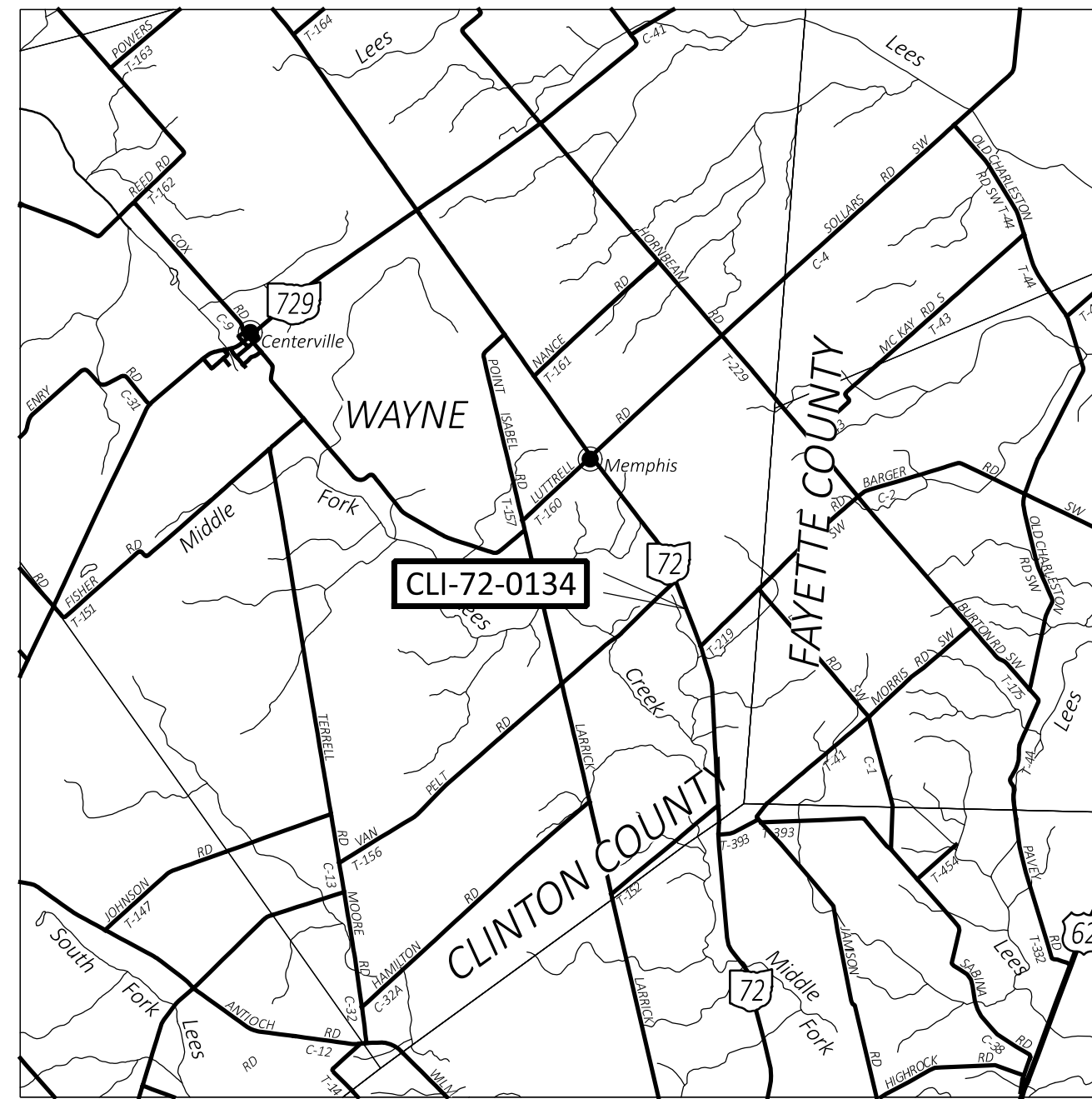
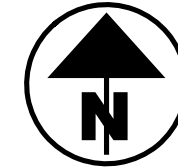
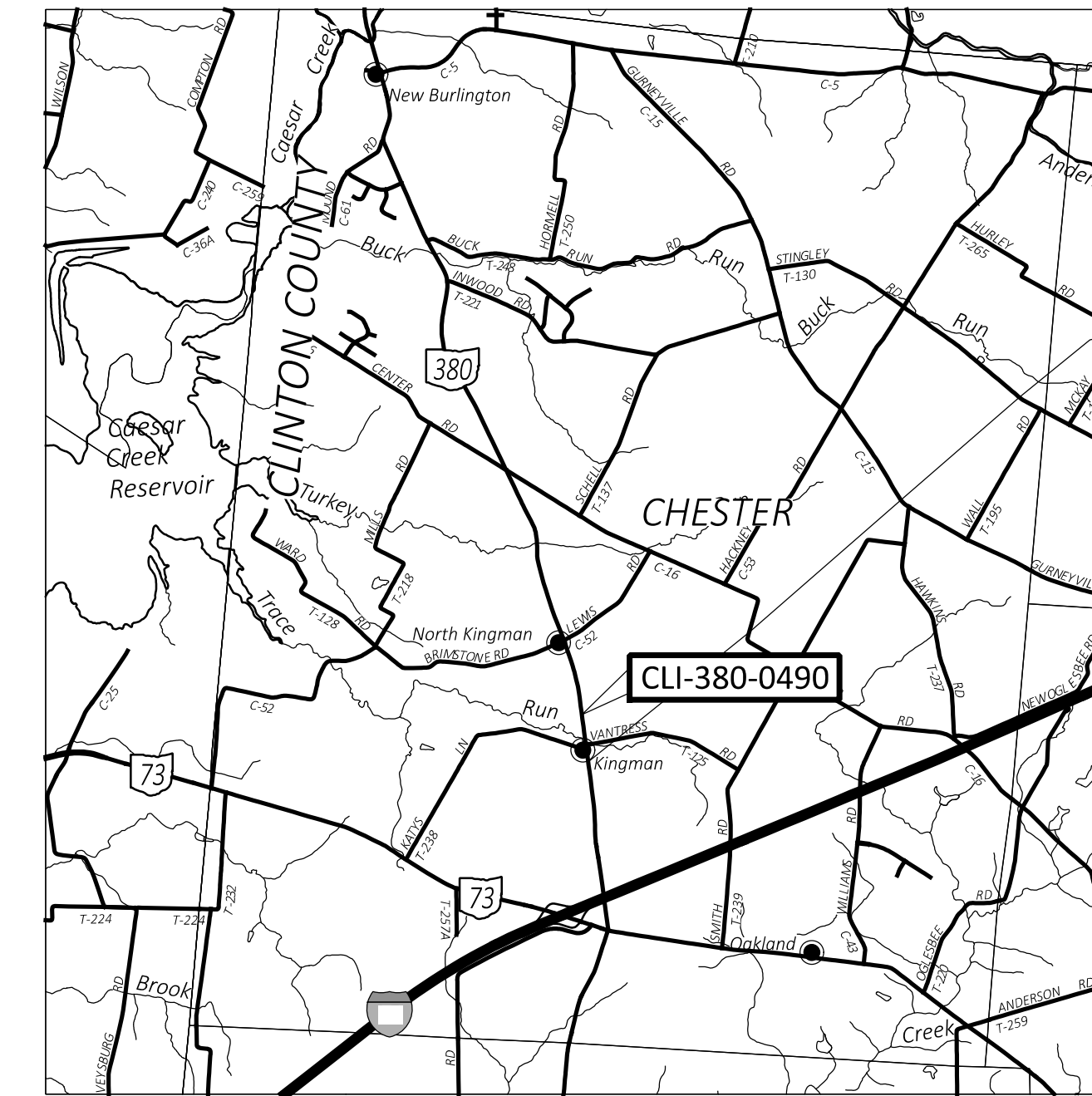


