

**LOCUS PLAN**  
 PORTION OF  
 NOAA 13221

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FLOOD PLANE ZONE VE17 NAVD  
 = 19.14 MLW REF TRANSECT 54  
 FLOOD INSURANCE STUDY  
 TOWN OF NORTH KINGSTOWN

OWNER & APPLICANT:  
 PLUM BEACH CLUB  
 255 PLUM BEACH ROAD  
 NORTH KINGSTOWN, RI 02879  
 AP 41, LOT 69

ENGINEER:  
 WARREN HALL, CIVIL ENGINEER  
 63 ELMWOOD AVE  
 MIDDLETOWN, RI 02842  
 WARRENHALL@COX.NET  
 401-849-5905

PROPOSED IMPROVEMENTS TO:

PLUM BEACH CLUB  
 AP 41, LOT 69  
 255 PLUM BEACH ROAD  
 NORTH KINGSTOWN, RI 02874  
 BY: WARREN HALL, CIVIL ENGINEER  
 MARCH 29, 2022 SHEET 1 OF 8

**RECEIVED**  
 APR 12 2022  
 COASTAL RESOURCES  
 MANAGEMENT COUNCIL

WARREN HALL  
  
 REGISTERED  
 PROFESSIONAL ENGINEER

THIS AREA NOT A PUBLIC  
RIGHT OF WAY BY DEDICATION  
REFERENCE LAND EVIDENCE  
BOOK 376, PAGE 129

BENCHMARK: SET SPIKE  
EL=6.13' MLW  
N: 162172.1  
E: 350953.2

MOORING AREA  
CORNER SET  
100' OFF MHW  
N: 162192.0  
E: 351605.0

MOORING AREA 16  
N. KINGSTON HMP



BEGIN PIER  
N: 162079.9  
E: 350890.5

DIRECTION  
77°25'09"E

FIXED TIMBER PIER  
4'x105'

EXISTING FLOATS  
2@ 4.5'x16'

2@ 8'x16'

196' TO  
CLOSEST MRG



HTL  
5.0

MHW  
3.5

MLW  
0.0

SWIM AREA  
BUOY LINE

NARAGANSETT BAY  
WEST PASSAGE  
CRMC TYPE 2 WATER



EXISTING CONDITIONS  
PLAN VIEW  
1"=50'

SPIKE SET:  
N: 161927.8  
E: 350891.1

N: 161192.0  
E: 351005.0

STORM DRAIN



Scale 1" = 50'

EXISTING CONDITIONS

MODIFICATION

255 PLUM BEACH ROAD  
NORTH KINGSTOWN, RI  
AP 41. LOT 69  
BY: WARREN HALL, CIVIL ENGINEER  
MARCH 29, 2022 SHEET 2 OF 8

RECEIVED

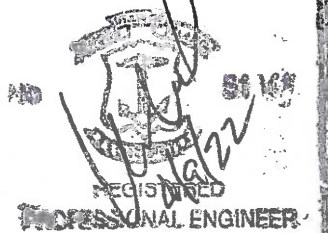
APR 12 2022

COASTAL RESOURCES  
MANAGEMENT COUNCIL

LEGEND

- HTL HIGH TIDE LINE
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- AL ASSESSORS LINE
- ALE ASSESSORS LINE EXTENSION
- FND FOUND
- x-6.6 SPOT GRADE
- MOORING FIELD

WARREN HALL







BENCHMARK: SET SPIKE  
 EL=6.13' MLW  
 N: 162172.1  
 E: 350953.2

N: 162192.0  
 E: 351105.5

MOORING AREA  
 CORNER SET  
 100' OFF MHW

MOORING AREA 16  
 N. KINGSTON HMP

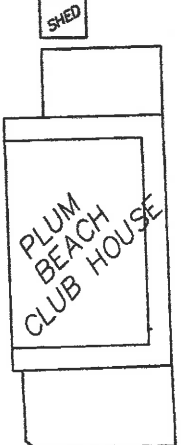
EXISTING PIER TO BE  
 RE CONSTRUCTED IN  
 ACCORDANCE WITH  
 ASSENT 2021-02-053  
 AND MODIFIED AS SHOWN

DINGHY FLDATS:  
 REPLACE 4.5'x32'  
 WITH 4.5'x28'

