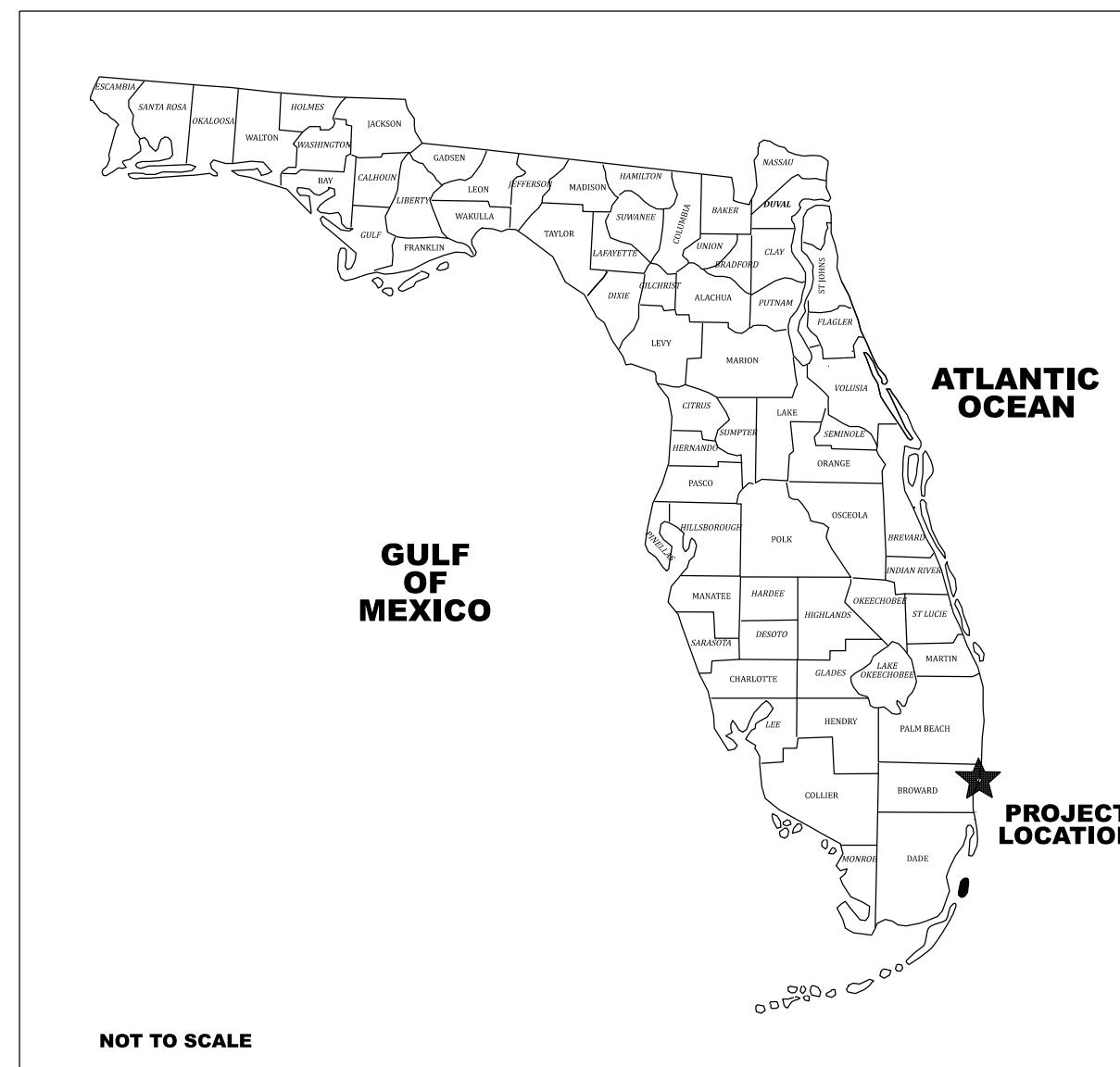


PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

HILLSBORO INLET PARK (A.K.A ROY ROGERS PARK) BULKHEAD, DOCK & PROMENADE IMPROVEMENTS

CITY OF POMPANO BEACH BROWARD COUNTY, FLORIDA

JUNE 2025



LOCATION MAP OF FLORIDA



AERIAL PHOTOGRAPH



VICINITY MAP

PREPARED BY:



**SEA DIVERSIFIED, INC.
160 CONGRESS PARK DRIVE, #114
DELRAY BEACH, FLORIDA 33445
PH 561-243-4920**

PREPARED FOR



**CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060**

REX HARDIN	MAYOR AT LARGE
ALISON FOURNIER	VICE MAYOR, DISTRICT 3
AUDREY FESIK	COMMISSIONER, DISTRICT 1
RHONDA SIGERSON-EATON	COMMISSIONER, DISTRICT 2
BEVERLY PERKINS	COMMISSIONER, DISTRICT 4
DARLENE SMITH	COMMISSIONER, DISTRICT 5

SHEET INDEX

SHEET NO.	SHEET TITLE
C-1	COVER SHEET
A-1	AERIAL
A-2	AERIAL PROJECT OVERLAY
B-1	BATHYMETRY
P-1	SITE PLAN
P-2	PLAN DETAIL SOUTH
P-3	PLAN DETAIL NORTH
BH-1	BULKHEAD PLAN SOUTH
BH-2	BULKHEAD PLAN NORTH
D-1	MARGINAL DOCK & PIER PILE LAYOUT
D-2	MARGINAL DOCK & PIER ALUMINUM FRAME LAYOUT
S-1	TYPICAL SECTION DETAILS
S-2	TYPICAL SECTION DETAILS
S-3	TYPICAL SECTION DETAILS
S-4	TYPICAL SECTION & BULKHEAD CAP DETAILS
S-5	TYPICAL DOCK & PIER DETAILS
M-1	STANDARD DETAILS
M-2	CITY STANDARD DETAILS
U-1	LIGHTING, WATER & FIRE
L-1	LANDSCAPE PLAN
N-1	NOTES & SPECIFICATIONS
E-1	ELECTRICAL UPGRADES PLAN (RONALD L. LEVINSON, P.E.)
E-2	ELECTRICAL UPGRADES PLAN (RONALD L. LEVINSON, P.E.)

REVISIONS:

Table 1. Summary of the results.

AD, PROMENADE, MÉMOIRE

BULKI & DOCUMENTS

Pompano Beach
Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33064

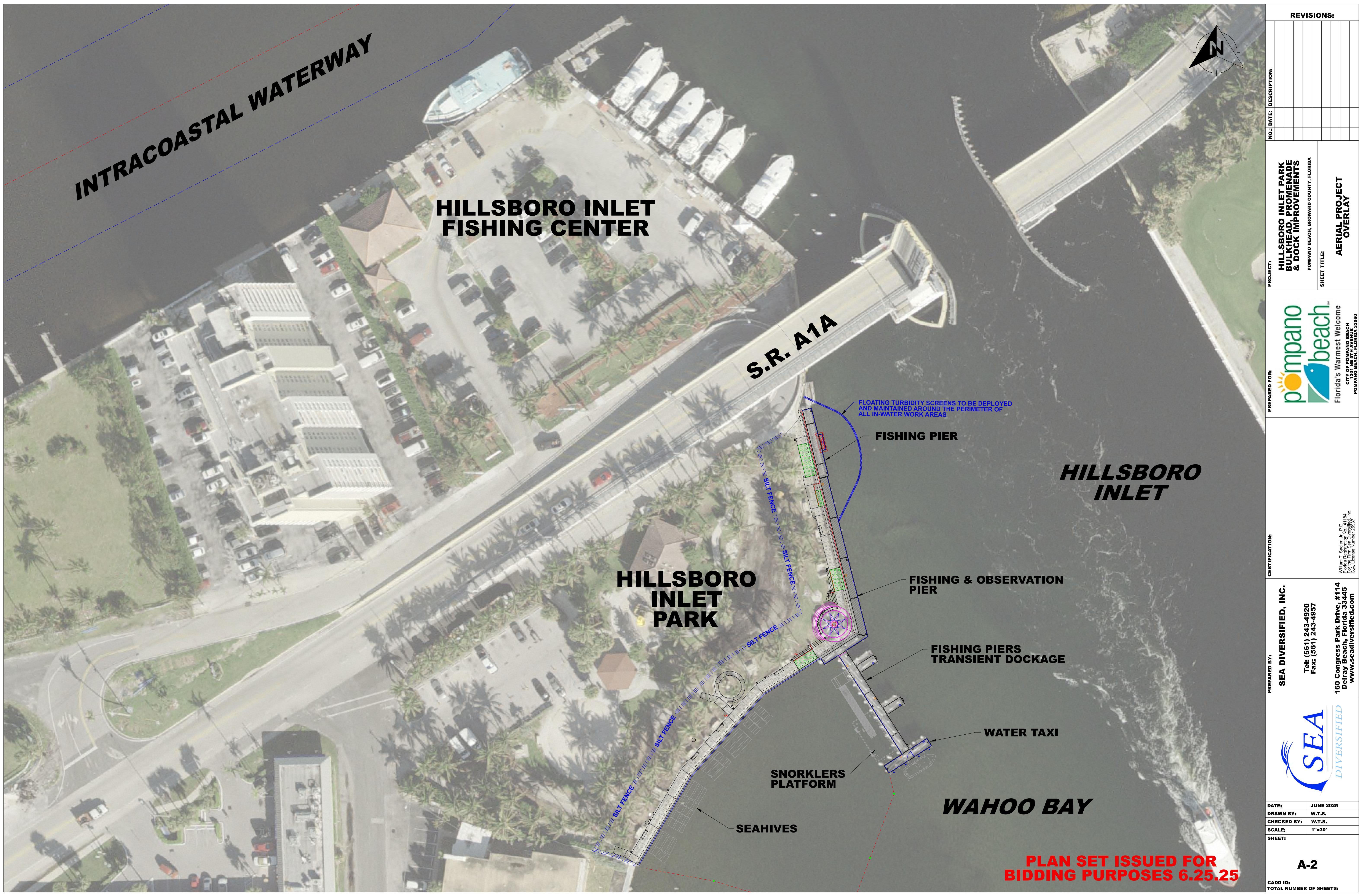
Sadler, Jr., P.E.
Registration No.: 41184
Term Sea Diversified, Inc.
House Number 25937

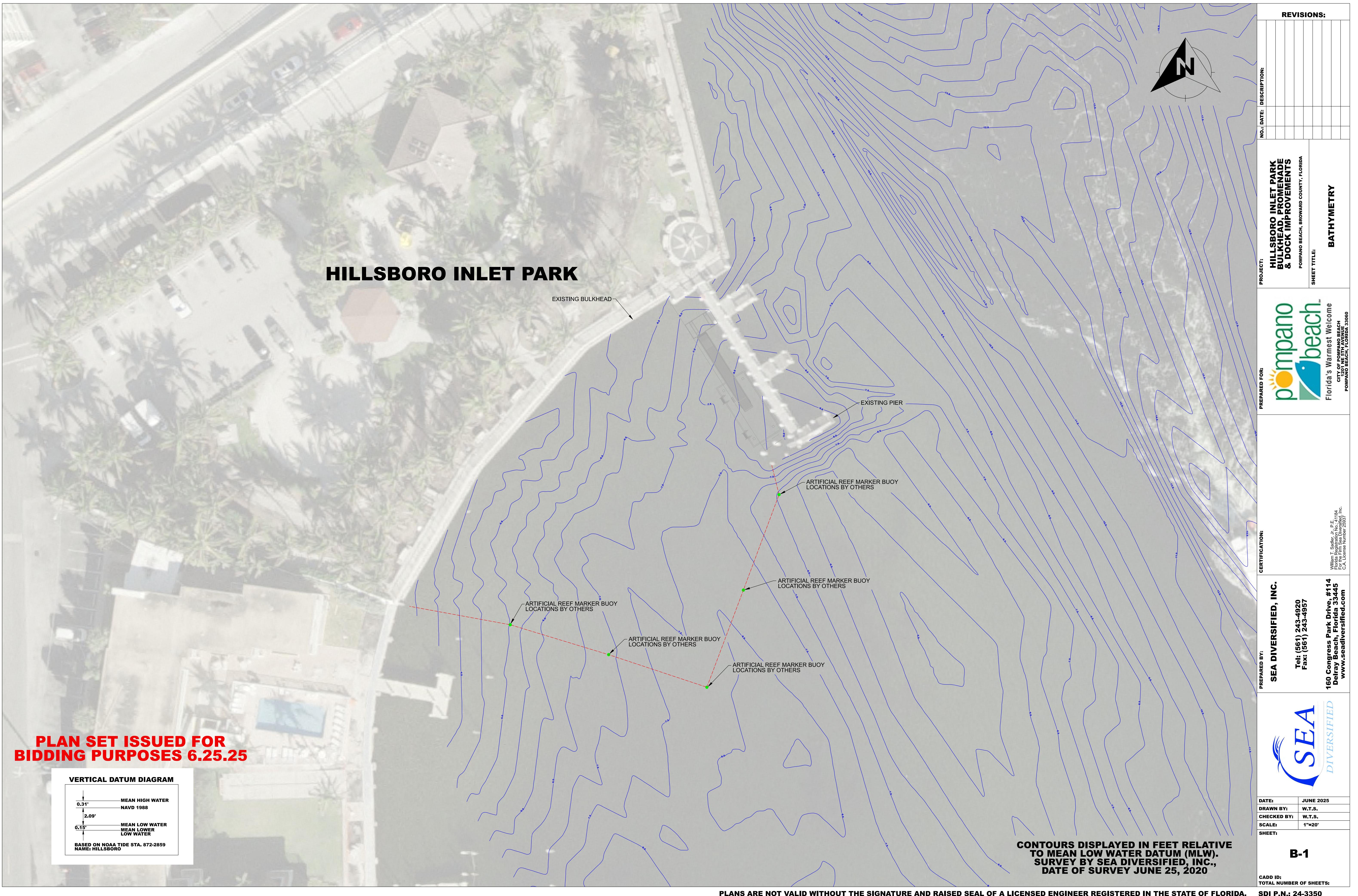
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957

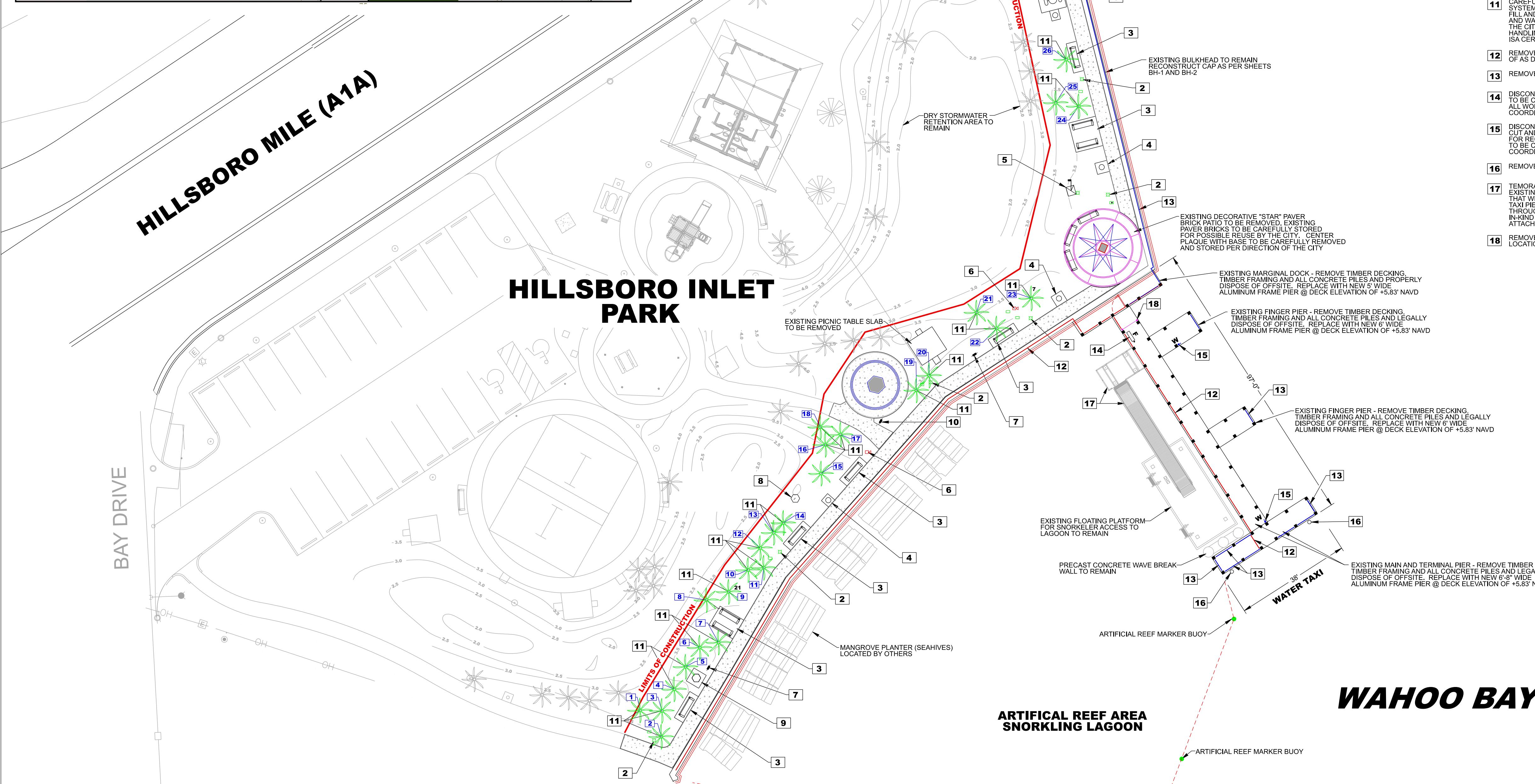
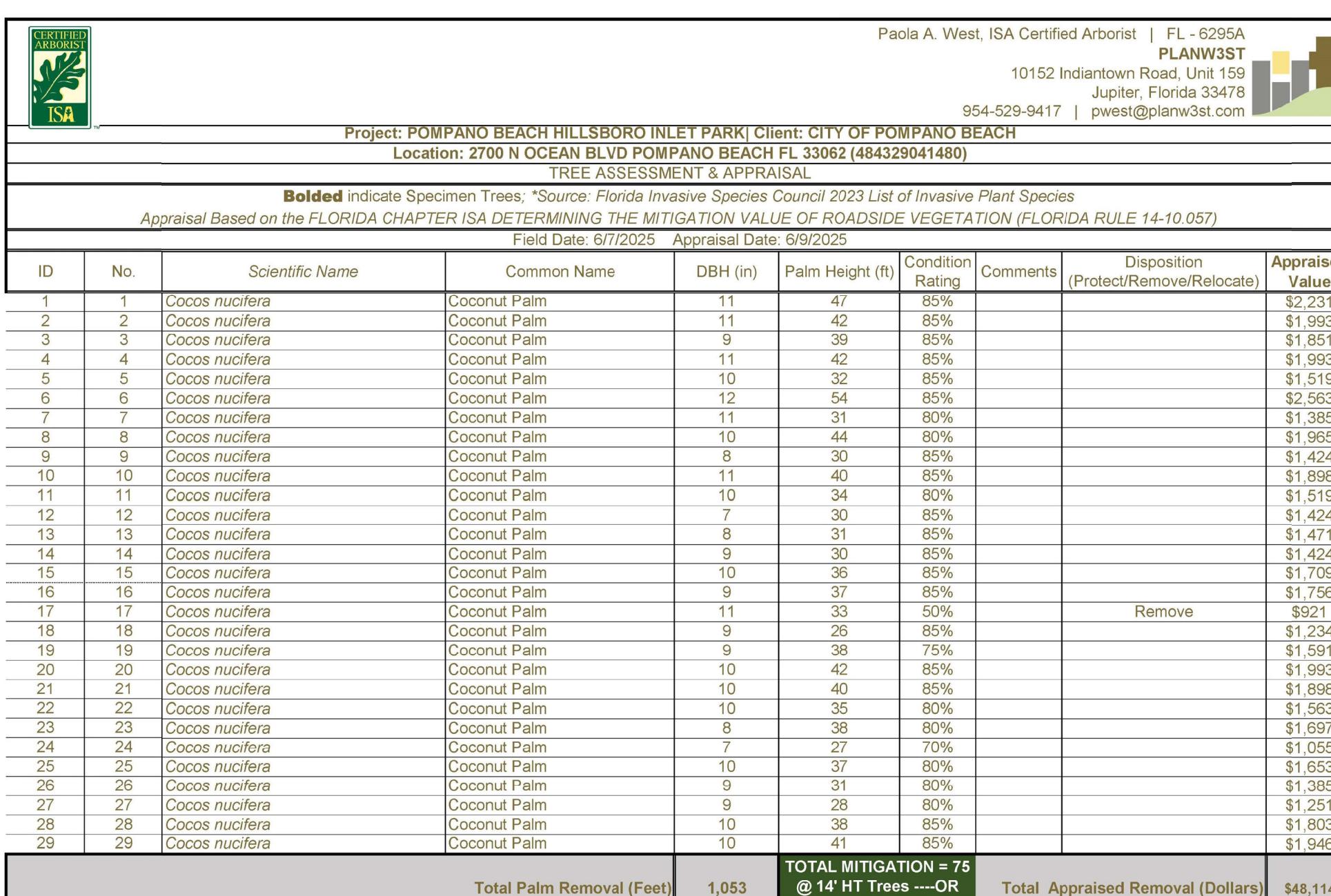
	JUNE 2025
N BY:	W.T.S.
KED BY:	W.T.S.
EE:	N.T.S.

ID: 19-2782.SH1
NUMBER OF SHEETS:



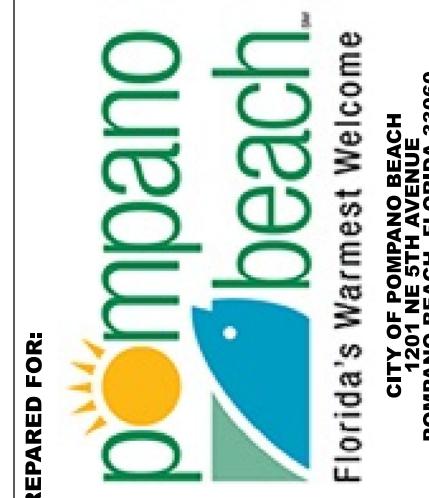
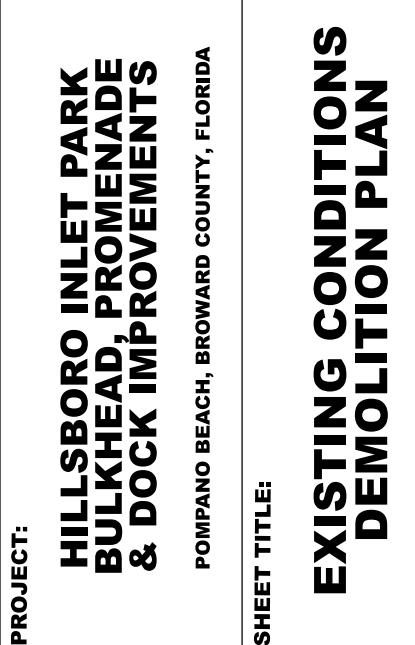
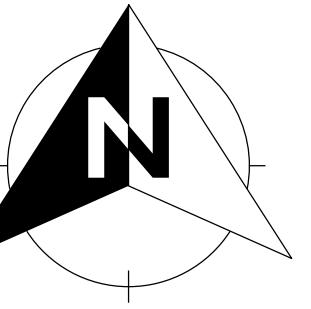






PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.



The logo for Florida's Water features a stylized sun with rays on the left and a blue wave-like shape on the right. The word "water" is written in a lowercase, sans-serif font where the letters 'w', 'a', and 't' are merged together. The 'e' is a small blue circle.