CLI-350-11.24: LAT: 39.355823 LONG: -83.80516  
 CLI-350-10.77: LAT: 39.356756 LONG: -83.81385



CLI-72-01.34: LAT: 39.396456 LONG: -83.5982



CLI-380-04.90: LAT: 39.504326 LONG: -83.94033



**LOCATION MAP LEGEND**

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

**DESIGN DESIGNATIONS**

	CLI-350-11.24	CLI-350-10.77	CLI-72-01.34	CLI-380-04.90
CURRENT ADT (2026)	1,200	1,200	1,500	3,000
DESIGN YEAR ADT (2046)	1,300	1,300	1,500	4,000
DESIGN HOURLY VOLUME (2046)	150	150	150	500
DIRECTIONAL DISTRIBUTION	62.5	62.5	60.6	53.3
TRUCKS (24 HOUR B&C)	9	9	17	6
DESIGN SPEED	60	60	60	60
LEGAL SPEED	55	55	55	55
DESIGN FUNCTIONAL CLASSIFICATION:	MAJOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR
NHS PROJECT	NO	NO	NO	NO



**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.

**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 AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING**

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

**COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN**

COFFERDAMS AND EXCAVATION BRACING INSTALLED FOR THE PROJECT ARE FOR DEWATERING THE WORK AREA AND ARE CONSIDERED FILL. COFFERDAMS AND EXCAVATION BRACING DESIGN, CONSTRUCTION, AND REIMBURSEMENT FOR DAMAGE IS BASED ON CMS 503. THE CONTRACTOR MUST COMPLY WITH ANY 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.

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.

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.

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING	775 SY
659, COMMERCIAL FERTILIZER	0.10 TON
659, LIME	0.16 ACRES
659, WATER	4.2 M. GAL.
659, TOPSOIL	86 CY

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**UTILITIES**

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

(List all sanitary, telephone, electric, gas, water, cable TV, etc.)

(Name of Owner, Street or P.O. Box, City, State, Zip Code, and Emergency Telephone Number.)

