SEE SHEET 2

LOCATION MAP

DESIGN DESIGNATIONS SEE SHEET 2

DESIGN EXCEPTIONS NONE REQUIRED

ADA DESIGN WAIVERS NONE REQUIRED

FY2022

CULVERT REPAIR

D08

SUPPLEMENTAL SPECIAL ENGINEER'S SEAL: STANDARD CONSTRUCTION DRAWINGS SPECIFICATIONS PROVISIONS NITE OF ATEOFOH 800-2019 WATERWAY UNDERGROUND UTILITIES DM-4.3 1/15/16 10/15/2 PERMITS Contact Two Working Days Before You Dig DM-4.4 10/19/18 1/15/16 222 CONDITIONS "HILLINN 11111 11/17/2021 MT-95.31 7/19/19 MAXWELL L. MT-97.10 4/19/19 🗯 OHIO 811.org BAILEY MT-105.10 1/17/20 - Before You Dig E-78411 OHI0811, 8-1-1, or 1-800-362-2764 (Non members must be called directly) PEGISTERED SSIONAL ENGINE SONAL ENGLI PLAN PREPARED BY: ODOT DISTRICT 8 505 S. S.R. 741 LEBANON, OH 45036 118/2022 DATE:

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

D08 CULVERT REPAIR FY2022

CLERMONT/WARREN COUNTY CITY OF BATAVIA, CITY OF GOSHEN, HARLIN TOWNSHIP, TATE TOWNSHIP, AND WAYNE TOWNSHIP

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FEDERAL PROJECT NUMBER	
5170-(498)	
RAILROAD INVOLVEMENT	
PROJECT DESCRIPTION	
CULVERT MAINTENANCE PROJECT. PERFORM MINOR SPRAY LINER WORK TO THE FOLLOWING CULVERTS: CLE-133-3216, CLE-133-3293, CLE-125-1012, CLE-222-2907 & WAR-28-0040.	
EARTH DISTURBED AREAS	
PROJECT EARTH DISTURBED AREA: 0.0 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)	
2019 SPECIFICATIONS	н
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.	LITLE SHEE
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.	
	DESIGN AGENCY
APPROVED Tangt Cesell	
DATE 1-21)-2022 bustrict DEPUTH DIRECTOR	DESIGNER GAT REVIEWER
APPROVED	PROJECT ID
DATE DIRECTOR DEPARTMENT OF	94182

P.1 | 15

TRANSPORTATION



LOCATION MAP

LATITUDE: N 39°11'40" LONGITUDE: W 84°3'19"

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

DESIGN DESIGNATION - SR 133

CURRENT ADT (2022)	1,800
DESIGN YEAR ADT (2034)	2,100
DESIGN HOURLY VOLUME (2034)	200
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	18%
DESIGN SPEED	55
LEGAL SPEED	55
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL MAJOR COLLECTOR	
NHS PROJECT	NO



LOCATION MAP LATITUDE: N 39°0'7" LONGITUDE: W 84°9'4"



PORTION TO BE IMPROVED
NTERSTATE HIGHWAY
EDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS
STATE ROUTES

DESIGN DESIGNATION - SR 125

CURRENT ADT (2022)	22,500
DESIGN YEAR ADT (2034)	25,500
DESIGN HOURLY VOLUME (2034)	2,600
DIRECTIONAL DISTRIBUTION	63%
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	55
LEGAL SPEED	55
DESIGN FUNCTIONAL CLASSIFICATION:	
PRINCIPAL ARTERIAL	
NHS PROJECT	YES

DESIGN DESIGNATION - SR 222

CURRENT ADT (2022)	4,700
DESIGN YEAR ADT (2034)	5,000
DESIGN HOURLY VOLUME (2034)	650
DIRECTIONAL DISTRIBUTION	61%
TRUCKS (24 HOUR B&C)	10%
DESIGN SPEED	55
LEGAL SPEED	55
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL MAJOR COLLECTOR	
NHS PROJECT	NO



