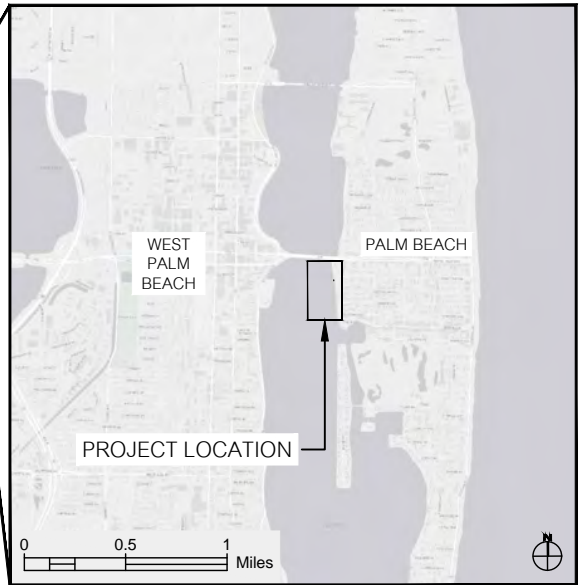


TOWN OF PALM BEACH DOCKS REHABILITATION

N.T.S.



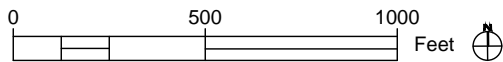
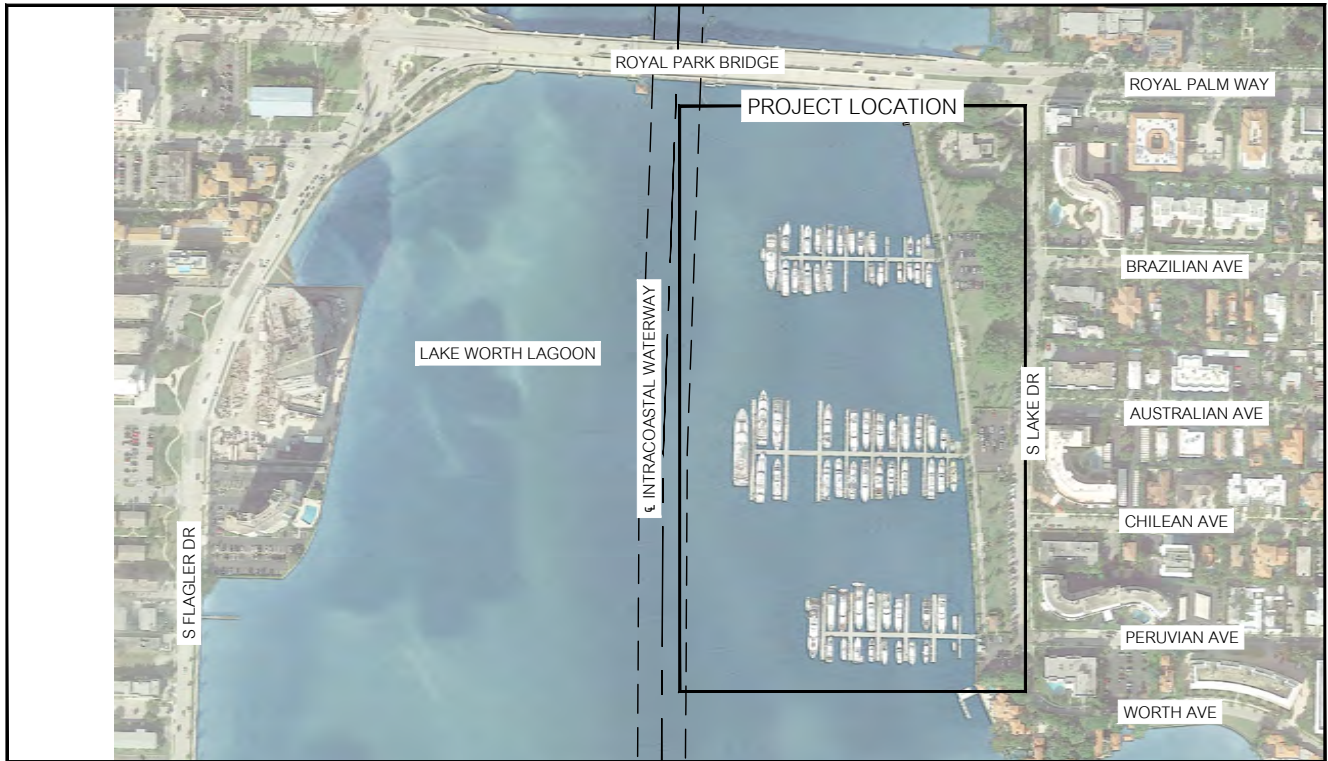
N.T.S.



GRAPHIC SCALE 1:5000

SHEET INDEX	
SHEET NO.	TITLE
1	PROJECT LOCATION MAP
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	COMPARISON OF PROPOSED & EXISTING CONDITIONS
5	PROPOSED CONDITIONS
6	PROPOSED BRAZILIAN DOCK & PALM WAY DOCK DETAIL
7	PROPOSED AUSTRALIAN DOCK DETAIL
8	PROPOSED PERUVIAN DOCK DETAIL
9	PROPOSED BRAZILIAN BUILDING FOOTPRINT

SHEET INDEX	
SHEET NO.	TITLE
10	PROPOSED AUSTRALIAN BUILDING FOOTPRINT
11	DOCKAGE - TYPICAL SECTIONS
12	DOCKAGE - TYPICAL SECTIONS
13	DOCKAGE - GANGWAY DETAIL
14	EXCAVATION - TYPICAL SECTIONS
15	EXCAVATION ISOPACH
16	BULKHEAD - TYPICAL SECTIONS
17	PROPOSED TURBIDITY CONTROL
18	TURBIDITY CONTROL SECTION
19	SOVEREIGN SUBMERGED LAND LEASE



GRAPHIC SCALE 1:500

PREPARED BY:

Baird.
W.F. Baird & Associates
5014 NW 24th Circle
Boca Raton, FL 33431

PROJECT LOCATION MAP

PROJECT ADDRESS:
320 SOUTH LAKE DRIVE
PALM BEACH, FL 33480

APPLICANT:
TOWN OF PALM BEACH
360 SOUTH COUNTY ROAD
PALM BEACH, FL 33480

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DATE: 04/30/2019

DRNL PST

DRNL RPA

DRNL GGT


SHEET 1 OF 19

GORDON THOMSON, PE No. 60743

DATE:

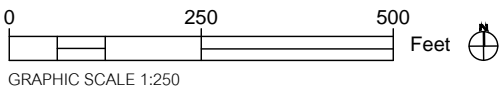
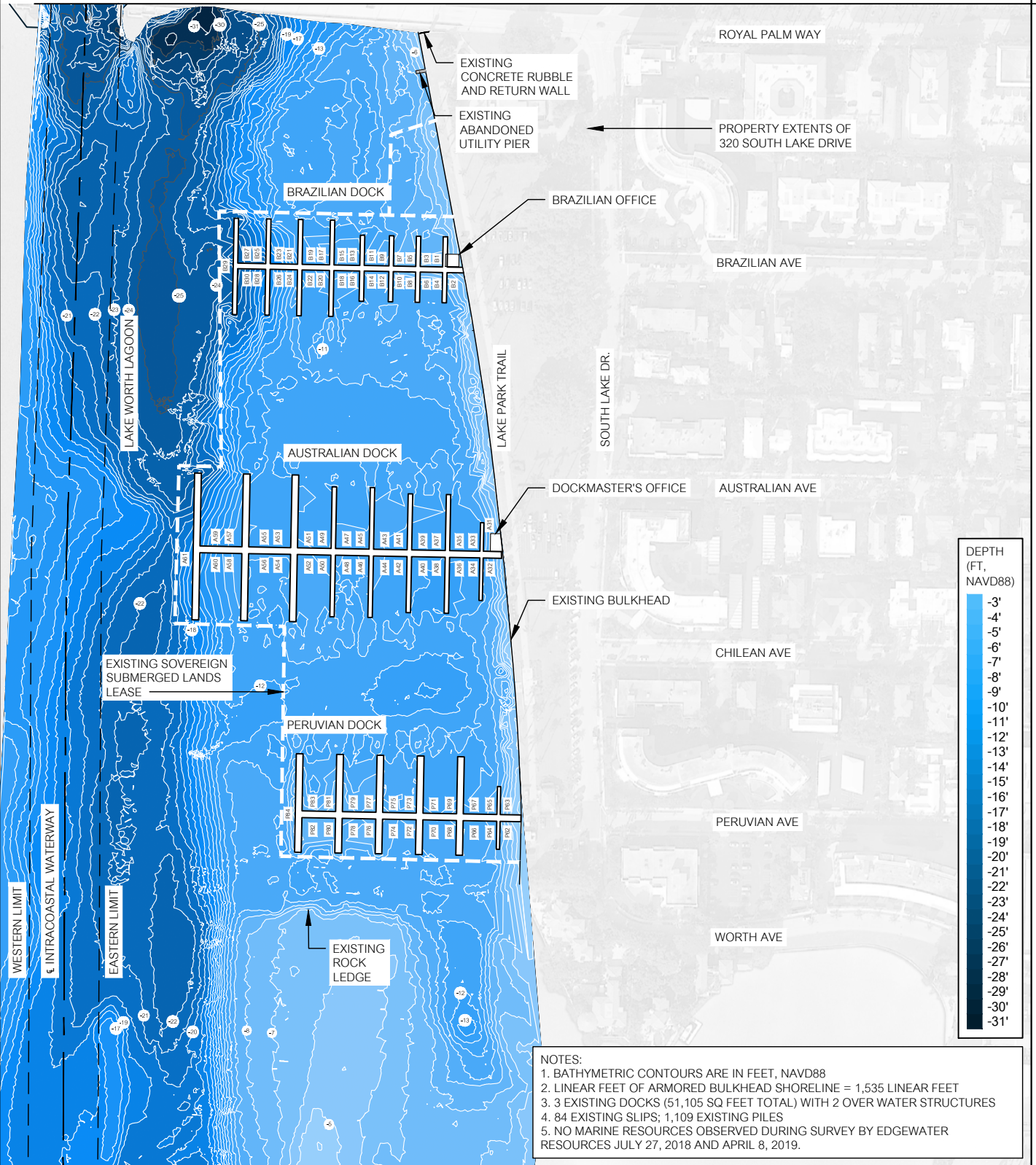
TOWN OF PALM BEACH DOCKS REHABILITATION

