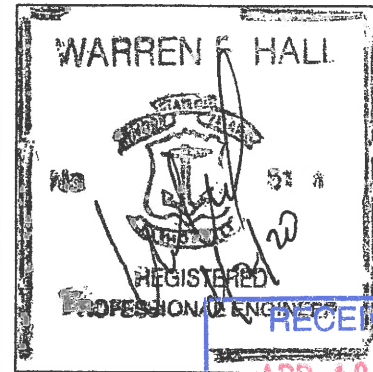


LOCUS PLAN
 1"=5280'

PROPOSED RESIDENTIAL PIER FOR:
 JONATHAN JANIKIES
 166 WATERWAY
 NARRAGANSETT AP NB, LOT 1
 NORTH KINGSTOWN, AP 1, LOT 148
 BY: WARREN HALL, CIVIL ENGINEER
 APRIL 2, 2020 SHEET 1 OF 10

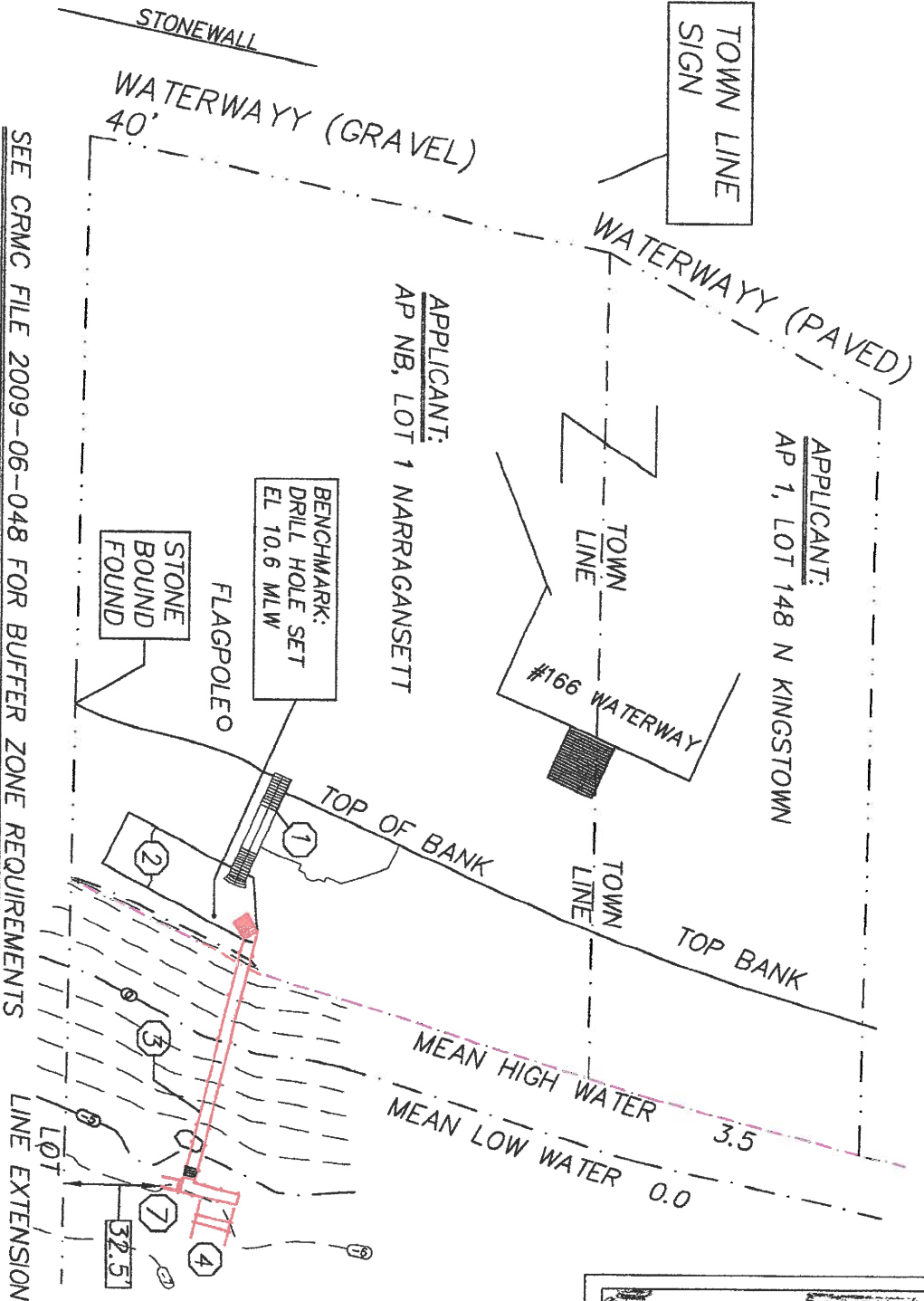


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COASTAL RESOURCES
 MANAGEMENT COUNCIL

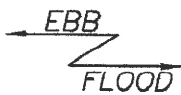
PROPOSED RESIDENTIAL PIER FOR:
 JONATHAN JANIKIES
 166 WATERWAY
 NARRAGANSETT AP NB, LOT 1
 NORTH KINGSTOWN, AP 1, LOT 148
 BY: WARREN HALL, CIVIL ENGINEER
 APRIL 2, 2020 SHEET 2 OF 10

SEE CRMC FILE 2009-06-048 FOR BUFFER ZONE REQUIREMENTS



- ① EXISTING STEPS
- ② EXISTING CONCRETE DECK
- ③ PROPOSED PIER
- ④ 30,000# BOAT LIFT
- ⑦ JET SKI LIFT

NARRAGANSETT BAY
 WEST PASSAGE
 CRMC TYPE 2 WATER

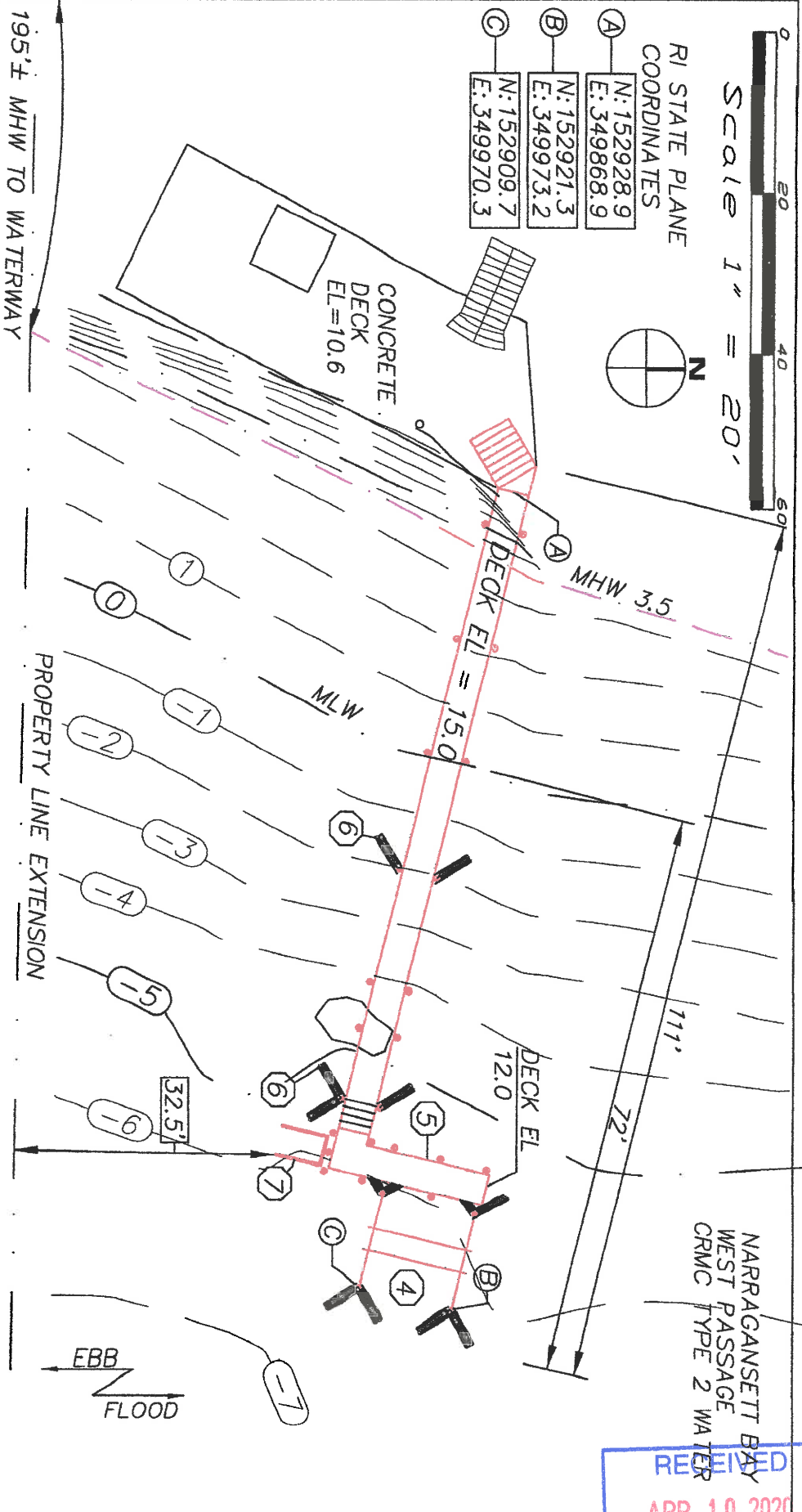
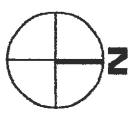


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 REGISTERED PROFESSIONAL ENGINEER
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Scale 1" = 20'

RI STATE PLANE
COORDINATES

A	N: 152928.9 E: 349868.9
B	N: 152921.3 E: 349973.2
C	N: 152909.7 E: 349970.3



PROPOSED RESIDENTIAL PIER FOR:
 JONATHAN JANIKIES
 166 WATERWAY
 NARRAGANSETT AP NB, LOT 1
 NORTH KINGSTOWN, AP 1, LOT 148
 BY: WARREN HALL, CIVIL ENGINEER
 APRIL 2, 2020 SHEET 3 OF 10

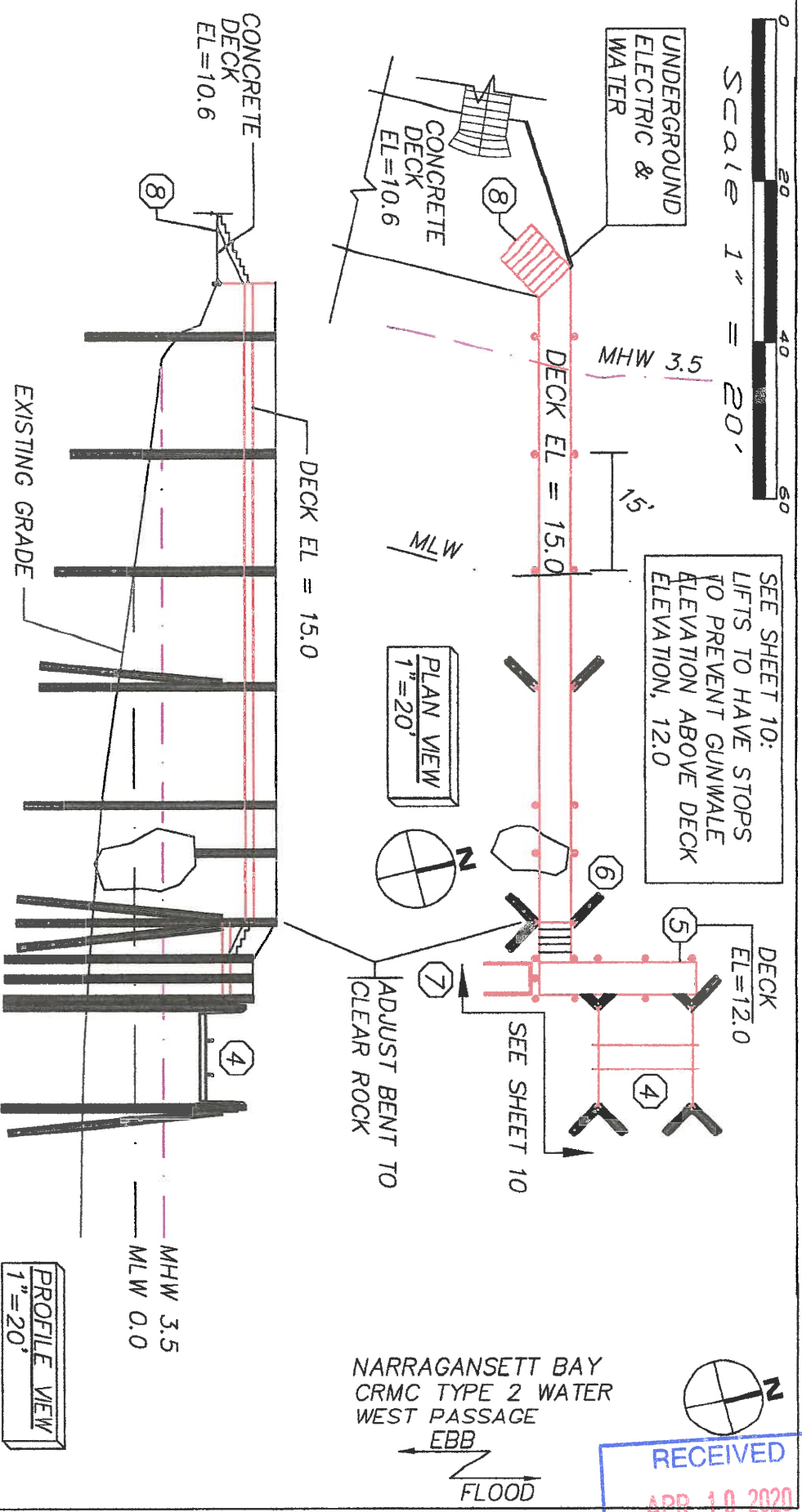
- ④ 30,000# BOAT LIFT
- ⑤ 4'x20' FIXED ACCESS DECK EL = 12.0
- ⑥ BATTER PILES
- ⑦ JET SKI LIFT

WARREN F HALL
 REGISTERED PROFESSIONAL ENGINEER
 APR 10 2020

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SEE SHEET 10:
LIFTS TO HAVE STOPS
TO PREVENT ABOVE GUNWALE
ELEVATION, 12.0



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NARRAGANSETT BAY
CRMC TYPE 2 WATER
WEST PASSAGE
EBB
FLOOD

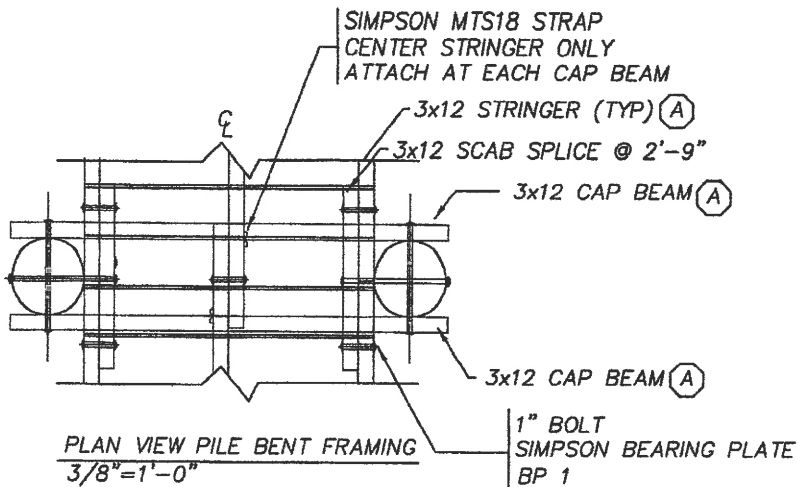
PROFILE VIEW
1" = 20'

PLAN VIEW
1" = 20'

PROPOSED RESIDENTIAL PIER FOR:
JONATHAN JANIKIES
166 WATERWAY
NARRAGANSETT AP NB, LOT 1
NORTH KINGSTOWN, AP 1, LOT 148
BY: WARREN HALL, CIVIL ENGINEER
APRIL 2, 2020 SHEET 4 OF 10

- ④ 30,000# BOAT LIFT
- ⑤ 4'x20' FIXED ACCESS DECK EL = 12.0
- ⑥ BATTER PILES
- ⑦ JET SKI LIFT
- ⑧ 3Ø3x12 STRINGER FASTEN TO DECK WITH SIMPSON ANCHORS

WARREN HALL
REGISTERED PROFESSIONAL ENGINEER
6414



GREENHEART PILE PROPERTIES:
 MODULUS OF RUTTURE 19,300 PSI
 MODULUS OF ELASTICITY 2,470,000 PSI

FRAMING PROPERTIES:

(A) 3x12: 3-1/2"x11-7/8" POWER LAM BEAMS
 Fb=2400psi, E=1,800,000psi, Fv=300psi

SOUTHERN YELLOW PINE
 Fb 1200 PSI
 Fv 80 PSI
 DECK PLANKS TO BE 3x8 #1 GRADE

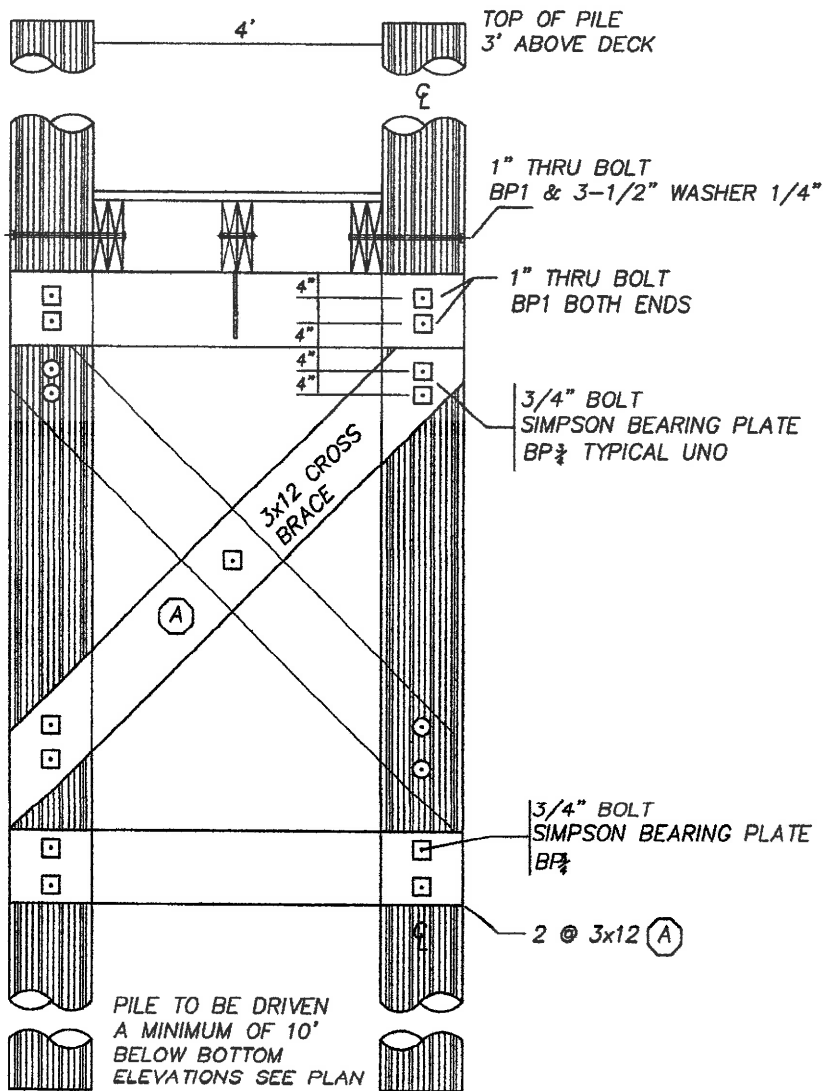
NOTES:

- 1) ALL BOLT HOLES SHALL BE PRE DRILLED 1/16" GREATER THAN DIAMETER OF BOLT
- 2) ALL BOLTS SHALL BE HDG ASTM A307 GRADE A WITH HEAVY HEX NUTS

LEGEND

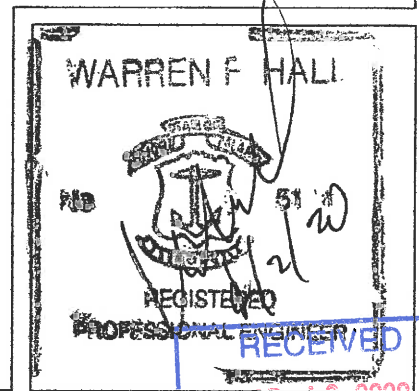
SS: STAINLESS STEEL
 HDG: HOT DIPPED GALVANIZED

ALL PILES SHALL BE GREENHEART
 UNLESS NOTED

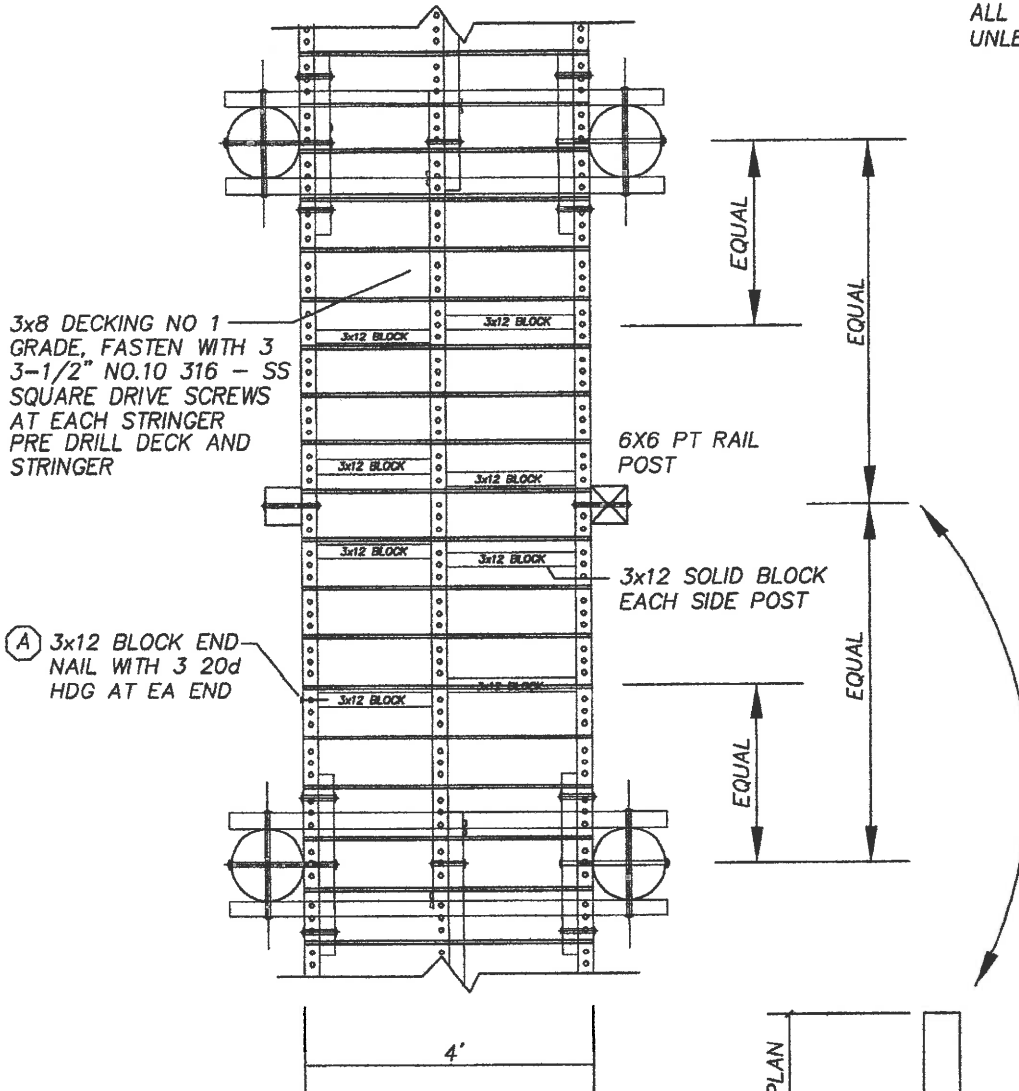


TRANSVERSE SECTION PILE BENT
 3/8"=1'-0"

PROPOSED RESIDENTIAL PIER FOR:
 JONATHAN JANIKIES
 166 WATERWAY
 NARRAGANSETT AP NB, LOT 1
 NORTH KINGSTOWN, AP 1, LOT 148
 BY: WARREN HALL, CIVIL ENGINEER
 APRIL 2, 2020 SHEET 5 OF 10



ALL PILES SHALL BE GREENHEART UNLESS NOTED



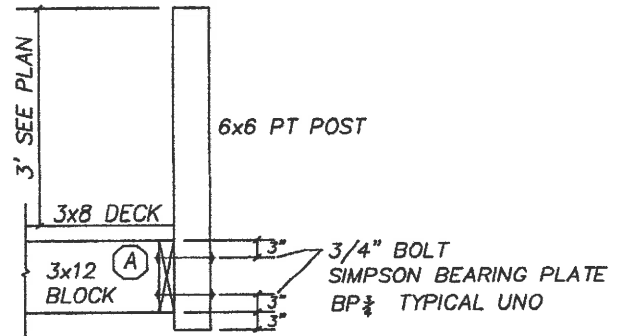
3x8 DECKING NO 1 GRADE, FASTEN WITH 3 3-1/2" NO.10 316 - SS SQUARE DRIVE SCREWS AT EACH STRINGER PRE DRILL DECK AND STRINGER

6X6 PT RAIL POST

3x12 SOLID BLOCK EACH SIDE POST

(A) 3x12 BLOCK END NAIL WITH 3 20d HDG AT EA END

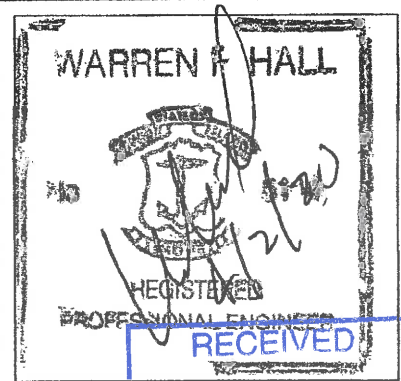
PLAN VIEW TYPICAL FRAMING
3/8"=1'-0"



DETAIL AT RAILING POST
3/8"=1'-0"

(A) 3x12: 3-1/2"x11-7/8" POWER LAM BEAMS
Fb=2400psi, E=1,800,000psi, Fv=300psi

PROPOSED RESIDENTIAL PIER FOR:
JONATHAN JANIKIES
166 WATERWAY
NARRAGANSETT AP NB, LOT 1
NORTH KINGSTOWN, AP 1, LOT 148
BY: WARREN HALL, CIVIL ENGINEER
APRIL 2, 2020 SHEET 6 OF 10



APR 10 2020
COASTAL RESOURCES MANAGEMENT COUNCIL

ALL PILES SHALL BE GREENHEART
UNLESS NOTED

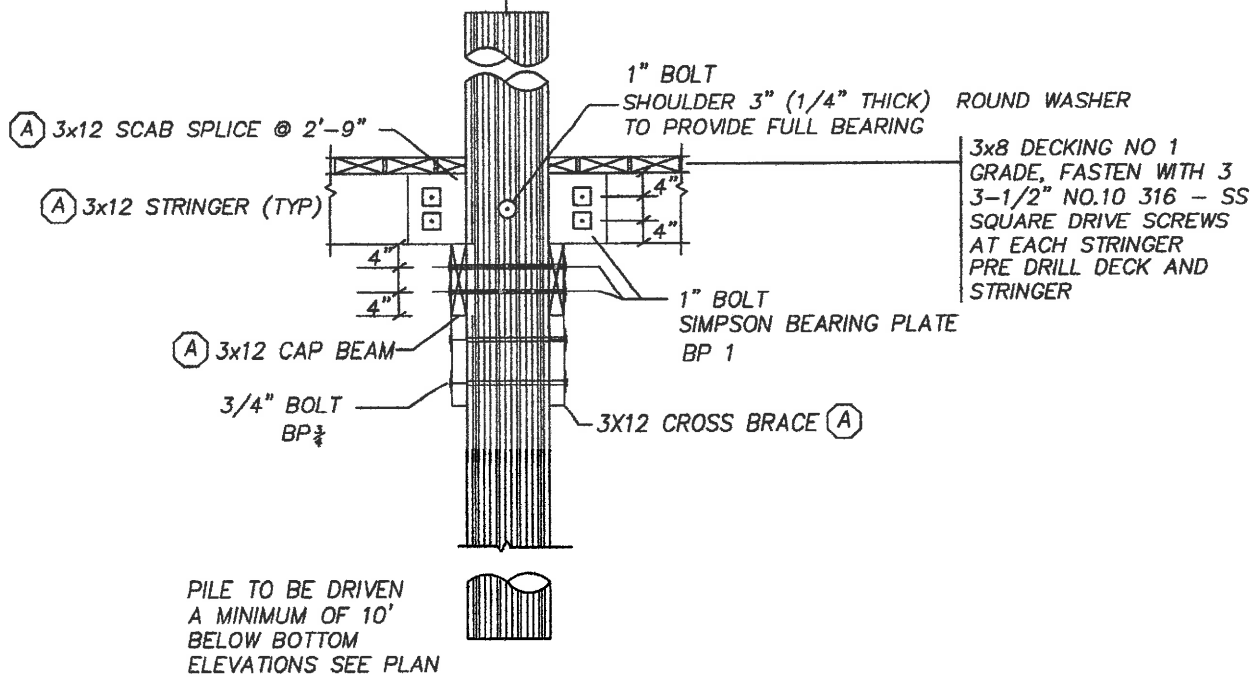
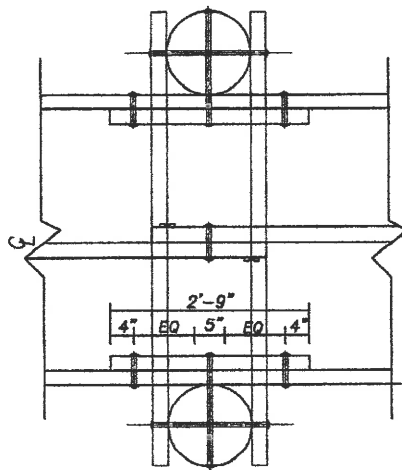
GREENHEART PILE PROPERTIES:
MODULUS OF RUTTURE 19,300 PSI
MODULUS OF ELASTICITY 2,470,000 PSI

FRAMING PROPERTIES:
SOUTHERN YELLOW PINE
Fb 1200 PSI
Fv 80 PSI
DECK PLANKS TO BE 3x8 #1 GRADE

NOTES:
1) ALL BOLT HOLES SHALL BE PRE DRILLED
1/16" GREATER THAN DIAMETER OF BOLT
2) ALL BOLTS SHALL BE HDG ASTM A307
GRADE A WITH HEAVY HEX NUTS

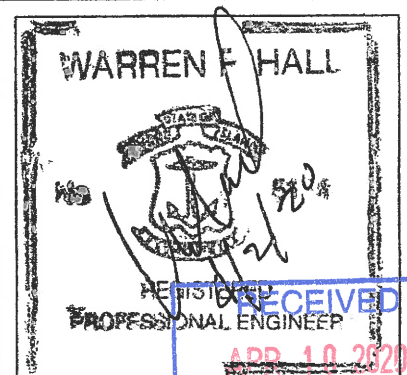
LEGEND
SS: STAINLESS STEEL
HDG: HOT DIPPED GALVANIZED

(A) 3x12: 3-1/2"x11-7/8" POWER LAM BEAMS
Fb=2400psi, E=1,800,000psi, Fv=300psi



LONGITUDINAL SECTION PILE BENT
3/8"=1'-0"

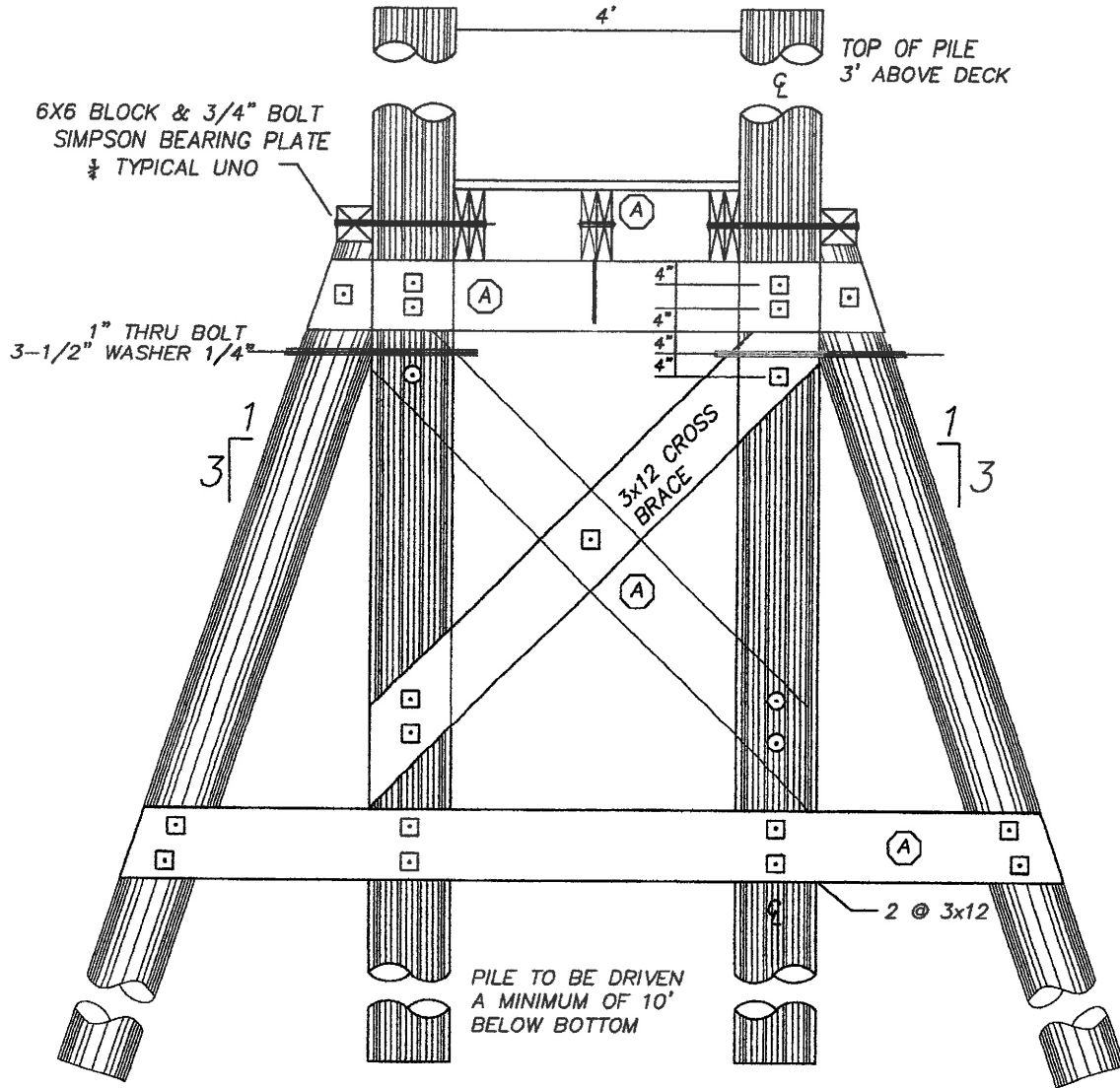
PROPOSED RESIDENTIAL PIER FOR:
JONATHAN JANIKIES
166 WATERWAY
NARRAGANSETT AP NB, LOT 1
NORTH KINGSTOWN, AP 1, LOT 148
BY: WARREN HALL, CIVIL ENGINEER
APRIL 2, 2020 SHEET 7 OF 10



COASTAL RESOURCES
MANAGEMENT COUNCIL

(A) 3x12: 3-1/2"x11-7/8" POWER LAM BEAMS
 F_b=2400psi, E=1,800,000psi, F_v=300psi

ALL PILES SHALL BE GREENHEART
 UNLESS NOTED



TRANSVERSE SECTION PILE BENT
 3/8" = 1'-0"

PROPOSED RESIDENTIAL PIER FOR:
 JONATHAN JANIKIES
 166 WATERWAY
 NARRAGANSETT AP NB, LOT 1
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 BY: WARREN HALL, CIVIL ENGINEER
 APRIL 2, 2020 SHEET 8 OF 10

WARREN F. HALL

REGISTERED PROFESSIONAL ENGINEER

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COASTAL RESOURCES
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3" SC 80
STEEL PIPE
WELD 2 @ 1x12" BOLTS
TO PIPE, PRE DRILL WOOD
PILE TO ACCEPT BOLTS
SEE PLAN FOR LOCATION

HI PRESSURE GROUT FORCED
THROUGH ANNULUS BETWEEN
3" PIPE AND 1-1/2" PIPE

LEDGE

(1"x12")
DOCK WASHER
12"

(1"x12")
DOCK WASHER
6"

10" PILE TIP

1-1/2" SC. 40 PIPE
1-1/8" DRILL STEEL

SET PINS (THREADED)

4'

HI PRESSURE GROUT FORCED
THROUGH ANNULUS BETWEEN
DRILL STEEL & 1-1/2" STEEL
PIPE, GROUT THEN FORCED INTO
ANNULUS BETWEEN STEEL PIPE &
LEDGE FORMATION

2" CARBIDE STEEL ROCK DRILL BIT
(TO REMAIN IN PLACE)

MUD LINE

10'

COFFERDAM AS
NECESSARY TO
PREVENT MUD
FROM ENTERING

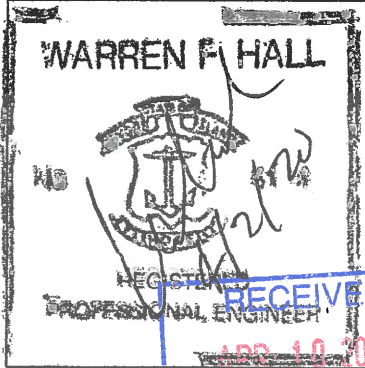
AUGER THROUGH LEDGE
(PILE + 3") SET PILE
AND FILL ANNULUS WITH
RIDOT FILTER STONE
1/2" - 3/8"

LEDGE ANCHOR

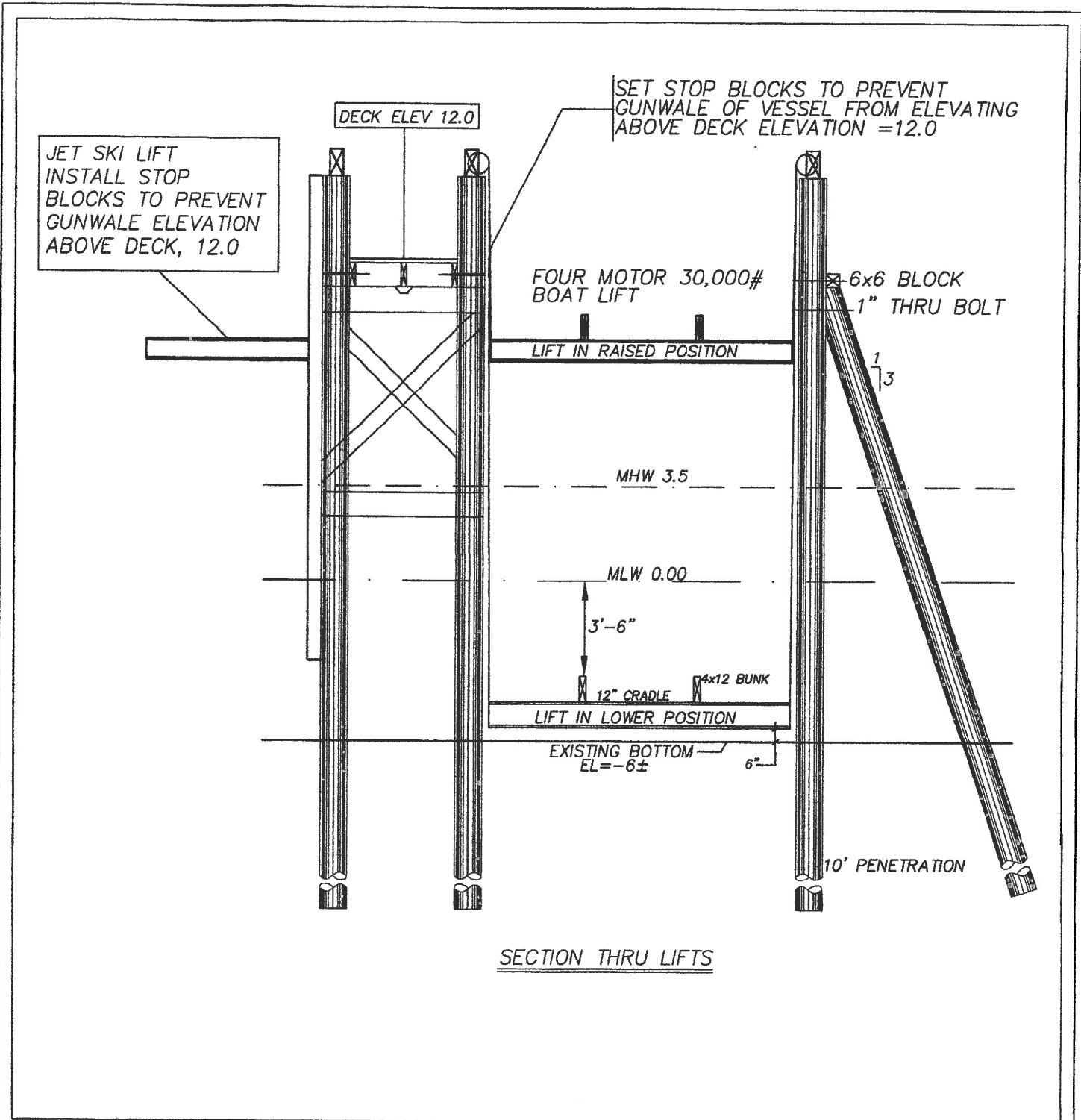
ROCK SOCKET

LEDGE ANCHOR & ROCK SOCKET

JONATHAN JANIKIES
166 WATERWAY
NARRAGANSETT AP NB, LOT 1
NORTH KINGSTOWN, AP 1, LOT 148
BY: WARREN HALL, CIVIL ENGINEER
APRIL 2, 2020 SHEET 9 OF 10



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PROPOSED RESIDENTIAL PIER FOR:
 JONATHAN JANIKIES
 166 WATERWAY
 NARRAGANSETT AP NB, LOT 1
 NORTH KINGSTOWN, AP 1, LOT 148
 BY: WARREN HALL, CIVIL ENGINEER
 APRIL 2, 2020 3/16"=1'-0"

SHEET 10 OF 10

WARREN HALL

RECEIVED

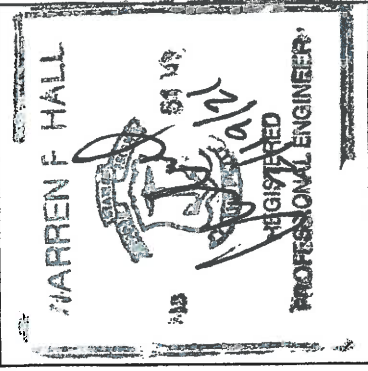
REGISTERED
 PROFESSIONAL ENGINEER

APR 10 2020

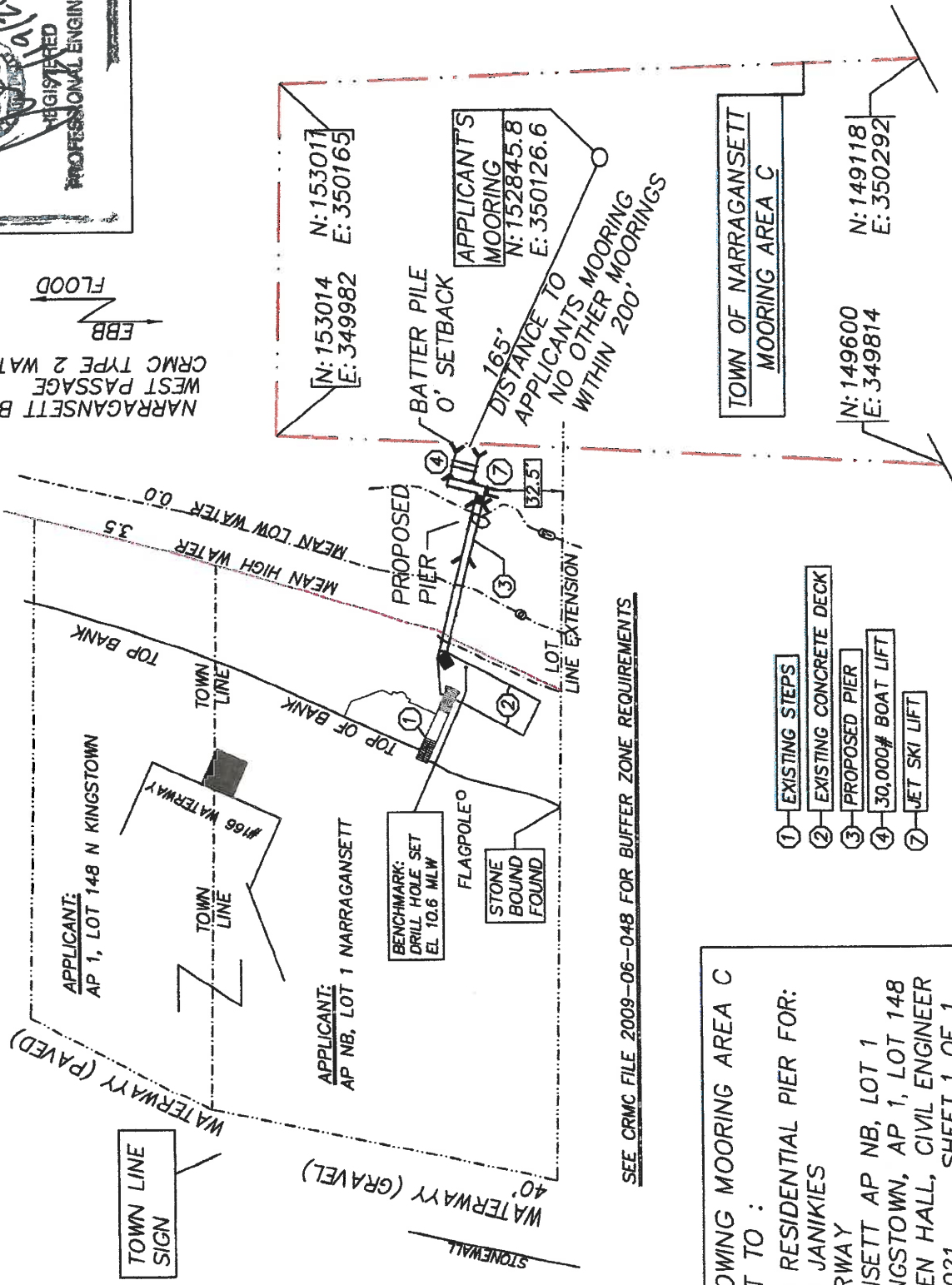
COASTAL RESOURCES
 MANAGEMENT COUNCIL



Scale 1" = 80'



NARRAGANSETT BAY
WEST PASSAGE
CRMC TYPE 2 WATER
EBB
FLOOD



SEE CRMC FILE 2009-06-048 FOR BUFFER ZONE REQUIREMENTS

- ① EXISTING STEPS
- ② EXISTING CONCRETE DECK
- ③ PROPOSED PIER
- ④ 30,000# BOAT LIFT
- ⑦ JET SKI LIFT

PLAN SHOWING MOORING AREA C
ADJACENT TO :
PROPOSED RESIDENTIAL PIER FOR:
JONATHAN JANIKIES
166 WATERWAY
NARRAGANSETT AP NB, LOT 1
NORTH KINGSTOWN, AP 1, LOT 148
BY: WARREN HALL, CIVIL ENGINEER
FEB 19, 2021 SHEET 1 OF 1