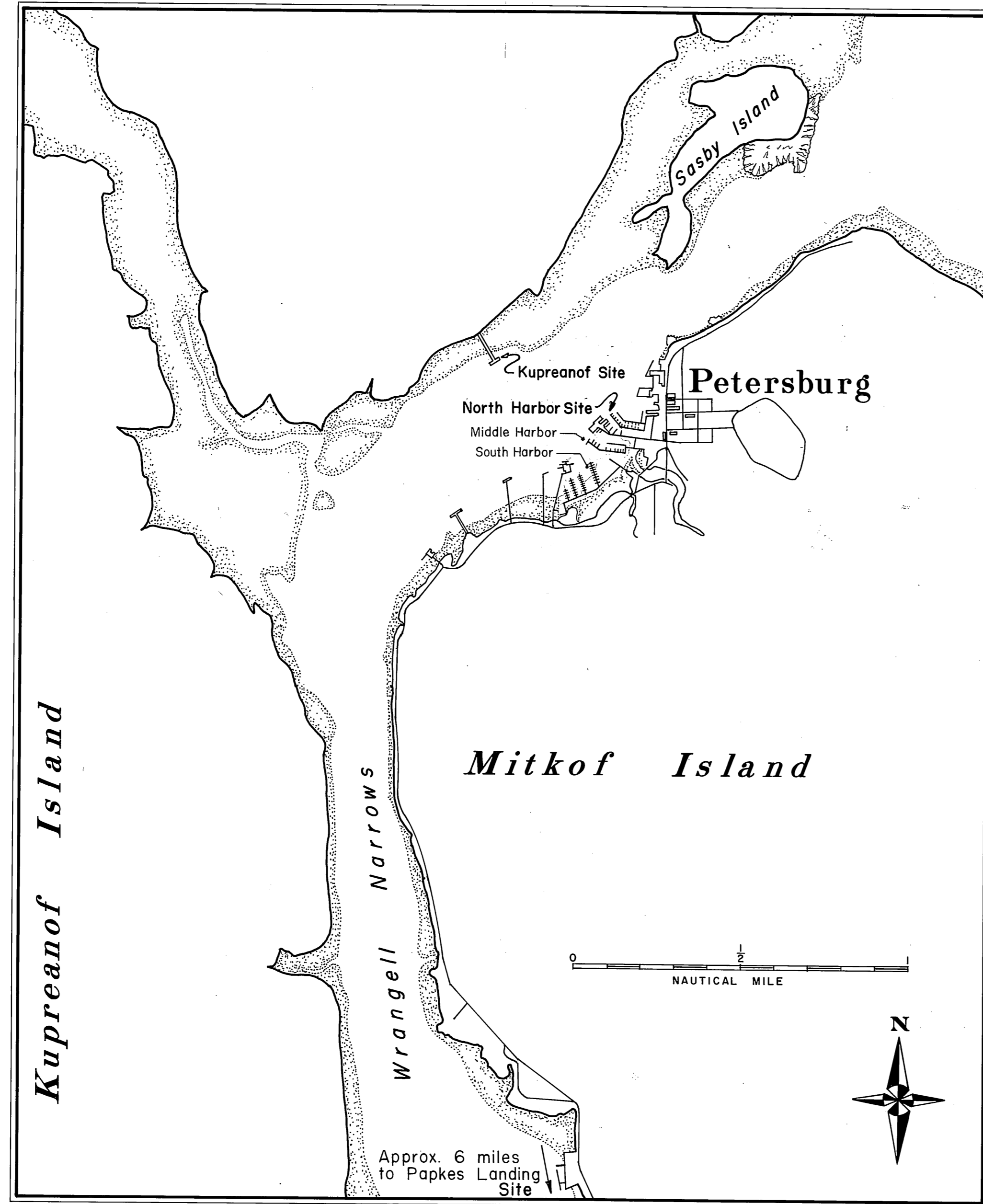
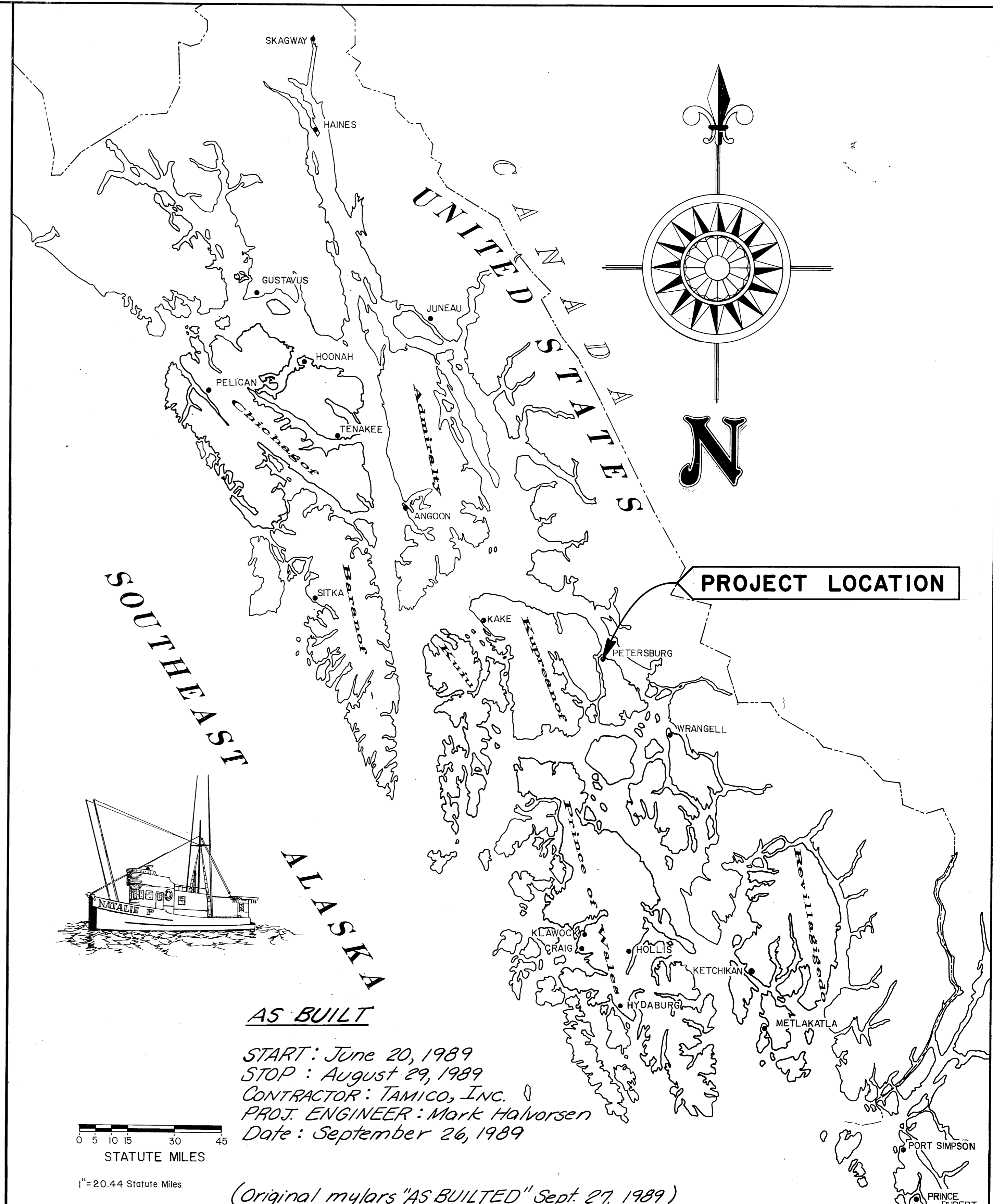


PETERSBURG HARBOR REHABILITATION

PROJECT No. 69719



VICINITY MAP



AS BUILT

START: June 20, 1989
 STOP: August 29, 1989
 CONTRACTOR: TAMICO, INC.
 PROJ. ENGINEER: Mark Halvorsen
 Date: September 26, 1989

(Original mylars "AS BUILT" Sept. 27, 1989)

STATE
OF
ALASKA

DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

APPROVED

D. Dickmeys 1-6-89
Director S.E. D.&C. Date

Recommend
for Approval

J. Mansell 1-6-89
Design Chief Date

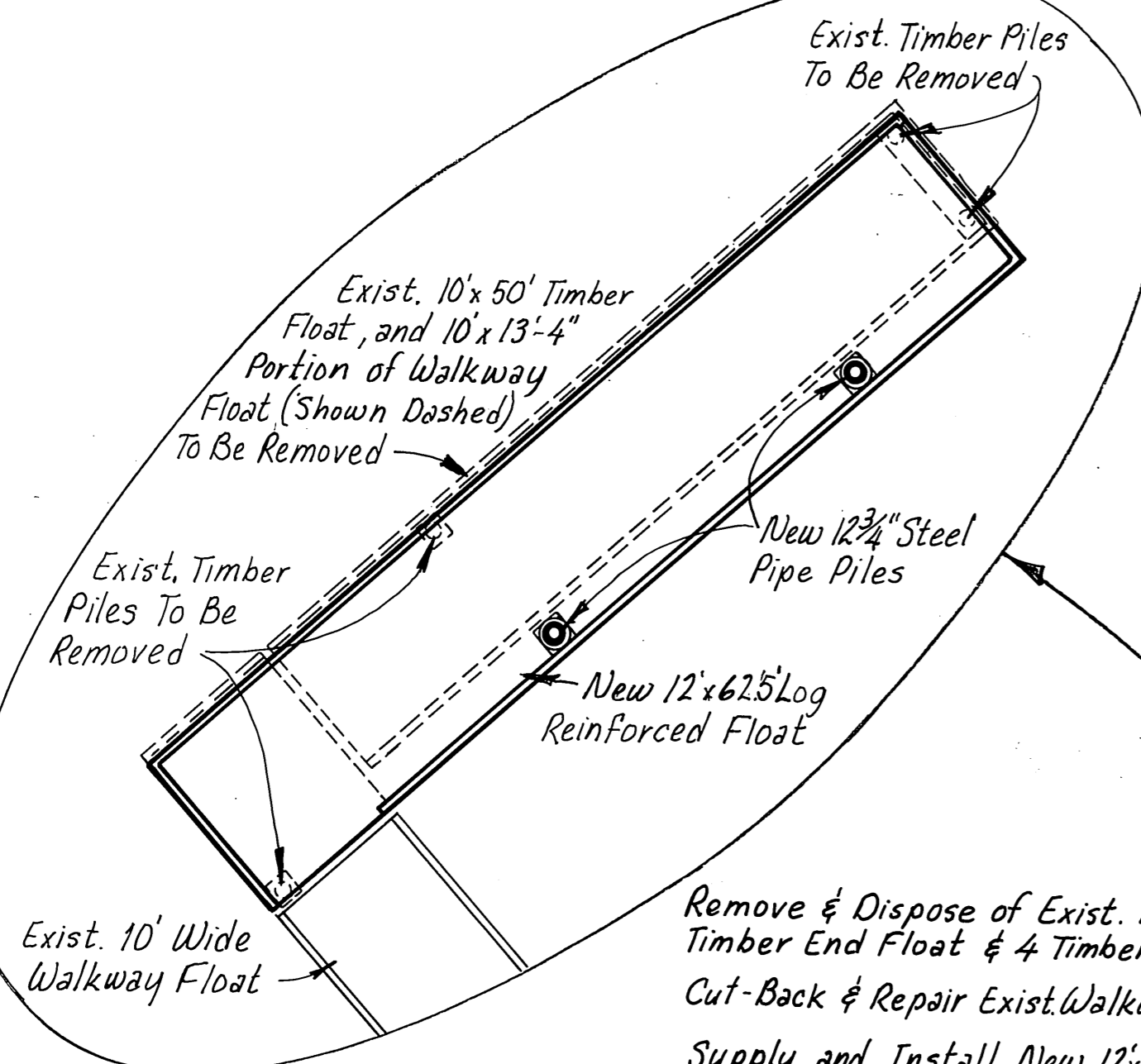
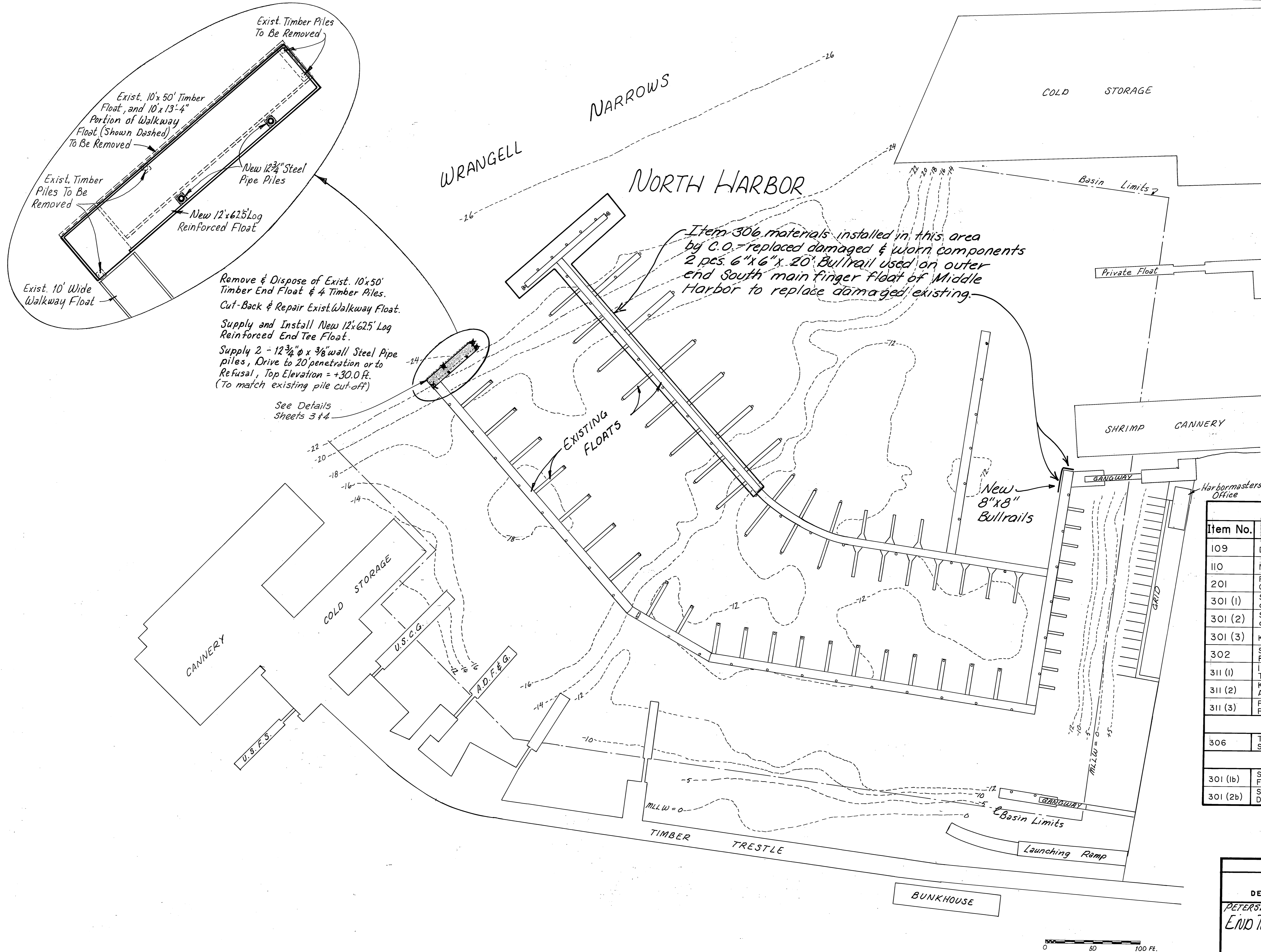
SHEET 1 of 10

INDEX TO SHEETS

| 1. Title | | | |
|--|--|--|--|
| 2. End Tee Float Replacement & Walkway Repairs | | | |
| 3. Walkway Float Repair & Connection Details | | | |
| 4. 12' Wide Log Reinforced Float Details | | | |
| 5. Kupreanof Approach & Piling Repairs | | | |
| 6. Kupreanof Flotation Repairs | | | |
| 7. Papke Landing, Flotation & Pile Collars | | | |
| 8. Papke Landing, New 6'x50' Steel Gangway | | | |
| 10. Supply Only Items - Details & Quant. | | | |

PROJECT & FILE NO.

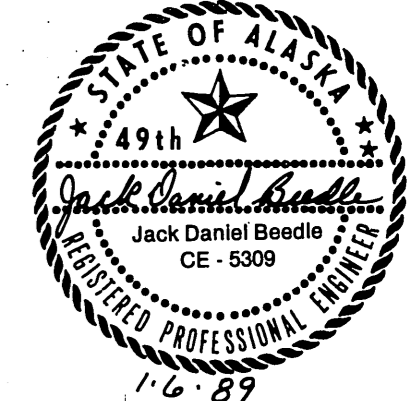
69719
PETERSBURG
NORTH HARBOR
KUPREANOF &
PAPKE LANDING
REPAIRS
Sht 1 of 10



Remove & Dispose of Exist. 10'x50' Timber End Float & 4 Timber Piles.
 Cut-Back & Repair Exist. Walkway Float.
 Supply and Install New 12'x62.5' Log Reinforced End Tee Float.
 Supply 2 - 12 3/4" ϕ x 3/8" wall Steel Pipe piles, Drive to 20 penetration or to Refusal, Top Elevation = +30.0 ft. (To match existing pile cut-off)

See Details Sheets 3 & 4

Item 306 materials installed in this area by C.O. - replaced damaged & worn components 2 pcs. 6"x6"x20' Bullrail used on outer end South main finger float of Middle Harbor to replace damaged existing.