1. SURVEY DATA (TOPOGRAPHIC AND BATHYMETRIC) COLLECTED BY SEA DIVERSIFIED (OCT. 27, 2017 AND JAN. 15-16, 2018).
2. HORIZONTAL DATA ARE IN UNITED STATES SURVEY FEET AND RELATIVE TO FLORIDA STATE PLAN COORDINATE SYSTEM (SPCS) BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR FLORIDA, EAST ZONE (0901), NORTH AMERICAN DATUM (NAD) OF 1983, 1990 ADJUSTMENT. VERTICAL DATA ARE IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), GEOID 2009.
3. AERIAL IMAGERY IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY, IMAGE OBTAINED FROM GOOGLE EARTH. IMAGERY DATE: DECEMBER, 2017.
4. PROJECT IS LOCATED AT
320 SOUTH LAKE DRIVE
PALM BEACH, FL 33480
SECTION: 27 TOWNSHIP: 43S RANGE: 43E
LAT: 26°42'10"N LON: 80°02'39"W
5. NO MARINE RESOURCES OBSERVED. MARINE RESOURCE SURVEYS CONDUCTED BY EDGEWATER RESOURCES ON JULY 27, 2018 AND APRIL 8, 2019.
6. CONTRACTOR TO INSTALL AND MAINTAIN FLOATING TURBIDITY BARRIERS DURING ALL PHASES OF MARINE CONSTRUCTION.
7. PROJECT AREA IS 23.8 ACRES AND IS DEFINED BY THE EXTENTS OF THE TURBIDITY CONTROL BARRIER.
8. EXCAVATION: 78,605 CUBIC YARDS OF MATERIAL TO BE EXCAVATED ON 14.7 ACRES BETWEEN (968020E, 863319N) AND (967704E, 861444N) N-S AND (967660E, 862073N) AND (968227E, 861903N) E-W, AND -10.4' TO -17.1' DEPTH (NAVD88) USING MECHANICAL DREDGING TECHNIQUES. EXCAVATED MATERIAL WILL BE PLACED IN THE PREVIOUSLY PERMITTED PALM BEACH COUNTY TARPON COVE RESTORATION AREA (FDEP PERMIT # 50-0354344-001-EI; CORPS PERMIT # SAJ-2017-01527 (SP-LCK)).
9. DEMOLITION OF THE DOCKS: THE CLEAN CONCRETE MATERIAL FROM THE EXISTING DOCKS WILL BE TRANSPORTED AND DEPOSITED AT THE PALM BEACH MID-DEPTH ARTIFICIAL REEF SITE (FDEP PERMIT # 50-0231153-005-EM; CORPS PERMIT # SAJ-2006-07012 (SP-JKA)).
10. CONSTRUCTION TO OCCUR DURING DAYLIGHT HOURS.
11. 84 SLIPS EXIST CURRENTLY, WHOSE DOCKAGE COVERS APPROXIMATELY 51,105 SQUARE FEET OVER WATER. 84 SLIPS ARE PROPOSED, WHOSE DOCKAGE WILL COVER APPROXIMATELY 85,945 SQUARE FEET OVER WATER.
12. THERE ARE 4 FIXED DECK SECTIONS PROPOSED FOR GANGWAY ABUTMENT CONNECTIONS, WHOSE AREA COVERS APPROXIMATELY 527 SQUARE FEET OVER WATER.
13. THERE ARE 2 OVER WATER BUILDING PAD STRUCTURES EXISTING (640 AND 528 SQ FEET; 1,168 SQ FEET TOTAL). THERE ARE 2 OVER WATER STRUCTURES PROPOSED (640 AND 528 SQ FEET; 1,168 SQ FEET TOTAL).
14. EXISTING PILES TO BE REMOVED INCLUDE (619) CONCRETE PILES AND (490) WOOD PILES.
15. PROPOSED (IN-WATER) PILING PLAN INCLUDES (218) 24"Ø STEEL PILES, (34) 14" SQ. CONCRETE PILES and (4) 36"Ø STEEL PILES. CONCRETE PILES TO BE INSTALLED USING AN IMPACT HAMMER. STEEL PILES TO BE INSTALLED USING A VIBRATORY HAMMER.
16. EXISTING SOVEREIGN SUBMERGED LANDS LEASE AREA = 559,306 FT² (12.84 ACRES). PROPOSED SOVEREIGN SUBMERGED LANDS LEASE AREA = 895,080 FT² (20.55 ACRES), 67,695 CU YDS EXCAVATION. PROPOSED PUBLIC EASEMENT AREA = 98,828 FT² (2.27 ACRES), 15,745 CU YDS EXCAVATION.

PREPARED BY:  Baird. W.F. Baird & Associates 5014 NW 24th Circle Boca Raton, FL 33431	GENERAL NOTES	NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY
DATE: 04/30/2019	DSRN: PST DNSR: RPA APRN: GGT	SHEET: 2 OF 19 GORDON THOMSON, PE No. 60743 DATE:

P:\1717201 PALM BEACH DOCKS REHABILITATION\2019\04\30\043019\043019.dwg

TOWN OF PALM BEACH DOCKS REHABILITATION



PREPARED BY:

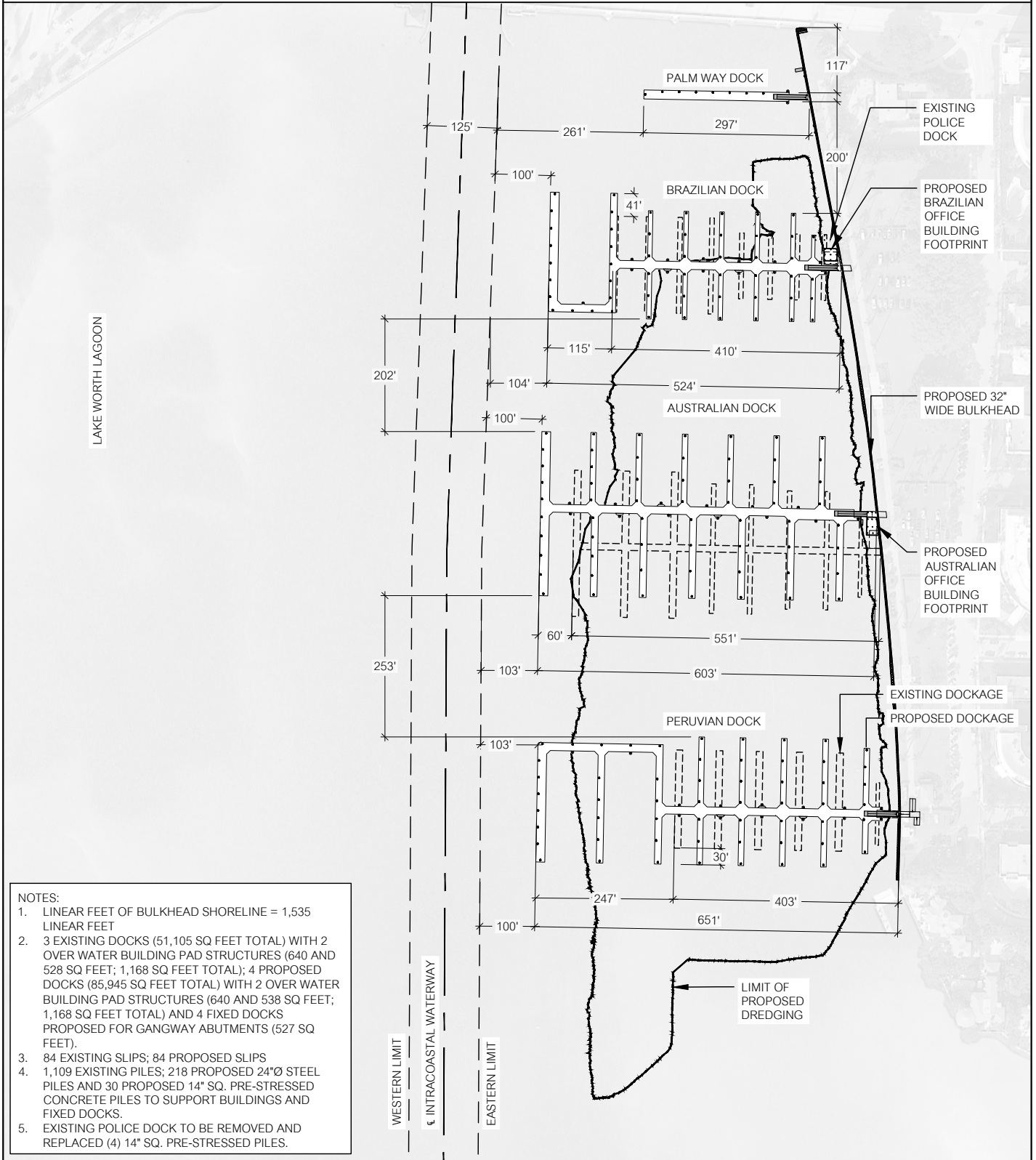
Baird.
 W.F. Baird & Associates
 5014 NW 24th Circle
 Boca Raton, FL 33431

EXISTING CONDITIONS					
DATE:	04/30/2019	DRAWN:	PST	CHECKED:	RPA
DATE:		DRAWN:	GGT	CHECKED:	
SHEET 3 OF 19					

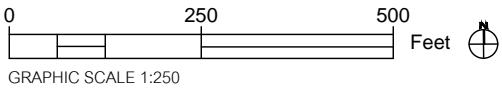
NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY

GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

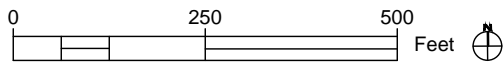
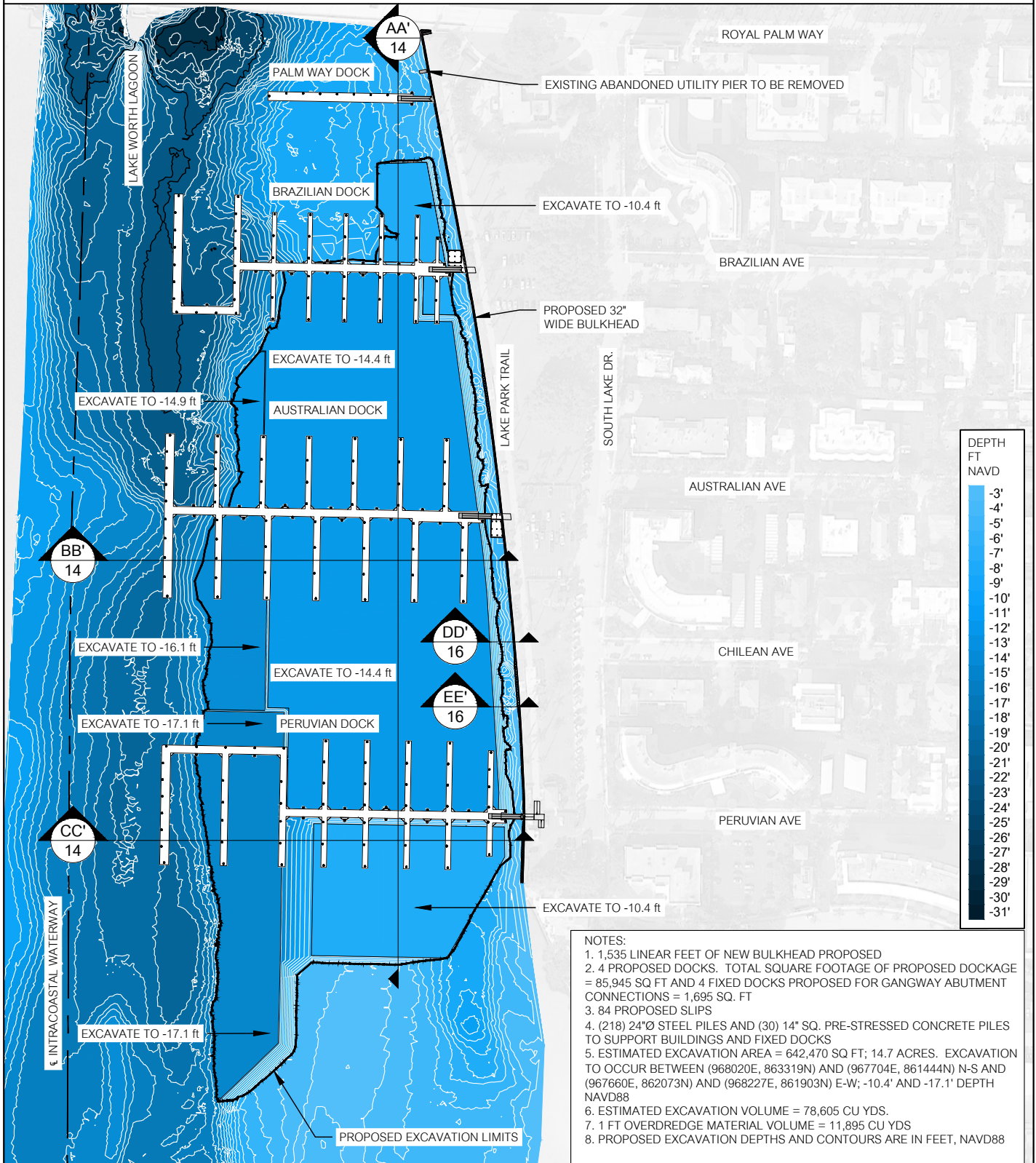


- NOTES:**
1. LINEAR FEET OF BULKHEAD SHORELINE = 1,535 LINEAR FEET
 2. 3 EXISTING DOCKS (51,105 SQ FEET TOTAL) WITH 2 OVER WATER BUILDING PAD STRUCTURES (640 AND 528 SQ FEET; 1,168 SQ FEET TOTAL); 4 PROPOSED DOCKS (85,945 SQ FEET TOTAL) WITH 2 OVER WATER BUILDING PAD STRUCTURES (640 AND 538 SQ FEET; 1,168 SQ FEET TOTAL) AND 4 FIXED DOCKS PROPOSED FOR GANGWAY ABUTMENTS (527 SQ FEET).
 3. 84 EXISTING SLIPS; 84 PROPOSED SLIPS
 4. 1,109 EXISTING PILES; 218 PROPOSED 24"Ø STEEL PILES AND 30 PROPOSED 14" SQ. PRE-STRESSED CONCRETE PILES TO SUPPORT BUILDINGS AND FIXED DOCKS.
 5. EXISTING POLICE DOCK TO BE REMOVED AND REPLACED (4) 14" SQ. PRE-STRESSED PILES.



