





REVISIONS:	DATE
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471 US HIGHWAY #1  
SUITE 100  
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305-296-1692

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**PROJECT:**

EXTENDED  
NEW EMBARKMENT / DISSEMBARKMENT RAMP  
KEY WEST BIGHT  
FERRY TERMINAL

**DRAWING TITLE:**

FULL DOCK EXTENSION  
PLAN & ELEVATION

PROJECT NUMBER:  
16.23  
DRAWN: KM/TSN  
CHECKED: PMP  
DATE: 09-19-2016

SHEET #

**A-2**

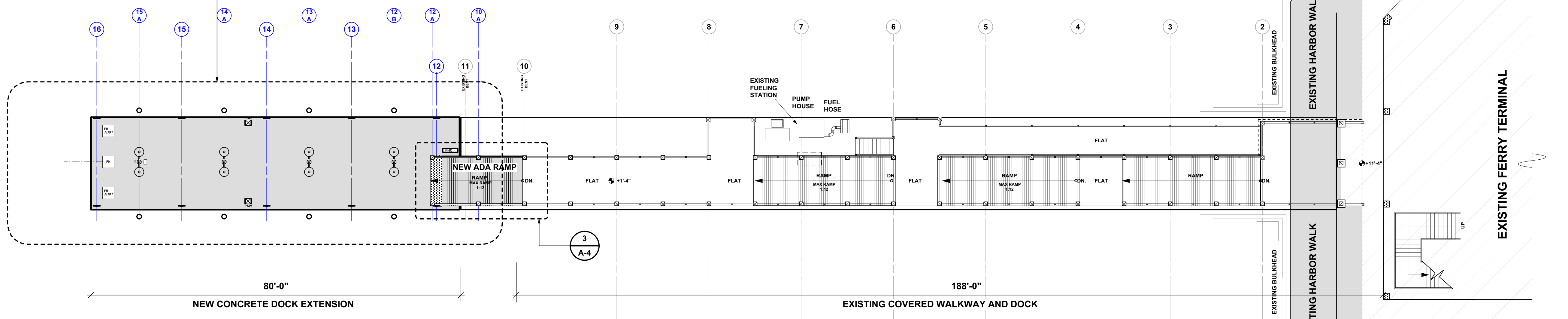
OF 6

PETER M. PIKE FLA. REGISTRATION # AR0015198



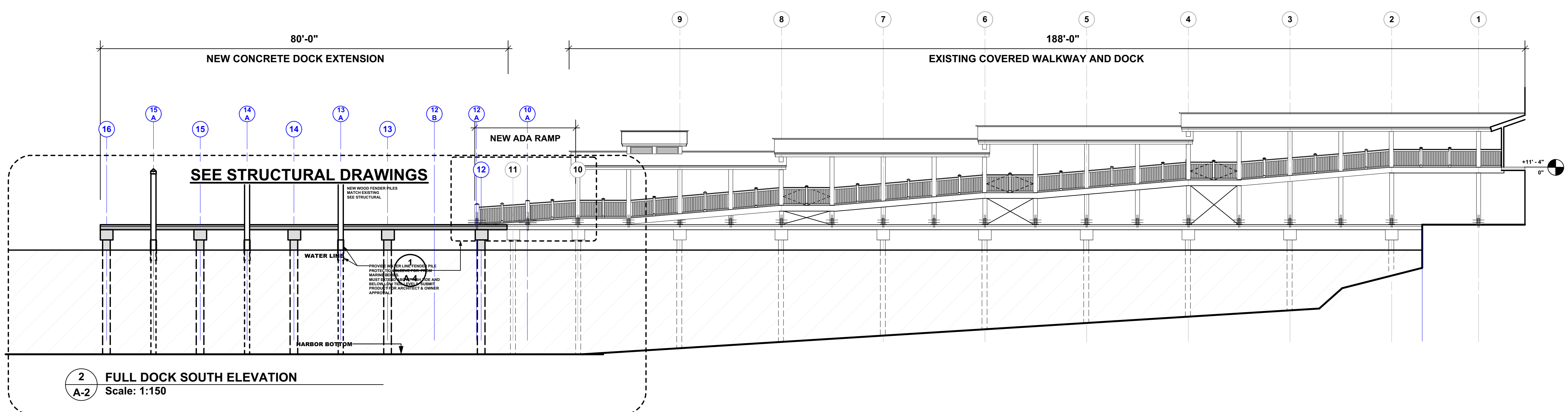
SEE STRUCTURAL DRAWINGS

KEY WEST BIGHT HARBOR

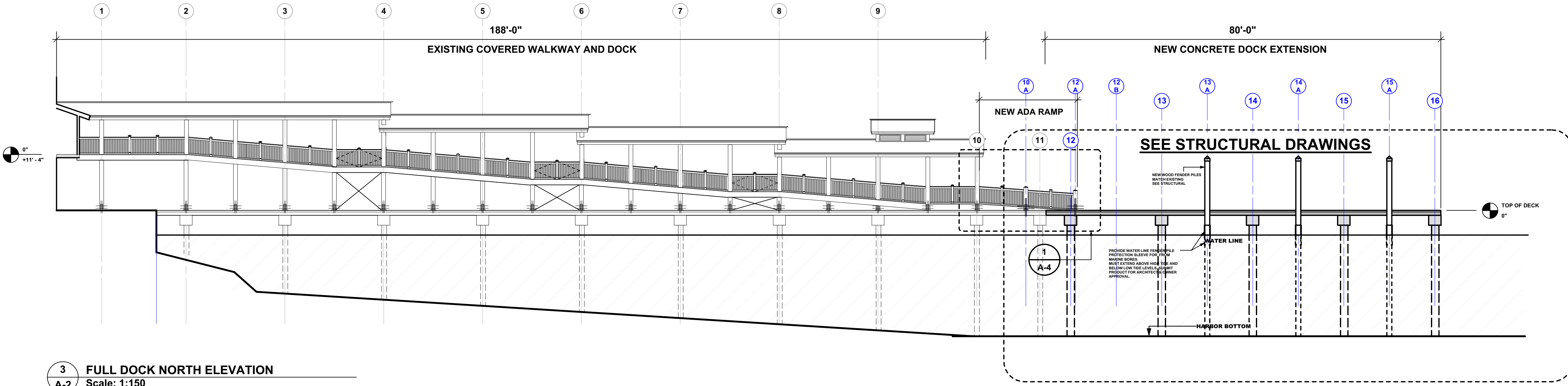


1 FULL DOCK PLAN  
A-2 Scale: 1:150

KEY WEST BIGHT HARBOR




2 FULL DOCK SOUTH ELEVATION  
A-2 Scale: 1:150



3 FULL DOCK NORTH ELEVATION  
A-2 Scale: 1:150

REVIEWS:		DATE
#1		12-29-2016
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DOCK EXTENSION  
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SUITE 101  
KEY WEST, FLA. 33004  
305-296-1692**

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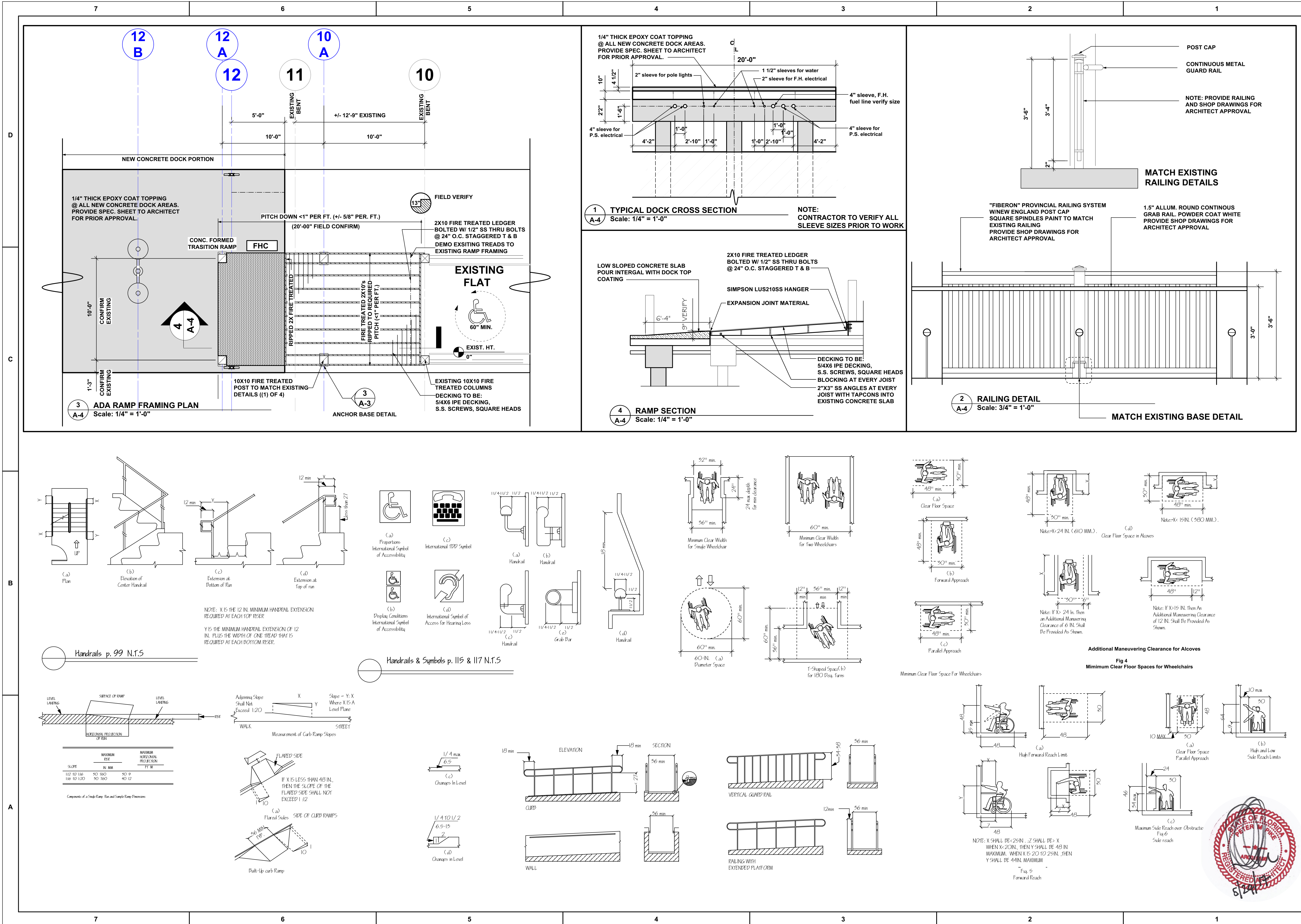
**PROJECT:** EXTENDED  
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**DRAWING TITLE:**

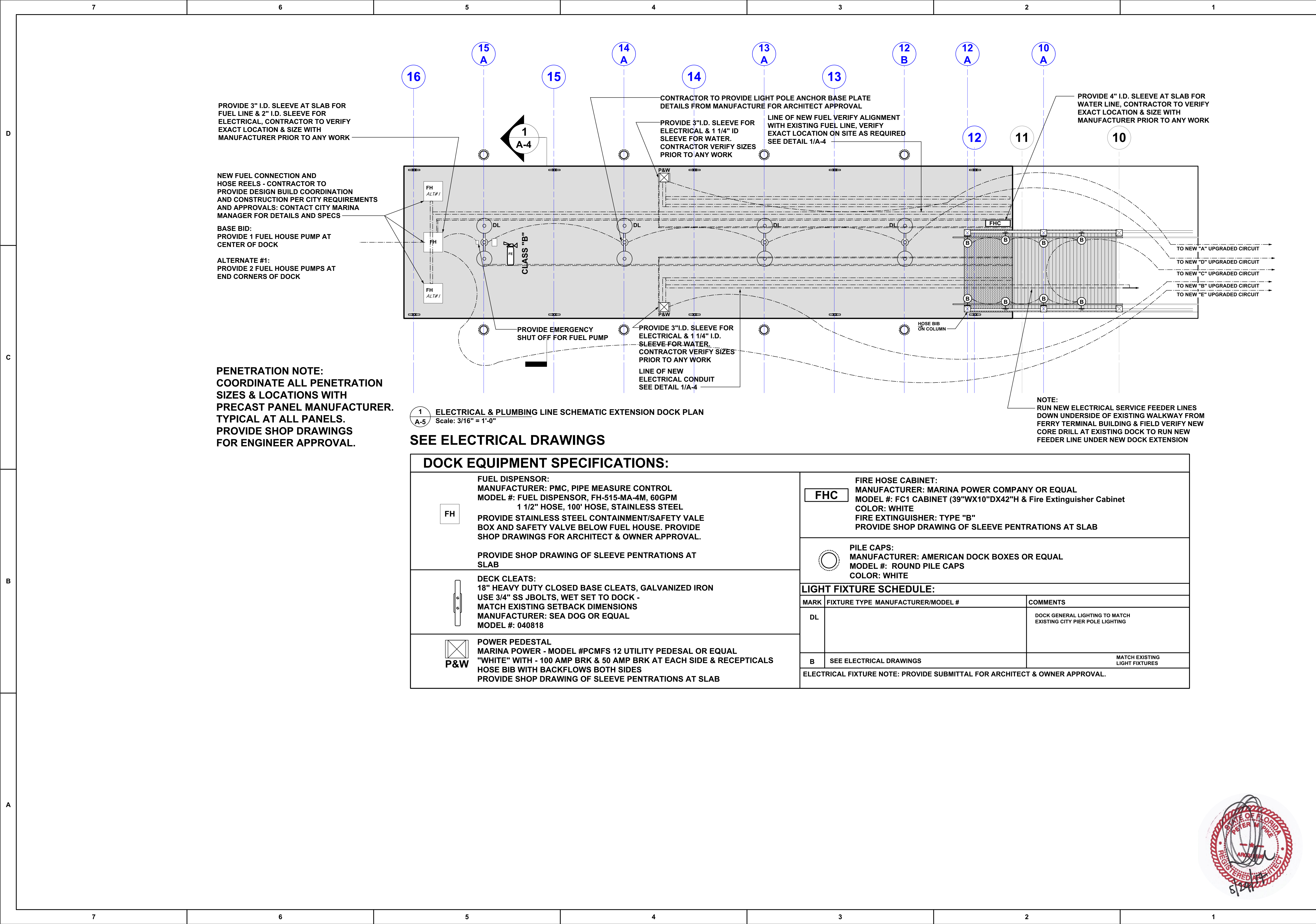
**FRAMING PLAN  
& ADA DETAILS**

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SHEET #  
**A-4**  
OF 6







PROVIDE 3" I.D. SLEEVE AT SLAB FOR FUEL LINE & 2" I.D. SLEEVE FOR ELECTRICAL, CONTRACTOR TO VERIFY EXACT LOCATION & SIZE WITH MANUFACTURER PRIOR TO ANY WORK

NEW FUEL CONNECTION AND HOSE REELS - CONTRACTOR TO PROVIDE DESIGN BUILD COORDINATION AND CONSTRUCTION PER CITY REQUIREMENTS AND APPROVALS: CONTACT CITY MARINA MANAGER FOR DETAILS AND SPECS

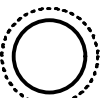
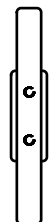

BASE BID:  
PROVIDE 1 FUEL HOUSE PUMP AT CENTER OF DOCK

ALTERNATE #1:  
PROVIDE 2 FUEL HOUSE PUMPS AT END CORNERS OF DOCK

**PENETRATION NOTE:**  
COORDINATE ALL PENETRATION SIZES & LOCATIONS WITH PRECAST PANEL MANUFACTURER. TYPICAL AT ALL PANELS. PROVIDE SHOP DRAWINGS FOR ENGINEER APPROVAL.

1 ELECTRICAL & PLUMBING LINE SCHEMATIC EXTENSION DOCK PLAN  
A-5 Scale: 3/16" = 1'-0"

SEE ELECTRICAL DRAWINGS

DOCK EQUIPMENT SPECIFICATIONS:			
<div>FH</div>	<div>FUEL DISPENSOR:</div> <div>MANUFACTURER: PMC, PIPE MEASURE CONTROL</div> <div>MODEL #: FUEL DISPENSOR, FH-515-MA-4M, 60GPM</div> <div>1 1/2" HOSE, 100' HOSE, STAINLESS STEEL</div> <div>PROVIDE STAINLESS STEEL CONTAINMENT/SAFETY VALE BOX AND SAFETY VALVE BELOW FUEL HOUSE. PROVIDE SHOP DRAWINGS FOR ARCHITECT &amp; OWNER APPROVAL.</div> <div>PROVIDE SHOP DRAWING OF SLEEVE PENETRATIONS AT SLAB</div>		<div>FHC</div> <div>FIRE HOSE CABINET:</div> <div>MANUFACTURER: MARINA POWER COMPANY OR EQUAL</div> <div>MODEL #: FC1 CABINET (39"WX10"DX42"H &amp; Fire Extinguisher Cabinet</div> <div>COLOR: WHITE</div> <div>FIRE EXTINGUISHER: TYPE "B"</div> <div>PROVIDE SHOP DRAWING OF SLEEVE PENETRATIONS AT SLAB</div>
			<div></div> <div>PILE CAPS:</div> <div>MANUFACTURER: AMERICAN DOCK BOXES OR EQUAL</div> <div>MODEL #: ROUND PILE CAPS</div> <div>COLOR: WHITE</div>
<div></div>	<div>DECK CLEATS:</div> <div>18" HEAVY DUTY CLOSED BASE CLEATS, GALVANIZED IRON</div> <div>USE 3/4" SS JBOLTS, WET SET TO DOCK - MATCH EXISTING SETBACK DIMENSIONS</div> <div>MANUFACTURER: SEA DOG OR EQUAL</div> <div>MODEL #: 040818</div>		
<div><div>P&amp;W</div></div>	<div>POWER PEDESTAL</div> <div>MARINA POWER - MODEL #PCMF5 12 UTILITY PEDESAL OR EQUAL</div> <div>"WHITE" WITH - 100 AMP BRK &amp; 50 AMP BRK AT EACH SIDE &amp; RECEPTICALS</div> <div>HOSE BIB WITH BACKFLOWS BOTH SIDES</div> <div>PROVIDE SHOP DRAWING OF SLEEVE PENETRATIONS AT SLAB</div>		
LIGHT FIXTURE SCHEDULE:			
MARK	FIXTURE TYPE	MANUFACTURER/MODEL #	COMMENTS
DL			DOCK GENERAL LIGHTING TO MATCH EXISTING CITY PIER POLE LIGHTING
B	SEE ELECTRICAL DRAWINGS		MATCH EXISTING LIGHT FIXTURES
ELECTRICAL FIXTURE NOTE: PROVIDE SUBMITTAL FOR ARCHITECT & OWNER APPROVAL.			

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EXTENDED  
NEW EMBARKMENT / DISSEMBARKMENT RAMP  
KEY WEST BIGHT  
FERRY TERMINAL

**DRAWING TITLE:**

DOCK  
ELECTRICAL PLAN

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**A-5**

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ENVIRONMENTAL NOTES AND SPECIFICATIONS

Environmental Notes:

1. The Contractor shall review environmental requirements of any proposed staging areas with the City of Key West (Karen Olson, Deputy Director, 305-809-3803) at least seventy-two (72) hours prior to use.
2. No staging or any other activities for this project will be allowed within or adjacent to Key West Bight, seagrass beds, or mangroves except as explicitly shown on the Contract Plans and permitted by the regulatory agencies.
3. Mangroves exist along the eastern shoreline of the project area along Trumbo Road. Any trimming or disturbance to mangroves shall comply with Sec 403.9321-9333 F.S., "Mangrove Trimming and Preservation Act"; A Professional Mangrove Trimmer, designated per 403.9329 F.S., shall be present on site throughout the duration of all mangrove trimming or disturbance activities. The Contractor shall coordinate with the Miami Dade County Project Engineer (Karen DeMaria,Urban Forestry Manager, 305-809-3768) at least seventy-two (72) hours in advance to obtain approval for these activities.)
4. This project is within the Florida Keys National Marine Sanctuary, which is designated as Outstanding Florida Waters (OFW). The project must comply with the turbidity requirements of the OFW designation including: no degradation of water quality; no increased turbidity of the water; and turbidity levels beyond the turbidity control measures cannot exceed 0 Nephelometric Turbidity Units (NTUs) above background levels.
5. The following Federal and State listed animal species could inhabit or migrate through the construction area: West Indian manatee (endangered), piping plover (threatened), sea turtles (endangered), smalltooth sawfish (endangered), roseate tern (threatened) and American crocodile (threatened). The Contractor shall comply with all Federal and State requirements regarding endangered and threatened species and State listed species of special concern. Should these species be encountered, the Contractor shall contact the City of Key West (Karen Olson, Deputy Director, 305-809-3803) within 24 hours of each encounter.
6. Seagrass beds and other benthic communities may exist in the project area. The contractor shall prevent contact with the seabed in these areas and any disturbance of bottom sediments (e.g., from moving or anchoring barges and other structures). The Contractor shall not shade any benthic community from direct sunlight for more than two weeks. Anchoring locations shall be approved by the Project Engineer.

General Comments/Notes to Designer:

Based on a desktop review of DERM and FDEP GIS layers, there are (2) facilities with known contamination within a 300-ft buffer of the project (see list below). Due to the scope of this project and the location of the facility, a more detailed Phase I (Level I) Environmental Site Assessment (ESA) is not necessary at this time. Should the project limits or the scope of work change, a Phase I (Level I) ESA and subsequent Phase II (Level II) ESA may be necessary. Please include the attached notes addressing unidentified areas of contamination during construction in the contract plans.

LIST OF KNOWN AND POTENTIAL CONTAMINATED SITES

1. Key West Bight Terminal, 201 Grinnell St, FDEP #9802172  
2. Conch Harbor Marina, 951 Caroline St, FDEP #8735043

UNIDENTIFIED AREAS OF CONTAMINATION

When encountering or exposing any abnormal condition indicating the presence of a hazardous or toxic waste, or contaminants, cease operations immediately in the vicinity and notify the City of Key West Engineer. The presence of tanks or barrels; discolored earth, metal, wood, ground water, etc.; visible fumes; abnormal odors; excessively hot earth; smoke; or other conditions that appear abnormal may indicate hazardous or toxic wastes or contaminants and must be treated with extreme caution.

Make every effort to minimize the spread of contamination into uncontaminated areas. Immediately provide for the health and safety of all workers at the job site and make provisions necessary for the health and safety of the public that may be exposed to any potentially hazardous conditions. Provisions shall meet all applicable local, State, and Federal laws, rules, regulations or codes covering hazardous conditions and will be in a manner commensurate with the gravity of the conditions.

The City of Key West Engineer and/or Prime Contractor will coordinate and mobilize a qualified Contamination Assessment/Remediation (CAR) Contractor. Qualifications of such CAR Contractor shall include: experience and personnel to prepare contamination assessment plans, conduct contamination assessments, prepare site assessment reports, implement remedial action plans, risk based corrective actions or any other type of environmental assessment or remedial activities as necessary.

All the work performed by the CAR Contractor shall be performed in compliance with all applicable local, state and federal regulations governing worker safety and environmental regulations. This is to include occupational exposure to contaminated soils, groundwater, wastes and atmosphere during the construction of all features included in the construction plans. In addition, the CAR Contractor must be staffed with Florida licensed technical professionals (geologists and engineers) who will be involved with the project and howledgeable of the work activities conducted within the identified contaminated areas and who would sign and seal project reports as required for submittal to the appropriate environmental regulatory agencies.

The City of Key West Engineer will immediately notify the Florida Department of Transportation (FDOT) District VI Contamination Impact Coordinator (DCIC) at (305) 470-5228 after encountering the unidentified areas of contamination. Preliminary investigation by the CAR Contractor will determine the course of action necessary for site security and the steps necessary under applicable laws, rules, and regulations for additional assessment and/or remediation work to resolve the contamination issue.

Following completion of the project, the CAR Contractor shall be required to provide copies of all reports submitted to regulatory agencies, waste material profiles, manifests and/or disposal receipts for the handling of all contaminated media including but not limited to ground water, waste water, soils, solid wastes, sludge, hazardous wastes, air monitoring records and sample results for all materials tested and analyzed to the City of Key West Engineer and the FDOT DCIC.

TURBIDITY BARRIER NOTES AND SPECIFICATIONS

NOTE: ENTITE PROJECT TO BE PROTECTED VIA IMPLIMENTATION OF A TURBIDITY BARRIER AND ENVIORNMENTAL PROTECTION PLAN AS REQUIRED BY LOCAL, STATE AND FEDEWRAL LAW

ARCHITECTURAL SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

1. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A201, ARE A PART OF THIS PROJECT. CONTRACTORS WHO ARE NOT FAMILIAR WITH THIS DOCUMENT MAY OBTAIN COPIES FROM THE ARCHITECT, OR THE OFFICE OF THE AMERICAN INSTITUTE OF ARCHITECTS, MIAMI, FLORIDA. OWNER MAY SUBSTITUTE CONTRACT FOR CONSTRUCTION OTHER THAN AIA 201.
2. ALL WORK SHALL BE IN STRICT CONFORMITY WITH THE FLORIDA BUILDING CODE, LATEST EDITION, AND WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES OF THE CITY, COUNTY, STATE, UTILITY COMPANIES AND ANY OTHER GOVERNING AGENCIES.
3. THE CONTRACT WORK INCLUDES ALL MATERIAL, EQUIPMENT, TOOLS, LABOR AND SERVICES NECESSARY FOR THE COMPLETION OF THE PROJECT. THE OWNER HAS THE RIGHT TO, AND EXPECTS ALL WORK TO BE COMPLETED AS EXPEDITIOUSLY AS QUALITY WORKMANSHIP SHALL ALLOW.
4. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND FOR INSPECTION SERVICES OF LOCAL AUTHORITIES WHERE REQUIRED BY LAW.
5. NOTIFY ALL UTILITY COMPANIES PRIOR TO EXCAVATION FOR LOCATION OF UNDERGROUND UTILITIES, AND/OR PROTECTION OR REMOVAL OF OVERHEAD POWER LINES AND POLES.
6. PROVIDE SAFETY BARRICADES, SIGNALS, FENCES, ETC., AS REQUIRED FOR THE SAFE EXECUTION OF THE WORK.
7. THE OBSERVATION OF THE CONTRACT WORK SHALL BE DONE BY THE PERSON LISTED IN THE CONTRACT AGREEMENT AS THE ARCHITECT. IN THE CASE THAT NO OBSERVATION BY THE ARCHITECT IS PROVIDED IN THE CONTRACT, THE FUNCTIONS OF THE ARCHITECT, WHEREVER CALL FOR IN THE SPECIFICATIONS, SHALL BE EXERCISED BY THE OWNER.
8. THE CONTRACTOR SHALL PROVIDE A TEMPORARY INSTALLATION OF ELECTRIC SERVICE IF SUCH SERVICE IS NOT AVAILABLE ON SITE.
9. MATERIALS AND LABOR
- 9.1 SUBMIT SAMPLES TO THE ARCHITECT FOR APPROVAL OF COLOR WHERE REQUIRED.
- 9.2 ALL WORK SHALL BE PERFORMED IN THE BEST AND MOST PROFESSIONAL MANNER BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES.
- 9.3 WHERE BRAND NAMES OR MANUFACTURERS NAMES APPEAR, THEY ARE USED TO ESTABLISH A QUALITY OF MATERIAL AND/OR PROCESS. SUBSTITUTIONS WILL BE APPROVED BY THE ARCHITECT IF, IN HIS JUDGMENT, THEY CONSTITUTE AN EQUAL MATERIAL OR PROCESS.
- 9.4 ALL TRADES SHALL GUARANTEE ALL WORK TO BE FREE OF DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 9.5 APPLY, INSTALL, CONNECT, ERECT, CLEAN, CONDITION, AND USE ALL MANUFACTURED ARTICLES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND AS SHOWN ON THE DRAWINGS. PROVIDE OWNER WITH ALL GUARANTEES AND MAINTENANCE MANUALS FOR ALL APPLIANCES AND PIECED OF EQUIPMENT INSTALLED AS A PART OF THE WORK.
10. PERFORMANCE
- 10.1 BY SUBMITTING A BID, THE BIDDER AGREES AND WARRANTS THAT HE HAS EXAMINED THE DRAWINGS AND SPECIFICATIONS AND FOUND THAT THEY ARE ADEQUATE FOR THE PROPER COMPLETION OF THE PROJECT.
- 10.2 NO CLAIMS FOR ANY EXTRA CHARGES WILL BE ALLOWED BECAUSE OF ALLEGED IMPOSSIBILITIES DUE TO INADEQUATE DRAWINGS OR SPECIFICATIONS.
- 10.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIELD MEASUREMENTS BEFORE ORDERING MATERIALS AND PREFABRICATED ITEMS. ANY NECESSARY ADJUSTMENTS BETWEEN FIELD MEASUREMENTS AND DRAWINGS SHALL BE MADE AS PER THE DECISION OF THE ARCHITECT
11. PAYMENTS
- PER CONTRACT WITH OWNER
12. INSURANCE
- 12.1 THE CONTRACTOR SHALL CARRY WORKMEN COMPENSATION INSURANCE TO THE EXTENT REQUIRED BY LAW AND SHALL MAINTAIN SUCH INSURANCE IN FULL FORCE DURING THE ENTIRE TIME OF THIS CONTRACT.
- 12.2 THE CONTRACTOR SHALL CARRY COMPREHENSIVE GENERAL AND AUTOMOTIVE LIABILITY INSURANCE OF \$100,000 TO \$300,000 (MINIMUM) AND PROPERTY DAMAGE INSURANCE OF \$50,000 (MINIMUM).
13. COMPLETION
- 13.1 ALL WORK SHALL BE SUBSTANTIALLY COMPLETED AT A TIME STIPULATED IN THE CONTRACT AGREEMENT OR IN TIME EXTENDED FOR JUSTIFIABLE DELAYS, IF ANY.
- 13.2 A BUILDING OR ANY OTHER WORK SHALL BE CONSIDERED SUBSTANTIALLY COMPLETED WHEN NINETY-FIVE PERCENT (95%) OF THE WORK IS DONE AND THE BUILDING IS READY FOR OCCUPANCY OR THE PREMISES FOR USE.

CONCRETE EPOXY COATING TO MATCH EXISTING COLOR, TEXTURE AND APPLICATION

- 6.1 FINISHED FLOOR SLAB SURFACES SHALL BE PLANE SURFACES AS SHOWN ON THE DRAWINGS. WHERE DRAINS OCCUR SLOPE FLOOR EVENLY TO DRAINS.
- 6.2 INTERIOR SLABS SHALL BE SCREEDED WITH A STRAIGHT EDGE, FLOATED TO THE REQUIRED LEVEL, AND STEEL TROWELED TO A SMOOTH HARD FINISH.EXTERIOR SLABS SHALL BE BROOM FINISHED.
- 6.3 CONCRETE FLOORS SHALL BE CHECKED FOR TRUENESS WITH AN 8 FOOT STRAIGHT EDGE, ANY DEVIATION FROM THE LINE OF THE STRAIGHT EDGE BY MORE THAN 1/4" SHALL BE REPAIRED IN A MANNER SATISFACTORY TO THE ARCHITECT.
7. AFTER CONSTRUCTION IS COMPLETED, THOROUGHLY CLEAN ALL EXPOSED FLOORS WITH SOAP AND WATER.
8. CONTROL JOINTS SHALL BE FORMED AS INDICATED ON DRAWINGS, OR FORMED WITH METAL KEYWAY TO REMAIN IN THE SLAB.SLABS WITH AN APPROVED LIQUID CURING COMPOUND AND SEALING AGENT, APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

DIVISION 4 - MASONRY

1. SCOPE: FURNISH AND INSTALL ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE NECESSARY TO COMPLETE ALL MASONRY WORK AS INDICATED OR SPECIFIED.
2. RELATED WORK SPECIFIED ELSEWHERE: MASONRY WALL INSULATING AND FILL, FACE CAULKING OF CONTROL JOINTS.
3. MATERIALS: CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE U-1, FC M=1350 P.S.I.
4. CONSTRUCTION AND WORKMANSHIP:
- 4.1 THE WORK SHALL BE DONE BY EXPERIENCED MECHANICS, SKILLED IN THEIR TRADE, IN A FIRST CLASS MANNER.
- 4.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY OF WORKMANSHIP AND FOR COMPLIANCE WITH THE DESIGN AND SPECIFICATIONS. HE SHALL CORRECT ALL ERRORS AND DEVIATIONS AS REQUESTED BY THE ARCHITECT.
- 4.3 TRANSPORT AND HANDLE ALL MASONRY UNITS IN SUCH MANNER AS TO PREVENT CHIPPING AND BREAKAGE. PROTECT ALL MASONRY FROM INCLEMENT WEATHER EFFECTS AND HEAVY AND UNNECESSARY TRAFFIC.
- 4.4 DO NOT LAY CHIPPED CRACKED OR OTHERWISE DEFECTIVE UNITS IN THE WALL
- 4.5 ALL JOINTS SHALL BE AS INDICATED ON DRAWINGS, STRAIGHT, TRUE, AND UNIFORM IN THICKNESS TO COURSE VERTICALLY TO 8.
- 4.6 ALL MASONRY SHALL BE RUNNING BOND UNLESS INDICATED OTHERWISE.
- 4.7 PROVIDE ALL OPENINGS IN MASONRY WALLS WHERE REQUIRED OR INDICATED. BUILD IN ALL ITEMS AS REQUIRED FOR A COMPLETE JOB, INCLUDING (BUT NOT LIMITED TO) REINFORCING STEEL, BOLTS, ANCHORS, CONDUITS AND PIPING.
- 4.8 CLEAN ALL FINISHED MASONRY WALLS FOR A NEAT CLEAN AND FINISHED APPEARANCE, IF EXPOSED TO VIEW.
- 4.9 INSTALL HORIZONTAL JOINT REINFORCEMENT IN WALL JOINTS AT 16" ON CENTER VERTICAL.

DIVISION 6 - CARPENTRY AND MILLWORK:

1. SCOPE: ALL ROUGH AND FINISH CARPENTRY WORK AND MILL WORK AS INDICATED ON DRAWINGS AND SPECIFIED. THE INSTALLATION OF ALL ROUGH AND FINISH HARDWARE, SHELVEING AND TRIM, HANGER AND ALL MATERIAL NECESSARY TO COMPLETE ALL THE FRAMING AND FINISH WORK AS SHOWN. INSTALL ALL BLOCKING, FIRE STOPS, BACKING, BRIDGING, ETC., FOR THE PROPER INSTALLATION OF ALL APPLIED ITEMS.
2. RELATED WORK SPECIFIED ELSEWHERE: FINISHES.

DIVISION 16 - ELECTRICAL

1. SCOPE: FURNISH, INSTALL AND CONNECT COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, SPECIFIED OR OTHERWISE NECESSITATED BY THE WORK, INCLUDING, BUT NOT NECESSARILY LIMITED TO ELECTRICAL SERVICE ENTRANCE AND METERING, COMPLETE ELECTRIC DISTRIBUTION SYSTEM FOR LIGHTING AND POWER, WIRING AND RELATED WORK FOR: MECHANICAL SYSTEMS, MOTORS, PUMPS, TELEPHONE, CABLE T.V. ROUGH IN, AND EQUIPMENT.
2. RELATED WORK SPECIFIED ELSEWHERE: EXCAVATION, FILLING AND BACKFILLING, MECHANICAL AND PLUMBING
3. CONSTRUCTION AND WORKMANSHIP: ALL WORK AND MATERIALS SHALL COMPLY WITH THE FOLLOWING ASSMINUM STANDARDS.
- A.THE NATIONAL ELECTRIC CODE, LATEST EDITION
- B.THE NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION STANDARDS
- C.THE NATIONAL ELECTRICAL SAFETY CODE
- D.THE INSULATED POWER CABLE ENGINEERS ASSOCIATION STANDARDS
- E.UNDERWRITERS LABORATORIES INCORPORATED STANDARDS
- 4.GENERAL REQUIREMENTS
- 4.1 ALL OUTLETS SHALL BE GROUNDED
- 4.2 ALL WORK SHALL BE CONCEALED.
- 4.3 ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. GROUND ROD AND ASSEMBLY SUPPLIED AND INSTALLED BY CONTRACTOR
- 4.4 LIGHTING FIXTURES, EQUIPMENT, ETC., SHALL BE AS SCHEDULED OR OTHERWISE INDICATED ON THE DRAWINGS.
- 4.5 THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION (EXCEPT LAMPS) FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 4.6 MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE APPLICABLE CURRENT STANDARDS OF UNDERWRITERS LABORATORIES INC.:
- PANELS: SQUARE "D" OR EQUAL PANELS WITH RAIN TIGHT ENCLOSURE WHEN USED OUTDOORS.
- ROMEX 12-2 WITH GROUND AND METAL BOXES ARE PERMITTED, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. INSTAL WITH METAL CONDUIT
- FEEDERS TO BE (2) 1/0 THW W (1) THW IN 4" CONDUIT, OR AS NOTED ON DRAWINGS
- CONDUIT TO BE P.V.C. PROVIDE STUB ONLY.
- WIRING DEVICES SHALL BE LEVITON, RESIDENTIAL GRADE WHITE, OR APPROVED EQUAL.
- 4.7 CONTRACTOR SHALL FURNISH LIGHTING FIXTURES AND FANS IN CONTRACT AS CALLED FOR ON THE FIXTURE SCHEDULE SHOWN ON THE DRAWINGS. IN THE ABSENCE OF A FIXTURE SCHEDULE, FIXTURES WILL BE AS SELECTED BY THE OWNER AND SHALL BE THE OWNER AS A NEGOTIATED EXTRA TO THE CONTRACT. THE OWNER RESERVES THE RIGHT TO FURNISH FIXTURES SHOWN ON THE INSTALLATION IN LIEU OF PURCHASING THEM THROUGH THE CONTRACTOR.
- 4.8 CONTRACTOR SHALL FURNISH AND INSTALL APPROVED HARD-WIRED SMOKE DETECTORS IN ACCORDANCE WITH THE FLORIDA REQUIREMENTS



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FERRY TERMINAL

DRAWING TITLE:  
ENVIORNMENTAL NOTES  
GENERAL SPECS.

PROJECT NUMBER:  
16.23  
DRAWN: KM/TSN  
CHECKED: PMP  
DATE: 09-19-2016

SHEET #  
A-6  
OF 6

For Permitting Only Not For Construction

PETER M. PIKE FLA. REGISTRATION # AR0015198



# CITY OF KEY WEST - 80 FT LONG PIER EXTENSION

## KEY WEST BIGHT FERRY TERMINAL

THESE DRAWINGS ARE BASED ON  
ARCHITECTURAL DRAWING SET  
DATED 08-02-2016

### DRAWING INDEX

S-1	DRAWING INDEX & GENERAL NOTES
S-2	SITE PLAN
S-3	PILE LAYOUT AND BENT FRAMING PLAN
S-4	PRESTRESSED BEAM FRAMING PLAN & DETAILS
S-5	GENERAL SECTIONS
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S-7	PILE CAP REINFORCING AT PIER 1
S-8	PILE CAP REINFORCING AT PIERS 2, 3 AND 4
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S-10	PRESTRESSED BEAMS REINFORCING
S-11	WOOD FENDER PILES AND DOLPHINS

### ABBREVIATIONS:

A	: ARCHITECT
CIP	: CAST-IN-PLACE
CLR	: CLEAR COVER
C.P.	: CONTROL POINT
E	: ENGINEER
EF	: EACH FACE
ELEV	: ELEVATION
FDOT	: FLORIDA DEPARTMENT OF TRANSPORTATION
FF	: FAR FACE
GC	: GENERAL CONTRACTOR
MLW	: MEAN LOW WATER
NF	: NEAR FACE
N.I.	: NOT INCLUDED
NVGD	: NATIONAL GEODETIC VERTICAL DATUM
QPL	: QUALIFIED PRODUCT LIST
P/C	: PRECAST
P/S	: PRESTRESSED, PRESTRESSING
SDG	: STRUCTURES DESIGN GUIDELINES
SIM	: SIMILAR
T.D.E.	: TOP OF DECK ELEVATION
T.F.D.E.	: TOP OF FINISHED DECK ELEVATION
U.N.O.	: UNLESS NOTED OTHERWISE

### LIST OF REFERENCED FDOT DESIGN STANDARDS

INDEX NO.	DESCRIPTION
20600	NOTES AND DETAILS FOR SQUARE P/S CONCRETE PILES
20614	14" SQUARE PRESTRESSED CONCRETE PILE

### GENERAL NOTES

#### A. CODES, SPECIFICATIONS AND DESIGN GUIDELINES:

- FLORIDA BUILDING CODE, 5TH EDITION (2014).
- FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (2016 EDITION).
- DESIGN STANDARDS AND REFERENCES:
  - ASCE/SEI 7-10 STANDARD, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
  - ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

#### B. DESIGN LOADS:

- DEAD LOADS:
  - UNIT WEIGHT OF CONCRETE : 150 PCF
- SUPERIMPOSED DEAD LOADS
  - MECHANICAL EQUIPMENT : 30 PSF
- SUPERIMPOSED LIVE LOADS:
  - SUPERIMPOSED LIVE LOAD : 150 PSF
- WIND LOADS:

RISK CATEGORY: : I

EXPOSURE CATEGORY: : D

BASIC WIND SPEED (MONROE COUNTY): : 170 MPH (3 SEC. GUST)
- DESIGN VESSEL:

: DWT = 200 TONNES

: LOA = 111 FT

: BEAM = 24 FT

: DRAFT = 6 FT

#### C. MATERIALS:

##### 1. CONCRETE:

CLASS OF CONCRETE	MINIMUM COMPRESSIVE STRENGTH (PSI) 28-DAY	AT TRANSFER	LOCATION OF CONCRETE IN STRUCTURE
<b>IV</b> (Bridge Deck)	5,500	-	CIP TOPPING & CONCRETE OVER CAP BEAMS
<b>IV</b>	5,500	-	CAP BEAMS
<b>V</b> (Special)	6,000	4,000	PRESTRESSED BEAMS AND PILES

- ALL CONCRETE SHALL HAVE TYPE II CEMENT AND CLASS F FLY ASH.
  - PROVIDE  $\frac{3}{4}$ " CHAMFERS ON ALL EXPOSED EDGES UNLESS OTHERWISE NOTED.
  - JOINTS WILL BE PERMITTED ONLY AT LOCATIONS SHOWN ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS, OR ALTERNATE LOCATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL BY THE ENGINEER.
- ##### 2. REINFORCING STEEL:
- ALL REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60 UNCOATED.
  - WWM - SHALL BE DEFORMED WELDED WIRE PER ASTM A497 UNCOATED.
  - HEADED DOWELS SHALL BE ASTM A970, A706, OR A615 GRADE 60.
  - ALL DIMENSIONING PERTAINING TO THE LOCATION OF REINFORCING ARE TO THE CENTERLINE OF BARS, OR CENTERLINE OF MESH UNLESS NOTED OTHERWISE.
  - REINFORCEMENT DETAIL DIMENSIONS ARE OUT TO OUT OF BARS OR MESH.
  - PRESTRESSING STRANDS FOR BEAMS SHALL BE ASTM A416, 270K LOW RELAXATION UNCOATED.
  - PRESTRESSING STRANDS FOR PILES SHALL BE CFRP PER SECTION 933 OF FDOT SSRBC.
  - SPIRAL TIES FOR PILE STRANDS SHALL BE CFRP PER SECTION 932 OF FDOT SSRBC.

#### D. ENVIRONMENTAL CLASSIFICATION:

SUPERSTRUCTURE	SUBSTRUCTURE
EXTREMELY AGGRESSIVE	EXTREMELY AGGRESSIVE

#### E. CONCRETE REINFORCEMENT COVER:

- CONCRETE COVER SHALL BE AS FOLLOWS U.N.O.:
  - PRESTRESSED PILES : 3" CLEAR TO SPIRAL TIES
  - PILE CAPS : 3" CLEAR TO STIRRUPS
  - PRESTRESSED BEAMS : 3" TO CENTER OF STRANDS
  - CAST-IN-PLACE JOINTS : 3" VERTICAL CLEAR TO STIRRUPS
  - TOP OF TOPPING : 2  $\frac{1}{2}$ " CLEAR
- CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

#### F. CORROSION PROTECTION:

- HIGH PERFORMANCE PENETRATING SEALER FROM FDOT APL SHALL BE APPLIED TO THE SURFACES INDICATED ON THESE DRAWINGS ONLY.

#### G. DECK FINISH:

- THE CAST-IN-PLACE STRUCTURAL TOPPING SHALL HAVE A UNIFORM TRANSVERSE LIGHT BROOM FINISH. THE GENERAL CONTRACTOR SHALL VERIFY THAT THIS FINISH IS CONSISTENT WITH THE REQUIREMENTS FOR THE PROPER INSTALLATION OF THE ARCHITECT'S SPECIFIED EPOXY TOPPING.
- THE KEYWAYS SHALL BE GROUTED PRIOR TO INSTALLATION OF THE REINFORCEMENT AND POURING OF THE CAST-IN-PLACE CONCRETE OVER THE DECK.

#### H. UTILITIES:

- PENETRATIONS TO EXCEED 8" DIAMETER OR 8" SQUARE SHALL BE FORMED IN THE PRECAST CONCRETE BEAMS AND C.I.P. CAP BEAMS AS APPLICABLE.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PENETRATIONS PRIOR TO CONSTRUCTION OF THE CAP BEAMS AND THE FABRICATION OF PRECAST BEAMS. CORE DRILLING THROUGH THE PRESTRESSING TENDONS IN THE PRECAST BEAMS SHALL NOT BE ALLOWED.

#### I. ELEVATIONS:

- ALL ELEVATIONS SHOWN ON THESE DRAWINGS ARE NGVD IN FEET, UNLESS NOTED OTHERWISE.

#### J. CONSTRUCTION TOLERANCES:

ALL CONSTRUCTION TOLERANCES SHALL BE PER FDOT STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE ON THESE DRAWINGS.

#### K. PRECAST MANUFACTURER:

- PRECAST MANUFACTURER SHALL BE FDOT CERTIFIED WITH AT LEAST 10 YEARS EXPERIENCE IN THE FABRICATION OF THE SPECIFIED PRODUCTS.
- PRECAST MANUFACTURER SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND LIFTING DESIGN CALCULATIONS FOR REVIEW.

#### L. OTHER SHOP DRAWINGS:

- THE FOLLOWING SHOP DRAWINGS SHALL BE ALSO SUBMITTED FOR REVIEW: CONCRETE MIX DESIGN(S), REINFORCING, ACCESSORIES, MECHANICAL, ELECTRICAL, CLEATS, AND ANY OTHER DRAWINGS FOR INSTALLATIONS THAT MAY REQUIRE COORDINATION WITH THE REINFORCEMENT.

#### M. PILE INSTALLATION:

- THE PILE DRIVING EQUIPMENT SHALL BE SELECTED BY THE PILE SPECIALTY CONTRACTOR IN COORDINATION WITH THE GEOTECHNICAL CONSULTANT AS REQUIRED.
- THE METHOD OF INSTALLATION SHALL FOLLOW THE GEOTECHNICAL REPORT CONSTRUCTION RECOMMENDATIONS AND FDOT STANDARD SPECIFICATION A455.
- THE LENGTH OF THE PRODUCTION PILES SHALL BE DEFINED BY THE CONTRACTOR AFTER THE TEST PILES ARE DRIVEN TO PRACTICAL REFUSAL AS PER FDOT STANDARD A455.
- ALL COSTS ASSOCIATED TO PILE INSTALLATION, INCLUDING BUT NOT LIMITED TO PRE-FORMING, PILE CUTOFFS AND DOWEL INSTALLATION SHALL BE INCLUDED IN THE BID PRICE.

#### N. GEOTECHNICAL INVESTIGATION:

- FOR SUB-SURFACE EXPLORATION DATA, GEOTECHNICAL ENGINEERING EVALUATION AND FOUNDATION CONSTRUCTION RECOMMENDATIONS, REFER TO "GEOTECHNICAL EXPLORATION REPORT DATED MARCH 2012- FERRY TERMINAL DOCK EXTENSION" BY NUTTING ENGINEERS OF FLORIDA, INC., 2051 NW 112th AVE., SUITE 126, MIAMI, FLORIDA 33072, TELEPHONE 305.557.3083, ORDER NO. 126.21.3.

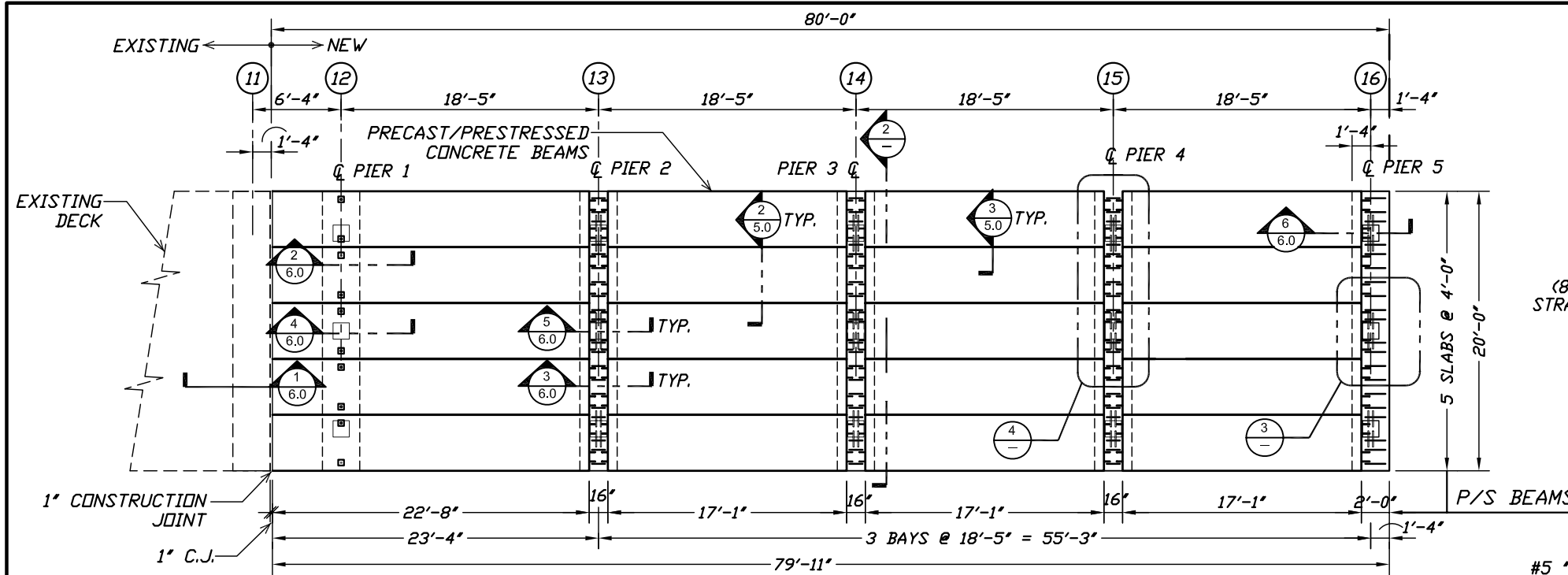
DESCRIPTION	DATE	BY
PILE REINFORCEMENT	4-10-17	M.C.
REV	1	
M. CORDERO & ASSOCIATES STRUCTURAL ENGINEERS CA # 6278 1327 LAKE MEADOW DRIVE, LAKELAND, FLORIDA 33813 TEL: (863) 646-6277 FAX: (863) 533-1054 www.prestress.com/mca Web Page		
PETER PIKE ASSOCIATES Architects - Planners - Consultants 471 US HIGHWAY 1 SUITE 101 KEY WEST, FL 33040 305-296-1692		
DRAWING INDEX, GENERAL NOTES JOB NAME: CITY OF KEY WEST PIER EXTENSION LOCATION: 100 GRINNELL ST., KEY WEST, FLORIDA ARCHITECT: PETER PIKE ASSOCIATES CONTRACTOR:		
DRAWN : K.C. CHK'D : M.C. APPR : M.C. DATE : 08-11-16 RELEASED:		
JOB NO: 071116		
SHT: 1.0	OF: 11	



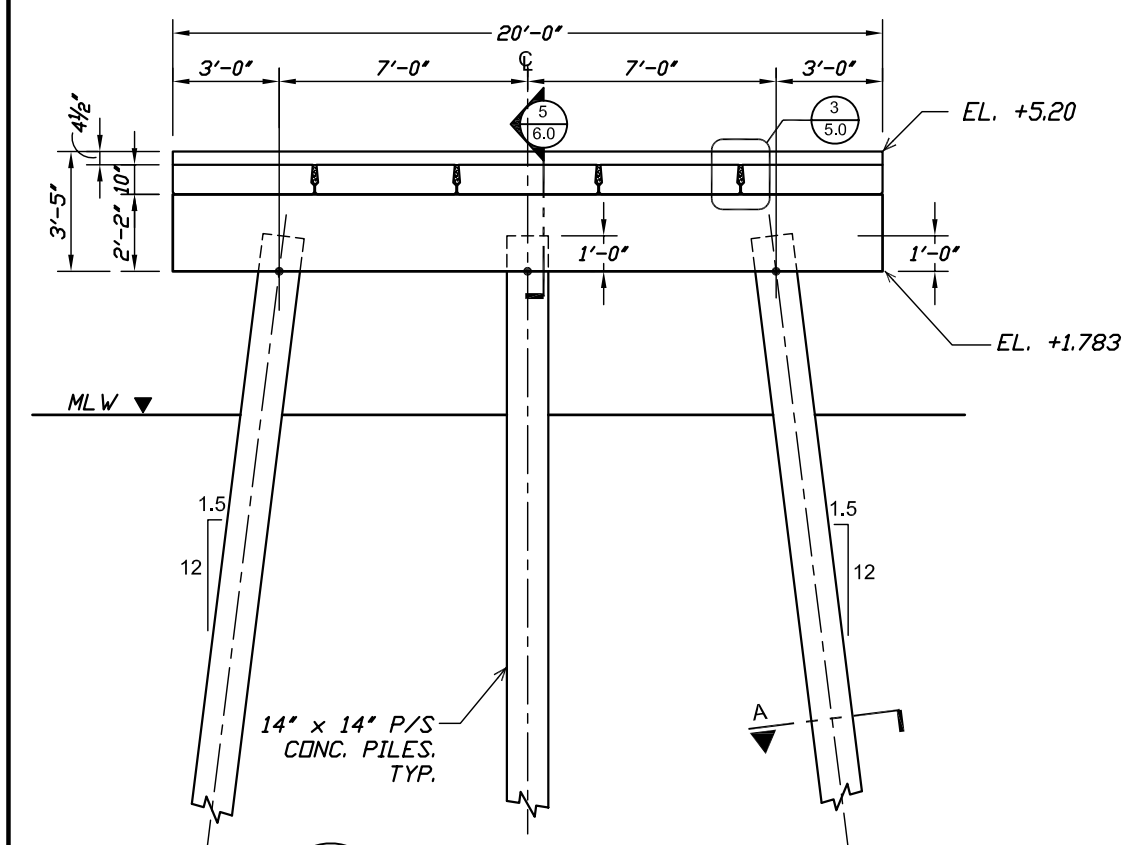




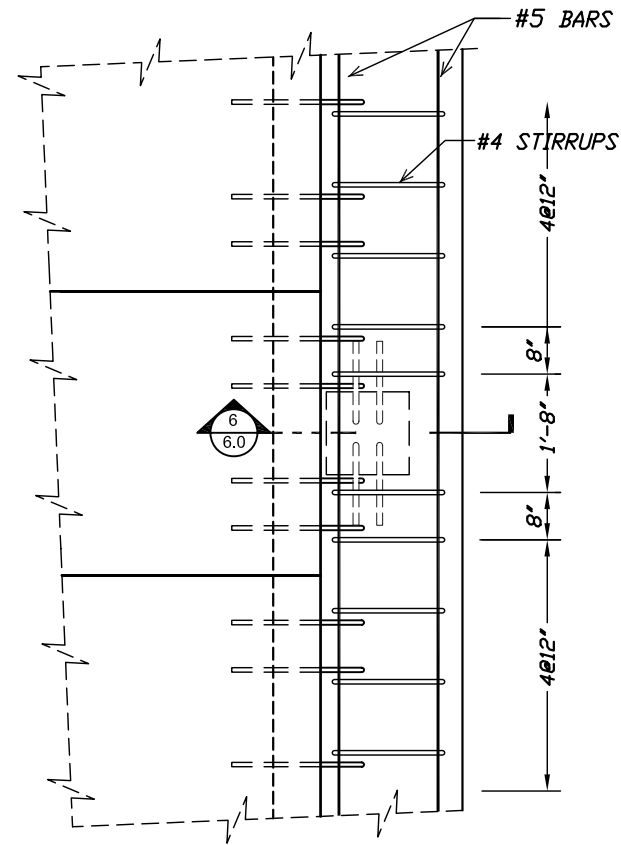




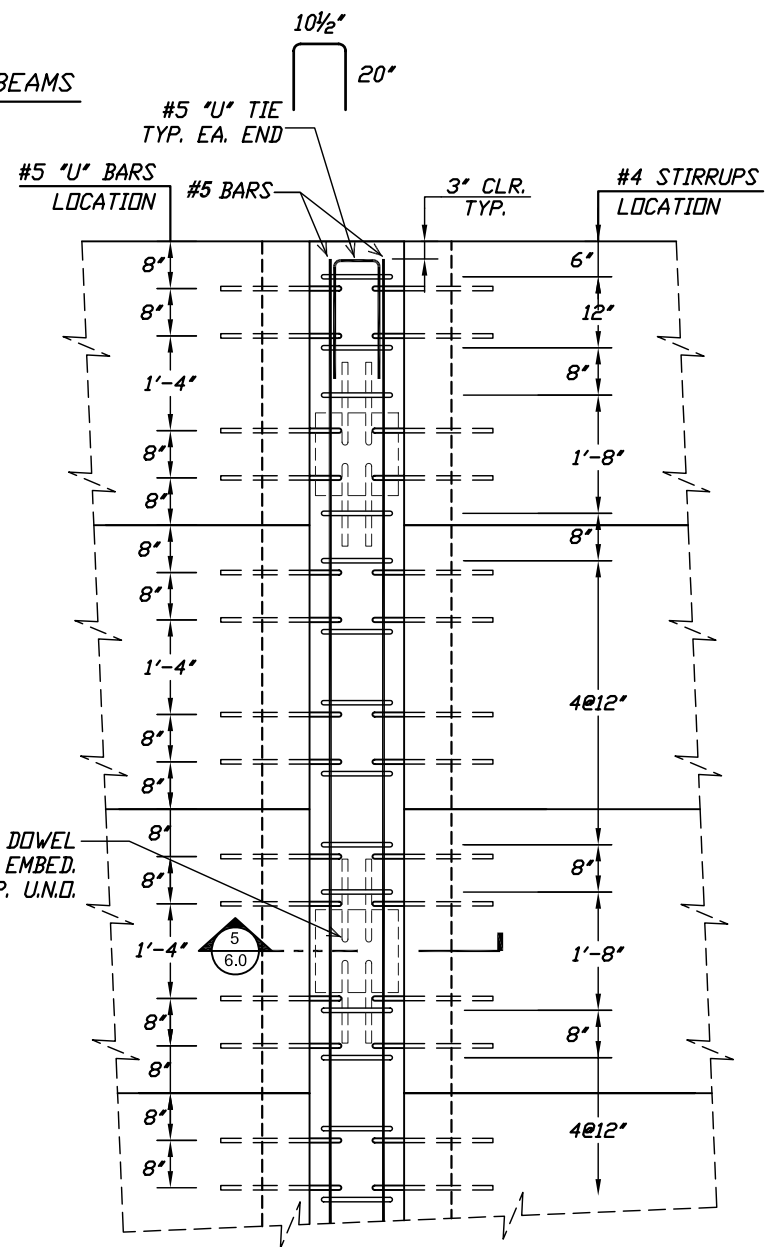
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**P/S SLAB FRAMING PLAN**  
SCALE 3/32" : 1'-0"  
N



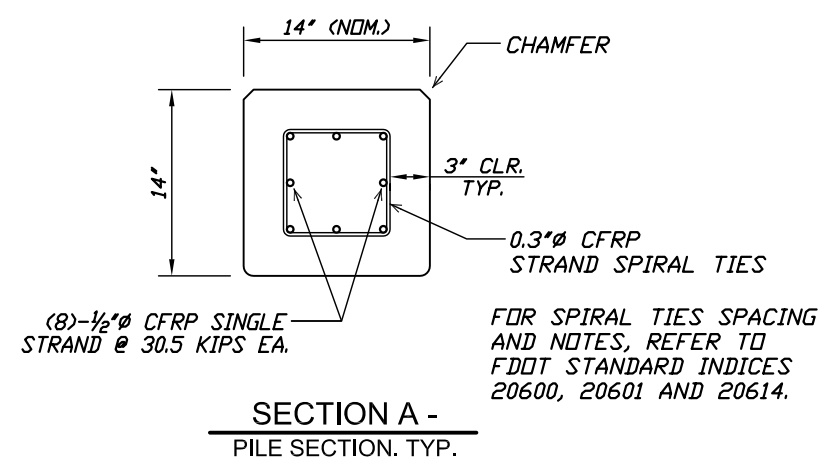
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**SECTION**  
SCALE 3/16" : 1'-0"



**3**  
4.0  
**FIELD REINF. DETAIL**  
SCALE 3/8" : 1'-0"



**4**  
4.0  
**FIELD REINF. DETAIL**  
SCALE 3/8" : 1'-0"



REV	DESCRIPTION	DATE	BY
1	PILE REINFORCEMENT	4-10-17	M.C.

M. CORDERO & ASSOCIATES STRUCTURAL ENGINEERS CA # 6278 127 LAKE MENDOTA DRIVE, LAKELAND, FLORIDA 33803 TEL: (863) 646-6277 FAX: (863) 533-1054 www.prestress.com/mca Web Page	PETER PIKE ASSOCIATES Architects - Planners - Consultants 471 US HIGHWAY 1 SUITE 101 KEY WEST, FL 33040 305-296-1692	<b>P/S BEAM FRAMING PLAN &amp; DETAILS</b> JOB NAME: CITY OF KEY WEST PIER EXTENSION LOCATION: 100 GRINNELL ST., KEY WEST, FLORIDA ARCHITECT: PETER PIKE ASSOCIATES CONTRACTOR:
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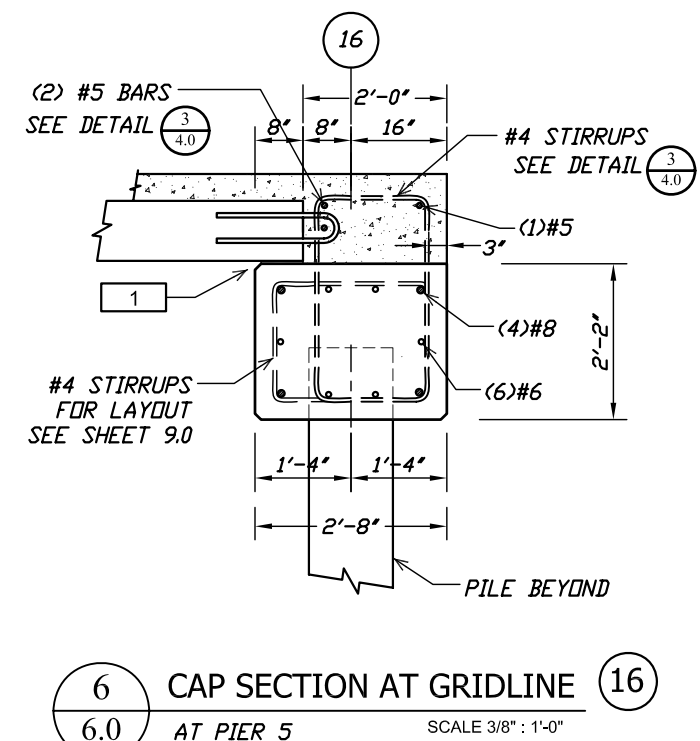
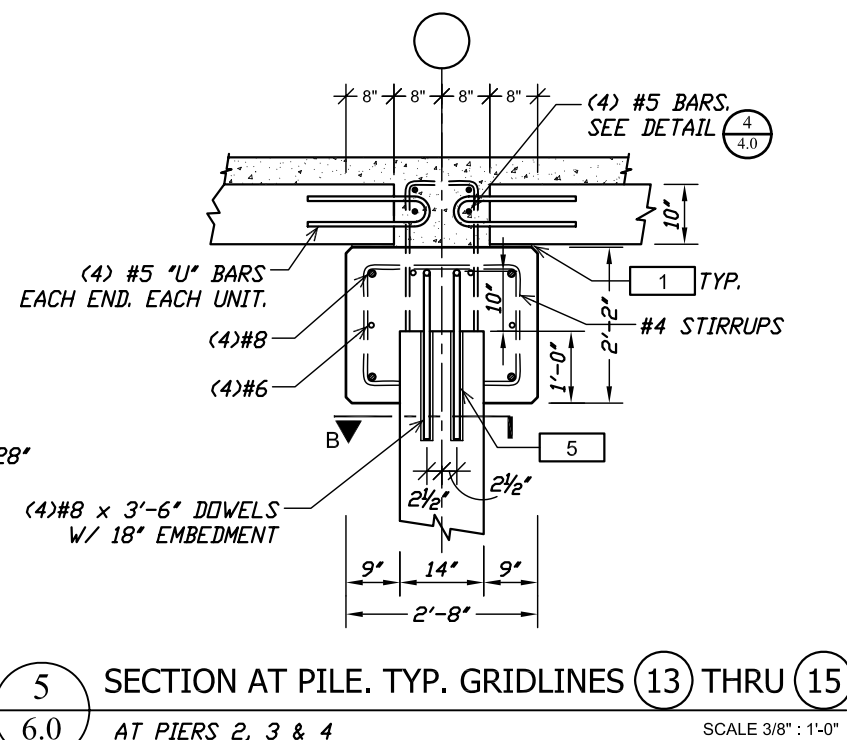
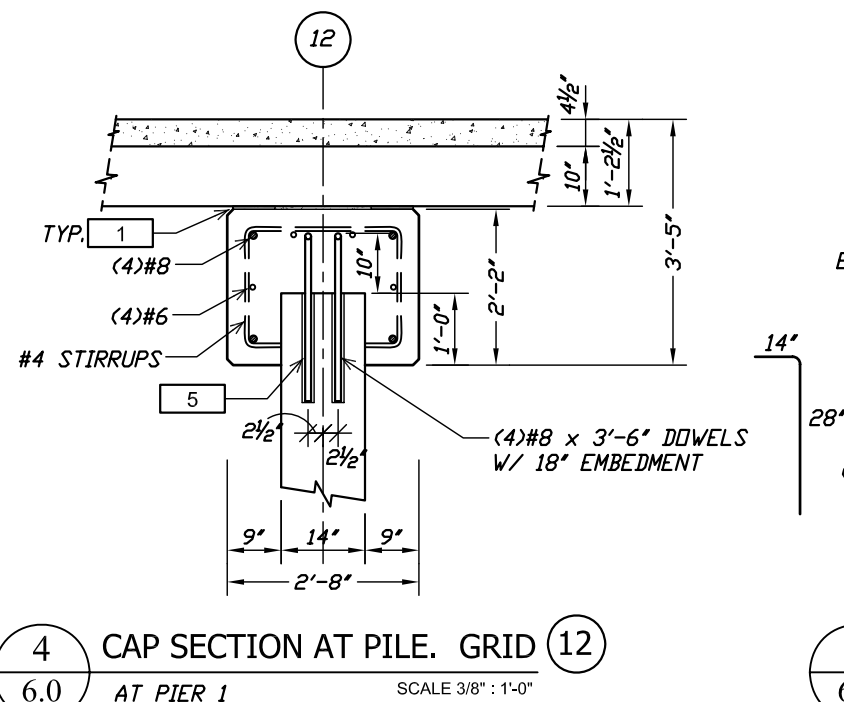
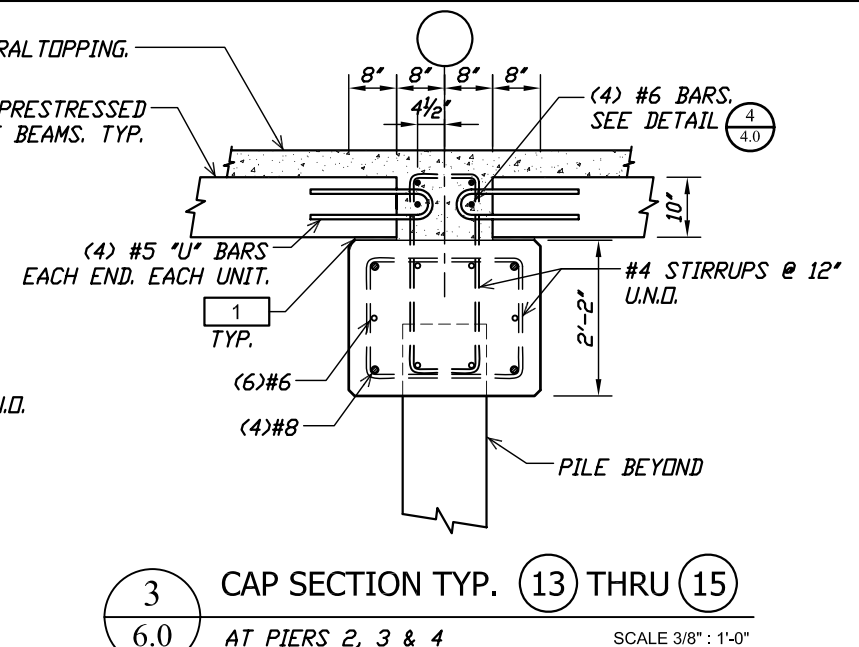
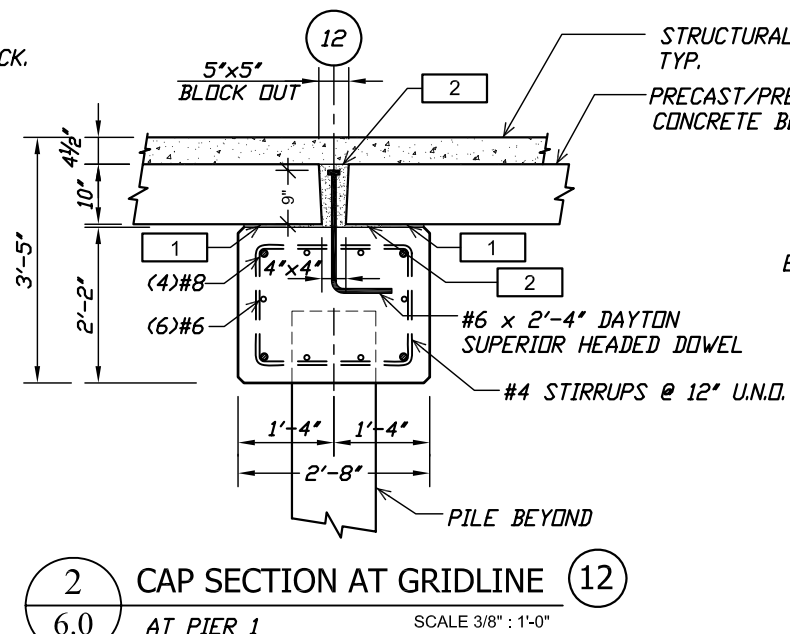
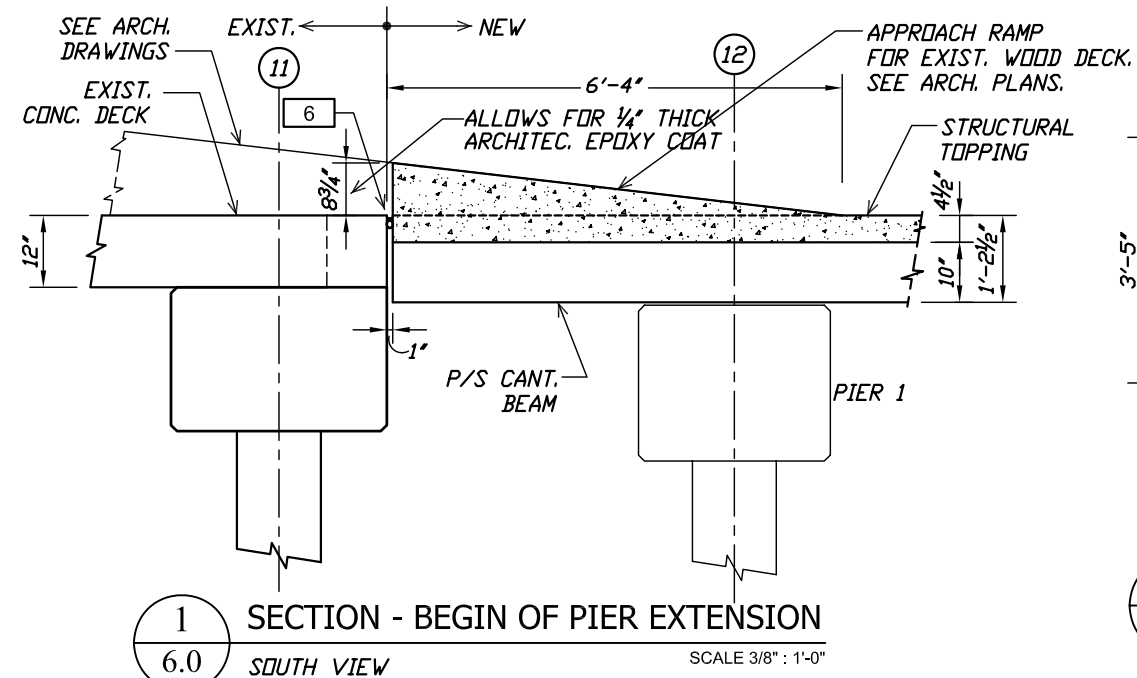
  

DRAWN : K.C. CHK'D : M.C. APPR : M.C. DATE : 08-11-16 RELEASED:	JOB NO: 071116 SHT: 4.0 OF: 11
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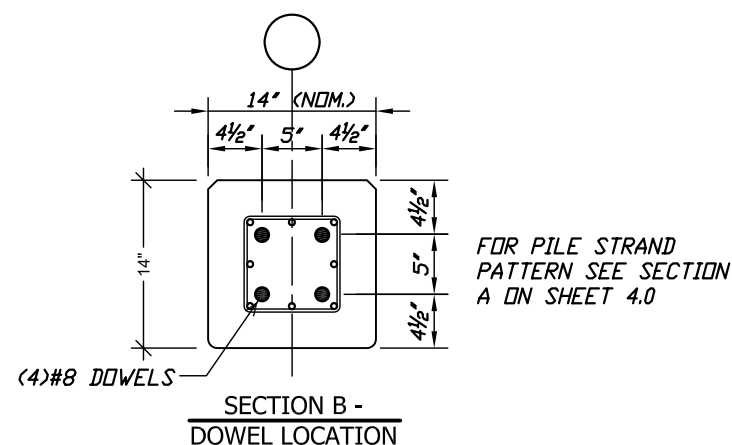






NOTATION :

- |   |  |
|---|--|
| 1 | 5" WIDE x 1/2" THICK CONTINUOUS<br>NEOPRENE STRIP          |
| 2 | NON-SHRINK NON-METALLIC GROUT                              |
| 5 | EPOXY ADHESIVE, SIKADUR 31 HI-MOD GEL<br>OR APPROVED EQUAL |
| 6 | SILICONE SEALANT AND BACKER ROD FROM<br>FDOT QPL           |



<b>SECTIONS &amp; DETAILS</b>		<b>PETER PIKE ASSOCIATES</b> Architects - Planners - Consultants 471 US HIGHWAY 1 SUITE 101 KEY WEST, FL 33040 305-296-1692	<b>M. CORDERO &amp; ASSOCIATES</b> <b>STRUCTURAL ENGINEERS</b> CA # 6278 1227 LAKE MIRIAM DRIVE, LAKELAND, FLORIDA 33813 TEL: (863) 646-6277 FAX: (863) 533-1054 www.prestress.com/mca Web Page	<b>REV</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>BY</b>
<b>JOB NAME:</b> CITY OF KEY WEST PIER EXTENSION <b>LOCATION:</b> 100 GRINNELL ST., KEY WEST, FLORIDA <b>ARCHITECT:</b> PETER PIKE ASSOCIATES <b>CONTRACTOR:</b>							
<b>DRAWN :</b> K.C.							
<b>CHK'D.:</b> M.C.							
<b>APPR.:</b> M.C.							
<b>DATE :</b> 08-11-16							
<b>RELEASED:</b>							
<b>JOB NO:</b>		071116					
<b>SHT:</b> 6.0	<b>OF:</b> 11						



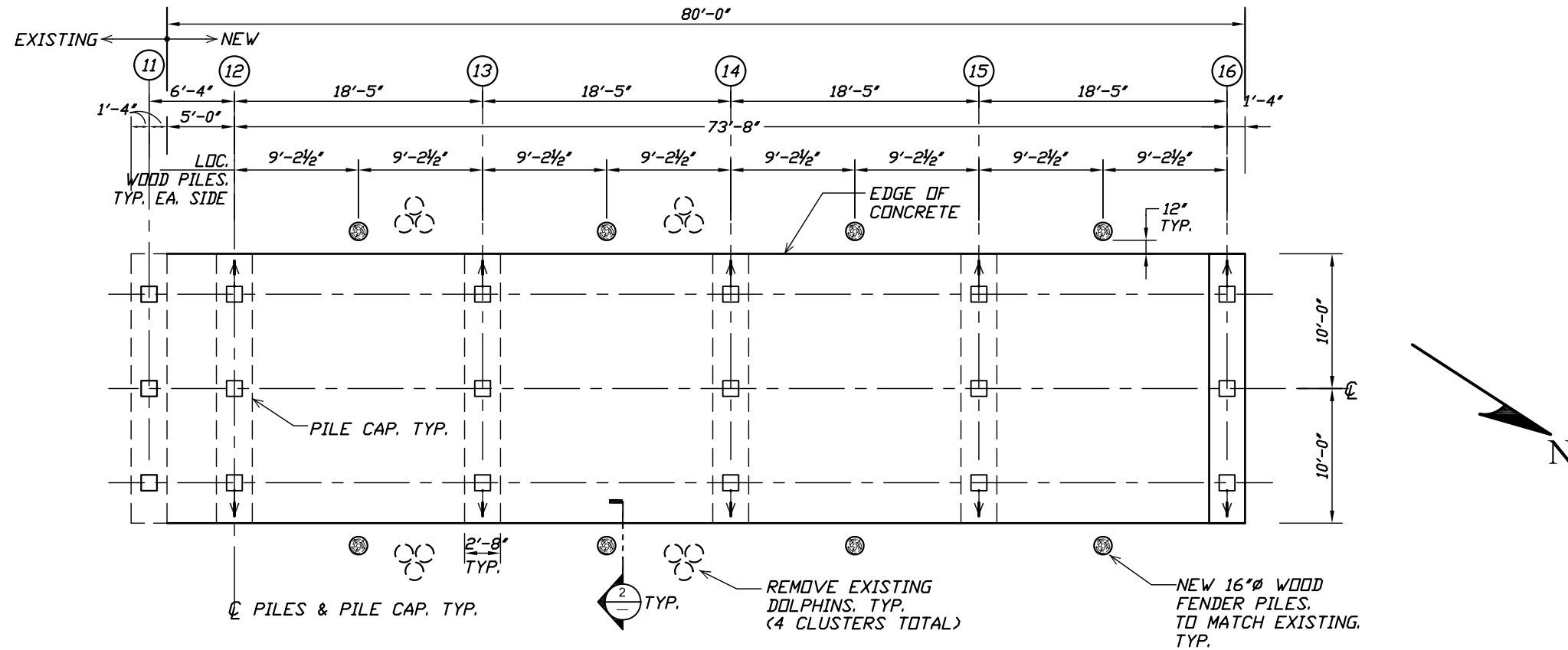








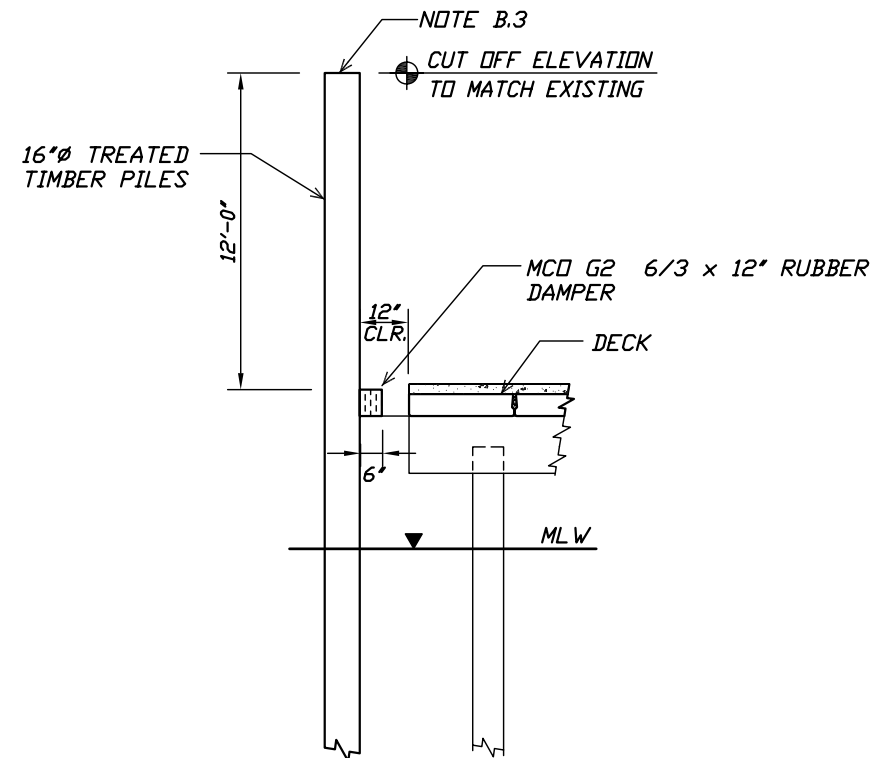




## 1 WOOD PILES LAYOUT

SCALE 3/32" : 1'-0"

- SYMBOLS :
- ⊗ : EXISTING CLUSTER DOLPHIN PILES TO BE REMOVED
- : NEW 16"Ø WOOD FENDER PILES (TOTAL: 8)



## 2 FENDER PILE

### WOOD PILE GENERAL NOTES:

#### A) MATERIAL SPECIFICATIONS:

- WOOD PILES SHALL COMPLY WITH SECTION 953 OF FDOT STANDARD SPECIFICATIONS.
- ALL PILES SHALL BE TREATED FOR MARINE APPLICATIONS PER SECTION 955 OF FDOT STANDARD SPECIFICATIONS.

#### B) INSTALLATION:

- PRE-DRILLING AND GROUTING OF THE PREFORMED PILE HOLES SHALL BE INCLUDED IN THE BID PRICE.
- THE MINIMUM PENETRATION DEPTH OF THE WOOD PILES INTO THE LIMESTONE BEDROCK SHALL BE 8 FEET.
- PILE CUT OFF SURFACES SHALL BE TREATED WITH A LIBERAL APPLICATION OF COOPER NAPHTHENATE.

REV	DESCRIPTION	DATE	BY
1	END WOOD FENDER PILES DELETED	4-10-17	M.C.

M. CORDERO & ASSOCIATES STRUCTURAL ENGINEERS CA # 6278 127 LANE MARIANA DRIVE, LAKELAND, FLORIDA 33813 TEL: (863) 646-6277 FAX: (863) 533-1054 www.prestress.com/mca Web Page	PETER PIKE ASSOCIATES Architects - Planners - Consultants 471 US HIGHWAY 1 SUITE 101 KEY WEST, FL 33040 305-296-1692	WOOD FENDER PILES & DOLPHINS
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JOB NAME: CITY OF KEY WEST PIER EXTENSION LOCATION: 100 GRINNELL ST., KEY WEST, FLORIDA ARCHITECT: PETER PIKE ASSOCIATES CONTRACTOR:	DRAWN: K.C. CHK'D: M.C. APPR: M.C. DATE: 08-11-16 RELEASED:
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JOB NO: 071116
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SHT: 11.0 OF: 11
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ELECTRICAL CONSTRUCTION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), LATEST EDITION, AND APPLICABLE STATE AND LOCAL ORDINANCES. EACH PIECE OF ELECTRICAL EQUIPMENT INSTALLED SHALL BEAR A U.L. LABEL. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) LATEST EDITION.
- THE ELECTRICAL CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, ETC., AND CARRY ALL INSURANCE AS REQUIRED BY LAW PRIOR TO STARTING CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, TRANSPORTATION, RIGGING, TOOLS, STORAGE, ETC., FOR ALL WORK INDICATED AND REQUIRED FOR A COMPLETE INSTALLATION.
- THE ELECTRICAL WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING. WORKMANSHIP SHALL BE THE HIGHEST QUALITY AS ESTABLISHED BY TRADE STANDARDS.
- ELECTRICAL CONTRACTOR SHALL KEEP A MASTER SET OF BLUE LINES THAT ARE TO BE MARKED UP TO REFLECT "AS BUILT" CONDITIONS ON A DAILY BASIS. THESE "AS BUILT" MARK UPS MAY BE REVIEWED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE AT THEIR REQUEST WITHOUT PRIOR NOTIFICATION. THESE "AS BUILT" MARK UPS WILL BE REVIEWED BY THE ENGINEER AND TURNED OVER TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATION WITH THE LOCAL BUILDING DEPARTMENT AND INSPECTION PERSONNEL TO REVIEW CONTRACT DOCUMENTS PRIOR TO INSTALLATION.
- THE OWNER WILL NOT BE HELD LIABLE FOR FIELD CHANGES THAT ARISE FROM CONTRACTOR ERROR OR OMISSION OF MATERIALS OR WORKMANSHIP IN WORK PERFORMANCE.
- THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE LOCAL POWER COMPANY FOR SERVICE AND SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND THE PLACEMENT LOCATION OF THE ELECTRICAL SERVICE AND EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PAY ALL NECESSARY CHARGES TO THE POWER COMPANY PRIOR TO CONSTRUCTION.
- ALL ELECTRICAL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. CO-ORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES, (PLUMBING, HVAC, ETC.) SO AS NOT TO CONFLICT IN LOCATIONS OR PERFORMANCE OF OTHER SYSTEMS.
- NECESSARY, OBVIOUSLY REQUIRED ELECTRICAL ITEMS THAT ARE NOT SHOWN ON THE DRAWINGS, DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO INSTALL A COMPLETE AND SAFE ELECTRICAL SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE WITH OTHER TRADES SO THAT INTERFERENCE BETWEEN CONDUITS, RACEWAYS, DUCTS, PIPING AND STRUCTURAL MEMBERS WILL BE AVOIDED.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL WIRING IN ACCORDANCE WITH THE WIRING DIAGRAMS FOR POWER AND CONTROL OF ALL AIR CONDITIONING, HEATING AND VENTILATING EQUIPMENT AS PROVIDED BY THE HVAC CONTRACTOR.
- WIRE AND CABLE SHALL BE 600 VOLT MINIMUM AWG, #12. ALL WIRING SHALL BE TYPE TW, THIN OF THIN AS NECESSARY TO MEET ALL APPLICABLE CODES.
- ALL WIRE AND CABLE SHALL BE IN A CONDUIT, MINIMUM SIZE 1/2" WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC. ALL SERVICE AND PANELBOARD FEEDER CONDUITS, CONDUITS IN OR BELOW FLOOR, IN DAMP AND WET LOCATIONS, IN CONCRETE AND LARGER THAN TWO INCHES SHALL BE RIGID GALVANIZED STEEL.  
  
ALL CONDUCTORS, UNLESS OTHERWISE NOTED, SHALL BE COPPER RUN IN APPROVED METAL RACEWAY. METAL RACEWAY PENETRATING FLOORS AND FIRE RATED PARTITIONS SHALL BE SEALED AIR TIGHT WITH MATERIAL RATED EQUAL TO THE PENETRATED MATERIAL.  
  
FURNISH AND INSTALL ALL BRANCH CIRCUITS. CIRCUITS SHALL BE #12 WIRE IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. THESE ARE MINIMUM WIRE AND CONDUIT SIZES. ALL WIRE SHALL BE COPPER, NO ALUMINUM CONDUCTORS WILL BE PERMITTED.
- ALL NEW RACEWAYS / CONDUITS SHALL BE METALLIC MINIMUM SIZE 1/2"; SUPPORTED AT INTERVALS NOT TO EXCEED EIGHT (8) FEET; ALL FITTINGS SHALL BE COMPRESSION TYPE, NO SET SCREW TYPE FITTINGS WILL BE PERMITTED.
- IN NO CASE MAY EMT OR FLEXIBLE CONDUIT BE RUN FROM FIXTURE TO FIXTURE WITHOUT THE USE OF OUTLET BOXES.
- FLEXIBLE CONDUIT CAN ONLY BE USED FOR SHORT (MAXIMUM SIX FEET) FINAL CONNECTIONS TO INTERIOR LIGHTING FIXTURES AND EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL FOLLOW THE SAME COLOR CODE IDENTIFICATION FOR EACH PHASE THROUGHOUT THE SYSTEM FROM SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITS.
- ALL SLAB OR ROOF PENETRATIONS SHALL BE WITH APPROVED FIRE RATED AND SMOKE BARRIER FITTINGS. PROVIDE ACCESSORIES (PITCH, POCKETS, CONCRETE, ETC.) AS REQUIRED.
- ALL CONDUITS SHALL BE RUN CONCEALED WHERE POSSIBLE. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND /OR PERPENDICULAR TO BUILDING CONSTRUCTION.
- CONDUIT MAY NOT BE RUN IN DUCTWORK.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 3/4" EMPTY CONDUIT FROM EACH TELEPHONE OUTLET TO THE OWNER'S TELEPHONE BOARD, WITH PULL WIRE. PROVIDE ALL REQUIRED CONDUIT FROM OWNER'S TELEPHONE BOARD TO BUILDING'S TELEPHONE ROOM. PROVIDE PULL BOXES AND PULL WIRE AS REQUIRED. VERIFY EXACT LOCATION OF EXISTING TELEPHONE SERVICE AND CONDUITS. CO-ORDINATE ALL WORK WITH OTHER TRADES AND TELEPHONE COMPANY.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, FITTINGS, PULL WIRE, ETC., REQUIRED FOR ALL MISCELLANEOUS SYSTEMS PER OWNER'S REQUIREMENTS. CO-ORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER.
- ALL COMMUNICATION AND CONTROL WIRING SHALL BE IN CONDUIT.
- FURNISH AND INSTALL PANELBOARDS OF AMPACITIES SHOWN ON PLANS. PANELS SHALL BE CIRCUIT BREAKER TYPE, WITH MAIN LUGS AND BRANCH CIRCUIT BREAKERS AS SCHEDULED. ALL ELECTRICAL PANELS AND EQUIPMENT SHALL BE U.L. LISTED AND APPROVED FOR SUCH USE. PANELS SHALL BE BOLT-ON TYPE AS MANUFACTURED BY SQUARE D OR APPROVED EQUAL.
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ALL RACEWAYS, BRANCH CIRCUITS & FEEDERS, PER LOCAL ELECTRICAL CODES AND THE NEC.
- THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE ALL RECEPTACLE AND OUTLET LOCATIONS WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR BEFORE ROUGH IN.
- ALL LIGHTING FIXTURES SHALL BE SELECTED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (LIGHTING FIXTURES INDICATED ON DRAWINGS AND SCHEDULES ARE FOR REFERENCE ONLY. FIXTURES OF EQUAL QUALITY MAY BE USED AS DIRECTED.)
- ALL TEMPORARY ELECTRICAL SERVICE REQUIRED FOR CONSTRUCTION SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. FOLLOWING CONSTRUCTION, ALL TEMPORARY WIRING AND EQUIPMENT SHALL BE REMOVED WHEN DIRECTED BY THE GENERAL CONTRACTOR. ELECTRIC OUTLETS, CORDS, LIGHTS, LIGHTING LEVELS, ETC., SHALL CONFORM TO O.S.H.A AND LOCAL ORDINANCES.
- ALL ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF AND ALL OUTLET EXPOSED TO WEATHER SHALL BE HEAVY WALL GALVANIZED STEEL.
- SUBMIT SIX COMPLETE COPIES OF SHOP DRAWINGS AND PRODUCT DATA TO LIGHTING FIXTURES, ELECTRICAL PANELS, SERVICE EQUIPMENT, WIRING DEVICES AND DISCONNECT SWITCHES.

ELECTRICAL LEGEND

	2'x4' FLUORESCENT LIGHT FIXTURE - "3" DENOTES QUANTITY OF LAMPS
	2'x1' FLUORESCENT LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE - "A" DENOTES TYPE
	RECESSED CEILING LIGHT FIXTURE
	EXIT LIGHTING SIGN W/ ARROWS AS REQUIRED
	JUNCTION BOX
	DISCONNECT SWITCH - SIZE AND TYPE AS NOTED
	DUPLEX RECEPTACLE - 20 A. - 125 V. W/ GROUND
	DUPLEX RECEPTACLE WEATHERPROOF / GROUND FAULT INTER.
	CONDUIT - CONCEALED IN WALL OR CEILING
	HOMERUN TO PANELBOARD
	FLEXIBLE CONDUIT
	PANELBOARD
	SINGLE POLE SWITCH
	AIR HANDLER UNIT
	CONDENSING UNIT
	TELEPHONE / DATA OUTLET
	THREE WAY SWITCH
	ELECTRIC SERVICE METER
	BATTERY PACK EMERGENCY LIGHT
	CEILING MOUNTED LIGHTING FIXTURE - "A" DENOTES TYPE
	SINGLE RECEPTACLE - 20 A. - 125 V. W/ GROUND
	SPECIAL PURPOSE RECEPTACLE - VERIFY TYPE
	DUPLEX RECEPTACLE - FLOOR MOUNTED
	QUADRUPLEX RECEPTACLE - 20 A. - 125 V.
	VARIABLE SPEED FAN CONTROL SWITCH
	DIMMER SWITCH SIZE AS REQUIRED
	1'x4' FLUORESCENT LIGHT FIXTURE
	BATH EXHAUST FAN
	CEILING FAN
	CABLE / TELEVISION OUTLET

PENETRATION NOTE:  
COORDINATE ALL PENETRATION SIZES & LOCATIONS WITH PRECAST PANEL MANUFACTURER. TYPICAL AT ALL PANELS. PROVIDE SHOP DRAWINGS FOR ENGINEER APPROVAL.

DOCK EQUIPMENT SPECIFICATIONS:

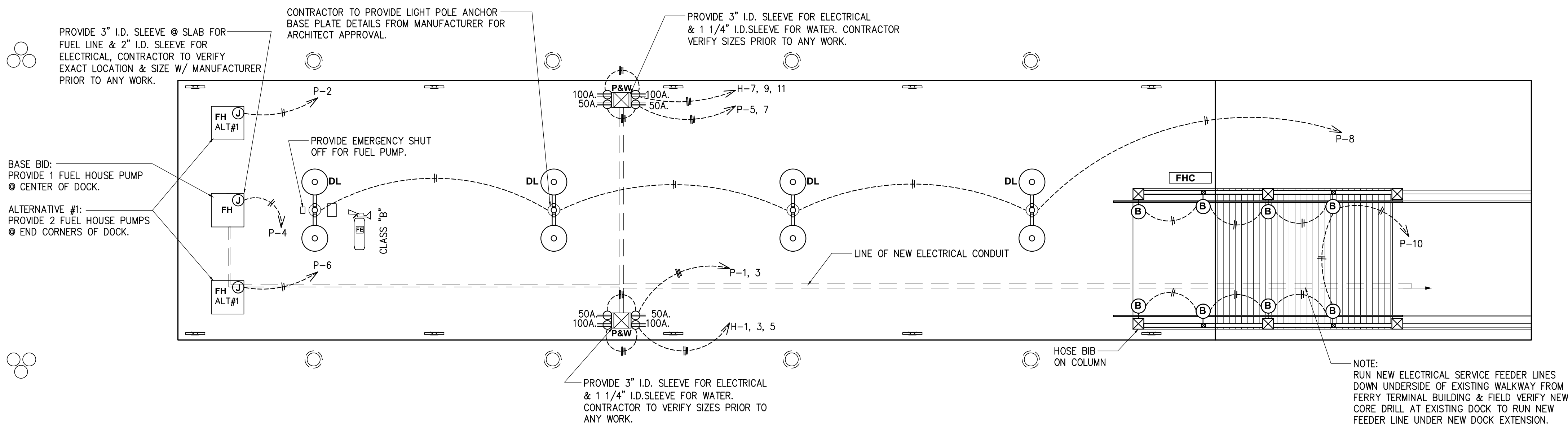
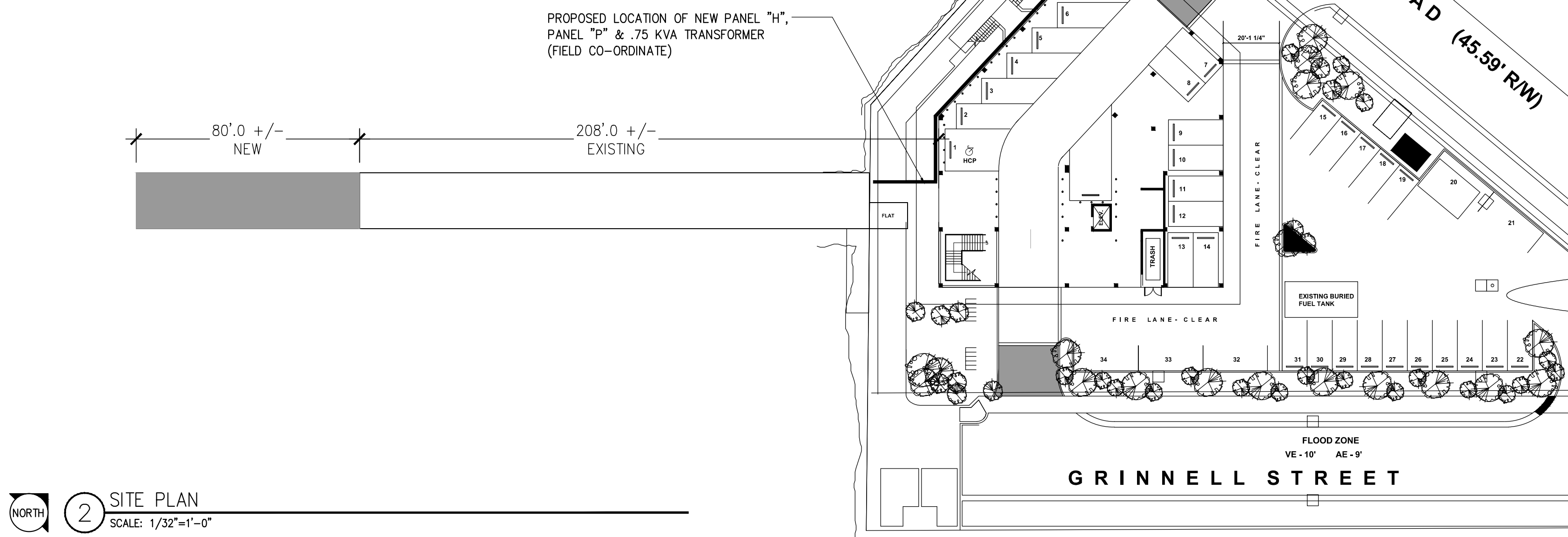


POWER PEDESTAL MARINA POWER - MODEL #POMFS 12 UTILITY PEDESAL OR EQUAL "WHITE" WITH - 100 AMP BRK & 50 AMP BRK AT EACH SIDE & RECEPTICALS HOSE BIB WITH BACKFLOWS BOTH SIDES PROVIDE SHOP DRAWING OF SLEEVE PENETRATIONS AT SLAB

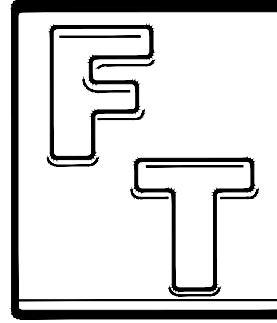
LIGHT FIXTURE SCHEDULE:

MARK	FIXTURE TYPE	MANUFACTURER/MODEL #	COMMENTS
DL	POLE LIGHT: WHATLEY DECORATIVE LAMP POST POLE TS45 13'-0", DECORATIVE BASE: D21M, AB, BLK, O.D. 4", TENON 40, SLA17-2 (4" POLE), UCM-STR, UNIVERSE COLLECTION MEDIUM LED-UCM: 1, MODEL-UCM, 2, HOOD-STR, 3, DISTRIBUTION-15-32LED, 4, COLOR TEMP-35K, 5, LUMEN PACKAGE-48 WATTS, 7, OPTIONS-FTG, 9, VOLTAGE-120-277		DOCK GENERAL LIGHTING TO MATCH EXISTING CITY PIER POLE LIGHTING
B	BEACHSIDE LIGHTING L-012F-15WX-35WATT	5 12VOLT TRANSFORMERS GLP-1000-TP	MATCH EXISTING LIGHT FIXTURES

KEY WEST HARBOR



1 ELECTRICAL PLAN  
SCALE: 3/16"=1'-0"



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OWNER/CLIENT:

PIKE ARCHITECTS  
KEY WEST, FL

PROJECT/TENANT:

KEY WEST BIGHT FERRY TERMINAL  
100 GRINNELL STREET  
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ENGINEERING SEAL:

CONSULTANT:

CONSULTANT:

CONSULTANT:

REVISIONS

NO	DATE	DESCRIPTION	BY

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DRAWN BY: TD

DATE: 14 SEPTEMBER 2016

CHECKED BY: TC

PROJECT NO.: BIGHT FERRY

SCALE:

PROPOSAL NO.:

FLOOR: N/A

SHEET NAME

ELECTRICAL PLAN

SHEET NUMBER

E-1



ELECTRICAL CONSTRUCTION NOTES

1.

ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), LATEST EDITION, AND APPLICABLE STATE AND LOCAL ORDINANCES. EACH PIECE OF ELECTRICAL EQUIPMENT INSTALLED SHALL BEAR A U.L. LABEL. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) LATEST EDITION.
2.

THE ELECTRICAL CONTRACTOR SHALL ARRANGE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, ETC., AND CARRY ALL INSURANCE AS REQUIRED BY LAW PRIOR TO STARTING CONSTRUCTION.
3.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, TRANSPORTATION, RIGGING, TOOLS, STORAGE, ETC., FOR ALL WORK INDICATED AND REQUIRED FOR A COMPLETE INSTALLATION.
4.

THE ELECTRICAL WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WRING. WORKMANSHIP SHALL BE THE HIGHEST QUALITY AS ESTABLISHED BY TRADE STANDARDS.
5.

ELECTRICAL CONTRACTOR SHALL KEEP A MASTER SET OF BLUE LINES THAT ARE TO BE MARKED UP TO REFLECT "AS BUILT" CONDITIONS ON A DAILY BASIS. THESE "AS BUILT" MARK UPS MAY BE REVIEWED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE AT THEIR REQUEST WITHOUT PRIOR NOTIFICATION. THESE "AS BUILT" MARK UPS WILL BE REVIEWED BY THE ENGINEER AND TURNED OVER TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
6.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATION WITH THE LOCAL BUILDING DEPARTMENT AND INSPECTION PERSONNEL TO REVIEW CONTRACT DOCUMENTS PRIOR TO INSTALLATION.
7.

THE OWNER WILL NOT BE HELD LIABLE FOR FIELD CHANGES THAT ARISE FROM CONTRACTOR ERROR OR OMISSION OF MATERIALS OR WORKMANSHIP IN WORK PERFORMANCE.
8.

THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE LOCAL POWER COMPANY FOR SERVICE AND SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND THE PLACEMENT LOCATION OF THE ELECTRICAL SERVICE AND EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PAY ALL NECESSARY CHARGES TO THE POWER COMPANY PRIOR TO CONSTRUCTION.
9.

ALL ELECTRICAL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.
10.

IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. CO-ORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES, (PLUMBING, HVAC, ETC.) SO AS NOT TO CONFLICT IN LOCATIONS OR PERFORMANCE OF OTHER SYSTEMS.
11.

NECESSARY, OBVIOUSLY REQUIRED ELECTRICAL ITEMS THAT ARE NOT SHOWN ON THE DRAWINGS, DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO INSTALL A COMPLETE AND SAFE ELECTRICAL SYSTEM.
12.

THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE WITH OTHER TRADES SO THAT INTERFERENCE BETWEEN CONDUITS, RACEWAYS, DUCTS, PIPING AND STRUCTURAL MEMBERS WILL BE AVOIDED.
13.

THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL WIRING IN ACCORDANCE WITH THE WIRING DIAGRAMS FOR POWER AND CONTROL OF ALL AIR CONDITIONING, HEATING AND VENTILATING EQUIPMENT AS PROVIDED BY THE HVAC CONTRACTOR.
14.

WIRE AND CABLE SHALL BE 600 VOLT MINIMUM AWG. #12. ALL WIRING SHALL BE TYPE TW, THN OR THHN AS NECESSARY TO MEET ALL APPLICABLE CODES.
15.

ALL WIRE AND CABLE SHALL BE IN A CONDUIT, MINIMUM SIZE 1/2" WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC. ALL SERVICE AND PANELBOARD FEEDER CONDUITS, CONDUITS IN OR BELOW FLOOR, IN DAMP AND WET LOCATIONS, IN CONCRETE AND LARGER THAN TWO INCHES SHALL BE RIGID GALVANIZED STEEL.  
  
ALL CONDUCTORS, UNLESS OTHERWISE NOTED, SHALL BE COPPER RUN IN APPROVED METAL RACEWAY. METAL RACEWAY PENETRATING FLOORS AND FIRE RATED PARTITIONS SHALL BE SEALED AIR TIGHT WITH MATERIAL RATED EQUAL TO THE PENETRATED MATERIAL.  
  
FURNISH AND INSTALL ALL BRANCH CIRCUITS. CIRCUITS SHALL BE #12 WIRE IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. THESE ARE MINIMUM WIRE AND CONDUIT SIZES. ALL WIRE SHALL BE COPPER, NO ALUMINUM CONDUCTORS WILL BE PERMITTED.
16.

ALL NEW RACEWAYS / CONDUITS SHALL BE METALLIC MINIMUM SIZE 1/2"; SUPPORTED AT INTERVALS NOT TO EXCEED EIGHT (8) FEET; ALL FITTINGS SHALL BE COMPRESSION TYPE, NO SET SCREW TYPE FITTINGS WILL BE PERMITTED.
17.

IN NO CASE MAY EMT OR FLEXIBLE CONDUIT BE RUN FROM FIXTURE TO FIXTURE WITHOUT THE USE OF OUTLET BOXES.
18.

FLEXIBLE CONDUIT CAN ONLY BE USED FOR SHORT (MAXIMUM SIX FEET) FINAL CONNECTIONS TO INTERIOR LIGHTING FIXTURES AND EQUIPMENT.
19.

THE ELECTRICAL CONTRACTOR SHALL FOLLOW THE SAME COLOR CODE IDENTIFICATION FOR EACH PHASE THROUGHOUT THE SYSTEM FROM SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITS.
20.

ALL SLAB OR ROOF PENETRATIONS SHALL BE WITH APPROVED FIRE RATED AND SMOKE BARRIER FITTINGS. PROVIDE ACCESSORIES (PITCH, POCKETS, CONCRETE, ETC.) AS REQUIRED.
21.

ALL CONDUITS SHALL BE RUN CONCEALED WHERE POSSIBLE. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND /OR PERPENDICULAR TO BUILDING CONSTRUCTION.
22.

CONDUIT MAY NOT BE RUN IN DUCTWORK.
23.

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 3/4" EMPTY CONDUIT FROM EACH TELEPHONE OUTLET TO THE OWNER'S TELEPHONE BOARD, WITH PULL WIRE. PROVIDE ALL REQUIRED CONDUIT FROM OWNER'S TELEPHONE BOARD TO BUILDING'S TELEPHONE ROOM, PROVIDE PULL BOXES AND PULL WIRE AS REQUIRED. VERIFY EXACT LOCATION OF EXISTING TELEPHONE SERVICE AND CONDUITS. CO-ORDINATE ALL WORK WITH OTHER TRADES AND TELEPHONE COMPANY.
24.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, FITTINGS, PULL WIRE, ETC., REQUIRED FOR ALL MISCELLANEOUS SYSTEMS PER OWNER'S REQUIREMENTS. CO-ORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER.
25.

ALL COMMUNICATION AND CONTROL WIRING SHALL BE IN CONDUIT.
26.

FURNISH AND INSTALL PANELBOARDS OF AMPACITIES SHOWN ON PLANS. PANELS SHALL BE CIRCUIT BREAKER TYPE, WITH MAIN LUGS AND BRANCH CIRCUIT BREAKERS AS SCHEDULED. ALL ELECTRICAL PANELS AND EQUIPMENT SHALL BE U.L. LISTED AND APPROVED FOR SUCH USE. PANELS SHALL BE BOLT-ON TYPE AS MANUFACTURED BY SQUARE D OR APPROVED EQUAL.
27.

ALL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ALL RACEWAYS, BRANCH CIRCUITS & FEEDERS, PER LOCAL ELECTRICAL CODES AND THE NEC.
28.

THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE ALL RECEPTACLE AND OUTLET LOCATIONS WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR BEFORE ROUGH IN.
29.

ALL LIGHTING FIXTURES SHALL BE SELECTED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (LIGHTING FIXTURES INDICATED ON DRAWINGS AND SCHEDULES ARE FOR REFERENCE ONLY. FIXTURES OF EQUAL QUALITY MAY BE USED AS DIRECTED.)
30.

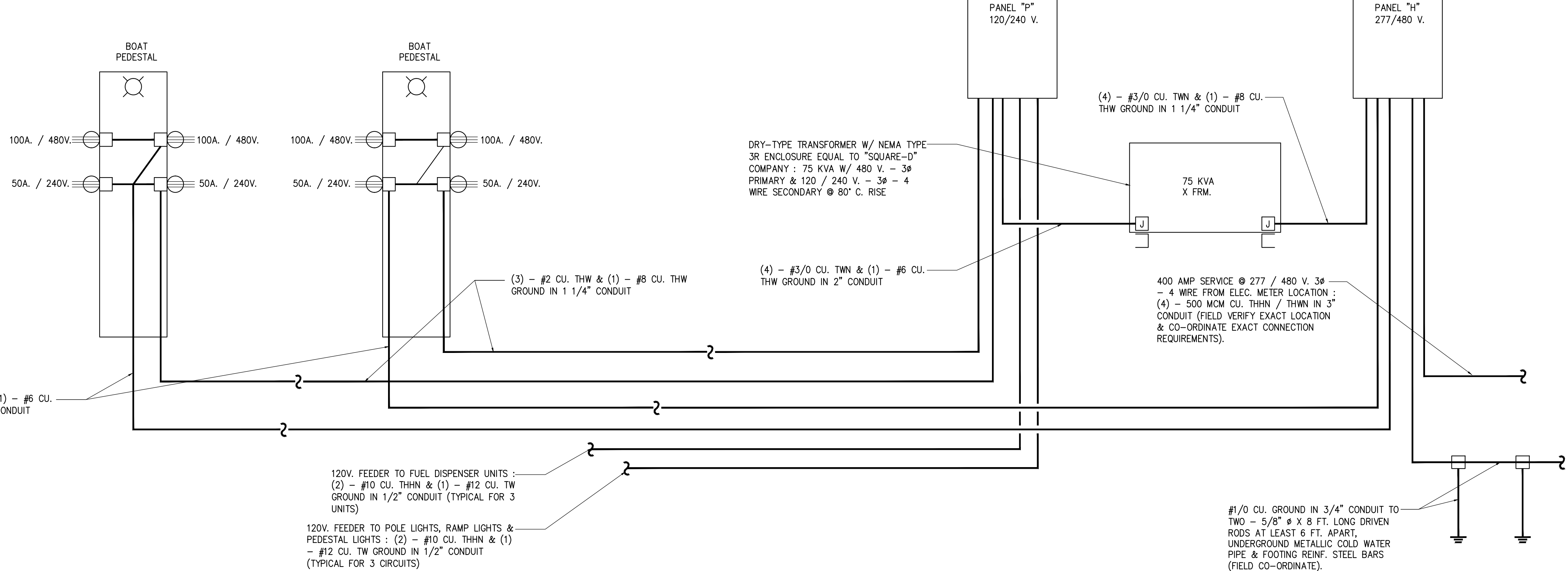
ALL TEMPORARY ELECTRICAL SERVICE REQUIRED FOR CONSTRUCTION SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. FOLLOWING CONSTRUCTION, ALL TEMPORARY WIRING AND EQUIPMENT SHALL BE REMOVED WHEN DIRECTED BY THE GENERAL CONTRACTOR. ELECTRIC OUTLETS, CORDS, LIGHTS, LIGHTING LEVELS, ETC., SHALL CONFORM TO O.S.H.A AND LOCAL ORDINANCES.
31.

ALL ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF AND ALL CONDUIT EXPOSED TO WEATHER SHALL BE HEAVY WALL GALVANIZED STEEL.
32.

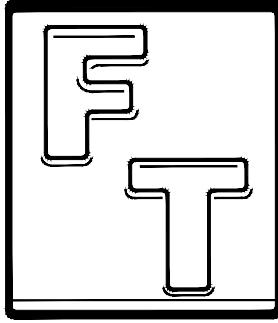
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DESIGNATION		PANELBOARD SCHEDULE		AMPERE RATING		MOUNTING	
11 H		VOLTAGE		400		SURFACE	
A.I.C. 22,000		240/120		MAIN LUGS ONLY		FLUSH	
		208/120		MAIN CIRCUIT BREAKER			
LOAD SERVICED		LOADS		LOAD SERVICED			
BOAT RECEPT'S.		1 1200		100 2 75 KVA X FRM.			
11		3		4 1/2 PANEL "P"			
11		5		6			
BOAT RECEPT'S.		7 1200		8 SPACE			
11		9		10			
11		11		12			
SPACE		13		14			
		15		16			
		17		18			
		19		20			
		21		22			
		23		24			
		25		26			
		27		28			
		29		30			
ISOLATED GROUND BUS		TOTAL LOAD (A.)		CONNECTED LOAD		DESIGN LOAD (V.A.)	
GROUND BUS		324.6 359.6 260.3		308494			
NEUTRAL BUS							

DESIGNATION		PANELBOARD SCHEDULE		AMPERE RATING		MOUNTING	
11 P		VOLTAGE		200		SURFACE	
A.I.C. 10,000		240/120		MAIN LUGS ONLY		FLUSH	
		208/120		MAIN CIRCUIT BREAKER			
LOAD SERVICED		LOADS		LOAD SERVICED			
BOAT RECEPT'S.		1 1100		20 2 FUEL DISPENSER			
11		3		20 4 FUEL DISPENSER			
BOAT RECEPT'S.		5 1100		20 6 FUEL DISPENSER			
11		7		20 8 DOCK POLE LIGHTS			
SPARE		9 120		20 10 RAMP LIGHTS			
11		11 20		20 12 PEDESTAL LIGHTS			
11		13 20		14 SPACE			
SPACE		15		16			
		17		18			
		19		20			
		21		22			
		23		24			
		25		26			
		27		28			
		29		30			
ISOLATED GROUND BUS		TOTAL LOAD (A.)		CONNECTED LOAD		DESIGN LOAD (V.A.)	
GROUND BUS		172.2 214 93.0		49354			
NEUTRAL BUS							



1 ELECTRICAL RISER DIAGRAM  
SCALE: N.T.S.



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KEY WEST, FL

PROJECT/TENANT:

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CONSULTANT:

REVISIONS			
NO	DATE	DESCRIPTION	BY

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DRAWN BY: TD	DATE: 14 SEPTEMBER 2016
CHECKED BY: TC	PROJECT NO.: BIGHT FERRY
SCALE:	PROPOSAL NO.:
FLOOR: N/A	

SHEET NAME

SCHEDULES &  
RISER DIAGRAMS

SHEET NUMBER

E-2