DESIGN CRITERIA: THE STRUCTURAL SYSTEM FOR THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH ASCE 7-16 & THE FLORIDA BUILDING CODE, BUILDING 2020. WIND LOADS HAVE BEEN CALCULATED FOR RISK CATEGORY I, 160 MPH ULTIMATE, EXPOSURE D.

DECK LIVE LOAD: 40 PSF DECK DEAD LOAD: 5 PSF

MATERIALS: UNLESS NOTED OTHERWISE, ALL WOOD CONSTRUCTION SHALL MEET OR EXCEED REQUIREMENTS OF CHAPTER 23, FBC 2020.

DIMENSIONAL LUMBER SHALL BE RATED IN ACCORDANCE WITH THE STANDARDS OF THE CURRENT EDITION OF THE AMERICAN WOOD COUNCIL'S NATIONAL DESIGN SPECIFICATIONS.

ALL WOOD MEMBERS SHALL BE SYP #2 U.N.O. WOOD EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH CONCRETE SHALL BE EITHER PRESSURE TREATED OR A NATURALLY DURABLE SPECIES.

ALL FASTENERS IN CONTACT WITH PRESSURE TREATED SHALL BE STAINLESS STEEL.

BOLTS: ALL HEX OR CARRIAGE STYLE BOLTS SHALL BE ASTM 1555, GRADE 99 OR GREATER. BOLTS SHALL BE HDG (G185 MARINE GRADE) OR STAINLESS STEEL.

TERMS

DECK: WALKING SURFACE MATERIAL

JOISTS: ELEMENTS SUPPORTING DECK

GIRDERS: ELEMENTS SUPPORTING JOISTS

PILES: VERTICAL ELEMENTS SUPPORTING HORIZONTAL ELEMENTS.

LONGITUDINAL: DIRECTION OF DOCK THAT IS PARALLEL WITH THE JOISTS

TRANSVERSE: DIRECTION OF DOCK THAT IS PARALLEL WITH THE GIRDERS

TRAVERSABLE: OVERALL LENGTH X WIDTH OF DECKING AREA, MEASURED BY EDGE/END OF DECK MATERIAL.

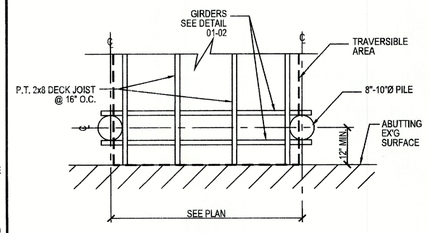
RIPARIAN LINE: EXTENSION OF PROPERTY LINE INTO WATERS AS DETERMINED BY APPROPRIATE LICENSEES AND/OR GOVERNING BODIES.

MOORING AREA: REASONABLE BOUNDARY A WATER VESSEL OCCUPIES WHEN PRESENT AND SECURED

M.H.W.L.: MEAN HIGH WATER LEVEL

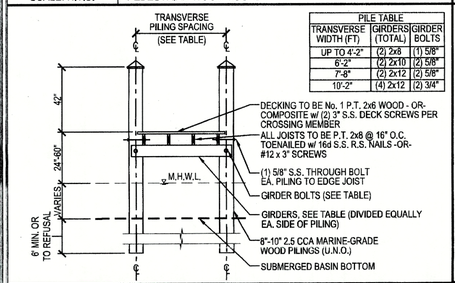
01-01 GENERAL SPECIFICATIONS

SCALE: N.T.S. PEDESTRIAN WOOD DOCKS



01-06 ABUTTING EX'G SURFACE

SCALE: N.T.S. TYP. DOCK DETAIL

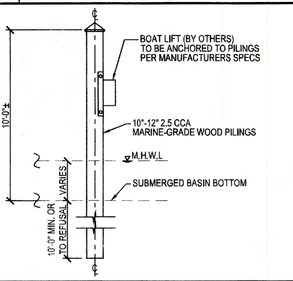


PILE TABLE

TRANSVERSE WIDTH (FT)	GIRDERS (TOTAL)	GIRDER BOLTS
UP TO 4'-2"	(2) 2x8	(1) 5/8"
6'-2"	(2) 2x10	(2) 5/8"
7'-8"	(2) 2x12	(2) 5/8"
10'-2"	(4) 2x12	(2) 3/4"

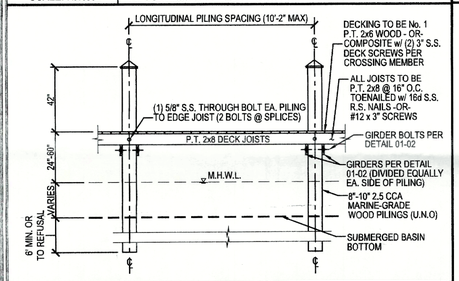
01-02 TRANSVERSE PILE SECTION

SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



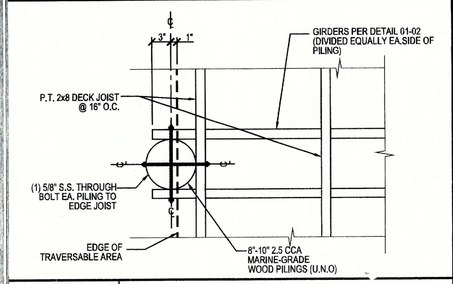
01-07 EQUIPMENT PILINGS

SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



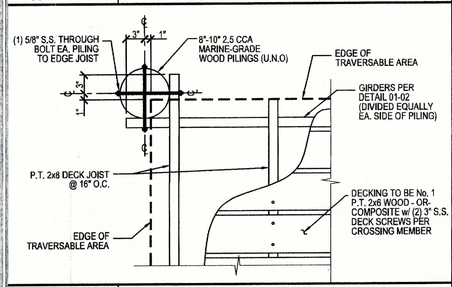
01-03 LONGITUDINAL PILE SECTION

SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



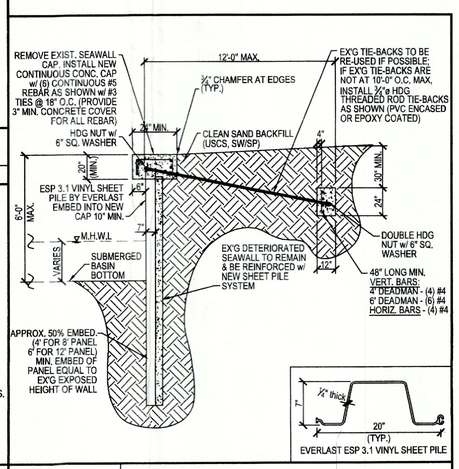
01-04 MID-SPAN CONNECTION

SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



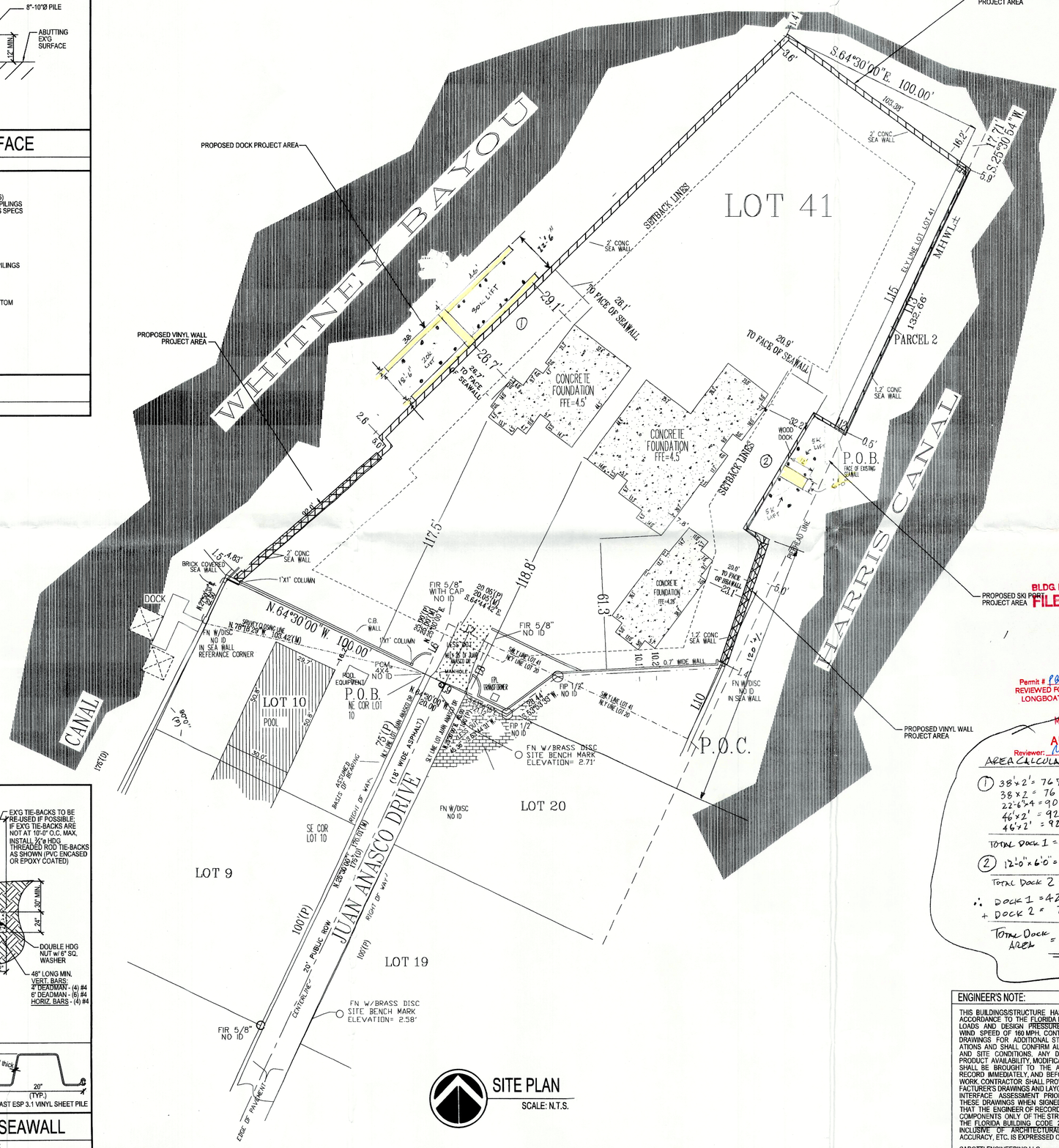
01-05 CORNER CONNECTION

SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



01-51 CROSS SECTION AT SEAWALL

SCALE: N.T.S. TYP. REPAIR UNLESS NOTED OTHERWISE



SITE PLAN

SCALE: N.T.S.

Permit # FB 23-0067
REVIEWED FOR CODE COMPLIANCE
LONGBOAT KEY BUILDING DEPT.

MAR 15 2023

APPROVED

Reviewer:

AREA CALCULATION

(1) 38'x2' = 76 ϕ
38'x2' = 76 ϕ
22'-6"x4 = 90 ϕ
46'x2' = 92 ϕ
46'x2' = 92 ϕ
TOTAL DOCK 1 = 426 ϕ

(2) 12'-0"x6'-0" = 72 ϕ
TOTAL DOCK 2 = 72 ϕ

∴ DOCK 1 = 426 ϕ
+ DOCK 2 = 72 ϕ
TOTAL DOCK AREA = 498 ϕ < 500 ALLOWED

RECEIVED
MAR 15 2023
TOWN OF LONGBOAT KEY
Planning, Zoning & Building

ENGINEER'S NOTE:

THIS BUILDINGS/STRUCTURE HAS BEEN DESIGNED IN GENERAL ACCORDANCE TO THE FLORIDA BUILDING CODE 2020 FOR GRAVITY LOADS AND DESIGN PRESSURES GENERATED BY AN ULTIMATE WIND SPEED OF 160 MPH. CONTRACTOR SHALL CONSULT THESE DRAWINGS FOR ADDITIONAL STRUCTURAL NOTES AND SPECIFICATIONS AND SHALL CONFIRM ALL FIELD MATERIAL CONFORMANCE AND SITE CONDITIONS. ANY DISCREPANCIES OF DIMENSIONS, PRODUCT AVAILABILITY, MODIFICATIONS, OR GENERAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY, AND BEFORE PROCEEDING WITH AFFECTED WORK. CONTRACTOR SHALL PROVIDE ENGINEER WITH TRUSS MANUFACTURER'S DRAWINGS AND LAYOUT FOR REVIEW AND STRUCTURAL INTERFACE ASSESSMENT PRIOR TO START OF CONSTRUCTION. THESE DRAWINGS WHEN SIGNED AND SEALED ARE AN INDICATION THAT THE ENGINEER OF RECORD HAS REVIEWED THE STRUCTURAL COMPONENTS ONLY OF THE STRUCTURE FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE 2020, NOT OTHER CERTIFICATION, INCLUSIVE OF ARCHITECTURAL ELEMENTS AND DIMENSIONAL ACCURACY, ETC. IS EXPRESSED OR IMPLIED.

CAROTTI ENGINEERING LLC

Digitally signed by Renato Carotti
DN: c=US, st=Florida, l=Oneco, o=Carotti Engineering LLC, cn=Renato Carotti, email=rac@carottiengineering.net
Date: 2022.12.16 14:48:03 -05'00'

CAROTTI ENGINEERING LLC
941-747-7874
FAX
FLORIDA CA 29437

THESE PLANS AND ARE THE PROPERTY OF CAROTTI ENGINEERING LLC AND SHALL NOT BE REPRODUCED, PUBLISHED OR USED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OR ANY CONSTRUCTION PERFORMED FROM THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER SHALL RELIEVE THE ENGINEER OF ANY LIABILITY. ANY UNAUTHORIZED USE OF THESE PLANS SHALL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY TO THE ENGINEER. ANY UNAUTHORIZED USE OF THESE PLANS ARE COPYRIGHTED AND are subject to protection under the federal copyright act. ALL RIGHTS RESERVED. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PROJECT, EXTENSIONS TO THE SITE OR MODIFICATIONS TO THE SITE, WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE ENGINEER FOR SUCH INTENDED USE. ANY SUCH UNAUTHORIZED USE SHALL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY TO THE ENGINEER. THE USER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, SUITS, COSTS, LIABILITIES AND EXPENSES, INCLUDING ATTORNEY'S FEES AND COURT COSTS, ON ANY PROJECT OR ADDITION TO THE PROJECT FOR WHICH THESE PLANS WERE NOT PREPARED BY THE ENGINEER.

PROPOSED PROJECT FOR DOCK

512 Juan Anasco Dr
Longboat Key, FL 34228

REVISIONS
7 12/31/20 FBC 2020
6 12/31/17 FBC 2017
5 6/30/15 FBC 2014
4 3/15/12 FBC 2010
REVIEWED & ACCEPTED BY: RCAROTTI

DATE
16 DEC 22

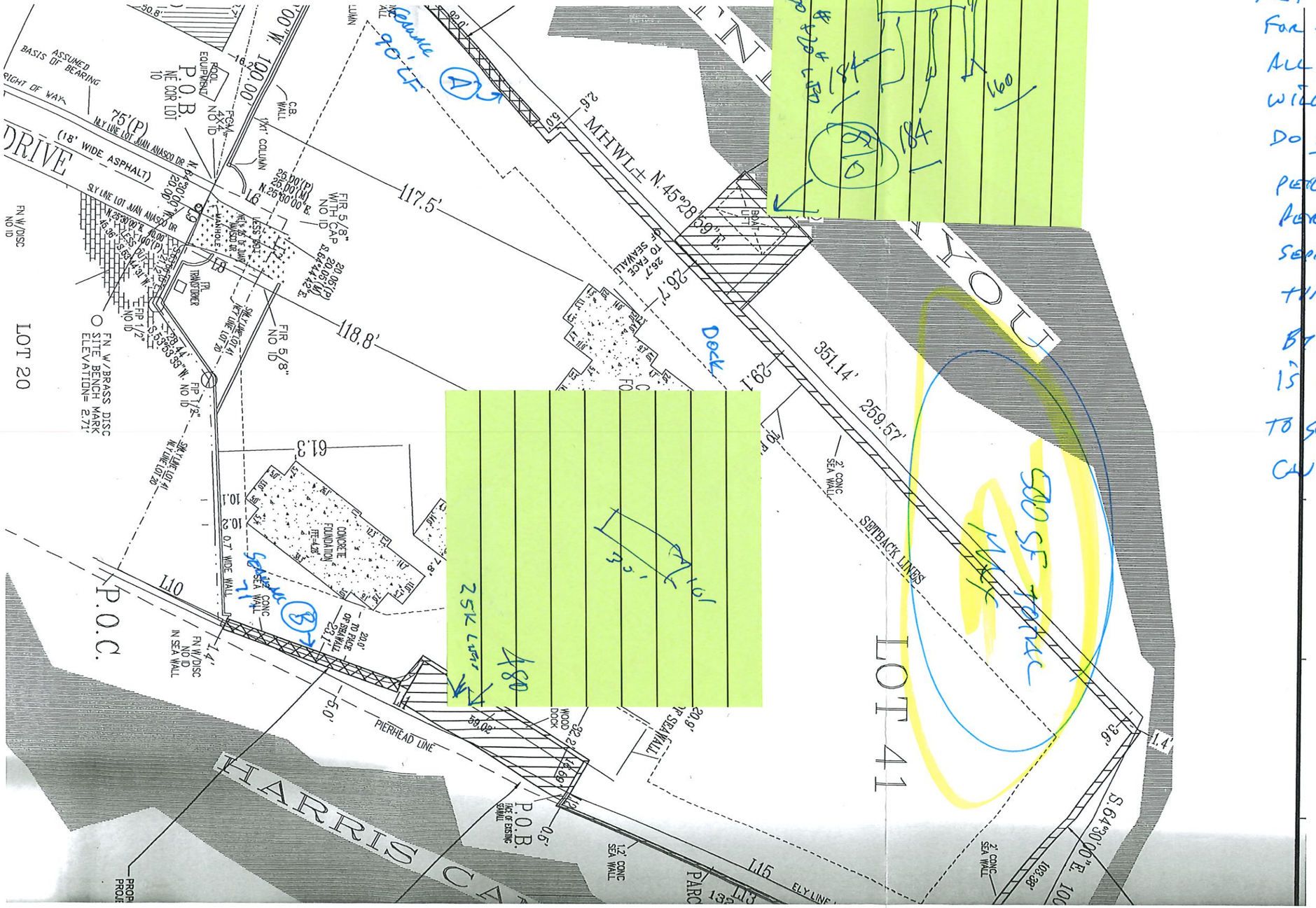
CE4591

SHEET NO.
SP-1

BLDG. PERMIT PLANS
FILE COPY OF RECORD

3.6.2023

NOTE TO RECORD:

TATE, JESUS (CONTRACTOR) + NEAL MET + DISCUSSED THE PERMITTING FOR THIS PROJECT SO WE ARE ALL ON THE SAME PAGE. JESUS WILL RESUBMIT DOCK PLANS THAT DO NOT EXCEED 500SF IN AREA PER TOWN REGULATIONS. SEPARATE PERMIT CAN BE APPROVED WITH SEPARATE LEGIBLE PLANS AT ANY TIME, AND JESUS WAS TOLD THIS BY NEAL IN THE MEETING. TJLK IS ONLY AWAITING FOR THE CONTRACTOR TO SUBMIT PLANS IN PACKAGES WE CAN APPROVE.

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