PREPARED BY: Baird. W.F. Baird & Associates 5014 NW 24th Circle Boca Raton, FL 33431	COMPARISON OF PROPOSED & EXISTING CONDITIONS				NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY	
	DATE: 04/30/2019	DSNL: PST	DSNR: RPA	DSNE: GGT	SHEET: 4 OF 19	GORDON THOMSON, PE No. 60743

TOWN OF PALM BEACH DOCKS REHABILITATION



GRAPHIC SCALE 1:250

PREPARED BY:

Baird.

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5014 NW 24th Circle
Boca Raton, FL 33431

PROPOSED CONDITIONS

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DATE: 04/30/2019

DRN: PST

DRN: RPA

DRN: GGT

SHEET: 5 OF 19

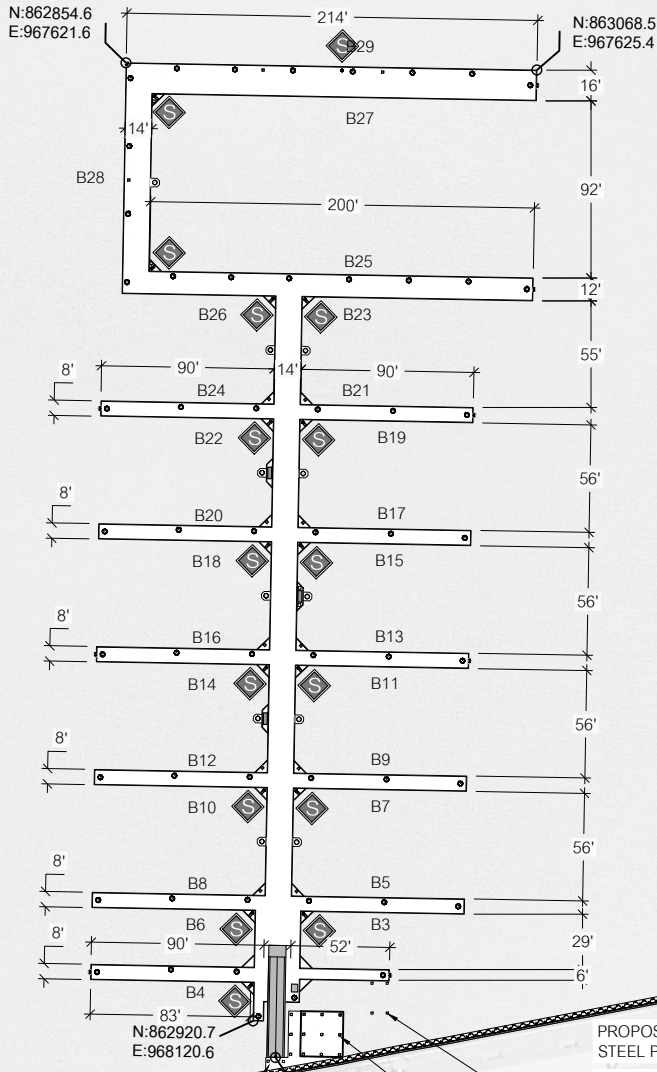
GORDON THOMSON, PE No. 60743

DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

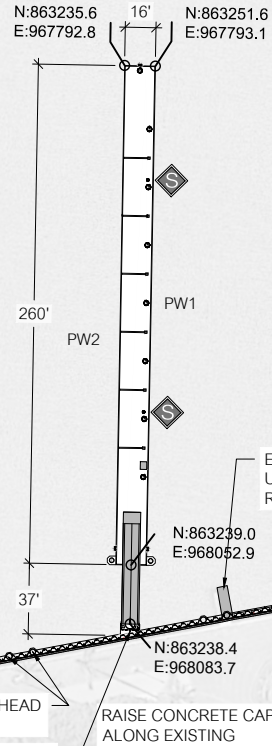
EASTERN LIMIT ICW

BRAZILIAN DOCK



LAKE WORTH LAGOON

PALM WAY DOCK



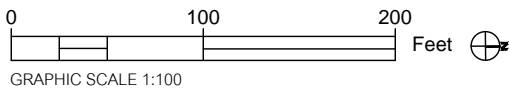
EXISTING ABANDONED UTILITY PIER TO BE REMOVED

PROPOSED 32" WIDE BULKHEAD
PROPOSED FIXED DOCK

PROPOSED BULKHEAD STEEL PILE
PROPOSED FIXED DOCK
EXISTING POLICE BOAT LIFT TO BE REMOVED AND REPLACED
BRAZILIAN BUILDING PLATFORM FOOTPRINT (528 FT²) SEE SHEET 9

RAISE CONCRETE CAP 2' ALONG EXISTING RETURN WALL
EXISTING CONCRETE RUBBLE (TO REMAIN)

LEGEND	
•	ANCHOR PILE
B4	BERTH NUMBER
Ⓢ	SANITARY PUMPOUT
Ⓜ	POWER PEDESTAL



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PROPOSED BRAZILIAN DOCK & PALM WAY DOCK DETAIL

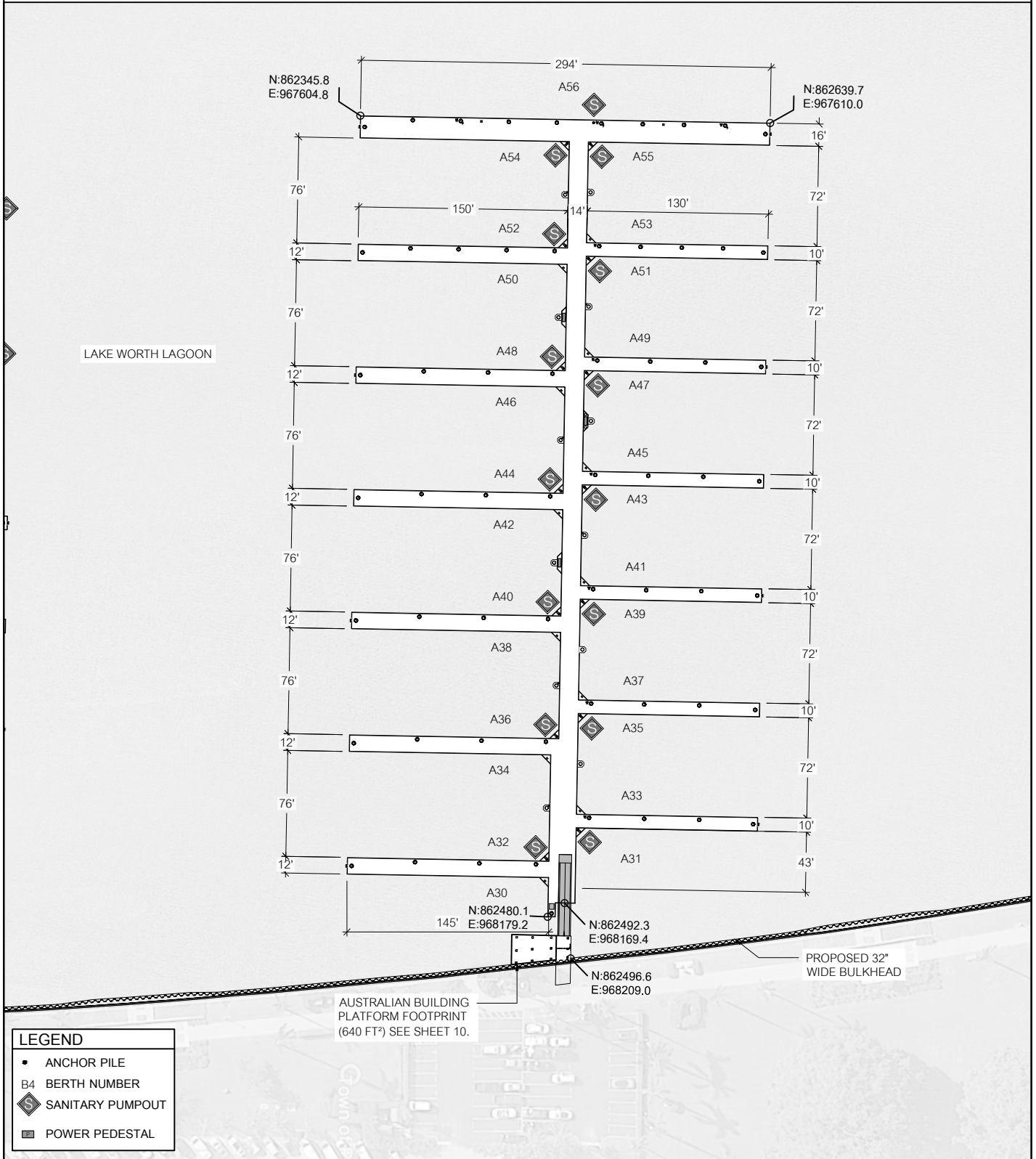
- NOTES:
1. BRAZILIAN FLOATING DOCK AREA = 21,824 SQ FT; (65) 24-IN STEEL PILES; 27 PROPOSED SLIPS
 2. PALM WAY FLOATING DOCK AREA = 4,160 SQ FT; (10) 24-IN STEEL PILES; 2 PROPOSED MARGINAL SIDE-TIE SLIPS
 3. BRAZILIAN OFFICE BUILDING = 528 SQ FT; (9) 14-IN CONCRETE PILES
 4. BRAZILIAN FIXED DOCK = 290 SQ FT; (5) 14-IN CONCRETE PILES
 5. PALM WAY FIXED DOCK = 44 SQ. FT; (2) 14-IN CONCRETE PILES
 6. BULKHEAD = (4) 36" STEEL PILES

DATE: 04/30/2019	DRN: PST	DRN: RPA	APR: GGT	SHEET: 6 OF 19
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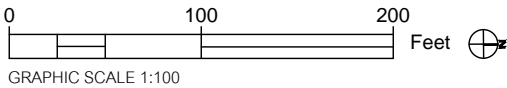
NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY

GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION



LEGEND	
•	ANCHOR PILE
B4	BERTH NUMBER
Ⓢ	SANITARY PUMPOUT
Ⓜ	POWER PEDESTAL



PREPARED BY:

Baird.
 W.F. Baird & Associates
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 Boca Raton, FL 33431

PROPOSED AUSTRALIAN DOCK DETAIL					
NOTES:					
1. AUSTRALIAN FLOATING DOCK AREA = 32,187 SQ. FT. (73) 24-IN STEEL PILES; 27 PROPOSED SLIPS					
2. AUSTRALIAN OFFICE BUILDING = 640 SQ. FT. (9) 14-IN CONCRETE PILES					
3. AUSTRALIAN FIXED DOCK = 174 SQ. FT.; (3) 14-IN CONCRETE PILES					
DATE:	DRN:	DES:	APP:	SHEET:	
04/30/2019	PST	RPA	GGT	7 OF 19	

