

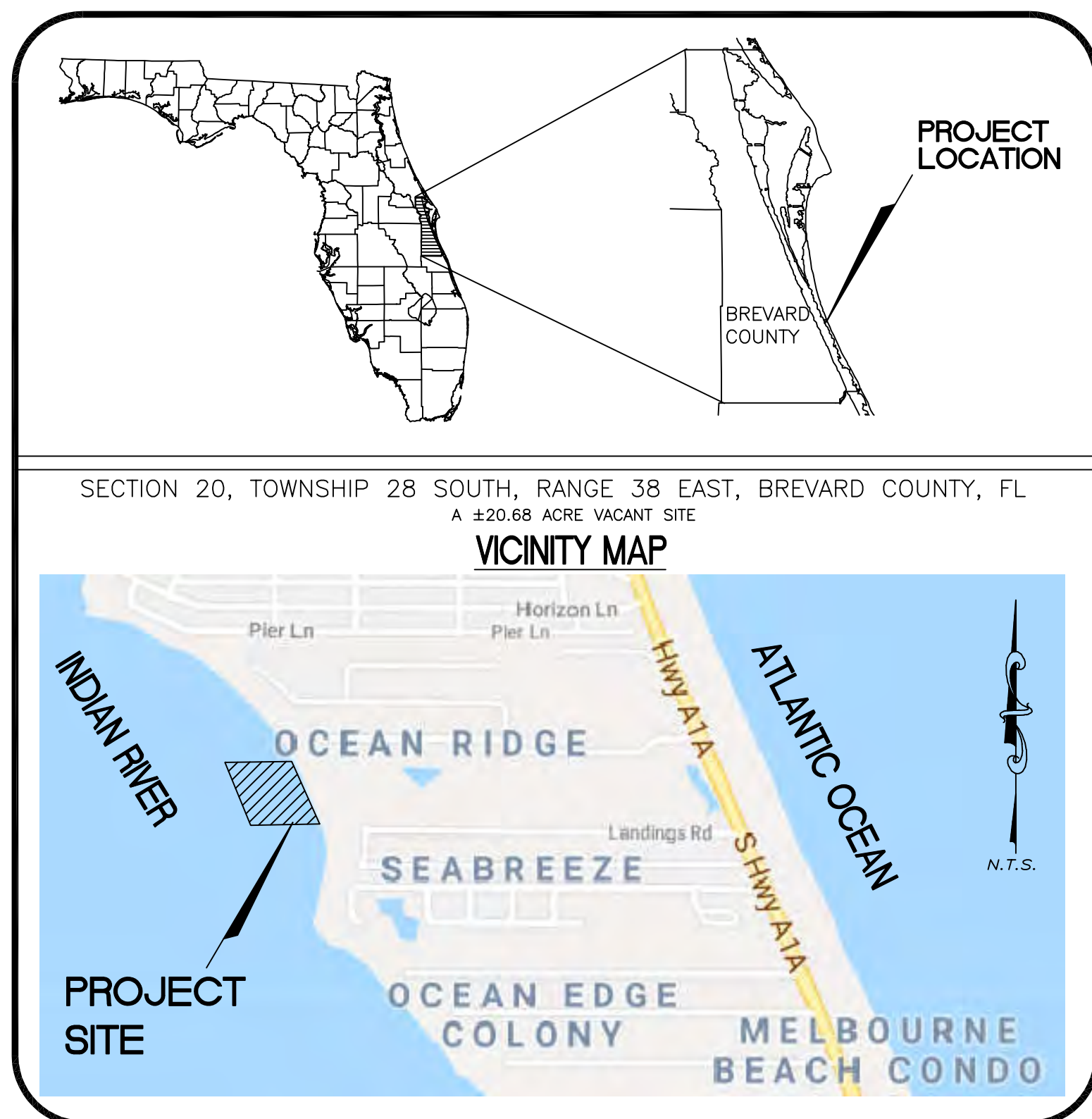
# HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT

## BREVARD COUNTY, FL

### CONSTRUCTION DRAWINGS

#### LOCATION MAP

##### SITE GENERAL LOCATION - 100 VERSAILLES DRIVE



Prepared for  
**PHOENIX PARK FUND V, LP**  
**119 SIGNATURE DR.**  
**MELBOURNE BEACH, FLORIDA 32951**  
**PHONE: (321) 302-1047**

Prepared by  
**ATKINS** 7175 Murrell Road  
 Melbourne, FL 32940  
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#### DRAWING INDEX

##### (PROVIDED BY ATKINS)

SHEET NUMBER	SHEET DESCRIPTION
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#### LEGAL DESCRIPTION

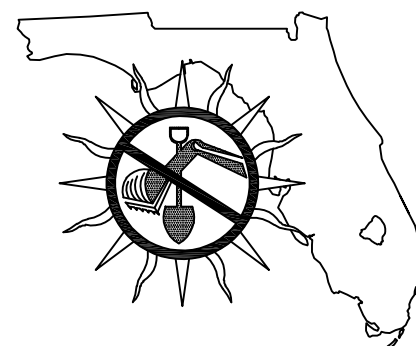
A PARCEL OF SUBMERGED LAND LYING IN GOVERNMENT LOT 2, SECTION 20, TOWNSHIP 28 SOUTH, RANGE 38 EAST, BREVARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH 400 FEET OF THE SOUTH 700 FEET OF GOVERNMENT LOT 2, WITH THE SAFE UPLAND LINE OF THE INDIAN RIVER (1.0 FEET N.G.V.D. CONTOUR LINE); THENCE NORTH 22°26'24" WEST ALONG THE SAID SAFE UPLAND LINE A DISTANCE OF 134.38 FEET; THENCE CONTINUE ALONG THE SAID SAFE UPLAND LINE NORTH 20°31'02" WEST A DISTANCE OF 79.50 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 83°49'30" WEST A DISTANCE OF 153.67 FEET; THENCE SOUTH 06°10'31" EAST A DISTANCE OF 32.00 FEET; THEN SOUTH 83°49'30" WEST A DISTANCE OF 241.00 FEET; THENCE SOUTH 06°10'31" EAST A DISTANCE OF 35.00 FEET; THENCE SOUTH 83°49'30" WEST A DISTANCE OF 85.00 FEET; THENCE NORTH 06°10'31" WEST A DISTANCE OF 85.00 FEET; THENCE NORTH 06°10'31" WEST A DISTANCE OF 140.00 FEET; THENCE SOUTH 056°10'31" EAST A DISTANCE OF 35.00 FEET; THENCE NORTH 83°49'30" EAST A DISTANCE OF 241.00 FEET; THENCE SOUTH 06°10'31" EAST A DISTANCE OF 32.00 FEET; THENCE NORTH 89°49'30" EAST A DISTANCE OF 151.85 FEET; TO THE SAID SAFE UPLAND LINE; THENCE ALONG SAID UPLAND LINE SOUTH 23°00'02" EAST A DISTANCE OF 6.27 FEET TO THE POINT OF BEGINNING.

CONTAINING 29,686.36 SQUARE FEET (0.682 ACRES) OF LAND MORE OR LESS.

**SEPTEMBER 2018**

"INVESTIGATE BEFORE YOU EXCAVATE"



CALL SUNSHINE @ 1-800-432-4770  
 FL. STATUTE 553.851 (1979) REQUIRES A MIN. OF 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE.

**OWNER**  
 PHOENIX PARK FUND V, LP  
 119 SIGNATURE DRIVE  
 MELBOURNE BEACH, FL 32951

**CIVIL ENGINEER**  
 ATKINS  
 7175 MURRELL ROAD  
 MELBOURNE, FL 32940

NOTE: HARBOR ISLAND BEACH CLUB PROJECT NAME IS ALSO KNOWN AS THE FORMER HAMPTONS APARTMENT SITE.

**BID SET**

**TAX PARCEL ID**  
 28-38-20-00-00005.0-0000.00  
 28-38-20-00-00006.0-0000.00

SHEET SIZE: 24" X 36"

**NOT APPROVED FOR CONSTRUCTION UNLESS STAMPED APPROVED FOR CONSTRUCTION.**

**GENERAL NOTES:**

- WORK SHALL BE IN ACCORDANCE WITH THE APPROPRIATE AUTHORITY HAVING JURISDICTION (AHJ) PRIMARILY FDEP AND ACOE RULES AND REGULATIONS. CONTRACTOR SHALL KEEP A COPY ONSITE OF ALL PROJECT PERMITS AND SIGNED AND SEALED DRAWINGS.
- THE ARRANGEMENT OF DRAWINGS AND/OR THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS, AND ARTICLES ARE FOR CLARITY ONLY AND SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. THE CONTRACTOR MAY SUBCONTRACT THE WORK IN SUCH DIVISIONS AS HE/SHE SEES FIT AND IS ULTIMATELY RESPONSIBLE FOR FURNISHING ALL WORK SHOWN ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS.
- IN THE EVENT OF INCONSISTENCIES BETWEEN PARTS OF THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES AND ORDINANCES, THE CONTRACTOR SHALL: (1) PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY OF WORK; OR (2) COMPLY WITH THE MORE STRINGENT REQUIREMENT: EITHER OR BOTH IN ACCORDANCE WITH THE ENGINEER'S INTERPRETATION. TECHNICAL SPECIFICATIONS TAKE PRIORITY OF GENERAL SPECIFICATION S AND DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. ANY WORK SHOWN ON ONE DRAWING SHALL BE CONSTRUED TO BE SHOWN IN ALL DRAWINGS AND THE CONTRACTOR WILL COORDINATE THE WORK AND THE DRAWINGS. IF ANY PORTION OF THE CONTRACT DOCUMENTS SHALL BE IN CONFLICT WITH ANY OTHER PORTION, THE VARIOUS DOCUMENTS COMPRISING THE CONTRACT SHALL GOVERN IN THE FOLLOWING ORDER OF PRECEDENCE: THE OWNER CONTRACTOR AGREEMENT; MODIFICATIONS; ADDENDA; AND SUPPLEMENTARY CONDITIONS; THE GENERAL CONDITIONS; THE SPECIFICATIONS; THE DRAWINGS; AS BETWEEN SCHEDULES AND INFORMATION GIVEN ON DRAWINGS, THE SCHEDULES SHALL GOVERN;AS BETWEEN FIGURES GIVEN ON DRAWINGS AND THE SCALED MEASUREMENTS, THE FIGURES SHALL GOVERN, AS BETWEEN LARGE- SCALE DRAWINGS AND SMALL SCALE DRAWINGS, THE LARGER SHALL GOVERN/ ANY SUCH CONFLICT OR INCONSISTENCY BETWEEN OR IN THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER WHOSE DECISION THEREON SHALL BE FINAL AND CONCLUSIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR (SURVEYING, ETC) TO CONSTRUCT THE FACILITY AS SHOWN. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS. ANY DISCREPANCY BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO COMMENCING ANY CONSTRUCTION WORK.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CHECK THE DRAWINGS AGAINST THE SITE AND THE WORK AND NOTIFY THE PROJECT REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES IN EITHER DIMENSIONS AND/OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE PROJECT REPRESENTATIVE.
- THE CONTRACTOR SHALL ANTICIPATE TIDAL FLUCTUATIONS DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL DETERMINE HIS WORK SCHEDULE FROM TIDE TABLES FOR THE PERIOD OF CONSTRUCTION. THE SITE IS SUBJECT TO VARIABLE WAVE AND SURGE CONDITIONS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR MARINE STRUCTURES AND SHORELINE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL WATER QUALITY REQUIREMENTS AND REGULATORY PERMITS ISSUED BY LOCAL, STATE AND FEDERAL AUTHORITIES PRIOR TO AND AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNS, LIGHTS, SIGNALS AS REQUIRED BY THE PROJECT REPRESENTATIVE TO ADEQUATELY WARN THE PUBLIC AGAINST DANGER AND TRESPASS WITHIN THE DESIGNATED CONSTRUCTION SITE.
- ALL WORK DONE ON THIS PROJECT IS MADE IN REFERENCE TO THE SURVEY CONDUCTED BY BRIEL AND ASSOCIATES. REFERENCE TO NATIONAL GEODETIC VERTICAL DATUM 1988 (NAVD88) PER BRIEL AND ASSOCIATES, DATED 07/11/2018. MEAN HIGH WATER (MHW) = -0.91' NAVD88.
- ALL WORK PERFORMED TO REFURBISH THE EXISTING DOCK SHOULD BE CONSISTENT WITH FDEP AND ARMY CORPS REQUIREMENTS.
- ALL HARDWARE INCLUDING BOLTS, CLIPS, STRAPS, SCREWS, ETC. SHALL BE AISI GRADE 316 STAINLESS STEEL.
- ALL SPECIFIED STEEL CONNECTION HARDWARE SHALL BE OF SUITABLE CORROSION RESISTANCE FOR SALT WATER CONDITIONS.
- THE EXISTING DOCK IS CONSISTENT WITH BREVARD COUNTY MANATEE PROTECTION PLAN.
- THE GOVERNING BUILDING CODE IS THE FLORIDA BUILDING CODE (FBC), 2017 EDITION WITH LATEST SUPPLEMENTS.

**COORDINATION:**

- DOCK ("C") DRAWINGS SHALL BE WORKED WITH DEMOLITION, ARCHITECTURAL/ BUILDING STRUCTURAL, (WHEN APPLICABLE) CIVIL AND ELECTRICAL DRAWINGS, ETC. TO PROPERLY CONSTRUCT THE PROPOSED MARINE IMPROVEMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT REPRESENTATIVE IN A TIMELY MANNER, BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL COORDINATE ALL HIS ON-SITE CONSTRUCTION ACTIVITIES WITH THE OWNER AND THE ENGINEER.

**GEOTECHNICAL DATA:**

- TIMBER PILE FOUNDATIONS FOR MARGINAL DOCKS AND TIMBER MOORING PILES ARE PER THE GEOTECHNICAL EXPLORATION REPORTS TITLED:
- "SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION PROPOSED DOCK STRUCTURE, HARBOR BEACH CLUB - MELBOURNE BEACH, FLORIDA, DATED FEBRUARY 28, 2018."
- THE REPORTS WERE PREPARED BY: ARDAMAN & ASSOCIATES, INC. 1300 N.COCOA BLVD., COCOA, FLORIDA 32922. PHONE: 321-632-2503. REPORTS ARE AVAILABLE UPON WRITTEN REQUEST TO THE PROJECT REPRESENTATIVE.

**DIMENSIONS:**

- DIMENSIONS SHOWN ON THE DOCK ("C") DRAWINGS ARE APPROXIMATE BASED ON BEST AVAILABLE INFORMATION.
- ALL NEW STRUCTURAL WORK INCLUDING SHEET PILING, CONCRETE AND WOOD PILINGS, AND MARGINAL DOCK CONSTRUCTION SHALL BE ACCURATELY FIELD MEASURED AND DIMENSIONS VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS.
- CONTRACTOR SHALL BE PREPARED TO MAKE FIELD ADJUSTMENTS TO ACCURATELY FIT THE NEW WORK TO EXISTING CONDITIONS.

**DESIGN CRITERIA:**

- LIVE LOADING ON DOCKS: UNIFORM LOADING OF 125 PSF.
- LATERAL LOADING ON MOORING PILINGS : 1,100 POUNDS.
- WIND LOADING ON DOCKS: WIND PRESSURES PER FBC 2007 EDITION (ASCE 7-05).  
BASIC WIND SPEED = 146 MPH.  
WIND IMPORTANCE FACTOR = 1.0.  
BUILDING CATEGORY = II.  
WIND EXPOSURE CLASS = C.
- HYDRODYNAMIC UPLIFT ON DOCKS: 125 PSF.