LOCATION MAP LATITUDE: N 39°15'45" LONGITUDE: W 84°5'7"

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

DESIGN DESIGNATION - SR 28

CURRENT ADT (2022)	600
DESIGN YEAR ADT (2034) 7,3	300
DESIGN HOURLY VOLUME (2034)	50
DIRECTIONAL DISTRIBUTION 65	5%
TRUCKS (24 HOUR B&C) 69	6
DESIGN SPEED 55	5
LEGAL SPEED	5
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL MAJOR COLLECTOR	
NHS PROJECT NO	0



LOCATION MAP



CMP REPAIR METHOD A- METAL SEALER

PROTECTIVE COATING REPAIR USING A METAL SEALER: CMP REPAIR METHOD A IS INTENDED FOR REPAIRING AREAS OF CORRUGATED METAL PIPES THAT HAVE NOT EXPERIENCED ANY SIGNIFICANT SECTION LOSS, BUT HAS EXPERIENCED MINOR SURFACE RUST, FRECKLED RUST, LEACHING, OR LOSS OF GALVANIZATION. SHOW SPECIFIC AREAS IN THE PLANS AND REPAIR PER ONE OF THE FOLLOWING MANUFACTURES PRODUCTS AS FOLLOWS:

REPAIR USING DIAMANT/STRONGHOLD ONE METAL SEALER: CLEAN SURFACE TO BE TREATED WITH DIAMANT CLEANER #1417 TO REMOVE ANY OIL, GREASE OR DIRT. APPLY DICHTOL 1546 BLUE BY BRUSH OR BY SPRAY METHOD PER MANUFACTURER APPROVED METHOD. APPLY A MINIMUM OF 2 COATS AT 1 MINUTE INTERVALS FOR A TOTAL THICKNESS OF 0.003". MULTIPLE COATS MAY BE NEEDED UNTIL SEALER BEGINS TO BUILD. DO NOT ALLOW TO DRY BETWEEN COATS.

OR

REPAIR USING DEVCON EZ SPRAY CERAMIC RED/BLUE: CLEAN THE SURFACE WITH DEVCON CLEANER BLEND 300 TO REMOVE ANY OIL, GREASE OR DIRT. GRIT BLAST SURFACE WITH 8-40 MESH TO AN SSPC SP-10 PROFILE THEN LEAVE OVERNIGHT TO ALLOW ANY SALT TO SWEAT TO THE SURFACE. REPEAT BLASTING NEXT DAY. PERFORM CHLORIDE PENETRATION TEST TO DETERMINE SOLUBLE SALT CONTENT IS LESS THAN 40 PPM. CLEAN SURFACE AGAIN WITH DEVCON CLEANER BLEND 300. APPLY THE FIRST COAT OF EZ SPRAY CERAMIC AT A THICKNESS OF APPROXIMATELY 15 MIL (0.015 IN). APPLY A SECOND COAT OF EZ SPRAY CERAMIC AT A THICKNESS OF APPROXIMATELY 15 MIL (0.015 IN) DURING THE RE-COAT TIME PERIOD OF 4-6 HOURS AFTER THE FIRST COAT WAS APPLIED TO ENSURE PROPER ADHESION.

OR

REPAIR USING LOCTITE PC 7693 COLD GALVANIZING COATING COMPOUND: CLEAN THE SURFACE WITH LOCTITE 7840 TO REMOVE ANY OIL GREASE OR DIRT. GRIT BLAST SURFACE WITH 8-40 MESH TO AN SSPC SP-10 PROFILE THEN LEAVE OVERNIGHT TO ALLOW ANY SALT TO SWEAT TO THE SURFACE. REPEAT BLASTING NEXT DAY. PERFORM CHLORIDE PENETRATION TEST TO DETERMINE IF SOLUBLE SALT CONTENT IS LESS THAN 40 PPM. USE SALT REMOVER SUCH AS CHLOR-RID OR APPROVED EQUAL TO REMOVE SALTS. APPLY TWO COATS OF LOCTITE PC 7693 GALVANIZING COATING COMPOUND AT 15 MINUTE INTERVALS.

PAYMENT FOR ALL REPAIRS OPTIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 CONDUIT, MISC.: REPAIR METHOD A. QUANTITIES LISTED ON PLAN SHEETS ARE FOR ESTIMATE PURPOSES ONLY AND SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPENCIES.

CMP REPAIR METHOD B- METAL REPAIR OF SECTION LOSS

CMP REAIR METHOD B IS INTENDED TO USE A METAL REPAIR PUTTY FOR REPAIRING AREAS OF CORRUGATED METAL PIPES THAT HAVE EXPERIENCED MINOR TO MODERATE SECTION LOSS AS EVIDENT BY DARK BROWN AREAS, LOSS OF MATERIAL WITH DEEP PITS, AND/OR SMALL FLAKING METAL. REPAIR PER ONE OF THE FOLLOWING MANUFACTURERS PRODUCTS: REPAIR USING DIAMANT/STRONGHOLD ONE MATERIAL REPACOAT 2447: GRIT BLAST AREAS WITH AN 8-40 MESH GRIT TO AN SSPC SP-10 PROFILE AND TREAT WITH ONE COAT OF DICHTOL 1546 PER REPAIR METHOD A FOR A DISTANCE OF 12" PAST THE LIMITS OF RUST. APPLY REPACOUR 2447 TO FILL THE AREAS OF SECTION LOSS AND RUSTING PLUS AN ADDITIONAL 2" PERIMETER IN ALL DIRECTIONS. THE TOTAL COATING SHALL FILL THE DETERIORATED AND HAVE A MINIMUM THICKNESS OF 0.010"-0.015" THICK.

OR

REPAIR USING DEVCON PLASTIC STEEL LIQUID AND EZ SPRAY CERAMIC RED/BLUE: CLEAN THE SURFACE WITH DEVCON CLEANER BLEND 300 TO REMOVE ANY OIL, GREASE OR DIRT. GRIT BLAST TO AN SSPC SP-10 PROFILE FOR A DISTANCE OF 12"PAST THE LIMITS OF RUST. APPLY PLASTIC STEEL LIQUID (B) TO FILL THE AREAS OF SECTION LOSS AND RUSTING FOR A DISTANCE OF 2" PAST THE ORIGINAL LIMITS OF RUST. THE SECTION LOSS SHALL BE FILLED PLUS AN ADDITIONAL MINIMUM THICKNESS OF 1/8" OF MATERIAL SHALL BE SPREAD OVER THE RUSTED/REPAIRED AREA AND THE 2"PERIMETER AREA. APPLY THE FIRST COAT OF EZ SPRAY CERAMIC AT A THICKNESS OF APPROXIMATELY 15 MIL (0.015 IN) DURING THE RE-COAT TIME PERIOD OF 2-4 HOURS AFTER THE PLASTIC STEEL LIQUID IS APPLIED TO ENSURE PROPER ADHESION. APPLY A SECOND COAT OF EZ SPRAY CERAMIC AT A THICKNESS OF APPROXIMATELY 15 MIL (0.015 IN) DURING THE RE-COAT TIME PERIOD OF 4-6 HOURS AFTER THE FIRST COAT WAS APPLIED TO ENSURE PROPER ADHESION.

OR

CLEAN THE SURFACE WITH LOCTITE 7840 TO REMOVE ANY OIL, GREASE, OR DIRT. REPAIR USING LOCTITE EA 3471 NA (FIXMASTER STEEL PUTTY): GRIT BLAST AREAS WITH AN 8-40 MESH GRIT TO AN SSPC SP-10 PROFILE AND TREAT WITH EITHER PRODUCT IN CMP REPAIR METHOD A FOR A DISTANCE OF 12" PAST THE LIMITS OF RUST. APPLY LOCTITE EA 3471 TO FILL THE AREAS OF SECTION LOSS AND RUSTING FOR A DISTANCE OF 2" PAST THE ORIGINAL LIMITS OF RUST. THE SECTION LOSS SHALL BE FILLED PLUS AN ADDITIONAL MINIMUM THICKNESS OF 1/16" OF MATERIAL SHALLBE SPREAD OVER THE RUSTED/REPAIRED AREA AND THE 2" PERIMETER AREA.