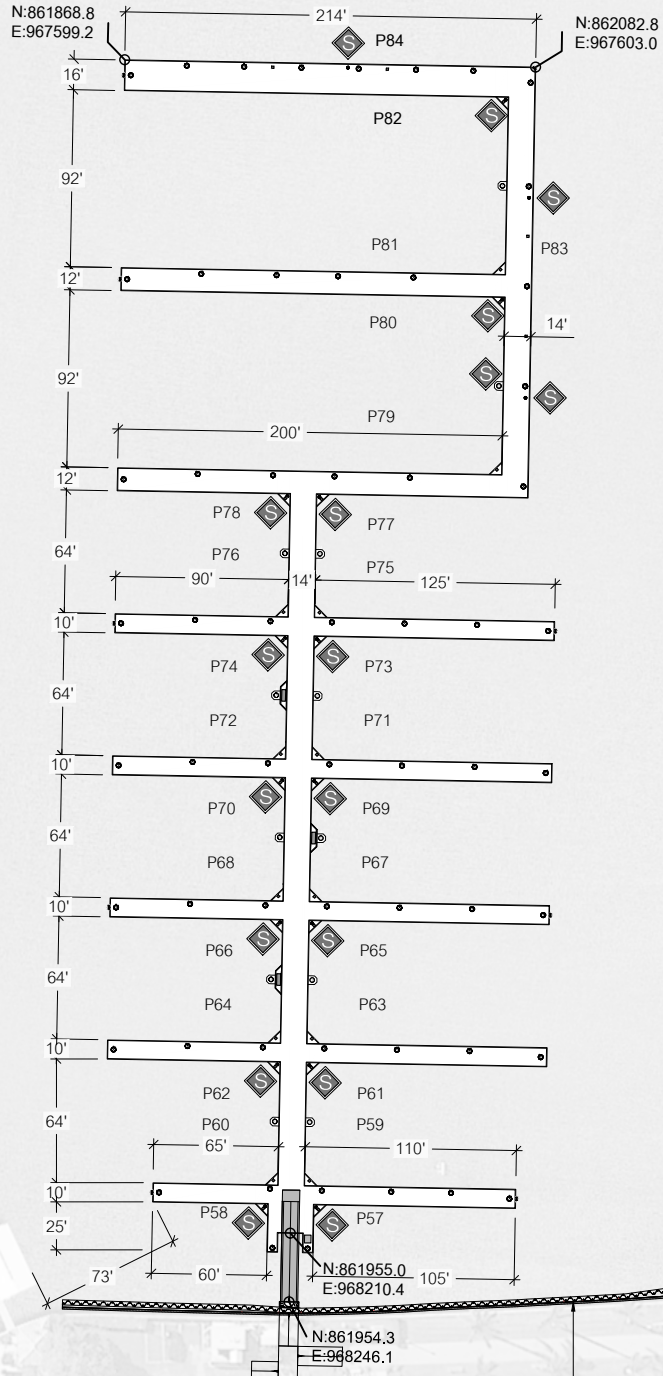
NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY

GORDON THOMSON, PE No. 60743 DATE:

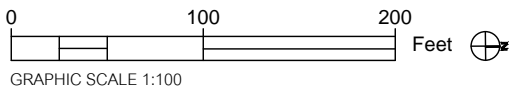
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TOWN OF PALM BEACH DOCKS REHABILITATION

LAKE WORTH LAGOON



LEGEND	
•	ANCHOR PILE
B4	BERTH NUMBER
Ⓢ	SANITARY PUMPOUT
Ⓜ	POWER PEDESTAL



PREPARED BY:

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5014 NW 24th Circle
Boca Raton, FL 33431

PROPOSED PERUVIAN DOCK DETAIL

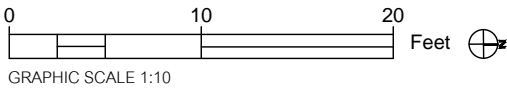
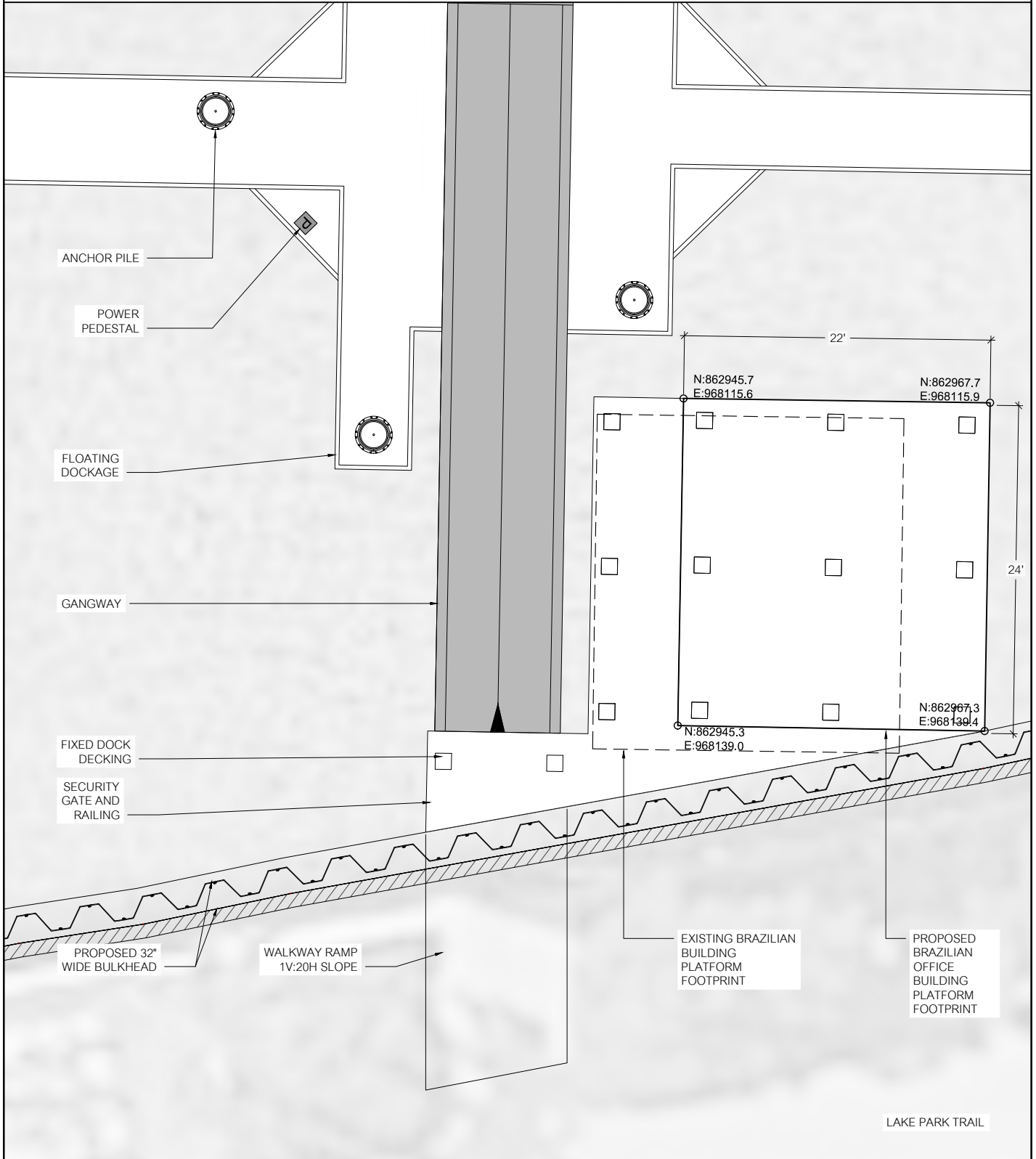
- NOTES:
1. PERUVIAN FLOATING DOCK AREA = 27,774 SQ. FT. (70) 24-IN STEEL PILES; 28 PROPOSED SLIPS
 2. PERUVIAN FIXED DOCK = 32 SQ. FT.; (2) 14-IN CONCRETE PILES

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DATE: 04/30/2019	DRNL: PST	DNS: RPA	ADRE: GGT	SHEET: 8 OF 19
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GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION



PREPARED BY:

Baird.
W.F. Baird & Associates
5014 NW 24th Circle
Boca Raton, FL 33431

PROPOSED BRAZILIAN BUILDING FOOTPRINT

NOTES:

1. EXISTING BUILDING PLATFORM = 528 SQ FT
2. PROPOSED BUILDING PLATFORM = 528 SQ FT
3. PROPOSED FIXED DOCK DECKING = 290 SQ FT
4. TOTAL PROPOSED OVER WATER SQUARE FOOTAGE = 818 SQ FT

DATE: 04/30/2019

DRNL PST

DRSN RPA

ADRE GGT

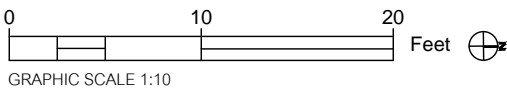
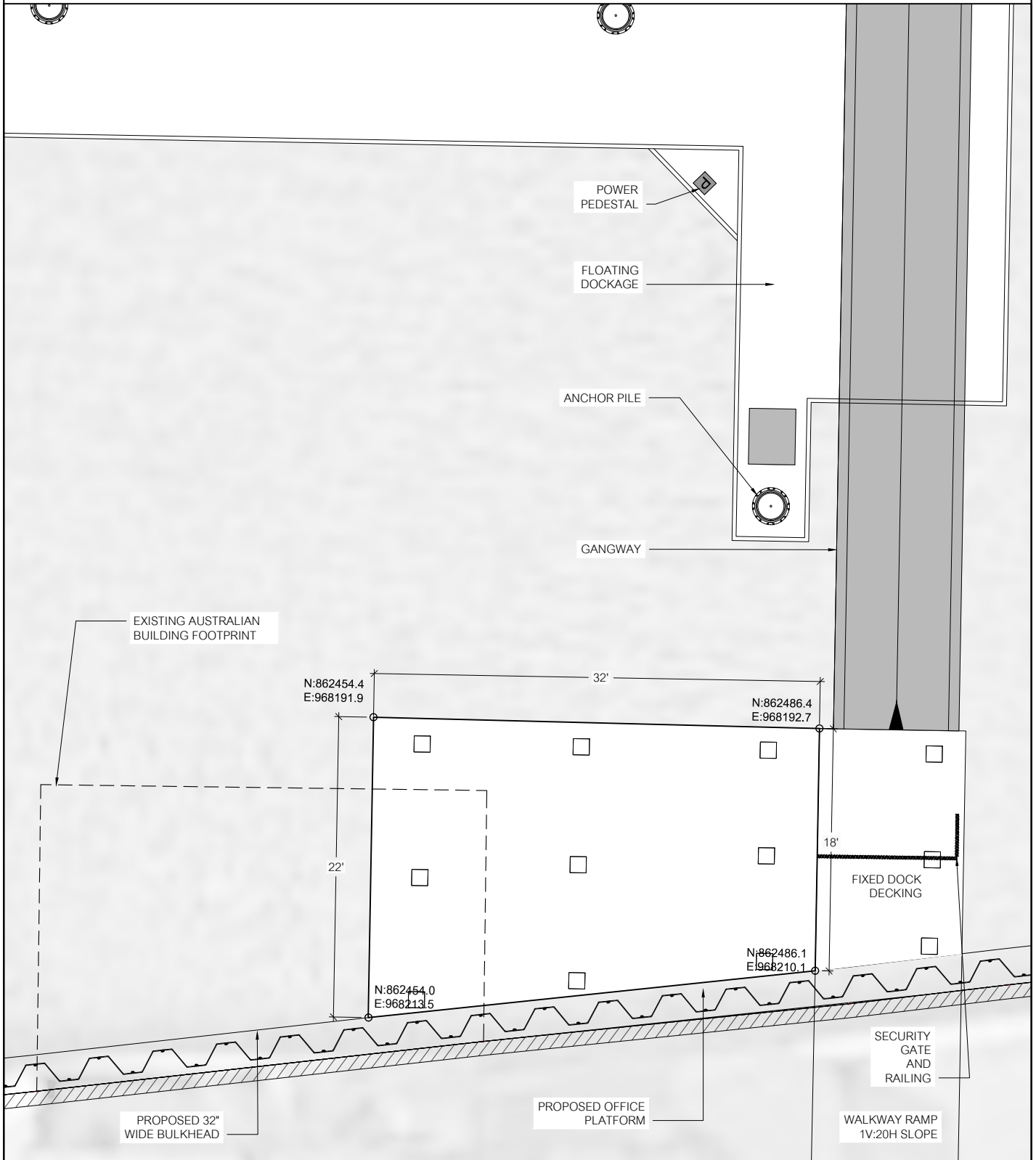
SHEET 9 OF 19

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GORDON THOMSON, PE No. 60743

DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION



PREPARED BY:

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5014 NW 24th Circle
Boca Raton, FL 33431

PROPOSED AUSTRALIAN BUILDING FOOTPRINT

- NOTES:
1. EXISTING BUILDING PLATFORM = 640 SQ FT
 2. PROPOSED BUILDING PLATFORM = 640 SQ FT
 3. PROPOSED FIXED DOCK DECKING = 161 SQ FT
 4. TOTAL PROPOSED OVER WATER SQUARE FOOTAGE = 801 SQ FT

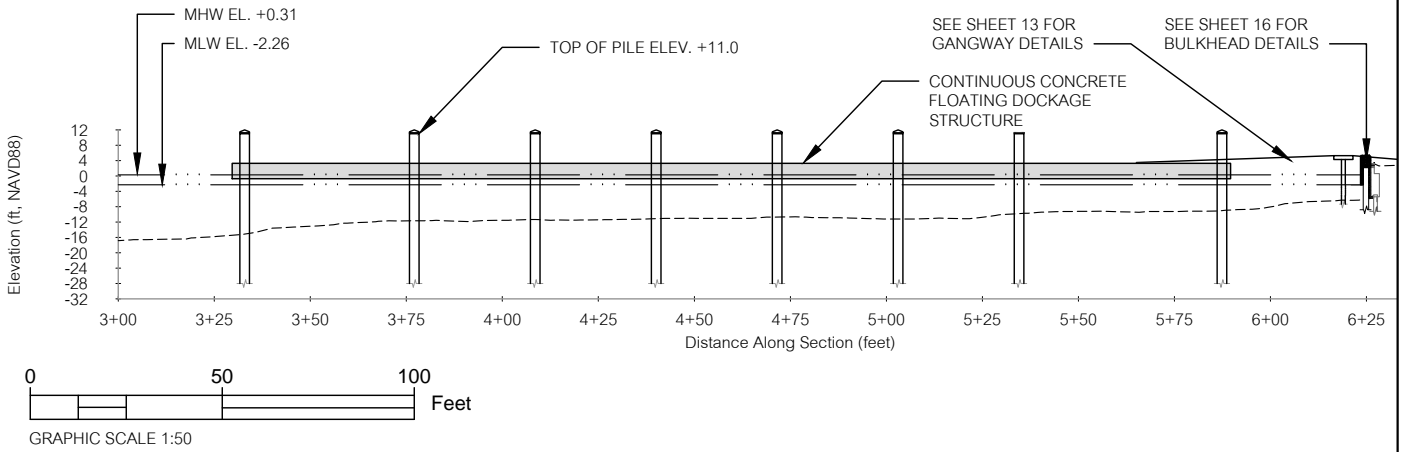
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DATE: 04/30/2019	DRN: PST	DRS: RPA	APR: GGT	SHEET: 10 OF 19
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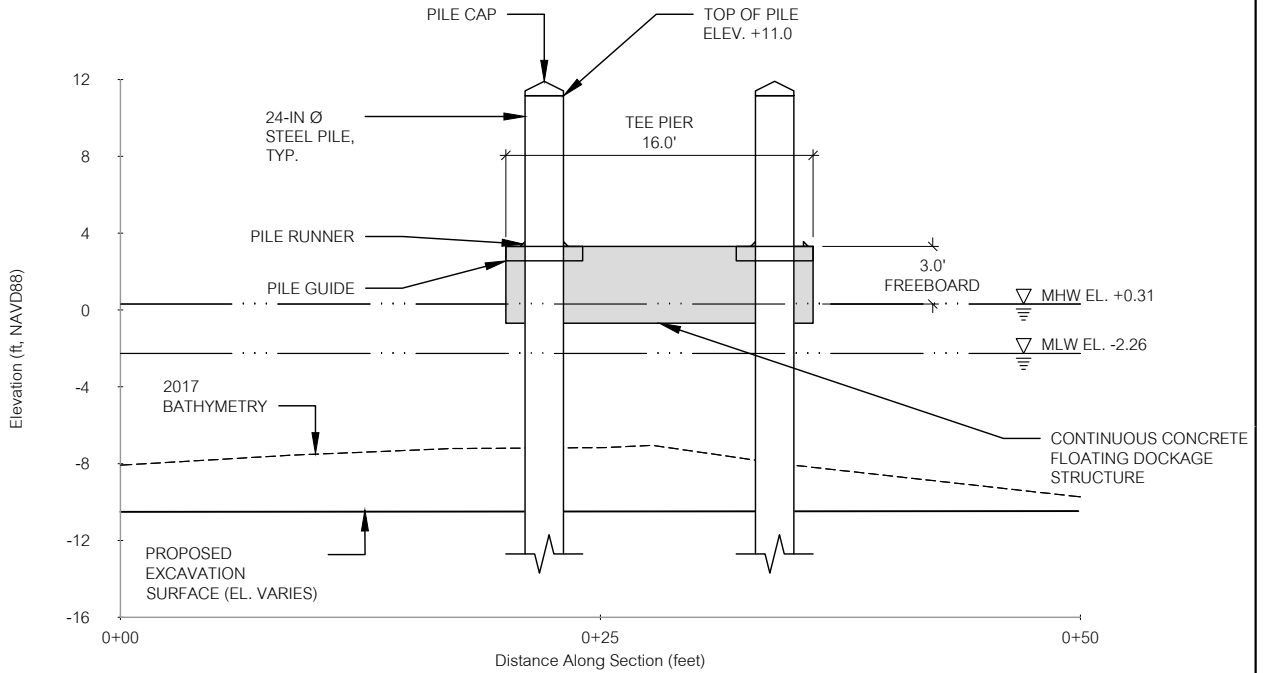
GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

TYPICAL DOCK CROSS-SECTION



TYPICAL "T" PIER SECTION



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5014 NW 24th Circle
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DOCKAGE - TYPICAL SECTIONS

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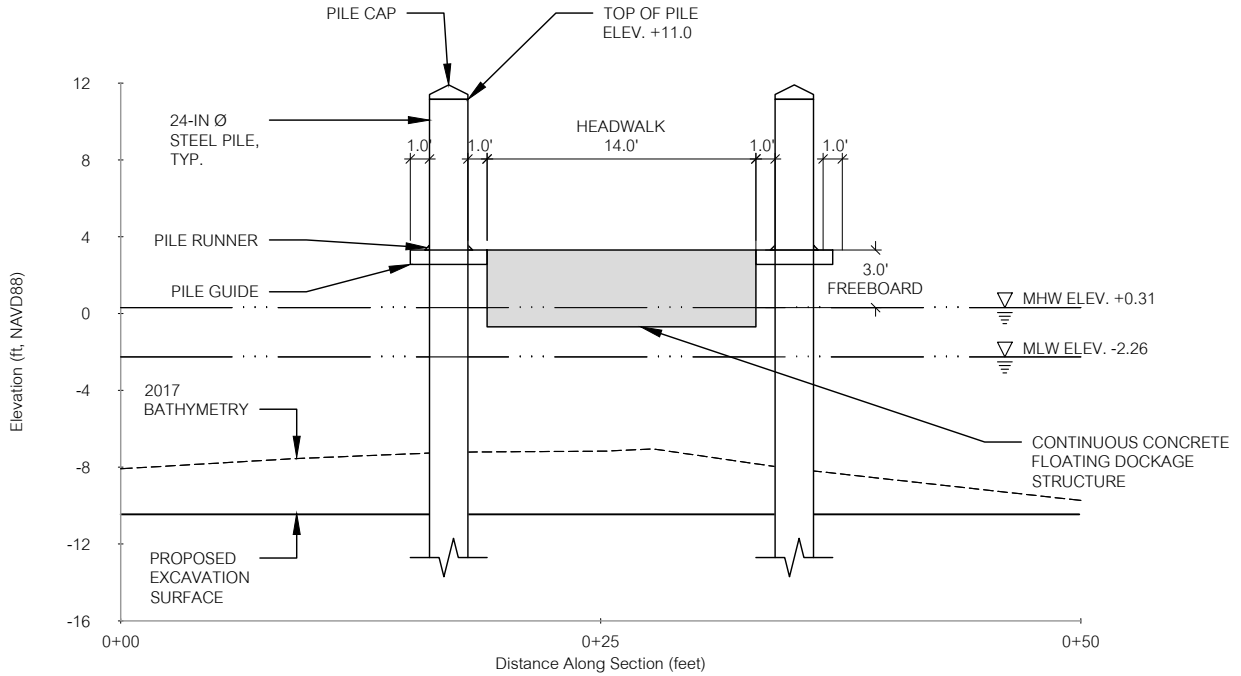
- NOTES:
1. BOTTOM ELEVATION OF PILES TO BE DETERMINED DURING FINAL DESIGN.
 2. PILES TO BE DRIVEN USING VIBRATORY HAMMER.

DATE: 04/30/2019	DRNL: PST	DRSC: RPA	APR: GGT	SHEET: 11 OF 19
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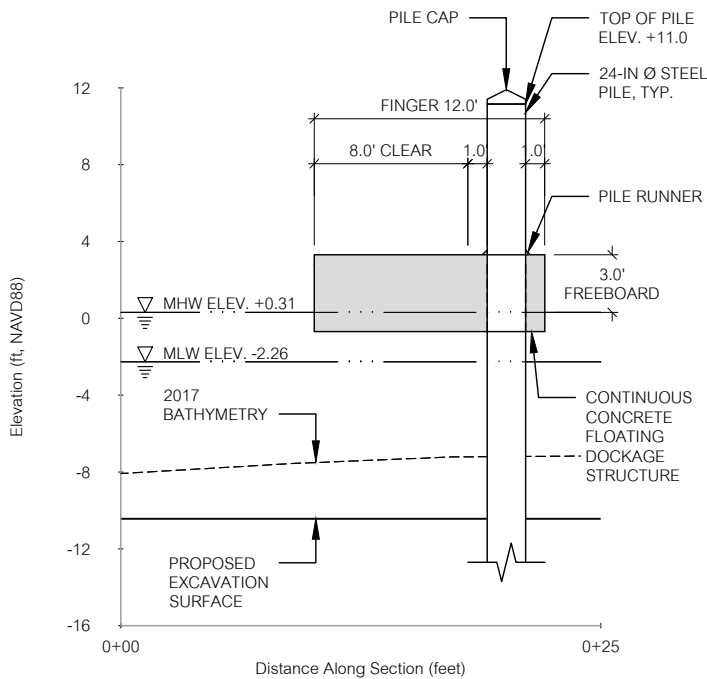
GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

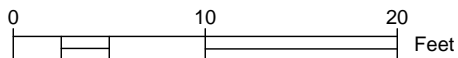
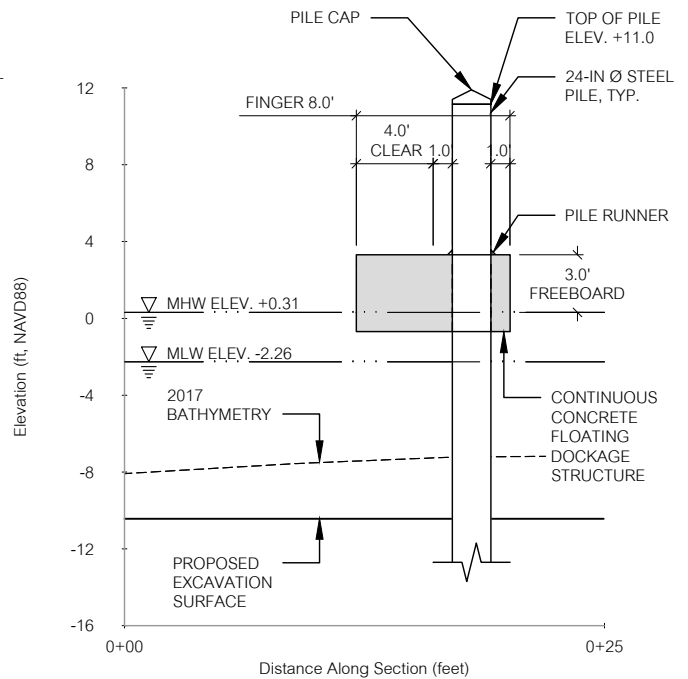
TYPICAL 14' HEADWALK SECTION



TYPICAL 12' FINGER PIER SECTION



TYPICAL 8' FINGER PIER SECTION



GRAPHIC SCALE 1:10

PREPARED BY:

