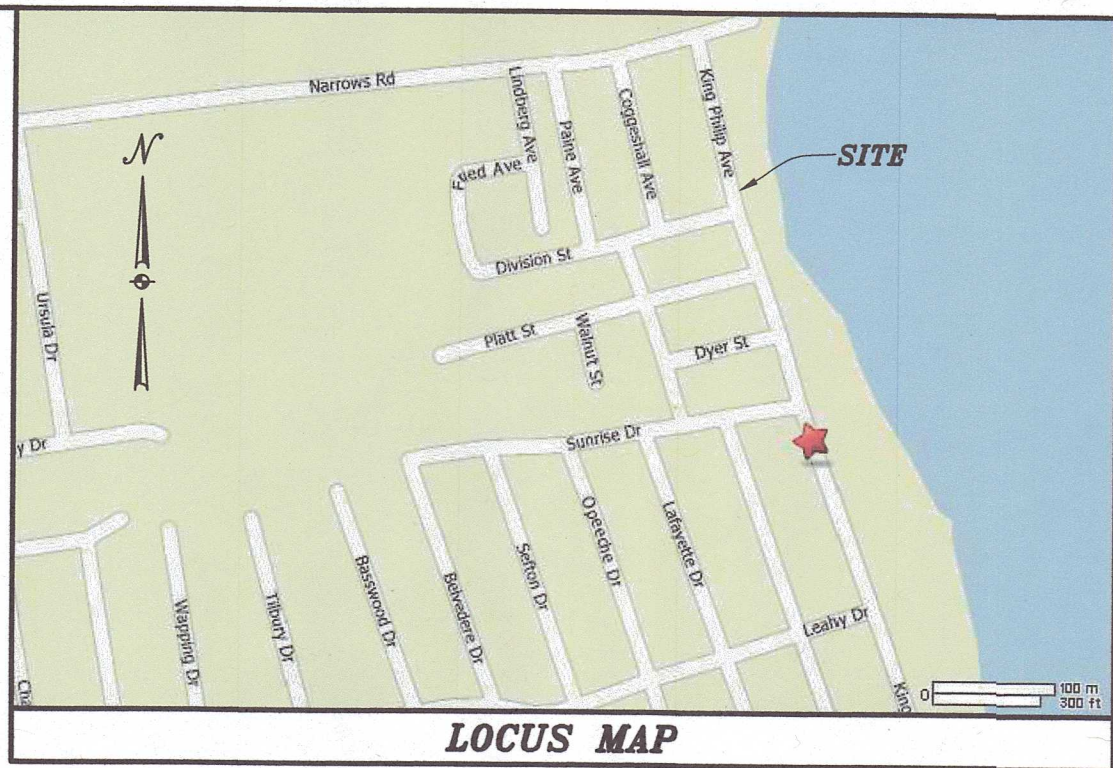
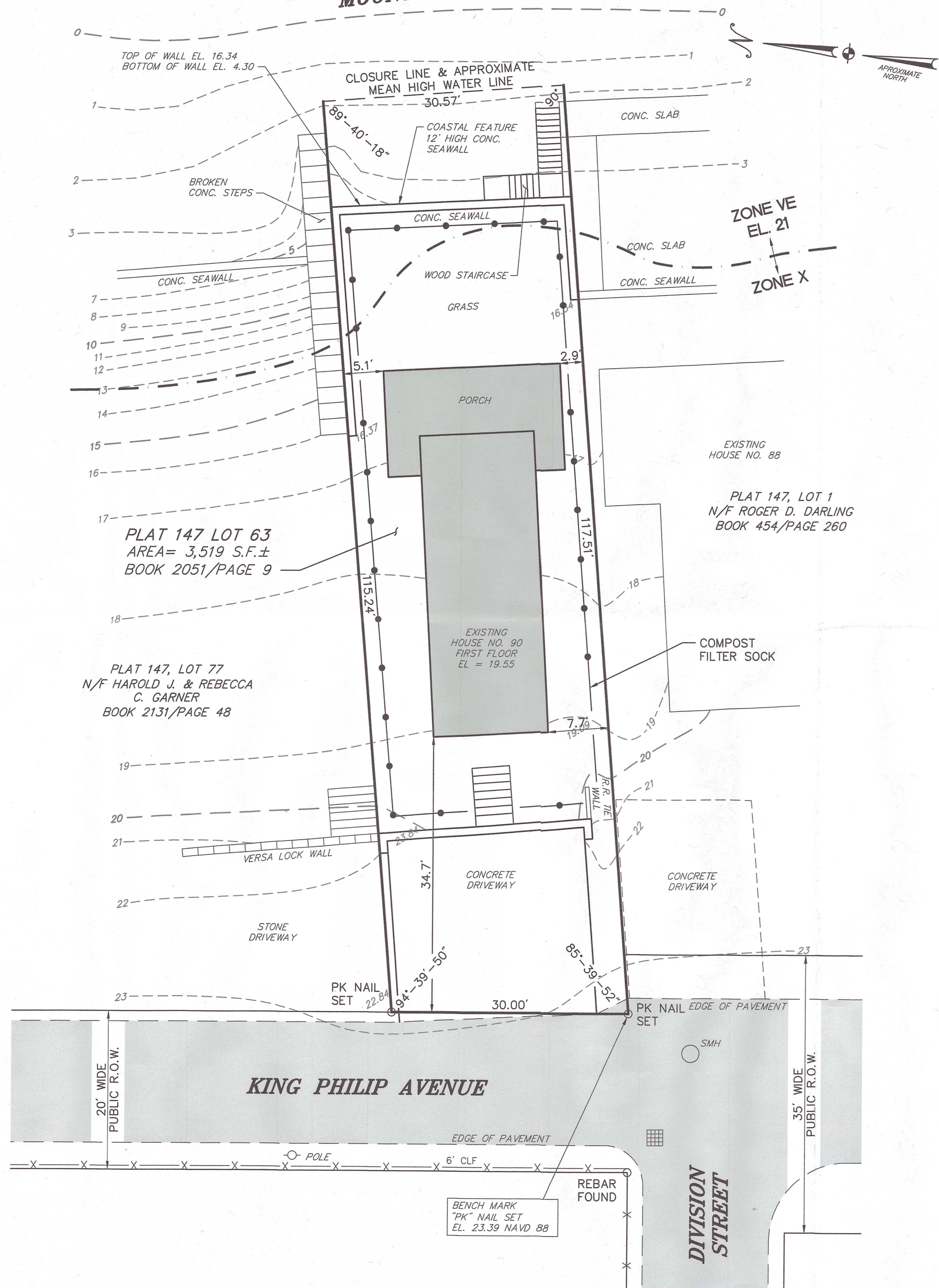


# MOUNT HOPE BAY



**NOTES:**

1. REFERENCE: RECORD PLAT CARD PLAT BOOK A/PAGE 26.
  2. PROPOSING TO ADD A SECOND FLOOR ADDITION WITH NO INCREASE IN IMPERVIOUS COVERAGE AND NO INCREASE IN STORMWATER RUNOFF.
  3. SITE IS PARTIALLY LOCATED IN ZONE "VE", EL 21 AS SHOWN ON THIS PLAN AND PER FIRM MAP NO. 44001C0012H EFFECTIVE 7-7-2014.
  4. ZONING: R-10  
 MINIMUM FRONT YARD = 30'  
 MINIMUM SIDE YARD = 15'  
 MINIMUM REAR YARD = 30'  
 MAXIMUM LOT COVERAGE = 25%  
 EXISTING BUILDING COVERAGE = 22%
  5. UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATELY LOCATED, MUST CONTACT DIG-SAFE AT 1-888-DIG-SAFE BEFORE THE START OF CONSTRUCTION.
  6. THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE STATE OF RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:  
 COMPREHENSIVE BOUNDARY SURVEY- CLASS I
- THE PURPOSE FOR CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THIS PLAN IS AS FOLLOWS:  
 BOUNDARY SURVEY & SITE PLAN



**MOHAMED J. FREIJ**  
 No. 5784  
 12-13-21  
 PROFESSIONAL ENGINEER

**MOHAMED J. FREIJ**  
 No. 1898  
 12-13-21  
 PROFESSIONAL LAND SURVEYOR

BY MJF DATE 12-13-21  
 MOHAMED J. FREIJ PLS No. 1898 C.O.A. NO. A263  
 REGISTERED PROFESSIONAL LAND SURVEYOR

<b>BOUNDARY SURVEY &amp; SITE PLAN</b>		PROJECT NO.
PLAT 147, LOT 63		SCALE
90 KING PHILIP AVENUE BRISTOL, RI 02809		1" = 20'
OWNER/APPLICANT:		DATE
<b>ALYSSA MERKLE &amp; TIMOTHY DESCHENES</b>		DECEMBER 13, 2021
90 KING PHILIP AVENUE BRISTOL, RI 02809		DRAWN BY
PREPARED BY		RMM
<b>MJF ENGINEERING ASSOCIATES</b>		CHECKED BY
326 SOWAMS ROAD BARRINGTON, R.I. 02806		MJF
TEL. 401-241-5153 OR 401-247-2003		FILENAME
EMAIL LANDSURVEYRI@AOL.COM		90 KING PHILIP AVE.DWG
1 of 1 SHTS		

**GENERAL SPECIFICATIONS:**

IN THE EVENT THAT ANY PILE PENETRATION CANNOT BE ATTAINED THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER. FOR ANY LOCATION WHERE PILE DEPTH CAN NOT BE ACHIEVED THE CONTRACTOR SHALL RECORD THOSE LOCATIONS AND SUBMIT RECORDS TO THE DESIGN ENGINEER.

ALL WOOD PILING SHALL BE 12" DIAMETER SOUTHERN PINE WITH A MINIMUM TIP DIAMETER OF 8". MINIMUM PILE DIAMETER AT MUDLINE SHALL BE 10". PRESSURE TREATMENT SHALL BE 2.5 LB/CF OF CCA. PILES SHALL BE DRIVEN TO DEPTHS AS INDICATED ON THE PLAN. PILES MAY BE DRIVEN USING A VIBRATORY HAMMER AS LONG AS THE MINIMUM PILE PENETRATION CAN BE ATTAINED.

ALL OTHER STRUCTURAL MEMBERS SHALL BE SOUTHERN PINE OR EQUIVALENT. MINIMUM TREATMENT FOR CROSS BRACING SHALL BE 2.5 LB/CF OF CCA. DIAGONAL BRACING SHALL NOT BE CUT BELOW THE MHW LINE. ALL CUTTING OF SUCH MEMBERS SHALL BE DONE ON THE END ABOVE MHW. FOR ALL OTHER MEMBERS (STRINGERS, HEADERS, WOOD DECKING AND ANY POST OR RAILS) TREATMENT SHALL BE 0.6 LB/CF CCA.

ALL METAL CONNECTION MATERIALS SHALL BE HOT DIPPED GALVANIZED. BOLTS SHALL BE A MINIMUM OF 36KSI STEEL. ALL BOLTED CONNECTIONS FOR HEADERS AND BRACING MEMBERS SHALL BE LOCATED A MINIMUM OF 4" FROM THE END OF THE MEMBER, AND 2" FROM THE EDGE OF THE MEMBER. MEMBERS THAT ARE SPLIT OR CRACKED IN THE AREA OF THE BOLT LOCATION SHALL NOT BE USED. FOR ALL 1" BOLTS PROVIDE 2" WASHERS BOTH SIDES.

DECKING FOR FIXED DOCK SHALL BE 3/4"x6" COMPOSITE. ALTERNATIVELY 2X6 MEMBERS CAN BE USED. FASTENERS FOR DECKING SHALL BE 2 1/2" STAINLESS STEEL SCREWS TWO AT EACH ATTACHMENT LOCATIONS.

FLOATING DOCK SHALL BE OF WOOD CONSTRUCTION AND HAVE APPROXIMATELY 18" FREEBOARD AND 6" DRAFT. DECKING SHALL BE 3/4"x6" COMPOSITE. FLOATING DOCKS SHALL HAVE HEAVY DUTY INSIDE AND OUTSIDE CORNER HARDWARE AT EACH CORNER LOCATION (FOLLANSBEE WD-E AND WD-IN OR EQUAL). ANGLE CLIPS (FOLLANSBEE RWD-A OR EQUAL) SHALL BE PROVIDED FOR INTERIOR STRUCTURAL MEMBERS AS INDICATED. CLIPS SHALL BE FASTENED USING 2"x3/8" GALVANIZED LAG BOLTS INTO EACH CONNECTING MEMBER.

FLOAT DRUMS SHALL BE FOAM FILLED POLYETHYLENE WITH UV INHIBITORS AND SHALL HAVE STRUCTURAL MOUNTING FLANGES. DESIGN IS BASED ON FLOAT DRUMS AS MANUFACTURED BY "CUSTOM FLOATS." ANY PROPOSED SUBSTITUTES SHALL BE APPROVED BY THE DESIGN ENGINEER.

SECURE FLOAT DRUMS AT ALL EDGES IN CONTACT WITH STRUCTURAL MEMBERS. FOLLOW MANUFACTURERS SPECIFICATIONS. 3/8" LAG BOLTS WITH 1 1/2" WASHERS AND 1" PENETRATOR INTO STRUCTURAL MEMBER SHALL BE A REQUIRED MINIMUM. WHERE TWO DRUMS MEET ON THE SAME STRUCTURAL MEMBER, USE ONE FASTENER FOR EACH DRUM.

PILE HOLDERS FOR FLOATING DOCK PILES SHALL BE HEAVY DUTY GALVANIZED, CHAIN TYPE FOR USE WITH 12" PILING (FOLLANSBEE PH-C OR EQUAL). PLACEMENT OF ALL PILES SHALL BE SO AS TO ALLOW FLOAT TO BE TIED OFF FROM PILING SUCH THAT NO CONTACT WITH PILING OCCURS.

AS AN ALTERNATIVE, PILE HOLDERS FOR FLOATING DOCK MAY BE HEAVY DUTY GALVANIZED, SINGLE ROLLER TYPE FOR USE WITH 12" PILING (FOLLANSBEE PH-H14R OR EQUAL). PLACEMENT OF ALL PILES SHALL BE SO AS TO ALLOW MOVEMENT OF THE FLOAT TO AVOID EXCESSIVE RUBBING OF HOOPS.

SECURE PILE HOLDERS TO FLOATING DOCK WITH 4-1/2" THROUGH BOLTS (IN HORIZONTAL DIRECTION) AND 4-3/8" LAG BOLTS (VERTICAL DIRECTION). USE 3"x10" SPLICE BLOCK BEHIND OUTSIDE MEMBER TO PROVIDE ADEQUATE WIDTH FOR FASTENING. USE METAL BACKER PLATES FOR 1/2" THROUGH BOLTS.

CLEATS SHALL BE PROVIDED FOR FLOATING DOCK, TWO ON EACH SIDE 1' FROM EACH END. CLEAT SIZE SHALL BE 10" (FOLLANSBEE C-10-M OR EQUAL) AND SHALL BE FASTENED TO WOOD MEMBERS USING CLEAT ANGLS.

A VINYL BUMPER STRIP SHALL BE PROVIDED ALONG THE OUTBOARD SIDE OF THE FLOATING DOCK. BUMPER STRIP SHALL BE AS MANUFACTURED BY "FOLLANSBEE" MODEL VRR-2 OR EQUAL. RAMP SHALL BE ALUMINUM AND CONSTRUCTION SHALL BE BY MANUFACTURER REGULARLY ENGAGED IN THE TRADE. RAMP SHALL BE CONNECTED TO FIXED PORTION OF DOCK AS RECOMMENDED BY MANUFACTURER. ROLLER ASSEMBLY AT FLOATING DOCK SHALL BE 2" DIAMETER BY 6" WIDE SMALL ROLLER TYPE. INSTALL PLASTIC OR METAL SHEET TO DECK, FOR ROLLERS.