OR

CLEAN THE SURFACE WITH LOCTITIE 7840 TO REMOVE ANY GREASE OR DIRT. GRIT BLAST AREAS WITH AN 8-40 MESH GRIT TO AN SSPC SP-10 PROFILE. APPLY LOCTITIE EA 3471 TO FILL THE AREAS OF SECTION LOSS AND RUSTING PLUS AND ADDITIONAL 4" PERIMETER IN ALL DIRECTIONS. TREAT WITH ONE COAT OF LOCTITE PC 7693 GALVANIZING COATING COMPOUND PER REPAIR METHOD A FOR A DISTANCE OF 12"PAST THE LIMITS OF RUST. THE SECTION LOSS SHALL BE FILLED PLUS AN ADDITIONAL MINIMUM THICKNESS OF 1/16" OF MATERIAL SHALL BE SPREAD OVER THE REPAIR AREA.

PAYMENT FOR ALL REPAIRS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 CONDUIT, MISC.: REPAIR METHOD B. QUANTITIES LISTED ON PLAN SHEETS ARE FOR ESTIMATE PURPOSES ONLY AND SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPENCIES.

CMP REPAIR METHOD C- METAL REPAIR OF SECTION LOSS WITH PERFORATIONS

CMP REPAIR METHOD C IS INTENDED FOR REPAIRING AREAS OF CORRUGATED METAL PIPES THAT ARE PERFORATED OR ARE EXPECTED TO BE PERFORATED OR VERY THIN AFTER GRIT BLASTING AS EVIDENT BY DARK BROWN LAYERED RUST AND OR THE PRESENCE OF HOLES. THIS REPAIR IS NOT INTENDED TO ACT AS A FULLY STRUCTURAL REPAIR, BUT IT IS INTENDED TO STOP CORROSION AND PREVENT BACKFILL INFILTRATION.

REPAIR AS FOLLOWS:

REPAIR USING DIAMANT/STRONGHOLD ONE MATERIAL MM1018 PUTTY: FILL HOLES THAT ARE LEAKING BACKFILL WITH EXPANDABLE FOAM, HYDRAULIC CEMENT, OR OTHER REPAIR METHODS AS NECESSARY, THE FILL MATERIAL SHALL NOT REDUCE THE REPAIR THICKNESS BY EXTENDING INTO THE THICKNESS OF THE CONDUIT WALL REPAIR. GRIT BLAST AREAS WITH AN 8-40 MESH GRIT TO AN SSPC SP-10 PROFILE AND TREAT WITH ONE COAT OF DICHTOL 1546 PER REPAIR METHOD A FOR A DISTANCE OF 12" PAST THE LIMITS OF RUST. APPLY MM1018 METAL POLYMER PUTTY TO FILL THE AREAS OF SECTION LOSS AND RUSTING PLUS AN ADDITIONAL 4" PERIMETER IN ALL DIRECTIONS. THE SECTION LOSS SHALL BE FILLED PLUS AN ADDITIONAL MINIMUM THICKNESS OF 1/16" OF MATERIAL SHALL BE SPREAD OVER THE REPAIR AREA. AN 18 GAGE, GALVANIZED METAL MESH WITH A 1/2" GRID SPACING SHALL BE PRESSED INTO THE REPAIR AREA CONFORMING TO THE METAL CORRUGATIONS. THE METAL MESH SHALL EXTEND 2" PAST THE RUSTED AREAS. ADDITIONAL MATERIAL SHALL BE PLACED IN A SECOND COATING TO ENSURE THE METAL MESH IS IN FULLY ENGULFED BY THE PUTTY AND HAS A 1/16" MINIMUM THICKNESS OVERTOP OF THE MESH.

