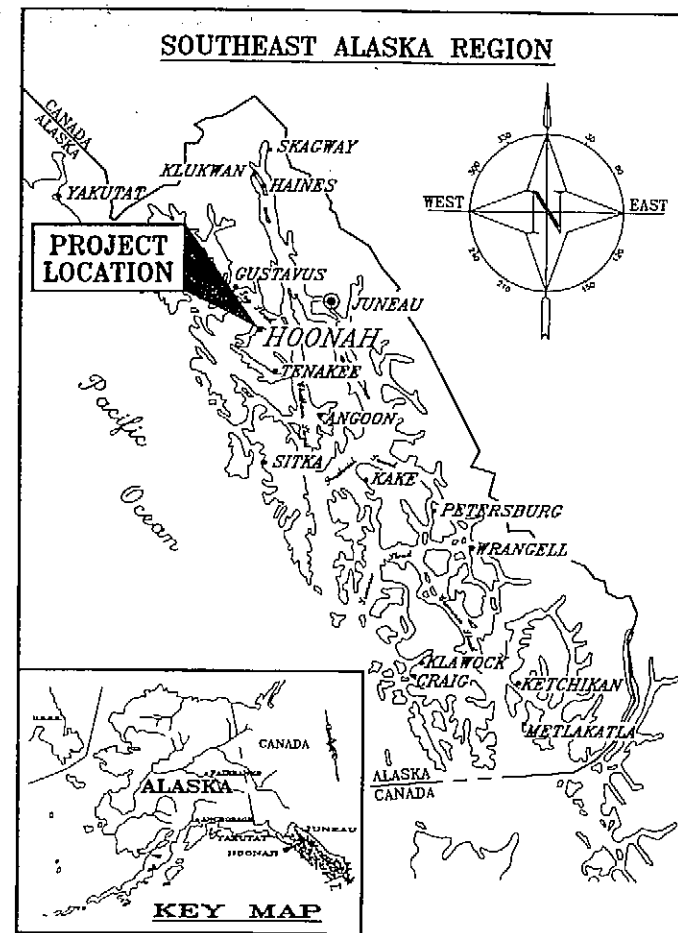




Location Map

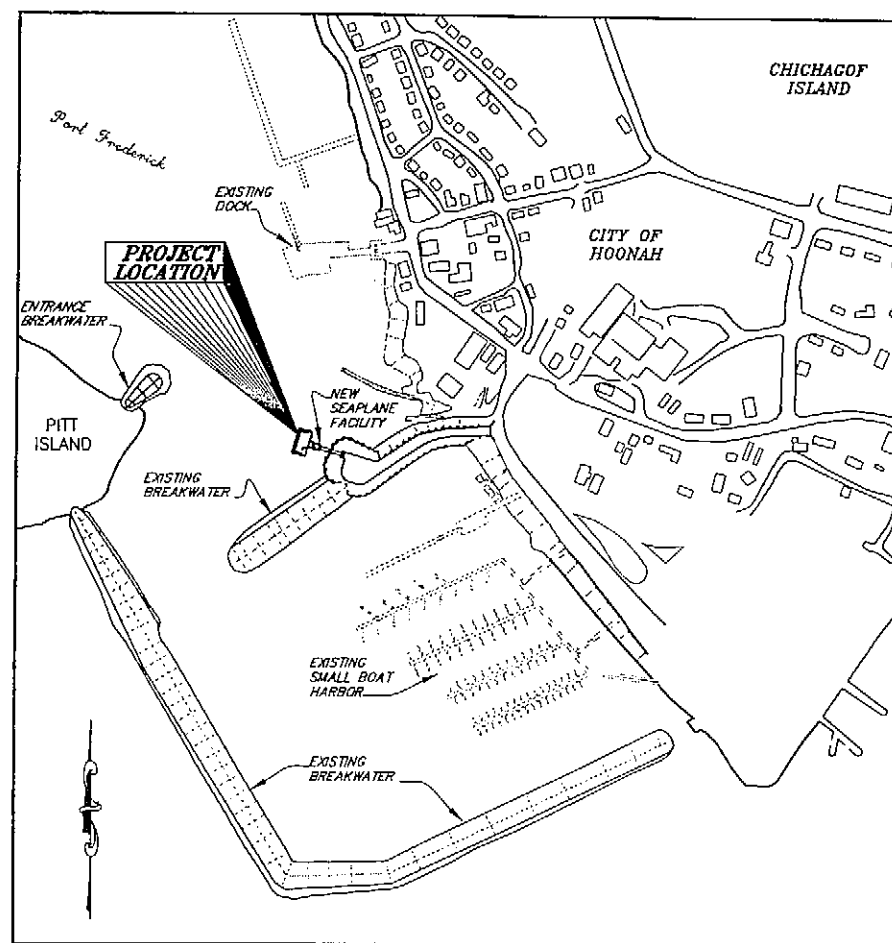
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

HOONAH, ALASKA

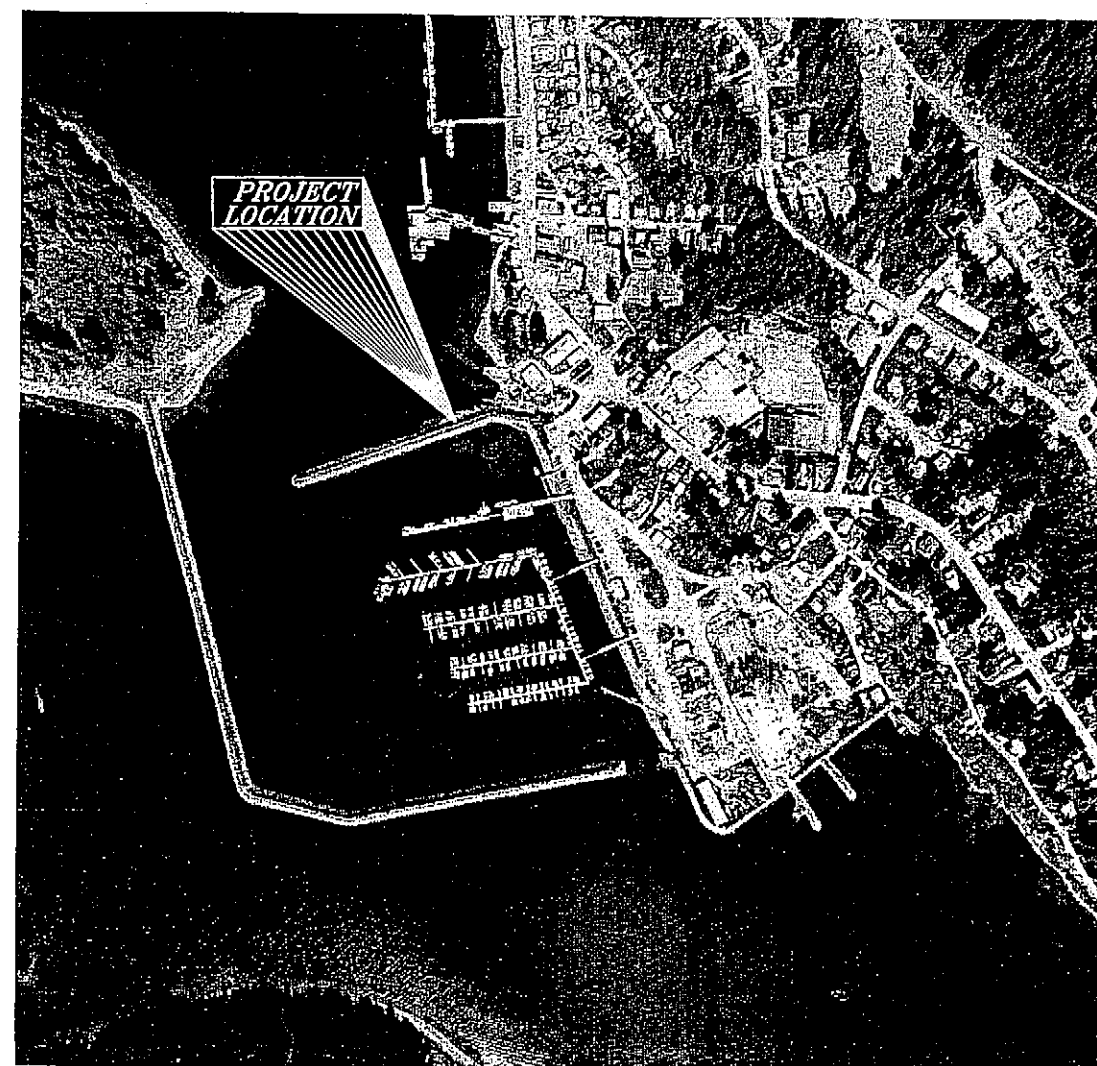
*Hoonah Seaplane Float
Replacement*

PROJECT NO. 68348
AIP PROJECT NO. 3-02-0453-001-2005

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Title Sheet
2	Estimate of Quantities
3	Site Plan
4	Survey Data
5-9	Uplands
10	Marine Facilities Layout
11-12	Abutment
13-19	Gangway
20	Gangway Float
21-22	Main Float
23-25	Ramp Float
26-27	Hinge Details
28	Transition Plate Details
29-33	Pile Collars
34	Pile Details
35	Wind Cone Details
36	Sign Details



Vicinity Map



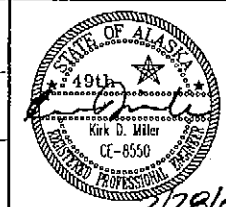
Site Map

The following Standard
Drawings apply to this
Project:

A-1 C-04.12 E-00.00 E-13.00 G-00.01 G-04.06S G-25.20W S-00.10 S-05.01 S-20.10 T-20.02 T-21.02

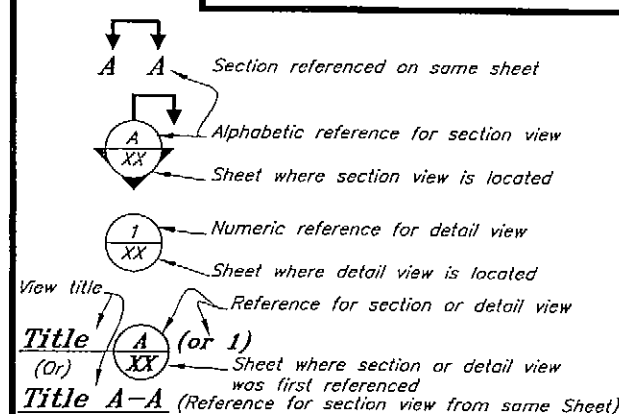
AS-BUILT PLANS
TRUCAND CONSTRUCTION
TINA BERGMAN PROJECT ENGINEER
START - OCTOBER 20th 2005
END - MAY 15
2006

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	
APPROVED <i>[Signature]</i> Regional Reconstruction Engineer Patrick J. Kemp	Date 7/28/05
APPROVED <i>[Signature]</i> Director, S.E. Region Malcolm A. Menzies	Date 7/28/05
PROJECT NUMBER: 68348	
DATE: July 2005	
SHEET 1 OF 36	



Estimate of Quantities			
Item No	Pay Item	Pay Unit	Quantity
201(3B)	Clearing & Grubbing	Lump Sum	All Req'd
203(3)	Unclassified Excavation	Cubic Yard	230
203(5)	Borrow	Cubic Yard	14,658
204(2)	ADDITIONAL WORK BOP RADIUS		15,987
304(4)	Subbase, Grading	Ton	2,150
304(1A)	CASEC - C1	LS	All Req'd
307(2)	Emulsified Asphalt, Type GSS	Ton	17
307(3)	SAE, 4-Inches Thick	Square Yards	2,430
307(4)	Portland Cement	Ton	6
401(1)	ASPHALT CONCRETE, TYPE II	LS	All Req'd
405(4)	GRS-2P Emulsified Asphalt for Surface Treatment	Ton	12
405(2)	Aggregate for Surface Treatment, Grading-B	Ton	70
405(3)	Aggregate for Surface Treatment, Grading-E	Ton	40
401(2)	ASPHALT CEMENT - PG 58-28	LS	All Req'd
504(1)	Gangway Abutment Cap & Glulam Backwall	Lump Sum	All Req'd
504(2)	Gangway Piles Support Cap	Lump Sum	All Req'd
504(3)	11'x100' Steel Gangway	Lump Sum	All Req'd
505(1)	MOD: DEMOBL ASPHALT PLANT		
505(1)	18" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	810
505(2)	18" dia. x 1/2" Wall Pipe Piles, Driven	Each	9
505(3)	100 lb Anode	Each	7
505(4)	Wind-Gone, Pile-Mounted	Lump Sum	All Req'd
505(1A)	MODIFIDE WIND CONE		
506(1)	20'x36' Timber Gangway Float	Lump Sum	All Req'd
506(2)	43'x80' Timber Mooring Float	Lump Sum	All Req'd
506(3)	25'x36' Timber Ramp Float	Lump Sum	All Req'd
606(1)	W-Beam Guardrail	Linear Foot	1,150
611(1)	Riprap, Class 1	Cubic Yard	2,150
611(2)	Riprap, Class IV	Cubic Yard	1,550
615(7)	Signs	Lump Sum	All Req'd
630(1)	Geotextile, Separation	Square Yard	400
640(1)	Mobilization & Demobilization	Lump Sum	All Req'd
640(4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Req'd
641(1)	Erosion and Pollution Control Administration	Lump Sum	All Req'd
641(2)	Erosion and Pollution Control	Contingent Sum	All Req'd
642(1)	Construction Surveying	Lump Sum	All Req'd
643(2)	Traffic Maintenance	Lump Sum	All Req'd
644(1)	Field Office	Lump Sum	All Req'd
644(6)	Vehicles	Lump Sum	All Req'd
670(1)	Painted Traffic Markings	Lump Sum	All Req'd

LEGEND



Abbreviations

SS - Stainless Steel
 Galv. - Galvanized
 Typ - Typical
 O.C. - On Center
 U.O.N. - Unless Otherwise Noted
 Econ. Hd. - Economy Head
 Alum - Aluminum
 L - Long

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. B. B. B. B. Date 10/10/07

General Notes

Specifications: Per applicable Contract Documents. See Special Provisions.

Design Standards: AKDOT&PF & Southeast Region Marine Engineering Design Standards
 AASHTO

Materials

Steel:

Tube Sections: ASTM A500 Grade B

Piles: Straight Seam, ASTM A252 Grade 3 or equal.

Pipe: A53, Grade B, Type E or S

Stainless: Type 302, 304 or 316

Steel Shapes & Plates: ASTM A36, A572 Grade 50, or as noted.

Pile Tips: APF-0-14000 or APF 0-14001 Drive shoes or approved equal.
 Drive shoes are required on all piling.

Steel Coatings: All steel fabrications and hardware shall be hot-dip galvanized after fabrication per ASTM A123 and A153.

Bolts and Fasteners: ASTM A325 for steel connections.
 ASTM A307 for timber.

Tension Rods:

Steel tension rods shall be all-thread rebar, Williams Form Engineering Corp, Grade 75 conforming to ASTM A615 or approved equal. Furnished in the nominal diameter and full length required without internal splices. Tension nuts shall be 2" in overall length. Provide jam nut at all connections after initial and final tensioning.

Timber: Sawn timber shall be Douglas Fir, No. 1 or better per WCLIB/WWPA grading rules. Sawn timber decking shall be Douglas Fir, Selected Grade per WWPA grading rules. All sawn timber shall be S4S except decking (milled S1S2E).

Glulam Stringers and Diaphragms shall be DF/DF, Combination 24F-V8.
 Glulam Deck Panels and Blocking shall be DF, Combination 2.

UHMW Plastic: Ultra high molecular weight plastic (UHMW) shall be made from materials conforming to ASTM D4020. Color shall be black.

Aluminum: Shapes - ASTM 6061-T6 Plates - ASTM 5086 H112

Metal Deck Grating: Steel interlocking diagonal grid with welded joints. Main rails 5-3/16" deep at 7-1/2" spacing with supplemental cross and diagonal bars. Steel components shall have minimum yield strength of 36 ksi with minimum section modulus of 3.64 in³/ft. Grating shall be hot dip galvanized after fabrication.

Concrete: Concrete shall be Class A in accordance with Standard Specifications for Highway Construction, Section 501 - Structural Concrete. Texture horizontal surfaces with a heavy broom finish.

Expanded Metal Walkway:

Standard expanded metal type, 3/4" - #10 size and hot dip galvanized after fabrication. Sections shall be provided in the nominal width shown. Average panel length (in direction of walkway travel) shall be 8'. Panels shall be bond sheared. Submit proposed panel layout prior to fabrication and installation. Shop cut holes for float tie-down eye bolts as required. Attach expanded metal panels to deck surface with 1-1/2" long galvanized staples. Staple at all panel corners and along panel edges at 16" OC. Also staple at panel interior locations every 24" staggered row or as directed by the Engineer to maintain flatness of panel.

Tidal Data

EHW = +20.0'
 MHHW = +14.8'
 MLLW = 0.0'
 Est. Max LW = -5.1'

Timber Treatment:

Sawn timbers for milled decking and bumper boards shall be treated with ACZA to 0.6 pcf retention. Glulam stringers and diaphragms shall be treated with Creosote, 12 pcf retention. Glulam sub-deck panels and blocking shall be treated with Copper Naphthenate to 0.06 pcf retention. Glulam tie-down rails to be treated with ACZA to 0.6 pcf retention.

Polystyrene Flotation:

Flotation planks shall be constructed from closed cell expanded polystyrene (EPS) per ASTM D1621. Minimum density shall be 1.1 pcf. Materials shall have a maximum water absorption of 4 percent by volume in accordance with ASTM C272. The planks shall be cut and notched to the nominal dimensions indicated on the plans. All notches and cuts shall be performed using a hot-wire or other approved methods. All flotation planks shall be coated after fabrication with a polyurethane elastomeric coating to a minimum dry film thickness of 50 mils. Polyurethane coatings shall be "Hydrosol 2090" brand or approved equal. All field cuts, nicks and abrasions to the coating shall be repaired with additional coatings to the specified thickness.

Timber Float System:

Fabricate all timber members prior to treatment. All holes to be drilled and daps to be cut prior to pressure treatment (except where specified). Treat all field drilled holes and cuts with copper naphthenate solution.

All timber bolts are economy head type with lugs and M.I. washers, unless otherwise noted. Provide double nuts or jam nut when indicated on plans.

Rubber Tire Bumpers: Tire bumpers shall be of 13-14 inch nominal rim size having a tread width of approximately 6-inches. Tires shall be generally of the same uniform appearance and size. All tires shall be have a minimum of 1/8-inch of "summer tread". Tires with studs, exposed belting or other visible signs of damage will not be accepted. Pre-drill holes for hardware installation. Coordinate installation so that hardware installation does not conflict with other float system hardware where required.

All fabrication and connection details are not shown. Provide detailed shop drawings showing all members and fabrication sequence and as otherwise provide below:

Machine or power driven nails will not be permitted.

Chamfer or bullnose all glulam and sawn timber bullrail corners prior to treatment.

Bumper boards shall be provided in nominal 16-foot lengths. Minimum board lengths shall be 10-feet. Nail all bumper boards with 16d galv box nails at minimum of 12" OC staggered row and 2 nails at ends. Pre-drill pilot hole to prevent splitting as req'd.

2x8 milled decking placed over glulam subdecking shall be provided in nominal 18-foot lengths. Minimum length shall be 10-feet unless otherwise required or permitted. Notch/cut as required to fit around pile collar weldments and other items. Space milled decking 1/4" apart and nail to glulam subdecking with 20d galv box nails, 2 nails at 16" OC and 2 nails at each end. Pre-drill pilot hole to prevent splitting. Stagger adjacent deck joints a minimum of 4-feet apart.

3x10 milled decking for the ramp float shall be fastened to framing members per the notes contained on Sheet 23.

Glulam sub-decking shall be spaced 1/4" apart (except for gangway float, see Plans) and secured to each stringer with galvanized lag bolts of the size and spacing indicated. Pre-drill proper size shaft and thread holes. Lubricate lags prior to installation.

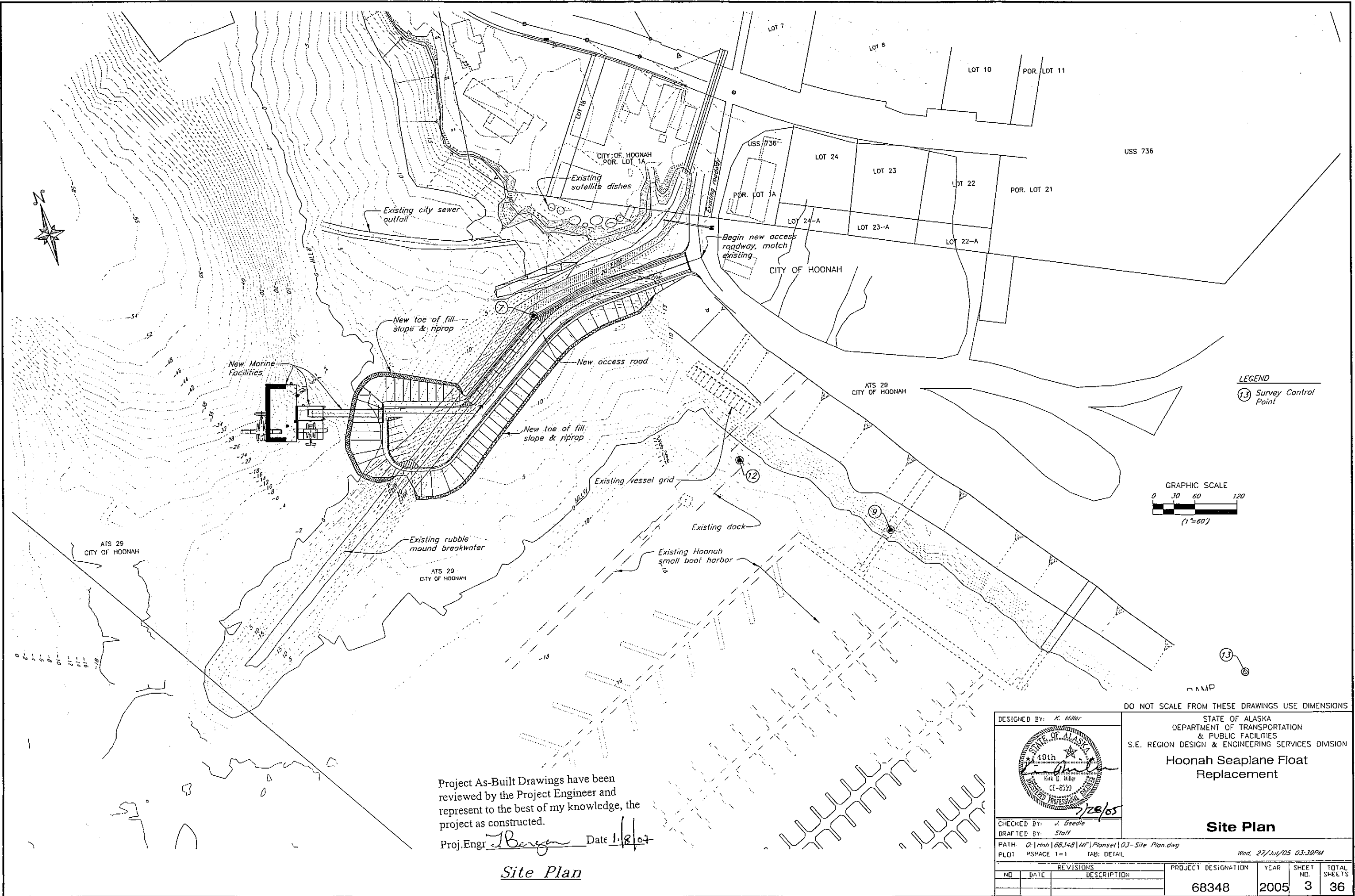
Counterbore for all bolt heads facing decking to be flush or otherwise covered by other members and where noted on the plans prior to treatment.

Secure exterior glulam blocking to exterior stringers and diaphragm members with 2 each, 5/8" diam by 9" L lags (CTSK) within 12" of ends and every 3' OC or as otherwise noted on plans or approved by the Engineer. Space blocking lags to miss other hardware. Also install additional lag bolts thru glulam sub-deck and into exterior blocking (2 lags per panel along exterior long side and approximately 3'-0" OC along short sides).

Fabricate glulam diaphragm members with 1-1/8" nominal diameter holes at indicated dimensions for passage of steel tension rods. For initial tensioning, torque tension rods to maximum practical tension without crushing timber bearing surfaces or as otherwise approved by the Engineer. For final tensioning, all tension rods shall be checked and nuts and jam nuts re-tightened after the float has been installed and prior to project completion.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
		Hoonah Seaplane Float Replacement			
		Estimate of Quantities & General Notes			
CHECKED BY: J. Beedle		Thu, 28/Jul/05 02:32PM			
DRAFTED BY: C. Fuman		PATH: Q:\Hnh\68348\MF\Plans\02-Estimate Quantities.dwg			
PLOT: PSPACE 1=1		PROJECT DESIGNATION: 68348			
NO. DATE DESCRIPTION		YEAR	SHEET NO.	TOTAL SHEETS	
		2005	2	36	



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. *J. Bergen* Date *1/8/07*

Site Plan

DESIGNED BY: *K. Miller*

CHECKED BY: *J. Beedle*

DRAFTED BY: *Staff*

PATH: *C:\Mnt\68348\MP\Plans\03-Site Plan.dwg*

PLOT: PSPACE 1=1 TAB: DETAIL

7/28/05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float Replacement

Site Plan

PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
68348		2005	3	36

SURVEY CONTROL DATA

HORIZONTAL CONTROL:

Horizontal Control for this project is based on the Hoonah Grid 2005.

This grid was developed around Corps of Engineers monumentation located at Hoonah Harbor. Coordinate values referenced by COE are NAD83 AKSPC zone 1 US FEET, however the values published are simply converted values from NAD27. As such there is a noticeable difference between their coordinate values and those obtained from OPUS/SKI Pro processing at the ferry terminal. For this new grid, we will hold OPUS derived values at HFT-1 (NOS MONUMENT "Ferry-1981").

At HFT-1 also known as NOS monument "Ferry-1981"

OPUS derived Position: N 58°07'00.44427" W 135°27'26.11473"
N 2299376.7467' E 2339745.9227'

Corps of Engineers Position N 2299372.6500 E 2339748.8570

Delta N +4.0185'

Delta E -3.0410'

The DOT/PF Hoonah Grid 2005 System is a local ground coordinate system based at US Army Corps of Engineers station "HH-A". New coordinates for HH-A were derived from static sessions between our OPUS derived position at "Ferry-1981" and "HH-A". The grid relates to AKSPC zone 1 NAD83 through the following parameters:

Zone = NAD83 AKSPC ZONE 1

Grid Scale = 0.999901

Convergence = -1°30'05"

Translation about COE point HH-A (#12) as follows:

AKSPC Northing = 22958558.1264 FT US

AKSPC Easting = 2342071.6656 FT US

Local Northing = 600000.0000 FT US

Local Easting = 300000.0000 FT US

Basis of Coordinates for this project established with OPUS, SKI PRO static GPS processing, and Starnet least squares adjustment.

Project Specific Basis of Horizontal Control

#28 NOS FERRY 1981 : 3.75" brass cap located in abutment at the SE end of Ferry Transfer Bridge.

HNH05-Grid N 603456.8170 FT US, E 297582.6241 FT US

AKSPC N 2299376.7464 FT US AKSPC E 2339745.9226 FT US

#12 COE HH-A : 3.25" brass cap located concrete dock at the NE corner of Hoonah Harbor.

HNH04-Grid N 600000.0000 FT US, E 300000.0000 FT US

AKSPC N 2295858.1264 FT US AKSPC E 2342071.6656 FT US

Local coordinates are as follows:

POINT 7 NORTH: 600276.8474' EAST: 299775.7478' EL: 25.06' USACE_BC_1217-83-7

POINT 9 NORTH: 599846.4038' EAST: 300178.9732' EL: 22.96' USACE_BC_1217-83-9

POINT 12 NORTH: 600000.0000' EAST: 300000.0000' EL: 22.88' USACE_BC_HH-A

POINT 13 NORTH: 599513.3802' EAST: 300606.7271' EL: 20.99' USACE_BC_HH-B

POINT 28 NORTH: 603456.8170' EAST: 297582.6241' EL: 26.70' GPS_NOS_BC3.5_"FERRY_1981"

*Elevations given for a check only. Please use "NOS FERRY-1981" for vertical basis.

VERTICAL CONTROL:

The Project Specific Basis of Vertical Control is NOS FERRY-1981 having published elevation of 26.55 feet above MLLW. NOAA tide station 9452441. 1960-1978 tidal epoch publish date 11/2/1989.

Ellipsoid offset is 7.78'. This means add 7.78' to true ellipsoid elevations to make geoid '99 produce orthometric heights related to MLLW.

NOTE:

Whether listed or not, all monuments or property markers or accessories which will be disturbed or buried shall be referenced prior to being disturbed and re-established in their original position and a record of monument form in accordance with A.S. 34.65.040 shall be submitted to the construction engineer for review prior to recording.

Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

ALIGNMENT DATA

POINT DATA				TANGENT DATA		CURVE DATA			
DESCRIPTION	STATION	NORTHING	EASTING	DISTANCE	BEARING	TANGENT	LENGTH	RADIUS	DELTA
CENTERLINE - "O"-LINE									
POT	10+00.00	600288.48	300028.76	145.80'	S86°58'21"W				
PC	11+45.80	600280.78	299883.16			62.32'	121.59'	-225'	30° 57' 48.2"
PT	12+67.40	600242.65	299769.26	273.37'	S56°00'32"W				
POT	15+40.77	600089.81	299542.60						
"T"-LINE									
PT	8+67.00	600167.61	299657.97	133.00'	N73°52'08"W				
POT	10+00.00	600204.21	299530.21						

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

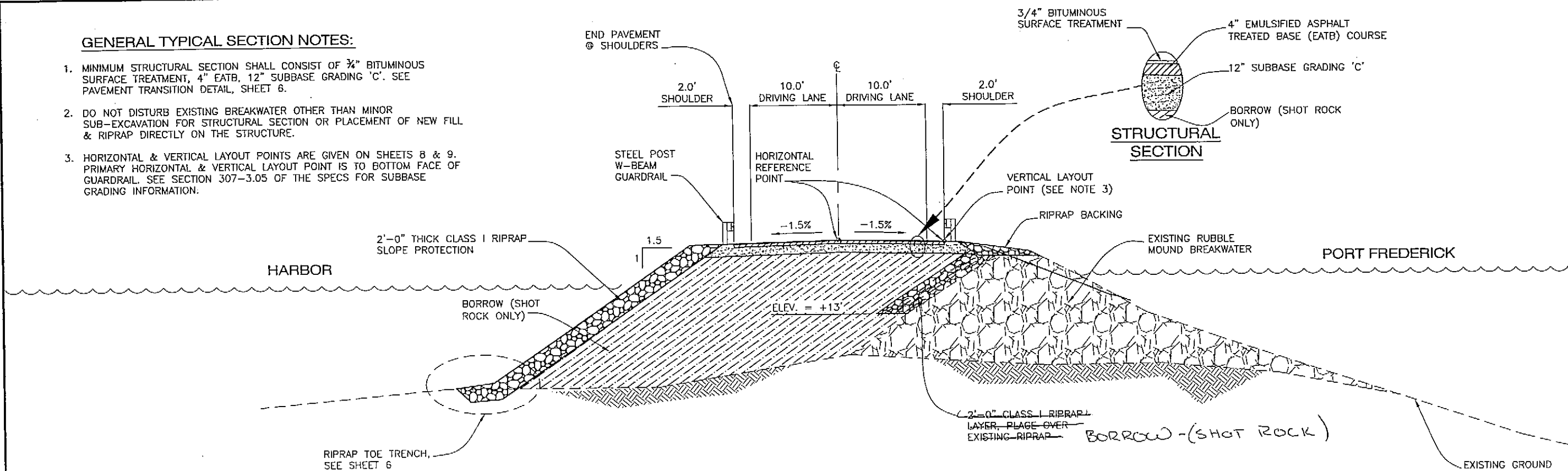
Proj. Engr. *J. Berger* Date *1/1/06*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

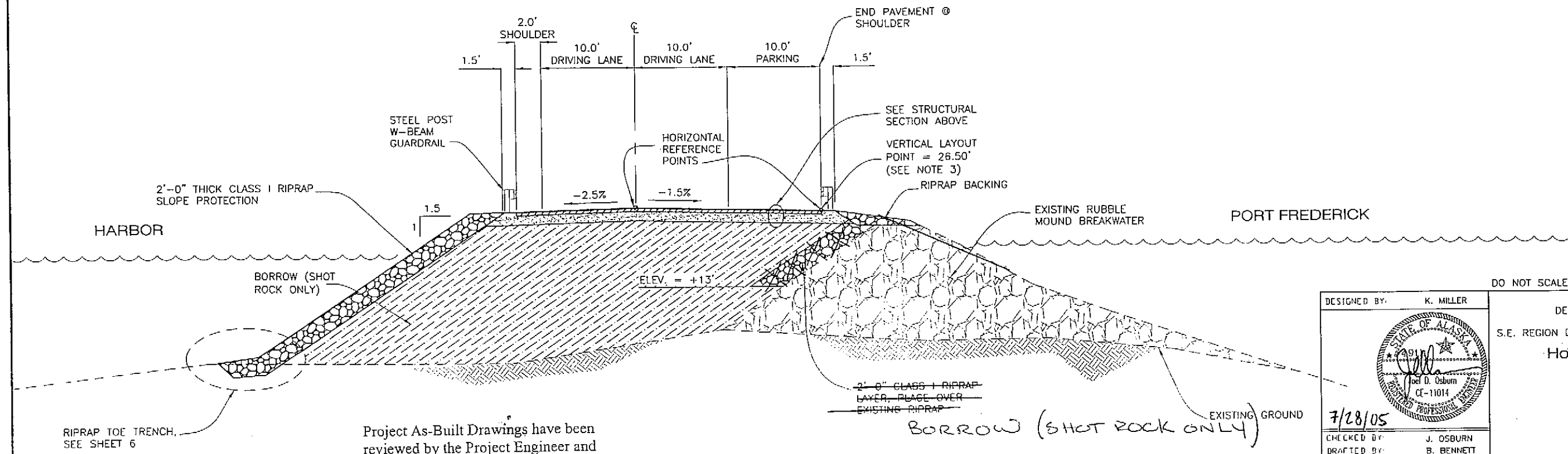
DESIGNED BY: T.R. REED	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement						
							
CHECKED BY: T.R. REED DRAFTED BY: B. BENNETT	Survey Data Sheet						
DATE: PLOT: REVISIONS: <table><thead><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr></tbody></table>	NO.	DATE	DESCRIPTION				PROJECT DESIGNATION: 68348 YEAR: 2005 SHEET NO: 4 TOTAL SHEETS: 36
NO.	DATE	DESCRIPTION					

GENERAL TYPICAL SECTION NOTES:

1. MINIMUM STRUCTURAL SECTION SHALL CONSIST OF 3/4" BITUMINOUS SURFACE TREATMENT, 4" EATB, 12" SUBBASE GRADING 'C'. SEE PAVEMENT TRANSITION DETAIL, SHEET 6.
2. DO NOT DISTURB EXISTING BREAKWATER OTHER THAN MINOR SUB-EXCAVATION FOR STRUCTURAL SECTION OR PLACEMENT OF NEW FILL & RIPRAP DIRECTLY ON THE STRUCTURE.
3. HORIZONTAL & VERTICAL LAYOUT POINTS ARE GIVEN ON SHEETS 8 & 9. PRIMARY HORIZONTAL & VERTICAL LAYOUT POINT IS TO BOTTOM FACE OF GUARDRAIL. SEE SECTION 307-3.05 OF THE SPECS FOR SUBBASE GRADING INFORMATION.



