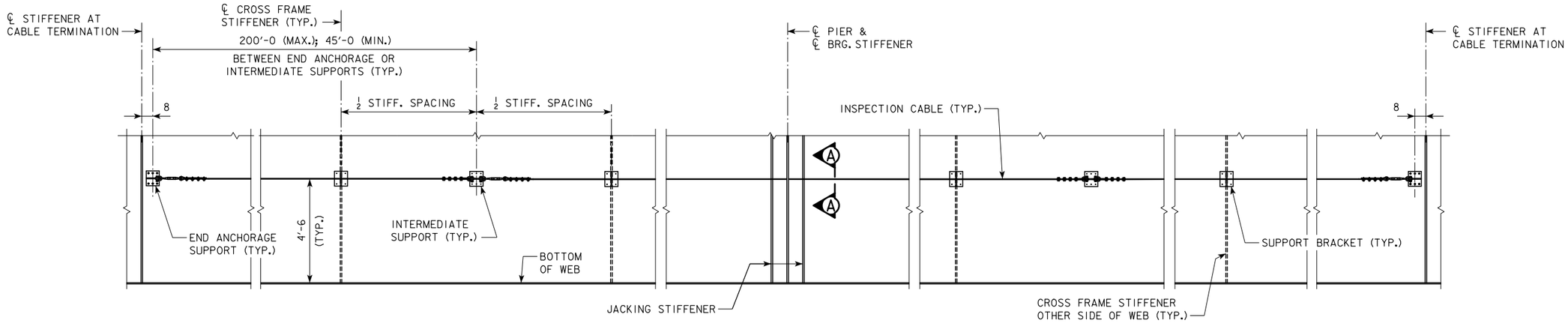
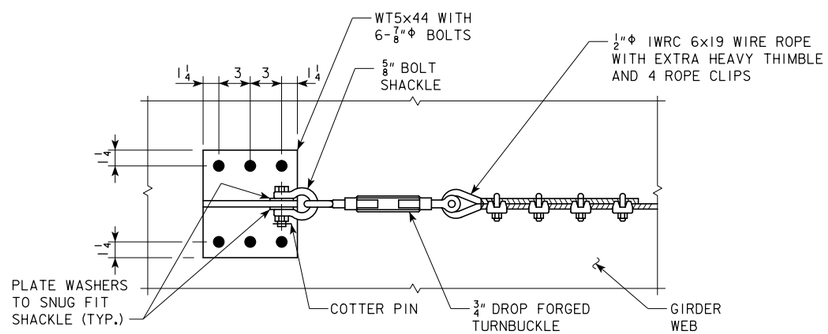
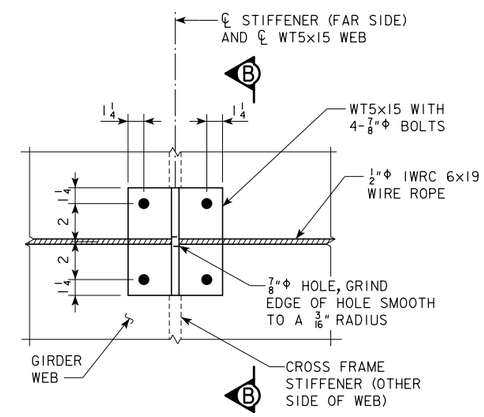


TYPICAL CABLE ELEVATION

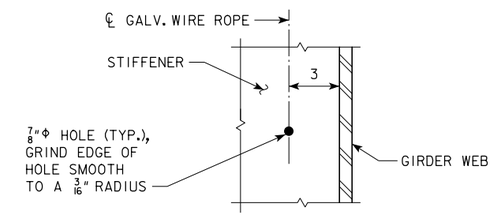
DESIGN STRENGTH:
THE INSPECTION CABLE SYSTEM IS DESIGNED FOR A POINT LOAD OF 10,000 POUNDS BETWEEN END ANCHORAGE SUPPORTS.



TYPICAL END ANCHORAGE SUPPORT



TYPICAL SUPPORT BRACKET DETAIL



SECTION A-A

INSPECTION CABLE NOTES:

FOR INSPECTION CABLE LOCATION AND LIMITS, SEE THE DIGITAL FILES.

WIRE ROPE SHALL COMPLY WITH FEDERAL SPECIFICATION RR-W-410F.

WIRE ROPE SHALL BE ½"Φ IWRC GALVANIZED 6 X 19 WITH A MINIMUM NOMINAL LOAD CAPACITY OF 11.1 TONS.

WIRE ROPE CLIPS SHALL BE CAPABLE OF TRANSFERRING THE FULL CAPACITY OF THE WIRE ROPE. CLIPS SHALL BE INSTALLED IN ACCORDANCE WITH THE CLIP MANUFACTURERS RECOMMENDATIONS.

THE WIRE ROPE SHALL BE TENSIONED AT THE ENDS OF EACH SECTION TO 200 LBS. TO REMOVE SAG. THE END ANCHORAGE CLIPS SHALL BE TIGHTENED PRIOR TO TIGHTENING INTERIOR SUPPORT CLIPS. DO NOT OVER TENSION WIRE ROPE.

CABLE CLIPS SHALL COMPLY WITH FEDERAL SPECIFICATION FF-C-450D, TYPE 1, CLASS 1.

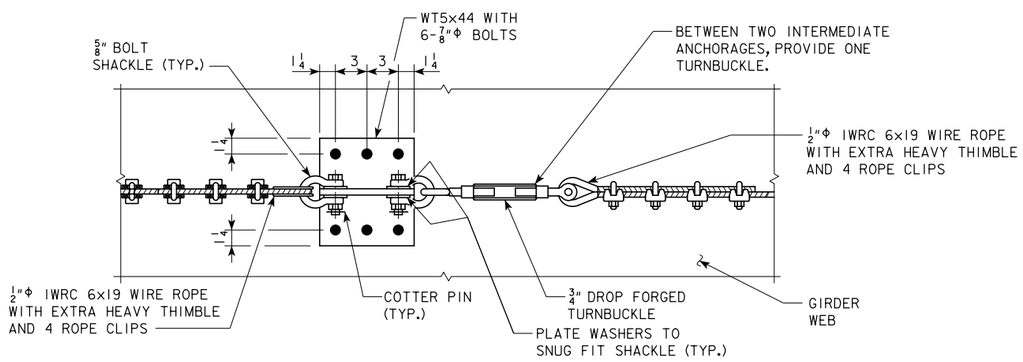
BOLT SHACKLE SHALL COMPLY WITH FEDERAL SPECIFICATION RR-C-271F TYPE IVA, GRADE A, CLASS 3, GALVANIZED.

EXTRA HEAVY THIMBLE, WIRE ROPE CLIPS AND DROP FORGED TURNBUCKLE SHALL BE GALVANIZED.

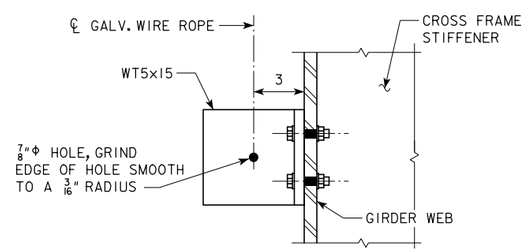
WT BRACKETS SHALL BE ASTM A709 GRADE 50W.

THE COST OF FURNISHING AND INSTALLING THE INSPECTION CABLE SYSTEM SHALL BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL STEEL".

SEE DIGITAL FILE FOR START AND END POINTS OF INSPECTION CABLE AT EACH GIRDER.



TYPICAL INTERMEDIATE SUPPORT DETAIL



SECTION B-B

DESIGN FOR 0° SKEW ON 3,300' RADIUS CURVE

566'-6 X VARIES CONTINUOUS WELDED GIRDER BRIDGE

171'-0, 226'-0, 169'-6 SPANS

INSPECTION CABLE DETAILS

STA. 2543+48.27 (℄ RAMP B) APRIL 2018

JOHNSON COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 20 OF 31 FILE NO. 30864 DESIGN NO. 420