REPAIR USING DEVCON PLASTIC STEEL PUTTY AND EZ SPRAY CERAMIC RED/BLUE: FILL HOLES THAT ARE LEAKING BACKFILL WITH EXPANDABLE FOAM, HYDRAULIC CEMENT, OR OTHER REPAIR METHODS AS NECESSARY. THE FILL MATERIAL SHALL NOT REDUCE THE REPAIR THICKNESS BY EXTENDING INTO THE THICKNESS OF THE CONDUIT WALL REPAIR. CLEAN THE SURFACE WITH DEVCON CLEANER BLEND 300 TO REMOVE ANY OIL, GREASE OR DIRT. GRIT BLAST TO AN SSPC SP-10 PROFILE FOR A DISTANCE OF 12"PAST THE LIMITS OF RUST, APPLY DEVCON PLASTIC STEEL PUTTY (A) TO FILL THE AREAS OF SECTION LOSS AND RUSTING PLUS AN ADDITIONAL 4"PERIMETER IN ALL DIRECTIONS. THE SECTION LOSS SHALL BE FILLED PLUS AN ADDITIONAL MINIMUM THICKNESS OF 1/16"OF MATERIAL SHALL BE SPREAD OVER THE REPAIR AREA. AN 18 GAGE. GALVANIZED METAL MESH WITH A 1/2"GRID SPACING SHALL BE PRESSED INTO THE REPAIR AREA CONFORMING TO THE METAL CORRUGATIONS. THE METAL MESH SHALL EXTEND 2"PAST THE RUSTED AREAS. ADDITIONAL MATERIAL SHALL BE PLACED IN A SECOND COATING TO ENSURE THE METAL MESH IS IN FULLY ENGULFED BY THE PUTTY AND HAS A 1/16"MINIMUM THICKNESS OVERTOP OF THE MESH. APPLY THE FIRST COAT OF EZ SPRAY CERAMIC AT A THICKNESS OF APPROXIMATELY 15 MIL (0.015 IN) DURING THE RECOAT TIME PERIOD OF 2-4 HOURS AFTER THE PLASTIC STEEL PUTTY IS APPLIED TO ENSURE PROPER ADHESION. APPLY A SECOND COAT OF EZ SPRAY CERAMIC AT A THICKNESS OF APPROXIMATELY 15 MIL (0.015 IN) DURING THE RECOAT TIME PERIOD OF 4-6 HOURS AFTER THE FIRST COAT WAS APPLIED TO ENSURE PROPER ADHESION. OR

REPAIR USING LOCTITE EA 3471 NA (FIXMASTER STEEL PUTTY): FILL HOLES THAT ARE LEAKING BACKFILL WITH EXPANDABLE FOAM (LOCTITE TITE FOAM), HYDRAULIC CEMENT, OR OTHER REPAIR METHODS AS NECESSARY. THE FILL MATERIAL SHALL NOT REDUCE THE REPAIR THICKNESS BY EXTENDING INTO THE THICKNESS OF THE CONDUIT WALL. CLEAN THE SURFACE WITH LOCTITE 7840 TO REMOVE ANY OIL, GREASE, OR DIRT. GRIT BLAST AREAS WITH AN 8-40 MESH GRIT TO AN SSPC SP-10 PROFILE. APPLY LOCTITE FIXMASTER STEEL PUTTY TO FILL THE AREAS OF SECTION LOSS AND RUSTING PLUS AN ADDITIONAL 4" PERIMETER IN ALL DIRECTIONS. AN 18 GAUGE FALVANIZED METAL MESH WITH ½" GIRD SPACING SHALL BE PRESSED INTO THE REPAIR AREA CONFORMING TO THE METAL CORRUGATIONS. THE METAL MESH SHALL EXTEND 2" PAST THE RUSTED AREA. TREAT WITH ONE COAT OF LOCTITE PC 7693 GALVANIZING COATING COMPOUND PER REPAIR METHOD A FOR A DISTANCE OF 12" PAST THE LIMITS OF RUST. THE SECTION LOSS SHALL BE FILLED PLUS AN ADDITIONAL MINIMUM THICKNESS OF 1/16" OF MATERIAL SHALL BE SPREAD OVER THE REPAIR AREA. AN 18 GAGE, GALVANIZED METAL MESH WITH A 1/2" GRID SPACING SHALL BE PRESSED INTO THE REPAIR AREA CONFORMING TO THE METAL CORRUGATIONS. THE METAL MESH SHALL EXTEND 2" PAST THE RUSTED AREA. ADDITIONAL MATERIAL SHALL BE PLACED IN A SECOND COATING TO ENSURE THE METAL MESH IS FULLY ENGULFED BY THE PUTTY AND HAS A 1/16" MINIMUM THICKNESS OVERTOP OF THE MESH.

