



LOCATION KEY

New Bolt
Special Shackle
Closed Socket

STAY CONNECTION
120 FT FROM E. OF TOWER

STAY CONNECTION
176 FT FROM E. OF TOWER

STAY CONNECTION
232 FT FROM E. OF TOWER

CABLE BAND CONNECTION
FOR STAY CABLE

WELD SHACKLE TO CABLE
BAND TO LINE UP WITH CABLE
STAY UNDER MAXIMUM TENSION

1/2" NICKEL STEEL BOLT MIN.
TENSILE STRENGTH 100,000 LBS.

THIS DIMENSION ON SHACKLE TO BE
SLIGHTLY UNDERSIZE SO THAT
SHACKLE WILL PINCH CABLE BAND
WHEN INSTALLED

SCALE 3" = 1'-0"

BRACE AND CONNECTIONS
FOR THIS SIDE SIMILAR TO
THAT DETAIL FOR OTHER
SIDE

SECTION A-A

BRACES AT E MAIN SPAN

SCALE 1" = 1'

NOTES:-

THE 12" DIAMETER ROPES SHALL HAVE A GROSS METALLIC AREA OF NOT
LESS THAN 0.72 SQ. IN. A MINIMUM ULTIMATE STRENGTH OF 124,000 LBS. AND A
MINIMUM YIELD POINT OF 50,000 LBS. PER SQ. IN. THESE ROPES SHALL BE
THE STRANDS SHALL BE MEASURED TO THE LENGTHS GIVEN ON THIS DRAWING
UNDER A TENSION OF 100,000 LBS. AND THEN CUT AND SOCKETED. THE
AND THEN CUT AND SOCKETED.

THE NEW BOLTS TO BE PLACED IN CABLE BANDS SHALL BE OF NICKEL ALLOY WITH A
MINIMUM ULTIMATE STRENGTH OF 100,000 LBS. PER SQ. IN. AND A MINIMUM YIELD POINT
OF 50,000 LBS. PER SQ. IN. THESE BOLTS SHALL NOT BE HEAT TREATED. THEY SHALL
BE TIGHTENED TO A TENSION OF NOT LESS THAN 80,000 LBS. PER BOLT.

REQUIRED:-

- 4 - ROPES STAYS - 'A' WITH CONNECTIONS
- 4 - ROPES STAYS - 'B' WITH CONNECTIONS
- 4 - ROPES STAYS - 'C' WITH CONNECTIONS
- 4 BRACES AND CONNECTIONS

RIVETS 7/8"

NOTE 2:-

LENGTHS OF STAYS SHOWN ABOVE ARE ON SHIP DWGS
DUE TO ERROR IN FABRICATION WORK CUT
5" TOO LONG. THEY WERE LATER CUT AND
RE-SOCKETED. SHORTENING EACH AS FOLLOWS:

STAY A - 12 1/2"
STAY B - 13 1/2"
STAY C - 14 1/2"

10-7-39 REVISED AS BUILT

ROBINSON AND STEINMAN
ENGINEERS
NEW YORK, N.Y.

PWA PROJECT NO. ME 1010D
DEER ISLE - SEDGWICK BRIDGE DISTRICT
BRIDGE OVER EGGMOGGIN REACH
FROM LITTLE DEER ISLE TO SEDGWICK
HANCOCK COUNTY, MAINE

CABLE STAYS
FOR MAIN SPAN
SCALES AS NOTED

DRAWING NUMBER
PS 3310-372

124

