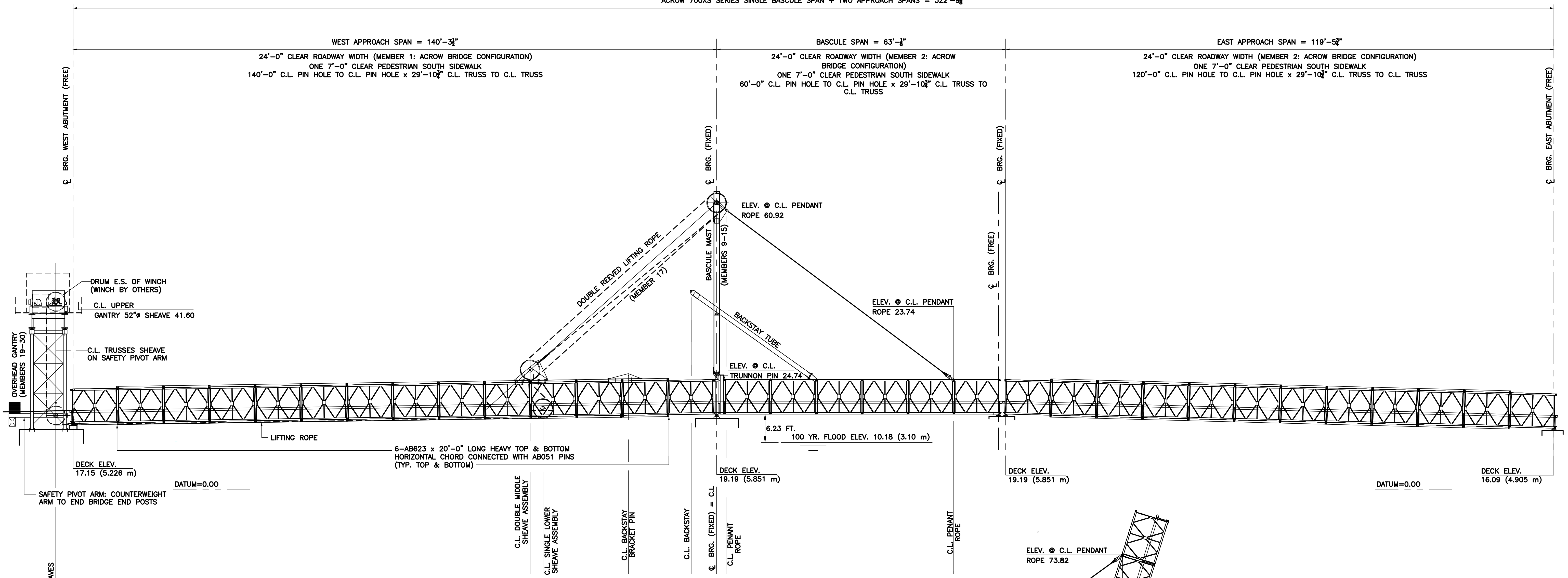
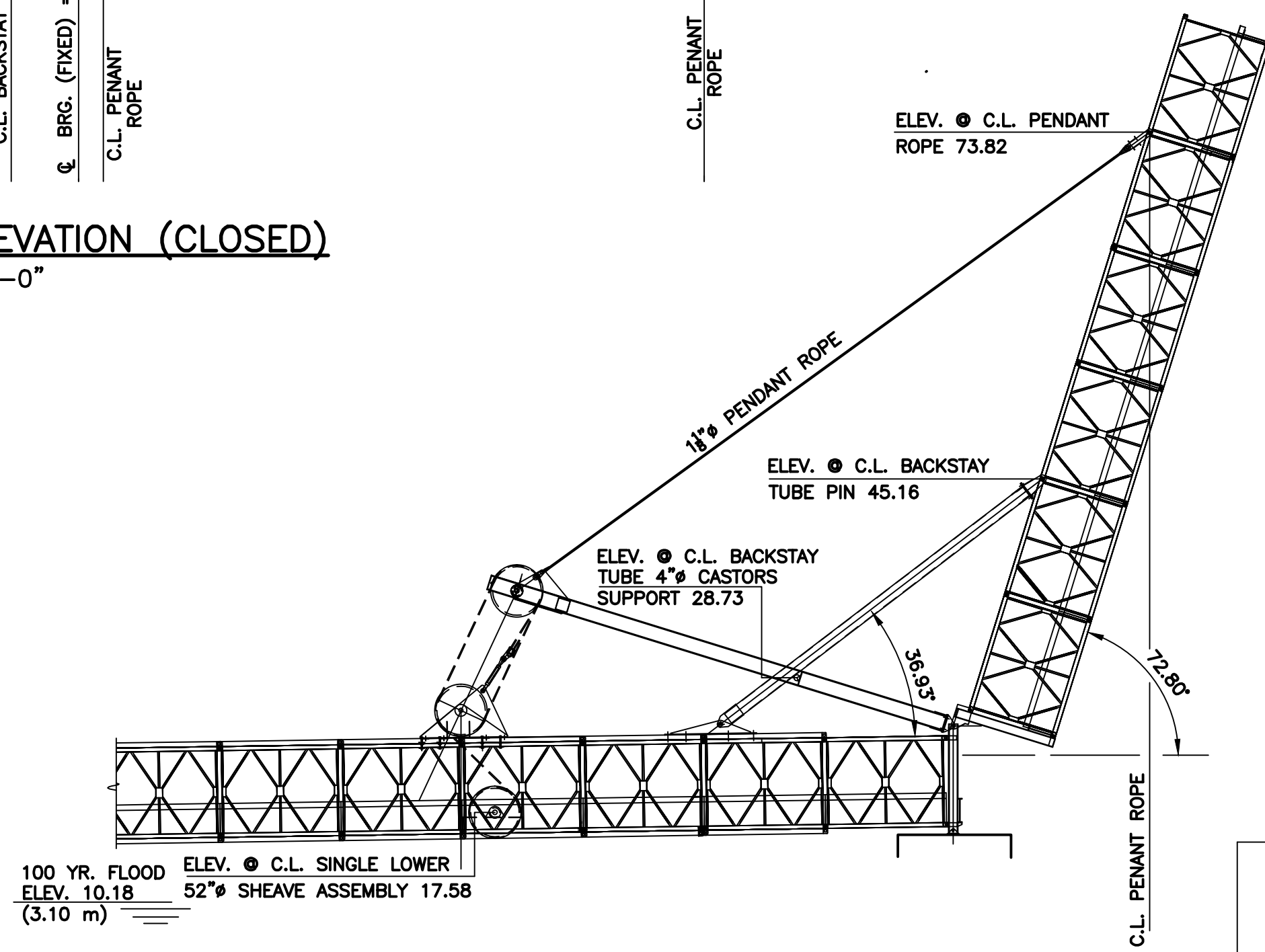