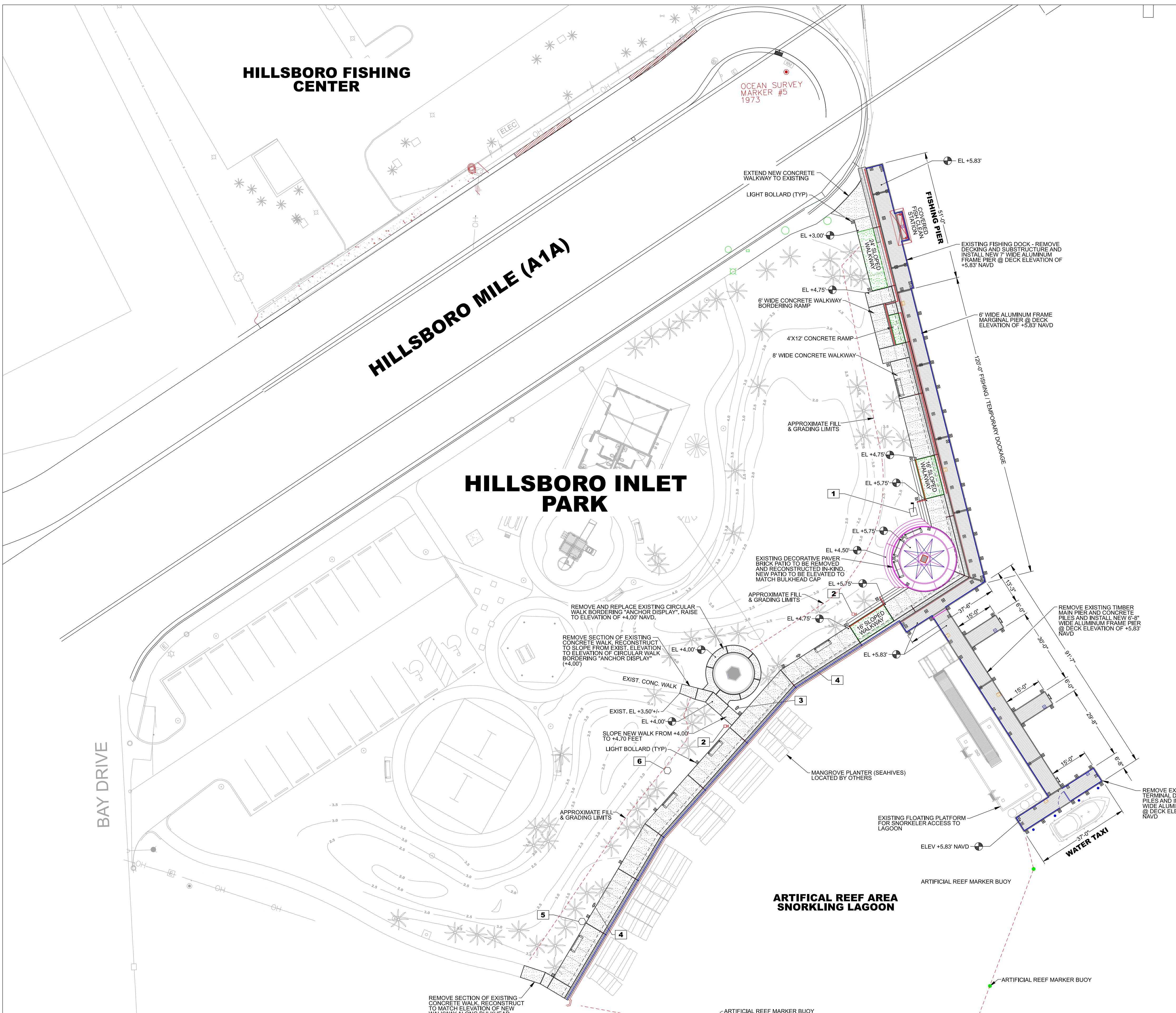
REARED BY:	SEA DIVERSIFIED, INC. Tel: (561) 243-4920 Fax: (561) 243-4957	CERTIFICATION: William T. Sadler, Jr., P.E. Florida Registration No. 411184 For the Firm Sea Diversified, Inc. C.A. License Number 25937
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DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'

Ex 1

**CADD ID:
TOTAL NUMBER OF SHEETS:**



HILLSBORO INLET

SHEET NOTES

- APPROXIMATE LOCATION FOR SALVAGED FLAG POLE AND SPOT LIGHT. REINSTALL FLAG POLE AND BASE IN-KIND, FURNISH AND INSTALL NEW SPOT LIGHT. CONTRACTOR TO COORDINATE WITH CITY ON REMOVAL AND REINSTALLATION.
- APPROXIMATE LOCATION FOR SALVAGED SECURITY CAMERA AND SUPPORT POLE. REINSTALL TO MATCH ORIGINAL. CONTRACTOR TO COORDINATE WITH CITY ON THE REMOVAL AND REINSTALLATION.
- APPROXIMATE LOCATION FOR SALVAGED WATER TAXI SIGN. REINSTALL TO MATCH ORIGINAL.
- APPROXIMATE LOCATION FOR SALVAGED PLAQUE. REINSTALL TO MATCH ORIGINAL.
- APPROXIMATE LOCATION FOR SALVAGED FISH DISPLAY STATUE. REINSTALL TO MATCH ORIGINAL.
- APPROXIMATE LOCATION FOR SALVAGED BELL WITH PLAQUE DISPLAY. REINSTALL TO MATCH ORIGINAL.

LEGEND
<input checked="" type="checkbox"/> LED LIGHT BOLLARD
<input checked="" type="checkbox"/> FIRE EXTINGUISHER CABINET
<input checked="" type="checkbox"/> PARK BENCH
<input checked="" type="checkbox"/> ALUMINUM "LIFT" LADDER
<input checked="" type="checkbox"/> ALUMINUM PIPE GUARDRAIL / GUARDRAIL
<input checked="" type="checkbox"/> ALUMINUM / STAINLESS STEEL CABLE GUARDRAIL
<input checked="" type="checkbox"/> SIGN OR PLAQUE
<input checked="" type="checkbox"/> SECURITY CAMERA
<input checked="" type="checkbox"/> PARK FEATURE (I.E. STATUE OR DISPLAY)

PREPARED BY:	CERTIFICATION:
SEA DIVERSIFIED, INC. Tel: (561) 243-4920 Fax: (561) 243-4957	
160 Congress Park Drive, #14 Delray Beach, Florida 33445 www.seadiversified.com	
DATE: JUNE 2025	
DRAWN BY: W.T.S.	
CHECKED BY: W.T.S.	
SCALE: 1"=20'	
SHEET:	
CADD ID: SDI P.N. 24-3350	
TOTAL NUMBER OF SHEETS: 1	

REVISIONS:

PROJECT:	DESCRIPTION:
HILLSBORO INLET PARK BULKHEAD IMPROVEMENTS POMPANO BEACH, BROWARD COUNTY, FLORIDA	

SITE PLAN



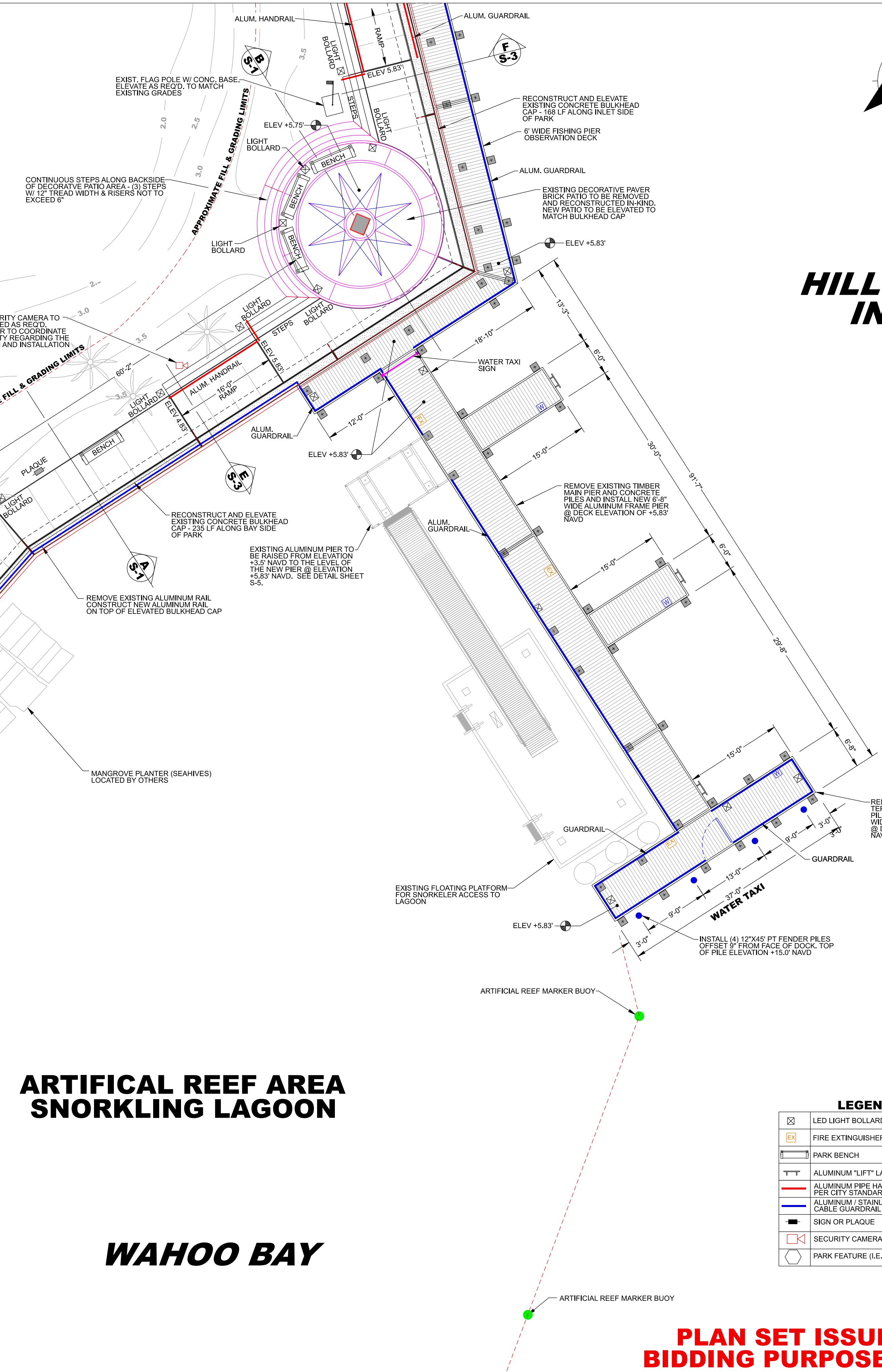
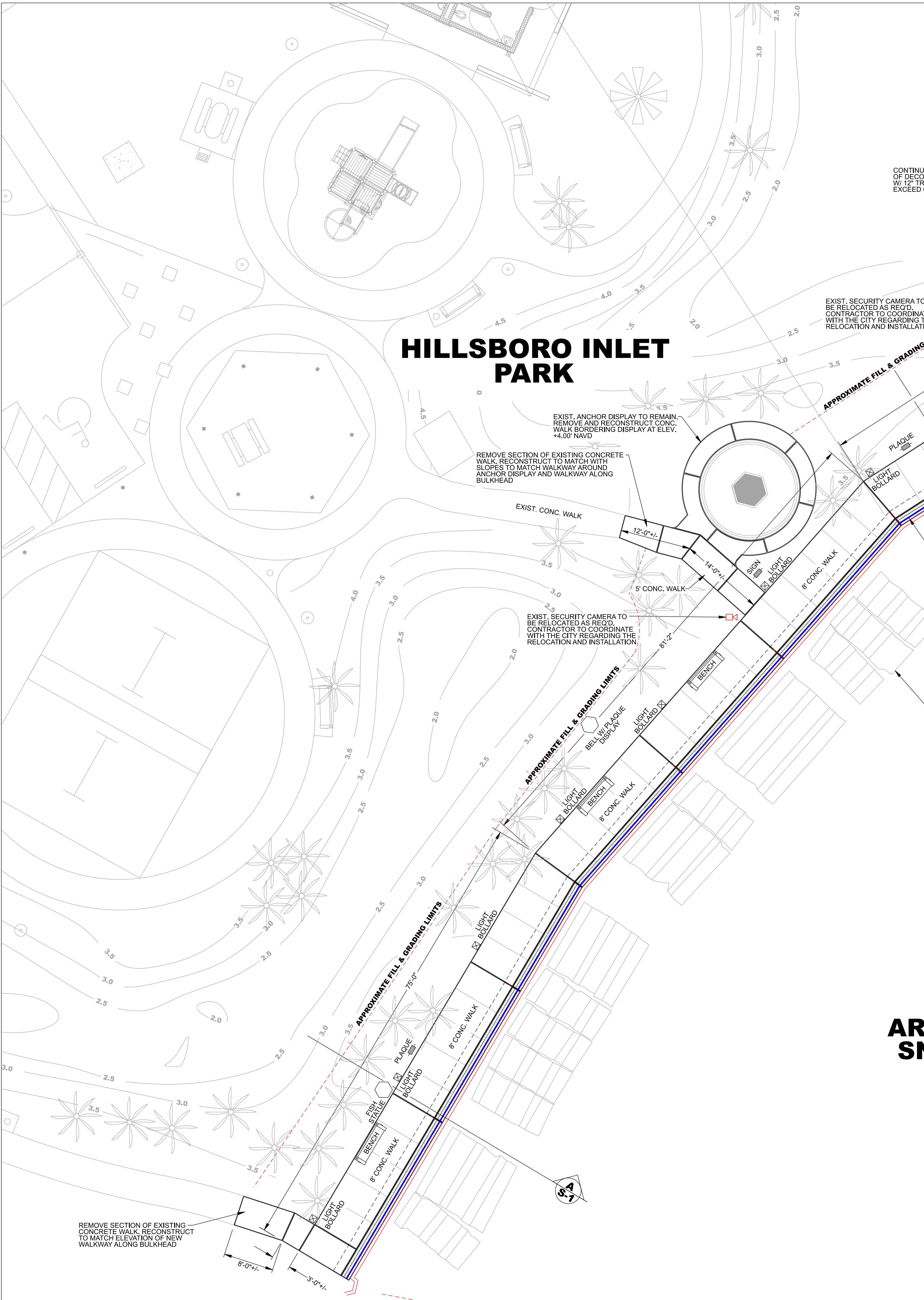
Pompano Beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
POMPANO BEACH, FLORIDA 33060

WAHOO BAY

PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

P-1



LEGEND
LED LIGHT BOLLARD
FIRE EXTINGUISHER CABINET
PARK BENCH
ALUMINUM "LIFT" LADDER
ALUMINUM PIER HANDRAIL / GUARDRAIL
ALUMINUM / STAINLESS STEEL CABLE GUARDRAIL
SIGN OR PLAQUE
SECURITY CAMERA
PARK FEATURE (I.E. STATUE OR DISPLAY)

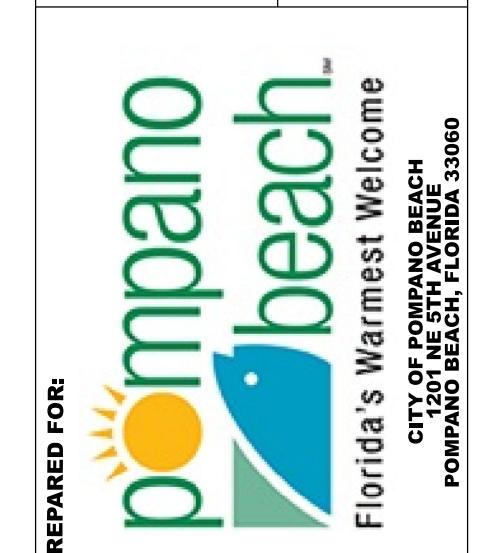
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DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	P-2

CADD ID:
TOTAL NUMBER OF SHEETS:

SDI P.N.: 24-3350

REVISIONS:

PROJECT:	NO.: DATE: DESCRIPTION:
HILLSBORO INLET PARK BULKHEAD & DOCK IMPROVEMENTS POMPANO BEACH, BROWARD COUNTY, FLORIDA	



PREPARED FOR:
SEA DIVERSIFIED, INC.

CERTIFICATION:

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

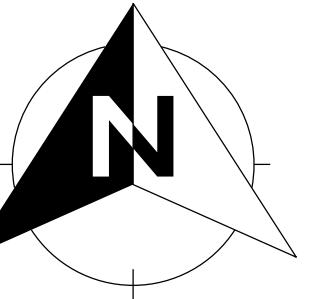
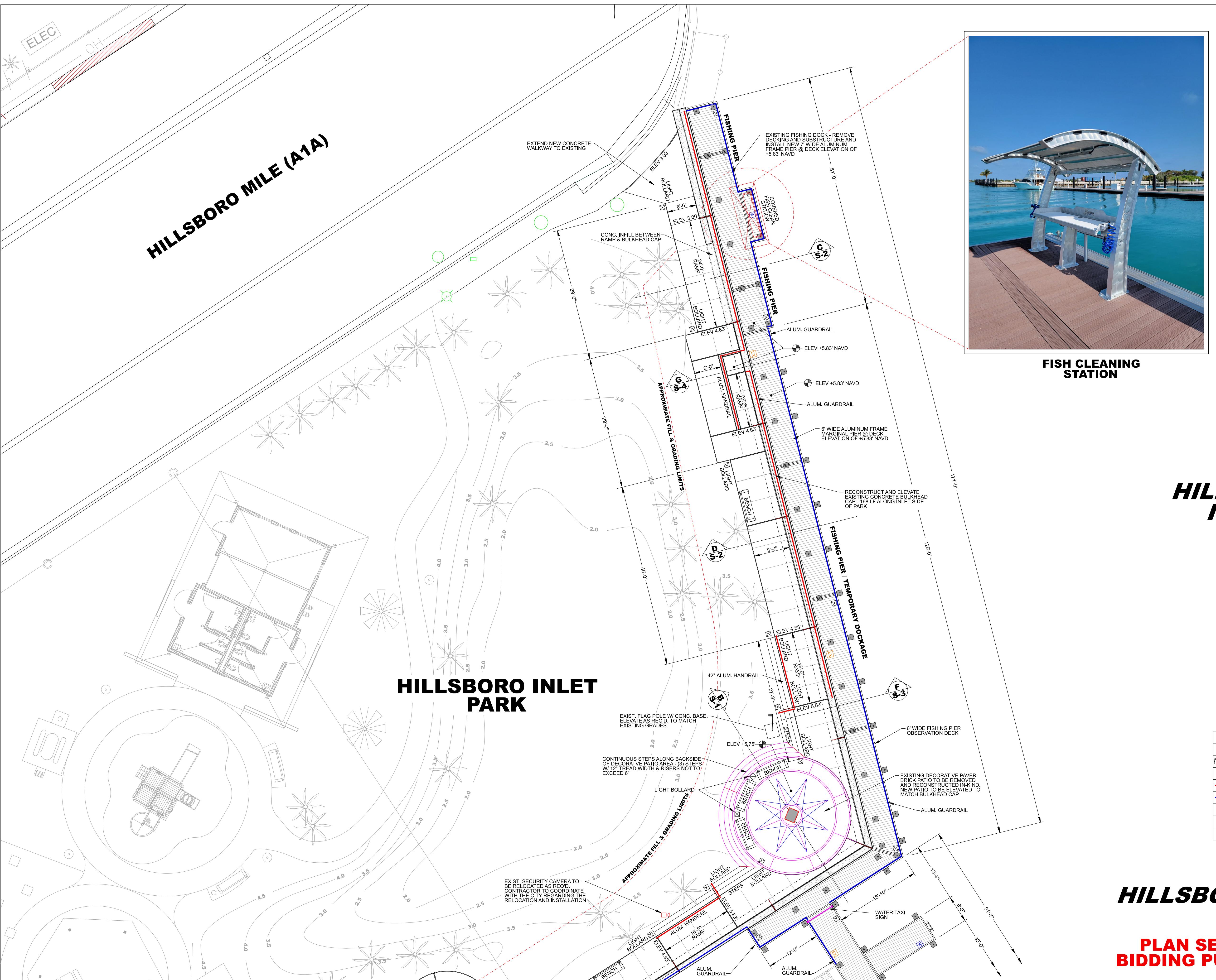
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DRAWN BY: W.T.S.
CHECKED BY: W.T.S.
SCALE: 1"=10'
SHEET: P-2

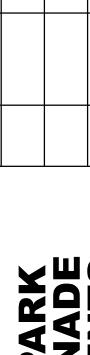
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SDI P.N.: 24-3350

**PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25**

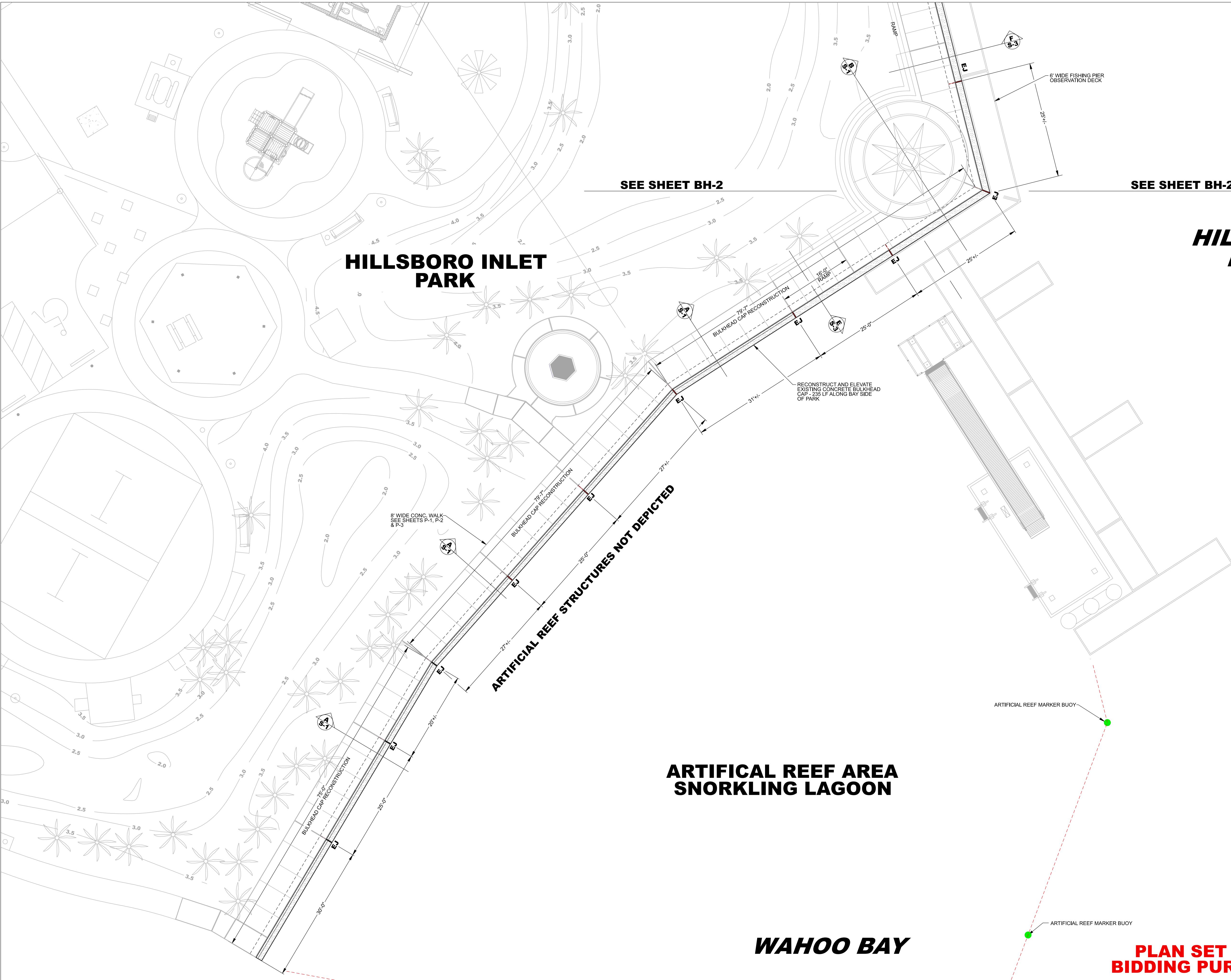
PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.



PREPARED BY:		PREPARED FOR:		PROJECT:	
DATE:	NAME:	DATE:	NAME:	NO.:	DESCRIPTION:
DATE:	PREPARED BY:	DATE:	PREPARED FOR:	NO.:	DESCRIPTION:
DRAWN BY:	SEA DIVERSIFIED, INC.	DRAWN BY:	HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS	NO.:	
CHECKED BY:		CHECKED BY:	POMPANO BEACH, BROWARD COUNTY, FLORIDA	NO.:	
SCALE:	Tel: (561) 243-4920 Fax: (561) 243-4957	SCALE:		NO.:	
SHEET:		SHEET:		NO.:	
				160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com	
CADD ID: T33		CERTIFICATION: SEA DIVERSIFIED		160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com	
DATE: JUNE 2025		DATE: W.T.S.		DATE: W.T.S.	
SCALE: 1"=10'		SCALE: W.T.S.		SCALE: W.T.S.	
SHEET: 1		SHEET: 1		SHEET: 1	
TOTAL NUMBER OF SHEETS: 1		SHEET TITLE: PLAN DETAIL NORTH		NOTES: Florida's Warmest Welcome CITY OF POMPANO BEACH 1201 NE 5TH AVENUE POMPANO BEACH, FLORIDA 33060	
REVISIONS: 1		PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS		NOTES: William T. Sadler, Jr., P.E. Florida Registration No: 41184 For the Firm Sea Diversified, Inc. C.A. License Number 25937	

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

P.3



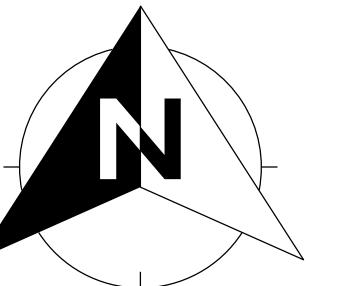
ARTIFICIAL REEF AREA SNORKLING LAGOON

WAHOO BAY

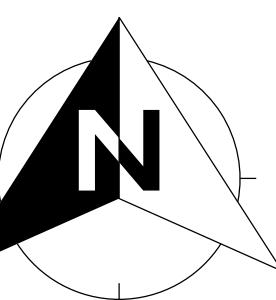
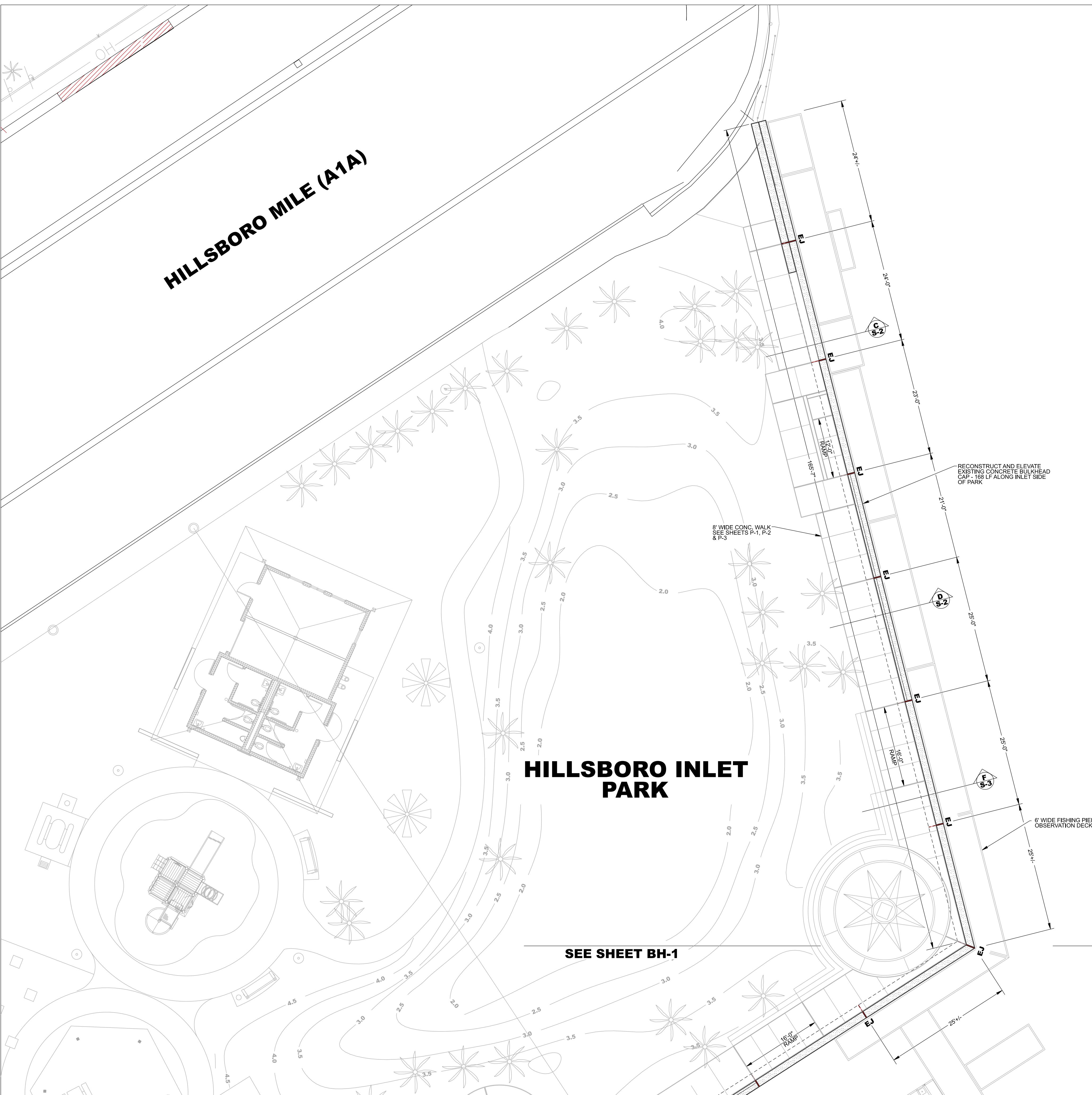
PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

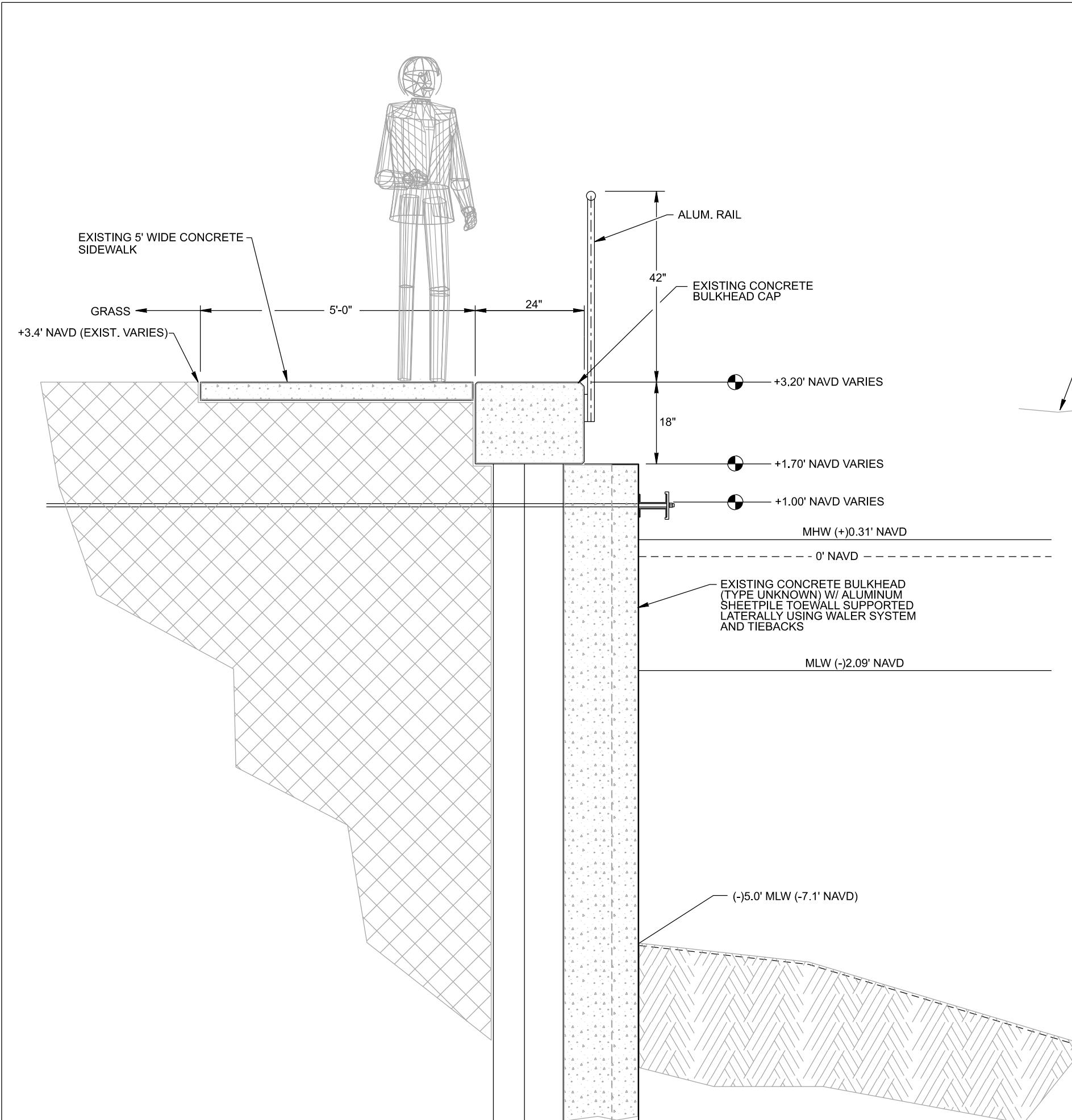
SDI P.N.: 24-3350



PREPARED BY:		CERTIFICATION:		PROJECT:		PREPARED FOR:		NO.: DATE: DESCRIPTION:	
SEA DIVERSIFIED, INC.				HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS		POMPANO BEACH, BROWARD COUNTY, FLORIDA		160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com	
									
DATE:	JUNE 2025	DRAWN BY:	W.T.S.	CHECKED BY:	W.T.S.	SCALE:	1"=10'	NO.:	DATE:
SHEET:								DESCRIPTION:	
CADD ID:									
TOTAL NUMBER OF SHEETS:									
BH-1									



REVISIONS:	
NO.:	DATE:
DESCRIPTION:	
PROJECT:	HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS POMPANO BEACH, BROWARD COUNTY, FLORIDA
SHEET TITLE:	PLAN DETAIL NORTH
SEA DIVERSIFIED, INC.	PREPARED FOR:
160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com	PREPARED FOR:
William T. Safford, Jr., P.E. Florida State License No. 21184 For The Firm of Safford, Inc. C.A. License Number 25357	PROJECT:
SEA DIVERSIFIED, INC.	PREPARED FOR:
160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com	PREPARED FOR:
DATE: JUNE 2025	
DRAWN BY: W.T.S.	
CHECKED BY: W.T.S.	
SCALE: 1"=10'	
SHEET:	
CADD ID: 24-3350.sh11.BH-2.plan.detail.south.6.25.25_2D.dgn	SDI P.N. 24-3350
TOTAL NUMBER OF SHEETS:	



SECTION A
TYPICAL SECTION - EXISTING CONDITIONS

SCALE: 1"=2'-0"

CONCRETE NOTES:

CONCRETE CAP:

1. 6,000 PSI

2. W/C < 0.40

3. 6% MICRO-SILICA BY WEIGHT OF CEMENT

4. APPLY CEMENT BASE CONCRETE MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING.

(NOTE: CONIFILM IS NOT A CURING COMPOUND)

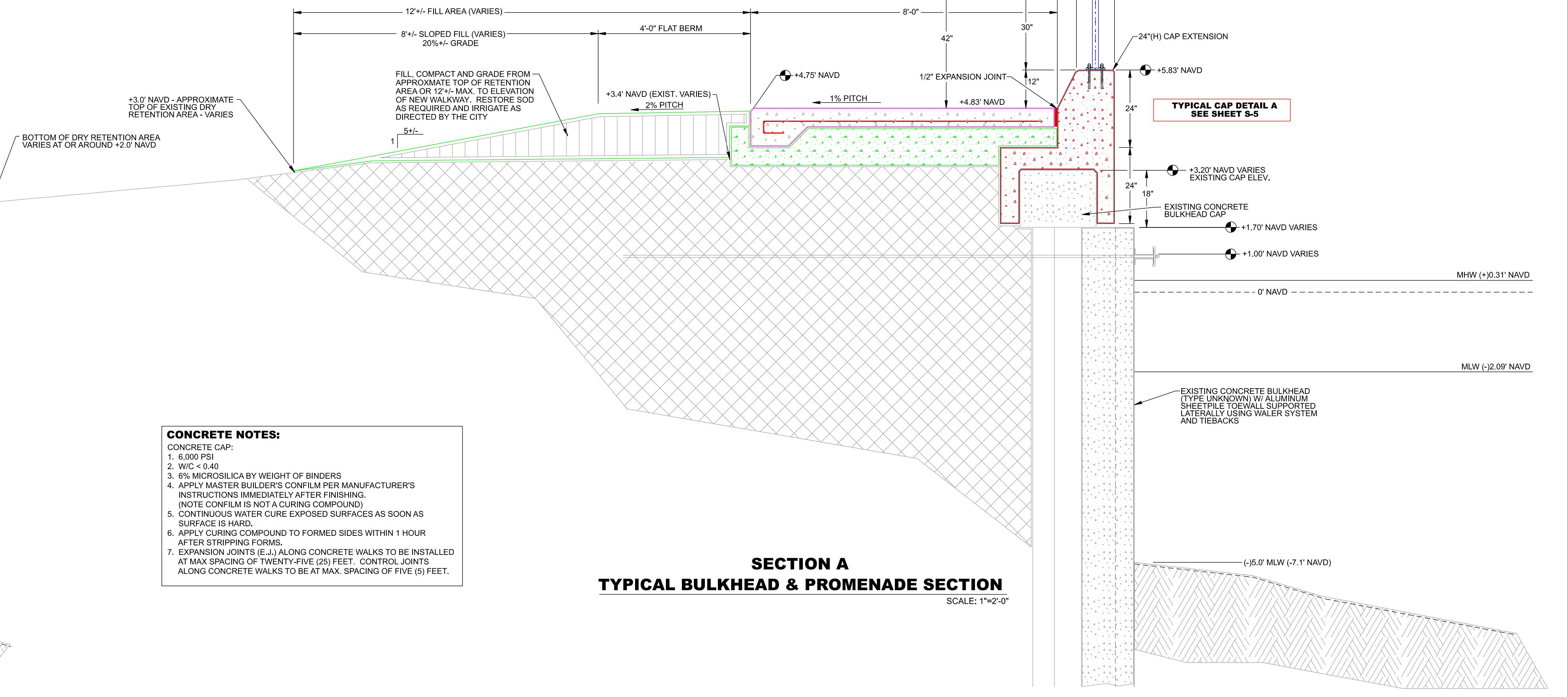
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARSH

6. APPLY CURE COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.

7. EXPANSION JOINTS (E.J.) ALONG CONCRETE WALKS TO BE INSTALLED AT MAX SPACING OF TWENTY-FIVE (25) FEET. CONTROL JOINTS ALONG CONCRETE WALKS TO BE AT MAX. SPACING OF FIVE (5) FEET.

SECTION A
TYPICAL BULKHEAD & PROMENADE SECTION

SCALE: 1"=2'-0"



CONCRETE NOTES:

CONCRETE CAP:

1. 6,000 PSI

2. W/C < 0.40

3. 6% MICRO-SILICA BY WEIGHT OF CEMENT

4. APPLY CEMENT BASE CONCRETE MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING.

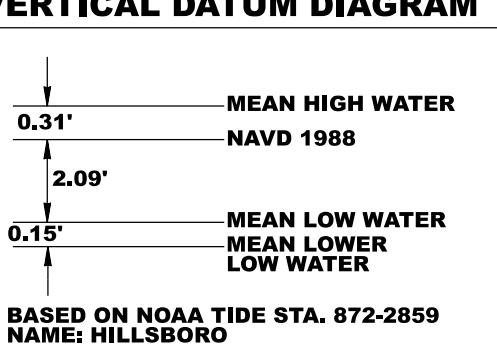
(NOTE: CONIFILM IS NOT A CURING COMPOUND)

5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARSH

6. APPLY CURE COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.

7. EXPANSION JOINTS (E.J.) ALONG CONCRETE WALKS TO BE INSTALLED AT MAX SPACING OF TWENTY-FIVE (25) FEET. CONTROL JOINTS ALONG CONCRETE WALKS TO BE AT MAX. SPACING OF FIVE (5) FEET.

VERTICAL DATUM DIAGRAM



DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRAC EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D26 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE

SECTION B
TYPICAL SECTION @ EXISTING PIER & DECORATIVE PATIO

**PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25**

REVISIONS:		
NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD & DOCK IMPROVEMENTS POMPANO BEACH, BROWARD COUNTY, FLORIDA	SHEET TITLE: TYPICAL SECTION DETAILS

PREPARED FOR: SEADIVERSIFIED, INC.	CERTIFICATION:
Tel: (561) 243-4920 Fax: (561) 243-4957 160 Congress Park Drive, #14 Delray Beach, Florida 33445 www.seadiversified.com	

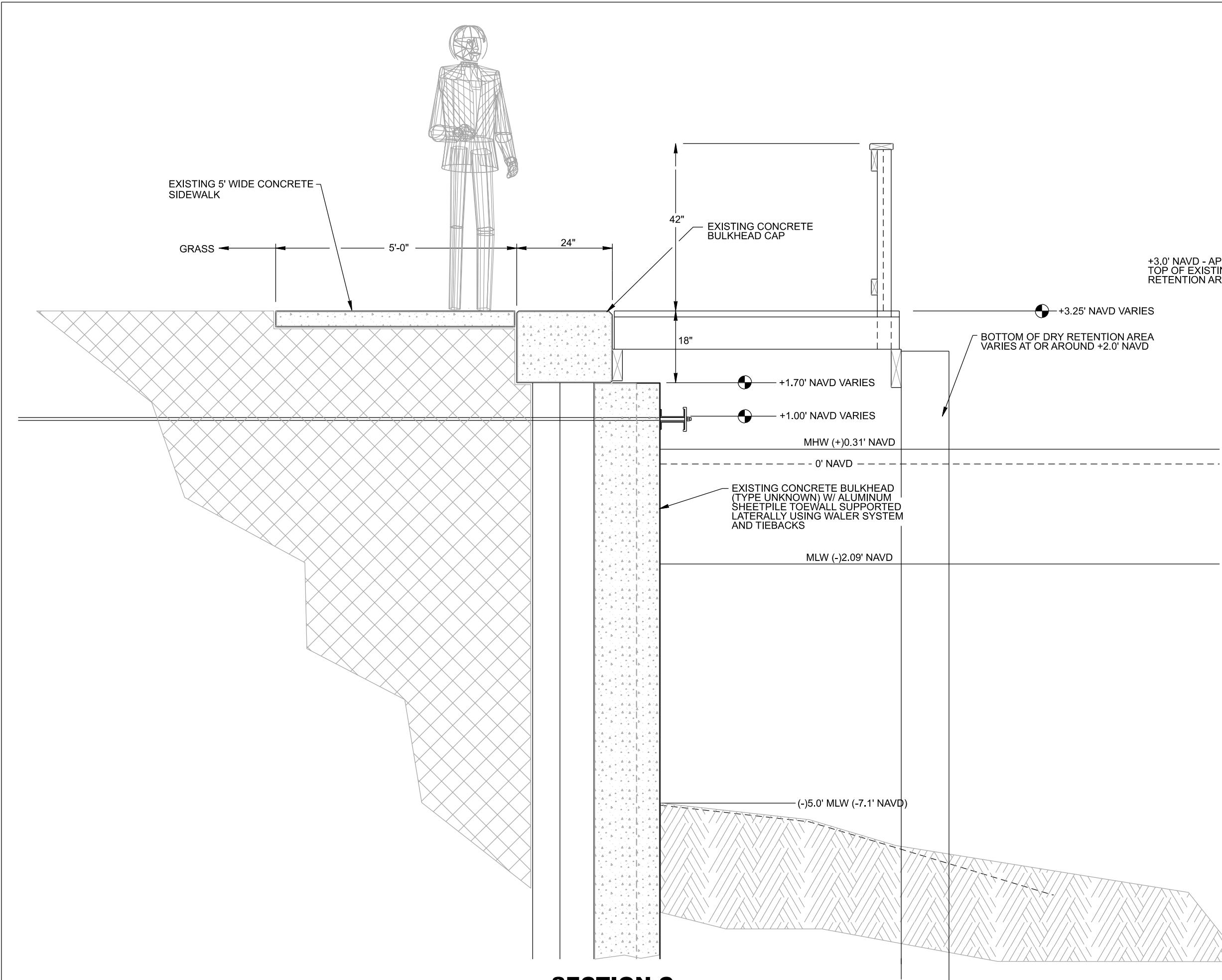
PREPARED BY: SEA DIVERSIFIED, INC.	CERTIFICATION:
Tel: (561) 243-4920 Fax: (561) 243-4957 160 Congress Park Drive, #14 Delray Beach, Florida 33445 www.seadiversified.com	

DATE: JUNE 2025
DRAWN BY: W.T.S.
CHECKED BY: W.T.S.
SCALE: AS SHOWN
SHEET:

S-1
CADD ID: TOTAL NUMBER OF SHEETS:

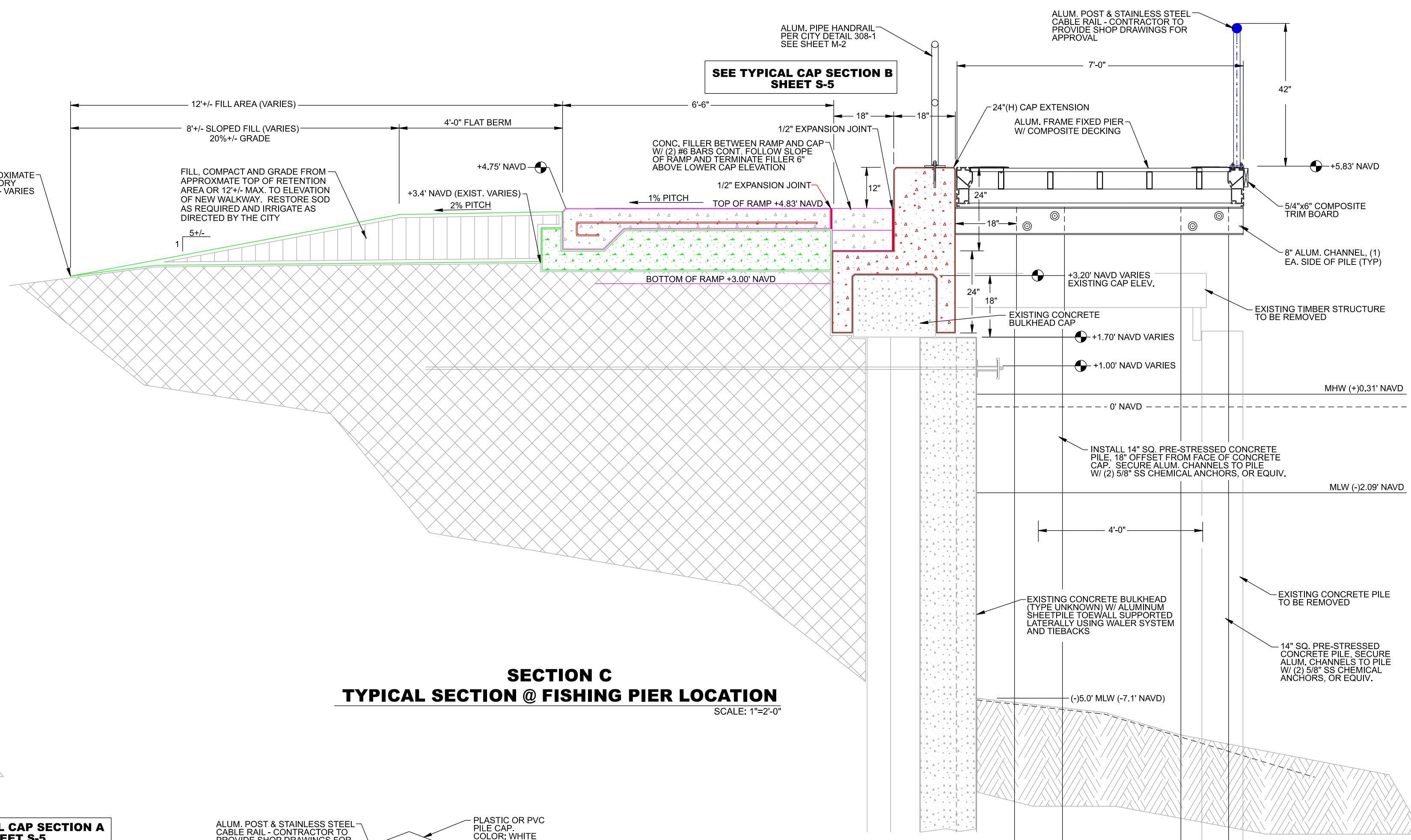
SDI P.N. 24-3350

William T. Safford, Jr., P.E. No. E-1194
For the Firm of Safford & Associates, Inc.
C.A. License Number 25307



SECTION C
EXISTING CONDITIONS @ FISHING PIER LOCATION

SCALE: 1"-2'-0"



SECTION C
TYPICAL SECTION @ FISHING PIER LOCATION

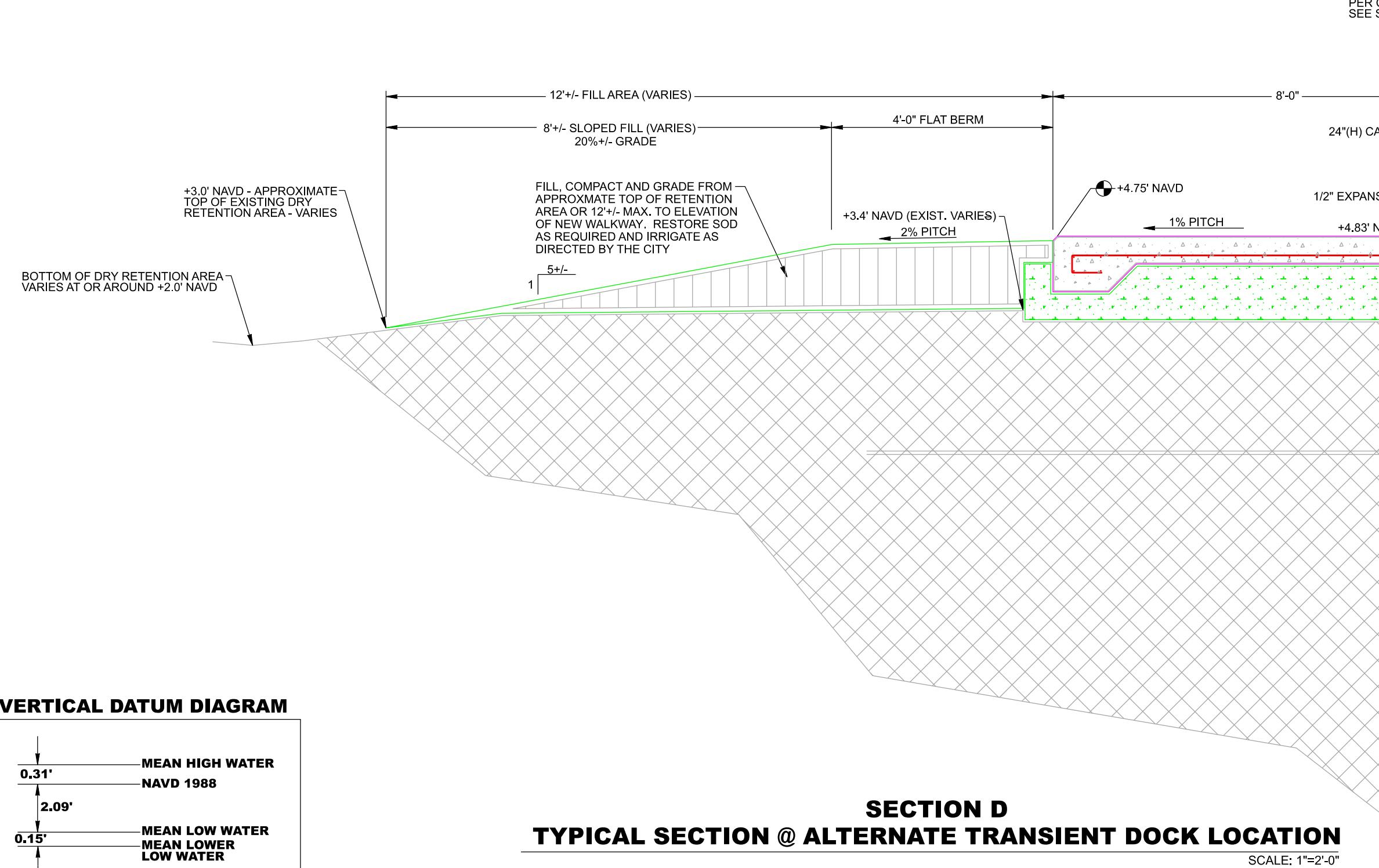
SCALE: 1"-2'-0"

REVISIONS:	
NO.:	DATE: DESCRIPTION:

**HILLSBORO INLET PARK
BULKHEAD & DOCK IMPROVEMENTS**
POMPANO BEACH, BROWARD COUNTY, FLORIDA
SHEET TITLE: **TYPICAL SECTION DETAILS**

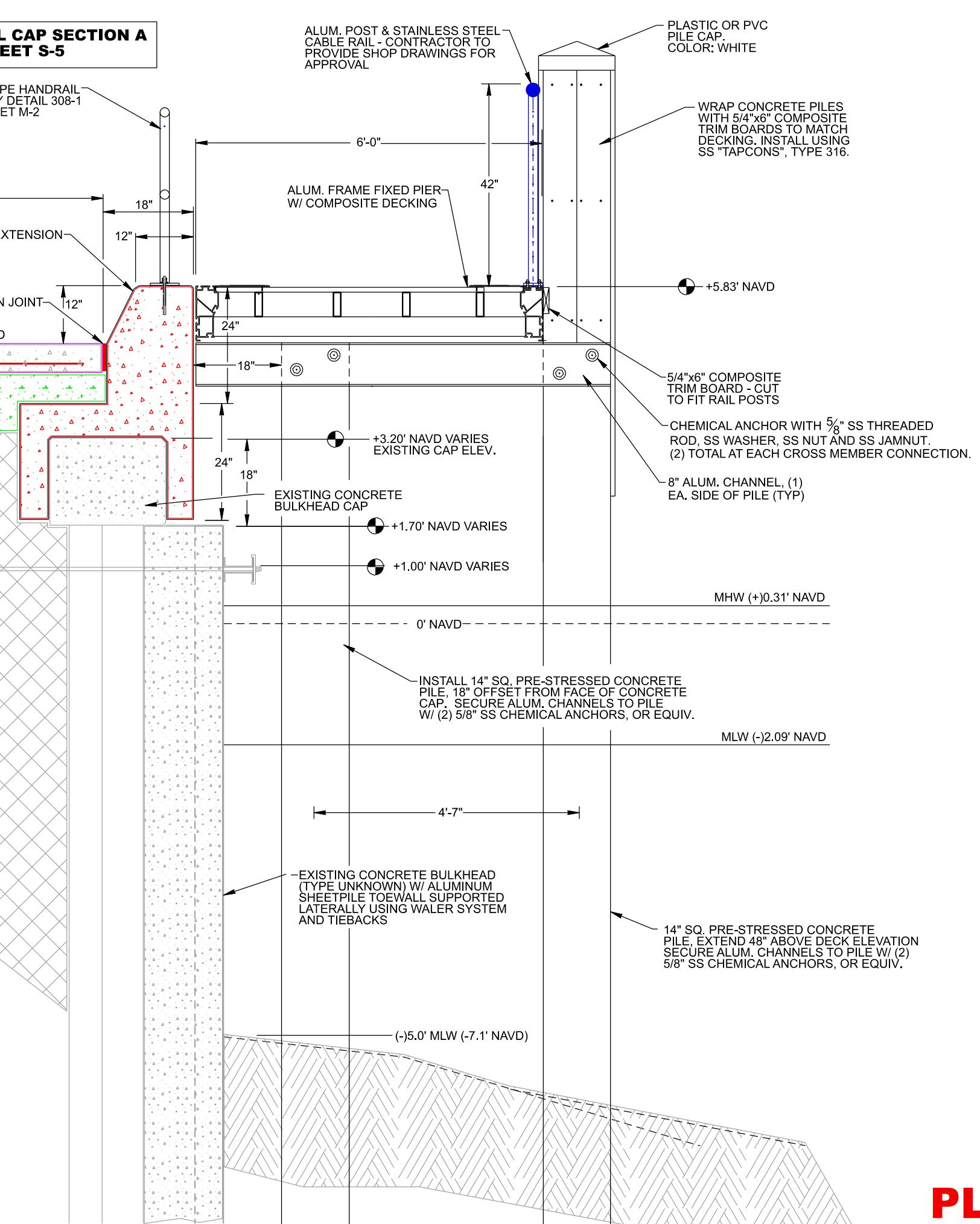
PROJECT:	Hillsboro Inlet Park Bulkhead & Dock Improvements
PREPARED FOR:	Florida's Warmest Welcome CITY OF POMPANO BEACH POMPANO BEACH, FLORIDA 33090

William T. Suddeth, Jr., P.E.
Florida State Certified, Inc.
For the Firm State Divested No. 21184
C.A. License Number 25307

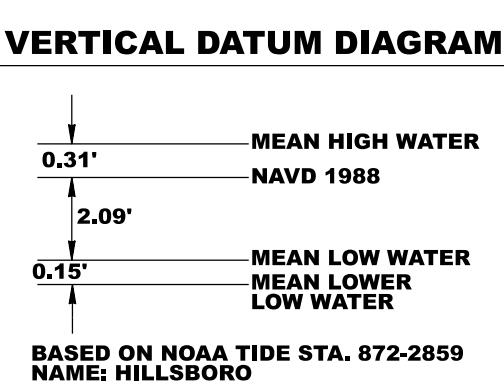


SECTION D
TYPICAL SECTION @ ALTERNATE TRANSIENT DOCK LOCATION

SCALE: 1"-2'-0"



**NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE
FOR BIDDING PURPOSES ALL PILES TO BE 45 FEET IN LENGTH**



DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

**PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25**

CONCRETE NOTES:
CONCRETE CAP:
1. 100 PSF
2. W/G < 0.40
3. 6% MICROSLICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONCRETE MANUFACTURER'S INSTRUCTIONS FOR CURE AFTER CURING (INST. CEMENT IS NOT A CEMENT COMPOUND)
5. CONTINUOUS WATER EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
6. APPLY CEMENT COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.
7. EXPANSION JOINTS (E.J.) ALONG CONCRETE WALKS TO BE INSTALLED AT MAX SPACING OF TWENTY-FIVE (25) FEET. CONTROL JOINTS ALONG CONCRETE WALKS TO BE AT MAX. SPACING OF FIVE (5) FEET.

DESIGN CRITERIA

LIVE LOAD CRITERIA:
100 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PERSONNEL TRAFFIC ONLY
BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES
WIND LOAD CRITERIA:
LIVE LOAD, ZERO OCCUPANCY: N/A
UNLOADED, ZERO OCCUPANCY: N/A
WIND SPEED: 156 MPH (3-SECOND GUST)
RISK CATEGORY: 1, EXPOSURE D PER ASCE/SEI 7-22
WAVE LOAD CRITERIA:
SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
WAVE PERIOD (T): 2.8 SECONDS
CURRENT LOAD CRITERIA:
2.0 FEET/SECOND (FPS)
WATER LEVEL DATA:
MHW: +0.31 FEET NAVD
MLW: -2.09 FEET NAVD
DESIGN WATER DEPTH:
-6.0 FEET (FOR MARGINAL DOCKS & PIERS)
-9.0 FEET MLW (WAHOO BAY FISHING PIER)
SERVICE LIFE: 30 YEARS
NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. 3.0 DEGREE APPROACH ANGLE FOR SLIPS
4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023)
FLORIDA BUILDING CODE

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #14
Delray Beach, Florida 33445
www.seadiversified.com

DATE: JUNE 2025
DRAWN BY: W.T.S.
CHECKED BY: W.T.S.
SCALE: AS SHOWN
SHEET:

S-2

CADD ID: **SDI P.N. 24-3350**
TOTAL NUMBER OF SHEETS:

DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

**NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE
FOR BIDDING PURPOSES ALL PILES TO BE 45 FEET IN LENGTH**

42"

5'-0" MAX.
POST SPACING (TYP)

2" SQ. ALUM. POST

30"

4" MAX.

4" MAX.

34" MAX.

9"

2" SQ. ALUM. BOTTOM RAIL

BULKHEAD CAP EXPANSION JOINT
INSTALL BREAK IN RAIL (TYP)

TYPICAL ADA RAIL SECTION
SEE PLAN SHEETS FOR LOCATION

TYPICAL ALUM. TOP / BOTTOM RAIL & POST W/ SS CABLE SAFETY BARRIER - DETAIL

**NOTE:
INSTALL (3) EXPANSION JOINTS
ALONG STEPS BORDERING
PAVER BRICK PATIO AS PER
PLAN SHEETS**

" CHAMFER ALL
STEP EDGES

6" RISER

12" TREAD

1/4" PER FOOT

12" TOP

1/2" EXPANSION JOINT
BETWEEN STEPS &
CONC. WALKWAY

#4 VERT. HOOK BARS
@ 8" LONGITUDINAL

#4 LONGITUDINAL BARS
AS DEPICTED - (12) TOTAL

#4 VERT. BARS @ 8" O.C. LONGITUDINAL
TRANSVERSE SPACING AS SHOWN

#4 TRANSVERSE BARS @ 8" O.C.
LONGITUDINAL VERTICAL SPACING

12"X24" RETAINING WALL W/ 12"X24"
MONOLITHIC FOOTER. (4)#6 LONG.
BARS VERTICAL & (3)#6 LONG. BAR
HORIZONTAL AS DEPICTED. INSTAL
#6 "L" BARS @ 12" O.C. MAINTAIN 4"
CLEAR COVER SIDES, TOP & BOTTO

3/4" CHAMFER ALL
STEP EDGES

12"

12"

12"

TYPICAL RETAINING WALL DETAILS

SECTION E
TYPICAL SECTION @ 24' RAMP

SCALE: 1"=2'-0"

SEE TYPICAL RETAINING WALL DETAIL THIS SHEET

SLOPE TO NATURAL GRADE DISTANCE VARIES

4'-0" FLAT BERM

ALUM. PIPE HANDRAIL PER CITY DETAIL 308-1 SEE SHEET M-2

INSTALL (2) #4 BARS CONTINUOUS ALONG BOTTOM OF THICKENED EDGE. WRAP TRANSVERSE BARS AS SHOWN

6" THICK 4000 PSI CONCRETE WALKWAY WITH #4 BARS PLACED AT 6" O.C. EACH WAY. CONSTRUCT 12"X12" THICKENED EDGE AS SHOWN

12"

12"

8'-0"

18"

42"

24"(H) CAP EXTENSION

1/2" EXPANSION JOINT

TOP OF RAMP +5.83

RAMP SLOPE FROM +4.83 TO +5.83

+4.75 NAVD

12" MAX

SEE TYPICAL CAP SECTION B SHEET S-5

+5.83' NAVD

+3.20' NAVD VARIES EXISTING CAP ELEV.

EXISTING CONCRETE BULKHEAD CAP

+1.70' NAVD VARIES

+1.00' NAVD VARIES

0' NAVD

MHW (+)0.31' NAVD

MLW (-)2.09' NAVD

ALUM. POST & STAINLESS STEEL CABLE RAIL - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL

PLASTIC OR PVC PILE CAP. COLOR: WHITE

MINIMUM STAIR RAIL

SEE TYPICAL CAP SECTION B SHEET S-5

MEAN HIGH WATER
NAVD 1988
0.31'

2.09'

MEAN LOW WATER
MEAN LOWER LOW WATER
0.15'

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO

SECTION E

TYPICAL SECTION @ 24' RAMP

**SEE TYPICAL CAP SECTION B
SHEET S-5**

ALUM. POST & STAINLESS STEEL CABLE RAIL - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL

PLASTIC OR PVC PILE CAP. COLOR: WHITE

WRAP CONCRETE PILES WITH 5/4"x6" COMPOSITE TRIM BOARDS TO MATCH DECKING. INSTALL USING SS "TAPCONS", TYPE 316.

6" THICK 4000 PSI CONCRETE WALKWAY WITH #4 BARS PLACED AT 6" O.C. EACH WAY. CONSTRUCT 12"X12" THICKENED EDGE AS SHOWN

8'-0" 18" 6'-0"

1/2" EXPANSION JOINT

ALUM. FRAME FIXED PIER W/ COMPOSITE DECKING

24"(H) CAP EXTENSION

+5.83' NAVD

24" 18" 24" 18" 24"

+3.20' NAVD VARIES EXISTING CAP ELEV.

5/4"x6" COMPOSITE TRIM BOARD - CUT TO FIT RAIL POSTS

CHEMICAL ANCHOR WITH $\frac{5}{8}$ " SS THREADED ROD, SS WASHER, SS NUT AND SS JAMNUT. (2) TOTAL AT EACH CROSS MEMBER CONNECTION.

8" ALUM. CHANNEL, (1) EA. SIDE OF PILE (TYP)

EXISTING CONCRETE BULKHEAD CAP

+1.70' NAVD VARIES

+1.00' NAVD VARIES

MHW (+)0.31' NAVD

0' NAVD

INSTALL 14" SQ. PRE-STRESSED CONCRETE PILE, 18" OFFSET FROM FACE OF CONCRETE CAP. SECURE ALUM. CHANNELS TO PILE W/ (2) 5/8" SS CHEMICAL ANCHORS, OR EQUIV.

MLW (-2.09' NAVD)

4'-7"

EXISTING CONCRETE BULKHEAD (TYPE UNKNOWN) W/ ALUMINUM SHEETPILE TOEWALL SUPPORTED LATERALLY USING WALER SYSTEM AND TIEBACKS

14" SQ. PRE-STRESSED CONCRETE PILE, EXTEND 48" ABOVE DECK E SECURE ALUM. CHANNELS TO P 5/8" SS CHEMICAL ANCHORS, OR

(-5.0' MLW (-7.1' NAVD))

Detailed description: This is a technical cross-section diagram of a concrete bulkhead wall. The wall is shown in a vertical orientation, with a hatched area at the base representing the toe wall. A horizontal dimension line indicates a width of 4'-7" between two vertical lines. A callout points to the left side of the wall, identifying it as an 'EXISTING CONCRETE BULKHEAD (TYPE UNKNOWN) W/ ALUMINUM SHEETPILE TOEWALL SUPPORTED LATERALLY USING WALER SYSTEM AND TIEBACKS'. Another callout points to the right side, detailing the use of '14" SQ. PRE-STRESSED CONCRETE PILE, EXTEND 48" ABOVE DECK E SECURE ALUM. CHANNELS TO P 5/8" SS CHEMICAL ANCHORS, OR'. A horizontal dimension line at the bottom indicates a height of (-5.0' MLW (-7.1' NAVD)) from the base of the wall to a reference line.

VERTICAL DATUM DIAGRAM

MEAN HIGH WATER
NAVD 1988

0.31'

2.09'

MEAN LOW WATER

0.15'

MEAN LOWER
LOW WATER

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO

LSBORO INLET PARK KHEAD, PROMENADE OCK IMPROVEMENT

NO BEACH, BROWARD COUNTY, FLORIDA

PREPARED BY:	CERTIFICATION:
<p>SEA DIVERSIFIED, INC.</p> <p>Tel: (561) 243-4920 Fax: (561) 243-4957 www.seadiversified.com</p>	
<p>160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com</p>	
<p>William T. Sadler, Jr., P.E. Florida Registration No.: 4 For the Firm Sea Diversified C.A. License Number 2593</p>	

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

DESIGN CRITERIA

LIVE LOAD CRITERIA:
100 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
LOADED, FULL OCCUPANCY: N/A
UNLOADED, ZERO OCCUPANCY:
WIND SPEED: 156 MPH (3-SECOND GUST)
RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22

WAVE LOAD CRITERIA:
SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA:
2.0 FEET/SECOND (FPS)

WATER LEVEL DATA:
MHW: +0.31 FEET NAVD
MLW: -2.09 FEET NAVD

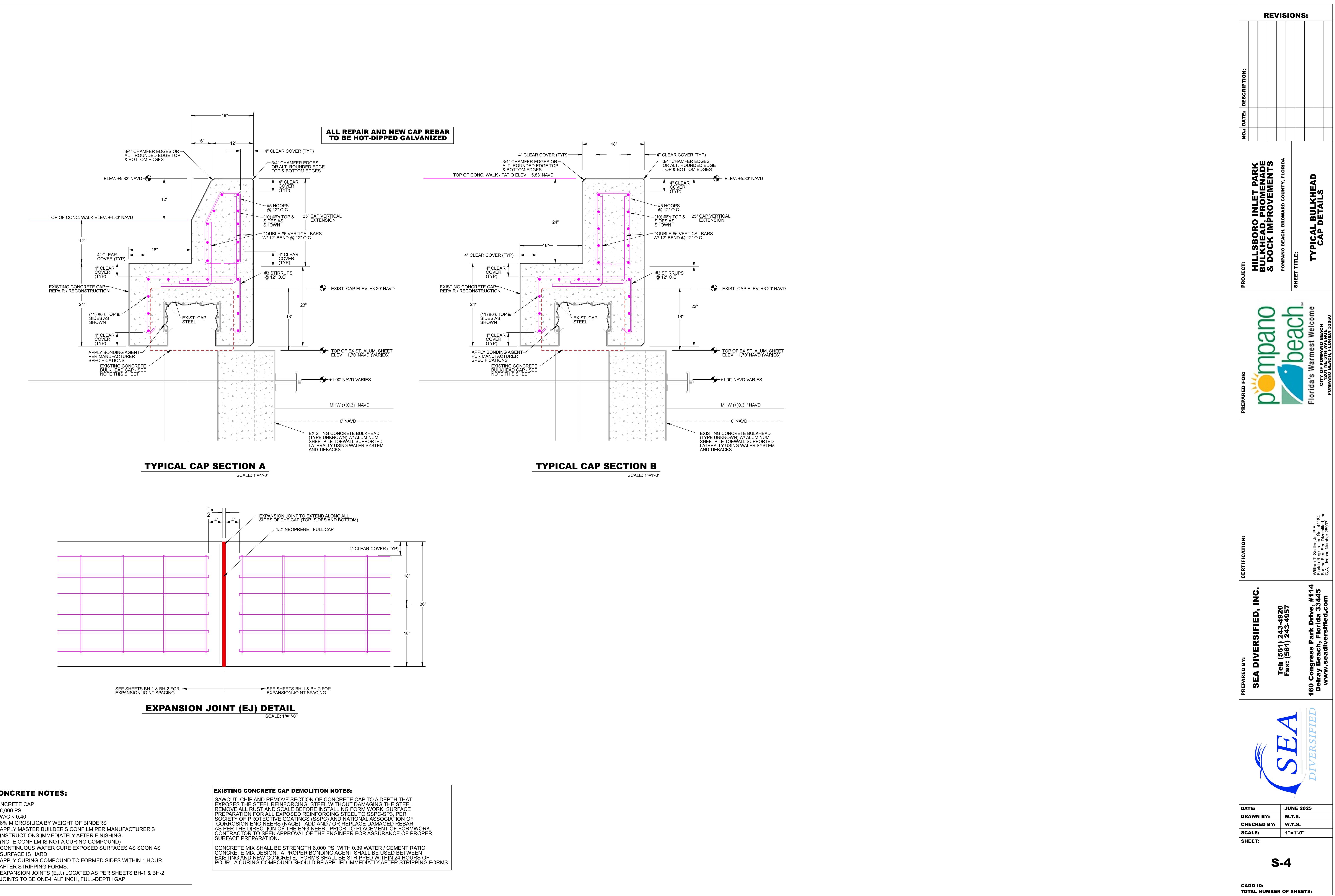
DESIGN WATER DEPTH:
-6.0 FEET MLW (MARGINAL DOCKS & PIERS)
-9.0 FEET MLW (WAHOO BAY FISHING PIER)

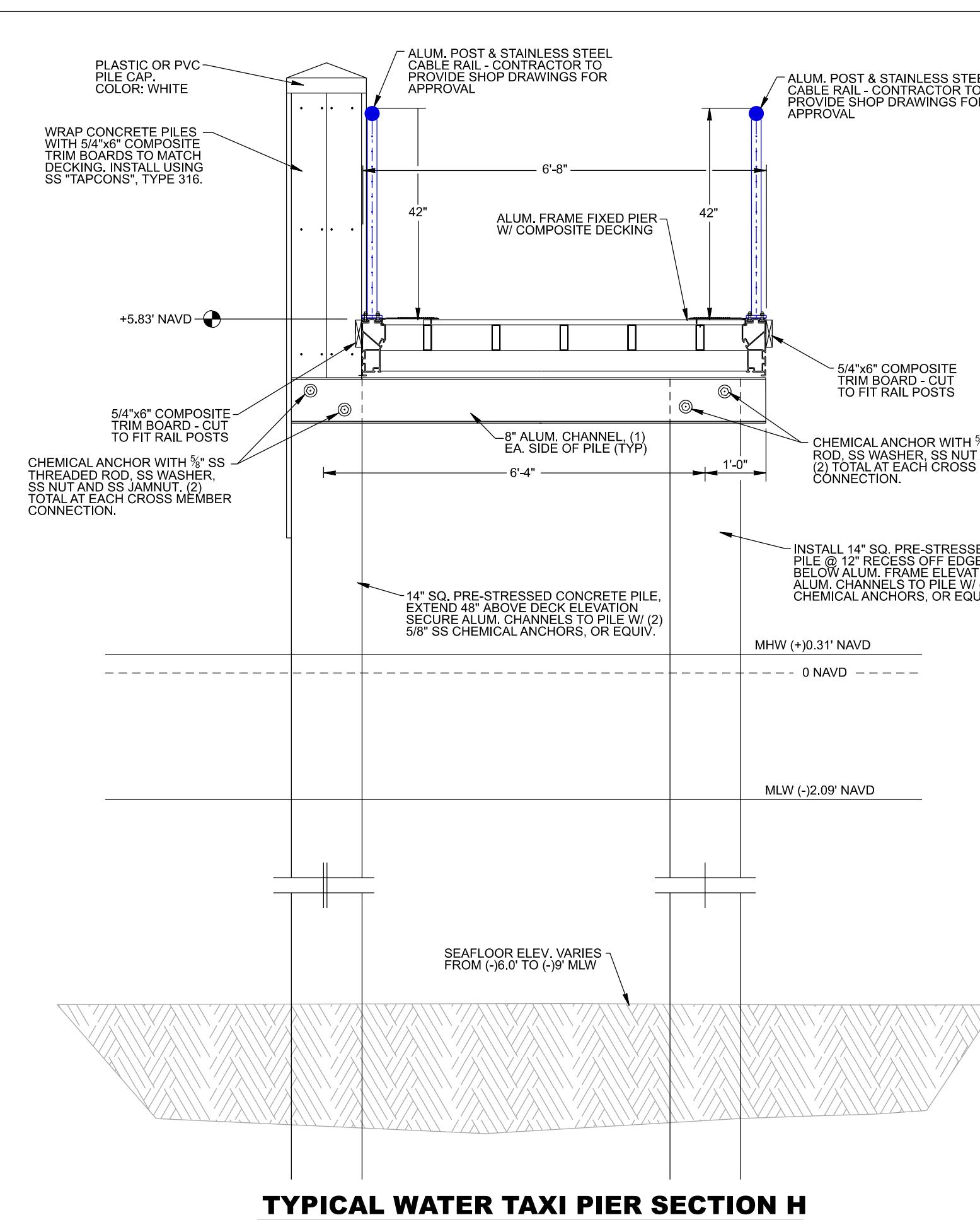
SERVICE LIFE: 30 YEARS

NOTES:

1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023)
FLORIDA BUILDING CODE

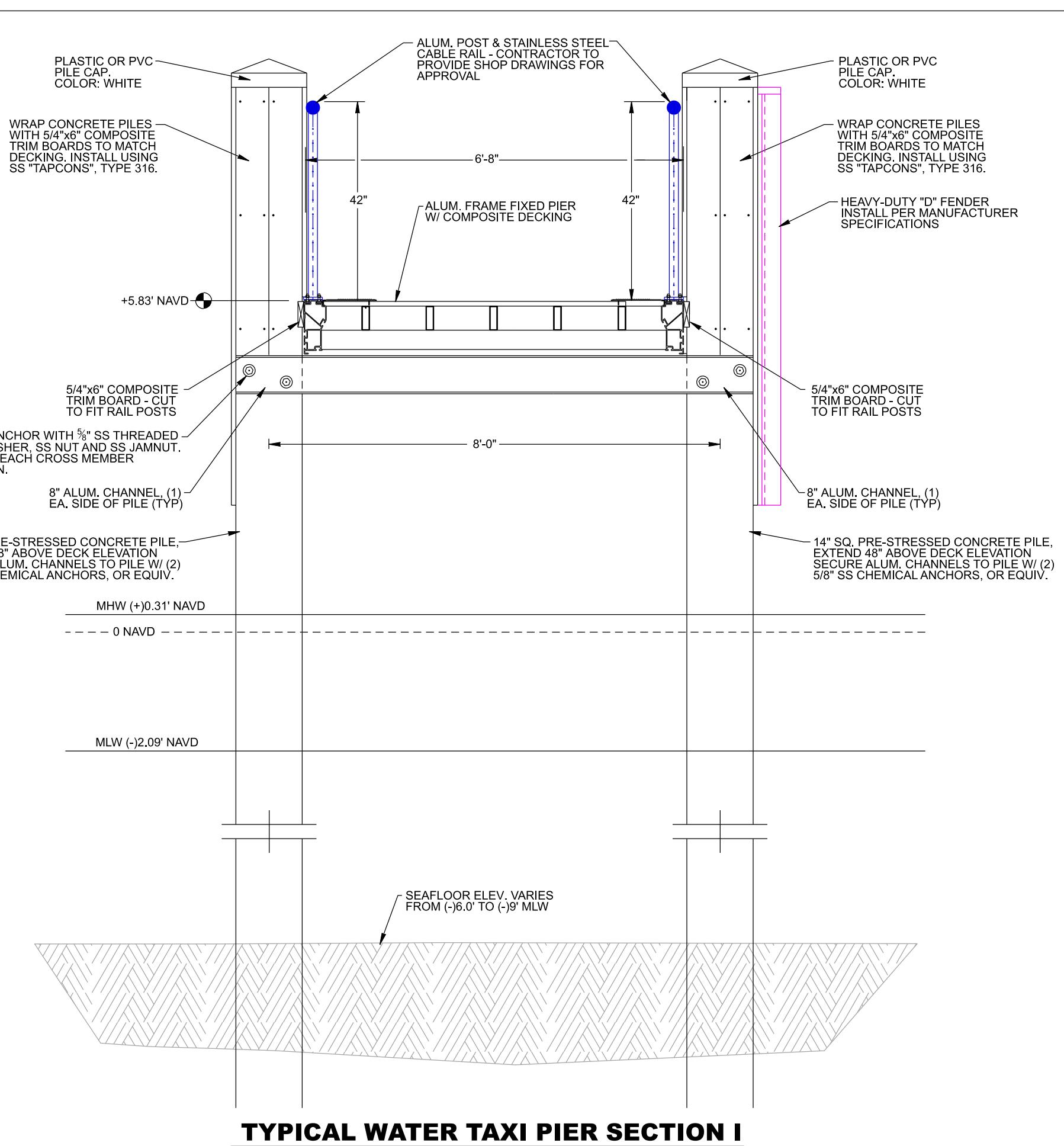
S-3





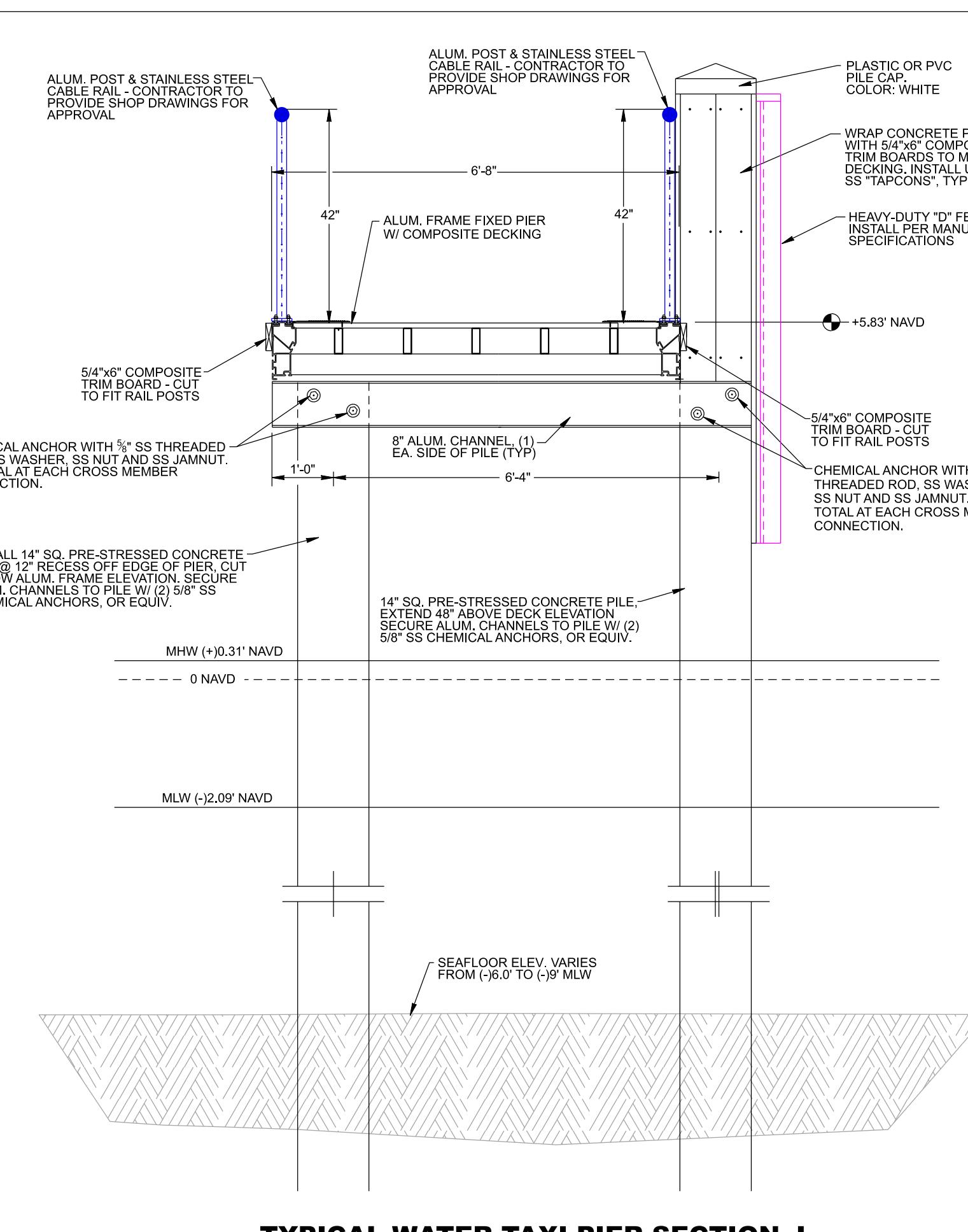
TYPICAL WATER TAXI PIER SECTION H

SCALE: 1'-0"



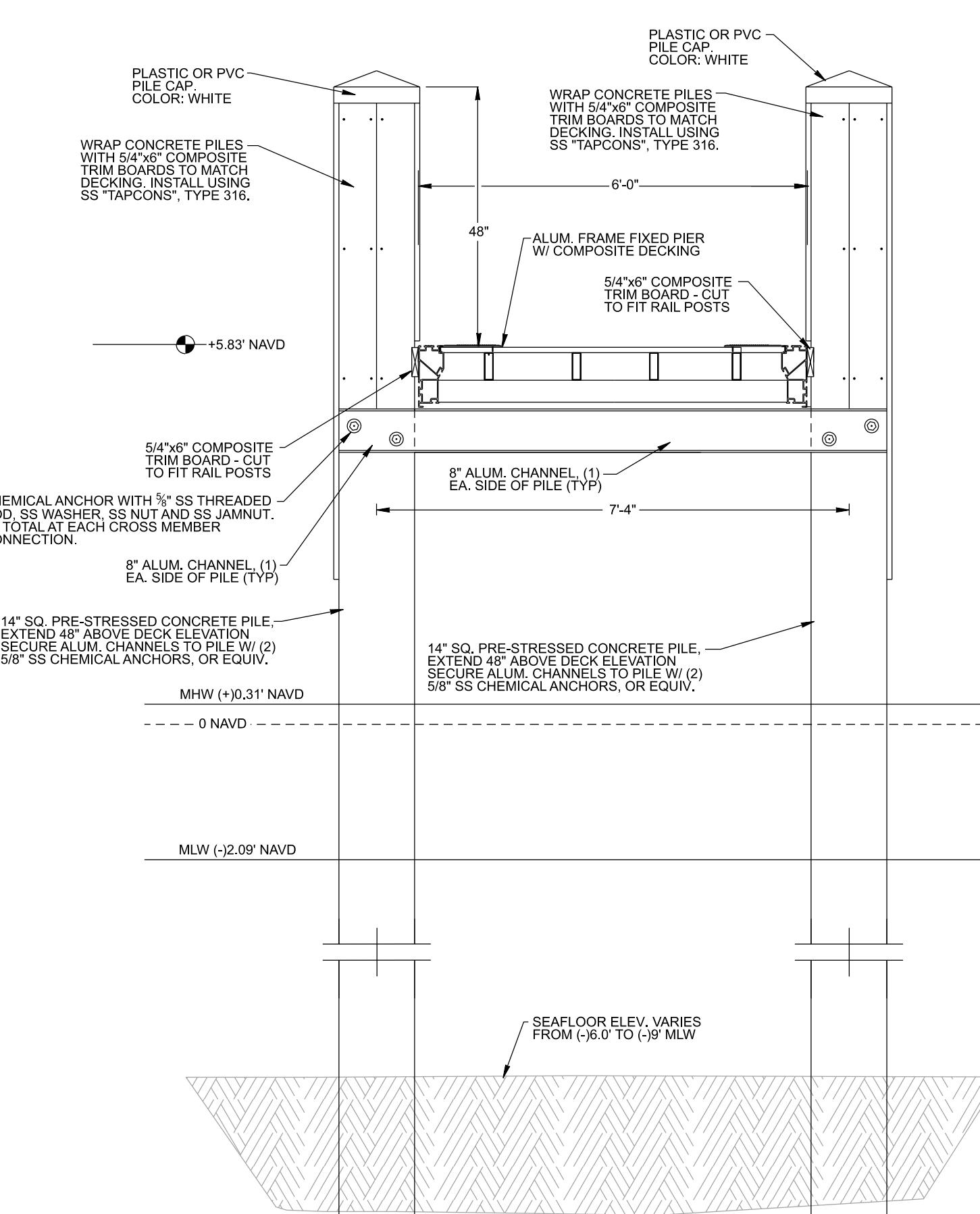
TYPICAL WATER TAXI PIER SECTION I

SCALE: 1'-0"



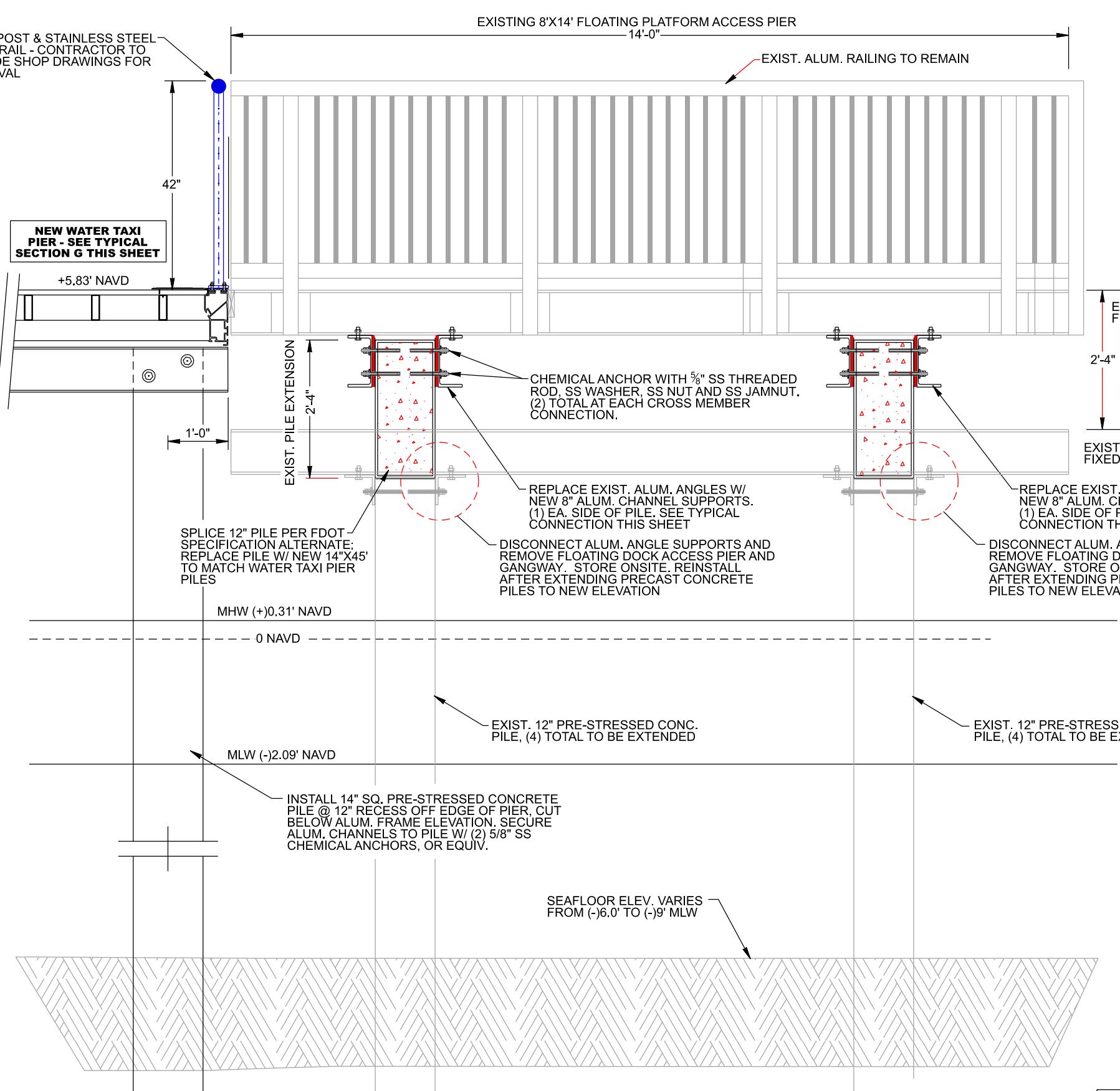
TYPICAL WATER TAXI PIER SECTION J

SCALE: 1'-0"



TYPICAL FINGER PIER SECTION K

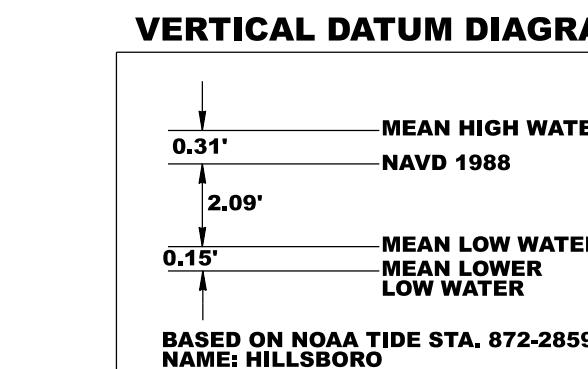
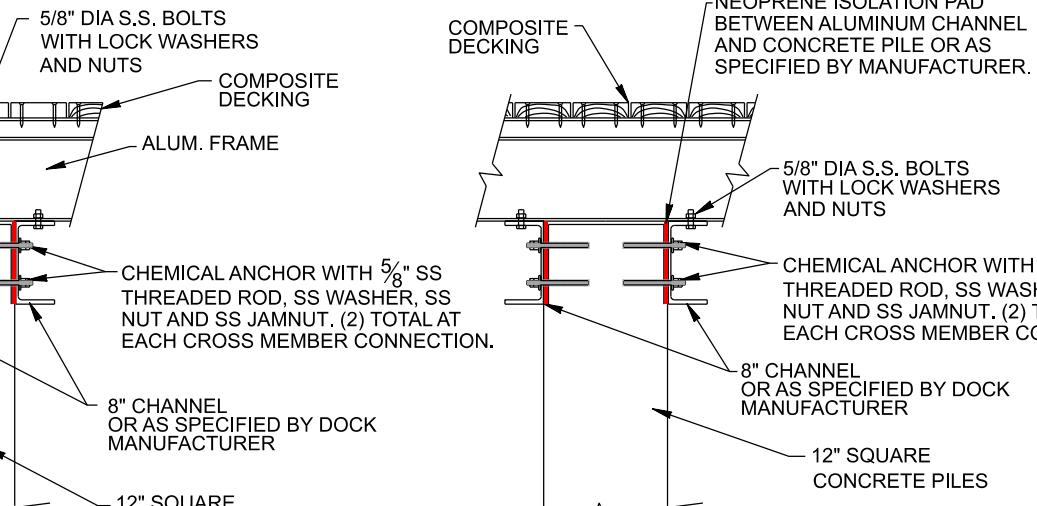
SCALE: 1'-0"



**SECTION L
FLOATING PLATFORM ACCESS
PIER MODIFICATION DETAIL**

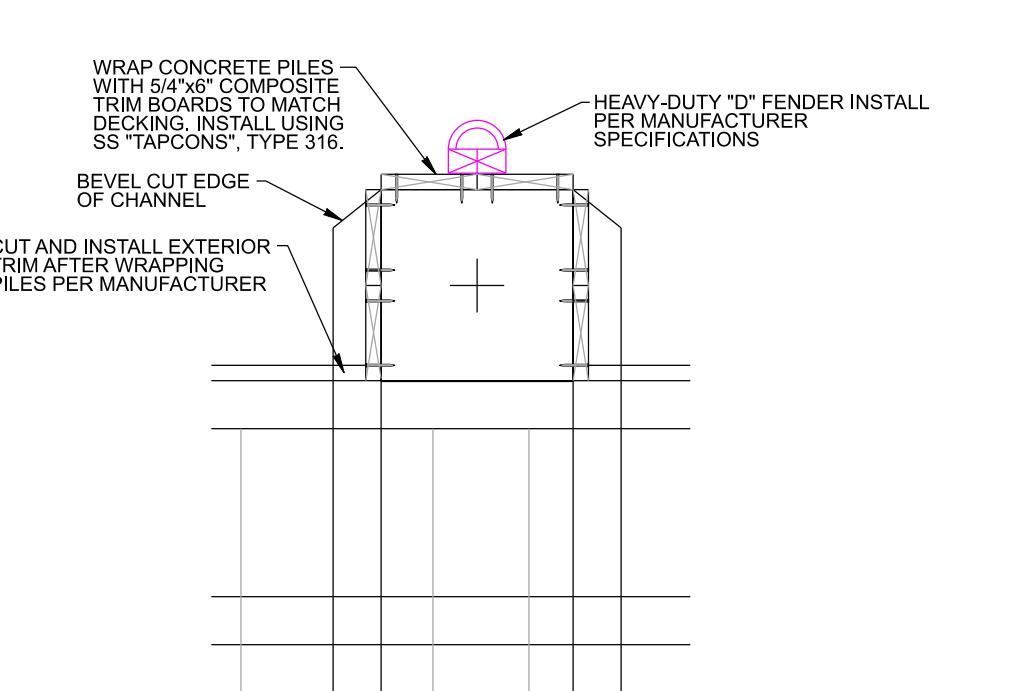
SCALE: 1'-0"

DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.



ALUMINUM FRAME JOINT AND MID-SPAN CONNECTION DETAILS

NOTE: CONTRACTOR TO INSTALL 1/8" NEOPRENE BUFFER PAD BETWEEN ALL ALUMINUM TO CONCRETE CONNECTIONS



PILE WRAP DETAIL

DESIGN CRITERIA

LIVE LOAD CRITERIA: 100 PSF, 400-LB POINT LOAD, FIXED STRUCTURES, PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA: 3 ETTE'S SECOND (PULL)

10 DEGREE APPROACH ANGLE FOR SLIPS, 30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA: LOADS ARE TO BE COMPANY: N/A UNLOADED, ZERO OCCUPANCY; WIND SPEED: 155 MPH (3-SECOND GUST) RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22

WAVE LOAD CRITERIA: 0.6 DEGREE APPROACH ANGLE, DIRECTIONAL WAVE HEIGHT (Hs): 3.6 FEET WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA: 2.0 FEET/SECOND (FPS)

WATER LEVEL DATA: MHW: +0.31 FEET NAVD MLW: -2.09 FEET NAVD

DESIGN WATER DEPTH: 0.0 FEET (ORIGINAL DOCKS & PIERS) -0.9 FEET MLW (WAHOO BAY FISHING PIER)

SERVICE LIFE: 30 YEARS

NOTES: 1. LIMITED FETCH BY USACE S.P.M. 1984 2. DURATION AVERAGE WIND (50 MINUTES) 3. DURABILITY CLASS: 100 YEARS 4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023) FLORIDA BUILDING CODE

**PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25**

REVISIONS:	
NO.:	DATE: DESCRIPTION:

PROJECT:	HILLSBORO INLET PARK BULKHEAD & DOCK IMPROVEMENTS POMPANO BEACH, BROWARD COUNTY, FLORIDA
SHEET TITLE:	POMPANO BEACH Florida's Warmest Welcome CHIEF ENGINEER: JEFFREY A. WILSON POMPANO BEACH, FLORIDA 33060

