

# KETCHIKAN GRAVINA ISLAND

## SEAPLANE FACILITY

### AIRPORT DEVELOPMENT AID PROGRAM

A.D.A.P. NO. 6-02-0144-05

SPONSORED BY THE STATE OF ALASKA

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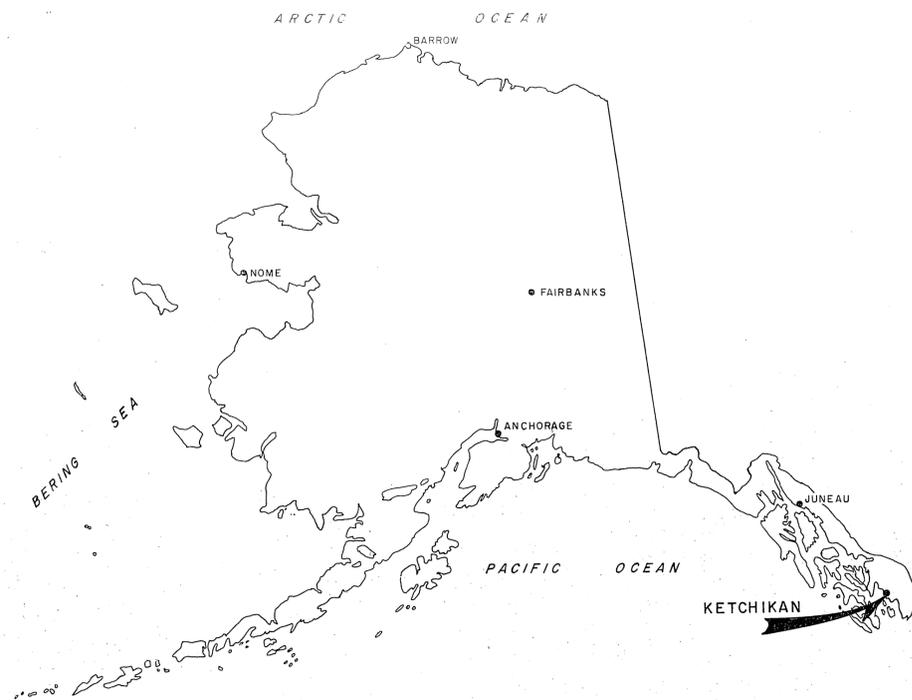
STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF AVIATION

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
ACTING DIRECTOR

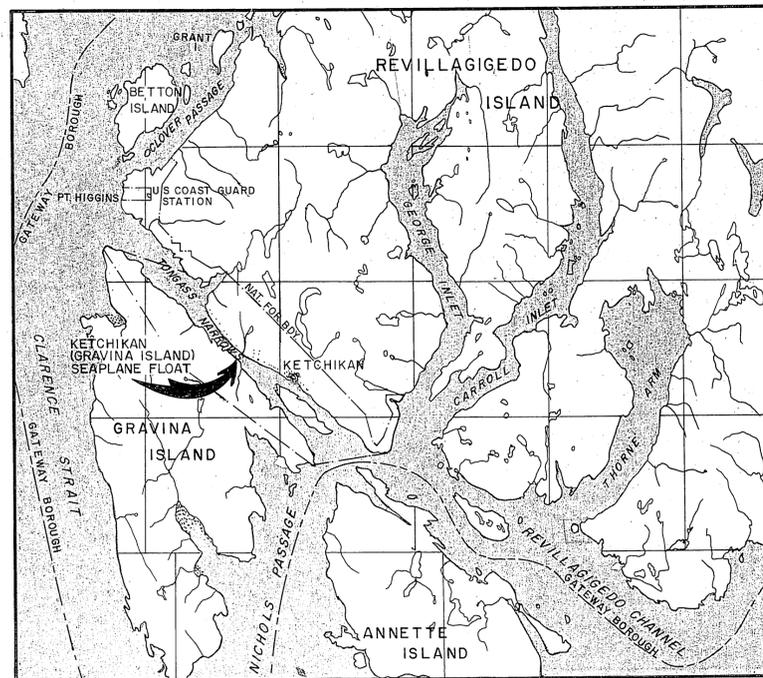
APPROVED Clayton G. Hueners DATE 3-9-78  
CLAYTON G. HUENERS CHIEF ENGINEER

APPROVED W.A. Allison DATE 3/21/78  
W.A. ALLISON, P.E. CHIEF CONSTRUCTION ENGINEER

AS - BUILT



LOCATION MAP



VICINITY MAP

SCALE 1" = 4 MILES

FINAL QUANTITIES

NO.	ITEM	QUANTITY	UNIT
1.	SEAPLANE FLOAT (HEXAGONAL)	7,020	Sq.Ft.
2.	APPROACH FLOAT	500	Sq.Ft.
3.	APPROACH STRUCTURE (Including stairs)	868.5	Sq.Ft.
4.	WOOD PILES (CLASS - A)	98	Lin. Ft.
5.	STEEL PIPE PILES (Grade 3)	326.9	Lin. Ft.
6.	STEEL GANGWAY	One Job	Lump Sum
7.	ROCK SOCKETING	82.35	Lin. Ft.
ADDITIVE ALTERNATE NO. 1			
AA-1	LIGHTING	One Job	Lump Sum

INDEX

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STATE OF ALASKA  
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KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
LOCATION & VICINITY MAPS,  
INDEX & ESTIMATED QUANTITIES

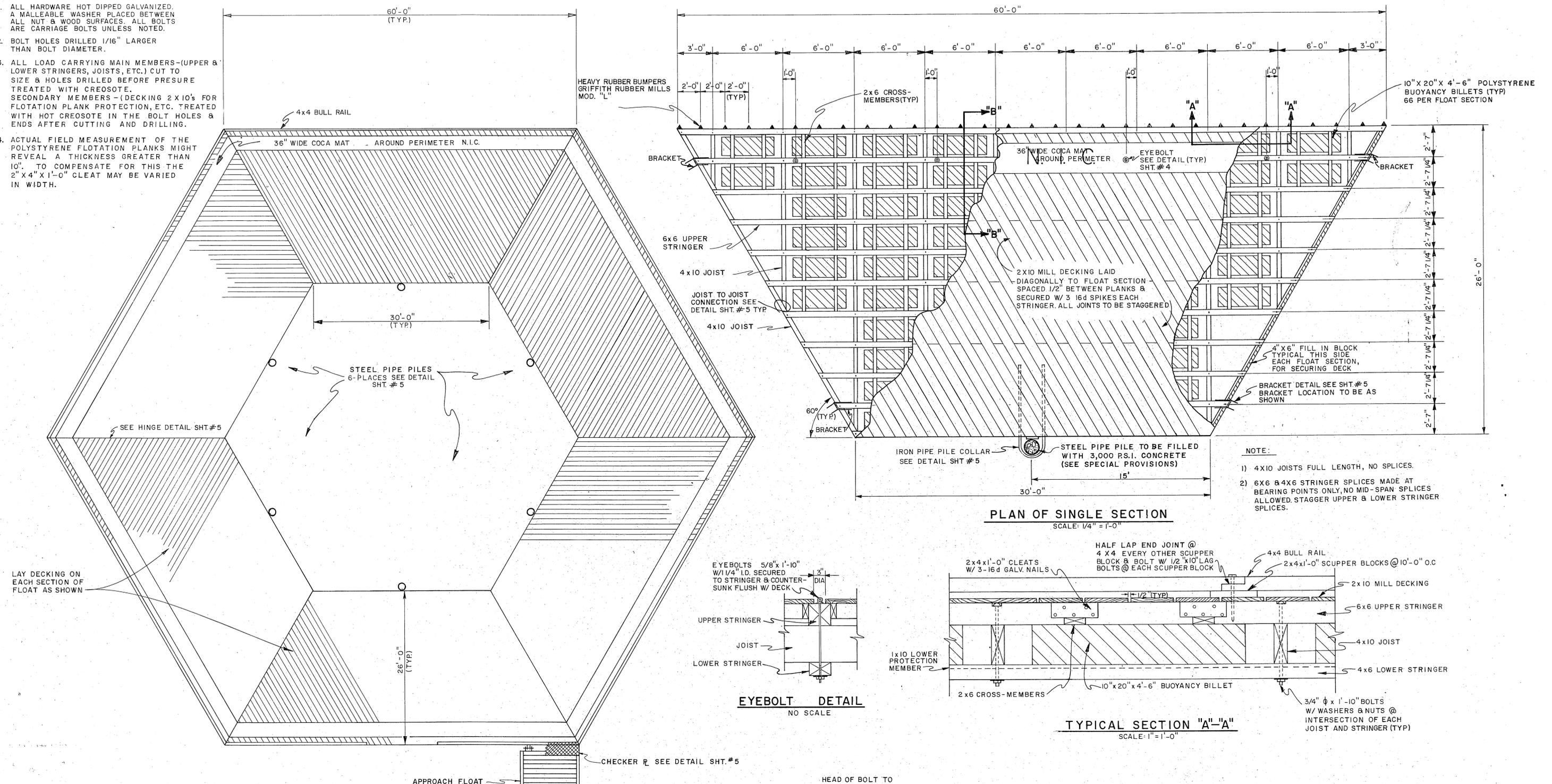
APPROVED *James J. Rhode*  
JAMES J. RHODE P.E. CHIEF DESIGN ENGINEER  
APPROVED *William Koester*  
WILLIAM KOESTER P.E. SECONDARY AIRPORTS ENGINEER

BY	DATE	REVISIONS	SCALE	DESIGNED	CHECKED	DRAWN	DATE	SHEET
A	3/2/78	AS-BUILT	AS SHOWN	WJK	WJK	WJK	8/25/76	2 OF 12



**NOTES:**

1. ALL HARDWARE HOT DIPPED GALVANIZED. A MALLEABLE WASHER PLACED BETWEEN ALL NUT & WOOD SURFACES. ALL BOLTS ARE CARRIAGE BOLTS UNLESS NOTED.
2. BOLT HOLES DRILLED 1/16" LARGER THAN BOLT DIAMETER.
3. ALL LOAD CARRYING MAIN MEMBERS-(UPPER & LOWER STRINGERS, JOISTS, ETC.) CUT TO SIZE & HOLES DRILLED BEFORE PRESURE TREATED WITH CREOSOTE. SECONDARY MEMBERS-(DECKING 2x10's FOR FLOTATION PLANK PROTECTION, ETC. TREATED WITH HOT CREOSOTE IN THE BOLT HOLES & ENDS AFTER CUTTING AND DRILLING.
4. ACTUAL FIELD MEASUREMENT OF THE POLYSTYRENE FLOTATION PLANKS MIGHT REVEAL A THICKNESS GREATER THAN 10". TO COMPENSATE FOR THIS THE 2"x4"x1'-0" CLEAT MAY BE VARIED IN WIDTH.



- NOTE:**
- 1) 4x10 JOISTS FULL LENGTH, NO SPLICES.
  - 2) 6x6 & 4x6 STRINGER SPLICES MADE AT BEARING POINTS ONLY, NO MID-SPAN SPLICES ALLOWED. STAGGER UPPER & LOWER STRINGER SPLICES.

LUMBER LIST			
ITEM	GRADE	DRESSING	CREOSOTE TREAT.
6x6 STRINGER - UPPER	CONSTRUCTION	S4S	8 LBS. RET.
4x6 STRINGER - LOWER	CONSTRUCTION	ROUGH	8 LBS. RET.
4x10 JOISTS	CONSTRUCTION	ROUGH	8 LBS. RET.
4x4 BULL-RAIL	CONSTRUCTION	S4S	8 LBS. RET.
1x10 MEMBERS	CONSTRUCTION	ROUGH	8 LBS. RET.
2x6 MEMBERS	CONSTRUCTION	ROUGH	8 LBS. RET.
MISC. NAILING STRIPS (2x4)	CONSTRUCTION	ROUGH	8 LBS. RET.
2x10 SKIRTING	CONSTRUCTION	ROUGH	8 LBS. RET.
1x10 MILL DECKING	CONSTRUCTION	S1S2E	8 LBS. RET.

**PLAN**  
SCALE: 1/8" = 1'-0"

**TYPICAL SECTION "A"-A"**  
SCALE: 1" = 1'-0"

**EYEBOLT DETAIL**  
NO SCALE

**TYPICAL SECTION "B"-B"**  
SCALE: 1" = 1'-0"

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**STATE OF ALASKA**  
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**DIVISION OF AVIATION**

**KETCHIKAN (GRAVINA ISLAND)**  
**SEAPLANE FLOAT**  
**PLAN & TYPICAL SECTIONS**

APPROVED: *[Signature]*  
JAMES J. RHODE, P.E. CHIEF DESIGN ENGINEER

APPROVED: *[Signature]*  
WILLIAM KOESTER, P.E. SECONDARY AIRPORTS ENGINEER

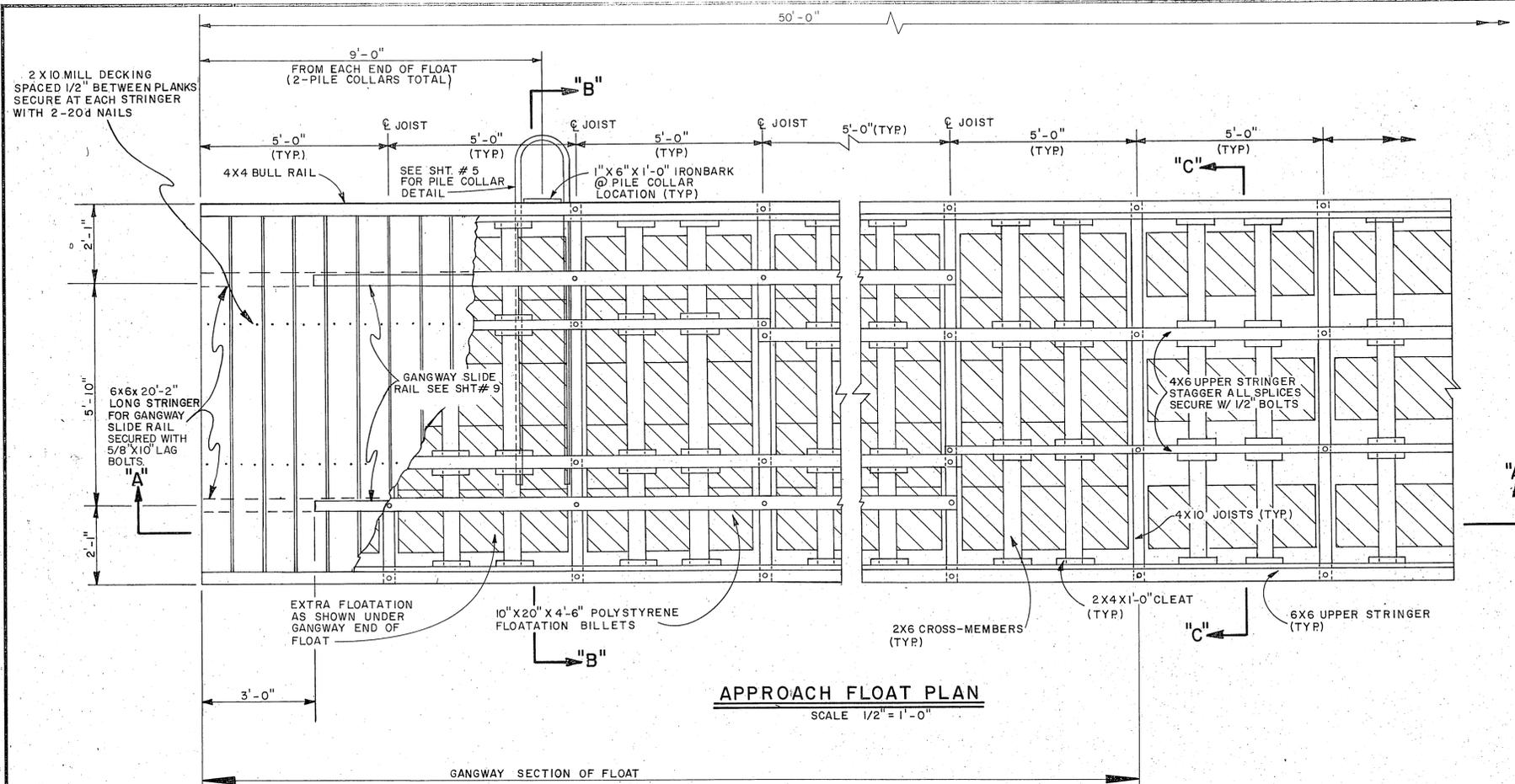
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SCALE: AS SHOWN

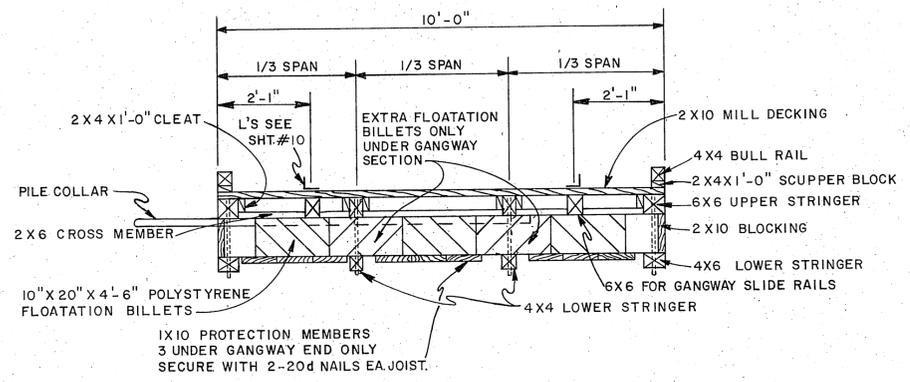
DESIGNED: *[Signature]* DRAWN: *[Signature]* CHECKED: *[Signature]* DATE: 8/25/76

SHEET 4 OF 12

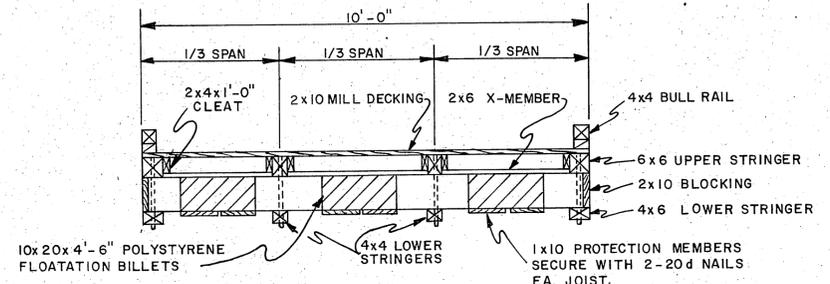




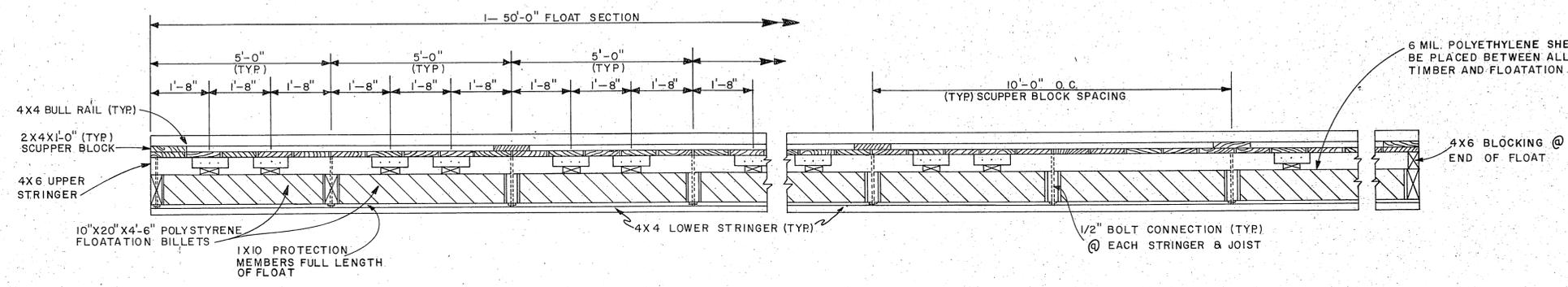
**APPROACH FLOAT PLAN**  
SCALE: 1/2" = 1'-0"



**SECTION "B"- "B"**  
SCALE: 1/2" = 1'-0"



**SECTION "C"- "C"**  
SCALE: 1/2" = 1'-0"



**SECTION "A"- "A"**  
SCALE: 1/2" = 1'-0"

- NOTES:**
- LUMBER LIST SAME AS HEXAGON SEAPLANE FLOAT
  - 4"x4" BULL RAIL SHALL HAVE S4S DRESSING & CREOSOTE TREATMENT OF 8 LBS RET
  - WHERE NOT SPECIFIED ON THIS PLAN, FASTENINGS SHALL BE SIMILAR TO THOSE IN THE HEXAGON SEAPLANE FLOAT.

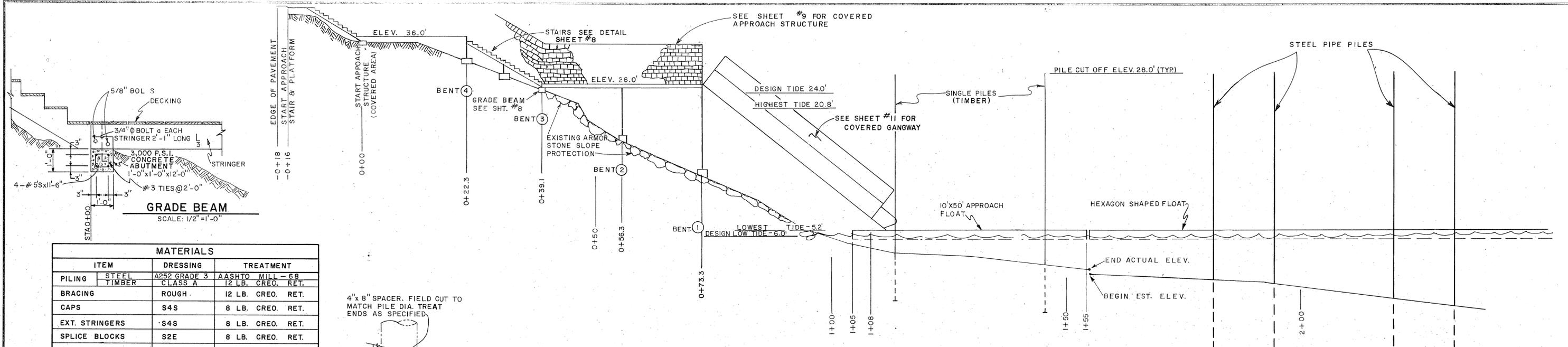
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KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
TYPICAL APPROACH FLOAT & DETAILS

