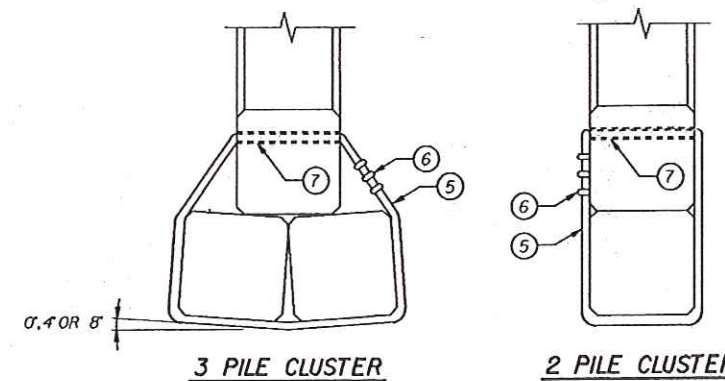
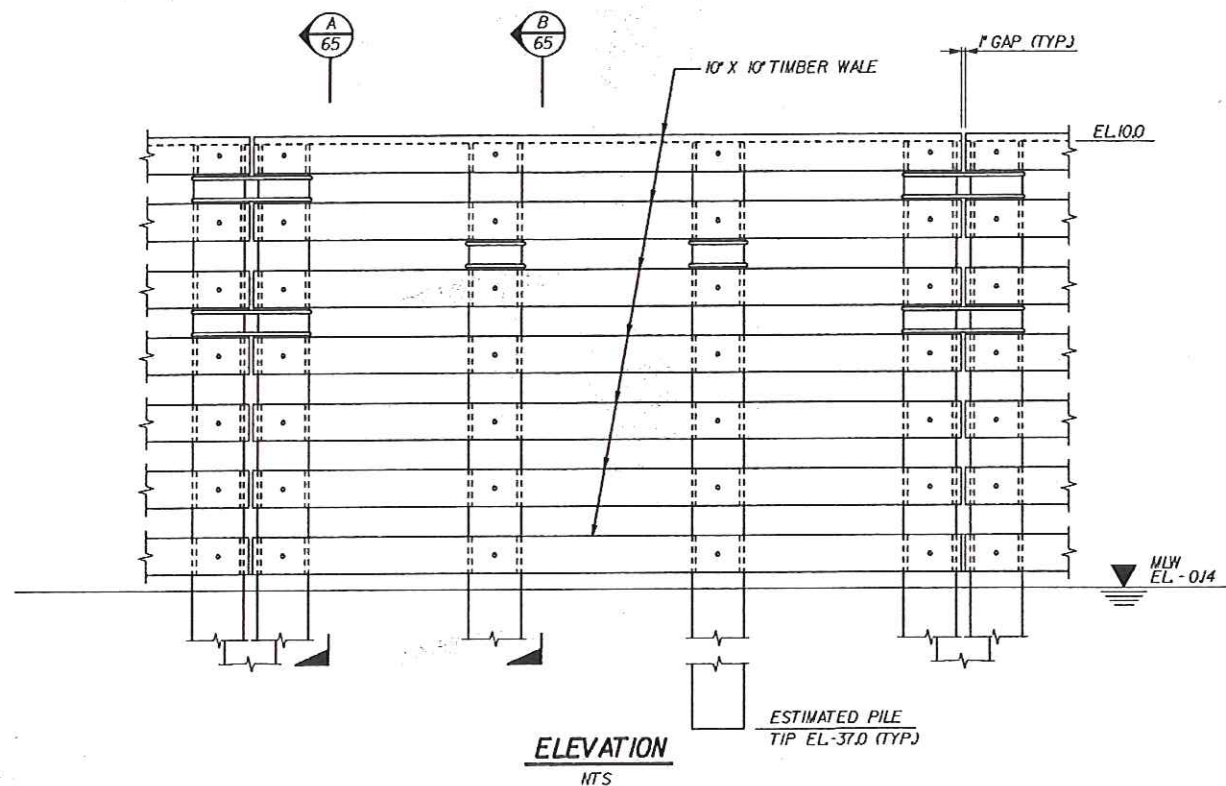
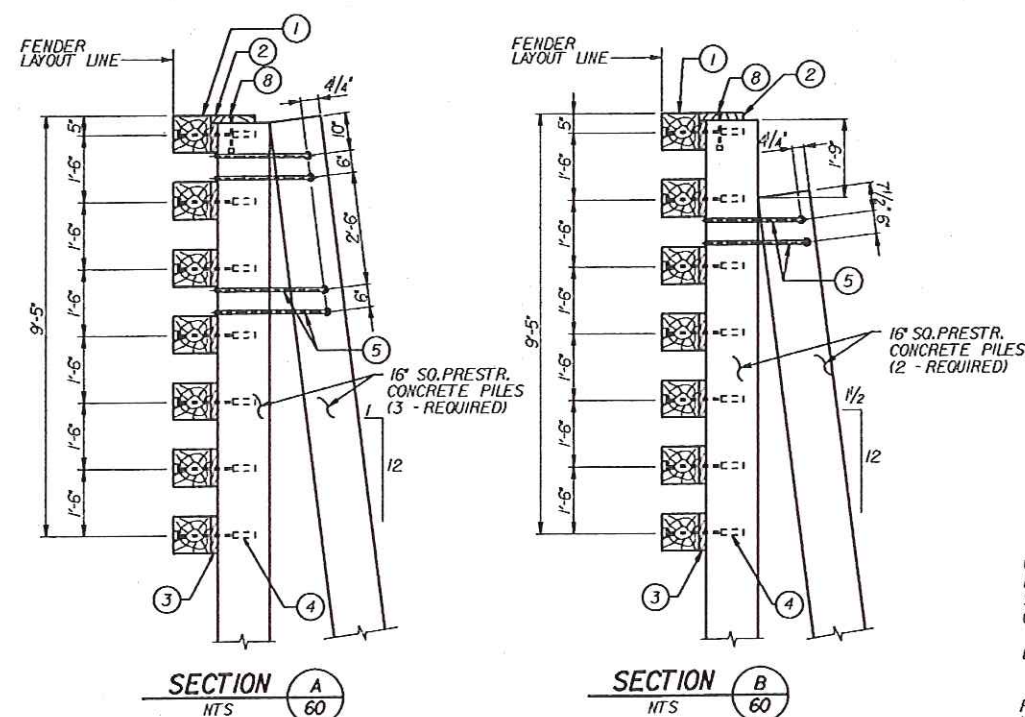