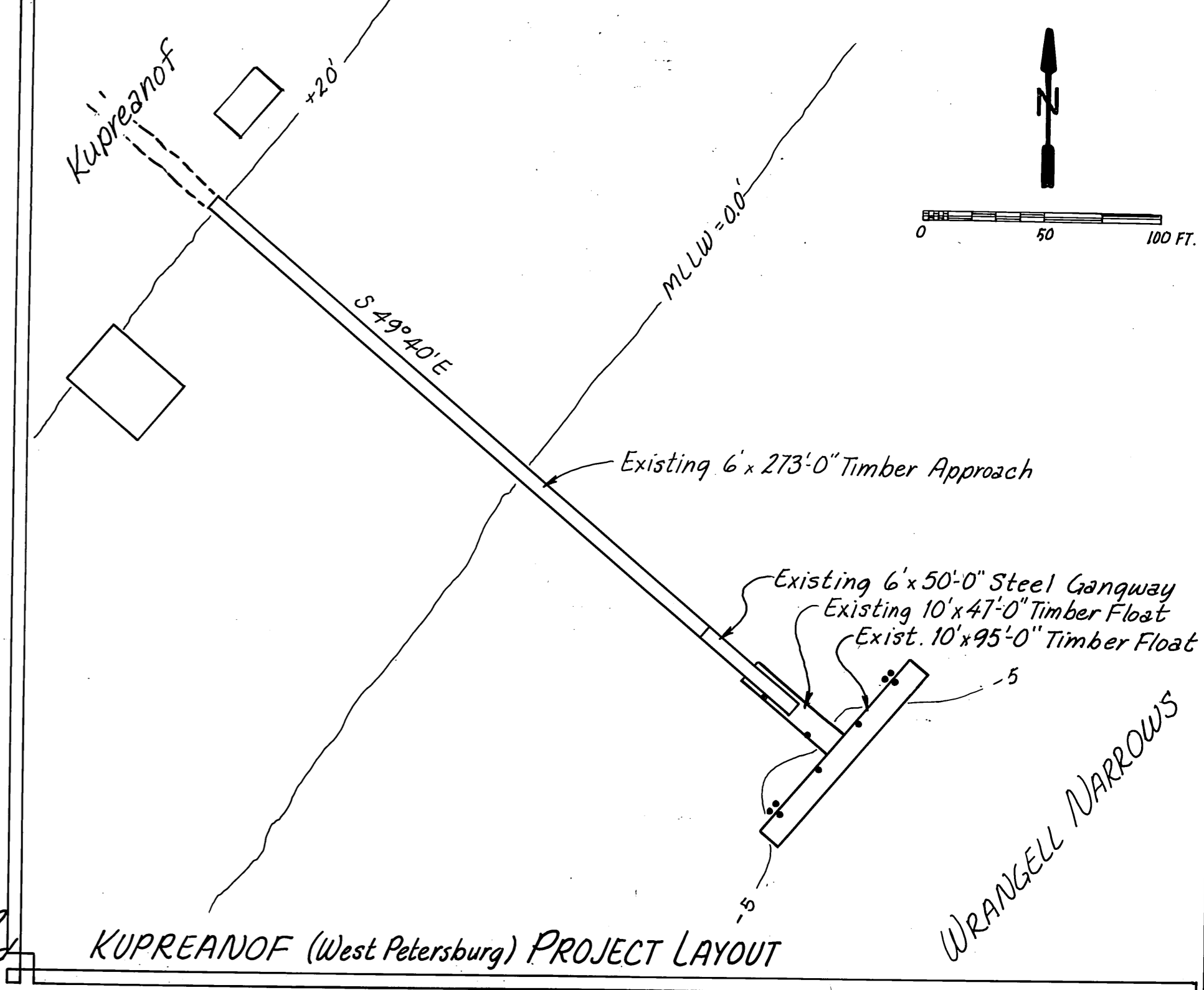
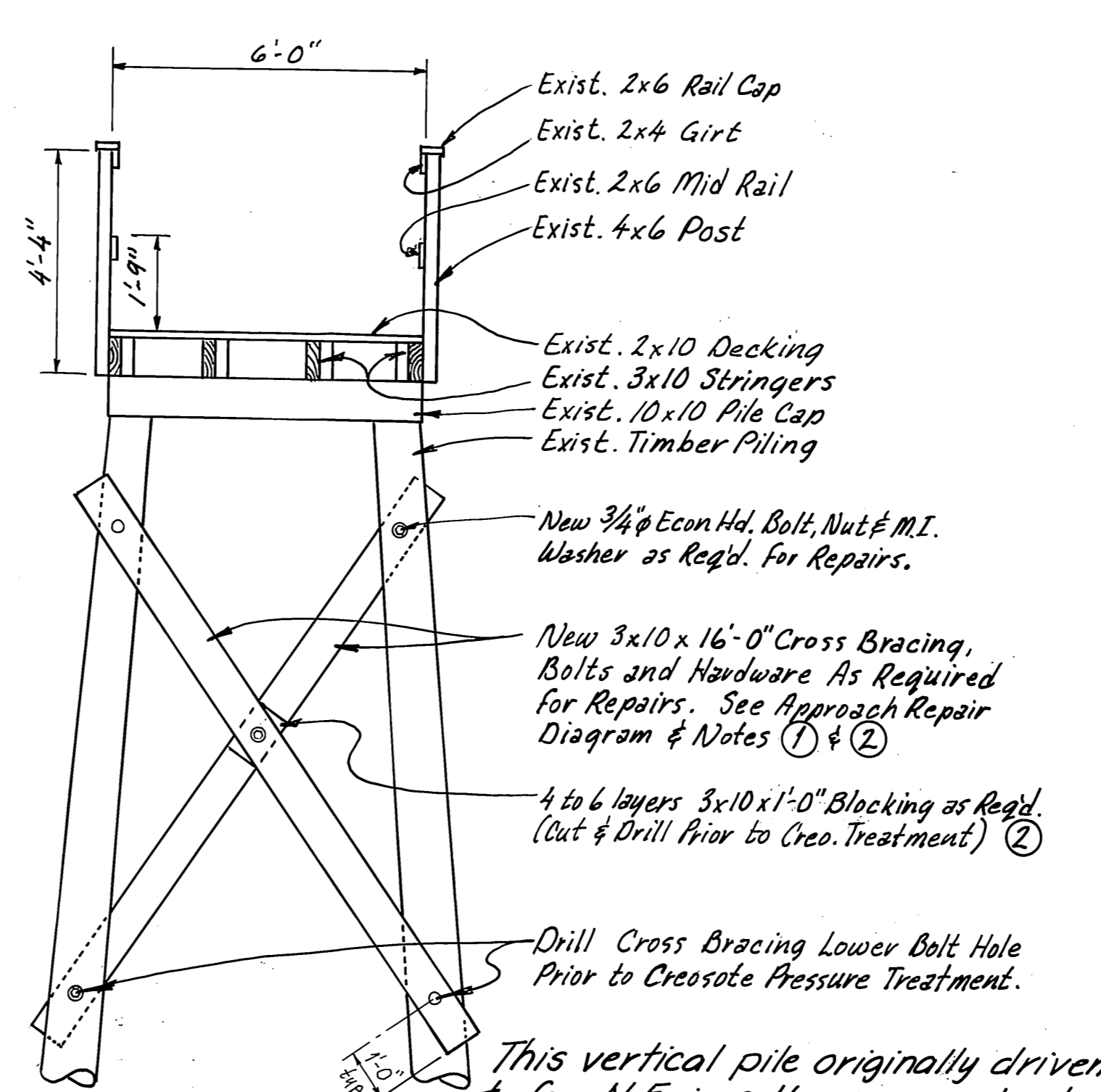
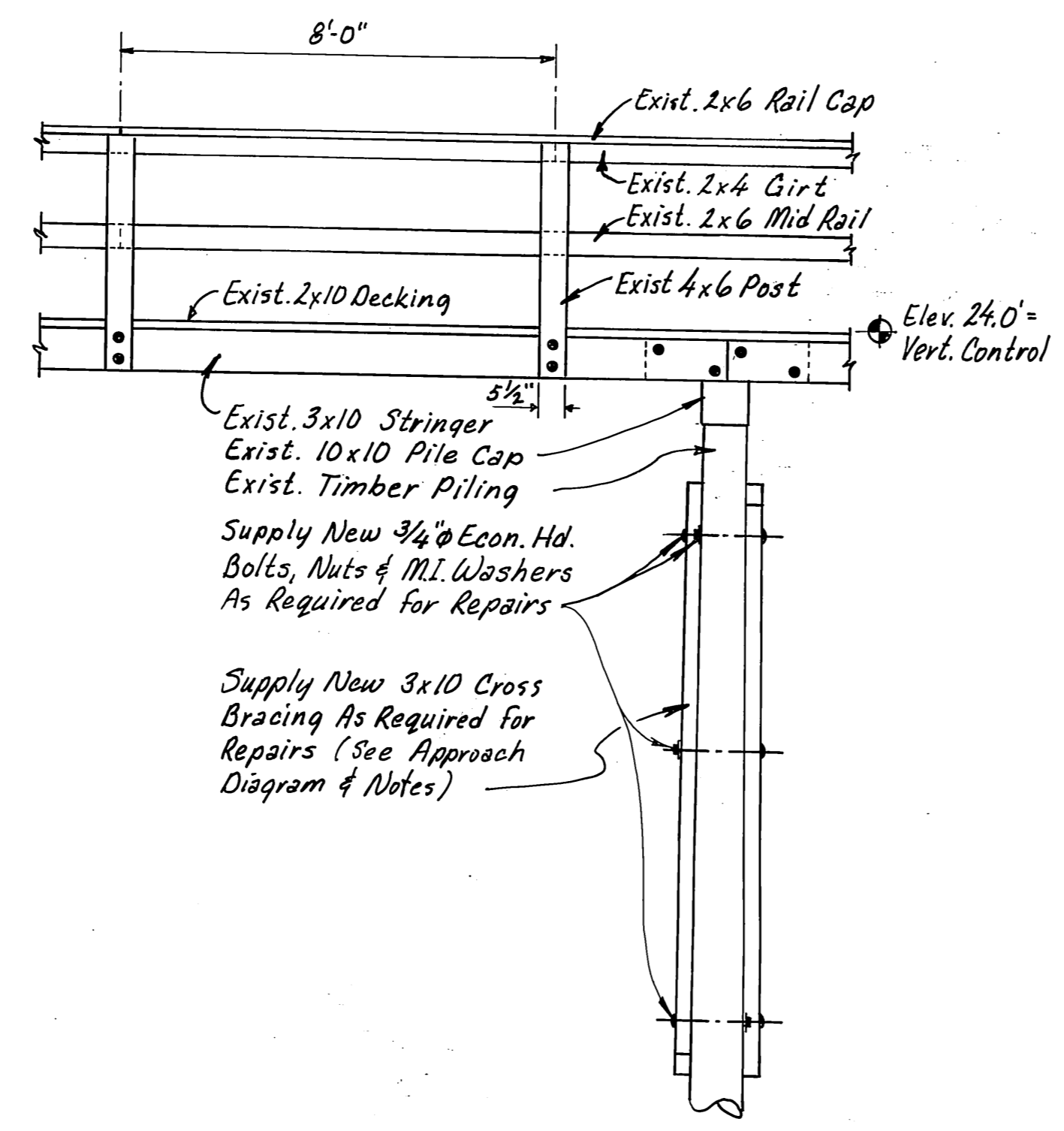


| Estimate of Quantities | | | |
|------------------------|--|------|------------|
| Item No. | Item | Unit | Quantity |
| 109 | DBE and WBE Adjustments | C.S. | All Req'd. |
| 110 | Mobilization and Demobilization | L.S. | All Req'd. |
| 201 | Removal of Structures and Obstructions | L.S. | All Req'd. |
| 301 (1) | Structural Steel Piles, Furnished at North Harbor | L.F. | 148 |
| 301 (2) | Structural Steel Piles Driven at North Harbor | Each | 2 |
| 301 (3) | Kupreanof Dolphin Repairs | Each | 2 |
| 302 | Structural Steel Gangway Furnished, Fabricated and Erected | L.S. | All Req'd. |
| 311 (1) | 12'x62.5' Log Reinforced Timber Float | L.S. | All Req'd. |
| 311 (2) | Kupreanof Float and Approach Repairs | L.S. | All Req'd. |
| 311 (3) | Papke Landing Float Repairs and Pile Collars L.S. | L.S. | All Req'd. |
| Supplemental A | | | |
| 306 | Treated Timber and Steel Components | L.S. | All Req'd. |
| Supplemental B | | | |
| 301 (lb) | Structural Steel Piles, Furnished at Kupreanof | L.F. | 48 |
| 301 (2b) | Structural Steel Piles, Driven at Kupreanof | Each | 1 |

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

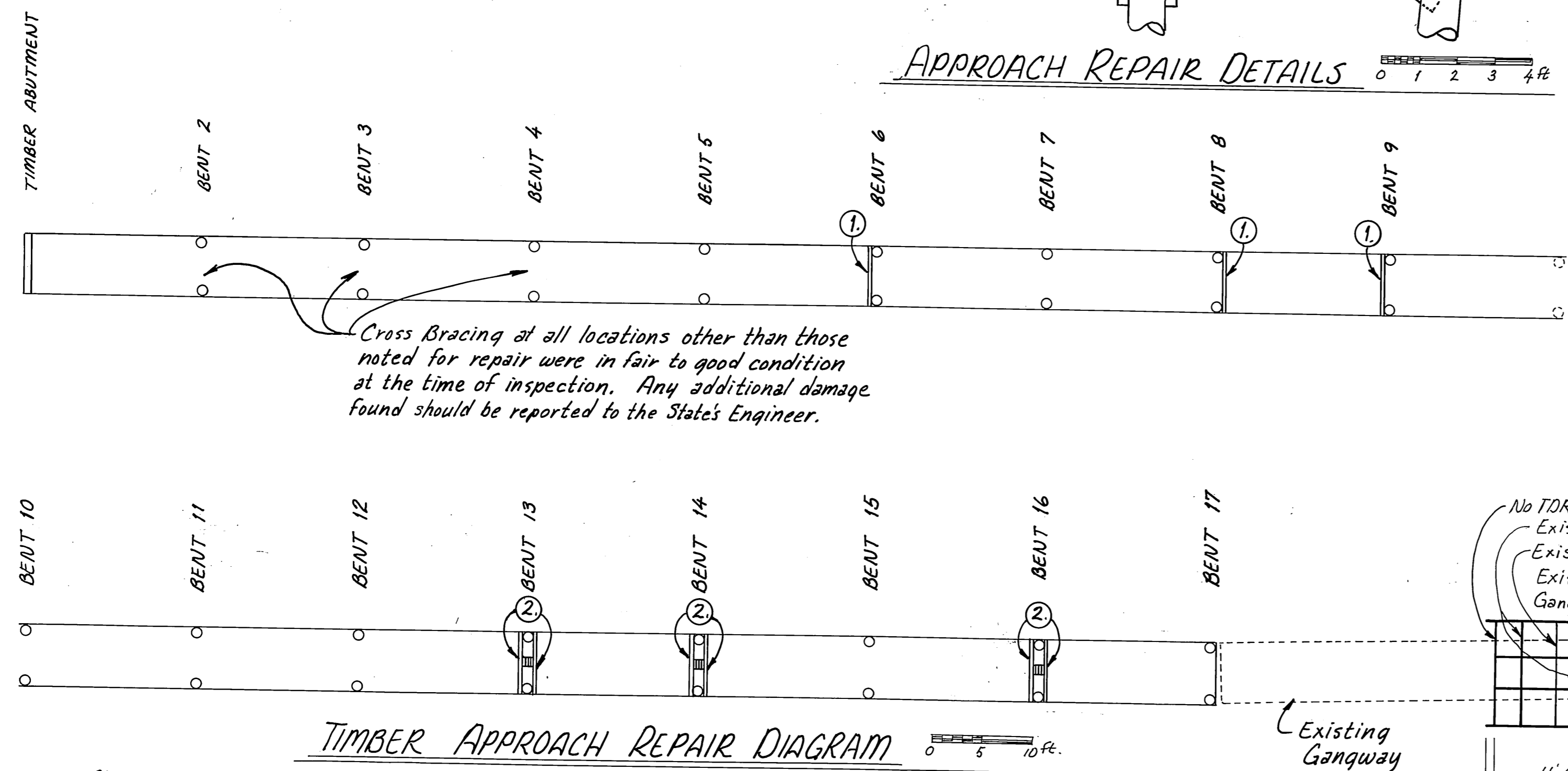
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 PETERSBURG, North Harbor ALASKA
END TEE FLOAT REPLACEMENT & WALKWAY REPAIRS

DESIGNED _____ CHECKED JOB DRAWN WmD DATE Aug 1988
 PROJECT NUMBER 69719 SHEET 2 OF 10



APPROACH REPAIR DETAILS

This vertical pile originally driven to far N.E. in collar - was plumbed at half tide & Dolphin Framed, but on minus tide, float forced pile over causing top blocking to shift & tilt - Tilt cannot increase further as float goes aground on big minus tide - Dolphin is functional as is

