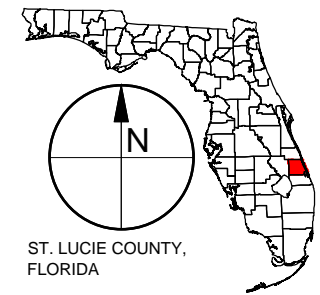
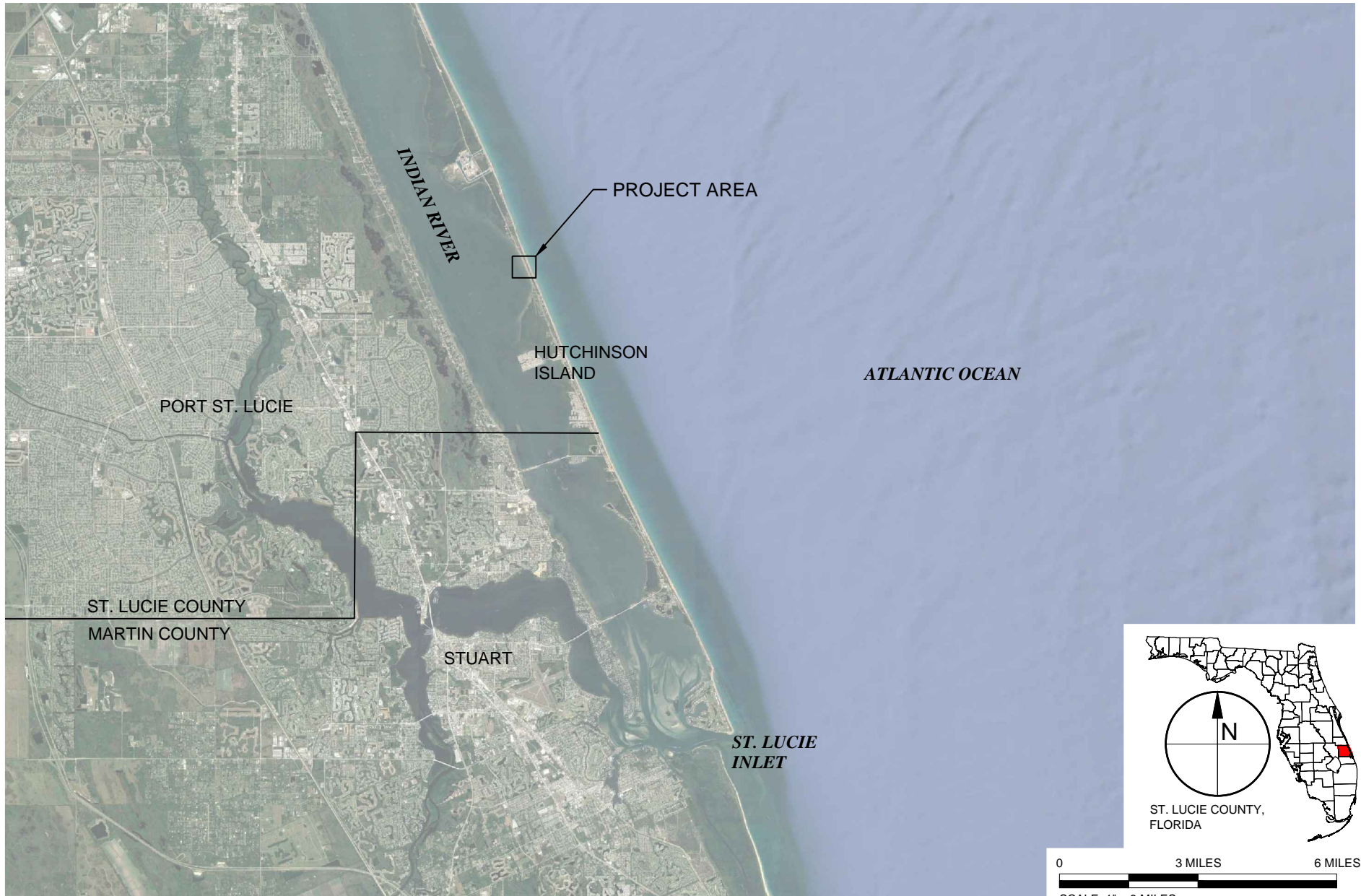
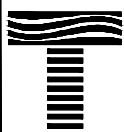


DUNCAN GREER C:\USERS\DGREER\DESKTOP\DIAMOND\2017-06-29 DIAMOND\MARINA_PERMIT.DWG 6/23/2017 10:11:52 AM



0 3 MILES 6 MILES
SCALE: 1" = 3 MILES



TAYLOR ENGINEERING INC.

