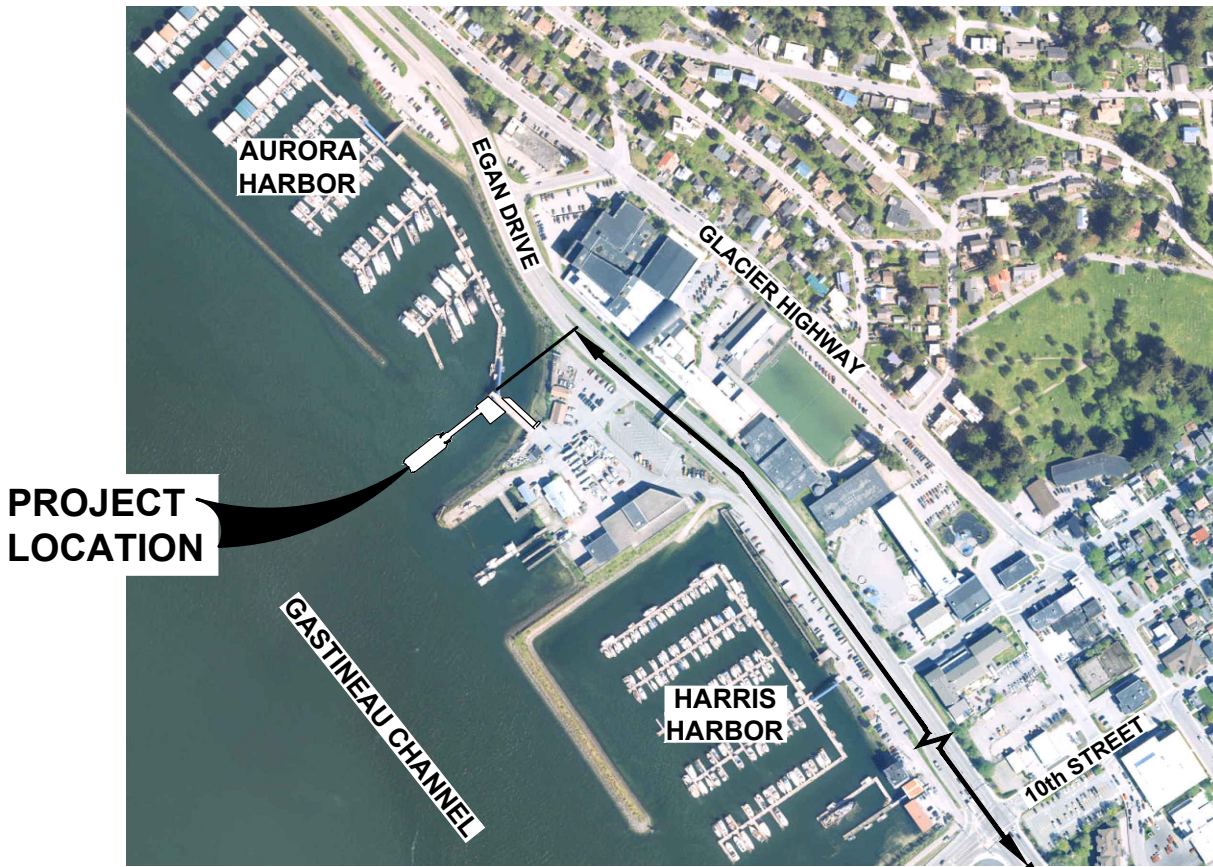


LOCATION MAP



APPROXIMATELY 1.12 MILES FROM PROJECT SITE TO DOWNTOWN JUNEAU



VICINITY MAP

PURPOSE:

REPLACEMENT OF AN EXISTING FLOAT TO MAINTAIN AND IMPROVE PUBLIC SAFETY AND TRANSPORTATION NEEDS OF THE COMMUNITY.

DATUM:

MLLW = 0.0' FT

DATUM SOURCE:

NOAA STATION 945-2210 (JUNEAU, AK)

HTL = 20.6'
MHW = 15.3'

PND#: 252065

**AURORA HARBOR
DRIVE DOWN FLOAT**

APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA

FILE NO:

WATERWAY: GASTINEAU CHANNEL

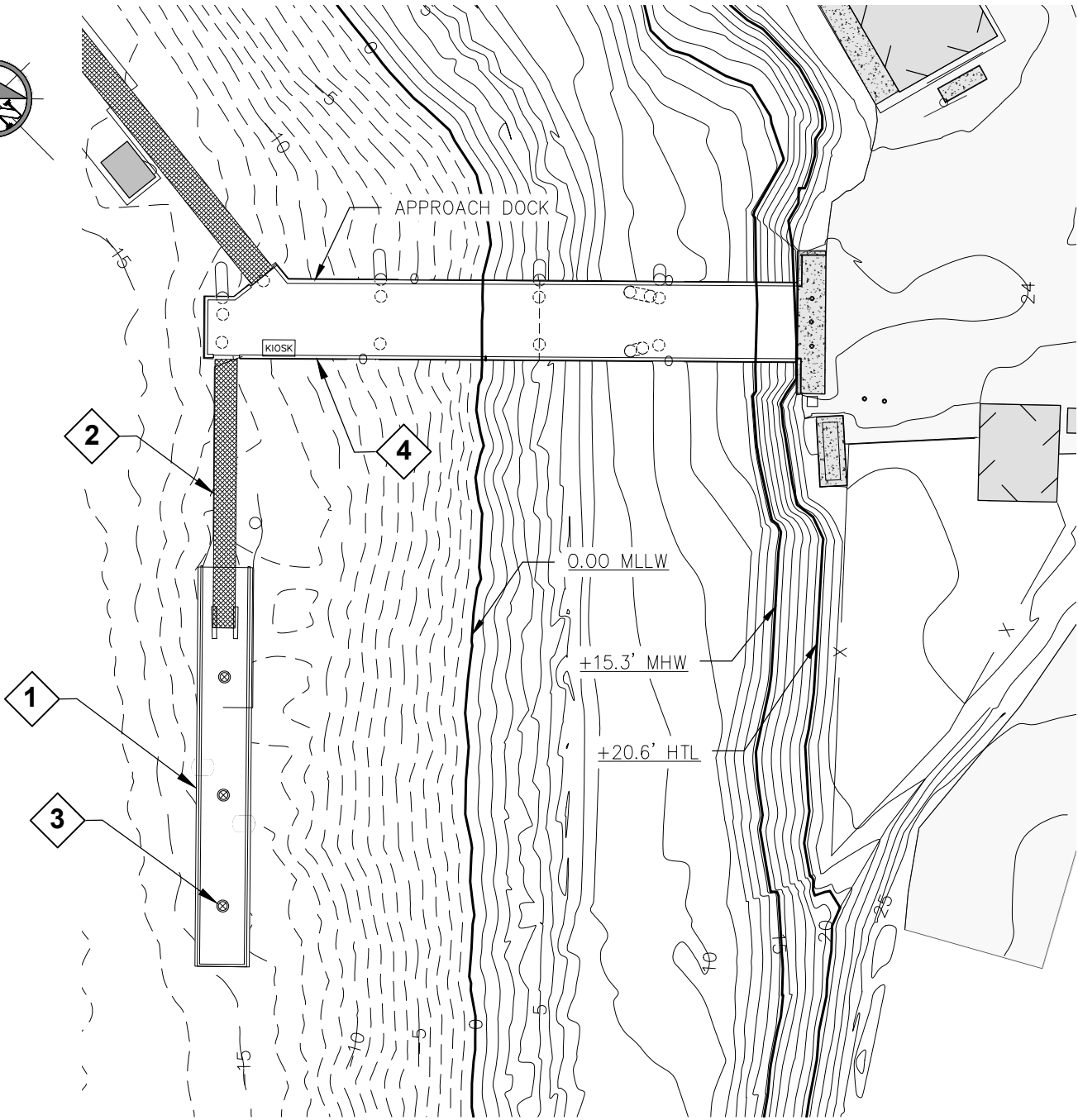
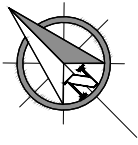
PROPOSED ACTIVITY: DRIVE DOWN FLOAT

S: 22 T: 41S R: 67E M: Copper River

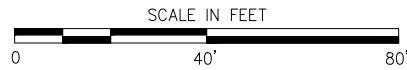
LAT: 58.303964 N LONG: -134.432239 W

DATE: NOVEMBER 2025

SHEET 1 OF 10



EXISTING CONDITIONS AND DEMOLITION PLAN



DEMOLITION SUMMARY

- ① **FLOATS:** REMOVE 14'X100' HDPE PIPE PONTOON FLOAT IN ITS ENTIRETY.
- ② **GANGWAY:** REMOVE 6'X70' GANGWAY IN ITS ENTIRETY INCLUDING ALL ASSOCIATED CONNECTING HARDWARE AND APPURTENANCES.
- ③ **PILES:** DEMOLISH AND DISPOSE OF (3) 16"Ø STEEL PIPE MOORING PILES AND ALL OTHER MISC. ASSOCIATED PILE MOUNTED APPURTENANCES. PILES SHALL BE REMOVED IN THEIR ENTIRETY.
- ④ **APPROACH DOCK:** DEMOLISH AND SALVAGE OF BULLRAIL, SCUPPERS, RAILING, KIOSK AND BENCH.

**AURORA HARBOR
DRIVE DOWN FLOAT**

APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA

FILE NO:

WATERWAY: GASTINEAU CHANNEL

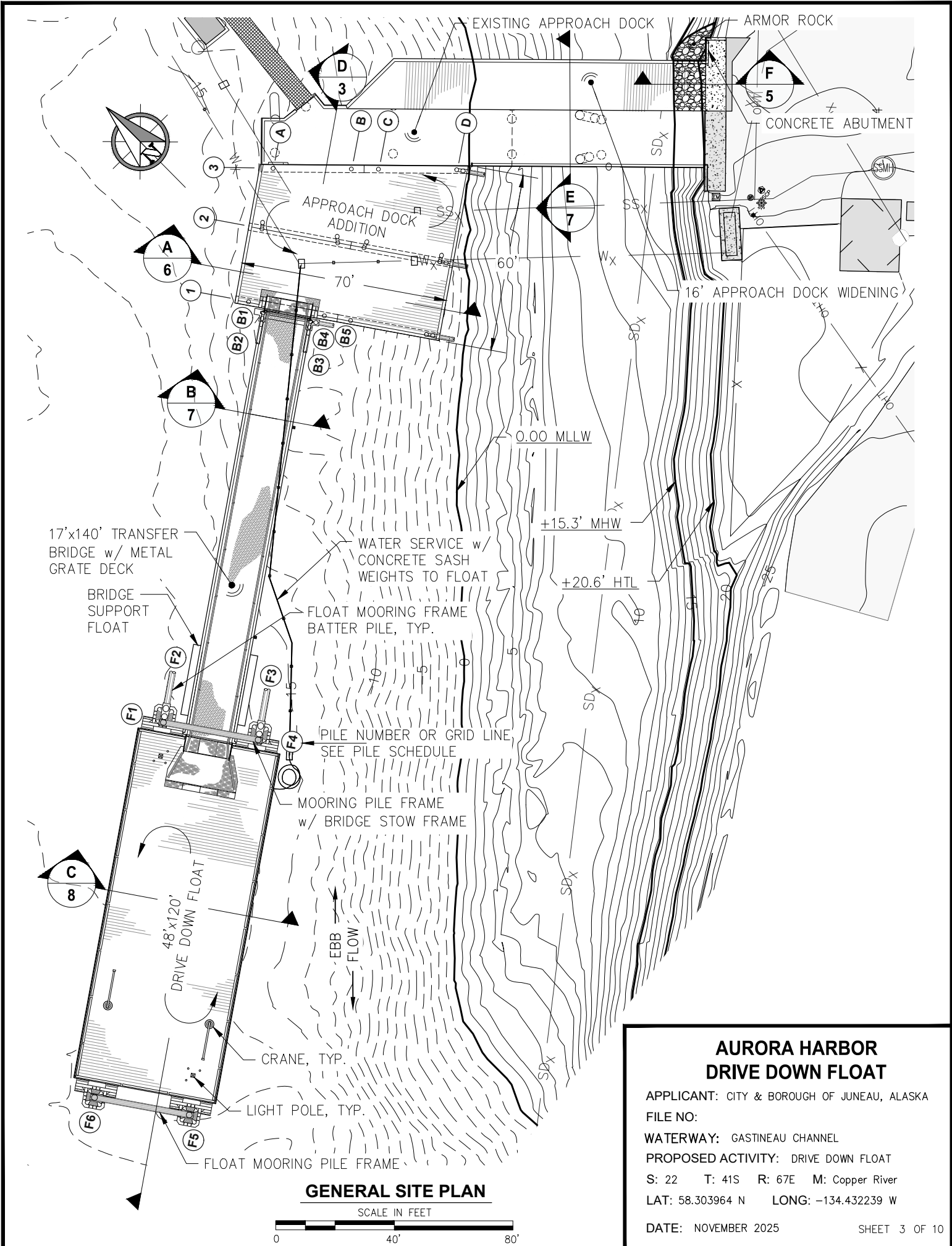
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LAT: 58.303964 N LONG: -134.432239 W

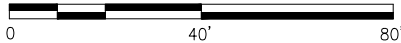
DATE: NOVEMBER 2025

SHEET 2 OF 10



GENERAL SITE PLAN

SCALE IN FEET



**AURORA HARBOR
DRIVE DOWN FLOAT**

APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA

FILE NO:

WATERWAY: GASTINEAU CHANNEL

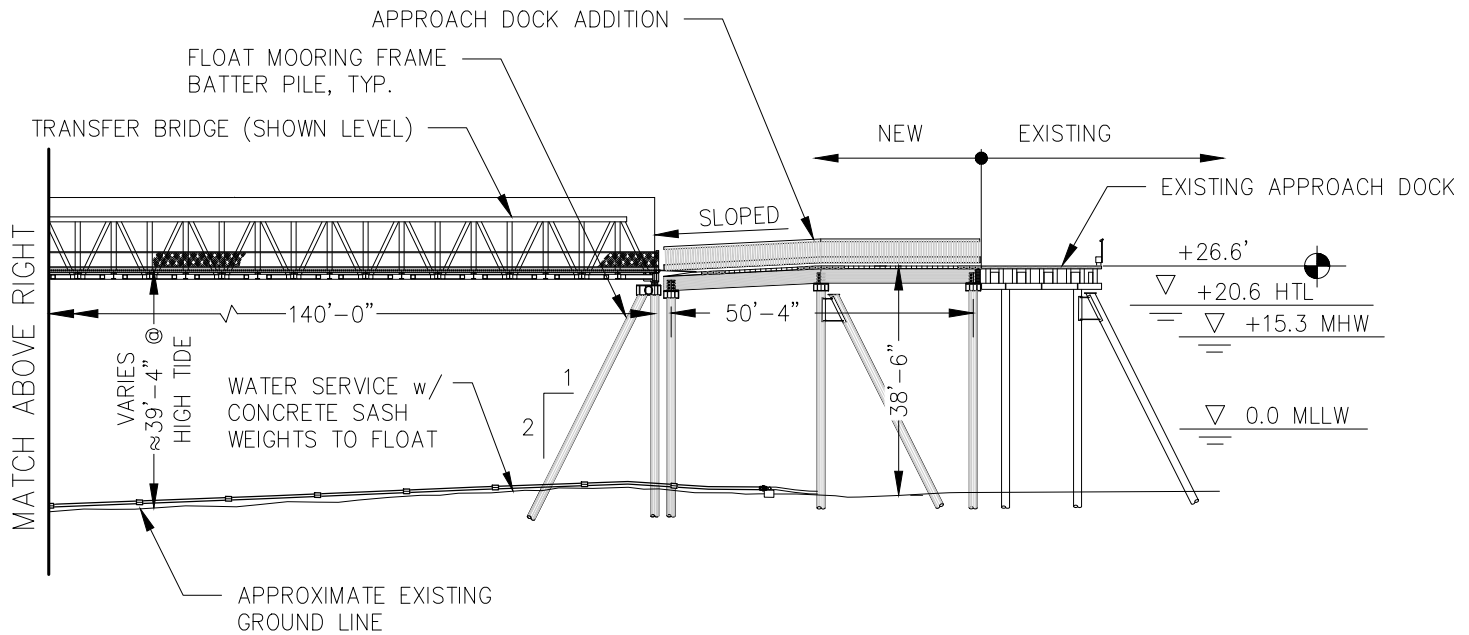
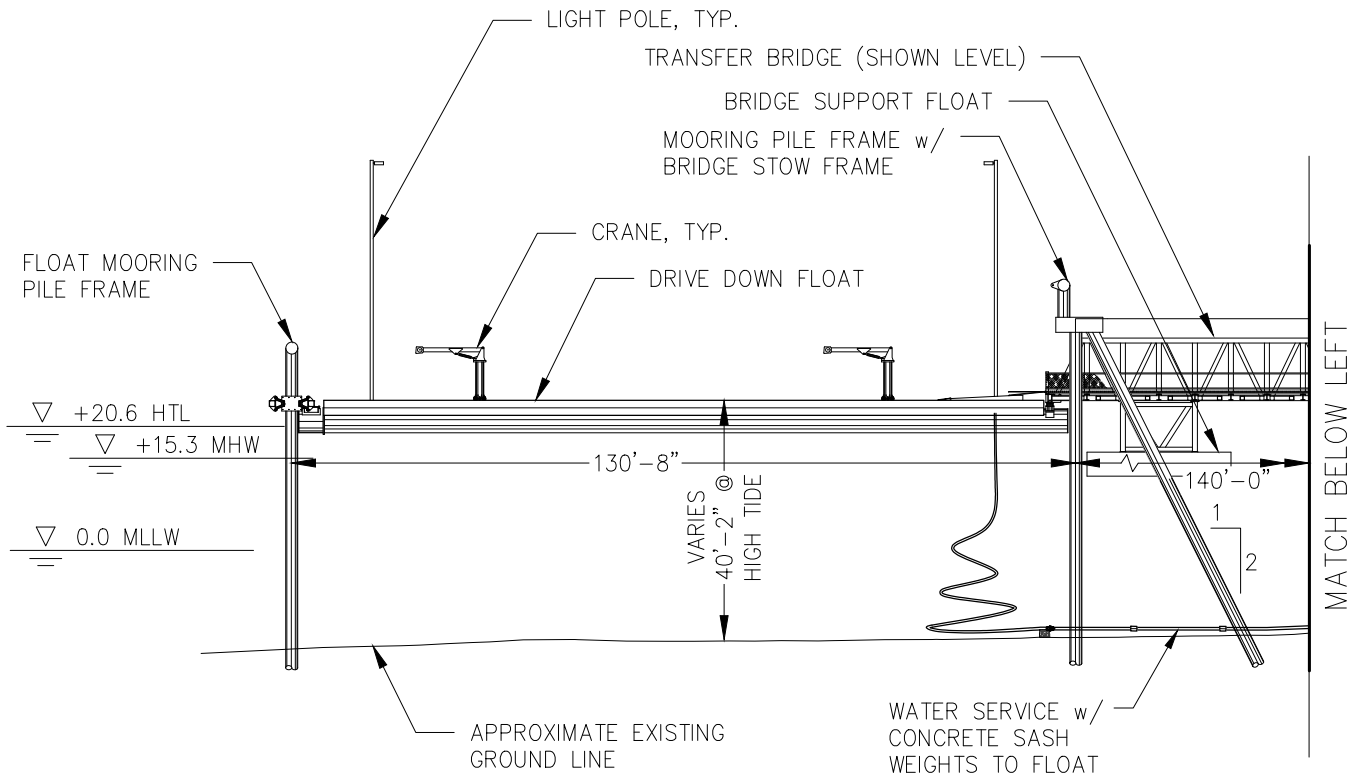
PROPOSED ACTIVITY: DRIVE DOWN FLOAT

