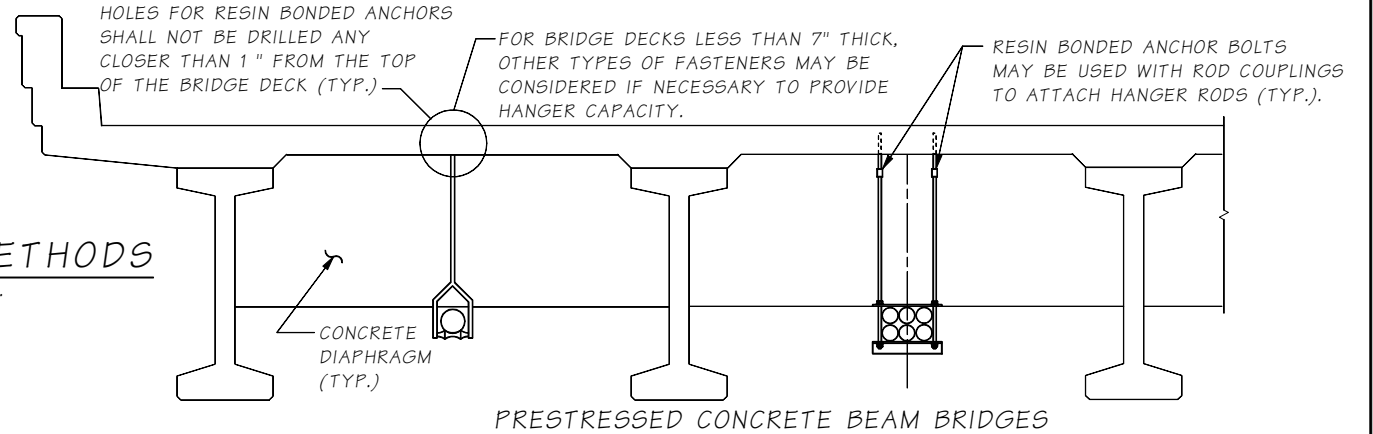


THE DETAILS SHOWN HERE ARE PRESENTED AS A GUIDE ONLY. EACH PROPOSED UTILITY INSTALLATION SHALL BE SUBMITTED TO THE DEPARTMENT OF TRANSPORTATION FOR APPROVAL ON AN INDIVIDUAL BASIS. COMPLIANCE WITH THESE DETAILS DOES NOT ASSURE APPROVAL, NOR DOES VARIANCE FROM THESE DETAILS, FOR REASONABLE CAUSE, OR USE OF DETAILS NOT SHOWN HERE NECESSARILY EXCLUDE APPROVAL

SEE "GENERAL NOTES AND DESIGN CRITERIA"

ACCEPTABLE UTILITY SUPPORT METHODS

ALL HANGERS SHALL HAVE A MEANS OF VERTICAL ADJUSTMENTS.



MAY BE USED ONLY ON SIMPLE SPAN BRIDGES. UTILITY SHALL BE CARRIED BELOW DIAPHRAGMS. CORE DRILLING THROUGH THE END DIAPHRAGM OR ABUTMENT WALL MAY BE ALLOWED ON A CASE BY CASE BASIS. FOR CONTINUOUS SPAN BRIDGES ATTACHMENTS OF THIS NATURE ARE GENERALLY NOT ALLOWED BECAUSE OF INTERFERENCE WITH THE PIER DIAPHRAGMS OR CROSSBEAMS WHICH ARE CONSIDERED MAIN STRUCTURAL MEMBERS.

SUBMITTAL REQUIREMENTS FOR DISTRICT

A MINIMUM OF 5 PRINTS OR A REPRODUCIBLE DRAWING OF THE ATTACHMENT DETAILS SHALL BE SUBMITTED WITH THE FRANCHISE APPLICATION. ATTACHMENT DETAIL DRAWINGS SHALL INCLUDE A BRIDGE PLAN AND ELEVATION SHOWING THE LOCATION OF THE UTILITY, SUPPORTS AND EXPANSION DEVICES, AND SHALL ALSO INCLUDE DETAILS OF ATTACHMENTS, A TYPICAL CROSS SECTION AND UTILITY ROUTING AT THE BRIDGE ABUTMENTS OR PIER FOOTINGS. BRAND NAMES FOR HANGERS AND ANCHORS SHALL ALSO BE INCLUDED.

NOTE:

DOT FORM 224-047, GENERAL NOTES AND DESIGN CRITERIA. (EXAMPLE 1-18 OF THE UTILITIES MANUAL), IS TO BE PART OF, AND INCLUDED BY REFERENCE, IN ANY PERMIT OR FRANCHISE CONTAINING A BRIDGE ATTACHMENT. REVISIONS TO THIS GUIDE FOR UTILITY INSTALLATIONS MUST BE COORDINATED WITH BOTH THE BRIDGE OFFICE AND HQ UTILITIES AND SHALL BE APPROVED BY THE BRIDGE RETROFIT ENGINEER. THE REVISION NOTE, DATE AND ENGINEER'S INITIALS ARE ENTERED INTO THE BORDER REVISION BLOCK BY THE CADD OPERATOR AFTER APPROVAL. A FULL SIZE PAPER PRINT IS THEN SENT TO "PUBLICATIONS" THROUGH THE HQ UTILITIES ENGINEER FOR REDUCTION TO 11"X17" AND DISTRIBUTION TO ALL BRIDGE DESIGN MANUAL AND UTILITY MANUAL HOLDERS. CROSS REFERENCE: BRIDGE DESIGN MANUAL - SECTION 8, APPENDIX A (YELLOW COPIES), UTILITIES MANUAL - CHAPTER 1, EXAMPLES SECTION (WHITE COPIES)

Bridge Design Engr.	M:\STANDARDS\Utilities\Utility Hanger Details.man	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By		JOB NUMBER				
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

BRIDGE AND STRUCTURES OFFICE



UTILITY INSTALLATION GUIDELINE DETAILS FOR EXISTING BRIDGES

UTILITY HANGER DETAILS

10.9-A1-1

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JOB NO.

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Tue Jul 15 14:07:04 2008