PREPARED FOR:	SEA DIVERSIFIED, INC.
CERTIFICATION:	BASED ON NOAA TIDE STA. 872-2859 NAME: HILLSBORO

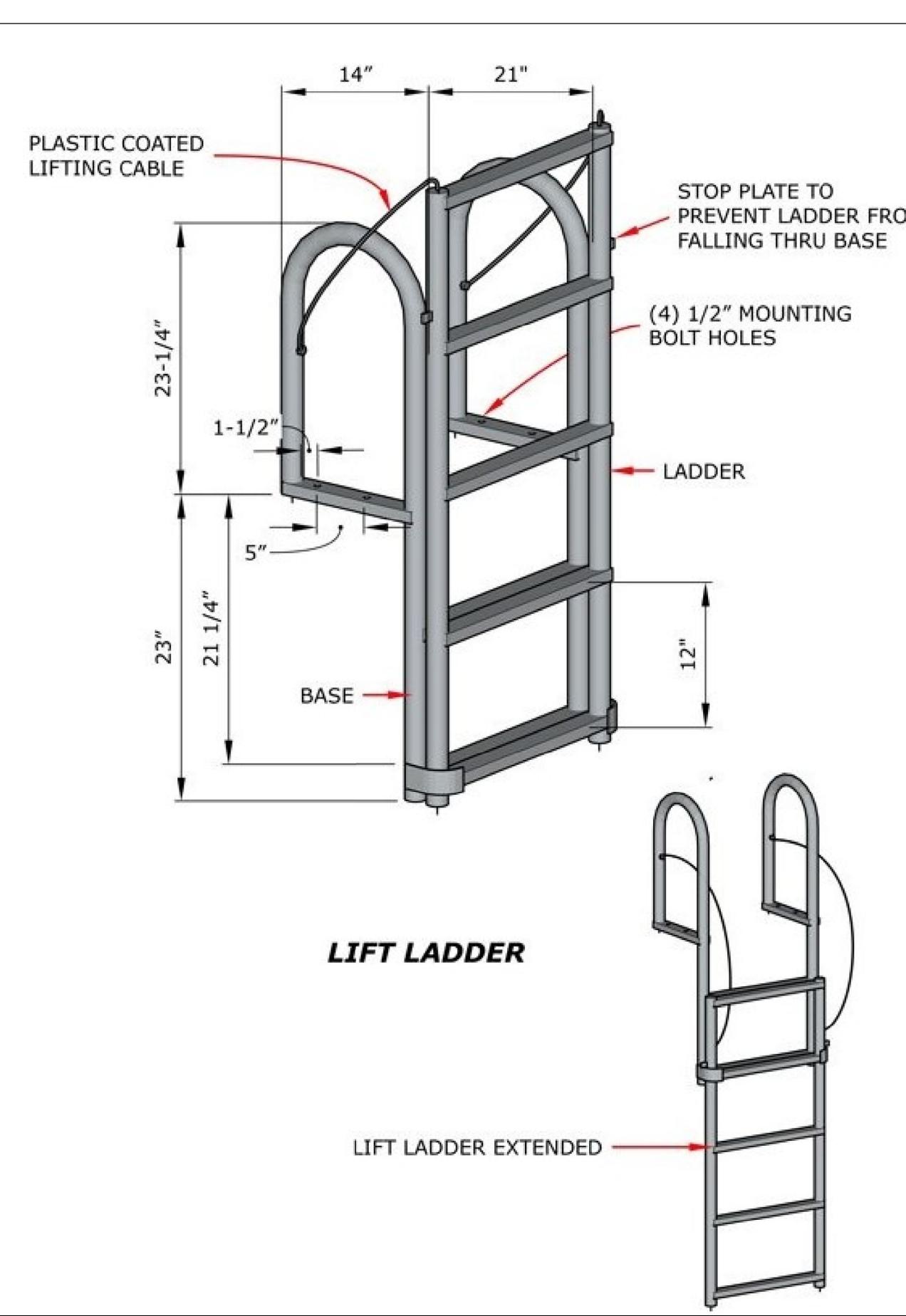
PREPARED BY: SEA DIVERSIFIED, INC. Tel: (561) 243-4920 Fax: (561) 243-4957
160 Congress Park Drive, #14 Delray Beach, Florida 33445 www.seadiversified.com

DATE: JUNE 2025
DRAWN BY: W.T.S.
CHECKED BY: W.T.S.
SCALE: 1'-0"
NOTE: SHEET NUMBER OF SHEETS: 1

S-5

CADD ID: TOTAL NUMBER OF SHEETS: 1

SDI P.N. 24-3350



TYPICAL LADDER DETAIL

(AS SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, OR EQUIVALENT)



TYPICAL WATER STANCHION

(AS SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDER SUPPLY, OR EQUIVALENT)



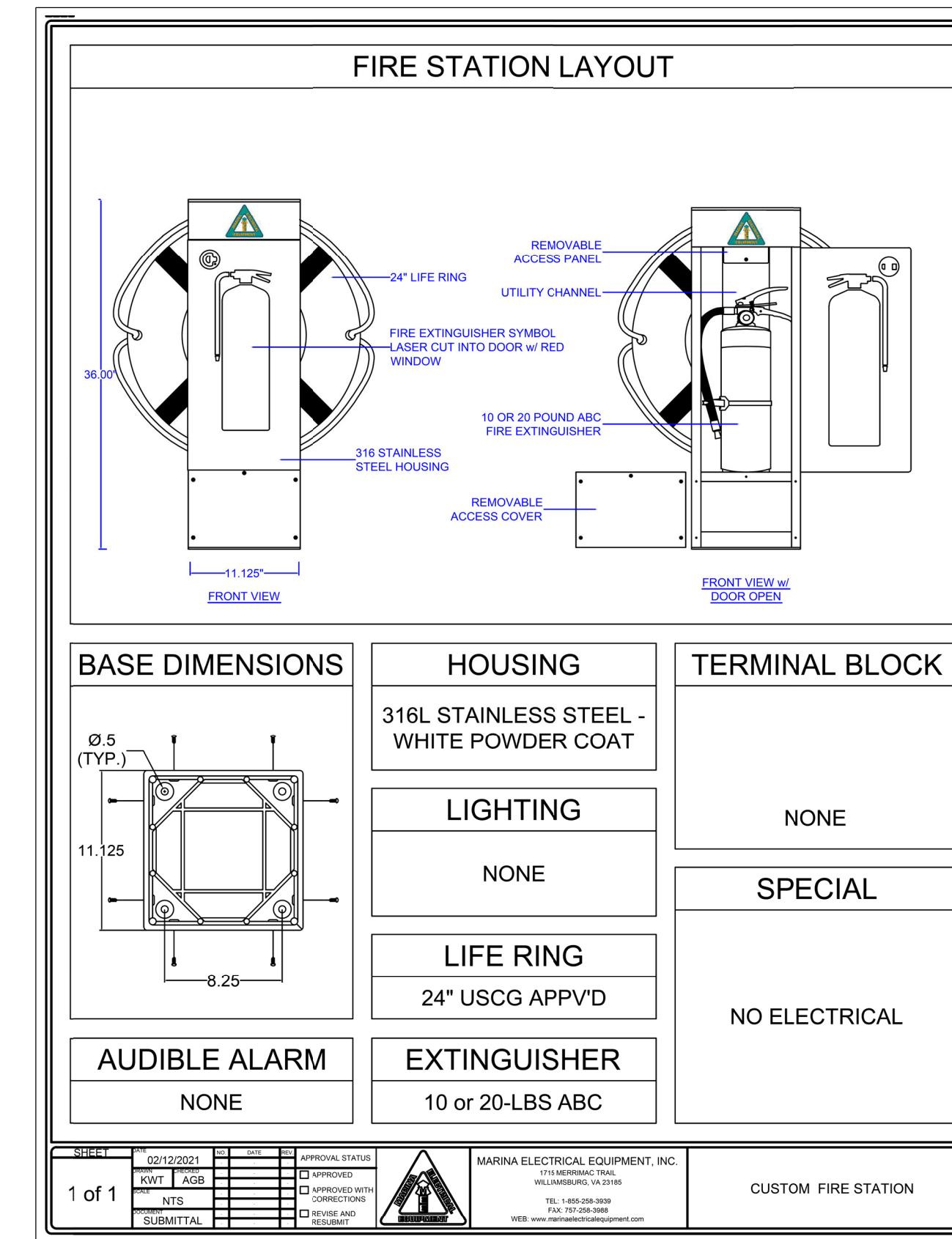
EXISTING ALUMINUM W/ STAINLESS STEEL CABLE RAIL SYSTEM

**(CONTRACTOR TO MATCH FOR RAILS ON THE WATER TAXI DOCK,
FISHING PIER EXTENSION & RAILS ALONG TOP OF BULKHEAD.
ALL OTHER RAILS PER DETAILS PROVIDED. HEREIN.)**



TYPICAL FIRE EXTINGUISHER CABINET

**(AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION
OR EQUIVALENT)**



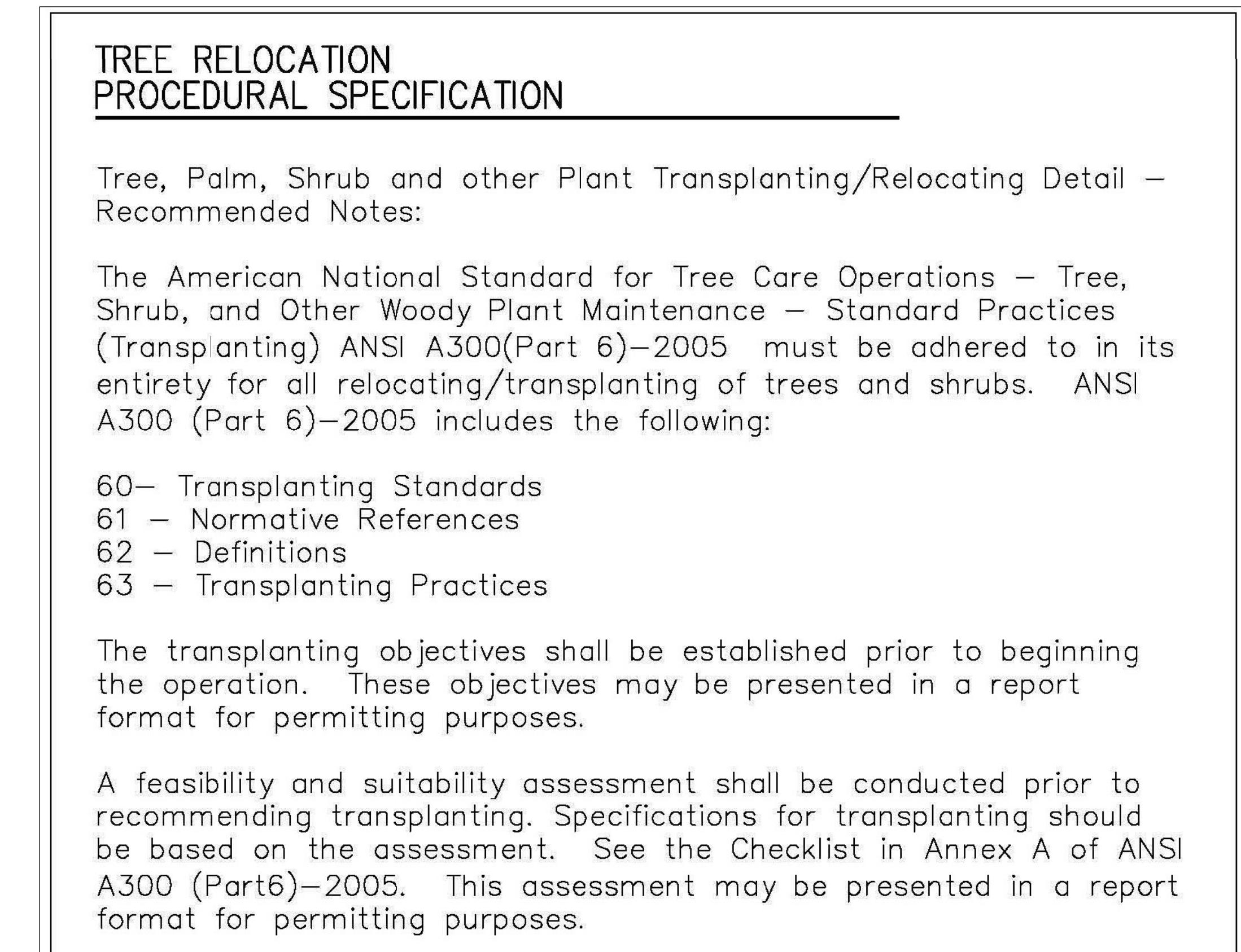
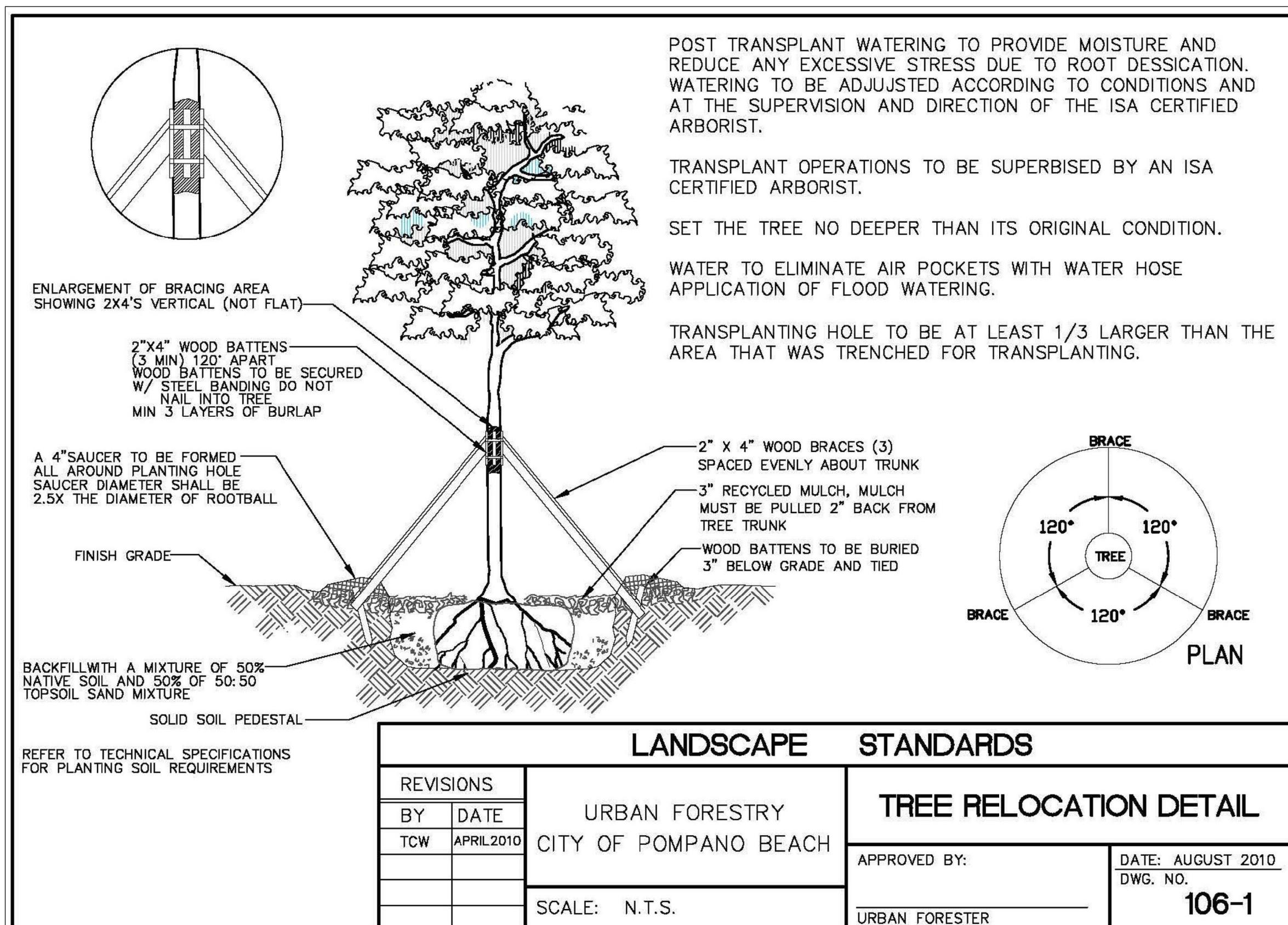
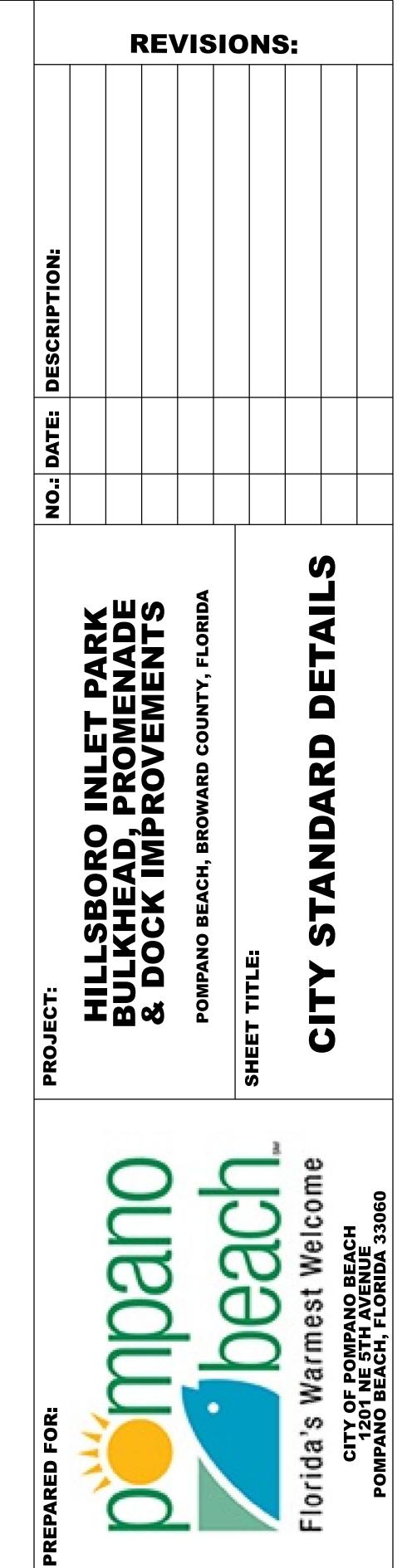
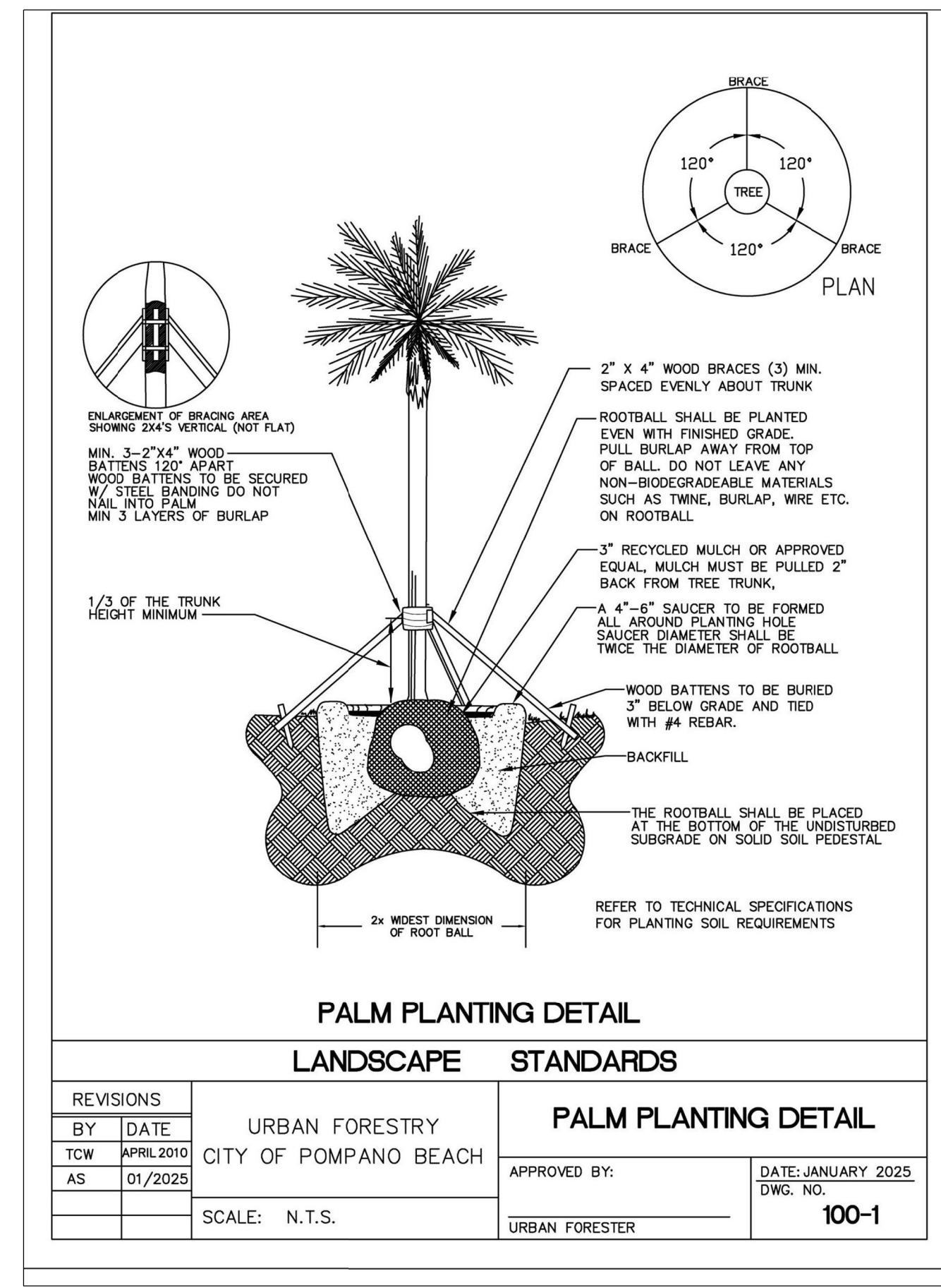
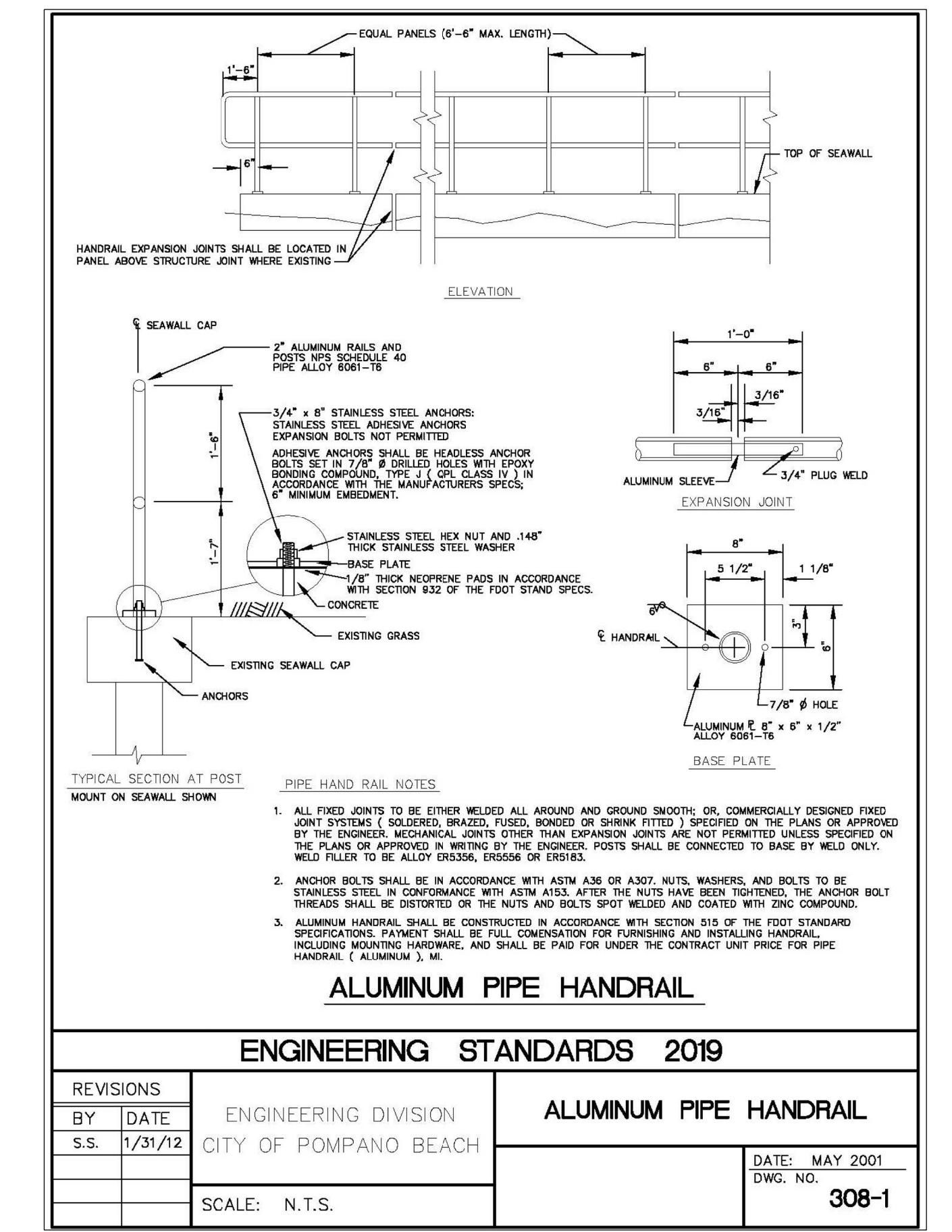
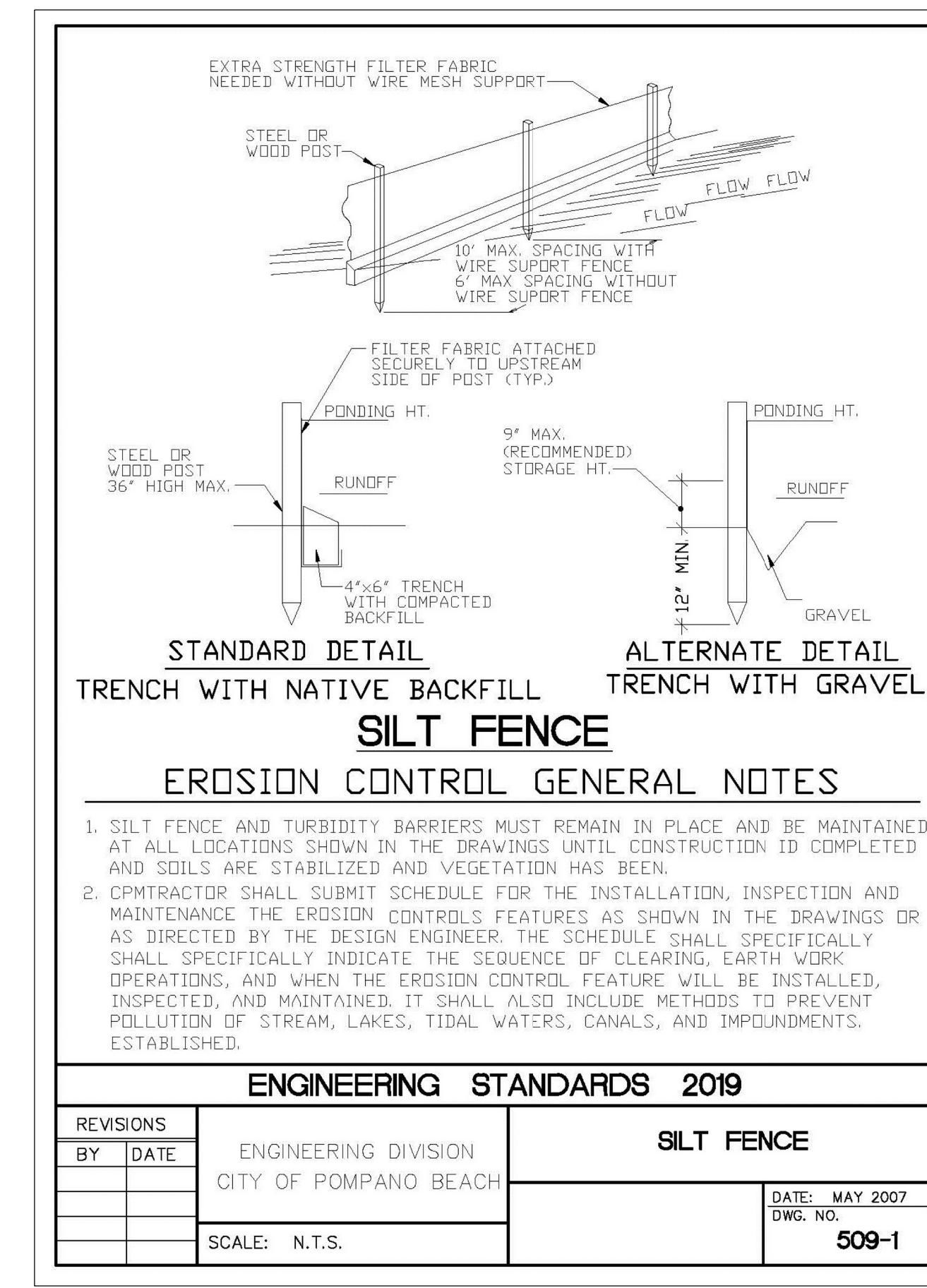
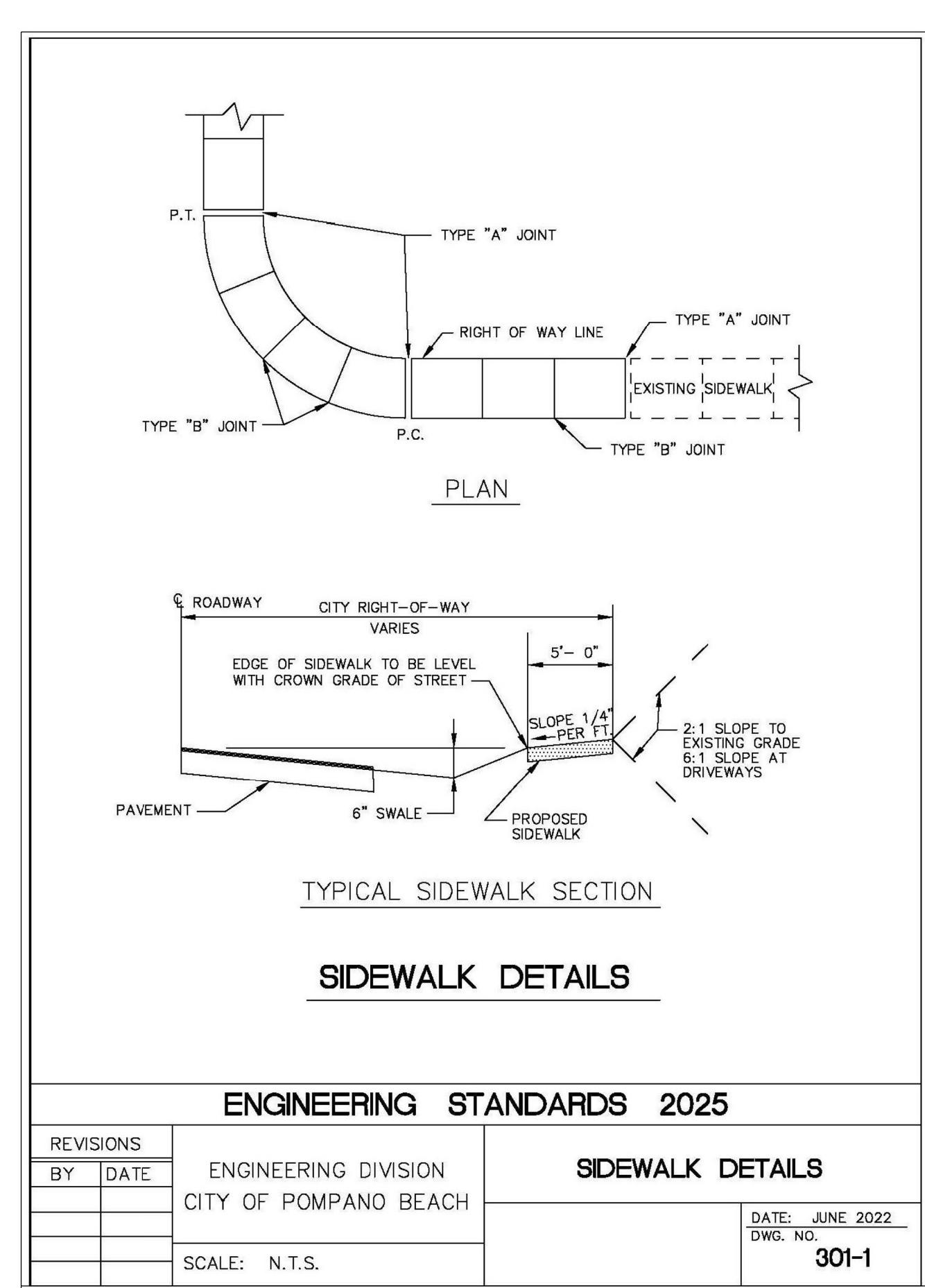
TYPICAL FIRE EXTINGUISHER CABINET DETAIL (ALTERNATE WITHOUT LIGHT & ALARM)

**(AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION
OR EQUIVALENT)**

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

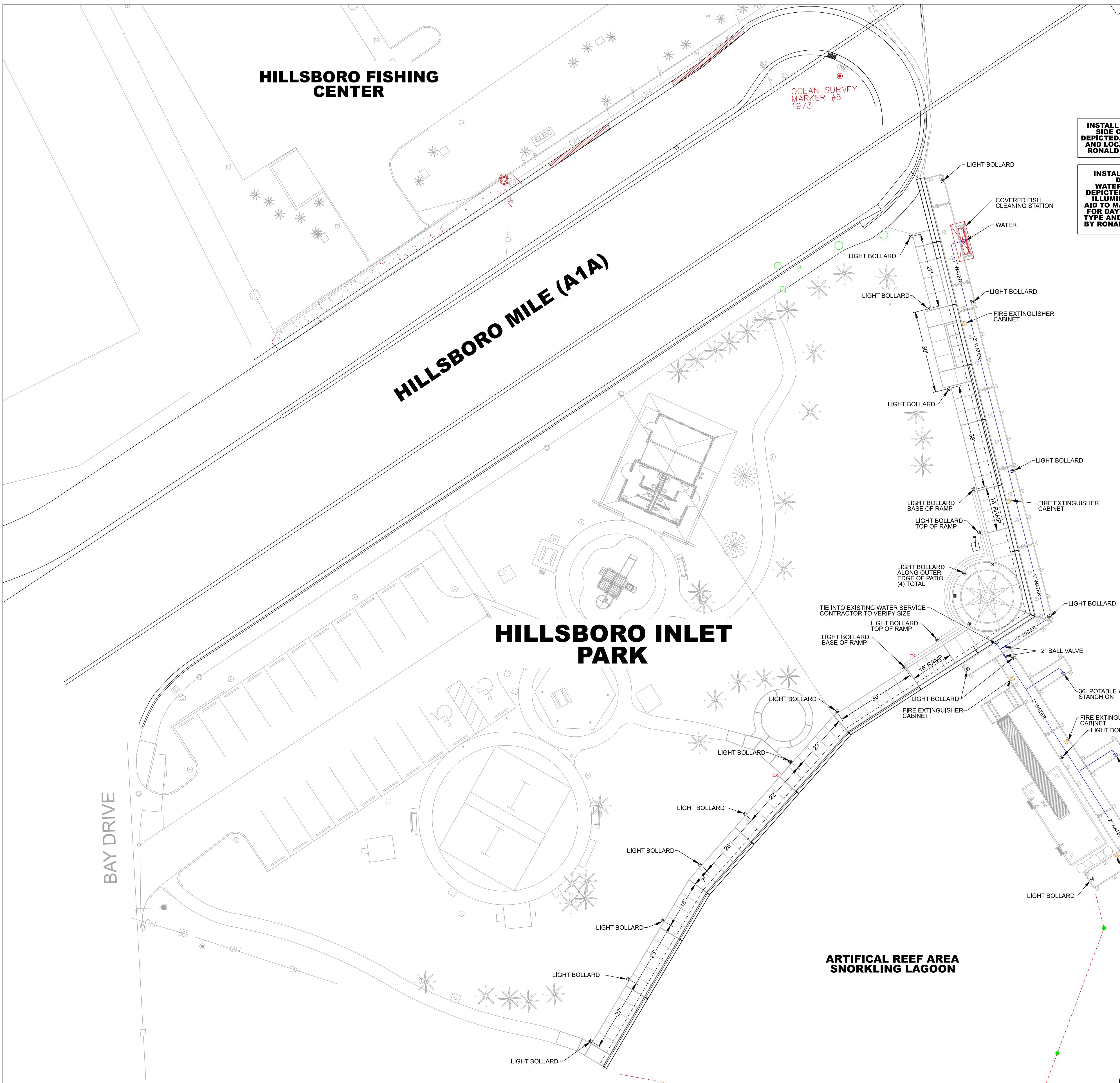
BULKHEAD, PROMENADE & DOCK IMPROVEMENTS	
POMPANO BEACH, BROWARD COUNTY, FLORIDA	
STANDARD DETAILS	
SHEET TITLE:	
160 Congress Park Drive, #114 Delray Beach, Florida 33445 www.seadiversified.com	
Tel: (561) 243-4920 Fax: (561) 243-4957	
JUNE 2025	
BY: ED BY:	W.T.S. W.T.S.
1"=10'	
DIVERSIFIED	
M-1	

NUMBER OF SHEETS:



**PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25**

M-2



WAHOO BAY

INSTALL (8) LIGHT BOLLARDS ALONG LANDWARD SIDE OF CONCRETE WALKWAY. LOCATION AS DEPICTED, HEREON IS APPROXIMATE. BOLLARD TYPE AND LOCATION PER ELECTRICAL / LIGHT PLANS BY RONALD LEVINSON, P.E., CONSULTING ENGINEER.

INSTALL (5) LIGHT BOLLARDS ALONG MARGINAL DOCK & (5) LIGHT BOLLARDS ALONG WATERFRONT ROCK WALL APPROXIMATE LOCATIONS DEPICTED, HEREON FOR PURPOSES OF ILLUMINATING DOCK & PIER STRUCTURES AS AN AID TO MARINERS. HILLSBORO PARK IS DESIGNATED FOR MARINERS AS AN AID TO MARINERS. BOLLARD TYPE AND LOCATION PER ELECTRICAL / LIGHT PLANS BY RONALD LEVINSON, P.E., CONSULTING ENGINEER.

**HILLSBORO
INLET**



TYPICAL 36" WATER STANCHION
4"X4" ALUMINUM POST W/ 8"X8" ALUMINUM BASE PLATE
POWDER COATED WHITE
Hose Spigot: 1/2" NPT
Optional: Single Hose Bibb
Supplier: INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, HAVEN DOCK & MARINE, OR
APPROVED EQUAL



TYPICAL FIRE EXTINGUISHER CABINET
STAINLESS STEEL
POWDER COATED WHITE
LIGHT & ALARM OPTIONAL
SUPPLIED BY MARINA ELECTRICAL EQUIPMENT,
EATON CORPORATION, OR APPROVED EQUAL

**DRAFT
6.10.25**

REVISIONS:	
NO.:	DATE:

PROJECT:	HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
SHEET TITLE:	LIGHTING, WATER & FIRE



Florida's Warmest Welcome
CITY OF POMPANO BEACH
POMPANO BEACH, FLORIDA 33060

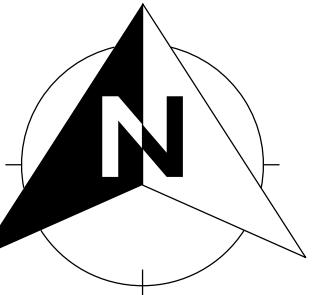
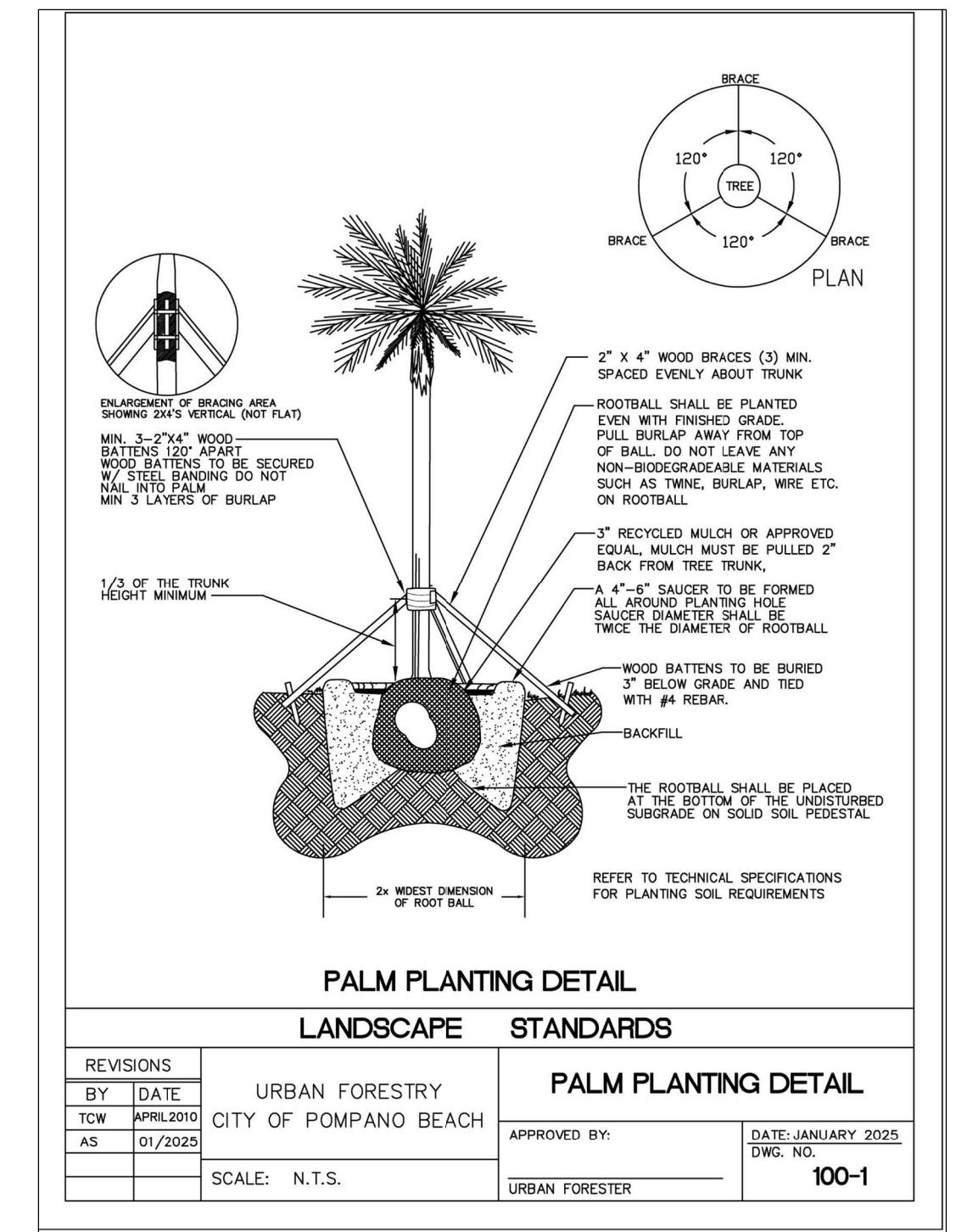
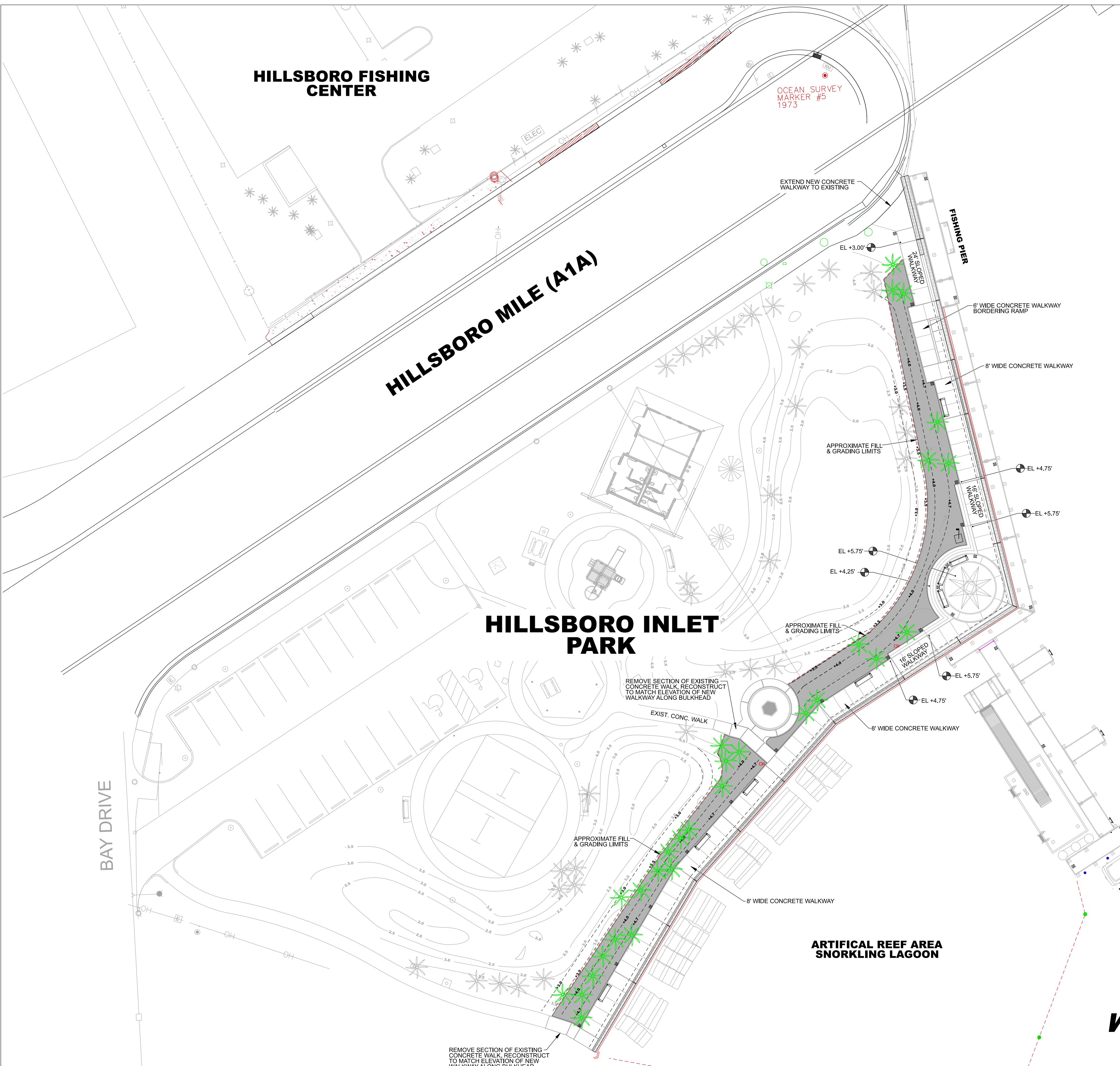
PREPARED BY:	CERTIFICATION:
SEA DIVERSIFIED, INC. Tel: (561) 243-4920 Fax: (561) 243-4957 160 Congress Park Drive, #14 Delray Beach, Florida 33445 www.seadiversified.com	William T. Sandler, P.E. Florida State Registered, No. 41184 For the Firm Sea Diversified, Inc. C.A. License Number 23031



DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'
SHEET:	U-1

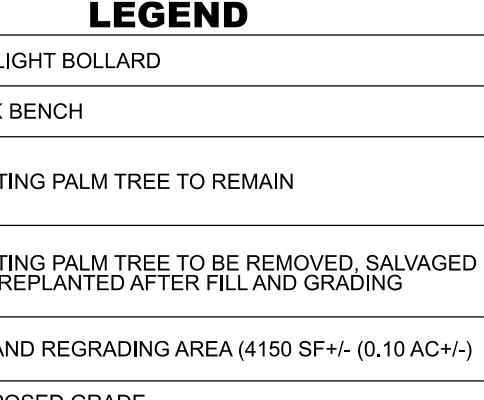
CADD ID:
TOTAL NUMBER OF SHEETS:
SDI P.N.: 24-3350

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.



REVISIONS:	
NO.:	DATE:
DESCRIPTION:	
PROJECT: HILLSBORO INLET PARK BULKHEAD & DOCK IMPROVEMENTS	
SHEET TITLE: LANDSCAPE PLAN	
SHEET NUMBER: 100-1	
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA	
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA	
POMPANO BEACH, Florida's Warmest Welcome	
160 Congress Park Drive, #1445 Delray Beach, Florida 33445	
www.seadiversified.com	
PREPARED FOR:	CERTIFICATION:
SEA DIVERSIFIED, INC.	
Prepared by: SEA DIVERSIFIED, INC.	Certified by: <i>[Signature]</i>
Tel: (561) 243-4920	
Fax: (561) 243-4957	
DATE: JUNE 2025	
DRAWN BY: W.T.S.	
CHECKED BY: W.T.S.	
SCALE: 1"=20'	
SHEET: L-1	
CADD ID: SDI P.N. 24-3350	
TOTAL NUMBER OF SHEETS: 1	

**PLAN SET ISSUED FOR
BIDDING PURPOSES 6.25.25**



William F. Suddie, Jr., P.E.
Florida Professional Engineer No. 71184
For the First Sea Diversified, Inc.
C.A. License Number 23037

SEA DIVERSIFIED

DATE: JUNE 2025

DRAWN BY:

CHECKED BY:

SCALE:

SHEET:

L-1

CADD ID:

SDI P.N. 24-3350

TOTAL NUMBER OF SHEETS:

1

TECHNICAL SPECIFICATIONS
Prepared by Sea Diversified, Inc.
Date: June 25, 2025

Prepared to Accompany Plans prepared by Sea Diversified, Inc. dated June, 2025.

ARTICLE 1 - PROJECT DESCRIPTION

1. The project includes repairs to the concrete bulkhead, which includes demolition and reconstruction of the existing concrete cap at a higher elevation. The project also includes the replacement of existing timber piers along with the addition of a new marginal dock. The new piers and dock will be pre-manufactured frame systems, including the new concrete pier piles. Along with the replacement of the bulkhead, the project will include reconstruction of the concrete walkway bordering the landward side of the bulkhead cap. The new walkway will be rebuilt wider and at a higher elevation. Aluminum frame fixed docks must be supplied by a qualified aluminum dock manufacturer, herein referred to as the MANUFACTURER, with demonstrated experience in the design and fabrication of aluminum frame fixed docks and related to the project. The extent of the project is shown on plans prepared by Sea Diversified, Inc. (ENGINEER).

The MANUFACTURER is responsible for the design, fabrication and delivery of fixed aluminum docks and associated dock components such as cleats, fendering and applicable hardware and installation components.

The CONTRACTOR shall be responsible for the installation of the pre-manufactured aluminum frame structures including all supply, piling in accordance with the MANUFACTURER's supplied shop drawings and Installation Manuals. Plans and specifications shall be prepared by the ENGINEER, and referred to the pre-manufactured aluminum frame structures show the general extent of work. Installation of aluminum frame structures shall be in strict accordance with shop drawings, Installation Manuals and / or dictated by the MANUFACTURER.

2. The CONTRACTOR is required to coordinate and cooperate with the MANUFACTURER, CITY staff and consultants pertaining to all components of the project including but not limited to product manufacturing delivery schedules, utility installations and project inspections. Additionally, the CONTRACTOR must note and understand that the project may be conducted while existing Park activities are ongoing and such activities must be maintained with little or no disruption.

ARTICLE 2 - GENERAL NOTES

1. All elevations are in feet and referenced to the North American Vertical Datum of 1988 (NAVD 88) or Mean Low Water (MLW), as specifically noted on the plans.

2. Any deviation from these plans, notes or specifications must be approved in writing by the ENGINEER, or else the deviation will be considered construction not in compliance with the plans and specifications.

3. Any discrepancies among the plans, notes, specifications and other bid documents must be resolved in writing by the ENGINEER prior to continuing work in question.

4. These plans, notes and specifications, along with the other components of the project documents, constitute the only instructions to the CONTRACTOR, unless written addenda are issued.

5. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in applicable local, state and federal codes, and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the ENGINEER for review and approval prior to construction.

6. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.

7. CONTRACTOR must attend a kick-off meeting with the ENGINEER, Representatives(s) of the CITY, sub-contractors, MANUFACTURER and others requested by the CITY to discuss critical items prior to commencing with construction.

ARTICLE 3 - MOBILIZATION AND DEMOBILIZATION

1. It is understood that the nature of the project will require work over water and access to construction areas are required for material storage, hauling, erection or construction. All facilities, public or private, used for such purposes shall be maintained and repaired to the original form after completion of project activities.

2. The CONTRACTOR shall present a Shipping, Stockpile and Administration Plan (SSAP) to the ENGINEER for approval. The plan shall be specific to the project requirements for the particular materials to be delivered to the site, describing delivery points, stockpile areas, temporary debris/trash storage areas, temporary field office (incl. utilities maintained there), fencing, security and a statement of commitment to maintaining safety on the site.

3. The CONTRACTOR shall note that the MANUFACTURER will have designated and pre-established areas for product delivery, storage, assembly and possibly manufacturing, all or in part. The CONTRACTOR's staging plan must be prepared in coordination with the MANUFACTURER's staging plan to avoid conflicts during construction.

4. The CITY or ENGINEER shall have the right to exercise reasonable alterations or additions to the plans (SSAP).

5. The site surroundings shall be returned to original grade and topping (sod, tree cover, established road, etc.) following "Completion" of the project. "Completion" as defined as completion of an agreed upon list of punchlist items compiled in a planned project walkthrough held at a time the CONTRACTOR considers the project to be "Substantially Complete".

6. It is the CONTRACTOR's responsibility to coordinate, and pay for, necessary utilities to occupy the site and perform the work.

ARTICLE 4 - SITE MAINTENANCE AND SAFETY

1. The CONTRACTOR shall maintain a clean and neat site, void of loose debris, trash, remnant parts or materials.

2. Trash receptacles and removal service shall be maintained by the CONTRACTOR specifically for this project. Existing such facilities shall not be used to maintain the project.

3. Temporary debris piles shall be limited in number as much as practical and contained in designated areas until removal. Debris and trash shall not be scattered in areas outside the limited designated areas at any time.

4. Removal of debris/trash shall be scheduled as appropriate to not allow piles to reach five feet in height or greater than ten feet in diameter. Debris individually larger than these dimensions shall be removed from the site within five working days. Receptacles shall not be allowed to overflow at any time.

5. The CONTRACTOR shall prepare and submit a Maintenance of Traffic Plan that applies to vessels, vehicles and pedestrians. The plan must be in writing, including sketches or drawings, and must be submitted to the ENGINEER for review and approval before commencement of the plan.

6. The CONTRACTOR shall note that this project consists of work adjacent to a typical park activities that will continue to operate and be open to the public to some extent during construction. The safety of pedestrians, CITY staff is of primary concern and must be addressed by the CONTRACTOR. The CONTRACTOR shall prepare a safety plan for approval by the ENGINEER and CITY.

7. Where applicable, CONTRACTOR to use steel kevlar boots, long sleeve pants, gloves, hardhat, safety kit, etc.

8. CONTRACTOR to make note of nearest hospital and quickest route.

9. CONTRACTOR to assure availability of at least one working cell phone and one serviceable vehicle on site at all times.

10. The CONTRACTOR shall follow all applicable local, state and federal codes regarding site safety and maintenance.

ARTICLE 5 - ENVIRONMENTAL

1. A Florida Department of Environmental Protection (FDEP) Permit, U.S. Army Corps of Engineers (USACE) Permit and Broward County License exert jurisdiction of the project. The CONTRACTOR shall request all permits prior to the start of construction from the ENGINEER or the CITY and review prior to any construction activities.

2. The CONTRACTOR shall be responsible for complying with applicable restricting permit conditions imposed by the state, federal government and the County.

3. The CONTRACTOR shall pay particular attention to the standard state conditions for manatee protection during construction and shall comply with them fully.

ARTICLE 6 - GEOTECHNICAL

1. A geotechnical study was conducted by Nutting Engineers that included a single Standard Penetration Test (SPT) boring at an upland location in close proximity to the bulkhead.

2. Should CONTRACTOR encounter sub-surface soil conditions that differ from that described in the Geotechnical Report prepared by Nutting Engineers, dated July 2020, or from the results of the field test programs, the CONTRACTOR shall cease operations and promptly notify the ENGINEER.

3. The CONTRACTOR in coordination with the ENGINEER may be responsible for a test pile program to verify sub-surface soil characteristics related to pile driving characteristics. Details of the optional test pile program are outlined, herein.

4. The CONTRACTOR shall note that the sub-surface soil conditions may vary throughout the project area and that piles are to be driven to achieve the required pile penetration dictated by the ENGINEER regardless of soil conditions. The CONTRACTOR must note that there is no provision for encountering unforeseen soil conditions.

ARTICLE 7 - CONSTRUCTION SURVEYING

1. The CONTRACTOR is responsible for horizontal / vertical control establishment, construction layout or any other survey effort required to complete the project. If requested by the CONTRACTOR, the ENGINEER will provide the CONTRACTOR existing site benchmark information for reference.

2. Method of continuing layout and control of work to be submitted to ENGINEER for approval prior to beginning construction.

3. The CONTRACTOR is advised that certification of the project elevation and alignment is required for final acceptance of work.

4. The CONTRACTOR will be required to provide a final AASHTO survey after construction. The survey must be conducted and certified by a State of Florida licensed Surveyor and Mapper.

ARTICLE 8 - CONSTRUCTION SEQUENCING AND HOURS OF OPERATION

1. The CONTRACTOR shall provide a schedule that details the proposed sequence of construction with estimated number of calendar days and milestones for major components of work. The ENGINEER shall be notified in advance of any intended changes to construction sequencing, required alterations to overall project schedules or deviations from projected milestone dates.

2. The CONTRACTOR shall note that the CITY may limit hours of operation and require the CONTRACTOR to schedule daily work activities as necessary to minimize disruption to Park activities. Operations, including but not limited to pile driving, or other crane / large equipment related activities and activities that produce excessive noise, vibration, dust or other significant impacts, must be limited to specific times when work is ongoing in certain areas. The CONTRACTOR will work Monday through Friday, as typical, until 5:00 PM, noting that noise, vibration and air pollution must be controlled to minimize impact to the ongoing Park activities. The CONTRACTOR's bid shall take into account possible construction delays caused by temporary and partial suspensions of work relating to ongoing Park and activities as noted in this paragraph.

ARTICLE 9 - DEMOLITION AND RESTORATION

1. The CONTRACTOR shall acquire all necessary building permits from the CITY prior to commencing work.

2. Demolition work shall be conducted in accordance with plans prepared by the ENGINEER.

3. Upon completion of construction, the site shall be restored by removing and finishing all evidence of construction while maintaining temporary haul roads, stockpile areas and all other areas used for construction.

ARTICLE 10 - FIXED ALUMINUM DOCK SYSTEMS

1. The size, geometry and location of fixed aluminum structures is as depicted on the plans. Fixed dock system shall include pre-manufactured dock frames with decking, utility troughs, cleats, fendering and installation hardware. The fixed dock system and all described components shall meet or exceed criteria specified or as indicated on the Drawings. Fixed docks shall be made from heavy-duty aluminum track systems equivalent to the 950 Series supplied by CMS, Type D200 as supplied by MTI, or equal.

2. Aluminum frames shall be pre-fabricated and supplied in pre-determined sizes as described on the plans. Aluminum frames shall be delivered with decking unless otherwise specified by the MANUFACTURER.

3. Engineering Report: MANUFACTURER shall submit for approval design data for the fixed dock system. This shall be in an Engineering Report that details the results of the fixed dock system analysis as outlined herein. The Engineering Report shall be submitted to the ENGINEER or licensed professional Engineer registered in the State of Florida. Professional Engineers licensed in States other than Florida must be approved in advance by the CITY. The Engineering Report and/or other required technical submittals, as outlined in the specifications herein, must be provided within thirty (30) days of date of contract between the CITY and CONTRACTOR, unless otherwise specified in the contract. The MANUFACTURER's design data shall demonstrate that all items to be secured to the fixed dock system, either internal to the structural framing or above deck including all conduit and piping, electrical / potable water pedestals, fire standpipes and fire extinguisher cabinets, have been accounted for in the required system structural analysis.

4. Shop Drawings: The fixed docks shown in the plans shall be considered schematic in nature showing the dimensions and location of the docks in plan view. The MANUFACTURER shall provide final design details in a set of shop drawings addressing all pertinent fixed dock system specifications. Shop drawings shall be provided by a Licensed Professional Engineer registered in the State of Florida. Professional Engineers licensed in States other than Florida must be approved in advance by the CITY. Certified shop drawings, pursuant to the specifications, herein, must be provided within thirty (30) days of date of contract between the CITY and CONTRACTOR, unless otherwise specified by the CITY. Shop drawings shall depict the layout of all docks and be fully dimensioned. In addition, and at a minimum, shop drawings shall include the following:

* Material type and grade, bolt sizes, welding, coatings, colors, and other product makes and models.

* Material for decking and railings and attachment details.

* Details of all deck types and attachment items.

* Attachment details of all above dock permanent items.

* Specifications including attachment details for cleats, fendering, cross members and ladders.

* Location, specifications and layout of piling.

* Shop drawings shall include the design criteria used by the MANUFACTURER's engineer for the design of the fixed dock system including but not limited to dead / live load criteria; maximum wind speed; storm surge wave parameters; and current velocity. Design criteria shall indicate the criteria used for both occupied and unoccupied conditions.

5. General Design Parameters: The fixed dock system shall be designed to withstand the physical conditions and surroundings associated with the project site(s). It shall be the responsibility of the MANUFACTURER to evaluate the site conditions as relating to the design of the fixed dock system and to verify such factors as water level, wave height, wind speed, wave period and wavelength shall be provided by the ENGINEER for the fixed dock structures over the twenty-five (25) year minimum life expectancy of the system.

The fixed dock system without boats in place (unoccupied) shall be designed to withstand forces from a Category 4 Hurricane and associated storm surge, wind and waves. The numerical values for surge, wind, wave height, wave period and wavelength shall be provided by the ENGINEER, however it shall be the responsibility of the MANUFACTURER's engineer to review and verify this information prior to commencing the system analysis. These numerical values will serve as a record for assessing performance of the fixed dock structures over the twenty-five (25) year minimum life expectancy of the system.

6. Design Loads: The engineering analysis shall take into consideration all storm loading conditions specified above, as well as dead loads and live loads. Live load design criteria shall be 100 psf.

7. Aluminum framing: Aluminum extrusions and other components shall be marine grade aluminum alloy 6061-T6.

8. All hardware shall be stainless steel type 316.

9. Decking shall be 1.25" x 5.5" "Wear Deck" reinforced polymeric decking, "sand" color, or approved equal.

Live load capacity of decking based on a maximum span of 16' shall be 125 psf. Decking shall have a slip and wear resistant surface. Additionally, the decking material shall be rot-and warp-resistant and splinter free. The deck material supplier must provide a standard 25-year warranty for the product. Decking shall be installed with stainless steel, type 316 screws, two (2) each at all stringer locations. Screws shall be countersunk.

ARTICLE 11 - CLEATS AND LADDERS

1. Cleats shall be a minimum of cast-aluminum 15-inch, heavy-duty straight cleats. Cleats shall be stamped or riveted onto the dock frame. Length of the cleats shall be determined by the CITY. The height of the cleats shall be of the type and size to withstand the horizontal forces of the largest vessel to be docked under the design parameters specified, herein. Number and location of cleats are depicted on the plans.

2. The MANUFACTURER shall provide aluminum ladders. Number and location of ladders shall be dictated by the CITY. Ladders shall have a minimum 250-lb capacity and be made of marine-grade, aluminum alloy, type 6061-T6 or 6063. No other metals or aluminum alloy types will be considered.

ARTICLE 12 - DELIVERY, HANDLING, STORAGE AND INSTALLATION

1. Delivery: The MANUFACTURER shall be responsible for delivery of the fixed dock structures and all other pre-manufactured products. The products shall be delivered as pre-assembled modules to facilitate offsite or onsite unloading and installation. The MANUFACTURER shall take all precautions to ensure that the products are delivered in a safe and timely manner. The MANUFACTURER shall be responsible for inspecting and inspecting the condition of the products upon arrival to the site. Damaged products shall be rejected and removed from the site at the expense of the CONTRACTOR or MANUFACTURER. All products shall be delivered with an Installation Manual including all necessary hardware for the assembly and installation of the system. The Installation Manual shall include instructions, drawings and part sheets necessary for the assembly and installation of the system.

2. Deployment, Delivery and Installation: All products shall be offloaded and either stored at a secure upland location or immediately installed by the CONTRACTOR as per the handling and installation specifications provided by the MANUFACTURER. The CONTRACTOR will be responsible for the installation of the products in accordance with MANUFACTURER supplied shop drawings, Installation Manuals and other technical information, as applicable.

The MANUFACTURER will deliver the pre-manufactured products to the site or designated offsite staging area via truck. It will be the CONTRACTOR's responsibility to provide personnel and equipment to offload MANUFACTURER supplied products and install the systems as per the MANUFACTURER's supplied shop drawings and pile driving and lifting equipment. If not moved and installed immediately at the design location, the CONTRACTOR is responsible for storage of the products in such a manner to avoid damage. The CITY will not be responsible for damages caused by the handling or storage of the delivered products.

3. MANUFACTURER Representation: The MANUFACTURER shall provide a qualified representative, as they deem necessary, during the offloading, assembly and installation of the products. The MANUFACTURER's representative shall be onsite during the installation of the systems to ensure that the products are handled and installed in accordance with the applicable codes and standards. The MANUFACTURER shall be responsible for the delivery of the products to the site. The CONTRACTOR shall be responsible for requesting additional support from the MANUFACTURER. The CONTRACTOR will be responsible for the costs of any special requests for onsite visits, meetings and inspections by the MANUFACTURER.

4. CONTRACTOR - MANUFACTURER Coordination: The CONTRACTOR is responsible for coordination with the MANUFACTURER regarding installation procedures and schedules. In advance of construction, the CONTRACTOR shall provide the MANUFACTURER with the required shop drawings, Installation Manuals and other technical information, as necessary. The CONTRACTOR, in coordination with the MANUFACTURER, must prepare and submit a schedule for the installation of the products to the CITY for approval. It shall be the CONTRACTOR's responsibility to coordinate the installation schedule with the MANUFACTURER's delivery schedule and the CITY's delivery schedule. The CONTRACTOR shall be responsible for the delivery of the products to the site. The MANUFACTURER's delivery schedule as pertaining to the CONTRACTOR's installation schedule. Finally, the CITY will not be responsible for any delays caused by the CONTRACTOR that impacts the MANUFACTURER's fabrication, and delivery schedule. The MANUFACTURER will provide onsite representation during the product installation to assist, as necessary.

5. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in the applicable local, state, and federal codes and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the ENGINEER for review and approval prior to submitting order.

6. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.

7. All concrete shall be of the same mix design as follows:

A. Compressive Strength = 6000psi

B. Water-cement ratio = 0.40

C. Air entrainment = 1.5% min.

D. Fly Ash, no chlorides.

E. Type I cement.

F. 6% addition of microsilica per weight of binders.

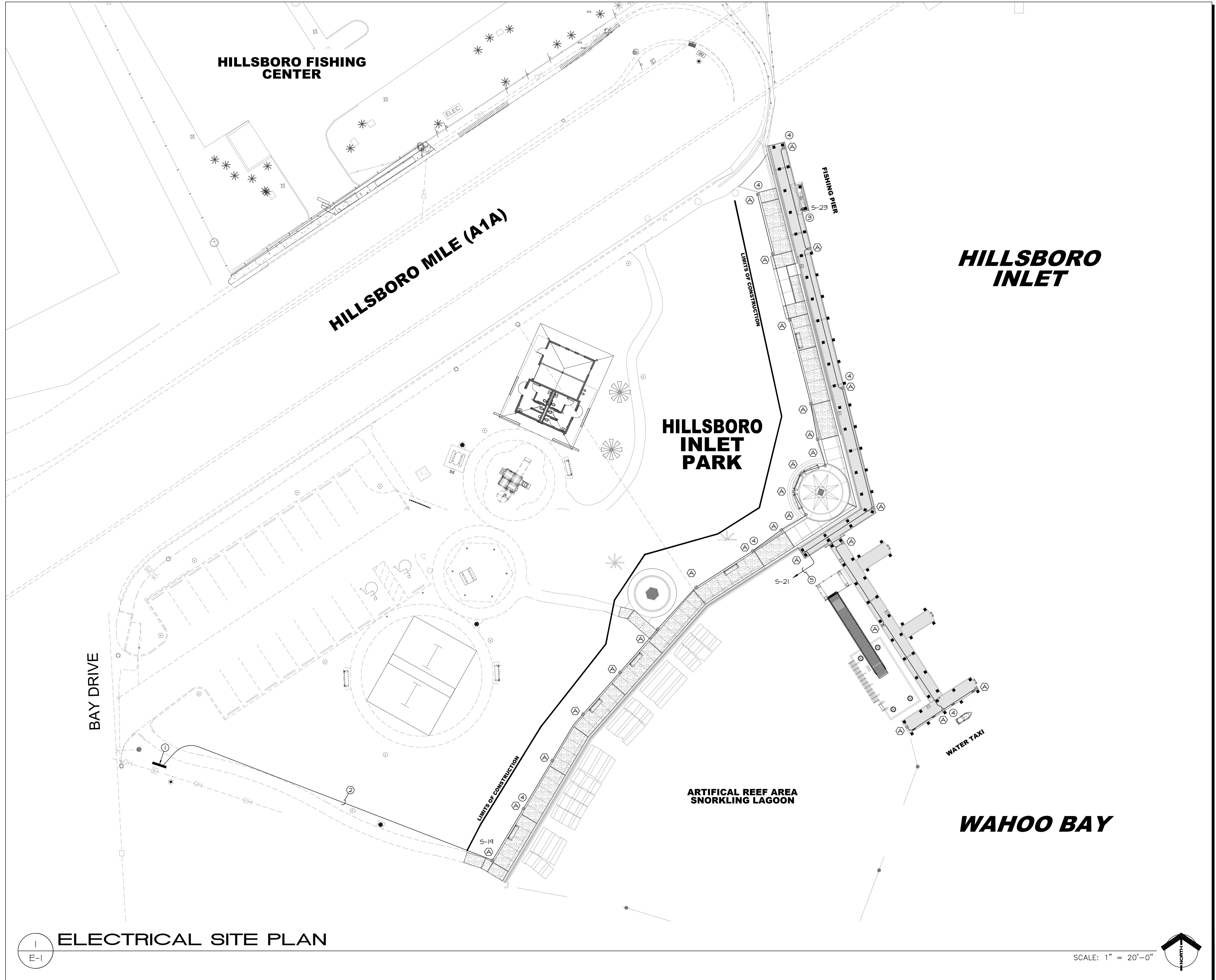
G. Apply Master Builders "Confilm", or equivalent immediately after finishing per manufacturer's specifications.

H. Large and small aggregates washed and free of chlorides or reactive chemicals.

I. Retarders or accelerators not allowed unless justified to the ENGINEER prior to their use.

4. Concrete cover from all exterior faces shall be 4" clear to outermost face of any reinforcement.

5. Continually wet curing on all components. Begin water curing when the concrete has hardened to a point where a "knock" with the knuckles does not indent the surface. Water must be applied such that the entire exposed surface is saturated. Sprinklers or perforated hoses are common methods used for continuous water curing.



PLAN NOTES:

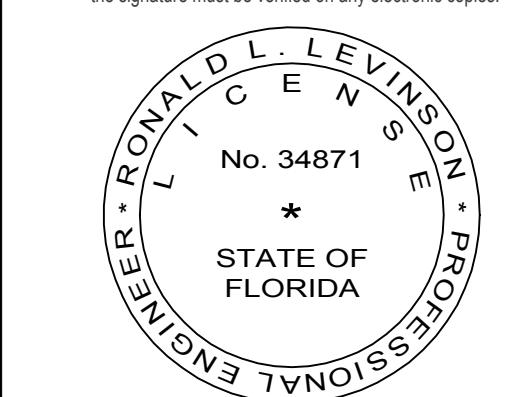
- APPROXIMATE LOCATION OF EXISTING SERVICE RACK AND EXISTING PANEL'S TO REMAIN. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- 3/4" C-5#(10)IG.
- 1# GFI RECEPTACLE AT FISH CLEANING STATION. DEDICATED CIRCUIT. WEATHERPROOF. IN LINE COVER AND RUN 3/4" C-2#(10)IG TO CIRCUIT INDICATED. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- NEW BOLLARD LIGHTING FIXTURE. SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. TIE TO CIRCUIT INDICATED VIA PHOTOCELL. (TYPICAL OF 28)
- 3/4" C-2#(10)IG.
- PER NEC 555.1B PROVIDE MINIMUM #8 BONDING CONDUCTOR FROM THE SYSTEM GROUND CONNECTED TO ALL NON CURRENT-CARRYING METAL PARTS IN CONTACT WITH THE WATER THAT ARE LIKELY TO BECOME ENERGIZED.
- PER NEC 555.1B PROVIDE MINIMUM #8 BONDING CONDUCTOR FROM THE SYSTEM GROUND CONNECTED TO ALL NON CURRENT-CARRYING METAL PARTS IN CONTACT WITH THE WATER THAT ARE LIKELY TO BECOME ENERGIZED.

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R

This drawing has been electronically signed and sealed by Ronald L. Levinson P.E. on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL FIRE CODES (NFFA), THE AMERICANS WITH DISABILITIES ACT (ADA), THE FLORIDA BUILDING CODE (FBC) AND ALL OTHER LOCAL CODES AND AMENDMENTS.
- ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT.
- MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 1/2 INCH UNLESS NOTED OTHERWISE.
- ALL CONDUCTOR METAL SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN (MINIMUM SIZE SHALL BE #12AWG). CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
- ALL PANELBOARDS, SWITCHES AND CIRCUIT BREAKERS SHALL BE MEE, ITE, SQUARE D, GE, OR CUTLER HAMMER.
- ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
- ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST.
- ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ELECTRICAL UPDATES

ELECTRICAL SYMBOL LEGEND:	
AFCI	ARC FAULT CURRENT INTERRUPTER
GFI	GROUND FAULT INTERRUPT
OC	MOUNT DEVICE AT OVER COUNTER HEIGHT
WP	WEATHERPROOF
	EXHAUST FAN
	GROUND TYPE DUPLEX RECEPTACLE 120V. +18" AFF TO BOTTOM OF DEVICE.
\$	S.P.S.T. SWITCH
	LIGHTING FIXTURE
□	WALL MOUNTED LIGHTING FIXTURE
Ⓐ	LIGHT FIXTURE TYPE. SEE SCHEDULE.
Ⓐ	PLAN NOTE
—	120/240V PANELBOARD
—	GROUND CONNECTION
□	DISCONNECT SWITCH
—	CONDUIT

2700 North Ocean Boulevard
Pompano Beach
Florida 33062

Date: 6-16-2025

Drawn By: RLL

Checked By: RLL

Project No.: 2504II

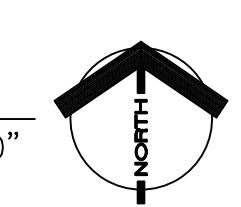
Revised: .

E-1
PRELIMINARY
NOT FOR
CONSTRUCTION

SCOPE OF WORK:

THIS PROJECT CONSISTS OF THE ELECTRICAL WORK ASSOCIATED WITH THE RAISING OF THE EXISTING WALKWAYS TO THE ELEVATION OF THE EXISTING SEAWALL. NEW AMBER TURTLE FRIENDLY LED FIXTURES SHALL BE PROVIDED ALONG THE RAISED WALKWAY AND EXISTING DOCK.

THE EXISTING PARKING LOT AND OTHER SITE LIGHTING FIXTURES ARE TO REMAIN AS IS.



SCALE: 1" = 20'-0"