PAYMENT FOR ALL REPAIRS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 CONDUIT, MISC.: REPAIR METHOD C. QUANTITIES LISTED ON PLAN SHEETS ARE FOR ESTIMATE PURPOSES ONLY AND SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF ANY QUANTITY DISCREPENCIES.

ENDANGERED BAT HABITAT REMOVAL

THIS 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 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA.

MOCK UP

FOR REPAIR METHOD A, REPAIR METHOD B, AND REPAIR METHOD C, THE CONTRACTOR SHALL CONDUCT A SEPARATE MOCK-UP REPAIR USING THE PRODUCTS CHOSEN BY THE CONTRACTOR FOR EACH REPAIR METHOD. THE MOCK-UP SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER AND THE PRODUCT'S REPRESENTATIVE FOR ACCEPTANCE OF THE APPLICATION, MEANS AND METHODS. THIS MOCK-UP MAY BE CONDUCTED ON A REPRESENTATIVE SECTION OF THE DEFECTIVE PIPE AT A LOCATION AGREED UPON BY THE ENGINEER. UPON ACCEPTANCE OF THE MOCK-UP BY THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH PROJECT REPAIRS. **GENERAL NOTES**

DESIGN AGENCY



REVIEWER XXX MM-DD-Y PROJECT ID 94182 SHEET TOTAL P.3 15

ACCESS BEHIND GUARDRAIL

REMOVE AND RE-ERECT GUARDRAIL AS NECESSARY FOR ACCESS TO A WORK LOCATION. REMOVE GUARDRAIL ONLY WHEN IT CAN BE REPLACED ON THE SAME DAY. OBTAIN APPROVAL FROM THE ENGINEER FOR EACH LOCATION, PRIOR TO PERFORMING THE WORK. THIS WORK INCLUDES REMOVAL OF EXISTING GUARDRAIL AND POSTS AND RE-ERECTION OF THE SAME MATERIALS. EXISTING RAIL ELEMENTS AND BARRIER REFLECTORS MAY BE REUSED. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

SPECIAL, PIPE CLEANOUT, OVER 48" 678 FT.

TEMPORARY ACCESS FILL

COFFERDAMS AND EXCAVATION BRACING INSTALLED FOR THE PROJECT ARE FOR DEWATERING THE WORK AREA. COFFERDAMS AND EXCAVATION BRACING DESIGN, CONSTRUCTION, AND REIMBURSEMENT FOR DAMAGE IS BASED ON CMS 503. THE CONTRACTOR MUST COMPLY WITH THE IN-STREAM RESTRICTION IN THE SPECIAL PROVISIONS WATERWAY PERMIT. ADDING FILL TO THE STREAM TO DEWATER THE WORK AREA REQUIRES A TEMPORARY ACCESS FILL (TAF) SUBMISSION PER THE SPECIAL PROVISIONS. FILLING AN EXCAVATED AREA AFTERWARDS IS CONSIDERED A PERMANENT FILL AND MAY VIOLATE THE WATERWAY PERMIT'S THRESHOLDS OF IMPACTS.

IF THE CONTRACTOR CHOOSES TO IMPACT THE STREAM DURING THE MONTHS OF APRIL THROUGH OCTOBER: ALL REQUIREMENTS OF CMS 503 APPLY, UNLESS STIPULATED ELSEWHERE IN THIS NOTE. THE REHABILITATION WORK REQUIRED IN THE PLANS MUST BE COMPLETED IN SECTIONS. THE LONGEST SECTION THAT CAN BE COMPLETED AT ONE TIME IS 300'. IF THE CONTRACTOR CHOOSES TO COMPLETE SECTIONS GREATER THAN 300' AT A TIME, THEN THE DEPARTMENT WILL ONLY REIMBURSE THE CONTRACTOR FOR RESULTING DAMAGE TO 300' OF WORK PROTECTED BY THE COFFERDAM, PROVIDED THE CONTRACTOR HAS EXERCISED DUE DILIGENCE AS DETERMINED BY THE ENGINEER.

IF THE CONTRACTOR CHOOSES TO IMPACT THE STREAM AT ANY TIME IN THE MONTHS OF NOVEMBER THROUGH MARCH: EVEN IF THE ACTUAL WATER ELEVATION EXCEEDS 3 FEET ABOVE THE STATED ORDINARY HIGH WATER MARK, THE DEPARTMENT WILL NOT REIMBURSE THE CONTRACTOR FOR RESULTING DAMAGE TO THE WORK PROTECTED BY THE COFFERDAM. ALL OTHER REQUIREMENTS OF CMS 503 APPLY.

<u>UTILITIES</u>

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER, OR ADJACENT TO, THE WORK AREA.

MOCK UP

FOR REPAIR METHOD A, REPAIR METHOD B, AND REPAIR METHOD C, THE CONTRACTOR SHALL CONDUCT A SEPARATE MOCK-UP REPAIR USING THE PRODUCTS CHOSEN BY THE CONTRACTOR FOR EACH REPAIR METHOD. THE MOCK-UP SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER AND THE PRODUCT'S REPRESENTATIVE FOR ACCEPTANCE OF THE APPLICATION, MEANS AND METHODS. THIS MOCK-UP MAY BE CONDUCTED ON A REPRESENTATIVE SECTION OF THE DEFECTIVE PIPE AT A LOCATION AGREED UPON BY THE ENGINEER. UPON ACCEPTANCE OF THE MOCK-UP BY THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH PROJECT REPAIRS. PAYMENT FOR MOCK UPS IS INCIDENTAL TO THE DIFFERENT REPAIR METHODS.

EAST FORK STATE PARK (CLE-125-10.12)

THE CONTRACTOR WILL INSTALL AND MAINTAIN TEMPORARY CONSTRUCTION FENCING ALONG THE KNOWN BOUNDARIES OF EAST FORK STATEPARK WITHIN THE ROJECT CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

DRINKING WATER PROTECTION AREA (CLE-125-10.12)

CULVERT MAINTENANCE AT CLE-125-10.12 IS LOCATED OVER A PORTION OF THE INLAND SURFACE WATER SOURCE WATERSHED AND CORRIDOR MANAGEMENT ZONE FOR THE CLERMONT PUBLIC WATER SYSTEM (OH1302212). IN ORDER TO MINIMIZE THE POTENTIAL FOR A RELEASE IN THIS SENSITIVE AREA. ALL PROJECT RELATED FUELING AND/OR MAINTENANCE ACTIVITIES ARE TO BE UNDERTAKEN IN AN ENVIRONMENTALLY RESPONSIBLE MANNER.. THE CONTRACTOR SHALL UTILIZE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS, AND SHALL NOT STORE AND IDLE EQUIPMENT, FUELS AND ANY TOXIC/HAZARDOUS MATERIALS AND CHEMICALS NEAR ANY DRAINAGE WAYS. DITCHES OR STREAMS. A SPILL KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. REPORT ALL SPILLS OR EVENTS TO THE CLERMONT COUNTY WATERWORKS DIVISION (513-732-7970) AND REFERENCE THE BOB MCEWEN WATER TREATMENT PLANT. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTACT THE BETHEL-TATE FIRE DEPARTMENT (513-734-4444), LOCAL EMERGENCY COORDINATOR (513-553-4113) AND THE OEPA (1-800-282-9378) WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

ITEM 614, MAINTAINING TRAFFIC

ALL LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. ON SR 125, LANE CLOSURES ARE PERMITTED PER MT-95.31 DURING WORKING HOURS; EXCEPT ALL EASTBOUND LANES SHALL BE OPEN TO TRAFFIC FROM 3 PM TO 6 PM. ON ALL OTHER ROUTES, LANE CLOSURES ARE PERMITTED PER MT-97.10 DURING WORKING HOURS.

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 YEAR'S LABOR DAY MEMORIAL DAY THANKSGIVING (OTHER HOLIDAY OR EVENT)

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

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

SUNDAY12:00N FRIDAY THROUGH 6:00AM MONDAYMONDAY12:00N FRIDAY THROUGH 6:00AM TUESDAYTUESDAY12:00N MONDAY THROUGH 6:00AM WEDNESDAYWEDNESDAY12:00N TUESDAY THROUGH 6:00AM THURSDAYTHURSDAY12:00N WEDNESDAY THROUGH 6:00AM FRIDAYTHURSDAY(THANKSGIVING ONLY)

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

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

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

GENERAL NOTES	
DESIGN AGENCY	
DESIGNER SEC REVIEWER XXX MM-DD-YY PROJECT ID 94182 SHEET TOTAL P.4 15	

	SHEET NUM.				PA	RT.		ITEM	GRAND			SEE					
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									19		201	11000	19				
	82	102	248	90	156				430	248	SPECIAL	20270130	678	FT	PIPE CLEANOUT OVER 48"	4	
	LS								LS	LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		
															MISCELLANEOUS STRUCTURE		
	469	603	110	228	261				1,562	109	611	97700	1,671	SF	CONDUIT, MISC.:REPAIR METHOD A	3	
	229	67	93	120	193			 	609 31	93	611	97700	702	SF	CONDUIT, MISC :REPAIR METHOD B	3	
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LEGEND



REPAIR METHOD A

REPAIR METHOD B

REPAIR METHOD C









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TIME: 8:33:57 AM USER: gtout ents/01Active Projects/Distr D08 CULVERT REPAIR FY2022 DATE: 1/18/2022 PAPERSIZE: 17×II (In.) MODEL: Sheet



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LEGEND

ESTIMATED QUANTITIES (CLE-125-10.12)			
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
202	248	FT	SPECIAL - PIPE CLEANOUT OVER 48"
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING
611	110	SF	CONDUIT, MISC.: REPAIR METHOD A
611	93	SF	CONDUIT, MISC.: REPAIR METHOD B

D08 CULVERT REPAIR FY2022

ED QUANTITIES (CLE-222-29.07)
DESCRIPTION
PECIAL - PIPE CLEANOUT OVER 48"
OFFERDAMS AND EXCAVATION BRACING
ONDUIT, MISC.: REPAIR METHOD A
ONDUIT, MISC.: REPAIR METHOD B
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D08 CULVERT REPAIR FY2022

TIME: 8:35:39 AM USER: gtout ents/01Active Projects/Distr DATE: 1/18/2022 tot-ow-02/Docum PAPERSIZE: I7xII (in.) MODEL: Sheet

LEGEND

REPAIR METHOD A

REPAIR METHOD B

REPAIR METHOD C