REPLACE 2 @ 8'x16'  
 WITH 2 @ 9'x17' MOVE  
 PILES 5' SEAWARD

BEGIN PIER  
 SAME LOCATION  
 AND DIRECTION  
 N: 162079.9  
 E: 350890.5

77°25'09"E  
 DIRECTION



HTL 5.0  
 MHW 3.5

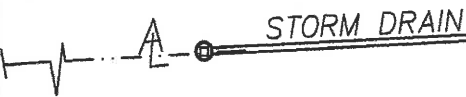
MLW 0.0

PROPOSED IMPROVEMENTS  
 PLAN VIEW  
 1"=50'

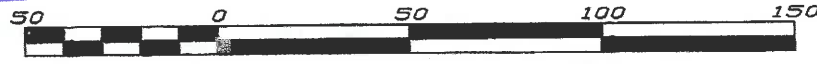
PROVIDE BLOCKS  
 TO KEEP FLOAT  
 FROM RESTING ON  
 BOTTOM

RECEIVED  
 APR 12 2022  
 COASTAL RESOURCES  
 MANAGEMENT COUNCIL

N: 161192.0  
 E: 351105.0



EXISTING FLOAT AREA=336 SF  
 PROPOSED FLOAT AREA = 589 SF



**PROPOSED IMPROVEMENTS**

PLUM BEACH CLUB  
 255 PLUM BEACH RD  
 NORTH KINGSTOWN, RI  
 AP 41, LOT 69  
 BY: WARREN HALL, CIVIL ENGINEER  
 MARCH 29, 2022 SHEET 3 OF 8

- (A) 4'x104' FIXED PIER
  - (B) 22' RAMP
  - (C) REPLACE 2 @ 4.5x16  
 WITH 1 @ 4.5x16 &  
 1 @ 4.5x12
  - (D) REPLACE EX 2@ 8'x16'  
 WITH 2@ 9'x17' FLOATS
- FLOAT PILES  
 TO BE GREENHEART

WARREN HALL

REGISTERED  
 PROFESSIONAL ENGINEER

MOORING AREA 16 TOWN OF NK  
 NARAGANSETT BAY  
 WEST PASSAGE  
 CRMC TYPE 2 WATER

SWIM AREA  
 BUOY LINE

SWIM  
 FLOAT

BUOY LINE

191' ±  
 TO MRG

FLOOD  
 EBB

159'

98'

65'

45'

HTL 5.0  
 MHW 3.5

BEACH

BEACH

ALE

ALE

BEGIN PIER  
SAME LOCATION  
AND DIRECTION  
N: 162079.9  
E: 350890.5

RAMP  
77°25'09"E

RE LOCATE PILE TO  
PROVIDE MIN 6" WATER  
DEPTH AT LOW TIDE  
UNDER FLOAT, PROVIDE 6x6 BLOCK

N: 162049.6  
E: 351045.6

N: 162040.8  
E: 351043.7

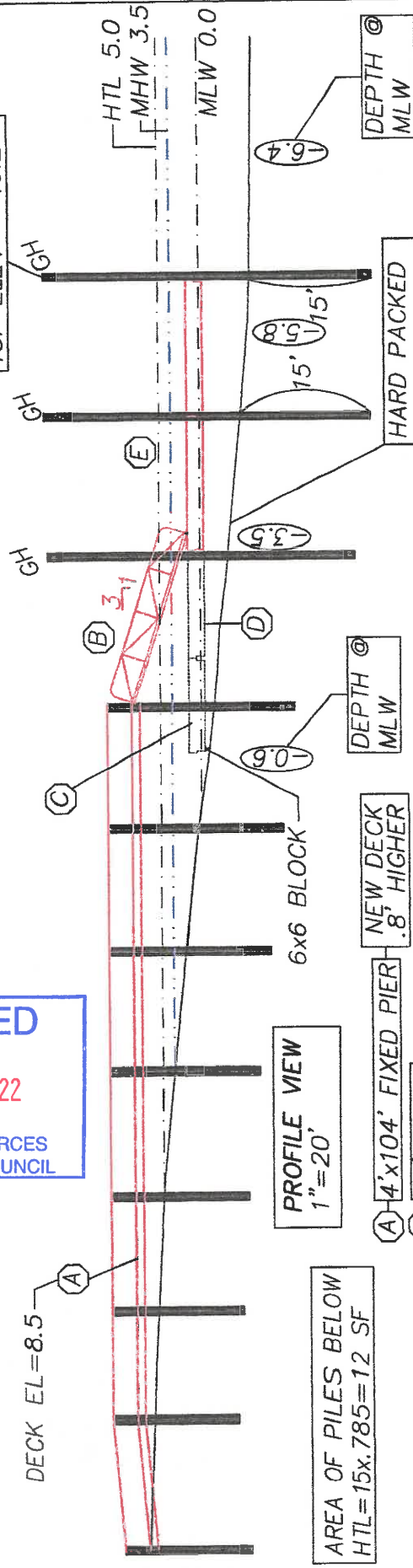


PLAN VIEW  
1"=20'

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MANAGEMENT COUNCIL

DECK EL=8.5

FLOAT PILE  
TOP ELEV = 19.2



PROFILE VIEW  
1"=20'

AREA OF PILES BELOW  
HTL=15x.785=12 SF

A) 4'x104' FIXED PIER  
B) 22' RAMP  
C) NEW DECK .8' HIGHER

REPLACE 2 @ 4.5x16  
WITH 1 @ 4x16 &  
1 @ 4x12

REPLACE EX 2 @ 8'x16'  
WITH 2 @ 9'x17' FLOATS

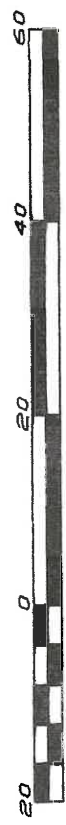
PROVIDE BLOCKS  
TO KEEP FLOAT  
FROM RESTING ON  
BOTTOM

HARD PACKED  
SANDY BOTTOM

DEPTH @  
MLW

DEPTH @  
MLW

FLOAT PILES  
TO BE GREENHEART



Scale 1" = 20'

**PROPOSED IMPROVEMENTS**

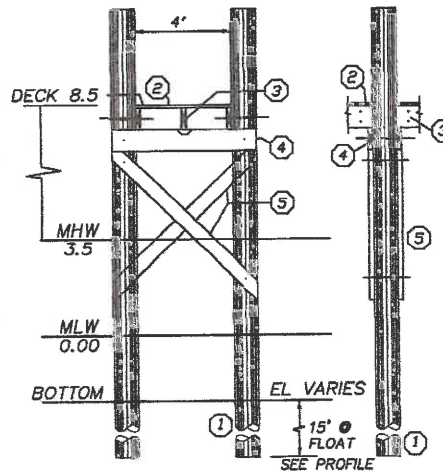
PLUM BEACH CLUB  
255 PLUM BEACH RD  
NORTH KINGSTOWN, RI  
AP 41, LOT 69  
BY: WARREN HALL, CIVIL ENGINEER  
MARCH 29, 2022, SHEET 4 OF 8



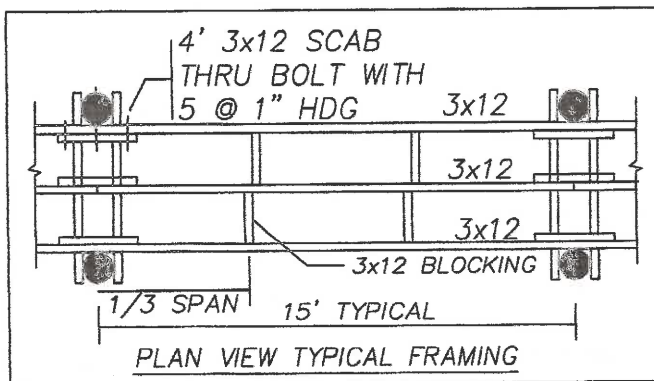
## PILE DRIVING NOTE:

A "soft start" is required to allow animals an opportunity to leave the project vicinity before sound pressure levels increase. In addition to using a soft start at the beginning of the work day for pile driving, one must also be used at any time following cessation of pile driving for a period of 30 minutes or longer. For impact pile driving: pile driving will commence with an initial set of three strikes by the hammer at 40% energy, followed by a one minute wait period, then two subsequent 3-strike sets at 40% with one minute waiting periods, before initiating continuous impact driving.

- ① 10" TIP 12-3-10 CCA TREATED WOOD PILES TREAT TO 2.5 PCF (1.0 ALLOWED WITH OWNER CONSENT) GREENHEART AT FLOAT
- ② 2x6 DECKING ACQ TREATED TO .6 PCF FASTEN TO STRINGERS WITH 3 @ 3-1/2" NO. 10 316 STAINLESS STEEL SCREWS
- ③ 3x12 STRINGER, ACQ TREATED THRU BOLT AT PILE FASTEN MIDDLE STRINGER WITH SIMPSON H-1 HURRICANE ANCHOR
- ④ 2-3x12 CAP BEAM, ACQ TREATED TO .6 PCF
- ⑤ 3x10 CROSS BRACE, ACQ TREATED TO 2.5 PCF



TYPICAL SECTION 1/8"=1'-0"



### GENERAL NOTES:

- 1) ALL BOLTS, CONNECTORS, WASHERS, NAILS, ECT SHALL BE HOT DIPPED GALVANIZED
- 2) CONTRACTOR SHALL ADHERE TO ALL OSHA RULES AND REGULATIONS THROUGHOUT ALL PHASES OF CONSTRUCTION
- 3) CONTRACTOR SHALL BE AWARE THAT THE STRATA INTO WHICH THESE PILES ARE TO BE DRIVEN MAY REQUIRE DRILLING TO ENSURE A MINIMUM 10' PENETRATION BELOW EXISTING GRADE

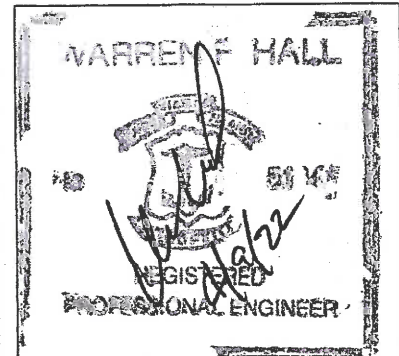
### PROPOSED IMPROVEMENTS

PLUM BEACH CLUB  
 255 PLUM BEACH RD  
 NORTH KINGSTOWN, RI  
 AP 41, LOT 69  
 BY: WARREN HALL, CIVIL ENGINEER  
 MARCH 29, 2022 SHEET 5 OF 8

RECEIVED

APR 12 2022

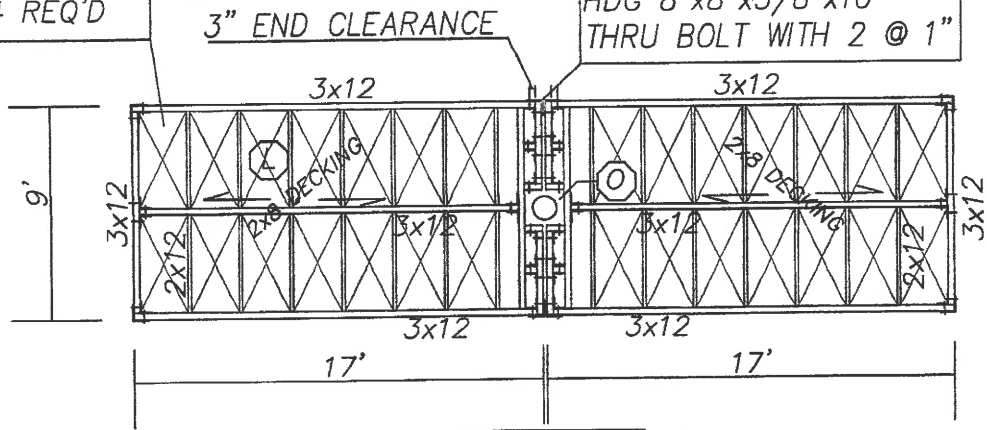
COASTAL RESOURCES  
 MANAGEMENT COUNCIL



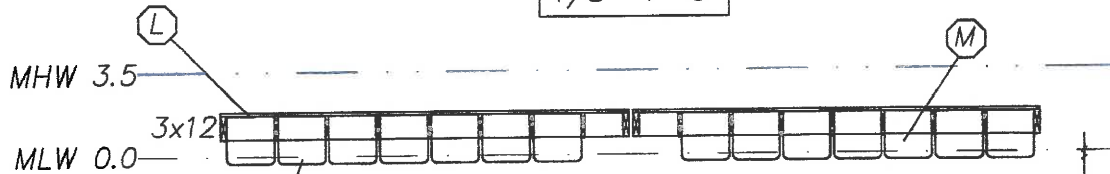
2x8 DECKING ACQ TREATED TO .6 PCF  
FASTEN TO STRINGERS WITH 3 @ 3-1/2"  
NO. 10 316 STAINLESS STEEL SCREWS

ROTO MOLD 12x24x48  
POLY ENCAPSULATED FLOAT  
433# CAPACITY, 14 REQ'D

CORNER PLATE  
HDG 8"x8"x3/8"x10"  
THRU BOLT WITH 2 @ 1"



PLAN VIEW  
1/8"=1'-0"



PROFILE VIEW  
1/8"=1'-0"

DEAD LOAD  
DRAFT = 4"

ROTO MOLD 12x24x48  
POLY ENCAPSULATED FLOAT  
433# CAPACITY, 14 REQ'D

SQUARE ROLLER PILE GUIDE

FLOAT DESIGN: USE 14@24x48x12 ROTO MOLD 433# FLOATS  
 $DL=153 SF \times 10PSF + (14 \times 33) = 1992\#$   
 $LL=153 SF \times 20PSF = 3060\#$   
 $DL \text{ DRAFT} = 1992 / 6062 = .33' (4")$   
 $LL \text{ DRAFT} = 3060 / 6062 = .5' (6")$   
 $TOTAL \text{ DRAFT} = 5052 / 6062 = .83' (10")$   
 $400\# \text{ POINT LOAD} = 400 / 866 = .46' (5")$

BUOYANCANCY:  
14X433=6062#

PROPOSED IMPROVEMENTS

PLUM BEACH CLUB  
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MARCH 29, 2022 SHEET 6 OF 8

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APR 12 2022  
COASTAL RESOURCES  
MANAGEMENT COUNCIL

WARREN HALL

REGISTERED  
PROFESSIONAL ENGINEER





50 0 50 100 150

Scale 1" = 50'

**CONSTRUCTION ACCESS:**

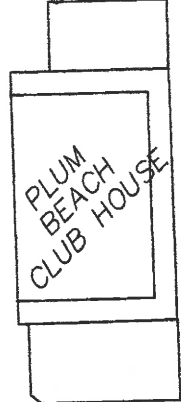
- 1) OVERLAND BY PLUM BEACH ROAD
- 2) OVER WATER

STONE PATH TO PARKING LOT, STAGING AREA FOR DISPOSAL

BEACH & PATH AREA RESTORE TO ORIGINAL GRADES, CLEAN ALL DEBRIS

QWTS

SHED



PLUM BEACH CLUB HOUSE

BEACH

BEACH 5

0

1

2

3

4

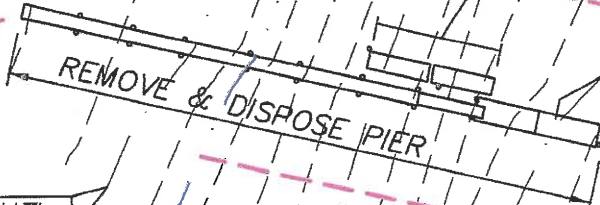
5

6

R&D 2@ 4.5'x16' FLOATS

TURBIDITY FENCE

R&D 2@ 8'x16' FLOATS



HTL 5.0

MHW 3.5

MLW 0.0

**DEMOLITION PLAN**

1"=50'

NARAGANSETT BAY  
WEST PASSAGE  
CRMC TYPE 2 WATER  
EBB → FLOOD ←

**GENERAL NOTES:**

- 1) ALL DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS
- 2) PILES SHALL BE CUT OFF BELOW MARINE BOTTOM GRADE OR COMPLETELY REMOVED
- 3) TURBIDITY FENCE SHALL STAY IN PLACE AND BE MAINTAINED BY CONTRACTOR UNTIL EXISTING PIER IS COMPLETELY REMOVED

