

UTILITIES

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

BUTLER RURAL ELECTRIC COOPERATIVE, INC.
3888 STILLWELL-BECKETT ROAD
OXFORD, OH 45056
513-867-4438 (RAY BRUNNER)
RAYB@BUTLERRURAL.COOP

DUKE ENERGY - ELECTRIC (DISTRIBUTION)
2010 DANA AVE
CINCINNATI, OH 45207
513-514-8211 (AARON WRIGHT)
AARON.WRIGHT@DUKE-ENERGY.COM

CINCINNATI BELL - AERIAL & PLACING
221 E. 4TH ST., BLDG. 121-900
CINCINNATI, OH 45201
513-565-6014 (ROB STROCHINSKY)
ROBERT.STROCHINSKY@CINBELL.COM
ROADPROJECTS@CINBELL.COM

CINCINNATI BELL - UNDERGROUND STRUCTURES
221 E. 4TH ST., BLDG. 121-900
CINCINNATI, OH 45201
513-565-7187 (OFFICE)
BRECK.COWAN@CINBELL.COM
ROADPROJECTS@CINBELL.COM

SOUTHWEST REGIONAL WATER DISTRICT
3640 OLD OXFORD HIGHWAY
HAMILTON, OH 45013
513-863-0828 (TOM PUCKETT)
PUCKETT@SWWATER.ORG

CHARTER COMMUNICATIONS
10920 KENWOOD ROAD
BLUE ASH, OHIO 45242
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM
513-386-5499 (KENT RIEGER)
KENT.RIEGER@CHARTER.COM

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.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, FOLLOW ALL LOCAL NOISE ORDINANCE RESTRICTIONS. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SOLE SOURCE AQUIFER

THIS PROJECT IS LOCATED WITHIN THE GREAT MIAMI SOLE SOURCE AQUIFER. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO BUTLER COUNTY WATER AND SEWER, (513) 887-3066. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), CONTACT REILY TOWNSHIP FIRE DEPARTMENT & EMS (STATION 131), (513) 756-0814 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

SEEDING AND MULCHING

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

659, SEEDING AND MULCHING 500 SQ. YD.
659, COMMERCIAL FERTILIZER 0.05 TON
659, LIME 0.1 ACRES
659, WATER 1.4 M. GAL.

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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 7 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: IRON PINS
VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAV 88
GEOID: 18
HORIZONTAL POSITIONING
REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE (3402)
COMBINED SCALE FACTOR: 1.00000000
ORIGIN OF COORDINATE SYSTEM: N=0 E=0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623. UNITS ARE IN U.S. SURVEY FEET.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

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

CLEARING AND GRUBBING, AS PER PLAN

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. WORK TO BE INCLUDED IN THIS PAY ITEM IS TO INCLUDE THE REMOVAL OF ALL DEBRIS WITHIN THE VICINITY OF THE PIER.

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.

INDIANA BAT HABITAT

ENSURE IMPACTS TO THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT ARE AVOIDED AND MINIMIZED. DO NOT REMOVE TREES FROM APRIL 1 THROUGH SEPTEMBER 30. PERFORM ALL NECESSARY TREE REMOVAL FROM OCTOBER 1 THROUGH MARCH 31. 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.

A+B BIDDING CONTRACT TABLE

USE THE FOLLOWING INFORMATION IN COMBINATION WITH THE PROPOSAL NOTE 124 A+B BIDDING:

THE CONTRACTOR WILL BID THE NUMBER OF CALENDER DAYS TO COMPLETE THE PROJECT AS LISTED IN THE PROPOSAL. THE DEPARTMENT WILL NEED 1 DAY FOR INSPECTION, REPORTING AND EVALUATION DESCRIBED IN THE INSPECTION OF EXISTING STRUCTURAL STEEL NOTE. THIS 1 DAY WILL BE CHARGED AS A CRITICAL WORK DAY AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR IN THE A+B SCHEDULING. IF REPAIR WORK IS RECOMMENDED IT WILL BE CONSIDERED EXTRA WORK IN WHICH AN EXTENSION TO THE A+B WILL BE GRANTED. ANY REPAIR WORK DEEMED NECESSARY AS A RESULT OF REMOVAL OPERATIONS WILL NOT BE GRANTED AN EXTENSION. SEE ITEM 202, PORTIONS OF STRUCTURE REMOVED NOTE.

LOCATION OF CRITICAL WORK	MINIMUM DAYS	MAXIMUM DAYS	INCENTIVE/ DISINCENTIVE \$ PER DAY	MAXIMUM INCENTIVE \$
COMPLETE BRIDGE DECK REPLACEMENT, APPROACH PAVEMENT WORK, FIELD PAINTING OF STRUCTURAL STEEL AND OPEN TRAFFIC UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO. BUT-732-0304)	60	80	\$3,000	\$30,000

ENVIRONMENTAL EXCLUSIONARY DATES (AQUATIC SPECIES)

TEMPORARY ACCESS FILLS PLACING FILL MATERIAL IN THE STREAM AS PART OF ITEM 503 - COFFERDAMS AND EXCAVATION BRACING SHALL NOT BE CONSTRUCTED FROM THE DATES BEGINNING 4/15 TO 7/1 AND ANY TEMPORARY ACCESS FILLS THAT FULLY SPAN THE ENTIRE WIDTH OF THE STREAM SHALL NOT BE CONSTRUCTED FROM THE DATES BEGINNING 9/15 TO 7/1. TEMPORARY ACCESS FILLS CONSTRUCTED OUTSIDE OF THESE EXCLUSIONARY DATES ARE PERMITTED TO STAY IN PLACE DURING THE EXCLUSIONARY PERIODS SET FORTH ABOVE. ANY WORK INVOLVING PLACEMENT OF FILL MATERIAL IN THE STREAM SHALL BE PERFORMED WITHIN THE DATES PROVIDED IN THE TABLE BELOW AND OUTSIDE OF THE EXCLUSIONARY DATES.

DESCRIPTION OF WORK	CALENDER DAYS TO COMPLETE	WORK WINDOW	
		START	END
CONSTRUCTION OF PART-WIDTH TEMPORARY ACCESS FILLS IN STREAM.	137	3/1/2022	10/1/2022

PETROLEUM CONTAMINATED SOILS NOTES

ENVIRONMENTAL WORK

ENVIRONMENTAL STUDIES HAVE SHOWN THAT THERE IS THE POTENTIAL FOR ENCOUNTERING PETROLEUM CONTAMINATED MATERIALS WITHIN THE PROJECT LIMITS. IN THE EVENT PETROLEUM-CONTAMINATED MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL MANAGE THIS MATERIAL ACCORDING TO THE FOLLOWING NOTES. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS SHALL BE PAID FOR UNDER THE ORIGINAL PLAN BID ITEMS.

PETROLEUM CONTAMINATED SOILS NOTES (CONT.)

MATERIAL SAMPLING

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH TEN (10) DAYS NOTICE PRIOR TO BEGINNING ANY EXCAVATION WITHIN THE AFOREMENTIONED LIMITS TO ARRANGE FOR THE NECESSARY SCREENING AND SEGREGATION OPERATIONS. ALL MATERIAL EXCAVATED BY THE CONTRACTOR BY DURING CONSTRUCTION AND WITHIN THE SPECIFIED LIMITS SHALL BE SCREENED, SEGREGATED AND TESTED BY AN INSPECTOR PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

MATERIAL EVALUATION

THE ENGINEER SHALL DETERMINE THE REGULATORY CLASSIFICATION OF THE SPECIFIED EXCAVATED MATERIALS BASED ON TEST RESULTS PROVIDED BY THE CONTRACTOR. THE EXCAVATED MATERIALS MAY BE CLASSIFIED INTO PCS OR INTO MATERIALS WHICH MAY BE USED AS BACKFILL OR OTHER PROJECT PURPOSES, PROVIDED IT MEETS THE APPROPRIATE ODOT SPECIFICATIONS.

ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS AND TO TRANSPORT THE MATERIALS TO A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE DISPOSAL FACILITY OR A PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (PCSRF) FOR PROPER DISPOSAL OR REMEDIATION. PRIOR TO DISPOSAL, THE CONTRACTOR SHALL CONTACT THE PROPOSED FACILITY TO DETERMINE THE ADDITIONAL TESTING REQUIRED FOR DISPOSAL OR REMEDIATION AT THAT FACILITY. THE PRICES FOR THESE TESTS ARE TO BE INCLUDED IN THE ABOVE PAY ITEM. THE WORK INVOLVED WITH THIS PAY ITEM INCLUDES HANDLING, STORAGE, TESTING (FOR DISPOSAL OR REMEDIATION) AND DISPOSAL OR REMEDIATION OF PCS. WHEN DIRECTED BY THE PROPOSED FACILITY, THE CONTRACTOR SHALL HAVE AN INDEPENDENT LABORATORY COLLECT SAMPLES AND TEST THE EXCAVATED OR STORED MATERIALS FOR PCS DISPOSAL OR REMEDIATION APPROVAL.

AS AN ALTERNATIVE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED MATERIALS FROM THE AFOREMENTIONED LIMITS INTO TRUCKS FOR SUBSEQUENT DISPOSAL APPROPRIATE FOR PETROLEUM CONTAMINATED SOILS AS DETAILED ABOVE.

TEMPORARY STORAGE OF CONTAMINATED SOILS

ALL MATERIALS EXCAVATED BY THE CONTRACTOR BETWEEN THESE LIMITS MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL IN A LINED AND COVERED ROLL OFF BOX. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH PRECIPITATION AND/OR SURFACE RUNOFF. AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY ALSO PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED CONTAMINATED MATERIAL INTO TRUCKS UNTIL A DETERMINATION OF PROPOSED USE IS MADE BY THE ENGINEER.

GENERAL NOTES

ALL TRANSPORT VEHICLES USED FOR THE MOVEMENT OF REGULATED SOILS AND/OR WATER SHALL MEET APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL MAINTAIN RECORDS (SUCH AS DAILY LOGS, LANDFILL TICKETS, MANIFESTS, ETC.) THAT DOCUMENT THE SOURCE, MOVEMENT AND DESTINATION OF EACH TRUCK LOAD OF CONTAMINATED MATERIAL. ONE COPY OF EACH OF THESE RECORDS SHALL BE SUBMITTED TO THE ENGINEER.

BASIS OF PAYMENT

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROPERLY EXCAVATE, STORE, TEST (FOR DISPOSAL), TRANSPORT AND DISPOSE OF CONTAMINATED MATERIALS, INCLUDING ANY REQUIRED APPROVALS OR FEES WITHIN THE SPECIFIED LIMITS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT BID PRICE PER TON AND PER GALLON. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED HEREIN. A CONVERSION FACTOR OF 1.5 TONS PER CUBIC YARD SHALL BE USED TO CONVERT CUBIC YARDS TO TONS:

690E65016 ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL 9 TON

DESIGN AGENCY



DESIGNER

GTF

REVIEWER

CAH 05/28/21

PROJECT ID

100829

SHEET

TOTAL

2 28

INSPECTION OF EXISTING STRUCTURAL STEEL

THE ENGINEER WILL VISUALLY INSPECT ALL SHEAR STUD CONNECTOR WELDS TO ENSURE WELDS ARE FREE FROM DEFECTS & CRACKS. IF NECESSARY, REMOVE ALL DECK SLAB HAUNCH FORMS IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY INTERFERE WITH THE ENGINEER'S INSPECTION. THE INSPECTION WILL NOT TAKE PLACE UNTIL THE TOP FLANGES ARE CLEANED ACCORDING TO C&MS 511.07, BUT IT WILL BE DONE BEFORE THE DECK SLAB REINFORCEMENT IS INSTALLED. THE DEPARTMENT WILL PAY FOR THE COST ASSOCIATED WITH THIS INSPECTION WITH ITEM 511 - SUPERSTRUCTURE CONCRETE. THE ENGINEER WILL REPORT ALL CRACKS FOUND TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG WITH SPECIFIC INFORMATION ON LOCATION OF THE CRACKS, LENGTH, AND DEPTH SO AN EVALUATION AND REPAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE

ITEM 510 - DOWEL HOLES, AS PER PLAN

INSTALL ADHESIVE ANCHORS ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PUBLISHED IN THE ICC-ES REPORTS LISTED BELOW.

WWW.ICC-ES.ORG/EVALUATION_REPORTS/

THE HOLES FOR THE ADHESIVE ANCHORS SHALL BE DRILLED WITH A HAMMER DRILL AND CARBIDE BIT. PRIOR TO THE INSTALLATION OF THE ANCHORS, THE HOLES SHALL BE CLEANED AND DRIED IN A MANNER CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS FOR DRY CONCRETE.

SELECT FROM ONE OF THE FOLLOWING APPROVED PRODUCTS:

HILTI HIT-HY 200 ADHESIVE ANCHORS
(ICC-ES REPORT ESR-3187)

DEWALT PURE110+ EPOXY ADHESIVE ANCHOR SYSTEM
(ICC-ES REPORT ESR-3298)

SIMPSON STRONG-TIE SET-3G EPOXY ADHESIVE ANCHORS
(ICC-ES REPORT ESR-4057)

ATC ULTRABOND HS-1CC ADHESIVE ANCHOR SYSTEM
(ICC-ES REPORT ESR-4094)

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF REINFORCING STEEL, AS PER PLAN

REPLACEMENT OF ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

ADDITIONAL QUANTITIES HAVE BEEN PROVIDED FOR DOWEL HOLES, IF NEEDED, TO EMBED THE REPLACEMENT REINFORCING INTO THE EXISTING STRUCTURE. PAYMENT FOR DOWEL HOLES SHALL BE MADE AT THE BID UNIT PRICE FOR ITEM 510 DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT.

PROPOSED WORK

- 1) REPLACE THE EXISTING COMPOSITE REINFORCED CONCRETE BRIDGE DECK WITH A NEW COMPOSITE REINFORCED CONCRETE DECK ON EXISTING BEAMS.
- 2) REPLACE DEEP BEAM BRIDGE GUARDRAIL WITH NEW DEEP BEAM BRIDGE GUARD RAIL PER SCD DBR-2-73 & DBR-3-11.
- 3) REMOVE EXISTING END CROSSFRAMES AND REPLACE WITH NEW END CROSSFRAMES.
- 4) REMOVE EXISTING ABUTMENT BACKWALLS DOWN TO THE APPROACH SLAB SEATS AND REBUILD THEM FOR THE INSTALLATION OF NEW STRIP SEAL EXPANSION JOINT.
- 5) REPLACE THE EXISTING ABUTMENT BEARINGS WITH NEW ELASTOMERIC BEARINGS.
- 6) REPLACE THE EXISTING APPROACH SLABS WITH NEW APPROACH SLABS.
- 7) CLEAN THE SURFACES OF THE SUBSTRUCTRE UNITS BY ABRASIVE BLASTING AND APPLY EPOXY-URETHANE SEALER TO THE , ABUTMENTS, WINGWALLS, AND PIERS.
- 8) PREPARE SURFACE OF AND FIELD PAINT EXISTING STRUCTURAL STEEL WITH THREE COAT OZEU PAINT SYSTEM. COLOR TO BE FEDERAL COLOR NUMBER 14277 (GREEN).

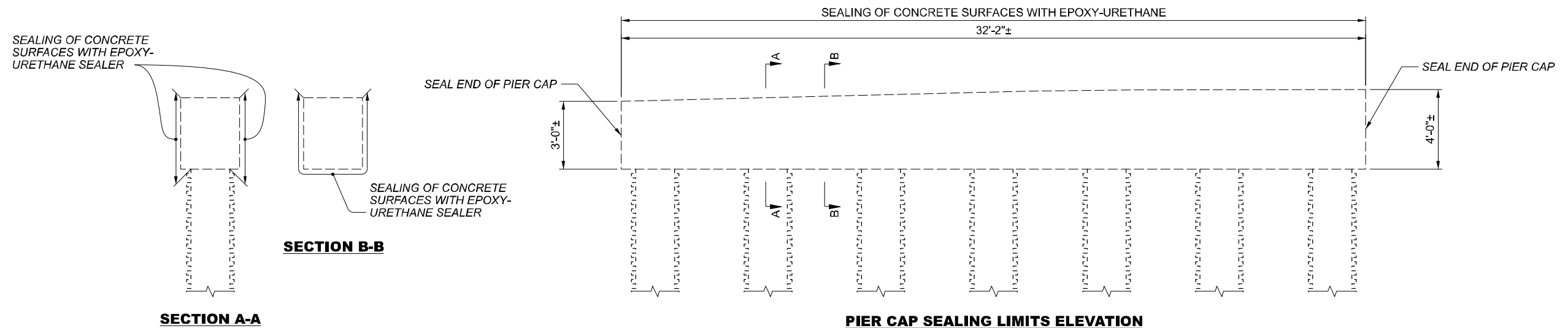
REMOVED NOTE AND ITEM FOR CLASS QC3 SUPERSTRUCTURE/SUBSTRUCTURE CONCRETE WITH MACROFIBERS. ITEM REVISED TO QC2 CONCRETE WITH QC/QA SUPERSTRUCTURE

DESIGN AGENCY



DESIGNER	GTF
REVIEWER	CAH 05/28/21
PROJECT ID	100829
SHEET	TOTAL
14	28

ESTIMATED QUANTITIES - STRUCTURE No.: BUT-732-0304 (01/STR/BR FUNDING SPLIT)							
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER. GEN.
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING			LUMP
509	10000	35977	LB	EPOXY COATED REINFORCING STEEL	765		35212
509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	100		
510	10001	59	EACH	DOWEL HOLES, AS PER PLAN	59		
511	34412	97	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE	4		93
512	10101	208	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	137	29	42
512	74000	50	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	50		
513	10200	1812	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			1812
513	20000	480	EACH	WELDED STUD SHEAR CONNECTORS			480
514	00050	5052	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			5052
514	00056	5066	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			5,066
514	00060	5066	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			5,066
514	00066	5066	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			5,066
514	00504	8	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			8
514	10000	5	EACH	FINAL INSPECTION REPAIR			5
516	11210	70	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			70
516	13600	4	SF	1" PREFORMED EXPANSION JOINT FILLER	4		
516	44300	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (T=4.073")	5		
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP
518	22300	195	FT	SPECIAL - STEEL DRIP STRIP			195
517	72200	206.25	FT	RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 1 STEEL POSTS AND ANCHOR BOLTS)			206.25
526	15011	95	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13"), AS PER PLAN			95
526	25011	89	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN			89
526	90010	90	FT	TYPE A INSTALLATION			90
846	00110	26	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM			26



BUT-732-3.04

MODEL: Sheet PAPER: 17x11 (in.) DATE: 9/22/2021 TIME: 8:56:52 AM USER: gfreeman
 p:\v\h\doc-pw-bentley.com\h\doc-pw-12\Documents\01 Active Projects\Bentley 08\Output\100829\40-Engineering\Structures\SFN_0903736-Sheets\100829_SFN_0903736_S0001.dgn

STRUCTURE ESTIMATED QUANTITIES
 BRIDGE No.: BUT-732-0304
 S.R. 732 OVER INDIAN CREEK

SFN	0903728
DESIGN AGENCY	
DESIGNER	GTF
CHECKER	
REVIEWER	CAH
DATE	05/28/21
PROJECT ID	100829
SUBSET	TOTAL
4	17
SHEET	TOTAL
15	28