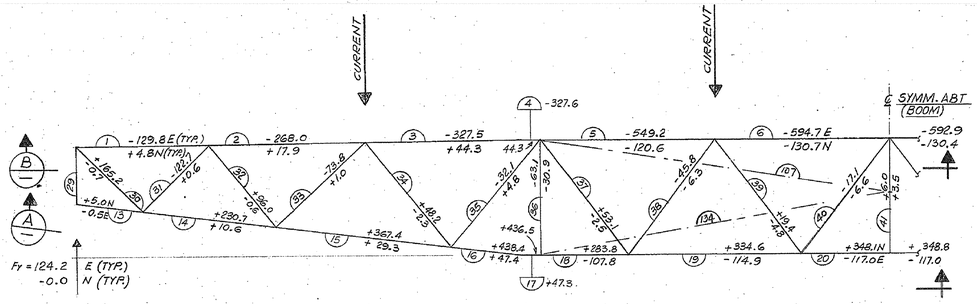
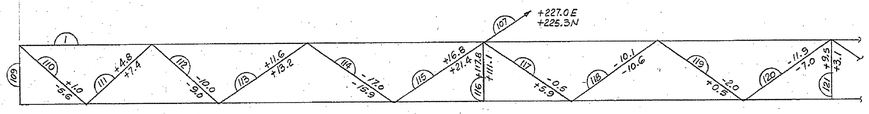
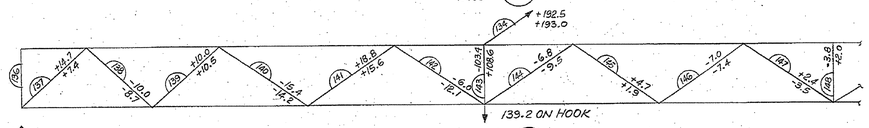


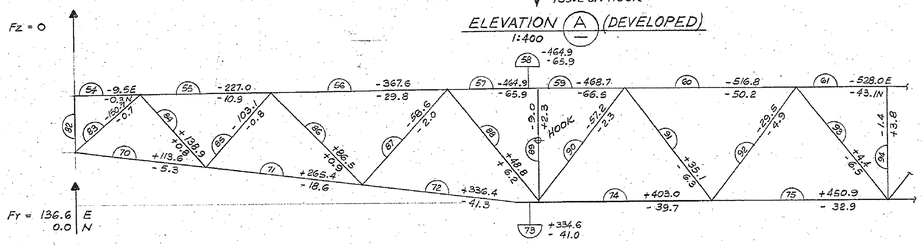
TOP OF BOOM
1:400



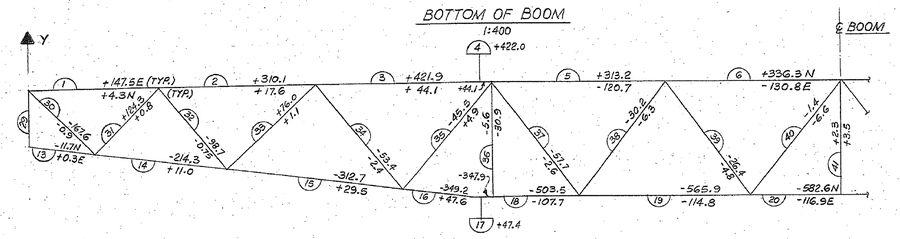
ELEVATION (B) (DEVELOPED)
1:400



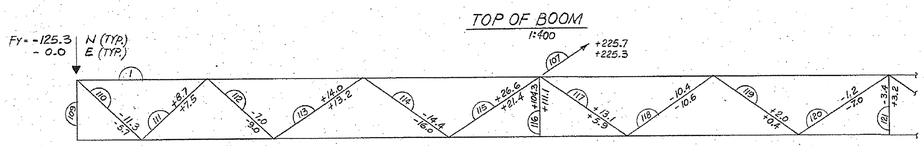
ELEVATION (A) (DEVELOPED)
1:400



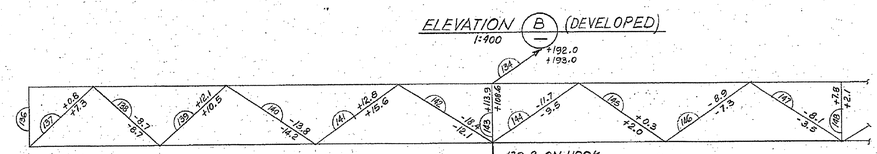
BOTTOM OF BOOM
1:400



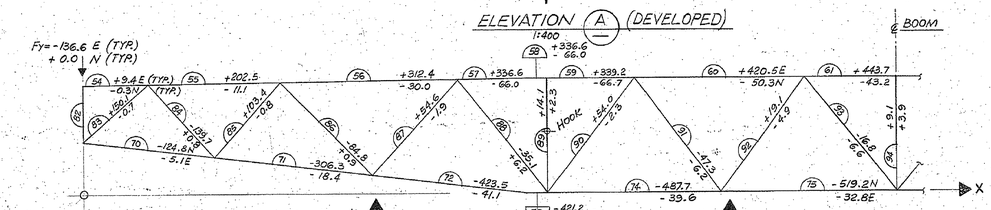
TOP OF BOOM
1:400



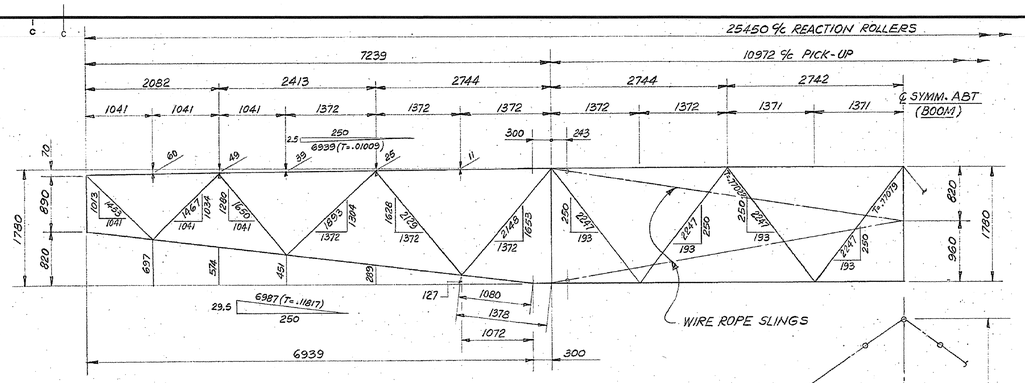
ELEVATION (B) (DEVELOPED)
1:400



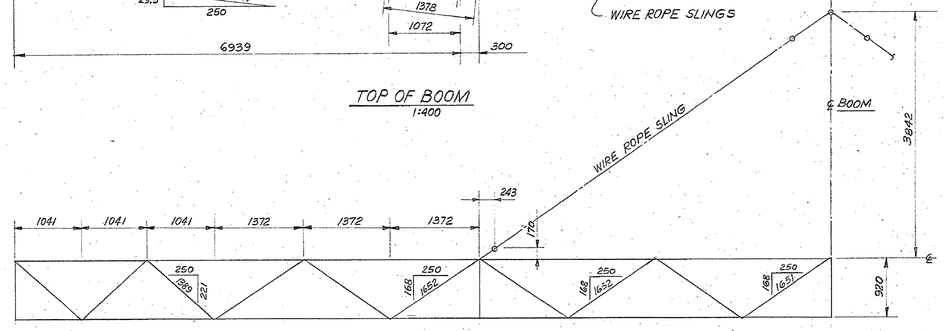
ELEVATION (A) (DEVELOPED)
1:400



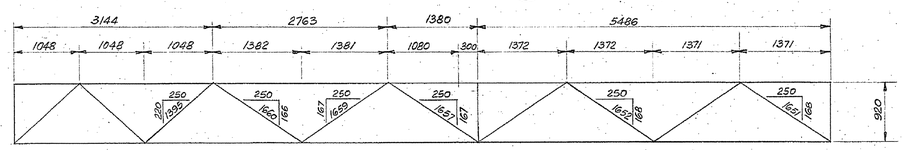
BOTTOM OF BOOM
1:400



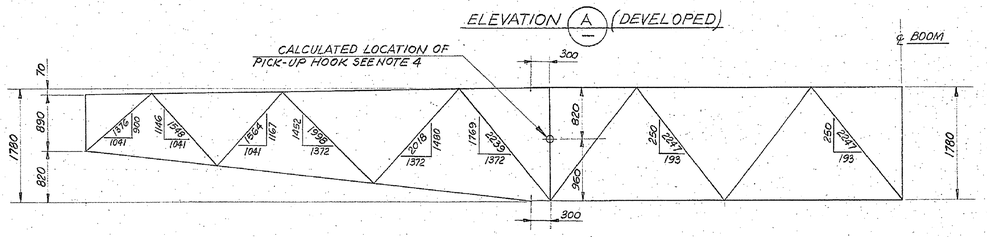
TOP OF BOOM
1:400



ELEVATION (B) (DEVELOPED)
1:400



ELEVATION (A) (DEVELOPED)



BOTTOM OF BOOM
1:400

NOTES:

1. ALL FORCES ARE FACTORED AND IN KILONEWTONS
   COMPRESSION FORCE (-) NEGATIVE
   TENSION FORCE (+) POSITIVE

2. NORMAL OPERATION THUS "N" CONSISTS OF
   (MASS OF BOOM) × 1.1 + (MASS OF LOG "A") × 1.4
   BEING LIFTED IN AIR

3. EMERGENCY OPERATION THUS "E" CONSISTS OF
   (MASS OF BOOM) × 1.1 + (MASS OF LOG "A") × 1.4
   + (FORCE OF CURRENT APPLIED TO THE EXPOSED AREA OF ALL MEMBERS OF BOOM EXCEPT THOSE SHELTERED WITHIN THE GAINS) × 1.4 . FURTHER IT IS ASSUMED THAT THE LOG WILL TRANSMIT ITS OWN CURRENT FORCES TO THE GAINS AND NOT TO THE BOOM.

   MASS OF BOOM = 78.6 kN = 8,035. Kg
   MASS OF LOG "A" = 278.4 kN = 28,380. Kg
   CURRENT FORCE = 18.625 kN/m² = 389. PSF.

4. REFER TO DRWG. № S-S-009 AND -010 IN RESPECT TO THE LOCATION FOR PICK-UP HOOKS AND SLINGS AND BALANCING OF THE BOOM IN THE SHOP.

SCALE: 1:400
0mt 10m 20m 30m 40m 50m

NOTE
NO WORK INDICATED ON THIS SHEET.
ISSUED FOR REFERENCE ONLY.

Public Works and Government Services Canada
Travaux Publics et Services gouvernementaux Canada

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE NOV 26 2015
V. LAKE
7137

SHM CANADA
INNOVATIVE ENGINEERING AND DESIGN

revisions		date
0	ISSUED FOR TENDER	11/06 2015

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CANSO CANAL
PORT HASTINGS
INVERNESS COUNTY, N.S.

drawing / dessin
LIFTING BOOM FORCES AND GEOMETRY

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date NOV. 25, 2015
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