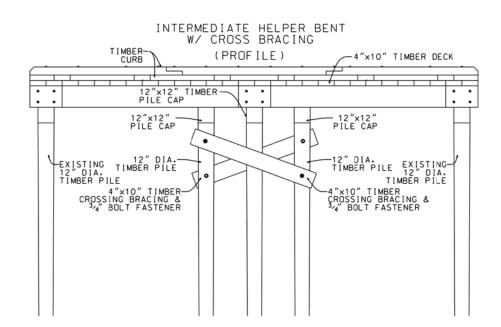


STRUCTURE NOTES:

FASTENERS SHOULD BE GALVANIZED NUT AND BOLTS AND REPLACEMENT TIMBER SIZE SHOULD BE SIMILAR, IF NOT, IDENTICAL IN SIZE.

TIMBER CROSS BRACING SHOULD UTILIZE BOLT, WASHERS, AND NUT FASTENERS TO ALLOW FOR THE DEVELOPMENT OF A PIN CONNECTION THAT IS SUBJECTED TO MINIMAL ECCENTRIC LOADING.

CONNECTIONS TO PILES SHOULD BE MADE IN A MANNER THE PREVENTS SPLITTING BETWEEN THE NEW AND EXISTING FASTENER HOLES.

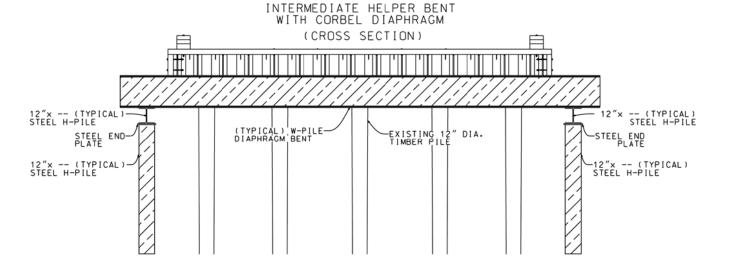


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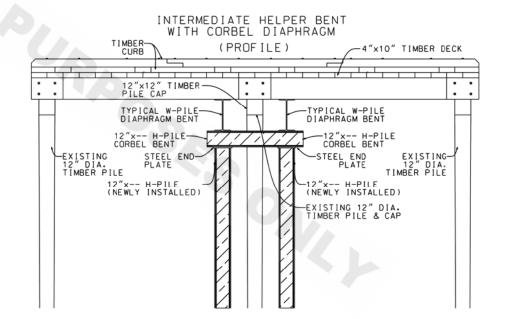
TIMBER CROSS BRACING SHOULD UTILIZE BOLT, WASHERS, AND NUT FASTENERS TO ALLOW FOR THE DEVELOPMENT OF A PIN CONNECTION THAT IS SUBJECTED TO MINIMAL ECCENTRIC LOADING.

ANY LAG BOLT FASTENERS SHOULD ONLY BE EMPLOYED DURING THE INSTALLATION PROCESS TO FACILITATE INSTALLATION OF NUT AND BOLT FASTENERS.



STRUCTURE NOTES:

REPLACEMENT DIAPHRAGM BENT SHOULD BE DESIGNED AS A FLEXURAL MEMBER WITH SPECIFC CONSIDERATION GIVEN TO DEFLECTIONS AND LOADING.



STRUCTURE NOTES:

STEEL SECTIONS UTILIZE WELDED CONNECTIONS BETWEEN ALL STEEL COMPONENTS ASSOCIATED WITH THIS REPAIR, ALTERNATIVELY BOTH FIELD AND SHOP WELDS MAY BE UTILIZED.

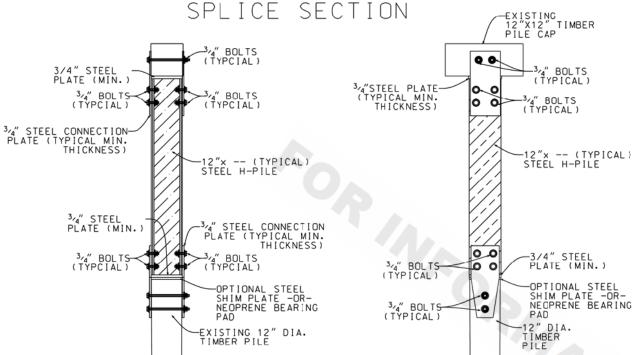
BOLTED CONNECTIONS MAY BE USED AND IS ENCOURAGED WHEN SHOP FABRICATION IS EMPLOYED FOR THE ASSEMBLY OF COMPLEX CONNECTIONS.



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STEEL PILE SECTIONS UTILIZE BOLTED CONNECTIONS BETWEEN ALL STEEL COMPONENTS ASSOCIATED WITH THIS REPAIR, ALTERNATIVELY BOTH FIELD AND SHOP HOLE DRILLING MAY BE UTILIZED.

BOLTED CONNECTIONS ARE ENCOURAGED WHEN SHOP FABRICATION IS EMPLOYED FOR THE ASSEMBLY OF COMPLEX CONNECTIONS. FASTENERS SHOULD BE GALVANIZED, AND REPLACEMENT TIMBER SIZE SHOULD BE SIMILAR, IF NOT, IDENTICAL IN SIZE. CONNECTIONS TO PILES SHOULD BE MADE IN A MANNER

TIMBER TO TIMBER PILE WITH STEEL SPLICE SECTION -EXISTING 12" DIA. TIMBER PILE EXISTING 12" DIA. TIMBER PILE 8" GALV -3,₄" BOLTS (TYPICAL) -3/4" BOLTS 0 (TYPICAL) 8" GALV. −³⁄₄″ BOLTS (TYPICAL) -³⁄₄″ BOLTS (TYPICAL) -PROPOSED 12" DIA. TIMBER PILE -PROPOSED 12" DIA. TIMBER PILE M MC-8"x8.5LBS MC-8"x8.5LBS-(TYPICAL) 3/4" BOLTS (TYPICAL) 3/4" BOLTS-(TYPCIAL) GALV. NAILS (TYPICAL) 3/4" BOLTS (TYPICAL) 3/4" BOLTS-(TYPCIAL) -EXISTING 12" DIA. TIMBER PILE -EXISTING 12" DIA. TIMBER PILE

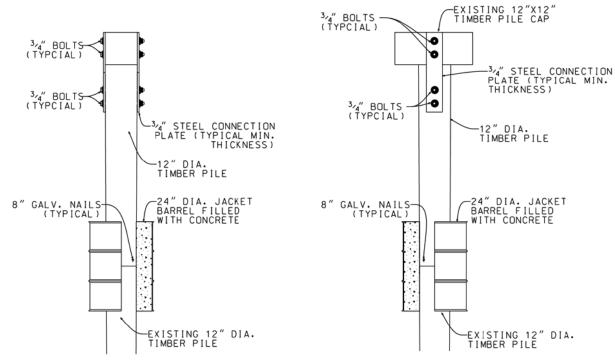
STRUCTURE NOTES:

STRUCTURE NOTES:

STEEL SPLICE CHANNELS, FASTENERS SHOULD BE GALVANIZED AND REPLACEMENT TIMBER SIZE SHOULD BE SIMILAR OR IDENTICAL IN SIZE.

IN THIS REPAIR DETAIL, NAILS PROVIDE ONLY TEMPORARY FASTENING FOR THE INSTALLATION OF THE SPLICE SECTIONS INTO NEW AND EXISTING TIMBER PILES.

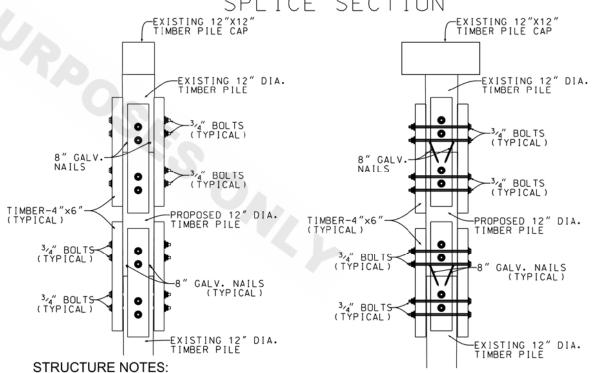
TIMBER TO TIMBER PILE WITH CONCRETE FILLED SPLICE SECTION



STRUCTURE NOTES:

TIMBER PILE SPLICING UTILIZING BARREL CONTAINMENT OF CONCRETE AND SHOULD HAVE HOLES CENTERED FOR THE PLACEMENT OF THE TIMBER PILE. TIMBER END SECTIONS SHOULD BE CENTERED IN THE BARREL ON ALL AXES. WELDED WIRE FABRIC SHOULD BE CONSIDERED FOR SPLICES AT MUDLINE OR PILES SUBJECTED TO MEAN WATER SURFACE ELEVATIONS COINCIDING WITH THE BARREL SPLICE SECTION.

TIMBER TO TIMBER PILE SPLICE SECTION



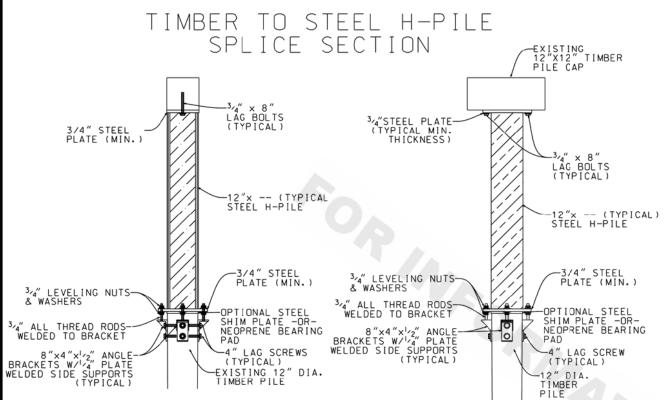
FASTENERS SHOULD BE GALVANIZED, AND CONNECTIONS TO PILES SHOULD BE MADE IN A MANNER THAT

IN THIS REPAIR DETAIL, NAILS PROVIDE ONLY TEMPORARY FASTENING FOR THE INSTALLATION OF THE SPLICE SECTIONS INTO NEW AND EXISTING TIMBER PILES.



REPAIR DETAILS /HELPER BRACING

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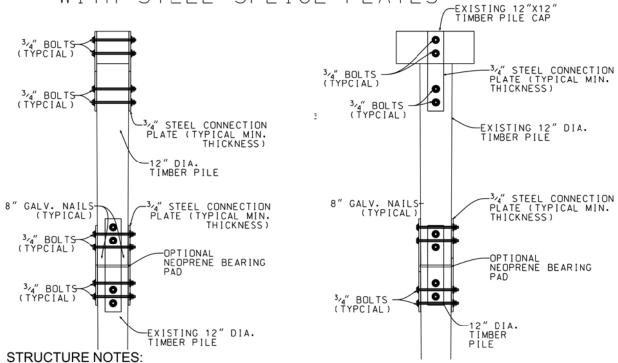


STRUCTURE NOTES:

STEEL PILE SECTIONS UTILIZE WELDED CONNECTIONS BETWEEN ALL STEEL COMPONENTS ASSOCIATED WITH THIS REPAIR, ALTERNATIVELY BOTH FIELD AND SHOP WELDS MAY BE UTILIZED.

BOLTED CONNECTIONS MAY BE USED AND IS ENCOURAGED WHEN SHOP FABRICATION IS EMPLOYED FOR THE ASSEMBLY OF COMPLEX CONNECTIONS. FASTENERS SHOULD BE GALVANIZED, AND REPLACEMENT TIMBER SIZE SHOULD BE SIMILAR, IF NOT, IDENTICAL IN SIZE. CONNECTIONS TO PILES SHOULD BE MADE IN A MANNER THAT PREVENTS SPLITTING

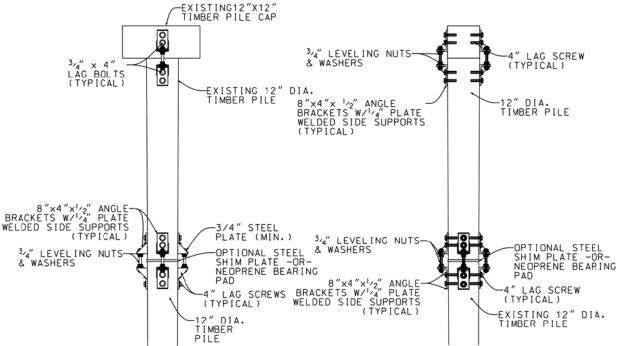
TIMBER TO TIMBER PILE WITH STEEL SPLICE PLATES



STEEL SPLICE CHANNELS, FASTENERS SHOULD BE GALVANIZED AND REPLACEMENT TIMBER SIZE SHOULD BE SIMILAR OR IDENTICAL IN SIZE.

IN THIS REPAIR DETAIL, NAILS PROVIDE ONLY TEMPORARY FASTENING FOR THE INSTALLATION OF THE SPLICE SECTIONS INTO NEW AND EXISTING TIMBER PILES.

TIMBER TO TIMBER PILE WITH STEEL BRACKET SPLICE SECTION

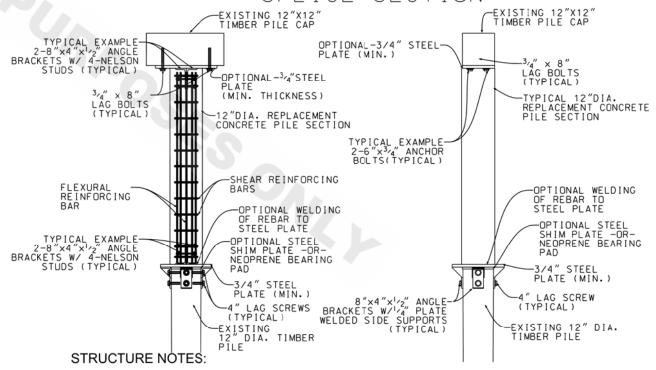


STRUCTURE NOTES:

BOLTED CONNECTIONS MAY BE USED AND IS ENCOURAGED WHEN SHOP FABRICATION IS EMPLOYED FOR THE ASSEMBLY OF COMPLEX CONNECTIONS.

FASTENERS SHOULD BE GALVANIZED, AND REPLACEMENT TIMBER SIZE SHOULD BE SIMILAR OR IDENTICAL IN SIZE. CONNECTIONS TO PILES SHOULD BE MADE IN A MANNER THAT PREVENTS SPLITTING

TIMBER TO TIMBER PILE SPLICE SECTION



CONCRETE REPLACEMENT SECTIONS WITH A REINFORCING CAGE MAY UTILIZE LEAVE-IN-PLACE OR REMOVABLE FORMWORK. ADDITIONALLY THE USE OF NELSON STUDS OR EQUIVALENT IS ENCOURAGED TO PROVIDE A STURDY INTERFACE BETWEEN CAP AND PILE.

FASTENERS SHOULD BE GALVANIZED, AND CONNECTIONS TO PILES SHOULD BE MADE IN A MANNER THAT PREVENTS SPLITTING. PROVIDE ADEQUATE CONCRETE COVER OF 2" (MIN.) FOR REINFORCEMENT.



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