

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

MATERIALS, CONSTRUCTION AND WORKMANSHIP IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2023 EDITION, THE PROJECT PLANS, AND SPECIAL PROVISIONS.

EXISTING PLANS

EXISTING CONSTRUCTION: ITD DWG. NO. 6404 & 6404-B

PLAN DIMENSIONS AND ELEVATIONS

DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.
PROVIDE 2" CONCRETE COVER MEASURING FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
PROVIDE REINFORCING STEEL SPLICE LENGTHS IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
DIMENSIONS SHOWN ARE BASED ON THE EXISTING PLANS AND DO NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED BRIDGE. WHERE DIMENSIONS OF THE PROPOSED WORK DEPEND ON EXISTING CONDITIONS, FIELD VERIFY AND ADJUST CONTROLLING DIMENSIONS TO FIT THE AS-CONSTRUCTED BRIDGE BEFORE ORDERING MATERIALS.
DO NOT SCALE DIMENSIONS FROM THE PROJECT PLANS.

CONSTRUCTION

ALL REINFORCING STEEL TO BE EPOXY COATED IS DESIGNATED BY AN (E) AFTER THE BAR MARK.
PROVIDE CONSTRUCTION JOINTS ONLY AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED.
PREVENT DEBRIS, RESULTING FROM CONTRACTOR OPERATIONS, FROM ENTERING THE WATERWAY.
DISPOSE OF REMOVED MATERIALS IN ACCORDANCE WITH ITD 2023 STANDARD SPECIFICATIONS SECTION 106.16.
LOCATE, RETAIN, AND PROTECT UTILITIES WITHIN THE VICINITY OF THE BRIDGE.

MATERIALS

CONCRETE: PILE REPAIR - CLASS 40A f'c = 4.00 ksi
METAL REINFORCEMENT: AASHTO M31 GRADE 60 fy = 60.00 ksi
TIMBER: SWAY BRACE - DOUGLAS FIR/LARCH GRADE NO. 1
FASTENERS: THREADED ROD - ASTM A307, GRADE A fu = 60.00 ksi
 ANCHOR BOLTS - ASTM F1554, GRADE 36
 THRU BOLTS - ASTM A307, GRADE A
 NUTS - ASTM A563, GRADE A HEX
 TIMBER MALLEABLE WASHERS - ASTM A47
OTHER: CARBON STEEL WIRE ROPE - ASTM A1023

INCIDENTAL ITEMS

WORK NECESSARY TO FULFILL THE CONTRACT THAT IS NOT MEASURED OR PAID FOR SEPARATELY.

ESTIMATED QUANTITIES

30" GALV. CMP OR HDPE PIPE	10.25 FT
1/2"X8" GALV. L-SHAPED ANCHOR BOLTS	48 EA
NO. 5 EPOXY COATED METAL REINFORCEMENT	78.75 FT
1/2" DIA. GALV. WIRE ROPE	150 FT
CONCRETE CLASS 40A SCH. NO. 1	1.50 CY
GALV. OR SS STEEL BANDING	6 EA
3"X8" TIMBER	10 FT
3/4"X1'-6" GALV. BOLTS W/ NUTS AND WASHERS	1 EA
3/4" DIA. GALV. THREADED ROD W/ NUTS AND WASHERS	1 EA
3/4" GALV. THREADED PRECAST INSERT	1 EA

CONSTRUCTION PROCEDURE

- CUT 30" GALV. CMP OR HDPE PIPE IN HALF, LONGITUDINALLY.
- CUT EXISTING SWAY BRACE CLOSE TO PILE T2 AND REMOVE THE CUT SECTION FROM PILE T1.
- INSTALL L-SHAPED ANCHOR BOLTS RADIALLY AT EIGHTH POINTS WITH HILTI HIT-RE 500 V3 EPOXY PER MANUFACTURER'S INSTRUCTIONS. EMBED ANCHOR BOLTS 3¾" INTO TIMBER PILE.
- ATTACH LONGITUDINAL REINFORCING TO ANCHOR BOLTS WITH WIRE TIES.
- BEGINNING AT THE TOP OF THE LONGITUDINAL BARS, SPIRALLY WRAP THE GALV. STEEL CABLE AROUND THE BARS AT A 6" PITCH, SECURING WITH WIRE TIES.
- PLACE THE TWO HALVES OF THE CMP OR HDPE PIPE (WITH SWWAY BRACE BOLT AND THREADED PRECAST INSERT ATTACHED) AROUND THE PILE WITH A FORMED BOTTOM SURFACE. SECURE THE TWO HALVES TOGETHER USING GALV. OR SS STEEL BANDING IN SUFFICIENT NUMBER TO PREVENT DISTORTION OF CMP OR HDPE PIPE DURING CONCRETE POUR.
- FILL THE CMP OR HDPE WITH CLASS 40A SCH. NO. 1 CONCRETE.
- FINISH THE CONCRETE TOP SURFACE WITH A SLOPE TO PREVENT STANDING WATER.
- AFTER CONCRETE HAS CURED INSTALL NEW SWAY BRACE WITH HOLE DRILLED IN TIMBER TO MATCH THREADED PRECAST INSERT LOCATION.

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	ADA COUNTY HIGHWAY DISTRICT		ENGLISH	GENERAL NOTES, QUANTITIES, & PROCEDURE	BRIDGE PLANS		
NO.	DATE	BY	DESCRIPTION	KEH						BRIDGE KEY NO. 12805		
△				DESIGN CHECKED	JCS	CADD FILE NAME BR12805_REPAIR.dgn		PROJECT NO. -----	ECKERT ROAD OVER RIDENBAUGH CANAL TIMBER PILE REPAIR	COUNTY	KEY NO.	
△				DETAILED	KEH					ADA	-----	
△				DWG. CHECKED	JCS	DATE: FEB 2025	BURGESS & NIPLE					
△				CORRECTIONS	KEH					-----	1 OF 2	
△												



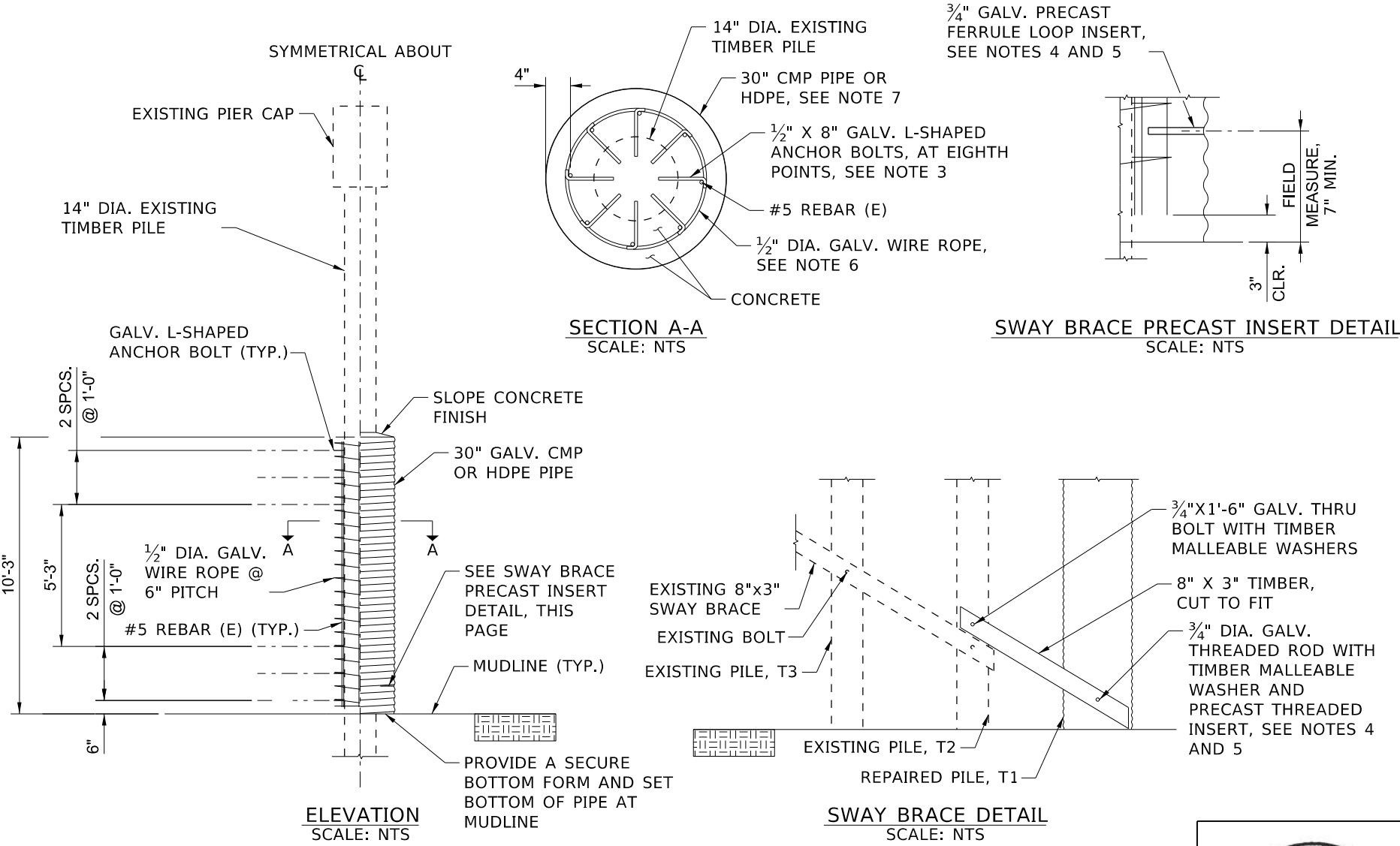
DECAY EXTENT
SCALE: NTS



PROPOSED REPAIR
SCALE: NTS

NOTES

1. PROVIDE HOT-DIP GALVANIZED ANCHOR BOLTS, THRU BOLTS, THREADED ROD, PRECAST INSERT, CMP PIPE, AND WIRE ROPE.
2. L-SHAPED OR J-SHAPED ANCHOR BOLTS ARE PERMITTED.
3. ANCHORING EPOXY FOR ANCHOR BOLTS SHALL BE HILTI HIT-RE 500 V3 OR APPROVED SIMILAR PRODUCT.
4. PRECAST INSERT SHALL BE DAYTON SUPERIOR GALV. F64 FERRULE LOOP INSERT W/ NC THREADS (PRODUCT CODE 43965) OR APPROVED SIMILAR.
5. FIELD MEASURE AND VERIFY INSERT HEIGHT FROM MUDLINE PRIOR TO DRILLING CMP OR HDPE PIPE. GALV. THREADED ROD WITH ANCHORING EPOXY IS AN ACCEPTABLE ALTERNATIVE TO THE PRECAST INSERT. ENSURE 6" EMBEDMENT IF THREADED ROD AND HILTI HIT-RE 500 V3 ANCHORING EPOXY OR APPROVED SIMILAR PRODUCT ARE UTILIZED. UTILIZE PACHOMETER OR OTHER NDT REBAR LOCATING TOOL/METHOD TO AVOID METAL REINFORCEMENT WHILE DRILLING CONCRETE.
6. EPOXY COATED NO. 4 REBAR HOOPS ARE AN ACCEPTABLE ALTERNATIVE TO THE WIRE ROPE. ENSURE 6" SPACING IS MAINTAINED IF REBAR HOOPS ARE UTILIZED. LAP HOOP ENDS TO CONFORM WITH AASHTO MIN. LAP LENGTH.
7. ORIENT CMP OR HDPE PIPE SO THAT THE LONGITUDINAL JOINTS ARE IN LINE WITH PILES.
8. TREAT TIMBER PER ITD 2023 STANDARD SPECIFICATIONS SECTION 710.09.
9. PERFORM ALL CUTTING AND DRILLING OF TIMBER MEMBERS PRIOR TO PRESERVATIVE TREATMENT OR APPLY TOUCH-UP PRESERVATIVE TREATMENT AFTER CUTTING AND DRILLING.



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△				DWG. CHECKED JCS	DATE: FEB 2025
△				CORRECTIONS KEH	

ADA COUNTY
HIGHWAY
DISTRICT

BURGESS & NIPLE

ENGLISH

PROJECT NO.

CONCRETE JACKET REPAIR

ECKERT ROAD OVER RIDENBAUGH CANAL
TIMBER PILE REPAIR

BRIDGE PLANS

BRIDGE KEY NO.
12805

COUNTY
ADA

KEY NO.

BRIDGE DWG. NO.

SHEET
2 OF 2