1800 2ND STREET
SUITE 881
SARASOTA, FL 34236
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 1
LOCATION MAP
DIAMOND SANDS DOCKING FACILITY
ST LUCIE COUNTY, FL

PROJECT	C2016-067
DRAWN BY	DG
SHEET	1 OF 7
DATE	JUNE 2017

SEAL	
DATE	

KEITH KNIGHT, P.E. #58084

DATE

GENERAL NOTES:

1. DRAWING REFERENCES THE FLORIDA STATE PLANE EAST, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88). ELEVATIONS IN FEET UNLESS NOTED OTHERWISE.
3. AERIAL IMAGERY OBTAINED FROM FLORIDA DEPARTMENT OF TRANSPORTATION (2016). AERIAL IMAGERY DISPLAYED HEREON FOR INFORMATIONAL PURPOSES ONLY. NO PHOTOGRAPHIC ACCURACY IS IMPLIED BY THESE MAPS.
4. BATHYMETRIC SURVEY, FEDERAL NAVIGATION CHANNEL LIMITS, AND SOVEREIGN SUBMERGED LAND PARCEL LIMITS OBTAINED FROM COASTAL TECH - G.E.C. DRAWING "PROPOSED BOAT DOCKING FACILITY FOR DIAMOND SANDS", DATED 12/28/2007.
5. SUBMERGED AQUATIC VEGETATION SURVEY CONDUCTED BY COASTAL TECH - G.E.C., JUNE 2016.
6. SUBMERGED LAND PARCEL BOUNDARY PROVIDED BY LBFH, INC.
7. PARCEL BOUNDARIES AND MEAN HIGH (MHW) WATER SURVEY (FIELD LOCATED JUNE 27, 2016) PROVIDED BY CARTER ASSOCIATES, INC.
8. RIPARIAN LINES ARE NOT WITHIN FIGURE LIMITS.
9. CONSTRUCTION SHALL NOT VIOLATE STATE WATER QUALITY STANDARDS.
10. NO LIVEABOURDS ARE PROPOSED.
11. NO FUELING FACILITIES OR SEWAGE PUMPOUTS ARE PROPOSED AT THIS FACILITY.
12. MATERIALS ARE SUBJECT TO CHANGE. PILE EMBEDMENT, DIMENSIONS, AND SPACING WILL BE DETERMINED DURING FINAL DESIGN.
13. PILINGS WILL BE PAINTED, WRAPPED, OR OTHERWISE MADE FROM NON-LEACHING MATERIALS
14. THE LOCATION OF TURBIDITY CURTAINS SHOWN ON THESE DRAWINGS FOR INFORMATIONAL PURPOSES ONLY AND WILL BE INSTALLED AROUND THE PERIMETER OF THE DOCKING FACILITY WHERE CONSTRUCTION IS UNDERWAY. TURBIDITY CURTAINS SHALL BE LOCATED AND REPOSITIONED BY THE CONTRACTOR USING BEST MANAGEMENT PRACTICES TO ASSURE WATER QUALITY STANDARDS ARE MAINTAINED THROUGHOUT CONSTRUCTION.

PROPOSED TIMBER DOCK PLAN:

1. TOTAL NUMBER OF PERMANENT SLIPS:
 - 1.1. EXISTING: 0
 - 1.2. PROPOSED: 45
2. FIXED TIMBER DOCK AREA
 - 2.1. EXISTING: 0 S.F.
 - 2.2. PROPOSED: 11,940 S.F., 0.27 ACRES
3. SUBMERGED LAND PARCEL (TRUSTEES OF THE INTERNAL IMPROVEMENT FUND, DEED NO. 21483)
 - 3.1. EXISTING: 58.01 ACRES
 - 3.2. PROPOSED INCREASE FROM EXISTING: 0.0 ACRES (NONE)

D:\UNCAN GREER - C:\USERS\GREER\DESKTOP\DIAMOND\2017-06-29 DIAMOND\MARINA_PERMIT.DWG 6/23/2017 10:24:52 AM



TAYLOR ENGINEERING INC.

1800 2ND STREET
SUITE 881
SARASOTA, FL 34236
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 2
GENERAL NOTES
DIAMOND SANDS DOCKING FACILITY
ST LUCIE COUNTY, FL

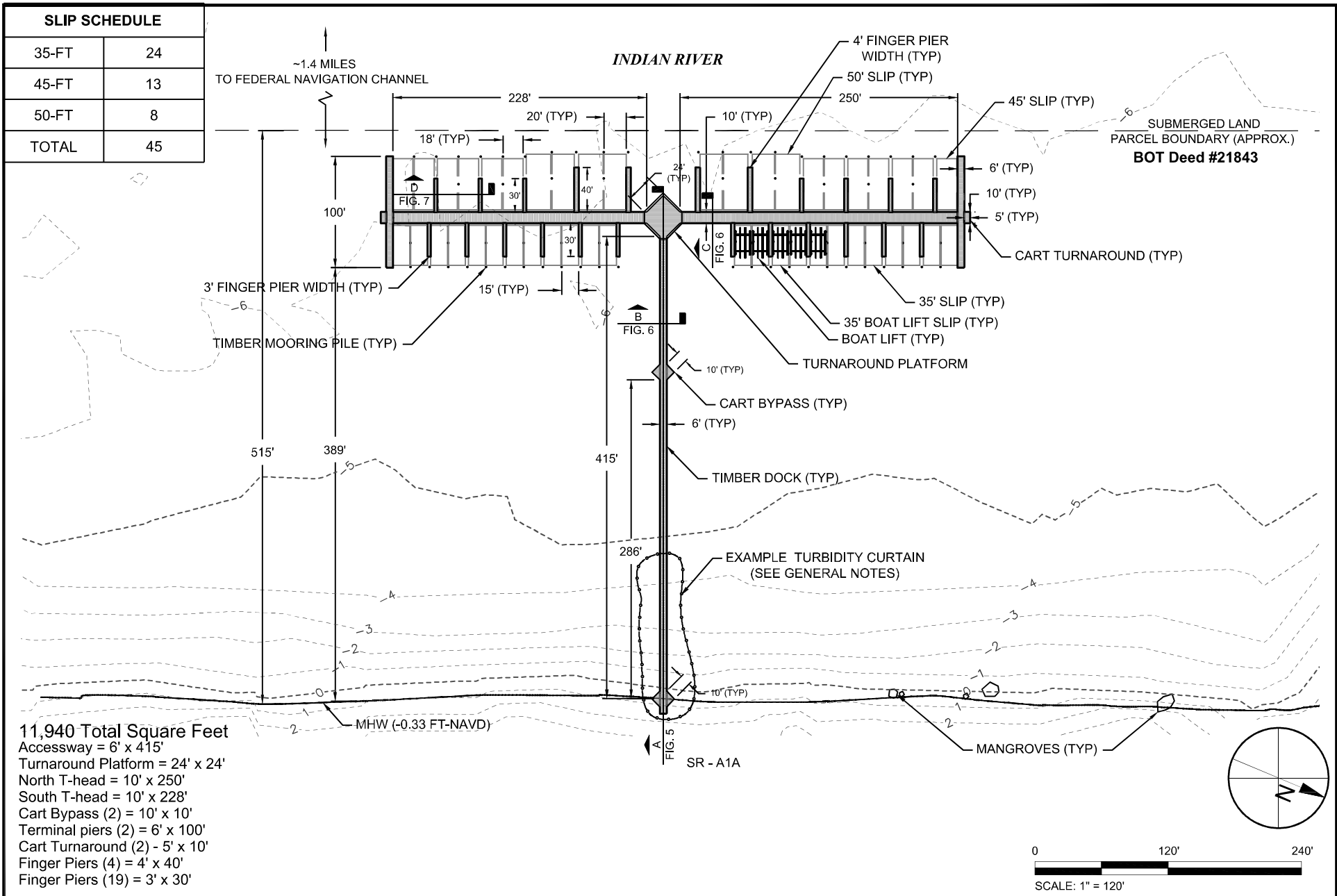
PROJECT	C2016-067
DRAWN BY	DG
SHEET	2 OF 7
DATE	JUNE 2017

SEAL

KEITH KNIGHT, P.E. #58084

DATE

SLIP SCHEDULE	
35-FT	24
45-FT	13
50-FT	8
TOTAL	45



11,940 Total Square Feet
 Accessway = 6' x 415'
 Turnaround Platform = 24' x 24'
 North T-head = 10' x 250'
 South T-head = 10' x 228'
 Cart Bypass (2) = 10' x 10'
 Terminal piers (2) = 6' x 100'
 Cart Turnaround (2) = 5' x 10'
 Finger Piers (4) = 4' x 40'
 Finger Piers (19) = 3' x 30'


TAYLOR ENGINEERING INC.
 1800 2ND STREET
 SUITE 881
 SARASOTA, FL 34236
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 3
 PLAN VIEW
 DIAMOND SANDS DOCKING FACILITY
 ST LUCIE COUNTY, FL

PROJECT	C2016-067	SEAL
DRAWN BY	DG	
SHEET	3 OF 7	
DATE	JUNE 2017	DATE
		KEITH KNIGHT, P.E. #58084

D:\CAN GREEN\ C:\USERS\GREG\DESKTOP\DIAMOND\2017-07-18_DIAMOND\MARINA_PERMIT.DWG 7/19/2017 9:18:59 AM

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

SAV COVERAGE (%)

COASTAL TECH, 2016

- 76 - 100%
- 51 - 75%
- 26 - 50%
- 6 - 25%
- 1 - 5%
- < 1%

Species

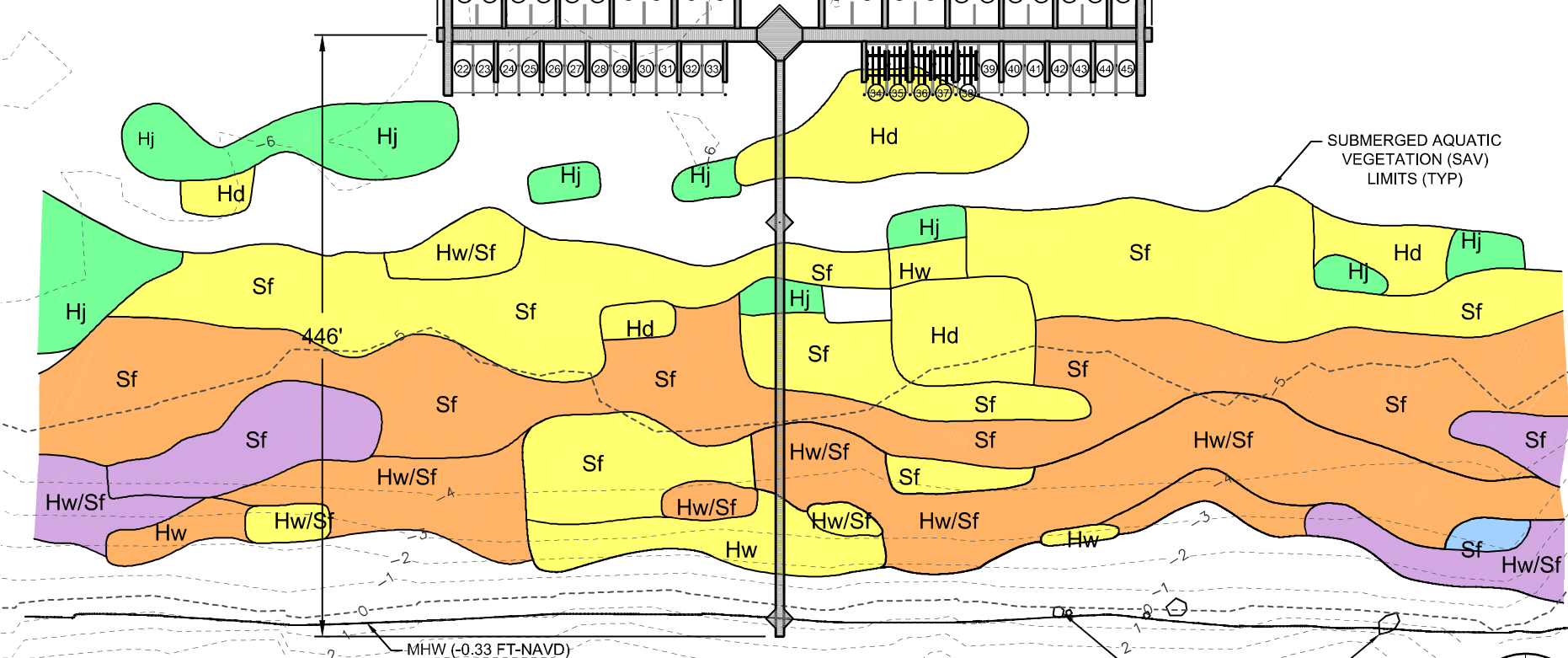
- Hw = *Halodule wrightii*
- Sf = *Syringodium filiforme*
- Hd = *Halophila decipiens*
- Hj = *Halophila johnsonii*

INDIAN RIVER

530'

SUBMERGED LAND
PARCEL BOUNDARY (APPROX.)
BOT Deed #21843

SUBMERGED AQUATIC
VEGETATION (SAV)
LIMITS (TYP)

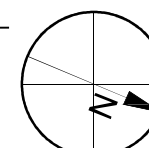


- Accessway = 6' x 415'
- Turnaround Platform = 24' x 24'
- North T-head = 10' x 250'
- South T-head = 10' x 228'
- Cart Bypass (2) = 10' x 10'
- Terminal piers (2) = 6' x 100'
- Cart Turnaround (2) = 5' x 10'
- Finger Piers (4) = 4' x 40'
- Finger Piers (19) = 3' x 30'

APPROXIMATE
LIMIT OF ASPHALT

SR - A1A

MANGROVES (TYP)



TAYLOR ENGINEERING INC.

1800 2ND STREET
SUITE 881
SARASOTA, FL 34236
CERTIFICATE OF AUTHORIZATION # 4815

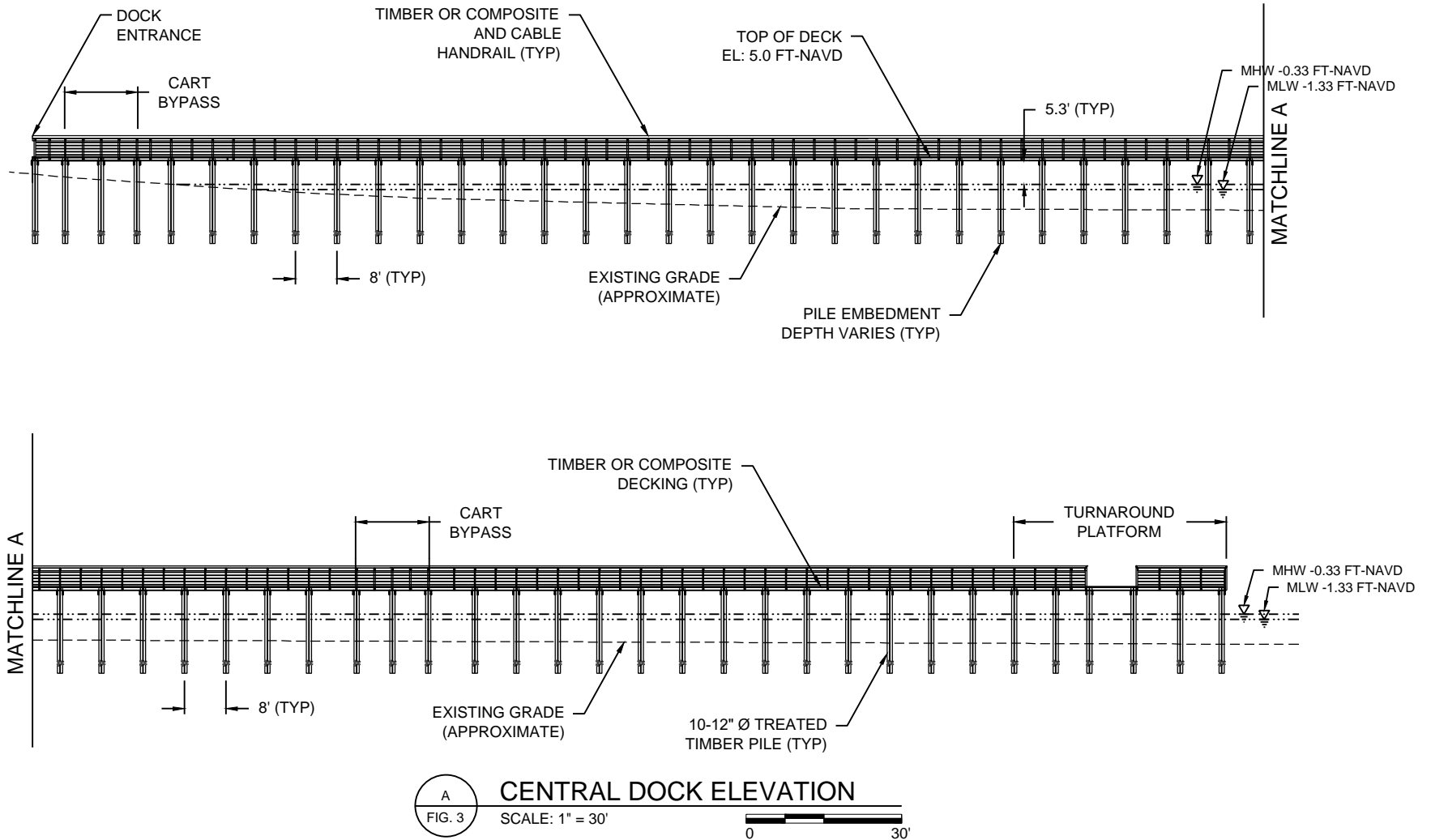
FIGURE 4
PLAN VIEW AND SUBMERGED AQUATIC VEGETATION
DIAMOND SANDS MARINA
ST LUCIE COUNTY, FL

PROJECT	C2016-067
DRAWN BY	DG
SHEET	4 OF 7
DATE	JUNE 2017

SEAL	
KEITH KNIGHT, P.E. #58084	
DATE	

D:\UNCAN GREER - C:\USERS\GREER\DESKTOP\DIAMOND\2017-06-23_DIAMOND\MARINA_PERMIT.DWG 6/23/2017 10:12:04 AM

D:\UNCAN\GREER\C:\USERS\GREER\DESKTOP\DIAMOND\2017-06-09_DIAMOND\MARINA_PERMIT_X-SECTION.DWG 6/23/2017 9:16:52 AM



A **CENTRAL DOCK ELEVATION**
 FIG. 3 SCALE: 1" = 30'



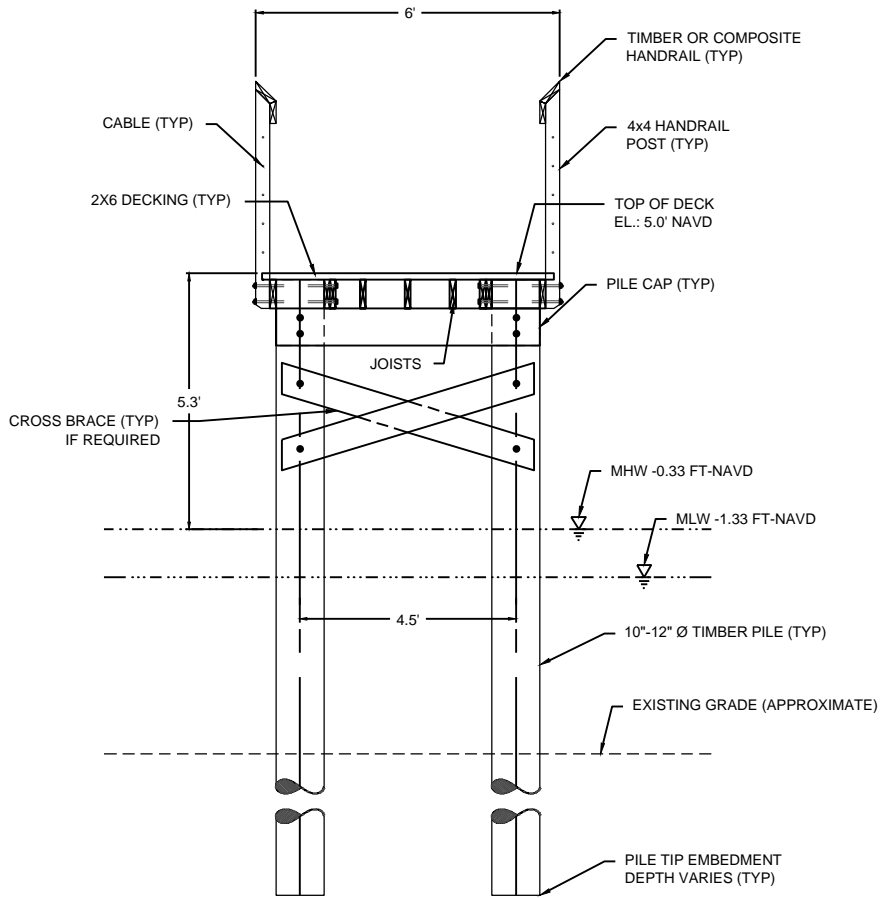
TAYLOR ENGINEERING INC.
 1800 2ND STREET
 SUITE 881
 SARASOTA, FL 34236
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 5
 CENTRAL DOCK ELEVATION
 DIAMOND SANDS MARINA
 ST LUCIE COUNTY, FL

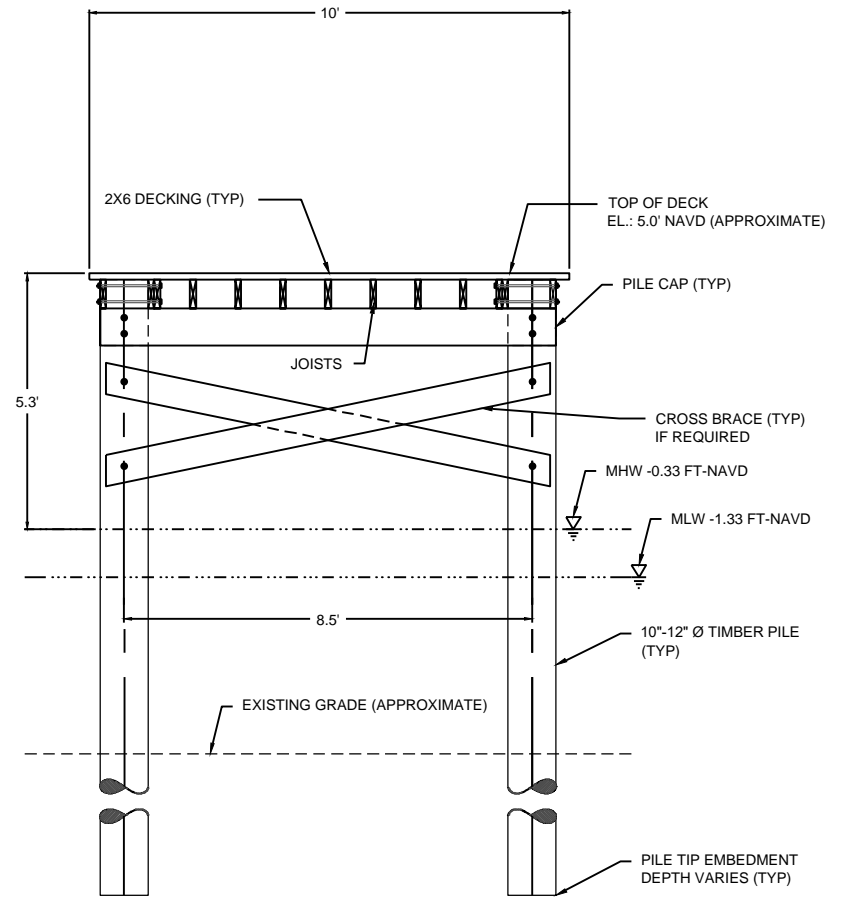
PROJECT	C2016-067
DRAWN BY	DG
SHEET	5 OF 7
DATE	JUNE 2017

SEAL	
DATE	

DUNCAN GREER C:\USERS\GREER\DESKTOP\DIAMOND\2017-06-09_DIAMOND\MARINA_PERMIT_X-SECTION.DWG 6/23/2017 9:16:54 AM



B
FIG. 3 **CENTRAL DOCK SECTION**
 SCALE: 1" = 4'



C
FIG. 3 **T-DOCK SECTION**
 SCALE: 1" = 4'



TAYLOR ENGINEERING INC.

1800 2ND STREET
 SUITE 881
 SARASOTA, FL 34236
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 6
 TYPICAL DOCK SECTIONS
 DIAMOND SANDS MARINA
 ST LUCIE COUNTY, FL

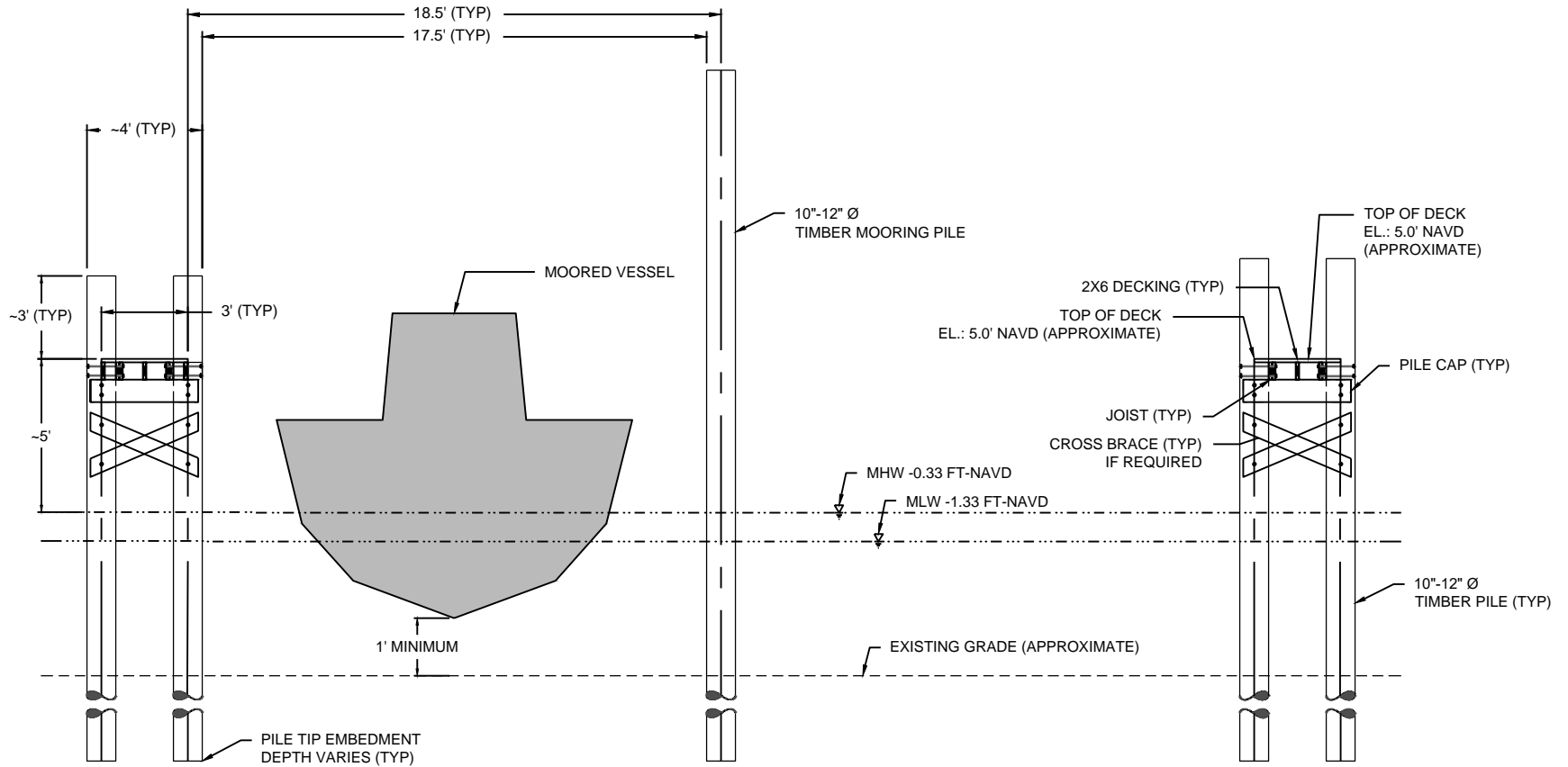
PROJECT	C2016-067
DRAWN BY	DG
SHEET	6 OF 7
DATE	JUNE 2017

SEAL

KEITH KNIGHT, P.E. #58084

DATE

DUNCAN GREER C:\USERS\GREER\DESKTOP\DIAMOND\2017-06-09_DIAMOND\MARINA_PERMIT_X-SECTION.DWG 6/23/2017 9:16:55 AM



D
FIG. 3

45-FT SLIP SECTION

SCALE: 1" = 6'



TAYLOR ENGINEERING INC.

1800 2ND STREET
SUITE 881
SARASOTA, FL 34236
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 7
TYPICAL SLIP SECTION
DIAMOND SANDS MARINA
ST LUCIE COUNTY, FL

PROJECT	C2016-067
DRAWN BY	DG
SHEET	7 OF 7
DATE	JUNE 2017

SEAL

KEITH KNIGHT, P.E. #58084

DATE