(\*) NOTE: 3 SPAN SEGMENT IS SHOWN. 4 SPAN SEGMENT IS SIMILAR, EXCEPT FOR AN ADDITIONAL 5'-0" SPAN. SEE PLAN FOR LOCATION.



**16" PRESTRESSED CONCRETE PILE CLUSTER**  
NTS



# LEGEND

- 10' X 10' TIMBER WALES. (MARK A THRU E)
- 2' X 12' TIMBER CATWALK.
- 3' X 12' TIMBER SPACER - 8" HIGH FOR TOP WALE AND 10" HIGH FOR OTHER WALES. (MARK F & G)
- 1" SCREW ANCHOR AND BOLT ASSEMBLY CAST W/PILE, COUNTERSINK BOLT HEAD (TYP.).
- 6 X 19 - 5/8" S.S. WIRE ROPE - 3 LOOPS REQUIRED.
- WIRE ROPE CLIPS SPACED AT 4 1/4" MIN. - 3 REQUIRED.
- 2" I.D. PVC PIPE SLEEVE.
- 1" X 11" LONG SCREW ANCHOR AND BOLT ASSEMBLY, CAST W/PILE, COUNTERSINK BOLT HEAD (TYP.).

# NOTES

- PILES SHALL BE PRESTRESSED CONCRETE 16" SQUARE.
- BOLTS AND ANCHORS SHALL BE MANUFACTURED BY RICHMOND SCREW ANCHOR CO. INC. OR APPROVED EQUAL.
- ALL BOLTS, WASHERS, SCREW ANCHORS AND CABLE CLIPS SHALL BE STAINLESS STEEL (S.S.) AND AS FOLLOWS:
  - BOLTS AND SCREW ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A193, CLASS 1B, GRADE B8MN.
  - NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A194, GRADE 8MN.
  - WASHERS AND WIRE ROPE CLIPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A194, GRADE 8MN.
- ALL PIPE SLEEVES SHALL BE OF POLYVINYL CHLORIDE, (PVC).
- ALL TIMBER SHALL BE ROUGH.
- WALES TO BE CUT IN FIELD, JOINTS TO BE AS SHOWN.
- ALL TIMBER SHALL BE GIVEN CCA-2.5 LBS./CF TREATMENT.

# GENERAL NOTES

CONCRETE: CLASS "X" (f' c = 5000 psi)  
 REINFORCING STEEL: AASHTO M31 GRADE 60 (fy = 60ksi)  
 STRUCTURAL STEEL: AASHTO M270 GRADE 36 (fy = 36ksi)  
 GALVANIZING: ASTM A123 OR A153 AS APPLICABLE

DESIGN LOAD: DEAD LOAD PLUS 65 PSF (SERVICE LOAD) FOR WIND AND WAVE ACTION

PRESTRESSED CONCRETE PILING SHALL HAVE A BEARING VALUE OF 20 TONS.

TIMBER WALES SHALL BE CONTINUOUS OVER A MINIMUM OF 2 SUPPORTS. SEE DETAILS FOR ALTERNATIVE SPICES. SPICE LOCATIONS SHALL ALTERNATE BETWEEN ADJACENT WALES, WITH NO MORE THAN 4 SPICES PERMITTED AT THE SAME LOCATION. WALES SHALL HAVE A MINIMUM LENGTH OF 12 FEET.

## SAMPLE FENDER SYSTEM DETAILS