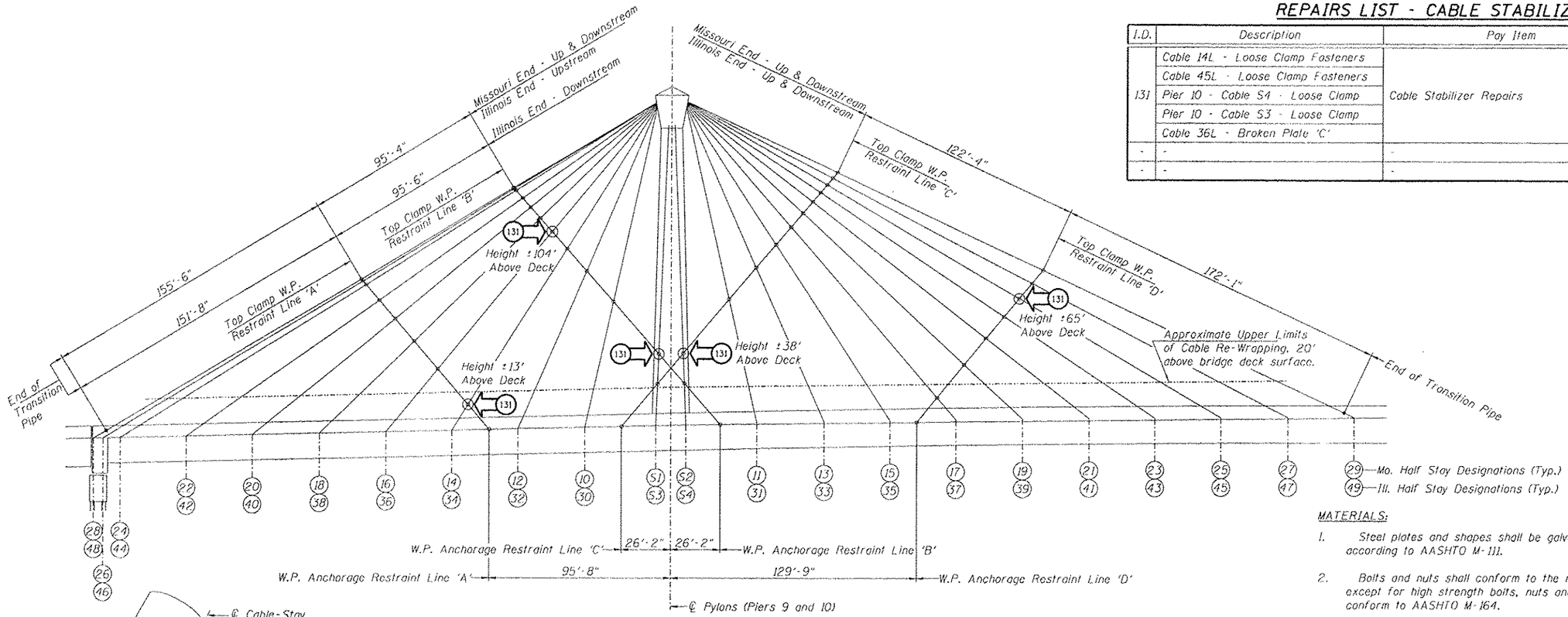
REPAIRS LIST - CABLE STABILIZERS

I.D.	Description	Pay Item	Units	Quantity
131	Cable 14L - Loose Clamp Fasteners	Cable Stabilizer Repairs	L Sum	1
	Cable 45L - Loose Clamp Fasteners			
	Pier 10 - Cable S4 - Loose Clamp			
	Pier 10 - Cable S3 - Loose Clamp			
	Cable 36L - Broken Plate 'C'			
-	-	-	-	-
-	-	-	-	-



Repair I.D.

OTHER ITEMS

PARTIAL ELEVATION

(Missouri Pylon Shown - Looking Upstream)
(Illinois Pylon Shown - Looking Downstream)

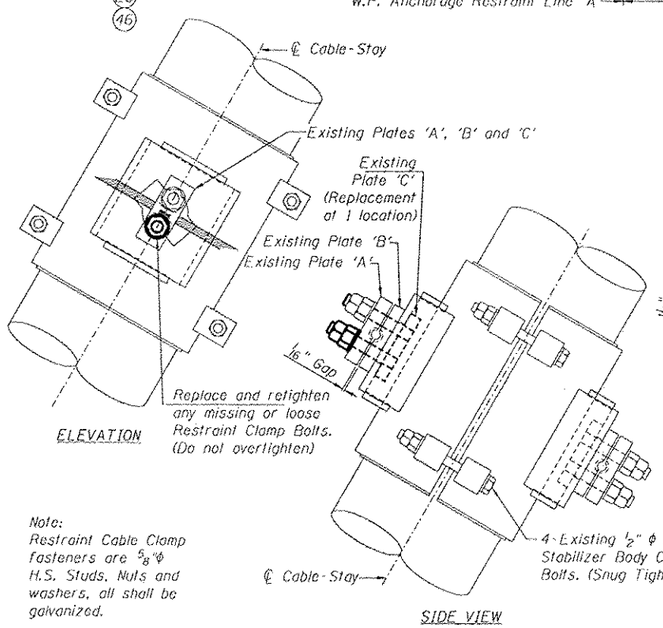
Note:
Cable numbers shown in the repair list, have been appended with either an 'L' or 'R' for Left or Right of the ℄, with the exception of Cables S1 thru S4.
The lower Stabilizer Clamps on Restraint Lines 'A' and 'D' at Cables 14L, 14R, 17L, 17R, 34L, 34R, 37L and 37R must be removed during Cable Wrapping to facilitate a continuous run of wrapping material from start to finish. If the Wire Rope Restraint is loosened or unfastened, see adjacent notes below for Reinstallation.
Cost for removal and reinstallation these Stabilizer Clamps shall be included in the cost of "Cable Wrapping".

MATERIALS:

1. Steel plates and shapes shall be galvanized, after fabrication, according to AASHTO M-111.
2. Bolts and nuts shall conform to the requirements of ASTM A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.
3. All bolts, nuts and washers shall be galvanized according to AASHTO M-232.

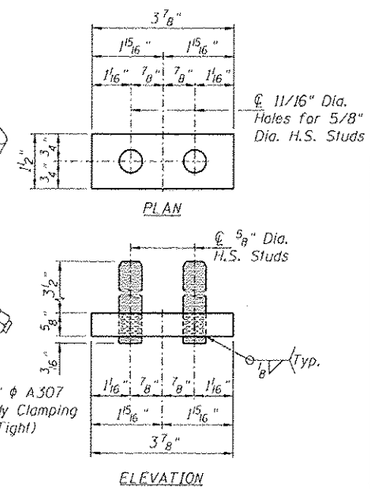
RESTRAINT CABLE RE-INSTALLATION PROCEDURE:

1. Realign and resecure any loose or previously removed steel stabilizer clamps to affected cable stays using existing ½" diameter A307 bolts. It may be necessary to rotate the clamp about the centerline of the cable stay in order to obtain the correct alignment.
2. Using a calibrated torque wrench tighten the four bolts which secure each clamp equally by alternating from one bolt to the other until reaching the installation torque on all four bolts. The installation torque shall be that required to tighten a test bolt to a tension of 1550 lbs. The average of three test values shall determine the installation torque.
3. Resecure wire ropes commencing at the highest loose or loosened clamp and proceeding downward to the lowest clamp. The wire rope should be stretched tight between the cable stays without disturbing their natural locations. Tighten nuts evenly alternating from one nut to the other. Do not over tighten to the point of damaging the wire rope.
4. After reconnecting existing turnbuckles to existing tiedowns, retighten the wire rope turnbuckles, making certain to not move the cable stays from thier natural locations during the final tightening operation. Tighten and clamp both wire ropes of the cable restraint system simultaneously.
5. If any Tedlar Tape is damaged during the repairs to the Cable Stabilizers or reinstallation of the Stabilizers due to cable wrapping, it shall be repaired at the Contractors expense in a manner approved by the Engineer.

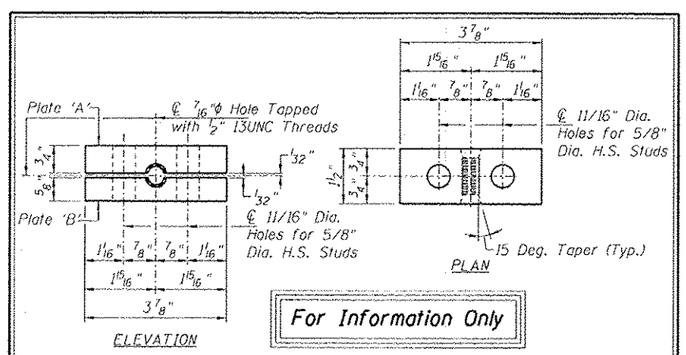


Note:
Restraint Cable Clamp fasteners are ⅝"ϕ H.S. Studs, Nuts and washers, all shall be galvanized.

DETAILS - TYPICAL EXISTING STABILIZER CLAMP



REPLACEMENT PLATE 'C' - DETAILS



For Information Only

DETAILS - EXISTING PLATES 'A' and 'B'

DESIGNED -	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED -	ENGINEER OF STRUCTURAL SERVICES		
DRAWN Rod	PASSED		
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES		

REPAIRS TO - CSS - CABLE STABILIZERS
STRUCTURE NO. 060-0255
SHEET NO. 15 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	25
		CONTRACT NO. 76E73		
		ILLINOIS FED. AID PROJECT		

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