



LOCATION

N.T.S.

Site Address 920 NE 27 AVENUE, POMPANO BEACH FL 33062

Property Owner AYALA, RUBEN & MARTA

AYALA FAM TR

Mailing Address 920 NE 27 AVE POMPANO BEACH FL 33062

ID # 4843 31 21 0740

Abbreviated Legal Description HARBOR VILLAGE

SEC F 43-15 B LOT 31 BLK 17

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OSCAR M. BERMUDEZ P.E. Date:
Reg. Florida No. 55141

LINDA RIFFLE
DRAFTING & DESIGN
772-834-1906
LindaDraft1@att.net

B&B Consulting Engineers
2237 Woods Edge Circle
Orlando Florida 32817
(772) 708-7785

JOB NAME: AYALA RESIDENCE
920 NE 27 AVENUE
POMPANO BEACH FL. 33062

RAISED SEAWALL CAP, NEW CONCRETE DOCK
& BOAT LIFT

Hydros Marine Construction
Phone: 561-866-2896
Ryan@HydrosMC.com
Stae Licensed and Insured

DATE:
11/21/2024

REVISION:

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GENERAL NOTES

GENERAL

ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.

IT IS THE INTENT OF THESE PLANS AND THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL AND BUILDING PERMIT ISSUED FOR THIS PROJECT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE AND GOVERN HIMSELF BY ALL PROVISIONS OF THESE PERMITS.

THE WORK SPECIFIED HEREIN HAS BEEN DESIGNED & ALL WORK SHALL BE IN ACCORDANCE WITH STRUCTURAL PROVISIONS OF THE 8TH EDITION 2023 FLORIDA BUILDING CODE.

CONCRETE

1. ALL CONCRETE (EXCEPT PRECAST PILES) SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI. AT THE END 0=28 DAYS, FOUR (4) CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH 50 CUBIC YARD OR FRACTION THEREOF AND SHALL BE TESTED AT 3.7 & 28 DAYS. SLUMP SHALL NOT EXCEED 4" (± 1 ") MAX W/C RATIO+0.40.
2. ALL REINFORCEMENT SHALL BE 60,000 PSI MINIMUM YIELD NEW BILLET STEEL IN ACCORDANCE WITH ASTM A615 GRADE 60. ALL BAR LAPS SHALL BE A MINIMUM OF 36 BAR DIAMETERS, PLACING OF REINFORCEMENT SHALL CONFORM TO THE LATEST ACI CODE AND MANUAL OF STANDARD PRACTICE.
3. ALL CONCRETE SHALL BE PLACED WITHIN 90 MINUTES FROM BATCH TIME, AND VIBRATED AS REQUIRED BY THE ACI MANUAL OF CONCRETE PRACTICE. TEMPERATURE OF CONCRETE AT TIME OF PLACEMENT SHALL BE BETWEEN 75° AND 100°F.
4. ALL CONCRETE DECK SURFACES SHALL HAVE A LIGHT BROOM FINISH.
5. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" OR AS SHOWN ON THE PLANS.

HARDWARE

1. ALL MISCELLANEOUS STEEL COMPONENTS, BOLTS AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED ON PLANS.

PILE NOTES:

12"x12" PRECAST CONCRETE PILES:

5000-PSI MIN. CONCRETE w/ (4) $\frac{7}{16}$ DIA. 270-KSI ASTM A416 LOW-LAX STRANDS.

MINIMUM PILE LENGTH=34' BELOW EXISTING STREET LEVEL OR REFUSAL

PILE CAPACITY COMPRESSION / TENSION / LATERAL (TONS): 25 / 7 / 1

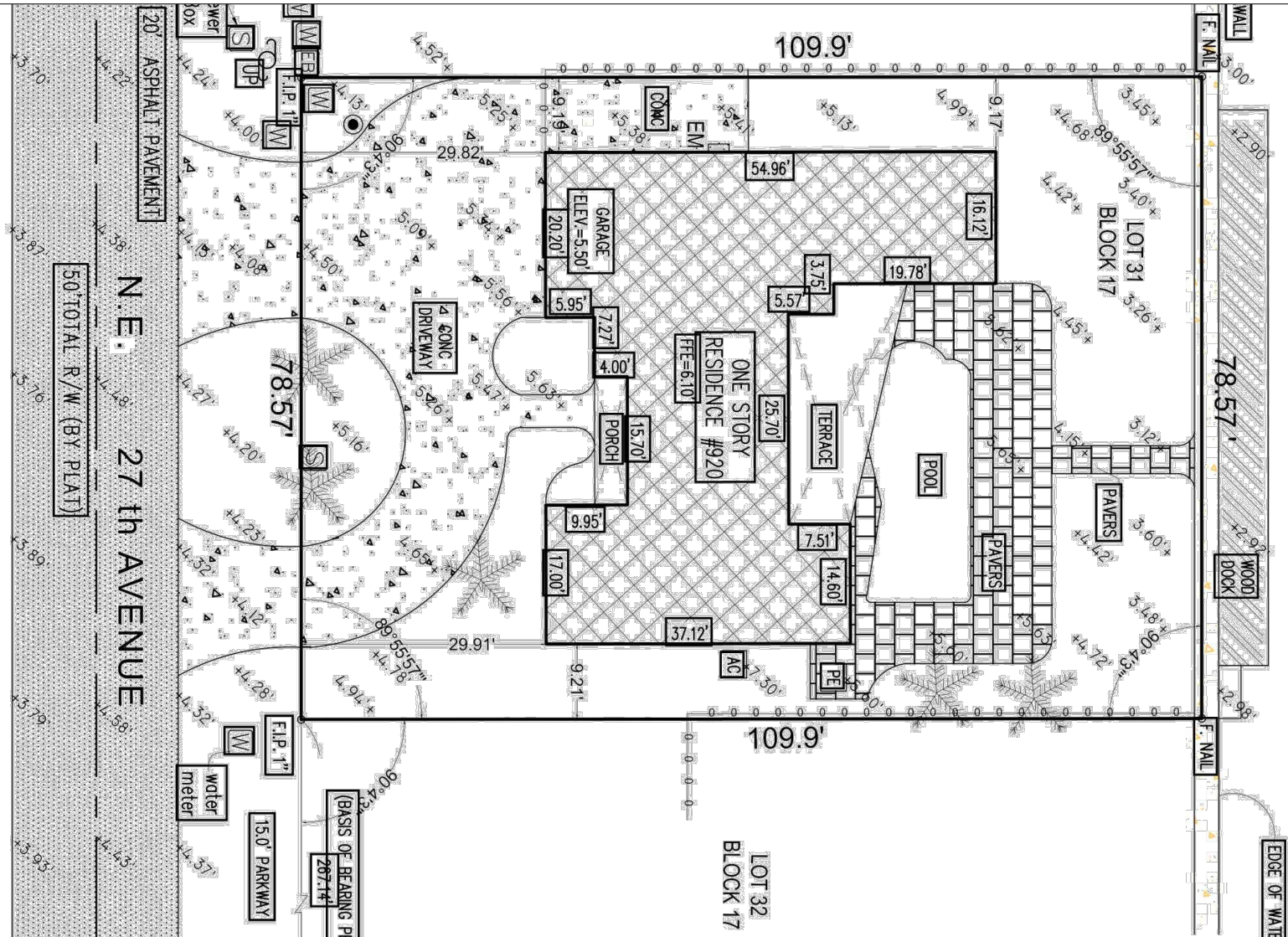
MISCELLANEOUS

1. FASTENERS EMBEDDED INTO CONCRETE STRUCTURES SHALL BE ANCHORED WITH TWO-PART EPOXY ADHESIVE (RAWL @CHEM-FAST CARRIDGE SYSTEM OR EQUAL). ANCHOR HOLES SHALL BE DRILLED TO 1/8" GREATER THAN THE SPECIFIED FASTENER SIZE. HOLES SHALL BE DRILLED TO A MINIMUM DEPTH SHOWN ON THE PLANS & SHALL BE THOUGHLY CLEANED OUT AND DRY PRIOR TO INJECTION OF EPOXY.

TURBIDITY BARRIER

APPROVED TURBIDITY BARRIERS SHALL REMAIN IN PLACE DURING ALL PHASES OF IN WATER CONSTRUCTION.

LAKE CAPRI



SITE PLAN SCALE 1"=20"

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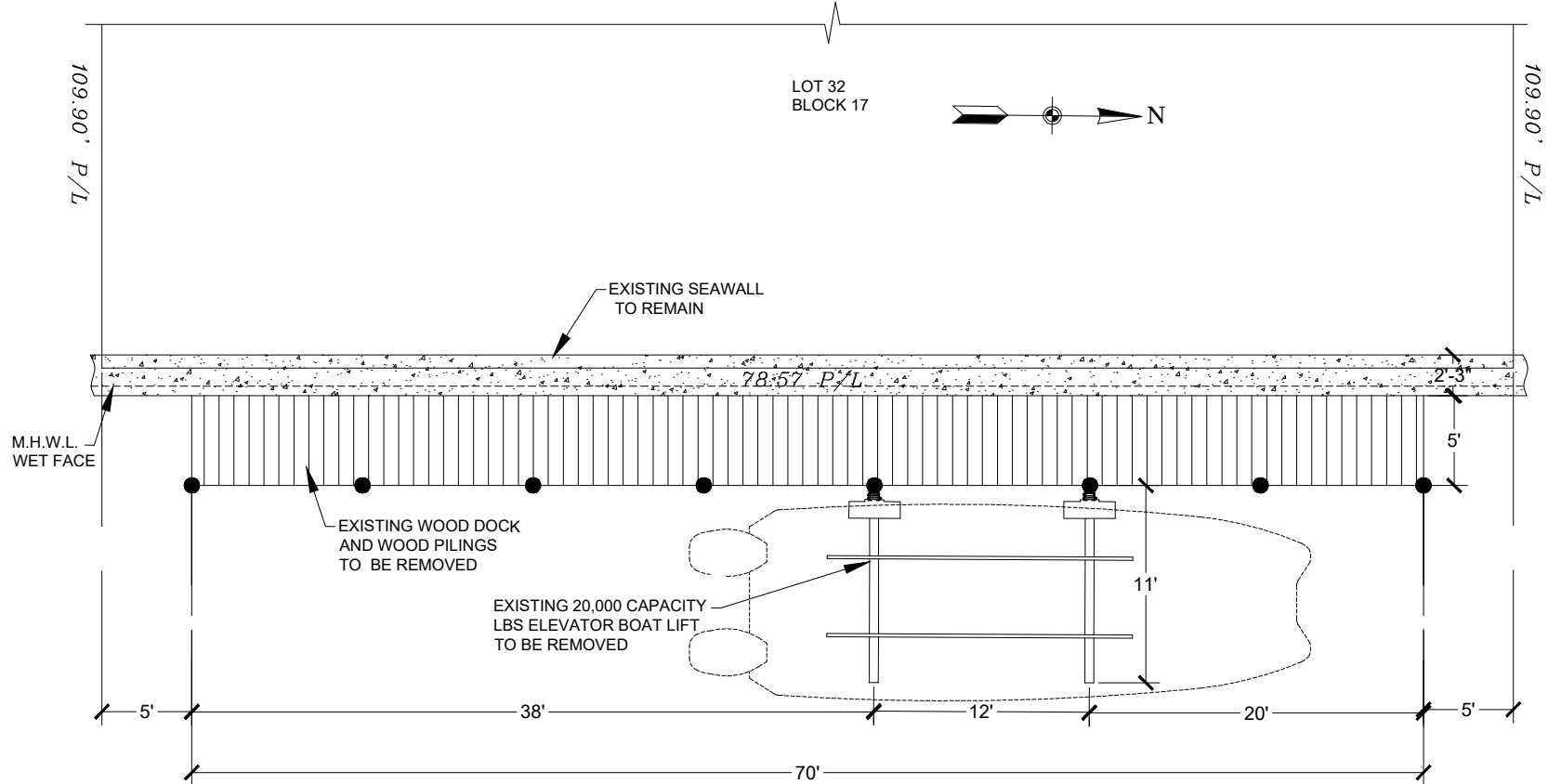
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LAKE CAPRI
(±350' WIDE BODY WATER)

EXISTING SITE CONDITIONS

SCALE 1"=10"

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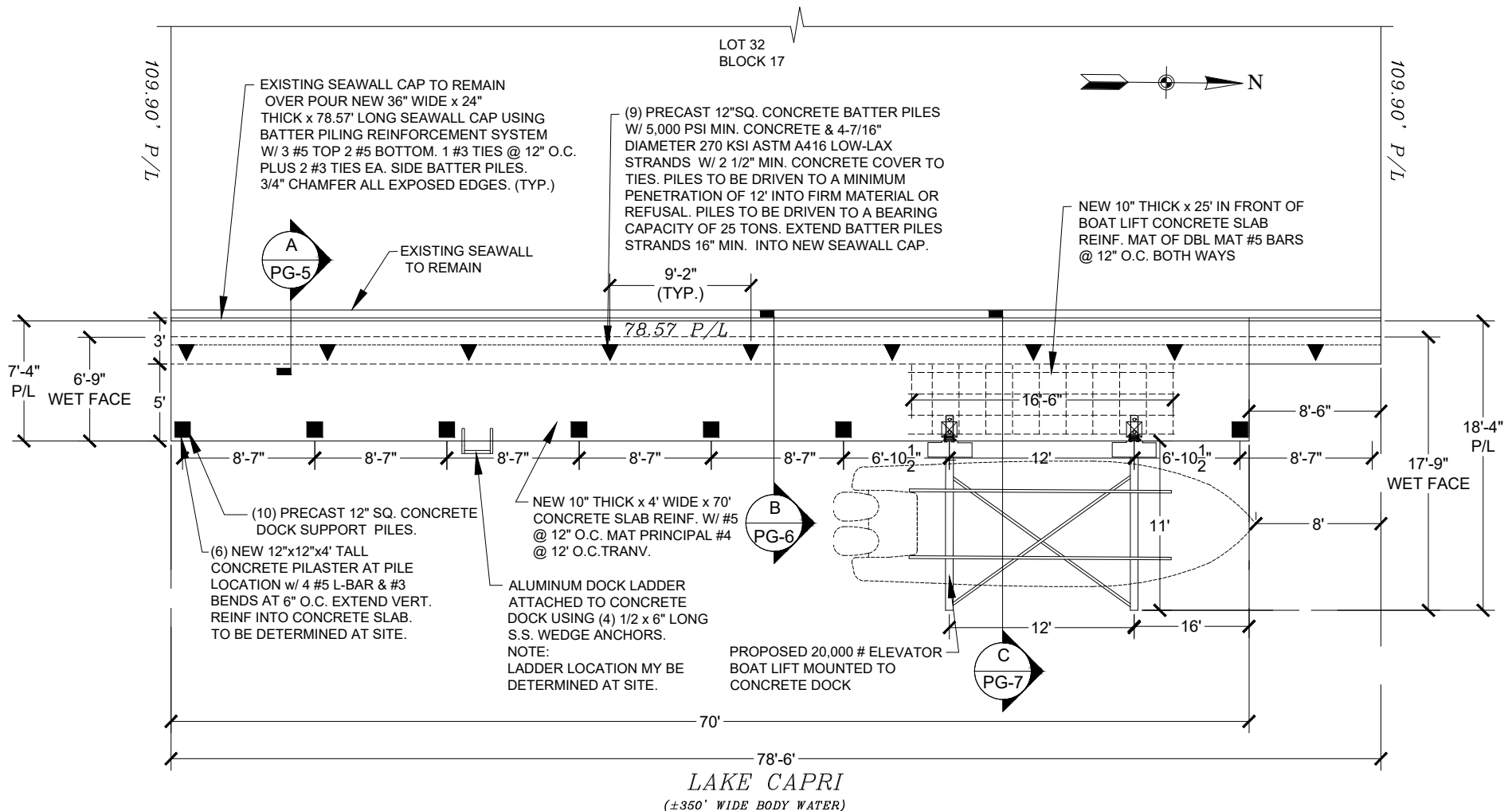
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PROPOSED PLAN VIEW

SCALE 1"=10"

DESIGN WINDLOAD INFORMATION

CODE: FBCR 2023 8th EDITION
ASCE 7-16
Wind Speed: 175 MPH, 3 Second Gust
Exposure "D"
Importance Factor: 1.0
Internal Pressure Coeff.: 0.00
Height: 6ft. Mean