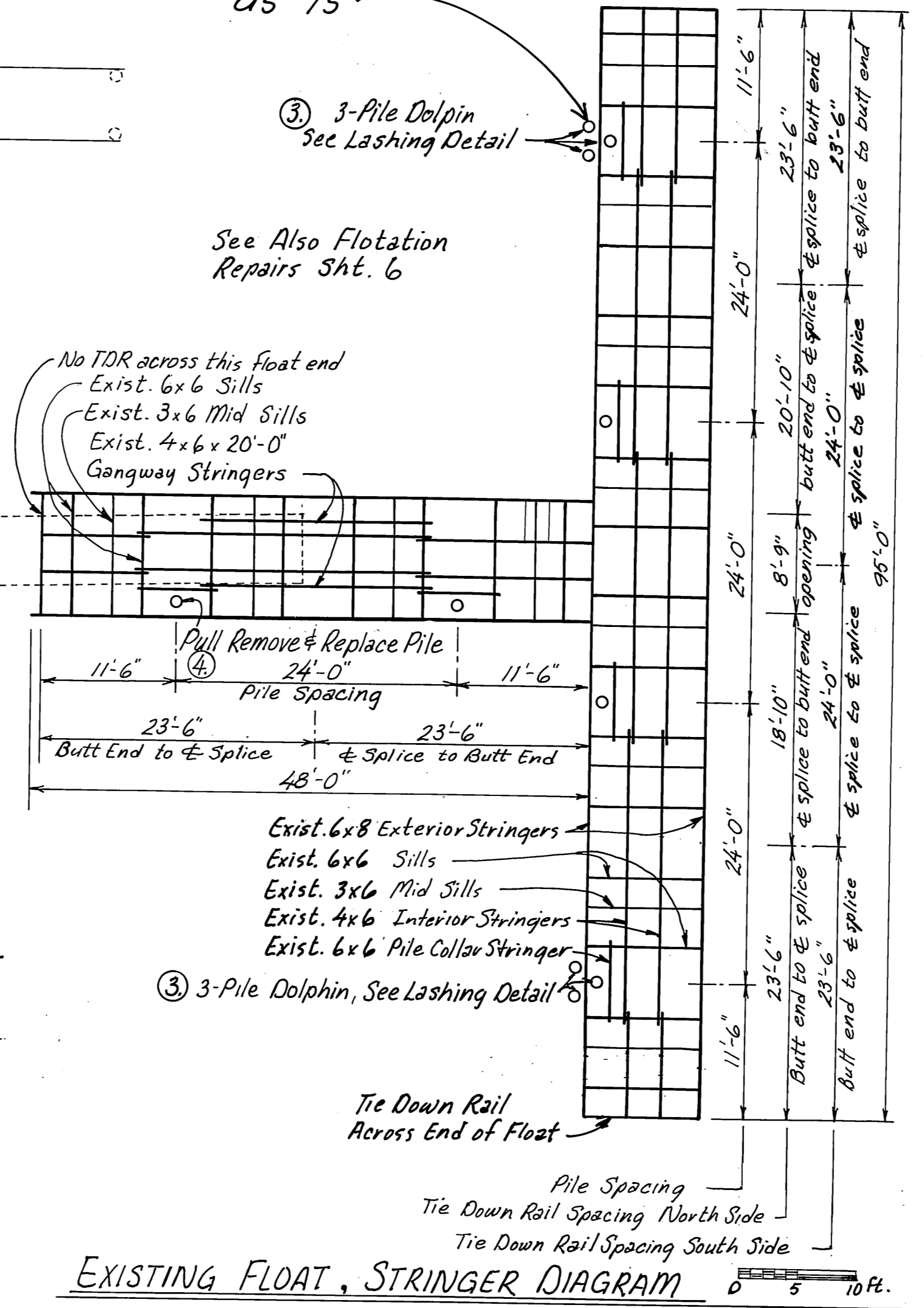


TIMBER APPROACH REPAIR DIAGRAM

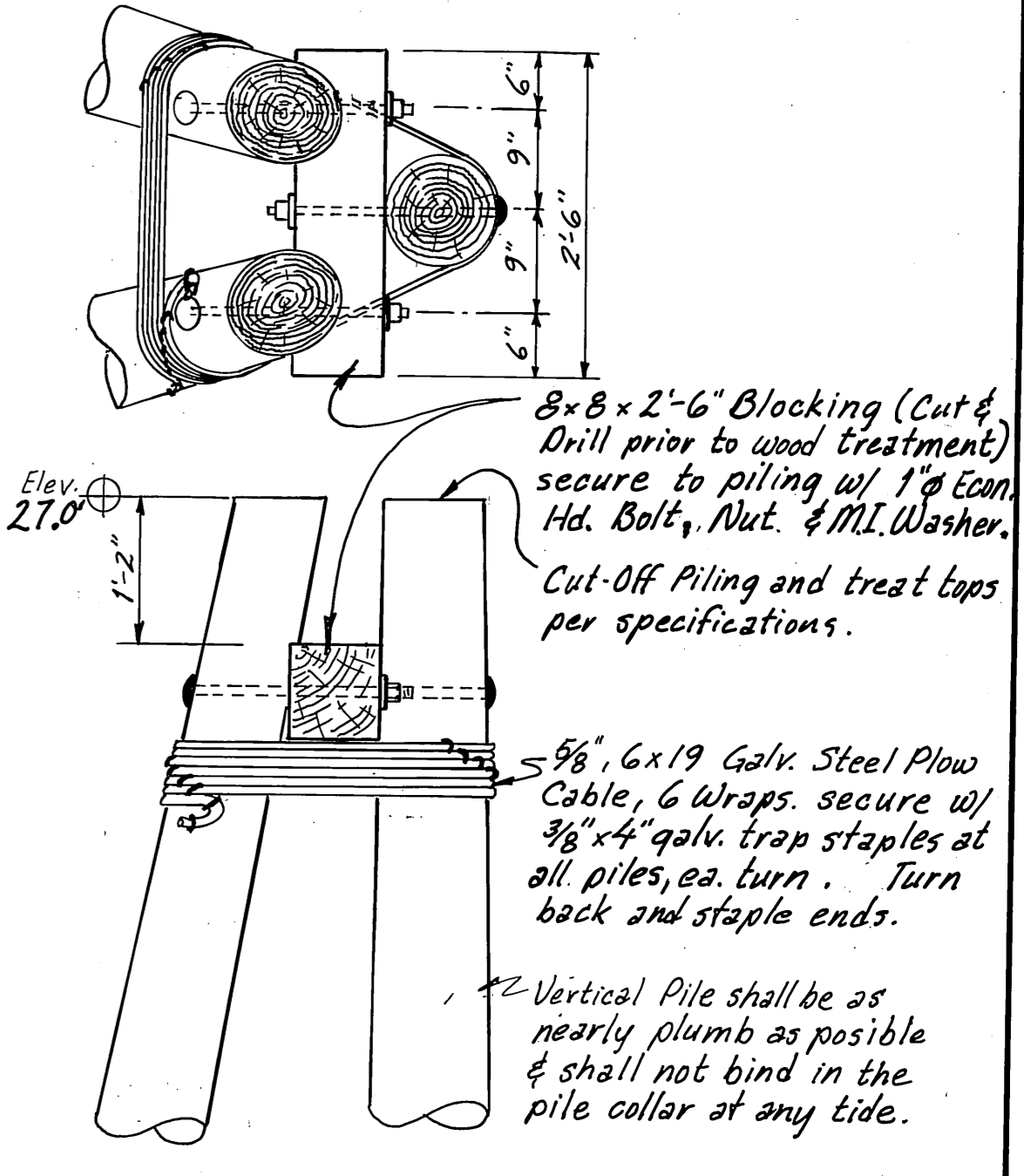
- NOTES:
- Supply & Install 3x10 Brace One Side Only. Secure w/ New 3/4" Econ. Hd. Bolts, Nuts & M.I. Washers (Extra length threads suggested). *
 - Supply & Install 3x10 Brace Both Sides. Secure w/ New 3/4" Econ. Hd. Bolts, Nuts & M.I. Washers. Supply 3x10x1'-0" Blocking (cut & drilled prior to pressure treatment) 4 to 6 layers as req'd. Secure w/ New 3/4" Econ. Hd. Bolt, Nut & M.I. Washer thru Cross Braces & Pile, and thru Cross Braces & Blocking. *
- *Installation of New 3x10 Bracing requires Removing Existing Damaged Bracing & Bolts.

- NOTES:
- 3-Pile Dolphin Repairs include removal of exist. cable lashing; trimming & treating tops; blocking and relashing. Existing Top Elev. = 28.0 ft. and Final Top Elev. = 27.0 ft. after cut-off, (or as directed by the State's Engineer) Supply & Install 8x8x2'-6" Blocking; 1" Econ. Hd. Bolts, Nuts & M.I. Washers, and 5/8" Galv. Steel Plow Cable Lashing secured w/ 3/8"x4" trap staples as shown in the 3-Pile Dolphin Lashing Details this sh.
 - Pull & Remove the exist. timber float pile near the bottom of the gangway. Supply Replacement 12 3/4" x 3/8" wath galv. steel pipe pile w/ driving shoe (APR 0-14000 or Equal), and drive to 15 ft. penetration or to refusal. Cut-off elev. = 28'. This work is being bid as Supplemental "B".

NOT AWARDED

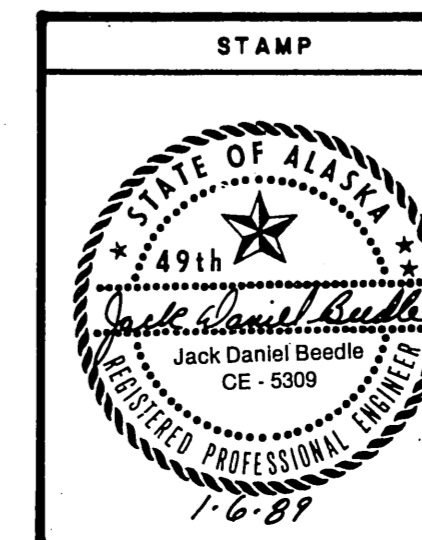
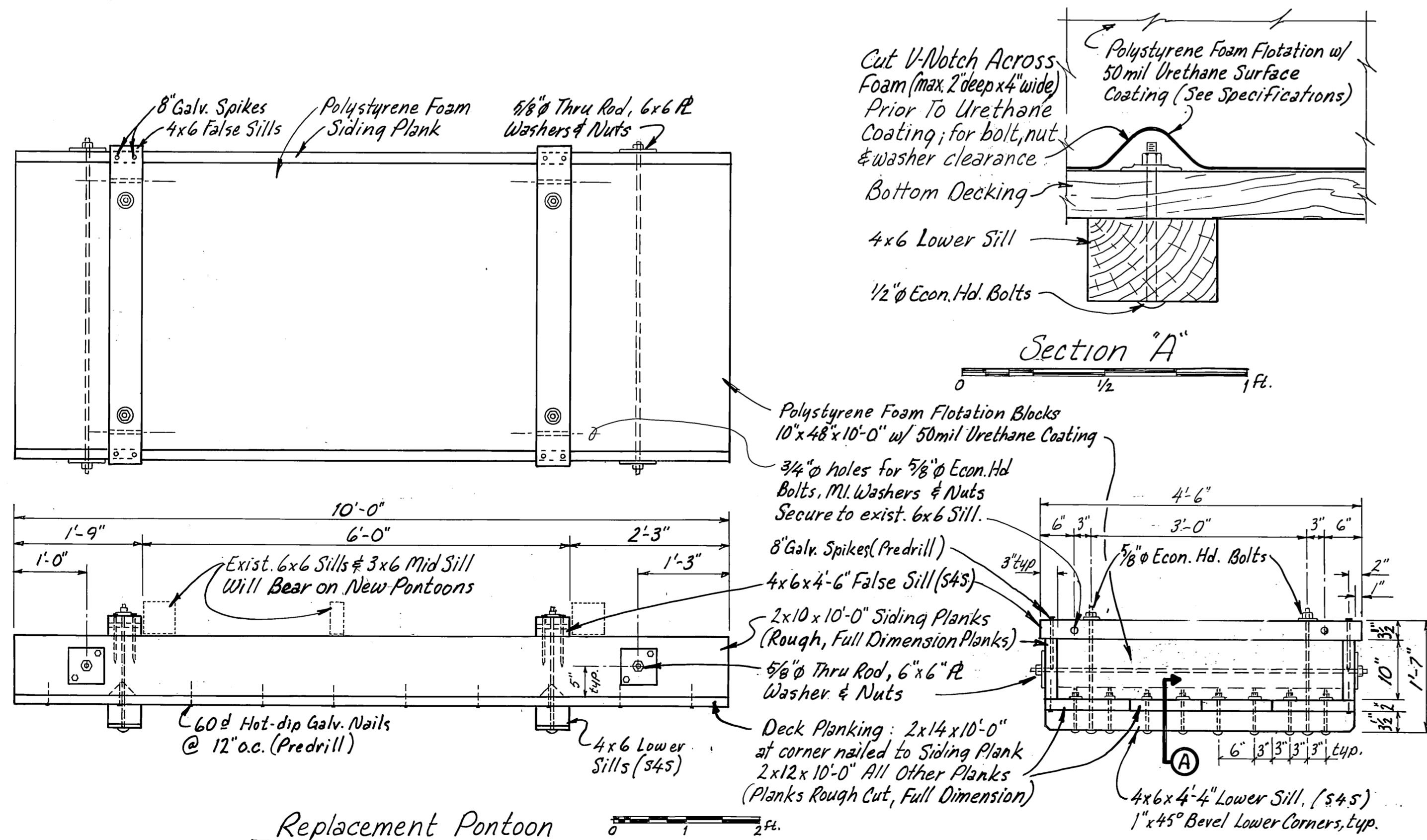
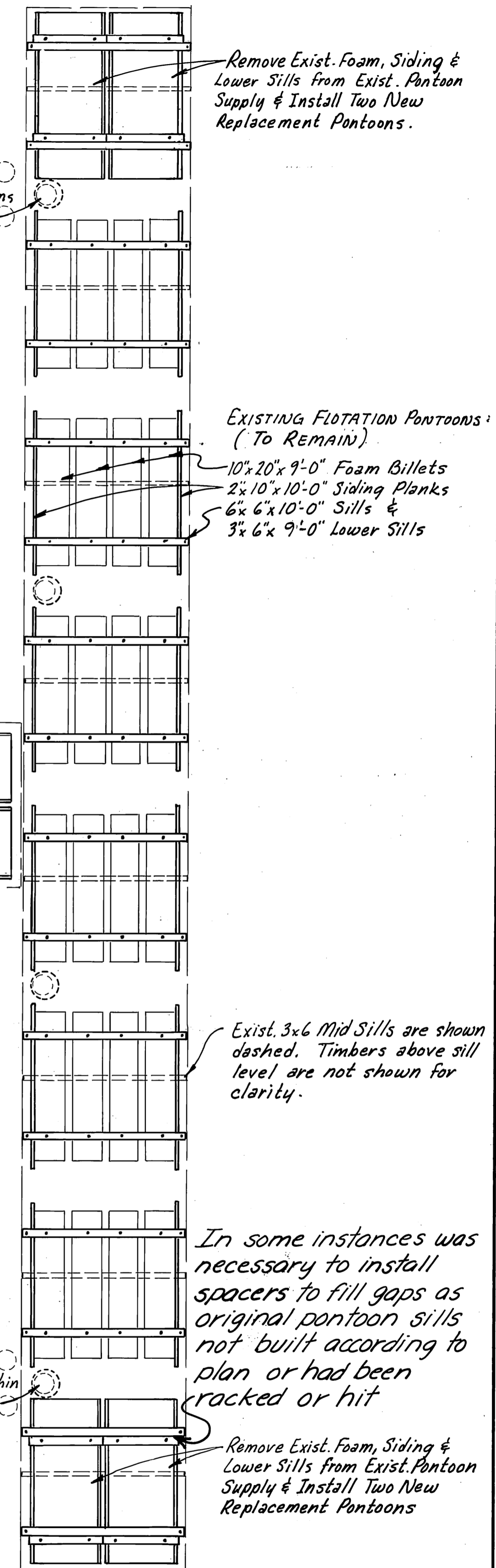
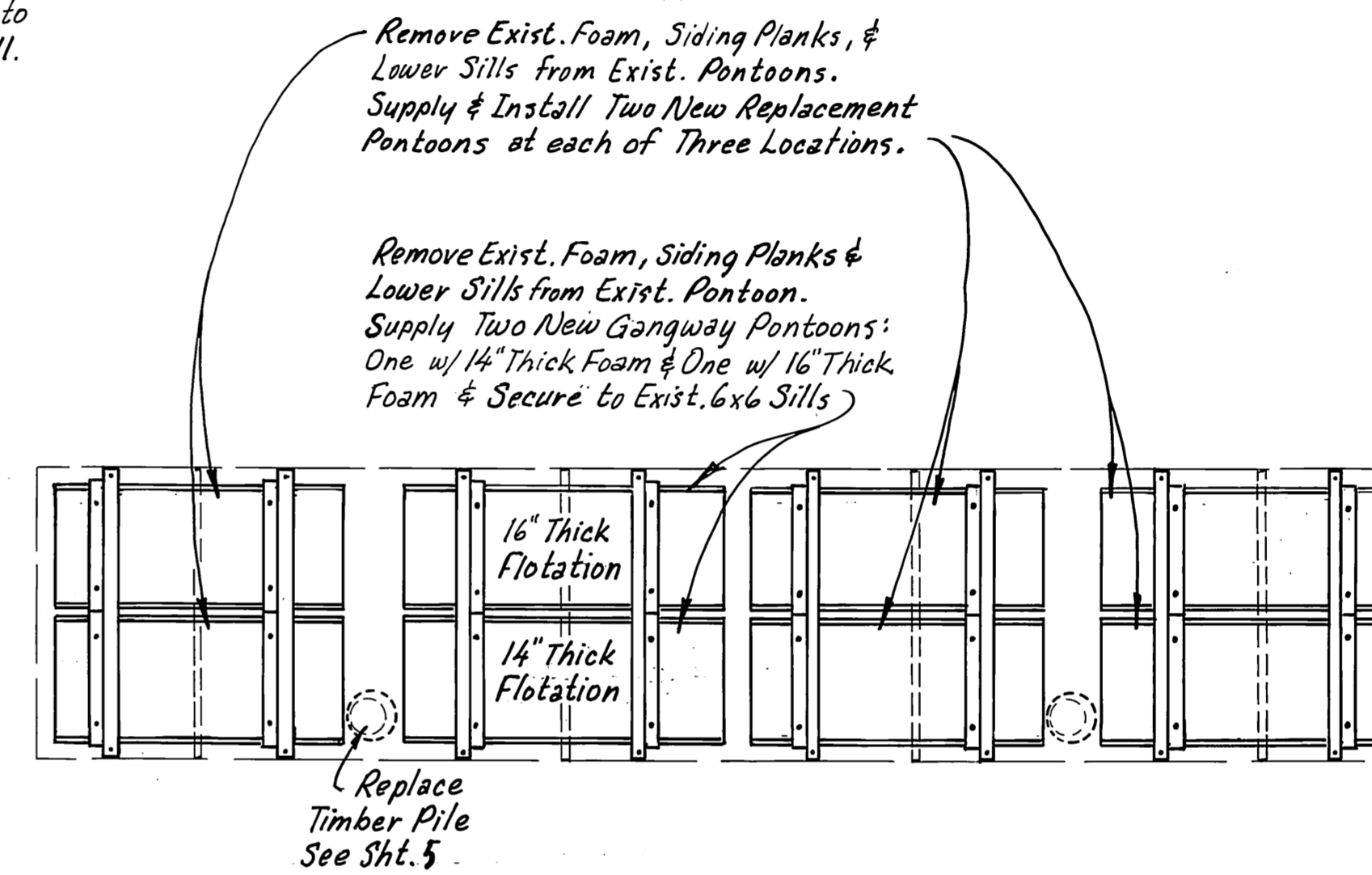
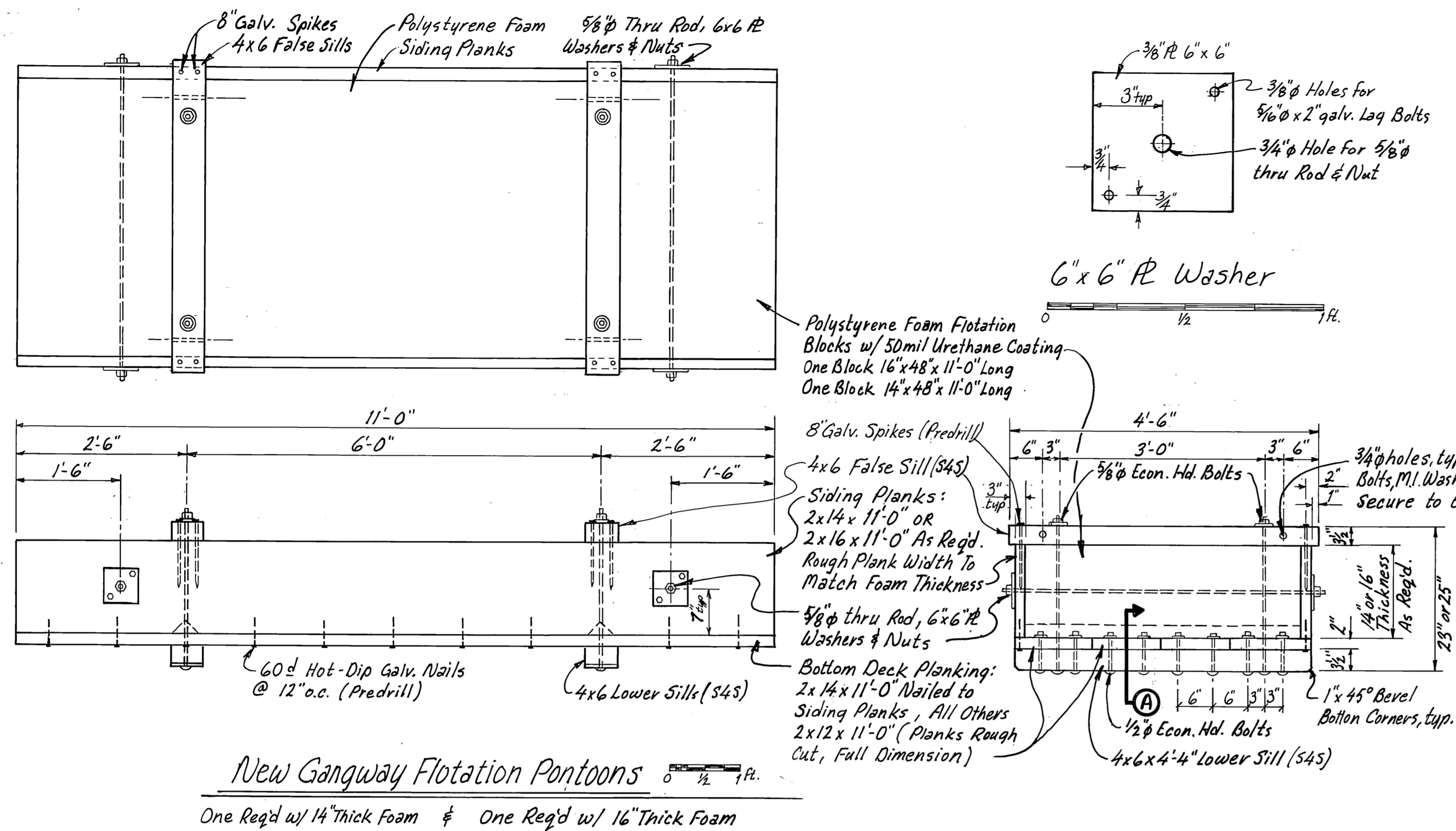


EXISTING FLOAT, STRINGER DIAGRAM

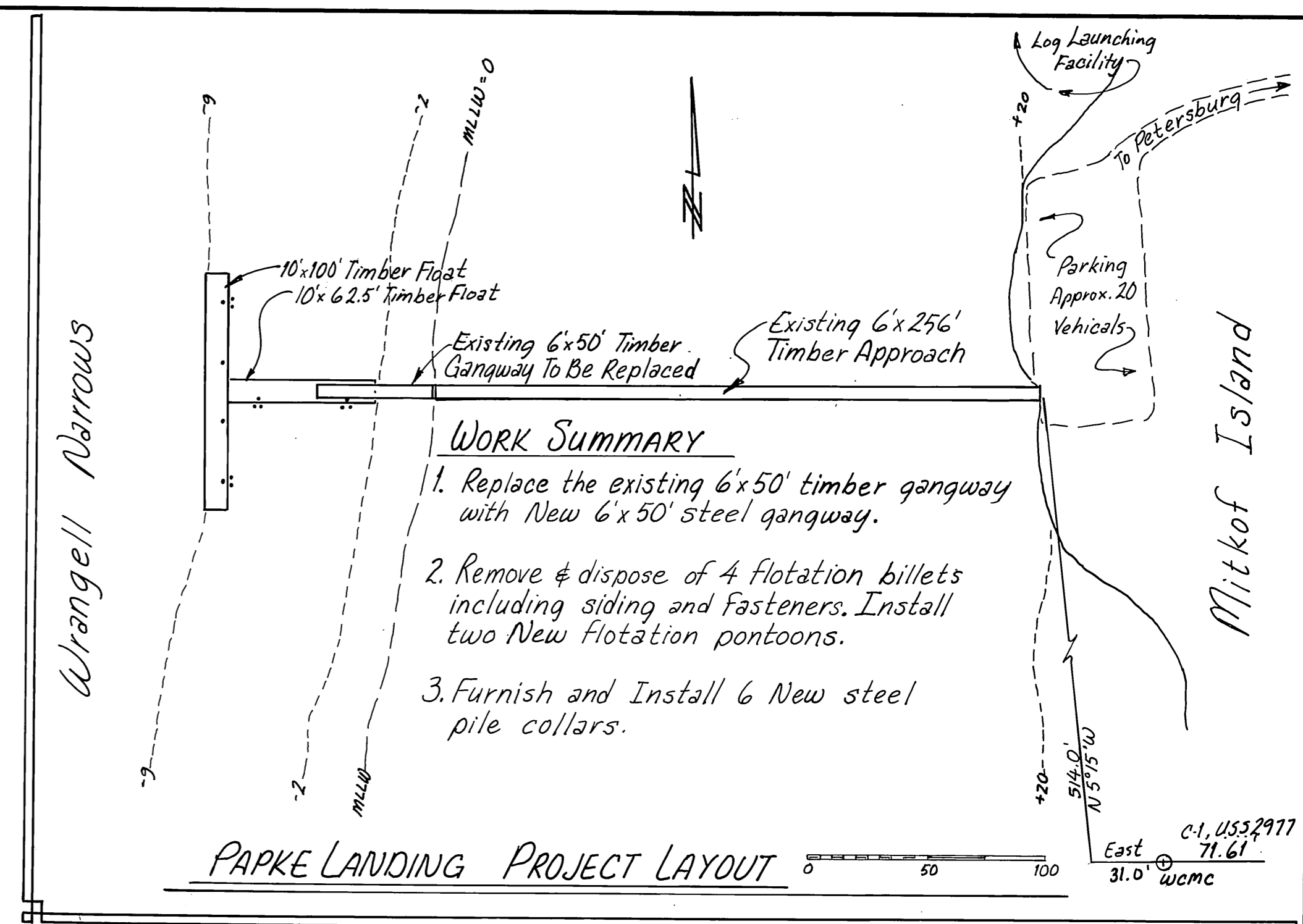
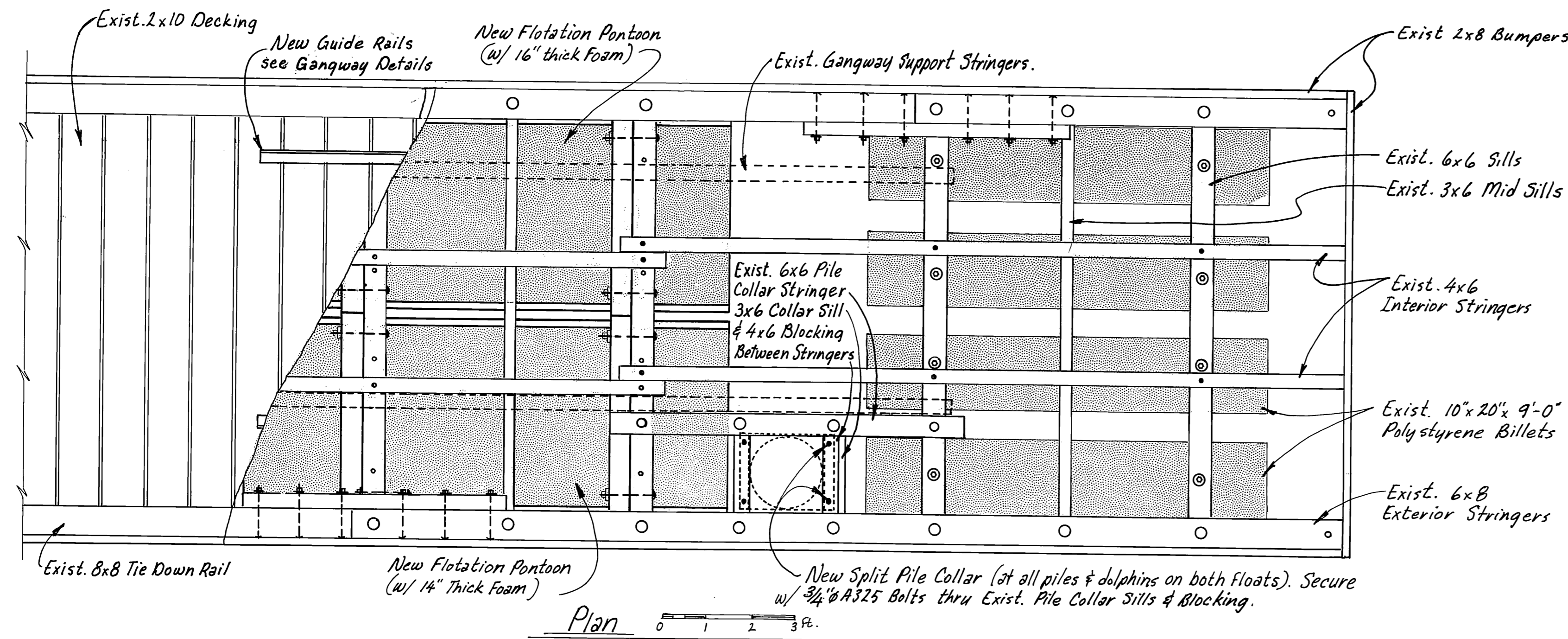


3-PILE DOLPHIN, LASHING DETAIL

| | | | |
|---|--------------------|--|---------------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KUPREANOF (West Petersburg) | | ALASKA | |
| KUPREANOF APPROACH & PILING REPAIRS | | | |
| DESIGNED | CHECKED JDB | DRAWN WmN | DATE Sept 88 |
| PROJECT NUMBER 69719 | SHEET 5 | | OF 10 |

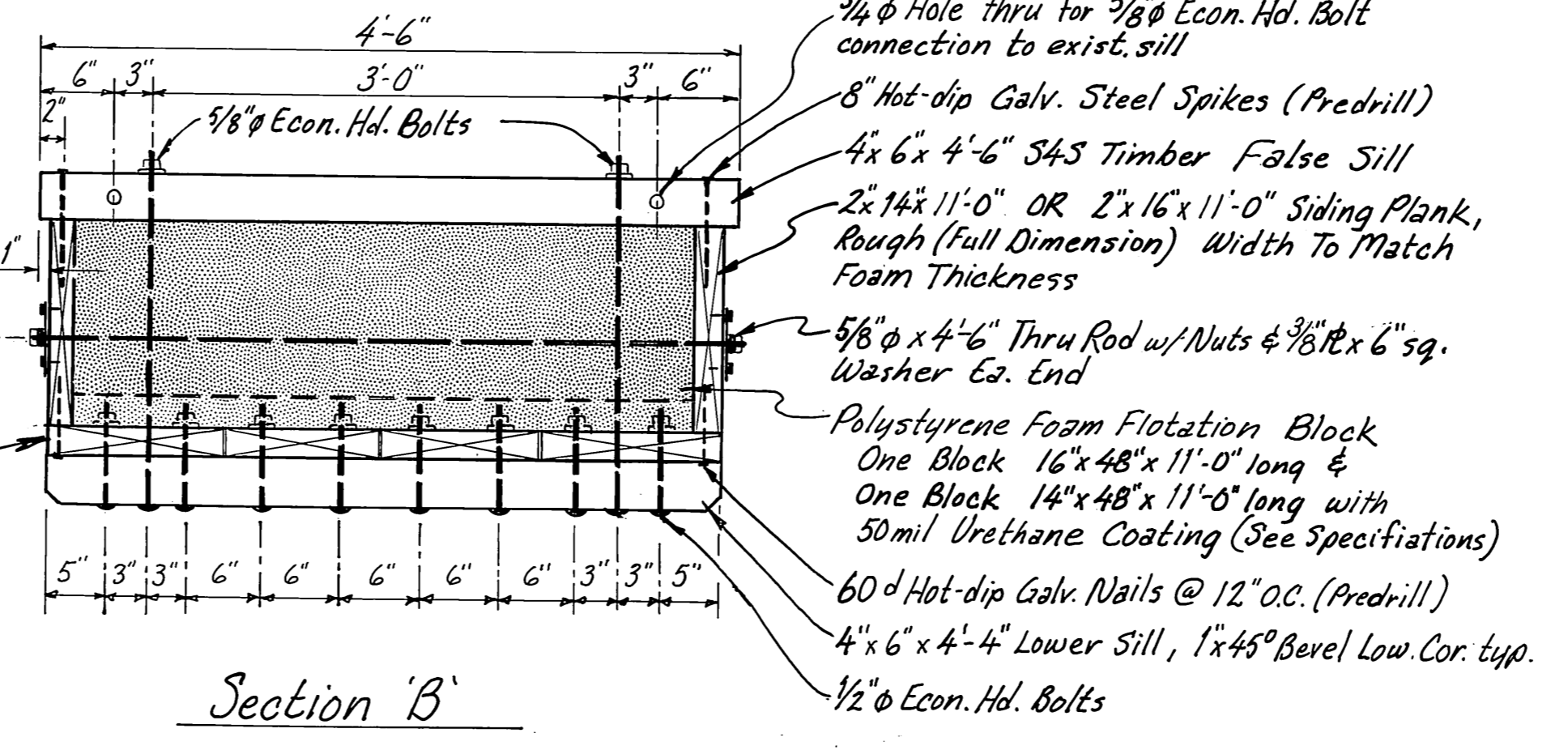
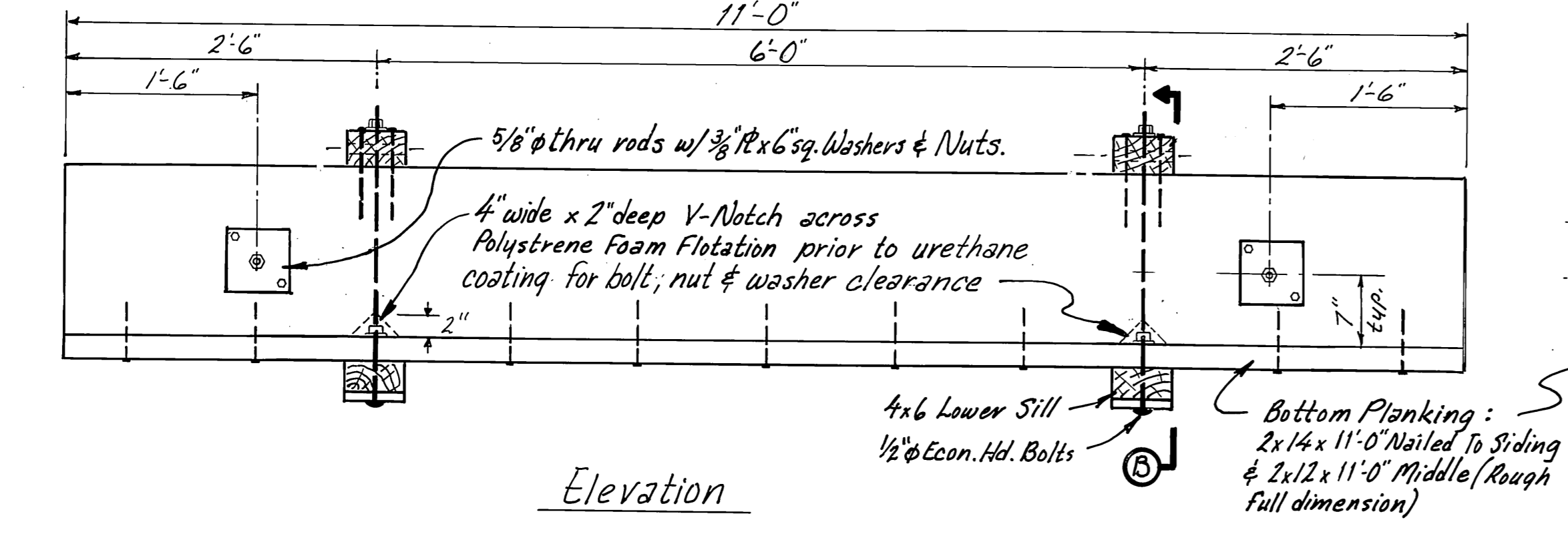
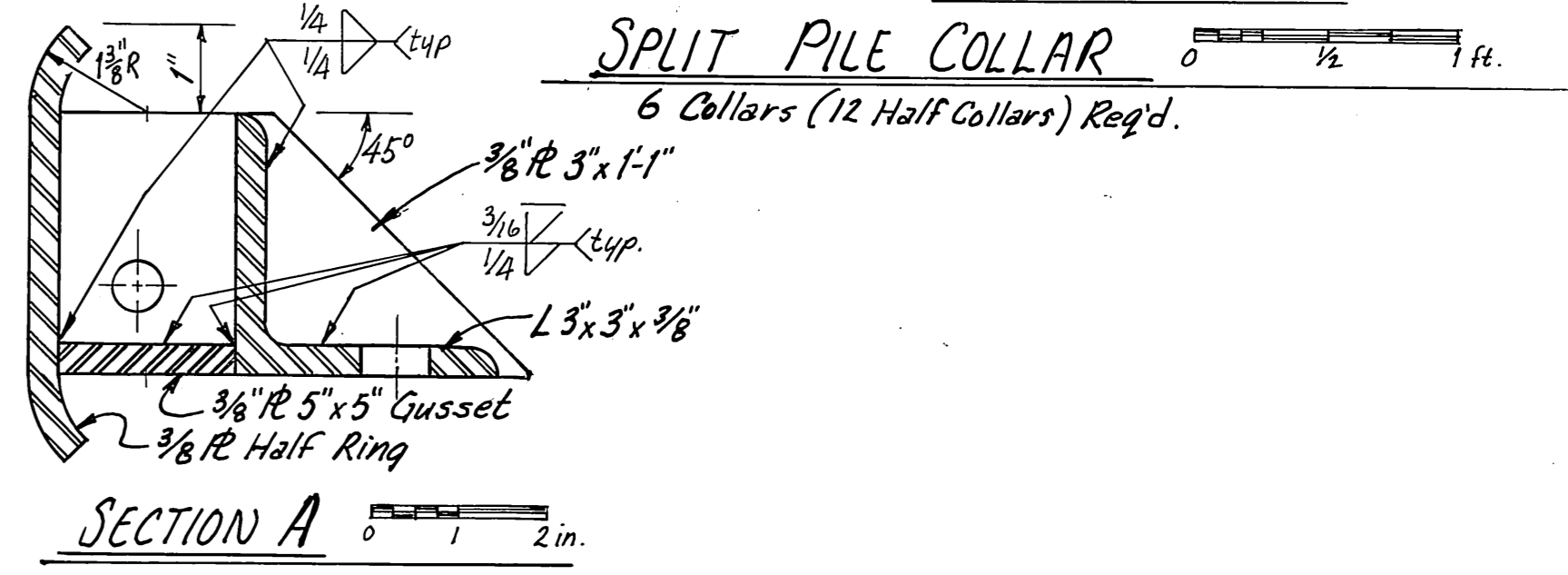
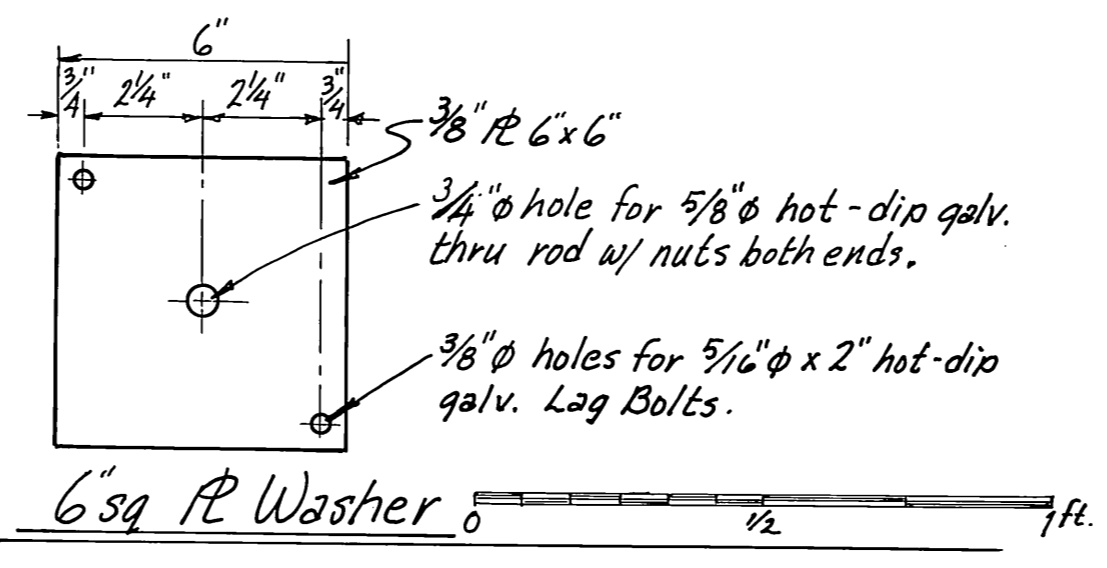
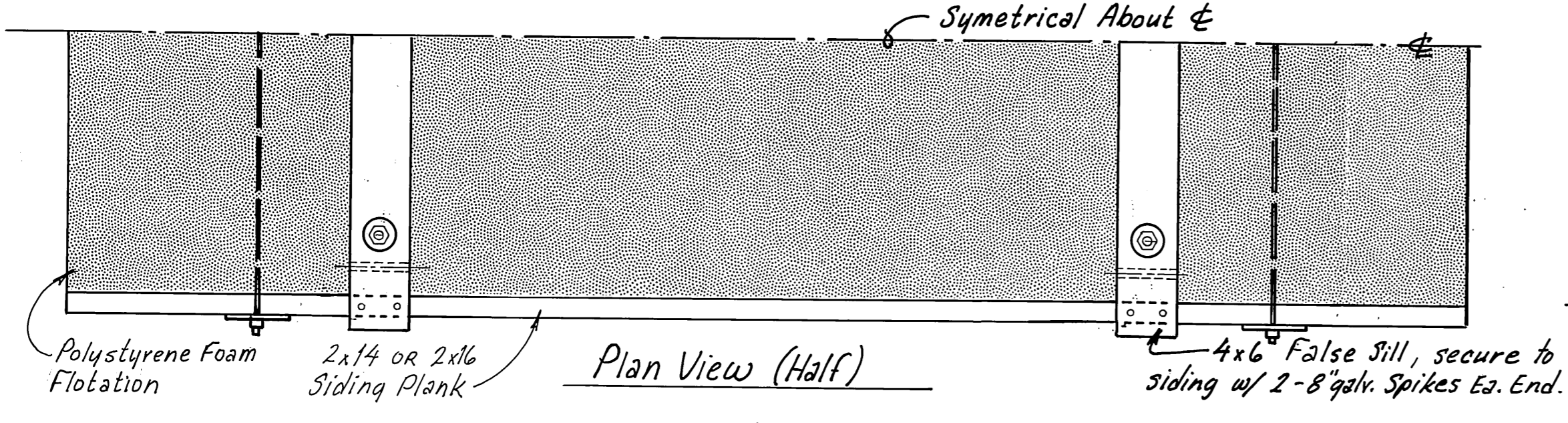
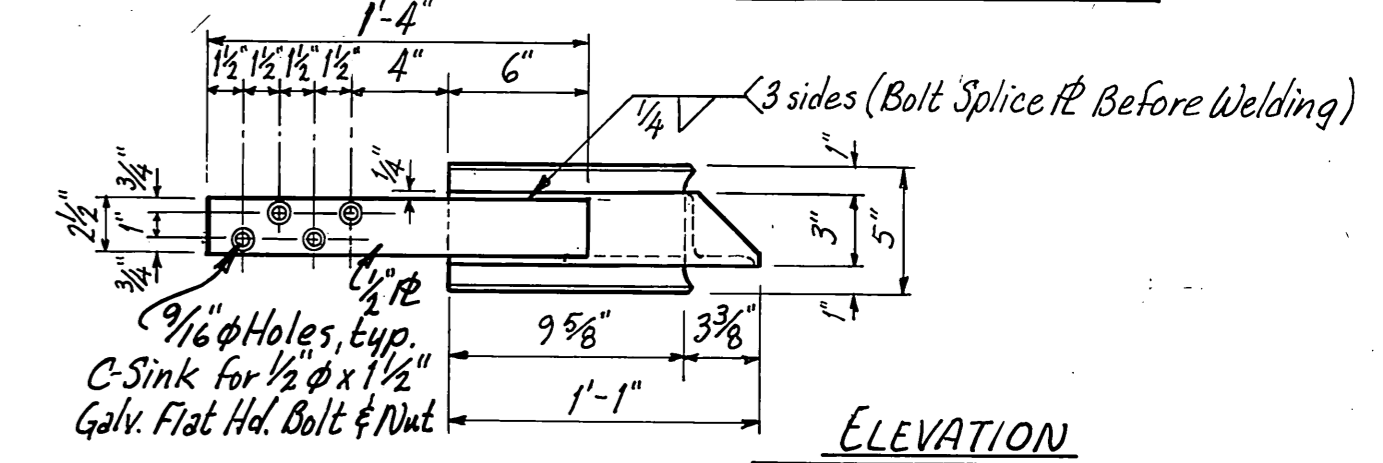
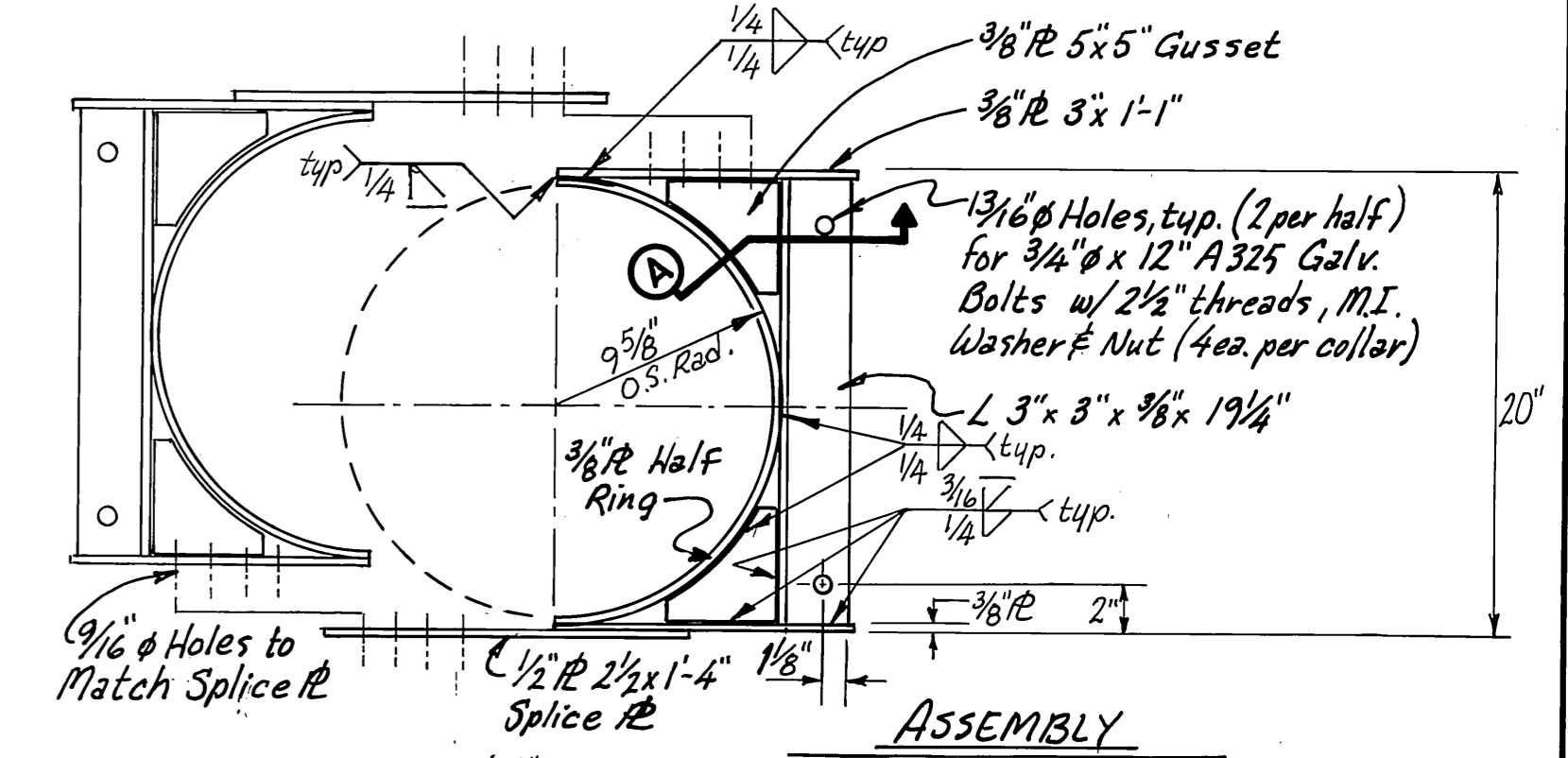
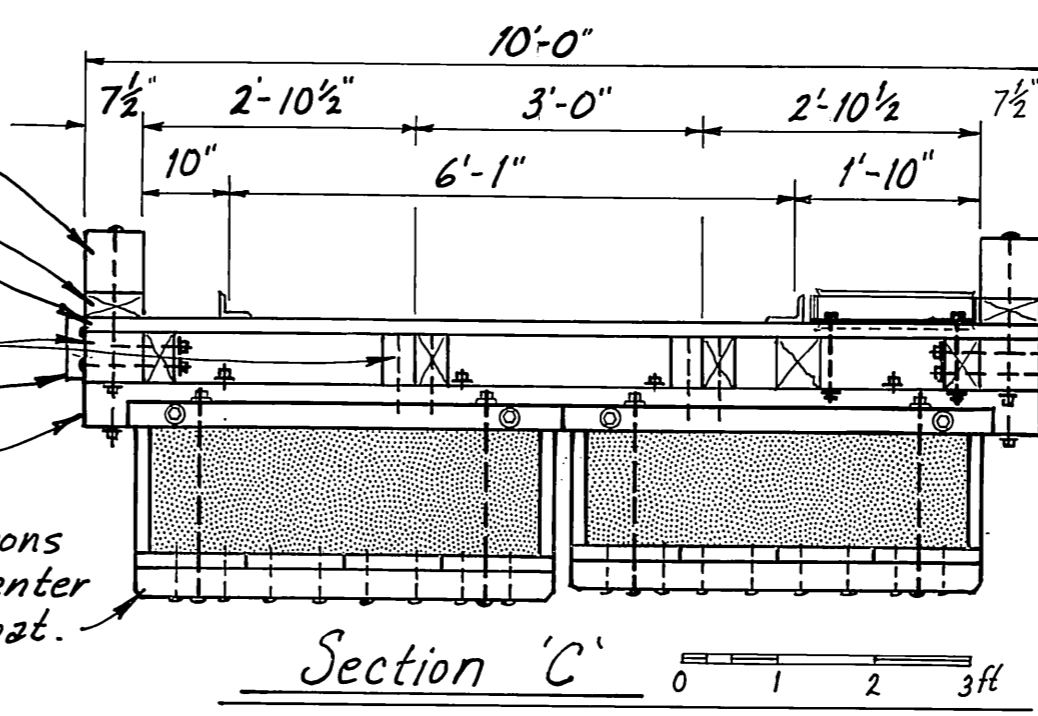
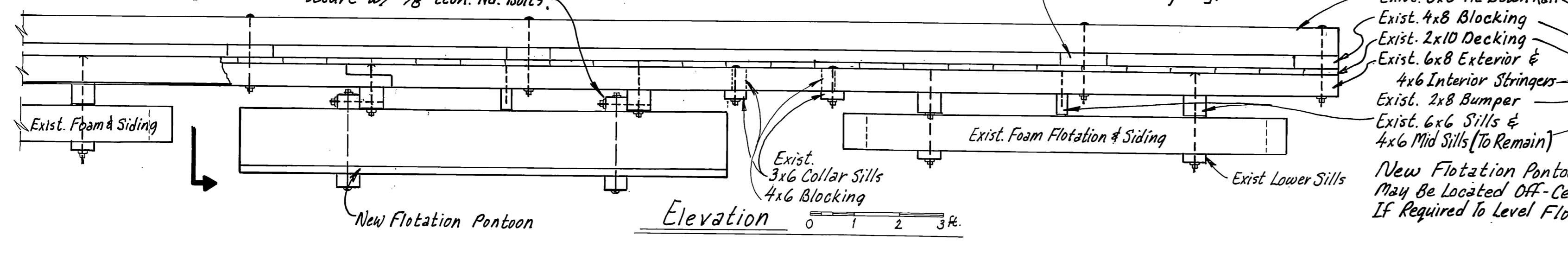