Baird.
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5014 NW 24th Circle
Boca Raton, FL 33431

DOCKAGE - TYPICAL SECTIONS

NOTES:

1. BOTTOM ELEVATION OF PILES TO BE DETERMINED DURING FINAL DESIGN.
2. PILES TO BE DRIVEN USING VIBRATORY HAMMER.

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DATE: 04/30/2019

DRN: PST

DRN: RPA

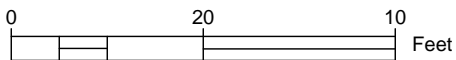
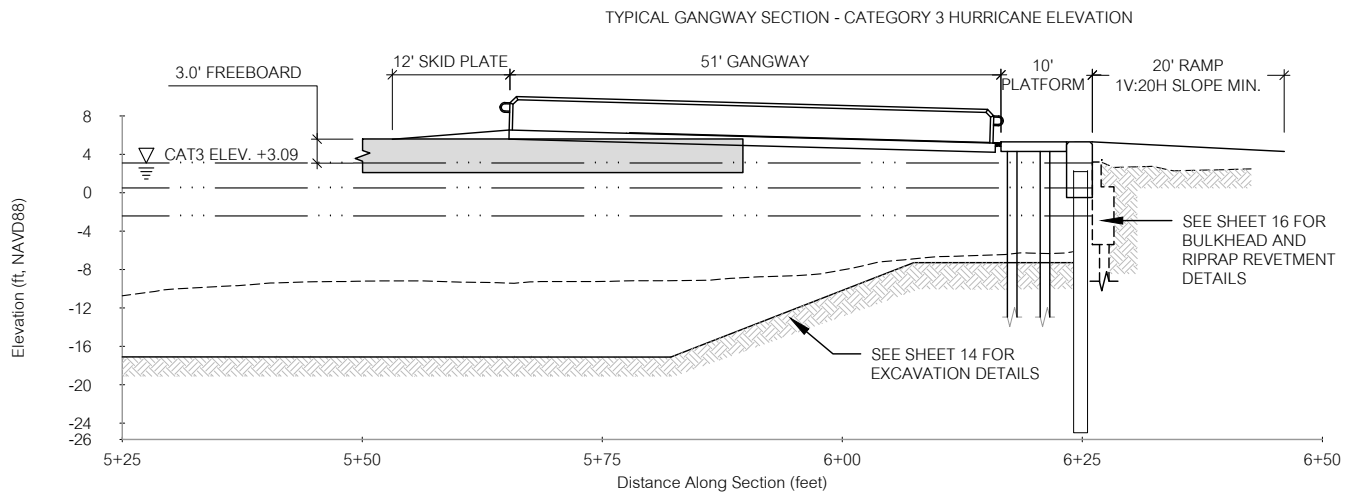
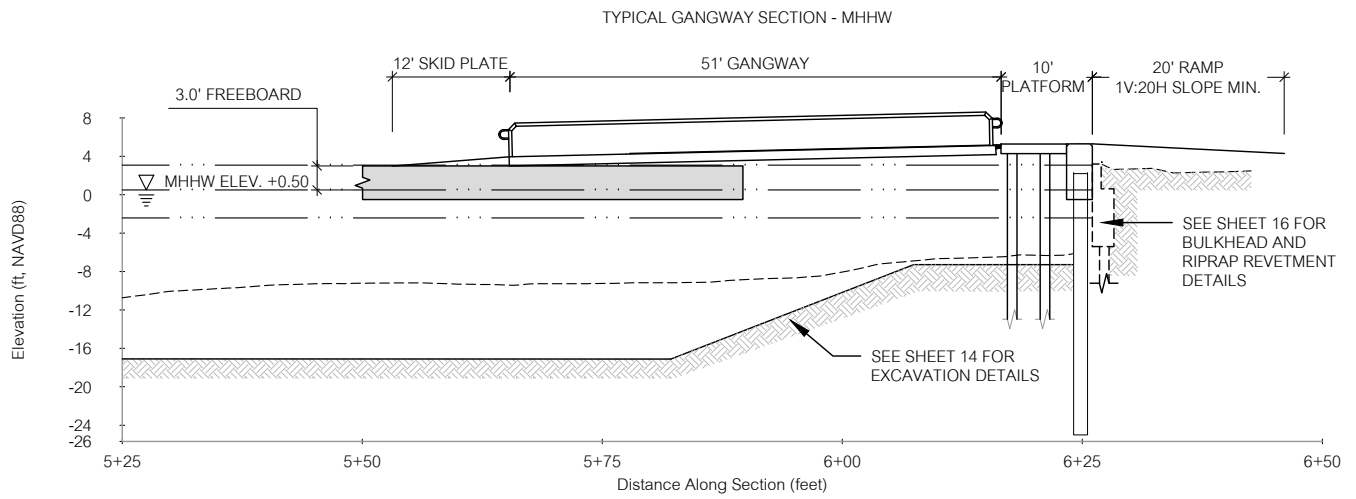
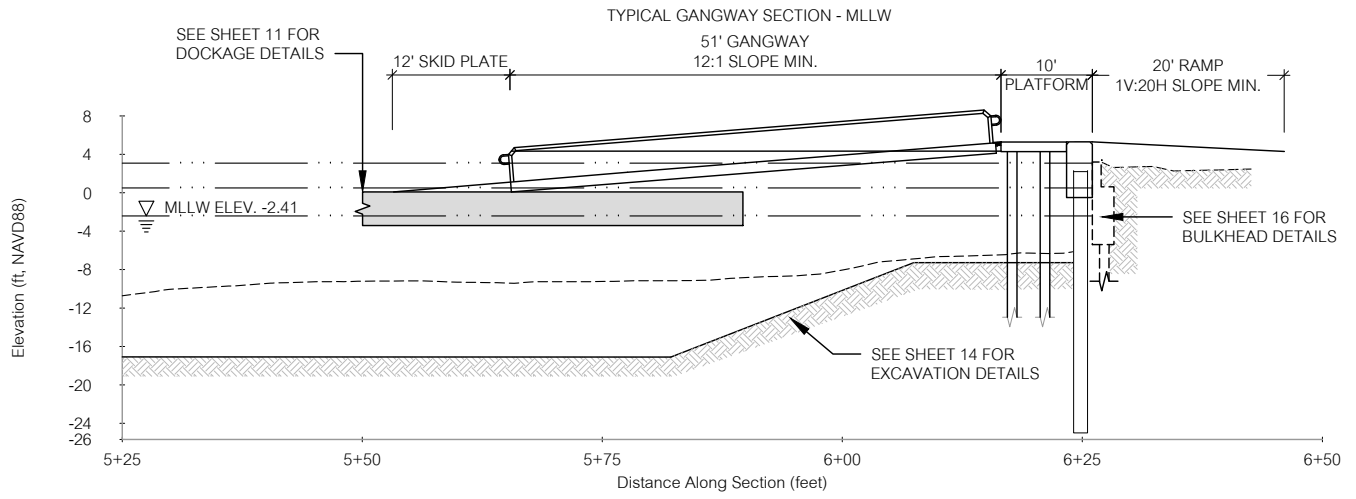
DRN: GGT

SHEET: 12 OF 19

GORDON THOMSON, PE No. 60743

DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION



GRAPHIC SCALE 1:20

PREPARED BY:

Baird.

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Boca Raton, FL 33431

DOCKAGE - GANGWAY DETAIL

NOTES:

- GANGWAY MATERIAL WILL BE ALUMINUM WITH WOOD ACCENTS OR SUITABLE ALTERNATIVE.

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DATE: 04/30/2019

DRNL PST

DRS RPA

APR GGT

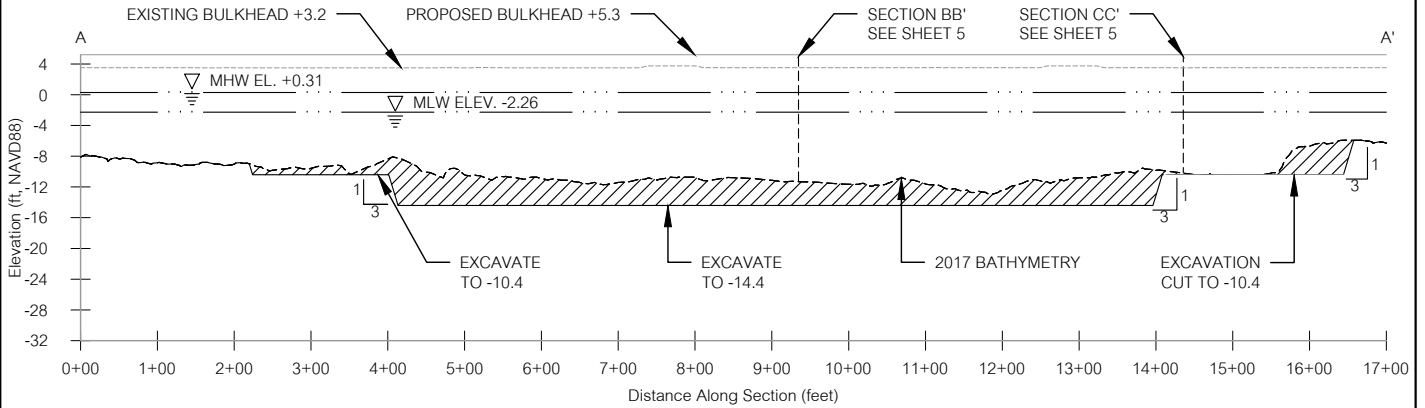
SHEET 13 OF 19

GORDON THOMSON, PE No. 60743

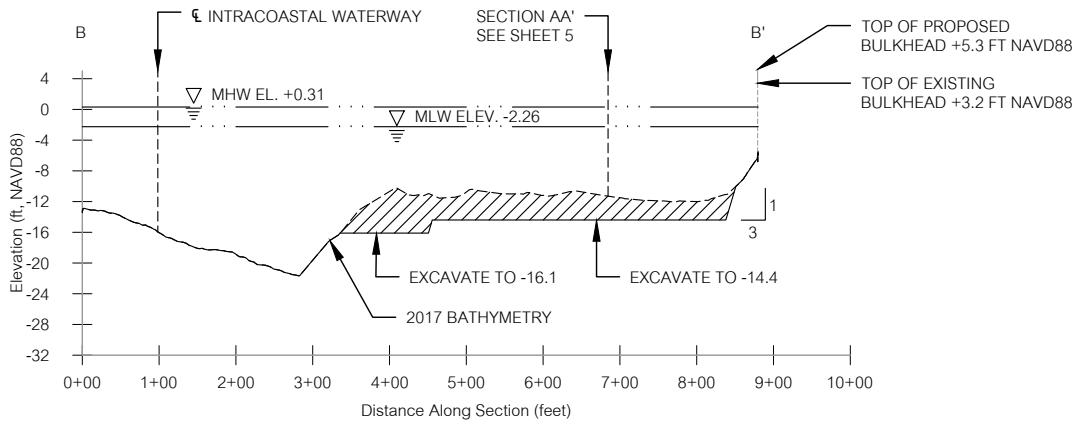
DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

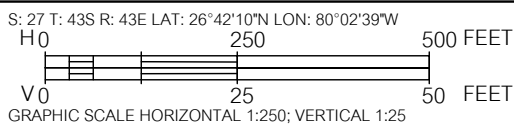
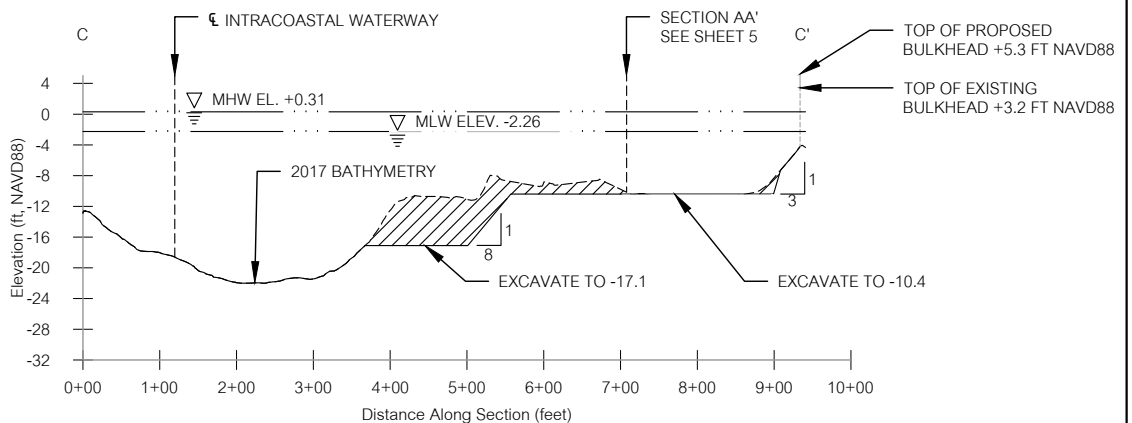
CROSS-SECTION A-A' (PAGE 5)