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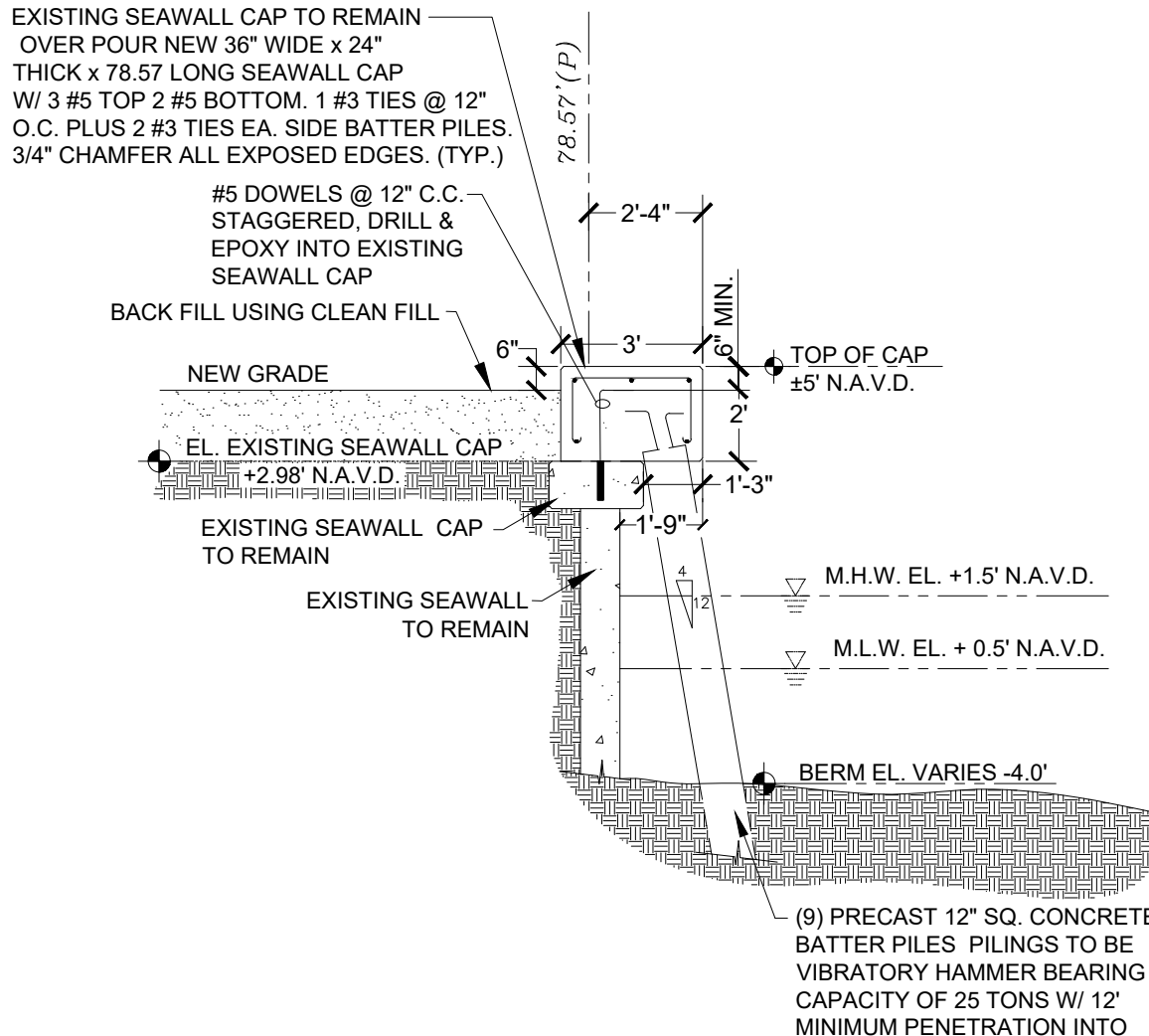
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SECTION -A

A SEAWALL CAP DETAIL

SCALE 1/4"=1'

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EXISTING SEAWALL CAP TO REMAIN
OVER POUR NEW 36" WIDE x 24"
THICK x 78.57' LONG SEAWALL CAP
W/ 3 #5 TOP 2 #5 BOTTOM. 1 #3 TIES @ 12"
O.C. PLUS 2 #3 TIES EA. SIDE BATTER PILES.
3/4" CHAMFER ALL EXPOSED EDGES. (TYP.)

#5 DOWELS @ 12" C.C.
STAGGERED, DRILL &
EPOXY INTO EXISTING
SEAWALL CAP

BACK FILL USING CLEAN FILL

NEW GRADE

EL. EXISTING SEAWALL CAP

+2.98' N.A.V.D.
EXISTING SEAWALL CAP
TO REMAIN

EXISTING SEAWALL
TO REMAIN

NEW 10" THICK x 70' CONCRETE SLAB REINF.
MAT OF #5 BARS @ 12" O.C. BOTH WAYS

(6) NEW 12"x12"x4' TALL
CONCRETE PILASTER AT PILE
LOCATION w/ 4 #5 L-BAR & #3
BENDS AT 6" O.C. EXTEND VERT.
REINF INTO CONCRETE SLAB.
LOCATION
TO BE DETERMINED AT SITE

TOP OF DOCK
±5' N.A.V.D.

M.H.W. EL. +1.5' N.A.V.D.

M.L.W. EL. +0.5' N.A.V.D.

BERM EL. VARIES -4.0'

(9) PRECAST 12" SQ. CONCRETE
BATTER PILES PILINGS TO BE
VIBRATORY HAMMER BEARING
CAPACITY OF 25 TONS W/ 12'
MINIMUM PENETRATION INTO

(10) PRECAST 12" SQ. CONCRETE DOCK SUPPORT PILES
PILES TO BE DRIVEN TO A MINIMUM PENETRATION OF 12'
INTO FIRM MATERIAL OR REFUSAL. PILES TO BE DRIVEN
TO A BEARING CAPACITY OF 25 TONS.

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B
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SECTION -B CONCRETE DOCK DETAIL (TYP.)

SCALE 1/4"=1'

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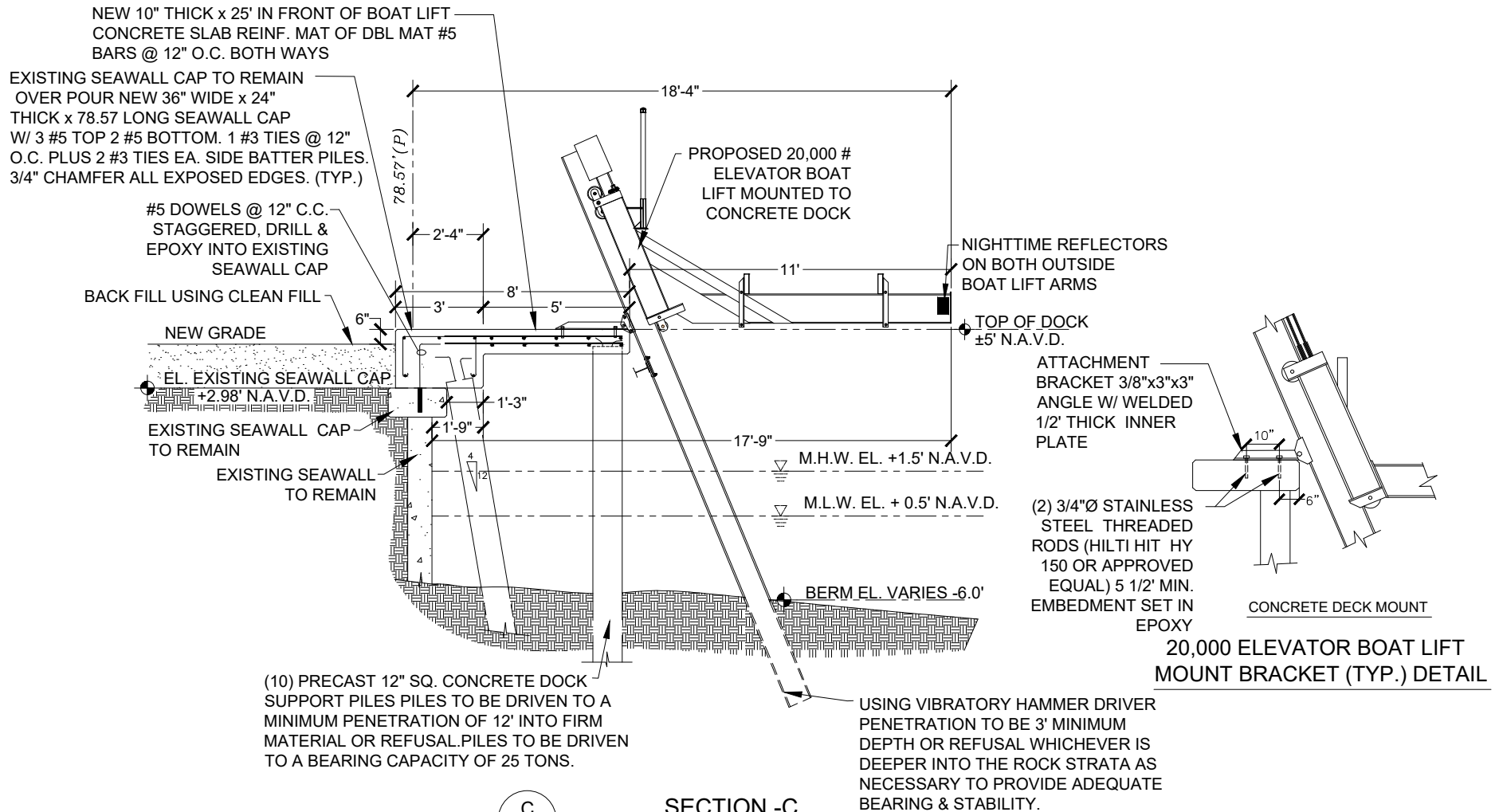
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C
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SECTION -C
BOAT LIFT DETAIL (TYP.)
SCALE 3/16"=1'

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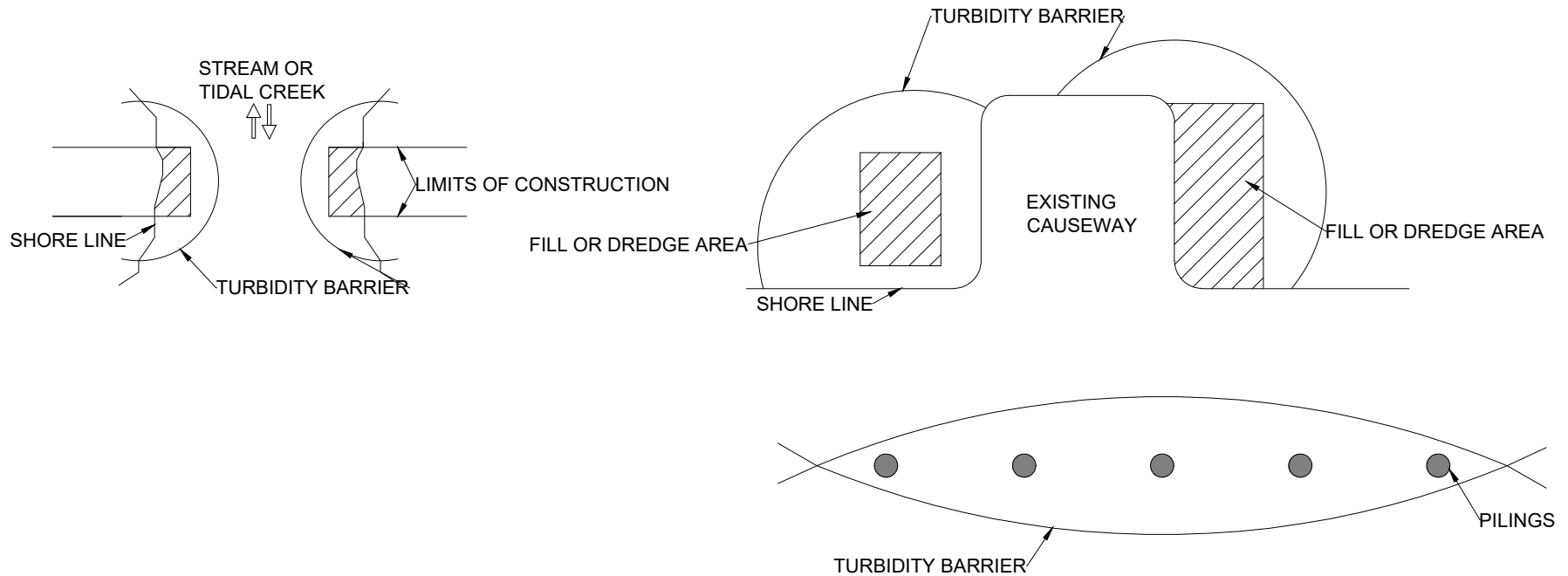
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NOTES

1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH
2. NUMBER AND SPACING DEPENDANT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATION MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.
6. TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING OF STAKED TYPES.
7. BARRIER TYPE WILL BE AT THE CONTRACTOR'S DECISION U.N.O.
8. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY ENGINEER.
9. N.P.D.E.S. INSPECTION TO BE CALLED FOR BY ENGINEER TO VERIFY TURBIDITY BARRIER.

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TURBIDITY CURTAIN DETAIL N.T.S.

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