ACROW 700XS SERIES SINGLE BASCULE SPAN + TWO APPROACH SPANS = 322'-9 3/4"



SOUTH ELEVATION (CLOSED)
SCALE: 3/32" = 1'-0"



SOUTH ELEVATION BASCULE SPAN (OPEN)
SCALE: 3/32" = 1'-0"

BRIDGE DESIGN:
VEHICLE TRUCKING LOADING: HS-20-44 AS PER SERVICE (ALLOWABLE) STRESS DESIGN WITH 25% INCREASE IN ALLOWABLE STRESS ALL STRUCTURAL STEEL MEMBERS. 1:6 FACTOR OF SAFETY FOR ALL MECHANICAL PARTS AND LIFTING ROPES. BASCULE SPAN DESIGN: AASHTO STANDARD SPECIFICATIONS FOR MOVABLE HIGHWAY BRIDGES 1988. WIND LOAD WITH BASCULE LEAF CLOSED: 60 MPH AS PER AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS 1985.

MEMBER PROPERTIES
BRIDGE TRUSSES AND SIDEWALK TWIN CHANNEL BEARER: ASTM A572 GRADE 65 KSI
SIDEWALK DECK PLATES: ASTM A36 GRADE 36 KSI
ALL OTHER STRUCTURAL STEEL MEMBERS: ASTM A572 GRADE 50 KSI

BASCULE LEAF OPENING CRITERIA
CONDITION A: OPENING TIME OF 2 MINUTES / 2 PSF WIND LOAD
CONDITION B: OPENING TIME OF 3 MINUTES / 2 PSF WIND LOAD + 2.5 PSF ICE LOAD
CONDITION C: OPENING TIME OF 4 MINUTES / 10 PSF WIND LOADING + 2.5 PSF ICE LOAD

ACCEPTED FOR CONSTRUCTION

PRELIMINARY PROPOSED PLAN FOR
TEMPORARY MOVABLE BRIDGE

OAK BLUFFS
BEACH ROAD

OVER LAGOON POND

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

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