ST. PETERSBURG MUNICIPAL MARINA
SHIP'S STORE AND DOCKS SC & SX
ELECTRICAL REPAIRS
PROJECT NO. 12062-119

ENGINEERING AND CAPITAL IMPROVEMENTS DEPARTMENT
CITY OF ST. PETERSBURG, FL.

RECORD DRAWING
PLANS INDICATE AS-BUILT CONDITIONS
CONSTRUCTION COMPLETED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND
SPECIFICATIONS.

DATE APPROVED 3-17-2014
ENGINEERING & CAPITAL IMPROVEMENTS DEPARTMENT CITY OF ST. PETERSBURG

"AS-BUILT"

APPROVED FOR BID

DATE

THOMAS B. GIBSON, P.E.
DIRECTOR OF ENGINEERING & CAPITAL IMPROVEMENTS DEPT.

VICINITY MAP
SCALE 1 = 300

ST. PETERSBURG MUNICIPAL MARINA
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DRAWING INDEX
DRAWING No. SHEET No. DESCRIPTION
10880-01 0001 COVER SHEET & INDEX
10880-02 0002 NOTES & HABERDASHERIES
10880-02 0101 GENERAL ARRANGEMENT PLAN
10880-04 0101 PHOTO KEY PLAN
10880-02 0201 PAVEMENT

AS-BUILT

COPY No. ______
DATE: DECEMBER, 2012
DRAWING No. 10880-01
SHEET No. 0000
NOTES:
1. REMOVE EXISTING AND PROVIDE [1] MINERAL CEMENT ENCLOSURES, DISCONNECT SWITCH AND ENCLOSURE AND CIRCUIT BREAKER. REMOVE ALL DUCTS, CONDUIT, ETC. REPLACE WITH MINERAL CEMENT ENCLOSURES. REPLACE DAMAGED CONDUIT WITH BSS CONDUIT OF SAME SIZE.


3. CONTRACTOR SHALL COORDINATE POWER OUTAGE WITH MARINA MANAGER. CONTRACTOR SHALL PROVIDE AND MAINTAIN GENERATOR IDOS FOR DURATION OF OUTAGE. COORDINATE GENERATOR REQUIREMENTS PRIOR TO BEGINNING WORK.
26. CONSTRUCTION EQUIPMENT AND MATERIALS MAY BE STORED ONLY IN THE AREAS DESIGNATED FOR OUTSIDE CONSTRUCTION UNDER CONTRACTORS USAGE. MATERIALS TO BE MANUFACTURED TO THE SOUTHERN FLORIDA REGIONAL SPECIFICATIONS FOR BUILDING MATERIALS.

27. PARKING AT THE MARINA IS LIMITED TO COMMERCIAL, DELIVERY AND EQUIPMENT VEHICLES ONLY. CONTRACTOR'S CONSTRUCTION EQUIPMENT IS NOT PERMITTED TO APPLY. THE CONTRACT DOCUMENTS WITH THE OWNER SHALL COVER OVER FOOTSPACES WHERE THE FOOD SERVICES TO AGREEMENT. MEANS OF MEASUREMENT AND PAYMENT SHALL BE THE DISCREPANCY HAS BEEN NOTED ON THE DESIGN, FABRICATION, AND CONSTRUCTION SEQUENCE CONFORM TO THE FLORIDA DEPARTMENT FOR TRANSPORTATION "STANDARD METHODS OF MEASUREMENT", 2004 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS (FIND SPECIFICATIONS). THE CONTRACT DOCUMENTS WITH THE OWNER SHALL COVER OVER.

28. ALL UTILITIES AT ACTIVE SLIPS SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION ACTIVITIES (OR ACCESS TO THE CONSTRUCTION AREA) FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE VICINITY OF CONSTRUCTING ACTIVE SLIPS. CONFLICTS WITH EXISTING UTILITIES.

29. THE DESIGNER WOULD BE REQUIRED TO NOTIFY THE BOATER OR DEBRIS DISPOSAL OF ANY MATERIALS DEPOSITED OUTSIDE THE VICINITY OF CONSTRUCTING ACTIVE SLIPS. CONFLICTS WITH EXISTING UTILITIES.

30. CONTRACTOR SHALL SUBMIT CONSTRUCTION LOADS TO THE ENGINEER FOR APPROVAL. THE ENGINEER SHALL NOTIFY HIS LOCAL AND ALL CONTRACTORS TO NOTIFY THE BOATER OR DEBRIS DISPOSAL OF ANY MATERIALS DEPOSITED OUTSIDE THE VICINITY OF CONSTRUCTING ACTIVE SLIPS. CONFLICTS WITH EXISTING UTILITIES.

31. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DEBRIS AND DUST RESULTING FROM CONSTRUCTION ACTIVITIES (OR ACCESS TO THE CONSTRUCTION AREA) FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE VICINITY OF CONSTRUCTING ACTIVE SLIPS. CONFLICTS WITH EXISTING UTILITIES.

32. DUE TO MARINA'S PROTECTION PLAN, ALL ACTIVITIES ARE TO BE PERFORMED DURING DAYLIGHT HOURS UNLESS APPROVED BY THE DOCKMASTER. IF URGENCY IS THE MAINTENANCE PERMITTED.

33. THE CONTRACTOR SHALL PROVIDE EPOXY BONDING AND LEAVING THE IMMEDIATE VICINITY OF THE SHIP. ALL ACTIVITIES ARE TO BE PERFORMED DURING DAYLIGHT HOURS UNLESS APPROVED BY THE DOCKMASTER. IF URGENCY IS THE MAINTENANCE PERMITTED.

34. ALL CONTRACTOR-PROVIDED EPOXY BONDING SHALL BE APPLIED TO ALL MACHINES LEAVING THE IMMEDIATE VICINITY OF THE SHIP. ALL ACTIVITIES ARE TO BE PERFORMED DURING DAYLIGHT HOURS UNLESS APPROVED BY THE DOCKMASTER. IF URGENCY IS THE MAINTENANCE PERMITTED.

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GENERAL MECHANICAL NOTES

1. REFER TO SHEET XS FOR FULL SITE PLAN.

2. ALL WATER MAIN MATERIALS (PIPE, HYDRANTS, VALVES) ETC. SHALL BE FURNISHED BY THE CONTRACTOR. ALL FIRE HOSE CABINETS, STORAGE, FIRE HOSE RACKS, AND FIRE HOSE HANGERS SHALL BE FURNISHED BY THE CONTRACTOR. PIPE, FITTINGS, AND VALVES SPECIFIED ON SHEETS AND IN THE BILL OF MATERIALS SHALL BE FROM THE MANUFACTURER SPECIFIED, UNLESS OTHERWISE SPECIFIED, OR APPROVED BY THE CITY ENGINEER.

3. ALL WORK SHALL COMPLY WITH THE CITY OF ST. PETERSBURG WATER RESOURCES DEPARTMENT REQUIREMENTS AND DESIGN AND CONSTRUCTION STANDARDS, AS WELL AS ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.

4. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DOCUMENTS, AND OR, SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER.

5. THE CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE NOTICE LOCATION CENTER AND OR, "GOHUNT" (1-800-426-4720) SHALL BE NOTIFIED UP TO 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING THE ENGINEER OF ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, SPECIFICATIONS AND OR, CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE BEGINNING OF CONSTRUCTION.

7. THE CONTRACTOR SHALL FURNISH A LIST OF ALL EXISTING UTILITY LOCATIONS IN THE FIELD TO THE ENGINEER PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION PROVIDED.

8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE COMPLETION OF CONSTRUCTION.

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NOTE:
FOR WATER CIRCULATORS AND STORMWATER IMPROVEMENTS IN ACCORDANCE WITH FDEP PERMIT NO. SE-906324-001, SEE SHEETS C1 AND C3.
NOTES
1. BATHYMETRY IS A SCANNED IMAGE FROM SURVEY BY SURVEYORS AND MAPPERS OF AMERICA, INC. DATED MARCH 10, 1998.
   BATHYMETRY ELEVATIONS ARE IN NGVD29 = +0.58 MLW.

2. COORDINATES SHALL BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO START OF CONSTRUCTION. COORDINATE SYSTEM IS STATE PLANE FLORIDA WEST NAD27 IN FEET.

3. REFER TO SHEET X5 FOR LOCATION AND DESCRIPTION OF TWO NGS BENCHMARKS. REFERENCED BENCHMARKS SHALL PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTING PIER NO. 5 AND IN ACCORDANCE WITH NOTE 2.


5. RECORD DRAWINGS BASED ON AS-BUILTS PREPARED BY MDC, DATED 10/2008.

SCALE: 1"=20'
SHEET 1 OF 1

NEW SIDEWALK (BY CITY)
SB FINGER PIER SECTION

1/2"=1'-0"

DETAIL 1

FORM TWO 2" Holes in slab & third points (tail & pivot) to pins into conc cap. Fill holes w/ grout.
Lab: daily or weekly (9)

DETAIL 2

FORM TWO 2" Holes in slab & third points (tail & pivot) to pins into conc cap. Fill holes w/ grout.
Lab: daily or weekly (9)

DETAIL 3

FORM TWO 2" Holes in slab & third points (tail & pivot) to pins into conc cap. Fill holes w/ grout.
Lab: daily or weekly (9)

DETAIL 5

USE POLYETHYLENE SANS TO LEVEL PANEL
Fill void w/ grout.

PRECAST CONC SLAB

DETAIL 4

PRECAST CONC SLAB

CAP & PILE

CONC PILE

CONC PILE

PRECAST CONC SLAB

PRECAST CONC SLAB

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CONC BAR (Typ)
1. Gate and fence north side of main walkway

2. Main pier section

3. 3-Pile mooring dolphin detail

4. Typical mooring pier detail

Slant cut shall have a typical batter of L vertical to S horizontal.

Timber mooring piling

Pressure salt treated painted wood or fiber stop or finished recycled polymer composite. Hauser stop (off similar size stock), use 3/4" nominal stock with 3/8" galv. plain washers. Bolt heads shall be countersunk as shown.

Wood wrap, see timber pile notes on sheet X2.

Timber pile, top

Pile tip EL +57.00

Pile wrap, see timber pile notes on sheet X2.

3-Pile mooring dolphin detail

Section

Main pier section

Main pier connection to seawall

3/16"=1'-0"
PRESTRESSED CONCRETE PILE NOTES

1. CONCRETE:
   A. fc'=4000 PSI @ 28 DAYS
      fc'=6000 PSI @ 365 DAYS
      fc'=6000 PSI @ 28 DAYS & TIME OF EXPOSURE

2. REINFORCEMENT:
   A. Prestressing steel shall conform to ASTM A416 Grade 270.
   B. Mild steel dowels = ASTM A615, Grade 60.

3. PILE STRESS IN PRESTRESSING STEEL
   AFTER ALL LOSSES = 195 ksi
   ESTIMATED LOSSES = 41 ksi

4. UNIFORMED SURFACE OF PILE SHALL HAVE A SMOOTH TROMELED SURFACE.

5. SEE PLANS & SPECIFICATIONS FOR ESTIMATED PILE TIP & CUT-OFF ELEVATIONS.

6. PILE TYPE & LOCATION ARE SHOWN ON DETAIL DRAWINGS OF FINAL PILE LOCATION. ALL PILES SELECTED SHALL BE FROM THE LIST OF QUALIFIED PRODUCTS LIST, APPROVED BY THE ENGINEER.

7. IN CUTTING OFF CONCRETE PILE, AN ABRASIVE SAW SHALL BE USED TO SCORCH THE CONCRETE AT THE CUT-OFF ELEVATION TO THE APPROXIMATE DEPTH OF REINFORCING STEEL.

8. PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 40 TONS.

9. PILE STINGER IF REQUIRED IF PILE SHALL BE DRIVEN INTO ROCK LAYER. PRECUTTING MAY BE USED TO LOWERLY OF STINGER. PILE DRIVING SHALL BE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
CONCRETE SIDEWALK DETAIL

NOTES:
1. PROVIDE EXPANSION JOINT BETWEEN SIDEWALK AND SEAWALL CAP.
2. SIDEWALK SLOPE SHALL NOT EXCEED 2%. 
3. TRANSITION 8'-0" SIDEWALK TO MATCH 8'-0" MAIN PER MAN PER 12 LINEAR FEET.
4. EXPANSION JOINTS SHALL BE INSTALLED AT .50 MAXIMUM SPACING.
5. EXPANSION JOINTS SHALL CONSIST OF CONTINUOUS 1/2"/6" MINIMAL, BITUMINOUS EXPANSION STRIP.
6. CONTROL JOINTS SHALL BE TRENCHED 2/4" DEEP AND EVERLY SPACED BETWEEN EXPANSION JOINTS, BUT NOT EXCEEDING 6'-0".

VIEW W/ SIDEWALK

TYPICAL SECTION VIEW

CONSTRUCTION JOINT

NOTES:
5. EXPANSION JOINTS SHALL CONSIST OF CONTINUOUS 1/2"/6" MINIMAL, BITUMINOUS EXPANSION STRIP.
6. EXPANSION JOINTS SHALL BE TRENCHED 2/4" DEEP AND EVERLY SPACED BETWEEN EXPANSION JOINTS, BUT NOT EXCEEDING 6'-0".

CONCRETE SIDEWALK DETAIL

1°-0" L-0°

EXPANSION JOINT

NOTES:
1. DESIGN BASED ON WEIGHT OF EARTH AT 120 psf, FRACTION ANGLE OF 35°, AND 2' LIVE SURCHARGE.
2. DESIGN BASED ON 4,000 psf CONCRETE AND SOIL BEARING CAPACITY OF 2000 psf.
3. EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30' ON CENTER AND EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 30' ON CENTER.
4. EACH 4" DEEP JUMPSHALL HAVE A MINIMUM OF 2 CUBIC FEET OF COURSE AGGREGATE WRAPPED IN A 6" MINIMUM OF Bitumen.
5. ALL EXPOSED JOINTS TO HAVE 3/4" CHAMBER.
6. WHEN HEIGHT FROM TOP OF WALL TO FINISHED GRADE, OR SIDE WALLS EXCEEDS 2'-0" A HANDRAIL IS REQUIRED. SEE NOTE DESIGN STANDARD INDEX NO. 870 FOR REQUIREMENTS. HANDRAIL SHALL BE ALUMINUM PER TYPE.

TYPE IV RETAINING WALL DETAIL

SCHEDULE

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NOTE:
1. DESIGN BASED ON WEIGHT OF EARTH AT 120 psf, FRACTION ANGLE OF 35°, AND 2' LIVE SURCHARGE.
2. DESIGN BASED ON 4,000 psf CONCRETE AND SOIL BEARING CAPACITY OF 2000 psf.
3. EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30' ON CENTER AND EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 30' ON CENTER.
4. EACH 4" DEEP JUMPSHALL HAVE A MINIMUM OF 2 CUBIC FEET OF COURSE AGGREGATE WRAPPED IN A 6" MINIMUM OF Bitumen.
5. ALL EXPOSED JOINTS TO HAVE 3/4" CHAMBER.
6. WHEN HEIGHT FROM TOP OF WALL TO FINISHED GRADE, OR SIDE WALLS EXCEEDS 2'-0" A HANDRAIL IS REQUIRED. SEE NOTE DESIGN STANDARD INDEX NO. 870 FOR REQUIREMENTS. HANDRAIL SHALL BE ALUMINUM PER TYPE.

DETAIL PROVIDED BY CITY, COSP STANDARD DRAWING NO. 510-24, MARCH 2008 REVISION.
NOTES:
1. ROUTE ONSHORE LINES TO AVOID EXISTING STRUCTURES.
2. CONTRACTOR TO VERIFY FIELD CONDITIONS AND EXISTING PIPING FOR TIE-IN ARRANGEMENT.
3. FW PIPING SHALL BE PAINTED PVC FOR FW SERVICE.
4. PROVIDE LATERAL CLEARANCE (NO LATERAL MOVEMENT RESTRICTIONS) WITHIN 15 FEET OF NORTH BEND. NO ANCHORS OR LATERAL BRACING SHALL BE LOCATED AT AREAS OF PIPE EXPANSION FOR PIPE STRESS RELIEF.
5. PROVIDE 8 FEET MINIMUM OF TOTAL BRANCH RUN, WITH NO ANCHORS OR LATERAL RESTRICTING SUPPORTS, FROM MAIN LINE TO DECK PENETRATION OR NOTED LATERAL SUPPORTS.
6. LANDSIDE PIPE ALIGNMENT APPROXIMATE AND BASED ON AS-BUILT SUBMITTED BY MMCI IN JUNE, 2008.

FIREWATER PLAN - PIER NO. 5
1"=20'

LEGEND (PARTIAL)

- PILE (FOR REFERENCE)
- H UTILITY PEDESTAL WITH DUAL HOSE BIBBS
- O UTILITY PEDESTAL WITH SINGLE HOSE BIBB
X PIPE ANCHOR
$ POINT OF CONNECTION
- FIRE HOSE CABINET WITH EXTINGUISHER
O REDUCER
$ CHECK VALVE
$ GATE VALVE
- PIPE FLOW DIRECTION

RECORD DRAWINGS

GRADING SHEETS SHOWN BASED ON PVC SHEETS

M O F F A T T & N I C H O L

ENGINEERING DEPARTMENT
17300 GROVE STREET, ST. DREUX, LA 70093-9107

Municipal Marine South Project Phase 2
Firewater Plan - Pier No. 5

NOTES:
1. ROUTE ONSHORE LINES TO AVOID EXISTING STRUCTURES.
2. CONTRACTOR TO VERIFY FIELD CONDITIONS AND EXISTING PIPING FOR TIE-IN ARRANGEMENT.
3. FW PIPING SHALL BE PAINTED PVC FOR FW SERVICE.
4. PROVIDE LATERAL CLEARANCE (NO LATERAL MOVEMENT RESTRICTIONS) WITHIN 15 FEET OF NORTH BEND. NO ANCHORS OR LATERAL BRACING SHALL BE LOCATED AT AREAS OF PIPE EXPANSION FOR PIPE STRESS RELIEF.
5. PROVIDE 8 FEET MINIMUM OF TOTAL BRANCH RUN, WITH NO ANCHORS OR LATERAL RESTRICTING SUPPORTS, FROM MAIN LINE TO DECK PENETRATION OR NOTED LATERAL SUPPORTS.
6. LANDSIDE PIPE ALIGNMENT APPROXIMATE AND BASED ON AS-BUILT SUBMITTED BY MMCI IN JUNE, 2008.

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M O F F A T T & N I C H O L

ENGINEERING DEPARTMENT
17300 GROVE STREET, ST. DREUX, LA 70093-9107

Municipal Marine South Project Phase 2
Firewater Plan - Pier No. 5
NOTES:
1. LOCATION OF HYDRANT AND VALVE TO BE DETERMINED IN FIELD. PROVIDE MINIMUM CLEARANCES OF 7'-6" TO FRONT AND SIDES OF HYDRANT AND 4'-0" TO REAR OF HYDRANT.

2. PROVIDE "BREAK-AWAY" BOLTS AT HYDRANT FLANGE.

3. HYDRANT FLANGE GASKET SHALL BE "FULL FACE" AND OF RUBBER COMPOSITION 1/8" THICK.

4. RISER PIPE SHALL BE PLUMB AND CENTERED ON THE VALVE AND FREE OF DIRT.

5. INSTALL A VALVE KEY EXTENSION ROD TO WITHIN 12" OF FINISHED GRADE.

6. "BREATH-AWAY" ELBOWS AT HYDRANT FLANGE.

7. CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST GATE BOX AND LID TO GRADE DURING EACH PAVING LIFT.

8. H = HARNESSED JOINT (MECHANICAL JOINT W/ DI RETAINER GLAND)

STANDARD FIRE HYDRANT INSTALLATION DETAIL

NOT TO SCALE

TYPICAL DOCK PIPING PLAN DETAIL

NOT TO SCALE

DOCK-MOUNTED FIRE HOSE CABINET DETAIL

NOT TO SCALE
NOTES:
1. ROUTE ONSHORE LINES TO AVOID EXISTING STRUCTURES.
2. CONTRACTOR TO VERIFY FIELD CONDITIONS AND EXISTING PIPING FOR TIE-IN ARRANGEMENT.
3. MAINTAIN A MINIMUM 6" HORIZONTAL CLEARANCE BETWEEN EDGES OF PILE CAP AND PEDESTAL.
4. PVC PIPING SHALL BE PVC.
5. PROVIDE LATERTAL CLEARANCE (NO LATERTAL MOVEMENT RESTRICTIONS) WITHIN 15 FEET OF NORTH BEND. NO ANCHORS OR LATERTAL BRACING SHALL BE LOCATED AT AREAS OF PIPE EXPANSION FOR PIPE STRESS RELIEF.
6. PROVIDE 9 FEET MINIMUM OF TOTAL BRANCH RUN. NO ANCHORS OR LATERTAL RESTRICTING SUPPORTS, FROM MAIN LINE TO DECK PENETRATION OR NOTED LATERTAL SUPPORTS.
7. LANDSIDE PIPE ALIGNMENT APPROXIMATE AND BASED ON AS-BUILT SUBMITTED BY MCII IN JUNE, 2008.
NOTES:
1. PEDESTAL SHOWN ROTATED 90°. SOME PEDESTALS HAVE ONLY ONE HOSE BIBB & SHALL BE PIPED ACCORDINGLY.
2. SAME UTILITY PEDESTAL ALSO INCLUDES POWER, PHONE, AND CATV SERVICES. SEE DETAIL FOR ADDITIONAL CRITERIA.

NOT TO SCALE

UTILITY PEDESTAL DETAIL

PRESSURE TAP TIE-IN DETAIL

NOT TO SCALE
ELECTRICAL PLAN - PIER NO. 5

SCALE: 1" = 20'

NOT TO SCALE

NOTE:
1. DESIGNATES LIGHTING PANEL LPS GROUT NUMBER.
CONDUIT AND FEEDER SCHEDULE

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LIGHTING CONTROL DIAGRAM

NOT IN CONTRACT

ONE LINE DIAGRAM, SWBD, PIER 5

NOT IN CONTRACT

SERVICE FEED TO POWER PEDESTALS SEE CIRCUIT # 1 FOR TYPICAL POWER PEDESTAL CONNECTION

NOTES:

1. Utility Meter
2. Ground Pier Progress Energy Requirements.
3. See Lighting Control Diagram.
4. Transformer Slab supplied and installed by contractor, slab size and installation per utility Gov. Requirements.
**Typical Pier Configuration with Trapeze Hanger**

Not to Scale

Docks Power Pedestal Detail

Not to Scale

**Schedule of Docks Power Pedestals**

<table>
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<th>SYMBOL</th>
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Marina Power Co. Pedestal Catalog Number

- 12-08-BLANK-L-17-TUV-1W-RLF-(1420PCX)-TP
- 12-08-BLANK-L-17-TUV-1W-RLF-(1420PCX)-TP

**Trapeze Hanger Typical**

Not to Scale

Notes:

1. Utilize common Trapeze for Power, Tele and CATV conduits wherever possible. See Plan for Quantity of Conduits.
2. All Hanger Components shall be Type 316 Stainless Steel.
3. Double Trapeze to OA.
4. PM and FM supported on Trapeze hanger starting at OA.

---

**Record Drawings**

Drawn By: [Signature] | Date: [Date]
Reviewed By: [Signature] | Date: [Date]
Approved By: [Signature] | Date: [Date]
NOTES FOR TELEPHONE AND CATV INSTALLATIONS:
1. COORDINATE CONDUIT SWEEP SIZE REQUIREMENTS WITH TELEPHONE AND CATV COMPANY BEFORE INSTALLATION.
2. PROVIDE TEMPORARY CAPS ON ALL OPEN ENDS OF CONDUITS TO KEEP FREE OF WATER AND DEBRIS.
3. COURT ALL MULLION SPACES AND CONDUIT PENETRATION THROUGH SLAB WITH NON-SHINK GROUT.
4. ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL CATV TO PEDESTAL SERVICE DETAIL

1. CONTRACTOR SHALL COORDINATE CONDUIT ENTRY INTO TERMINAL CABINETS WITH TELEPHONE COMPANY. CONDUITS MUST BE TIGHTLY GROUPED TO FIT WITHIN 10 3/4" DIAMETER HOUSING. CONTRACTOR SHALL COORDINATE SIZE AND QUANTITY OF HOLES THAT ARE NEEDED AT EACH LOCATION AND SHALL OBTAIN CITY APPROVAL BEFORE DRILLING IS PERFORMED.
2. PROVIDE 2-1 1/4" SPARE SLEEVES THRU SLAB AT EACH PEDESTAL AND SEAL OFF WITH SILICONE SEALANT.
3. SEE DRAWING NO. E10 "DOCK 5" FOR FEEDERS TO LAND TERMINAL BACKBOARDS.
4. ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL TELEPHONE TO PEDESTAL SERVICE DETAIL

1. TERMINAL CABINET PROVIDED AND INSTALLED BY BRIGHT HOUSE ON DOCK 5.
2. TELEPHONE CABINET PROVIDED AND INSTALLEDBY VEHICLE ON DOCK 5.
3. CONDUIT 2" PVC CONDUIT TO SATTELITE TERMINAL CABINET.
WATER CIRCULATOR PLAN

PIER NO. 1

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

WATER CIRCULATOR PLAN

1'-50'

PIER NO. 2

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

WATER CIRCULATOR PLAN

1'-50'

PIER NO. 3

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

SEE ONE-LINE DIAGRAM

NOTES:

1. WATER CIRCULATORS SHALL BE INSTALLED AT THE ENDS OF PIER NO. 1, 2, 3 IN ACCORDANCE WITH THE T-HD PERMIT. CIRCULATORS SHALL BE 3HP, 208V, 3PH, 50/60HZ, 460V; AKSO MODEL NO. 4460-HI IF OR IMPRESSED DUAL ELECTRIC. SERVICE FOR THE CIRCULATORS SHALL BE A SEPARATE LINE FROM THE DOCK ELECTRICAL SERVICE.

2. REFER TO T-HD PERMIT FOR SPECIFICS REGARDING SUBMITTAL AND INSTALLATION REQUIREMENTS AND DEADLINES.


4. CIRCULATORS CENTERED ON T-HD IN N-S DIRECTION.

PIER NO. | TOP OF DECK ELEVATION | CIRCULATOR ELEVATION | DISTANCE FROM WEST END OF T-HEAD
---|----------------|----------------|------------------
1 | +100.32 COOPD | +90.63 COOPD | 27'
2 | +100.32 COOPD | +90.63 COOPD | 8'
3 | +100.42 COOPD | +91.02 COOPD | 30'

SCALE: 1'-50'
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS. CONFORMITY TO THE CONTRACT DOCUMENTS, WHEN NOT IN CONFLICT WITH THE SPECIFICATIONS, IS MANDATORY.

2. THESE PLANS ARE DRAWN TO AN SCALE OF 1:200, ALTHOUGH OTHER SCALES MAY BE USED AS INDIKATED.

3. CONTRACT DOCUMENTS AND MATERIALS MAY BE STORIED ONLY IN THE AREAS DESIGNATED BY OWNER FOR CONTRACTOR USE.

4. PARKING AT THE SITE IS AT THE CONTRACTOR’S DÉSIGN. DELIVERY AND EQUIPMENT VEHICLES ONLY. CONTRACTOR IS RESPONSIBLE FOR PERSONAL VEHICLES.

5. ALL UTILITIES AT ACTIVITIES SHELTS SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION EXCEPT FOR MAINTENANCE ACTIVITIES. SERVICE CONNECTIONS WILL BE MADE ON MONDAY OF COST OF POWER CONSUMED BY THE OWNER WILL BE PAID BY THE CONTRACTOR.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DESTROYED OUTSIDE THE WORK AREA OR ANY OTHER DISPOSED OF MATERIALS DESTROYED OUTSIDE THE WORK AREA.

7. VOLTAGE CONTROL IS BASED UPON CITY OF PETERSBURG D/E/M DATA (COP) AT ELEVATION OF 270.00 EAGIN, TO 500 MIL.

8. THE FOLLOWING DATA IS PROVIDED CONCERNING TEAL INFORMATION BASED ON DATA FROM ST. PETERSON, EAGIN.

9. ALL SUBGLOBALS DEEMS NOT RESULTING FROM THE CONTRACTORS WORK AND EXISTING FLOORINGS SHALL BE DELETED WITHOUT DETERIORATION OR DAMAGE TO THE MASONRY OR CONCRETE. THE ATTENTION OF THE ENGINEER.

10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING ALL ELEMENTS OF THE PROJECT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS.

11. STEEL CONSTRUCTION IS TO BE PERMITTED TO BE USED IN ANY PORTION OF THE DESIGN, THE STEEL CONSTRUCTION SHALL BE SUPPLEMENTAL, SPECIFICATIONS, CLASS IV, UNLESS OTHERWISE NOTED.

12. MATERIALS AND CONSTRUCTIONS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED.

CONCRETE AND REBAR:

1. All concrete materials, methods, and workmanship shall conform to Section A, and any other "rebar" or "rebars" as used herein, shall be used, except for the following, unless otherwise noted.

2. ALL CONCRETE SHALL BE MIXED, PLACED, AND FINISHED IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CODES, AND ALL ADDITIONAL, SPECIFICATIONS.

3. ALL MATERIALS CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED.

MATERIALS AND CONSTRUCTIONS:

1. All structural materials, methods, and workmanship shall conform to Section A, and any other "structural" as used herein, shall be used, except for the following, unless otherwise noted.

2. ALL STRUCTURAL MILESTONES SHALL BE REACHED IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CODES, AND ALL ADDITIONAL, SPECIFICATIONS.

3. ALL MATERIALS CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED.

4. ALL CONCRETE SHALL BE MIXED, PLACED, AND FINISHED IN CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CODES, AND ALL ADDITIONAL, SPECIFICATIONS.
20. CONTRACTOR SHALL PROVIDE TEMPORARY BLOCK OFF VALUES AT THE END OF EACH WATERFIRE LINC.

21. THE CONTRACTOR MAY USE THE HOSE BIBS AS BACTEROLOGICAL SAMPLING POINTS.

NOTES
This revised design document is subject to change based on the input of others. Issues may arise as to the interpretation of the revised design document. This document is subject to change for any changes for any changes to, or interpretations of, this document. It is the responsibility of the Contractor, owner or any other party furnishing other documents, or the design project, to be aware of any changes or interpretations and to include the changes or interpretations in their work. This document is subject to change and may require re-issuance for any changes. It is the responsibility of the Contractor, owner or any other party furnishing other documents, or the design project, to be aware of any changes.
NORTH DOCKS MAIN PIER DEMOLITION DETAIL

NS FINGER PIER DEMOLITION DETAIL

NC FINGER PIER DEMOLITION DETAIL

NS SECTION

NC SECTION

NOTE:
EXISTING REINFORCEMENT NOT KNOWN.
NOTES:
1. FOR REPAIR SCHEDULE, SEE SHEETS 517 TO 519.
2. WOODEN PILES NOT SHOWN FOR CLARITY.

LEGEND:

REPLACE DECK

REPAIR DECK

NOTE:
ALL SCALE INDICATED PERTAIN TO FULL SIZE DRAWINGS (20"X30")

MUNICIPAL MARINA SOUTH & CENTRAL BASIN
STRUCTURAL REHABILITATION PROJECT NO. 2007-117
STRUCTURAL PLAN NORTH DOLKS SHEET 2 OF 2

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Note: Detailed measurements and specifications provided in the table above.

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**Structural Repair Schedule**

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All scales indicated refer to original drawings. (Refer to).
1. Verify area around and on intermediate fire department connections and fire hose cabinets are clear of brush and debris for quick identification and access.

2. Verify PVC riser pipe is supported by pipe supports at or under the shelf. Use pipe supports at the shelf to contact the frame or wall. All wood on the cabinet to ensure the cabinet does not deform and the access doors remain properly aligned for easy access.

3. Verify all existing piping is properly supported so piping alignment is secure and pipe spares do not exceed that noted on drawings as for the pipe material. If additional pipe supports are required they shall be the stainless steel, U.S. listed or approved by the city. A selecting isolation material shall be installed between pipe and support of dissimilar materials contact.

4. Contractor shall confirm the placement of effective axial restraint devices if none presently exist for a dock section. Contractor shall propose location(s) for engineers review with sufficient flexibility on both sides of fire anchor for thermal expansion and contraction.

5. A valve shall be placed at the fire department connections to increase and decrease pump truck pressure oversupply.

6. Any exposed unshielded fire pipe must be painted if the pipe does not have a stabilizing spat shall be held, armored, or fire and be appropriately for obstacle use.

Sheet Deleted

FROM CONTRACT

Municipal Marina South & Central Basin
Structural Rehabilitation Project No. 07074-112
Firewater Plan South Docks
Sheet 1 of 2

Scale 1"=10'0"
NOTES:

1. EXISTING FM PIPING IN ITS ENTIRETY SHALL BE REMOVED AND REPLACED AT THE NORTH DOCKS. THE FM PIPING SHALL BE REPLACED IN SECTIONS USING FM PIPING IS PREPARED TO BE US AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BID.

2. DOCKS NOT BEING REPLACED AT THE TIME SHALL REMAIN IN SERVICE DURING REPLACEMENT WORK IN THE AREA.

3. PRIOR TO DEMO.NO. OF A PIPING SECTION, ISOLATE I PIPING BY CLOSING NEAREST UPSTREAM VALVE TO THE PIPING TO BE REMOVED AND REPLACED.

4. IF THE EXISTING ISOLATION VALVE IS NOT LOCATED NEAR THE PIPING TO BE REPLACED, THE EXISTING PIPING SHALL BE CUT OFF AT NEAREST ISOLATION DEVICES, AND A DIL. WHET OF CAP SHALL BE ADDED TO THE END OF THE PIPING SECTION TO MAINTAIN SERVICE TO THE DOCKS NOT BEING REPLACED AT THE SAME TIME. THE CAP VALUE OF DEL. SHALL BE POSITIONED AND LOCATED FOR CONTRACTOR'S ACCESS.

5. ADD CAP ATTACHING TO ISOLATION DEVICES, CENTERLINE OF EXISTING ISOLATION VALVE FOR HYDROTESTING, CLEANING, AND BRANCHED EXISTING VALUE IN FM, WITHOUT THE FIRE HOSE ATTACHED, MAY BE LEFT FOR HYDROTESTING.

6. REPLACEMENT FM MAIN AND BRANCH PIPING BELOW DECK SHALL BE PVC, AS NOTED IN GENERAL NOTES (EXCEPT DRY STEEL PIPE W/PROTECTIVE WRAP ABOVE DECKS AND IN FM).

7. A DIL. VALVE WILL TEMPORARILY BE ADDED TO MAINTAIN SERVICE TO DOCKS THAT ARE NOT REMOVED DURING CONSTRUCTION. IT SHALL BE REMOVED PRIOR TO FINAL TIE-IN TO NEW FM PIPING.

8. REMOVE ALL FIRE HOSE CABINETS AND CONTENTS IN BOXES AFTER DOCK STRUCTURE REPLACEMENT. CONNECT ALL BRANCHES TO FM CONNECTION.

9. HOSE CABINETS SHALL BE REMOVED AND REMOVED, WHERE NOTED, ANY FM PIPING COMPONENTS IN THE CABINET MUST BE REPLACED WITH DRY STEEL FM PIPING IN PROTECTIVE WRAP AS DESCRIBED IN THE GENERAL NOTES. CONTRACTOR SHALL INSPECT EVERY FM PIPING COMPONENTS FOR IMPAIRMENTS DUE TO PROBLEMS WITH THE CABINET OR EQUIPMENT IT SHALL BE LEFT TO THE CONTRACTOR'S ATTENTION FOR DISPOSITION. IF CONTRACTOR REQUIRE REPLACEMENT, SEE DWG 915, DETAIL S IN FM PIPING REQUIRED.

10. HIGHEST FM PEAKS PER GENERAL NOTES AND PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.

11. CONTRACTOR SHALL SUPPORT ALL PIPE TO FM, AS NOTED ON DWG 915, DETAIL S. VERIFY FM PIPING IS NOT SUPPORTED BY THE CABINET.

12. WORK IS FM PIPING IS REPLACED, REMOVE EXISTING FIRE Hoses AND SUPPORTS, AND REPLACE WITH SUPPOTS NOTED IN DETAIL S. EXISTING SUPPORTS MAY BE REDUCED ONLY AFTER CITY INSPECTION AND APPROVAL. CONTRACTOR'S RIS K SHALL BE FOR ALL FM SUPPORTS TO BE NEW.
1. Piping shall be removed and replaced at body sections noted for replacement.
2. Docks not being replaced shall remain in service during replacement work in the area.
3. Services shall be blown to all docks downstream of the deck section that is to be replaced near docks NCA and WEC.
4. Temporary pipe supports shall be used to support piping midspan of removed dock section. Maximum pipe span shall be 8 feet for 2" or 6" pipe. Temporary supports shall not interfere with removal and construction work of the section.
5. Prior to deck and structural demolition, isolate FW lines by closing nearest upstream value to FW piping to be removed and/or replaced.
6. If the existing isolation valve is not located near the piping to be replaced, the existing piping shall be cut off in a nearly extant removed, and a new ball valve or cap shall be added to the end of the cut section to maintain service to the docks not being replaced. Ball valve or cap shall be positioned and located for construction access.
7. Add tap fittings on corporation stop downstream of existing isolation valve for hydrotesting, inspection, flushing, and drainage. Existing hose bibs may be used for flushing the line at new connection.
8. Any section of FW piping exposed to atmospheric pressure and containing to provide service during construction shall be desiccated and flushed per general notes and project specifications.
9. Connect new piping to existing piping after completion of deck rehabilitation.
10. Replacement FW piping material shall be in line, as noted in the project notes. Copper piping shall be used for hose bib branch lines going through and above the deck.
11. If a ball valve was temporarily added to maintain service to docks that are not removed during construction, it shall be removed prior to final tie-in to new piping.
12. Temporary utility pedestal base in kind. After dock structure replacement, connect FW lines to hose bib connection.
13. Utility pedestal shall be removed and reinstated, note contractor shall inspect pedestal. If contractor notes an unusual feature or problem with the pedestal or equipment, it shall be brought to the engineer's attention for disposition.
14. Hydrotest, desiccated and flushed FW lines per general notes and project specifications prior to placing in service.
15. Contractor shall support FW reed to hose bib, as noted in WEC detail 1.
16. Remove existing pipe hangers and supports, and replace with supports noted in details. Existing supports may be reused only after city inspection and approval. Contractor's bid shall be for all pipe supports to be new.
17. Contractor shall confirm the placement of effective rail, fasteners, anchors, if none presently exist for a body section. Contractor shall propose location(s) for engineer's review with sufficient flexibility on body dock for thermal expansion and contraction.
NOTES:

1. PIPING SHALL BE REMOVED AND REPLACED AT DOCK SECTIONS NOTED FOR REPLACEMENT.

2. PRIOR TO DECK AND STRUCTURAL SECTIONS, ISOLATE FUEL LINES BY CLOSING NEAREST UPSTREAM VALVES TO THE PIPING TO BE REMOVED AND/OR REPLACED.

3. IF THE EXISTING ISOLATION VALVE IS NOT LOCATED NEAR THE PIPING TO BE REPLACED, THE EXISTING PIPING SHALL BE CUT ON A NEARBY FUEL REMOVED, AND A BALL VALVE ON CAP SHALL BE ADDED TO THE END OF THE CUT SECTION TO MAINTAIN SERVICE TO THE DOCKS NOT BEING REPLACED. BALL VALVE ON CAP SHALL BE POSITIONED AND LOCATED FOR CONTRACTORS CONVENIENCE.

4. ADD TAP FITTINGS OR CORROSION PROTECTION BOLTS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, DISINFECTION, FLUSHING, AND DRAINAGE. EXISTING HOSE BIBS MAY BE USED FOR FLUSHING THE LINE AFTER DISINFECTION.

5. ANY SECTION OF FUEL PIPING SUBJECT TO ATMOSPHERIC PRESSURE AND CONTINUING TO PROVIDE SERVICE DURING CONSTRUCTION SHALL BE DISINFECTIONED AND FLUSHED PER GENERAL NOTES AND PROJECT SPECIFICATIONS.

6. CONNECT NEW PIPE TO EXISTING PIPE AFTER COMPLETION OF DECK MODIFICATION.

7. REPLACEMENT FUEL PIPING MATERIAL SHALL BE IN KIND AS NOTED IN THE PROJECT NOTES. COPPER PIPE PIPING SHALL BE USED FOR HOSE BIB BRANCHEES GOING THROUGH AND ALONG THE DECK.

8. IF A BALL VALVE WAS TEMPORARILY ADDED TO MAINTAIN SERVICE TO DECKS THAT ARE NOT REMOVED DURING CONSTRUCTION, IT SHALL BE REMOVED PRIOR TO FINAL TRIM TO NEW PIPING.

9. HYDROTEST, DISINFECTION AND FLUSH FUEL LINES PER PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.

10. CONTRACTOR SHALL SUPPORT FUEL RISERS TO HOSE BIBS, AS NOTED ON ENGINEERING DRAWINGS, DETAIL 1.

11. REMOVE EXISTING PIPE HANGERS AND SUPPORTS, AND REPLACE WITH SUPPORTS NOTED IN DETAILS. EXISTING SUPPORTS MAY BE REUSED ONLY AFTER CITY INSPECTION AND APPROVAL. CONTRACTOR'S BID SHAL BE FOR ALL PIPE SUPPORTS TO BE NEW.

12. CONTRACTOR SHALL CONTROL THE PLACEMENT OF EFFECTIVE AXIAL RESTRAINTS/ANCHORS. IF NONE PRESENTLY EXIST FOR A DOCK SECTION, CONTRACTOR SHALL PROVIDE LOCATION/DETAILS FOR ENGINEER'S REVIEW WITH SUITABLE FLEXIBILITY ON BOTH SIDES OF THE ANCHOR FOR THERMAL EXPANSION AND CONTRACTION.

These records were generated in accordance with city codes, and other data furnished by the contractor. These records are not considered final and may be subject to change.

KEY PLAN

SCALE: 1/4" = 1'-0"

NOTE:

ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (CAPX: 3'X3').

MUNICIPAL MARINA SOUTH & CENTRAL BASIN
STRUCTURAL RENOVATION PROJECT NO. 0957A-117
POTABLE WATER PLAN
FUEL DOCK

NOTES:

1. PIPING SHALL BE REMOVED AND REPLACED AT DOCK SECTIONS NOTED FOR REPLACEMENT.

2. PRIOR TO DECK AND STRUCTURAL SECTIONS, ISOLATE FUEL LINES BY CLOSING NEAREST UPSTREAM VALVES TO THE PIPING TO BE REMOVED AND/OR REPLACED.

3. IF THE EXISTING ISOLATION VALVE IS NOT LOCATED NEAR THE PIPING TO BE REPLACED, THE EXISTING PIPING SHALL BE CUT ON A NEARBY FUEL REMOVED, AND A BALL VALVE ON CAP SHALL BE ADDED TO THE END OF THE CUT SECTION TO MAINTAIN SERVICE TO THE DOCKS NOT BEING REPLACED. BALL VALVE ON CAP SHALL BE POSITIONED AND LOCATED FOR CONTRACTORS CONVENIENCE.

4. ADD TAP FITTINGS OR CORROSION PROTECTION BOLTS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, DISINFECTION, FLUSHING, AND DRAINAGE. EXISTING HOSE BIBS MAY BE USED FOR FLUSHING THE LINE AFTER DISINFECTION.

5. ANY SECTION OF FUEL PIPING SUBJECT TO ATMOSPHERIC PRESSURE AND CONTINUING TO PROVIDE SERVICE DURING CONSTRUCTION SHALL BE DISINFECTIONED AND FLUSHED PER GENERAL NOTES AND PROJECT SPECIFICATIONS.

6. CONNECT NEW PIPE TO EXISTING PIPE AFTER COMPLETION OF DECK MODIFICATION.

7. REPLACEMENT FUEL PIPING MATERIAL SHALL BE IN KIND AS NOTED IN THE PROJECT NOTES. COPPER PIPE PIPING SHALL BE USED FOR HOSE BIB BRANCHEES GOING THROUGH AND ALONG THE DECK.

8. IF A BALL VALVE WAS TEMPORARILY ADDED TO MAINTAIN SERVICE TO DECKS THAT ARE NOT REMOVED DURING CONSTRUCTION, IT SHALL BE REMOVED PRIOR TO FINAL TRIM TO NEW PIPING.

9. HYDROTEST, DISINFECTION AND FLUSH FUEL LINES PER PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.

10. CONTRACTOR SHALL SUPPORT FUEL RISERS TO HOSE BIBS, AS NOTED ON ENGINEERING DRAWINGS, DETAIL 1.

11. REMOVE EXISTING PIPE HANGERS AND SUPPORTS, AND REPLACE WITH SUPPORTS NOTED IN DETAILS. EXISTING SUPPORTS MAY BE REUSED ONLY AFTER CITY INSPECTION AND APPROVAL. CONTRACTOR'S BID SHAL BE FOR ALL PIPE SUPPORTS TO BE NEW.

12. CONTRACTOR SHALL CONTROL THE PLACEMENT OF EFFECTIVE AXIAL RESTRAINTS/ANCHORS. IF NONE PRESENTLY EXIST FOR A DOCK SECTION, CONTRACTOR SHALL PROVIDE LOCATION/DETAILS FOR ENGINEER'S REVIEW WITH SUITABLE FLEXIBILITY ON BOTH SIDES OF THE ANCHOR FOR THERMAL EXPANSION AND CONTRACTION.

These records were generated in accordance with city codes, and other data furnished by the contractor. These records are not considered final and may be subject to change.

KEY PLAN

SCALE: 1/4" = 1'-0"

NOTE:

ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (CAPX: 3'X3').

MUNICIPAL MARINA SOUTH & CENTRAL BASIN
STRUCTURAL RENOVATION PROJECT NO. 0957A-117
POTABLE WATER PLAN
FUEL DOCK
SITE PLAN

SCALE: 1"=200'

ABBREVIATION AND SYMBOL LIST:

NEW CONDUIT AND FEEDERS
EXISTING CONDUIT AND NEW FEEDER
EXISTING CONDUIT AND FEEDERS TO REMAIN.

POWER PILLAR, SEE PAGE 13, DETAIL 2, ON SHEET E12. LETTER INDICATES TYPE OF CONDUIT.
CABINET EQUIPMENT ON JUNCTION BOX, DETAIL 3, ON SHEET E13. LETTER INDICATES TYPE OF CABINET.
TELEPHONE TUNNEL CABINET, DETAIL 1, ON SHEET E13. LETTER INDICATES TYPE OF CABINET.
DESCRIPTION NOTE, SEE NOTES ON EACH SHEET.
CABINET TERMINAL CABINET, SEE DETAIL ON SHEET E13.
10' X 16' X 6' NEMA AX J-BOX FOR CATV.
12' X 18' X 8' NEMA AX J-SIDE FOR TELEPHONE.
FEEDER CALL OUT, SEE CONDUIT AND FEEDER SCHEDULE.

LETTERS INDICATE SECTIONS NUMBER INDICATES DETAILS
SHEET NUMBER WHERE DETAIL OR SECTION IS TAKEN
SHEET NUMBER WHERE DETAIL OR SECTION IS DRAWN

ELECTRICAL DRAWING SUPPLEMENTAL ABBREVIATIONS:

E = CONDUIT
O = CONTINUOUS LEAD
R = RACERmitt LEAD
G = HOOK UP WIRE
C = GRAYWIRE
D = J-BOX
S = JUNCTION BOX
L = LIGHT
D = DUAL

GENERAL NOTES:

1. ALL EXISTING CONDUITS NOT RECALLED IN REMOVED AREA SHALL BE REMOVED AND BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
2. ANY EXISTING ELECTRICAL OR MECHANICAL ITEMS WHICH REQUIRE REMOVAL, AND ARE IDENTIFIED TO BE RECALLED, SHALL BE RECONDITIONED AND REINSTALLED AS REQUIRED.
3. ALL EXISTING EQUIPMENT TO BE REMOVED, TEMPORARILY STORED AND REUSED, WHERE APPROPRIATE, SHALL BE CLEARED AND REPAIRED, AS REQUIRED.
4. THESE DRAWINGS SHOW APPROXIMATE LOCATION OF EXISTING EQUIPMENT AND DO NOT NECESSARILY ILLUST RATE THE COMPLETE EXISTING INSTALLATION. EXACT LOCATION SHALL BE VERIFYED IN FIELD BY CONTRACTOR.
5. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WORKING CONDITIONS. CHANGES, ALL THE NECESSARY RELOCATION, RELOCATING, AND/OR REMOVAL OF EXISTING EQUIPMENT, WORKING, ETC., SHALL BE INCLUDED IN THE SCOPE OF THIS CONTRACT.
6. POWER INTERRUPTION ARE TO BE COORDINATED AND SCHEDULED WITH THE DOCK MASTER.
7. ALL EXISTING EQUIPMENT TO BE REMOVED SHALL BE VERIFIED WITH THE DOCK MASTER.
8. CONTRACTOR SHALL EXAMINE CONTRACT DOCUMENTS, WORKING DRAWINGS, EXISTING FACILITIES AND ALL BUIDLING STRUCTURES BEFORE SUBMITTING PROPOSAL. ANY VARIATIONS OF ROUTING AND/OR CONSTRUCTION SHALL BE ANTICIPATED BY THIS CONTRACTOR TO AVOID CONFLICTS WITH OTHER TRADES.
9. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND ALL OTHER CODES OR LOCAL AUTHORITY HAVING JURISDICTION.
10. ALL NEW FEEDERS SHALL BE COORDINATED BETWEEN PANEL, GROUND AND POWER PER REZAS AND/OR SIHEL DETAIL (TERRITORIES) SHALL BE PERMITTED.
GENERAL NOTES FOR FUEL DOCK:

1. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT-CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE MANUFACTURER'S LABEL. ALL AND SHALL BE INSTALLED IN THE MANNER IN WHICH IT IS DESIGNED AND SPECIFIED.

3. ALL EQUIPMENT INSTALLED ON FUEL DOCK SHALL BE WEATHERPROOF AND CORROSION RESISTANT.

4. CONDUCT INSTALLATION AND THE ELECTRICAL EQUIPMENT ON THE FUEL DOCK SHALL COMPLY WITH ARTICLE 300 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) PROVIDE EXPLOSION-PROOF SEAL FITTINGS WHERE REQUIRED.

5. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CIRCUITS AND WIRE WITH A MINIMUM NUMBER OF ENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STANDARDS OF THE INSTALLATION, AND SHALL INSTALL ALL ELECTRICAL CODE REQUIREMENTS. THE ELECTRICAL CONTRACTOR IS FURNISHED WITH ALL PARTS AND MATERIALS, AND DO NOT REQUIRE ANY ADDITIONAL DISCOUNTS.

6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE SECTIONS REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL BUILDING CODE AND ALL LOCAL ORDINANCES.

7. THE FUEL DOCK WIRING SYSTEM SHALL BE DESIGNED TO PROVIDE A RESISTANCE BETWEEN CONDUCTORS TO GROUND.

8. INSTALL CIRCUIT BREAKER AND POWER CABLE FOR FUEL DISPENSER SHOP DRAWING REQUIREMENTS. RE-USING EXISTING CIRCUITS.

FUEL DOCK SYMBOL LIST:

1. CONDUCT UNDERGROUND
2. CONDUCT IN DOCK
3. EXISTING POWER PANELS
4. EXISTING CIRCUIT AND WIRE TO REMAIN

FUEL DOCK PLAN

SECTION A

DOCK SECTION

UTILITY POWER CENTER ELEVATION

PANEL B EXISTING

LOCATION: PLANTER MINIMUM DISTANCE 50' FROM FUEL METER

MOUNTING, CONDUIT

Volts/Phase, 14 AWG

DIST/STAV, 14 AWG

Watts Amps

Phase Current

120/240 V 120/240 V

TOTAL: 16800 VA 2400 VA 150 AMPS

NOTES:
1. CIRCUIT BREAKERS FOR NEW EQUIPMENT.
2. CIRCUIT BREAKER NO CHANGE.
3. CIRCUIT BREAKER NOT TO BE USED.

ELECTRICAL PLANS FUEL DOCK

SCALE: 1"=20'
NOTES:

(1) Disconnect and remove existing cable from deck to be replaced back to nearest catv cabinet. Cut and remove existing conduit at this point.

(2) Connect new conduit to existing conduit after completion of deck rehabilitation. The utility company will install new cables from reinstated power pedestal to uninstrumented catv cabinet.

(3) Disconnect and remove existing telephone cable and conduit back to sub-telephone terminal cabinet.

(4) Remove and install new conduit from reinstated power pedestal to telephone cabinet after completion of deck rehabilitation.

(5) Disconnect and remove existing telephone cable from existing sub-telephone terminal cabinet back to main telephone terminal cabinet. See on sheet C7. Cut and remove conduit at this point.

(6) Connect new conduit to existing conduit after completion of deck rehabilitation. The utility company will install new cables from reinstated cabinet to uninstrumented cabinet.
ELEVATION

TYPICAL TERMINAL CABINET

NOTES:

1. CONTRACTOR SHALL COORDINATE CONDUIT ENTRY INTO TERMINAL CABINETS WITH TELEPHONE COMPANY. CONDUIT MUST BE TIGHTLY SUPPORTED TO ETC WITH 1/4" PVC CEMENT (NOT GLUE) AND COLLECTED AT EACH LOCATION AND SHALL OBTAIN CITY APPROVAL BEFORE INSTALLATION.

2. PROVIDE 2-3/4" Inline SLEEVES THRU SLAB AT EACH PEDESTAL AND SEAL OF NEW SLAB WITH SEALANT.

3. SEE DRAWING NO. 25 "DOCK S" FOR FEEDER TO LAND TERMINAL BACKSPLASH.

4. ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL TELEPHONE TO PEDESTAL SERVICE DETAIL

NOT TO SCALE
NOTES:
1. TANK LOCATIONS SHOWN ARE APPROXIMATE. THE WEST EDGE OF THE NEW DOUBLE CONTAINMENT TRANSITION SUMP IS LOCATED AT DISTANCE TO PREVENT INTERFERENCE WITH EXISTING JUNCTION BOXES (TO REMOVAL IF REASONABLE), SEE DETAIL.
2. CONTRACTOR SHALL ROUTE NEW PUMP DISCHARGE FUEL PIPING ALONG POSTED SERVICE ROUTE, BUT SHALL AVOID INSTALLATION OF THE EXISTING TANKS AND OTHERS ALONG THE PROPOSED GENERAL ROUTE.
3. AS WARRANTED, THE LOCATION OF NEW OR RELOCATED MONITORING Wells SHALL BE DETERMINED BY THE ENGINEER. MONITORING Wells SHALL COMPLY WITH ALL DEP REGULATIONS.
4. WELD NEW SUMP LINES TO EXISTING LINES. LINES ARE TO CONTINUOUSLY SLOPE TOWARDS THE RESPECTIVE FUEL TANK.
5. Rout And RELOCATE EXISTING ELECTRICAL CONDUITS AND JUNCTION BOXES. REPLACE EXISTING FUEL PIPING. IF REQUIRED, LOCATE BURIED JUNCTION BOXES UNDER NEW MAINTENANCE COVER AS APPROVED BY ENGINEER.
6. CONTRACTOR SHALL INSTALL FUEL PIPING NUTS FOR REMOVAL AND SEALING. SEALS AND NUTS TO PASS IF NECESSARY AS AN ECONOMIC ALTERNATIVE TO NEW FUEL PIPING VALVES SHALL BE APPROVED BY ENGINEER. NEW FIRE PIPING MAY BE REQUIRED BY PURCHASER AND TRANSITION PUMP CONNECTIONS TO ACCOMMODATE NEW CAPACITIES AND SUMP LOCATION AND DESIGN.
7. GATE SHALL BE MODIFIED BY OTHERS FOR FUEL TRUCK ACCESS.
# CENTRAL YACHT BASIN MARINA

FOR THE

CITY OF ST. PETERSBURG
FLORIDA

EDWARD F. BRANTLEY, Mayor
J. GERALD MURPHY, Vice Mayor
AULDON B. DUGAN, Councilman
ELI S. JENKINS, Councilman
JACK S. CAREY, Councilman
G. HARRIS GRAHAM, Councilman
FRED H. KENFIELD, Councilman

GEORGE K. ARMES, City Manager
PAUL J. JORGENSEN, City Engineer

RADER AND ASSOCIATES - ENGINEERS & ARCHITECTS
611 FIRST AVENUE, NORTH
ST. PETERSBURG, FLORIDA

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