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| DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | | |
| STATE OF ALASKA | | | |
| DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KUPREANOF, (West Petersburg) | | ALASKA | |
| KUPREANOF FLOTATION REPAIRS | | | |
| DESIGNED | CHECKED JDB | DRAWN WMD | DATE |
| PROJECT NUMBER 69719 | SHEET 6 OF 10 | | |



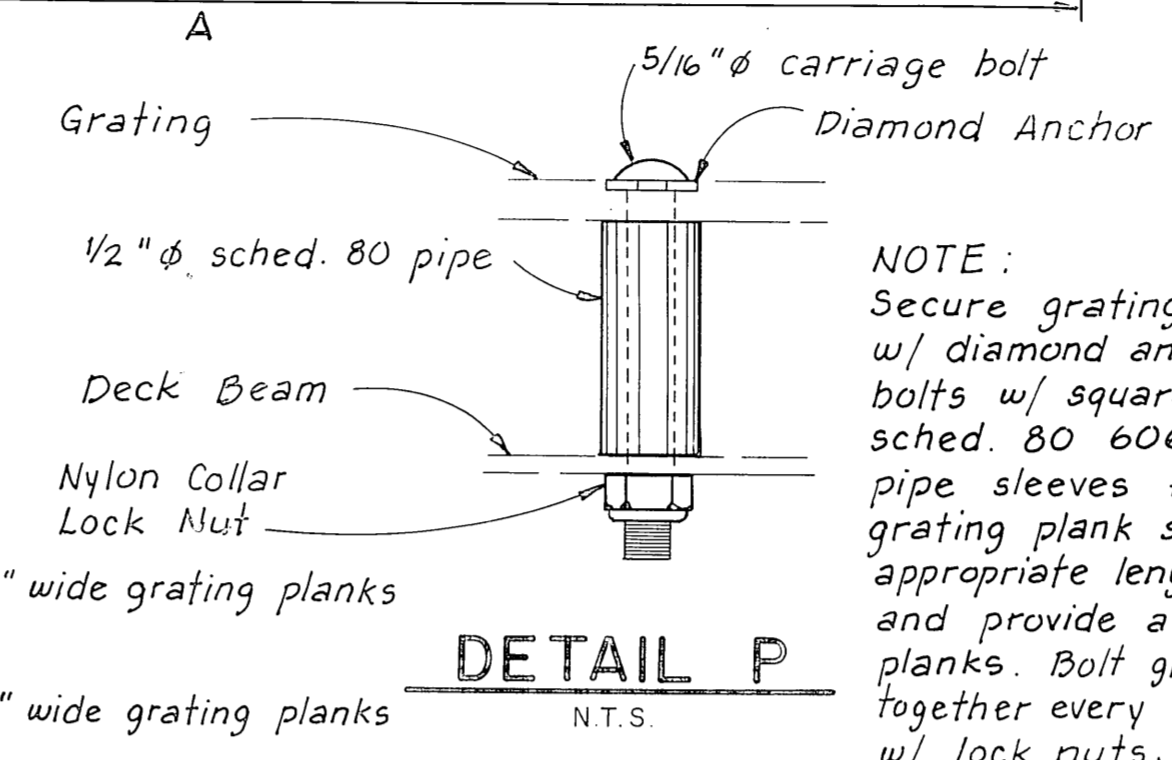
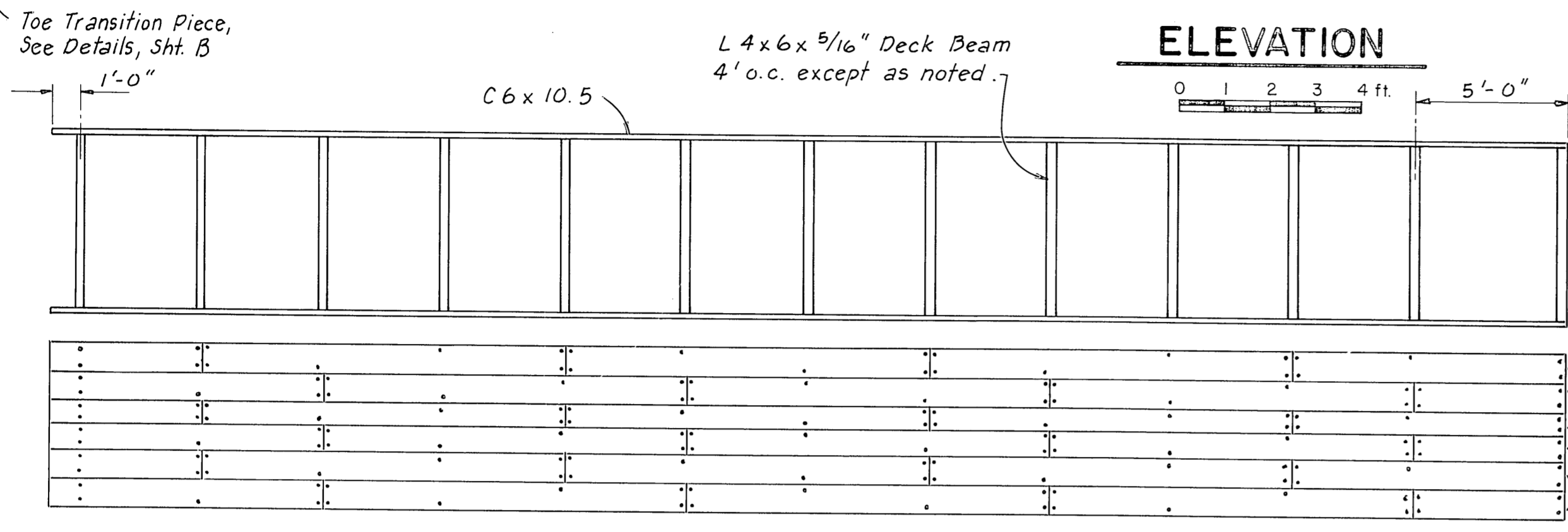
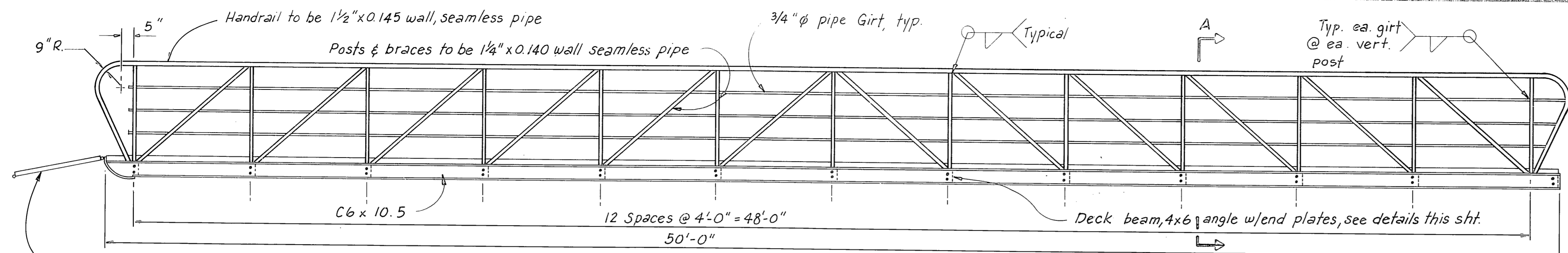
Remove & Dispose Existing Timber Gangway
Remove Exist. Foam Flotation Billets, Siding & Fasteners
Locate New Flotation Pontoons (May be located off-center to level float w/ New 6' x 50' Steel Gangway in place).
Field drill exist. 6x6 sills to match New False sills & secure w/ 5/8" Econ. Hd. Bolts.

Supply & Install 4x8 x 1'-0" Scupper Blocking 3 Locations to Replace Exist. Damaged Blocking as directed by Engineer.

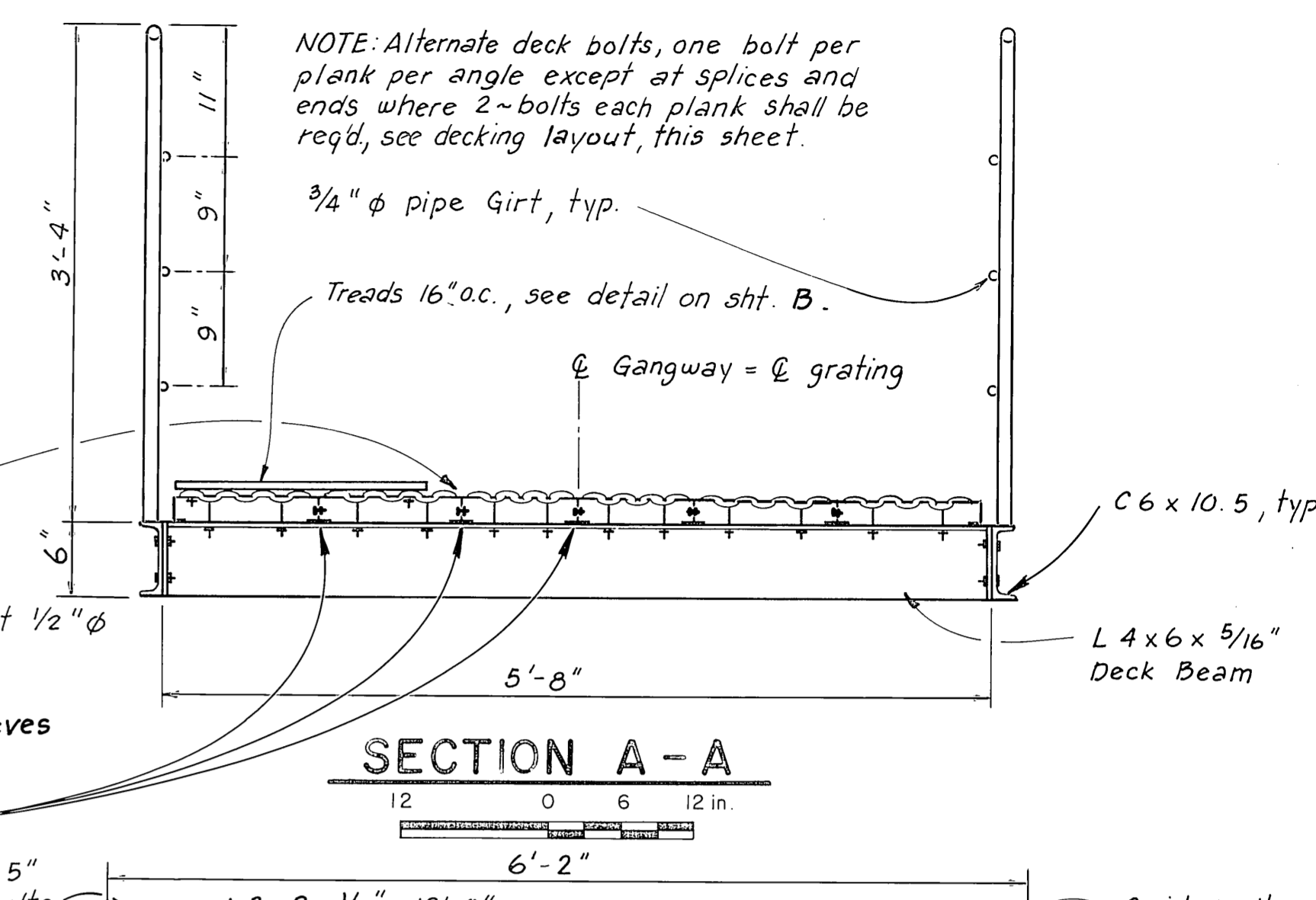


NEW FLotation Pontoons
2 Req'd.: One w/ 16" thick Foam & One w/ 14" thick Foam

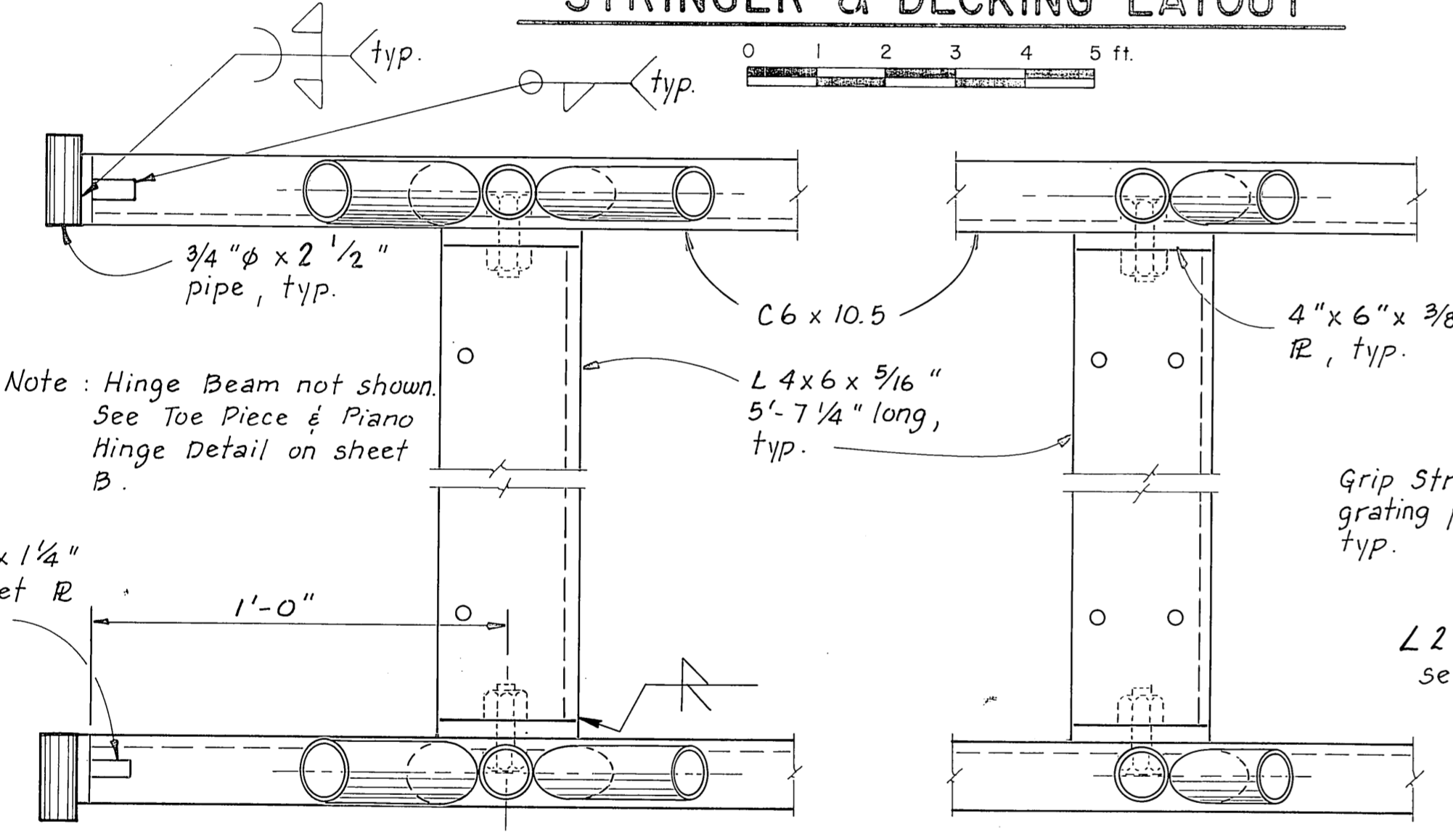
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| | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | | |
| | STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES PAPKE LANDING (PETERSBURG) ALASKA | | | |
| DESIGNED WmN | | CHECKED JDB | DRAWN WmN | DATE Sept 88 |
| PROJECT NUMBER 69719 | | SHEET 7 OF 10 | | |



