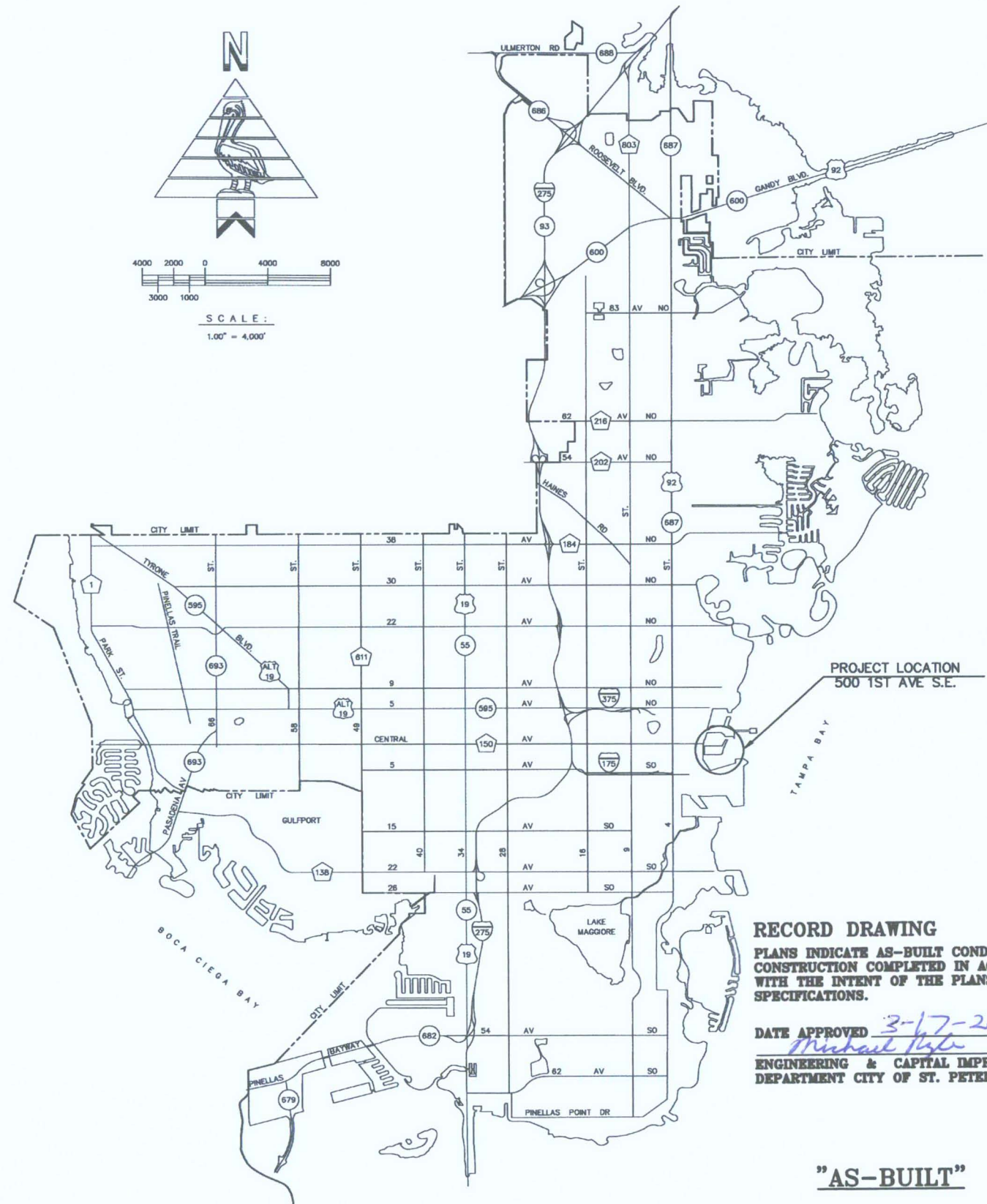
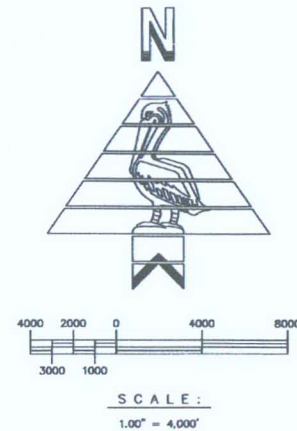


ST. PETERSBURG MUNICIPAL MARINA SHIP'S STORE AND DOCKS SC & SX ELECTRICAL REPAIRS PROJECT NO. 12062-119

DRAWING INDEX		
DRAWING No.	SHEET No.	DESCRIPTION
10890-01	G000	COVER SHEET & INDEX
10890-02	G001	NOTES & ABBREVIATIONS
10890-03	E100	GENERAL ARRANGEMENT PLAN
10890-04	E101	PHOTO KEY PLAN
10890-05	E900	PHOTOS

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
Michael Pyle
ENGINEERING & CAPITAL IMPROVEMENTS
DEPARTMENT CITY OF ST. PETERSBURG

"AS-BUILT"

APPROVED FOR BID

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

4-9-13
DATE



VICINITY MAP
SCALE: 1" = 300'

AS-BUILT

COPY No. _____
DATE: DECEMBER, 2012
DRAWING No. 10890-01
SHEET No. G000

NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

PROJECT BID REQUIREMENT

1. THESE PLANS INDICATE THE GENERAL LOCATIONS OF ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL ITEMS SHOWN AND ALL ITEMS NECESSARY TO SERVE THE VARIOUS ITEMS INCLUDING ELECTRICAL ENCLOSURES AND POWER CONDUIT AND OTHER ITEMS SHOWN ON THE DRAWINGS. ALL ENCLOSURES SHALL BE 3R. INCLUDE BID ALTERNATE, SEPARATE FROM ORIGINAL BID, NEMA 4X RATED ENCLOSURES.

ELECTRICAL SPECIFICATIONS



1. GENERAL CONDITIONS:
 - A. UNDER THIS SECTION THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL APPARATUS, PARTS, MATERIAL, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED. MANUFACTURER'S INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED, UNLESS SUPERSEDED HERE IN.
 - B. "PROVIDE" IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED, INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - C. CONTRACTOR SHALL GIVE REQUIRED NOTICES, OBTAIN NECESSARY PERMITS, AND PAY PERMIT FEES. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT OF THE WORK. MINOR VARIATIONS IN LOCATION OF EQUIPMENT SHALL BE MADE UPON WRITTEN APPROVAL OF THE ENGINEER AT NO ADDITIONAL CHARGE.
 - E. ALL DIMENSIONS AND ELEVATIONS NOTED ARE ENGLISH UNITS UNLESS OTHERWISE NOTED.
 - F. COOPERATE AND COORDINATE THE WORK OF THIS DIVISION WITH OTHER TRADES.
 - G. THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING STANDARDS, CODES, ETC. FORM A PART OF THESE SPECIFICATIONS.
 - (1) ALL STATE AND LOCAL BUILDING CODES.
 - (2) SERVICE RULES AND REGULATIONS OF THE LOCAL ELECTRIC UTILITY COMPANY
 - (3) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
 - (4) ASTM INTERNATIONAL (ASTM).
 - (5) BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI).
 - (6) INTERNATIONAL BUILDING CODE (IBC).
 - (7) INTERNATIONAL FIRE CODES (IFC).
 - (8) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
 - (9) NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
 - (10) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
 - (11) NATIONAL ELECTRICAL CODE (NEC).
 - (12) TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA).
 - (13) UNDERWRITERS LABORATORIES (UL).
 - H. SUBSTANTIAL COMPLETION: UPON COMPLETION OF THE ENTIRE WORK, THE CONTRACTOR SHALL PERFORM SUCH TESTS AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH THE ENGINEER A CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
 - I. WARRANTY: CONTRACTOR SHALL FURNISH WRITTEN WARRANTY STATING THAT THE WORK EXECUTED SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE. DEFECTS DEVELOPING DURING THAT PERIOD SHALL BE CORRECTED WITHOUT COST TO THE OWNER.
 - J. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS. CONTRACTOR SHALL PROVIDE OWNER WITH COMPLETE OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
 - K. A MINIMUM OF SIX (6) COMPLETE SCHEDULES OF MATERIALS AND EQUIPMENT PROPOSED FOR INSTALLATION SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH ARTICLE G-38 OF THE CONTRACT STANDARDS. THE SCHEDULES SHALL INCLUDE CATALOG CUTS, DIAGRAMS AND SUCH OTHER DESCRIPTIVE DATA AND/OR SAMPLES AS MAY BE REQUIRED BY THE ENGINEER.
2. GENERAL MATERIAL REQUIREMENTS:
 - A. DATA AND SAMPLES ON EQUIPMENT AND PRODUCTS INTENDED TO BE USED SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH ARTICLE G-38 OF THE CONTRACT STANDARDS AND SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO PLACING ORDER(S) OF PURCHASE(S).
 - B. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING AGENCY AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS DESIGNED AND APPROVED.
 - C. ALL MATERIAL, INCLUDING PULL BOXES, CONDUIT BODIES, FITTINGS AND MOUNTING HARDWARE INSTALLED OUTSIDE AND ON DOCKS SHALL BE NEMA 3R, UNLESS NOTED OTHERWISE.
 - D. CONTRACTOR SHALL INSPECT MATERIALS DELIVERED TO SITE FOR DAMAGE. UNLOAD AND STORE WITH MINIMUM HANDLING. STORE MATERIALS ON SITE IN ENCLOSURES OR UNDER PROTECTIVE COVERING. STORE PLASTIC PIPING UNDER COVER OUT OF DIRECT SUNLIGHT. DO NOT STORE MATERIALS DIRECTLY ON THE GROUND. KEEP INSIDE OF CONDUITS, FITTINGS AND EQUIPMENT FREE OF DIRT AND DEBRIS. HANDLE CONDUIT, FITTINGS, AND OTHER ACCESSORIES IN SUCH MANNER AS TO ENSURE DELIVERY TO THE DOCKS AND INSTALLATION LOCATION IN A SOUND UNDAMAGED CONDITION.
 - E. SUPPORTS AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR REVIEW AND APPROVAL. A DIELECTRIC ISOLATION SHEET SHALL BE PLACED WHERE DISSIMILAR METALS CONTACT ON THE SUPPORT.
 - F. PANELBOARDS, ENCLOSED CIRCUIT BREAKERS AND SAFETY SWITCHES, WHEN APPLICABLE, SHALL BE MANUFACTURED BY THE SAME MANUFACTURER. WIRING DEVICES SHALL BE MANUFACTURED BY ONE MANUFACTURER.
 - G. EQUIVALENT QUALITY: IN ACCORDANCE WITH SUB-SECTION "EQUIVALENT QUALITY" OF TECHNICAL SPECIFICATION SECTION 1-"GENERAL," SUFFICIENT INFORMATION AND DATA SHALL BE INCLUDED AND SUBMITTED BY THE CONTRACTOR FOR ANY MATERIAL OR EQUIPMENT CONSIDERED BY THE CONTRACTOR AS BEING EQUAL TO THAT SPECIFIED. THE DECISION AS TO WHETHER OR NOT SUCH MATERIAL OR EQUIPMENT IS EQUAL TO THAT SPECIFIED SHALL BE MADE BY THE ENGINEER. REFER TO THIS NOTED SPECIFICATION SUB-SECTION FOR ADDITIONAL REQUIREMENTS.
 - H. PROVIDE ENGRAVED PLASTIC NAMEPLATES ON ALL DISTRIBUTION EQUIPMENT AND PANELS, SECURED BY MEANS OF STAINLESS STEEL RIVETS. TAPES AND ADHESIVES ARE NOT ACCEPTABLE.
 - I. 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.

3. GENERAL INSTALLATION REQUIREMENTS:
 - A. INSTALL MATERIALS AND EQUIPMENT IN FIRST CLASS AND WORKMANLIKE MANNER.
 - B. POWER WIRING AND POWER CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED UNDER "ELECTRICAL" UNLESS OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS. WHEN SUBSTITUTED MOTORS AND/OR EQUIPMENT REQUIRES ELECTRICAL MODIFICATIONS, THE COST OF THE ELECTRICAL MODIFICATIONS AND COORDINATION SHALL BE INCLUDED UNDER THE DIVISION PROVIDING THE MOTOR AND/OR EQUIPMENT.
 - C. THE ELECTRICAL CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER, WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED BUILDING CODE AND ALL LOCAL ORDINANCES.
 - D. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, CONDUIT BEDDING, SUPPORTS, INSTALLATION OF NEW LINE, WALL PENETRATIONS, AND EQUIPMENT PLACEMENTS, TESTING, WARNING TAPE, BACKFILL, SURFACING, LANDSCAPING, ACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH THE LOCAL BUILDING CODE STANDARDS AND REGULATIONS AND SHALL BE COORDINATED WITH THE ENGINEER, LOCAL CODE OFFICIAL AND THE FIRE DEPARTMENTS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH CONCEALING ELECTRICAL WIRING AND FINAL CONNECTIONS ARE REQUIRED BY THE ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION.
 - E. THE ENGINEER OR DESIGN PROFESSIONAL (OWNER'S AUTHORIZED REPRESENTATIVE) SHALL WITNESS TESTING.
 - F. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER (AND/OR PROPERTY OWNERS) SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF SHUTDOWN, DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY THE POINTS OF CONNECTIONS AND PHASED CONSTRUCTION TIE-INS. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.
 - G. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
 - H. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NEC. POWER CONDUITS SHALL HAVE AN INSULATED COPPER, CODE SIZED GROUND WIRE INSTALLED.
 - I. VEHICULAR ACCESS SHALL BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
4. CONDUIT REQUIREMENTS
 - A. ALL CONDUIT SHALL RUN WITH CARE BEING TAKEN TO AVOID INTERFERENCE WITH OTHER PIPING, CONDUIT OR EQUIPMENT. BEFORE JOINTING AND INSTALLATION OF CONDUIT, THOROUGHLY CLEAN INTERIORS OF CONDUIT, AND COMPONENTS. MAINTAIN CLEANLINESS BY CLOSURE OF CONDUIT OPENINGS WITH CAPS OR PLUGS.
 - B. CONDUIT AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
 - (1) RIGID STEEL - ANSI C80 (HOT DIPPED GALVANIZED).
 - C. RIGID CONDUIT FITTINGS SHALL BE THREADED.
 - D. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURES AND SHALL BE SUPPORTED AS SPECIFIED AND IN ACCORDANCE WITH NEC.
 - E. CONDUIT SUPPORTS SHALL BE APPROVED TYPE 316 STAINLESS STEEL WALL BRACKETS, TRAPEZE, STRAP HANGER OR PIPE STRAPS SECURED TO HOLLOW MASONRY WITH TOGGLE BOLTS; TO BRICK AND CONCRETE WITH EXPANSION BOLTS; TO METAL SURFACES WITH MACHINE SCREWS; AND TO WOOD WITH WOOD SCREWS. ANY FORM OF TIE WIRE IS UNACCEPTABLE.
 - F. CONDUIT TERMINATIONS ONE AND ONE-QUARTER AND LARGER AND CONDUIT STUBS SHALL HAVE O.Z. TYPE "B" INSULATING BUSHINGS. RIGID CONDUIT TERMINATIONS ONE INCH AND SMALLER SHALL HAVE O.Z. TYPE "A" INSULATING BUSHINGS.
 - G. CONDUITS PASSING THROUGH BULKHEADS, CONCRETE WALLS, FLOORS OR FOOTINGS AND SLAB ON GRADE SHALL BE MADE WATERTIGHT. PROVIDE PIPE SLEEVES WITH ONE-HALF INCH MINIMUM CLEARANCE AROUND THE CONDUIT AND CAULK WITH ASKUM AND SEALANT.
 - H. EXPOSED CONDUIT SHALL BE PAINTED WITH RUST INHIBITING PAINT.
5. WIRING REQUIREMENTS
 - A. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTENCE BETWEEN CONDUCTORS AND TO GROUND PRIOR TO COMPLETION OF PROJECT.
6. CIRCUIT BREAKERS:
 - A. SUB-FEED BREAKER SHALL NOT BE ACCEPTABLE UNLESS INDICATED.
 - B. BREAKER ARRANGEMENT SHALL BE AS INDICATED.
 - C. PROVIDE CIRCUIT BREAKERS AS NOTED. REPLACE OLD CIRCUIT BREAKERS WITH NEW CIRCUIT BREAKERS OF THE SAME MANUFACTURER, AMPERE, AMPERE INTERRUPTING CAPACITY AND FRAME SIZE.
7. GROUNDING:
 - A. GROUND ALL METAL CONDUIT AND ENCLOSURES TO AN APPROVED GROUND ELECTRODE.
 - B. PROVIDE 3/4" x 20' COPPER GROUND RODS DRIVEN FULL LENGTH INTO GROUND WITH EXOTHERMIC WELDED CONNECTIONS TO GROUND CONDUCTORS ON THE LAND SIDE.

ABBREVIATIONS

2P	TWO POLE, OR AS INDICATED	NEC	NATIONAL ELECTRICAL CODE
A	AMPERES	NIC	NOT IN CONTRACT
AIC	AMPERES INTERRUPTING CAPACITY	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAGE	PB	PULL BOX
CKT	CIRCUIT	PH,#	PHASE
C	CONDUIT	PVC	POLYVINYL CHLORIDE
CB	CIRCUIT BREAKER	RGS	RIGID GALVANIZED STEEL
CO	CONDUIT ONLY	SC	SHORT CIRCUIT
DIA	DIAMETER	SCH	SCHEDULE
DWG	DRAWING	SS	STAINLESS STEEL
EC	EMPTY CONDUIT	TYP	TYPICAL
EX	EXISTING	UL	UNDERWRITERS LABORATORIES
GND	GROUND	UON	UNLESS OTHERWISE NOTED
Hz	CYCLES PER SECOND	V	VOLT
KCMIL	THOUSAND CIRCULAR MILS	W	WATT
KWH	KILOWATT HOUR	XFMR	TRANSFORMER
KVA	KILOVOLT AMPERE		

AS-BUILT

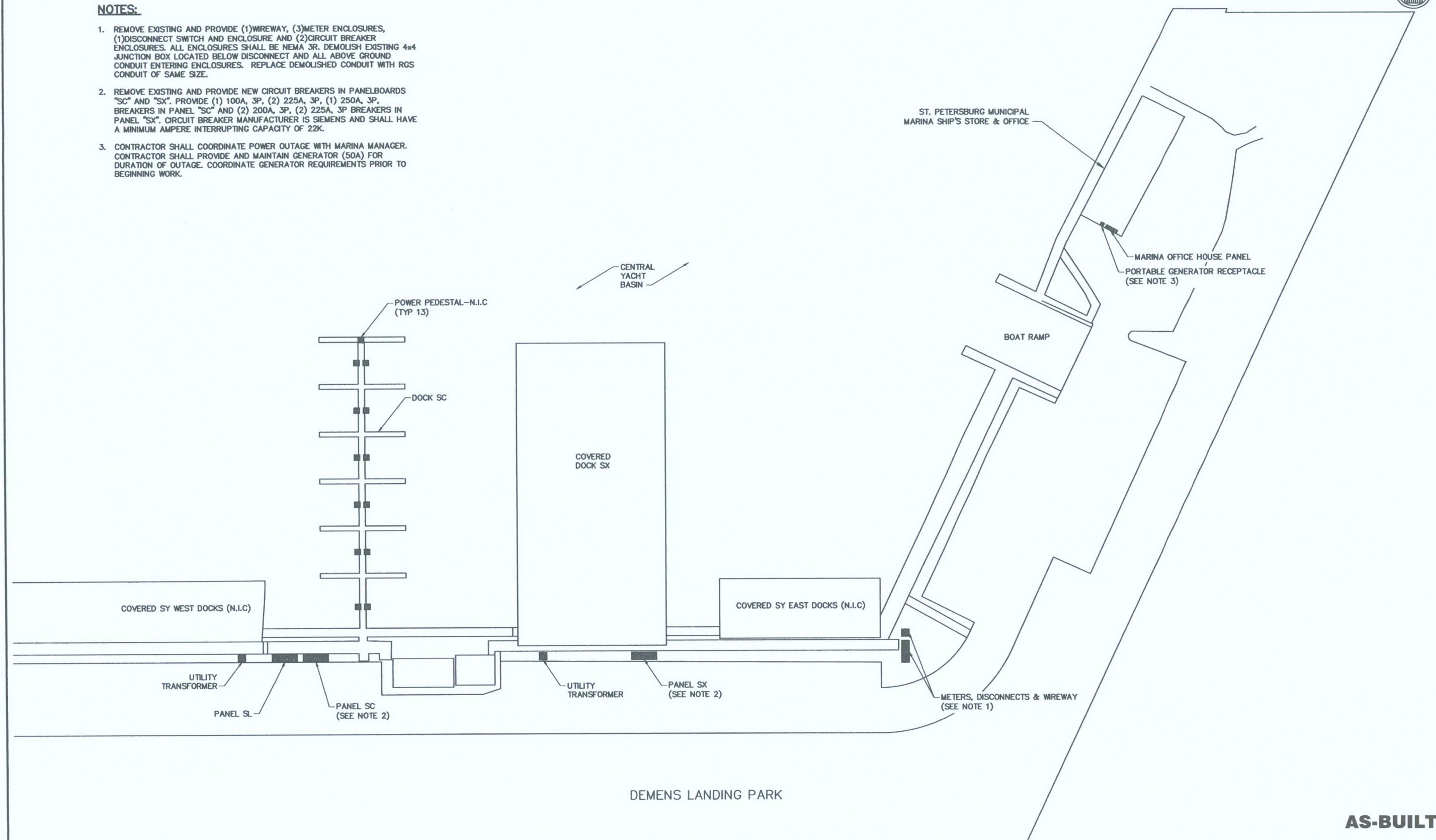
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BY	DATE																	

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NOTES:

1. REMOVE EXISTING AND PROVIDE (1) WIREWAY, (3) METER ENCLOSURES, (1) DISCONNECT SWITCH AND ENCLOSURE AND (2) CIRCUIT BREAKER ENCLOSURES. ALL ENCLOSURES SHALL BE NEMA 3R. DEMOLISH EXISTING 4x4 JUNCTION BOX LOCATED BELOW DISCONNECT AND ALL ABOVE GROUND CONDUIT ENTERING ENCLOSURES. REPLACE DEMOLISHED CONDUIT WITH RGS CONDUIT OF SAME SIZE.
2. REMOVE EXISTING AND PROVIDE NEW CIRCUIT BREAKERS IN PANELBOARDS "SC" AND "SX". PROVIDE (1) 100A, 3P, (2) 225A, 3P, (1) 250A, 3P, BREAKERS IN PANEL "SC" AND (2) 200A, 3P, (2) 225A, 3P BREAKERS IN PANEL "SX". CIRCUIT BREAKER MANUFACTURER IS SIEMENS AND SHALL HAVE A MINIMUM AMPERE INTERRUPTING CAPACITY OF 22K.
3. CONTRACTOR SHALL COORDINATE POWER OUTAGE WITH MARINA MANAGER. CONTRACTOR SHALL PROVIDE AND MAINTAIN GENERATOR (50A) FOR DURATION OF OUTAGE. COORDINATE GENERATOR REQUIREMENTS PRIOR TO BEGINNING WORK.



AS-BUILT

DESIGNED BY: DCS DRAWN BY: AGS CHECKED BY: MNH FIELD BOOK No. _____ BM No. _____ LOCATION: _____	DATE: 02/10 DATE: 02/10 DATE: 02/10 THRU _____ EL. _____	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">BY</th> <th style="width: 50%;">DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	BY	DATE							MOFFATT & NICHOL 1509 W. SWANN AVENUE, SUITE 225 TAMPA, FLORIDA 33606 813-258-8818 LIC: EB-00004877	APPROVED BY: _____ ENGINEERING AND CAPITAL IMPROVEMENTS DEPARTMENT CITY OF ST. PETERSBURG	MUNICIPAL MARINA-SHIP'S STORE AND DOCKS, SC & SX ELECTRICAL REPAIRS PROJECT NO. 12062-119 GENERAL ARRANGEMENT PLAN	DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING DATE: DECEMBER, 2012 SCALE: AS SHOWN DRAWING No.: 10890-03 SHEET No.: E100
BY	DATE													

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REPLACE BROKEN IN-GROUND ELECTRIC PULL BOX TO SHIPS STORE

NOTE:
REFER TO SHEET E900 FOR NOTED PHOTOS.

AS-BUILT

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

DESIGNED BY:	DCS	DATE:	02/10
DRAWN BY:	AGS	DATE:	02/10
CHECKED BY:	MINH	DATE:	02/10
FIELD BOOK No.		PAGE	THRU
BM No.		EL.	
LOCATION:			

REVISIONS		BY	DATE
1	REPLACE ELECTRIC PULL BOX	DT	3/2014

MOFFATT & NICHOL
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-00004877

ENGINEERING AND CAPITAL IMPROVEMENTS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY: _____

MUNICIPAL MARINA—SHIP'S STORE AND DOCKS, SC & SX
ELECTRICAL REPAIRS
PROJECT NO. 12082-119
PHOTO KEY PLAN

DATE:	DECEMBER, 2012
SCALE:	AS SHOWN
DRAWING No.:	10890-04
SHEET No.:	E101



GENERATOR RECEPTACLE, 50A

PHOTO NO. 1

MARINA OFFICE PANEL

ADD NEW SURGE ARRESTOR



ADD NEW SURGE ARRESTOR

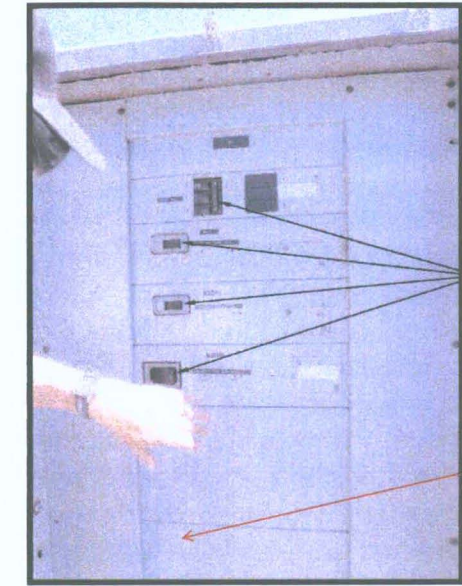
REMOVE EXISTING AND PROVIDE NEW DISCONNECT SWITCH. PROVIDE TYPE "HD", 200A.

DEMOLISH 4X4 BOX

REMOVE EXISTING AND PROVIDE NEW METER ENCLOSURE

PHOTO NO. 3

MARINA OFFICE METER AND DISCONNECT



REMOVE EXISTING AND PROVIDE NEW BREAKERS

ADD NEW SURGE ARRESTOR

PHOTO NO. 5

PANEL SC



REMOVE EXISTING AND PROVIDE NEW WIREWAY TROUGH

REMOVE EXISTING AND PROVIDE NEW IRRIGATION ENCLOSURE

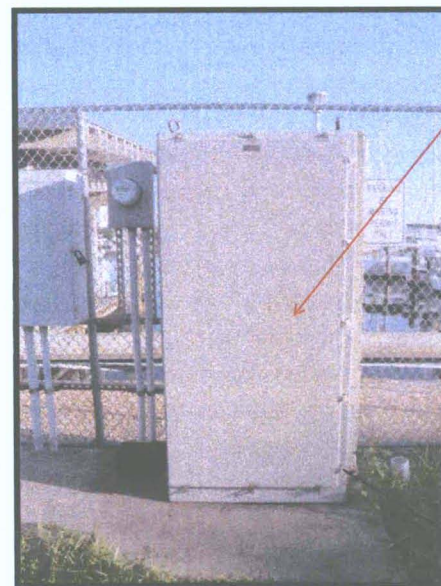
REMOVE EXISTING AND PROVIDE NEW METER ENCLOSURE

REMOVE EXISTING AND PROVIDE NEW PUMPOUT CIRCUIT BREAKER ENCLOSURE

REMOVE EXISTING AND PROVIDE NEW CONDUIT

PHOTO NO. 2

PUMPOUT & IRRIGATION METER & PANEL

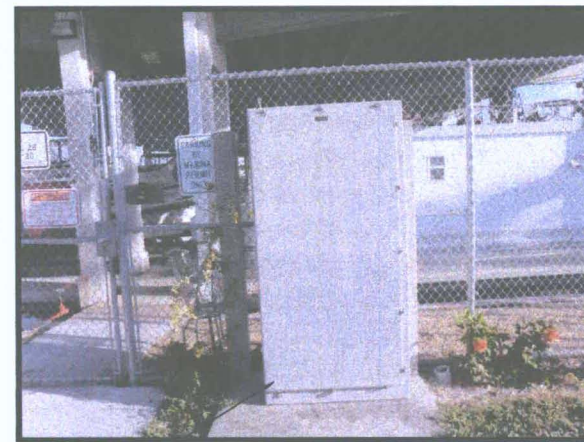


ADD NEW SURGE ARRESTOR

PANEL "SC"

PHOTO NO. 4

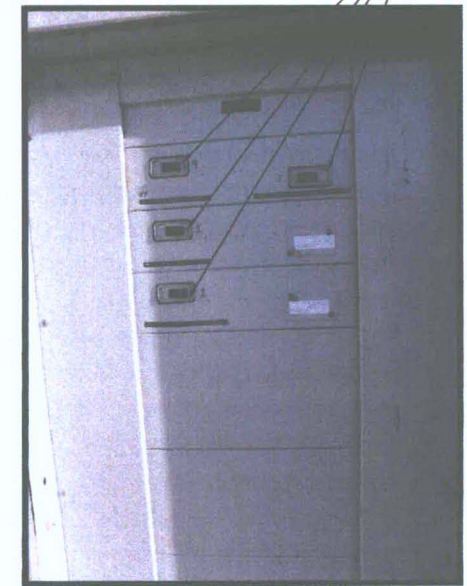
PANEL SC



PANEL "SX"

PHOTO NO. 6

PANEL SX



REMOVE EXISTING AND PROVIDE NEW BREAKERS

PHOTO NO. 7

PANEL SX

AS-BUILT

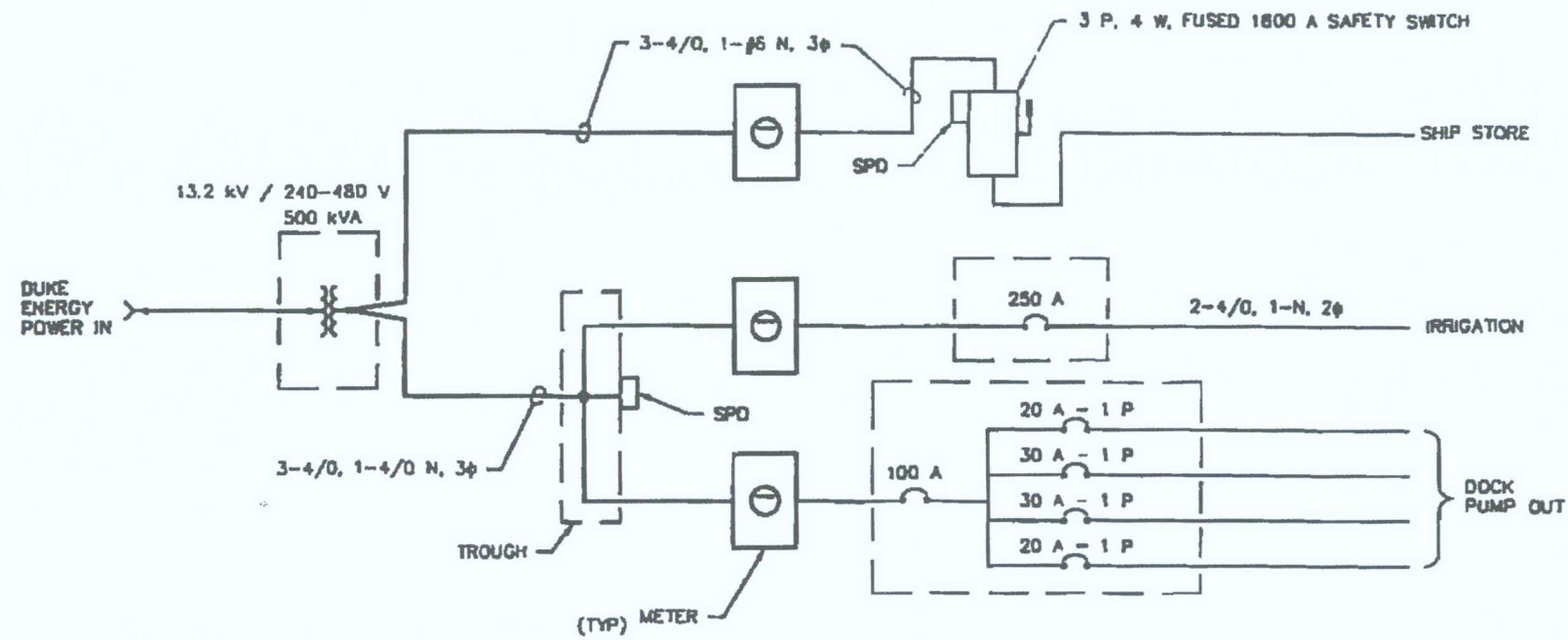
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CHECKED BY:	AGS	DATE:	02/10	ADD NEW SURGE ARRESTOR	DT	03/2014
FIELD BOOK No.	MNH	DATE:	02/10			
Blk No.		PAGE	THRU			
LOCATION:		EL.				

MOFFATT & NICHOL
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-00004877

ENGINEERING AND CAPITAL IMPROVEMENTS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

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

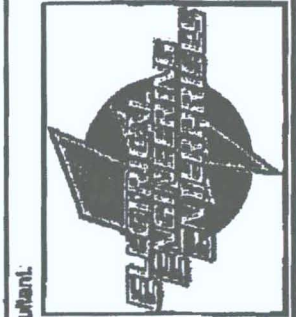
DATE: DECEMBER, 2012
 SCALE: AS SHOWN
 DRAWING No.: 10890-05
 SHEET No.: E900



01 POWER ONE-LINE DIAGRAM
 SCALE: NONE
 METERS DISCONNECTS & WIRING

DRAWING No. 10890-6

AS-BUILT



Consultant:

Project Name:
St. Pete Ships Store & Dock

Project No.: 1113D
 Issue Date: 11.29.2013
 Drawn By: HH
 Checked By: KH

Sheet Title:
 Power One-Line Diagram

Sheet No.:
E1

Keep Clearances
Under Tension

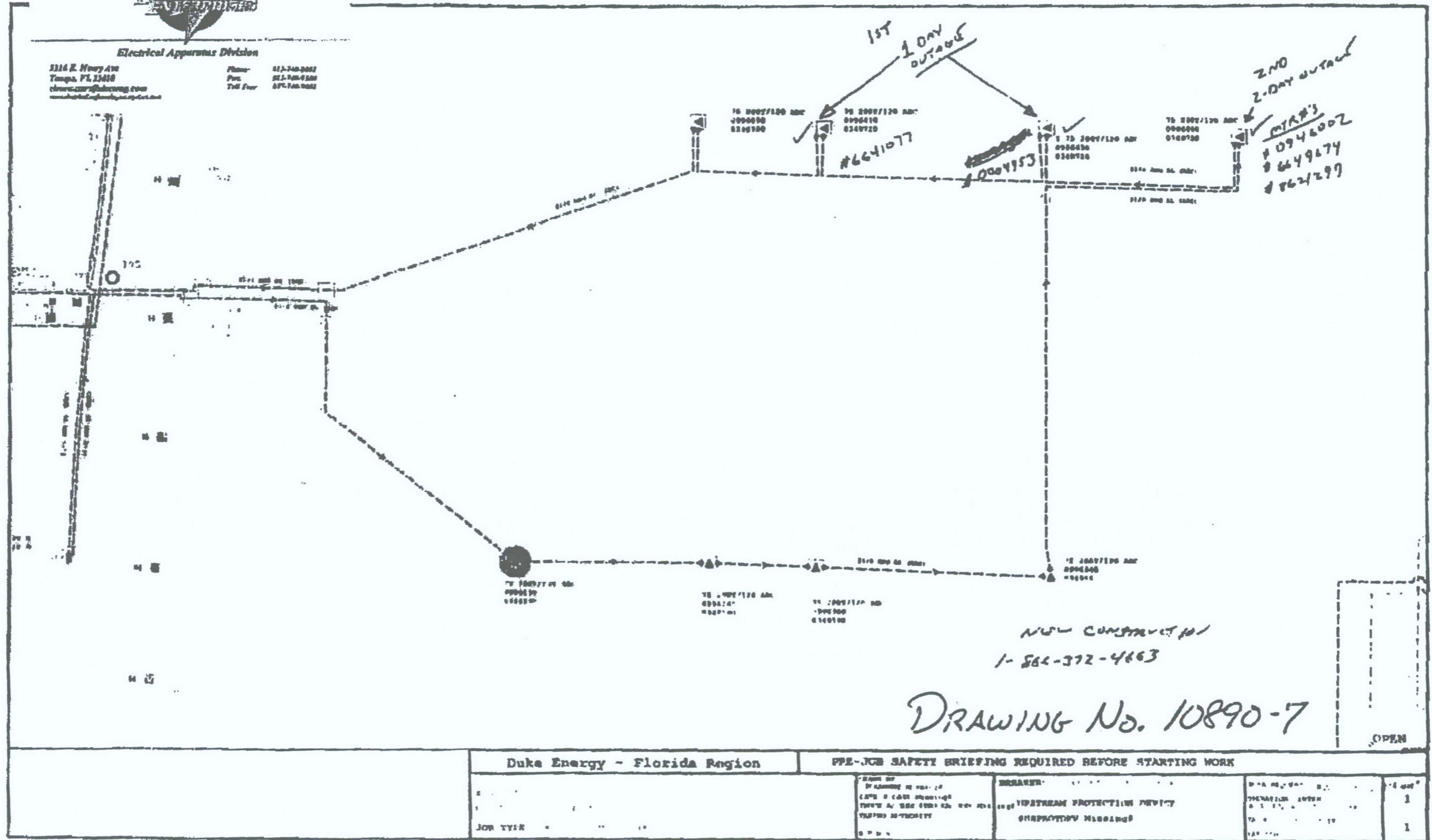


1700 813-343-7000

Electrical Apparatus Division

3116 E. Henry Ave
Tampa, FL 33610
www.dukeenergy.com

Phone: 813-343-7000
Fax: 813-343-7000
Toll Free: 877-343-7000



DRAWING No. 10890-7

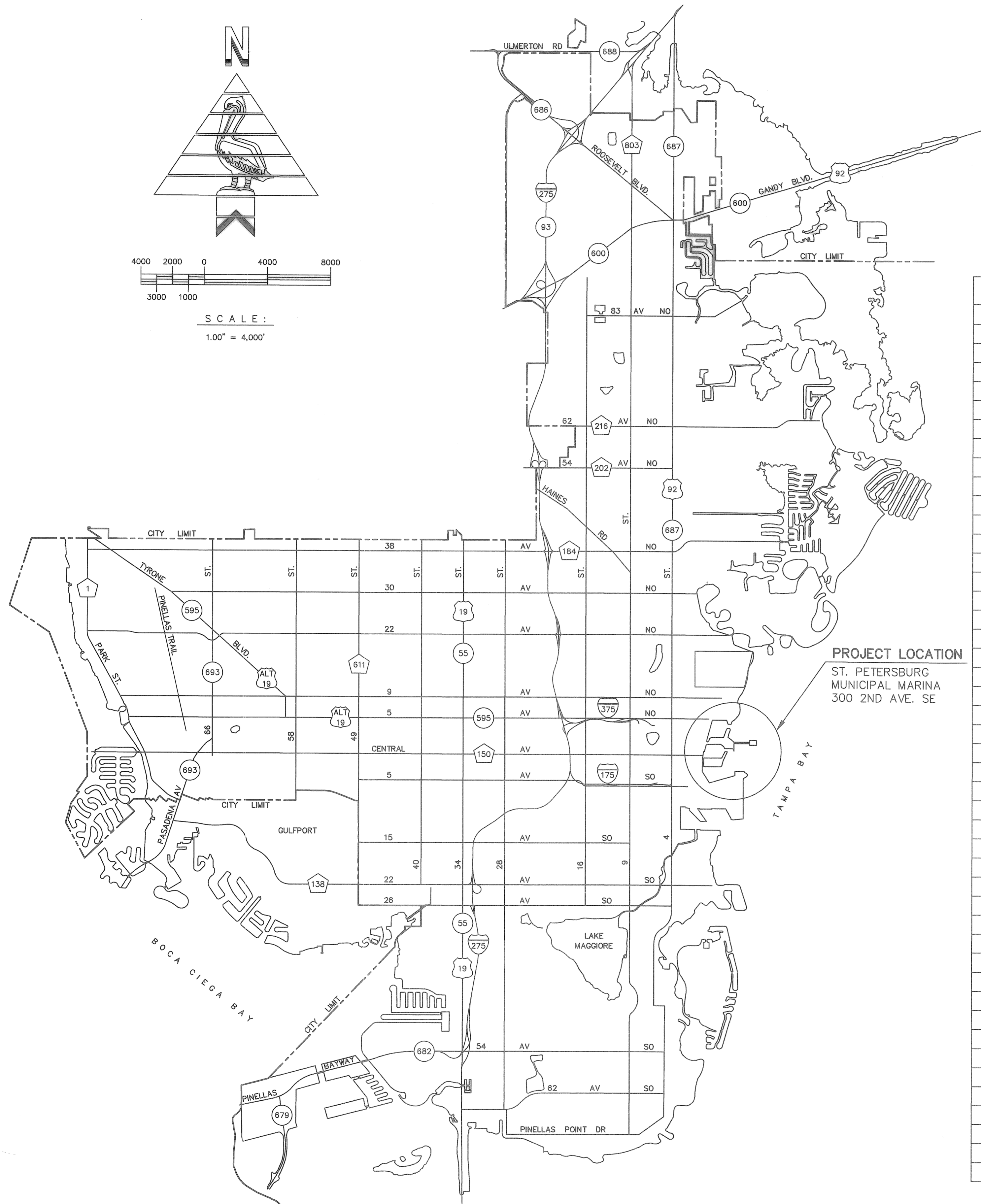
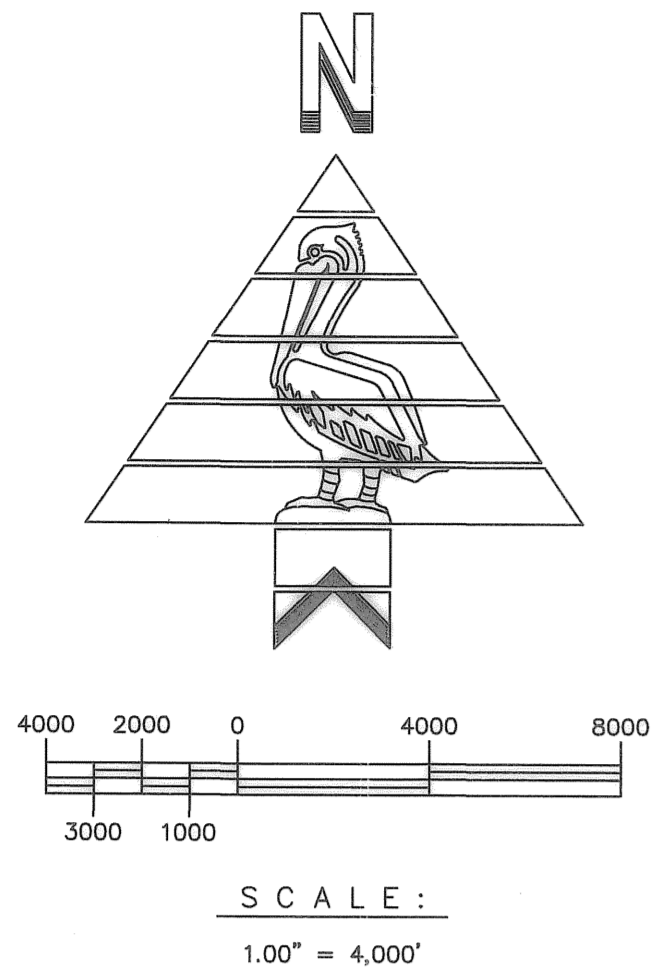
Duke Energy - Florida Region		PPE-JOB SAFETY BRIEFING REQUIRED BEFORE STARTING WORK		
JOB TITLE		DATE OF BRIEFING	BRIEFER	DATE OF BRIEFING
		BY	BY	BY

DUKE ENERGY DISTRIBUTION

AS-BUILT

ST. PETERSBURG MUNICIPAL MARINA, SOUTH YACHT BASIN, PIER 5 CONSTRUCTION

PROJECT NO. 01074-217



PROJECT LOCATION
ST. PETERSBURG
MUNICIPAL MARINA
300 2ND AVE. SE

DRAWING INDEX		
DRAWING No.	SHEET No.	DESCRIPTION
10175-1	X1	COVER SHEET & INDEX
10175-2	X2	GENERAL NOTES & DESIGN CRITERIA SHEET 1 OF 2
10175-3	X3	GENERAL NOTES & DESIGN CRITERIA SHEET 2 OF 2
10175-4	X4	ABBREVIATIONS & LEGEND
10175-5	X5	OVERALL MARINA SITE PLAN
10175-6	D1	DEMOLITION PLAN CENTRAL DOCKS SHEET 1 OF 2 (NIC)
10175-7	D2	DEMOLITION PLAN CENTRAL DOCKS SHEET 2 OF 2 (NIC)
10175-8	D3	DEMOLITION PLAN WEST DOCKS (NIC)
10175-9	D4	DEMOLITION PLAN NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-10	D5	DEMOLITION PLAN NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-11	D6	DEMOLITION PLAN FUEL AND PUMP-OUT DOCKS (NIC)
10175-12	D7	DEMOLITION DETAILS SHEET 1 OF 4 (NIC)
10175-13	D8	DEMOLITION DETAILS SHEET 2 OF 4 (NIC)
10175-14	D9	DEMOLITION DETAILS SHEET 3 OF 4 (NIC)
10175-15	D10	DEMOLITION DETAILS SHEET 4 OF 4 (NIC)
10175-16	S1	STRUCTURAL PLAN SOUTH DOCKS SHEET 1 OF 2 (NIC)
10175-17	S2	STRUCTURAL PLAN SOUTH DOCKS SHEET 2 OF 2 (NIC)
10175-18	S3	STRUCTURAL PLAN PROPOSED PIER NO. 5
10175-19	S4	STRUCTURAL PLAN CENTRAL DOCKS SHEET 1 OF 2 (NIC)
10175-20	S5	STRUCTURAL PLAN CENTRAL DOCKS SHEET 2 OF 2 (NIC)
10175-21	S6	STRUCTURAL PLAN WEST DOCKS (NIC)
10175-22	S7	STRUCTURAL PLAN NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-23	S8	STRUCTURAL PLAN NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-24	S9	STRUCTURAL PLAN FUEL AND PUMP-OUT DOCKS (NIC)
10175-25	G10	DOCK HOUSES PLAN, ELEVATION & SECTIONS (NIC)
10175-26	G11	CENTRAL DOCKS LANDSIDE BUILDINGS PLAN, ELEVATION & SECTIONS (NIC)
10175-27	G12	CENTRAL DOCKS CANOPY SECTIONS (NIC)
10175-28	G13	STRUCTURAL REPAIR SCHEDULE SHEET 1 OF 7 (NIC)
10175-29	G14	STRUCTURAL REPAIR SCHEDULE SHEET 2 OF 7 (NIC)
10175-30	G15	STRUCTURAL REPAIR SCHEDULE SHEET 3 OF 7 (NIC)
10175-31	G16	STRUCTURAL REPAIR SCHEDULE SHEET 4 OF 7 (NIC)
10175-32	G17	STRUCTURAL REPAIR SCHEDULE SHEET 5 OF 7 (NIC)
10175-33	G18	STRUCTURAL REPAIR SCHEDULE SHEET 6 OF 7 (NIC)
10175-34	G19	STRUCTURAL REPAIR SCHEDULE SHEET 7 OF 7 (NIC)
10175-35	G20	CANOPY REPAIR DETAILS (NIC)
10175-36	G21	FUEL AND PUMP-OUT DOCKS DETAILS (NIC)
10175-37	G22	CONCRETE REPAIR DETAILS SHEET 1 OF 2 (NIC)
10175-38	G23	CONCRETE REPAIR DETAILS SHEET 2 OF 2 (NIC)
10175-39	G24	DECK REPLACEMENT DETAILS SHEET 1 OF 2 (NIC)
10175-40	G25	DECK REPLACEMENT DETAILS SHEET 2 OF 2 (NIC)
10175-41	S26	PIER NO. 5 SECTIONS & DETAILS SHEET 1 OF 3
10175-42	S27	PIER NO. 5 SECTIONS & DETAILS SHEET 2 OF 3
10175-43	S28	PIER NO. 5 SECTIONS & DETAILS SHEET 3 OF 3
10175-44	S29	PRESTRESSED CONCRETE PILE DETAILS
10175-45	S30	MISCELLANEOUS DETAILS

DRAWING No.	SHEET No.	DESCRIPTION
10175-46	F1	FIREWATER PLAN SOUTH DOCKS SHEET 1 OF 2 (NIC)
10175-47	F2	FIREWATER PLAN SOUTH DOCKS SHEET 2 OF 2 (NIC)
10175-48	F3	FIREWATER PLAN PIER NO. 5
10175-49	F4	FIREWATER PLAN CENTRAL DOCKS SHEET 1 OF 2 (NIC)
10175-50	F5	FIREWATER PLAN CENTRAL DOCKS SHEET 2 OF 2 (NIC)
10175-51	F6	FIREWATER PLAN WEST DOCKS (NIC)
10175-52	F7	FIREWATER PLAN NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-53	F8	FIREWATER PLAN NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-54	F9	FIREWATER PLAN ALTERNATE 1 CENTRAL DOCKS SHEET 1 OF 2 (NIC)
10175-55	F10	FIREWATER PLAN ALTERNATE 1 CENTRAL DOCKS SHEET 2 OF 2 (NIC)
10175-56	F11	FIREWATER PLAN ALTERNATE 1 WEST DOCKS (NIC)
10175-57	F12	FIREWATER PLAN ALTERNATE 1 NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-58	F13	FIREWATER PLAN ALTERNATE 1 NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-59	F14	FIREWATER DETAILS SHEET 1 OF 2
10175-60	F15	FIREWATER DETAILS SHEET 2 OF 2
10175-61	W1	POTABLE WATER PLAN PIER NO. 5
10175-62	W2	POTABLE WATER PLAN WEST DOCKS (NIC)
10175-63	W3	POTABLE WATER PLAN NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-64	W4	POTABLE WATER PLAN NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-65	W5	POTABLE WATER PLAN FUEL DOCK (NIC)
10175-66	W6	POTABLE WATER DETAILS
10175-67	E1	ELECTRICAL SITE PLAN, ABBREVIATIONS, SYMBOL LIST AND GENERAL NOTES
10175-68	E2	ELECTRICAL PLAN WEST DOCKS (NIC)
10175-69	E3	ELECTRICAL PLAN NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-70	E4	ELECTRICAL PLAN NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-71	E5	ELECTRICAL PLAN PIER NO. 5
10175-72	E6	ELECTRICAL PLAN FUEL DOCK (NIC)
10175-73	E7	COMMUNICATION PLAN WEST DOCKS (NIC)
10175-74	E8	COMMUNICATION PLAN NORTH DOCKS SHEET 1 OF 2 (NIC)
10175-75	E9	COMMUNICATION PLAN NORTH DOCKS SHEET 2 OF 2 (NIC)
10175-76	E10	COMMUNICATION PLAN PIER NO. 5
10175-77	E11	SINGLE LINE DIAGRAM, PANEL AND CONDUIT & FEEDER SCHEDULES
10175-78	E12	ELECTRICAL & COMMUNICATION DETAILS SHEET 1 OF 2
10175-79	E13	ELECTRICAL & COMMUNICATION DETAILS SHEET 2 OF 2
10175-80	E14	FUEL TANKS ELECTRICAL PLAN & DETAILS (NIC)
10175-81	H1	FUEL SYSTEM MECHANICAL NOTES & LEGEND (NIC)
10175-82	H2	FUEL DOCK PLAN & DETAILS (NIC)
10175-83	H3	FUEL TANKS DEMOLITION PLAN & DETAILS (NIC)
10175-84	H4	FUEL TANKS PLAN, SECTION & DETAILS (NIC)
10175-85	H5	FUEL TANKS PLAN, SECTIONS & DETAILS (NIC)
10175-86	C1	WATER CIRCULATOR PLAN
10175-87	C2	WATER CIRCULATOR DETAILS
10175-88	C3	STORMWATER IMPROVEMENTS PLAN & DETAILS (NIC)

NOTE:
DRAWINGS NOTED IN INDEX AS NOT IN CONTRACT (NIC) ARE EXCLUDED FROM THIS PLAN SET.

ENGINEERING 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.

APPROVED FOR BID

RECORD DRAWINGS

DATE APPROVED 8-26-2008
Michael P. Gibson
ENGINEERING CONSTRUCTION DIVISION
ENGINEERING AND STORMWATER DEPARTMENT
CITY OF ST. PETERSBURG

DATE _____
THOMAS B. GIBSON, P.E.
DIRECTOR OF ENGINEERING DEPARTMENT

COPY No. _____
DATE: JULY, 2008
DRAWING No. 10175-01
SHEET No. X1

NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

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GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS, SPECIFICATIONS AND FDOT STANDARD SPECIFICATIONS. FDOT STANDARD SPECIFICATIONS ARE REFERENCED FOR MATERIAL SPECIFICATIONS AND CONSTRUCTION METHODS UNDER DIVISION II "CONSTRUCTION DETAILS", DIVISION I "GENERAL REQUIREMENTS AND COVENANTS" OF THE FDOT STANDARD SPECIFICATIONS DOES NOT APPLY. THE CONTRACT DOCUMENTS WITH THE OWNER SHALL GOVERN OVER FDOT SPECIFICATIONS WHERE THEY ARE NOT IN AGREEMENT. MEANS OF MEASUREMENT AND PAYMENT SHALL BE AS STIPULATED BY THE OWNER AND THE CONTRACT. FDOT STANDARD SPECIFICATIONS REFER TO THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROADWAY AND BRIDGE CONSTRUCTION", 2004 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS. (FDOT SSRBC)
- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
- SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED LANDFILL.
- THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, BOOMS, TARPULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY AS TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIR BORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER. SEE PERMIT CONDITIONS.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
- VERTICAL CONTROL IS BASED UPON CITY OF ST. PETERSBURG DATUM (COSPD) OF ELEVATION 97.00 EQUAL TO 0.00 MSL.
- THE FOLLOWING DATA IS PROVIDED CONCERNING TIDAL INFORMATION BASED ON NOAA STATION 8726520 ST. PETERSBURG, FL:
 MHHW = +98.05 COSPD
 MHW = +97.77 COSPD
 NAVD88 = +97.27 COSPD
 MSL = +97.00 COSPD
 MLW = +96.20 COSPD
 MLLW = +95.81 COSPD
- ALL SUBAQUEOUS DEBRIS NOT RESULTING FROM THE CONTRACTOR'S WORK AND EXISTING FOUNDATIONS UNCOVERED DURING DEMOLITION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING AND COORDINATING ALL ELEMENTS OF THE PROJECT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS. IF ANY MODIFICATIONS ARE REQUIRED IN ANY ELEMENT, THE CONTRACTOR SHALL SUBMIT PROPOSED CHANGES TO THE ENGINEER FOR APPROVAL.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH FIREWATER, POTABLE WATER, AND ELECTRICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO CITY APPROVED SHOP DRAWINGS AND WORK.
- CONSTRUCTION LOADS GREATER THAN 50% OF THE DESIGN LOAD FOR ANY PORTION OF THE STRUCTURE SHALL NOT BE IMPOSED UNTIL THE CONCRETE CYLINDER STRENGTH FOR THOSE MEMBERS AND THEIR CONNECTING POURS HAVE REACHED 80% OF THE 28 DAY DESIGN STRENGTH.
- CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS WITH EXISTING UTILITIES.
- THE CONTRACTOR SHALL REMOVE ALL BARGES, WORK BOATS, STAGING, AND OTHER TEMPORARY PLATFORMS AND/OR AREAS AT THE COMPLETION OF WORK.
- CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING A BID FOR THE PROJECT.
- CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO THE ENGINEER.
- ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONSTRUCTION ACTIVITIES (OR ACCESS TO THE WORK SITE) RELATED TO THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, TO CURRENT STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS AND REPORTING REQUIREMENTS.
- WORK SHALL BE PERFORMED DURING DAYLIGHT HOURS UNLESS APPROVED BY THE CITY.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT ALL CONSTRUCTION/ACTIVITIES MUST CONFORM TO CITY OF ST. PETERSBURG NOISE CODE.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE DOCK MASTER SO AS TO MINIMIZE DISRUPTION OF MARINA OPERATIONS AND BERTHED VESSELS.
- THE CONTRACTOR SHALL NOTIFY AND SOLICIT APPROVAL FROM THE DOCK MASTER A MINIMUM OF 48 HOURS PRIOR TO ANY DISRUPTION OF DOCK ACCESS AND UTILITIES TO AFFECTED BOAT TENANTS.
- CONTRACTOR SHALL COMPLY WITH MANATEE PROTECTION REQUIREMENTS IN THE PERMITS AND CITY'S MANATEE PROTECTION PLAN.
- CONSTRUCTION SEQUENCE SHALL CONFORM TO THE DESIGNATED PHASES. CONTRACTOR SHALL REFER TO SECTION 1 - "GENERAL" OF TECHNICAL SPECIFICATIONS FOR PREFERRED SEQUENCE OF OPERATIONS. CONTRACTOR SHALL PROVIDE SCHEDULE TO OWNER AND SUBMIT UPDATED SCHEDULE TO OWNER WEEKLY.

GENERAL NOTES (CONTD)

- CONSTRUCTION EQUIPMENT AND MATERIALS MAY BE STORED ONLY IN THE AREAS DESIGNATED BY OWNER FOR CONTRACTOR'S USE.
- PARKING AT THE MARINA IS LIMITED TO COMMERCIAL DELIVERY AND EQUIPMENT VEHICLES ONLY. CONTRACTOR EMPLOYEES ARE RESPONSIBLE FOR PERSONAL VEHICLE PARKING.
- ALL UTILITIES AT ACTIVE SLIPS SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION EXCEPT FOR TEMPORARY PERIODS IN WHICH AN INTERRUPTION BETWEEN THE HOURS OF 9:00 A.M. TO 5:00 P.M. WILL BE ALLOWED WHEN PRECEDED BY 48 HOURS NOTICE TO THE DOCKMASTER.
- TEMPORARY ELECTRICAL POWER SHALL BE PROVIDED TO MAINTAIN SERVICE TO SLIPS. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SERVICE AT THE CONTRACTOR'S EXPENSE. THE COST OF POWER CONSUMED BY THE BOAT OWNERS WILL BE PAID BY THE CITY.
- CONTRACTOR SHALL COMPLY WITH COAST GUARD REGULATIONS TO PROTECT AND MAINTAIN ALL BOAT TRAFFIC. CONTRACTOR SHALL NOT INTERFERE WITH NORMAL BOAT TRAFFIC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DEBRIS AND DUST, RESULTING FROM CONSTRUCTION, FROM BOATS AND CARS IN THE VICINITY OF CONSTRUCTION.
- DUE TO MARINA'S CLOSE PROXIMITY TO ALBERT WHITTED AIRPORT, THE CONTRACTOR'S BARGE MOUNTED CRANE(S) (AND ALL OTHER "TALL" EQUIPMENT) SHALL HAVE AN ORANGE/WHITE CHECKERED FLAG FIXED TO THE TOP OF THE CRANE'S BOOM. THE CRANE SHALL ONLY BE PERMITTED TO OPERATE DURING DAYLIGHT HOURS AND ITS BOOM SHALL BE LOWERED DURING EVENING HOURS. THE CONTRACTOR SHALL NOTIFY THE AIRPORT MANAGER, RICHARD LESNIAK (727-893-7657) AT LEAST 3 BUSINESS DAYS PRIOR TO MOBILIZATION.

DESIGN CRITERIA

- DOCKS: UNIFORM LIVE LOAD 50 PSF
 CONCENTRATED LIVE LOAD 650 LB
- PILES: BEARING CAPACITY: 200 TON
 LATERAL LOAD: 6000 LB
- WIND: 50 MPH GUST WITH VESSELS IN PLACE

CONCRETE AND REINFORCING STEEL

- ALL CONCRETE MATERIALS, METHODS, SUBMITALS, AND WORKMANSHIP SHALL CONFORM TO SECTION 346 OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2004 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS, CLASS IV, UNLESS OTHERWISE NOTED ON THE PLANS.
- MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - A. CONCRETE 28 DAY STRENGTH
 - CIP CAPS AND SLABS 5500 PSI
 - B. REINFORCING STEEL
 - REINFORCING STEEL ASTM A615, GRADE 60
 - WELDED WIRE FABRIC ASTM A185
 - REINFORCING STEEL, PANELS ONLY MMFX, 100KSI
- PROVIDE 1" CHAMFERS ON ALL CORNERS AND JOINTS, UNLESS OTHERWISE NOTED.
- DCI CORROSION INHIBITOR, ASTM C494 ADMIXTURE, SHALL BE ADDED AT 3.0 GAL/CY AS MANUFACTURED BY W.R. GRACE & CO. OR APPROVED EQUAL.
- CONTRACTOR SHALL REPAIR ALL SURFACE BLEMISHES IN CONCRETE WITHIN 24 HOURS AFTER FORM REMOVAL.
- ALL CONSTRUCTION JOINTS BETWEEN CAST-IN-PLACE CONCRETE SHALL BE COATED WITH EPOXY BONDING AGENT.
- PROVIDE 3" CONCRETE COVER OVER STEEL UNLESS OTHERWISE NOTED.
- SAWCUT 1/4" DEEP V-GROOVE AT EACH END OF CLOSURE POURS.

STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. ALL WELDING SHALL CONFORM TO AWS D1.1.
- MATERIAL SHALL CONFORM TO THE FOLLOWING, UON:
 - SHAPES, BARS, AND PLATESASTM A 36
 - ANCHOR BOLTSTYPE 316 STAINLESS STEEL
 - ADHESIVE ANCHORSASTM F 593 & ASTM F 594
 - CHANNELSASTM A572 GRADE 50
- ALL MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, ANGLES, INSERTS, PLATES, ETC. SHALL BE ZINC-COATED OR GALVANIZED BY THE HOT-DIPPED PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 123, A 153, OR A 525 GR 90, AS APPLICABLE OR UON, AFTER FABRICATION, UON.
- FIELD TREAT DAMAGED GALVANIZED FINISH AND EXPOSED THREADED SURFACES WITH TWO COATS OF ZINC RICH PAINT CONFORMING TO ASTM A 780.
- ALL TEMPORARY FENCING SHALL BE CHAIN LINK FENCING IN ACCORDANCE WITH STANDARD INDEX NO. 452 OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (JANUARY 2004). OWNER SHALL PROVIDE LIMITS OF FENCING.

CLEATS

- 15" LONG ALUMINUM S-CLEAT WITH TYPE 316 SS 7/16" THRU BOLT WITH PLATE WASHER AND NUT.

TURBIDITY BARRIERS AND TESTING

- TURBIDITY BARRIERS SHALL BE MANUFACTURED IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 103.
- DURING THE MARINA DEMOLITION AND CONSTRUCTION, THE CONTRACTOR SHALL MONITOR THE TURBIDITY LEVELS TO ENSURE THAT STATE WATER QUALITY STANDARDS ARE MAINTAINED AND CONSTRUCTION METHODS ARE IN ACCORDANCE WITH THE PERMITS.
- REPORTING SHALL BE IN ACCORDANCE WITH THE PERMITS.
- THE COST OF ALL PERMIT INDUCED MONITORING REPORTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PROPOSAL.

INSTALLATION OF ANCHOR BOLTS AND ADHESIVE ANCHORS

- INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH FDOT SECTION 416.
- INSTALL ANCHOR BOLTS IN ACCORDANCE WITH FDOT SECTION 460-30.
- ANCHOR EMBEDMENT AND HOLE DIAMETER SHALL BE PER MANUFACTURER'S RECOMMENDATIONS TO DEVELOP 150% OF THE ANCHOR BOLT TENSILE CAPACITY.
- USE A CARBIDE TIP ROTARY DRILL. PERCUSSION ROCK DRILLS SHALL NOT BE PERMITTED.
- PREPARE A TEMPLATE AND DRILL REQUIRED HOLES.
- FOLLOW EPOXY MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION OF THE ANCHORS.
- FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE MIXING AND APPLICATION OF EPOXY.
- TESTING: TESTS WILL BE REQUIRED ON 10% OF EACH TYPE OF ANCHOR. EACH ANCHOR SHALL BE TESTED TO 125% OF THE CAPACITY OF THE ANCHOR IN TENSION.
- CONTRACTOR SHALL SUBMIT TESTING PROCEDURES FOR APPROVAL BY THE ENGINEER. CONTRACTOR SHALL MAINTAIN THE SIZE AND LOCATION OF ALL ANCHORS UNLESS APPROVED BY THE ENGINEER.

PILE DRIVING

- PILE DRIVING PROCEDURES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 455-5 EXCEPT AS AMENDED IN THESE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PROVIDE INFORMATION ON PILE DRIVING HAMMER AND ACCESSORIES TO BE USED ON THIS JOB TO THE ENGINEER FOR APPROVAL. CONTRACTOR SHALL OBTAIN APPROVAL PRIOR TO MOBILIZING PILE DRIVING EQUIPMENT.
- IF PILES ARE APPROVED FOR JETTING INTO PLACE, THE PILES SHALL BE DRIVEN THE LAST FIVE FEET WITH A HAMMER MEETING FDOT SPECIFICATION 455-3.3. JETTING MUST CONFORM TO PERMIT REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE PILE DRIVING LOGS FOR ALL PILES. PILE DRIVING LOGS SHALL BE SUPPLIED WITHIN 3 WORKING DAYS OF DRIVING EACH PILE.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER OF ANY PILE THAT DOES NOT REACH THE REQUIRED PILE TIP ELEVATION.
- PILE LOAD TESTS ARE REQUIRED AS INDICATED IN THE TECHNICAL SPECIFICATIONS FOR "PRESTRESSED CONCRETE PILES".

TIMBER PILES

- TIMBER PILES SHALL BE 12" MIN. BUTT DIAMETER IN ACCORDANCE WITH FDOT SECTION 455.
- CUT-OFF ELEVATION OF TIMBER PILES SHALL BE +105 COSPD.
- TIMBER PILES SHALL BE 50' LONG.
- TIMBER PILES SHALL BE CCA TREATED IN ACCORDANCE WITH FDOT SECTION 455. PILES SHALL BE WRAPPED FROM +100 COSPD TO 2' BELOW MUDLINE WITH 100 MIL HDPE OR APPROVED EQUAL.

TIMBER RUB RAILS & FENDERS

- TIMBER RUB RAILS ON FINGER PIERS 4x6 COMPOSITE TIMBERS.
- TIMBER RUB RAILS ON MAIN PIER AND T-HEAD PIER 4x6 CCA TREATED TIMBERS.
- VERTICAL TIMBER FENDERS ON FINGER PIERS 8'-0" LONG 4x4 CCA TREATED TIMBER POSTS.
- MOUNT RUB RAILS AND FENDERS WITH 3/4" SS ALL-THREAD , 7" LONG NUT NUT AND WASHER COUNTERSUNK.

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWINGS

DESIGNED BY: JAM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: AGS	DATE: 10/2006	RECORD DRAWINGS	JAM	07/30/08
CHECKED BY: JDM	DATE: 10/2006			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL.			

MOFFATT & NICHOL
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818

ENGINEERING DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
GENERAL NOTES & DESIGN CRITERIA
SHEET 1 OF 2

DATE: JULY 2008
 SCALE: NONE
 DRAWING No. 10175-2
 SHEET No. X2

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GENERAL MECHANICAL NOTES

1. REFER TO SHEET X5 FOR OVERALL SITE PLAN.
2. ALL WATER MAIN MATERIALS (PIPE, HYDRANTS, VALVES, ETC.) SHALL BE FURNISHED BY THE CONTRACTOR. ALL SUCH MATERIALS SHALL BE NEW, SHALL MEET CITY SPECIFICATION REQUIREMENTS FOR EACH ITEM, AND PRIOR TO INSTALLATION, MUST BE APPROVED IN WRITING BY THE ENGINEER.
3. ALL WORK SHALL COMPLY WITH THE CITY OF ST. PETERSBURG WATER RESOURCES AND ENGINEERING DEPARTMENT REQUIREMENTS AND DESIGN AND CONSTRUCTION STANDARDS, AS WELL AS ALL REQUIREMENTS OF THE STANDARD PLUMBING CODE BY THE SSBC, LATEST EDITION.
4. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE ENGINEER ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF CONSTRUCTION.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER AND/OR "SUNSHINE" 1-800-432-4770 SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY THE ONSHORE POINT OF CONNECTIONS. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE PLANS (DRAWINGS) ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.
6. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
7. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THEREFORE, THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID, SO THAT HE MAY DETERMINE THE EXTENT OF DELAYS THAT UTILITY RELOCATIONS AND/OR ADJUSTMENTS MAY HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS SPECIFIED AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.
10. (a) THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, POWER OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 48 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. BETWEEN THE HOURS OF 9:00 A.M. TO 4:00 P.M., WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
- (b) CONSTRUCTION EQUIPMENT AND MATERIAL MAY BE STORED ONLY IN AREAS DESIGNATED FOR CONTRACTOR'S USE. THIS AREA WILL BE DESIGNATED BY THE CITY AND AS SHOWN ON SHEET X5.
11. THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS FOR APPROVAL BY THE ENGINEER. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE DAILY AND LEGALLY DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL RETRIEVE ANY DEMOLISHED PIPING DROPPED BELOW WATER.
13. ALL HANGERS, HARDWARE, AND COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR REVIEW AND APPROVAL. A DIELECTIC ISOLATION SHEET SHALL BE PLACED WHERE DISSIMILAR METALS CONTACT ON THE SUPPORT.
14. CONTRACTOR SHALL COMPLY WITH COAST GUARD REGULATIONS TO PROTECT AND MAINTAIN ALL BOAT TRAFFIC. CONTRACTOR SHALL NOT INTERFERE WITH NORMAL BOAT TRAFFIC.
15. ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE CITY OF ST. PETERSBURG. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.
16. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, OR THROUGH TESTING, SHALL BE REMOVED, LEGALLY DISPOSED AND REPLACED WITH SUITABLE MATERIAL.
17. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS. CONTRACTOR SHALL PROVIDE OWNER WITH OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
18. DIELECTRIC COUPLINGS SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS.
19. ALL DISTURBED CONCRETE AND PAVING SHALL BE REPLACED TO CURRENT STANDARDS TO MATCH EXISTING TO THE ENGINEER'S ACCEPTANCE. ALL DISTURBED LAWN AREAS SHALL BE RESODDED.
20. CONTRACTOR SHALL PROVIDE TEMPORARY BLOW OFF VALVES AT THE END OF EACH WATER/FIRE LINE.
21. THE CONTRACTOR MAY USE THE HOSE BIBBS AS BACTERIOLOGICAL SAMPLING POINTS.
22. ON EXISTING CS FIRE AND POTABLE WATER LINES TO REMAIN, THE CONTRACTOR SHALL RESTORE THE PROTECTIVE WRAPPING THAT IS DISTURBED BY HIS ACTIVITIES. NEW (CITY APPROVED) TAPE SHALL BE COMPATIBLE WITH SUNLIGHT AND SALTWATER AND SHALL ADHERE TO PIPE AND THE EXISTING NEIGHBORING COATING TO PROVIDE A COMPLETE WATER SEAL. CITY APPROVED MARINE EPOXY PAINT, MULTILAYERS, MAY ALSO BE USED IN FULL COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

23. MECHANICAL RESTRAINTS SHALL BE USED ON ALL FITTINGS AND PIPE JOINTS, AND PLACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND CITY OF ST. PETERSBURG REQUIREMENTS. COVERED PVC FIRE SERVICE TEES, CROSSES, AND ELBOWS SHALL BE RESTRAINED USING THRUST BLOCKS IN ACCORDANCE WITH CITY OF ST. PETERSBURG REQUIREMENTS.

FIREWATER SYSTEM

1. THE NEW AND EXISTING FIRE HYDRANTS AND THE UNDERGROUND WATER LINES TO THE HYDRANTS ARE PART OF THE PUBLIC SYSTEM.
2. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, PIPE BEDDING, INSTALLATION OF NEW LINE, HYDRANT AND THRUST BLOCK PLACEMENTS, PRESSURE TESTING, DISINFECTION, FLUSHING, WARNING TAPE, BACKFILL, RESURFACING, REACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH COSP STANDARDS AND REGULATIONS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH THE TIE-INS ARE REQUIRED BY COSP, DEPARTMENT OF WATER RESOURCES; AND THE ENGINEERING DEPARTMENT. AUTHORIZED CITY REPRESENTATIVE SHALL WITNESS TIE-IN.
3. EQUIPMENT, SUCH AS VALVES, HYDRANTS, PIPE AND COATINGS, SHALL BE AS NOTED IN THE CITY STANDARDS.
4. FIRE PROTECTION PLANS AND LOCATION OF NEW HYDRANTS SHALL BE APPROVED BY ST. PETERSBURG FIRE PREVENTION DEPARTMENT (SPFPD) VIA ST. PETERSBURG CONSTRUCTION SERVICES AND PERMITTING DEPARTMENT AND THE CITY ENGINEERING DEPARTMENT PRIOR TO THE INSTALLATION OF ANY PIPE. DURING CONSTRUCTION, A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON THE JOB SITE. REFER TO F SERIES SHEETS AND REFERENCE W SERIES SHEETS.
5. AN APPOINTMENT SHALL BE MADE AT THE LEAST MINIMUM REQUIRED (SPECIFIED) WORKING DAYS IN ADVANCE WITH THE CITY ENGINEERING OFFICE FOR ALL INSPECTIONS AND TESTS.
6. COMPLETED WORK SHALL BE SUBJECTED TO A FIRE WATER PRESSURE TEST OF 200 PSI FOR TWO HOURS, DURING WHICH THERE IS TO BE NO REDUCTION IN TEST PRESSURE. IF A REDUCTION SHOULD OCCUR, LEAK(S) SHALL BE LOCATED, REPAIRED AND THE TEST REPEATED. HYDROSTATIC TESTING OF THE POTABLE WATER SYSTEM IS ADDRESSED BELOW. IN ADDITION, ALL NEWLY INSTALLED FIRE SERVICE LINES SHALL PASS HYDROSTATIC AND HYDRODYNAMIC TESTING REQUIREMENTS AS PERFORMED BY THE CITY FIRE MARSHALL.
7. UNLESS OTHERWISE NOTED, ALL PVC FIRE/WATER PIPING SHALL BE SCHEDULE 80, CONTAINING TITANIUM DIOXIDE FOR UV RESISTANCE AND SHALL CONFORM TO ASTM D-1784 AND D-1785 (IPS). THE CONTRACTOR SHALL SUBMIT TO THE CITY, MANUFACTURER'S CERTIFICATE OF CONFORMANCE. PIPE SHALL BE MARKED WITH MANUFACTURER'S IDENTIFICATION.
8. CARBON STEEL PIPE, WHERE NOTED FOR USE IN FIRE HOSE CABINETS, SHALL BE HOT-DIPPED, ZINC-COATED (GALVANIZED) SEAMLESS ASTM A53, SCHEDULE 40 PIPE, OR SEAMLESS ASTM A795. FITTINGS SHALL BE THREADED, FORGED CARBON STEEL PER ASTM A234, ANSI B16.11, AND GALVANIZED. FLANGES SHALL BE ANSI B16.5. PIPING SHALL BE TAPE WRAPPED WITH CITY APPROVED TAPE. PIPE SURFACE PREPARATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. VALVES IN FHC SHALL BE UL LISTED. PROVIDE DIELECTRIC COUPLINGS BETWEEN DISSIMILAR METAL PIPING.
9. FIRE DEPARTMENT INLET CONNECTION SHALL CONSIST OF A 4" GROOVED 90° ELBOW WITH RIGID COUPLINGS, 4" GROOVED, SPRING-LOADED CHECK VALVE, GROOVED/THREADED NIPPLE, AND 4" NPTx5" STORZ FITTING, WITH CAP AND CHAIN. THE OVERALL HEIGHT OF THE UNIT SHALL BE 30 TO 36 INCHES. A BRASS PLATE WITH "MARINA STANDPIPE" LETTERED SHALL BE FIXED TO THE STANDPIPE. FDC SHALL BE LOCATED WITH A MINIMUM CLEARANCE OF 7'-6" FROM ANY OBSTRUCTION.
10. FIRE HOSE CABINETS WITH EXTINGUISHERS SHALL BE SPACED TO PROVIDE PROTECTION TO ANY PORTION OF FLOATS OR FLOATING VESSELS. 100 FOOT HOSE SHALL BE MOUNTED ON A HOSE RACK AND SHALL BE ENCLOSED WITHIN AN APPROVED CABINET. FIRE HOSE CABINETS WITH EXTINGUISHERS SHALL BE LABELED "FIRE HOSE - EMERGENCY USE ONLY". FIRE HOSE CABINETS WITH EXTINGUISHERS SHALL BE SPACED SO THAT ALL PORTIONS OF THE DOCKS SHALL BE WITHIN 130 FT, FROM THE HOSE CABINET. CABINET FOR HOSE RACK UNIT SHALL BE MADE OF TYPE 316 STAINLESS STEEL WITH A MINIMUM THICKNESS OF 16 GAGE. CABINET SHALL BE LABELED "FIRE HOSE" IN 5" BOLD RED LETTERS. CABINET STYLE SHALL BE SIMILAR TO CABINETS ON ADJACENT NUMBERED PIERS. SHOP DRAWINGS OR CATALOG DATA FOR ABOVE CABINET AND MOUNTINGS (OR APPROVED EQUAL) SHALL BE SUBMITTED FOR APPROVAL.
11. ONE 10 POUND FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 4A-60B:C SHALL BE PROVIDED AT EACH FIRE HOSE CABINET. FIRE HOSE CABINET SHALL BE OF SUFFICIENT SIZE TO HOUSE FIRE EXTINGUISHER NO. 13-003, OR APPROVED EQUAL.
12. THE SYSTEM SHALL ONLY EMPLOY THE USE OF CITY APPROVED MATERIALS AND DEVICES. PIPING SHALL BE AS NOTED ON THE PLANS OR AS SPECIFIED.
13. PIPING MATERIAL & FIREWATER SYSTEM SHALL BE IN COMPLIANCE WITH 2000 NFPA 14, 1995 NFPA 24, 2000 NFPA 303, 2000 NFPA 307, AND SPFPD REQUIREMENTS. ALL MATERIALS SHALL BE UL LISTED.
14. THE PIER STANDPIPE SYSTEM IS A MANUAL-WET SYSTEM, PER NFPA 14, 3-2. THE STANDPIPE SYSTEM SHALL BE IN COMPLIANCE WITH 2000 NFPA 14.
15. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
16. NEW AND EXISTING FDC LOCATIONS SHALL HAVE PERMANENTLY AFFIXED SIGNS NOTING PRESSURE LIMITATION AND TO SLOWLY INCREASE AND DECREASE PRESSURE AT THE CONNECTION. FINAL SIGNAGE SHALL BE APPROVED BY THE SPFPD. EXISTING AND NEW FDC LOCATIONS SHALL HAVE BRUSH CLEARED FROM AROUND UNIT AND EXISTING FDC LOCATIONS SHALL HAVE SHRUBBERY PRUNED FOR ACCESSIBILITY.
17. VALVE BOXES SHALL BE CAST IRON OR PRECAST CONCRETE WITH CAST IRON COVERS AND PER CITY STANDARDS AND SHALL BE COATED WITH TWO (2) COATS OF COAL TAR EPOXY (9 MIL DFT) BY KOP-COAT BITUMASTIC 300-M OR CITY APPROVED EQUAL.
18. BURIED PIPING SHALL COMPLY WITH COSP STANDARDS.
19. MAXIMUM DISTANCE OF ABOVEGROUND PVC PIPE BETWEEN PIPE SUPPORTS (HANGERS) SHALL NOT EXCEED 4 FEET (UON).

POTABLE WATER SYSTEM

1. NON-BURIED PIPING FOR POTABLE WATER SHALL BE COPPER TUBING TYPE K WITH WROUGHT COPPER OR CAST BRASS FITTINGS. POTABLE WATER PIPING UNDER AND INSIDE THE REQUIRED DOCKS MAY ALSO BE PVC, PER FIREWATER SYSTEM NOTE 7. SOCKET TYPE FITTINGS, ASTM D-2455. BACKFLOW PREVENTER AND REDUCED PRESSURE PRINCIPLE EQUIPMENT SHALL HAVE PRIOR APPROVAL BY THE CITY.
2. THE POTABLE WATER SYSTEM SHALL BE PRESSURE TESTED DOWNSTREAM OF THE POC. APPLY AND MAINTAIN 100 PSIG TEST PRESSURE FOR 4 HOURS, DURING WHICH TIME THERE WILL BE NO REDUCTION IN TEST PRESSURE. SHOULD A REDUCTION OCCUR, LEAKS SHALL BE LOCATED, REPAIRED AND THE TEST REPEATED. THE POTABLE WATER SYSTEM FROM THE POC SHALL BE STERILIZED PRIOR TO USE, AND ALL IN ACCORDANCE WITH ANSI/AWWA C651. A SOLUTION OF CHLORINE (TABLETS) AND WATER CONTAINING NOT LESS THAN 50 P.P.M. OF FREE CHLORINE SHALL BE INJECTED INTO THE SYSTEM IN SUCH A MANNER AS TO ENSURE THE ENTIRE SYSTEM IS COMPLETELY FILLED WITH THE SOLUTION. AFTER INJECTION, THE SYSTEM SHALL BE ISOLATED AND THE SOLUTION HELD FOR A PERIOD OF 24 HOURS. THE SYSTEM SHALL THEN BE FLUSHED WITH FRESH WATER UNTIL THE CHLORINE LEVEL IS WITHIN ACCEPTABLE LIMITS AS DETERMINED BY THE CITY. THE CONTRACTOR SHALL ENSURE THE WATER IN THE SYSTEM IS NOT USED FOR HUMAN CONSUMPTION DURING THE STERILIZATION PROCESS AND THAT STERILIZATION SOLUTION IS DISPOSED OF IN ACCORDANCE WITH LOCAL REQUIREMENTS.
3. PIPES, VALVES AND FITTING MATERIALS SHALL BE COMPATIBLE WITH POTABLE WATER AND SUITABLE FOR 24 HOUR CONTACT WITH CHLORINE STERILIZATION SOLUTION.
4. ALL WATER SERVICE (PW AND FW) CONSTRUCTION MUST BE DONE BY A LICENSED MUNICIPAL UTILITY CONTRACTOR APPROVED BY THE CITY.
5. WHERE BURIED WATER PIPING CROSSES A SANITARY SEWER LINE, IF ENCOUNTERED, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER LINE. THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
6. BURIED PIPING SHALL CONFORM WITH COSP STANDARDS.
7. MAXIMUM DISTANCE OF ABOVEGROUND PVC PIPE BETWEEN PIPE SUPPORTS (HANGERS) SHALL NOT EXCEED 4 FEET, UON.

ELECTRICAL

1. ALL EXISTING CONDUITS NOT APPROVED TO BE REUSED IN REMODELED AREA SHALL BE REMOVED AND BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
2. ANY EXISTING ELECTRICAL OR MECHANICAL ITEMS TO REMAIN THAT HAVE TO BE REMOVED SHALL BE RECONDITIONED AND REINSTALLED AS REQUIRED.
3. ALL EXISTING EQUIPMENT TO BE REMOVED, TEMPORARILY STORED, AND REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED BY THE CONTRACTOR, AS REQUIRED.
4. THESE DRAWINGS SHOW APPROXIMATE LOCATION OF EXISTING EQUIPMENT AND DO NOT NECESSARILY INDICATE THE COMPLETE EXISTING INSTALLATION. EXACT LOCATION SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK.
6. ALL POWER INTERRUPTIONS 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 CONDITIONS, EXISTING FACILITIES AND ALL BUILDING STRUCTURES BEFORE SUBMITTING PROPOSAL. ANY VARIATIONS OF ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED BY THIS CONTRACTOR TO AVOID CONFLICTS WITH OTHER TRADES.
9. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH THE STANDARD BUILDING CODE, AND ALL OTHER CODES OR LOCAL AUTHORITIES HAVING JURISDICTION.

COMMUNICATION

1. THE TELEPHONE AND CATV UTILITY COMPANIES SHALL INSTALL CABLE AND MAKE ALL CONNECTIONS.
2. THE CONTRACTOR SHALL CONTACT THE CATV AND TELEPHONE UTILITY COMPANIES BEFORE STARTING CONSTRUCTION OF DOCKS. CLOSE COORDINATION WITH CATV AND TELEPHONE COMPANIES MUST BE MAINTAINED DURING CONSTRUCTION.
3. ALL EXISTING EQUIPMENT TO BE REMOVED AND REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED BY THE CONTRACTOR AS REQUIRED.
4. ALL TELEPHONE AND CATV CONNECTORS AND FITTINGS FOR PROPOSED AND/OR RECONDITIONED EQUIPMENT SHALL BE MARINE GRADE.

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWINGS

DESIGNED BY: JAM	DATE: 10/2006			
DRAWN BY: AGS	DATE: 10/2006			
CHECKED BY: JDM	DATE: 10/2006			
FIELD BOOK No.	PAGE	THRU		
BM No.	EL.			
LOCATION:				

MOFFATT & NICHOL
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
GENERAL NOTES & DESIGN CRITERIA
SHEET 2 OF 2

DATE: JULY 2008
SCALE: NONE
DRAWING No. 10175-3
SHEET No. X3

P:\5607-05\cadd\submit\5 Pier 5 Record Drawings\560705_X03.dwg; Jul 24, 2008-11:00am; esmith

LEGEND

ABBREVIATIONS

UTILITY LINESYLES

Table listing utility linesyles with columns for EXISTING and PROPOSED. Includes symbols for Force Main, Reclaimed Water, Sanitary Sewer, Storm Drain, Underdrain, Water Main, Fire Water, Cable TV, Gas Main, Power, and Backflow Preventer.

GENERAL PLOTTING SYMBOLS

Table listing general plotting symbols for existing and proposed features. Includes symbols for Bush, Trees, Boring Site, Haybale, Overland Flow Arrow, Pipe Flow Arrow, Sand Bag, Sign, Aerial Target, Found Concrete Monument, Found Iron Pipe, Found Iron Rod, Found "X" CUT, North Arrow, Bench Mark, Survey Disk, Survey Trav Point, Spot Elevations, Profile Elevations, Approximate Centerline, Delta Angle, Point of Intersection, Property Line, Round or Dia., and Survey Baseline.

ELECTRICAL SYMBOLS:

Table listing electrical symbols for new and existing conduits and feeders, dockside power pedestal, CATV equipment box, telephone terminal cabinet, CATV terminal cabinet, and feeder callout.

Large table of abbreviations with columns for symbol, description, and unit. Includes terms like AREA, AREA ASSOCIATION OF STATE HIGHWAY OFFICIALS, ABD, AC, AHEAD, ALTERNATE, ALUM, ALUM, APPRCH, APPROXIMATE, ASPHALT, ASPHALT CONC, ASTM AVE, B TO B, BACK TO BACK, B/C, BOX, BC, BEG, BIT, BITUMINOUS, BK, BLDG, BLKHD, BLVD, BM, BOT, BRG, BS, BTFY, B/W, C & G, CATV, CB, CF, CIP, CL, CLR, CM, CMP, CMPA, CO, COM, CONC, CONN, CONST, COR, CORR, COSP, CP, CS, CSP, CTR, CU, CULV, CY, D, DBL, DEPT, DI, DIA, DIM, DISP, DOT, DR, D/W, DWG, E, EA, EL OR ELEV, ELECTRIC, ELBOW, ELLIP, ELLIPICAL, EMBK, ENCL, ENCLURE, ENGR, EP, EQ, EQUIP, ESMT, EW, E/W, EXCAV, EXIST, F TO F, FCM, FDC, FDOT, FED, FES, FH, FHC, FHW, FIP, FIR, FL, FLEX, FM, FOUND, FP, FT, FURN, FUT, FW, GAL OR GA, GALV, GAR, GIP, GR, GRD, GUT OR GTR, GV, HDWL, HNDRL, HORIZ, HP, HR, HW, HWY, HYD, ID, IN, INC, INCL, IP, INSTL, INV, T, TBM, TBR, T/C, TEL OR TELE, TN, TRAFFIC, TREAT, TW, TWP, TYP, UL, UNDERDR, UON, V, VC, VF, VCP, VERT, W/W, W, WD, WM, WT, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ

UTILITY STRUCTURE SYMBOLS

Table listing utility structure symbols for existing and proposed structures. Includes symbols for Catch Basin, Fire Department Connection, Fire Extinguisher Cabinet, Fire Hose Cabinet, Junction Box, Lift Station, Manhole, Retaining Wall, Temporary Sediment Barrier, Edge of Water or Ditch/Swale, Top of Bank, and Curbs.

UTILITY WATER SYMBOLS

Table listing utility water symbols for existing and proposed water features. Includes symbols for Air Release, Bend, Cross, Gate Valve, Hose Bibb, Hydrant, Hydrant & Valve, Meter, Pedestal, Plug, Reducer, Tap Valve & Sleeve, Tee, Thrust Block, Valve, and Wye.

GENERAL USE

Table listing general use symbols for existing and proposed features. Includes symbols for Edge of Roadway, Railroad, Sidewalk or Driveway, City R/W Line, Subdivision Boundary, Easement, Lot Line, Building Wall, Guard Rail, Fence, Retaining Wall, Temporary Sediment Barrier, Edge of Water or Ditch/Swale, Top of Bank, Curbs, Tree or Wood Line, Hedges, Base Line, and Construction Line.

UTILITY POLES

Table listing utility pole symbols for existing and proposed poles. Includes symbols for General Pole, Guy Wire/Anchor, Joint User Pole, Light Pole, Power Pole, and Telephone.

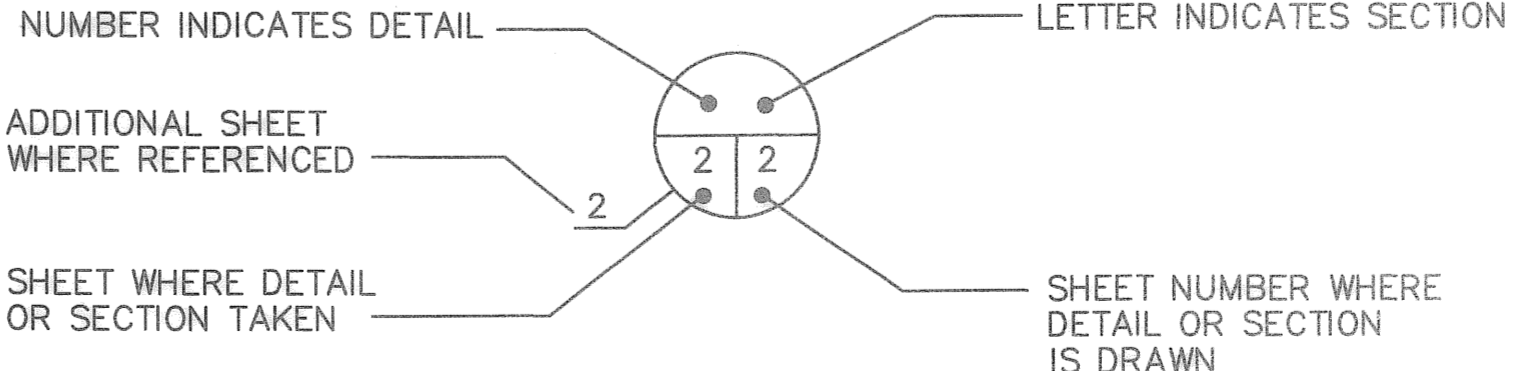


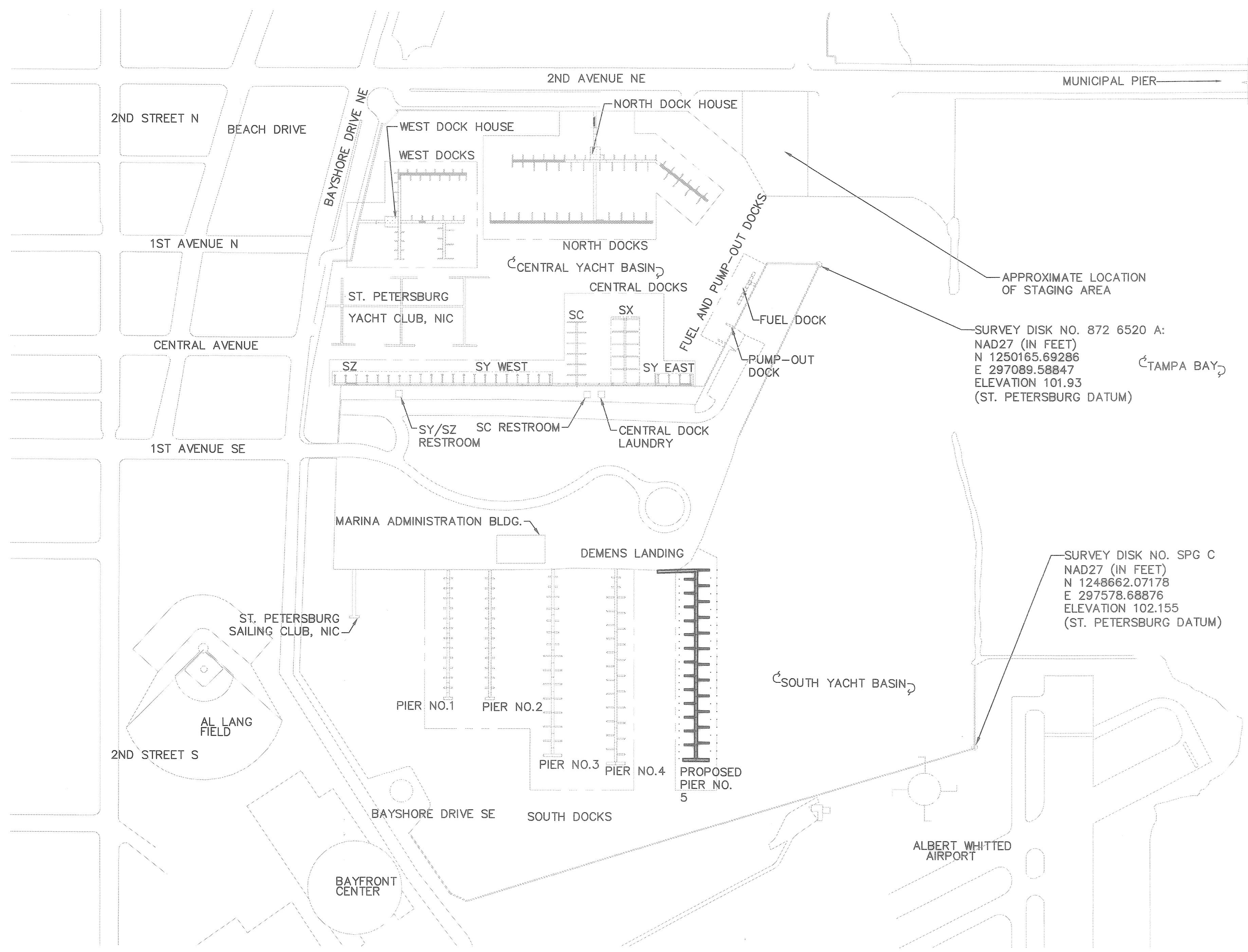
Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, FIELD BOOK No., BM No., LOCATION, DATE, and REVISIONS. Includes entry for JAM, AGS, JDM, 10/2006, and a list of revisions.

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ENGINEERING DEPARTMENT CITY OF ST. PETERSBURG APPROVED BY: [Signature]

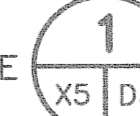





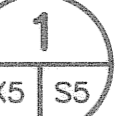











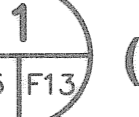











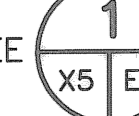
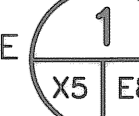

MUNICIPAL MARINA SOUTH YACHT BASIN PIER 5 CONSTRUCTION PROJECT NO. 01074-217 ABBREVIATIONS & LEGEND DRAWING NO. 10175-4 SHEET NO. X4 DATE: JULY 2008 SCALE: NONE

P:\5607-05\cadd\Submittals\PIer 5 Record Drawings\560705_X04.dwg, Jul 24, 2008-11:00am, asmith



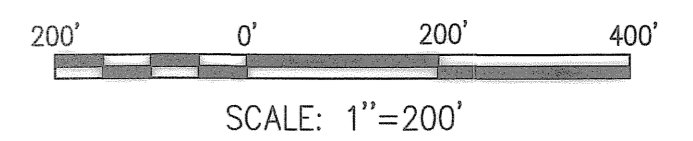
OVERALL MARINA SITE PLAN 
1"=200'

NOTE:
FOR WATER CIRCULATORS AND STORMWATER IMPROVEMENTS IN ACCORDANCE WITH FDEP PERMIT NO. 52-0210624-001, SEE SHEETS C1 AND C3.

- FOR DEMOLITION PLAN CENTRAL DOCKS, SEE   (NIC)
- FOR DEMOLITION PLAN WEST DOCKS, SEE  (NIC)
- FOR DEMOLITION PLAN NORTH DOCKS, SEE   (NIC)
- FOR DEMOLITION PLAN FUEL AND PUMP-OUT DOCKS, SEE   (NIC)
- FOR STRUCTURAL PLAN SOUTH DOCKS, SEE   (NIC)
- FOR STRUCTURAL PLAN PIER NO. 5, SEE  (NIC)
- FOR STRUCTURAL PLAN CENTRAL DOCKS, SEE   (NIC)
- FOR STRUCTURAL PLAN WEST DOCKS, SEE  (NIC)
- FOR STRUCTURAL PLAN NORTH DOCKS, SEE   (NIC)
- FOR STRUCTURAL PLAN FUEL AND PUMP-OUT DOCK, SEE   (NIC)
- FOR FIREWATER PLAN SOUTH DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN PIER NO. 5, SEE  (NIC)
- FOR FIREWATER PLAN CENTRAL DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN WEST DOCKS, SEE  (NIC)
- FOR FIREWATER PLAN NORTH DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN-ALTERNATE 1 CENTRAL DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN-ALTERNATE 1 WEST DOCKS, SEE  (NIC)
- FOR FIREWATER PLAN-ALTERNATE 1 NORTH DOCKS, SEE   (NIC)
- FOR POTABLE WATER PLAN PIER NO. 5, SEE  (NIC)
- FOR POTABLE WATER WEST DOCKS, SEE  (NIC)
- FOR POTABLE WATER PLAN NORTH DOCKS, SEE   (NIC)
- FOR POTABLE WATER FUEL DOCK, SEE  (NIC)
- FOR ELECTRICAL PLAN PIER NO. 5, SEE  (NIC)
- FOR ELECTRICAL PLAN WEST DOCKS, SEE  (NIC)
- FOR FUEL DOCK PLAN, SEE  (NIC)
- FOR FUEL TANKS DEMOLITION PLAN, SEE  (NIC)
- FOR FUEL TANKS PLAN, SEE  (NIC)
- FOR FUEL TANKS ELECTRICAL PLAN, SEE  (NIC)
- FOR FIREWATER PLAN SOUTH DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN CENTRAL DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN-ALTERNATE 1 CENTRAL DOCKS, SEE   (NIC)
- FOR FIREWATER PLAN-ALTERNATE 1 WEST DOCKS, SEE  (NIC)
- FOR FIREWATER PLAN-ALTERNATE 1 NORTH DOCKS, SEE   (NIC)
- FOR ELECTRICAL PLAN NORTH DOCKS, SEE   (NIC)
- FOR ELECTRICAL PLAN FUEL DOCK, SEE  (NIC)
- FOR COMMUNICATION PLAN PIER NO. 5, SEE  (NIC)
- FOR COMMUNICATION PLAN WEST DOCKS, SEE  (NIC)
- FOR COMMUNICATION PLAN NORTH DOCKS, SEE  (NIC)
- FOR COMMUNICATION PLAN WEST DOCKS, SEE  (NIC)

SURVEY DISK NO. 872 6520 A:
NAD27 (IN FEET)
N 1250165.69286
E 297089.58847
ELEVATION 101.93
(ST. PETERSBURG DATUM)

SURVEY DISK NO. SPG C
NAD27 (IN FEET)
N 1248662.07178
E 297578.68876
ELEVATION 102.155
(ST. PETERSBURG DATUM)



SCALE: 1"=200'
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

DESIGNED BY: JAM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: AGS	DATE: 10/2006			
CHECKED BY: JDM	DATE: 10/2006			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL.			

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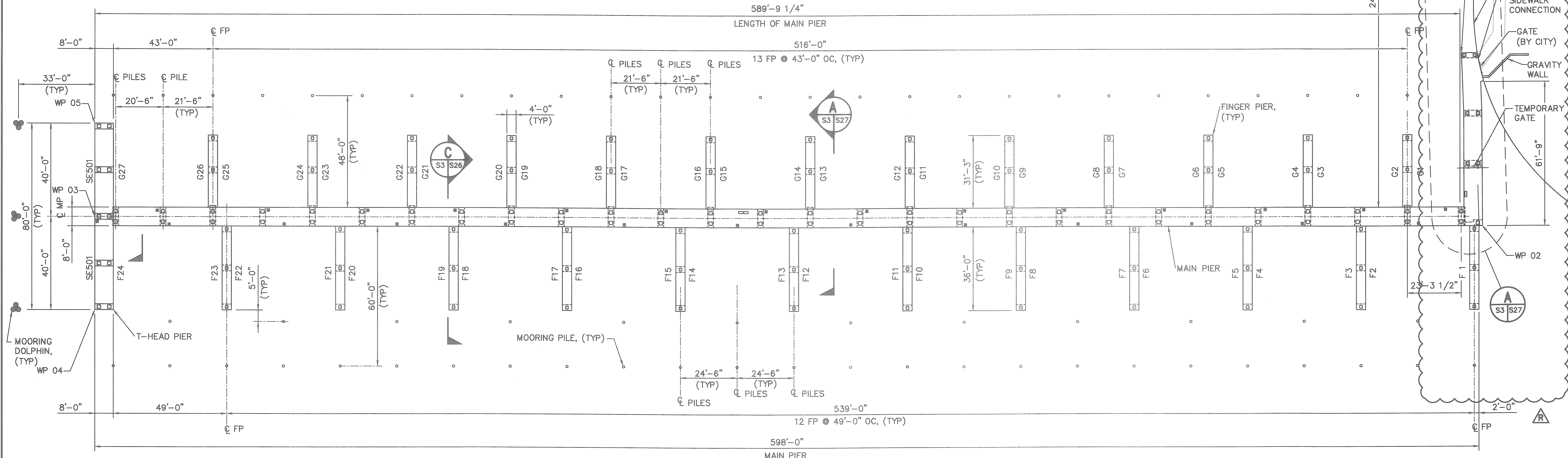
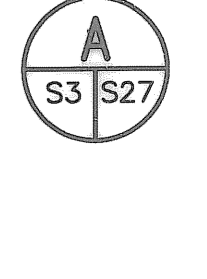
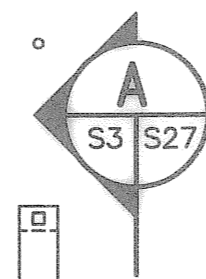
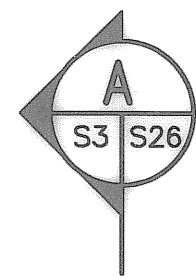
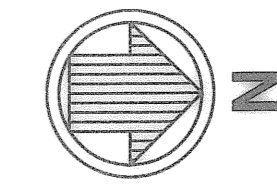
**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217**

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-5
SHEET No. X5

RECORD DRAWINGS

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

P:\5607-05\cadd\Submittals\Pier 5 Record Drawings\560705_X05.dwg; Jul. 24, 2008-11:00am; asmith

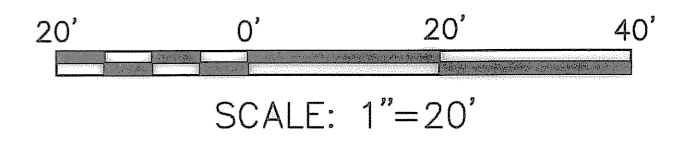


STRUCTURAL PLAN-PROPOSED PIER NO. 5 1
 1"=20'

- LEGEND**
- 3 PILE TIMBER MOORING DOLPHIN, SEE 3 S3 S28
 - 12" MIN. DIA. TIMBER MOORING PILE, 50' LONG, SEE 2 S3 S28
 - WP WORKING POINT

- 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.
 4. PIER ALIGNMENT PER AS-BUILT SURVEY BY GEORGE F. YOUNG DATED FEBRUARY 26, 2008.
 5. RECORD DRAWINGS BASED ON AS-BUILTS PREPARED BY MMCI, DATED: JUNE, 2008.

WORKING POINT TABLE		
WP #	NORTHING	EASTING
WP 1	1249202.29	296652.31
WP 2	1249211.42	296726.48
WP 3	1248611.91	296722.53
WP 4	1248611.91	296762.53
WP 5	1248611.91	296682.53



RECORD DRAWINGS

DESIGNED BY: JAM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: AGS	DATE: 10/2006		JAM	07/30/08
CHECKED BY: JDM	DATE: 10/2006			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL.			

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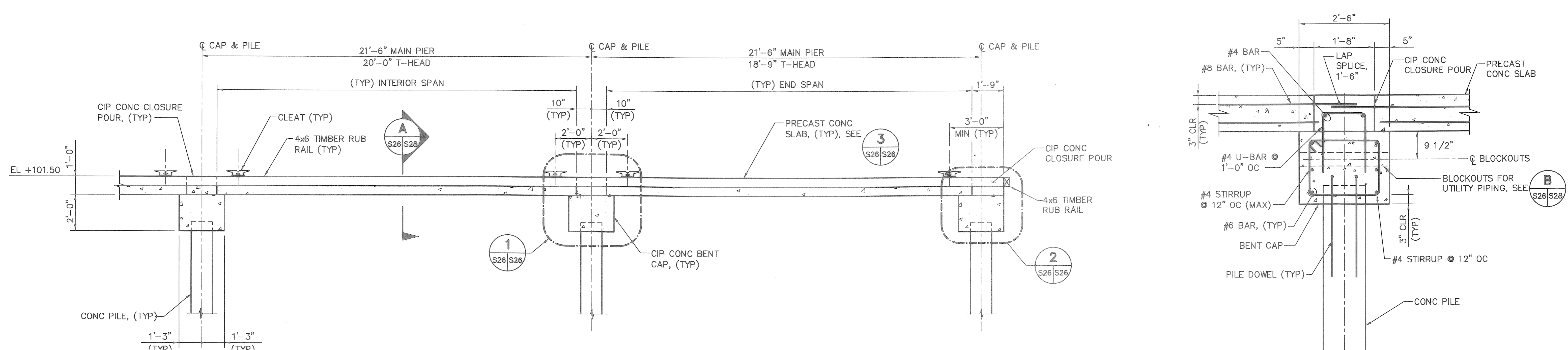
**MUNICIPAL MARINA SOUTH YACHT BASIN
 PIER 5 CONSTRUCTION PROJECT NO. 01074-217**

**STRUCTURAL PLAN
 PROPOSED PIER NO. 5**

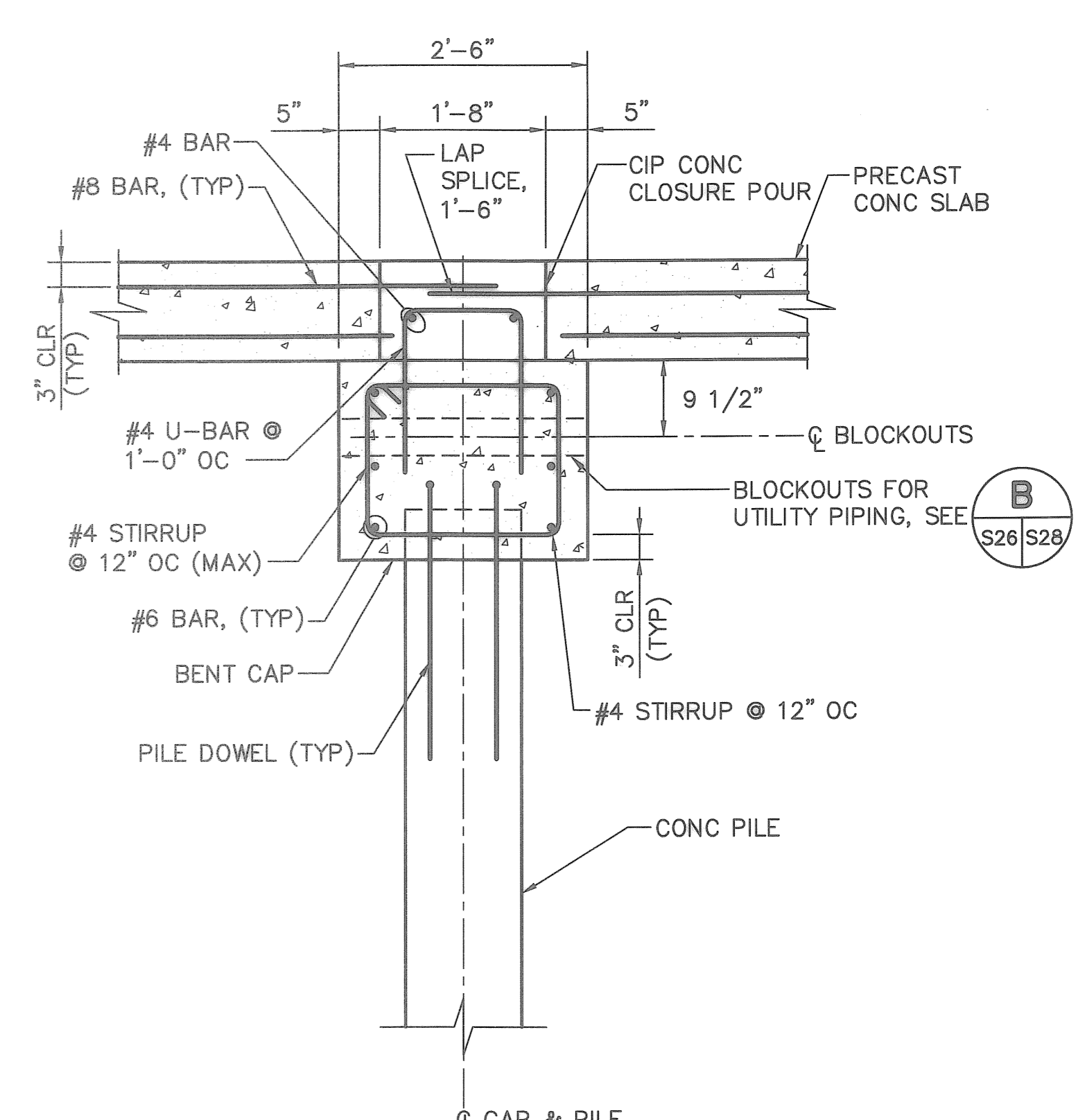
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DATE: JULY 2008	SCALE: AS SHOWN
DRAWING No. 10175-18	SHEET No. S3

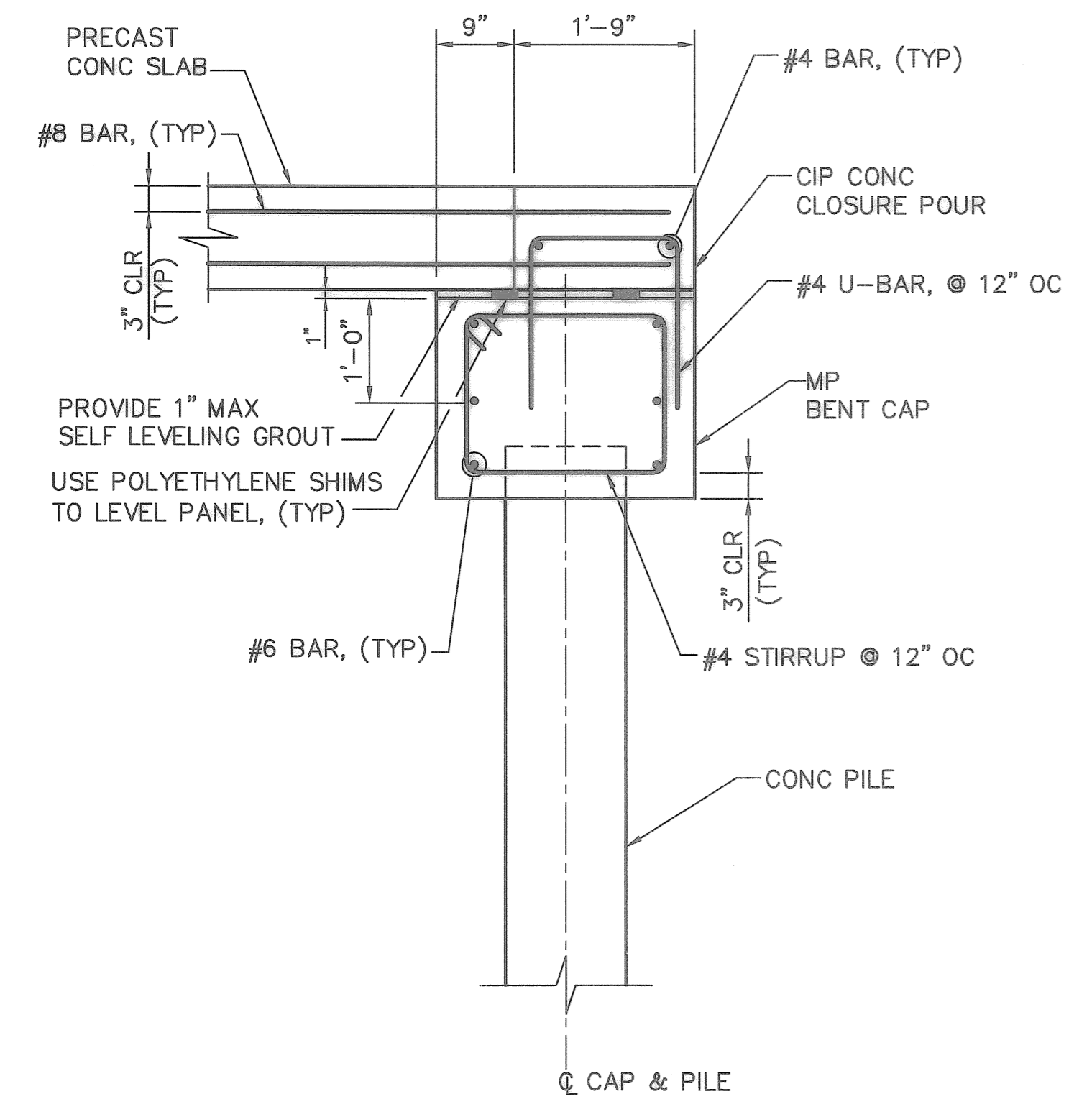
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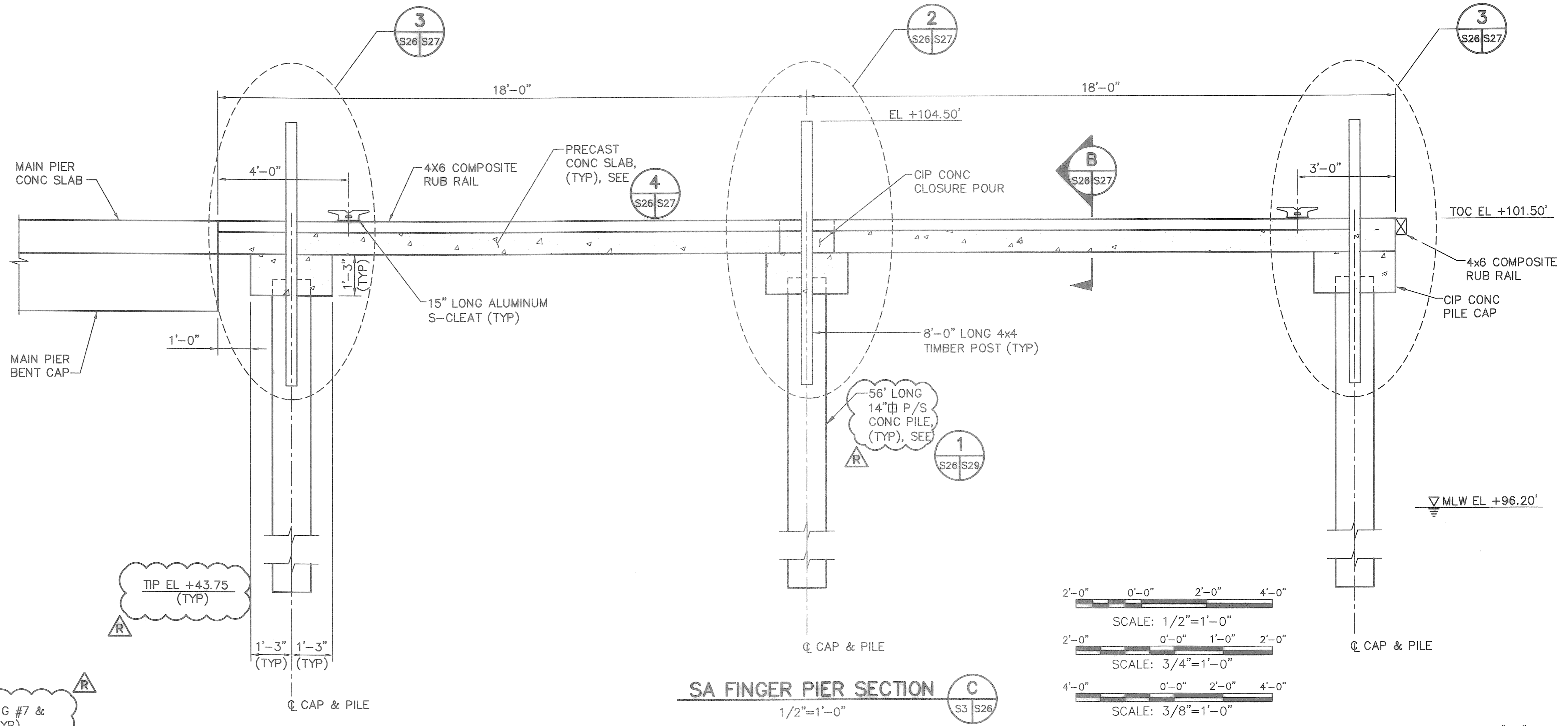
MAIN PIER/T-HEAD PIER SECTION A
3/8"=1'-0"



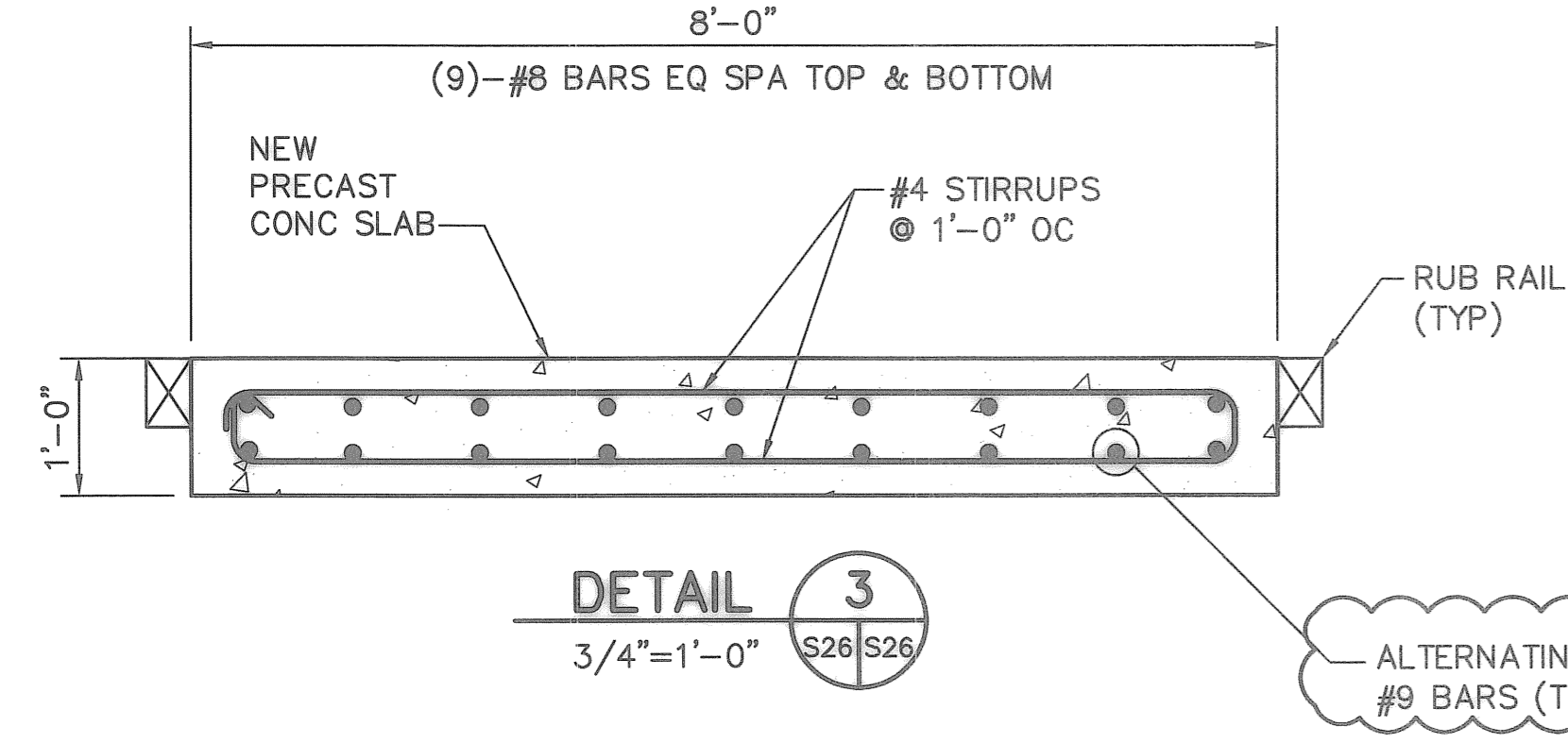
MAIN PIER CAP AND SLAB DETAIL 1
3/4"=1'-0"



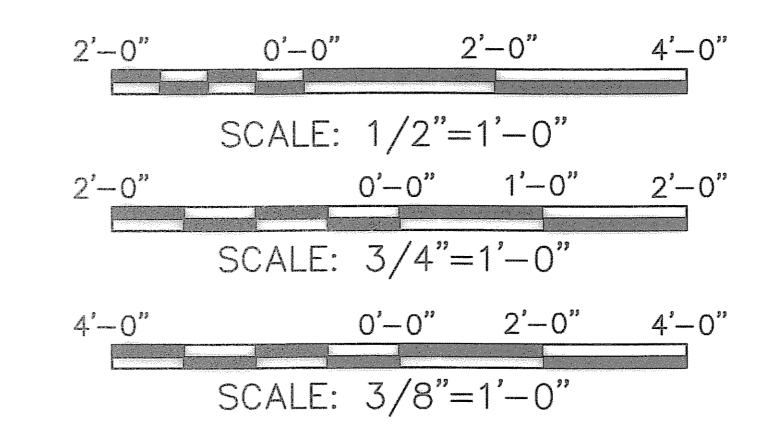
DETAIL 2
3/4"=1'-0"



SA FINGER PIER SECTION C
1/2"=1'-0"



DETAIL 3
3/4"=1'-0"



DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWINGS

DESIGNED BY: JAM
DRAWN BY: AGS
CHECKED BY: JDM
FIELD BOOK No.
BM No.
LOCATION:

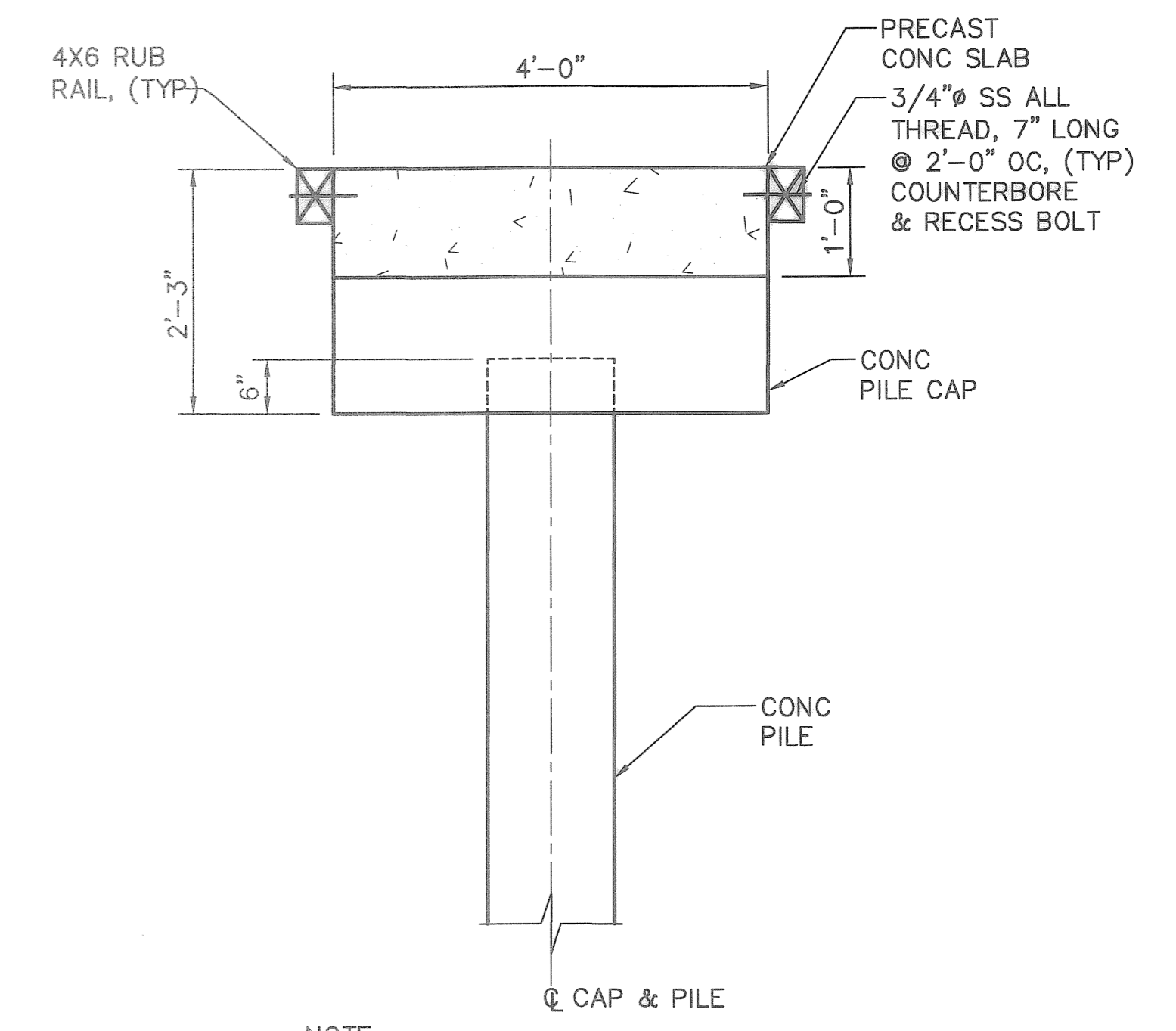
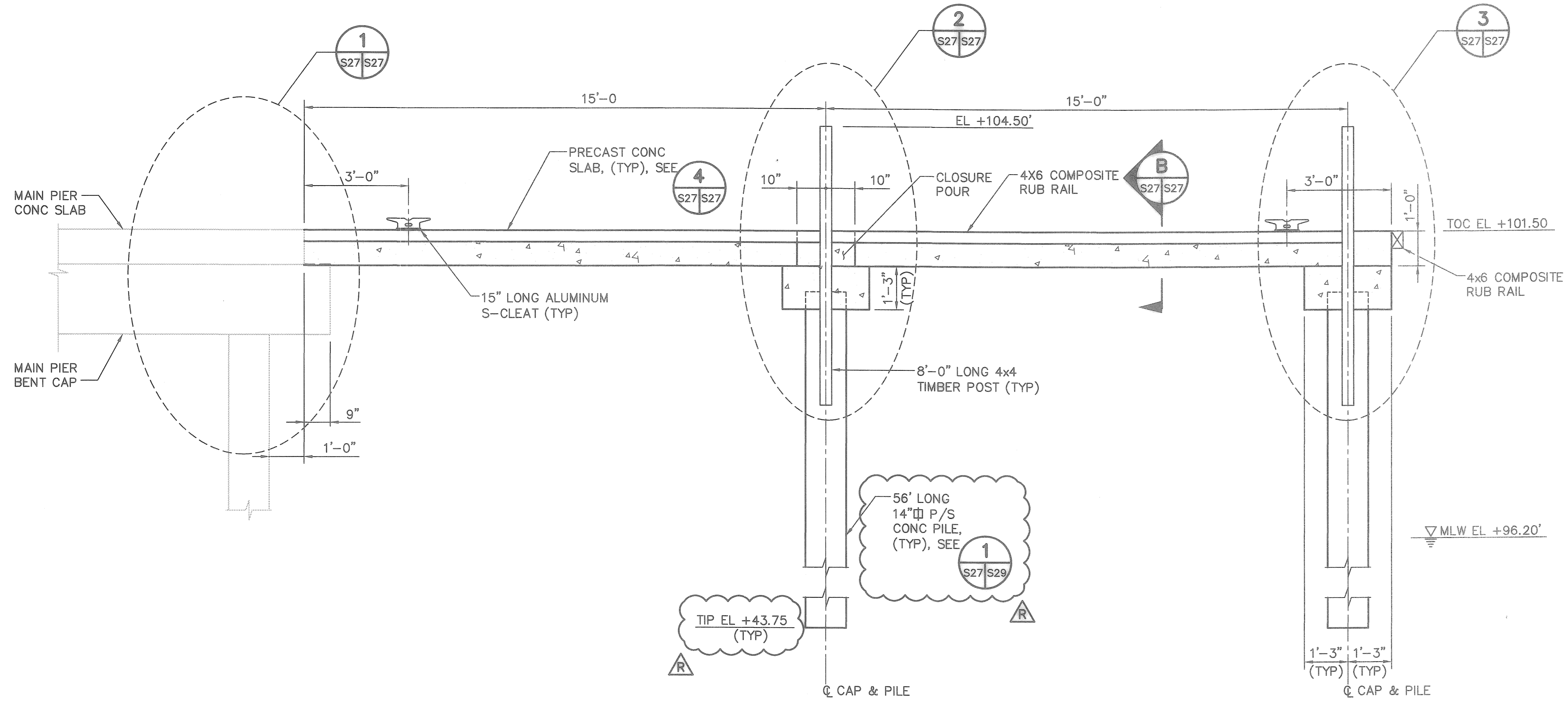
REVISIONS	BY	DATE
RECORD DRAWINGS	JAM	07/30/08

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MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
PIER NO.5 SECTIONS & DETAILS
SHEET 1 OF 3

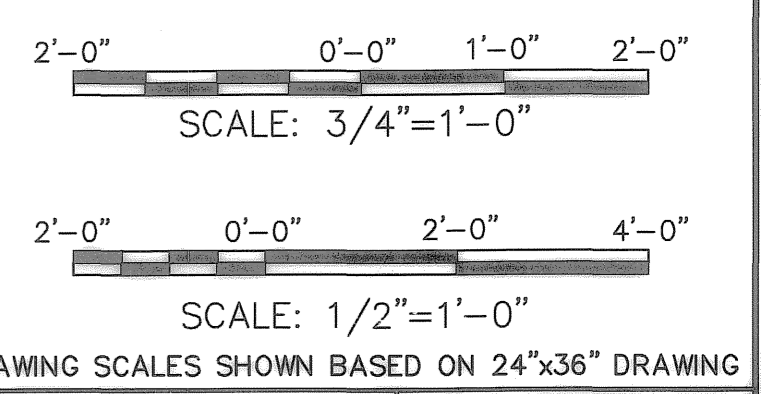
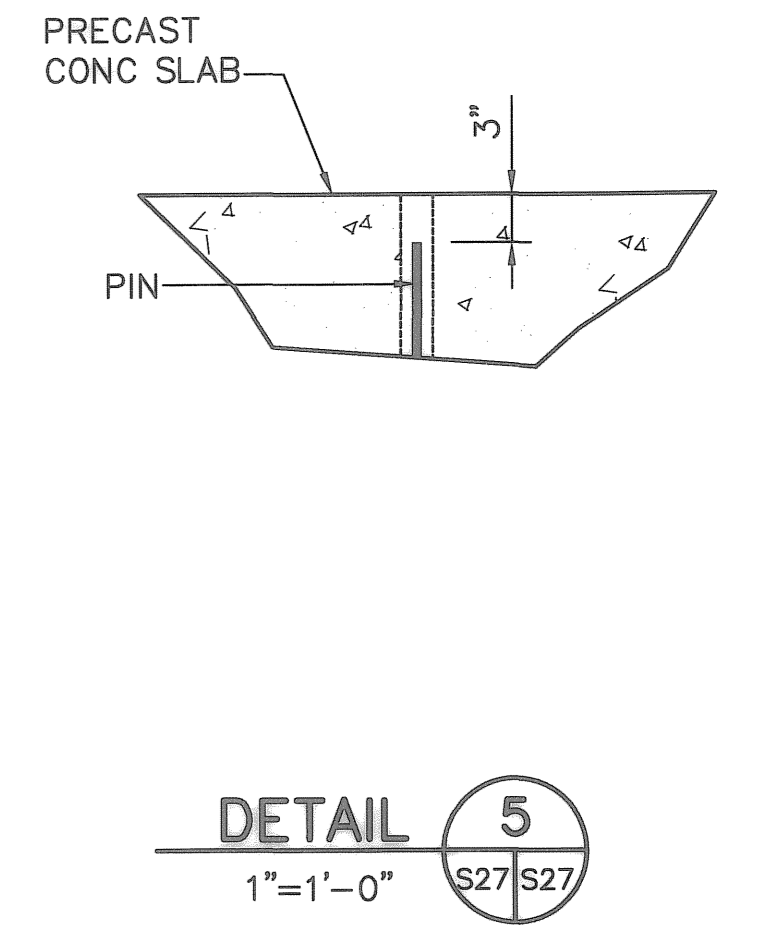
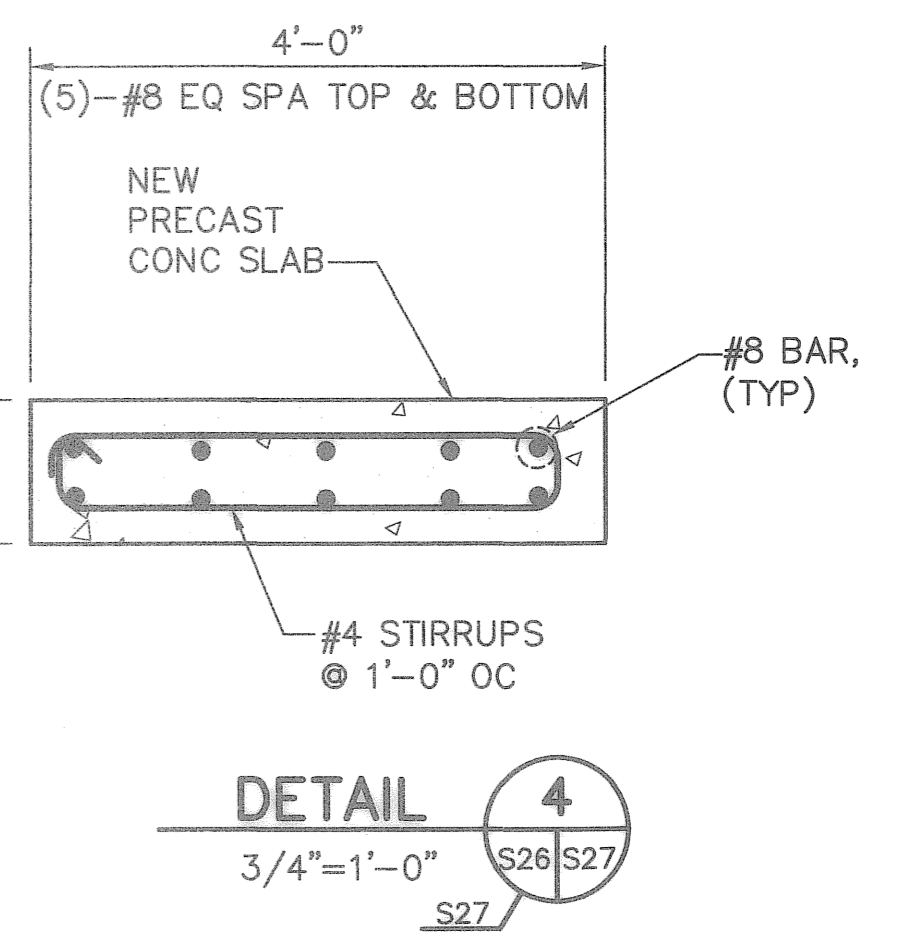
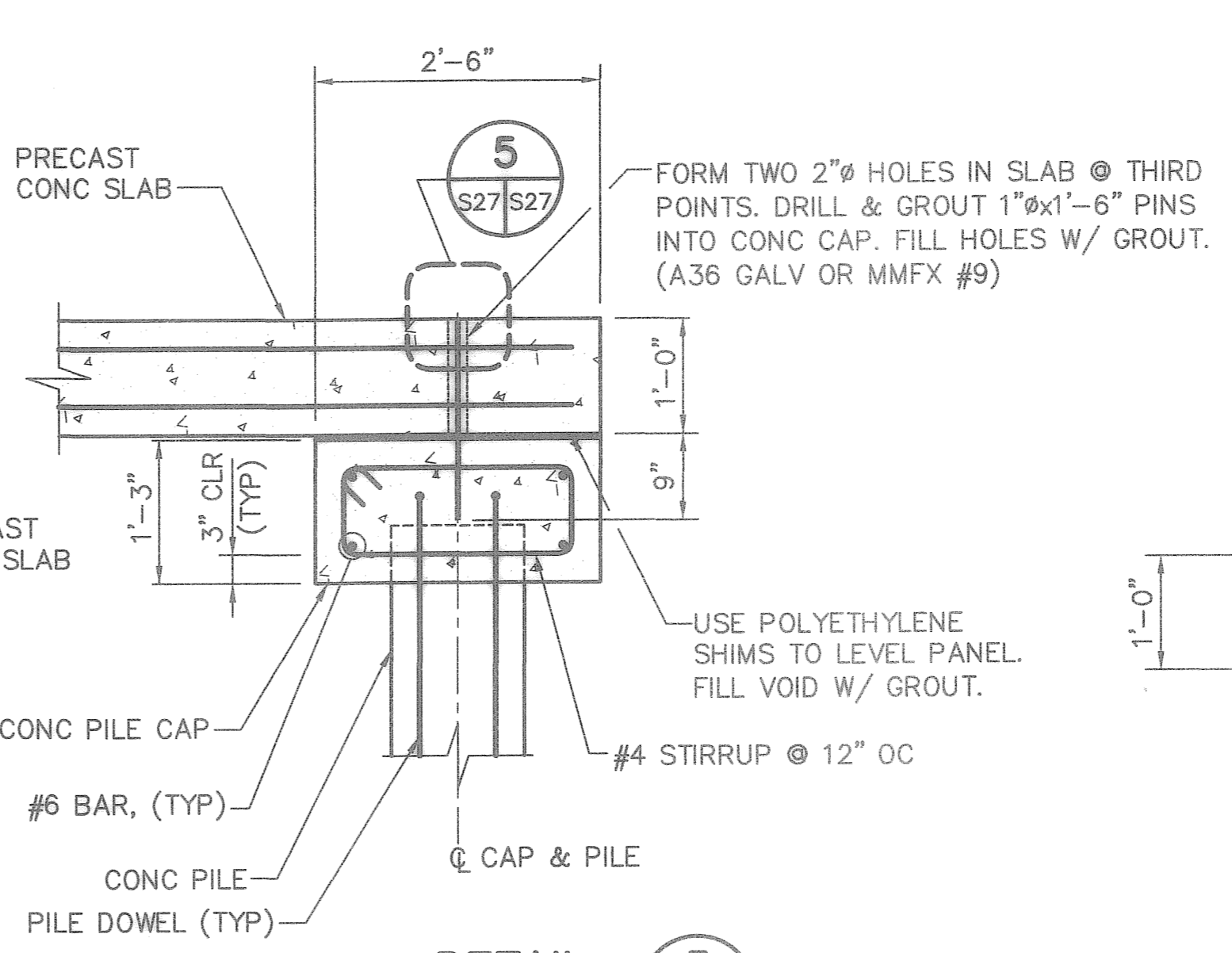
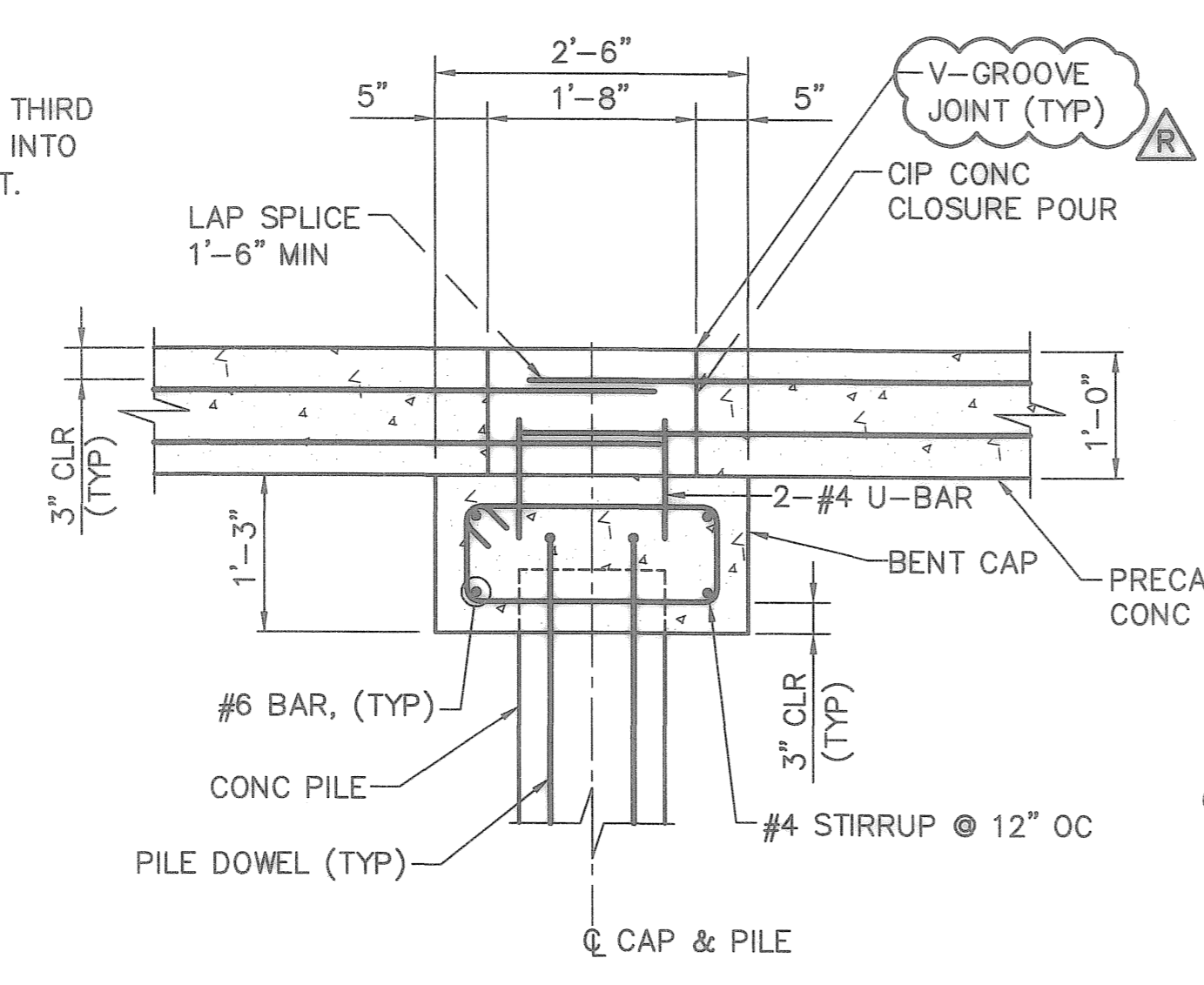
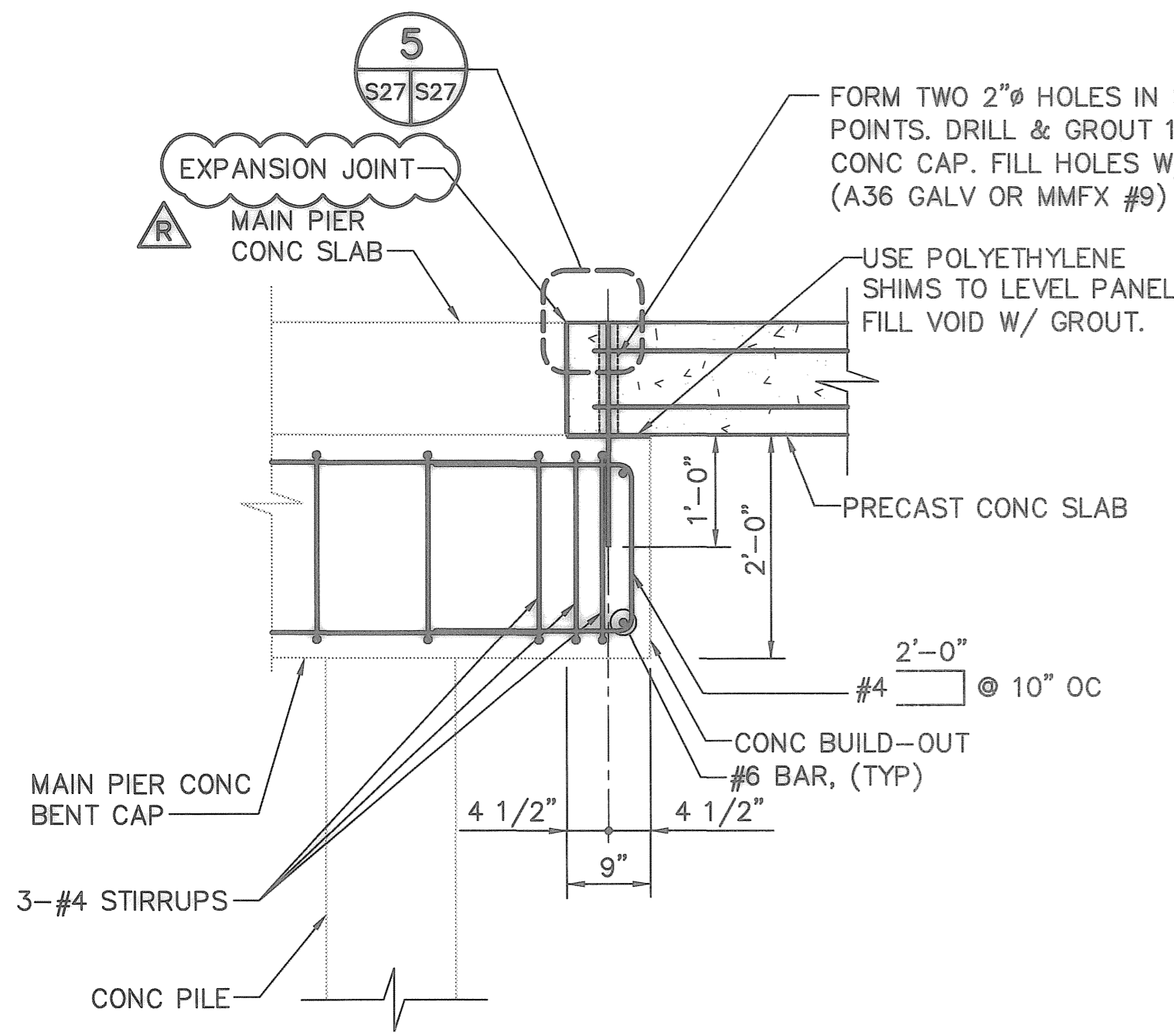
DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-41
SHEET No. S26



SB FINGER PIER SECTION A

1/2"=1'-0"

S3 S27



DESIGNED BY: JAM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: AGS	DATE: 10/2006	RECORD DRAWINGS	JAM	07/30/08
CHECKED BY: JDM	DATE: 10/2006			
FIELD BOOK No.	PAGE			
B.M. No.	THRU			
LOCATION:	EL.			

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CITY OF ST. PETERSBURG

APPROVED BY:

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217

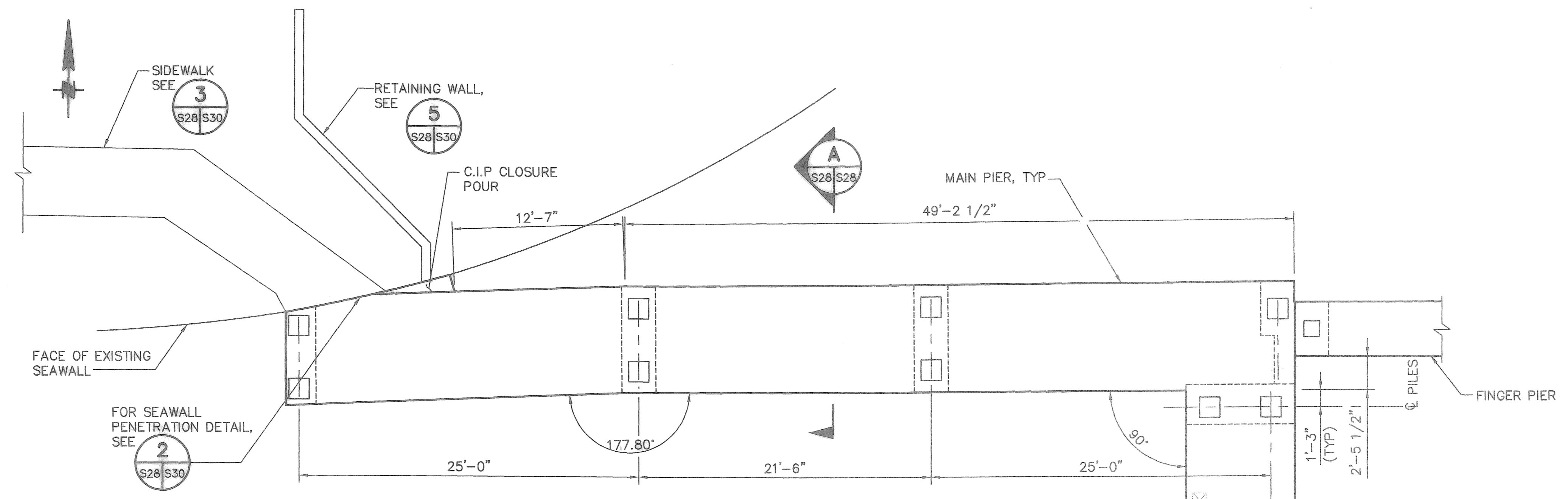
PIER NO.5 SECTIONS & DETAILS
SHEET 2 OF 3

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-42
SHEET No. S27

RECORD DRAWINGS

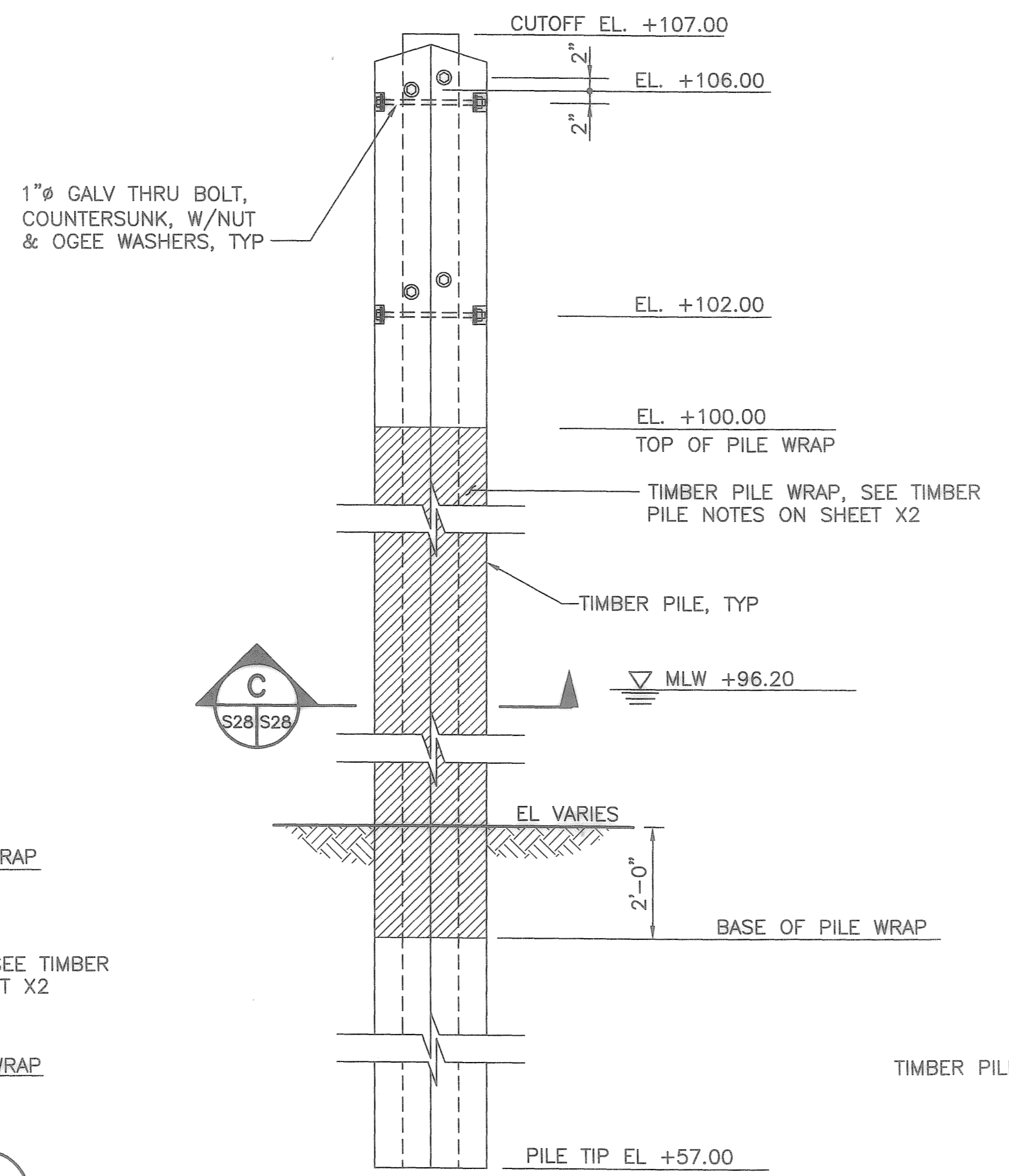
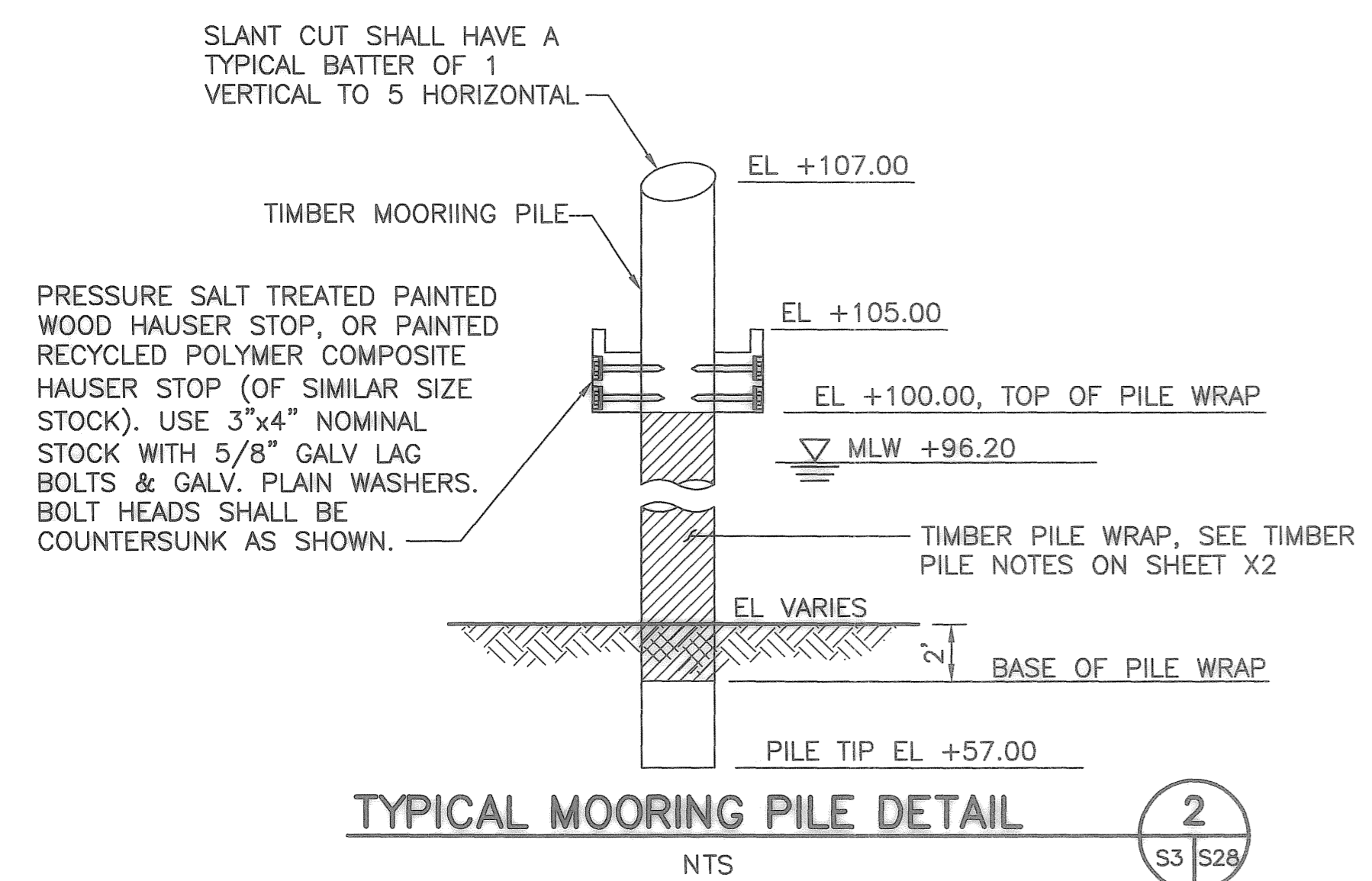
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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

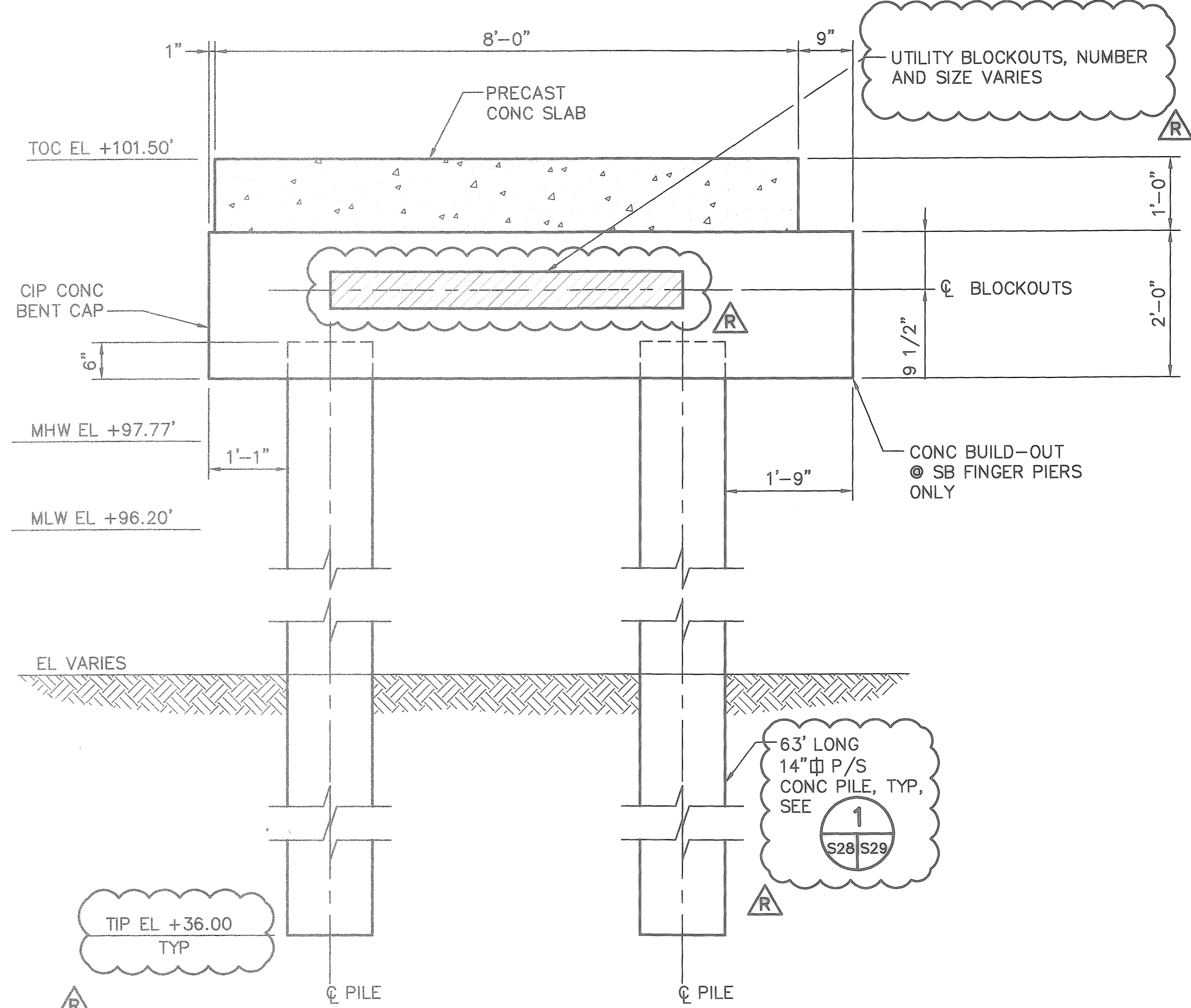


MAIN PIER CONNECTION TO SEAWALL 4
 3/16"=1'-0"

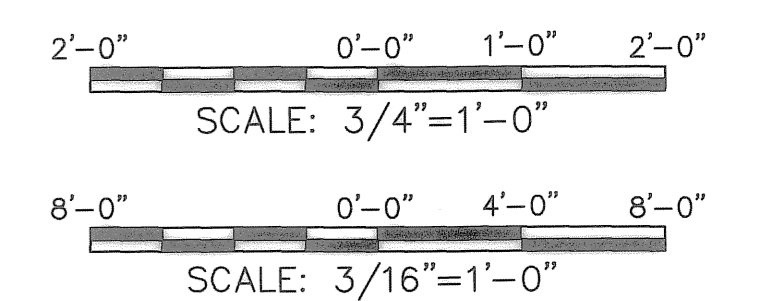
NOTES:
 1. GATE AND FENCE NORTH SIDE OF MAIN WALKWAY



NOTE:
 INSTALL 3 HAUSER STOPS FOR EACH 3-PILE DOLPHIN



NOTE:
 REINFORCEMENT NOT SHOWN FOR CLARITY.



DESIGNED BY:	DATE:	REVISIONS	BY:	DATE:
JAM	10/2006	RECORD DRAWINGS	JAM	07/30/08
DRAWN BY:	DATE:			
AGS	10/2006			
CHECKED BY:	DATE:			
JDM	10/2006			
FIELD BOOK No.	PAGE:			
	THRU:			
BM No.	EL.			
LOCATION:				

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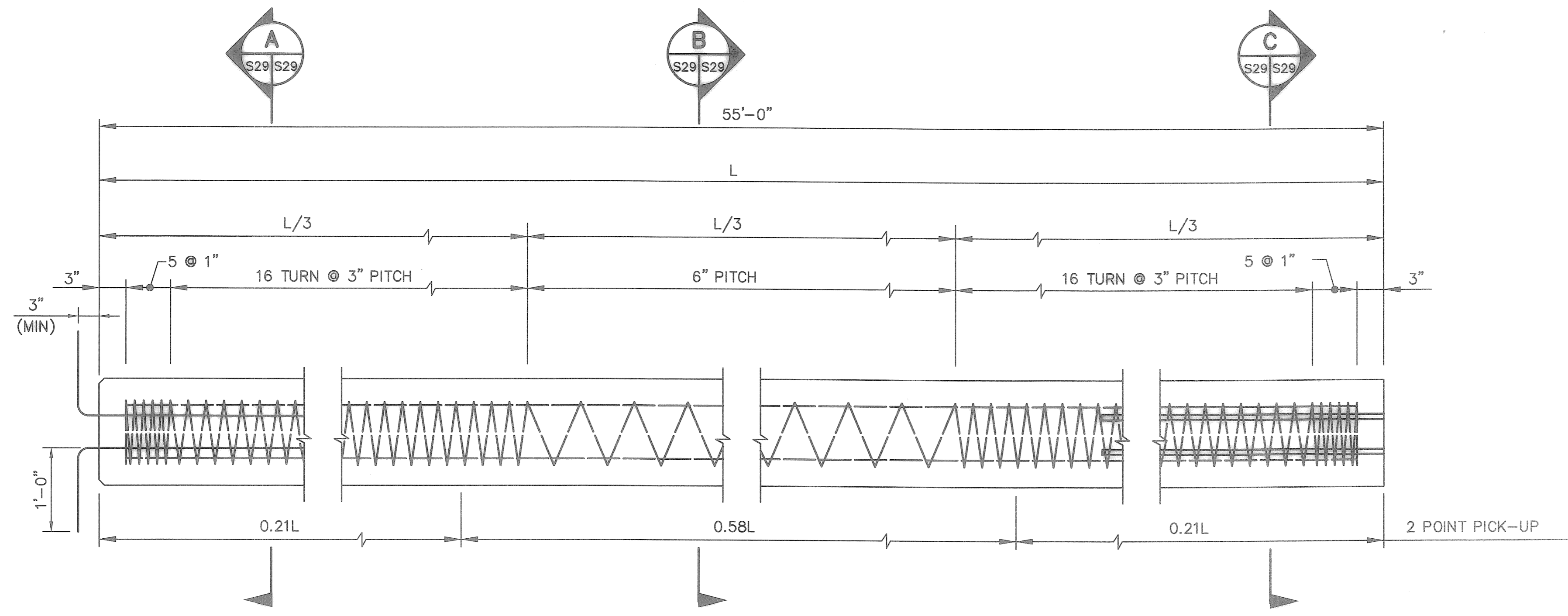
ENGINEERING DEPARTMENT
 CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
PIER NO. 5 SECTIONS & DETAILS
SHEET 3 OF 3

DATE: JULY 2008
 SCALE: AS SHOWN
 DRAWING No. 10175-43
 SHEET No. S28

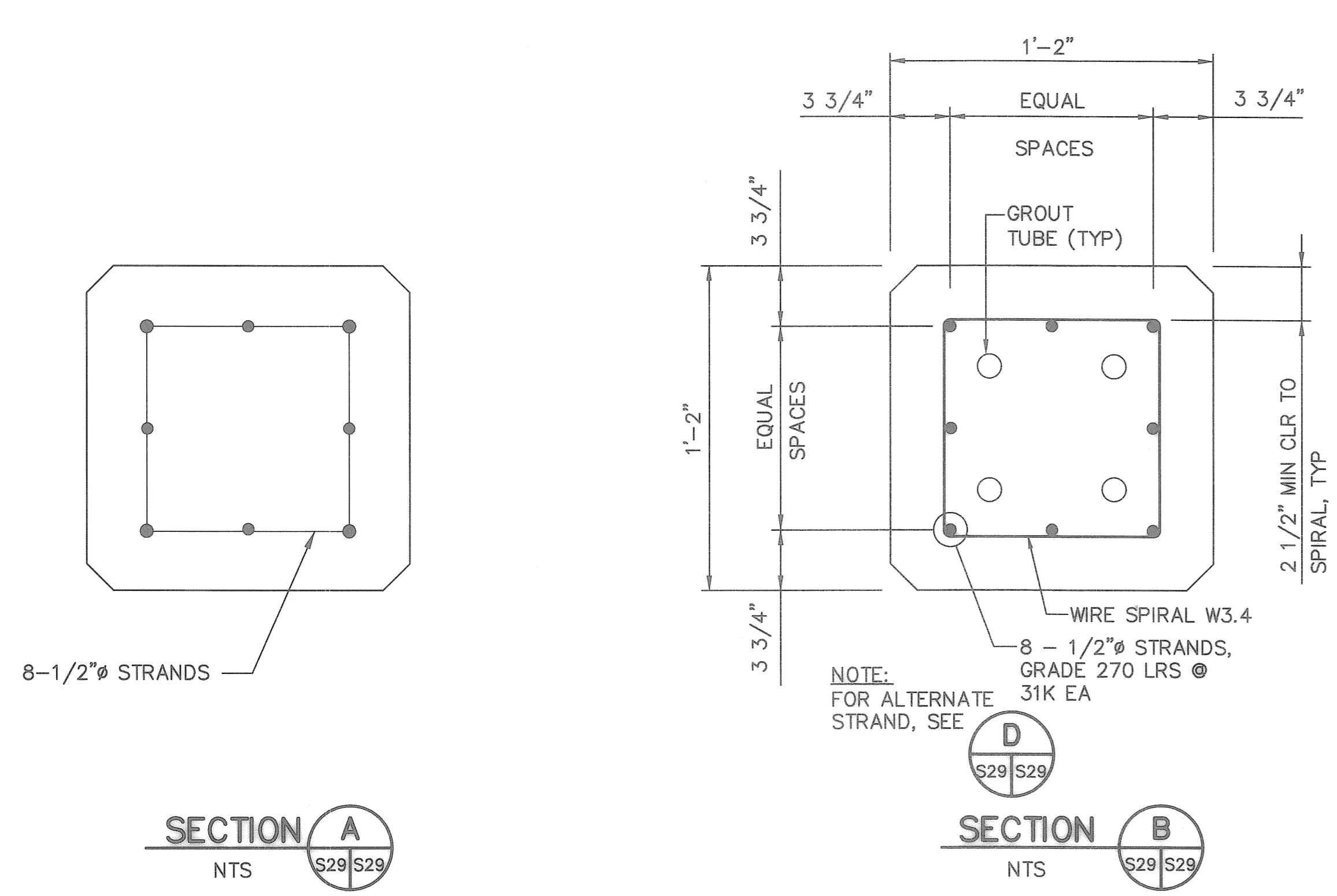
RECORD DRAWINGS

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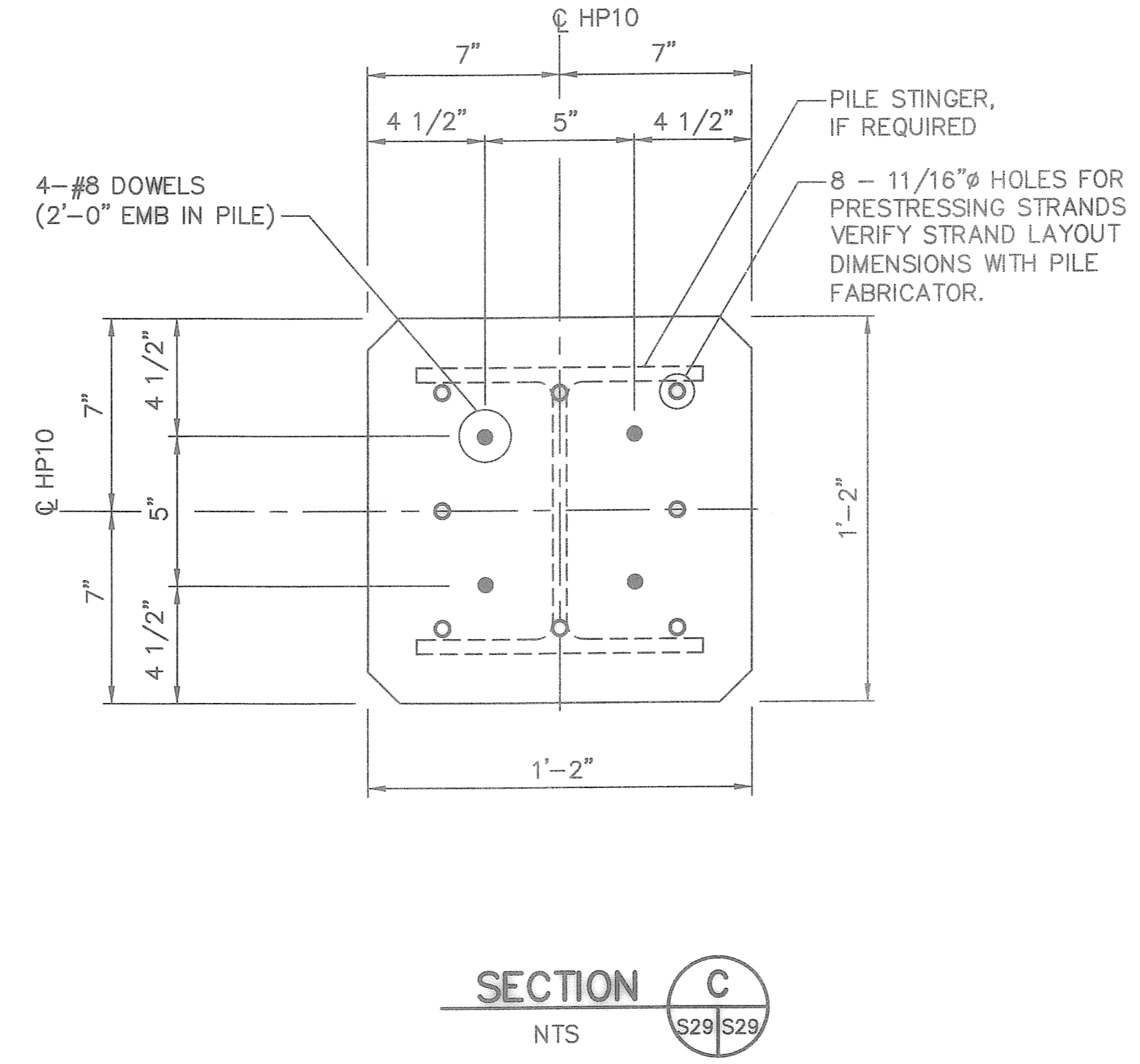
PILE DETAIL 1
NTS
S27, S28

- PRESTRESSED CONCRETE PILE NOTES**
- CONCRETE:
 - $f_c = 4000$ PSI @ TRANSFER
 - $f_c = 4000$ PSI @ TIME OF MOVING PILE
 - $f_c = 6000$ PSI @ 28 DAYS & TIME OF DRIVING PILE
 - REINFORCING:
 - PRESTRESSING STEEL SHALL CONFORM TO ASTM A416 GRADE 270.
 - MILD STEEL DOWEL - ASTM A615, GRADE 60.
 - FINAL STRESS IN PRESTRESSING STEEL
AFTER ALL LOSSES = 165 KSI
ESTIMATED LOSSES = 41 KSI
 - UNFORMED SURFACE OF PILE SHALL HAVE A SMOOTH TROWELED SURFACE.
 - SEE PLANS & SPECIFICATIONS FOR ESTIMATED PILE TIP & CUT-OFF ELEVATIONS.
 - PILE TYPE & LOCATION ARE SHOWN ON DETAILS. DRAWINGS OF FINAL PILE LOCATIONS SHALL BE PROVIDED TO THE ENGINEER. ALL PILES SHALL BE SELECTED FROM THE FDOT QUALIFIED PRODUCTS LIST, APPROVED BY THE ENGINEER.
 - IN CUTTING OFF CONCRETE PILES, AN ABRASIVE SAW SHALL BE USED TO SCORE THE CONCRETE AT THE CUT-OFF ELEVATION TO THE APPROXIMATE DEPTH OF REINFORCING STEEL.
 - PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 40 TONS
 - PILE STINGER REQUIRED IF PILE SHALL BE DRIVEN INTO ROCK LAYER. PREDRILLING MAY BE USED IN LIEU OF STINGER. PILE DRIVING SHALL BE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

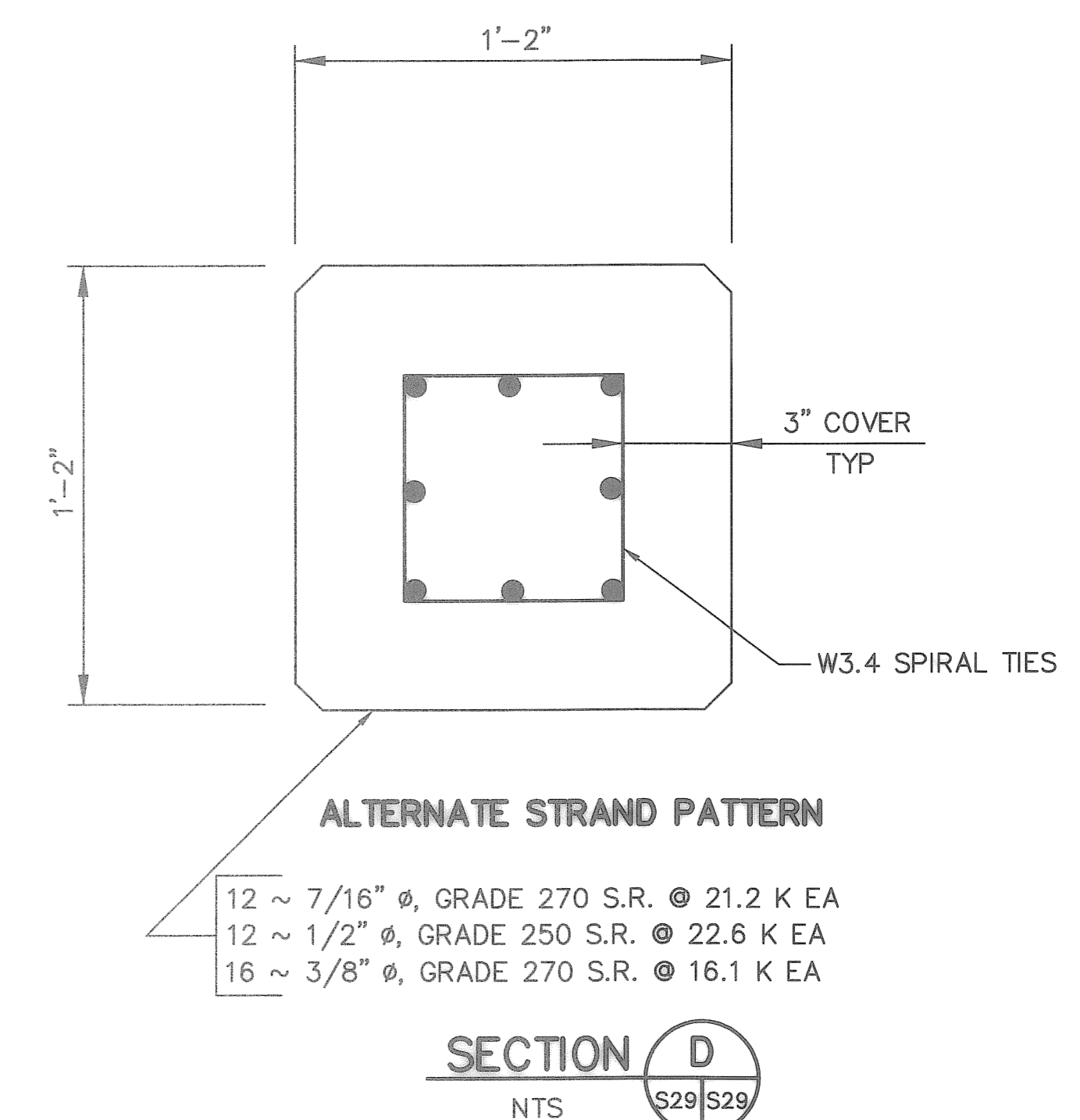


SECTION A
NTS
S29 S29

SECTION B
NTS
S29 S29



SECTION C
NTS
S29 S29



SECTION D
NTS
S29 S29

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWINGS

DESIGNED BY: JAM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: AGS	DATE: 10/2006			
CHECKED BY: JDM	DATE: 10/2006			
FIELD BOOK No.	PAGE THRU			
BIM No.	EL			
LOCATION:				

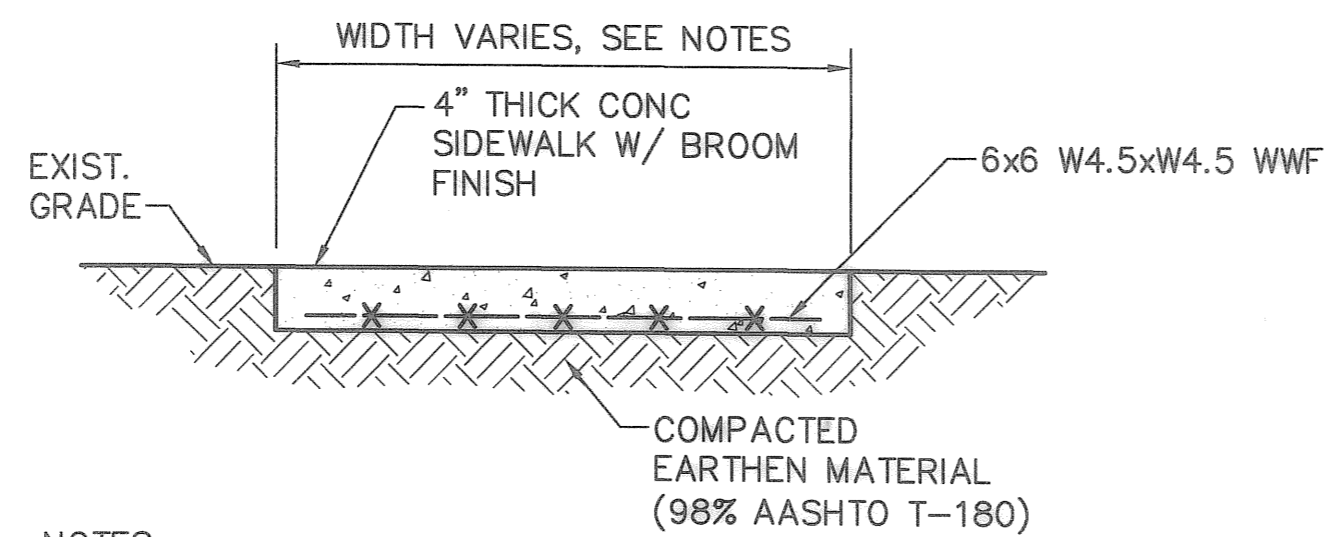
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CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
PRESTRESSED CONCRETE
PILE DETAILS

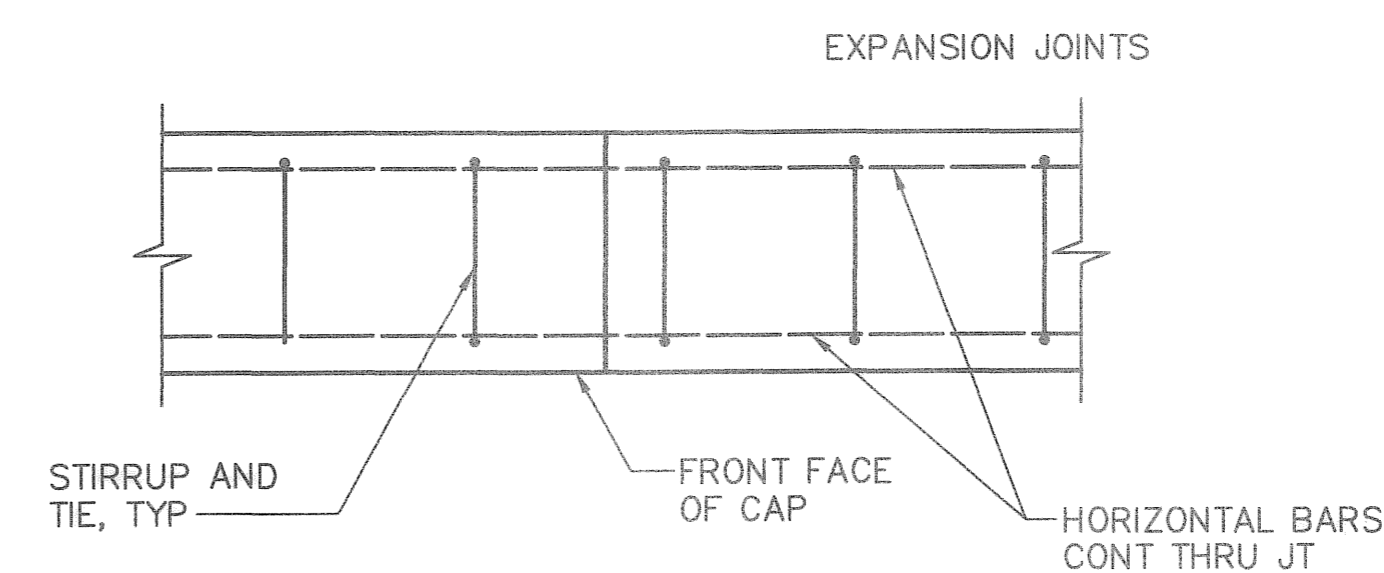
DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-44
SHEET No. S29

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

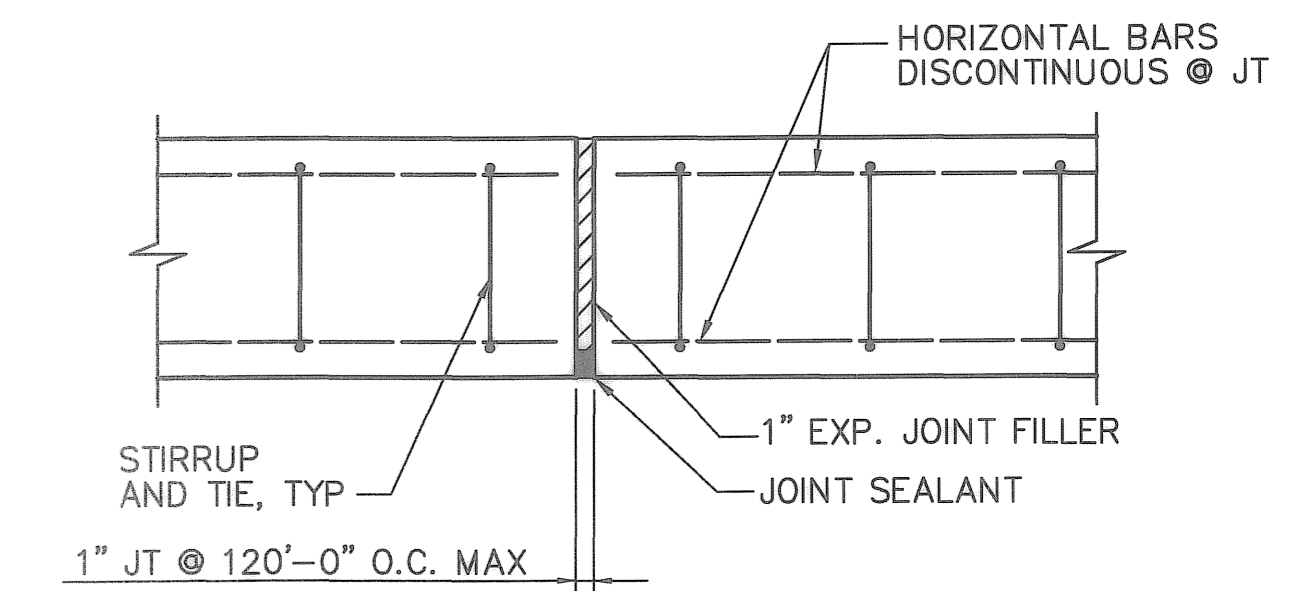


- NOTES:**
1. PROVIDE EXPANSION JOINT BETWEEN SIDEWALK AND SEAWALL CAP.
 2. SIDEWALK SLOPE SHALL NOT EXCEED 2%.
 3. TRANSITION 6'-0" WIDE SIDEWALK TO MATCH 8'-0" MAIN PIER WITHIN 12 LINEAR FEET.
 4. EXPANSION JOINTS SHALL BE INSTALLED AT 50' MAXIMUM SPACING.
 5. EXPANSION JOINTS SHALL CONSIST OF CONTINUOUS 1/2"x6" MINIMUM, BITUMINOUS EXPANSION STRIP.
 6. CONTROL JOINTS SHALL BE TOOLED 3/4" DEEP AND EVENLY SPACED BETWEEN EXPANSION JOINTS, BUT NOT EXCEEDING 6'-0".