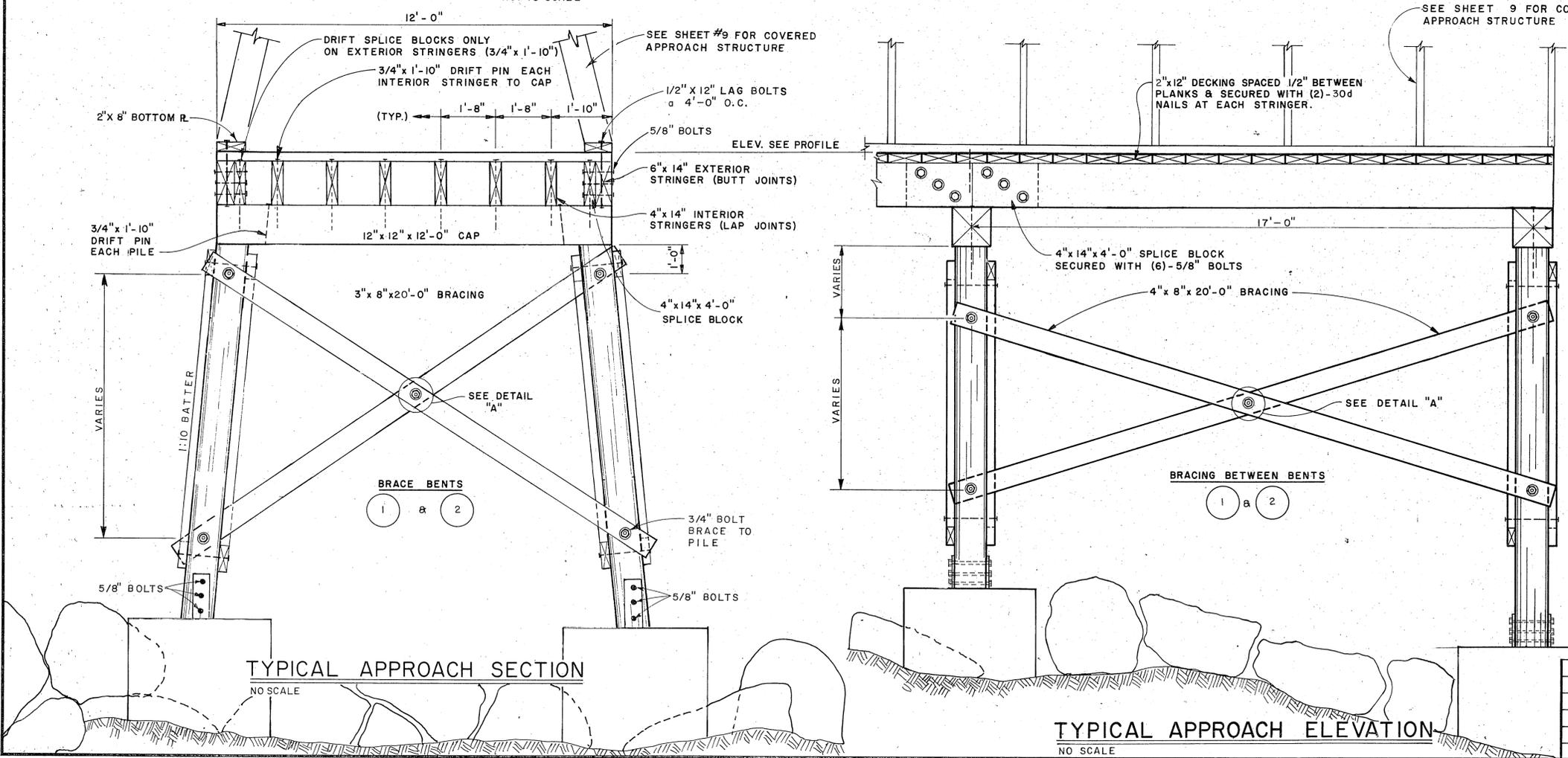
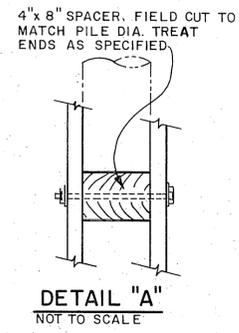
APPROVED	<i>[Signature]</i>	CHIEF DESIGN ENGINEER
APPROVED	JAMES J. RHODE, P.E.	
APPROVED	<i>[Signature]</i>	SECONDARY AIRPORTS ENGINEER
APPROVED	WILLIAM KOESTER, P.E.	
BY	DATE	SCALE
AS-BUILT	3/21/78	AS SHOWN
CHANGE		CHECKED
REVISIONS		DATE
		8/25/78

SHEET 6 OF 12



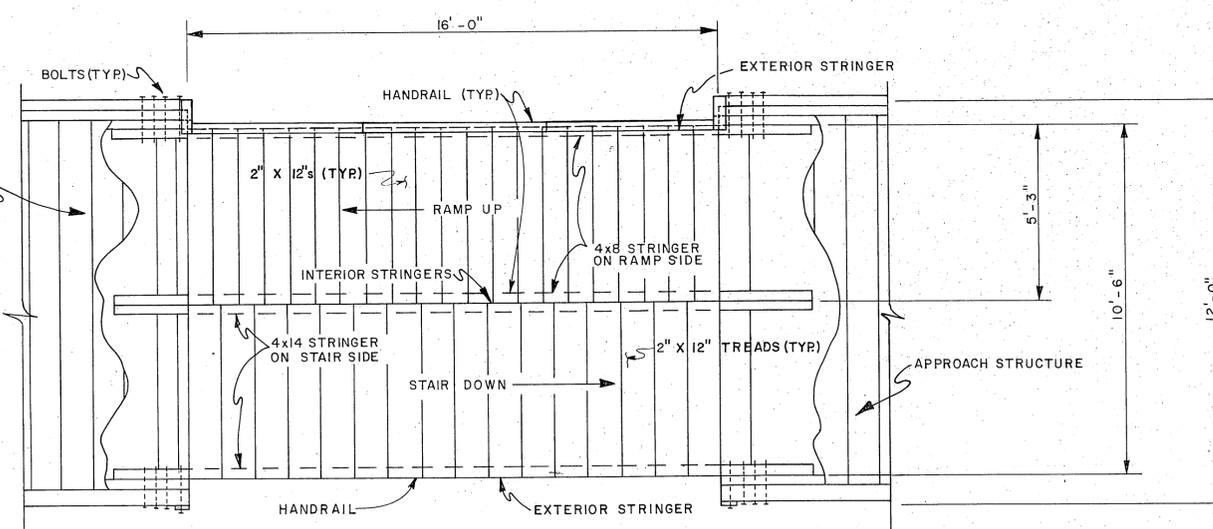
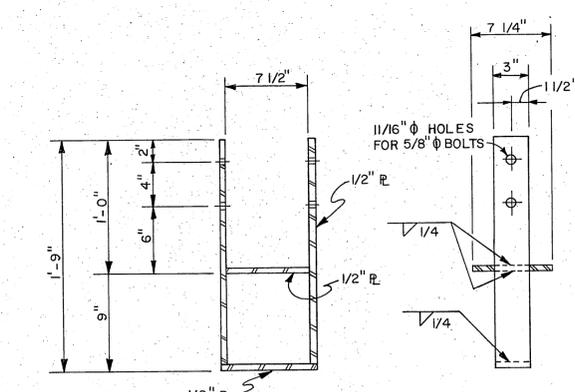
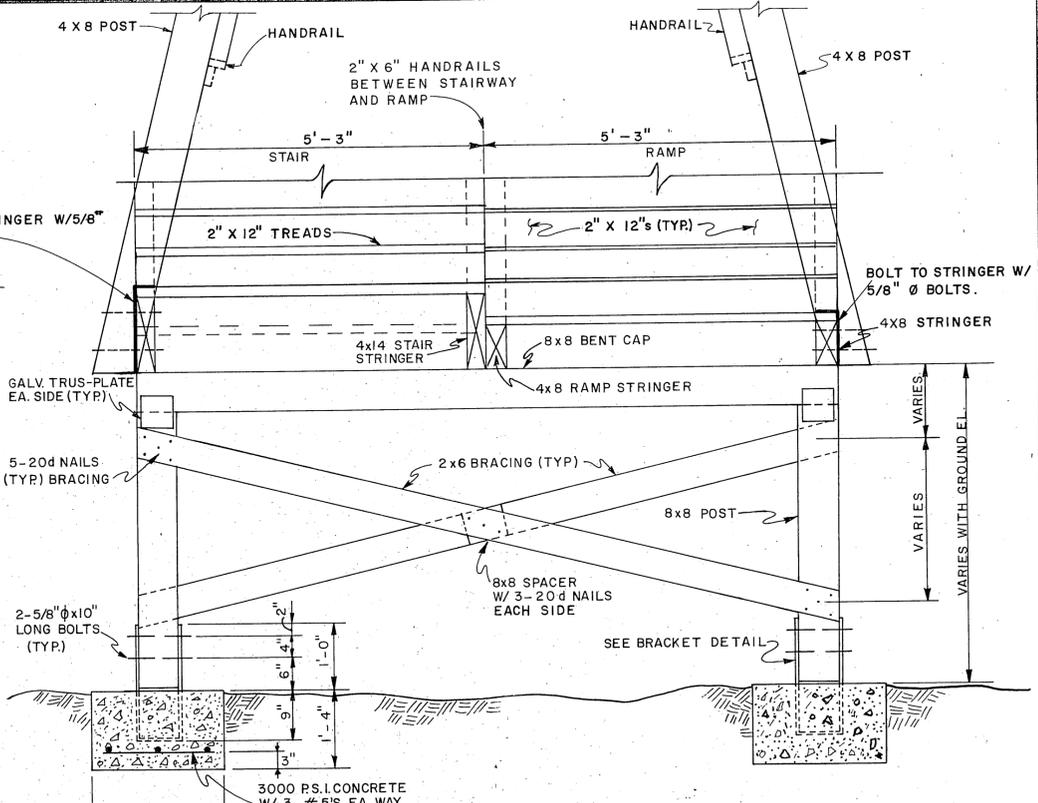
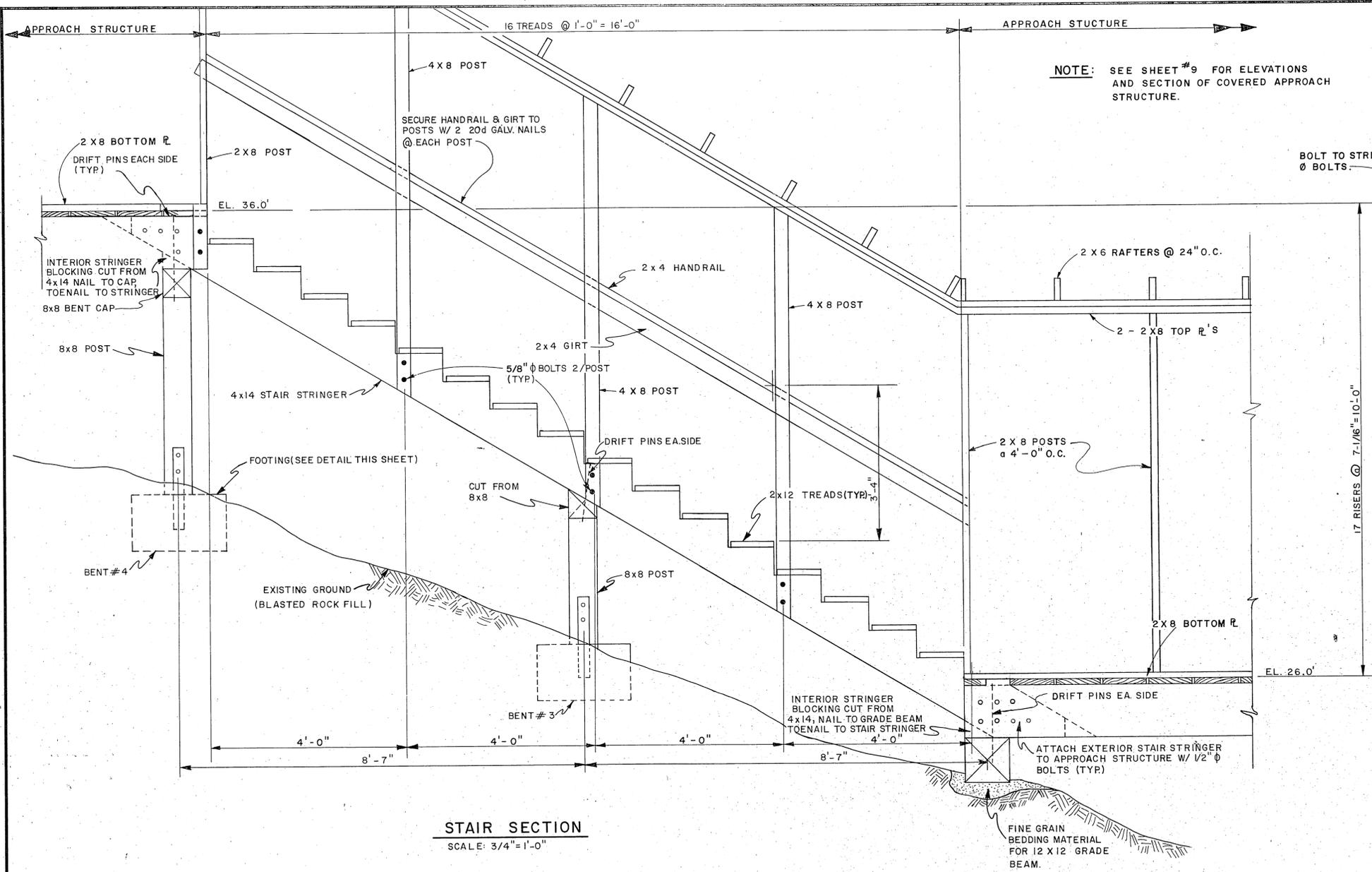
PROFILE  
SCALE 1" = 10'-0"

MATERIALS		
ITEM	DRESSING	TREATMENT
PILING	STEEL	A252 GRADE 3
	TIMBER	CLASS A
BRACING	S4S	8 LB. CREO. RET.
	S2E	8 LB. CREO. RET.
EXT. STRINGERS	S4S	8 LB. CREO. RET.
SPLICE BLOCKS	S2E	8 LB. CREO. RET.
INT. STRINGERS	S2E	8 LB. CREO. RET.
DECKING	SIS2E	8 LB. CREO. RET.
SCUPPER BLOCKS	S4S	8 LB. CREO. RET.
BULL RAIL	S4S	8 LB. CREO. RET.
HANDRAIL POST	S4S	8 LB. CREO. RET.
CHOCKING	ROUGH	8 LB. CREO. RET.
GIRT	S4S	0.5 LB. PENTA.
HANDRAIL	S4S	0.5 LB. PENTA.



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KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
APPROACH STRUCTURE PLAN & PROFILE, DETAILS

APPROVED	<i>James J. Rhode</i>	JAMES J. RHODE, P.E.	CHIEF DESIGN ENGINEER
APPROVED	<i>William Koester</i>	WILLIAM KOESTER, P.E.	ENGINEER
DESIGNED	3/21/78	AS - BUILT	
CHECKED		CHANGE	
SCALE	AS SHOWN	REVISIONS	
DATE	8/15/78		

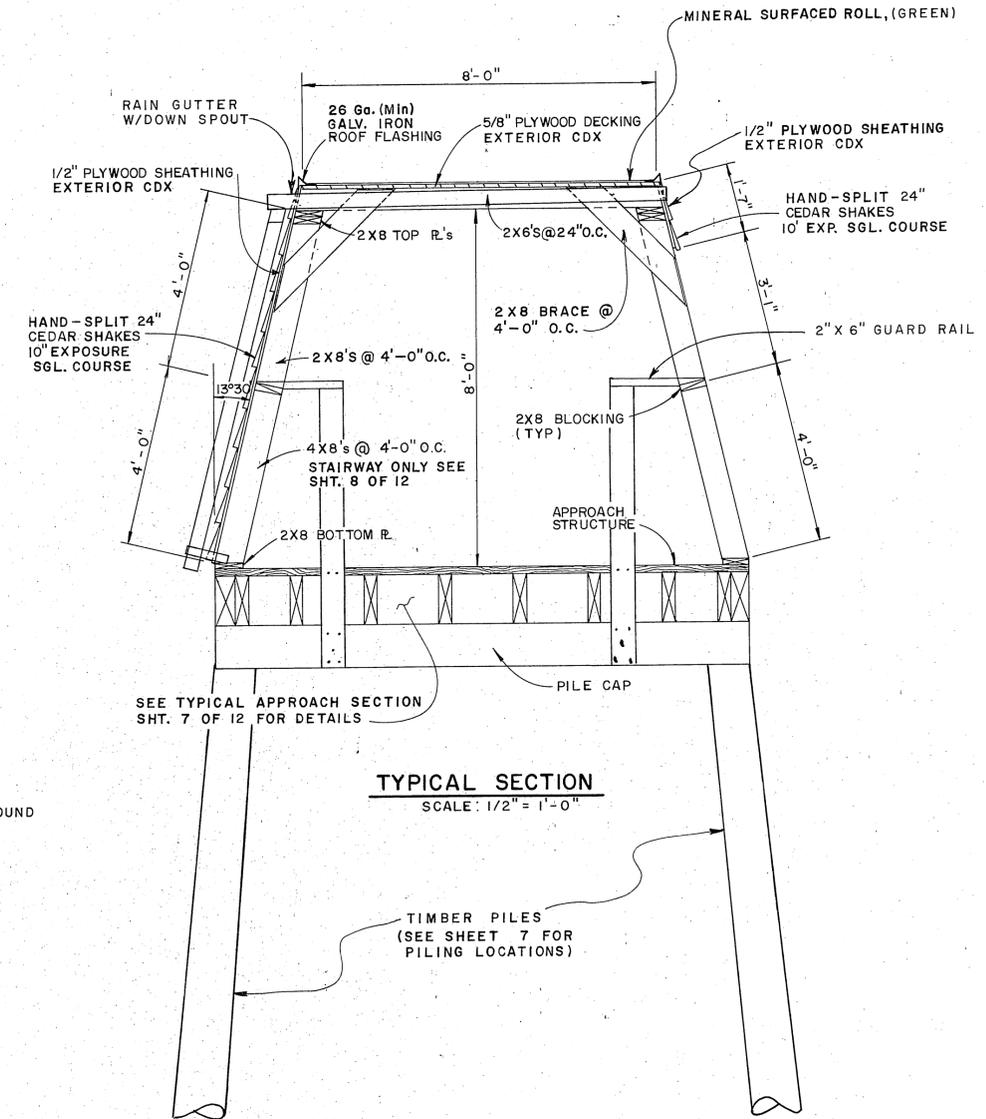
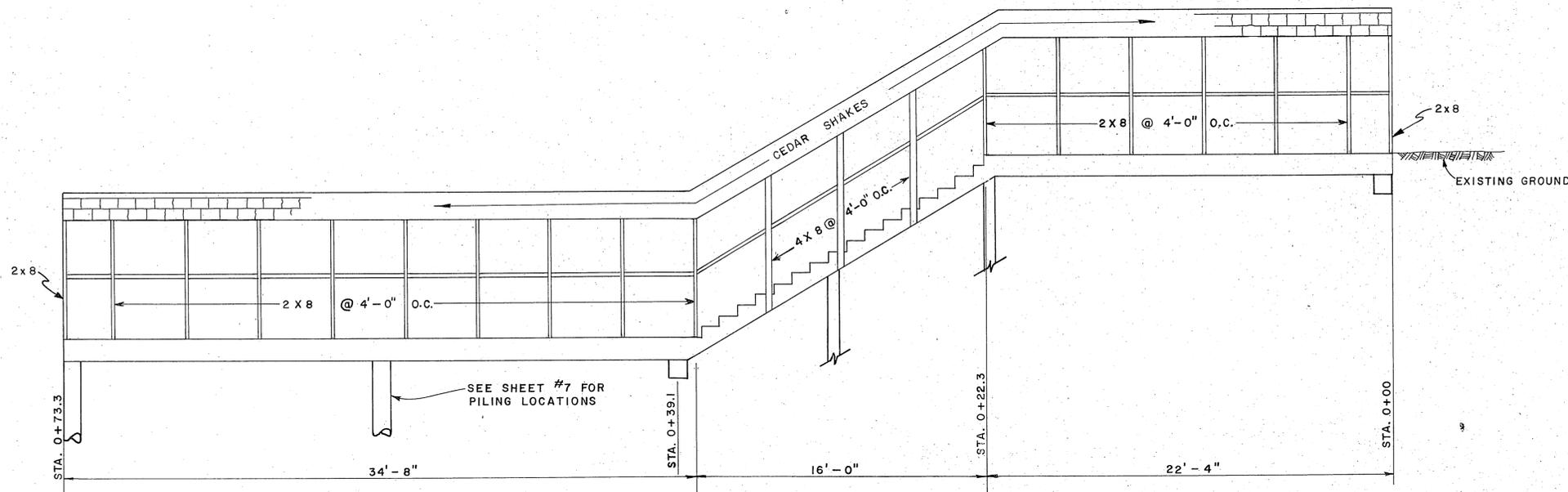
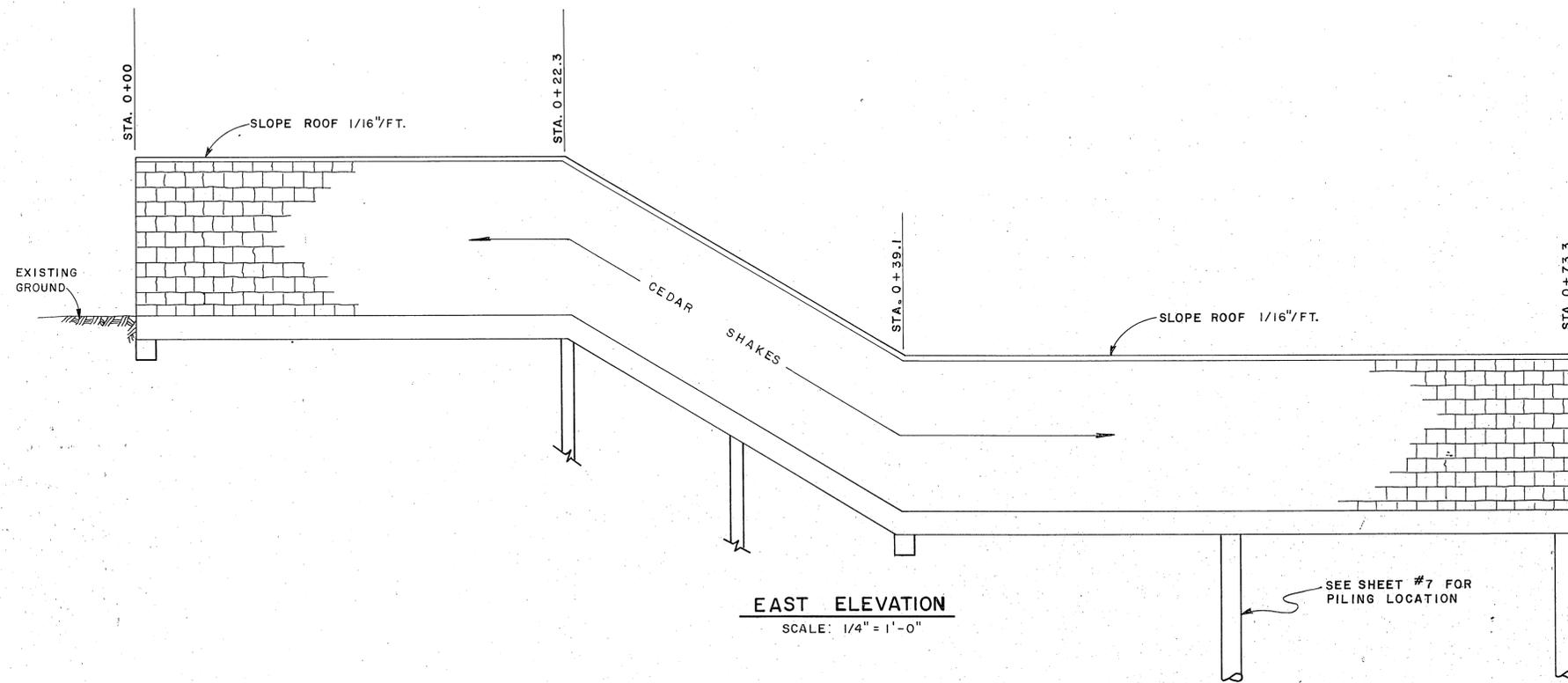


APPROVED		APPROVED	
JAMES J. RHODE, P.E.		WILLIAM KOESTER, P.E.	
CHIEF DESIGN ENGINEER		SECONDARY AIRPORTS ENGINEER	
BY	DATE	SCALE	DESIGNED
	3/21/78	AS - BUILT	DR
		CHANGE	DATE
		REVISIONS	8/25/78
AS - SHOWN		CHECKED	DATE
		JLW	8/25/78

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KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
STAIR PLAN & DETAIL



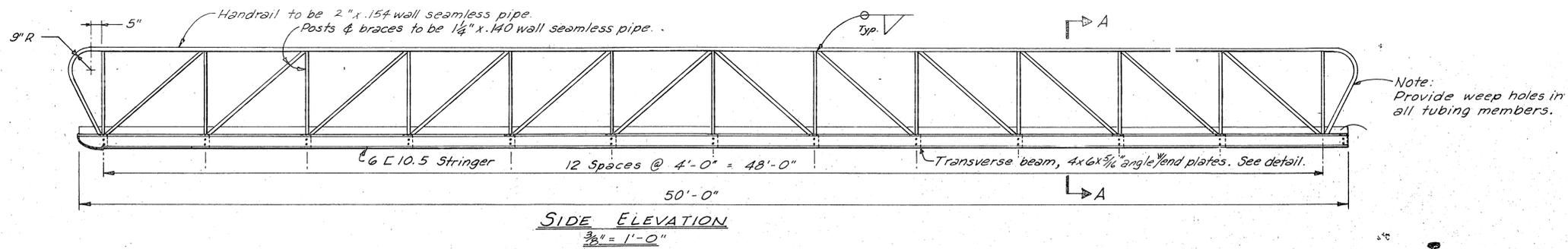
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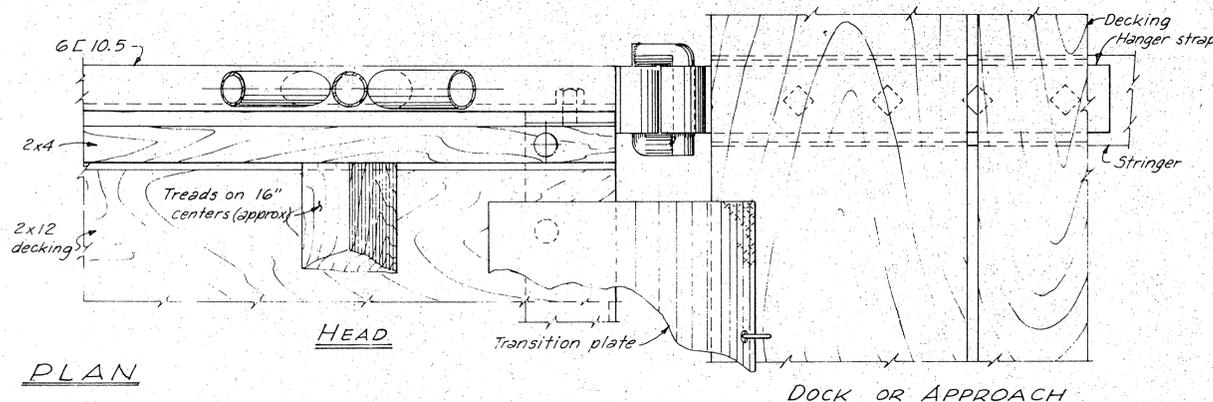
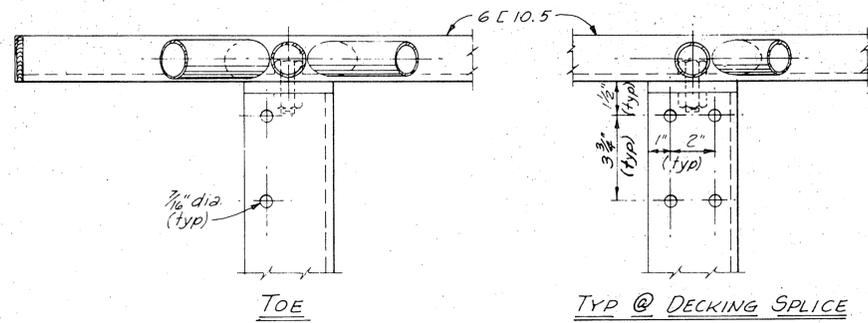
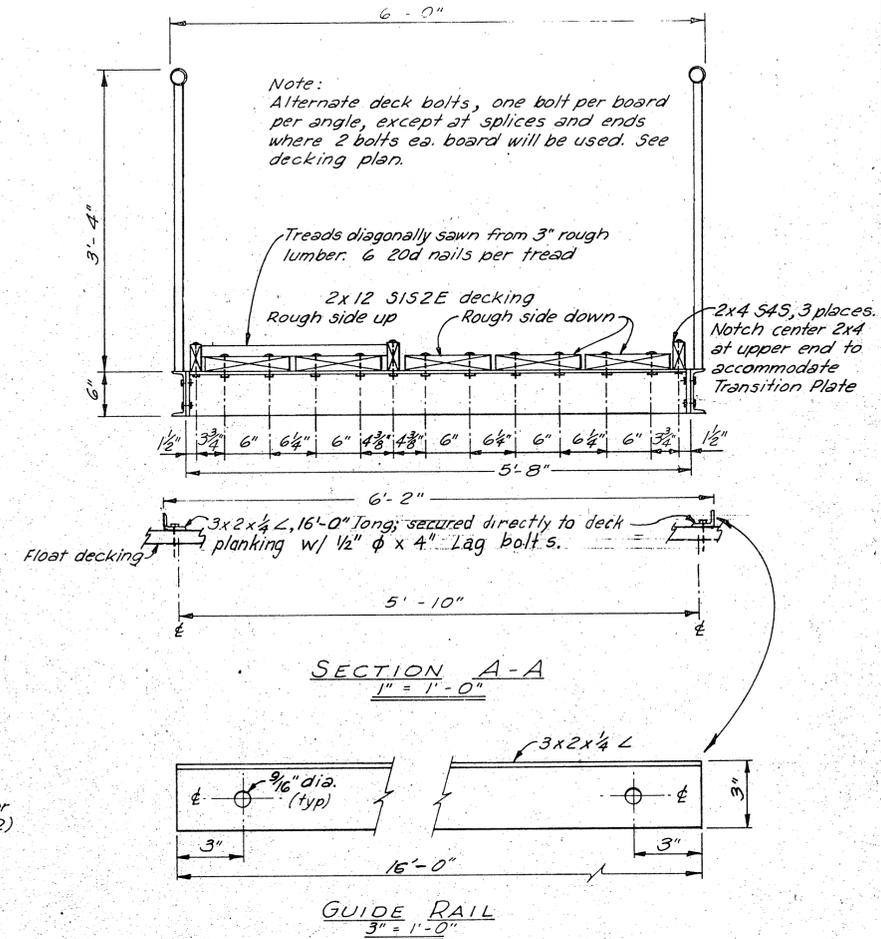
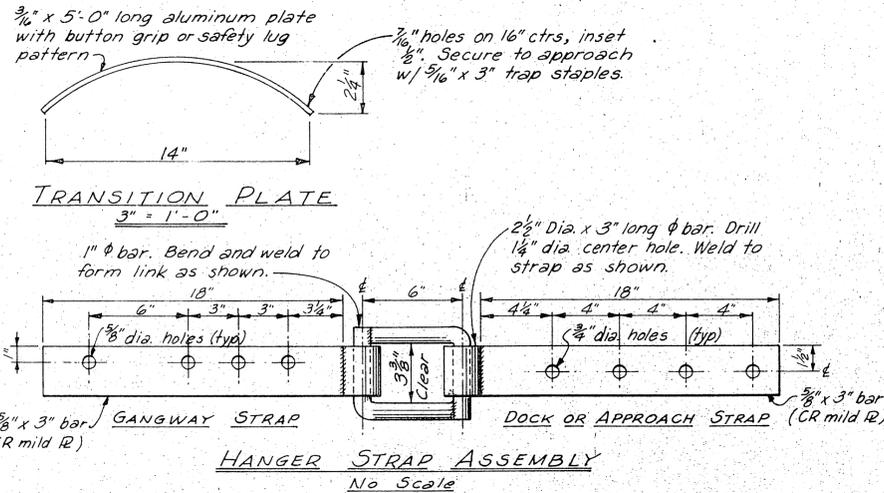
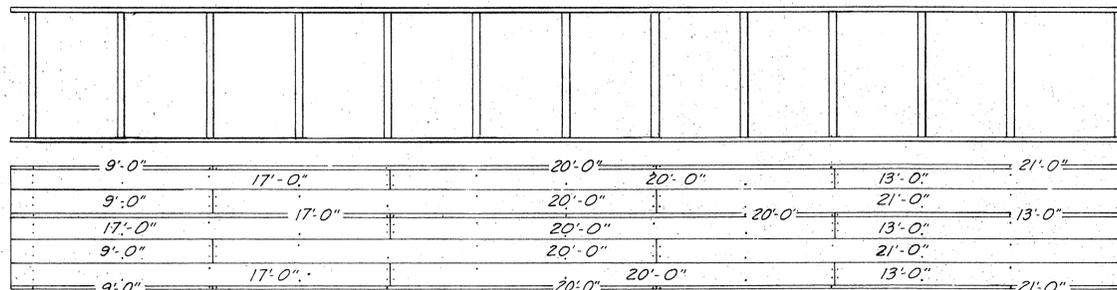
KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT

COVERED APPROACH STRUCTURE

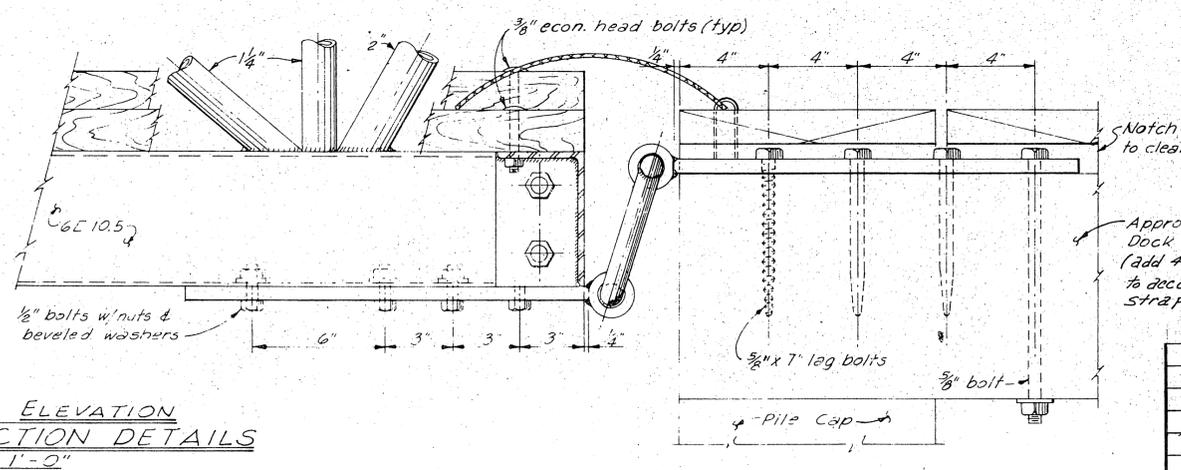
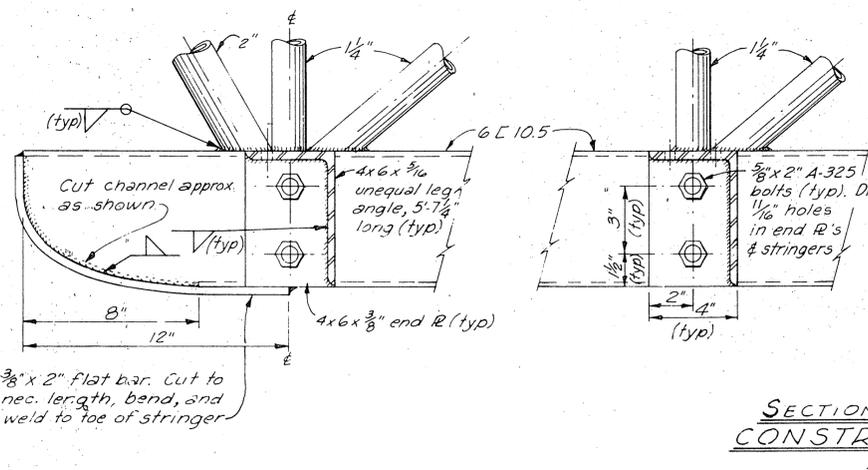
APPROVED		<i>James J. Rhode</i>		JAMES J. RHODE, P.E.		CHIEF DESIGN ENGINEER	
APPROVED		<i>William Koester</i>		WILLIAM KOESTER, P.E.		SECONDARY AIRPORTS ENGINEER	
BY	DATE	AS - BUILT	CHANGE	SCALE	DESIGNED	DRAWN	SHEET 9 OF 12
	3/2/78			AS SHOWN	WLL	L.A.G.	
REVISIONS				CHECKED	DATE		
				WLL	8/24/72		



NOTE: SEE SHEET #II FOR COVERED GANGWAY DETAILS & SECTION.



- NOTES:
1. All seamless pipe shall conform to ASTM A-53.
  2. All channels, angles & plates shall conform to ASTM A-36.
  3. Trusses shall be shop fabricated & assembled including hangers.
  4. 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.
  5. No tubing or channel splices will be permitted within the middle half of the truss structure.
  6. Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance with ASTM A-123, A-384, A-385 & A-386.
  7. All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM A-153.
  8. Decking & deck spacers shall be Select Structural No 1 Douglas fir, creosote pressure treated to 8 lb retention, and shall be field drilled to match shop drilled holes in transverse members.



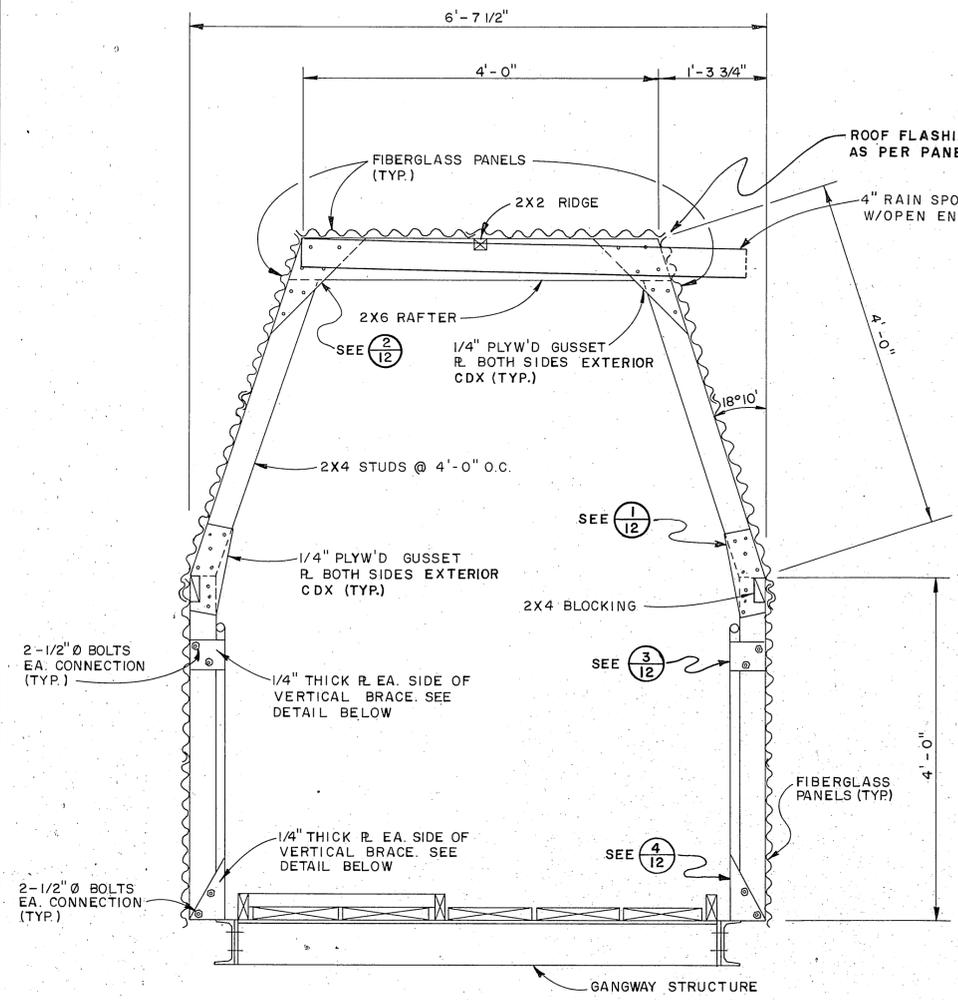
APPROVED	<i>[Signature]</i>	CHIEF DESIGN ENGINEER
APPROVED	<i>[Signature]</i>	SECONDARY AIRPORTS ENGINEER
BY	DATE	CHANGE
A	3/2/78	AS - BUILT
AS SHOWN	DESIGNED BY	DRAWN BY
	JGW	JET
	CHECKED BY	DATE
	JGW	8/25/78

REVISIONS

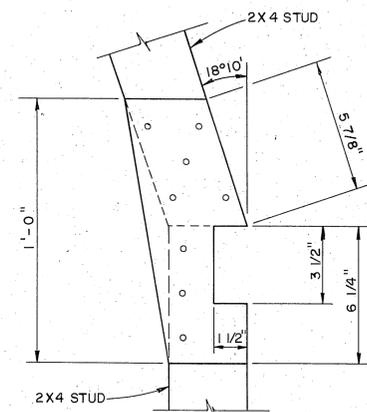
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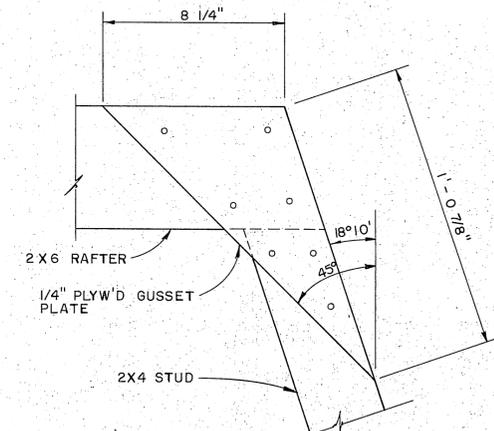
KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
STEEL GANGWAY PLAN & DETAIL



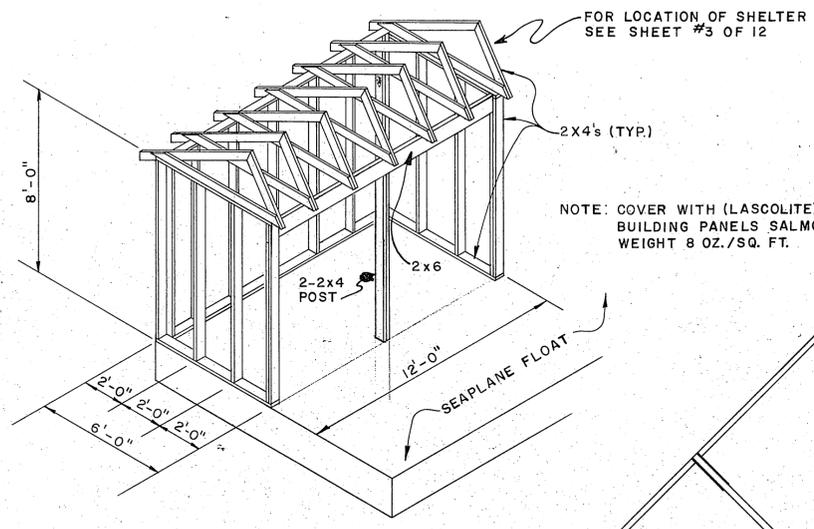
**SECTION**  
SCALE: 1" = 1'-0"



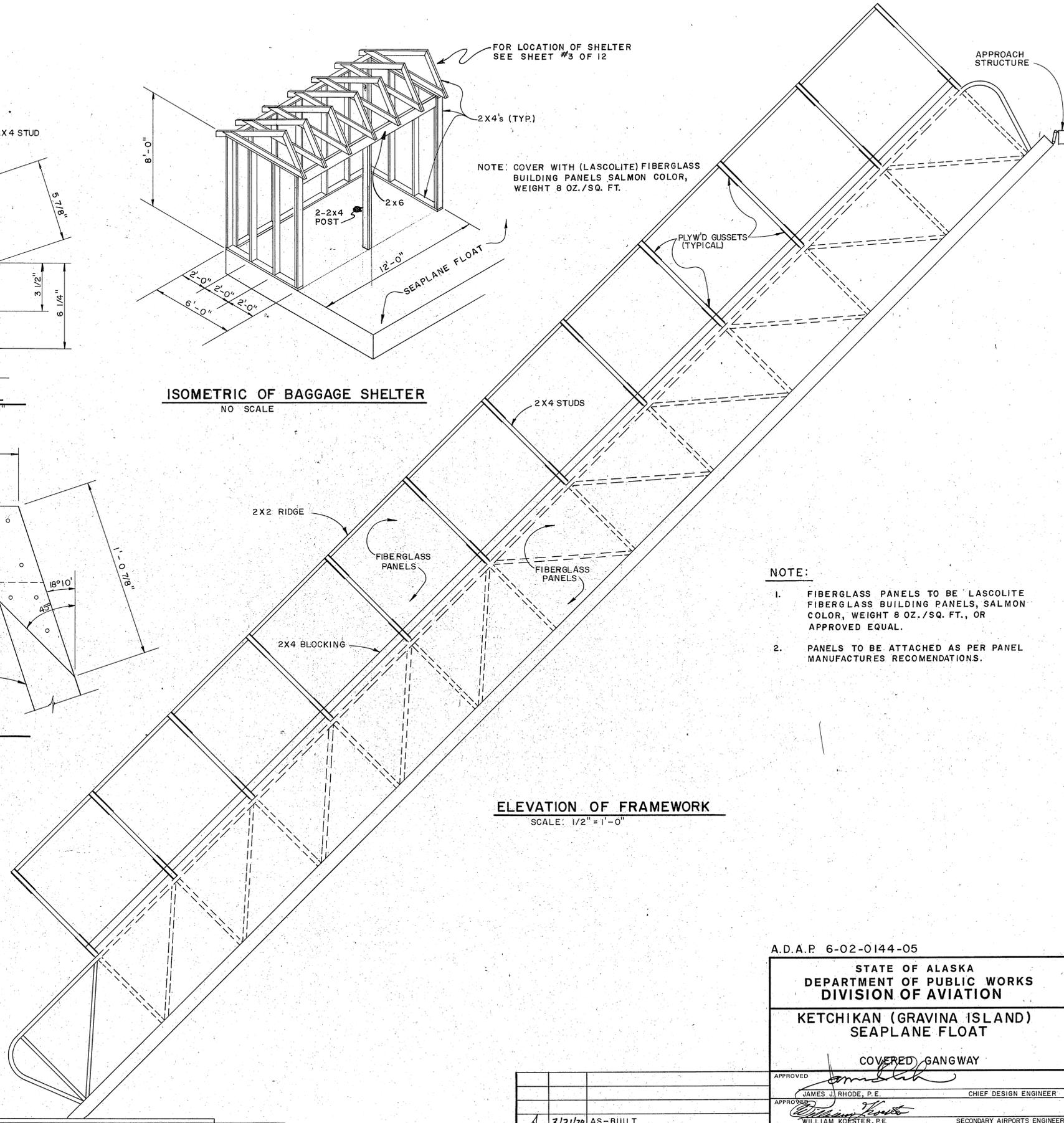
**DETAIL 1**  
SCALE: 3" = 1'-0"



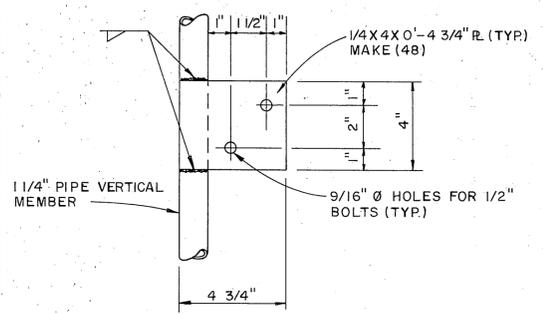
**DETAIL 2**  
SCALE: 3" = 1'-0"



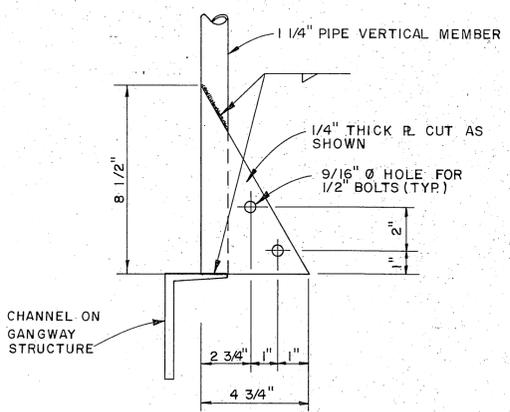
**ISOMETRIC OF BAGGAGE SHELTER**  
NO SCALE



**ELEVATION OF FRAMEWORK**  
SCALE: 1/2" = 1'-0"



**DETAIL 3**  
SCALE: 3" = 1'-0"

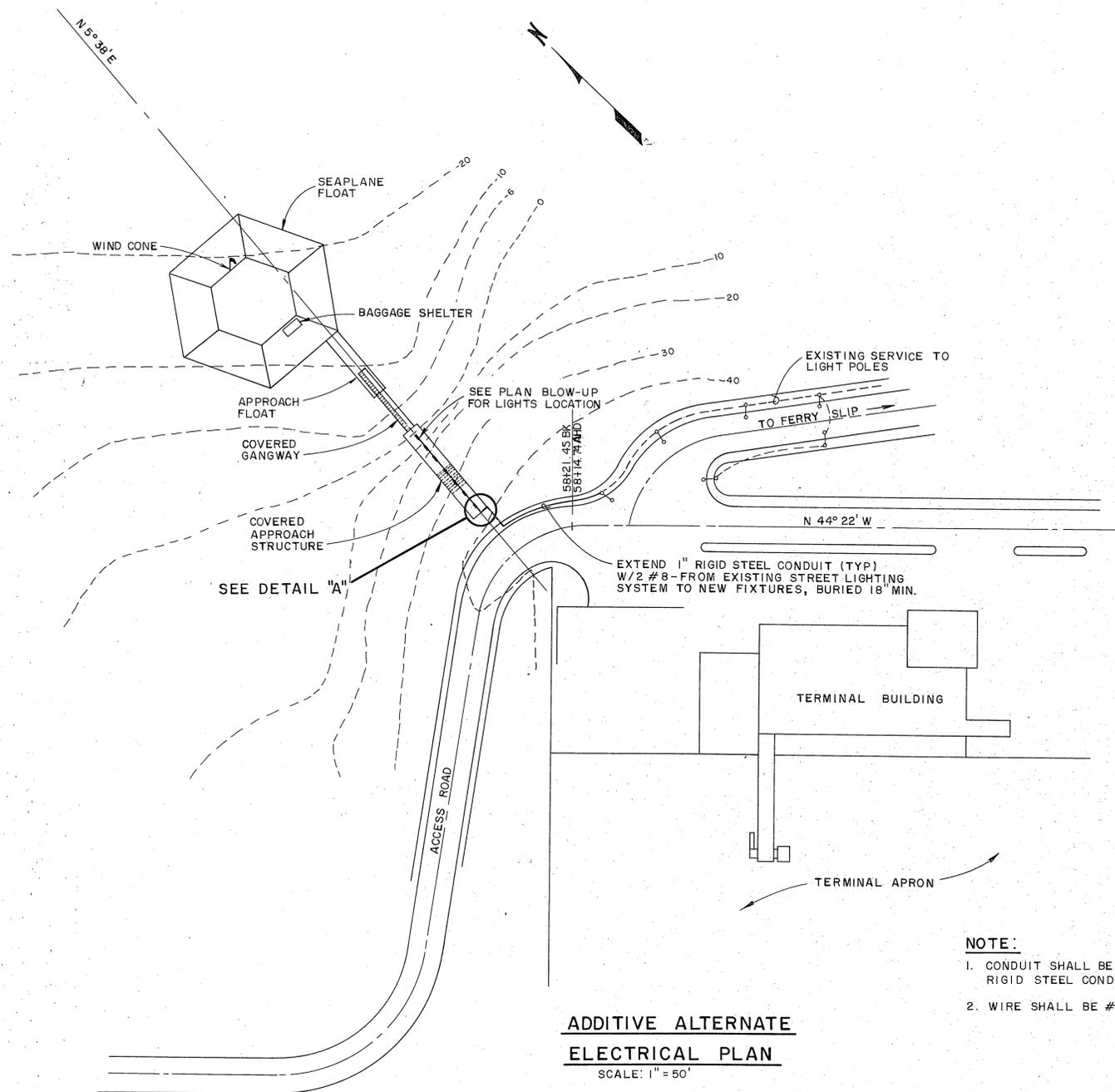


**DETAIL 4**  
SCALE: 3" = 1'-0"

- NOTE:**
1. FIBERGLASS PANELS TO BE LASCOLITE FIBERGLASS BUILDING PANELS, SALMON COLOR, WEIGHT 8 OZ./SQ. FT., OR APPROVED EQUAL.
  2. PANELS TO BE ATTACHED AS PER PANEL MANUFACTURERS RECOMMENDATIONS.

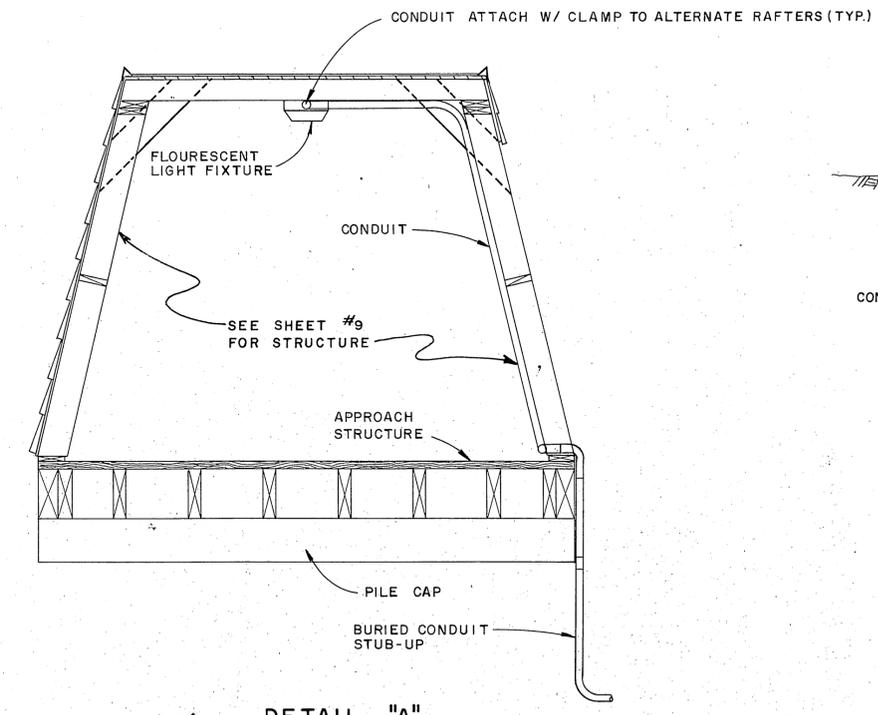
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 STATE OF ALASKA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF AVIATION  
 KETCHIKAN (GRAVINA ISLAND)  
 SEAPLANE FLOAT  
 COVERED GANGWAY

APPROVED	<i>James J. Rhode</i>	JAMES J. RHODE, P.E.	CHIEF DESIGN ENGINEER
APPROVED	<i>William Koester</i>	WILLIAM KOESTER, P.E.	SECONDARY AIRPORTS ENGINEER
BY	DATE	DESIGNED	DRAWN
A	3/21/78	AS-BUILT	L.A.G.
REVISIONS		CHECKED	DATE
		JGW	8/25/78

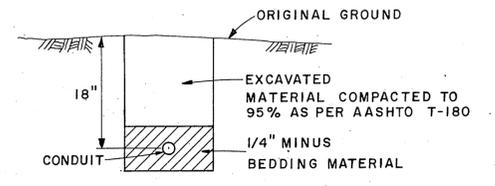


**ADDITIVE ALTERNATE ELECTRICAL PLAN**  
SCALE: 1" = 50'

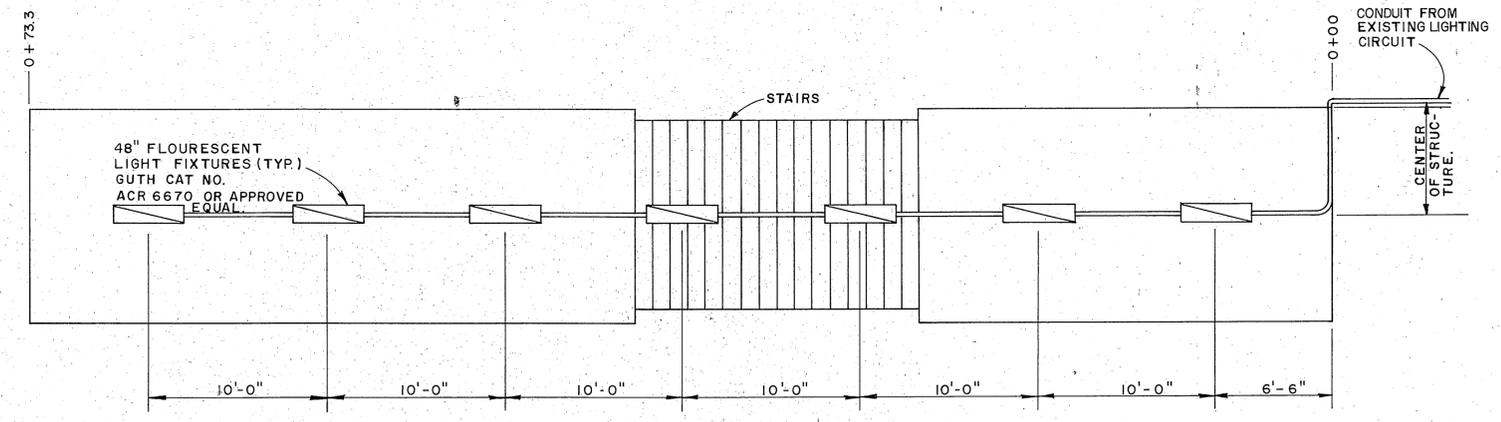
- NOTE:**
1. CONDUIT SHALL BE 1" P.V.C. JACKETED RIGID STEEL CONDUIT.
  2. WIRE SHALL BE #8 THW COPPER.



**DETAIL "A"**  
SCALE: 1/2" = 1'-0"



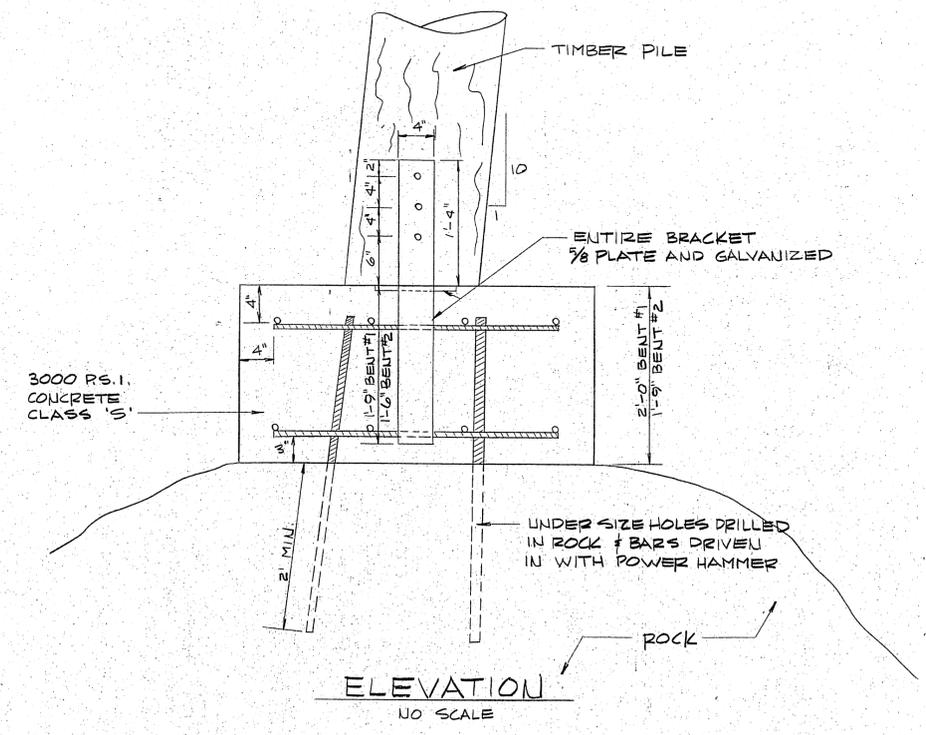
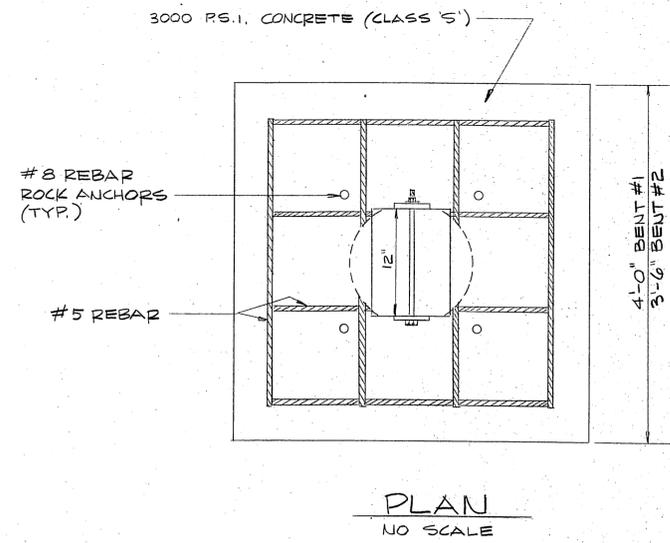
**TRENCH DETAIL**  
NO SCALE



**PLAN**  
SCALE: 1" = 5'

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KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
ADDITIVE ALTERNATE #1  
ELECTRICAL PLAN & DETAIL

APPROVED	<i>[Signature]</i>	JAMES J. RHODE, PE	CHIEF DESIGN ENGINEER
APPROVED	<i>[Signature]</i>	WILLIAM KOESTER, P.E.	SECONDARY AIRPORTS ENGINEER
BY	DATE	DESIGNED	DRAWN
A	3/21/78	AS-BUILT	L.A.G.
		CHANGE	DATE
		AS SHOWN	8/25/76
		CHECKED	
		J.G.W.	
		REVISIONS	

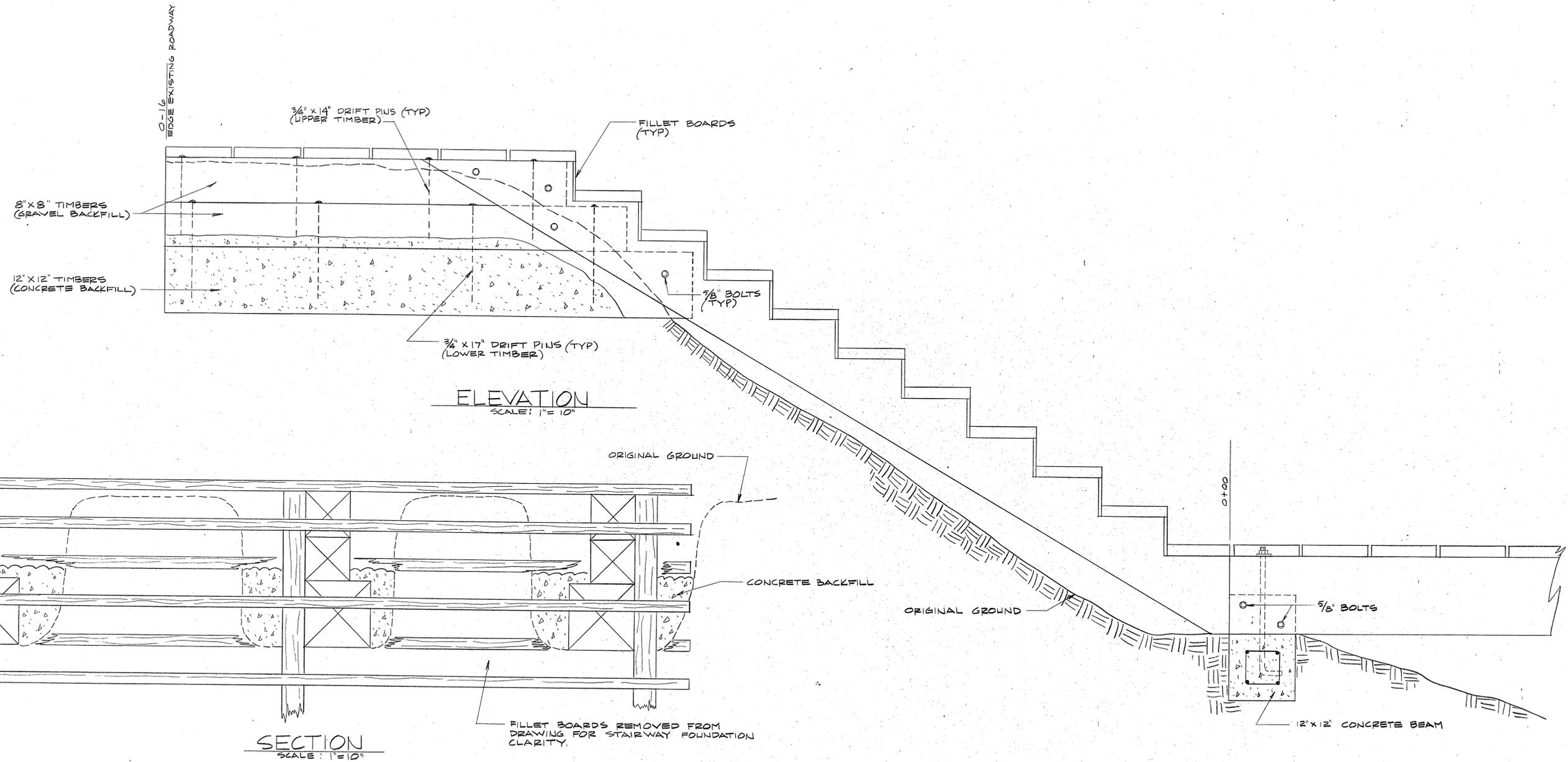


A.D.A.P. NO. 6-02-0144-05

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
DIVISION OF AVIATION-DESIGN AND CONSTRUCTION

KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
CHANGE ORDER NO. 2  
FOOTINGS FOR BENT NO. 1 & 2

APPROVED		JAMES J. RHODE, P.E.		CHIEF DESIGN ENGINEER	
APPROVED		WILLIAM KOESTER, P.E.		SECONDARY AIRPORTS ENGINEER	
BY	DATE	DESIGNED	CHANGE	DRAWN	SHEET
	3/21/78	AS-BUILT			1 OF 1
REVISIONS			NO SCALE	CHECKED	DATE



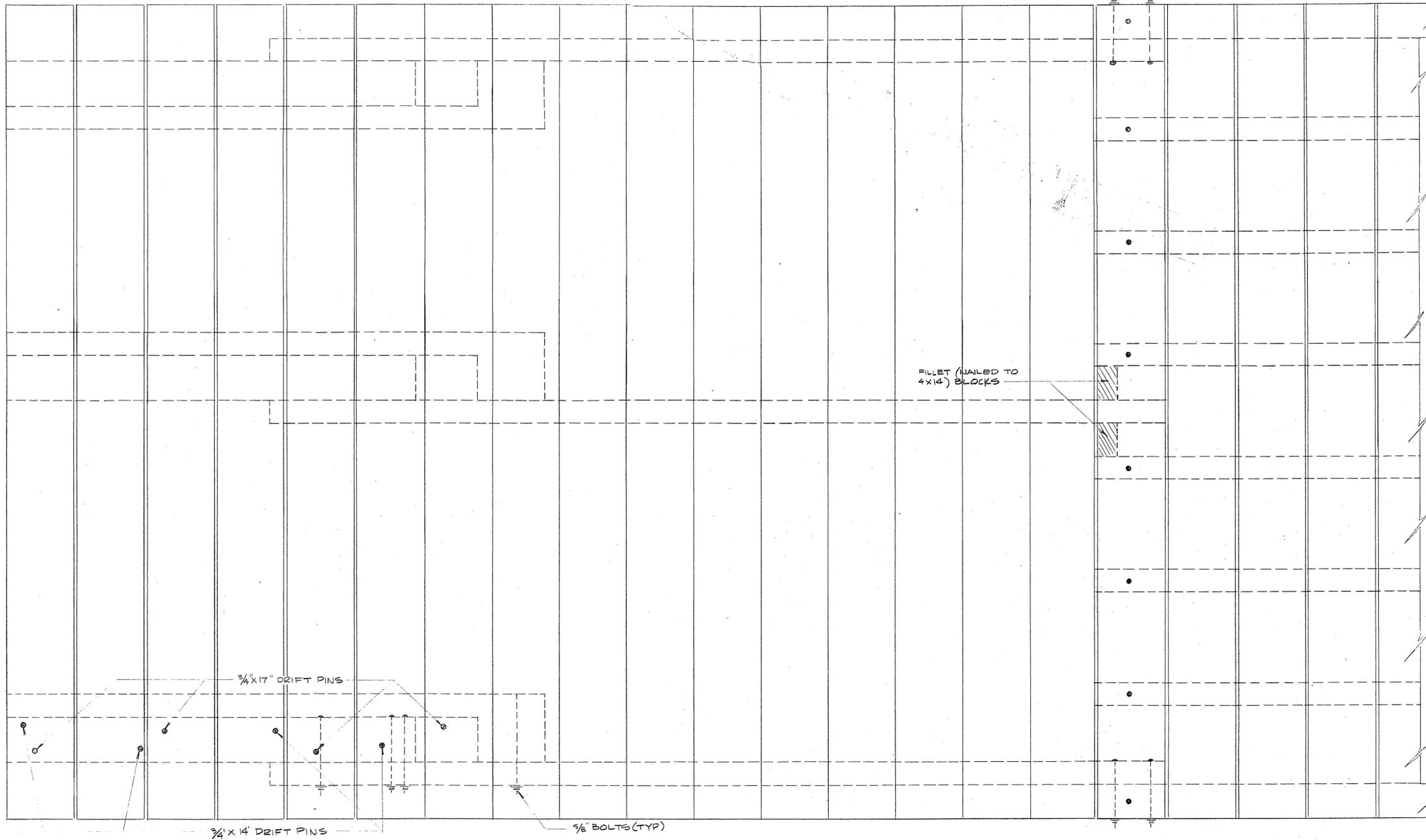
A.D.A.P. NO. 6-02-0144-05  
 STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 DIVISION OF AVIATION—DESIGN AND CONSTRUCTION  
 KETCHIKAN (GRAVINA ISLAND)  
 SEAPLANE FLOAT  
 STAIRWAY FROM ROADWAY TO BEGINNING OF  
 APPROACH STRUCTURE 0-16 TO 0+00

APPROVED		JAMES J. RHODE, P.E.		CHIEF DESIGN ENGINEER	
APPROVED		WILLIAM KOESTER, P.E.		SECONDARY AIRPORTS ENG.	
BY	DATE	CHANGE	DESIGNED	DRAWN	SHEET 1 of 2
REVISIONS			CHECKED	DATE	
AS-BUILT					

0-16  
EDGE EXISTING

BEGIN  
STAIRS

0+00



FILLET (NAILED TO  
4x14) BLOCKS

3/4 x 14" DRIFT PINS

3/4 x 14" DRIFT PINS

3/8" BOLTS (TYP)

BOLT & PIN DETAIL  
TYPICAL ALL THREE

PLAN

SCALE: 1"=10'

A.D.A.P. NO. 6-02-0144-05

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
DIVISION OF AVIATION-DESIGN AND CONSTRUCTION

KETCHIKAN (GRAVINA ISLAND)  
SEAPLANE FLOAT  
STAIRWAY FROM ROADWAY TO BEGINNING OF  
APPROACH STRUCTURE 0-16 TO 0+00

APPROVED  
JAMES J. RHODE, P.E. CHIEF DESIGN ENGINEER

APPROVED  
WILLIAM KOESTER, P.E. SECONDARY AIRPORTS ENGINEER

BY	DATE	REVISIONS	SCALE	DESIGNED	DRAWN	CHECKED	DATE	SHEET
			AS SHOWN					2 OF 2
	3/21/78	AS-BUILT						