TYPICAL SECTION
STA. "O" 10+13 - 11+90



TYPICAL SECTION
STA. "O" 12+50 - 14+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. *J. Berger* Date *1/10/07*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

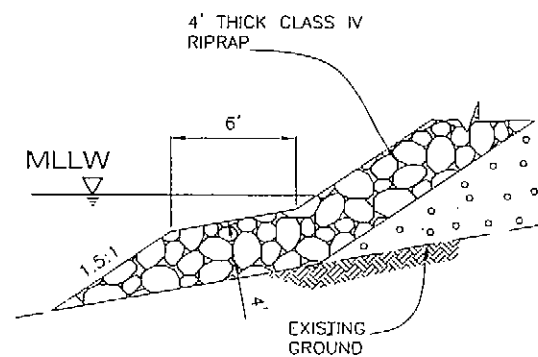
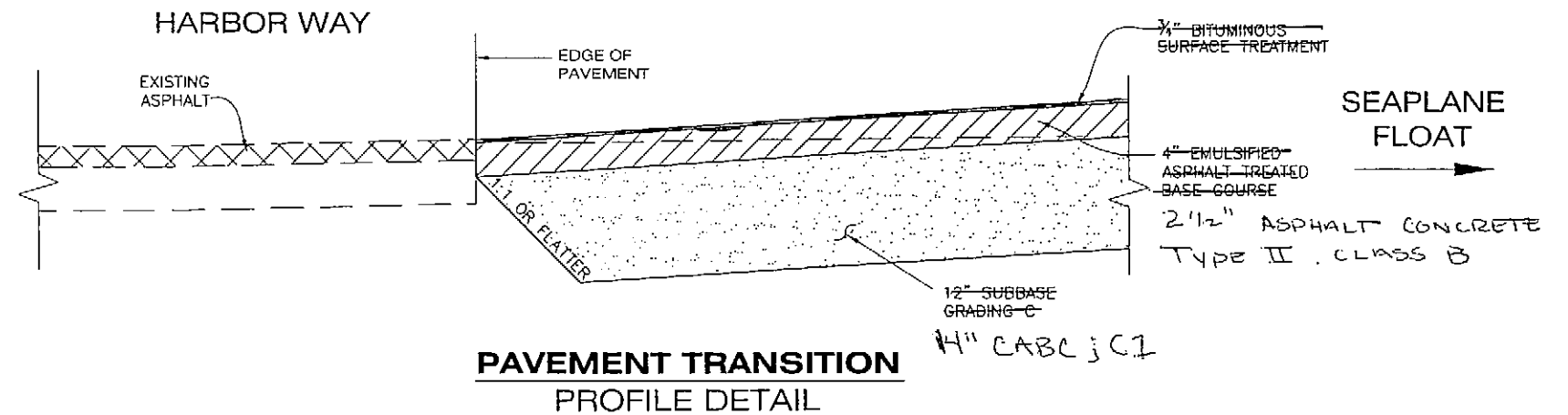
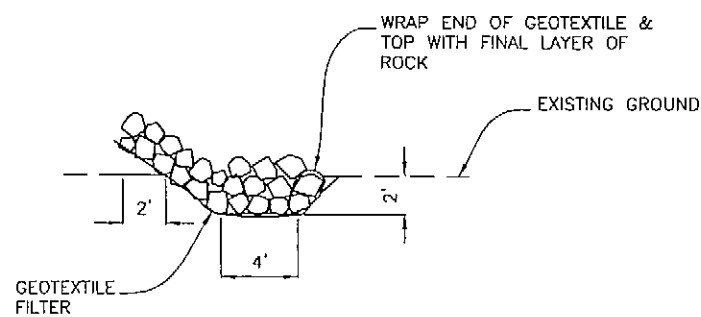
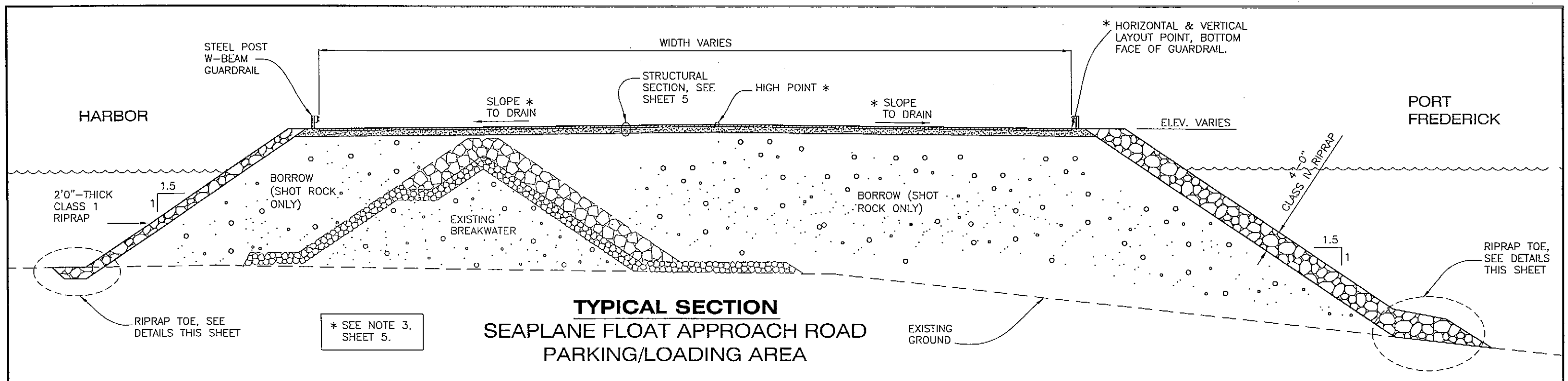
DESIGNED BY: K. MILLER
CHECKED BY: J. OSBURN
DRAFTED BY: B. BENNETT
DATE: 7/28/05
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float
Replacement

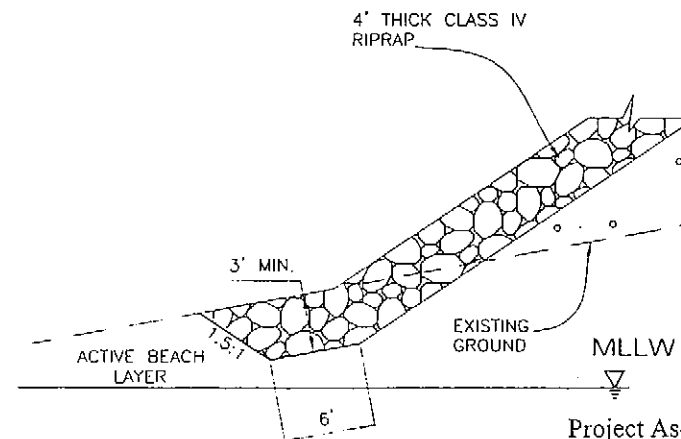
Typical
Sections

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
NO.	DATE				
		68348	2005	5	36



RIPRAP TOE
DETAIL 'A'

SEE SHEET 9 FOR LOCATIONS.



RIPRAP TOE
DETAIL 'B'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Eng. BERGAM Date 8/1/07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. MILLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement			
CHECKED BY: J. OSBURN DRAFTED BY: B. BENNETT		Miscellaneous Typical Sections			
PATH: D:\Hn\68348\Plonset\Uplands\Bi-Typs.dwg PLOT: PSPACE 1=1 TAB: DETAIL		PROJECT DESIGNATION: 68348			
NO. DATE DESCRIPTION		YEAR	SHEET NO.	TOTAL SHEETS	
		2005	6	36	

BASIS OF ESTIMATE		
Item No.	Item	Estimating Factor
304(1)	Subbase Grading C	1.96 Tons / Cubic Yard
307 (2)	Emulsified Asphalt, Type CSS-1	1.7 gal/sy
307 (2)	Emulsified Asphalt, Type CSS-1	243 gal/ton
307 (4)	Portland Cement	4.5 lbs/sy
405(1)	CRS-2P Emulsified Asphalt for Surface Treatment	243 gal/ton
405(1)	CRS-2P Emulsified Asphalt for Surface Treatment	0.6 gal/ S.Y. B Chips
405(1)	CRS-2P Emulsified Asphalt for Surface Treatment	0.55 gal/ S.Y. E Chips
405(2)	Aggregate for Surface Treatment, Grading B	1.96 Tons / Cubic Yard
405(2)	Aggregate for Surface Treatment, Grading B	55 lbs/ S.Y.
405(3)	Aggregate for Surface Treatment, Grading E	1.96 Tons / Cubic Yard
405(3)	Aggregate for Surface Treatment, Grading E	30 lbs/ S.Y.

DELETED FROM
CONTRACT

606 (1) - GUARDRAIL SUMMARY				
"O" Station - Station	Off.	Len.	BCT	Remarks
10+44.37				
"O" 40+00 - "T" 9+97	RT	530	1	Install CRT at intersection of Harbor Way & Seaplane Rd.
"O" 10+10 - "T" 9+96	LT	620	1	Install CRT at intersection of Harbor Way & Seaplane Rd.
TOTAL		1150	2	

1115 UPDATED 6/23/2005

615(1) - STANDARD SIGN SUMMARY							
Number	Station	Off.	Desc.	ASDS Code	Dim. (HxW)	Area (sf)	Remarks
1	Harbor Way	RT	SEAPLANE SYMBOL	SIGNS 'D' 'E' & 'F'	24x24	4.0	SEE SIGN DETAILS, SHEET 36; ALL SHARE SAME POST
			SEAPLANE (spelled out)		6x24	1.0	
			ARROW		6x24	1.0	
2	Harbor Way	LT	SEAPLANE SYMBOL	SIGNS 'D' 'E' & 'F'	24x24	4.0	SEE SIGN DETAILS, SHEET 36; ALL SHARE SAME POST
			SEAPLANE (spelled out)		6x24	1.0	
			ARROW		6x24	1.0	
3	"O" 10+25	LT	HARBOR WAY	D3-1	8x48	3.0	SAME POST AS STOP SIGN
4	"O" 10+25	LT	STOP	R1-1	30x30	6.5	
5	"O" 10+59	RT	15 MPH	W13-1	24x24	4.0	SEE SIGN DETAILS, SHEET 36; SHARE SAME POST
6	"T" 9+92	RT	STATE OF ALASKA PUBLIC SEAPLANE FLOAT...	SIGN 'B'	30x36	7.5	
7			GANGWAY LOAD LIMIT...	SIGN 'C'	12x24	2.0	SEE SIGN DETAILS, SHEET 36
8	Seaplane Float	RT	WARNING BOATS PROHIBITED...	SIGN 'A'	30x36	7.5	
9	Seaplane Float	LT	STATE OF ALASKA PUBLIC SEAPLANE FLOAT...	SIGN 'B'	30x36	7.5	SEE SIGN DETAILS, SHEET 36

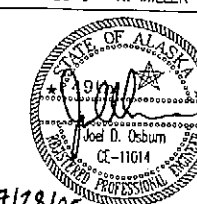
Hoonah Public Seaplane Float

SUM= 50

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr J. B. O'SBURN Date 10/1/07

DESIGNED BY: K. MILLER



7/28/05

CHECKED BY: J. O'SBURN
DRAFTED BY: D. BENNETT

PATH: O:\Hnh\68348\PlanSet\Uplands\C1-Sums.dwg
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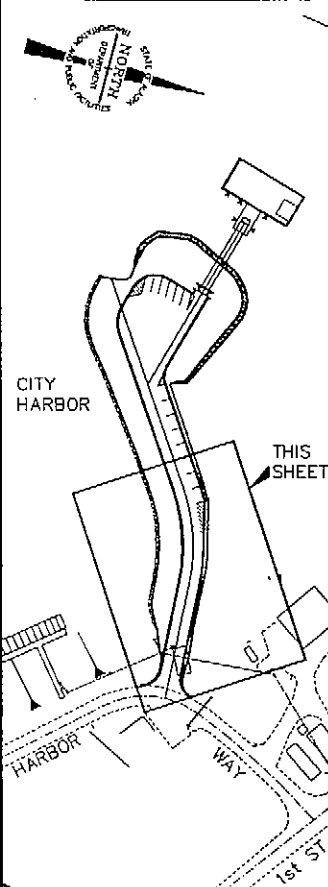
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
Hoonah Seaplane Float
Replacement

Uplands Basis of Estimate &
Miscellaneous Summaries

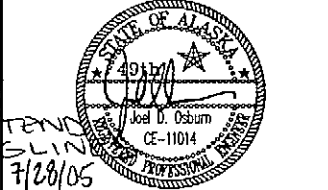
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			68348	2005	7	36

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. MILLER



DESIGNED BY: J. OSBURN

DRAWN BY: B. BENNETT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.C. REGION DESIGN & ENGINEERING
SERVICES DIVISION
Hoonah Seaplane Float
Replacement

PLAN LAYOUT
SHEET

PROJECT DESIGNATION

68348

STATE YEAR

ALASKA 2005

SHEET NUMBER TOTAL SHEETS

8 36

LEGEND:

- ▲— = RIPRAP SLOPE ARROW
- OE— = OVERHEAD ELECTRIC
- ▨ = RIPRAP TOE DETAIL 'A'
- ▩ = RIPRAP TOE DETAIL 'B'
- ▧ = RIPRAP TOE HARBOR DETAIL
- ## = LAYOUT POINT NUMBER
- ⑤ = SIGN NUMBER

GUARDRAIL
CURVE DATA
Δ = 5°51'52"
R = 245.00
L = 25.08
T = 12.55

GUARDRAIL
CURVE DATA
Δ = 10°25'01"
R = 237.00
L = 43.09
T = 21.60

CURVE DATA
Δ = 30°57'48"
R = 225.00
L = 121.59
T = 62.32

GENERAL NOTES:

1. SEE SHEET 5 & 6 FOR TYPICAL SECTIONS.
2. PAINTED TRAFFIC MARKING WIDTHS ARE AS FOLLOWS:
4-INCH WHITE FOGLINE
4-INCH YELLOW AT CENTERLINE & DIAGONALS
2-FOOT WHITE STOP BAR
3. SEE SHEET 4 FOR MONUMENTATION AND CENTERLINE ALIGNMENT INFORMATION.
4. REFER TO SHEET 7 FOR SIGN SUMMARIES.

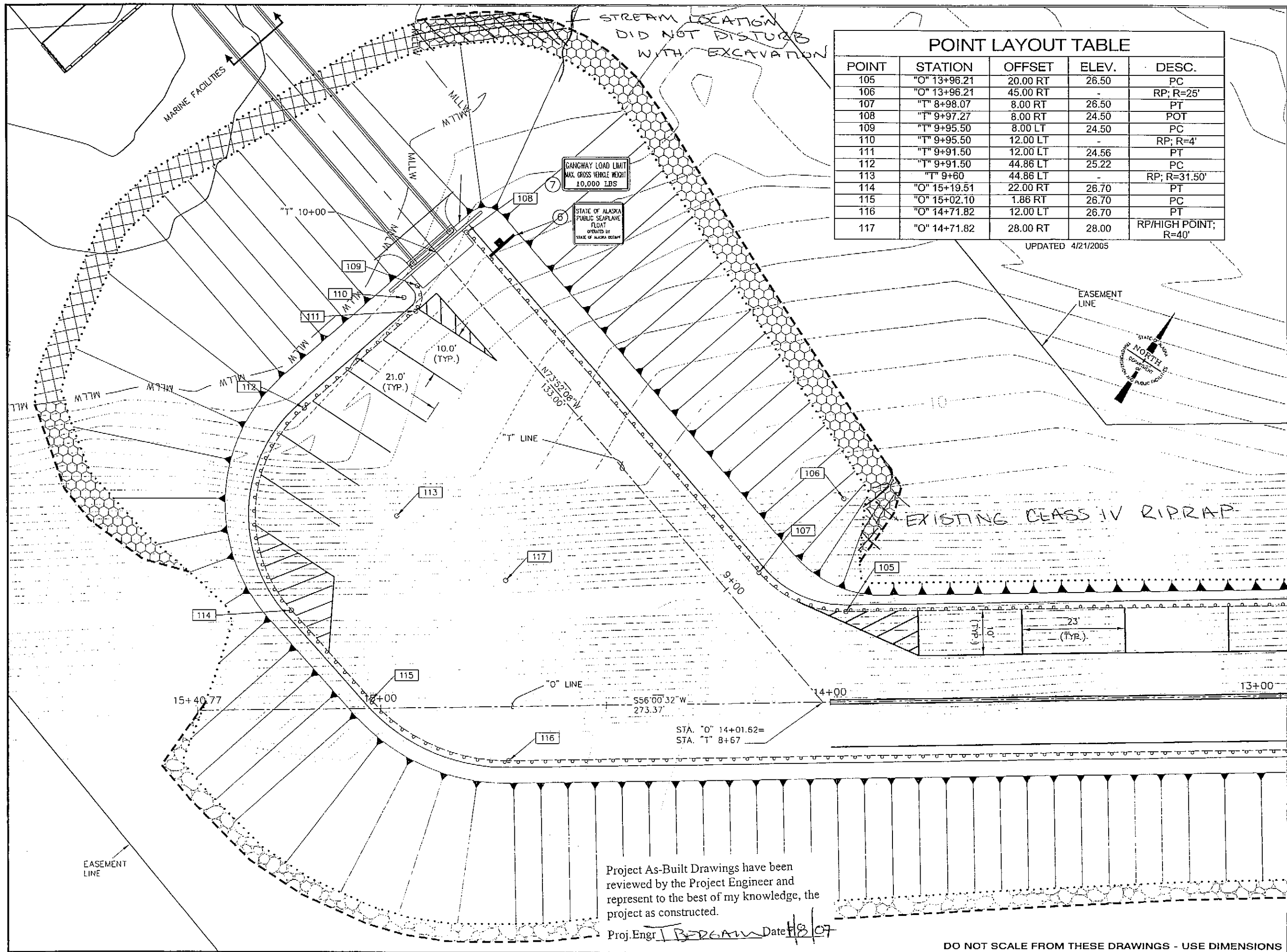
POINT LAYOUT TABLE

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101	"O" 11+45.80	12.00 RT	26.50	PC
102	"O" 11+87.12	12.00 RT	26.50	PT
103	"O" 12+44.37	20.00 RT	26.50	PC
104	"O" 12+67.34	20.00 RT	26.50	PT

UPDATED 4/21/2005

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. T. BERZGAM Date 8/1/06

DO NOT SCALE FROM THESE DRAWINGS - USE DIMENSIONS



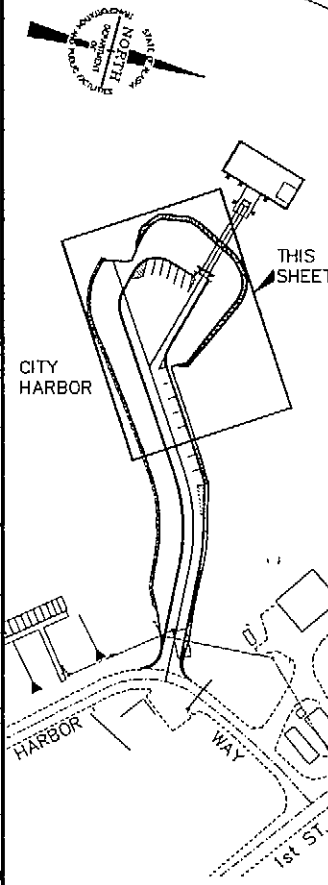
POINT LAYOUT TABLE				
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106	"O" 13+96.21	45.00 RT	-	RP; R=25'
107	"T" 8+98.07	8.00 RT	26.50	PT
108	"T" 9+97.27	8.00 RT	24.50	POT
109	"T" 9+95.50	8.00 LT	24.50	PC
110	"T" 9+95.50	12.00 LT	-	RP; R=4'
111	"T" 9+91.50	12.00 LT	24.56	PT
112	"T" 9+91.50	44.86 LT	25.22	PC
113	"T" 9+60	44.86 LT	-	RP; R=31.50'
114	"O" 15+19.51	22.00 RT	26.70	PT
115	"O" 15+02.10	1.86 RT	26.70	PC
116	"O" 14+71.82	12.00 LT	26.70	PT
117	"O" 14+71.82	28.00 RT	28.00	RP/HIGH POINT; R=40'

UPDATED 4/21/2005

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Thu, 28/Jul/05 03:03PM jdosburn
TAB: F2

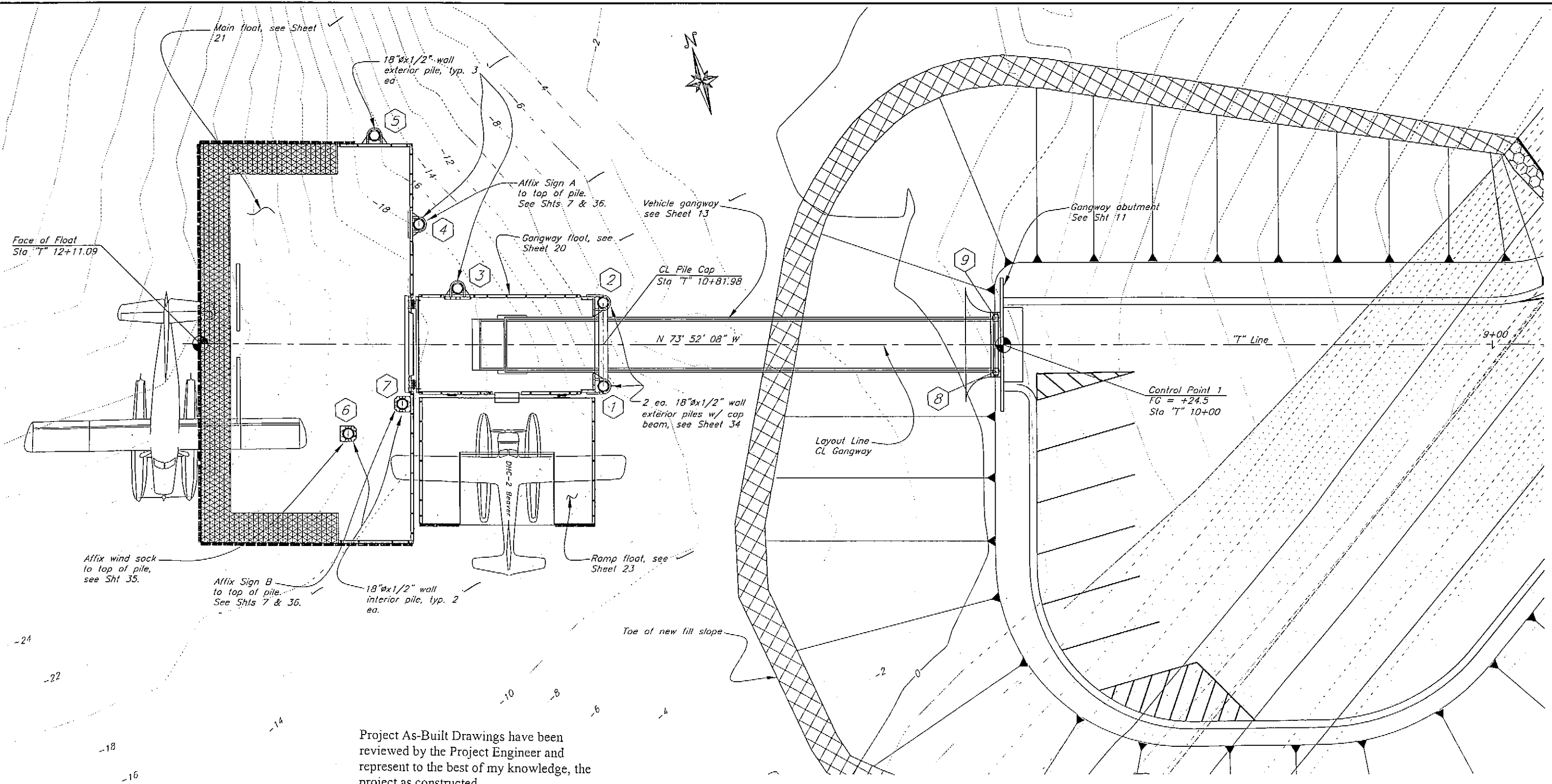
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: K. MILLER	
DESIGNED BY: J. OSBURN	
DRAWN BY: B. BENNETT	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement	
PLAN LAYOUT SHEET	
PROJECT DESIGNATION:	
68348	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
9	36

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. T. BERGMAN Date 11/8/07

DO NOT SCALE FROM THESE DRAWINGS - USE DIMENSIONS



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

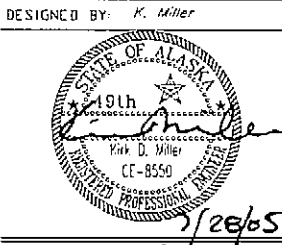
Proj. Engr. T. BERGMAN Date 1/8/06

Seaplane Facility Plan

COORDINATE CONTROL TABLE			
Control Point	North	East	Description
Control Point 1	600,204.0791	299,531.8728	Back edge of Abutment Back Wall / Sta "T" 10+00

- Notes:
- Elevations are in feet (MLLW).
 - Existing mudline (OG) elevations listed in table are approximate only.
 - Drive all piles to estimated tip elevation unless otherwise approved by the Engineer.
 - See specifications for additional pile driving requirements.

PILE DATA							
PILE LOCATION & STRUCTURE (ORIENTATION = VERTICAL, ALL PILES)	No. PILES	DIA x Wall (Inches)	ELEVATIONS (FT)		ESTIMATED TIP ELEVATION (FT)	ESTIMATED LENGTH (FT)	DESIGN CAPACITY (TONS)
			~ O.G.	CUT-OFF			
① Gangway Float	1	18"x1/2"	-12	33.50	-61.5	95.94.3	
② Gangway Float	1	18"x1/2"	-8	33.50	-61.5	95.94.3	
③ Gangway Float	1	18"x1/2"	-18	30.00	-70	100.10	
④ Main Float	1	18"x1/2"	-18	30.00	-70	100.10	
⑤ Main Float	1	18"x1/2"	-16	30.00	-70	100.15	
⑥ Main Float	1	18"x1/2"	-23	30.00	-70	100.15	
⑦ Main Float	1	18"x1/2"	-20	30.00	-70	100.10	
⑧ Abutment	1	18"x1/2"	+2	20.15	21.15-39.85	80.68	20
⑨ Abutment	1	18"x1/2"	+4	20.15	21.15-39.85	80.68	20
TOTAL = 810 LF							



CHECKED BY: J. Beedie
 DRAFTED BY: Staff
 PATH: D:\Hnh\68348\MP\Plans\10-Seaplane Facility.dwg
 PLOT: PSPACE 1=1 Tab: Marine Site Plan Wed, 27/Jul/05 03:13PM

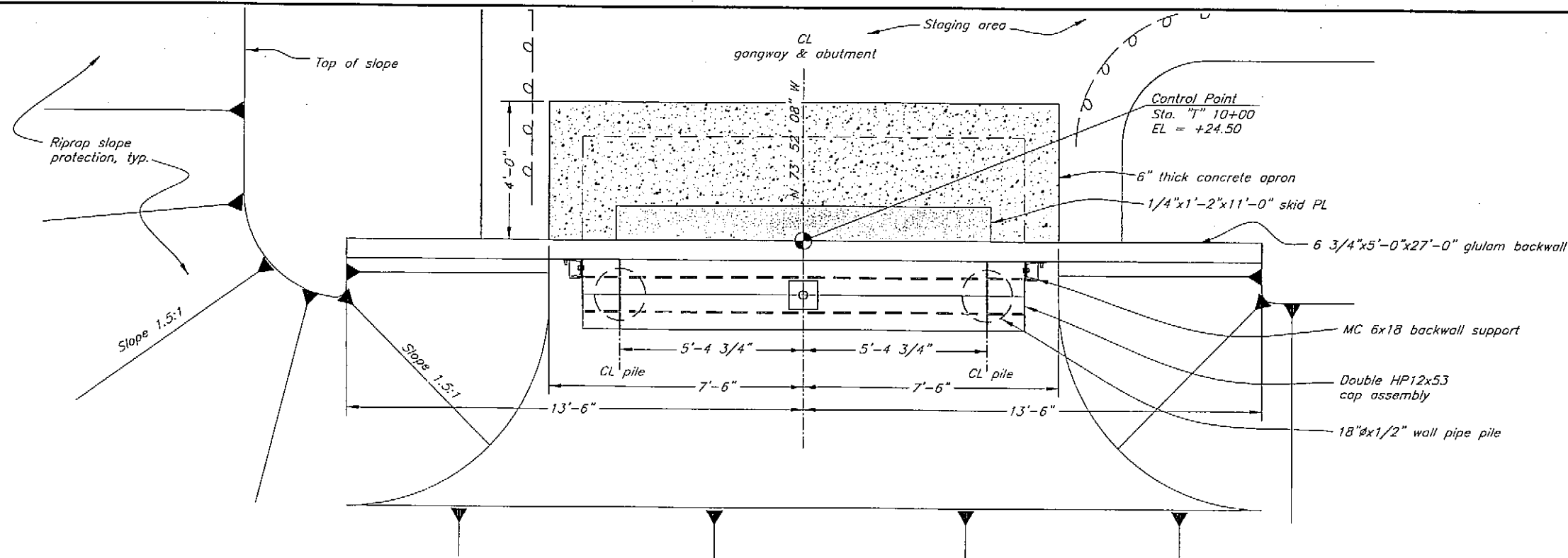
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

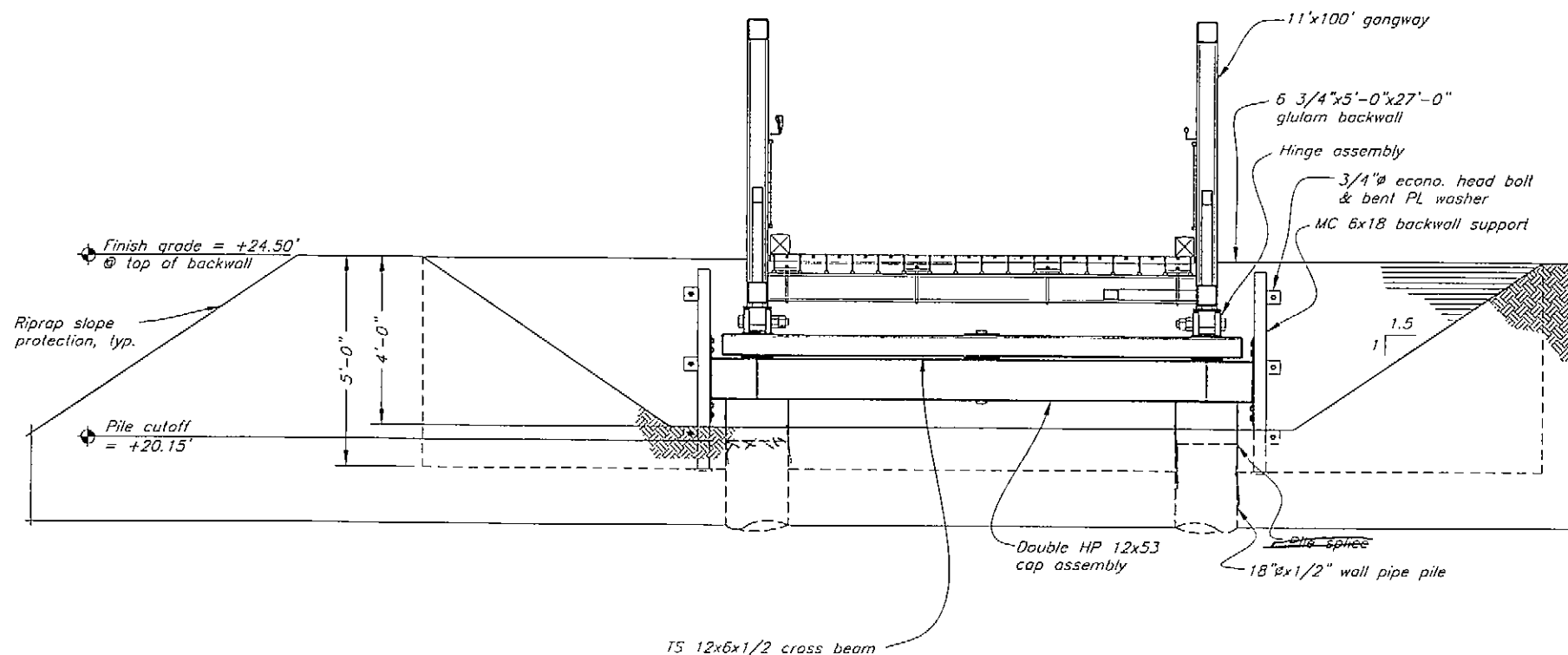
Hoonah Seaplane Float Replacement

Marine Facilities Plan / Layout

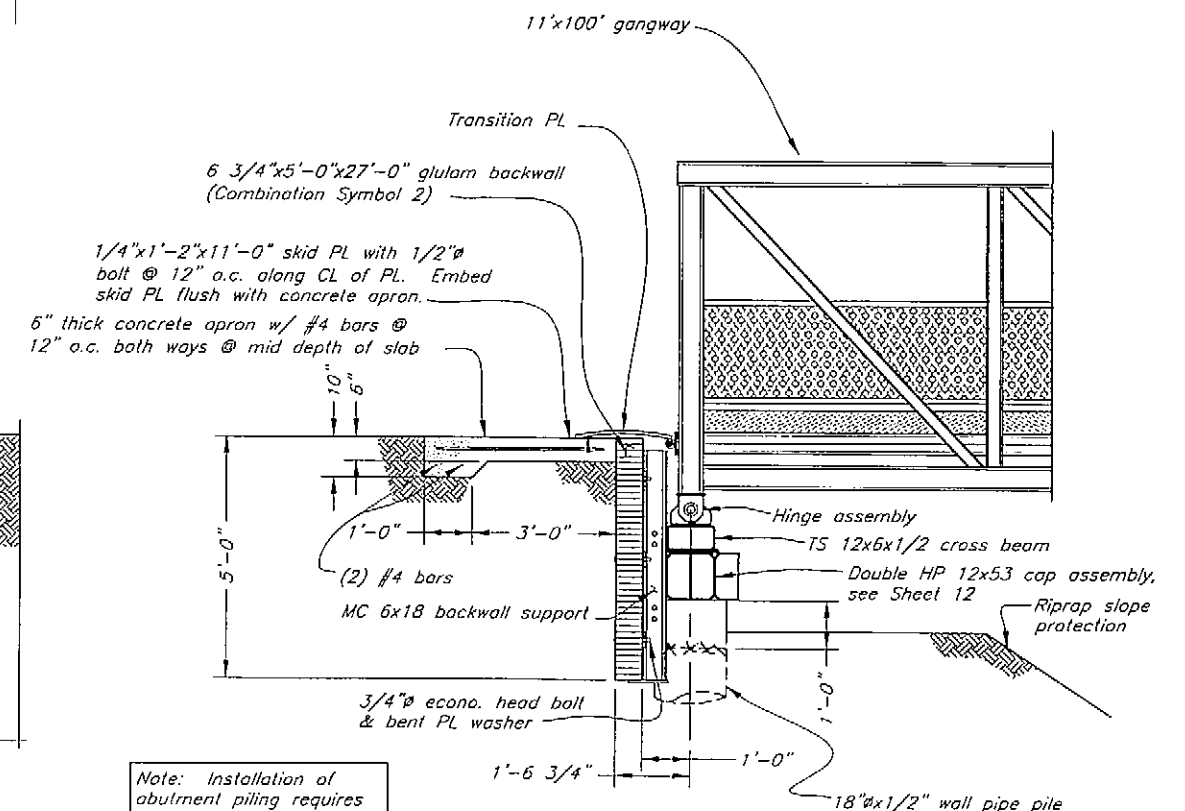
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
NO	DATE				
		68348	2005	10	36



Abutment Plan



Abutment Front View



Abutment Side View

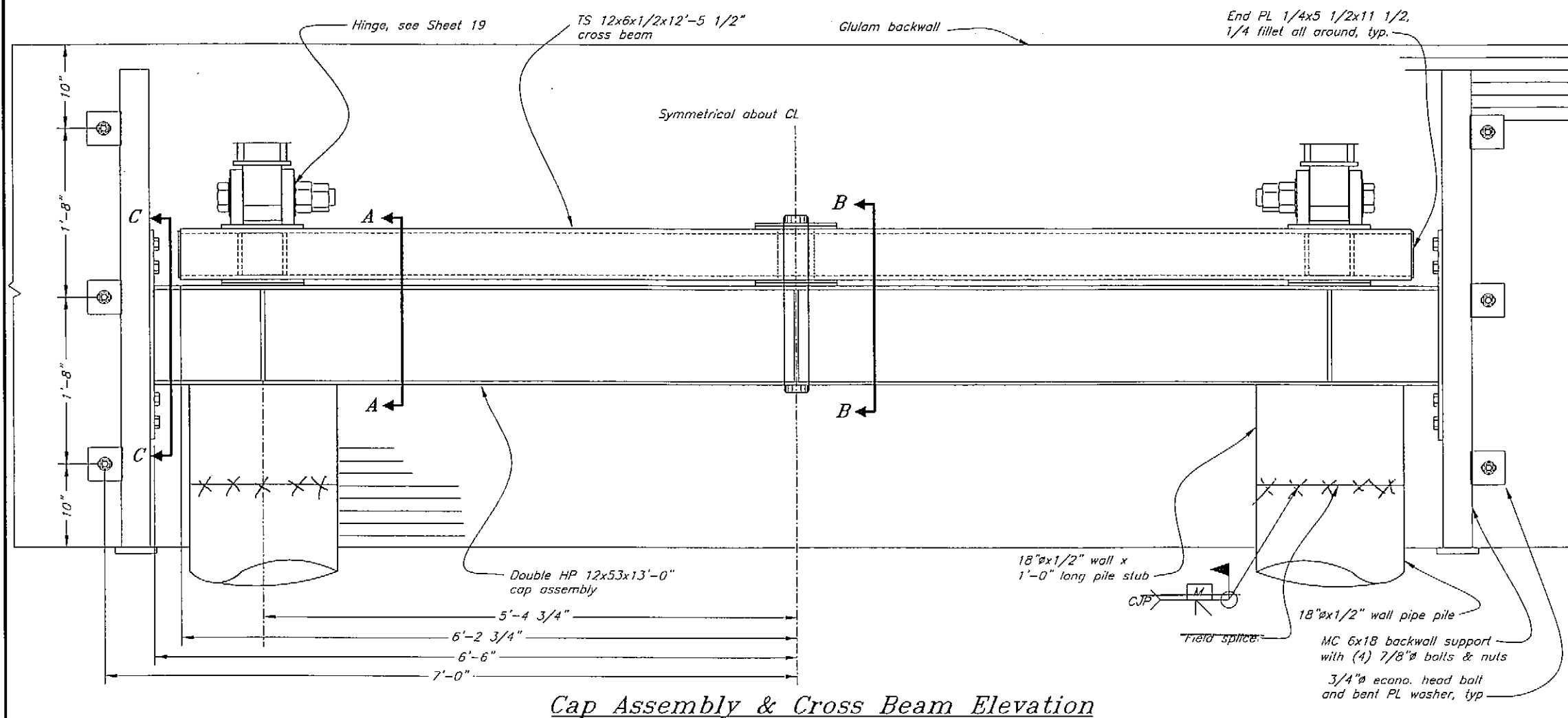
Note: Installation of abutment piling requires removal of existing riprap.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

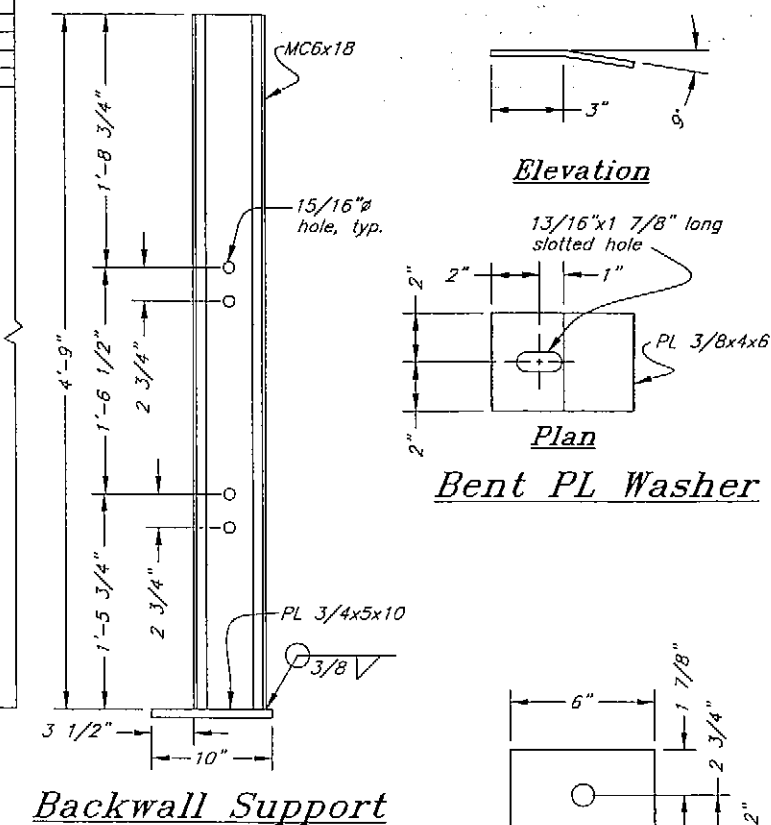
Proj. Engr. T. BERGMAN Date 8/67

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

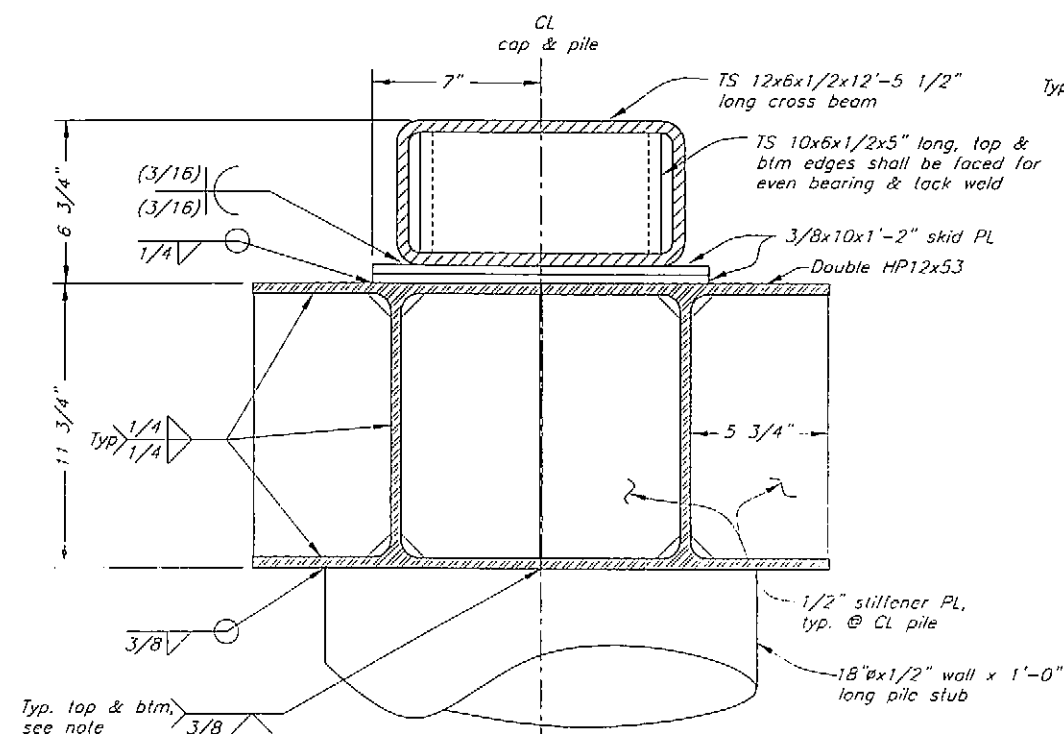
DESIGNED BY: T. Daggett		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION	
		Hoonah Seaplane Float Replacement	
CHECKED BY: J. Beedle		Abutment	
DRAFTED BY: T. Daggett/C. Fumon			
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NO.	DATE	REVISIONS DESCRIPTION	TOTAL SHEETS
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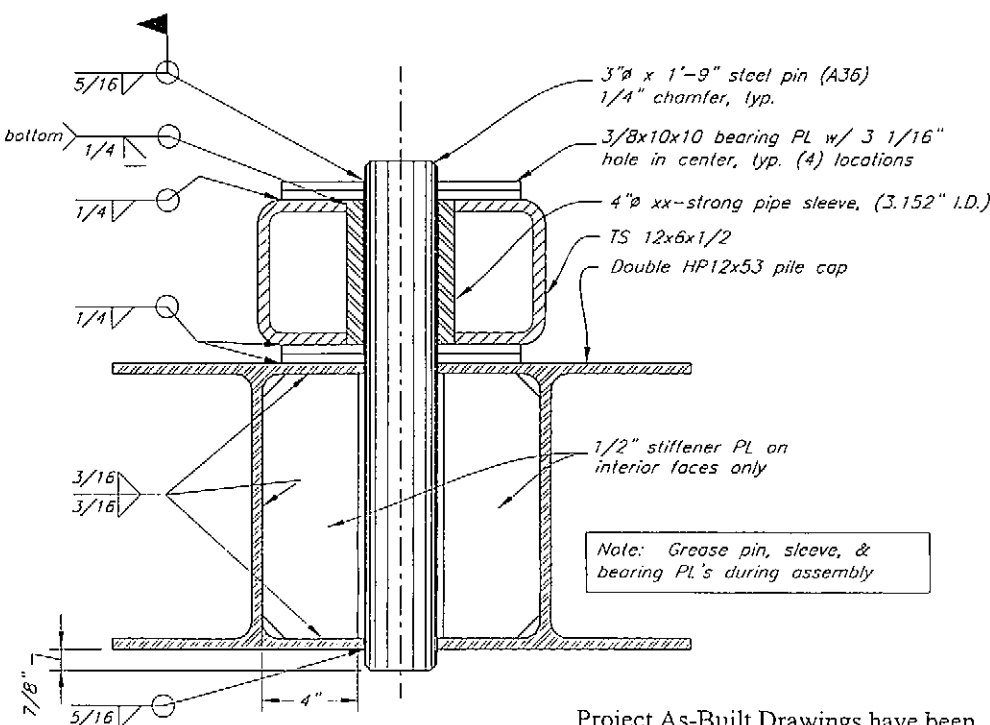
Cap Assembly & Cross Beam Elevation



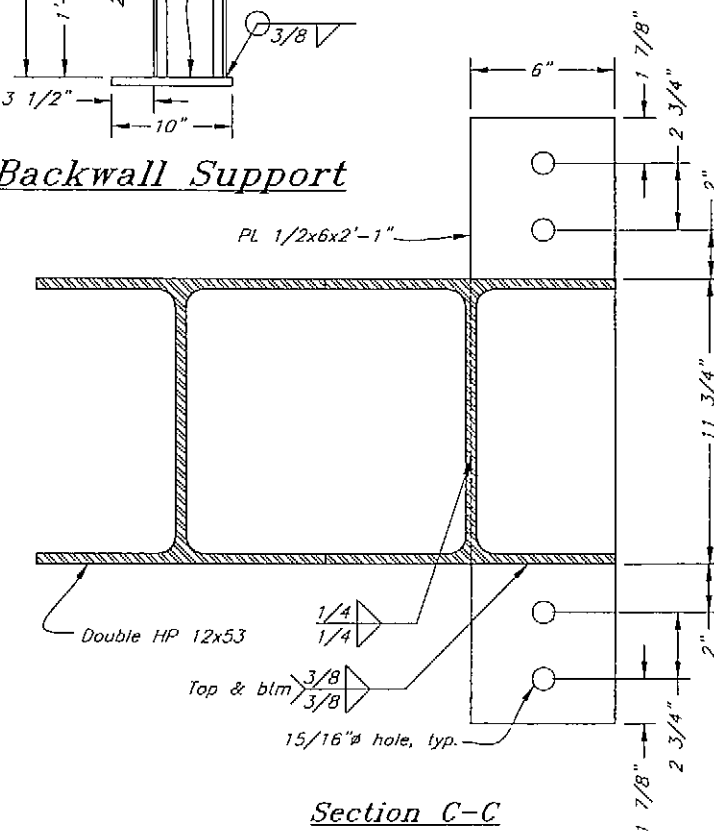
Backwall Support



Section A-A



Section B-B



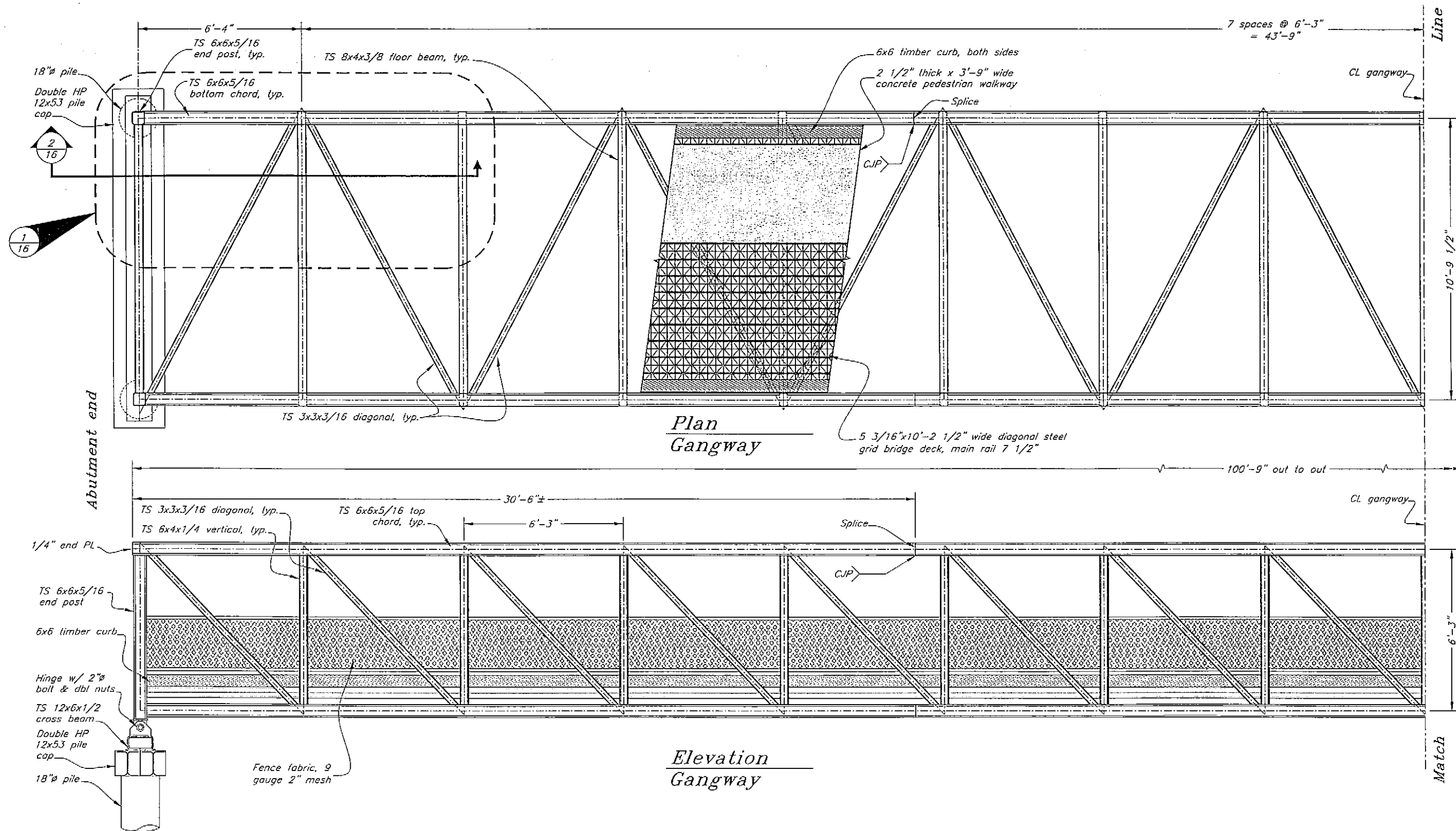
Section C-C

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. BERGAM Date 1/8/07

SEE SHOP DRAWINGS

DESIGNED BY: T. Daggett		DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement	
CHECKED BY: J. Beedle DRAFTED BY: T. Daggett/C. Fuman PATH: Q:\Hnh\68348\MF\Plans\12- Abutment details.dwg PLOT: PSPACE 1=1 Tab: Abut Details 3 Wed, 27/Jul/05 04:22PM		Abutment Details	
NO	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION
			68348
			2005
			12
			36



General Notes

1. Design basis is AASHTO Standard Specifications for Highway Bridges as modified by Guide Specifications for Design of Pedestrian Bridges. Design live pedestrian load is 85 psf (reduced to 65 psf where permitted by AASHTO) and live vehicle load is AASHTO H10 truck.
2. All steel pipe and structural tubing shall conform to ASTM A53 Grade B and ASTM A500 Grade B, respectively. Rolled steel shapes and miscellaneous plates shall conform to ASTM A36.
3. No bottom chord splices may be located in the middle third of the span.
4. Camber to compensate for dead load deflection (see Camber Diagram).
5. Ship assembled. Approximate weight = 60,000 lbs.
6. All welds joining tubular members and end plates are to seal the joint.
7. All steel surfaces to be hot dip galvanized.

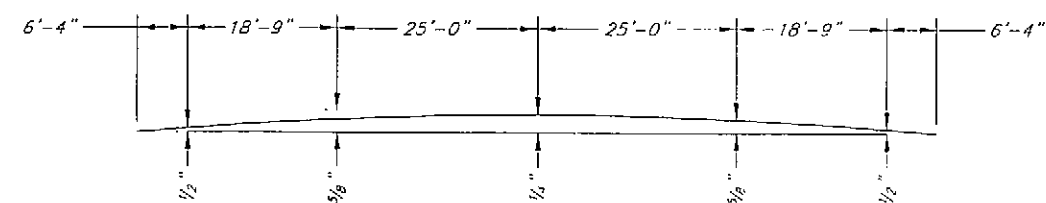
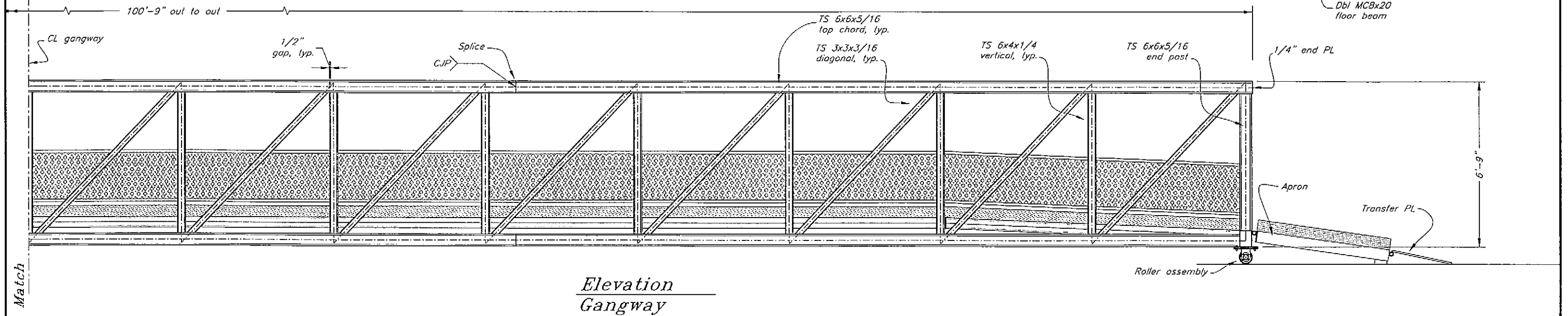
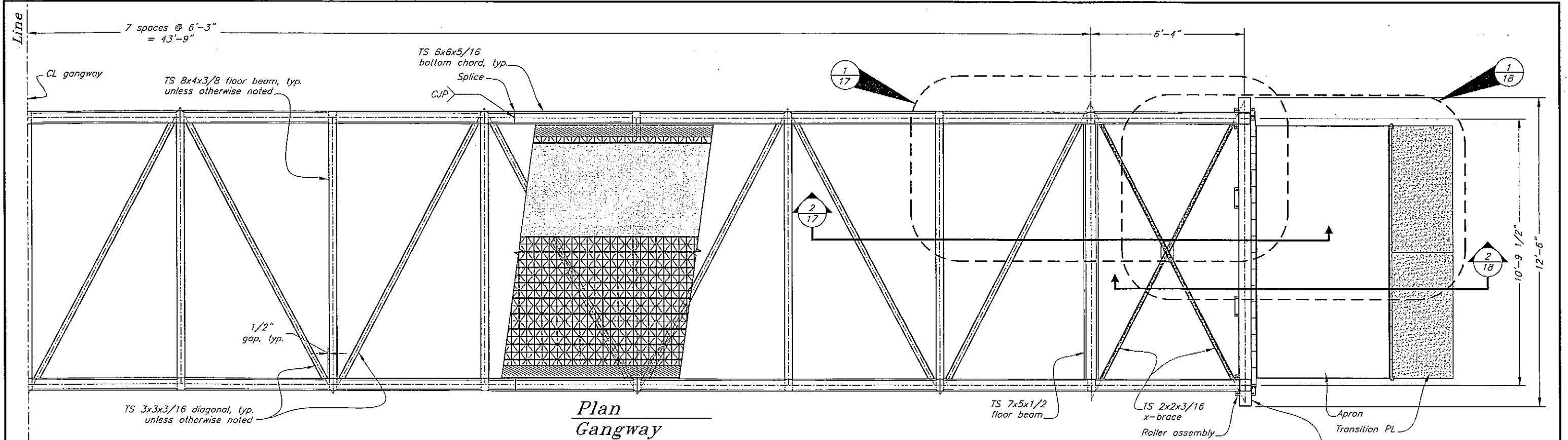
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. BERGMAN Date 1/2/07

SEE SHOP DRAWINGS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Daggett		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
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		Gangway			
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REVISIONS		2005			
DESCRIPTION		13			
		36			



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. BERGAMP Date: 8/6/07

SEE SHOP DRAWINGS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Daggett

CHECKED BY: J. Beedle

DRAFTED BY: T. Daggett/T. Mares

PATH: D:\Arch\68348\MF\PlanSet\14 Gangway 2.dwg

PLOT: PSPACE 1=1 Tab: Gangway 2 Wed, 21/Jul/05 04:18PM

STATE OF ALASKA
49th
Timothy H. Daggett
CC-9027
REGISTERED PROFESSIONAL ENGINEER

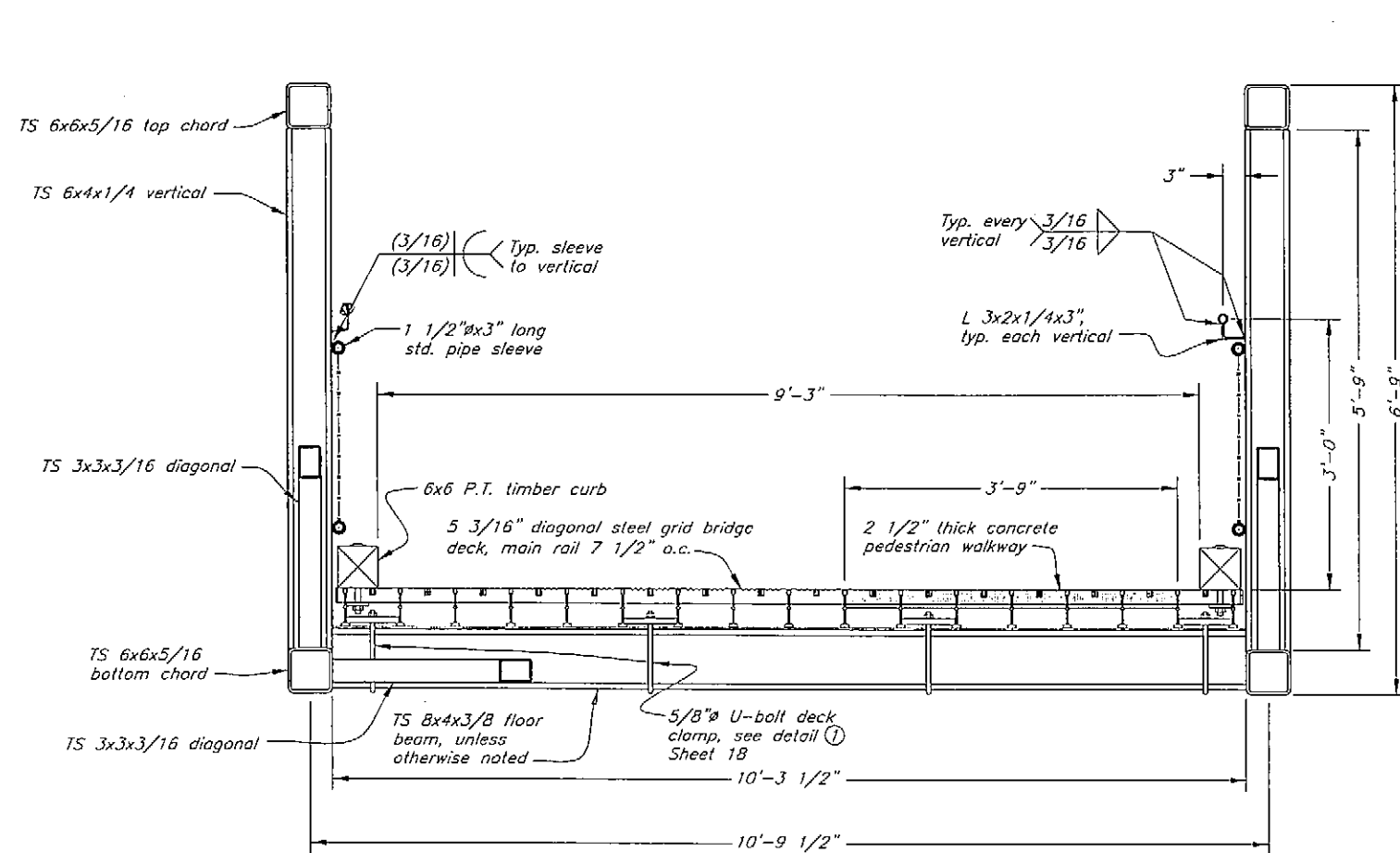
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

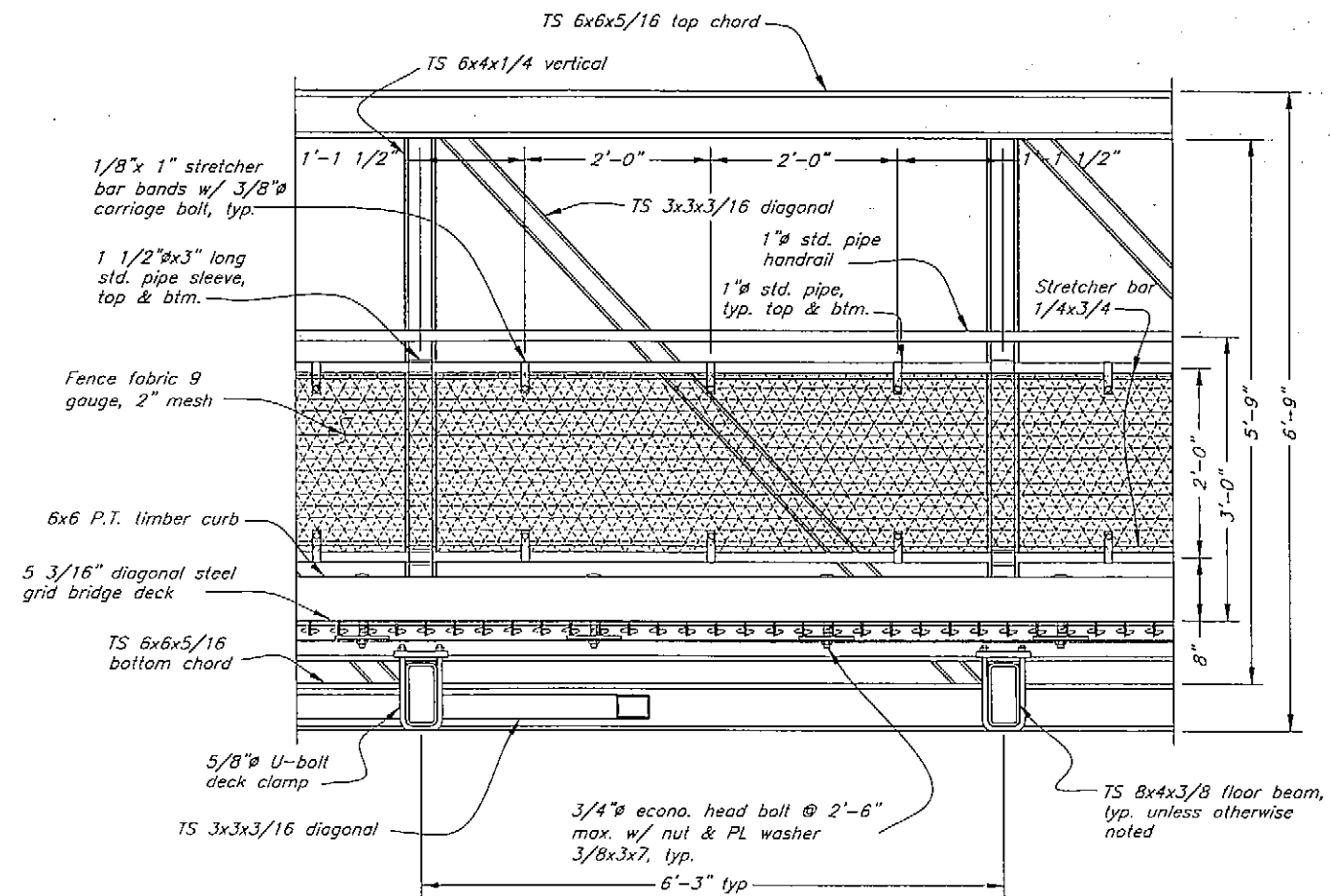
Hoonah Seaplane Float Replacement

Gangway

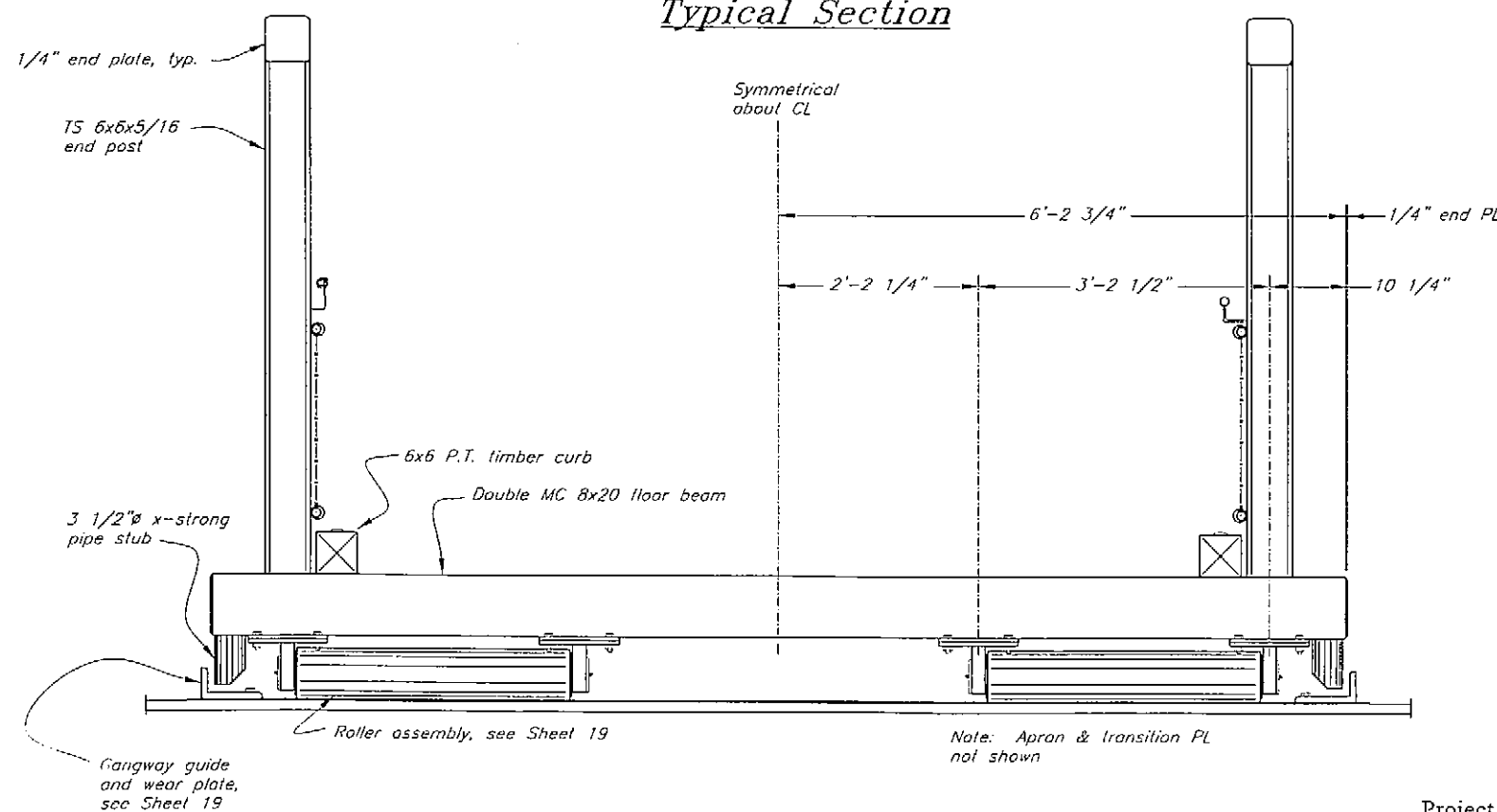
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Typical Section



Typical Interior Elevation

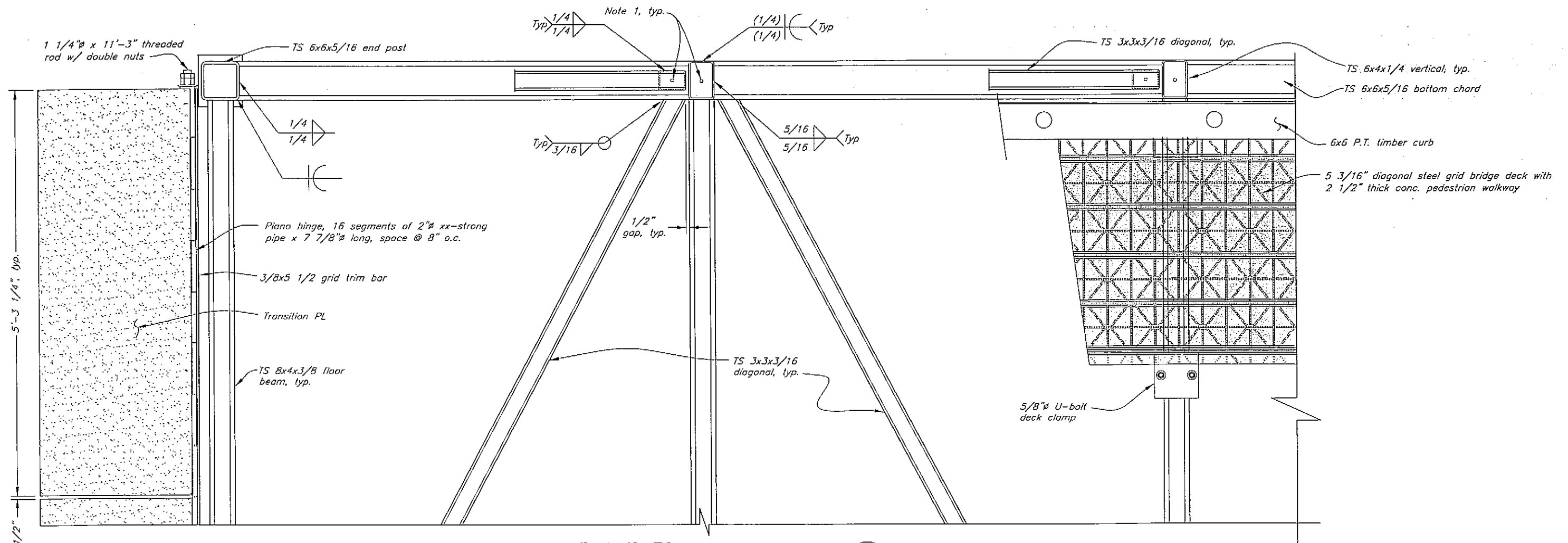


Elevation - Float End

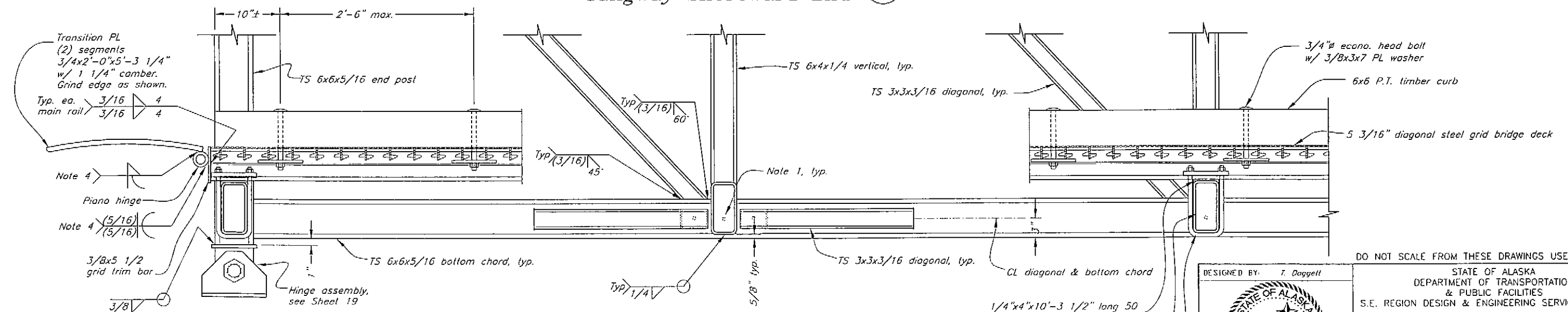
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. BERGAM Date 18/07

DESIGNED BY: T. Daggett		DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement			
		Gangway Typical Sections			
CHECKED BY: J. Beedle		PROJECT DESIGNATION: 68348			
DRAFTED BY: T. Daggett/C. Fumon		YEAR: 2005			
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NO	DATE	REVISIONS DESCRIPTION			



Detail Plan
Gangway Shoreward End 1
13



Section
Gangway Shoreward End 2
13

General Notes:

1. Provide 1/2" weep holes in the chords at all joints where the diagonals, verticals, & floor beams overlap.
2. Joints and splices in diagonal steel grid decking shall be detailed by the deck fabricator.
3. Wear surfaces of transition plates shall be coated with a non-slip, spray metallized abrasive prior to galvanizing.
4. Weld alternate hinge segments to transition PL and grid trim bar.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

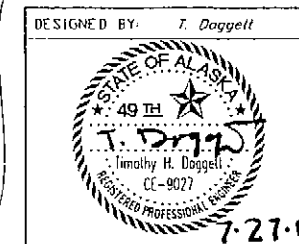
Proj. Engr BERGAM Date 1/8/07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float
Replacement

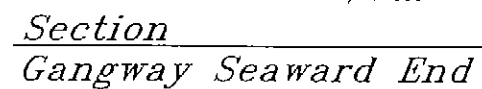
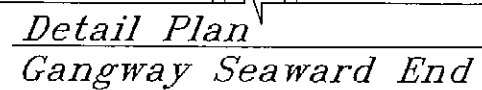
**Gangway
Shoreward End
Details**



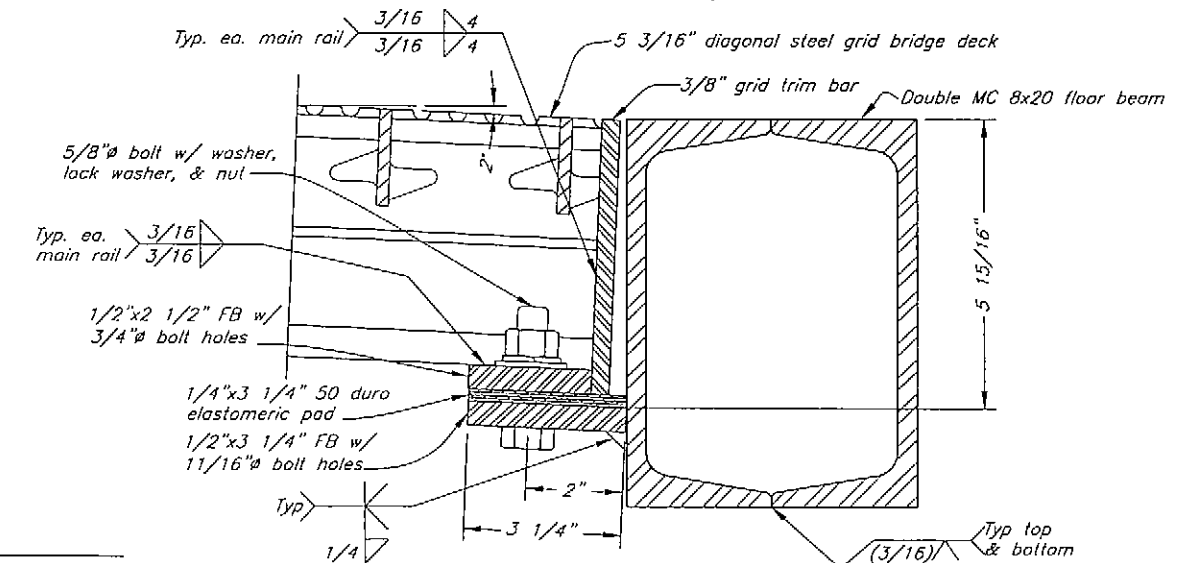
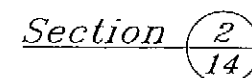
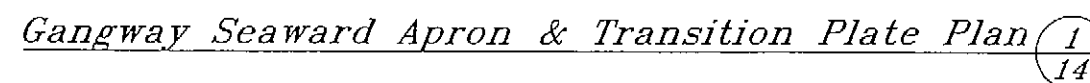
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CHECKED BY: J. Beedie
DRAFTED BY: T. Daggett/C. Fuman

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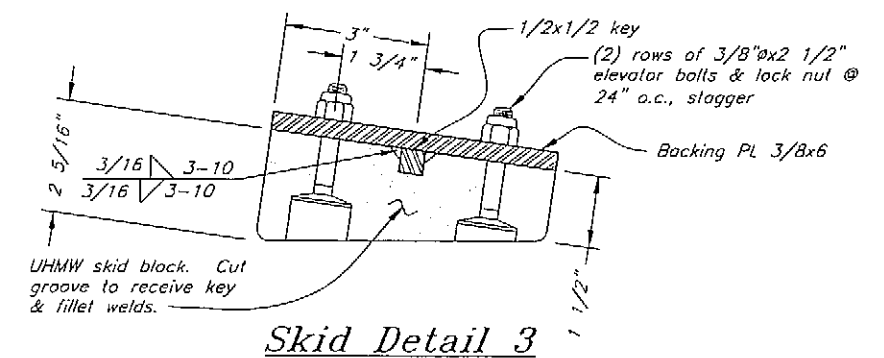
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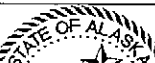
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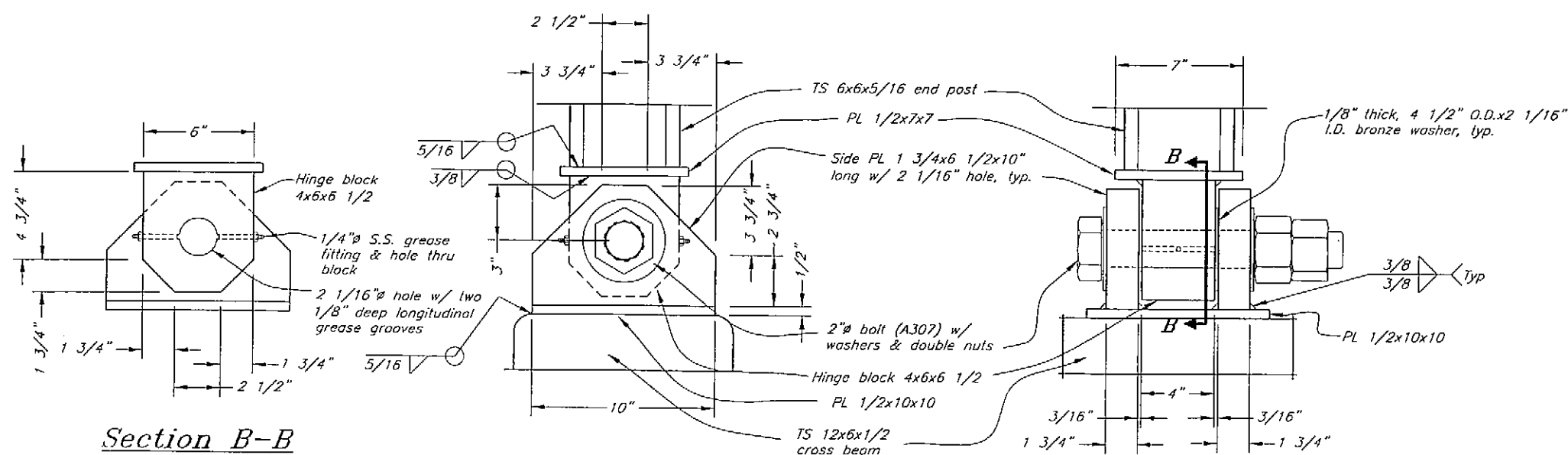
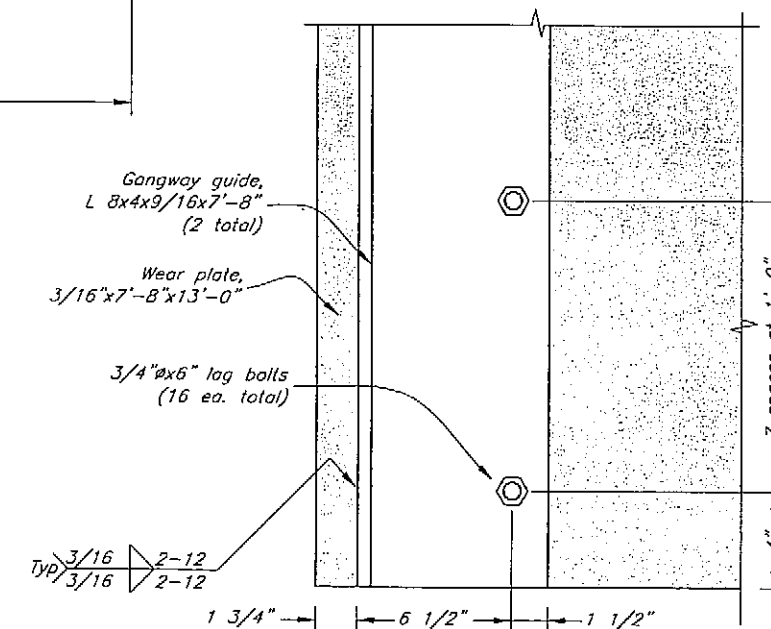
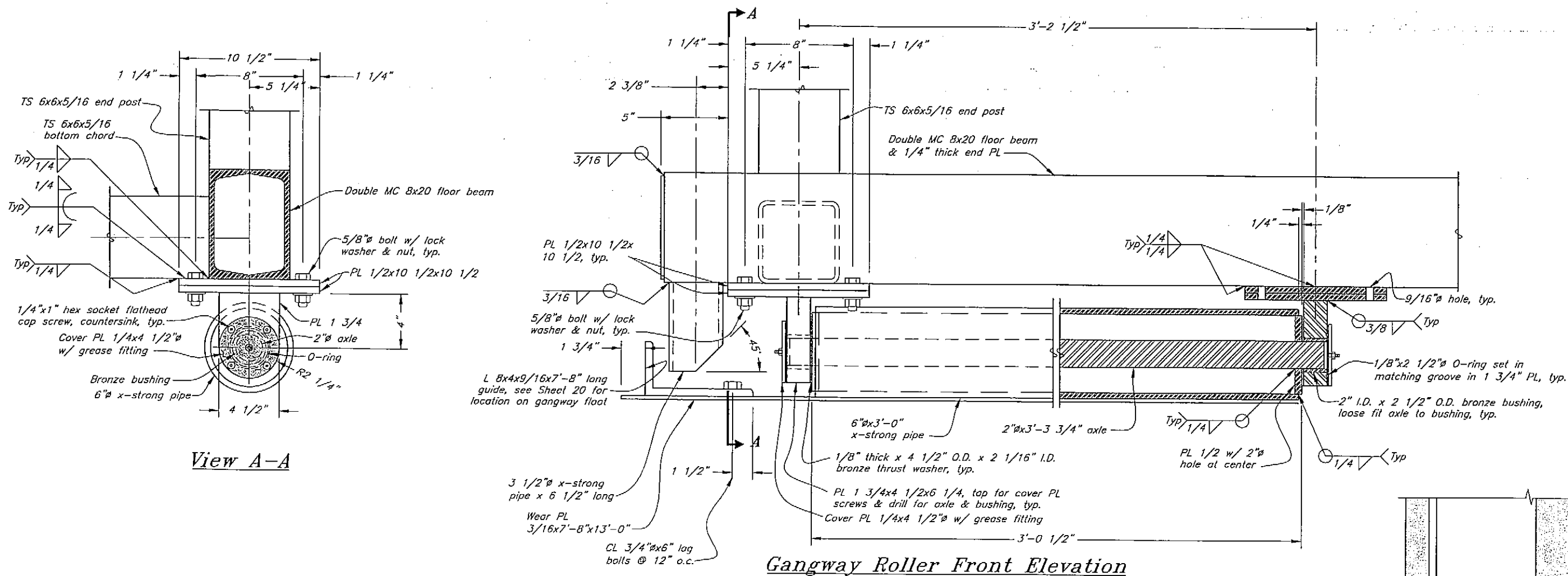


Seaward End Floor Beam Detail 2



Proj. Engr B. E. Z. A. M. Date 1/23/07

DESIGNED BY: <i>T. Doggett</i>  <i>7-27-05</i>		DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement Gangway Seaward Apron & Transition Plate																			
CHECKED BY: <i>J. Beedle</i> DRAWN BY: <i>T. Doggett/C. Fuman</i>		PATH: <i>C:\HNA\68348\MF\Plans\18 Gangway Seaward Apron & Trans PL.dwg</i> PLOT: PSPACE 1=1 <i>Tab: GW Details J Wed, 27/Jul/05 04:12PM</i>																			
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NO	DATE																				
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																		
68348	2005	18	36																		



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. Beacom Date 1/8/07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

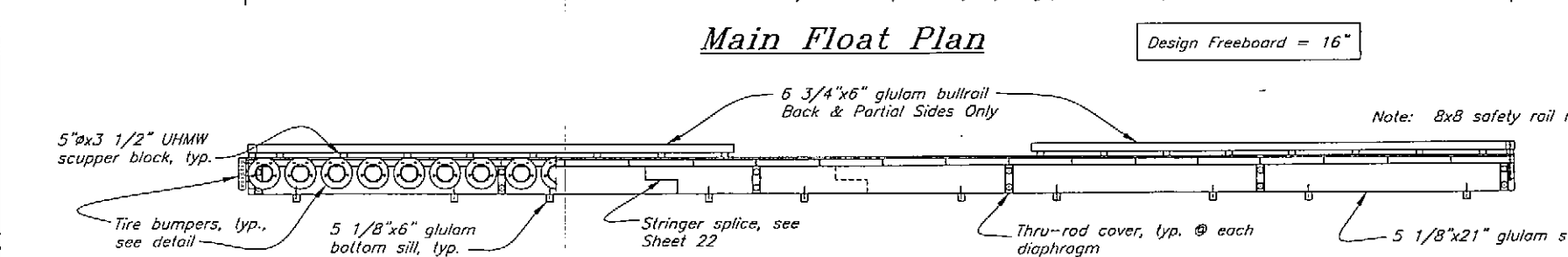
DESIGNED BY: T. Daggett
 CHECKED BY: J. Beadle
 DRAFTED BY: T. Daggett/C. Fuman
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 PLOT: PSPACE 1=1 Tab: Layout1 Wed, 27/Jul/05 04:11PM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
 Hoonah Seaplane Float Replacement

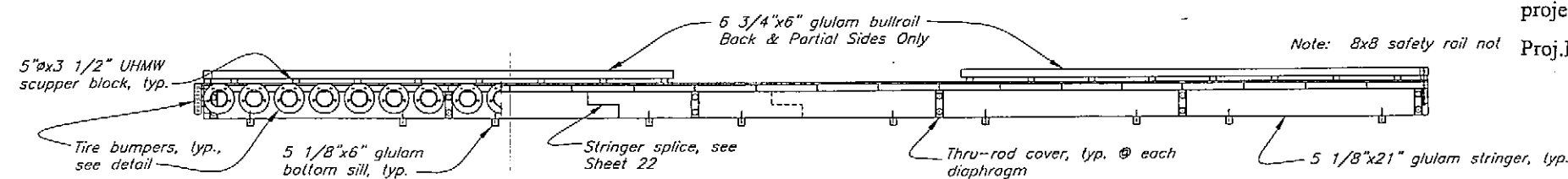
Gangway Shoreward Hinge & Seaward Roller Details

7-27-05

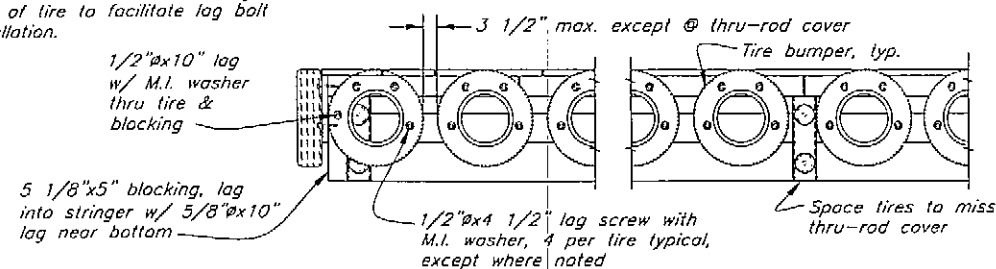
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68348	2005	19	36



Design Freeboard = 16"



Note: Provide 2"Ø hole through outside face of tire to facilitate lag bolt installation.



2x8 SIS2E
milled decking

Leave top surface
rough sawn

1/4" chamfer

2 1/4"

2 3/4"

2 1/4"

1/8"

2x8 milled wear decking
 5 1/8"x4'-0" glulam subdeck panel
 3x3 1/2" UHMW upper block
 2x8 bumper board
 6 3/4"x6" glulam bullrail
 3/4" econ. bolt, washer & nuts centered on 3 3/8"x3" gap, typ.
 5 1/8"x12" glulam blocking
 Pile collar #5
 6 3/4"x21" glulam stringer
 Thru-bolt cover on end diaphragms only

5 1/8" glulam subdeck

Milled decking

M.I. washer

1/2x6 shoulder eye bolt, thread 3", countersink

3 1/2"

3"

1/2"

Stringer or diaphragm

Drill 1/4" ϕ drain holes, 2 each, typ.

6" typ.

1/2" ϕ heavy hex nut

Typ

PL 3/8x2x3 1/2

Tiedown Elevation

9/16" ϕ hole w/ nut welded to bottom

5/16" ϕ hole for 1/4"x1 1/2" lag

5/8" ϕ x 12" lag w/ reg washer, countersink flush center lags on stringers, typ.

4 1/8"

3 sp. @ 13 1/4" = 3'-3 3/4"

4 1/8"

1/4" gap

5 1/8" x 4'-0" glulam deck panel, typ.

Glulam stringer, typ.

8 1/2"

Typical Deck Fastening
(except where noted)

Bullrail symmetrical about CL float

Dimensions and components shown in the diagram:

- 3'-3 3/4"
- 2'-11"
- 2'-11"
- 2'-11"
- 2'-8 1/8"
- 11 7/8"
- 13'-6"
- 8x8x13'-6" safety bullrail
- 6"Ø UHMW scupper, typ.
- Stringer splice
- 5 1/8"x21" glulam stringer
- 5 1/8"x4'-0" glulam subdeck panel, typ.
- 3/4"Øx30" long lag bolt w/ M.I. washer, typ.
- Omit regular subdeck lags at these locations.

Safety Bullrail Elevation

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

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lge, the

1/8/07

5 1/8"x4'-0" glulam
subdeck panel

8x8 safety
bullrail

6"x3 1/2" UHMW
scupper block

1/8"x21" glulam
aphragm

5 1/8"x21" glulam
stringer

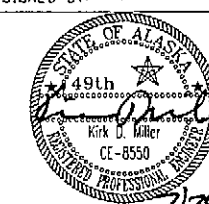
5 1/8"x6" glulam
bottom sill

Section B-B

Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

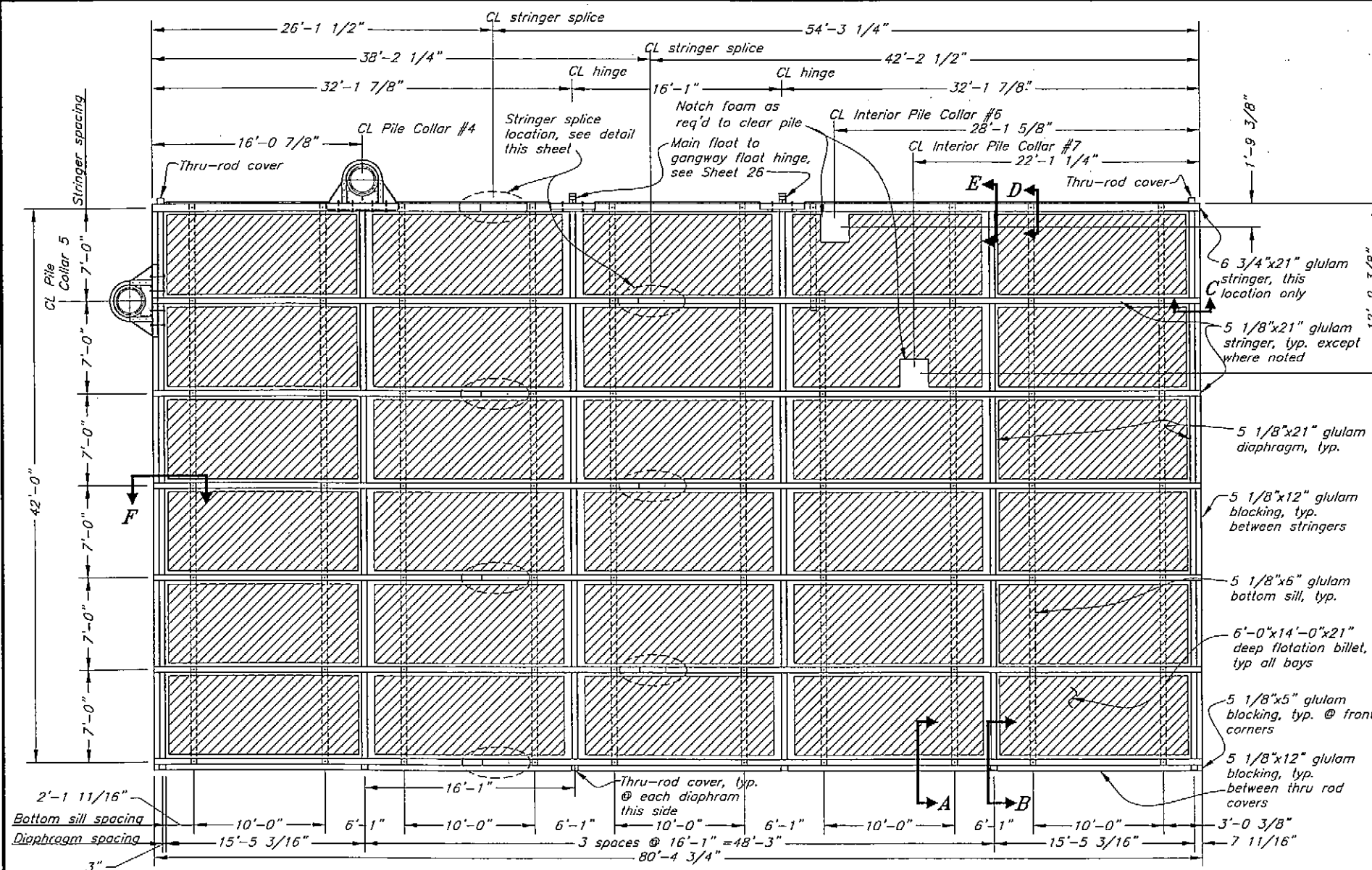


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float Replacement

43' x 80' Main Float

CHECKED BY: J. Beedle		43' x 80' Main Float				
DRAFTED BY: C. Fuman						
PATH: Q:\Hnh\68348\MF\Planner\21 Main Float.dwg						
PLOT: PSPACE 1=1 Tab: Sht 21		Wed. 27/Jul/05 02:02PM				
REVISIONS			PROJECT DESIGNATION 68348	YEAR 2005	SHEET NO. 21	TOTAL SHEETS 36
NO.	DATE	DESCRIPTION				

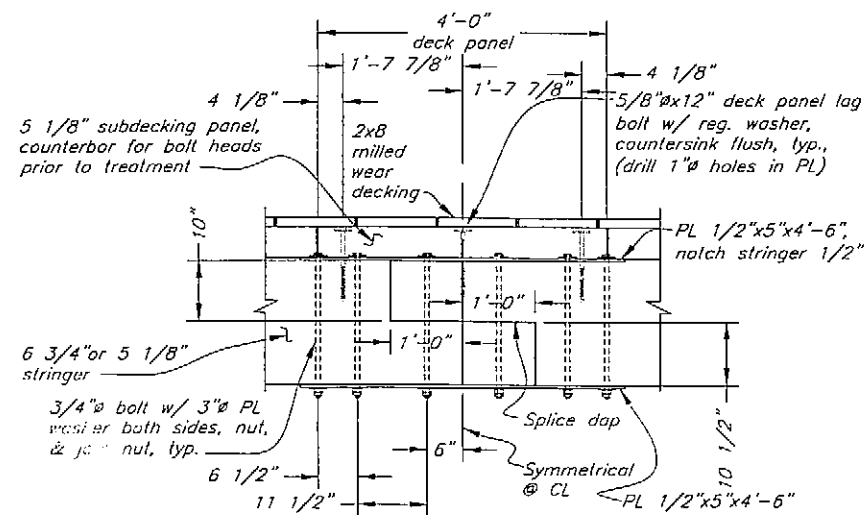


Main Float Framing Plan

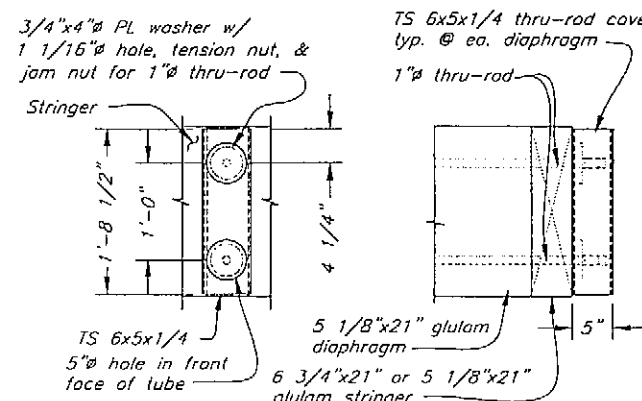
(Deck and Glulam Subdeck not shown for clarity)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. J. BERGAM Date 1/10/07

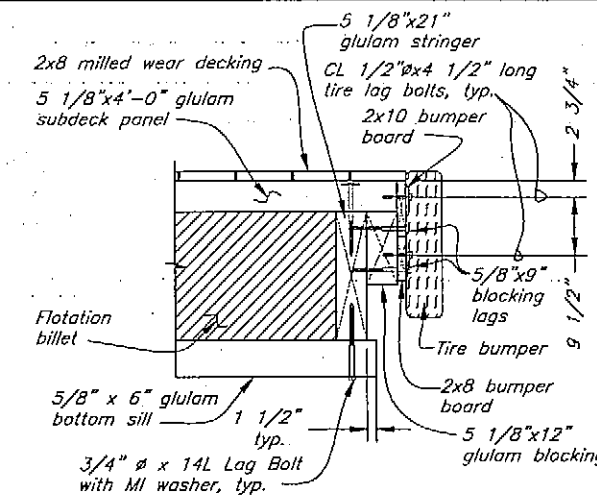


Stringer Splice

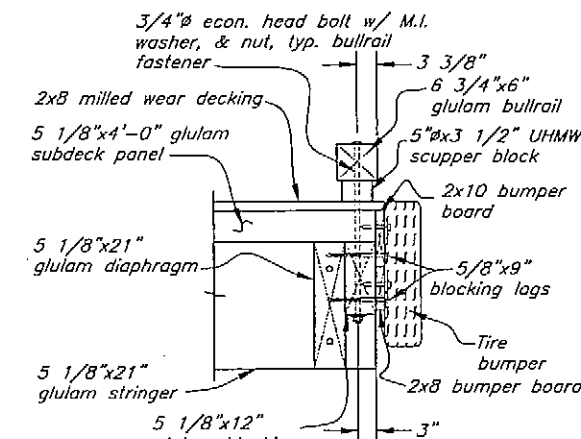


Thru-rod Cover

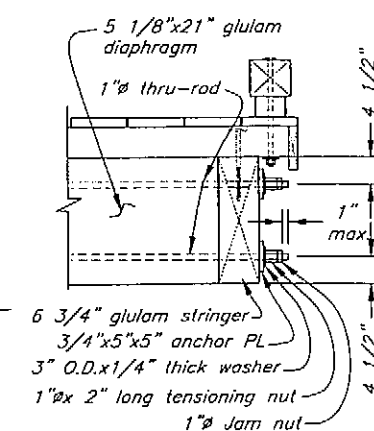
GLULAM EDGE BLOCKING NOTE:
Secure 5 1/8"x12" glulam blocking located between thru rod covers at seaward face & between stringers along sides with 5/8"x9" lag bolts w/ regular washers, CTSK heads. Space 3" from top & bottom of blocking w/in 12" of ends and at approx 3'-0" spacing. Also install additional 5/8"x12" lag bolts thru glulam subdeck and into exterior glulam blocking - 2 lags per panel on seaward side and at approx 3'-0" spacing on sides (typ 3 sides). Coordinate on shop drawings to miss other hardware. Avoid interference with bullrail bolts, thru-rods, subdeck lags and rubber tire lags.



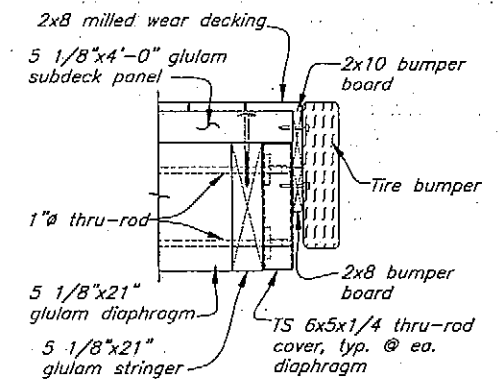
Section A



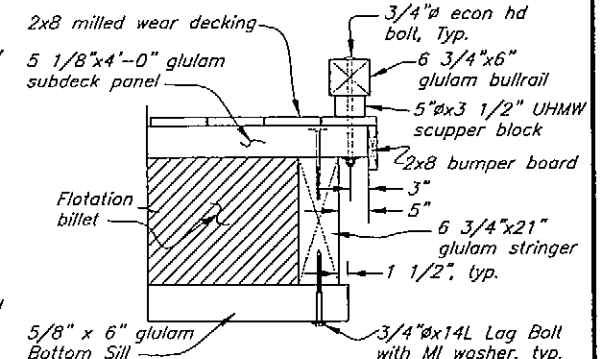
Section C



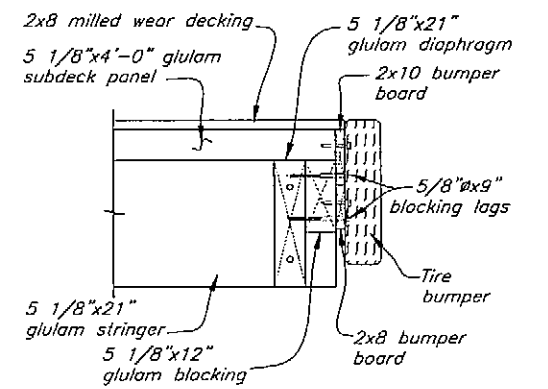
**Section E
Thru-rod Anchor**



Section B



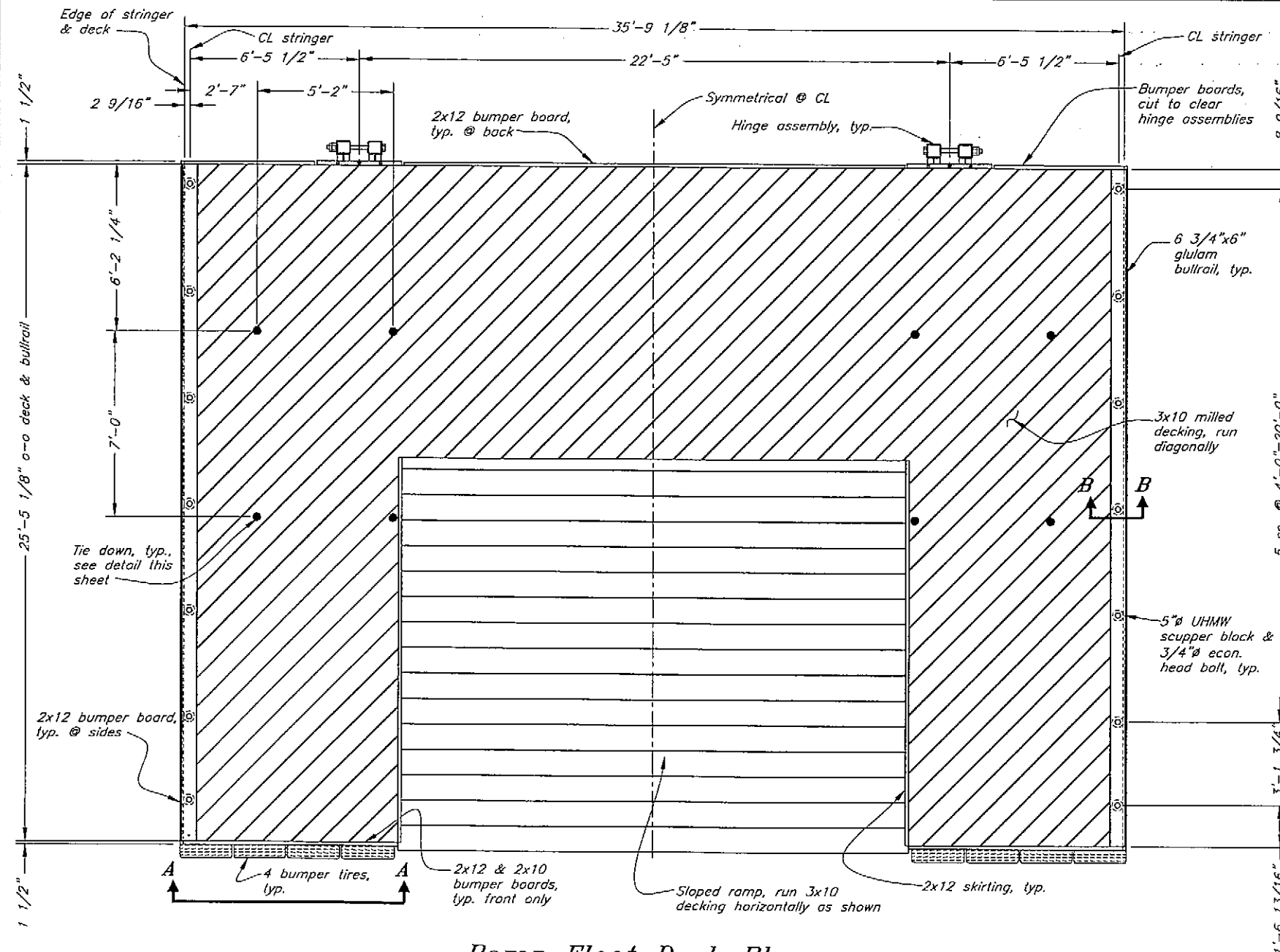
Section D



Section F

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

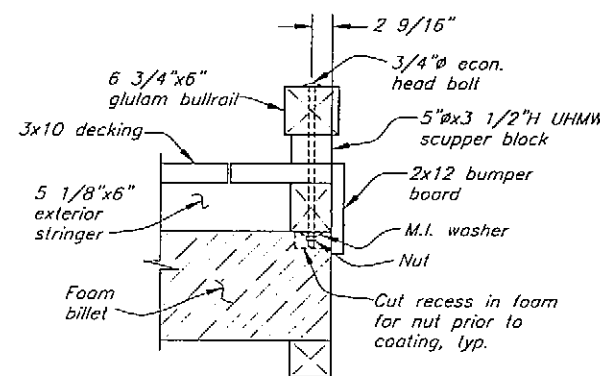
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION															
		Hoonah Seaplane Float Replacement															
CHECKED BY: J. Beattie		Main Float Framing															
DRAFTED BY: C. Fumori																	
PATH: Q:\Hnh\68348\MF\Plans\22 Main Float Framing.dwg																	
PLOT: PSPACE 1=1 Tab: Sht 22		Wed, 27/Jul/05 02:03PM															
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REVISIONS		PROJECT DESIGNATION	YEAR					SHEET NO.	TOTAL SHEETS								
NO.	DATE																
		68348	2005	22	36												



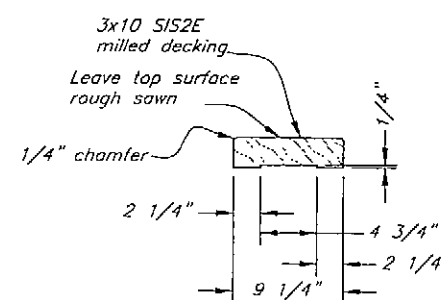
Ramp Float Deck Plan

3x10 Decking Installation Notes

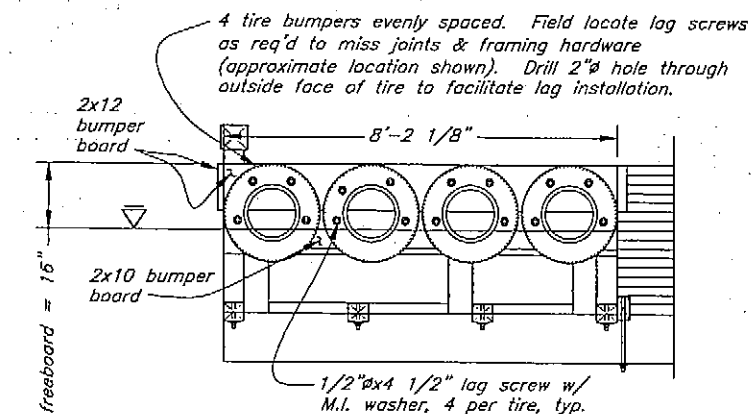
1. Place decking in diagonal pattern on main float area and straight pattern at ramp haul-out as indicated on Plans. Space all deck boards 3/8-inch apart.
2. For diagonal decking, provide full-length boards where overall length does not exceed 18-feet. For deck areas requiring longer than 18-foot deck boards, install no more than two boards with match joints at center of the 5-1/8" glulam stringers. Stagger joints every other stringer until full-length deck boards can be utilized. Straight pattern deck boards at the ramp location shall be provided at the full length without end joints.
3. Secure all deck boards at ends with 2 each, 1/4" x 5" long galvanized lag screws with washers. Predrill pilot hole and counterbore deck to washer diameter so that lag screw heads are flush with deck. Secure deck boards at interior locations to stringers with 2 each, 50d, double hot-dip galvanized nails. Predrill for nail holes if required to prevent splitting.



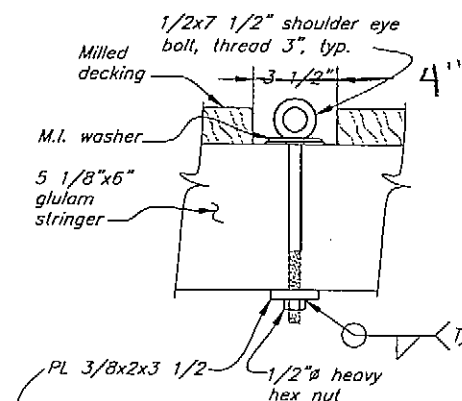
Bullrail Section B-B



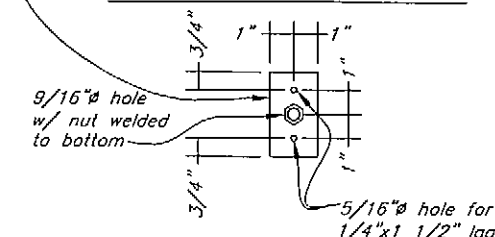
Milled Decking



View A-A



Tiedown Elevation

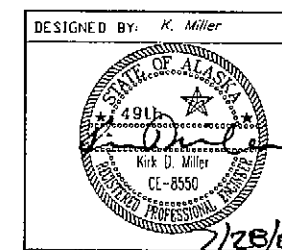


Tiedown Bottom Washer Plan

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. BERGMAN Date: 6/6

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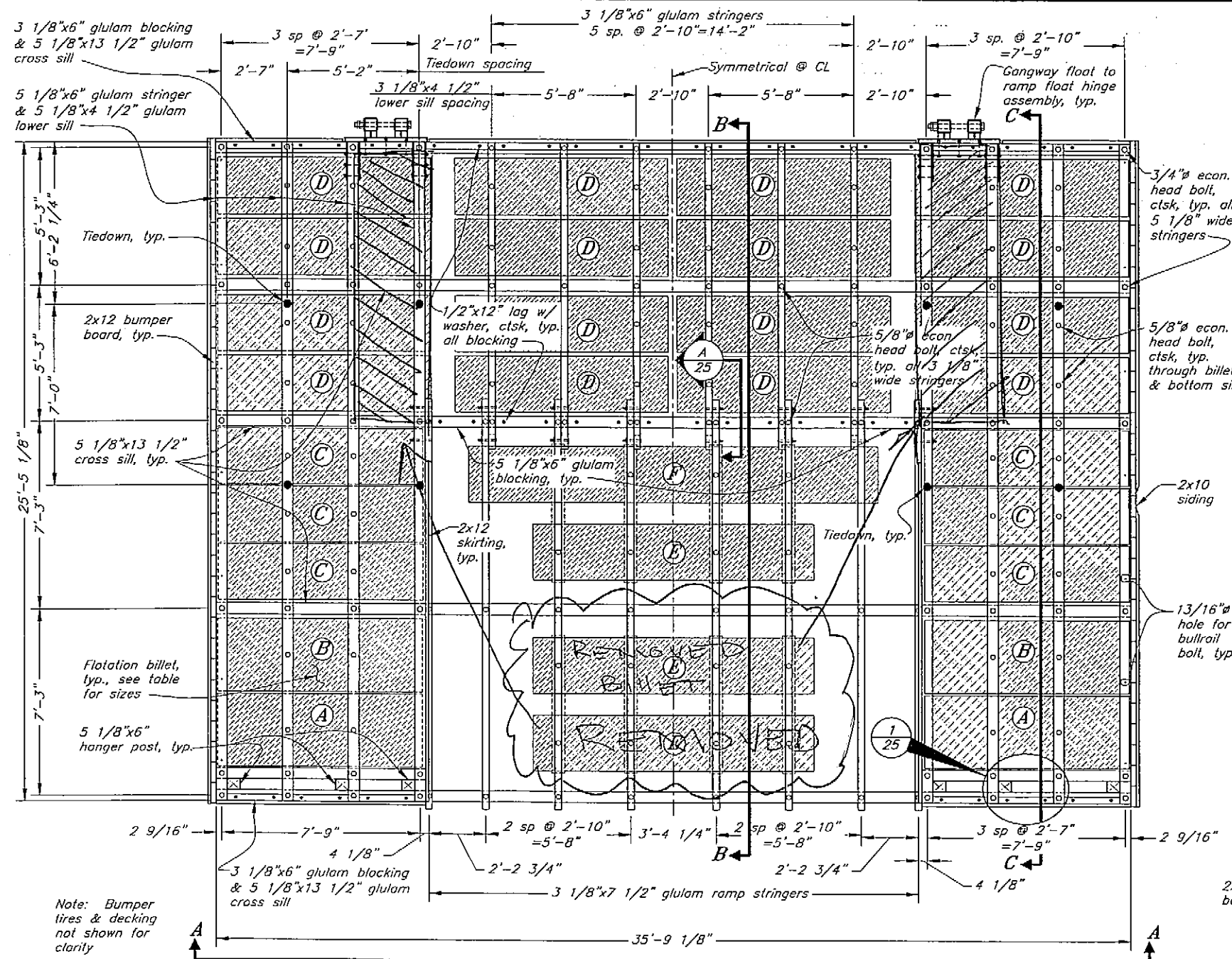
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
Hoonah Seaplane Float Replacement

Ramp Float Deck Plan

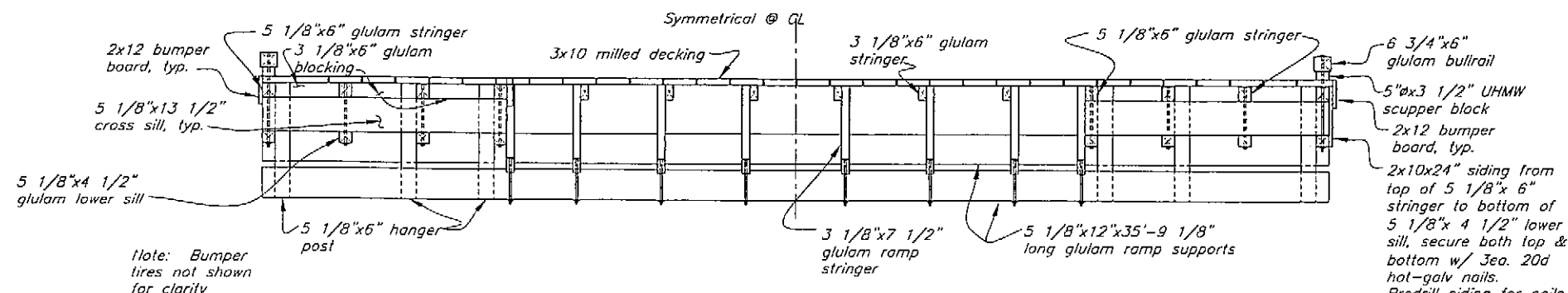
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CHECKED BY: J. Beedle
DRAFTED BY: C. Fuman
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Wed, 27/Jul/05 02:54PM

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68348	2005	23	36



Ramp Float Framing Plan

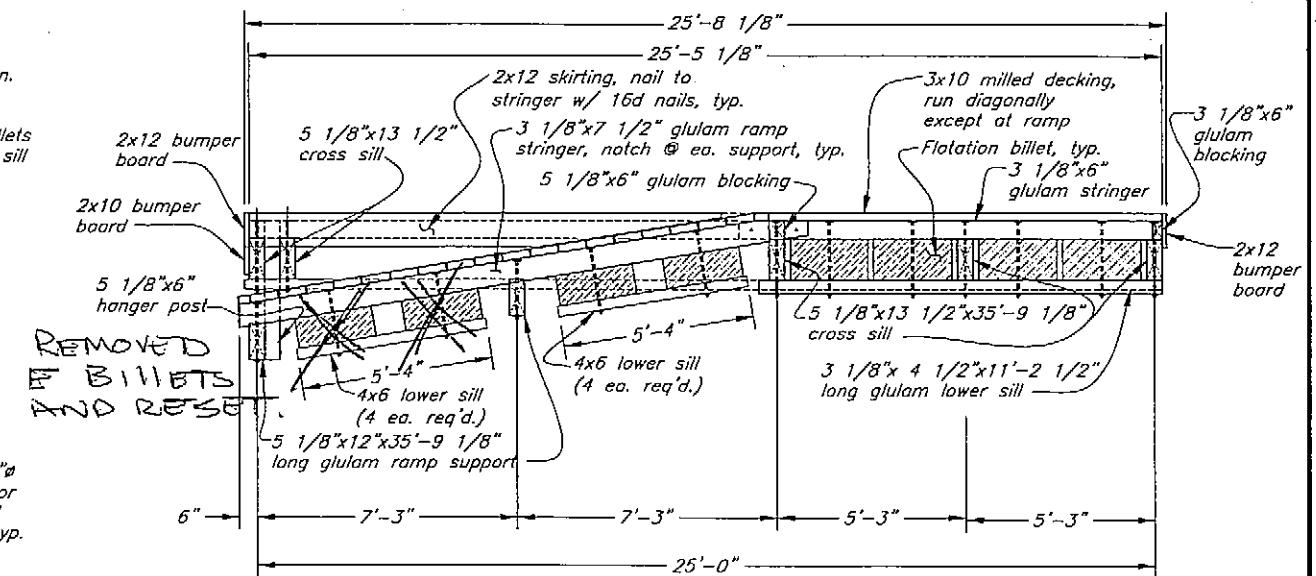
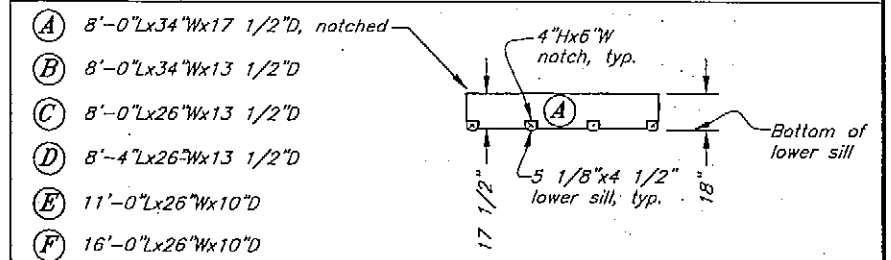


View A-A

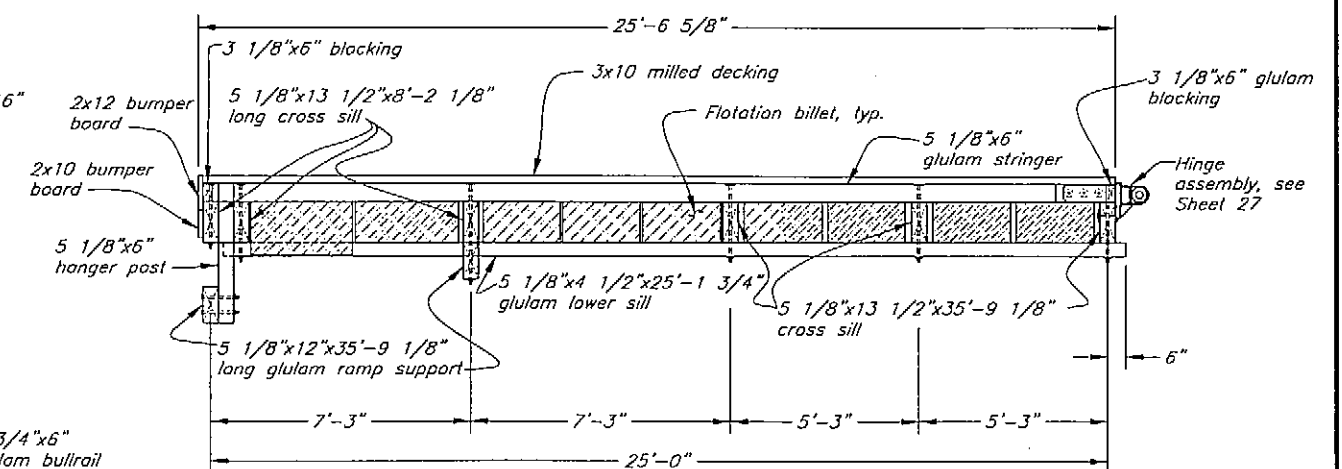
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr B. BERGAM Date 7/8/06

Flotation Billets

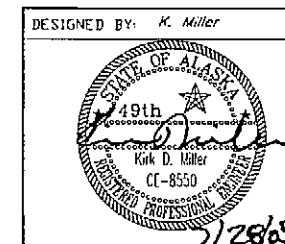


Section B-B



Section C-C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



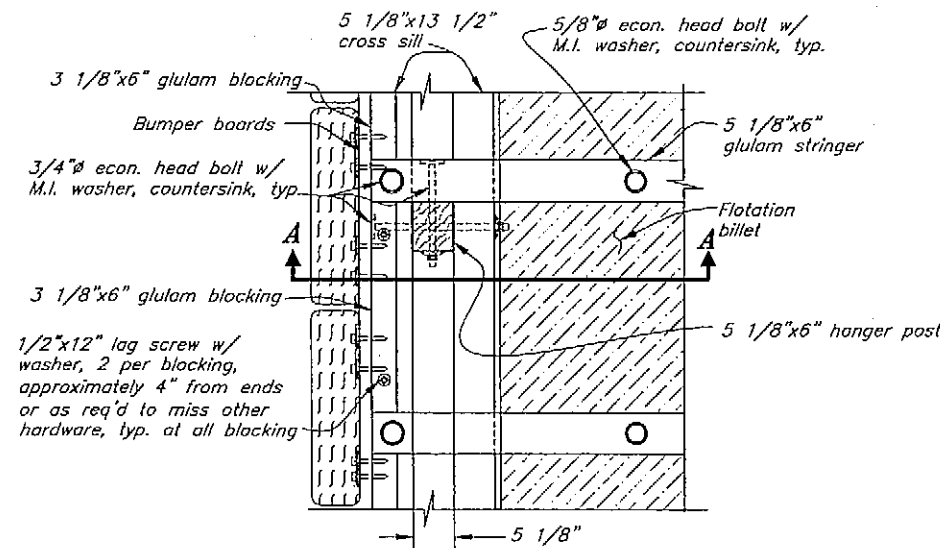
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CHECKED BY: J. Beedle
DRAFTED BY: C. Fuman

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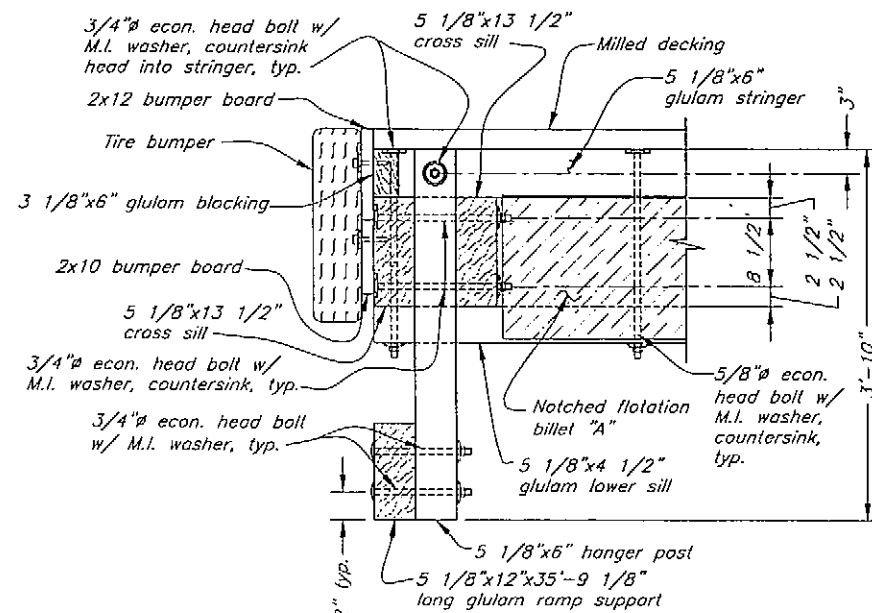
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
Hoonah Seaplane Float Replacement

Ramp Float Framing

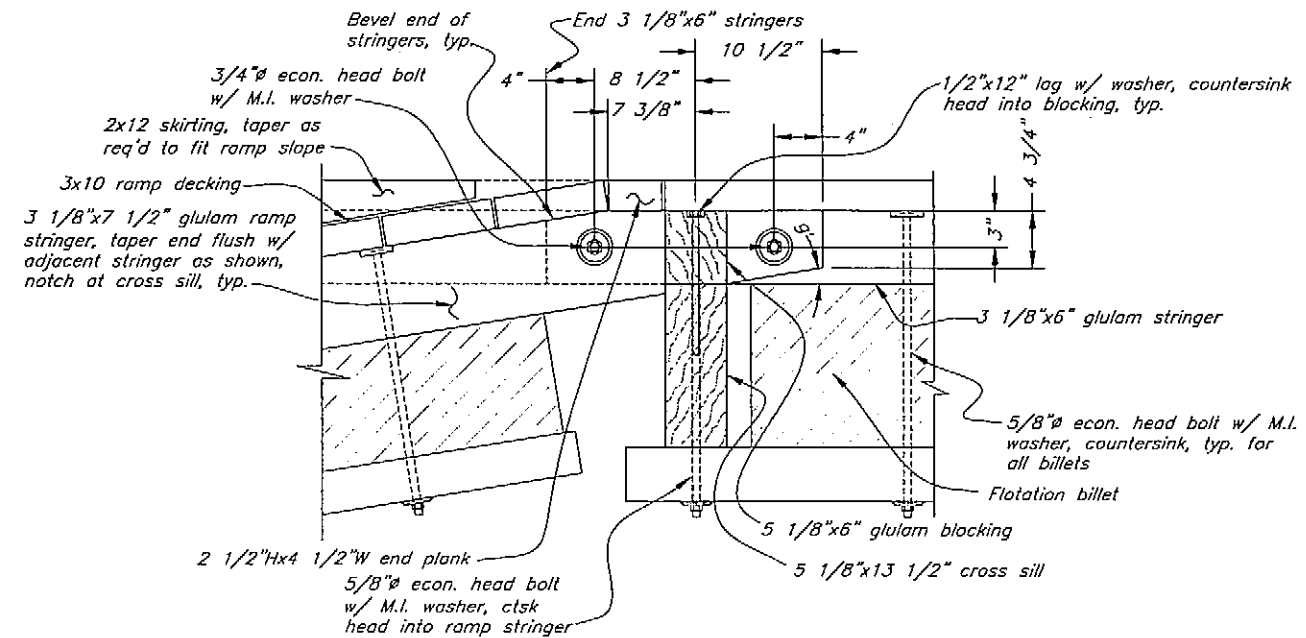
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NO.	DATE	DESCRIPTION				
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Detail 1/24



Section A-A



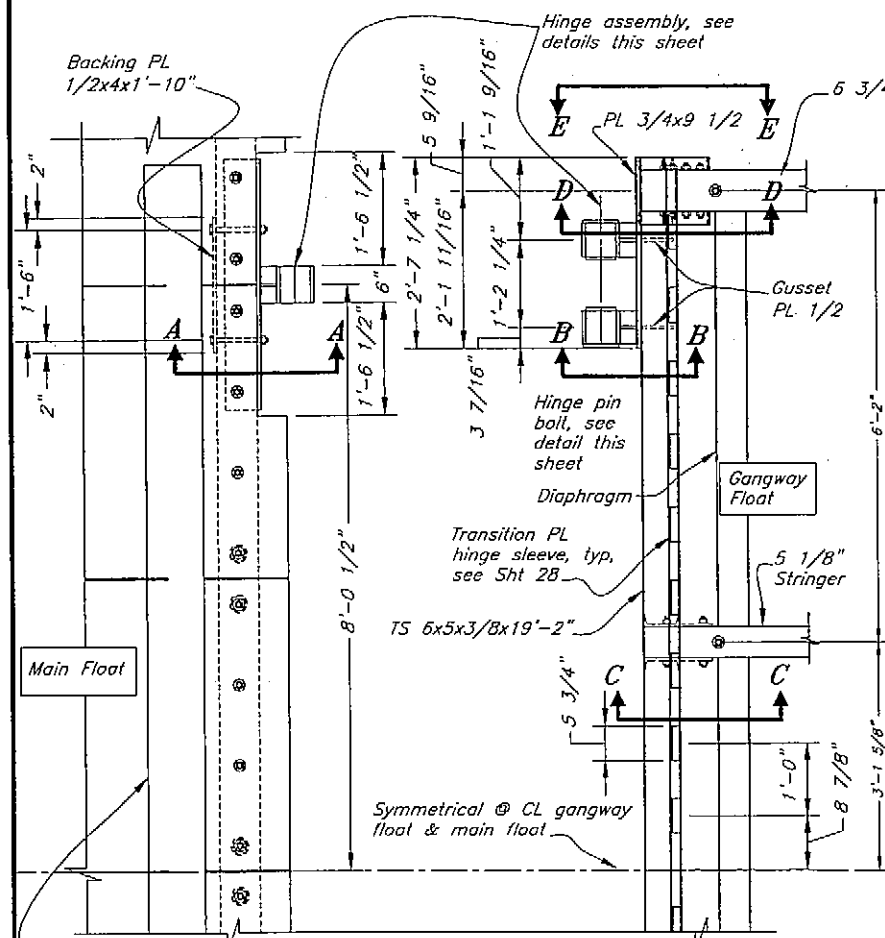
Section A/24

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

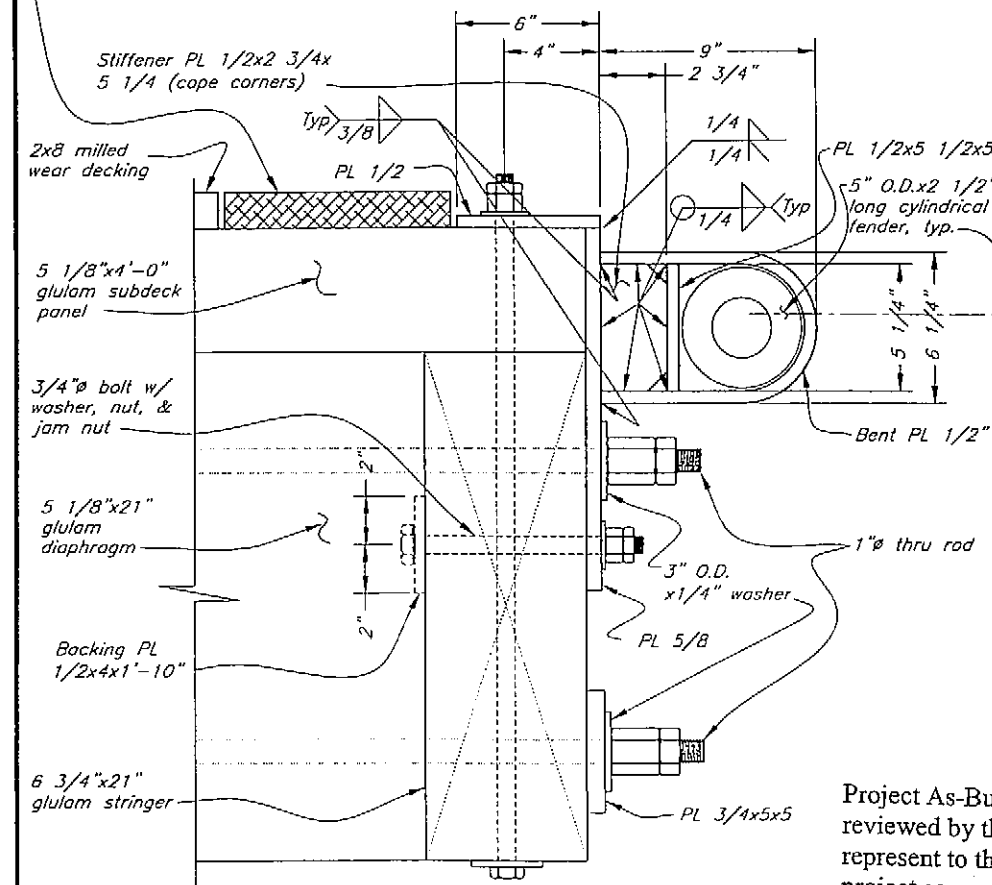
Proj. Engr. I. BERGAN Date 1/8/07

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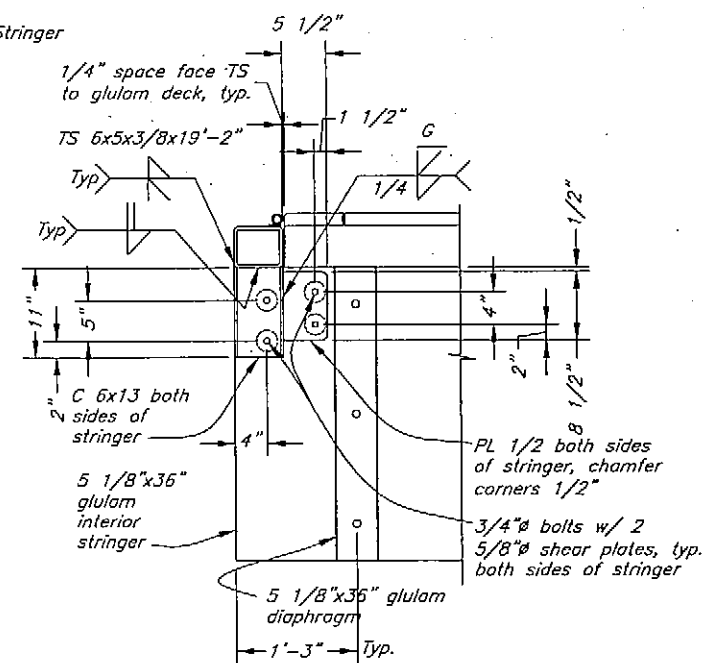
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CHECKED BY: J. Beeble		Ramp Float Details			
DRAFTED BY: C. Fuman					
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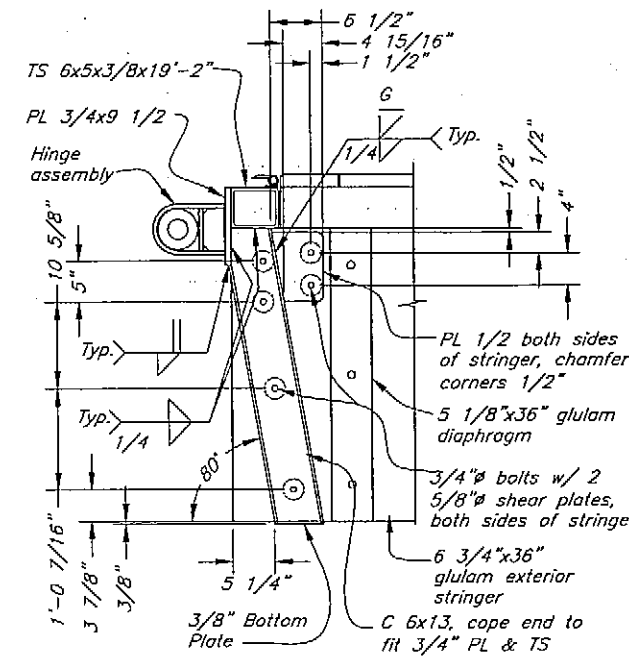
**Main Float to Gangway
Float Hinge Plan**



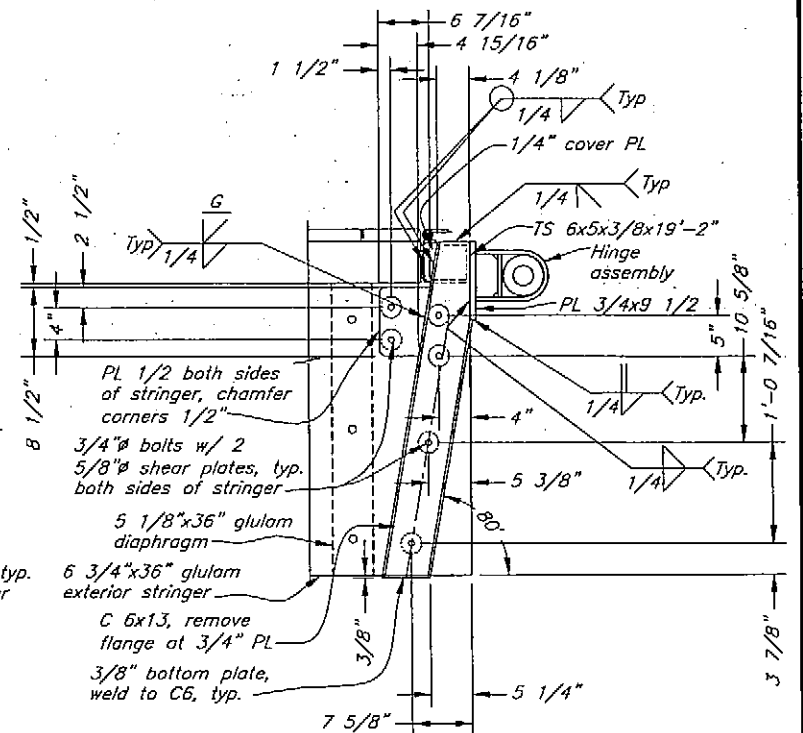
**Section A-A
Main Float Hinge Assembly**



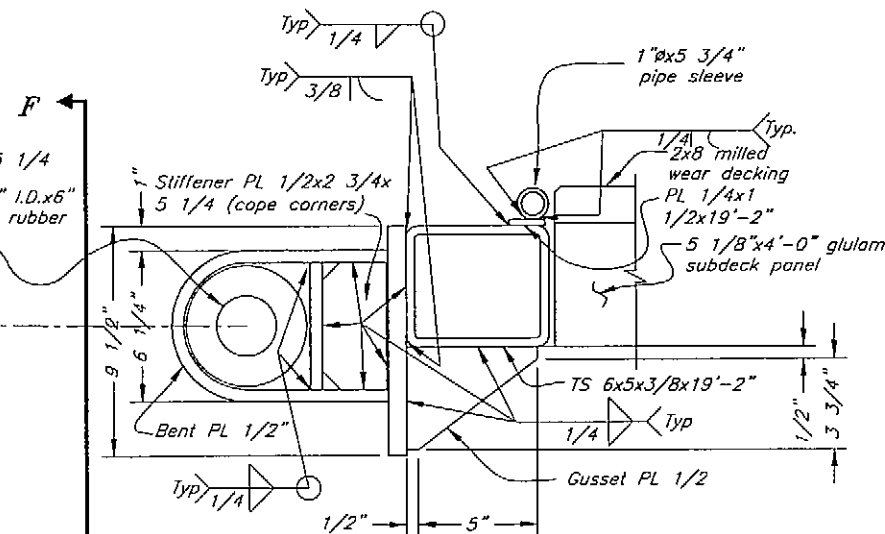
Section C-C



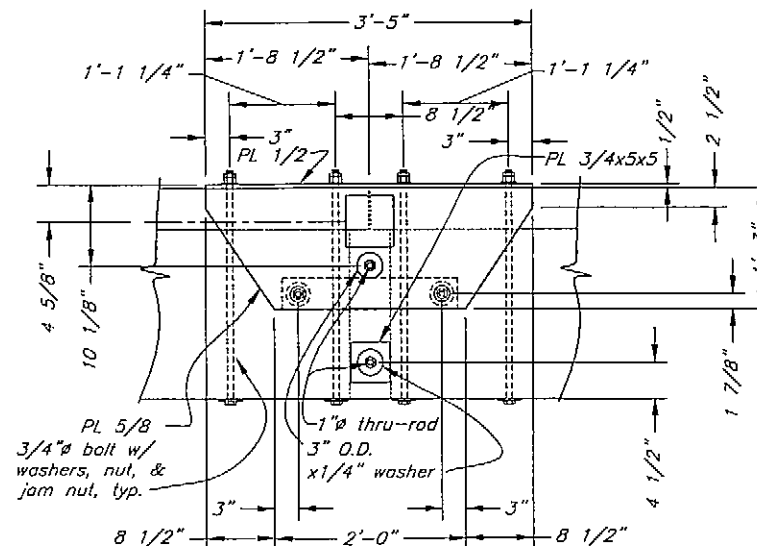
Section D-D



Section E-E

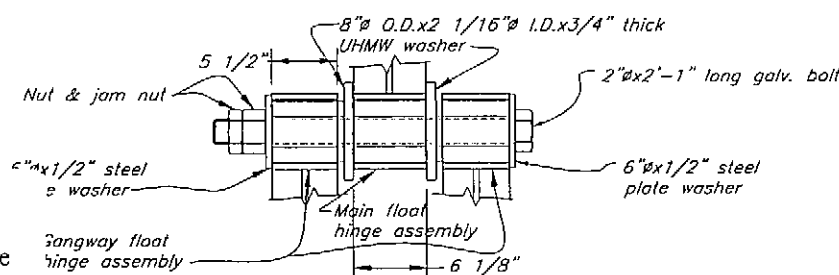


**Section B-B
Gangway Float Hinge Assembly**



View F-F

Note: All welds may not be shown.
Weld all contacts w/ 1/4\"/>



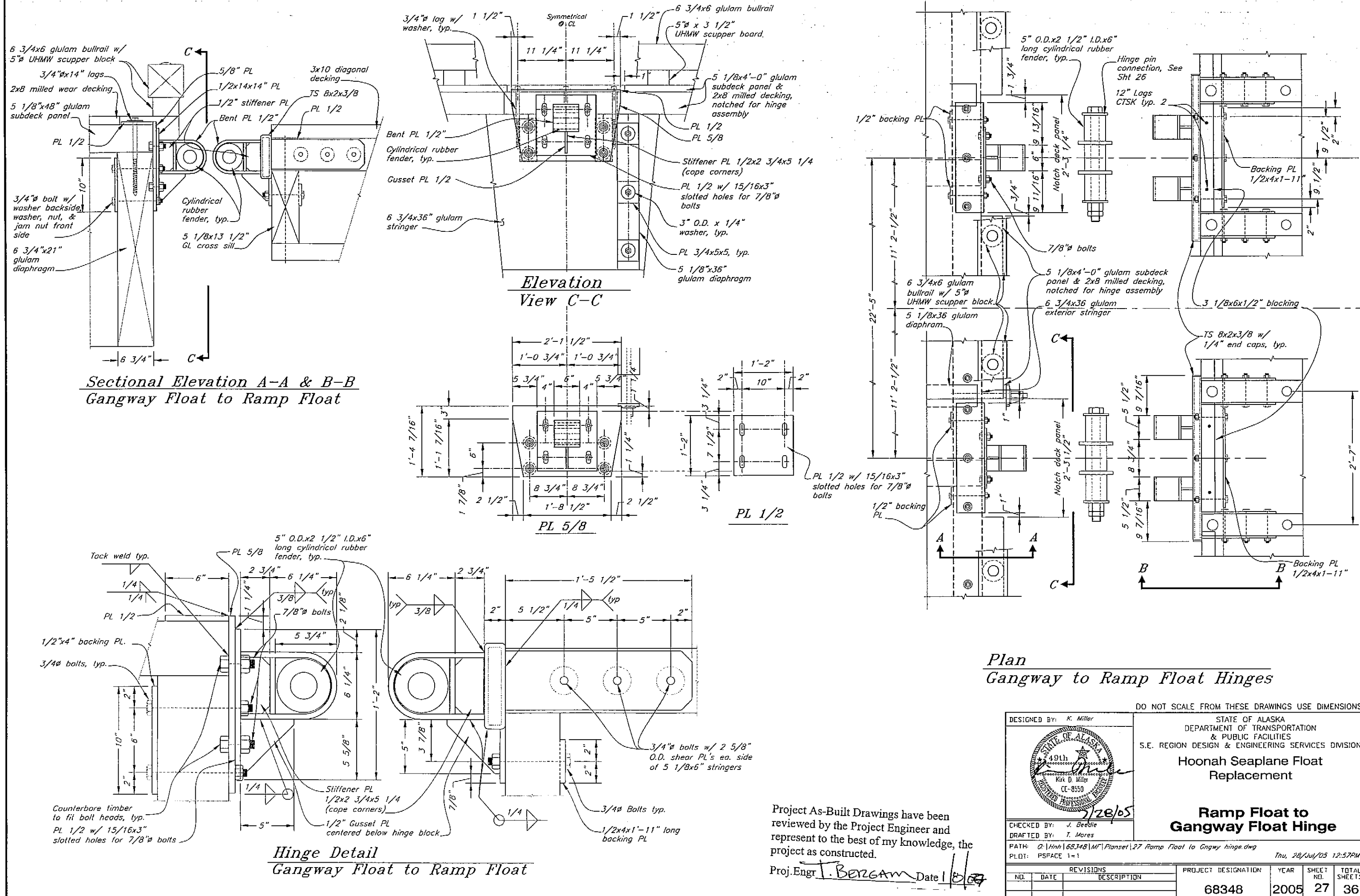
Hinge Pin Connection

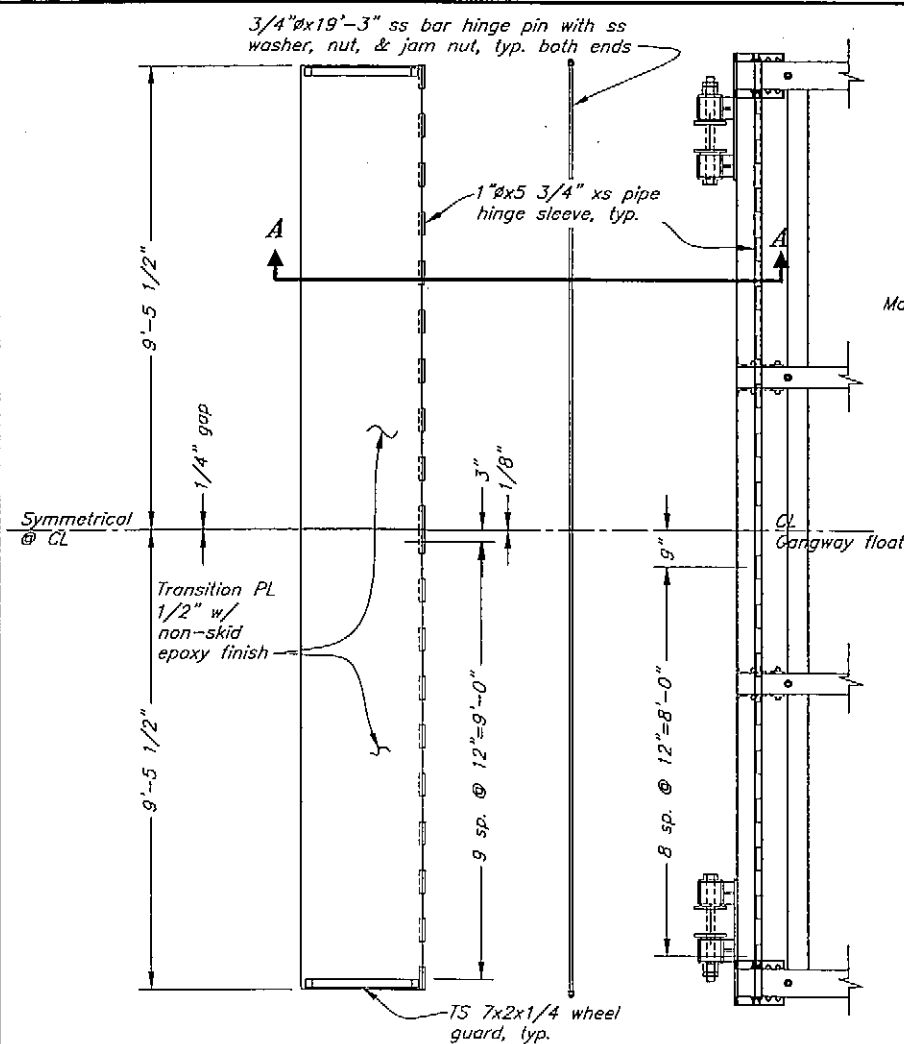
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. BERGAM Date 1/9/07

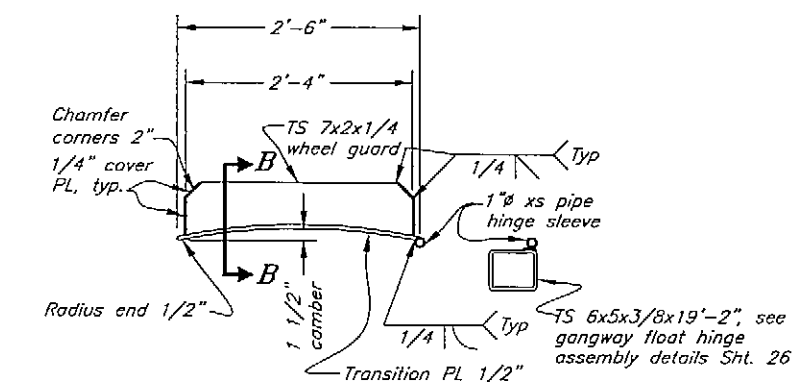
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
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CHECKED BY: J. Beede		Main Float to Gangway Float Hinge Details			
DRAFTED BY: C. Fuman					
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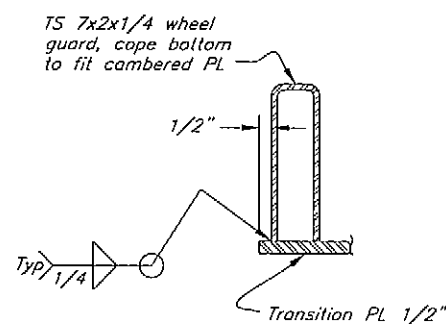




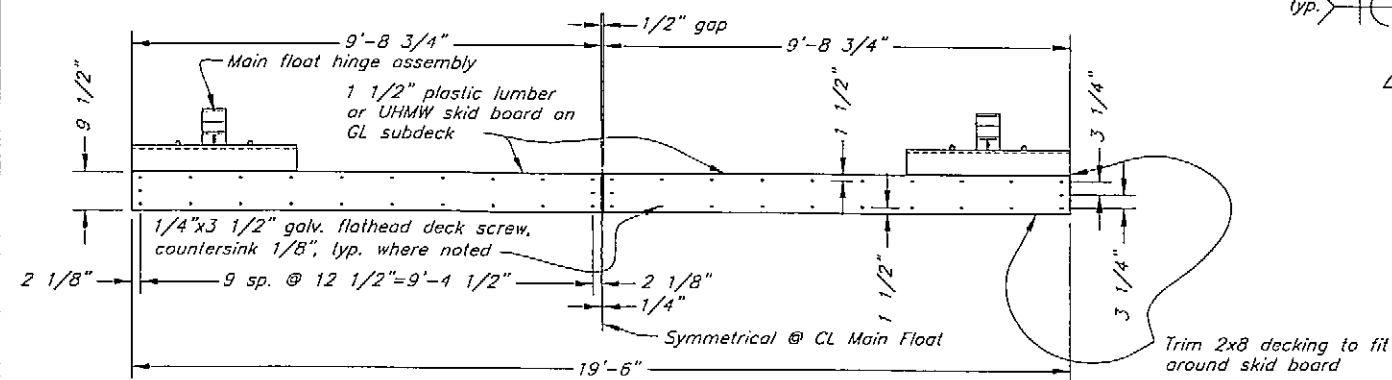
**Transition PL Plan
Gangway to Main Float**



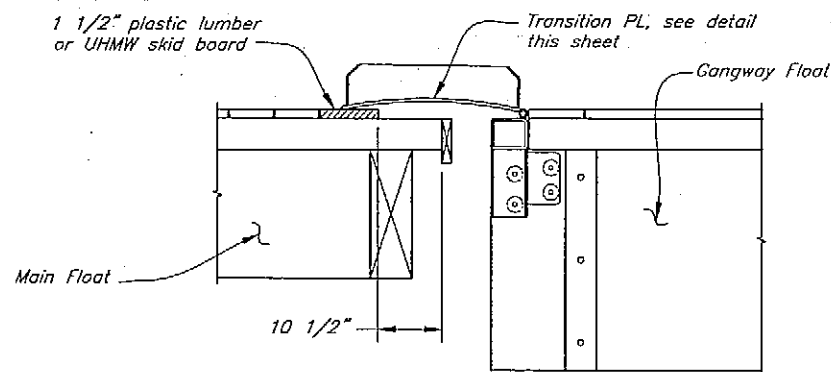
Section A-A



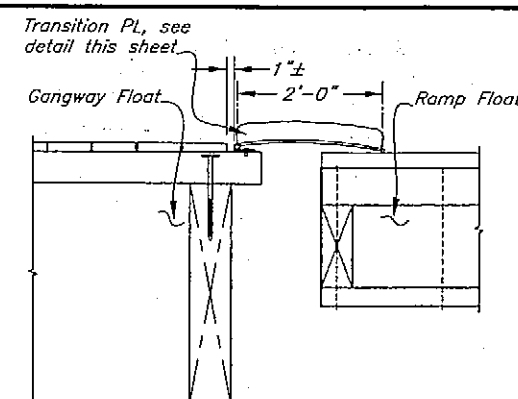
Section B-B



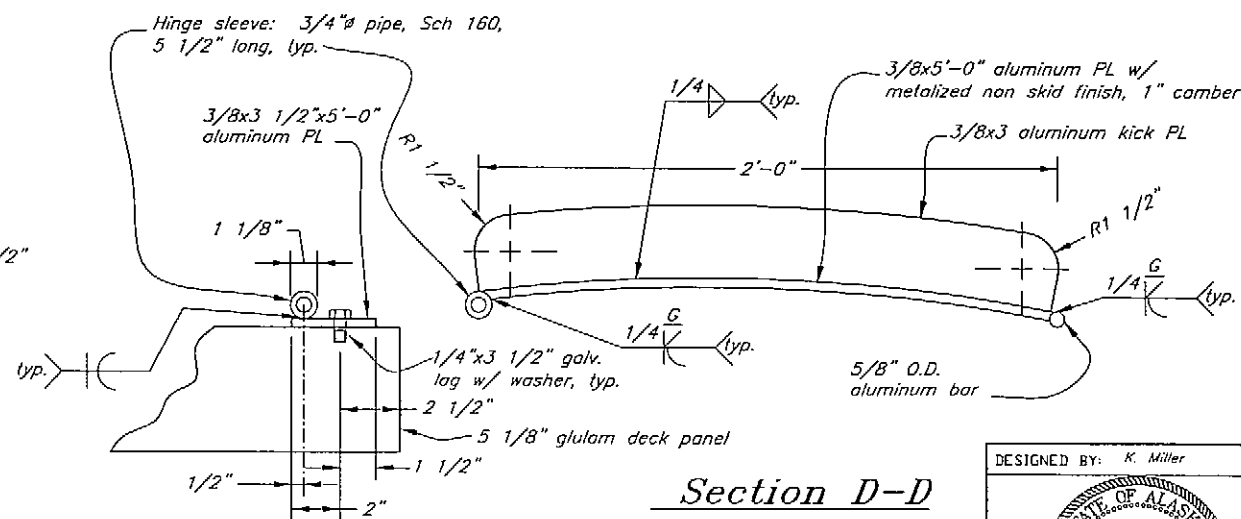
**Plan
Skid Board**



**Elevation
Main Float to
Gangway Float**

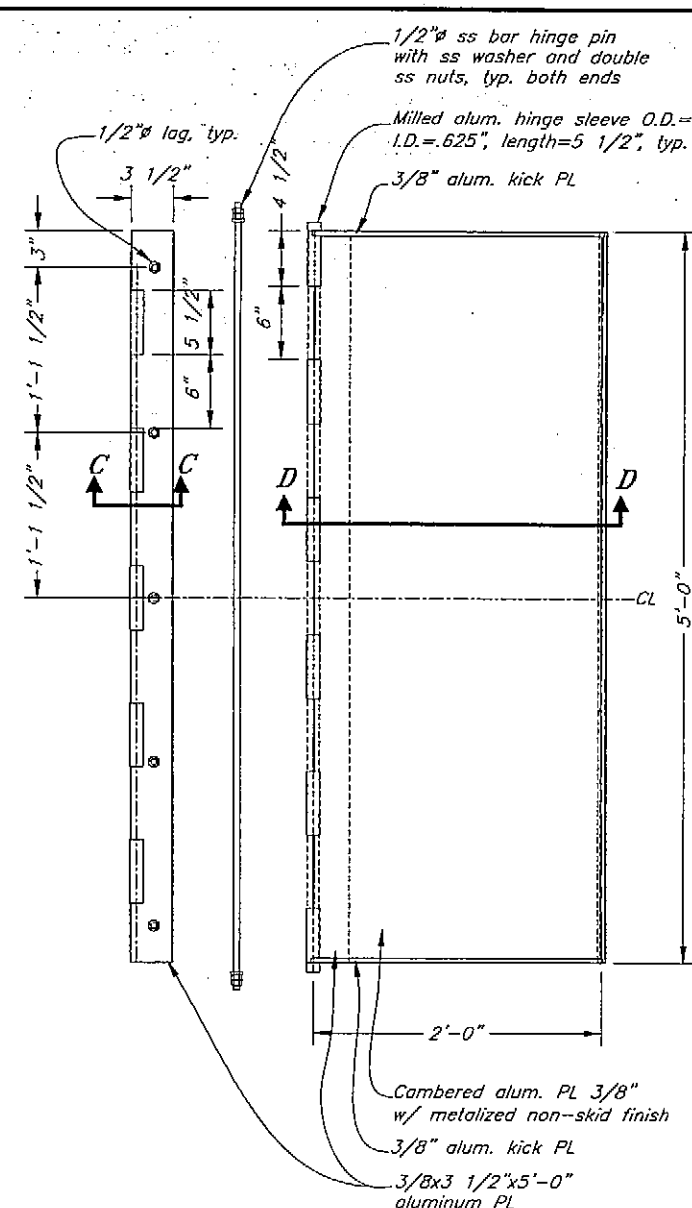


**Elevation
Gangway Float to
Ramp Float**



Section C-C

Section D-D

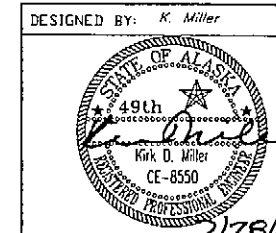


**Transition PL Plan
Gangway to Ramp Float**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. BERGAM Date 1/10/07

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**Hoonah Seaplane Float
Replacement**

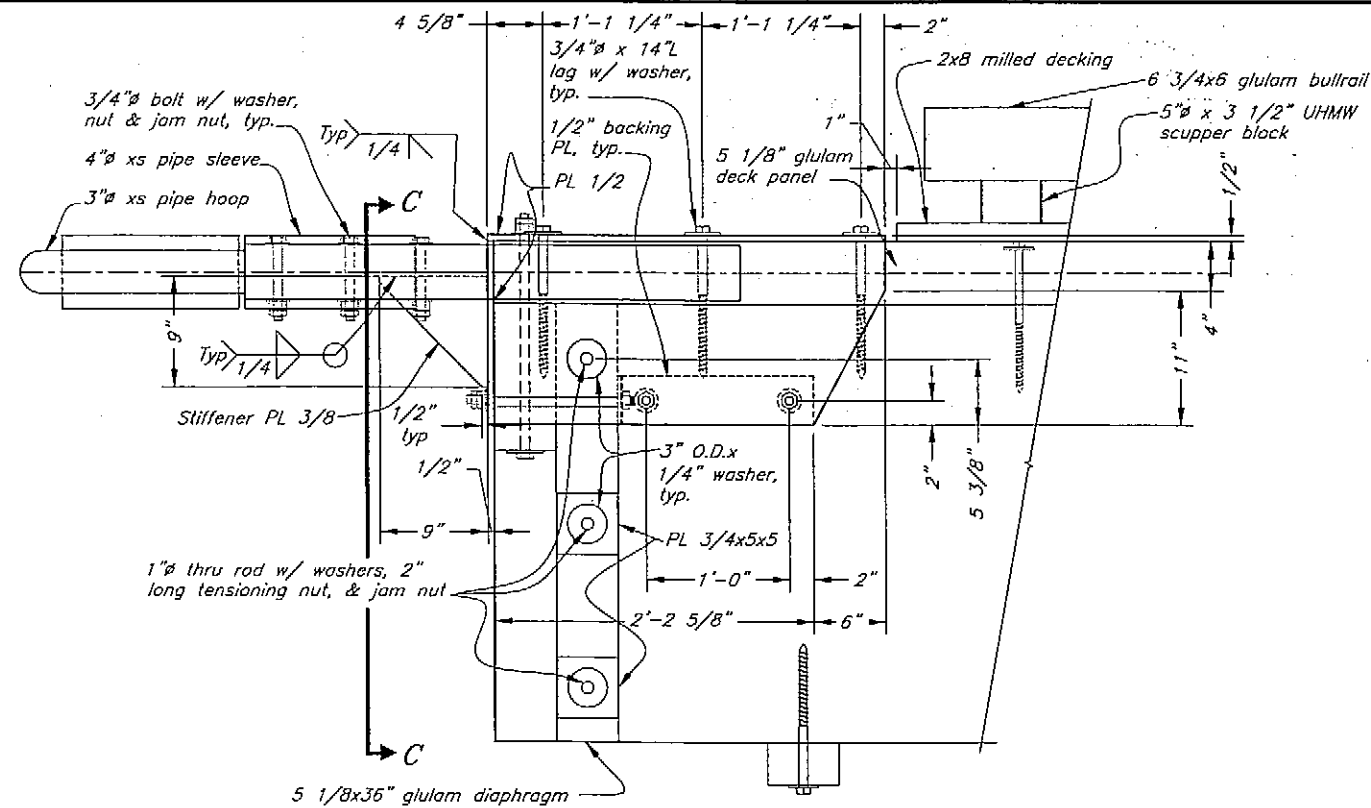
**Transition Plate
Details**

DESIGNED BY: K. Miller
CHECKED BY: J. Beeble
DRAFTED BY: C. Fuman

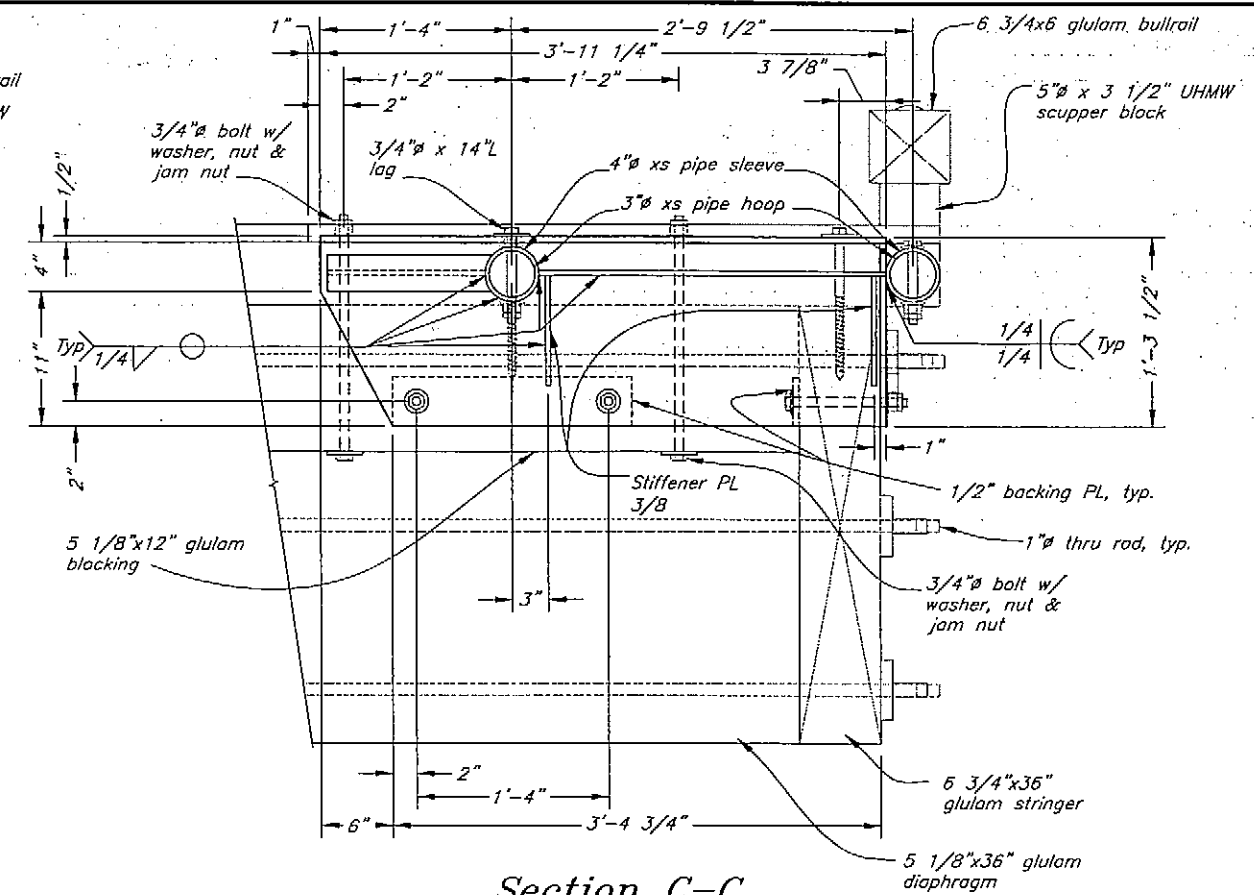
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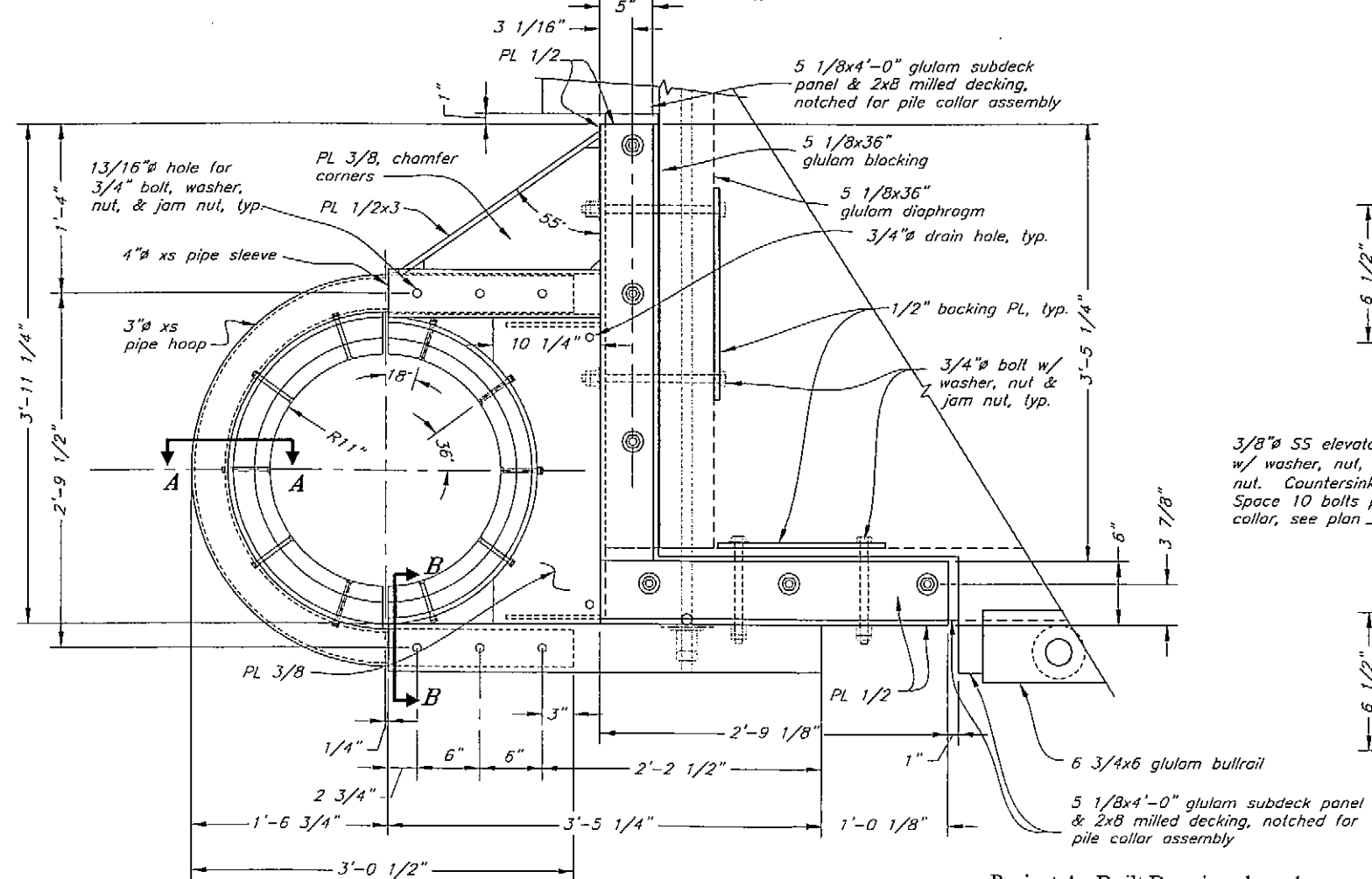
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NO.	DATE	DESCRIPTION				
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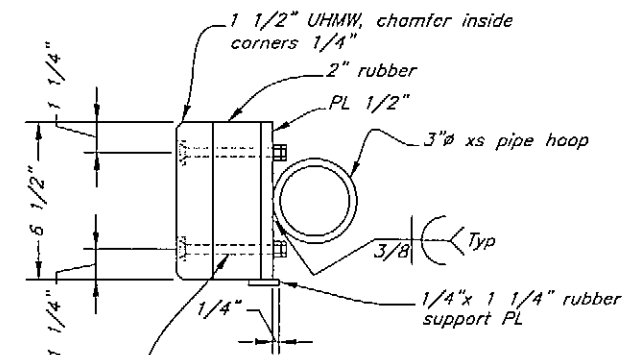
Pile Collar #2 Elevation



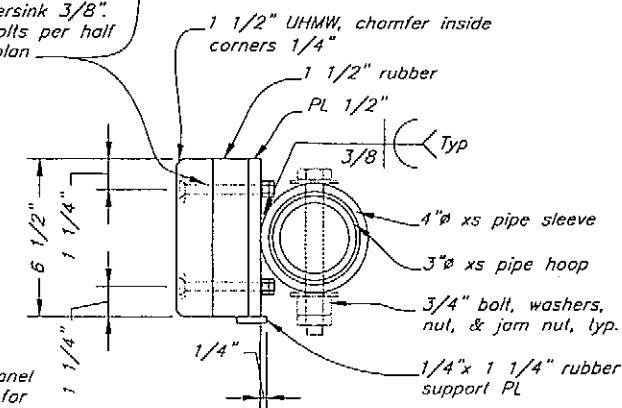
Section C-C



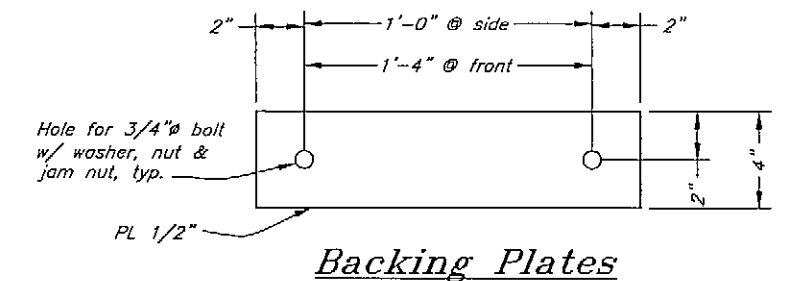
Pile Collar #2 Plan
(Pile collar #1 opposite hand)



Section A-A



Section B-B



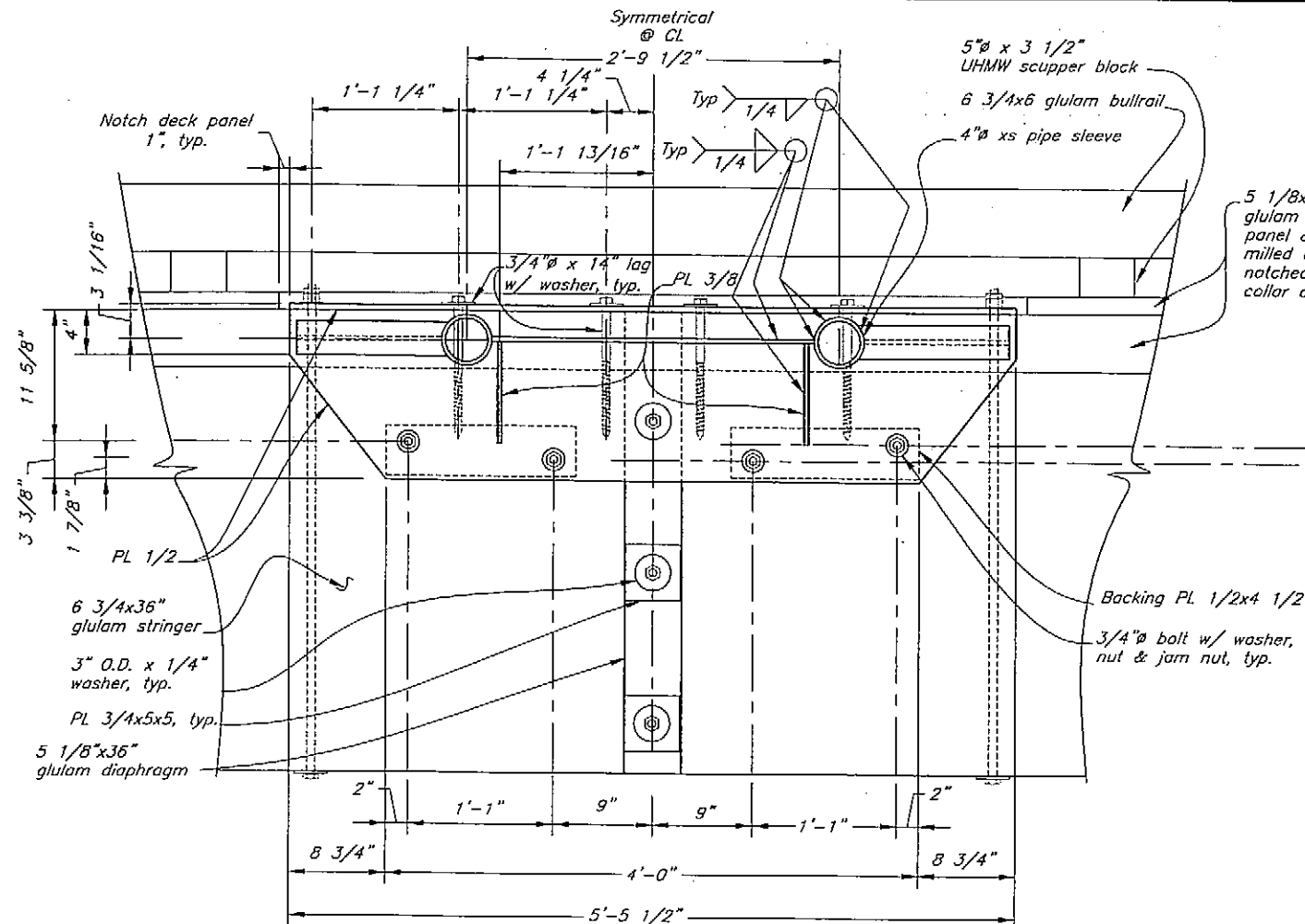
Backing Plates

Note: All welds may not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted.

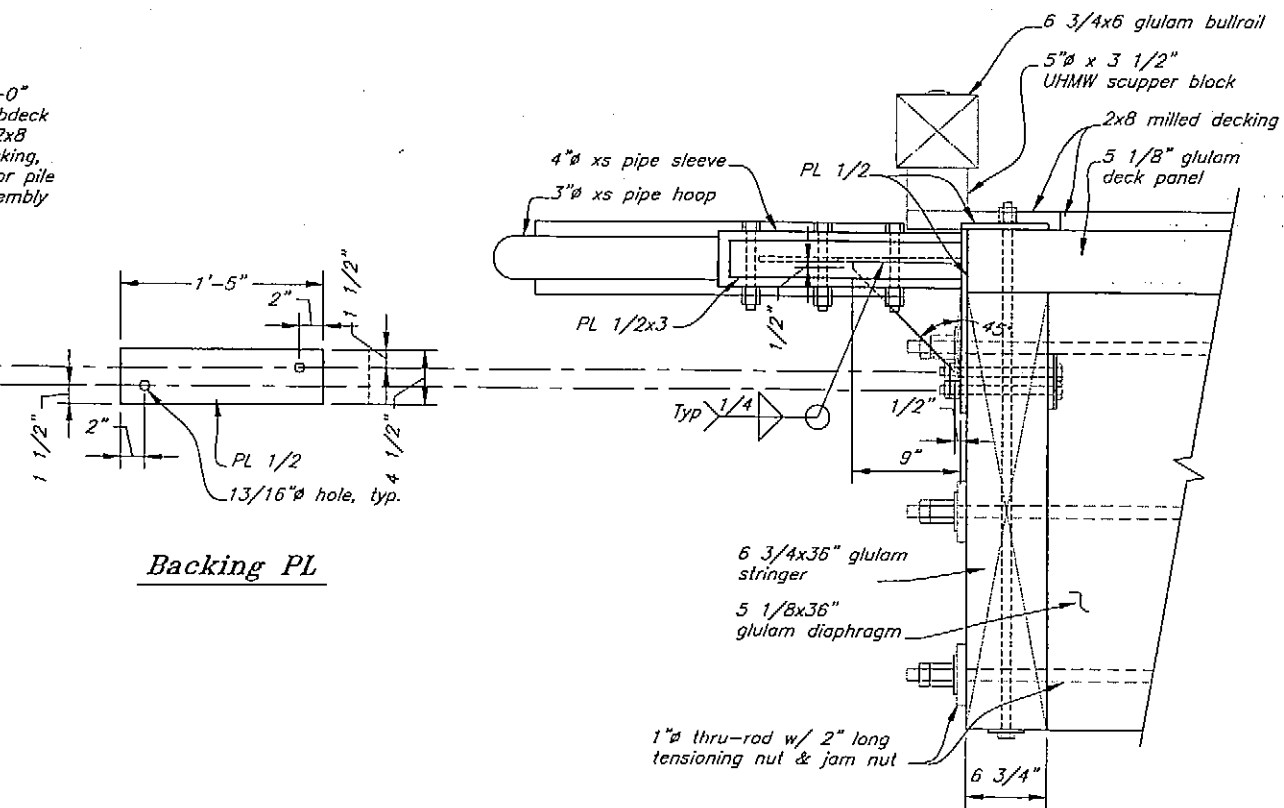
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. T. Bergan Date 1/8/07

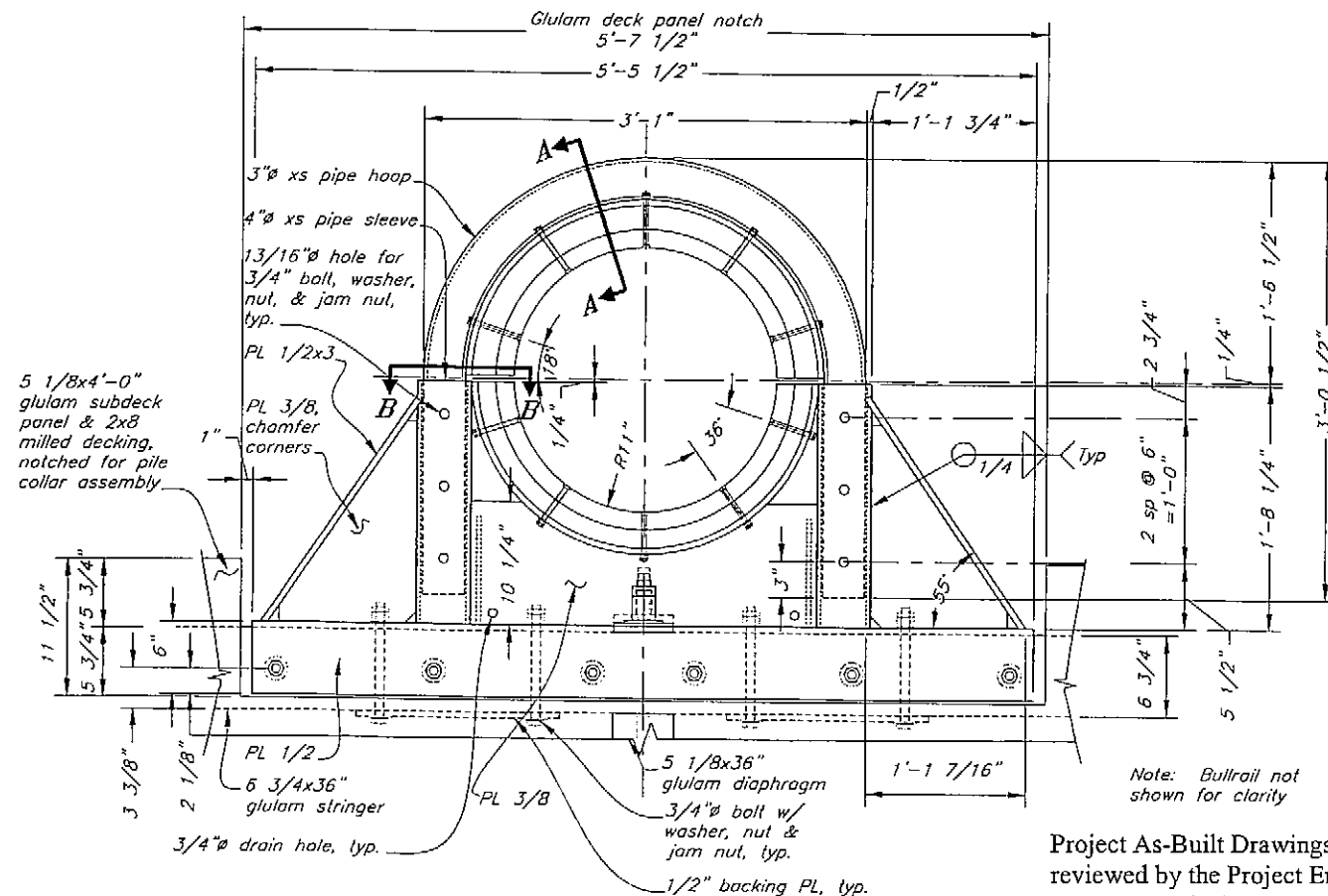
DESIGNED BY: K. Miller		DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
		Hoonah Seaplane Float Replacement			
CHECKED BY: J. Beedle		PROJECT DESIGNATION			
DRAFTED BY: C. Fuman		YEAR			
PATH: Q:\Hnh\68348\H\Plan\29 GW pile collar 1 & 2.dwg		SHEET NO.			
PLOT: PSPACE 1=1		TOTAL SHEETS			
		88348			
		2005			
		29			
		36			



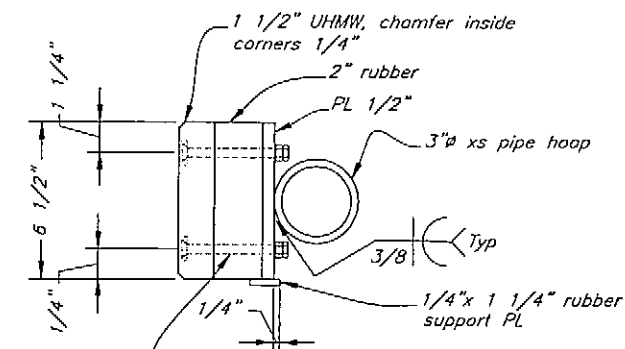
Pile Collar #3 Elevation



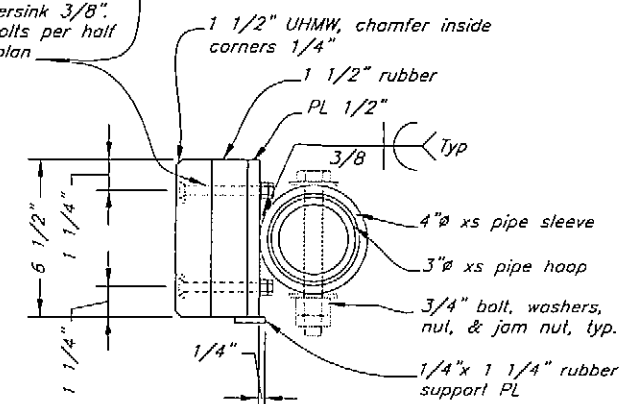
Pile Collar #3 Side View



Pile Collar #3 Plan



Section A-A



Section B-B

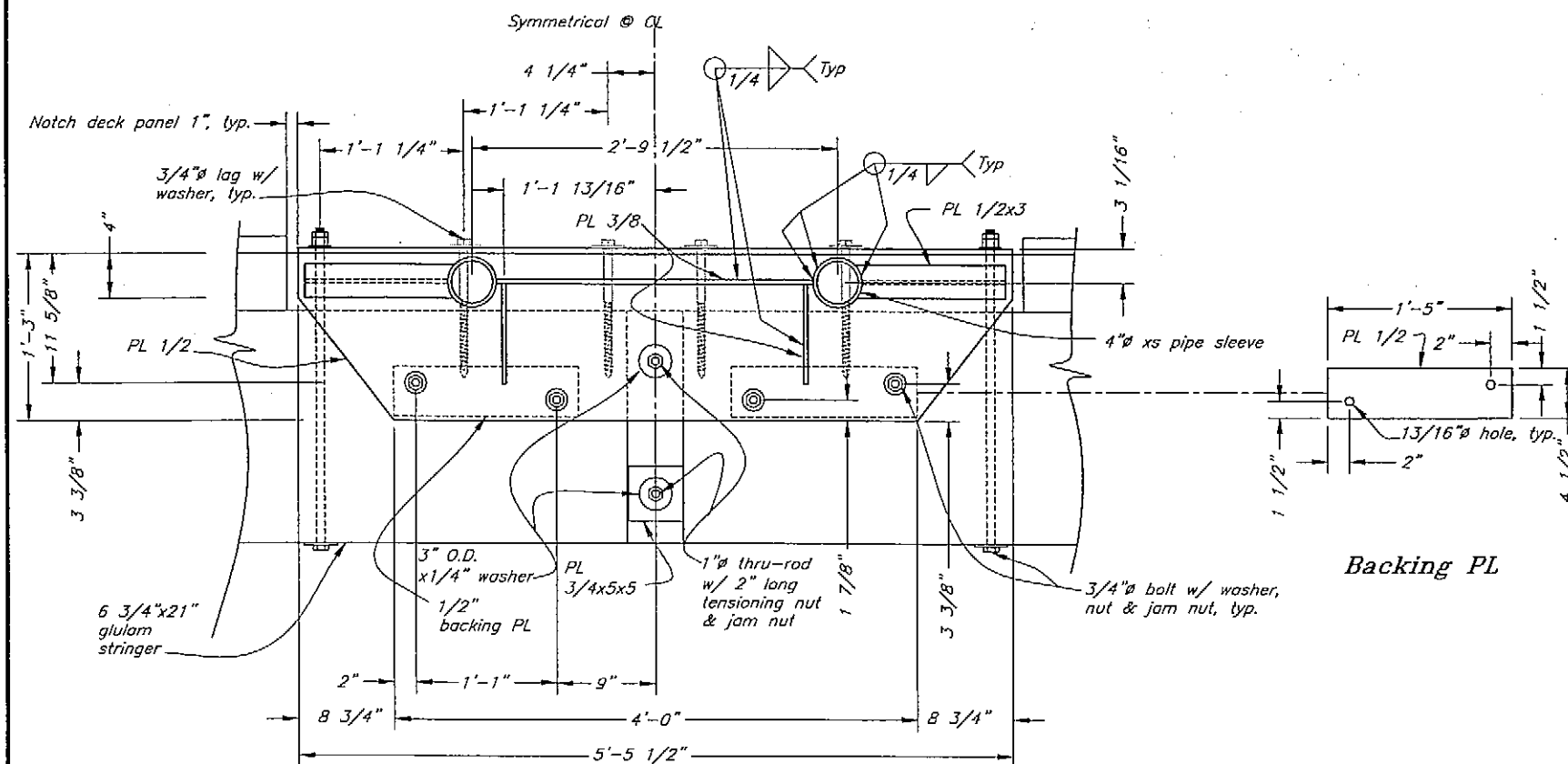
Note: All welds may not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr T. BERGAM Date 1/8/01

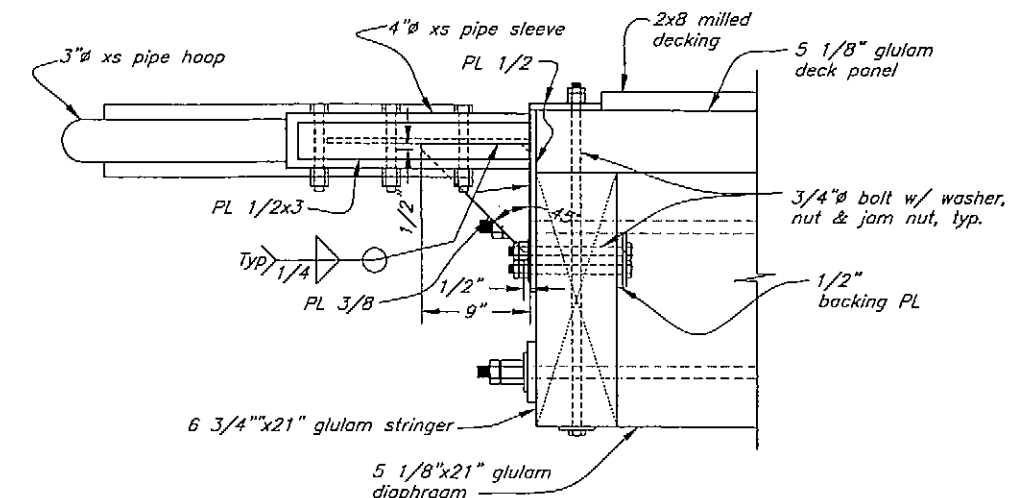
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
		Hoonah Seaplane Float Replacement			
		Gangway Float Pile Collar #3			
CHECKED BY: J. Beedle		Thu, 28/Jul/05 12:58PM			
DRAFTED BY: C. Fuman					
PATH: Q:\Inh\68348\MF\Planter\30 GW Pile Collar 3.dwg					
PLOT: PSPACE 1=1					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		68348	2005	30	36

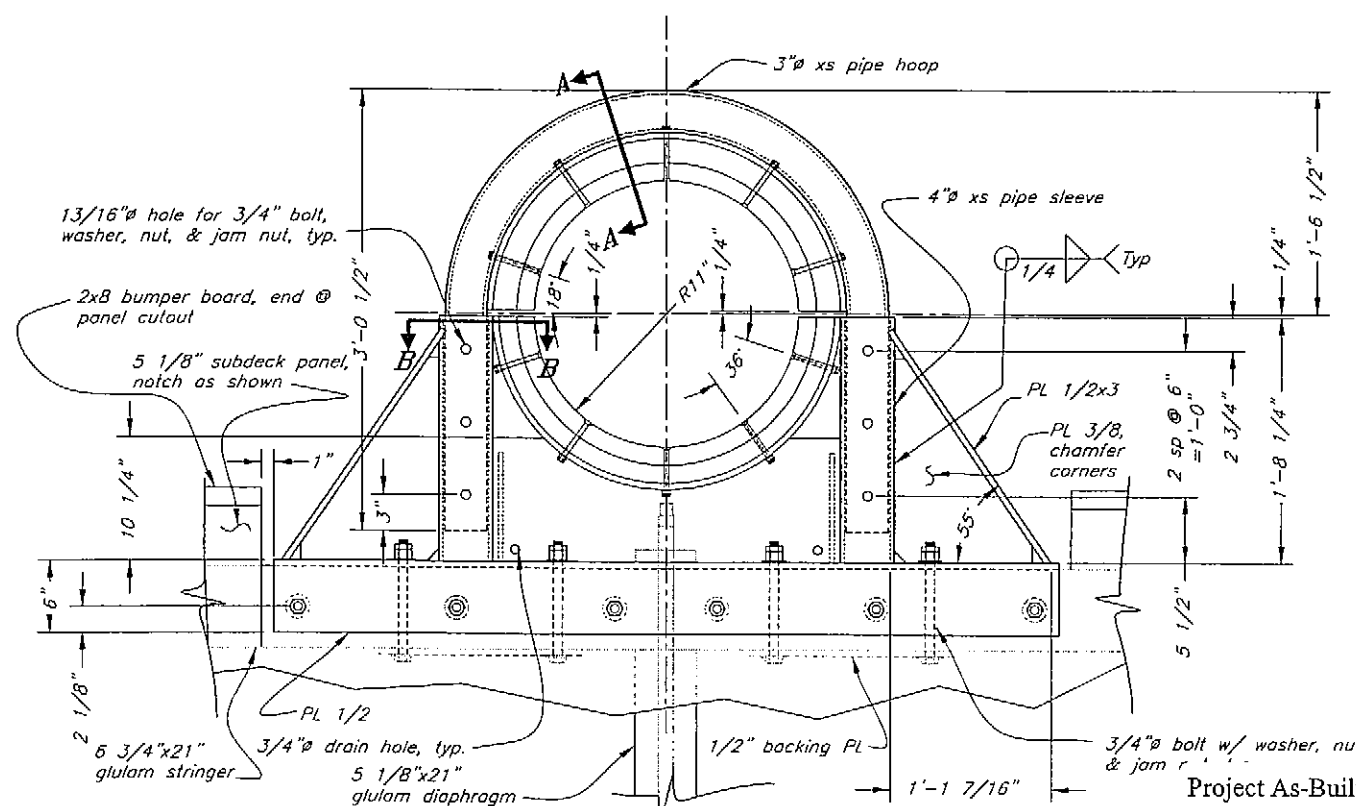


Pile Collar #4 Elevation

Backing PL



Pile Collar #4 Side View

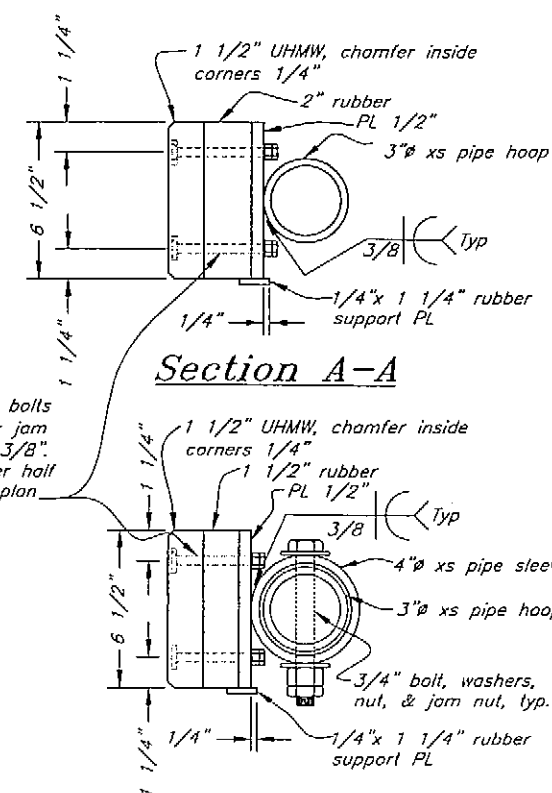


Pile Collar #4 Plan

Note: Bullrail not shown for clarity

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. B. B. B. B. Date: 10/07

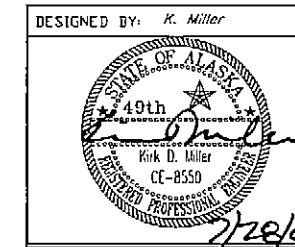


Section A-A

Section B-B

Note: All welds may not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



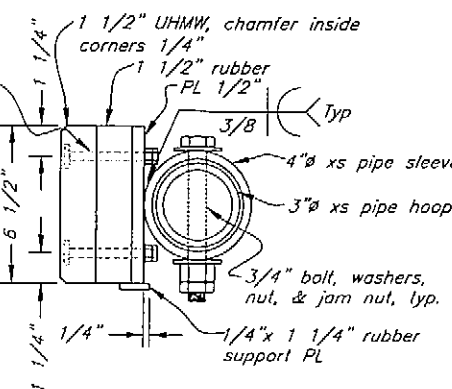
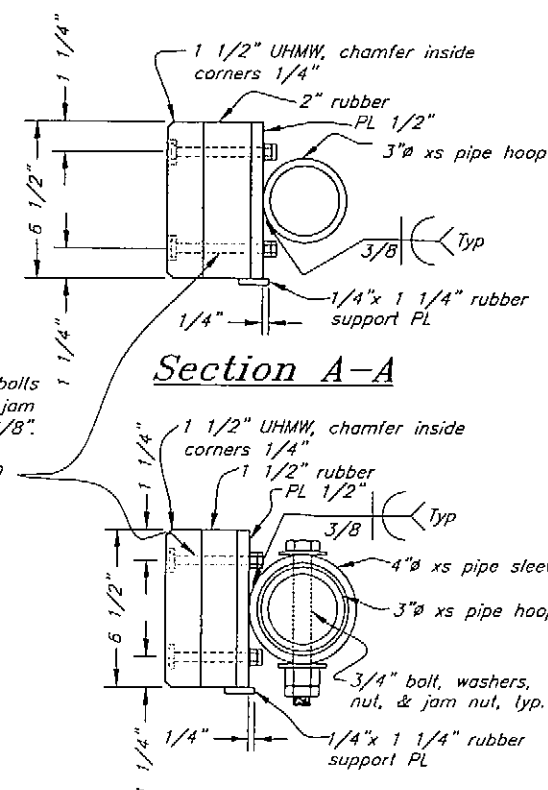
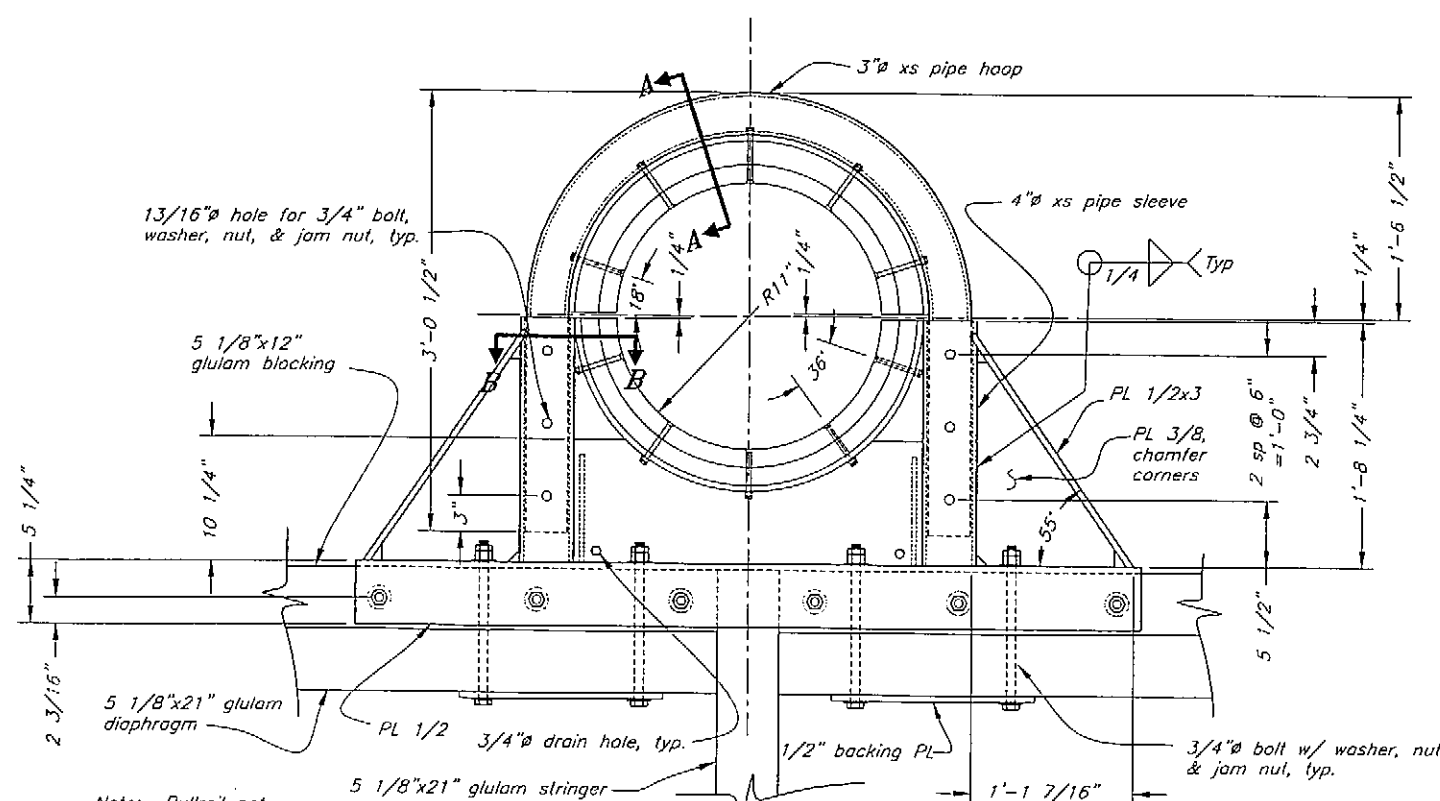
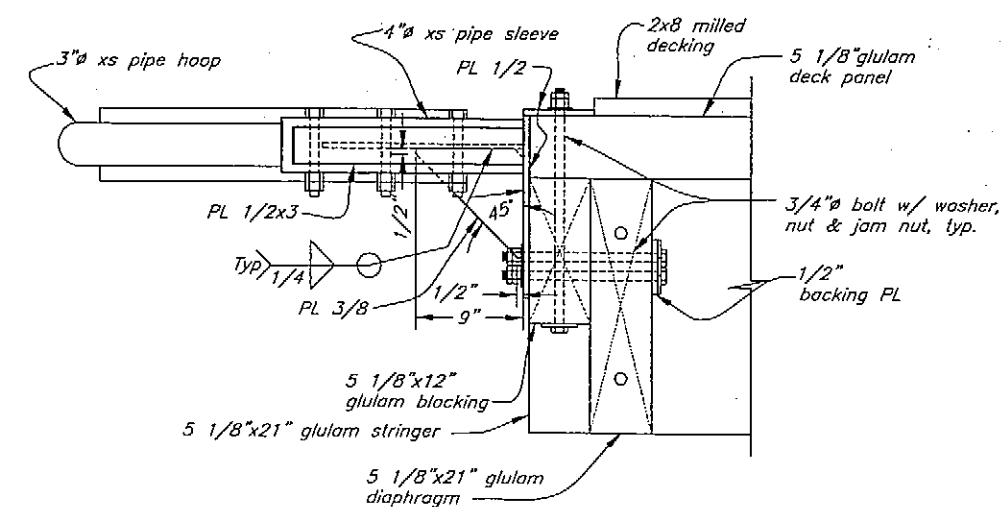
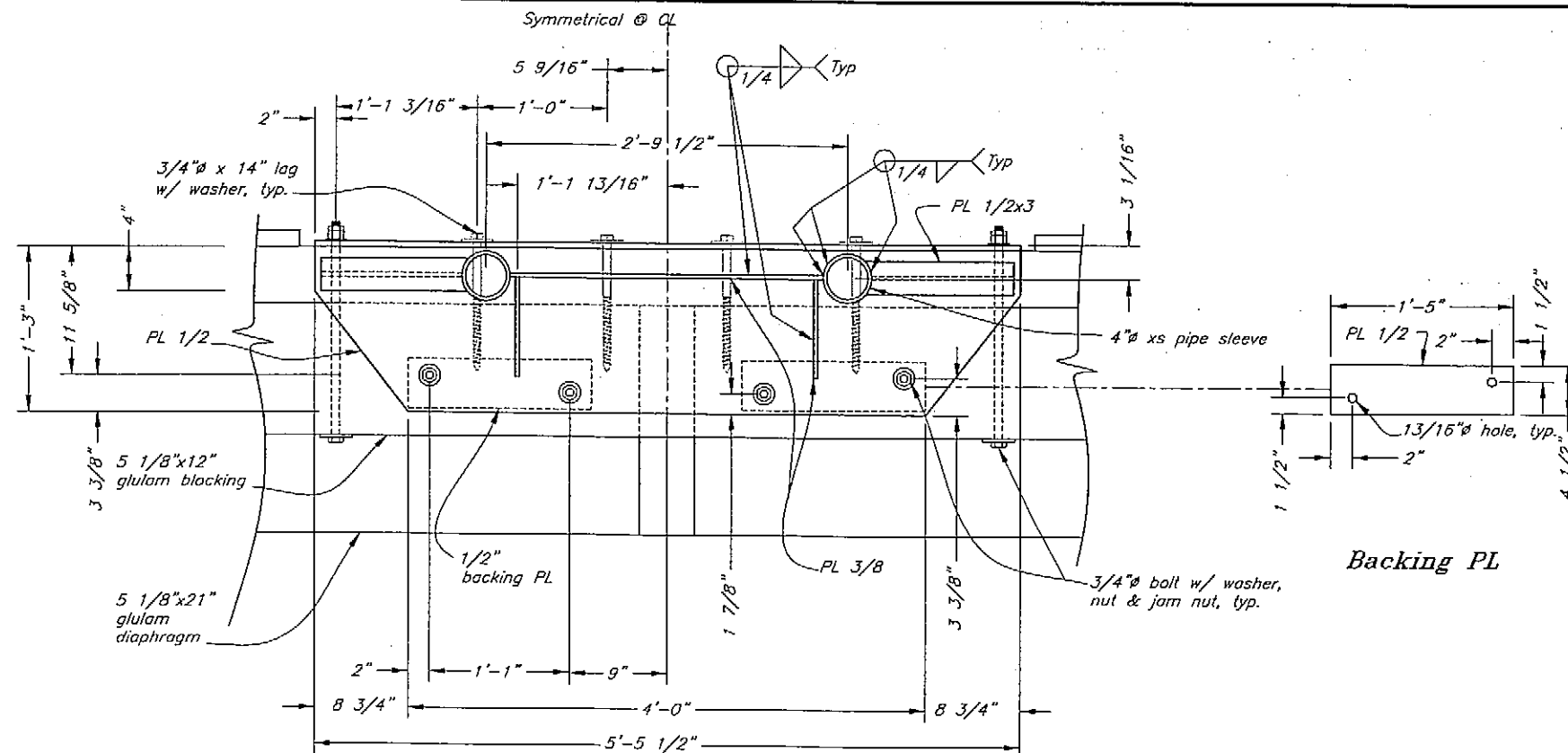
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float Replacement

Main Float Pile Collar #4

CHECKED BY: J. Beedle
DRAFTED BY: C. Fuman
PATH: Q:\Hnh\68348\MF\Plans\J1 Main Float Pile collar 4.dwg
PLOT: PSPACE 1=1 Tab: Pile Collars 4 Thu, 28/Jul/05 10:31AM

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68348	2005	31	36



Note: All welds may not be shown.
Weld all contacts w/ 1/4" fillet
weld unless otherwise noted

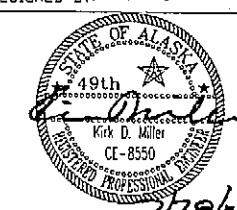
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float Replacement

**Main Float
Pile Collar #5**

DESIGNED BY: K. Miller



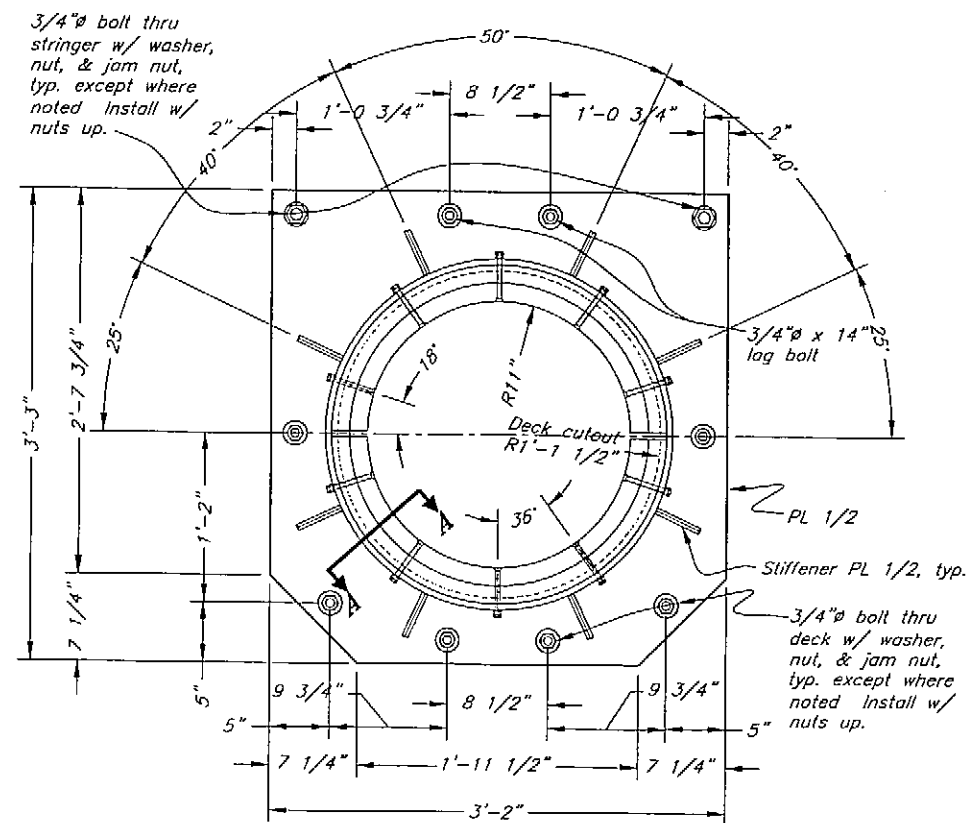
CHECKED BY: J. Beedle
DRAFTED BY: C. Fuman

PATH: Q:\Hph\68348\ME\Plonset\32 Main Float Pile collar 5.dwg

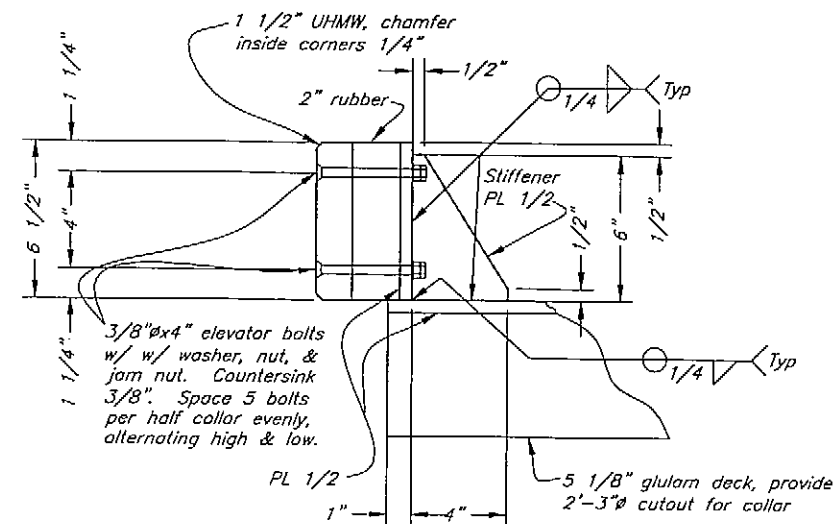
PLOT: PSPACE 1=1 Tab: Pile Collor 5

Thu, 28/Jul/05 10:34AM

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68348	2005	32	36



Interior Pile Collars #6 & #7

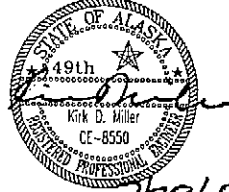


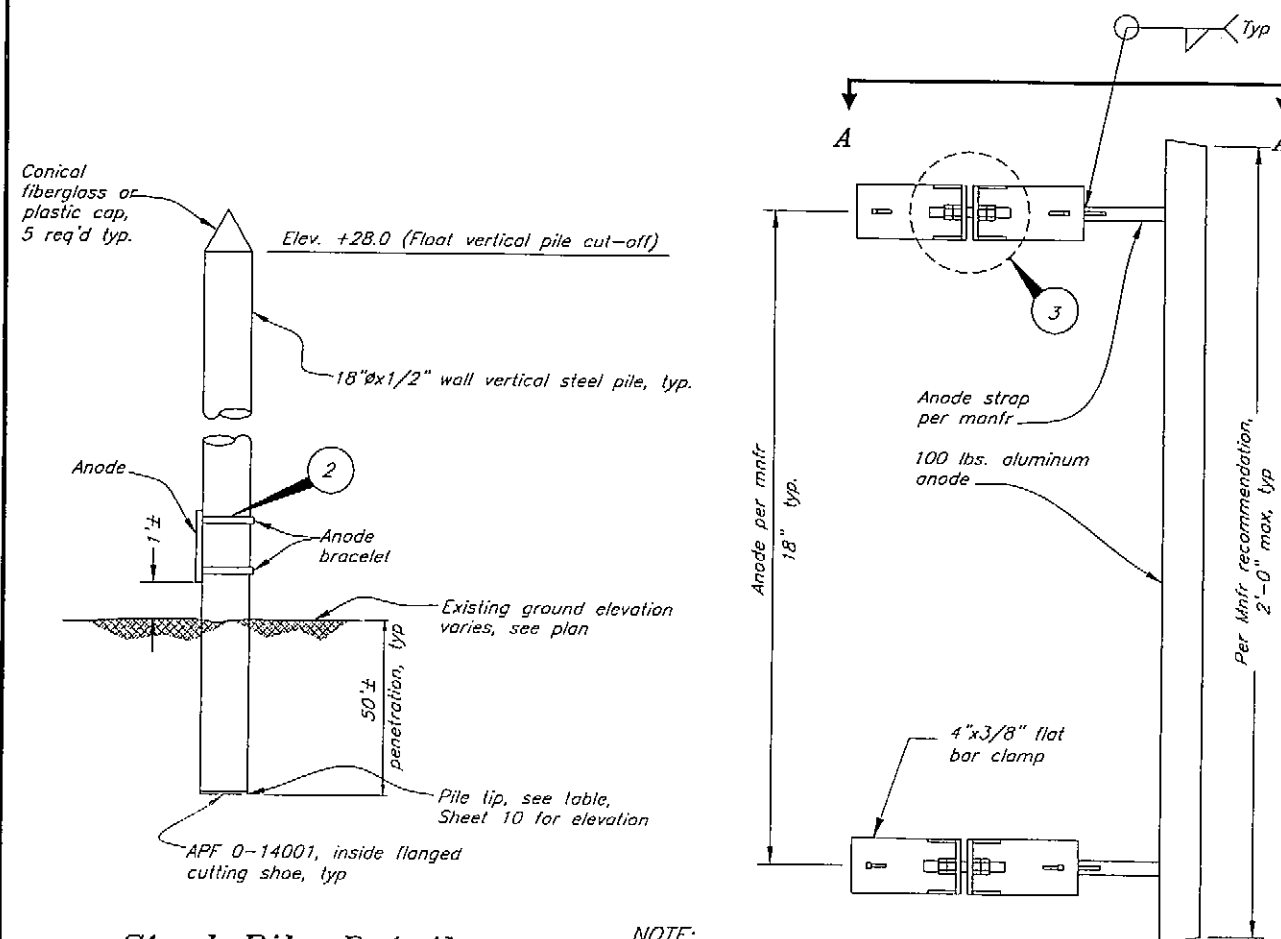
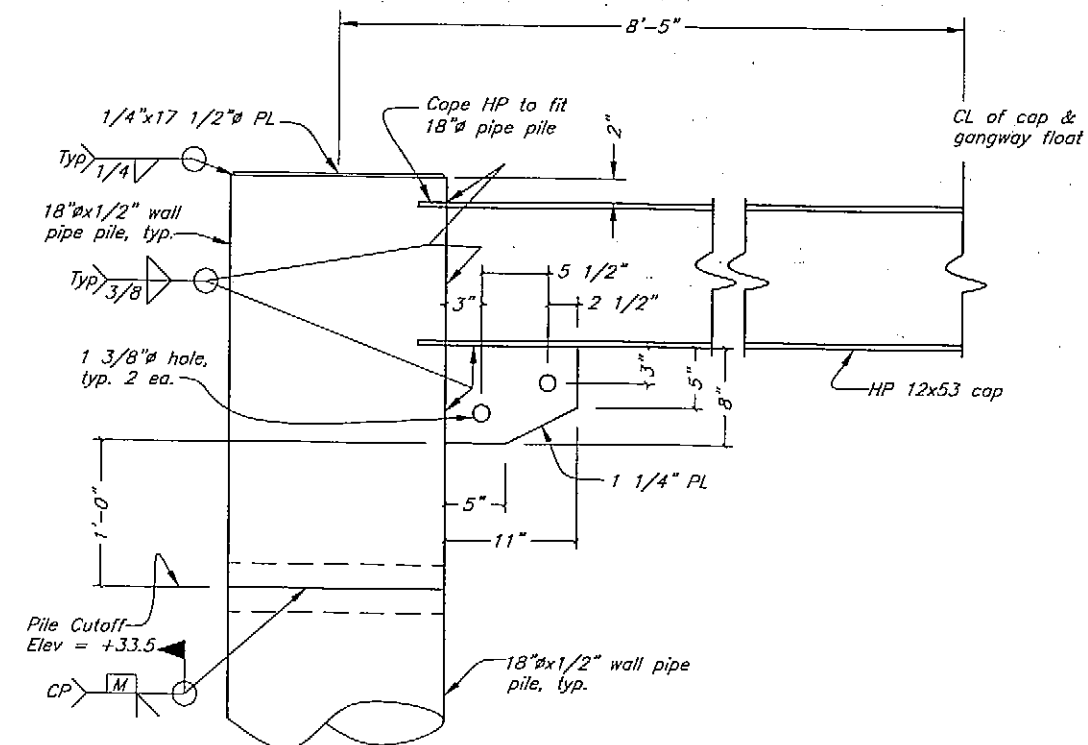
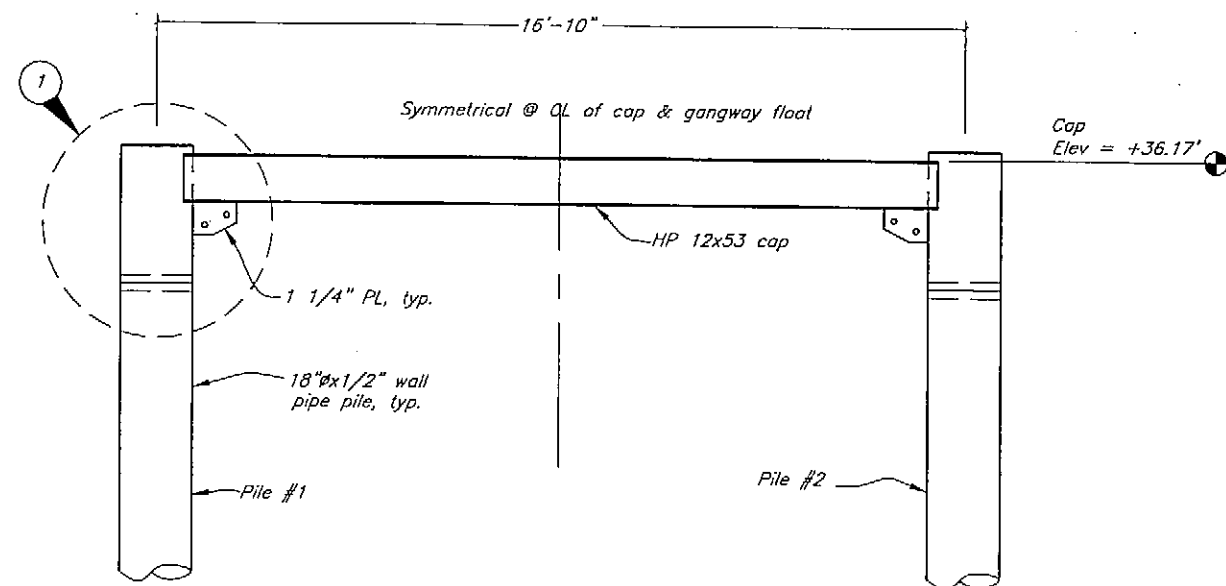
Section A-A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

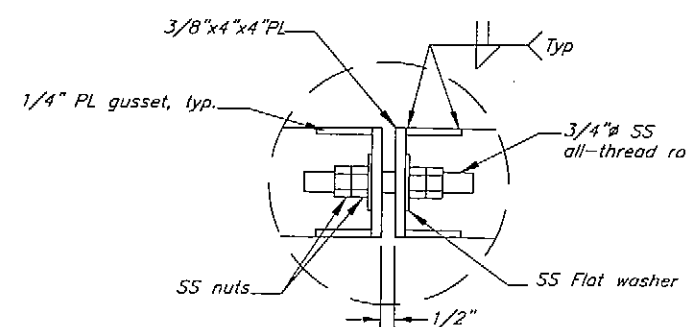
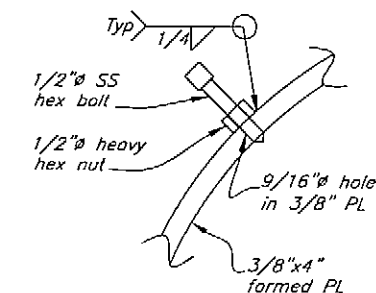
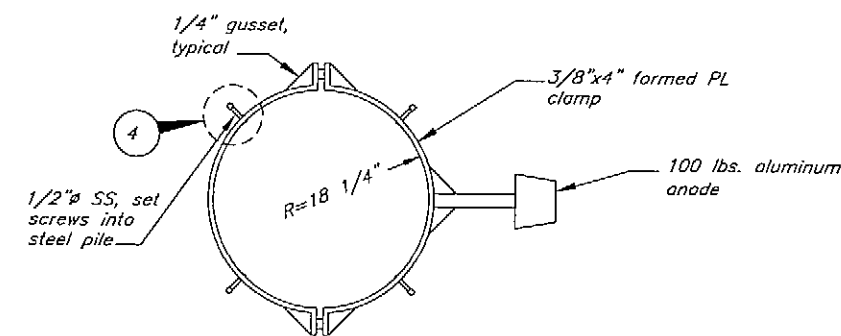
Proj. Engr. BERGAM Date 1/2/07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
		Hoonah Seaplane Float Replacement			
		Main Float Interior Pile Collars #6 & #7			
CHECKED BY: J. Beadie		PATH: Q:\hnh\68348\MF\PlanSet\33 Main Float Pile collar 6 & 7.dwg			
DRAFTED BY: C. Fuman		PLOT: PSPACE 1=1 Tab: Pile Collars interior Thu, 28/Jul/05 10:36AM			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		68348	2005	33	36



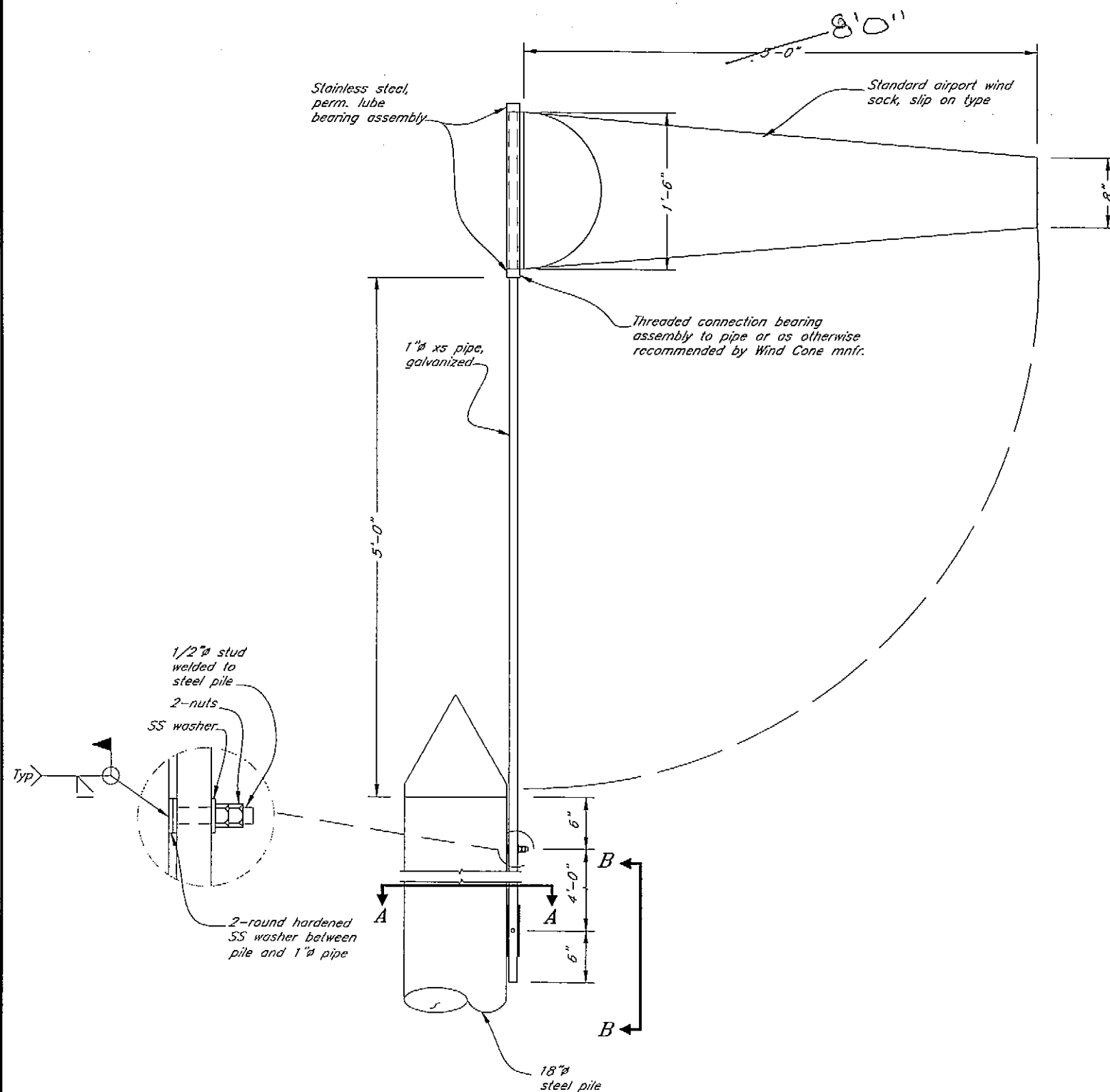
NOTE:
Anodes may be field welded
to pile in lieu of bracelet.



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr 1. BERGIAN Date 9/9/07

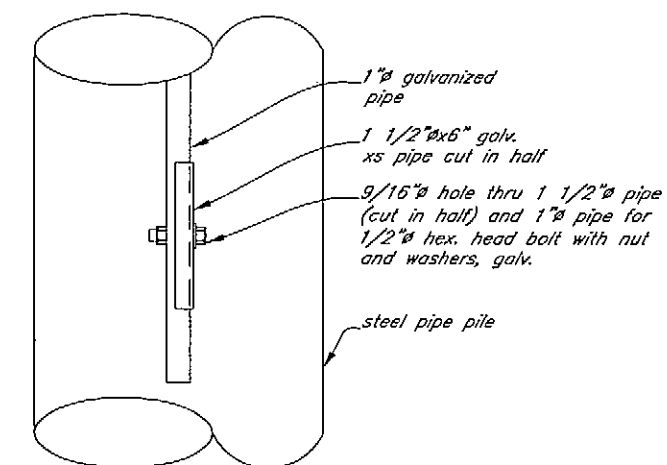
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS	
DESIGNED BY: <i>K. Miller</i> 	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement
CHECKED BY: <i>J. Beagle</i> DRAFTED BY: <i>C. Furman/Slatt</i>	Pile Details
PATH: <i>C:\Hnh\68348\MF\Plans\J4 Pile Details.dwg</i> PLOT: PSPACE 1=1 TAB: DETAIL	



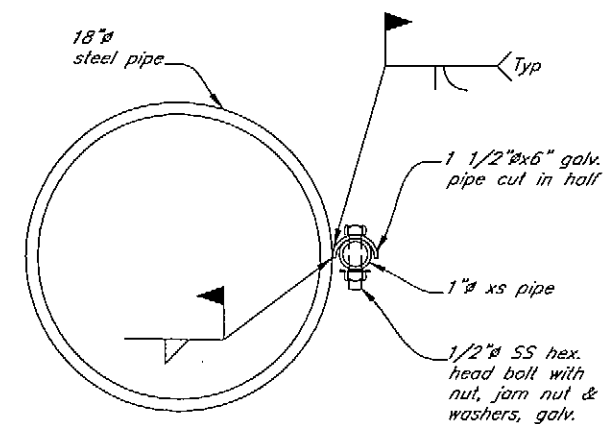
WIND CONE DETAIL

1 REQUIRED

1



Section B-B



Section A-A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

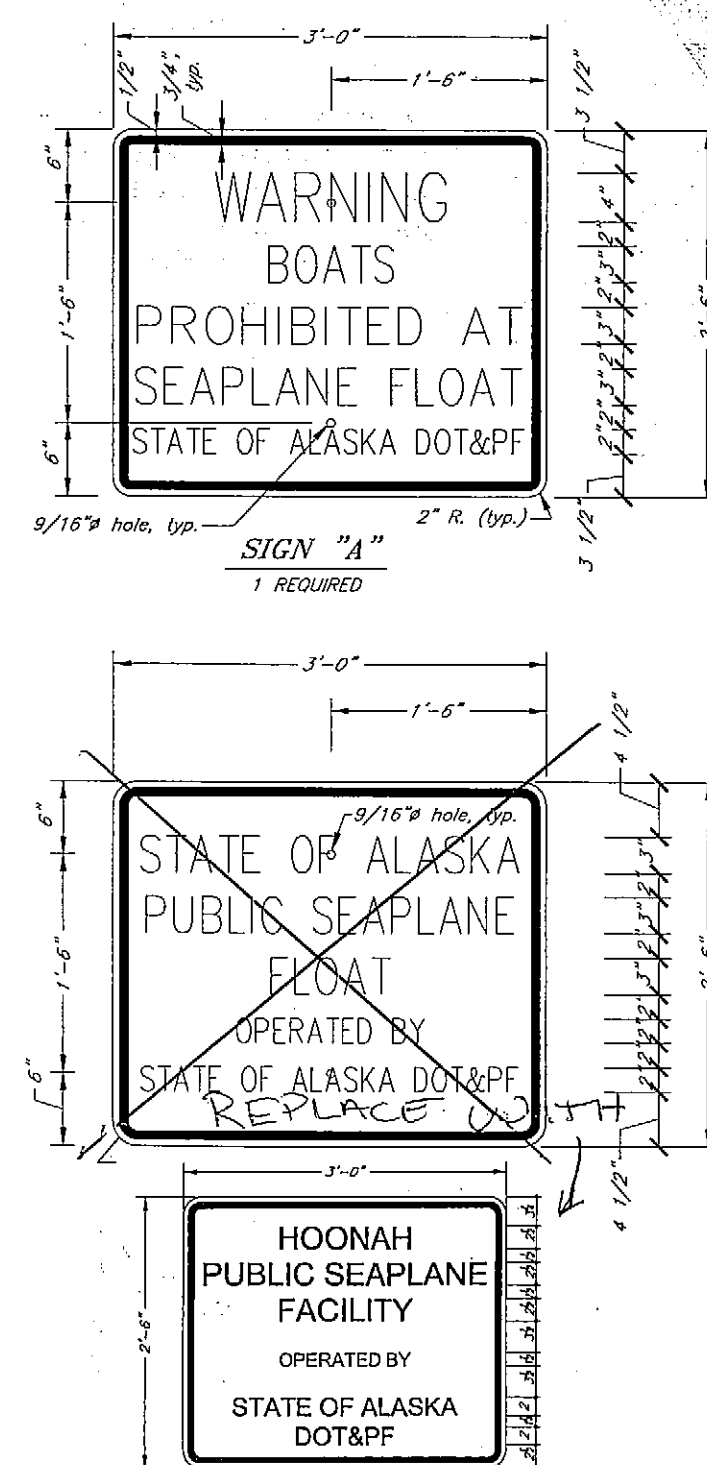
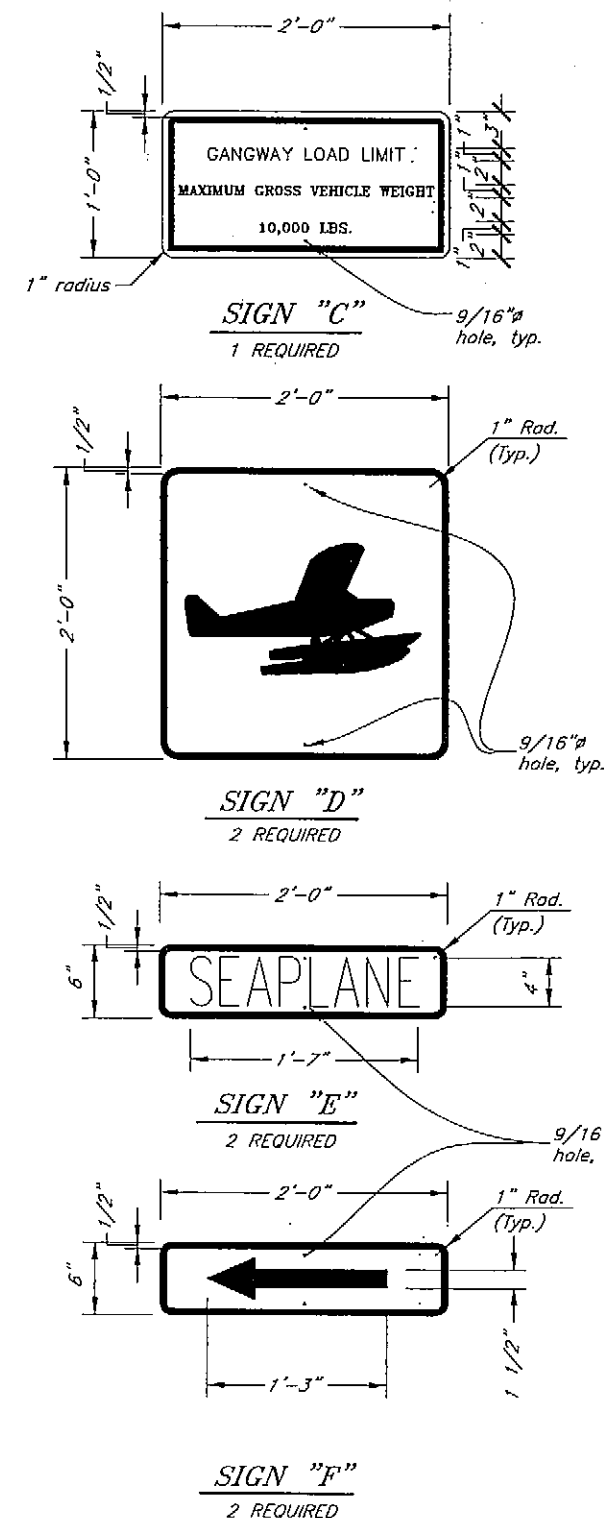
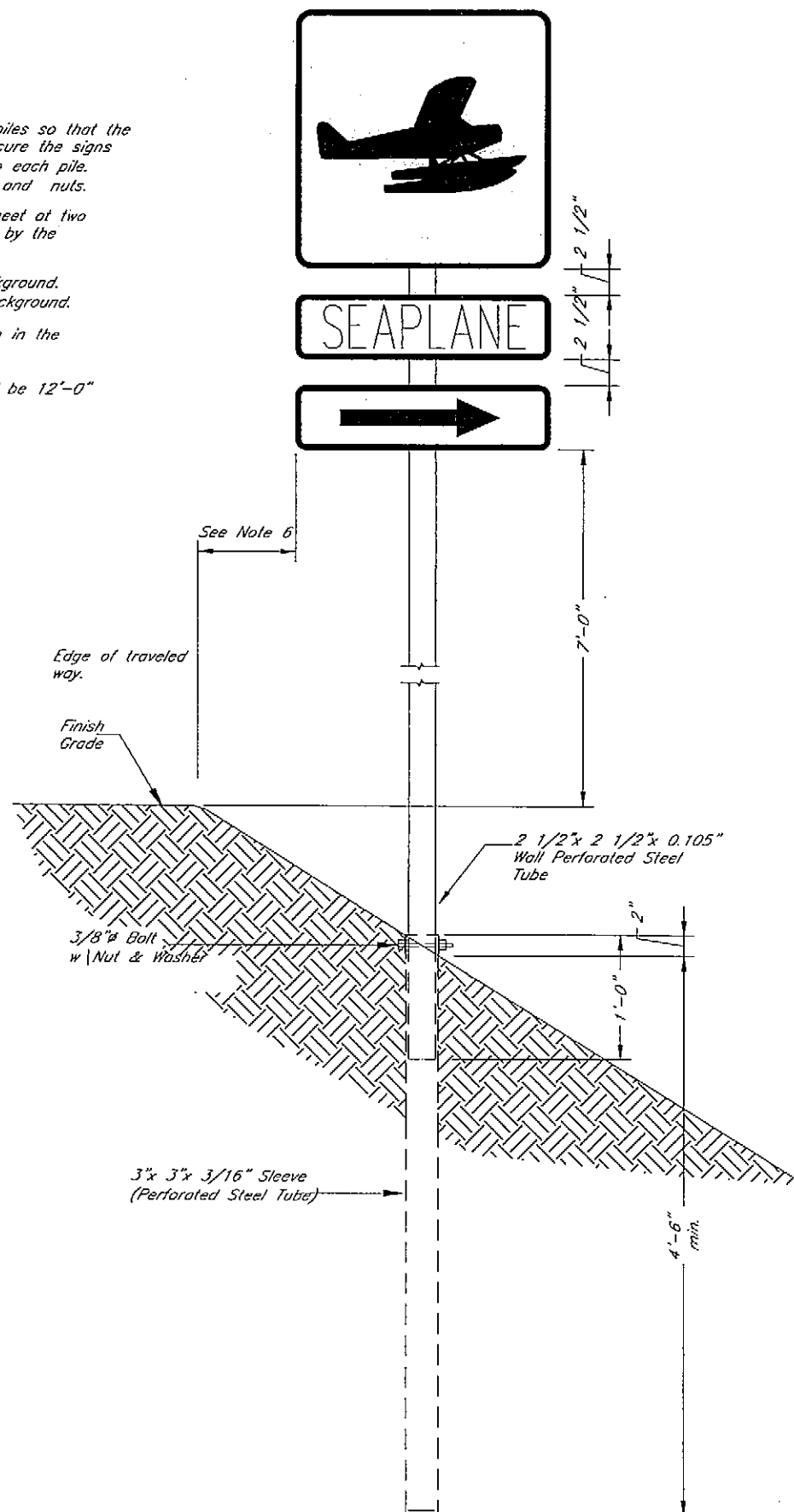
Proj. Engr T. BERGAN Date 1/8/07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: <u>K. Miller</u>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION			
		Hoonah Seaplane Float Replacement			
		Wind Cone Details			
CHECKED BY: <u>J. Beedle</u>		PROJECT DESIGNATION			
DRAFTED BY: <u>C. Fuman</u>		YEAR			
PATH: <u>Q:\Hnh\68348\MF\PlanSet\35 Tie Down & Wind Cone.dwg</u>		SHEET NO.			
PLOT: PSPACE 1=1 Tab: Layout1 Thu, 28/Jul/05 12:59PM		TOTAL SHEETS			
NO. DATE REVISIONS DESCRIPTION		68348 2005 35 36			

1. See Sheet 7 for sign summary and locations.

2. Align the top of sign "A" & "B" with the top of of float piles so that the signs are visible when approaching from the water side. Secure the signs by welding the heads of two 1/2" stainless steel bolts to each pile. Place the sign and install 1/2" flat stainless steel washers and nuts.
3. Signs "D", "E" & "F" shall be installed as shown on this sheet at two locations on Harbor Way. Signs shall be riveted as directed by the Engineer. (1/4" aluminum rivets) to the steel tube.
4. Signs "A", "B" & "C" shall have black legend on white background. Signs "D", "E" & "F" shall have white legend on green background.
5. Sign lettering shall conform to the size and style as shown in the plans and the Alaska Sign Design Designation (ASDS).
6. Clearance between edge of roadway and edge of sign shall be 12'-0" or 2'-0" behind curb and gutter, sidewalk or guardrail.



Sign "B"
(2 req'd) FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Hoonah Seaplane Float Replacement

Sign Details

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. BERG A Date 1/8/07

DESIGNED BY: <i>K. Miller</i>  CHECKED BY: <i>J. Deedie</i> DRAFTED BY: <i>Stall</i>	FROM THESE DRAWINGS USE DIMENSIONS (2 req'd) STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION Hoonah Seaplane Float Replacement Sign Details																							
PATH: <i>Q:\Hnh\68348\MF\Planes\36 Sign Details .dwg</i> PLOT: <i>PSPACE 1=1</i> <i>Tue, 28/Jul/05 02:06PM</i>																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">REVISIONS</th> </tr> <tr> <th style="width: 10%;">NO.</th> <th style="width: 15%;">DATE</th> <th style="width: 85%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 40%;">PROJECT DESIGNATION</th> <th style="width: 15%;">YEAR</th> <th style="width: 15%;">SHEET NO.</th> <th style="width: 30%;">TOTAL SHEETS</th> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">68348</td> <td style="text-align: center; font-size: 1.2em;">2005</td> <td style="text-align: center; font-size: 1.2em;">36</td> <td style="text-align: center; font-size: 1.2em;">36</td> </tr> </table>	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	68348	2005	36	36
REVISIONS																								
NO.	DATE	DESCRIPTION																						
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																					
68348	2005	36	36																					