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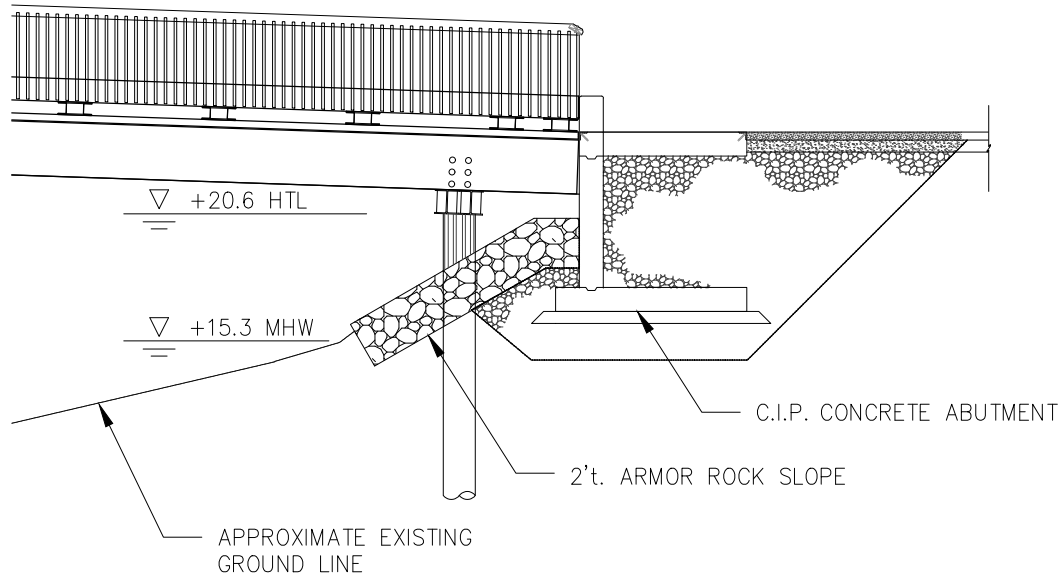
SHEET 3 OF 10



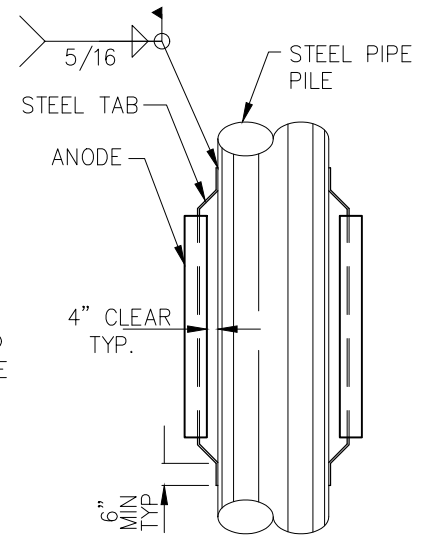
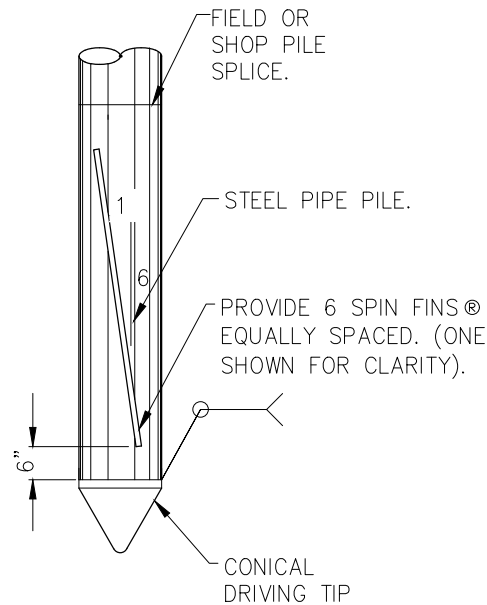
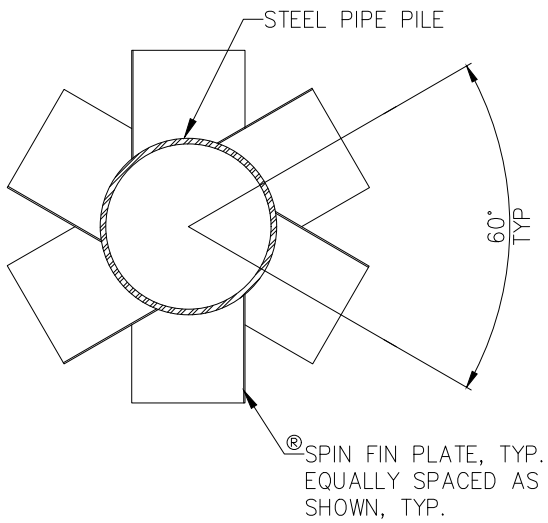
D
3 ELEVATION

**AURORA HARBOR
DRIVE DOWN FLOAT**

APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA
 FILE NO:
 WATERWAY: GASTINEAU CHANNEL
 PROPOSED ACTIVITY: DRIVE DOWN FLOAT
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 LAT: 58.303964 N LONG: -134.432239 W
 DATE: NOVEMBER 2025 SHEET 4 OF 10



F
3 **C.I.P. ABUTMENT**



SPIN FIN[®] PILE IS A REGISTERED TRADEMARK OF PND ENGINEERS, INC.

PILE DETAILS

AURORA HARBOR DRIVE DOWN FLOAT

APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA

FILE NO:

WATERWAY: GASTINEAU CHANNEL

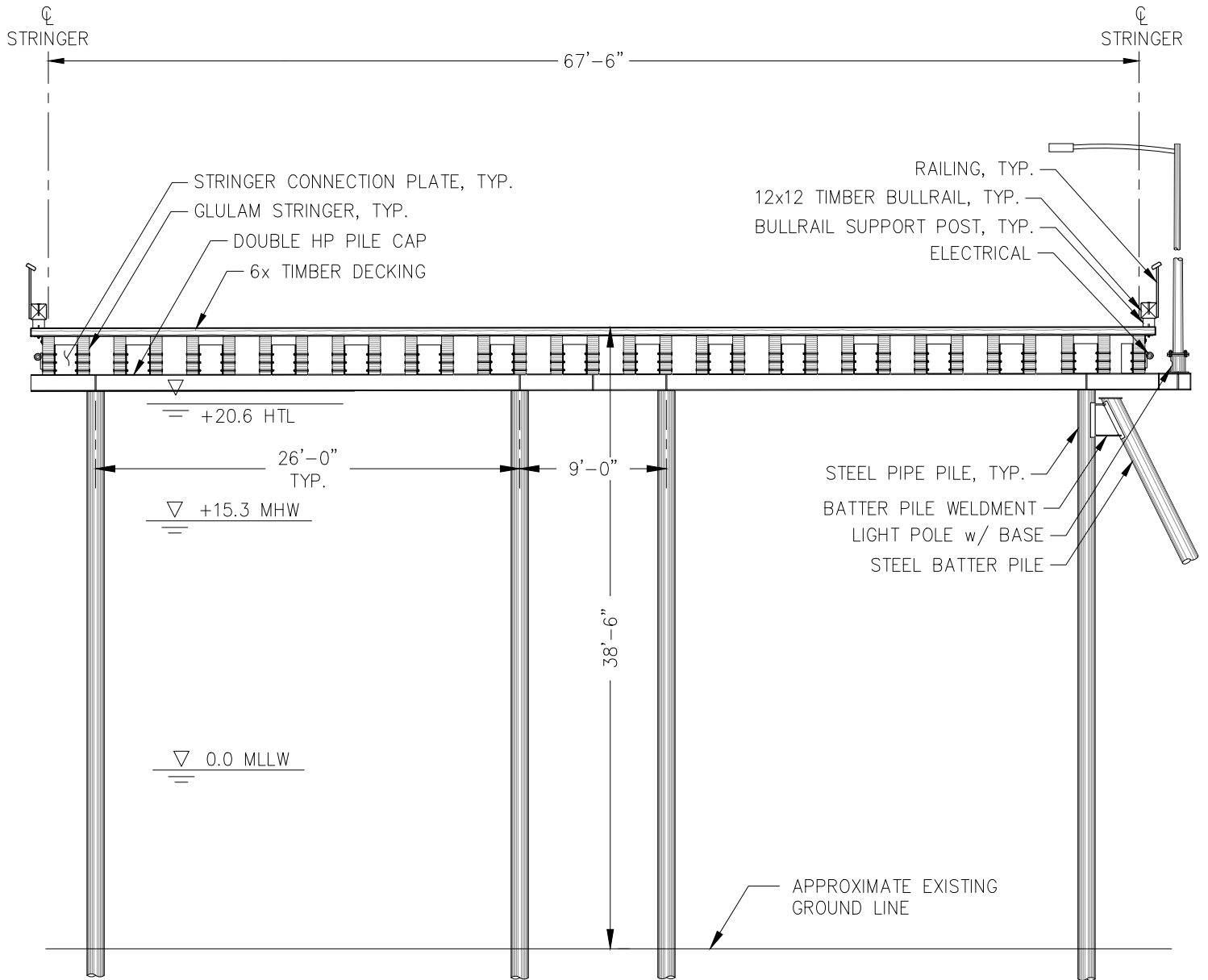
PROPOSED ACTIVITY: DRIVE DOWN FLOAT

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SHEET 5 OF 10



A
3 **APPROACH DOCK TYPICAL SECTION**

**AURORA HARBOR
DRIVE DOWN FLOAT**

APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA

FILE NO:

WATERWAY: GASTINEAU CHANNEL

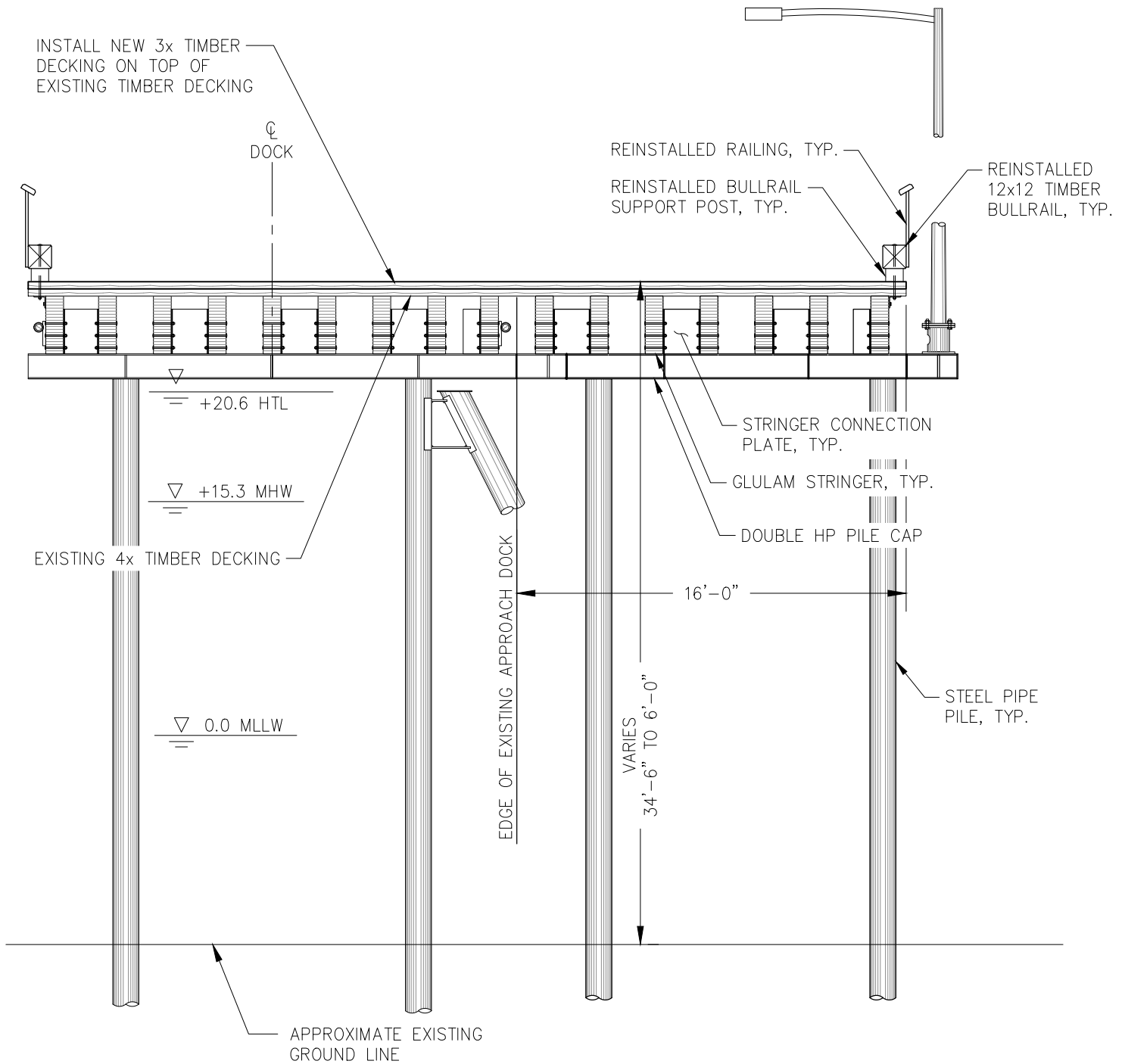
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SHEET 6 OF 10

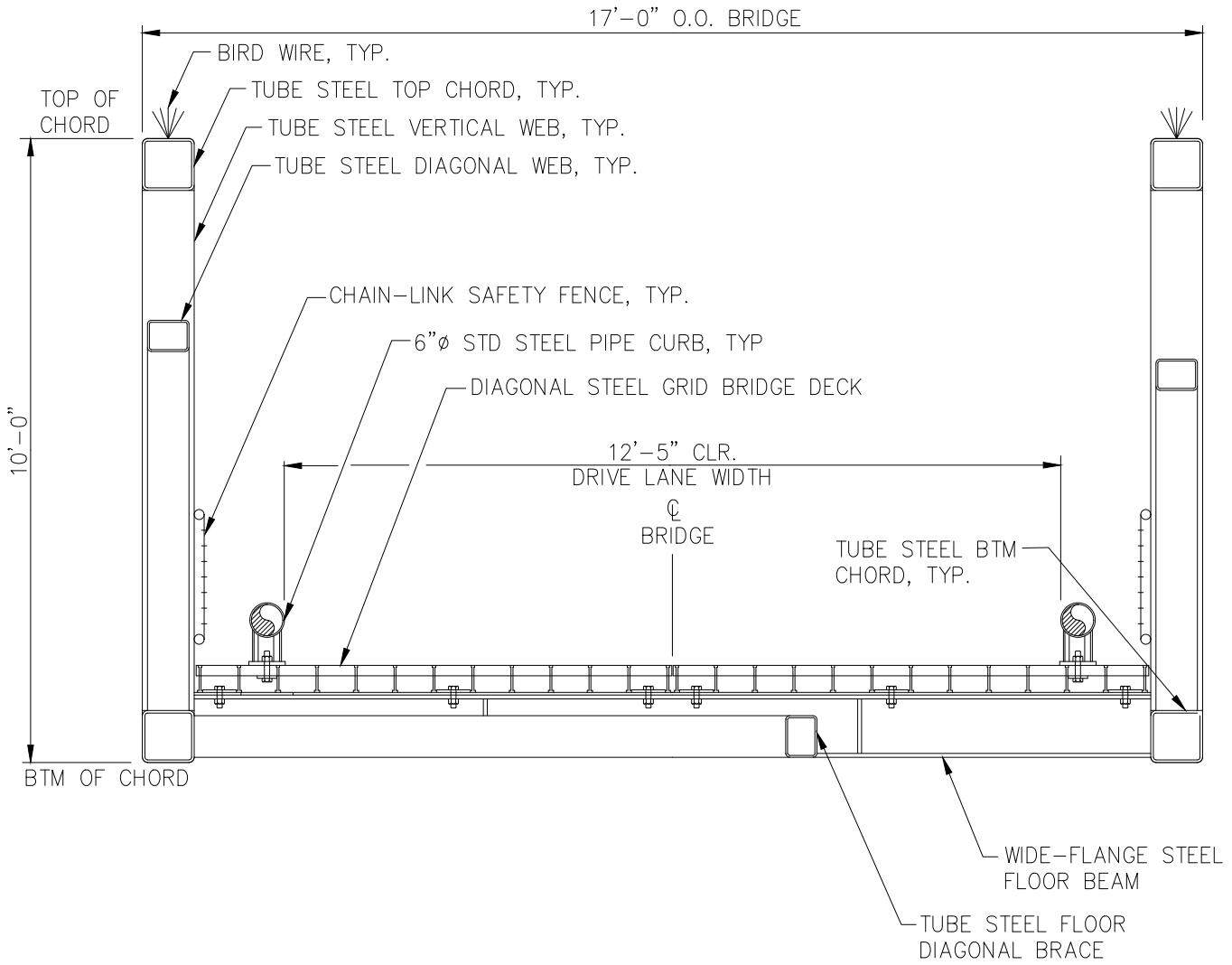


E
3

MODIFICATION OF EXISTING DOCK WITH DOCK WIDENING

**AURORA HARBOR
DRIVE DOWN FLOAT**

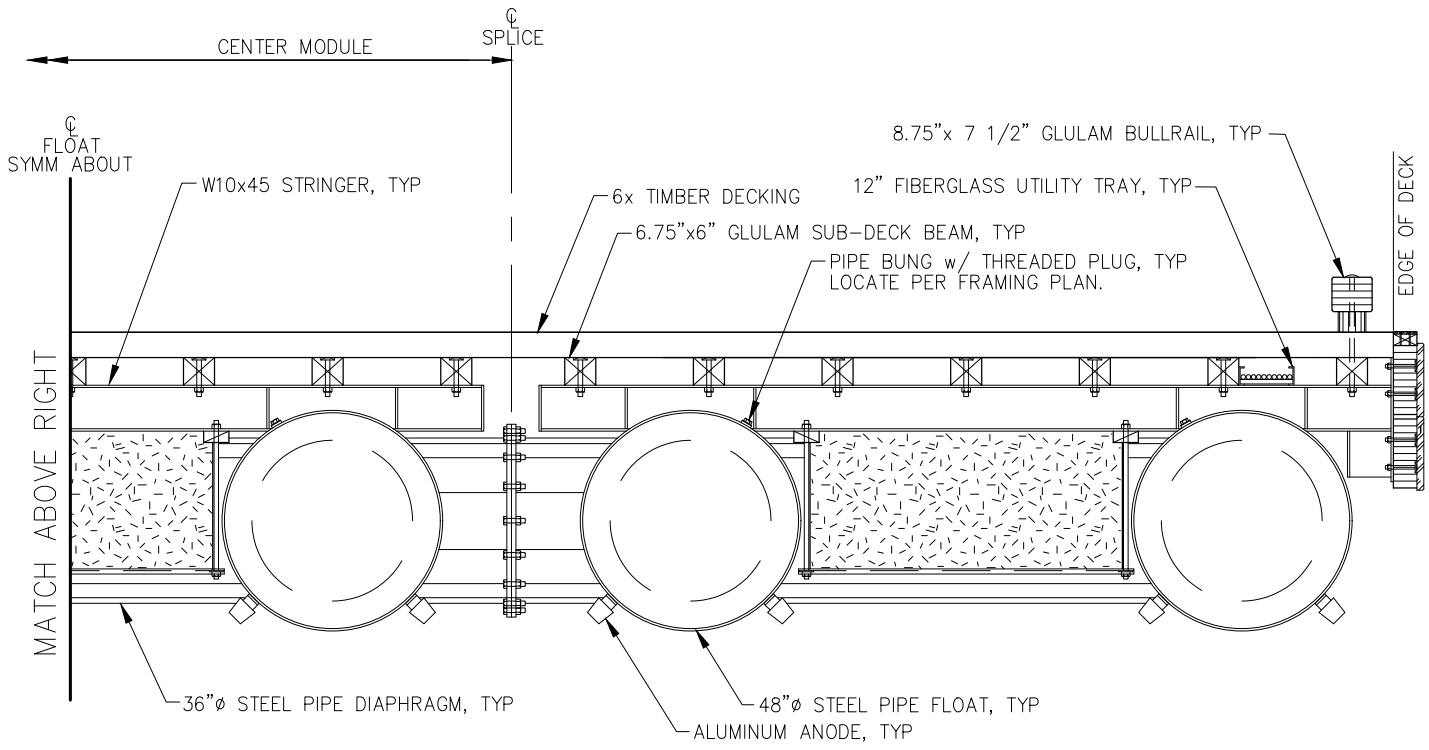
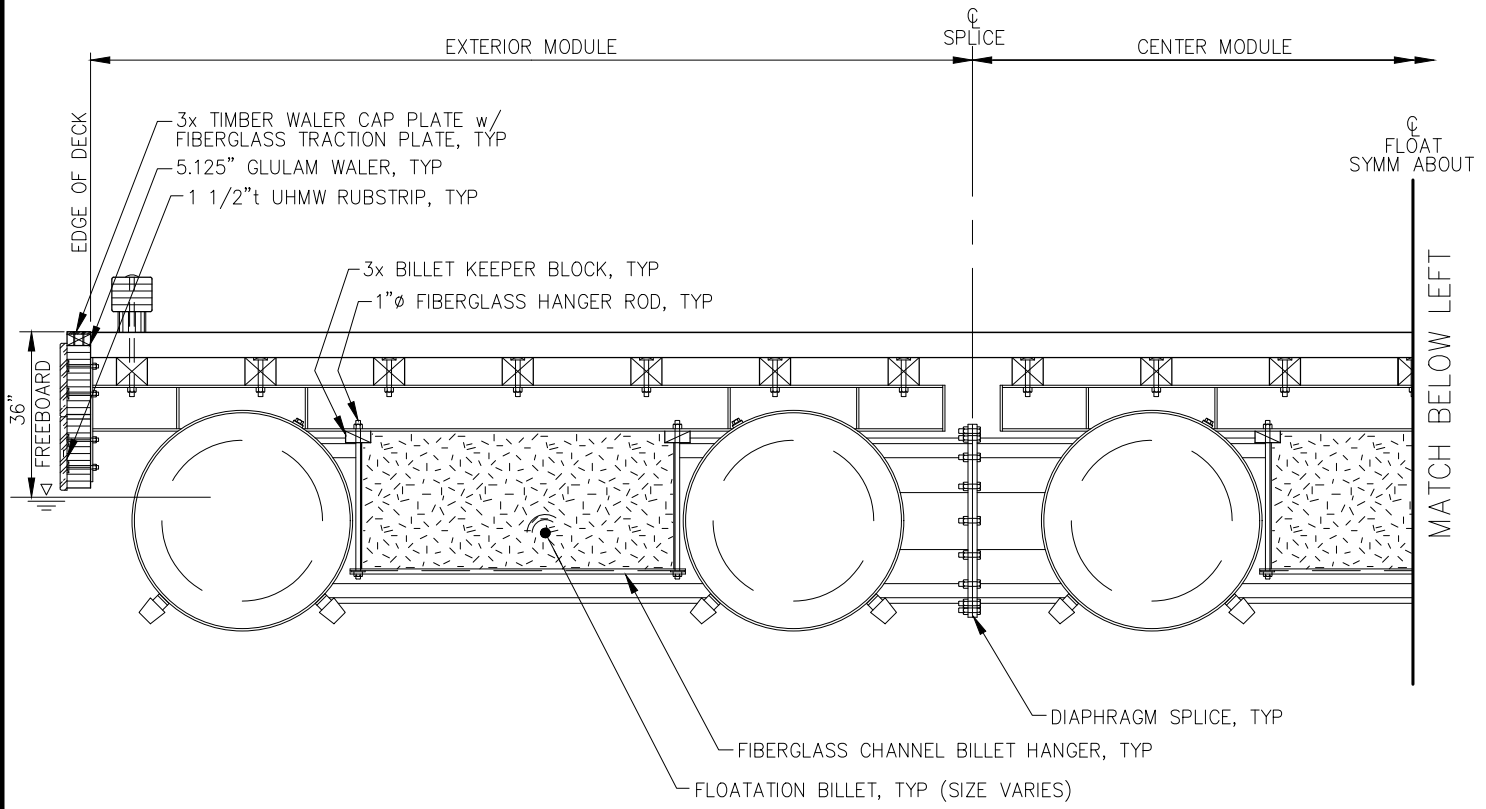
APPLICANT: CITY & BOROUGH OF JUNEAU, ALASKA
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 WATERWAY: GASTINEAU CHANNEL
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B
3 **TRANSFER BRIDGE TYPICAL SECTION**

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C
3 DRIVE DOWN FLOAT TYPICAL SECTION

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DRIVE DOWN FLOAT**

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 FILE NO:
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 PROPOSED ACTIVITY: DRIVE DOWN FLOAT
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 DATE: NOVEMBER 2025 SHEET 9 OF 10

DESIGN CRITERIA:
 DEAD LOAD: Weight of all materials of construction.
 LIVE LOAD: AASHTO HS20 (17th Edition, 2009)
 60 psf Uniform

Table 1. Fill in tidal waters

	Project Total	Below HTL (EL = 20.6')	Below MHW (EL = 15.3')	Below MLLW (EL = 0')
Footprint (Acres)	0.008	0.008	0	0
Concrete Sash Weights	1.5 CY	1.5 CY	1.5 CY	1.5 CY
Armor Rock	8 CY	8 CY	0 CY	0 CY
CIP Concrete Abutment	4 CY	4 CY	0 CY	0 CY

Table 2. Piles driven in tidal waters

	Construction Method	Project Total	Below HTL (EL = 20.6')	Below MHW (EL = 15.3')	Below MLLW (EL = 0')
24" Float Anchor Piles	Vibratory Installation	6	6	6	6
	Impact Installation*				
16" Dock Support Piles	Vibratory Installation	29	29	27	23
	Impact Installation*				
16" Bridge Abutment Support Piles	Vibratory Installation	5	5	5	5
	Impact Installation*				
16" Template Piles	Vibratory Installation & Removal	12	12	12	12
16" Float Support Piles	Vibratory Removal	3	3	3	3

*Vibratory hammers will be used whenever feasible for driving piles. Impact driving may be used to proof indicated piles.

Table 3. Project Element Quantities

Item	Dimensions	Surface Area (SF)
Dock Extension	60' x 70'	4,200
Dock Widening	16' x 112'	1,792
Transfer Bridge	17' x 140'	2,380
Drive Down Float	48' x 120'	5,760
2" HDPE Pipe	140'	24

Table 4. Project Demolition

Item	Dimensions	Surface Area (SF)
Gangway	5' x 70'	350
HDPE Pipe Pontoon Float	14' x 100'	1,400

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SHEET 10 OF 10