**CONTRACTOR'S SUBMITTALS:**

THE FOLLOWING MINIMUM SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER'S ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION ACTIVITY. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS:

- TIMBER PILING CERTIFICATIONS
- MOORING CLEATS
- METAL FABRICATIONS
- RUBBER DOCK FENDERS
- PILE DRIVING CRITERIA AND PROCEDURES
- HDPE WRAP
- HARDWARE
- SECURITY GATE
- WATER PIPE AND APPURTENANCES
- ELECTRICAL COMPONENTS
- DEMOLITION PLAN

**WOOD PILES/ TIMBER:**

- ALL WOOD PILES SHALL BE DEMERARA GREENHEART (NECTANDRA RADIOSI). PILES SHALL BE DRIVEN TO 12 (TWELVE) FEET EMBEDMENT (BELOW THE CHANNEL BOTTOM) IF THE WATER DEPTH IS 5 (FIVE) FEET OR LESS. PILES SHALL BE DRIVEN TO 20 (TWENTY) FEET EMBEDMENT WHERE THE WATER DEPTH IS GREATER THAN 5 (FIVE) FEET. ALL PILES SHALL BE DRIVEN INTO FIRM SOILS AND TO A MINIMUM BEARING CAPACITY OF TEN (10) TONS (SERVICE LOAD).
- REFER TO PLANS FOR SPECIFICATIONS.
- ALL LUMBER SHALL BE PRESSURED TREATED (PT). REFER TO STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
- LOAD BEARING FRAMING SHALL BE #2 SOUTHERN YELLOW PINE (SYP) OR BETTER, 19 % MOISTURE CONTENT, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS
- TIMBER FRAMING SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARDS U2 AND T1 AND SHALL BE SUITABLE FOR MARINE USE, CATEGORY UC5C.
- TIMBER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS), 2005 EDITION WITH SUPPLEMENTS.
- WOOD PILES SHALL BE OF MINIMUM DIAMETER STATED IN THE DRAWINGS AND SHALL BE PLACED LEVEL AND PLUMB.

**CONSTRUCTION ACTIVITIES:**

- BEST MANAGEMENT PRACTICES (PRIMARILY TURBIDITY SCREENS AND FLOATING TURBIDITY BARRIERS) FOR EROSION AND TURBIDITY CONTROL SHALL BE IMPLEMENTED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND OPERATION OF THE PERMITTED ACTIVITY TO PREVENT SILTATION AND TURBID DISCHARGES IN EXCESS OF STATE WATER STANDARDS PURSUANT TO CHAPTER 62-302, F.A.C. THE PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND TURBIDITY CONTROL DEVICES AND PROCEDURES ARE INSPECTED AND MAINTAINED DAILY DURING ALL PHASES OF CONSTRUCTION AUTHORIZED BY THIS PERMIT UNTIL ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION ARE SUFFICIENTLY STABILIZED TO PREVENT EROSION, SILTATION, AND TURBID DISCHARGES.
- UPON FINAL COMPLETION OF THE PROJECT AND UPON REASONABLE ASSURANCE THAT THE PROJECT IS NO LONGER A POTENTIAL TURBIDITY SOURCE, THE PERMITTEE WILL BE RESPONSIBLE FOR THE REMOVAL OF THE TURBIDITY BARRIERS. THE TURBIDITY CONTROL DEVICES SHALL BE REMOVED NO LATER THAN ONE YEAR FROM COMPLETION OF THE PROJECT. ALL TURBIDITY CONTROL DEVICES SHALL BE DISPOSED OF IN AN UPLAND DISPOSAL AREA.
- THE LIMITS OF CONSTRUCTION SHALL BE DELINEATED BY SILT FENCING OR A FLOATING TURBIDITY BARRIER. THE PERMITTEE SHALL BEAR THE RESPONSIBILITY OF NOTIFYING ALL CONSTRUCTION WORKERS THAT SILT FENCING OR TURBIDITY BARRIER REPRESENTS THE LIMITS OF ALL CONSTRUCTION ACTIVITIES. THE PERMITTEE SHALL BEAR THE RESPONSIBILITY OF KEEPING ALL CONSTRUCTION WORKERS AND EQUIPMENT OUT OF THE ADJACENT WETLANDS AND SURFACE WATERS WHERE WORK HAS NOT BEEN PERMITTED FOR IMPACTS.
- THERE SHALL BE NO STOCK PILING OF TOOLS, MATERIALS (I.E., LUMBER, PILINGS, RIPRAP, AND DEBRIS) WITHIN WETLANDS, ALONG THE SHORELINE WITHIN THE LITTORAL ZONE, OR ELSEWHERE WITHIN WETLANDS/WATERS OF THE STATE UNLESS SPECIFICALLY APPROVED IN THIS PERMIT. ANY AND ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM WETLANDS/ WATERS OF THE STATE WITHIN 14 DAYS OF COMPLETION OF THE WORK AUTHORIZED BY THIS PERMIT.
- CONSTRUCTION EQUIPMENT SHALL NOT BE REPAIRED OR REFUELED IN WETLANDS OR ELSEWHERE WITHIN WATERS OF THE STATE.
- THE STANDARD MANATEE CONSTRUCTION CONDITIONS FOR IN-WATER WORK (2011) MUST BE FOLLOWED FOR ALL IN-WATER ACTIVITY.
- CONTRACTOR SHALL SUPPLY THE AS-BUILT DRAWING OF THE DOCK REFURBISHMENT TO THE OWNER AND ENGINEER AFTER PROJECT COMPLETION.

**ABBREVIATIONS:**

- |  |                                 |
|--|---------------------------------|
| ACOE- ARMY CORPS OF ENGINEERS                        | GALV. - GALVANIZED              |
| A.B. - ANCHOR BOLT                                   | MAX. - MAXIMUM                  |
| ADD'L ADD - ADDITIONAL                               | MIN. - MINIMUM                  |
| ALT. - ALTERNATE                                     | N.T.S. - NOT TO SCALE           |
| B/ BOT. - BOTTOM                                     | O.C. - ON CENTER                |
| BLDG. - BUILDING                                     | P.L. - PLATE                    |
| COV. - COVER   | P.S.F. - POUND PER SQUARE FOOT  |
| C - CENTER LINE                                      | P.S.I. - POUND PER SQUARE INCH  |
| C.J. - CONTRUCTION JOINT                             | REF. - REFERENCE                |
| DET. (S) - DETAIL(S)                                 | REQ'D - REQUIRED                |
| DIA. - DIAMETER                                      | SECT. - SECTION                 |
| DWGS. - DRAWINGS                                     | SHT. - SHEET                    |
| EA. - EACH   | SP. - SPACE (S)                 |
| E.F. - EACH FACE                                     | SPECS. - SPECIFICATIONS         |
| E.W. - EACH WAY                                      | S.S. - STAINLESS STEEL          |
| EL. - ELEVATION                                      | T&B - TOP AND BOTTOM            |
| EQ. SP. - EQUAL SPACED                               | T/ - TOP OF                     |
| E.J. - EXPANSION JOINT                               | TYP. - TYPICAL                  |
| FIN. GR. - FINISH GRADE                              | U.O.N. - UNLESS OTHERWISE NOTED |
| FDEP- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION | WI/ - WITH                      |

**PERMITS-ISSUED:**

FDEP - ERP05-05-0292305-001-EI: CONSTRUCTION COMMENCEMENT NOTICE MUST BE FILED FORTY EIGHT (48) HOURS PRIOR TO CONSTRUCTION. SEE PERMIT. CONTRACTOR MUST READ AND COMPLY TO PERMIT CONDITIONS.

ACOE: \_\_\_\_\_ PENDING

JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

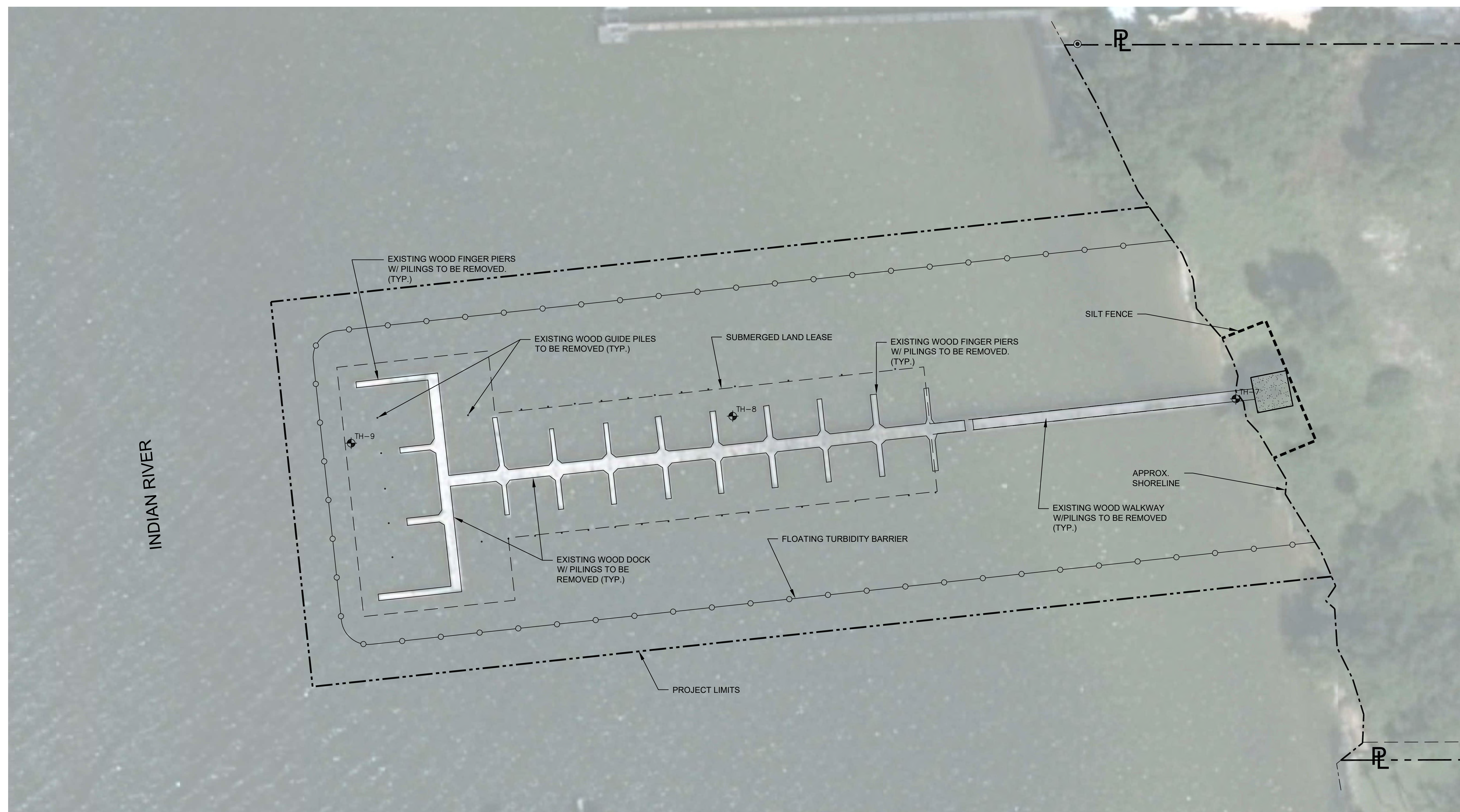
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**CLIENT:**  
PHOENIX PARK FUND V, LP.  
**PROJECT:**  
HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT  
**SHEET TITLE:**  
GENERAL NOTES

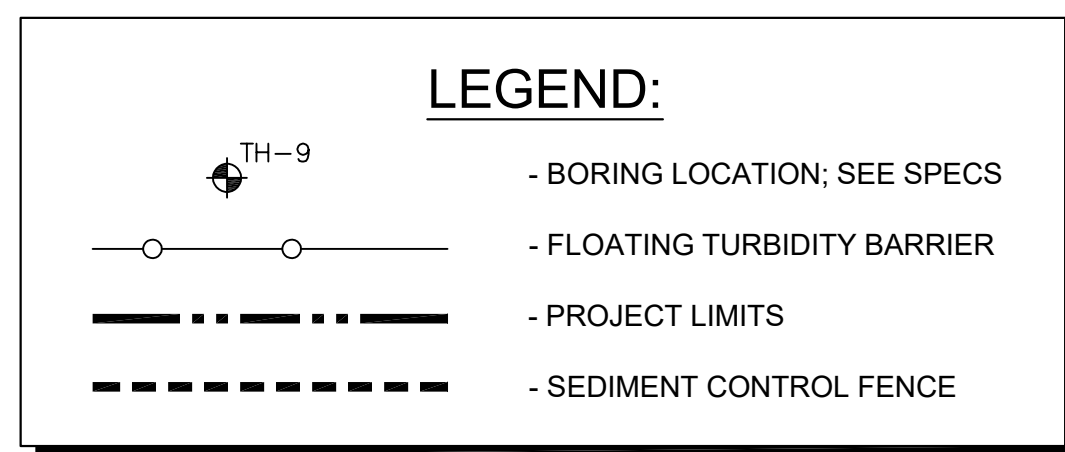
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CORPORATE OFFICE: 6200 W. BOY SCOUT BOULEVARD, TAMPA, FLORIDA 33607  
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00000001  
WWW.ATKINSGLOBAL.COM  
LOCAL OFFICE: 7175 MURRELL ROAD, MELBOURNE, FL 32940  
TEL: 321.342.4842  
FAX: 321.342.8191

JOB NO.:	100056195
PROJECT ENG.:	J.A.L.
DRAWN:	A.D.
CHECKED:	D.M.
APPROVED:	J.A.L.
SHEET NO.:	<b>C-2</b>





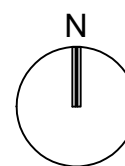
INDIAN RIVER



**SITE DEVELOPMENT DATA:**

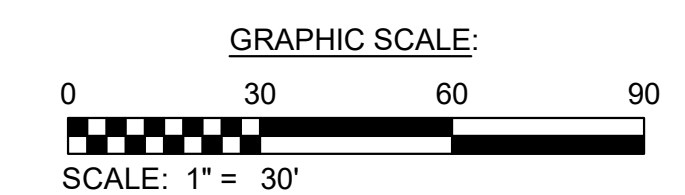
THE SITE IS LOCATED WITHIN SECTIONS 20, TOWNSHIP 28 SOUTH, RANGE 38 EAST OF BREVARD COUNTY, FLORIDA  
TAX ACCOUNT #2849283 ; PARCEL ID: 28-38-20-00-00005.0-0000.00

**DOCK DEMOLITION PLAN**  
SCALE: 1" = 30'



**NOTES:**

- BACKGROUND AERIAL DEPICTS MORE OF THE DOCK IN PLACE THAN WHAT IS ACTUALLY THERE CURRENTLY.
- CONTRACTOR IS TO DEMOLISH THE ENTIRE EXISTING WOODEN BOAT DOCK AND WALKWAY, INCLUDING ALL PILING, DECKING, AND ASSOCIATED APPURTENANCES.
- ALL EXISTING WOOD PILING SHALL BE COMPLETELY REMOVED, THIS INCLUDES DEBRIS THAT IS FOUND ON THE BOTTOM OF THE RIVER, ALONG WITH ANY DEBRIS OR PARTIAL PIECES THAT MAY BE GENERATED DURING REMOVAL.
- ALL DEBRIS SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED UPLAND DISPOSAL FACILITY IN A LEGAL MANNER.
- ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACTOR'S DEMOLITION PLAN, WHICH SHALL BE SUBMITTED TO OWNER'S ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.
- DEMOLITION ACTIVITIES SHALL ENSURE PROTECTION OF FACILITIES. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE PERFORMING WORK AROUND EXISTING UTILITIES TO REMAIN. SUBMIT DEMOLITION PLAN OUTLINING ALL PROTECTIVE MEASURES.



REV	DATE	ISSUED FOR

REV	DATE	ISSUED FOR

JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

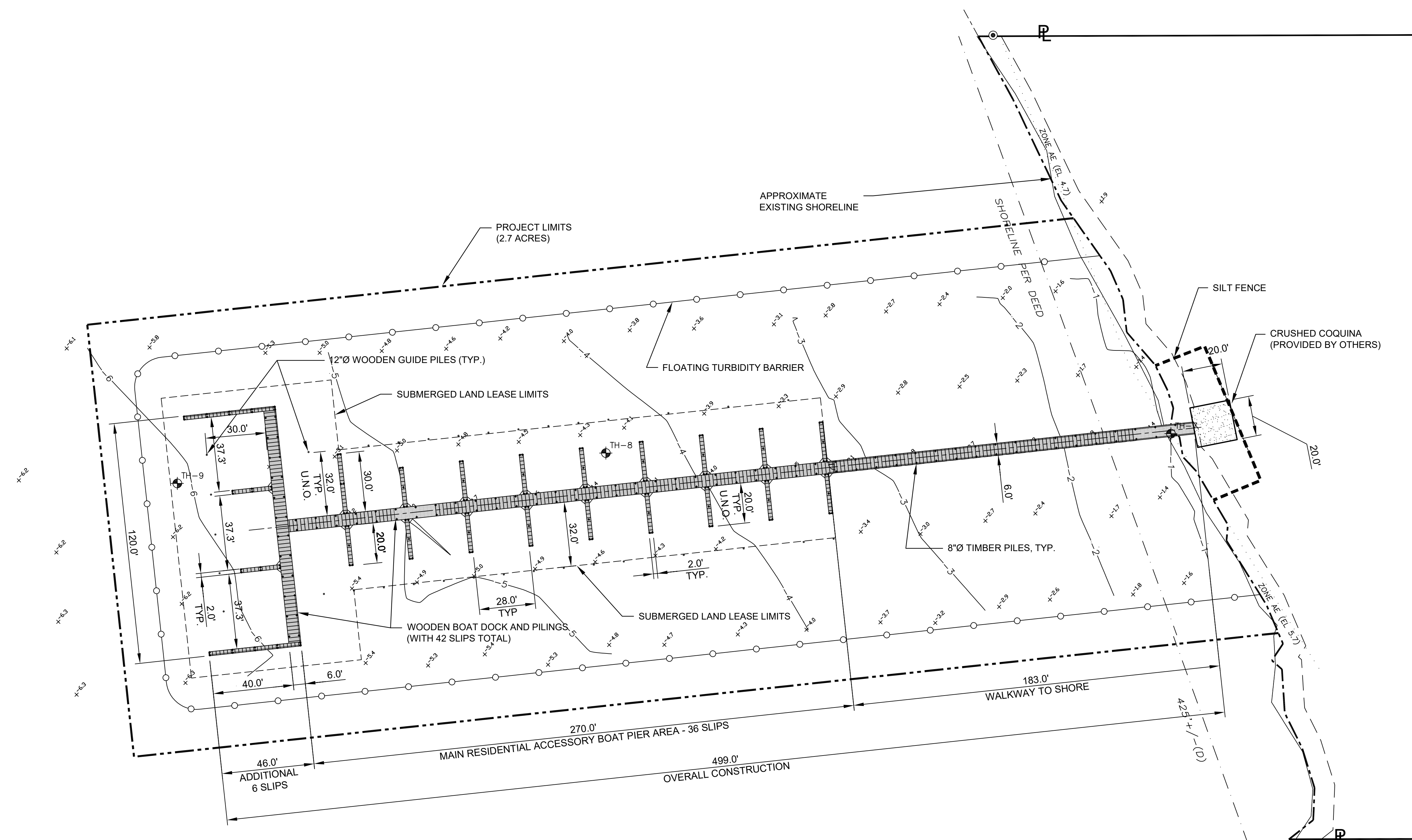
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<b>CLIENT:</b>	<b>PHOENIX PARK FUND V, LP.</b>
<b>PROJECT:</b>	<b>HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT</b>
<b>SHEET TITLE:</b>	<b>DOCK DEMOLITION PLAN</b>

<b>ATKINS</b>	
<small>CORPORATE OFFICE: 5500 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607 FPR CERTIFICATE OF AUTHORIZATION NO. 00000177 www.atkinsglobal.com</small>	<small>LOCAL OFFICE: 1715 MARRELL ROAD MELBOURNE, FL 32959 TEL: 321.242.4642 FAX: 321.242.8101</small>
JOB NO.:	100056195
PROJECT ENG.:	J.A.L.
DRAWN:	A.D.
CHECKED:	D.M.
APPROVED:	J.A.L.
SHEET NO.:	<b>C-3</b>



INDIAN RIVER



**DOCK SITE PLAN**  
SCALE: 1" = 30'

LEGEND:	
	- BORING LOCATION; SEE SPECS
	- FLOATING TURBIDITY BARRIER
	- PROJECT LIMITS
	- SEDIMENT CONTROL FENCE
	- EXISTING CONTOURS
	- EXISTING SPOT ELEVATIONS

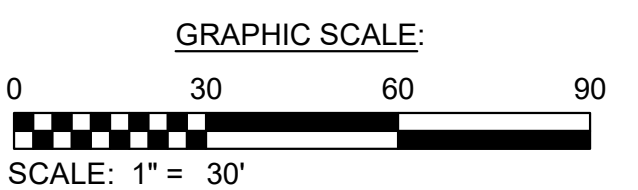
ABBREVIATIONS:	
EX	EXISTING
TYP.	TYPICAL
PL	PROPERTY LINE
CL	CENTERLINE
U.N.O.	UNLESS NOTED OTHERWISE

PILE CHART	
PILE SIZE	NUMBER OF PILES
8" DIAMETER	237
12" DIAMETER	33

NOTES:	
1.	APPROX. 4400 SF. OF DOCK OVER WATER.
2.	BATHYMETRY SHOWN PROVIDED BY BRIEL AND ASSOCIATES, DATED MAY 08, 2018.

**SITE DEVELOPMENT DATA:**

THE SITE IS LOCATED WITHIN SECTIONS 20, TOWNSHIP 28 SOUTH, RANGE 38 EAST OF BREVARD COUNTY, FLORIDA  
TAX ACCOUNT #2849283 ; PARCEL ID: 28-38-20-00-00005.0-0000.00



REV.	DATE	ISSUED FOR

JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

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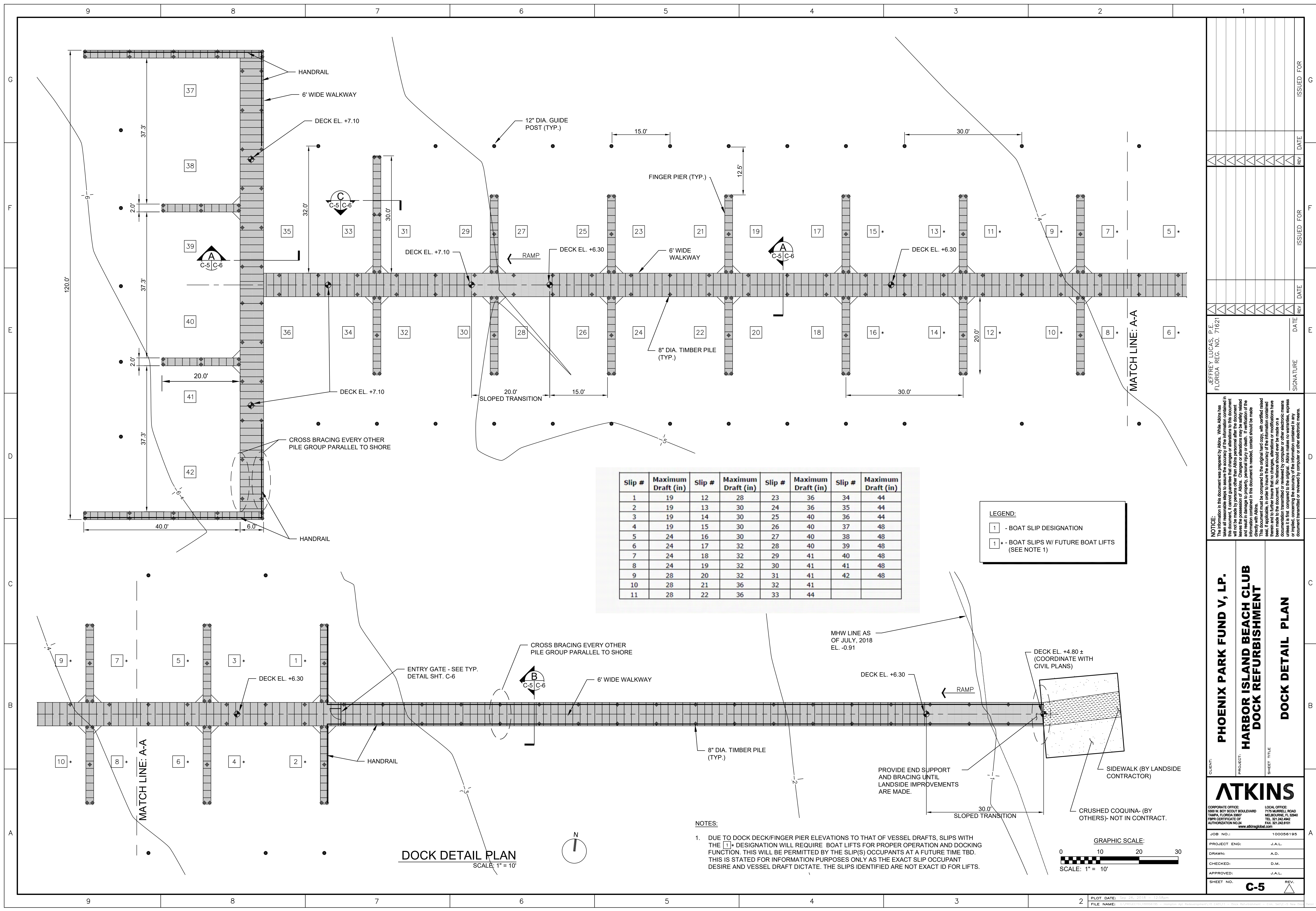
CLIENT:	PHOENIX PARK FUND V, LP.
PROJECT:	HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT
SHEET TITLE:	DOCK SITE PLAN

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JOB NO.:	100056195
PROJECT ENG.:	J.A.L.
DRAWN:	A.D.
CHECKED:	D.M.
APPROVED:	J.A.L.
SHEET NO.:	C-4





Slip #	Maximum Draft (in)	Slip #	Maximum Draft (in)	Slip #	Maximum Draft (in)	Slip #	Maximum Draft (in)
1	19	12	28	23	36	34	44
2	19	13	30	24	36	35	44
3	19	14	30	25	40	36	44
4	19	15	30	26	40	37	48
5	24	16	30	27	40	38	48
6	24	17	32	28	40	39	48
7	24	18	32	29	41	40	48
8	24	19	32	30	41	41	48
9	28	20	32	31	41	42	48
10	28	21	36	32	41		
11	28	22	36	33	44		

**LEGEND:**

1 - BOAT SLIP DESIGNATION

1\* - BOAT SLIPS W/ FUTURE BOAT LIFTS (SEE NOTE 1)

**NOTES:**

1. DUE TO DOCK DECK/FINGER PIER ELEVATIONS TO THAT OF VESSEL DRAFTS, SLIPS WITH THE [1]\* DESIGNATION WILL REQUIRE BOAT LIFTS FOR PROPER OPERATION AND DOCKING FUNCTION. THIS WILL BE PERMITTED BY THE SLIP(S) OCCUPANTS AT A FUTURE TIME TBD. THIS IS STATED FOR INFORMATION PURPOSES ONLY AS THE EXACT SLIP OCCUPANT DESIRE AND VESSEL DRAFT DICTATE. THE SLIPS IDENTIFIED ARE NOT EXACT ID FOR LIFTS.

REV.	DATE	ISSUED FOR

JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

\_\_\_\_\_  
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\_\_\_\_\_  
DATE

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CLIENT: **PHOENIX PARK FUND V, LP.**

PROJECT: **HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT**

SHEET TITLE: **DOCK DETAIL PLAN**

JOB NO.: 100056195

PROJECT ENG: J.A.L.

DRAWN: A.D.

CHECKED: D.M.

APPROVED: J.A.L.

SHEET NO. **C-5**

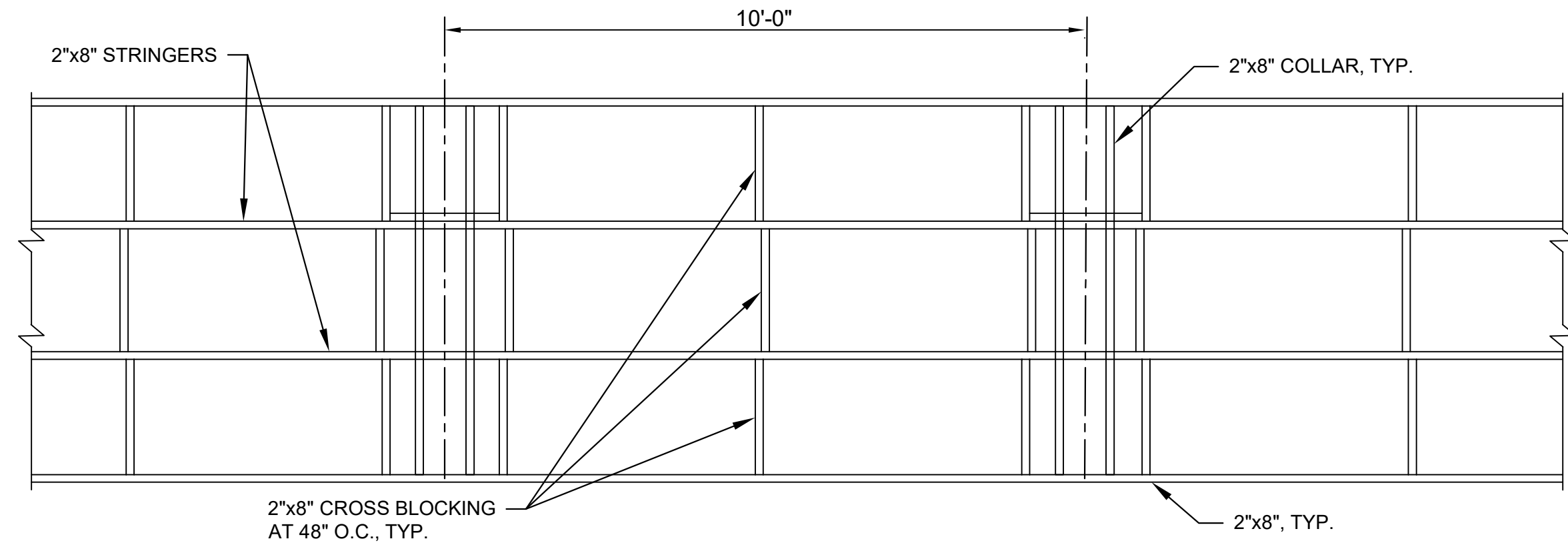
**ATKINS**

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TAMPA, FLORIDA 33607  
TEL: 813.242.4642  
FAX: 813.242.6191  
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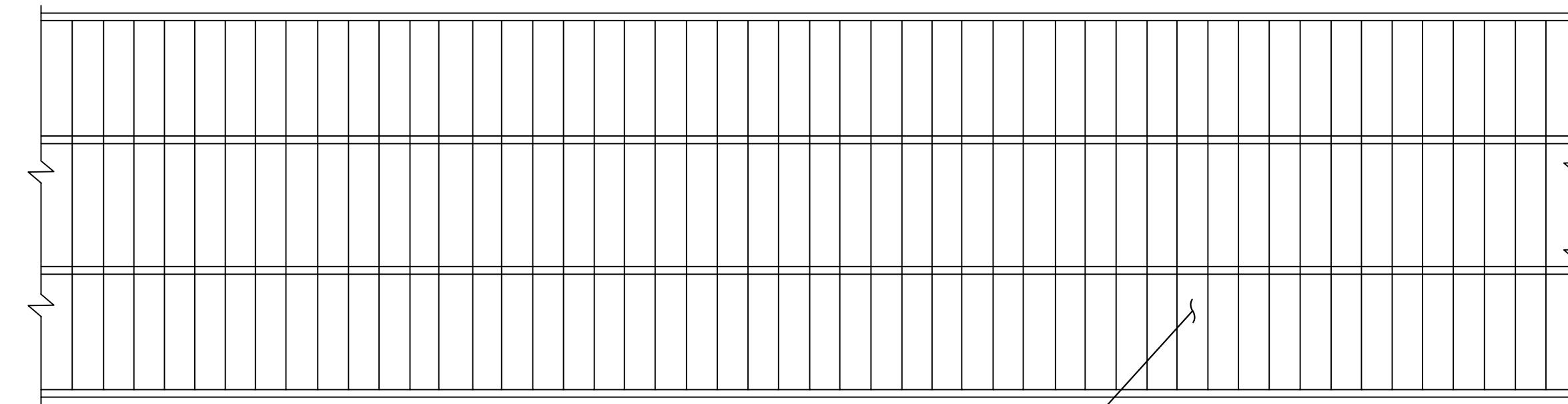
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FAX: 321.242.6191  
www.atkinsglobal.com

GRAPHIC SCALE:  
0 10 20 30  
SCALE: 1" = 10'

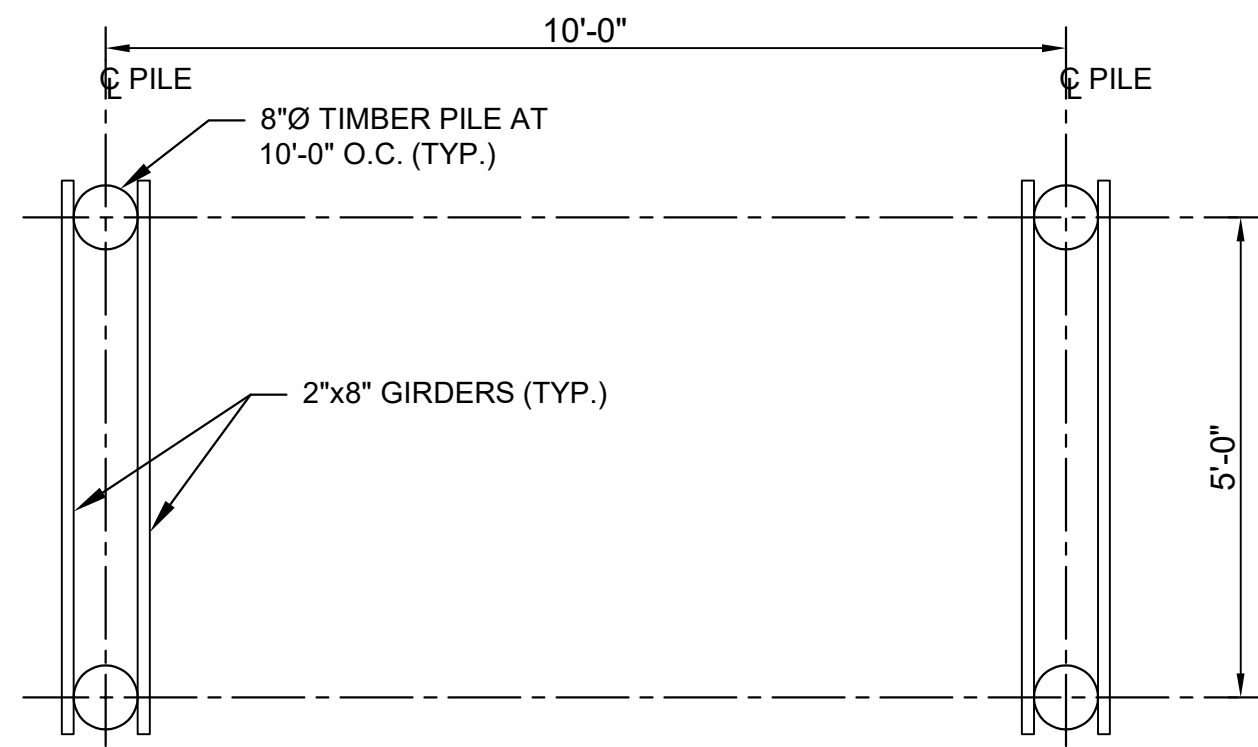
**DOCK DETAIL PLAN**  
SCALE: 1" = 10'



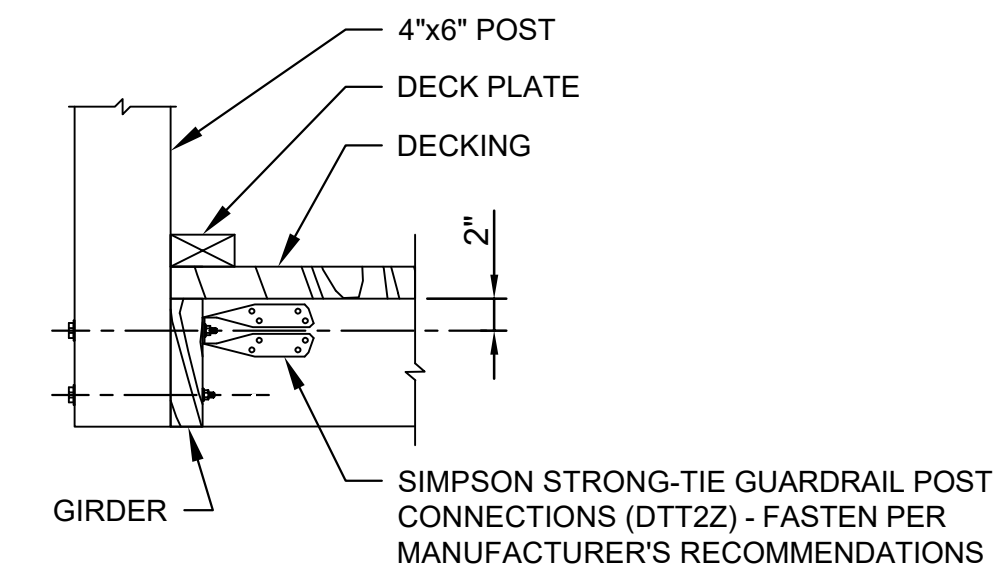
TYPICAL STRINGER AND BLOCKING PLAN  
SCALE: 1/2" = 1'-0"



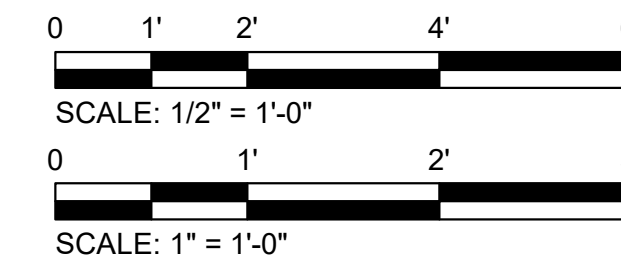
TYPICAL DECKING PLAN  
SCALE: 1/2" = 1'-0"



TYPICAL PILE AND GIRDER PLAN  
SCALE: 1/2" = 1'-0"



TYPICAL HANDRAIL POST CONNECTION DETAIL  
SCALE: 1" = 1'-0"



JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

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PHOENIX PARK FUND V, LP.  
HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT  
DOCK PLANS AND DETAILS

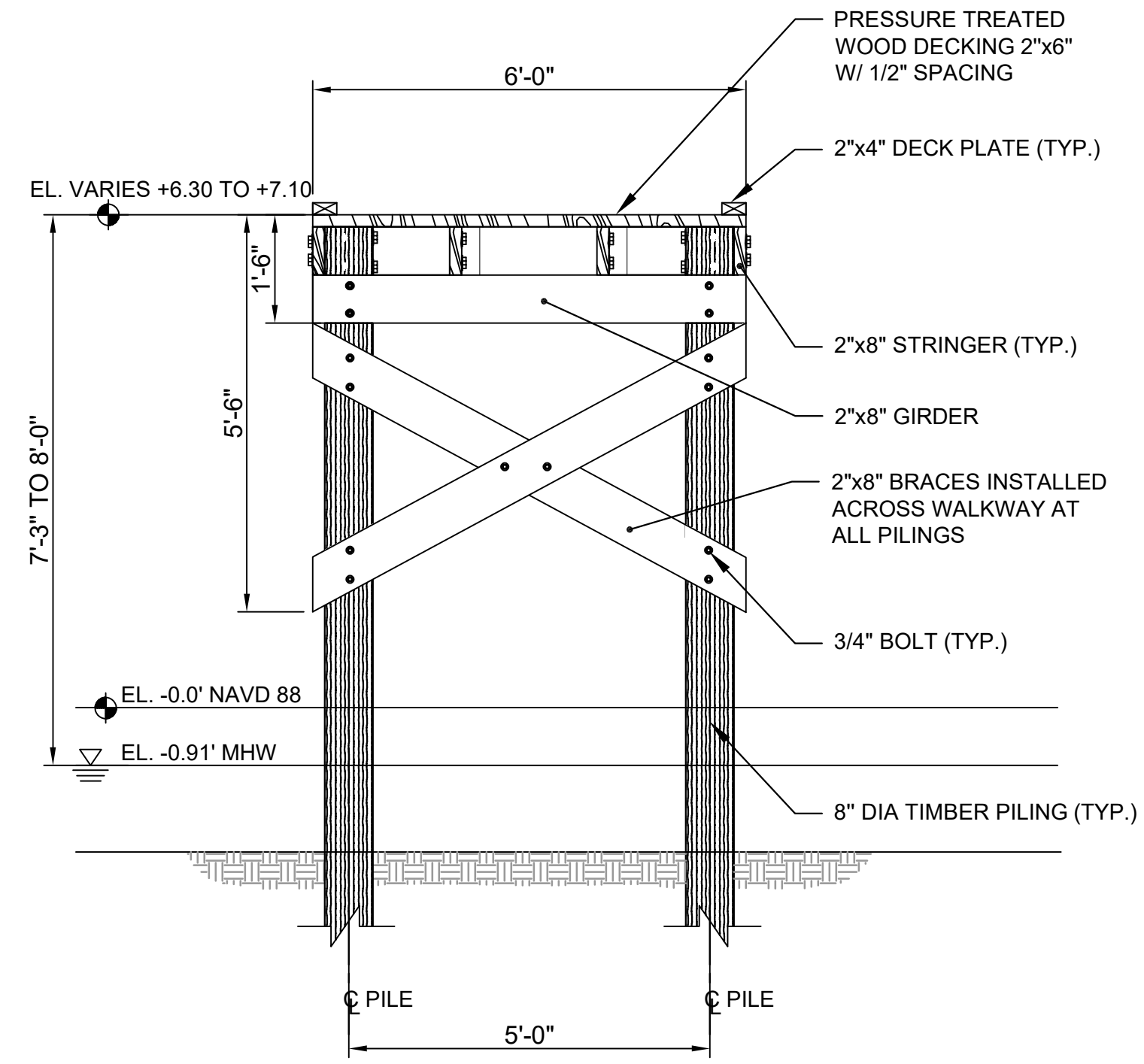
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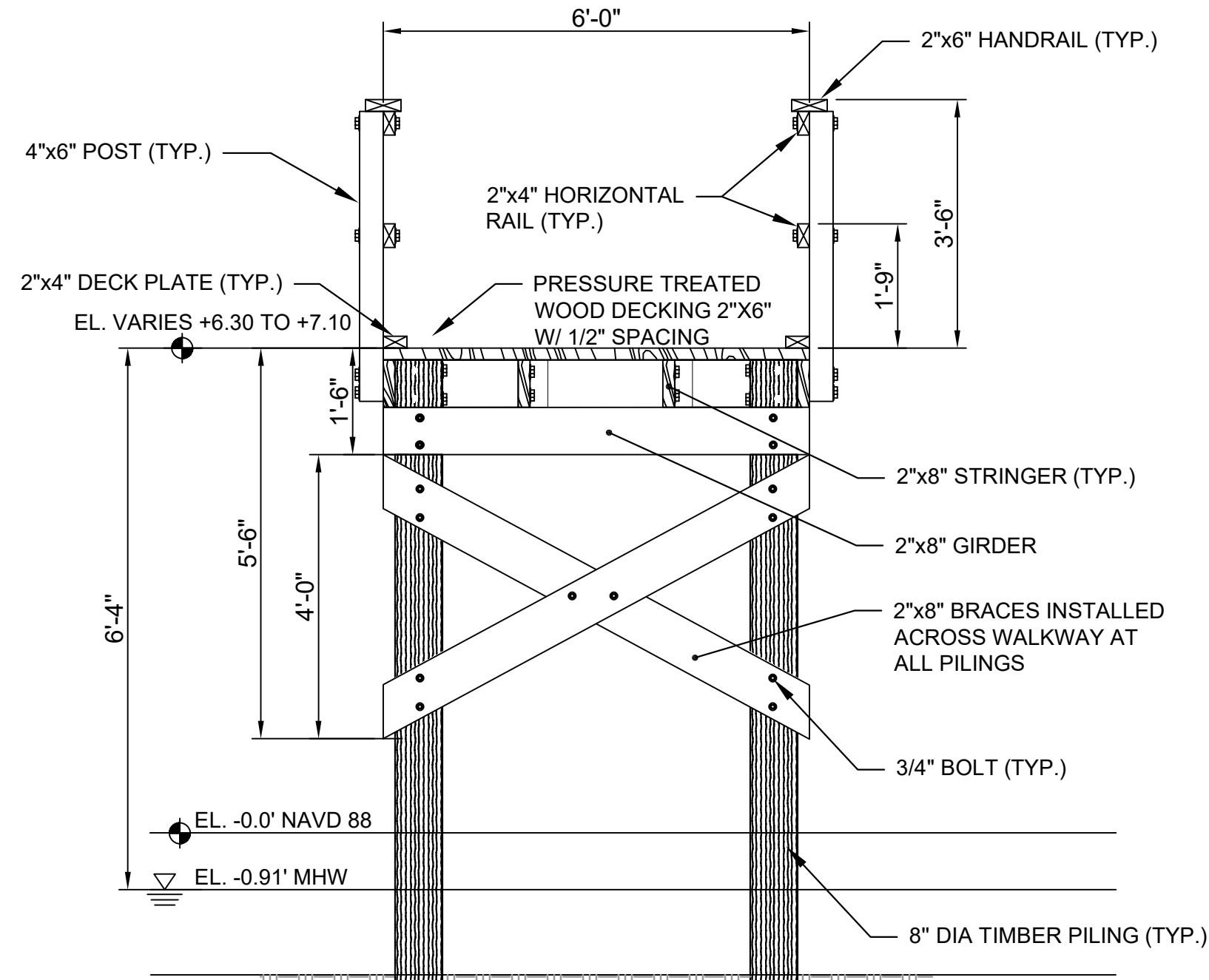
LOCAL OFFICE: 7175 MARRELL ROAD MELBOURNE, FL 32949  
TEL. 321.242.4642  
FAX 321.242.8101

CLIENT:	
PROJECT:	
SHEET TITLE:	
JOB NO.:	100056195
PROJECT ENG.:	J.A.L.
DRAWN:	A.D.
CHECKED:	D.M.
APPROVED:	J.A.L.
SHEET NO.:	<b>C-6</b>

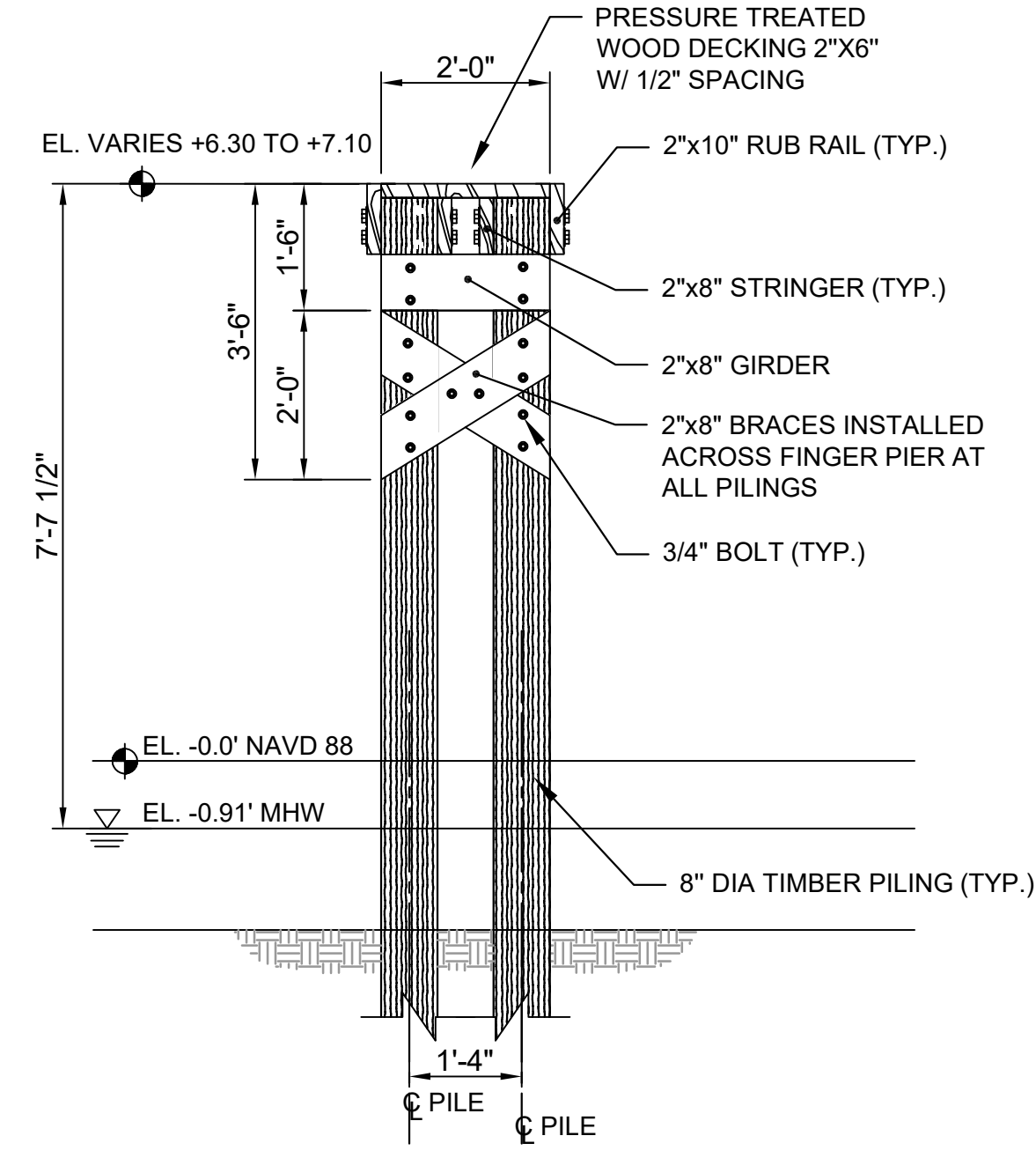




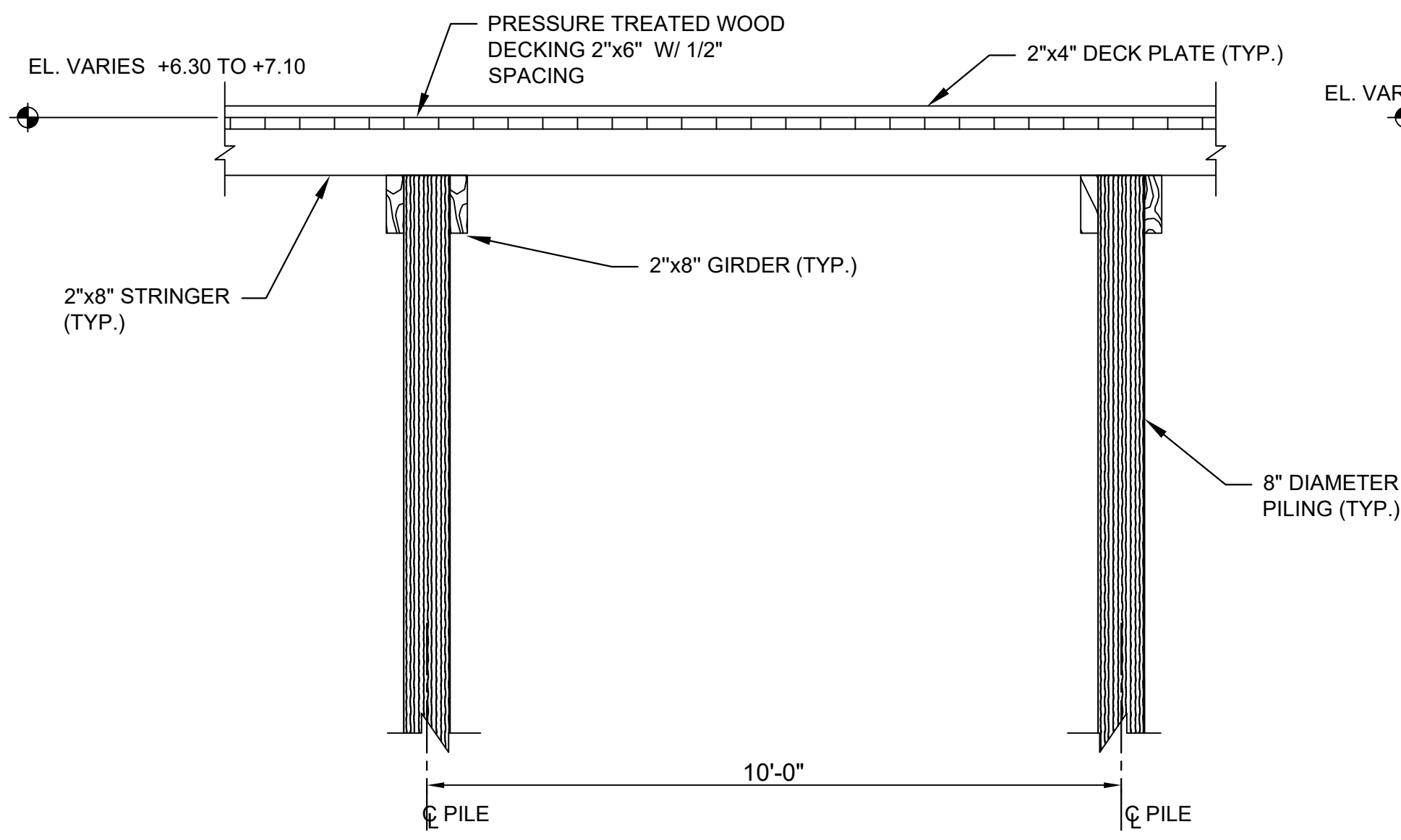
**A WALKWAY SECTION**  
SCALE: 1/2" = 1'-0"



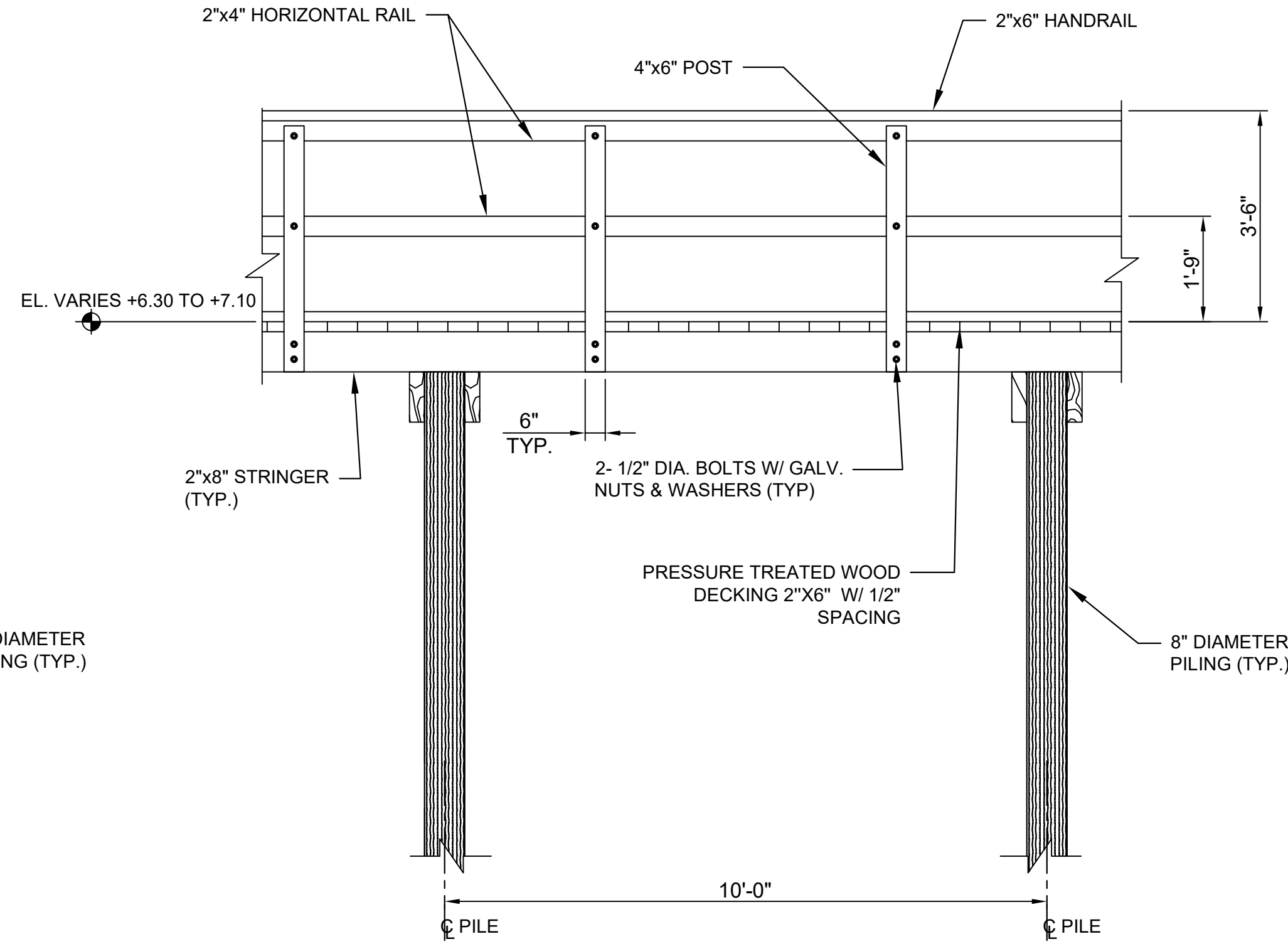
**B WALKWAY SECTION WITH HANDRAIL**  
SCALE: 1/2" = 1'-0"



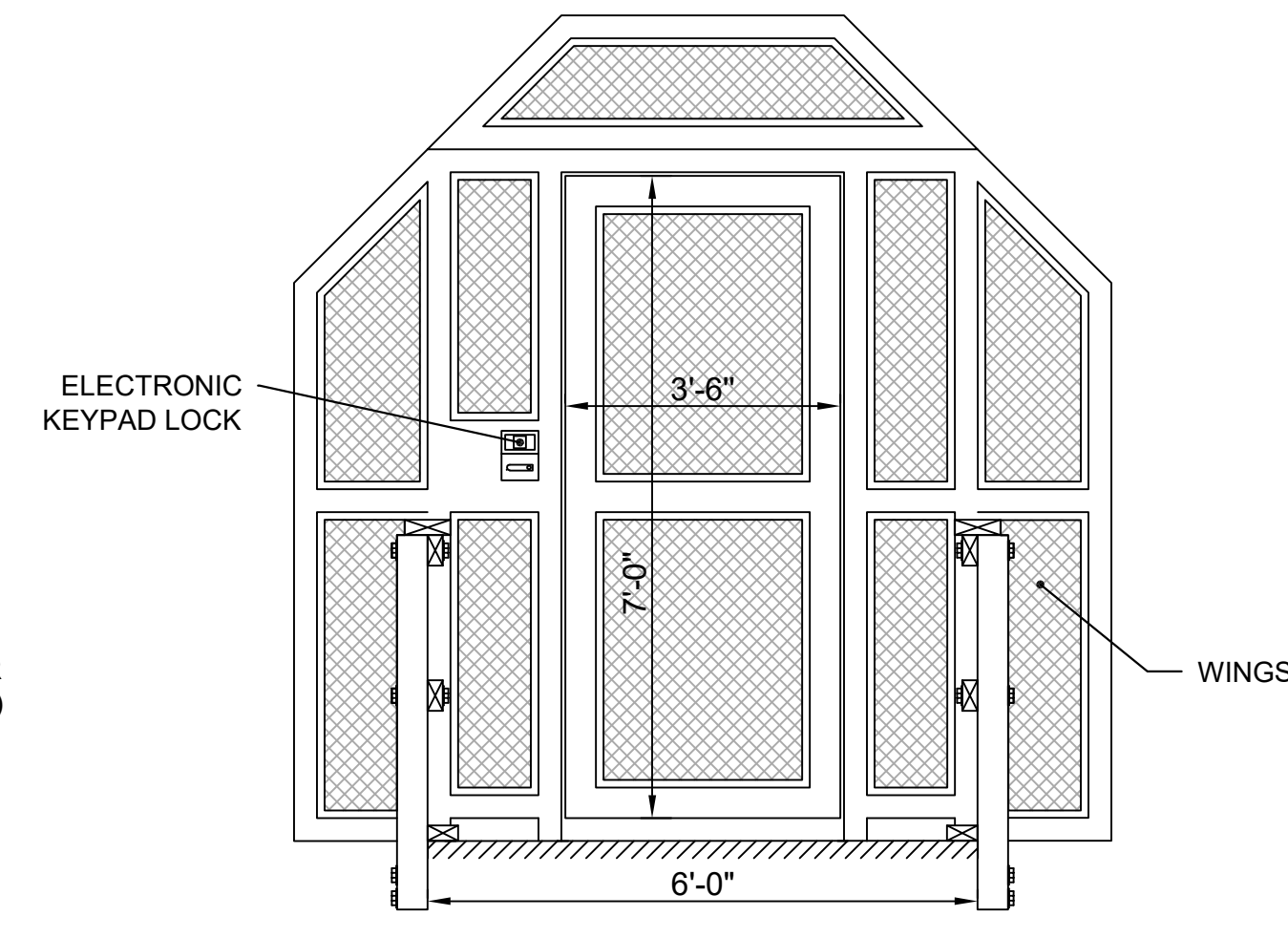
**C FINGER PIER SECTION**  
SCALE: 1/2" = 1'-0"



**D WALKWAY ELEVATION**  
SCALE: 1/2" = 1'-0"



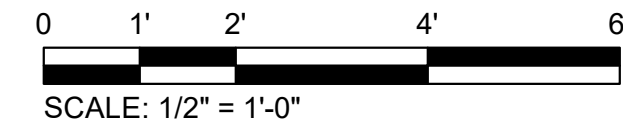
**E WALKWAY ELEVATION WITH HANDRAILS**  
SCALE: 1/2" = 1'-0"



**F TYPICAL SECURITY GATE**  
SCALE: 1/2" = 1'-0"

**NOTE:**  
ALL REPLACEMENT PILINGS WILL BE WRAPPED WITH HIGH DENSITY POLYETHYLENE WRAP.

**NOTE:**  
1. ALL WOOD TO BE PRESSURE TREATED.  
2. SCREEN TO BE 12 MESH BLACK POLY STAINLESS - 0.028 DIAMETER.  
3. CONTRACTOR TO SUBMIT SHOP DRAWING FOR GATE ASSEMBLY AND DOOR HARDWARE FOR APPROVAL.  
4. SUPPLY ELECTRONIC KEYPAD LOCK.  
5. ALTERNATE GATE VARIETY MAY BE PROPOSED BY THE CONTRACTOR AS APPROVED BY THE OWNER.



REV.	DATE	ISSUED FOR

JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

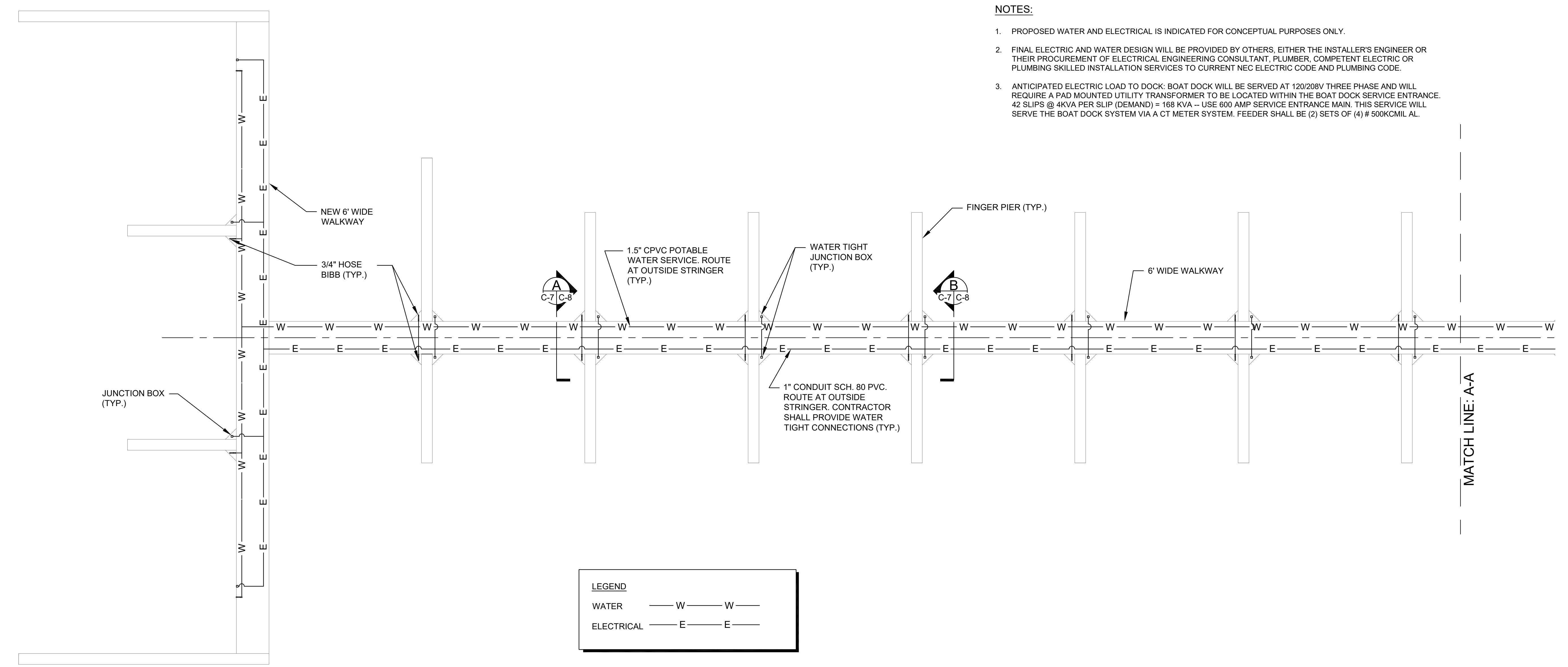
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**CLIENT:** PHOENIX PARK FUND V, LP.  
**PROJECT:** HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT  
**SHEET TITLE:** SECTIONS AND DETAILS

**ATKINS**  
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LOCAL OFFICE: 7175 MARRELL ROAD MELBOURNE, FL 32949  
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JOB NO.: 100056195  
PROJECT ENG.: J.A.L.  
DRAWN: A.D.  
CHECKED: D.M.  
APPROVED: J.A.L.  
SHEET NO.: **C-7**

9 8 7 6 5 4 3 2 1

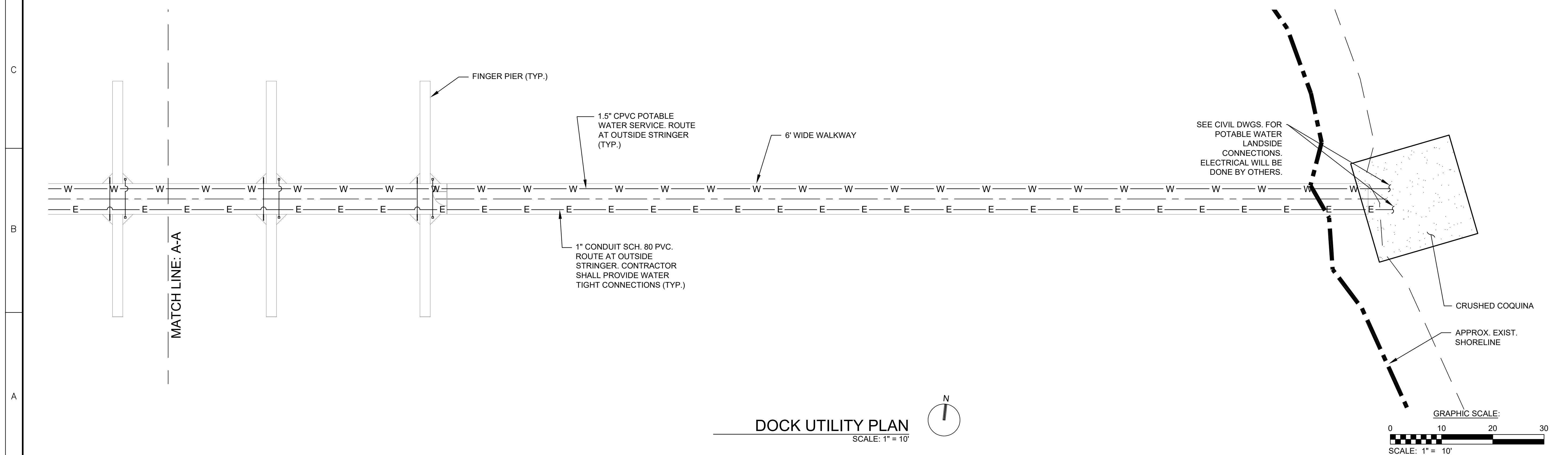


- NOTES:**
1. PROPOSED WATER AND ELECTRICAL IS INDICATED FOR CONCEPTUAL PURPOSES ONLY.
  2. FINAL ELECTRIC AND WATER DESIGN WILL BE PROVIDED BY OTHERS, EITHER THE INSTALLER'S ENGINEER OR THEIR PROCUREMENT OF ELECTRICAL ENGINEERING CONSULTANT, PLUMBER, COMPETENT ELECTRIC OR PLUMBING SKILLED INSTALLATION SERVICES TO CURRENT NEC ELECTRIC CODE AND PLUMBING CODE.
  3. ANTICIPATED ELECTRIC LOAD TO DOCK: BOAT DOCK WILL BE SERVED AT 120/208V THREE PHASE AND WILL REQUIRE A PAD MOUNTED UTILITY TRANSFORMER TO BE LOCATED WITHIN THE BOAT DOCK SERVICE ENTRANCE. 42 SLIPS @ 4KVA PER SLIP (DEMAND) = 168 KVA - USE 600 AMP SERVICE ENTRANCE MAIN. THIS SERVICE WILL SERVE THE BOAT DOCK SYSTEM VIA A CT METER SYSTEM. FEEDER SHALL BE (2) SETS OF (4) # 500KCMIL AL.

**LEGEND**

WATER — W — W —

ELECTRICAL — E — E —



**DOCK UTILITY PLAN**  
SCALE: 1" = 10'

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									DATE	
									ISSUED FOR	
									DATE	
									SIGNATURE	
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<p><b>PHOENIX PARK FUND V, LP.</b>  <b>HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT</b>  <b>DOCK UTILITY PLAN</b></p>										
<p><b>ATKINS</b>  CORPORATE OFFICE: 5500 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607  LOCAL OFFICE: 7175 MARRELL ROAD MELBOURNE, FL 32949  JOB NO.: 100056195  PROJECT ENG: J.A.L.  DRAWN: A.D.  CHECKED: D.M.  APPROVED: J.A.L.  SHEET NO. <b>C-8</b></p>										



# UTILITY NOTES:

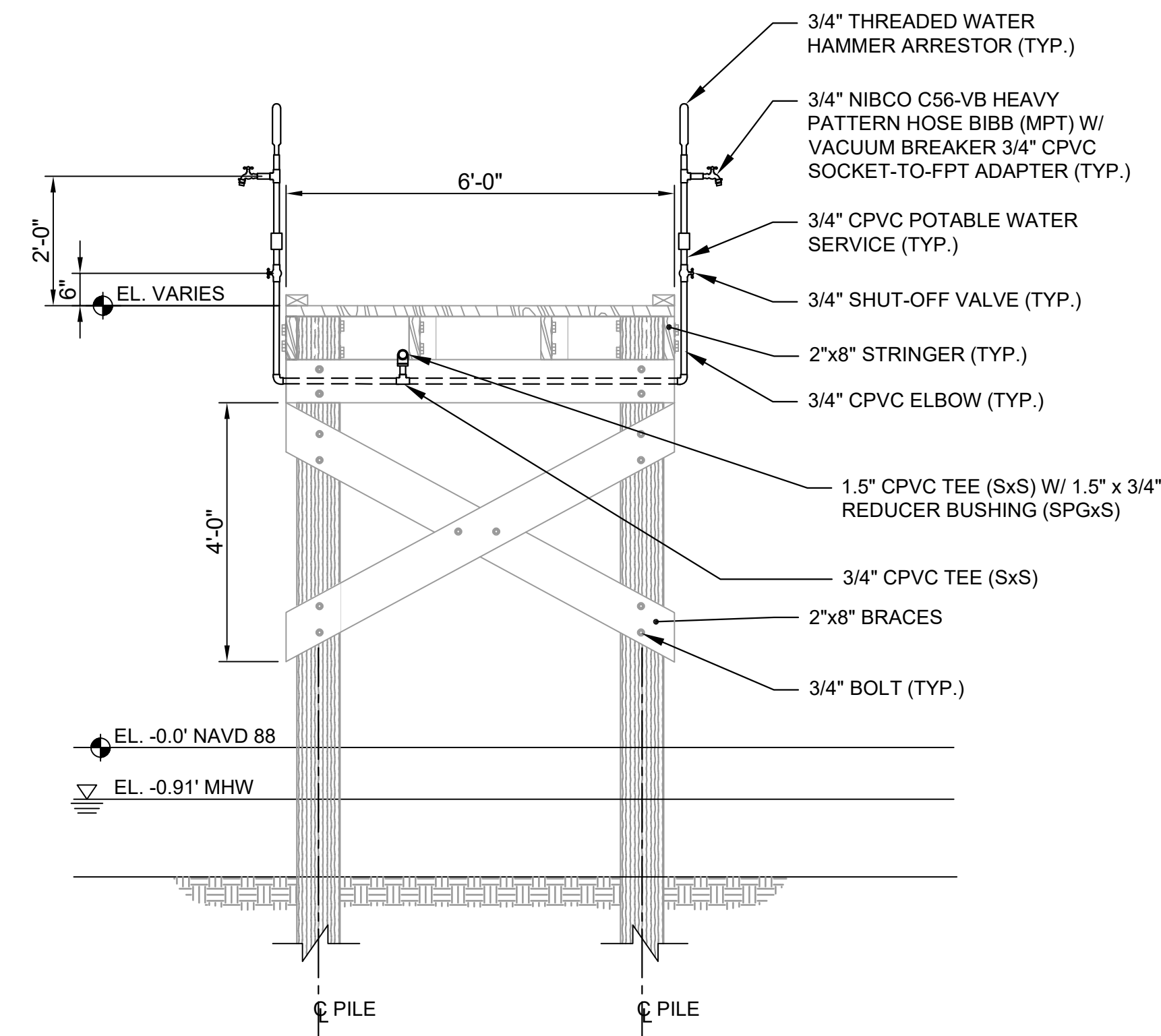
IN GENERAL, PLUMBING AND ELECTRICAL PLANS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. CONTRACTOR SHALL COORDINATE AT SITE ALL PLUMBING AND ELECTRICAL WORK SO AS NOT TO CONFLICT IN LOCATION WITH OTHER WORKS UNDER THE CONTRACT.

## PLUMBING

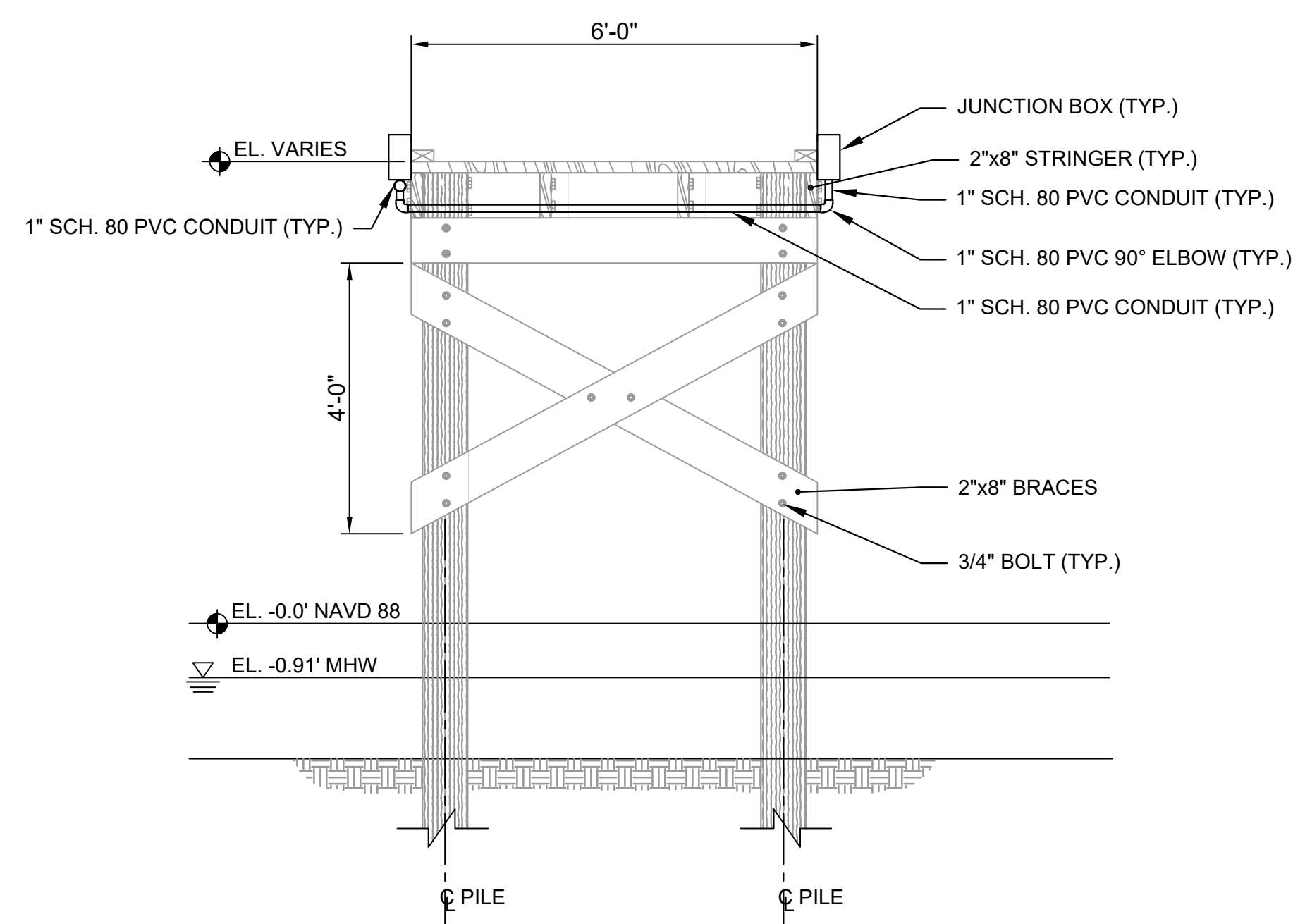
- COORDINATE ALL PIPING ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. ROUTE ALL PIPING TO AVOID ELECTRICAL RACEWAYS AND STRUCTURE. NO PENETRATION THROUGH STRUCTURAL MEMBERS ARE ALLOWED FOR PLUMBING INSTALLATION WITHOUT WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE FIXTURES AND FAUCETS AS SCHEDULED OR SPECIFIED USING THE MANUFACTURER'S AND MODEL NUMBERS AS CALLED FOR IN THE CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBSTITUTION OF SUBSTITUTE MATERIALS/FIXTURES/FAUCETS, ETC.
- PIPING ROUTING IS SCHEMATIC AND INTENDED TO INDICATE GENERAL ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
- ALL PLUMBING INSTALLATION AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND APPLICABLE STANDARDS, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- ROUGH-IN ALL SUPPLIES IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- SUBMIT SHOP DRAWINGS INCLUDING PIPE ROUTING AND EQUIPMENT LOCATION TO THE ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING EQUIPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF HIS STORED MATERIALS AND EQUIPMENT FOR THE DURATION OF THE PROJECT. PROVIDE PROTECTION COVER OVER EQUIPMENT TO ENSURE AGAINST WATER AND DUST DAMAGE AND PROVIDE SUITABLE PALLETS BETWEEN EQUIPMENT AND MATERIALS STORED ON GROUND.
- ALL HARDWARE AND APPURTENANCES SHALL BE STAINLESS STEEL.
- ALL PIPE SHALL BE CPVC.

## ELECTRICAL

- THE WORK PRACTICES EMPLOYED ON THIS PROJECT SHALL AT ALL TIMES COMPLY WITH OR EXCEED THE LATEST ADOPTED EDITION OF THE NEC (NATIONAL ELECTRIC CODE). CONTRACTOR SHALL PROVIDE OR OBTAIN ALL REQUIRED LABOR, MATERIAL, EQUIPMENT, INSURANCE, TOOLS, PERMITS, INSPECTIONS, ETC. TO PERFORM THE PROJECT ELECTRICAL WORK AS PER NEC, LOCAL AGENCIES AND OWNER REQUIREMENTS.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND POWER FEEDS OF EQUIPMENT WITH OWNER'S REPRESENTATIVE (REVISE BRANCH CIRCUITS AS REQUIRED).
- THE CONTRACTOR SHALL PROVIDE OUTLET AND JUNCTION BOXES PER NEC REQUIREMENT ACCORDING TO THEIR LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO PERFORM THE ELECTRICAL WORK. OWNER SHALL BE NOTIFIED BEFORE STARTING ANY CUTTING AND PATCHING, AND WORK SHALL BE DONE IN SUCH A MANNER THAT WILL NOT AFFECT THE ADJACENT LAND AREA OR DOCK STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF CUTTING AND PATCHING AND SHALL PROVIDE A CODE COMPLIANT SOLUTION TO RESTORE THE AFFECTED SYSTEMS AT NO EXTRA CHARGE.
- THE CONTRACTOR SHALL FOLLOW OWNER, NATIONAL AND LOCAL AGENCIES, ETC. SAFETY REGULATIONS PROCEDURES. CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT AND WORKING AREA PROTECTION TO PREVENT INJURIES TO PEOPLE AND DAMAGE TO PROPERTY.
- THE CONTRACTOR SHALL FULLY TEST ALL ELECTRICAL SYSTEMS UPON COMPLETION OF WORK.
- IT IS THE BIDDER'S RESPONSIBILITY TO INSPECT THE PROJECT SITE AND CONSTRUCTION DOCUMENTS PRIOR TO BIDDING. FAILURE TO DO SHALL NOT RELIEVE THE CONTRACTOR TO COMPLY AND PERFORM HIS/HER WORK RESPONSIBILITIES UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL LABEL EACH SWITCH, RECEPTACLE, PANEL, AND JUNCTION BOXES WITH SOURCE PANEL AND CIRCUIT NUMBER.
- THE CONTRACTOR SHALL VERIFY PHASE ROTATION ON ALL THREE-PHASE EQUIPMENT (DISCONNECTS, RECEPTACLES, ETC).
- ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.
- NO SPLICES SHALL BE PERMITTED ON ELECTRICAL WIRING HOME RUNS FROM PANEL.



**A** TYPICAL WATER SUPPLY SECTION  
SCALE: 1/2" = 1'-0"



**B** TYPICAL ELECTRICAL SUPPLY SECTION  
SCALE: 1/2" = 1'-0"

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JEFFREY LUCAS, P.E.  
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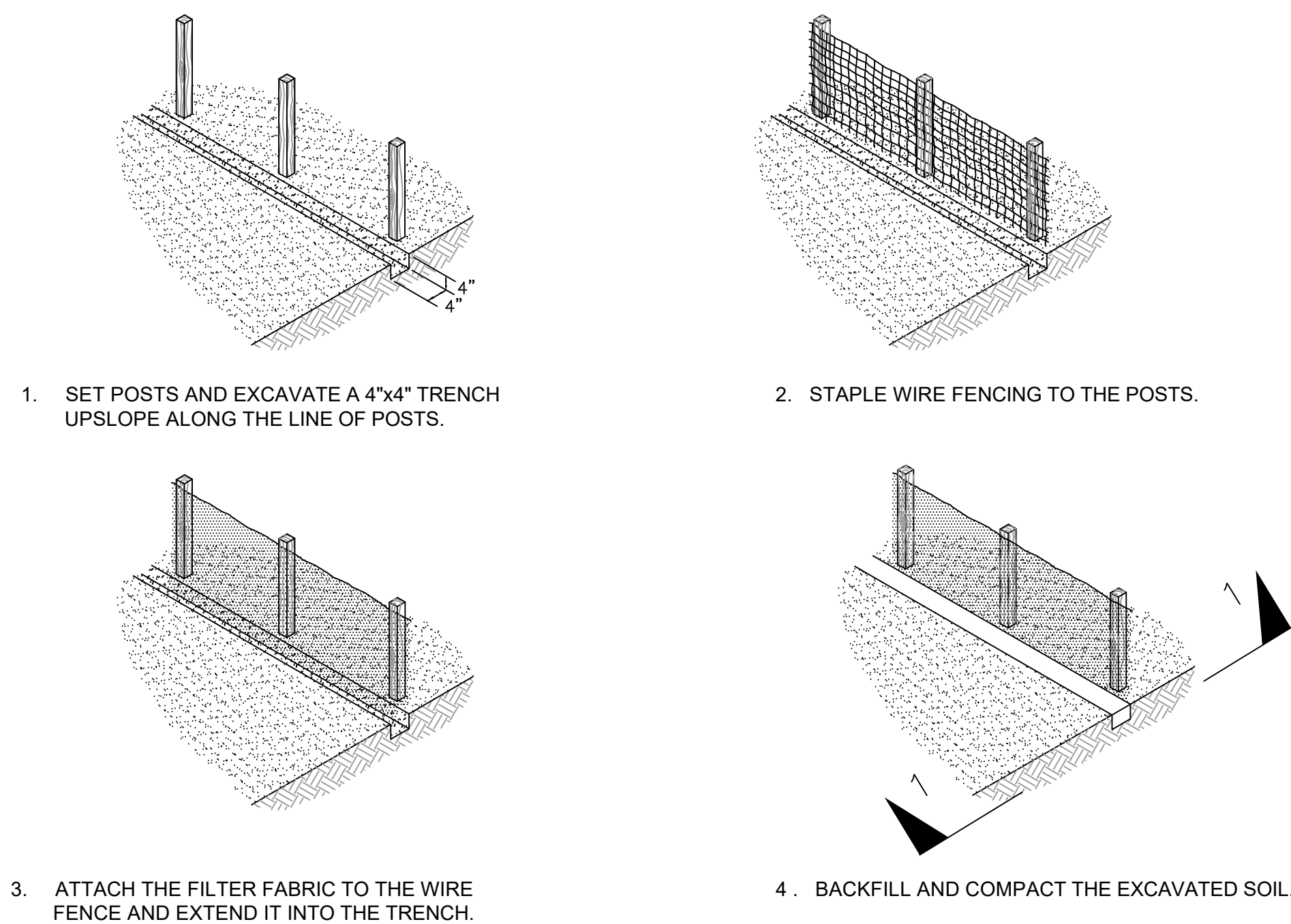
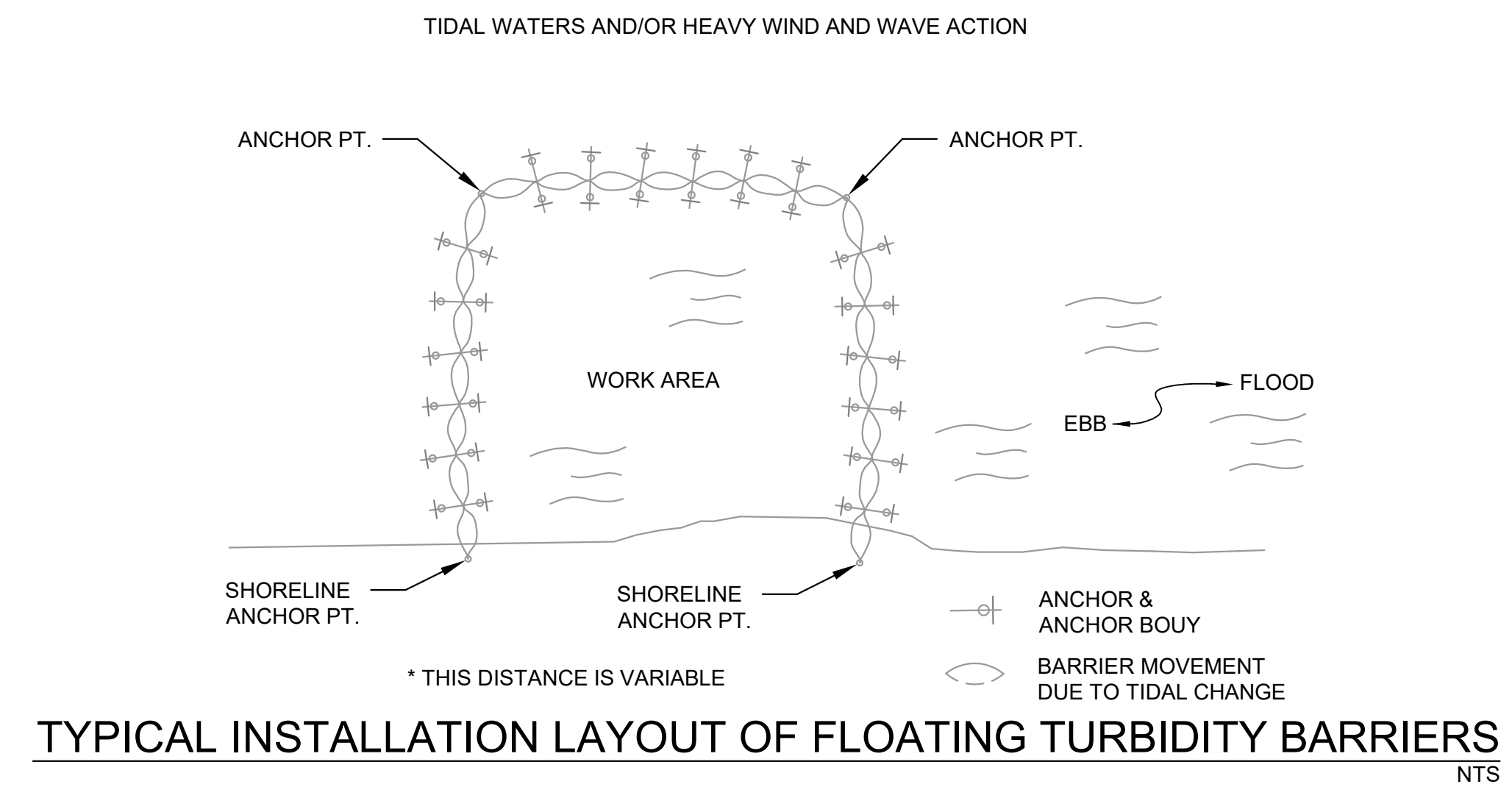
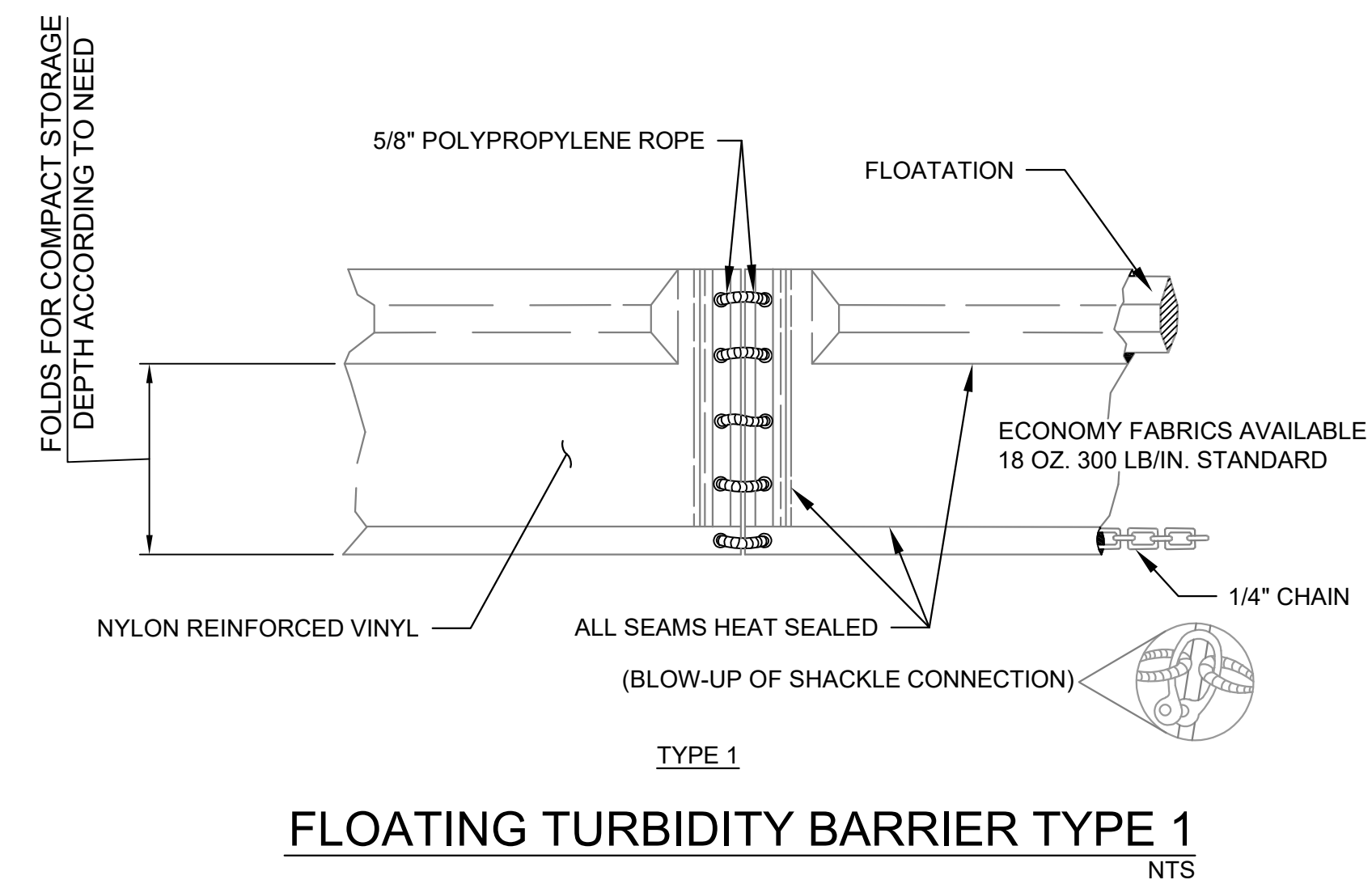
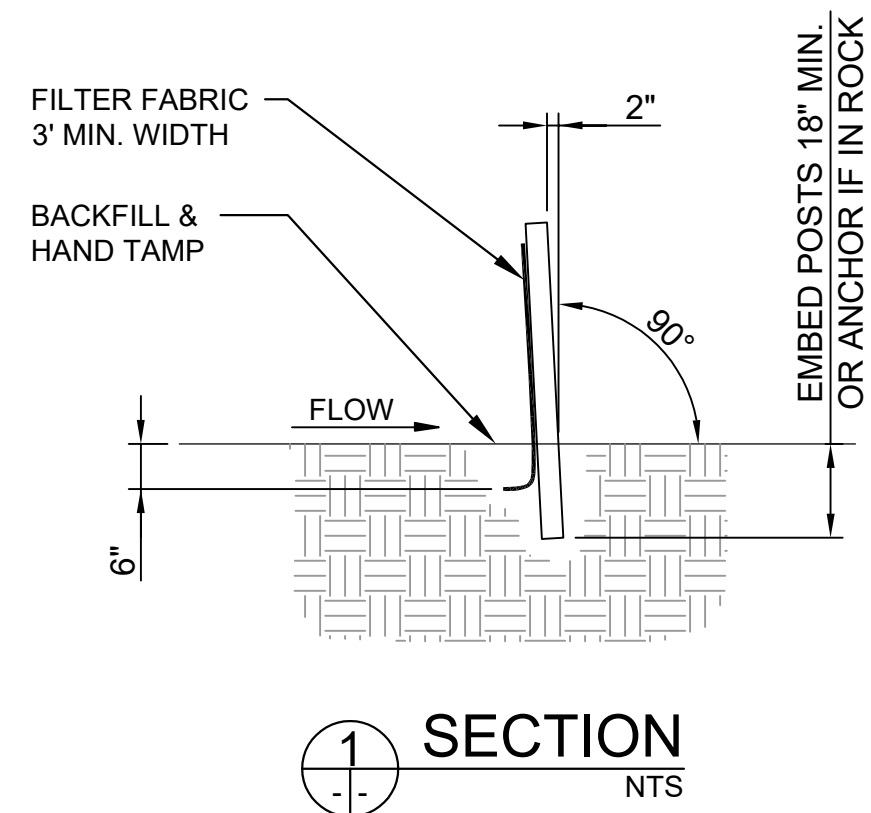
CLIENT:  
**PHOENIX PARK FUND V, LP.**

PROJECT:  
**HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT**

SHEET TITLE:  
**UTILITY SECTIONS AND NOTES**

<b>ATKINS</b>	
<small>CORPORATE OFFICE: 3300 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607 FBNR CERTIFICATE OF AUTHORIZATION NO. 0001900001 www.atkinsglobal.com</small>	<small>LOCAL OFFICE: 7175 MARRELL ROAD MELBOURNE, FL 32949 TEL 321.242.4642 FAX 321.242.4101</small>
JOB NO.:	100056195
PROJECT ENG.:	J.A.L.
DRAWN:	A.D.
CHECKED:	D.M.
APPROVED:	J.A.L.
SHEET NO.	<b>C-9</b>





TEMPORARY SEDIMENT CONTROL FENCE & SILT BARRIER FENCE  
NTS

**SPECIAL SPECIFICATION**  
**5613**  
**Floating Turbidity Barrier**

- Description.** This Item shall govern for the furnishing of all labor, equipment and materials for the complete supply, installation, maintenance, and removal of floating turbidity barrier (FTB) at the locations as shown on the construction pollution mitigation plans, or as directed by the Engineer. The FTB shall be manufactured in accordance with the following specification and the Floating Turbidity Barrier details in the project plans. The barrier and installation shall be sufficient for a tidal flow condition where the velocity of flow may reach 5 feet per second (or a current of approximately 3 knots).
- Materials.** The floating turbidity barrier supplied shall be a standard manufactured product. All materials shall be corrosion resistant. Materials at the water surface shall not degenerate when exposed to sunlight, oils, and petroleum products. The manufacturer shall supply a certification that the product supplied meets the requirements of this specification.

The floating turbidity barrier consists of a PVC coated nylon section and a geosynthetic barrier/curtain section, load line, mooring lines, adjustment lines and tie-downs, floatation, ballast, anchors, mooring buoys, and lighted buoy.

- Turbidity Barrier/Curtain.** The Turbidity Barrier/curtain geosynthetics shall have the following properties:
  - The top section shall consist of an 18-22 oz. per square yard PVC coated nylon fabric. It shall be a bright yellow or orange color to be easily seen.
  - The curtain material shall consist of a tightly woven monofilament yarn filter fabric as specified below:

Property	ASTM Test Method	Value
Weight	ASTM D-4632	6.2 oz/sq. yd
Tensile Strength	ASTM D-4632	390 x 280 lbs
Trapezoidal Tear Strength	ASTM D-4533	100 x 60 lbs
Burst Strength	ASTM D-3786	530 psi
Puncture Strength	ASTM D-3787	140 lbs
Elongation	ASTM D-4632	25 %
UV Resistance	ASTM D-4355	90 % Retained
E.O.S	*CW-02215	70 US Standard Sieve

- Be a woven material such that the equivalent opening size, E.O.S., cannot be enlarged under pressure or by being snagged.
- Floatation.** Turbidity barrier/curtain floatation material shall be a closed cell solid foam material which has sufficient buoyancy to provide the curtain with continuous support, and a minimum of 6 inches freeboard. The sections of floatation shall be installed such that they can not move along inside the sleeve and the space between sections shall not be more than twice the thickness of the floatation material.
  - Load Lines.** Load lines shall be minimum 5/16 in. vinyl coated galvanized aircraft cable with 9800 lb. breaking strength. The load line shall have galvanized connectors with tool free disconnect.
  - Mooring Lines.** Adjustment lines shall be minimum 1/2 in. nylon rope.
  - Adjustment Lines and Tie Downs.** Adjustment lines and tie down lines shall be minimum 1/2 in. nylon rope.
  - Ballast.** Ballast shall be minimum 5/16 in. galvanized steel chain.
  - Anchors.** Turbidity barrier/curtain anchors shall have a sufficient mass and spaced to secure the barrier as recommended by the manufacturer depending on the current velocities.
  - Mooring Buoys.** Mooring buoys shall have provisions for the mooring line to be securely attached and be sufficiently buoyant to remain afloat under normal load conditions.
  - Lighted Buoy.** Lighted Buoys shall be manufactured self contained buoys with automatic flashing lights (on at dusk, off at dawn) installed at 100 ft. on center along the outer navigable channel.
- Construction.** Construction methods, workmanship, equipment and materials used shall conform to the various items of the standard specifications which govern the items of work to be performed under this contract and as specified on the plans. Place the barrier prior to commencement of any work that could impact the area of concern. Ensure that the type of barrier used and the deployment and maintenance of the barrier will minimize dispersion of turbid water from the excavation and dredging area.
 

Operate the turbidity barrier in such a manner to avoid or minimize the degradation of the water quality of surrounding waters.

The barrier shall have sufficient ballast to anchor the barrier along the channel bottom.

The Contractor will immediately repair or replace defective or damaged portions of the turbidity curtain. The turbidity curtain will remain in place until such time that water contained within is free from turbidity. The curtain shall be removed within 72 hours after this determination has been made.

JEFFREY LUCAS, P.E.  
FLORIDA REG. NO. 71621

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**PHOENIX PARK FUND V, LP.**  
**HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT**  
**EROSION AND SEDIMENT CONTROL DETAILS**

**ATKINS**  
CORPORATE OFFICE: 5500 W. BOY SCOUT BOULEVARD TAMPA, FLORIDA 33607  
LOCAL OFFICE: 7175 MURRELL ROAD MELBOURNE, FL 32949  
FIRM CERTIFICATE OF AUTHORIZATION NO. 12-0000000000  
JOB NO.: 100056195  
PROJECT ENG: J.A.L.  
DRAWN: A.D.  
CHECKED: D.M.  
APPROVED: J.A.L.  
SHEET NO. **C-10** REV.



# EROSION AND SEDIMENT CONTROL AND WATER QUALITY POLLUTION PREVENTION PLAN

DISTRICT'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS	CONTRACTOR'S REQUIREMENTS																									
<p><b>1. SITE DESCRIPTION</b></p> <p><b>PROJECT NAME AND LOCATION:</b> HARBOR ISLAND BEACH CLUB - DOCK REFURBISHMENT 100 VERSAILLES DR MELBOURNE BEACH, FL 32951</p> <p><b>OWNER NAME AND ADDRESS:</b> PHOENIX PARK FUND V, LP 119 SIGNATURE DR MELBOURNE BEACH, FL 32951</p> <p><b>A. DESCRIPTION:</b> SEE COVER</p> <p><b>B. SOIL DISTURBING ACTIVITIES</b> FILL DECK REMOVAL AND REPLACEMENT</p> <p><b>C. SITE AREA:</b> 1. TOTAL AREA OF SITE = 2.7 ACRES 2. TOTAL AREA TO BE DISTURBED = +/- 2.0 ACRES</p> <p><b>D. RUNOFF COEFFICIENTS:</b> 1. PRE-CONSTRUCTION = NA 2. DURING CONSTRUCTION = NA 3. POST-CONSTRUCTION = NA</p> <p><b>SOILS:</b> CHANNEL BOTTOM</p> <p><b>E. SITE MAPS:</b> *SEE COVER</p> <p>*SEE ATTACHED PLAN SHEETS FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS</p> <p>*SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p><b>F. NAME OF RECEIVING WATERS:</b> INDIAN RIVER</p> <p><b>2. CONTROLS</b></p> <p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUNOFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AND SHALL BE CONSISTENT WITH THE PERFORMANCE STANDARD FOR EROSION AND SEDIMENT CONTROL AND STORM WATER TREATMENT AS SET FORTH IN RULE 62-40.432 F.A.C., THE APPLICABLE STORM WATER OR ERP REQUIREMENTS OF DEP OR APPROPRIATE WMD AND THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT.</p> <p>STORM WATER MANAGEMENT NA</p> <p><b>3. TIMING OF CONTROLS/MEASURES</b></p> <p>REFER TO "CONTRACTOR'S RESPONSIBILITY" FOR THE TIMING OF CONTROLS/MEASURES.</p> <p><b>4. POLLUTION PREVENTION PLAN CERTIFICATION</b></p> <p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____ DATED: _____</p>	<p><b>1. GENERAL</b></p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTORS REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p><b>2. SEQUENCE OF MAJOR ACTIVITIES:</b></p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> <li>INSTALL STABILIZED CONSTRUCTION ENTRANCE</li> <li>INSTALL SILT FENCES AND HAY BALES AS REQUIRED</li> <li>CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</li> <li>CONSTRUCT SEDIMENTATION BASIN</li> <li>CONTINUE CLEARING AND GRUBBING</li> <li>STOCK PILE TOP SOIL IF REQUIRED</li> <li>PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</li> <li>STABILIZE DENUDE AREAS AND STOCKPILES AS SOON AS PRACTICABLE</li> <li>COMPLETE GRADING AND INSTALL PERMANENT SEEDINGS/ SOOD AND PLANTING</li> <li>REMOVE ACCUMULATED SEDIMENT FROM BASINS</li> <li>WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOOD AS REQUIRED</li> </ol> <p><b>3. TIMING OF CONTROLS/MEASURES</b></p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLAN. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.</p> <p><b>4. CONTROLS</b></p> <p>IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLAN SHEETS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLAN SHEETS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p><b>A. EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</b></p> <ol style="list-style-type: none"> <li><b>HAY BALE BARRIER:</b> HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:             <ol style="list-style-type: none"> <li>WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</li> <li>IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> <li>WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.</li> <li>EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.</li> <li>REFER TO STANDARD DETAIL D-913 FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO D-901, D-911 AND D-12 FOR PROPER LOCATION, MATERIAL, &amp; USAGE.</li> </ol> </li> <li><b>FILTER FABRIC BARRIER:</b> FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:             <ol style="list-style-type: none"> <li>WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</li> <li>IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> <li>REFER TO STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.</li> </ol> </li> <li><b>BRUSH BARRIER WITH FILTER FABRIC:</b> BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</li> <li><b>LEVEL SPREADER:</b> A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL PILE IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.</li> <li><b>STOCKPILING MATERIAL:</b> NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.</li> <li><b>EXPOSED AREA LIMITATION:</b> THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL, EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.</li> <li><b>INLET PROTECTION:</b> INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</li> </ol> <p><b>8. TEMPORARY SEEDING:</b> AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p><b>9. TEMPORARY SEEDING AND MULCHING:</b> SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES SEED MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p><b>10. TEMPORARY GRASSING:</b> THE SEEDER OR SEEDER AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHOD IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX &amp; AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p><b>11. TEMPORARY REGRASSING:</b> IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p><b>12. MAINTENANCE:</b> ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p><b>13. PERMANENT EROSION CONTROL:</b> THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p><b>14. PERMANENT SEEDING:</b> ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SOODED.</p> <p><b>B. STRUCTURAL PRACTICES</b></p> <ol style="list-style-type: none"> <li><b>TEMPORARY DIVERSION DIKE:</b> TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT TRAPPING FACILITY AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D-914.</li> <li><b>TEMPORARY SEDIMENT TRAP:</b> A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:             <ol style="list-style-type: none"> <li><b>BLOCK &amp; GRAVEL SEDIMENT FILTER:</b> THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO D-802 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-804 FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER.</li> <li><b>GRAVEL SEDIMENT TRAP:</b> THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS. REFER TO D-803 FOR CONSTRUCTION OF CURB INLET AND DROP INLET SEDIMENT TRAP.</li> <li><b>CURB INLET SEDIMENT TRAP:</b> THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S &gt; 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q &lt; 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO D-905 FOR CONSTRUCTION OF HAY BALE &amp; FABRIC SEDIMENT FILTER.</li> </ol> </li> <li><b>OUTLET PROTECTION:</b> APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.</li> </ol> <p><b>C. SEDIMENT BASINS</b></p> <p>SEDIMENT BASINS WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER (TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,000 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.</p> <p>THE 3,000 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.</p> <p><b>5. CONTROLS FOR OTHER POTENTIAL POLLUTANTS</b></p> <p><b>WASTE DISPOSAL</b></p> <ol style="list-style-type: none"> <li><b>WASTE MATERIALS:</b> ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOIL WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULLED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</li> <li><b>OFFSITE VEHICLE TRACKING:</b> A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.</li> <li><b>SANITARY WASTE:</b> ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</li> <li><b>HAZARDOUS WASTE:</b> ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</li> </ol> <p><b>6. INVENTORY FOR POLLUTION PREVENTION PLAN</b></p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table border="0"> <tr> <td><input type="checkbox"/> Concrete</td> <td><input type="checkbox"/> Fertilizers</td> <td><input type="checkbox"/> Wood</td> </tr> <tr> <td><input type="checkbox"/> Asphalt</td> <td><input type="checkbox"/> Petroleum Based Products</td> <td><input type="checkbox"/> Masonry Blocks</td> </tr> <tr> <td><input type="checkbox"/> Tar</td> <td><input type="checkbox"/> Cleaning Solvents</td> <td><input type="checkbox"/> Roofing Materials</td> </tr> <tr> <td><input type="checkbox"/> Detergents</td> <td><input type="checkbox"/> Paints</td> <td><input type="checkbox"/> Metal Studs</td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> </tr> </table> <p>CONTRACTOR SHALL CHECK APPROPRIATE BOXES.</p> <p><b>7. SPILL PREVENTION</b></p> <p><b>MATERIAL MANAGEMENT PRACTICES</b></p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p><b>GOOD HOUSEKEEPING</b></p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <ul style="list-style-type: none"> <li>* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</li> <li>* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</li> <li>* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</li> <li>* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</li> <li>* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</li> <li>* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</li> <li>* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</li> </ul> <p><b>HAZARDOUS PRODUCTS</b></p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <ul style="list-style-type: none"> <li>* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT REUSABLE.</li> <li>* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</li> <li>* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</li> </ul> <p><b>PRODUCT SPECIFIC PRACTICES</b></p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p><b>PETROLEUM PRODUCTS</b></p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p><b>FERTILIZERS</b></p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p><b>PAINTS</b></p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p><b>CONCRETE TRUCKS</b></p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p><b>SPILL CONTROL PRACTICES</b></p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p>	<input type="checkbox"/> Concrete	<input type="checkbox"/> Fertilizers	<input type="checkbox"/> Wood	<input type="checkbox"/> Asphalt	<input type="checkbox"/> Petroleum Based Products	<input type="checkbox"/> Masonry Blocks	<input type="checkbox"/> Tar	<input type="checkbox"/> Cleaning Solvents	<input type="checkbox"/> Roofing Materials	<input type="checkbox"/> Detergents	<input type="checkbox"/> Paints	<input type="checkbox"/> Metal Studs	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<p><b>11. CERTIFICATION STATEMENT</b></p> <p>ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY ACTIVITIES AT THE SITE.</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORM WATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">RESPONSIBLE FOR DUTIES</th> <th style="width: 20%;">GENERAL CONTRACTOR</th> <th style="width: 20%;">SUB-CONTRACTOR</th> <th style="width: 20%;">SUB-CONTRACTOR</th> <th style="width: 20%;">SUB-CONTRACTOR</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p><b>BUSINESS NAME, ADDRESS OF CONTRACTOR AND SUBS</b></p> <p> </p> <p><b>SIGNATURE AND TITLE</b></p> <p> </p> <p><b>12. POLLUTION PREVENTION PLAN CERTIFICATION</b></p> <p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>DATED: _____</p> <p>SIGNED: _____</p>	RESPONSIBLE FOR DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR					
<input type="checkbox"/> Concrete	<input type="checkbox"/> Fertilizers	<input type="checkbox"/> Wood																									
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<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____																									
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JEFFREY LUCAS, P.E.  
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**CLIENT:**  
PHOENIX PARK FUND V, LP.

**PROJECT:**  
HARBOR ISLAND BEACH CLUB DOCK REFURBISHMENT

**SHEET TITLE:**  
EROSION AND SEDIMENT CONTROL CONTRACTOR REQUIREMENTS

**ATKINS**

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SHEET NO. C-11

NOTE: ALL ITEMS LISTED IN THIS SHEET MAY NOT APPLY, BUT SHOULD BE REFERENCED AS SOUND PROTOCOLS TO COMPLY WITH PERMIT CONDITIONS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED.