

MAINE BUREAU OF PARKS AND LANDS

PROJECT MANUAL

Appendix A, B, and C

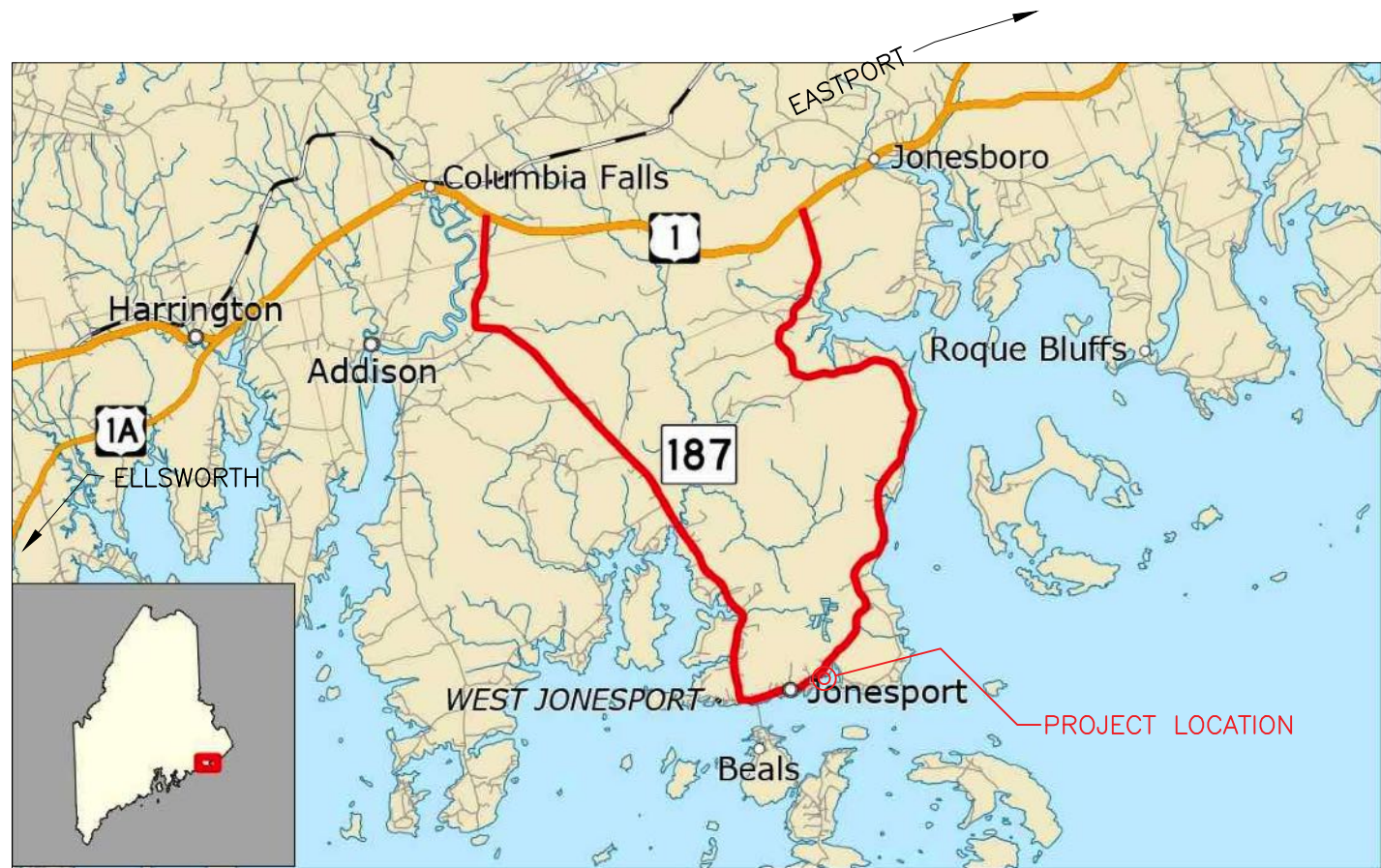
FLOAT PILE REPLACEMENT

Chandler Bay and St Croix River Boat Launch Facilities, Jonesport and Robbinston, Maine

BREM Project #3013

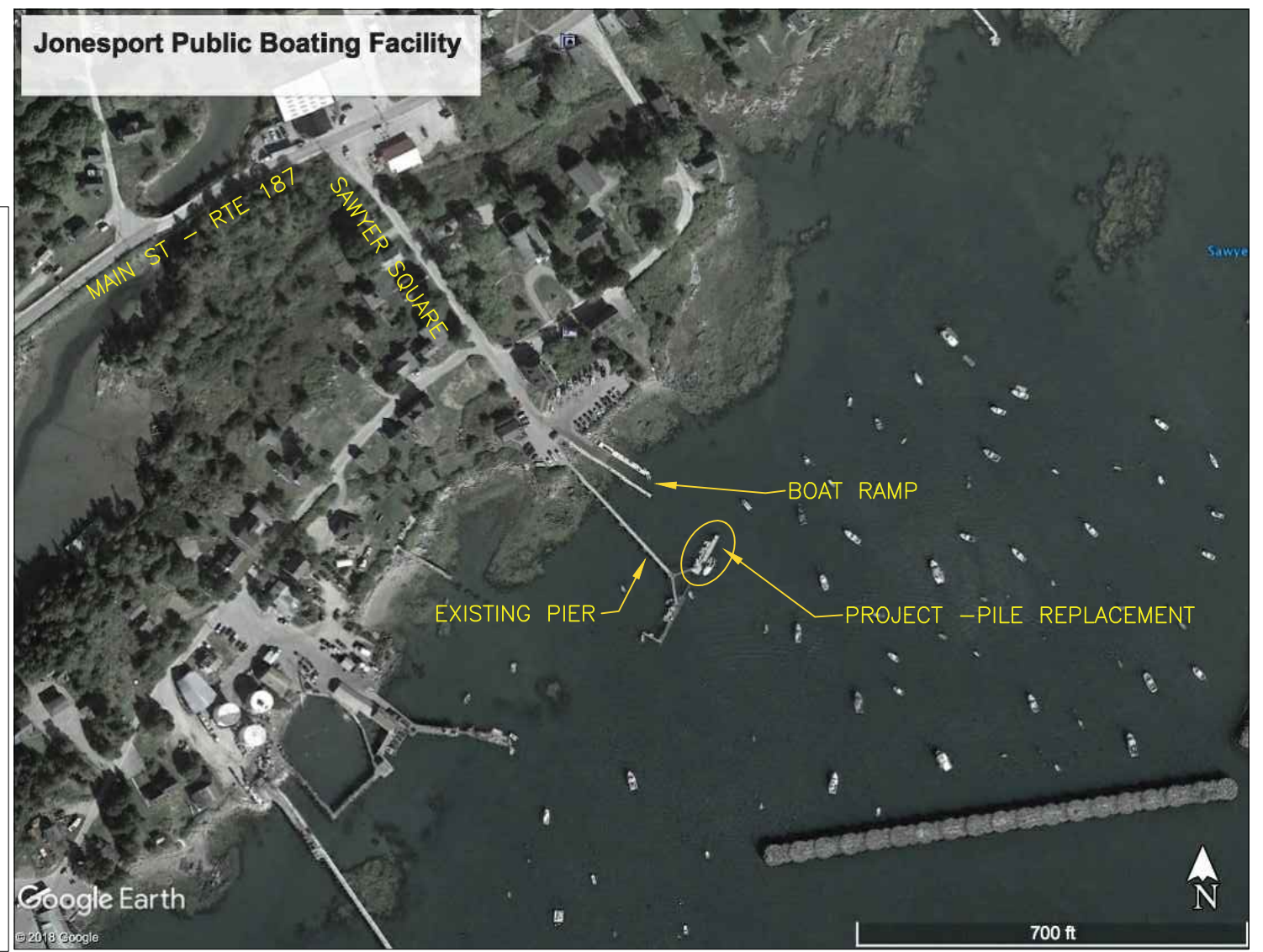
Issued for Bid - April 8, 2019

APPENDIX A	PLANS
Sheet J1	Jonesport Site Location Plan
Sheet J2	Jonesport Plan
Sheet J3	Jonesport Pile Details
Sheet R1	Robbinston Site Location Plan
Sheet R2	Robbinston Plan and Profile
Sheet R3	Robbinston Pile Details
APPENDIX B	Reference Documents for Robbinston
	Photos of Existing Site
	Record Drawings of Existing Site
APPENDIX C	Reference Documents for Jonesport
	Photos of Existing Site
	Record Drawings of Existing Site



Ref: Matte, Wikipedia.org

SITE LOCATION
JONESPORT, MAINE



SITE LOCATION
JONESPORT, MAINE



NO.	REVISION	DATE	DESIGNED BY STR	STATE OF MAINE BOATING FACILITIES PROGRAM
			DRAWN BY STR	
			BREM Project 3013	FLOAT PILE REPLACEMENT SITE LOCATION JONESPORT, MAINE
			DATE REVISED 3-4-2019	
			PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
				J-1 REV. 0

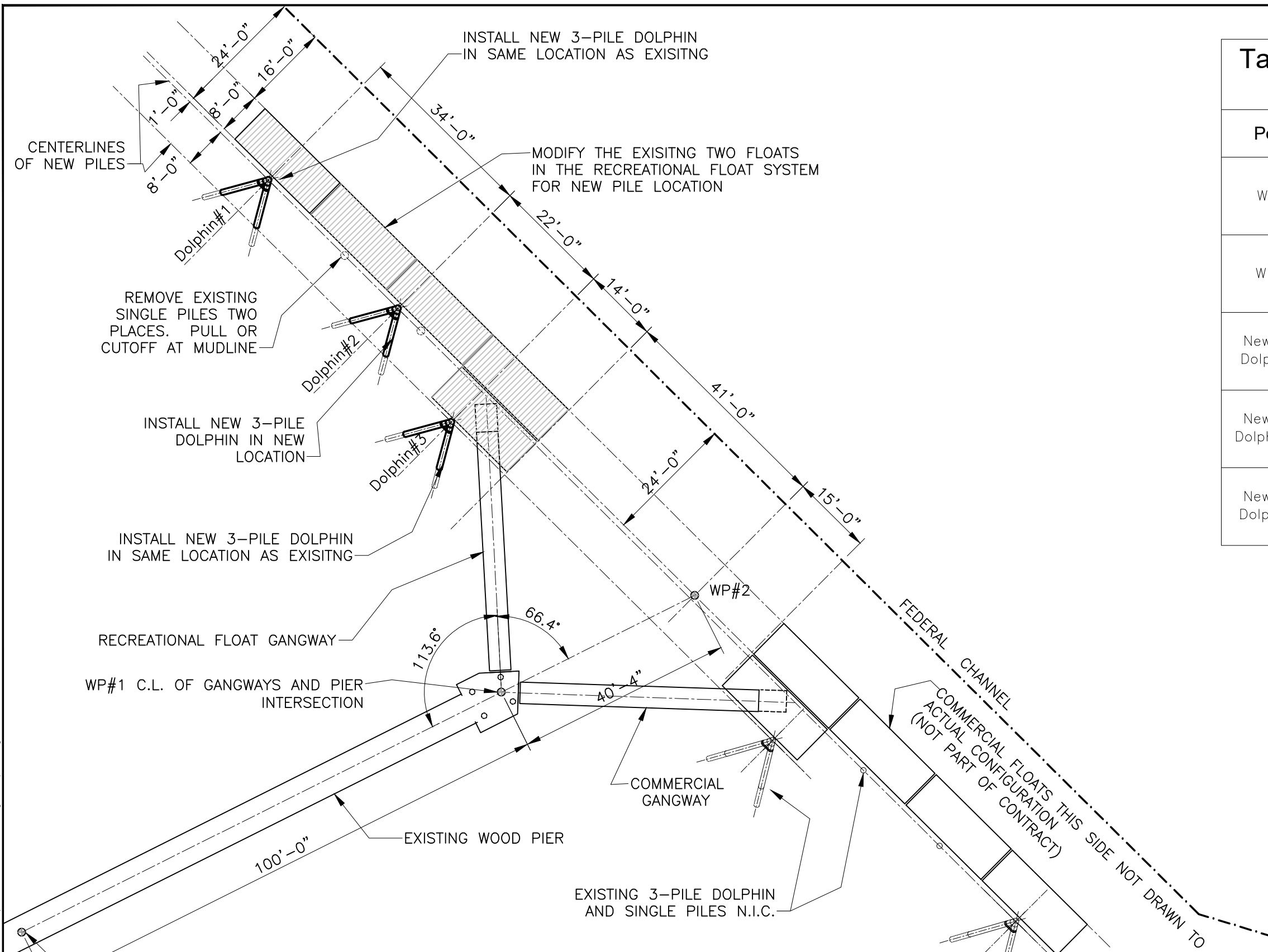
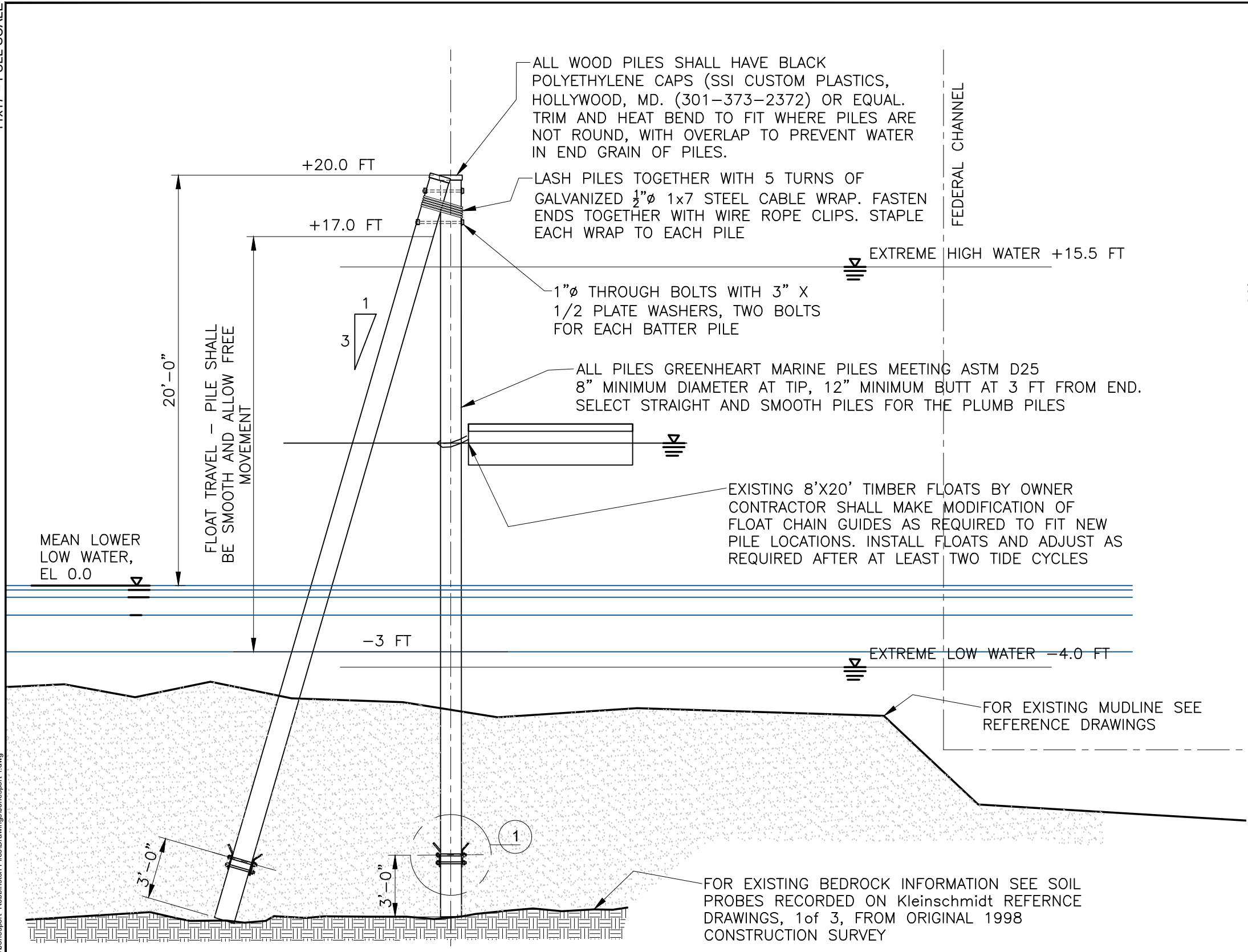


Table of Dimensions for Locating Piles

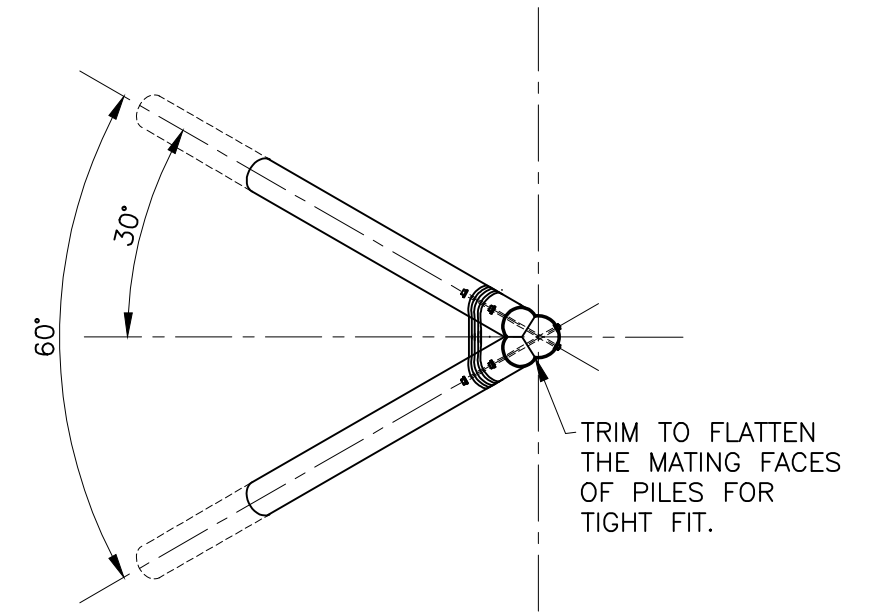
Point	Distance from WP#1	Distance from WP#3	
WP#1	-	100.00	Work Point on pier
WP#3	100.00	-	Work Point on Pier
New Pile Dolpin #1	105.04	147.58	Vertical pile centerline
New Pile Dolpin #2	74.14	135.77	Vertical pile centerline
New Pile Dolpin #3	51.26	124.31	Vertical pile centerline

1. All dimensions in feet.
2. Dimensions are to centerline of plumb pile in each dolphin.
3. If obstructions prevent pile as located, move dolphin along centerline parallel to float, up to 2 feet maximum. Notify Owner/Engineer.

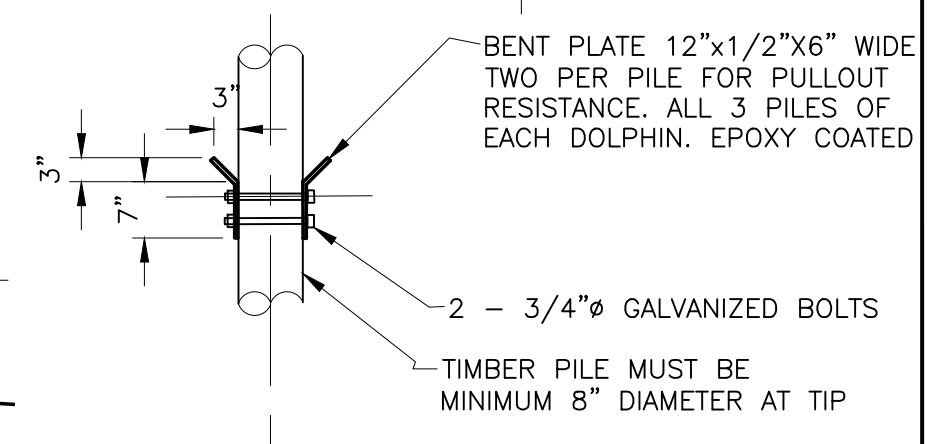
	NO.	REVISION	DATE	DESIGNED BY STR	STATE OF MAINE BOATING FACILITIES PROGRAM
				DRAWN BY STR	
					BREM Project 3013 DATE REVISED 3-4-2019
				Pinnacle Hill Engineering 33 Pinnacle Road Canaan, ME 04924 PinnacleHillEngineering@gmail.com	J-2 REV. 0



DOLPHIN ELEVATION VIEW



DOLPHIN PLAN VIEW



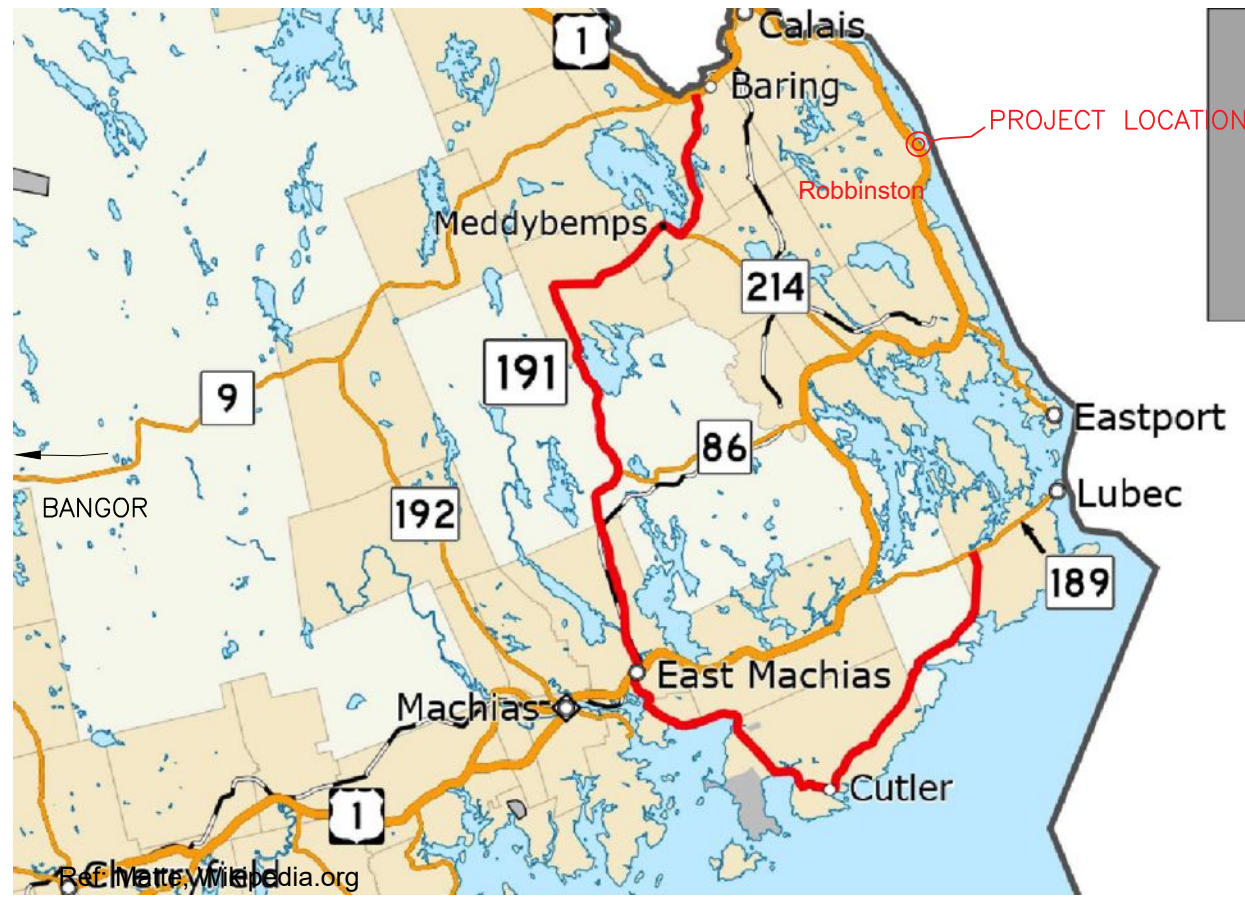
DETAIL 1



NO.	REVISION	DATE

DESIGNED BY STR	STATE OF MAINE BOATING FACILITIES PROGRAM
DRAWN BY STR	
BREM Project 3013	FLOAT PILE REPLACEMENT DETAIL CHANDLER BAY, JONESPORT, MAINE
DATE REVISED 3-10-2019	
Pinnacle Hill Engineering 33 Pinnacle Road Canaan, ME 04924 PinnacleHillEngineering@gmail.com	J-3 REV. 0

1:1 = FULL SCALE



SITE LOCATION
Robbinston, MAINE

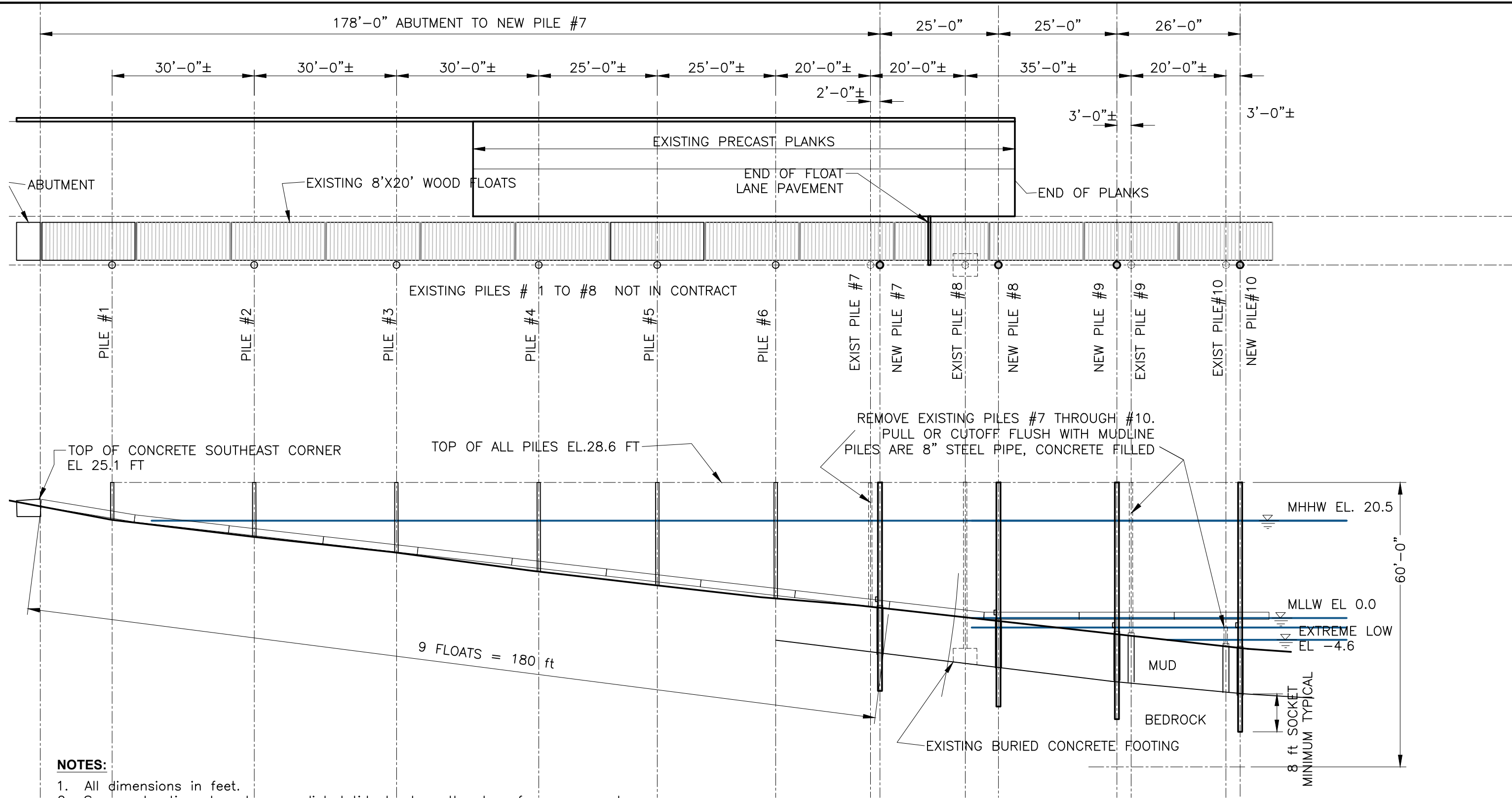


SITE LOCATION
Robbinston, MAINE

w:\pinnacle hill\active\loneport - Robbinston Files\Drawings\Robbinston 1.dwg
AUTOCAD 2011



NO.	REVISION	DATE	DESIGNED BY STR	STATE OF MAINE BOATING FACILITIES PROGRAM
			DRAWN BY STR	
			BREM Project 3013	ROBBINSTON FLOAT PILE REPLACEMENT SITE LOCATION
			DATE REVISED 3-4-2019	
			PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924
				R-1 REV. 0



NOTES:

1. All dimensions in feet.
2. Survey elevations based on predicted tide level on the day of measurements. The Control elevation is that the top of pile of the new piles shall match the top of existing piles #1 through #3.
3. Dimensions are to centerline of plumb piles.
4. If obstructions prevent pile as located, move pile along centerline parallel to float, up to 2 feet maximum. Notify Owner/Engineer.
5. Existing 8'x20' timber floats are by Owner. Contractor shall relocate float chain guides on four floats as required to fit new pile locations. Install floats and adjust guides as required after at least two tide cycles
6. The location of Pile #7 may need to be adjusted if too close to old pile, but must be located to avoid being at the float hinge joint.

	NO.	REVISION	DATE	DESIGNED BY STR	STATE OF MAINE BOATING FACILITIES PROGRAM	
				DRAWN BY STR		
					BREM Project 3013 DATE REVISED 3-10-2019	ROBBINSONT FLOAT PILE REPLACEMENT PLAN AND PROFILE
				PINNACLE HILL ENGINEERING PinnacleHillEngineering@gmail.com	33 Pinnacle Road Canaan, ME 04924	R2 REV. 1

1:1/1" - FULL SCALE

W:\PROJECTS\31101\31101-000\31101-000-000\31101-000-000-000.dwg
REVISED: 03/10/2019

WELD $\frac{3}{8}$ " CAP PLATE OVER TOP OF PILE
SEAL WELD ALL AROUND

CUTOFF TOP OF NEW PILES TO
MATCH EXISTING PILES
EL +28.6

6" X 12" DIVERS PLATE ZINC
ANODES, EACH SIDE
SEE SPECS

MEAN HIGHER HIGH WATER +20.52 FT

SEE PLAN FOR LOCATION

NEW PILE 10" SCHEDULE 80 PIPE
10.75" OD X 0.594 WALL

TEMPORARY CAISSON WAS USED ON PREVIOUS
PILE INSTALLATION, REMOVE OR CUTOFF

WELDED PLATE AND ZINC ANODE- SEE DETAIL
MOUNT ON UPHILL SIDE OF PILE
PARALLEL TO RAMP

CUT OFF EXISTING PILES AT
OR BELOW MUDLINE

FILL DRILL HOLE AND CASING WITH CRUSHED
STONE INSIDE PILE AND AROUND OUTSIDE OF
PILE BEFORE PULLING CASING. FILL UP TO OR
ABOVE MUDLINE

MEAN LOWER LOW WATER,
EL 0.0

FOR EXISTING MUDLINE SEE
PLAN AND REFERENCE DRAWINGS

FOR AVAILABLE EXISTING BEDROCK
INFORMATION SEE REFERENCE
DRAWINGS,

EXTREME LOW WATER -4.6 FT

CRUSHED STONE FILL

8'-0" DRILLED INTO BEDROCK

SOIL LAYER

BEDROCK

EXISTING PILE IS GROUTED
AND CONCRETE FILLED, WILL
BE LEFT IN PLACE

TYPICAL PILE
REPLACEMENT
DETAIL

LOCATE AT -2'-0"
MLLW DATUM

9/16" HOLES

PLAIN STEEL PLATE FIELD WELDED TO
PIPE PILE WALL.
GRIND EPOXY FROM SURFACE OF PIPE 1"
WIDE. FIT PLATE AND SEAL WELD ALL
AROUND. MIN 1/8" FILLET
MOUNT TWO ZINCS, ONE ZINC ON EACH
SIDE WITH $\frac{1}{2}$ " TYPE 316 SS THROUGH
BOLTS.

ZINC ANODE DETAIL



NO.	REVISION	DATE

DESIGNED BY
STR
DRAWN BY
STR
BREM Project 3013
DATE REVISED
3-10-2019

STATE OF MAINE
BOATING FACILITIES PROGRAM
ROBBINSON FLOAT PILE REPLACEMENT
TYPICAL DETAILS

PINNACLE HILL ENGINEERING
33 Pinnacle Road
Canaan, ME 04924
PinnacleHillEngineering@gmail.com

R-3
REV. 0



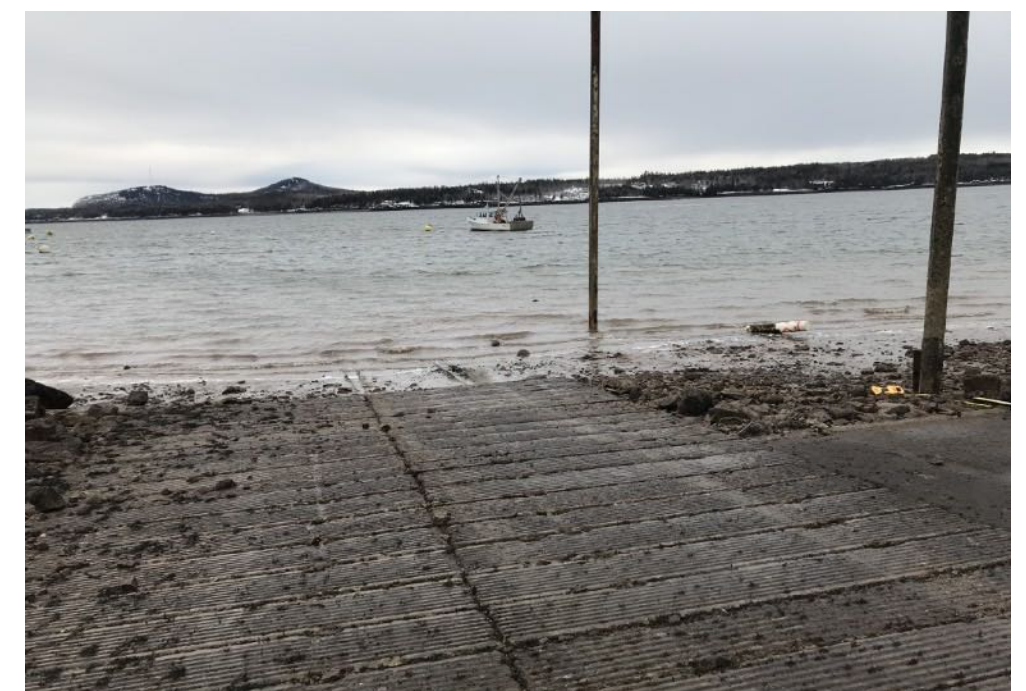
General views from 2007 and 2019. Floats are not in place in the photos.



Typical 8'x20' float with chain guide for pile.



End of ramp planks



Pile # 8 is on the right, Pile #9 is past the end of plank ramp. The stub tip of Pile #10 just showing to left of Pile #9



End of paved float laydown area. Pile #7 is first pile on the left



Pile #8



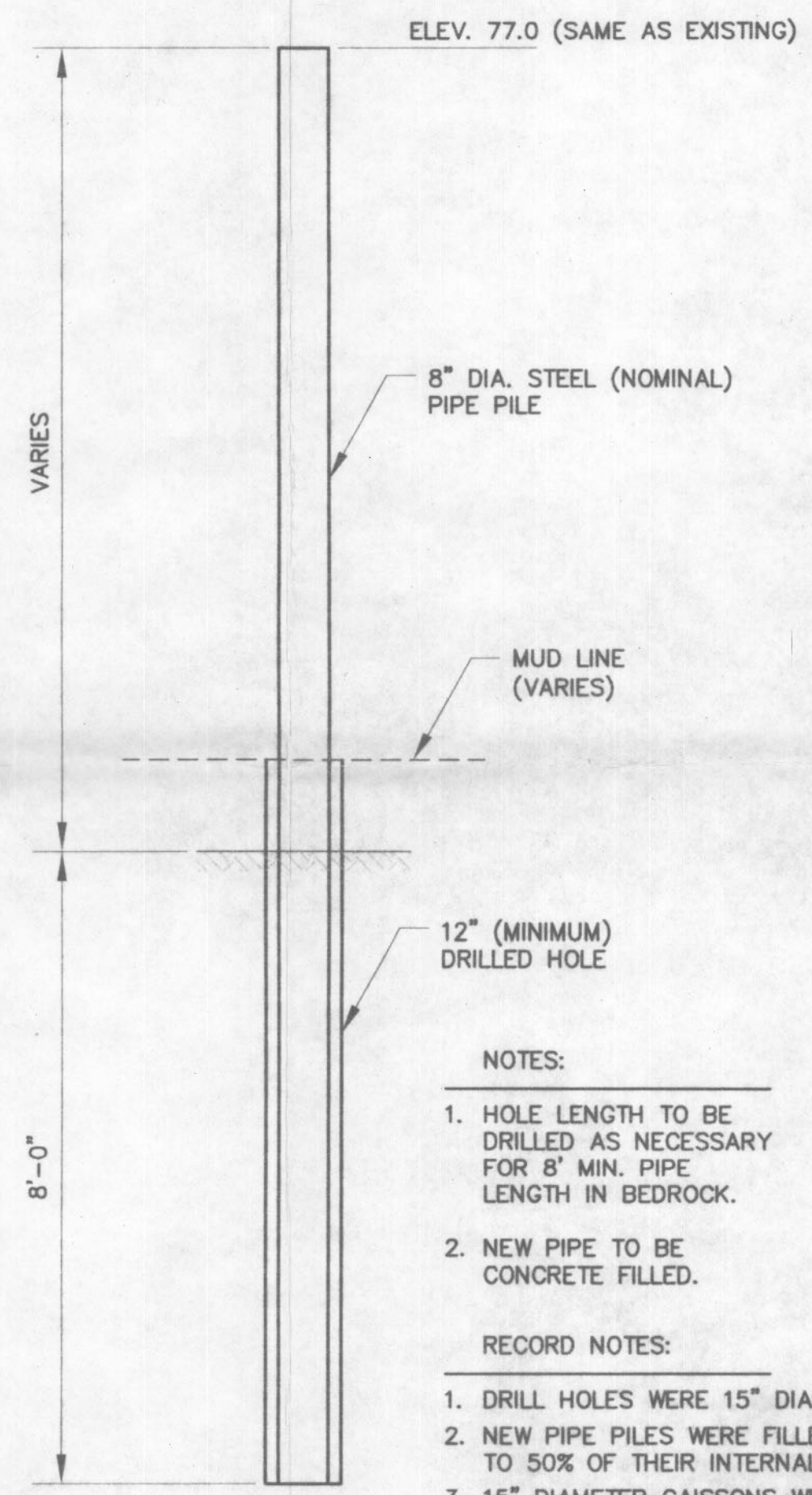
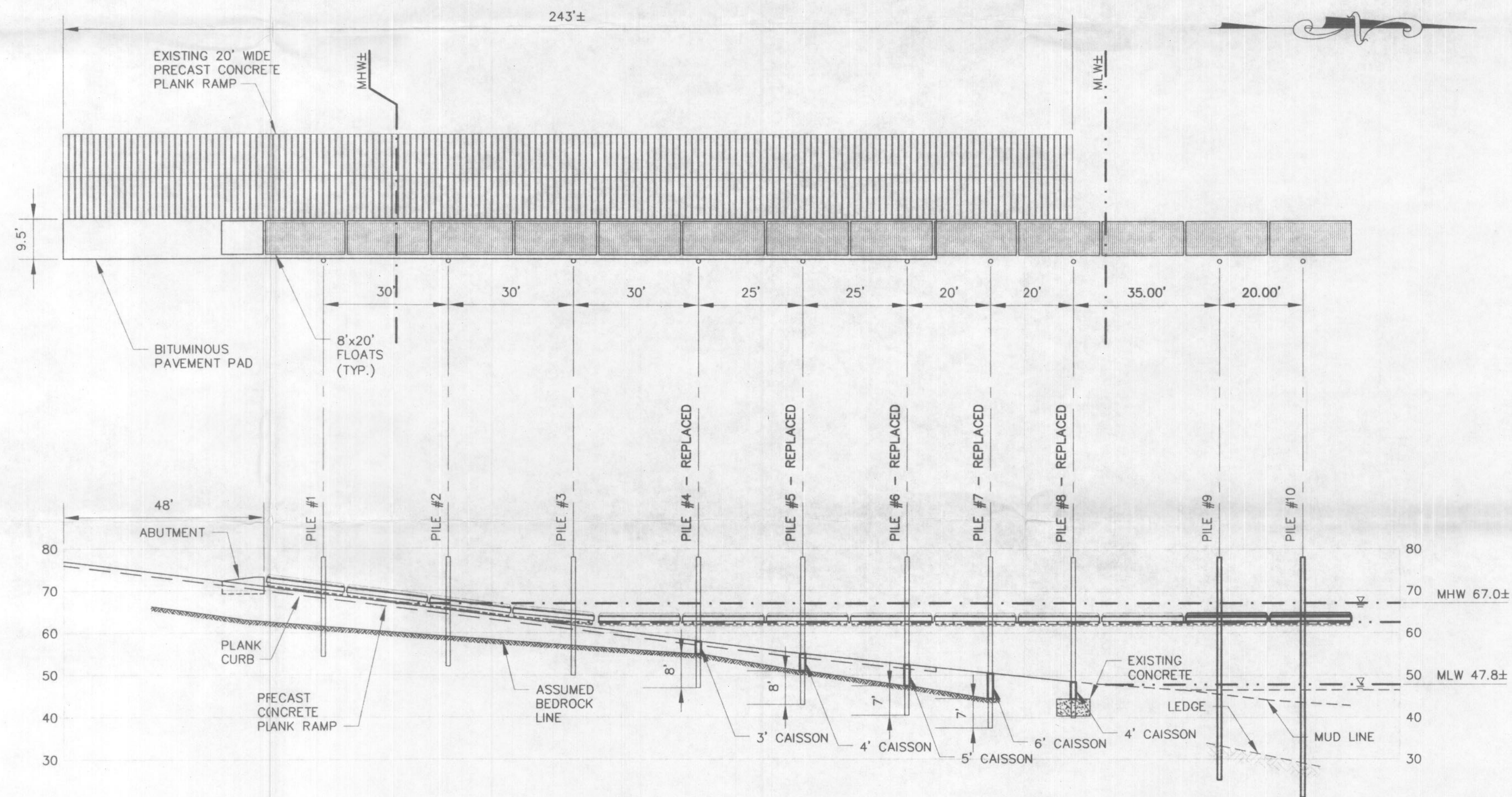
Pile #9 and end of ramp



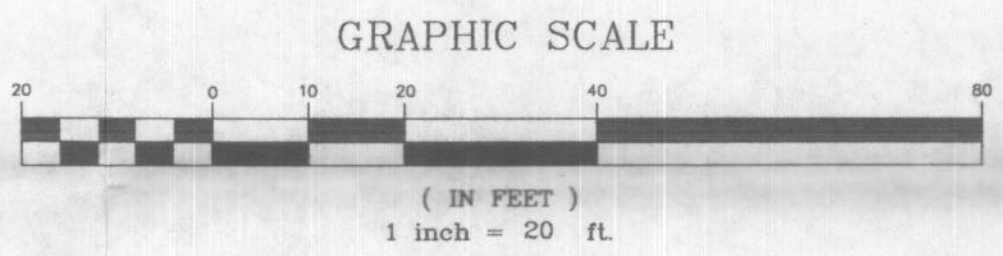
Pile #8



Pile #10 remaining stub, photo taken at low drain tide



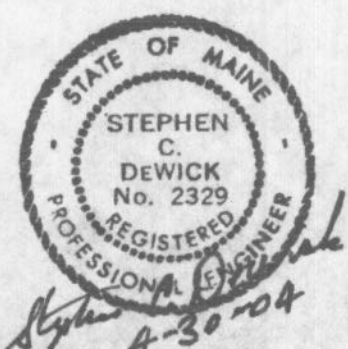
- NOTES:**
- HOLE LENGTH TO BE DRILLED AS NECESSARY FOR 8" MIN. PIPE LENGTH IN BEDROCK.
 - NEW PIPE TO BE CONCRETE FILLED.
- RECORD NOTES:**
- DRILL HOLES WERE 15" DIAMETER.
 - NEW PIPE PILES WERE FILLED WITH CONCRETE TO 50% OF THEIR INTERNAL VOLUME.
 - 15" DIAMETER CAISSONS WERE LEFT IN PLACE AND FILLED WITH GROUT.

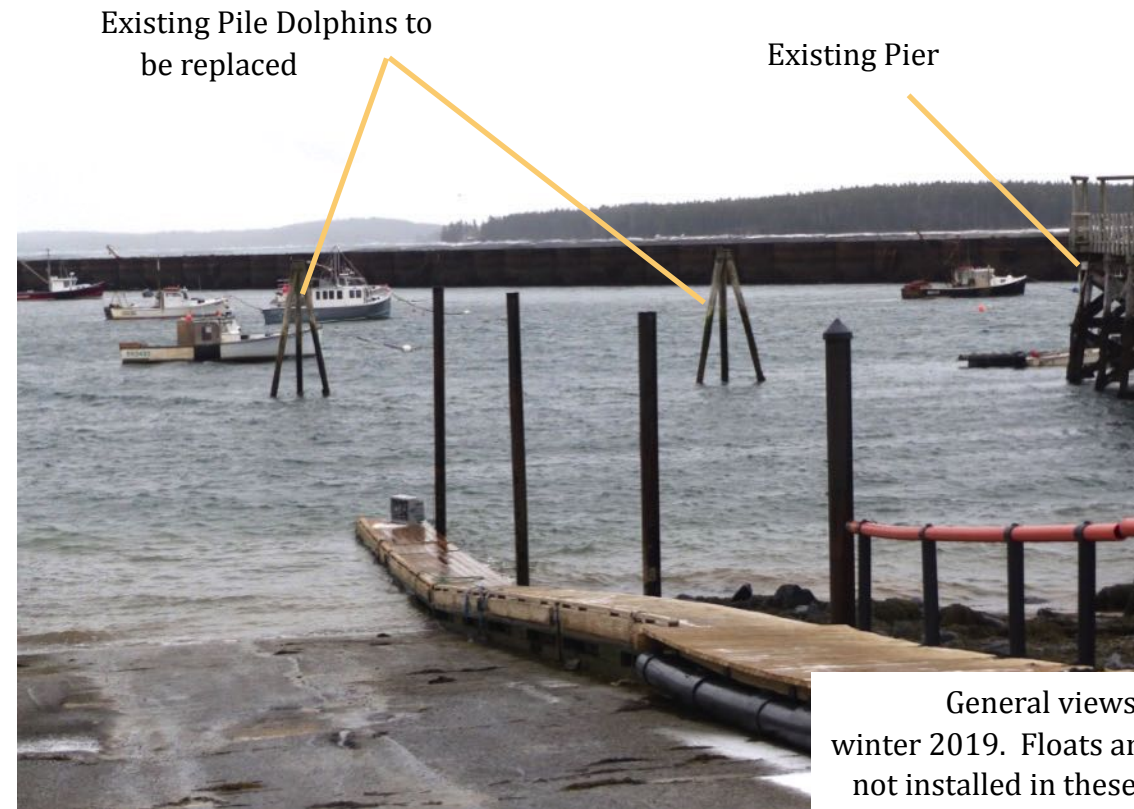


RECORD DRAWING

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF THE INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

SIGNED:	SIGNED:					DESIGNED BY: SCD	Pine Tree Engineering 53 Front Street Bath, Maine 04530 Tel: (207) 443-1508 Fax: (207) 442-7029 Civil/Environmental Engineering • Surveying	CLIENT STATE OF MAINE DEPARTMENT OF CONSERVATION BOATING FACILITIES DIVISION 22 STATE HOUSE STATION AUGUSTA, MAINE 04333	PROJECT	SCALE	
DATE:	DATE:	REV	DATE	STATUS	BY	CHKD			APPD	PILE REPLACEMENT PROJECT ROBBINSON, MAINE	1" = 20'
BUREAU OF PARKS & LANDS	BUREAU OF GENERAL SERVICES	1	5-13-04	REPLACE PILES 4,5,6,7 & 8 ADENDUM #1	MSD	CJM			SCD	TITLE	PROJECT NO.
		2	7-27-04	RECORD DRAWING	MSD	CJM			SCD	ST. CROIX BOAT FACILITY SITE PLAN & PROFILE	04014
									DRAWING NO.	REV.	
									04014-RBNSTN.DWG	1 of 1	
									SHT.	2	

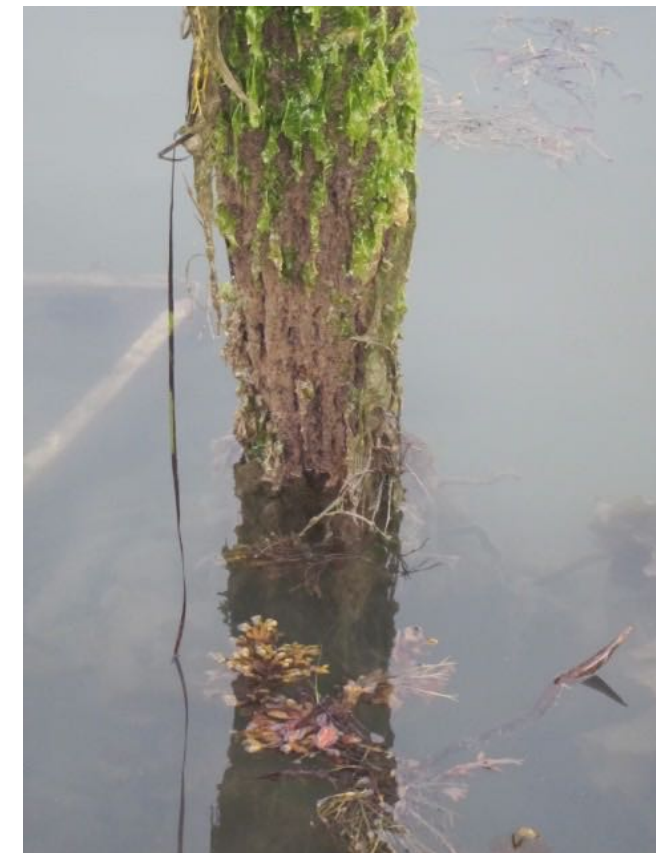
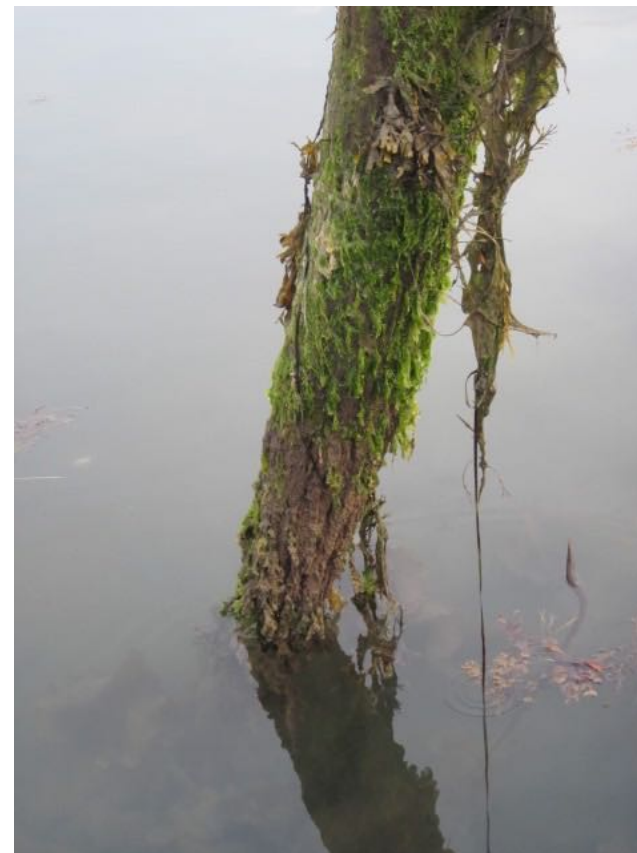




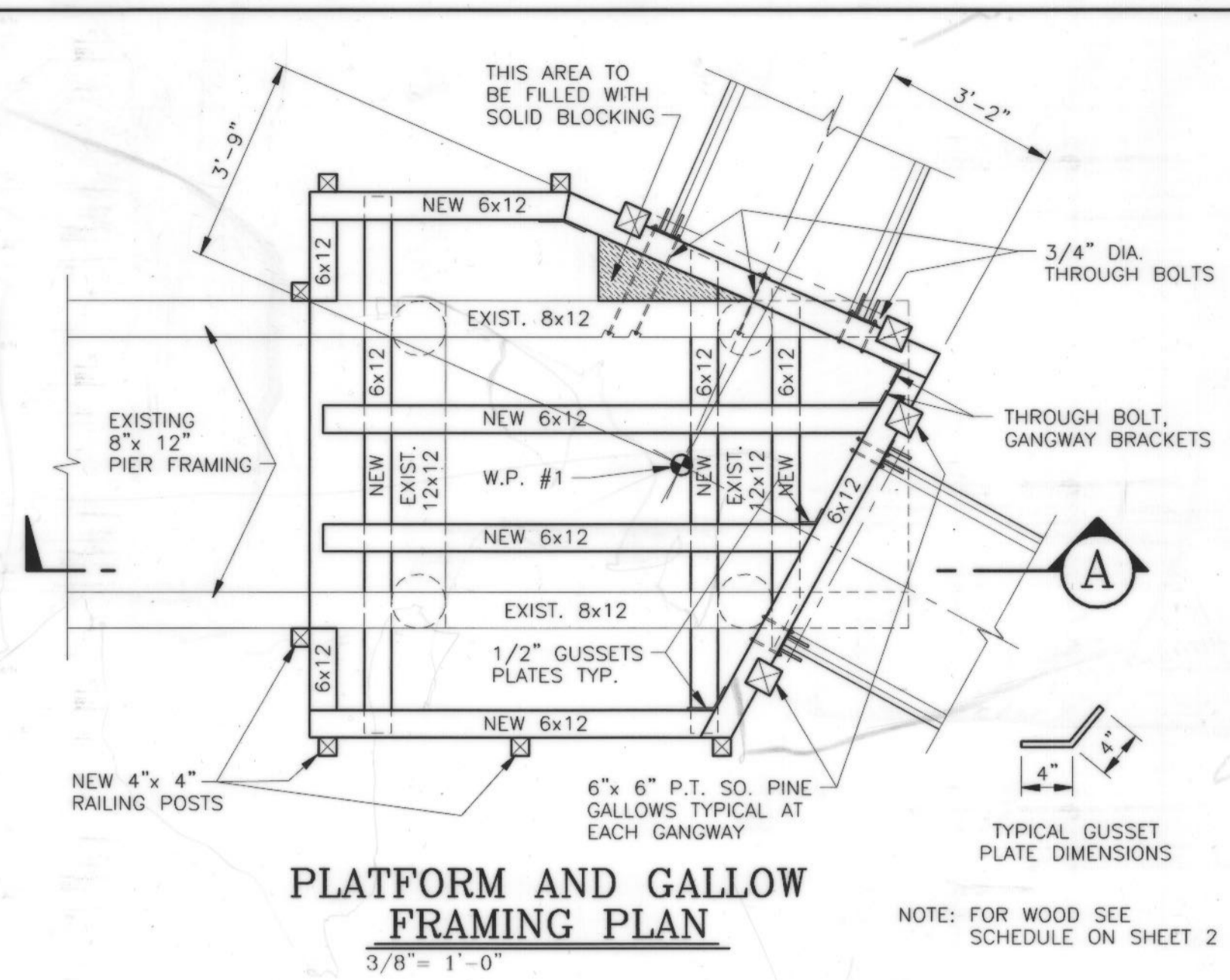
General views winter 2019. Floats are not installed in these photos. The two single piles between the dolphins are missing.



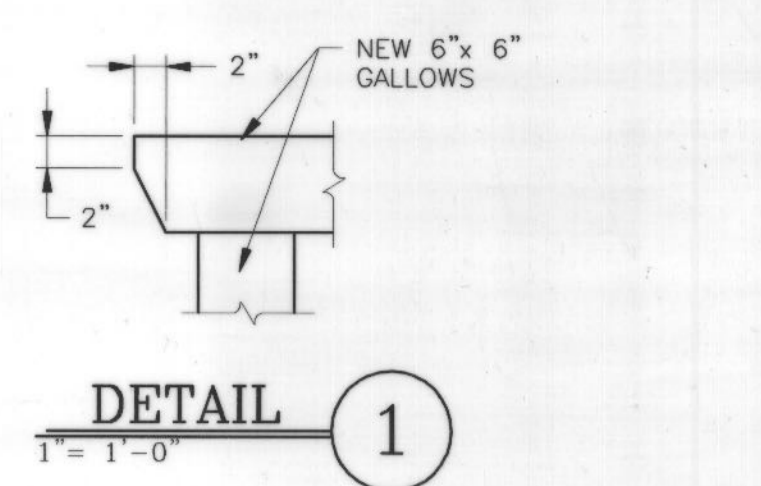
Typical 8'x20' float with chain guide for pile. This photo from Robbinston is the same type of float



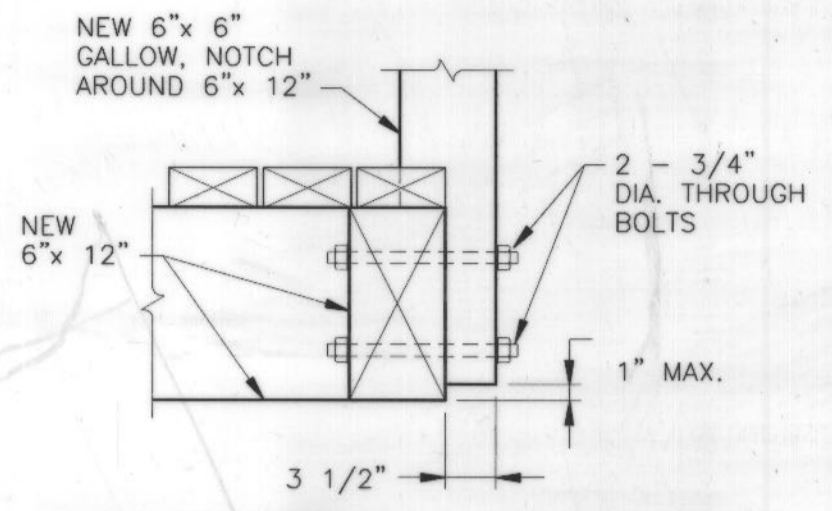
Deterioration of existing piles



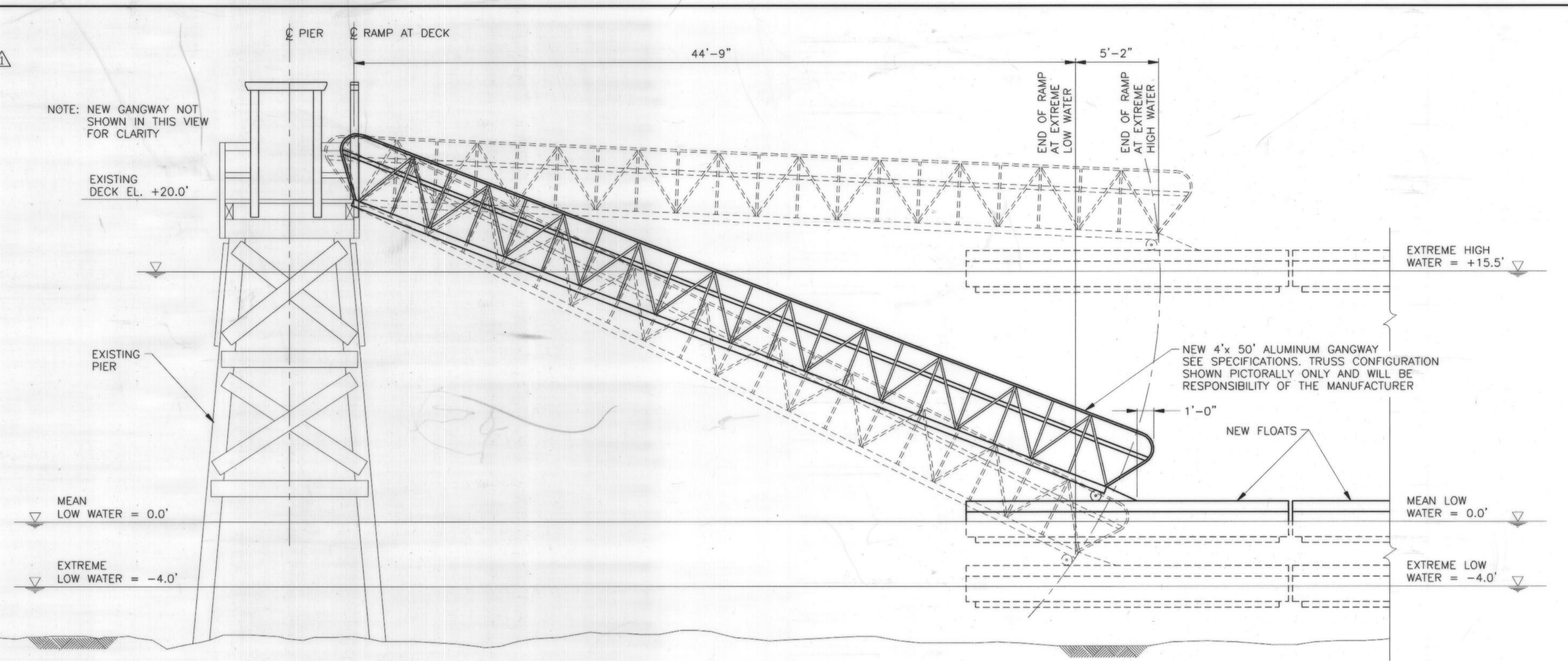
PLATFORM AND GANGWAY FRAMING PLAN
3/8" = 1'-0"



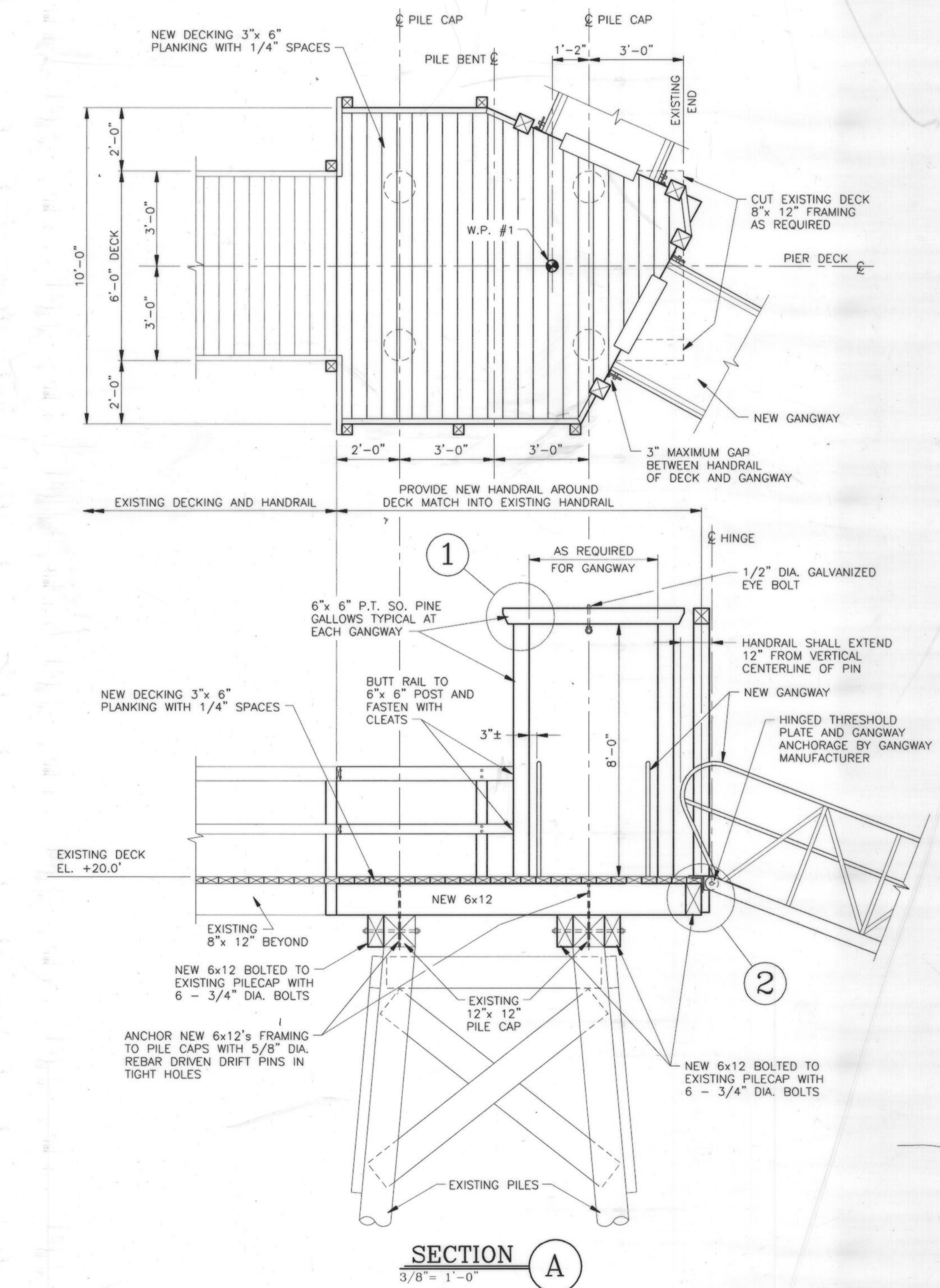
DETAIL 1
1" = 1'-0"



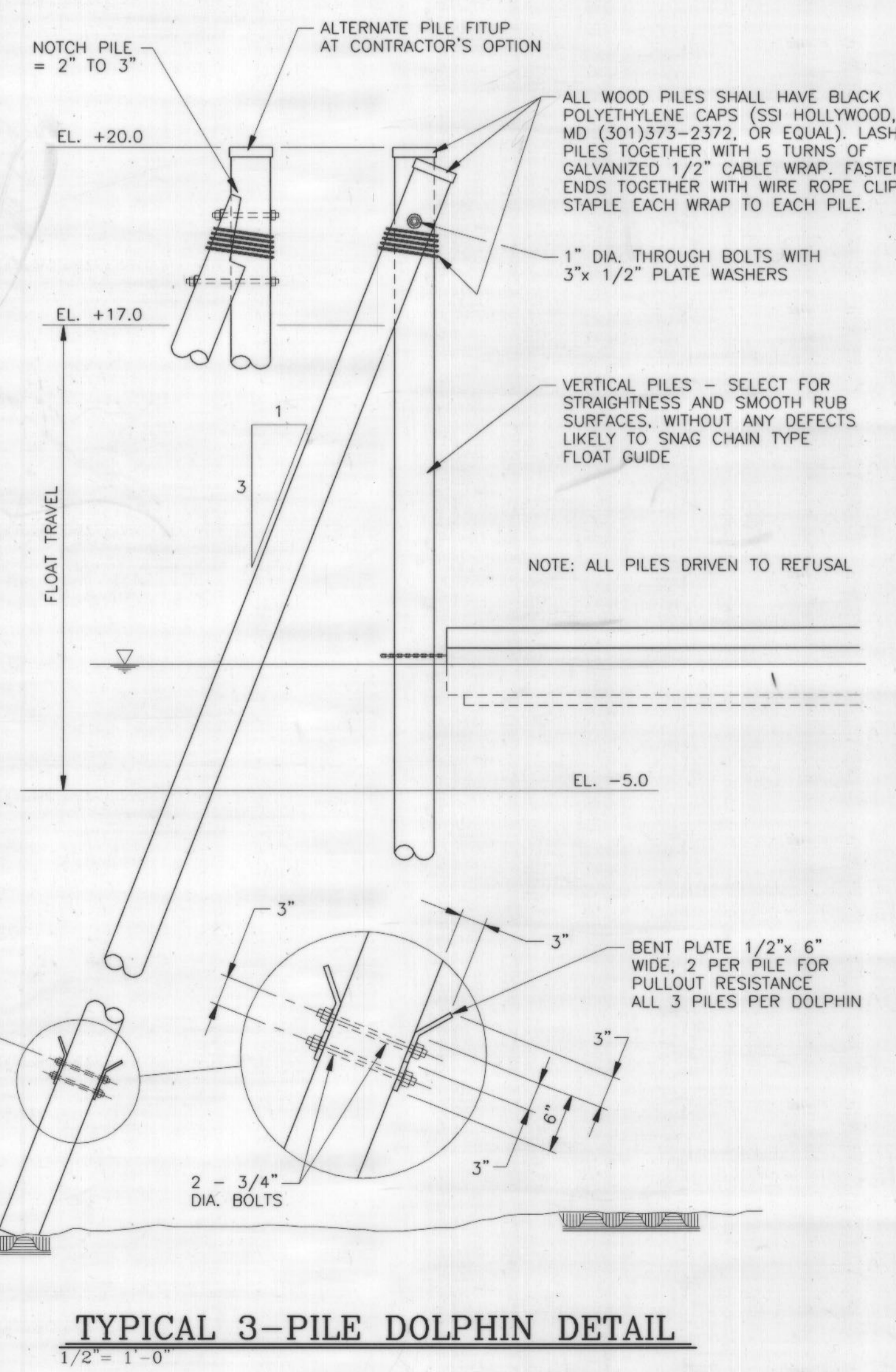
DETAIL 2
1" = 1'-0"



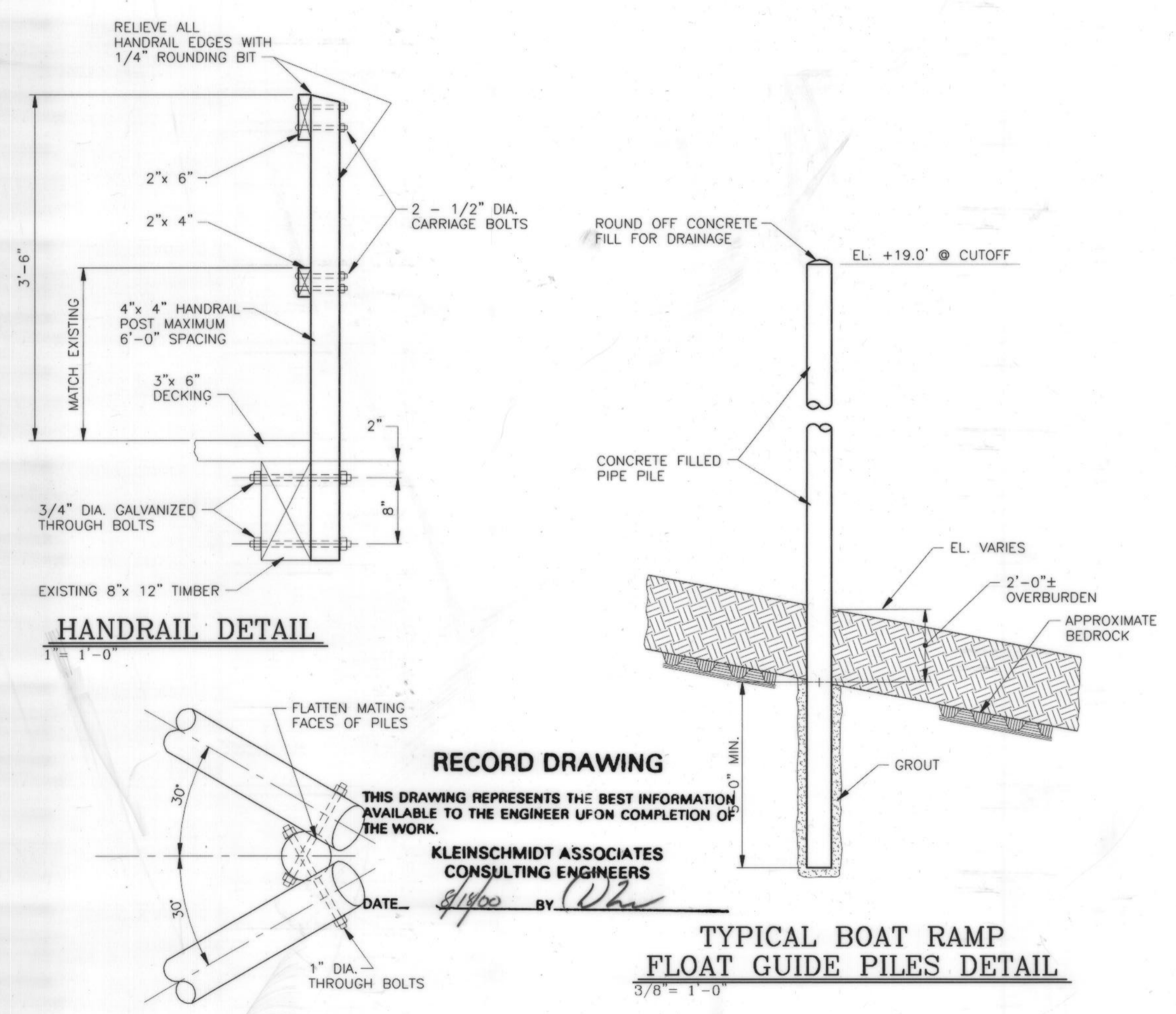
ELEVATION VIEW
1" = 5'



SECTION A
3/8" = 1'-0"



TYPICAL 3-PILE DOLPHIN DETAIL
1/2" = 1'-0"



HANDRAIL DETAIL
1" = 1'-0"

TYPICAL BOAT RAMP FLOAT GUIDE PILES DETAIL
3/8" = 1'-0"

GUIDE DETAIL - TOP VIEW
3/4" = 1'-0"

RECORD DRAWING
THIS DRAWING REPRESENTS THE BEST INFORMATION AVAILABLE TO THE ENGINEER UPON COMPLETION OF THE WORK.

KLEINSCHMIDT ASSOCIATES CONSULTING ENGINEERS

DATE: 8/1/00 BY: [Signature]

TOWN OF JONESPORT JONESPORT, MAINE	
JONESPORT BOAT FACILITY	
GANGWAY AND PILE DETAILS	
8/17/00 STR RECORD DRAWING 7-29-98 STR RELEASED FOR CONSTRUCTION 7-29-98 STR ADDED POST FRAMING PLAN 6-16-98 STR ISSUED FOR BID Date Chkd. Revision Drawn by: HWF Date: 5-29-98 Designed by: STR Date: 5-29-98 Checked by: _____ Date: _____ Scale: AS SHOWN	SHEET NO. 3 of 3 Kleinschmidt Associates Consulting Engineers Pittsfield, Maine 348-030-003