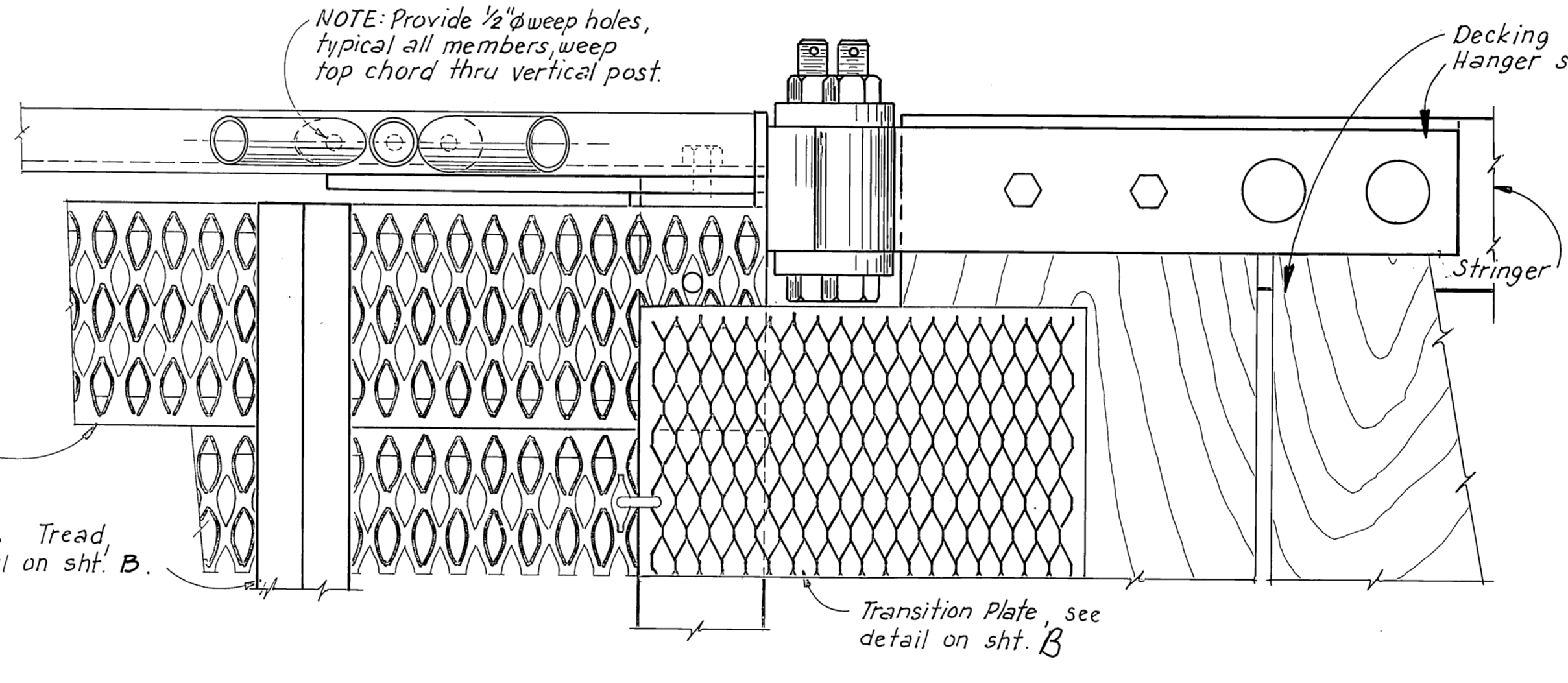
NOTE: Secure grating planks to deck beams w/ diamond anchors & 5/16" φ carriage bolts w/ square shanks & lock nuts. Field cut 1/2" φ sched. 80 6061-T6 or 6063-T6 Alum. pipe sleeves for all carriage bolts at grating plank splices, See detail P. Cut sleeves appropriate length to resist plank deflection and provide a uniform transition between planks. Bolt grating plank channels together every 2'-0" w/ 3/8" φ bolts w/ lock nuts. **Some bolts are S.S. w/ lock nuts, some are galvanized w/ double std. nuts**



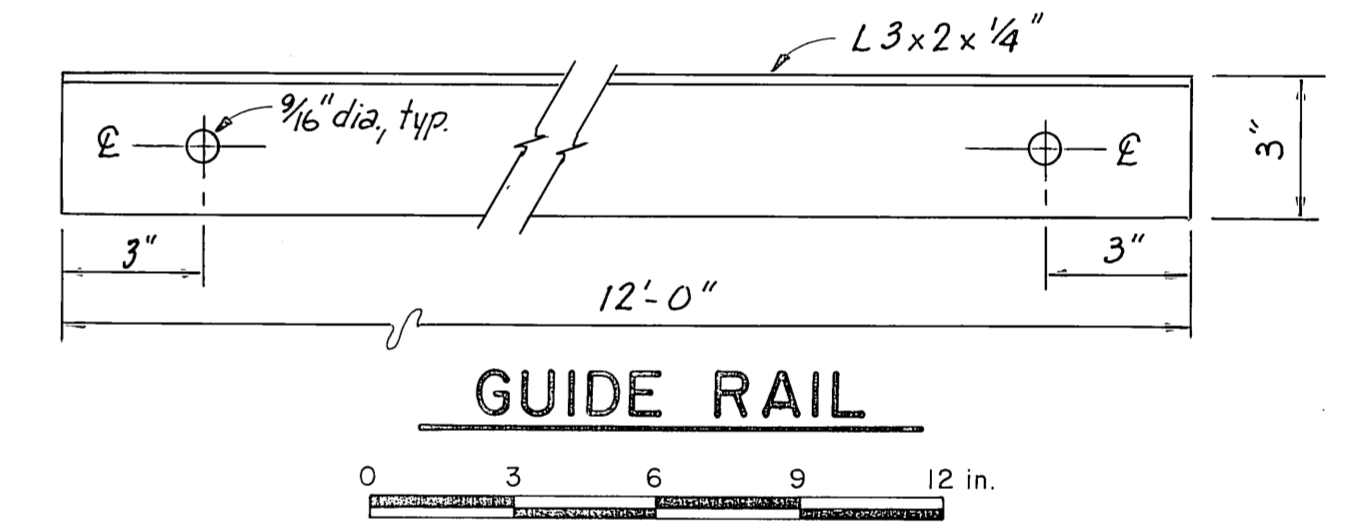
STRINGER & DECKING LAYOUT



NOTE: Provide 1/2" φ weep holes, typical all members, weep top chord thru vertical post.

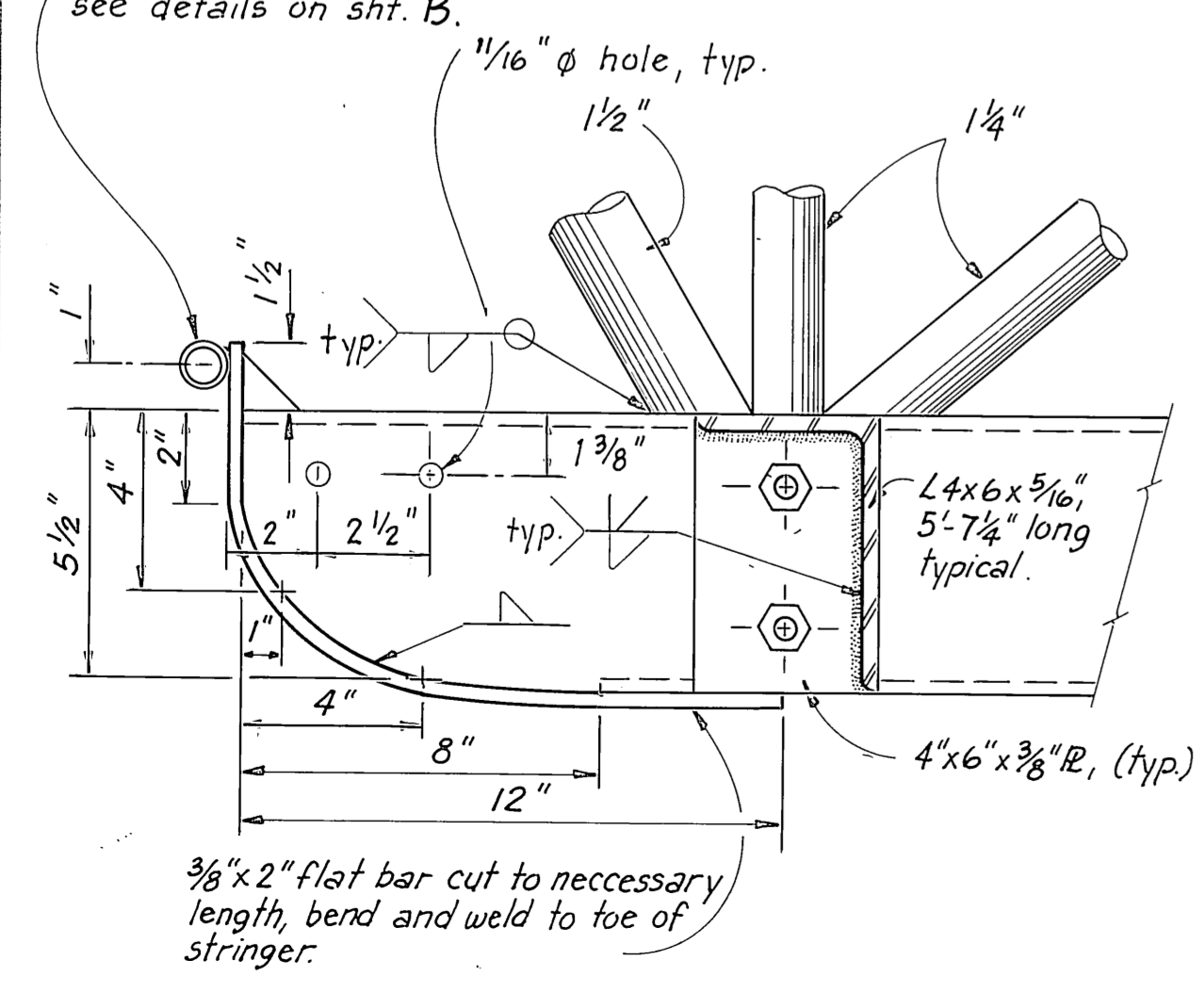


TIMBER FLOAT

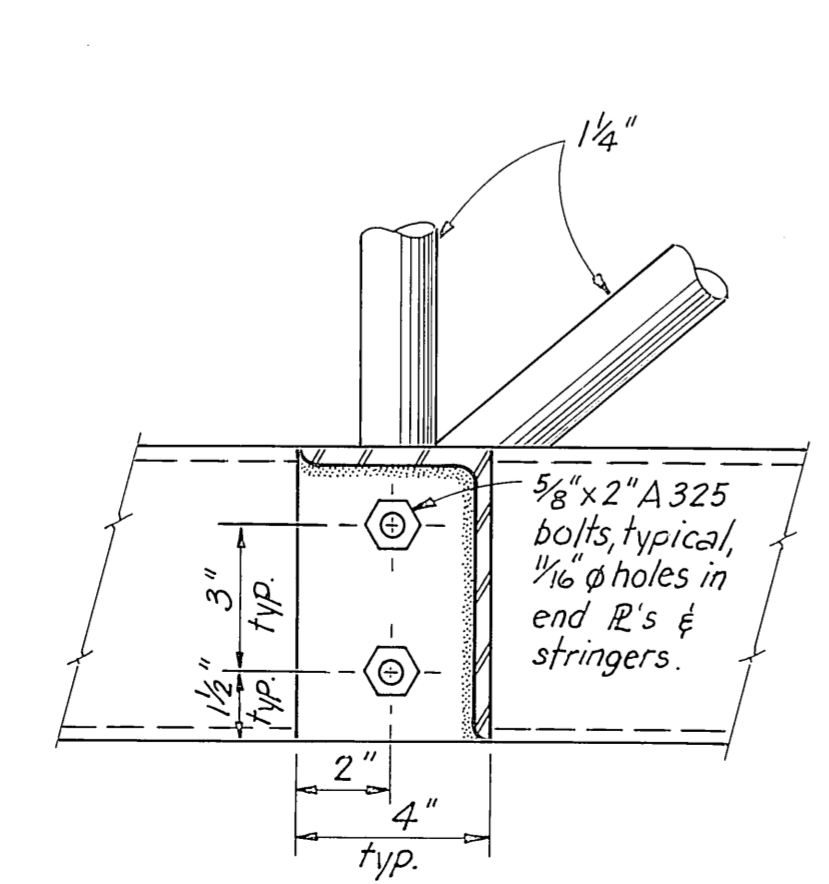


- NOTES**
1. Design load, 35 psf.
 2. All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500.
 3. All shapes & plates shall conform to ASTM A-36.
 4. Trusses shall be shop fabricated & assembled including hangers.
 5. Splices shall be held to a minimum and where necessary shall be made in a manner that will not reduce the strength of the truss.
 6. No tubing or channel splices will be permitted within 10' of the center of the truss structure.
 7. Trusses & transverse beams shall be hot dip galvanized after fabrication and in accordance with ASTM A-23, A-384, A-385 & A-386.
 8. All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM, A-153.
 9. Assembly shop drawing shall be submitted for approval.
 10. Remove existing hanger strap & bolts. Fill existing bolt holes w/ treated plugs. See specs.
 11. Splices to be detailed on shop drawings. Pipe splices to have backing sleeves.