**LEGEND**

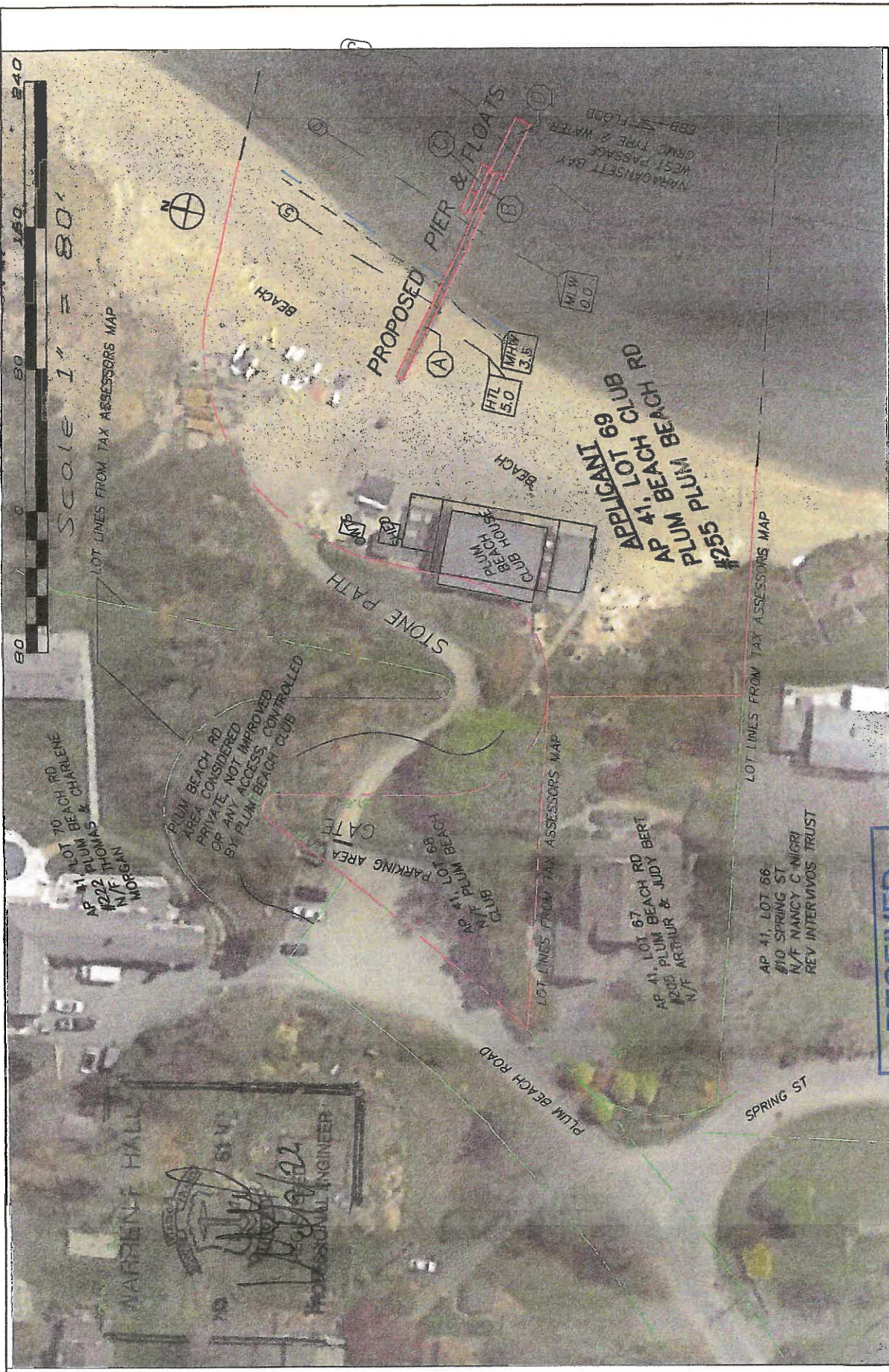
- R&D REMOVE AND DISPOSE
- TURBIDITY FENCE

**DEMOLITION PLAN**

PLUM BEACH CLUB  
 255 PLUM BEACH RD  
 NORTH KINGSTOWN, RI  
 AP 41, LOT 69  
 BY: WARREN HALL, CIVIL ENGINEER  
 MARCH 29, 2022 SHEET 7 OF 8







- (A) 4'x104' FIXED PIER
- (B) 22' RAMP
- (C) 4'x28' FLOAT
- (D) 2 @ 9'x17' FLOATS

RECEIVED  
 APR 12 2024  
 AERIAL PHOTO WITH PROPOSED IMPROVEMENTS  
 1" = 80'  
 COASTAL RESOURCES  
 MANAGEMENT COUNCIL

PLUM BEACH CLUB  
 255 PLUM BEACH RD  
 NORTH KINGSTOWN, RI  
 AP 41, LOT 69  
 BY: WARREN HALL, CIVIL ENGINEER  
 MARCH 29, 2022 SHEET 8 OF 8