GENERAL NOTES

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

XXX MM-DD-YY

PROJECT ID

112992

SHEET TOTAL

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**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. REPAIR AREAS AS SHOWN IN THE PLANS PER ONE OF THE FOLLOWING MANUFACTURES PRODUCTS:

REPAIR USING DIAMANT/STRONGHOLD ONE METAL SEALER: CLEAN SURFACE TO BE TREATED WITH DIAMANT CLEANER #1417 TO REMOVE ANY OIL, GREASE OR DIRT. APPLY DICTHOL 1546 BLUE BY BRUSH OR BY SPRAY METHOD (BRUSH ONLY IF PERFORMED OVER STANDING WATER) 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. USE SALT REMOVER SUCH AS CHLOR-RID OR APPROVED EQUAL TO REMOVE SALTS. 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 REPAIR 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. PRIOR TO CMP REPAIR DESCRIBED BELOW, ANY REPAIR AREA EXHIBITING ACTIVE WATER INFILTRATION SHALL BE SEALED WITH AN ALL-WEATHER CMP COMPATIBLE HYDROPHOBIC GROUT. THE EXISTING CMP SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND HYDROPHOBIC GROUT SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER. 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 DICTHOL 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 0.0125" 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. EZ SPRAY CERAMIC SHALL BE PLACED 12" PAST THE LIMITS OF RUST.

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 SHALL BE 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 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 DICTHOL 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 1/8" 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 FULLY ENGULFED BY THE PUTTY AND HAS A 1/16" MINIMUM THICKNESS OVERTOP OF THE MESH.

OR

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 APPROVED 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 1/8" 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 FULLY ENGULFED BY THE PUTTY AND HAS A 1/16" MINIMUM THICKNESS OVERTOP OF THE MESH. FOR A DISTANCE OF 12" AROUND THE RUSTED AREA 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 FOR A DISTANCE OF 12" PAST THE LIMITS OF RUST. 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 1/8" 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 1/8" 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.

**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.

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

XXX MM-DD-YY

PROJECT ID

112992

SHEET TOTAL

04 11

**ITEM 614 - MAINTAINING TRAFFIC**

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, EXCEPT ONE LANE OF TWO WAY TRAFFIC MAY BE MAINTAINED DURING WORKING HOURS.

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

- NEW YEAR'S (OBSERVED) GENERAL/REGULAR ELECTION DAY ((NOV)
- TOTAL SOLAR ECLIPSE (4/8/24) THANKSGIVING
- MEMORIAL DAY CHRISTMAS (OBSERVED)
- FOURTH OF JULY (OBSERVED) (OTHER HOLIDAY OR SPECIAL EVENT)
- LABOR DAY

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

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

- SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY
- MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY
- MONDAY (TOTAL SOLAR ECLIPSE)  
 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
- TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
- TUESDAY (GEN./REG. ELECTION)  
 5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
- WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY
- THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
- THURSDAY (THANKSGIVING ONLY)  
 6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
- FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY
- SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

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

DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISCENTIVE \$ PER TIME UNIT PER LANE
ALL LANES ON CLI-350-1124 OPEN TO TRAFFIC	NO RESTRICTION	1 MINUTE	\$10
ALL LANES ON CLI-350-1077 OPEN TO TRAFFIC	NO RESTRICTION	1 MINUTE	\$10
ALL LANES ON CLI-72-0134 OPEN TO TRAFFIC	NO RESTRICTION	1 MINUTE	\$15
ALL LANES ON CLI-380-0490 OPEN TO TRAFFIC	NO RESTRICTION	1 MINUTE	\$30

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 ANUAL 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.

**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.

MOT NOTES

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

XXX MM-DD-YY

PROJECT ID

112992

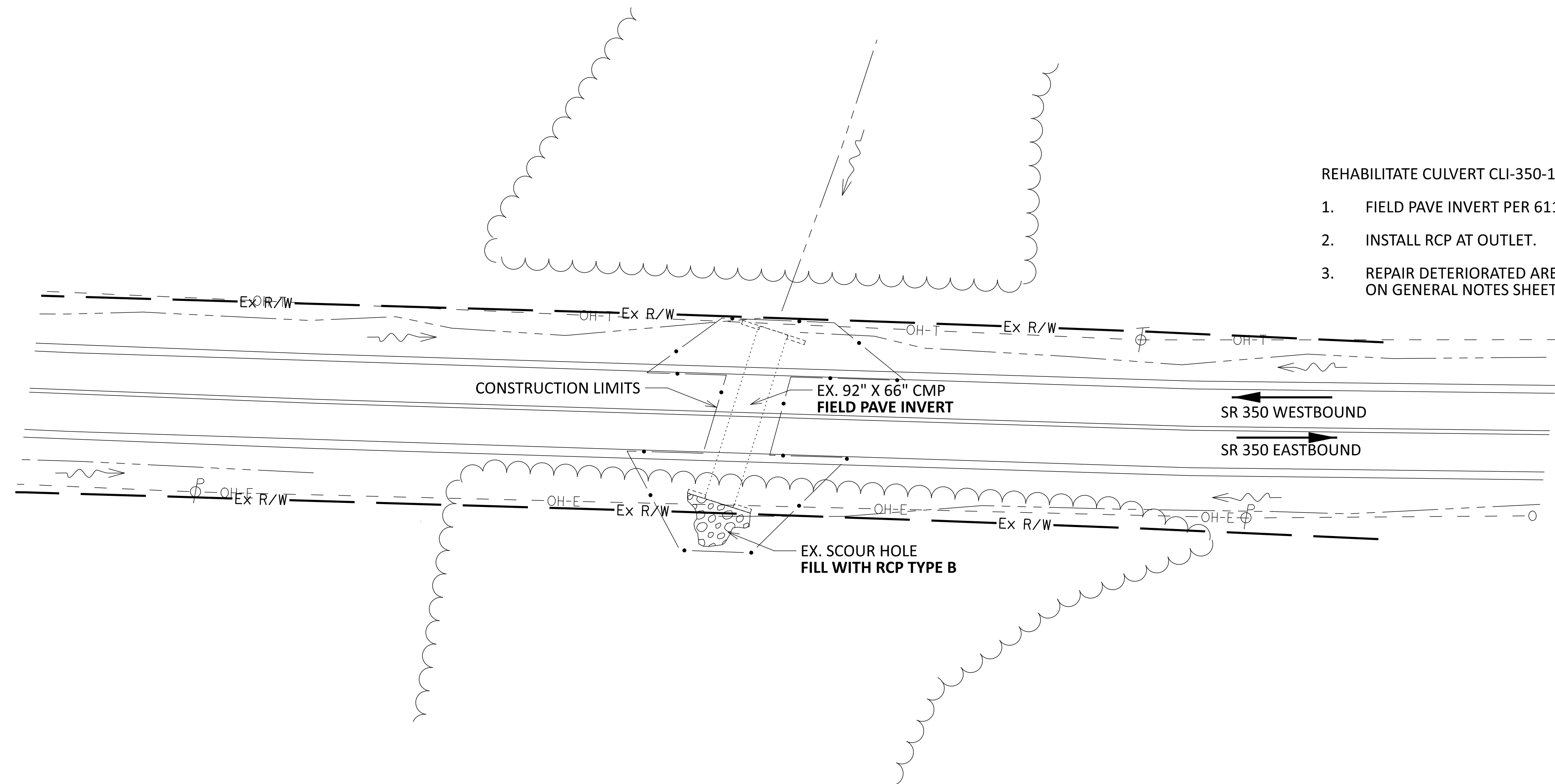
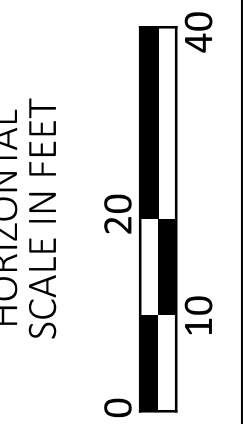
SHEET TOTAL

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PROJECT EARTH DISTURBED AREA: 0.04 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED (ROUTINE MAINTENANCE)

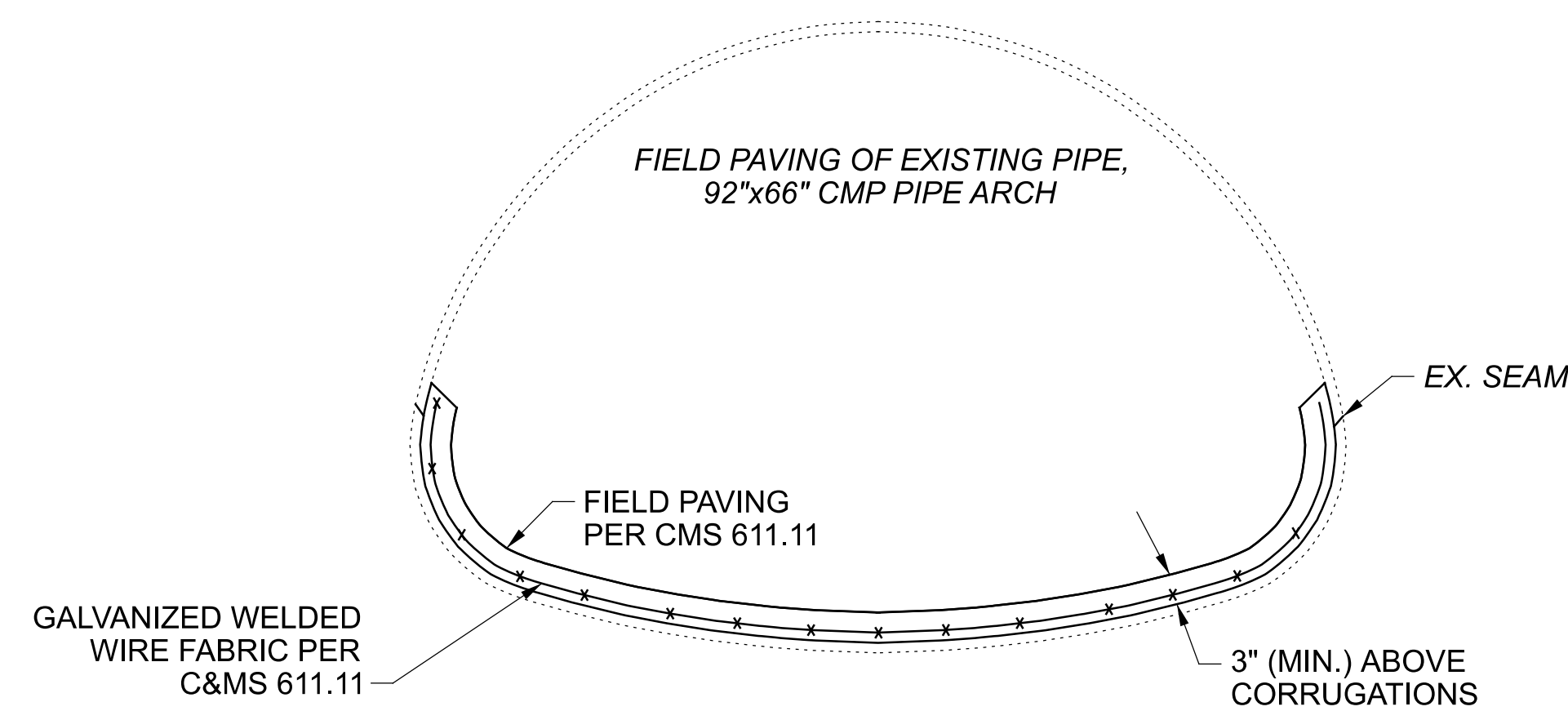


REHABILITATE CULVERT CLI-350-1124 BY PERFORMING THE FOLLOWING WORK:

1. FIELD PAVE INVERT PER 611.11 UP TO RUST LINE. ENSURE NEWLY PAVED INVERT IS PROPERLY SLOPED TO ALLOW POSITIVE DRAINAGE.
2. INSTALL RCP AT OUTLET.
3. REPAIR DETERIORATED AREAS OF STEEL AS DEPICTED ON THE CULVERT DETAIL SHEET WITH METHODS, A, B, OR C PER NOTES ON GENERAL NOTES SHEET

**EXISTING STRUCTURE**

TYPE: CORRUGATED METAL - SECTIONAL PLATE  
 SIZE: 92" x 66" x 46' LONG  
 SKEW: 0°  
 ALIGNMENT: TANGENT  
 DATE BUILT: 1964  
 CONDITION: POOR  
 CFN: 1873978



**FIELD PAVING OF EXISTING PIPE**

FIELD PAVE THE EXISTING PIPE PER THE REQUIREMENTS OF 611.11. PROVIDE A 2:1 SLOPE AT THE TOP OF THE PAVED INVERT TO PREVENT WATER FROM SITTING ON THE TOP EDGE AS SHOWN IN THE PLAN DETAIL.

REMOVAL OF SEDIMENT AND DEBRIS FROM THE EXISTING PIPE, BEFORE FIELD PAVING, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 FIELD PAVING OF EXISTING PIPE.

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**ESTIMATED QUANTITIES**

ITEM	QUANTITY	UNIT	DESCRIPTION
201	LS	LS	CLEARING AND GRUBBING
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
601	12	CY	ROCK CHANNEL PROTECTION, TYPE B W/FILTER
611	46	FT	FIELD PAVE INVERT, 92" x 66" CMP
611	109	SF	CONDUIT. MISC: REPAIR METHOD A

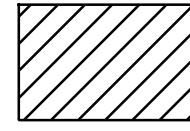
CULVERT PLAN  
 CLI-350-11.24

DESIGN AGENCY



DESIGNER: **MLB**  
 REVIEWER:  
 PROJECT ID: **112992**  
 SHEET: **07** TOTAL: **11**

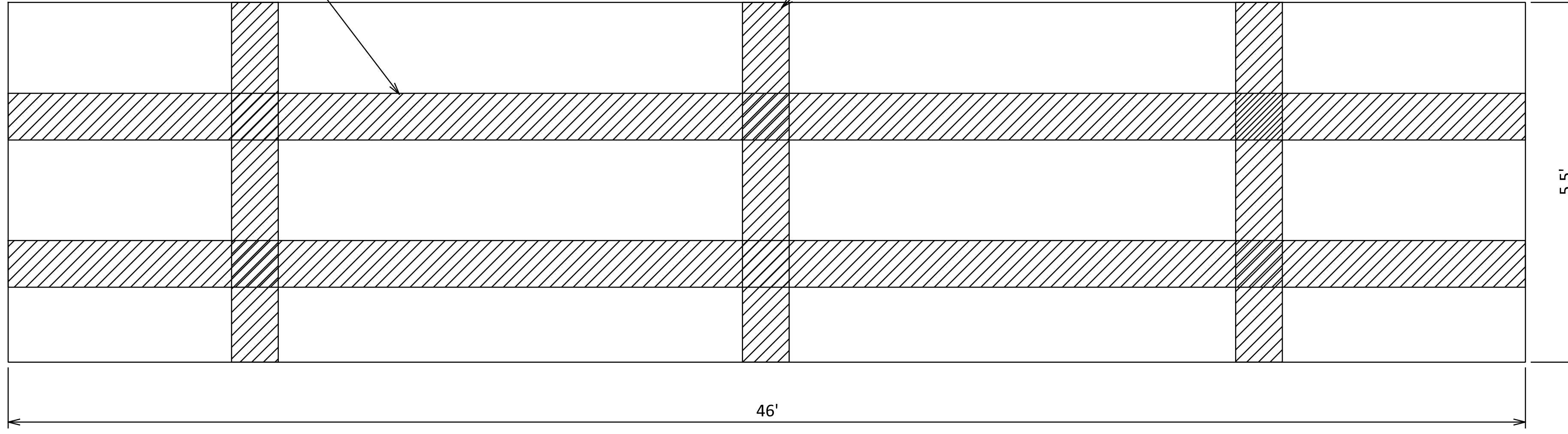
LEGEND



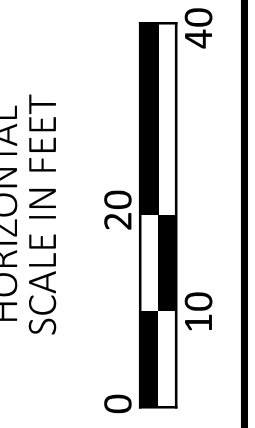
REPAIR METHOD A

BOTH LONGITUDINAL SEAMS TO BE METHOD A - 1' WIDE

ALL 3 CIRCUMFERENTIAL SEAMS TO BE METHOD A - 1' WIDE

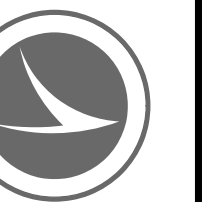


PLAN VIEW



CLI-350-1124 CULVERT DETAIL

DESIGN AGENCY



DESIGNER  
MLB

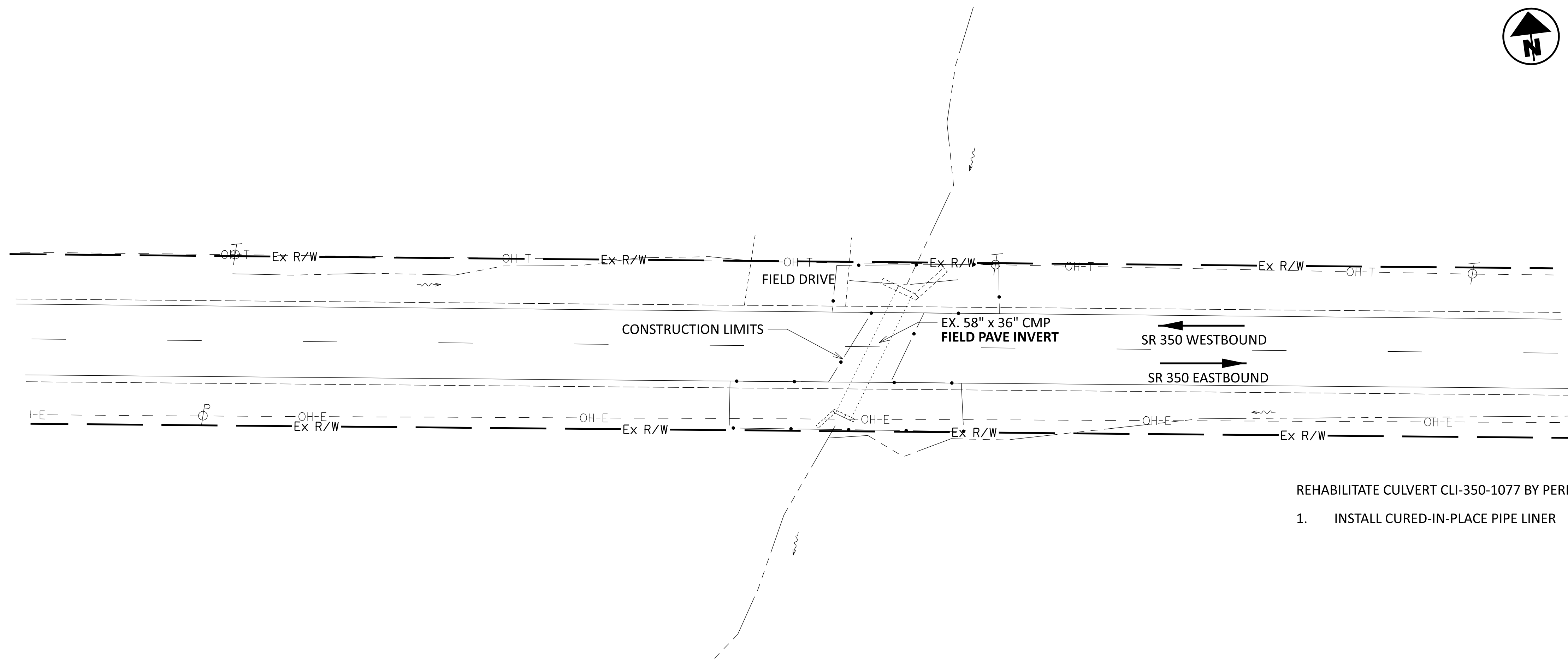
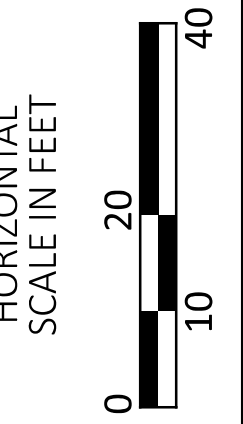
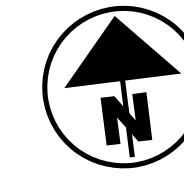
REVIEWER  
XXX MM-DD-YY

PROJECT ID  
112992

SHEET TOTAL  
08 11



PROJECT EARTH DISTURBED AREA: 0.05 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED (ROUTINE MAINTENANCE)



REHABILITATE CULVERT CLI-350-1077 BY PERFORMING THE FOLLOWING WORK:

1. INSTALL CURED-IN-PLACE PIPE LINER

**EXISTING STRUCTURE**

TYPE: CORRUGATED METAL - PIPE  
 SIZE: 58" x 36" x 42' LONG  
 SKEW: 22°  
 ALIGNMENT: TANGENT  
 DATE BUILT: 1957  
 CONDITION: POOR  
 CFN: 1870601

**ESTIMATED QUANTITIES**

ITEM	QUANTITY	UNIT	DESCRIPTION
201	LS	LS	CLEARING AND GRUBBING
202	42	FT	SPECIAL - PIPE CLEANOUT OVER 48"
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
899	42	FT	CURED-IN-PLACE PIPE LINER, 58" x 36"

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**PIPE CLEANOUT**

REMOVE ANY LOOSE EXISTING BITUMINOUS COATING AND REMAINING BITUMINOUS MATERIAL COATING. REMOVE THE MATERIAL USING METHODS ACCORDING TO 512.03.F, MECHANICAL MEANS OR OTHER METHODS APPROVED BY THE ENGINEER. ANY BITUMINOUS COATING OR MATERIAL THAT SURVIVES A 7,000 PSI WATER BLASTING MAY REMAIN IN PLACE. ENSURE THAT ALL WASTES GENERATED BY THE SURFACE PREPARATION OPERATION ARE MANAGED IN ACCORDANCE WITH 107.19.

CULVERT PLAN  
 CLI-350-10.77

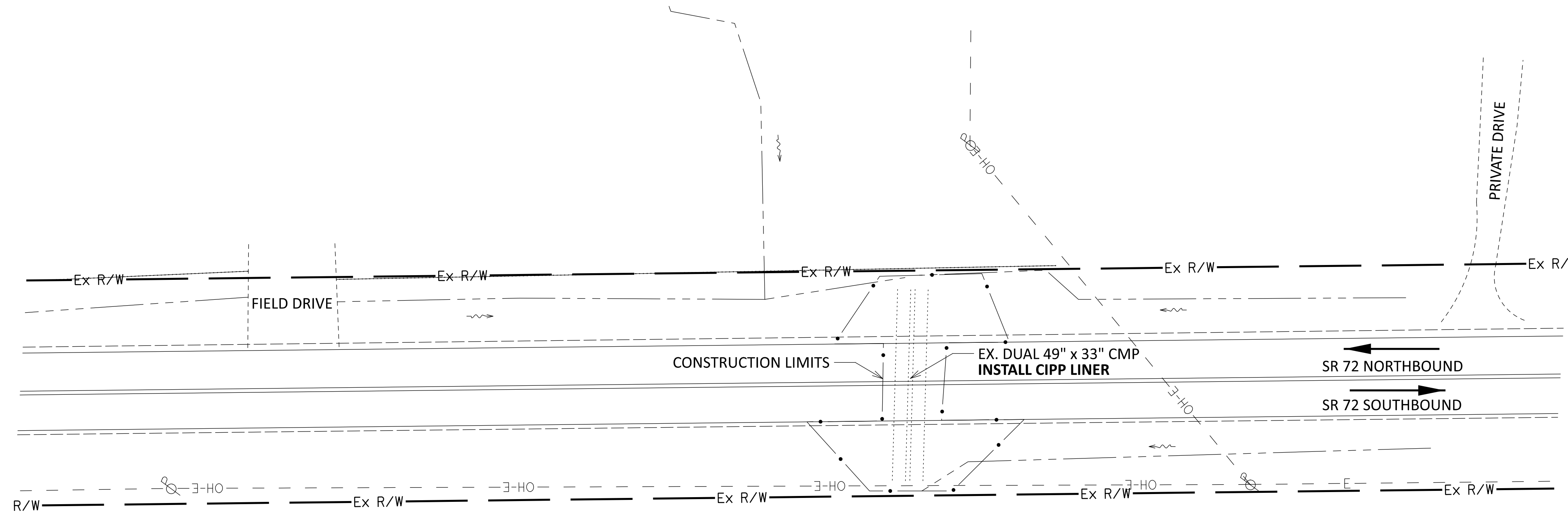
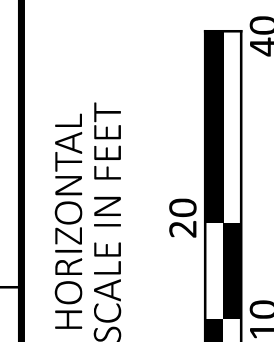
DESIGN AGENCY



DESIGNER: **MLB**  
 REVIEWER: XXX MM-DD-YY  
 PROJECT ID: 112992  
 SHEET: 09 TOTAL: 11



PROJECT EARTH DISTURBED AREA: 0.04 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED (ROUTINE MAINTENANCE)



REHABILITATE CULVERT CLI-72-0134 BY PERFORMING THE FOLLOWING WORK:

1. INSTALL CIPP LINER FOR BOTH OF THE PIPES AT THIS LOCATION.

**EXISTING STRUCTURE**

TYPE: CORRUGATED METAL - PIPE  
 SIZE: 49" x 33" x 51' LONG  
 SKEW: 0°  
 ALIGNMENT: TANGENT  
 DATE BUILT: 1976  
 CONDITION: POOR  
 CFN: 1883932

**ESTIMATED QUANTITIES**

ITEM	QUANTITY	UNIT	DESCRIPTION
201	LS	LS	CLEARING AND GRUBBING
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
899	102	FT	CURED-IN-PLACE PIPE LINER, 49" x 33"

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACTOR BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

CULVERT PLAN  
 CLI-72-01.34

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

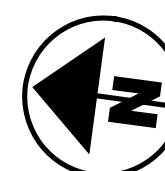
XXX MM-DD-YY

PROJECT ID

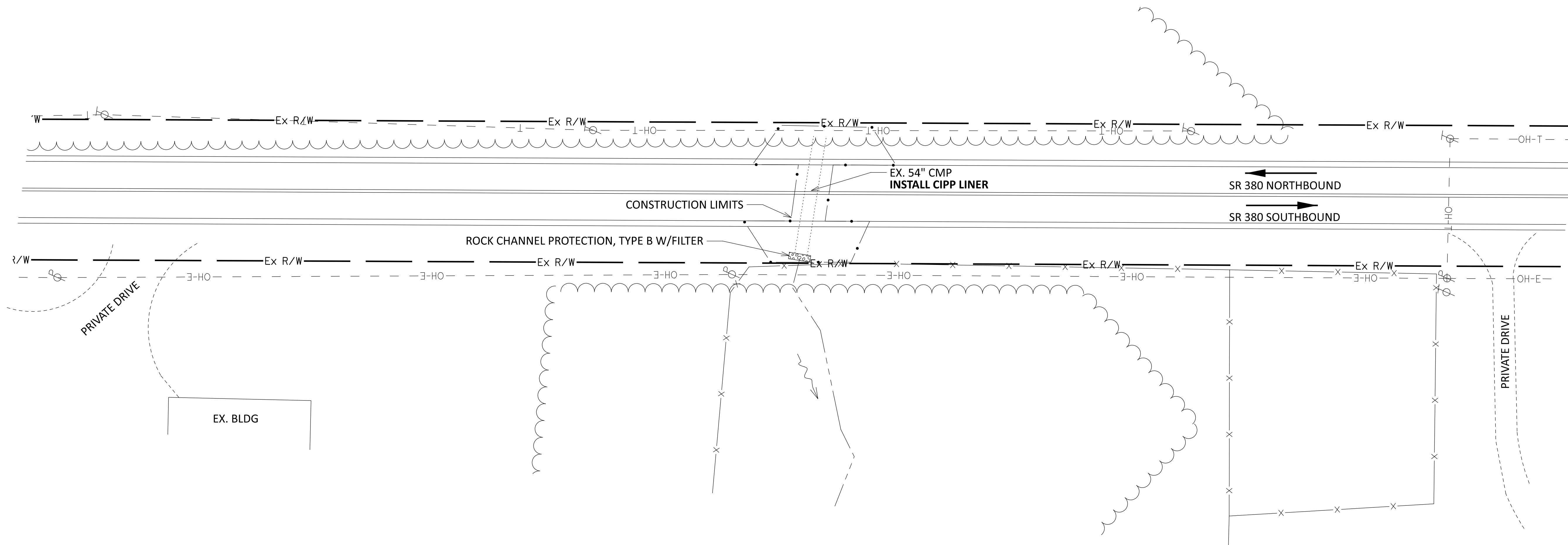
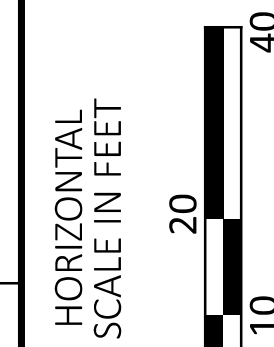
112992

SHEET TOTAL

10 11



PROJECT EARTH DISTURBED AREA: 0.03 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: NO NOI REQUIRED (ROUTINE MAINTENANCE)



REHABILITATE CULVERT CLI-380-0490 BY PERFORMING THE FOLLOWING WORK:

1. INSTALL CIPP LINER
2. INSTALL RCP AT OUTLET UP TO FENCE LINE

**EXISTING STRUCTURE VERIFICATION**  
 DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LS	LS	CLEARING AND GRUBBING
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
601	4	CY	ROCK CHANNEL PROTECTION, TYPE B W/FILTER
899	42	FT	CURED-IN-PLACE PIPE LINER, 54"

EXISTING STRUCTURE	
TYPE:	CORRUGATED METAL - PIPE
SIZE:	54" x 42' LONG
SKEW:	6°
ALIGNMENT:	TANGENT
DATE BUILT:	
CONDITION:	POOR
CFN:	1818846

CULVERT PLAN  
 CLI-380-04.90

DESIGN AGENCY

DESIGNER  
**MLB**

REVIEWER  
 XXX MM-DD-YY

PROJECT ID  
 112992

SHEET	TOTAL
11	11