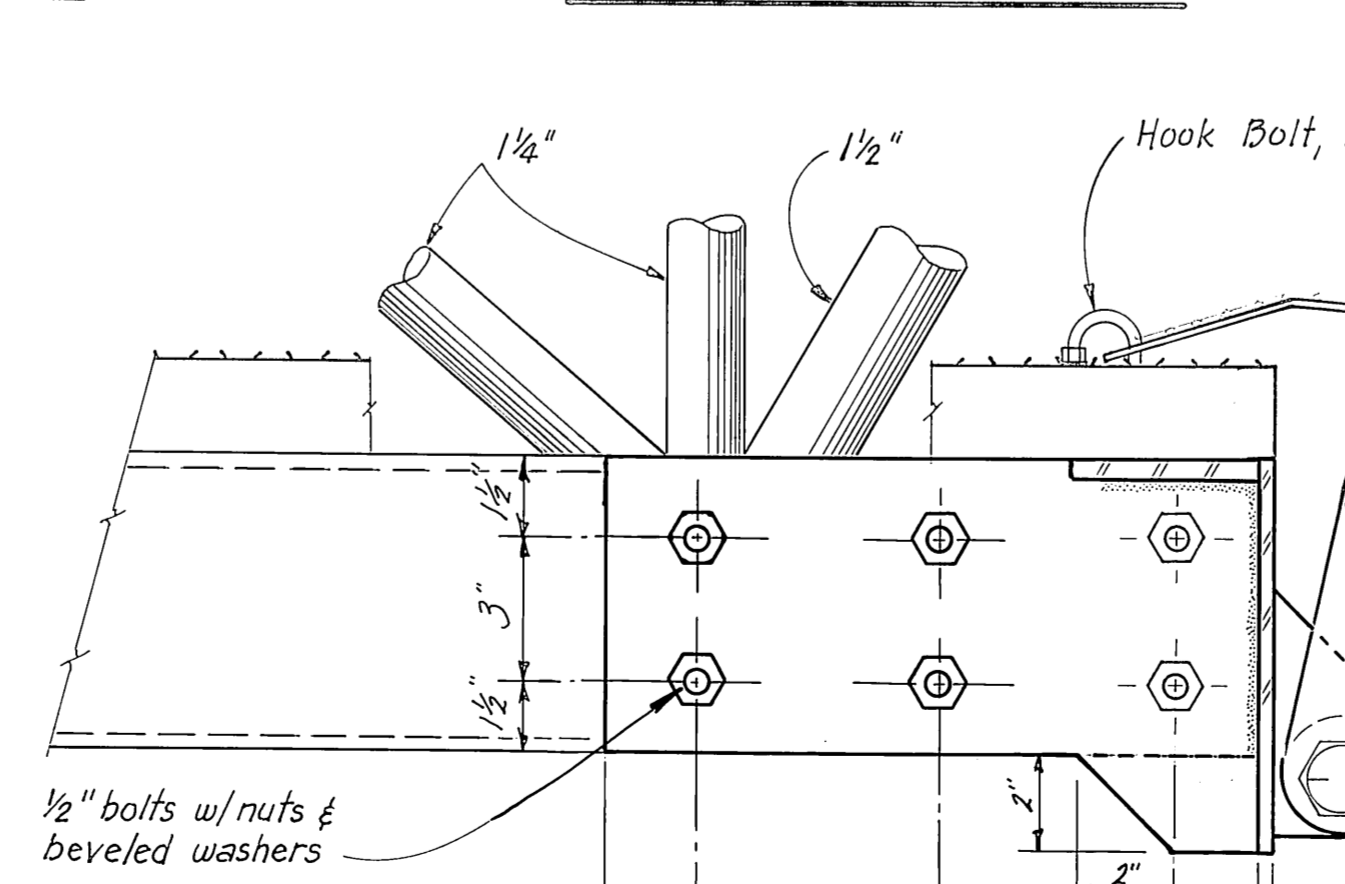
GANGWAY TOE



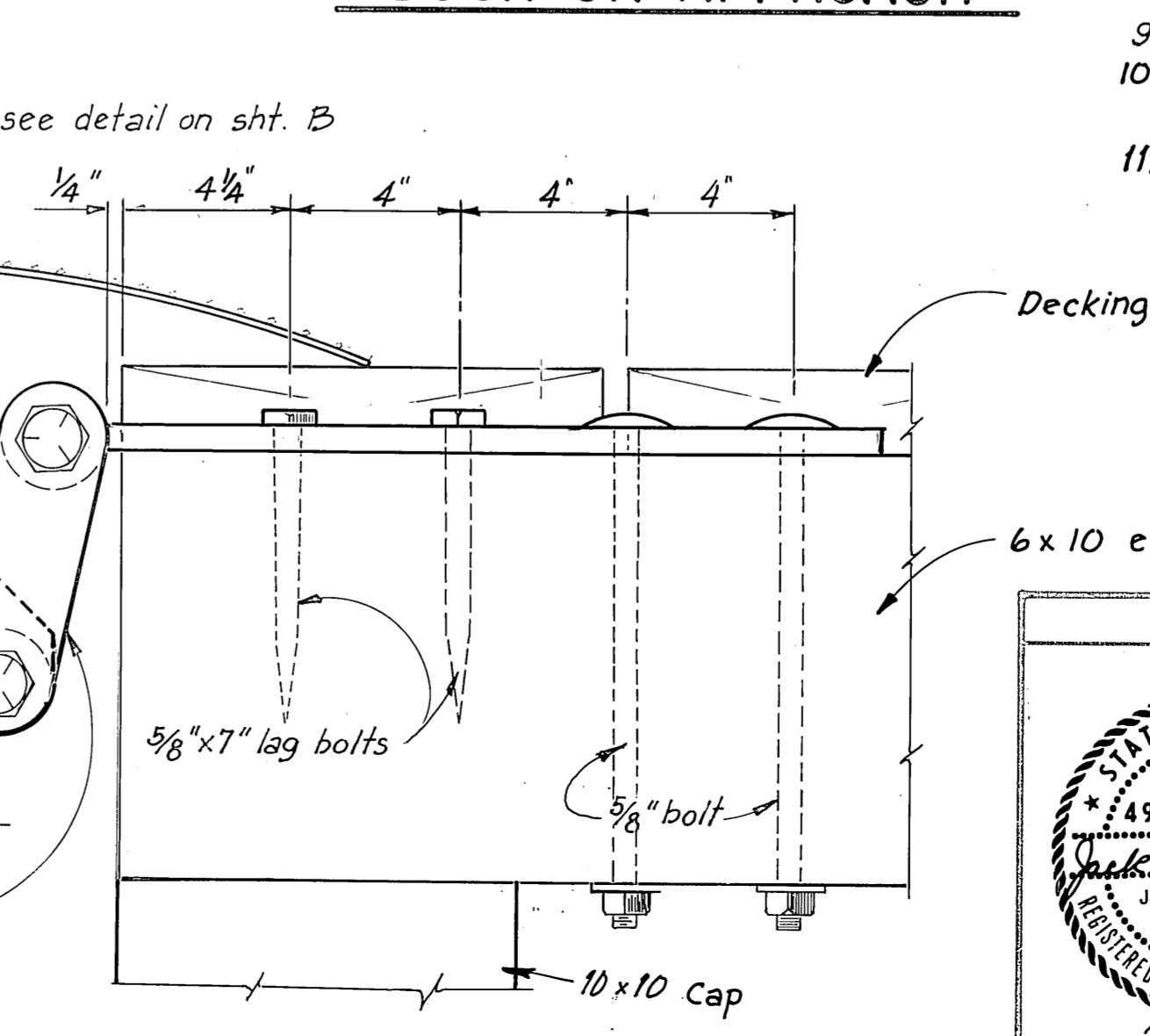
TYP. @ DECKING SPLICE



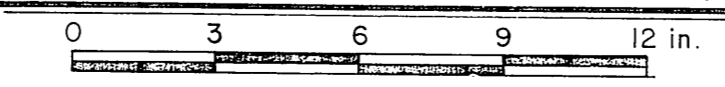
GANGWAY HEAD



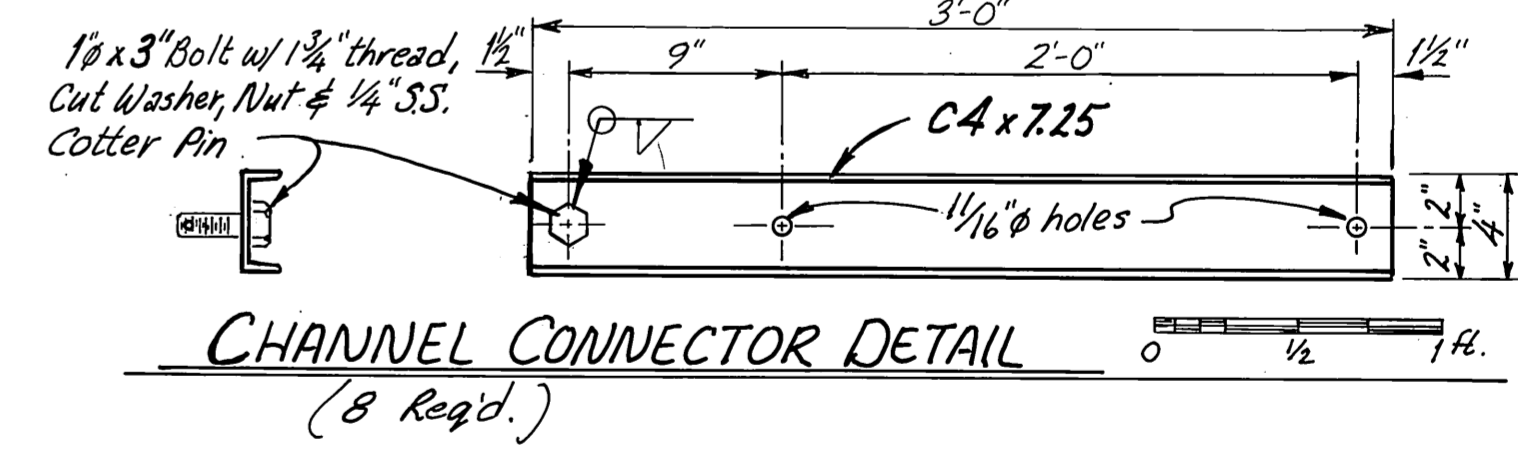
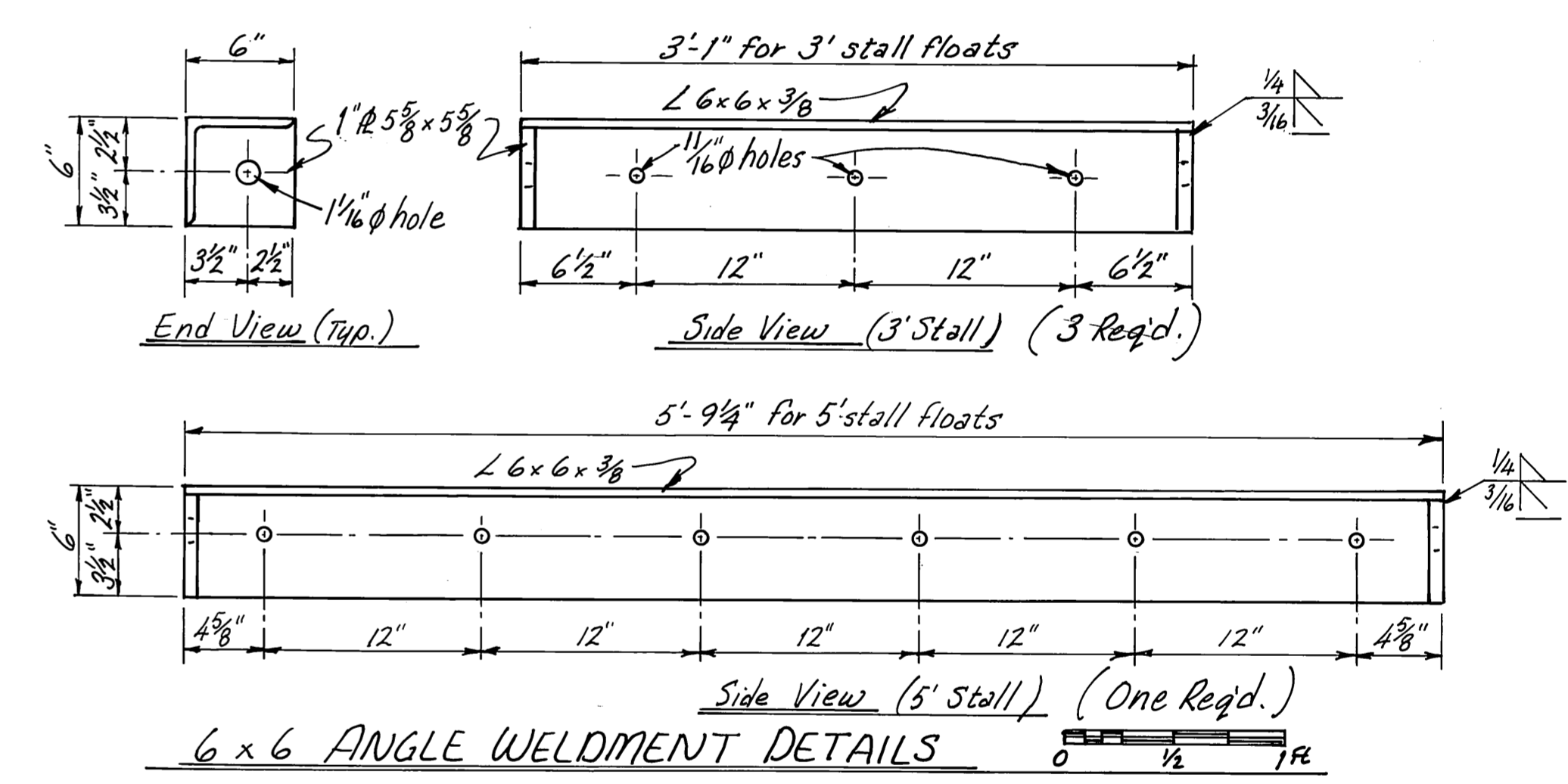
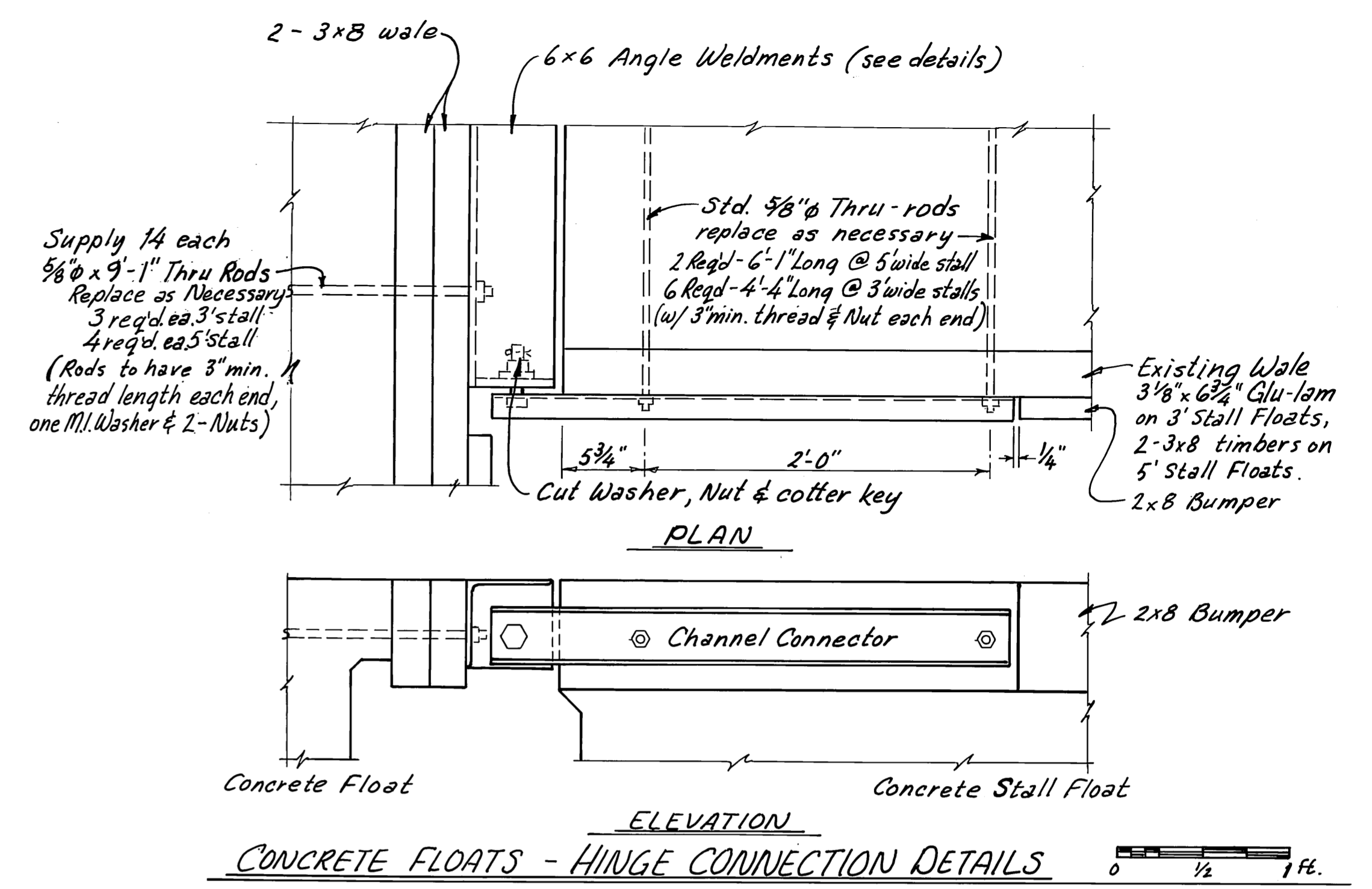
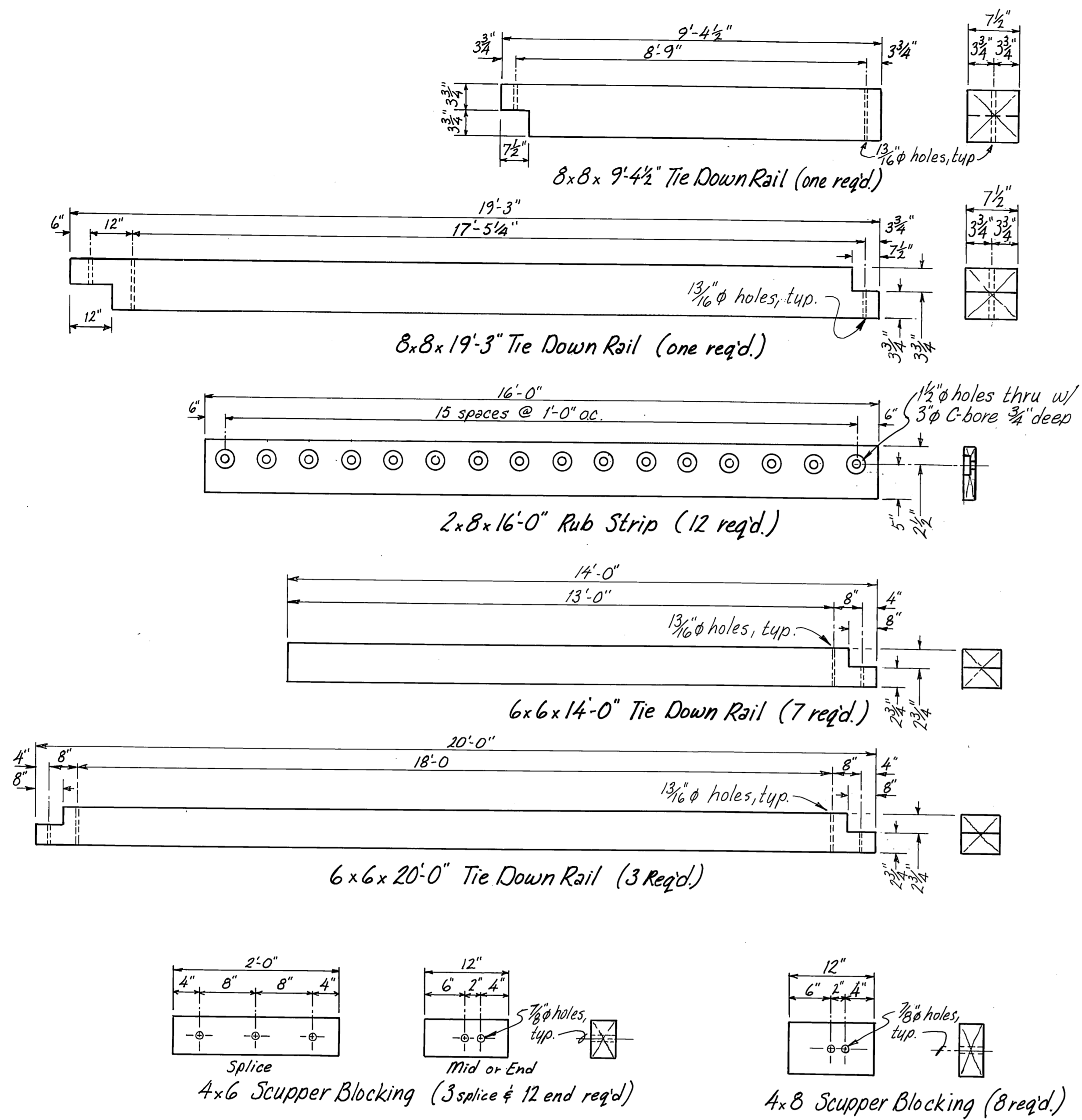
DOCK OR APPROACH



**SECTIONAL ELEVATIONS
 GANGWAY DETAILS**



| | | | |
|--------------|---------|--|-----------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| | | STATE OF ALASKA | |
| | | DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | |
| PROJECT | | ALASKA | |
| NUMBER | | NEW 6' x 50' STEEL GANGWAY | |
| | | (SHEET A) | |
| DESIGNED | CHECKED | DRAWN | DATE |
| | JDB | T.S. | OCT. 1988 |
| PROJECT | | SHEET | |
| NUMBER 69719 | | 8 OF 10 | |



NOTE:
 THESE MATERIALS ARE SUPPLIED IN ADDITION TO ANY MATERIALS CALLED OUT ON OTHER SHEETS OF THESE PLANS. THESE ITEMS SHALL BE COMPENSATED FOR UNDER PAY ITEM 306. THESE ITEMS SHALL BE DELIVERED TO THE HARBORMASTER IN PETERSBURG. This work is being bid as Supplemental "A".
 These items were installed by Contractor under a Change Order - See Note, Sheet 2.

| | | | | |
|-----------------------------|--|------------------|---------------------|--|
| STAMP | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | | |
| | STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES PETERSBURG ALASKA SUPPLY ONLY ITEMS - DETAILS & QUANT. | | | |
| DESIGNED _____ | CHECKED <u>JOB</u> | DRAWN <u>WmN</u> | DATE <u>SEPT 88</u> | |
| PROJECT NUMBER <u>69719</u> | SHEET <u>10</u> OF <u>10</u> | | | |