CROSS-SECTION B-B' (PAGE 5)



CROSS-SECTION C-C' (PAGE 5)



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 W.F. Baird & Associates
 5014 NW 24th Circle
 Boca Raton, FL 33431

EXCAVATION - TYPICAL SECTIONS

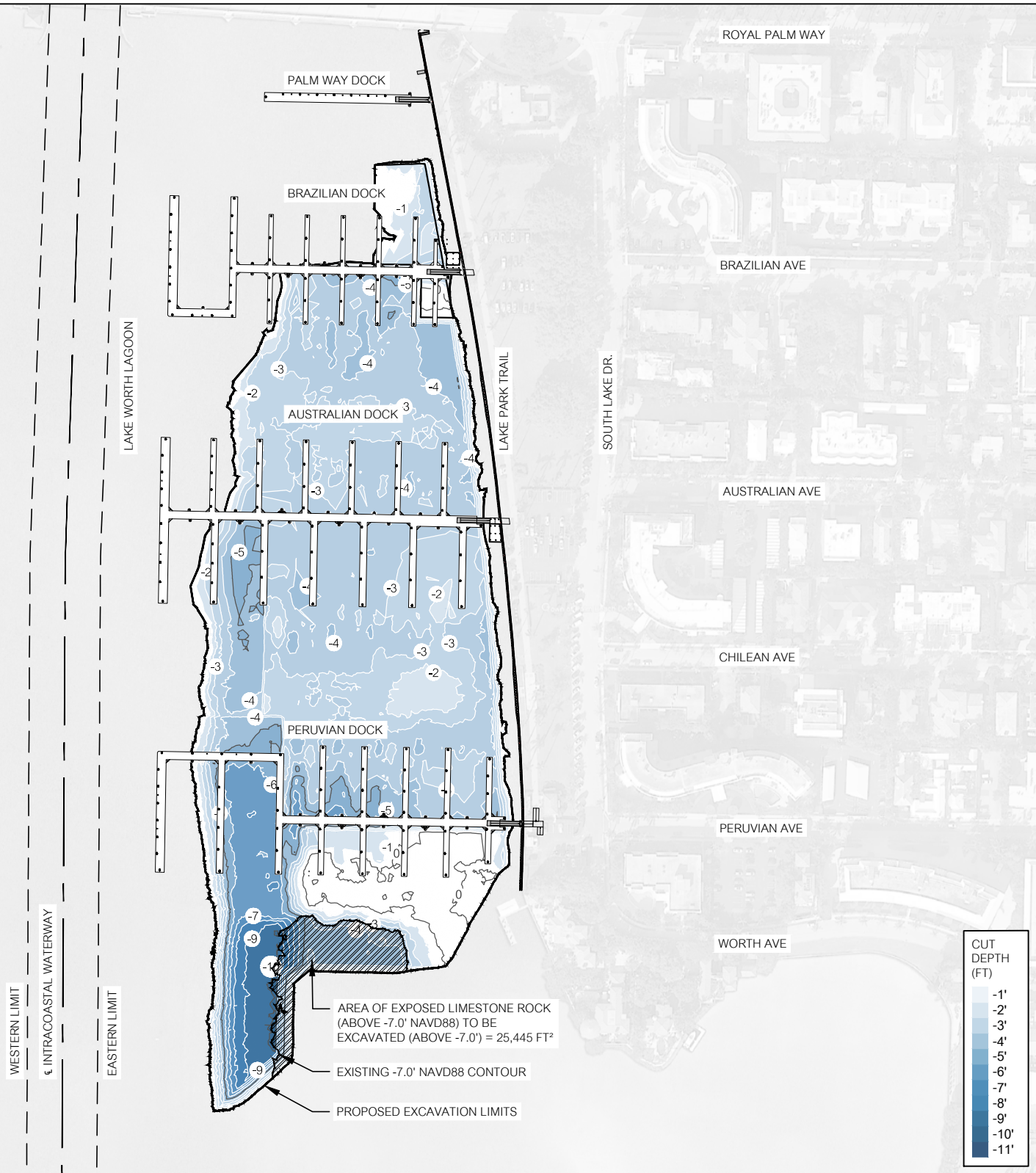
- NOTES:
- ESTIMATED EXCAVATION AREA = 642,470 SQ FT; 14.7 ACRES
 - ESTIMATED EXCAVATION VOLUME = 78,605 CU YDS
 - EXCAVATION TO OCCUR BETWEEN -10.4' AND -17.1' DEPTH NAVD88

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DATE: 04/30/2019	DRN: PST	DRS: RPA	APR: GGT	SHEET: 14 OF 19
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GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION



0 250 500 Feet

GRAPHIC SCALE 1:250

PREPARED BY: EXCAVATION ISOPACH NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY

Baird.
W.F. Baird & Associates
5014 NW 24th Circle
Boca Raton, FL 33431

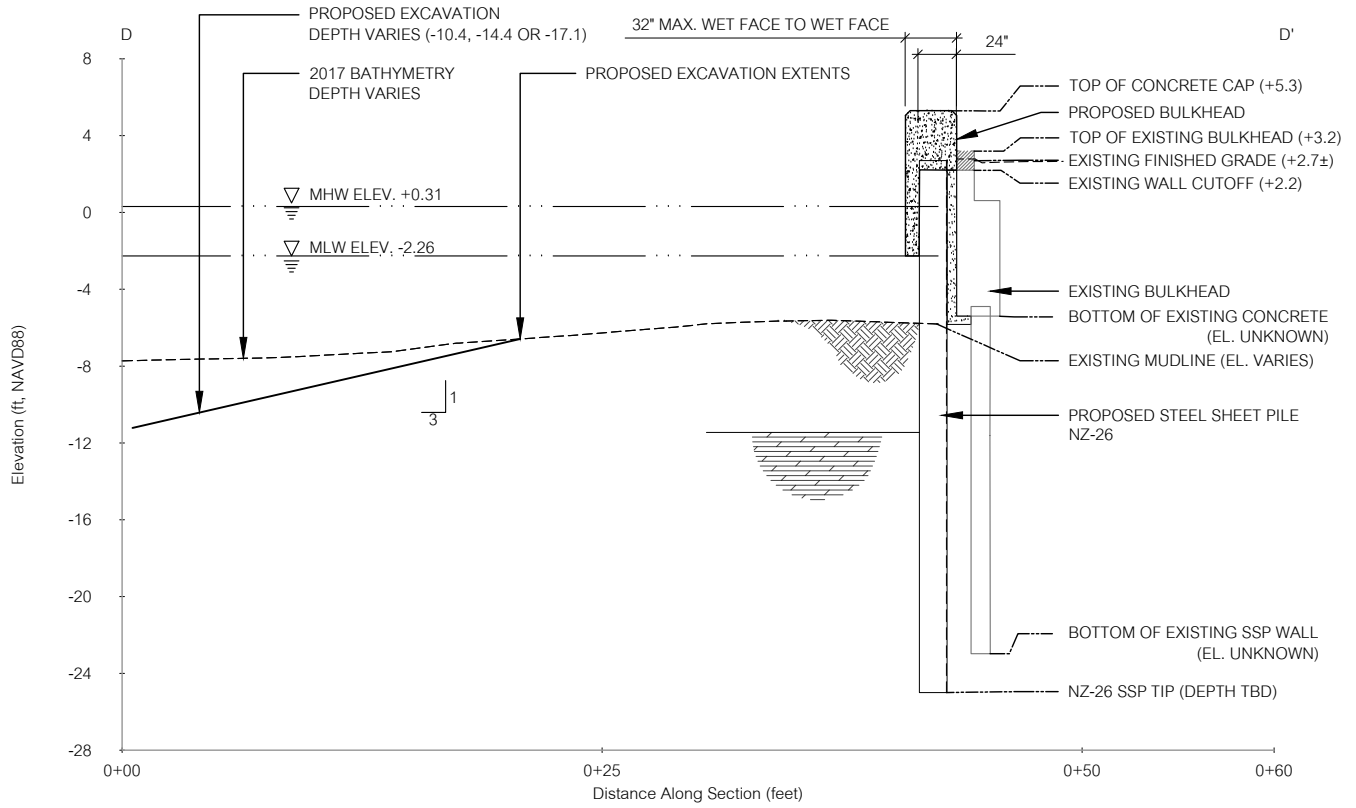
NOTES:
1. ESTIMATED EXCAVATION AREA = 642,470 SQ FT; 14.7 ACRES
2. ESTIMATED EXCAVATION VOLUME = 78,605 CU YDS
3. EXCAVATION DEPTH BETWEEN -10.4' AND -17.1' DEPTH NAVD88
4. AREA OF EXPOSED LIMESTONE ROCK ABOVE -7.0' NAVD88 TO BE EXCAVATED = 25,445 FT². EXCAVATED LIMESTONE ROCK TO BE RELOCATED TO TARPON COVE.

DATES: 04/30/2019 DES: PST DNS: RPA APP: GGT SHEET: 15 OF 19

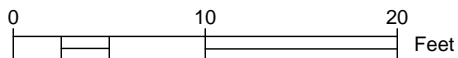
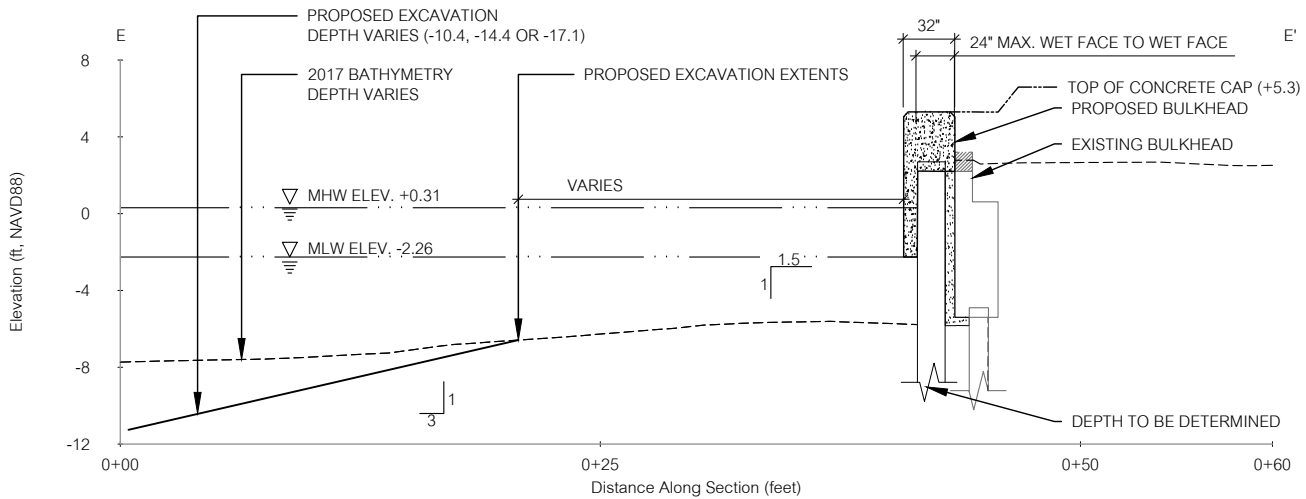
GORDON THOMSON, PE No. 60743 DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

BULKHEAD SECTION D-D' (PAGE 5)



BULKHEAD SECTION E-E' (PAGE 5)



GRAPHIC SCALE 1:10

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BULKHEAD - TYPICAL SECTIONS

NOTES:

1. EXISTING 1,535 FT STEEL SHEET PILE BULKHEAD TO BE REPLACED WITH 1,535 FT STEEL SHEET PILE BULKHEAD, 32" WATERWARD OF EXISTING
2. PROPOSED BULKHEAD ELEVATION = 5.3' NAVD88

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DATE: 04/30/2019

DRNL PST

DRS RPA

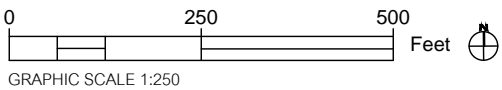
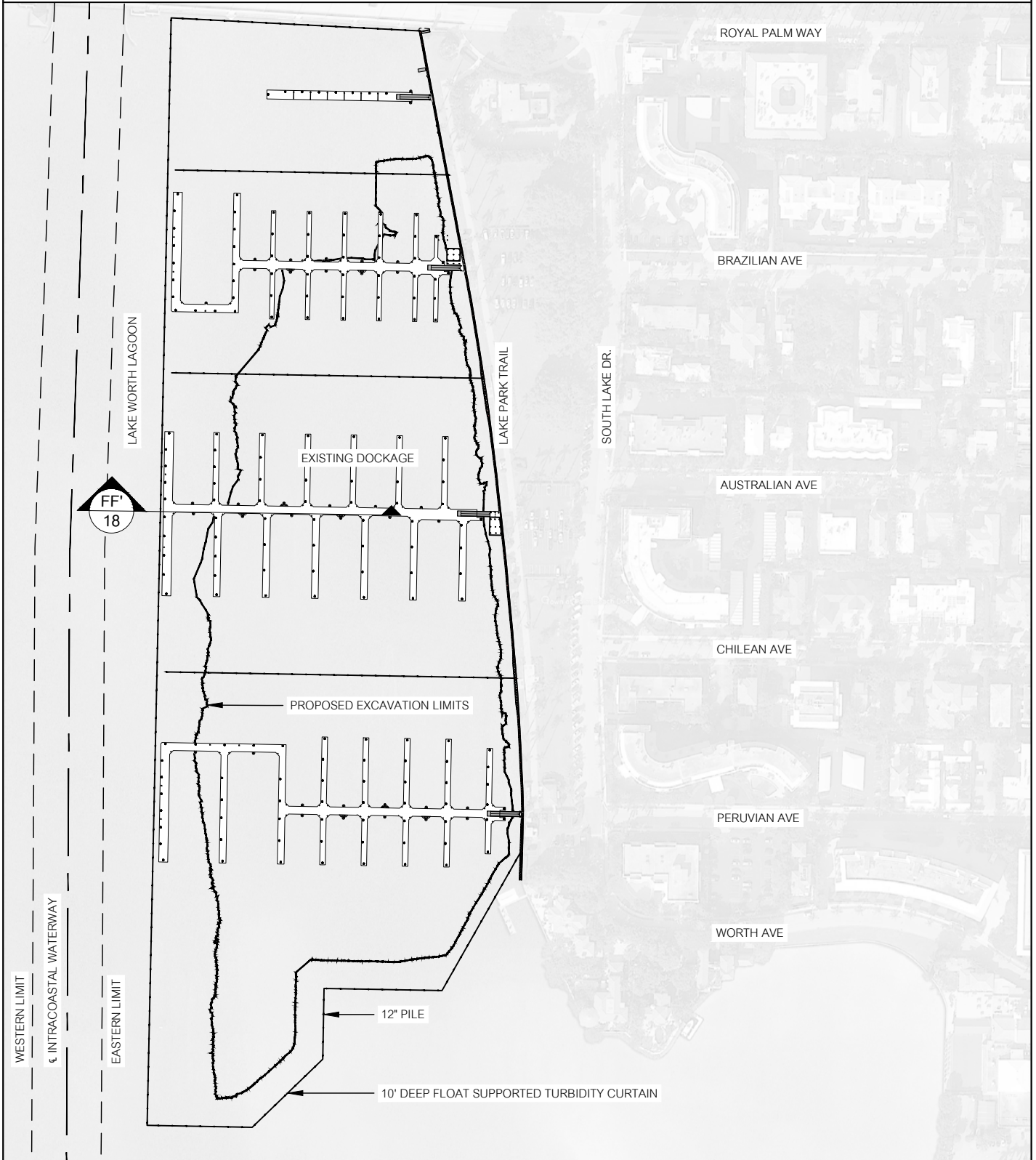
APR GGT

SHEET 16 OF 19

GORDON THOMSON, PE No. 60743

DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION

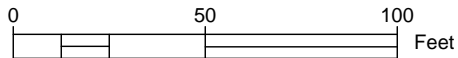
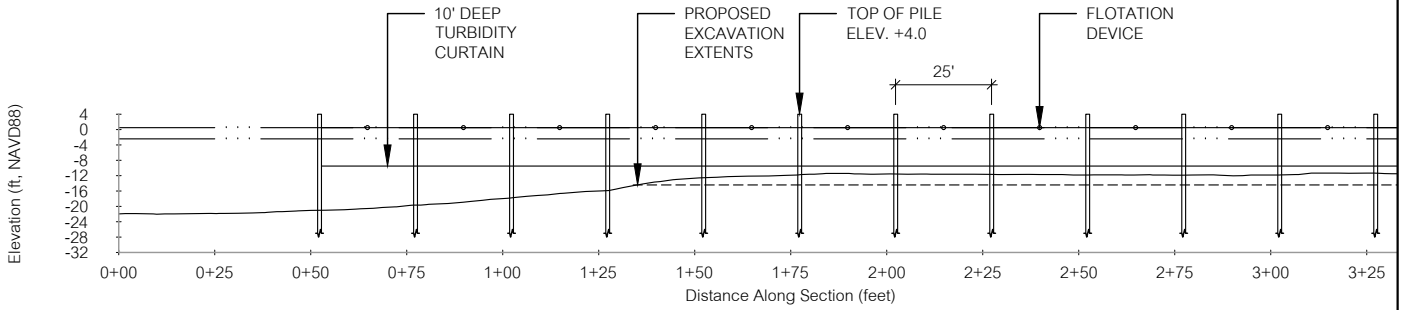


PREPARED BY: Baird. W.F. Baird & Associates 5014 NW 24th Circle Boca Raton, FL 33431	PROPOSED TURBIDITY CONTROL		NOT FOR CONSTRUCTION, FOR REGULATORY REVIEW ONLY	
	NOTES: 1. 10' DEEP FLOAT SUPPORTED TURBIDITY CURTAIN. 2. 12" PILES SPACED 25' APART TO HOLD CURTAIN IN PLACE. 205 PILES TOTAL. 3. WOODEN PILES TO BE DRIVEN WITH IMPACT HAMMER.			
DATE: 04/30/2019	DESIGNED BY: PST	DRAWN BY: RPA	CHECKED BY: GGT	SHEET: 17 OF 19
			GORDON THOMSON, PE No. 60743	DATE:

P:\1717201 PALM BEACH DOCKS REHABILITATION\DRAWINGS\GENERAL NOTES\GENERAL NOTES.dwg

TOWN OF PALM BEACH DOCKS REHABILITATION

SECTION F-F' - TURBIDITY CONTROL (PAGE 17)



GRAPHIC SCALE 1:50

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TURBIDITY CONTROL SECTION

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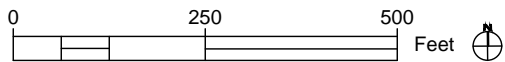
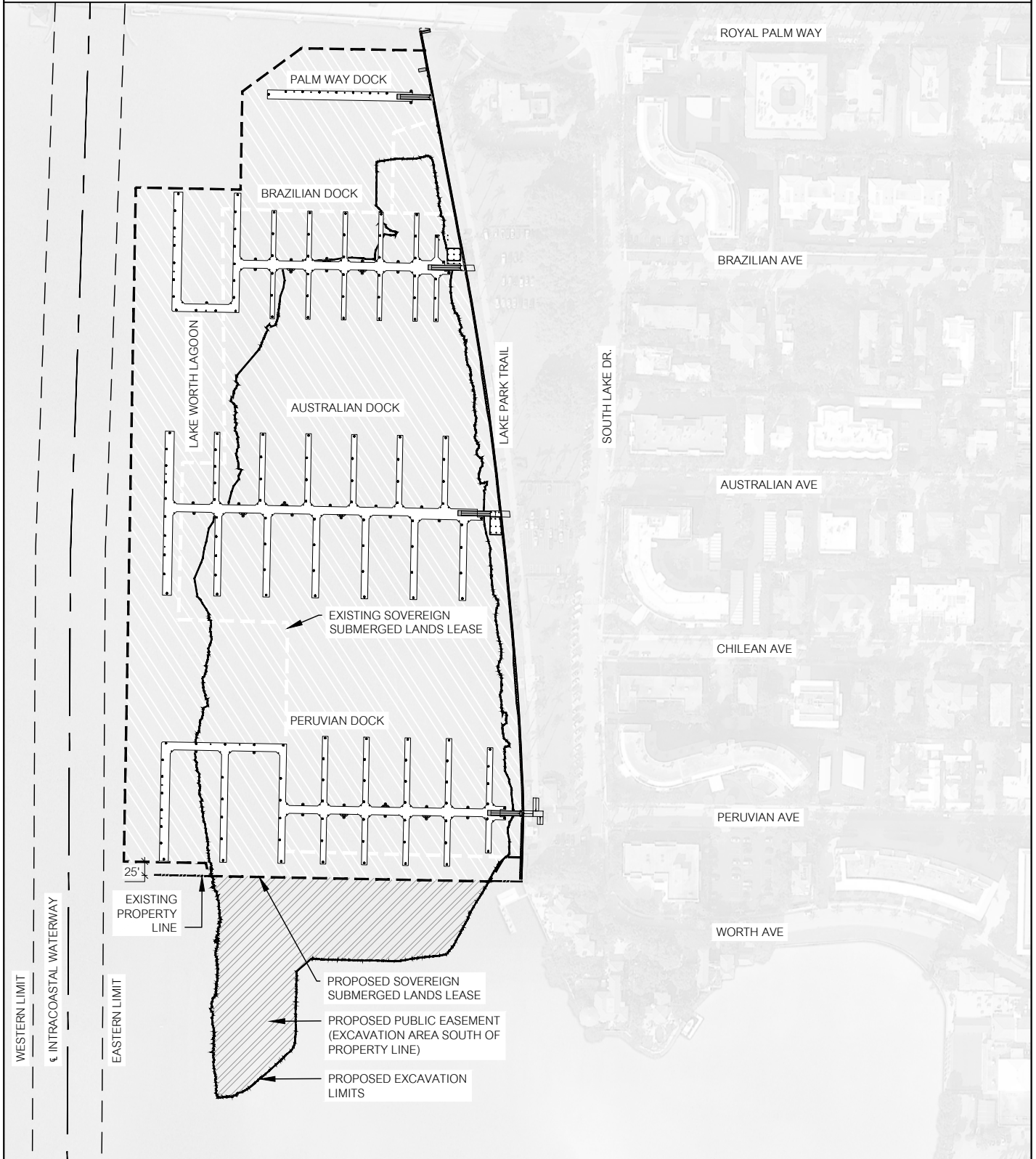
DRPL GGT

SHEET 18 OF 19

GORDON THOMSON, PE No. 60743

DATE:

TOWN OF PALM BEACH DOCKS REHABILITATION



GRAPHIC SCALE 1:250

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SOVEREIGN SUBMERGED LAND LEASE

NOTES:

1. EXISTING SOVEREIGN SUBMERGED LANDS LEASE AREA = 559,306 FT² (12.84 ACRES)
2. PROPOSED SOVEREIGN SUBMERGED LANDS LEASE AREA = 895,080 FT² (20.55 ACRES), 72,915 CU YDS EXCAVATION
3. PROPOSED PUBLIC EASEMENT AREA = 98,828 FT² (2.27 ACRES), 15,745 CU YDS EXCAVATION

DATE: 04/30/2019

DRNL PST

DRNA RPA

DRNE GGT

SHEET 19 OF 19

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GORDON THOMSON, PE No. 60743

DATE: