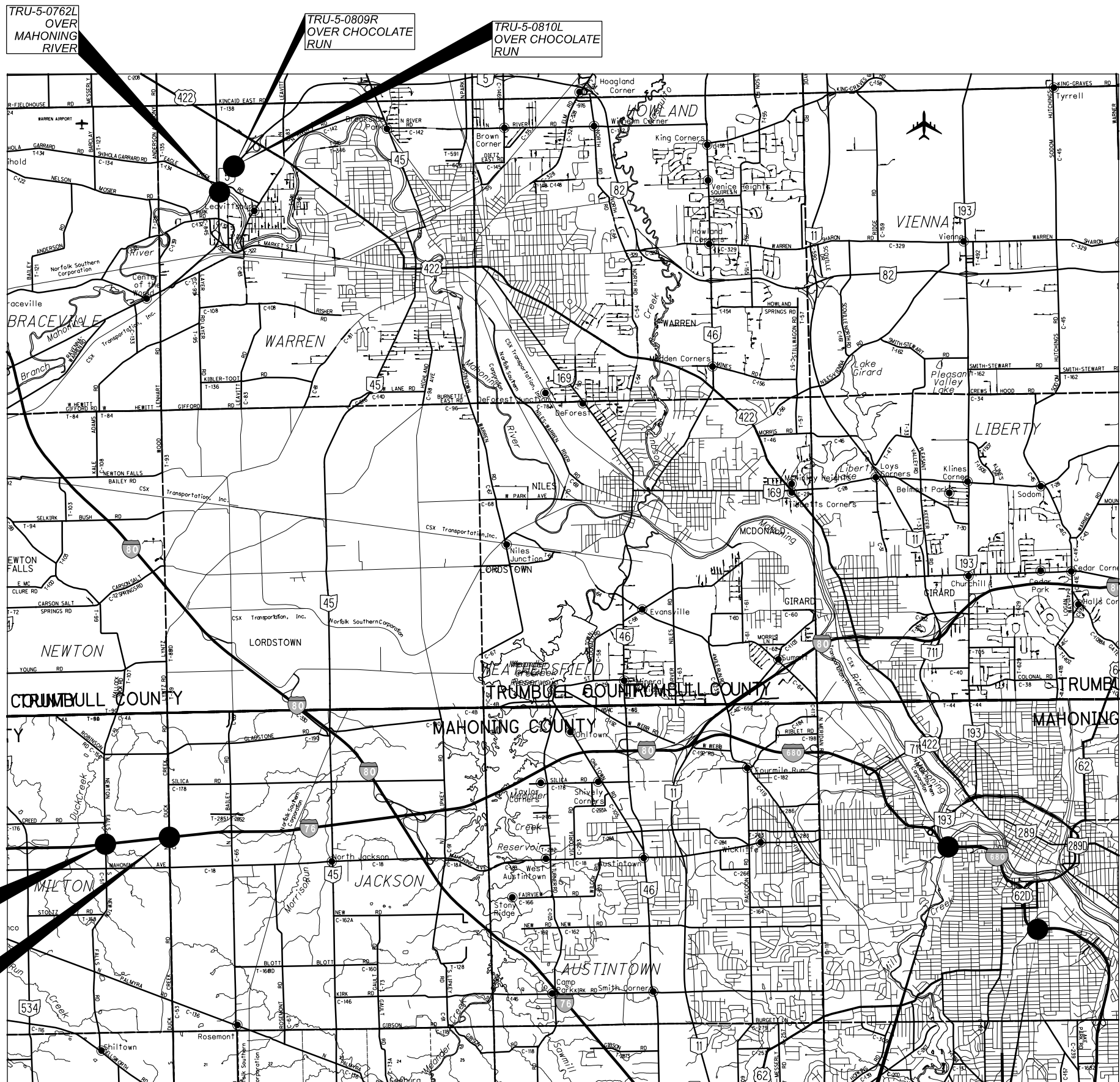
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LEGEND:

- STRUCTURE TO BE IMPROVED
- INTERSTATE HIGHWAY
- FEDERAL ROUTES
- STATE ROUTES
- COUNTY & TOWNSHIP ROADS
- OTHER ROADS





DETAIL B

- LEGEND:**
- STRUCTURE TO BE IMPROVED
 - INTERSTATE HIGHWAY
 - FEDERAL ROUTES
 - STATE ROUTES
 - COUNTY & TOWNSHIP ROADS
 - OTHER ROADS

LOCATION MAP - MAHONING, TRUMBULL COUNTY

DESIGN AGENCY



DESIGNER

SJD

REVIEWER

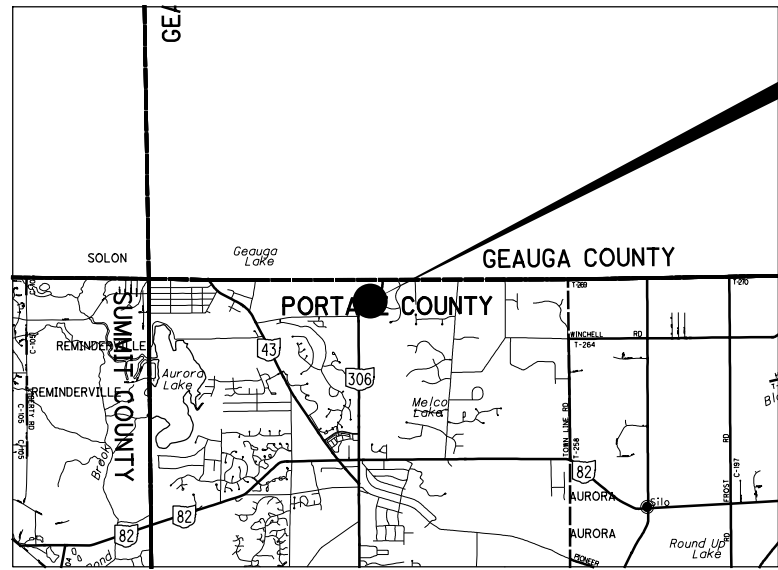
MJA 05-19-21

PROJECT ID

103025

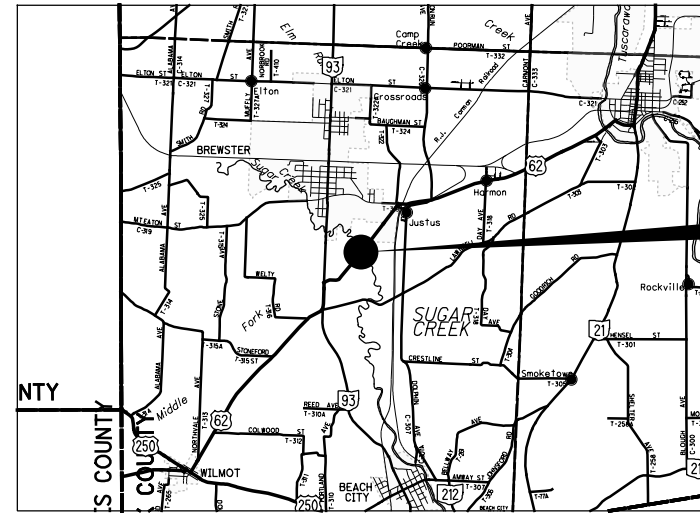
SHEET TOTAL

P.3 20



POR-306-0216
OVER BR CHAGRIN RIVER

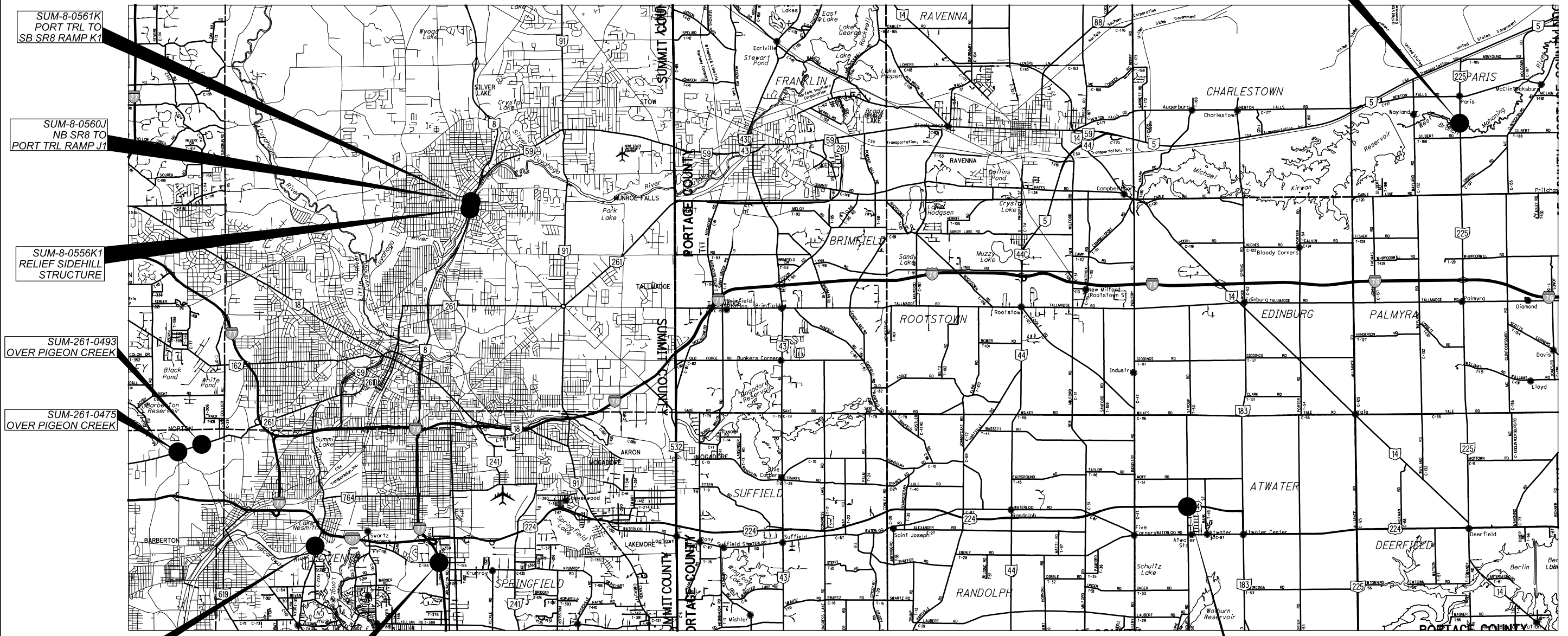
DETAIL D



STA-62-0468
OVER BR SUGAR CREEK

DETAIL E

POR-225-1425
OVER WEST BR
MAHONING RIVER



SUM-8-0561K
PORT TRL TO
SB SR8 RAMP K1

SUM-8-0560J
NB SR8 TO
PORT TRL RAMP J1

SUM-8-0556K1
RELIEF SIDEHILL
STRUCTURE

SUM-261-0493
OVER PIGEON CREEK

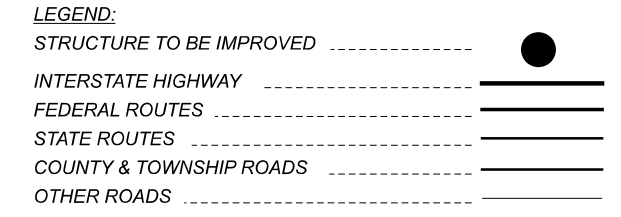
SUM-261-0475
OVER PIGEON CREEK

SUM-93-0801
OVER OHIO CANAL

SUM-77-8840
UNDER SWARZ RD CR-155

DETAIL C

POR-224-1172
OVER STROUP RD CR-50



UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.

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.

AT&T
ATTN: LUCIE HINSHAW
50 W. BOWERY ST. 6TH FLOOR
AKRON, OH 44308
330-384-3048
330-524-2091 CELL
lb2785@att.com

AT&T
ATTN: STEVEN HYLTON
50 W. BOWERY ST. 6TH FLOOR
AKRON, OH 44308
330-384-3055
330-631-7485 CELL
sh1513@att.com

AT&T
ATTN: HAROLD MAYNARD
50 W. BOWERY ST. 6TH FLOOR
AKRON, OH 44308
330-384-8974
216-548-1674 CELL
hm2147@att.com

CHARTER
ATTN: GREG REITER
4352 YOUNGSTOWN RD. SE
WARREN, OH 44484
330-369-7115
Greg.Reiter@charter.com

COBRA PIPELINE /
ORWELL TRUMBULL
ATTN: ELLIOT DULY
3511 LOST NATION ROAD SUITE 213
WILLOUGHBY, OH 44094
440-728-0957
eduly@cobrapipeline.com

DOMINION ENERGY
ATTN: MICAH RISACHER
320 SPRINGSIDE DRIVE
SUITE 320
AKRON, OH 44333
330-664-2638
440-371-1533 CELL
Micah.J.Risacher@dominionenergy.com
relocation@dominionenergy.com

LEVEL 3 COMMUNICATIONS/LUMEN
ATTN: DOUG HOLLOWAY
4000 CHESTER AVE.
CLEVELAND, OH 44103
216-426-6010
216-906-6284 CELL
doug.holloway@lumen.com
relocations@lumen.com

OHIO EDISON
ATTN: AMANDA TURNER
1910 W. MARKET STREET
BUILDING #1
AKRON, OH 44313
330-436-4093 OFFICE
330-388-5291 CELL
turnera@firstenergycorp.com

OHIO EDISON
ATTN: BRIAN MULICHAK
730 SOUTH AVENUE
YOUNGSTOWN, OH 44502
724-962-1094 CELL
bmulichak@firstenergycorp.com

OHIO EDISON (TRANSMISSION)
FIRST ENERGY SERVICE COMPANY
SUPERVISOR, TRANSMISSION
MAINTENANCE
ATTN: RYAN GRADY
330-252-6379
330-413-2046 CELL
rgrady@firstenergycorp.com

UTILITY PIPELINE, LTD.
ATTN: KEVIN KOMARA
4100 HOLIDAY ST. NW
SUITE 201
CANTON, OHIO 44718
330-498-9130
kkomara@utilitypipelineltd.com

WEST FARMINGTON WATER DEPT.
ATTN: MIKE MCINTOSH
1 WATER STREET
WEST FARMINGTON, OHIO 44491
330-246-0524

YOUNGSTOWN WATER DEPARTMENT
ATTN: DAN BLAKLEY
26 S. PHELPS STREET
YOUNGSTOWN, OH 44503
330-743-5340
dblakely@youngstownohio.gov

CITY OF CUYAHOGA FALLS
TECHNICAL DEPARTMENT
ATTN: CARL BUSER
2511 BAILEY ROAD
CUYAHOGA FALLS, OH 44221
330-971-8071
busercg@cityofcf.com

CITY OF CUYAHOGA FALLS
ELECTRIC DEPARTMENT
ATTN: RON BOORMAN
2550 BAILEY ROAD
CUYAHOGA FALLS, OH 44221
330-971-8049
boormanj@cityofcf.com

NORTHEASTERN ITS
ATTN: JOHN BRUCE
800 WOODLANDS PARKWAY SUITE 102
RICHLAND, MS 39157
769-216-8095
John.bruce@zayo.com

STATE SCENIC RIVER/STREAM AVOIDANCE - POR-306-2.16

UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT (LIFT, SCAFFOLDING, BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS ENTER THE STATE SCENIC CHAGRIN RIVER OR ANY OF THE OTHER AFOREMENTIONED STREAMS. NO FILL MATERIAL (INCLUDING TEMPORARY FILLS SUCH AS COFFERDAMS, ETC.) SHALL BE PLACED BELOW THE IDENTIFIED ORDINARY HIGH WATER MARK (OHWM) OF THE STATE SCENIC RIVER OR STREAMS. 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 RIVER OR STREAMS. AN UNDER DECK APRON OR SIMILAR DEVICE SHALL BE INSTALLED TO PREVENT DEBRIS, CONSTRUCTION RUNOFF AND OTHER MATERIALS/SUBSTANCES FROM ENTERING THE STATE SCENIC RIVER OR STREAMS DURING THE PATCHING AND WATER BLASTING (CLEANING) OPERATIONS. ALL DEBRIS COLLECTED SHALL BE DISPOSED OF AT AN APPROPRIATE FACILITY ABOVE THE FEMA 100 YEAR FLOODPLAIN AND NOT WITHIN 1000 FEET OF ANY SCENIC RIVER.

WETLANDS AVOIDANCE - ATB-322-13.56, POR-225-14.25, POR-306-2.16, STA-62-4.68, SUM-261-4.93, TRU-5-8.09R/8.10L, TRU-5-30.67 & TRU-87-3.31

NO EXCAVATION, GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN THE WETLANDS DELINEATED JUST BEYOND THE PROJECT CONSTRUCTION LIMITS AND DEPICTED IN THE PROJECT PLANS. TO PROTECT AND DELINEATE THE BOUNDARIES OF THE EXISTING RESOURCES, A FILTER FABRIC FENCE AND TEMPORARY CONSTRUCTION FENCE PER SUPPLEMENTAL SPECIFICATION 832, SHALL BE INSTALLED AT THE PROPOSED CONSTRUCTION LIMITS, MAINTAINING A ONE-FOOT BUFFER BETWEEN THE FENCE AND THE WETLAND BOUNDARIES, WHEN PRACTICABLE, PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, INCLUDING ANY NECESSARY CLEARING AND GRUBBING ACTIVITIES, AND BE MAINTAINED BY THE CONTRACTOR THROUGHOUT PROJECT CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT (LIFT, SCAFFOLDING, BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS IN ANY WETLANDS, ETC. ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS SECTION 107.10 (PROTECTION AND RESTORATION OF PROPERTY) PROHIBIT THE CONTRACTOR FROM CREATING STAGING AREAS NEAR STREAMS AND/OR WETLANDS.

IN-STREAM WORK RESTRICTIONS - POR-225-14.25, POR-306-2.16, STA-62-4.68, TRU-87-3.31 & TRU-87-3.38

NO IN-WATER WORK SHALL OCCUR IN THE WEST BRANCH OF MAHONING RIVER AT POR-225-14.25, THE AUROA BRANCH OF THE CHAGRIN RIVER AT POR-306-2.16, SUGAR CREEK AT STA-62-4.68, ANDREWS CREEK AT TRU-87-3.31 AND SWINE CREEK AT TRU-87-3.38 FROM MARCH 15 THROUGH JUNE 30 TO MINIMIZE IMPACTS TO INDIGENOUS AQUATIC SPECIES AND THEIR HABITAT.

PAINTING AND SEALING OPERATIONS - POR-306-2.16

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 CHAGRIN RIVER/AURORA BRANCH 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 THE STATE SCENIC CHAGRIN RIVER/AURORA BRANCH AND UNDER NO CIRCUMSTANCES SHALL ANY SEALER BE STORED WITH THE 100-YEAR FLOOD PLAIN OF THE STATE SCENIC CHAGRIN RIVER/AURORA BRANCH.

ENDANGERED SPECIES HABITAT - INDIANA BAT/NORTHERN LONG-EARED BAT THE ATB-322-13.56, POR-225-14.25, POR-306-2.16, STA-62-4.68, SUM-261-4.93, TRU-5-26.80, TRU-5-30.67, TRU-87-3.31 & TRU-87-3.38

PROJECT SITES ARE LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED AT THESE LOCATIONS FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, 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.

CLIFF SWALLOW - TRU-88-13.28

THE TRU-88-13.28 STRUCTURE IS KNOWN TO PROVIDE NESTING HABITAT FOR THE CLIFF SWALLOW (HIRUNDO PYRRHONOTA), A BIRD PROTECTED BY LAW UNDER THE MIGRATORY BIRD TREATY ACT. THE UNDERSIDE OF THE TRU-88-13.28 BRIDGE SHOULD BE CAREFULLY EXAMINED FOR THE PRESENCE OF NESTS. CLIFF SWALLOWS CONSTRUCT GOURD-SHAPED NESTS MADE OF MUD PELLETS WITH A SMALL ENTRANCE TUNNEL ON ONE SIDE. NESTS ARE TYPICALLY FOUND ON A VERTICAL SURFACE UNDER AN OVERHANG. TO AVOID IMPACTING THE SPECIES, ANY WORK THAT WOULD RESULT IN THE DISTURBANCE OR REMOVAL OF A CLIFF SWALLOW NEST MUST BE CONDUCTED AFTER AUGUST 15 AND BEFORE APRIL 30, WHEN THE BIRDS ARE NOT USING THE NESTS FOR EGG LAYING OR BROOD REARING. IF OCCUPIED NESTS ARE FOUND ON THE UNDERSIDE OF THE BRIDGE, DO NOT DISTURB THE NEST AND CONTACT THE ODOT DISTRICT 4 ENVIRONMENTAL SECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR HARM NESTING BIRDS.

OHIO & ERIE CANAL TOWPATH TRIAL - SUM-93-8.01

THE SUM-93-8.01 BRIDGE SPANS THE OHIO CANAL AND THE OHIO & ERIE CANAL TOWPATH TRAIL AND IS LOCATED ADJACENT TO THE MANCHESTER ROAD TRAILHEAD. THE CONTRACTOR SHALL NOT STAGE OR STORE ANY CONSTRUCTION EQUIPMENT AND/OR MATERIALS WITHIN THE TRAILHEAD PARKING AREA ADJACENT TO THE BRIDGE OR UNDERNEATH THE BRIDGE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE MANCHESTER ROAD TRAILHEAD WHILE ALSO MAINTAINING A SAFE OPEN TRAIL AND CHANNEL AT ALL TIMES DURING PROJECT CONSTRUCTION AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE PUBLIC SAFETY BELOW THE BRIDGE WITHIN THE PROJECT CONSTRUCTION LIMITS. THE CONTRACTOR SHALL CONTACT AND PROVIDE OPERATION AND CONSTRUCTION SCHEDULE INFORMATION TO THE SUMMIT COUNTY METROPARKS - NICK MOSKOS (330-865-8040 EXT. 217) A MINIMUM 14 DAYS IN ADVANCE OF PERFORMING ANY WORK ON THE SUM-93-8.01 BRIDGE.

STRUCUTURE PAINTING AND SEALING OPERATIONS

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

ENDANGERED SPECIES - EASTERN MASSASAUGA RATTLESNAKE/ATB-322-13.56, TRU-5-30.67 & TRU-87-3.31

THE AFOREMENTIONED PROJECT SITES ARE WITHIN THE RANGE OF THE EASTERN MASSASAUGA RATTLESNAKE (SISTRURUS CATENATUS) A STATE ENDANGERED AND FEDERAL THREATENED SPECIES. IF EASTERN MASSASAUGA RATTLESNAKES ARE ENCOUNTERED IN THE WORK AREA(S) DURING CONSTRUCTION, NO PERSON SHALL HARM OR KILL THE SNAKES OR ATTEMPT TO HANDLE THE EASTERN MASSASAUGA RATTLESNAKE. ALL CONSTRUCTION OPERATIONS AT THE WORK AREA(S) SHALL TEMPORARILY CEASE AND ODOT OFFICE OF ENVIRONMENTAL SERVICES (OES) - ECOLOGICAL SECTION (614-466-5129 OR 614-466-5112) AND THE UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) COLUMBUS FIELD OFFICE (614-416-8993) WILL BE IMMEDIATELY CONTACTED. CONSTRUCTION OPERATIONS WILL NOT RESUME UNTIL COORDINATION WITH ODOT OES AND USFWS HAS BEEN CONCLUDED.

MOSQUITO CREEK LAKE AND MOSQUITO LAKE STATE PARK - TRU-88-13.28

THE TRU-88-13.28 BRIDGE IS LOCATED IN PROXIMITY TO MOSQUITO LAKE STATE PARK AND THE TRU-88-13.28 BRIDGE SPANS MOSQUITO CREEK LAKE. ALL PROJECT WORK SHALL BE PERFORMED WITHIN EXISTING ROAD/BRIDGE EASEMENTS. ACCESS TO ALL MOSQUITO LAKE STATE PARK FACILITIES, INCLUDING THE NORTH AND SOUTH FISHING PLATFORMS AND THE FISHING ACCESS PARKING LOTS LOCATED ADJACENT TO SR 88 SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE PROJECT. ADDITIONALLY, THE FISHING ACCESS PARKING LOTS SHALL NOT BE USED TO STAGE CONSTRUCTION EQUIPMENT AND/OR MATERIALS. THE CONTRACTOR SHALL MAINTAIN SAFE BOAT ACCESS UNDER THE TRU-88-13.28 BRIDGE AT ALL TIMES DURING PROJECT CONSTRUCTION AND THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE PUBLIC AND MOSQUITO CREEK LAKE. UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT (BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR CONSTRUCTION MATERIALS ENTER MOSQUITO CREEK LAKE. HOWEVER, WATERCRAFT (BOAT, FLOATATION DEVICE, ETC.), WITH THE PRIOR APPROVAL BY THE ENGINEER, SHALL BE PERMITTED IN THE LAKE FOR CONSTRUCTION OPERATIONS SUCH AS MANPOWER TRANSPORT OR CONCRETE SEALING OPERATIONS. SHOULD ANY MATERIALS AND/OR DEMOLITION DEBRIS FALL INTO THE LAKE, ALL WORK SHALL BE STOPPED, AND ALL DEBRIS/MATERIALS, 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. THE CONTRACTOR SHALL COORDINATE THE BRIDGE MAINTENANCE CONSTRUCTION SCHEDULE WITH THE ODOT PROJECT ENGINEER, JOSIE MCKENNA - MOSQUITO LAKE STATE PARK MANAGER (JOSIE.MCKENNA@DNR.OHIO.GOV OR 440-226-6534) AND EVAN SKORNICK - US ARMY CORPS OF ENGINEERS, SUPERVISORY OPERATIONS PROJECT MANAGER, NORTHERN AREA OPERATIONS (EVAN.M.SKORNICK@USACE.ARMY.MIL OR 814-763-5037) PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. MS. MCKENNA AND MR. SKORNICK SHALL BE INVITED TO THE PRE-CONSTRUCTION MEETING AND RECEIVE A TWO-WEEK ADVANCED NOTICE PRIOR TO THE START OF CONSTRUCTION.

DESIGN AGENCY



DESIGNER
SJD

REVIEWER
MJA 05-19-21

PROJECT ID
103025

SHEET	TOTAL
P.5	20

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. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

FOR 2-LANE ROADWAYS, A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR 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 WORK.

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. 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 TWO (2) MILES RURAL OR ONE [1] MILE URBAN.

6. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, 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.

LANE CLOSURES - IR 76, IR 77, IR 680, US 62

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 REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2,500 PER HOUR OR PORITON 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 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 THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

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

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

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 REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING 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 SHALL HAVE NO OTHER CONSTRUCTION RELATED DUTIES. 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:

HOLIDAYS:
CHRISTMAS FOURTH OF JULY
NEW YEAR'S LABOR DAY
MEMORIAL DAY THANKSGIVING

EVENTS:
BRIDGESTONE INVITATIONAL
AKRON MARATHON
SWEET CORN FESTIVAL (RICHFIELD)
MESOPOTAMIA OX ROAST

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS 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
OR EVENT MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY 12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY 12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY 12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY 12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY (THANKSGIVING ONLY)
6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY 12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

ITS MESSAGE BOARDS

THE EXISTING ITS MESSAGE BOARDS IN THE VICINITY OF THE PROJECT WILL BE UTILIZED TO PROVIDE SUPPLEMENTAL INFORMATION TO THE TRAVELING PUBLIC. THE CONTRACTOR WILL NOTIFY THE PROJECT ENGINEER ONE [1] WEEK IN ADVANCE OF ANY PHASE CHANGE ON MAH-76, SUM-77 AND SUM-8. THE PROJECT ENGINEER WILL COORDINATE WITH RAY MARSCH AT 330-388-7967 TO GET THE ITS MESSAGE BOARDS ADJUSTED.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT PROJECTS MAH-680-0.00 (PID 91898)
TRU-5-8.30 (PID 110710)
D04-CHIP-FY2022 (PID 109580)
TRU-87-02.26 (PID 98491)
MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

ODNR PRECONSTRUCTION NOTIFICATION - POR-306-2.16 & TRU-5-30.67:

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 SIGNAGE, STAGING OF EQUIPMENT AND/OR MATERIALS, ETC. 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 MAINTENANCE, 4) ONE COPY OF THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL COMPILE THE ABOVE PRECONSTRUCTION NOTIFICATION AND SUBMIT IT TO THE ASSISTANT REGIONAL SCENIC RIVER MANAGERS, MATTHEW SMITH (MATTHEW.SMITH@DNR.OHIO.GOV OR 440-225-5582) AND JEFFRY HAYES (JEFFRY.HAYES@DNR.OHIO.GOV). 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 614 MAINTAINING TRAFFIC.

DESIGN AGENCY



DESIGNER
SJD

REVIEWER
MW 05-19-21

PROJECT ID
103025

SHEET TOTAL
P.6 20

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

IN GENERAL LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 180 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A PORTABLE CHANGEABLE MESSAGE SIGN, THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCE OF 800 FEET AND 650 FEET RESPECTIVELY.

EACH SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE PCMS SHOULD NOT BE LOCATED IN THE MEDIAN OF THE HIGHWAY UNLESS IT IS PROTECTED FROM BOTH DIRECTIONS OF TRAFFIC. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE THE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS WILL BE OFF. ADDITIONALLY WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW REFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE CONTRACTOR. A LIST OF ALL PROPOSED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE LINE PRESENTATION FORMATS WITH UP TO OF SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DE-ACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL [IN ACTIVE CELLULAR AREAS] ALLOW REMOTE SIGN ACTIVATION, DEACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614.07. THE CONTRACTOR SHALL PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THEIR USE. THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 614.02.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN, 6 SIGN MONTH

DETOUR NOTIFICATION [ODOT]

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

DETOUR NOTIFICATION [TRUMBULL COUNTY]

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND THE TRUMBULL COUNTY ENGINEER'S OFFICE (RANDY SMITH 330-675-2640) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 7 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 8. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$17,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

DESIGN AGENCY



DESIGNER

SJD

REVIEWER

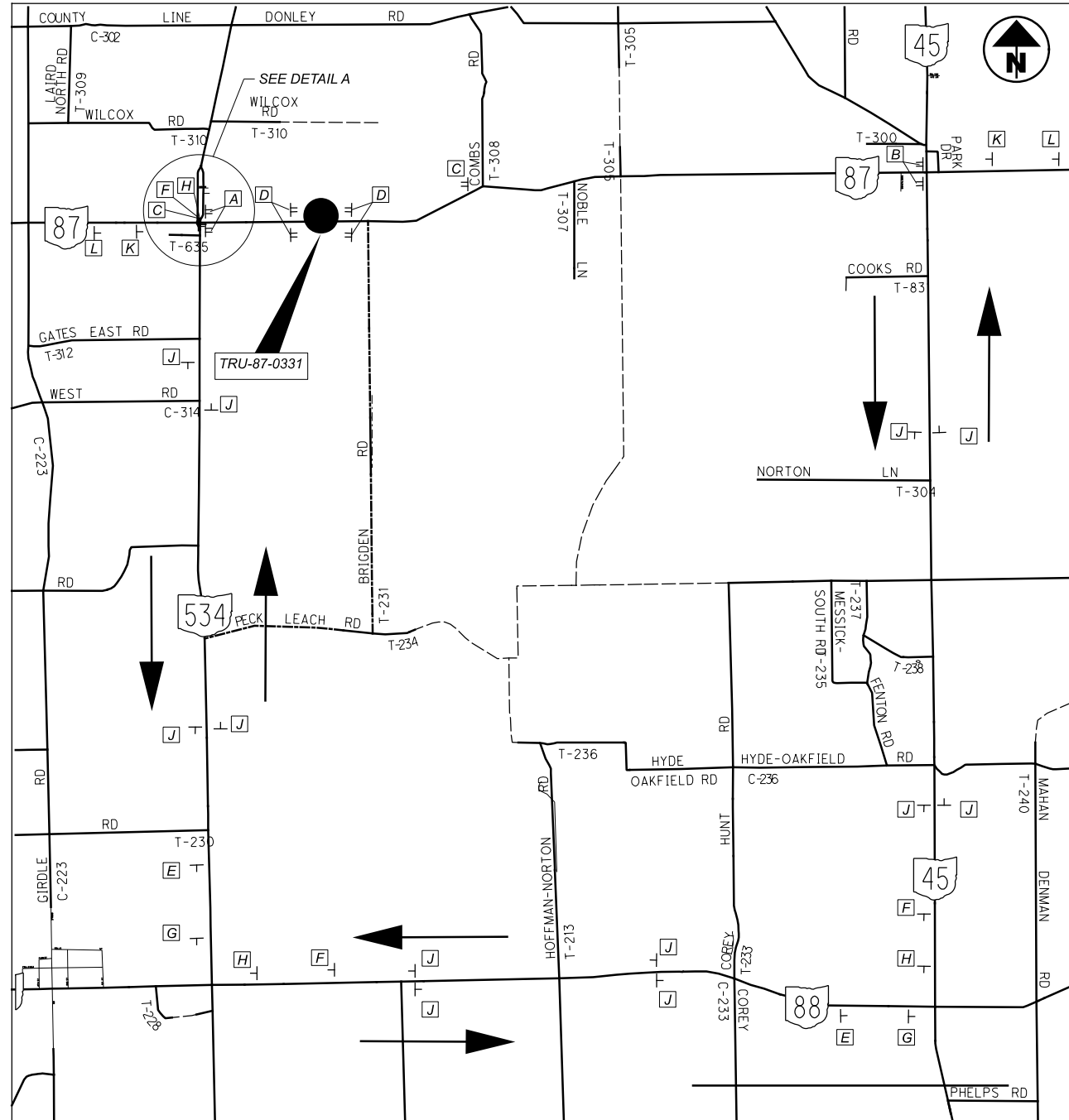
MW 05-17-21

PROJECT ID

103025

SHEET TOTAL

P.7 20



DETOUR ROUTE FOR TRU-87-0331

← OFFICIAL DETOUR: SR 534 / SR 87 / SR 45

----- LOCAL DETOUR ROUTE: PECK LEACH RD. / BRIGDEN RD.

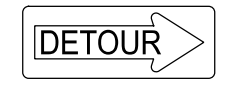
REFER TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 6H-8 (TYPICAL APPLICATION 8) FOR SIGN SPACING

ON TYPE III BARRICADE WITH TYP B FLASHERS MOUNTED, PER SCD MT-101.60

A #

ROAD CLOSED
MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60

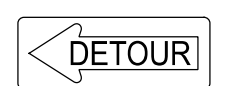


M4-10R-48

B #

ROAD CLOSED
MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60



M4-10L-48

C #

ROAD CLOSED
MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60

D #

ROAD
CLOSED

R11-2-48

E

DETOUR

M4-8-24



M1-5-24-2



M5-1-24

F

DETOUR

M4-8-24



M1-5-24-2



M5-1-24

G

DETOUR

M4-8-24



M1-5-24-2



M6-1-24

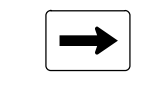
H

DETOUR

M4-8-24



M1-5-24-2



M6-1-24

J

DETOUR

M4-8-24



M1-5-24-2



M6-3-24

K

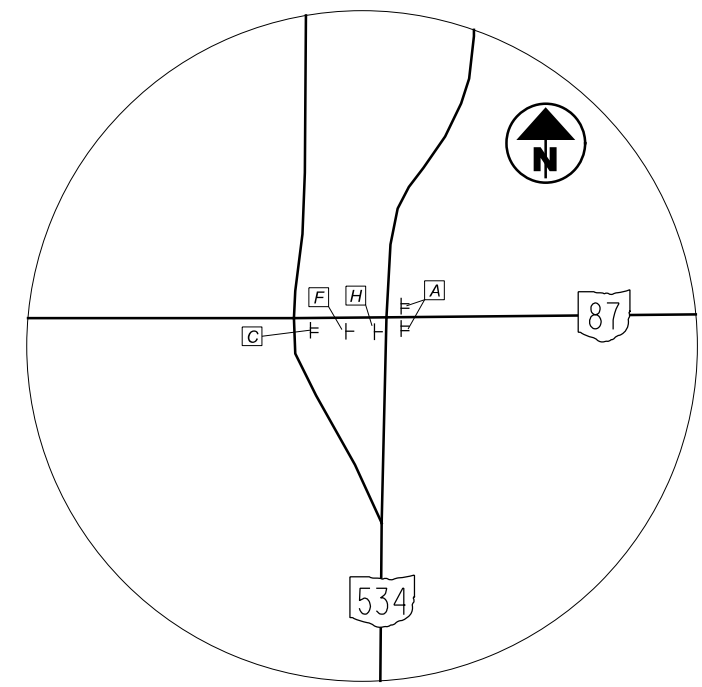


W20-2-48

L



W20-3-48



DETAIL A

DESIGN AGENCY



DESIGNER
MJA

REVIEWER
MW 05-19-21

PROJECT ID
103025

SHEET TOTAL
P.8 20

SHEET NUM.							PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
					7		01/IMS/BR	02/NHS/BR	03/S>2/BR	04/STR/BR						
										4,500	832	30000	4,500	EACH	EROSION CONTROL	
															STRUCTURE REPAIRS	
															FOR ATB-322-1356 ESTIMATED QUANTITIES	12
															FOR MAH-680-0481 ESTIMATED QUANTITIES	12
															FOR MAH-680-0706 ESTIMATED QUANTITIES	12
															FOR MAH-76-0409 ESTIMATED QUANTITIES	12
															FOR MAH-76-0508 ESTIMATED QUANTITIES	12
															FOR POR-224-1172 ESTIMATED QUANTITIES	12
															FOR POR-225-1425 ESTIMATED QUANTITIES	12
															FOR POR-306-0216 ESTIMATED QUANTITIES	12
															FOR STA-62-0468 ESTIMATED QUANTITIES	13
															FOR SUM-261-0475 ESTIMATED QUANTITIES	13
															FOR SUM-261-0493 ESTIMATED QUANTITIES	13
															FOR SUM-77-0884 ESTIMATED QUANTITIES	13
															FOR SUM-8-0556K1 ESTIMATED QUANTITIES	13
															FOR SUM-8-0560J ESTIMATED QUANTITIES	13
															FOR SUM-8-0561K ESTIMATED QUANTITIES	13
															FOR SUM-93-0801 ESTIMATED QUANTITIES	13
															FOR TRU-46-2210 ESTIMATED QUANTITIES	14
															FOR TRU-5-0762L ESTIMATED QUANTITIES	14
															FOR TRU-5-0809R ESTIMATED QUANTITIES	14
															FOR TRU-5-0810L ESTIMATED QUANTITIES	14
															FOR TRU-5-2680 ESTIMATED QUANTITIES	14
															FOR TRU-5-3067 ESTIMATED QUANTITIES	14
															FOR TRU-534-2131 ESTIMATED QUANTITIES	15
															FOR TRU-87-0331 ESTIMATED QUANTITIES	14
															FOR TRU-87-0338 ESTIMATED QUANTITIES	14
															FOR TRU-88-0595 ESTIMATED QUANTITIES	15
															FOR TRU-88-1328 ESTIMATED QUANTITIES	15
															MAINTENANCE OF TRAFFIC	
					180		30	45	20	85	614	11110	180	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
										LS	614	12420	LS		DETOUR SIGNING	
					6					6	614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	7
															INCIDENTALS	
										LS	614	11000	LS		MAINTAINING TRAFFIC	
										6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
										LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS	624	10000	LS		MOBILIZATION	

DESIGN AGENCY



DESIGNER

SJD

REVIEWER

MJA 05-19-21

PROJECT ID

103025

SHEET

P.9

TOTAL

20

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 CLEANOUT
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
DESIGN AGENCY



DESIGNER CHECKER
SJD MJA

REVIEWER
RAS 03-18-21

PROJECT ID
103025

SUBSET TOTAL
1 11

SHEET TOTAL
P.10 20

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.

- STRUCTURE MAH-76-0409 (SFN:5002826) THE EXISTING SIGN SHOWS 0412. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0409.
- STRUCTURE MAH-76-0508 (SFN:5002885) THE EXISTING SIGN IS MISSING. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0508.
- STRUCTURE MAH-680-0706 (SFN:5003350) THE EXISTING SIGN SHOWS 0705. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0706.
- STRUCTURE POR-224-1172 (SFN:6703909) THE EXISTING SIGN SHOWS 1171. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1172.
- STRUCTURE POR-225-1425 (SFN:6704174) THE EXISTING SIGN SHOWS 1426. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1425.
- STRUCTURE POR-306-0216 (SFN:6704743) THE EXISTING SIGN SHOWS 0217. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0216.
- STRUCTURE SUM-77-0884 (SFN:7702612) THE EXISTING SIGN SHOWS 0886. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0884.
- STRUCTURE SUM-8-0560J (SFN:7700628) THE EXISTING SIGN SHOWS 0552J. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0560J.
- STRUCTURE SUM-93-0801 (SFN:7707568) THE EXISTING SIGN SHOWS 0800. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0801.
- STRUCTURE SUM-261-0475 (SFN:7708580) THE EXISTING SIGN SHOWS 0476. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0475.
- STRUCTURE SUM-261-0493 (SFN:7708610) THE EXISTING SIGN SHOWS 0494. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0493.
- STRUCTURE TRU-5-0762L (SFN:7800339) THE EXISTING SIGN SHOWS 0764L. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0762L.
- STRUCTURE TRU-5-0809R (SFN:7800452) THE EXISTING SIGN SHOWS 0811R. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0809R.
- STRUCTURE TRU-5-0810L (SFN:7800428) THE EXISTING SIGN SHOWS 0811. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0810L.
- STRUCTURE TRU-5-2680 (SFN:7801386) THE EXISTING SIGN SHOWS 2681. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 2680.
- STRUCTURE TRU-5-3067 (SFN:7801440) THE EXISTING SIGN SHOWS 3056. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 3067.
- STRUCTURE TRU-46-2210 (SFN:7802889) THE EXISTING SIGN SHOWS 2214. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 2210.
- STRUCTURE TRU-87-0331 (SFN:7805179) THE EXISTING SIGN SHOWS 0333. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0331.
- STRUCTURE TRU-87-0338 (SFN:7805209) THE EXISTING SIGN SHOWS 0340. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0338.
- STRUCTURE TRU-88-0595 (SFN:7805799) THE EXISTING SIGN SHOWS 0594. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0595.
- STRUCTURE TRU-534-2131 (SFN:7807678) THE EXISTING SIGN SHOWS 2135. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 2131.

TRU-87-0331 REAR ABUTMENT REPAIR

THE FOLLOWING ITEMS SHALL BE USED FOR THE REMOVAL OF THE EXISTING FACE OF THE REAR ABUTMENT AND REPLACE WITH A NEW CONCRETE FACE AS SHOWN ON SHEETS 9/11 & 10/11.

- ITEM 202 - REMOVAL MISC.: ABUTMENT FACING
- ITEM 202 - GUARDRAIL REMOVED FOR REUSE, 150 FEET
- ITEM 509 - EPOXY COATED REINFORCING STEEL, 357 LBS
- ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, 52 EACH
- ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 9 SY
- ITEM 601 - ROCK CHANNEL, MISC.: REMOVE AND REINSTALL
- ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN, 150 FEET
- ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, 75 SF

PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL INSTALL SILT FENCE AND ORANGE CONSTRUCTION FENCE AROUND PERIMETER OF THE WORK AREA (THE WORK AREA SHALL BE LIMITED TO A MAXIMUM OF 0.09 ACRES).

THE CONTRACTOR WILL BE PERMITTED TO DRILL A MAXIMUM OF 4 HOLES LESS THAN 12" IN DIAMETER IN THE BRIDGE DECK. ALL DRILLED HOLES SHALL BE REPAIRED USING CONCRETE FROM ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION. EXTERNAL VIBRATION SHALL BE USED FOR CONCRETE COMPACTION. THE CONTRACTOR SHALL ENSURE CONCRETE HAS BEEN INSTALLED CORRECTLY USING METHODS APPROVED BY THE PROJECT ENGINEER.

NO WORK, EQUIPMENT, OR MATERIAL SHALL EXTEND BEYOND THE RIGHT OF WAY. PAYMENT FOR ALL WORK ASSOCIATED WITH THE SHOULDER AND DITCH RESTORATION AND SEDIMENT REMOVAL SHALL BE INCIDENTAL TO THE ABOVE PAY ITEMS.

ALL CONCRETE WORK SHALL BE COMPLETED BY DECEMBER 1, 2021.

ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT - TRU-87-0338

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT-OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR STRUCTURES TRU-87-0338. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

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

ITEM 202 - REMOVAL, MISC.: ABUTMENT FACING (TRU-87-0331)

THIS ITEM SHALL BE USED FOR THE REMOVAL OF ALL EXISTING CONCRETE ON THE FACE OF THE REAR ABUTMENT OF TRU-87-0331 AS SHOWN ON SHEET 9/11 TO THE SATISFACTION OF THE PROJECT ENGINEER. EXISTING CONCRETE SHALL BE REMOVED TO REVEAL ENOUGH REBAR TO INSTALL THE GALVANIC ANODES AS PER SUPPLEMENTAL SPECIFICATION 844.

MILL CREEK PARK AVOIDANCE - MAH-680-4.81

THE MAH-680-4.81 BRIDGE SPANS MILL CREEK PARK. ALL PROJECT WORK SHALL BE PERFORMED WITHIN EXISTING INTERSTATE ROUTE 680 LIMITED ACCESS RIGHT-OF-WAY. STAGING AND/OR STORAGE OF CONSTRUCTION EQUIPMENT AND/OR MATERIALS OUTSIDE THE RIGHT-OF-WAY IS PROHIBITED. USE OF MILL CREEK PARK PROPERTY FOR ANY REASON IS ALSO PROHIBITED. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT USERS OF MILL CREEK PARK BELOW THE BRIDGE DURING PROJECT CONSTRUCTION.

DRINKING WATER PROTECTION AREAS - SUM-261-4.75, SUM-261-4.93 & TRU-88-13.28

THE SUM-261-4.75, SUM-261-4.93 & TRU-88-13.28 BRIDGES ARE LOCATED WITHIN THE BARBERTON CITY AND WARREN CITY COMMUNITY SYSTEM DRINKING WATER SOURCE PROTECTION AREAS. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS ESTABLISHED FOR THE PROJECT. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA RELEASE REPORTING REQUIREMENTS), CONTACT THE SUMMIT COUNTY EMERGENCY MANAGEMENT AT 330-643-2522 OR THE TRUMBULL COUNTY EMERGENCY MANAGEMENT AT 330-675-2667 OR THE OHIO EPA SPILLS HOTLINE AT 800-282-9378 FOR CLEAN-UP OF THE SPILL.

ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS, AS PER PLAN (TRU-87-0331)


THE CONTRACTOR SHALL REINSTALL THE EXISTING GUARDRAIL AT THE REAR OF TRU-87-0331 WITHIN THE CONSTRUCTION LIMITS SHOWN ON SHEET 8/11. COORDINATION OF THIS WORK SHALL BE DONE PRIOR TO ANY WORK BEGINNING ON TRU-87-0331 WITH THE CONTRACTOR, PROJECT ENGINEER, AND THE CONTRACTOR AND PROJECT ENGINEER OF PID 98491 (TRU-87-2.26).

ITEM 601 - ROCK CHANNEL, MISC.: REMOVE AND REINSTALL (TRU-87-0331)

THE CONTRACTOR SHALL TEMPORARILY REMOVE THE EXISTING ROCK CHANNEL PROTECTION AT THE REAR ABUTMENT OF TRU-87-0331 PRIOR TO BEGINNING ANY CONCRETE WORK. AFTER ALL ABUTMENT CONCRETE WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL REINSTALL THE EXISTING ROCK CHANNEL PROTECTION TO THE SATISFACTION OF THE PROJECT ENGINEER.

RECREATIONAL USE OF THE WEST BRANCH OF MAHONING RIVER & SUGAR CREEK - POR-224-14.25 & STA-62-4.68:

ODOT SHALL MAINTAIN A SAFE OPEN CHANNEL AT ALL TIMES DURING PROJECT CONSTRUCTION AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THE SAFETY OF RECREATIONAL BOATERS WITHIN THE PROJECT CONSTRUCTION LIMITS. IF FOR ANY REASON THE PROJECT CAN NOT MAINTAIN AN OPEN CHANNEL, OR MAY HAVE AN IMPACT ON RECREATIONAL BOATING, THE CONTRACTOR MUST NOTIFY THE PROJECT ENGINEER AND MR. TOM ARBOUR, ODNR DIVISION OF PARKS AND WATERCRAFT, AT 614-265-6575 OR THOMAS.ARBOUR@DNR.STATE.OH.US. THE CONTRACTOR MUST PLACE SIGNAGE OR BUOYS OR MARKERS 300 FEET UPSTREAM AND DOWNSTREAM OF THE PROJECT AREA TO ALERT BOATERS OF CONSTRUCTION ACTIVITIES THAT STATES THE RIVER IS OPEN AND BOATERS ARE ALLOWED TO PASS UNDER THE BRIDGE WITH CAUTION. THE CONTRACTOR MUST CONTACT ODNR DIVISION OF PARKS AND WATERCRAFT 2 WEEKS IN ADVANCE OF CONSTRUCTION TO POST NOTICE OF THE IMPENDING PROJECT ON ODNR'S ONLINE BOATING WEBPAGE AND ASSOCIATED MAPS. TOM ARBOR, ODNR DIVISION OF PARKS AND WATERCRAFT TRAILS ADMINISTRATOR, CAN ASSIST WITH ANY NECESSARY LOCAL COORDINATION/COMMUNICATION, IF NEEDED. IF ON-THE-WATER LAW ENFORCEMENT ASSISTANCE IS NEEDED DURING ANY PORTION OF CONSTRUCTION OR IF THE CONTRACTOR HAS ANY SPECIFIC QUESTIONS ABOUT NAVIGATION ON THE MAHONING RIVER, PLEASE CONTACT DIVISION OF PARKS AND WATERCRAFT LAW ENFORCEMENT SUPERVISOR SCOTT STAUFFER AT Scott.Stauffer@dnr.ohio.gov or 440-812-3208.


SFN	
VARIOUS	
DESIGN AGENCY	
	
DESIGNER	CHECKER
SJD	MJA
REVIEWER	
RAS 05-18-21	
PROJECT ID	
103025	
SUBSET	TOTAL
2	11
SHEET	TOTAL
P.11	20

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

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

ESTIMATED QUANTITIES

BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	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					
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	CHECKER
SJD	MJA
REVIEWER	
RAS 05-18-21	
PROJECT ID	
103025	
SUBSET	TOTAL
4	11
SHEET	TOTAL
P.13	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.								ITEM	EXTENSION	UNIT	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					
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
						LS		601	35100		ROCK CHANNEL PROTECTION, MISC.: REMOVE AND REINSTALL	2 OF 11
						150		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

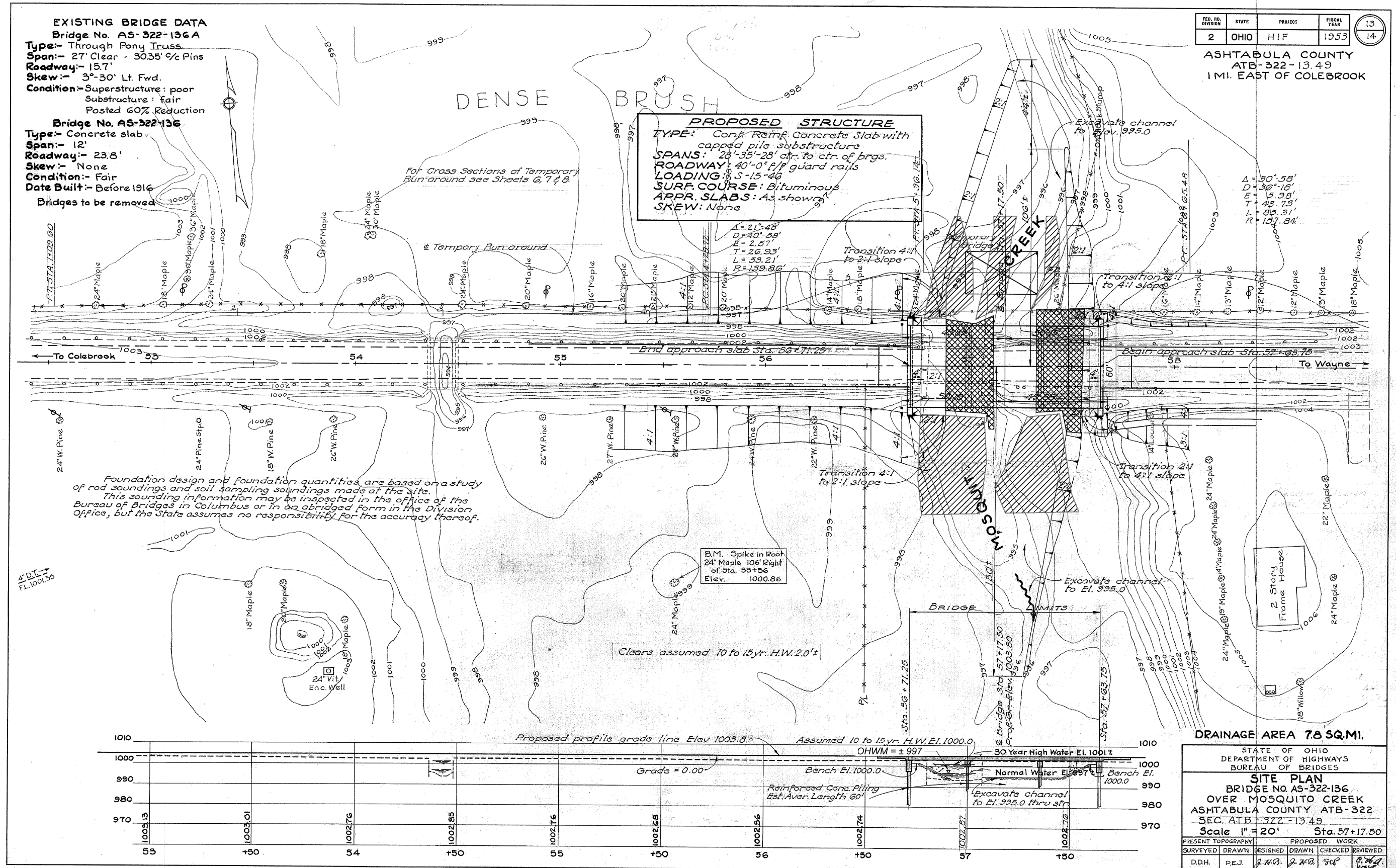
ESTIMATED QUANTITIES											
BRIDGE NO. / STRUCTURE FILE NO.											
TRU-88-0595 7805799 04/STR/BR	TRU-88-1328 78005918 04/STR/BR	TRU-534-2131 7807678 04/STR/BR					ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
LS	LS	LS					201	11001		CLEARING AND GRUBBING, AS PER PLAN	1 OF 11
							503	11100		COFFERDAMS 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: SJD
 CHECKER: MJA
 REVIEWER: RAS 05-18-21
 PROJECT ID: 103025
 SUBSET: 6 TOTAL: 11
 SHEET: P.15 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



EXISTING BRIDGE DATA
 Bridge No. AS-322-136A
 Type:- Through Pony Truss
 Span:- 27' Clear - 30.35' % Pins
 Roadway:- 15.7'
 Skew:- 3°-30' Lt. Fwd.
 Condition:- Superstructure: poor
 Substructure: fair
 Posted 60% Reduction

Bridge No. AS-322-136
 Type:- Concrete slab
 Span:- 12'
 Roadway:- 23.8'
 Skew:- None
 Condition:- Fair
 Date Built:- Before 1916
 Bridges to be removed

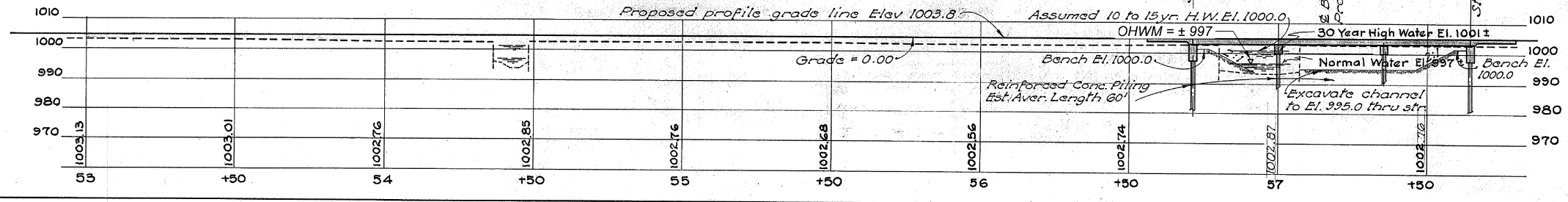
PROPOSED STRUCTURE
 TYPE: Concr. Reinf. Concrete Slab with capped pile substructure
 SPANS: 28'-35'-28' ctr. to ctr. of brgs.
 ROADWAY: 40'-0" F/R guard rails
 LOADING: S-15-46
 SURF. COURSE: Bituminous
 APPR. SLABS: As shown
 SKEW: None

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	HIF	1953

ASHTABULA COUNTY
 ATB-322-13.49
 1 MI. EAST OF COLEBROOK

Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

B.M. Spike in Root
 24" Maple 106' Right
 of Sta. 55+56
 Elev. 1000.86



DRAINAGE AREA 7.8 SQ. MI.

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES			
SITE PLAN			
BRIDGE NO. AS-322-136 OVER MOSQUITO CREEK ASHTABULA COUNTY ATB-322 SEC. ATB-322-13.49			
Scale 1" = 20'		Sta. 57+17.50	
PRESENT TOPOGRAPHY	DESIGNED	PROPOSED WORK	CHECKED
SURVEYED	DRAWN	DRAWN	CHECKED
D.D.H.	P.E.J.	J.H.G.	J.H.G.
BFG 2-29-52			

LEGEND

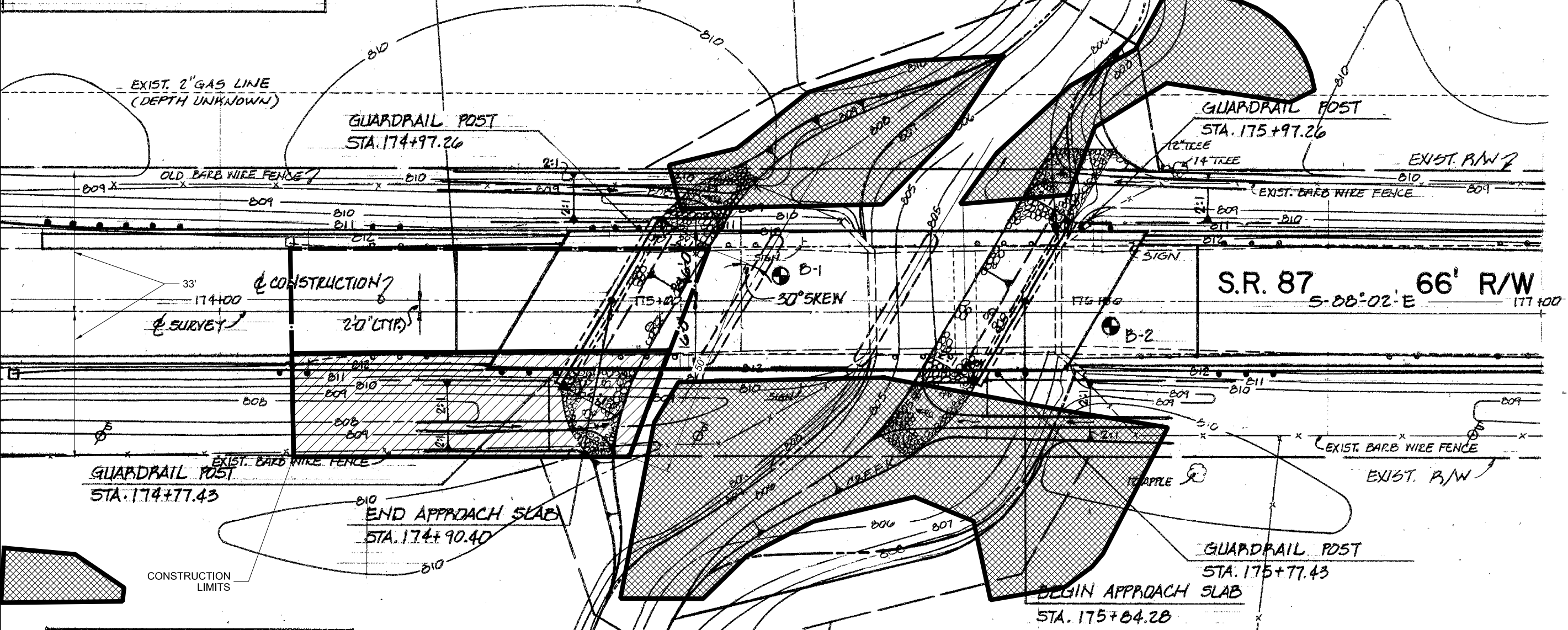
= WETLAND A (DO NOT DISTURB)

= DEWATERING AREA (0.053 ACRES)

STRUCTURE ATB-322-1356 PLAN SHEET (FOR REFERENCE ONLY)
 ATB - SR 322

SFN	0406368
DESIGN AGENCY	
DESIGNER/CHECKER	SJD MJA
REVIEWER	RAS 03-18-21
PROJECT ID	103025
SUBSET	TOTAL
7	11
SHEET	TOTAL
P.16	20

T.B.M. #2 EL. = 813.39
 RAILROAD SPIKE SET 12" UP IN NORTH
 SIDE OF POWER AND TELEPHONE POLE
 27' RT. & SURVEY STA. 170+67
 (POLE N# "O.E. CO. 1179N-7")



EXIST. 2" GAS LINE
 (DEPTH UNKNOWN)

OLD BARB WIRE FENCE

GUARDRAIL POST
 STA. 175+97.26

EXIST. R/W

S.R. 87 66' R/W
 5-08°-02'-E

33' CONSTRUCTION
 174+00 SURVEY
 20' CURB

B-1
 30° SKEW

B-2

GUARDRAIL POST
 STA. 174+77.43

END APPROACH SLAB
 STA. 174+90.40

GUARDRAIL POST
 STA. 175+77.43

BEGIN APPROACH SLAB
 STA. 175+84.28

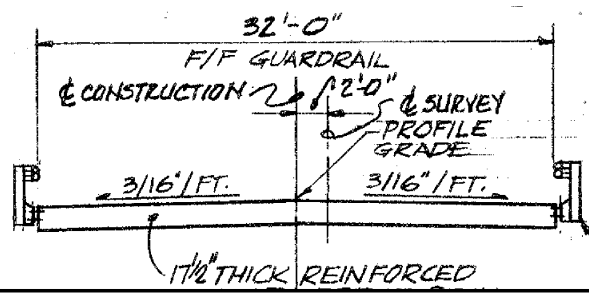
CONSTRUCTION LIMITS

CHANNEL EASEMENT

ANDREWS

TRAFFIC COUNT	
CURRENT ADT (1986)	3450
DESIGN YEAR ADT (2006)	4480
TRUCKS	6%

LEGEND
 = CONSTRUCTION ACCESS
 = WETLAND H (DO NOT DISTURB)



PLAN VIEW
 TRU-87-0331

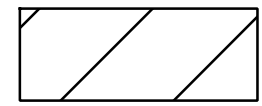
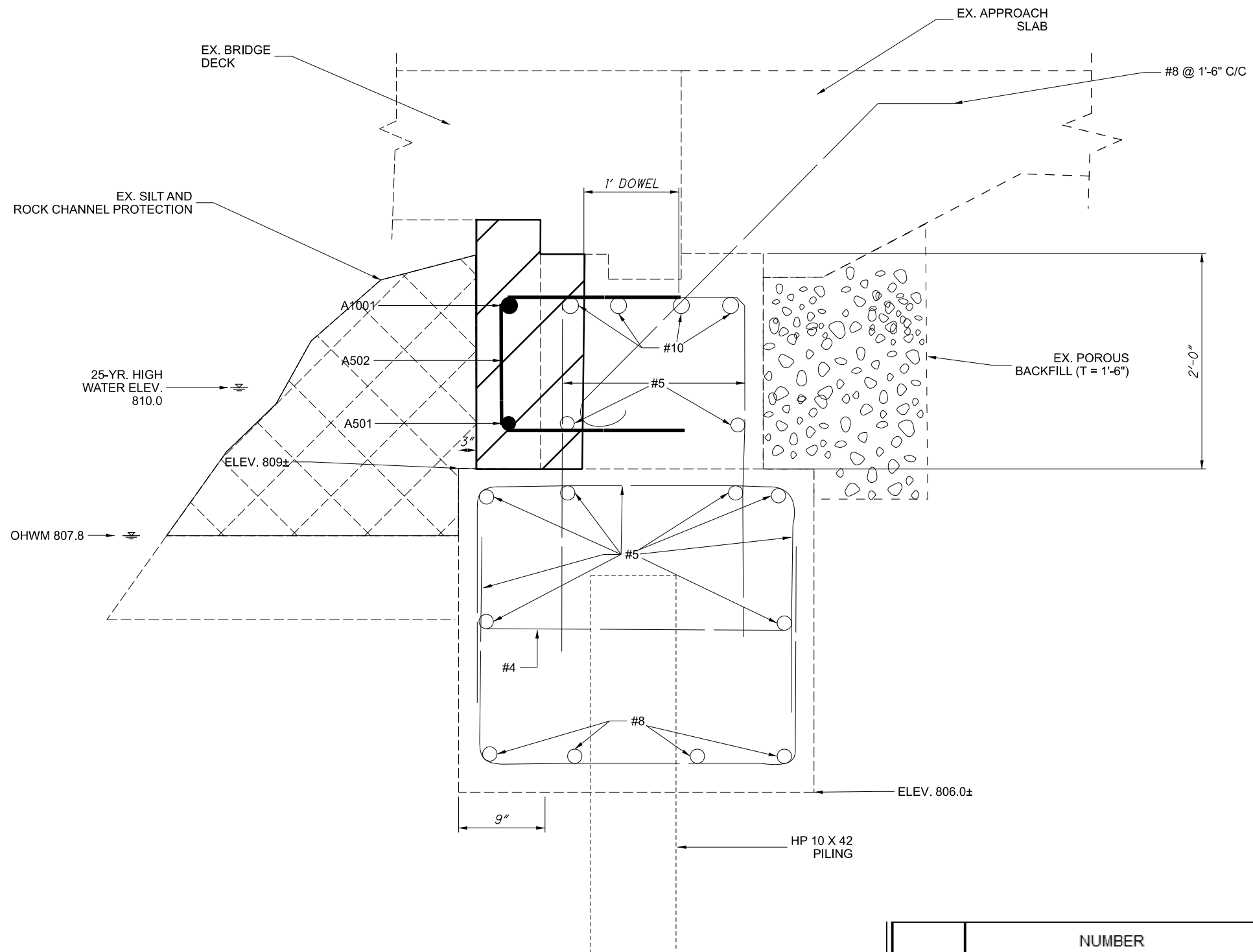
SFN 7805179
 DESIGN AGENCY



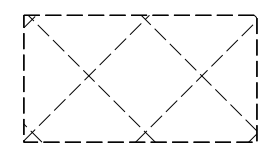
DESIGNER/CHECKER	MJA	RAS
REVIEWER	RAS	05-18-21
PROJECT ID	98491	
SUBSET	8	TOTAL 11
SHEET	P.17	TOTAL 20

TRU-87-2.26

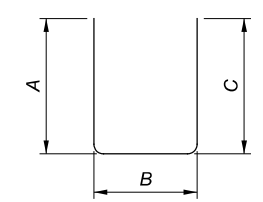
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= ITEM 202 - REMOVAL MISC.: ABUTMENT FACING
 ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION



= ITEM 601 - ROCK CHANNEL, MISC.: REMOVE AND REINSTALL



TYPE-2

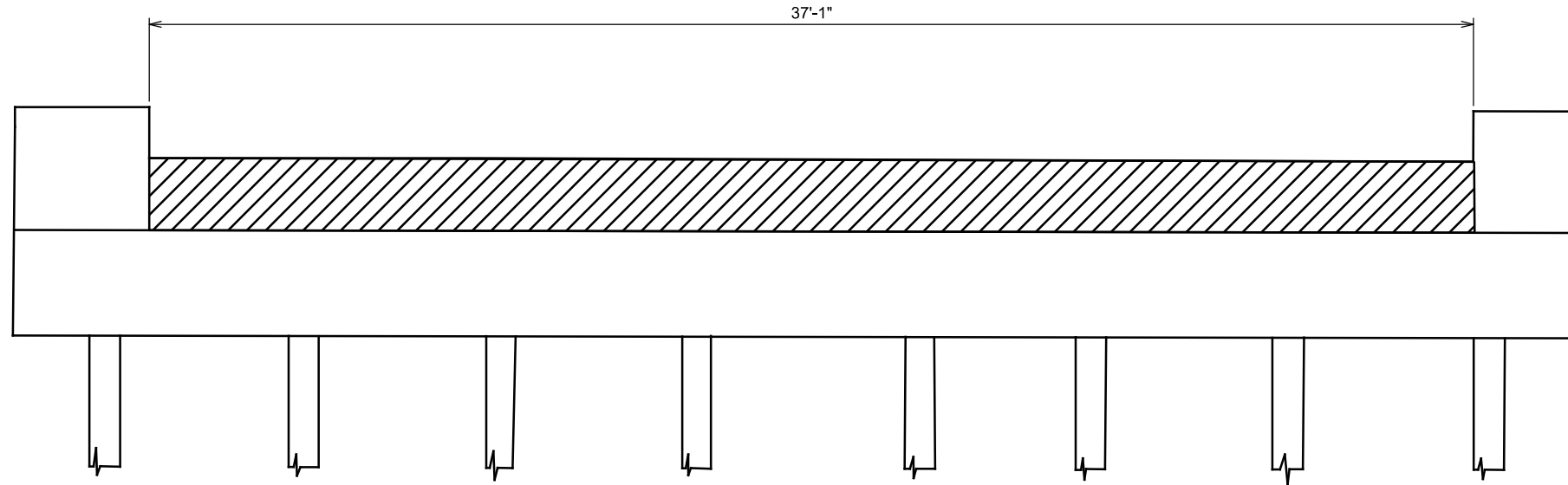
THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RRADIUS, UNLESS OTHERWISE NOTED. "STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORCING STEEL TO BE EPOXY COATED.

A502 DIMENSIONS INCLUDE 12" DOWEL

MARK	NUMBER				LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS						
	REAR ABUT	FWD ABUT	SUPER	TOTAL				A	B	C	D	E		
A501	2			2	19'-5"	41	STR							
A502	26			26	5'-1"	138	2	1'-8"	1'-9"	1'-8"				
A1001	2			2	20'-8"	178	STR							
TOTAL						357								





NOTES:

1. PAYMENT FOR ALL LABOR AND MATERIALS ASSOCIATED WITH THE CONCRETE SHALL BE AS PER SS844.
2. INSTALL 3 HORIZONTAL ROWS OF EMBEDDED XP2 GALVANIZED ANODES ON REAR ABUTMENT AT A SPACING OF 20". TIE ANODES TO THE EXISTING REBAR.

 = ITEM 202 - REMOVAL MISC.: ABUTMENT FACING,
 ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
 ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANOTE PROTECTION



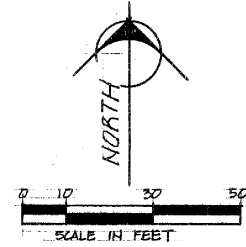
MICROFILMED
DEC 24 1980

F.H.W.A. REGION	STATE	PROJECT
5	OHIO	

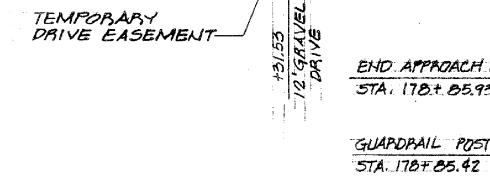
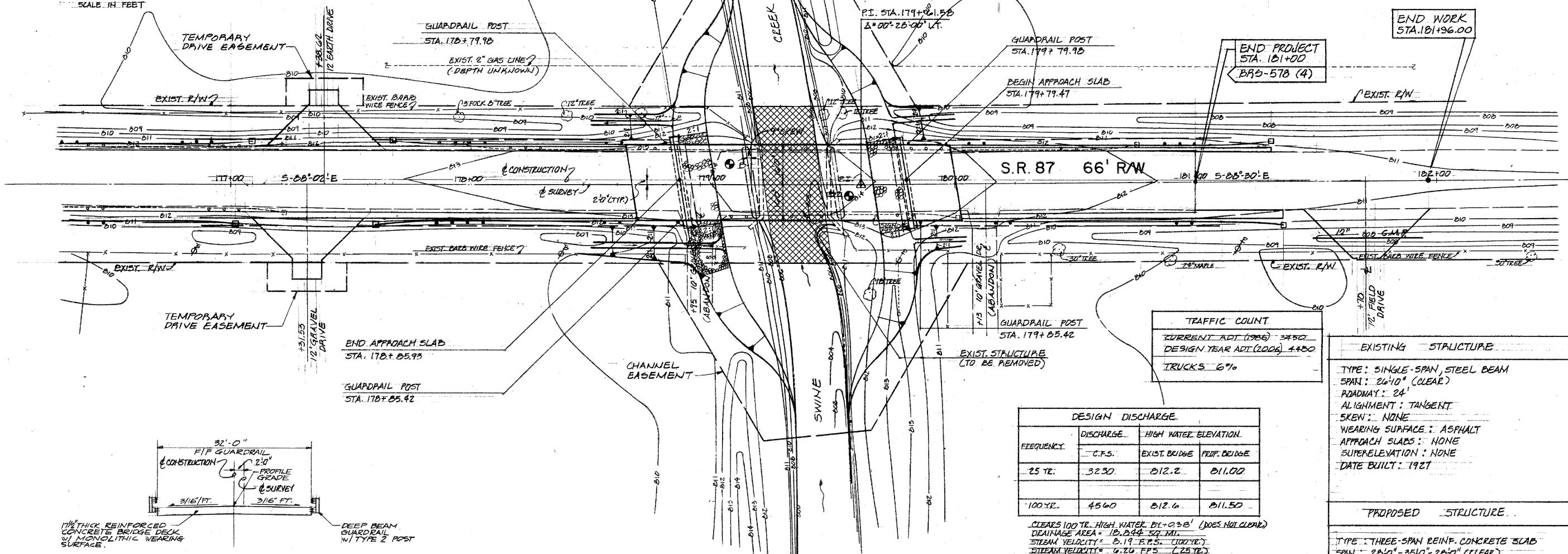
31
40

TRU-87-3.18

FOR REFERENCE ONLY (FROM ORIGINAL CONSTRUCTION PLANSET)



BENCH MARK #9 EL. = 811.68
RAILROAD SPRAE SET 7/2" UP IN NORTH
SIDE OF POWER AND TELEPHONE POLE
28' AT. & SURVEY STA. 176+84.5
(POLE NO. O.E. CO. 11794-3")



TRANSVERSE SECTION

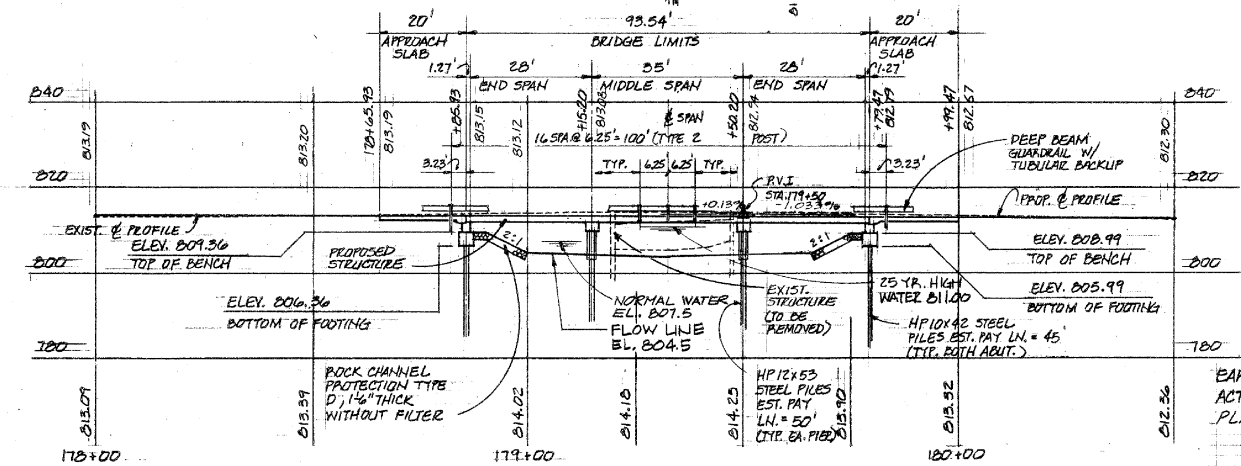
TRAFFIC COUNT

CURRENT ADT (1986)	3450
DESIGN YEAR ADT (2026)	4400
TRUCKS %	6%

DESIGN DISCHARGE

FREQUENCY	DISCHARGE		HIGH WATER ELEVATION	
	C.F.S.	EXIST. BRIDGE	EXIST. BRIDGE	PROP. BRIDGE
25 YR.	3230	812.2	811.00	
100 YR.	4560	812.6	811.50	

CLEAR 100 YR. HIGH WATER BY 0.38' (DOES NOT CLEAR)
DRAINAGE AREA = 18.844 SQ. MI.
STREAM VELOCITY = 3.19 FPS (100 YR.)
STREAM VELOCITY = 6.26 FPS (25 YR.)



VERTICAL CURVE
P.V.C. = STA. 178+00
P.V.I. = STA. 179+80
P.V.T. = STA. 181+00
G₁ = +0.15% G₂ = -1.033%
L = 300'

EARTHWORK LIMITS SHOWN ARE APPROXIMATE.
ACTUAL SLOPES SHALL CONFORM TO
PLAN CROSS SECTIONS.

EXISTING STRUCTURE

TYPE: SINGLE SPAN, STEEL BEAM
SPAN: 26'-10" (CLEAR)
ROADWAY: 24'
ALIGNMENT: TANGENT
SKEW: NONE
WEARING SURFACE: ASPHALT
APPROACH SLABS: NONE
SUPERELEVATION: NONE
DATE BUILT: 1927

PROPOSED STRUCTURE

TYPE: THREE SPAN REINF. CONCRETE SLAB
SPAN: 28'-0" - 35'-0" - 28'-0" (CLEAR)
ROADWAY: 32' F/P GUARDRAIL
ALIGNMENT: TANGENT, OFFSET 2'-0" LT.
SKEW: 9° RF
SUPERELEVATION: NONE
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-B1, 20' LONG
LOADING: HS20-44 AND ALTERNATE MILITARY LOADING

KARL R. ROHRER ASSOC., INC.
3810 RIDGEWOOD ROAD
AKRON, OHIO

SITE PLAN
BRIDGE No. TRU-87-0340
OVER
SWINE CREEK
STA. 178+85.93
STA. 179+79.47
TRUMBULL COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.F.S.	L.B.D.		G.S.	L.C.K.	7-10-86	

LEGEND

- CHANNEL CLEANOUT

STRUCTURE TRU-87-0338 PLAN SHEET (FOR REFERENCE ONLY)
TRU - SR 87

SFN 7805209
DESIGN AGENCY



DESIGNER/CHECKER
SJD MJA

REVIEWER
RAS 03-18-21

PROJECT ID
103025

SUBSET TOTAL
11 11

SHEET TOTAL
P.20 20

D04-BH-FY2022 (A)

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 9/10/2021 TIME: 8:35:22 AM USER: sdudek
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