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CULVERT FY

Available

For Location Maps, see Sheet 2.

LOCATION MAP

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CULVERT	LATITUDE	LONGITUDE
RIC-30-15.32	N 40°46'42"	W 82°26'53"
RIC-309-3.21	N 40°45′60"	W 82°40'14"

UNDERGROUND UTILITIES CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

(Non-members must be called directly)

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE 1-800-925-0988

Utilities Protection

SERVICE

Call Before You Dig 1-800-362-2764

DESIGN DESIGNATION SEE SHEET 2

DESIGN EXCEPTIONS NONE REQUIRED

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

RIC-CULVERT-FY2017

MIFFLIN TOWNSHIP SPRINGFIELD TOWNSHIP

RICHLAND COUNTY

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PROJECT DESCRIPTION

THIS PROJECT INCLUDES REPLACEMENT OF TWO CULVERTS, RIC-30-15.32 42" PIPE CULVERT UNDER LAVER ROAD AND RIC-309-3.21 9' X 4' BOX CULVERT UNDER SR 309. WORK INCLUDES REPLACEMENT OF CULVERTS, RESHAPING SLOPES, GUARDRAIL, FULL DEPTH PAVEMENT REPLACEMENT, AND RELATED MISCELLANEOUS ITEMS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:

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(Maintenance Project)

ESTIMATED CONTRACTOR EARTH DISTURBED AREAS (Maintenance Project)

NOTICE OF INTENT EARTH DISTURBED AREA:

(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.

2016 SPECIFICATIONS

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

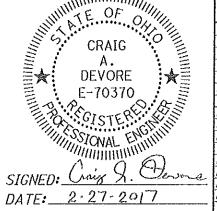
I HEREBY APPROVE THESE CONTRACT PLANS AND DECLARE THAT THE MAKING OF THIS PROPOSED IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 7 & 8.

DATE 347-17 DIRECTOR, DEPARTMENT OF TRANSPORTATION

PLANS PREPARED BY:



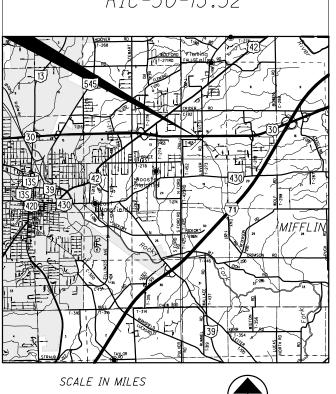
ENGINEER'S SEAL:



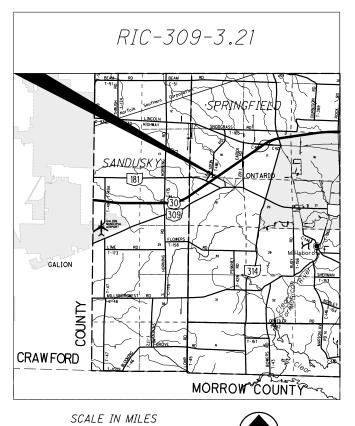
		STA	NDARD	CONSTRU	UCTIO	N. DRAW	INGS	1	LEMENTAL IFICATIONS
HW-1.1	1/18/13	TC-41.20	10/18/13					 800	1/20/17
HW-2.1	1/15/16	TC-42.20	10/18/13					 832	1/17/14
		TC-52.10	10/18/13						
DM-1.1	1/15/16	TC-52.20	7/15/16						
DM-4.3	1/15/16						ı	 <u> </u>	
DM-4.4	1/15/16								
MGS-1.1	7/19/13								
MGS-2.4	1/15/16								
MGS-4.2	7/19/13							1	PECIAL
MT-95.50	10/16/15							PRO	VISIONS
MT-97.10	7/18/14							WATERN	VAY
MT-101.70	1/17/14						ĺ	 PERMI	T 2/3/17
MT-105.10	7/19/13							CONDITI	ONS
						1		ı	

PORTION TO BE IMPROVED ______ INTERSTATE & DIVIDED HIGHWAY.________ UNDIVIDED STATE & FEDERAL ROUTES._____ OTHER ROADS CULVERT LOCATION _____

RIC-30-15.32



LATITUDE: 40°46′42″ LONGITUDE: 82°26′53″

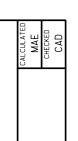


40°45′60″ LATITUDE: LONGITUDE: 82°40′14″

DESIGN DESIGNATION	RIC-30-15.32	RIC-309-3.21
CURRENT ADT (2017)	6 , 100	4,400
DESIGN YEAR ADT (2037)	6 , 600	4,400
DESIGN HOURLY VOLUME (2037)	660	400
DIRECTIONAL DISTRIBUTION	0.53	0.53
TRUCKS (24 HOUR B&C)	0.04	0.06
Td	0.04	0.03
SPEED LIMIT	55	50
DESIGN FUNCTIONAL CLASSIFICATION: F	FREEWAYS & EXPRESSWAYS	OTHER PRINCIPAL ARTER
NHS PROJECT	<i>YES</i>	NO

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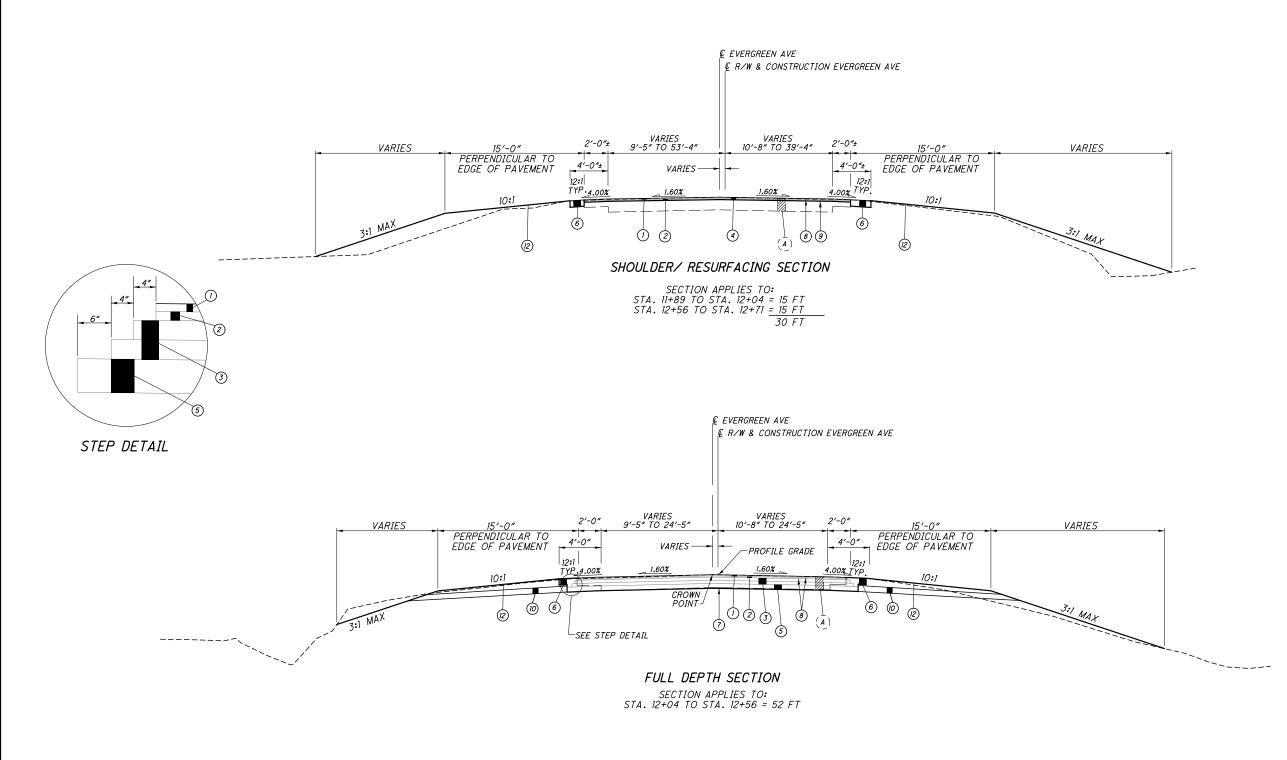
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PROPOSED LEGEND

- 1 442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN, PG64-22
- 442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN, PG64-22
- 3 301 8" ASPHALT CONCRETE BASE, PG64-22
- (4) 254 3"± PAVEMENT PLANING, ASPHALT CONCRETE
- 5) 304 6" AGGREGATE BASE

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6 304 8" AGGREGATE BASE

- (7) 204 SUBGRADE COMPACTION
- 8) 407 TACK COAT (APPLIED AT 0.06 GAL./ SY)
- (9) 407 TACK COAT (APPLIED AT 0.09 GAL./ SY)
- (10) 605 AGGREGATE DRAINS
- (11) 202 PAVEMENT REMOVED
- (12) 659 SEEDING AND MULCHING

EXISTING LEGEND

(A) 13"± ASPHALT CONCRETE

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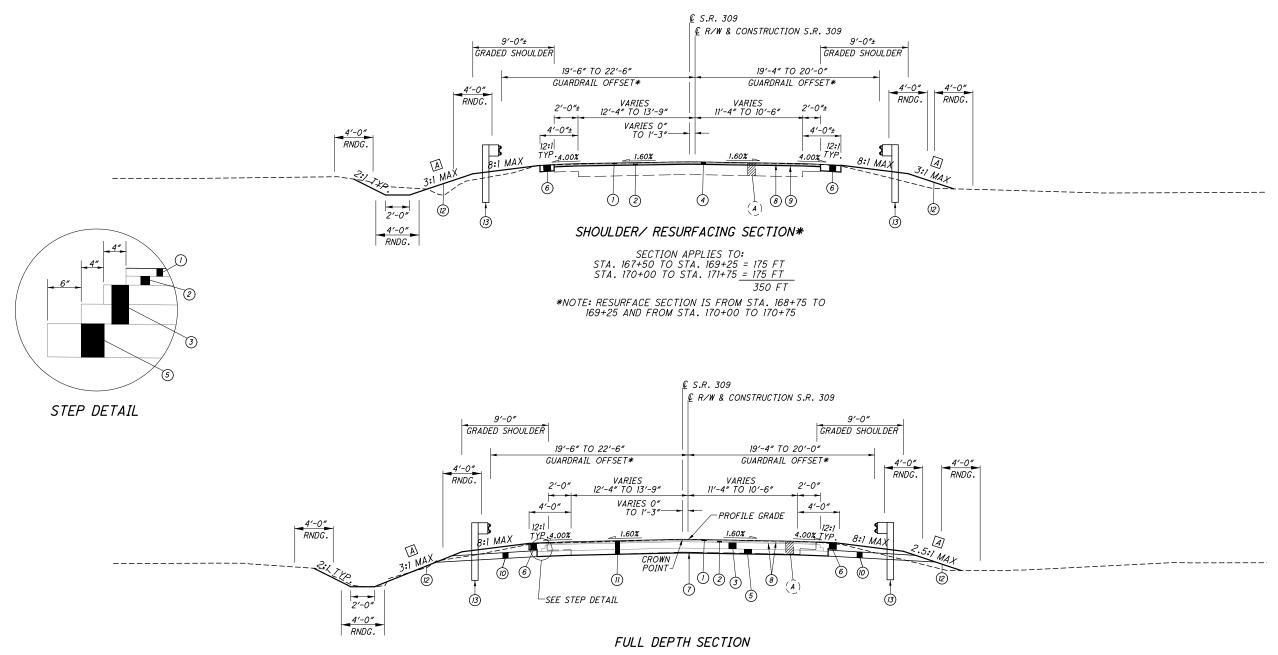
A WIDTHS & SLOPES VARY. SEE CROSS SECTIONS FOR DETAILS.

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* FACE OF GUARDRAIL TO & OF S.R. 309 SHALL REMAIN A CONSTANT 20 FEET OFFSET. FACE TO FACE OF GUARDRAIL SHALL REMAIN 40 FEET.



SECTION APPLIES TO: STA. 169+25 TO STA. 170+00 = 75 FT

PROPOSED LEGEND

- 442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN, PG64-22
 - 442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN, PG64-22
- 301 8" ASPHALT CONCRETE BASE, PG64-22
- 254 3"± PAVEMENT PLANING, ASPHALT CONCRETE
- (5) 304 6" AGGREGATE BASE
- (6) 304 8" AGGREGATE BASE

(7) 204 SUBGRADE COMPACTION

- 407 TACK COAT (APPLIED AT 0.06 GAL./ SY)
- 407 TACK COAT (APPLIED AT 0.09 GAL./ SY)
- (10) 605 AGGREGATE DRAINS
- (11) 202 PAVEMENT REMOVED
- (12) 659 SEEDING AND MULCHING
- (13) 606 GUARDRAIL, TYPE MGS

EXISTING LEGEND

(A) 12"± ASPHALT CONCRETE



UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

RIC-30-15.32

CENTURYLINK 175 ASHLAND ROAD, P.O. BOX 3555 MANSFIELD, OHIO 44907 419-755-7956

ODOT DISTRICT THREE 906 CLARK AVENUE ASHLAND, OH 44805 419-207-7045

RIC-309-3.21

CENTURYLINK 175 ASHLAND ROAD, P.O. BOX 3555 MANSFIELD, OHIO 44907 419-755-7956

COLUMBIA PIPELINE GROUP 589 N STATE ROAD MEDINA, OH 44256 330-721-4163

FRONTIER COMMUNICATIONS 1534 S.R. 511 SOUTH ASHLAND, OH 44805 419 282 6551 COLUMBIA GAS OF OHIO 1021 N. MAIN ST. MANSFIELD, OHIO 44903 419-528-1137

OHIO EDISON COMPANY 1717 ASHLAND ROAD MANSFIELD, OHIO 44905 419-521-6219

CITY OF MANSFIELD 30 N DIAMOND STREET MANSFIELD, OH 44902 419-755-9626

COLUMBIA GAS OF OHIO 1021 N. MAIN ST. MANSFIELD, OHIO 44903 419-528-1137

TIME WARNER CABLE 5520 WHIPPLE AVENUE NW NORTH CANTON, OH 44720 330-494-9200

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY.
PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL
DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

EXISTING PLANS

EXISTING PLANS ENTITLED RIC-30-15.24 AND RIC-309-3.79 MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND, OHIO.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES NO. TREES NO. STUMPS TOTAL
20" 1 0 1

SURVEYING PARAMETERS (RIC-309)

USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOIDI2A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(NA2011)

ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC

COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE (3401) SCALED BY A

COMBINED GRID SCALE AND ELEVATION PROJECT ADJUSTMENT

FACTOR ABOUT THE GRID ORIGIN N=0, E=0 COORDINATE

COMBINED SCALE FACTOR: UNITLESS GRID TO PROJECT ADJUSTMENT FACTOR (PAF)

MULTIPLIER = 1.000104280. GRID (METERS) TO PROJECT

PROJECT COORDINATE UNITS ARE IN U.S. SURVEY FEET, GRID COORDINATE UNITS
ARE IN METERS.

USE THE FOLLOWING CONVERSION FACTOR:

(U.S. SURVEY FEET) MULTIPLIER = 3.281175459

USE THE FOLLOWING CONVERSION FACTOR:

1 METER = 39.37 INCHES = 3.28083333333 U.S. SURVEY FEET.

SURVEYING PARAMETERS (RIC-30)

USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOIDI2A

HORIZONTAL POSITIONING REFERENCE FRAME: NAD83(NA2011) ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC

COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE (3401) SCALED BY A

COMBINED GRID SCALE AND ELEVATION PROJECT ADJUSTMENT
FACTOR ABOUT THE GRID ORIGIN N=0, E=0 COORDINATE

COMBINED SCALE FACTOR: UNITLESS GRID TO PROJECT ADJUSTMENT FACTOR (PAF)

MULTIPLIER = 1.000105582. GRID (METERS) TO PROJECT

(U.S. SURVEY FEET) MULTIPLIER = 3.281179730

PROJECT COORDINATE UNITS ARE IN U.S. SURVEY FEET, GRID COORDINATE UNITS

USE THE FOLLOWING CONVERSION FACTOR:

1 METER = 39.37 INCHES = 3.28083333333 U.S. SURVEY FEET.

EXISTING UNDERDRAINS

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

PROJECT QUANTITIES SHALL BE DETERMINED BY THE PROJECT PERSONNEL AND WILL BE PAID FOR AS A CHANGE ORDER TO THE PROJECT.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPUTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ENVIRONMENTAL COMMITMENTS

1. THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL I THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER I 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.

2. THE PROJECT IS LOCATED WITHIN A REGULATED FLOODPLAIN. A FLOODPLAIN COORDINATION WILL BE COMPLETED BY ODOT PRIOR TO CONSTRUCTION.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE. 9.5MM. TYPE A (448). AS PER PLAN

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS: MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. MINIMUM TOTAL PG BINDER CONTENT IS 6.0 PERCENT. USE A PG 64-22 BINDER.

MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 20 PERCENT.
WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE
AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED
FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE
PAVEMENT FRICTION IN SURFACE PAVEMENT.

QUALITY CONTROL: DO NOT PERFORM NMMAX IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.



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ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

PROJECT QUANTITIES SHALL BE DETERMINED BY THE PROJECT PERSONNEL AND WILL BE PAID FOR AS A CHANGE ORDER TO THE PROJECT.

<u> ITEM 614 - MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)</u>

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
EASTER THANKSGIVING
MEMORIAL DAY

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 THE TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY
12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY
12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY
12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY
THURSDAY
12:00N TUESDAY THROUGH 6:00 AM HONDAY
FRIDAY
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 FEE OF \$1000 PER DAY.

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TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON STRUCTURE RIC-30-15.32 WILL BE DETOURED AS SHOWN ON THIS SHEET FOR A MAXIMUM OF 21 CONSECUTIVE CALENDAR DAYS. THE 21 DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 21 DAYS THAT THE HIGHWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE OF \$1000 PER DAY. DETOUR SIGNING SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY THE ROADWAY SERVICES MANAGER IN WRITING A MINIMUM OF 14 DAYS IN ADVANCE OF THE DETOUR BEING PLACED.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE

TOWNSHIP TRUSTEES (TWP. ROADS ONLY) LOCAL FIRE DEPARTMENT(S) LOCAL SCHOOL DISTRICT(S) COUNTY SHERIFF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

THE ROADWAY SHALL NOT BE CLOSED TO TRAFFIC FOR REMOVAL OR MODIFICATION OF THE EXISTING STRUCTURE OR CONDUIT UNTIL ALL NEW PRECAST STRUCTURE MATERIALS (EG: PRESTRESSED BEAMS, BOXES, CONDUITS, ETC.) NECESSARY TO PLACE THE ROADWAY BACK IN SERVICE HAVE BEEN TESTED, APPROVED AND ARE READY FOR DELIVERY TO THE SITE.

PROJECT DETOUR LIMITATIONS

THE ROADWAY SHALL NOT BE CLOSED TO TRAFFIC FOR THE REMOVAL OR MODIFICATION OF THE EXISTING STRUCTURE, CONDUIT, OR PARTS OF THE STRUCTURE UNTIL PRECAST STRUCTURAL MATERIALS (EG.: CONDUIT, HEADWALLS, ETC.) NECESSARY TO PLACE THE ROADWAY BACK INTO SERVICE HAVE BEEN TESTED, APPROVED AND ARE READY FOR DELIVERY TO THE PROJECT SITE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

MAINTENANCE OF DETOUR ROUTE

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THE ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER. THE DESIGNATED DETOUR ROUTE IS TO BE REVIEWED AND REPAIRED PRIOR TO THE ASPHALT CONTRACTOR OR SUBCONTRACTOR LEAVING THE PROJECT.

PAYMENT FOR THE WORK NECESSARY TO REPAIR THE DETOUR ROUTE WILL BE PERFORMED BY CHANGE ORDER.

R11-4

DETOUR | M4-8-24

TOWNSHIP

M1-H6B-24

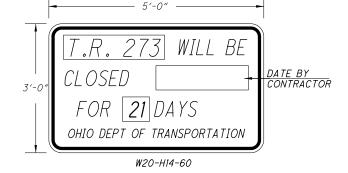
ROAD CLOSED

THRU TRAFFIC

TYPE III BARRICADES

NOTICE OF CLOSURE SIGNS

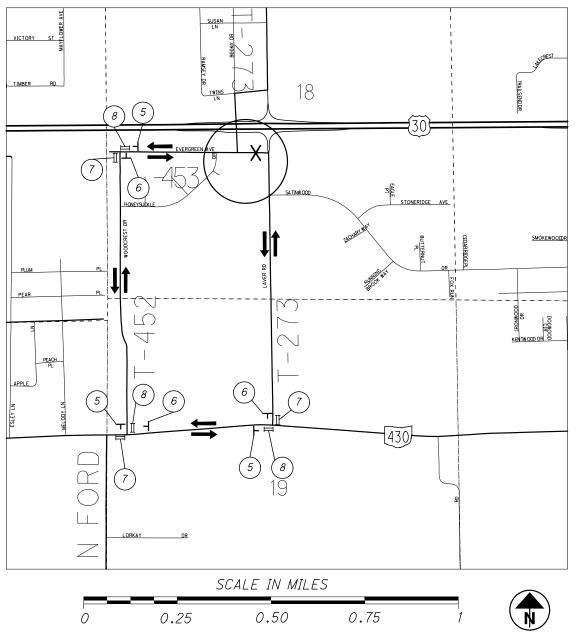
THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR LAVER RD. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE SIGNS INCLUDING



DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

ITEM 614, DETOUR SIGNING - LUMP



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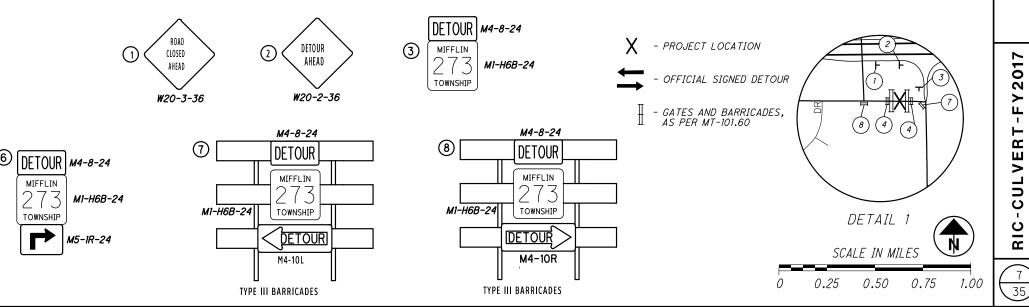
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STATE DETOUR MAP

SIGN LEGEND



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TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT THROUGH TRAFFIC ON STRUCTURE RIC-309-3.21 WILL BE DETOURED AS SHOWN ON THIS SHEET FOR A MAXIMUM OF 21 CONSECUTIVE CALENDAR DAYS. THE DETOUR CAN NOT BEGIN UNTIL AFTER LABOR DAY OF 2017. THE 21 DAYS SHALL BE CONSIDERED AS AN INTERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 21 DAYS THAT THE HIGHWAY REMAINS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE OF \$1000 PER DAY. DETOUR SIGNING SHALL BE INSTALLED, MAINTAINED, AND REMOVED

THE CONTRACTOR SHALL NOTIFY THE ROADWAY SERVICES MANAGER IN WRITING A MINIMUM OF 14 DAYS IN ADVANCE OF THE DETOUR BEING PLACED.

THE CONTRACTOR SHALL ALSO NOTIFY, IN WRITING, THE FOLLOWING AGENCIES AT LEAST 14 DAYS PRIOR TO THE TIME WHEN THE DETOUR WILL BE

TOWNSHIP TRUSTEES (TWP. ROADS ONLY) LOCAL FIRE DEPARTMENT(S) LOCAL SCHOOL DISTRICT(S) COUNTY SHERIFF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE END OF THE WORK AREA AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60.

THE ROADWAY SHALL NOT BE CLOSED TO TRAFFIC FOR REMOVAL OR MODIFICATION OF THE EXISTING STRUCTURE OR CONDUIT UNTIL ALL NEW PRECAST STRUCTURE MATERIALS (EG: PRESTRESSED BEAMS, BOXES, CONDUITS, ETC.) NECESSARY TO PLACE THE ROADWAY BACK IN SERVICE HAVE BEEN TESTED, APPROVED AND ARE READY FOR DELIVERY TO THE SITE.

PROJECT DETOUR LIMITATIONS

THE ROADWAY SHALL NOT BE CLOSED TO TRAFFIC FOR THE REMOVAL OR MODIFICATION OF THE EXISTING STRUCTURE, CONDUIT, OR PARTS OF THE STRUCTURE UNTIL PRECAST STRUCTURAL MATERIALS (EG.: CONDUIT, HEADWALLS, ETC.) NECESSARY TO PLACE THE ROADWAY BACK INTO SERVICE HAVE BEEN TESTED, APPROVED AND ARE READY FOR DELIVERY TO THE PROJECT SITE.

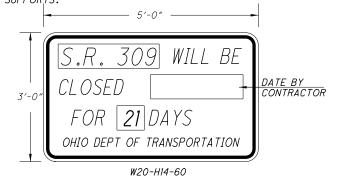
SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

DETOUR SIGNING

THE FOLLOWING QUANTITY IS INCLUDED FOR THE CONTRACTOR TO PROVIDE THE DETOUR SIGNING AS SHOWN AS PER 614.06 (B):

NOTICE OF CLOSURE SIGNS

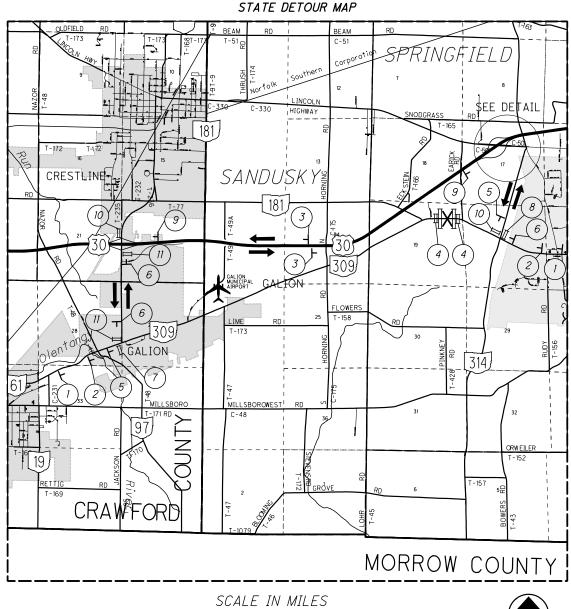
THESE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR S.R. 309. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE LOCATED IN THE FIELD SO AS NOT TO INTERFERE WITH ANY PERMANENT SIGNS. ON THIS PROJECT THEY SHOULD BE ERECTED AT THE PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE SIGNS INCLUDING



MAINTENANCE OF DETOUR ROUTE

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THE ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER. THE DESIGNATED DETOUR ROUTE IS TO BE REVIEWED AND REPAIRED PRIOR TO THE ASPHALT CONTRACTOR OR SUBCONTRACTOR LEAVING THE PROJECT.

PAYMENT FOR THE WORK NECESSARY TO REPAIR THE DETOUR ROUTE WILL BE PERFORMED BY CHANGE ORDER.



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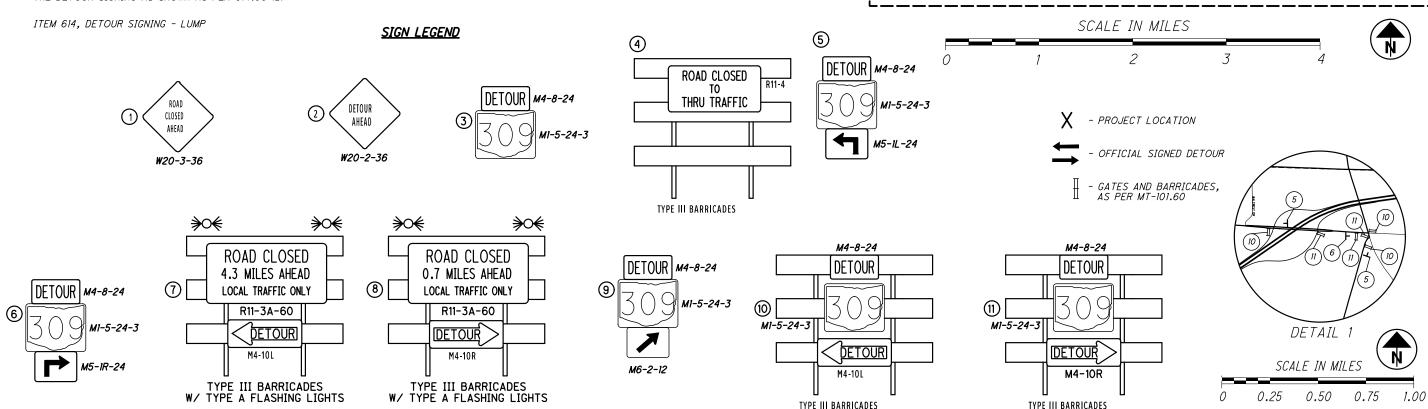
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			SH.	EET NUI	М.	,		PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	
	8	11	14	24	26		01/NHS/CV	02/S<2/CV	112.	EXT	TOTAL		DECOMM TION	SHEE'
+													ROADWAY	
					LS		LS	LS	201	11000	LS		CLEARING AND GRUBBING	
		234		189			189	234	202	23000	423	SY	PAVEMENT REMOVED	
		425 3						425	202	38000 42010	425	FT EACH	GUARDRAIL REMOVED ANCHOR ASSEMBLY REMOVED, TYPE E	
		1						1 1	202	42040	1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
					10		10	38	203	10000	48	CY	EXCAVATION	
					10		10	190	203	20000	200	CY	EMBANKMENT TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYP	
-		400 25						400	606 606	15050	400	FT FT	GUARDRAIL, TYPE MGS GUARDRAIL, TYPE MGS WITH SOCKETED POSTS	
		3						25 3	606	15350 26150	25 3	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
								<u> </u>		20100	3	LACIT	AND ASSEMBLY, MOSTITE E	
		1						1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
		12						12	626	00102	12	EACH	BARRIER REFLECTOR, TYPE 1, 1 WAY	
													FROCION CONTROL	
_			8					8	601	32100	8	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
		40	0	46			46	40	605	31100	86	FT	AGGREGATE DRAINS	
		2		2			2	2	659	00100	4	EACH	SOIL ANALYSIS TEST	
		128		25			25	128	659	00300	153	CY	TOPSOIL	
				226			226	1,149	659	10000	1,375	SY	SEEDING AND MULCHING	
		F.7		11			11	F.7	650	14000	CO	CV	DEDATO CEEDING AND MILLOUING	
		57 57		11			11	57 57	659 659	14000 15000	68 68	SY SY	REPAIR SEEDING AND MULCHING INTER-SEEDING	
		0.17		0.03			0.03	0.17	654	11000	0.2	TON	COMMERCIAL FERTILIZER	
		0.24		0.05			0.05	0.24	659	31000	0.29	ACRE	LIME	
		6.35		1.25			1.25	6.35	659	35000	7.6	MGAL	WATER	
													DAVENENT	
		253		189			189	253	204	10000	442	SY	PAVEMENT SUBGRADE COMPACTION	
		389		158			158	389	254	01000	547	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3"	
		54		42			42	54	301	46000	96	CY	ASPHALT CONCRETE BASE, PG64-22	
		72		40			40	72	304	20000	112	CY	AGGREGATE BASE	
		90		42			42	90	407	10000	132	GAL	TACK COAT	
		52		29			29	52	442	10501	81	CY	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN	3
		- 02						"		10001	0,		The fine condities confide condition and the first term	
													STRUCTURE 20 FOOT SPAN AND UNDER (RIC-309-3.21)	
			LS					LS	202	11001	LS		STRUCTURE REMOVED, AS PER PLAN	15
			LS LS					LS	503 503	11100 21300	LS LS		COFFERDAMS AND EXCAVATION BRACING UNCLASSIFIED EXCAVATION	
			3,149					3,149	509	10000	3,149	LB	EPOXY COATED REINFORCING STEEL	
			9					9	511	46010	9	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
			14					14	511	46510	14	CY	CLASS QC1 CONCRETE, FOOTING	
-			2 38					2	511 512	46610 10100	2	CY SY	CLASS QC1 CONCRETE, HEADWALL SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
			52					38 52	512	33000	38 52	SY	TYPE 2 WATERPROOFING	
			56					56	512	33010	56	SY	TYPE 3 WATERPROOFING	
			32					32	516	13600	32	SF	1" PREFORMED EXPANSION JOINT FILLER	
			LS					LS	518	21230	LS	F.T.	POROUS BACKFILL WITH GEOTEXTILE FABRIC	15
			40					40	611	97400	40	FT	CONDUIT, MISC.: 9' X 5' CONDUIT, TYPE A, 706.05	15
													STRUCTURE 20 FOOT SPAN AND UNDER (RIC-30-15.32)	
					2		2		202	20010	2	EACH	HEADWALL REMOVED	
					108		108		202	35200	108	FT	PIPE REMOVED, OVER 24"	
					LS		LS		503	11100	LS	0.7	COFFERDAMS AND EXCAVATION BRACING	
					108		108		602 611	20000 19400	108	CY FT	CONCRETE MASONRY 42" CONDUIT, TYPE B	
					100		100		011	13400	100	'''	12 CONDUIT, THE B	
													MAINTENANCE OF TRAFFIC	
	LS						LS	LS	614	12420	LS		DETOUR SIGNING	
				+				 						
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		SHEET NUM.		_	PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	ULATED IAE ECKED				
	7	8	11	14	24	26		01/NHS/	V 02/S<2/C	′	11 - W	EXT	TOTAL	ONT	DESCRIPTION	NO.	CALC
															TRAFFIC CONTROL		
			4						4 4		621 621	00100 54000	4 4		RPM RAISED PAVEMENT MARKER REMOVED	·	
			0.08		0.03			0.03	0.08		642	00104	0.11	MILE	EDGE LINE, 6", TYPE 1		
			0.04		0.02			0.02	0.04		642	00300	0.06	MILE	CENTER LINE, TYPE 1		
\bigcirc															INCIDENTALS		
\bigcirc								LS 2	LS 2		614 619	11000 16000	LS 4		MAINTAINING TRAFFIC FIELD OFFICE, TYPE A		-
								LS	LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
								LS	LS		624	10000	LS		MOBILIZATION		
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	PAVEMENT TABLE												
		202	204	254	301	30	04	40	07	442			
LOCATION		PAVEMENT REMOVED	SUBGRADE COMPACTION	PAVEMENT PLANING, ASPHALT CONCRETE (3.0")	ASPHALT CONCRETE BASE, PG64-22 (T=8″)	AGGREGATE BASE (T=6")	AGGREGATE BASE (T=8")	TACK COAT (0.06 GAL./SY)	TACK COAT (0.09 GAL./SY)	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A, (448), AS PER PLAN (T=3") (MINIMUM 2-LIFTS)			
STATION	FT	SY	SY	SY	CY	CY	CY	GAL	GAL	CY			
167+50 TO 168+00	50						2.5						
168+00 TO 168+75	75						7.4						
168+75 TO 169+25	50			155.6			4.9	9.3	14.0	13.0			
169+25 TO 170+00	75	233.3	252.8		53.7	42.1	7.4	28.0		19.4			
170+00 TO 170+75	75			233.3			7.4	14.0	21.0	19.4			
170+75 TO 171+75	100						4.9						
ADD. FOR DRIVE			56.0			3.3		3.4		4.7			
TOTALS TO GENERAL S	SUMMARY	234	253	389	54	7	72	s	00	52			

						ROADWA	4 <i>Y</i>						
						202				606			626
REFERENCE NO.	SHEET NO.	LOCA	TION	SIDE	GUARDRAIL REMOVED	GUARDRAIL ASSEMBLY REMOVED, TYPE E	GUARDRAIL ASSEMBLY REMOVED, TYPE I	GUARDRAIL, TYPE MGS	GUARDRAIL, TYPE MGS WITH SOCKETED POSTS		ANCHOR ASSEMBLY, MGS TYPE E	ANCHOR ASSEMBLY, MGS TYPE T	BARRIER REFLECTOR, TYPE I (IWAY)
		FROM	TO		FT	EACH	EACH	FT	FT		EACH	EACH	EACH
R2		168+30.90	168+80.90	LT							1		
R1		168+80.90	169+55.90	LT				75					
R3		169+55.90	169+68.40	LT	225	2			12.5				7
R1		169+68.40	171+05.90	LT				137.5					
R2		171+05.90	171+55.90	LT							1		
R2		167+68.30	168+18.30	RT							1		
R1		168+18.30	169+55.80	RT]			137.5					
R3		169+55.80	169+68.30	RT	200	,	,		12.5				_
R1		169+68.30	170+05.80	RT	200	'	/	37.5					5
R4		170+05.80	170+18.30	RT	1							1	
R1*		170+	18.29	RT				12.5					
R1*: RADI	IUS = 15'												
	TOTAL	S TO GENERAL	. SUMMARY		425	3	1	400	25		3	1	12

ITEM 659 - SOIL ANALYSIS TEST

128 c.y. x 1 test/10000 c.y.= 0.013 EACH

2 EACH (Minimum of 2 tests)

ITEM 659 - TOPSOIL

1149 s.y. x 111 c.y./1000 s.y. = 127.54 cu. yd. 128 CY

ITEM 659 - REPAIR SEEDING AND MULCHING

57 SY 1149 s.y. x 0.05 = 57.45 sq. yd.

ITEM 659 - INTER-SEEDING

1149 s.y. \times 0.05 = 57.45 sq. yd. 57 SY

ITEM 659 - COMMERCIAL FERTILIZER

1149 s.y. x 9 x 30 lbs/1000 s.f. / 2000 lb./ton = 0.16 TON

(FOR INTER-SEEDING)

57 s.y. x 9 x 20 lbs/1000 s.f. / 2000 lb./ton = _____0.005 TON

COMMERCIAL FERTILIZER TOTAL 0.17 TON

ITEM 659 - LIME

1149 s.y. x (9 s.f./s.y.) / (43,560 s.f./acre) = 0.24 ACRES

ITEM 659 - WATER

1149 s.y. x 9 x 300 gal/1000 s.f. x 2 app./1000 s.f. =6.20 M. GAL.

WATER (FOR INTER-SEEDING)

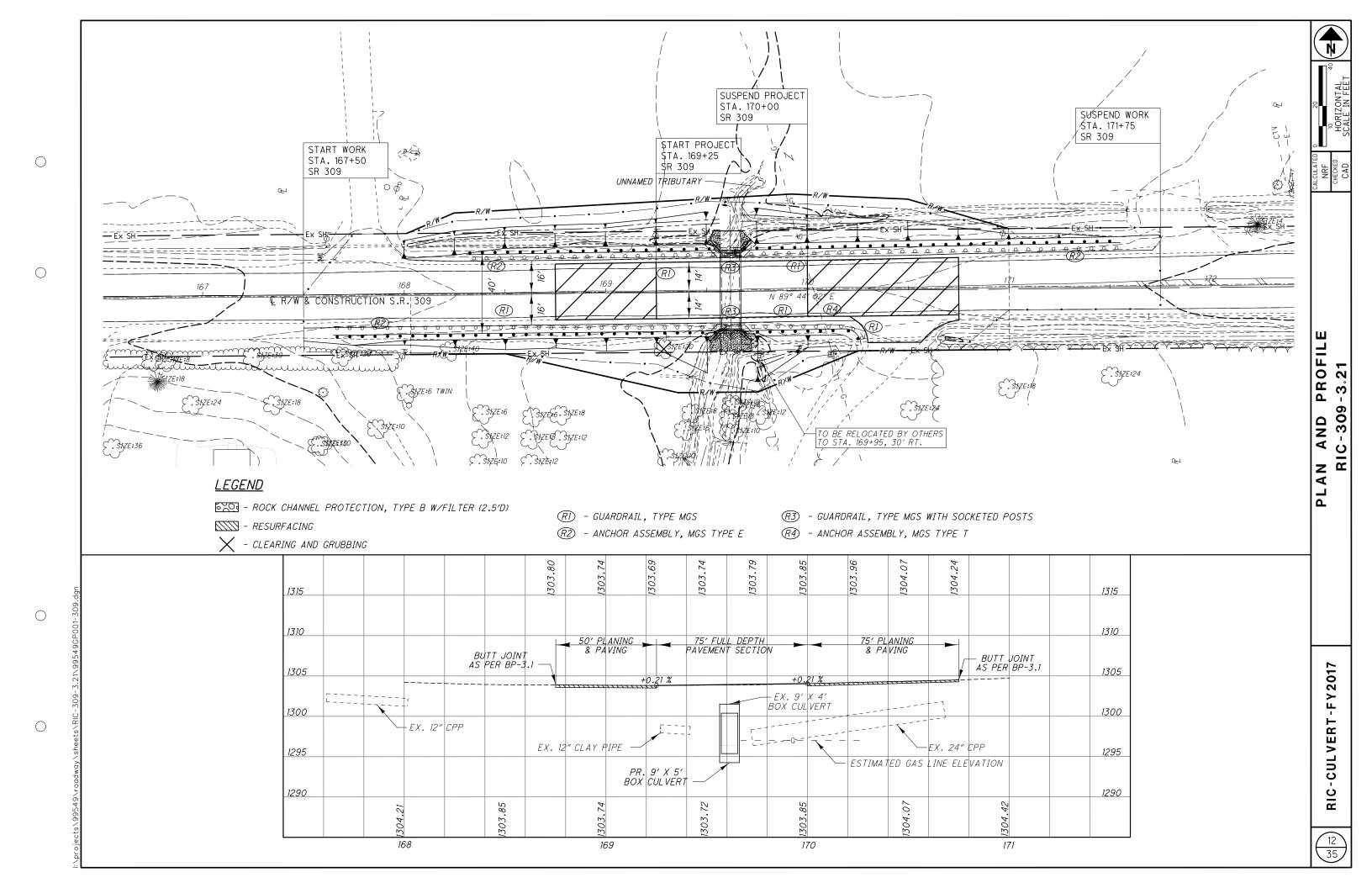
57 s.y. x 9 x 300 gal/ 1000 s.f. x 1 app./1000 s.f. = 0.15 M. GAL.

WATER TOTAL

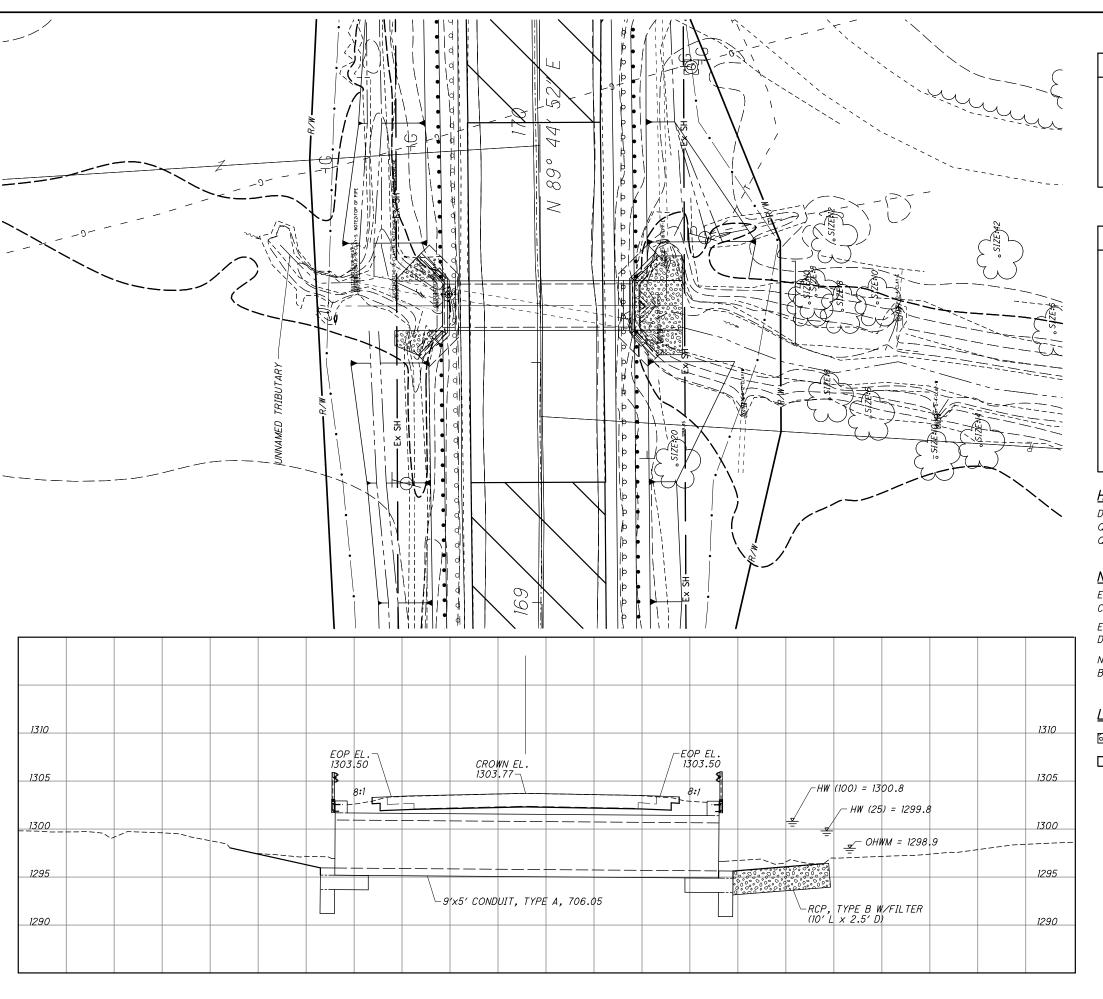
6.35 M. GAL.

PAVEMENT MARKING										
	6.	42	6.	21						
LOCATION	EDGE LINE, 4", TYPE 1	CENTERLINE, TYPE 1	RAISED PAVT. MARKER REMOVED	RPM (YELLOW/ YELLOW)						
	MILE	MILE	EACH	EACH						
STATION										
168+75 TO 170+75	0.08	0.04	4	4						
· · · · · · · · · · · · · · · · · · ·										
TOTALS TO GEN. SUM.	0.08	0.04	4	4						

AGGREGATE	DRAINS	
	605	605
LOCATION	AGGREGA TE DRAINS	AGGREGA TE DRAINS
	LEFT	RIGHT
	FT	FT
STATION		
169+25	10	
169+50		10
169+75	10	
170+00		10
TOTALS TO GEN. SUM.	4	0



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EXISTING STRUCTURE

TYPE: CONRETE BOX SPANS: 9' X 4'

SKEW: 0°

ALIGNMENT: TANGENT DATE BUILT: UNKNOWN

DISPOSITION: POOR

PROPOSED STRUCTURE

TYPE: PRECAST REINFORCED CONCRETE FOUR-SIDED BOX

CULVERT FILE NUMBER: TBD

DESIGN SERVICE LIFE: 50 YEARS

SPANS: 9' X 5'

ROADWAY: 32'-0" GRADED SH. TO GRADED SH.

SKEW: 0°

ALIGNMENT: TANGENT

STREAM: ABRASIVE

pH = 6.8

COORDINATES: LATITUDE N 40° 45′ 60" LONGITUDE W 82° 40' 14"

HYDRAULIC DATA

DRAINAGE AREA = 538 ACRES

Q (25) = 185.94 CFS V (25) = 13.38 FT/S Q (100) = 243.38 CFS V (100) = 14.31 FT/S

NOTES

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

EXISTING STRUCTURE TO BE REMOVED. ROAD TO BE CLOSED DURING CONSTRUCTION AND TRAFFIC TO BE DETOURED.

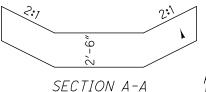
NO BUILDINGS, RESIDENCES OR BUSINESS ESTABLISHMENTS LAY IN THE BASE FLOOD PLAIN, AND NO FLOOD HAZARD EXISTS.

LEGEND

- ROCK CHANNEL PROTECTION, TYPE B W/FILTER (2.5'D)

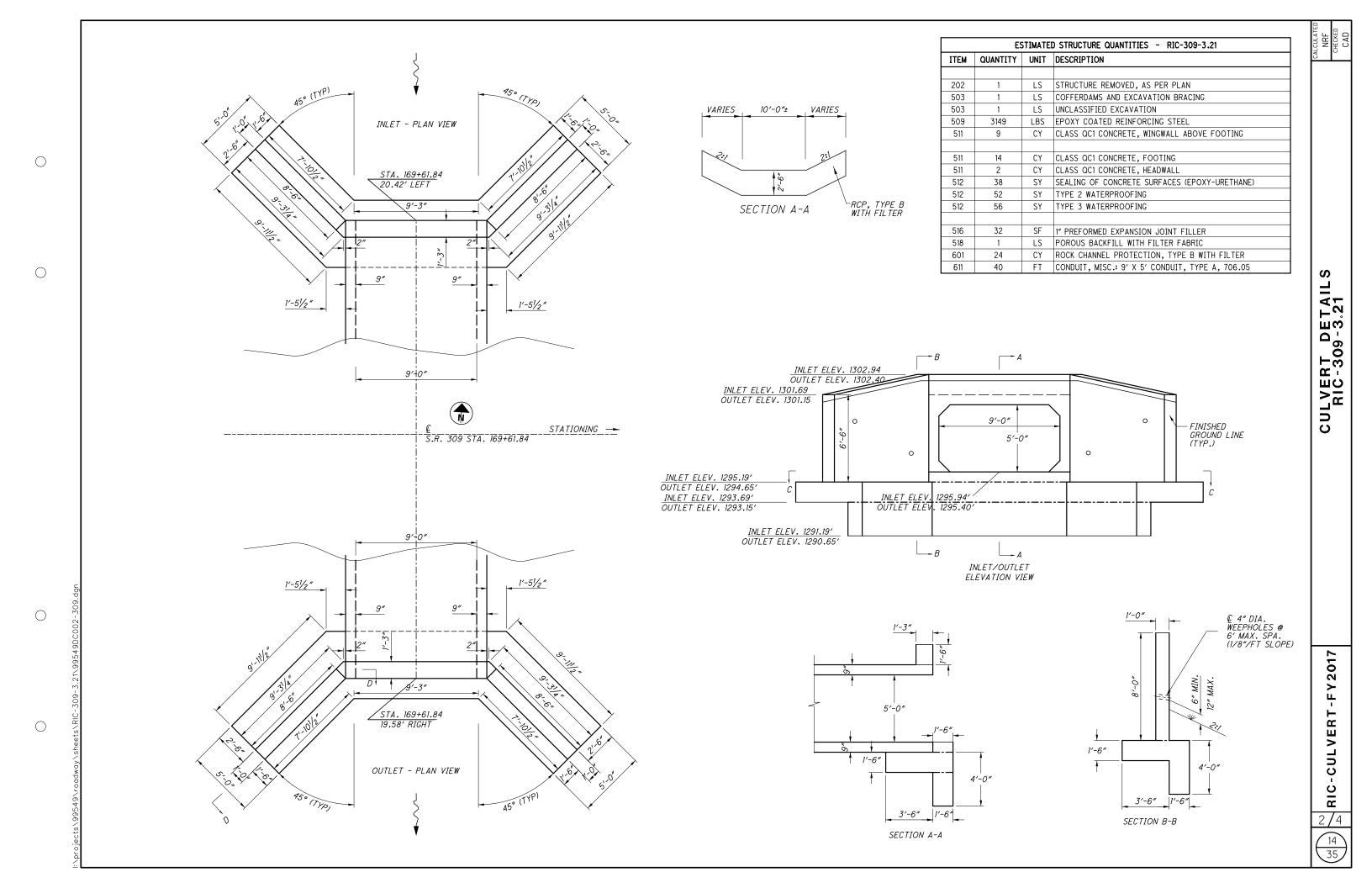
- PAVEMENT PLANING

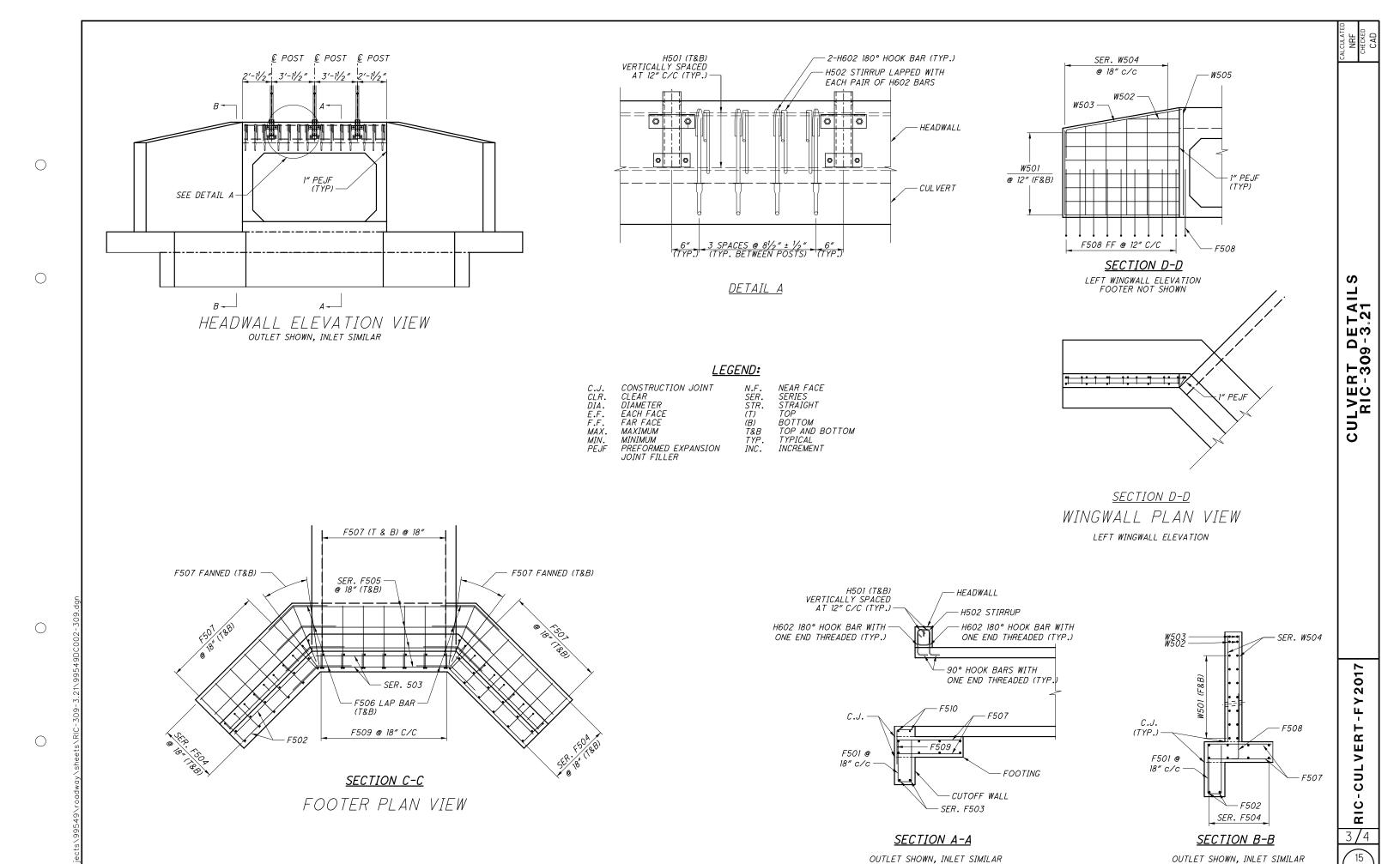
VARIES 9'-3"± VARIES



RCP, TYPE B WITH FILTER



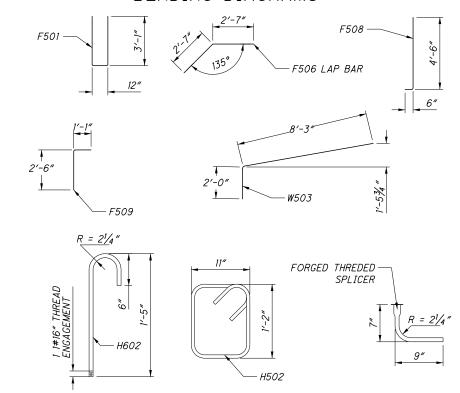




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MARK	NO. REQ. PER END	LENGTH	WEIGHT PER END	TOTAL WEIGHT	TYPE			
		FOC	TER					
F501	19	6'-11''	137.05	274.10	BENT			
F502	4	7'-9''	32.33	64.66	STR			
F503	1 SERIES	9'-6''	20.25	40.50	STR			
1 303	OF TWO	9'-11''	20.23	40.50	3111			
F504	4 SERIES	7′-9′′	144.63	289.26	STR			
1 30 1	OF FOUR	9′-7′′	111.03	200,20	3110			
F505	2 SERIES	9'-6''	94.56	189.12	STR			
1 303	OF FOUR	13'-2''	34.30	100.12	3110			
F506	20	5′-2′′	107.76	215.52	BENT			
F507	50	4'-6''	234.68	469.36	STR			
F508	20	4'-11''	102.55	205.10	BENT			
F509	14	3'-6''	51.11	102.22	BENT			
F510	2	9'-2''	19.12	38.24	STR			
TOTAL	WEIGHT (FC	OTER)	944.04	1888.08				
		HEAD	VALLS					
H501	4	10'-0''	41.72	83.44	STR			
H502	14	3'-9''	54.76	109.52	BENT			
H602	20	1'-8''	49.98	99.96	BENT			
TOTAL N	WEIGHT (HEA	DWALLS)	146.46	292.92				
			•					
		WING	VALLS					
W501	28	8'-3''	240.93	481.86	STR			
W502	4	3'-9''	15.65	31.30	STR			
W503	4	10'-3''	42.76	85.52	BENT			
WEOA	4 SERIES	6'-0''	160.07	777 04	CTD			
W504	OF SIX	7′-6′′	168.97	337.94	STR			
W505	2	7′-6′′	15.65	31.30	STR			
TOTAL \	WEIGHT (WIN	GWALLS)	483.96	967.92				
TOTAL	. WEIGHT PE	R END	1574.46					
	WEIGHT CARI IERAL SUMM			3149				

BENDING DIAGRAMS



DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2014, INCLUDING THE 2012 AND 2013 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN DATA

THE FOLLOWING DESIGN DATA IS ASSUMED TO BE: INTERNAL ANGLE OF FRICTION (\$\phi\$) = 30 DEGREES COEFFICIENT OF FRICTION $(\phi) = 0.30$ UNIT WEIGHT OF SOIL = 120 PCF UNIT WEIGHT OF REINFORCED CONCRETE = 150 PCF SLOPE OF BACKFILL = 3:1 MAXIMUM FOUNDATION BEARING PRESSURE = 2000 PSF

CLASS QC1 CONCRETE (FOOTING, WINGWALL AND HEADWALL): 4.0 KSI COMPRESSIVE STRENGTH

REINFORCING STEEL: ASTM A615, A616, OR A617 GRADE 60 MINIMUM YIELD STRENGTH 60 KSI (ALL REINFORCING STEEL SHALL BE EPOXY COATED)

HEADWALL

FOR ADDITIONAL DETAILS NOT SHOWN IN THE PLANS, REFER TO STANDARD CONSTRUCTION DRAWING MGS-2.4, MIDWEST GUARDRAIL SYSTEM SOCKETED WEAK POST ATTACHED TO HEADWALL.

PAYMENT FOR THE #6 90° HOOK BARS SHALL BE INCLUDED IN THE CULVERT 611 PAY ITEM. ALL OTHER HEADWALL REINFORCEMENT SHALL BE PAID FOR WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

POROUS BACKFILL WITH FILTER FABRIC

POROUS BACKFILL WITH FILTER FABRIC 2'-0" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

WEEPHOLES SHALL BE PLACED 6" - 12" ABOVE THE NORMAL WATER ELEVATION OR GROUND LINE AND SHALL HAVE A MAXIMUM SPACING OF 10'-0". A MINIMUM OF ONE WEEPHOLE SHALL BE PROVIDED PER WINGWALL, PLACE 2 CUBIC FEET OF BAGGED NO. 3 AGGREGATE AT EACH WEEP HOLE TO RETAIN THE POROUS BACKFILL.

ITEM 202 - STRUCTURE REMOVED, AS PER PLAN

WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC, THE EXISTING STRUCTURE SHALL BE REMOVED UPON RECEIVING PERMISSION FROM THE ENGINEER.

ITEM 503 - UNCLASSIFIED EXCAVATION (WINGWALL/FOOTING)

EXCAVATION LIMITS FOR THE PROPOSED STRUCTURE SHALL BE AS DEFINED IN 503. EXCAVATION OUTSIDE THESE LIMITS NECESSARY TO REMOVE THE EXISTING STRUCTURE OR INSTALL THE PROPOSED STRUCTURE SHALL BE INCLUDED IN ITEM 202 - STRUCTURE REMOVED AND ALL NECESSARY 511 OR 611 ITEMS.

ITEM 611 - CONDUIT, MISC .: 9'X5' CONDUIT, TYPE A , 706.05

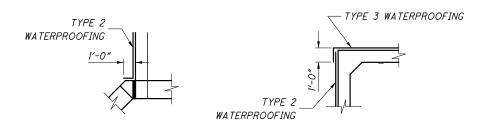
ALL REQUIREMENT OF 706.05 AND ASTM C 1577 SHALL BE MET. CONDUIT SHALL BE 9' SPAN AND 5' RISE. BACK FILLING MATERIALS AND INSTALLATION PROCEDURE SHALL BE IN ACCORDANCE WITH 611.06.

PAYMENT FOR ALL NECESSARY LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE BID FOR ITEM 601 -CONDUIT, MISC .: 9'X5' CONDUIT, TYPE A, 706.05.

WATERPROOFING

TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PROTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29, SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT (12") VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.



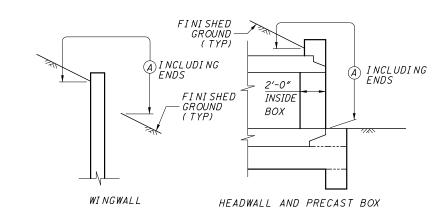
WATERPROOFING DETAILS

SECTION VIEW

SEALING HEADWALL AND WINGWALLS

PLAN VIEW

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SLEALER SHALL BE PER ITEM 512 -SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).



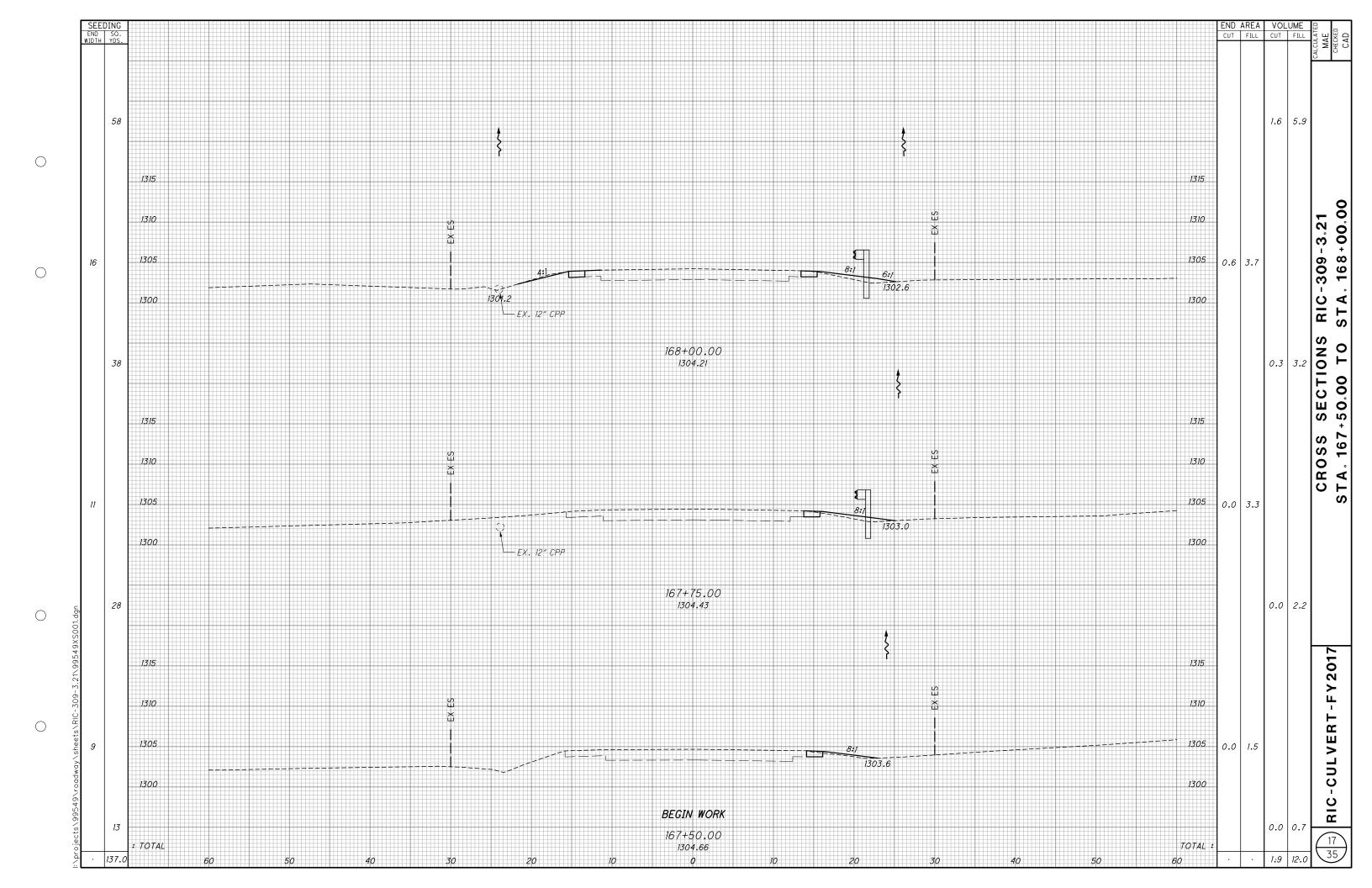
LIMITS OF ITEM 512-SEALING CONCRETE SURFACES (A) - SEAL ENTIRE CONCRETE SURFACE AREA

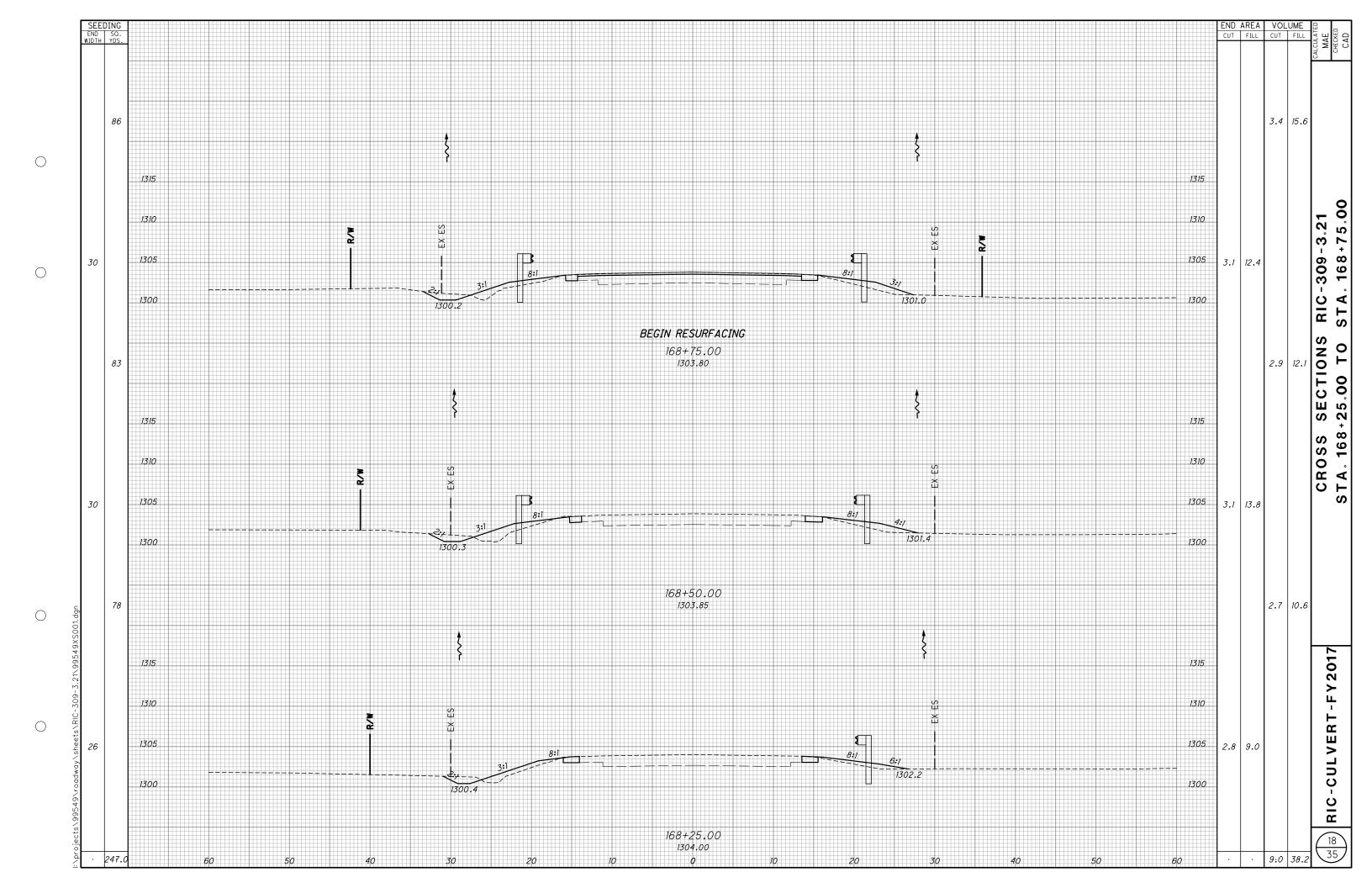
UTILITY LINES

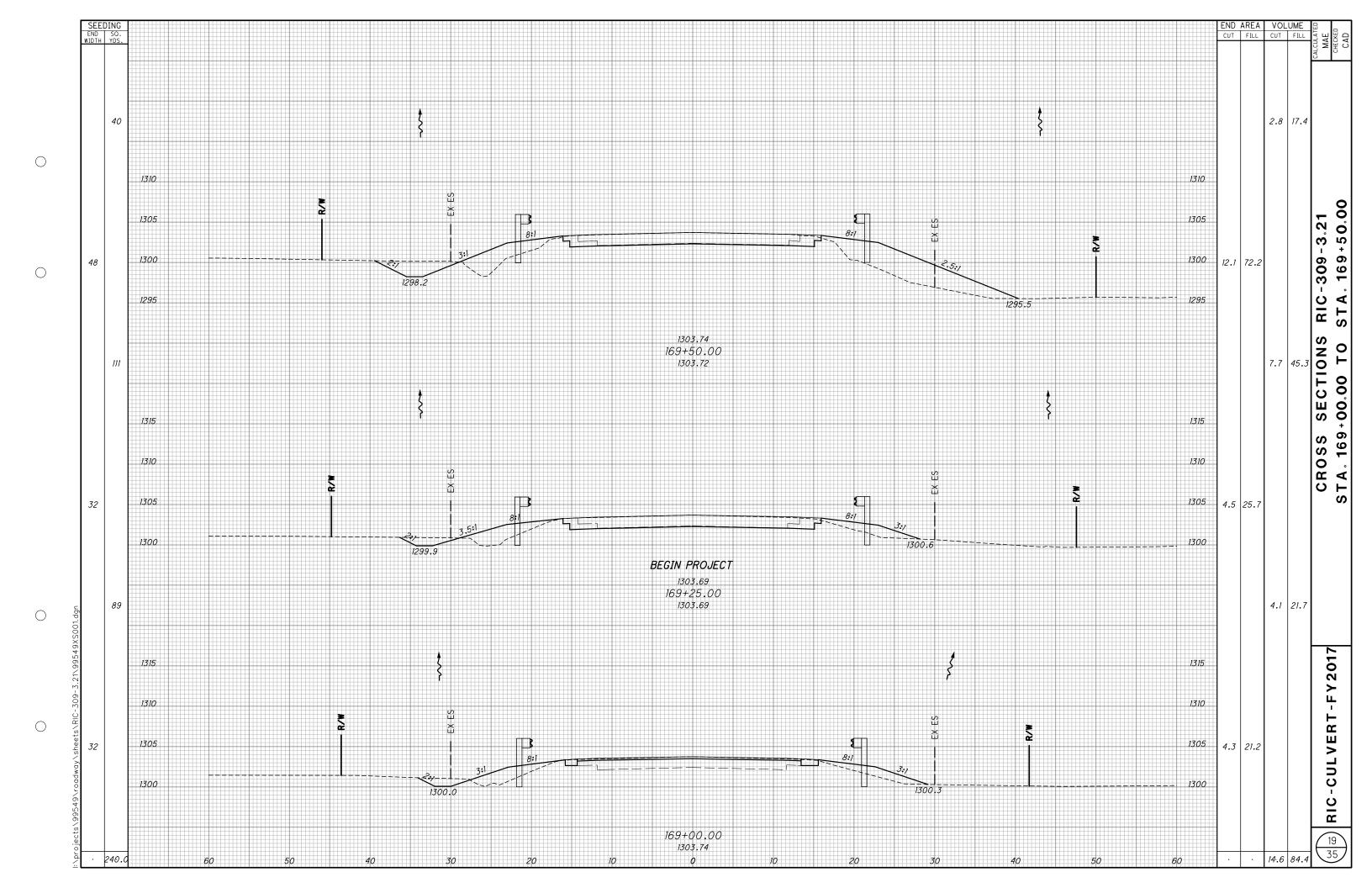
ALL EXPENSES INVOLVED IN RELOCATING OR INSTALLING THE AFFECTED UTILITY LINES SHALL BE THE RESPONSIBLITY OF THEIR RESPECTIVE OWNER(S). THE CONTRACTOR AND OWNER(S) ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

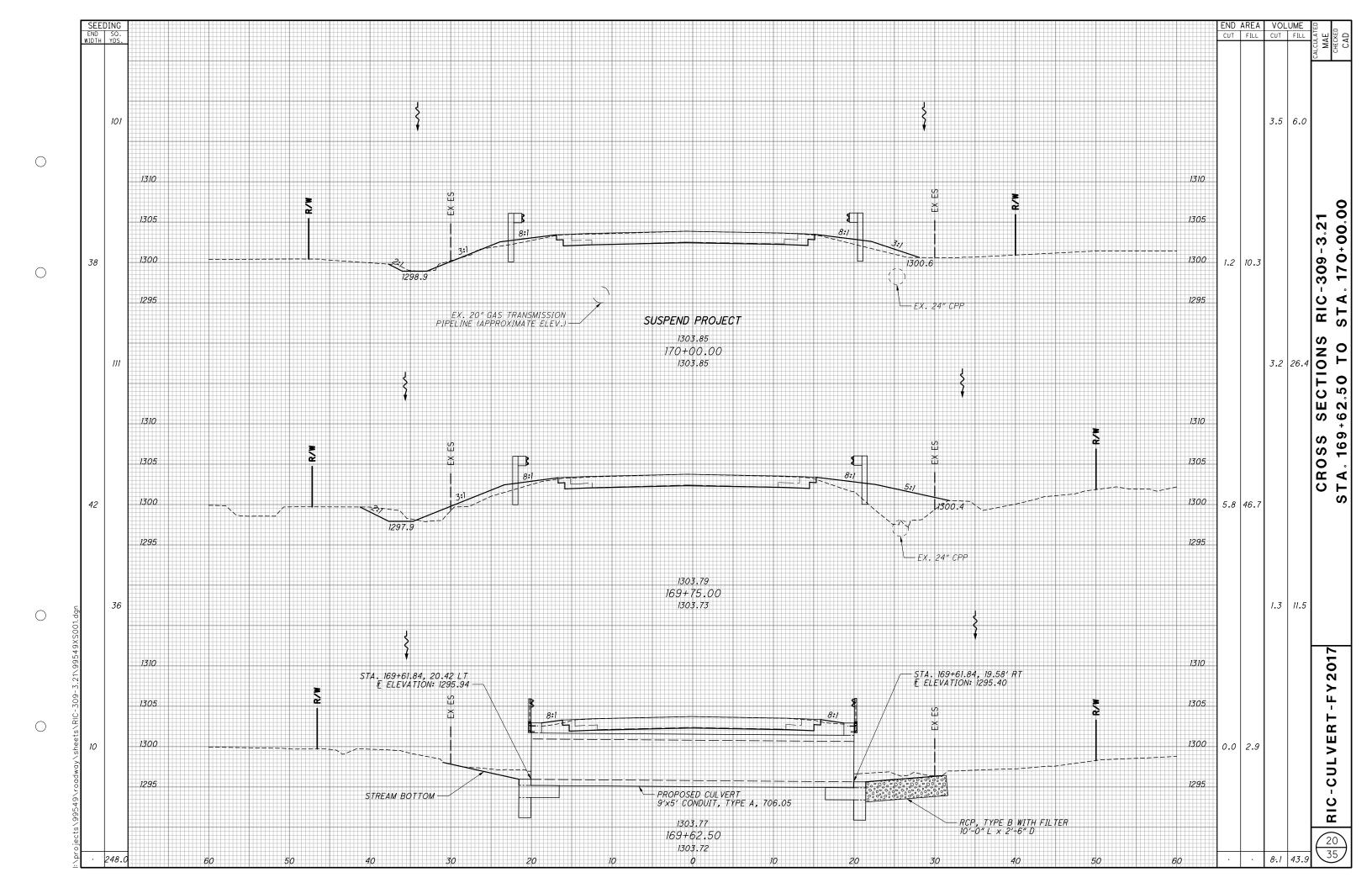
BASIS OF PAYMENT

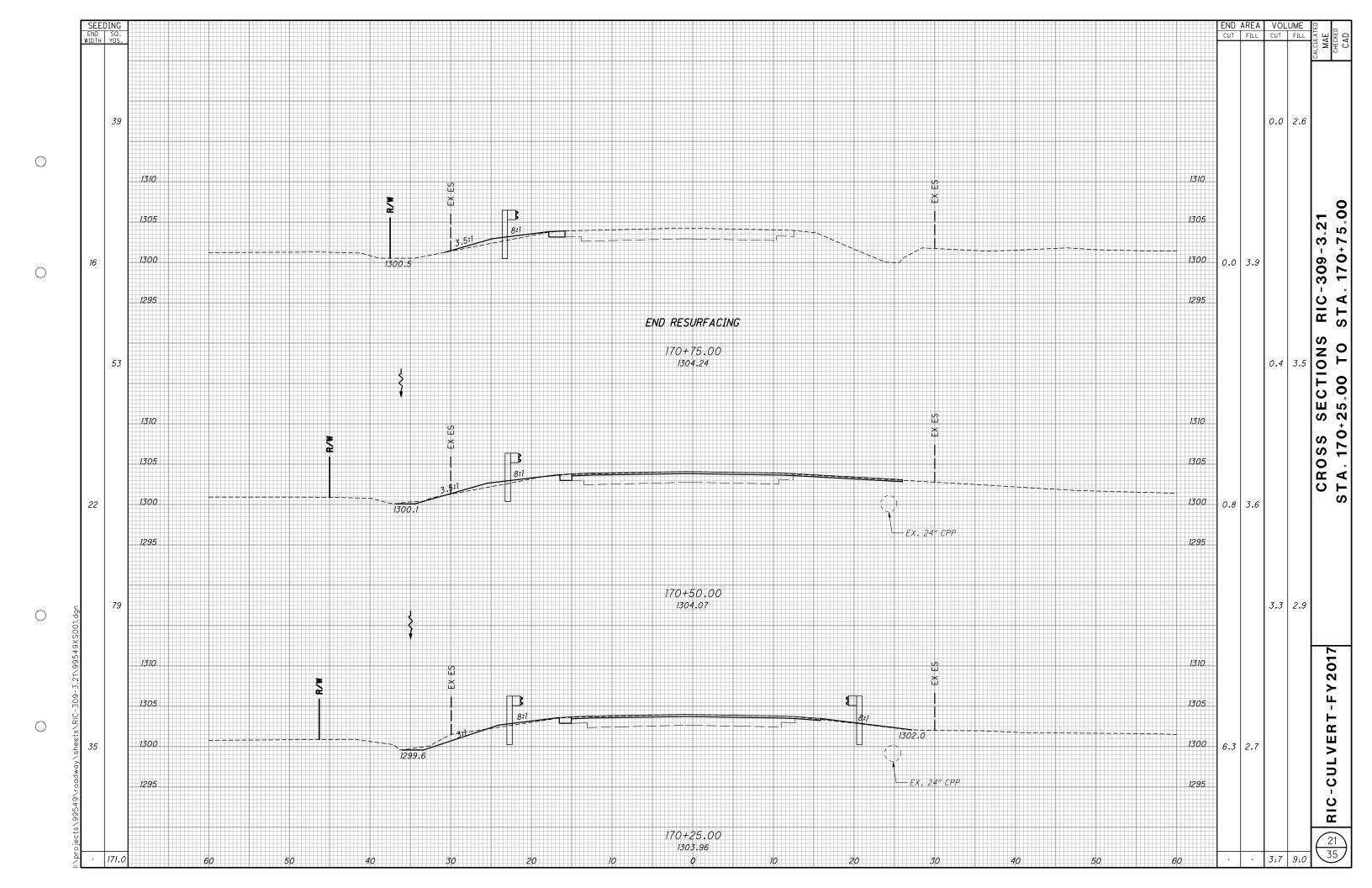
ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTINGS, CUTOFF WALLS, WINGWALLS, AND HEADWALLS SHALL BE INCLUDED WITH THE LISTED 511 - QC1 CONCRETE ITEMS. PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

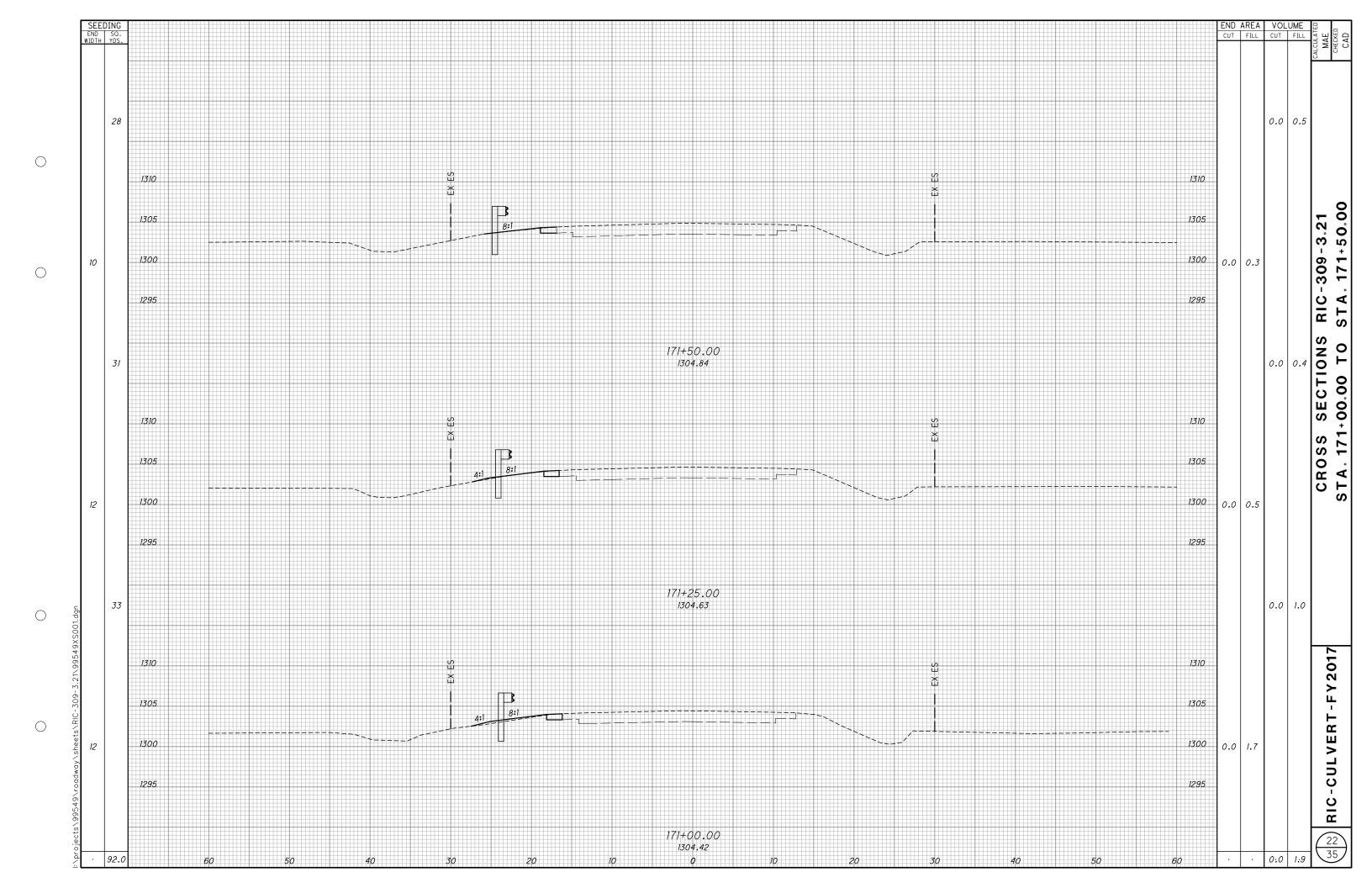


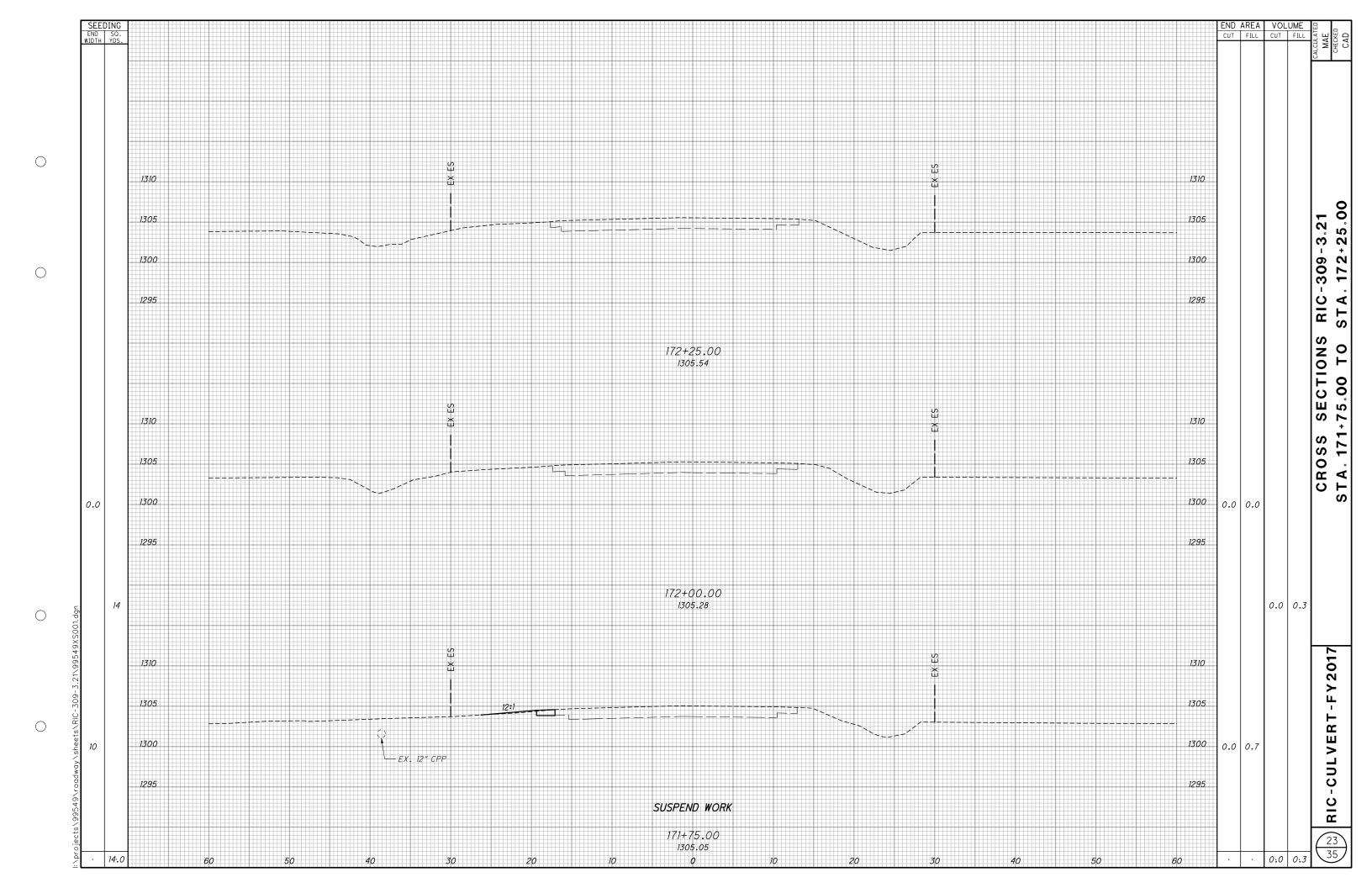












PAVEMENT TABLE											
		202	204	254	301	30	04	40	07	442	
LOCATION	LENGTH	PAVEMENT REMOVED	SUBGRADE COMPACTION	PAVEMENT PLANING, ASPHALT CONCRETE (3.0")	ASPHALT CONCRETE BASE, PG64-22 (T=8")	AGGREGATE BASE (T=6")	AGGREGATE BASE (T=8")	TACK COAT (0.06 GAL./SY)	TACK COAT (0.09 GAL./SY)	ASPHALT CONCRETE SURFACE COURSE, 9.5MM, TYPE A, (448), AS PER PLAN (T=3") (MINIMUM 2-LIFTS)	
STATION	FT	SY	SY	SY	CY	CY	CY	GAL	GAL	CY	
11+89 TO 12+04	15			39.8			1.5	2.4	3.6	3.3	
12+04 TO 12+56	52	189.4	189.4		42.1	31.6	5.1	22.7		15.8	
12+56 TO 12+71	15			118.7			1.5	2.8	10.7	9.9	
TOTALS TO GENERAL	SUMMARY	189	189	158	42	4	10	4	2	29	

PAVEMENT MARKING								
	64	12						
LOCATION	EDGE LINE, TYPE 1	CENTERLINE, TYPE 1						
	MILE	MILE						
STATION								
11+89 TO 12+71	0.03	0.02						
TOTALS TO GEN. SUM.	0.03	0.02						

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AGGREGATE DRAINS									
	605	605							
LOCATION	AGGREGA TE DRAINS	AGGREGA TE DRAINS							
	LEFT	RIGHT							
	FT	FT							
STATION									
12+05		12							
12+30	22								
12+55		12							
TOTALS TO GEN. SUM.	4	6							

ITEM 659 - SEEDING AND MULCHING

226 SQ. YD.

11 SQ. YD.

ITEM 659 - SOIL ANALYSIS TEST

25 c.y. x 1 test/10000 c.y.= 0.003 EACH

2 EACH (Minimum of 2 tests)

ITEM 659 - TOPSOIL

226 s.y. x 111 c.y./1000 s.y. = 25.09 cu. yd. 25 CU. YD.

ITEM 659 - REPAIR SEEDING AND MULCHING

226 s.y. x 0.05 = 11.3 sq. yd. 11 SQ. YD.

ITEM 659 - INTER-SEEDING

226 s.y. x 0.05 = 11.3 sq. yd.

ITEM 659 - COMMERCIAL FERTILIZER

226 s.y. x 9 x 30 lbs/1000 s.f. / 2000 lb./ton = 0.03 TON

(FOR INTER-SEEDING)

11 s.y. x 9 x 20 lbs/1000 s.f. / 2000 lb./ton = 0.001 TON COMMERCIAL FERTILIZER TOTAL 0.03 TON

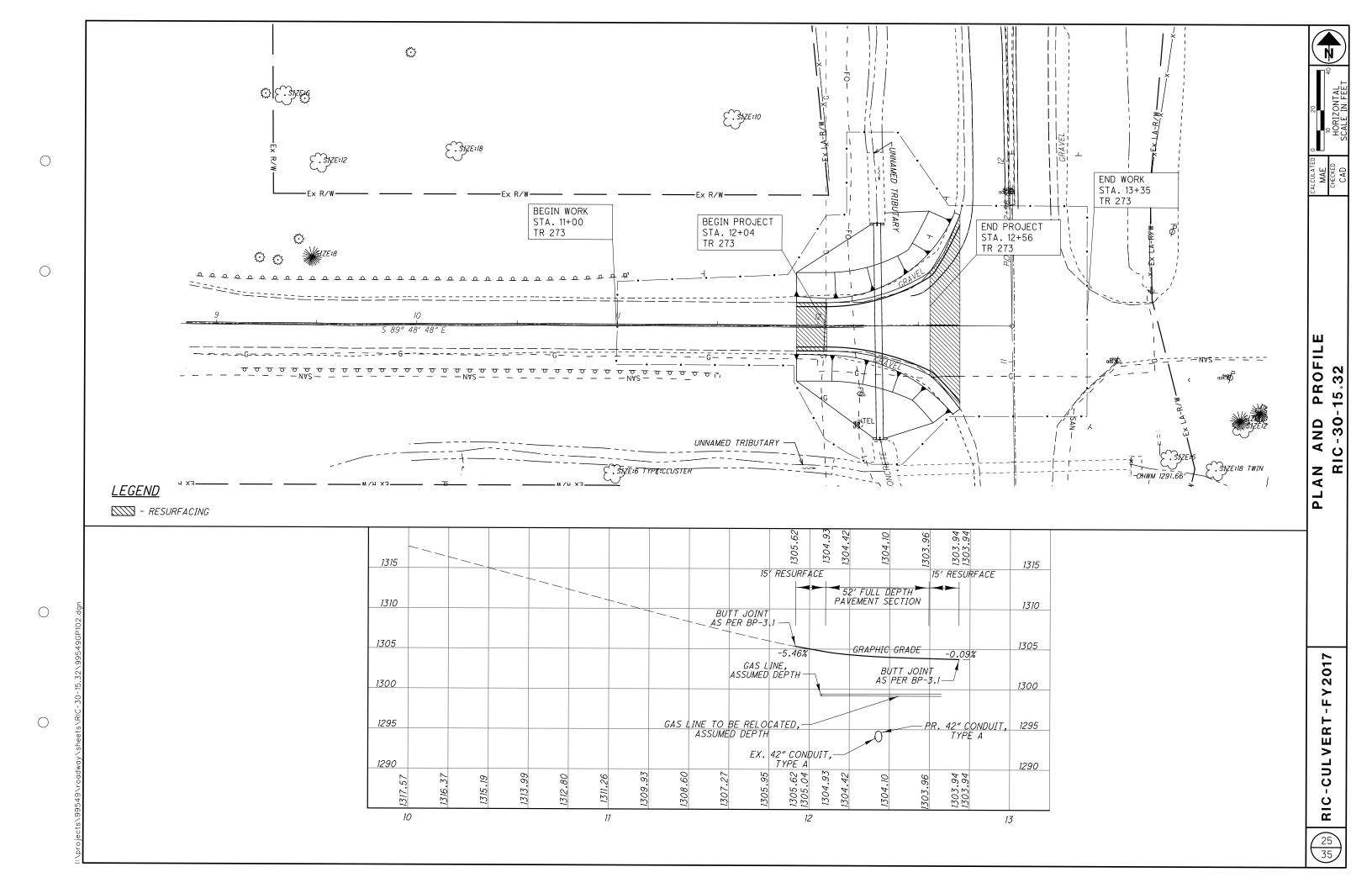
ITEM 659 - LIME 226 s.y. x (9 s.f./s.y.) / (43,560 s.f./acre) = 0.05 ACRES

ITEM 659 - WATER

226 s.y. x 9 x 300 gal/1000 s.f. x 2 app./1000 s.f. = 1.22 M. GAL.

WATER (FOR INTER-SEEDING)

11 s.y. x 9 x 300 gal/ 1000 s.f. x 1 app./1000 s.f. = 0.03 M. GAL. WATER TOTAL 1.25 M. GAL.





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CULVERT DE RIC-30-15

V (25) = 12.04 FT/S V (100) = 12.17 FT/S

EXISTING STRUCTURE TO BE REMOVED. ROAD TO BE CLOSED

NO BUILDINGS, RESIDENCES OR BUSINESS ESTABLISHMENTS LAY IN THE BASE FLOOD PLAIN, AND NO FLOOD HAZARD EXISTS.

ITEM QUANTITY UNIT DESCRIPTION 201 LUMP LUMP CLEARING AND GRUBBING 202 2 EA HEADWALL REMOVED 202 108 FT PIPE REMOVED, OVER 24" 203 10 CY EMBANKMENT 203 10 CY EXCAVATION 503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING 602 2 CY CONCRETE MASONRY		ESTIMATED (QUANTITIES	S CARRIED TO GENERAL SUMMARY
202 2 EA HEADWALL REMOVED 202 108 FT PIPE REMOVED, OVER 24" 203 10 CY EMBANKMENT 203 10 CY EXCAVATION 503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING	ITEM	QUANTITY	UNIT	DESCRIPTION
202 2 EA HEADWALL REMOVED 202 108 FT PIPE REMOVED, OVER 24" 203 10 CY EMBANKMENT 203 10 CY EXCAVATION 503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING				
202 108 FT PIPE REMOVED, OVER 24" 203 10 CY EMBANKMENT 203 10 CY EXCAVATION 503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING	201	LUMP	LUMP	CLEARING AND GRUBBING
203 10 CY EMBANKMENT 203 10 CY EXCAVATION 503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING	202	2	EA	HEADWALL REMOVED
203 10 CY EXCAVATION 503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING	202	108	FT	PIPE REMOVED, OVER 24"
503 LUMP LUMP COFFERDAMS AND EXCAVATION BRACING	203	10	CY	EMBANKMENT
	203	10	CY	EXCAVATION
602 2 CY CONCRETE MASONRY	503	LUMP	LUMP	COFFERDAMS AND EXCAVATION BRACING
	602	2	CY	CONCRETE MASONRY
611 108 FT 42" CONDUIT, TYPE B	611	108	FT	42" CONDUIT, TYPE B

201

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LATITUDE: N 40° 45′ 60" LONGITUDE: W 82° 40′ 14"

UTILITY OWNERS

175 ASHLAND ROAD

MANSFIELD, OH 44907 419-755-7956

COLUMBIA GAS OF OHIO

1021 N. MAIN ST. MANSFIELD, OHIO 44903

CITY OF MANSFIELD

CENTURYLINK

419-528-1137

P.O. BOX 3555

TELEPHONE

GAS

CITY

RIGHT OF WAY LEGEND SHEET RIC-309-3.21

RICHLAND COUNTY SPRINGFIELD TOWNSHIP NE QTR, SECTION 19 T-21, R-19

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2-4
PROPERTY MAP	5
SUMMARY OF ADDITIONAL RIGHT OF WAY	6
R/W TOPOGRAPHY SHEET	8
R/W BOUNDARY SHEET	7,9

PLANS PREPARED BY:

PROJECT DESCRIPTION

and related miscellaneous items.

This project includes the replacement of two

culverts in Richland County. Work includes replacement of culverts, reshaping slopes,

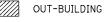
quardrail, full depth pavement replacement

FIRM NAME & ODOT DISTRICT THREE
R/W DESIGNER: BETH SANDERS
R/W REVIEWER: SCOTT J. HAWKINS
FIELD REVIEWER: BETH SANDERS
PRELIMINARY FIELD REVIEW DATE:
TRACINGS FIELD REVIEW DATE: 1/28/16
OWNERSHIP UPDATED BY: BETH SANDERS
DATE COMPLETED: 1/27/16
PLAN COMPLETION DATE: 1/28/16
· · · · · · · · · · · · · · · · · · ·

STRUCTURE KEY

RESIDENTIAL

COMMERCI



TYPES OF TITLE LEGEND: WD = WARRANTY DEED PRW = PROPERTY RIGHT FEE SIMPLE SH = STANDARD HIGHWAY EASEMENT T = TEMPORARY EASEMENT
T = TEMPORARY EASEMENT
CH = CHANNEL EASEMENT
A = AERIAL EASEMENT SL = SLOPE EASEMENT U = UTILITY EASEMENT

30 NORTH DIAMOND STREET MANSFIELD, OH 44902 419-755-9702 NOTE: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

CONVENTIONAL SYMBOLS

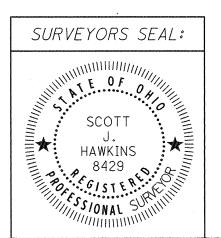
ELECTRIC

GAS

CABLE

Township Line — — — — — — — Ditch / Creek (Pr)— Section Line ----- Tree Line (Ex) Fence Line (Ex) ---x --x --(Pr) ---x Property Line Symbol f, Example ---Right of Way (Ex) ----Right of Way (Pr)-Standard Highway Ease.(Ex)------Ex SH------- Evergreen (Ex) **, Stump M Temporary Right of Way Channel Ease. (Pr) Utility Ease. (Ex) — Ex U — Post (Ex) O , Mailbox (Ex) MB , Mailbox (Pr) MB Edge of Shoulder (Ex) -----Edge of Shoulder (Pr) -

or minimos Ownership Hook Symbol Z , Example \overline{Z} Break Line Symbol \(\strace{\chi} \), Example — —Ex R/W — Tree (Pr) ♠ , Tree (Ex) ♠ , Shrub (Ex) ♠ —R/W — Tree (Remove) ※ , Shrub (Remove) ※ Evergreen (Remove) ★ , Stump (Remove) ★ , Stump (Remove) ★ , Aerial Target ♠



I, SCOTT J. HAWKINS, P.S., HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN MAY 2015. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN.

UNDERGROUND UTILITY LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THOUGH THEY ARE BELIEVED TO BE ACCURATE, THEIR LOCATION IS AS MARKED ON THE GROUND BY THE UTILITY COMPANY PER OUPS CONFIRMATION NUMBER A511803754 AND THOSE MARKINGS SUBSEQUENTLY BEING SURVEYED AS A PART OF THIS PROJECT.

THE HORIZONTAL COORDINATES EXPRESSED HEREIN ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE BY TIES TO THE ODOT CORS NETWORK. THE UNITLESS PROJECT ADJUSTMENT FACTOR USED FOR THIS PROJECT IS 1.00010428.

FURTHER MORE; I HAVE CALCULATED THE PROPOSED PROPERTY LINES, GROSS TAKE, PRESENT ROAD OCCUPIED, NET TAKE AND NET RESIDUE; FROM FIELD SURVEY, EXISTING RECORDS AND SURVEY PLATS, AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THESE PARCELS AS SHOWN HEREIN.

AS PART OF THIS PROJECT I HAVE DETERMINED THE LOCATIONS OF THE EXISTING PROPERTY LINES FOR PROPERTY TAKES CONTAINED HEREIN. I HAVE ALSO SET MONUMENTS AT THE PROPOSED PROPERTY CORNERS. SECTION CORNERS AND OTHER POINTS SHOWN HEREIN, AS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS THE MINIMUM STANDARDS FOR BOUNDARY SURVEY IN THE STATE OF OHIO UNLESS SO NOTED.

THE WORDS I AND MY AS USED HEREIN ARE TO MEAN THAT EITHER MYSELF OR SOMEONE WORKING FOR ME UNDER MY DIRECT CONTROL OR SUPERVISION.

SCOTT J. HAWKINS, PROFESSIONAL LAND SURVEYOR NO. 8429

COLUMBIA PIPELINE GROUP P.O. BOX 85 LAKEVILLE, OH 44638

OHIO EDISON COMPANY 1717 ASHLAND ROAD MANSFIELD, OHIO 44905

419-521-6275

419-827-2620 TIME WARNER CABLE 5520 WHIPPLE AVE. NW NORTH CANTON, OH 44720

330-494-9200 EXT. 330-555-3003

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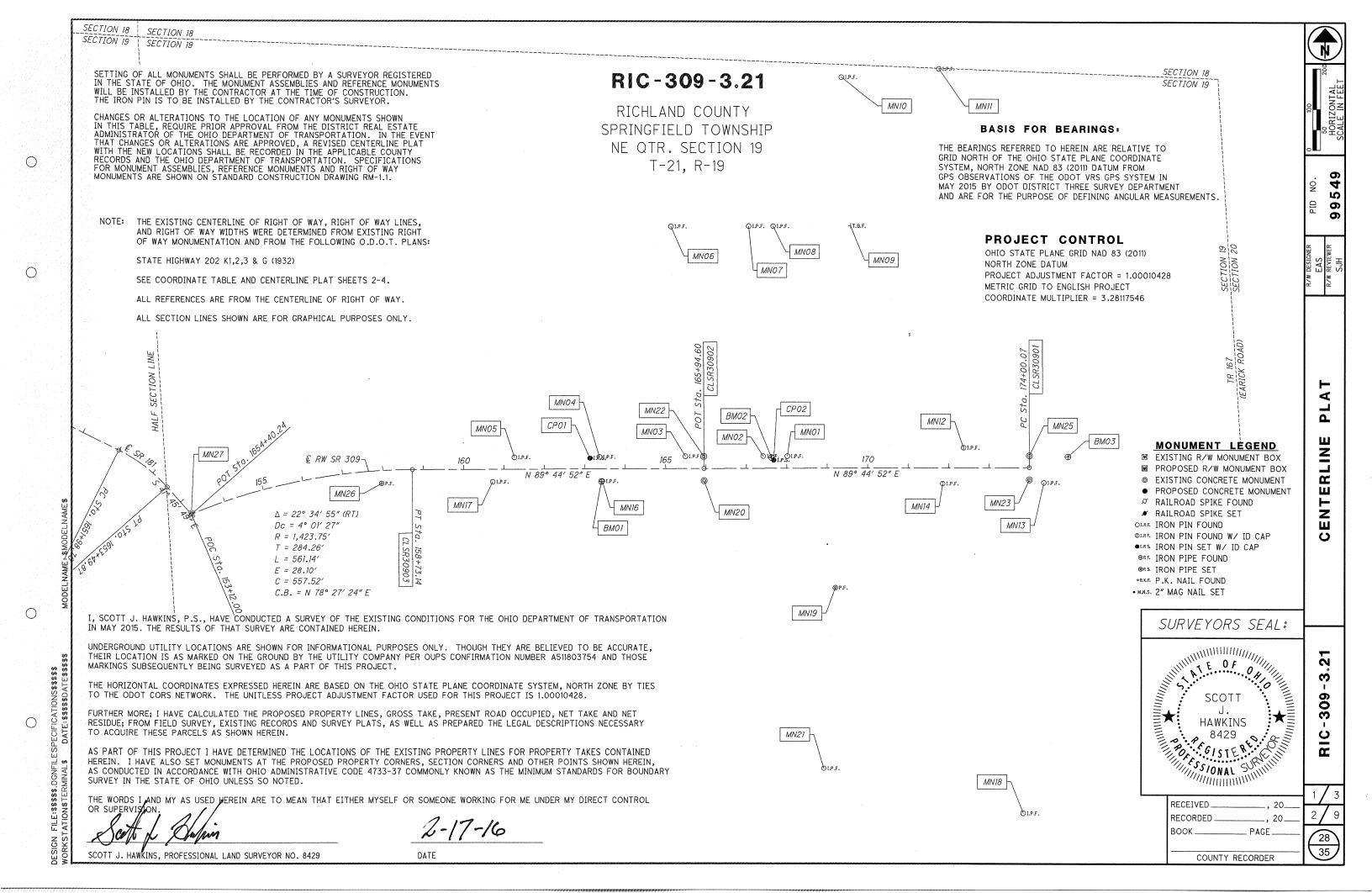
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					99549	PID:							RIC-309-3.2				
	TS TO BE SET			ATES	GRID COORDIN	ATE PLANE	S						RDINATES - US				
	ONSTRUCTION		NA VD88))) Vert. Datum:	e, North Zone (340	Ohio State Plan	NAD83 (2011)	Horiz. Datum:	PROJECT CONTROL POINTS	3.28117546	ject Adjustment	(meters) by a Pr	e Grid coordinates	State Plan	eet) are relative to	ates (U.S. Survey)	Project coordin Factor of:
	1TEM 623.0	ITEM 623.05 MONUMENT		are established by I			CPS from COPS us	CPOL defined I	-	+	(32) used for alignme	202 K1 2 3 8 C II	STATE LITCUWAY		nf-way SP 300	C/L of Right-	deror or
	REFERENCE MONUMENT	ASSEMBLY	EAST (US FT)	NORTH (US FT)	ORTHO HT (m)	EAST (m)	NORTH (m)	NAME I	DESCRIPTION	FEATURE	ELEVATION (US FT)	EAST (US FT)	NORTH (US FT)	RT/LT	OFFSET (US FT)	STATION	NAME
_	MONUMENT	STATISTICS.	1920667.3177	400811.1130	399.020	585420.5693	122167.4716	CP01	3/4" REBAR WITH 3" ALUMINUM CAP	IPINS	1309.12	1920867.605	400852.9096	LT	-27.10	163+12.40	CP01
_			1921122.2124	400806.8308	397.323	585559.2215	122166.1663	CP02	5/8" REBAR WITH 'ODOT TRAV. PT' CAP	1P1NS	1303.55	1921322.547	400848.6269	LT	-20.82	167+67.32	CP02
			1921820.6941	400813.0999	399.315	585772.1191	122168.0772	CP03	5/6" REBAR WITH 'ODOT TRAV. PT' CAP	IPINS	1310.09	1922021.102	400854.8967	RT	OffChain	OffChain	CP03
			1920696.0674	400752.9079	399.720	585429.3322	122149.7306	BM01	SPIKE IN POWER POLE	BM	1311.42	1920896.358	400794.6984	RT	31.23	163+40.90	BMOI
			1921116.9068	400812.8076	397.353	585557.6043 585781.1249	122167.9881 122169.0565	BM02 BM03	SPIKE IN POWER POLE *128DG 800-26 SPIKE IN TELEPHONE POLE	BM BM	1303.65 1311.64	1921317.241 1922050.651	400854.6044	LT RT	-26.82 OffChain	167+62.04 OffChain	BM02 BM03
			1921850.2406	400816.3128	399.787	585781.1249	122109.0000	ВМОЗ	STACE IN TELETHORE FOLE	DIW.	1511.04	1322030.031	400838.1093		OTTERIUM	UTTGRUIII	ВМОЗ
			NA VD88	l) Vert. Datum: i	e, North Zone (340	Dhio State Plan	NAD83 (2011)	Horiz. Datum:	EXISTING CENTERLINE CONTROL POINTS		ROUTE 309	F WAY STAT	LINE OF RIGHT (CENTER	MONUMENTATION	EXISTING	
			EAST (US FT)	NORTH (US FT)	ORTHO HT (m)	EAST (m)	NORTH (m)	NAME	DESCRIPTION	FEATURE	ELEVATION (US FT)	EAST (US FT)	NORTH (US FT)	RT/LT	OFFSET (US FT)	STATION	NAME
1 2			1919682.047	400670.525	401.150	585120.2580	122124.6203	MN27	I INCH IRON PIN IN MONUMENT BOX	MONBOX	1316.11	1919882.231	400712.307	RT	0.00	153+12.00	MN27
			1920950.194	400755.263	398.135	585506,7901	122150.4486	MN20	CONCRETE RIGHT OF WAY MONUMENT - GOOD	CMON	1306.21	1921150.511	400797.0541	RT	30.00	165+95.06	MN20
			1920949.018	400815.716	397.246	585506.4316	122168.8746	MN22	CONCRETE RIGHT OF WAY MONUMENT - GOOD	CMON	1303.30	1921149.334	400857.5132	LT	-30.47	165+94.15	MN22
_			1921754.984 1921754.991	400758.874	398.082 398.617	585752.0907 585752.0927	122151.5492 122169.7925	MN23 MN25	CONCRETE RIGHT OF WAY MONUMENT - BROKEN HARD, STRAIGHT CONCRETE RIGHT OF WAY MONUMENT - GOOD	CMON	1306.04 1307.80	1921955.385 1921955.392	400800.6655 400860.525	RT LT	29.93 -29.93	173+99.94 17400.205	MN23 MN25
			1921754.991	400818.728	330.011	303132.0321	122103.1323	MIASO	CONDICTE MONTH OF WAY INCOMENT COOL	CHOTE	1501150	10210001502	400000.020		20.00	11400.200	IMIZO
IGNER			NA VD88	l) Vert. Datum: I	a, North Zone (340	Dhio State Plan	NAD83 (2011)	Horiz. Datum:	CENTERLINE ALIGNMENT		JTE 309	ON STATE RO	& CONSTRUCTION	HT OF WA	CENTERLINE OF RIC		
DES			EAST (US FT)	NORTH (US FT)	ORTHO HT (m)	EAST (m)	NORTH (m)	NAME	DESCRIPTION	FEATURE	ELEVATION (US FT)	EAST (US FT)	NORTH (US FT)	RT/LT	OFFSET (US FT)	STATION	NAME
2			1919682.047	400670.525	401.150	585120.2580	122124.6203	MN27	I INCH IRON PIN IN MONUMENT BOX, CENTERLINE SR 181	MONBOX	1316.11	1919882.231	400712.307	RT	0.00	153+12.00	MN27
			1919944.003	400780.826	0.000	585200.1026	122158.2402	CLSR30904	Pl	CALPT	0.00	1920144.215	400822.6198	LT	-28.10	155+92.57	CL SR30904
			1920228.233	400782.078	0.000	585286.7359	122158.6217	CL SR30903	PT	CALPT	0.00	1920428.474	400823.8715	RT	0.00	158+73.14	CLSR30903
_			1920949.610	400785.255	0.000	585506.6123	122159.5899	CLSR30902	POT	CALPT	0.00	1921149.927	400827.0484	RT	0.00	165+94.60	CLSR30902
												********		1			
			1921754.987	400788.801	0.000	585752.0917	122160.6709	CL SR30901	PC	CALPT	0.00	1921955.388	400830.5953	RT	0.00	174+00.07	CLSR30901
				400788,801 399358,488	0.000	585288.6466	121724.7107	CL SR30905	PC CC Unitless Factor: The Unitless Factor for the project was computed by taking the inverse of the TBC-ga	CALPT	0.00	1920434.743 Project Ground	399400.1333 State Plane Grid t	RT	0.00 1423.75 1.00010428 3.28117546	179+84.17	CLSR30905 nitless Factor
	fications.	and Mapping Specit	1921754.987 1920234.501	399358.488	0.000	585288.6466	121724.7107 ale factor for: CP	CLSR30905	THE NAME OF THE PARTY OF THE PA	CALPT	0.00 (same units) (Ground (US Survey F	1920434.743 Project Ground neters) to Projec meters conversio	399400.1333 State Plane Grid to State Plane Grid (n US Survey foor to	RT	1423.75 1.00010428 3.28117546 3.28083333	179+84.17 (UF) = ent Factor (PAF) = c conversion =	CLSR30905 nitless Factor roject Adjustm nglish to metr
	fications. TO BE RESET		1921754.987 1920234.501	399358.488	0.000	585288.6466	121724.7107 ale factor for: CP ished by different	CLSR30905	The Unitless Factor for the project was computed by taking the inverse of the TBC-ga Primary Project Controls	CALPT	0.00 same units) Ground (US Survey F o factor D1.76097*, W 89* 28′ 32.	1920434.743 o Project Ground neters) to Projec meters conversio H=0, E=0 (N 39* 27'	399400.1333 State Plane Grid to State Plane Grid (n US Survey foor to	RT the Ohio No	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou	179+84.17 (UF) = ent Factor (PAF) = c conversion =	CLSR30905 Initless Factor Project Adjustm Inglish to metri
	TO BE RESET	MONUMENTS AFTER CON	1921754.987 1920234.501 o the ODOT Surveyin	399358.488 are in conformance to	0.000 POI. All positions RID COORDINA	S85288.6466	121724.7107 ale factor for: CP ished by differents	CLSR30905 amerated combined s cal control was esta	The Unitless Factor for the project was computed by taking the inverse of the TBC-ga Primary Project Controls	CALPT	0.00 same units) Ground (US Survey F n factor 01.76097", W 89* 28' 32	1920434.743 Di Project Ground Neters) to Projec meters conversic N=0, E=0 (N 39* 27'	399400.1333 State Plane Grid to the Plane Grid in IS Survey foor to the Zone grid point in RDINATES - US	The Ohio No	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou	179+84.17 (UF) = ent Factor (PAF) = c conversion = tes are scaled from	CLSR30905 mitless Factor roject Adjustm nglish to metr. ROJECT coordina
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<u>5</u>	TO BE RESET NSTRUCTION ITEM 623.03 BOUNDARY	MONUMENTS AFTER CON ITEM 623.05 RIGHT OF WAY	1921754.987 1920234.501 o the ODOT Surveyin NAVD88 EAST (US FT) 1921156.106 1921157.999 1921158.135 1921179.803 1921205.109 1921290.584	399358.488 are in conformance for the second of the secon	0.000 POI. All positions RID COORDINA , North Zone (340) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Leveling from 0 ATE PLANE 0 Thio State Plane EAST (m) 585569.5522 585570.1706 585576.7752 585576.4883 585610.5412	121724.7107 Ide factor for: CP Ished by different ST NAD83 (2011) NORTH (m) 122159.0102 122150.7266 122150.7266 122150.7897 122144.8090	CLSR30905 ameratad combined s cal control was esta Horiz. Datums NAME REOI PPOI RPII RP04 RP10 RP09	The Unitless Factor for the project was computed by taking the inverse of the TBC-gr. Primary Project Controls Horizontal control was positioned with a minimum of 5 VRS-derived GNSS observations. Vertice PROPOSED RIGHT OF WAY MONUMENTS DESCRIPTION 2" MAG NAIL SET 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3"	CALPT 284767. 3.28117546 † FEATURE MNS IPS IPS IPS IPS	0.00 same units) Ground (US Survey F n factor 01.76097", W 89* 28' 32. ject Adjustment 32) used for alignme ELEVATION (US FT) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1920434.743 Deproject Ground teters) to Project meters conversic project for the project for	399400.1333 State Plane Grid to tate Plane Grid (n IS Survey foor to orth Zone grid point (n IS Survey foor to orth Zone grid coordinates STATE HIGHWAY NORTH (US FT) 400857.958 400827.966 400797.967 400868.063 400798.173 400778.550	The Ohio No JND COO State Plan RT/LT LT RT LT	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou PROJECT GRO eet) are relative to 17-Way SR 308 OFFSET (US FT) 30.00 0.00 30.00 40.00 30.00 50.00	179+84.17 (UF) = ent Factor (PAF) = c conversion = tes are scaled from the sc	CLSR30905 iitless Factor roject Adjustm glish to metr. IOUECT coordina roject coordina roject coordina NAME REOI PPOI RPII RPO4 RPIO RPO9
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37	TO BE RESET NSTRUCTION ITEM 623.03 BOUNDARY	MONUMENTS AFTER CON ITEM 623.05 RIGHT OF WAY	1921754.987 1920234.501 1920234.501 1920234.501 1920234.501 192156.106 192157.999 192158.135 192179.803 1921295.109 1921295.694 1921293.685 1921330.183 1921347.133 1921347.133 1921350.161 1921380.088 1921404.756 1921454.817 1921454.949	399358.488 are in conformance for the conform	0.000 POI. All positions RID COORDINA , North Zone (340) 0.000	585288.6466 Leveling from Control of the Plane Con	121724.7107 Ide factor for: CP Ished by different, NAD83 (2011) NORTH (m) 122169.0102 122159.0696 122150.7266 122150.7897 122144.8090 122160.0517 122144.8621 122174.7525 122160.1275 122151.0245 122151.0245 122151.0245	CLSR30905 Innerated combined second control was established and control was establish	The Unitless Factor for the project was computed by taking the inverse of the TBC-gr Primary Project Controls Horizontal control was positioned with a minimum of 5 VRS-derived GNSS observations. Vertice PROPOSED RIGHT OF WAY MONUMENTS DESCRIPTION 2" MAG NAIL SET 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3"	CALPT CALC CALPT CALC CALPT CALC CALPT CALC CALC CALPT CALC CALC CALPT CALC	0.00 same units) Ground (US Survey F of factor 01.76097", W 89* 28' 32. ject Adjustment 32) used for alignme ELEVATION (US FT) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1920434.743 Project Ground teters) to Project meters conversion for the first conversion for th	399400.1333 State Plane Grid to the Plane Grid to 18 Survey foor to 18 Survey foor to 19 Survey food food food food food food food foo	The Ohio No JND COO State Plan RT/LT LT RT RT RT LT RT LT RT LT L	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou PROJECT GRO eet) are relative to 17-Way SR 308 OFSET (US FT) 30.00 0.00 30.00 40.00 30.00 50.00 0.00 48.00 0.00 30.00 45.00 0.00 30.00 45.00 0.00 0.00 0.00	179+84.17 (UF) = ent Factor (PAF) = c conversion = tes are scaled from the scale of the scale o	cccsR30905 iitless Factor roject Adjustm glish to metr. louect coordina roject coordina roject coordina NAME REOI PPOI RPII RPO4 RPIO RP09 PP03 RP06 RP01 PP02 RP07 RP02 RP07 RP02 RP03 RP06 RP03 RP06 RP03 RP06
37	TO BE RESET NSTRUCTION ITEM 623.03 BOUNDARY	MONUMENTS AFTER CON ITEM 623.05 RIGHT OF WAY	1921754.987 1920234.501 1920234.501 1920234.501 1920234.501 192156.106 192157.999 192158.135 192179.803 1921295.109 1921295.109 1921293.685 1921330.183 1921347.133 1921350.161 1921347.136 1921347.456 1921454.949 1921454.949	399358.488 are in conformance to the state of the state	0.000 POI. All positions RID COORDINA , North Zone (340) 0.000	EAST (m) 585569.5522 585570.1291 585570.1706 585575.7752 58561.4883 585610.5412 585622.6109 585623.6109 585624.6109 585625.7774 585628.7002 585637.8222 585645.3409 585660.5994 585660.6397	121724.7107 In all factor for: CP Ished by differents NAD83 (2011) NORTH (m) 122169.0102 122159.8696 122150.7266 122150.7897 122144.8621 122174.7525 122160.0517 122144.8621 122174.7525 122151.0245 122151.0245 122169.4111 122160.2682 122151.1252	CLSR30905 Innerated combined second control was established and control was establish	The Unitless Factor for the project was computed by taking the inverse of the TBC-gr Primary Project Controls Norizontal control was positioned with a minimum of 5 VRS-derived GNSS observations. Vertice PROPOSED RIGHT OF WAY MONUMENTS DESCRIPTION 2" MAG NAIL SET 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3"	CALPT CALC CALPT CALC CALPT CALPT CALC CALPT CALC	0.00 same units) foround (US Survey F of factor 0.76097*, W 89* 28' 32. ject Adjustment 32) used for alignme ELEVATION (US FT) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1920434.743 Deproject Ground to Project Ground	399400.1333 State Plane Grid to that Plane Grid in IS Survey foor to the IS Survey food food food food food food food foo	The Ohio No JND COO State Plan RT/LT LT RT LT RT LT RT LT RT LT RT LT	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou PROJECT GRO eet) are relative to 17-Way SR 308 OFFSET (US FT) 30.00 0.00 30.00 40.00 30.00 50.00 0.00 50.00 48.00 0.00 30.00 48.00 0.00 30.00 45.00 30.00	179+84.17 (UF) = ent Factor (PAF) = c conversion = tes are scaled from the factor (PAF) = tes a	cccsR30905 iitless Factor roject Adjustm gglish to metr. louect coordina roject coordina roject coordina RPOI RPOI RPOI RPOI RPOS RPOS RPOS RPOC RPOZ RPOZ RPOZ RPOZ RPOZ RPOZ RPOZ RPOZ
37	TO BE RESET NSTRUCTION ITEM 623.03 BOUNDARY	MONUMENTS AFTER CON ITEM 623.05 RIGHT OF WAY	1921754.987 1920234.501 1920234.501 1920234.501 1920234.501 192156.006 192157.999 192156.135 192173.803 1921295.109 1921290.584 1921290.584 1921293.685 1921330.183 1921347.133 1921347.133 1921347.133 1921347.134 1921454.817 1921454.817 1921454.949 1921455.081 0.000	399358.488 are in conformance to the conformance t	0.000 POI. All positions RID COORDINA , North Zone (340) 0.000	EAST (m) 585569.5522 585570.1706 585576.7752 585561.5412 585610.5412 585612.6109 58562.6109 58562.6109 585637.022 585645.3409 585660.6399 0.0000	121724.7107 Inle factor for: CP Ished by differents NAD83 (2011) NORTH (m) 122169.0102 122159.8696 122150.7266 122172.0897 122150.7897 122144.8090 122160.0517 122144.8621 122174.7525 122161.0245 122173.9155 122169.4111 122160.2682 122150.2682 122150.2682	CLSR30905 Innerated combined second control was established and control was establish	The Unitless Factor for the project was computed by taking the inverse of the TBC-gr Primary Project Controls Horizontal control was positioned with a minimum of 5 VRS-derived GNSS observations. Vertice PROPOSED RIGHT OF WAY MONUMENTS DESCRIPTION 2" MAG NAIL SET 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3"	CALPT CALC CALPT CALC CALPT CALC CALPT CALC CALC CALPT CALC CALC CALPT CALC	0.00 same units) Ground (US Survey F of factor 01.76097", W 89* 28' 32. ject Adjustment 32) used for alignme ELEVATION (US FT) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1920434.743 Project Ground teters) to Project meters conversion for the first conversion for th	399400.1333 State Plane Grid to the Plane Grid to 18 Survey foor to 18 Survey foor to 19 Survey food food food food food food food foo	The Ohio No JND COO State Plan RT/LT LT RT RT RT LT RT LT RT LT L	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou PROJECT GRO eet) are relative to 17-Way SR 308 OFSET (US FT) 30.00 0.00 30.00 40.00 30.00 50.00 0.00 48.00 0.00 30.00 45.00 0.00 30.00 45.00 0.00 0.00 0.00	179+84.17 (UF) = ent Factor (PAF) = c conversion = tes are scaled from the scale of the scale o	CLSR30905 initiess Factor roject Adjustm aglish to metr. ROJECT coordina NAME REOI PPOI RPII RPO4 RPIO RPO9 PPO3 RPO6 RPO1 PPO2 RPO7 RPO2 RPO7 RPO2 RPO3 RPO6 RPO3 RPO6 RPO3 RPO6 RPO7 RPO2 RPO7 RPO2 RPO7 RPO2 RPO3 RPO6
37	TO BE RESET NSTRUCTION ITEM 623.03 BOUNDARY	MONUMENTS AFTER CON ITEM 623.05 RIGHT OF WAY	1921754.987 1920234.501 1920234.501 1920234.501 1920234.501 192156.106 192157.999 192158.135 192179.803 1921295.109 1921295.109 1921293.685 1921330.183 1921347.133 1921350.161 1921347.136 1921347.456 1921454.949 1921454.949	399358.488 are in conformance to the state of the state	0.000 POI. All positions RID COORDINA , North Zone (340) 0.000	EAST (m) 585569.5522 585570.1291 585570.1291 585570.1706 585576.7752 585614.4883 585610.5412 585612.6109 585623.6109 585637.8222 585643.3409 585600.5994 0.0000 0.0000	121724.7107 In all factor for: CP Ished by differents NAD83 (2011) NORTH (m) 122169.0102 122159.8696 122150.7266 122150.7897 122144.8030 122160.0517 122144.8621 122174.7525 122151.0245 122151.0245 122151.0245 122169.4111 122160.2682 122151.1252 0.0000 0.0000	CLSR30905 Innerated combined second control was established and control was establish	The Unitless Factor for the project was computed by taking the inverse of the TBC-gr Primary Project Controls Horizontal control was positioned with a minimum of 5 VRS-derived GNSS observations. Vertice PROPOSED RIGHT OF WAY MONUMENTS DESCRIPTION 2" MAG NAIL SET 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3" 3/4" X 30" REBAR WITH 2" ALUMINUM CAP MARKED "ODOT R/W - DISTRICT 3"	CALPT CALC CALPT CALC CALPT CALC CALPT CALC CALC CALPT CALC CALC CALPT CALC	0.00 same units) Ground (US Survey F of factor 01.76097", W 89* 28' 32. ject Adjustment 32) used for alignme ELEVATION (US FT) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1920434.743 Project Ground teters) to Project meters conversion for the first conversion for th	399400.1333 State Plane Grid to the Plane Grid to 18 Survey foor to 18 Survey foor to 19 Survey food food food food food food food foo	The Ohio No JND COO State Plan RT/LT LT RT RT RT LT RT LT RT LT L	1423.75 1.00010428 3.28117546 3.28083333 GRID coordinates abou PROJECT GRO eet) are relative to 17-Way SR 308 OFSET (US FT) 30.00 0.00 30.00 40.00 30.00 50.00 0.00 48.00 0.00 30.00 45.00 0.00 30.00 45.00 0.00 0.00 0.00	179+84.17 (UF) = ent Factor (PAF) = c conversion = tes are scaled from the scale of the scale o	CLSR30905 nitless Factor roject Adjustm nglish to metr. ROJECT coordina TO JECT COORDINA NAME REOI PPOI RPII RPO4 RPI0 RP09 PP03 RP06 RP01 PP02 RP07 RP07 RP07 RP07 RP07 RP03 RP06

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RIC-309-3.21

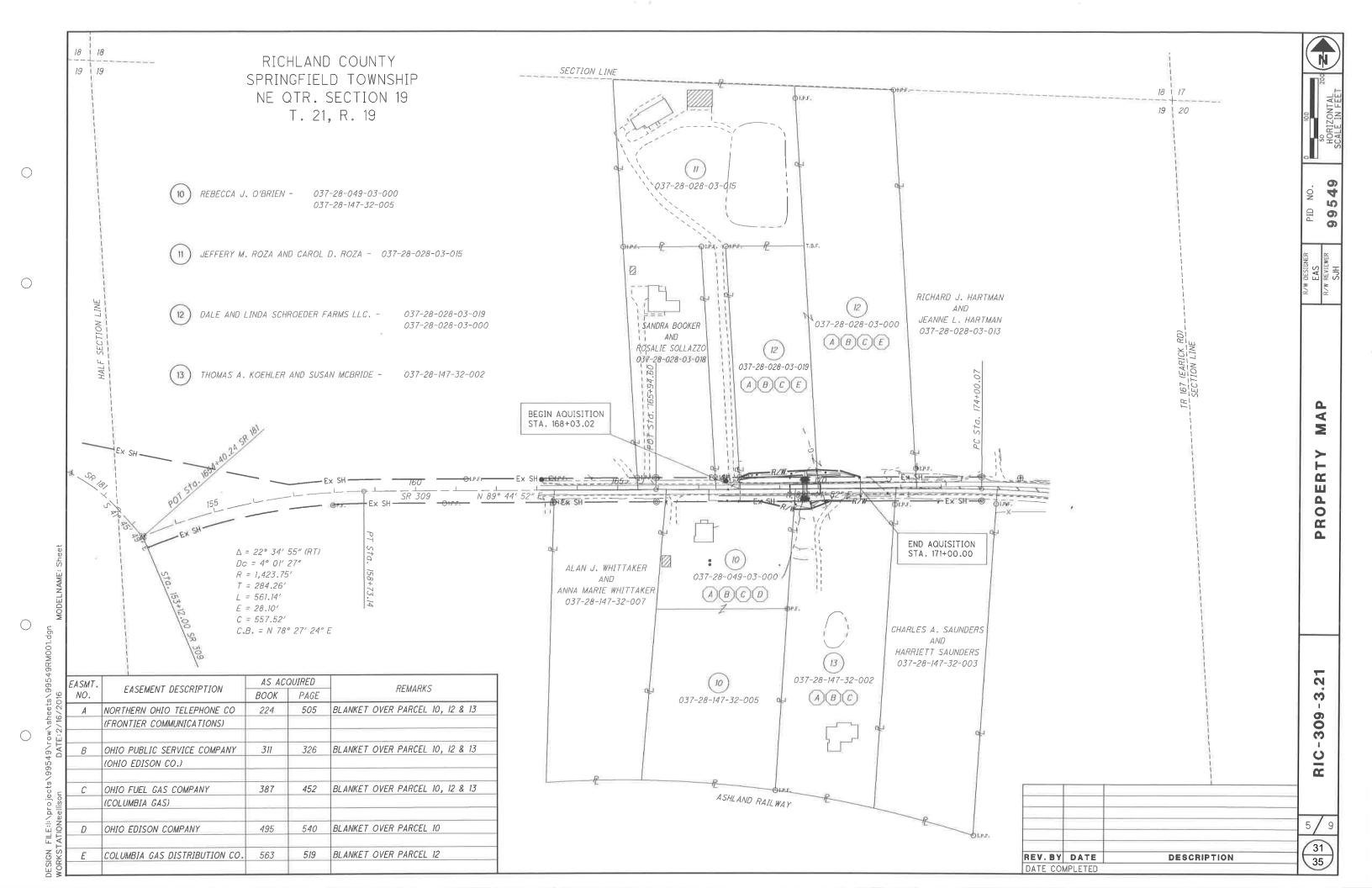
S TO BE RESET	MONUMENTS			NATES	RID COORDIN	E PLANE G	STAT						SURVEY FEET					
ONSTRUCTION ITEM 623.05	ITEM 623.05	NA VD88	rt. Datum: N	101) Vert.	, North Zone (340	o State Plane	Ohio	NAD83 (2011)	Horiz. Datum:	EXISTING RIGHT OF WAY POINTS	3.28117546		(meters) by a Proj		State Plane			Project coordin Factor of:
	RIGHT OF WAY PIN (TYPE "B")	EAST (US FT)	(IIS ET)	NORTH (US	ORTHO HT (m)	EAST (m)		NORTH (m)	NAME	DESCRIPTION	FEATURE	2) used for alignment ELEVATION (US FT)		NORTH (US FT)	RT/LT	OFFSET (US FT)	C/L of Right-o	NAME
THATTIE BY	TIN (THE D)	1920949.017		400815.	397.246	85506.4315		122168.8746	MN22		CMON	1303.30	1921149.334	400857.5132	LT	-30	165+94.15	MN22
		1920950.194		400755	398.135	95506.7902		122150.4486	MN20	CONCRETE RIGHT OF WAY MONUMENT - GOOD	CMON	1306.21	1921150.511	400797.0541	RT	30	165+95.06	MN20
		1921754.984		400758.	398.082 398.617	85752.0907 85752.0929		122151.5492 122169.7925	MN23 MN25	CONCRETE RIGHT OF WAY MONUMENT - BROKEN HARD, STRAIGHT CONCRETE RIGHT OF WAY MONUMENT - GOOD	CMON	1306.04 1307.80	1921955.385 1921955.392	400800.6655 400860.525	RT RT	30 OffChain	173+99.94 OffChain	MN23 MN25
		1921754.991 0.000		0.000	0.000	0.0000		0.0000	0	CONLINE TE RIGHT OF WAT MUNICIMENT - GOOD	EMON	1507.80	1921933.392	400000.323	- "	OTTGRAM	UTTENdill	MINZO
				NATES	RID COORDINA	E PLANE G	STATI						SURVEY FEET	RDINATES - US	UND COOL	PROJECT GRO		
		NA VD88	t. Datum: NA	ON Vert.	, North Zone (340	o State Plone,	Ohio	NAD83 (2011)	Horiz. Datum:	EXISTING BOUNDARY MONUMENTS	3.28117546	ect Adjustment	(meters) by a Proj	Grid coordinates	State Plane	et) are relative to	ites (U.S. Survey Fo	Project coordin Factor of:
NO.		FACT (UC EX)	AIC ETI	I NORTH (III	ORTHO HT (m)	EAST (m)		NORTH (m)	NAME	DESCRIPTION	FEATURE	2) used for alignment ELEVATION (US FT)		NORTH (US FT)	RT/LT	f-Way SR 309 OFFSET (US FT)	C/L of Right-o	NAME
Ž		EAST (US FT) 1921156.060		NORTH (US	396.820	35569.5383		122169.2227	MNO1	5/8" IRON BAR	IPIN	1301.90	1921356.398	400858.6553	LT	-30.70	168+01-21	MNO1
1 0		1921096.064		400816.4	397.023	85551.2514		122169.1072	MNO2	5/8" IRON BAR	IPIN	1302.57	1921296.396	400858.2765	LT	-30.58	167+41.21	MNO2
		1920903.538		400815.8	397.762	35492.5695		122168.9004	MNO3	5/8" IRON BAR	IPIN	1304.99	1921103.85	400857.5977	LT	-30.75	165+48.66	MNO3
		1920690.972		400814.0	398.713	35427.7790 35363.7336		122168.3685 122168.0113	MNO4 MNO5	5/8" IRON BAR 5/8" IRON BAR	IPIN IPIN	1308.11 1309.77	1920891.261 1920681.117	400855.8527 400854.6806	LT LT	-29.94 -29.70	163+36.07 161+25.92	MNO4 MNO5
		1920480.849 1920867.327		400812.8	399.220 398.871	85481.5324		122343.7785	MN06	5/8" IRON BAR	IPIN	1308.63	1921067.636	401431.4034	LT	-604.71	165+14.98	MNO6
8		1921059.754		401390.4	397.244	35540.1840		122344.0530	MNO7	5/8" IRON BAR	IPIN	1303.29	1921260.082	401432.3041	LT	-604.76	167+07.42	MNO7
S IGN		1921120.268	0.760	401390.7	397.007	35558.6289	585	122344.1484	MNO8	5/8" IRON BAR	IPIN	1302.52	1921320.603	401432.6171	LT	-604.81	167+67.95	MN08
DESIG		1921312.185		401391.8	396.393	85617.1251		122344.4689	MN09	5/8" IRON BAR	TBAR	1300.50	1921512.539	401433.6688	LT	-605.02	169+59.88	MNO9
W W		1921288.764 1921529.731		401759.8	396.942 396.883	5609.9866 5683.4333		122456.6366 122463.0825	MNIO	5/8" IRON BAR GUARDRAIL BOLT	IPIN	1302.30 1302.11	1921489.116 1921730.108	401801.7106	LT	-973.16 -993.25	169+38.08 171+79.16	MNII
		1921591.807		400838.4	397.664	35702.3541		122175.8182	MNI2	5/8" IRON BAR WITH CAP "LITTLE 5524"	IPID	1304.67	1921792.19	400880.2962	LT	-50.42	172+37.10	MNI2
		1921790.755		400751.6	398.815	5762.9937	585	122149.3573	MNI3	5/8" IRON BAR	IPIN	1308.45	1921991.16	400793.4734	RT	OffChain	OffChain	MNI3
		1921540.362		400749.0	397.354	5686.6738		122148.5601	MN14	5/8" IRON BAR WITH CAP "JKC 6496"	IPID	1303.65	1921740.74	400790.8577	RT	38.79	171+85.25	MNI4
		1920698.252		400754.0	399.359 399.604	5429.9982 5347.3695		122150.0705	MNI6 MNI7	5/8" IRON BAR 5/8" IRON BAR	IPIN IPIN	1310.23 1311.03	1920898.543 1920627.424	400795.8136 400793.8968	RT RT	30.13 30.85	163+43.09 160+71.96	MNI6 MNI7
	-	1920427.162 1921740.887		400752.1 399922.4	406.185	5747.7939		121896.5968	MNI8	5/8" IRON BAR	IPIN	1332.63	1921941.286	399964.122	RT	866.40	173+82.16	MNIS
		1921275.155		400487.5	396.193	5605,8383		122068.9806	MN19	I" PINCHED TOP IRON PIPE	IPIPE	1299.84	1921475.505	400529.7434	RT	298.74	169+18.87	MN19
		1921247.035	4.584	400034.5	399.551	5597.2675		121930.7850	MN21	5/8" IRON BAR	IPIN	1310.86	1921447.383	400076.2994	RT	752,05	168+88.75	MN21
		1920152.438	7.496	400747.4	399.525	5263.6337	585.	122148.0811	MN26	1/2" IRON PIPE	IPIPE	1310,78	1920352.672	400789.2861	RT	32.18	157+95.40	MN26
0	0		ITEM 623	L SUMMARY ITE	RRIED TO GENERAL	QUANTITY CAR	WENTS -	TOTAL MONUM				•	*					
CENTERLINE PL																		
IC-309-3.21																		

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30 35



TOTAL NUMBER OF .

O TOTAL TAKES

O OWNERSHIPS W/ STRUCTURES INVOLVED

3 OWNERSHIPS

4 PARCELS

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

NET TAKE = GROSS TAKE - PRO IN TAKE

ALL AREAS IN ACRES

GRANTEE

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF STATE OF OHIO DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE SHOWN.

35

	OWNER	SHEET	OWN	ENO	AUDITOR'S	NECOND	TOTAL	unuss	P.R.O. IN TAKE	NET	STRUC		RESIDUE	TYPE	REMARKS		QUIRED	_
NO.	NOT USED	NO.	REC	ORD	PARCEL	AREA	P.R.O.	TAKE	TAKE	TAKE	TURE	LEFT	RIGHT	FUND	NEWARKS	воок	PAGE	
0-9	NOT USED													STATE				+-
10WD	REBECCA J. O'BRJEN	5, 8, 9	OR 1426	318	037-28-049-03-000		0.219	0.113	0.093	0.020			1.971		REMOVE 2 TREES - 20"-40"			NO.
	TOTAL				037-28-147-32-005	3.280 5.490	0.219	0.113	0.093	0.020	-		3.280 5.251					Š.
	TOTAL					0.100	0.270	0.115	0.000	0.020			0.201					= E
																		1"
11	JEFFREY M. ROZA AND CAROL D. ROZA	5, 8, 9	OR 2146	678	037-28-028-03-015	5.000		-							NO ADDITIONAL R/W REQUIRED			-
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12WD	DALE AND LINDA SCHROEDER FARMS LLC.	5, 8, 9	OR 2351	329	037-28-028-03-019	2.670	0.132	0.189	0.132	0.057		2.481						
12WD-1	DALE AND LINDA SCHROEDER FARMS LLC.,	5, 8, 9	OR 2261	115	037-28-028-03-000	5.566	0.168	0.103	0.073	0.030		5.368						R/W DESIGNER EAS
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13WD	THOMAS A. KOEHLER AND SUSAN MCBRIDE	5, 8, 9	OR 1885	274	037-28-147-32-002	4,477	0.172	0.141	0.112	0.029			4.276					
ISWU	THOMAS A. KOEHLER AND SUSAN MEDRIDE	3, 8, 9	OR 1865	214	037-28-147-32-002	4,477	0.112	0.141	0.112	0.029			4.210					
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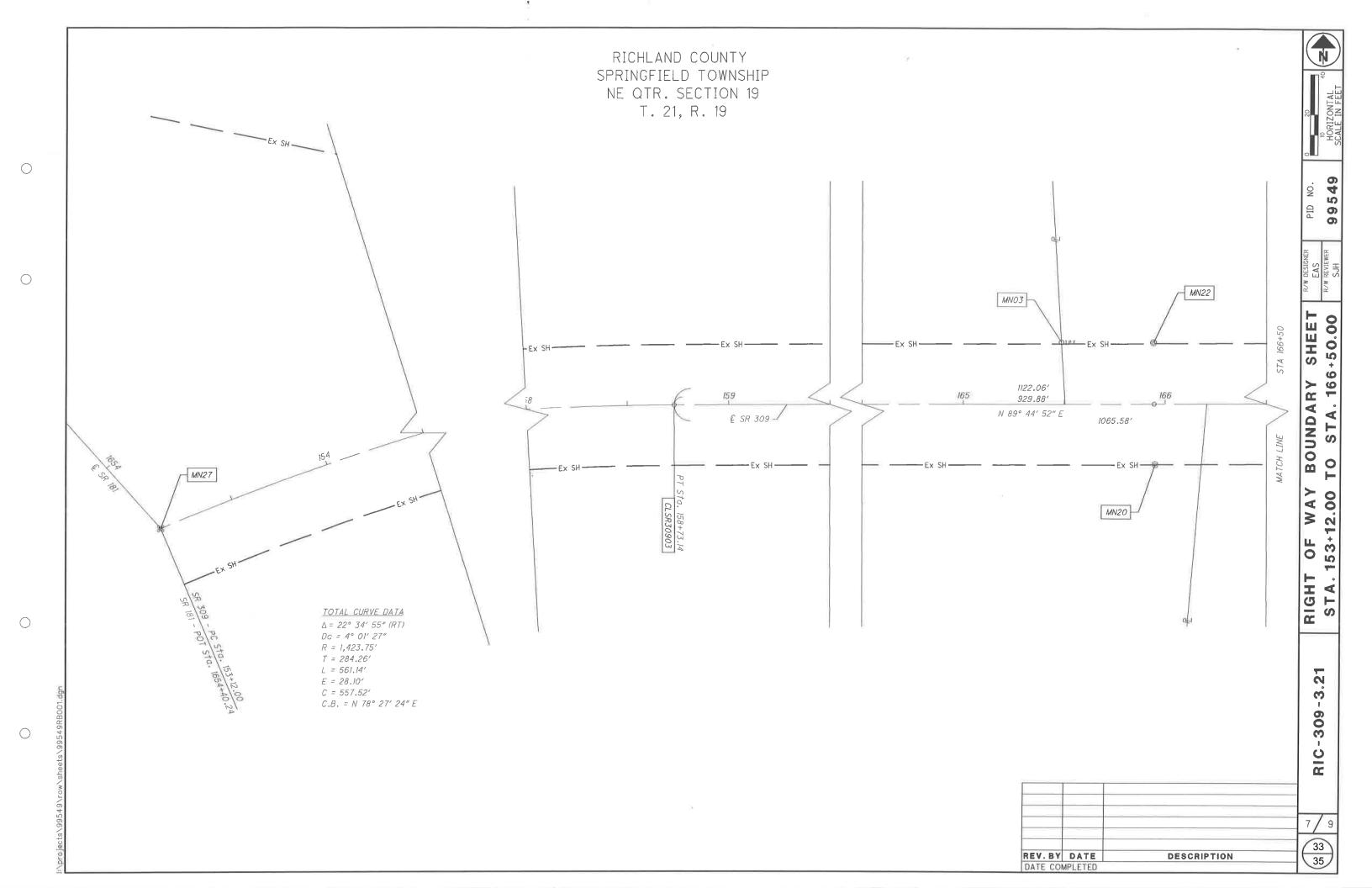
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WD = WARRANTY DEED
PRW = PROPERTY RIGHT FEE SIMPLE
SH = STANDARD HIGHWAY EASEMENT
LA = LIMITED ACCESS EASEMENT
T = TEMPORARY EASEMENT
CH = CHANNEL EASEMENT
A = AERIAL EASEMENT
SL = SLOPE EASEMENT
PRE = PROPERTY RIGHT EASEMENT

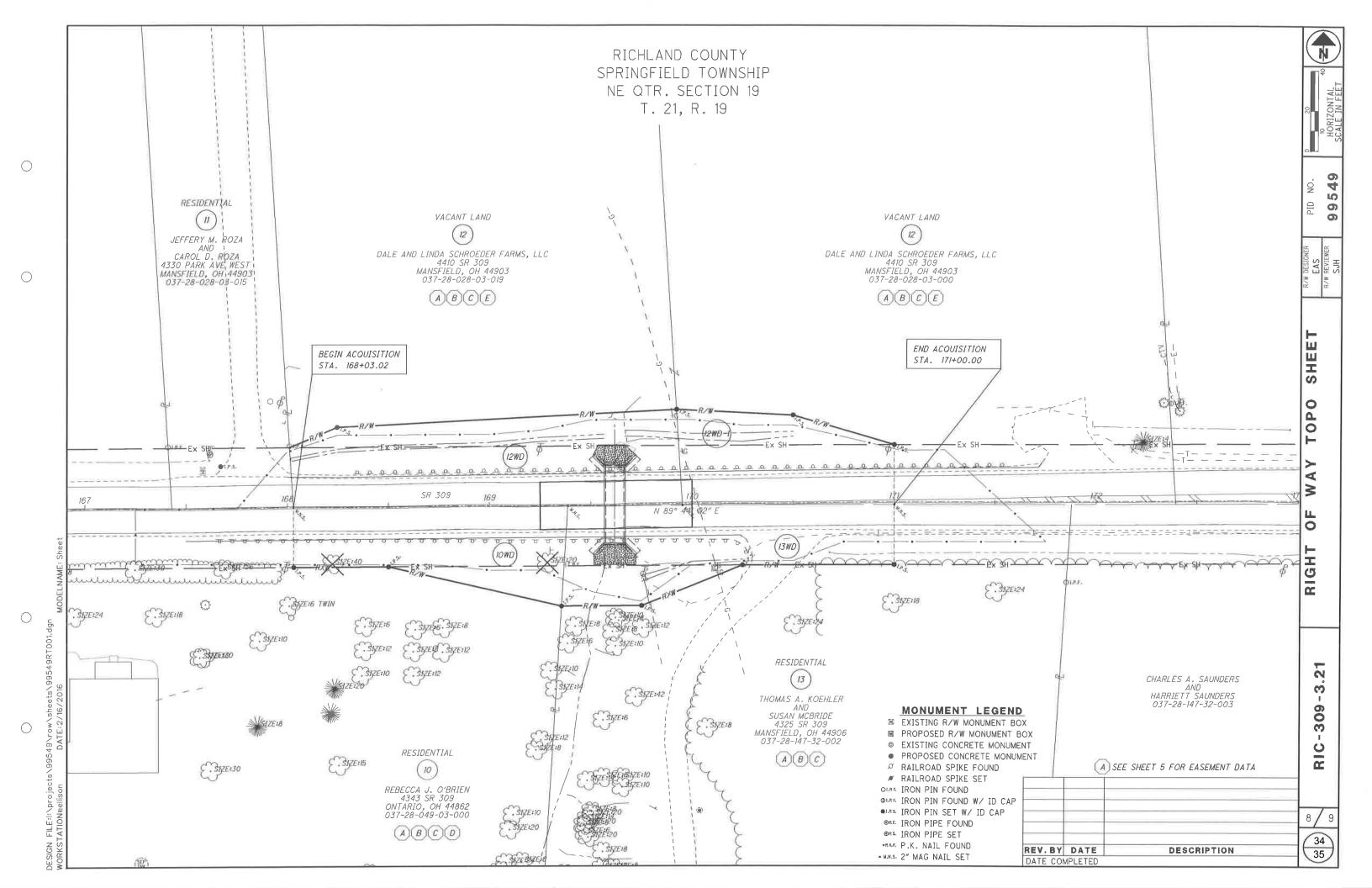
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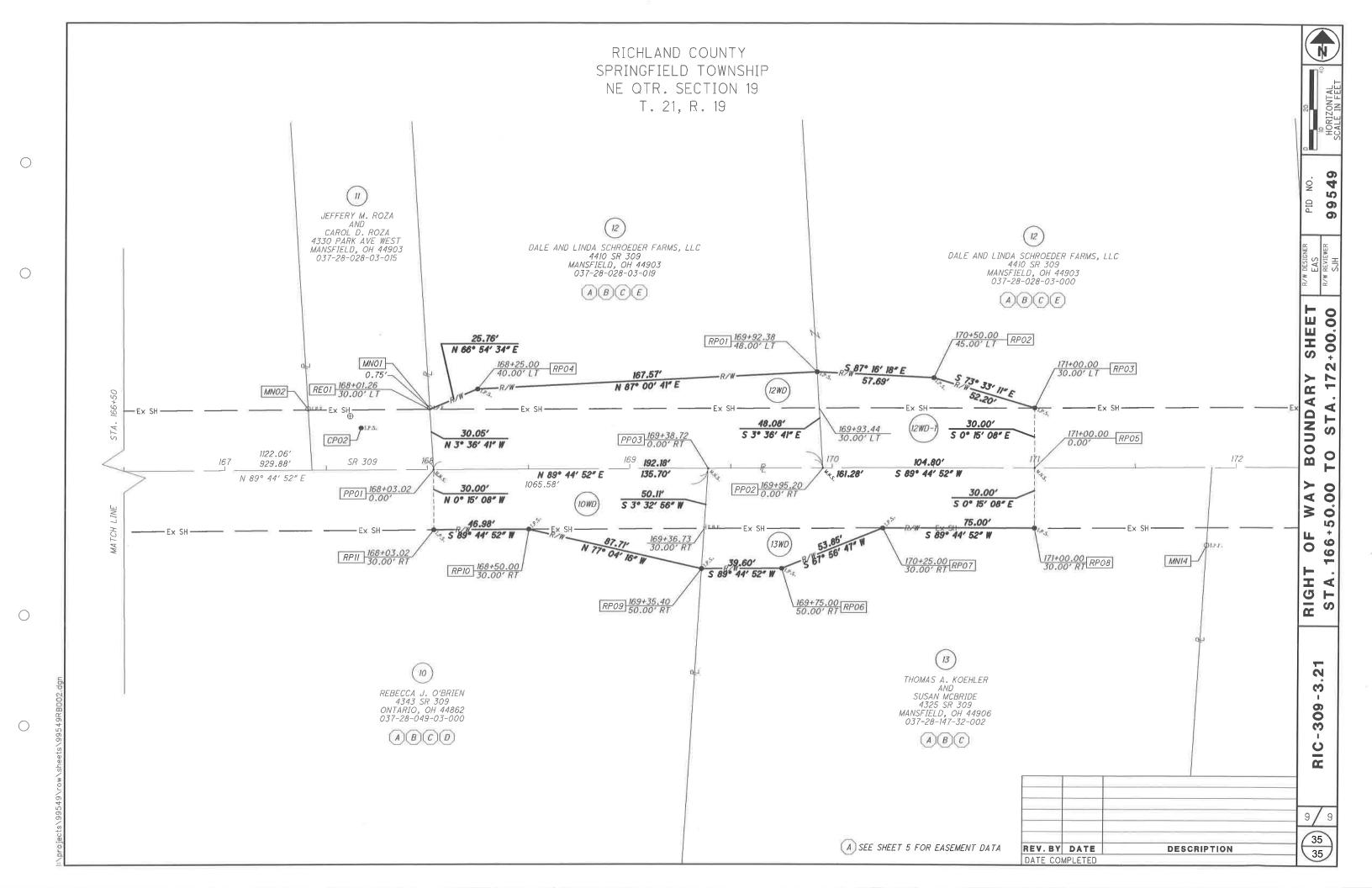
FIELD REVIEW BY EAS DATE: 1/28/16

OWNERSHIP VERIFIED BY EAS DATE: 1/27/16

DATE COMPLETED 1/28/16







SPECIAL PROVISIONS

WATERWAY PERMITS CONDITIONS

C-R-S: RIC-Culverts FY2017

PID: 99549

Date: 2/3/2017

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by ODOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 11, 2015, and executed by FHWA and ODOT.

Special Provisions: RIC-Culverts FY2017 PID 99549

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1. Waterway Permit Time Restrictions:

Regional General Permit (RGP) Section B (Maintenance) is authorized for RIC-Culverts FY2017, PID 99549. A copy of the RGP shall be kept at the work site at all times and made available to all contractors and subcontractors. The permit is effective starting: <u>February 3, 2017</u>. The permit expires: <u>October 24, 2019.</u>

For permitted work in aquatic resources (including, but not limited to: streams, wetlands, jurisdictional ditches, captured streams, lakes, ponds), the Department will consider the Contractor's submission of a reauthorization to the waterway permit end date based on project constraints. In order to be considered, the Contractor must submit a justification to the Engineer at least 90 days prior to the waterway permit end date. The Engineer will submit the request for a time extension to ODOT-OES-WPU for consideration and coordination with the U.S. Army Corps of Engineers (USACE), Ohio Environmental Protection Agency (OEPA), U.S. Coast Guard (USCG), U.S. Fish and Wildlife Service (USFWS), and Ohio Department of Natural Resources (ODNR).

2. Deviations From Permitted Construction Activities

No deviation from the requirements for work in aquatic resources depicted in the plans, Special Provisions, and/or working drawings may be made unless a modification has been submitted to ODOT-OES-WPU and approved by the appropriate agencies (i.e., USACE, OEPA, USCG, ODNR, and USFWS).

For emergency situations resulting in unanticipated impacts to aquatic resources, provide notification (verbal or written) to the Engineer as soon as possible following discovery of the situation. Written notification to the Engineer and notification to the ODOT-OES-WPU (614-466-7100) must be made within 24 hours.

For non-emergency situations, notify the Engineer in writing for submission to the ODOT-OES-WPU (614-466-7100) for consideration and coordination with the appropriate agencies. Notification must be made at least 90 days prior to planned, non-permitted activities. Consideration of the requested deviation is at the discretion of the Director and must be coordinated with the appropriate regulatory agencies.

3. In-Stream Work Restrictions

Work in the following aquatic resources is further restricted as follows:

Stream Name /Description	Location (Station)	Work restriction dates (No in- stream work permitted)
UNT (RIC-30-15.32)	STA 11+89 to STA 12+71	None
UNT (RIC-309-3.21)	STA 169+25 to STA 170+00	None

UNT = Unnamed Tributary

In-stream work has been defined as the placement and/or removal of fill materials (temporary or permanent) below ordinary high water of a stream. Examples of "fill" include, but are not limited to: bridge piers, abutments, culverts, rock channel protection, scour protection and temporary work pads.

Fills placed within a stream identified in the above table (outside of the work restriction dates) can continue to be worked from during the work restriction dates, but cannot be expanded, removed, or otherwise modified (below ordinary high water) until once again outside of the work restriction dates.

Special Provisions: RIC-Culverts FY2017 PID 99549

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4. Materials:

Materials utilized in or adjacent to aquatic resources on this project for temporary or permanent fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Broken asphalt is specifically excluded. Chromated Copper Arsenate (CCA), creosote, and other pressure treated lumber shall not be used in structures that are placed in aquatic resources.

5. Cultural Resources

If archeological sites or human remains are discovered, cease all work in the immediate area and notify the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-Cultural Resource Section at 614-466-7100. In the event of human remains are identified by OES-Cultural Resources Section the Engineer shall also contact the Richland County Sheriff's Office at (419) 774-5881.

6. Aquatic Resource Demarcation:

All aquatic resources indicated on the plans shall be demarcated in the field as per SS 832 prior to site disturbance. Specifically, only the locations and quantities in the table below are authorized to be impacted.

-Resource ID	Resource Location	Impact Location (Station)	Impact Amount
Unnamed Tributary	RIC-30-15.32	STA 11+89 to STA 12+71	15 feet (0.004 acre) temporary impact
Unnamed Tributary	RIC-30-15.32	STA 11+89 to STA 12+71	108 feet (0.03 acre) permanent impact
Unnamed Tributary	RIC-309-3.21	STA 169+25 to STA 170+00	25 feet (0.009 acre) temporary impact
Unnamed Tributary	RIC-309-3.21	STA 169+25 to STA 170+00	60 feet (0.03 acre) permanent impact

The remainder of the aquatic resources must be demarcated as to ensure avoidance. The fence shall remain in place and be maintained throughout the construction process. Following the completion of the project, the fence and posts shall be removed.

7. Spill containment:

Provide and Maintain an Oil Spill Kit with a minimum capacity of 65 gallons. The Spill Kit shall contain:

- 6 3 in. X 8 ft. Oil only socks
- 4 18 in. X18 in. Oil only pillows
- 2 5 in. X 10ft. Booms
- 50 16in. X 20 in. Oil only pads
- 10- Disposable Bags
- 1- 65 Gallon drum with lid
- 25 pounds of Granular Oil Absorbent

The Oil Spill Kit shall be located within 150 feet of any equipment working in a stream or wetland. The oil Spill Kit shall be maintained for the life of the contract. Any materials utilized during the project will be replaced within 48 hours. All costs associated with furnishing and maintaining the above referenced spill containment kit is incidental to work.

Special Provisions: RIC-Culverts FY2017 PID 99549

8. Blasting:

State law requires notification to the Ohio Department of Natural Resources should blasting be required within or near stream channels (See ORC 1533.58 & CMS 107.09). Notify Engineer, in writing, for submission to ODOT-OES-WPU (614-466-7100) for coordination with ODNR.

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9. Bridge Inspection:

Prior to the removal of bridge structures, the underside must be carefully examined for the presence of birds and bats. Should any birds or bats be found roosting on the underside of the bridge, the Contractor is required to notify the Engineer for coordination with ODOT-OES-WPU (614-466-7100).

10. Project Inspection:

Inspection of Work may include inspection by representatives of other government agencies or railroad corporations that pay a portion of the cost of the Work or regulate the Work through State and Federal law. Comments from the representatives of these agencies shall be directed to the Engineer. Please forward a copy to ODOT-OES-WPU (614-466-7100).

11. Temporary Access Fills (Stream and River Crossings and Fills)

Special Provisions Notes:

Definitions:

Hydraulic Opening

The cross sectional area allowing an unimpeded discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM)*.

Standard Temporary Discharge

The hydraulic opening providing a capacity for a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the OHWM shall be known as the Standard Temporary Discharge. The U.S. Geologic Service publication "Techniques for estimating Selected Streamflow Characteristics of Rural Unregulated Streams in Ohio" provides equations that estimate monthly flow for Ohio Waterways These flows are also available in a web application by USGS StreamStats, (http://water.usgs.gov/osw/streamstat/ohi.html).

Average Monthly Flow

The average monthly flow represents the estimated "normal" flow.

Temporary Access Fills (TAFs)

In Streams and Rivers may include, but are not limited to, causeways, cofferdams (as described by other items of work), access pads, temporary bridges, etc. The Contractor will make every attempt minimize disturbance to water bodies, stream banks, stream beds, and approach sections during the construction, maintenance, and removal of the TAFs. Fording of streams and rivers is prohibited. Construct TAFs in such a manner that will maintain flows, minimize upstream flooding, and avoid overtopping the TAF on a regular basis. TAFs shall be designed and constructed so that the hydraulic opening provides capacity for a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM)*.

Requirements

Special Provisions: RIC-Culverts FY2017 PID 99549

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21 calendar days prior to the initiation of any in-stream work, provide the Engineer with working drawings that include:

- Plan view drawing (200 scale or less) showing the location of all jurisdictional temporary fill proposed for use on the project.
- Scaled Cross section and profile drawing showing the OHWM and the proposed compliant hydraulic opening.
- A description of the installation and staging of all temporary jurisdictional fill over the life of the contract.
- A description of the removal of all jurisdictional temporary fill and restoration of the channel and all areas impacted by the jurisdictional temporary fill.
- A schedule outlining the timing of the placement and removal of all TAF.
- Have an Ohio Registered Engineer prepare, sign, seal, and date the working drawings. Have a second Ohio Registered Engineer check, sign, and seal and date the working drawings. The preparer and checker are two different Engineers. Include the following statement on the working drawings:

"These working drawings were prepared in compliance with the terms of the Regional General Permit and all contract documents."

- Include supporting hydraulic calculations developed by the engineer(s) who sealed the working drawings.
- Do not begin in-stream work until the Engineer has accepted the working drawings.

If the OHWM is not shown on the plans, the Department will establish the OHWM based on the definition of OHWM (as defined in SS 832) or the peak discharge from the 2 year event, using the method described in the most current version of the Department's Location and Design Manual Volume II.

If the Contractor proposes a TAF which does not provide for the Standard Temporary Discharge (discharge equal to twice the highest monthly flow without producing a rise in the backwater), the Contractor is required to coordinate the request for the contractor's proposed TAF with the Engineer and the ODOT Office of Environmental Services (OES). The Department makes no guarantee to grant the request. The contractor's proposed TAF request will be coordinated by OES with the USACE and the OEPA, as appropriate.

In addition to the requirements described in SS 832, supply the Engineer/OES with the following:

- 1. A plan and profile showing the temporary access fill(s) with the OHWM.
- 2. Cross section showing the hydraulic opening and the anticipated discharge flow.
- 3. A restoration plan for the area affected by the temporary access fill(s).
- 4. A schedule outlining the timing of the placement and removal of the temporary access fill(s).

The time frame allowed for the coordination of the contractor's proposed TAF will be a minimum of 60 days. Installation of any jurisdictional fill without a 404 Permit authorized by the USACE is strictly prohibited. All direct coordination with the USACE and/or OEPA will be performed through OES.

TAFs Construction and Payment

Begin planning and installing causeways and access fills as early in construction as possible to avoid conflicts with 404/401 permits or other environmental commitments that have been included in the construction plans.

TAFs in Streams and Rivers may include, but are not limited to, causeways, cofferdams, access pads, temporary bridges, etc. Make every attempt minimize disturbance to water bodies, stream banks, stream beds, and approach sections during the construction, maintenance, and removal of the TAFs. Make every attempt to minimize disturbance to water bodies during construction, maintenance, and removal of the causeway and access fills. Construct the causeway and access fills as narrow as practical. Install instream conduits parallel to the stream banks. Make the causeway and access fills in shallow areas rather than deep pools where possible. Minimize clearing, grubbing, and excavation of stream banks, bed, and approach sections. Construct the causeway and access fills as to not erode stream banks or allow sediment deposits in the channel.

Special Provisions: RIC-Culverts FY2017 PID 99549

Prior to the initiation of any in-stream work, establish a monument upstream of proposed temporary crossing or temporary construction access fill to visually monitor the water elevation in the waterway where the fill is permitted. Maintain the monument throughout the project. Provide a visual mark on the monument that identifies the elevation 1 foot above the OHWM. If the OHWM is not shown on the plans, the Department will establish the OHWM based on the definition of OHWM (SS 832.02) or the peak discharge from the 2 year event, using the method described in the most current version of the Department's Location and Design Manual Volume II.

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Ensure that the monument can be read from the bank of the waterway. Have this elevation set and certified by an Ohio Registered Surveyor.

TAFs placed by the contractor above the OHWM are not subject to the 404/401 permit constraints. All costs associated with furnishing and maintaining the above referenced monument is incidental to the work.

Should the water elevation of the waterway, exceed the elevation 1 foot above OHWM, the Department will compensate the Contractor for repair of any resulting damage to the permitted temporary access fill up to the elevation of 1 foot above the OHWM, except as noted. Follow the requirements in Item 502 for Structures for Maintaining Traffic and in Item 503 for Cofferdams and any modifications to these items as shown in the plans. The Department will not pay for repair and maintenance of temporary access structures that are related to the construction access fill.

Should the water elevation of the waterway exceed the elevation shown on the monument, the Department will recognize this event as an excusable, non-compensable delay in accordance with Section 108.06 of the Construction & Materials Specifications.

Construct the causeway and fills, not including cofferdams and temporary bridges, to a water elevation at least 1 foot (0.3 m) above the OHWM. If more than one-third the width of the stream is filled, then use culvert pipes to allow the movement of aquatic life. Ensure that any ponding of water behind the causeway and access fills will not damage property or threaten human health and safety.

The following minimum requirements apply to TAFs where culverts are used.

- A. Furnish culverts on the existing stream bottom.
- B. Avoid a drop in water elevation at the downstream end of the culvert.
- C. Furnish a sufficient number of culverts in addition to stream openings to providing a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the OHWM.
- D. Furnish culverts with a minimum diameter of 18 inches (0.5 m).

For all fill and surface material placed in the channel, around the culverts, or on the surface of the causeway and access fills furnish clean, non-erodible, nontoxic dumped rock fill, Type B, C, or D, as specified in C&MS 703.19.B. Extend rock fill up the slope from original stream bank for 50 feet (10 m) to catch and remove erodible material from equipment.

When the work requiring the TAFs is complete all portions of the TAF (including all rock and culverts) will be removed in its entirety. The material will not be disposed in other waters of the US or isolated wetland. The stream bottom affected by the causeway and access fills will be restored to its pre-construction elevations. The TAF will not be paid as a separate item but will be included by the Contractor as part of the total project cost.

Unless specific TAFs compensation is included in the plans, all environmental protection and control associated with the 404/401 permit activities, including but not limited to TAFs, are incidental to the work within the boundaries of the 404/401 permit or as otherwise identified in the 404/401 permit application.

Special Provisions: RIC-Culverts FY2017 PID 99549

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12. Excavation Activities:

Excavated material will be placed at the upland site and disposed of in such a manner that sediment and runoff to streams and other waters is controlled and minimized. If any changes to the proposed work are deemed necessary, you must notify and coordinate with the ODOT-OES-WPU (614-466-7100).

13. Bridge Demolition Debris:

Demolition debris from bridge removal activities is considered a fill activity by the USACE and Ohio EPA and placement must not exceed 72 hours within waters of the US. If removal of debris material cannot be achieved within 72 hours, please contact ODOT-Office of Environmental Services-Waterway Permits Unit at 614-466-7100.

Version: 2014



U S Army Corps of Engineers Huntington District

Public Notice

In reply refer to Public Notice No.	Issuance Date:
200800689-1	October 24, 2014
Stream:	Closing Date:
N/A	October 24, 2019

Please address all comments and inquiries to:
U.S. Army Corps of Engineers, Huntington District

ATTN: CELRH-RD-S-OT Public Notice No. (reference above)
502 Eighth Street

Huntington, West Virginia 25701-2070 Phone: (304) 399-5710

REGIONAL GENERAL PERMIT FOR THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION

In accordance with 33 CFR 325.5(c)(1), on May 16, 2014, the District Engineer of the Huntington District, U.S. Army Corps of Engineers, issued a public notice proposing a Regional General Permit (RGP) for the Ohio Department of Transportation that would authorize certain linear transportation and maintenance projects pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

As of the date of this public notice, the RGP is effective and authorizes activities in waters of the United States including work, structures, and the discharge of fill (both temporary and permanent) associated with linear transportation projects and the maintenance of existing transportation infrastructure conducted by the Ohio Department of Transportation in the State of Ohio. Conditions and limitations for the activities authorized by this RGP are attached. The permit remains in effect for a period of five years unless modified or rescinded.

This RGP is not valid until the appropriate state agency certifies the discharge does not violate state water quality standards. In response to the May 16, 2014 public notice, on August 29, 2014, the Ohio Environmental Protection Agency granted Section 401 Water Quality Certification with general and special limitations and conditions for this RGP. In addition, by letter dated July 2, 2014, the Ohio Department of Natural Resources-Office of Coastal Management provided conditional concurrence with the Federal Consistency Determination.

If you have any questions regarding this public notice, please contact Mr. Peter Clingan by phone at (614) 692-4654, by mail using the address listed above, or by email at Peter.M.Clingan@usace.army.mil.

/S/

Ginger Mullins, Chief Regulatory Division

(O)

Categories of Activities Covered by the Regional General Permit (RGP): This RGP authorizes activities in waters of the U.S. including work, structures, and the discharge fill (both temporary and permanent) associated with linear transportation projects and the maintenance of existing transportation infrastructure conducted by the Ohio Department of Transportation in the State of Ohio. Authorized activities would include the following categories of activities, referred to as RGP A and RGP B.

RGP A - Linear Transportation Projects: Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads and highways) in waters of the U.S. The discharge cannot cause the loss of greater than 1/2 acre of waters of the U.S. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project. Such modifications must be in the immediate vicinity of the project.

Examples of authorized activities include the discharge of fill material or structures into waters of the U.S. associated with new roadway alignments, roadway realignments, construction of roadway embankments and bridge abutments, installation of additional traffic lanes to existing roadways, intersection improvements, new bridges, bike paths, and roadway and railway grade separations.

Excluded activities include non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, and construction of staging, borrow, and disposal sites.

RGP A also authorizes discharges of fill material into waters of the U.S. associated with temporary structures, fills, and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work and discharges into waters of the U.S., including cofferdams, are necessary for construction activities, access fill, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Bridge demolition debris, with subsequent removal, may be used for temporary work/access pads provided it is composed of suitable material.

<u>Notification</u>: The permittee must submit a Pre-Construction Notification (PCN) to the District Engineer prior to commencing the activity if:

- (1) the loss of waters of the U.S. exceeds 1/10 acre;
- (2) there is a discharge in a special aquatic site, including wetlands;
- (3) the activity is in a Section 10 water;

- (4) the total discharge of fill into a stream is greater than 500 linear feet for combined ephemeral, intermittent and perennial streams or;
- (5) the combined temporary and permanent discharges of fill into perennial and intermittent streams, for a single and complete crossing, is greater than 300 linear feet;
- (6) the project will involve the use of dredged material as temporary fill;
- (7) the removal of bridge demolition debris will exceed 72 hours from the time of placement into a water of the U.S; or
- (8) any proposed temporary or permanent fill activity is located within the flowage easement of a flood control facility as defined in definitions section at the end of RGP.

Note: the discharge of fill shall be measured linearly from upstream to downstream, including the length of permanent or temporary stream impoundments, when calculating the total length of stream affected.

<u>RGP B - Maintenance</u>: RGP B authorizes the maintenance of existing transportation infrastructure conducted by the Ohio Department of Transportation in the State of Ohio as follows:

- (a) RGP B authorizes the discharge of fill material into waters of the U.S. associated with the repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure, or fill, or any currently serviceable structure or fill authorized by 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. Any stream channel modification is limited to the minimum necessary for the repair, rehabilitation, or replacement of the structure or fill; such modifications, including the removal of material from the stream channel, must be immediately adjacent to the project or within the boundaries of the structure or fill. This RGP authorizes the repair, rehabilitation, or replacement of those structures or fill destroyed or damaged by storms, floods, fire or other discrete events, provide the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes, or tornadoes, this two-year limit may be waived by the District Engineer, provided the permittee can demonstrate funding, contract, or other similar delays.
- (b) Excavation of accumulated sediments and debris does not require authorization from the Corps if there is no subsequent discharge of the dredged material into a water of the U.S., unless the dredging activity occurs in a Section 10 water. RGP B authorizes the removal of accumulated sediments and debris from Section 10 waters in the vicinity of existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.) and/or the placement of new

or additional riprap into waters of the U.S. to protect the structure. The removal of sediment is limited to the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend more than 200 feet in any direction from the structure. This 200 foot limit does not apply to maintenance dredging to remove accumulated sediments blocking or restricting outfall and intake structures or maintenance dredging to remove accumulated sediments from canals associated with outfall and intake structures. All dredged or excavated materials must be deposited and retained in an area that has no waters of the United States unless otherwise specifically approved by the District Engineer under separate authorization. The placement of new or additional riprap into waters of the U.S. must be the minimum necessary to protect the structure or to ensure the safety of the structure and cannot exceed 300 feet from the structure in either direction. Any bank stabilization measures not directly associated with the structure will require a separate authorization from the District Engineer.

(c) RGP B also authorizes temporary structures, fills, and work necessary to conduct the maintenance activity. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills within waters of the U.S. must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

Bridge demolition debris, with subsequent removal within 72 hours, may be used for temporary work/access pads provided it is composed of suitable material.

This RGP does not authorize new stream channelization or stream relocation projects.

Note: This RGP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Clean Water Act Section 404(f) exemption for maintenance.

Notification: The permittee must submit a PCN to the District Engineer prior to commencing if:

- (1) the activity is in a Section 10 water;
- (2) the activity is authorized by paragraph (b) of RGP B. The PCN must include information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals;
- (3) the activity requires the use of vertical sheet piling and closed structures in the special habitat waters of Lake Erie (See General Condition 22 Designated Critical Resource Waters.);
- (4) the maximum length of temporary discharges of fill material into perennial and intermittent streams as measured upstream to downstream exceeds 300 feet;

- (5) the project will involve the use of dredged material as temporary fill;
- (6) the removal of bridge demolition debris will exceed 72 hours from the time of placement into a water of the U.S.; or
- (7) any proposed temporary or permanent fill activity is located within the flowage easement of a flood control facility as defined in the definitions section of this RGP.

RGP General Conditions: To qualify for authorization under the RGP, the permittee must comply with the following general conditions, as appropriate, in addition to case-specific conditions imposed by the District Engineer for a specific project.

1. Navigation.

- (a) No activity may cause more than a minimal adverse effect on navigation.
- (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.
- (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
- 2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.
- 3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.
- 4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.
- 5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations.

- 6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged into waters of the U.S. must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act). However, bridge demolition debris may be used for temporary work/access pads provided it is composed of suitable material, free of exposed re-bar or other steel, and stabilized to prevent erosion.
- 7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.
- 8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.
- 9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).
- 10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.
- 11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.
- 12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. The permittee is encouraged to perform work within waters of the United States during periods of low-flow or no-flow.
- 13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.
- 14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable RGP general conditions, as well as any activity-specific conditions added by the District Engineer to a specific RGP verification.

- 15. Single and Complete Project. The activity must be a single and complete project as defined in the definition section of this RGP. RGP A or RGP B cannot be used more than once for the same single and complete project.
- 16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

A PCN is required for work in components of the National Wild and Scenic River System. The following are components of the National Wild and Scenic River System:

Big and Little Darby Creeks (National Wild and Scenic River System):

- Big Darby Creek from Champaign-Union County line downstream to the Conrail railroad trestle and from the confluence with the Little Darby Creek downstream to the Scioto River.
- Little Darby Creek from the Lafayette-Plain City Road bridge downstream to within 0.8 mile from the confluence with Big Darby Creek.
- Total designation is approximately 82 miles

Little Beaver Creek (National Wild and Scenic River System):

- Little Beaver Creek main stem, from the confluence of West Fork with Middle Fork near Williamsport to mouth.
- North Fork from confluence of Brush Run and North Fork to confluence of North Fork with main stem at Fredericktown.
- Middle Fork from vicinity of Co. Rd. 901 (Elkton Road) bridge crossing to confluence of Middle Fork with West Fork near Williamsport.
- West Fork from vicinity of Co. Rd. 914 (Y-Camp Road) bridge crossing east to confluence of West Fork with Middle Fork near Williamsport.
- Total designation is 33 miles

Little Miami (National Wild and Scenic River System)

- Little Miami River St. Rt. 72 at Clifton to the Ohio River
- Caesar Creek: lower two miles of Caesars Creek.
- Total designation is 94 miles
- 17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species.

- (a) No activity is authorized under any RGP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any RGP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.
- (b) The Federal Highway Administration (FHWA) may be the lead federal agency with ultimate responsibility to ensure compliance with Section 7 of the ESA for many projects conducted by the Ohio Department of Transportation under this RGP. If the FHWA is the lead Federal Agency and if a PCN is required, the PCN must include documentation demonstrating compliance with Section 7 of the Endangered Species Act. The District Engineer will review the documentation and determine whether it is sufficient to address Endangered Species Act compliance for the activity, or whether additional Section 7 consultation is necessary.
- (c) If FHWA is not the lead federal agency, the permittee must submit a PCN to the District Engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the District Engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the PCN must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The District Engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete PCN. In cases where the applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.
- (d) As a result of formal or informal consultation with the USFWS, the District Engineer may add species-specific conditions to a specific RGP verification.
- (e) Authorization of an activity by an RGP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering. Information on the location of threatened and endangered species and their critical

habitat can be obtained directly from the office of the U.S. FWS or their web page at http://www.fws.gov/ or http://www.fws.gov/ipac.

Due to the potential presence of federally threatened or endangered species or their habitats, a PCN is required for all work in the following waterway or township of the corresponding county:

County	Waterway	Township
Adams	Ohio Brush Creek, Ohio River, Scioto Brush Creek, South Fork Scioto Brush Creek, West Fork Ohio Brush Creek	
Allen	Auglaize River, Cranberry Creek, Ottawa River, Riley Creek, Sugar Creek	
Ashtabula	Grand River, Pymatuning Creek	
Athens	Ohio River	
Auglaize	Auglaize River, Pusheta Creek, St. Marys River	
Belmont	Ohio River	
Brown	Eagle Creek, East Fork Eagle Creek, East Fork Little Miami River, East Fork Whiteoak Creek, Ohio River, Straight Creek, West Fork Eagle Creek, Whiteoak Creek	-
Butler	Dicks Creek, Dry Fork Whitewater River, Elk Creek, Four Mile Creek, Great Miami River, Indian Creek, Sevenmile Creek	
Champaign	Chapman Creek, Kings Creek, Mad River, Nettle Creek	
Clark	Beaver Creek, Chapman Creek, Honey Creek, Little Miami River, Mad River, Mud Run	Bethel
Clermont	East Fork Little Miami River, Indian Creek, Little Miami River, O'Bannon Creek, Ohio River, Stonelick Creek	
Clinton	Anderson Fork, Cowan Creek, Little East Fork, Rattlesnake Creek, Todd Fork, Little Miami River	
Columbiana	Ohio River	
Coshocton	Doughty Creek, Killbuck Creek, Kokosing River, Mill Creek, Mohican River, Muskingum River, Tuscarawas River, Wakatomika Creek, Walhonding River, White Eyes Creek, Wills Creek	
Crawford	Broken Sword Creek, Olentangy River, Sandusky River, Sycamore Creek	
Darke	Greenmile Creek, Painter Creek, Stillwater River, Swamp Creek, West Branch Greenmile Creek	
Defiance	Auglaize River, Gordon Creek, Lick Creek, Lost Creek, Maumee River, Mud Creek, North Powell Creek, South Powell Creek, St. Joseph River, Tiffin River	Milford

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Delaware	Alum Creek, Big Walnut Creek, Bokes Creek, Mill	
	Creek, Olentangy River, Scioto River, Whetstone Creek	
Fairfield	Clear Creek, Hocking River, Rush Creek, Salt Creek, Walnut Creek	
Fayette	Compton Creek, Deer Creek, East Fork Paint Creek, North Fork Compton Creek, Paint Creek, Rattlesnake Creek, Sugar Creek	
Franklin	Alum Creek, Big Darby Creek, Big Walnut Creek, Blacklick Creek, Hellbranch Run, Little Darby Creek, Olentangy River, Scioto River, Walnut Creek	
Fulton	Bad Creek, Brush Creek, Mill Creek, Swan Creek, Tenmile Creek, Tiffin River	
Gallia	Ohio River	
Greene	Caesar Creek, Little Miami River, Mad River, Massies Creek, Mud Run	
Hamilton	Dry Fork Whitewater River, Great Miami River, Mill Creek, Ohio River, West Fork Mill Creek, Whitewater River	
Hancock	Blanchard River, Eagle Creek, Ottawa Creek, Riley Creek	
Hardin	Blanchard River, Ottawa River, Panther Creek, Scioto River, Taylor Creek	Blanchard, Jackson
Henry	Bad Creek, Beaver Creek, Brush Creek, Lost Creek, Maumee River, South Turkeyfoot Creek, Turkeyfoot Creek	
Highland	Baker Fork, East Fork Little Miami River, East Fork Whiteoak Creek, Lees Creek, Paint Creek, Rattlesnake Creek, Rocky Fork, Whiteoak Creek	
Holmes		Prairie
Jefferson	Ohio River	
Lake	Grand River	
Lawrence	Ohio River	
Logan	Cherokee Mans Run, Great Miami River, Mad River, Mill Creek, Muchinippi Creek, Rush Creek, Stoney Creek	
Lucas	Maumee River, Swan Creek, Tenmile Creek	Jerusalem
Madison	Big Darby Creek, Bradford Creek, Deer Creek, Little Darby Creek, Paint Creek, Spring Fork, Walnut Run	
Marion	Little Scioto River, Mud Run, Olentangy River, Rush Creek, Scioto River, Tymochtee Creek	
Meigs	Ohio River	
Mercer	Beaver Creek, Black Creek, Burntwood Creek, Chickasaw Creek, Goldwater, Little Beaver Creek, Little Black Creek, Mile Creek, St. Marys River, Twelvemile Creek, Wabash River	

Miami	Great Miami River, Greenville Creek, Honey Creek, Lost	
2,42,44	Creek, Ludlow Creek, Painter Creek, Spring Creek,	
	Stillwater River	
Monroe	Ohio River	
Montgomery	Great Miami River, Little Bear Creek, Mad River,	
	Stillwater River, Twin Creek, Wolf Creek	
Morgan	Muskingum River	
Morrow	Alum Creek, Big Walnut Creek, Kokosing River,	
	Olentangy River, Shaw Creek, Whetstone Creek	
Muskingum	Muskingum River	
Ottawa	Cedar Creek, Crane Creek, Muddy Creek, Nine Mile	
	Creek, Packer Creek, Portage River, Sugar Creek,	
	Terwilegars Pond, Toussaint Creek, Turtle Creek, Wolf	
	Creek	
Paulding	Auglaize River, Blue Creek, Dog Creek, Flatrock Creek,	
	Gordon Creek, Hagerman Creek, Hoaglin Creek, Little	
	Auglaize River, Maddox Creek, Maumee River, Prairie	
	Creek, Town Creek	
Pickaway	Big Darby Creek, Big Walnut Creek, Deer Creek, Scioto	
	River, Scippo Creek, Walnut Creek	
Pike	Beaver Creek, Crooked Creek, Peepee Creek, Scioto	
·	River, Sunfish Creek	
Portage		Aurora
Preble	Bantas Fork, Four Mile Creek, Price Creek, Sevenmile	
	Creek, Twin Creek	
Putnam	Auglaize River, Blanchard River, Cranberry Creek, Little	
	Auglaize River, North Powell Creek, Ottawa River, Plum	
	Creek, Riley Creek, South Powell Creek, Sugar Creek	
Ross	Buckskin Creek, Deer Creek, Kinnikinnick Creek, Little	
	Salt Creek, North Fork Paint Creek, Paint Creek, Pigeon	
	Creek, Salt Creek, Scioto River, Walnut Creek	
Sandusky	East Branch Sandusky River, Green Creek, Little Muddy	Riley
Sandasky	Creek, Muddy Creek, Muskellunge Creek, Nine Mile	
	Creek, Pickerel Creek, Portage River, Sandusky River,	
	South Creek, Sugar Creek, Toussaint Creek, Wolf Creek	
	(Portage River), Wolf Creek (Sandusky River)	
Scioto	Little Scioto River, Ohio River, Pine Creek, Rocky Fork,	Rush, Union
	Scioto Brush Creek, Scioto River, South Fork Scioto	
	Brush Creek, Turkey Creek	-
Seneca	East Branch Sandusky River, Green Creek, Honey Creek,	
	Rock Creek, Sandusky River, Wolf Creek	
Shelby	Great Miami River, Leatherwood Creek, Loramie Creek,	

Trumbull	Grand River, Pymatuning Creek	
Union	Big Darby Creek, Bokes Creek, Little Darby Creek, Mill Creek, Rush Creek	
Van Wert	Black Creek, Blue Creek, Dog Creek, Hagerman Creek, Hoaglin Creek, Little Auglaize River, Maddox Creek, St. Marys River, Town Creek	
Warren	Clear Creek, Great Miami River, Little Miami River, Todd Fork	
Washington	Muskingum River, Ohio River	
Wayne		Clinton, Wooster
Williams	Bear Creek, Brush Creek, Clear Fork, Eagle Creek, East Branch St. Joseph River, Fish Creek, Lick Creek, Mill Creek, Nettle Creek, St. Joseph River, Tiffin River, West Branch St. Joseph River	Bridgewater, Center, Florence, Jefferson, Madison, Northwest, St. Joseph, Superior
Wood	Beaver Creek, Brush Creek, Bull Creek, Cedar Creek, Crane Creek, Cutoff Ditch, East Branch Portage River, Maumee River, Middle Branch Portage River, Portage River, Rocky Ford, South Branch Portage River, Toussaint Creek	
Wyandot	Broken Sword Creek, Sandusky River, Sycamore Creek, Tymochtee Creek	

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act

20. Historic Properties.

- (a) In cases where the District Engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.
- (b) The Federal Highway Administration (FHWA) may be the lead federal agency with ultimate responsibility to ensure compliance with Section 106 of the NHPA for many projects conducted by the Ohio Department of Transportation under this RGP. If the FHWA is the lead Federal Agency and if a PCN is required, the PCN must include documentation demonstrating compliance with Section 106 of the National Historic Preservation Act. The District Engineer will review the documentation and determine whether it is sufficient to address Section 106 compliance for the activity, or whether additional section 106 consultation is necessary.
- (c) If FHWA is not the lead federal agency, the permittee must submit a PCN to the District Engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such

activities, the PCN must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing PCNs, District Engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The District Engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the District Engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

- (d) Prospective permittees should be aware that Section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.
- 21. Discovery of Previously Unknown Remains and Artifacts. While accomplishing the activity authorized by this RGP, if any previously unknown historic, cultural or archeological remains and artifacts (human remains, funerary objects, sacred objects, and objects of cultural matrimony/patrimony, etc.) are inadvertently discovered, work shall cease and the following conditions shall apply:
- (a) If the FHWA is the lead Federal agency, the permittee must contact the Corps and the FHWA. The FHWA will be responsible for the Federal, state, and tribal coordination required to satisfy the NHPA and all other applicable laws and regulations.
- (b) If the Corps is the lead Federal agency, the Corps will initiate the Federal, state, and tribal coordination required to satisfy the NHPA and all other applicable laws and regulations.

Federally recognized tribes are afforded a government-to-government status as sovereign nations and consultation is required under Executive Order 13175 and 36 CFR Part 800.

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22, Designated Critical Resource Waters.

- (a) A PCN is required for any activity proposed in designated critical resource water, including wetlands adjacent to those waters. Discharges of dredged or fill material into waters of the U.S. under RGP A are not authorized for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. The District Engineer may authorize activities under RGP B only after it is determined that the impacts to the critical resource waters will be no more than minimal.
- (b) Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The District Engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The District Engineer may also designate additional critical resource waters after notice and opportunity for public comment.

A PCN is required for all work in Critical Resource Waters. The following are designated as Critical Resource Waters:

- Special habitat waters of Lake Erie including the shoreline, off shore islands, rock outcrops, and adjacent waters within the boundaries defined as 82° 22' 30" West Longitude, 83° 07' 30" West Longitude, 41° 33' 00" North Latitude, and 42°00'00" North Latitude.
- In Ohio, two areas have been designated critical habitat for the piping plover (<u>Charadrius melodus</u>) and are defined as areas 0.62 miles inland from normal high water line of a designated water of the U.S. Unit OH-1 extends from the mouth of Sawmill Creek to the western property boundary of Sheldon Marsh State Natural Area, Erie County, encompassing approximately 2.0 miles. Unit OH-2 extends from the eastern boundary line of Headland Dunes Nature Preserve to the western boundary of the Nature Preserve and Headland Dunes State Park, Lake County, encompassing approximately 0.5 mile.
- 23. Mitigation. The District Engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:
- (a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).
- (b) Mitigation sequencing (avoidance, minimization, compensation for loss of waters of the U.S. and associated functions) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.
- (c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require a PCN, unless the District Engineer determines in writing that either some other form of mitigation would be more environmentally appropriate, the adverse effects of the proposed activity are minimal, and/or provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require a PCN, the District Engineer may determine on a case-by-case basis that compensatory mitigation is

required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

- 1. The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.
- Compensatory mitigation may be performed using the methods of restoration, enhancement, establishment, and in certain circumstances preservation.

 Restoration should generally be the first option considered because the likelihood of success is greater and the impacts to potentially ecologically important uplands are reduced compared to establishment, and the potential gains in terms of aquatic resource functions are greater, compared to enhancement and preservation.
- If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the District Engineer to make the decision on the RGP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) (14) must be approved by the District Engineer before the permittee begins work in waters of the United States, unless the District Engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).
- 4. If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the site of discharge of fill into waters of the U.S. and the number of credits to be provided.
- 5. Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through special conditions added to the RGP authorization, instead of components of a compensatory mitigation plan.
- (d) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the RGP. For example, if an RGP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the RGP.
- (e) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases,

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riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the District Engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the District Engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the District Engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

- (f) As required by 33 CFR 332, the permittee may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the RGP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.
- (g) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to an herbaceous wetland in a permanently maintained right-of-way, mitigation will be required to reduce the adverse effects of the project to the minimal level.
- 24. Case-By-Case Conditions. The activity must comply with any conditions that may have been added by the Division Engineer and with any case specific conditions added by the Corps, by the state in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.
- 25. Use of Multiple Permits. The use of any combination of RGP A and RGP B for a single and complete project is permitted as long as discharges into waters of the U.S. thresholds identified in each section are not exceeded. In addition, the use of any other general permit in combination with any Section of this RGP for a single and complete project is prohibited, except when the acreage loss of waters of the U.S. authorized by a Section of the RGP or the Nationwide Permit (NWP) does not exceed the acreage limit of the section of the RGP or NWP with the highest specified acreage limit. For example, if a road crossing is constructed under RGP A, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the U.S. for the total project cannot exceed 1/2-acre.
- 26. Transfer of Regional Permit Verifications. If the permittee sells the property associated with regional permit verification, the permittee may transfer the regional permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the

transfer. A copy of the regional permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this regional permit are still in existence at the time the property is transferred, the terms and conditions of this regional permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this regional permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

(Transferee)	
(Date)	

- 27. Compliance Certification. If the permittee receives a RGP verification letter from the Corps, the permittee must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the District Engineer. The Corps will provide the permittee the certification document with the RGP verification letter. The certification document will include:
- (a) A statement that the authorized work was done in accordance with the RGP verification, including any general or activity-specific conditions;
- (b) A statement that any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(1)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the work and mitigation.

28. Pre-Construction Notification (PCN).

(a) <u>Timing</u>. Where required by the terms of the RGP, the prospective permittee must notify the District Engineer by submitting a PCN as early as possible. The District Engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information required to make the PCN complete. As a general rule, District Engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the District Engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the District Engineer. The prospective permittee shall not begin the activity until either:

- 1. He or she is notified in writing by the District Engineer that the activity may proceed under the RGP with any special conditions imposed by the District Engineer; or
- 2. 45 calendar days have passed from the District Engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the District Engineer. However, if the permittee was required to notify the Corps pursuant to General Condition 22 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to General Condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. If the District Engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the RGP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 325.7.
- (b) Contents of PCN: The PCN must be in writing and include the following information:
 - 1. Name, address and telephone numbers of the prospective permittee;
 - 2. Location of the proposed project;
- 3. A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the RGP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the District Engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Plans/drawings should be provided when necessary to show that the activity complies with the terms of the RGP. (Plans/drawings usually clarify the project and when provided results in a quicker decision. Plans/drawings should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);
- 4. Project drawings on 8 1/2" x 11" paper. Three types of illustrations are required to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map (i.e. a location map such as a USGS topographical map), a Plan View and a Typical Cross-Section Map. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view or cross-section). In addition, each illustration should be identified with a figure or attachment number. Each project drawing must clearly depict the work within waters of the U.S.

- 5. For activities resulting in the loss of greater than 1/2 acre of waters of the U.S., full agency coordination is required. In an effort to expedite permit review, it is requested that all PCN's for activities resulting in the loss of greater than 1/2 acre of waters of the U.S. include five (5) copies of the notification package. Applicants are encouraged to submit this information in electronic format in order to minimize the use of paper;
 - 6. A copy of the applicable FIRM map;
- 7. The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;
- 8. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or a statement explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan;
- 9. If the Federal Highway Administration (FHWA) is the lead federal agency, they have ultimate responsibility to ensure compliance with Section 7 of the ESA for projects conducted by the Ohio Department of Transportation. If FHWA is the lead Federal agency and a PCN is required, the PCN must provide documentation demonstrating compliance with the Endangered Species Act;
- 10. If FHWA is not the lead federal agency, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work;
- 11. If FHWA is the lead federal agency, they have ultimate responsibility to ensure compliance with Section 106 of the NHPA. The applicant will coordinate with the OHPO in accordance with the Programmatic Agreement Among The Federal Highway Administration, The Advisory Council On Historic Preservation, The Ohio Historical Society, State Historic Preservation Office, And The State of Ohio, Department of Transportation Regarding The Implementation Of The Federal-Aid Highway Program In Ohio (Agreement Number 16734) executed on November 30, 2011. In such cases where a PCN is required, the applicant must provide the District Engineer with the appropriate documentation to demonstrate compliance with the requirements of Section 106 of the NHPA; and
- 12. If FHWA is not the lead federal agency, the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.

- (c) <u>Form of PCN</u>: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraph (2) of this general condition. A letter containing the required information may also be used.
- (d) <u>Agency Coordination</u>: The District Engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the RGP and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

For all RGP activities requiring PCN that result in the loss of greater than 1/2-acre of waters of the U.S., the District Engineer will immediately provide (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy of the PCN to the appropriate Federal or state offices (FWS, ODNR, Ohio EPA, SHPO). The agencies will then have 10 calendar days from the date the material is transmitted to notify the District Engineer that they intend to provide substantive, site-specific comments. If so contacted by an agency, the District Engineer will wait an additional 15 calendar days before making a decision on the PCN. The District Engineer will fully consider agency comments received within the specified time frame. The District Engineer will indicate in the administrative record associated with each PCN that the resource agencies' concerns were considered.

(e) District Engineer's Decision: In reviewing the PCN for the proposed activity, the District Engineer will determine whether the activity authorized by the RGP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. For a linear project, this determination will include an evaluation of the individual crossings to determine whether they individually satisfy the terms and conditions of the RGP(s), as well as the cumulative effects caused by all of the crossings authorized by RGP. When making minimal effects determinations the District Engineer will consider the direct and indirect effects caused by the RGP activity. The District Engineer will also consider site specific factors, such as the environmental setting in the vicinity of the RGP activity, the type of resource that will be affected by the RGP activity, the functions provided by the aquatic resources that will be affected by the RGP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the RGP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the District Engineer. If an appropriate functional assessment method is available and practicable to use, that assessment method may be used by the District Engineer to assist in the minimal adverse effects determination. The District Engineer may add case-specific special conditions to the RGP authorization to address sitespecific environmental concerns.

If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The District Engineer will consider any proposed compensatory mitigation the applicant has included

in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the District Engineer determines that the activity complies with the terms and conditions of the RGP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the District Engineer will notify the permittee and include any activity-specific conditions in the RGP verification the District Engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The District Engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the District Engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the District Engineer will expeditiously review the proposed compensatory mitigation plan. The District Engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the District Engineer to be minimal, the District Engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the RGP, including any activity-specific conditions added to the RGP authorization by the District Engineer.

If the District Engineer determines that the adverse effects of the proposed work are more than minimal, then the District Engineer will notify the applicant either: (a) That the project does not qualify for authorization under the RGP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the project is authorized under the RGP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (c) that the project is authorized under the RGP with specific modifications or conditions. Where the District Engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period, with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the District Engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

- 29. Fens and Bogs: The discharge of fill material into a bog or fen is prohibited.
- 30. ODNR In-Water Work Exclusion Dates: No work under this RGP may take place during the restricted period of the ODNR, Division of Wildlife Statewide In-Water Work Restrictions

unless the applicant notifies the District Engineer in accordance with RGP General Condition 28 and receives written approval from the Corps:

Location	Restricted Period	
Salmonid streams ¹	9/15 – 6/30	
Percid streams ²	3/15 – 6/30	
Other streams ³	4/15 - 6/30	

Footnotes:

- (1) Arcola Creek (entire reach), Ashtabula River (Hadlock Rd. to mouth), Ashtabula Harbor, Aurora Branch of the Chagrin River (RM 0.38 to mouth), Big Creek [(Grand River drainage basin) Girdled Road to mouth], Chagrin River (Chagrin Falls to mouth), Cold Creek (entire reach), Conneaut Creek (entire reach), Conneaut Harbor, Corporation Creek ((Chagrin River RM 0.27) entire reach), Cowles Creek (entire reach), Ellison Creek ((Grand River drainage basis) entire reach), Euclid Creek (entire reach), Grand River (to dam at Harpersfield Covered Bridge Park just upstream of the S.R. 534 bridge to mouth)/Fairport Harbor, Gulley Brook ((Chagrin River RM 5.54) entire reach), Indian Creek (entire reach), Kellogg Creek (Grand River drainage basin) entire reach), Mill Creek ((Grand River drainage basin) entire reach), Paine Creek ((Grand River drainage basin) from Paine Falls to mouth), Rocky River (Cedar Point Rd. (East Branch/West Branch confluence) to mouth), Smokey Run ((Conneaut Creek RM 3.5) entire reach), Turkey Creek (entire reach), Vermilion River (dam at Wakeman upstream of the S.R. 20/60 bridge to mouth), Ward Creek ((Chagrin River RM 1.0) entire reach), Wheeler Creek (entire reach), Whitman Creek (entire reach).
- (2) Cuyahoga River (dam below the S.R. 82 bridge east of Brecksville (Chippewa Rd.) to mouth), Great Miami River (dam south of New Baltimore to mouth), Hocking River (lower section), Huron River (from the East Branch/West Branch confluence to Lake Erie), Little Miami River (lower section), Maumee River (split dam at Mary Jane Thurston State Park and Providence Park in Grand Rapids to mouth), Maumee Bay, Muskingum River (to Devola Dam No. 2 off S.R. 60 north of Marietta to mouth), Ohio River (entire reach), Portage River (entire reach), Sandusky River (to Ballville Dam off River Road in Fremont to mouth), Sandusky Bay, Scioto River (lower section), Toussaint River (entire reach).
- (3) EWH, CWH, WWH, or streams with T&E species. Includes Lake Erie & bays not listed above. Special conditions (such as occurrence of T&E species) may mandate local variation of restrictions.

<u>Note</u>: This condition does not apply to Ohio Department of Transportation projects that are exempt under the "Memorandum of Agreement between Ohio Department of Transportation, Federal Highway Administration, Ohio Department of Natural Resources, and United States Fish and Wildlife Service For Interagency Coordination For Highway Projects Which Involve Stream Crossings, Bank Stabilization, and/or Minor Wetland Fills.

- 31. Waters of Special Concern: The permittee must notify the District Engineer in accordance with the PCN General Condition 28 for activities in the following resources:
- (a) Category 3 Wetlands: Notification is required for all temporary or permanent discharges of fill material into Category 3 wetlands as determined through use of the latest approved version of Ohio EPA's Ohio Rapid Assessment Method (ORAM) for wetland evaluation long form.
- (b) Ohio Stream Designations: Notification is required for all temporary or permanent discharges of fill material into Exceptional Warmwater Habitat, Cold Water Habitat, Seasonal Salmonid, or any equivalent designation; or water bodies with an antidegradation category of Superior High Quality Water, Outstanding National Resource Water, or Outstanding State Waters as determined by Ohio EPA, except for activities performed under RGP B. The current list of these streams can be found on the Ohio EPA web-site at: http://www.epa.ohio.gov/dsw/rules/3745_l.aspx. These designations can be found under the aquatic life use of the stream within its basin and under the "Anti-deg Rule #05."
- (c) State Wild and Scenic Rivers: A PCN is required for all activities in State Wild and Scenic Rivers. The following are State Wild and Scenic Rivers:

The Ashtabula River

- The Ashtabula River from the confluence of the East Branch and West Branch of the Ashtabula River at river mile 27.54, downstream to the East 24th Street bridge crossing at river mile 2.3.
- The East Branch of the Ashtabula River from Pennline Fen at river mile 12.0, downstream to the mouth of the East Branch at river mile 0.0.
- The West Branch of the Ashtabula River from the North Richmond Road (Co. Rd. 302) bridge crossing at river mile 9.05, downstream to the mouth of the West Branch at river mile 0.0.
- Miles designated (approximate): Scenic 46

Big and Little Darby Creeks

- Big Darby Creek from the Champaign/Union County line downstream to the U.S. Rt. 40 bridge, from the northern boundary of Battelle-Darby Creek Metro Park to the confluence with the Little Darby Creek downstream to the Scioto River.
- Little Darby Creek from the Lafayette-Plain City Road bridge downstream to the confluence with Big Darby Creek.
- Miles designated (approximate): 84

Chagrin River

- Aurora Branch from St. Rt. 82 bridge downstream to confluence with the Chagrin River
- Chagrin River from confluence with Aurora Branch downstream to U.S. Rt. 6 bridge.
- Chagrin River from Woodiebrook Road bridge crossing downstream to the confluence with Aurora Branch of the Chagrin River in Bentleyville.

- East Branch from Heath Road bridge downstream to confluence with the Chagrin River.
- Miles designated (approximate): Scenic 71

Conneaut Creek

- Scenic Segment: Creek Road bridge crossing to the Penn Central Railroad bridge crossing at river mile 2.0 in Conneaut.
- *Wild Segment:* Ohio/Pennsylvania border at river mile 23.83 to the Creek Road bridge crossing at river mile 7.39.
- Miles designated (approximate): Scenic 5.39, Wild 16.44, Total 21.83

Grand River

- Wild segment from Harpersfield covered bridge downstream to Norfolk and Western Railroad trestle south of Painesville.
- Scenic segment from U.S. Rt. 322 bridge in Ashtabula County downstream to Harpersfield covered bridge.
- Miles designated (approximate): Scenic 33, Wild 23, Total 56

Kokosing River

- Kokosing River from Knox/Morrow County line to confluence with Mohican River.
- North Branch of Kokosing from confluence with East Branch downstream to confluence with main stem.
- Miles designated (approximate): 48

Little Beaver Creek

- Wild segments West Fork from 1/4 mile downstream from Twp. Rd. 914 to confluence with Middle Fork. North Fork from Twp. Rd. 952 to confluence with Little Beaver Creek. Little Beaver Creek from confluence of West and Middle Forks downstream to 3/4 mile north of Grimm's Bridge.
- Scenic segments North Fork from Ohio-Pennsylvania line downstream to Jackman Road. Middle Fork from Elkton Road. (Twp. Rd. 901) downstream to confluence with West Fork. Little Beaver Creek from 3/4 mile north of Grimm's Bridge downstream to the Ohio-Pennsylvania line.
- Miles designated (approximate): Wild 20, Scenic 16, Total 36

Little Miami River

- Clermont County line at Loveland to headwaters, including North Fork, Clermont County line at Loveland to confluence with East Fork and from the confluence with East Fork to Ohio River.
- Miles designated (approximate): 105

Maumee River

Scenic segment - Ohio-Indiana line to St. Rt. 24 bridge west of Defiance.

- Recreational segment St. Rt. 24 bridge west of Defiance to U.S. Rt. 25 bridge near Perrysburg.
- Miles designated (approximate): Scenic 43, Recreational 53

Mohican River

- The entire main stem of the Mohican River from the confluence of the Clear Fork to the confluence with the Kokosing State Scenic River.
- The Clear Fork of the Mohican River from the base of the Pleasant Hill Dam to the confluence with the Black Fork of the Mohican River.
- Miles designated (approximate): 32.3

Olentangy River

- Delaware Dam to Old Wilson Bridge Road in Worthington.
- Miles designated (approximate): 22

Sandusky River

- U.S. Rt. 30 in Upper Sandusky to Roger Young Memorial Park in Fremont.
- Miles designated (approximate): 65

Stillwater River System

- Recreational segment Englewood dam to confluence with Great Miami River.
- Scenic segments Stillwater River from Riffle Road bridge in Darke County to Englewood dam.
- Greenville Creek from the Ohio-Indiana state line to the confluence with the Stillwater.
- Miles designated (approximate): Scenic 83, Recreational 10

Upper Cuyahoga River

- Troy-Burton Township line in Geauga County to St. Rt. 14.
- Miles designated (approximate): Scenic 25
- 32. Oak Openings: A PCN is required for all discharges of fill material into waters of the U.S. associated with activities conducted in the Oak Openings Region of Northwest Ohio located in Lucas, Henry, and Fulton counties. For a description and map of the Oak Openings Region, visit http://www.ohio-nature.com/Oak-Openings.html.

33. Ohio Coastal Management Program Federal Consistency Conditions:

(a) This permit shall not authorize any activity within the territory of Lake Erie, including Maumee Bay and Sandusky Bay, as defined in Ohio Revised Code §1506.11(A) or along or near the Ohio shoreline of Lake Erie unless a project-specific Federal Consistency concurrence pursuant to the Coastal Zone Management Act of 1972, as amended, has been issued by the Ohio Department of Natural Resources.

(b) Construction and/or demolition debris and clean hard fill associated with any project authorized under this permit shall not be placed along or near the shoreline of Lake Erie or within the territory of Lake Erie unless authorized by a Shore Structure Permit pursuant to Ohio Revised Code §1506.40.

Further Information:

A. Congressional Authorities: Proposed activities under this RGP would be authorized under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

B. Limits of this authorization:

- (1) This RGP does not obviate the need to obtain other Federal, state, or local authorizations required by law.
- (2) This RGP does not grant any property rights or exclusive privileges.
- (3) This RGP does not authorize any injury to the property or rights of others.
- (4) This RGP does not authorize interference with any existing or proposed Federal project.
- C. Limits of Federal Liability: In issuing this RGP, the Federal Government does not assume any liability for the following:
- (1) Damages to the permitted project or uses hereof as a result of other permitted or unpermitted activities or from natural causes.
- (2) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- (3) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- (4) Design or construction deficiencies associated with the permitted work.
- (5) Damage claims associated with any future modification, suspension, or revocation of this permit.
- **D. Reevaluation of Permit Decision:** Should circumstances warrant, this office may reevaluate its decision on the RGP. Circumstances that could require reevaluation include but are not limited to the following:
- (1) Failure to comply with the terms and conditions of this RGP.
- (2) If information provided in support of the project description is false, incomplete, or inaccurate.

(3) Significant new information surfaces which was not considered in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring compliance with the terms and conditions of the permit and for the initiation of legal action where appropriate. The permittee would be required to pay for any corrective measures ordered by this office, and for failure to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contact or otherwise and bill the permittee for the costs. In addition, unpermitted work or violation of permit conditions may result in civil, criminal or administrative penalties (33 U.S.C. 1319 c, d, and g.).

Definitions:

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

Compensatory mitigation: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

Currently serviceable: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term "discharge" means any discharge of dredged or fill material.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Ephemeral stream: An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

Flood Control Facility: Structures such as levees, floodwalls, flood control channels, and water control structures that were designed and constructed to have appreciable effects in preventing damage by irregular and unusual rises in water level.

Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps regulatory program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.

Intermittent stream: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Loss of waters of the United States (U.S.): Waters of the U.S. that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the U.S. is a threshold measurement of the impact to jurisdictional waters for determining whether a project may qualify for an RGP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. The loss of stream bed includes the linear feet of stream bed that is filled or excavated. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the U.S. Impacts resulting from activities eligible for exemptions under Section 404(f) of the Clean Water Act are not considered when calculating the loss of waters of the United States.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. The definition of a wetland can be found at 33 CFR 328.3(b). Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the RGP, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high water mark can be determined. Aquatic vegetation within the area of standing or flowing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. Examples of "open waters" include rivers, streams, lakes, and ponds.

Ordinary High Water Mark (OHWM): An ordinary high water mark is a line on the shore established by the fluctuations of water and indicated by physical characteristics, or by other appropriate means that consider the characteristics of the surrounding areas (see 33 CFR 328.3(e)).

Perennial stream: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. PCN may be required by the terms and conditions of a nationwide permit, or by regional conditions. A PCN may be voluntarily submitted in cases where PCN is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For

the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Riffle and pool complex: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands adjacent to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition U.)

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term "single and complete project" is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of RGP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of "independent utility"). Single and complete non-linear projects may not be "piecemealed" to avoid the limits in the RGP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality

(i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Suitable Material: Clean, non-erodable materials including hard fill that is free of toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act). Trash, debris, car bodies, and asphalt are examples of unsuitable material. However, bridge demolition debris may be used for temporary work/access pads provided it is composed of suitable material, free of exposed rebar or other steel, and stabilized to prevent erosion.

Temporary: A finite period of time limited to the duration of the construction or maintenance of a transportation project, but never to exceed 2 years

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the RGP, a waterbody is a jurisdictional water of the United States. If a jurisdictional wetland is adjacent – meaning bordering, contiguous, or neighboring – to a waterbody determined to be a water of the United States under 33 CFR 328.3(a)(1)-(6), that waterbody and its adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)). Examples of "waterbodies" include streams, rivers, lakes, ponds, and wetlands.