

★ FOR CULVERT WINGS:

WITH WING WALL THICKNESS ≥ 8" USE:
ADHESIVE ANCHORS ½" - INCH.
EMBED 5" IN CONCRETE.
SEE DETAIL "A".

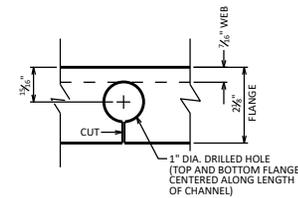
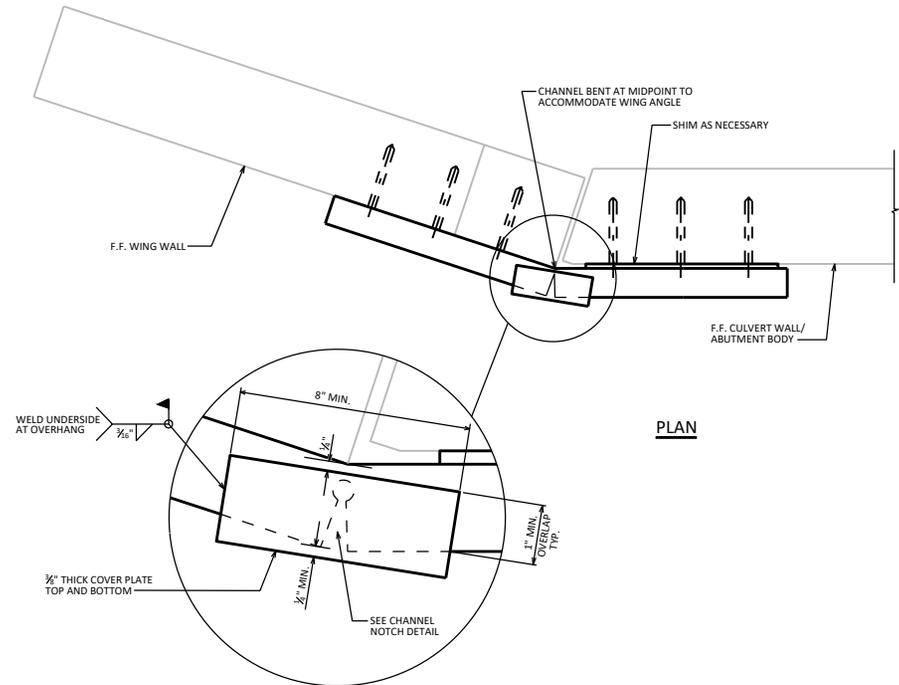
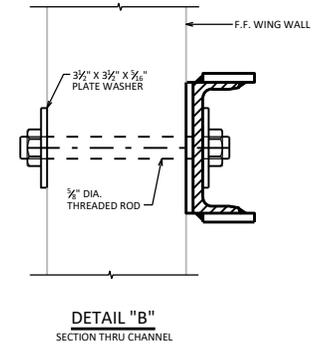
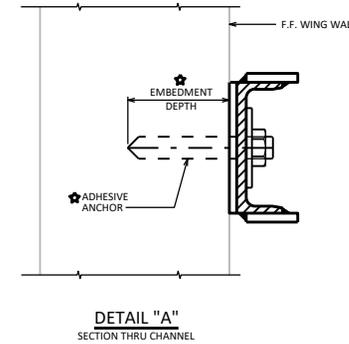
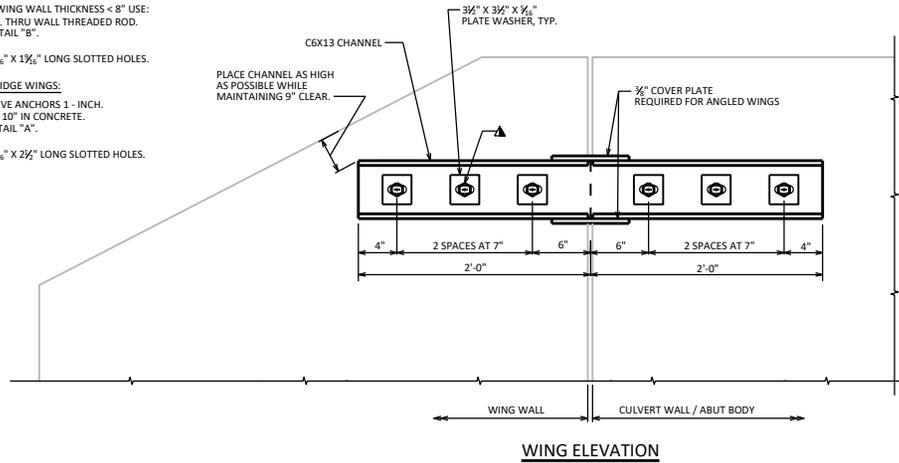
WITH WING WALL THICKNESS < 8" USE:
½" DIA. THRU WALL THREADED ROD.
SEE DETAIL "B".

USE ½" x 1½" LONG SLOTTED HOLES.

FOR BRIDGE WINGS:

ADHESIVE ANCHORS 1 - INCH.
EMBED 10" IN CONCRETE.
SEE DETAIL "A".

USE 1½" x 2½" LONG SLOTTED HOLES.



NOTES

WING STRAPPING DETAIL FOR THE PURPOSE OF MITIGATING INWARD WING TIPPING, AS AN ALTERNATIVE TO THE PREFERRED METHOD OF WING REPLACEMENT.

BID ITEM SHALL BE "STRAPPING B-XX-XXX" WHICH INCLUDES ALL ITEMS SHOWN.

WISDOT REGIONAL BRIDGE MAINTENANCE ENGINEER TO APPROVE USE OF DETAIL PRIOR TO INSTALLATION.

ALL PROVIDED STEEL MATERIAL SHALL CONFORM TO ASTM A36.

ALL STRUCTURAL STEEL SHOWN SHALL BE GALVANIZED. THREADED RODS, MASONRY ANCHORS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C.

CUTTING AND DRILLING OF CHANNEL SHALL BE DONE IN FABRICATION SHOP, PRIOR TO GALVANIZING.

IF WELDING COVER PLATE IN FIELD, PRIOR TO WELDING, REMOVE GALVANIZING FROM AREA TO BE WELDED. TOUCH UP WITH PAINT ALL AREAS LACKING GALVANIZING WHEN COMPLETE.

CAULK AROUND PERIMETER OF CHANNEL AND FILL PORTION OF HOLE AROUND ANCHOR BOLT AND SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

CHANNEL NOTCH DETAIL
FOR USE WITH ANGLED WINGS ONLY

WING STRAPPING	
 BUREAU OF STRUCTURES	
APPROVED: <i>Laura Shadewald</i>	DATE: 7-18