**UTILITY SPECIFICATIONS:**

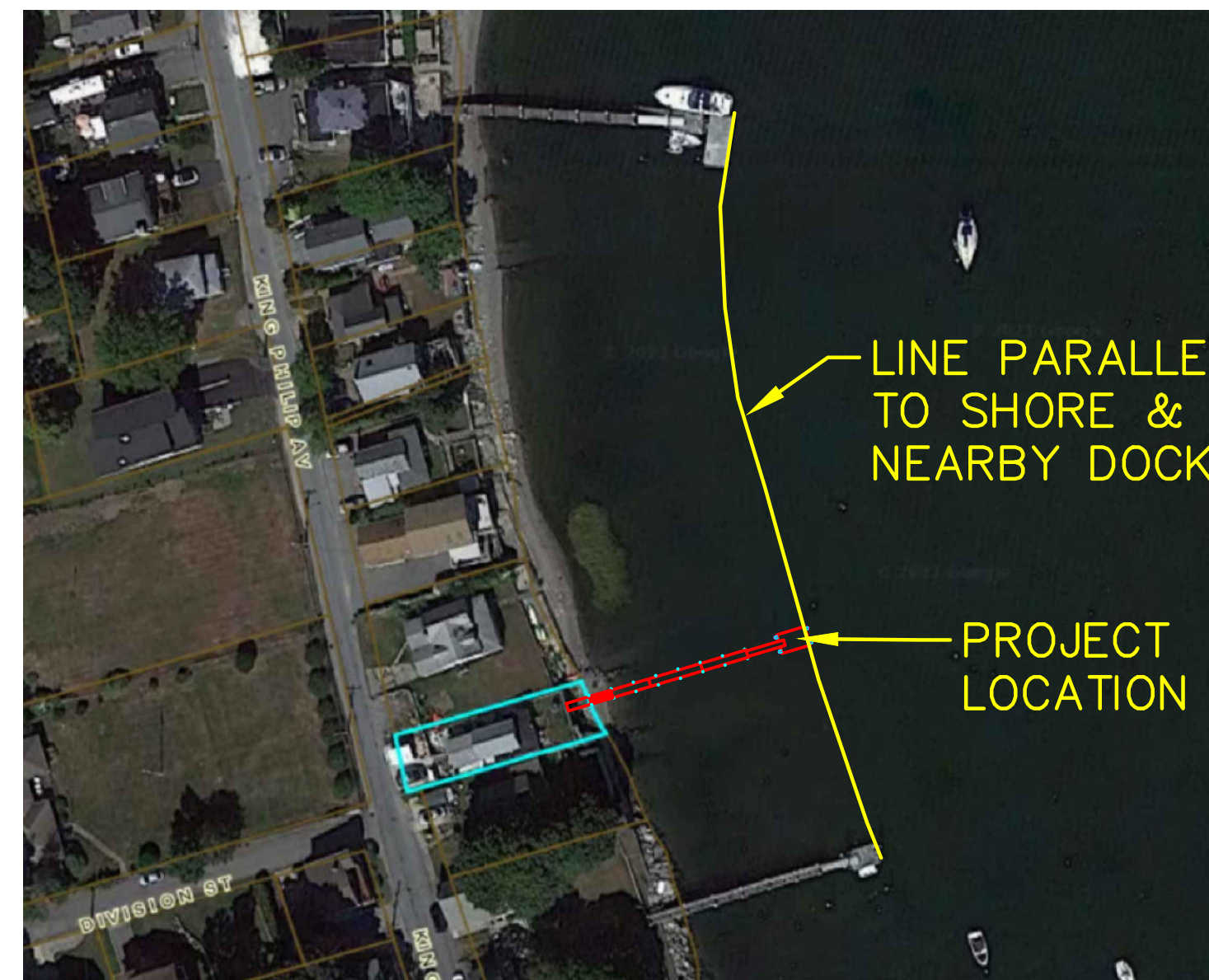
ALL UTILITY WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THEIR RESPECTIVE TRADES. ALL WORK SHALL MEET REQUIREMENTS OF THE CURRENT STATE BUILDING CODES.

ELECTRICAL WIRE SHALL BE SIZED BY THE ELECTRICAL CONTRACTOR. WIRE SHALL BE ENCASED IN PVC CONDUIT SUITABLE FOR MARINE APPLICATION. INSTALL EXTERIOR-TYPE, MARINE GRADE, DOUBLE RECEPTACLE AT END OF PIER AS INDICATED.

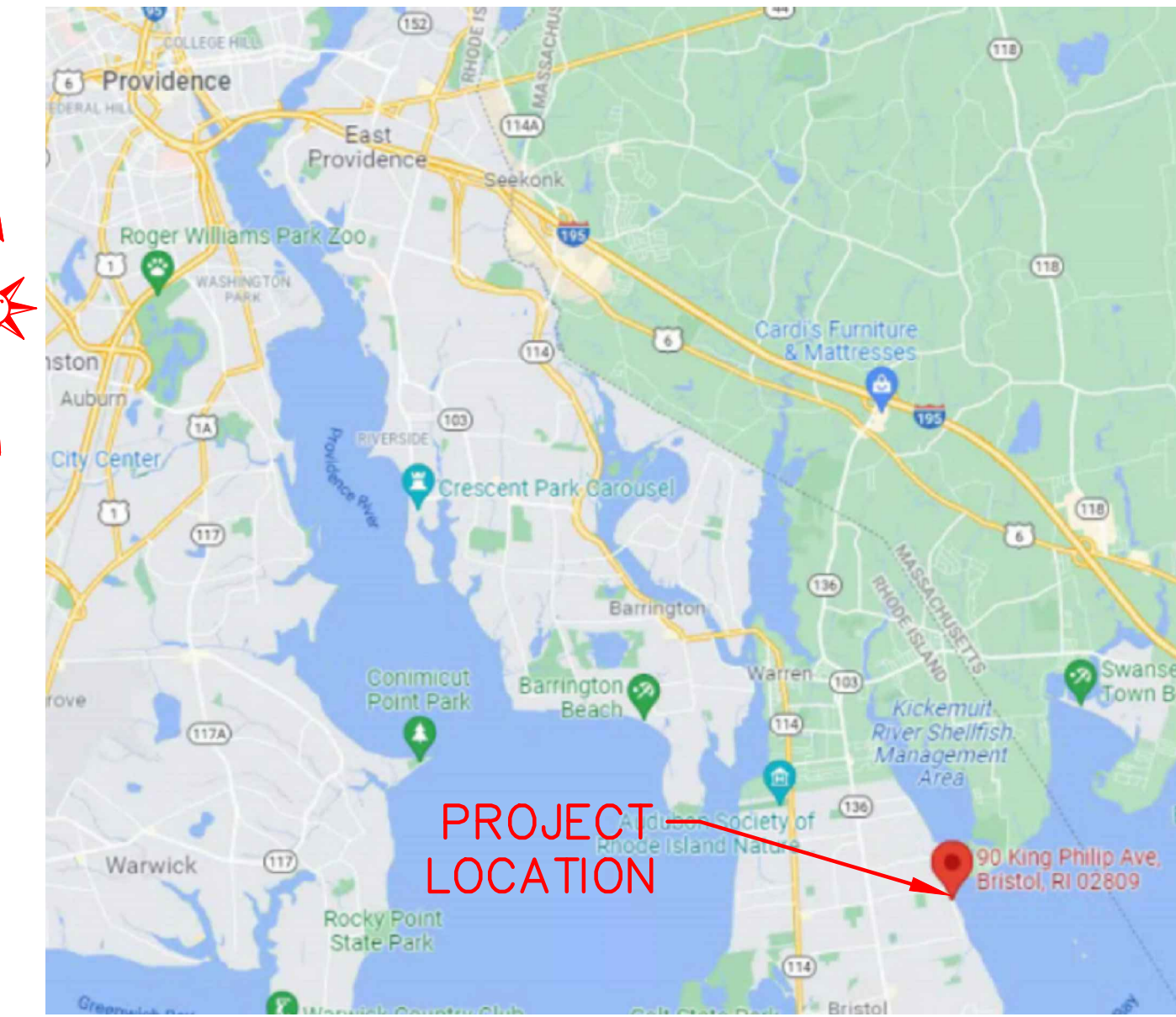
WATER LINE SHALL BE 3/4" POLYETHYLENE TUBING AS MANUFACTURED BY "AQUAPEX" OR EQUAL. INSTALL SUITABLE BACKFLOW PREVENTER AT EITHER EXISTING DWELLING OR PIER HEAD AS REQUIRED BY CODE. PROVIDE DRAIN AT PIER HEAD TO ALLOW REMOVAL OF WATER FROM THE LINE DURING THE WINTER MONTHS. INSTALL SPIGOT AT END OF PIER AS INDICATED.

ELECTRIC/WATER UTILITY LINES SHALL BE CONNECTED AT EXISTING DWELLING. LINES SHALL BE BURIED A MINIMUM DEPTH OF 12" ACROSS EXISTING LAWN AREA. UTILITIES SHALL BE SECURED TO UNDERSIDE OF PIER AS INDICATED, WITH GALVANIZED METAL FASTENERS EVERY 5' ON CENTER.

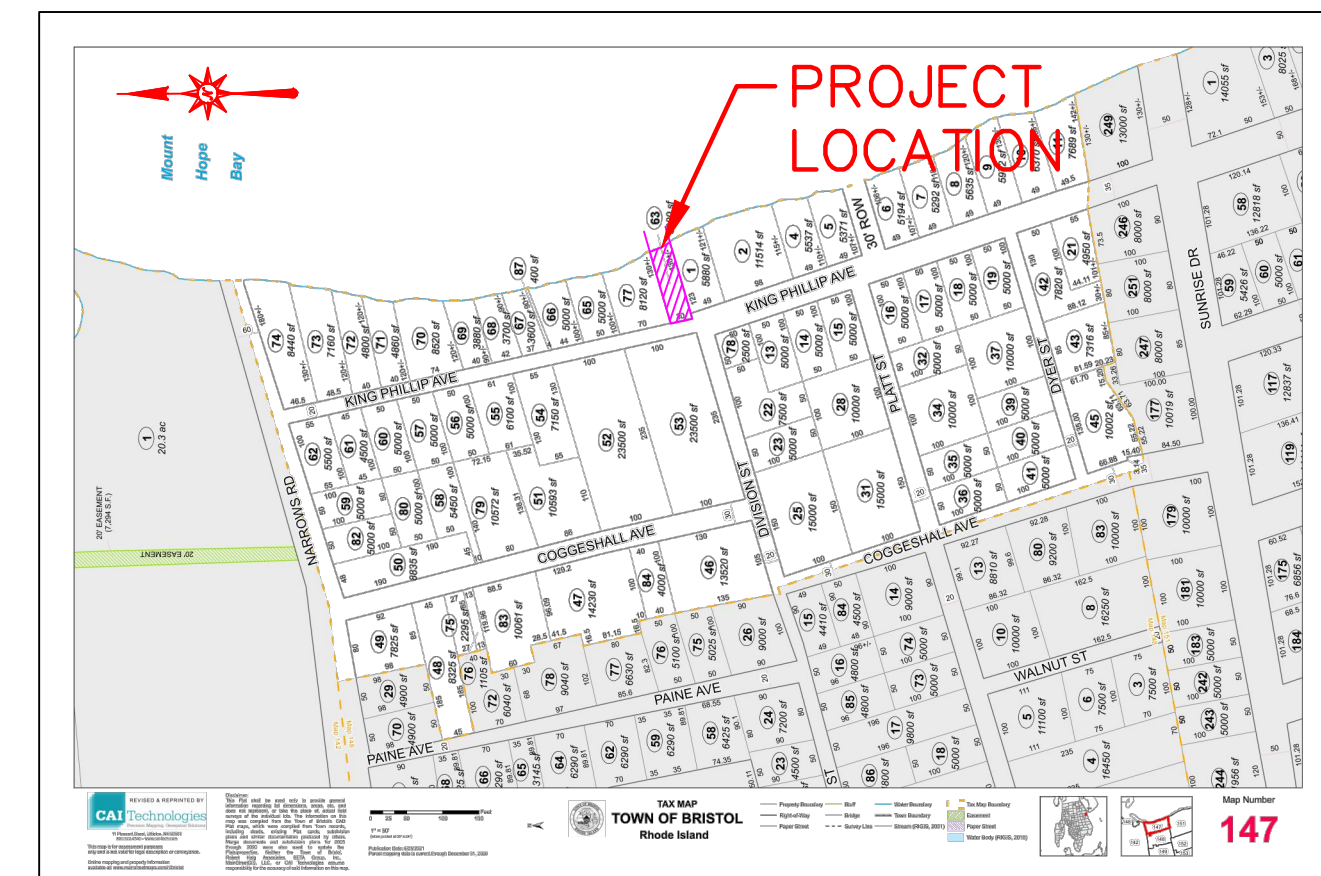
LOW VOLTAGE LIGHTING SHALL BE PROVIDED ALONG THE DOCK AS INDICATED. LIGHTING TYPE TO BE PROPOSED BY CONTRACTOR. INCLUDE LOW VOLTAGE WIRING IN ELECTRICAL CONDUIT OR SEPERATE CONDUIT AS REQUIRED BY CODE.



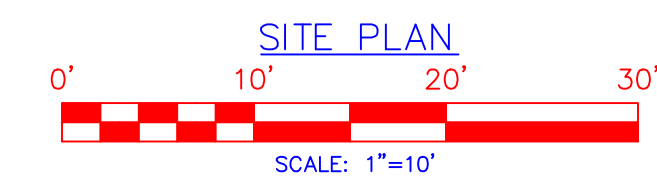
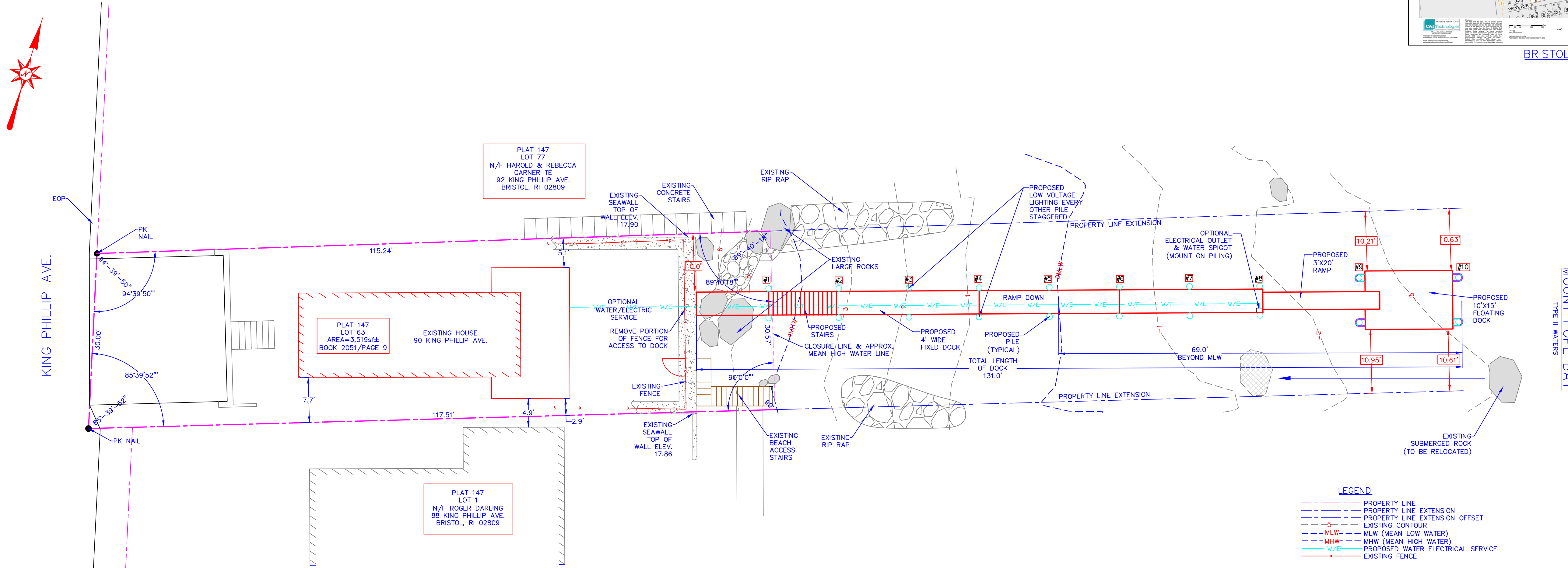
AERIAL PHOTO  
NTS



LOCUS PLAN  
NTS



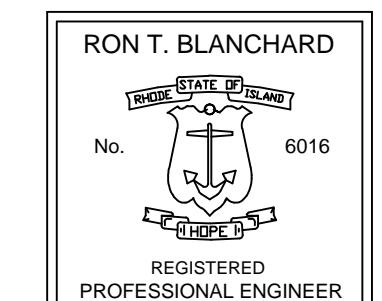
BRISTOL, RI PLAT MAP #147  
NTS



SITE PLAN  
SCALE: 1"=10'

- LEGEND**
- PROPERTY LINE
  - PROPERTY LINE EXTENSION
  - - - PROPERTY LINE EXTENSION OFFSET
  - - - EXISTING CONTOUR
  - - - MLW (MEAN LOW WATER)
  - - - MHW (MEAN HIGH WATER)
  - - - PROPOSED WATER ELECTRICAL SERVICE
  - EXISTING FENCE

**DISCLAIMER:**  
THIS SITE PLAN IS THE RESULT OF A LIMITED TOPOGRAPHIC SURVEY BY SEI. LOT LINES ARE ESTIMATED PER APPLICABLE REFERENCE PLAN(S). THIS PLAN DOES NOT REPRESENT A BOUNDARY (CLASS I) SURVEY, WHICH CAN ONLY BE DONE BY A LICENSED LAND SURVEYOR.



**OWNER INFO:**  
TIMOTHY DESCHENES TE & ALYSSA MERKLE  
1868 COMMONWEALTH AVE.  
BRIGHTON, MA 02135

**SITE LOCATION:**  
90 KING PHILLIP AVE.  
BRISTOL, RI 02809

**REFERENCE PLAN:**  
-PLAN ENTITLED "BOUNDARY SURVEY & SITE PLAN, PLAT 147, LOT 63 90 KING PHILLIP AVENUE, BRISTOL, RI 02809  
OWNER/APPLICANT: ALYSSA MERKLE & TIMOTHY DECHENES"  
PREPARED BY: MJF ENGINEERING ASSOCIATES  
DATED: DECEMBER 13, 2021

**NOTES:**  
ALL MOORINGS FOUND WITHIN 50' OF END OF PROPOSED DOCK HAVE BEEN SHOWN ON PLAN

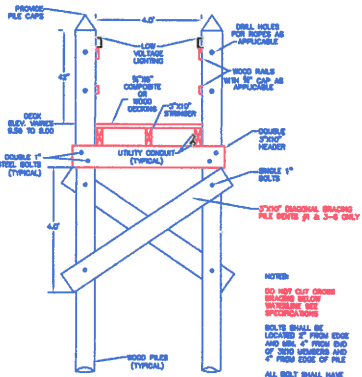
**DATUM:**  
REFERENCE DATUM IS MEAN LOW WATER

NO.	REVISIONS	DATE	APP'VD
001	REVISED TO INCORPORATE CLASS I SURVEY	7/26/22	
002	REVISED PER CRMC COMMENTS	10/27/22	

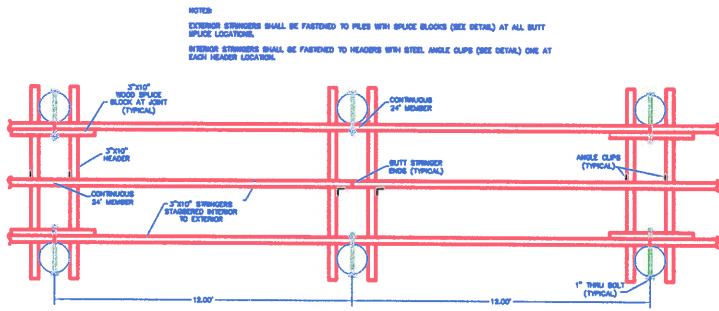
**SEI**  
**SITE ENGINEERING INC.**  
CIVIL • COASTAL • STRUCTURAL  
75 WOOD STREET  
BRISTOL, RI 02809  
PHONE: (401) 253-8231

**SITE PLAN AND SPECIFICATIONS**  
**RESIDENTIAL BOATING FACILITY**  
PLAT 147, LOT 63  
90 KING PHILLIP AVE.  
BRISTOL, RHODE ISLAND.

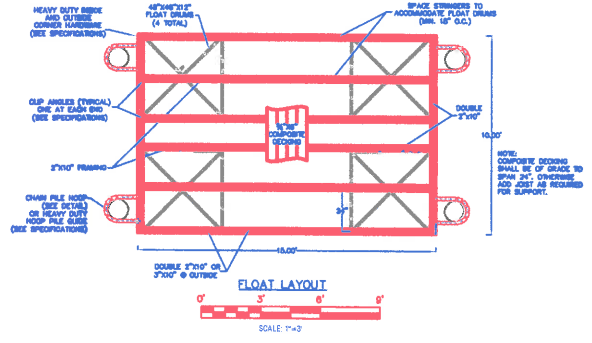
SCALE: AS NOTED  
(SHEET 1 OF 2)  
**DK-1**



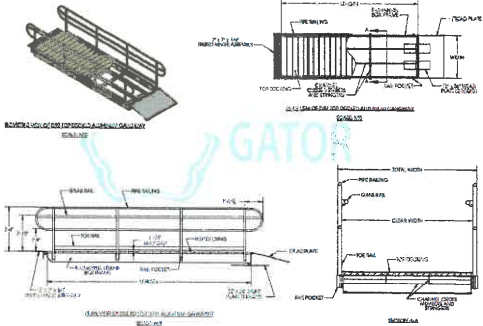
TYPICAL CROSS SECTION  
NOT TO SCALE



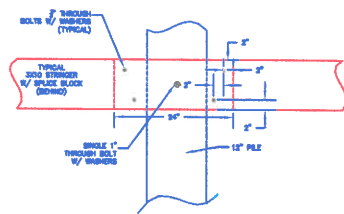
TYPICAL STRINGER LAYOUT  
NOT TO SCALE



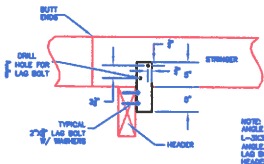
SCALE 1/4\"/>



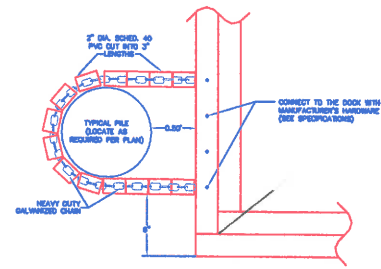
PROPOSED ALUMINUM RAMP  
NOT TO SCALE



SPLICE BLOCK DETAIL  
NOT TO SCALE

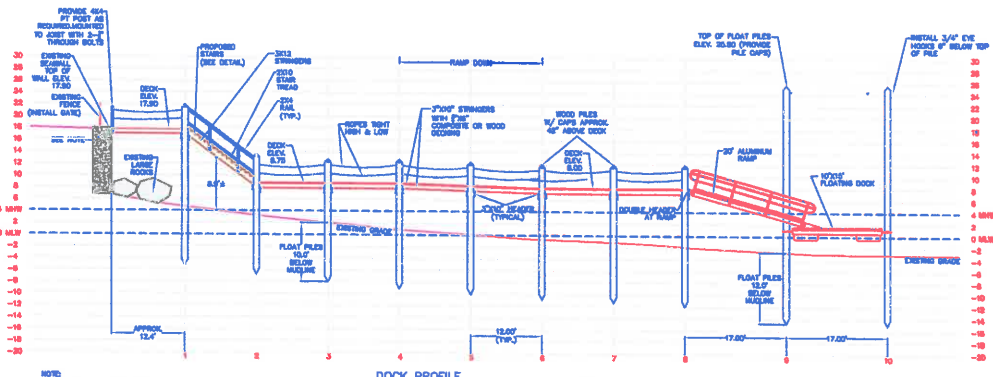


STRINGER/HEADER CONNECTION DETAIL  
NOT TO SCALE



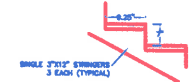
CHAIN HOOP DETAIL  
SCALE 1/2\"/>

**RECEIVED**  
**AUG 25 2022**  
 COASTAL RESOURCES  
 MANAGEMENT COUNCIL



DOCK PROFILE  
SCALE 1/4\"/>

STAIR RISE SHALL BE 7"  
STAIR RUN SHALL BE 9.25"  
(2X10)



STAIR DETAIL  
NOT TO SCALE

OWNER INFO:  
TIMOTHY DESCHENES TE  
& ALYSSA MERKLE  
1888 COMMONWEALTH AVE.  
BRIGHTON, MA 02135  
SITE LOCATION:  
90 KING PHILLIP AVE.  
BRISTOL, RI 02809



NO.	DATE	DESCRIPTION	BY	CHKD.	APPVD.

DESIGN	RG	VS			
DR.					
CHK.					
DATE:	12/21/21				

**SEI**  
**SITE ENGINEERING INC.**  
 CIVIL - GEOTECH - ENVIRONMENTAL  
 10 WOOD STREET  
 BRISTOL, RI 02809  
 PHONE: (401) 886-8871

**DOCK PROFILE & DETAILS**  
**RESIDENTIAL BOATING FACILITY**  
 PLAT 147, LOT 63  
 90 KING PHILLIP AVE.  
 BRISTOL, RHODE ISLAND

**DK-2**