CONCRETE SIDEWALK DETAIL 3
1"=1'-0" S28 S30



CONSTRUCTION JOINT

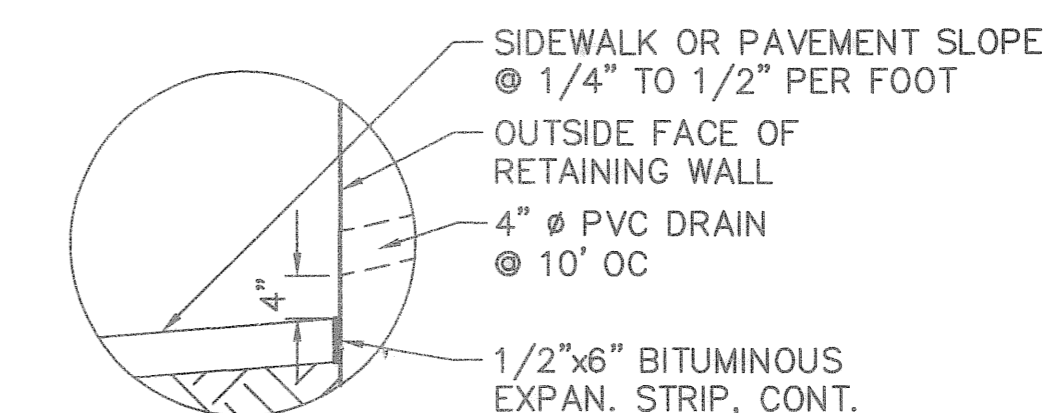


EXPANSION JOINT

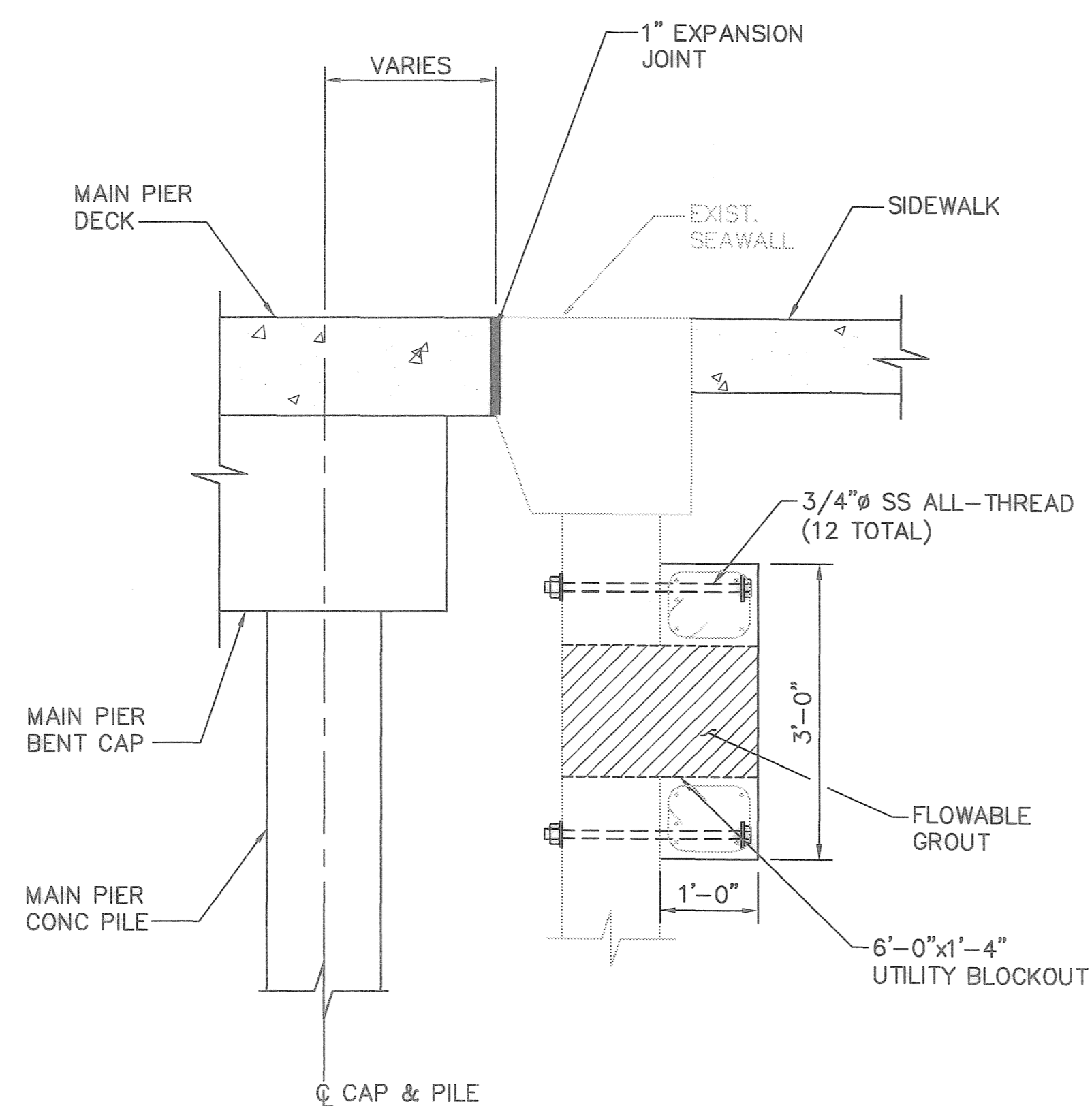
JOINT DETAILS 4

NTS

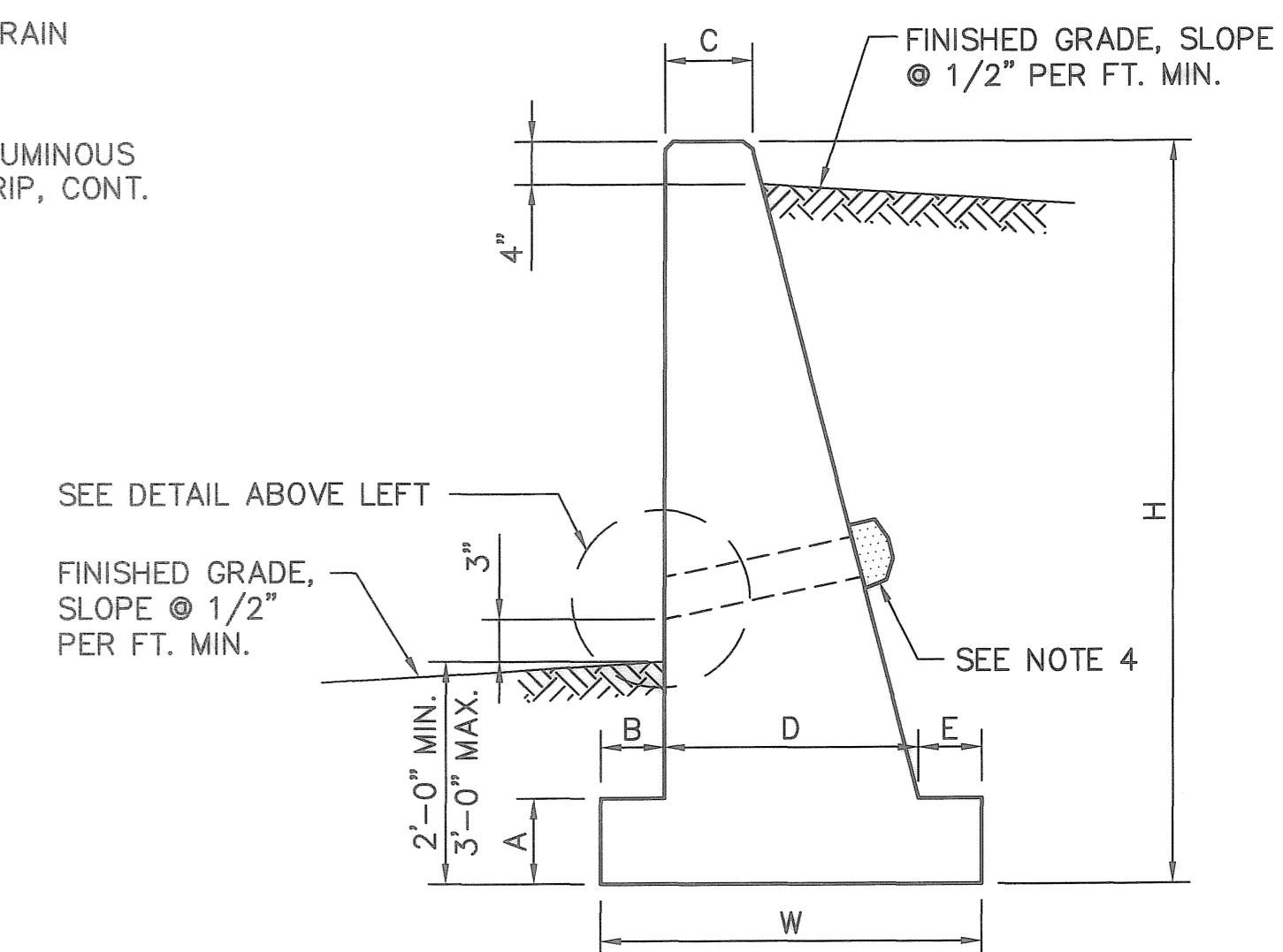
S28 S30



VIEW W/ SIDEWALK



SEAWALL PENETRATION DETAIL 2
3/4"=1'-0" S28 S30



TYPICAL SECTION VIEW

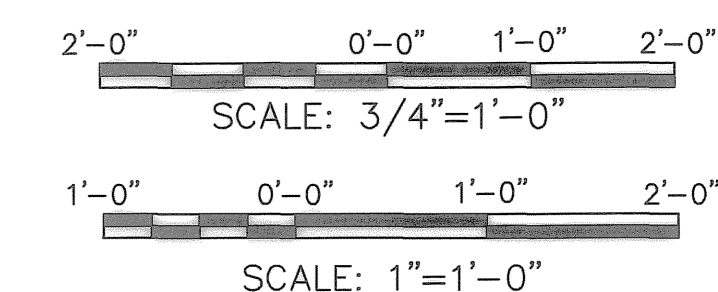
SCHEDULE						
H	A	B	C	D	E	W
5'-0"	8"	6"	8"	2'-0"	6"	3'-0"
6'-0"	8"	6"	8"	2'-6"	6"	3'-6"
7'-0"	8"	8"	8"	3'-4"	6"	4'-6"
8'-0"	8"	10"	8"	4'-0"	6"	5'-4"
9'-0"	8"	12"	8"	4'-9"	6"	6'-3"
10'-0"	8"	1'-2"	10"	5'-8"	6"	7'-4"

- NOTES:**
1. DESIGN BASED ON WEIGHT OF EARTH AT 120 p.c.f., FRICTION ANGLE OF 35°, AND 2' LIVE SURCHARGE.
 2. DESIGN BASED ON 4,000 p.s.i. CONCRETE AND SOIL BEARING CAPACITY OF 2000 p.s.f.
 3. CONTRACTION JOINTS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30' ON CENTER AND EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 90' ON CENTER.
 4. EACH 4" WEEP DRAIN SHALL HAVE A MINIMUM OF 2 CUBIC FOOT OF COURSE AGGREGATE WRAPPED IN FILTER FABRIC. FILTER FABRIC TO BE MIRAFI 140N OR EQUAL.
 5. ALL EXPOSED EDGES TO HAVE 3/4" CHAMFER.
 6. WHEN HEIGHT FROM TOP OF WALL TO FINISHED GRADE OR SIDE WALK EXCEEDS 2'-6" A HANDRAIL IS REQUIRED. SEE FDOT DESIGN STANDARD INDEX NO. 870 FOR REQUIREMENTS. HANDRAIL SHALL BE ALUMINUM PIPE TYPE. DETAIL PROVIDED BY CITY, COSP STANDARD DRAWING NO. S10-24, MARCH 2006 REVISION.

TYPE IV RETAINING WALL DETAIL 5

NTS

S28 S30



DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWINGS

DESIGNED BY:	JAM	DATE:	10/2006
DRAWN BY:	AGS	DATE:	10/2006
CHECKED BY:	JDM	DATE:	10/2006
FIELD BOOK No.		PAGE	THRU
BM No.		EL.	
LOCATION:			

REVISIONS		BY	DATE
RECORD DRAWINGS		JAM	07/30/08

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813-258-8818

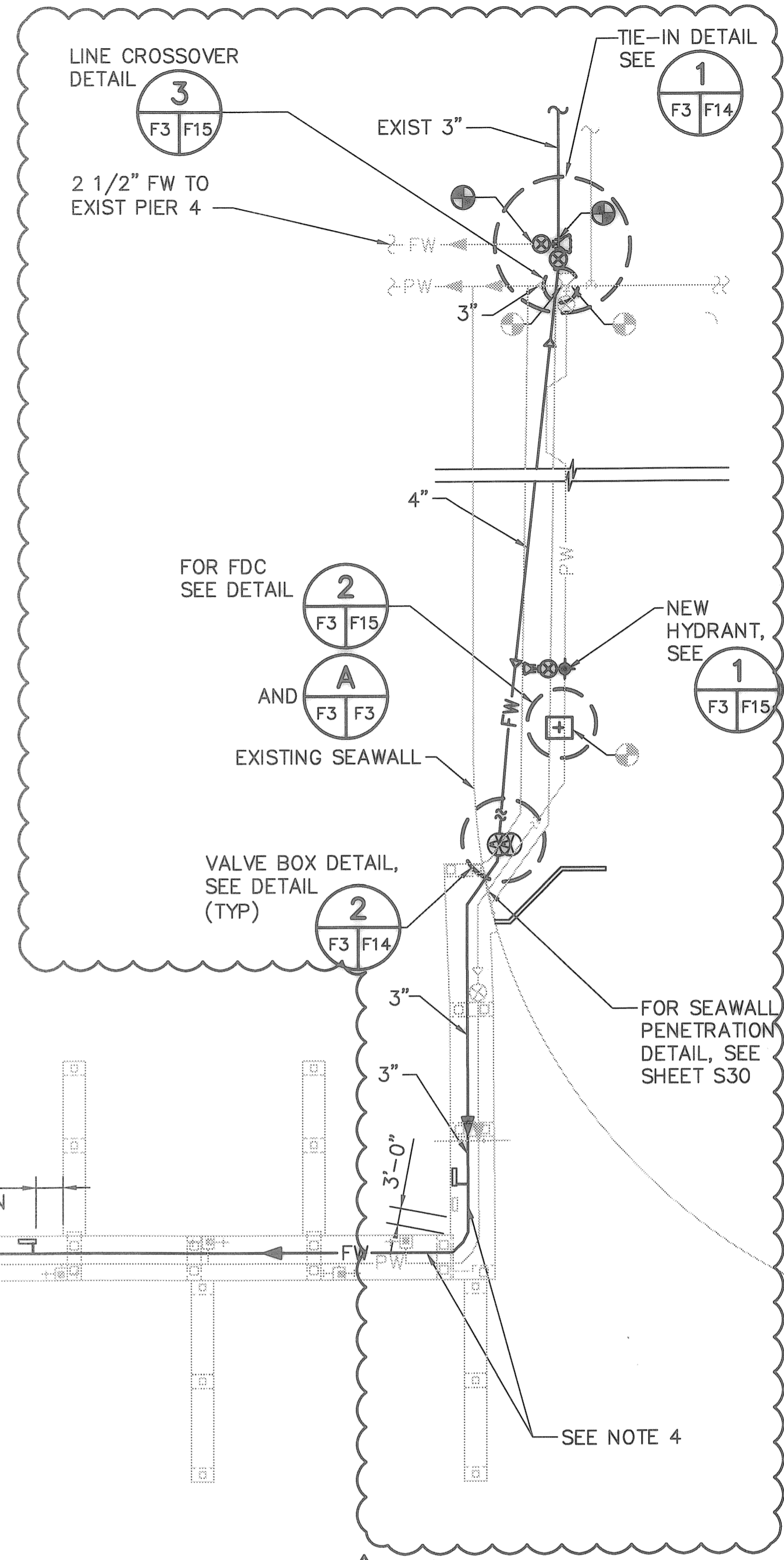
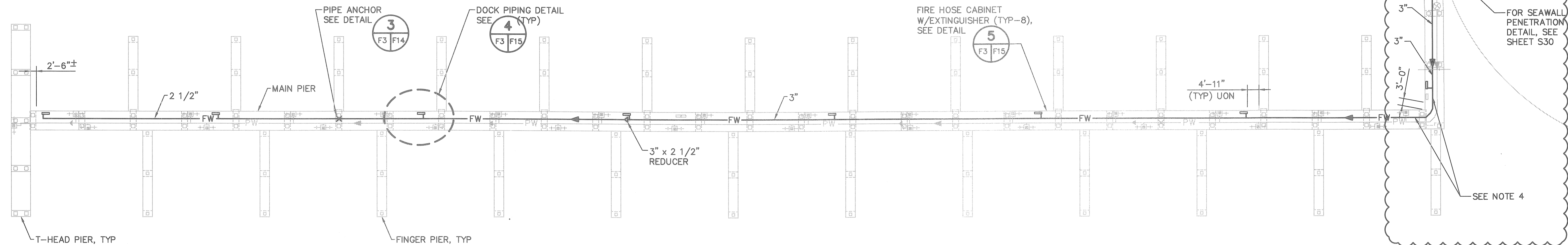
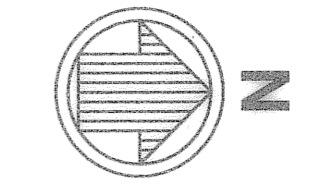
ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG

**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217**

MISCELLANEOUS DETAILS

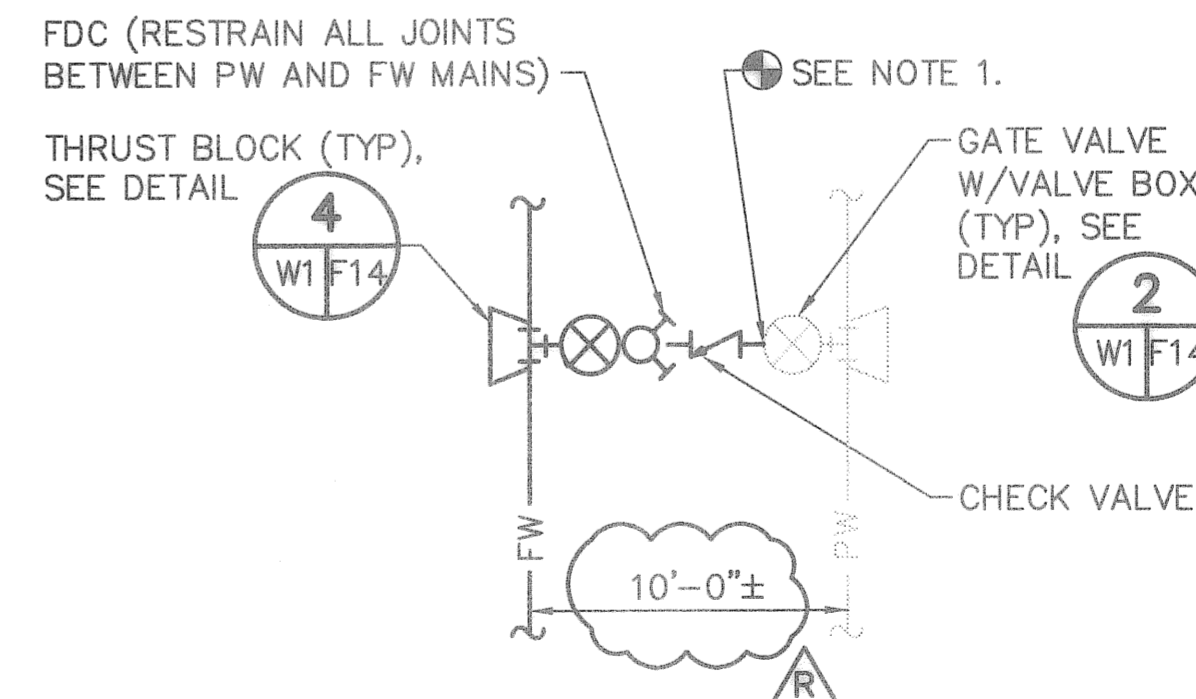
DATE: JULY 2008
SCALE: NONE
DRAWING No. 10175-45
SHEET No. S30

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LEGEND (PARTIAL)

- PILE (FOR REFERENCE)
- +□+ UTILITY PEDESTAL WITH DUAL HOSE BIBBS
- +□ UTILITY PEDESTAL WITH SINGLE HOSE BIBB
- × PIPE ANCHOR
- POINT OF CONNECTION
- ▭ FIRE HOSE CABINET WITH EXTINGUISHER
- REDUCER
- ⌞ CHECK VALVE
- ⊗ GATE VALVE
- PIPE FLOW DIRECTION



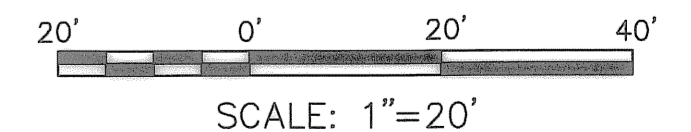
NOTE:
1. BLIND FLANGES SHALL BE TEMPORARILY INSTALLED ON ALL VALVES OR PIPING FLANGES IF THE CROSS CONNECTION IS NOT INSTALLED COMPLETE AT THE SAME TIME.

FIREWATER PLAN – PIER NO. 5 1
1"=20' X5 F3

LINE CONNECTION DETAIL A
NTS F3 F3

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-BUILTS SUBMITTED BY MMCI IN JUNE, 2008.



DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

RECORD DRAWINGS

JULIA HORNBY, P.E. DATE
FLORIDA LICENSED PROFESSIONAL ENGINEER No. 0062304

REVISIONS	BY	DATE
RECORD DRAWINGS	JAM	07/30/08

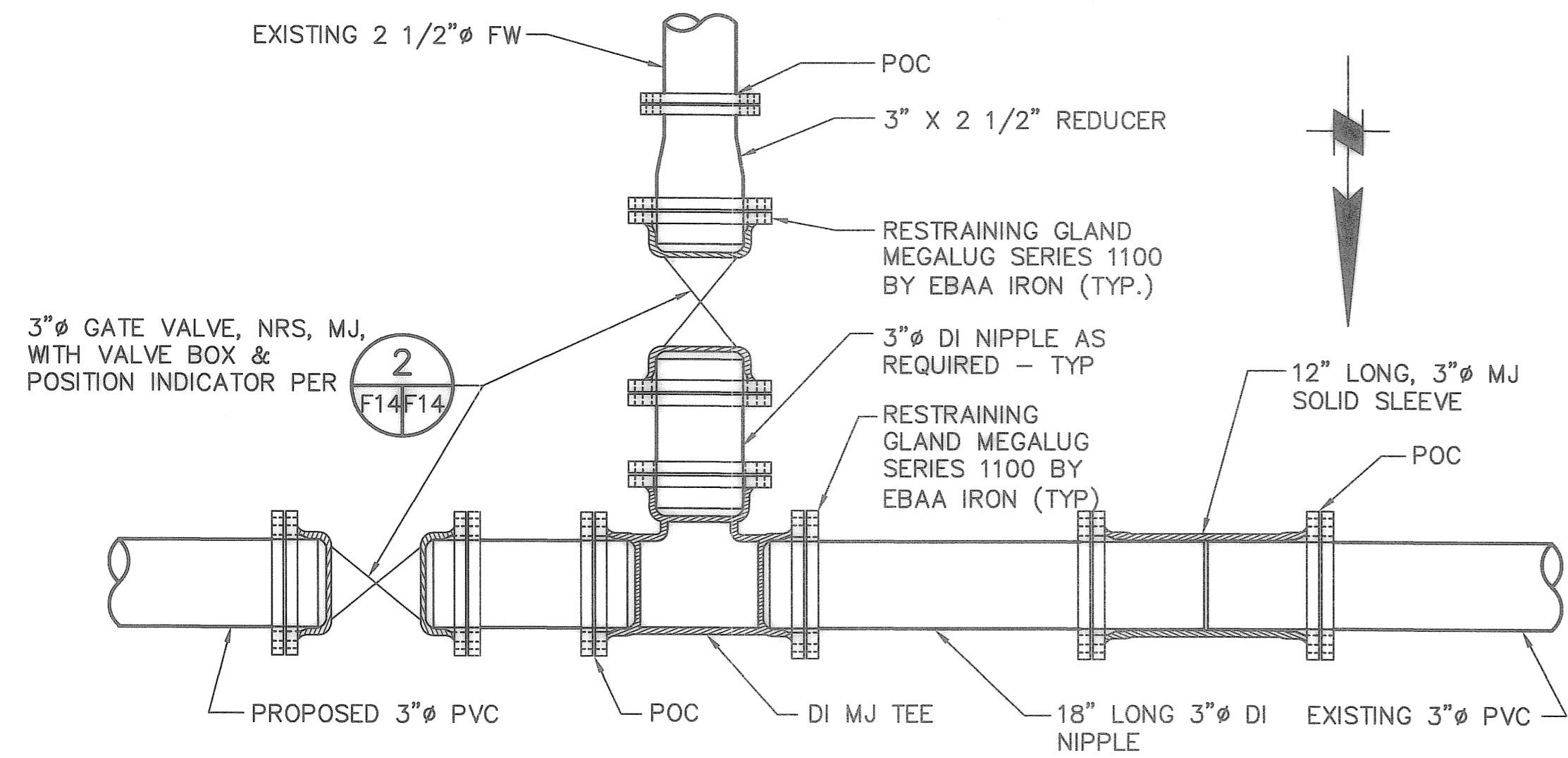
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1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT No. 01074-217**

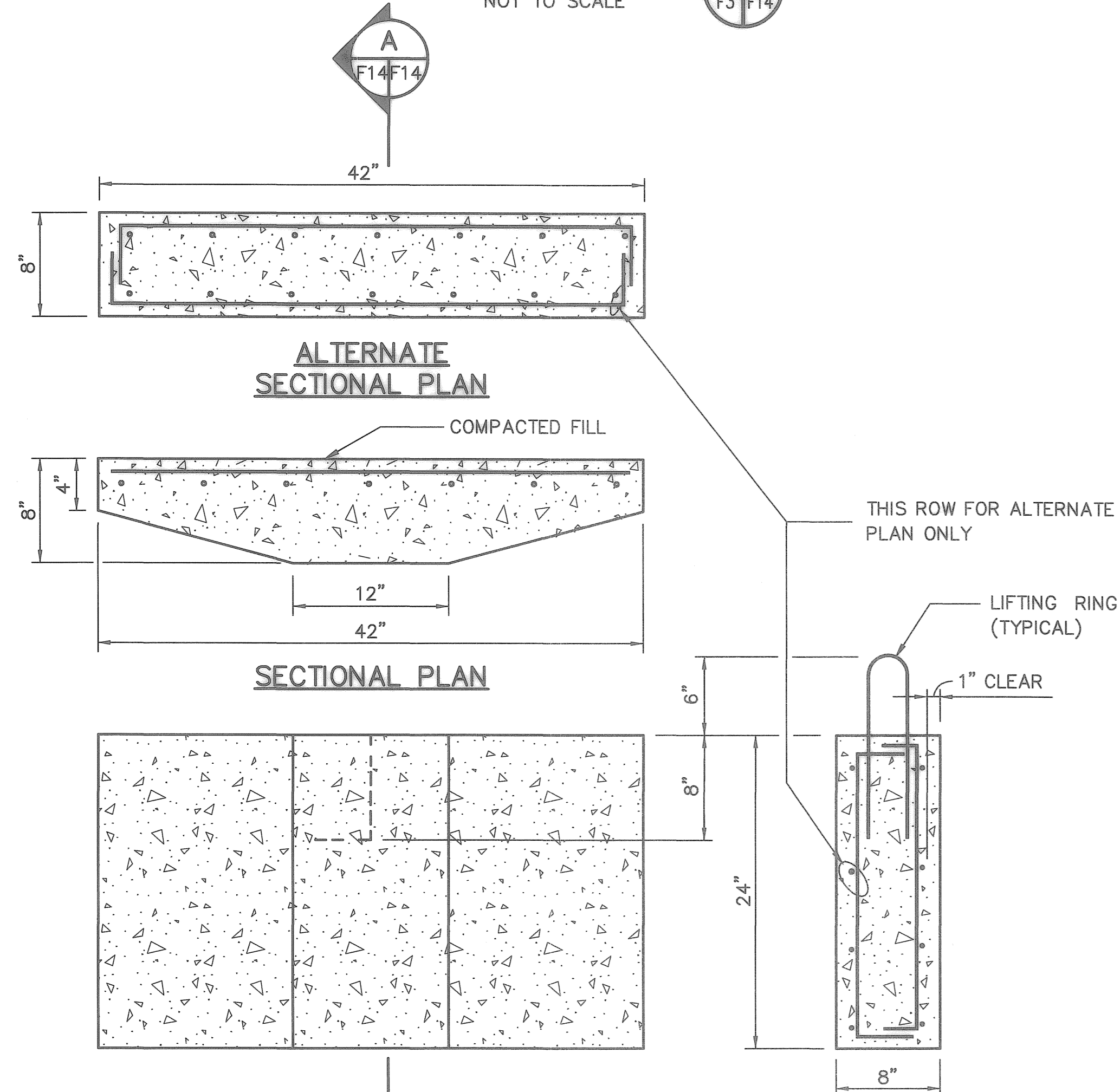
**FIREWATER PLAN
PIER NO. 5**

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-48
SHEET No. F3



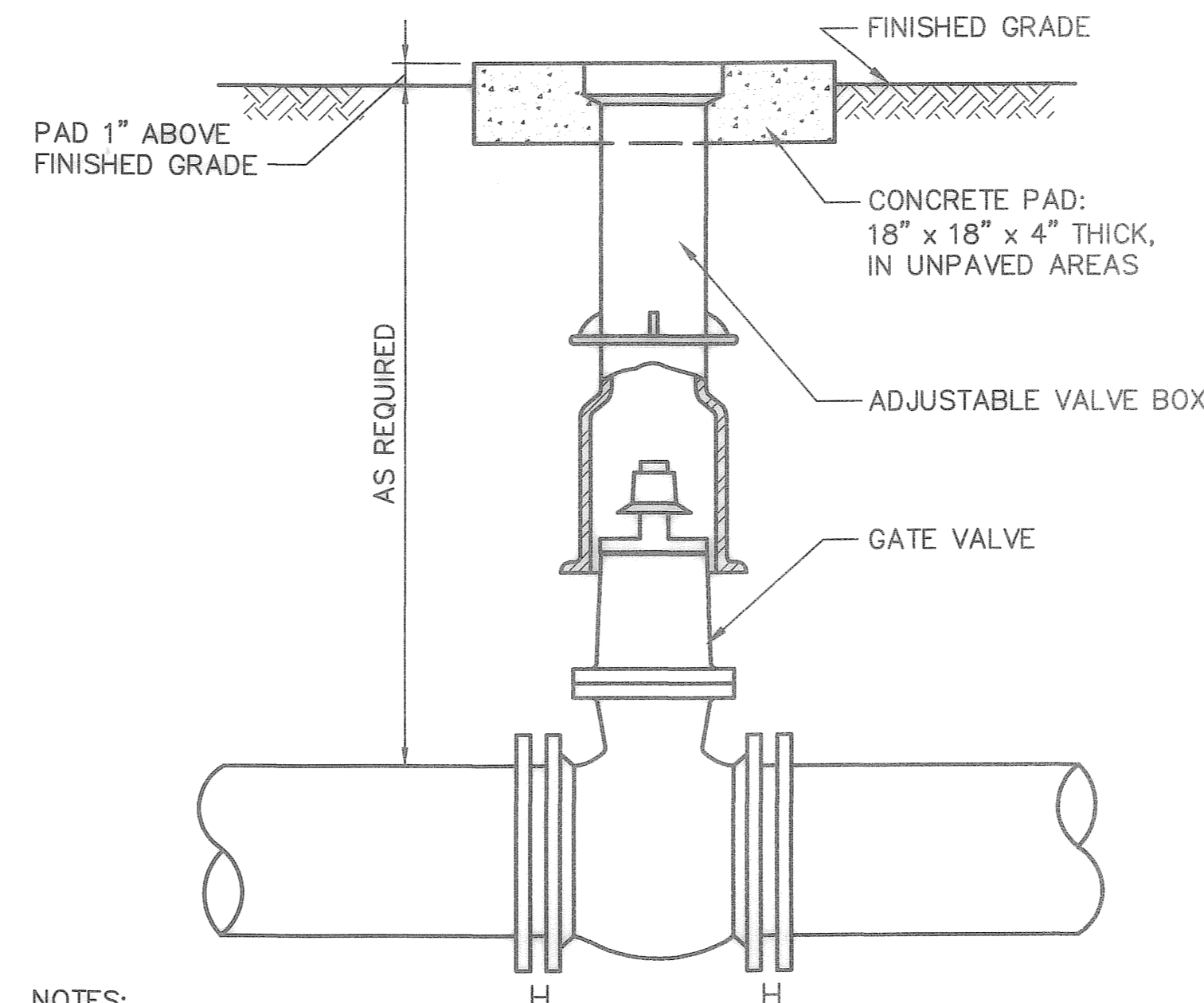
- NOTES:**
1. RESTRAIN JOINTS PER CITY STANDARDS
 2. DI-PVC TRANSITION ADAPTOR REQUIRED AT DI-PVC POINT OF CONNECTIONS. DIELECTRIC ISOLATION FITTINGS REQUIRED AT DISSIMILAR MATERIAL CONNECTIONS.

TIE-IN DETAIL 1
NOT TO SCALE



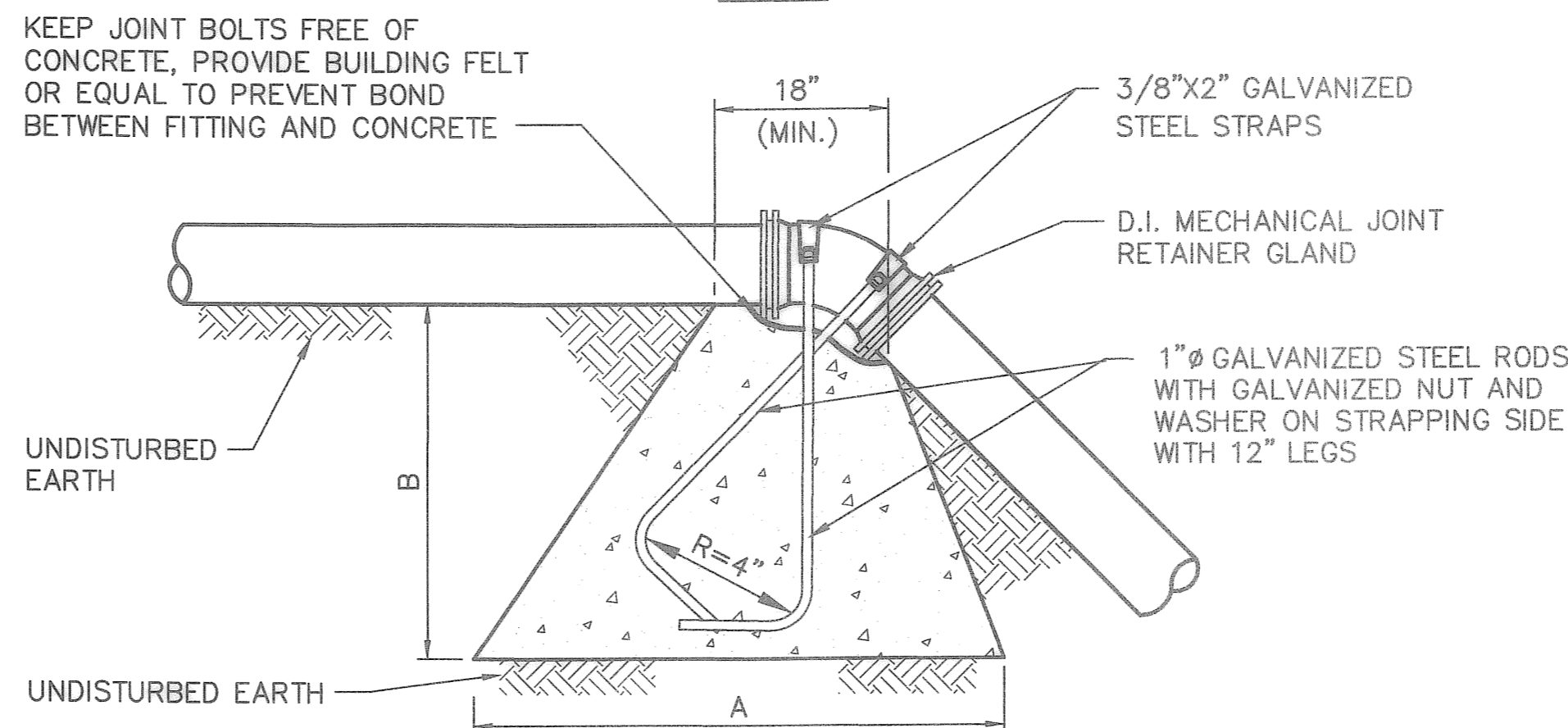
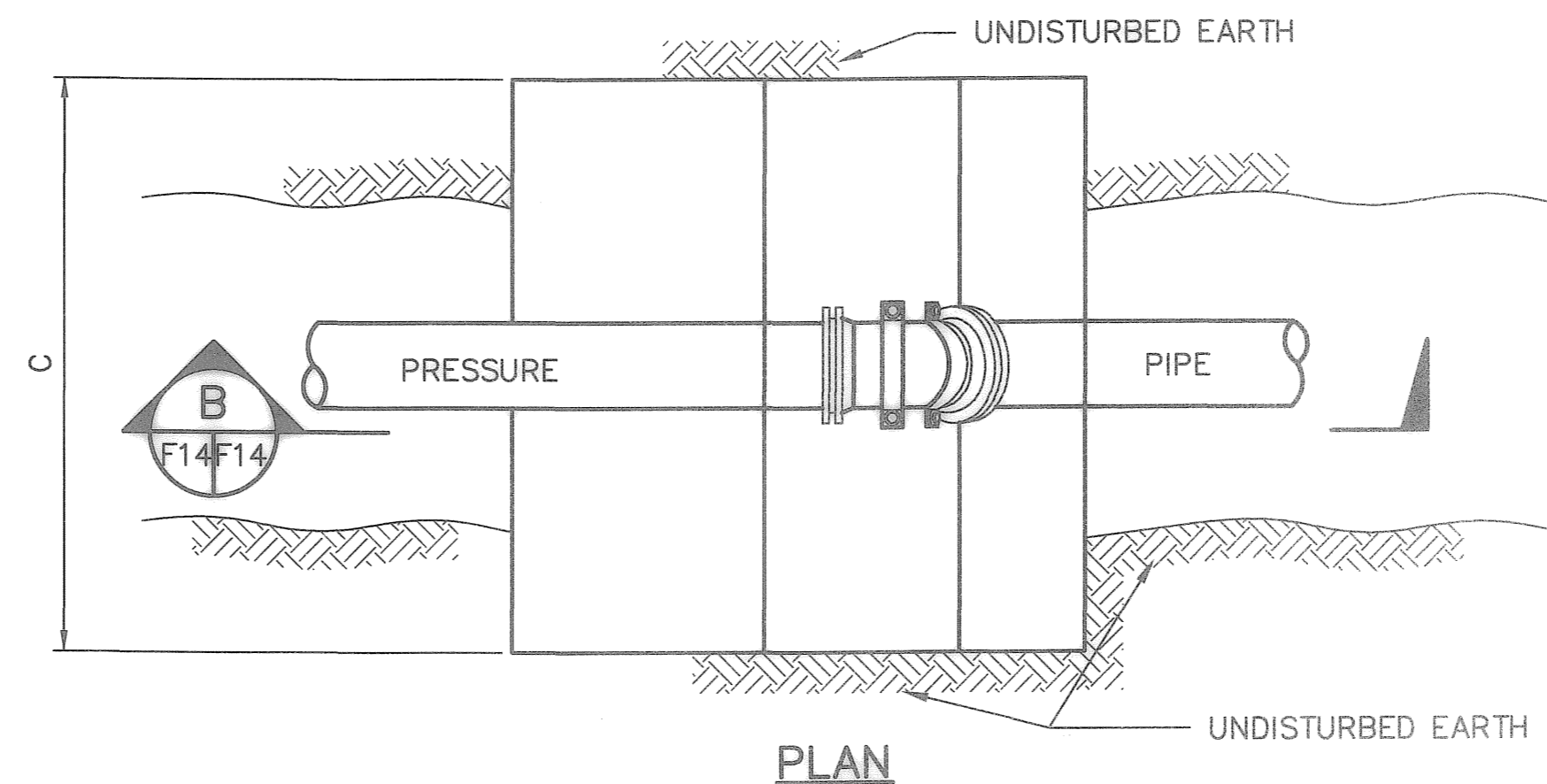
- NOTES:**
1. BLOCK MAY BE TAPERED OR STRAIGHT, AT THE CONTRACTOR'S OPTION.
 2. REINFORCEMENT TO BE: # 4 @ 6" E/W.
 3. FLAT SIDE OF THRUST BLOCK SHALL BE PLACED AGAINST SOIL COMPACTED TO 100% DENSITY.
 4. USE WHERE SPECIFIED AND/OR ORDERED. 4" THRU 10" PRESSURE PIPE ONLY.

PRE-CAST THRUST BLOCK DETAIL 4
NOT TO SCALE



- NOTES:**
1. H = HARNESSED JOINT. (MECHANICAL JOINT W/ D.I. RETAINER GLAND).
 2. ASSEMBLY AS SHOWN IS FOR A 4" AND LARGER GATE VALVE, TAPPING VALVE, BUTTERFLY VALVE AND PLUG VALVE ARE SIMILAR.
 3. 2" VALVE, JOINT ENDS SHALL BE THREADED.

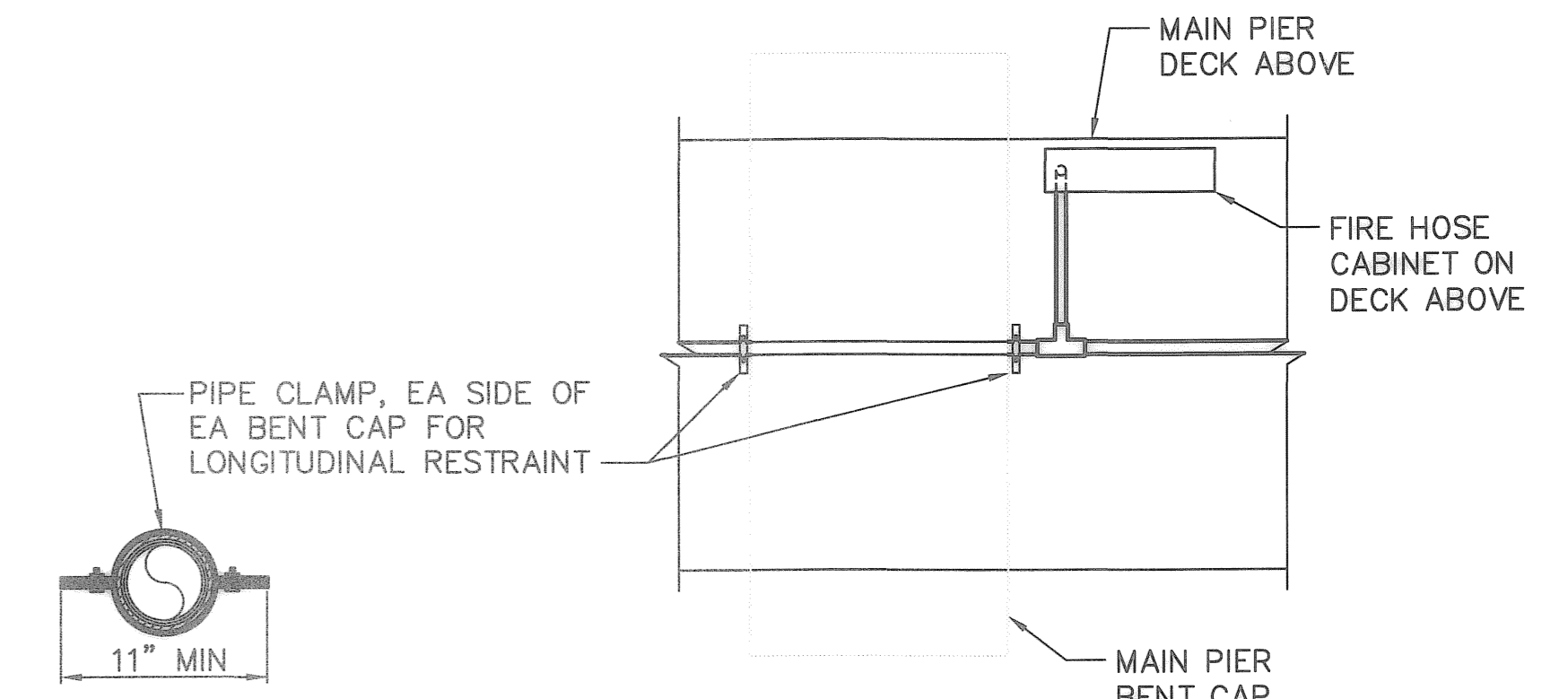
VALVE BOX DETAIL 2
NOT TO SCALE



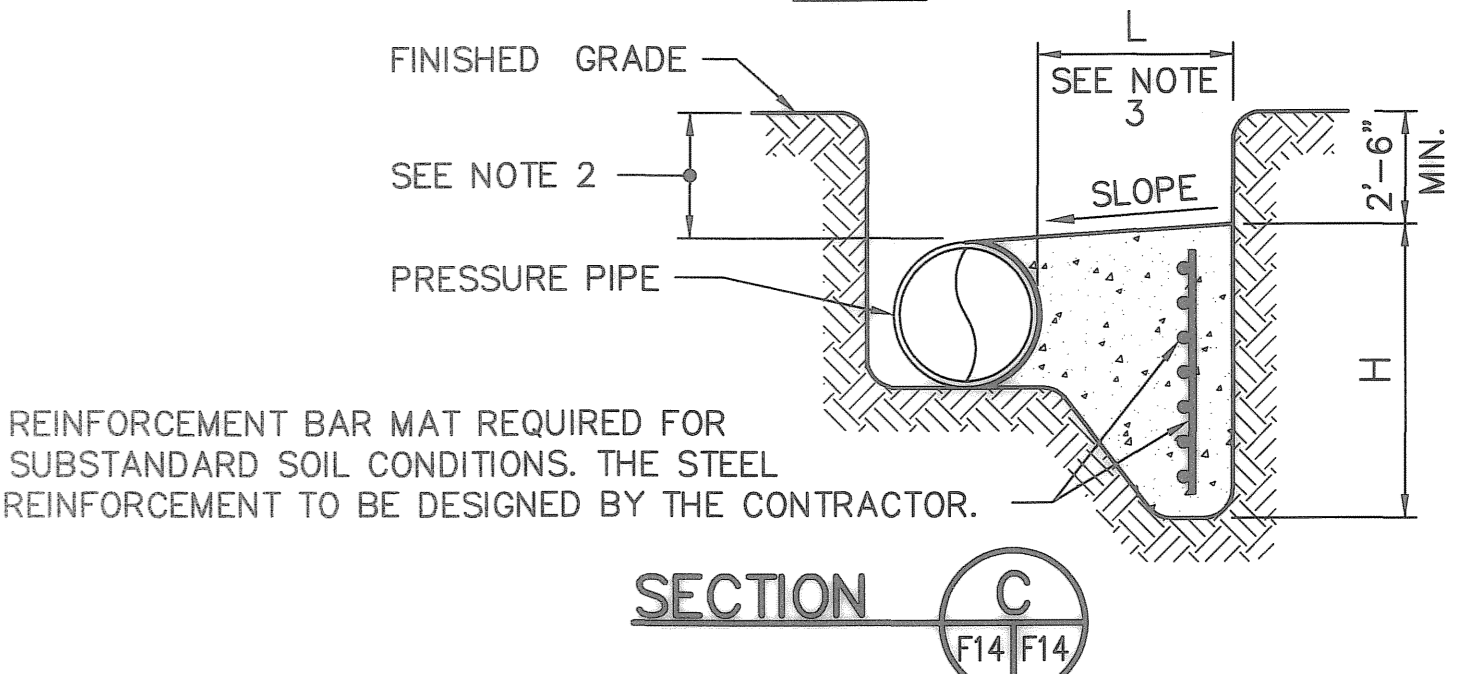
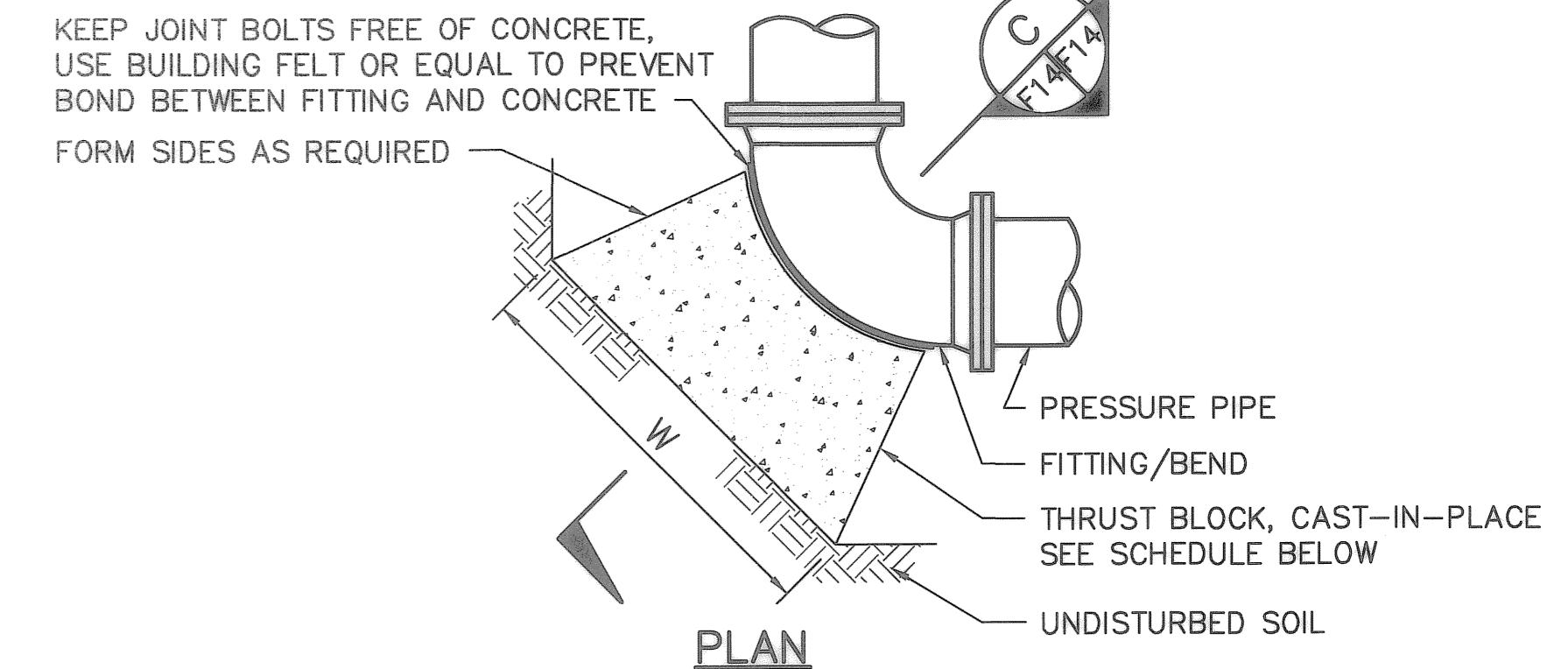
45° BEND			
	A	B	C
6"	42"	28"	48"

SECTION B
NOTE:
DETAIL PRESENTED IN CASE SUCH FIELD CONDITIONS OCCUR.

CAST-IN-PLACE VERTICAL THRUST ANCHOR DETAIL 5
NOT TO SCALE



PIPE ANCHOR DETAIL 3
NOT TO SCALE



REINFORCEMENT BAR MAT REQUIRED FOR SUBSTANDARD SOIL CONDITIONS. THE STEEL REINFORCEMENT TO BE DESIGNED BY THE CONTRACTOR.

SCHEDULE

PRESSURE PIPE SIZE	FITTING/BEND ANGLE				THRUST BLOCK DIMENSIONS				TEE OR PLUG	
	11-1/4°	22-1/2°	45°	90°	H	W	H	W	H	W
6"	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	2'-6"	2'-0"	3'-6"	1'-6"	3'-0"

- NOTES:**
1. TEST PRESSURE IS 100 PSI FOR PW AND 200 PSI FOR FW.
 2. THRUST BLOCKS ARE DESIGNED FOR A MINIMUM 3' OF COVER OVER THE PIPE. IF LESS COVER EXISTS, BLOCKS SHALL BE ENLARGED AS DIRECTED BY THE ENGINEER.
 3. L=3' MINIMUM, POUR TO UNDISTURBED SOIL.

CAST-IN-PLACE HORIZONTAL THRUST ANCHOR DETAIL 6
NOT TO SCALE

RECORD DRAWINGS

DESIGNED BY:	DATE:	REVISIONS	BY	DATE
JULIA HORNBY, P.E. <td>10/2006</td> <td></td> <td></td> <td></td>	10/2006			
CHECKED BY: <td>DATE: <td></td> <td></td> <td></td> </td>	DATE: <td></td> <td></td> <td></td>			
FIELD BOOK No. <td>10/2006 <td></td> <td></td> <td></td> </td>	10/2006 <td></td> <td></td> <td></td>			
BM No. <td>PAGE <td></td> <td></td> <td></td> </td>	PAGE <td></td> <td></td> <td></td>			
LOCATION: <td>THRU <td></td> <td></td> <td></td> </td>	THRU <td></td> <td></td> <td></td>			
	EL. <td></td> <td></td> <td></td>			

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813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

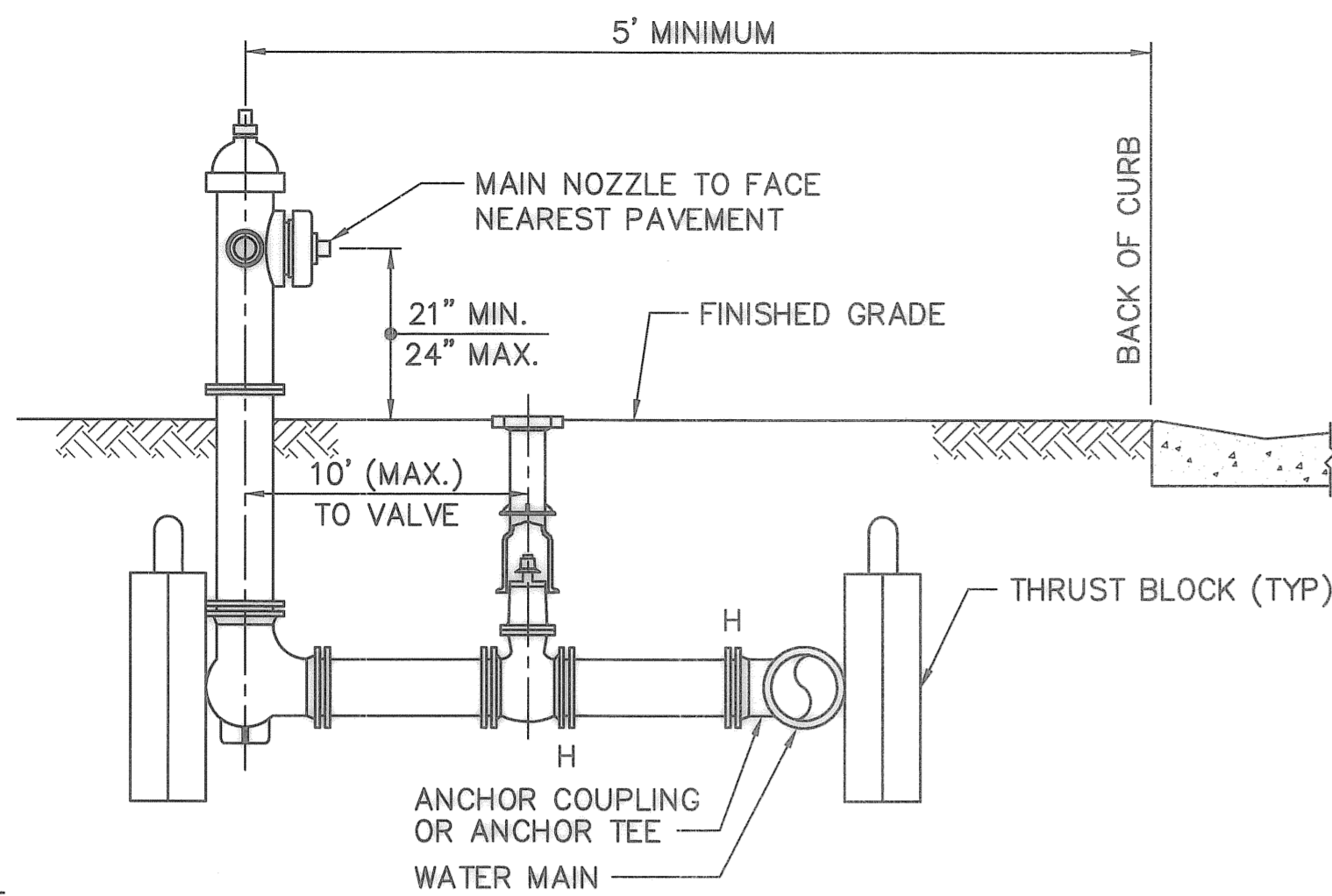
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217**

**FIREWATER DETAILS
SHEET 1 OF 2**

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-59
SHEET No. F14

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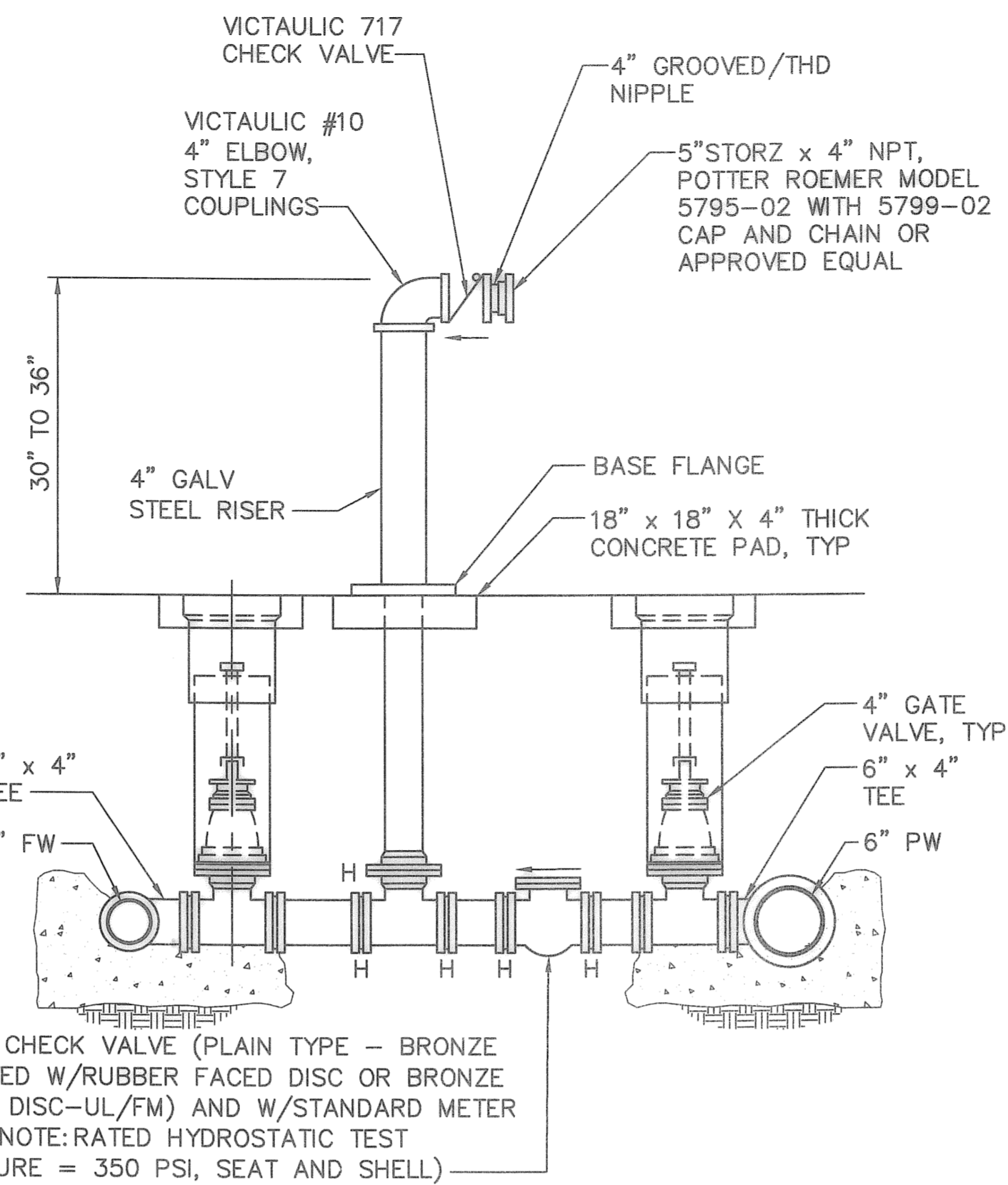
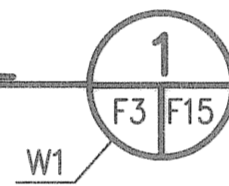


NOTES:

1. LOCATION OF HYDRANT AND VALVE TO BE DETERMINED IN FIELD. PROVIDE MIN 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 KEPT FREE OF DIRT.
5. INSTALL A VALVE KEY EXTENSION ROD TO WITHIN 12" OF FINISHED GRADE. DIAMETER OF EXTENSION ROD SHALL BE 1/8" LESS THAN THE DIAMETER OF THE VALVE STEM.
6. 12" DIA GATE BOX LID SHALL BE TRAFFIC WEIGHT CAST IRON. ONLY THE WORD "WATER" SHALL BE CAST INTO THE TOP.
7. CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST GATE BOX AND LID TO GRADE DURING EACH PAVING LIFT.
8. H = HARNESSSED JOINT (MECHANICAL JOINT W/ DI RETAINER GLAND)

STANDARD FIRE HYDRANT INSTALLATION DETAIL

NOT TO SCALE



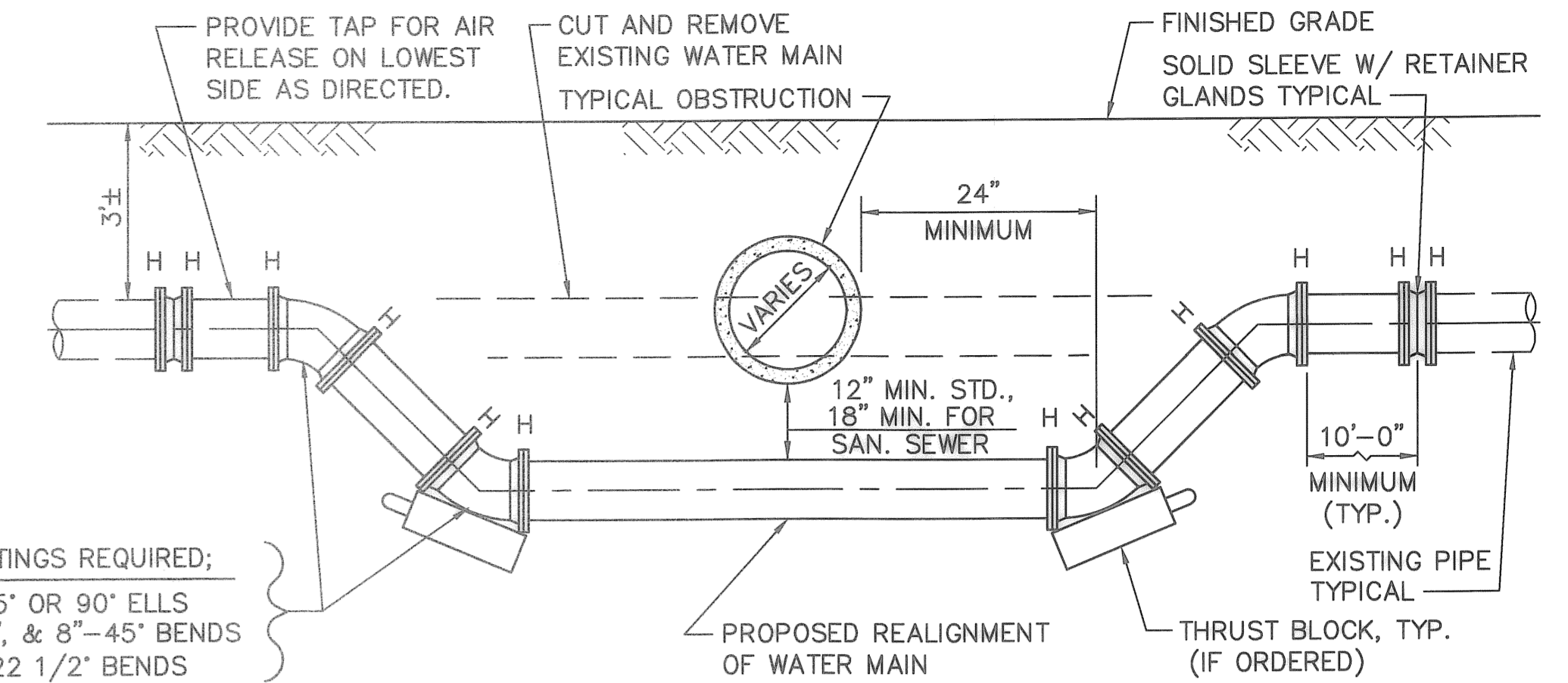
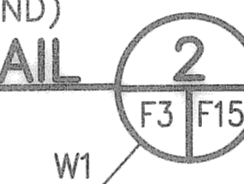
SWING CHECK VALVE (PLAIN TYPE - BRONZE MOUNTED W/RUBBER FACED DISC OR BRONZE FACED DISC-UL/FM) AND W/STANDARD METER BOX. (NOTE: RATED HYDROSTATIC TEST PRESSURE = 350 PSI, SEAT AND SHELL)

NOTE:

H = HARNESSSED JOINT (MECHANICAL JOINT W/ DI RETAINER GLAND)

FIRE DEPARTMENT CONNECTION DETAIL

NOT TO SCALE



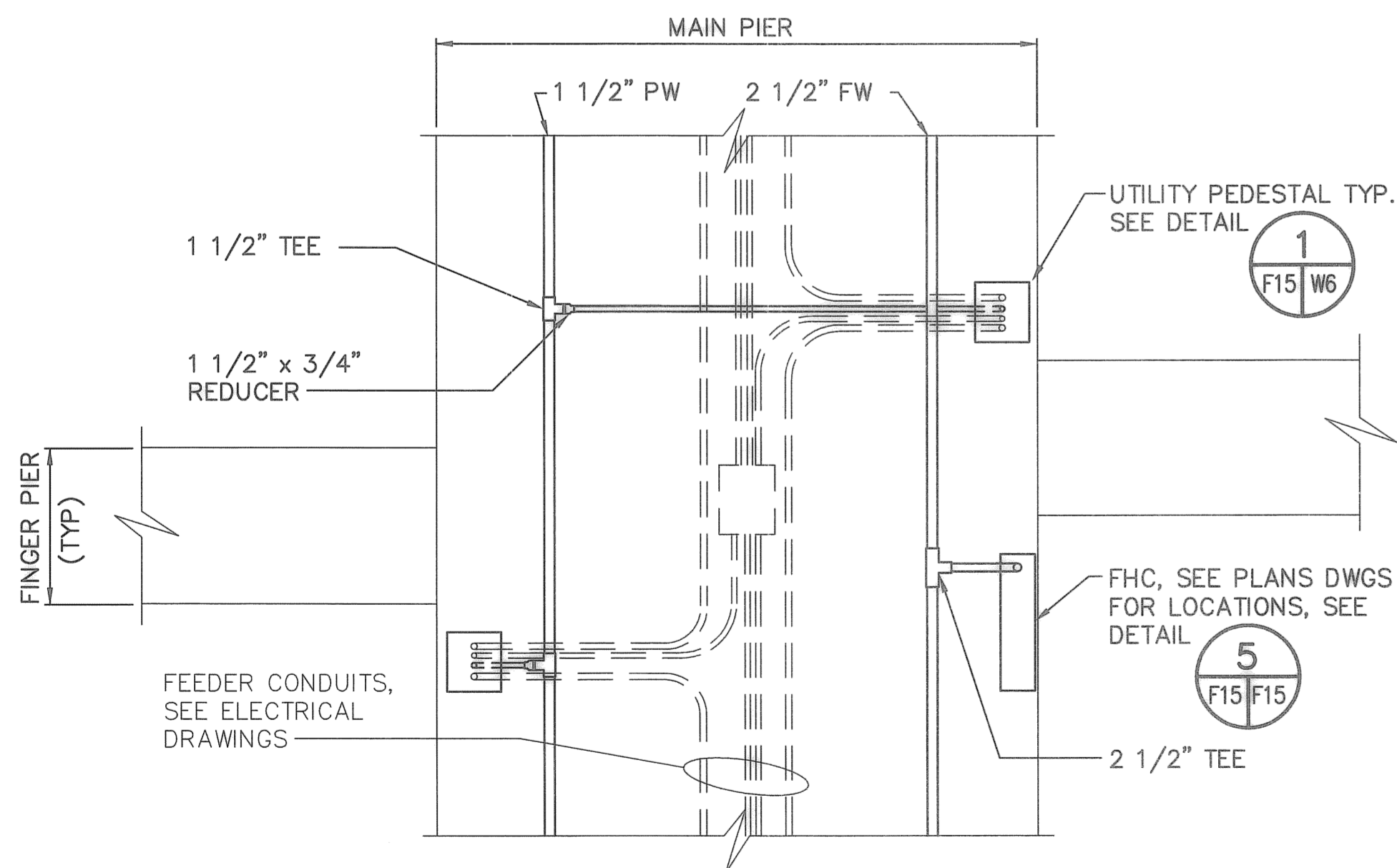
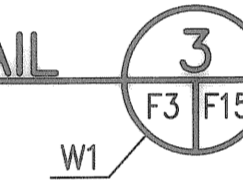
4 FITTINGS REQUIRED;
2"-45' OR 90' ELLS
4", 6", & 8"-45' BENDS
12"-22 1/2' BENDS

NOTES:

1. FOR 2" THROUGH 12" WATER MAIN.
2. ALL PIPE SHALL BE CUT AND PARTIALLY ASSEMBLED PRIOR TO THE CITY AUTHORIZING SHUTDOWN OF EXISTING MAIN(S) FOR TIE-IN.
3. SHUTDOWN PERIOD SHALL NOT EXCEED THREE (3) HOURS.
4. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED CITY CUSTOMERS PRIOR TO SHUTDOWN.
5. THE CONTRACTOR SHALL SWAB NEW PIPE AND FITTINGS WITH CHLORINE SOLUTION, AS DIRECTED.
6. H = HARNESSSED JOINT. (MECHANICAL JOINT W/ D.I. RETAINER GLAND) (NOT APPLICABLE TO 2" PIPE)
7. VERTICAL ADJUSTMENT MAY BE OVER AN OBSTRUCTION, IF MINIMUM PIPE COVER AND BOTTOM CLEARANCES ARE AVAILABLE.

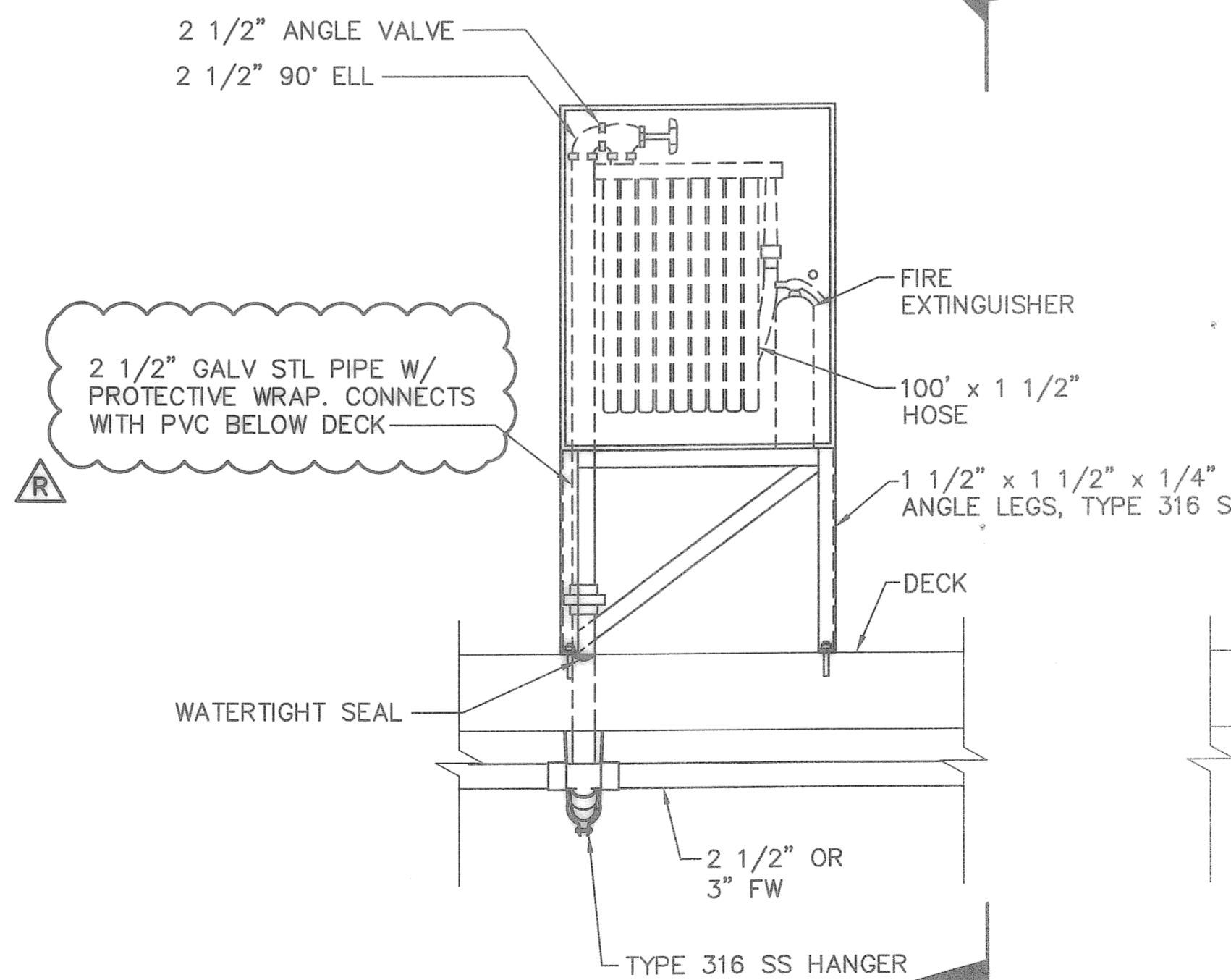
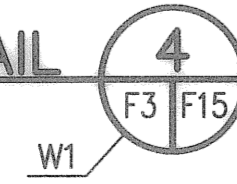
LINE CROSS OVER DETAIL

NOT TO SCALE



TYPICAL DOCK PIPING PLAN DETAIL

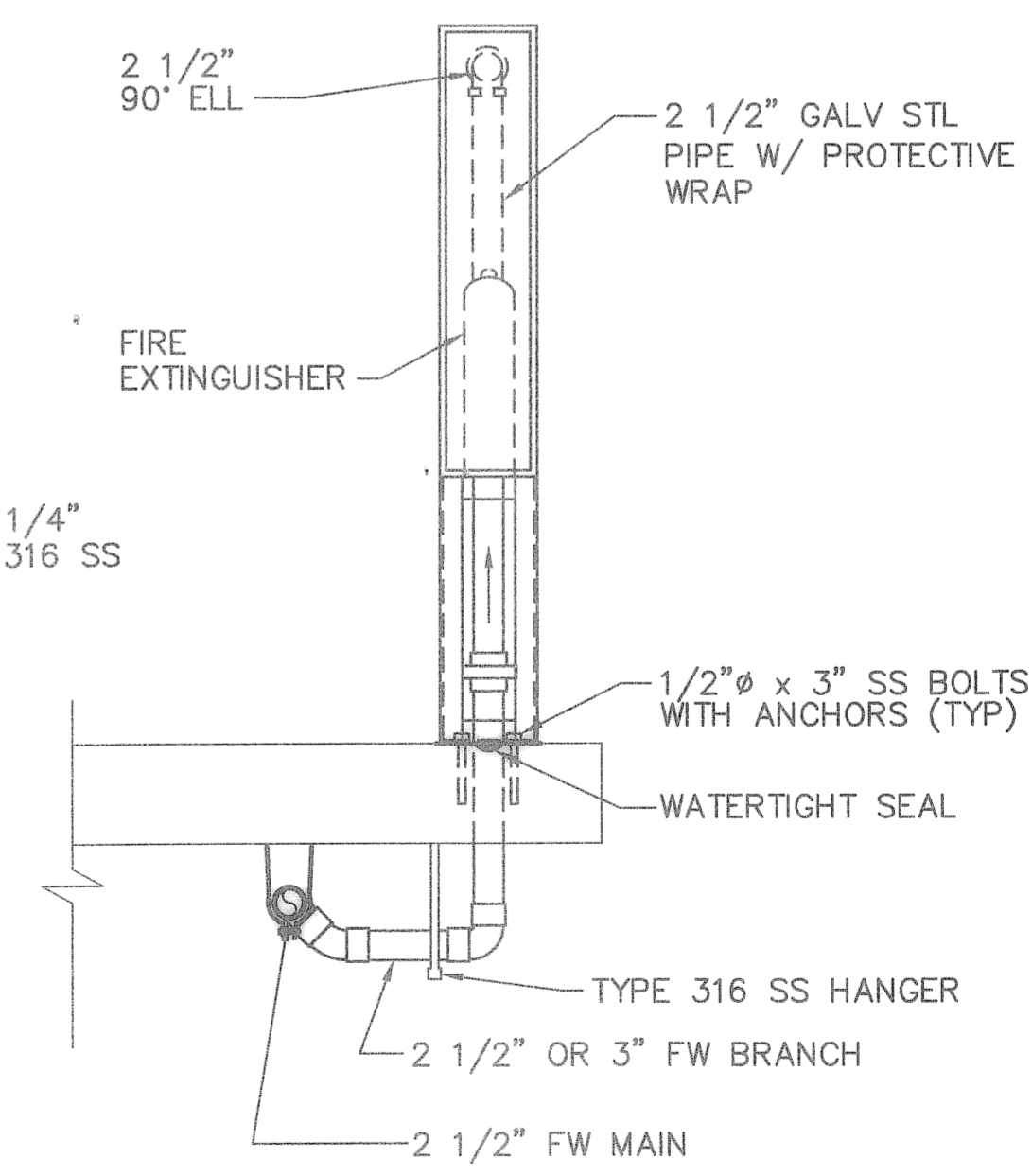
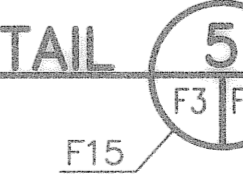
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ELEVATION

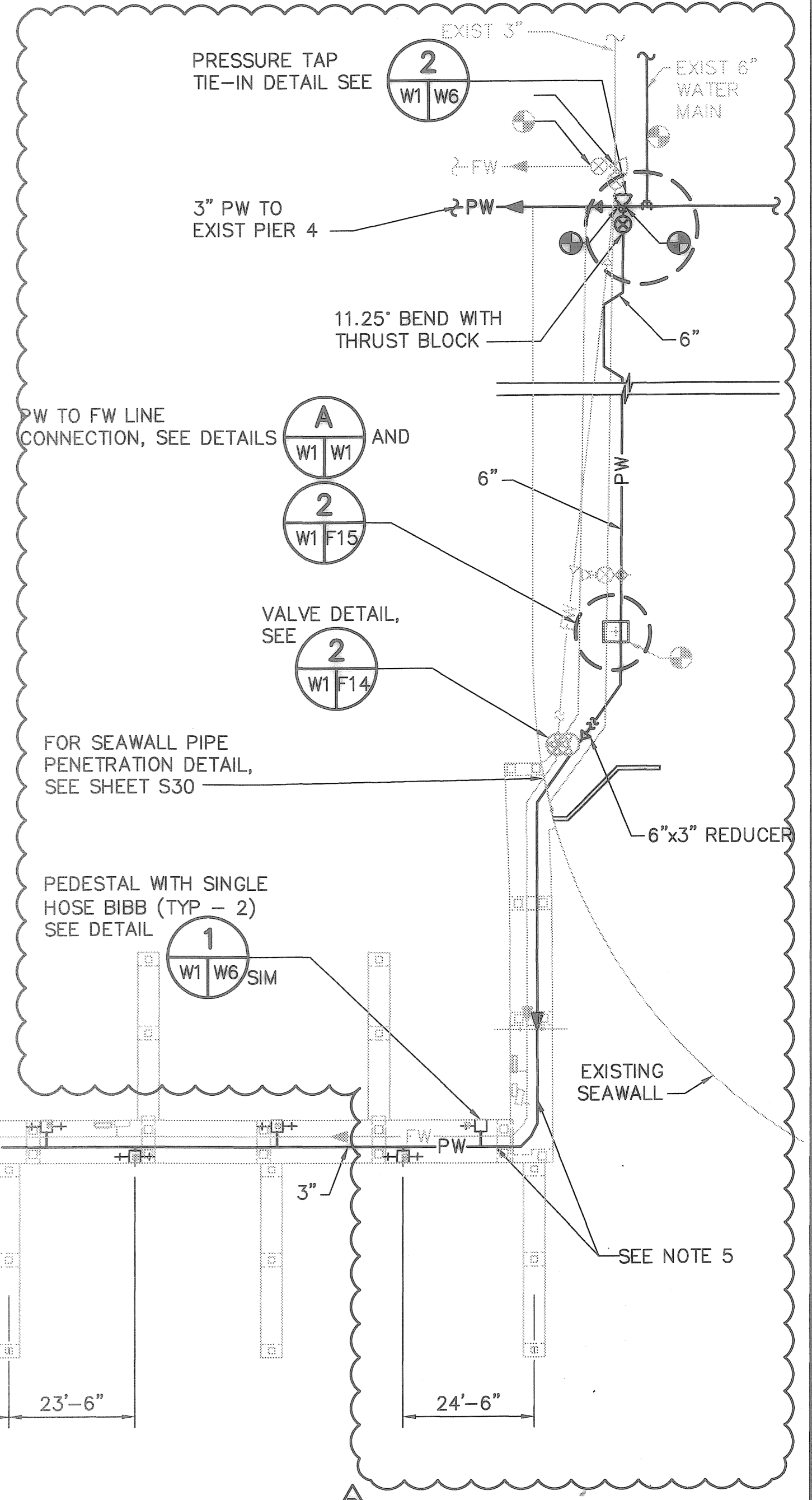
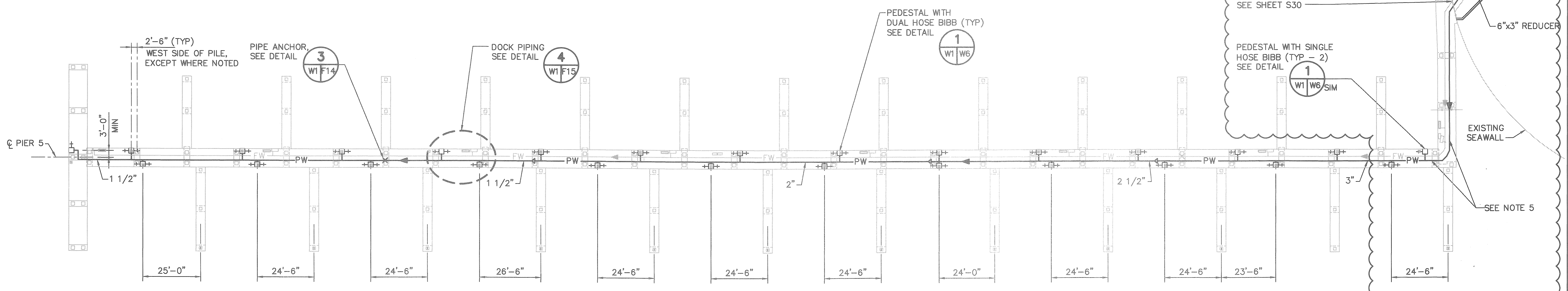
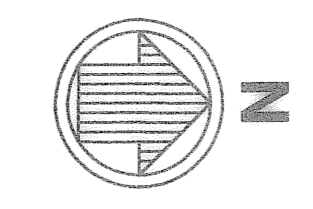
DOCK-MOUNTED FIRE HOSE CABINET DETAIL

NOT TO SCALE



SECTION

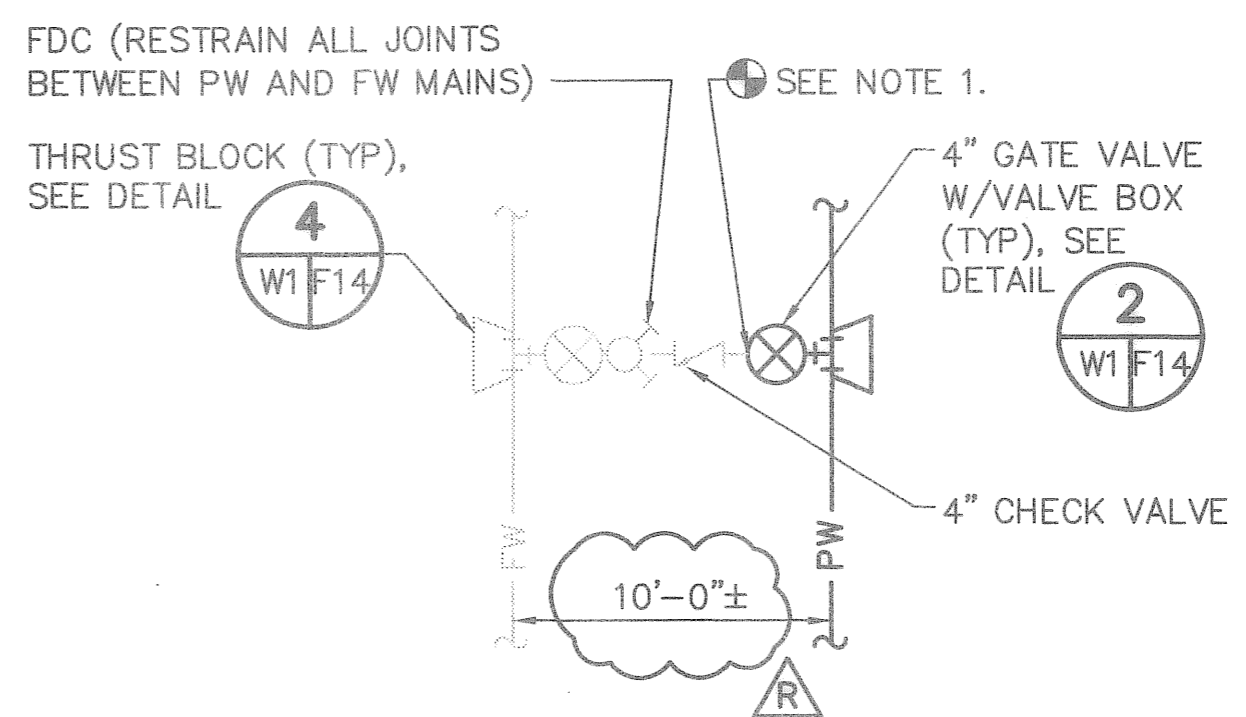
A
F15 F15



LEGEND (PARTIAL)

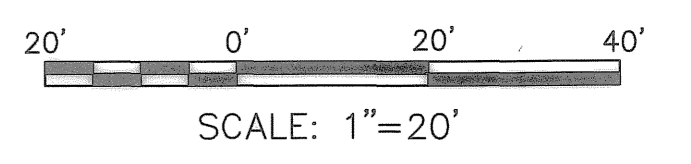
- PILE (FOR REFERENCE)
- ⊕ UTILITY PEDESTAL WITH DUAL HOSE BIBBS
- ⊕ UTILITY PEDESTAL WITH SINGLE HOSE BIBB
- × PIPE ANCHOR
- POINT OF CONNECTION
- FIRE HOSE CABINET WITH EXTINGUISHER
- ↔ REDUCER
- ⊕ GATE VALVE IN VALVE BOX
- ◆ HYDRANT
- ↔ CHECK VALVE
- PIPE FLOW DIRECTION

POTABLE WATER PLAN - PIER NO. 5
1"=20'



NOTE:
1. BLIND FLANGES SHALL BE TEMPORARILY INSTALLED ON ALL VALVES OR PIPING FLANGES IF THE CROSS CONNECTION IS NOT INSTALLED COMPLETE AT THE SAME TIME.

- NOTES:**
- ROUTE ONSHORE LINES TO AVOID EXISTING STRUCTURES.
 - CONTRACTOR TO VERIFY FIELD CONDITIONS AND EXISTING PIPING FOR TIE-IN ARRANGEMENT.
 - MAINTAIN A MINIMUM 6" HORIZONTAL CLEARANCE BETWEEN EDGES OF PILE CAP AND PEDESTAL.
 - PW PIPING SHALL BE PVC.
 - 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.
 - 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.
 - LANDSIDE PIPE ALIGNMENT APPROXIMATE AND BASED ON AS-BUILTS SUBMITTED BY MMCI IN JUNE, 2008.



DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

DESIGNED BY:	DATE:	REVISIONS	BY	DATE
JAM	10/2006	RECORD DRAWINGS	JAM	07/30/08
CHECKED BY:	DATE:			
FIELD BOOK No.	DATE:			
BM No.	PAGE			
LOCATION:	THRU			
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813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217**

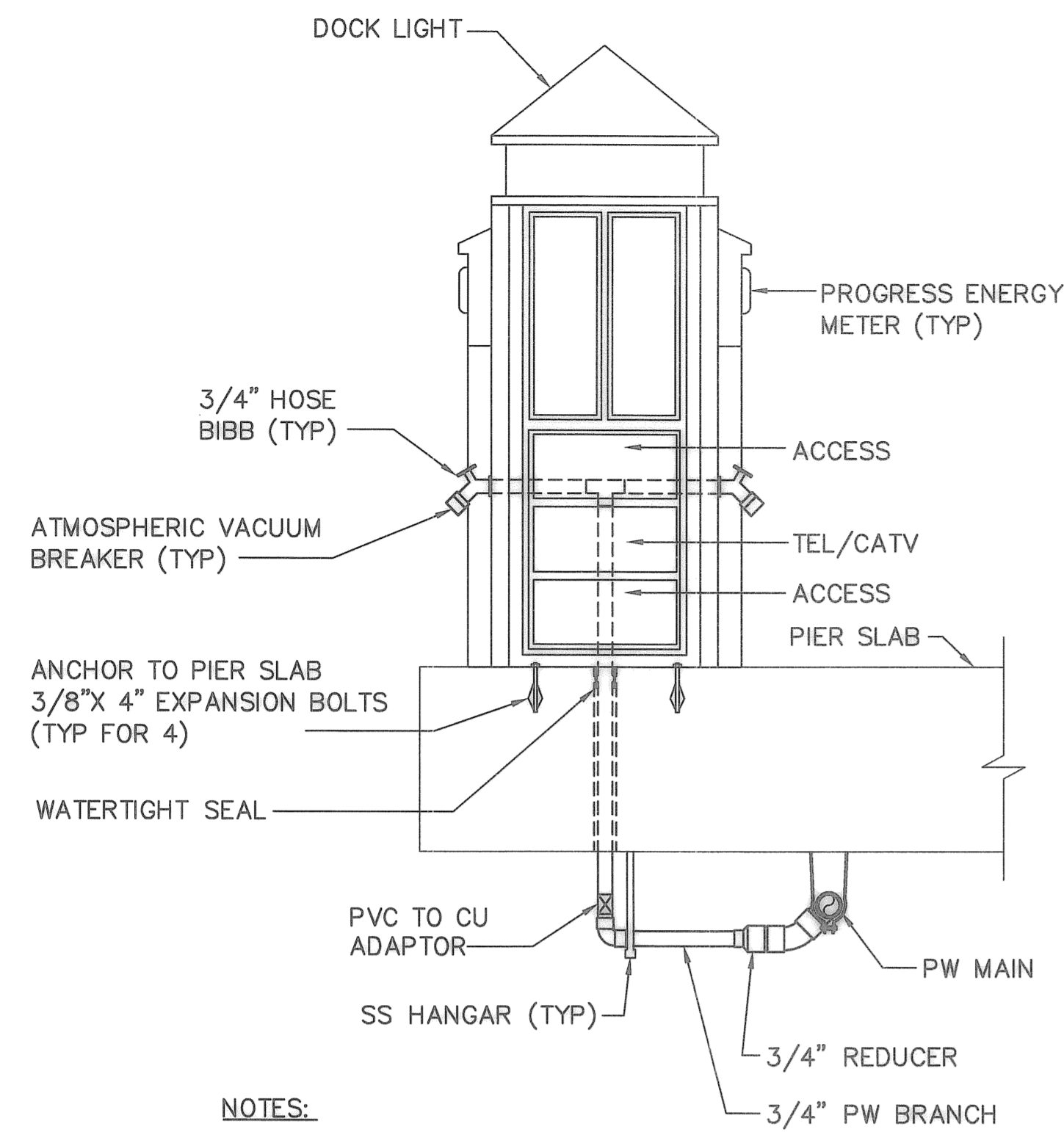
**POTABLE WATER PLAN
PIER NO. 5**

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-61
SHEET No. W1

RECORD DRAWINGS

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JULIA HORNBY, P.E.
FLORIDA LICENSED PROFESSIONAL ENGINEER No. 0062304

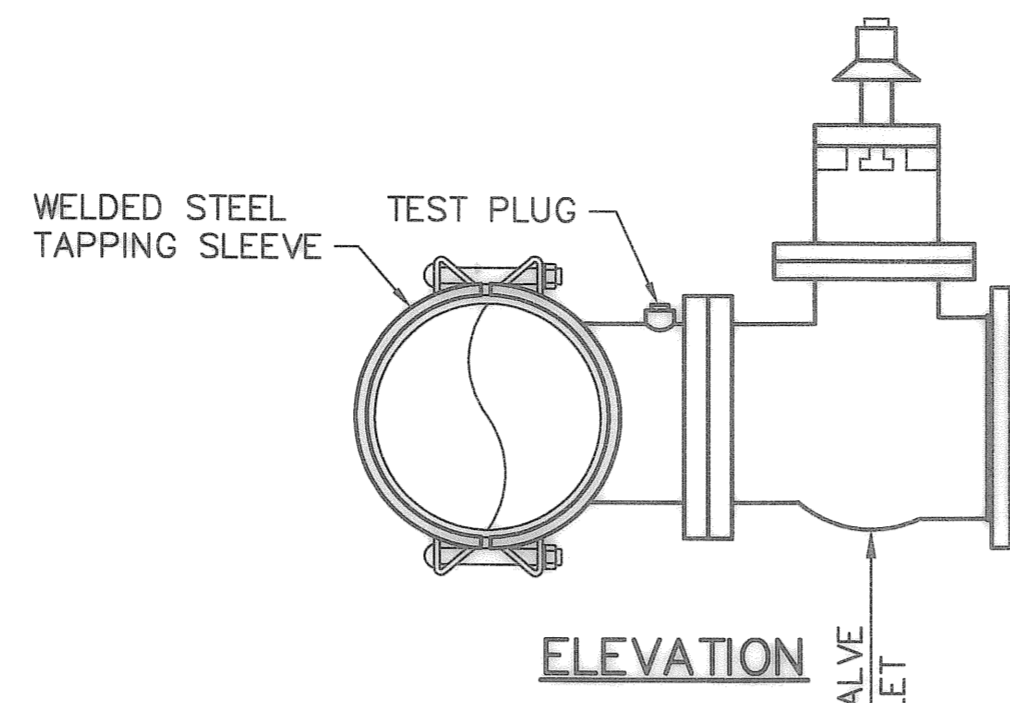
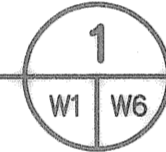


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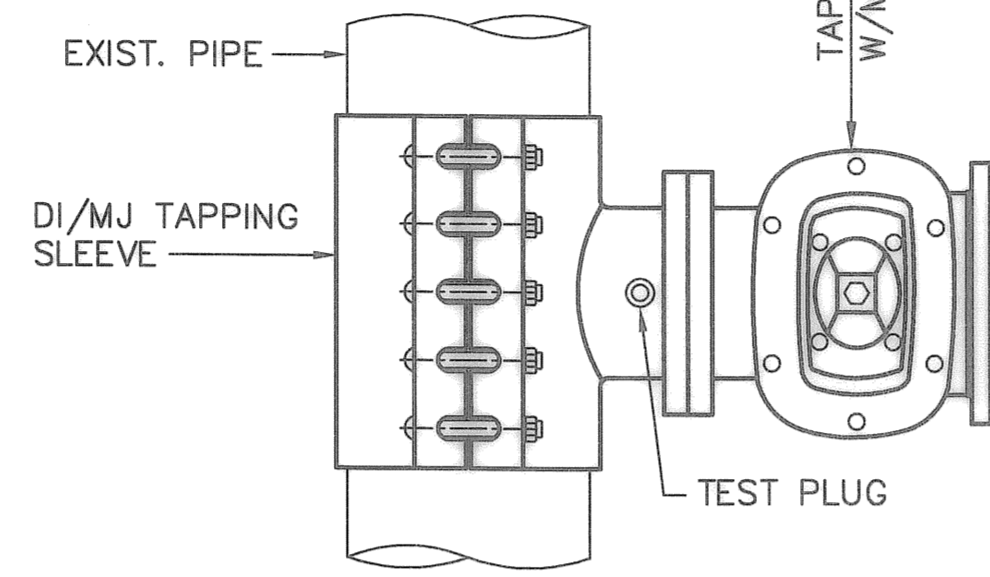
1. PEDESTAL SHOWN ROTATED 90°. SOME PEDESTALS HAVE ONLY ONE HOSE BIBB & SHALL BE PIPED ACCORDINGLY.
2. SAME UTILITY PEDESTAL ALSO INCLUDES POWER, PHONE, AND CATV SERVICES. SEE DETAIL 2 FOR ADDITIONAL CRITERIA

UTILITY PEDESTAL DETAIL

NOT TO SCALE



ELEVATION



PLAN

NOTE:

REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL CRITERIA.

PRESSURE TAP TIE-IN DETAIL

NOT TO SCALE



P:\5607-05\cadd\Submittals\Pier 5 Record Drawings\560705_W06.dwg, Jul 24, 2008-11:01am, asmith

JULIA HORNBY, P.E. DATE: _____
 FLORIDA LICENSED PROFESSIONAL ENGINEER No. 0062304

RECORD DRAWINGS

DESIGNED BY:	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY:	DATE: 10/2006			
CHECKED BY:	DATE: 10/2006			
FIELD BOOK No.	PAGE THRU			
EM No.	EL.			
LOCATION:				

MOFFATT & NICHOL
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818

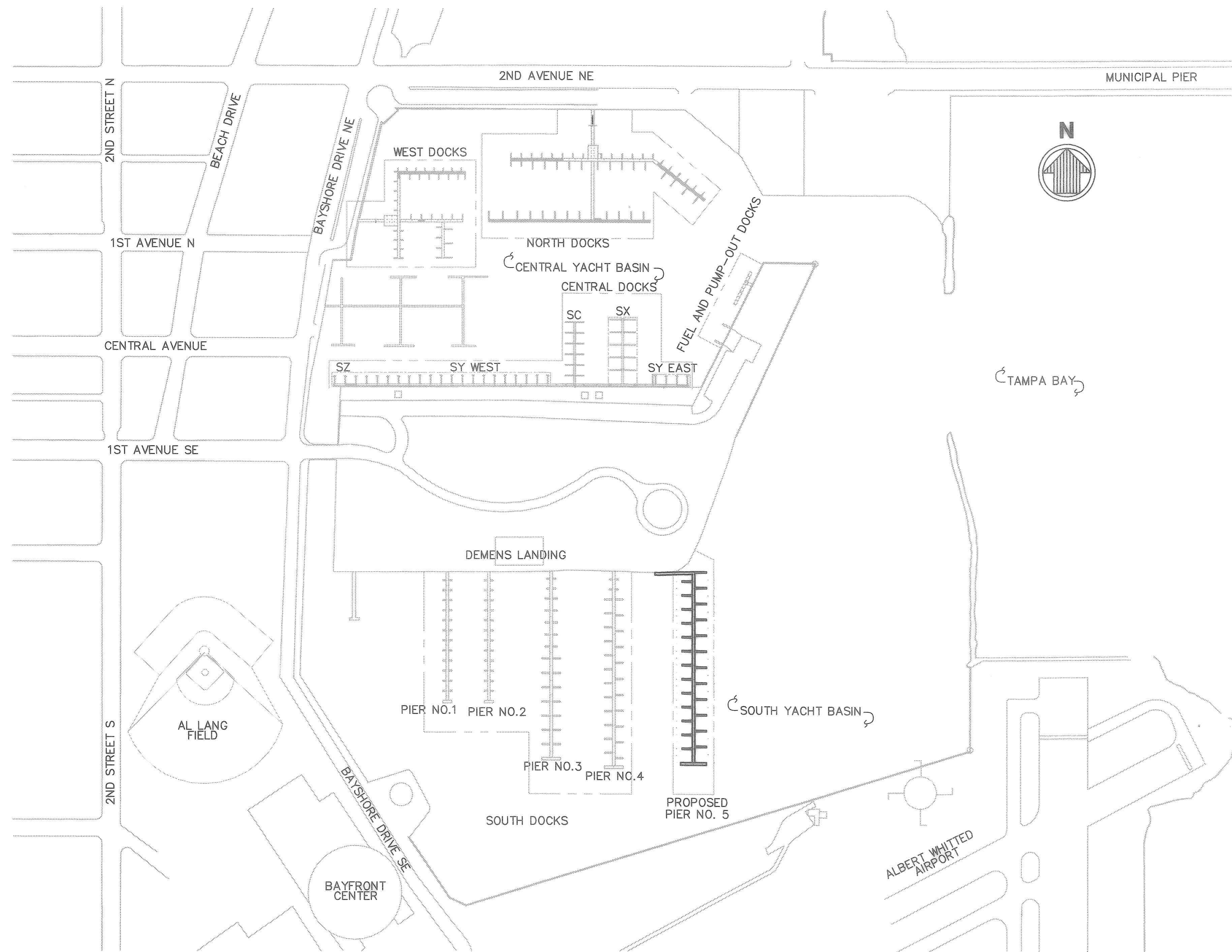
ENGINEERING DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY: _____

**MUNICIPAL MARINA SOUTH YACHT BASIN
 PIER 5 CONSTRUCTION PROJECT NO. 01074-217**

POTABLE WATER DETAILS

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING
 DATE: JULY 2008
 SCALE: AS SHOWN
 DRAWING No. 10175-66
 SHEET No. W6

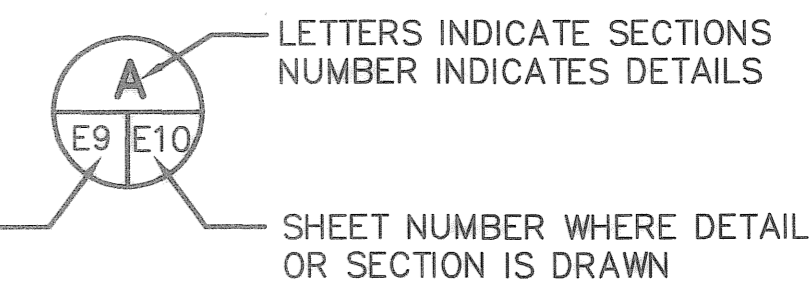
P:\5607-05\cadd\Submittals\Pier 5 Record Drawings\560705_E01.dwg: Jul 24, 2008-11:01am: asmith



SITE PLAN
SCALE: 1"=200'

ABBREVIATION AND SYMBOL LIST:

- NEW CONDUIT AND FEEDERS.
- EXISTING CONDUIT AND NEW FEEDER.
- EXISTING CONDUIT AND FEEDERS TO REMAIN.
- ⓐ DOCKSIDE POWER PEDESTAL. SEE SCHEDULE AND DETAIL 2 ON SHEET E12. LETTER INDICATES TYPE OF PEDESTAL.
- ⓐ CATV EQUIPMENT OR JUNCTION BOX. SEE DETAIL 2 ON SHEET E13. LETTER INDICATES TYPE OF CABINET.
- ⓐ TELEPHONE TERMINAL CABINET. SEE DETAIL 1 ON SHEET E13. LETTER INDICATES TYPE OF CABINET.
- ① DESCRIPTIVE NOTE. SEE NOTES ON EACH SHEET.
- ▭ CATV TERMINAL CABINET. SEE DETAIL ON SHEET E13.
- 12" X 16" X 6" NEMA 4X J-BOX FOR CATV.
- 12" X 16" X 8" NEMA 4X J-BOX FOR TELEPHONE.
- ② FEEDER CALLOUT SEE CONDUIT AND FEEDER SCHEDULE.

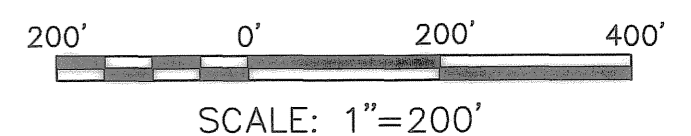


ELECTRICAL DRAWING SUPPLEMENTAL ABBREVIATIONS

- C = CONDUIT
- CL = CONTINUOUS LOAD
- CONT = CONTRACTOR
- FL = FLORIDA
- GND. = GROUND
- J-BOX = JUNCTION BOX
- LT = LIGHT
- SCH = SCHEDULE

GENERAL NOTES:

1. ALL EXISTING CONDUITS NOT REUSED IN REMODELED 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 REUSED, SHALL BE RECONDITIONED AND REINSTALLED AS REQUIRED.
3. ALL EXISTING EQUIPMENT TO BE REMOVED, TEMPORARILY STORED AND REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED, AS REQUIRED.
4. THESE DRAWINGS SHOW APPROXIMATE LOCATION OF EXISTING EQUIPMENT AND DO NOT NECESSARILY INDICATE THE COMPLETE EXISTING INSTALLATION. EXACT LOCATION SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
5. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK.
6. ALL POWER INTERRUPTIONS 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 CONDITIONS, EXISTING FACILITIES AND ALL BUILDING 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 AUTHORITIES HAVING JURISDICTION.
10. ALL NEW FEEDERS SHALL BE CONTINUOUS BETWEEN PANEL CIRCUIT BREAKER AND POWER PEDESTAL(S). NO SPLICES AND/OR "BELOW DECK" TERMINATIONS SHALL BE PERMITTED.
11. FOR ELECTRICAL RELATED TO WATER CIRCULATORS ON PIERS NO. 1, 2, & 3 SEE SHEET C1.



DRAWING SCALE'S SHOWN BASED ON 24"x36" DRAWING

TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWINGS

DESIGNED BY: DRM DATE: 10/2006
 DRAWN BY: PRB DATE: 10/2006
 CHECKED BY: TWS DATE: 10/2006
 FIELD BOOK No. PAGE THRU
 BM No. LOCATION: EL.

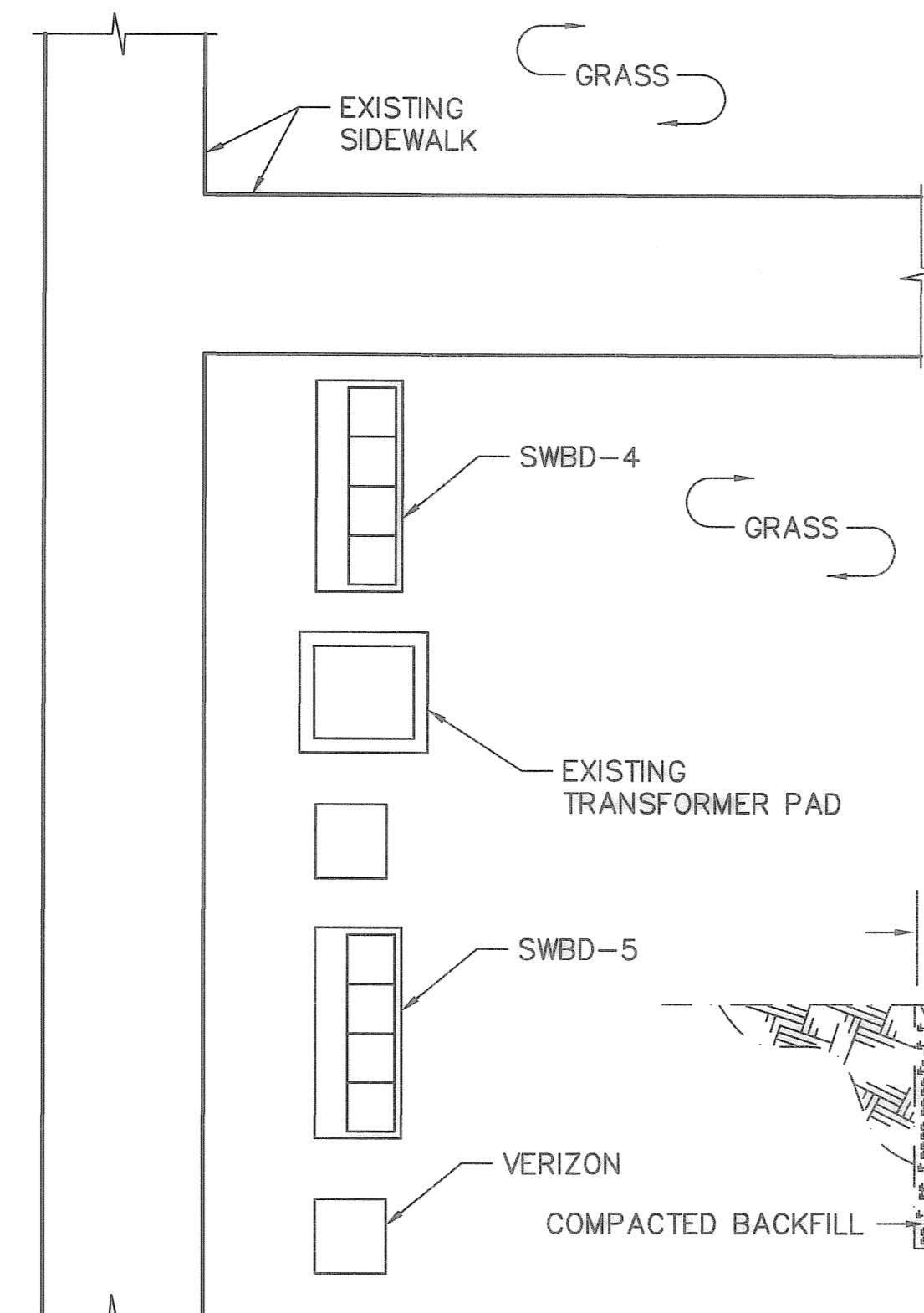
REVISIONS	BY	DATE

MOFFATT & NICHOL
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818

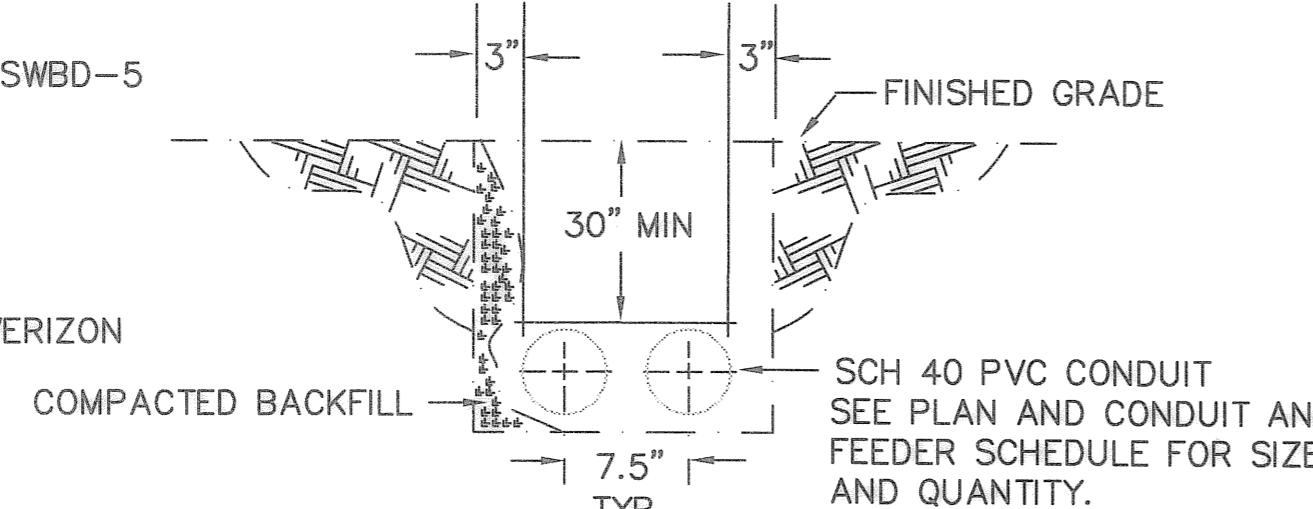
ENGINEERING DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
ELECTRICAL SITE PLAN, ABBREVIATIONS,
SYMBOL LIST AND GENERAL NOTES

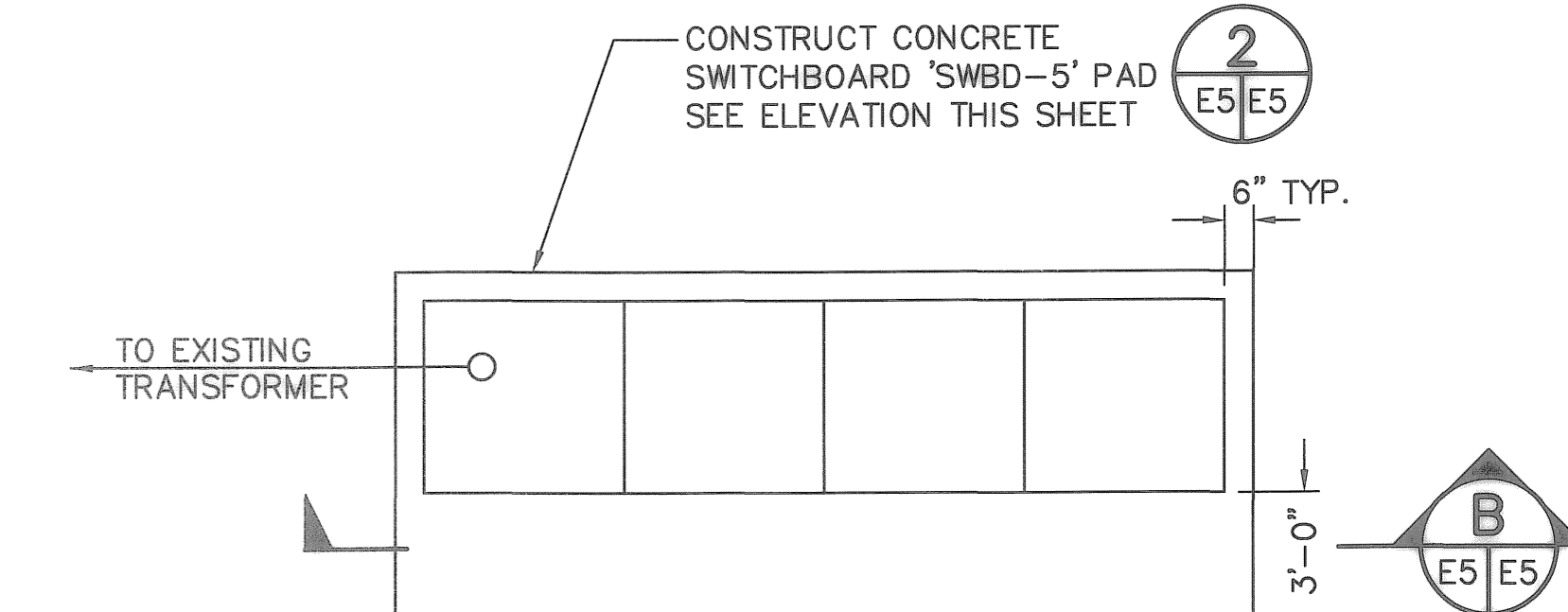
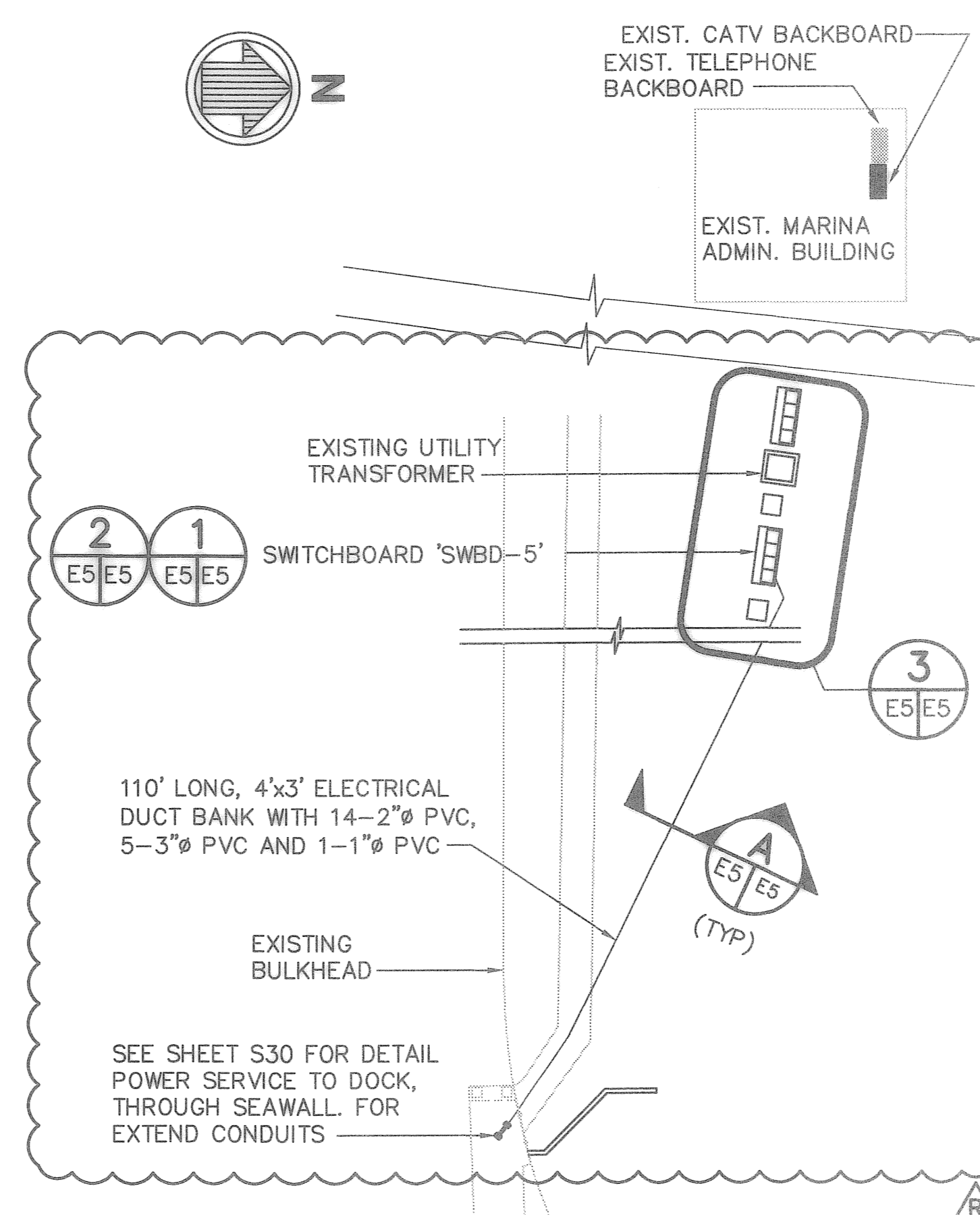
DATE: JULY 2008
 SCALE: AS SHOWN
 DRAWING No. 10175-67
 SHEET No. E1



ENLARGED PLAN
NOT TO SCALE

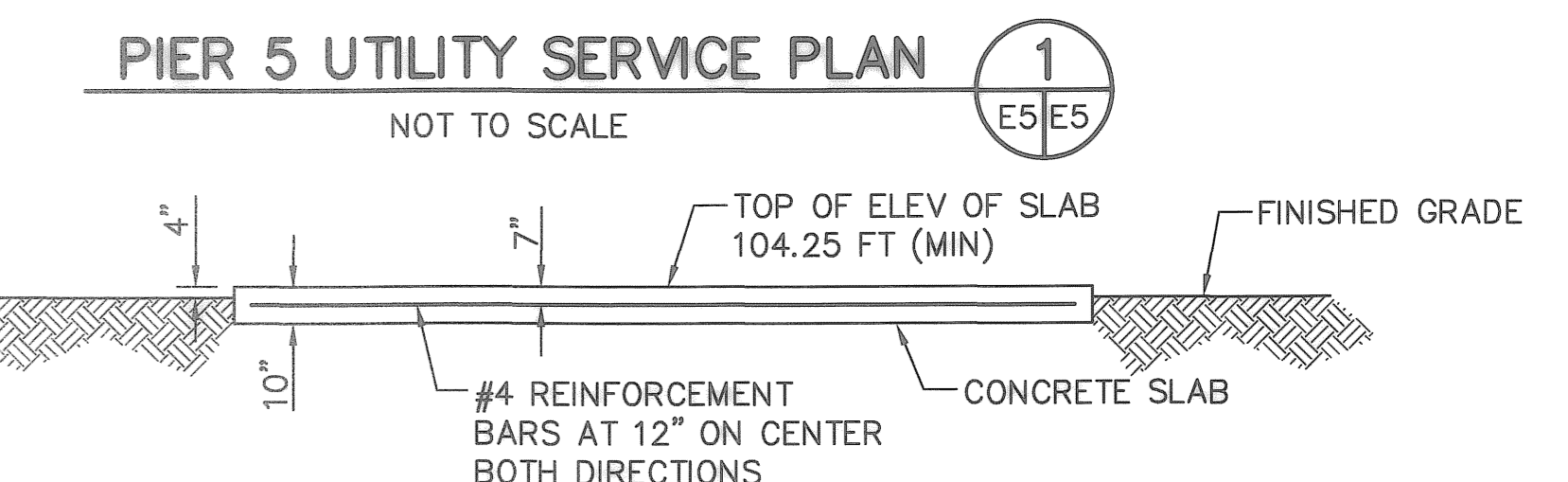


TYPICAL CONDUIT DUCT BANK
NOT TO SCALE



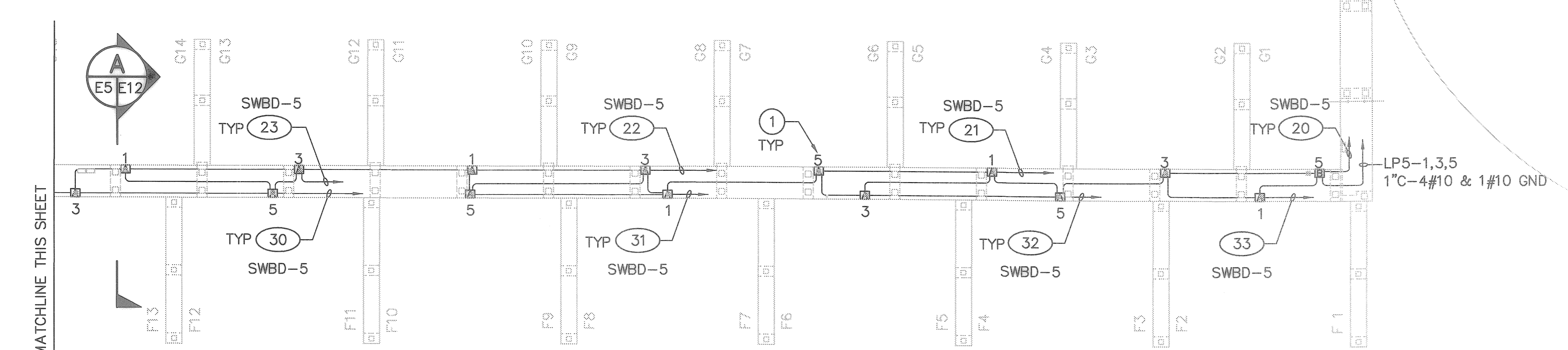
SIZE OF SLAB WILL DEPEND ON MANUFACTURER'S OVERALL DIMENSION. THE SLAB SHALL EXTEND 3\"/>

- NOTES:
1. SWITCHBOARD PADS TOP ELEVATION SHALL BE ABOVE CITY'S BASE FLOOD ELEVATION +8.0' NAVD IN ACCORDANCE WITH CITY CODE SEC 16-426(8).

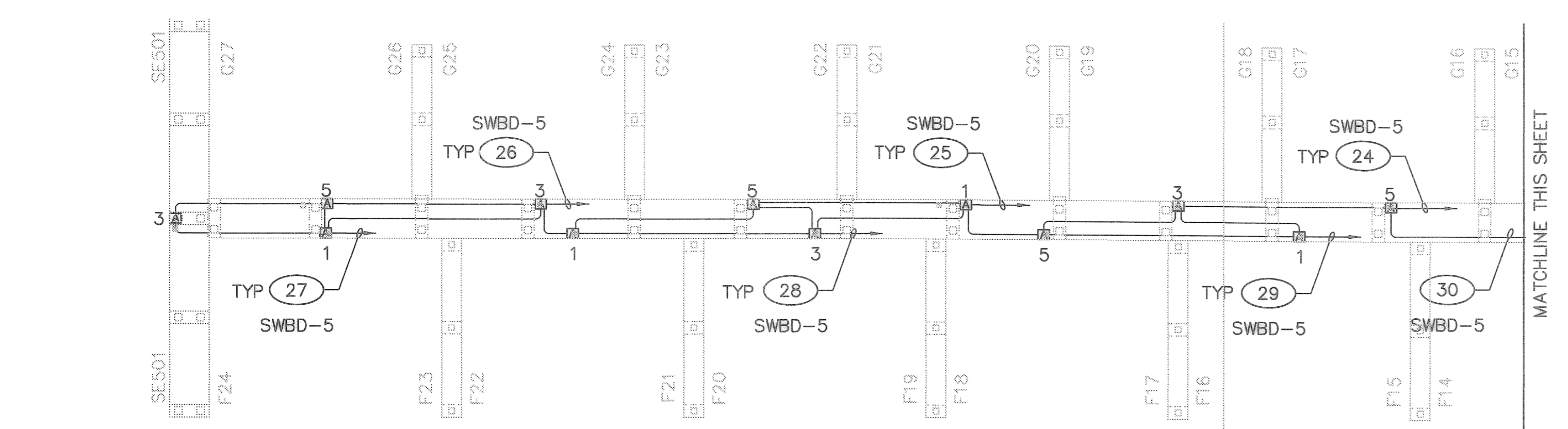


SECTION B
NOT TO SCALE

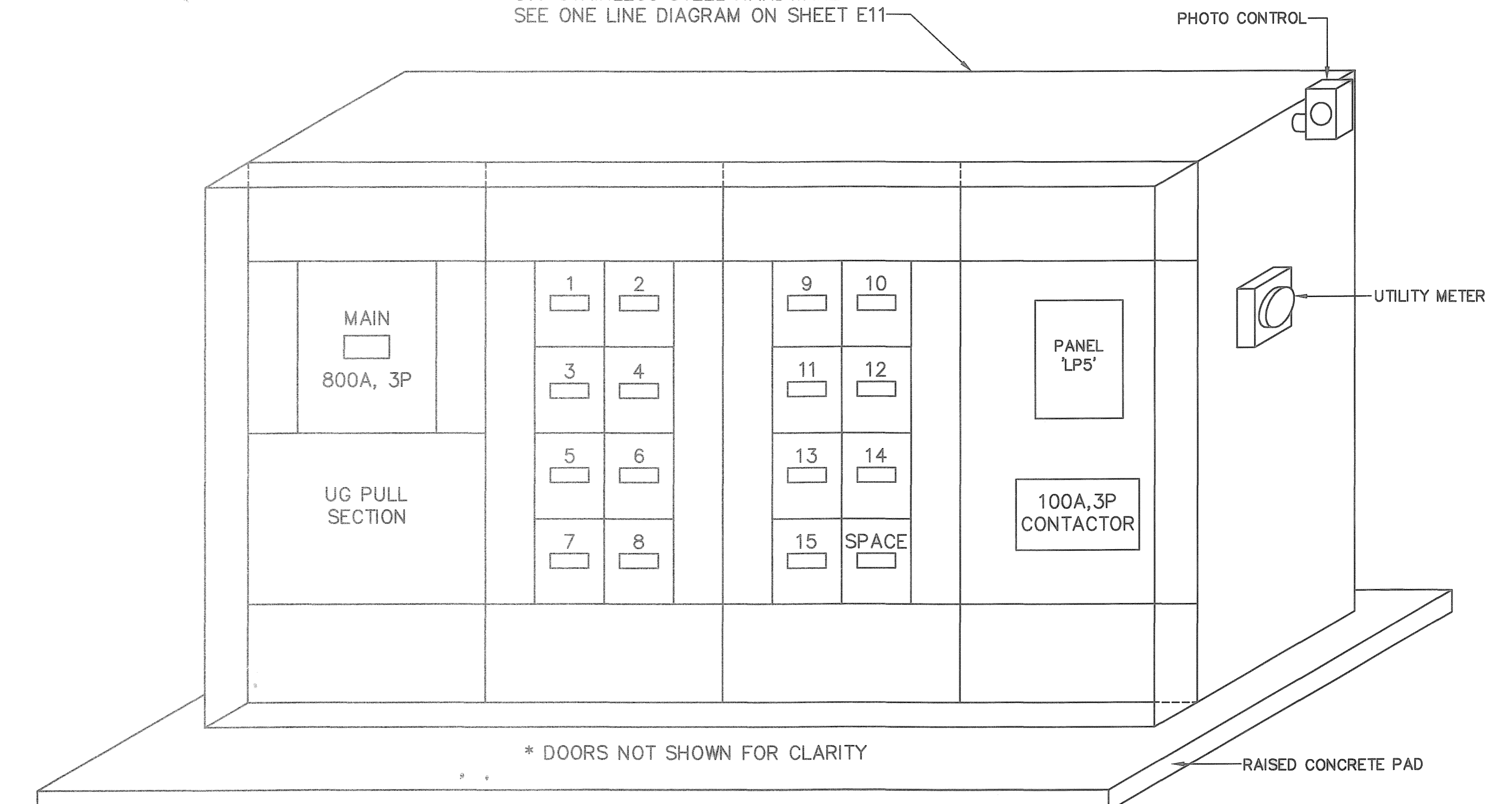
TYPE 316 STAINLESS STEEL NEMA 3R ENCLOSURE WITH 316 STAINLESS STEEL HARDWARE SEE ONE LINE DIAGRAM ON SHEET E11



- NOTE:
① DESIGNATES LIGHTING PANEL LP5 CIRCUIT NUMBER.



ELECTRICAL PLAN - PIER NO. 5
SCALE: 1" = 20'



ELEVATION - SWITCHBOARD 'SWBD-5'
NOT TO SCALE

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

P:\5607-05\cadd\Submittals\Pier 5 Record Drawings\560705.E05.dwg, Jul 24, 2008-11:02am, asmith

TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWINGS

DESIGNED BY: DRM
DRAWN BY: PRB
CHECKED BY: TWS
FIELD BOOK No.
BM No.
LOCATION:

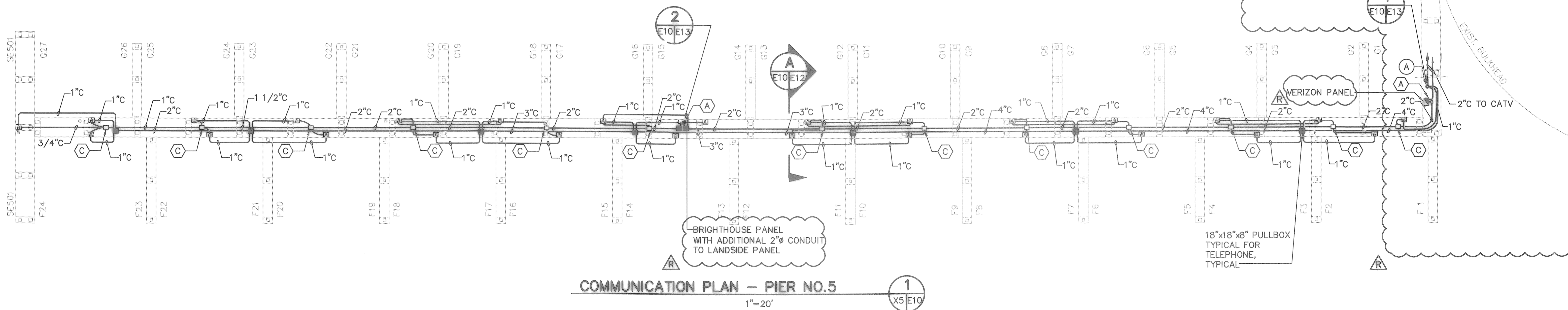
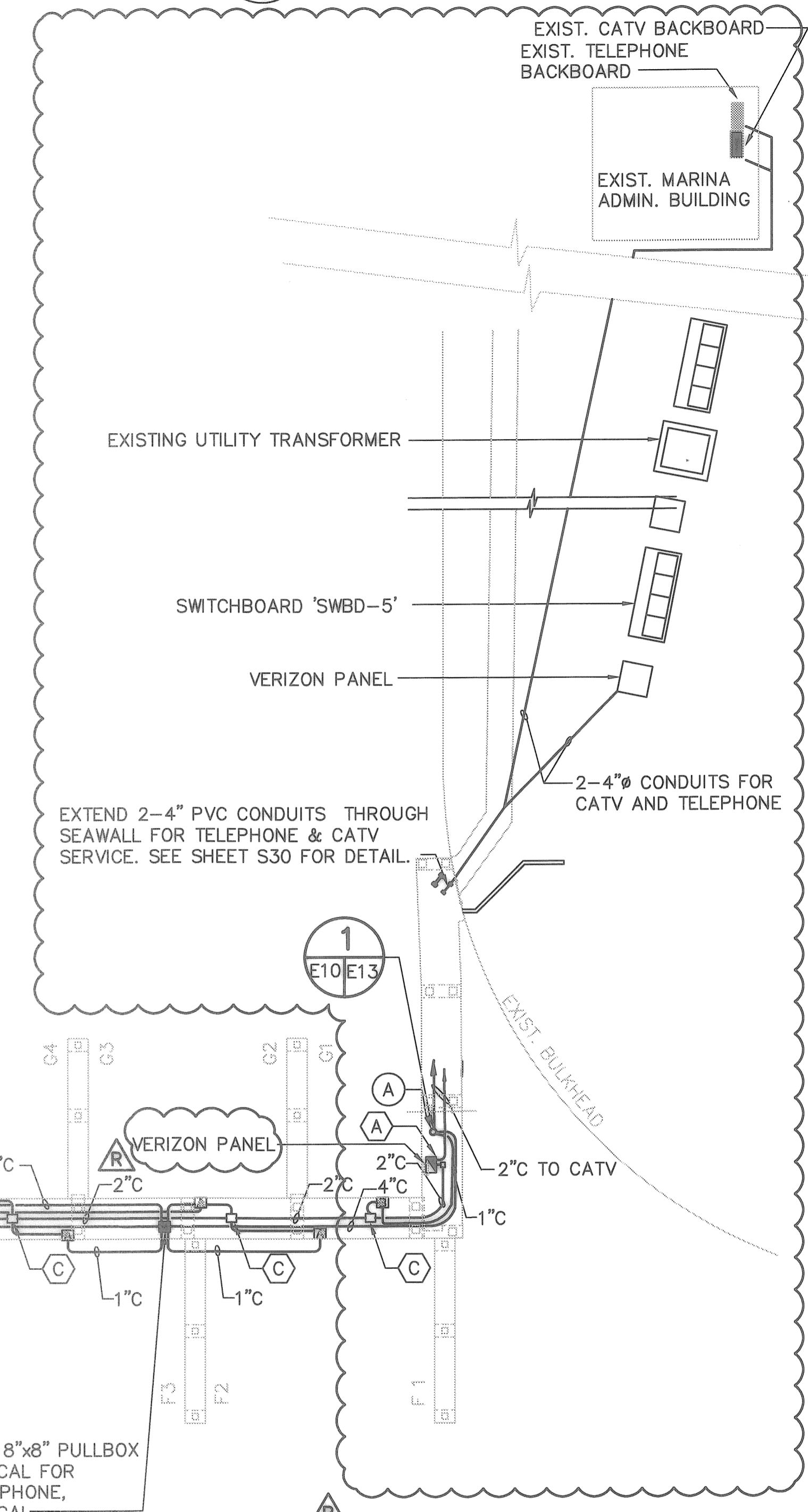
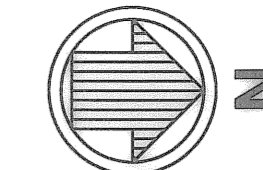
REVISIONS	BY	DATE
RECORD DRAWINGS	JAM	07/30/08

MOFFATT & NICHOL
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

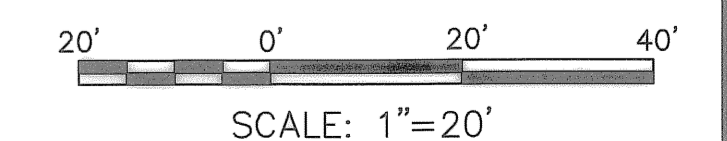
ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG

**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217**
**ELECTRICAL PLAN
PIER NO. 5**

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-71
SHEET No. E5



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



DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

DESIGNED BY: DRM	DATE: 10/2006	BY: JAM	DATE: 07/30/08
DRAWN BY: PRB	DATE: 10/2006		
CHECKED BY: TWS	DATE: 10/2006		
FIELD BOOK No.	PAGE	THRU	
BM No.	EL.		
LOCATION:			

MOFFATT & NICHOL
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

**MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
COMMUNICATION PLAN
PIER NO. 5**

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-76
SHEET No. E10

RECORD DRAWINGS

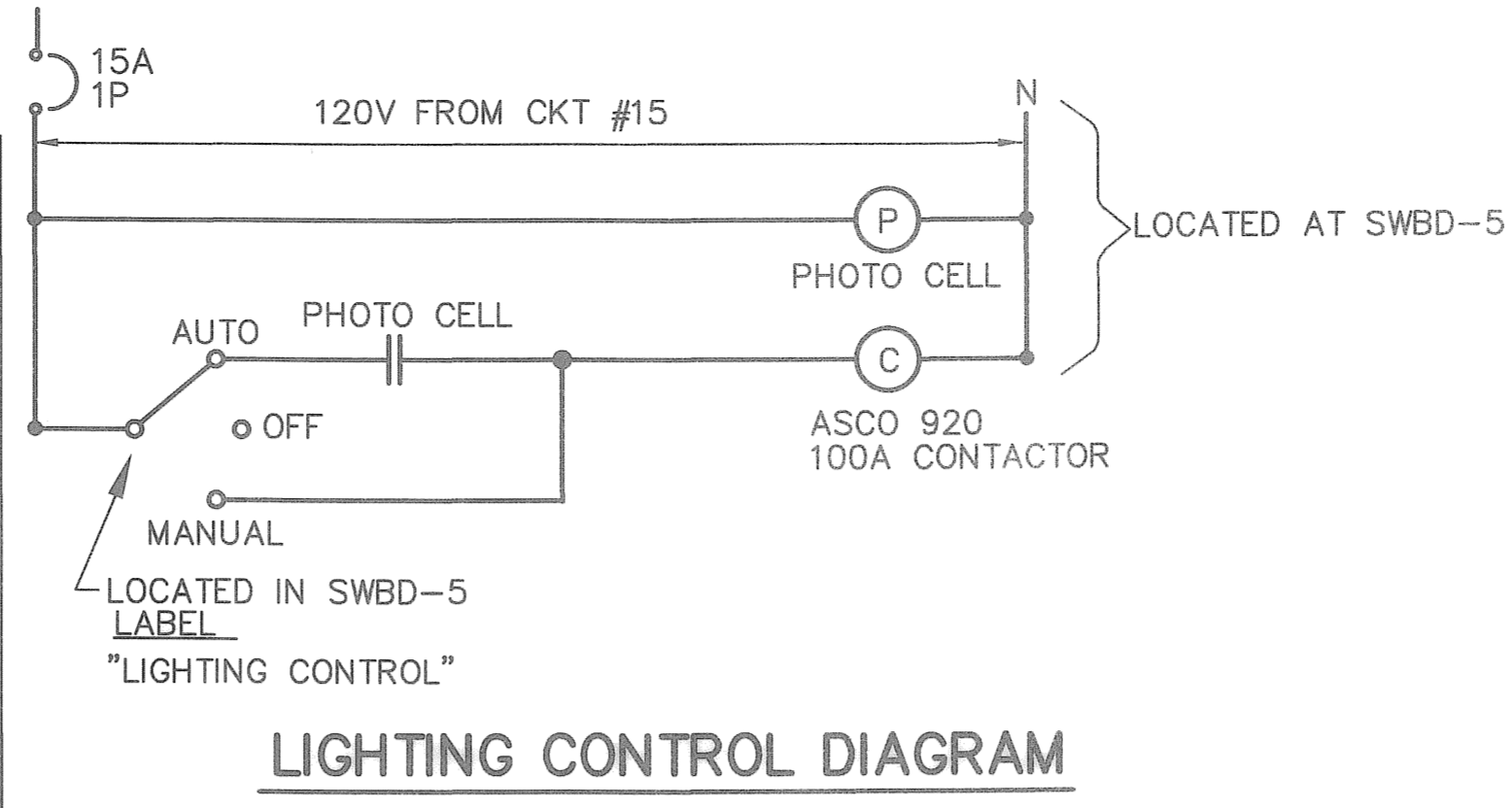
TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055298

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CONDUIT AND FEEDER SCHEDULE

NO.	CONDUIT	CONDUCTORS	REMARK
1	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "W", CKT#1, EX. 375A BKR. SERVING SLIPS WD1-WD16
2	3" C	4-400Kcmil & 1 #2 GND	EX. PANEL "W", CKT#2, EX. 350A BKR. SERVING SLIPS WD17-WD27, WL1
3	3" C	4-400Kcmil & 1 #3 GND	EX. PANEL "W", CKT#3, EX. 350A BKR. SERVING SLIPS WD28-WD39
4	1" C	2 #10 & 1 #10 GND	EX. PANEL "IL", CKT#1, EX. 20A BKR. SERVING PEDESTAL LIGHTS
5	1" C	2 #10 & 1 #10 GND	EX. PANEL "IL", CKT#2, EX. 20A BKR. SERVING PEDESTAL LIGHTS
6	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "W", CKT#4, EX. 375A BKR. SERVING SLIPS WC1-WC15, WL2
7	3" C	4-350Kcmil & 1 #4 GND	EX. PANEL "W", CKT#5, EX. 300A BKR. SERVING SLIPS WA1-WA5, WL3, WC16-WC19
8	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "N", CKT#1, EX. 375A BKR. SERVING SLIPS NC22-NC35, NS1
9	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "N", CKT#2, EX. 375A BKR. SERVING SLIPS NB13-NB20, NS2, N36-NC39, NL4
10	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "N", CKT#6, EX. 375A BKR. SERVING SLIPS NS3, NB1-NB12, NS5, NA1-NA2
11	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "N", CKT#7, EX. 375A BKR. SERVING SLIPS NC1-NC14
12	3" C	3-350Kcmil, 1-500Kcmil NEUT. & 1 #2 GND	EX. PANEL "N", CKT#8, EX. 300A BKR. SERVING SLIPS NC15-NC21, NL1, NA3-NA5
13	1" C	2 #10 & 1 #10 GND	EX. PANEL "2L", CKT#7, EX. 20A BKR. SERVING PEDESTAL LIGHTS
14	1" C	2 #10 & 1 #10 GND	EX. PANEL "2L", CKT#3, EX. 20A BKR. SERVING PEDESTAL LIGHTS
15	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "N", CKT#3, EX. 375A BKR. SERVING SLIPS NB31-NB34, NA6-NA10
16	3" C	4-350Kcmil & 1 #2 GND	EX. PANEL "N", CKT#4, EX. 300A BKR. SERVING SLIPS NB22-NB30, NL2
17	3 1/2" C	4-500Kcmil & 1 #2 GND	EX. PANEL "N", CKT#5, EX. 375A BKR. SERVING SLIPS 1-18
18	2" C	3 #3/0 & 1 #6 GND	NEW PANEL "PDN", WITH 200A 3P MAIN BKR. SERVING NEW 200A/3P, FUSED DISCONNECT ON DOCK
19	1" C	2 #10 & 1 #10 GND	EX. PANEL "2L", CKT#5, EX. 20A BKR. SERVING EX PEDESTAL LIGHTS
20	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#1, SERVING SLIPS G1, G2, G3
21	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#2, SERVING SLIPS G4, G5, G6, G7
22	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#3, SERVING SLIPS G8, G9, G10, G11
23	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#4, SERVING SLIPS G12, G13, G14, G15
24	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#5, SERVING SLIPS G16, G17, G18, G19
25	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#6, SERVING SLIPS G20, G21, G22, G23
26	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#7, SERVING SLIPS G24, G25, G26, G27
27	3" C	4 #250 Kcmil & 1 #2 GND	NEW PANEL "SWBD-5", CKT#8, SERVING SLIPS SE501, SE502, F24, F25
28	3" C	4 #250 Kcmil & 1 #2 GND	NEW PANEL "SWBD-5", CKT#9, SERVING SLIPS F19, F20, F21, F22
29	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#10, SERVING SLIPS F15, F16, F17, F18
30	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#11, SERVING SLIPS F11, F12, F13, F14
31	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#12, SERVING SLIPS F7, F8, F9, F10
32	2" C	4 #4/0 & 1 #4 GND	NEW PANEL "SWBD-5", CKT#13, SERVING SLIPS F3, F4, F5, F6
33	2" C	4 #1 & 1 #8 GND	NEW PANEL "SWBD-5", CKT#14, SERVING SLIPS F1, F2
34	2" C	4 #1 & 1 #8 GND	NEW PANEL "SWBD-5", CKT#15, SERVING PANEL LP5
35	2-4" C	4-600 Kcmil & 1#3/0 GND EACH	SERVICE FROM PROGRESS ENERGY TRANSFORMER
36	4" C	BY UTILITY Co.	

NOT IN CONTRACT



LIGHTING CONTROL DIAGRAM

PANEL: LP5

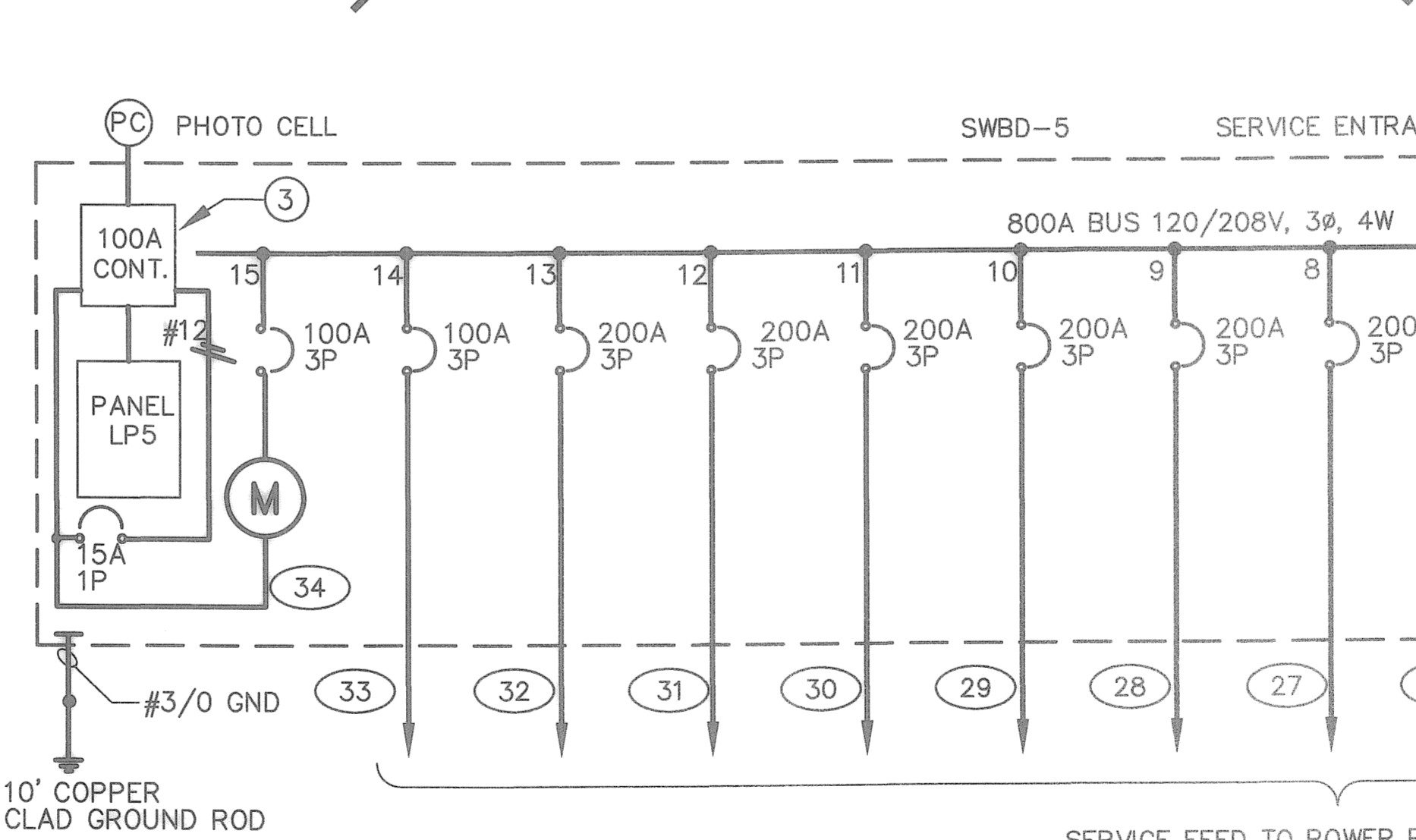
LOCATION : SWBD-5 VOLTAGE / PHASE : 208/120V, 3PHASE, 4W FED FROM: SWBD-5-CKT-6
 FLOOR : BUS AMPS : 225A
 MOUNTING : FLUSH MAIN BREAKER : 100A ** MINIMUM SC BRACING :

LOADS	SEE NOTE	OUTLETS			VOLT-AMPS			BKR/POLE	A B C	POLE	CKT	VOLT-AMPS			OUTLETS			SEE NOTE	LOADS	SPARE
		MISC	REC	LTG	A	B	C					A	B	C	LTG	REC	MISC			
LT. ON PWR PEDESTALS				9	1080			20/1	*		2	1000								SPARE
LT. ON PWR PEDESTALS				9	1080			20/1	**		4	1000								SPARE
LT. ON PWR PEDESTALS				9	1080			20/1	**		8	1000								SPARE
LT. ON PWR PEDESTALS				9	1080			20/1	**		8	1000								SPARE
LT. ON PWR PEDESTALS				9	1080			20/1	**		12	1000								SPARE
								20/1	*		14									
								20/1	*		15									
								20/1	*		17									
								20/1	**		18									
								20/1	**		20									
								20/1	**		22									
								20/1	**		23									

TOTAL A = 3080 VOLT-AMPS
 TOTAL B = 3080 VOLT-AMPS
 TOTAL C = 3080 VOLT-AMPS
 LCL = 810 VOLT-AMPS

NOTES: ** 100AMP MAIN CONTROLLED BY 100 AMP CONTACTOR

TOTAL = 10,050 VA @ 208V, 3PHASE = 27.9 AMPS



PANEL: SWBD-5 SERVICE ENTRANCE RATED NEMA 4X PANEL

LOCATION : - VOLTAGE / PHASE : 208V/120, 3Ø, 4W FED FROM : PANEL 5DP
 BUS AMPS : 800A
 MOUNTING : FREE STANDING MAIN BREAKER : 800A MINIMUM SC RATING : 65,000 AIC

CKT	BKR/POLE	Demand Load KVA	Amps	PHASE	CONDUCTORS			SERVING SLIPS
					NEUTRAL	GROUND	CONDUIT	
1	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G1, G2, G3
2	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G4, G5, G6, G7
3	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G8, G9, G10, G11
4	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G12, G13, G14, G15
5	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G16, G17, G18, G19
6	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G20, G21, G22, G23
7	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	G24, G25, G26, G27
8	200/3	50.4	140	3-250 Kcmil	1-250 Kcmil	#2	3"	SE5-01, SE5-02, F24, F25
9	200/3	50.4	140	3-250 Kcmil	1-250 Kcmil	#2	3"	F19, F20, F21, F22
10	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	F15, F16, F17, F18
11	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	F11, F12, F13, F14
12	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	F7, F8, F9, F10
13	200/3	50.4	140	3-#4/0	1-#4/0	#4	2"	F3, F4, F5, F6
14	100/3	14	39	3-#1	1-#1	#8	2"	F1, F2
15	100/3	10.1	27.9	3-#1	1-#1	#8	2"	Lighting Panel LP-5

RECEPTACLES	CONNECTED LOAD	NEC DEMAND
(54) 30A 120V 1PH	54 X 3600W = 194,400W	(ARTICLE 555-5)
(54) 50A 120/208V 1 PH	54 X 10,400W = 561,600W	= 20%
TOTAL = 108 RECEPTACLES	TOTAL = 756,000W	TOTAL = 151,200W

DEMAND LOAD @ 208V 3PH = 420 AMPS
 LIGHTING PANEL @ 100% = 28 AMPS
 15% SPARE CAPACITY = 67 AMPS
 TOTAL DEMAND LOAD = 515 AMPS

NOTES

- UTILITY METER
- GROUND PER PROGRESS ENERGY REQUIREMENTS.
- SEE LIGHTING CONTROL DIAGRAM.
- TRANSFORMER SLAB SUPPLIED AND INSTALLED BY CONTRACTOR. SLAB SIZE AND INSTALLATION PER UTILITY Co. REQUIREMENTS.

ONE LINE DIAGRAM, PIER NO. 5

P:\5607-05\cadd\Submittals\Pier 5 Record Drawings\560705_E11.dwg: Jul 24, 2008-11:02am: asmith

TYLER SPARKS, P.E. DATE: 10/2006
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWINGS

DESIGNED BY:	DATE:	BY:	DATE:
DRM	10/2006	JAM	07/30/08
DRAWN BY:	DATE:		
PRB	10/2006		
CHECKED BY:	DATE:		
TWS	10/2006		
FIELD BOOK No.	PAGE:		
	THRU:		
BM No.	EL.		
LOCATION:			

MOFFATT & NICHOL
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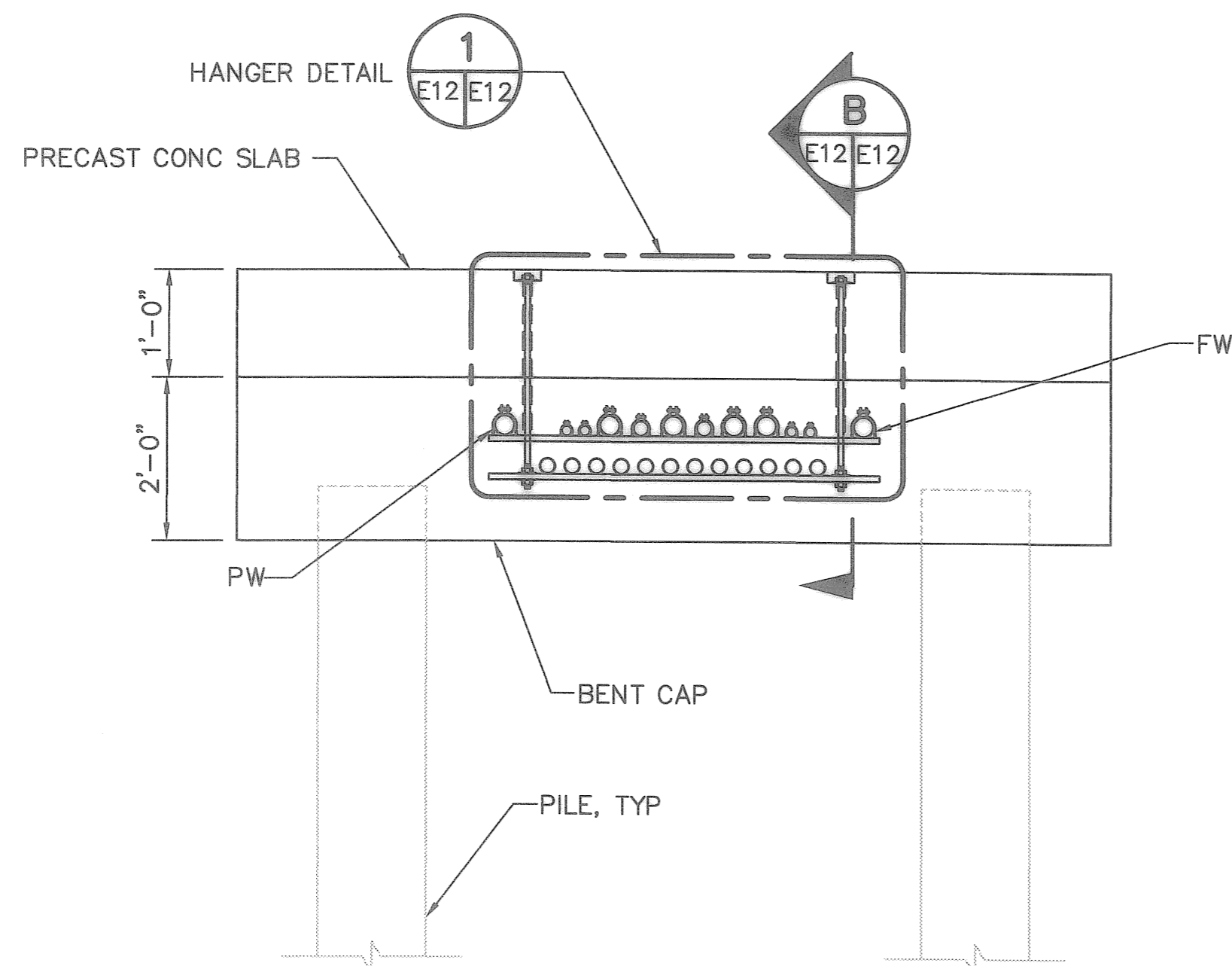
ENGINEERING DEPARTMENT
 CITY OF ST. PETERSBURG

APPROVED BY: _____

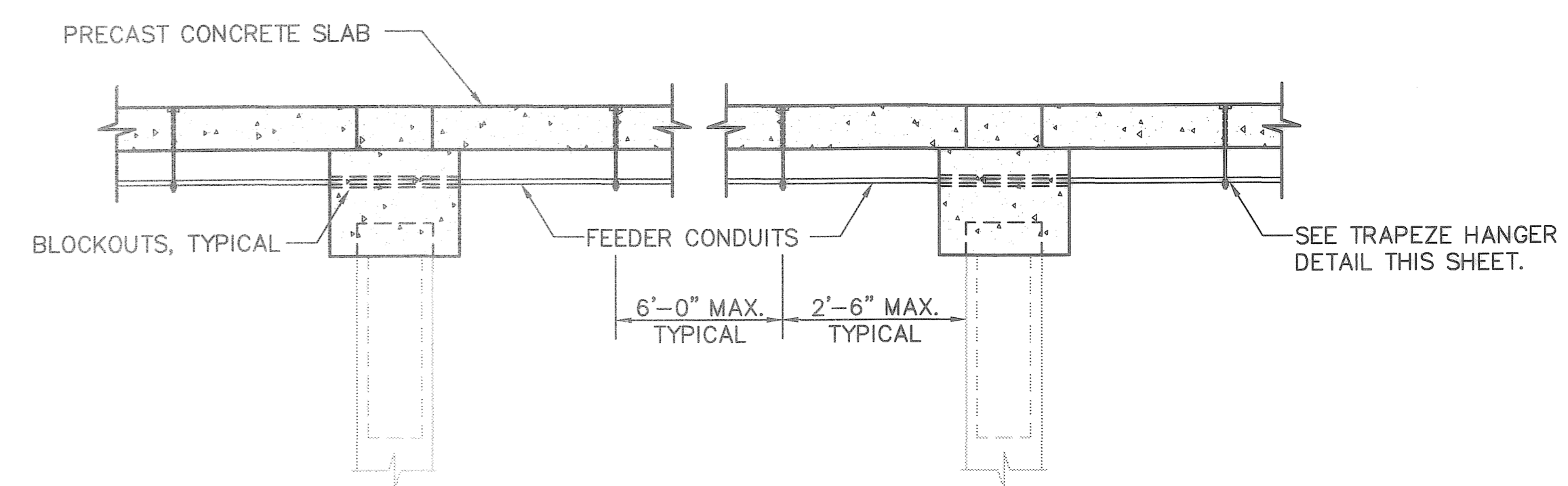
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

MUNICIPAL MARINA SOUTH YACHT BASIN
 PIER 5 CONSTRUCTION PROJECT NO. 01074-217
SINGLE LINE DIAGRAM, PANEL, AND CONDUIT & FEEDER SCHEDULES

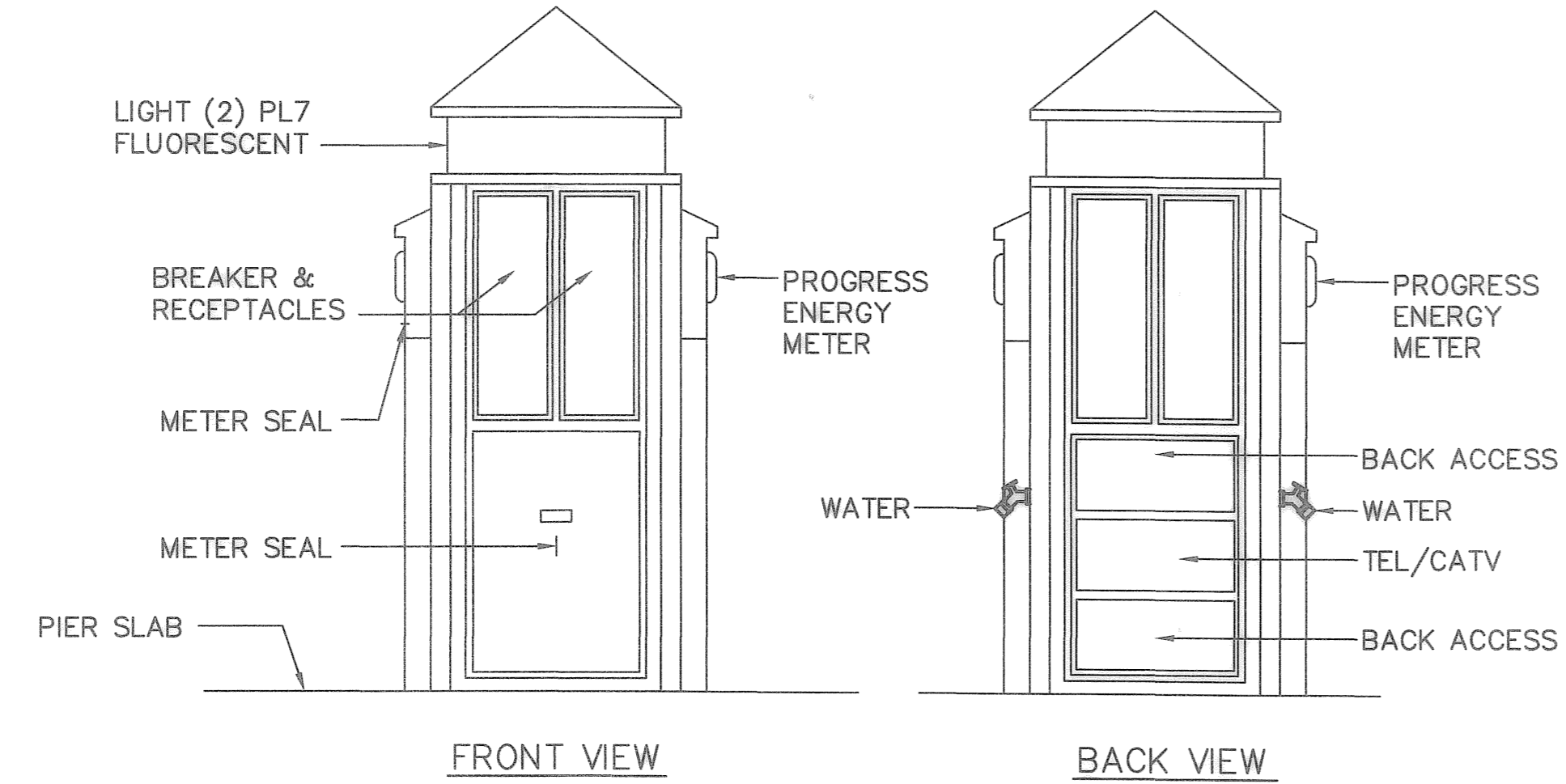
DATE: JULY 2008
 SCALE: NONE
 DRAWING No. 10175-77
 SHEET No. E11



TYP. MAIN PIER WITH TRAPEZE HANGER (A)
NOT TO SCALE
E10, C2

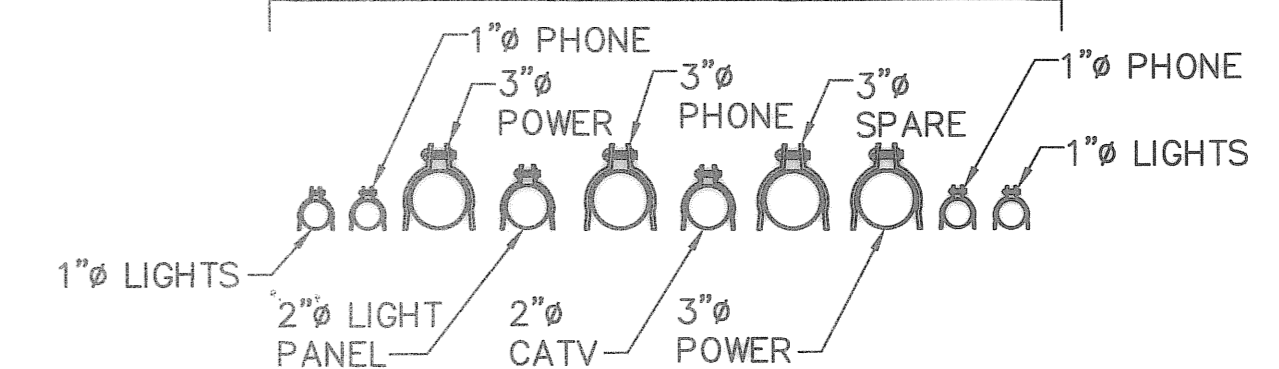
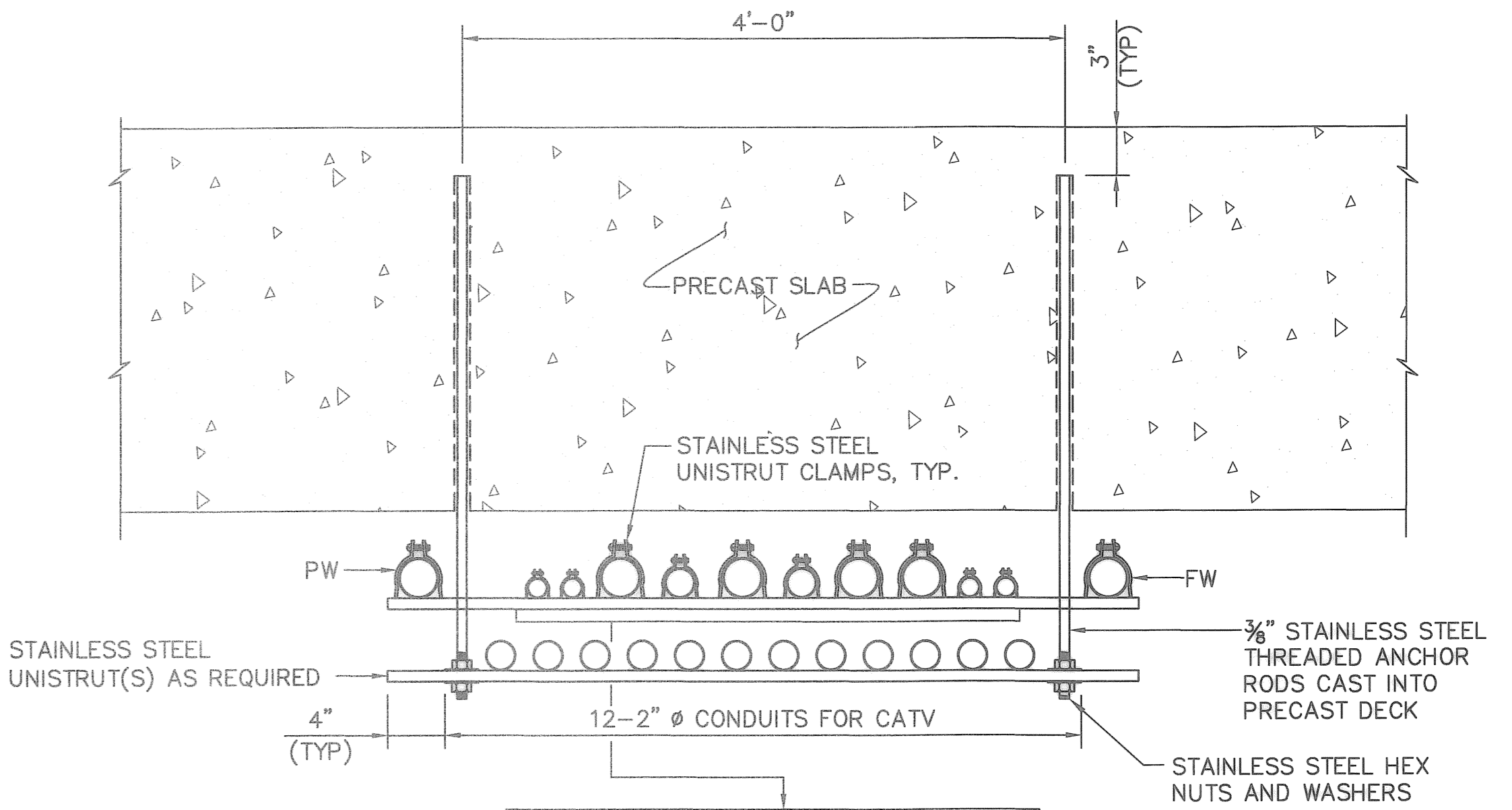


FEEDER CONDUIT SUPPORT SECTION (B)
NOT TO SCALE



DOCKSIDE POWER PEDESTAL DETAIL (2)
NOT TO SCALE
W6

TYPE "A" DUAL METER UNIT SHOWN
POWER PEDESTAL BY MARINA POWER CO. MIAMI FL. (305-470-0037)
POWER PEDESTALS AT DOCK NO. 5 FURNISHED AND INSTALLED BY THE CONTRACTOR.



TYPICAL TRAPEZE HANGER DETAIL (1)
NOT TO SCALE
E12/E12

- NOTES:
- UTILIZE COMMON TRAPEZE FOR POWER, TELE AND CATV CONDUITS WHEREVER POSSIBLE. SEE PLAN FOR QUANTITY OF CONDUITS.
 - ALL HANGER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.
 - DOUBLE TRAPEZE TO G8.
 - PW AND FW SUPPORTED ON TRAPEZE HANGER STARTING AT G14.

SCHEDULE OF DOCKSIDE POWER PEDESTAL						
SYMBOL	PEDESTAL	RECEPTACLE	TELE	CATV	WATER	MARINA POWER CO. PEDESTAL CATALOG NUMBER
(A)	DUAL METER UNIT	2-30/1 2-50/2	2	2	2	PCMFS 12-DB-DB-L-2T-2W-RLF-2M2(FPC)-TP
(B)	SINGLE METER UNIT	1-30/1 1-50/2	1	1	1	PCMFS 12-DB-BLANK-L-1T-1TV-1W-RLF-1M2(FPC)-TP
(C)	SINGLE METER UNIT	1-20/1 1-30/1 1-50/2	1	1	1	PCMFS 12-DBA(GF1)-BLANK-L-1T-1TV-1W-RLF-1M2(FPC)-TP

TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055298

RECORD DRAWINGS

DESIGNED BY: DRM
DRAWN BY: PRB
CHECKED BY: TWS
FIELD BOOK No.
BM No.
LOCATION:

REVISIONS	BY	DATE
RECORD DRAWINGS	JAM	07/30/08

MOFFATT & NICHOL
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

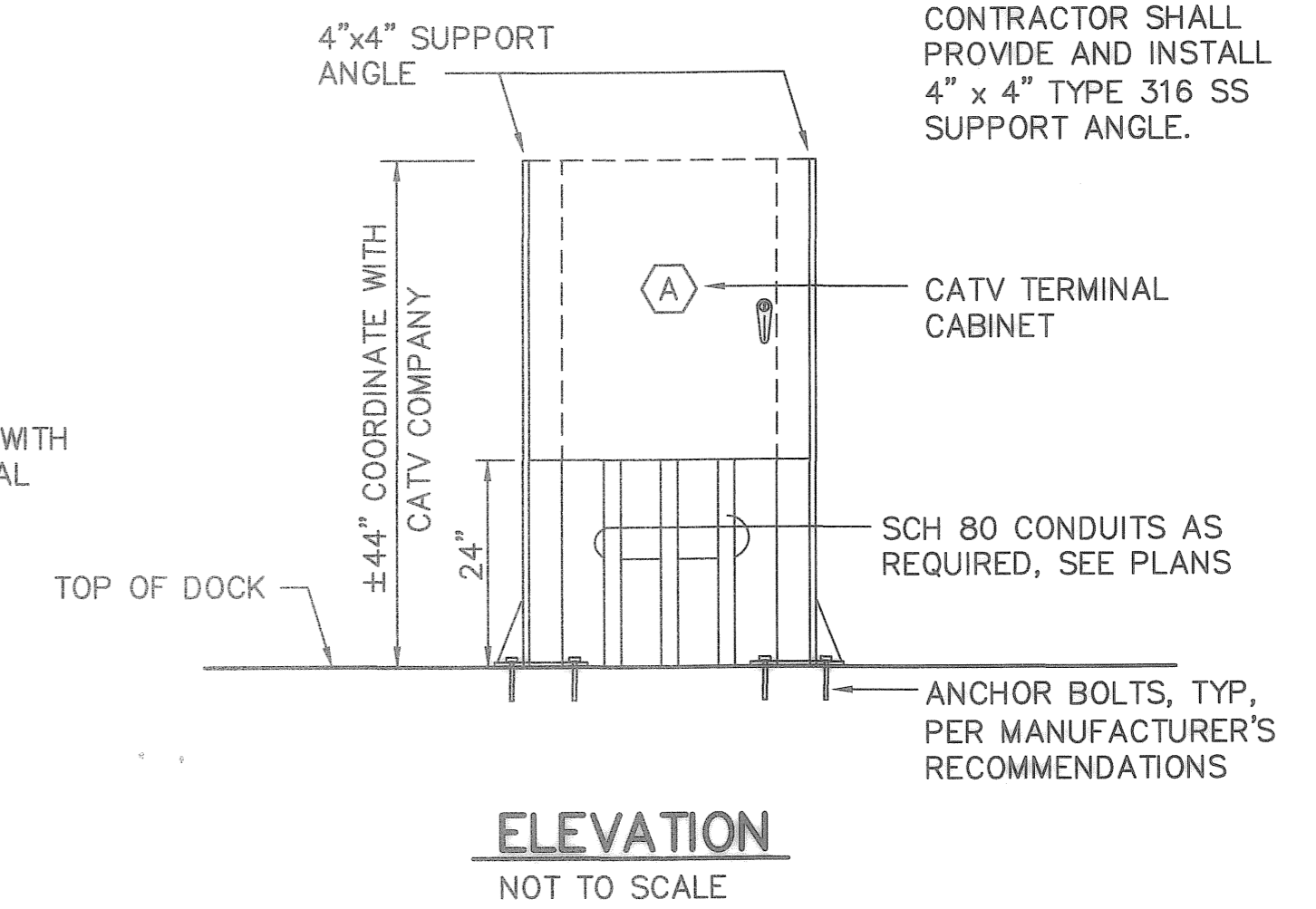
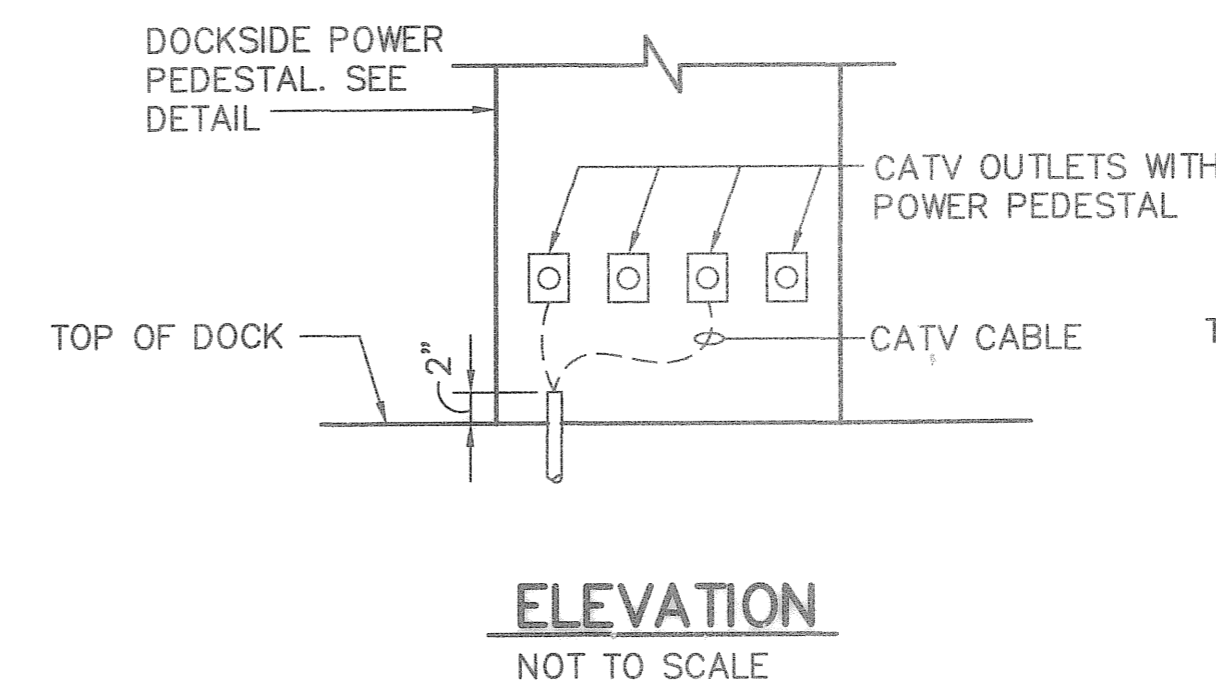
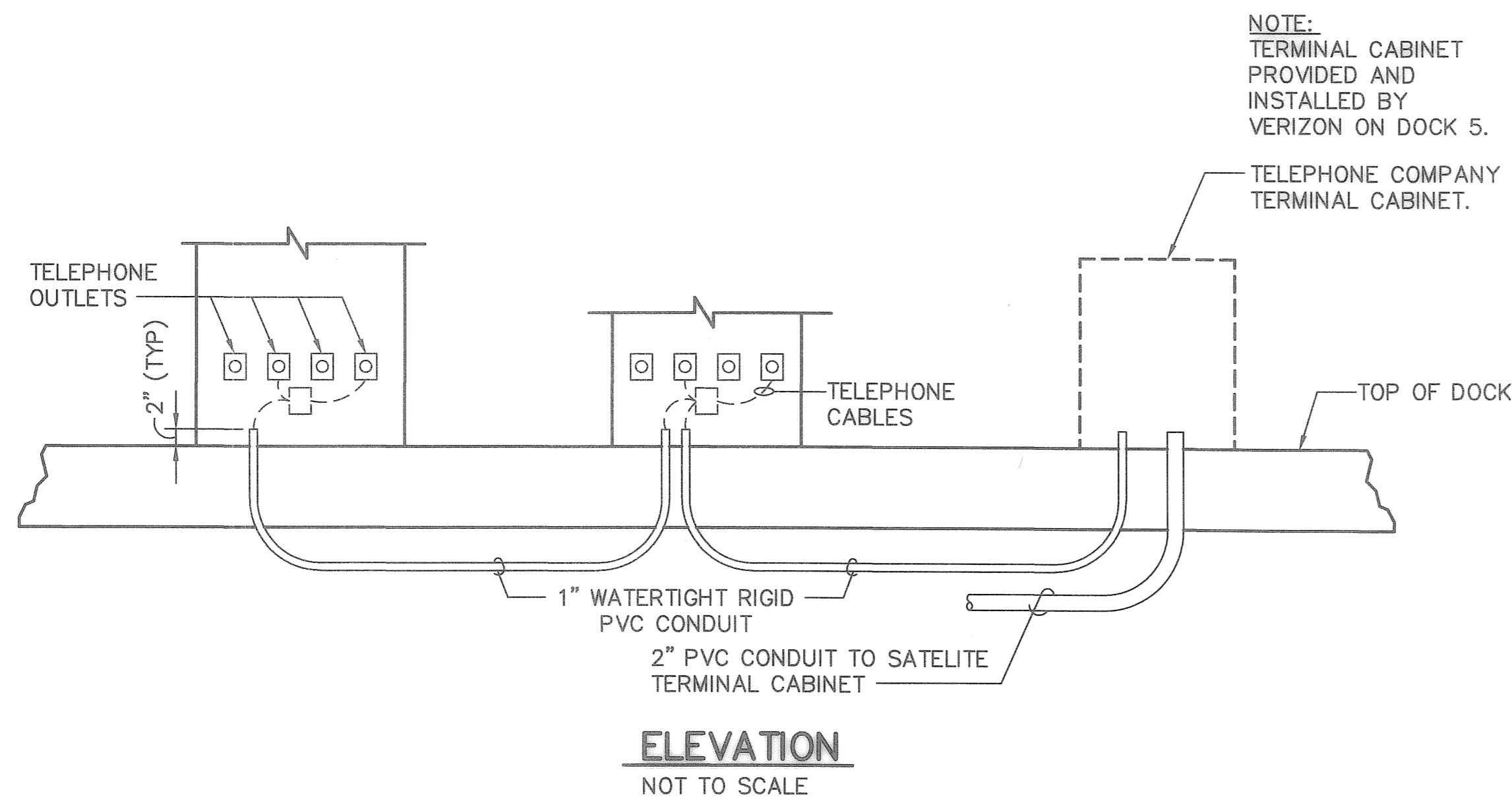
APPROVED BY:
ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
ELECTRICAL & COMMUNICATION DETAILS
SHEET 1 OF 2

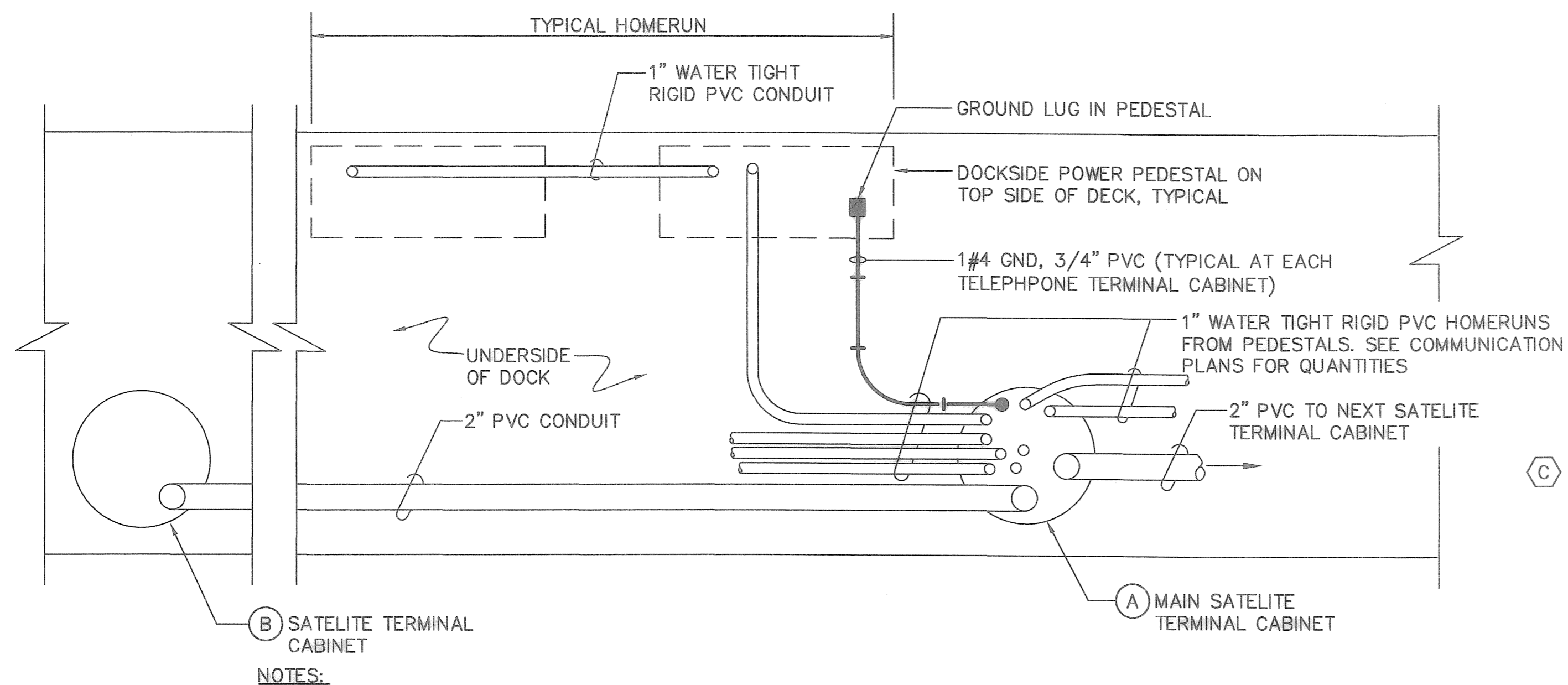
DATE: JULY 2008
SCALE: NONE
DRAWING No. 10175-78
SHEET No. E12

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

P:\5607-05\cadd\Submittals\Pier 5 Record Drawings\560705_E12.dwg, Jul 24, 2008-11:02am, asmith

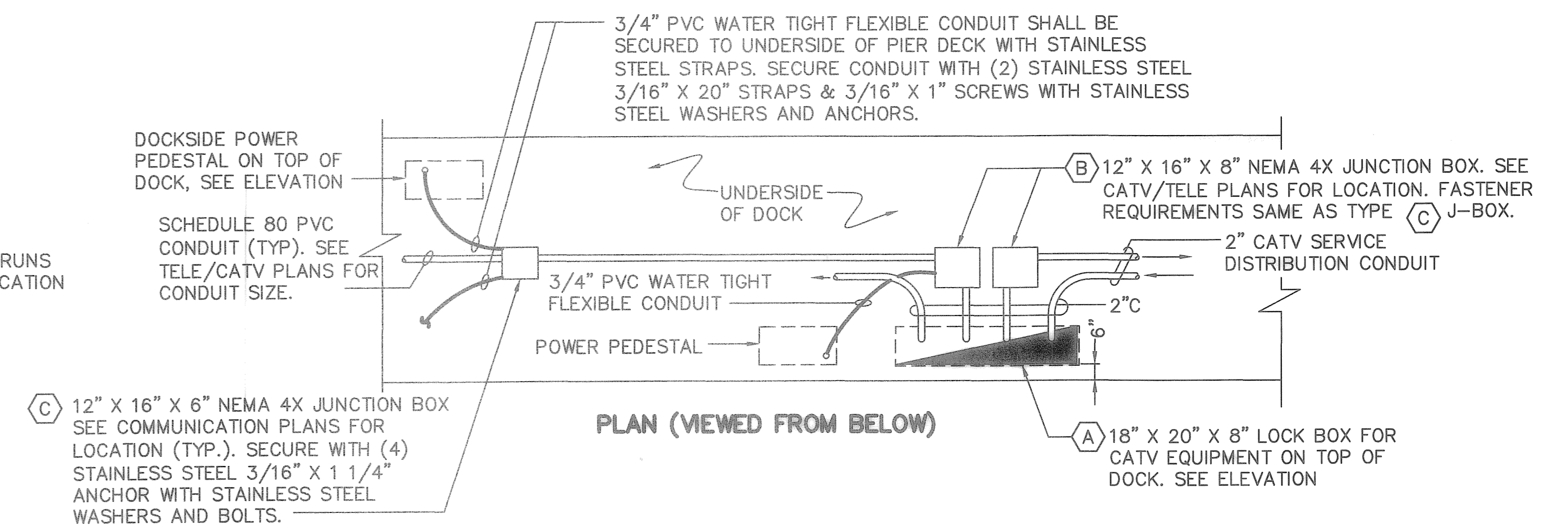


NOTE: TERMINAL CABINET PROVIDED AND INSTALLED BY BRIGHT HOUSE ON DOCK 5. CONTRACTOR SHALL PROVIDE AND INSTALL 4" x 4" TYPE 316 SS SUPPORT ANGLE.



- NOTES:
- 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.
 - PROVIDE 2-1 1/4" SPARE SLEEVES THRU SLAB AT EACH PEDESTAL AND SEAL OFF WITH SILICONE SEALANT.
 - SEE DRAWING NO. E10 "DOCK 5" FOR FEEDERS TO LAND TERMINAL BACKBOARDS.
 - ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL TELEPHONE TO PEDESTAL SERVICE DETAIL 1 E10E13 NOT TO SCALE



NOTES FOR TELEPHONE AND CATV INSTALLATIONS:

- COORDINATE CONDUIT SWEEP SIZE REQUIREMENTS WITH TELEPHONE AND CATV COMPANY BEFORE INSTALLATION.
- PROVIDE TEMPORARY CAPS ON ALL OPEN END OF CONDUITS TO KEEP FREE OF WATER AND DEBRIS.
- GROUT ALL ANULAR SPACES AND CONDUIT PENETRATION THRU SLAB WITH NON-SHRINK GROUT.
- ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL CATV TO PEDESTAL SERVICE DETAIL 2 E10E13 NOT TO SCALE

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TYLER SPARKS, P.E. DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWINGS

DESIGNED BY: DRW DATE: 10/2006
DRAWN BY: PRB DATE: 10/2006
CHECKED BY: TWS DATE: 10/2006
FIELD BOOK No. PAGE THRU
BM No. EL.
LOCATION:

REVISIONS	BY	DATE

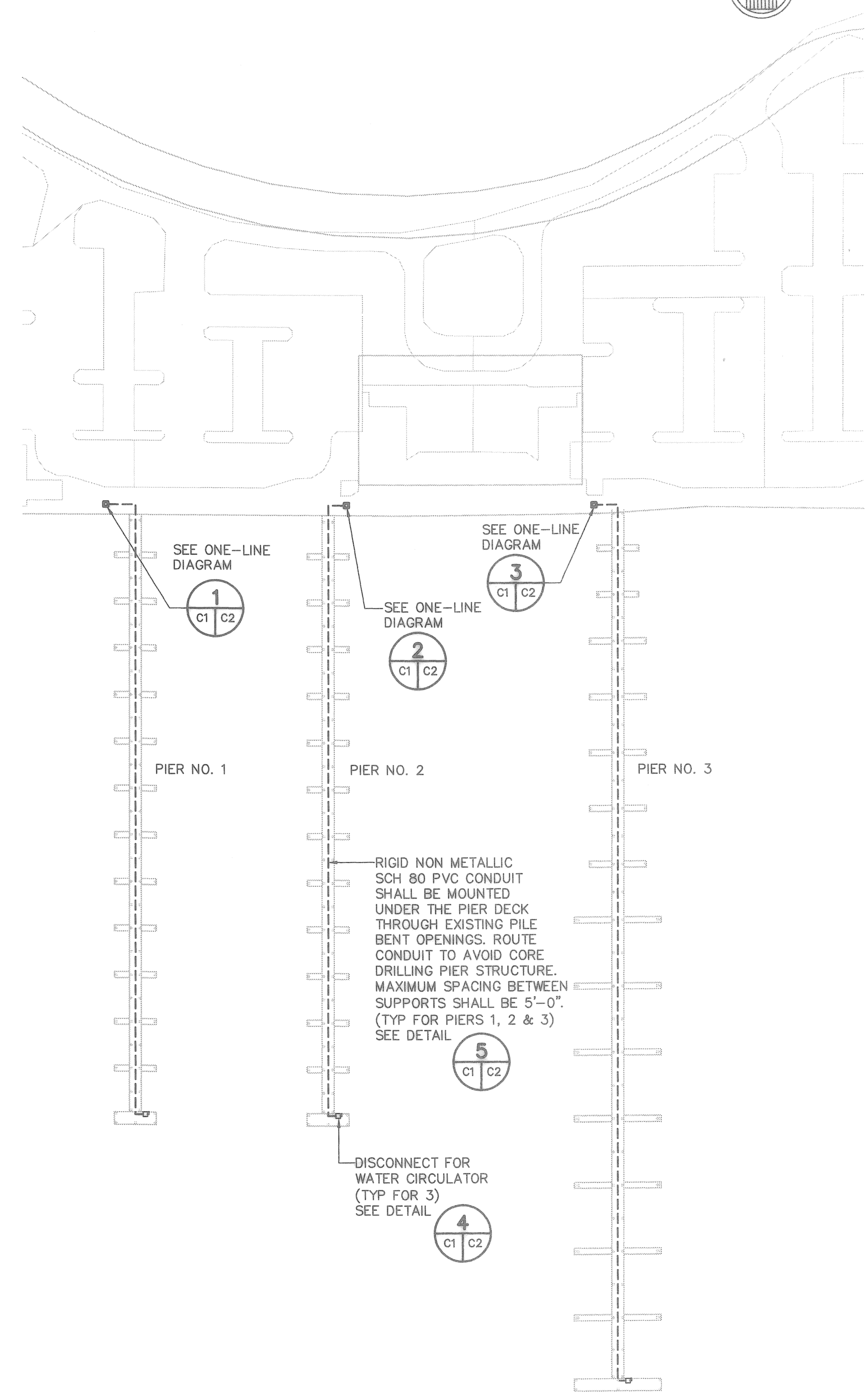
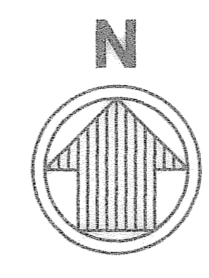
MOFFATT & NICHOL
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
ELECTRICAL & COMMUNICATION DETAILS
SHEET 2 OF 2

DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING
DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-79
SHEET No.

E13

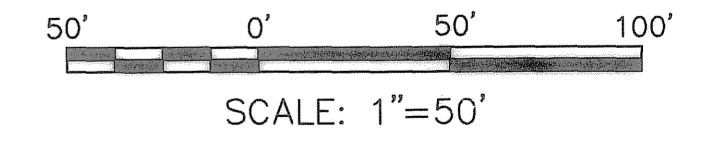


WATER CIRCULATOR PLAN
1"
1"=50'

PIER NO.	TOP OF DECK ELEVATION	CIRCULATOR ELEVATION	DISTANCE FORM WEST END OF T-HEAD
1	+101.32 COSPD	+90.92 COSPD	21'
2	+101.32 COSPD	+90.92 COSPD	8'
3	+101.42 COSPD	+91.02 COSPD	35'

NOTES

1. WATER CIRCULATORS SHALL BE INSTALLED AT THE ENDS OF PIERS NO. 1, 2, 3 IN ACCORDANCE WITH THE FDEP PERMIT. CIRCULATORS SHALL BE 1HP, 208 VOLT SINGLE PHASE, KASCO MODEL NO. 4400 H/CF OR APPROVED EQUAL. ELECTRICAL SERVICE FOR THE CIRCULATORS SHALL BE A SEPARATE LINE FROM THE DOCK ELECTRICAL SERVICE.
2. REFER TO FDEP PERMIT FOR SPECIFICS REGARDING SUBMITTAL AND INSTALLATION REQUIREMENTS AND DEADLINES.
3. LOCATIONS AND ELEVATIONS OF CIRCULATORS PER GFY SURVEY DATED AUGUST 29, 2007.
4. CIRCULATORS CENTERED ON T-HEAD IN N-S DIRECTION.



DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

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TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWINGS

DESIGNED BY: DRM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: PRB	DATE: 10/2006	RECORD DRAWINGS	JAM	07/30/08
CHECKED BY: TWS	DATE: 10/2006			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

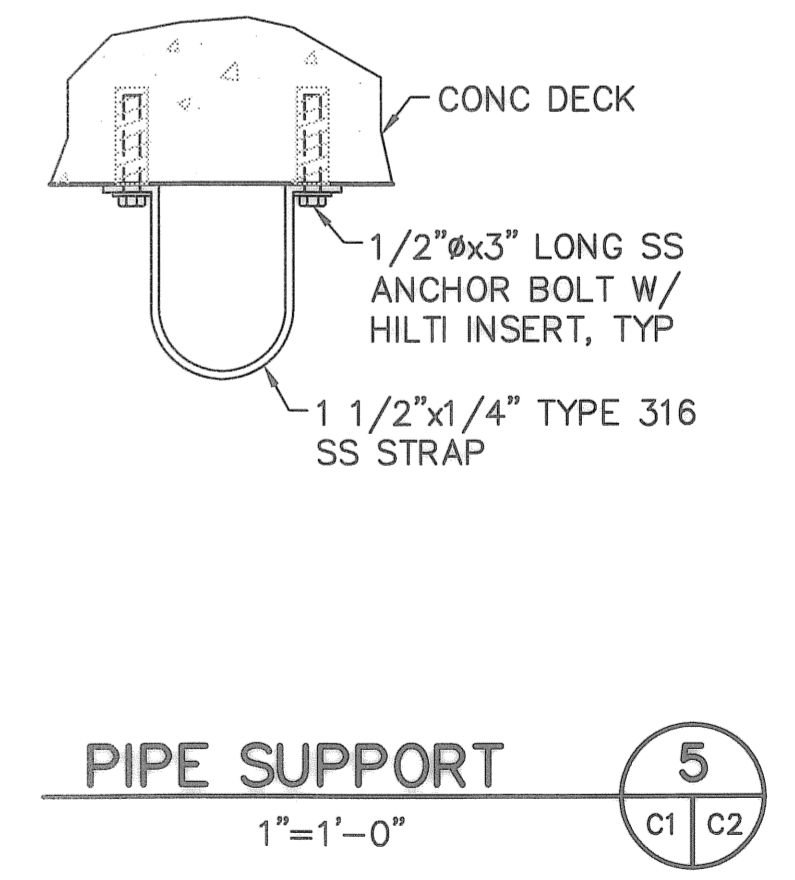
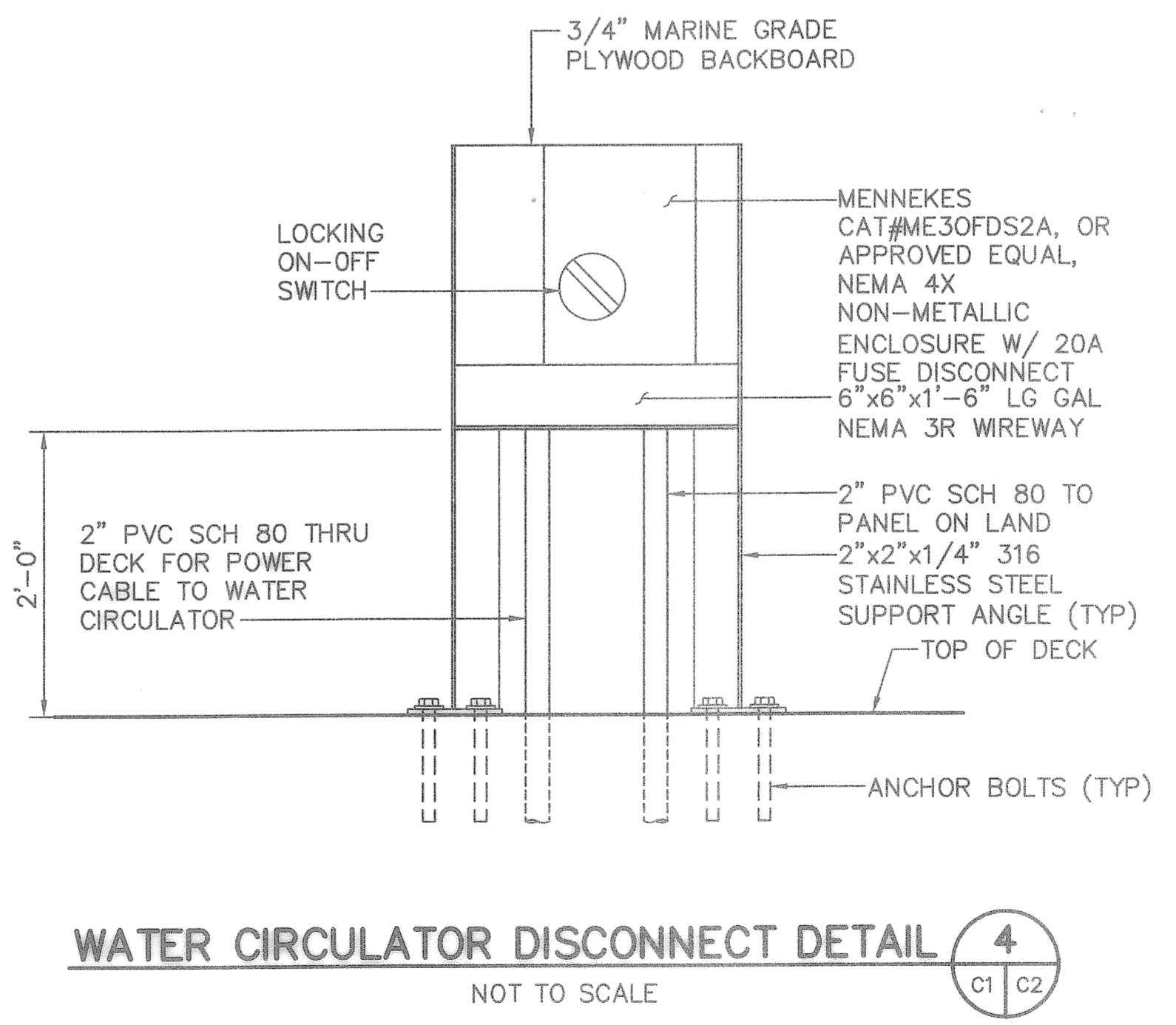
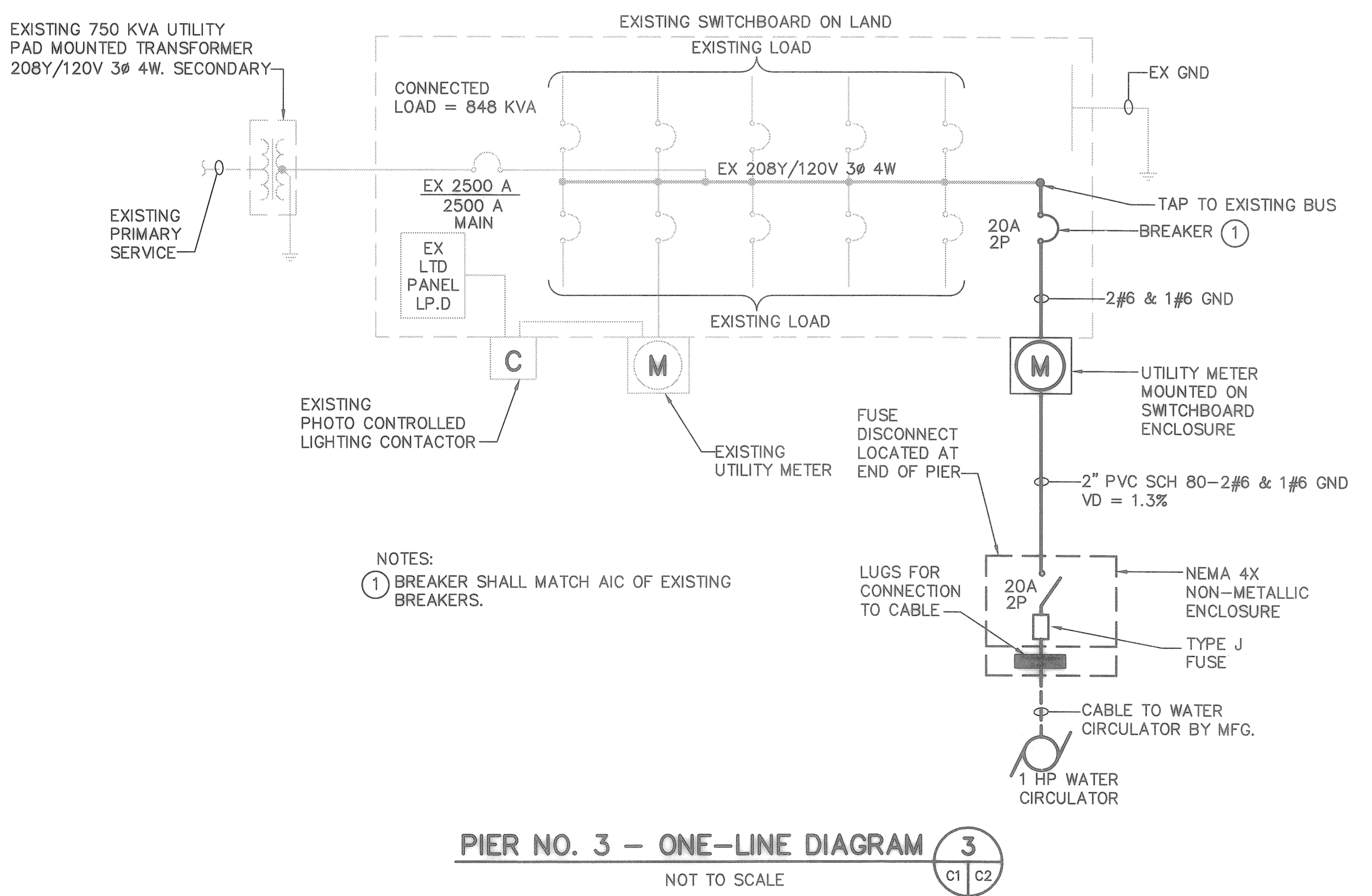
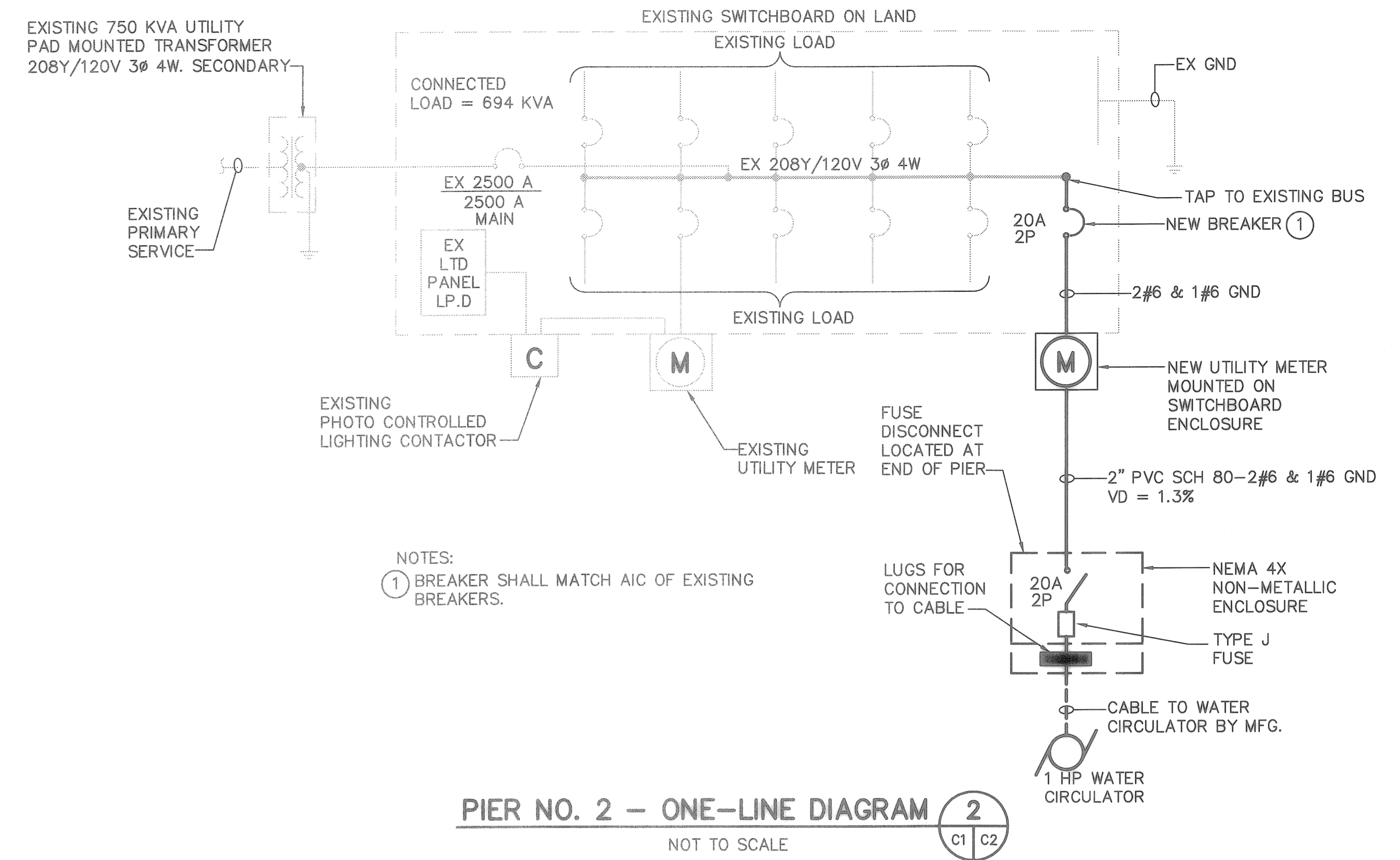
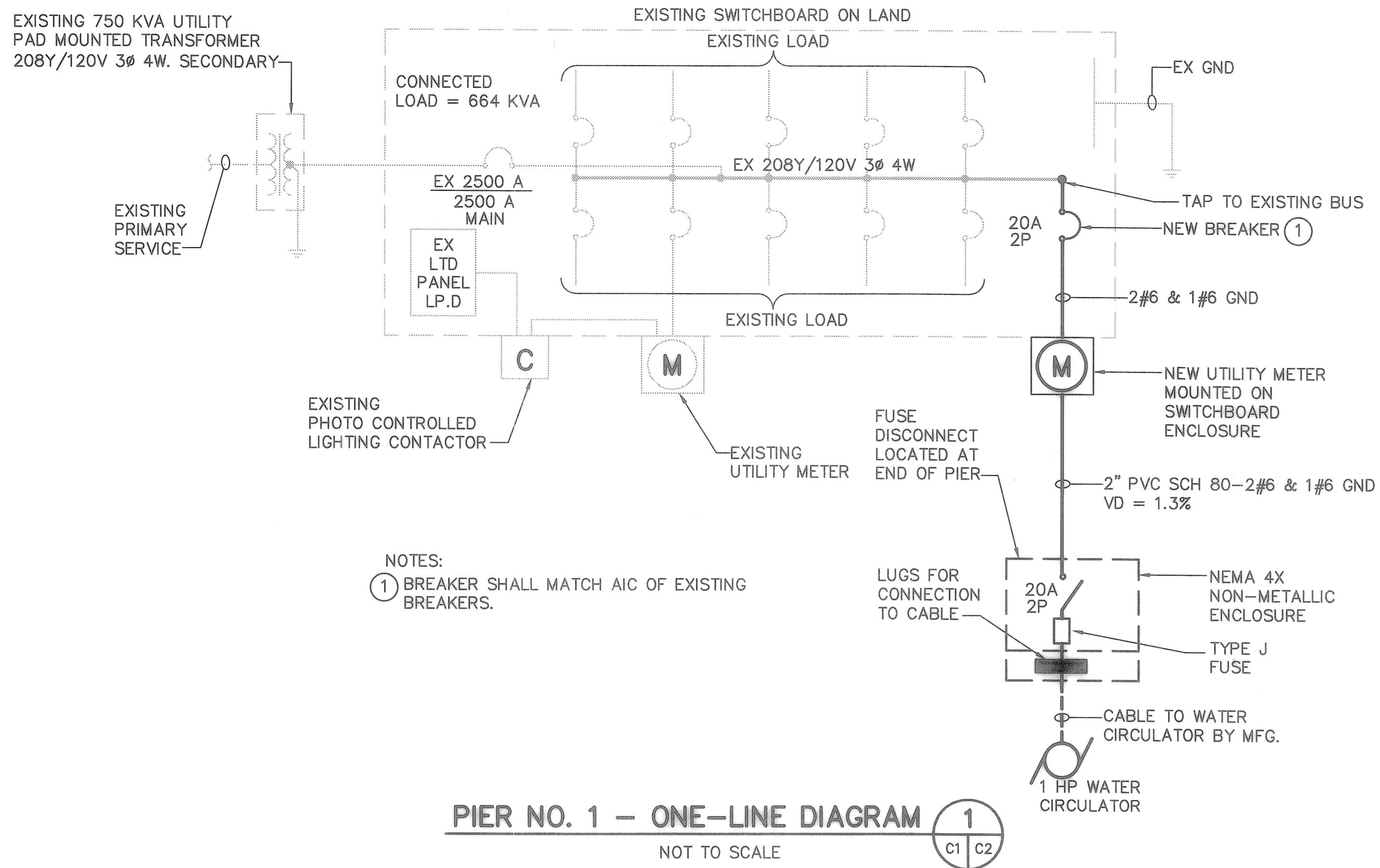
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TAMPA, FLORIDA 33606
813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217

WATER CIRCULATOR PLAN

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-86
SHEET No. C1



DESIGNED BY: DRM	DATE: 10/2006	REVISIONS	BY	DATE
DRAWN BY: PRB	DATE: 10/2006			
CHECKED BY: TWS	DATE: 10/2006			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL			

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1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818

ENGINEERING DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH YACHT BASIN
PIER 5 CONSTRUCTION PROJECT NO. 01074-217
WATER CIRCULATOR DETAILS

DATE: JULY 2008
SCALE: AS SHOWN
DRAWING No. 10175-87
SHEET No. C2

RECORD DRAWINGS

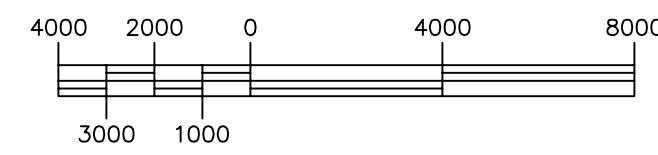
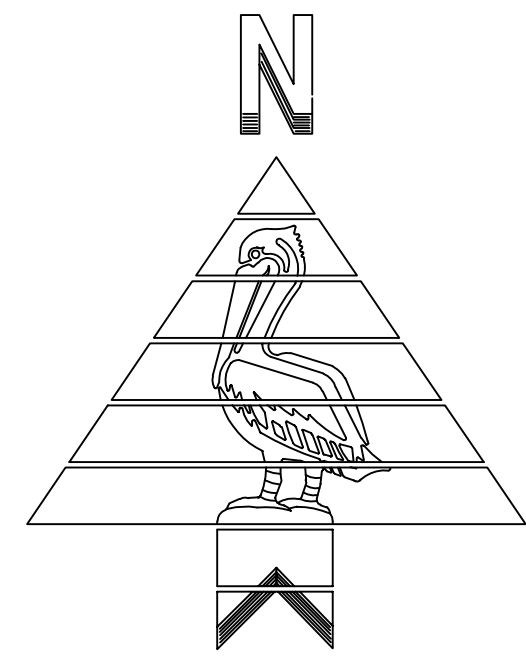
TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

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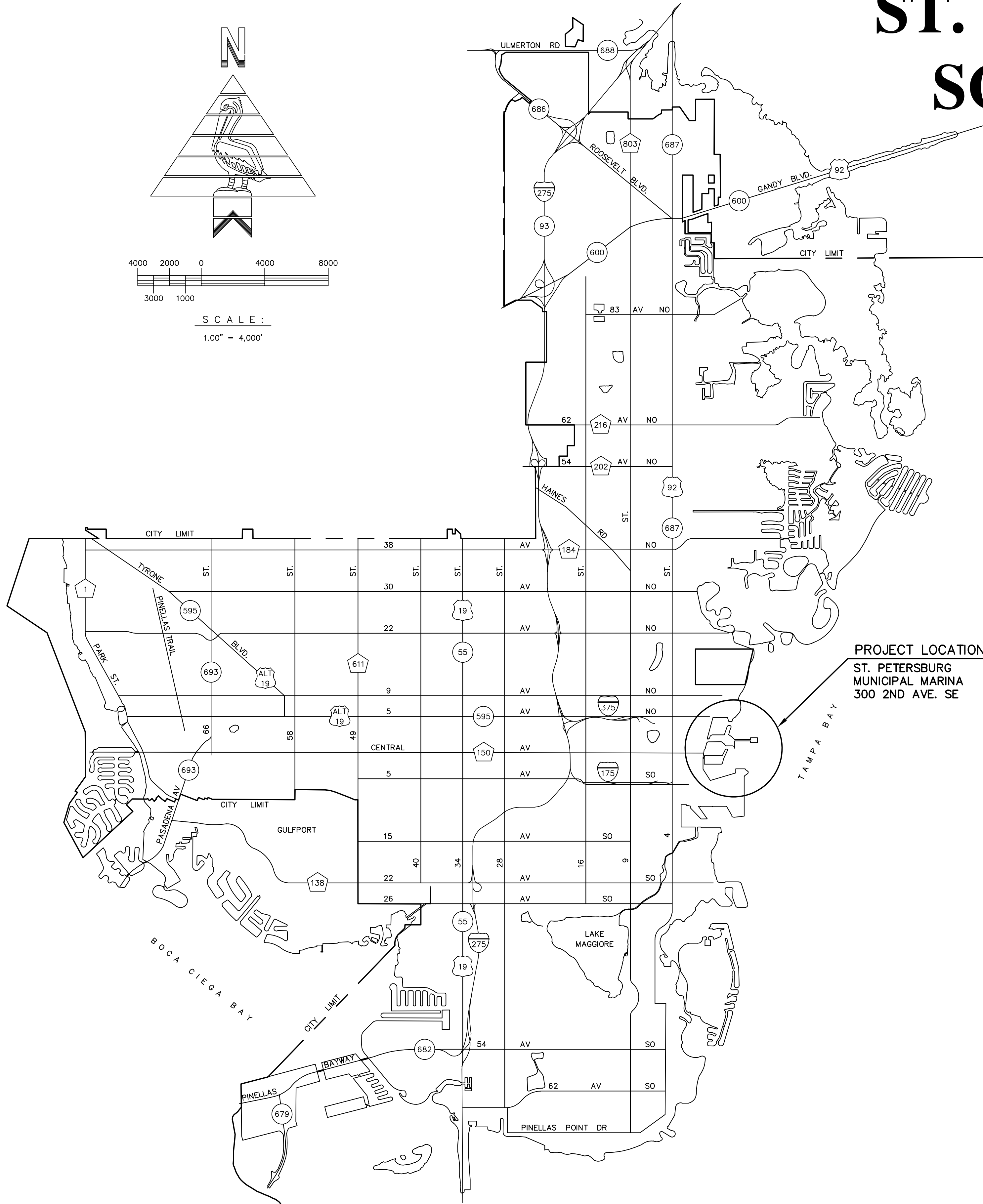
DRAWING SCALES SHOWN BASED ON 24"x36" DRAWING

ST. PETERSBURG MUNICIPAL MARINA, SOUTH & CENTRAL YACHT BASINS, STRUCTURAL REHABILITATION

PROJECT NO. 01074-117R



SCALE :
1.00" = 4,000'



PROJECT LOCATION
ST. PETERSBURG
MUNICIPAL MARINA
300 2ND AVE. SE

DRAWING INDEX		
DRAWING No.	SHEET No.	DESCRIPTION
10175-1	X1	COVER SHEET & INDEX
10175-2	X2	GENERAL NOTES & DESIGN CRITERIA SHEET 1 OF 2
10175-3	X3	GENERAL NOTES & DESIGN CRITERIA SHEET 2 OF 2
10175-4	X4	ABBREVIATIONS & LEGEND
10175-5	X5	OVERALL MARINA SITE PLAN
10175-6	D1	DEMOLITION PLAN CENTRAL DOCKS SHEET 1 OF 2
10175-7	D2	DEMOLITION PLAN CENTRAL DOCKS SHEET 2 OF 2
10175-8	D3	DEMOLITION PLAN WEST DOCKS
10175-9	D4	DEMOLITION PLAN NORTH DOCKS SHEET 1 OF 2
10175-10	D5	DEMOLITION PLAN NORTH DOCKS SHEET 2 OF 2
10175-11	D6	DEMOLITION PLAN FUEL AND PUMP-OUT DOCKS
10175-12	D7	DEMOLITION DETAILS SHEET 1 OF 4
10175-13	D8	DEMOLITION DETAILS SHEET 2 OF 4
10175-14	D9	DEMOLITION DETAILS SHEET 3 OF 4
10175-15	D10	DEMOLITION DETAILS SHEET 4 OF 4
10175-16	S1	STRUCTURAL PLAN SOUTH DOCKS SHEET 1 OF 2
10175-17	S2	STRUCTURAL PLAN SOUTH DOCKS SHEET 2 OF 2
10175-18	S3	STRUCTURAL PLAN PROPOSED PIER NO. 5 (NIC)
10175-19	S4	STRUCTURAL PLAN CENTRAL DOCKS SHEET 1 OF 2
10175-20	S5	STRUCTURAL PLAN CENTRAL DOCKS SHEET 2 OF 2
10175-21	S6	STRUCTURAL PLAN WEST DOCKS
10175-22	S7	STRUCTURAL PLAN NORTH DOCKS SHEET 1 OF 2
10175-23	S8	STRUCTURAL PLAN NORTH DOCKS SHEET 2 OF 2
10175-24	S9	STRUCTURAL PLAN FUEL AND PUMP-OUT DOCKS
10175-25	S10	DOCK HOUSES PLAN, ELEVATION & SECTIONS
10175-26	S11	CENTRAL DOCKS LANDSIDE BUILDINGS PLAN, ELEVATION & SECTIONS
10175-27	S12	CENTRAL DOCKS CANOPY SECTIONS
10175-28	S13	STRUCTURAL REPAIR SCHEDULE SHEET 1 OF 7
10175-29	S14	STRUCTURAL REPAIR SCHEDULE SHEET 2 OF 7
10175-30	S15	STRUCTURAL REPAIR SCHEDULE SHEET 3 OF 7
10175-31	S16	STRUCTURAL REPAIR SCHEDULE SHEET 4 OF 7
10175-32	S17	STRUCTURAL REPAIR SCHEDULE SHEET 5 OF 7
10175-33	S18	STRUCTURAL REPAIR SCHEDULE SHEET 6 OF 7
10175-34	S19	STRUCTURAL REPAIR SCHEDULE SHEET 7 OF 7
	S19A	STRUCTURAL REPAIR SCHEDULE
10175-35	S20	CANOPY REPAIR DETAILS
10175-36	S21	FUEL AND PUMP-OUT DOCKS DETAILS
10175-37	S22	CONCRETE REPAIR DETAILS SHEET 1 OF 2
10175-38	S23	CONCRETE REPAIR DETAILS SHEET 2 OF 2
	S23A	CAP REPAIR DETAILS
10175-39	S24	DECK REPLACEMENT DETAILS SHEET 1 OF 2
10175-40	S25	DECK REPLACEMENT DETAILS SHEET 2 OF 2
10175-41	S26	PIER NO. 5 SECTIONS & DETAILS SHEET 1 OF 3 (NIC)
10175-42	S27	PIER NO. 5 SECTIONS & DETAILS SHEET 2 OF 3 (NIC)
10175-43	S28	PIER NO. 5 SECTIONS & DETAILS SHEET 3 OF 3 (NIC)
10175-44	S29	PRESTRESSED CONCRETE PILE DETAILS (NIC)

DRAWING INDEX		
DRAWING No.	SHEET No.	DESCRIPTION
10175-45	S30	MISCELLANEOUS DETAILS
10175-46	F1	FIREWATER PLAN SOUTH DOCKS SHEET 1 OF 2
10175-47	F2	FIREWATER PLAN SOUTH DOCKS SHEET 2 OF 2
10175-48	F3	FIREWATER PLAN PIER NO. 5 (NIC)
10175-49	F4	FIREWATER PLAN CENTRAL DOCKS SHEET 1 OF 2
10175-50	F5	FIREWATER PLAN CENTRAL DOCKS SHEET 2 OF 2
10175-51	F6	FIREWATER PLAN WEST DOCKS
10175-52	F7	FIREWATER PLAN NORTH DOCKS SHEET 1 OF 2
10175-53	F8	FIREWATER PLAN NORTH DOCKS SHEET 2 OF 2
10175-54	F9	FIREWATER PLAN ALTERNATE 1 CENTRAL DOCKS SHEET 1 OF 2
10175-55	F10	FIREWATER PLAN ALTERNATE 1 CENTRAL DOCKS SHEET 2 OF 2
10175-56	F11	FIREWATER PLAN ALTERNATE 1 WEST DOCKS
10175-57	F12	FIREWATER PLAN ALTERNATE 1 NORTH DOCKS SHEET 1 OF 2
10175-58	F13	FIREWATER PLAN ALTERNATE 1 NORTH DOCKS SHEET 2 OF 2
10175-59	F14	FIREWATER DETAILS SHEET 1 OF 2 (NIC)
10175-60	F15	FIREWATER DETAILS SHEET 2 OF 2
10175-62	W1	POTABLE WATER PLAN WEST DOCKS (NIC)
10175-63	W3	POTABLE WATER PLAN NORTH DOCKS SHEET 1 OF 2
10175-64	W4	POTABLE WATER PLAN NORTH DOCKS SHEET 2 OF 2
10175-65	W5	POTABLE WATER PLAN FUEL DOCK
10175-66	W6	POTABLE WATER DETAILS
10175-67	E1	ELECTRICAL SITE PLAN, ABBREVIATIONS, SYMBOL LIST AND GENERAL NOTES
10175-68	E2	ELECTRICAL PLAN WEST DOCKS
10175-69	E3	ELECTRICAL PLAN NORTH DOCKS SHEET 1 OF 2
10175-70	E4	ELECTRICAL PLAN NORTH DOCKS SHEET 2 OF 2
10175-71	E5	ELECTRICAL PLAN PIER NO. 5 (NIC)
10175-72	E6	ELECTRICAL PLAN FUEL DOCK
10175-73	E7	COMMUNICATION PLAN WEST DOCKS
10175-74	E8	COMMUNICATION PLAN NORTH DOCKS SHEET 1 OF 2
10175-75	E9	COMMUNICATION PLAN NORTH DOCKS SHEET 2 OF 2
10175-76	E10	COMMUNICATION PLAN PIER NO. 5 (NIC)
10175-77	E11	SINGLE LINE DIAGRAM, PANEL AND CONDUIT & FEEDER SCHEDULES
10175-78	E12	ELECTRICAL & COMMUNICATION DETAILS SHEET 1 OF 2
10175-79	E13	ELECTRICAL & COMMUNICATION DETAILS SHEET 2 OF 2
10175-80	E14	FUEL TANKS ELECTRICAL PLAN & DETAILS
10175-81	H1	FUEL SYSTEM MECHANICAL NOTES & LEGEND
10175-82	H2	FUEL DOCK PLAN & DETAILS
10175-83	H3	FUEL TANKS DEMOLITION PLAN & DETAILS
10175-84	H4	FUEL TANKS PLAN, SECTION & DETAILS
10175-85	H5	FUEL TANKS PLAN, SECTIONS & DETAILS

NOTE:
DRAWINGS NOTED IN INDEX AS NOT IN CONTRACT (NIC) ARE EXCLUDED FROM THIS PLAN SET.

ENGINEERING, STORMWATER, &
TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG, FL.

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

APPROVED FOR BID

DATE _____ MICHAEL J. CONNORS, P.E.
DIRECTOR OF ENGINEERING, STORMWATER, &
TRAFFIC OPERATIONS DEPARTMENT

RECORD DRAWING
ISSUED 09 AUGUST 2007

COPY No. _____
DATE: June 24, 2005
DRAWING No. 10175-1

Fri, 17 Aug 2007 11:38am P:\6607-03\submittals\2007-06-14 Ad Built\4817-14_X01.dwg tvd:dz

GENERAL NOTES

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS, SPECIFICATIONS AND FDOT STANDARD SPECIFICATIONS. FDOT STANDARD SPECIFICATIONS ARE REFERENCED FOR MATERIAL SPECIFICATIONS AND CONSTRUCTION METHODS UNDER DIVISION II "CONSTRUCTION DETAILS". DIVISION I "GENERAL REQUIREMENTS AND CONVENANTS" OF THE FDOT STANDARD SPECIFICATIONS DOES NOT APPLY. THE CONTRACT DOCUMENTS WITH THE OWNER SHALL GOVERN OVER FDOT SPECIFICATIONS WHERE THEY ARE NOT IN AGREEMENT. MEANS OF MEASUREMENT AND PAYMENT SHALL BE AS STIPULATED BY THE OWNER AND THE CONTRACT. FDOT STANDARD SPECIFICATIONS REFER TO THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROADWAY AND BRIDGE CONSTRUCTION", 2000 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS. (FDOT SSRBC)
- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
- SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED LANDFILL.
- THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, BOOMS, TARPAULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY AS TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIR BORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER. SEE PERMIT CONDITIONS.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
- VERTICAL CONTROL IS BASED UPON CITY OF ST. PETERSBURG DATUM (COSPD) OF ELEVATION 97.00 EQUAL TO 0.00 MSL.
- THE FOLLOWING DATA IS PROVIDED CONCERNING TIDAL INFORMATION BASED ON NOAA STATION 8726520 ST. PETERSBURG, FL:
 MHHW = +98.05 COSPD
 MHW = +97.77 COSPD
 MSL = +97.00 COSPD
 MLW = +96.20 COSPD
 MLLW = +95.81 COSPD
- ALL SUBAQUEOUS DEBRIS NOT RESULTING FROM THE CONTRACTORS WORK AND EXISTING FOUNDATIONS UNCOVERED DURING DEMOLITION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING AND COORDINATING ALL ELEMENTS OF THE PROJECT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS. IF ANY MODIFICATIONS ARE REQUIRED IN ANY ELEMENT, THE CONTRACTOR SHALL SUBMIT PROPOSED CHANGES TO THE ENGINEER FOR APPROVAL.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH FIREWATER, POTABLE WATER, AND ELECTRICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO CITY APPROVED SHOP DRAWINGS AND WORK.
- CONSTRUCTION LOADS GREATER THAN 50% OF THE DESIGN LOAD FOR ANY PORTION OF THE STRUCTURE SHALL NOT BE IMPOSED UNTIL THE CONCRETE CYLINDER STRENGTH FOR THOSE MEMBERS AND THEIR CONNECTING POURS HAVE REACHED 80% OF THE 28 DAY DESIGN STRENGTH.
- CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS WITH EXISTING UTILITIES.
- THE CONTRACTOR SHALL REMOVE ALL BARGES, WORK BOATS, STAGING, AND OTHER TEMPORARY PLATFORMS AND/OR AREAS AT THE COMPLETION OF WORK.
- CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING A BID FOR THE PROJECT.
- CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO THE ENGINEER.
- ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONSTRUCTION ACTIVITIES (OR ACCESS TO THE WORK SITE) RELATED TO THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, TO CURRENT STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS AND REPORTING REQUIREMENTS.
- WORK SHALL BE PERFORMED DURING DAYLIGHT HOURS UNLESS APPROVED BY THE CITY.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT ALL CONSTRUCTION/ACTIVITIES MUST CONFORM TO CITY OF ST. PETERSBURG NOISE CODE.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE DOCK MASTER SO AS TO MINIMIZE DISRUPTION OF MARINA OPERATIONS AND BERTHED VESSELS.
- THE CONTRACTOR SHALL NOTIFY AND SOLICIT APPROVAL FROM THE DOCK MASTER A MINIMUM OF 48 HOURS PRIOR TO ANY DISRUPTION OF DOCK ACCESS AND UTILITIES TO AFFECTED BOAT TENANTS.
- CONTRACTOR SHALL COMPLY WITH MANATEE PROTECTION REQUIREMENTS IN THE PERMITS AND CITY'S MANATEE PROTECTION PLAN.

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

- CONSTRUCTION SEQUENCE SHALL CONFORM TO THE DESIGNATED PHASES. CONTRACTOR SHALL REFER TO SECTION 1 - "GENERAL" OF TECHNICAL SPECIFICATIONS FOR PREFERRED CONSTRUCTION SEQUENCE. CONTRACTOR SHALL PROVIDE SCHEDULE TO OWNER AND SUBMIT UPDATED SCHEDULE TO OWNER WEEKLY.

GENERAL NOTES (CONT'D)

- CONSTRUCTION EQUIPMENT AND MATERIALS MAY BE STORED ONLY IN THE AREAS DESIGNATED BY OWNER FOR CONTRACTOR'S USE.
- PARKING AT THE MARINA IS LIMITED TO COMMERCIAL DELIVERY AND EQUIPMENT VEHICLES ONLY. CONTRACTOR EMPLOYEES ARE RESPONSIBLE FOR PERSONAL VEHICLE PARKING.
- ALL UTILITIES AT ACTIVE SLIPS SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION EXCEPT FOR TEMPORARY PERIODS IN WHICH AN INTERRUPTION BETWEEN THE HOURS OF 9:00 A.M. TO 5:00 P.M. WILL BE ALLOWED WHEN PRECEDED BY 48 HOURS NOTICE TO THE DOCKMASTER.
- TEMPORARY ELECTRICAL POWER SHALL BE PROVIDED TO MAINTAIN SERVICE TO SLIPS. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SERVICE AT THE CONTRACTOR'S EXPENSE. THE COST OF POWER CONSUMED BY THE BOAT OWNERS WILL BE PAID BY THE CITY.
- DISPLACEMENT OF BOATS FOR CONTRACTOR'S ACCESS SHALL BE COORDINATED WITH THE DOCKMASTER. SEE SPECIFICATIONS FOR SPECIFIC PROVISIONS.
- CONTRACTOR SHALL COMPLY WITH COAST GUARD REGULATIONS TO PROTECT AND MAINTAIN ALL BOAT TRAFFIC. CONTRACTOR SHALL NOT INTERFERE WITH NORMAL BOAT TRAFFIC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DEBRIS AND DUST, RESULTING FROM CONSTRUCTION, FROM BOATS AND CARS IN THE VICINITY OF CONSTRUCTION.
- THE PHRASE "ALTERNATE 1" AS CITED ON SPECIFIC FIREWATER (FW) PLAN SHEETS REFERS TO "ADD-ALTERNATE BID NO. 1" AS MORE PARTICULARLY DESCRIBED IN SECTION 20 - "PAY ITEM DESCRIPTIONS" OF THE TECHNICAL SPECIFICATIONS.
- DUE TO MARINA'S CLOSE PROXIMITY TO ALBERT WHITTED AIRPORT, THE CONTRACTOR'S BARGE MOUNTED CRANE(S) (AND ALL OTHER "TALL" EQUIPMENT) SHALL HAVE AN ORANGE/WHITE CHECKERED FLAG FIXED TO THE TOP OF THE CRANE'S BOOM. THE CRANE SHALL ONLY BE PERMITTED TO OPERATE DURING DAYLIGHT HOURS AND ITS BOOM SHALL BE LOWERED DURING EVENING HOURS. THE CONTRACTOR SHALL NOTIFY THE AIRPORT MANAGER, RICHARD LESNIAK (727-893-7657) AT LEAST 3 BUSINESS DAYS PRIOR TO MOBILIZATION.

DESIGN CRITERIA

- DOCKS: UNIFORM LIVE LOAD 50 PSF
 CONCENTRATED LIVE LOAD 650 LB
- PILES: BEARING CAPACITY: 200 TON
 LATERAL LOAD: 6000 LB
- WIND: 50 MPH GUST WITH VESSELS IN PLACE

MATERIALS AND CONSTRUCTION NOTES

CONCRETE AND REINFORCING STEEL

- ALL CONCRETE MATERIALS, METHODS, SUBMITALS, AND WORKMANSHIP SHALL CONFORM TO SECTION 346 OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2000 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS, CLASS IV, UNLESS OTHERWISE NOTED ON THE PLANS.
- MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - CONCRETE 28 DAY STRENGTH
 - CIP CAPS AND SLABS 5500 PSI
 - REINFORCING STEEL

REINFORCING STEEL	ASTM A615, GRADE 60
WELDED WIRE FABRIC	ASTM A185
- PROVIDE 1" CHAMFERS ON ALL CORNERS AND JOINTS, UNLESS OTHERWISE NOTED.
- DCI CORROSION INHIBITOR, ASTM C494 ADMIXTURE, SHALL BE ADDED AT 3.0 GAL/CY AS MANUFACTURED BY W.R. GRACE & CO. OR APPROVED EQUAL.
- CONTRACTOR SHALL REPAIR ALL SURFACE BLEMISHES IN CONCRETE WITHIN 24 HOURS AFTER FORM REMOVAL.
- ALL CONSTRUCTION JOINTS BETWEEN CAST-IN-PLACE CONCRETE SHALL BE COATED WITH EPOXY BONDING AGENT.
- PROVIDE 3" CONCRETE COVER OVER STEEL UNLESS OTHERWISE NOTED.

STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. ALL WELDING SHALL CONFORM TO AWS D1.1.
- MATERIAL SHALL CONFORM TO THE FOLLOWING, UON:

SHAPES, BARS, AND PLATESASTM A 36
ANCHOR BOLTSTYPE 316 STAINLESS STEEL
ADHESIVE ANCHORSASTM F 593 & ASTM F 594
CHANNELSASTM A572 GRADE 50
- ALL MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, ANGLES, INSERTS, PLATES, ETC. SHALL BE ZINC-COATED OR GALVANIZED BY THE HOT-DIPPED PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 123, A 153, OR A 525 GR 90, AS APPLICABLE OR UON, AFTER FABRICATION, UON.

- FIELD TREAT DAMAGED GALVANIZED FINISH AND EXPOSED THREADED SURFACES WITH TWO COATS OF ZINC RICH PAINT CONFORMING TO ASTM A 780.
- ALL TEMPORARY FENCING SHALL BE CHAIN LINK FENCING IN ACCORDANCE WITH STANDARD INDEX NO. 452 OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (JANUARY 2000). OWNER SHALL PROVIDE LIMITS OF FENCING.

TURBIDITY BARRIERS AND TESTING

- TURBIDITY BARRIERS SHALL BE MANUFACTURED IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 103.
- DURING THE MARINA DEMOLITION AND CONSTRUCTION, THE CONTRACTOR SHALL MONITOR THE TURBIDITY LEVELS TO ENSURE THAT STATE WATER QUALITY STANDARDS ARE MAINTAINED AND CONSTRUCTION METHODS ARE IN ACCORDANCE WITH THE PERMITS.
- REPORTING SHALL BE IN ACCORDANCE WITH THE PERMITS.
- THE COST OF ALL PERMIT INDUCED MONITORING REPORTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PROPOSAL.

INSTALLATION OF ANCHOR BOLTS AND ADHESIVE ANCHORS

- INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH FDOT SECTION 416.
- INSTALL ANCHOR BOLTS IN ACCORDANCE WITH FDOT SECTION 460-30.
- ANCHOR EMBEDMENT AND HOLE DIAMETER SHALL BE PER MANUFACTURER'S RECOMMENDATIONS TO DEVELOP 150% OF THE ANCHOR BOLT TENSILE CAPACITY.
- USE A CARBIDE TIP ROTARY DRILL. PERCUSSION ROCK DRILLS SHALL NOT BE PERMITTED.
- PREPARE A TEMPLATE AND DRILL REQUIRED HOLES.
- FOLLOW EPOXY MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION OF THE ANCHORS.
- FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE MIXING AND APPLICATION OF EPOXY.
- TESTING: TESTS WILL BE REQUIRED ON 10% OF EACH TYPE OF ANCHOR. EACH ANCHOR SHALL BE TESTED TO 125% OF THE CAPACITY OF THE ANCHOR IN TENSION.
- CONTRACTOR SHALL SUBMIT TESTING PROCEDURES FOR APPROVAL BY THE ENGINEER. CONTRACTOR SHALL MAINTAIN THE SIZE AND LOCATION OF ALL ANCHORS UNLESS APPROVED BY THE ENGINEER.

PILE DRIVING

- PILE DRIVING PROCEDURES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 455-5 EXCEPT AS AMMENDED IN THESE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PROVIDE INFORMATION ON PILE DRIVING HAMMER AND ACCESSORIES TO BE USED ON THIS JOB TO THE ENGINEER FOR APPROVAL. CONTRACTOR SHALL OBTAIN APPROVAL PRIOR TO MOBILIZING PILE DRIVING EQUIPMENT.
- IF PILES ARE APPROVED FOR JETTING INTO PLACE, THE PILES SHALL BE DRIVEN THE LAST FIVE FEET WITH A HAMMER MEETING FDOT SPECIFICATION 455-3.3. JETTING MUST CONFORM TO PERMIT REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE PILE DRIVING LOGS FOR ALL PILES. PILE DRIVING LOGS SHALL BE SUPPLIED WITHIN 3 WORKING DAYS OF DRIVING EACH PILE.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER OF ANY PILE THAT DOES NOT REACH THE REQUIRED PILE TIP ELEVATION.
- PILE LOAD TESTS ARE REQUIRED AS INDICATED IN THE TECHNICAL SPECIFICATIONS FOR "PRESTRESSED CONCRETE PILES".

TIMBER PILES

- TIMBER PILES SHALL BE 12" MIN. BUTT DIAMETER IN ACCORDANCE WITH FDOT SECTION 455.
- CUT-OFF ELEVATION OF TIMBER PILES SHALL BE +105 COSPD.
- TIMBER PILES SHALL BE 50' LONG.
- TIMBER PILES SHALL BE CCA TREATED IN ACCORDANCE WITH FDOT SECTION 455. PILES SHALL WRAPPED FROM +99 COSPD TO 2' BELOW MUDLINE WITH 0.030 HDPE OR APPROVED EQUAL.

PAINTING

- BUILDING PAINT (EXTERIOR & INTERIOR) SHALL MATCH EXISTING IN COLOR AND TYPE. IF EXISTING PAINT IS LEAD BASED, MATCH PAINT COLOR ONLY.
- CONTRACTOR SHALL PREPARE SURFACE AND APPLY PAINT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. A MINIMUM OF THREE COATS (PRIMER, INTERMEDIATE AND TOP COAT) WITH A DFT 3.5 MILS TOTAL SHALL BE APPLIED. PAINTS SHALL MEET MASTER PAINTERS INSTITUTE (MPI) STANDARDS.
- JOINT SEALANTS SHALL BE IN ACCORDANCE WITH ASTM C 920.
- REMOVAL AND CLEAN-UP OF LEAD-BASED PAINT SHALL BE IN ACCORDANCE WITH OSHA 29 CODE OF FEDERAL REGULATIONS 1926.62
- CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE CITY FOR APPROVAL:
 - COATING PRODUCT DATA
 - MANUFACTURER'S TECHNICAL DATA SHEETS
 - SEALANT PRODUCT DATA
 - COLOR SAMPLES
 - APPLICATOR'S QUALIFICATIONS
 - MANUFACTURER'S APPLICATION INSTRUCTIONS
 - MANUFACTURER'S MIXING INSTRUCTIONS
 - MANUFACTURER'S MATERIAL SAFETY DATA SHEETS
 - OPERATION & MAINTENANCE FOR COATINGS
 - WORKMANSHIP WARRANTY (2 YEAR MINIMUM FOR ALL REPAIRS INCLUDING LABOR, MATERIALS, AND SERVICE)
 - MANUFACTURER'S WARRANTY (5 YEAR MINIMUM PRODUCT WARRANTY FOR PAINT.)
- RESULTS OF PAINT TESTING INCLUDED WITH SPECIFICATIONS.

NOTE:
 ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

Fri, 17 Aug 2007 11:39am F:\6807-03\cadd\Submittals\2007-06-14_A4_Built\4817-14_X02.dwg tvaldez

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 06 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04	R E V I S I O N S		BY	DATE
DRAWN BY: EGW	DATE: 02/04				
CHECKED BY: JDM	DATE: 02/04				
FIELD BOOK No.	PAGE THRU				
BM No.	EL.				
LOCATION:					

MOFFATT & NICHOL
 ENGINEERS
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
GENERAL NOTES & DESIGN CRITERIA
SHEET 1 OF 2

DATE: 06-24-05
 SCALE: NONE
 DRAWING No.: 10175-2
 SHEET No.: **X2**

GENERAL MECHANICAL NOTES

- 1. REFER TO SHEET X5 FOR OVERALL SITE PLAN.
2. ALL WATER MAIN MATERIALS (PIPE, HYDRANTS, VALVES, ETC.) SHALL BE FURNISHED BY THE CONTRACTOR. ALL SUCH MATERIALS SHALL BE NEW, SHALL MEET CITY SPECIFICATION REQUIREMENTS FOR EACH ITEM, AND PRIOR TO INSTALLATION, MUST BE APPROVED IN WRITING BY THE ENGINEER.
3. ALL WORK SHALL COMPLY WITH THE CITY OF ST. PETERSBURG WATER RESOURCES AND ENGINEERING DEPARTMENT REQUIREMENTS AND DESIGN AND CONSTRUCTION STANDARDS, AS WELL AS ALL REQUIREMENTS OF THE STANDARD PLUMBING CODE BY THE SIBC, LATEST EDITION.
4. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE ENGINEER ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF CONSTRUCTION.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER AND/OR "SUNSHINE" 1-800-432-4770 SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY THE ONSHORE POINT OF CONNECTIONS. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE PLANS (DRAWINGS) ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.
6. LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
7. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THEREFORE, THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS PRIOR TO SUBMITTING HIS BID, SO THAT HE MAY DETERMINE THE EXTENT OF DELAYS THAT UTILITY RELOCATIONS AND/OR ADJUSTMENTS MAY HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS SPECIFIED AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY UTILITY ADJUSTMENTS.
10.(c) THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, POWER OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 48 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. BETWEEN THE HOURS OF 9:00 A.M. TO 4:00 P.M., WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 4 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
(b) CONSTRUCTION EQUIPMENT AND MATERIAL MAY BE STORED ONLY IN AREAS DESIGNATED FOR CONTRACTOR'S USE. THIS AREA WILL BE DESIGNATED BY THE CITY AND AS SHOWN ON SHEET X5.
11. THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS FOR APPROVAL BY THE ENGINEER. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE DAILY AND LEGALLY DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL RETRIEVE ANY DEMOLISHED PIPING DROPPED BELOW WATER.
13. HANGERS AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR REVIEW AND APPROVAL. A DIELECTIC ISOLATION SHEET SHALL BE PLACED WHERE DISSIMILAR METALS CONTACT ON THE SUPPORT.
14. CONTRACTOR SHALL COMPLY WITH COAST GUARD REGULATIONS TO PROTECT AND MAINTAIN ALL BOAT TRAFFIC. CONTRACTOR SHALL NOT INTERFERE WITH NORMAL BOAT TRAFFIC.
15. ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE CITY OF ST. PETERSBURG. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.
16. ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, OR THROUGH TESTING, SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
17. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS. CONTRACTOR SHALL PROVIDE OWNER WITH OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
18. DIELECTRIC COUPLINGS SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS.
19. ALL DISTURBED CONCRETE AND PAVING SHALL BE REPLACED TO CURRENT STANDARDS TO MATCH EXISTING TO THE ENGINEER'S ACCEPTANCE. ALL DISTURBED LAWN AREAS SHALL BE RESODDED.
20. CONTRACTOR SHALL PROVIDE TEMPORARY BLOW OFF VALVES AT THE END OF EACH WATER/FIRE LINE.
21. THE CONTRACTOR MAY USE THE HOSE BIBBS AS BACTERIOLOGICAL SAMPLING POINTS.

- 22. ON EXISTING CS FIRE AND POTABLE WATER LINES TO REMAIN, THE CONTRACTOR SHALL RESTORE THE PROTECTIVE WRAPPING THAT IS DISTURBED BY HIS ACTIVITIES. NEW (CITY APPROVED) TAPE SHALL BE COMPATIBLE WITH SUNLIGHT AND SALTWATER AND SHALL ADHERE TO PIPE AND THE EXISTING NEIGHBORING COATING TO PROVIDE A COMPLETE WATER SEAL. CITY APPROVED MARINE EPOXY PAINT, MULTILAYERS, MAY ALSO BE USED IN FULL COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
23. MECHANICAL RESTRAINTS SHALL BE USED ON ALL FITTINGS AND PIPE JOINTS, AND PLACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND CITY OF ST. PETERSBURG REQUIREMENTS. COVERED PVC FIRE SERVICE TEES, CROSSES, AND ELBOWS SHALL BE RESTRAINED USING THRUST BLOCKS IN ACCORDANCE WITH CITY OF ST. PETERSBURG REQUIREMENTS.

FIREWATER SYSTEM

- 1. THE NEW AND EXISTING FIRE HYDRANTS AND THE UNDERGROUND WATER LINES TO THE HYDRANTS ARE PART OF THE PUBLIC SYSTEM.
2. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, PIPE BEDDING, INSTALLATION OF NEW LINE, HYDRANT AND THRUST BLOCK PLACEMENTS, PRESSURE TESTING, DISINFECTION, FLUSHING, WARNING TAPE, BACKFILL, RESURFACING, REACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH COSP STANDARDS AND REGULATIONS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH THE TIE-INS ARE REQUIRED BY COSP, DEPARTMENT OF WATER RESOURCES; AND THE ENGINEERING DEPARTMENT. AUTHORIZED CITY REPRESENTATIVE SHALL WITNESS TIE-IN.
3. EQUIPMENT, SUCH AS VALVES, HYDRANTS, PIPE AND COATINGS, SHALL BE AS NOTED IN THE CITY STANDARDS.
4. FIRE PROTECTION PLANS AND LOCATION OF NEW HYDRANTS SHALL BE APPROVED BY ST. PETERSBURG FIRE PREVENTION DEPARTMENT (SPFPD) VIA ST. PETERSBURG CONSTRUCTION SERVICES AND PERMITTING DEPARTMENT AND THE CITY ENGINEERING DEPARTMENT PRIOR TO THE INSTALLATION OF ANY PIPE. DURING CONSTRUCTION, A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON THE JOB SITE. REFER TO F SERIES SHEETS AND REFERENCE W SERIES SHEETS.
5. AN APPOINTMENT SHALL BE MADE AT THE LEAST MINIMUM REQUIRED (SPECIFIED) WORKING DAYS IN ADVANCE WITH THE CITY ENGINEERING OFFICE FOR ALL INSPECTIONS AND TESTS.
6. COMPLETED WORK SHALL BE SUBJECTED TO A FIRE WATER PRESSURE TEST OF 300 PSI FOR TWO HOURS, DURING WHICH THERE IS TO BE NO REDUCTION IN TEST PRESSURE. IF A REDUCTION SHOULD OCCUR, LEAK(S) SHALL BE LOCATED, REPAIRED AND THE TEST REPEATED. HYDROSTATIC TESTING OF THE POTABLE WATER SYSTEM IS ADDRESSED BELOW. IN ADDITION, ALL NEWLY INSTALLED FIRE SERVICE LINES SHALL PASS HYDROSTATIC AND HYDRODYNAMIC TESTING REQUIREMENTS AS PERFORMED BY THE CITY FIRE MARSHALL.
7. UNLESS OTHERWISE NOTED, ALL PVC FIRE/WATER PIPING SHALL BE SCHEDULE 80, CONTAINING TITANIUM DIOXIDE FOR UV RESISTANCE AND SHALL CONFORM TO ASTM D-1784 AND D-1785 (IPS). THE CONTRACTOR SHALL SUBMIT TO THE CITY, MANUFACTURER'S CERTIFICATE OF CONFORMANCE. PIPE SHALL BE MARKED WITH MANUFACTURER'S IDENTIFICATION.
8. CARBON STEEL PIPE, WHERE NOTED FOR USE IN FIRE HOSE CABINETS, SHALL BE HOT-DIPPED, ZINC-COATED (GALVANIZED) SEAMLESS ASTM A53, SCHEDULE 40 PIPE, OR SEAMLESS ASTM A795. FITTINGS SHALL BE THREADED, FORGED CARBON STEEL PER ASTM A234, ANSI B16.11, AND GALVANIZED. FLANGES SHALL BE ANSI B16.5. PIPING SHALL BE TAPE WRAPPED WITH CITY APPROVED TAPE. PIPE SURFACE PREPARATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. VALVES IN FHC SHALL BE UL LISTED. PROVIDE DIELECTRIC COUPLINGS BETWEEN DISSIMILAR METAL PIPING.
9. FIRE DEPARTMENT INLET CONNECTION (SIAMESE) SHALL CONSIST OF A TWO-WAY 2-1/2" X 2-1/2" X 4" CAST BRASS 90° BODY WITH INDIVIDUAL DROP CLAPPER VALVES AND SHALL BE COMPLETE WITH PLUGS AND CHAINS. HOSE COUPLING THREADS SHALL CONFORM TO NATIONAL STANDARD THREADS (NST) WITH FEMALE SWIVEL CONNECTIONS. THE OVERALL HEIGHT OF THE UNIT SHALL BE 30 TO 36 INCHES, AND A BRASS SLEEVE TO COVER THE STANDPIPE. BRASS ESCUTCHEON AND THE WORD STANDPIPE LETTERED ON THE HEAD SHALL BE INCLUDED. FDC SHALL BE LOCATED WITH A MINIMUM CLEARANCE OF 7'-6" FROM ANY OBSTRUCTION.

- 10. FIRE HOSE CABINETS WITH EXTINGUISHERS SHALL BE SPACED TO PROVIDE PROTECTION TO ANY PORTION OF FLOATS OR FLOATING VESSELS. 100 FOOT HOSE SHALL BE MOUNTED ON A HOSE RACK AND SHALL BE ENCLOSED WITHIN AN APPROVED CABINET. FIRE HOSE CABINETS WITH EXTINGUISHERS SHALL BE LABELED "FIRE HOSE - EMERGENCY USE ONLY". FIRE HOSE CABINETS WITH EXTINGUISHERS SHALL BE SPACED SO THAT ALL PORTIONS OF THE DOCKS SHALL BE WITHIN 130 FT, FROM THE HOSE CABINET. CABINET FOR HOSE RACK UNIT SHALL BE MADE OF TYPE 316 STAINLESS STEEL WITH A MINIMUM THICKNESS OF 16 GAGE. CABINET SHALL BE LABELED "FIRE HOSE" IN 5" BOLD RED LETTERS. SHOP DRAWINGS OR CATALOG DATA FOR ABOVE CABINET AND MOUNTINGS (OR APPROVED EQUAL) SHALL BE SUBMITTED FOR APPROVAL.
11. ONE 10 POUND FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 4A-60B:C SHALL BE PROVIDED AT EACH FIRE HOSE CABINET. FIRE HOSE CABINET SHALL BE OF SUFFICIENT SIZE TO HOUSE FIRE EXTINGUISHER NO. 13-003, OR APPROVED EQUAL.
12. THE SYSTEM SHALL ONLY EMPLOY THE USE OF CITY APPROVED MATERIALS AND DEVICES. PIPING SHALL BE AS NOTED ON THE PLANS OR AS SPECIFIED.
13. PIPING MATERIAL & FIREWATER SYSTEM SHALL BE IN COMPLIANCE WITH 2000 NFPA 14, 1995 NFPA 24, 2000 NFPA 303, 2000 NFPA 307, AND SPFPD REQUIREMENTS. ALL MATERIALS SHALL BE UL LISTED.
14. THE PIER STANDPIPE SYSTEM IS A MANUAL-WET SYSTEM, PER NFPA 14, 3-2. THE STANDPIPE SYSTEM SHALL BE IN COMPLIANCE WITH 2000 NFPA 14.
15. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
16. NEW AND EXISTING FDC LOCATIONS SHALL HAVE PERMANENTLY AFFIXED SIGNS NOTING PRESSURE LIMITATION AND TO SLOWLY INCREASE AND DECREASE PRESSURE AT THE CONNECTION. FINAL SIGNAGE SHALL BE APPROVED BY THE SPFPD. EXISTING AND NEW FDC LOCATIONS SHALL HAVE BRUSH CLEARED FROM AROUND UNIT AND EXISTING FDC LOCATIONS SHALL HAVE SHRUBBERY PRUNED FOR ACCESSIBILITY.
17. VALVE BOXES SHALL BE CAST IRON OR PRECAST CONCRETE WITH CAST IRON COVERS AND PER CITY STANDARDS AND SHALL BE COATED WITH TWO (2) COATS OF COAL TAR EPOXY (9 MIL DFT) BY KOP-COAT BITUMASTIC 300-M OR CITY APPROVED EQUAL.
18. BURIED PIPING SHALL COMPLY WITH COSP STANDARDS.

- 19. MAXIMUM DISTANCE OF ABOVEGROUND PIPE BETWEEN PIPE SUPPORTS SHALL NOT EXCEED THE FOLLOWING UON.

Table with 4 columns: NOMINAL PIPE SIZE, CU PIPE SPAN, FT, CS PIPE SPAN, FT. Rows include 3", 2 1/2", 2", 1 1/2" pipe sizes and corresponding spans.

FOR PVC SPAN LENGTHS, REFER TO POTABLE WATER SYSTEM NOTE 7.

POTABLE WATER SYSTEM

- 1. NON-BURIED PIPING FOR POTABLE WATER SHALL BE COPPER TUBING TYPE K WITH WROUGHT COPPER OR CAST BRASS FITTINGS. POTABLE WATER PIPING UNDER AND INSIDE THE REQUIRED DOCKS MAY ALSO BE PVC, PER FIREWATER SYSTEM NOTE 7. SOCKET TYPE FITTINGS, ASTM D-2455. BACKFLOW PREVENTER AND REDUCED PRESSURE PRINCIPLE EQUIPMENT SHALL HAVE PRIOR APPROVAL BY THE CITY.
2. THE POTABLE WATER SYSTEM SHALL BE PRESSURE TESTED DOWNSTREAM OF THE POC. APPLY AND MAINTAIN 100 PSIG TEST PRESSURE FOR 4 HOURS, DURING WHICH TIME THERE WILL BE NO REDUCTION IN TEST PRESSURE. SHOULD A REDUCTION OCCUR, LEAKS SHALL BE LOCATED, REPAIRED AND THE TEST REPEATED. THE POTABLE WATER SYSTEM FROM THE POC SHALL BE STERILIZED PRIOR TO USE, AND ALL IN ACCORDANCE WITH ANSI/AWWA C651. A SOLUTION OF CHLORINE (TABLETS) AND WATER CONTAINING NOT LESS THAN 50 P.P.M. OF FREE CHLORINE SHALL BE INJECTED INTO THE SYSTEM IN SUCH A MANNER AS TO ENSURE THE ENTIRE SYSTEM IS COMPLETELY FILLED WITH THE SOLUTION. AFTER INJECTION, THE SYSTEM SHALL BE ISOLATED AND THE SOLUTION HELD FOR A PERIOD OF 24 HOURS. THE SYSTEM SHALL THEN BE FLUSHED WITH FRESH WATER UNTIL THE CHLORINE LEVEL IS WITHIN ACCEPTABLE LIMITS AS DETERMINED BY THE CITY. THE CONTRACTOR SHALL ENSURE THE WATER IN THE SYSTEM IS NOT USED FOR HUMAN CONSUMPTION DURING THE STERILIZATION PROCESS AND THAT STERILIZATION SOLUTION IS DISPOSED OF IN ACCORDANCE WITH LOCAL REQUIREMENTS.
3. PIPES, VALVES AND FITTING MATERIALS SHALL BE COMPATIBLE WITH POTABLE WATER AND SUITABLE FOR 24 HOUR CONTACT WITH CHLORINE STERILIZATION SOLUTION.
4. ALL WATER SERVICE (PW AND FW) CONSTRUCTION MUST BE DONE BY A LICENSED MUNICIPAL UTILITY CONTRACTOR APPROVED BY THE CITY.
5. WHERE BURIED WATER PIPING CROSSES A SANITARY SEWER LINE, IF ENCOUNTERED, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER LINE. THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
6. BURIED PIPING SHALL CONFORM WITH COSP STANDARDS.
7. MAXIMUM DISTANCE OF ABOVEGROUND PIPE BETWEEN PIPE SUPPORTS SHALL NOT EXCEED THE FOLLOWING UON.

Table with 2 columns: NOMINAL PVC PIPE SIZE, PIPE SPAN, FT. Rows include 3", 2 1/2", 2", 1 1/2", 1 1/4", 1", 3/4" pipe sizes and corresponding spans.

ELECTRICAL

- 1. ALL EXISTING CONDUITS NOT APPROVED TO BE REUSED IN REMODELED AREA SHALL BE REMOVED AND BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
2. ANY EXISTING ELECTRICAL OR MECHANICAL ITEMS TO REMAIN THAT HAVE TO BE REMOVED SHALL BE RECONDITIONED AND REINSTALLED AS REQUIRED.
3. ALL EXISTING EQUIPMENT TO BE REMOVED, TEMPORARILY STORED, AND REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED BY THE CONTRACTOR, AS REQUIRED.
4. THESE DRAWINGS SHOW APPROXIMATE LOCATION OF EXISTING EQUIPMENT AND DO NOT NECESSARILY INDICATE THE COMPLETE EXISTING INSTALLATION. EXACT LOCATION SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK.
6. ALL POWER INTERRUPTIONS 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 CONDITIONS, EXISTING FACILITIES AND ALL BUILDING STRUCTURES BEFORE SUBMITTING PROPOSAL. ANY VARIATIONS OF ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED BY THIS CONTRACTOR TO AVOID CONFLICTS WITH OTHER TRADES.
9. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH THE STANDARD BUILDING CODE, AND ALL OTHER CODES OR LOCAL AUTHORITIES HAVING JURISDICTION.

COMMUNICATION

- 1. ALL EXISTING TELEPHONE AND CATV TERMINAL CABINETS REMOVED FROM DECK SHALL BE REINSTALLED IN-KIND.
2. THE CONTRACTOR SHALL REPLACE ALL REMOVED TELEPHONE AND CATV CONDUITS IN-KIND. THE TELEPHONE AND CATV UTILITIES SHALL INSTALL CABLE AND MAKE ALL CONNECTIONS.
3. THE CONTRACTOR SHALL CONTACT THE CATV AND TELEPHONE UTILITY COMPANY BEFORE STARTING DEMOLITION OF DOCKS. CLOSE COORDINATION BETWEEN CATV AND TELEPHONE COMPANY MUST BE MAINTAINED DURING DEMOLITION AND RECONNECTION OF CABLE.
4. ALL EXISTING EQUIPMENT TO BE REMOVED AND REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED BY THE CONTRACTOR AS REQUIRED.
5. ALL TELEPHONE AND CATV CONNECTORS AND FITTINGS FOR PROPOSED AND/OR RECONDITIONED EQUIPMENT SHALL BE MARINE GRADE.

NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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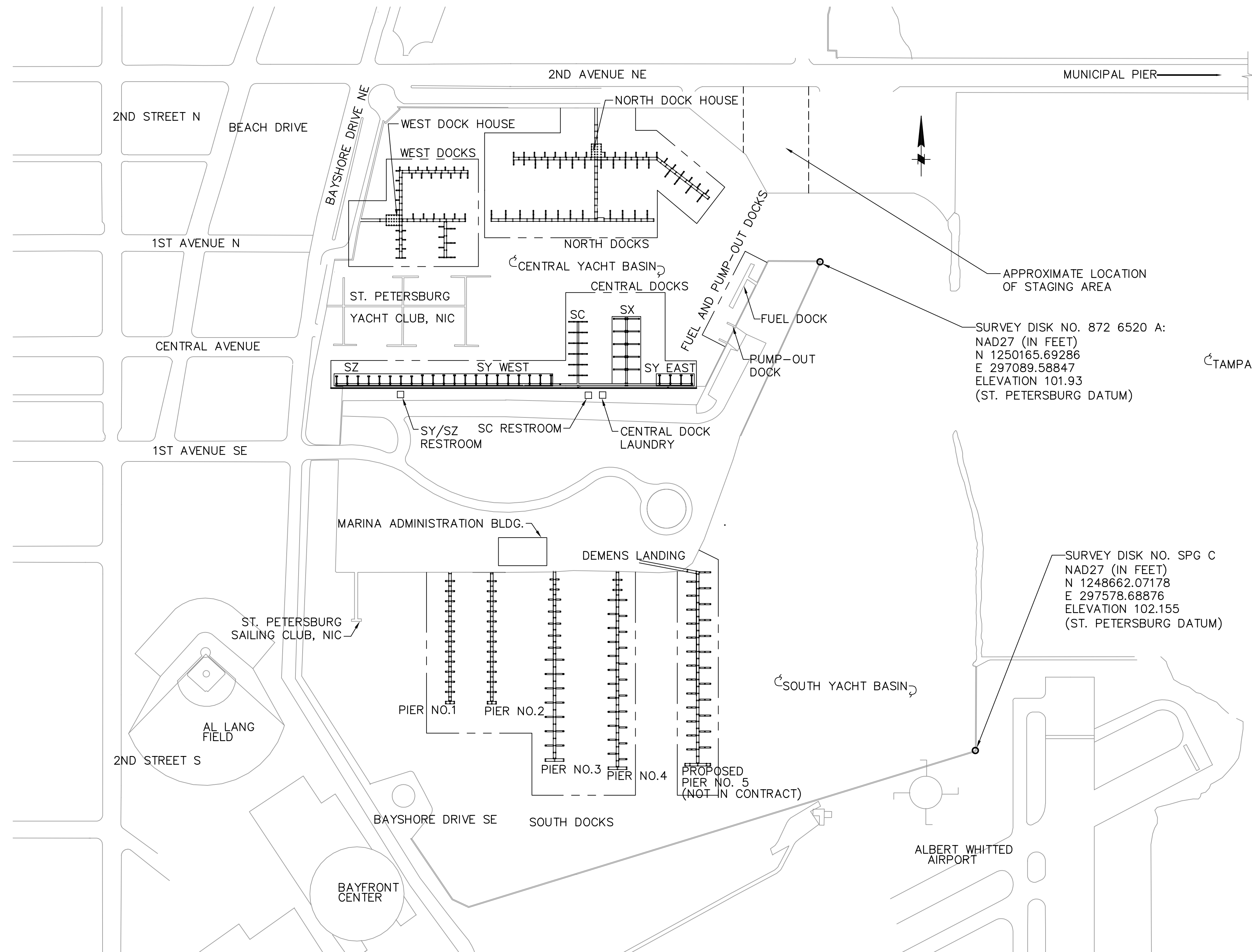
MOFFATT & NICHOL ENGINEERS logo and address: 1509 W. SWANN AVENUE, SUITE 225 TAMPA, FLORIDA 33606

Stamp with logo and text: ENGINEERING, STORMWATER & TRAFFIC OPERATIONS DEPARTMENT CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS STRUCTURAL REHABILITATION PROJECT NO. 01074-117 GENERAL NOTES & DESIGN CRITERIA SHEET 2 OF 2

Table with 2 columns: DATE, SCALE, DRAWING No., SHEET No. Values: 06-24-05, NONE, 10175-3, X3





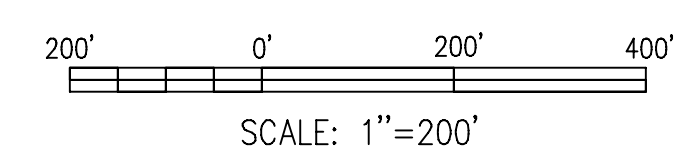
OVERALL MARINA SITE PLAN 1
 1"=200' X5 X5

- FOR DEMOLITION PLAN CENTRAL DOCKS, SEE 1X5 D1 , 1X5 D2
- FOR DEMOLITION PLAN WEST DOCKS, SEE 1X5 D3
- FOR DEMOLITION PLAN NORTH DOCKS, SEE 1X5 D4 , 1X5 D5
- FOR DEMOLITION PLAN FUEL AND PUMP-OUT DOCKS, SEE 1X5 D6 , 2X5 D6
- FOR STRUCTURAL PLAN SOUTH DOCKS, SEE 1X5 S1 , 1X5 S2
- FOR STRUCTURAL PLAN PIER NO. 5, SEE 1X5 S3 **(NIC)**
- FOR STRUCTURAL PLAN CENTRAL DOCKS, SEE 1X5 S4 , 1X5 S5
- FOR STRUCTURAL PLAN WEST DOCKS, SEE 1X5 S6
- FOR STRUCTURAL PLAN NORTH DOCKS, SEE 1X5 S7 , 1X5 S8
- FOR STRUCTURAL PLAN FUEL AND PUMP-OUT DOCK, SEE 1X5 S9 , 2X5 S9
- FOR FIREWATER PLAN SOUTH DOCKS, SEE 1X5 F1 , 1X5 F2
- FOR FIREWATER PLAN PIER NO. 5, SEE 1X5 F3 **(NIC)**
- FOR FIREWATER PLAN CENTRAL DOCKS, SEE 1X5 F4 , 1X5 F5
- FOR FIREWATER PLAN WEST DOCKS, SEE 1X5 F6
- FOR FIREWATER PLAN NORTH DOCKS, SEE 1X5 F7 , 1X5 F8
- FOR FIREWATER PLAN-ALTERNATE 1 CENTRAL DOCKS, SEE 1X5 F9 , 1X5 F10
- FOR FIREWATER PLAN-ALTERNATE 1 WEST DOCKS, SEE 1X5 F11
- FOR FIREWATER PLAN-ALTERNATE 1 NORTH DOCKS, SEE 1X5 F12 , 1X5 F13
- FOR POTABLE WATER PLAN PIER NO. 5, SEE 1X5 W1 **(NIC)**
- FOR POTABLE WATER WEST DOCKS, SEE 1X5 W2
- FOR POTABLE WATER PLAN NORTH DOCKS, SEE 1X5 W3 , 1X5 W4
- FOR POTABLE WATER FUEL DOCK, SEE 1X5 W5
- FOR ELECTRICAL PLAN PIER NO. 5, SEE 1X5 E5 **(NIC)**
- FOR ELECTRICAL PLAN WEST DOCKS, SEE 1X5 E2
- FOR FUEL DOCK PLAN, SEE 1X5 H2
- FOR FUEL TANKS DEMOLITION PLAN, SEE 1X5 H3
- FOR FUEL TANKS PLAN, SEE 1X5 H4
- FOR FUEL TANKS ELECTRICAL PLAN, SEE 1X5 E14

APPROXIMATE LOCATION OF STAGING AREA

SURVEY DISK NO. 872 6520 A:
 NAD27 (IN FEET)
 N 1250165.69286
 E 297089.58847
 ELEVATION 101.93
 (ST. PETERSBURG DATUM)

SURVEY DISK NO. SPG C
 NAD27 (IN FEET)
 N 1248662.07178
 E 297578.68876
 ELEVATION 102.155
 (ST. PETERSBURG DATUM)



NOTE:
 ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
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 ISSUED 06 AUGUST 2007

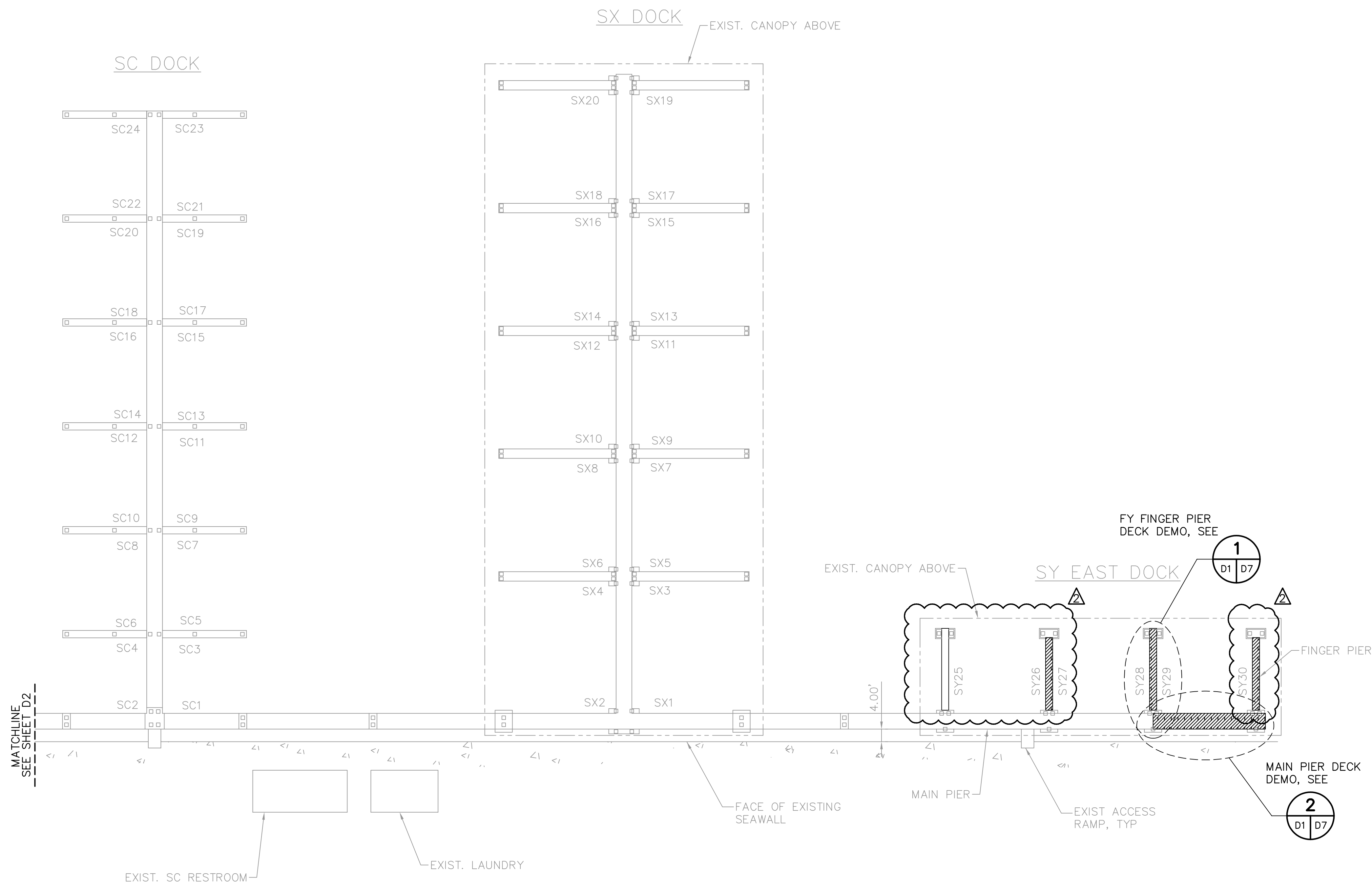
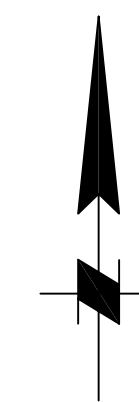
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CHECKED BY: JDM	DATE: 02/04			
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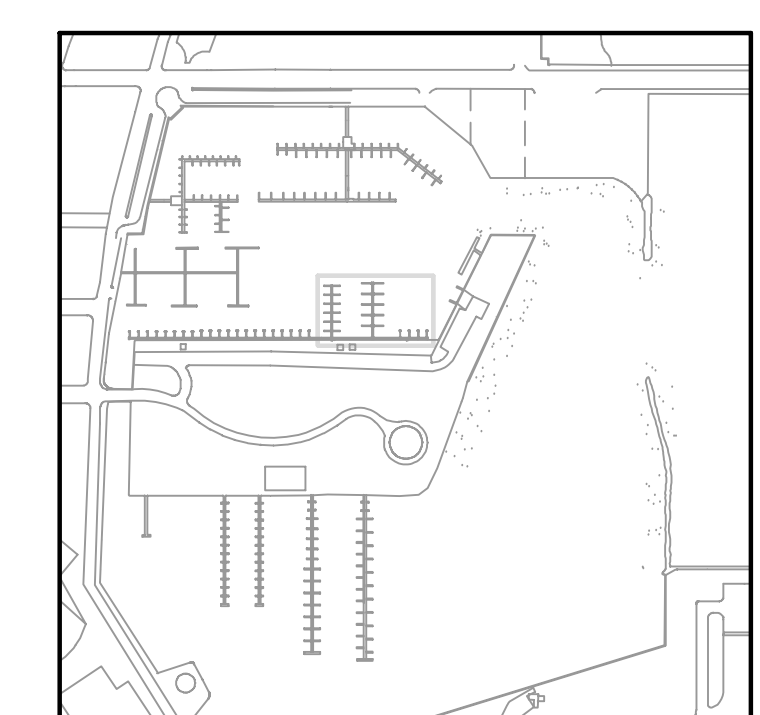
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 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
OVERALL MARINA SITE PLAN

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-5
 SHEET No.: **X5**



LEGEND
 Hatched area DENOTES AREA OF DEMOLITION



DEMOLITION PLAN—CENTRAL DOCKS (1)
 1"=20' (X5 D1)

0 10 20 40 60
 SCALE: 1"=20'

NOTE:
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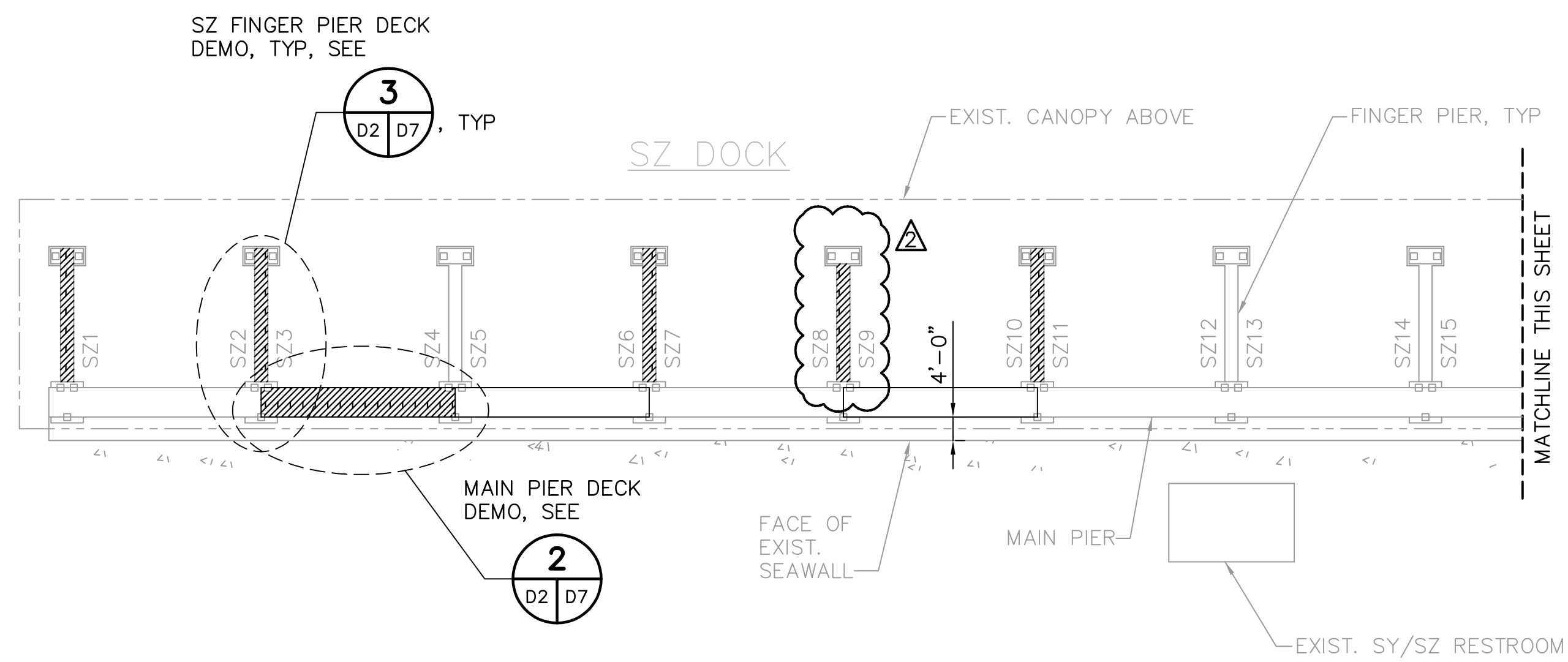
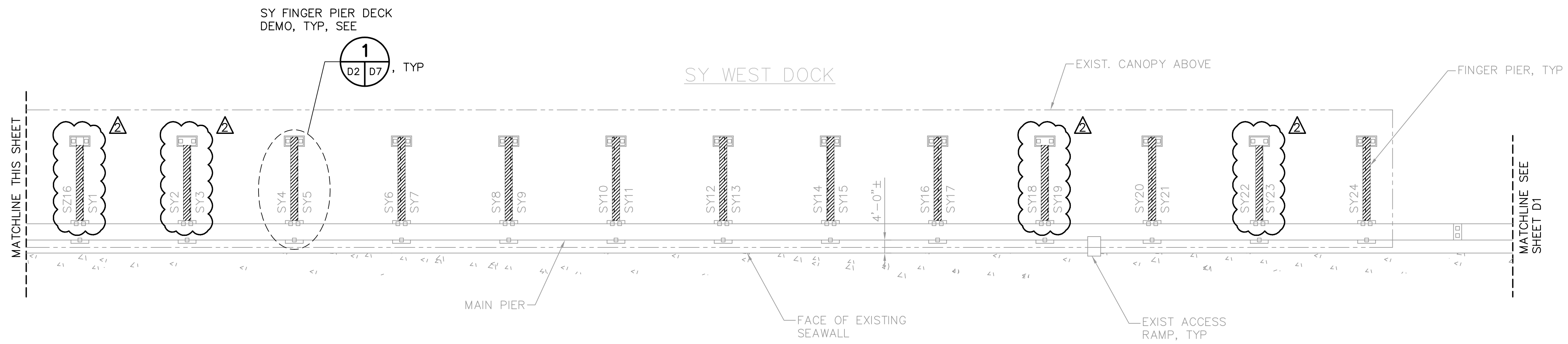
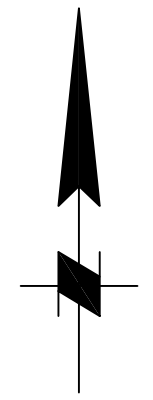
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 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION PLAN - CENTRAL DOCKS
 SHEET 1 OF 2

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-6
 SHEET No.: D1

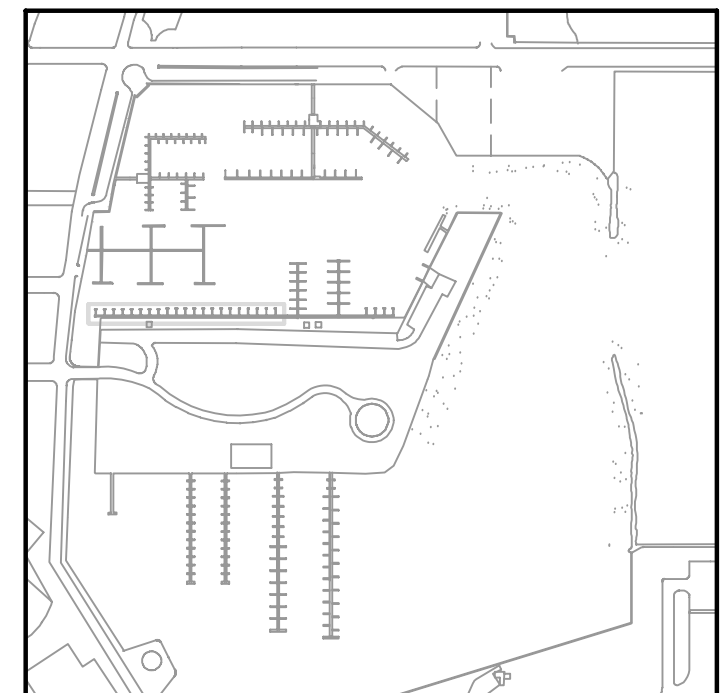
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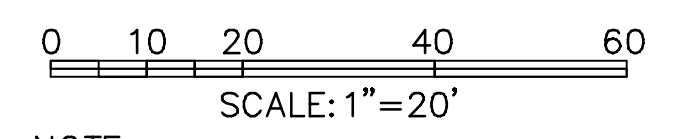


DEMOLITION PLAN – CENTRAL DOCKS 1
1"=20' X5 D2

LEGEND
 DENOTES AREA OF DEMOLITION



KEY PLAN



NOTE:
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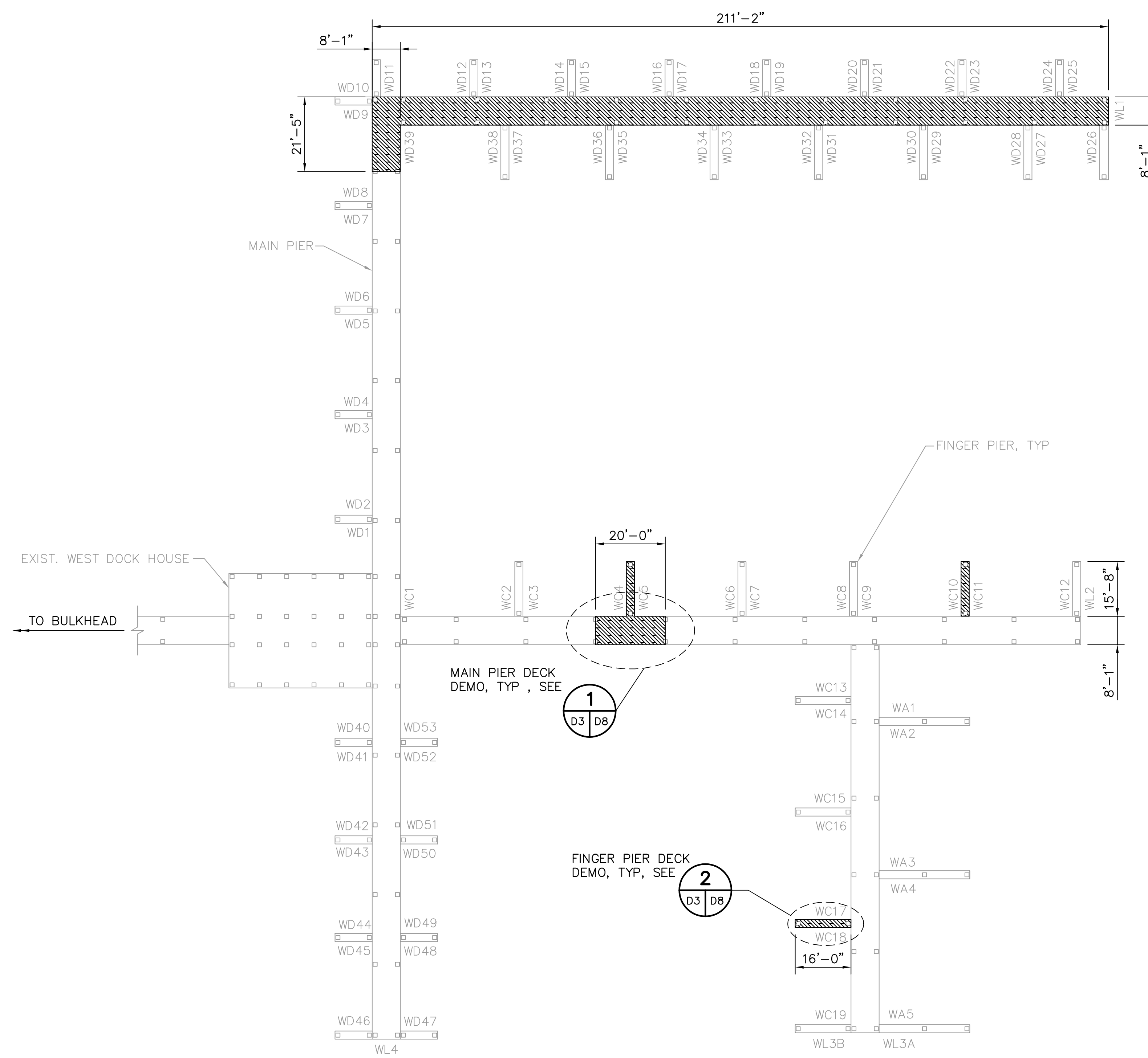
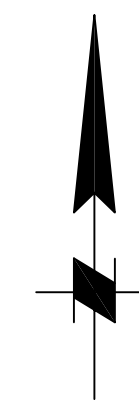
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION PLAN – CENTRAL DOCKS
 SHEET 2 OF 2

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-7
 SHEET No.: **D2**

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TO BULKHEAD

MAIN PIER

FINGER PIER, TYP

MAIN PIER DECK DEMO, TYP, SEE 1

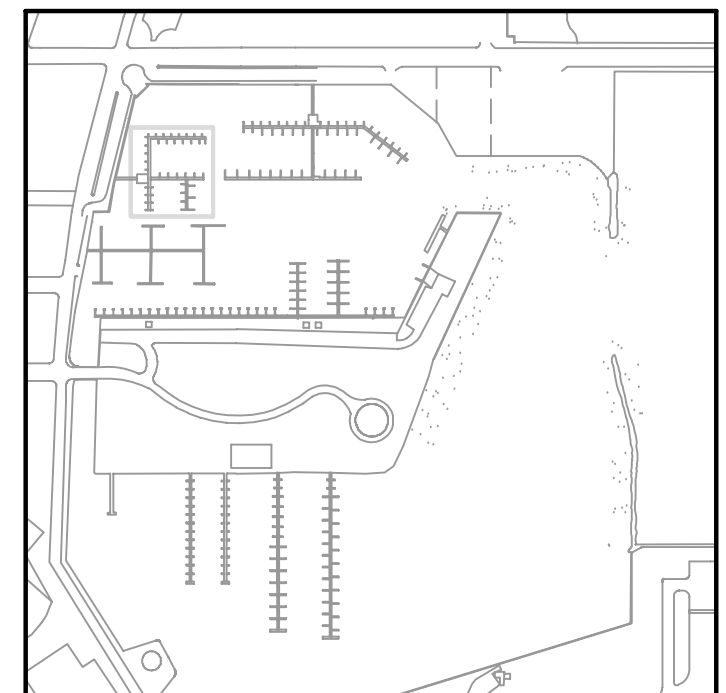
D3 D8

FINGER PIER DECK DEMO, TYP, SEE 2

D3 D8

LEGEND
 DENOTES AREA OF DEMOLITION

DEMOLITION PLAN – WEST DOCKS 1
 1"=20'
 X5 D3



KEY PLAN

0 10 20 40 60
 SCALE: 1"=20'

NOTE:
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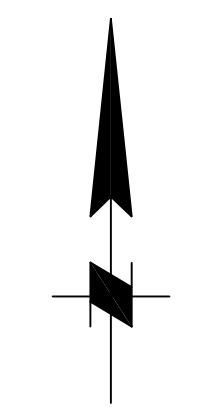
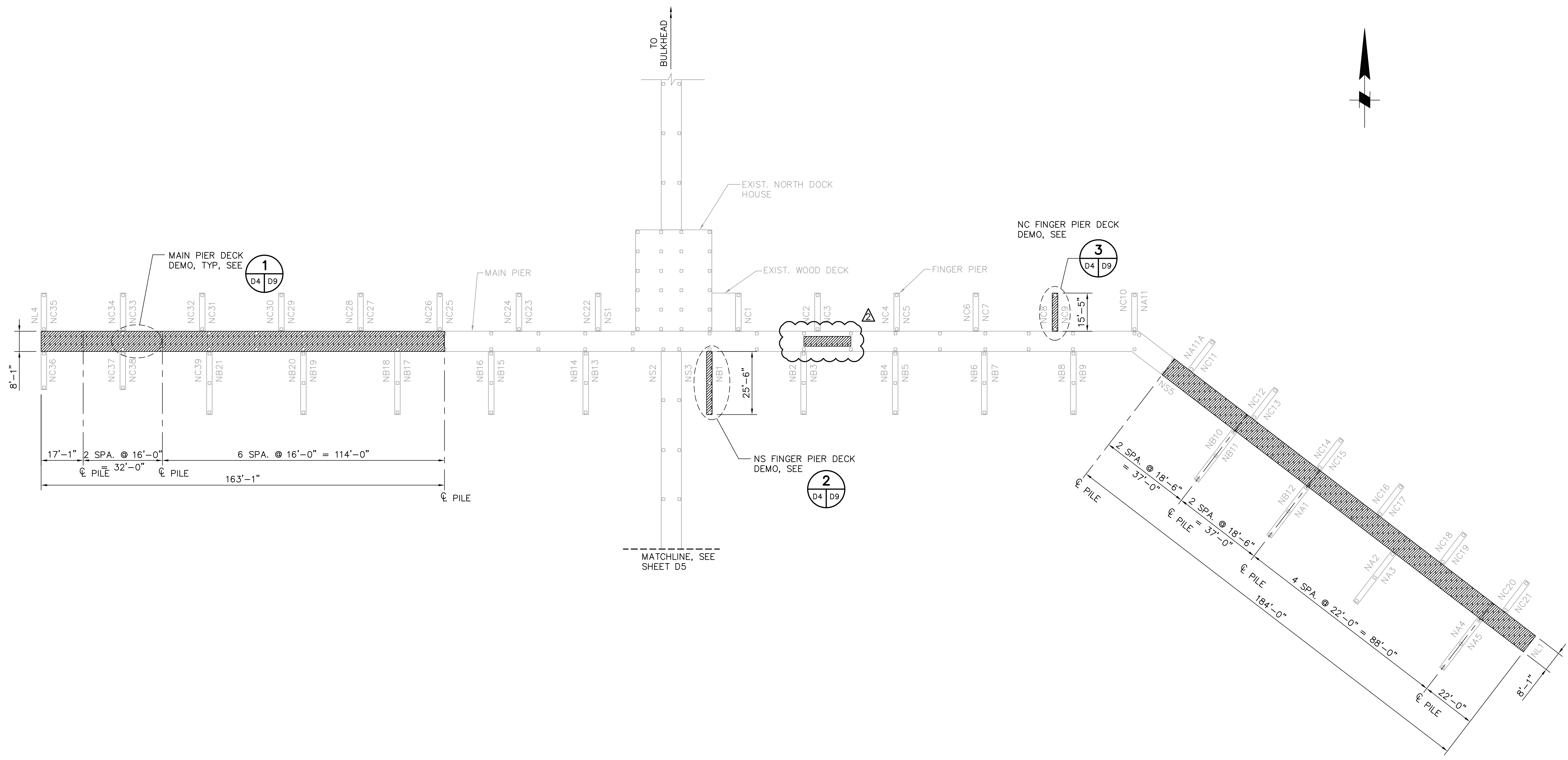
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MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION PLAN
WEST DOCKS

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-8
 SHEET No.: **D3**

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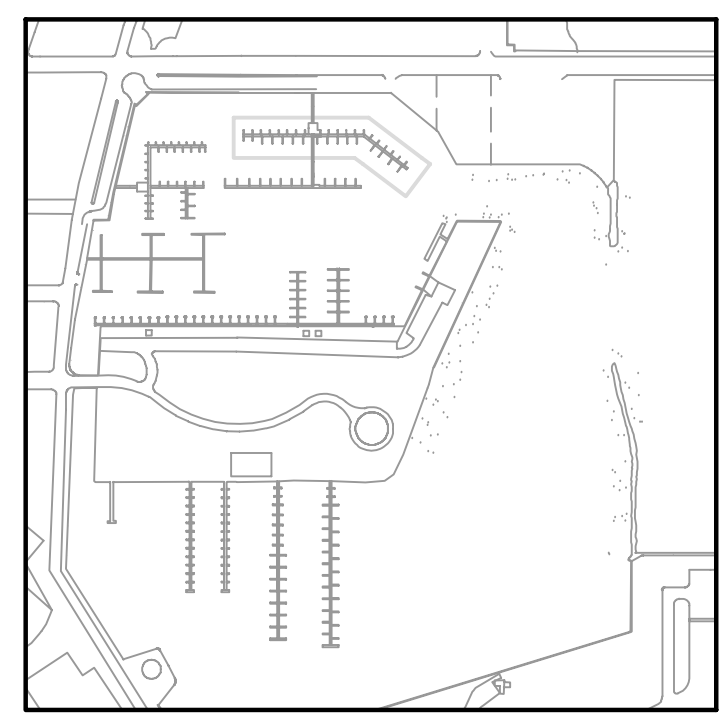
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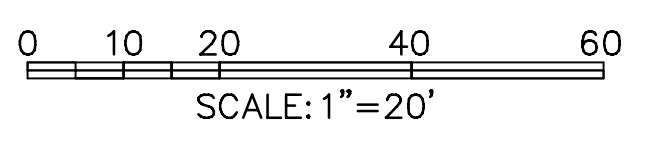
DEMOLITION PLAN – NORTH DOCKS 1
X5 | D4

1"=20'

LEGEND
 DENOTES AREA OF DEMOLITION



KEY PLAN



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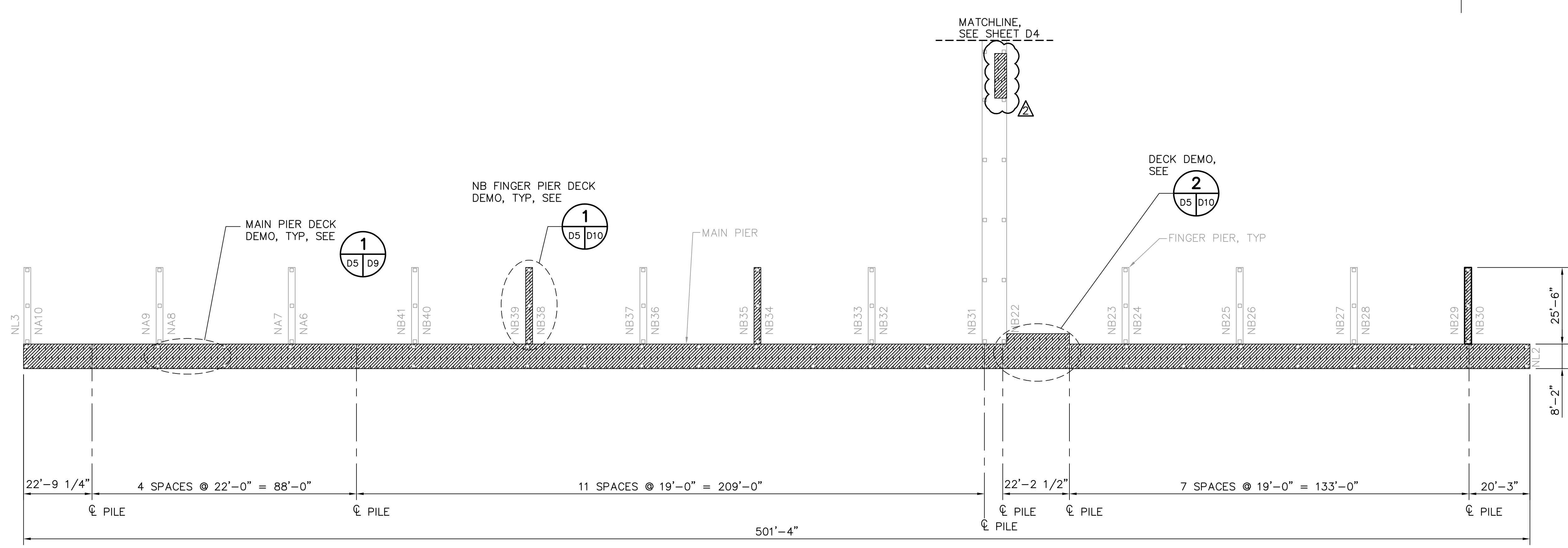
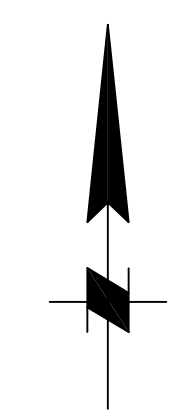
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 CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION PLAN – NORTH DOCKS
 SHEET 1 OF 2

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-9
SHEET No.:	D4

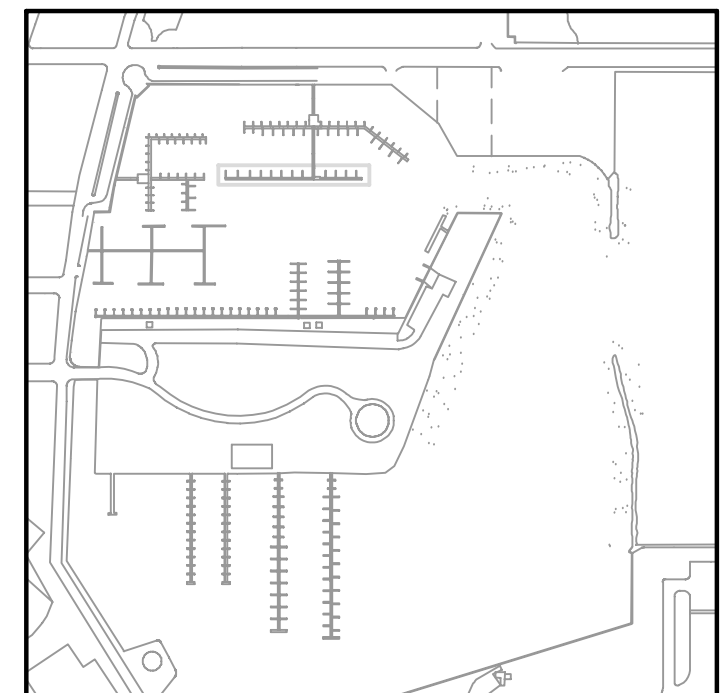
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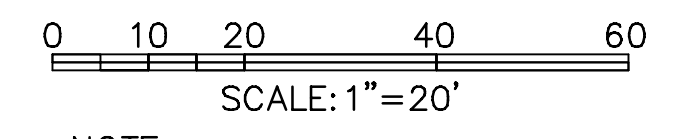


DEMOLITION PLAN – NORTH DOCKS 1
 1"=20' X5 D5

LEGEND
 DENOTES AREA OF DEMOLITION



KEY PLAN



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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 08 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04		
DRAWN BY: EGW	DATE: 02/04		
CHECKED BY: JDM	DATE: 02/04		
FIELD BOOK No.	PAGE	THRU	EL.
BM No.			
LOCATION:			

REVISIONS	BY	DATE
RECORD DRAWINGS	TV	07.27.07

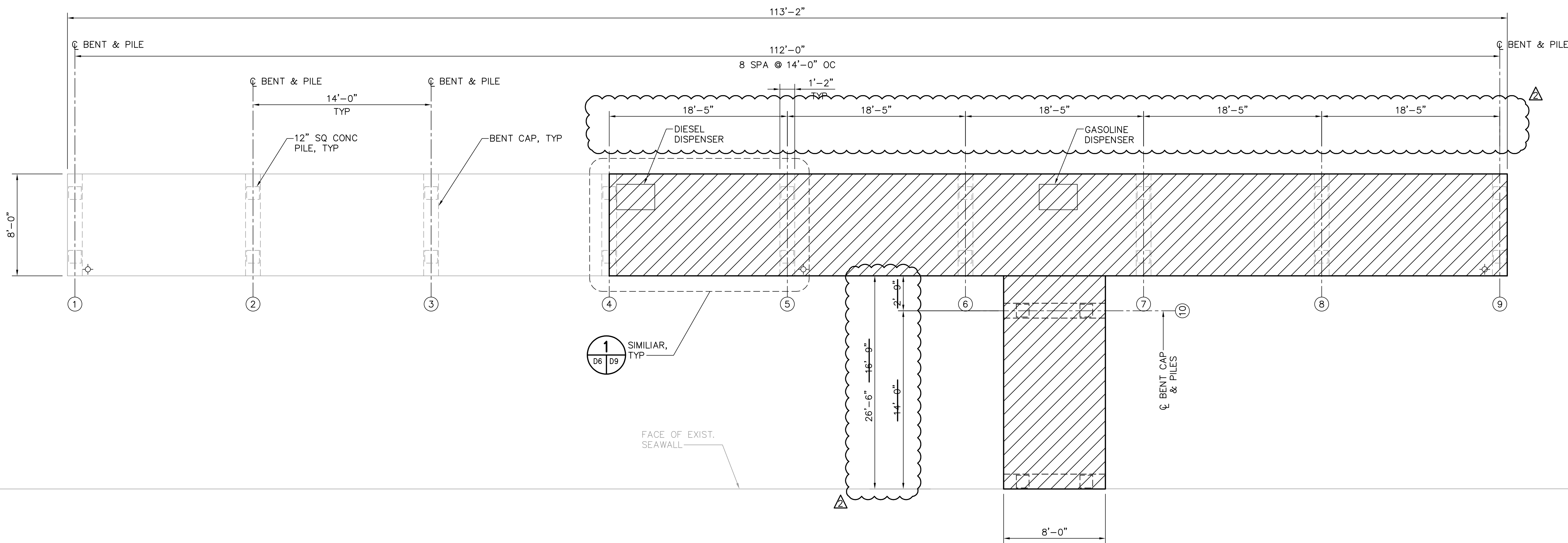
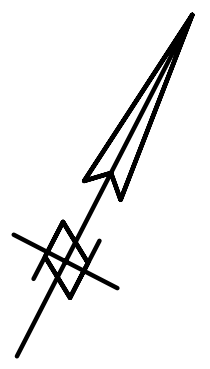
MOFFATT & NICHOL
 ENGINEERS
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-0004877

APPROVED BY:
 ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG

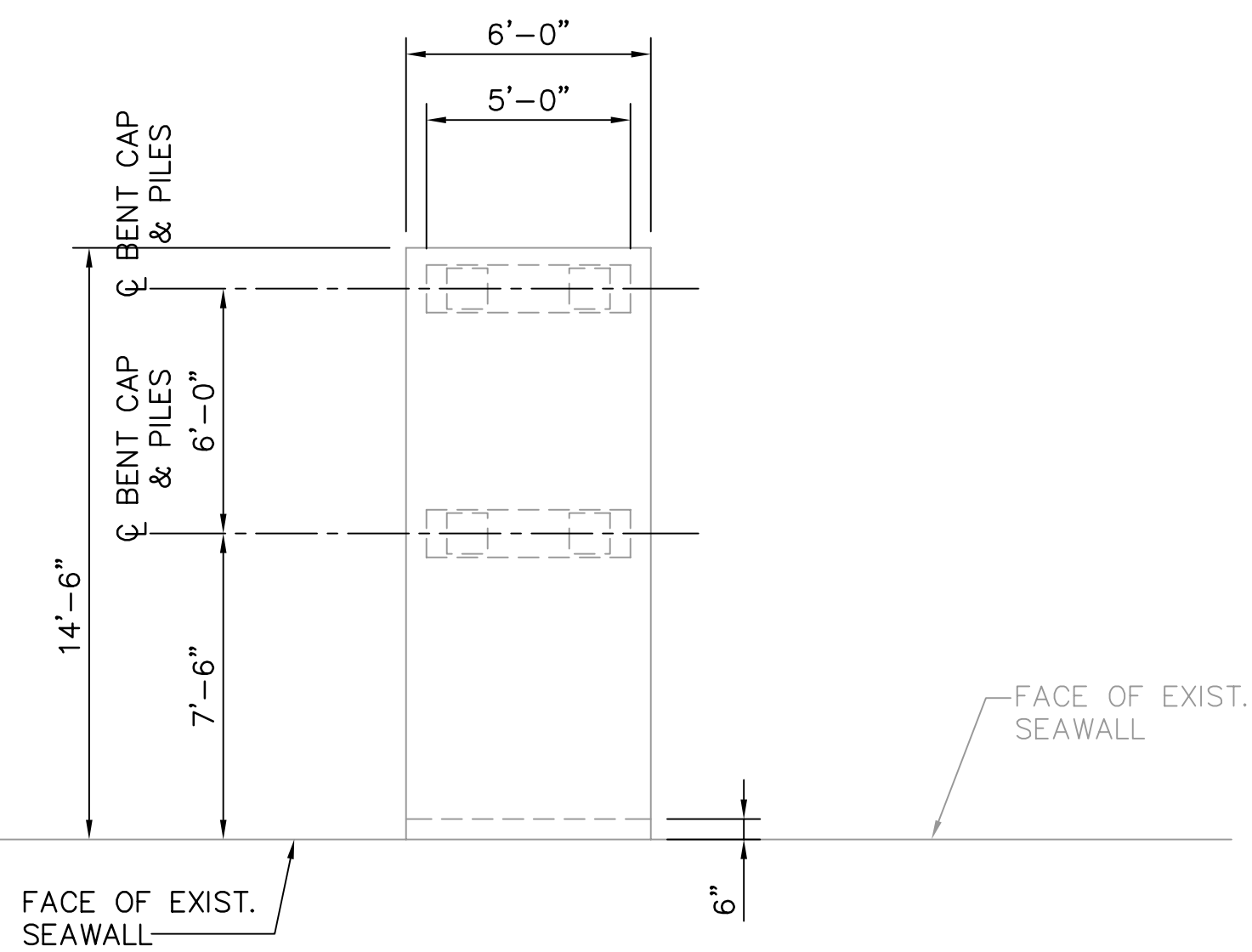
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION PLAN – NORTH DOCKS
 SHEET 2 OF 2

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-10
SHEET No.:	D5

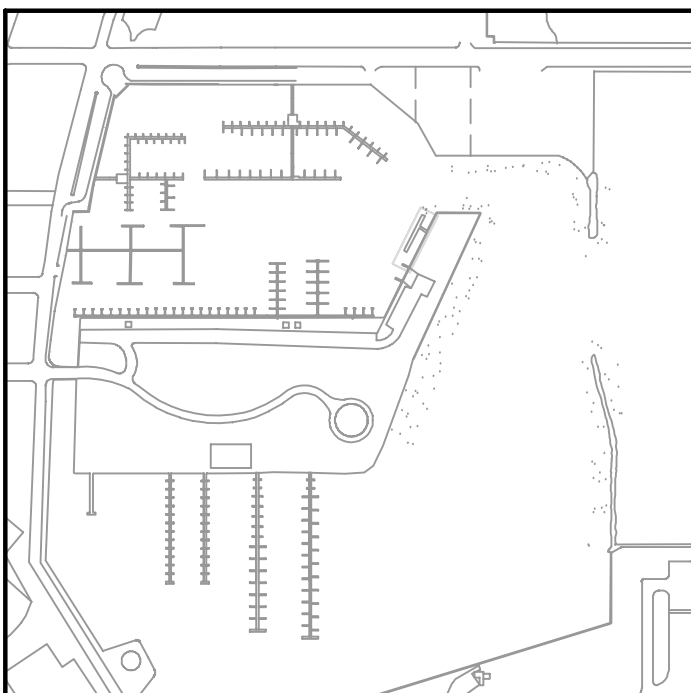
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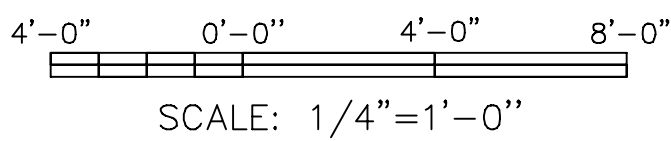
DEMOLITION PLAN - FUEL DOCK (1)
1/4"=1'-0" (X5 | D6)



DEMOLITION PLAN - PUMPOUT DOCK (2)
1/4"=1'-0" (X5 | D6)



KEY PLAN



LEGEND
[Hatched Box] DENOTES AREA OF DEMOLITION

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JAM
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CHECKED BY: JDM
FIELD BOOK No.
BM No.
LOCATION:

DATE: 05/04
DATE: 05/04
DATE: 05/04
PAGE THRU
EL.

REVISIONS	BY	DATE
RECORD DRAWINGS	TV	07.27.07

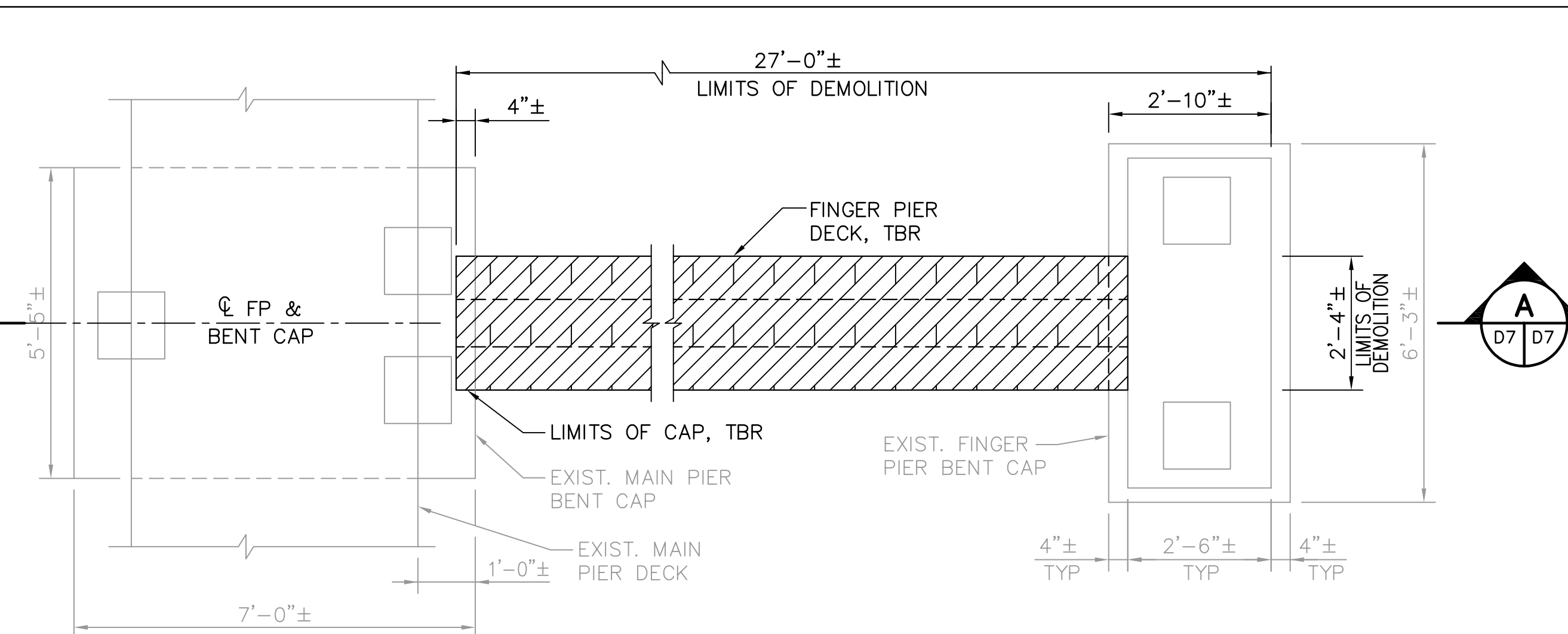
MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
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LIC: EB-0004877

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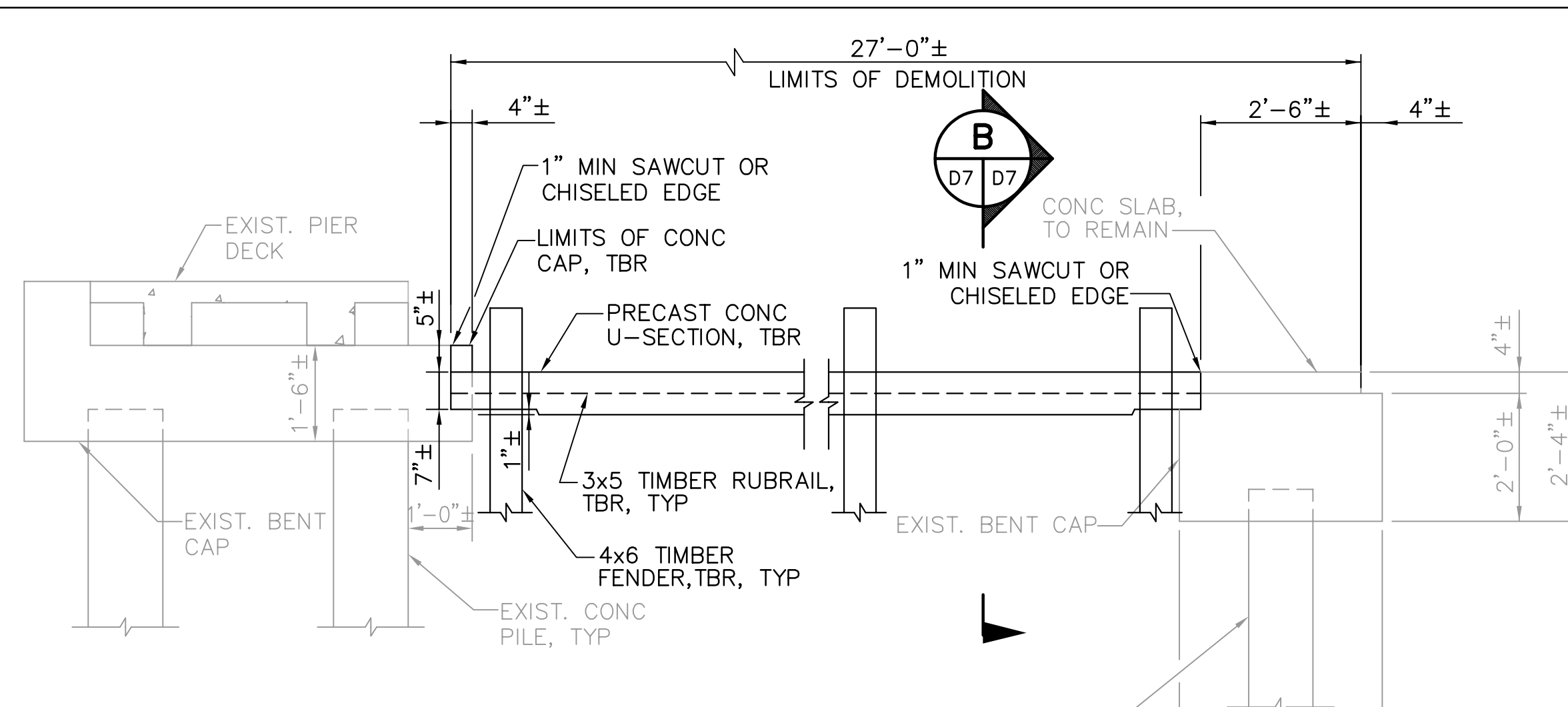
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION PLAN
FUEL & PUMP-OUT DOCKS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-11
SHEET No.: **D6**

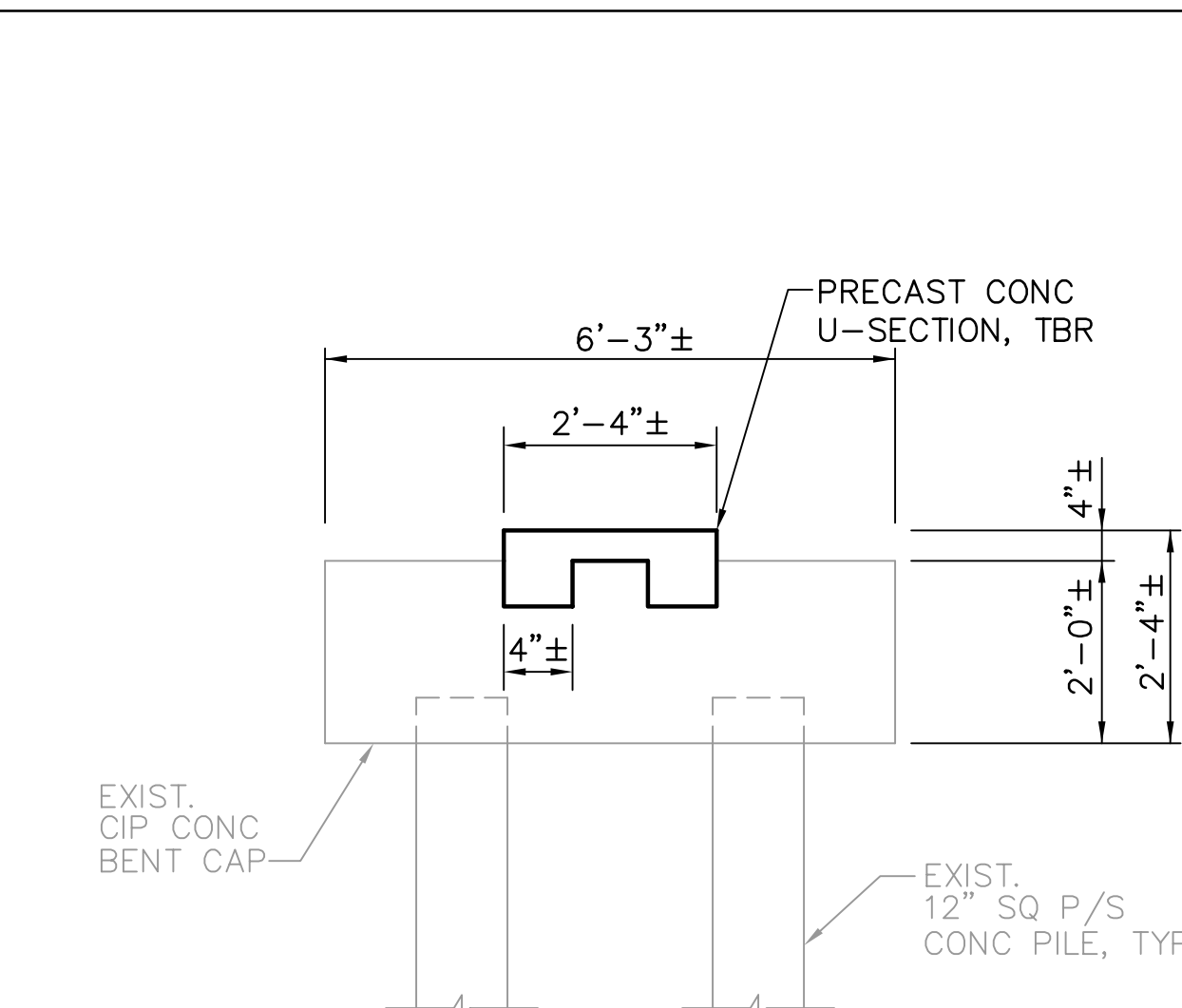
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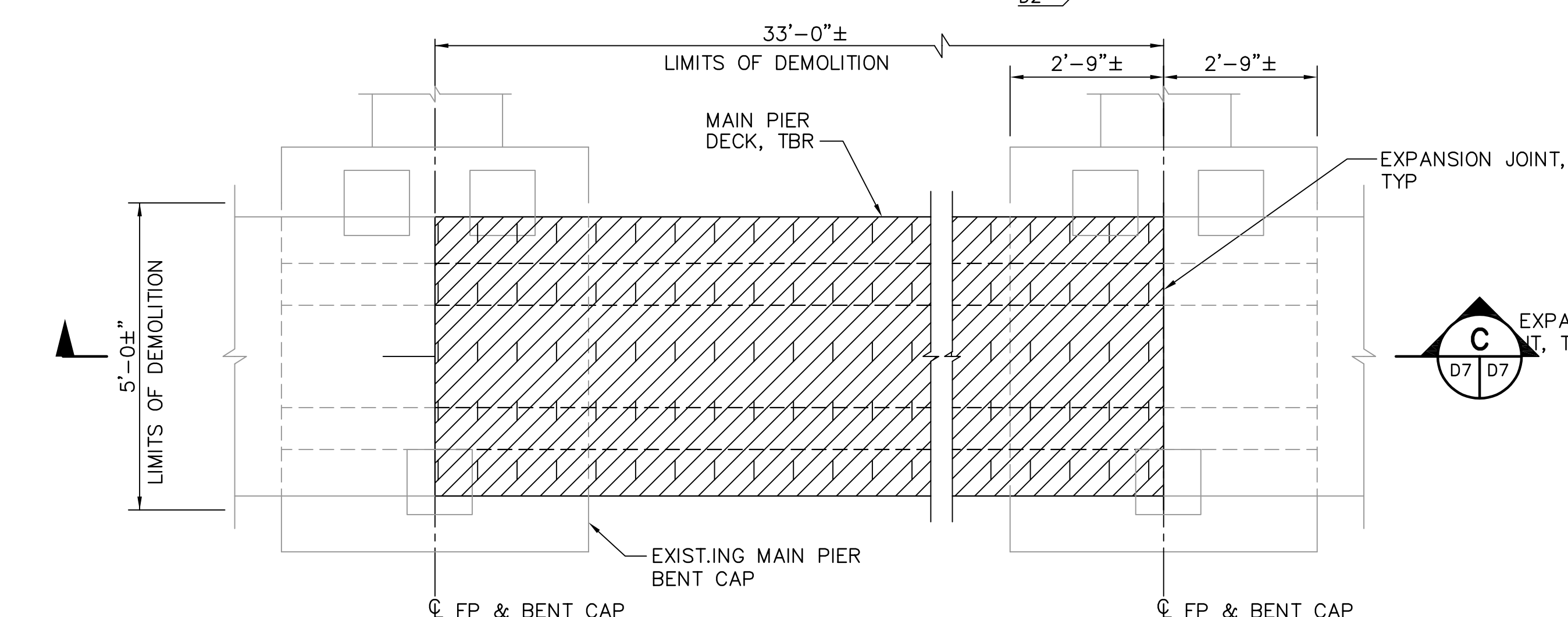
SY FINGER PIER DEMOLITION DETAIL 1
 1/2"=1'-0"
 D1 D7



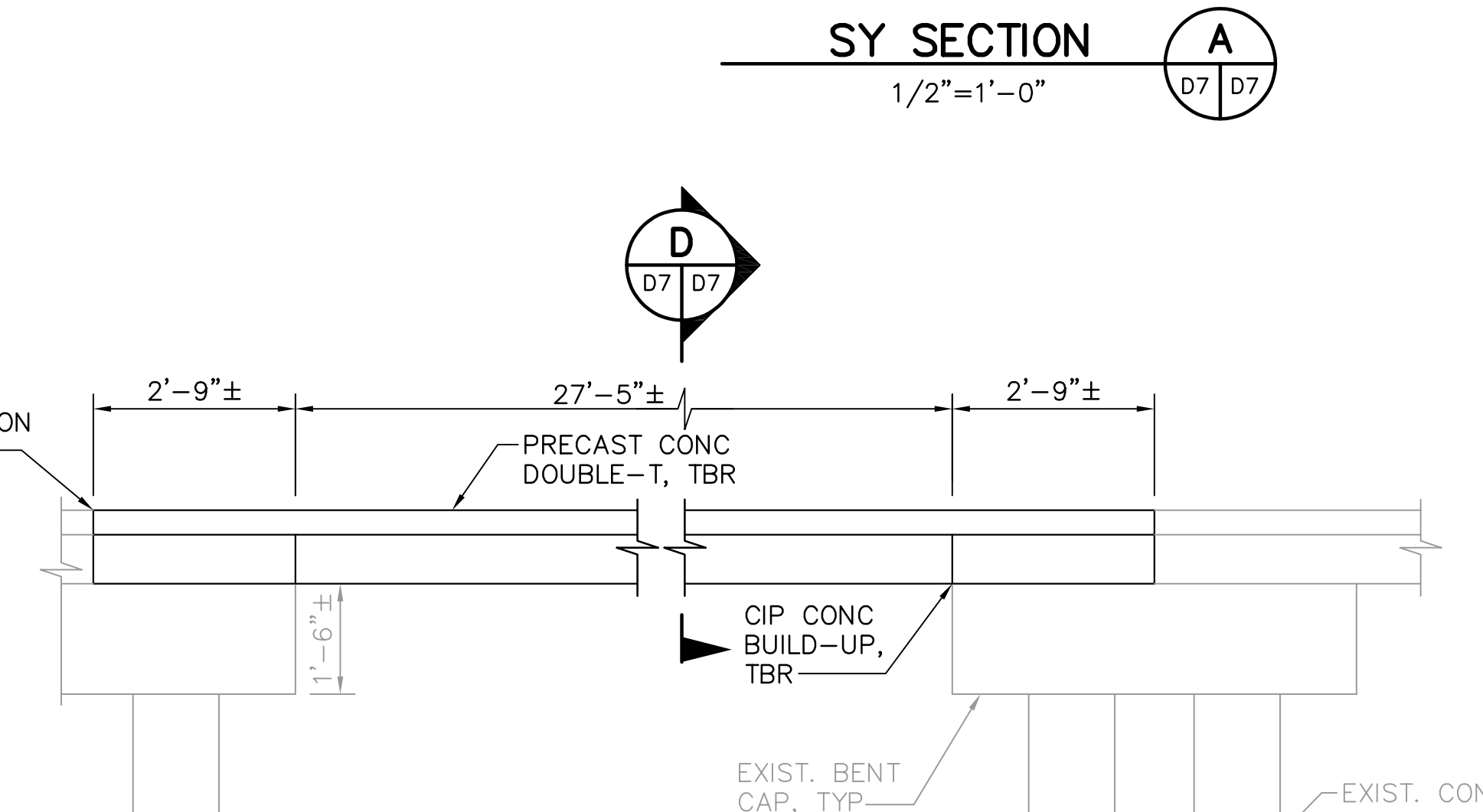
SY SECTION A
 1/2"=1'-0"
 D7 D7



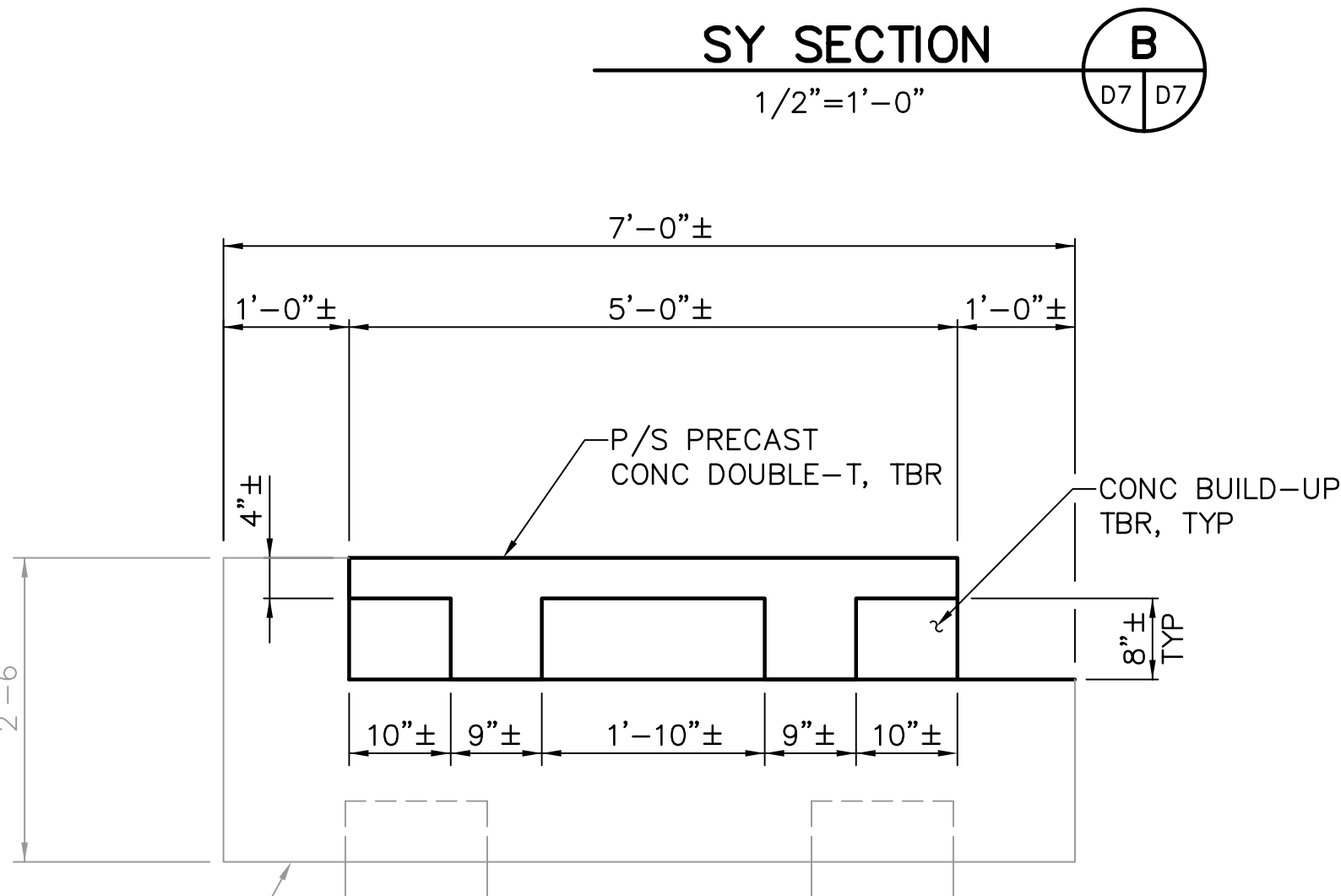
SY SECTION B
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 D7 D7



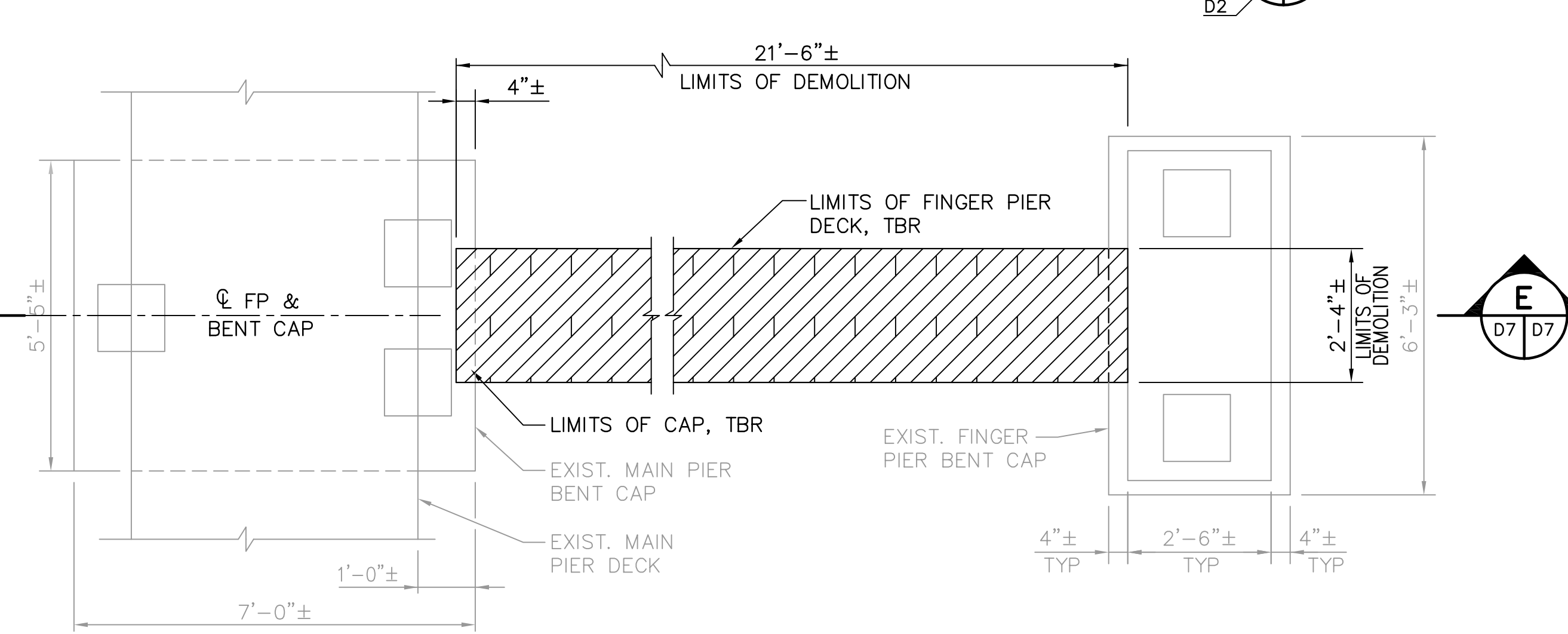
CENTRAL DOCKS MAIN PIER DEMOLITION DETAIL 2
 1/2"=1'-0"
 D1 D7



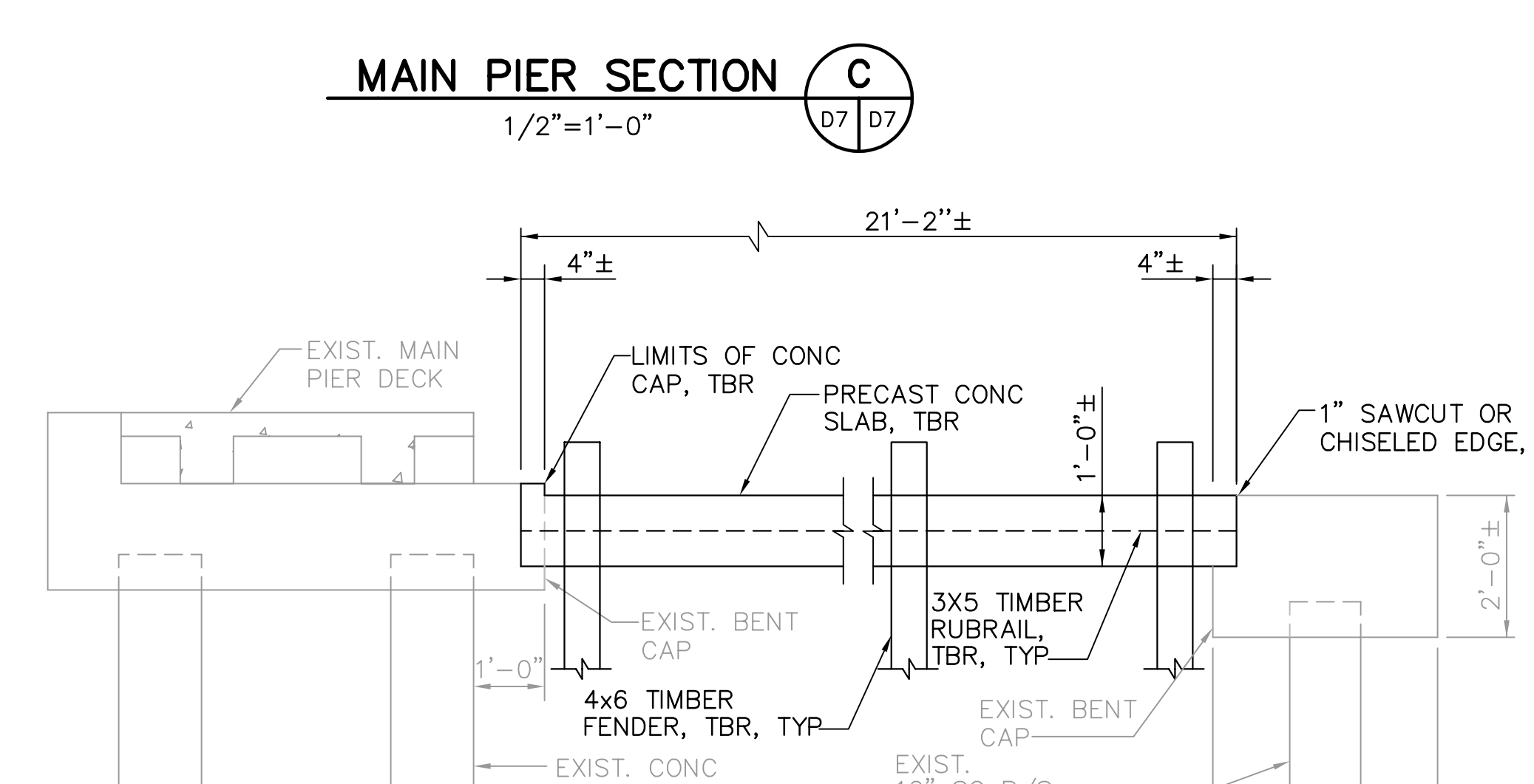
MAIN PIER SECTION C
 1/2"=1'-0"
 D7 D7



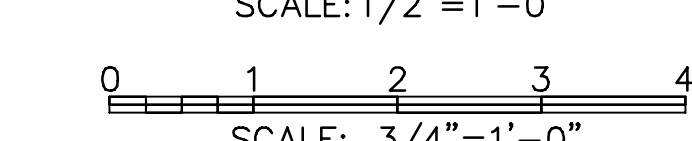
MAIN PIER SECTION D
 3/4"=1'-0"
 D7 D7



SZ FINGER PIER DEMOLITION DETAIL 3
 1/2"=1'-0"
 D2 D7



SZ SECTION E
 1/2"=1'-0"
 D7 D7



NOTES:
 1. CANOPY NOT SHOWN FOR CLARITY
 2. EXISTING REINFORCEMENT NOT KNOWN.
 NOTE:
 ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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RECORD DRAWING
 ISSUED 06 AUGUST 2007

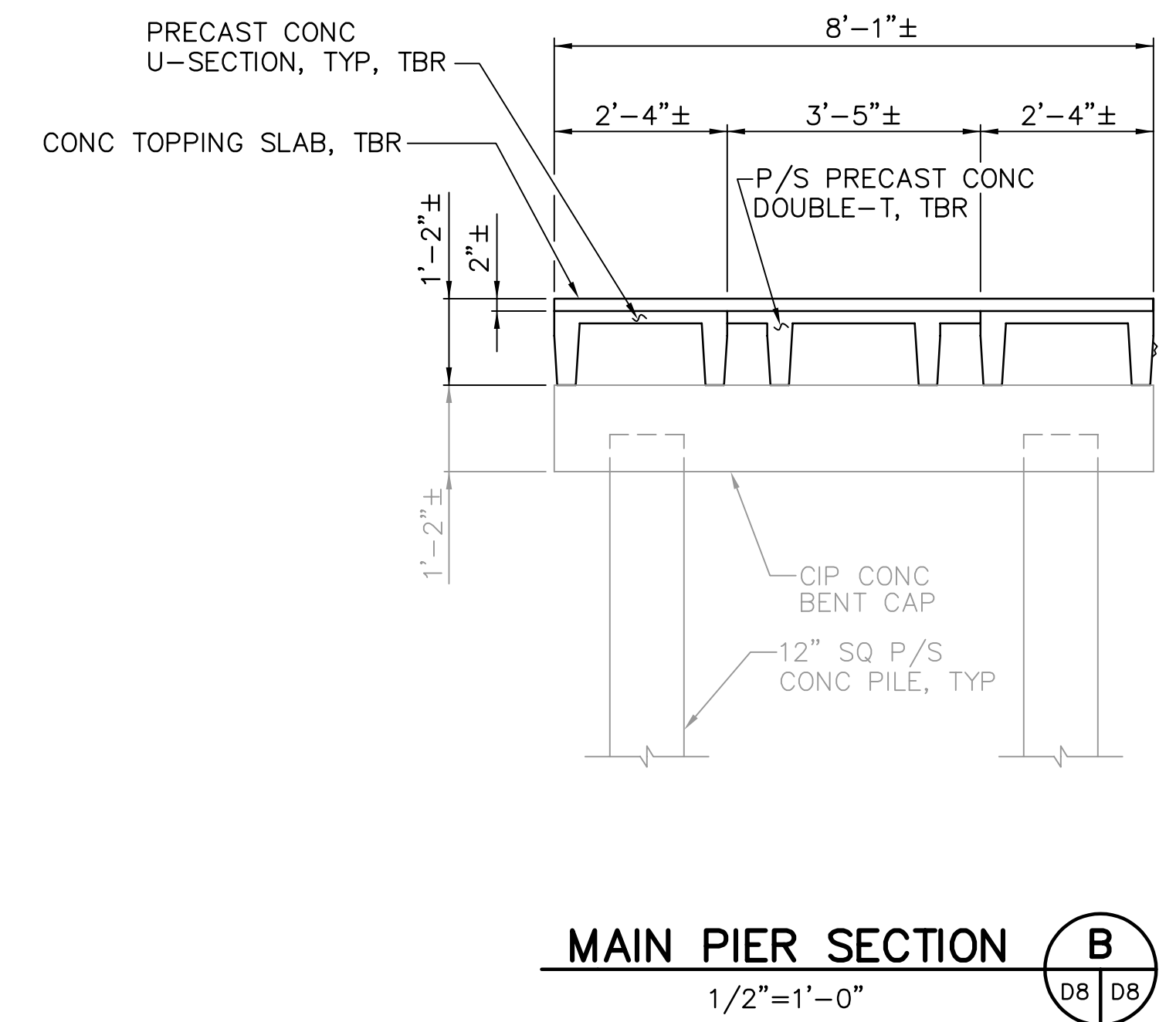
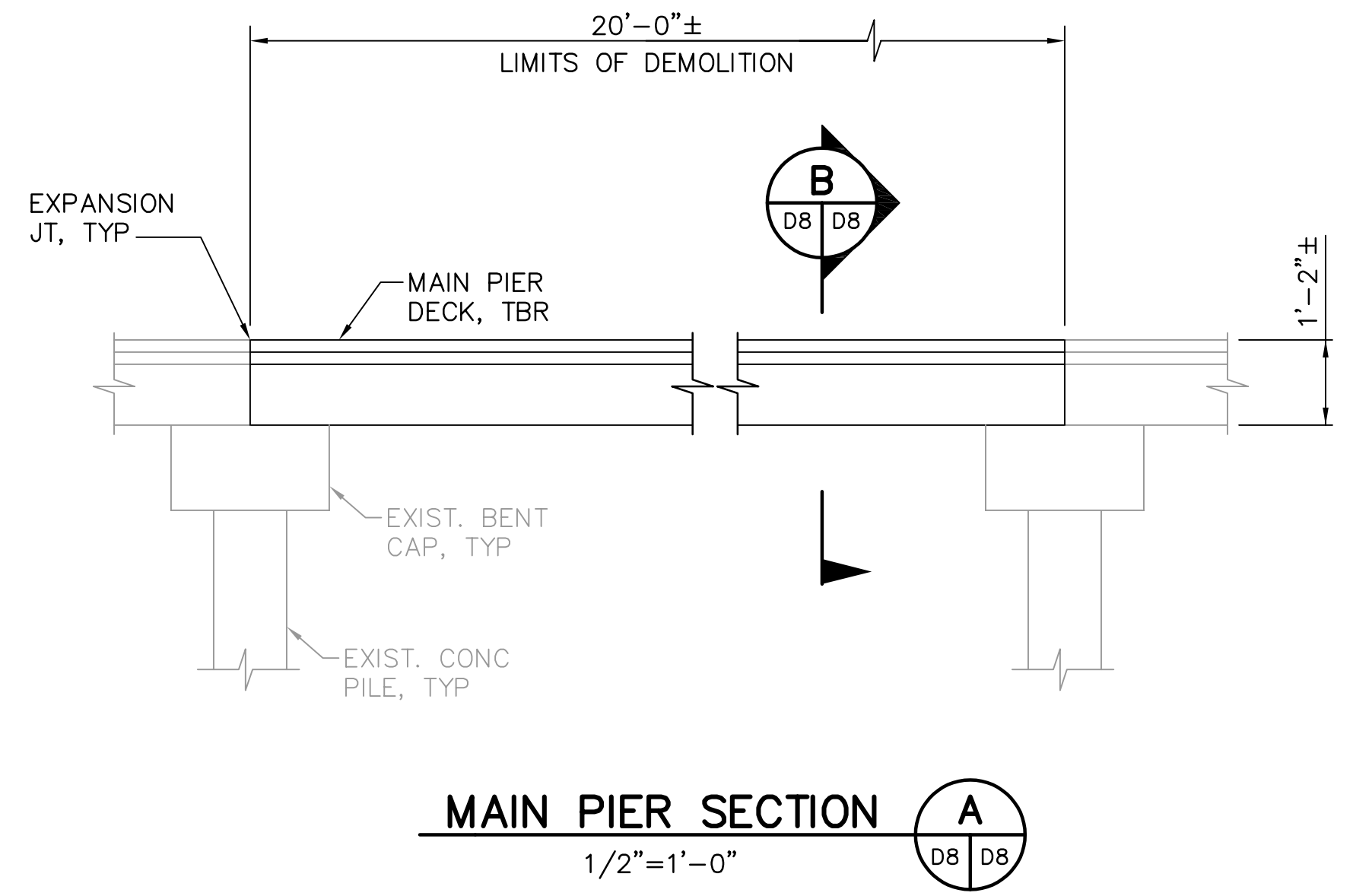
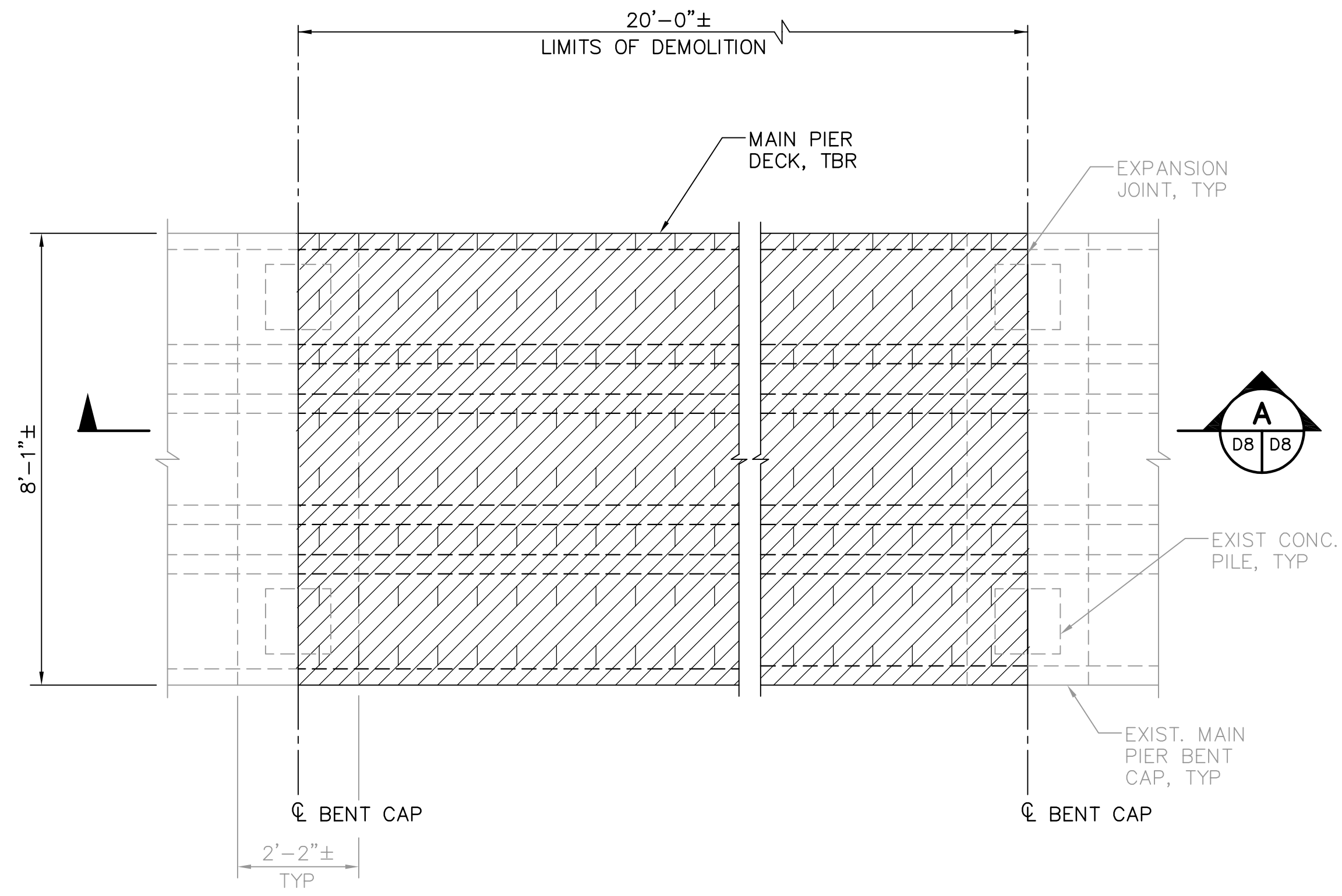
DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

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 CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION DETAILS
SHEET 1 OF 4
 DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-12
 SHEET No.: **D7**

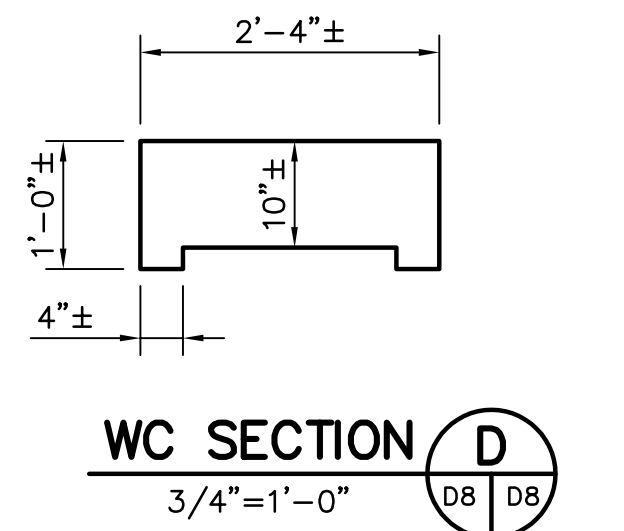
JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745



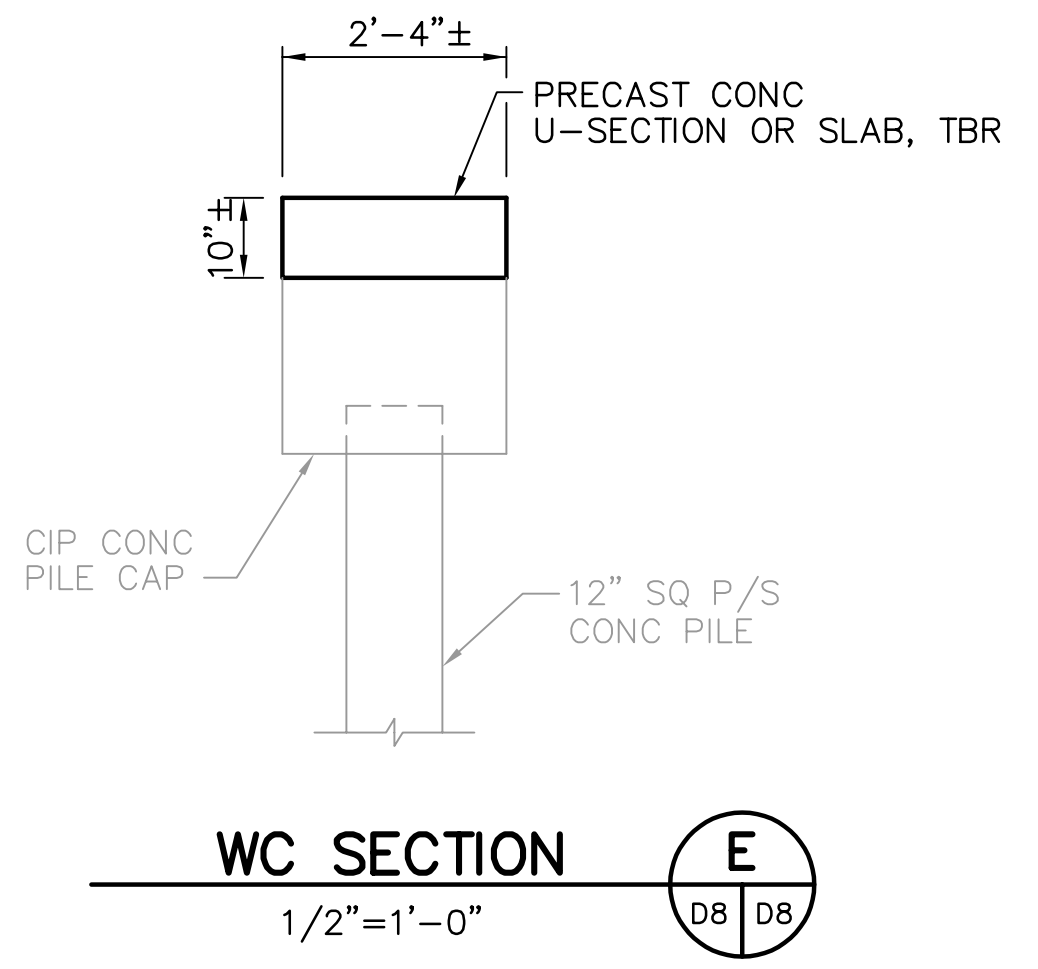
WEST DOCKS MAIN PIER DEMOLITION DETAIL 1
1/2"=1'-0"

MAIN PIER SECTION A
1/2"=1'-0"

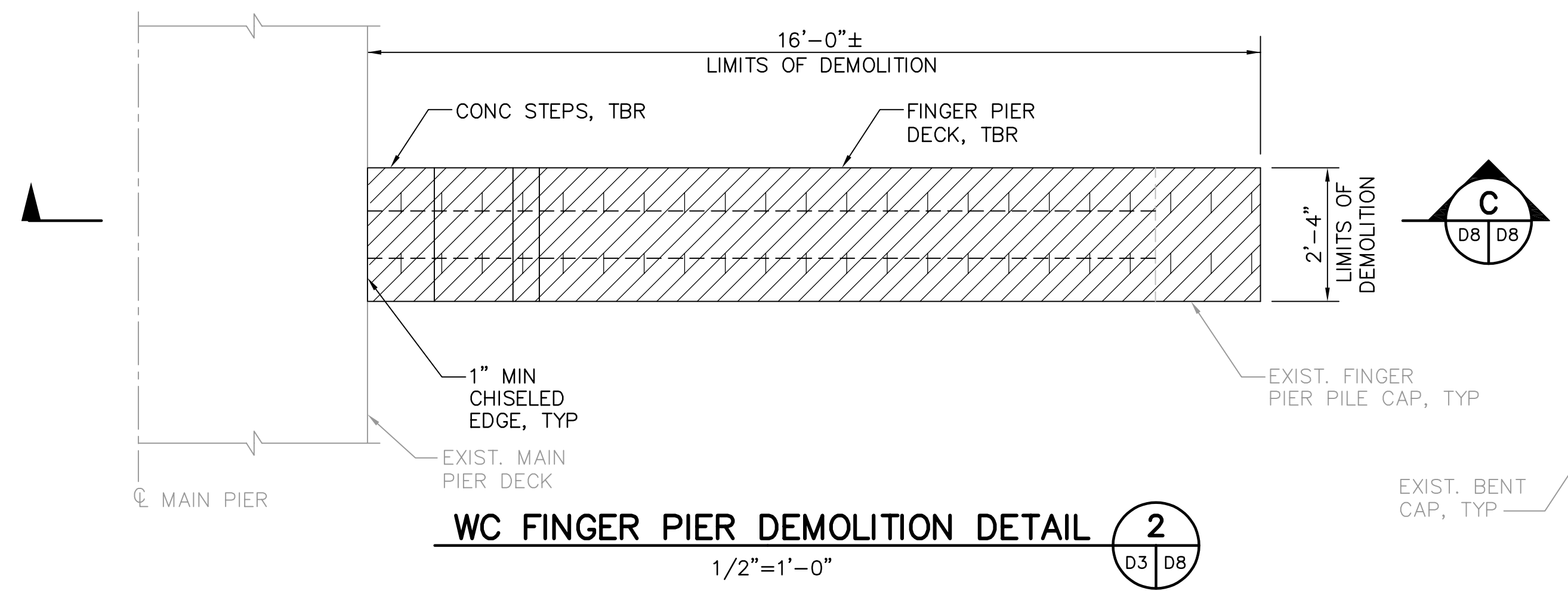
MAIN PIER SECTION B
1/2"=1'-0"



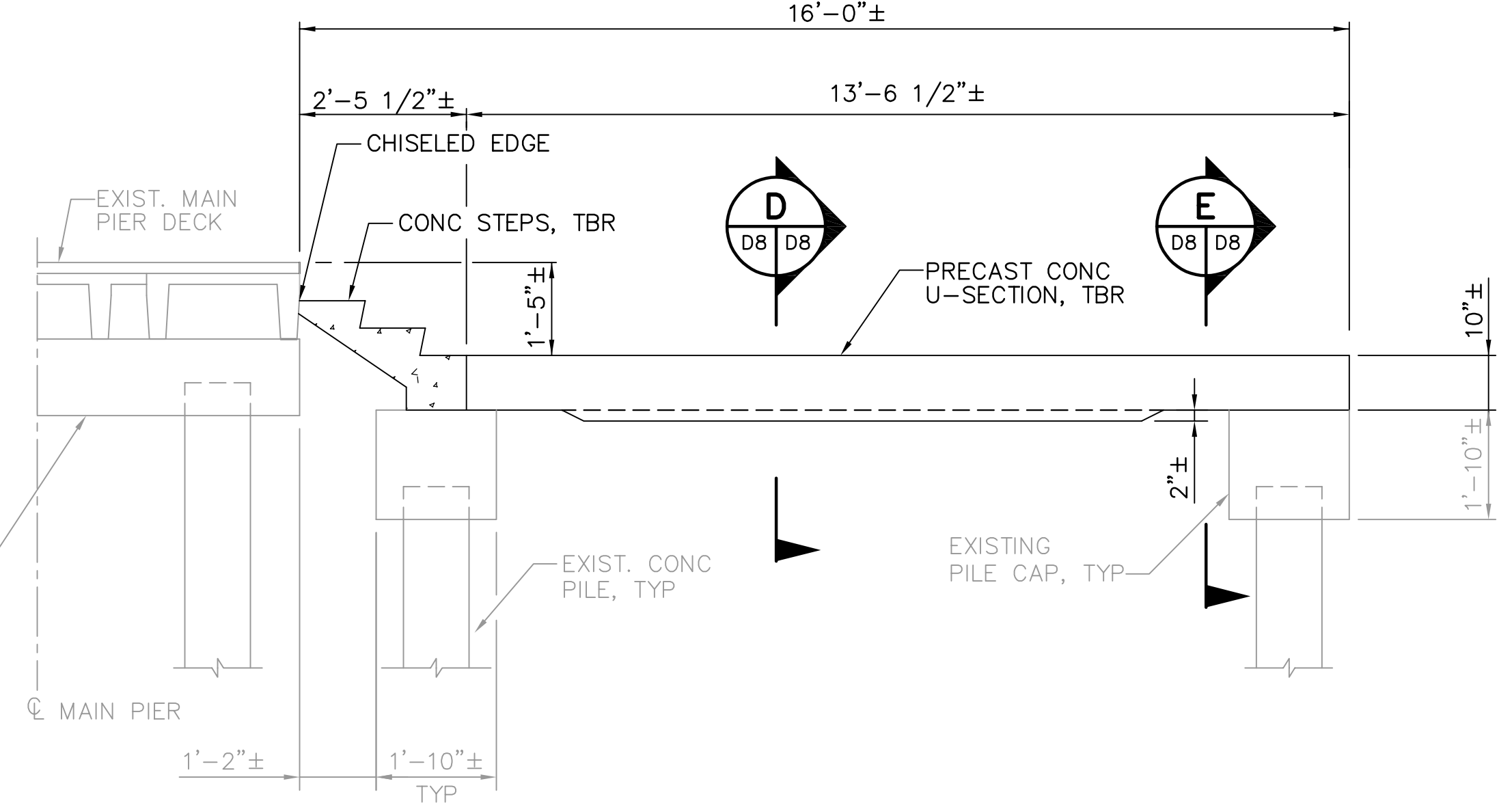
WC SECTION D
3/4"=1'-0"



WC SECTION E
1/2"=1'-0"

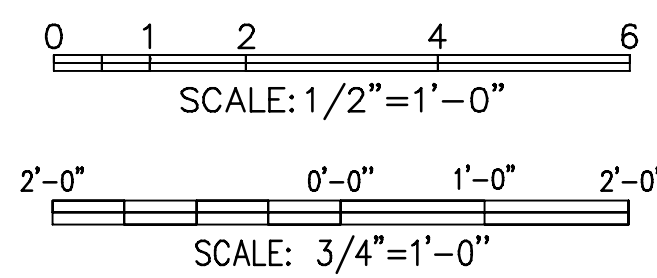


WC FINGER PIER DEMOLITION DETAIL 2
1/2"=1'-0"



WC SECTION C
1/2"=1'-0"

NOTE:
EXISTING REINFORCEMENT NOT KNOWN.



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RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
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TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

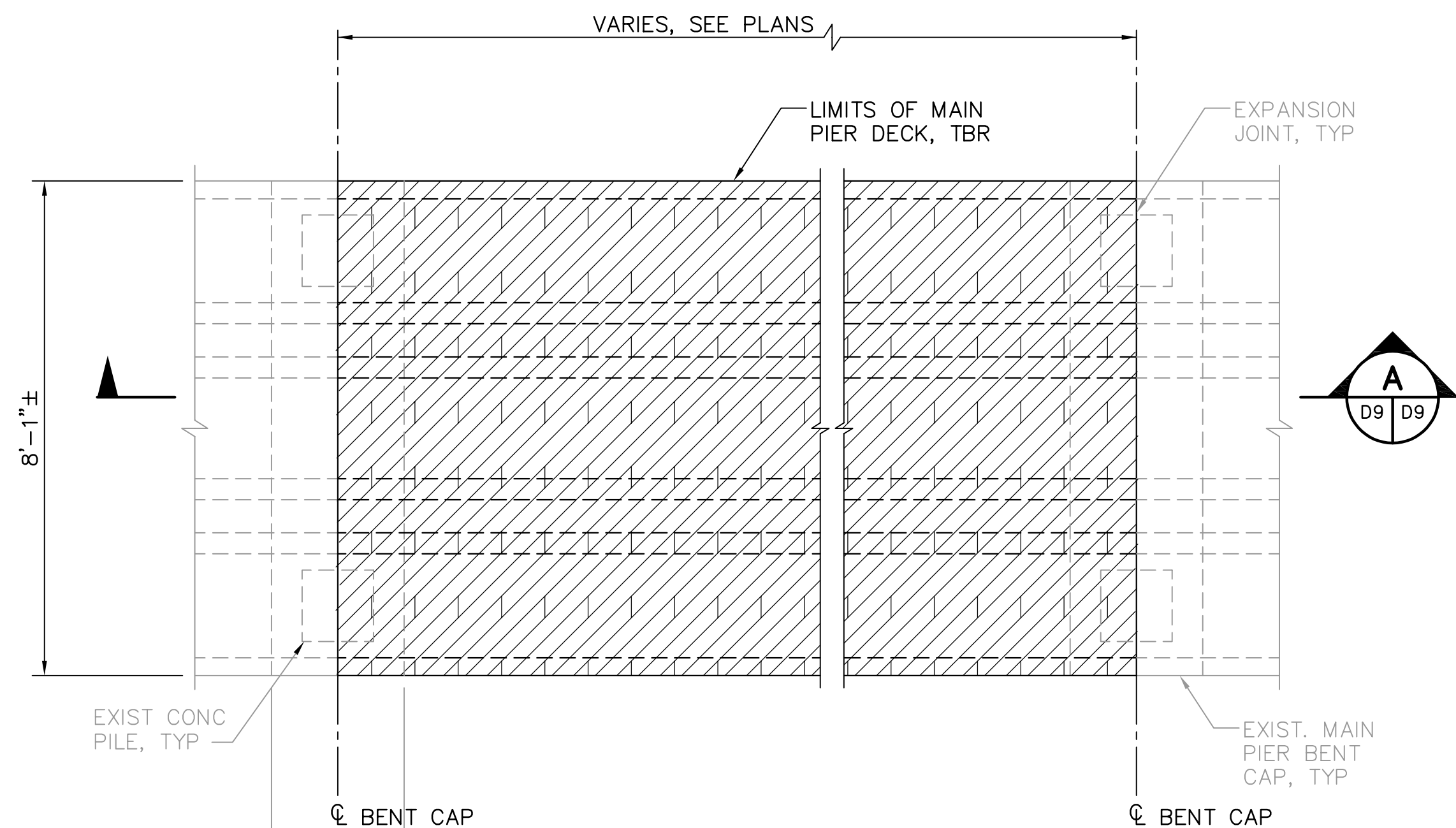
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DEMOLITION DETAILS
SHEET 2 OF 4

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-13
SHEET No.: D8

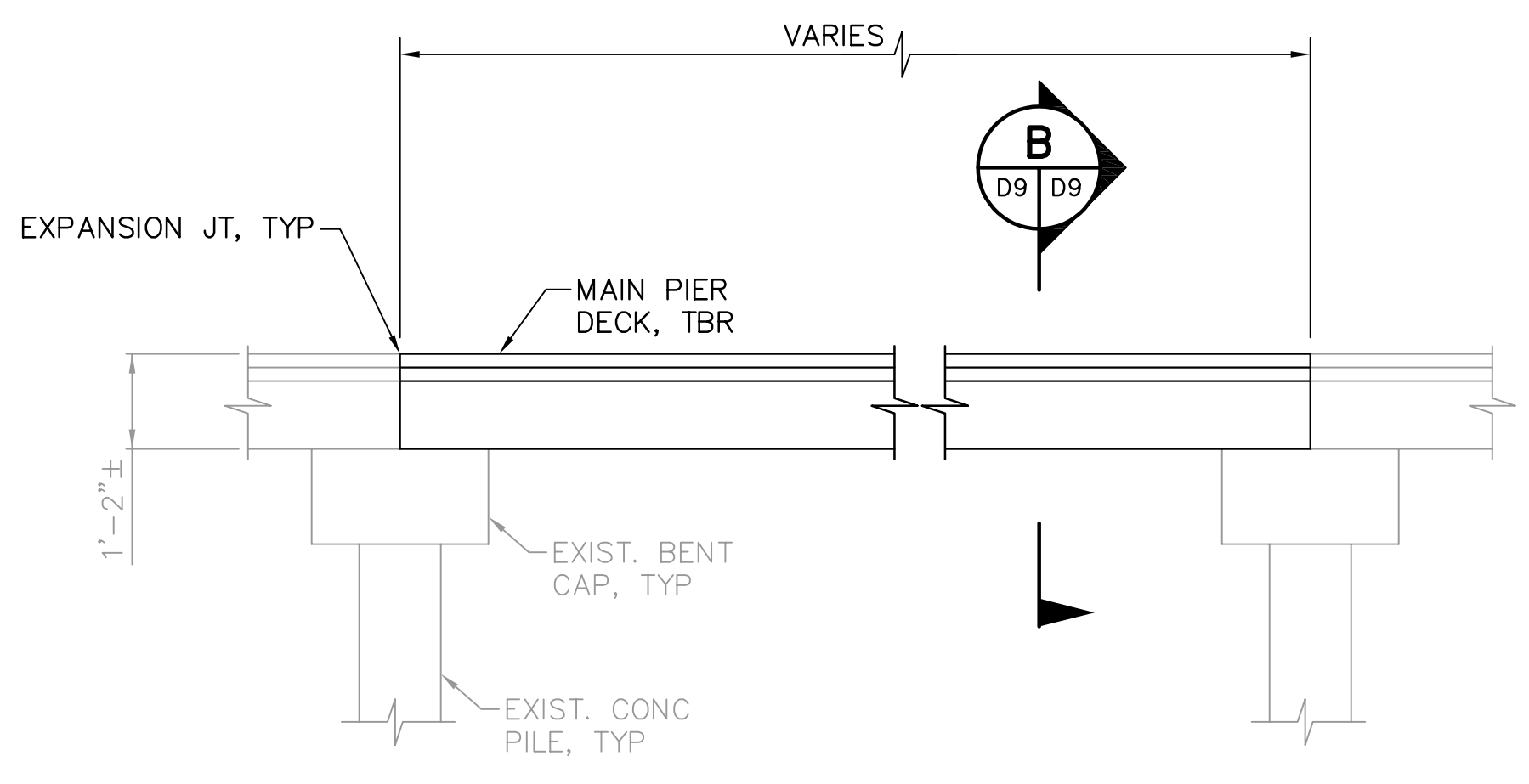
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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

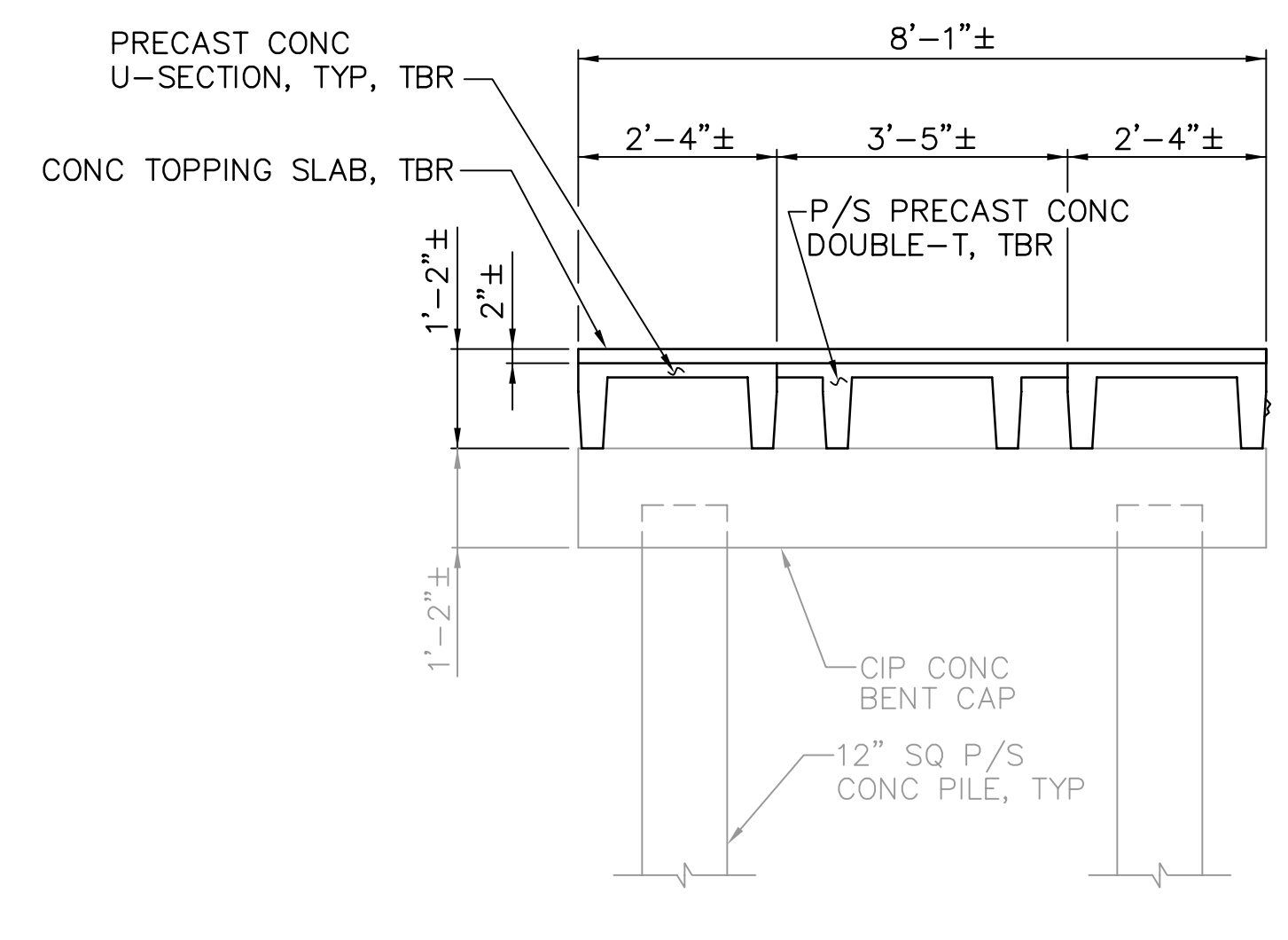


NOTE:
1. WHERE ADJACENT SPANS ARE SCHEDULED TBR, SAWCUT/CHISELED EDGE NOT REQUIRED BETWEEN THESE SPANS.

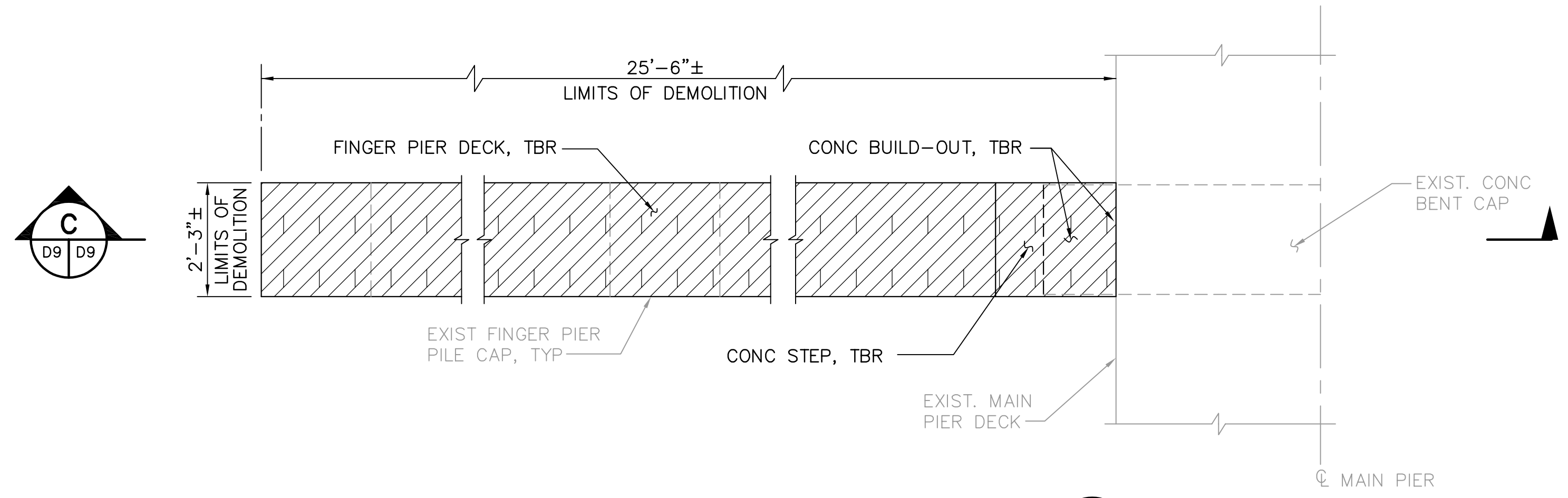
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1/2"=1'-0" D4 D9 D5, D6



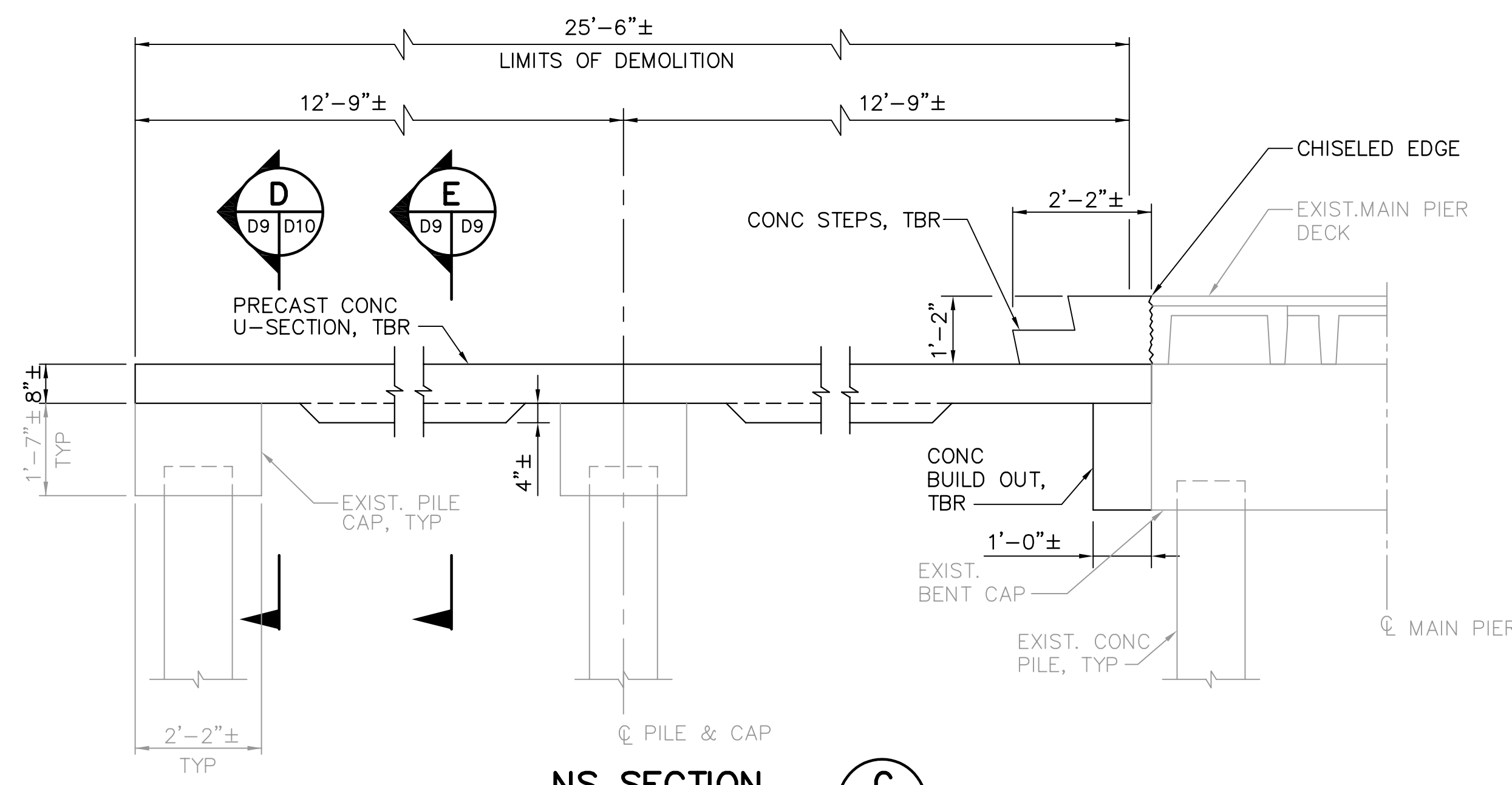
MAIN PIER SECTION A
1/2"=1'-0" D9 D9



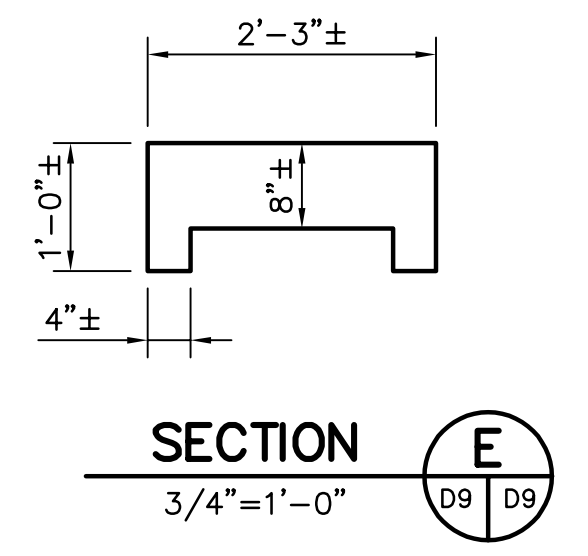
MAIN PIER SECTION B
1/2"=1'-0" D9 D9



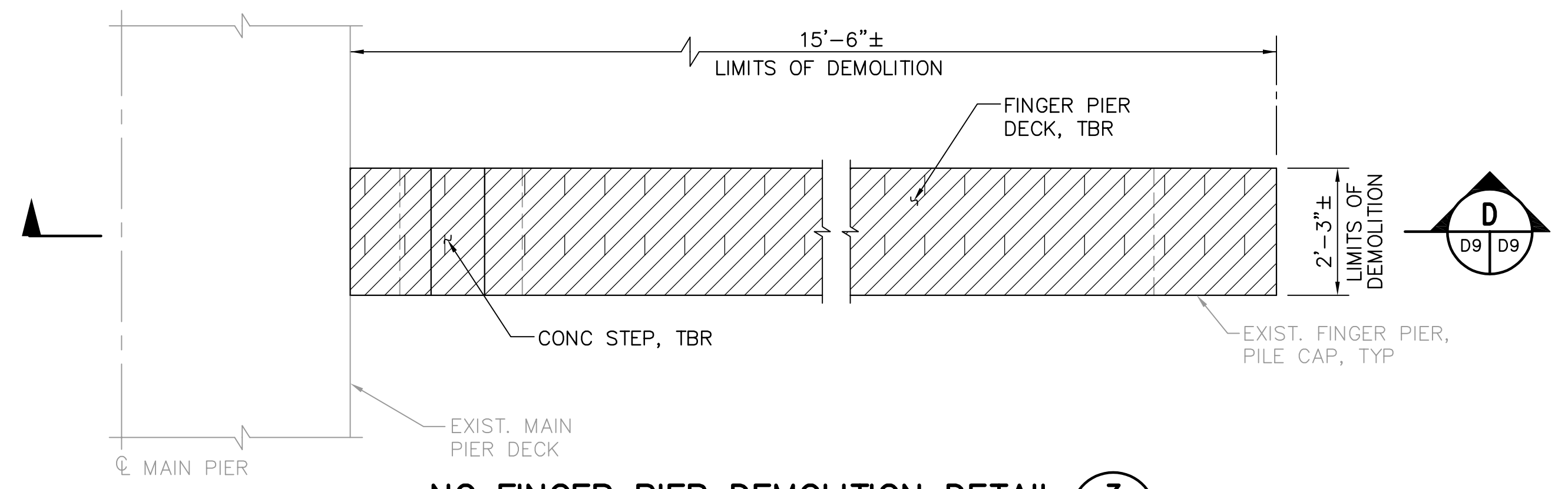
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1/2"=1'-0" D4 D9



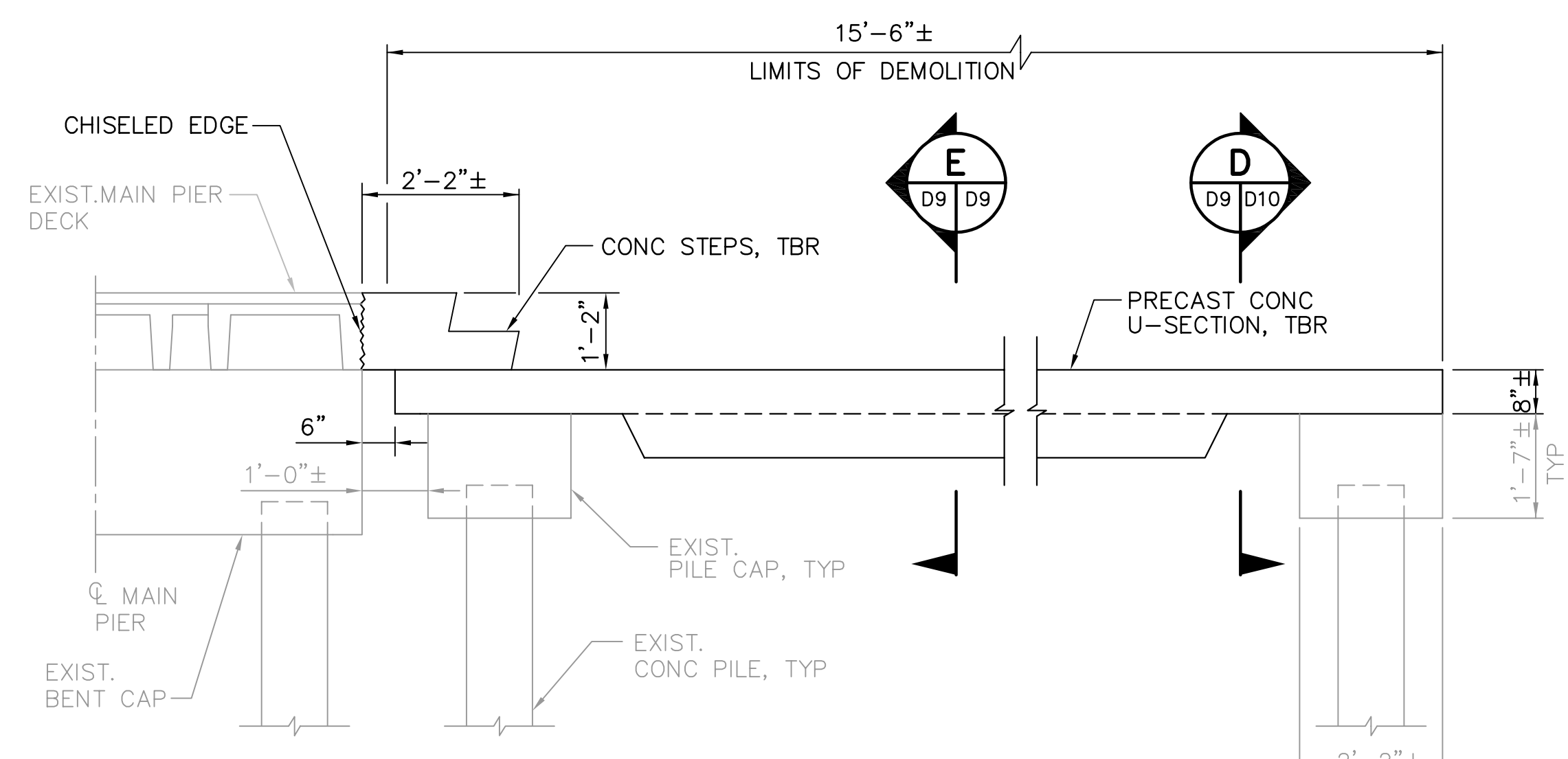
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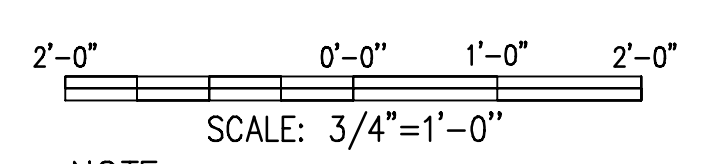
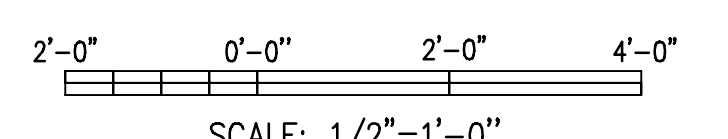
SECTION E
3/4"=1'-0" D9 D9



NC FINGER PIER DEMOLITION DETAIL 3
1/2"=1'-0" D4 D9



NC SECTION D
1/2"=1'-0" D9 D9



NOTE:
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NOTE:
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RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

MOFFATT & NICHOL ENGINEERS
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TAMPA, FLORIDA 33606
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LIC: EB-0004877

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CITY OF ST. PETERSBURG

APPROVED BY:

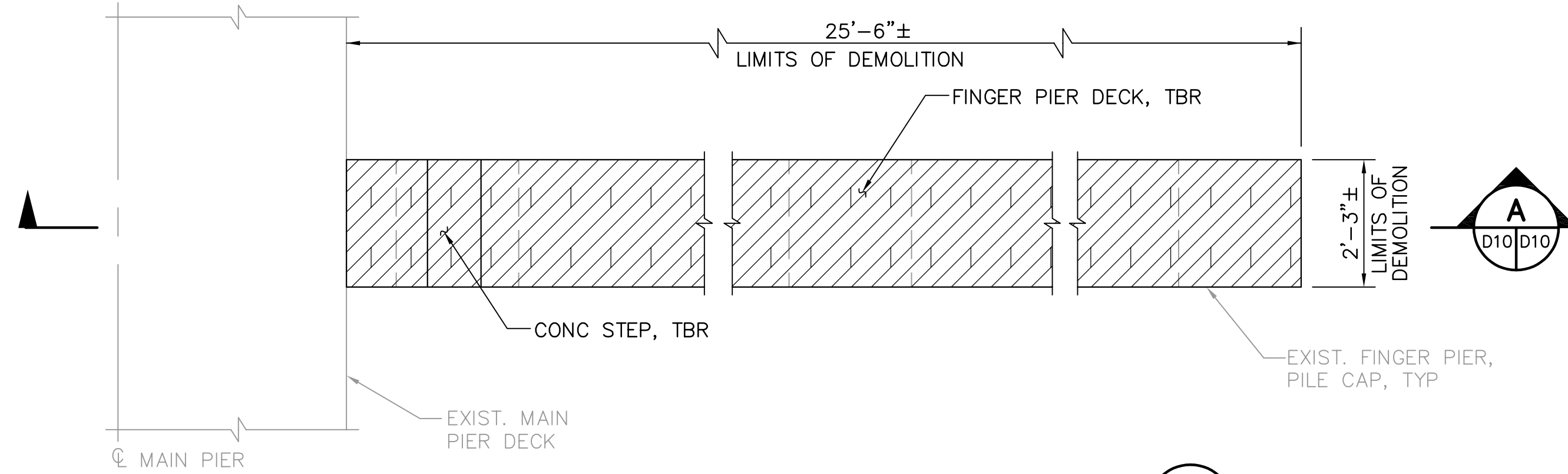
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

DEMOLITION DETAILS
SHEET 3 OF 4

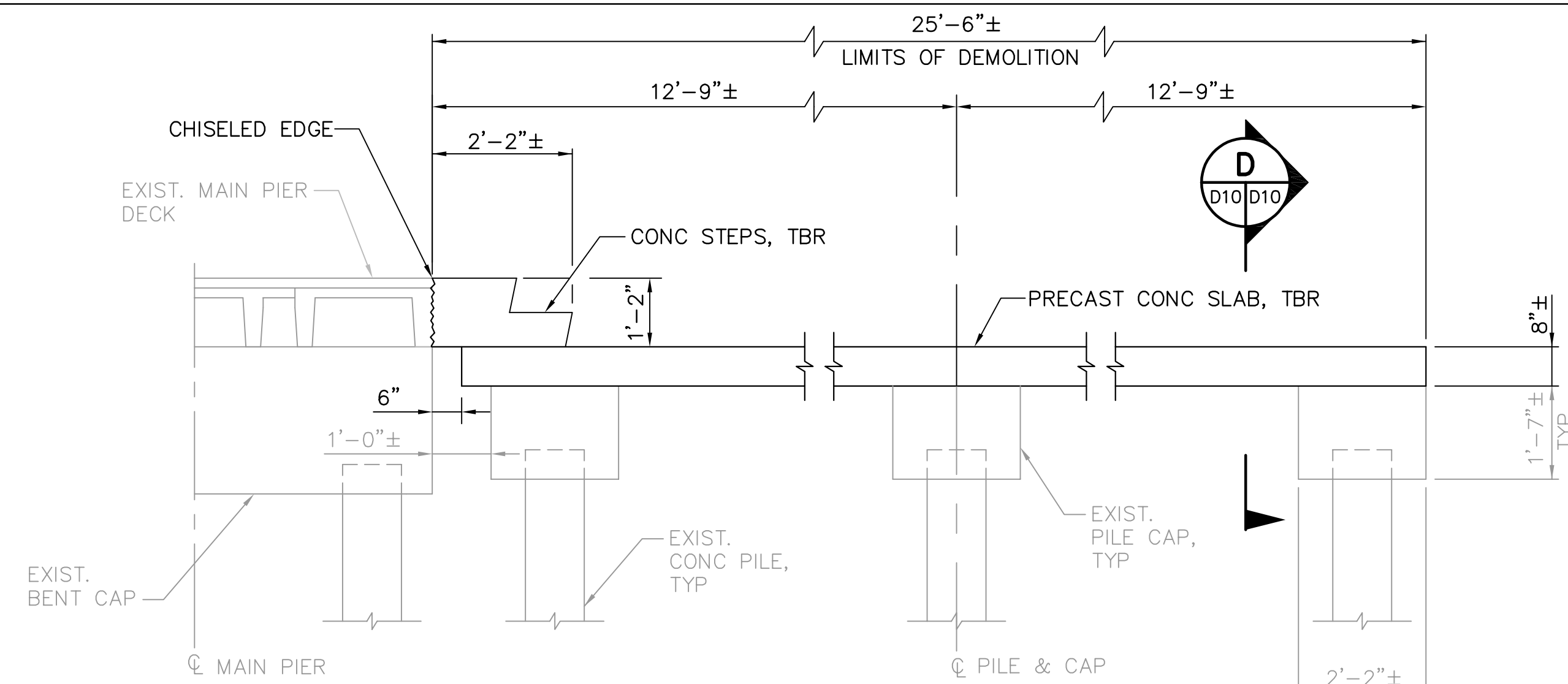
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SCALE: AS SHOWN
DRAWING No.: 10175-14
SHEET No.: **D9**

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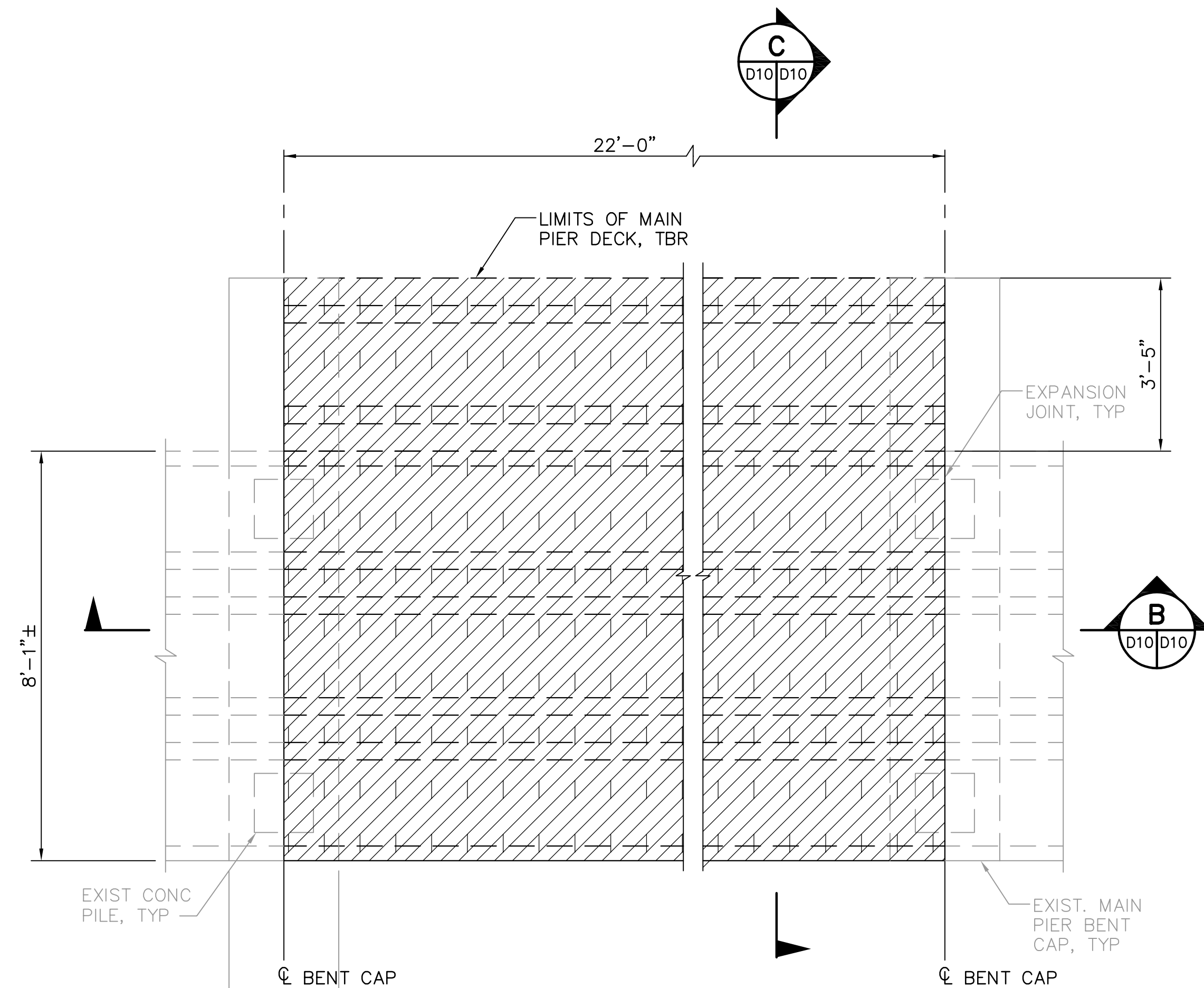
JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745



NB FINGER PIER DEMOLITION DETAIL 1
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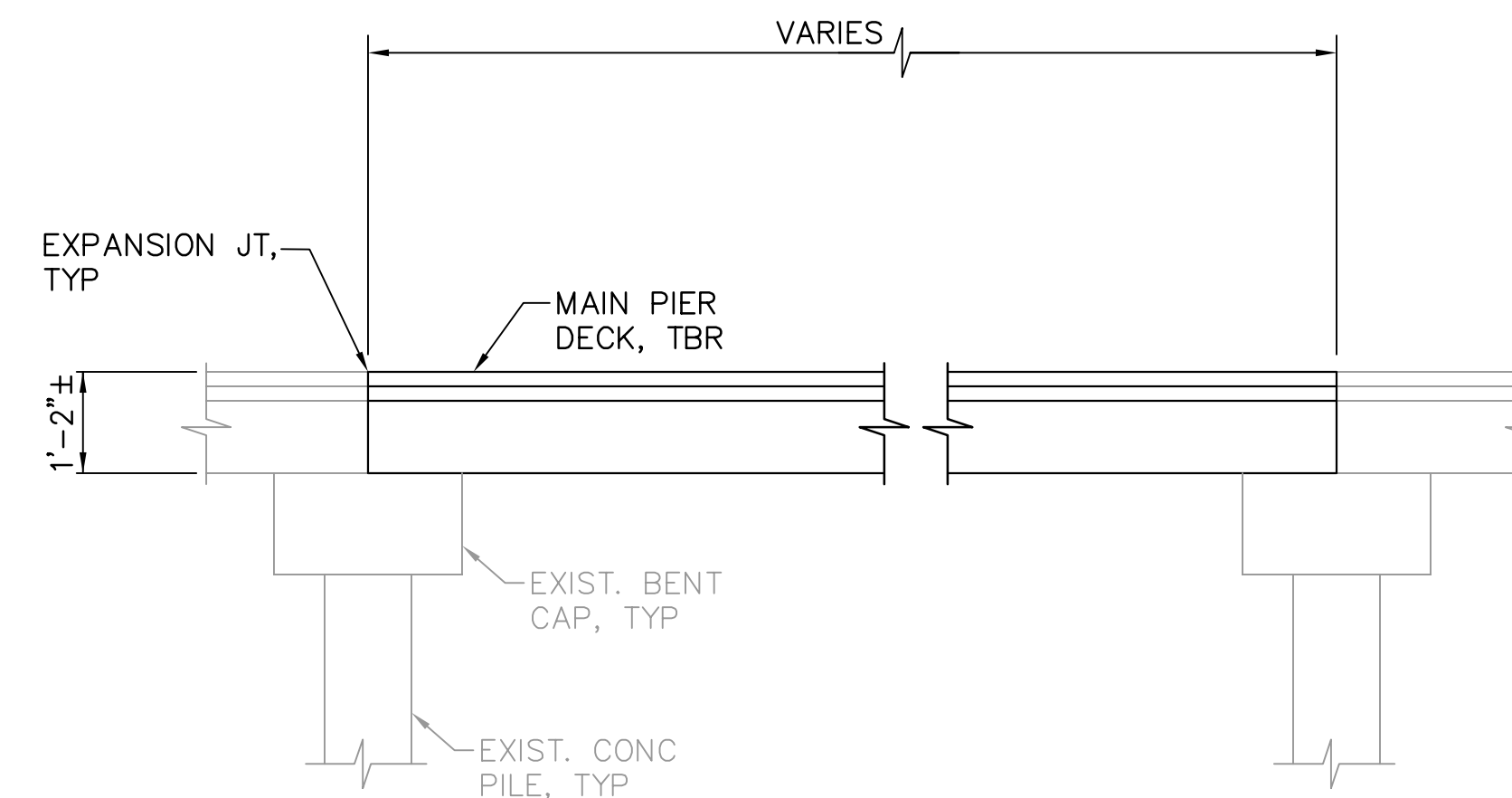


NB SECTION A
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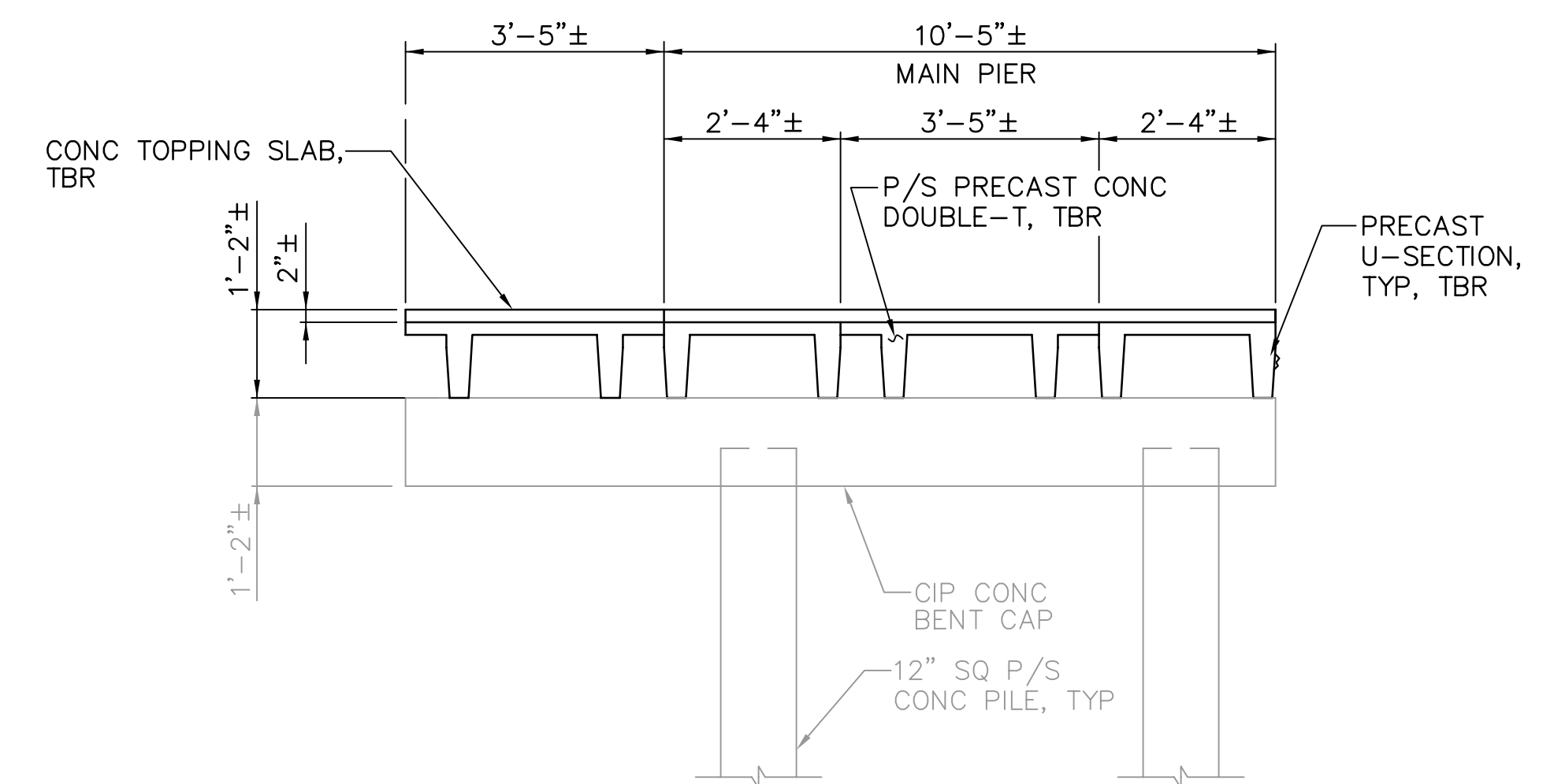


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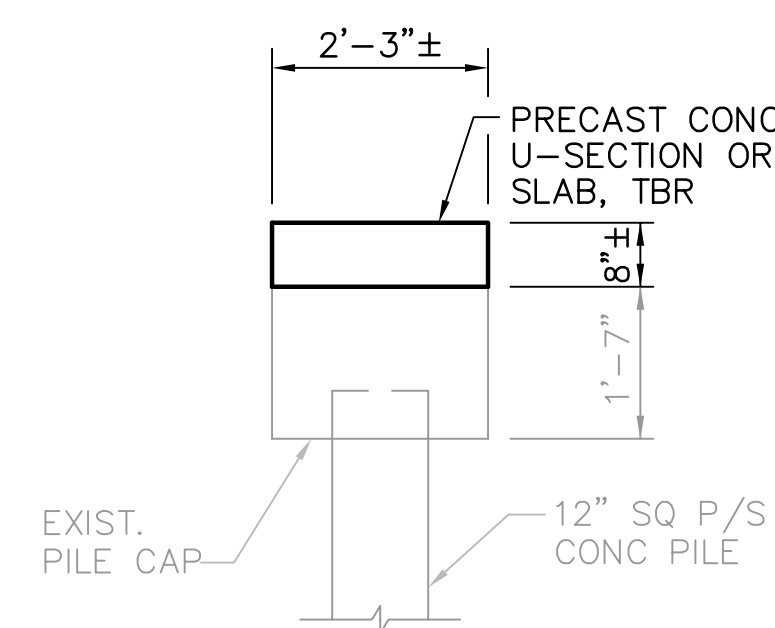
NOTE:
1. WHERE ADJACENT SPANS ARE SCHEDULED TBR, SAWCUT/CHISELED EDGE NOT REQUIRED BETWEEN THESE SPANS.



MAIN PIER SECTION B
1/2"=1'-0"

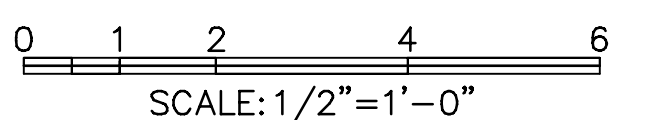


MAIN PIER SECTION C
1/2"=1'-0"



SECTION D
1/2"=1'-0"

NOTE:
EXISTING REINFORCEMENT NOT KNOWN.



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JAM DATE: 01/04
DRAWN BY: EGW DATE: 02/04
CHECKED BY: JDM DATE: 02/04
FIELD BOOK No. PAGE THRU
BM No. EL.
LOCATION:

REVISIONS	BY	DATE

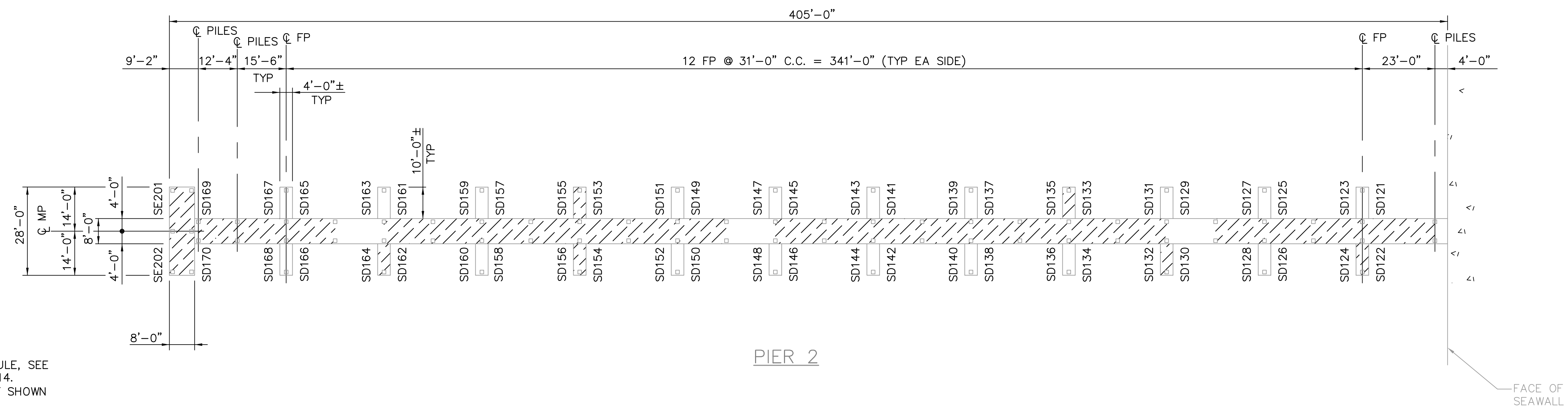
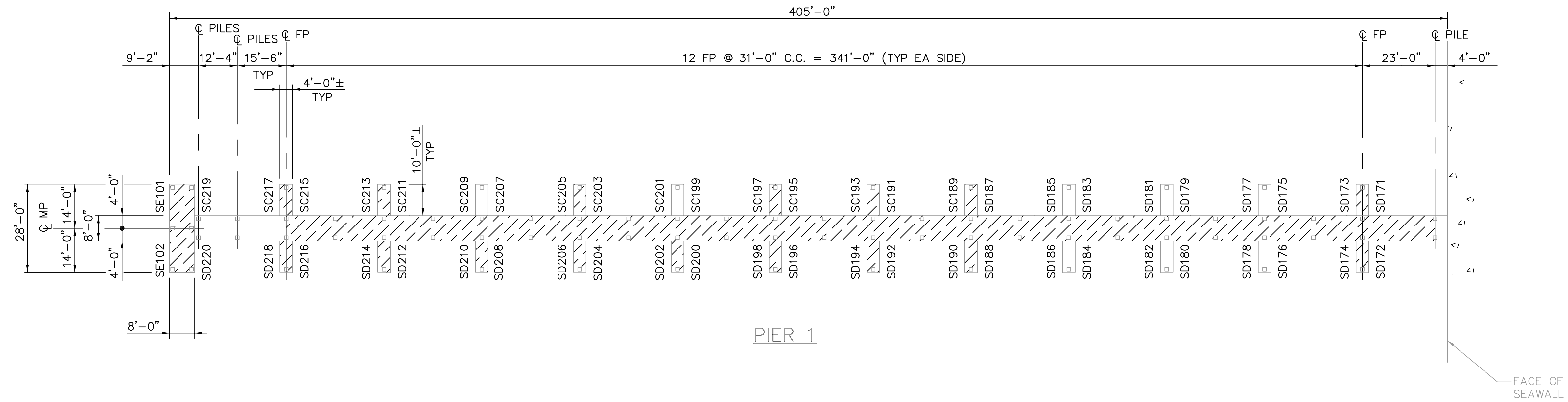
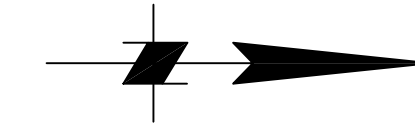
MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

APPROVED BY: [Signature]
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

DEMOLITION DETAILS
SHEET 4 OF 4

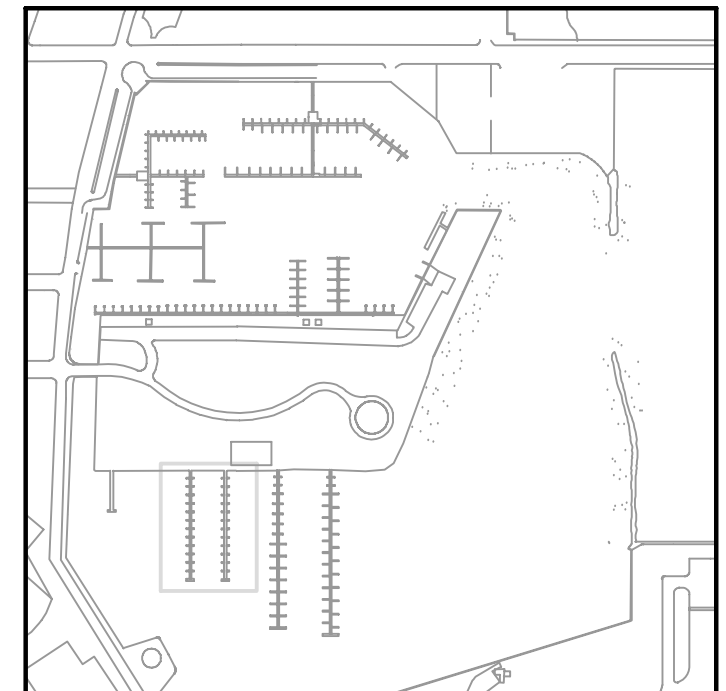
DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-15
SHEET No.: **D10**



- NOTES:**
- FOR REPAIR SCHEDULE, SEE SHEETS S13 AND S14.
 - MOORING PILES NOT SHOWN FOR CLARITY.

LEGEND
 REPAIR DECK

STRUCTURAL PLAN—SOUTH DOCKS
 1
 1"=20'



KEY PLAN
 0 10 20 40 60
 SCALE: 1"=20'

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

NOTE:
 ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 06 AUGUST 2007

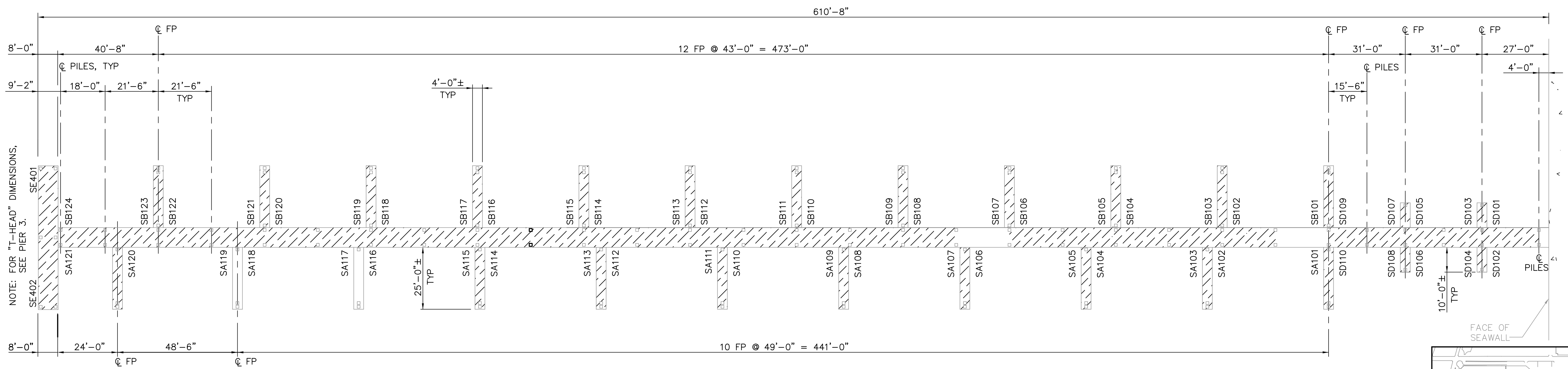
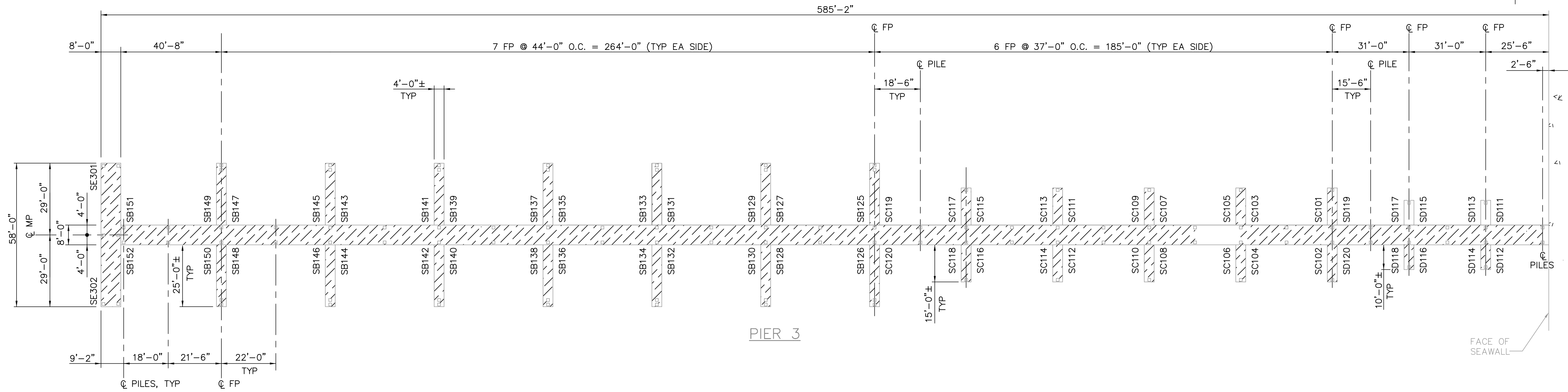
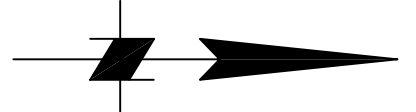
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DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

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 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN SOUTH DOCKS
 SHEET 1 OF 2

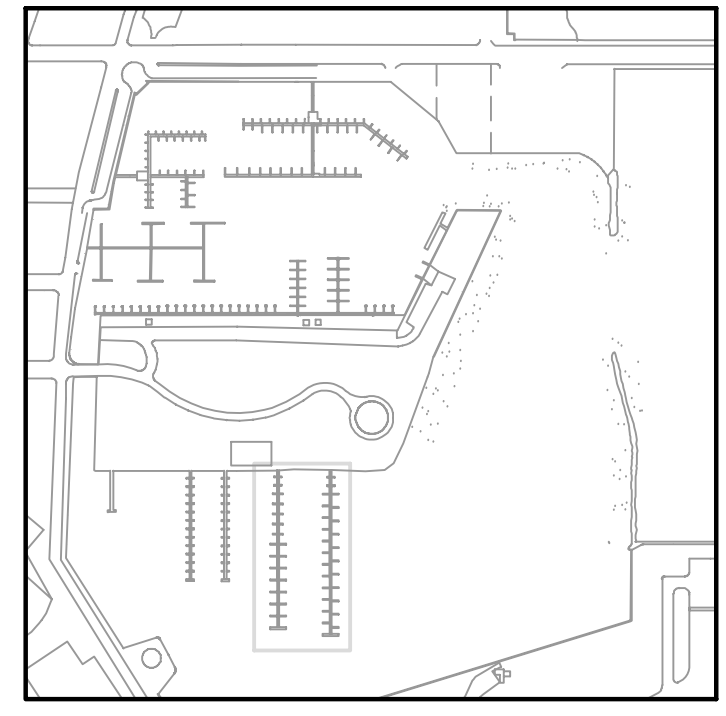
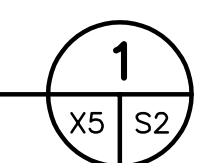
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 SCALE: AS SHOWN
 DRAWING No.: 10175-16
 SHEET No.: **S1**



LEGEND
 REPAIR DECK

NOTES:
 1. FOR REPAIR SCHEDULE, SEE SHEETS S13 AND S14.
 2. MOORING PILES NOT SHOWN FOR CLARITY.

STRUCTURAL PLAN—SOUTH DOCKS
 1"=20'



KEY PLAN
 0 10 20 40 60
 SCALE: 1"=20'

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 08 AUGUST 2007

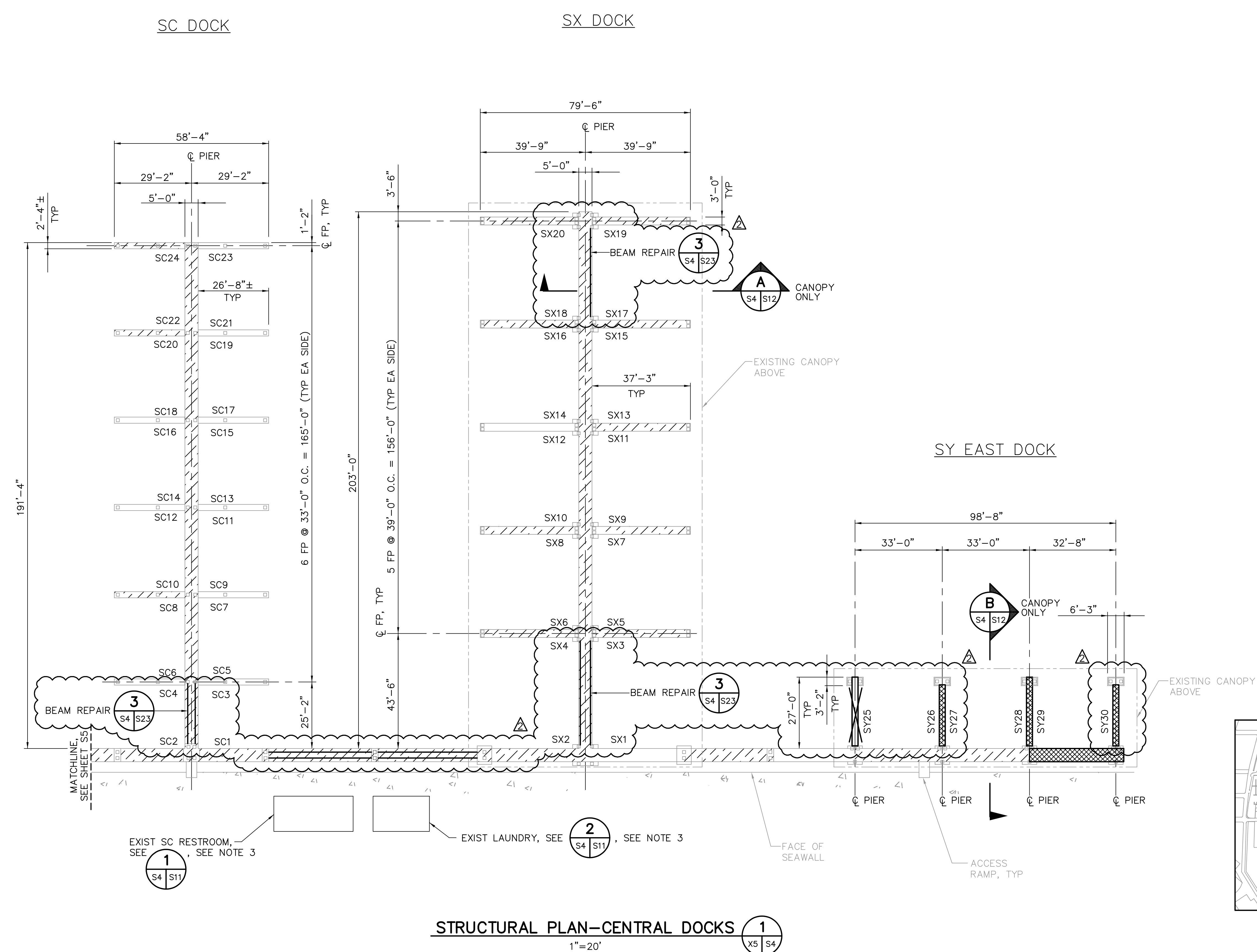
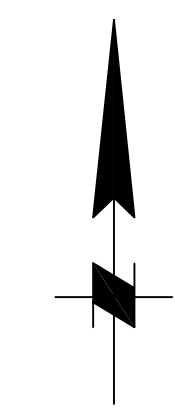
DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

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 ENGINEERS
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-0004877

APPROVED BY:
 ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG

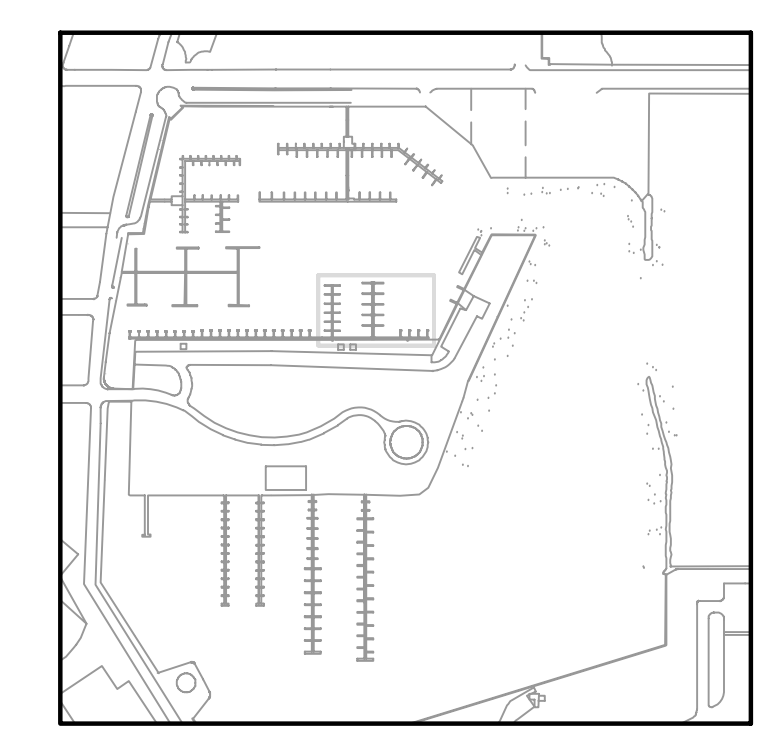
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN SOUTH DOCKS
 SHEET 2 OF 2

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-17
 SHEET No.: **S2**

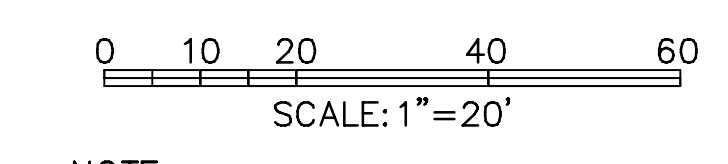


- NOTES:**
- FOR REPAIR SCHEDULE, SEE SHEETS S15 AND S16.
 - MOORING PILES NOT SHOWN FOR CLARITY.
 - FOR BUILDING REPAIR SCHEDULE SEE SHEET S19.

- LEGEND**
- REPLACE DECK
 - REPAIR DECK



STRUCTURAL PLAN-CENTRAL DOCKS 1
1"=20'



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL.			
			TV	07.27.07

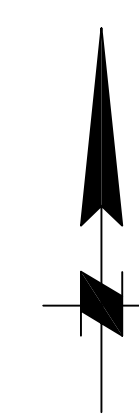
MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

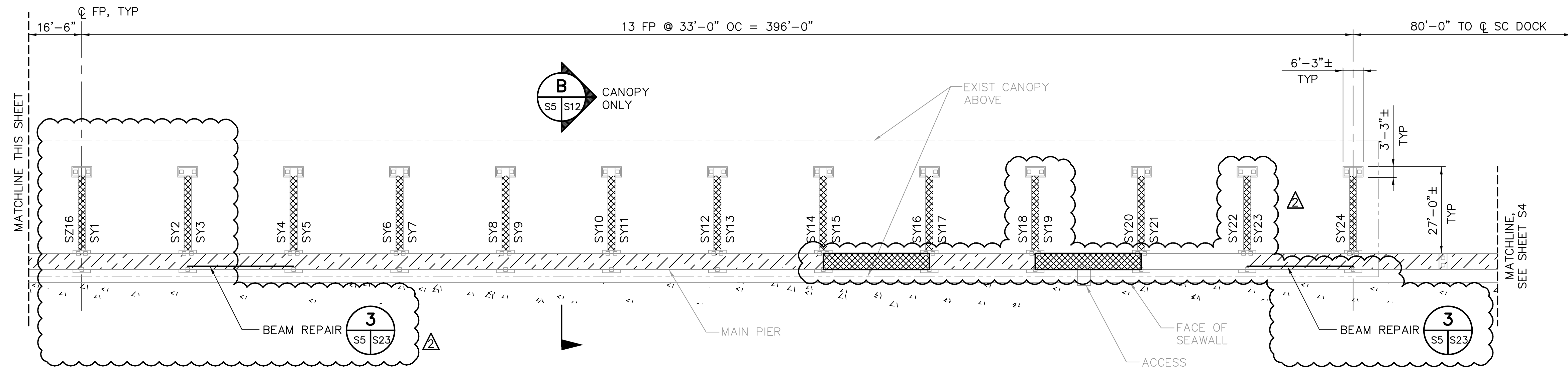
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN CENTRAL DOCKS
SHEET 1 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-19
SHEET No.: **S4**

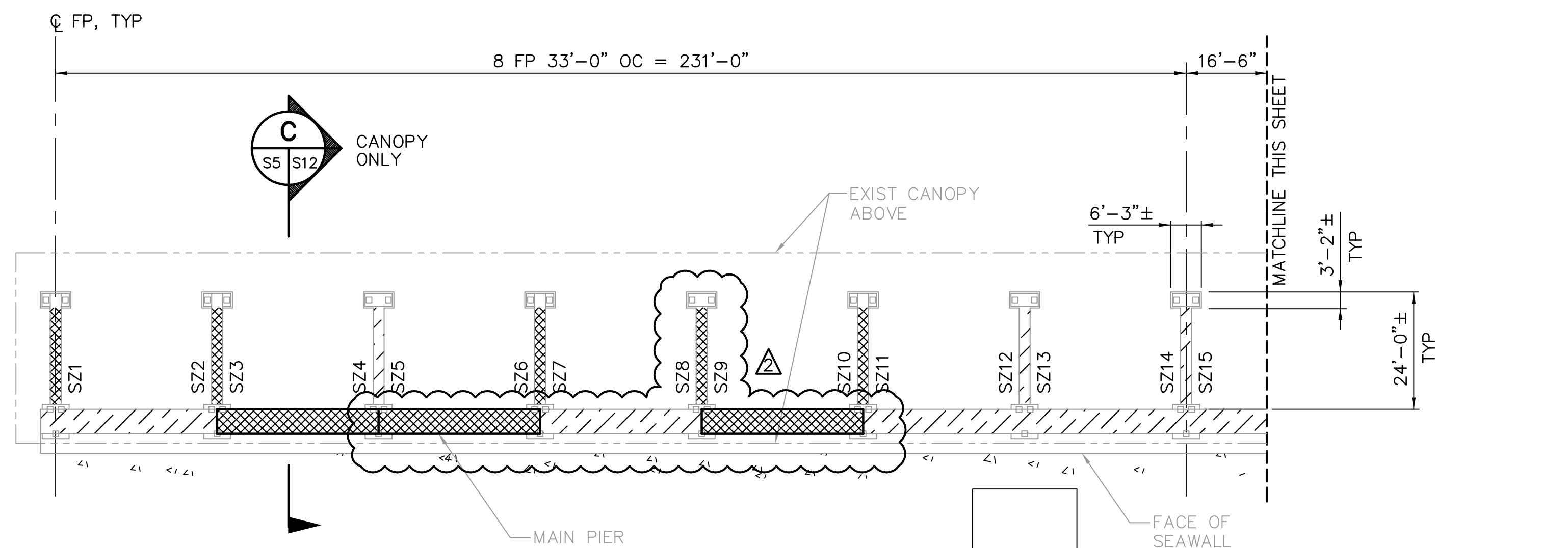
JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745



SY WEST DOCK



SZ DOCK



STRUCTURAL PLAN-CENTRAL DOCKS

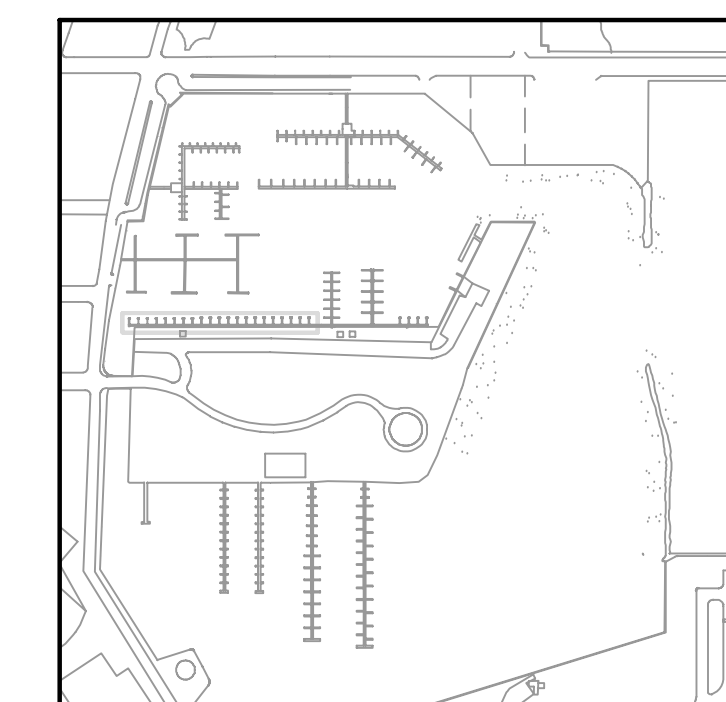
1"=20'

NOTES:

1. FOR REPAIR SCHEDULE, SEE SHEETS S15 AND S16.
2. MOORING PILES NOT SHOWN FOR CLARITY.
3. FOR BUILDING REPAIR SCHEDULE, SEE SHEET S19.

LEGEND

- REPLACE DECK
- REPAIR DECK



KEY PLAN



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL.			
RECORD DRAWINGS			TV	07.27.07

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813-258-8818
LIC: EB-0004877

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CITY OF ST. PETERSBURG
APPROVED BY:

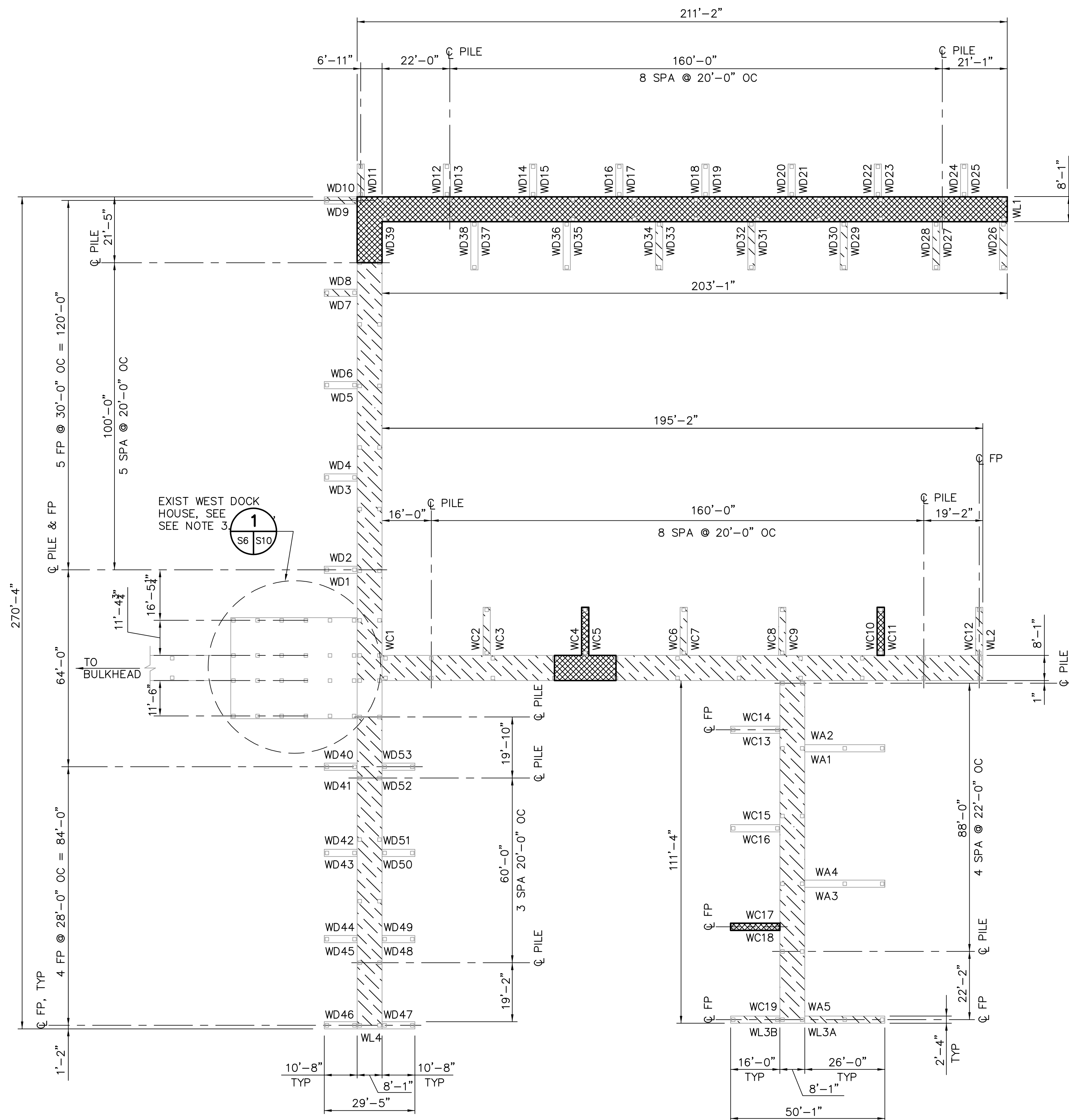
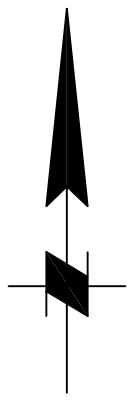
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN CENTRAL DOCKS
SHEET 2 OF 2

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-20
SHEET No.:	S5

RECORD DRAWING
ISSUED 06 AUGUST 2007

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

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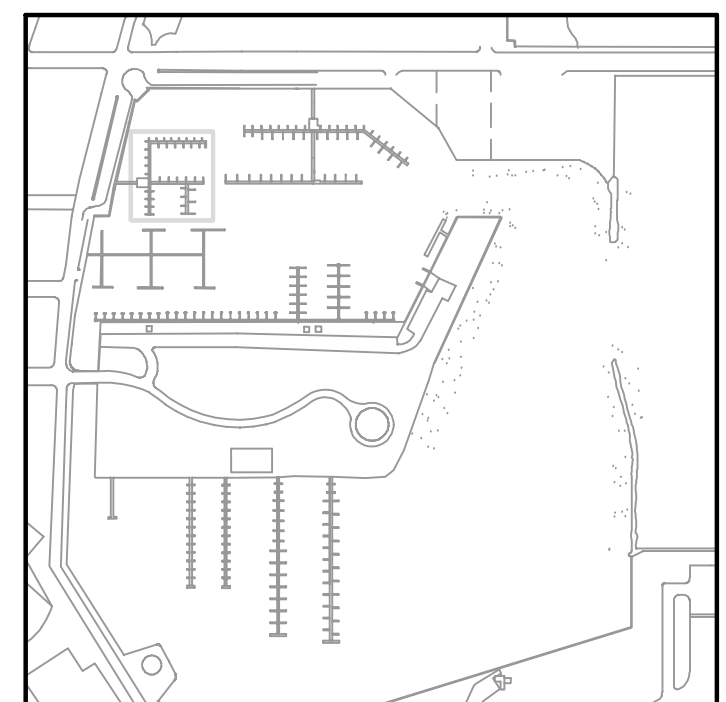
NOTES:

1. FOR REPAIR SCHEDULE, SEE SHEETS S16 AND S17.
2. MOORING PILES NOT SHOWN FOR CLARITY.
3. FOR DOCK HOUSE REPAIR SCHEDULE, SEE SHEET S19.

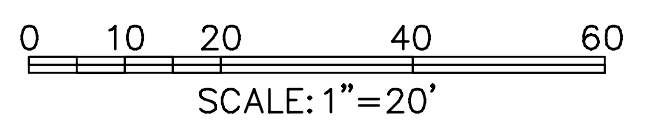
LEGEND

- REPLACE DECK
- REPAIR DECK

STRUCTURAL PLAN—WEST DOCKS 1
1"=20'



KEY PLAN



NOTE:
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DESIGNED BY:	DATE:	BY:	DATE:
JAM	01/04		
DRAWN BY:	DATE:		
EGW	02/04		
CHECKED BY:	DATE:		
JDM	02/04		
FIELD BOOK No.	PAGE	THRU	
BM No.	EL.		
LOCATION:			

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ENGINEERS
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813-258-8818
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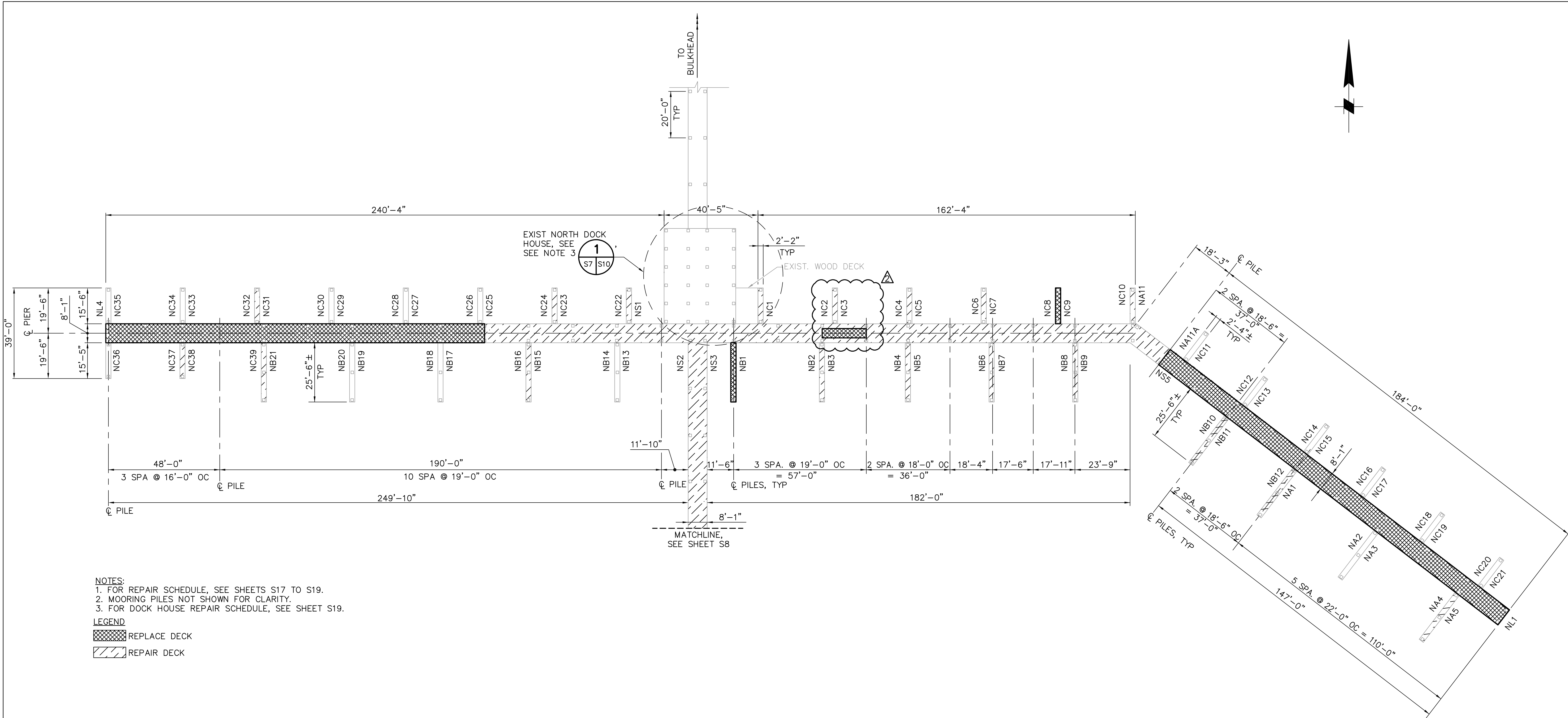
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
**STRUCTURAL PLAN
WEST DOCKS**

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-21
SHEET No.:	S6

RECORD DRAWING
ISSUED 06 AUGUST 2007

JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745



- NOTES:
1. FOR REPAIR SCHEDULE, SEE SHEETS S17 TO S19.
 2. MOORING PILES NOT SHOWN FOR CLARITY.
 3. FOR DOCK HOUSE REPAIR SCHEDULE, SEE SHEET S19.

LEGEND

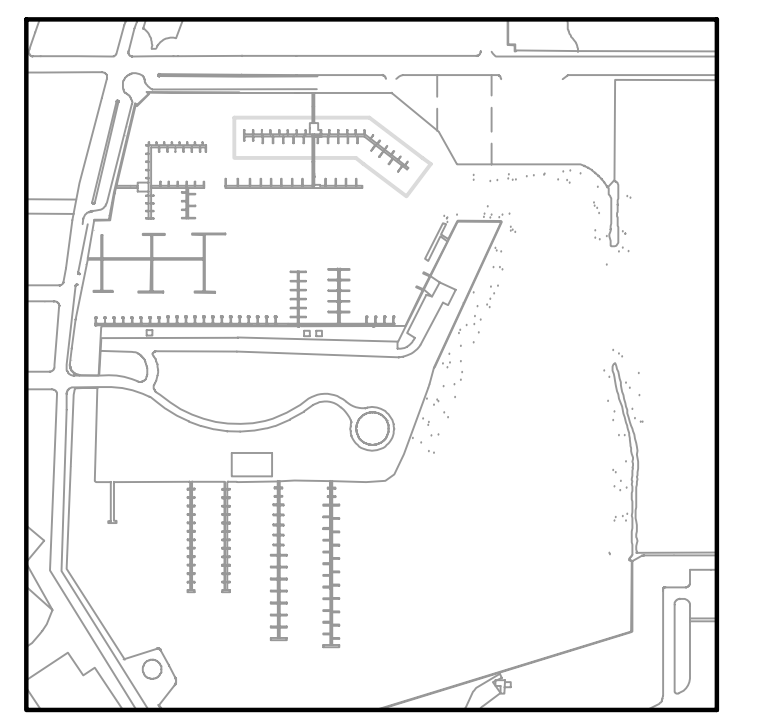
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REPAIR DECK

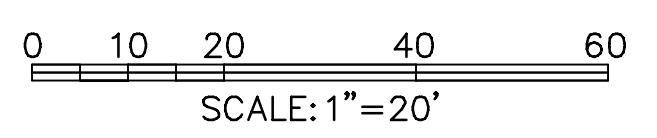
STRUCTURAL PLAN-NORTH DOCKS 1

1"=20'

X5 S7



KEY PLAN



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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
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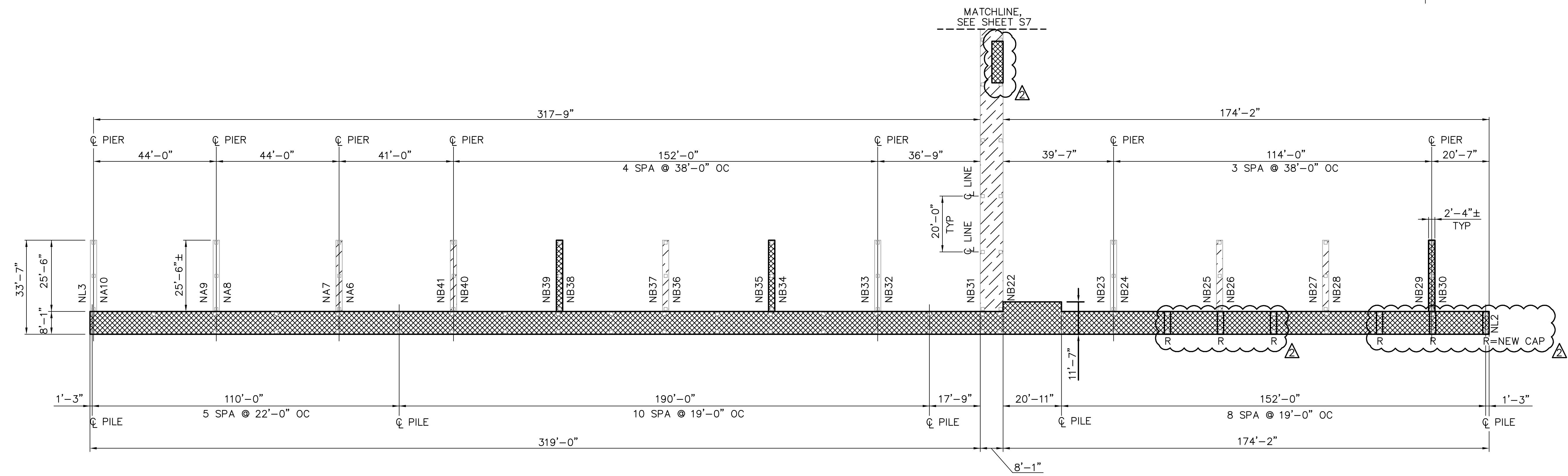
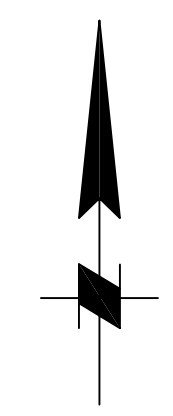
MOFFATT & NICHOL ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
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LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

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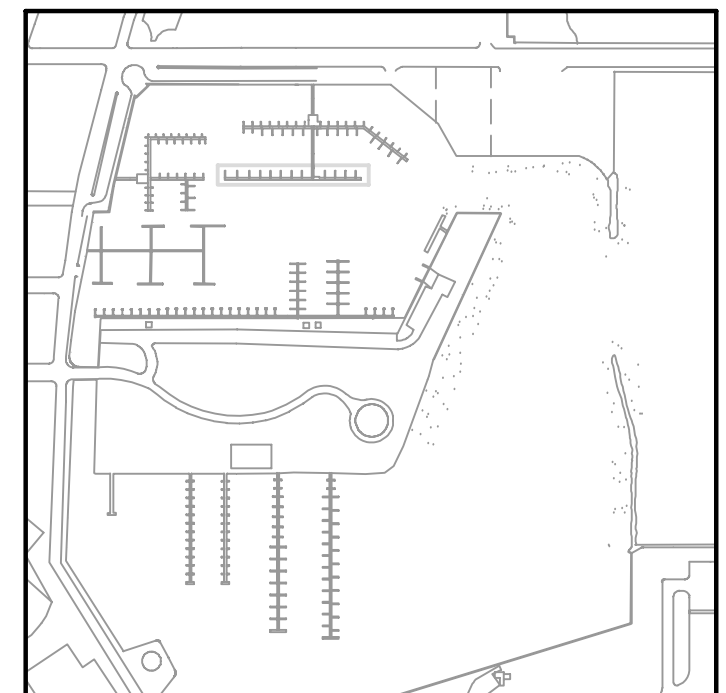
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN NORTH DOCKS
SHEET 1 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-22
SHEET No.: S7

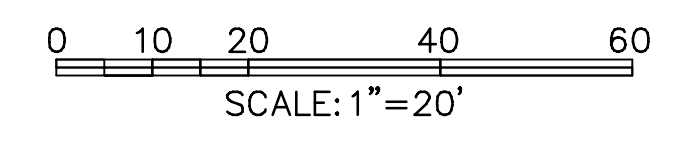


- NOTES:**
- FOR REPAIR SCHEDULE, SEE SHEETS S17 TO S19.
 - MOORING PILES NOT SHOWN FOR CLARITY.

- LEGEND**
- REPLACE DECK
 - REPAIR DECK



KEY PLAN



NOTE:
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STRUCTURAL PLAN-NORTH DOCKS 1
1"=20' X5 S8

DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 03/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				
			RECORD DRAWINGS	TV 07.27.07

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TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

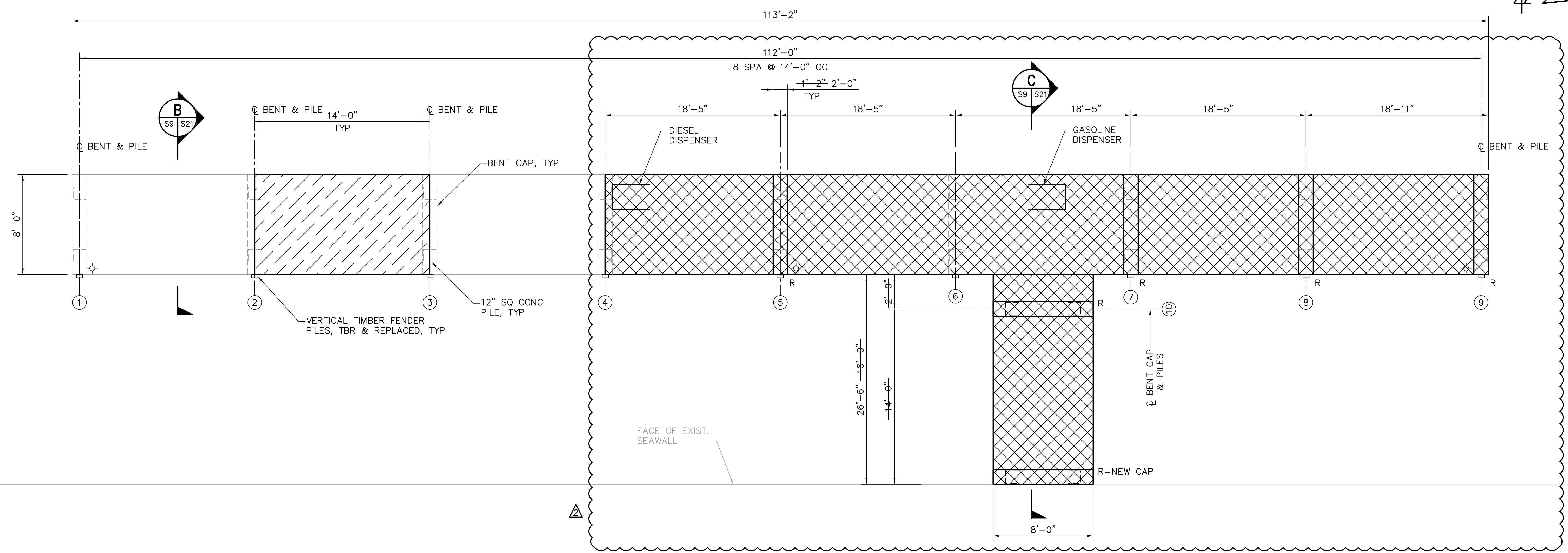
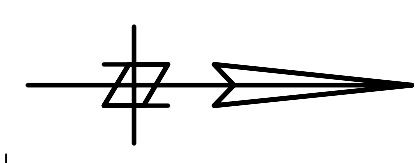
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN NORTH DOCKS
SHEET 2 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-23
SHEET No.: S8

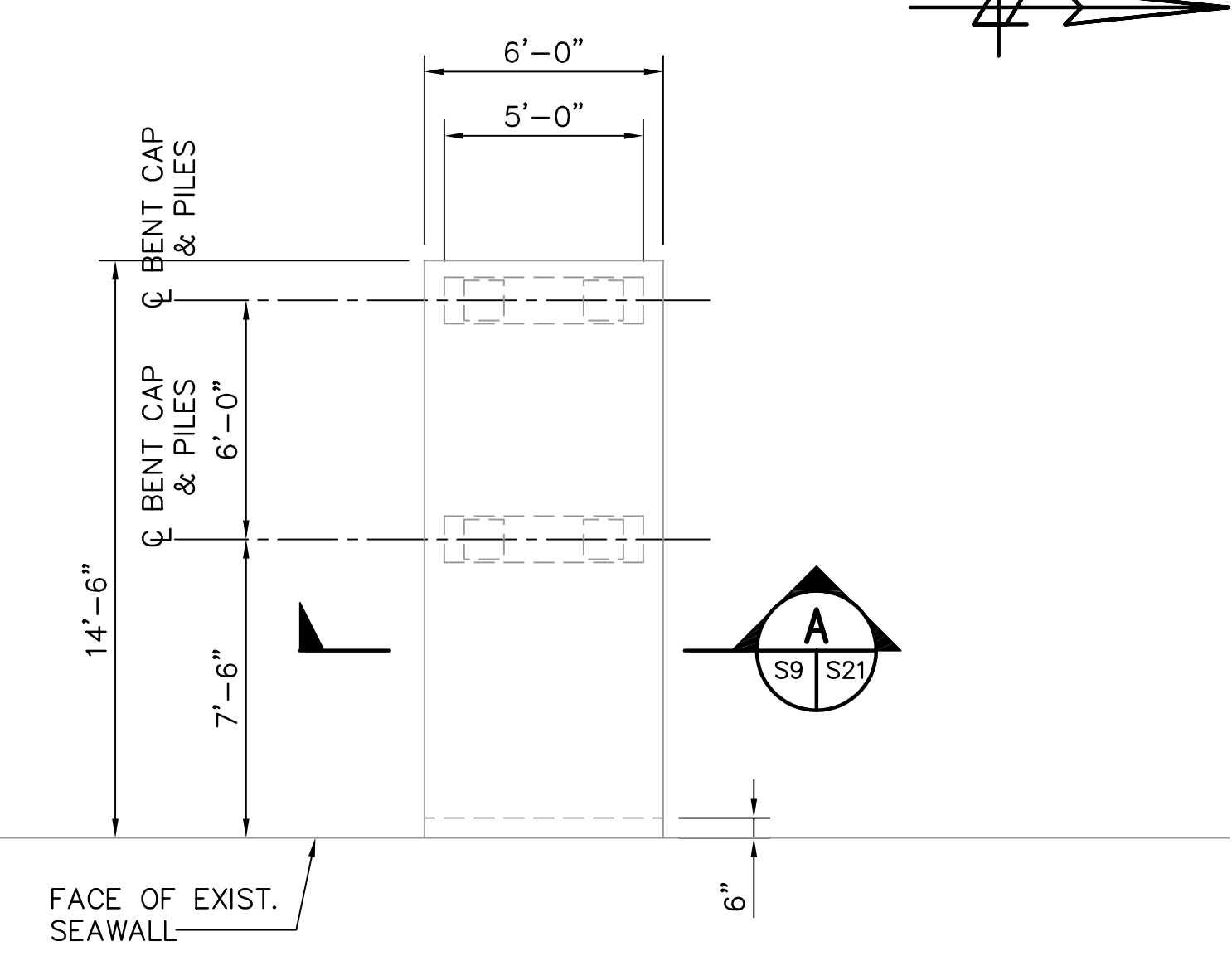
RECORD DRAWING
ISSUED 06 AUGUST 2007

JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

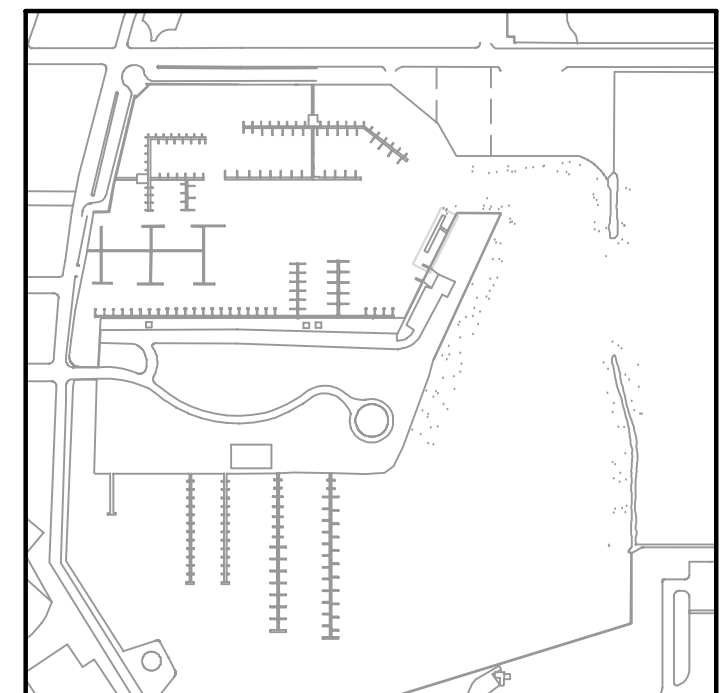
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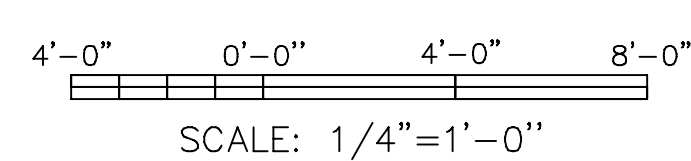
STRUCTURAL PLAN – FUEL DOCK 1
 1/4"=1'-0" X5 S9



STRUCTURAL PLAN – PUMP-OUT DOCK 2
 1/4"=1'-0" X5 S9



KEY PLAN



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LEGEND

	REPLACE DECK
	REPAIR DECK

- NOTES:**
- FOR REPAIR SCHEDULE, SEE SHEET S21.
 - MOORING PILES NOT SHOWN FOR CLARITY.

NOTE:
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 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 06 AUGUST 2007

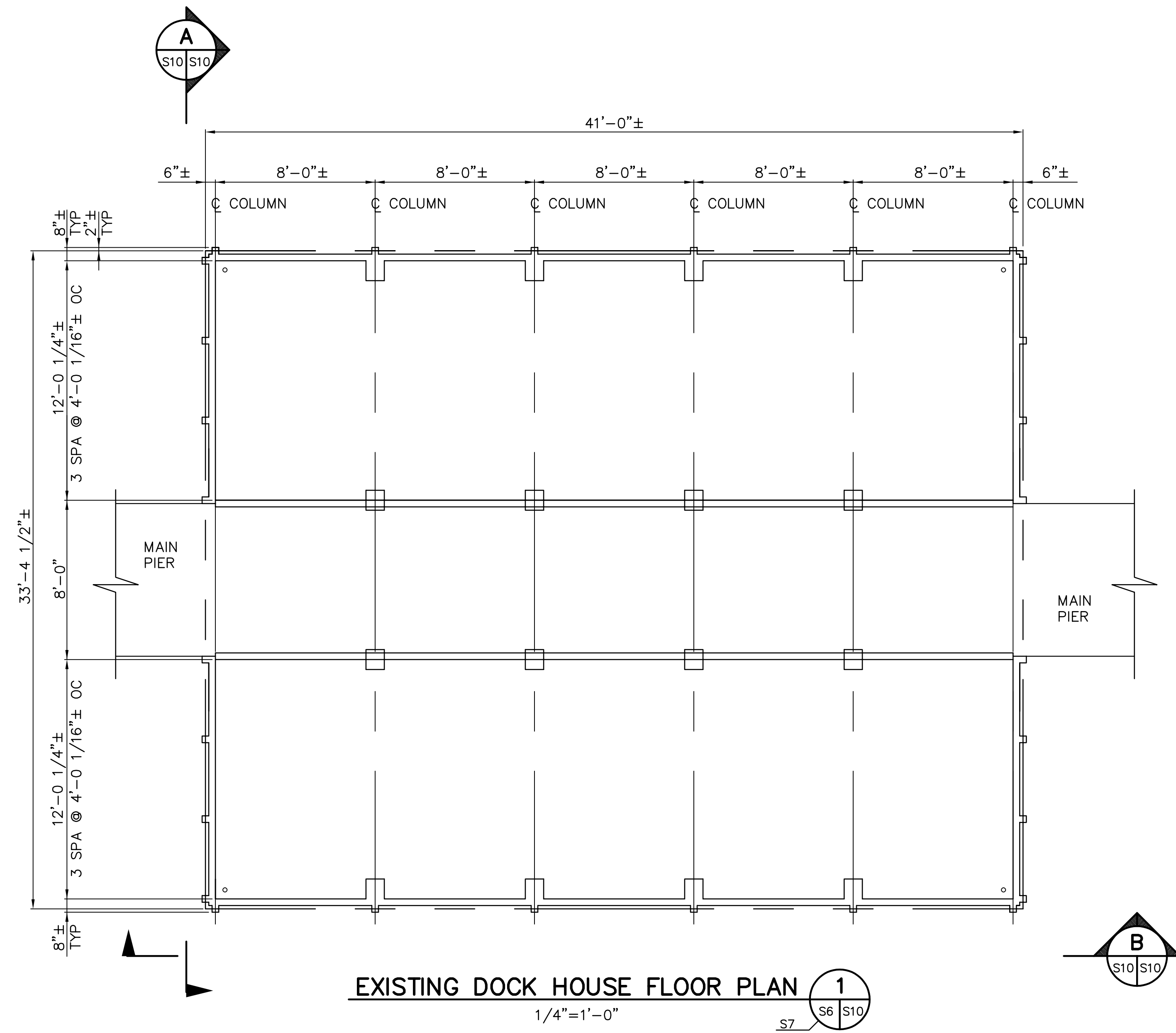
DESIGNED BY: JAM	DATE: 05/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 05/04			
CHECKED BY: JDM	DATE: 05/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				
RECORD DRAWINGS			TV	07.27.07

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 ENGINEERS
 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
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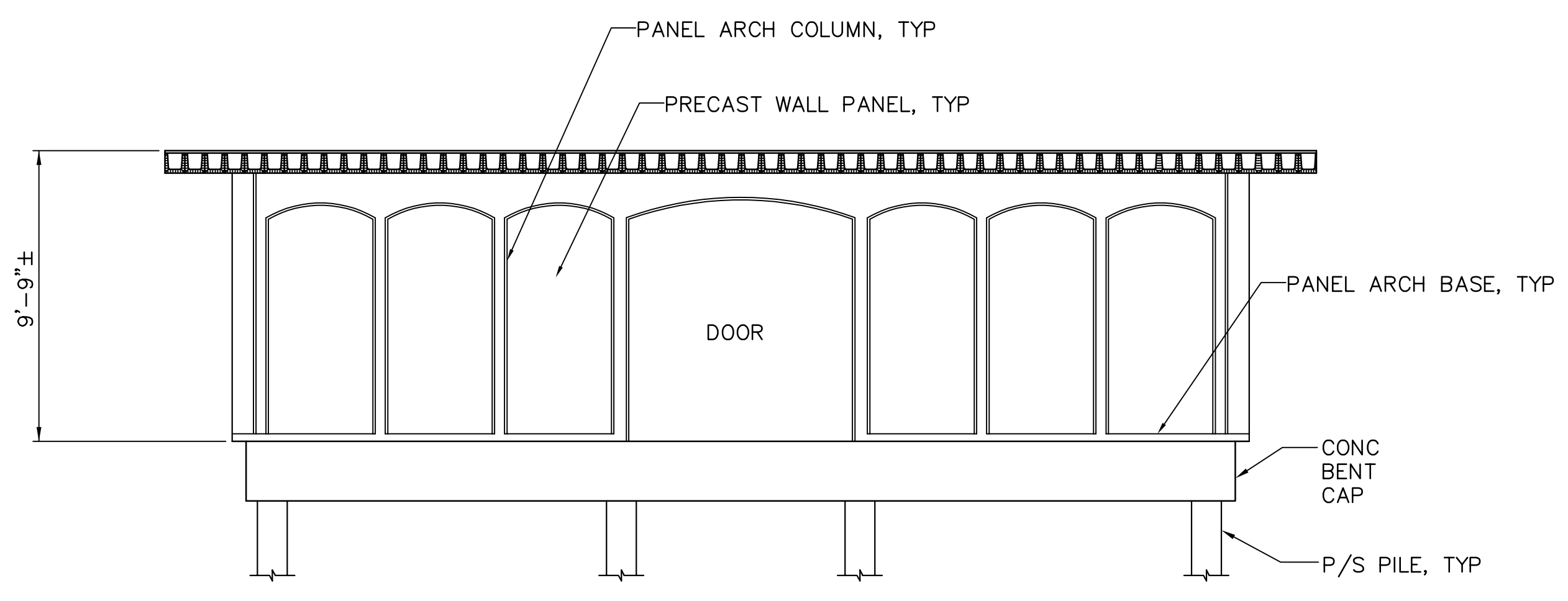
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL PLAN
FUEL & PUMP-OUT DOCKS

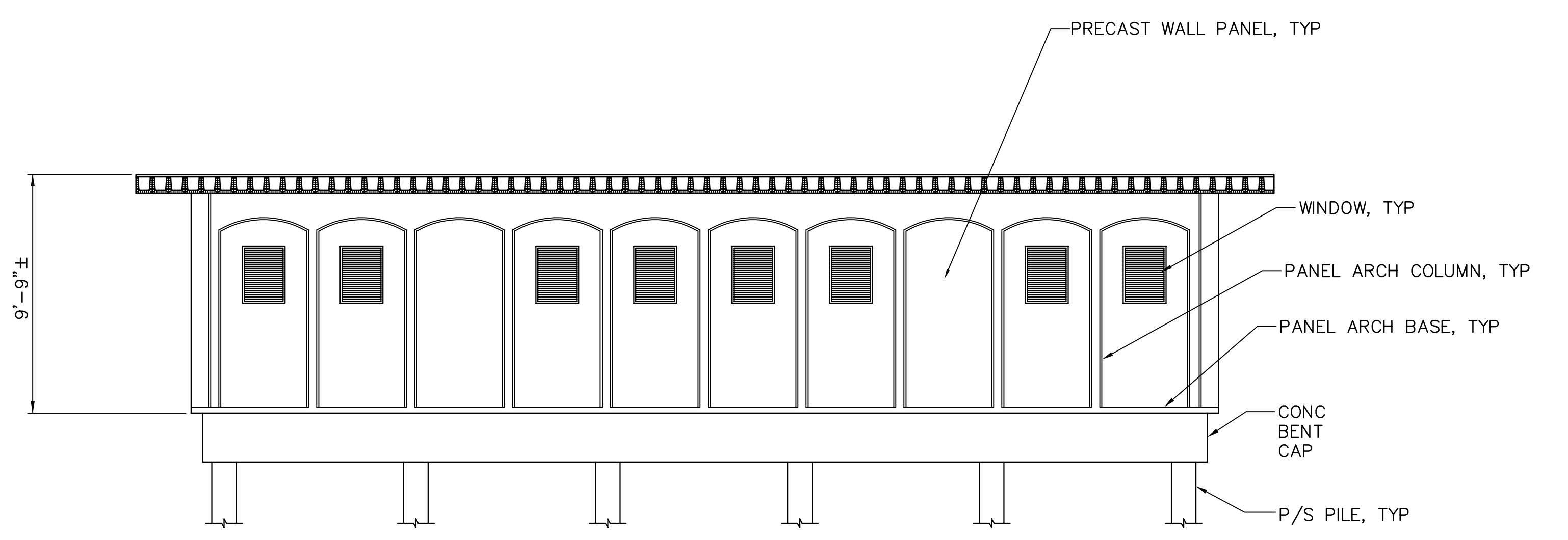
DATE: 06-24-05
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 DRAWING No.: 10175-24
 SHEET No.: **S9**



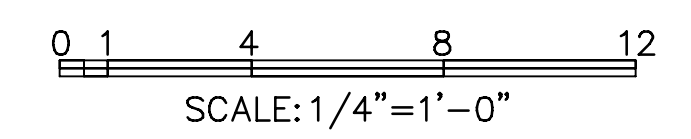
EXISTING DOCK HOUSE FLOOR PLAN
1/4"=1'-0"
S7 S6 S10



EXISTING DOCK HOUSE—FRONT ELEVATION
1/4"=1'-0"
S10 S10



EXISTING DOCK HOUSE—SIDE ELEVATION
1/4"=1'-0"
S10 S10



NOTE:
1. FOR REPAIR SCHEDULES
SEE SHEET S19.

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

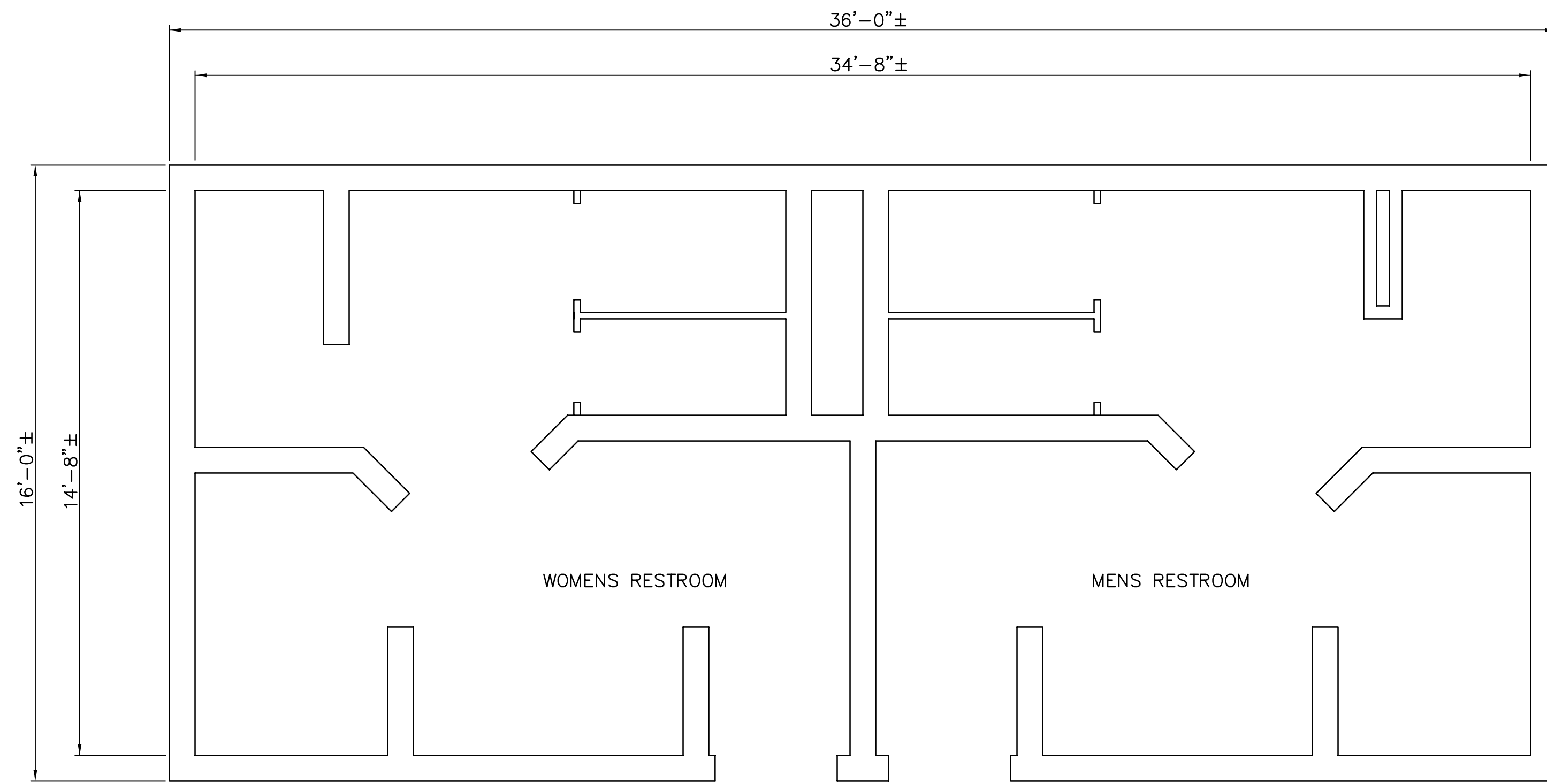
DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

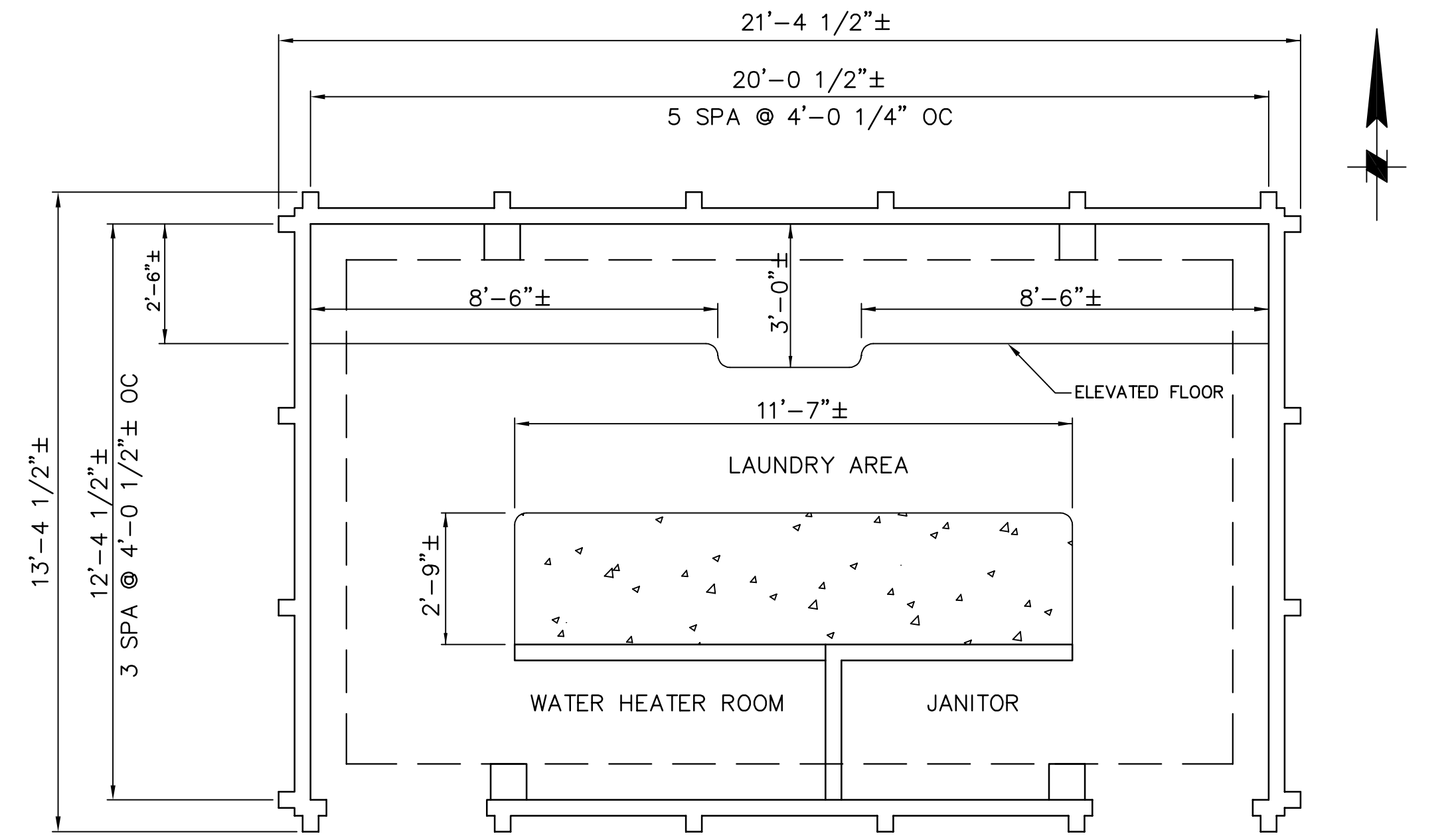
ENGINEERING, STORMWATER, &
TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DOCK HOUSES PLAN,
ELEVATION AND SECTIONS

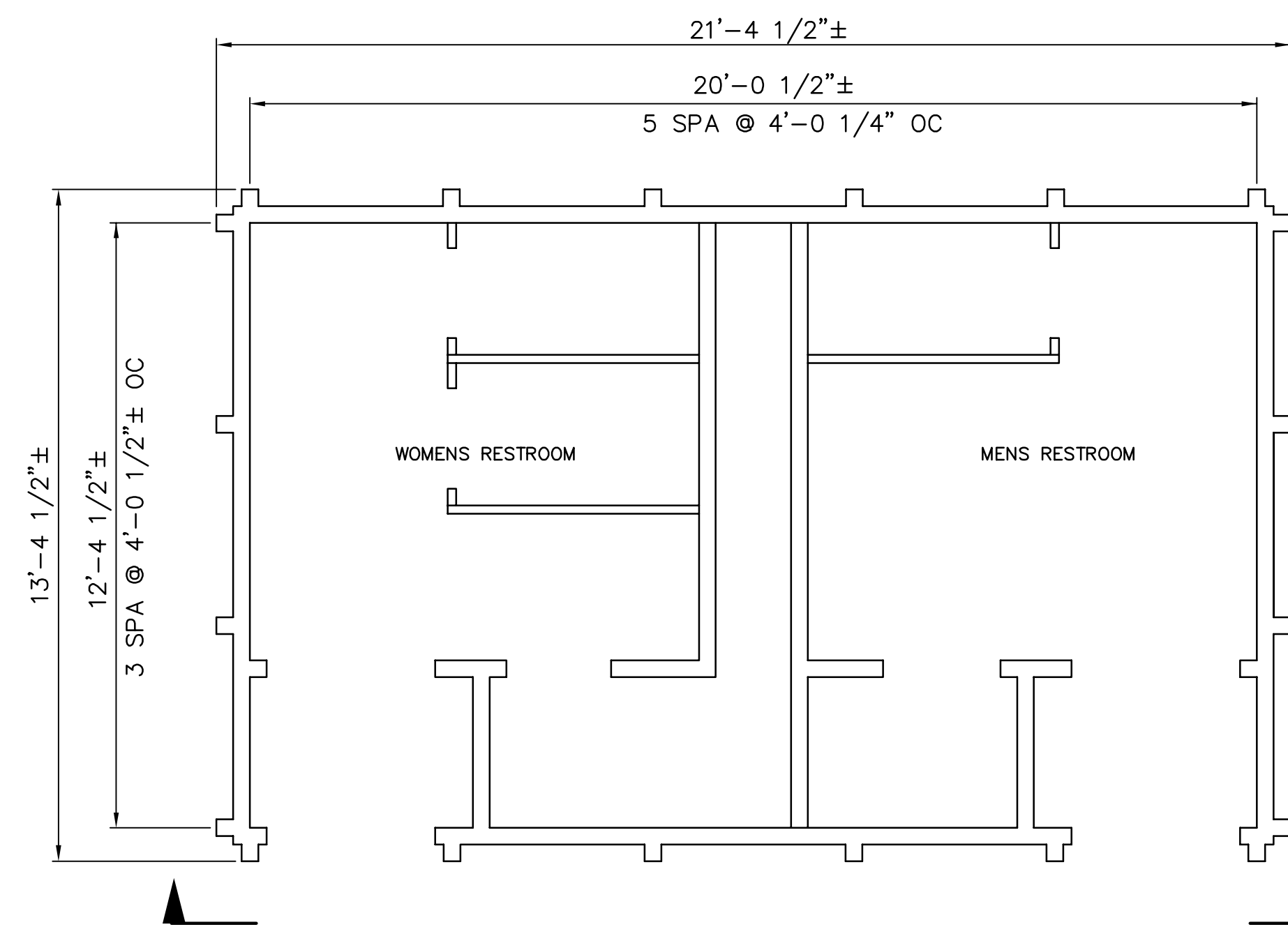
DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-25
SHEET No.: **S10**



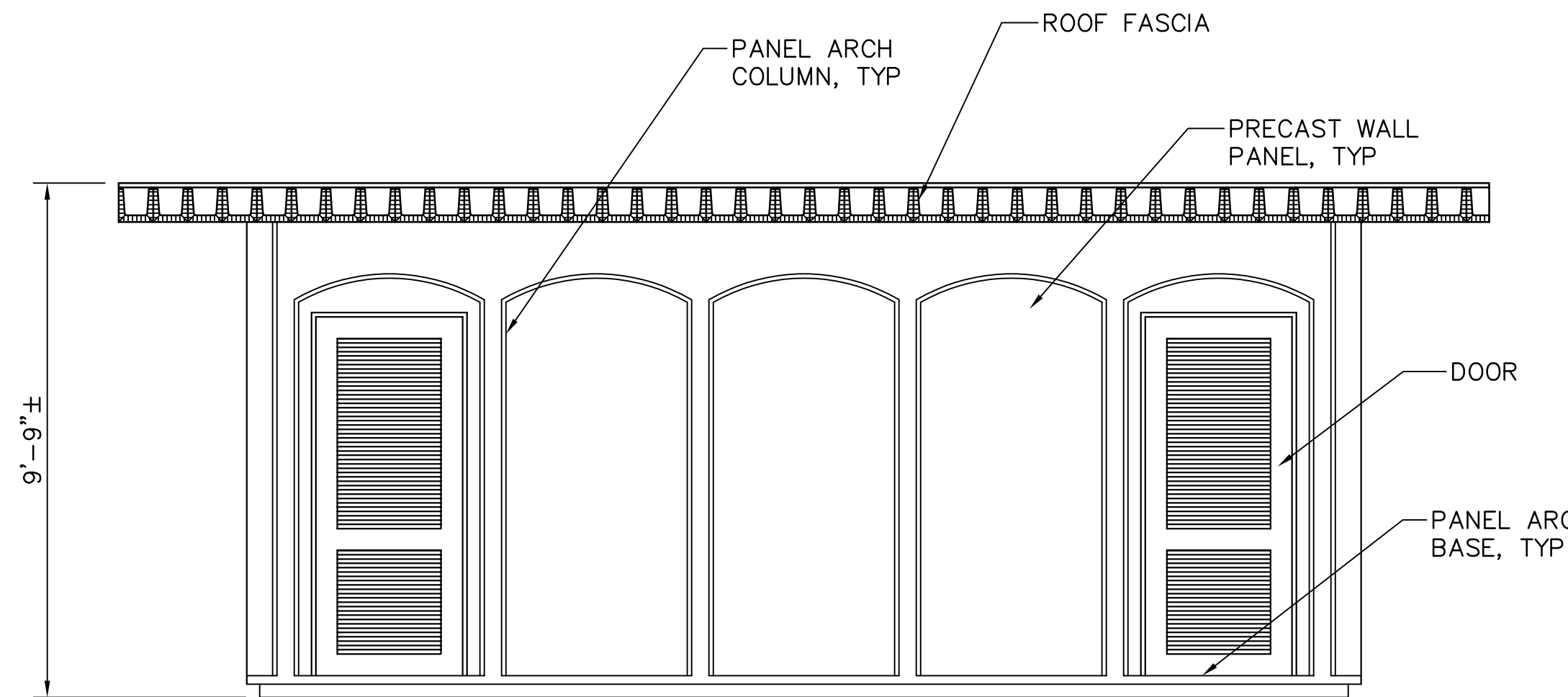
EXISTING SC RESTROOM-FLOOR PLAN 1
3/8"=1'-0"



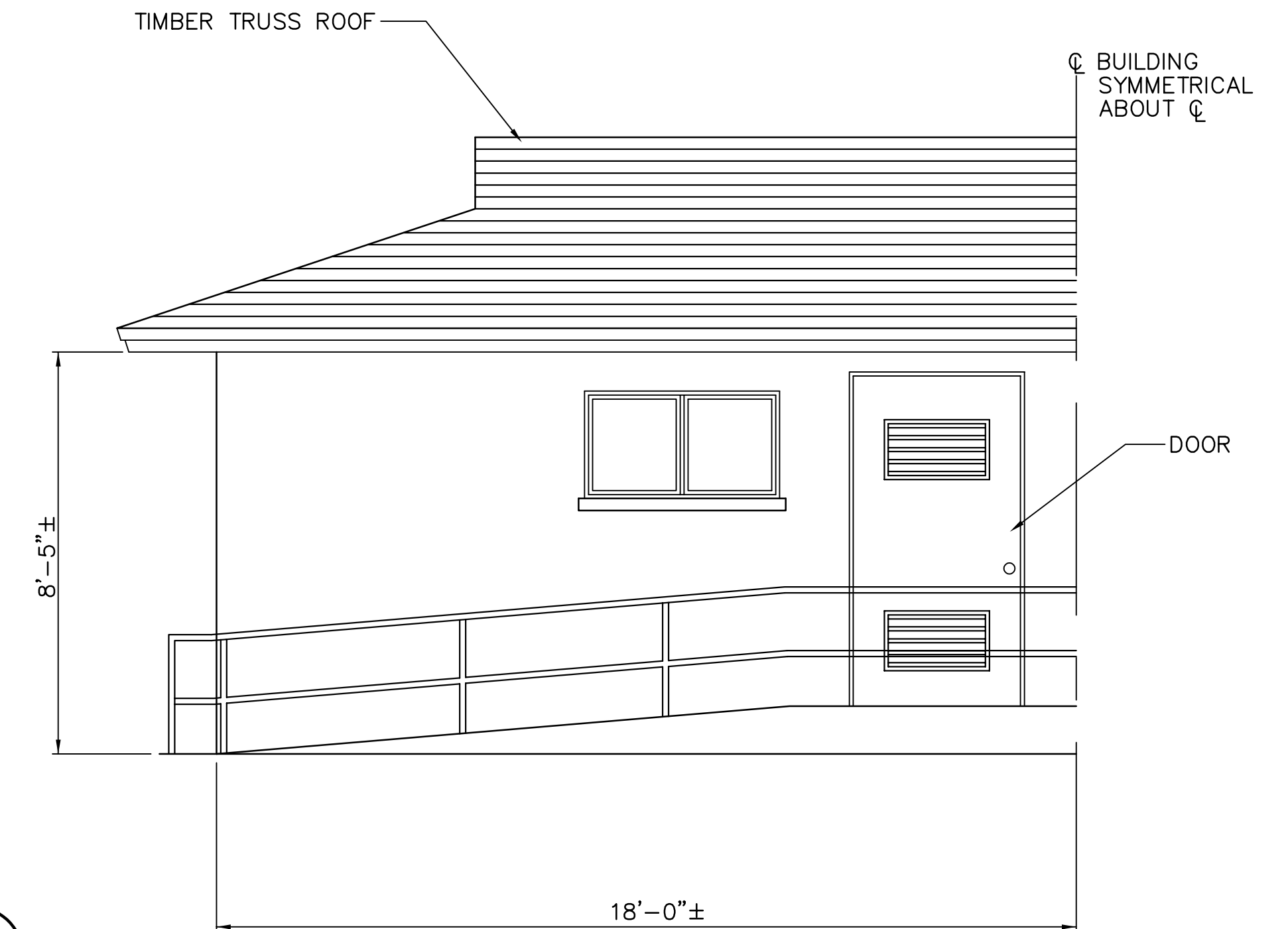
EXISTING LAUNDRY-FLOOR PLAN 2
3/8"=1'-0"



EXISTING SY/SZ RESTROOM-FLOOR PLAN 3
1/2"=1'-0"



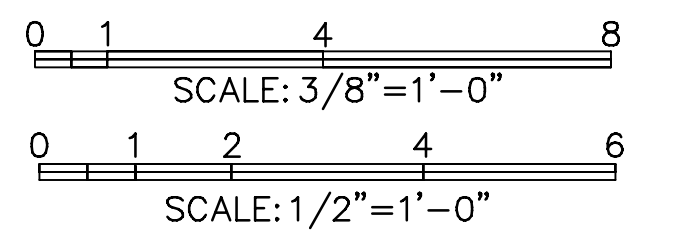
EXISTING SY/SZ RESTROOM AND LAUNDRY BUILDING-NORTH ELEVATION A
3/8"=1'-0"



EXISTING SC RESTROOM-ELEVATION B
3/8"=1'-0"

NOTE:
1. FOR REPAIR SCHEDULES SEE SHEET S19.

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

F:\17 Aug 2007 - 11:48am F:\6807-03\cadd\Submittals\2007-06-14 As Built\4817-14_S11.dwg tvaldez

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

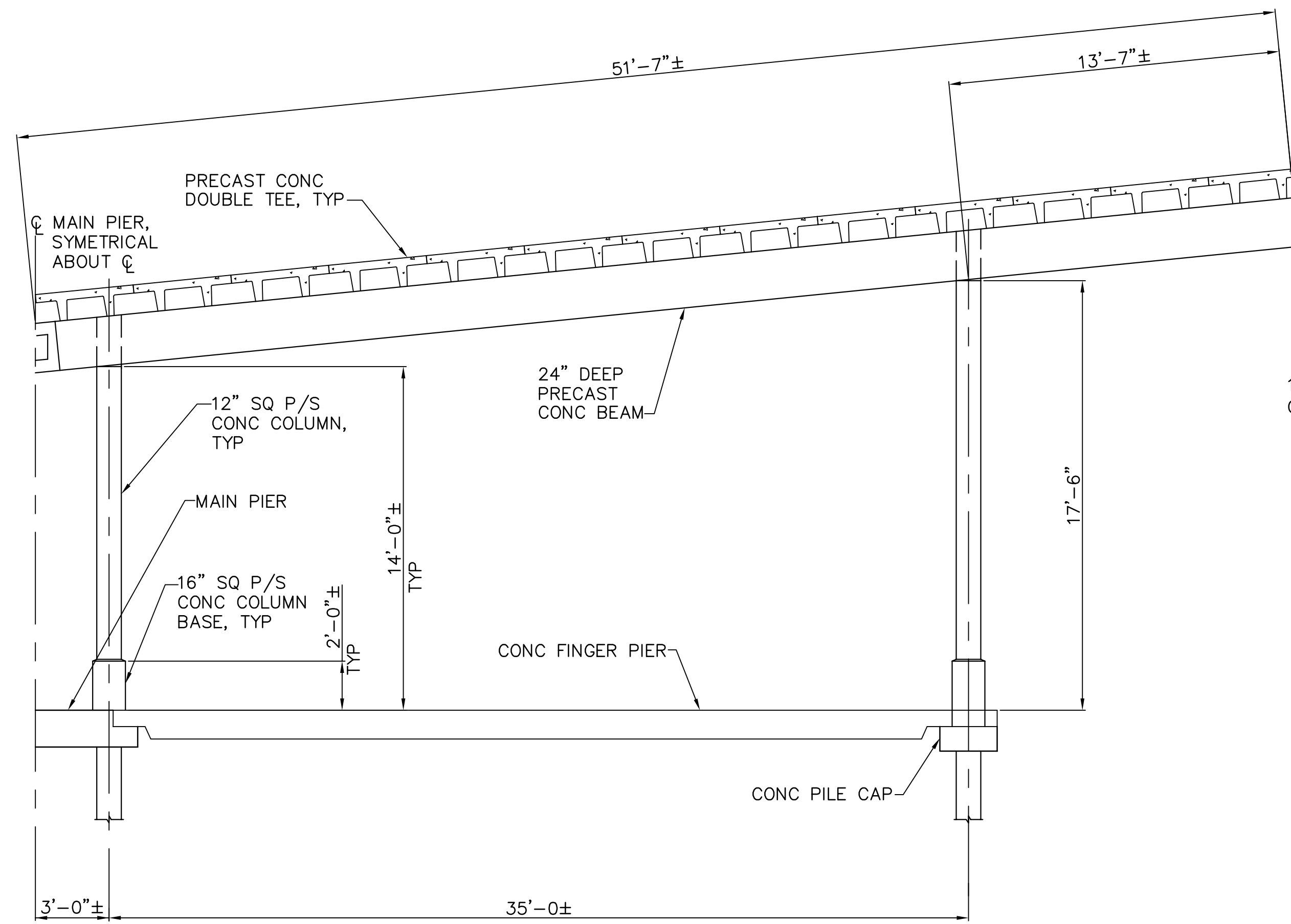
DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

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ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

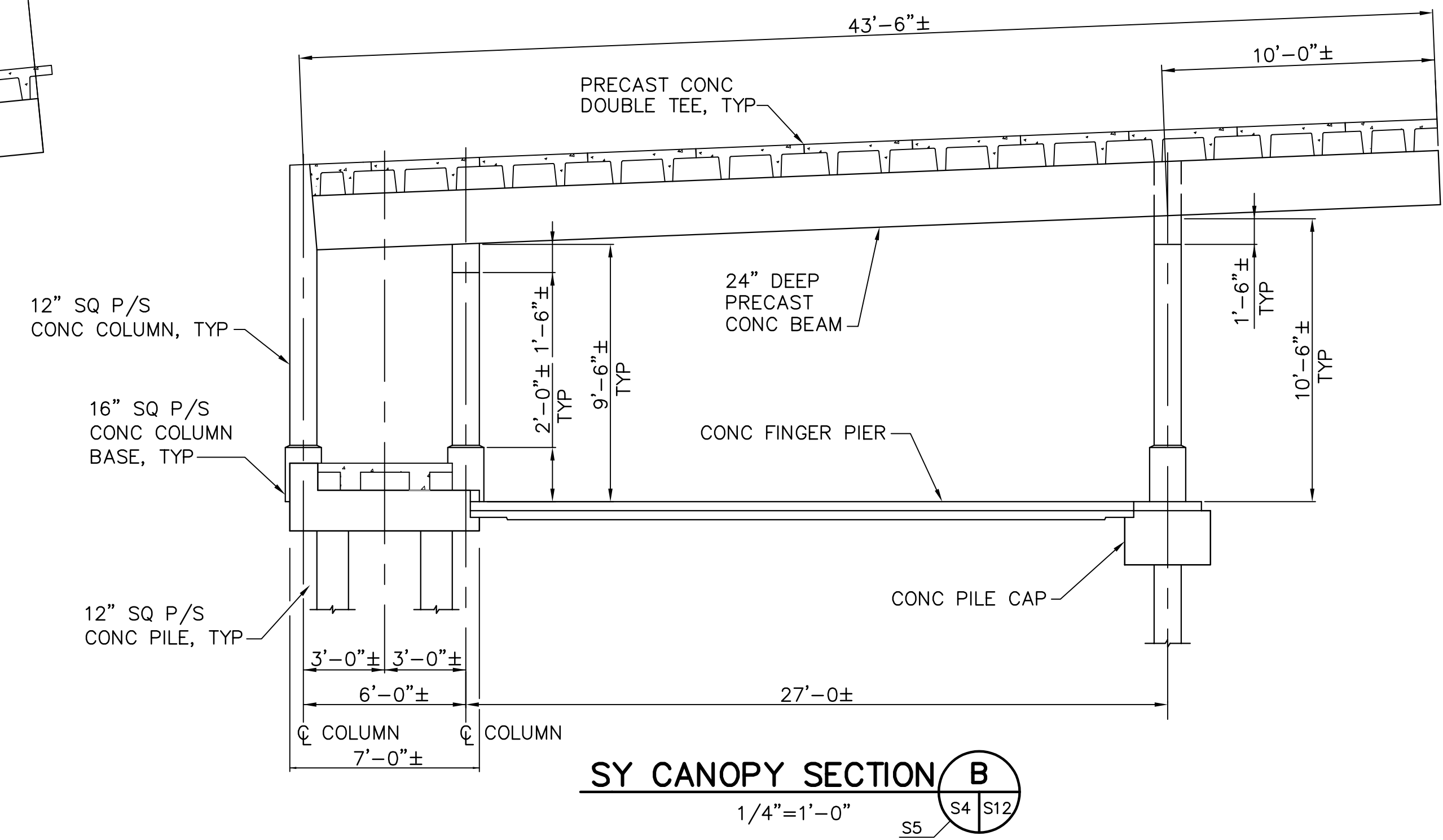
APPROVED BY: [Signature]
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
CENTRAL DOCKS LANDSIDE BUILDINGS
PLAN, ELEVATION & SECTION

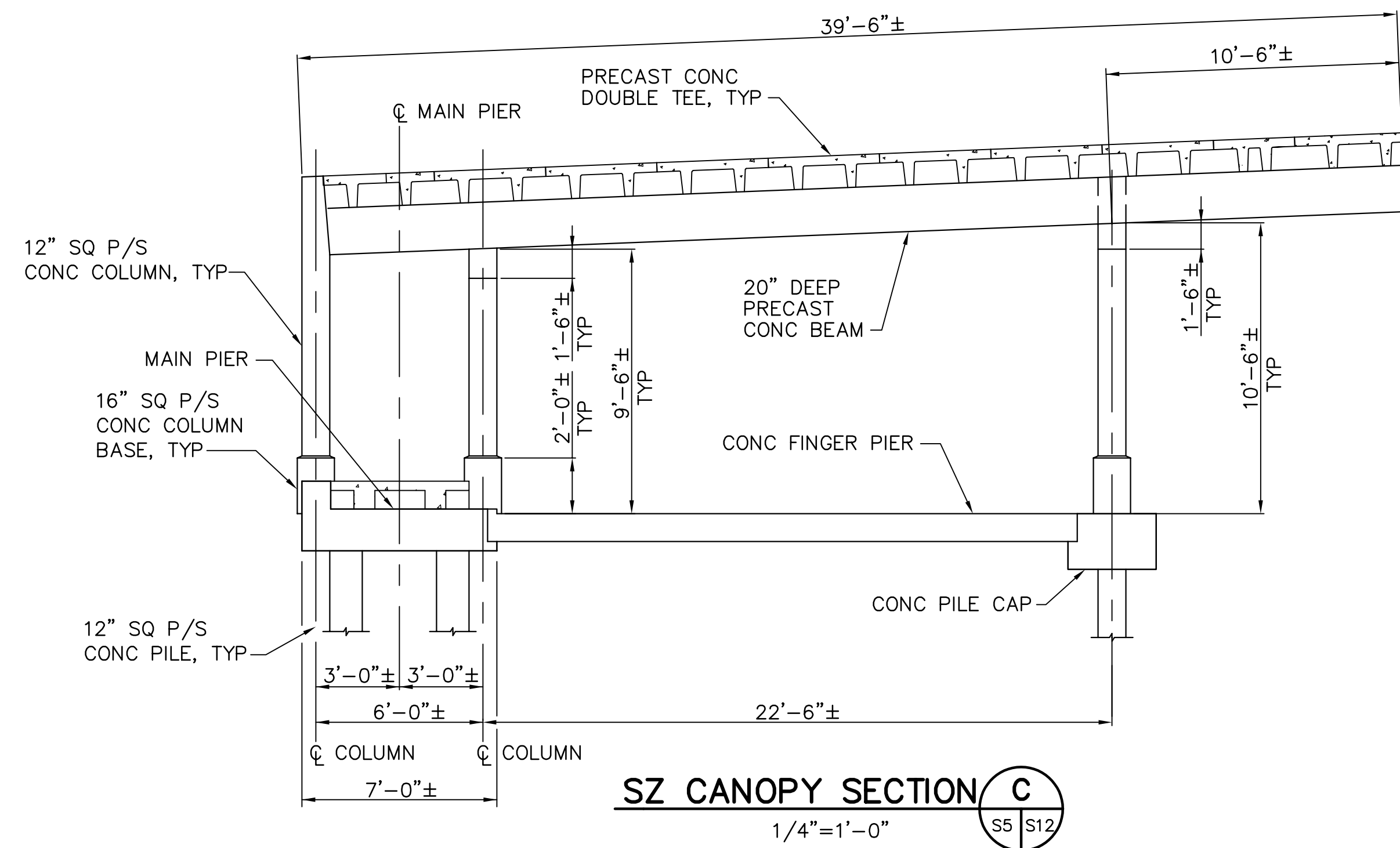
DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-26
SHEET No.: **S11**



SX CANOPY SECTION A
1/4"=1'-0" S4 S12



SY CANOPY SECTION B
1/4"=1'-0" S5 S4 S12



SZ CANOPY SECTION C
1/4"=1'-0" S5 S12

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

NOTE:
1. FOR REPAIR SCHEDULES SEE SHEET S20.

0 1 4 8 12
SCALE: 1/4"=1'-0"

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JAM DATE: 01/04
DRAWN BY: EGW DATE: 02/04
CHECKED BY: JDM DATE: 02/04
FIELD BOOK No. PAGE THRU
BM No. EL.
LOCATION:

REVISIONS	BY	DATE

MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

APPROVED BY: [Signature]
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

CENTRAL DOCKS
CANOPY SECTIONS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-27
SHEET No.: **S12**

SOUTH DOCKS REPAIR SCHEDULE SOUTH DOCKS PIER NO. 3

Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (ft), W (ft), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail. Includes summary rows for DECK REPAIR, STEP REPAIR, CAP REPAIR, and PILE JACKETS.

Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (ft), W (ft), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail. Continuation of repair schedule for Pier No. 4.

NOTE: FOR NOTES AND IFCGND SFF SHFT S19

RECORD DRAWING ISSUED 09 AUGUST 2007

DESIGNED BY: JAM DATE: 02/04 DRAWN BY: EGW DATE: 02/04 CHECKED BY: JDM DATE: 02/04 FIELD BOOK No. PAGE THRU EL. LOCATION:

Table with columns: REVISIONS, BY, DATE. Includes a 'RECORD DRAWINGS' stamp and date 'TV 07.27.07'.

MOFFATT & NICHOL ENGINEERS 1509 W. SWANN AVENUE, SUITE 225 TAMPA, FLORIDA 33606

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS STRUCTURAL REHABILITATION PROJECT NO. 01074-117 STRUCTURAL REPAIR SCHEDULE SHEET 2 OF 7

DATE: 06-24-05 SCALE: NONE DRAWING No.: 10175-29 SHEET No.: S14

SOUTH DOCKS REPAIR SCHEDULE SOUTH DOCKS PIER NO. 4

Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (ft), W (ft), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail. Continuation of repair schedule for Pier No. 4.

NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANTS DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

SOUTH DOCKS REPAIR SCHEDULE SOUTH DOCKS PIER NO. 4. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

SOUTH DOCKS SUMMARY. Table with columns: Item, Quantity, Unit, Remarks.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS MAIN WALKWAY. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS SUMMARY. Table with columns: Item, Quantity, Unit, Remarks.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS MAIN WALKWAY. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS MAIN WALKWAY. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS MAIN WALKWAY. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS MAIN WALKWAY. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS MAIN WALKWAY. Table with columns: Sheet No., Slip Nos., Pler, Face, Element, Deficiency, Qty, Dia. (in), L (in), W (in), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

NOTE: FOR NOTES AND LEGEND SEE SHEET S19.

RECORD DRAWING ISSUED 09 AUGUST 2007

DESIGNED BY: JAM DATE: 02/04 DRAWN BY: EGW DATE: 02/04 CHECKED BY: JDM DATE: 02/04 FIELD BOOK No. PAGE THRU BM No. LOCATION: EL.

REVISIONS BY DATE TV 07.27.07

MOFFATT & NICHOL ENGINEERS 1509 W. SWANN AVENUE, SUITE 225 TAMPA, FLORIDA 33606 813-258-8818 LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT CITY OF ST. PETERSBURG APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS STRUCTURAL REHABILITATION PROJECT NO. 01074-117 STRUCTURAL REPAIR SCHEDULE SHEET 3 OF 7

DATE: 06-24-05 SCALE: NONE DRAWING No.: 10175-30 SHEET No.: S15

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, APPENDIX, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANTS' DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

CENTRAL DOCKS REPAIR SCHEDULE CENTRAL DOCKS SY WEST DOCK Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS SC DOCK Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS SX DOCK Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS SY EAST DOCK Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

FOR NOTES AND LEGEND SEE SHEET S19. NOTE: DESIGNED BY: JAM DATE: 02/04 DRAWN BY: EGW DATE: 02/04 CHECKED BY: JDM DATE: 02/04 FIELD BOOK No. PAGE THRU BM, NO. EL. LOCATION: TV 07.27.07

CENTRAL DOCKS SX DOCK Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS SY EAST DOCK Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf., Min. Repair Volume (cf), Remarks, Repair Detail.

CENTRAL DOCKS SUMMARY Table with columns: Category, Value.

WEST DOCKS REPAIR SCHEDULE Table with columns: Sheet No., Slip Nos., Pier, Face, Element, Deficiency, Qty, Dia. (n), L (n), W (n), Exp. Reinf. (X), Min. Repair Volume (cf), Remarks, Repair Detail.

NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")

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RECORD DRAWING ISSUED 09 AUGUST 2007. MOFFATT & NICHOL ENGINEERS. MUNICIPAL MARINA SOUTH & CENTRAL BASINS STRUCTURAL REHABILITATION PROJECT NO. 01074-117 STRUCTURAL REPAIR SCHEDULE SHEET 4 OF 7. DATE: 06-24-05 SCALE: NONE DRAWING No.: 10175-31 SHEET No.: S16

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, APPENDIX, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANTS DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

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WEST DOCKS REPAIR SCHEDULE table with columns: Sheet No., Slip Nos., Pier, Location, Element, Deficiency Qty, Dia., L, W, Exp. Reinf. (X), Min. Repair Volume (cf), Remarks, Repair Detail.

WEST DOCKS REPAIR SCHEDULE table with columns: Sheet No., Slip Nos., Pier, Location, Element, Deficiency Qty, Dia., L, W, Exp. Reinf. (X), Min. Repair Volume (cf), Remarks, Repair Detail.

NOTE: FOR NOTES AND LEGEND SEE SHEET S19.

NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE: 08/09/2007
FLORIDA REGISTERED PROFESSIONAL ENGINEER NO. 0048745

RECORD DRAWING ISSUED 09 AUGUST 2007

DESIGNED BY: JAM DATE: 02/04
DRAWN BY: EGW DATE: 02/04
CHECKED BY: JDM DATE: 02/04
FIELD BOOK No. PAGE THRU
BM No. EL.
LOCATION:

REVISIONS BY DATE
RECORD DRAWINGS TV 07.27.07

MOFFATT & NICHOL ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
913-258-8918
LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
STRUCTURAL REPAIR SCHEDULE
SHEET 5 OF 7

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-32
SHEET No.: S17

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANTS DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

NORTH DOCKS REPAIR SCHEDULE table with columns: Sheet No., Slip Noe, Pier, Face, Element, Deficiency, Qty, Dis., L, W, Exp. Rept. (X) Min. Repair Volume (cu ft), Remarks, Repair Detail. Includes detailed repair notes and specific measurements for various dock structures.

NORTH DOCKS REPAIR SCHEDULE table with columns: Sheet No., Slip Noe, Pier, Face, Element, Deficiency, Qty, Dis., L, W, Exp. Rept. (X) Min. Repair Volume (cu ft), Remarks, Repair Detail. Includes detailed repair notes and specific measurements for various dock structures.

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO DRAWINGS OR DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

NOTE: FOR NOTES AND LEGEND SEE SHEET S19.

RECORD DRAWING ISSUED 09 AUGUST 2007

DESIGNED BY: JAM DATE: 02/04
DRAWN BY: EGW DATE: 02/04
CHECKED BY: JDM DATE: 02/04
FIELD BOOK No. PAGE THRU
BM No. EL.
LOCATION:
REVISIONS BY DATE



APPROVED BY: [Signature]

MUNICIPAL MARINA SOUTH & CENTRAL BASINS STRUCTURAL REHABILITATION PROJECT NO. 01074-117 SHEET 6 OF 7

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-33
SHEET No.: S18

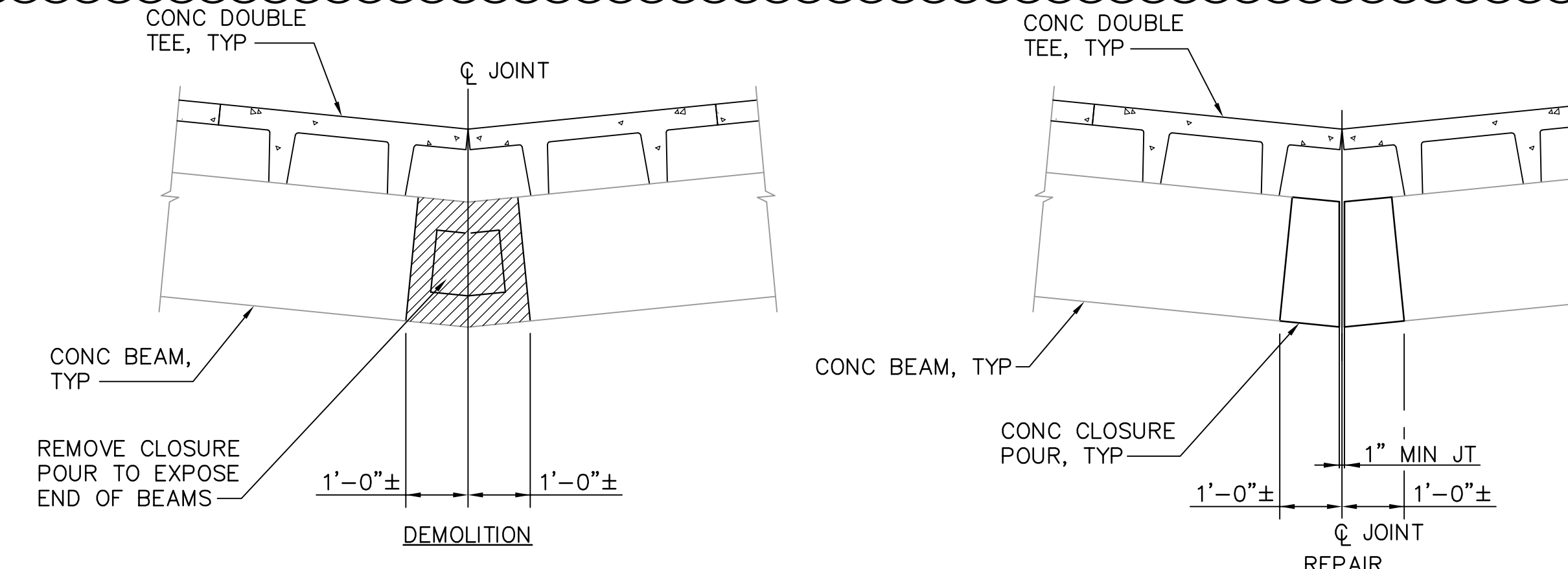
Table for SY East Dock canopy repair schedule. Includes description of precast prestressed double tees, general deficiencies table, and a detailed location/face/element/deficiency table with dimensions and repair details.

Table for SX Dock canopy repair schedule. Includes description of precast prestressed double tees, general deficiencies table, and a detailed location/face/element/deficiency table with dimensions and repair details.

Table for SY West Dock canopy repair schedule. Includes description of precast prestressed double tees, general deficiencies table, and a detailed location/face/element/deficiency table with dimensions and repair details.

Table for SZ Dock canopy repair schedule. Includes description of precast prestressed double tees, general deficiencies table, and a detailed location/face/element/deficiency table with dimensions and repair details.

DELETED FROM CONTRACT
DELETED FROM CONTRACT
DELETED FROM CONTRACT
DELETED FROM CONTRACT



CANOPY CLOSURE POUR REPAIR DETAIL 2
NTS
S20/S20

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR...

RECORD DRAWING
ISSUED 09 AUGUST 2007

Table with columns for REVISIONS, BY, and DATE. Includes a record drawing stamp for TV 07.27.07.

MOFFATT & NICHOL ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

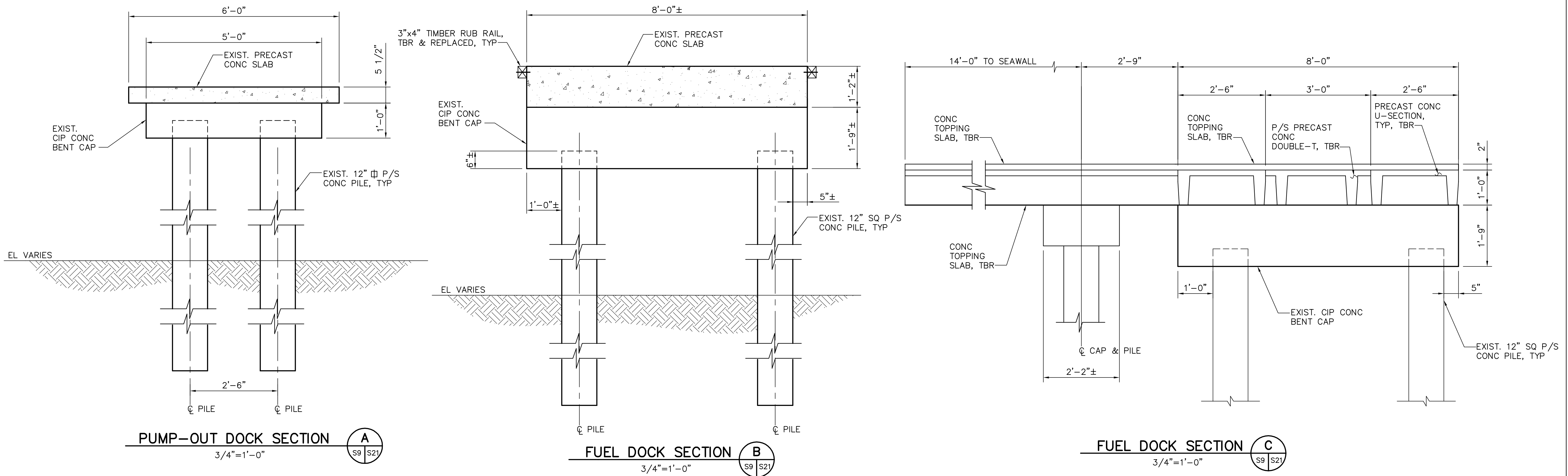
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

CANOPY REPAIR DETAILS

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-35
SHEET No.: S20

F:\17 Aug 2007 - 12:56pm F:\5607-03\cadd\Submittals\2007-06-14 As Bult\4817-14_S20.dwg

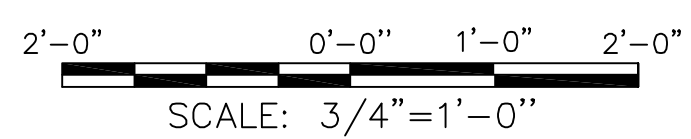


Sheet No.	Bent	Face	Element	Deficiency	Quantity	L (in)	W (in)	D (in)	Exp. Reinf	Min. Repair Volume (cf)	Remarks	Repair Detail
S9	2	All	cap	ISP	1	96	14		Rust	20.0 - 27.0	CR between build-up & original cap, ISP on NE corner, CR full perimeter 4-6" from base 1/8-1/4" wide with rust stains	3/S23
S9	3	All	cap	ISP	1	96	14		Rust	20.0 - 27.0	CR between build-up & original cap, CR full perimeter 4-6" from base 1/8-1/4" wide with rust stains	3/S23
S9	4	All	cap	ISP	1	96	14			20.0 - 27.0	Full perimeter 4-6" from base, 1/8-1/4" wide	3/S23
S9	5	All	cap	ISP REPLACE	1	96	14			20.0	Full perimeter 4-6" from base, 1/8-1/4" wide	3/S23
S9	6	W	cap	CR	1	14 20	14 10		Rust	0.5 - 0.6	Larger cap, previously encased	3/S22
S9	7	All	cap	ISP/HCB REPLACE	1	96	14		Rust	20.0	Full perimeter 4-6" from base, 1/8-1/4" wide, honeycombing on face	3/S23
S9	8	All	cap	ISP/HCB REPLACE	1	96	14		Rust	20.0	Full perimeter 4-6" from base, 1/8-1/4" wide, honeycombing on face	3/S23
S9	9	All	cap	ISP/HCB REPLACE	1	96	14		Rust	20.0	Full perimeter 4-6" from base, 1/8-1/4" wide, honeycombing on face	3/S23
S9	10	All	cap	ISP/DLM REPLACE	1	96	29		Rust	20.0	Larger cap, delaminated on S face, crack 4-6" from base 1/8-1/4" wide on E & W faces	3/S23
S9	seawall	W	cap	encase REPLACE	1	96	14			20.0	Cap at seawall in poor condition, built into seawall	3/S23
S9	2/3	Bottom	deck	SS	10	23	2	1/2	X	1.0 - 2.3	Surface spalls w/ exposed rebar	2/S22
S9	2/3	Top	deck	ISP	1	24 98	4 15			0.5 - 4.2	Crack behind fender pile	3/S22
S9	4/5	Bottom	deck	Replace	1	168	96	14	X	130.7	Exposed rebar on all ribs	3/S24
S9	5/6	Bottom	deck	Replace	1	168	96	14	X	130.7	Exposed rebar on all ribs	3/S24
S9	6/7	Bottom	deck	Replace	1	168	96	14	X	130.7	Previously repaired, Exposed rebar on all ribs	3/S24
S9	7/8	Bottom	deck	Replace	1	168	96	14	X	130.7	Exposed rebar on all ribs, imminent spall at north end w/ exposed rebar	3/S24
S9	8/9	Bottom	deck	Replace	1	168	96	14	X	130.7	Exposed rebar on all ribs, spall w/ exposed rebar on middle 4 ribs, imminent spall on all ribs at north end	3/S24
S9	6/7/10	Bottom	deck	Replace	1	40	96	14	X	31.1	Exposed rebar on all ribs	3/S24
S9	10/seawall	Bottom	deck	Replace	1	168	96	14	X	130.7	Exposed rebar on all ribs, spalls w/ exposed rebar at seawall on all ribs	3/S24
TOTAL DECK REPAIR - FUEL DOCK										1.5	6.7	CF
TOTAL DECK REPLACEMENT - FUEL DOCK										815.3	81.0	CF
TOTAL CAP REPAIR - FUEL DOCK										0.5	0.6	CF
TOTAL CAP ENCASEMENT - FUEL DOCK										187.2		CF
TOTAL CAP REPLACEMENT - FUEL DOCK										6		EA

PUMP-OUT DOCK REPAIR SCHEDULE

Sheet No.	Bent	Face	Element	Deficiency	Quantity	L (in)	W (in)	Min. Repair Volume (cf)	Repair Detail
S9	1	All	cap	encase	1	60	14	9.2	3/S23
S9	2	All	cap	encase	1	60	14	9.2	3/S23
S9	1	All	pile (N)	jacket	1	12		N/A	4/S23
S9	1	All	pile (S)	jacket	1	12		N/A	4/S23
S9	2	All	pile (N)	jacket	1	12		N/A	4/S23
S9	2	All	pile (S)	jacket	1	12		N/A	4/S23
TOTAL CAP ENCASEMENT - PUMP-OUT DOCK								18.4	
TOTAL PILE JACKETS - PUMP-OUT DOCK								4.0	

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NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

DESIGNED BY: JAM	DATE: 05/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 05/04			
CHECKED BY: JDM	DATE: 05/04			
FIELD BOOK No.	PAGE			
BM No.	THRU			
LOCATION:	EL.			
RECORD DRAWINGS			TV	07.27.07

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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

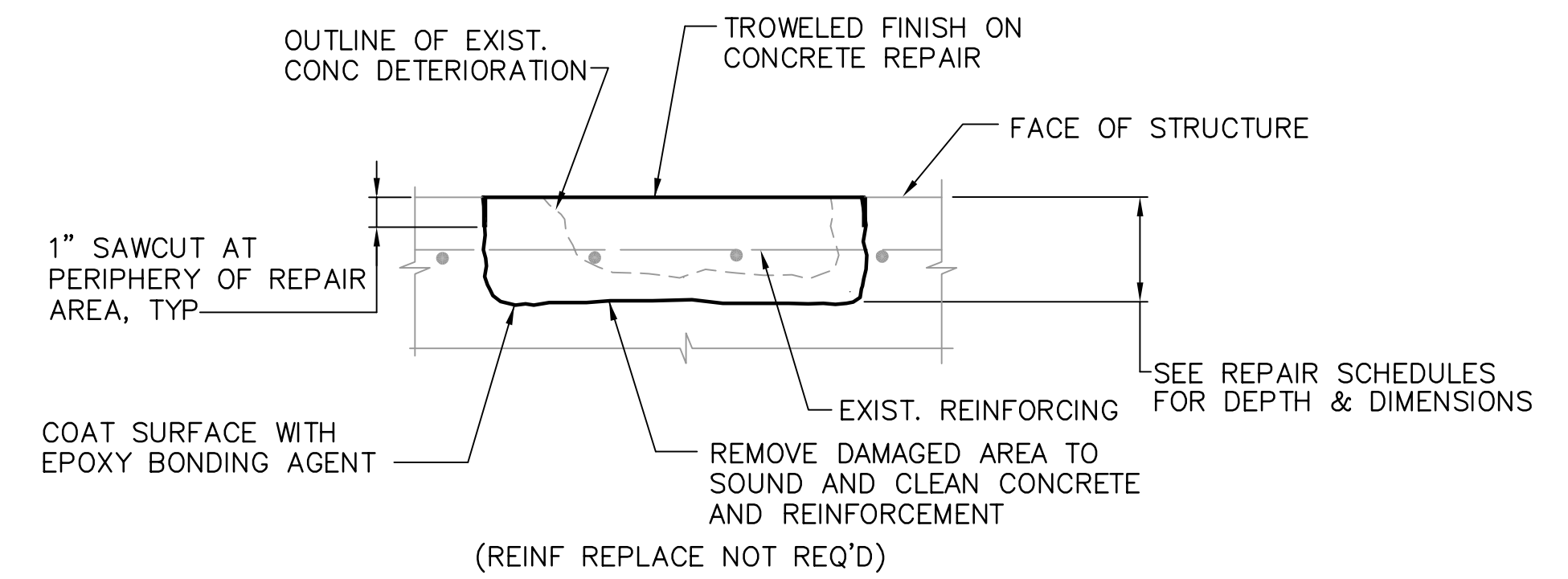
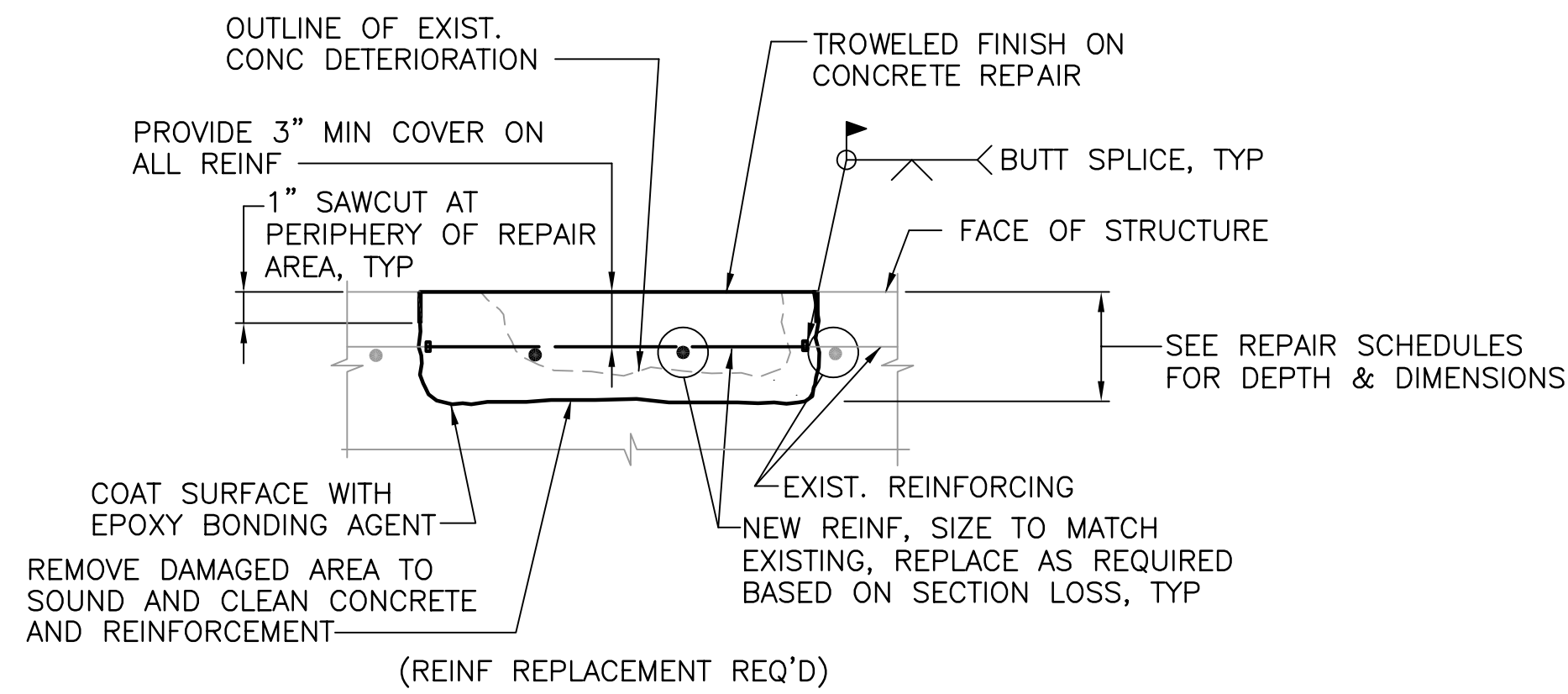
FUEL & PUMP-OUT DOCKS
DETAILS

DATE:	06-24-05
SCALE:	NONE
DRAWING No.:	10175-36
SHEET No.:	S21

RECORD DRAWING
ISSUED 09 AUGUST 2007

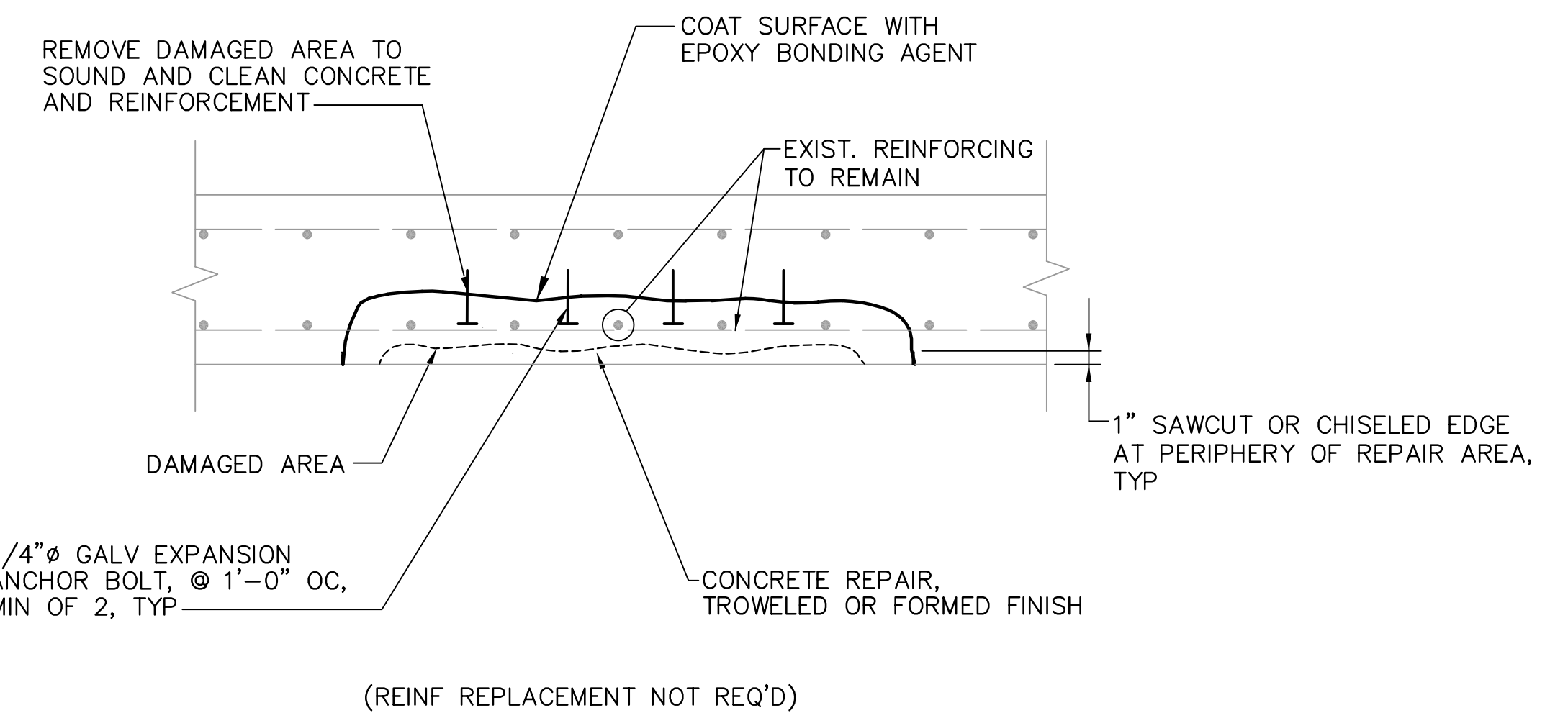
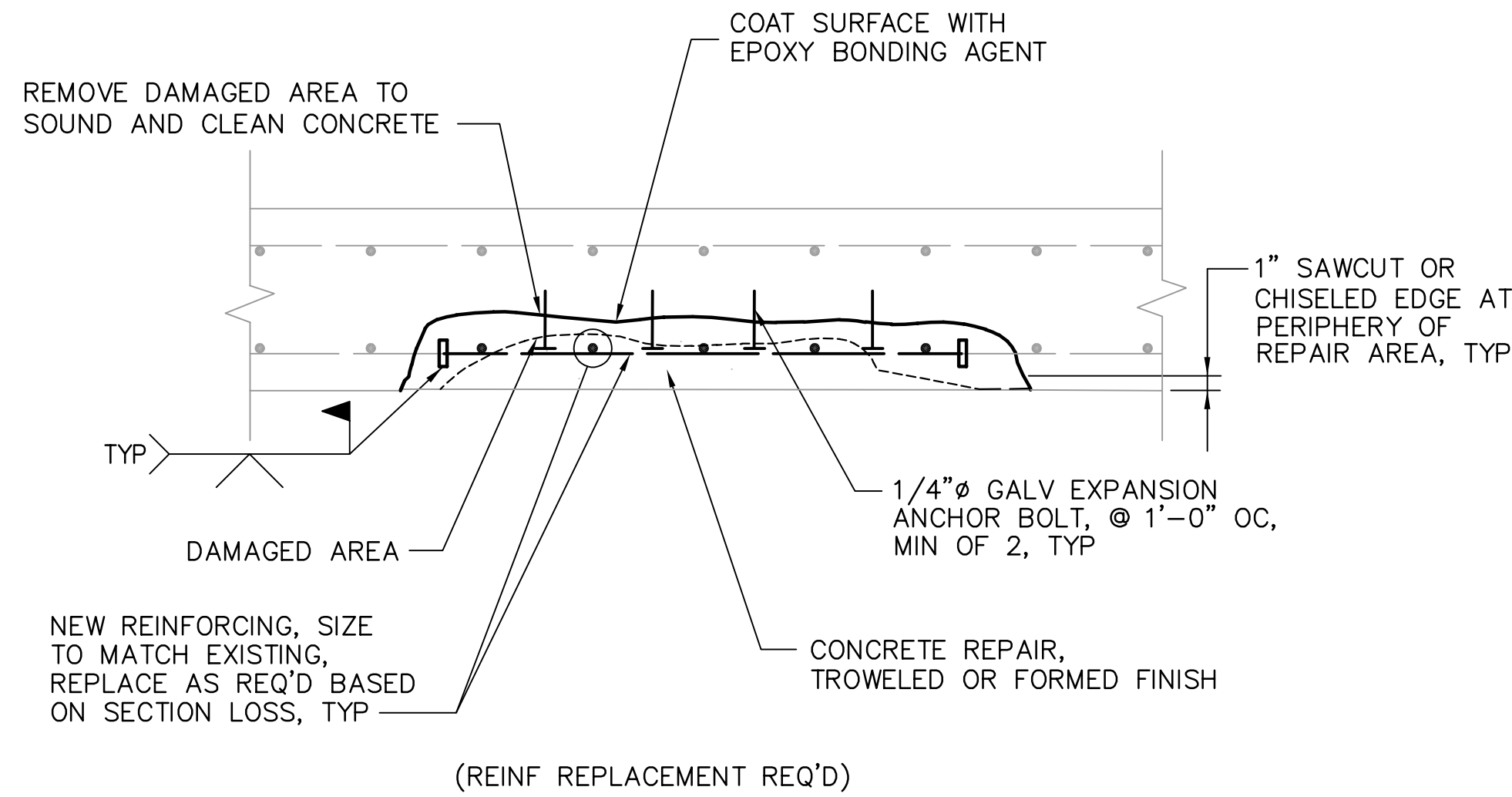
JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

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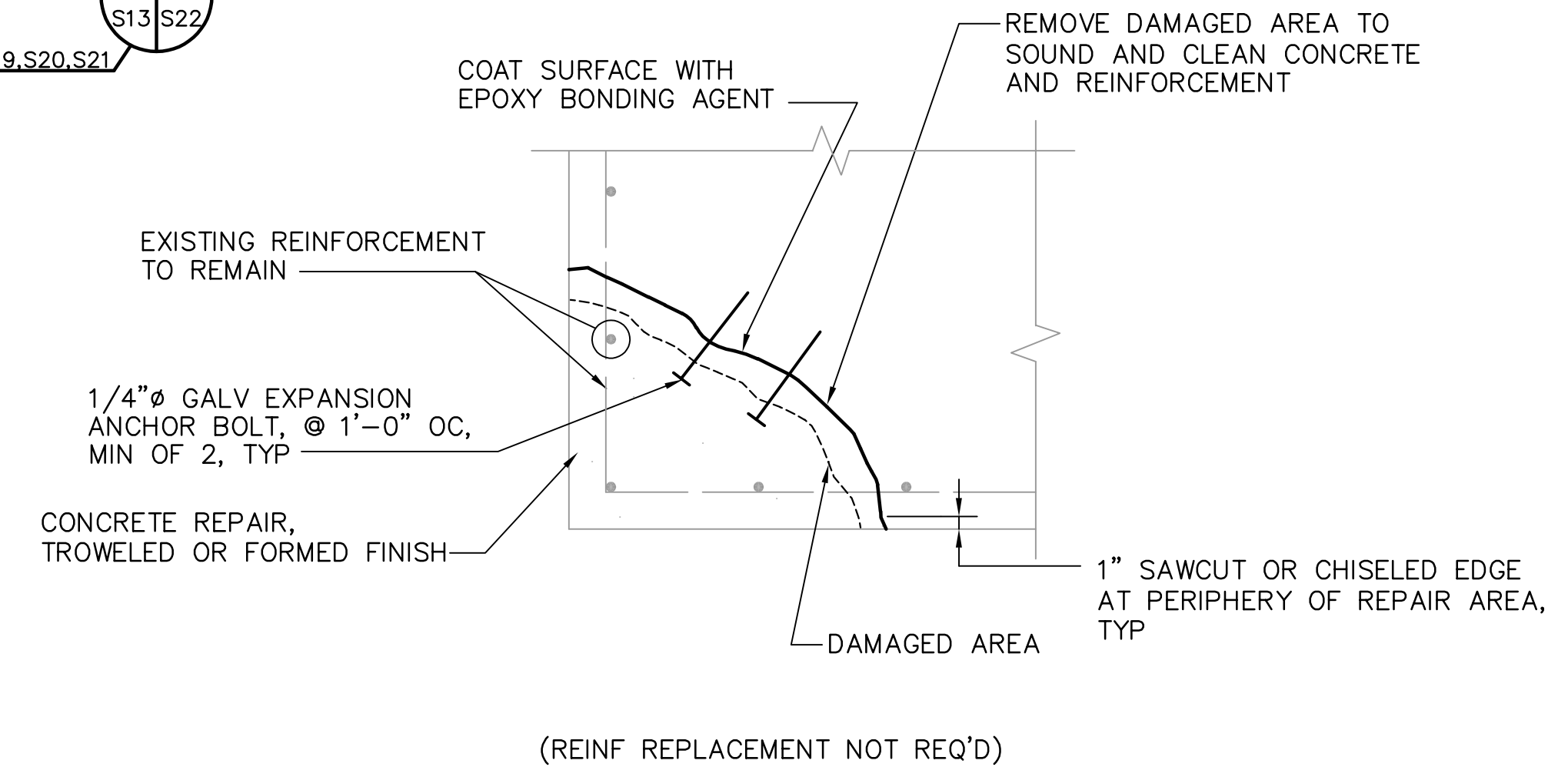
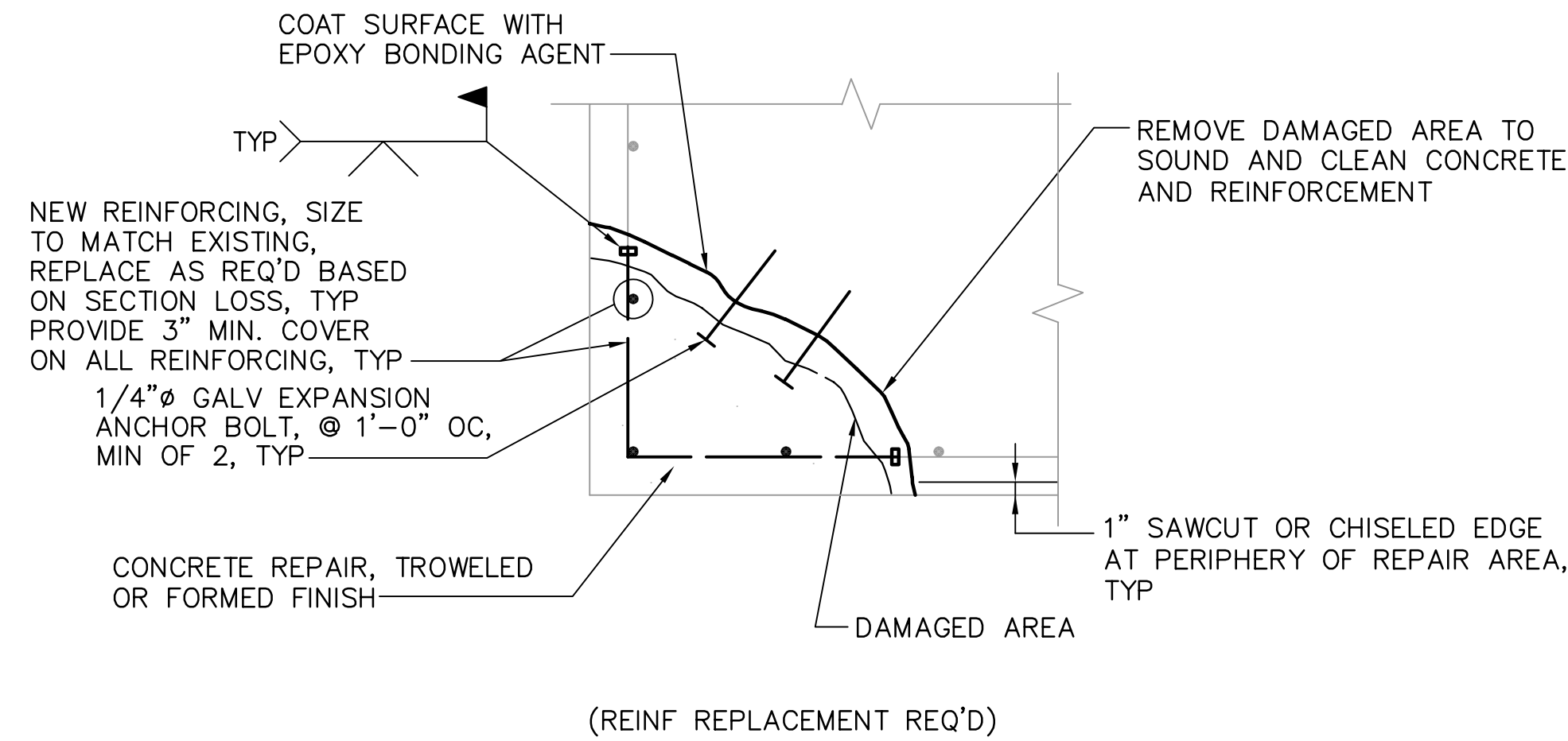
TYPICAL SPALL REPAIR 1

NTS
S14.S15.S16.S17.S18.S19.S20.S21



SPALL REPAIR - HIDDEN SURFACES 2

NTS
S14.S15.S16.S17.S18.S19.S20.S21



CORNER SPALL REPAIR - ALL SURFACES 3

NTS
S14.S15.S16.S17.S18.S19.S20.S21

NOTES:

- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CONCRETE REHABILITATION.
- CONTRACTOR SHALL ROUGHEN SURFACE OF EXISTING CONCRETE TO MINIMUM 1/4" AMPLITUDE.
- CONTRACTOR SHALL REPLACE EXPOSED REINFORCEMENT, IF CROSS SECTIONAL AREA LOSS IS GREATER THAN 10%.
- CONTRACTOR SHALL CLEAN EXISTING REINFORCEMENT AND CONCRETE BEFORE PLACING NEW CONCRETE.
- SPALL REPAIRS APPLICABLE TO ALL CONCRETE ELEMENTS INCLUDING DECKS, CAPS AND COLUMNS.

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NOTE:
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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JAM	DATE: 01/04	REVISIONS	BY	DATE
DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
FIELD BOOK No.	PAGE		THRU	
BM No.	EL.			
LOCATION:				

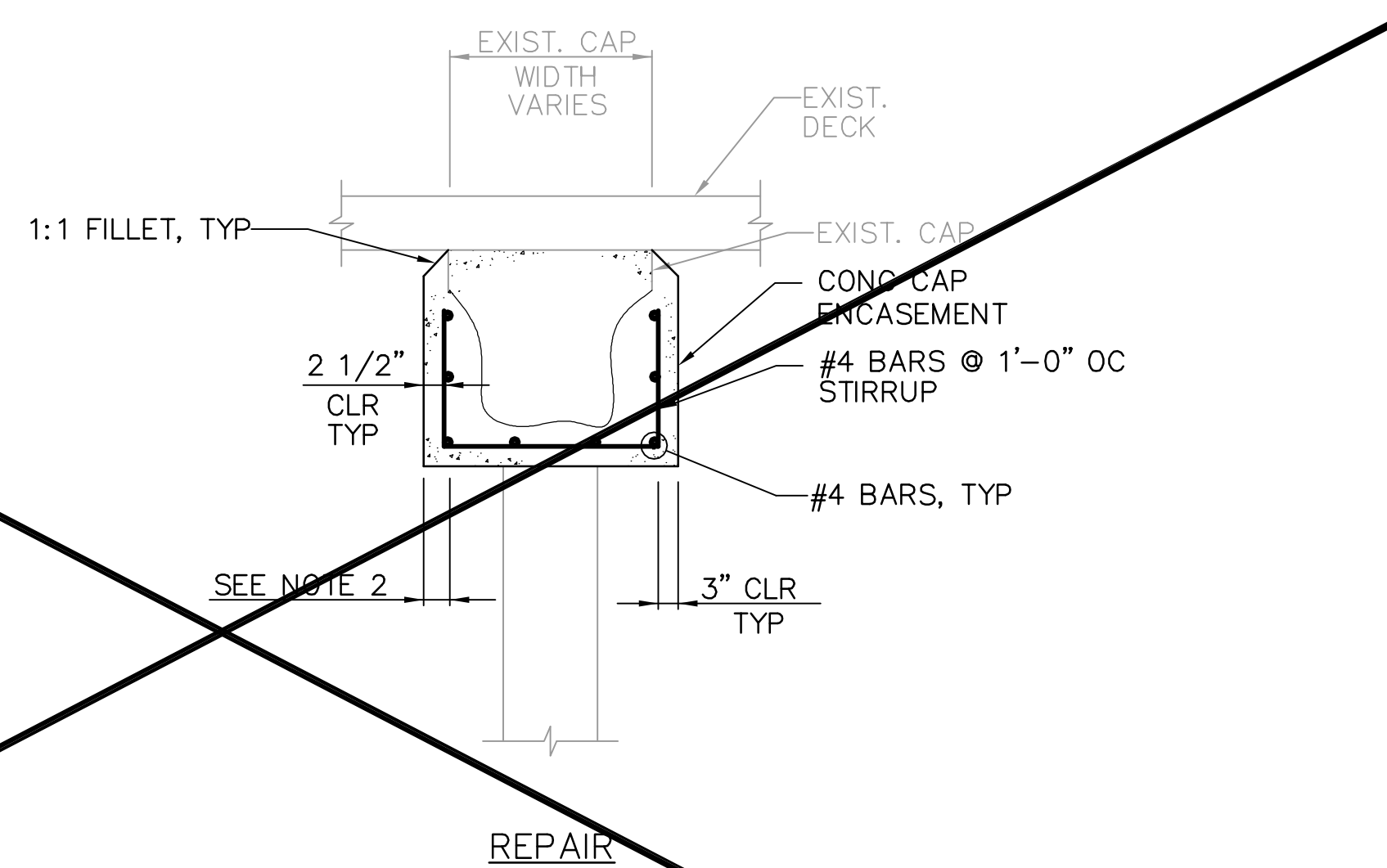
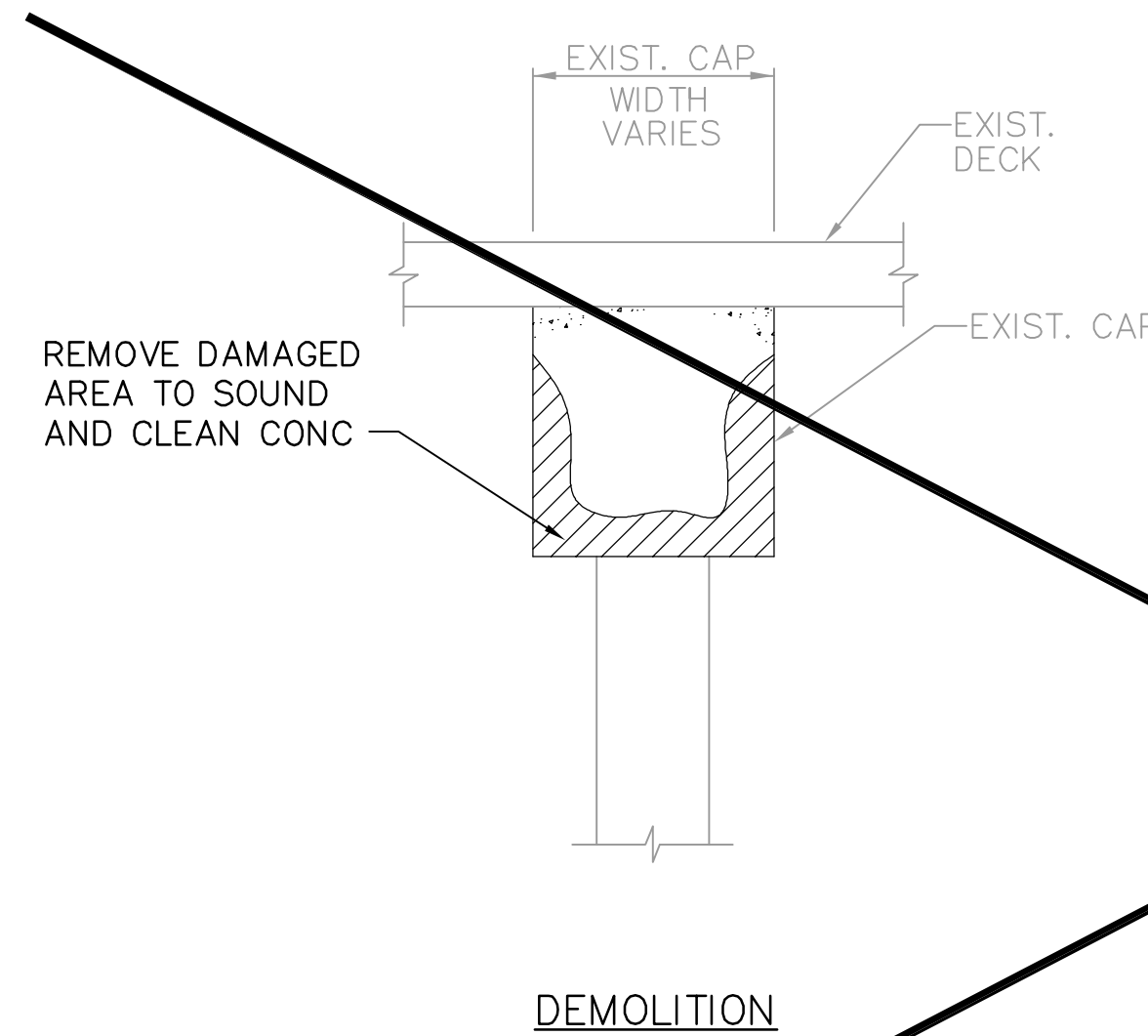
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813-258-8818
LIC: EB-0004877

APPROVED BY: [Signature]
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

CONCRETE REPAIR DETAILS
SHEET 1 OF 2

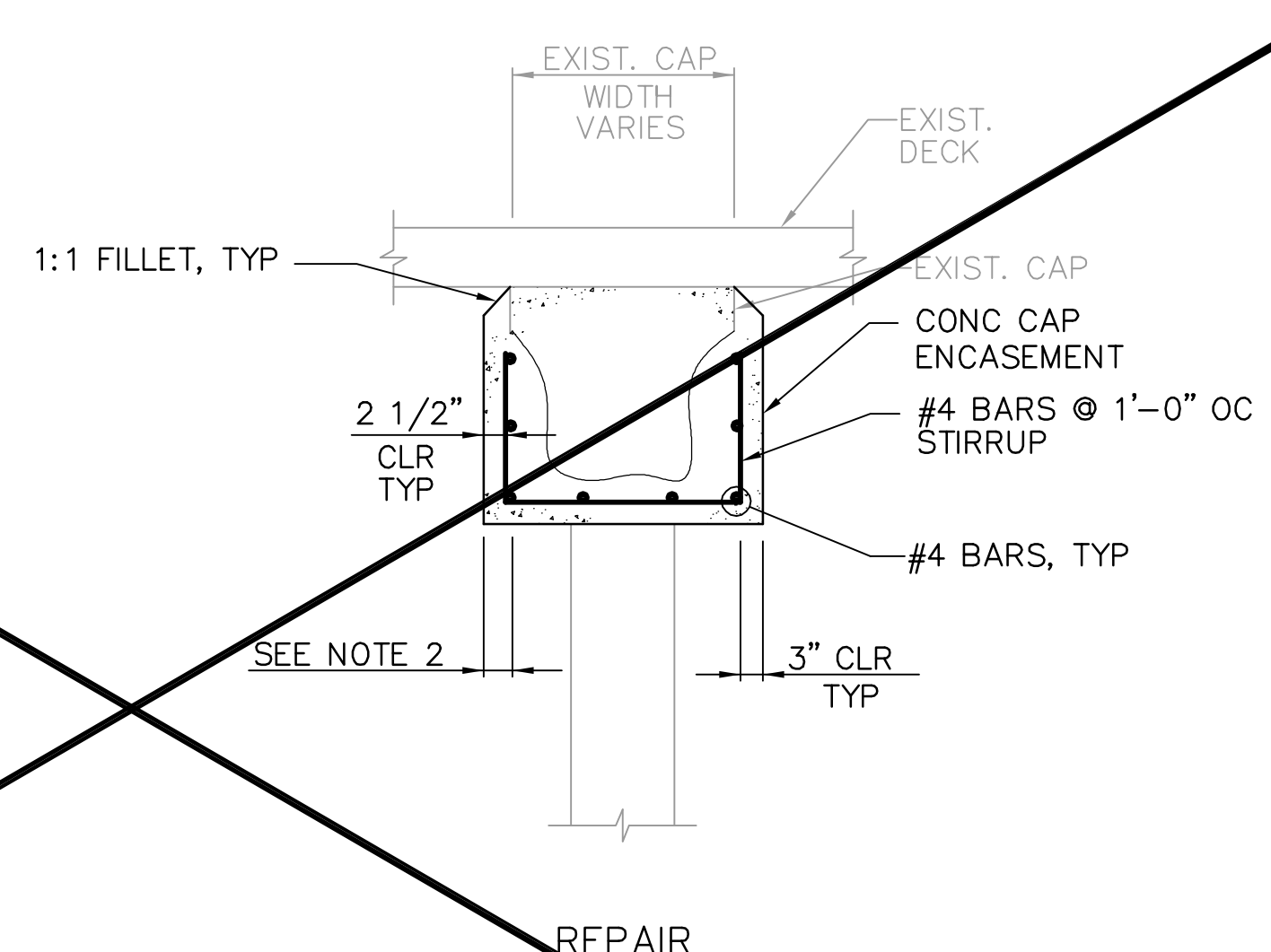
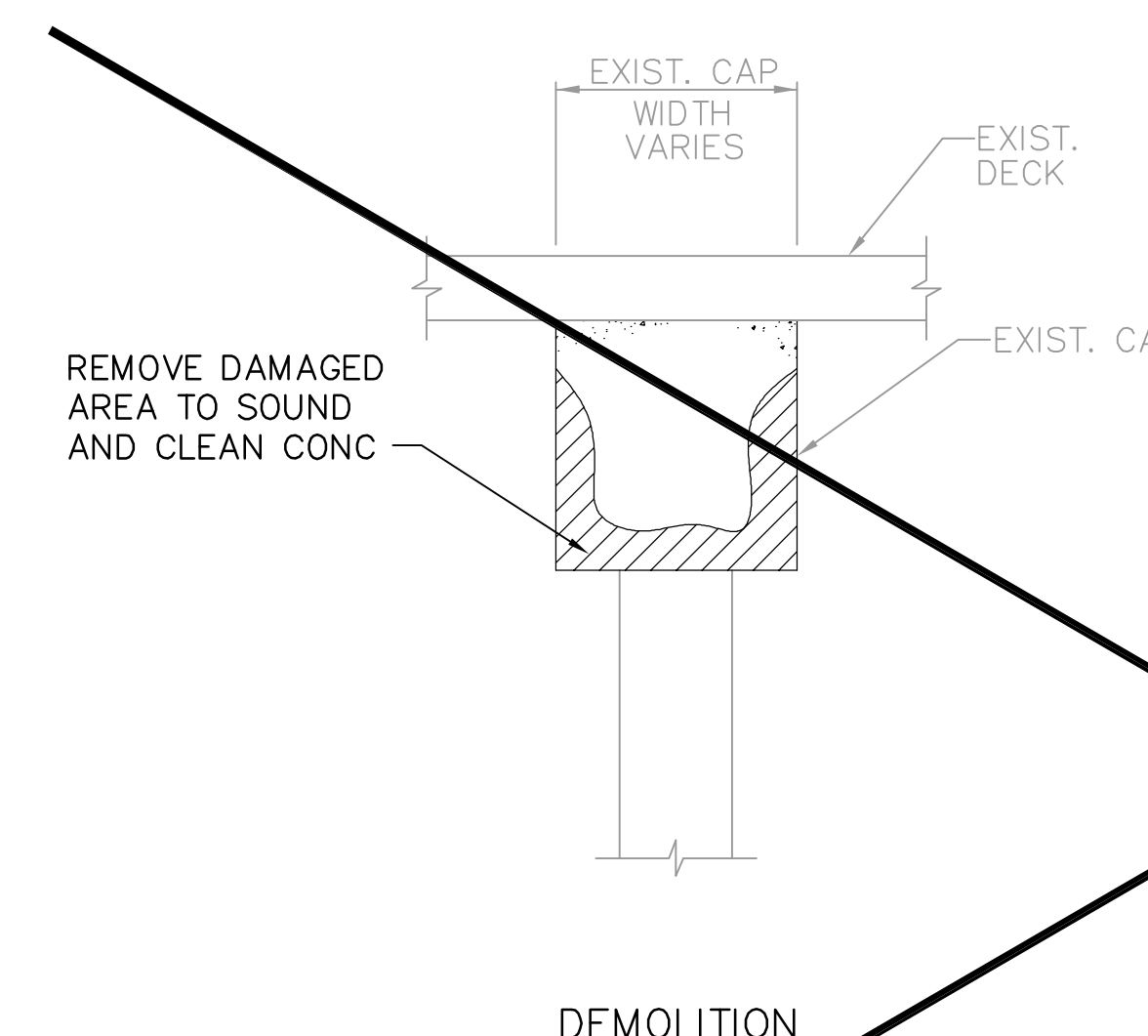
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SCALE: NONE
DRAWING No.: 10175-37
SHEET No.: S22



- NOTES:**
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CONCRETE REHABILITATION.
 - CONTRACTOR SHALL ROUGHEN SURFACE OF EXISTING CONCRETE TO MINIMUM 1/4" AMPLITUDE.
 - CONTRACTOR SHALL CLEAN EXISTING REINFORCEMENT AND CONCRETE BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS.

- NOTES:**
- DIMENSIONS MEASURED FROM EDGE OF EXISTING CAP BEFORE DEMOLITION.
 - FACE OF MAIN PIER ENCASEMENT (ALONG ITS WIDTH) SHALL NOT EXTEND PAST FACE OF TIMBER RUB RAIL AND SHALL BE A MAXIMUM OF 4 INCHES. WHERE ENCASEMENT DIMENSION IS NOT RESTRICTED BY RUB RAIL, EXTEND FACE 4 INCHES ON EACH SIDE.
 - MAINTAIN SAME BOTTOM ELEVATION OF MAIN PIER CAP.

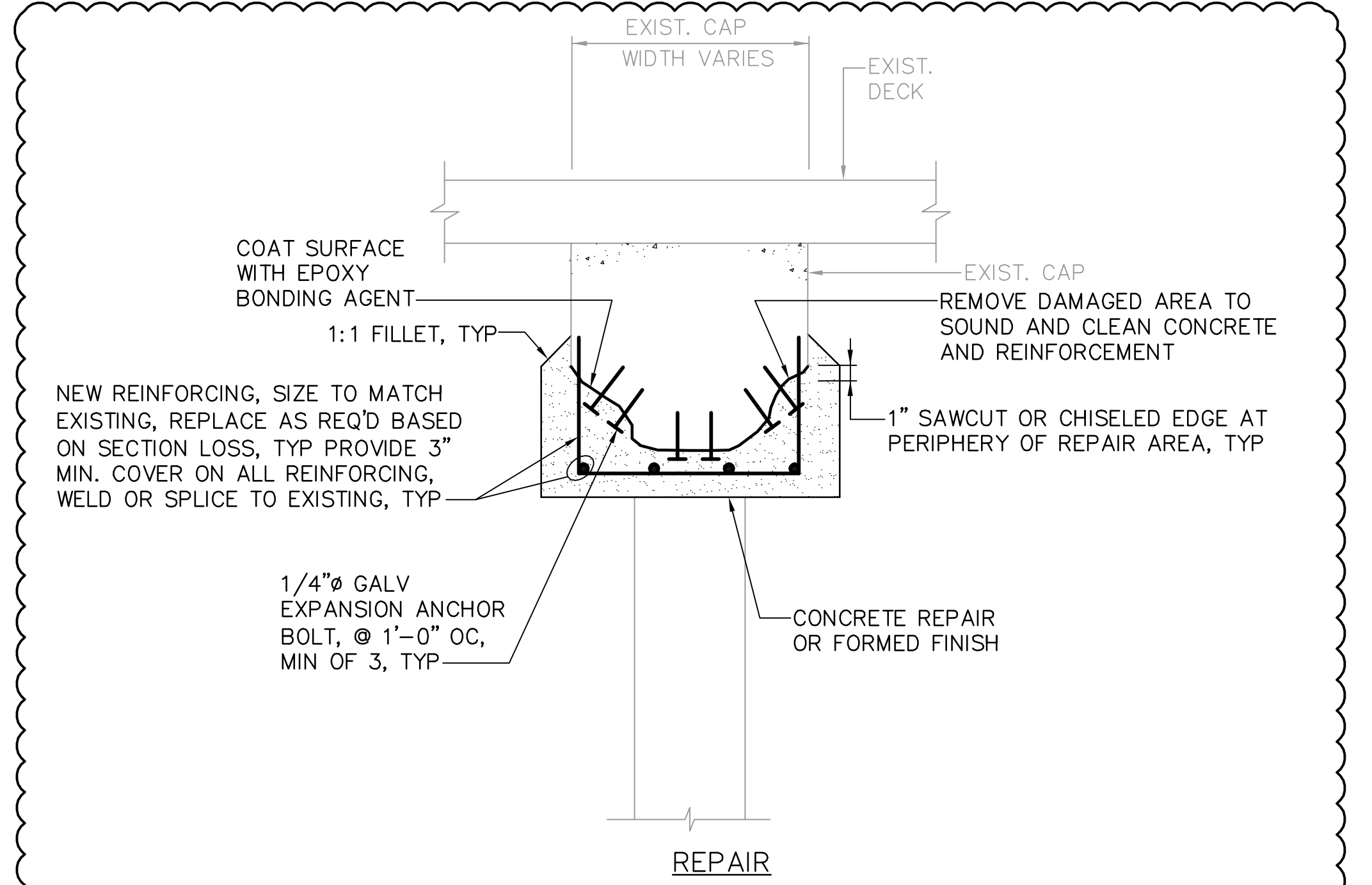
MAIN PIER CAP ENCASEMENT DETAIL 1
NTS
S16, S17, S18, S21



- NOTES:**
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CONCRETE REHABILITATION.
 - CONTRACTOR SHALL ROUGHEN SURFACE OF EXISTING CONCRETE TO MINIMUM 1/4" AMPLITUDE.
 - CONTRACTOR SHALL CLEAN EXISTING REINFORCEMENT AND CONCRETE BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS.

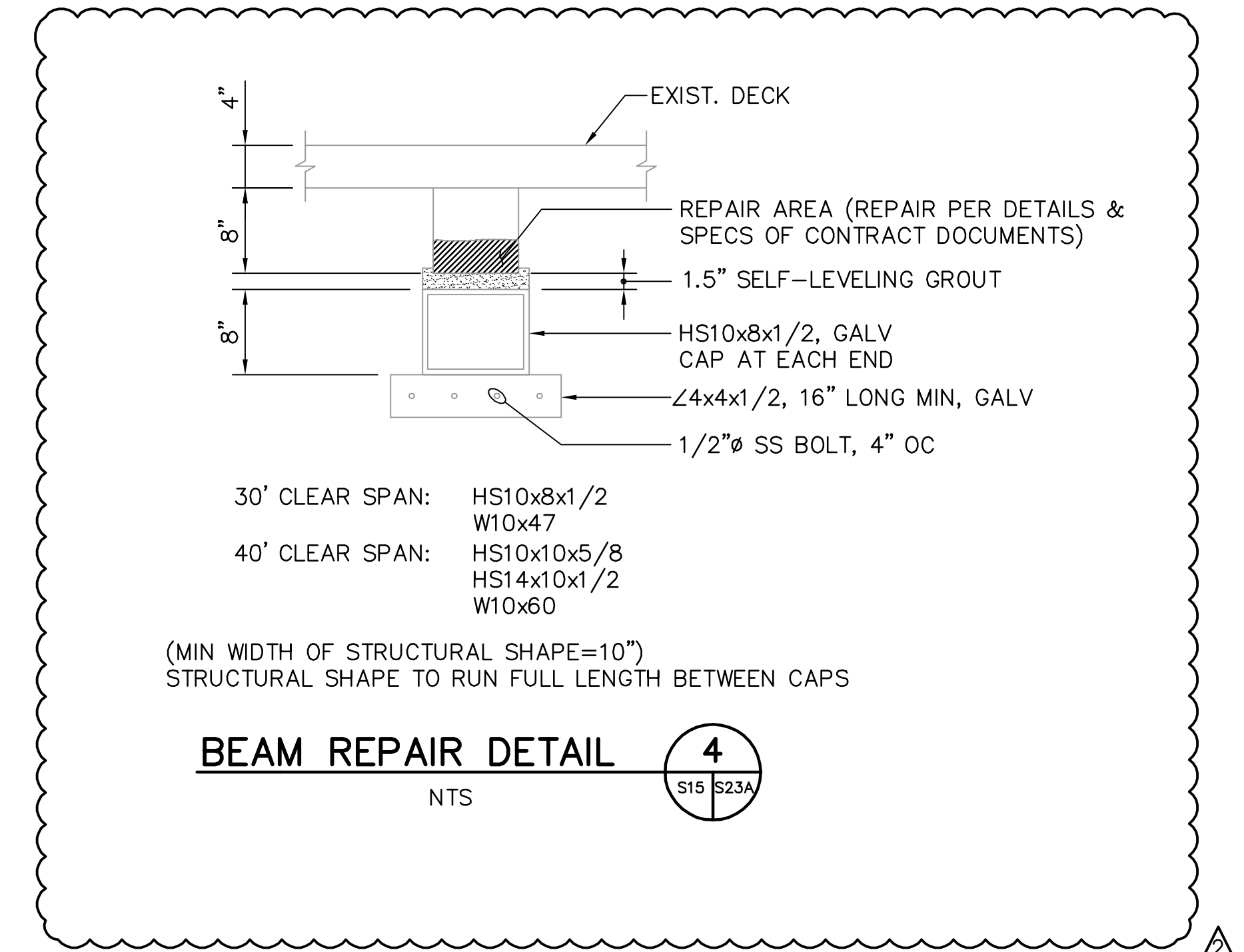
- NOTES:**
- DIMENSIONS MEASURED FROM EDGE OF EXISTING CAP BEFORE DEMOLITION.
 - FACE OF FINGER PIER ENCASEMENT SHALL NOT EXTEND PAST FACE OF TIMBER RUB RAIL. MAXIMUM DIMENSION SHALL NOT BE GREATER THAN 4 INCHES ON EACH FACE.
 - MAINTAIN SAME BOTTOM ELEVATION OF FINGER PIER CAP.

FINGER PIER CAP ENCASEMENT DETAIL 2
NTS
S16, S17, S18, S21



- NOTES:**
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CONCRETE REHABILITATION.
 - CONTRACTOR SHALL ROUGHEN SURFACE OF EXISTING CONCRETE TO MINIMUM 1/4" AMPLITUDE.
 - CONTRACTOR SHALL REPLACE EXPOSED REINFORCEMENT. IF CROSS SECTIONAL AREA LOSS IS GREATER THAN 10%.
 - CONTRACTOR SHALL CLEAN EXISTING REINFORCEMENT AND CONCRETE BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - FULL BOTTOM SPALL REPAIR DETAIL APPLIC. CONCRETE CAPS. MAXIMUM HEIGHT OF FULL SPALL REPAIR SHALL BE HALF OF THE EXIS' HEIGHT.
 - DIMENSIONS MEASURED FROM EDGE OF EXISTING CAP BEFORE DEMOLITION.
 - FACE OF FULL SPALL REPAIR SHALL BE MINIMUM TO MAINTAIN 3" SIDE COVER ON REPLACEMENT REINFORCEMENT.
 - MAINTAIN SAME BOTTOM ELEVATION OF FINGER PIER CAP.

FULL BOTTOM SPALL REPAIR 3
NTS
S16, S17, S18, S21



BEAM REPAIR DETAIL 4
NTS
S15, S23A

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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RECORD DRAWING
ISSUED 09 AUGUST 2007

DESIGNED BY: JAM
DRAWN BY: EGW
CHECKED BY: JDM
FIELD BOOK No.
BM No.
LOCATION:

DATE: 01/04
DATE: 02/04
DATE: 02/04
PAGE
EL.

REVISIONS	BY	DATE
RECORD DRAWINGS	TV	07.27.07
CAP REPAIR		05-17-06

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ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
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813-258-8818
LIC: EB-0004877

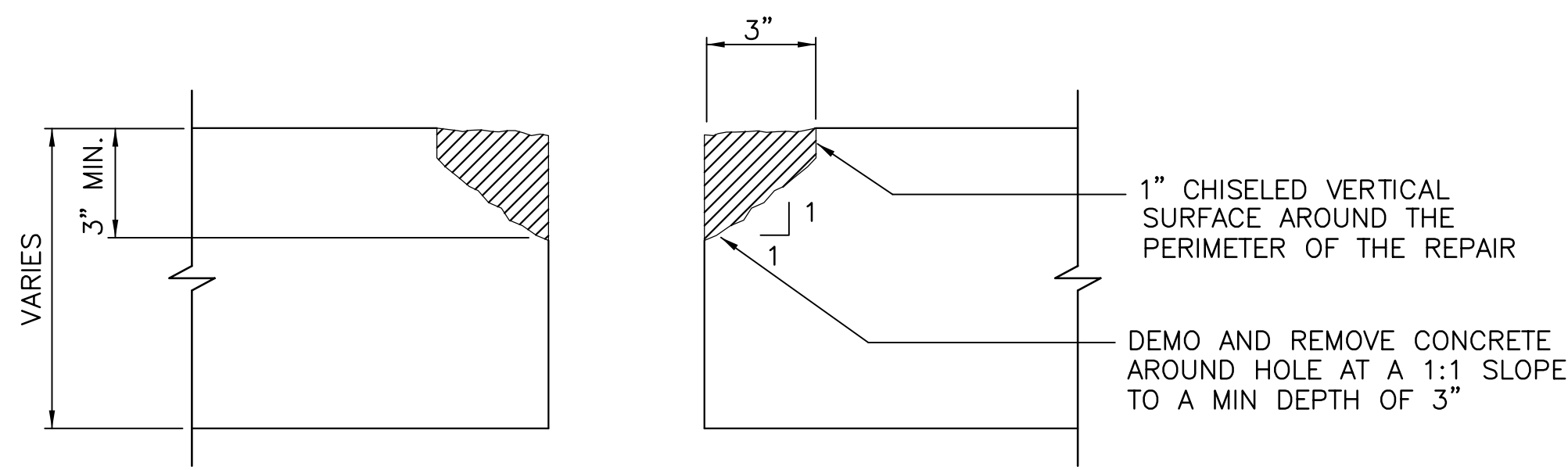
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

APPROVED BY:

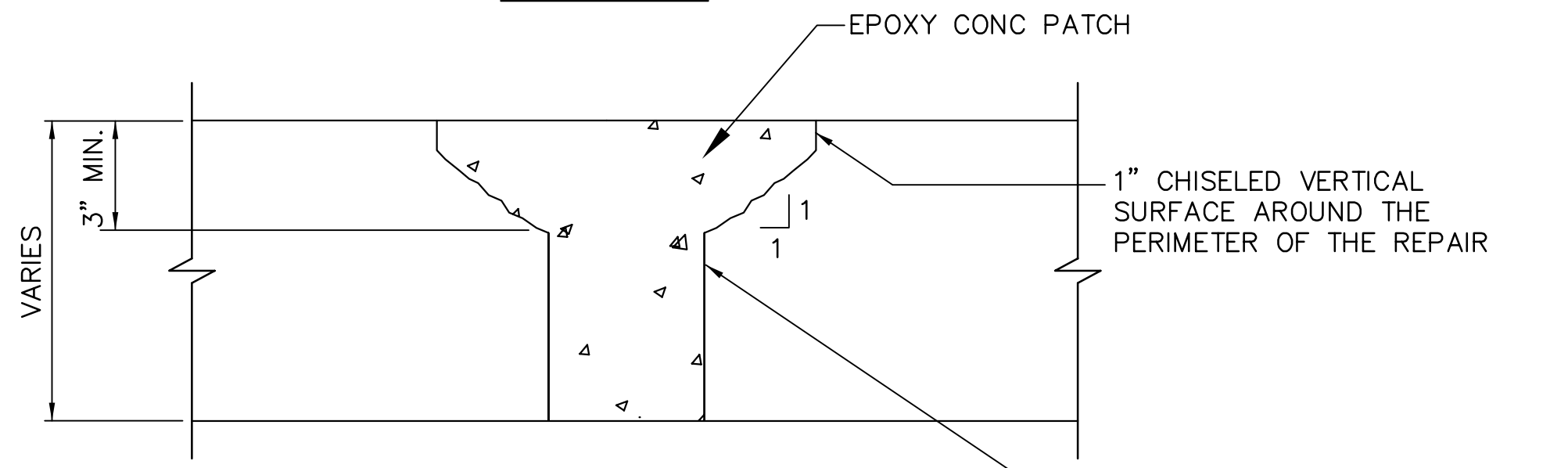
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

CAP REPAIR DETAILS

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-38
SHEET No.: **S23A**



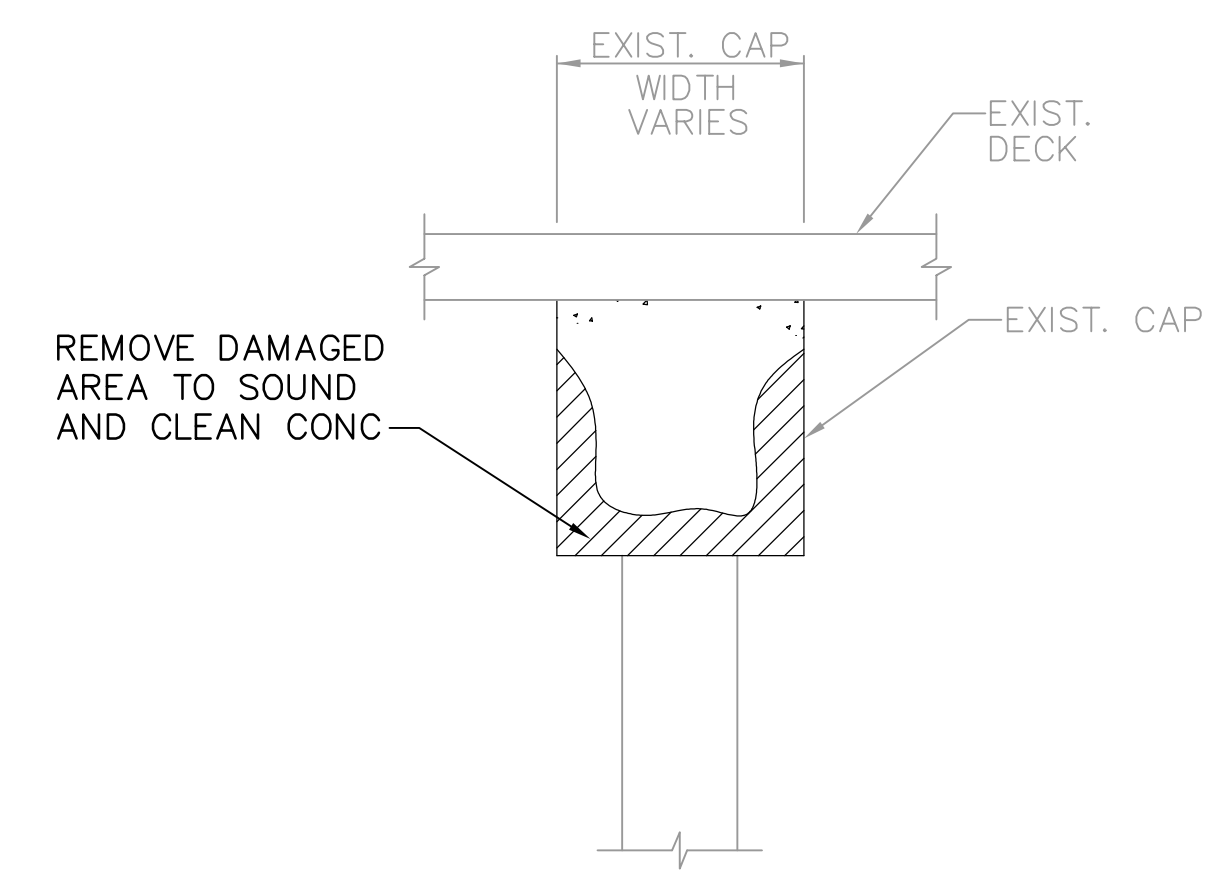
DEMOLITION



REPAIR

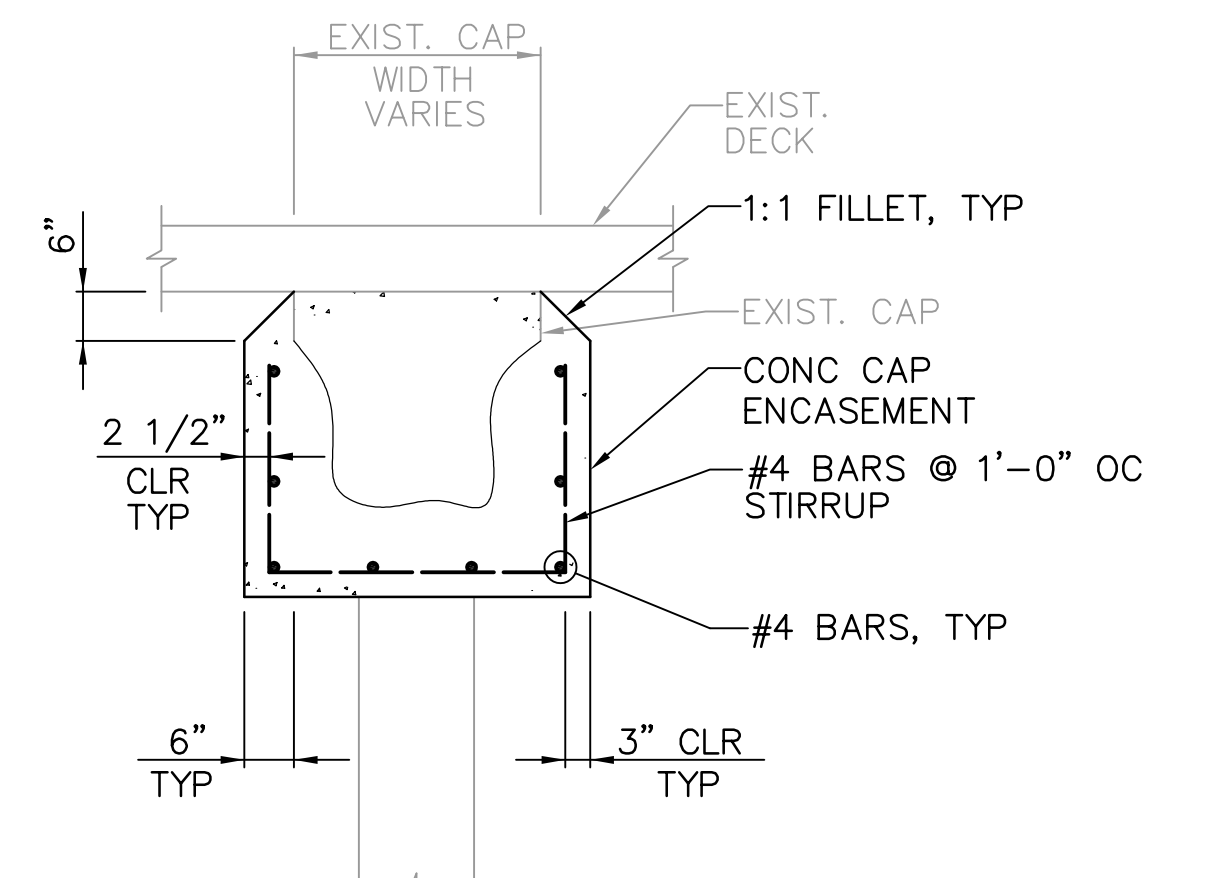
POST/HOLE DETAIL 1
NTS
S15, S16, S17, S18, S19

CONTRACTOR SHALL ROUGHEN CONTACT SURFACE OF EXISTING CONCRETE TO MINIMUM 1/4" AMPLITUDE. COAT SURFACES WITH EPOXY BONDING COMPOUND & FILL AREA WITH EPOXY CONC



DEMOLITION

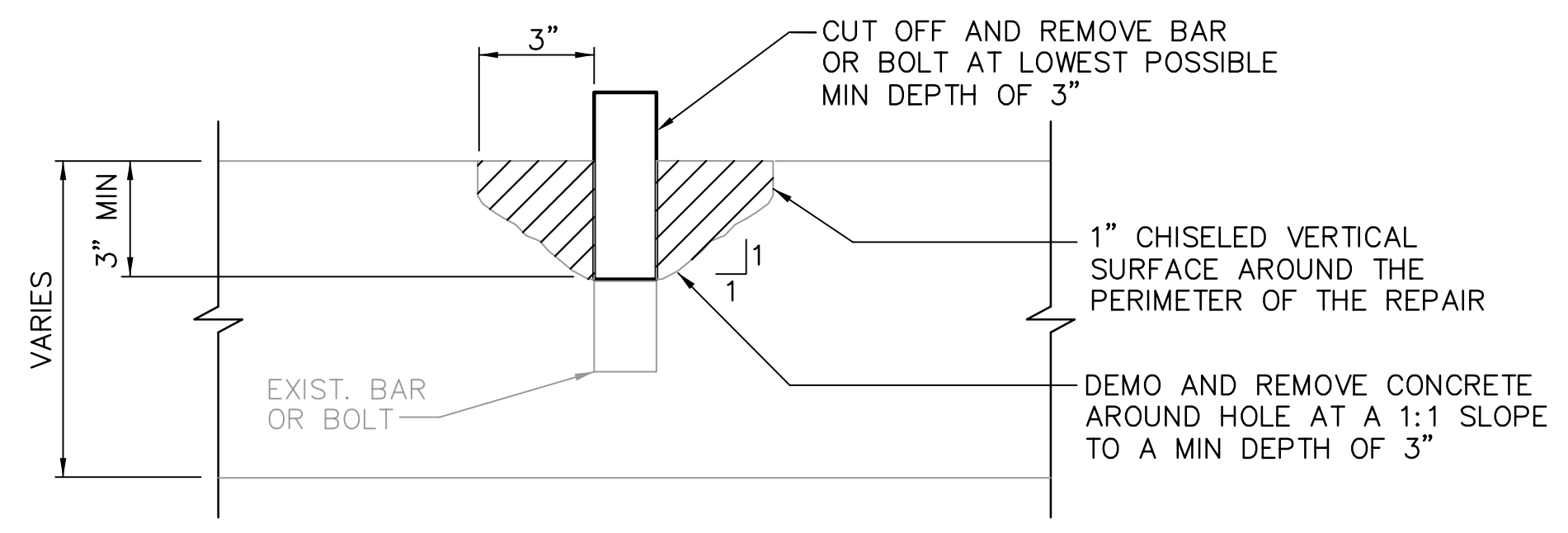
NOTE:
CLEAN EXISTING REINFORCEMENT BEFORE REPAIRING CAP.



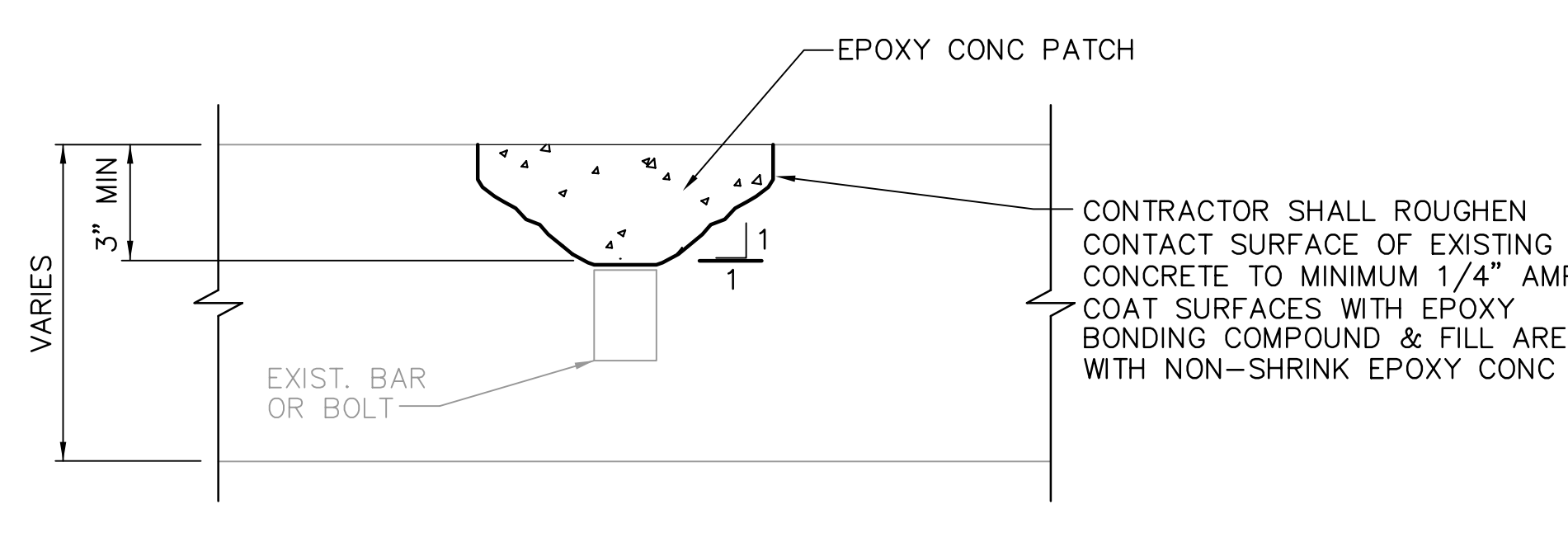
REPAIR

NOTE:
DIMENSIONS MEASURED FROM EDGE OF EXISTING CAP BEFORE DEMOLITION.

CAP ENCASEMENT DETAIL 3
NTS
S16, S17, S18, S21



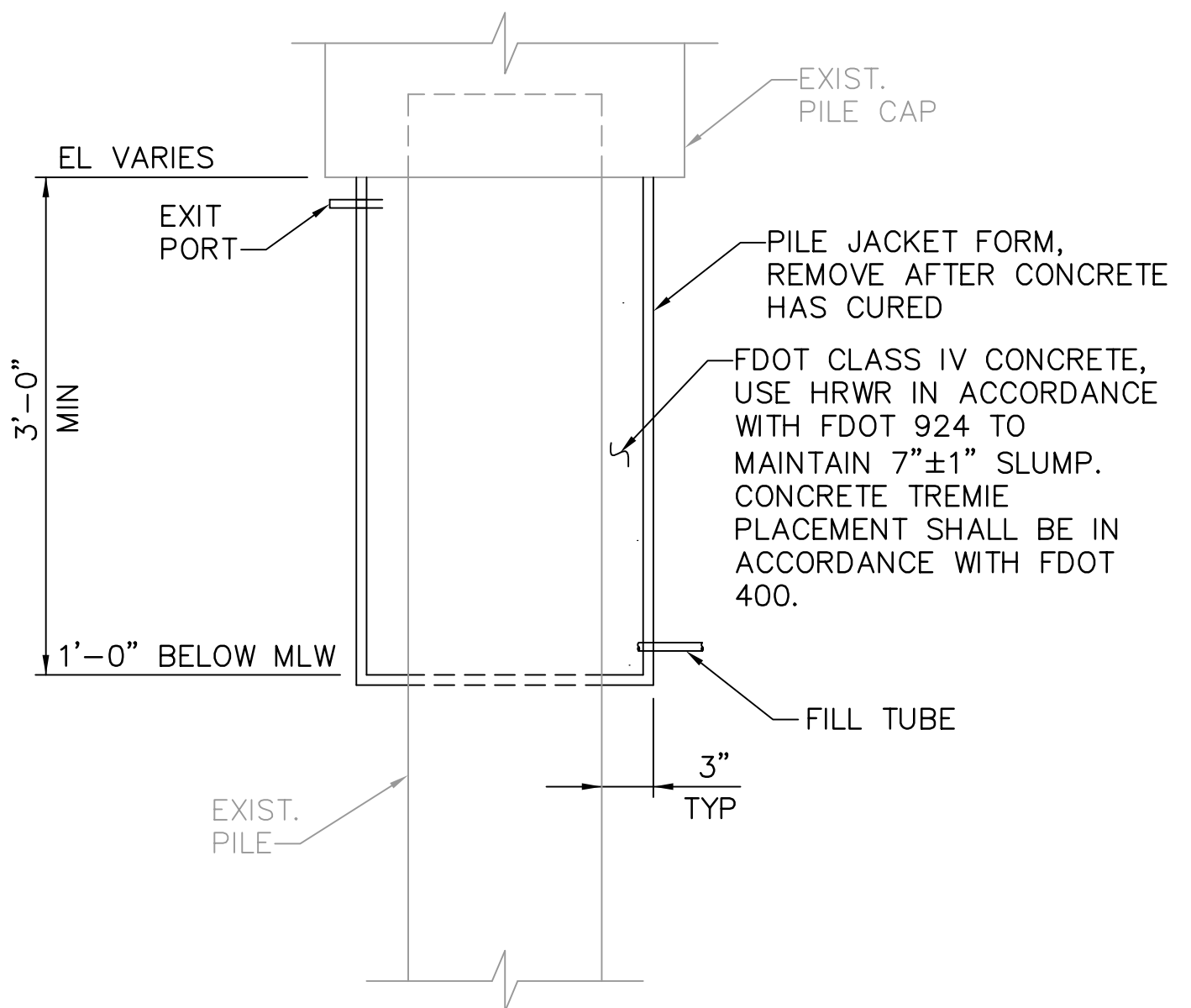
DEMOLITION



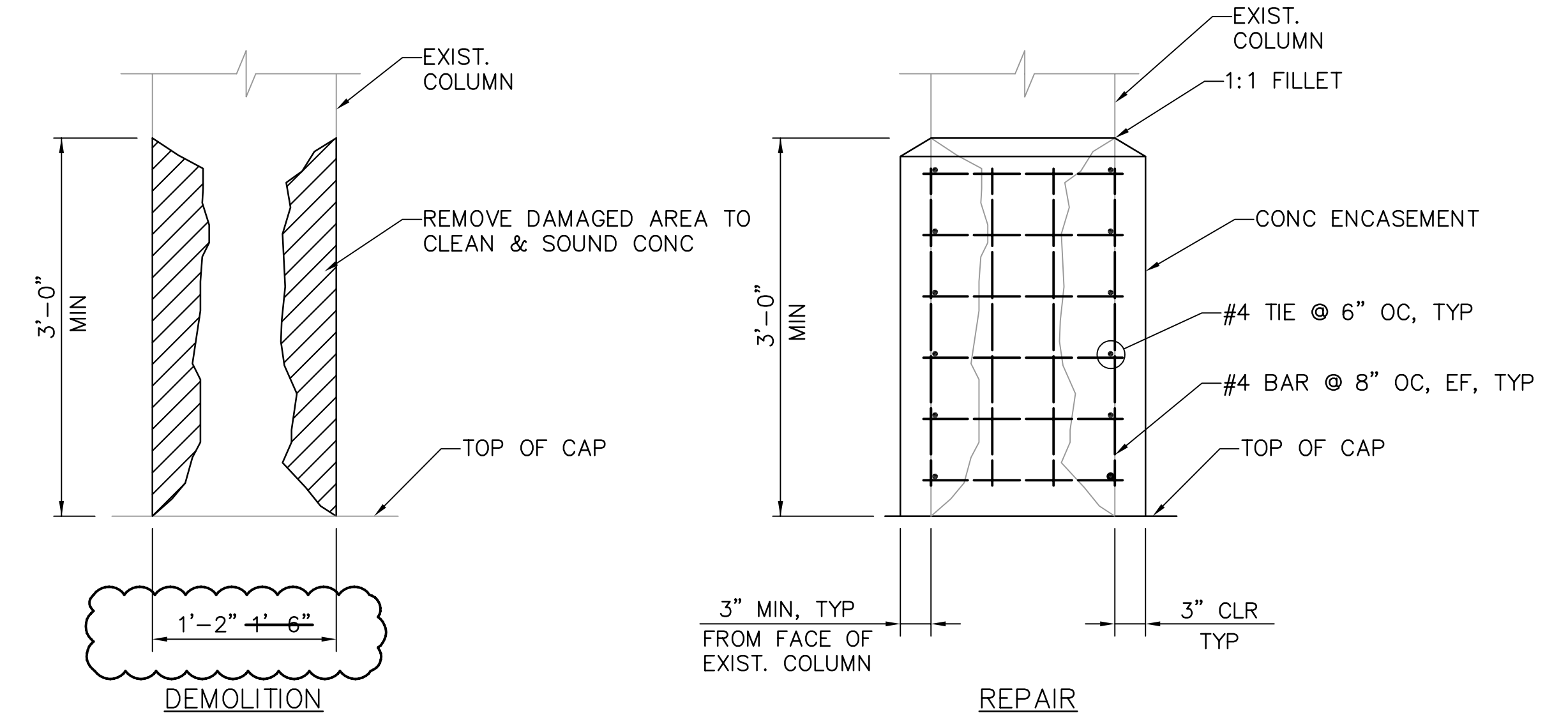
REPAIR

BAR/BOLT DETAIL 2
NTS
S15, S16, S17, S18, S19

NOTE:
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CONCRETE REHABILITATION.



PILE JACKET DETAIL 4
NTS
S17, S19, S21



DEMOLITION

REPAIR

COLUMN ENCASEMENT DETAIL 5
NTS
S15, S23

NOTE:
CONTRACTOR SHALL TEMPORARILY SUPPORT CANOPY PRIOR TO DEMOLITION UNTIL CONCRETE HAS REACHED ITS 28-DAY STRENGTH.

NOTE:
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ISSUED 06 AUGUST 2007

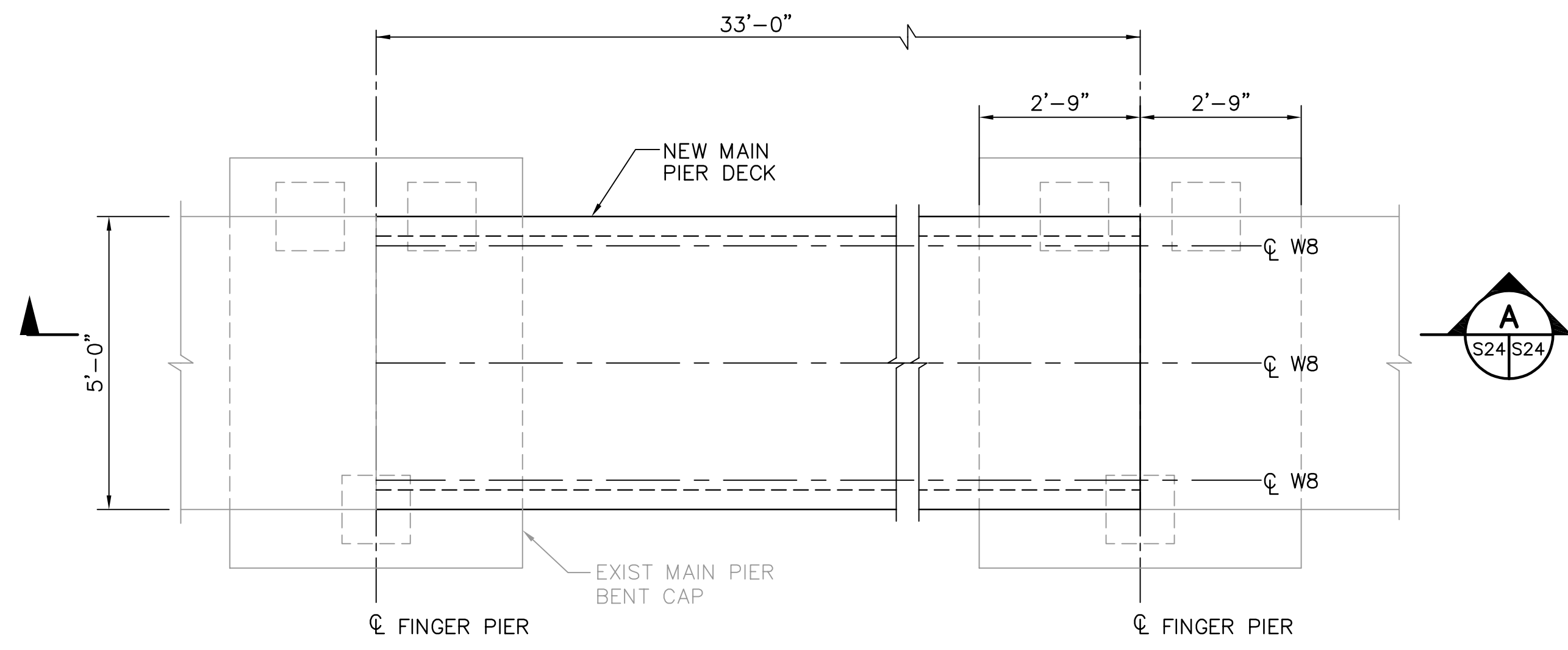
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DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
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		RECORD DRAWINGS	TV	07.27.07

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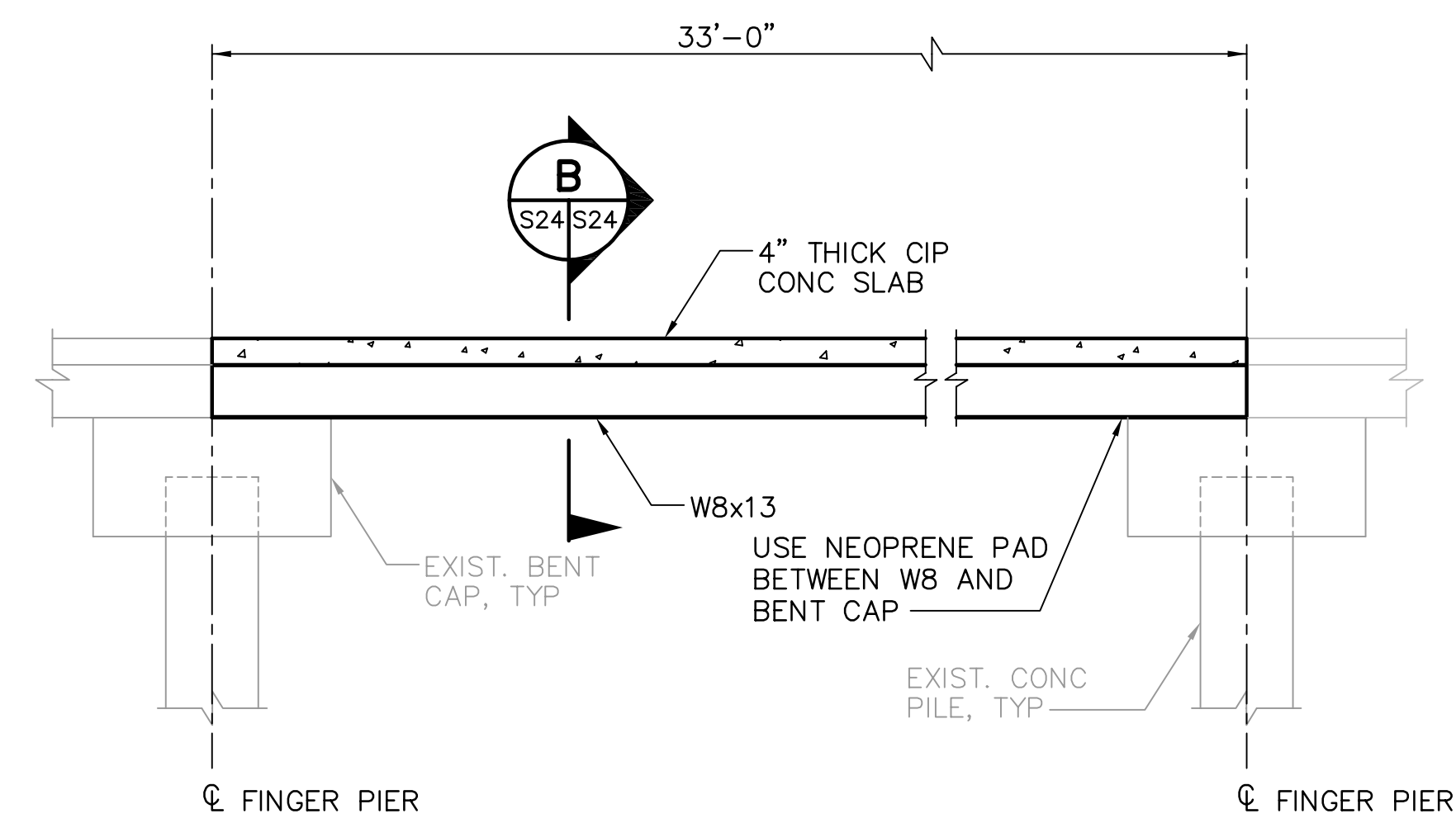
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
CONCRETE REPAIR DETAILS
SHEET 2 OF 2

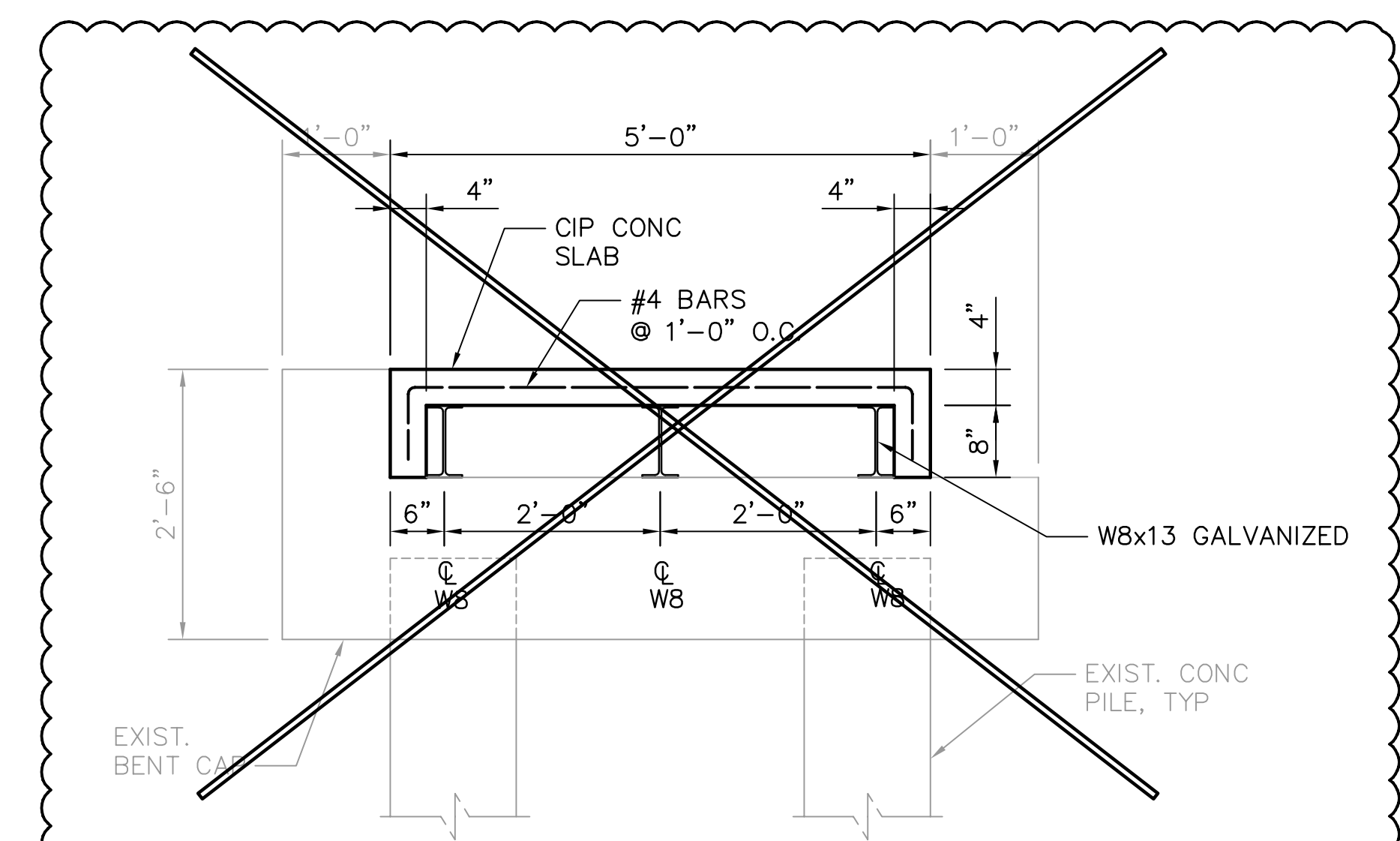
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SHEET No.: **S23**



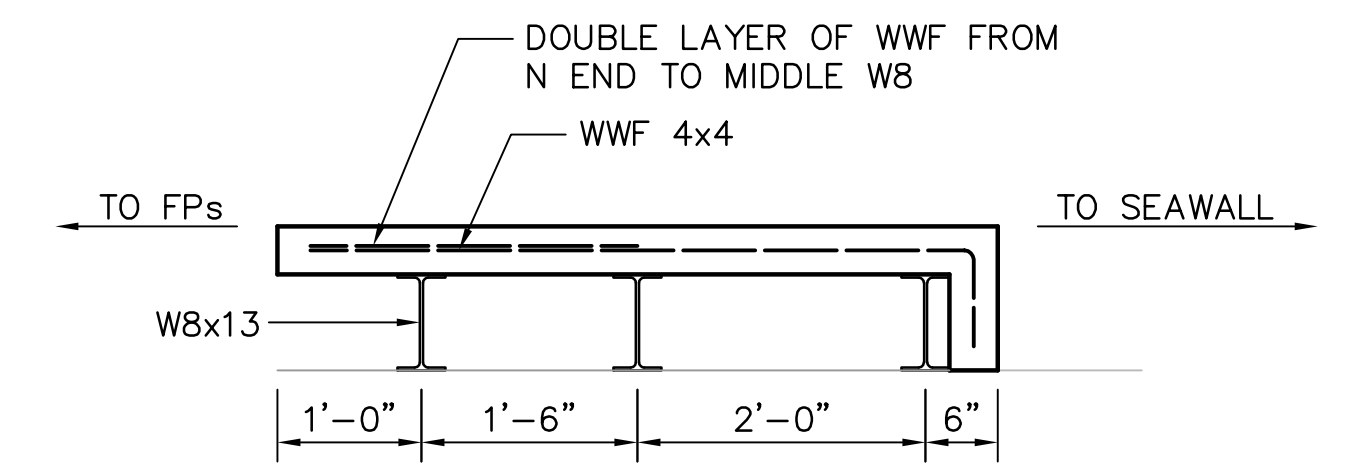
CENTRAL DOCKS MAIN PIER REPLACEMENT DETAIL 1



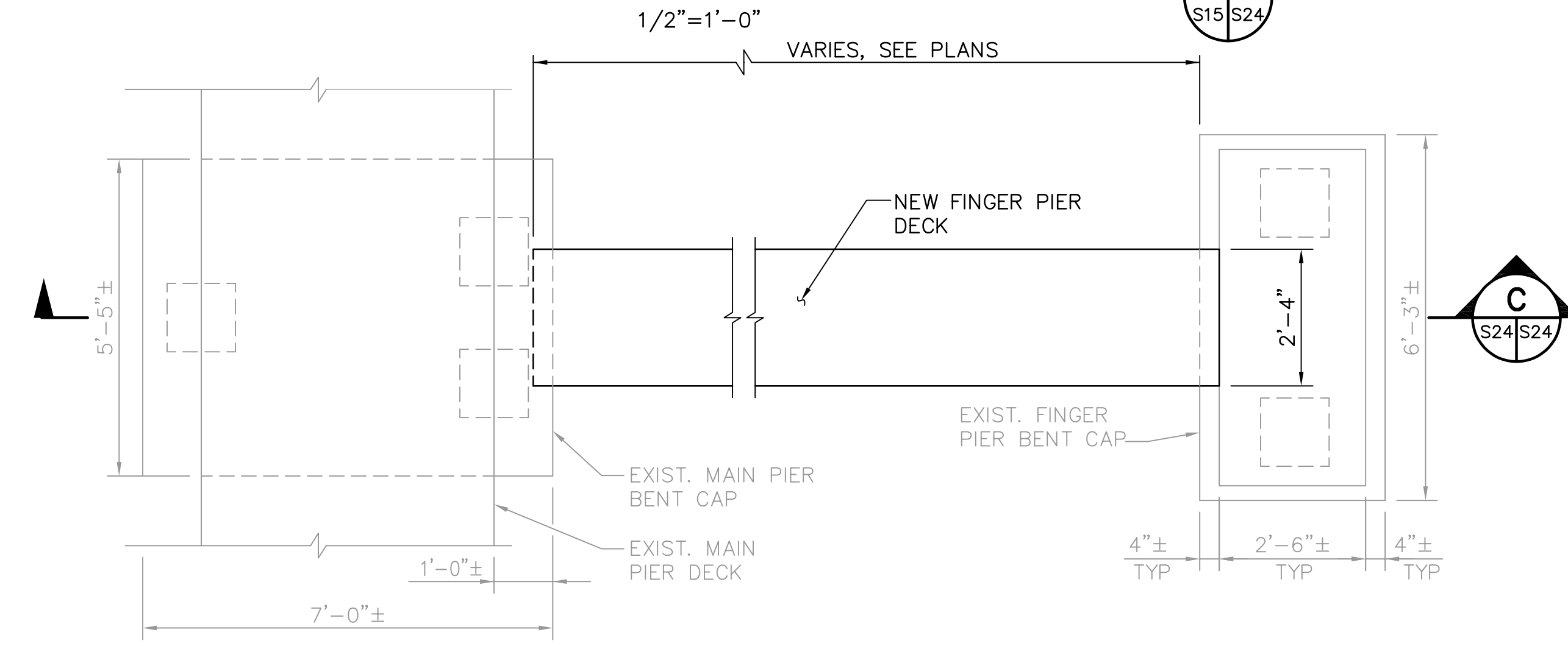
MAIN PIER SECTION A



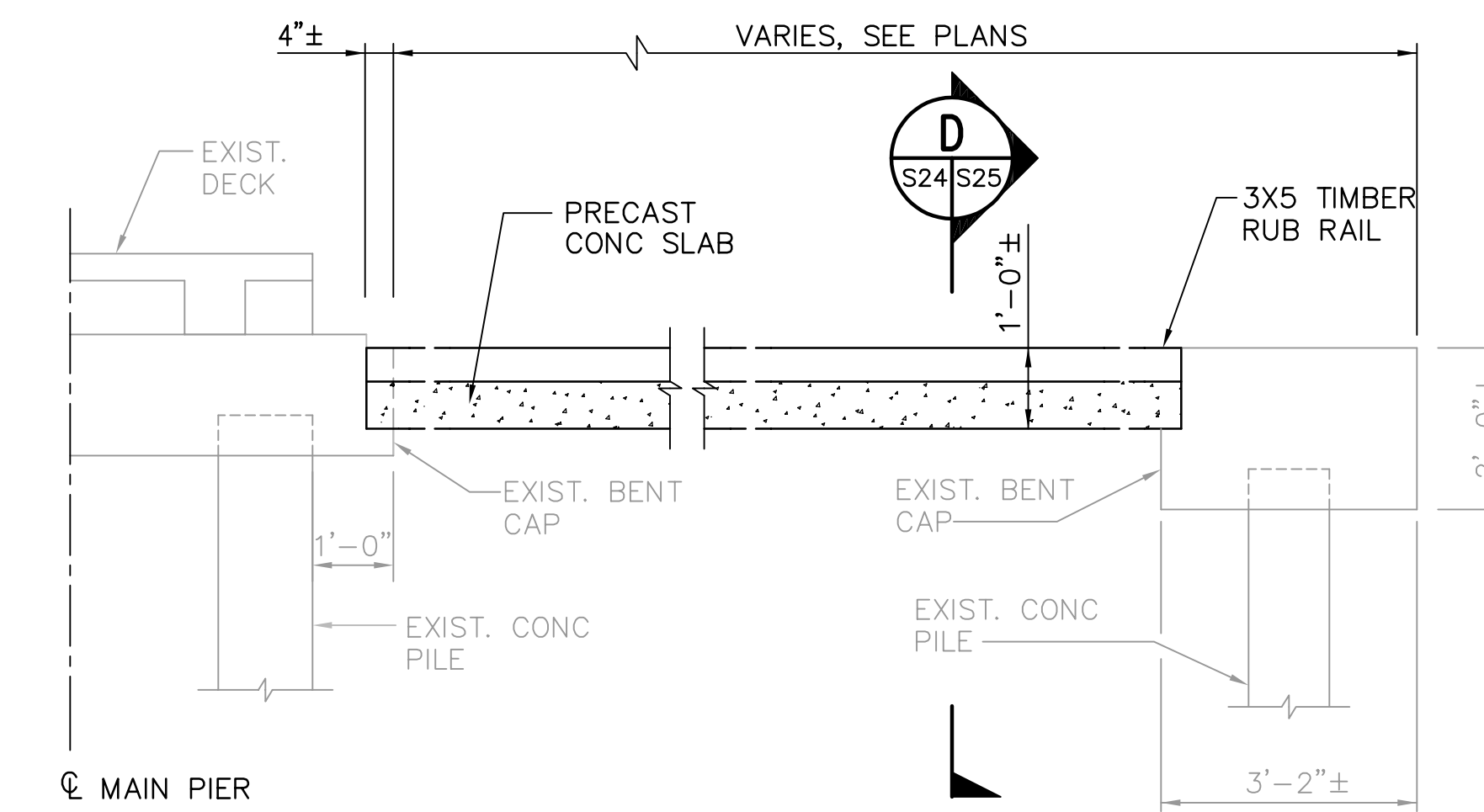
TO ACCOMMODATE UTILITY RUNS AND PEDESTALS AND CLEATS, MODIFY SECTION TO:



SECTION B



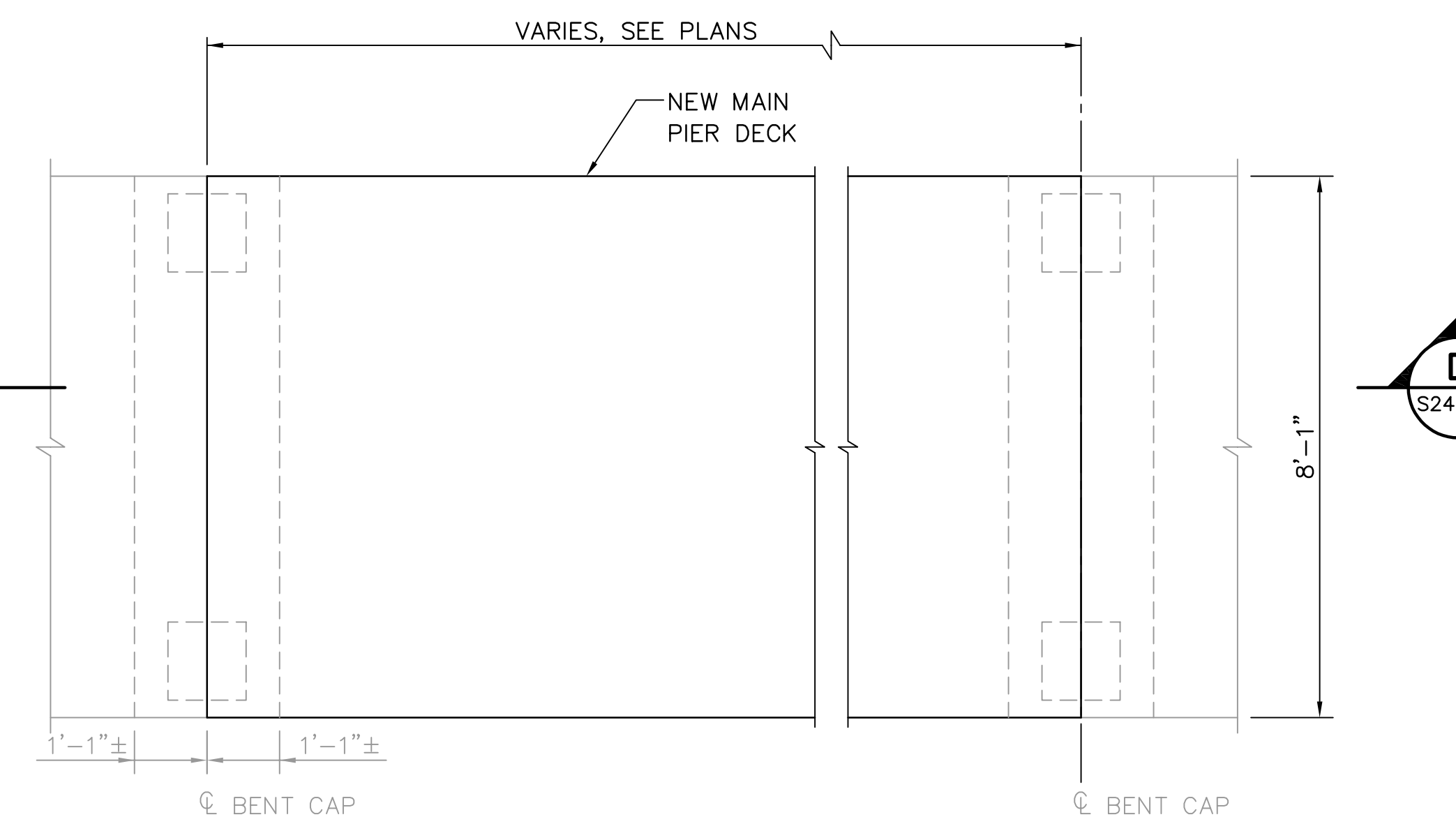
CENTRAL DOCKS SY/SZ FINGER PIER REPLACEMENT DETAIL 2



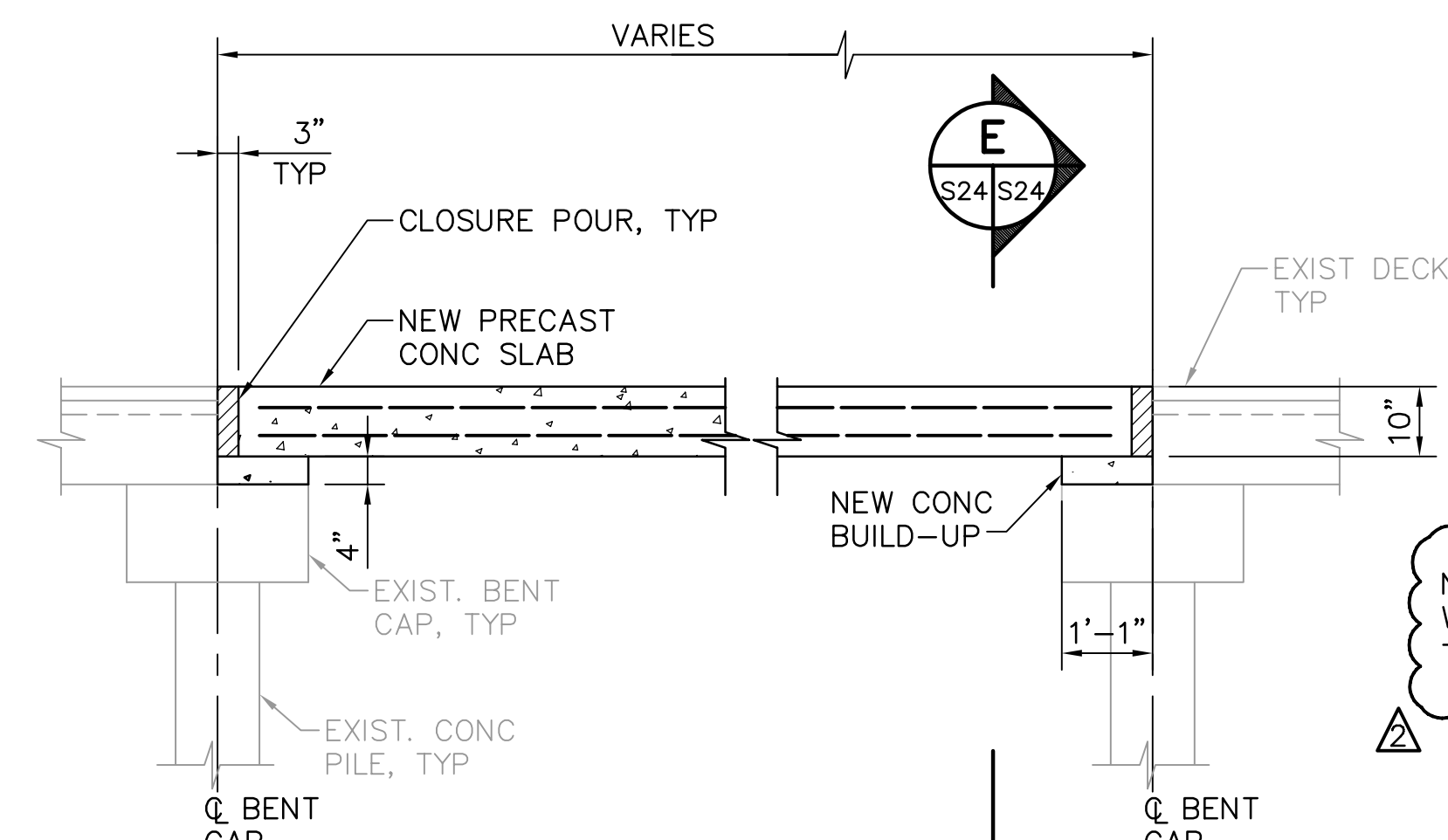
SY/SZ SECTION C

NOTES:

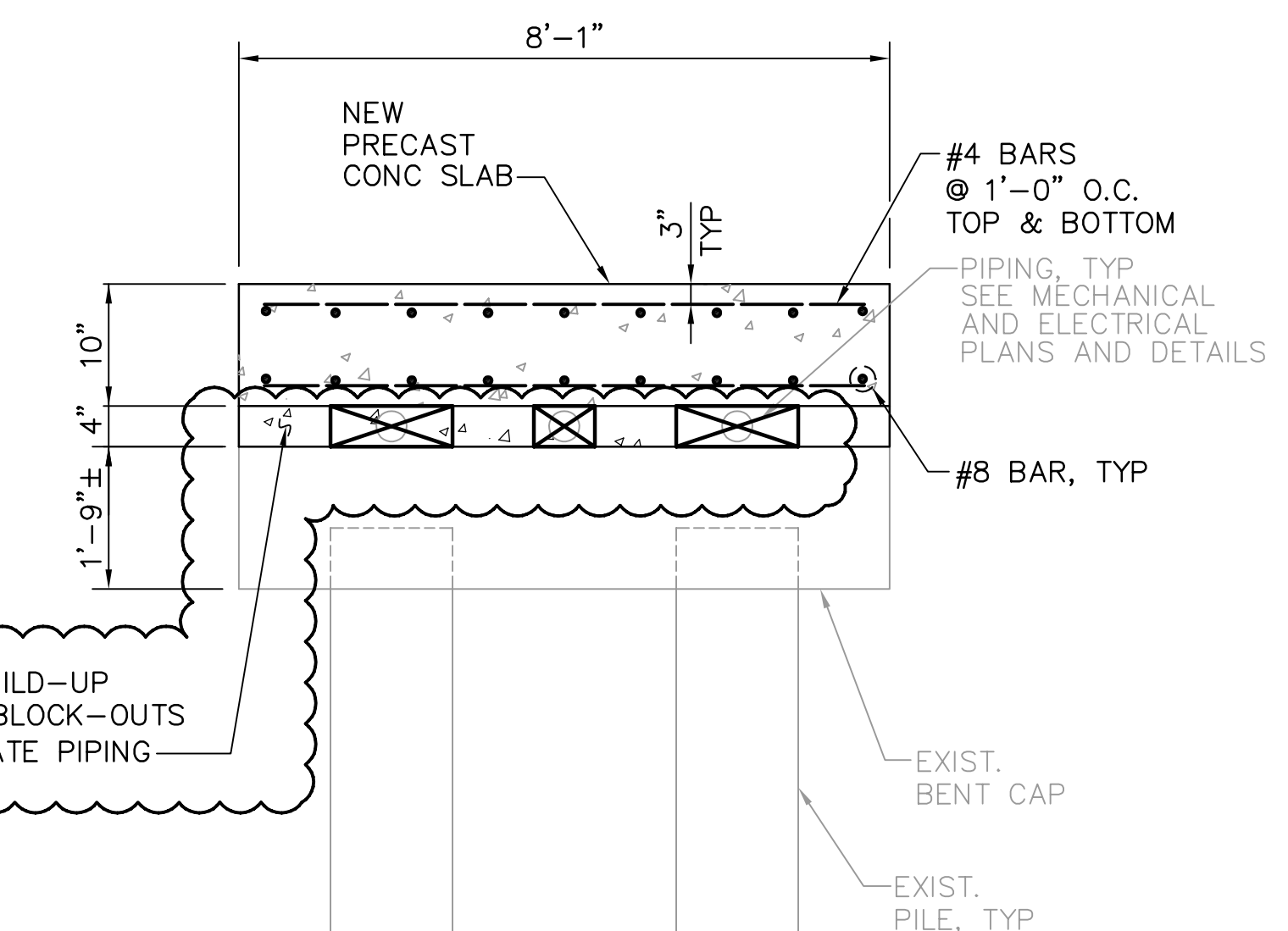
1. CONTRACTOR SHALL ROUGHEN CONTACT SURFACE OF EXISTING CONCRETE TO A MINIMUM 1/4" AMPLITUDE.
2. CONTRACTOR SHALL COAT CONTACT SURFACES OF EXISTING CONCRETE WITH EPOXY BONDING COMPOUND.
3. CONTRACTOR SHALL FILL VOIDS WITH EPOXY GROUT.



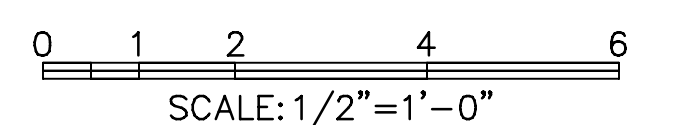
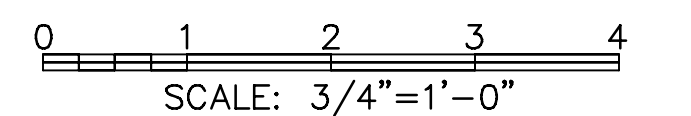
WEST, NORTH, & FUEL DOCKS MAIN PIER REPLACEMENT DETAIL 3



MAIN PIER SECTION D



MAIN PIER REPLACEMENT DETAIL E



NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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DRAWN BY: EGW	DATE: 02/04			
CHECKED BY: JDM	DATE: 02/04			
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BM No.	THRU			
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RECORD DRAWINGS			TV	07.27.07

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 TAMPA, FLORIDA 33606
 813-258-8818
 LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG

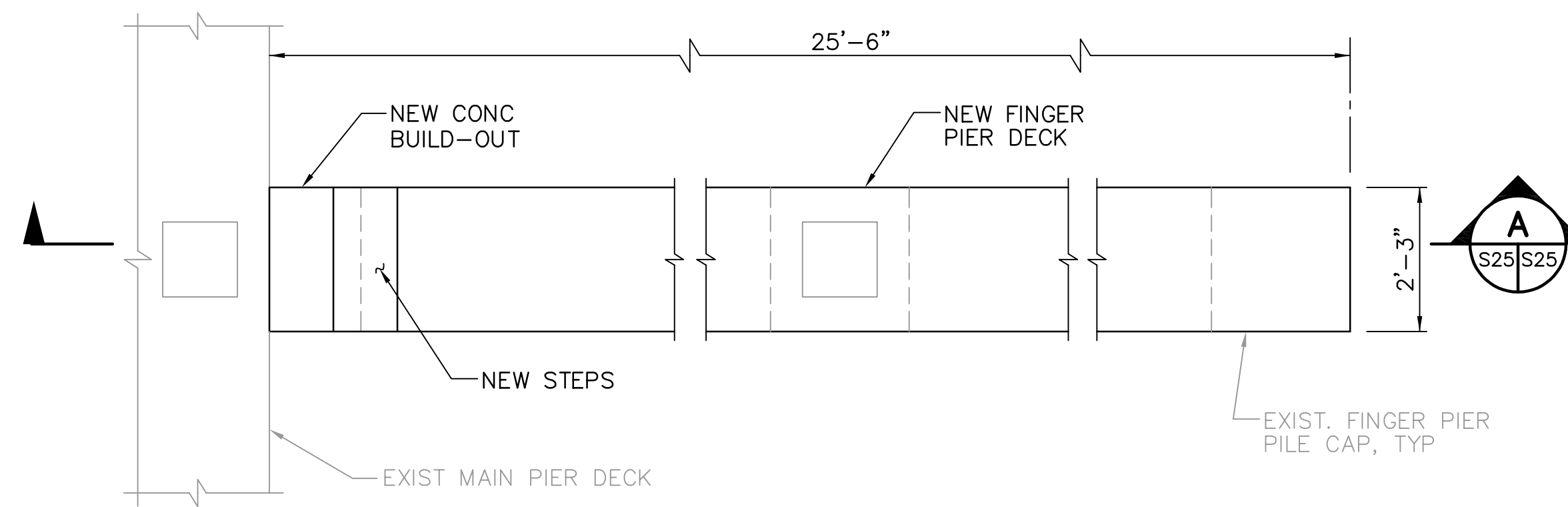
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DECK REPLACEMENT DETAILS
SHEET 1 OF 2

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-39
 SHEET No.: **S24**

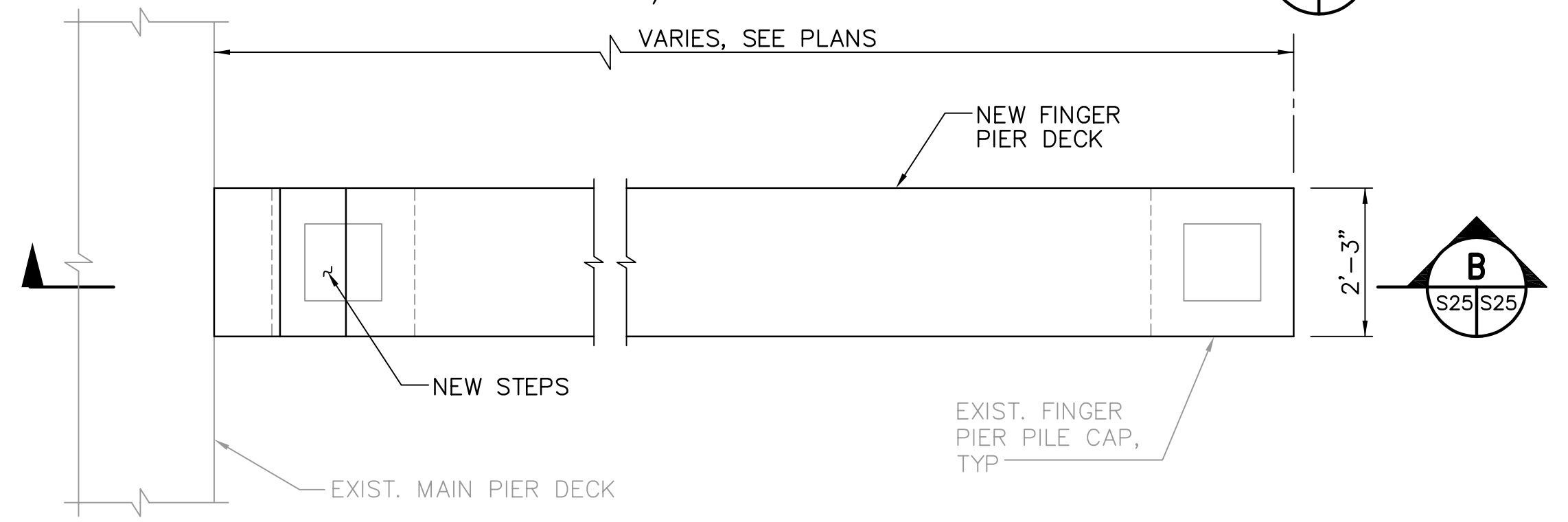
RECORD DRAWING
 ISSUED 08 AUGUST 2007

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

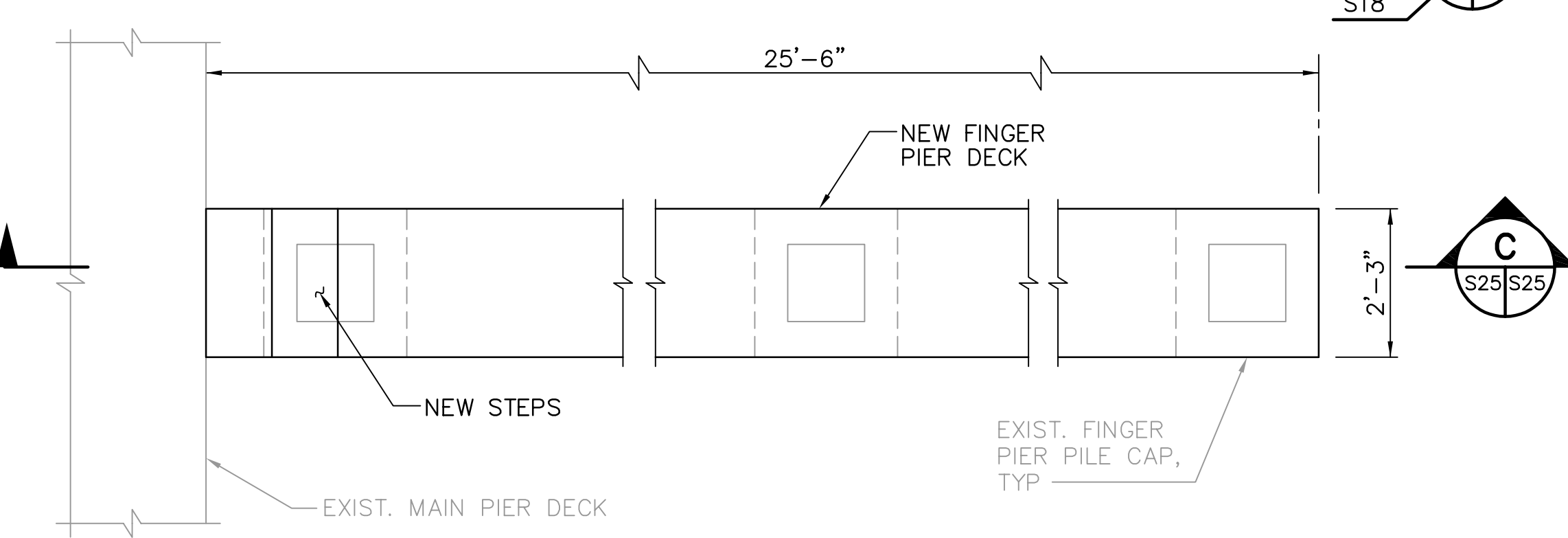
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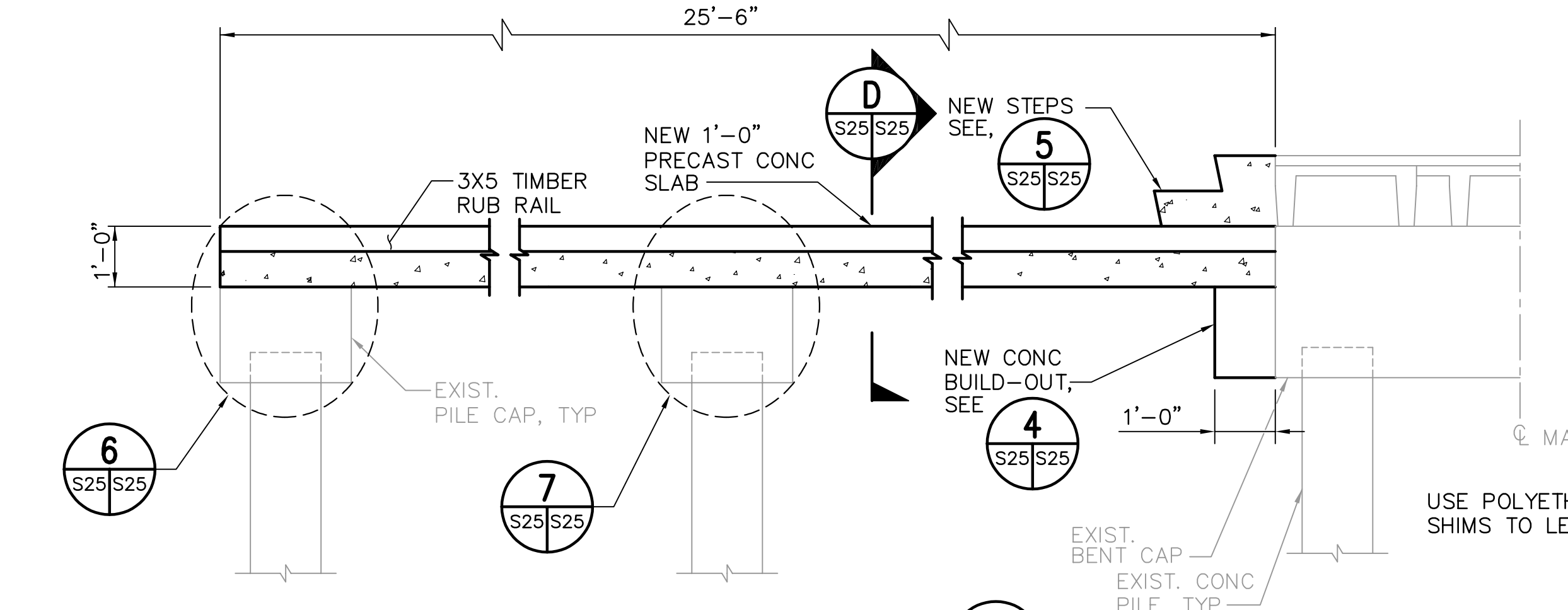
NORTH DOCKS NS FINGER PIER REPLACEMENT DETAIL
 1/2"=1'-0" (S19/S25)



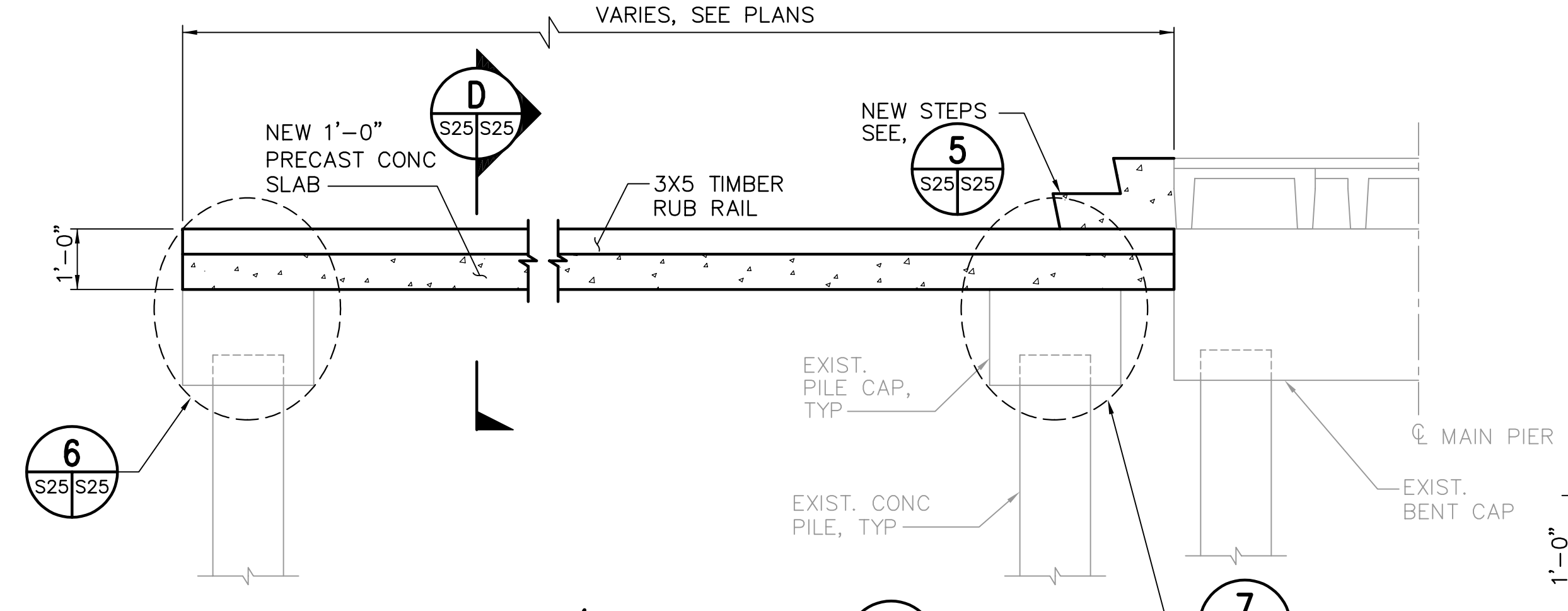
WEST & NORTH DOCKS WC/NC FINGER PIER REPLACEMENT DETAIL
 1/2"=1'-0" (S17/S25)



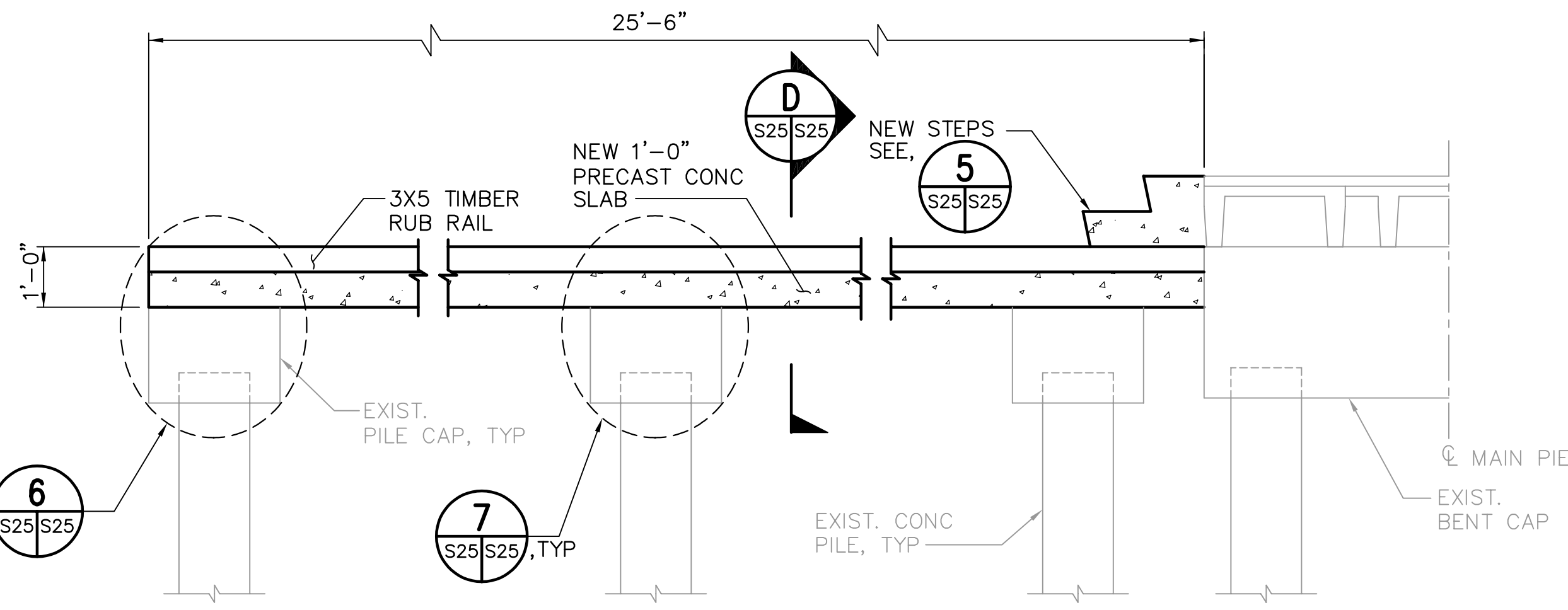
NORTH DOCKS NB FINGER PIER REPLACEMENT DETAIL
 1/2"=1'-0" (S18/S25)



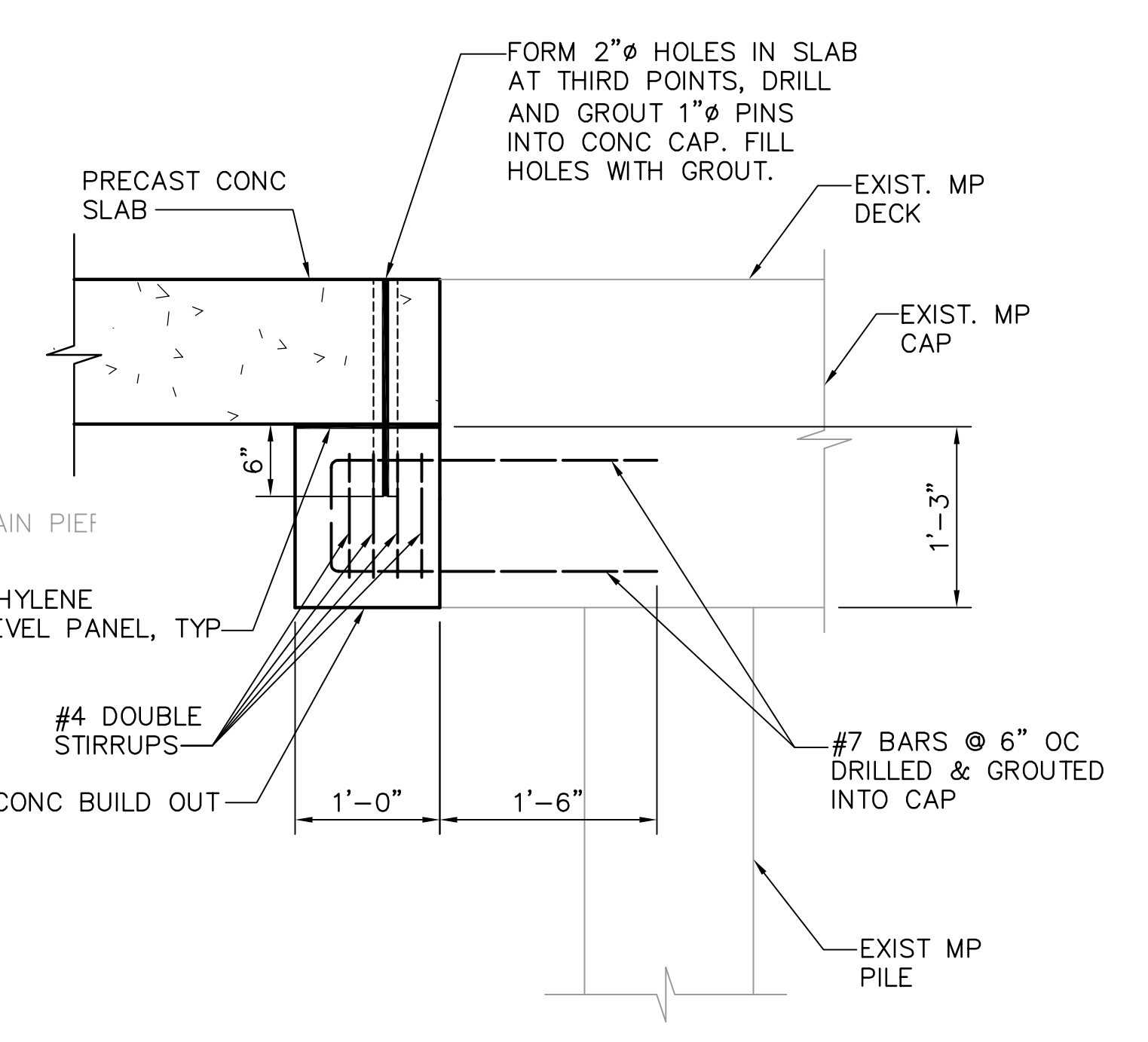
NS SECTION
 1/2"=1'-0" (S25/S25)



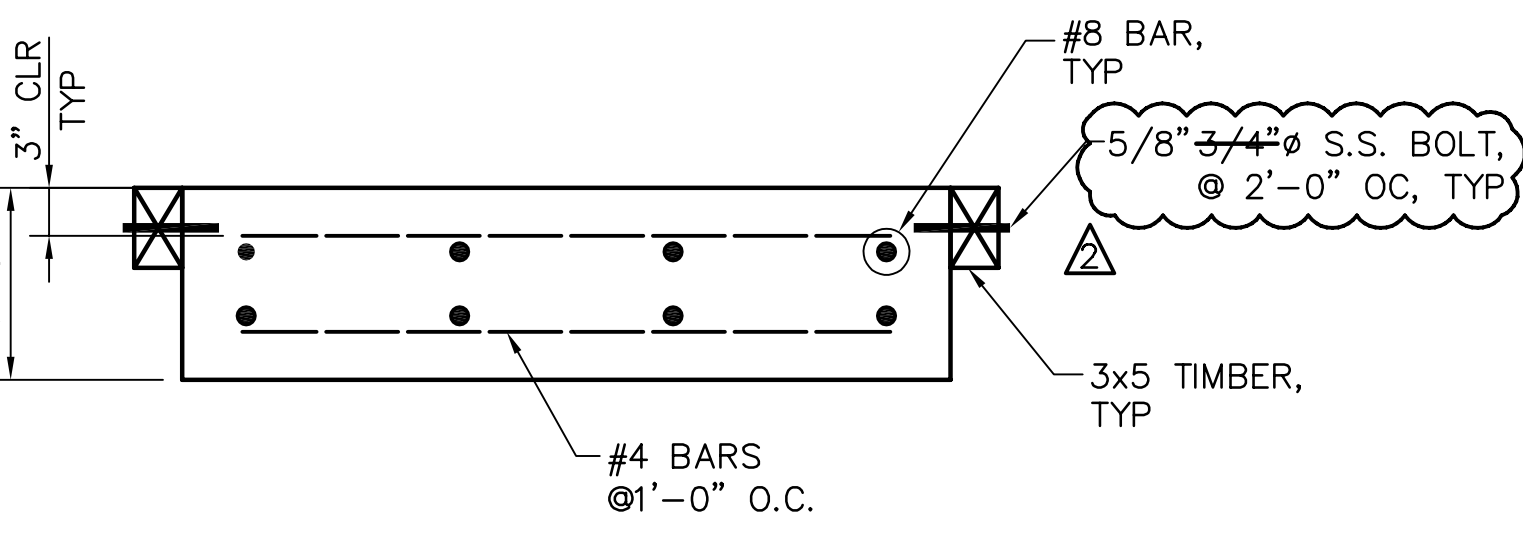
WC/NC SECTION
 1/2"=1'-0" (S25/S25)



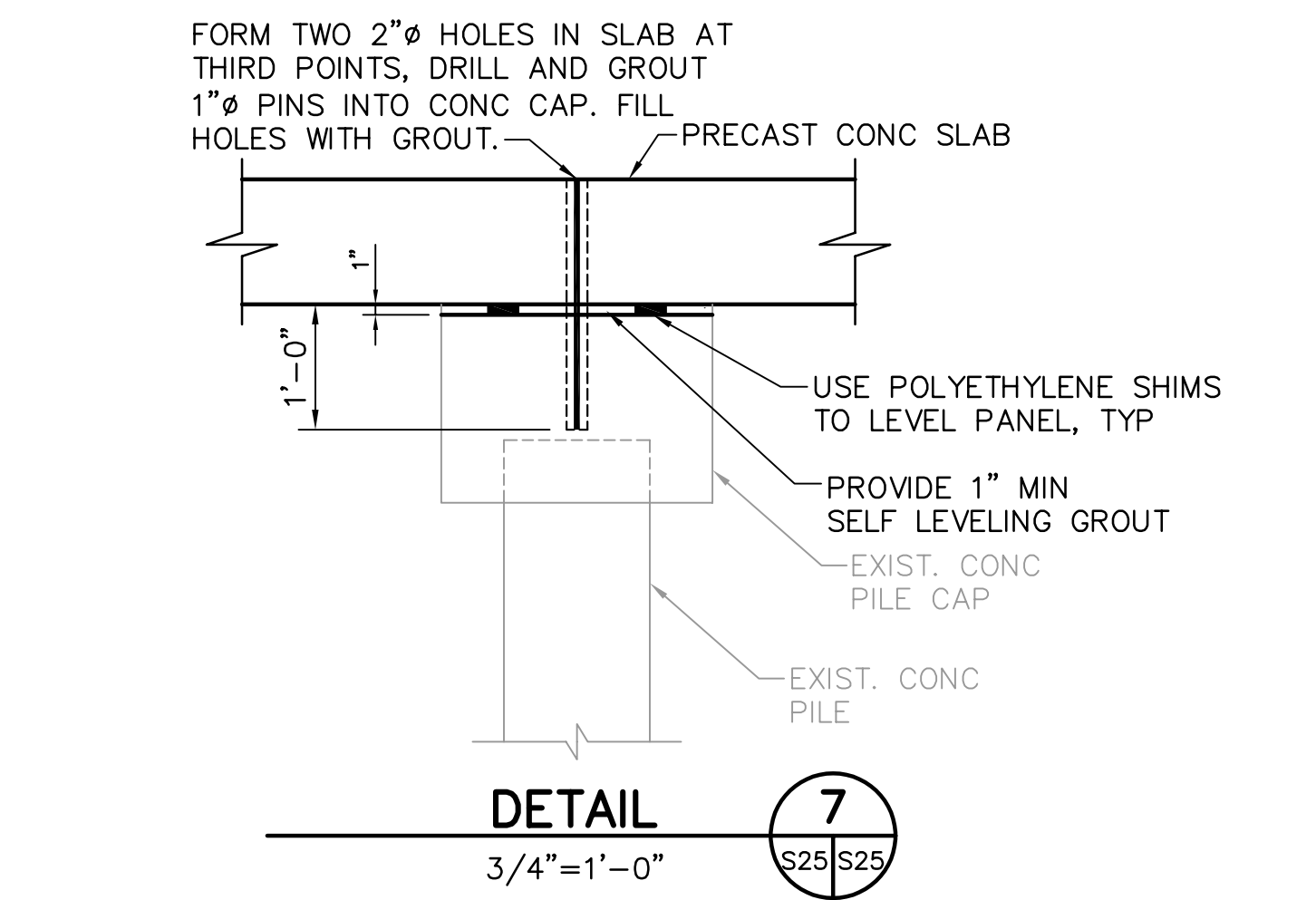
NB SECTION
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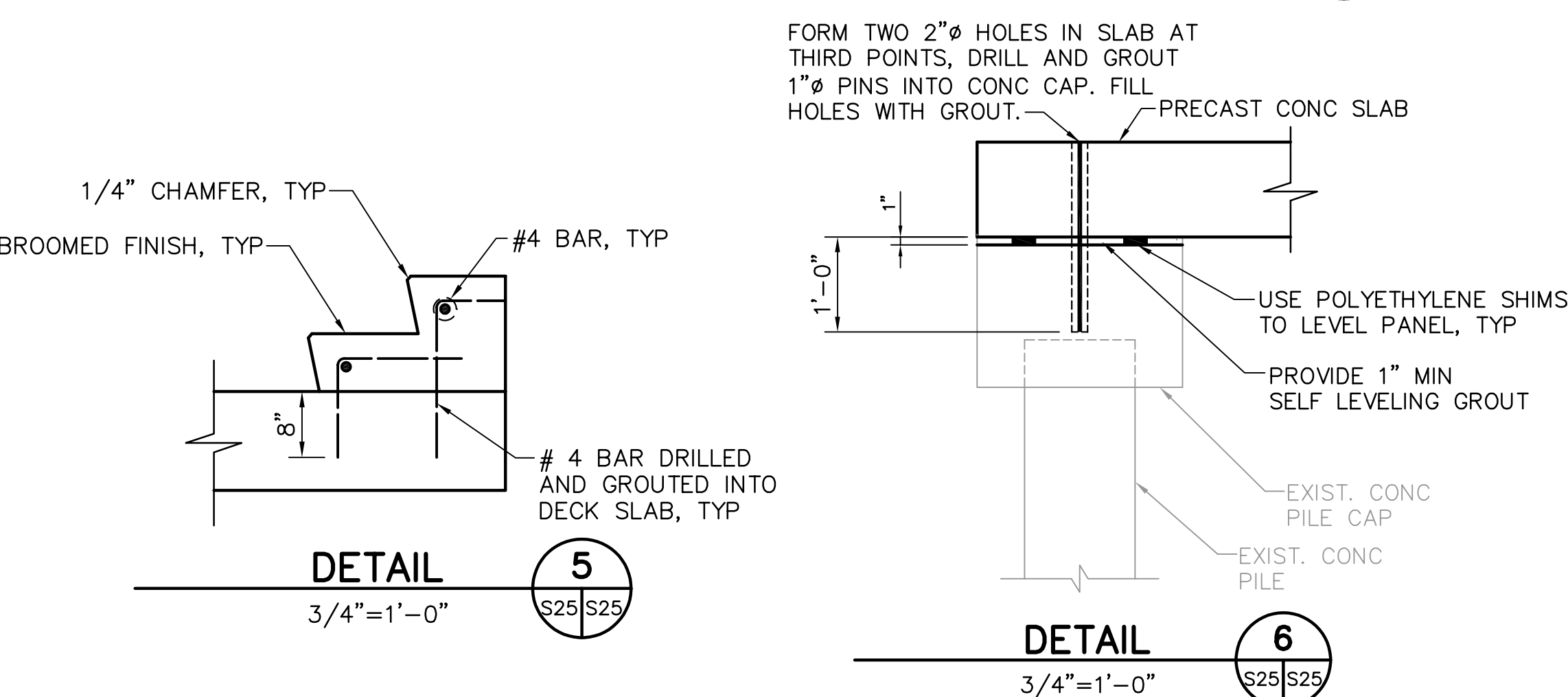
DETAIL 4
 1"=1'-0" (S25/S25)



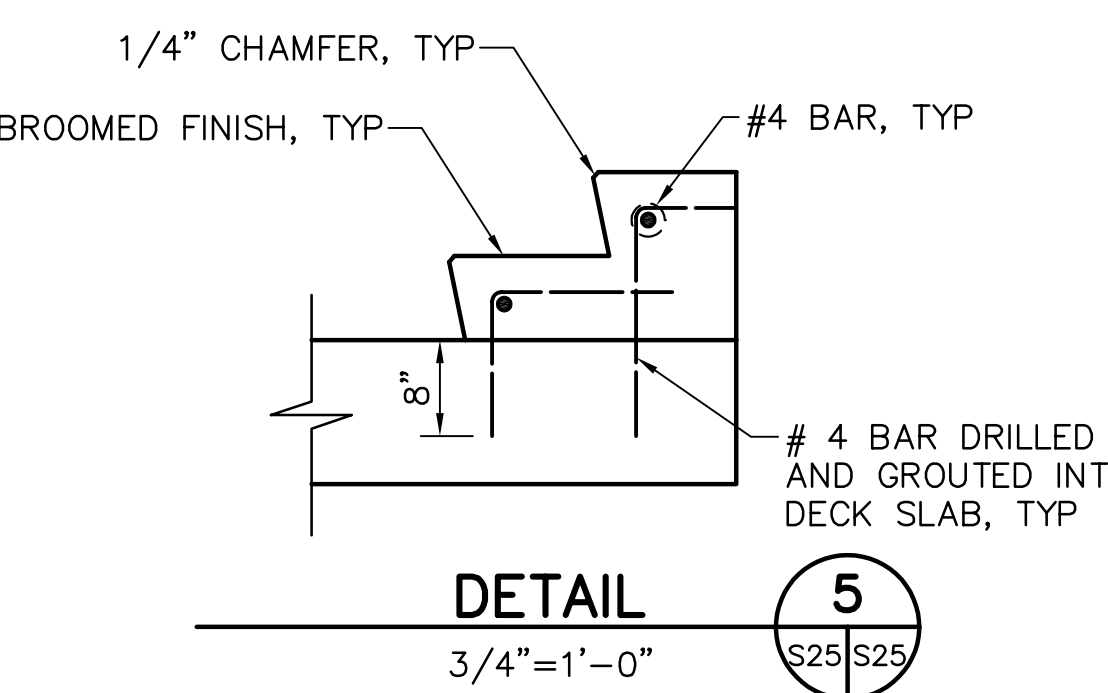
DETAIL 7
 3/4"=1'-0" (S25/S25)



DETAIL 5
 3/4"=1'-0" (S25/S25)

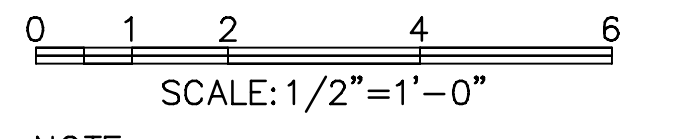


DETAIL 6
 3/4"=1'-0" (S25/S25)



DETAIL 5
 3/4"=1'-0" (S25/S25)

- NOTES:**
- CONTRACTOR SHALL ROUGHEN CONTACT SURFACE OF EXISTING CONCRETE TO A MINIMUM 1/4" AMPLITUDE.
 - CONTRACTOR SHALL COAT CONTACT SURFACES OF EXISTING CONCRETE WITH EPOXY BONDING COMPOUND.
 - CONTRACTOR SHALL FILL VOIDS WITH EPOXY GROUT.



NOTE:
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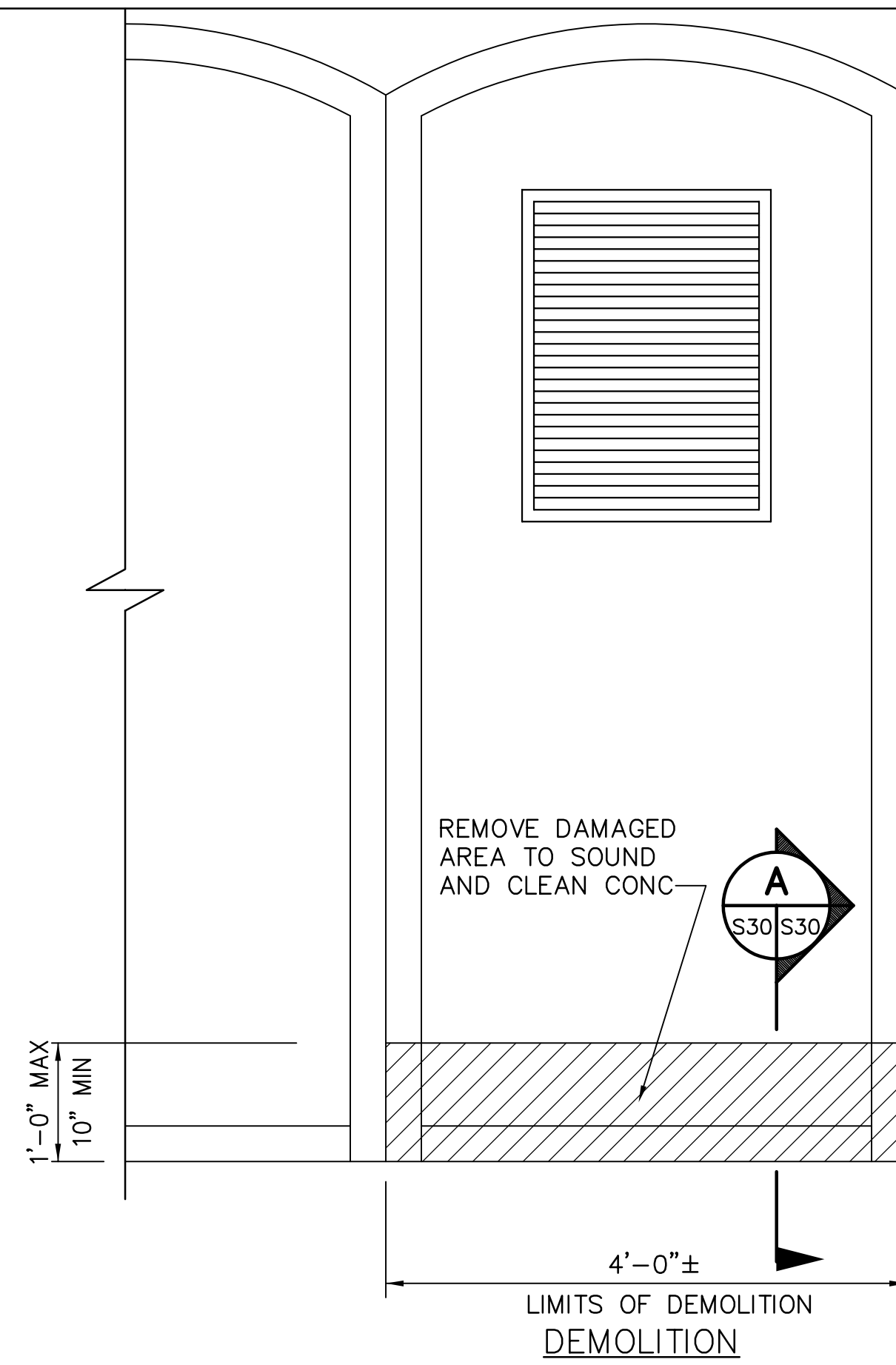
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 813-258-8818
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 CITY OF ST. PETERSBURG

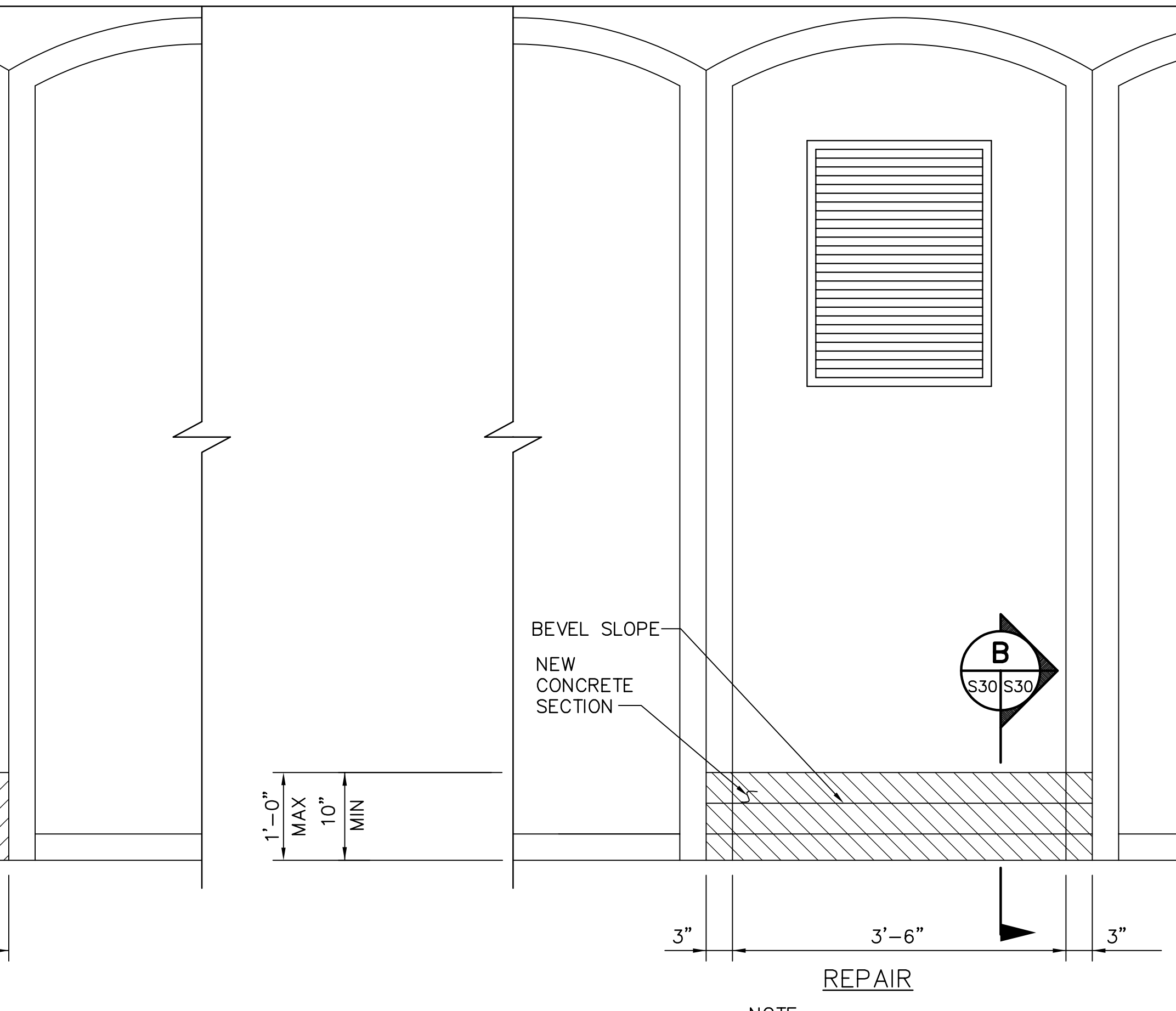
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
DECK REPLACEMENT DETAILS
SHEET 2 OF 2

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-40
 SHEET No.: **S25**

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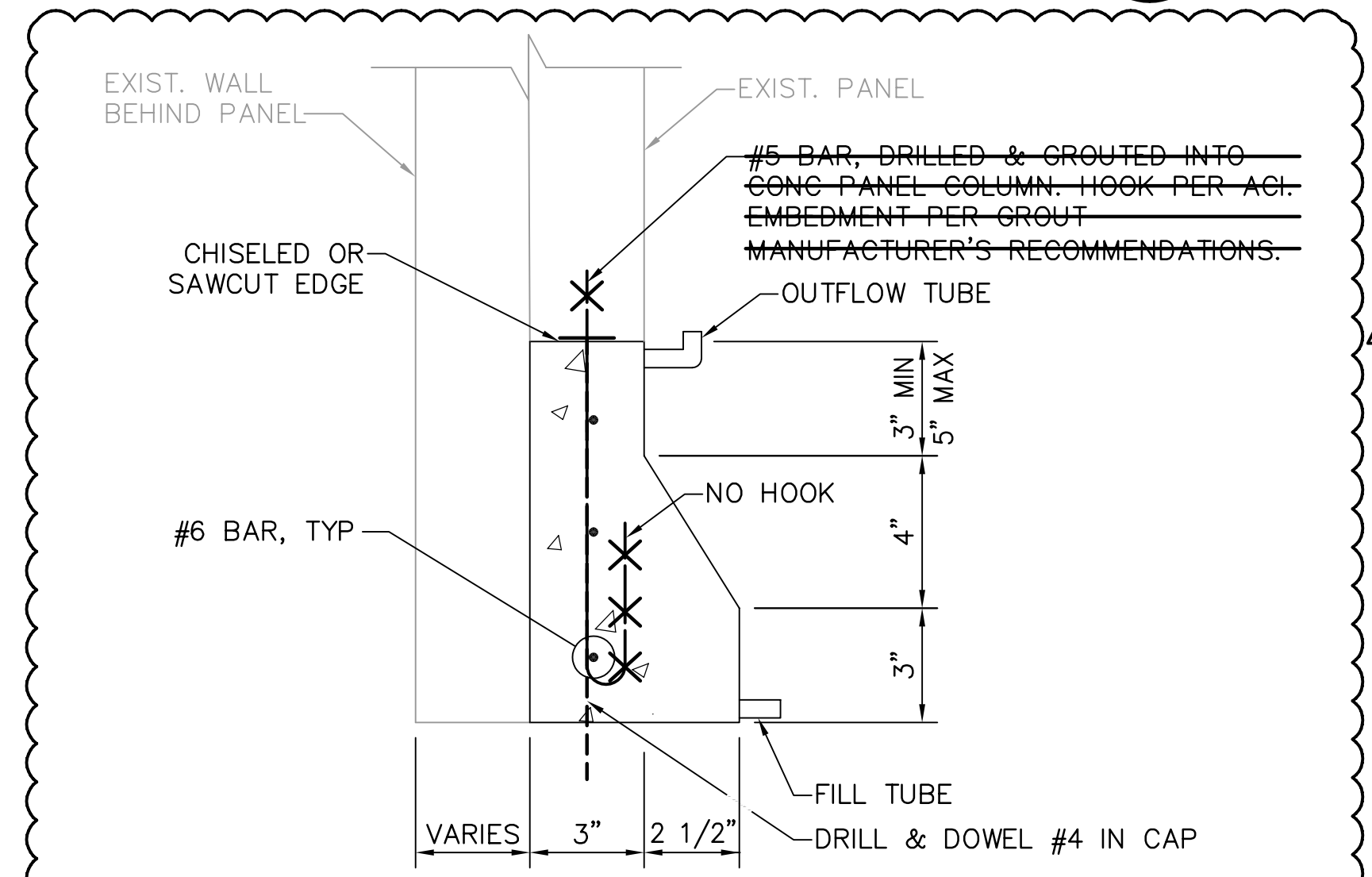


NOTE:
CLEAN EXISTING REINFORCEMENT BEFORE REPAIRING BUILDOUT PER SPECIFICATIONS.



NOTE:
REPAIR EACH PANEL SEPARATELY.

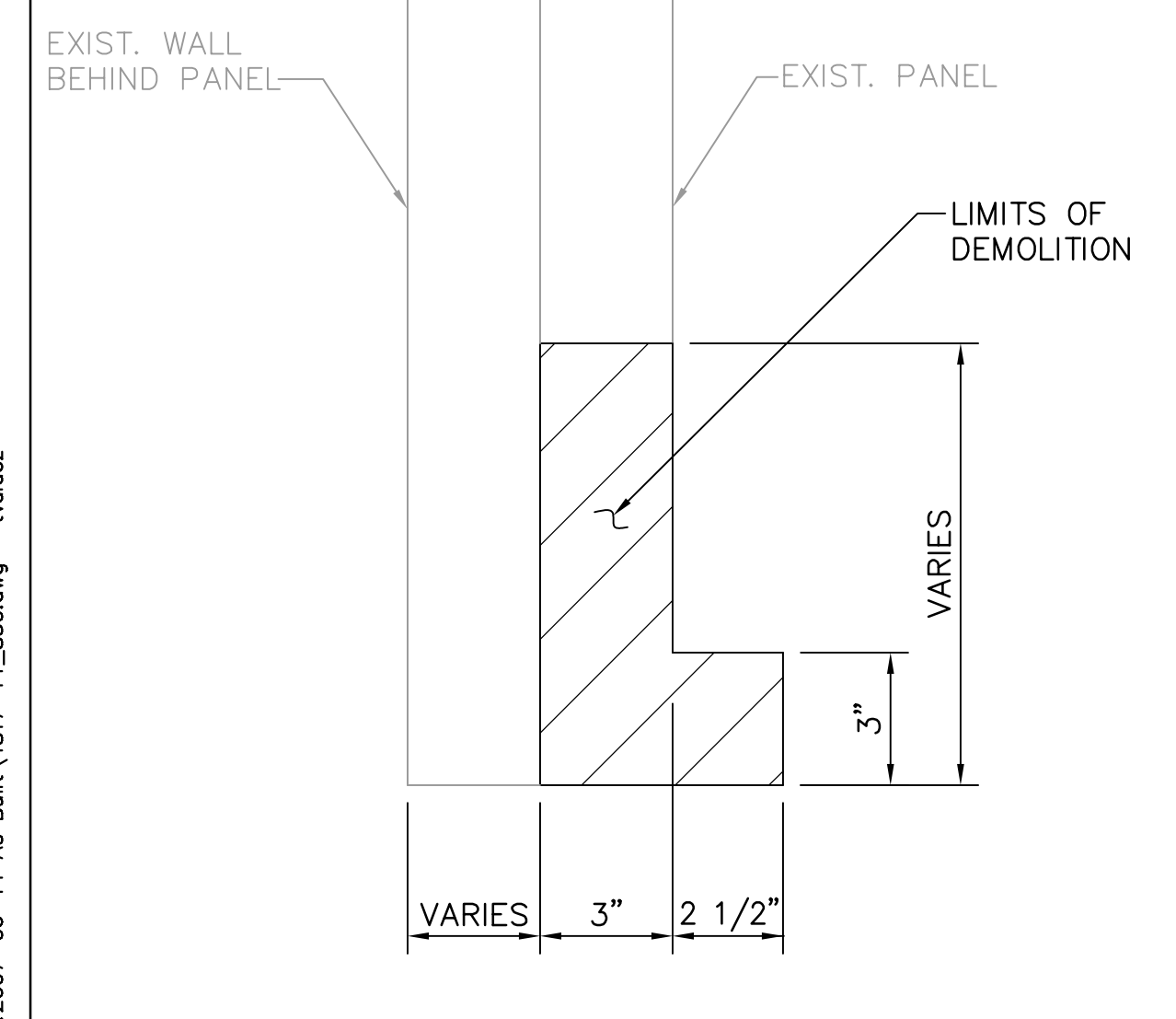
PRECAST WALL PANEL ENCASEMENT DETAIL 1
NTS



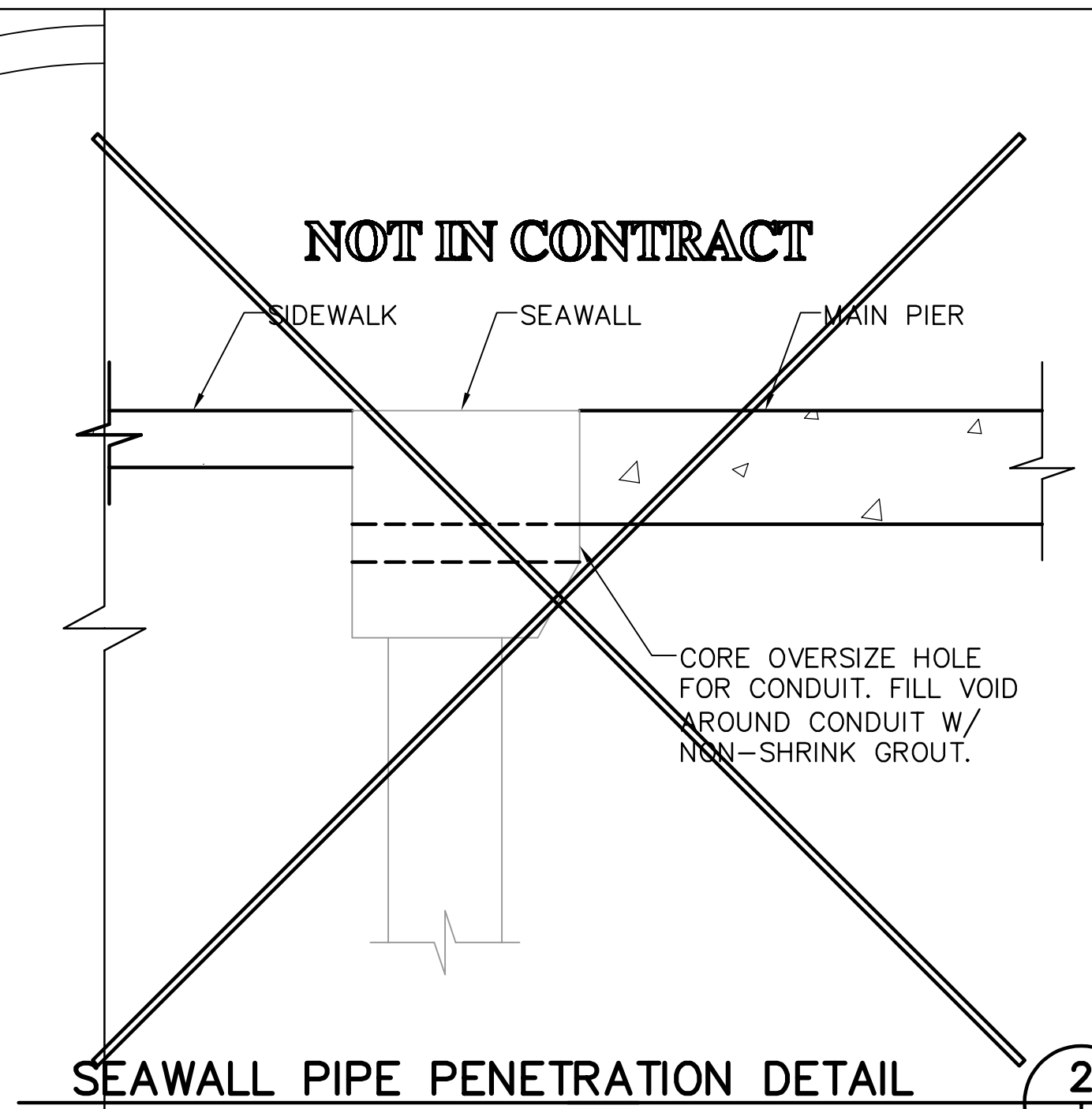
NOTES:

- USE FLOWABLE CONCRETE FOR REPAIR. CONCRETE SHALL BE CLASS IV, DRILLED SHAFT, CONCRETE WITH TYPE II CEMENT WITH FLY ASH OR SLAG IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 346. SEE SPECIFICATION 03930.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN AND PLACEMENT AND FORMWORK TO OWNER FOR APPROVAL.
- DEMOLITION AND REPAIR DIMENSIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. VALUES GREATER THAN THOSE SHOWN SHALL BE APPROVED BY ENGINEER.

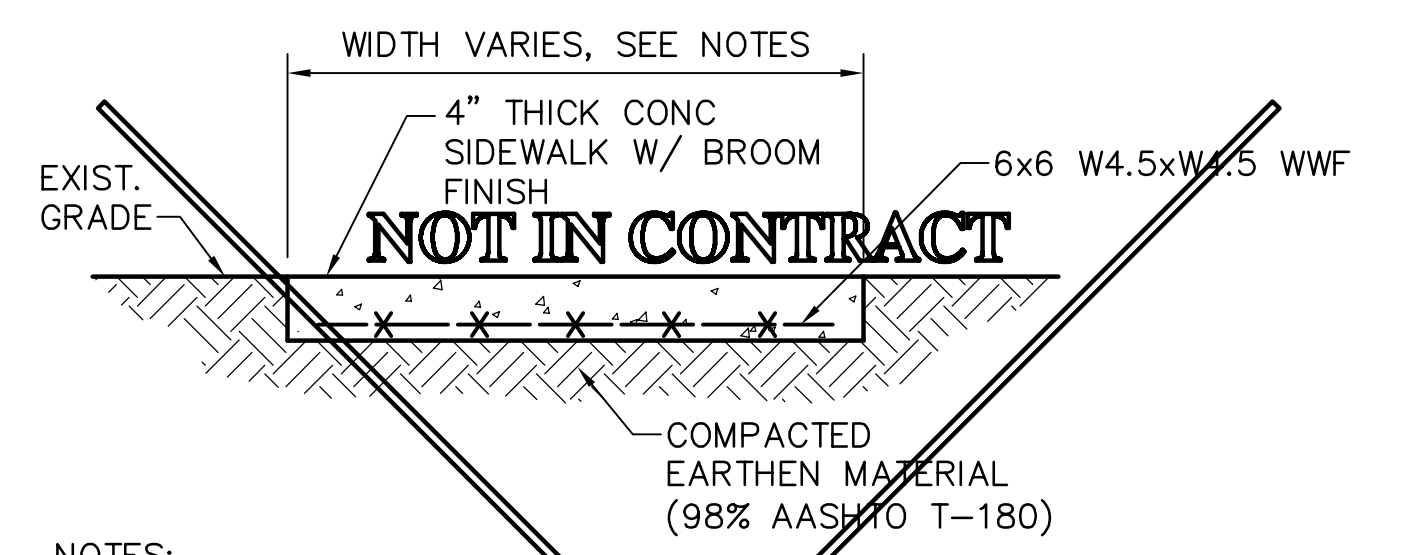
PANEL ENCASEMENT SECTION B
NTS



PANEL DEMOLITION SECTION A
NTS



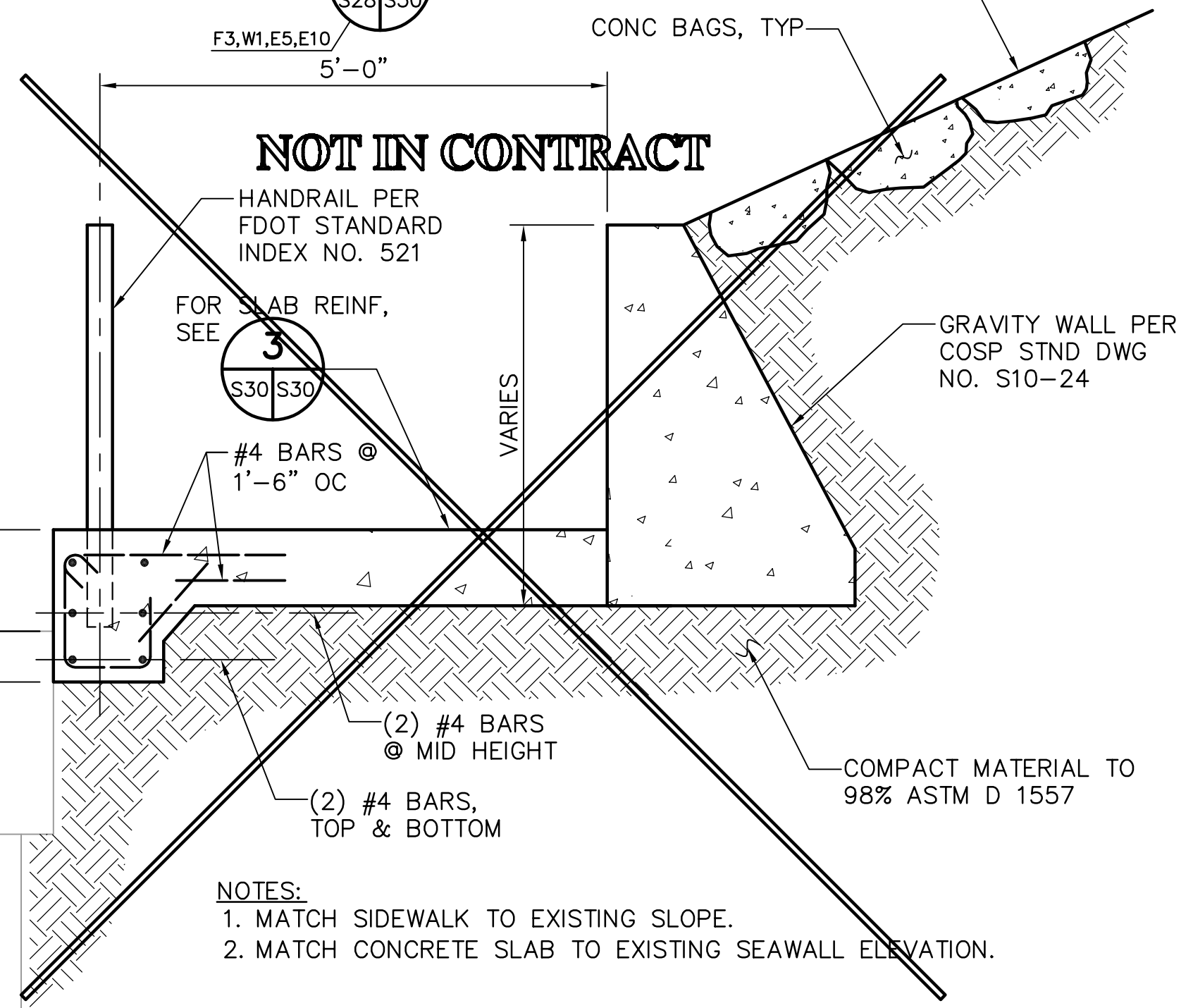
SEAWALL PIPE PENETRATION DETAIL 2
NTS



NOTES:

- PROVIDE EXPANSION JOINT BETWEEN SIDEWALK AND SEAWALL CAP.
- SIDEWALK SLOPE SHALL NOT EXCEED 2%.
- TRANSITION 6'-0" WIDE SIDEWALK TO MATCH 8'-0" MAIN PIER WITHIN 12 LINEAR FEET.
- EXPANSION JOINTS SHALL BE INSTALLED AT 50' MAXIMUM SPACING.
- EXPANSION JOINTS SHALL CONSIST OF CONTINUOUS 1/2"x6" MINIMUM, BITUMINOUS EXPANSION STRIP.
- CONTROL JOINTS SHALL BE TOOLED 3/4" DEEP AND EVENLY SPACED BETWEEN EXPANSION JOINTS, BUT NOT EXCEEDING 6'-0".

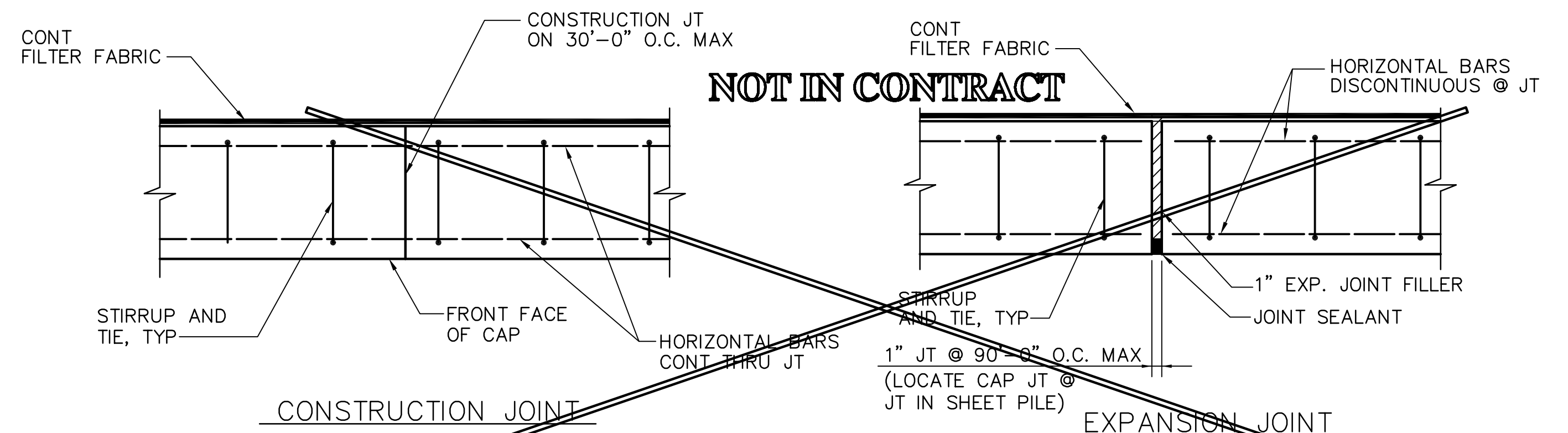
CONCRETE SIDEWALK DETAIL 3
1"=1'-0"



SIDEWALK SECTION C
3/4"=1'-0"

NOTES:

- MATCH SIDEWALK TO EXISTING SLOPE.
- MATCH CONCRETE SLAB TO EXISTING SEAWALL ELEVATION.



JOINT DETAILS 4
NTS

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

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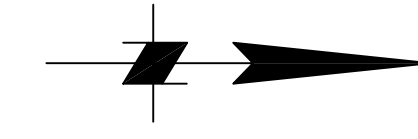
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CITY OF ST. PETERSBURG
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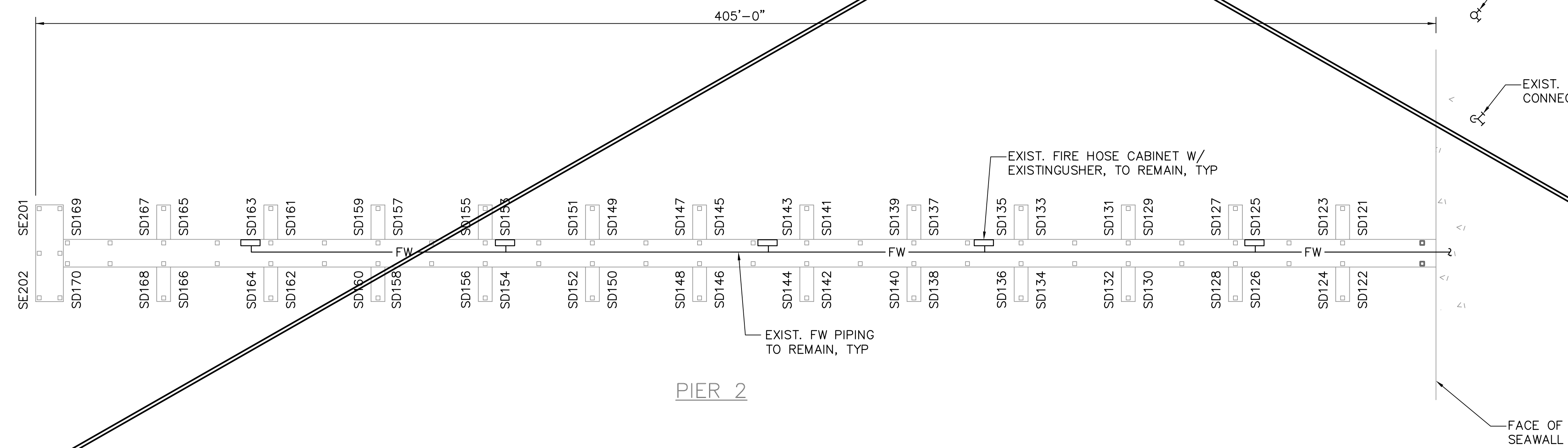
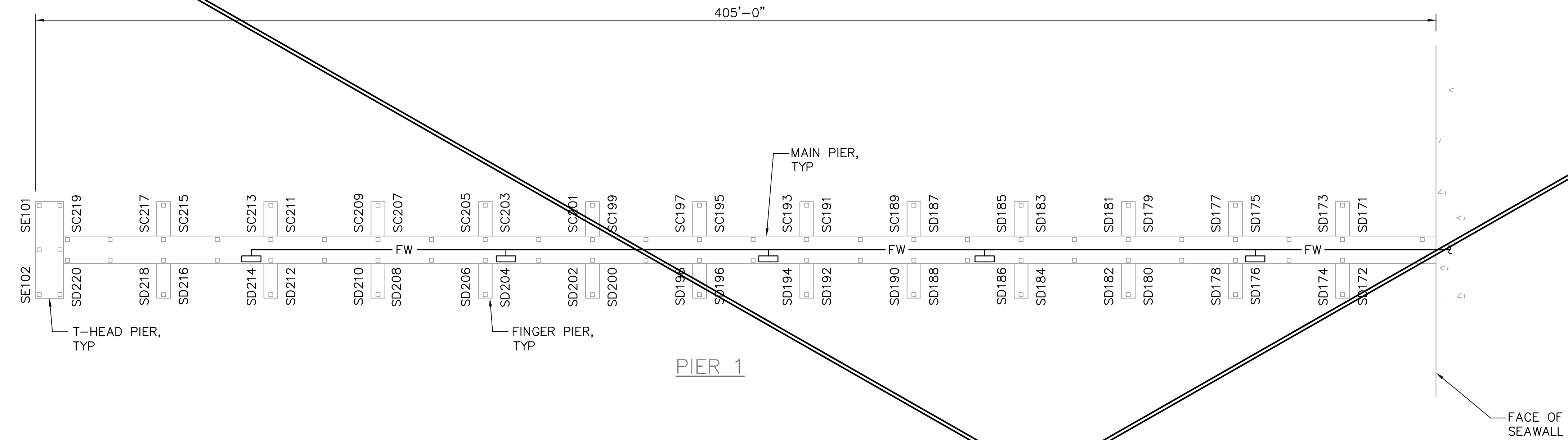
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
MISCELLANEOUS DETAILS

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-45
SHEET No.: **S30**



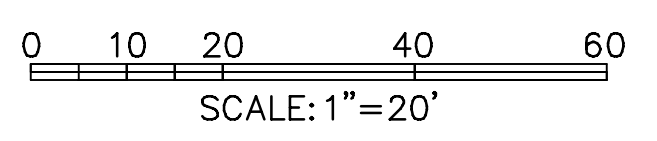
NOTES

1. VERIFY AREAS AROUND AND ON HYDRANTS, FIRE DEPARTMENT CONNECTIONS AND FIRE HOSE CABINETS ARE CLEAR OF BRUSH AND DEBRIS FOR QUICK IDENTIFICATION AND ACCESS.
2. VERIFY FHC RISER PIPE IS SUPPORTED BY PIPE SUPPORTS AT OR UNDER THE DECK. THE PIPE IS NOT TO CONTACT THE CABINET OR IMPART ANY LOAD ONTO THE CABINET TO ASSURE THE CABINET DOES NOT DEFORM AND THE ACCESS DOOR REMAINS PROPERLY ALIGNED FOR EASY ACCESS.
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FIREWATER PLAN—SOUTH DOCKS 1
 1"=20'

**SHEET DELETED
FROM CONTRACT**



NOTE:
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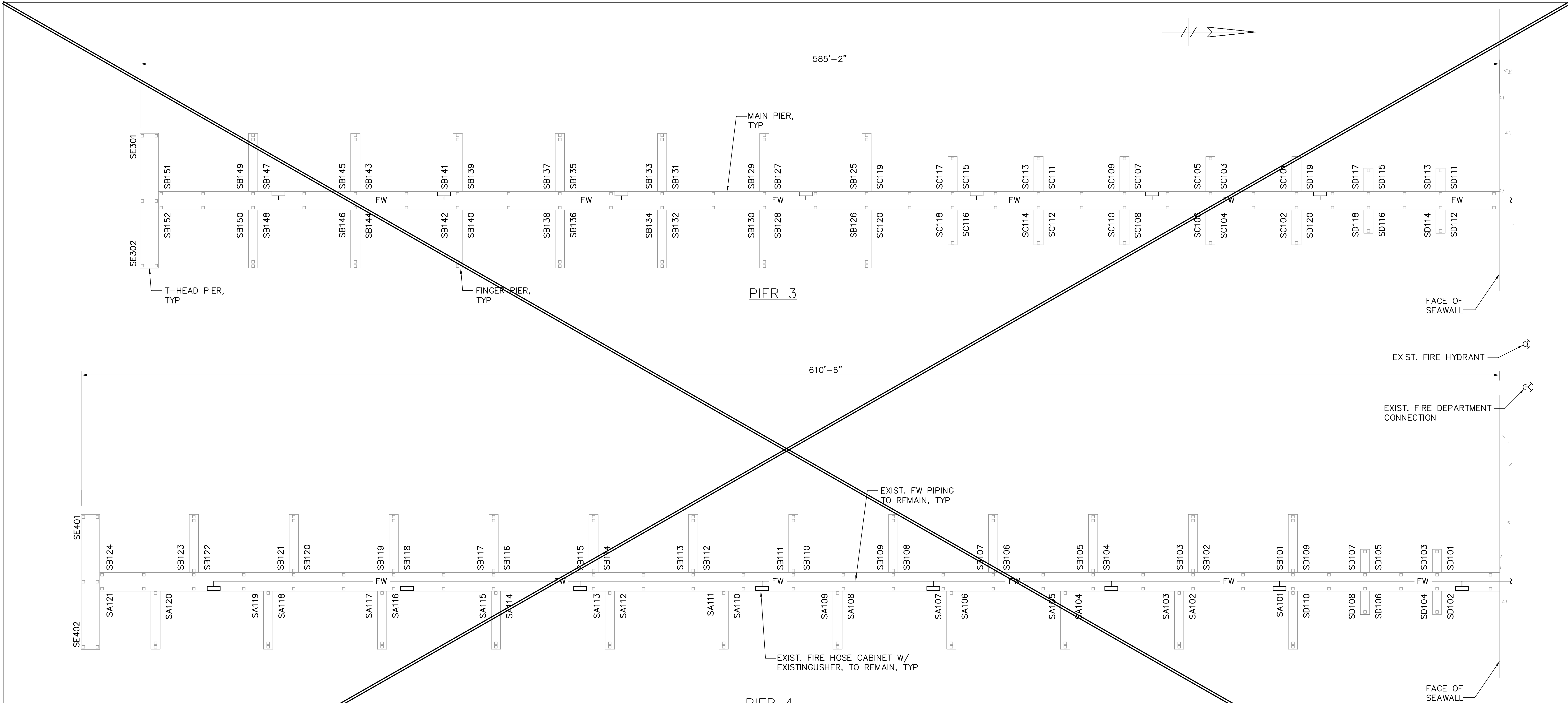
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ENGINEERS**
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 CITY OF ST. PETERSBURG

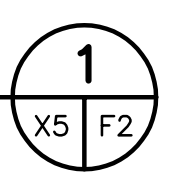
**MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
 FIREWATER PLAN SOUTH DOCKS
 SHEET 1 OF 2**

DATE: 06-24-05	DRAWING No.: 10175-46
SCALE: AS SHOWN	SHEET No.: F1

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745



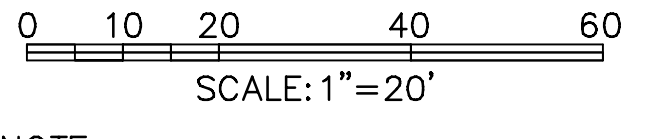
FIREWATER PLAN-SOUTH DOCKS
 1"=20'



NOTES

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 ISSUED 08 AUGUST 2007

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CHECKED BY: JM	DATE: 02/04			
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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER PLAN SOUTH DOCKS
SHEET 2 OF 2

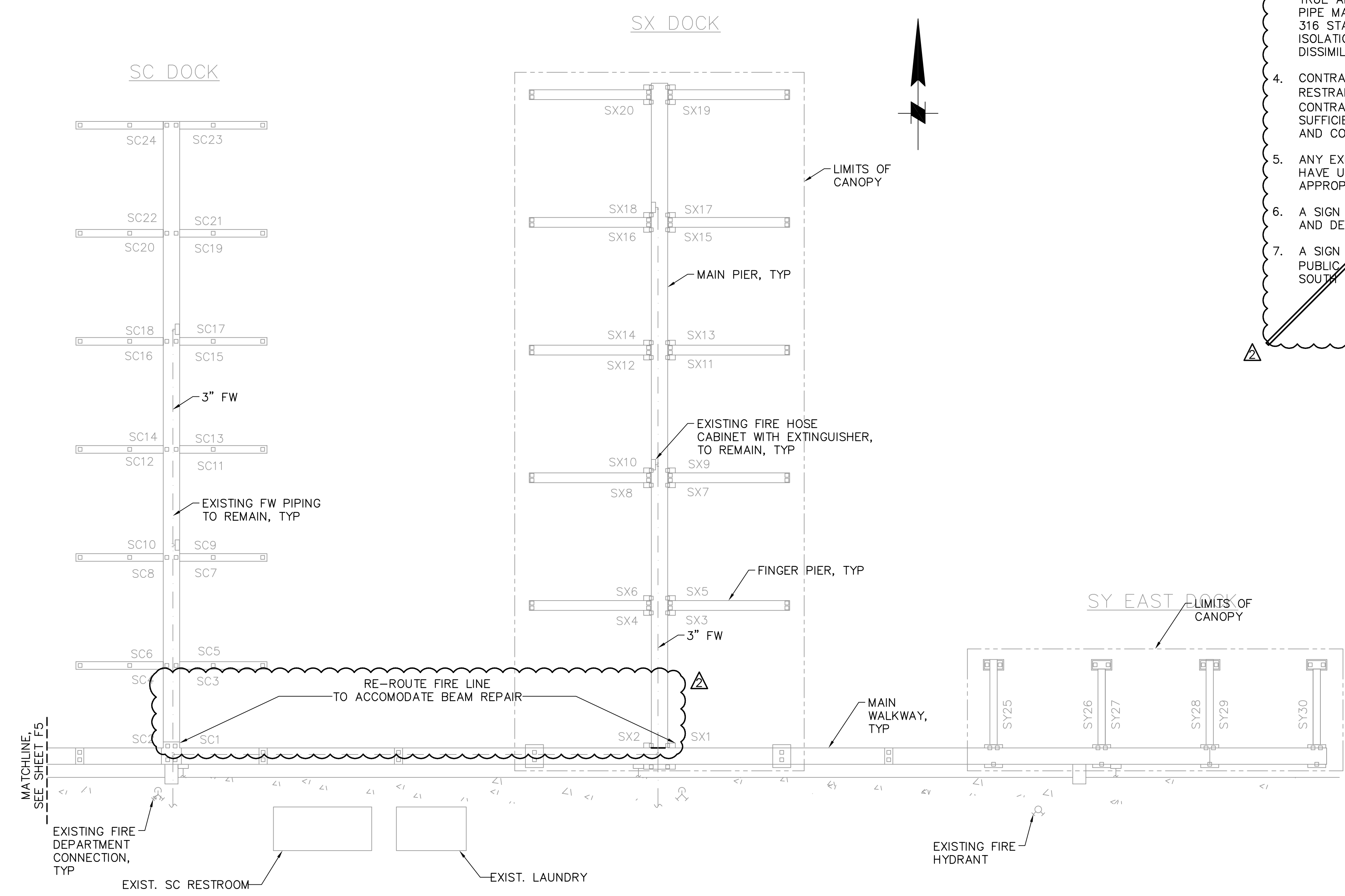
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 SHEET No.: **F2**

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NOT IN CONTRACT

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6. A SIGN SHALL BE POSTED AT THE FIRE DEPARTMENT CONNECTIONS TO INCREASE AND DECREASE PUMPER TRUCK PRESSURE SLOWLY.
7. A SIGN SHALL BE POSTED AT THE ENTRANCES OF THE CENTRAL DOCKS NOTING PUBLIC ACCESS PHONES ARE AVAILABLE AT THE DOCK MASTER'S OFFICE AT THE SOUTH DOCKS.



FIREWATER PLAN – CENTRAL DOCKS

1
X5 | F4

1"=20'

0 10 20 40 60
SCALE: 1"=20'

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ISSUED 06 AUGUST 2007

DESIGNED BY: JH	DATE: 02/04	REVISIONS	BY	DATE
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FIELD BOOK No.	PAGE THRU			
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		RECORD DRAWINGS	TV	07.27.07

MOFFATT & NICHOL
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1509 W. SWANN AVENUE, SUITE 225
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813-258-8818
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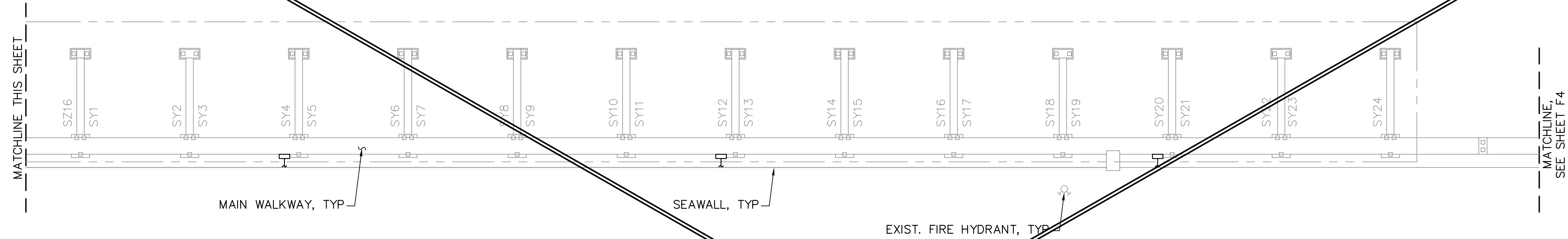
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

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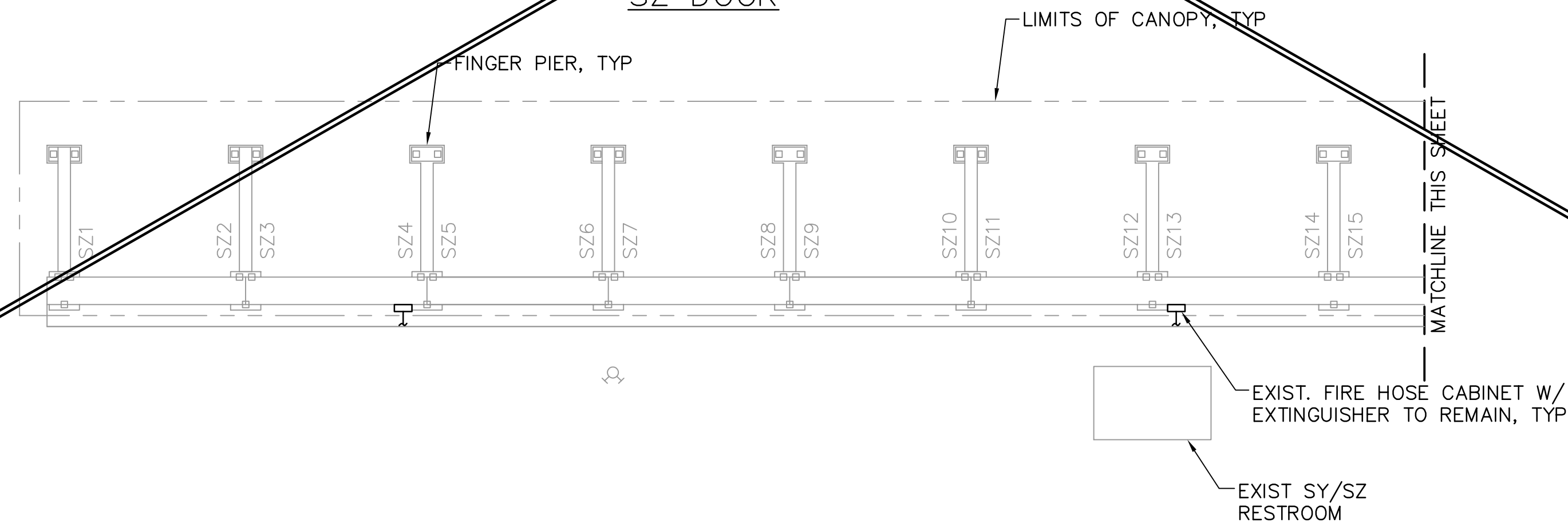
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER PLAN CENTRAL DOCKS
SHEET 1 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-49
SHEET No.: **F4**

SY EAST DOCK



SZ DOCK



NOTES

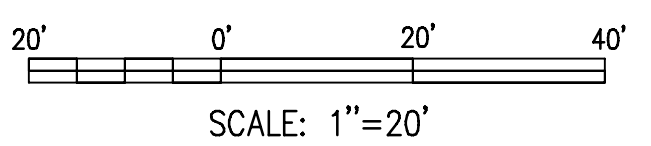
1. VERIFY AREAS AROUND AND ON HYDRANTS, FIRE DEPARTMENT CONNECTIONS AND FIRE HOSE CABINETS ARE CLEAR OF BRUSH AND DEBRIS FOR QUICK IDENTIFICATION AND ACCESS.
2. VERIFY FHC RISER PIPE IS SUPPORTED BY PIPE SUPPORTS AT OR UNDER THE DECK. THE PIPE IS NOT TO CONTACT THE CABINET OR IMPART ANY LOAD ONTO THE CABINET TO ASSURE THE CABINET DOES NOT DEFORM AND THE ACCESS DOOR REMAINS PROPERLY ALIGNED FOR EASY ACCESS.
3. VERIFY THE EXISTING PIPING IS PROPERLY SUPPORTED SO PIPING ALIGNMENT IS TRUE AND PIPE SPANS DO NOT EXCEED THAT NOTED ON DRAWING X3 FOR THE PIPE MATERIAL. IF ADDITIONAL PIPE SUPPORTS ARE REQUIRED, THEY SHALL BE 316 STAINLESS STEEL, UL LISTED OR APPROVED BY THE CITY. A DIELECTRIC ISOLATION MATERIAL SHALL BE INSTALLED BETWEEN WHERE PIPE AND SUPPORT OF DISSIMILAR MATERIALS CONTACT.
4. CONTRACTOR SHALL CONFIRM THE PLACEMENT OF EFFECTIVE AXIAL RESTRAINTS/ANCHORS. IF NONE PRESENTLY EXIST FOR A DOCK SECTION, CONTRACTOR SHALL PROPOSE LOCATION(S) FOR ENGINEERS REVIEW WITH SUFFICIENT FLEXIBILITY ON BOTH SIDES OF THE ANCHOR FOR THERMAL EXPANSION AND CONTRACTION.
5. ANY EXPOSED, UNBURIED PVC PIPE MUST BE PAINTED IF THE PVC DOES NOT HAVE UV STABILIZERS. PAINT SHALL BE RED, ADHERE TO PVC AND BE APPROPRIATE FOR OUTDOOR USE.
6. A SIGN SHALL BE POSTED AT THE FIRE DEPARTMENT CONNECTIONS TO INCREASE AND DECREASE PUMPER TRUCK PRESSURE SLOWLY.
7. A SIGN SHALL BE POSTED AT THE ENTRANCES OF THE CENTRAL DOCKS NOTING PUBLIC ACCESS PHONES ARE AVAILABLE AT THE DOCK MASTER'S OFFICE AT THE SOUTH DOCKS.

FIREWATER PLAN - CENTRAL DOCKS

1"=20'

2
X5 F5

SHEET DELETED FROM CONTRACT



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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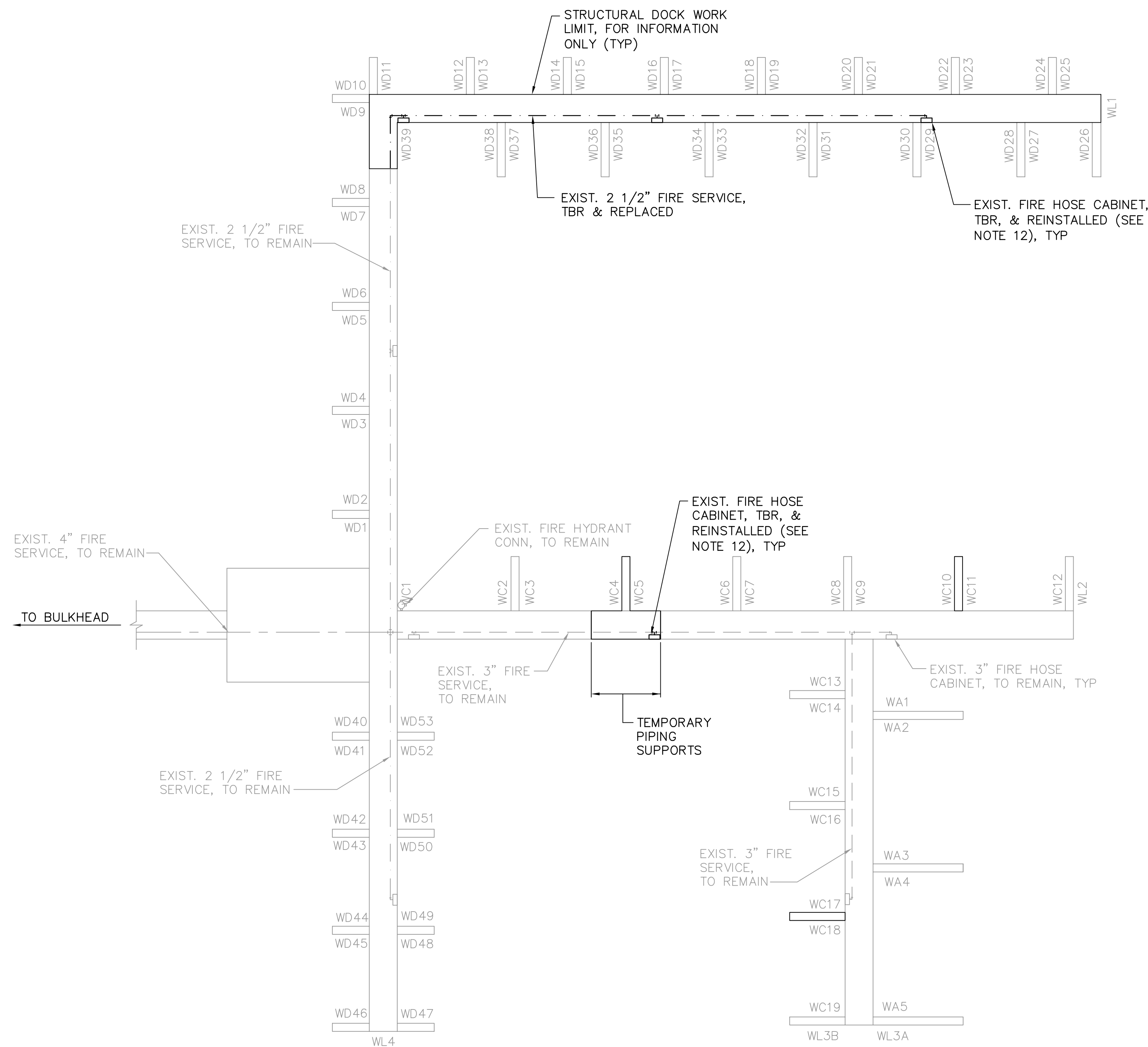
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CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER PLAN CENTRAL DOCKS
SHEET 2 OF 2

DATE: 06-24-05
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DRAWING No.: 10175-50
SHEET No.: **F5**

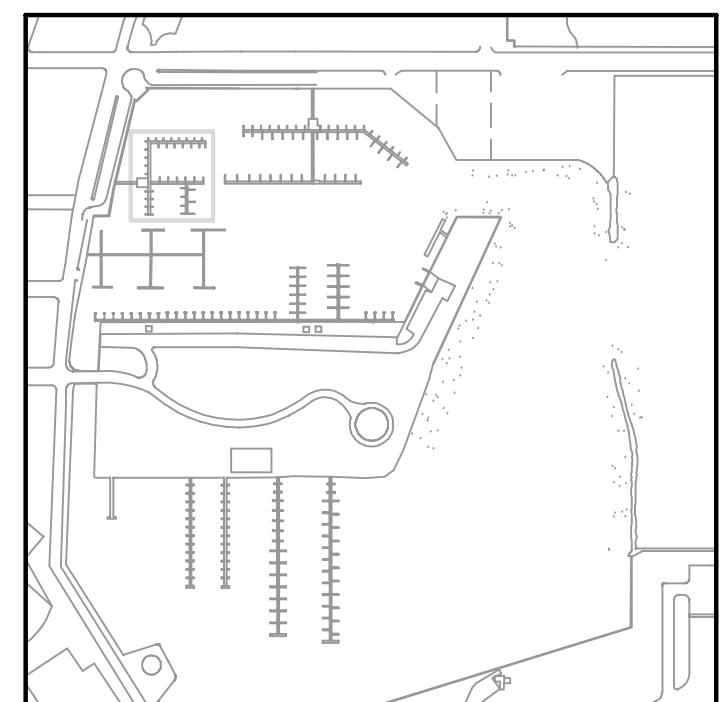
JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745



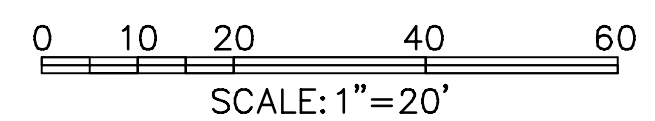
FIREWATER PLAN – WEST DOCKS
 1
 X5 F6
 1"=20'

NOTES

1. FIREWATER PIPING SHALL BE REMOVED AND REPLACED AT DOCK SECTIONS NOTED FOR REPAIR AND REPLACEMENT.
2. DOCKS NOT BEING REPLACED SHALL REMAIN IN SERVICE DURING REPLACEMENT WORK IN THE AREA.
3. SERVICES SHALL REMAIN TO ALL DOCKS DOWNSTREAM OF THE DECK SECTION THAT IS TO BE REPLACED NEAR DOCKS WC4 AND WC5.
4. TEMPORARY PIPE SUPPORTS SHALL BE USED TO SUPPORT PIPING MIDSPAN OF REMOVED DOCK SECTION. MAXIMUM PIPE SPAN SHALL BE 10 FEET FOR 3" SIZE PVC PIPE, OR AS REQUIRED AS NOTED ON SHEET X3 IF OTHER THAN PVC. 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 VALVE TO THE 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 OR A NEARBY FITTING REMOVED, AND A 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 CONTRACTOR'S ACCESS.
7. ADD TAP FITTINGS OR CORPORATION STOPS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, FLUSHING, AND DRAINAGE. EXISTING VALVE IN FHC, WITHOUT THE FIRE HOSE ATTACHED, MAY BE USED FOR FLUSHING THE LINE.
8. CONNECT NEW PIPING TO EXISTING PIPING AFTER COMPLETION OF DECK REHABILITATION.
9. REPLACEMENT FW MAIN AND BRANCH PIPING BELOW DECK SHALL BE PVC, AS NOTED IN GENERAL NOTES, EXCEPT GALV STEEL PIPE W/ PROTECTIVE WRAP ABOVE DECKS AND IN FHC.
10. 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.
11. REINSTALL FIRE HOSE CABINETS AND CONTENTS IN KIND AFTER DOCK STRUCTURE REPLACEMENT. CONNECT FW BRANCHES TO FHC CONNECTION.
12. HOSE CABINETS SHALL BE REMOVED AND REINSTALLED, WHERE NOTED. ANY PVC PIPING COMPONENTS IN THE CABINET MUST BE REPLACED WITH GALV STEEL PIPING W/ PROTECTIVE WRAP AS DESCRIBED IN THE GENERAL NOTES. CONTRACTOR SHALL INSPECT EVERY FHC. IF CONTRACTOR NOTES AN INJURIOUS DEFECT OR PROBLEM WITH THE CABINET OR EQUIPMENT, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR DISPOSITION. IF CABINET REQUIRES REPLACEMENT, SEE DWG F15, DETAIL 5 FOR NEW CABINET REQUIREMENTS.
13. HYDROTEST FW LINES PER GENERAL NOTES AND PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.
14. CONTRACTOR SHALL SUPPORT FW RISER TO FHC, AS NOTED ON DWG F15, DETAIL 5. VERIFY FW PIPING IS NOT SUPPORTED BY THE CABINET.
15. 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.
16. CONTRACTOR SHALL CONFIRM THE PLACEMENT OF EFFECTIVE AXIAL RESTRAINTS/ANCHORS. IF NONE PRESENTLY EXIST FOR A DOCK SECTION, CONTRACTOR SHALL PROPOSE LOCATION(S) FOR ENGINEERS REVIEW WITH SUFFICIENT FLEXIBILITY ON BOTH SIDES OF THE ANCHOR FOR THERMAL EXPANSION AND CONTRACTION.
17. A SIGN SHALL BE POSTED AT THE ENTRANCE TO THE WEST DOCKS NOTING PUBLIC ACCESS PHONES ARE AVAILABLE AT THE ST. PETERSBURG YACHT CLUB AND THE RESTAURANT AT THE CORNER OF BAYSHORE DRIVE AND 2nd AVENUE NORTH.



KEY PLAN



NOTE:
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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

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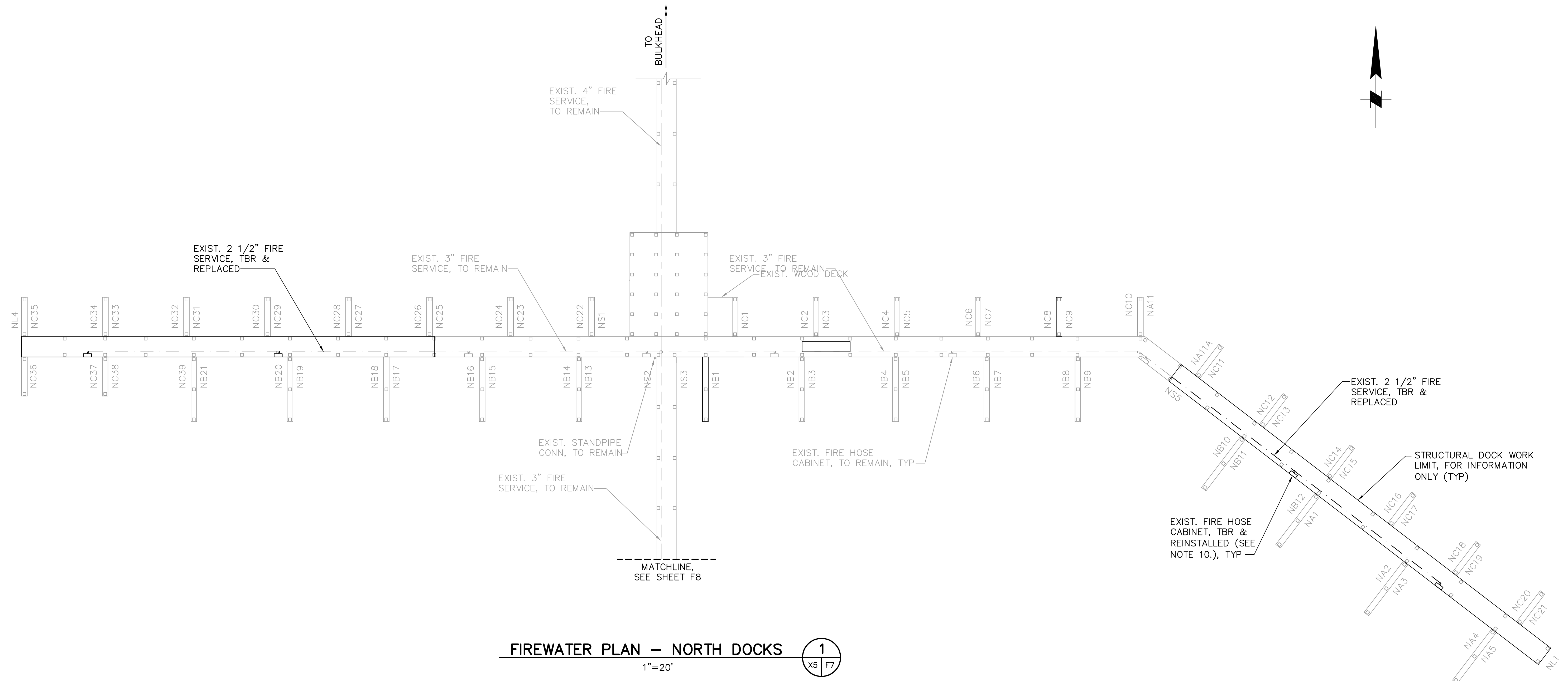
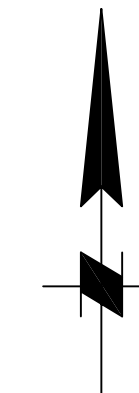
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 1509 W. SWANN AVENUE, SUITE 225
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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117

FIREWATER PLAN
WEST DOCKS

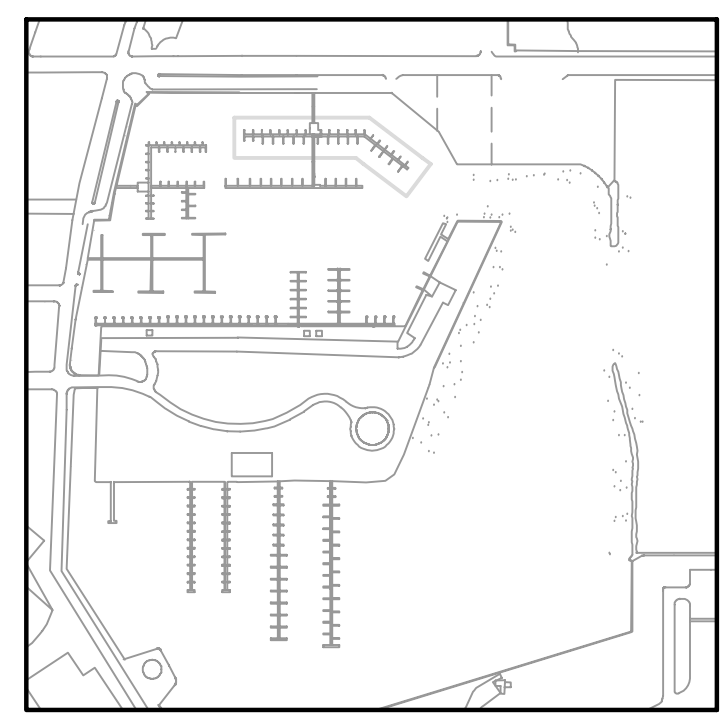
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 DRAWING No.: 10175-51
 SHEET No.: **F6**



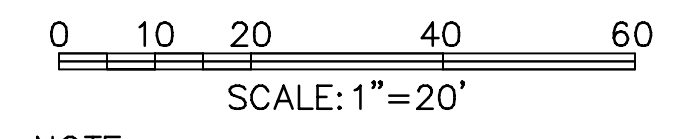
FIREWATER PLAN – NORTH DOCKS
1
1"=20'

NOTES

- FW PIPING SHALL BE REMOVED AND REPLACED AT DOCK SECTIONS NOTED FOR REPLACEMENT.
- DOCKS NOT BEING REPLACED SHALL REMAIN IN SERVICE DURING REPLACEMENT WORK IN THE AREA. PRIOR TO DECK AND STRUCTURAL DEMOLITION, ISOLATE FW LINES BY CLOSING NEAREST UPSTREAM VALVE TO THE PIPING TO BE REMOVED AND/OR REPLACED.
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- ADD TAP FITTINGS OR CORPORATION STOPS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, FLUSHING, AND DRAINAGE. EXISTING VALVE IN FHC, WITHOUT THE FIRE HOSE ATTACHED, MAY BE USED FOR FLUSHING THE LINE.
- CONNECT NEW PIPING TO EXISTING PIPING AFTER COMPLETION OF DECK REHABILITATION.
- REPLACEMENT FW MAIN AND BRANCH PIPING BELOW DECK SHALL BE PVC, AS NOTED IN THE GENERAL NOTES, EXCEPT GALV STEEL PIPING W/ PROTECTIVE WRAP ABOVE DECK AND IN FHC.
- 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.
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- HOSE CABINETS SHALL BE REMOVED AND REINSTALLED, WHERE NOTED. ANY PVC PIPING COMPONENTS IN THE CABINET MUST BE REPLACED WITH GALV STEEL PIPING W/ PROTECTIVE WRAP AS DESCRIBED IN THE GENERAL NOTES. CONTRACTOR SHALL INSPECT FHC. IF CONTRACTOR NOTES AN INJURIOUS DEFECT OR PROBLEM WITH THE CABINET OR EQUIPMENT, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR DISPOSITION. IF CABINET REQUIRES REPLACEMENT, SEE DWG F15, DETAIL 5 FOR NEW CABINET REQUIREMENTS.
- HYDROTEST FW LINES PER GENERAL NOTES AND PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.
- CONTRACTOR SHALL SUPPORT FW RISER TO FHC, AS NOTED ON DWG F15, DETAIL 5.
- 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.
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- A SIGN SHALL BE POSTED AT THE ENTRANCE TO THE NORTH DOCKS NOTING PUBLIC ACCESS PHONES ARE AVAILABLE AT THE RESTAURANT AT THE CORNER OF BAYSHORE DRIVE AND 2ND AVENUE NORTH AND AT THE STREET ON THE OPPOSITE SIDE OF THE PARKING LOT.



KEY PLAN



NOTE:
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FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

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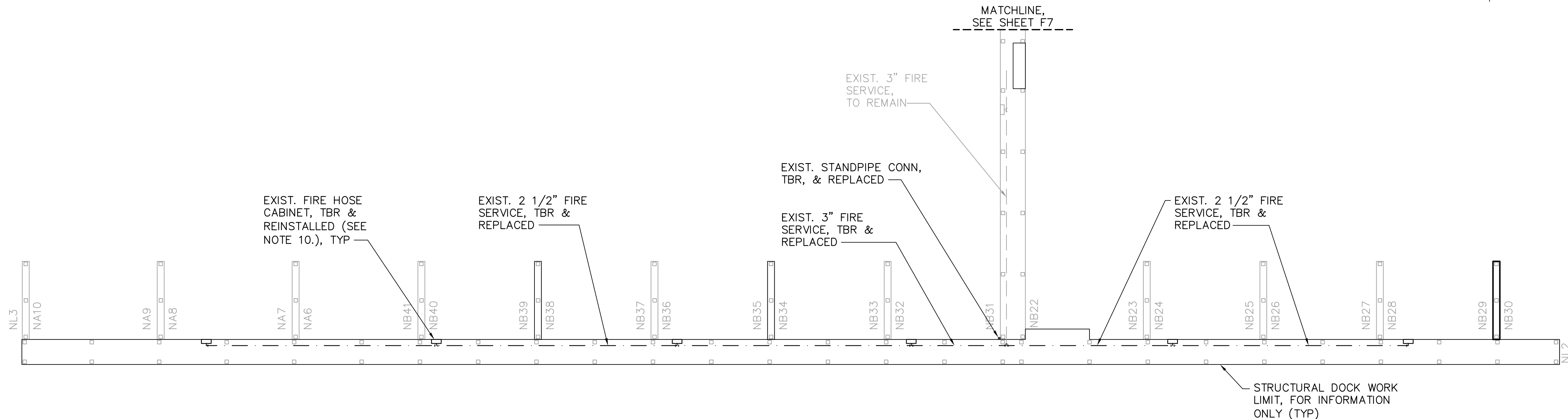
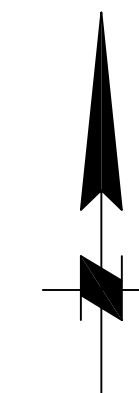
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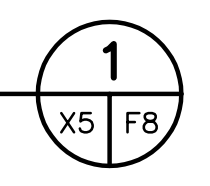
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STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER PLAN NORTH DOCKS
SHEET 1 OF 2

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-52
SHEET No.: **F7**

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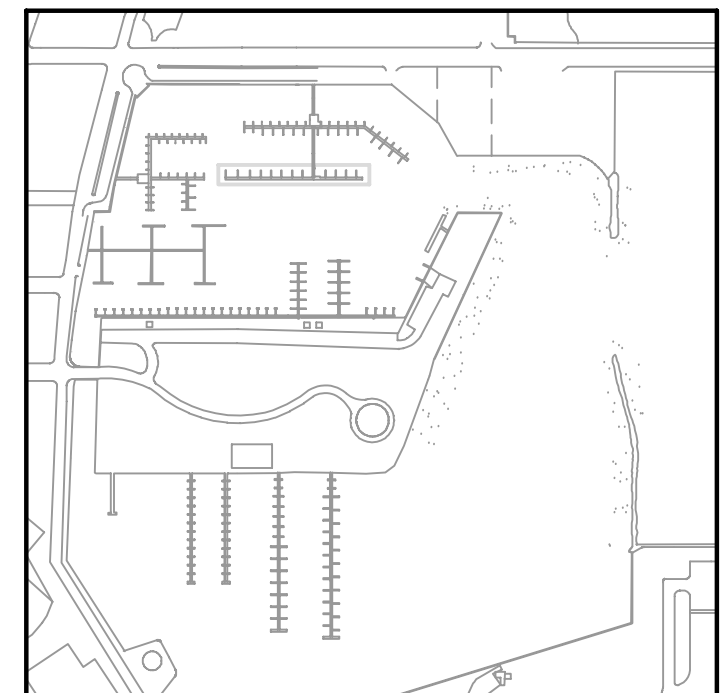
FIREWATER PLAN – NORTH DOCKS
 1"=20'



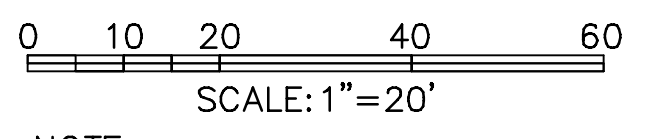
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- CONTRACTOR SHALL SUPPORT FW RISER TO FHC, AS NOTED ON DWG F15, DETAIL 5.
- REMOVE EXISTING PIPE HANGERS AND SUPPORTS, AND REPLACE WITH SUPPORTS NOTED IN DETAILS. EXISTING SUPPORTS MAY BE REUSED ONLY AFTER CITY INSPECTION AND APPROVAL. CONTRACTOR'S BID SHALL BE FOR ALL PIPE SUPPORTS TO BE NEW.
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KEY PLAN



SCALE: 1"=20'
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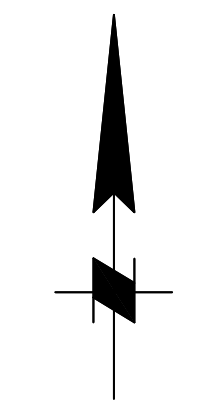
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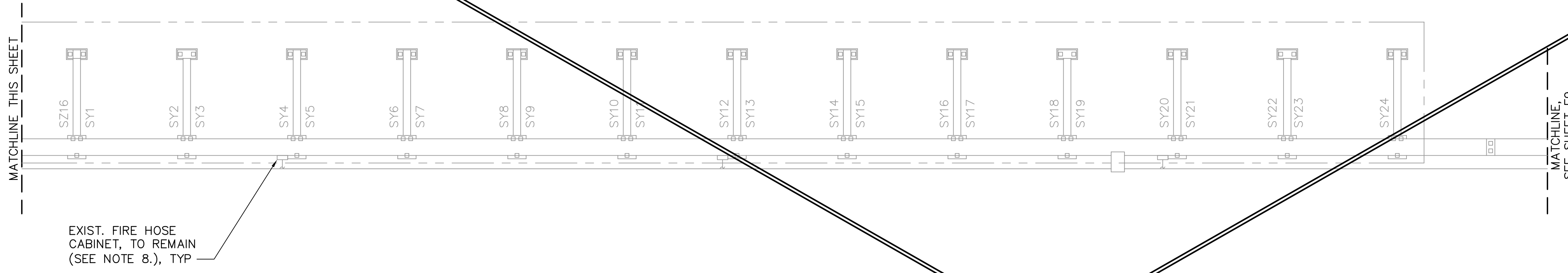
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FIREWATER PLAN NORTH DOCKS
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DATE: 06-24-05
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 SHEET No.: **F8**

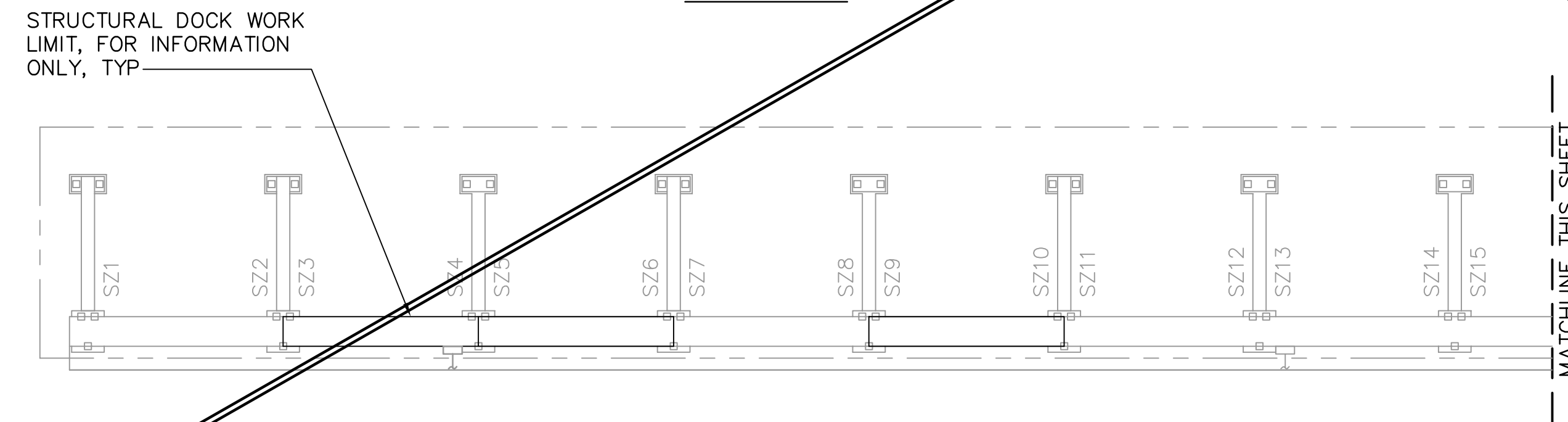
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SY EAST DOCK



SZ DOCK



NOTES

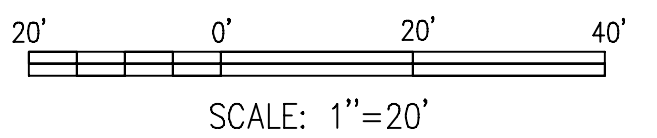
- PVC PIPING SHALL BE REMOVED FROM THE FW SYSTEM IN ITS ENTIRETY AT THE CENTRAL DOCKS. THE FW PIPING SHALL BE REPLACED IN SECTIONS. DOCKS SECTIONS NOT BEING REPLACED AT THE TIME, SHALL REMAIN IN SERVICE.
- PRIOR TO DEMOLITION OF A PIPING SECTION, ISOLATE FW LINES BY CLOSING NEAREST UPSTREAM VALVE TO THE PIPING TO BE REMOVED AND REPLACED.
- IF THE EXISTING ISOLATION VALVE IS NOT LOCATED NEAR THE PIPING TO BE REPLACED, THE EXISTING PIPING SHALL BE CUT OR A NEARBY FITTING REMOVED, AND A 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 CONTRACTOR'S ACCESS.
- ALL REPLACEMENT FW PIPING SHALL BE COPPER, AS SPECIFIED IN NOTE NO. 1, POTABLE WATER SYSTEM, OF THE GENERAL NOTES.
- ADD TAP FITTINGS OR CORPORATION STOPS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, FLUSHING, AND DRAINAGE. EXISTING VALVE IN FHC, WITHOUT THE FIRE HOSE ATTACHED, MAY BE USED FOR FLUSHING THE LINE.
- 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.
- AS APPLICABLE, REINSTALL FIRE HOSE CABINETS AND CONTENTS IN KIND AFTER DOCK STRUCTURE REPLACEMENT. CONNECT FW BRANCHES TO FHC CONNECTION.
- HOSE CABINETS SHALL BE REMOVED AND REINSTALLED, WHERE NOTED. ANY PVC PIPING COMPONENTS IN THE CABINET MUST BE REPLACED WITH COPPER PIPING AS DESCRIBED IN THE PROJECT NOTES. CONTRACTOR SHALL INSPECT EVERY FHC. IF CONTRACTOR NOTES AN INJURIOUS DEFECT OR PROBLEM WITH THE CABINET OR EQUIPMENT, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR DISPOSITION. IF CABINET REQUIRES REPLACEMENT, SEE DWG F15, DETAIL 5 FOR NEW CABINET REQUIREMENTS.
- HYDROTEST FW LINES PER GENERAL NOTES AND PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.
- CONTRACTOR SHALL SUPPORT FW RISER TO FHC, AS NOTED ON DWG F15, DETAIL 5.
- WHERE FW PIPING IS BEING REPLACED, 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.

FIREWATER PLAN – ALTERNATE 1 CENTRAL DOCKS

1"=20'

1
X5 F10

ADD ALTERNATIVE NOT PERFORMED



NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

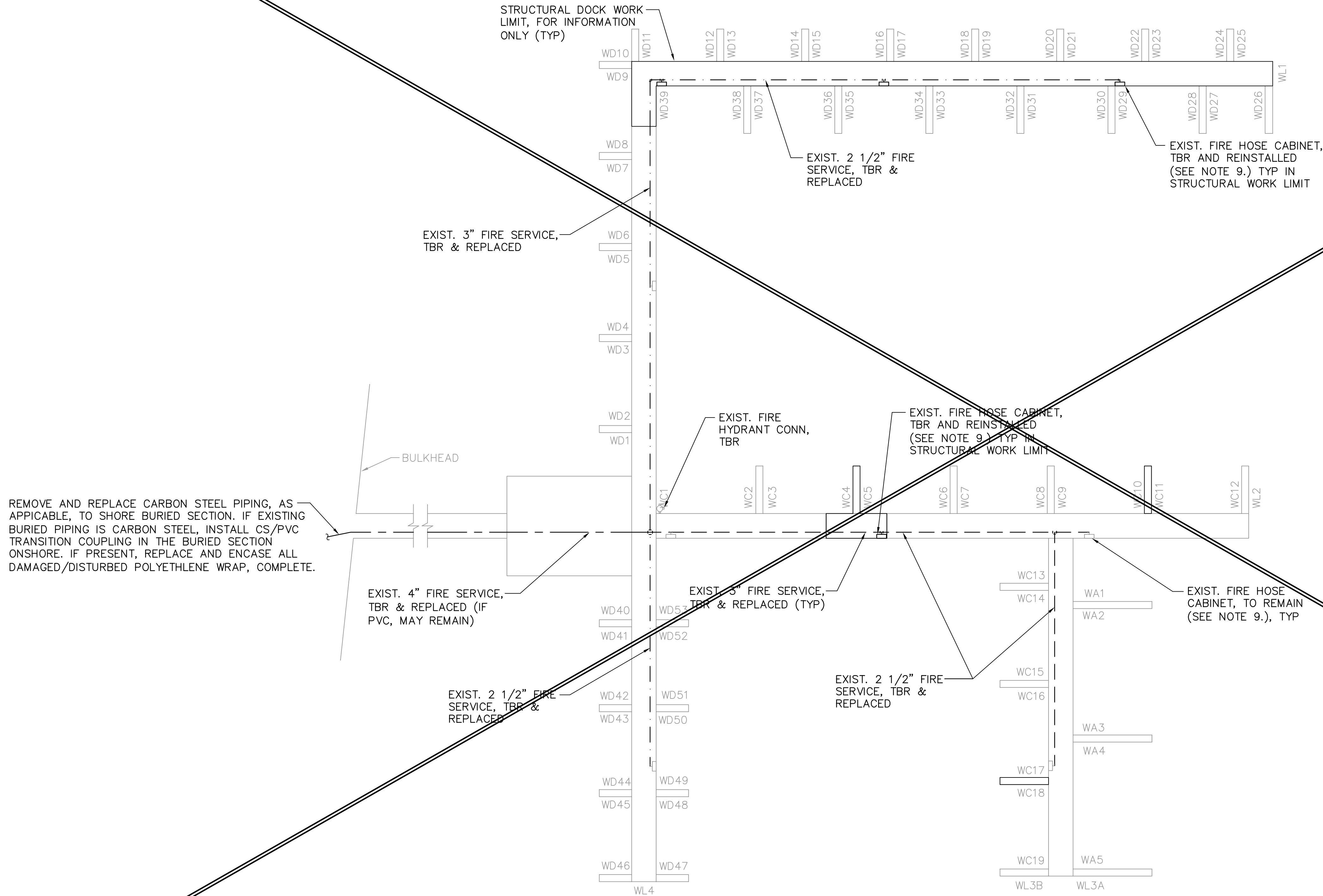
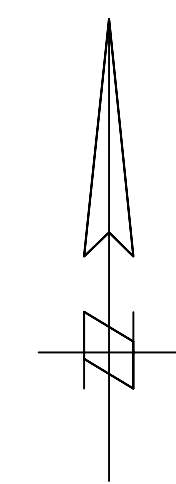
DESIGNED BY: JH	DATE: 02/04	REVISIONS	BY	DATE
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CHECKED BY: JM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				
		RECORD DRAWINGS	TV	07.27.07

MOFFATT & NICHOL ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER PLAN – ALTERNATE 1
CENTRAL DOCKS SHEET 2 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-55
SHEET No.: F10



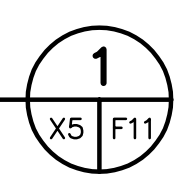
NOTES

- EXISTING FW PIPING IN ITS ENTIRETY SHALL BE REMOVED AND REPLACED AT THE WEST DOCKS. THE FW PIPING SHALL BE REPLACED IN SECTIONS. EXISTING FW PIPING IS PRESUMED TO BE CS AND SHALL BE VERIFIED BY THE CONTRACTOR PROR TO BID.
- DOCKS NOT BEING REPLACED AT THE TIME SHALL REMAIN IN SERVICE DURING REPLACEMENT WORK IN THE AREA.
- PRIOR TO DEMOLITION OF A PIPING SECTION, ISOLATE FW LINES BY CLOSING NEAREST UPSTREAM VALVE TO THE PIPING TO BE REMOVED AND REPLACED.
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- ADD TAP FITTINGS OR CORPORATION STOPS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, FLUSHING, AND DRAINAGE. EXISTING VALVE IN FHC, WITHOUT THE FIRE HOSE ATTACHED, MAY BE USED FOR FLUSHING THE LINE.
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- CONTRACTOR SHALL SUPPORT FW RISER TO FHC, AS NOTED ON DWG F15, DETAIL 5. VERIFY FW PIPING IS NOT SUPPORTED BY THE CABINET.
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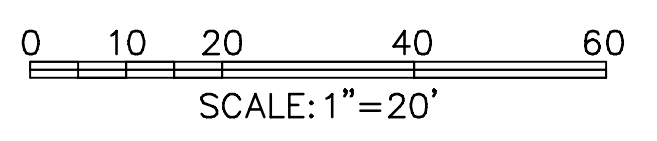
REMOVE AND REPLACE CARBON STEEL PIPING, AS APPLICABLE, TO SHORE BURIED SECTION. IF EXISTING BURIED PIPING IS CARBON STEEL, INSTALL CS/PVC TRANSITION COUPLING IN THE BURIED SECTION ONSHORE. IF PRESENT, REPLACE AND ENCASE ALL DAMAGED/DISTURBED POLYETHYLENE WRAP, COMPLETE.

FIREWATER PLAN – ALTERNATE 1 WEST DOCKS

1"=20'



ADD ALTERNATIVE NOT PERFORMED



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY: JH	DATE: 02/04	REVISIONS	BY	DATE
DRAWN BY: DM	DATE: 02/04			
CHECKED BY: JM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
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LOCATION:				
		RECORD DRAWINGS	TV	07.27.07

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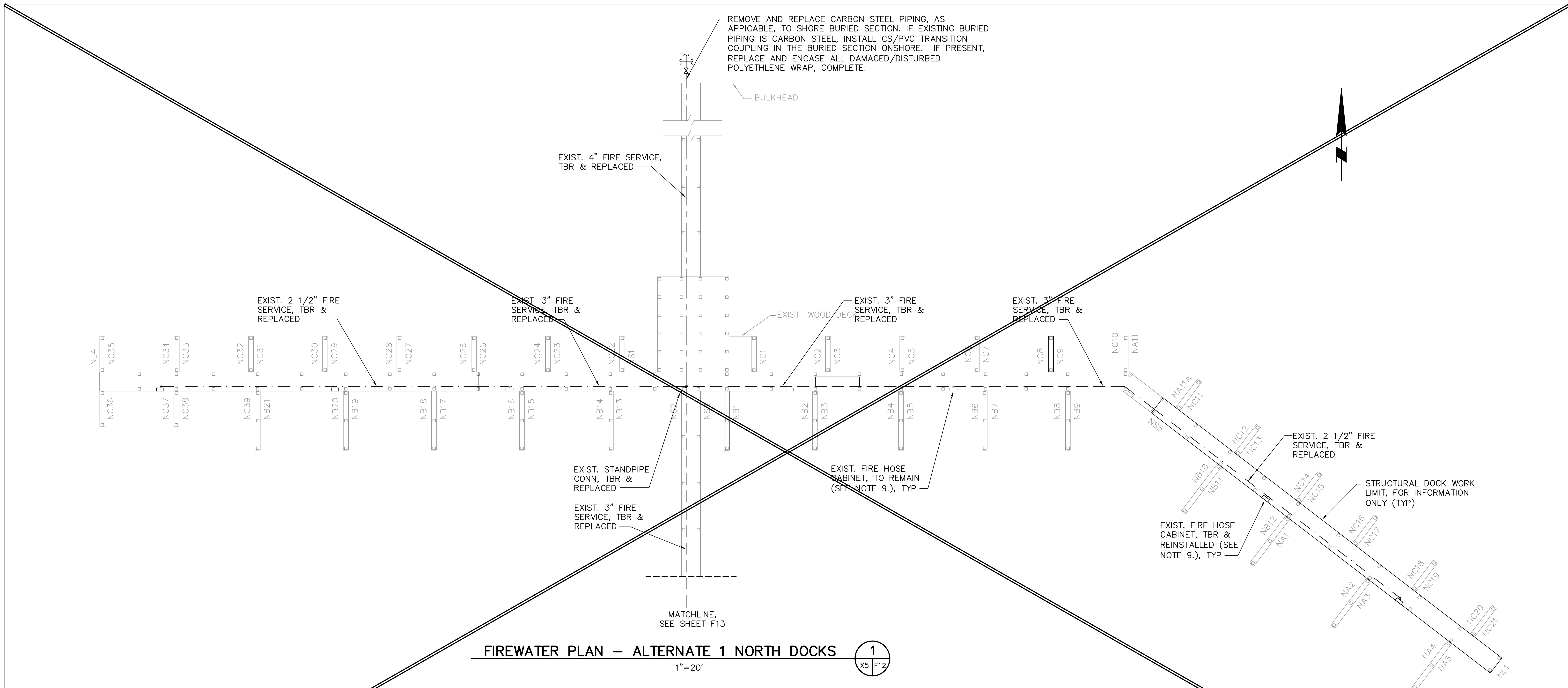
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER PLAN – ALTERNATE 1 WEST DOCKS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-56
SHEET No.: **F11**

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

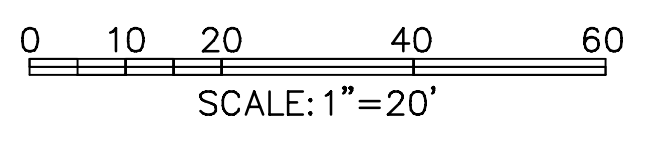


FIREWATER PLAN – ALTERNATE 1 NORTH DOCKS
 1
 1"=20'

- 1. NOTES**
- EXISTING FW PIPING IN ITS ENTIRETY SHALL BE REMOVED AND REPLACED AT THE NORTH DOCKS. THE FW PIPING SHALL BE REPLACED IN SECTIONS. EXISTING FW PIPING IS PRESUMED TO BE CS AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BID.
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**ADD ALTERNATIVE
NOT PERFORMED**



NOTE:
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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

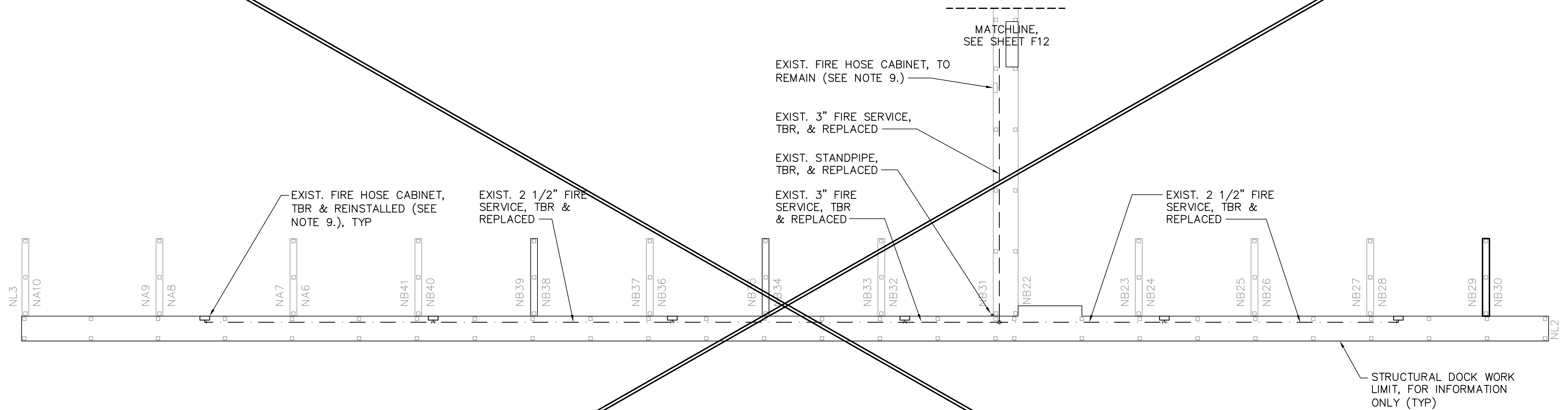
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FIELD BOOK No.	PAGE THRU			
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LOCATION:				
		RECORD DRAWINGS	TV	07.27.07

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 813-258-8818
 LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

**MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
 FIREWATER – ALTERNATE 1
 NORTH DOCKS SHEET 1 OF 2**

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-57
 SHEET No.: **F12**

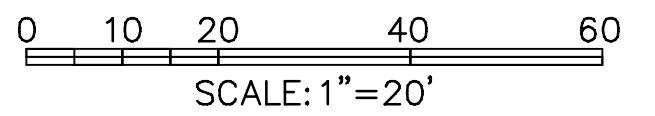


FIREWATER PLAN – ALTERNATE 1 NORTH DOCKS
 1"=20' 1
X5 F13

NOTES

1. EXISTING FW PIPING IN ITS ENTIRETY SHALL BE REMOVED AND REPLACED AT THE NORTH DOCKS. THE FW PIPING SHALL BE REPLACED IN SECTIONS. EXISTING FW PIPING IS PRESUMED TO BE CS AND SHALL BE VERIFIED BY THE CONTRACTOR PROR TO BID.
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10. HYDROTEST FW LINES PER GENERAL NOTES AND PROJECT SPECIFICATIONS PRIOR TO PLACING IN SERVICE.
11. CONTRACTOR SHALL SUPPORT FW RISER TO FHC, AS NOTED ON DWG F15, DETAIL 5. VERIFY FW PIPING IS NOT SUPPORTED BY THE CABINET.
12. WHERE FW PIPING IS BEING REPLACED, 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.

**ADD ALTERNATIVE
NOT PERFORMED** ▲



NOTE:
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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

DESIGNED BY: JH	DATE: 02/04	REVISIONS	BY	DATE
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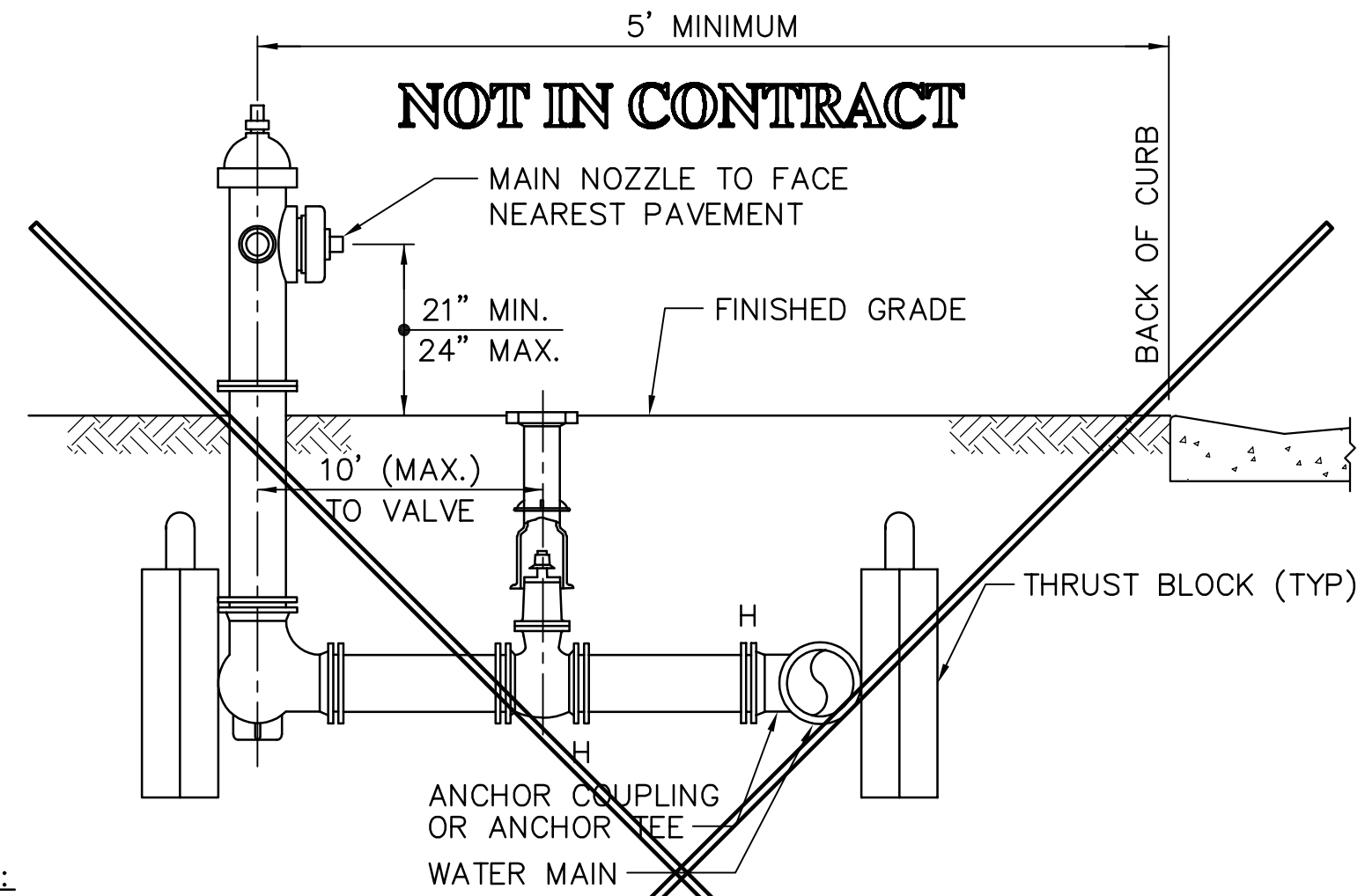
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APPROVED BY:
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FIREWATER – ALTERNATE 1
NORTH DOCKS SHEET 2 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-58
SHEET No.: **F13**

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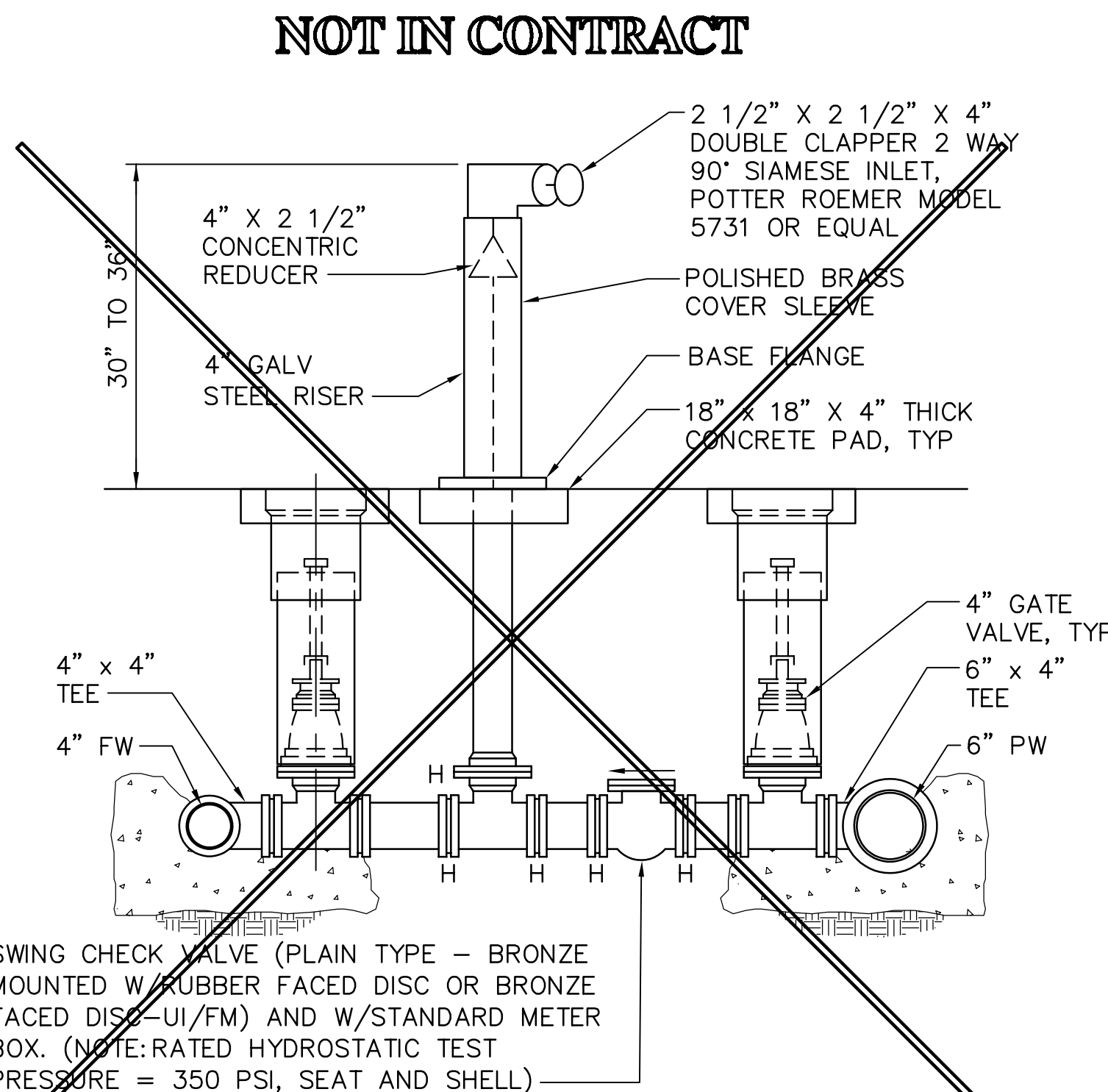
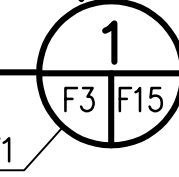


NOTES:

1. LOCATION OF HYDRANT AND VALVE TO BE DETERMINED IN FIELD. 3'-0" MIN TO NEAREST OBSTRUCTION.
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 KEPT FREE OF DIRT.
5. INSTALL A VALVE KEY EXTENSION ROD TO WITHIN 12" OF FINISHED GRADE. DIAMETER OF EXTENSION ROD SHALL BE 1/8" LESS THAN THE DIAMETER OF THE VALVE STEM.
6. 12" DIA GATE BOX LID SHALL BE TRAFFIC WEIGHT CAST IRON. ONLY THE WORD "WATER" SHALL BE CAST INTO THE TOP.
7. CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST GATE BOX AND LID TO GRADE DURING EACH PAVING LIFT.
8. H = HARNESSSED JOINT (MECHANICAL JOINT W/ DI RETAINER GLAND)

STANDARD FIRE HYDRANT INSTALLATION DETAIL

NOT TO SCALE

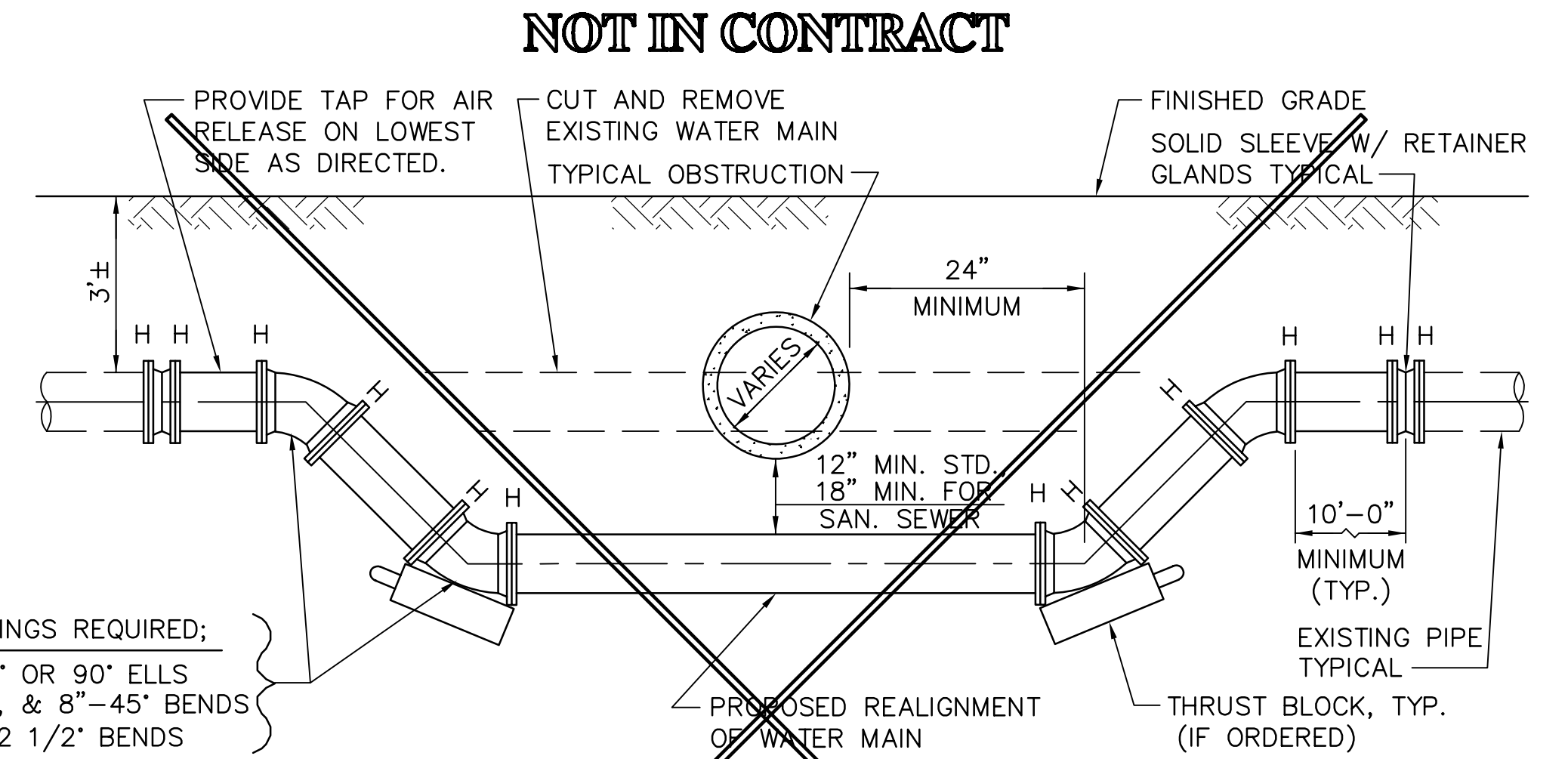
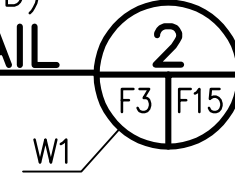


SWING CHECK VALVE (PLAIN TYPE - BRONZE MOUNTED W/ RUBBER FACED DISC OR BRONZE FACED DISC - UI/FM) AND W/ STANDARD METER BOX. (NOTE: RATED HYDROSTATIC TEST PRESSURE = 350 PSI, SEAT AND SHELL)

NOTE:
H = HARNESSSED JOINT (MECHANICAL JOINT W/ DI RETAINER GLAND)

FIRE DEPARTMENT CONNECTION DETAIL

NOT TO SCALE



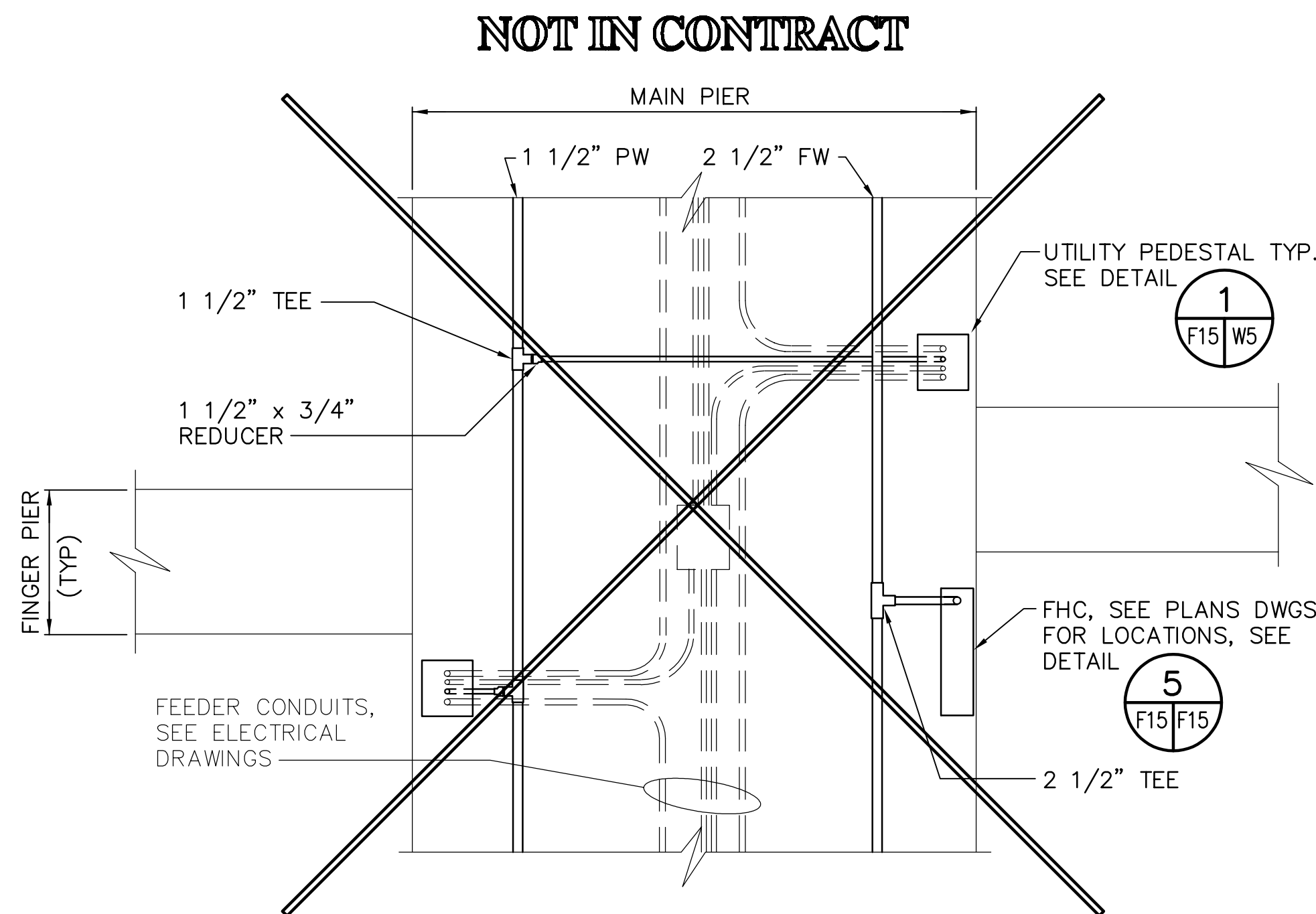
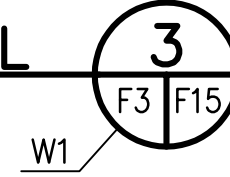
4 FITTINGS REQUIRED:
2"-45' OR 90° ELLS
4", 6", & 8"-45' BENDS
12"-22 1/2' BENDS

NOTES:

1. FOR 2" THROUGH 12" WATER MAIN.
2. ALL PIPE SHALL BE CUT AND PARTIALLY ASSEMBLED PRIOR TO THE CITY AUTHORIZING SHUTDOWN OF EXISTING MAIN(S) FOR TIE-IN.
3. SHUTDOWN PERIOD SHALL NOT EXCEED THREE (3) HOURS.
4. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED CITY CUSTOMERS PRIOR TO SHUTDOWN.
5. THE CONTRACTOR SHALL SWAB NEW PIPE AND FITTINGS WITH CHLORINE SOLUTION, AS DIRECTED.
6. H = HARNESSSED JOINT. (MECHANICAL JOINT W/ D.I. RETAINER GLAND) (NOT APPLICABLE TO 2" PIPE)
7. VERTICAL ADJUSTMENT MAY BE OVER AN OBSTRUCTION, IF MINIMUM PIPE COVER AND BOTTOM CLEARANCES ARE AVAILABLE.

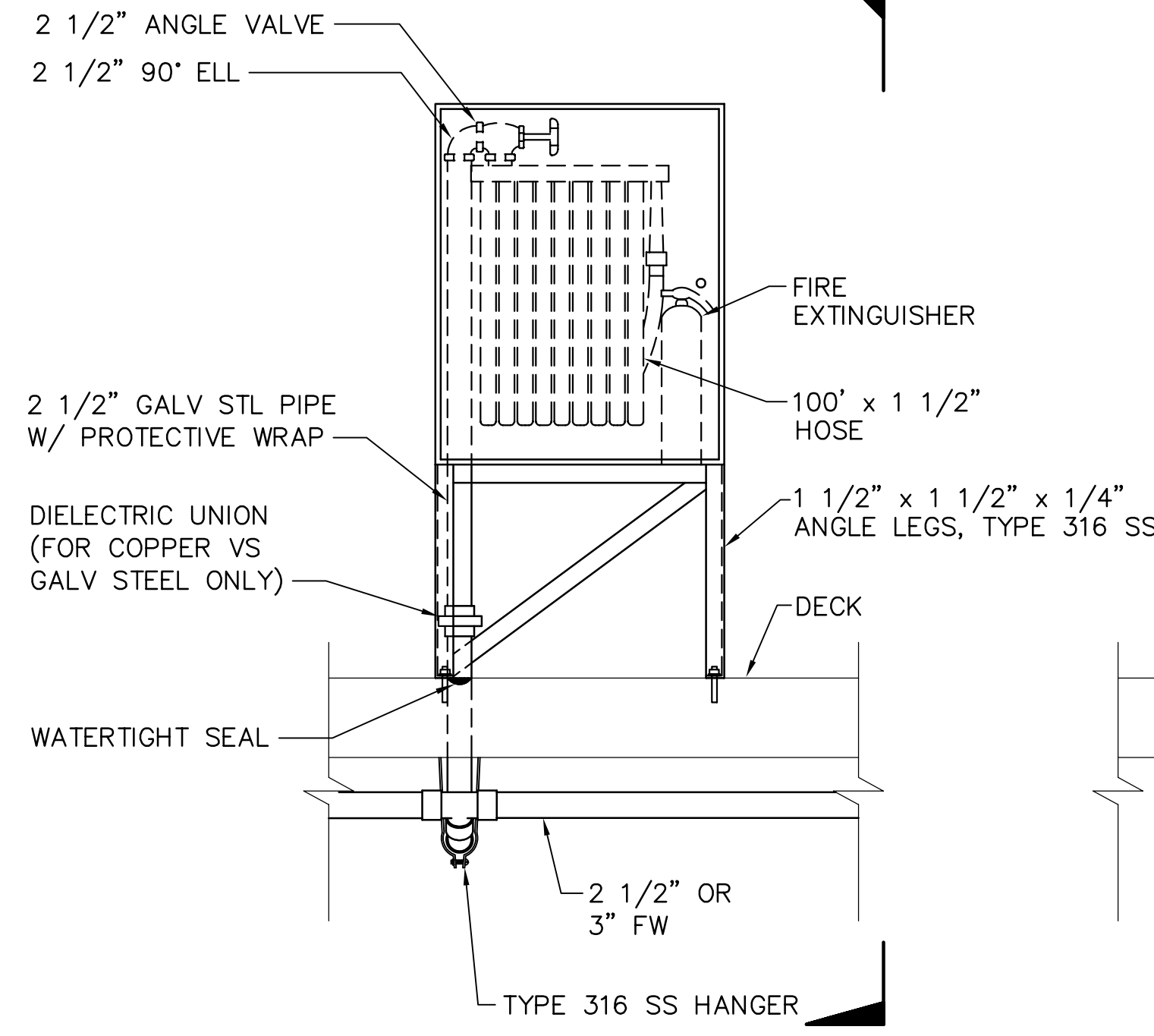
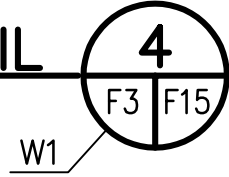
LINE CROSS OVER DETAIL

NOT TO SCALE



TYPICAL DOCK PIPING PLAN DETAIL

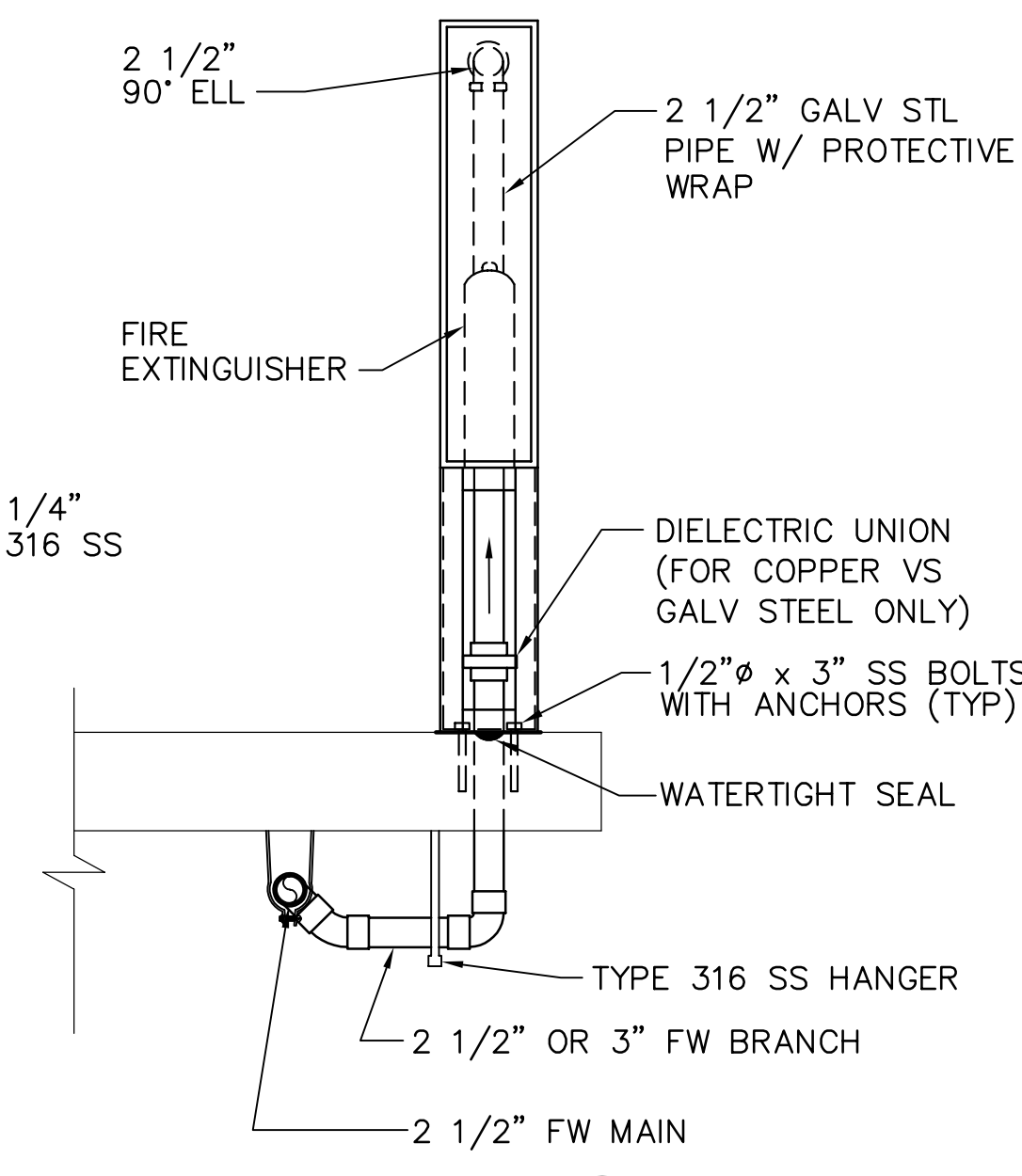
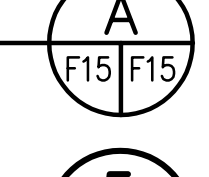
NOT TO SCALE



ELEVATION

DOCK-MOUNTED FIRE HOSE CABINET DETAIL

NOT TO SCALE



SECTION A

F6,F7,F8,F9,F10,
F11,F12,F13,F15

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RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY: JH	DATE: 02/04	REVISIONS	BY	DATE
DRAWN BY: DM	DATE: 02/04			
CHECKED BY: JM	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

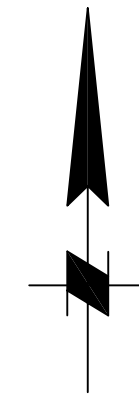
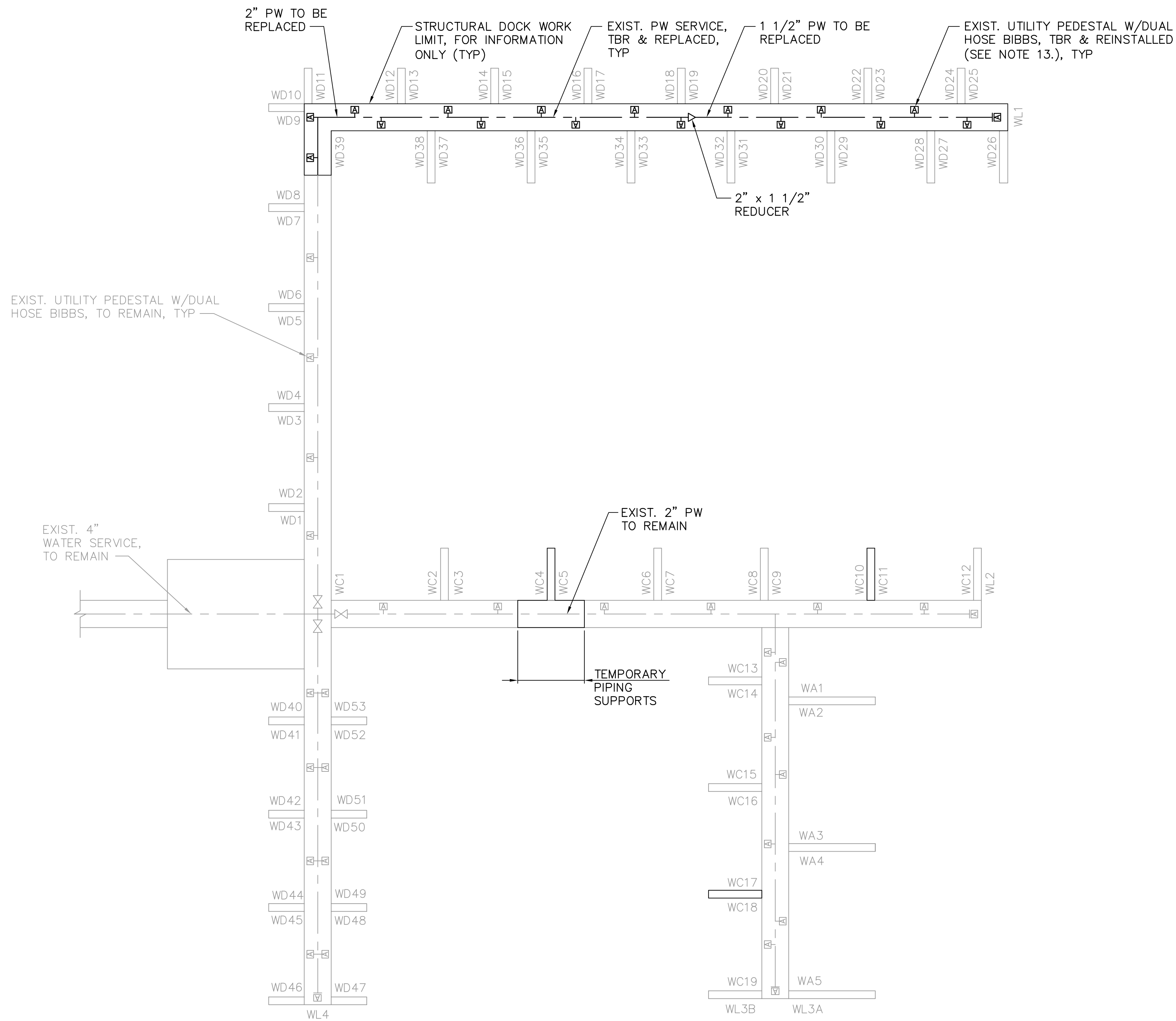
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

FIREWATER DETAILS
SHEET 2 OF 2

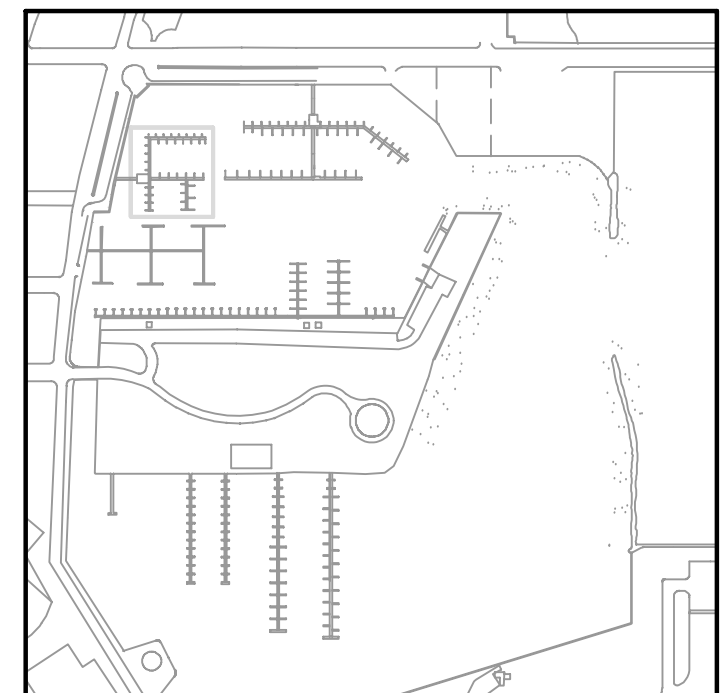
DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-60
SHEET No.: **F15**

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")



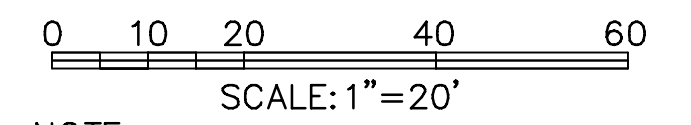
NOTES:

1. PIPING SHALL BE REMOVED AND REPLACED AT DOCK SECTIONS NOTED FOR REPLACEMENT.
2. DOCKS NOT BEING REPLACED SHALL REMAIN IN SERVICE DURING REPLACEMENT WORK IN THE AREA.
3. SERVICES SHALL REMAIN TO ALL DOCKS DOWNSTREAM OF THE DECK SECTION THAT IS TO BE REPLACED NEAR DOCKS WC4 AND WC5.
4. TEMPORARY PIPE SUPPORTS SHALL BE USED TO SUPPORT PIPING MIDSPAN OF REMOVED DOCK SECTION. MAXIMUM PIPE SPAN SHALL BE 8 FEET FOR 2" SIZE PVC PIPE. TEMPORARY SUPPORTS SHALL NOT INTERFERE WITH REMOVAL AND CONSTRUCTION WORK OF THE SECTION.
5. PRIOR TO DECK AND STRUCTURAL DEMOLITION, ISOLATE PW LINES BY CLOSING NEAREST UPSTREAM VALVE TO THE 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 OR A NEARBY FITTING REMOVED, AND A 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 CONTRACTOR'S ACCESS.
7. ADD TAP FITTINGS OR CORPORATION STOPS DOWNSTREAM OF EXISTING ISOLATION VALVE FOR HYDROTESTING, DISINFECTION, FLUSHING, AND DRAINAGE. EXISTING HOSE BIBBS MAY BE USED FOR FLUSHING THE LINE AFTER DISINFECTION.
8. ANY SECTION OF PW PIPING OPENED TO ATMOSPHERIC PRESSURE AND CONTINUING TO PROVIDE SERVICE DURING CONSTRUCTION SHALL BE DISINFECTED AND FLUSHED PER GENERAL NOTES AND PROJECT SPECIFICATIONS.
9. CONNECT NEW PIPING TO EXISTING PIPING AFTER COMPLETION OF DECK REHABILITATION.
10. REPLACEMENT PW PIPING MATERIAL SHALL BE IN KIND, AS NOTED IN THE PROJECT NOTES. COPPER PIPING SHALL BE USED FOR HOSE BIBB BRANCHES GOING THROUGH AND ABOVE THE DECK.
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15. CONTRACTOR SHALL SUPPORT PW RISER TO HOSE BIBB, AS NOTED ON DWG W6, 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 AXIAL RESTRAINTS/ANCHORS. IF NONE PRESENTLY EXIST FOR A DOCK SECTION, CONTRACTOR SHALL PROPOSE LOCATION(S) FOR ENGINEER'S REVIEW WITH SUFFICIENT FLEXIBILITY ON BOTH SIDES OF THE ANCHOR FOR THERMAL EXPANSION AND CONTRACTION.



KEY PLAN

POTABLE WATER PLAN – WEST DOCKS 1
 1" = 20'



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JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 08 AUGUST 2007

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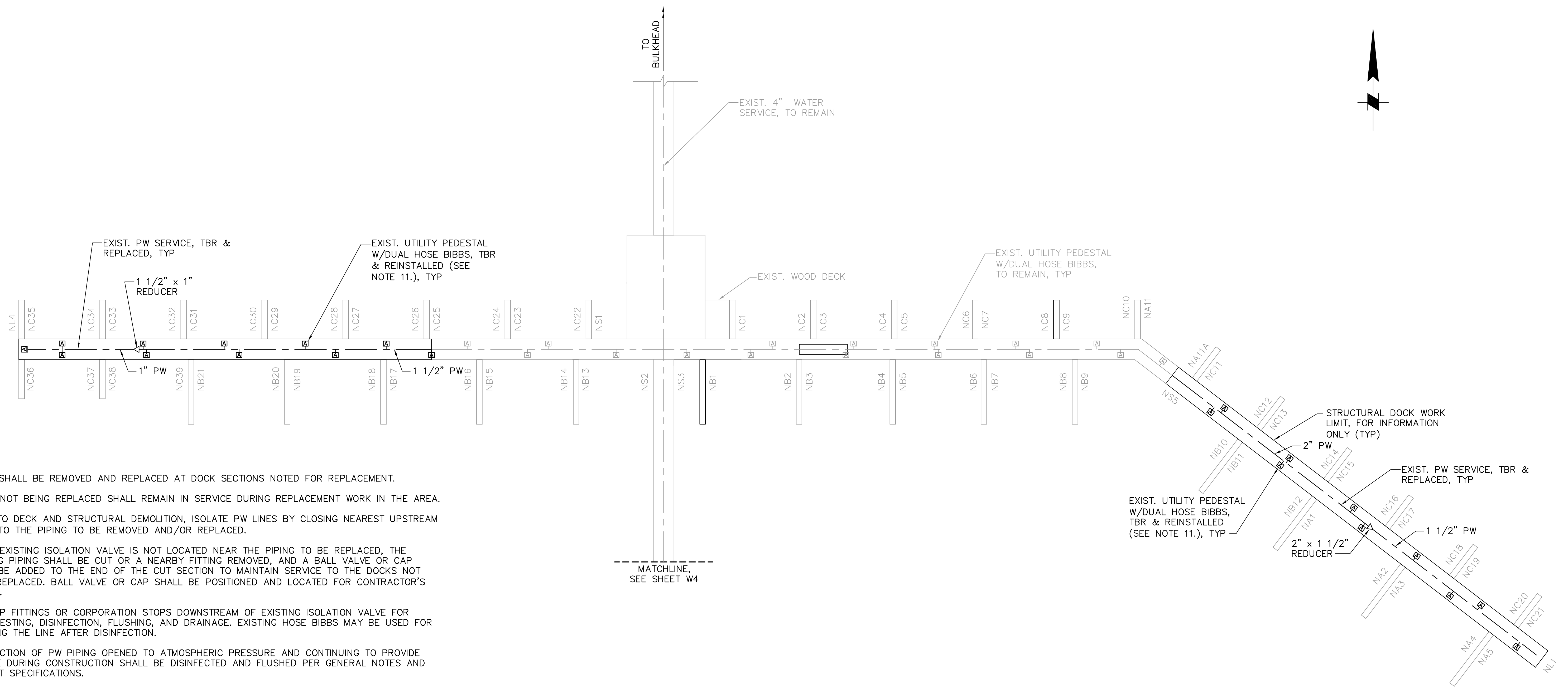
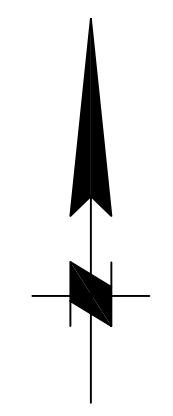
MOFFATT & NICHOL
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 1509 W. SWANN AVENUE, SUITE 225
 TAMPA, FLORIDA 33606
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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
POTABLE WATER PLAN
WEST DOCKS

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-62
 SHEET No.: **W2**

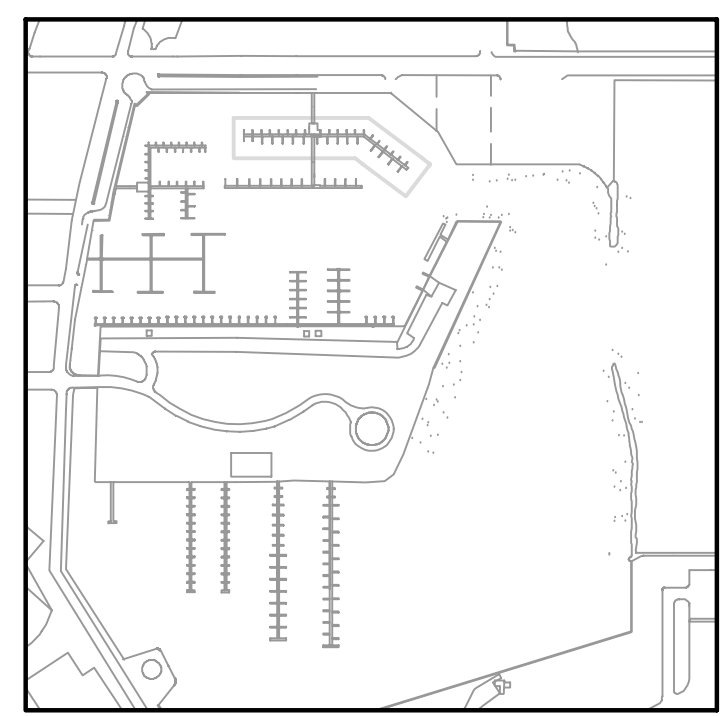
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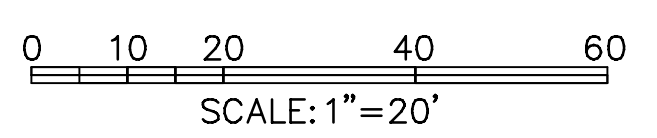
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POTABLE WATER PLAN – NORTH DOCKS 1
 1"=20'



KEY PLAN



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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 06 AUGUST 2007

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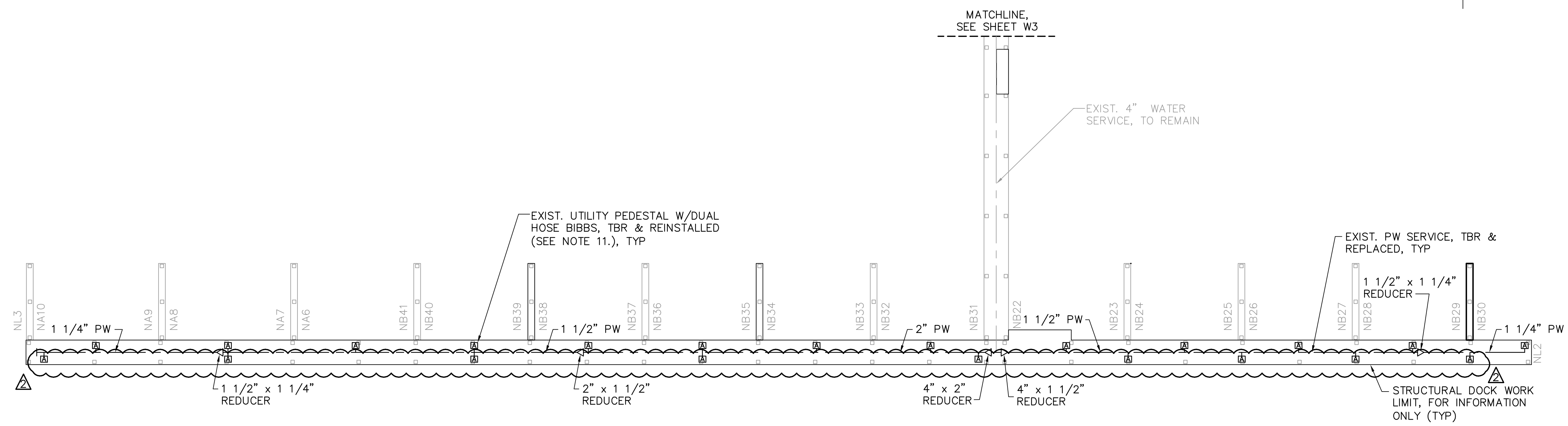
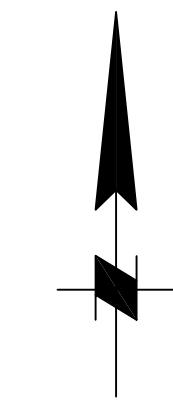
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ENGINEERING, STORMWATER, &
 TRAFFIC OPERATIONS DEPARTMENT
 CITY OF ST. PETERSBURG
 APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
POTABLE WATER PLAN NORTH DOCKS
SHEET 1 OF 2

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-63
 SHEET No.: **W3**

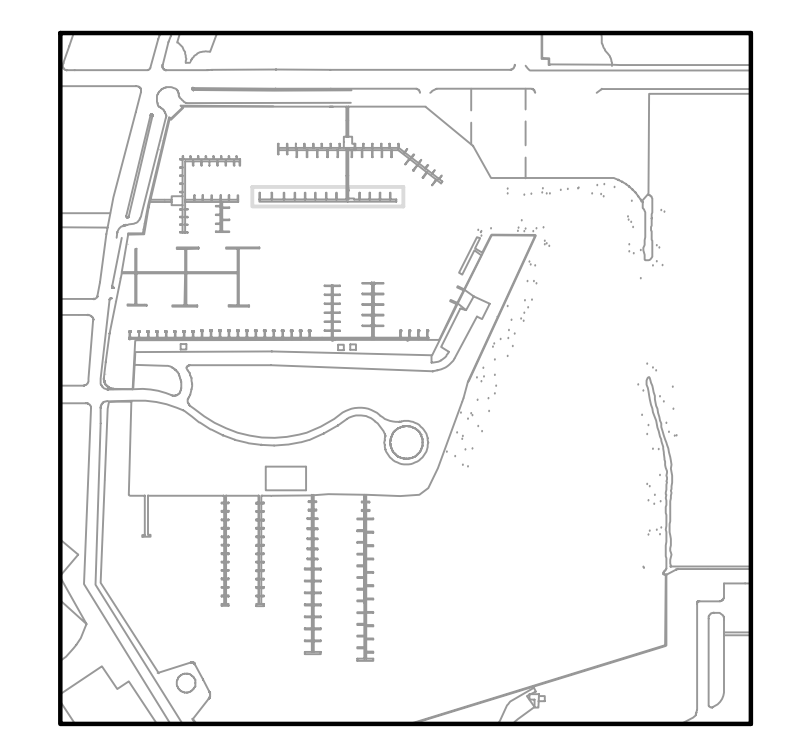
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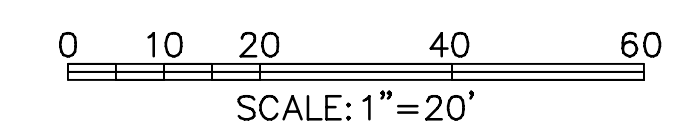
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POTABLE WATER PLAN – NORTH DOCKS 1
 1"=20'



KEY PLAN



SCALE: 1"=20'

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 06 AUGUST 2007

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DRAWN BY: DM	DATE: 02/04			
CHECKED BY: JM	DATE: 02/04			
FIELD BOOK No.	PAGE			
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LOCATION:	EL.			
		RECORD DRAWINGS	TV	07.27.07

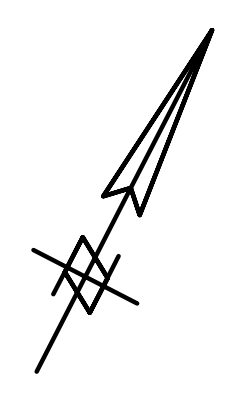
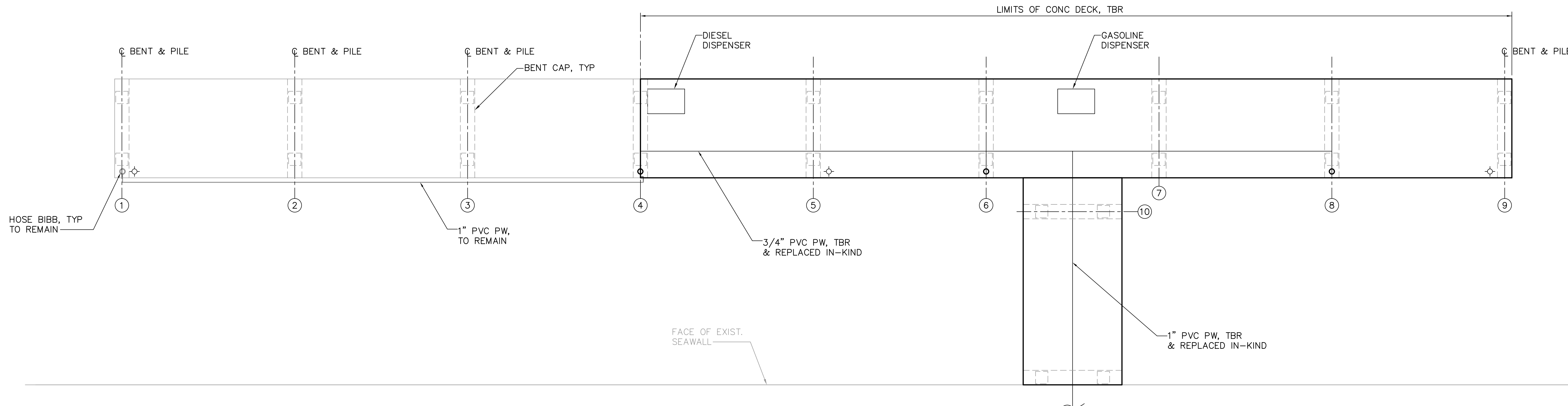
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APPROVED BY:
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 CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
POTABLE WATER PLAN NORTH DOCKS
 SHEET 2 OF 2

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-64
SHEET No.:	W4

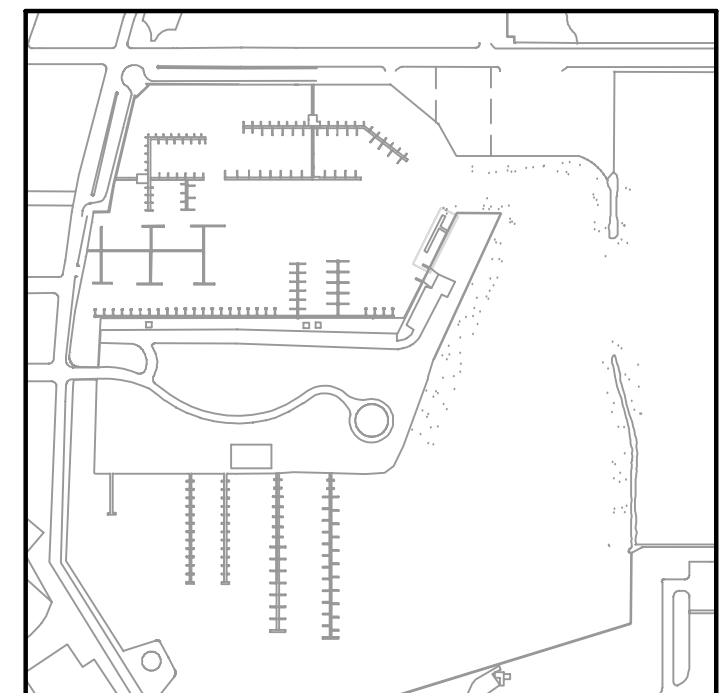
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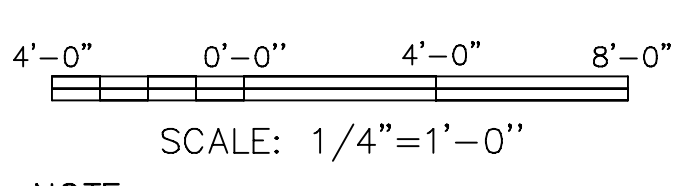
POTABLE WATER PLAN – FUEL DOCK 1
 1/4"=1'-0" X5 W5

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 FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
 ISSUED 08 AUGUST 2007

DESIGNED BY: JAM	DATE: 05/04	R E V I S I O N S	BY	DATE
DRAWN BY: EGW	DATE: 05/04			
CHECKED BY: JDM	DATE: 05/04			
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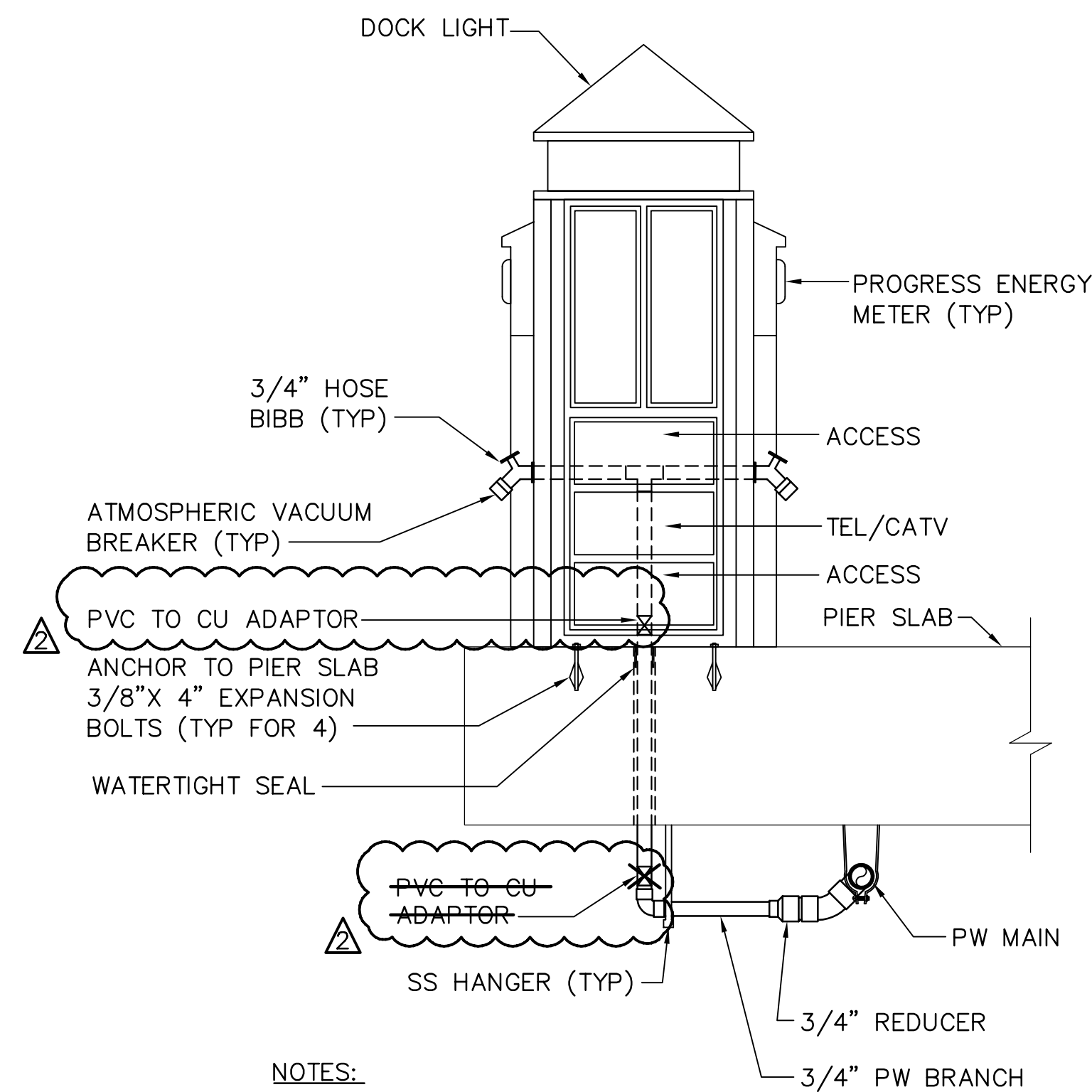
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MUNICIPAL MARINA SOUTH & CENTRAL BASINS
 STRUCTURAL REHABILITATION PROJECT NO. 01074-117
POTABLE WATER PLAN
FUEL DOCK

DATE: 06-24-05
 SCALE: AS SHOWN
 DRAWING No.: 10175-65
 SHEET No.: **W5**

Fri, 17 Aug 2007 1:00pm P:\5607-03\cadd\Submittals\2007-06-14_Aa_Built\4817-14_W05.dwg tveldez



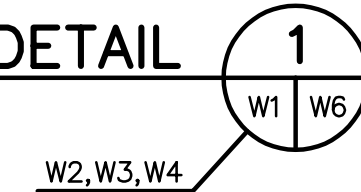
NOTES:

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 2 FOR ADDITIONAL CRITERIA



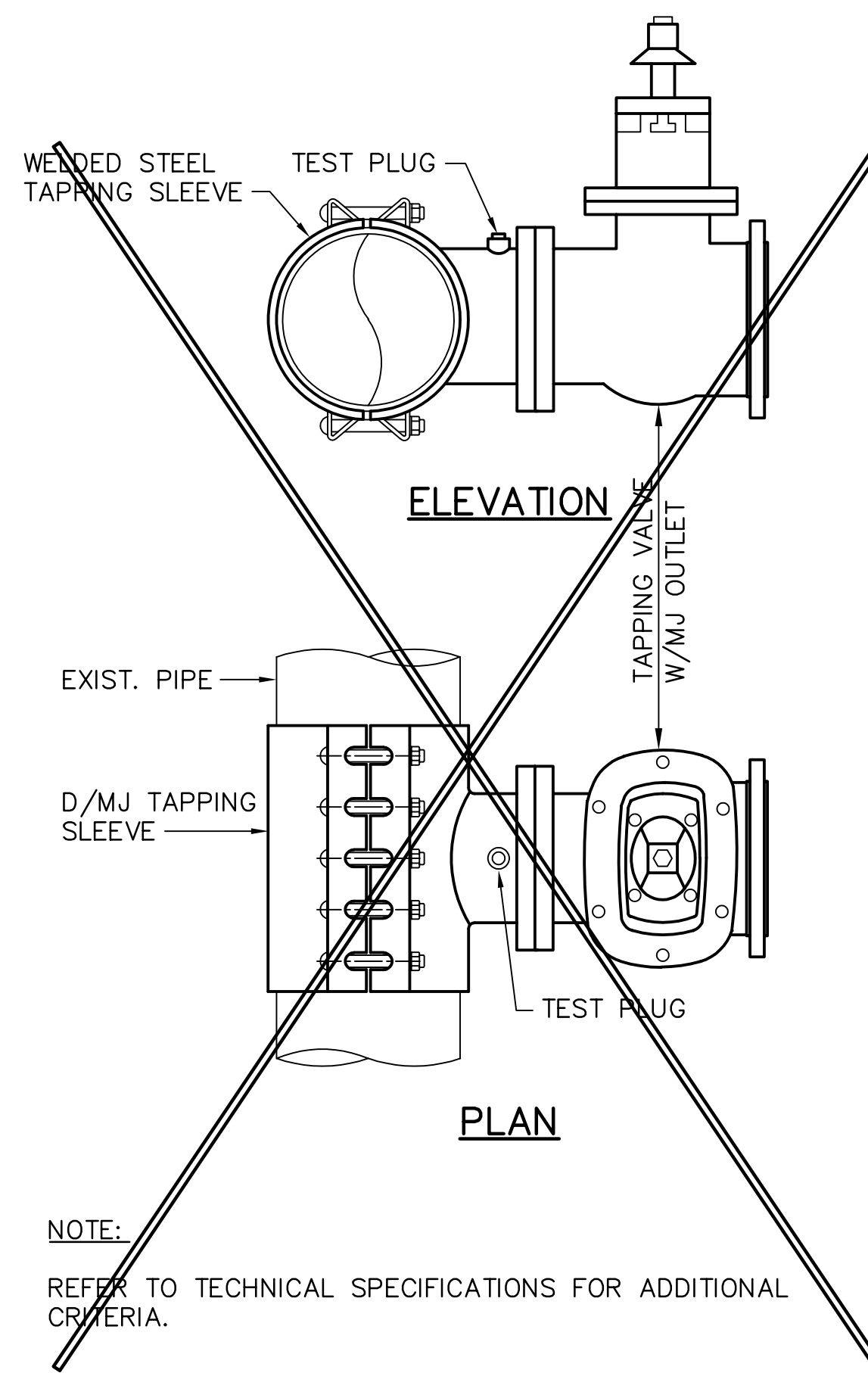
UTILITY PEDESTAL DETAIL

NOT TO SCALE



W2,W3,W4

NOT IN CONTRACT

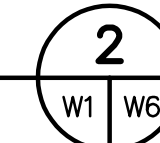


NOTE:

REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL CRITERIA.

PRESSURE TAP TIE-IN DETAIL

NOT TO SCALE



Fri, 17 Aug 2007 1:00pm P:\5607-03\cadd\Submittals\2007-06-14 As Built\4817-14_W06.dwg tveldez

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

JEFFREY D. MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY: JH	DATE: 02/04	BY	DATE
DRAWN BY: DM	DATE: 02/04		
CHECKED BY: JM	DATE: 02/04		
FIELD BOOK No.	PAGE THRU		
BM No.	EL.		
LOCATION:			
REVISIONS			
RECORD DRAWINGS		TV	07.27.07

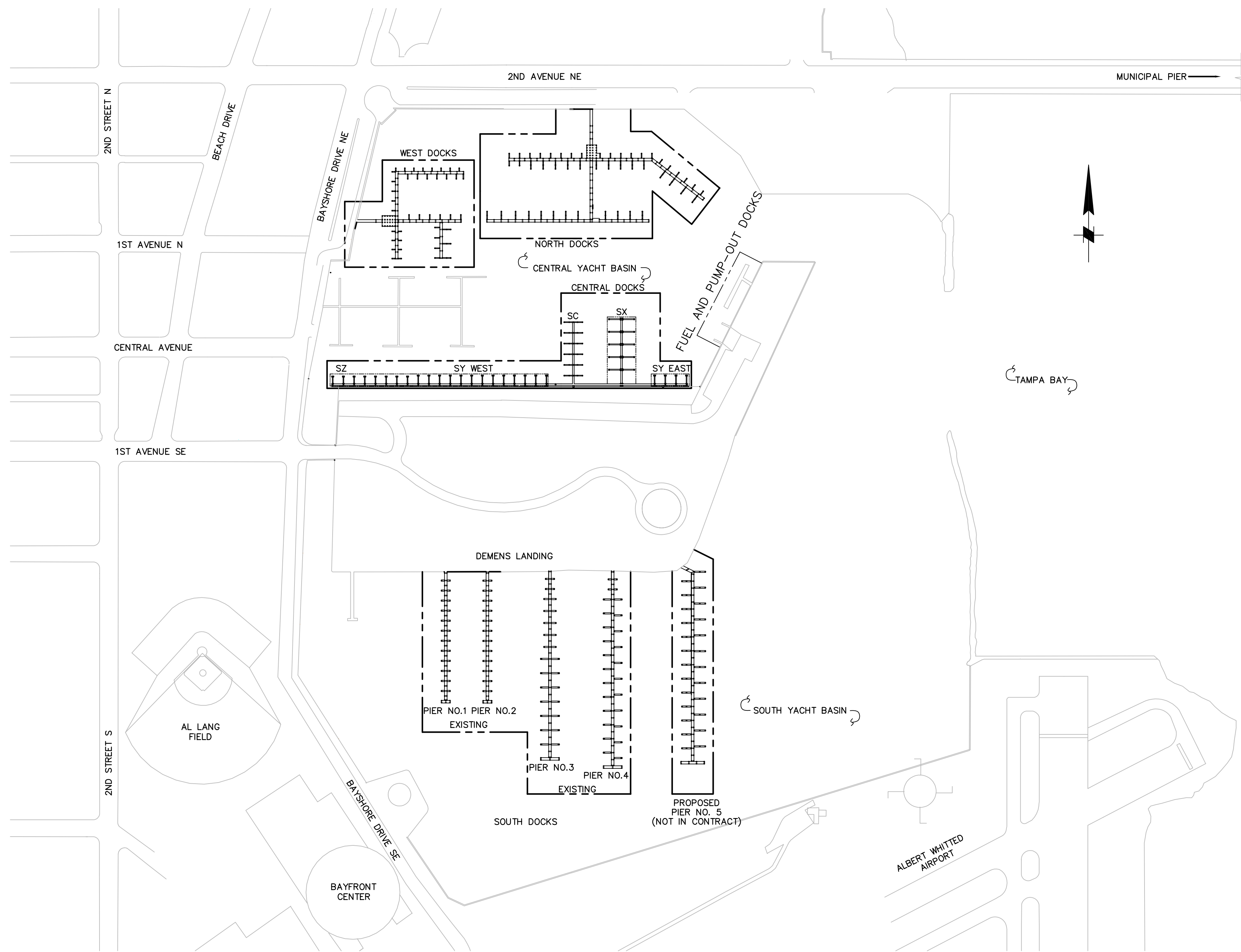
MOFFATT & NICHOL
ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

POTABLE WATER DETAILS

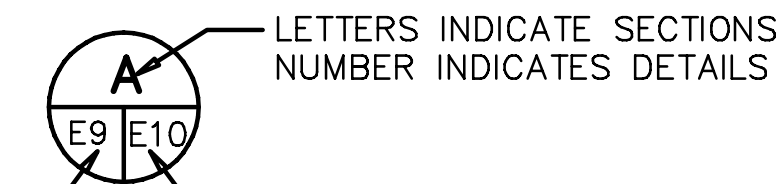
DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-66
SHEET No.: **W6**



SITE PLAN
SCALE: 1"=200'

ABBREVIATION AND SYMBOL LIST:

- NEW CONDUIT AND FEEDERS.
- EXISTING CONDUIT AND NEW FEEDER.
- EXISTING CONDUIT AND FEEDERS TO REMAIN.
- Ⓐ DOCKSIDE POWER PEDESTAL. SEE SCHEDULE AND DETAIL 2 ON SHEET E12. LETTER INDICATES TYPE OF PEDESTAL.
- Ⓐ CATV EQUIPMENT OR JUNCTION BOX. SEE DETAIL 2 ON SHEET E13. LETTER INDICATES TYPE OF CABINET.
- Ⓐ TELEPHONE TERMINAL CABINET. SEE DETAIL 1 ON SHEET E13. LETTER INDICATES TYPE OF CABINET.
- ① DESCRIPTIVE NOTE. SEE NOTES ON EACH SHEET.
- ▨ CATV TERMINAL CABINET. SEE DETAIL ON SHEET E13.
- 12" X 16" X 6" NEMA 4X J-BOX FOR CATV.
- 12" X 16" X 8" NEMA 4X J-BOX FOR TELEPHONE.
- ② FEEDER CALLOUT SEE CONDUIT AND FEEDER SCHEDULE.



SHEET NUMBER WHERE DETAIL OR SECTION IS TAKEN

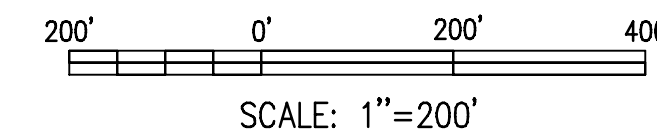
SHEET NUMBER WHERE DETAIL OR SECTION IS DRAWN

ELECTRICAL DRAWING SUPPLEMENTAL ABBREVIATIONS

- C = CONDUIT
- CL = CONTINUOUS LOAD
- CONT = CONTRACTOR
- FL = FLORIDA
- GND. = GROUND
- J-BOX = JUNCTION BOX
- LT = LIGHT
- SCH = SCHEDULE

GENERAL NOTES:

1. ALL EXISTING CONDUITS NOT REUSED IN REMODELED 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 REUSED SHALL BE RECONDITIONED AND REINSTALLED AS REQUIRED.
3. ALL EXISTING EQUIPMENT TO BE REMOVED, TEMPORARILY STORED AND REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED, AS REQUIRED.
4. THESE DRAWINGS SHOW APPROXIMATE LOCATION OF EXISTING EQUIPMENT AND DO NOT NECESSARILY INDICATE THE COMPLETE EXISTING INSTALLATION. EXACT LOCATION SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
5. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK.
6. ALL POWER INTERRUPTIONS 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 CONDITIONS, EXISTING FACILITIES AND ALL BUILDING 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 AUTHORITIES HAVING JURISDICTION.
10. ALL NEW FEEDERS SHALL BE CONTINUOUS BETWEEN PANEL CIRCUIT BREAKER AND POWER PEDESTAL(S). NO SPLICES AND/OR "BELOW DECK" TERMINATIONS SHALL BE PERMITTED.



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY: DRM	DATE: 02/04	REVISIONS	BY	DATE
DRAWN BY: PRB	DATE: 02/04			
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BM No.	EL.			
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813-258-8618
LIC: EB-0004877

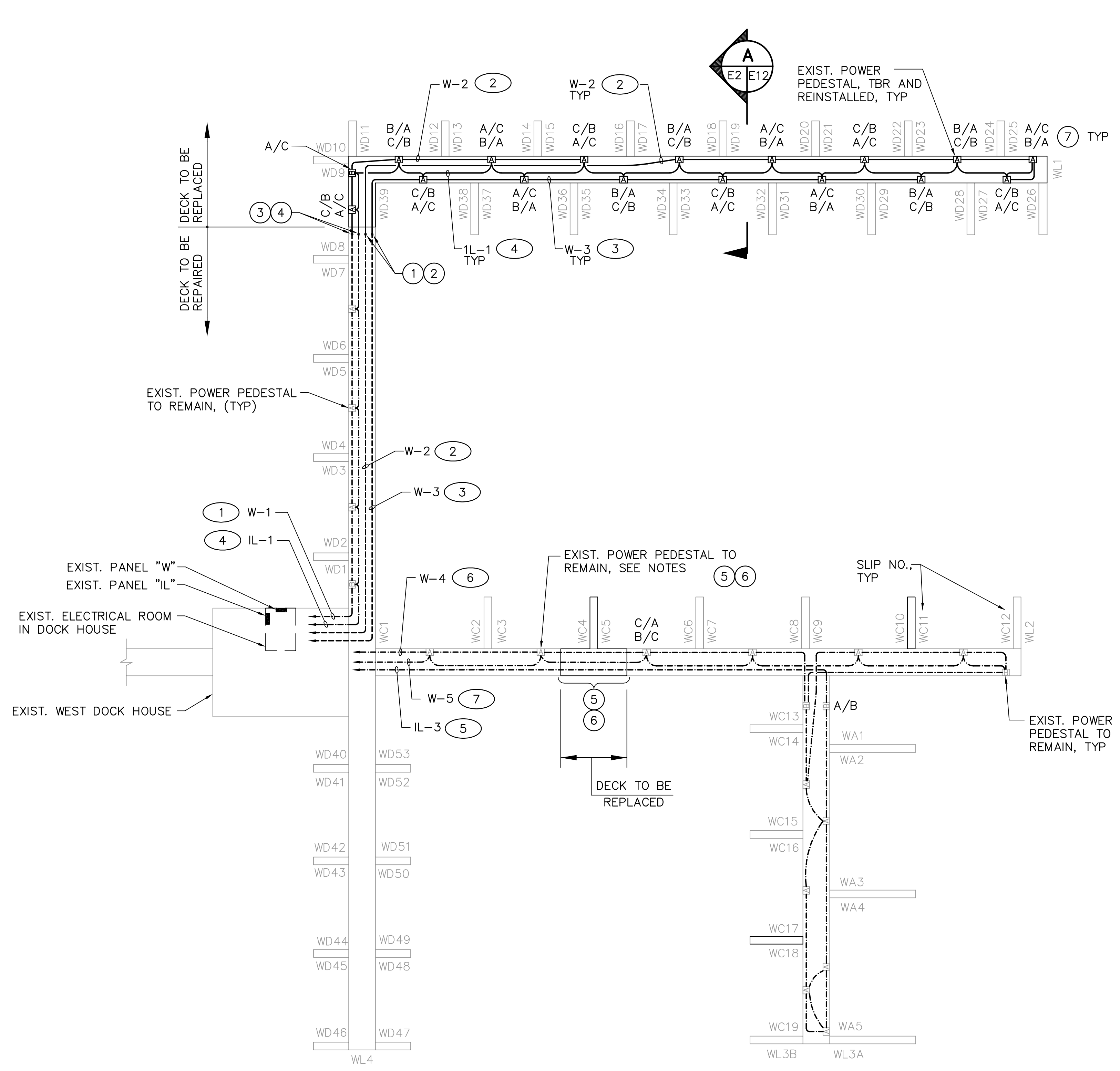
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

ELECTRICAL SITE PLAN, ABBREVIATIONS, SYMBOL LIST AND GENERAL NOTES

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-67
SHEET No.: **E1**



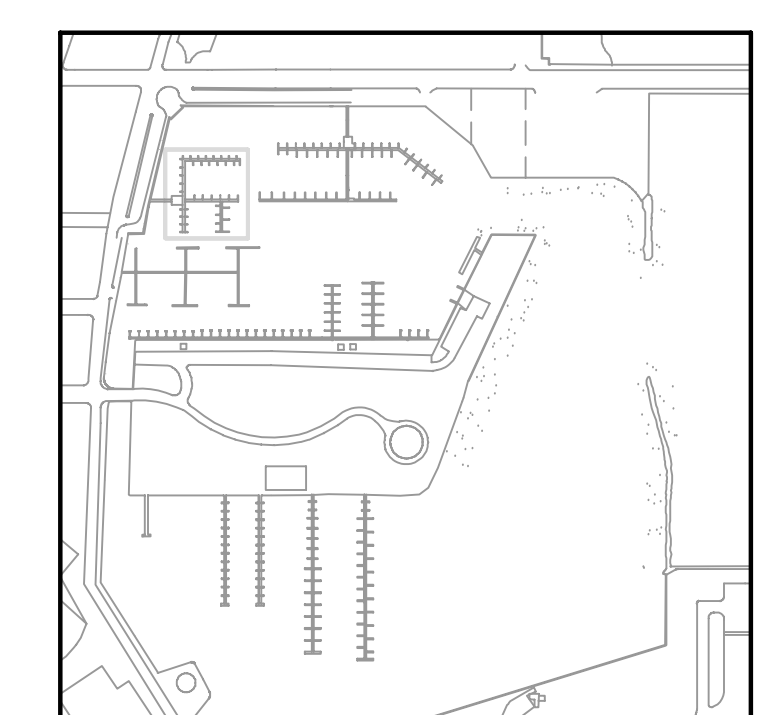
NOTES:

- ① DISCONNECT AND REMOVE FEEDS FROM DECK TO BE REPLACED BACK TO PANEL. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- ② CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. INSTALL NEW FEEDERS IN EXISTING & NEW CONDUIT FROM REINSTALLED POWER PEDESTALS TO EXISTING PANEL AND MAKE CONNECTION TO ORIGINAL BREAKER.
- ③ DISCONNECT AND REMOVE FEEDS FROM EXISTING DECK TO BE REPLACED BACK TO POWER PEDESTAL THAT WILL REMAIN. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- ④ CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. PROVIDE NEW FEEDERS IN EXISTING AND NEW CONDUIT FROM REINSTALLED POWER PEDESTAL TO EXISTING POWER PEDESTAL THAT WILL REMAIN AND MAKE CONNECTIONS.
- ⑤ THE CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING POWER CONDUITS DURING DECK REPLACEMENT.
- ⑥ THE CONTRACTOR SHALL SUSPEND EXISTING CONDUIT UNDER NEW PORTION OF DECK AS SHOWN ON DETAIL 1 SHEET E12.
- ⑦ DESIGNATES PHASE CONNECTION FOR POWER CIRCUIT.

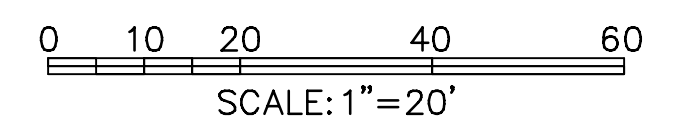
GENERAL NOTES FOR POWER PLANS:

1. ALL POWER CENTERS REMOVED FOR DECK REPAIR SHALL BE REUSED IN-KIND. NO ADDITIONAL POWER CENTERS SHALL BE ADDED TO THIS DOCK.
2. ALL FEEDERS REMOVED FOR DECK REPAIR SHALL BE REPLACED IN KIND, COMPLETE.
3. ALL CIRCUIT LOADS SHALL REMAIN UNCHANGED.
4. ALL NEW FEEDERS SHALL BE CONTINUOUS. NO SPLICES AND/OR "BELOW DECK" TERMINATIONS SHALL BE PERMITTED.

ELECTRICAL PLAN – WEST DOCKS (4)
1"=20'



KEY PLAN



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")

Fri, 17 Aug 2007 - 1:05pm P:\607-03\cadd\Submittals\2007-06-14_Aa Built\4817-14_E02.dwg lvaldez

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CHECKED BY: TWS	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
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813-258-8818
LIC: EB-0004877

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CITY OF ST. PETERSBURG

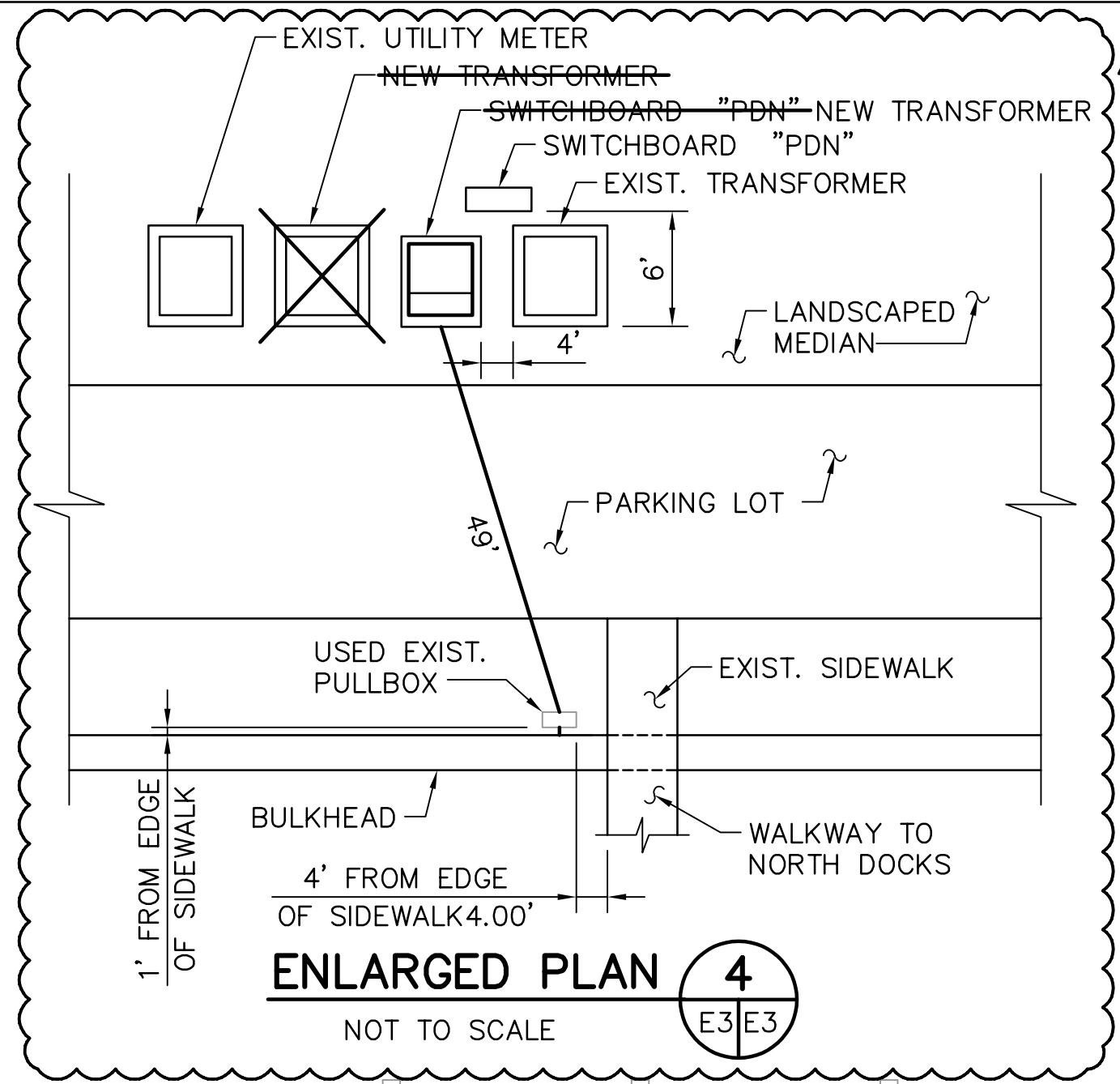
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

ELECTRICAL PLAN
WEST DOCKS

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-68
SHEET No.:	E2

TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296



2
E3/E3
SWITCHBOARD "PDN". SEE
DETAIL THIS SHEET. VERIFY
FINAL LOCATION, WITH OWNER.

4
E3/E3

1' FROM EDGE
OF SIDEWALK
4' FROM EDGE
OF SIDEWALK 4.00'

ENLARGED PLAN 4
NOT TO SCALE

E3/E3

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

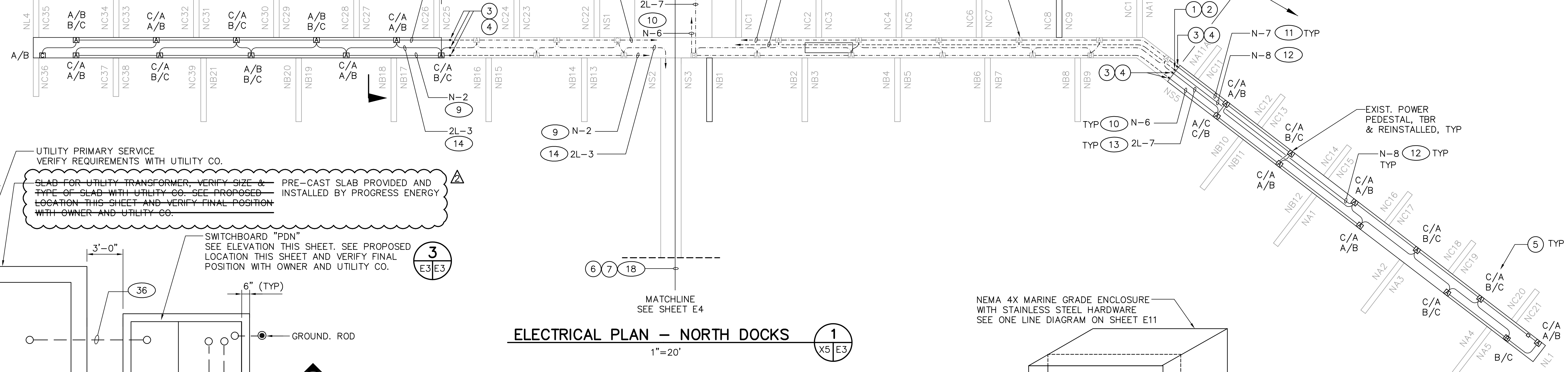
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NOT TO SCALE

NOT TO SCALE

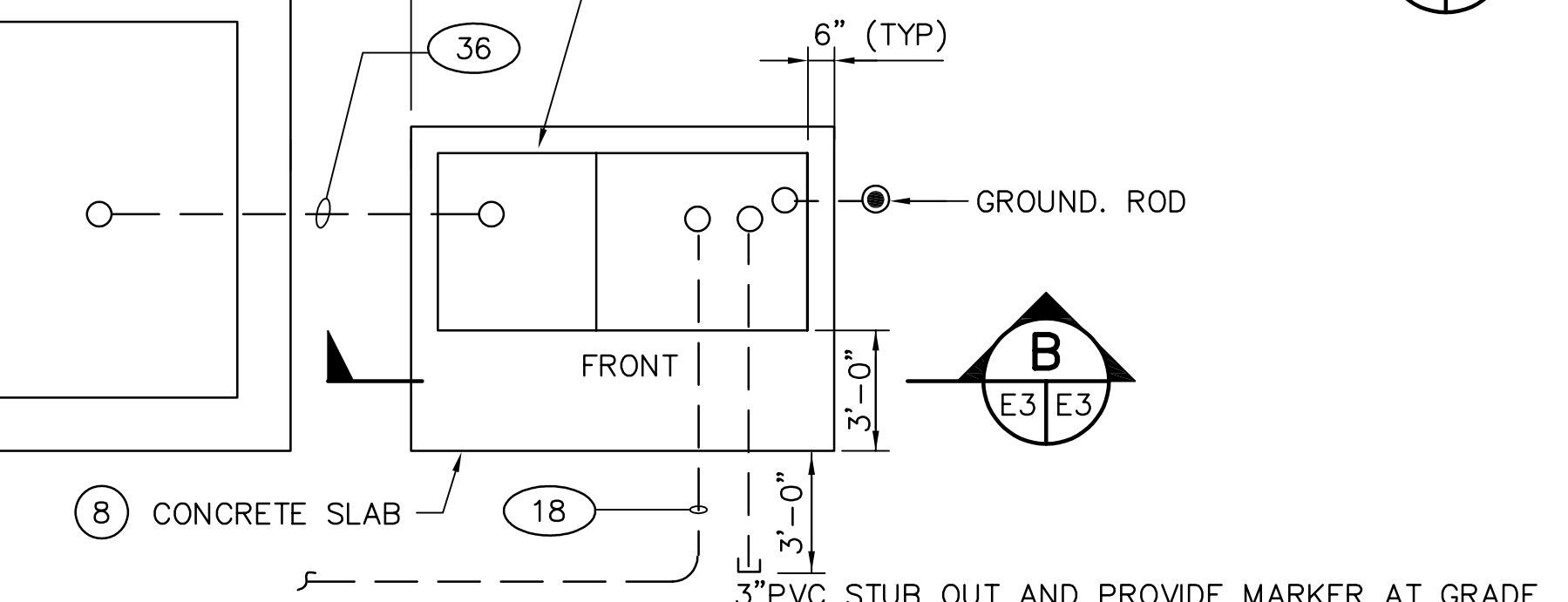
NOT TO SCALE

NOT TO SCALE



UTILITY PRIMARY SERVICE
VERIFY REQUIREMENTS WITH UTILITY CO.
SLAB FOR UTILITY TRANSFORMER, VERIFY SIZE &
TYPE OF SLAB WITH UTILITY CO. SEE PROPOSED
LOCATION THIS SHEET AND VERIFY FINAL POSITION
WITH OWNER AND UTILITY CO.

3
E3/E3
SWITCHBOARD "PDN"
SEE ELEVATION THIS SHEET. SEE PROPOSED
LOCATION THIS SHEET AND VERIFY FINAL
POSITION WITH OWNER AND UTILITY CO.



NORTH DOCKS UTILITY SERVICE DETAIL 2
NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

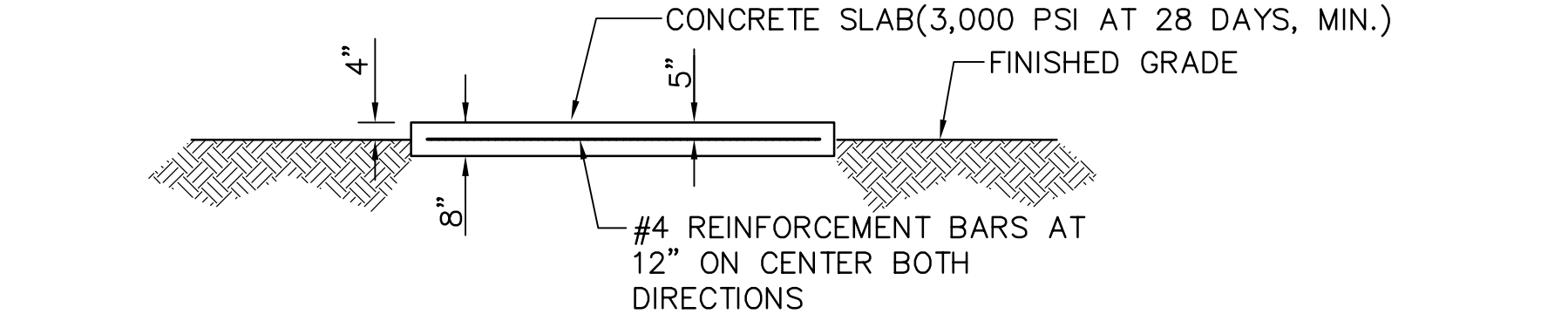
NOT TO SCALE

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NOT TO SCALE

NOT TO SCALE



SECTION B
NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

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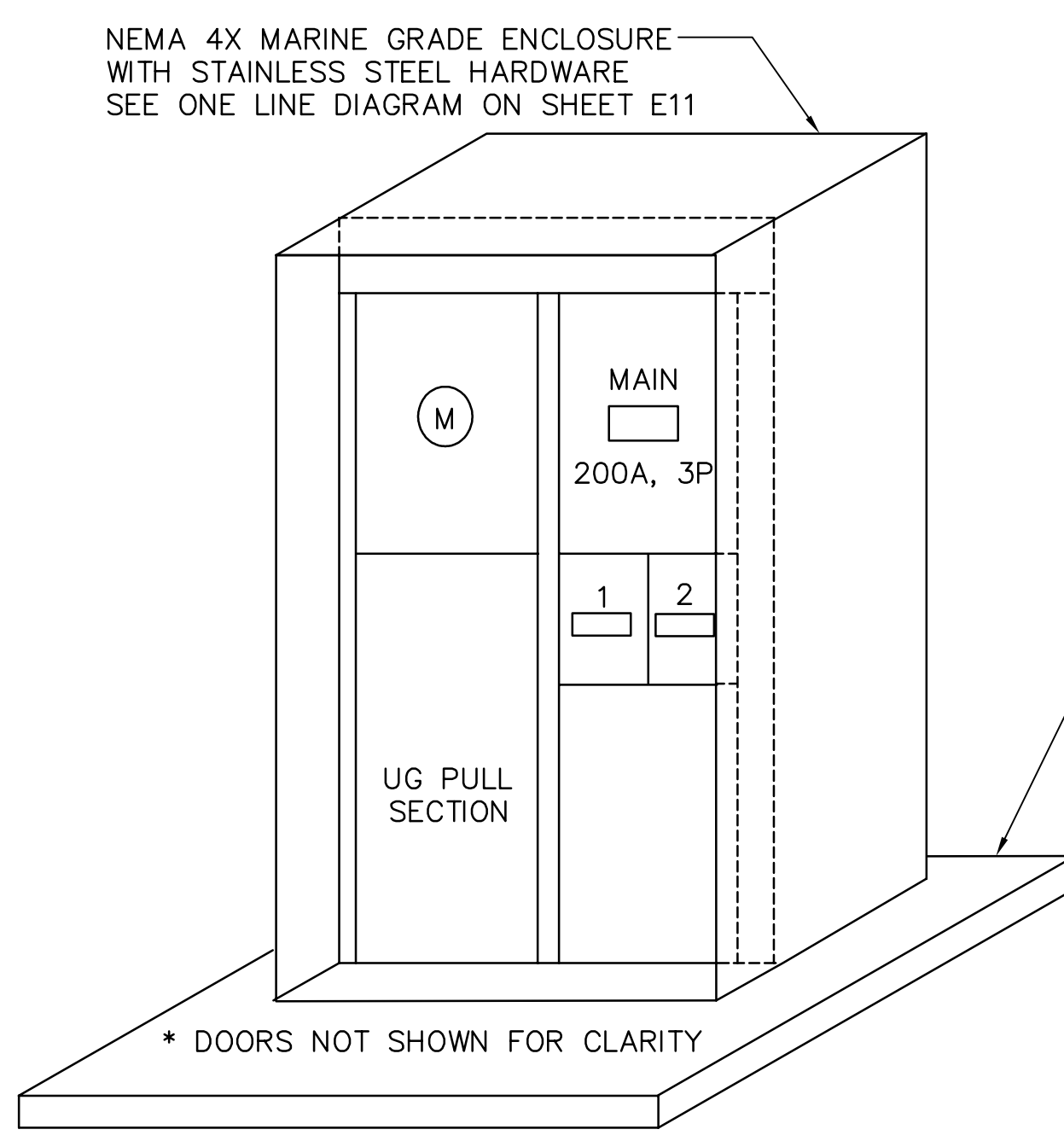
NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOTES:

- 1 DISCONNECT AND REMOVE FEEDS FROM DECK TO BE REPLACED BACK TO PANEL. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- 2 CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. INSTALL NEW FEEDERS IN EXISTING & NEW CONDUIT FROM REINSTALLED POWER PEDESTALS TO EXISTING PANEL AND MAKE CONNECTION TO ORIGINAL BREAKER.
- 3 DISCONNECT AND REMOVE FEEDS FROM EXISTING DECK TO BE REPLACED BACK TO POWER PEDESTAL THAT WILL REMAIN. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- 4 CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. PROVIDE NEW FEEDERS IN EXISTING AND NEW CONDUIT FROM REINSTALLED POWER PEDESTAL TO EXISTING POWER PEDESTAL TO REMAIN AND MAKE CONNECTIONS.
- 5 DESIGNATES PHASE CONNECTION FOR POWER CIRCUIT.
- 6 DISCONNECT AND REMOVE EXISTING 1 1/2" CONDUIT AND FEEDER BACK TO EXISTING PANEL.
- 7 PROVIDE NEW FEEDERS AND CONDUIT FROM NEW 200 AMP DISCONNECT TO NEW SWBD. "PDN". SEE ONE LINE DIAGRAM ON SHEET E11.
- 8 SIZE OF SLAB WILL DEPEND ON MANUFACTURER'S OVERALL DIMENSION. THE SLAB SHALL EXTEND 3' BEYOND THE FRONT OF THE SWITCHBOARD AND 6" ON ALL OTHER SIDES.



ELEVATION-SWITCHBOARD 'PDN' 3
NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

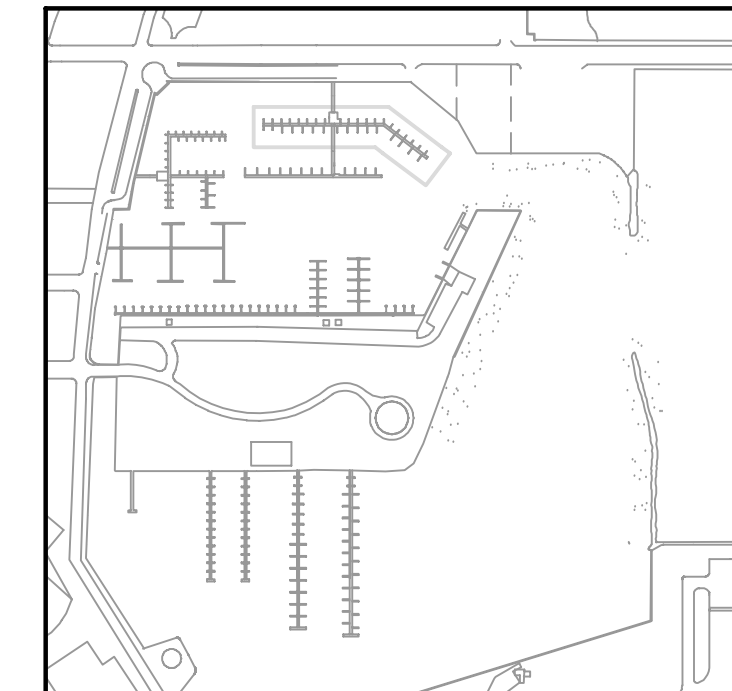
NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE



KEY PLAN

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOTE: SCALE: 1"=20'
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

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TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

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CHECKED BY: TWS	DATE: 02/04			
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BM No.	THRU			
LOCATION:	EL.			
RECORD DRAWINGS			TV	07.27.07

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TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

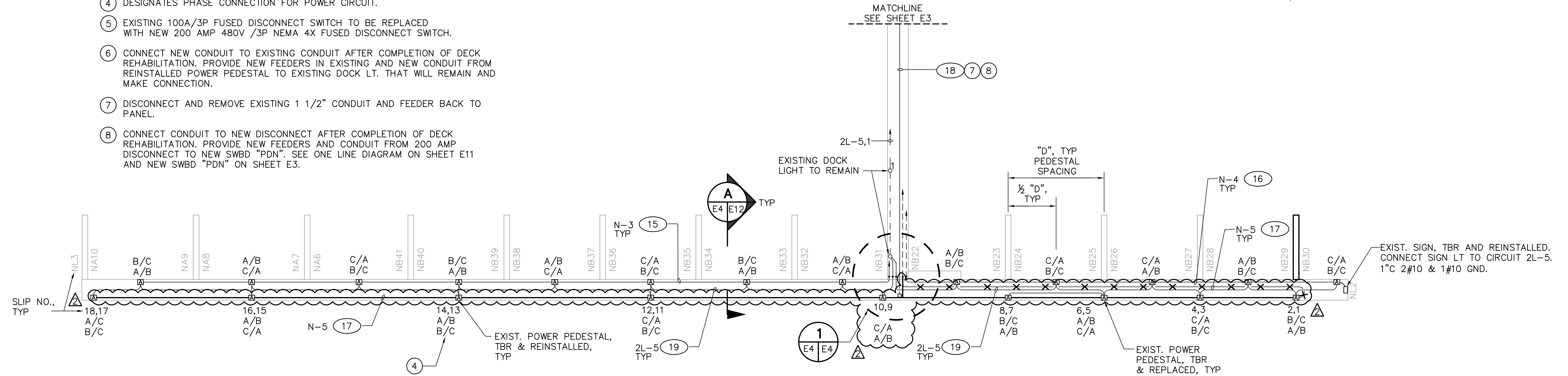
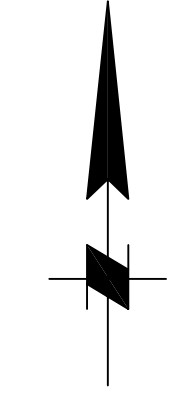
ENGINEERING, STORMWATER, &
TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
ELECTRICAL PLAN NORTH DOCKS
SHEET 1 OF 2

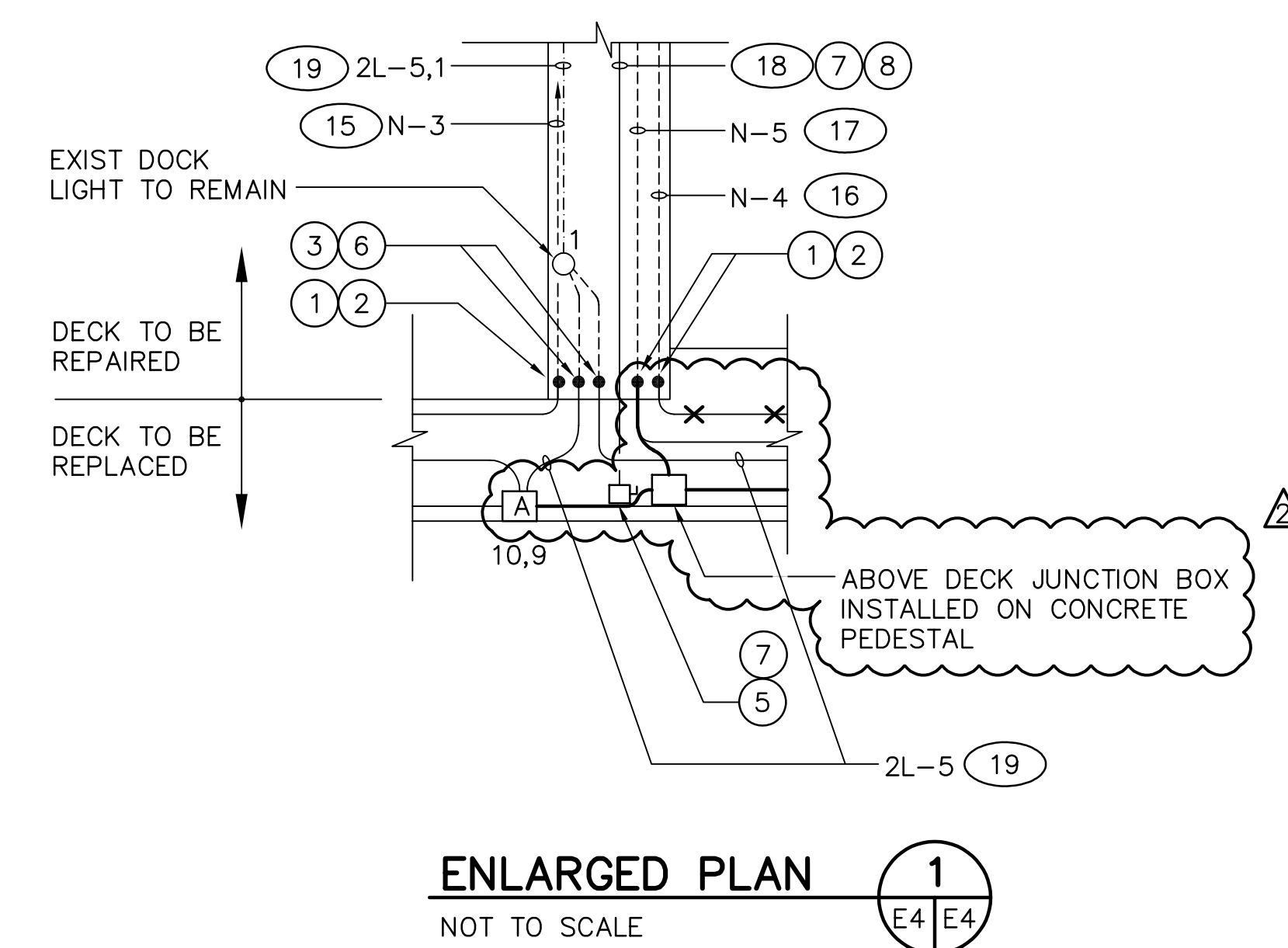
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DRAWING No.: 10175-69
SHEET No.: E3

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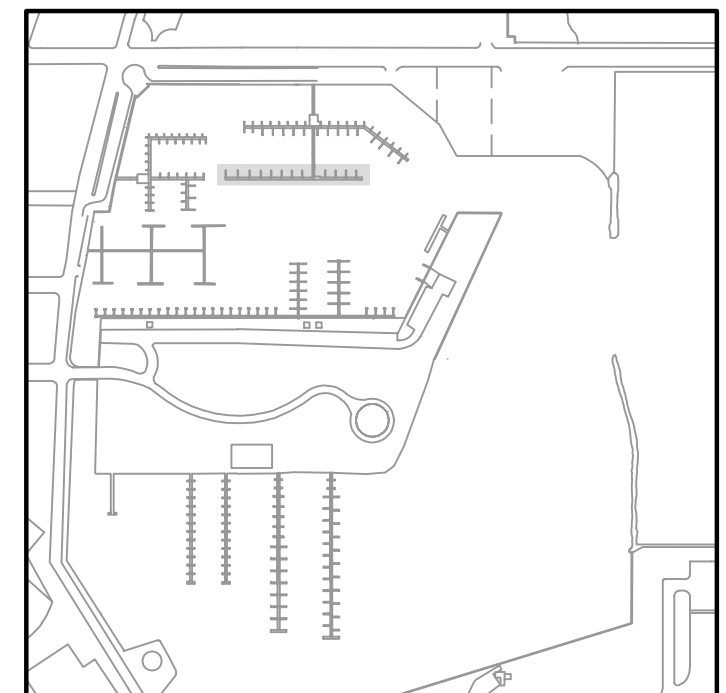
- ① DISCONNECT AND REMOVE FEEDS FROM DECK TO BE REPLACED BACK TO PANEL. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- ② CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. INSTALL NEW FEEDERS IN EXISTING & NEW CONDUIT FROM REINSTALLED POWER PEDESTALS TO EXISTING PANEL AND MAKE CONNECTIONS TO ORIGINAL BREAKER.
- ③ DISCONNECT AND REMOVE FEEDS FROM EXISTING DECK TO BE REPLACED BACK TO EXISTING DOCK LIGHT THAT WILL REMAIN. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- ④ DESIGNATES PHASE CONNECTION FOR POWER CIRCUIT.
- ⑤ EXISTING 100A/3P FUSED DISCONNECT SWITCH TO BE REPLACED WITH NEW 200 AMP 480V /3P NEMA 4X FUSED DISCONNECT SWITCH.
- ⑥ CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. PROVIDE NEW FEEDERS IN EXISTING AND NEW CONDUIT FROM REINSTALLED POWER PEDESTAL TO EXISTING DOCK LT. THAT WILL REMAIN AND MAKE CONNECTION.
- ⑦ DISCONNECT AND REMOVE EXISTING 1 1/2" CONDUIT AND FEEDER BACK TO PANEL.
- ⑧ CONNECT CONDUIT TO NEW DISCONNECT AFTER COMPLETION OF DECK REHABILITATION. PROVIDE NEW FEEDERS AND CONDUIT FROM 200 AMP DISCONNECT TO NEW SWBD "PDN". SEE ONE LINE DIAGRAM ON SHEET E11 AND NEW SWBD "PDN" ON SHEET E3.



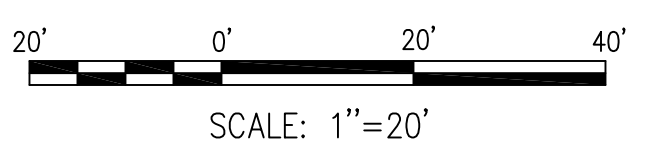
ELECTRICAL PLAN – NORTH DOCKS
1"=20'



ENLARGED PLAN
NOT TO SCALE



KEY PLAN



SCALE: 1"=20'

NOTE:
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RECORD DRAWING
ISSUED 09 AUGUST 2007

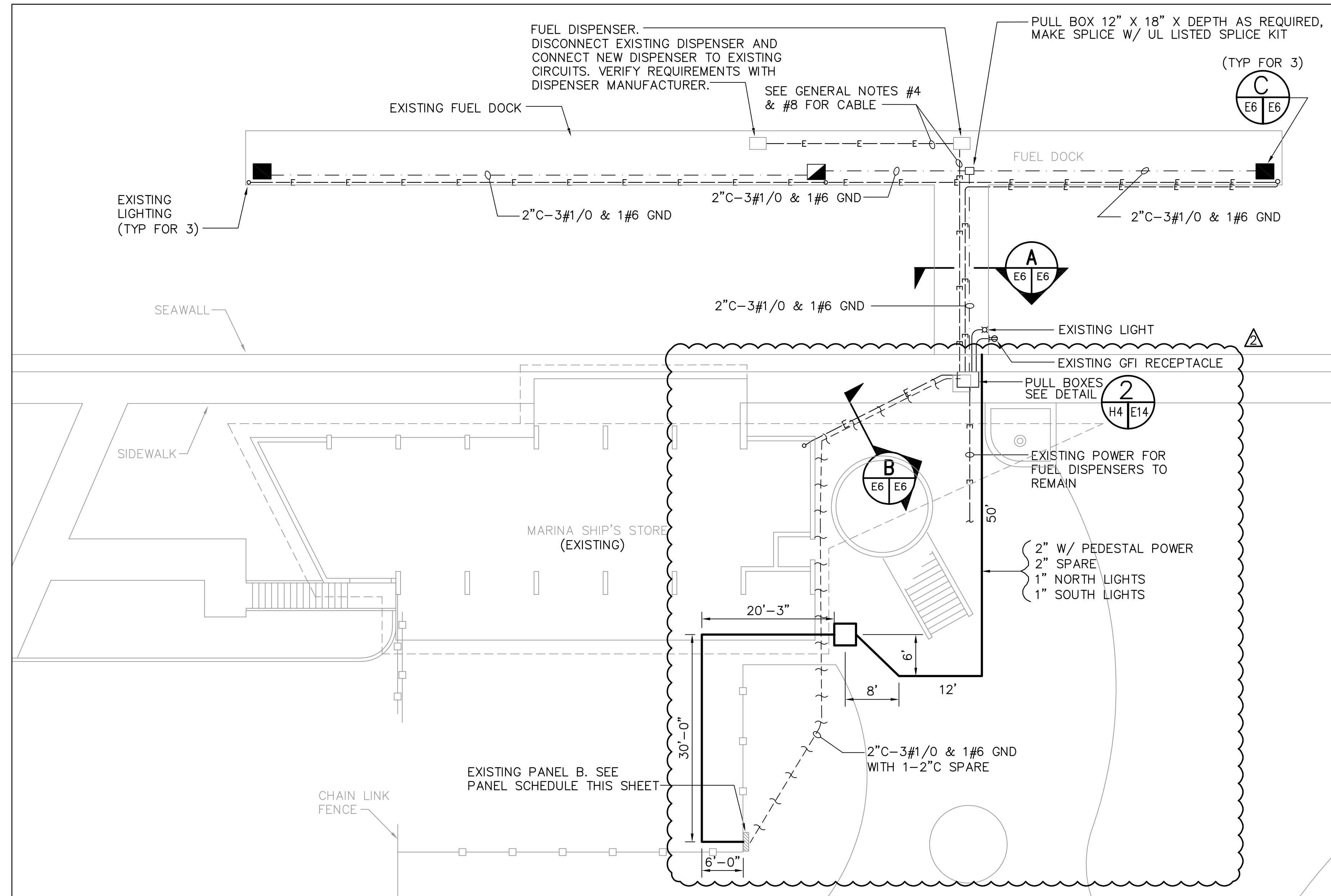
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CHECKED BY: TWS	DATE: 02/04			
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		RECORD DRAWINGS	TV	07.27.07

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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
ELECTRICAL PLAN NORTH DOCKS
SHEET 2 OF 2

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-70
SHEET No.: **E4**



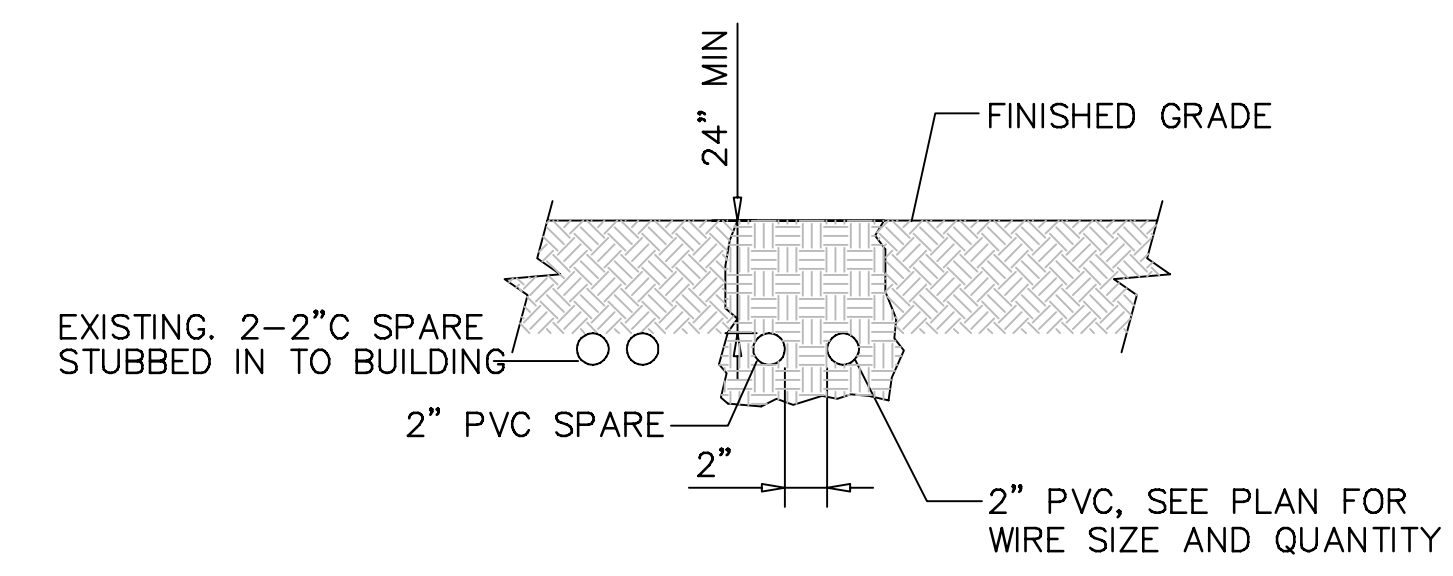
FUEL DOCK PLAN 1
1"=20'

GENERAL NOTES FOR FUEL DOCK:

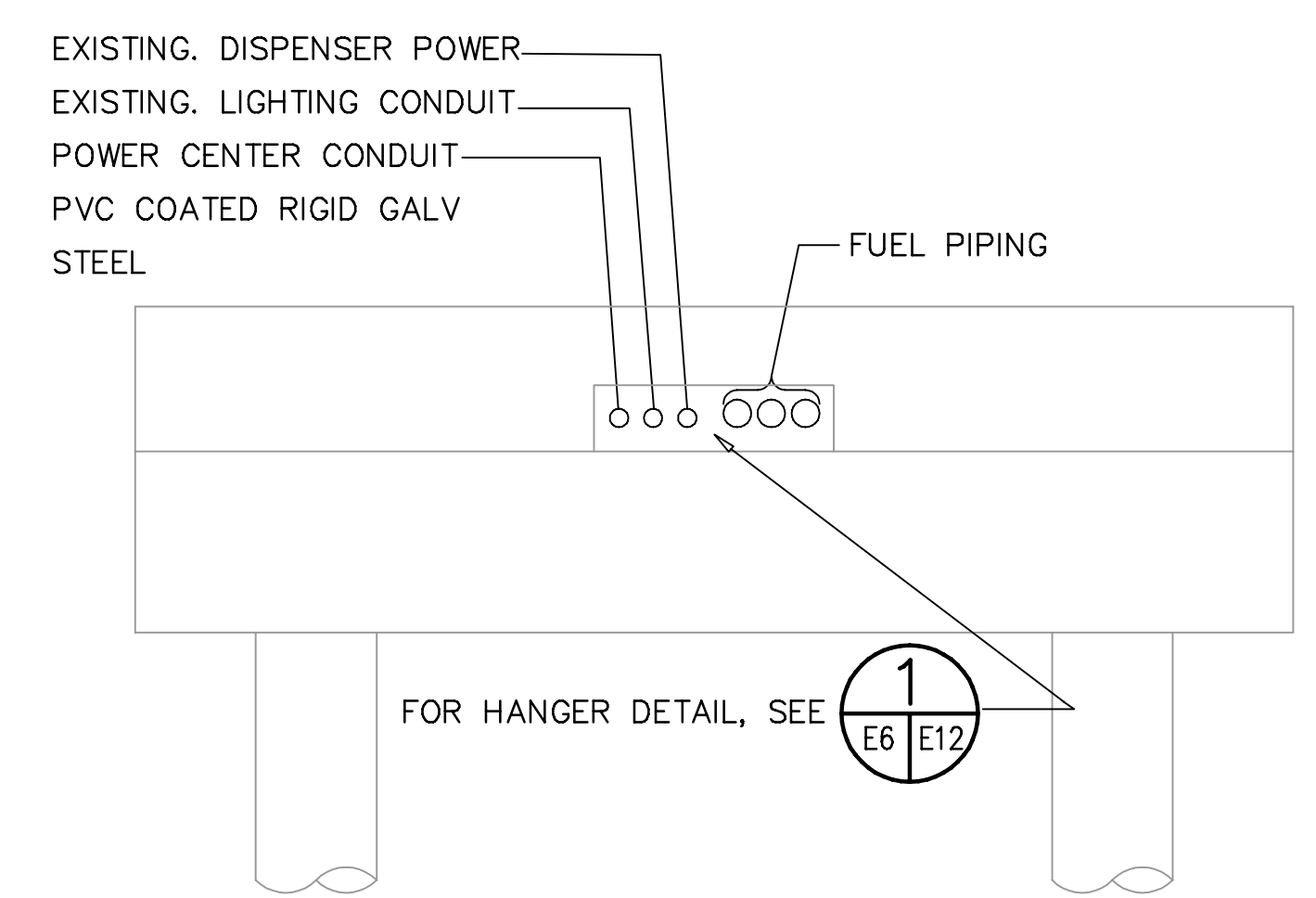
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS DESIGNED AND APPROVED.
- ALL EQUIPMENT INSTALLED ON FUEL DOCK SHALL BE WEATHERTIGHT AND CORROSION RESISTANT.
- CONDUIT INSTALLATION AND THE ELECTRICAL EQUIPMENT ON THE FUEL DOCK SHALL COMPLY WITH ARTICLE 500 OF THE LATEST ADDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.). PROVIDE EXPLOSION-PROOF SEAL FITTINGS WHERE REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, AND MEET ALL STRUCTURAL CODE REQUIREMENTS. THESE DRAWINGS ARE PRIMARILY DIAGRAMMATIC, AND DO NOT SHOW ALL SUCH REQUIRED BENDS, OFFSETS, FITTING, BOXES, ETC.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE SEISMIC REQUIREMENTS OF THE LATEST EDITION OF THE UNIFORM BUILDING CODE AND ALL LOCAL ORDINANCES.
- THE FUEL DOCK WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.
- INSTALL DISPENSER CONTROL AND POWER CABLE PER FUEL DISPENSER SHOP DRAWING REQUIREMENTS. RE-USE EXISTING CONDUITS.

FUEL DOCK SYMBOL LIST:

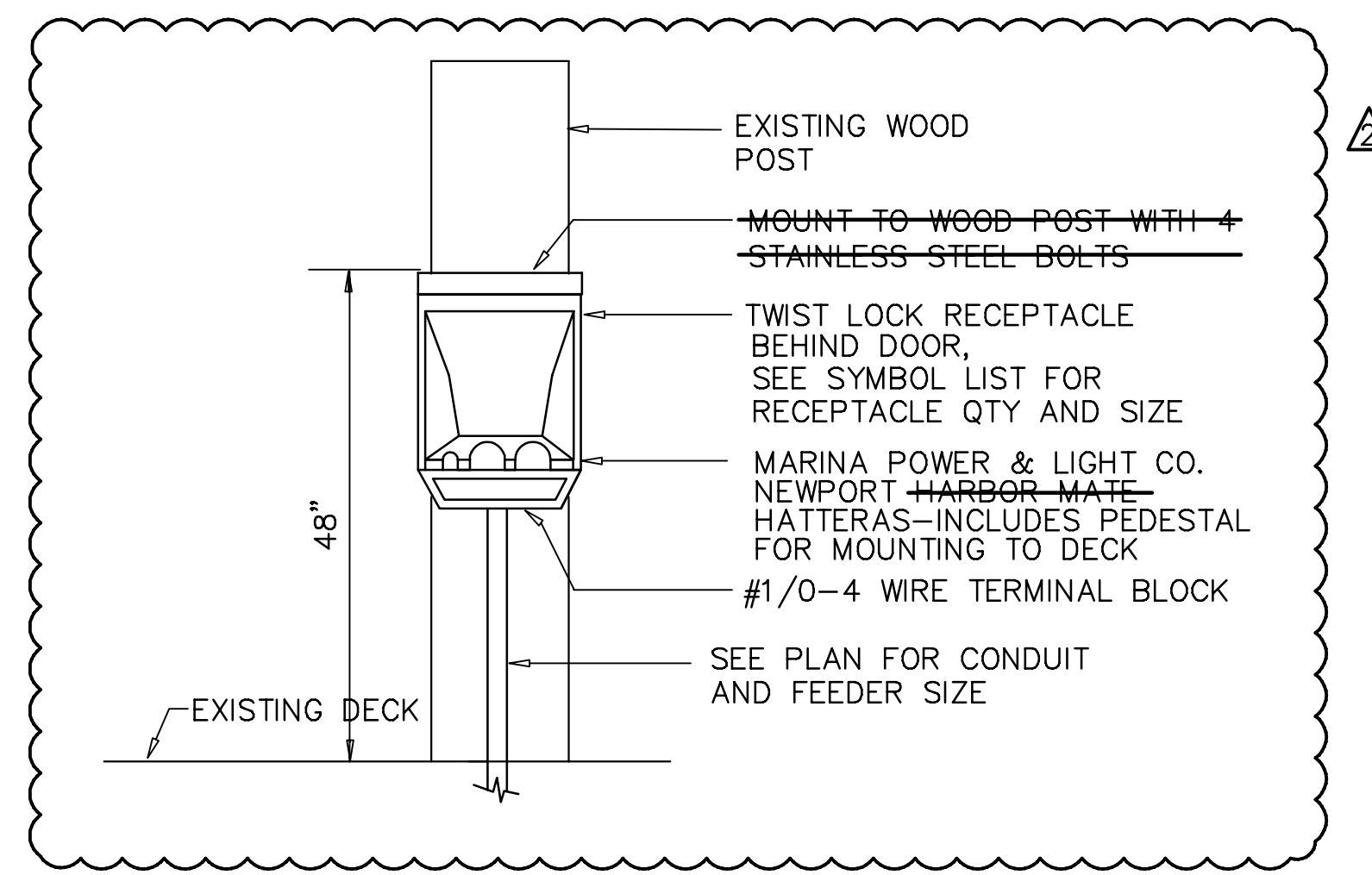
- CONDUIT UNDERGROUND
- CONDUIT IN DOCK
- E--- EXISTING CONDUIT AND WIRE TO REMAIN.
- ▨ EXISTING POWER PANEL
- 1 --- DETAIL NUMBER
- E1 | E2 --- SHEET SHOWN ON SHEET TAKEN FROM
- UTILITY POWER CENTER 1-30A 120V RECEPTACLE 1-50A 240V RECEPTACLE
- ▣ UTILITY POWER CENTER 2-30A 120V RECEPTACLES WITH LOOP FEED TERMINAL BLOCK



SECTION B
Not To Scale



DOCK SECTION A
Not To Scale

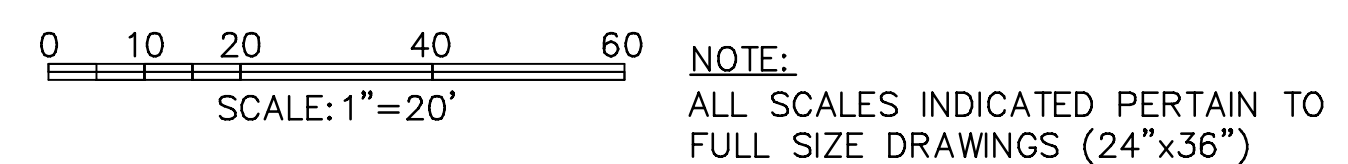


UTILITY POWER CENTER ELEVATION C
Not To Scale

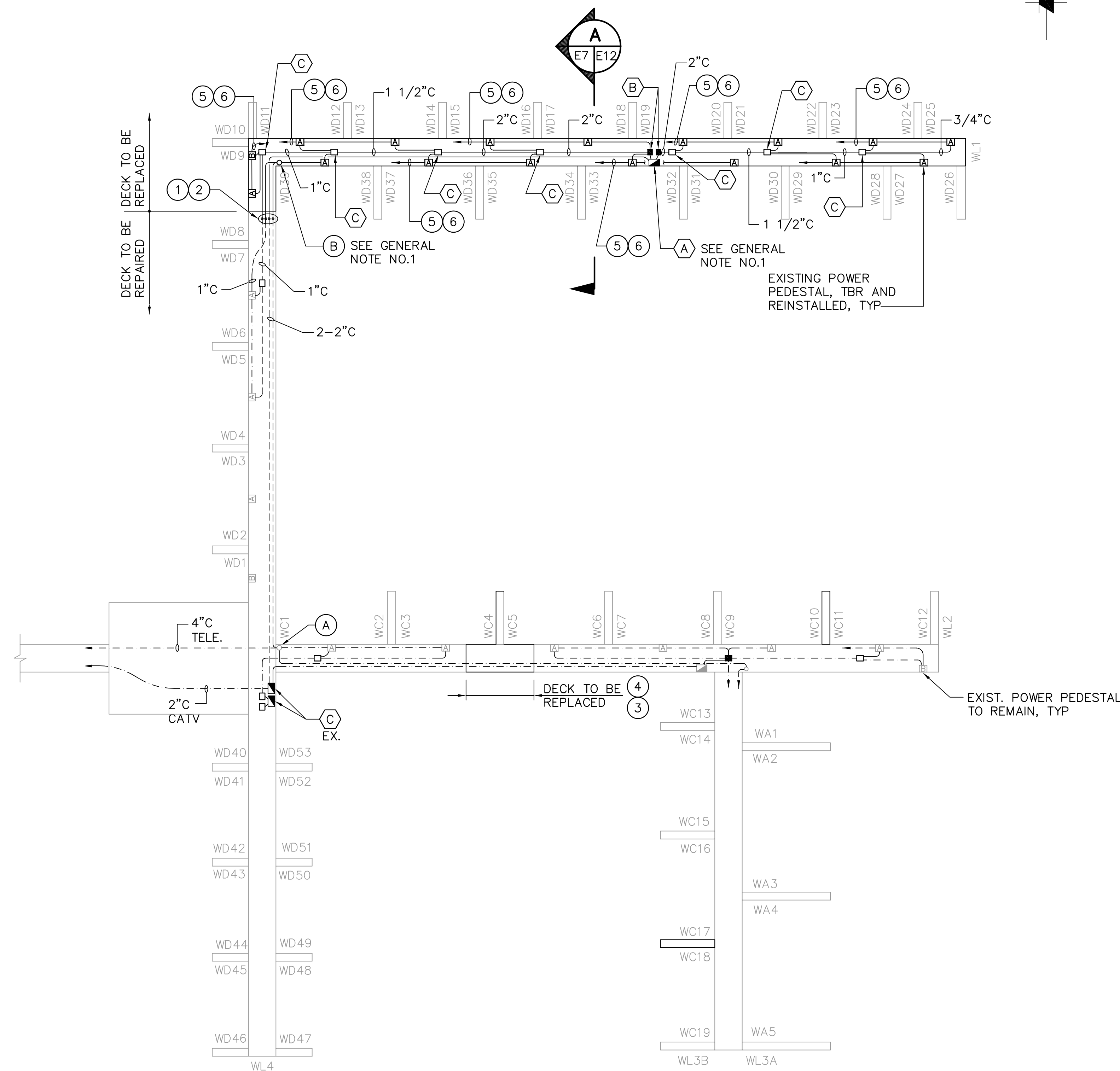
LOADS		SEE NOTE	OUTLETS MISC	VA REC	VA LGT	A	B	CKT	BKR/POLE	A	B	BKR/POLE	VA	OUTLETS LGT	SEE NOTE	LOADS	
SPARE	1							1	30/1	*	*	20/1	2	800		1	2
SPARE	1							1	30/1	*	*	20/1	4	800		1	2
SPARE	1							5	30/1	*	*	20/1	6	600		1	2
FINGER PIER	2		1	1		800	7	30/1	*	*	*	150/2	8	17280		6	3
								9		*	*		10				
								11		*	*		12				
								13		*	*		14				
								15		*	*		16				
								17		*	*		18				
								19		*	*		20				
								21		*	*		22				
								23		*	*		24				
								25		*	*		26				
								27		*	*		28				
								29		*	*		30				

NOTES:
1. EXISTING BREAKER TO BECOME SPARE
2. EXISTING BREAKER NO CHANGE
3. NEW BREAKER

TOTAL A = 18680 VOLT-AMPS
TOTAL B = 18880 VOLT-AMPS
CL = 240 VOLT-AMPS
TOTAL = 37,800 VA @ 240V, 1φ = 158 AMPS



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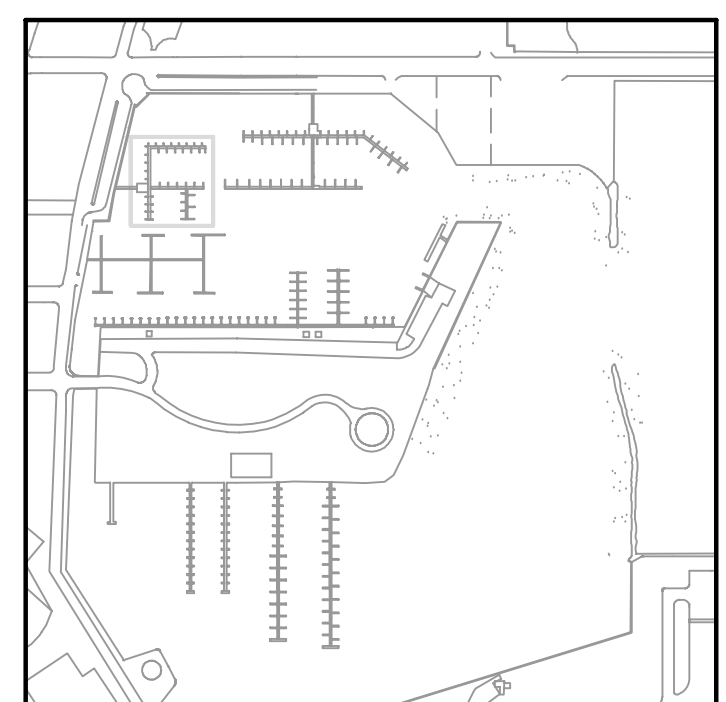


NOTES:

- ① DISCONNECT AND REMOVE EXISTING CABLE FROM DECK THAT WILL BE REPLACED BACK TO NEAREST TELEPHONE TERMINAL CABINET OR 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 REINSTALLED POWER PEDESTAL TO UNDISTURBED TELEPHONE OR CATV TERMINAL CABINETS.
- ③ THE CONTRACTOR SHALL SUPPORT EXISTING CONDUITS DURING DECK REPLACEMENT.
- ④ THE CONTRACTOR SHALL SUSPEND EXISTING CONDUIT UNDER NEW PORTION OF DECK AS SHOWN ON DETAIL 1 SHEET E12.
- ⑤ DISCONNECT AND REMOVE EXISTING TELEPHONE CABLE AND CONDUIT FROM DECK THAT WILL BE REPLACED, BACK TO NEAREST TELEPHONE TERMINAL CABINET.
- ⑥ PROVIDE AND INSTALL NEW CONDUIT AFTER COMPLETION OF DECK REHABILITATION FROM REINSTALLED POWER PEDESTALS TO UNDISTURBED TELEPHONE TERMINAL CABINETS.

GENERAL NOTES FOR COMMUNICATION:

1. ALL EXISTING TELEPHONE AND CATV TERMINAL CABINETS REMOVED FROM DECK SHALL BE REINSTALLED IN-KIND.
2. THE CONTRACTOR SHALL REPLACE AND RECONNECT ALL REMOVED TELEPHONE AND CATV CONDUIT.
3. THE CONTRACTOR SHALL CONTACT THE CATV AND TELEPHONE UTILITY COMPANY BEFORE STARTING DEMOLITION OF DOCKS. CLOSE COORDINATION BETWEEN CATV AND TELEPHONE COMPANY MUST BE MAINTAINED DURING DEMOLITION AND RECONNECTION OF CONDUIT AND CABLE.
4. ALL EXISTING EQUIPMENT TO BE REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED BY THE CONTRACTOR, AS REQUIRED.
5. ALL TELEPHONE AND CATV CONNECTORS AND FITTINGS FOR PROPOSED AND/OR RECONDITIONED EQUIPMENT SHALL BE MARINE GRADE.
6. ALL NEW CONDUCTORS SHALL BE CONTINUOUS BETWEEN "ABOVE DECK" TERMINAL CABINETS AND POWER PEDESTALS. NO SPLICES AND/OR "BELOW DECK" TERMINATIONS SHALL BE PERMITTED.

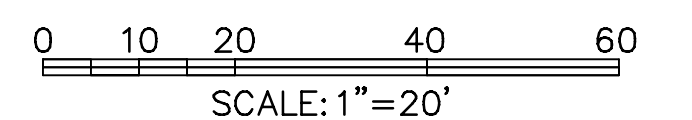


KEY PLAN

COMMUNICATION PLAN - WEST DOCKS ④

1"=20'

X5 E7



SCALE: 1"=20'
NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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DRAWN BY: PRB	DATE: 02/04			
CHECKED BY: TWS	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
BM No.	EL.			
LOCATION:				

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ENGINEERS
1509 W. SWANN AVENUE, SUITE 225
TAMPA, FLORIDA 33606
813-258-8818
LIC: EB-0004877

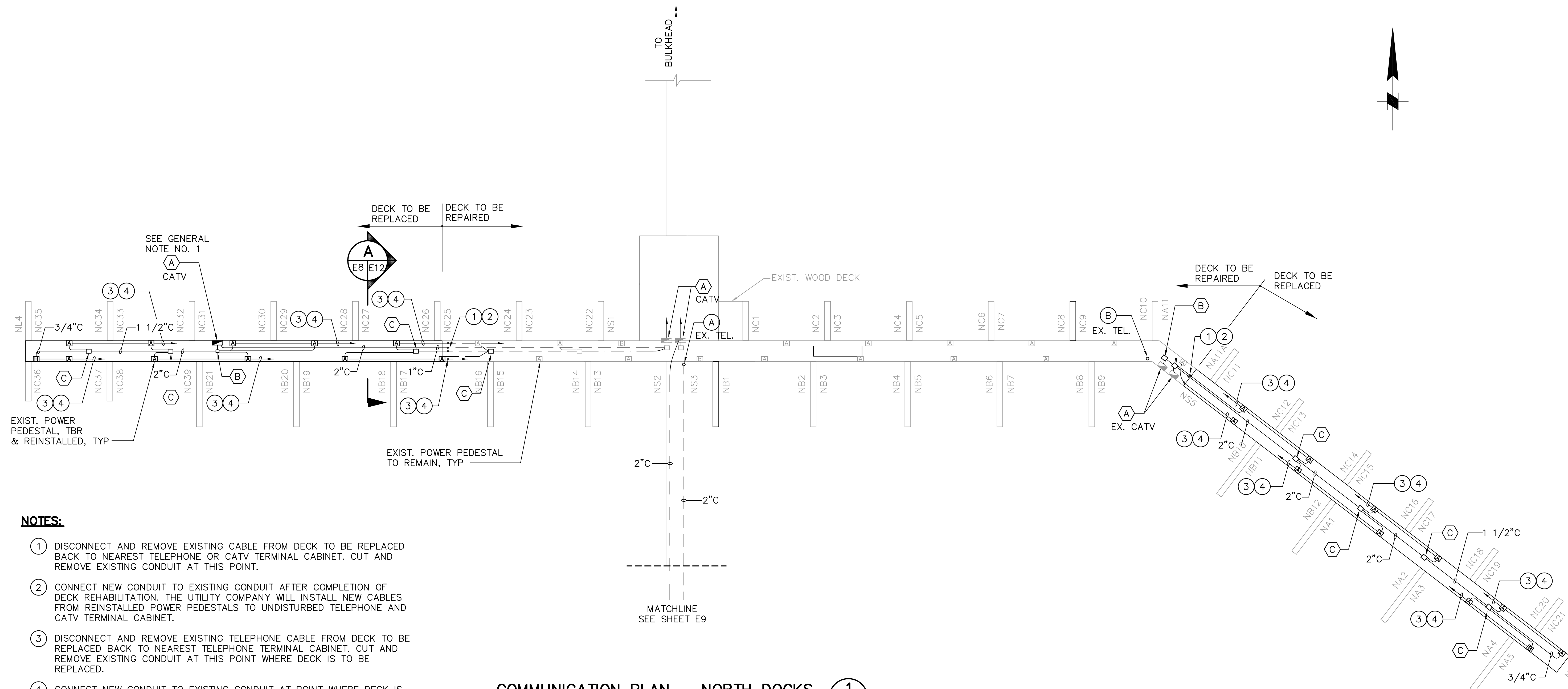
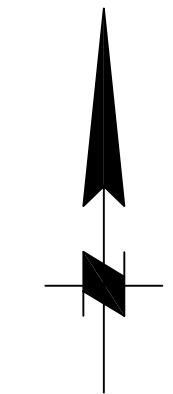
APPROVED BY: [Signature]
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

COMMUNICATION PLAN
WEST DOCKS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-73
SHEET No.: **E7**

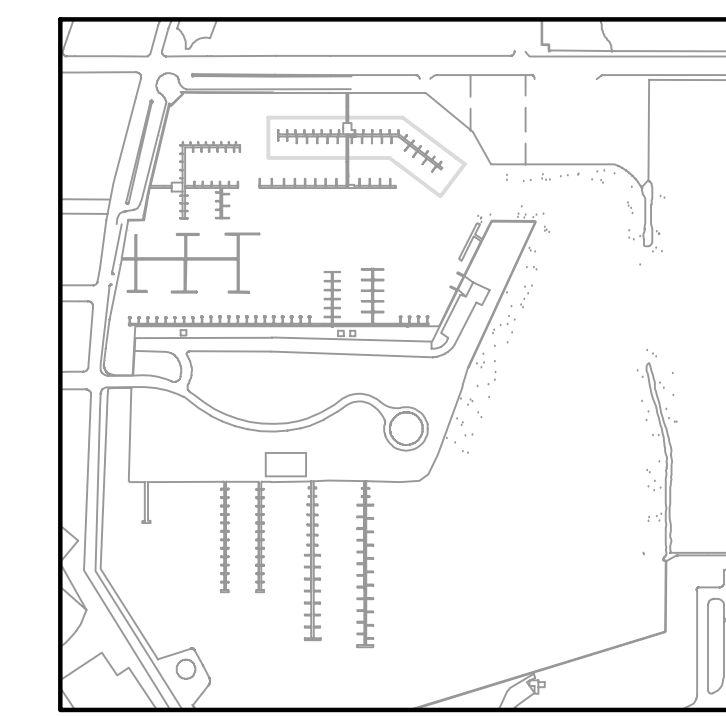
TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296



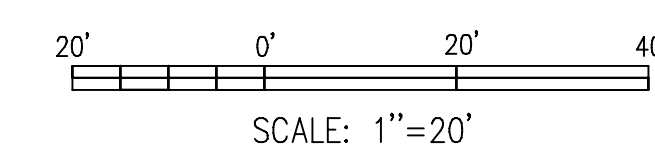
NOTES:

- 1 DISCONNECT AND REMOVE EXISTING CABLE FROM DECK TO BE REPLACED BACK TO NEAREST TELEPHONE OR CATV TERMINAL 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 REINSTALLED POWER PEDESTALS TO UNDISTURBED TELEPHONE AND CATV TERMINAL CABINET.
- 3 DISCONNECT AND REMOVE EXISTING TELEPHONE CABLE FROM DECK TO BE REPLACED BACK TO NEAREST TELEPHONE TERMINAL CABINET. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT WHERE DECK IS TO BE REPLACED.
- 4 CONNECT NEW CONDUIT TO EXISTING CONDUIT AT POINT WHERE DECK IS TO BE REPLACED. THE UTILITY COMPANY WILL INSTALL NEW CABLES IN EXISTING AND NEW CONDUIT FROM REINSTALLED POWER PEDESTALS TO EXISTING UNDISTURBED TELEPHONE TERMINAL CABINET.

COMMUNICATION PLAN – NORTH DOCKS 1
1"=20'



KEY PLAN



SCALE: 1"=20'

NOTE:
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813-258-8818
LIC: EB-0004877

APPROVED BY:
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
COMMUNICATION PLAN NORTH DOCKS
SHEET 1 OF 2

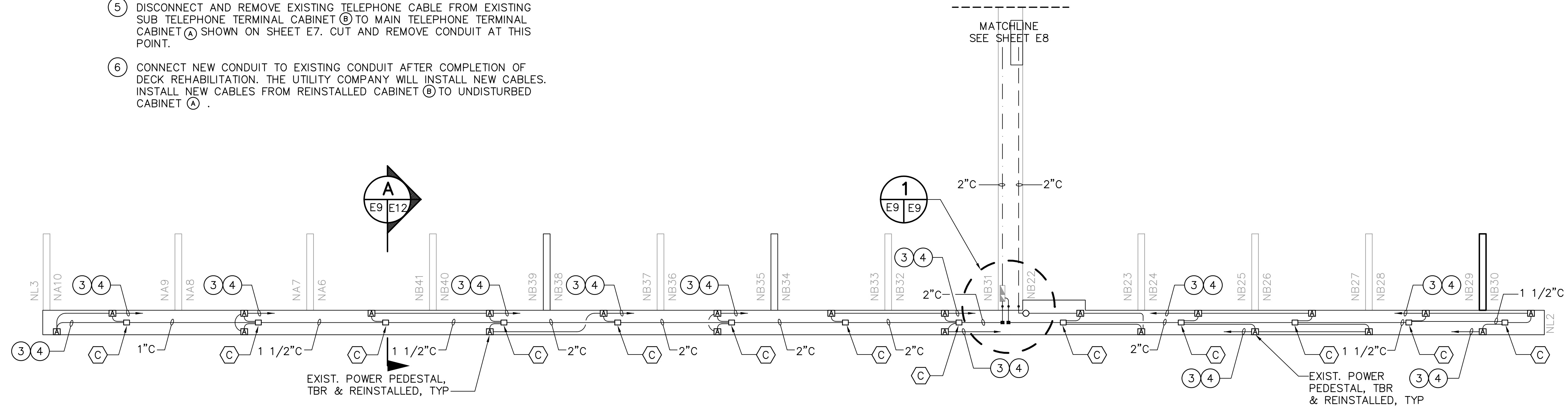
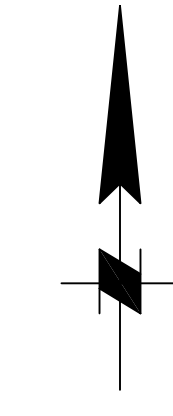
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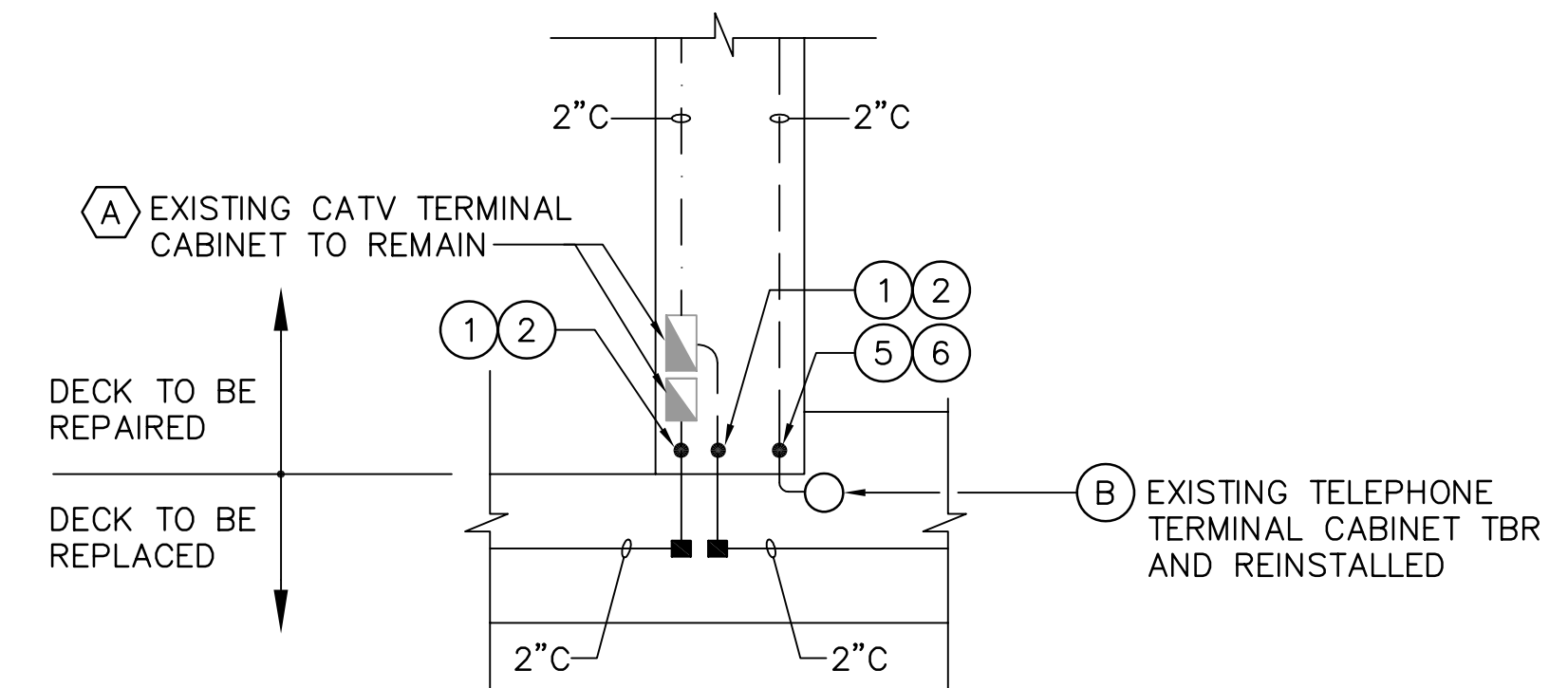
TYLER SPARKS, P.E. DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

NOTES:

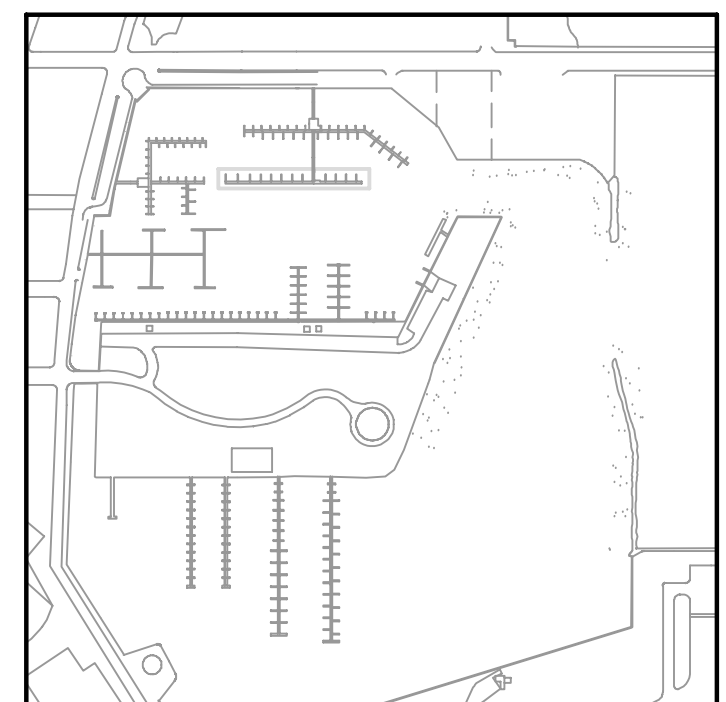
- ① DISCONNECT AND REMOVE EXISTING CABLE FROM DECK TO BE REPLACED BACK TO NEAREST CATV CABINET. CUT AND REMOVE EXISTING CONDUIT AT THIS POINT.
- ② CONNECT NEW CONDUIT TO EXISTING CONDUIT AFTER COMPLETION OF DECK REHABILITATION. THE UTILITY COMPANY WILL INSTALL NEW CABLES FROM REINSTALLED POWER PEDESTAL TO UNDISTURBED CATV CABINET.
- ③ DISCONNECT AND REMOVE EXISTING TELEPHONE CABLE AND CONDUIT BACK TO SUB-TELEPHONE TERMINAL CABINET ⑥ .
- ④ PROVIDE AND INSTALL NEW CONDUIT FROM REINSTALLED POWER PEDESTAL TO TELEPHONE CABINET ⑥ AFTER COMPLETION OF DECK REHABILITATION.
- ⑤ DISCONNECT AND REMOVE EXISTING TELEPHONE CABLE FROM EXISTING SUB TELEPHONE TERMINAL CABINET ⑥ TO MAIN TELEPHONE TERMINAL CABINET ① SHOWN ON SHEET E7. 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 REINSTALLED CABINET ⑥ TO UNDISTURBED CABINET ① .



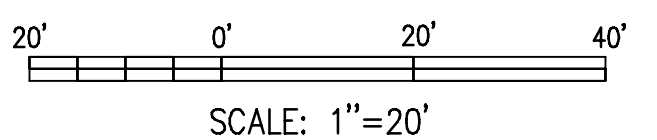
COMMUNICATION PLAN – NORTH DOCKS ①
1"=20'



ENLARGED PLAN ①
NOT TO SCALE



KEY PLAN



SCALE: 1"=20'

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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CHECKED BY: TWS	DATE: 02/04			
FIELD BOOK No.	PAGE THRU			
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813-258-8618
LIC: EB-0004877

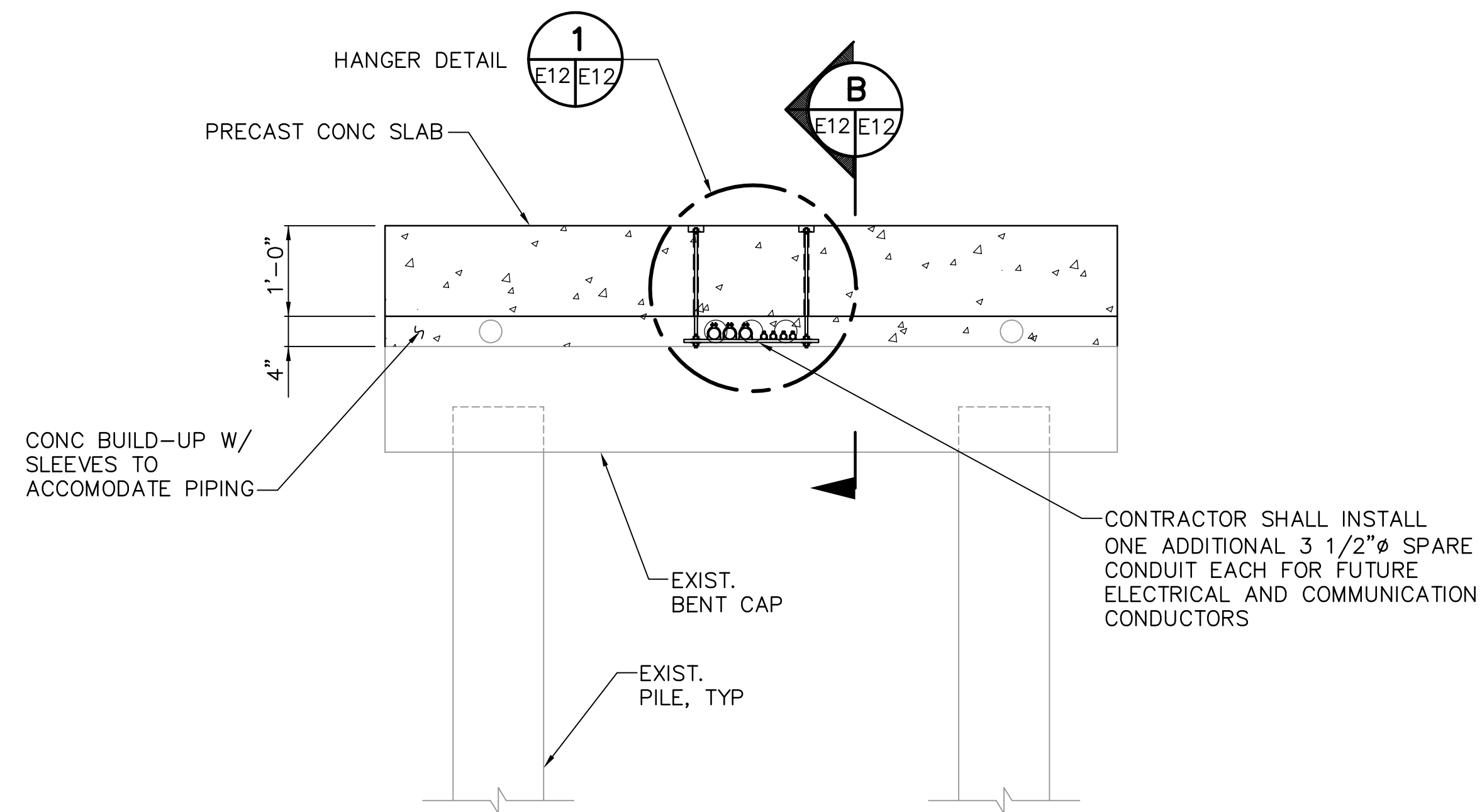
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
COMMUNICATION PLAN NORTH DOCKS
SHEET 2 OF 2

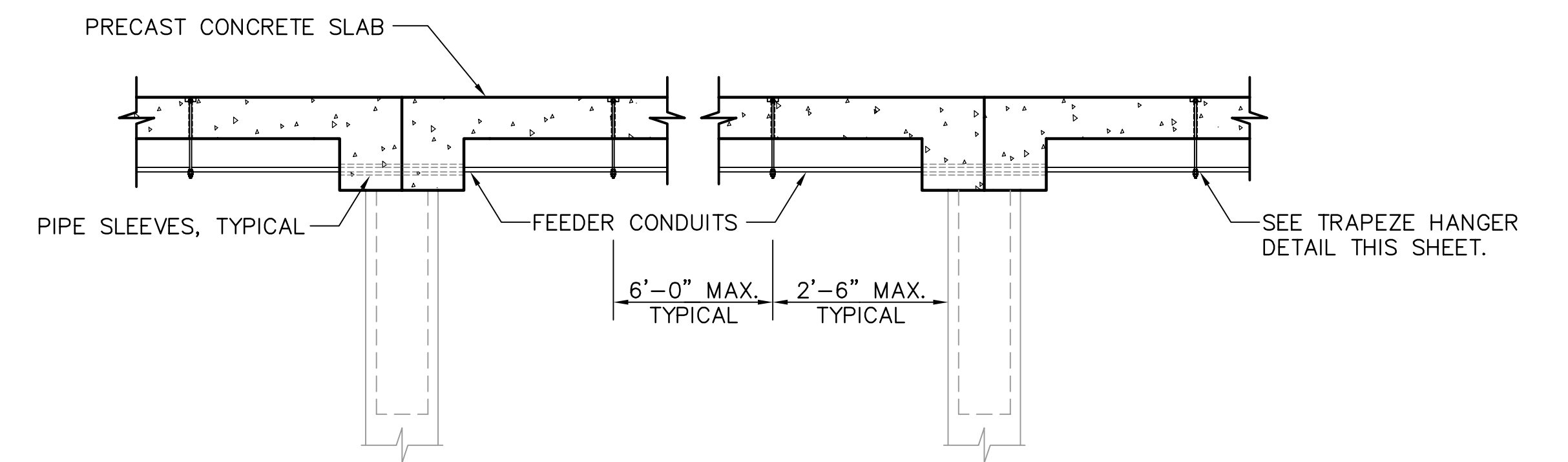
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DRAWING No.: 10175-75
SHEET No.: **E9**

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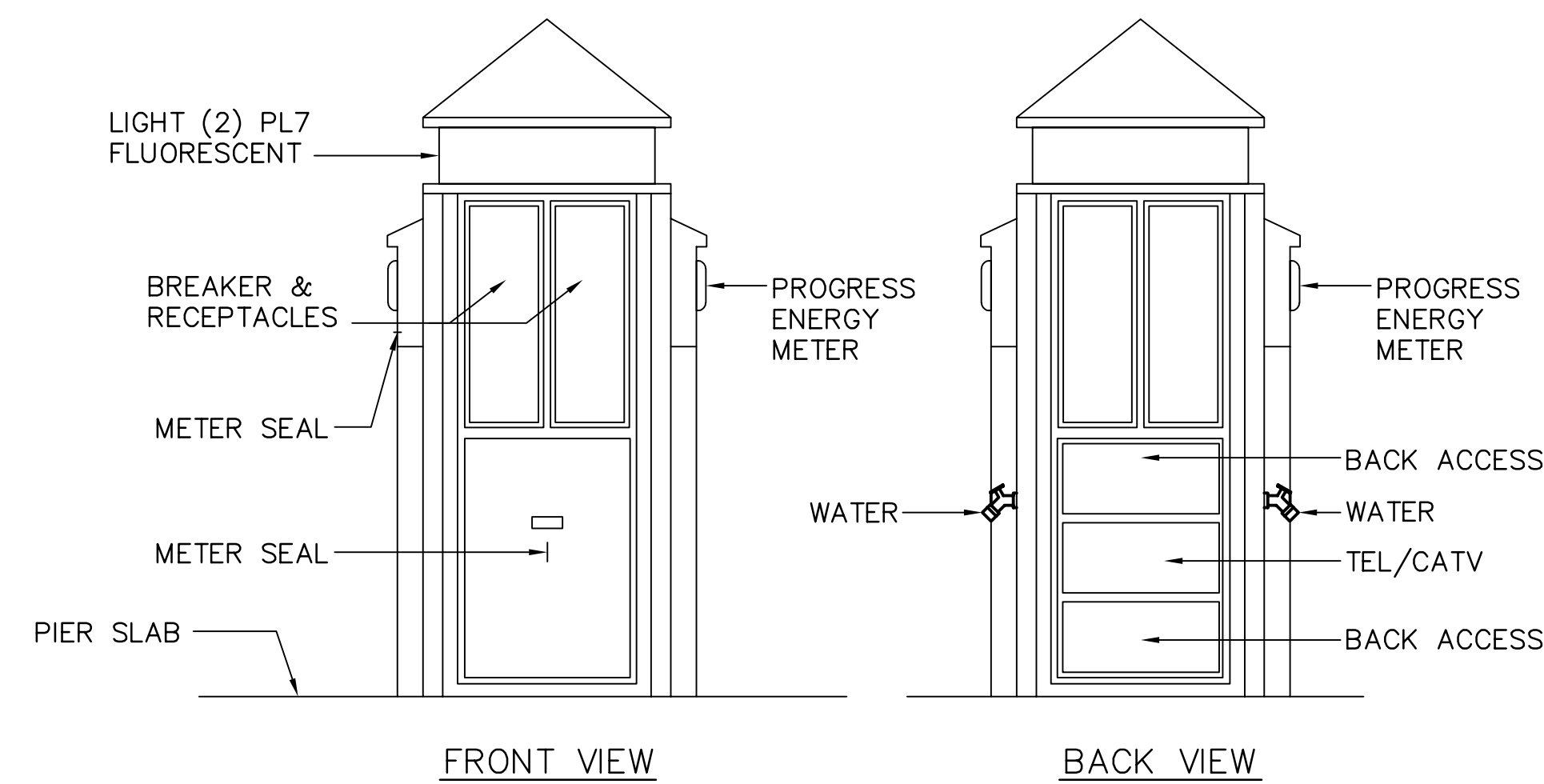
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TYP. MAIN PIER WITH TRAPEZE HANGER (A)
NOT TO SCALE
E2, E12
E3, E4, E5, E7, E8, E9, E10



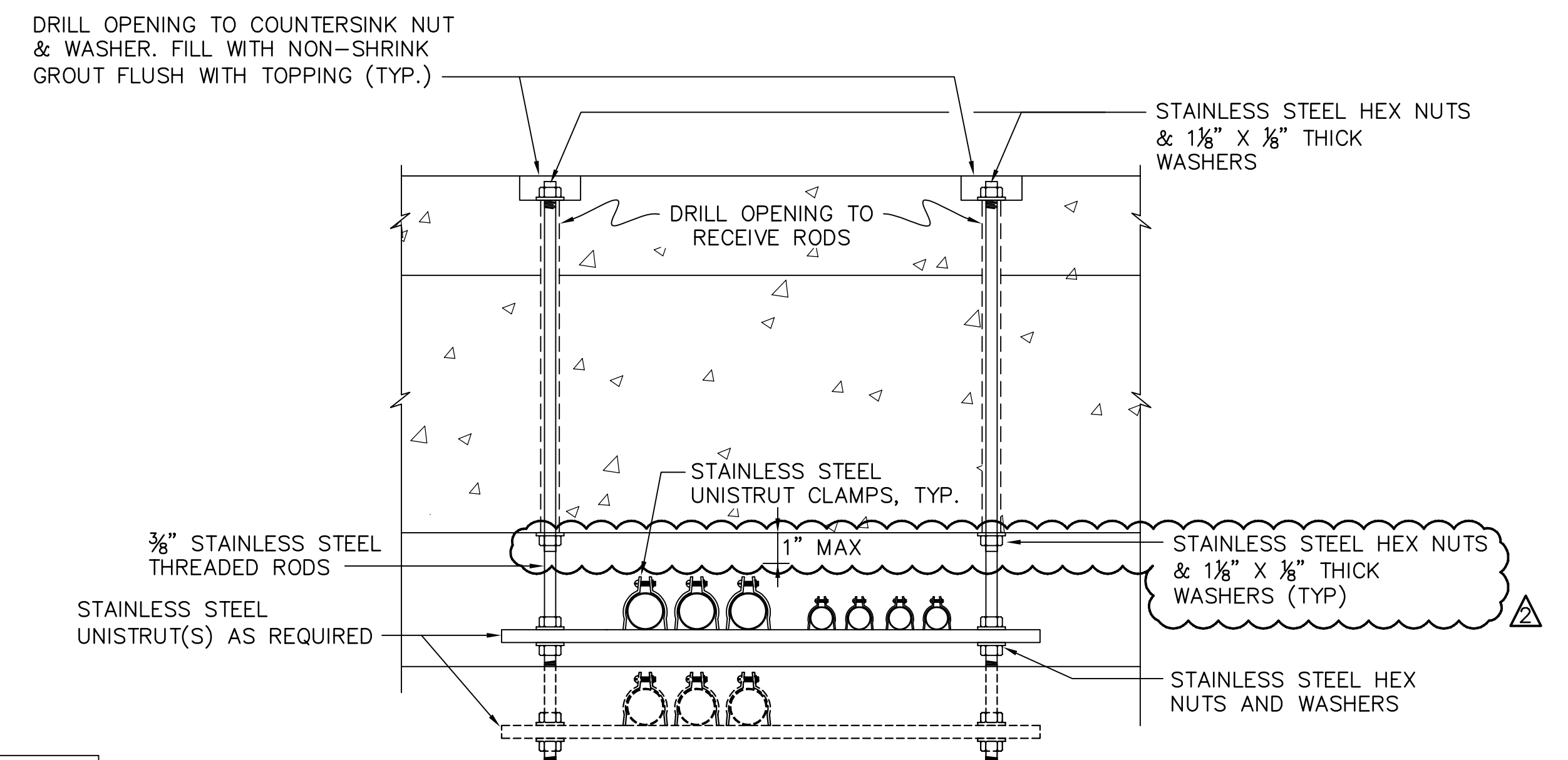
FEEDER CONDUIT SUPPORT SECTION (B)
NOT TO SCALE
E12, E12



DOCKSIDE POWER PEDESTAL DETAIL (2)
NOT TO SCALE
E1, E12
W6

TYPE "A" DUAL METER UNIT SHOWN
POWER PEDESTAL BY MARINA POWER CO. MIAMI FL. (305-470-0037)
POWER PEDESTALS AT DOCK NO. 5 FURNISHED AND INSTALLED BY THE CONTRACTOR.

SCHEDULE OF DOCKSIDE POWER PEDESTAL						
SYMBOL	PEDESTAL	RECEPTACLE	TELE	CATV	WATER	MARINA POWER CO. PEDESTAL CATALOG NUMBER
(A)	DUAL METER UNIT	2-30/1 2-50/2	2	2	2	PCMFS 1216-DB-DB-L-2T-2W-RLF-2M2(FPC)-TP
(B)	SINGLE METER UNIT	1-30/1 1-50/2	1	1	1	PCMFS 1216-DB-BLANK-L-1T-1TV-1W-RLF-1M2(FPC)-TP
(C)	SINGLE METER UNIT	1-20/1 1-30/1 1-50/2	1	1	1	PCMFS 1216-DBA(GFI)-BLANK-L-1T-1TV-1W-RLF-1M2(FPC)-TP



TYPICAL TRAPEZE HANGER DETAIL (1)
NOT TO SCALE
E2, E6, E7
E12, E12

- NOTES:**
- UTILIZE COMMON TRAPEZE FOR POWER, TELE AND CATV CONDUITS WHEREVER POSSIBLE. SEE PLAN FOR QUANTITY OF CONDUITS.
 - ALL HANGER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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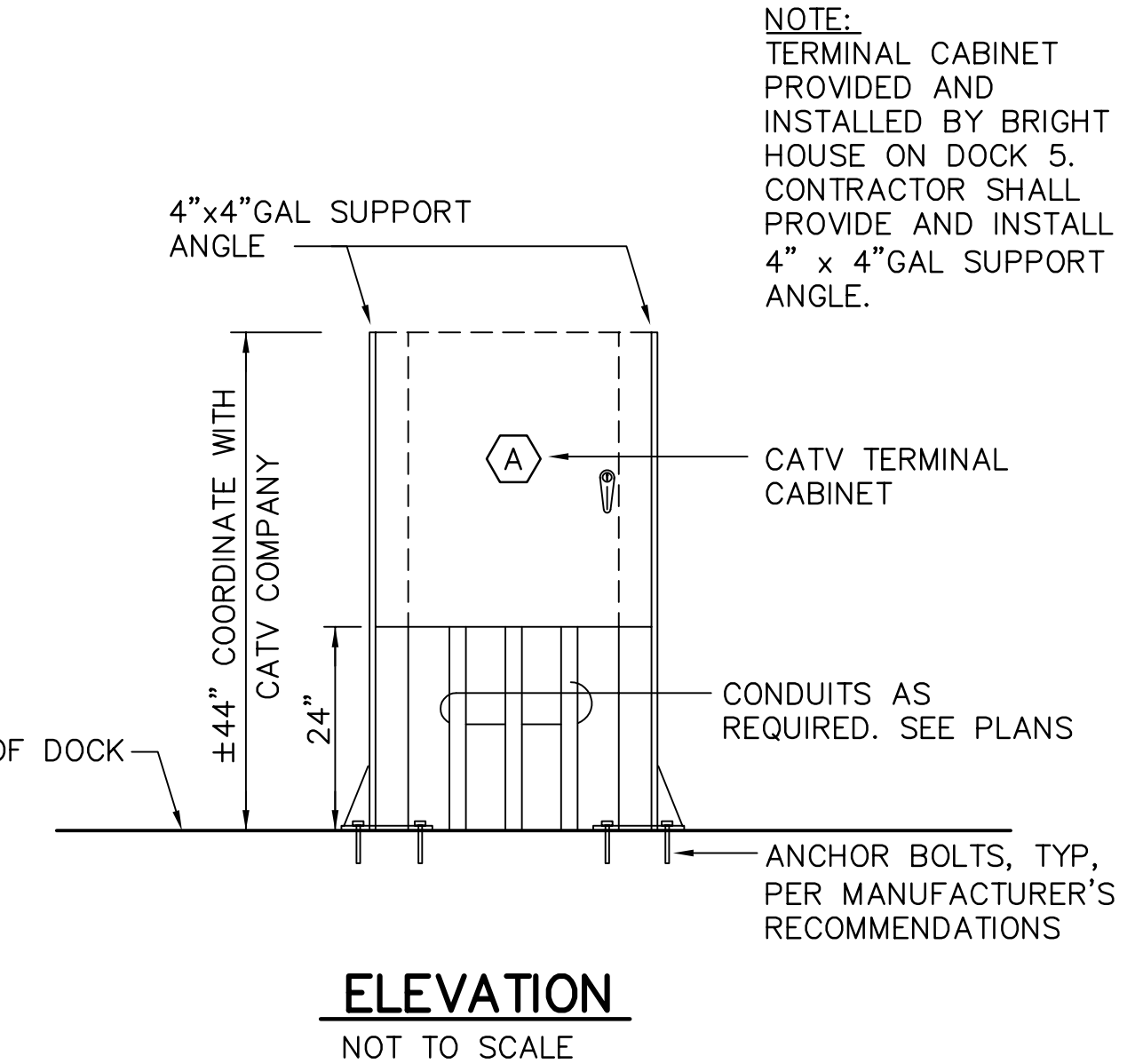
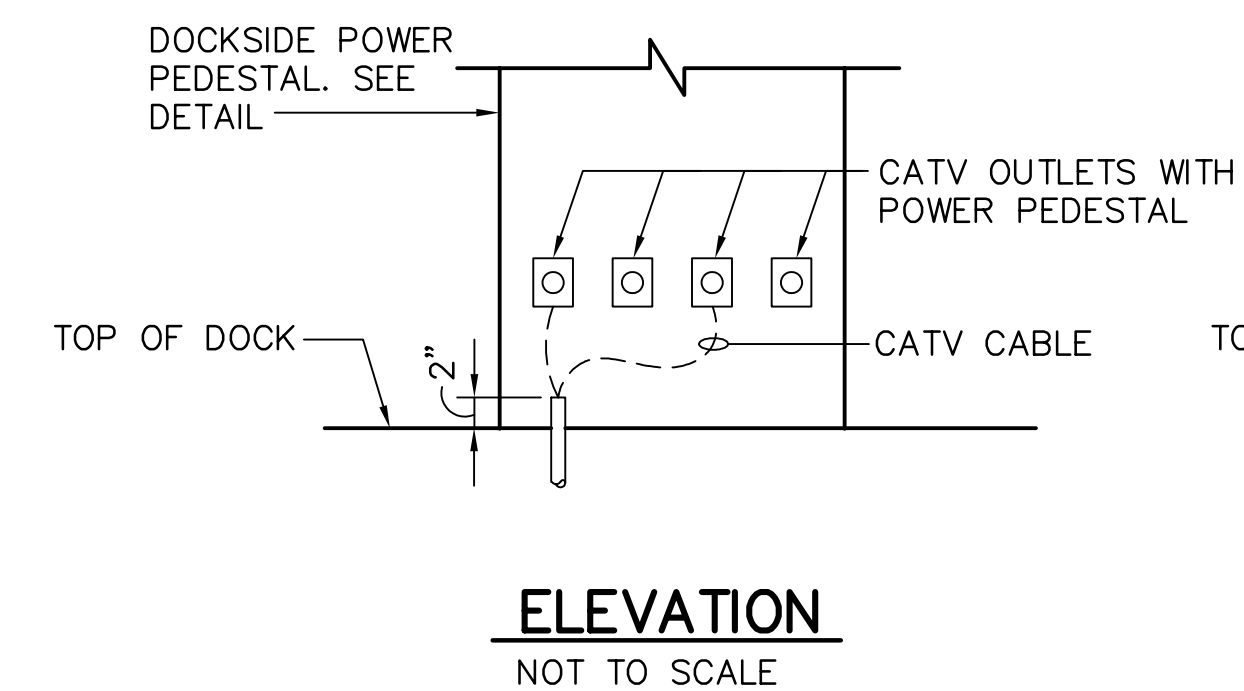
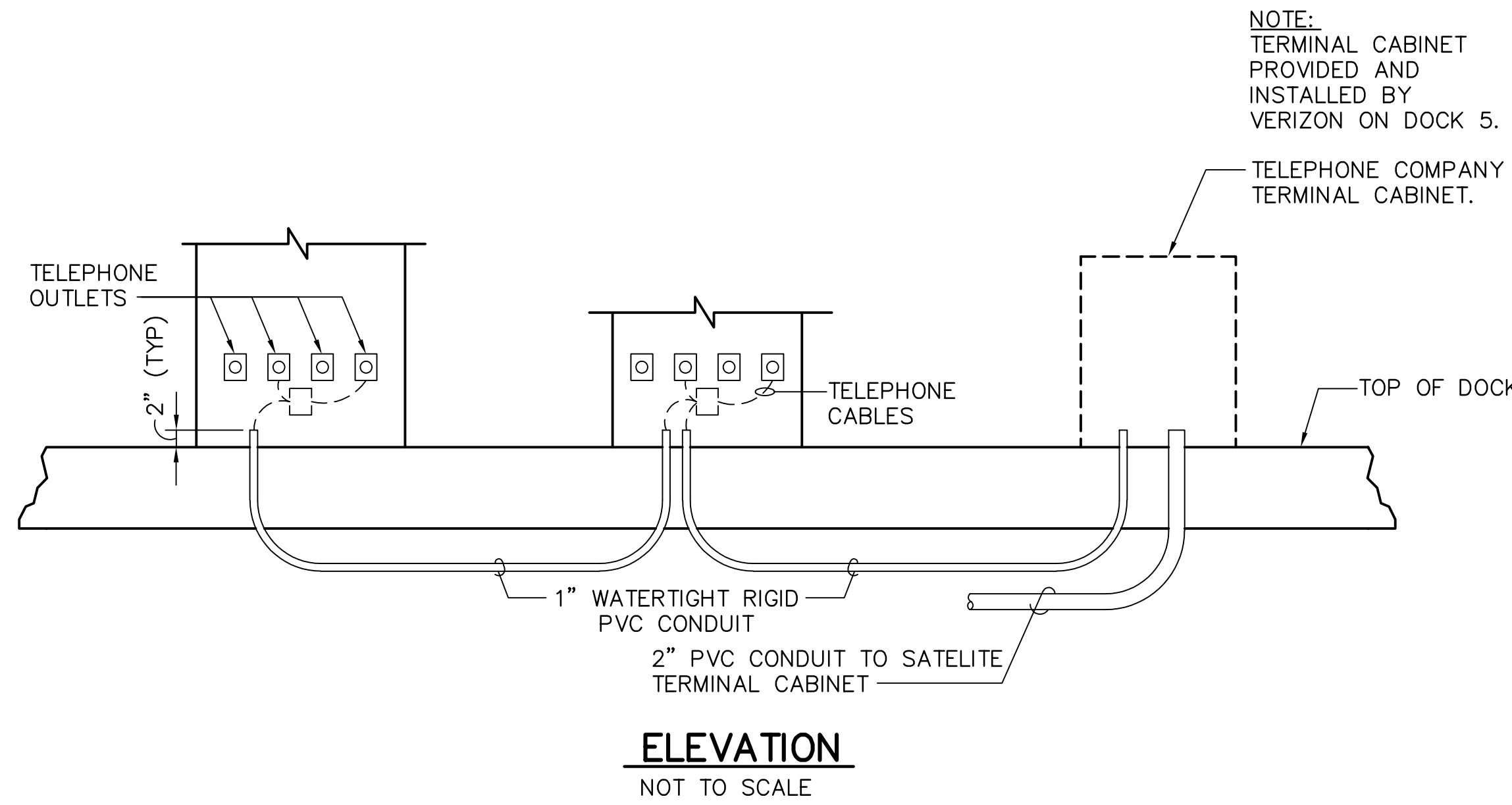
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LOCATION:	EL.			
RECORD DRAWINGS			TV	07.27.07

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813-258-8818
LIC: EB-0004877

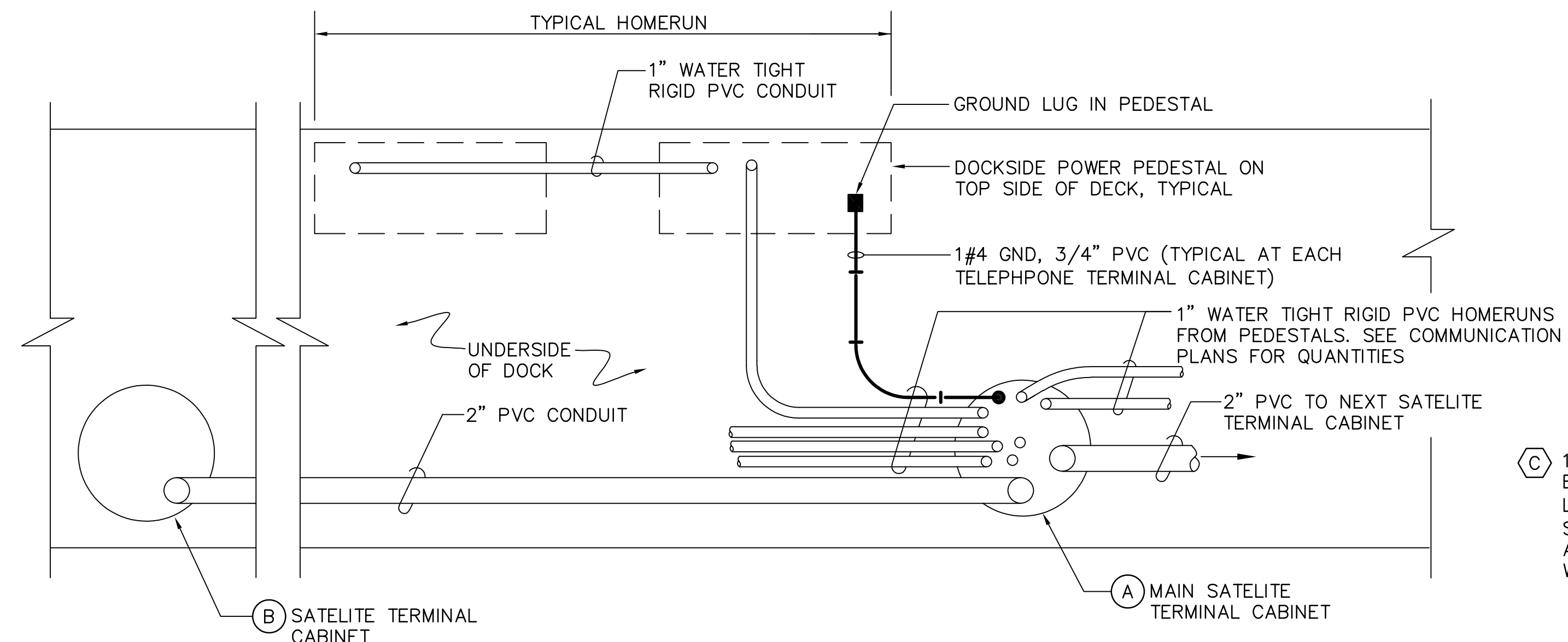
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
ELECTRICAL & COMMUNICATION DETAILS
SHEET 1 OF 2

DATE: 06-24-05
SCALE: NONE
DRAWING No.: 10175-78
SHEET No.: E12

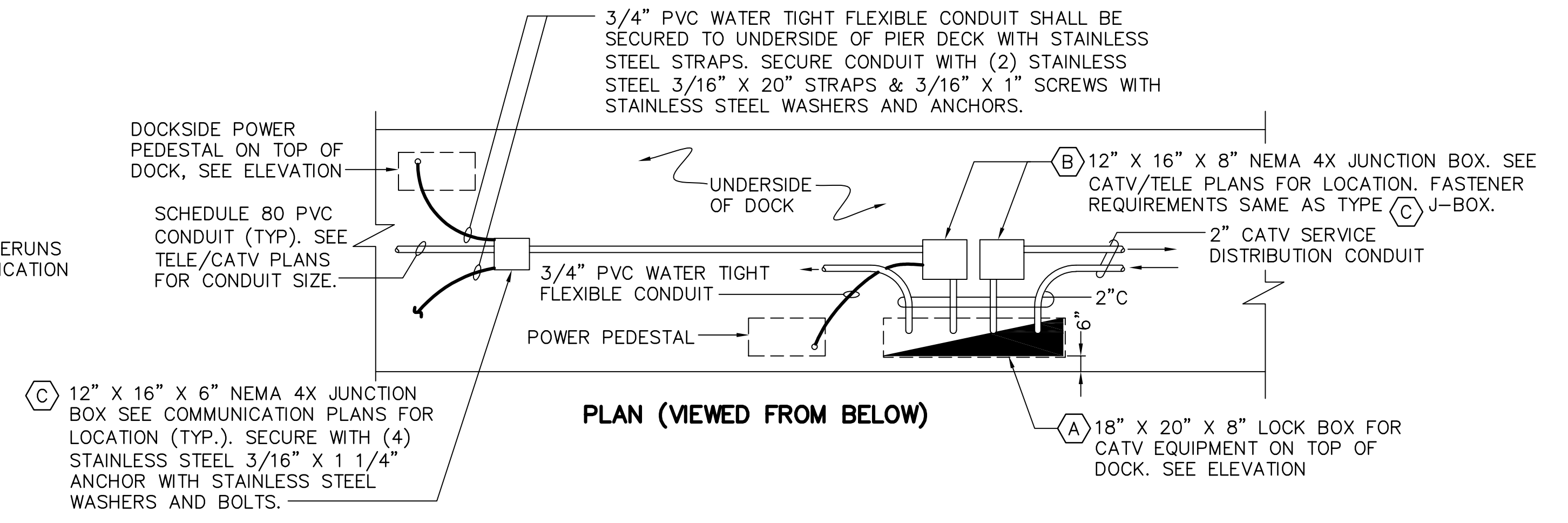


NOTE:
TERMINAL CABINET PROVIDED AND INSTALLED BY BRIGHT HOUSE ON DOCK 5. CONTRACTOR SHALL PROVIDE AND INSTALL 4" x 4" GAL SUPPORT ANGLE.



- NOTES:
- 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.
 - PROVIDE 2-1 1/4" SPARE SLEEVES THRU SLAB AT EACH PEDESTAL AND SEAL OFF WITH SILICONE SEALANT.
 - SEE DRAWING NO. E9 "DOCK 5" FOR FEEDERS TO LAND TERMINAL BACKBOARDS.
 - ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL TELEPHONE TO PEDESTAL SERVICE DETAIL 1
NOT TO SCALE E10E13



- NOTES FOR TELEPHONE AND CATV INSTALLATIONS:
- COORDINATE CONDUIT SWEEP SIZE REQUIREMENTS WITH TELEPHONE AND CATV COMPANY BEFORE INSTALLATION.
 - PROVIDE TEMPORARY CAPS ON ALL OPEN END OF CONDUITS TO KEEP FREE OF WATER AND DEBRIS.
 - GROUT ALL ANULAR SPACES AND CONDUIT PENETRATION THRU SLAB.
 - ALL STAINLESS STEEL FASTENER COMPONENTS SHALL BE TYPE 316 STAINLESS STEEL.

TYPICAL CATV TO PEDESTAL SERVICE DETAIL 2
NOT TO SCALE E10E13

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DATE: 02/04
DATE: 02/04
PAGE THRU
EL.

REVISIONS	BY	DATE

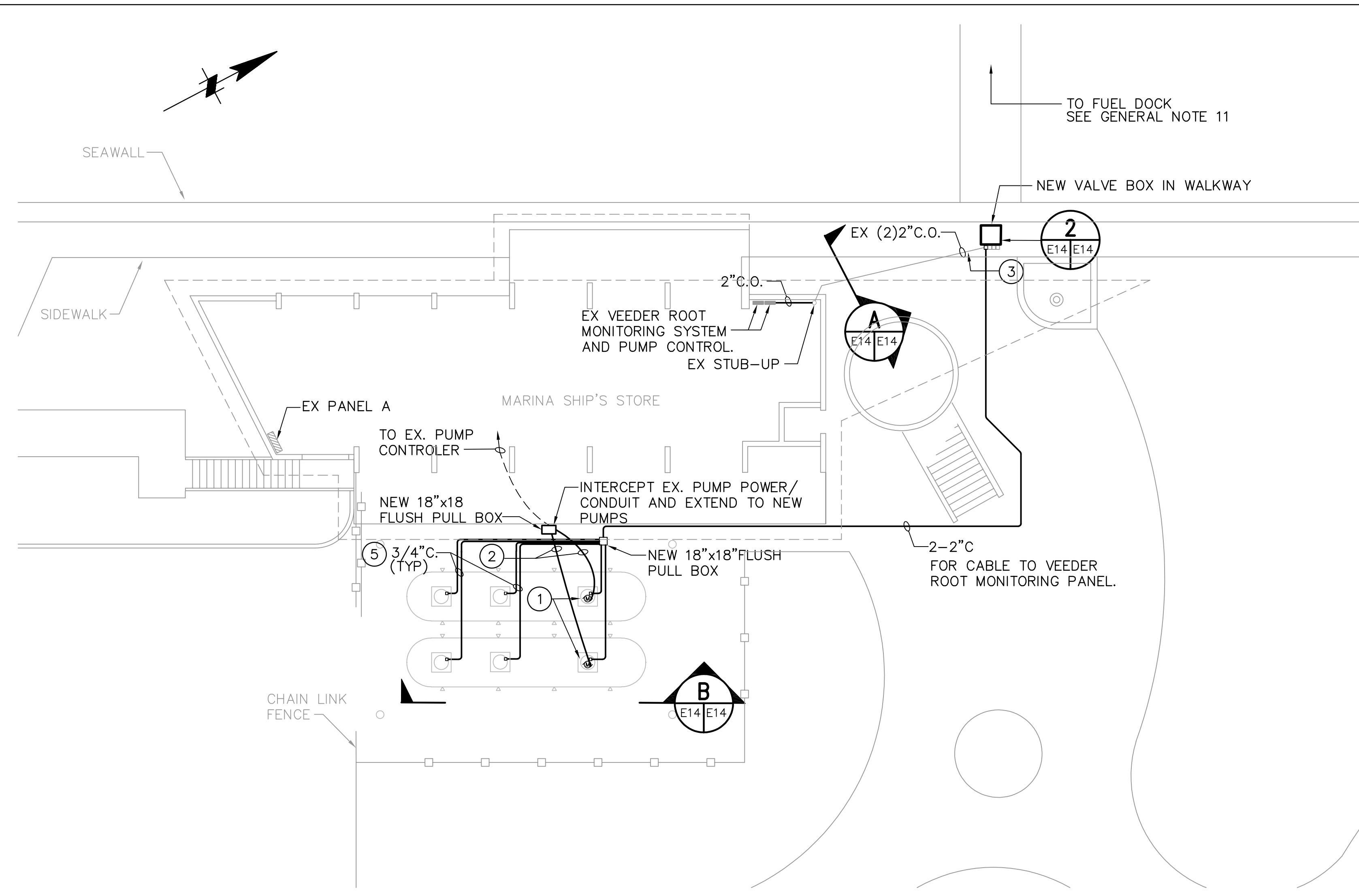
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CITY OF ST. PETERSBURG

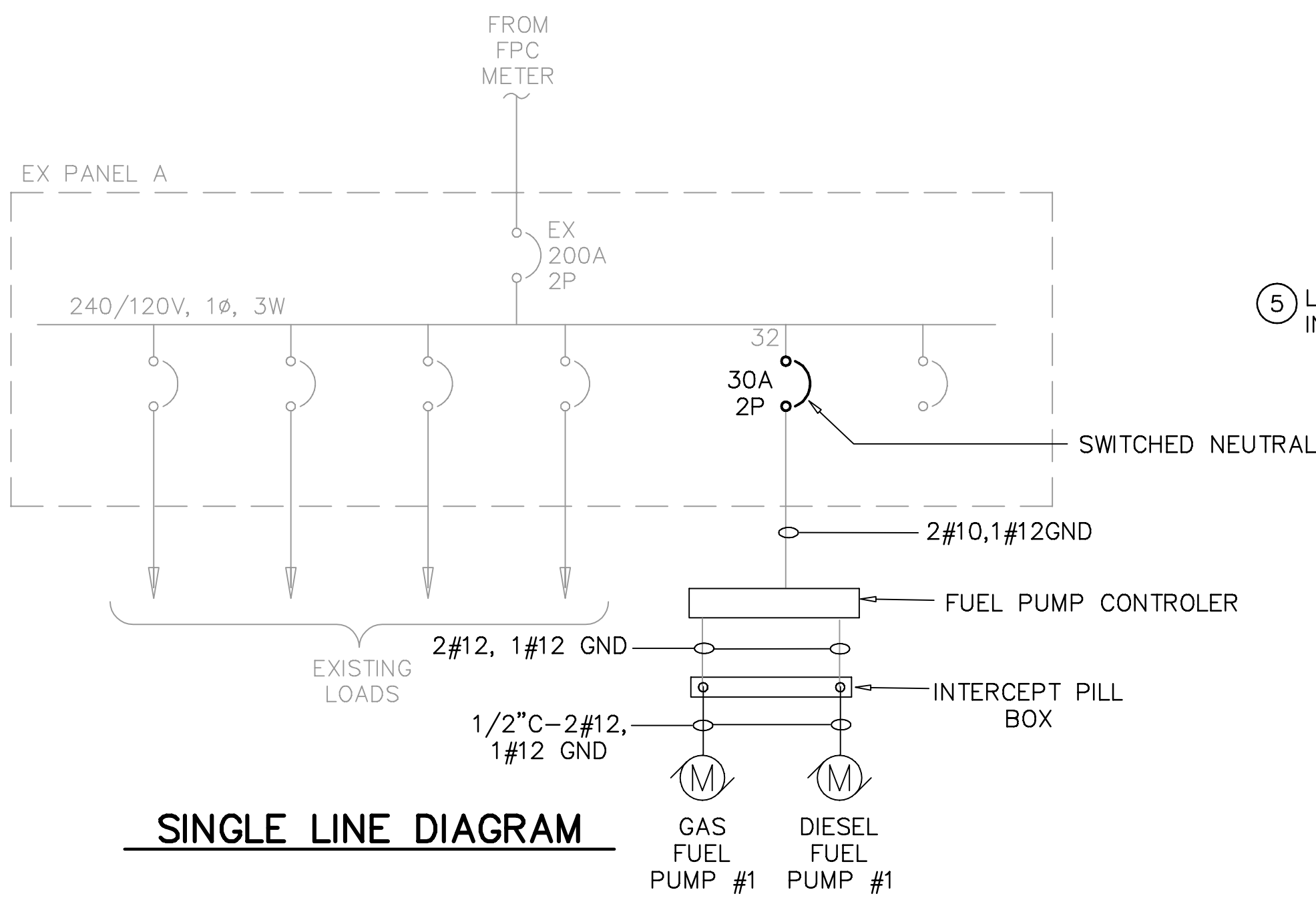
APPROVED BY:

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STRUCTURAL REHABILITATION PROJECT NO. 01074-117
ELECTRICAL & COMMUNICATION DETAILS
SHEET 2 OF 2

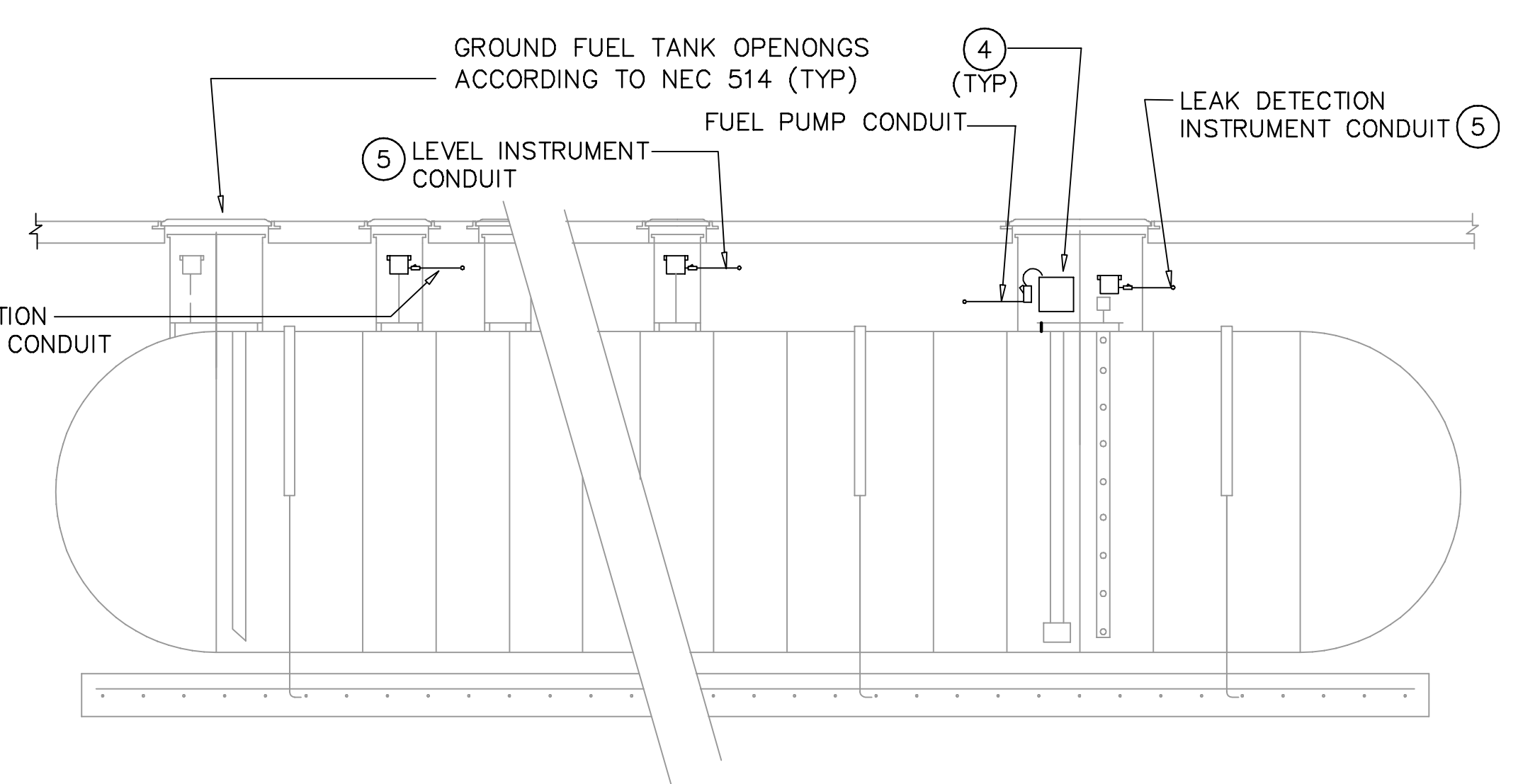
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SCALE: AS SHOWN
DRAWING No.: 10175-79
SHEET No.: E13



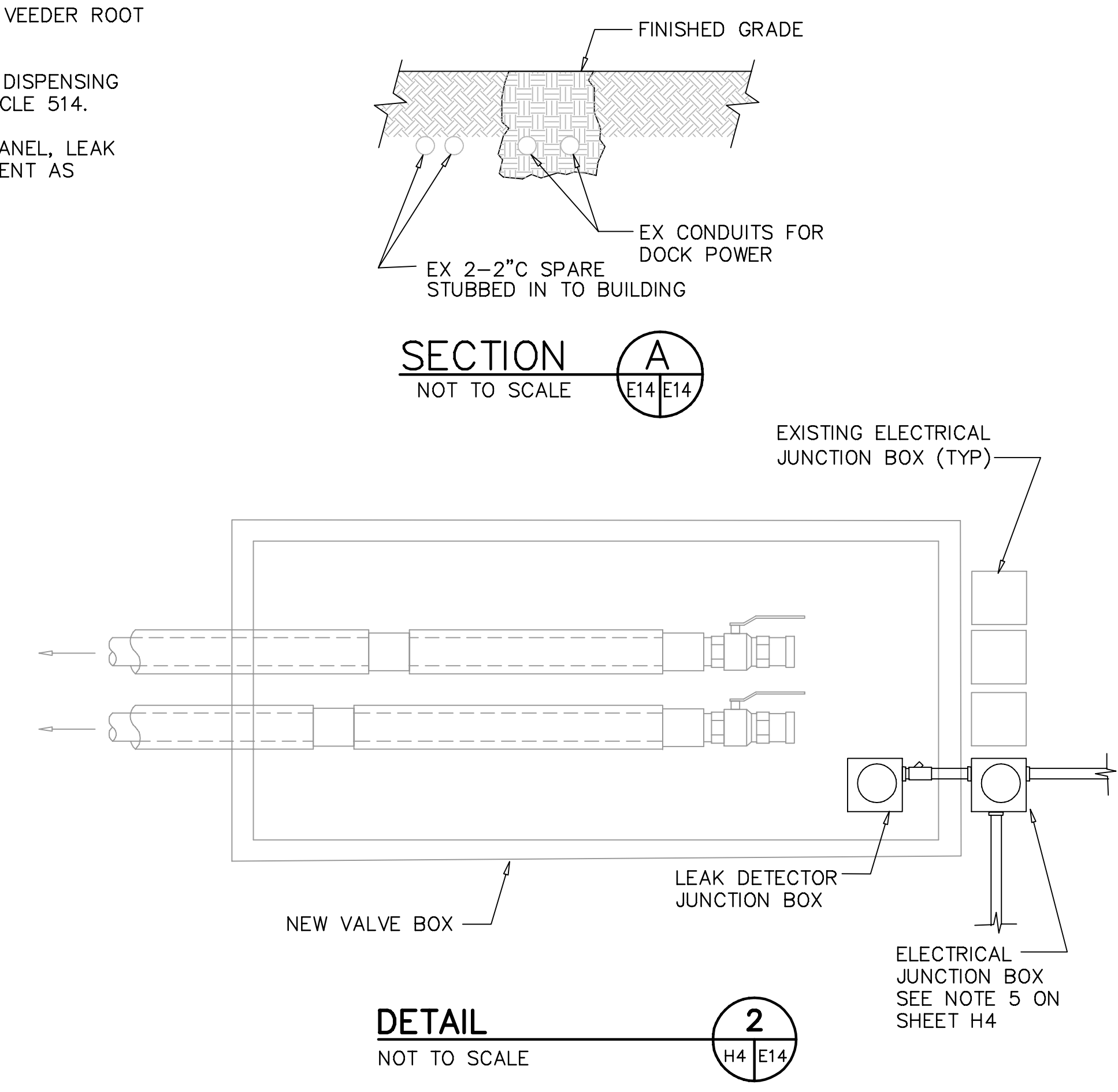
ELECTRICAL PLAN 1
1" = 20'



SINGLE LINE DIAGRAM



TYPICAL TANK SECTION B
NTS



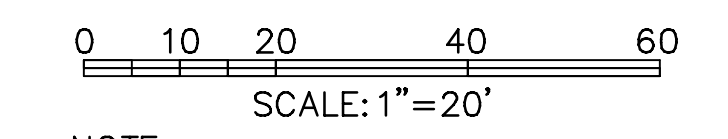
SECTION A
NOT TO SCALE

DETAIL 2
NOT TO SCALE

- SYMBOL LIST:**
- NEW UNDERGROUND CONDUIT
 - EXISTING CONDUIT
 - ▨ EXISTING POWER PANEL
 - ▩ EXISTING MONITORING PANEL
 - ⊠ EYS FITTING
 - ⊙ 1
E1 E2
DETAIL NUMBER
SHEET SHOWN ON SHEET TAKEN FROM
 - EX EXISTING
 - GND GROUND
 - C CONDUIT
 - C.O. CONDUIT ONLY

- NOTES**
- 1 DICONNECT EXISTING FEEDER TO PUMPS THAT WILL BE REPLACED AND REMOVE CONDUIT FROM EXCAVATION AREA.
 - 2 CONNECT NEW FEEDERS AND CONDUIT TO NEW FUEL PUMP.
 - 3 EXISTING 2" SPARE CONDUIT TO BE USED FOR VEEDER ROOT CONTROL CABLE
 - 4 ALL ELECTRICAL CONNECTIONS IN MOTOR FUEL DISPENSING FACILITY AREAS SHALL COMPLY WITH NEC ARTICLE 514.
 - 5 PROVIDE CONTROL CABLE FOR VEEDER ROOT PANEL, LEAK DETECTOR AND TANK PRODUCT LEVEL INSTRUMENT AS SPECIFIED BY MANUFACTURER.

- GENERAL NOTES:**
1. ALL EXISTING CONDUITS NOT REUSED IN REMODELED 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 REUSED SHALL BE REINSTALLED AS REQUIRED.
 3. ALL EXISTING EQUIPMENT TO BE REUSED (WHERE APPLICABLE) SHALL BE CLEANED AND REPAIRED, AS REQUIRED.
 4. THESE DRAWINGS SHOW APPROXIMATE LOCATION OF EXISTING EQUIPMENT AND DO NOT NECESSARILY INDICATE THE COMPLETE EXISTING INSTALLATION. EXACT LOCATION SHALL BE VERIFIED IN FIELD.
 5. THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK.
 6. ALL POWER INTERRUPTIONS 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 CONDITIONS, EXISTING FACILITIES AND ALL BUILDING 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 AUTHORITIES HAVING JURISDICTION.
 10. ALL ELECTRICAL ENCLOSURES AND CONNECTIONS SHALL COMPLY WITH NEC ARTICLE 514 AND SHALL BE RATED FOR THE CLASSIFIED (HAZARDOUS) LOCATION WHERE THEY ARE INSTALLED. PROVIDE EYS FITTINGS WHERE REQUIRED.
 11. SEE SHEET E6 FOR ADDITIONAL REQUIREMENTS RELATED TO DOCKSIDE FUEL DISPENSERS.



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")

Fri, 17 Aug 2007 1:03pm P:\5607-03\cad\Submittals\2007-06-14 As Built\4817-14_E14.dwg tvaldez

THESE RECORD DOCUMENTS ARE BASED ON THE MARKED-UP RECORD DRAWINGS, ADDENDA, CHANGE ORDERS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE RECORD DOCUMENTS MAY SHOW SIGNIFICANT CHANGES DURING CONSTRUCTION. BECAUSE THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH THE CONSULTANT SHALL ASSUME WILL BE RELIABLE, CONSULTANT DOES NOT WARRANT THEIR ACCURACY. IN ADDITION, CONSULTANT IS NOT LIABLE OR RESPONSIBLE FOR ANY CHANGES TO CONSULTANT'S DESIGN THAT WERE NOT APPROVED BY CONSULTANT IN WRITING.

TYLER SPARKS, P.E.
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0055296

RECORD DRAWING
ISSUED 08 AUGUST 2007

DESIGNED BY:	DM	DATE:	
DRAWN BY:	PB	DATE:	
CHECKED BY:	TS	DATE:	
FIELD BOOK No.	PAGE	THRU	
BM No.	EL.		
LOCATION:			

MOFFATT & NICHOL
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FUEL TANKS
ELECTRICAL PLAN & DETAILS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-80
SHEET No.: **E14**

GENERAL FUEL SYSTEM AND MECHANICAL NOTES:

- THE SCOPE OF WORK OF THE FUEL SYSTEM MECHANICAL DRAWINGS IS TO REMOVE AND REPLACE THE ENTIRE EXISTING FUEL SYSTEM CONSISTING OF GASOLINE AND DIESEL DISPENSERS (INCLUDING SUMP PANS), SINGLE WALL AND DOUBLE WALL PIPING BETWEEN DISPENSERS AND TANKS (ONSHORE AND DOCK), ONSHORE VALVE BOX AND VALVES, AND GASOLINE AND DIESEL SINGLE-WALLED STEEL TANKS. THE FUEL SYSTEM SERVICES ARE DIESEL AND UNLEADED GASOLINE. EACH TANK AND ITS RELATED APPURTENANCES SHALL BE REPLACED BY A DOUBLE WALLED TANK. ALL PIPING WILL BE REPLACED WITH DOUBLE-WALLED PIPING. EXISTING FUEL DISPENSERS SHALL BE REPLACED WITH NEW DISPENSERS (INCLUDING RELATED SUMPS). EXISTING ONSHORE MANUAL FUEL BLOCK VALVES SHALL BE REPLACED WITH NEW FUEL BLOCK VALVES WITH RELATED APPROVED CONTAINMENT SUMP. A PORTION OF EACH OF TWO EXISTING TANK VENT LINES SHALL ALSO BE REMOVED AND REPLACED AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL GASOLINE AND DIESEL FUEL SYSTEM INFORMATION.
- SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE ENGINEER ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF CONSTRUCTION.
- REFER TO DRAWING X5 FOR GENERAL SITE PLAN.
- VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS FOLLOWING THE EXPIRATION OF SPECIFIED CONTRACTOR'S GUARANTEE AND PRODUCT WARRANTIES. CONTRACTOR SHALL PROVIDE OWNER WITH OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER AND/OR "SUNSHINE" 1-800-432-4770 SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND PIPING AND EQUIPMENT LEADING FROM THE POINT OF CONNECTION AT THE ONSHORE BULKHEAD VALVE BOX. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE PLANS (DRAWINGS) ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.
- LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS, SUCH AS LOCAL SURFACE DRAINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE AND BULKHEAD CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THEREFORE, THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR. CONTRACTOR SHALL NOT DAMAGE UNDERLYING FOUNDATIONS, STRUCTURES AND OTHER UTILITIES DURING EXCAVATION AND REMOVAL OF TANKS, FUEL LINES AND RELATED APPURTENANCES. SHOULD UNFAVORABLE SUBSURFACE CONDITIONS BE ENCOUNTERED, THE CONTRACTOR SHALL TAKE APPROPRIATE SOIL REMEDIATION MEASURES, ACCEPTABLE TO ALL REGULATORY AUTHORITIES, PRIOR TO COMPLETING THE WORK. THIS POTENTIAL ADDITIONAL WORK SHALL INITIALLY BE AUTHORIZED BY THE CITY AND PAID UTILIZING THE CONTRACT ALLOWANCE IN THE BID PROPOSAL.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITY OWNERS AND ALL REGULATORY AUTHORITIES THAT REQUIRE WORK PROGRESS (INTERIM) AND FINAL INSPECTIONS OF THE WORK, IN ACCORDANCE WITH ALL PERMIT CONDITIONS. ACCORDINGLY, THE CONTRACTOR SHALL DETERMINE AND INCORPORATE IN HIS BID PRICE THE EXTENT OF POSSIBLE DELAYS THAT POTENTIALLY TARDY INSPECTIONS BY REGULATORY AGENCIES AND UTILITY RELOCATIONS AND/OR ADJUSTMENTS MAY HAVE UPON THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT SHALL REMAIN IN PLACE. IT IS SPECIFIED AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY POTENTIALLY TARDY INSPECTIONS AND NECESSARY UTILITY ADJUSTMENTS.
- THE CONTRACTOR SHALL NOTIFY ALL REGULATORY AUTHORITIES IN ACCORDANCE WITH RESPECTIVE PERMIT CONDITIONS AND ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GASOLINE, DIESEL, OR POWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS PER PROJECT REQUIREMENTS. PRIOR TO SELECTIVE DEMOLITION WORK, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES, AND COMPENSATION SHALL BE INCLUDED IN THE CONTRACT PRICES FOR OTHER ITEMS.
- CONSTRUCTION EQUIPMENT AND MATERIAL MAY BE STORED ONLY IN AREAS DESIGNATED FOR CONTRACTOR'S USE. THIS AREA IS SHOWN ON SHEET X5.

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS FOR APPROVAL BY THE ENGINEER. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE DAILY AND LEGALLY DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL RETRIEVE ANY DEMOLISHED PIPING DROPPED BELOW WATER.
- THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH COAST GUARD REGULATIONS TO PROTECT AND MAINTAIN ALL BOAT TRAFFIC. CONTRACTOR SHALL NOT INTERFERE WITH NORMAL BOAT TRAFFIC, IF EQUIPMENT ACCESS, MOBILIZATION AND DEMOBILIZATION IS BY SEA.
- ALL REMOVED MATERIALS AND EQUIPMENT FROM THE WORK, INCLUDING EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
- ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER, OR THROUGH TESTING, SHALL BE REMOVED, LEGALLY DISPOSED, AND REPLACED WITH SUITABLE MATERIAL, WITH CORRESPONDING CLOSURE REPORT(S), AND ALL ACCEPTABLE TO THE ENGINEER AND ALL REGULATORY AUTHORITIES.
- CLAMPS AND HARDWARE SHALL BE TYPE 316L STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR REVIEW AND APPROVAL.
- DIELECTRIC COUPLINGS SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS.
- MAXIMUM DISTANCE BETWEEN PIPE SUPPORTS SHALL NOT EXCEED THE APPROVED PIPE MANUFACTURER'S RECOMMENDED SPAN LENGTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR AND IMPLEMENT TEMPORARY FUELING SERVICES DURING CONSTRUCTION. TEMPORARY FUEL FACILITIES SHALL BE SELF-CONTAINED WITH GASOLINE AND DIESEL FUEL TANK CAPACITIES AND FLOW RATES MATCHING EXISTING INFRASTRUCTURE. LOCATION, METHOD, OPERATIONS AND DURATION OF TEMPORARY FACILITIES SHALL BE APPROVED BY THE CITY, AND ALL OTHER RELATED REGULATORY AGENCIES.
- VERIFY ALL EXISTING LINE SIZES. WHERE REQUIRED, SIZES OF NEW LINES SHALL MATCH EXISTING, AND/OR BE MODIFIED TO MATCH NEW EQUIPMENT CRITERIA.
- EQUIPMENT INDICATED ON THE DRAWINGS IS REPRESENTATIVE OF GENERAL EXISTING LOCATION. THE CONTRACTOR SHALL VERIFY LOCATION, ORIENTATION AND DEPTH OF EQUIPMENT.
- CONTRACTOR SHALL INVESTIGATE SOIL PROPERTIES TO DETERMINE REQUIREMENTS OF EXCAVATION AND SHORING, IF REQUIRED.
- EXCAVATION AND/OR SHORING AND DEWATERING SHALL BE IN COMPLIANCE WITH APPLICABLE STATE, LOCAL, AND OSHA REQUIREMENTS.
- PROTECT OPENINGS OF LINES, SUCH AS VENT LINES AND FUEL VALVE ENDS DURING EXCAVATION AND CONSTRUCTION.
- CONTRACTOR SHALL INSPECT TANK OVERFILL, LEVEL INSTRUMENTATION AND SIMILAR EQUIPMENT AND SHALL VERIFY SUITABILITY FOR REUSE. CONTRACTOR SHALL INSPECT EXISTING EQUIPMENT FOR ANY DAMAGE, EXCESSIVE WEAR, IRREGULARITIES AND SIMILAR DETRIMENTS AS WELL AS REASONABLE ADAPTABILITY TO THE NEW TANKS. EQUIPMENT VERIFIED FOR REUSE MAY BE REINSTALLED UPON CITY APPROVAL.
- CONTRACTOR SHALL VERIFY REUSE OF EXISTING TRANSACTION/PUMP CONTROL EQUIPMENT (TMS-800F PLUS).
- CONTRACTOR SHALL PROVIDE NEW LEAK DETECTION AND TANK INVENTORY MEASUREMENT CONSOLE, VEEDER-ROOT TLS-350, OR APPROVED EQUAL.

LEGEND

SYMBOLS	ABBREV	DESCRIPTION
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
	CITY	CITY OF ST PETERSBURG
	CONN	CONNECTION
	DEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
— DF —	DF	DIESEL FUEL
∅	DIA	DIAMETER
	DWG	DRAWING
	ELL	ELBOW
	EXIST	EXISTING
		FUEL DISPENSER, DIESEL/GAS
	GAL	GALLON
	GALV	GALVANIZED
— GAS —	GAS	GASOLINE
	JB	JUNCTION BOX
	MAX	MAXIMUM
	MIN	MINIMUM
	NPT	NATIONAL PIPE THREAD
	NTS	NOT TO SCALE
	POC	POINT OF CONNECTION
	PVC	POLYVINYL CHLORIDE PIPE
	RED	REDUCER
	SS	STAINLESS STEEL
	TBR	TO BE REMOVED
	TYP	TYPICAL
	UG	UNDERGROUND
	UNO	UNLESS NOTED OTHERWISE
— V —	V	VENT
	W/	WITH

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NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")

DESIGNED BY:	DATE:	REVISIONS	BY	DATE
JH				
DM				
JH				
JH				

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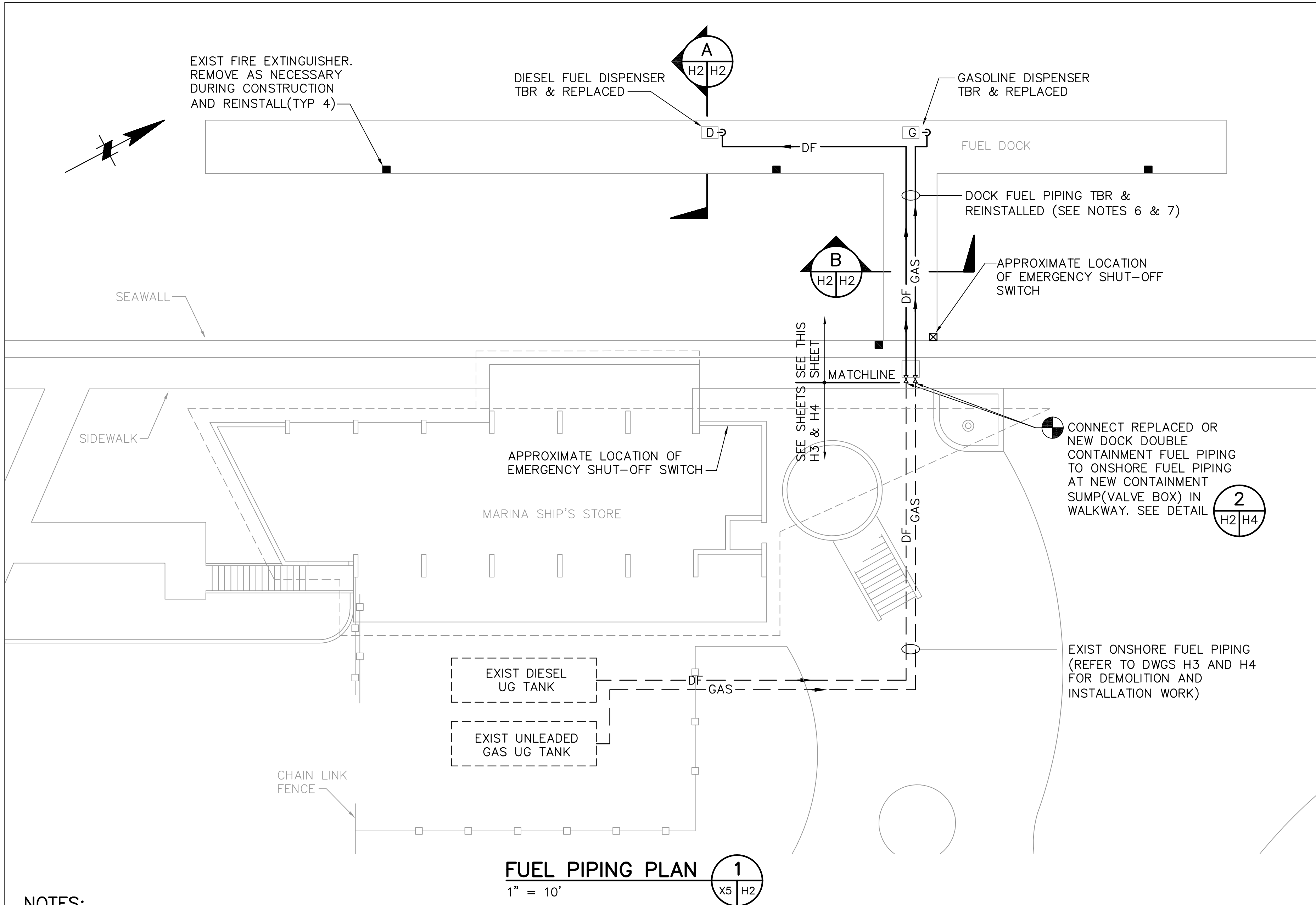
ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FUEL SYSTEM
MECHANICAL NOTES & LEGEND

DATE:	06-24-05
SCALE:	AS SHOWN
DRAWING No.:	10175-81
SHEET No.:	H1

JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007



FUEL PIPING PLAN 1
1" = 10'

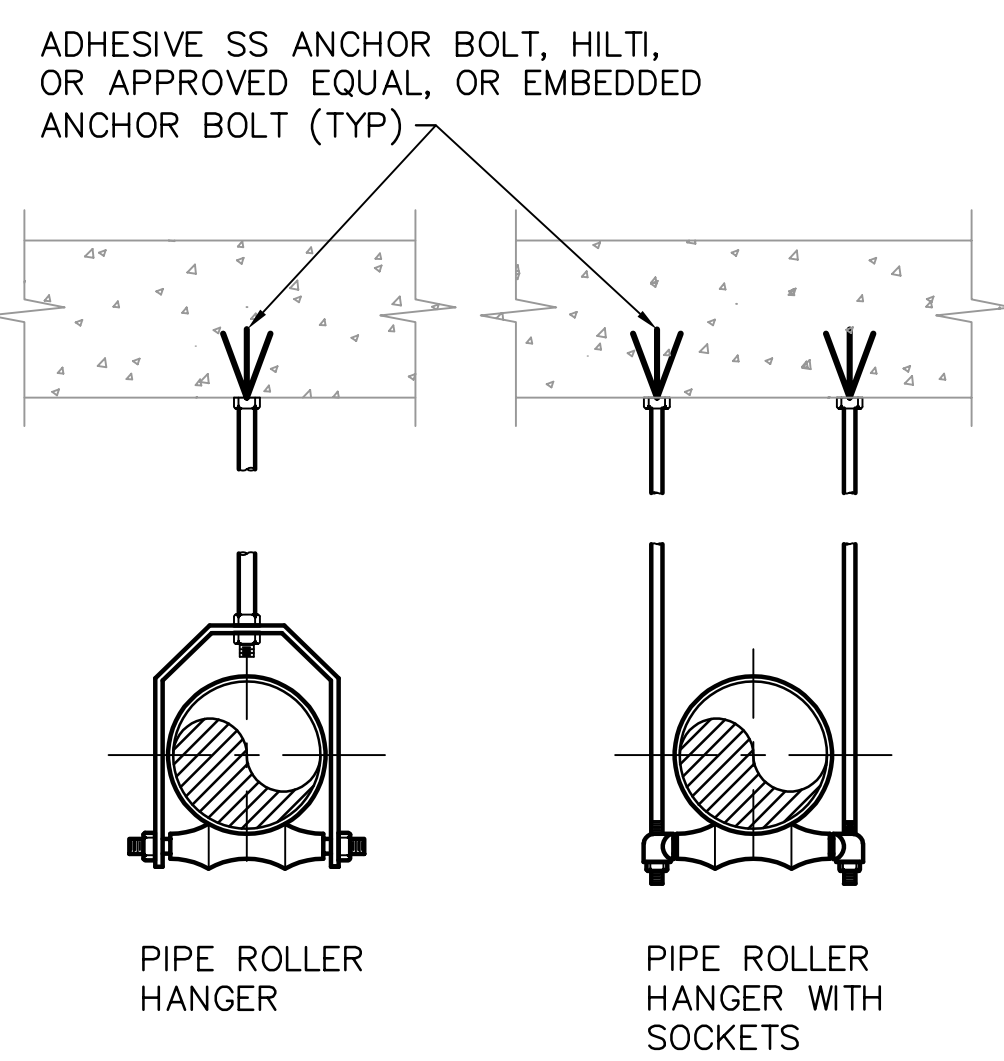
NOTES:

- PIPE REPLACEMENT SHALL BE MADE FROM BELOW THE STRUCTURALLY REHABILITATED DECK. ANY DECK CUTTING OR REMOVAL OF PANELS SHALL BE REPLACED IN ACCORDANCE WITH THE PROJECT AND CITY REQUIREMENTS. PIPE, CONDUIT, FIXTURES AND EQUIPMENT SHALL REMAIN IN PLACE TO THE FULLEST EXTENT REASONABLY POSSIBLE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE PIPE REPLACEMENT WORK WITH OTHER WORK AT THE DOCK. TEMPORARY SUPPORTS MAY BE USED DURING CONSTRUCTION.
- THE FUEL LINE'S ENTRY BOOTS TO THE NEW DISPENSER CONTAINMENT SUMPS SHALL BE COMPATIBLE WITH THE NEW DISPENSER SUMP AND SELECTED DOUBLE WALL FUEL PIPE.
- ALL DISTURBED SURFACES ONSHORE AND ON THE DOCK SHALL BE FINISHED TO MATCH THE SURROUNDING SURFACES OR TO ORIGINAL IF THE ENTIRE SURFACE REQUIRED ACCESS DURING CONSTRUCTION.
- THE FUEL LINES SHALL PENETRATE THE BULKHEAD WALL AT THE SAME LOCATION AS THE EXISTING LINES. ENLARGE HOLE AS NEEDED AND USE SAME BULKHEAD SEAL METHOD AS EXISTING OR CURRENT UPGRADE.
- THE NEW FUEL LINES SHALL READILY ENTER THE SIDE OF THE NEW DISPENSER CONTAINMENT SUMPS. THE PIPE OPENINGS IN THE NEW DISPENSER CONTAINMENT SUMPS SHALL BE MANUFACTURED TO PROPERLY MATCH AND MATE WITH RESPECTIVE FUEL PIPING WITHOUT CAUSE FOR FIELD ALTERATIONS TO THE NEW CONTAINMENT SUMPS. THE SUMPS SHALL BE TESTED FOR LEAKAGE PER MANUFACTURER'S RECOMMENDATION.
- THE CONTRACTOR SHALL DISCONNECT (PER NOTE 7) THE EXISTING FUEL DOCK PIPING AND REINSTALL AFTER STRUCTURAL REPAIRS TO THE DOCK ARE COMPLETE. EXISTING PIPING SHALL BE INSPECTED FOR DEFICIENCIES. IF PIPING IS DETERMINED UNUSABLE BY THE ENGINEER, THE CONTRACTOR SHALL REPLACE IT WITH NEW PIPING PER PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL INSPECT FUEL PIPING NOTED FOR REMOVAL AND SHALL VERIFY ITS REUSE, IF REUSE IS AN ECONOMIC ALTERNATIVE TO NEW FUEL PIPING. REUSE SHALL BE APPROVED BY ENGINEER. NEW PIPE SECTIONS MAY BE REQUIRED AT DISPENSER AND TRANSITION SUMP CONNECTIONS TO ACCOMMODATE NEW DISPENSERS AND SUMP LOCATION AND DESIGN. EXISTING LINES SHALL BE LEGALLY DRAINED AND PURGED OF PRODUCT AND DISASSEMBLED PER MANUFACTURER'S RECOMMENDATIONS. DURING STORAGE, PIPE ENDS SHALL BE CAPPED AND PIPE SHALL BE PROTECTED FROM SUNLIGHT AND DELTERIOUS CONSTRUCTION WORK.
- CONTRACTOR SHALL VERIFY FUEL LINES SIZES TO ENSURE ADEQUATE DELIVERY OF REQUIRED FLOWRATES WITH SELECTED DISPENSERS (AS SPECIFIED).

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RECORD DRAWING
ISSUED 09 AUGUST 2007

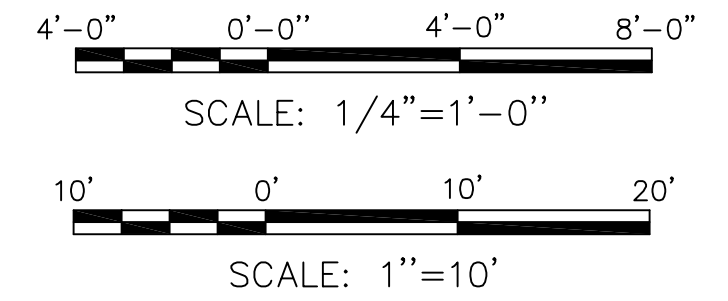
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DRAWN BY: DM	DATE:			
CHECKED BY: JH	DATE:			
FIELD BOOK No.	PAGE	THRU		
BM No.	EL.			
LOCATION:				



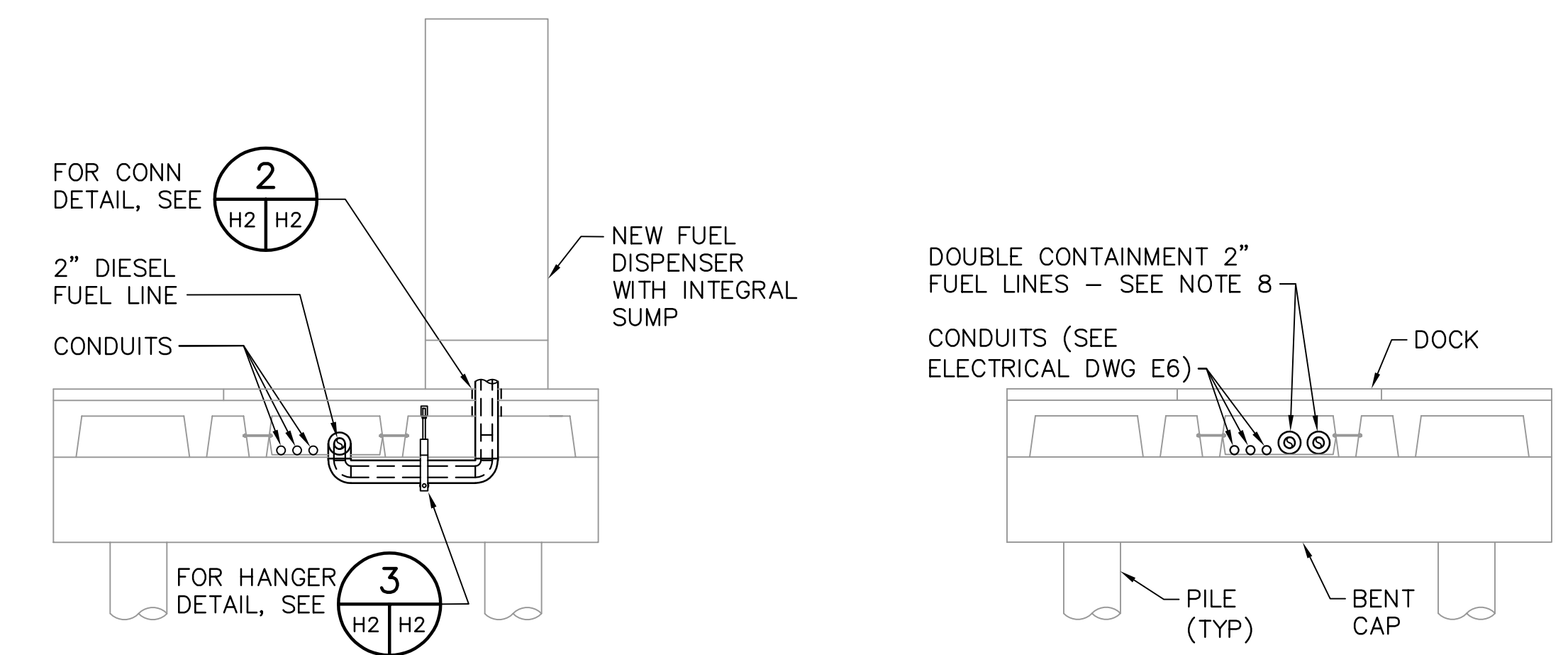
DETAIL 3
NOT TO SCALE

NOTES:

- WHEN EXISTING SUPPORTS ARE NOT ABLE TO BE UTILIZED TO SUPPORT PIPE, ROLLER HANGERS SHALL BE INSTALLED OR ADDED TO MAINTAIN SPACING PER MANUFACTURER'S RECOMMENDATIONS.
- ALL METAL COMPONENTS OF PIPE HANGER ASSEMBLY SHALL BE 316L STAINLESS STEEL.

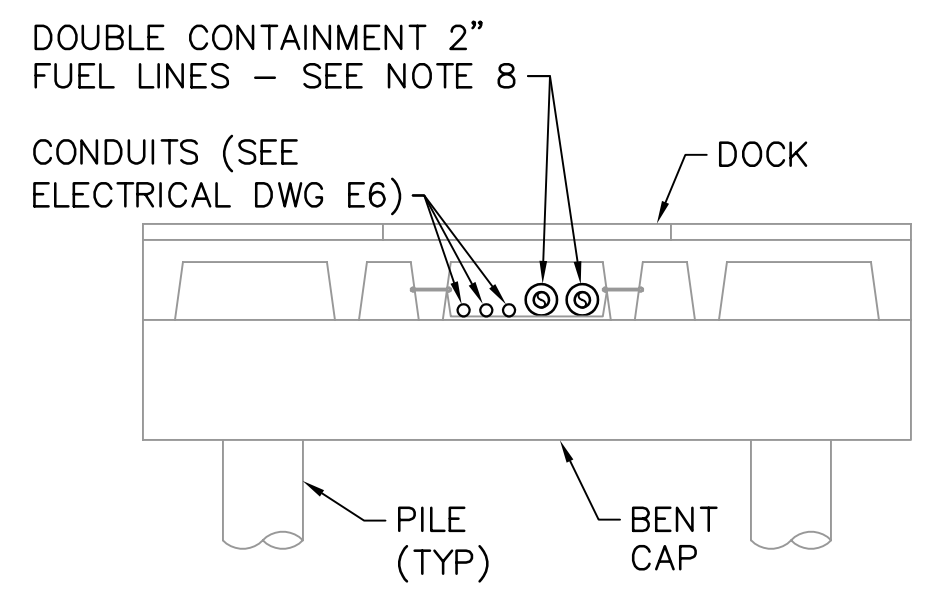


NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24" x 36")

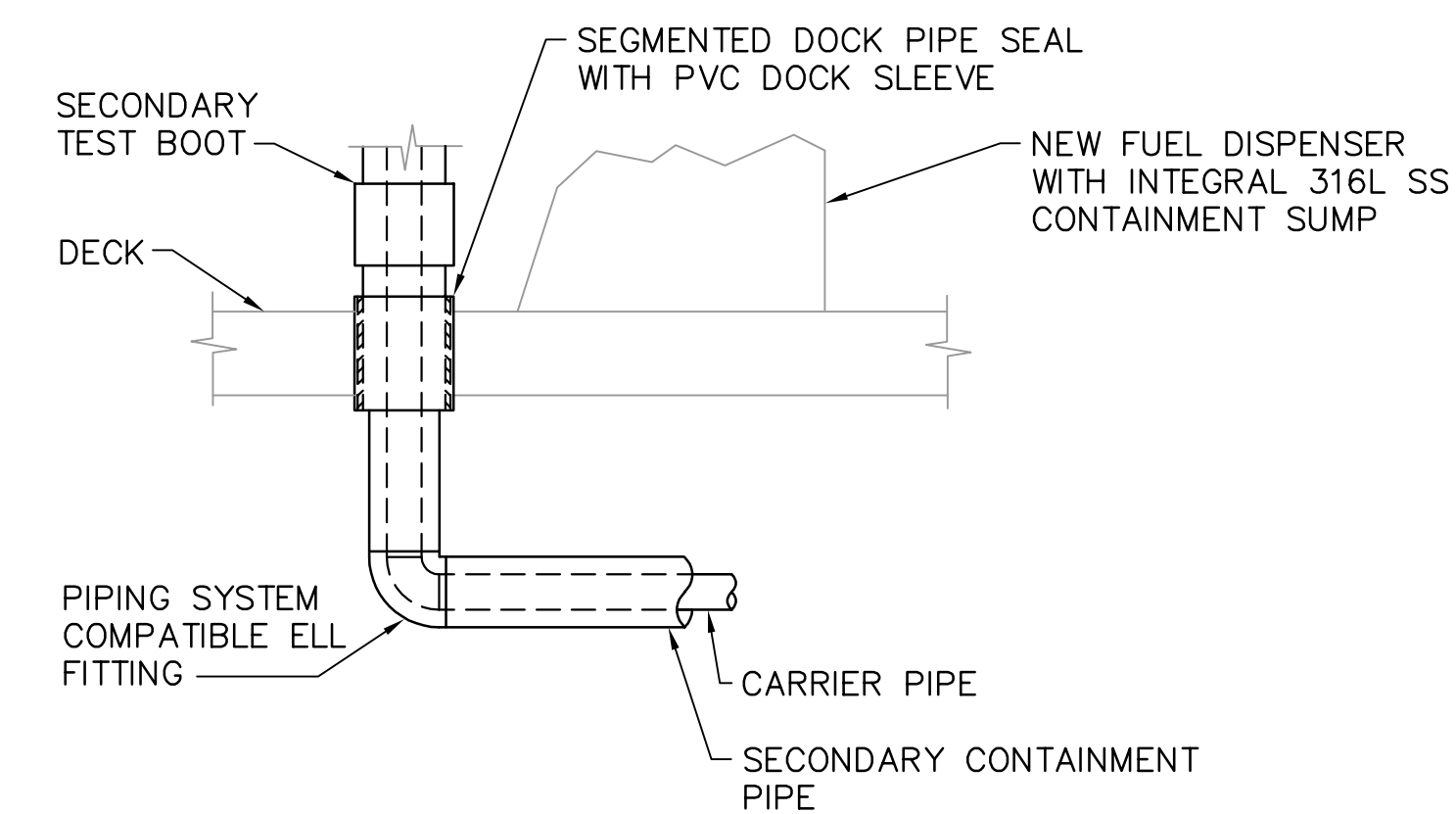


NOTE: PIPING TO NEW GASOLINE DISPENSER SIMILAR

DOCK SECTION A
1/4" = 1'-0"



DOCK SECTION B
1/4" = 1'-0"



ELEVATION 2
NOT TO SCALE

APPROVED BY: [Signature]

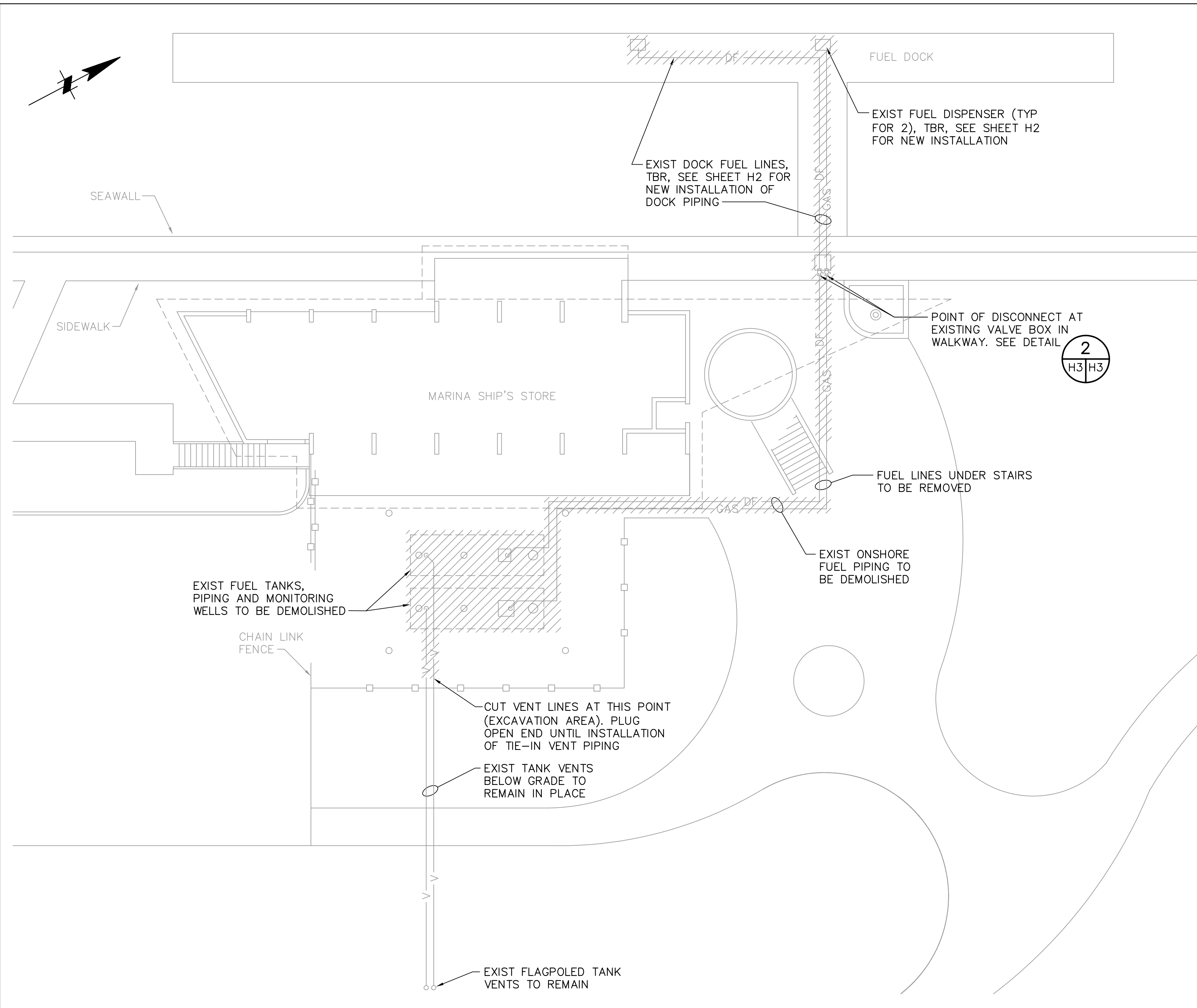
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LIC: EB-0004877

ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG

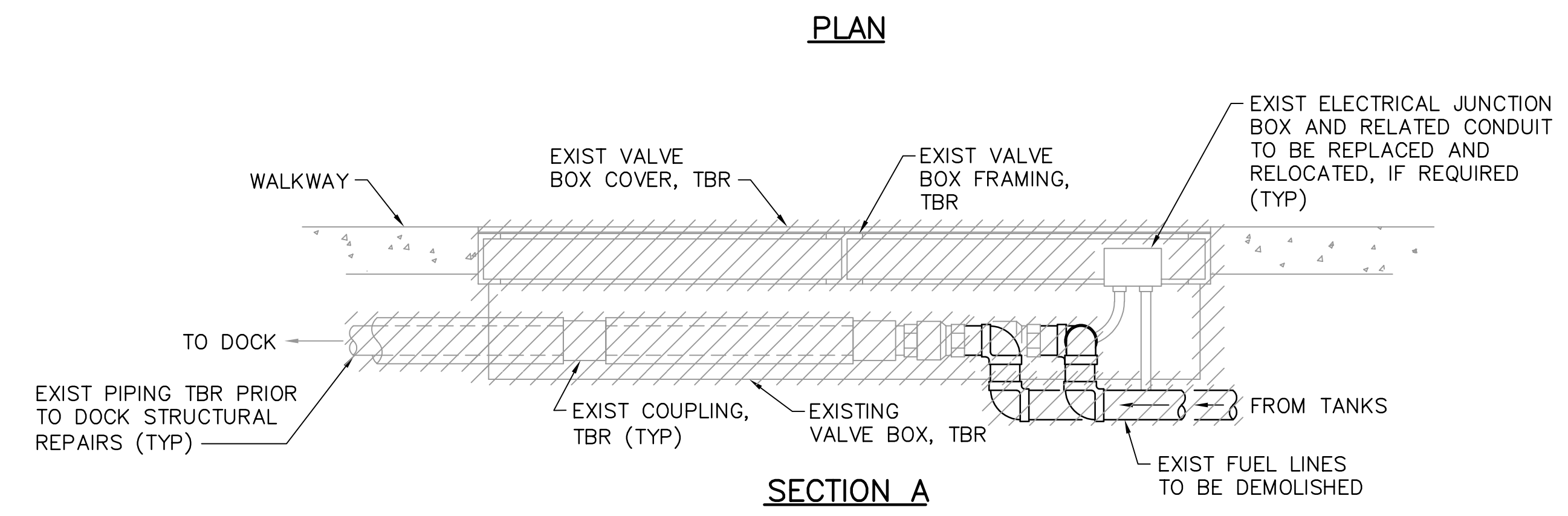
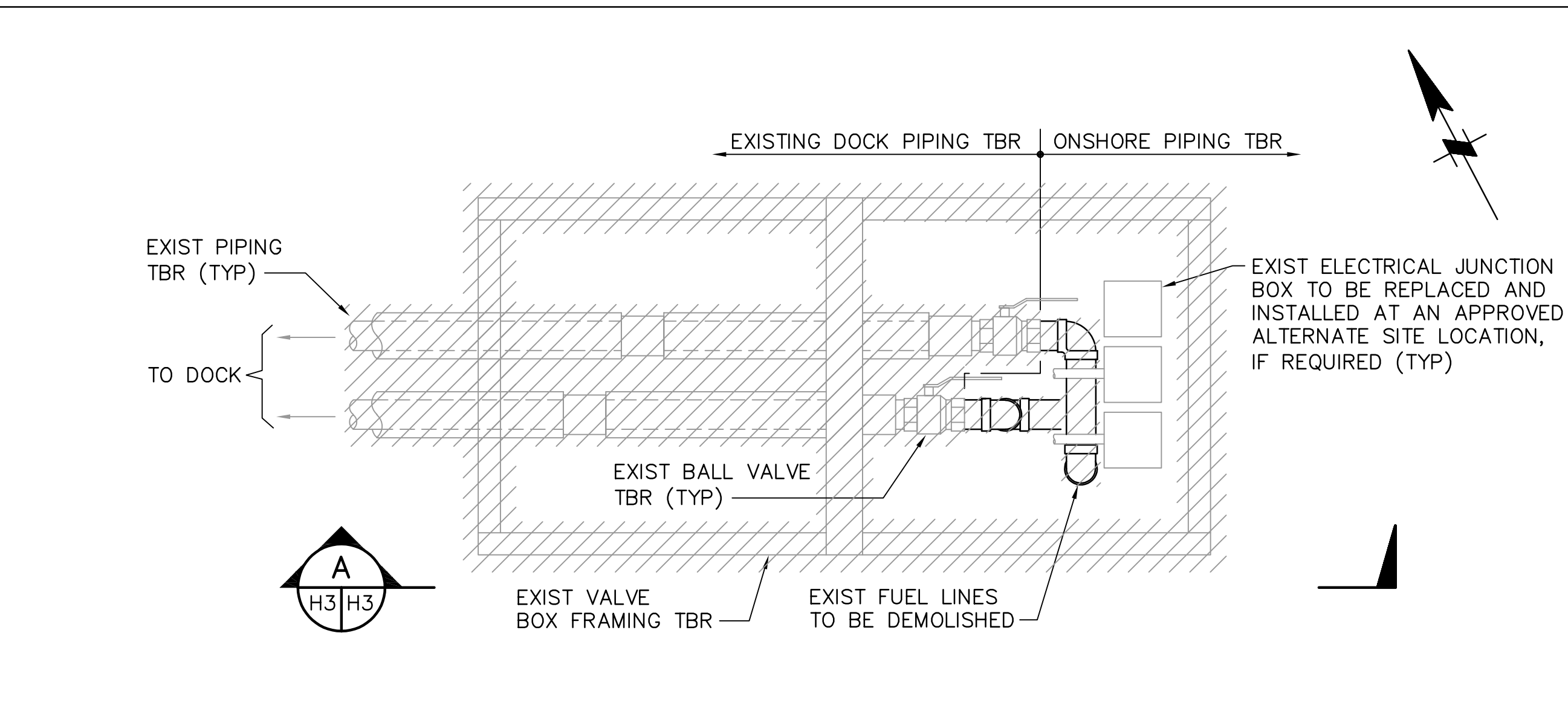
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117

FUEL DOCK
PLAN & DETAILS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-82
SHEET No.: H2



FUEL PIPING DEMOLITION PLAN 1
1" = 10' (X5 H3)



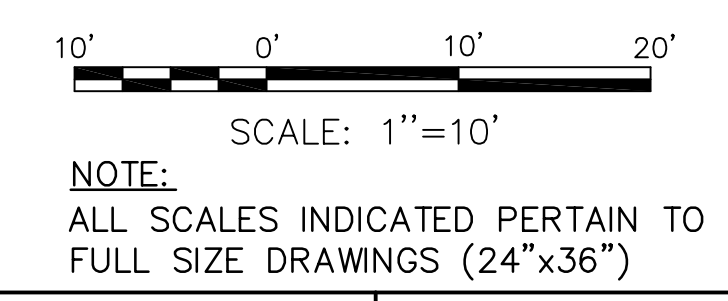
NOTE:
DOCK PIPING REPLACED IN JANUARY 2005 IN ACCORDANCE WITH SHEET H2, SEE DWG GENERAL NOTE 6.

DEMOLITION DETAIL 2
NTS (H3 H3)

NOTES:

- ANY SLAB CUTTING AND REMOVAL OF SOIL AND EMPTY FUEL LINES SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, CITY, COUNTY AND STATE REQUIREMENTS. PIPE, CONDUIT, FIXTURES AND EQUIPMENT SHALL REMAIN IN PLACE TO THE FULLEST EXTENT REASONABLY POSSIBLE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE PIPE REPLACEMENT WORK WITH OTHER WORK AT THE SITE. TEMPORARY SUPPORTS MAY BE USED DURING CONSTRUCTION.
- ALL DISTURBED SURFACES SHALL BE FINISHED TO MATCH THE SURROUNDING SURFACES OR TO ORIGINAL IF THE ENTIRE SURFACE REQUIRED ACCESS DURING CONSTRUCTION.
- EXISTING MONITORING WELL(S) MAY REMAIN IN PLACE ONLY IF THEY DO NOT INTERFERE WITH THE EXCAVATION AND REMOVAL OF EXISTING TANKS AND INSTALLATION OF NEW TANKS. CONTRACTOR SHALL DETERMINE IF EXISTING MONITORING WELL(S) WOULD INTERFERE WITH PROPOSED WORK AND THE RELATED COSTS SHALL BE INCLUDED IN CONTRACTOR'S BID PRICE. THESE POTENTIAL COSTS FOR RESOLVING INTERFERENCE WITH EXISTING MONITORING WELL(S) SHALL INCLUDE ALL REQUIRED OFFICIAL NOTIFICATION(S) AND CLOSURE REPORT(S) AS APPROVED BY ALL REGULATORY AUTHORITIES, ALONG WITH THE LEGAL REMOVAL AND DISPOSAL OF EXISTING MONITORING WELL(S), PLUS POSSIBLE (SUBSEQUENT) CONSTRUCTION OF NEW (REPLACEMENT) MONITORING WELL(S) AS DETERMINED BY FDEP. IT IS INCUMBENT UPON THE CONTRACTOR TO CONTACT AND VERIFY WITH FDEP WHETHER NEW (REPLACEMENT) MONITORING WELL(S) ARE REQUIRED FOR THOSE POTENTIALLY IMPACTED BY THE WORK. ACCORDINGLY, THE COST OF THE AFOREMENTIONED SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE. EXISTING MONITORING WELLS SHALL BE REMOVED IF THERE IS A POTENTIAL FOR INTERFERENCE WITH NEW CONSTRUCTION.
- ALL FUEL LIQUIDS AND VAPORS SHALL BE REMOVED FROM THE EXISTING TANKS AND PRODUCT LINES PRIOR TO DEMOLITION IN ACCORDANCE WITH APPLICABLE CODES AND RULES.
- EXISTING TANK GRADE HATCHES/COVERS MAY BE REUSED IF APPROVAL IS GIVEN BY THE ENGINEER AND IS SUITABLE FOR THE NEW TANKS AND TRANSITIONAL SUMP LOCATION.
- CONTRACTOR SHALL INSPECT RECENTLY INSTALLED DOCK FUEL PIPING NOTED FOR REMOVAL AND SHALL VERIFY ITS REUSE, IF REUSE IS AN ECONOMIC ALTERNATIVE TO NEW FUEL PIPING. REUSE SHALL BE APPROVED BY ENGINEER. NEW PIPE SECTIONS MAY BE REQUIRED AT DISPENSER AND TRANSITION SUMP CONNECTIONS TO ACCOMMODATE NEW DISPENSERS AND SUMP LOCATION AND DESIGN. EXISTING LINES SHALL BE LEGALLY DRAINED AND PURGED OF PRODUCT AND DISASSEMBLED PER MANUFACTURER'S RECOMMENDATIONS. DURING STORAGE, PIPE ENDS SHALL BE CAPPED AND PIPE SHALL BE PROTECTED FROM SUNLIGHT AND DELTERIOUS CONSTRUCTION WORK.

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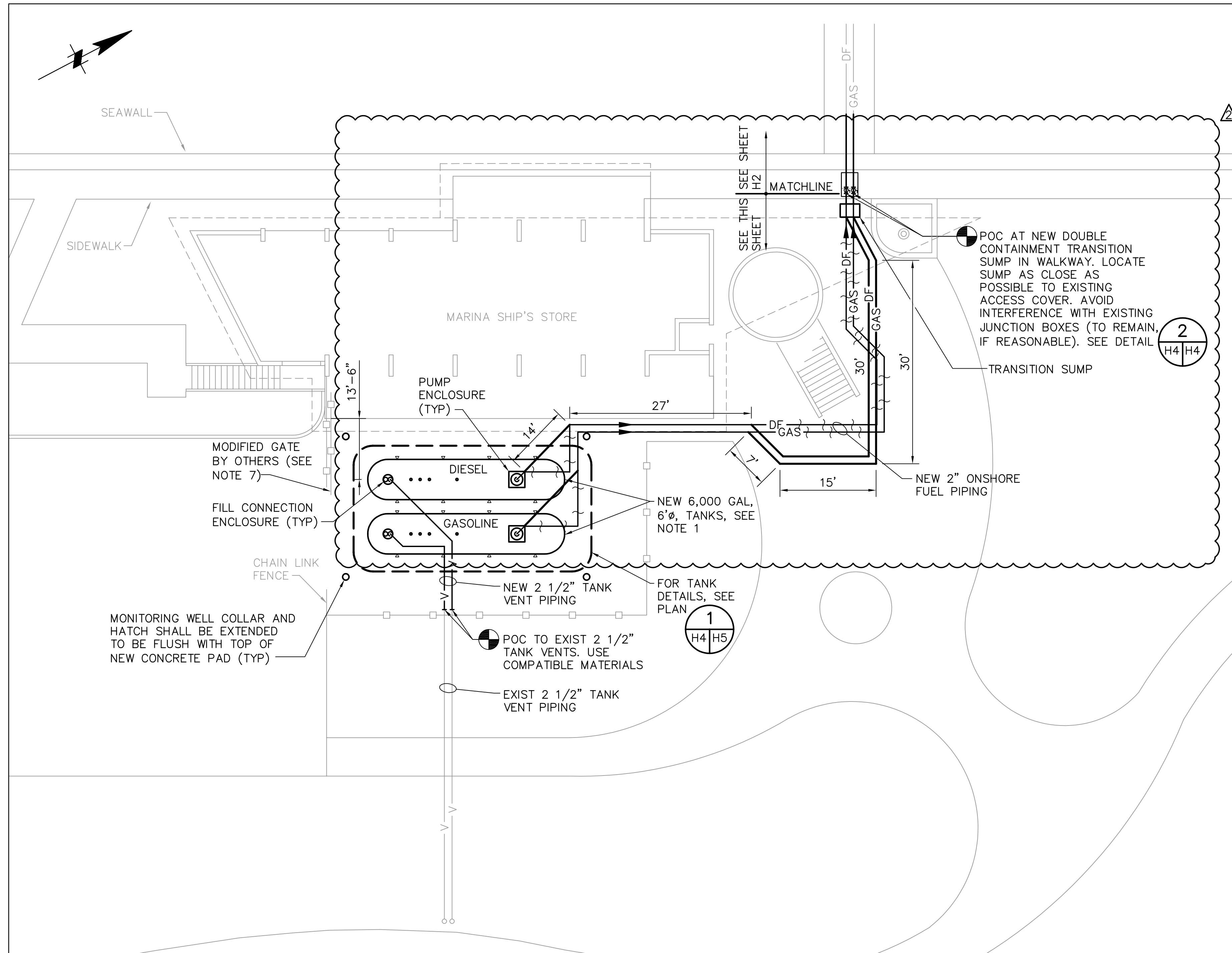
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CITY OF ST. PETERSBURG
APPROVED BY:

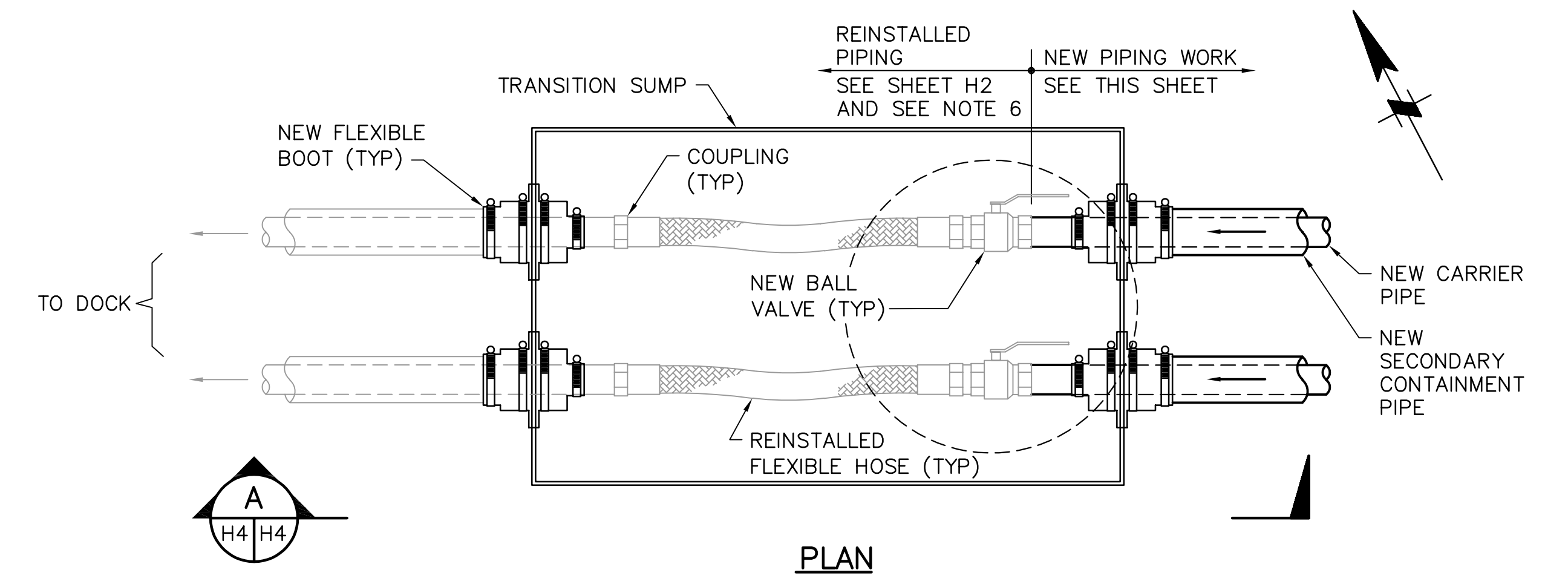
MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FUEL TANKS DEMOLITION
PLAN & DETAILS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-83
SHEET No.: H3

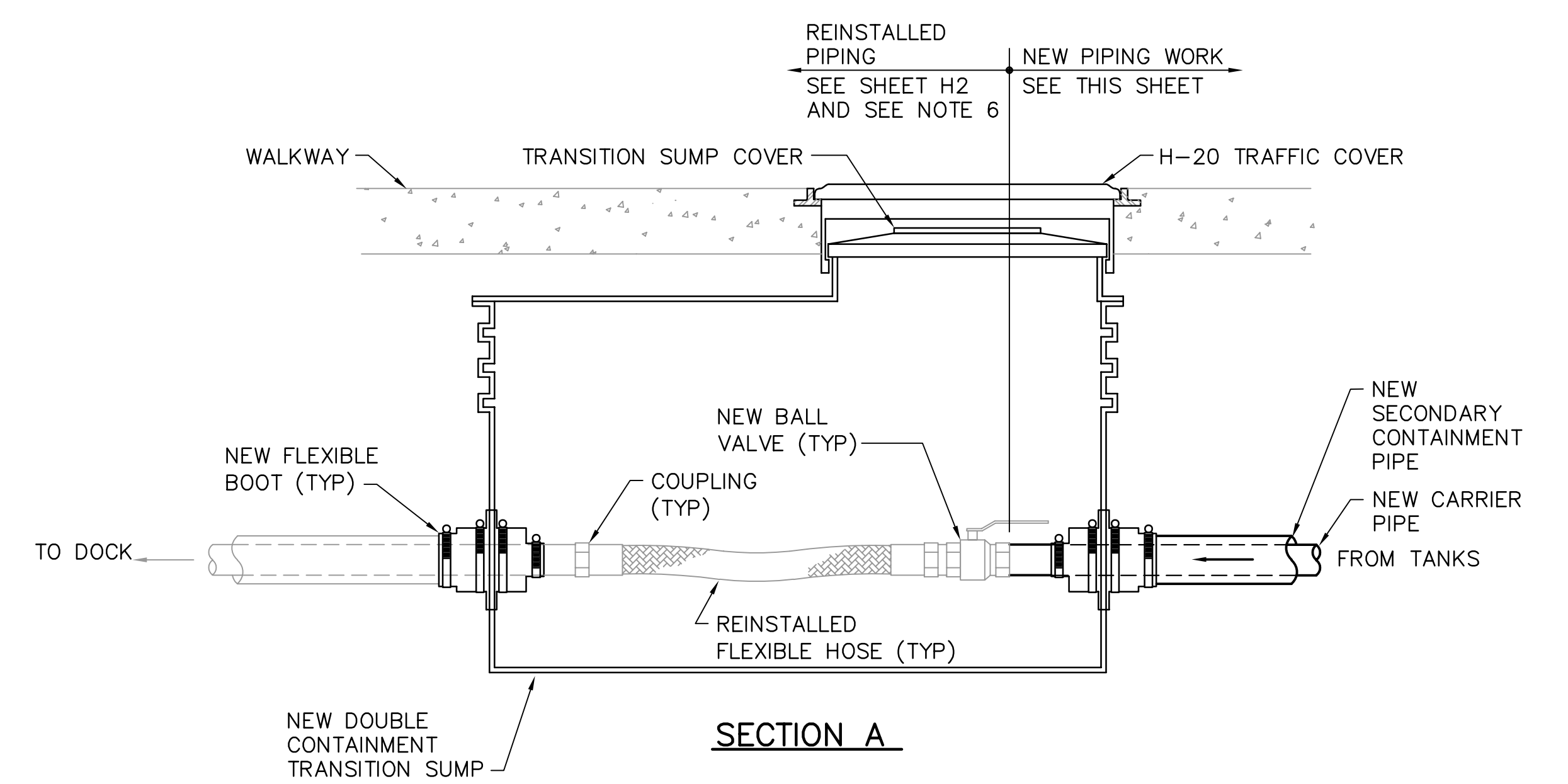
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FUEL PIPING PLAN 1
1" = 10'



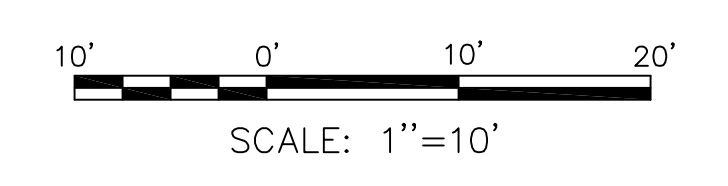
PLAN



SECTION A

NOTE:
REFER TO SHEET E14 FOR ELECTRICAL WORK AT TRANSITION SUMP

DETAIL 2
NOT TO SCALE



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

NOTES:

- TANK LOCATIONS SHOWN ARE APPROXIMATE. THE WEST EDGE OF THE NEW DIESEL TANK SHALL NOT GO FURTHER THAN THE WEST EDGE OF THE EXISTING DIESEL TANK. THE NORTH EDGE OF THE NEW TANKS SHALL NOT BE INSTALLED ANY FURTHER NORTH THAN THE EXISTING TANKS.
- CONTRACTOR SHALL ROUTE NEW PUMP DISCHARGE FUEL PIPING ALONG DEMOLISHED PIPE ROUTE, BUT SHALL AVOID FOUNDATIONS OF THE STAIRCASE NORTH OF THE TANKS AND OTHERS ALONG THE PROPOSED GENERAL ROUTE.
- AS WARRANTED, THE LOCATION OF NEW OR RELOCATED MONITORING WELLS SHALL BE DETERMINED BY DEP INSPECTOR. MONITORING WELLS SHALL COMPLY WITH ALL DEP REGULATIONS.
- WELD NEW VENT LINES TO EXISTING. LINES ARE TO CONTINUOUSLY SLOPE TOWARD THE RESPECTIVE FUEL TANK.
- REROUTE AND REPLACE EXISTING ELECTRICAL CONDUITS AND JUNCTION BOXES NEAR TRANSITION FUEL PIPING, IF REQUIRED. LOCATE BURIED JUNCTION BOXES UNDER NEW WALKWAY COVER, AS APPROVED BY ENGINEER.
- CONTRACTOR SHALL INSPECT FUEL PIPING NOTED FOR REMOVAL AND SHALL VERIFY ITS REUSE, IF REUSE IS AN ECONOMIC ALTERNATIVE TO NEW FUEL PIPING. REUSE SHALL BE APPROVED BY ENGINEER. NEW PIPE SECTIONS MAY BE REQUIRED AT DISPENSER AND TRANSITION SUMP CONNECTIONS TO ACCOMMODATE NEW DISPENSERS AND SUMP LOCATION AND DESIGN.
- GATE SHALL BE MODIFIED BY OTHERS FOR FUEL TRUCK ACCESS.

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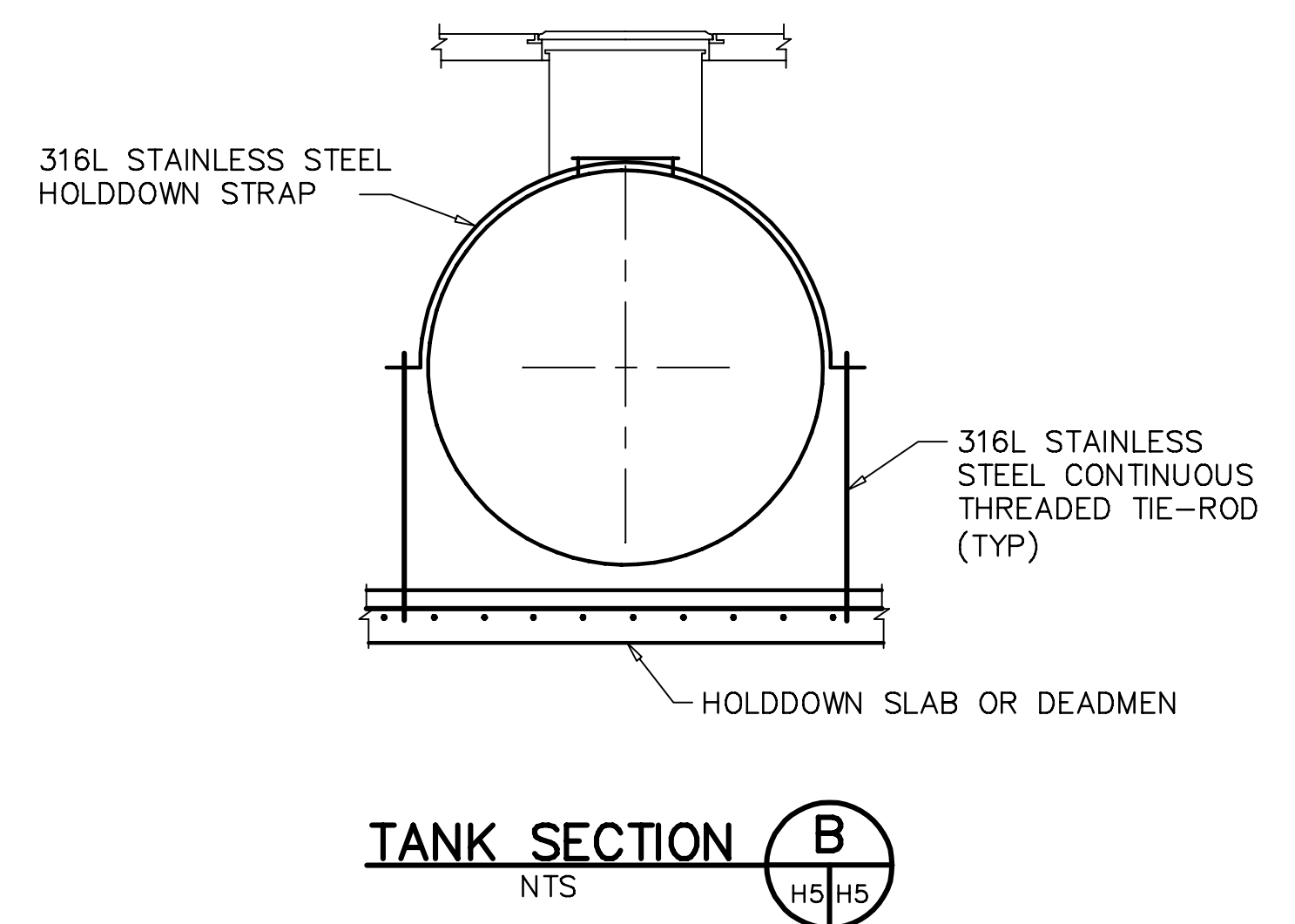
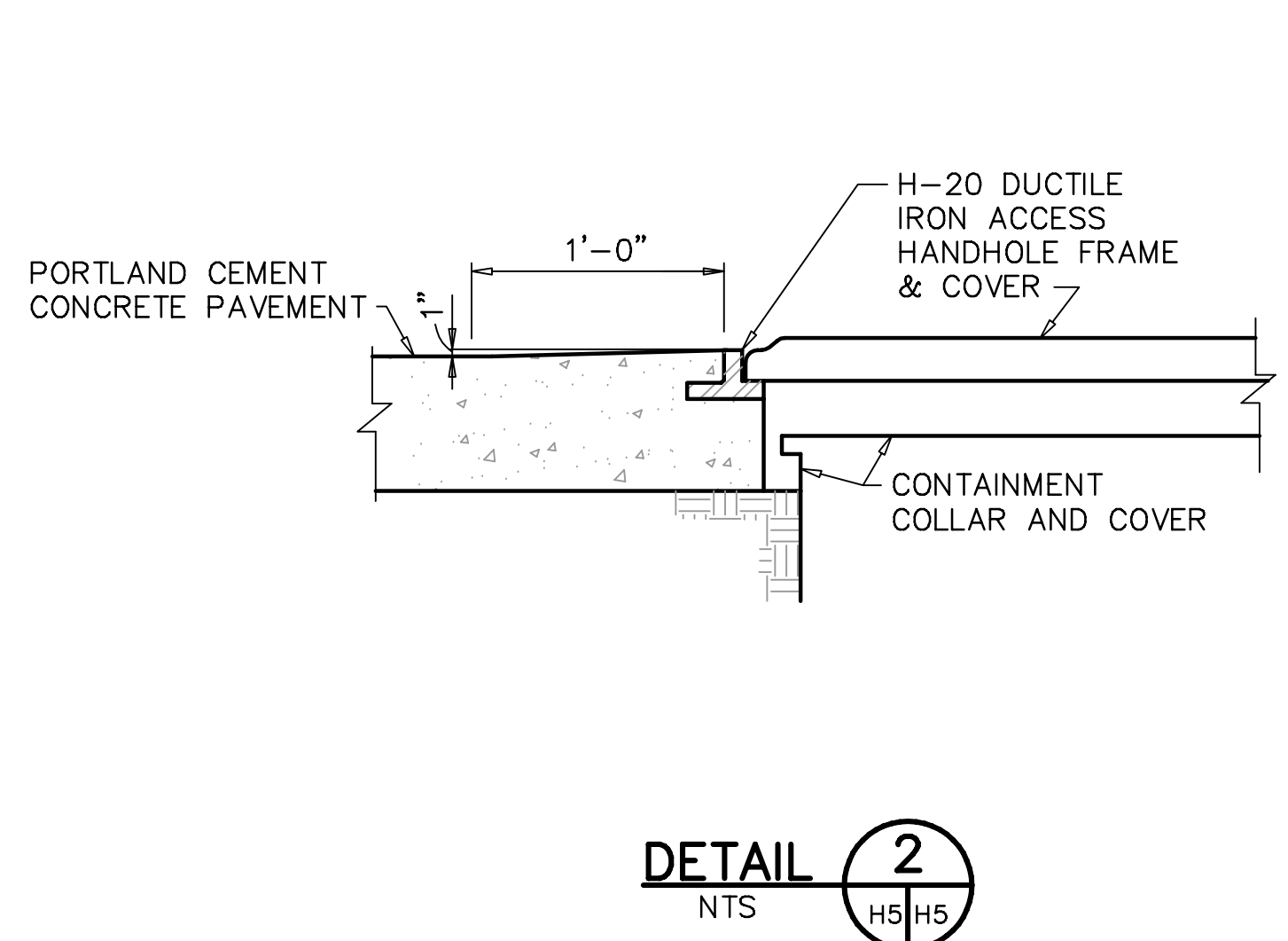
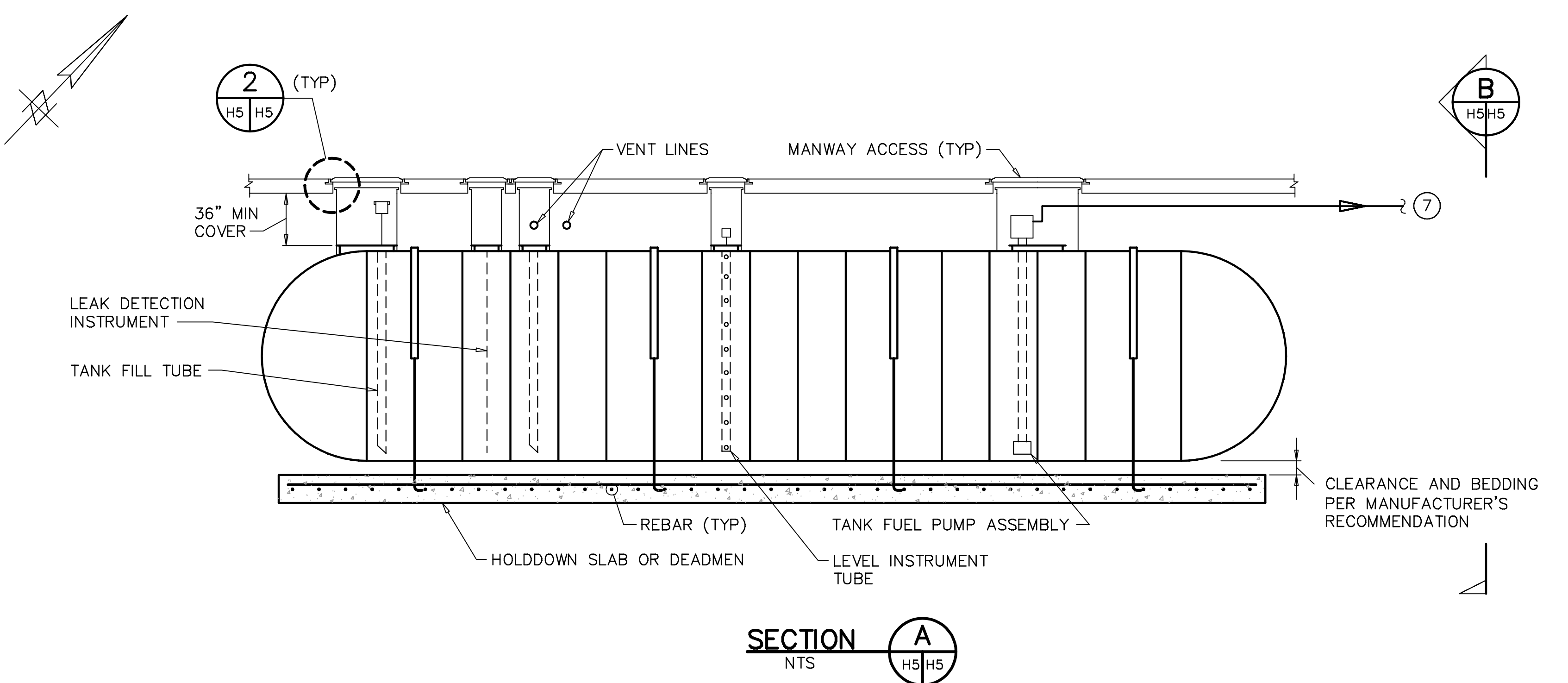
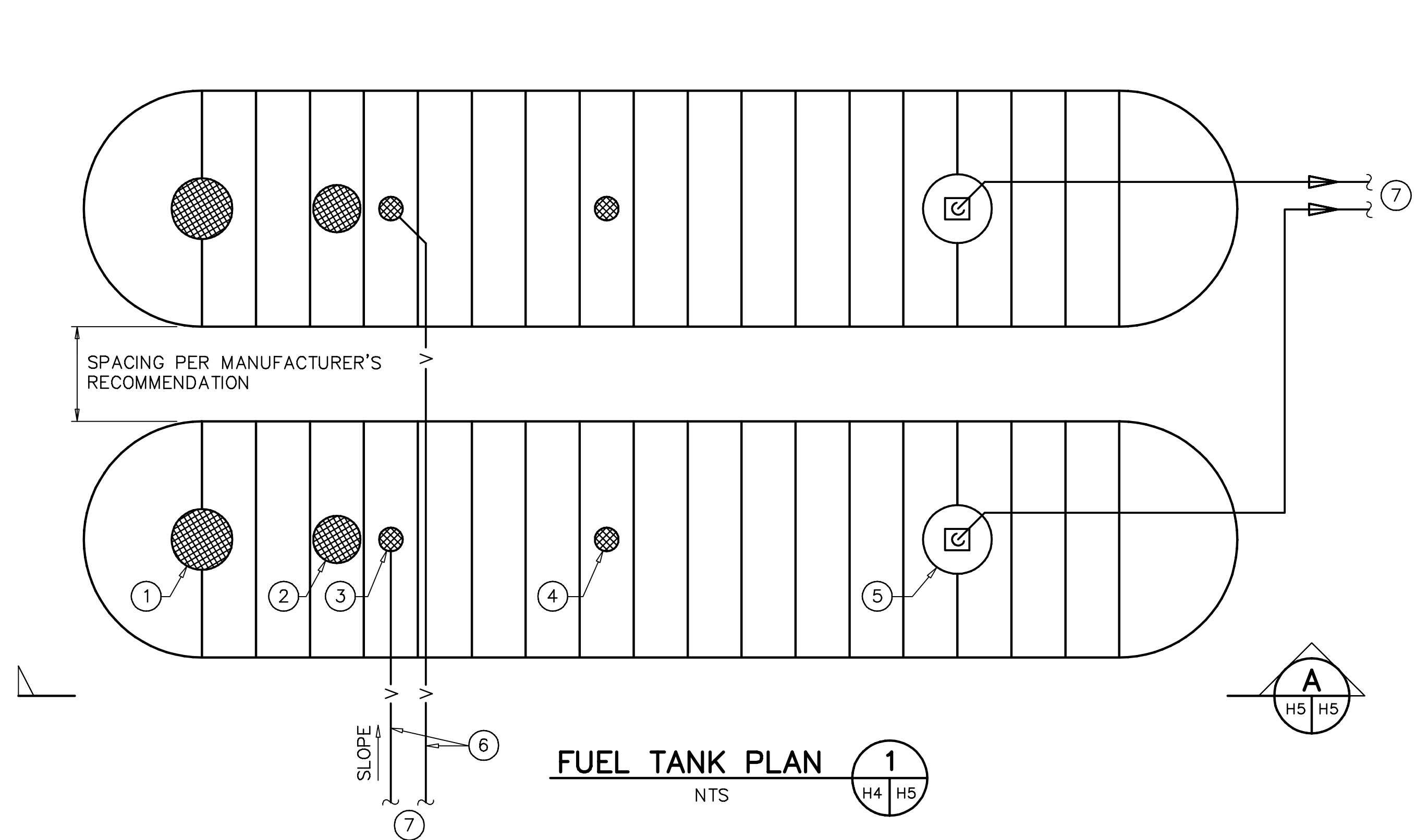
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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FUEL TANKS
PLAN, SECTION & DETAILS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-84
SHEET No.: **H4**



NOTES:

1. THE DETAIL SHOWN IS ONLY A REPRESENTATIVE OF ELEMENTS REQUIRED FOR UNDERGROUND STORAGE TANK INSTALLATION. CONTRACTOR TO SUBMIT TANK DRAWINGS FOR APPROVAL. TANK LOCATION AND ORIENTATION, AND TANK EQUIPMENT LOCATION, SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER.
2. BEDDING AND COMPACTION PER TANK MANUFACTURER RECOMMENDATIONS. THE DESIGN AND DETERMINATION OF ANCHORING REQUIREMENTS SHALL BE CONSERVATIVELY BASED ON THE LOCAL MAXIMUM WATER TABLE ELEVATION, MATCHING EXISTING DRIVEWAY PAVEMENT SLAB ELEVATIONS.
3. CONTRACTOR SHALL PROVIDE DESIGN OF TIE-DOWN SLAB OR DEADMEN AND SHALL SUBMIT CALCULATIONS AND DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. SUCH CALCULATIONS AND DRAWINGS MAY BE ISSUED BY THE TANK MANUFACTURER.
4. REPLACED CONCRETE DRIVEWAY SHALL MATCH EXISTING LIMITS AND SHALL BE REPLACED IN COMPLIANCE WITH CITY REQUIREMENTS, AS MINIMUM. THE THICKNESS SHALL COMPLY WITH THE TANK MANUFACTURER'S REQUIREMENTS.
5. ENCLOSURE COLLAR AND COVER SHALL BE PROVIDED BY THE TANK MANUFACTURER OR AT MANUFACTURER'S RECOMMENDATION. INSTALLATION OF COLLAR, COVER AND GRADE HATCH SHALL RESULT IN A WELL FITTING ASSEMBLY TO PREVENT WATER ENTERING THE ENCLOSURE. THE TOP OF THE GRADE HATCH ASSEMBLY SHALL BE FLUSH WITH THE OPENING. THE IMMEDIATE GRADE AT ACCESS HATCHES/COVERS SHALL BE SLIGHTLY SLOPED TO PREVENT RAIN FROM PUDDLING AT THE HATCH/COVER.
6. ENTRY BOOTS FOR THE FUEL LINES, VENT LINES AND CONDUITS AT THE ENCLOSURES/SUMPS SHALL BE COMPATIBLE WITH THE ENCLOSURE WALL.
7. CONTAINMENT SUMPS SHALL BE TESTED FOR LEAKAGE PER MANUFACTURER'S RECOMMENDATIONS.
8. FUEL PUMP ENCLOSURES AND DOUBLE CONTAINMENT TRANSITION BOX NEAR BULKHEAD WALL SHALL HAVE LEAK DETECTION (NOT SHOWN).
9. TANK FILL CONNECTION AND GAUGING STICK PORTS SHALL HAVE DROP TUBES. DROP TUBES SHALL EXTEND TOWARD THE BOTTOM OF THE TANK. GAP BETWEEN BOTTOM OF TANK AND DROP TUBE SHALL BE PER TANK MANUFACTURER'S RECOMMENDATION. DROP TUBES SHALL BE 4 INCH.
10. FILL CONNECTION AND GAUGING STICK ACCESS SHALL HAVE STRIKER PLATES INSTALLED AT THE BOTTOM OF THE TANK.
11. A CONTAINMENT BASIN SHALL BE INSTALLED AT THE FILL CONNECTIONS.

ITEM CALLOUTS:

- 1 GASOLINE FILL TUBE. COLLAR AND HATCH. A PE GUIDE TUBE SHALL ALSO BE INSTALLED IN THE COLLAR FOR SPILL CONTAINMENT AND TO ALLOW SPILLED PRODUCT AND TRAPPED WATER TO BE REMOVED BY HAND PUMPING.
- 2 TANK ANNULUS SPACE LEAK DETECTION ACCESS PORT.
- 3 MANUAL GAUGING STICK (DIPSTICK) PORT.
- 4 TANK PRODUCT LEVEL INSTRUMENT.
- 5 GASOLINE PUMP MANWAY (WITH ENCLOSURE LEAK DETECTION).
- 6 NEW PORTION OF 2 1/2" TANK VENT. SLOPE NEW VENTS BACK TOWARD TANKS.
- 7 FOR CONTINUATION, SEE DRAWING H4.

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NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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JEFFREY D MALYSZEK, P.E., PROJECT MANAGER DATE
FLORIDA REGISTERED PROFESSIONAL ENGINEER No. 0048745

RECORD DRAWING
ISSUED 06 AUGUST 2007

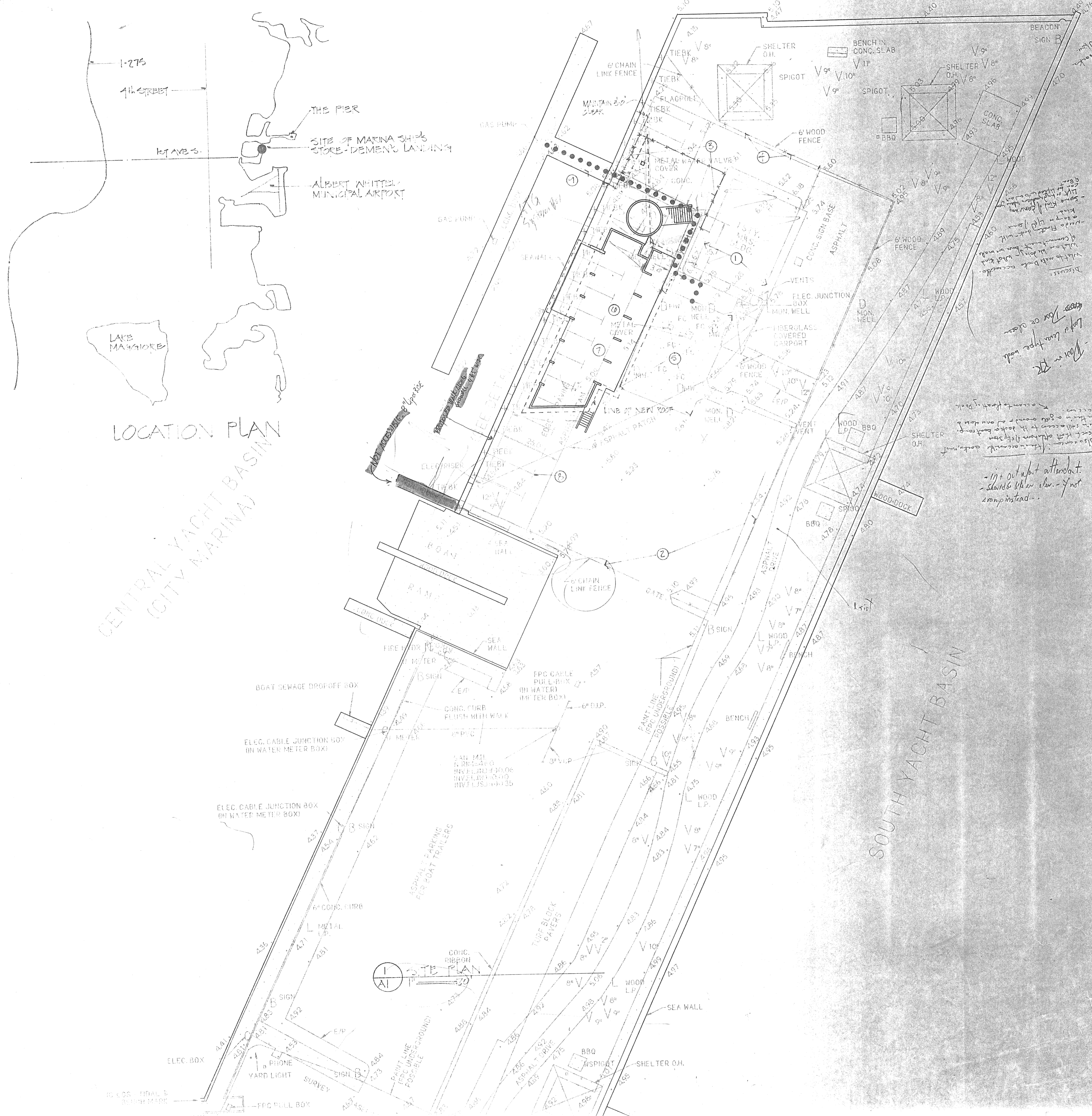
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ENGINEERING, STORMWATER, & TRAFFIC OPERATIONS DEPARTMENT
CITY OF ST. PETERSBURG
APPROVED BY:

MUNICIPAL MARINA SOUTH & CENTRAL BASINS
STRUCTURAL REHABILITATION PROJECT NO. 01074-117
FUEL TANKS
PLAN, SECTIONS & DETAILS

DATE: 06-24-05
SCALE: AS SHOWN
DRAWING No.: 10175-85
SHEET No.: H5



LOCATION PLAN
CENTRAL YACHT BASIN
(CITY MARINA)

SITE PLAN NOTES

- ① EXISTING ONE STORY MASONRY BUILDING WILL REMAIN FOR DURATION OF PROJECT. BUSINESS OCCUPANCY BUILDING WILL ALSO CONTINUE OPERATIONS DURING THE WEEK AND ON SATURDAY. BUILDING WILL BE REMOVED AFTER PROJECT IS COMPLETED BY OWNER.
- ② EXISTING FENCE WILL REMAIN FOR DURATION OF PROJECT, USED AS CONSTRUCTION LIMIT FENCING. OWNER WILL REMOVE AFTER PROJECT COMPLETION.
- ③ NEW SECTION OF 6'-0" HIGH CONSTRUCTION FENCE.
- ④ OWNER WILL REMOVE SECTION OF ASPHALT FENCE TO START OF CONSTRUCTION.
- ⑤ CONCRETE PAD WITH FUELING MAN HOLES OVER TOP OF 2 UNDERGROUND FUEL STORAGE TANKS. PROVIDES ACCESS TO THE PAD FROM PUBLICLY FOR FUEL TRUCKS.
- ⑥ AREA SHOWN SHADDED IN NEW CONCRETE SLAB ON GRADE - SEE A2 FOR MORE INFORMATION.
- ⑦ CONTRACTOR IS TO REMOVE EXISTING ASPHALT DRIVEWAY AND EXISTING SITE PAVEMENT FEATURES TO POINT 510. NEW SITE PAVEMENTS ON THE SOUTH EAST, NORTH AND WEST TO BE GRAVEL BAND AT THE SEAWALL ON THE WEST. CONTRACTOR IS TO ERASE GRAVEY OR PAVED AREAS REQUIRED IN SAME AREA. OWNER WILL PROVIDE CONSTRUCTION AND LANDSCAPE WORK REQUIRED IN SAME AREA.
- ⑧ IN GROUND CABLE STAY AND 6" SET AS PANEL "LEADMAN" FOR SEA WALL - EXIST.
- ⑨ ●●●● INDICATES FUEL LINES AND POND BETWEEN FUEL TANK AND FUEL DISPENSERS ON DOCK.

NOTES

1. BUILDING GROSS AREA: 23000 SF
2. GROUP M - MERCANTILE OCCUPANCY
3. TYPE VI - UNPROTECTED CONSTRUCTION
4. A9 FLOOD ZONE - BUILDING ELEVATION AT 4.5'

INDEX OF DRAWINGS

- A1 SITE PLAN
- A2 FLOOR PLAN & ELEVATIONS
- A3 SECTIONS
- A4 DETAILS
- A5 DETAILS
- S1 DETAILS & NOTES
- S2 PLANS
- M1 PLAN & DETAILS - MECHANICAL
- E1 PLAN & DETAILS - ELECTRICAL
- P1 PLAN & DETAILS - PLUMBING

SHIP STORE

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270 First Avenue South Suite 202
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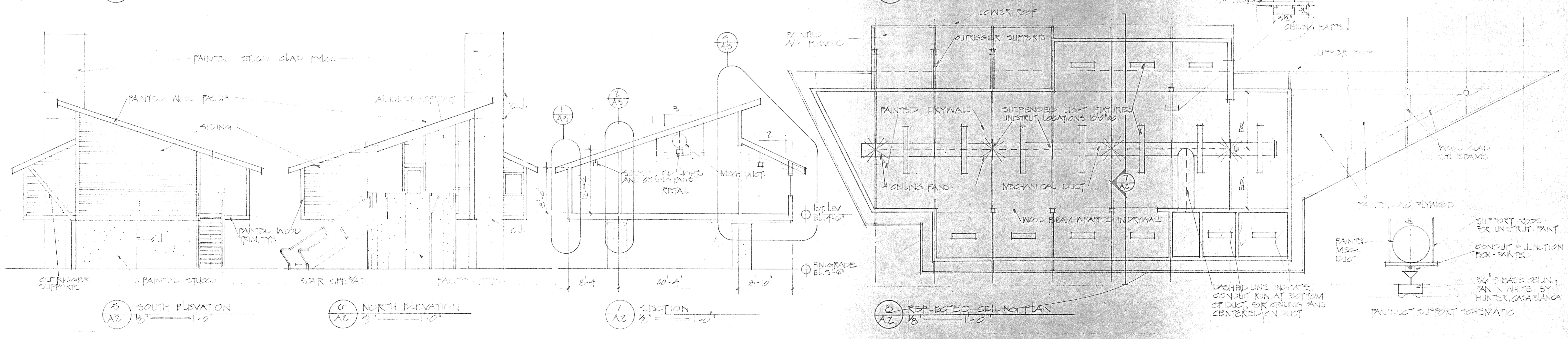
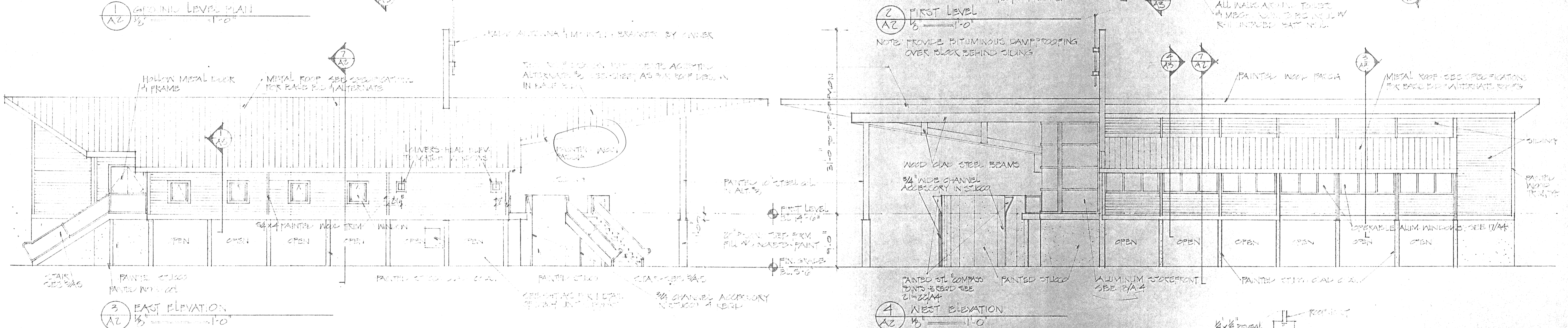
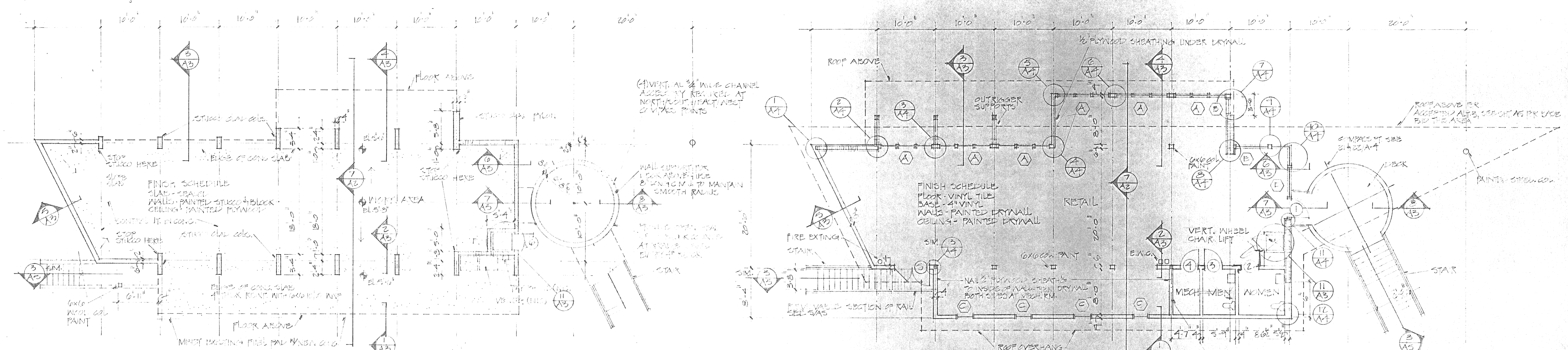
Final Review

MARINA SHIP'S STORE
LEISURE SERVICES DEPARTMENT
CITY OF ST. PETERSBURG
500 FIRST AVENUE SOUTHEAST
ST. PETERSBURG, FLORIDA

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A1



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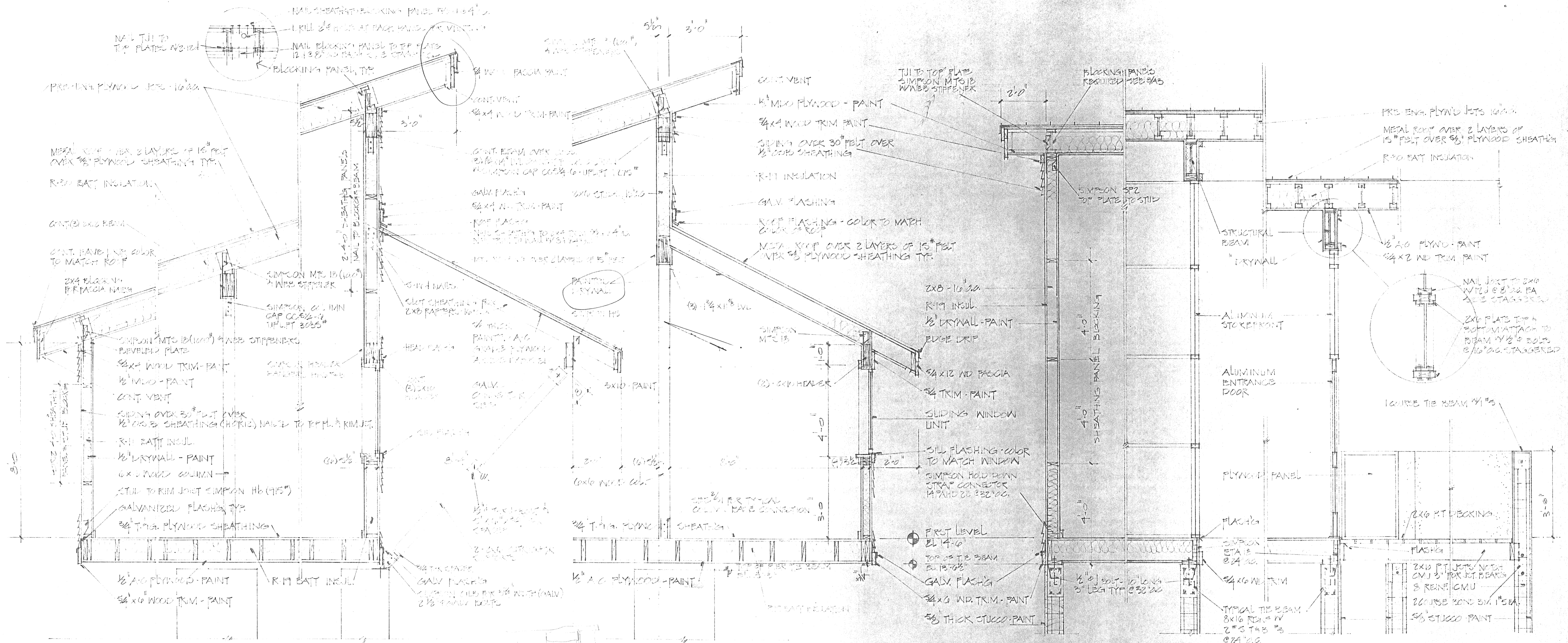
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CITY OF ST. PETERSBURG

500 FIRST AVENUE SOUTHEAST
ST. PETERSBURG, FL 33701

Project No: 9407.00
Date: 5/17/99
Drawing: 5/17/99

Dwg. No. 9998-2

A2



1 SECTION
A3 1/2" = 1'-0"

2 SECTION
A3 1/2" = 1'-0"

3 SECTION
A3 1/2" = 1'-0"

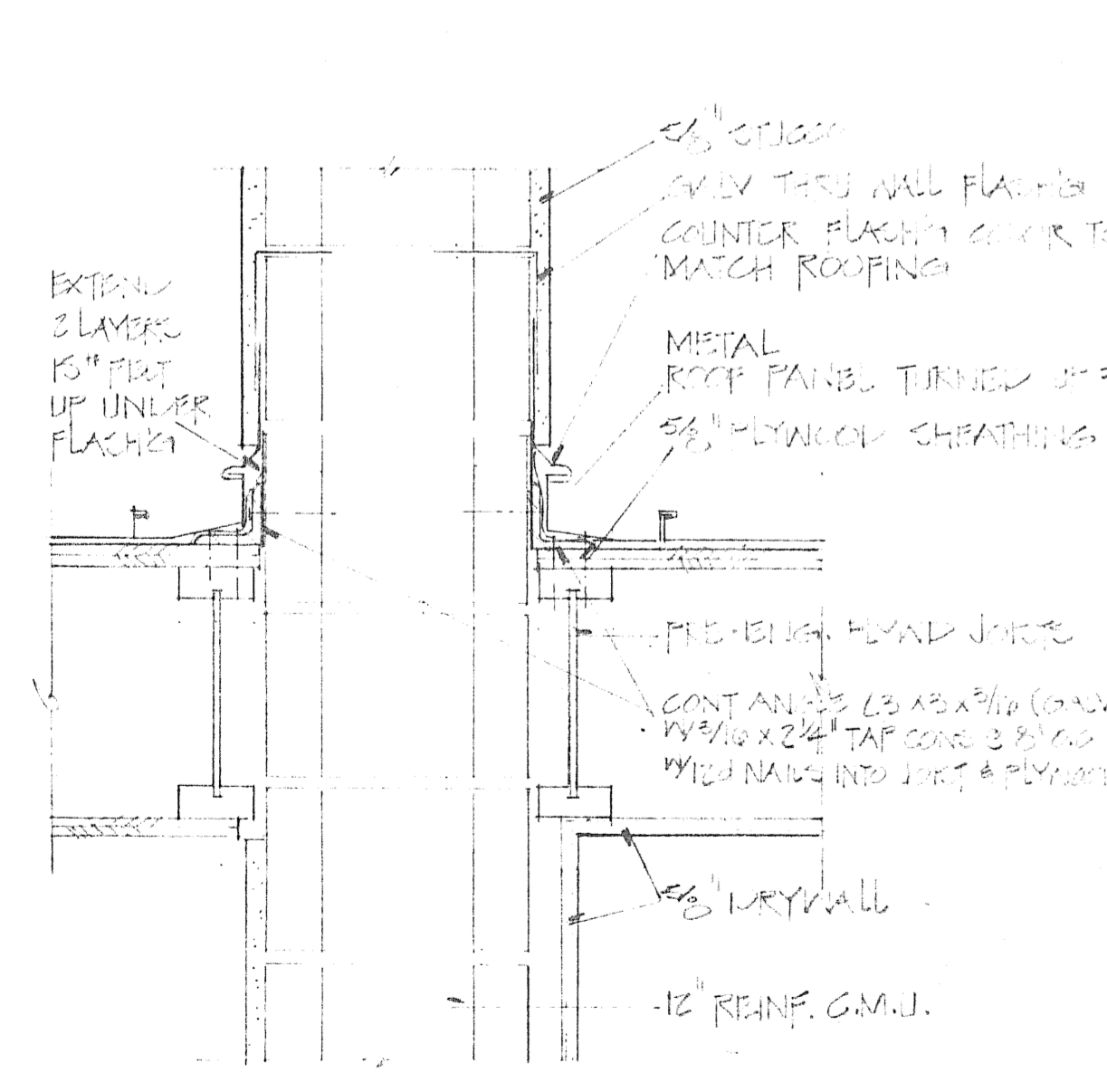
4 SECTION
A3 1/2" = 1'-0"

5 SECTION
A3 1/2" = 1'-0"

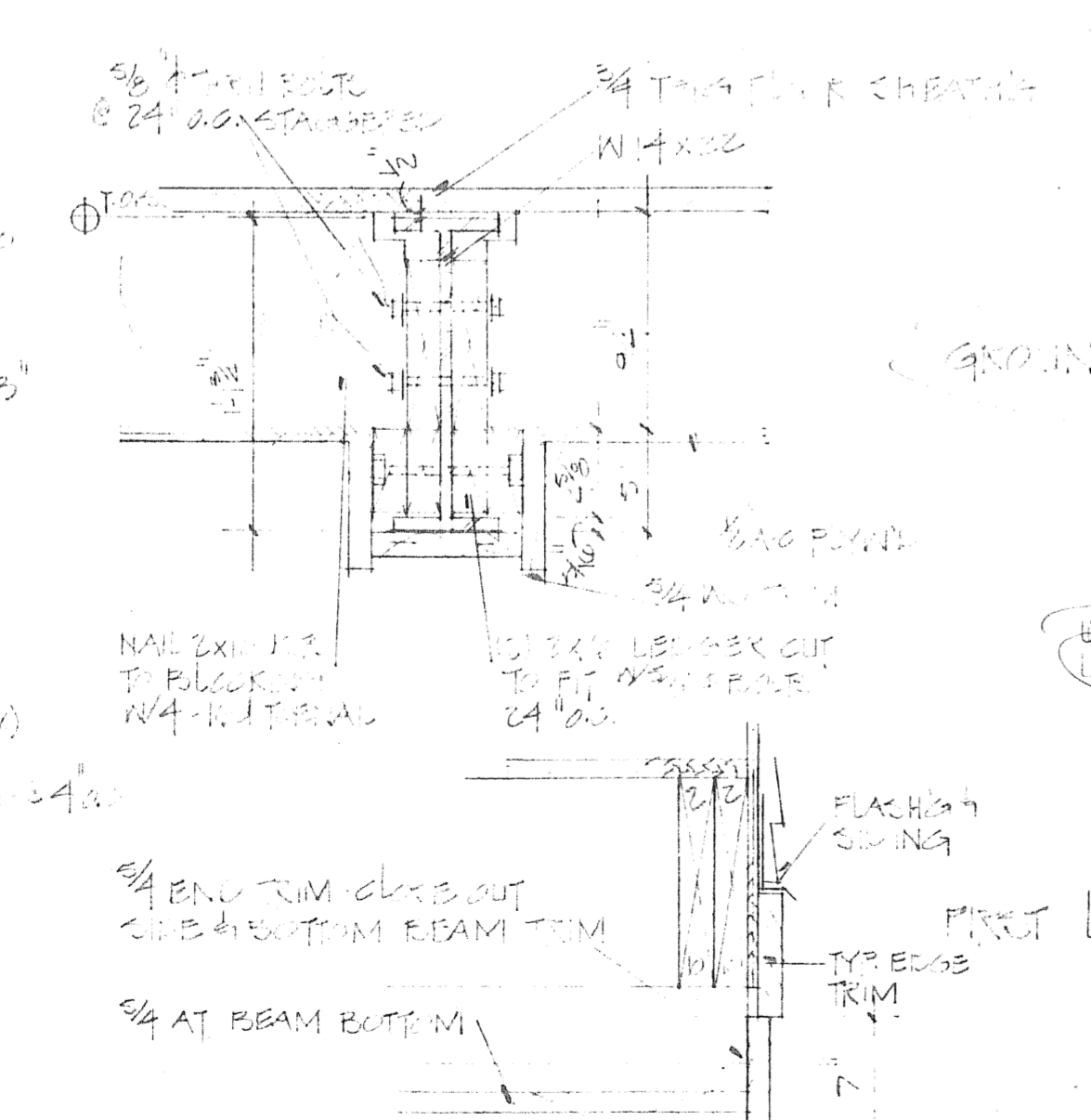
6 SECTION
A3 1/2" = 1'-0"

7 SECTION
A3 1/2" = 1'-0"

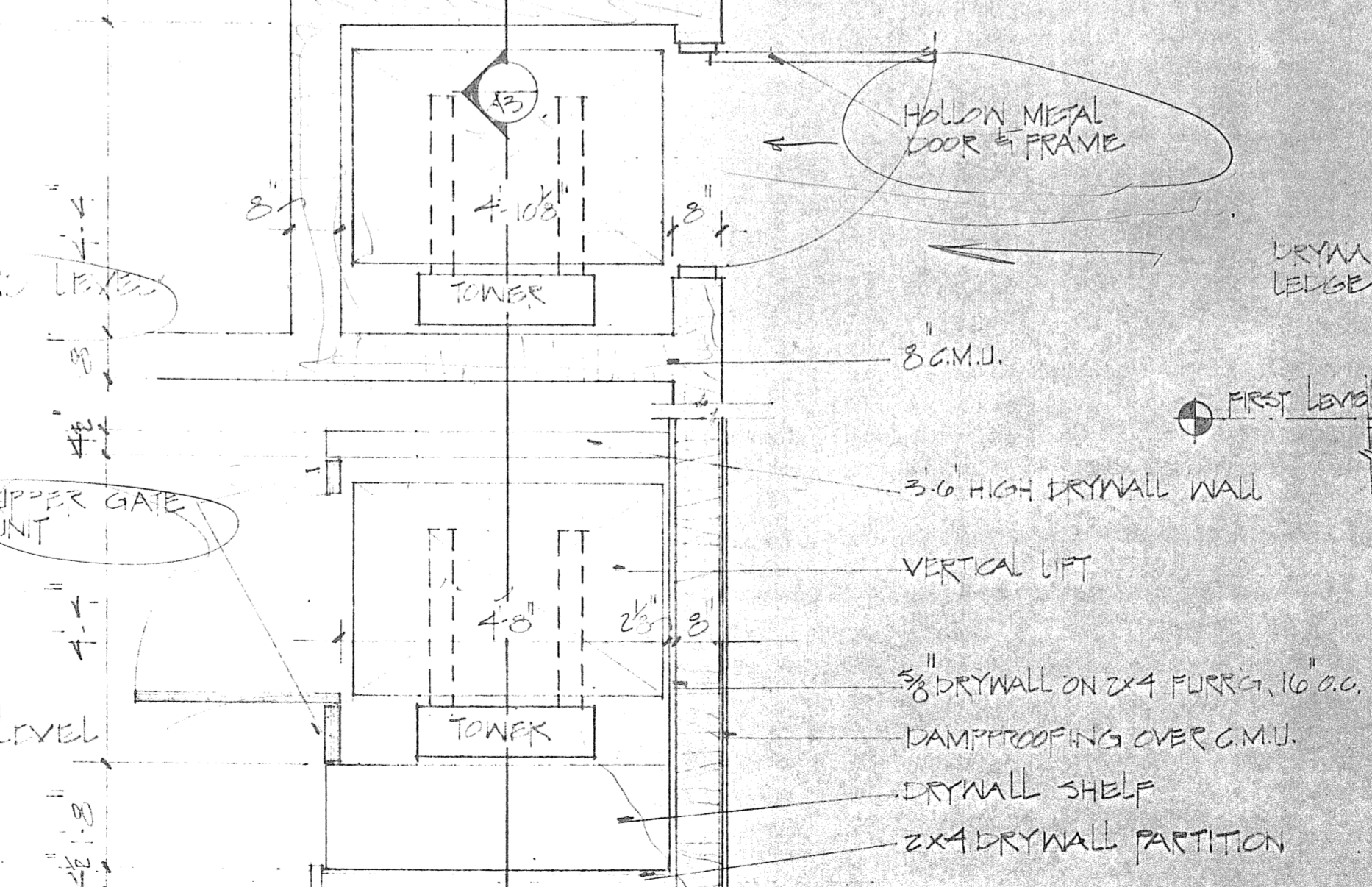
8 SECTION
A3 1/2" = 1'-0"



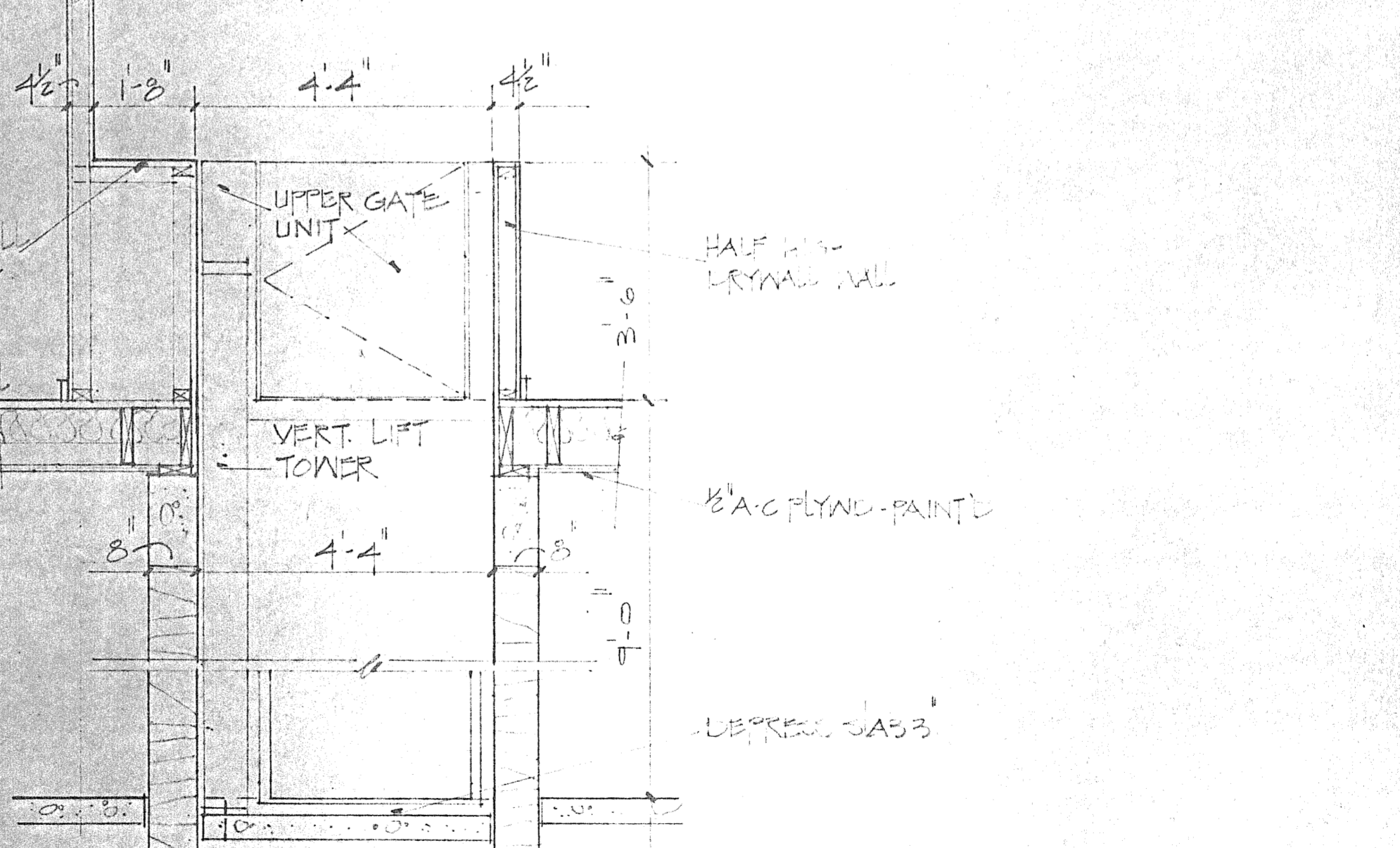
9 ROOF FLASHING - DETAIL
A3 1/2" = 1'-0"



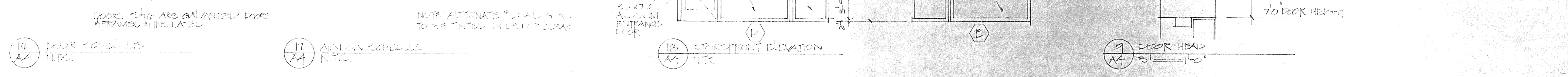
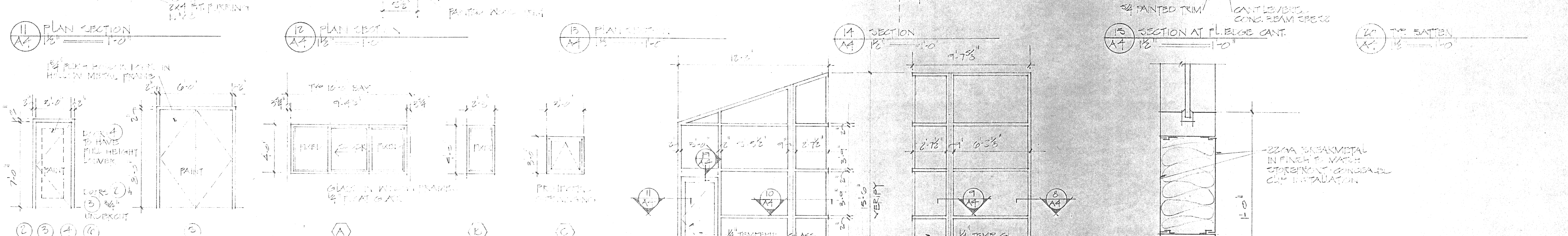
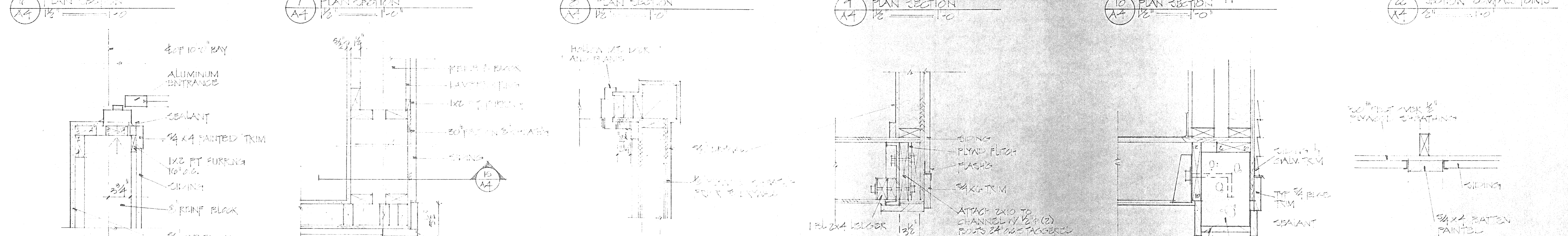
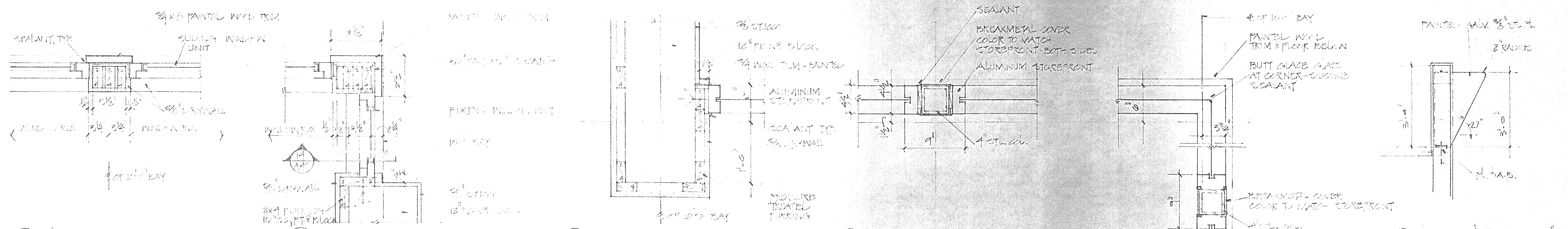
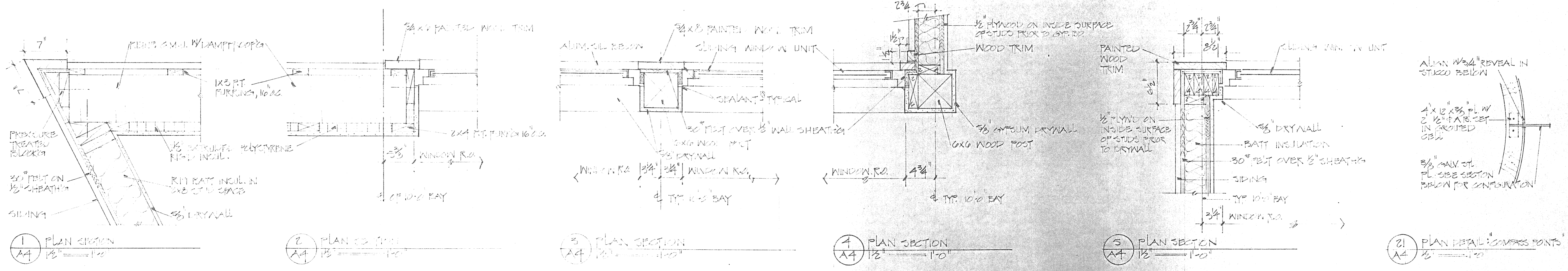
10 FLOOR BEAM
A3 1/2" = 1'-0"



11 VERTICAL WHEEL CHAIR LIFT - PLAN
A3 1/2" = 1'-0"



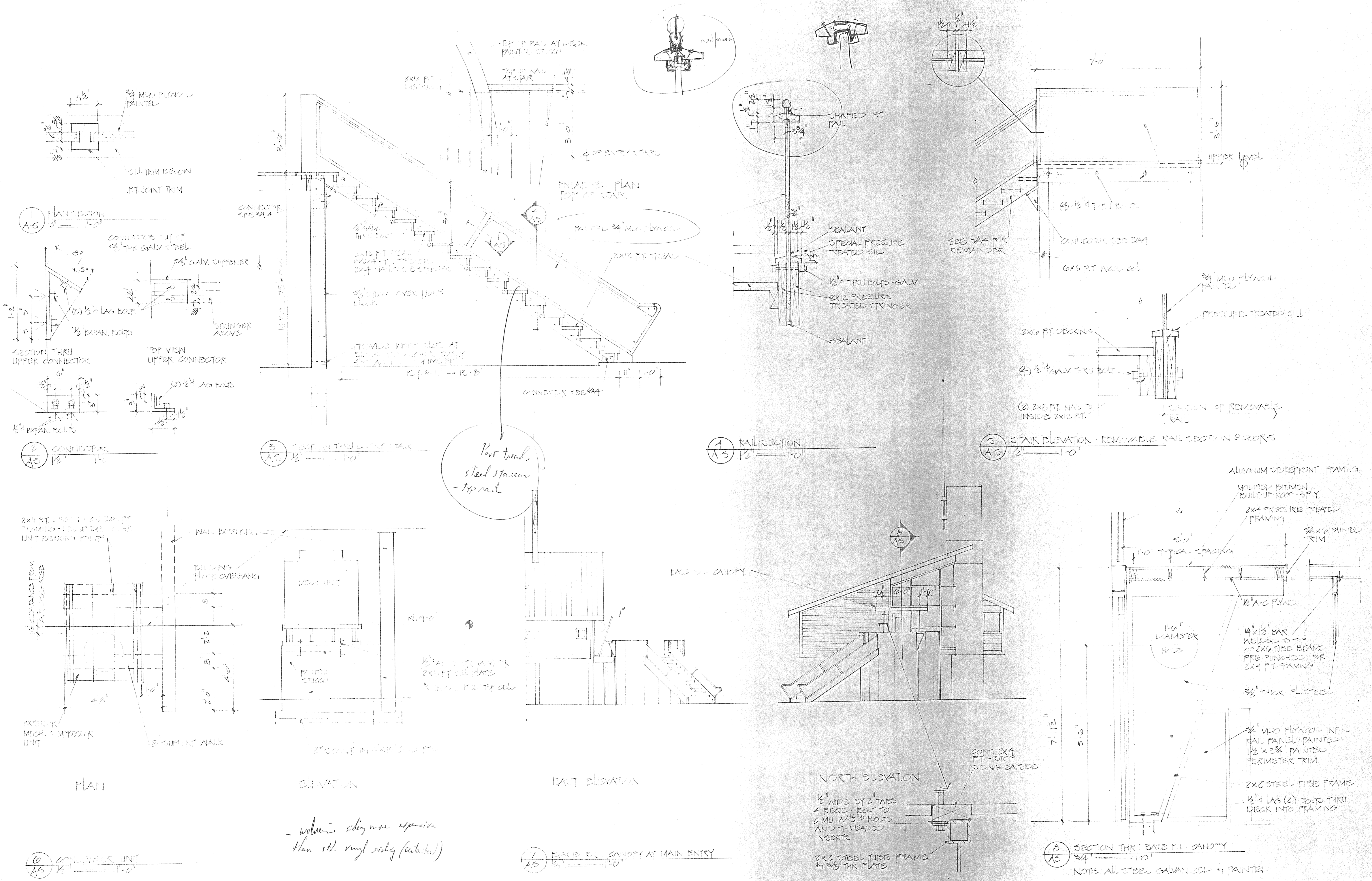
12 SECTION VERT. CHAIR LIFT
A3 1/2" = 1'-0"



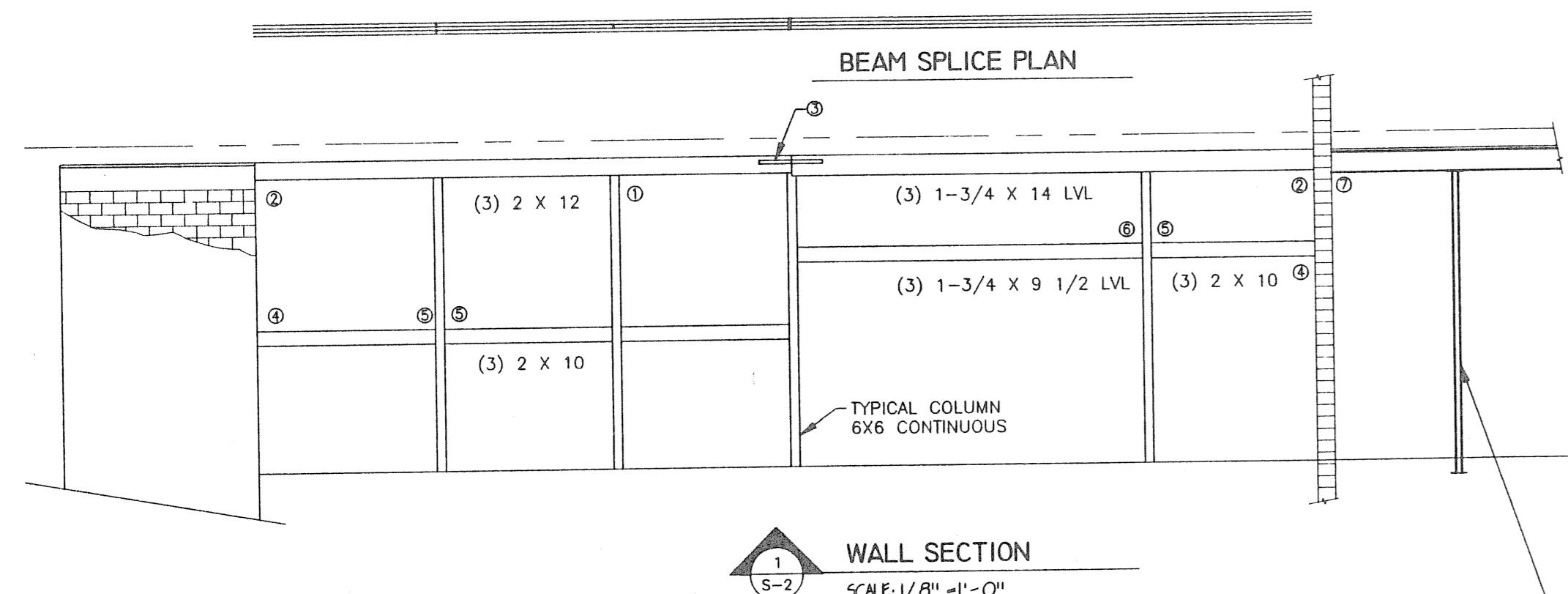
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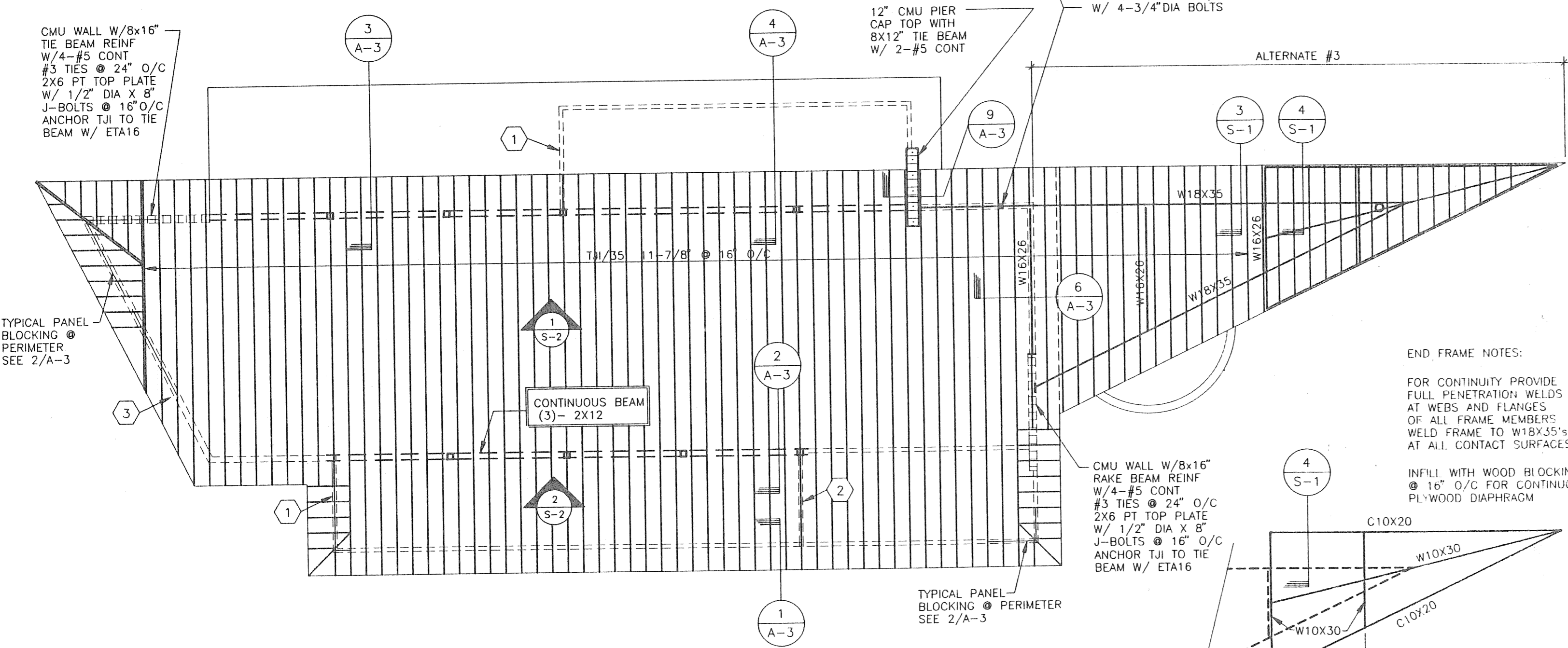
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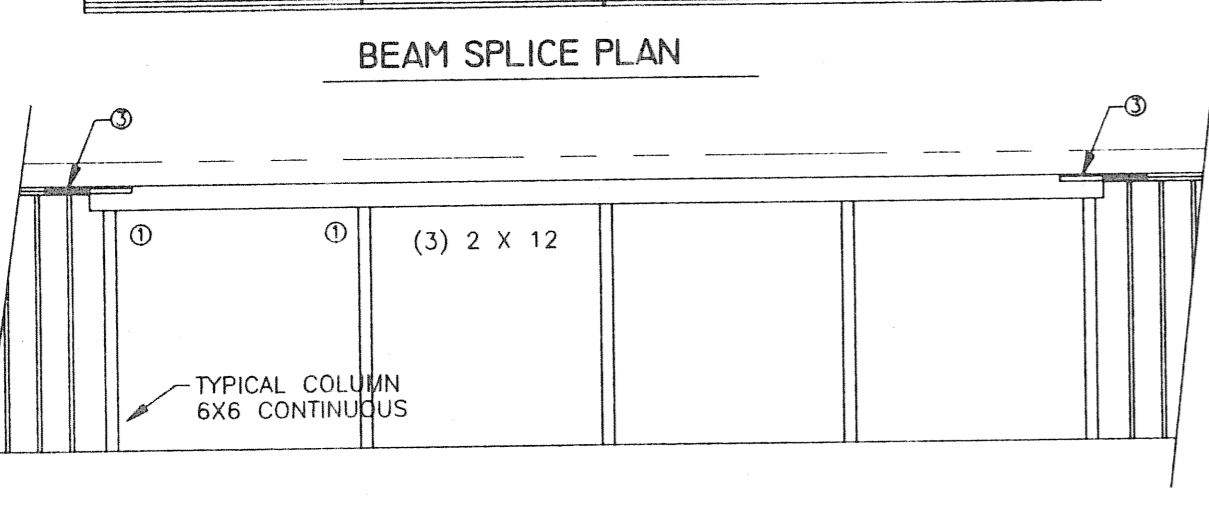
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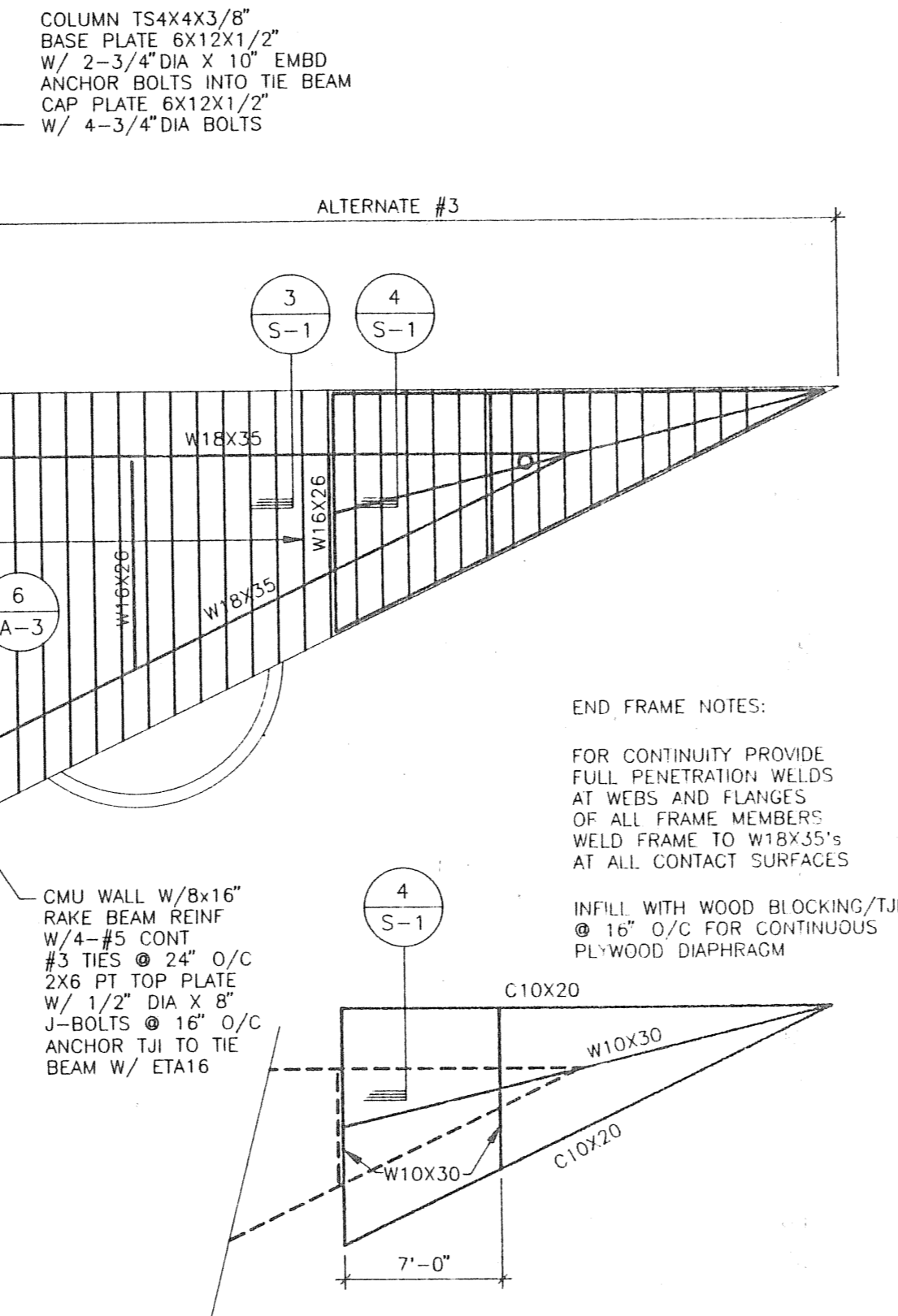
WALL SECTION
SCALE: 1/8" = 1'-0"



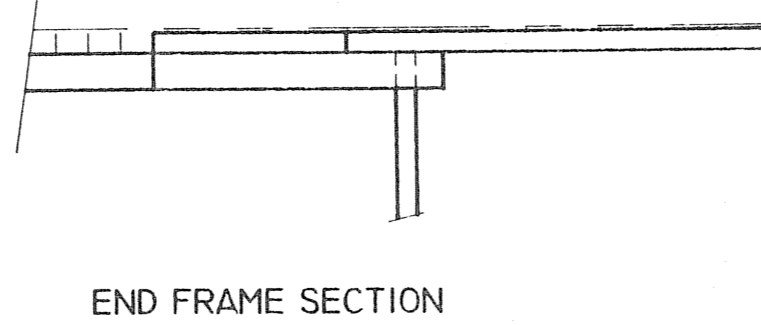
ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



WALL SECTION
SCALE: 1/8" = 1'-0"



END FRAME PLAN



END FRAME SECTION

END FRAME NOTES:
FOR CONTINUITY PROVIDE FULL PENETRATION WELDS AT WEBS AND FLANGES OF ALL FRAME MEMBERS; WELD FRAME TO W18X35'S AT ALL CONTACT SURFACES
INFILL WITH WOOD BLOCKING/TJI @ 16" O/C FOR CONTINUOUS PL-WOOD DIAPHRAGM

WOOD SHEAR WALL SCHEDULE

- 10H SHEAR WALL SEGMENT:
2 LAYERS OF 1/2" OSB ONE EACH SIDE BLOCKING AT ALL PANEL EDGES, SIMPSON HOLD-DOWNS HD8A @ EACH END 7/8" DIA BOLT THRU STEEL BEAM TOP FLANGE NAIL SHEATHING W/ 10d @ 4" O/C EDGES 12" O/C FIELD NAIL SHEATHING INTO TOP PLATE NAIL SHEATHING INTO BOTTOM PLATE AND RIM JOIST CONNECT STUDS TO RIM JOIST WITH H6 STRAPS TJI/BLOCKING CENTERED OVER WALL, NAIL BOTTOM CHORD OF TJI/BLOCKING INTO TOP PLATE W/ 12d @ 8" O/C EACH SIDE STAGGERED
- 10H SHEAR WALL SEGMENT:
2 LAYERS OF 1/2" OSB ONE EACH SIDE BLOCKING AT ALL PANEL EDGES, SIMPSON HOLD-DOWNS HD8A @ EACH END 7/8" DIA BOLT THRU STEEL BEAM TOP FLANGE NAIL SHEATHING W/ 10d @ 4" O/C EDGES 12" O/C FIELD NAIL SHEATHING INTO TOP PLATE NAIL SHEATHING INTO BOTTOM PLATE AND RIM JOIST CONNECT STUDS TO RIM JOIST WITH H6 STRAPS TJI/BLOCKING CENTERED OVER WALL, NAIL BOTTOM CHORD OF TJI INTO TOP PLATE W/ 12d @ 8" O/C EACH SIDE STAGGERED
- 22H SHEAR WALL SEGMENT:
1 LAYERS OF 1/2" OSB EXTERIOR SIDE BLOCKING AT ALL PANEL EDGES, SIMPSON HOLD-DOWNS HD8A @ EACH END 7/8" DIA BOLT THRU STEEL BEAM TOP FLANGE NAIL SHEATHING W/ 10d @ 4" O/C EDGES 12" O/C FIELD NAIL SHEATHING INTO TOP PLATE NAIL SHEATHING INTO BOTTOM PLATE AND RIM JOIST CONNECT STUDS TO RIM JOIST WITH H6 STRAPS TJI/BLOCKING CENTERED OVER WALL, NAIL BOTTOM CHORD

BEAM CONNECTION SCHEDULE

- 1 TYPICAL COLUMN CAPS SIMPSON CC5-1/4 X 6
- 2 MASONRY BEAM HANGER SIMPSON LEG-5 W= 5 1/4" H= 12" & 14"
- 3 STRAP TIES SIMPSON MST136 (2) TOTAL ONE EACH SIDE OF BEAM
- 4 MASONRY WALL BEAM HANGER SIMPSON HUCM 610 MAX
- 5 HEADER HANGERS SIMPSON HH6 TOP & BOTTOM (2 EA END)
- 6 BEAM HANGER SIMPSON HUC610
- 7 STEEL BEAM CLIP ANGLES L4X4X5/16 W/ 6-3/4" DIA X 4-3/4" EXP ANCHORS 3 EACH CLIP ANGLE

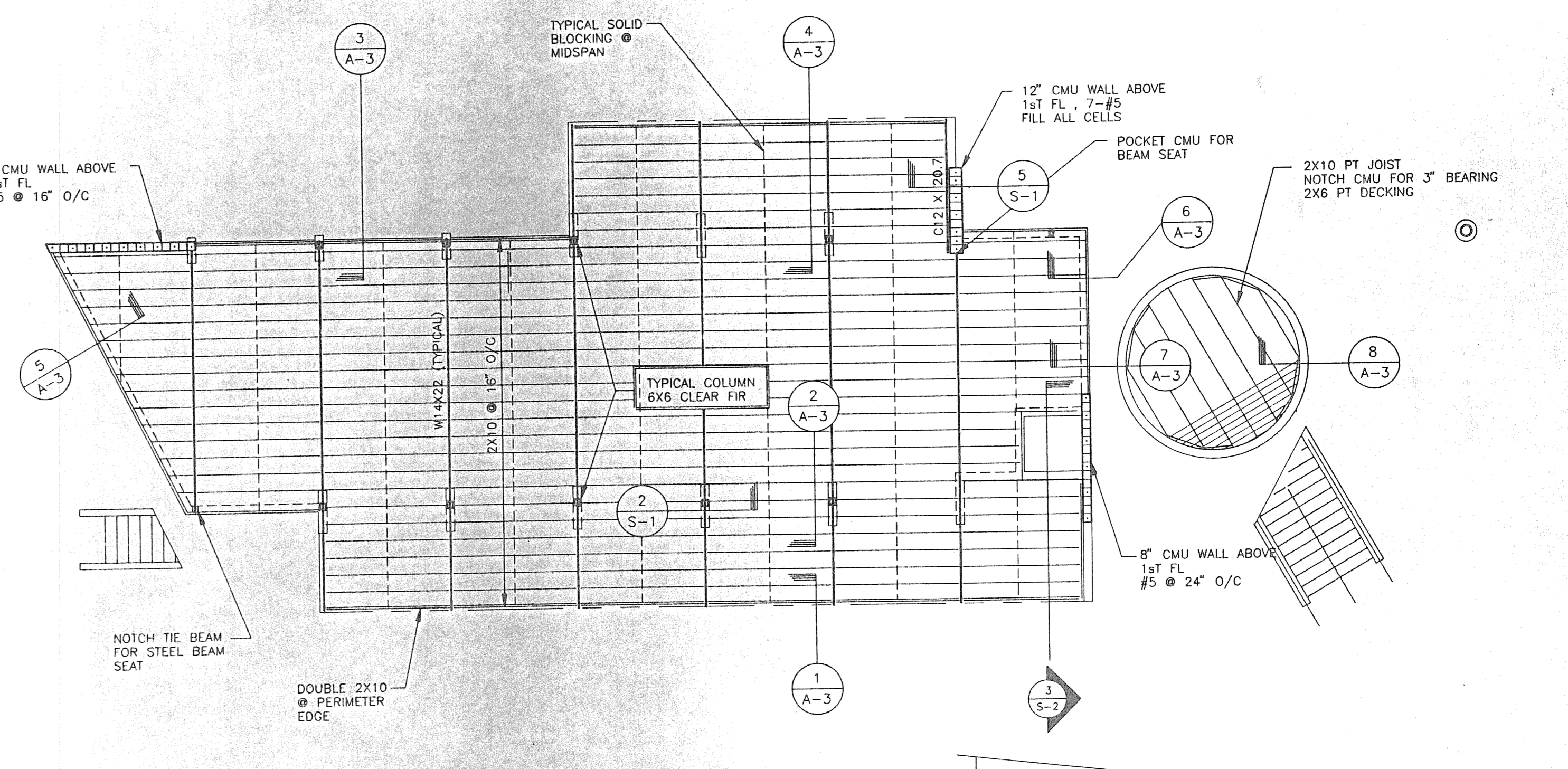
NOTE: ALL 3-PLY BEAMS ARE TO BE NAILED WITH 3 ROWS OF 16d @ 12" O/C

GENERAL NOTES:

1. REFERENCE SHEET A-2 FOR DIMENSIONS NOT SHOWN
2. TOP OF FTG EL = 4'-10" U.N.O.
3. SLAB-ON-GRADE EL = 5'-6" (REF EL = 0'-0")
4. CENTER ALL WALLS ON FOOTINGS.
5. SLAB ON GRADE IS 4" NWC (f'c=3000PSI) REINF W/6X6-W2.9WV2.9 WWF (FLAT SHEETS) SEE ARCH'L DRWS FOR CONTROL JOINT LOCATIONS
6. REINFORCE 1st LEVEL CMU WALLS AS SHOWN ON PLAN, BUT NOT LESS THAN #5 @ 40" O/C MAXIMUM, AND AT ALL CORNERS AND WALL INTERSECTIONS, GALV. HORIZONTAL JOINT REINF @ 16" O/C
7. ERECTION BRACING FOR TJI JOIST AS REQUIRED BY MANUF.
8. ALL CONNECTORS ARE TO BE SIMPSON Z-MAX COATED.
9. BRACE STRUCTURE UNTIL ALL WALL AND ROOF SHEATHING IS FULLY NAILED.

TIMBER PILE NOTES:

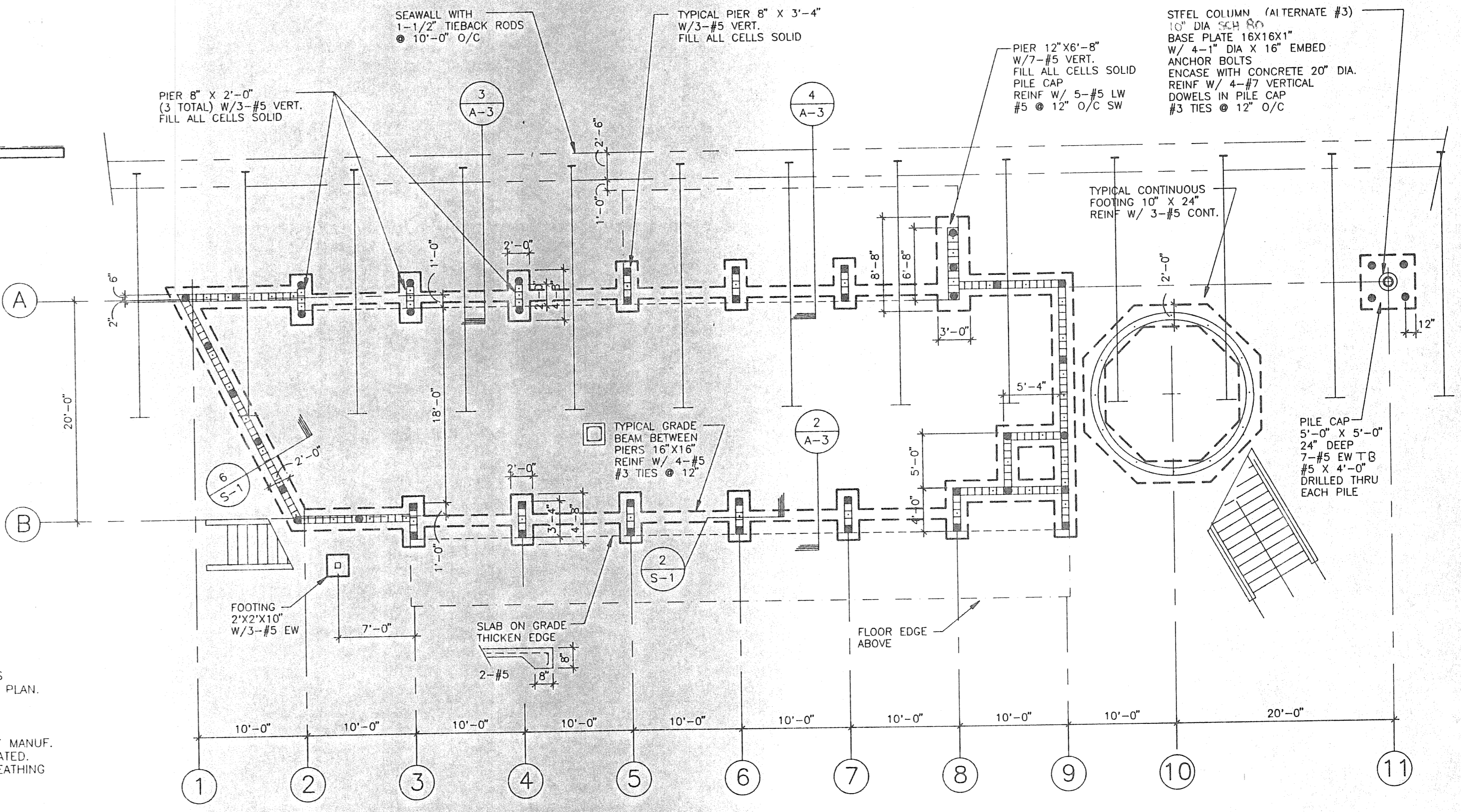
1. FOUNDATION PILING, MINIMUM 8" TIP DIAMETER DRIVEN TO AN EMBEDMENT DEPTH OF 20ft +/- FEET BELOW EXISTING GRADE, ALLOWABLE CAPACITY OF 10 TONS, REF. GEOTECHNICAL REPORT PREPARED BY GEIANCE & MATERIALS ENGINEERS, INC DATED 4/5/96
2. TIMBER PILING MATERIAL TO CONFORM WITH AWPA C3 AND ASTM D25
3. PREDRILL PILES ALONG COLUMN LINE A
4. REFERENCE SEAWALL TIEBACK DRAWINGS FOR DEADMAN LOCATIONS.



FIRST LEVEL / FRAMING PLAN
SCALE: 1/8" = 1'-0"

WALL SECTION
SCALE: 1/8" = 1'-0"

BEAM DETAIL
SCALE: 1/2" = 1'-0"



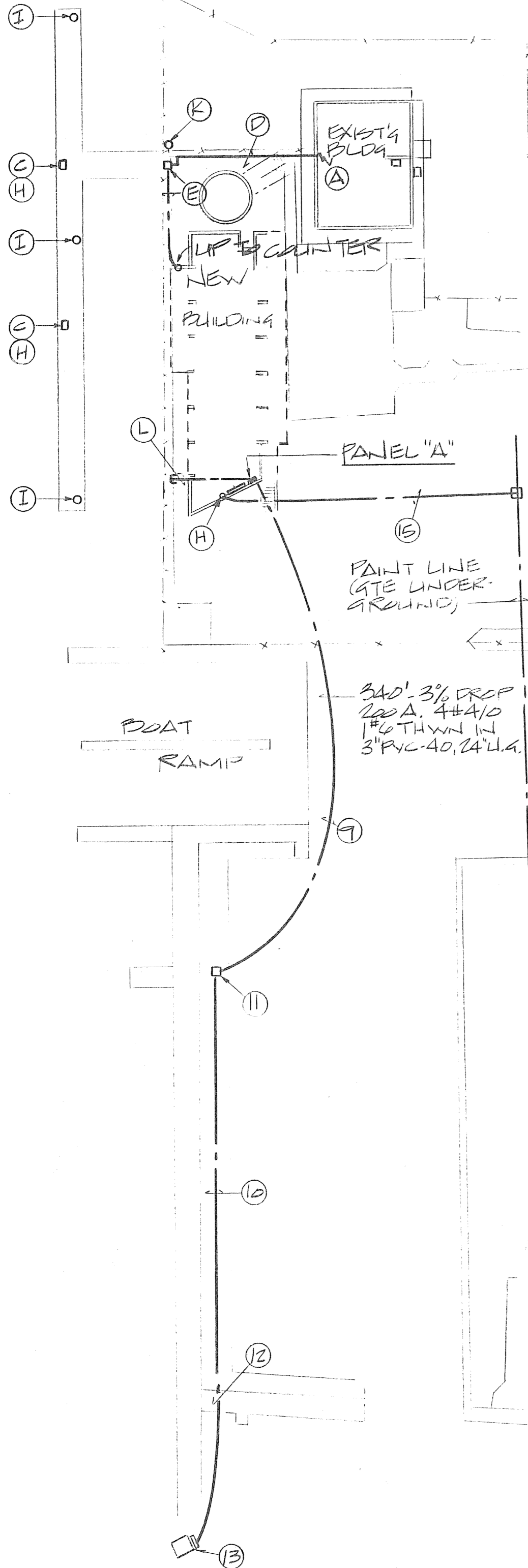
GROUND LEVEL / FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

date	5/17/96
drawn	SJF
designed	AFH
revised	
job no.	96007

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KEYED ELECTRICAL NOTES

- 1 AH-1, 1 1/2 HP FAN, 20KW HEAT, 208/3, FURNISH 30/3 DISC. SW. FU. @ 10A. FOR FAN AND 60/3 DISC. SW. FU. @ 60A. ON 6" X 6" JUNC. BOX WITH 3 #4 AND 1 #8 IN 1 1/2" PVC-40 FEED. INTERLOCK 120V. MOTORIZED DAMPER WITH AH FAN.
- 2 DUCT SMOKE DETECTOR FURNISHED AND INSTALLED BY MECH. CONTR. WIRED BY ELEC. CONTR. TO SHUT DOWN A/H FAN, WITH RELAY.
- 3 CU-1, 35 MCA, 208/3, FURNISH 60/3 - NEMA 3R DISC. SW. FU. @ 40A 3 #8 AND 1 #10 IN 1 1/4" PVC-40 FEED.
- 4 INSTALL RECEPT. WITHIN EWC HOUSING.
- 5 4" SQUARE JUNC. BOX WITH 1" EMPTY PVC-40 WITH PULL CORD UP TO RADIO ANTENNA (AS DIRECTED ON SITE) FOR ANTENNA CABLE. RUN PVC (CONCEALED) 35' UP TO ANTENNA.
- 6 4 RECEPT. FOR REFRIGERATED BOXES.
- 7 WHEELCHAIR LIFT, 1/2 HP - 120/1 WITH BATTERY BACK-UP AND CHARGER. PROVIDE 30/1-NEMA-3R-FUSED DISC. SW. WITH AUX. CONTACTS FOR BATTERIES. REFER TO MFRS. APPROVED SHOP DRAWINGS FOR LOCATION OF DISC. SW. AND ALL WIRING. INSTALL DISC. SW. 66" TO BOTTOM FOR 60" FLOOD PLANE.
- 8 75 WATT - 120/1 CEILING EXHAUST FAN. CONTROL LIGHT AND FAN WITH COMBINATION LIGHT SWITCH AND FAN TIMER FURNISHED BY MECH. CONTR., INSTALLED AND WIRED BY ELEC. CONTR.
- 9 4 #4/0, 1 #6 - THWN IN 3" PVC-40-24" U.G. CUTTING AND PATCHING OF PAVING BE GENL. CONTR. TRENCHING BY ELEC. CONTR.
- 10 AS PER NOTE #9 EXCEPT IN GRASS AREA. REPLACE GRASS SOD AS REQUIRED.
- 11 PVC-40 PULL BOX, FLUSH IN GRADE WITH 6" CONCRETE ENVELOPE AND BRASS SCREWS.
- 12 JET PVC-40 UNDER SIDEWALK.
- 13 INSTALL NEW 200A-3PH-4W-NEMA 3R. DISC. SWITCH FUSED W/ LOCKED COVER AND METER SOCKET AT EXISTING F.P.C. - 75 WVA PAD MOUNTED TRANSFORMER, AS PER F.P.C. REQUIREMENTS. REMOVE RUST AND PATCH EXISTING. TROUGH WITH GALVANIZED STEEL. PAINT WITH 2 COATS OF RUSTOLEUM.
- 14 TELE. TERM. BOARD, 4' X 4' X 3/4" MARINE PLYWOOD PAINTED GREY. 66" TO BOTTOM. PROVIDE #6 CU. GRN. IN 1/2" PVC-40 TO PANEL "A" SERVICE GROUND.
- 15 TELEPHONE ENTRANCE: 2" PVC-40 WITH PULL CORD, 24" U.G. TERMINATE AT EXISTING BURIED 50 PAIR TELE. CABLE AS DIRECTED BY G.T.E.
- 16 PROVIDE NUTONE #IK-15 DOOR COM SYSTEM. POLYCARBONATE WEATHERPROOF PUSH BUTTON/SPEAKER UNIT-C/L 48" AT LIFT DOOR AND CHIME/SPEAKER UNIT AND 16V. TRANSFORMER AT RECEPTION DESK. WIRING IN PVC-40 AT UNDERSIDE OF FIRST LEVEL FLOOR AND CONCEALED IN WALLS.
- 17 PHOTOCCELL - HUBBELL #PTA-1. ON SIDE OF ROOF FACIA.



SITE PLAN - ELECTRICAL
SCALE: 1"=30'-0"

- ADDITIONAL KEYED NOTES**
- A FURNISH, INSTALL AND WIRE A #TMS-806 MONITOR LOCATED AT EXISTING SHIPS STORE COUNTER (FOR 2 EXISTING FUEL PUMPS). RELOCATE MONITOR TO NEW SHIPS STORE COUNTER AT COMPLETION OF PROJECT.
 - B PROVIDE 110V. PULSER AT EACH PUMP. TEMPORARILY CONNECTION TO EXISTING DOCK RECEPTACLE CIRCUIT.
 - C ROUTE MONITOR WIRING IN PVC-40 UNDER DOCK AND ALONG CONSTRUCTION FENCE LINE TO EXISTING COUNTER (B) INSTALL PVC-40 1" B AND PVC-40-24" U.G. WITH MONITOR WIRING TO NEW COUNTER (A).
 - D MONITOR SYSTEM AND INSTALLATION AVAILABLE FROM JERRY SPETZ OF ADAMS TANK AND LIFT (813) 546-0558, PINELLAS PARK. SEE NOTE (H)
 - E COORDINATE ALL FUEL PUMP WORK WITH PLUMBING CONTRACTOR.
 - F EXISTING FUEL PUMPS: EXISTING WIRING TO TEMPORARILY REMAIN. INSTALL NEW WIRING TO NEW PANEL "A". 3 #10-THWN IN 3/4" PVC-40, 24" U.G. IN GRASS AREA NEXT TO SEAWALL, CIRCUIT A-18, 20 (30/2) 3-2" PVC-40 FROM PANEL "A", 24" U.G. STUB AND CAP (WITH PULL CORD) IN GRASS AREA, NEXT TO SEAWALL, FOR FUTURE.
 - H

SYMBOLS		
S	S.P.-20A-WALL SWITCH	C/L 48"
E	DUPLEX RECEPT.-20A-GRND TYPE	C/L 18" OR AS NOTED
---	EMT-OVERHEAD-FIRST LEVEL RUN SQUARE WITH BUILDING LINES	EXPOSED
---	PVC-40-UNDERSIDE OF FIRST LEVEL FLOOR. RUN SQUARE WITH BUILDING LINES	EXPOSED
---	PVC-40 UNDER GROUND	CONCEALED
---	EMT ABOVE CEILING	CONCEALED
⊗	TELEPHONE BACK BOX WITH 3/4" EMPTY PVC-40, THRU FIRST LEVEL FLOOR. WITH BUSHING AND PULL CORD	C/L 18" OR AS NOTED
⊠	HEAVY DUTY DISC. SWITCH WITH DUAL-ELEM./TIME DELAY FUSES	
WF	WEATHERPROOF	
4FI	GROUND FAULT INTERRUPTING	

NEW PANEL "A"

SQUARE D #NQOD-42P-120/208V-3PH-4W-S/N-SURFACE-66" TO BOTTOM

1-200/3	MAIN BREAKER
4-20/1	LIGHTS
1'-20/1	RECEPTACLES
1-30/1	DOCK LIGHTS AND RECEPTACLES
3-30/2	FUEL PUMPS AND BAITWELLS
1-40/3	CONDENSING UNIT
1-70/3	AIR HANDLER FAN AND HEAT
4-20/1	SPARES
1-1P	SPACES

LOAD RECAP

6.2 KW LIGHTS
13.0 KW RECEPTACLES
10.2 KW FUEL PUMPS AND BAITWELL
22.4 KW AIR HANDLER FAN AND HEAT
8.2 KW FUTURE

60.0 KW = 166 AMPS
NEW 200 AMP SERVICE PROVIDED

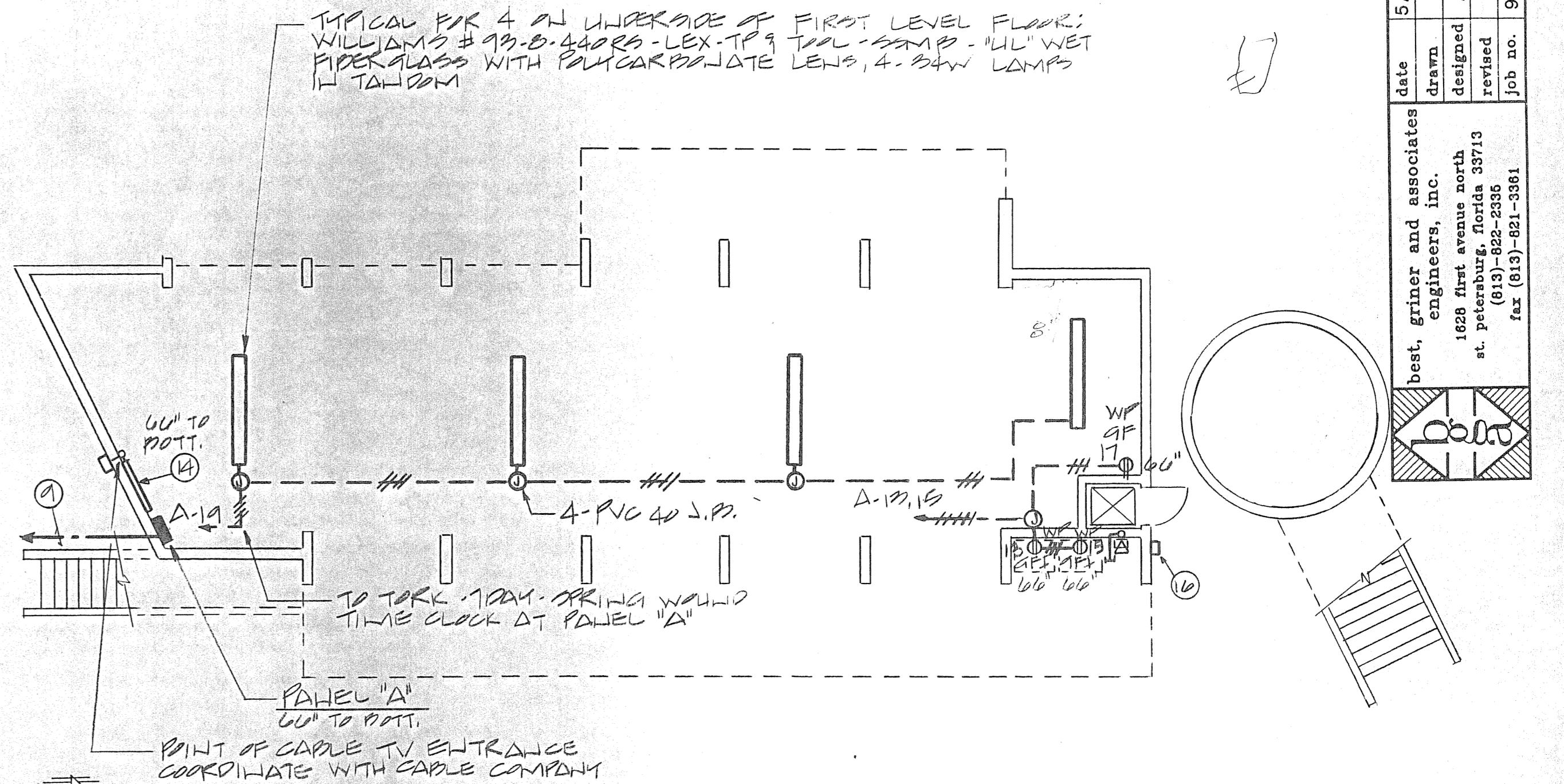
FIXTURES		
A	WILLIAMS #8228-WGBLK-BLACK WIRE GUARD-2 SWIVEL CANOPIES AND TONG HANGERS, TWO R.C. WHITE ENAMEL HANGER RODS. SUSPEND TO BELOW A/C DUCT. 10'-0"± TO. BOTT. OF FIXT.	8-34W-CW-IN TANDEM INDUSTRIAL WITH NO UPLIGHT WITH END PLATES.
B	SAME AS "A" EXCEPT 4' AND 8'-0" TO BOTTOM	4-34W-CW.
C	WILLIAMS EPF-S122-RWKA110	2-34W.-CW. 1' X 4' - ACRYLIC RECESSED W/ FLANGE
D	WILLIAMS #7622	2-34W-CW. 4' BARE LAMP STRIP ON WALL ABOVE DOOR
E	REGGIANI #8343 W/ GASKETED TEMPERED LENS. CAST ALUM. TRIM AND HOUSING	1-150W. HQI-SE ADJUSTABLE RECESSED
F	WILLIAMS #WM90-PGR-PC-GMF W/WGI - GUARD. CAST ALUM. HOUSING, GASKETED, BOROSILICATE GLASS LENS	1-100W.-MH/MED/C/U WALL UNIT W/PHOTO CELL CENTERED ABOVE DOOR
X	SURE-LITES #CCX-5-1-70-R-WH	SW-F5TT-FLUOR. EXIT LIGHT W/ BATTERY ON WALL-CENTER ABOVE DOUBLE DOORS AND TOP 6' 8" NEXT TO MAIN ENT. DOOR.
Y	SURE-LITES #CC-4	2-9W INCAND #29-84 EGRESS BATTERY UNIT ON WALL-C/L 84"

NOTES:

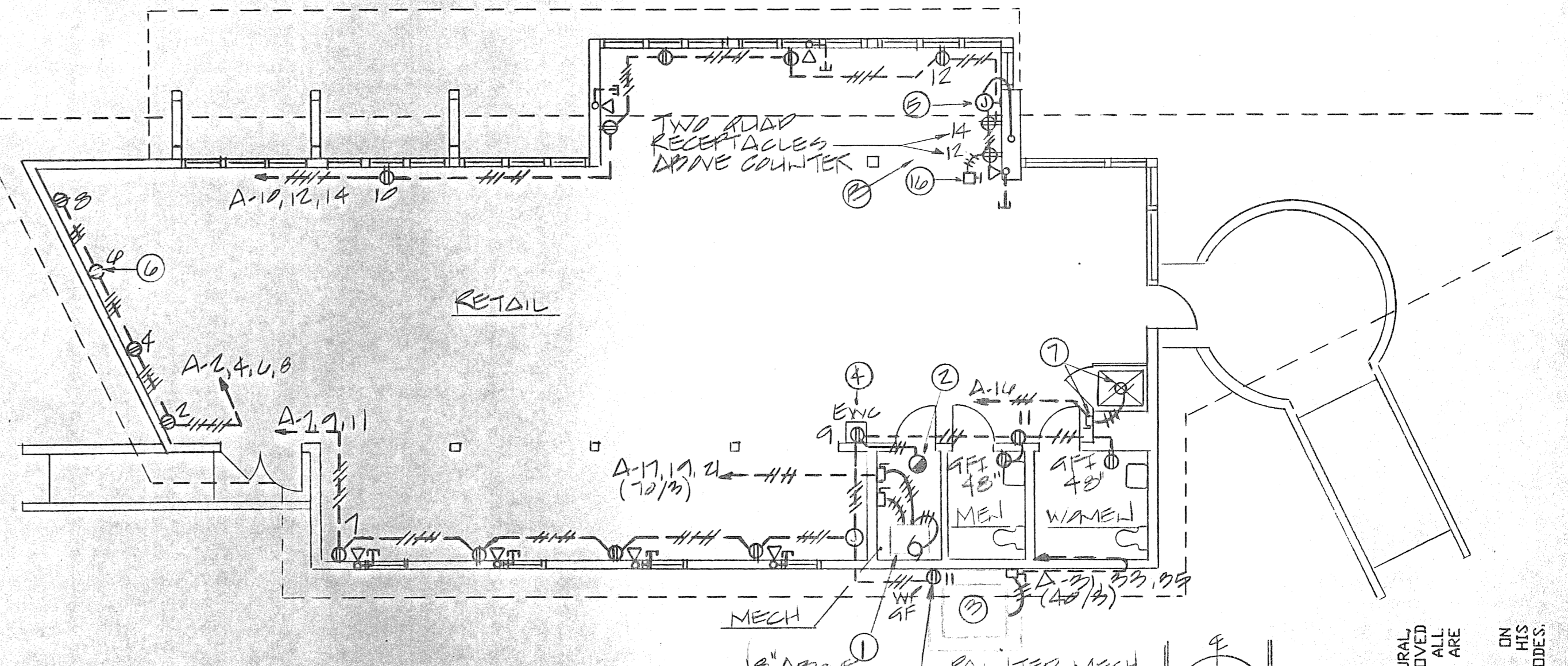
1. EQUAL QUALITY AND APPEARANCE FIXTURES MAY BE SUBMITTED FOR APPROVAL.
2. ALL FIXTURES SHALL BE 120V-HPF-FUSED
3. FLUORESCENT FIXTURES SHALL HAVE ENERGY SAVING LAMP AND BALLASTS.

ELECTRICAL SPECIFICATIONS

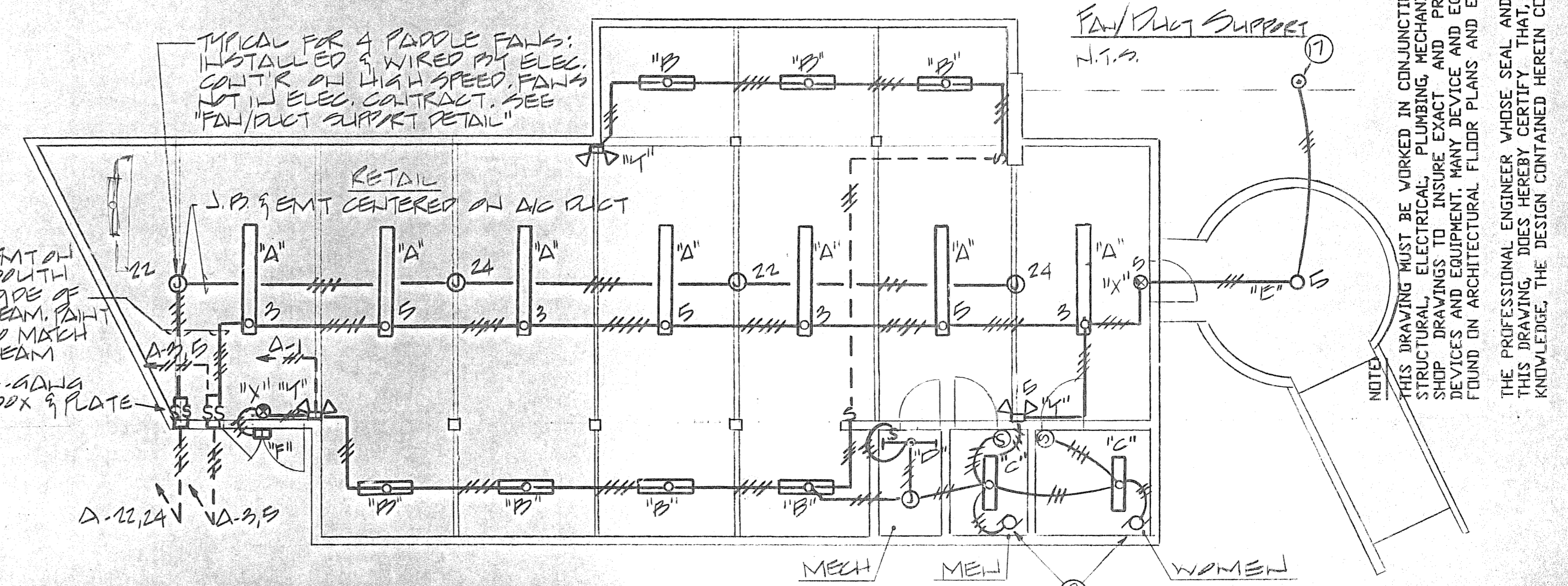
- 1 ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND THE LATEST EDITION OF THE N.E.C.
- 2 ALL WORK AND MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER'S ACCEPTANCE.
- 3 ALL MATERIAL SHALL BE U.L. LABELED.
- 4 CONDUCTORS SHALL BE COPPER THHN-THWN, #12 AWG MINIMUM IN RACEWAY WITH GREEN GROUND/BOND WIRE.
- 5 ALL DEVICES SHALL BE FLUSH MOUNTED, IVORY WITH SMOOTH PLASTIC IVORY PLATES.
- 6 LIGHT SWITCHES AND RECEPTACLES SHALL BE 20A-FLUSH MOUNTED, ARROW HEART, LEVITON OR HUBBELL, SPECIFICATION GRADE.
- 7 PANEL AND DISCONNECT SWITCHES SHALL BE SQUARE D, G, E OR SEIMENS.
- 8 ALL ELECTRICAL WORK SHALL BE INSTALLED ABOVE THE 60" FLOOD PLANE.
- 9 KEEP A DAILY RECORD OF "AS-BUILT" DRAWINGS AND SUBMIT TWO REPRODUCIBLE SETS TO OWNER AT COMPLETION OF PROJECT.
- 10 SUBMIT 7 COPIES OF SHOP DRAWINGS FOR ARCHITECT, ENGINEER AND OWNER REVIEW AND APPROVAL; PANEL, DISCONNECT SWITCHES, DEVICES, LIGHT FIXTURES.
- 11 CONTRACTOR SHALL VISIT SIGHT DURING BIDDING PERIOD TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
- 12 CONTRACTOR SHALL USE EXTREME CARE WHEN TRENCHING TO AVOID ANY DAMAGE TO EXISTING UNDERGROUND CONDUIT OR PIPING. REFER TO CIVIL/SURVEY DRAWINGS WHICH MAY NOT BE ALL INCLUSIVE.



GROUND LEVEL PLAN - POWER
SCALE: 1/8"=1'-0"



FIRST LEVEL PLAN - POWER
SCALE: 1/8"=1'-0"

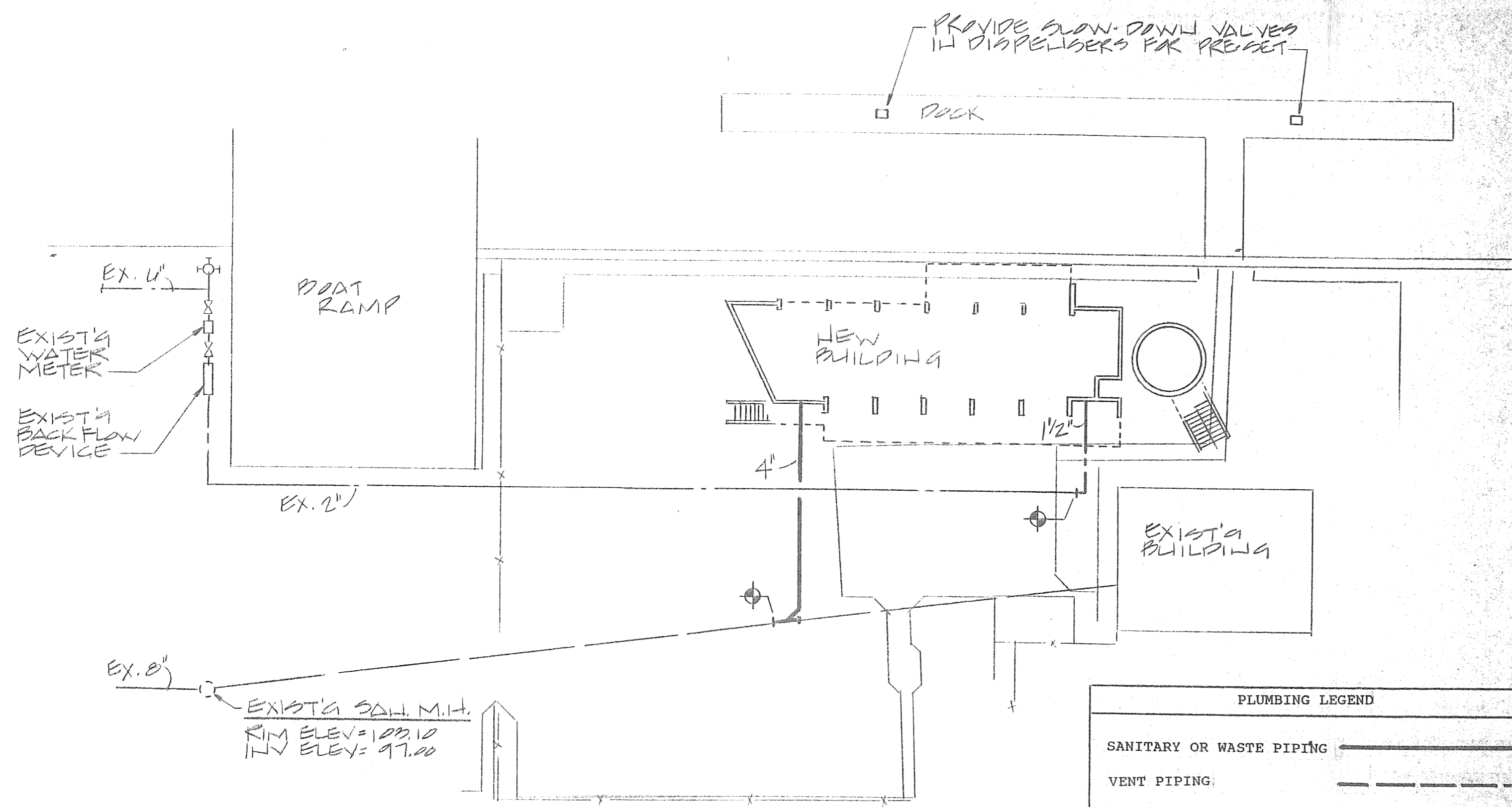


FIRST LEVEL PLAN - LIGHTING
SCALE: 1/8"=1'-0"

NOTES:

THIS DRAWING MUST BE WORKED IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ALL APPROVED SHOP DRAWINGS TO INSURE EXACT AND PROPER LOCATION OF ALL DEVICES AND EQUIPMENT. MANY SERVICE AND EQUIPMENT LOCATIONS ARE FOUND ON ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.

THE PROFESSIONAL ENGINEER WHOSE SEAL AND SIGNATURE APPEAR ON THIS DRAWING, DOES HEREBY CERTIFY THAT, TO THE BEST OF HIS KNOWLEDGE, THE DESIGN CONTAINED HEREIN COMPLIES WITH ALL CODES.

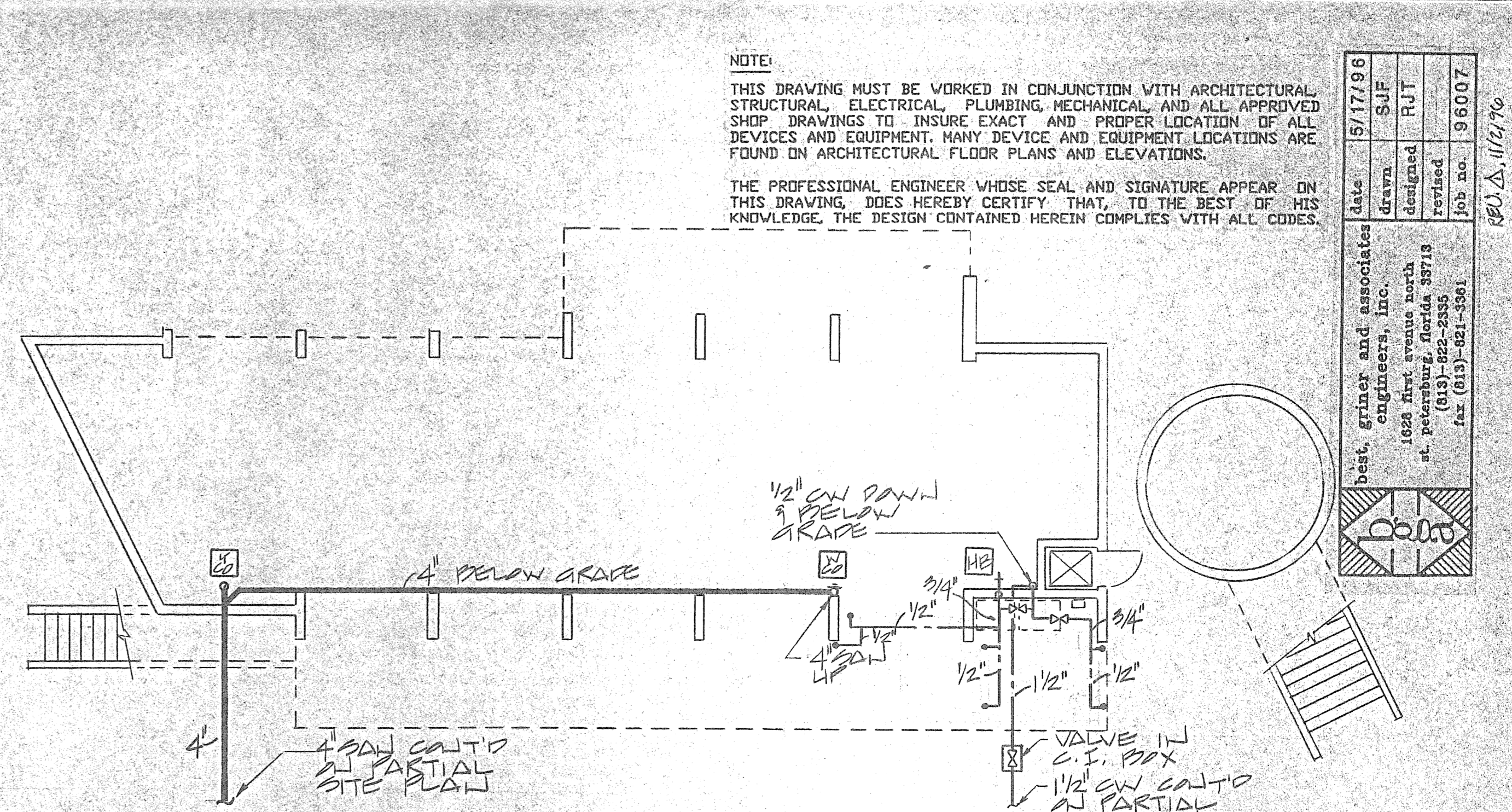


PARTIAL SITE PLAN - PLUMBING
SCALE 1"=20'-0"

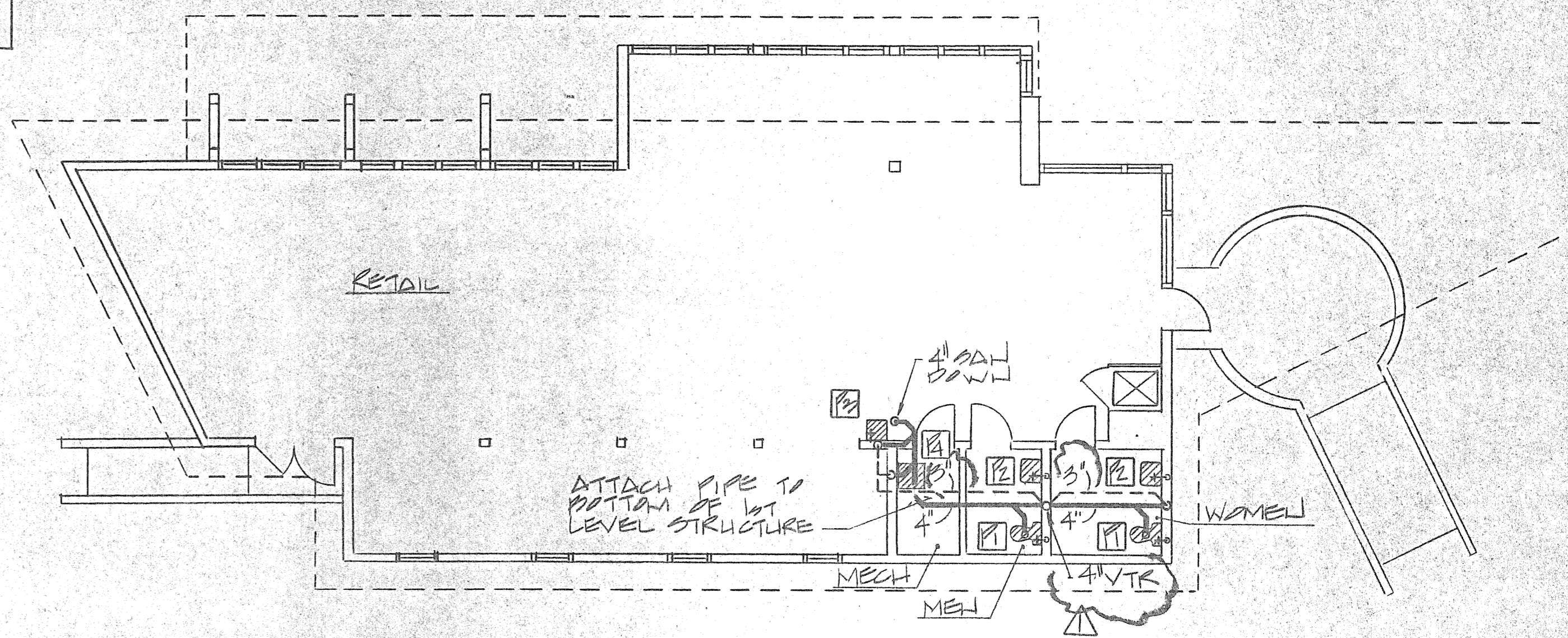
PLUMBING LEGEND	
SANITARY OR WASTE PIPING	—
VENT PIPING:	- - -
COLD WATER PIPING:	—
VENT THRU ROOF	VTR
FIXTURE DESIGNATION	⊕
POINT OF CONNECTION	⊙

PLUMBING SPECIFICATIONS

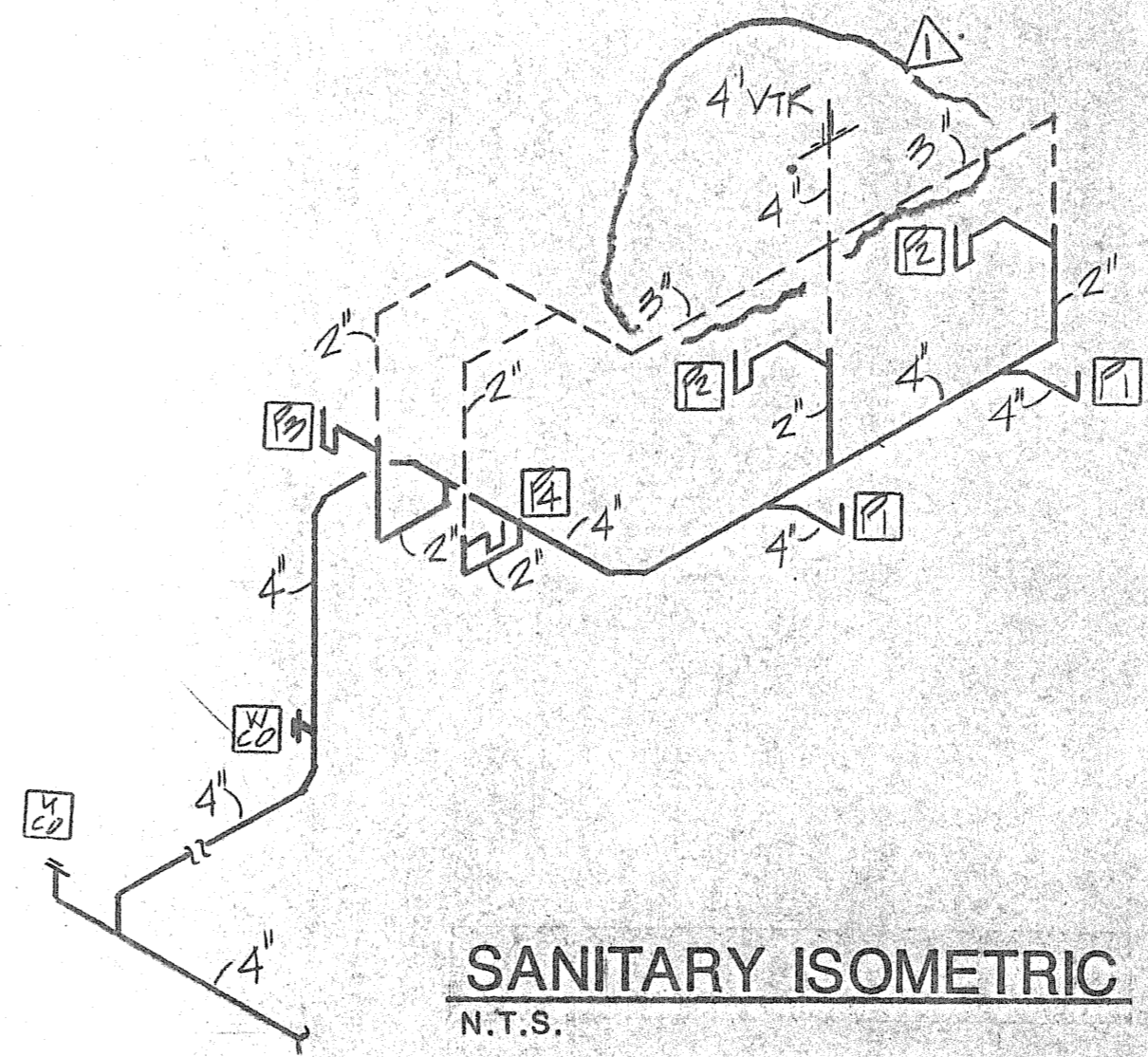
- GENERAL**
 - THE REQUIREMENTS OF THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS SHALL APPLY TO ALL PLUMBING WORK. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD PLUMBING CODE AND ALL LATEST AMENDMENTS THERETO.
 - THE WORK COVERED BY THIS SECTION OF THE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL PLUMBING WORK SHOWN ON THE DRAWINGS AND SPECIFIED. ALL WORK SHALL BE NEW AND RE-USE OF ANY EXISTING SERVICES OR MATERIALS IS PROHIBITED. MATERIALS OR PRODUCTS SPECIFIED BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS THEY ARE SUBMITTED FOR REVIEW PRIOR TO USE AND APPROVED BY THE ARCHITECT.
 - ALL MATERIALS AND EQUIPMENT SHALL BE THE STANDARD CATALOGED PRODUCT OF A REPUTABLE MANUFACTURER REGULARLY MANUFACTURING THE PARTICULAR ITEM, FREE FROM DEFECTS AND IN NEW CONDITION.
- SUBSTITUTIONS**
 - MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS THEY ARE SUBMITTED FOR REVIEW PRIOR TO BID DATE.
- WORK BY OTHERS**
 - THE FOLLOWING SYSTEMS AND/OR EQUIPMENT ARE NOT A PART OF THIS SECTION, BUT SHALL BE PROPERLY CONNECTED WITH ALL PLUMBING SERVICES:
ELECTRICAL POWER WIRING BY ELECTRICAL SUB-CONTRACTOR.
- PIPING**
 - SOIL, WASTE AND VENT PIPING:**
ABOVE FLOOR: INTERIOR ABOVE FIRST FLOOR SLAB SHALL BE SCHEDULE 40 POLYVINYLCHLORIDE PIPE WITH PVC SOLVENT WELDED FITTINGS.
BELOW FLOOR: INTERIOR BELOW FLOOR AND UP TO A POINT FIVE FEET (5') BEYOND BUILDING WALLS SHALL BE POLYVINYLCHLORIDE PIPE WITH ELASTOMERIC SEAL JOINTS.
BELOW GRADE: EXTERIOR BELOW GRADE FROM A POINT FIVE FEET (5') BEYOND BUILDING WALLS SHALL BE CAST IRON SOIL PIPE WITH LEAD AND OAKUM JOINTS.
 - DOMESTIC WATER PIPING:**
SERVICE LINE: SERVICE LINE UP TO A POINT FIVE FEET (5') BEYOND BUILDING WALLS SHALL BE COPPER, TYPE "K" RIGID PIPE WITH WROUGHT COPPER SOLDER FITTINGS.
INTERIOR ABOVE AND BELOW FLOOR: UP TO A POINT FIVE FEET (5') BEYOND BUILDING WALLS SHALL BE COPPER, TYPE "L" RIGID TUBE WITH WROUGHT COPPER FITTINGS.
- VALVES**
 - EQUAL TO NIBCO, CRANE OR WALWORTH. ALL BRONZE 150 LB. GATE VALVES WITH RISING STEMS.
 - VALVE BOXES:** ALL SHUT OFF VALVES IN OUTSIDE UNDERGROUND LINES SHALL BE PROVIDED WITH ADJUSTABLE CAST IRON VALVE BOXES HAVING A COVER SECURED WITH A BRASS CAP SCREW. THE BOXES SHALL BE SIMILAR AND EQUAL TO DIXIE FOUNDRY COMPANY OF TAMPA, FLORIDA. THE COVER SHALL BE SET FLUSH WITH FINISHED GRADE AND APPROPRIATELY LABELLED "WATER".
- SPECIALITIES**
 - PIPE PROTECTIVE COATING:** FOR STEEL OR COPPER PIPE, PERMACEL OR SCOTCHWRAP VINYL TAPE APPLIED OVER PIPE TO A TOTAL MINIMUM THICKNESS OF 20 MILS. APPLY TO ALL WATER PIPE IN CONTACT WITH MASONRY OR CONCRETE.
- INSTALLATION**
 - INSTALL PIPE ABOVE GROUND PLUMB AND SQUARE WITH BUILDING LINES, ADEQUATELY SUPPORTED WITHOUT SAGS OR HIGH POINTS. CONCEAL PIPING IN OCCUPIED AREAS AND MAINTAIN HEADROOM AND ACCESS SPACE IN UNFINISHED AREAS. SLEEVE PIPING THROUGH ALL WALLS, SLABS OR PARTITIONS WITH ESCUTCHEONS AT ALL FINISHED SURFACE. PROVIDE UNIONS AT ALL FINAL CONNECTIONS AND STOPS ON ALL SUPPLIES. ALL PIPE OPENINGS SHALL BE PLUGGED DURING INSTALLATION.
- DISINFECTION OF POTABLE WATER SYSTEM**
 - THE SYSTEM SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALLOWED TO STAND SIX HOURS BEFORE FLUSHING AND RETURNING TO SERVICE. DISINFECTION PROCEDURE AND RESULT SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL PLUMBING INSPECTOR.
- FIXTURES AND TRIM**
 - ALL EXPOSED METAL TO BE CHROME PLATED. PROVIDE STOPS AND UNIONS AT ALL SUPPLIES AND CAST BRASS 'P' TRAPS WITH CLEAROUT ON ALL WASTES.
 - FIXTURES BY ELJER, KOHLER, AMERICAN-STANDARD OR BRIGGS ARE APPROVED.
- TESTS**
 - ALL SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD PLUMBING CODE. ALL TESTS SHALL BE APPROVED BY THE LOCAL PLUMBING INSPECTOR AND SHALL BE OBSERVED BY A REPRESENTATIVE OF THE ARCHITECT.
- SPECIFICATIONS AND DRAWINGS**
 - THE PLANS SHOW THE LOCATION OF ALL FIXTURES AND EQUIPMENT AND ARE INTENDED TO DEPICT THE GENERAL INTENT OF THE WORK IN SCOPE, LAYOUT AND QUALITY OF WORKMANSHIP. THEY ARE NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES INTENDED FOR THE PURPOSE OF EXECUTION OF THE WORK, BUT SHALL BE UNDERSTOOD THAT SUCH DETAILS WILL BE PART OF THIS WORK.
 - WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING SUCH CONFLICT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING IN COLORED PENCIL ON BLACK LINE PRINTS ANY DEVIATIONS FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSIONS OF BURIED UTILITY LINES FROM BUILDING WALLS.
- SHOP DRAWINGS**
 - FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT OR FIXTURES FOR APPROVAL PRIOR TO PURCHASING.
 - PIPE HANGERS:** HANGERS FOR BARE COPPER PIPE THROUGH 4 INCH DIAMETER SHALL BE ADJUSTABLE RING TYPE, PLASTIC CORND EQUAL TO MICHIGAN 102A, FOR STEEL PIPE MICHIGAN NO. 100.
 - DRAINS AND CLEANOUTS:** SEE SCHEDULE ON DRAWINGS.
 - DIELECTRIC UNIONS:** ERCO OR CAPITOL AT ALL POINTS OF CONNECTION BETWEEN DISSIMILAR PIPE METALS.
 - FLASHINGS AND VENT STACKS:** ALL VENTS EXTENDING THROUGH THE ROOM SHALL BE PROVIDED WITH FOUR POUND SHEET LEAD FLASHINGS EXTENDING UPWARD AROUND THE PIPE AND TURNED DOWN INSIDE THE PIPE.
 - AIR CHAMBERS:** AT EACH FIXTURE AND ELSEWHERE AS REQUIRED, PROVIDE AIR CHAMBERS ON WATER SUPPLY LINES FOR PREVENTION OF WATER HAMMER. CHAMBERS SHALL BE FULL SIZE OF THE PIPE BEING PROTECTED, NOT LESS THAN 24" LONG.
 - ESCUTCHEONS AND SLEEVES:** WHERE PIPES PIERCE EXPOSED PARTITIONS, FLOORS, WALLS OR CEILINGS, PROVIDE CHROME PLATED ESCUTCHEONS TO COVER THE RAW EDGE.
SLEEVES SHALL BE PROVIDED AT ALL PIPE PENETRATIONS OF MASONRY AND CONCRETE WALLS AND FLOORS.



GROUND LEVEL PLAN - PLUMBING
SCALE: 1/8"=1'-0"



FIRST LEVEL PLAN - PLUMBING
SCALE: 1/8"=1'-0"



SANITARY ISOMETRIC
N.T.S.

NOTE:
THIS DRAWING MUST BE WORKED IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, MECHANICAL, AND ALL APPROVED SHOP DRAWINGS TO INSURE EXACT AND PROPER LOCATION OF ALL DEVICES AND EQUIPMENT. MANY DEVICE AND EQUIPMENT LOCATIONS ARE FOUND ON ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.
THE PROFESSIONAL ENGINEER WHOSE SEAL AND SIGNATURE APPEAR ON THIS DRAWING, DOES HEREBY CERTIFY THAT, TO THE BEST OF HIS KNOWLEDGE, THE DESIGN CONTAINED HEREIN COMPLIES WITH ALL CODES.

Date	5/17/96
Drawn	SUF
Designed	RUT
Revised	
Job no.	96007

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tel. (813)-621-3361

PLUMBING FIXTURE SCHEDULE	
P-1	WATER CLOSET (HANDICAPPED): AMERICAN-STANDARD 2216.143, FLOOR MOUNTED, 18" HIGH ELONGATED BOWL, TANK TYPE, 1.6 GPF, BENEKE S23SS OPEN FRONT SEAT LESS COVER.
P-2	LAVATORY (HANDICAPPED): AMERICAN-STANDARD 0355.012, VITREOUS CHINA, WALL HUNG, 20" X 18", 4" CENTERS, MOEN 8425 LEVER HANDLE FAUCET WITH GRID STRAINER, OFFSET WASTE AND PROVIDE PRE-FORMED INSULATING KIT.
P-3	ELECTRIC WATER COOLER (HANDICAPPED): ELKAY EBFA-8, WALL HUNG 8 GPM CAPACITY.
P-4	MOP RECEPTOR: FIAT TSB-100, FLOOR MOUNTED, TERRAZZO, 24" X 24" X 12", STAINLESS STEEL CAPS, 830-AA FAUCET, 889-CC MOP HANGER.

FIXTURE CONNECTION SCHEDULE					
MARK	DESCRIPTION	WASTE	VENT	CW	HW
P-1	WATER CLOSET	4"	2"	1/2"	-
P-2	LAVATORY	4"	2"	1/2"	-
P-3	EWC	1 1/4"	1 1/4"	1/2"	-
P-4	MOP RECEPTOR	2"	2"	1/2"	-

CENTRAL YACHT BASIN MARINA

FOR THE

CITY OF ST. PETERSBURG
FLORIDA

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

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

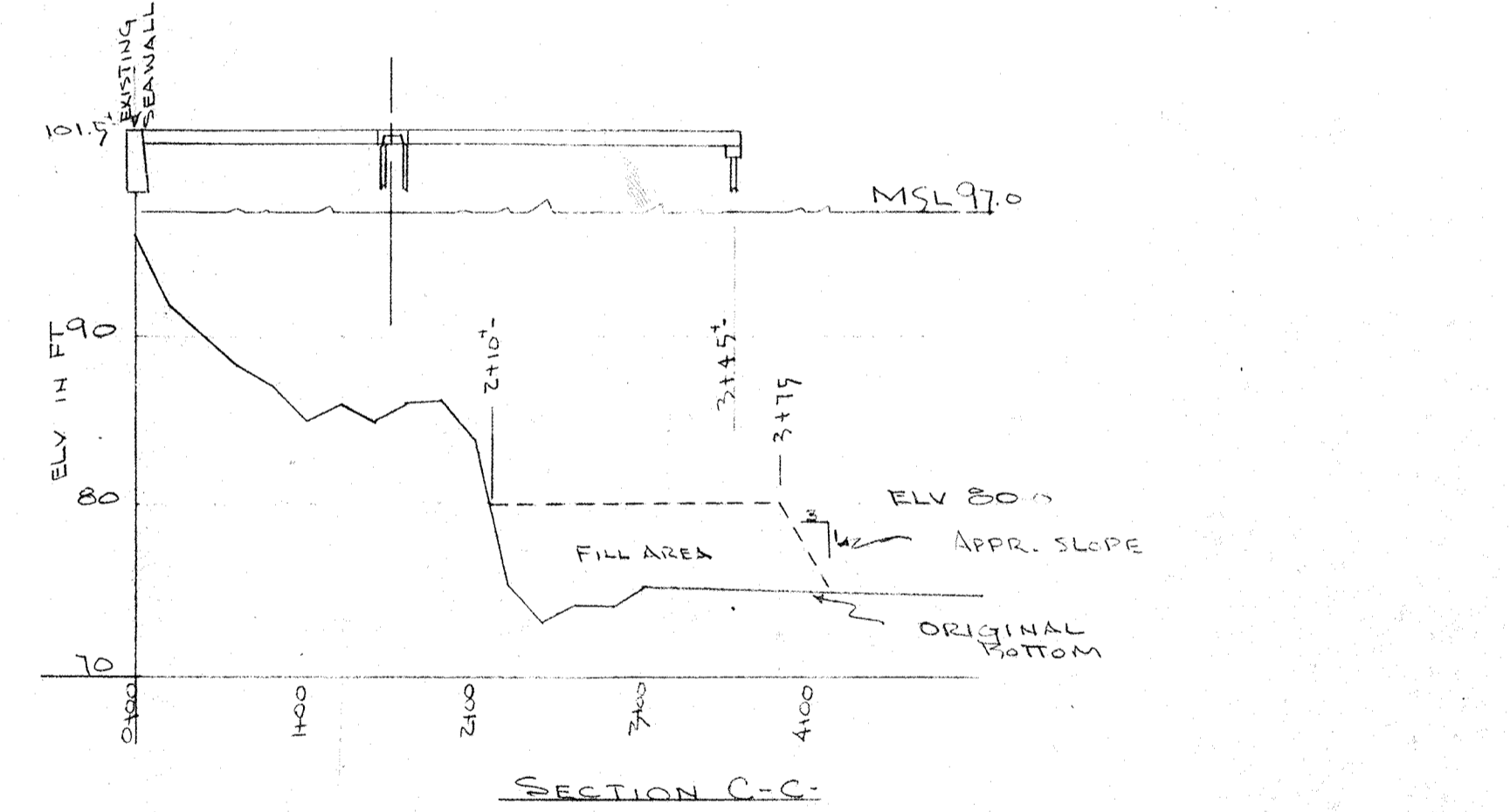
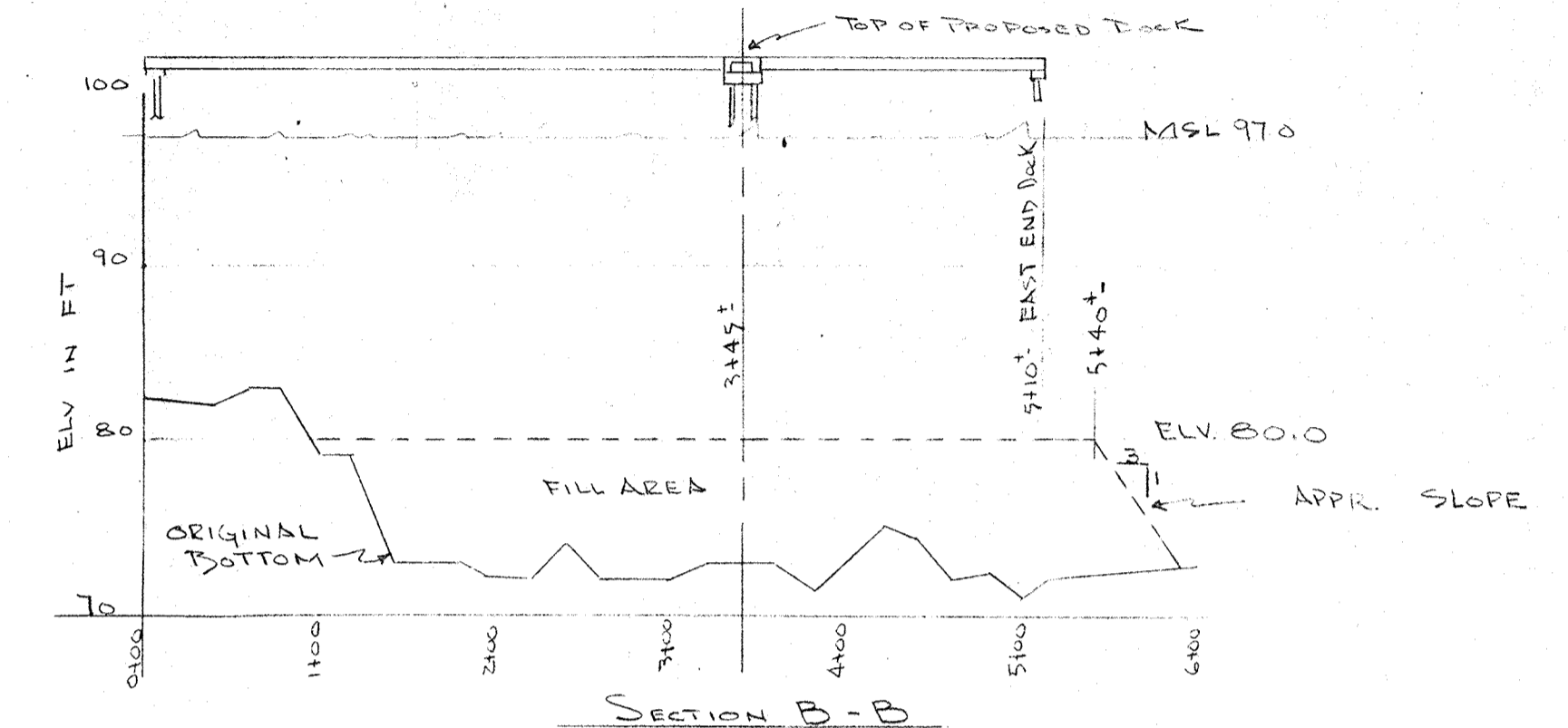
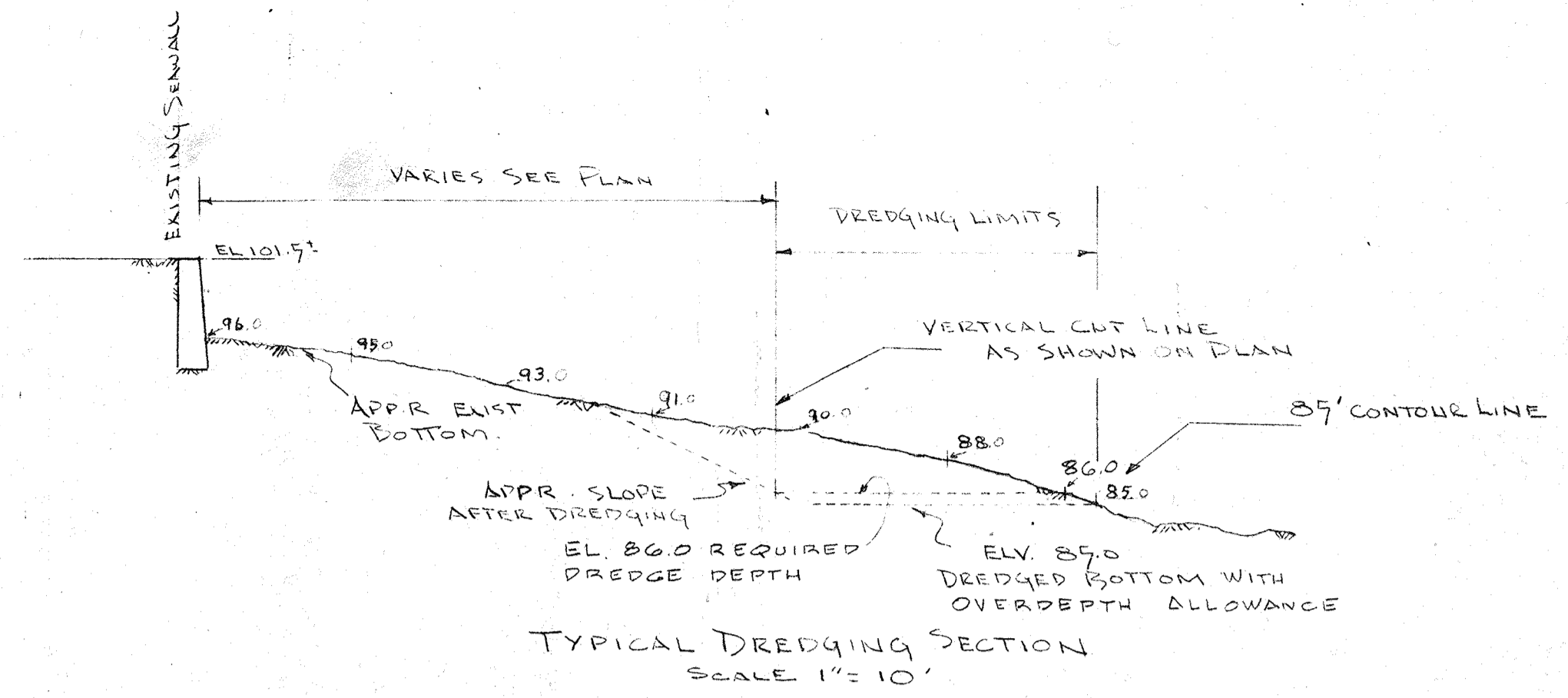
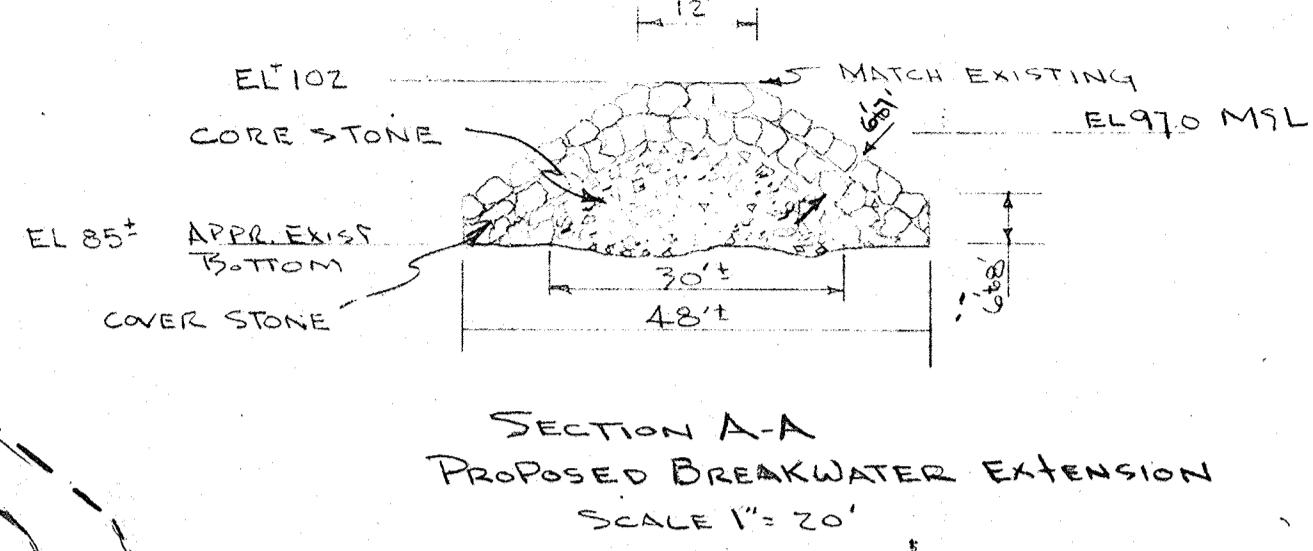
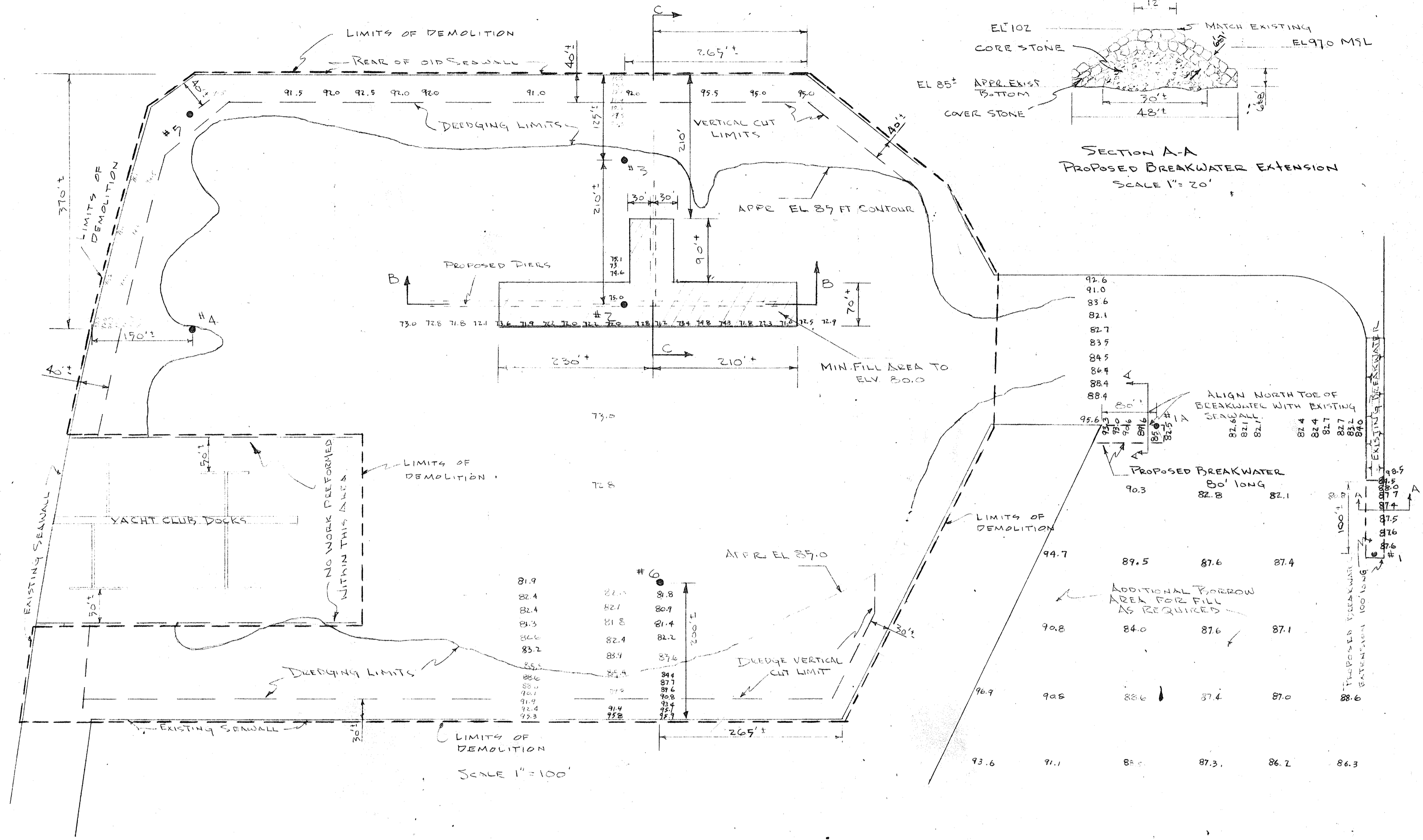
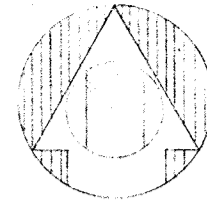
RADER AND ASSOCIATES - ENGINEERS & ARCHITECTS
611 FIRST AVENUE, NORTH ST. PETERSBURG, FLORIDA

SCHEDULE OF DRAWINGS

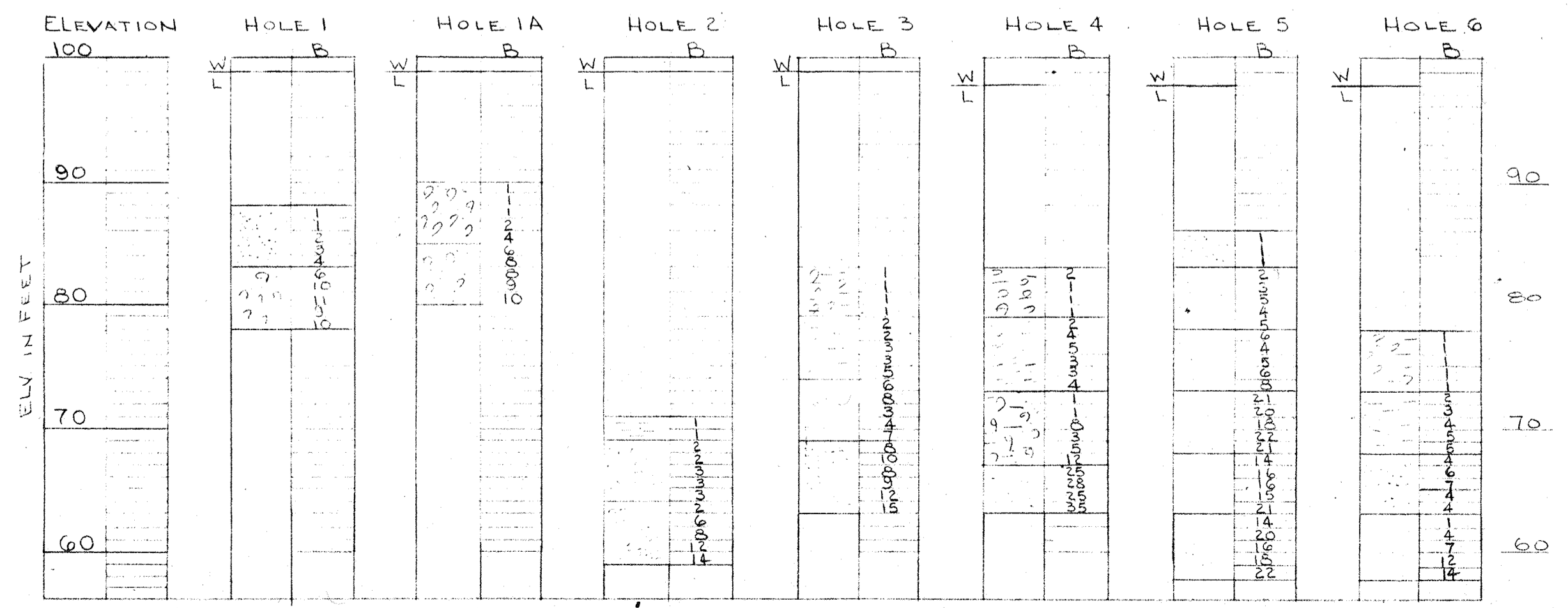
FILE NO.	SHEET NO.	TITLE
SP4506-101	1	COVER SHEET
SP4506-102	2	DREDGING AND BREAKWATER - PLANS AND DETAILS
SP4506-103	3	SLIP LAYOUT PLAN
SP4506-104	4	DECK FRAMING AND PILE PLAN - NORTH WALL
SP4506-105	5	DECK FRAMING AND PILE PLAN - WEST WALL
SP4506-106	6	COVERED SLIPS - SOUTH WALL - PLAN, ELEVATIONS AND SECTIONS
SP4506-107	7	COVERED SLIPS - SOUTH WALL - PLAN, ELEVATIONS AND SECTIONS
SP4506-108	8	COVERED SLIPS - SOUTH WALL - SECTIONS AND DETAILS
SP4506-109	9	PIER ASSEMBLY DETAILS
SP4506-110	10	MOORING HARDWARE AND FENDERS - PLANS AND DETAILS
SP4506-111	11	CENTRAL FACILITIES BUILDING - ARCHITECTURAL - PLANS AND SECTIONS
SP4506-112	12	CENTRAL FACILITIES BUILDINGS - ARCHITECTURAL - ELEVATIONS AND DETAILS
SP4506-113	13	CENTRAL FACILITIES BUILDINGS - STRUCTURAL - PLANS AND DETAILS
SP4506-114	14	HARBOR MASTER OFFICE - PLANS AND DETAILS
SP4506-115	15	HARBOR MASTER OFFICE - ELEVATIONS AND SECTIONS
SP4506-116	16	YACHT BROKER OFFICES - ARCHITECTURAL - PLANS AND DETAILS
SP4506-117	17	YACHT BROKER OFFICES - ARCHITECTURAL - ELEVATIONS AND SECTIONS
SP4506-118	18	YACHT BROKER OFFICES - STRUCTURAL - PLANS AND DETAILS
SP4506-119	19	ARCHITECTURAL - TYPICAL PRECAST PANELS AND DETAILS
SP4506-120	20	REST ROOMS - PLANS, ELEVATIONS AND DETAILS
SP4506-121	21	ELECTRICAL - SITE PLAN, LEGEND, GENERAL NOTES, FIXTURE SCHEDULE
SP4506-122	22	ELECTRICAL - PIERS - NORTH WALL
SP4506-123	23	ELECTRICAL - PIERS - WEST WALL
SP4506-124	24	ELECTRICAL - COVERED SLIPS - SOUTH WALL AND REST ROOMS
SP4506-125	25	ELECTRICAL - CENTRAL FACILITIES BUILDINGS AND HARBOR MASTER OFFICE
SP4506-126	26	ELECTRICAL - YACHT BROKER OFFICES
SP4506-127	27	ELECTRICAL - PIER RECEPTACLE DETAILS
SP4506-128	28	MECHANICAL - SITE PLAN
SP4506-129	29	MECHANICAL - DETAILS AND LEGEND
SP4506-130	30	MECHANICAL - CENTRAL FACILITIES BUILDING AND HARBOR MASTER OFFICE
SP4506-131	31	MECHANICAL - YACHT BROKER OFFICES AND REST ROOMS

JOB NO. SP 4506 - APRIL 1961

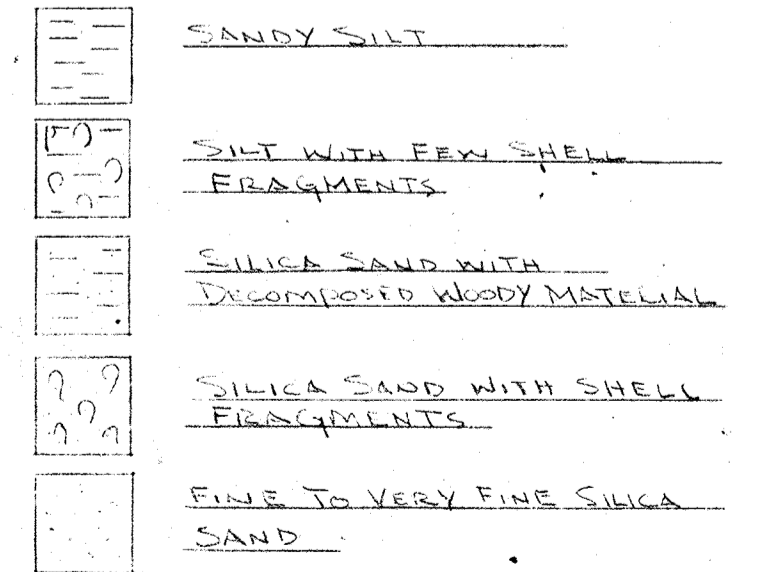
OFFICE COPY



BORING LOGS



LEGEND



TEST TAKEN: MARCH 15, 1961
 HAMMER WT: 140 LB
 HAMMER DROP: 30 IN
 SAMPLE SIZE: 2 IN O.D.
 B. BLOWS PER FOOT PENETRATION

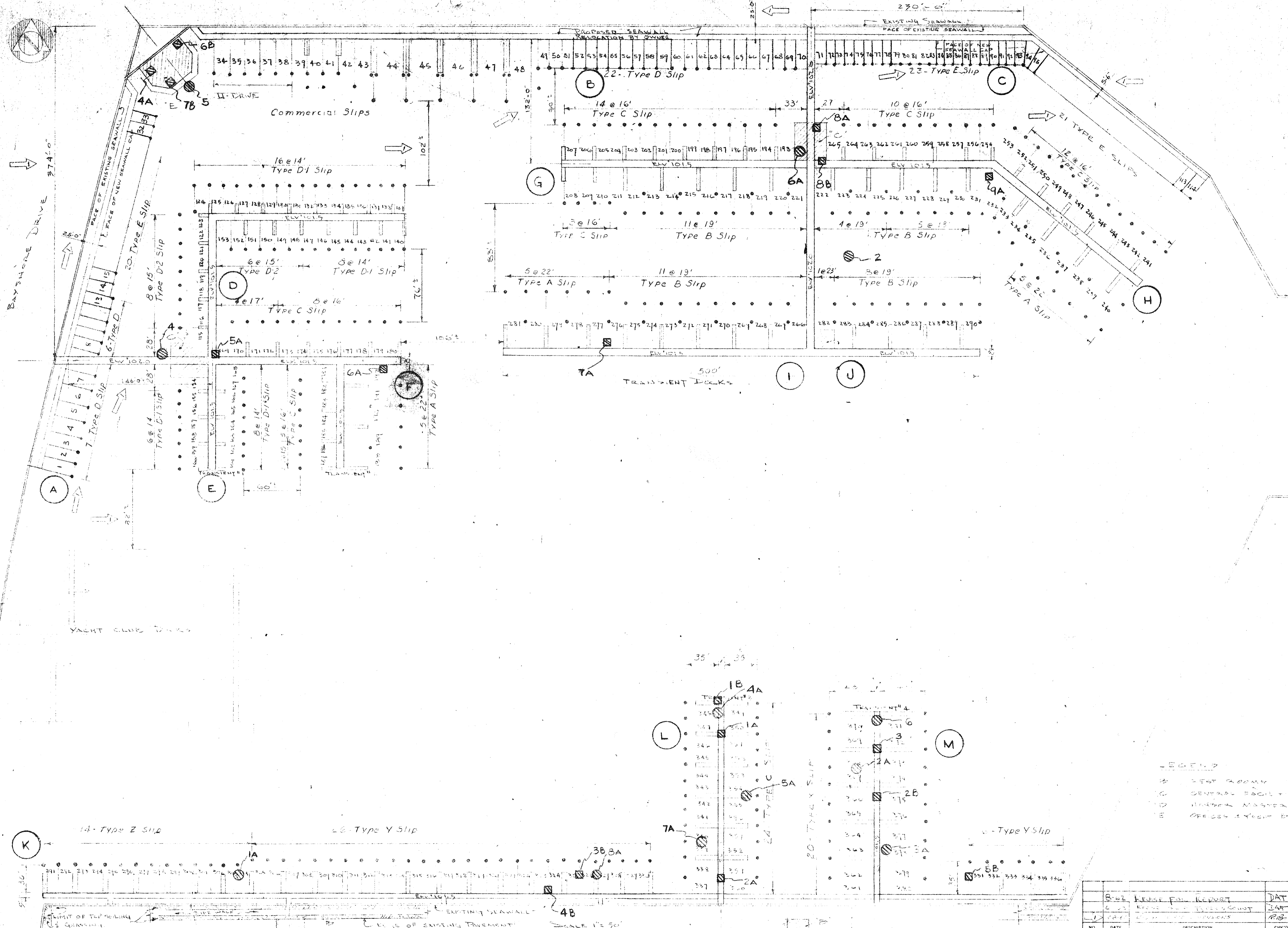
NOTES:

1. SOUNDING BASED ON CITY DATUM OF 97.0 MEAN SEA LEVEL
2. CONTRACTOR SHALL VERIFY ALL SOUNDINGS AND DREDGE LIMITS.
3. FOR DEMOLITION OF EXISTING STRUCTURES, THE CONTRACTOR SHOULD REFER TO DEPT. OF ENGR., DWG. NO. 1181-21 CITY OF ST. PETERSBURG & CONDUCT AN ON-SITE INVESTIGATION.

CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED DRT
DREDGING AND BREAKWATER PLANS AND DETAILS		DRAWN DRT
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS		CHECKED LFN
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C. ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCOA, FLORIDA		APPROVED LFN
APPROVED FOR RADER AND ASSOCIATES		SCALE AS SHOWN
BY <i>Edward L. Rader</i> REGISTERED ENGINEER NO. 12345 STATE OF FLORIDA		JOB NO. SP-4506
FILE NO. SP-4506-102		

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.

SECOND AVE. NO.



Slip Type	Quantity	Length	Width	Remarks
A	19	60'-0"	22'-0"	25' CATWALK
B	44	48'-0"	19'-0"	25' CATWALK
C	85	38'-0"	16'-0"	17' CATWALK
D	39	30'-0"	13'-0"	
D-1	39	30'-0"	14'-0"	10' CATWALK
D-2	19	30'-0"	17'-0"	10' CATWALK
E	64	29'-0"	10'-0"	
TOTAL OPEN SLIPS - 297				
X	20	48'-0"	18'-0"	25' CATWALK
Y	32	39'-0"	19'-0"	25' CATWALK
Z	14	30'-0"	14'-0"	25' CATWALK
TOTAL COVERED SLIPS - 86				
COMM	5	65'-0"	34'-0"	35' CATWALK 5' WIDE
COMM	5	35'-0"	18'-0"	15' CATWALK 5' WIDE
TOTAL COMMERCIAL SLIPS - 19				
U-DRIVE	7	35'-0"	19'-0"	

- NOTES:
- ELEVATIONS OF PILES AS NOTED
 - DO NOT OBTAIN DIMENSIONS BY SCALING
 - (X) INDICATES PIER NUMBER
 - 000 INDICATES SLIP NUMBER
 - (S) INDICATES LOCATION OF TEST BORINGS
 - (P) INDICATES LOCATION OF TEST PILES DRIVEN

- LEGEND
- (S) TEST BORING
 - (P) CENTRAL PILE + IS
 - (D) HULLER MASTER
 - (E) GROUND LEVEL DRIVE

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA

SLIP LAYOUT PLAN
TEST PILE & TEST BORING
LOCATION PLAN

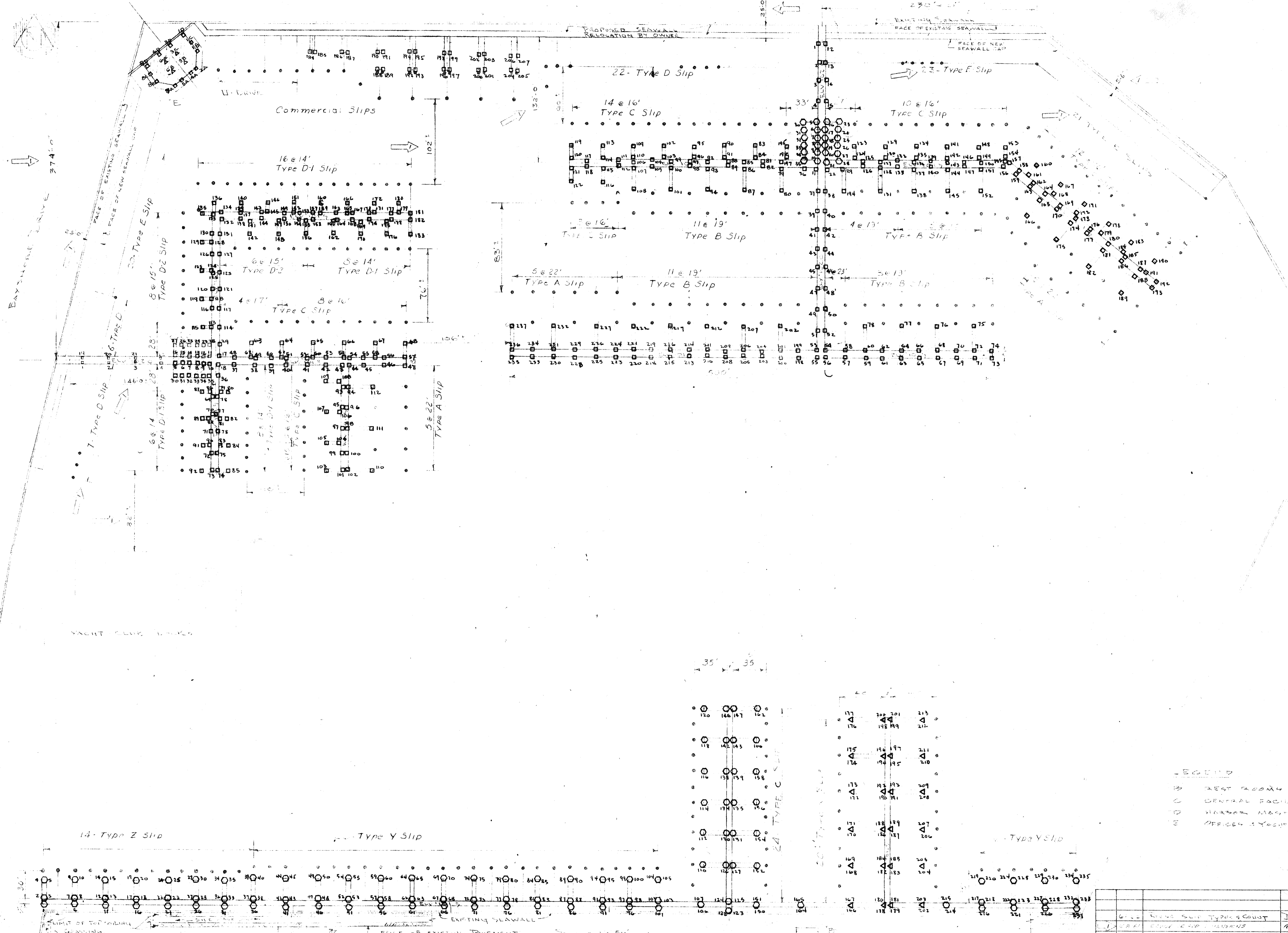
RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS

KINGSTON, JAMAICA, W. I. MIAMI, FLORIDA WASHINGTON, D. C.
ST. PETERSBURG, FLORIDA OPALESCENCE, FLORIDA COCOA, FLORIDA

DATE: APRIL 1968
DESIGNED: DAT
DRAWN: DAT
CHECKED: AMB
APPROVED: LFN
SCALE: AS SHOWN
JOB NO.: SP-4506
FILE NO.: SP-4506-10

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
1		REVISED FOR REPORT	DAT	
2		REVISED FOR SLIP COUNT	DAT	
3		REVISED FOR PILES	AMB	

SECOND AVE. NO



SLIP COUNT

Slip Type	Quantity	Length	Width	REMARKS
A	15	60'-0"	22'-0"	25' CATWALK
B	44	48'-0"	17'-0"	25' CATWALK
C	85	38'-0"	16'-0"	15' CATWALK
D	35	30'-0"	13'-0"	
D-1	39	30'-0"	14'-0"	10' CATWALK
D-2	17	30'-0"	17'-0"	10' CATWALK
E	64	27'-0"	10'-0"	
TOTAL OPEN SLIPS = 297				
X	20	48'-0"	18'-0"	25' CATWALK
Y	32	39'-0"	17'-0"	25' CATWALK
Z	14	30'-0"	14'-0"	25' CATWALK
TOTAL COVERED SLIPS = 66				
COMM	5	65'-0"	34'-0"	35' CATWALK 5' WIDE
COMM	2	35'-0"	18'-0"	15' CATWALK 5' WIDE
TOTAL COMMERCIAL SLIPS = 15				
U-DRIVE	5	35'-0"	19'-0"	

- NOTES
- ELEVATIONS OF PILES AS NOTED
 - DO NOT OBTAIN DIMENSIONS BY SCALING
 - 000 NUMBER OF PILE
 - D-10 pile O-12" pile Δ-14" pile

- LEGEND
- REST ROOM
 - CENTRAL FACILITIES
 - HARBOR MASTER
 - OFFICE & YACHT BRACKS

REVISIONS

NO.	DATE	DESCRIPTION	CHK'D.	APPR.
1	4/27	SLIP LAYOUT PLAN	RSB	LIT

CITY OF ST. PETERSBURG
FLORIDA

CENTRAL YACHT BASIN MARINA

SLIP LAYOUT PLAN
AND
PILE NUMBERS

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS

KINGSTON, FLORIDA, U.S.A. — MIAMI, FLORIDA — WASHINGTON, D.C.
ST. PETERSBURG, FLORIDA — OPALESA, FLORIDA — COCOA, FLORIDA

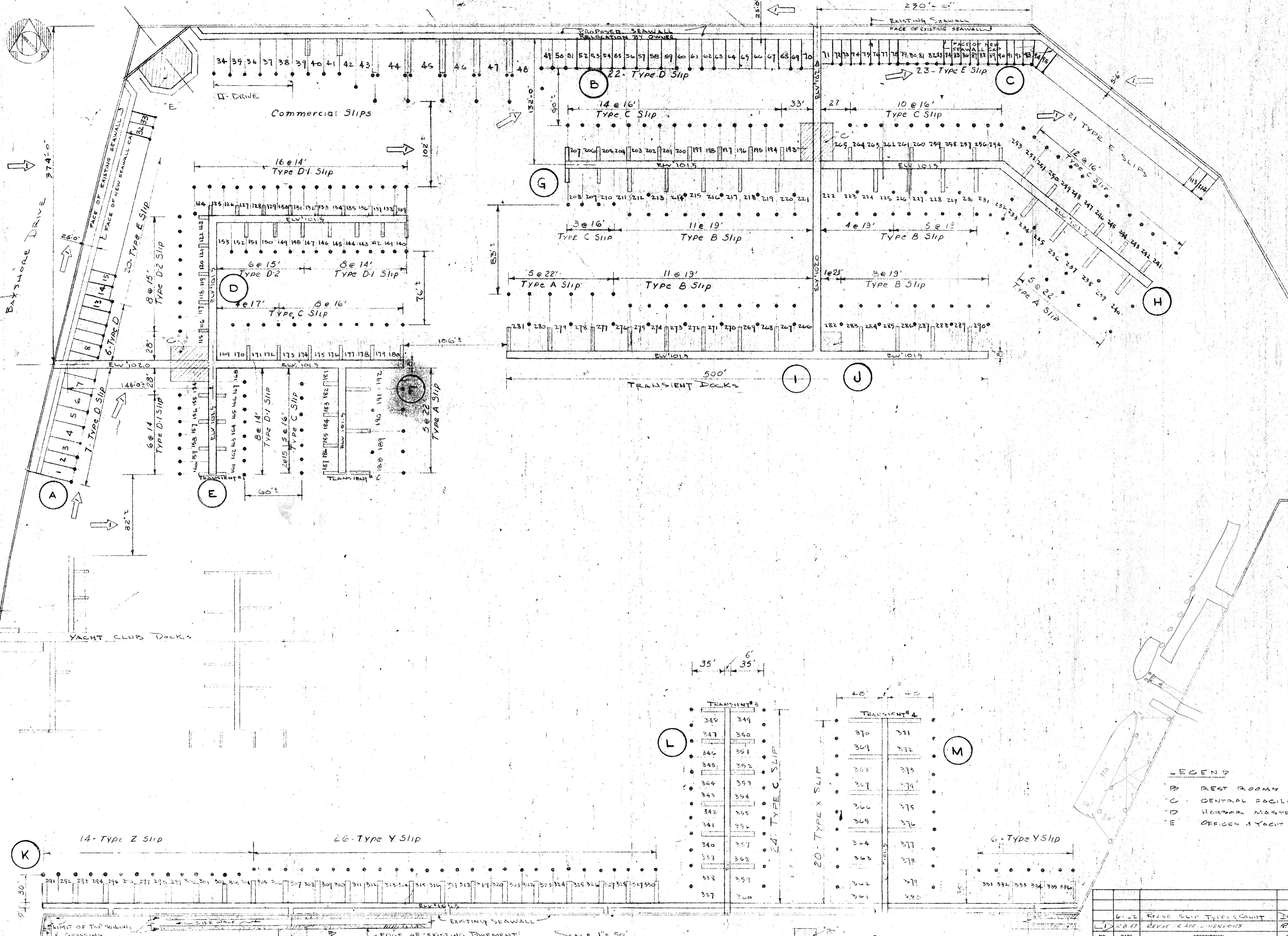
APPROVED FOR RADER AND ASSOCIATES BY *[Signature]*
REGISTERED ENGINEER NO. 777 STATE OF FLORIDA

DATE APRIL 1966
DESIGNED BY *[Signature]*
DRAWN BY *[Signature]*
CHECKED BY *[Signature]*
APPROVED BY *[Signature]*
SCALE AS SHOWN
JOB NO. SP-4506
FILE NO. SP-4506-10

SECOND AVE. NO.

SLIP COUNT

Slip Type	Quantity	Length	Width	Remarks
A	15	60'-0"	22'-0"	25' CATWALK
B	44	48'-0"	19'-0"	25' CATWALK
C	85	38'-0"	16'-0"	15' CATWALK
D	39	30'-0"	13'-0"	
D-1	39	30'-0"	14'-0"	10' CATWALK
D-2	15	30'-0"	17'-0"	10' CATWALK
E	64	29'-0"	10'-0"	
TOTAL OPEN SLIPS - 297				
X	20	48'-0"	18'-0"	25' CATWALK
Y	32	39'-0"	17'-0"	25' CATWALK
Z	14	30'-0"	14'-0"	25' CATWALK
TOTAL COVERED SLIPS - 66				
COMM	7	67'-0"	34'-0"	33' CATWALK, 5' WIDE
COMM	7	35'-0"	18'-0"	15' CATWALK, 5' WIDE
TOTAL COMMERCIAL SLIPS - 19				
U-DRIVE	7	35'-0"	17'-0"	



NOTES:
 1. ELEVATIONS OF PILES AS NOTED
 2. DO NOT OBTAIN DIMENSIONS BY SCALING.

- LEGEND
- B REST ROOMS
 - C CENTRAL FACILITIES
 - D HARBOR MASTER
 - E OFFICES & YACHT BROKER

TRANSIENT #3

348	349
347	350
346	351
345	352
344	353
343	354
342	355
341	356
340	357
339	358
338	359
337	360

24 - TYPE C SLIP

TRANSIENT #4

370	371
369	372
368	373
367	374
366	375
365	376
364	377
363	378
362	379
361	380

20 - TYPE X SLIP

6 - Type Y Slip

301	302	303	304	305	306
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CITY OF ST. PETERSBURG
 FLORIDA
 CENTRAL YACHT BASIN MARINA

SLIP LAYOUT PLAN

RADER AND ASSOCIATES
 ENGINEERS AND ARCHITECTS

KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.
 ST. PETERSBURG, FLORIDA — OPALESDALE, FLORIDA — COCOA, FLORIDA

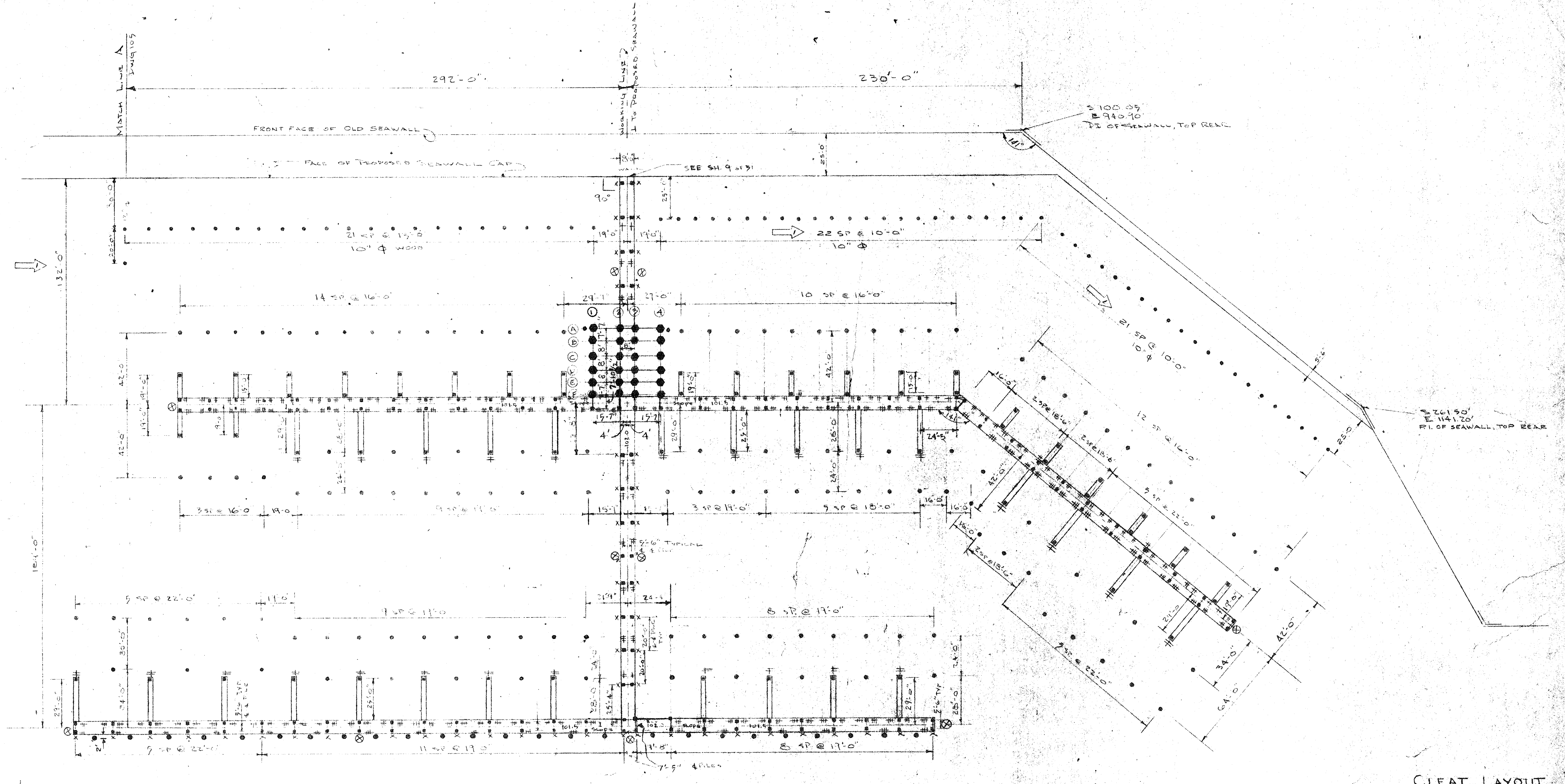
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 DESIGNED: DAT
 DRAWN: DAT
 CHECKED: [Signature]
 APPROVED: [Signature]
 SCALE: AS SHOWN

JOB NO. SP-4506
 FILE NO. SP-4506-10

REVISIONS

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
1	4-2-68	REVISE SLIP TYPES COUNT	DAT	
2	4-2-68	REVISE SLIP DIMENSIONS	RJR	

SCALE 1" = 50'



SCALE: 1/2" = 1'-0"

SEE DWG. SP-4506-13B

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
1	8-62	ALL 12" PILING UNDER BUILDING	DAF	
2	6-62	DELETE H.M. BLD. REVISE PILE SIZE	DAF	L.H.
3	2-62	REVISE PILES AT BUILDINGS	R.B.	L.F.N.
4	12-5-61	REVISE DIMENSIONS	R.B.	L.F.N.

REVISIONS

CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED DAF
DECK FRAMING AND PILE PLAN NORTH WALL		DRAWN DAF
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS		CHECKED M.M.
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.		APPROVED L.F.N.
ST. PETERSBURG, FLORIDA — COCOA, FLORIDA		SCALE AS SHOWN
APPROVED FOR RADER AND ASSOCIATES		JOB NO. SP-4506
BY <i>[Signature]</i> REGISTERED ENGINEER NO. 717 STATE OF FLORIDA		FILE NO. SP-4506-104

GENERAL NOTES

- ALL PILES SHALL HAVE A MINIMUM PENETRATION INTO THE BAY BOTTOM OF 10 FEET. PILES SHALL BE DRIVEN TO THE FOLLOWING MINIMUM CAPACITIES: UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, GENERAL ORDER NO. 7 - UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, BUILDING PILES; 20 KIPS MAIN PILES; 15 KIPS CATWALKS.

10 x 10	-	25 KIPS
12 x 12	-	45 KIPS
14 x 14	-	60 KIPS
- MINIMUM REQUIRED ULTIMATE COMPRESSIVE STRESS IN CONCRETE TO BE AS FOLLOWS:

PRESTRESSED	-	f'c = 5,000 PSI	ROOF GIRDERS - 6,000 PSI
PRECAST(NON-PRESTRESSED)	-	f'c = 3,750 PSI	
CAST IN PLACE	-	f'c = 3,750 PSI	
- CONCRETE PILES, DECK UNITS (BOTH FOR SUSPENDED WALKWAYS AND ROOF DECKS) BEAMS, AND GIRDERS SHALL BE PRECAST PRESTRESSED CONCRETE.
- PRECAST DECK UNITS AND OTHER SURFACES USED AS WALKWAYS SHALL HAVE THEIR SURFACES FINISHED WITH A LIGHT BRUSH FINISH WITH STRIATIONS NORMAL TO THE DIRECTION OF TRAFFIC.
- AIR ENTRAINMENT IS MANDATORY FOR PRECAST AND CAST IN PLACE CONCRETES, OPTIONAL (WITH APPROVAL) FOR PRESTRESSED CONCRETE.
- EXPOSED REINFORCING STEEL SERVING AS DWELS SHALL BE CAREFULLY CLEANED WITH FRESH WATER TO REMOVE ALL SALT DEPOSITS IMMEDIATELY PRIOR TO POURING CONCRETE.
- EXPOSED EDGES OF ALL PRECAST UNITS SHALL BE CAREFULLY TOOLED OR BEVELLED FOR A NEAT FINISHED APPEARANCE.
- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

PRESTRESSED MEMBERS:	THIN FLANGES	-	1"
	ELSEWHERE	-	1 1/2"
PILE CAPS		-	3"
ALL OTHER CONCRETE		-	2"
- WORK STRUCTURAL DRAWINGS WITH MECHANICAL AND ELECTRICAL TO PROVIDE ALL NECESSARY OPENINGS, SLEEVES AND HANGERS IN THE CONCRETE.
- NAUTICAL TYPE FLAGPOLE: FURNISH AND ERECT WHERE SHOWN ON PLANS A 40 FOOT HIGH SWAGED SECTIONAL STEEL DOUBLE MAST NAUTICAL TYPE FLAGPOLE, COMPLETE WITH YARDARM AND ALL OTHER EQUIPMENT MADE IN STRICT ACCORDANCE WITH THE STANDARD PRODUCT OF JOHN E. LINGO AND SON OR APPROVED EQUAL. POLE SHALL BE TYPE NUMBER DM-80-HP HAVING AN ASSEMBLED EXPOSED HEIGHT ABOVE BASE OF 40 FEET. OTHER DIMENSIONS AS GIVEN IN SCHEDULE. POLE SHALL BE EQUIPPED WITH STANDARD NON-FOULING BALL BEARINGS REVOLVING TRUCK, ONE 9" CAST IRON GALVANIZED CLEAT, ONE 3/8" DIA. U.S. STANDARD MANILA BOLT ROPE HALLYARD WITH TWO BRONZE SWIVEL SNAPS, ONE STANDARD STEEL GROUND PROTECTOR AND TWO STANDARD FABRICATED STEEL BANDS ETC., FOR CONNECTING TOP MAST TO LOWER MAST. YARDARM SHALL BE FURNISHED WITH TWO STANDARD BRONZE SWIVEL BLOCKS, TWO 3/8" DIA. U.S. STANDARD MANILA BOLT ROPE HALLYARDS EACH WITH TWO BRONZE SWIVEL SNAPS, TWO 9" CAST IRON GALVANIZED CLEATS AND ONE STANDARD FABRICATED STEEL CONNECTIONS FOR ATTACHING YARD ARM TO LOWER MAST. TOP MAST, LOWER MAST, YARDARM AND ALL STEEL CONNECTING FITTINGS SHALL BE GALVANIZED AFTER FABRICATION BY THE HOT-DIP PROCESS, MINIMUM 1/2 OZ. PER SQ. FT. THE FLAGPOLE SHALL BE EQUIPPED WITH ONE SET OF GALVANIZED STANDARD STEEL WALL BRACKETS, DESIGN NO. W-18.
- ASSUMED LIVE LOADS:

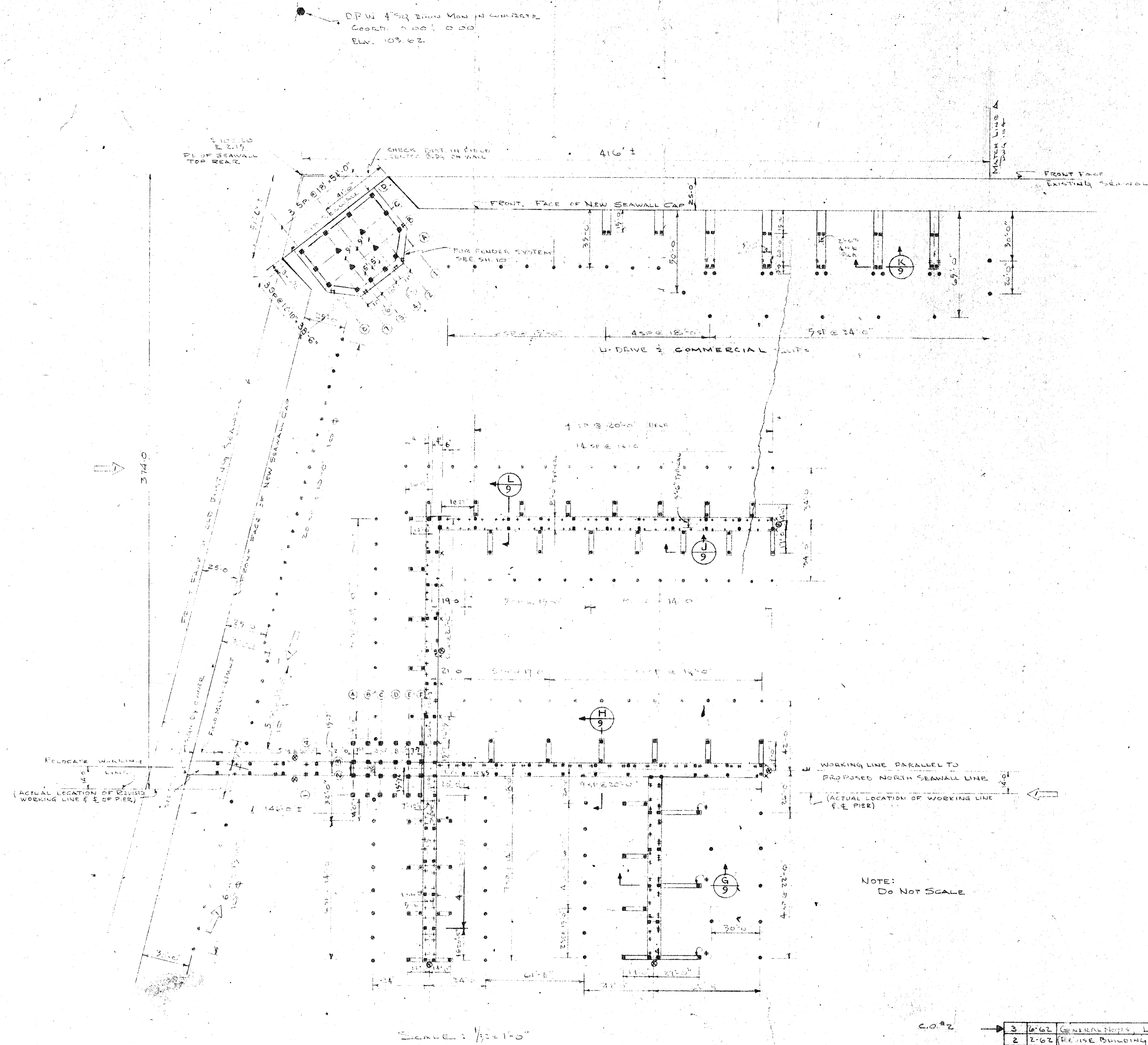
ALL PIERS	-	100 PSF
CONCRETE PIERS	-	100 PSF
ALL OTHER CATWALKS	-	50 PSF
ROOF, COVERED SLIPS	-	20 PSF

CLEAT LAYOUT

- + = 10" GALT
- ++ = 12" "
- ## = 18" "
- X = VERTICAL FENDER
- ⊗ = SAFETY LADDER

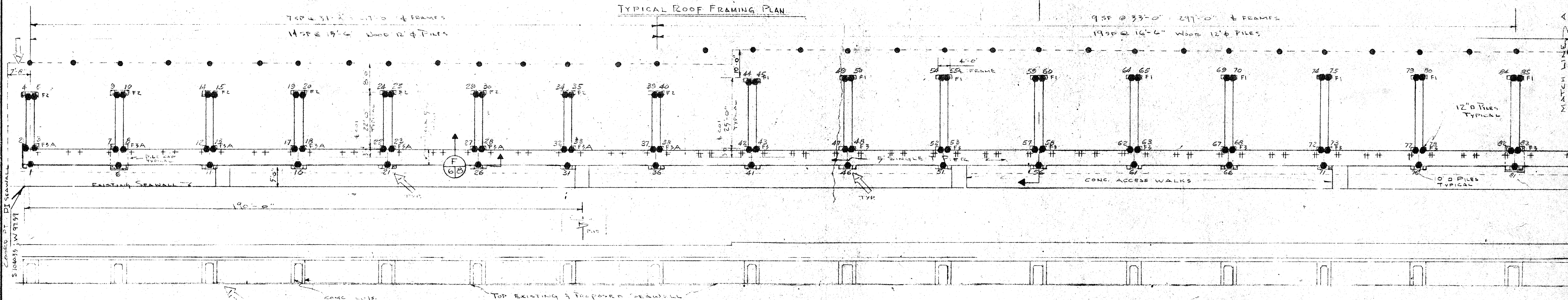
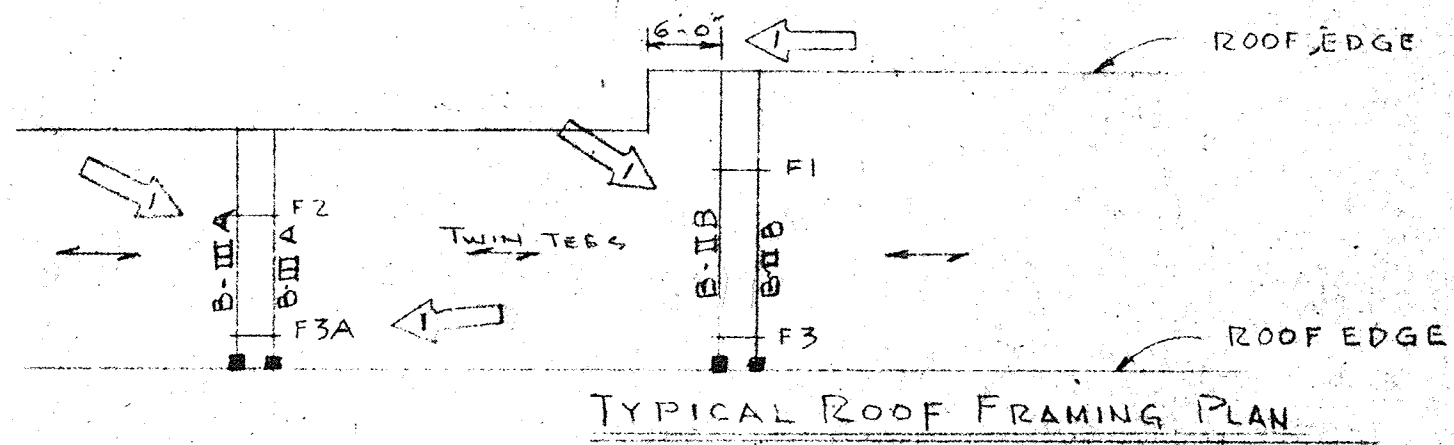
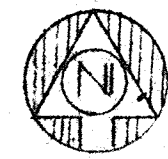
PILES

- 12" φ WOOD PILE EXCEPT WHERE NOTED AS 10" φ
- 10x10 PRECAST PRESTRESSED PILE
- 12x12
- ▲ 14x14

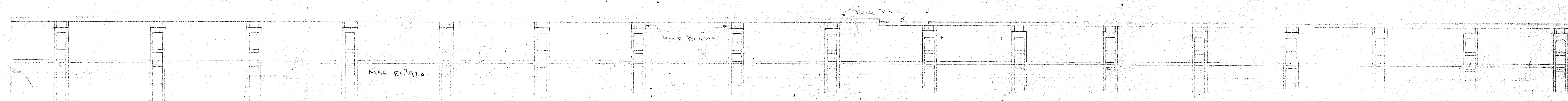


NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
3	6-62	GENERAL NOTES, LAYOUT DIMENSIONS		
2	2-62	REVISE BUILDING PILES & MAIN BEARING CAPACITIES	JAT	LH
1	1-61	REVISE LAYOUT DIMENSIONS	JAT	LH

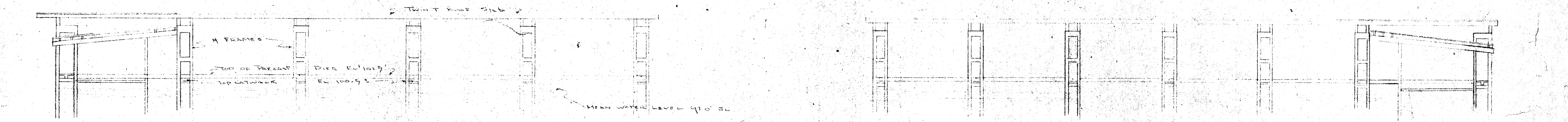
CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED JAT
DECK FRAMING AND PILE PLAN		DRAWN JAT
WEST WALL		CHECKED MMS
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS		APPROVED LH
KINGSTON, JAMAICA, W. I. - MIAMI, FLORIDA		SCALE AS SHOWN
ST. PETERSBURG, FLORIDA		JOB NO. SP-4506
APPROVED FOR RADER AND ASSOCIATES		FILE NO. SP-4506-108



SOUTH ELEVATION

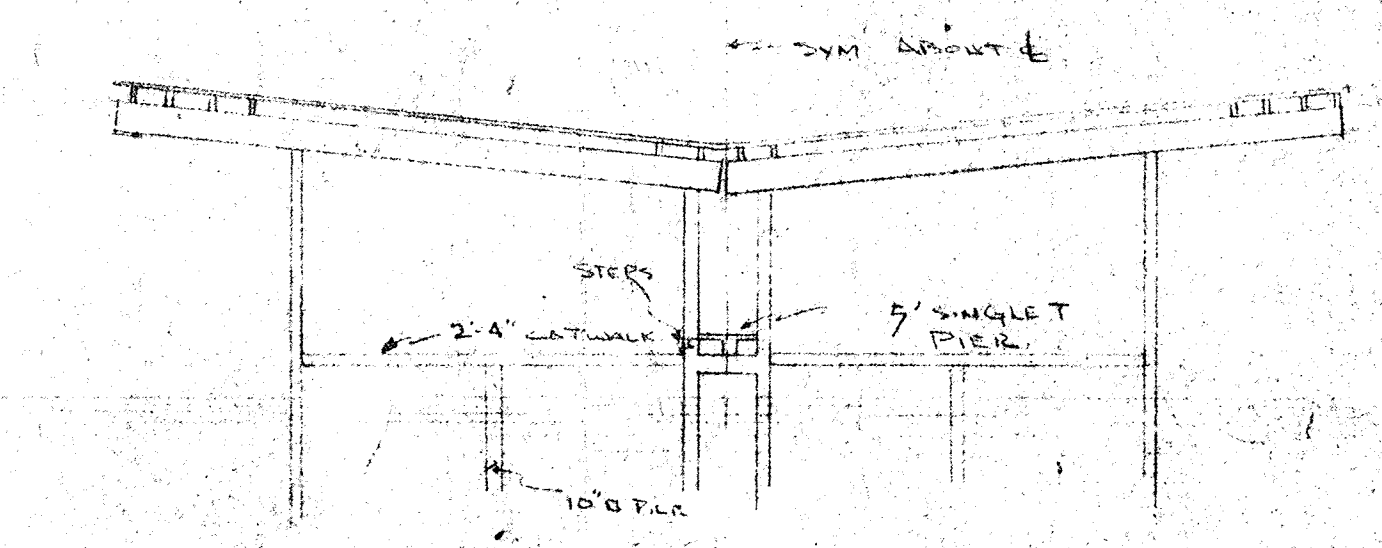


NORTH ELEVATION

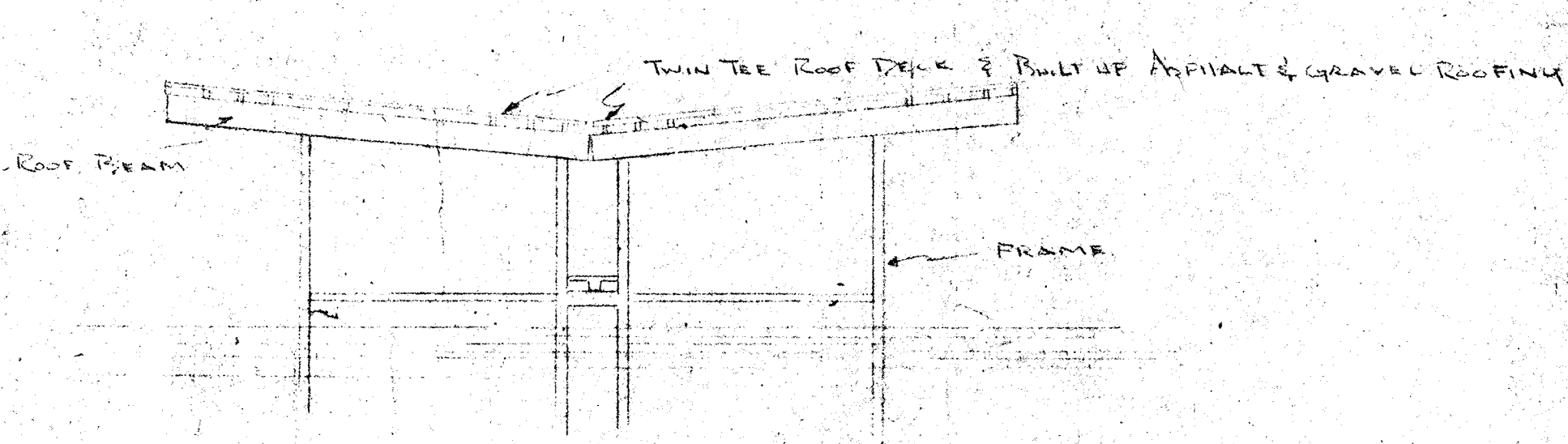


EAST ELEVATION

WEST ELEVATION



SECTION A-A



SECTION A'-A'

SCALE 1/16" = 1'-0"

FOR GENERAL NOTES SEE SH 5 OF 31
F - DENOTES FRAME TYPE SEE SH 8 OF 31
B - DENOTES BEAM TYPE SEE SH 10

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
3	6-62	REVISE PILE SIZE & NO. PILES.		
2	2-62	REVISE SIZE & LAYOUT OF PILES (REVISE ROOF LINE-REVISE PILES)	DR	LH
1	4-8-61	DELETE SCREEN WALL-ADD FRAME 3A DELETE BEAM II & III	RQ	LF

REVISIONS

CITY OF ST. PETERSBURG
FLORIDA
DESIGNED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]
SCALE: AS SHOWN

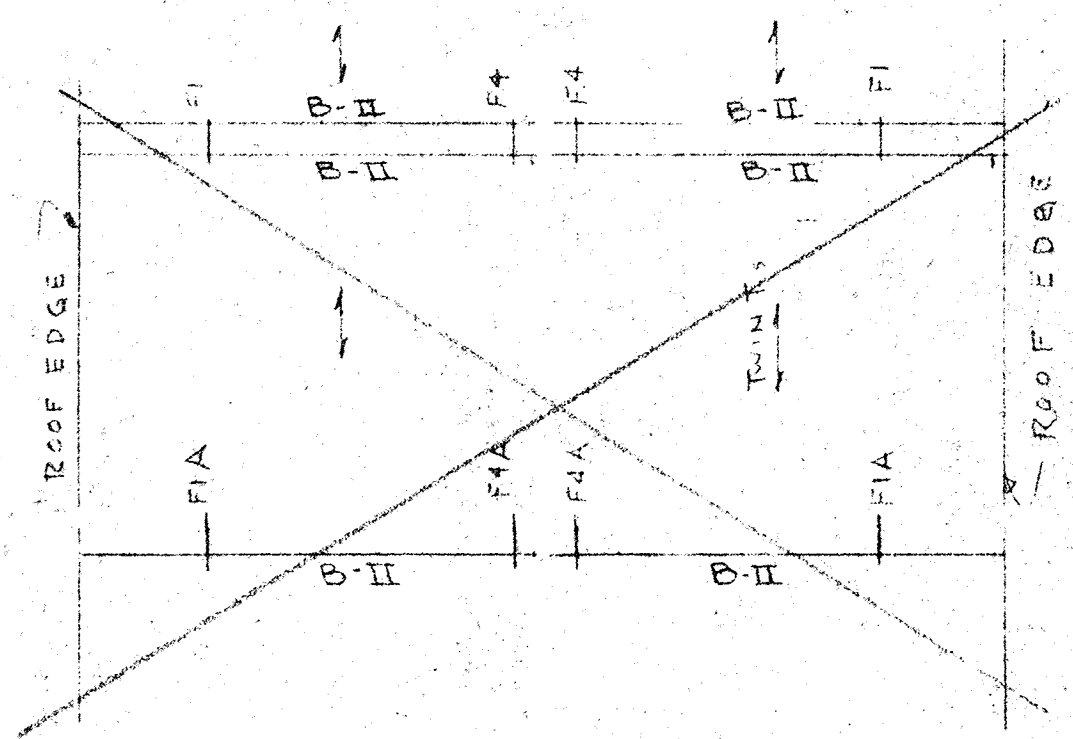
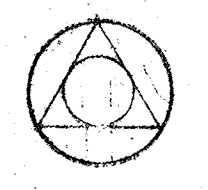
CENTRAL YACHT BASIN MARINA
COVERED SLIPS - SOUTH WALL
PLAN, ELEVATIONS AND SECTIONS

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
- MIAMI, FLORIDA -

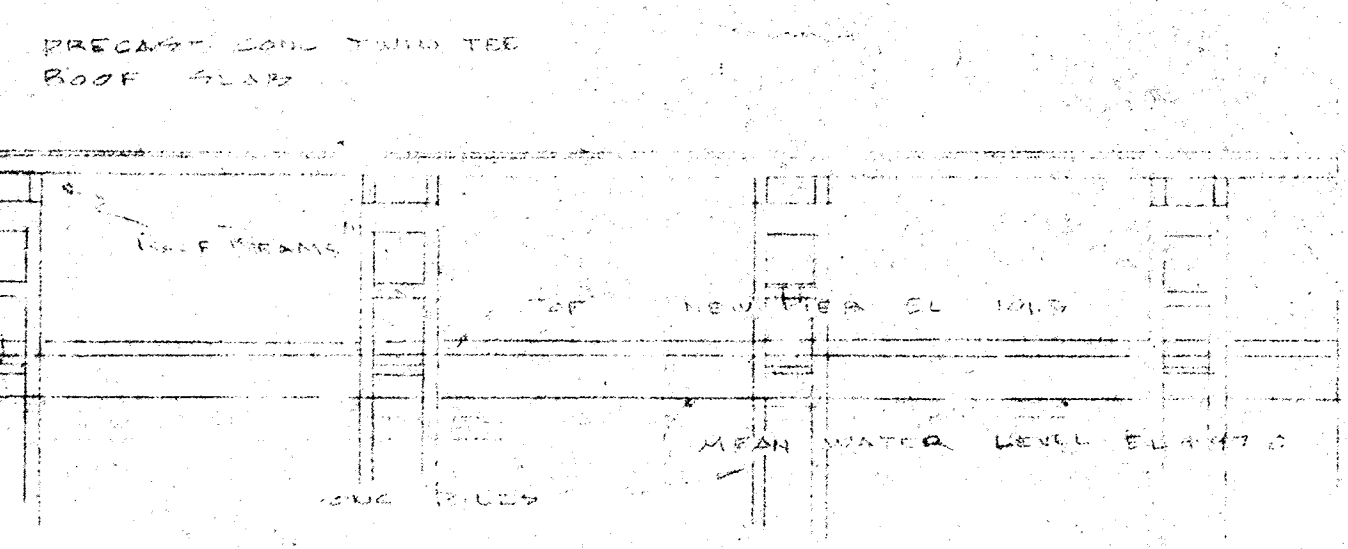
REGISTERED ENGINEER NO. 717 STATE OF FLORIDA

DATE: APRIL 1962
JOB NO.: SP-4506
FILE NO.: SP-4506-106

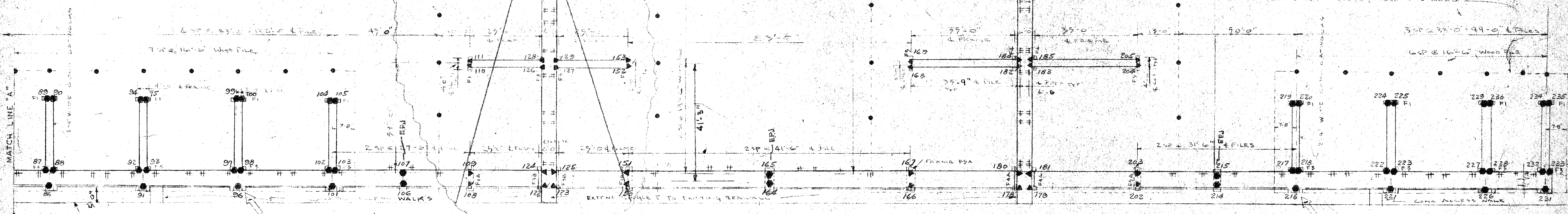
HOLD FOR CHANGE ORDER'S
SEE SHEET 34 FOR PIER
REVISIONS Co.#3 SP 4506-134



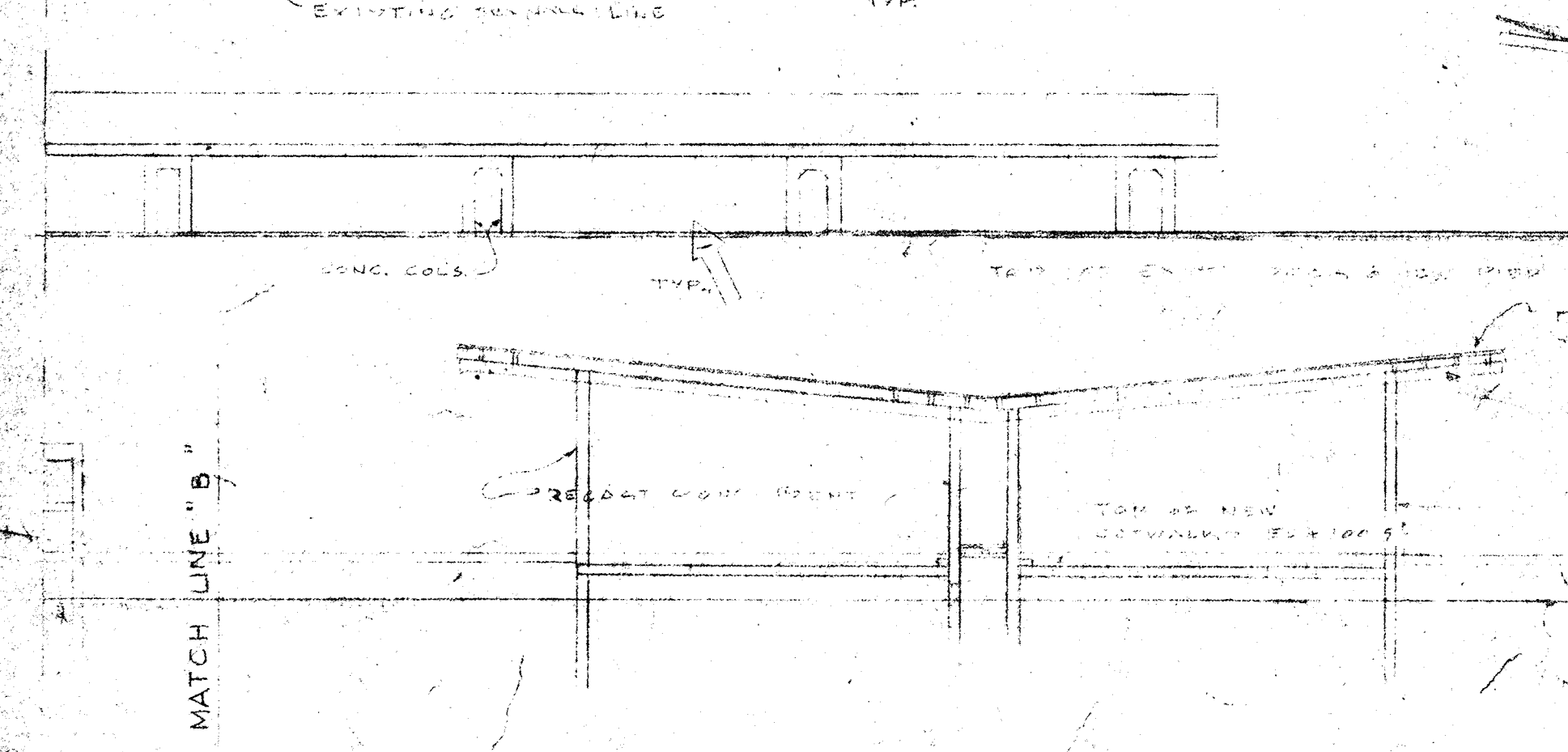
TYPICAL ROOF FRAMING PLAN



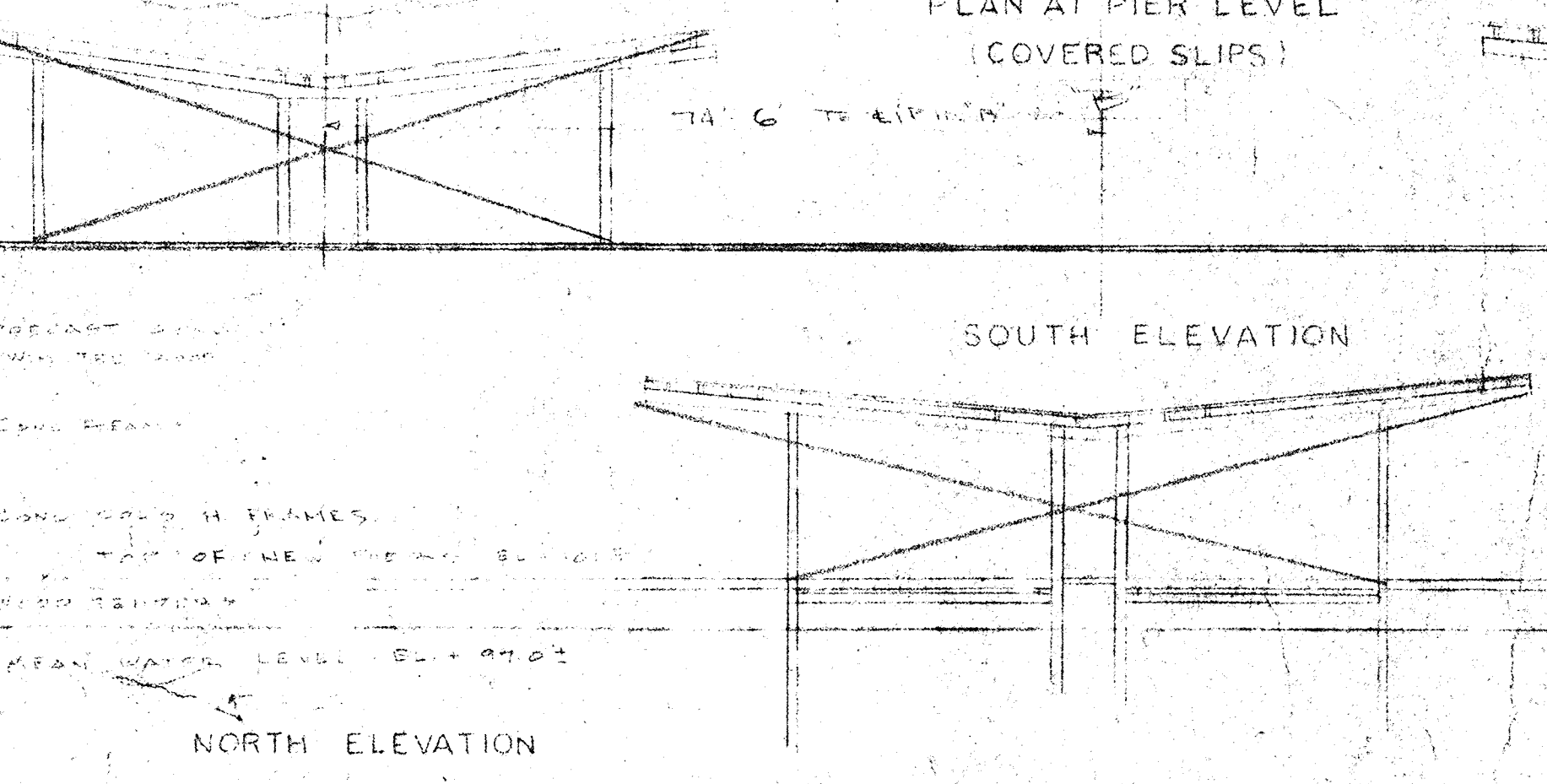
NORTH ELEVATION



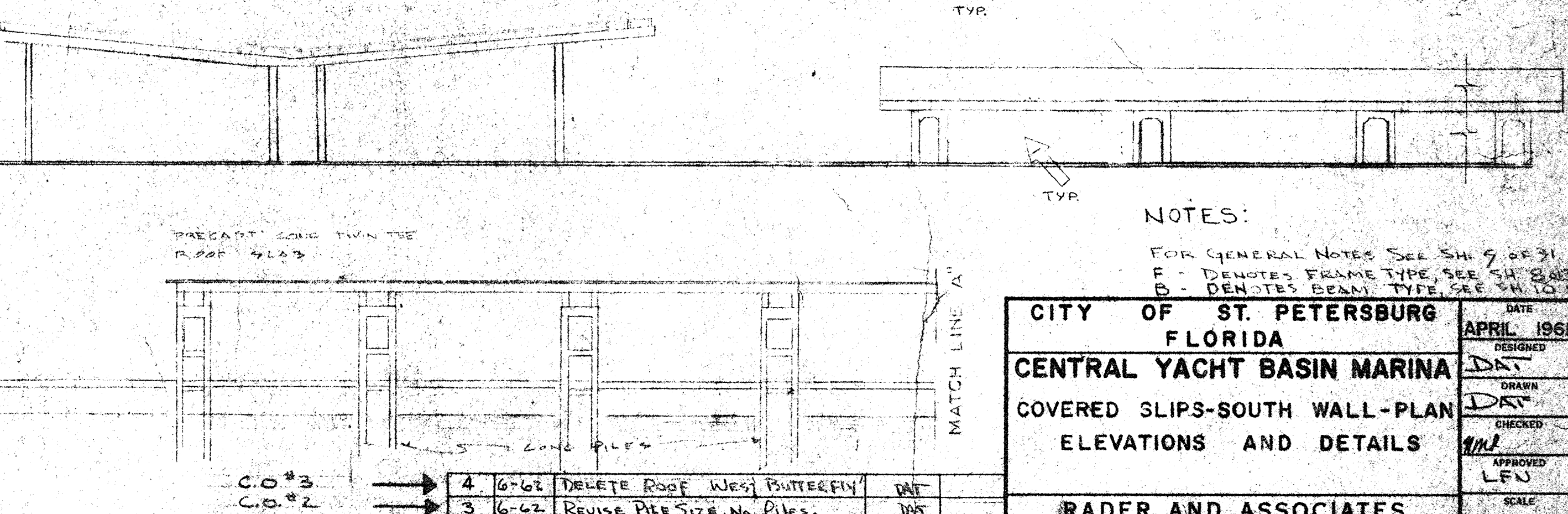
PLAN AT PIER LEVEL
(COVERED SLIPS)



NORTH ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

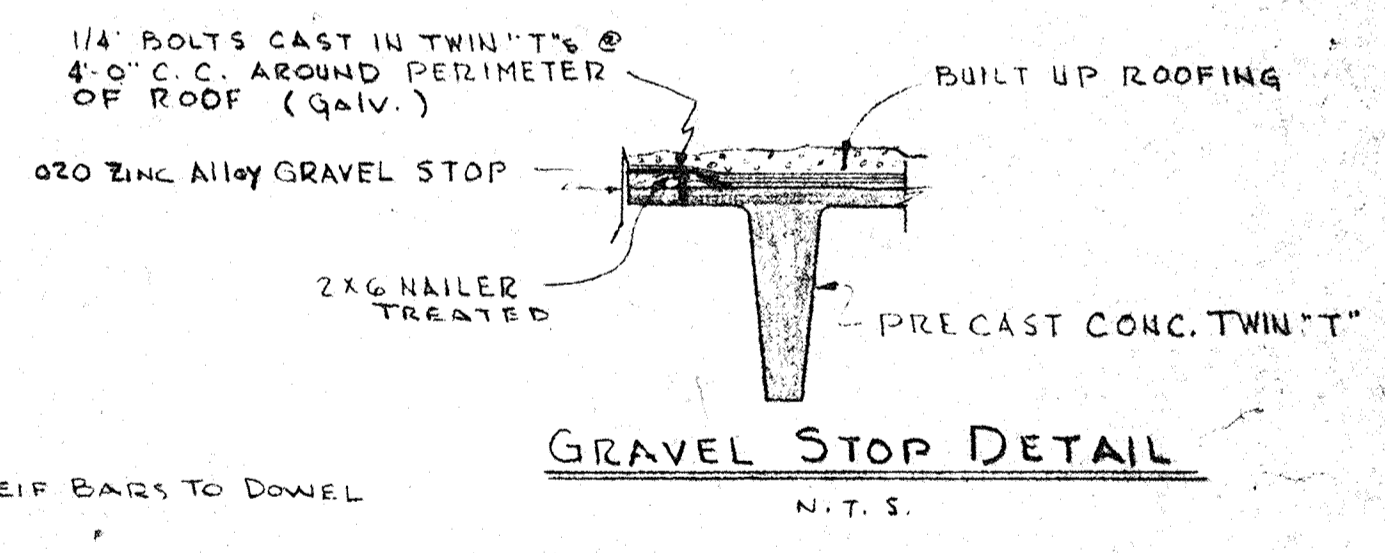
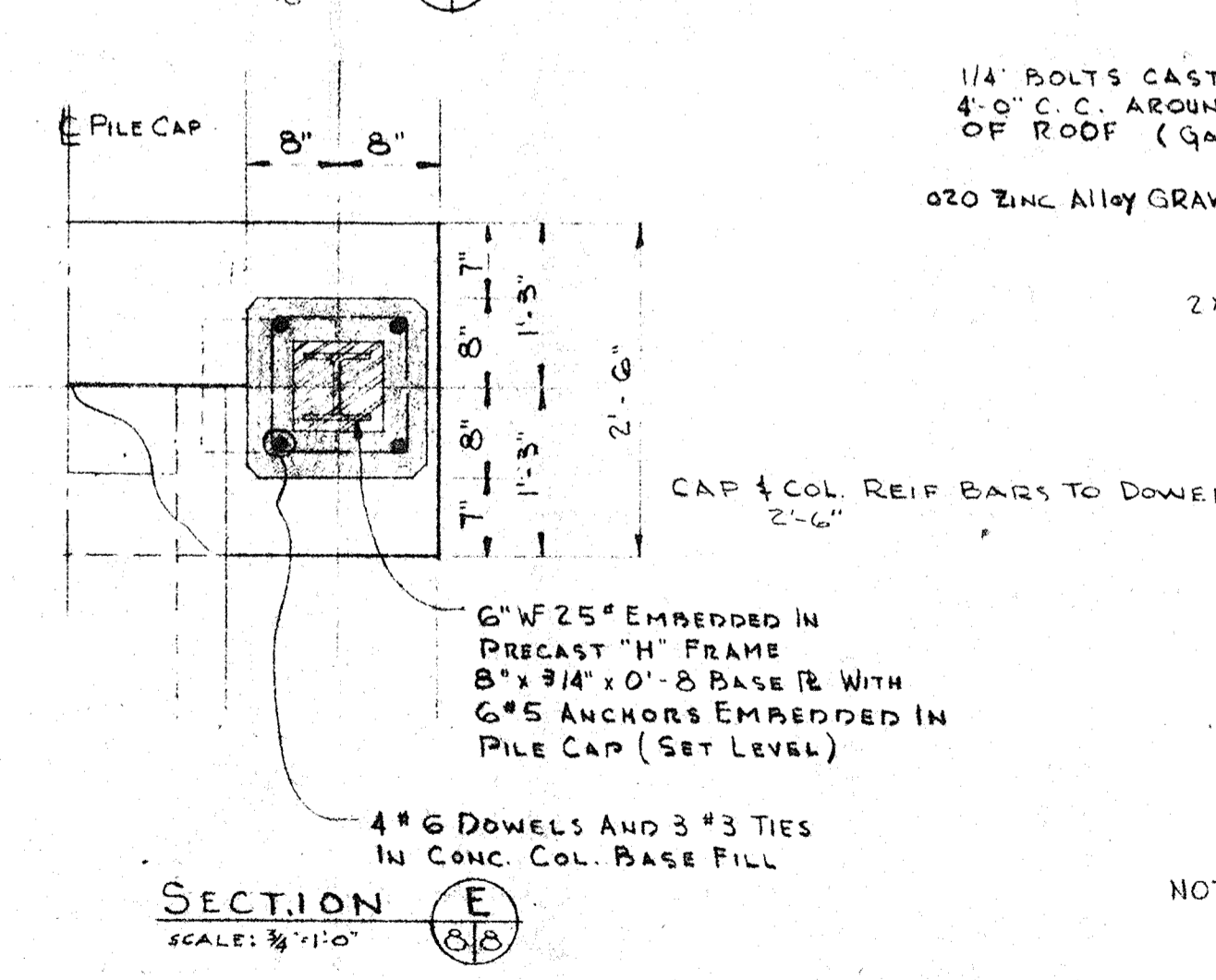
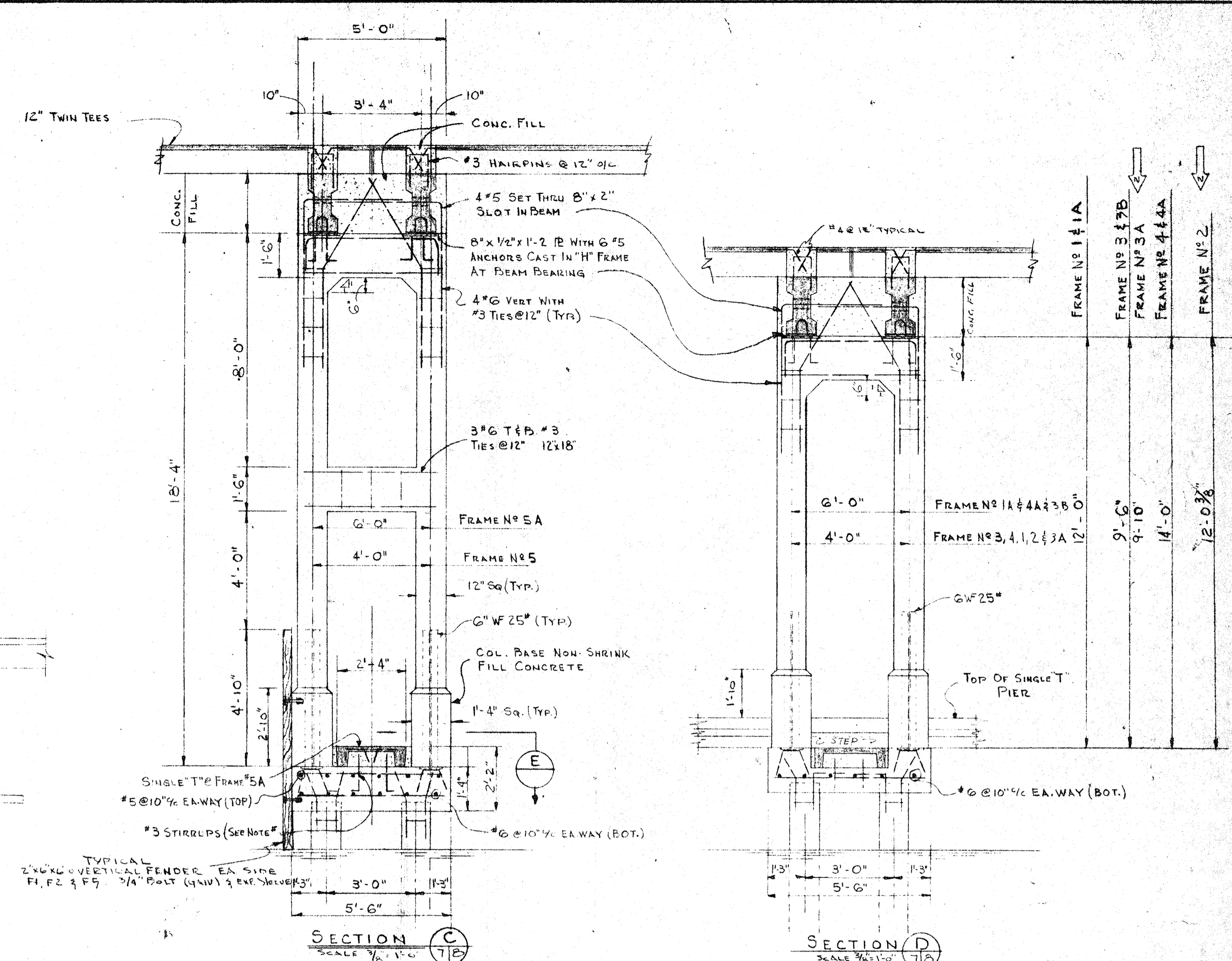
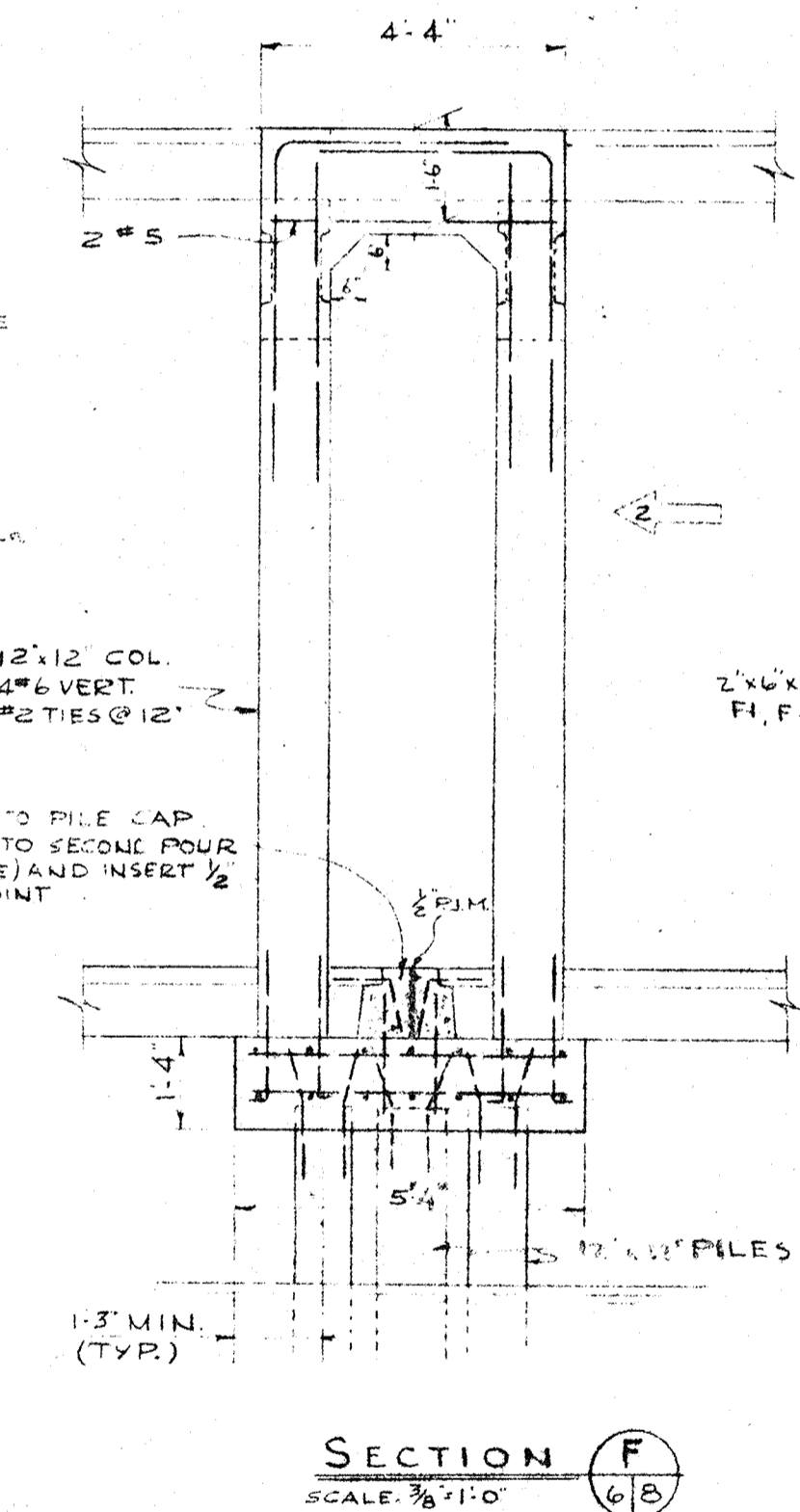
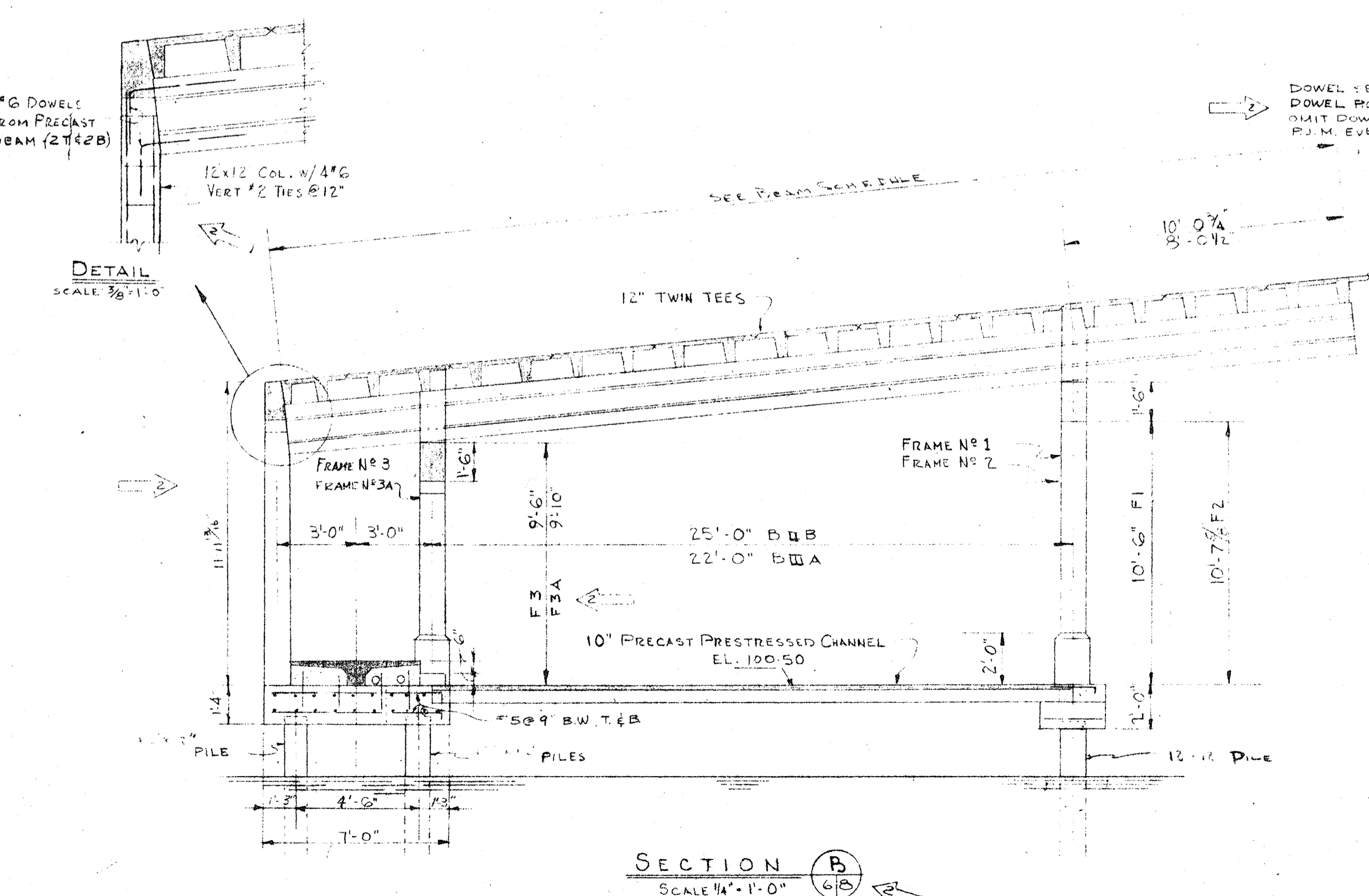
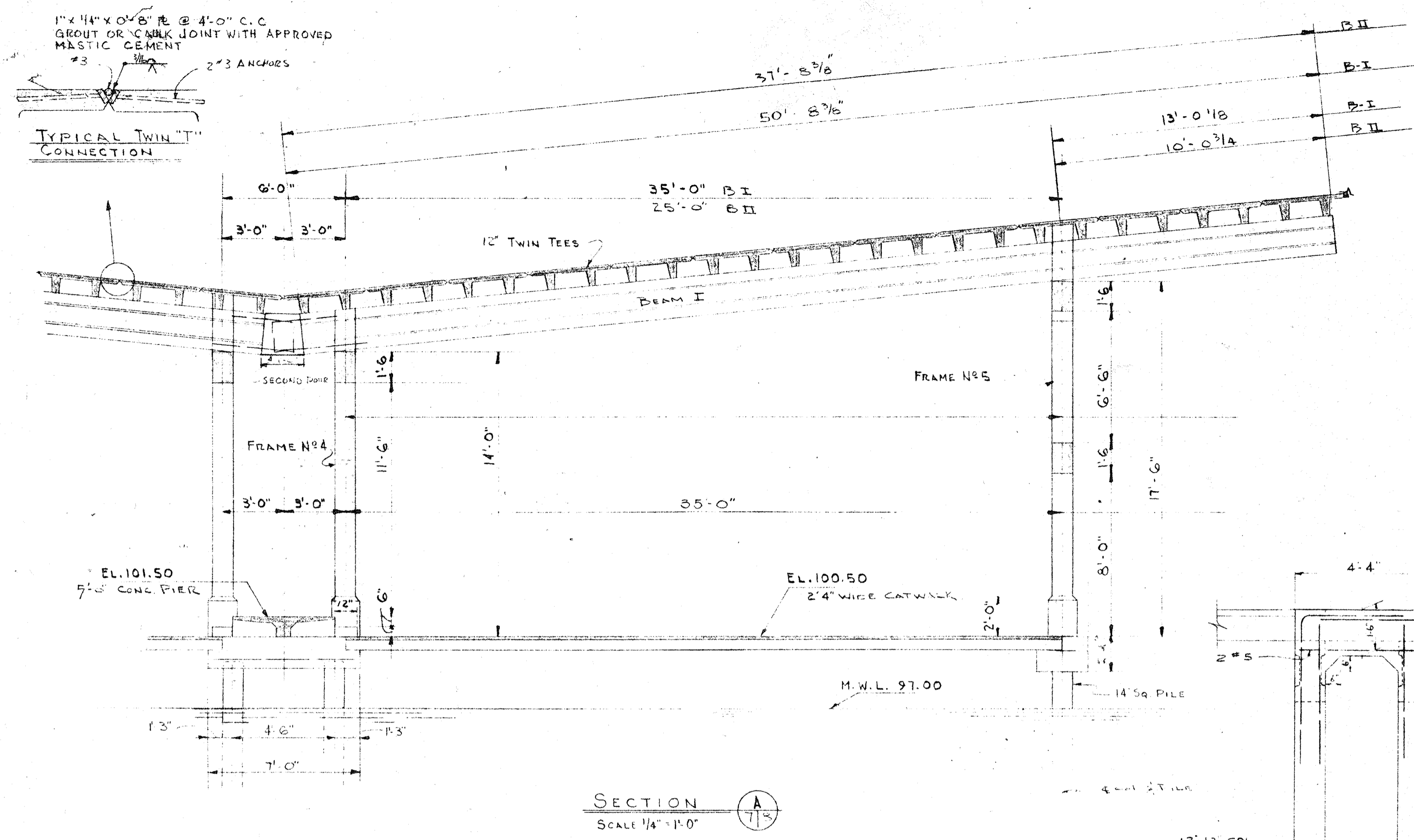
NOTES:
FOR GENERAL NOTES SEE SHEET 9 OF 31
F - DENOTES FRAME TYPE SEE SHEET 8 OF 31
B - DENOTES BEAM TYPE SEE SHEET 10 OF 31

CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED D.M.T.
COVERED SLIPS-SOUTH WALL-PLAN ELEVATIONS AND DETAILS		DRAWN D.R.T.
		CHECKED M.H.
		APPROVED L.F.V.
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS		SCALE AS SHOWN
KINGSTON, JAMAICA, W. I. - MIAMI, FLORIDA - ST. PETERSBURG, FLORIDA - ORLANDO, FLORIDA - CORAL GABLES, FLORIDA		JOB NO. SP-4506
APPROVED FOR RADER AND ASSOCIATES		FILE NO. SP-4506-107

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
4	6-62	DELETE ROOF WEST BUTTERFLY	D.M.T.	
3	6-62	REVISE PILE SIZE, NO. PILES.	D.M.T.	
2	2-62	REVISE LAYOUT (SIZE OF PILES)	D.M.T.	L.H.
1	12-61	DELETE SCREEN WALL	P.B.	L.F.V.

REVISIONS

SCALE: NOT TO SCALE

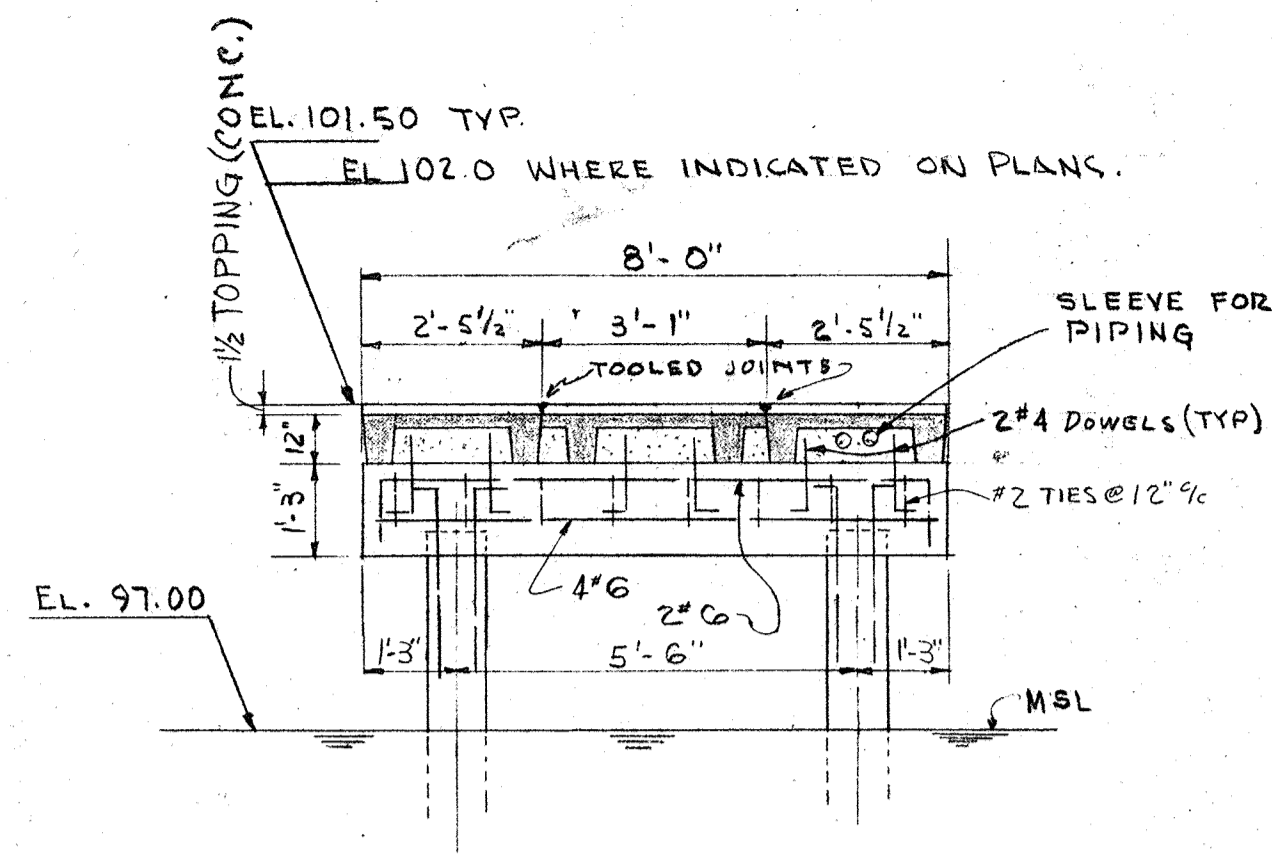


DOWEL SECOND FOUR TO PILE CAP
DOWEL PC DECK UNIT TO SECOND FOUR
OMIT DOWELS ONE SIDE AND INSERT 1/2
P.M. EVERY SIXTH JOINT

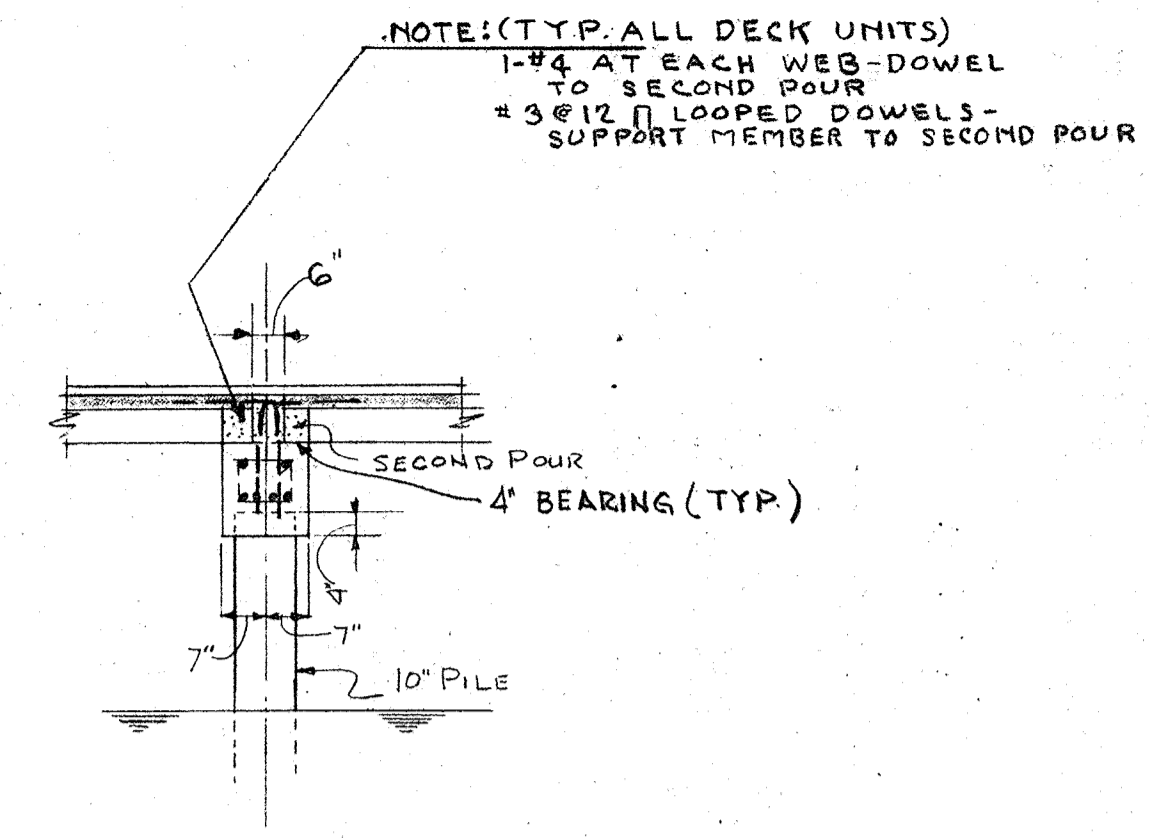
NOTE: FOR GENERAL NOTES SEE SHEET 5 OF 31

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
3	2-6-62	REVISE FRAMES REVISE PILE LAYOUT AND SIZE (REVISE DIMENSION OF FRAME N°2)	DE	LH
2	12-8-61	REVISE SECTION (C) AND (E) ADD FRAME N°3A DELETE SCREEN WALL	R.A.	LFN
1	4/13/61	SCREEN WALL	B.J.A.	LFN

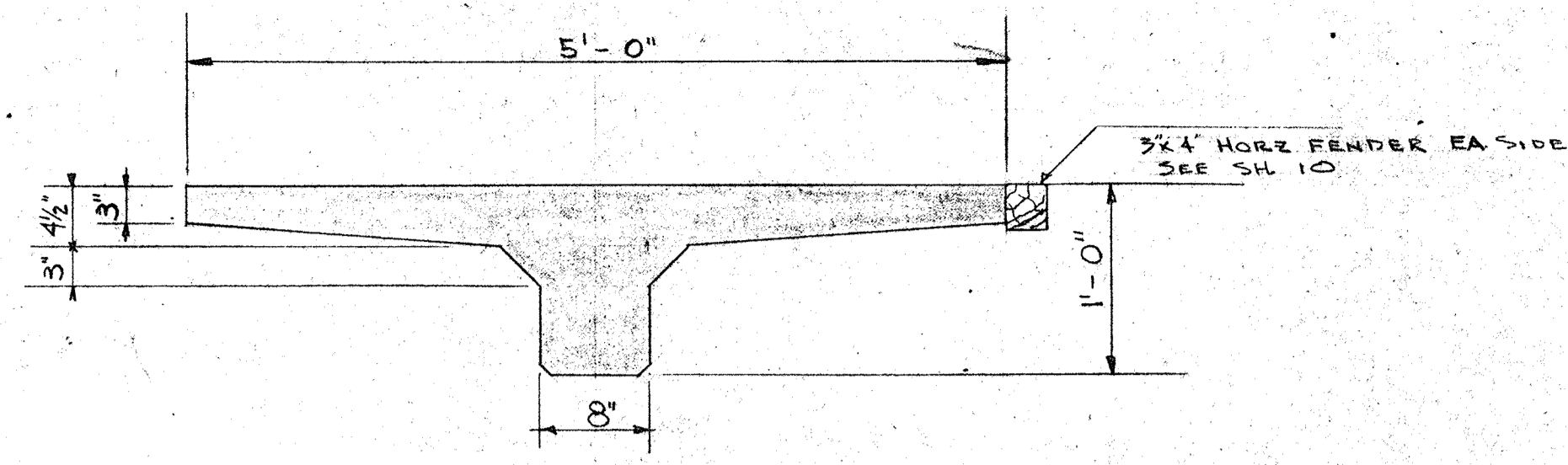
CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DRAWN D.M.S.
COVERED SLIPS - SOUTH WALL SECTIONS AND DETAILS		CHECKED LEN
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS MIAMI, FLORIDA		APPROVED LEN
APPROVED FOR RADER AND ASSOCIATES		SCALE AS SHOWN
FILE NO. SP-4506		DATE APRIL 1961
REGISTERED ENGINEER NO. 717 STATE OF FLORIDA		FILE NO. SP-4508-108



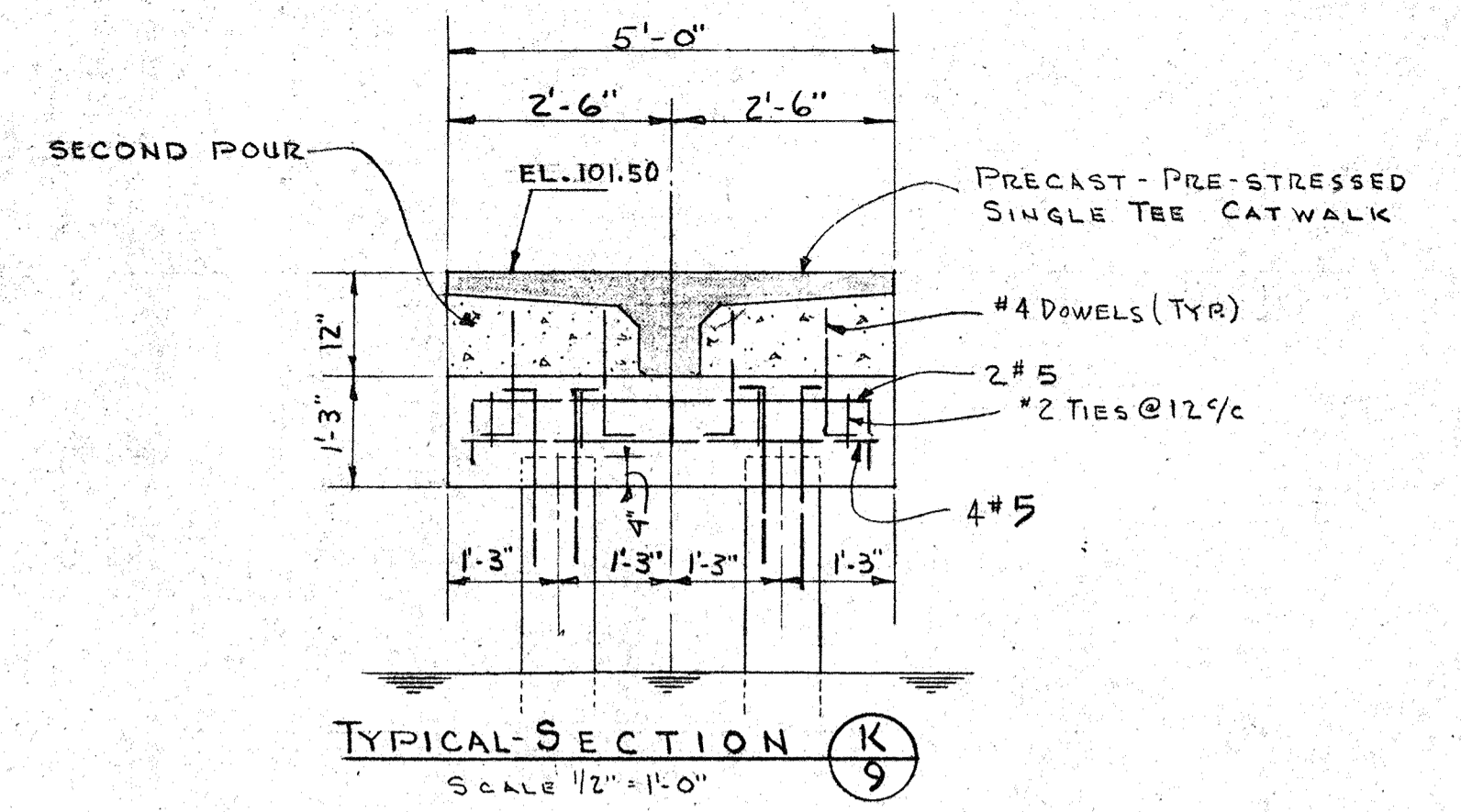
TYPICAL-SECTION **L/9**



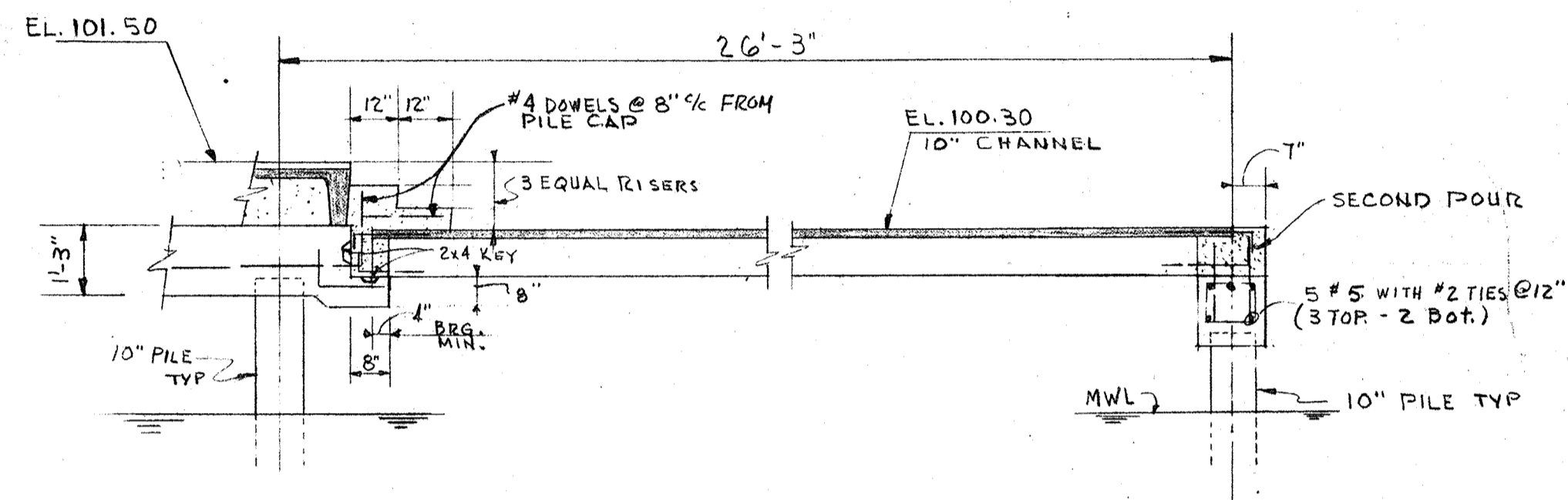
ELEVATION AT PILE CAP



TYPICAL PRECAST-PRESTRESSED SINGLE TEE
SCALE 1" = 1'-0"
COMMERCIAL SLIP CATWALK

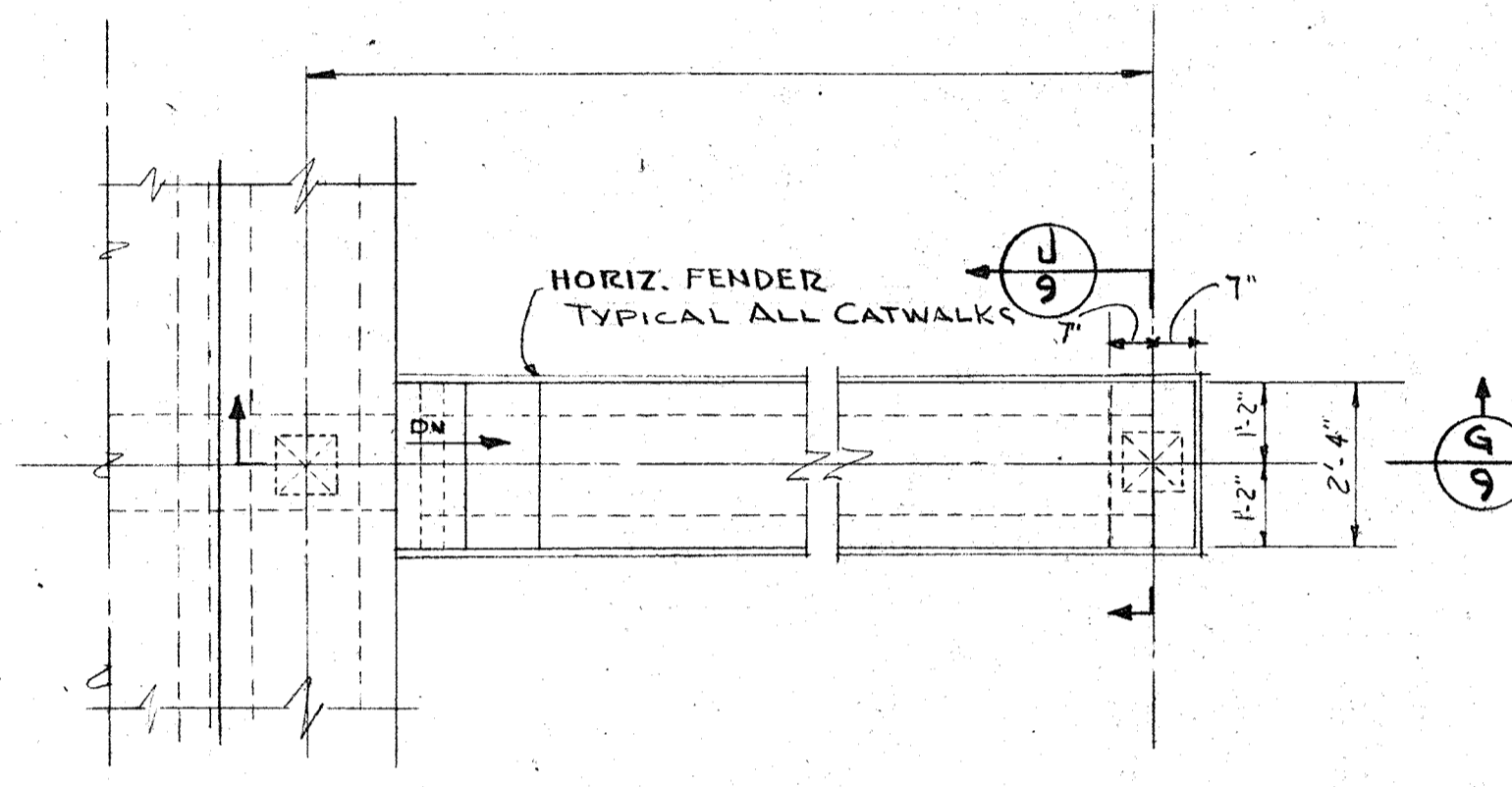


TYPICAL-SECTION **K/9**
SCALE 1/2" = 1'-0"

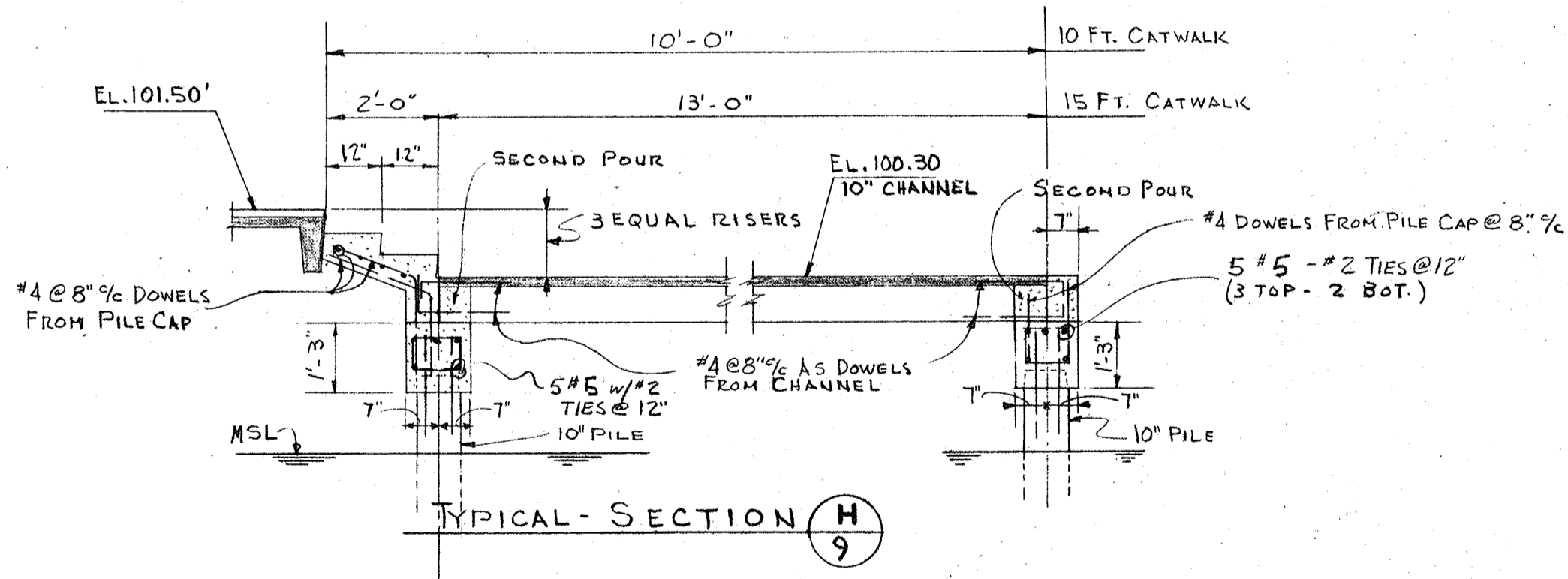


TYPICAL-SECTION **G/9**

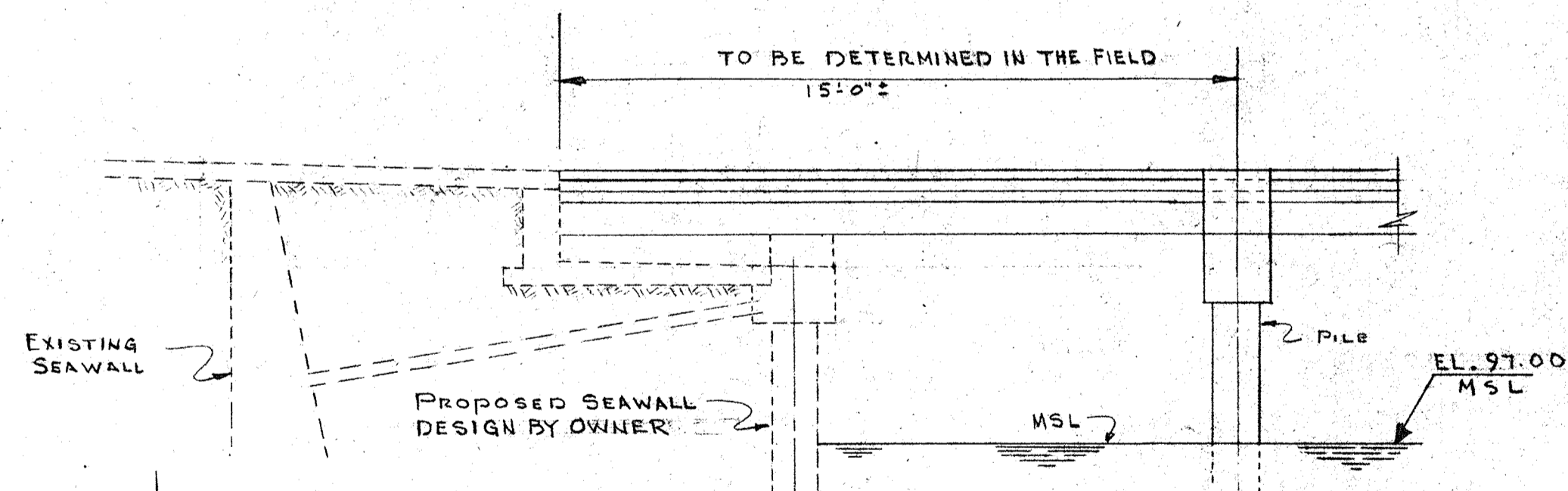
TYPICAL 25 FT. CATWALK
SCALE 3/8" = 1'-0"



PLAN (CATWALK AT PILE CAP)



TYPICAL-SECTION **H/9**

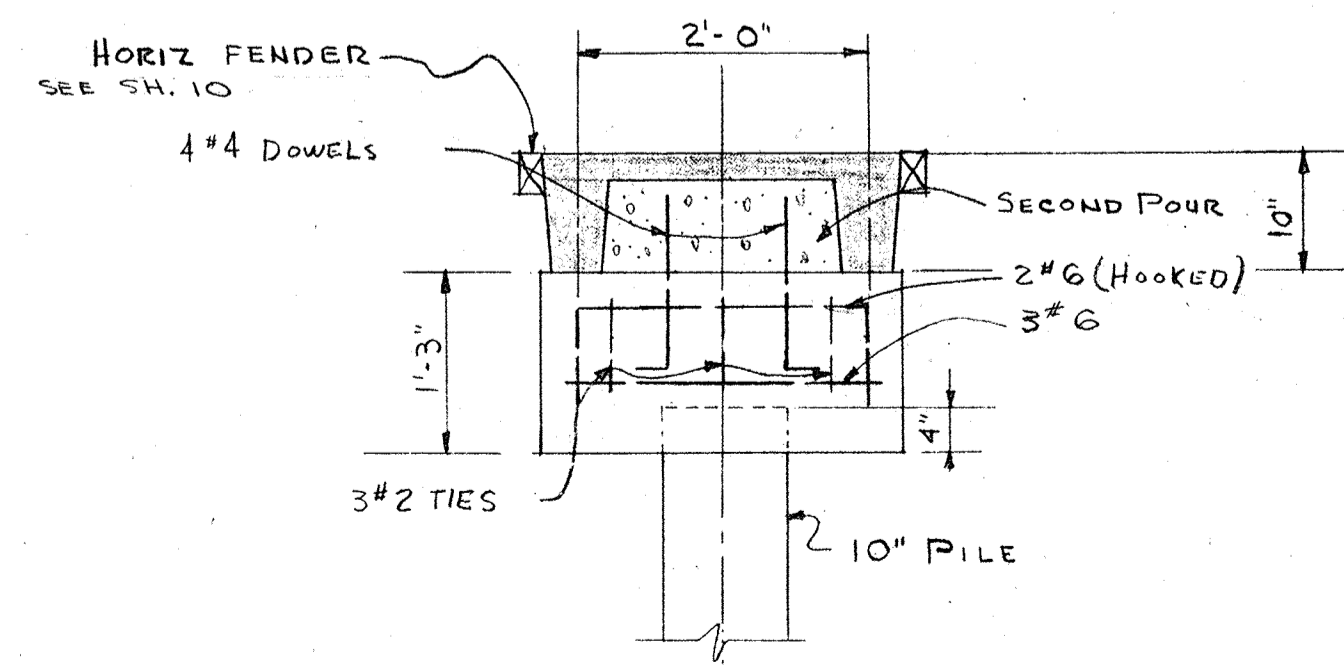


NOTE:
PIER CONNECTION TO PROPOSED SEAWALL;
DETAIL DRAWINGS SHALL BE SUBMITTED TO
ENGINEER FOR APPROVAL BY SUCCESSFUL
BIDDER

TYPICAL CROSS SECTION - NEW SEAWALL (PROPOSED)
N.T.S.

NOTE: AT OPEN BOAT SLIPS ONLY

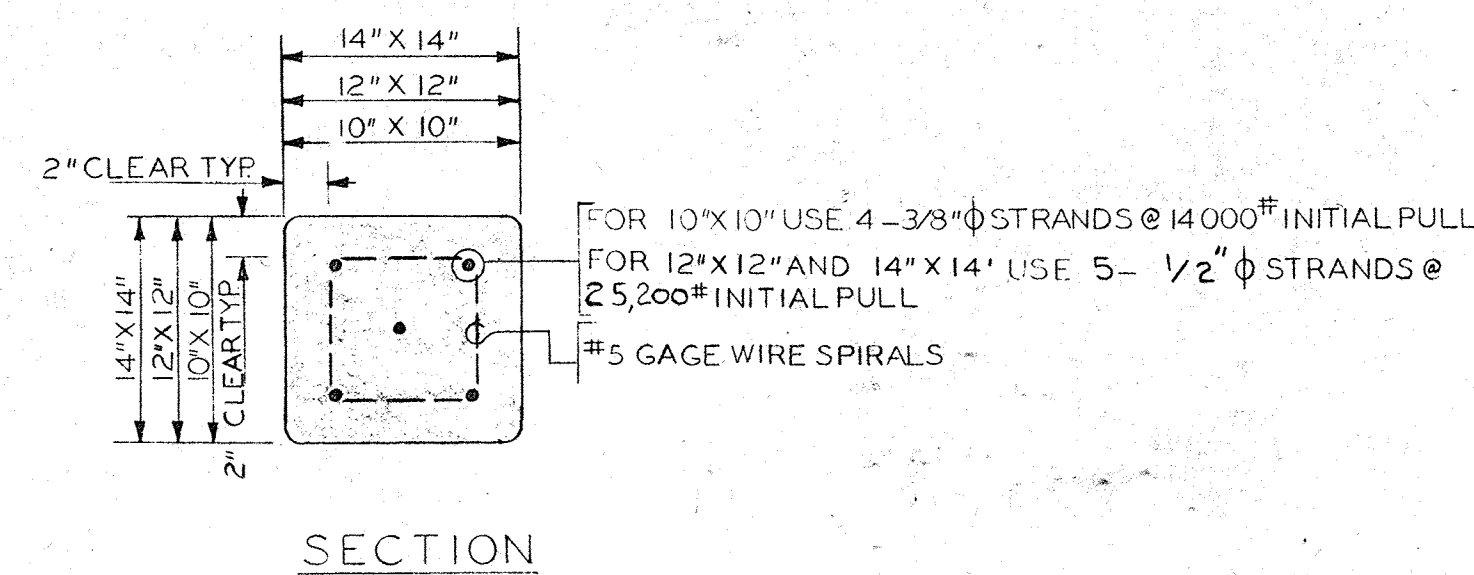
NOTE:
FOR GENERAL NOTES SEE SHEET NO 5



TYPICAL-SECTION **J/9**

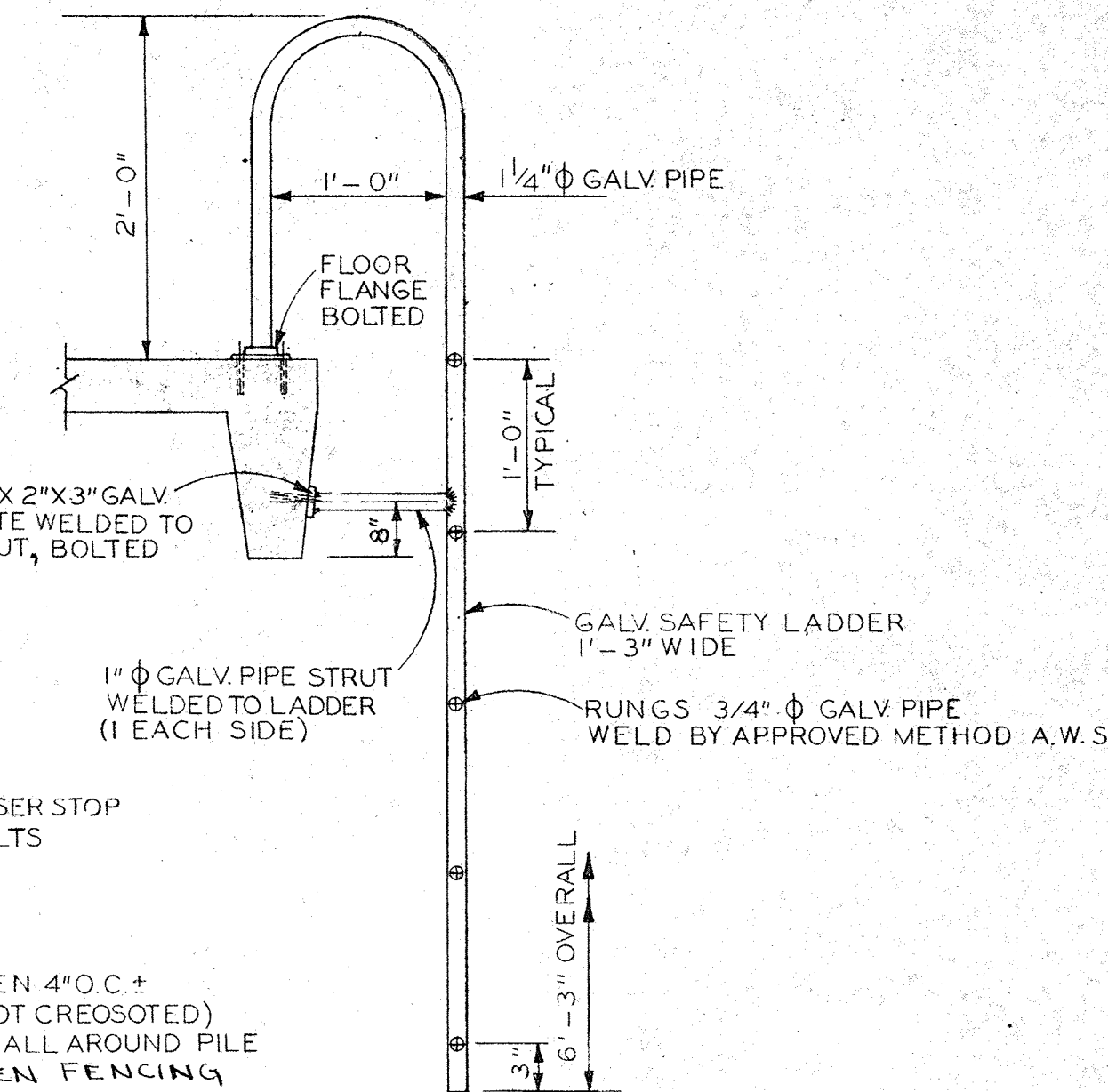
CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED D.M.S.
PIER ASSEMBLY DETAILS		DRAWN D.M.S.
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS — MIAMI, FLORIDA —		CHECKED L.F.N.
APPROVED FOR RADER AND ASSOCIATES		APPROVED L.F.N.
BY <i>[Signature]</i>		SCALE AS SHOWN
REGISTERED ENGINEER NO. 717 STATE OF FLORIDA		JOB NO. SP-4506
NO. DATE DESCRIPTION CHK'D. APP'R'D		FILE NO. SP-4506-109

NO.	DATE	DESCRIPTION	CHK'D.	APP'R'D

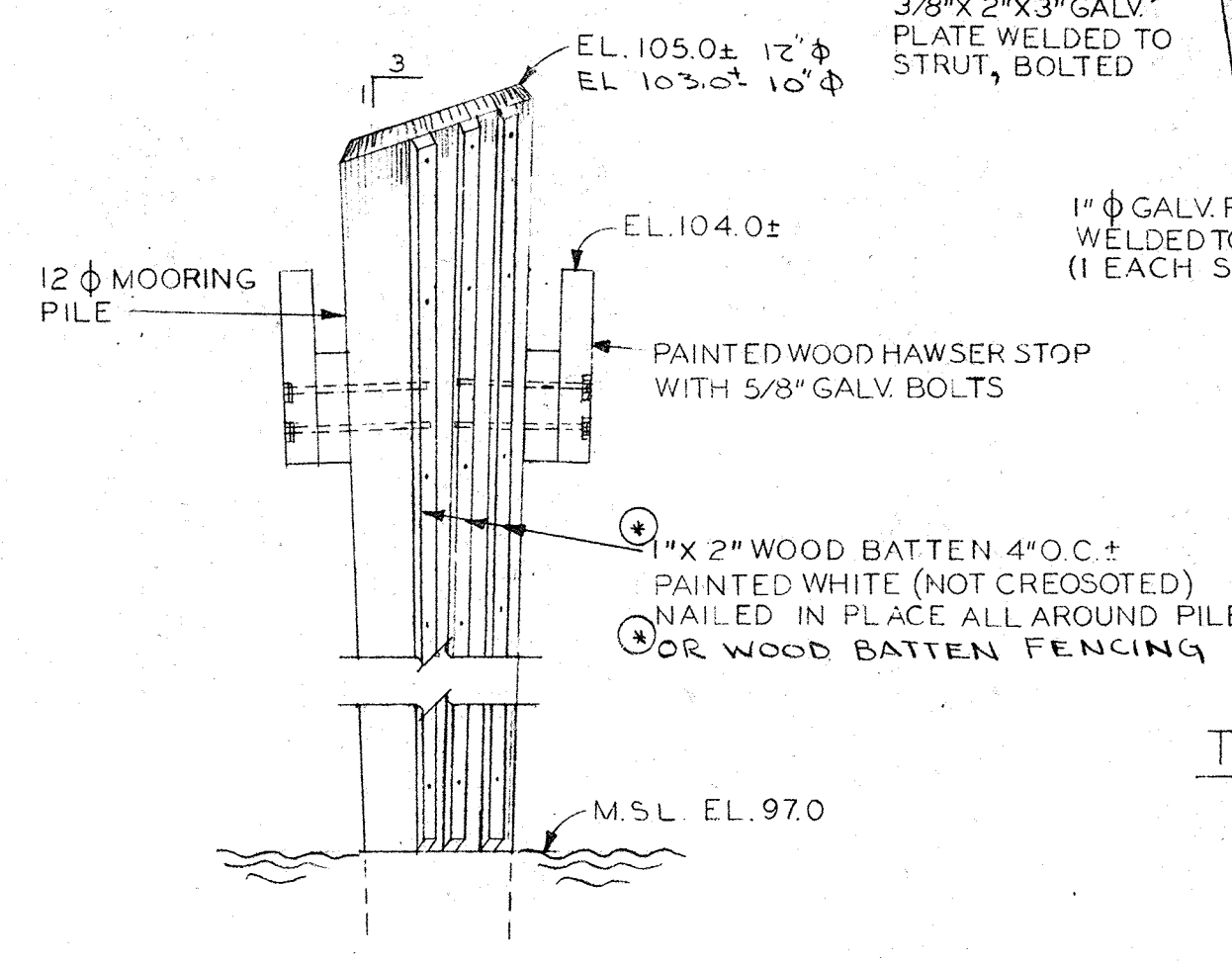


FOR 10" X 10" USE 4-3/8" Ø STRANDS @ 14000# INITIAL PULL
 FOR 12" X 12" AND 14" X 14" USE 5- 1/2" Ø STRANDS @ 25,200# INITIAL PULL
 #5 GAGE WIRE SPIRALS

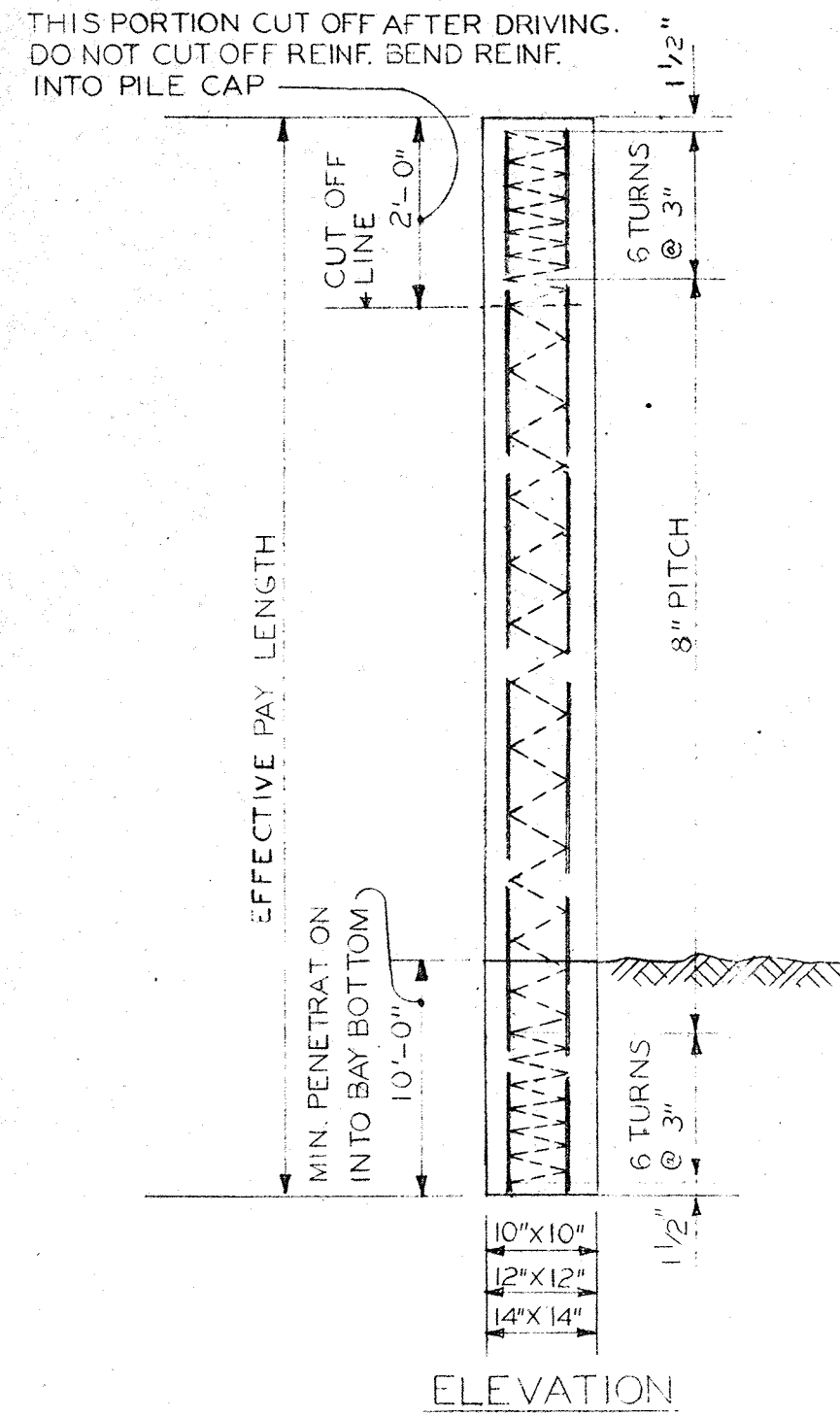
SECTION



TYPICAL SAFTY LADDER DETAIL
NO SCALE

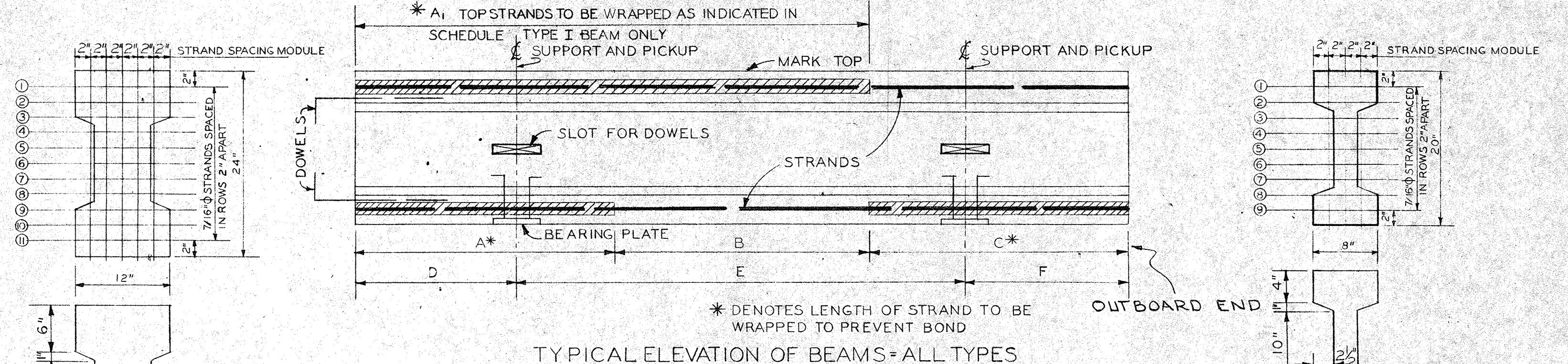


TYPICAL MOORING PILE DETAIL
NO SCALE



ELEVATION

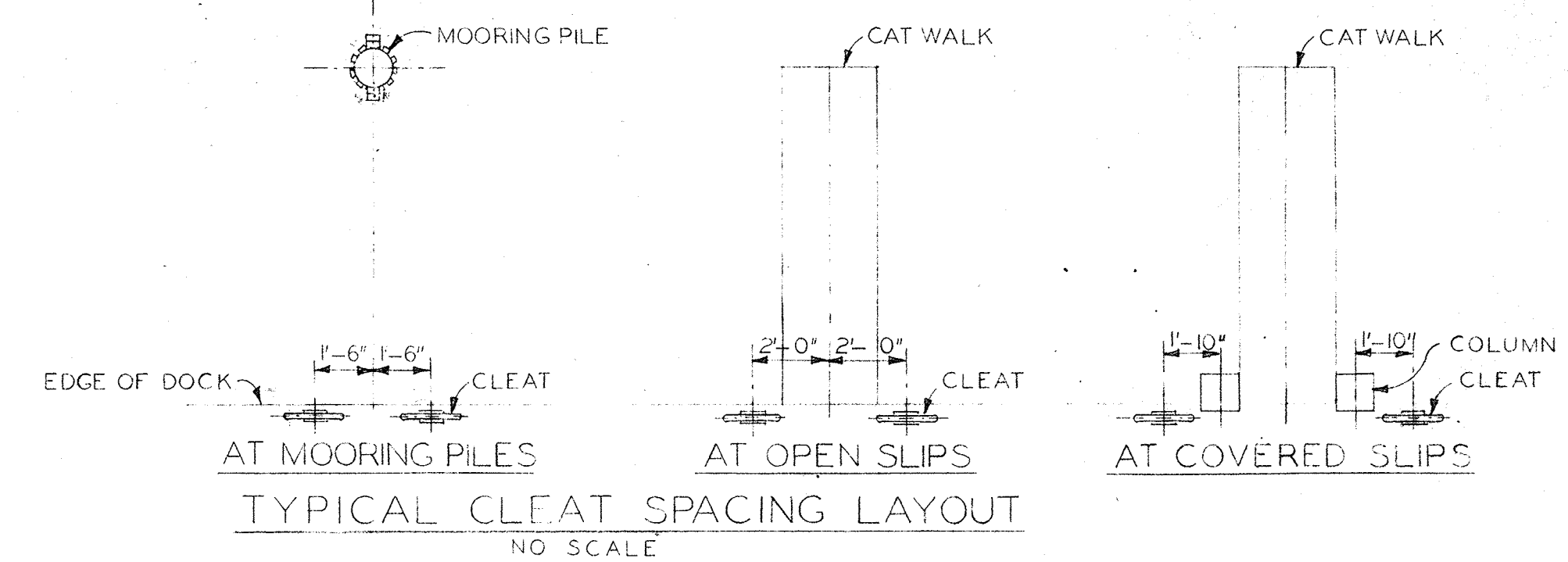
DETAIL OF TYPICAL PRECAST PRESTRESSED CONCRETE PILES
NO SCALE



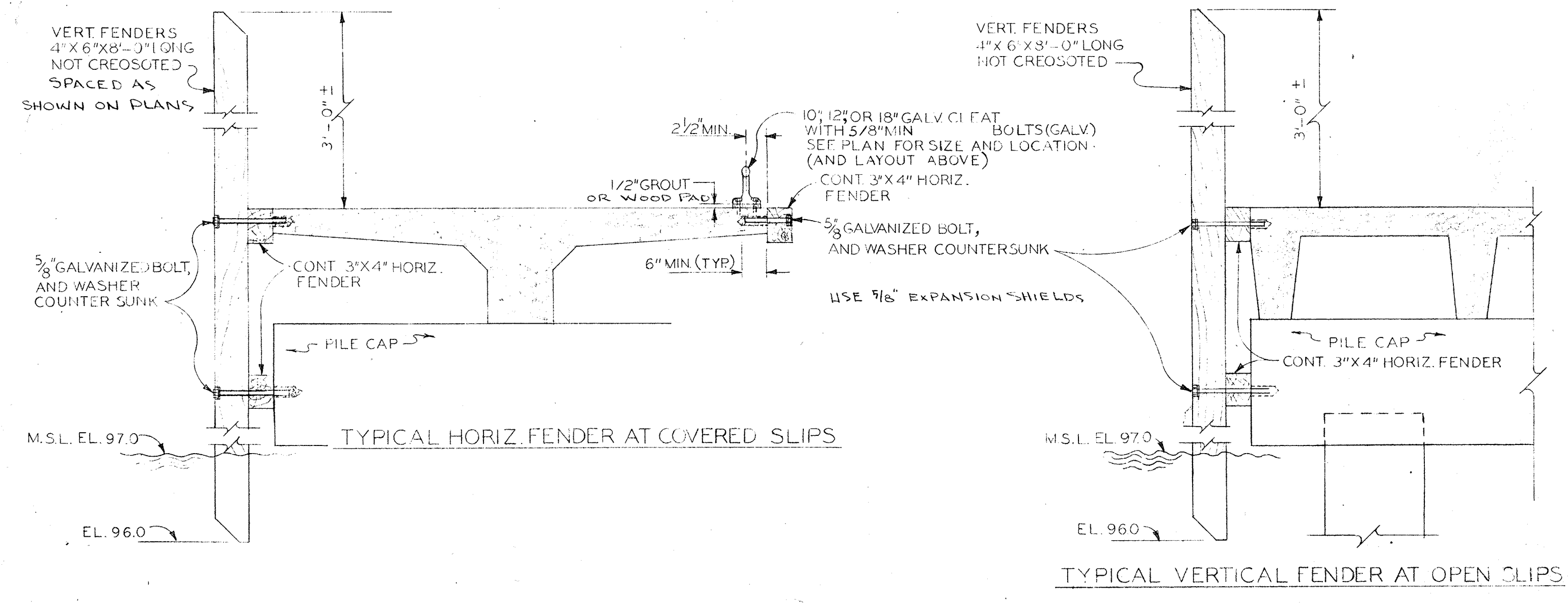
TYPICAL ELEVATION OF BEAMS = ALL TYPES

BEAM TYPE	QUANTITY OF STRANDS		STRAND WRAPPING			SPAN DIMENSIONS			REMARKS	
	ROW NO.	*STRANDS PER ROW	A ₁	A	B	C	D	E		F
I	1	5	(2)	22'-11"	31'-0"	17'-6"	2'-6 1/2"	35'-2 1/2"	13'-0 1/8"	A ₁ LENGTH OF TOP STRANDS 1 1/2' TO BE WRAPPED.
	2	5	(4)	22'-11"	31'-0"	17'-6"	2'-6 1/2"	35'-2 1/2"	13'-0 1/8"	
	3	5	(2)	22'-11"	31'-0"	17'-6"	2'-6 1/2"	35'-2 1/2"	13'-0 1/8"	
	4	5	(2)	22'-11"	31'-0"	17'-6"	2'-6 1/2"	35'-2 1/2"	13'-0 1/8"	
II	9	4	(1)	22'-11"	21'-7"	20'-13'-6"	2'-6 1/2"	25'-1 1/2"	10'-0 3/4"	
	11	4	(4)	22'-11"	21'-7"	20'-13'-6"	2'-6 1/2"	25'-1 1/2"	10'-0 3/4"	
II B	9	4	(1)	22'-11"	21'-7"	20'-13'-6"	5'-6 3/8"	25'-1 1/2"	10'-0 3/4"	
	11	4	(4)	22'-11"	21'-7"	20'-13'-6"	5'-6 3/8"	25'-1 1/2"	10'-0 3/4"	
III A	8	3	(1)	22'-11"	15'-7"	18'-11'-0"	5'-6 3/8"	22'-1 3/8"	8'-0 1/2"	
	9	3	(3)	22'-11"	15'-7"	18'-11'-0"	5'-6 3/8"	22'-1 3/8"	8'-0 1/2"	

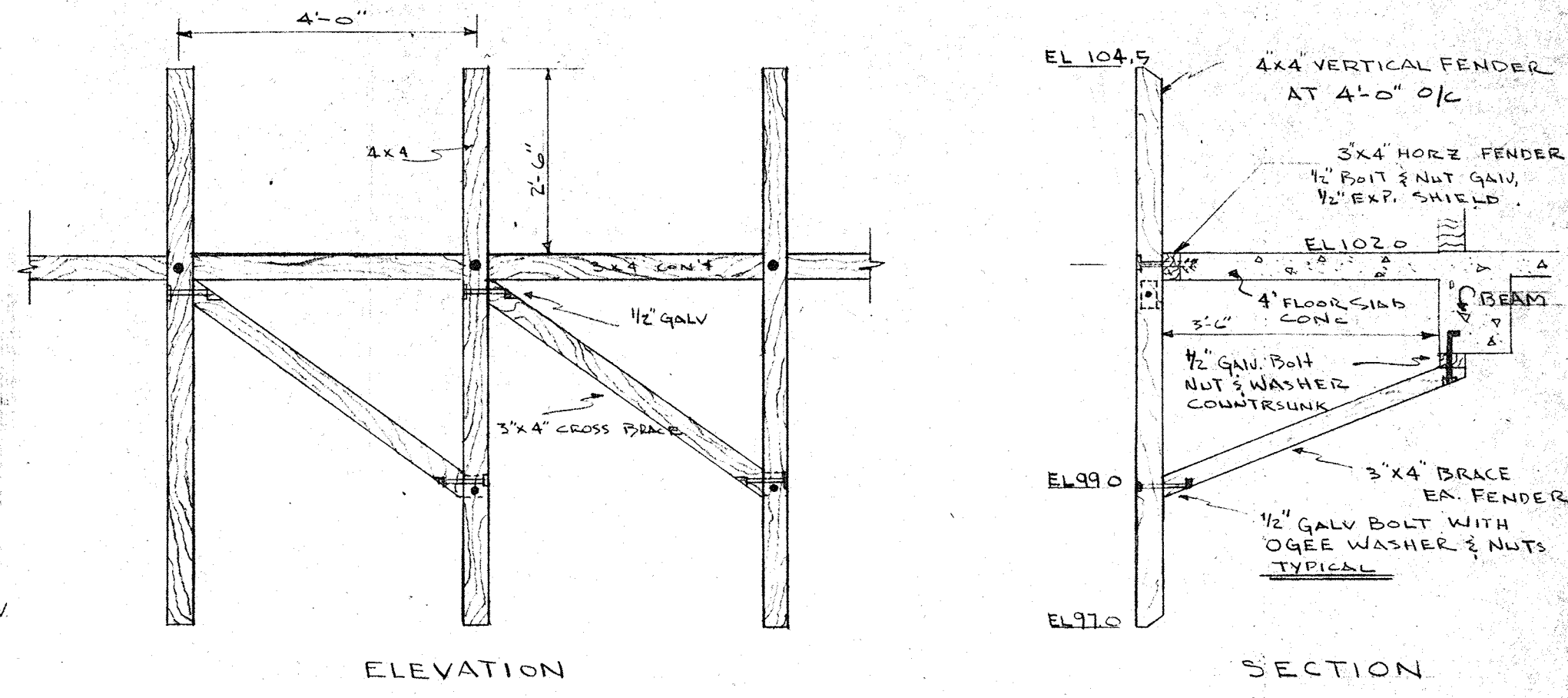
* UNLESS OTHERWISE INDICATED IN SCHEDULE THIS (2); ALL STRANDS SHALL BE BONDED THROUGHOUT ENTIRE LENGTH. NUMBER IN PARENTHESIS () INDICATES NO. OF STRANDS TO BE WRAPPED.



TYPICAL CLEAT SPACING LAYOUT
NO SCALE



TYPICAL FENDER DETAILS
NO SCALE



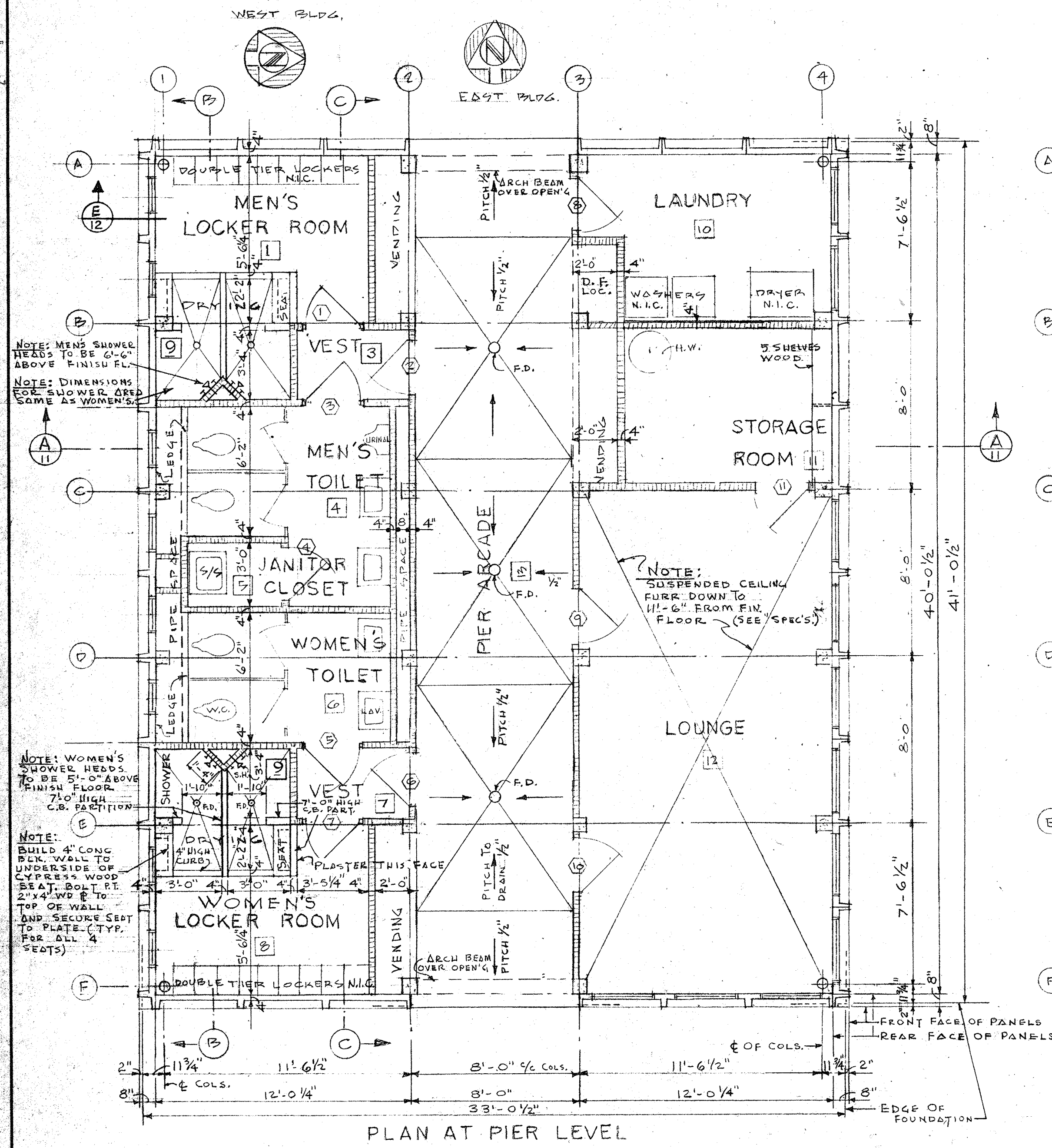
FENDER SYSTEM AT YACHT BROKERS OFFICE
NO SCALE

NOTE: ALL FENDER TIMBERS TREATED, NOT CREOSOTED. SEE SPECS.

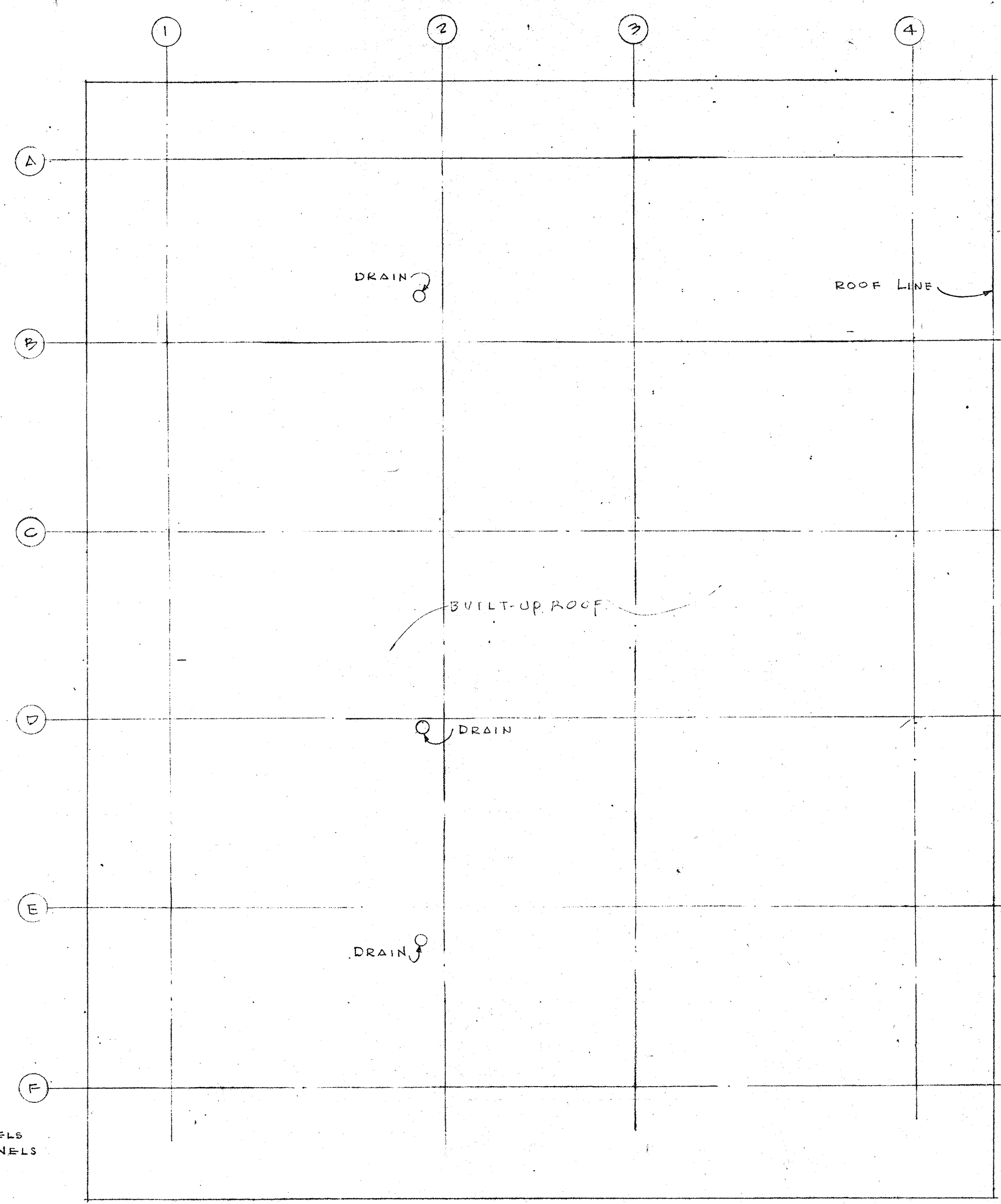
NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
2	2-62	REVISE PILE STRANDS.	DT	LW
12-B-81		REVISE STRAND WRAPPING (DELETE BEAMS II A & III FROM SCHEDULE)	RF	LFN

REVISIONS

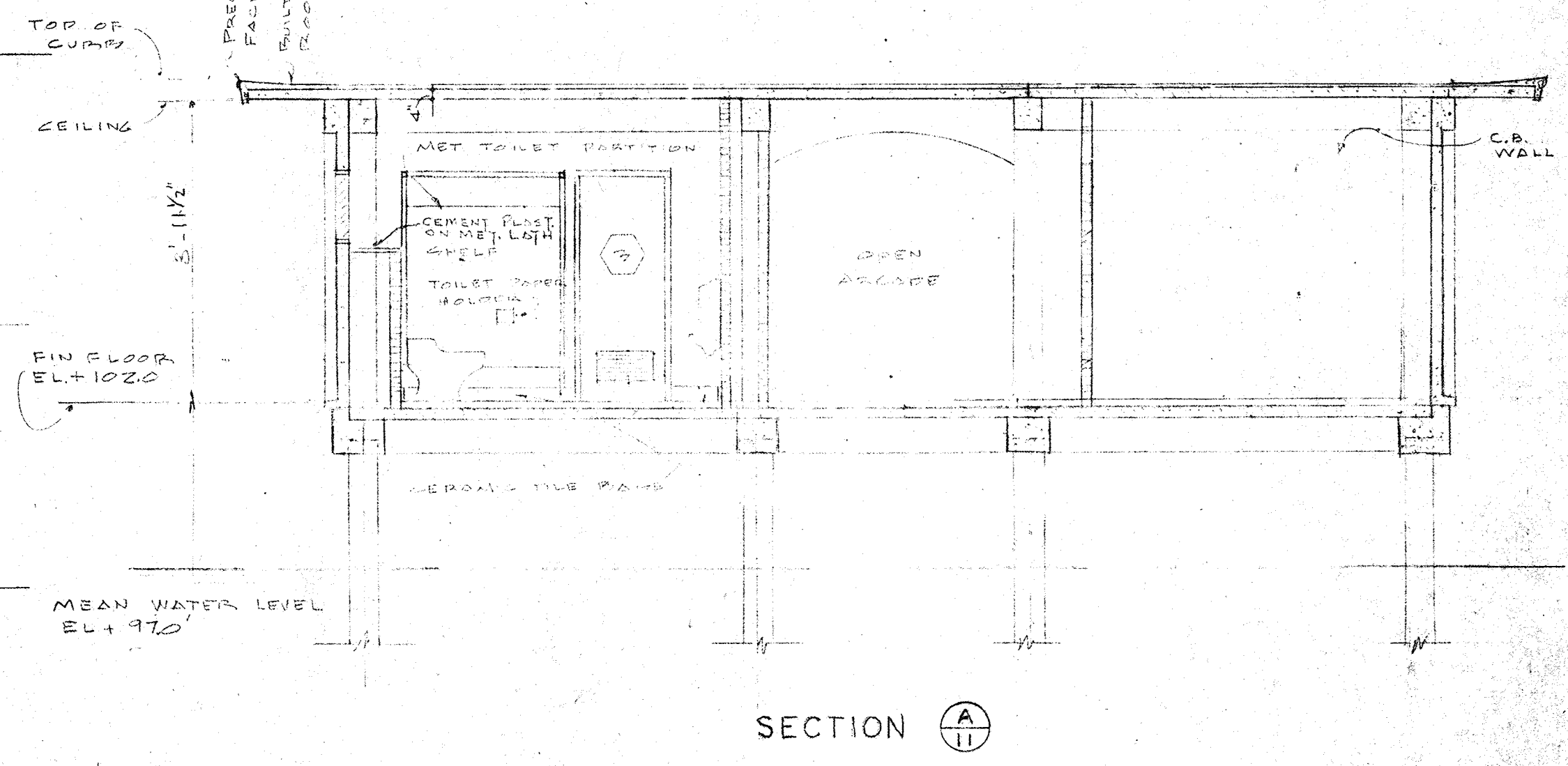
CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED LT
MOORING HARDWARE AND FENDERS PLANS AND DETAILS		DRAWN CE
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS - MIAMI, FLORIDA		CHECKED <i>[Signature]</i>
APPROVED FOR RADER AND ASSOCIATES		APPROVED LFN
REGISTERED ENGINEER NO. 517 STATE OF FLORIDA		SCALE AS SHOWN
JOB NO. SP-4506		FILE NO. SP-4506-110



PLAN AT PIER LEVEL



MAIN ROOF PLAN



SECTION A-A

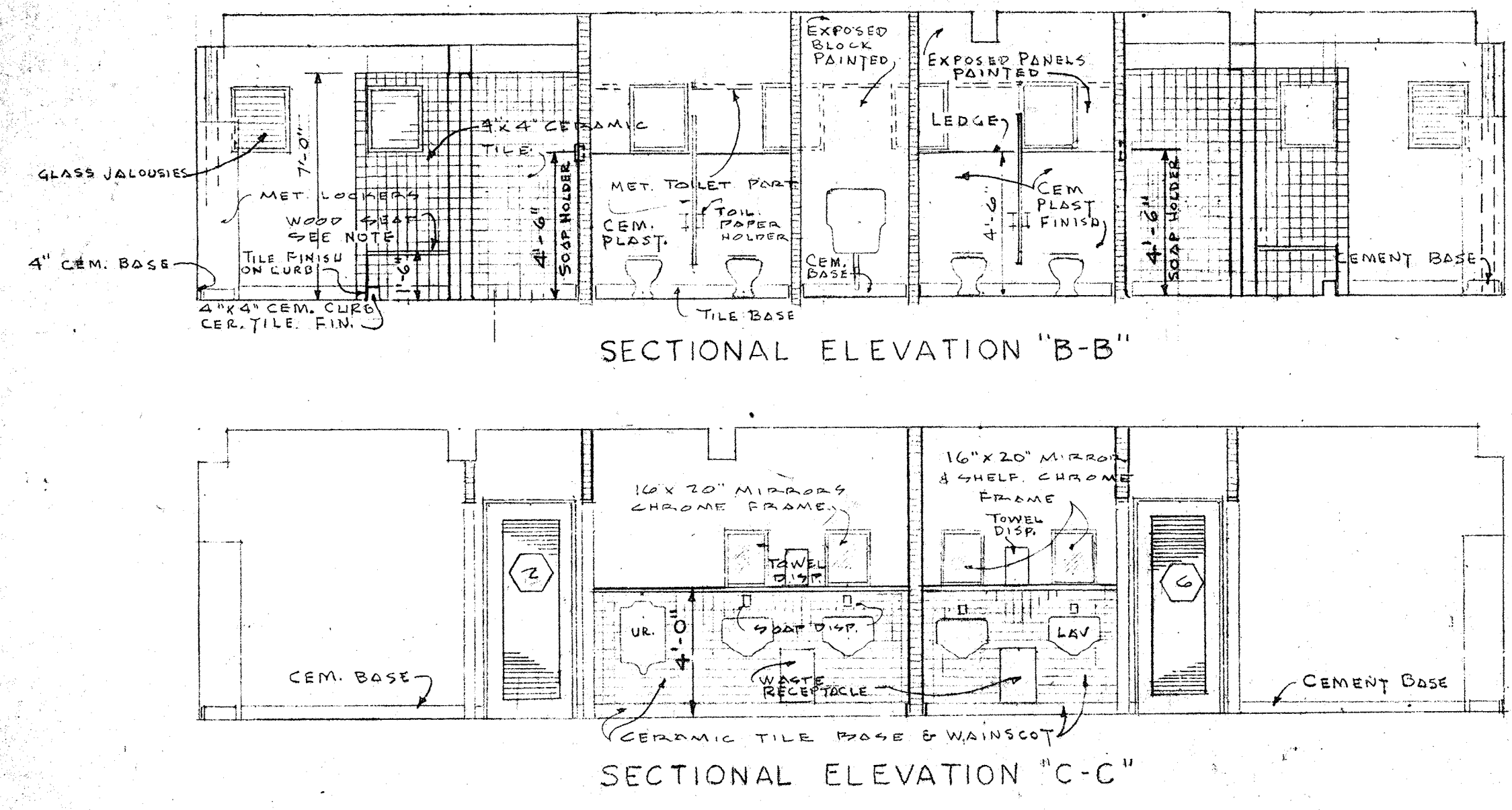
ROOM FINISH SCHEDULE

RM. NO.	ROOM	FLOOR	BASE	WAINSCOT	WALLS		CEILING		WINDOW STOLS	REMARKS
					MAT'L. FINISH	MAT'L. FINISH				
PLAN AT PIER LEVEL (1ST FLOOR)										
1	MEN'S LOCKER RM	CEMENT	CEMENT	NONE	CEMENT	PAINT	CONC.	PAINT	CONC.	CEMENT PLASTER ON CONC. BLOCK
2	SHOWERS	TILE-SEE NOTE 4	TILE	7'-0" HIGH CER. TILE	DO	DO	DO	DO	DO	SEE SECTIONAL ELEVATION 'B-B' FOR WAINSCOT
3	VESTIBULE	CEM.	CEM.	NONE	DO	DO	DO	DO	DO	CEMENT PLASTER ON CONC. BLOCK
4	MEN'S TOI.	TILE	TILE	4'-0" TILE (WALL ONLY)	DO	DO	DO	DO	CONC.	SEE SECTIONAL ELEVATION 'C-C' FOR WAINSCOT
5	JAN. CL.	CEM.	CEM.	NONE	DO	DO	DO	DO	DO	SEE SECTIONAL ELEVATION 'C-C' FOR WAINSCOT
6	WOMEN'S TOILET	TILE	TILE	4'-0" TILE (WALL ONLY)	DO	DO	DO	DO	CONC.	SEE SECTIONAL ELEVATION 'C-C' FOR WAINSCOT
7	VESTIBULE	CEM.	CEM.	NONE	DO	DO	DO	DO	DO	CEMENT PLASTER ON CONC. BLOCK
8	WOMEN'S LOCKER RM	DO	DO	DO	DO	DO	DO	DO	CONC.	CEM. PLASTER ON CONC. BLOCK ONLY
9	SHOWERS	TILE-SEE NOTE 4	TILE	7'-0" HIGH TILE	DO	DO	DO	DO	DO	SEE SECTIONAL ELEV. 'B-B' FOR WAINSCOT
10	LAUNDRY	CEM.	CEM.	NONE	DO	DO	DO	DO	DO	CEM. PLAST. ON CONC. BLOCK ONLY
11	STORAGE	CEM.	NONE	DO	DO	DO	DO	DO	DO	CEMENT PLAST. ON CONC. BLOCK ONLY
12	LOUNGE	ABSESIOS VINYL	RUBBER	DO	DO	DO	SUSP. ACUSTIC	FACTORY	CONC.	CEMENT PLAST. ON CONC. BLOCK ONLY
13	PIER ARCADE	CEM.	CEM.	DO	STUCCO	DO	CONC.	PAINT	DO	

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	JAMB TYPE	SIZE	MAT'L.	THRESH.	REMARKS
PLAN AT PIER LEVEL (1ST FLOOR)						
1	FLUSH	WOOD	2'-0" x 6'-8" x 1 3/4"	WOOD	---	20" x 12" WOOD LOUVER
2	LOUVER	DO	DO	DO	---	FULL LOUVER, SCREENED
3	FLUSH	DO	DO	DO	MARBLE	20" x 12" WOOD LOUVER
4	DO	DO	DO	DO	---	DO
5	DO	DO	DO	DO	MARBLE	20" x 12" WOOD LOUVER
6	LOUVER	DO	DO	DO	---	FULL LOUVER, SCREENED
7	FLUSH	DO	DO	DO	---	20" x 12" WOOD LOUVER
8	LOUVER	DO	2'-8" x 6'-8" x 1 3/4"	DO	---	FULL LOUVER, SCREENED
9	DO	DO	DO	DO	MARBLE	DO
10	DO	DO	DO	DO	MARBLE	DO
11	FLUSH	DO	DO	DO	---	20" x 12" WOOD LOUVERS

- NOTES:
- 1) VENDING AREAS TO RECEIVE SAME ROOM FINISH CALLED FOR IN PIER ARCADE ADJOINING.
 - 2) PAINT UNDERSIDE OF EAVES WITH WATER PAINT.
 - 3) REMOVABLE HARDWOOD DUCKBOARDS TO BE FURNISHED & INSTALLED IN DRYING AREAS OF SHOWERS.
 - 4) TILE WAINSCOTE 7'-0" HIGH TO BE ON ALL WALLS OF SHOWER INCLUDING DRYING AREA, AND ON TOP OF AND ENDS OF 7'-0" HIGH C.B. PARTITIONS, UNLESS SHOWN OTHERWISE.
 - 5) DETAIL OF CEMENT BASE SHOWN ON SH. # 12
 - 6) INTERIOR DOOR FRAME DETAILS SIMILAR TO THOSE SHOWN ON SHEET # 16
 - 7) JALOUSIE SASH DETAILS SIMILAR TO THOSE SHOWN ON SH. # 20



SECTIONAL ELEVATION "B-B"

SECTIONAL ELEVATION "C-C"

CITY OF ST. PETERSBURG FLORIDA
CENTRAL YACHT BASIN MARINA
 CENTRAL FACILITIES BUILDING
 ARCHITECTURAL PLANS AND SECTIONS

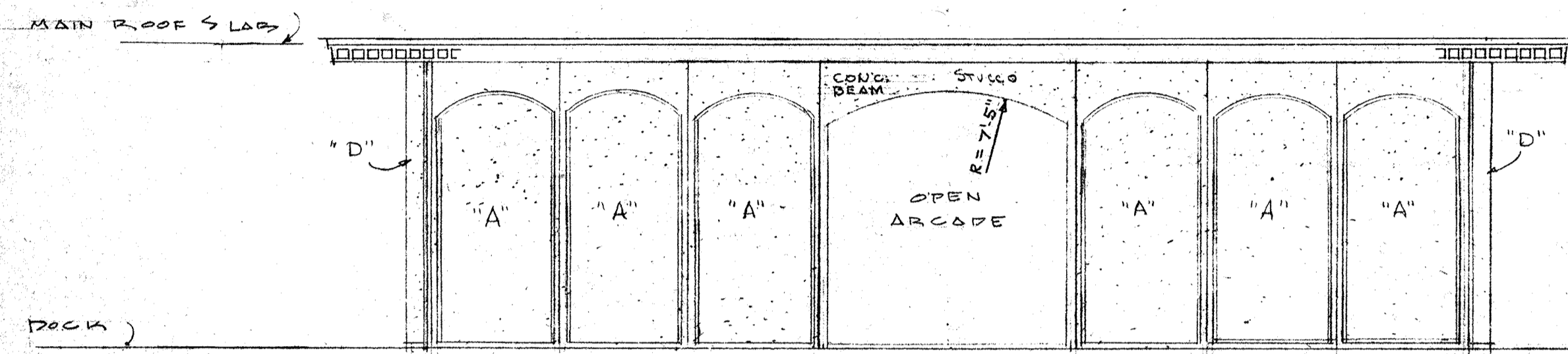
RADER AND ASSOCIATES
 ENGINEERS AND ARCHITECTS
 KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA
 ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA
 WASHINGTON, D. C. — COCAL, FLORIDA

DATE: APRIL 1961
 DESIGNED: BJA
 DRAWN: W.T.M., F.W.V.
 CHECKED: BJA
 APPROVED: A.F.N.
 SCALE: AS SHOWN
 JOB NO.: SP-4506
 FILE NO.: SP-4506-III

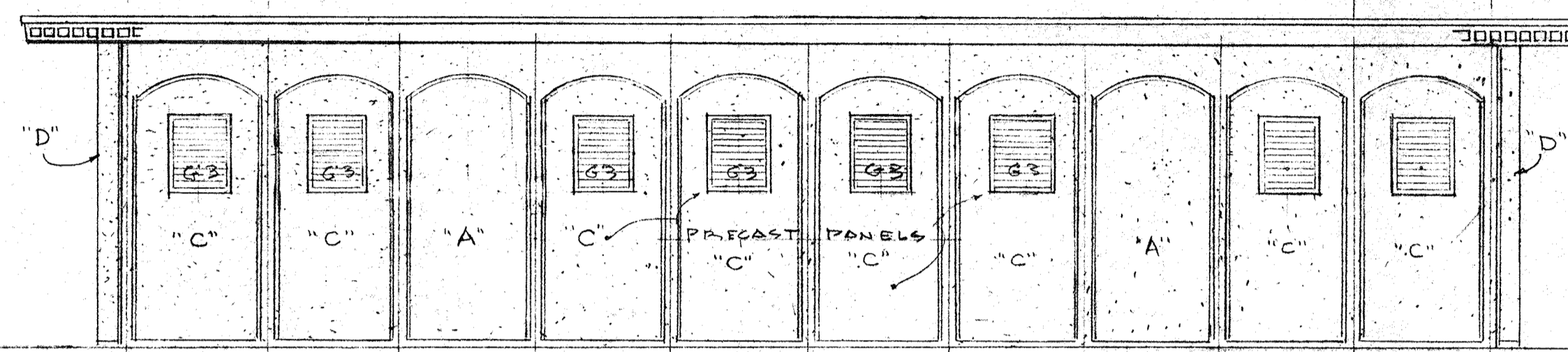
REGISTERED ARCHITECT NO. 1387 STATE OF FLORIDA

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
1	4/13/61	GENERAL	BJA	LFN

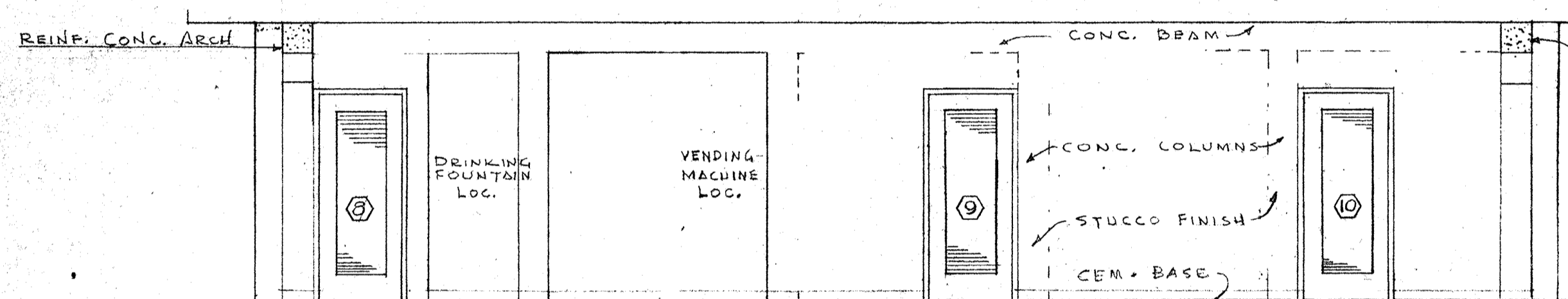
REVISIONS



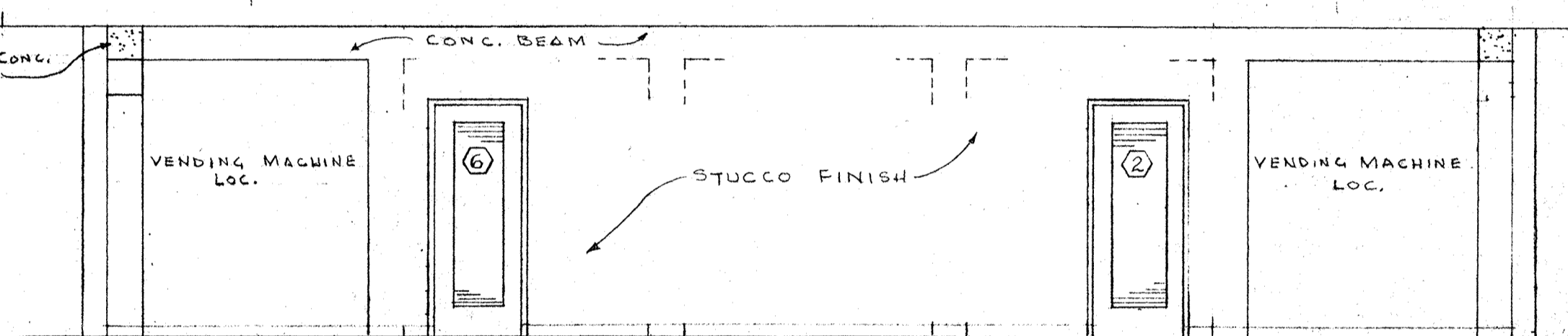
NORTH ELEVATION



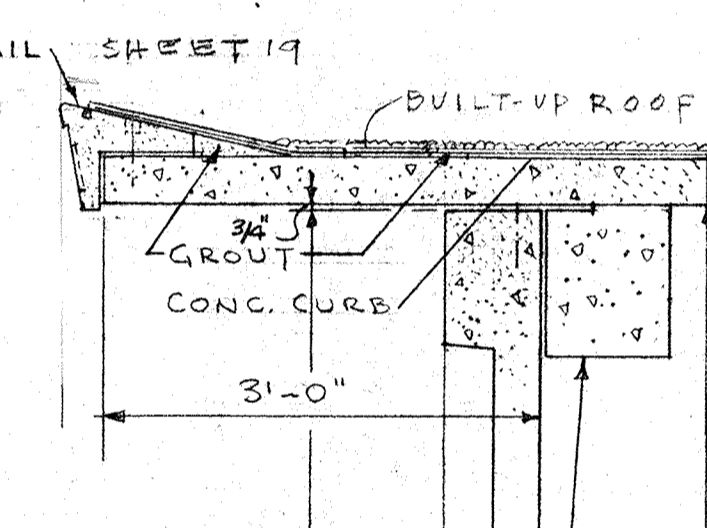
WEST ELEVATION



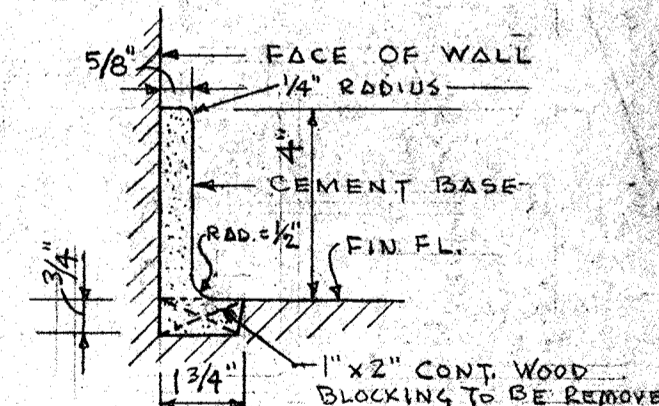
ELEVATION OF ARCADE WALL



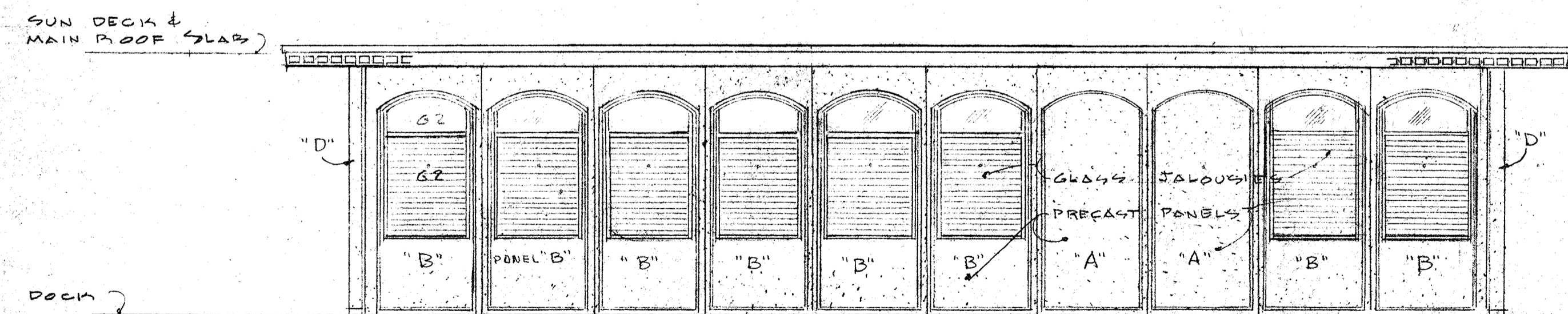
ELEVATION OF ARCADE WALL



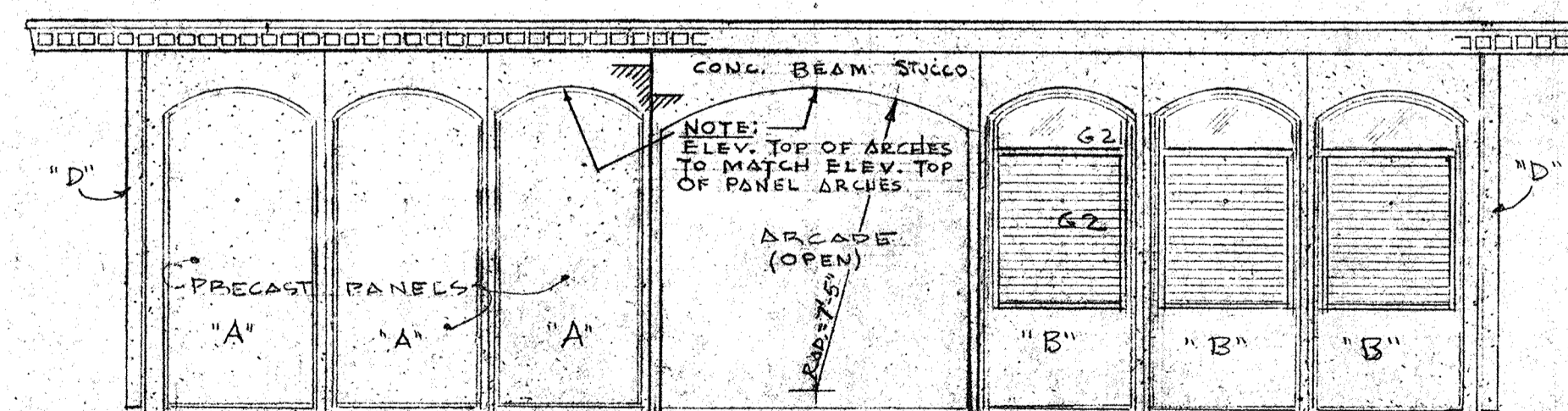
SECTION THRU PRE-CAST CONC. RAILING & POST
SCALE: 3/4" = 1'-0"



DETAIL OF CEMENT BASE
SCALE: 3" = 1'-0"



EAST ELEVATION



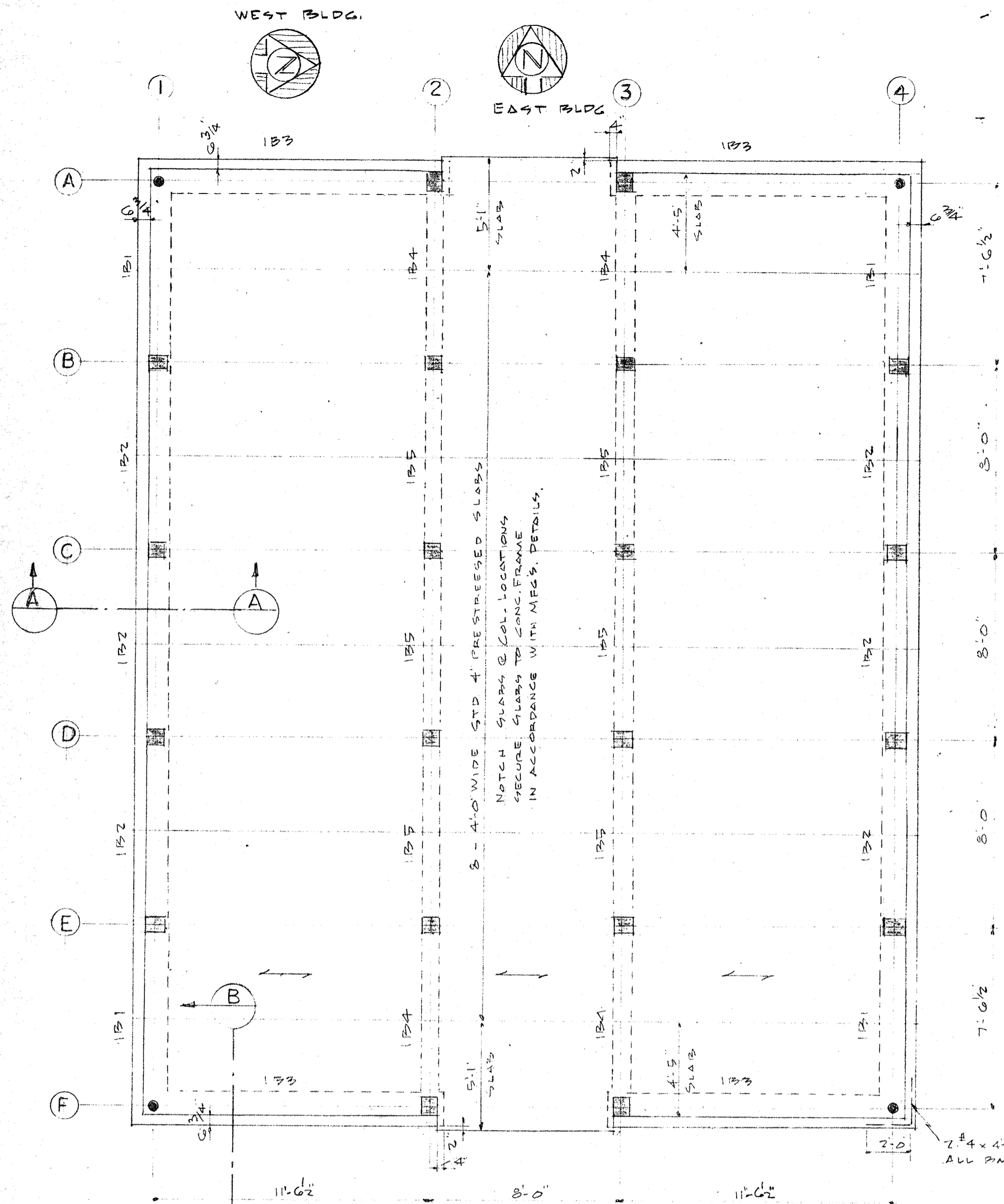
SOUTH ELEVATION

SECTION (E) SCALE: 3/4" = 1'-0"

NOTE: ALL ELEVATIONS SCALE: 3/4" = 1'-0"

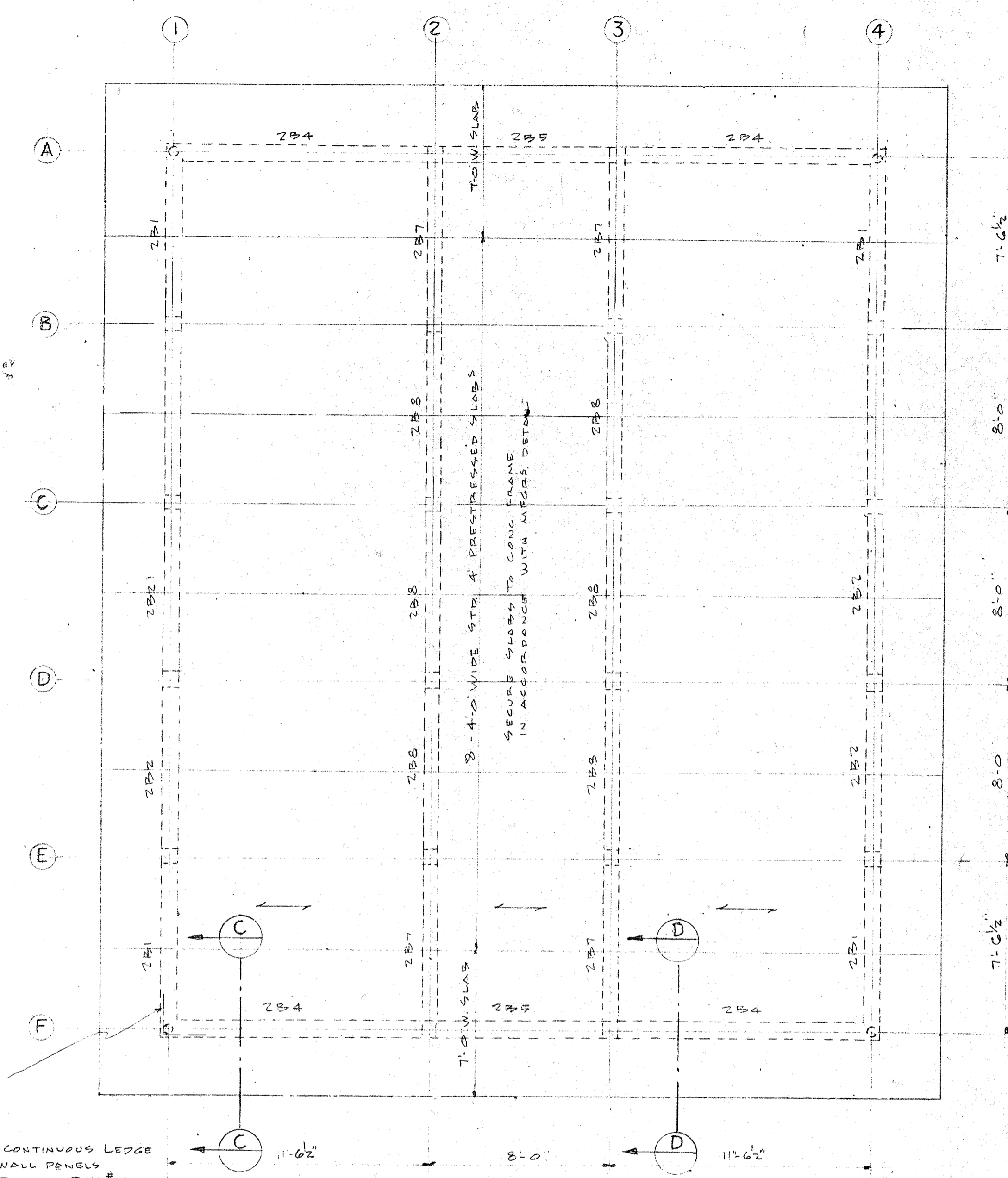
NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
1	6/13/61	GENERAL	BJA	LFN
REVISIONS				

CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED BJA
CENTRAL FACILITIES BUILDING		DRAWN W.T.M. F.V.V.
ARCHITECTURAL ELEVATIONS AND DETAILS		CHECKED BJA
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS		APPROVED L.F.N.
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.		SCALE AS SHOWN
ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCOA, FLORIDA		JOB NO. SP-4506
APPROVED FOR RADER AND ASSOCIATES BY <i>Arnold W. Eckhoff</i> REGISTERED ARCHITECT NO. 1387 STATE OF FLORIDA		FILE NO. SP-4506-112



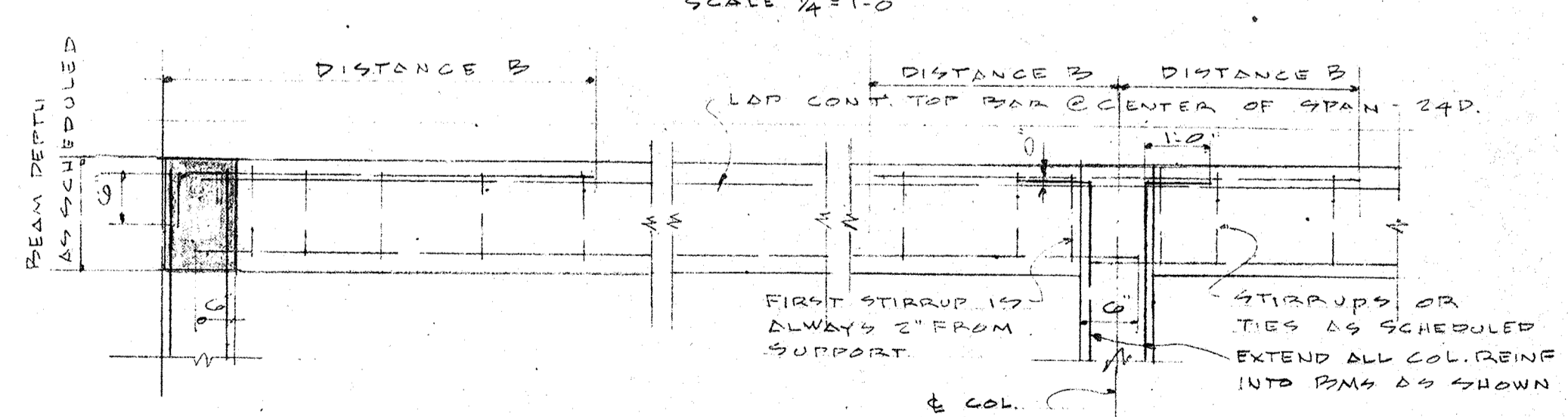
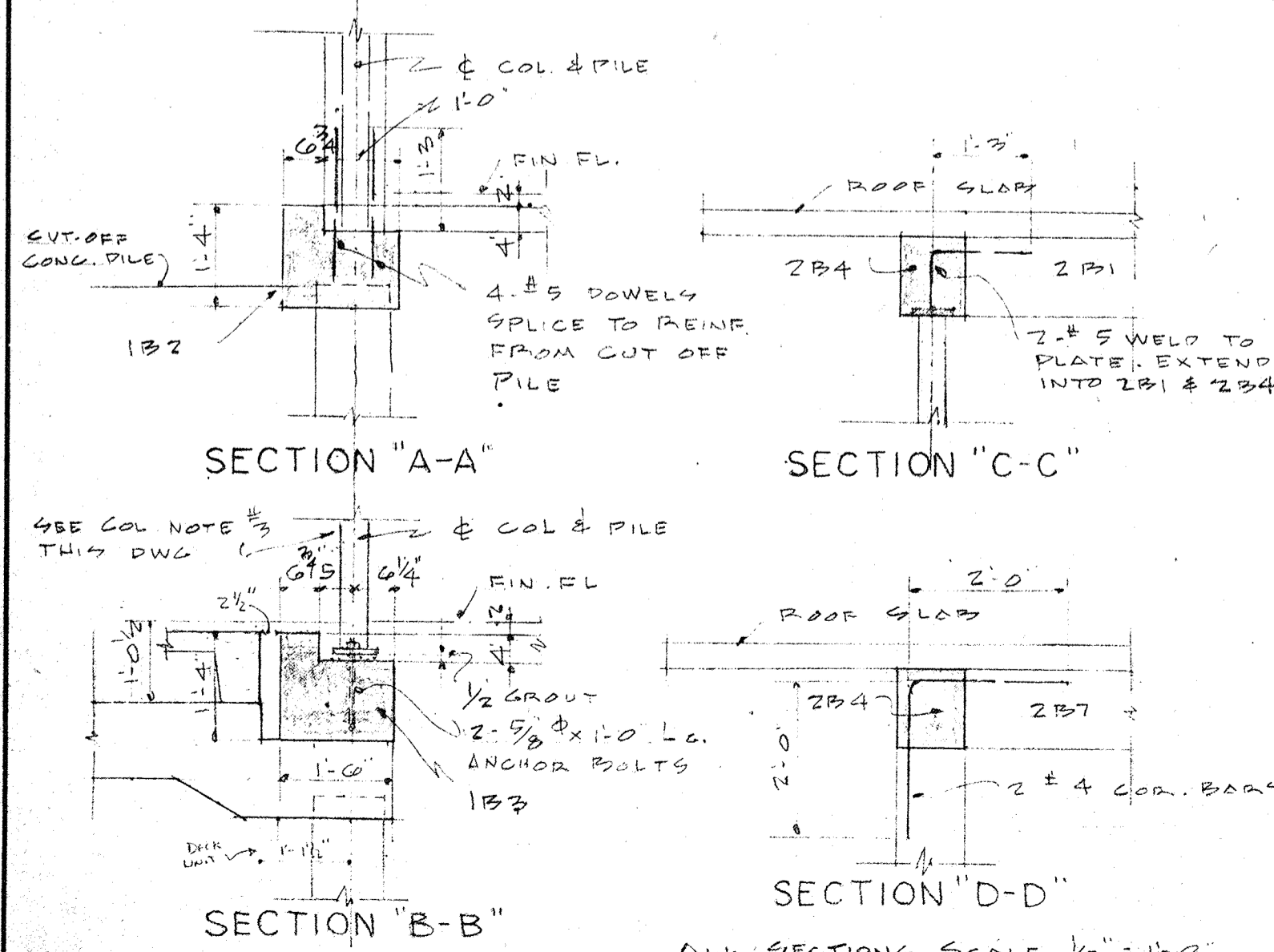
PIER LEVEL FRAMING PLAN
(1ST FLOOR)

NOTE: SCALE 1/4" = 1'-0"
SEE DWG #485 FOR CONCRETE PILE SIZE & LOCATION



MAIN ROOF FRAMING PLAN

SCALE 1/4" = 1'-0"



BEAM-TYPICAL REINFORCING DETAILS
NOT TO SCALE

COLUMN NOTES

- 1 CONCRETE COLUMNS 8"x10" THROUGHOUT. REINFORCED WITH 4-#5 VERT. & #2 TIES @ 12" C.C.
- 2 PROVIDE 4-#5 DOWELS IN BEAMS @ CONC. COL. LOCATIONS AT FIRST FLOOR LEVEL.
- 3 COLS A1, A4, F1 & F4 TO BE 3/2" φ 9.11" STD. STEEL PIPE CONC. FILLED WITH 6"x 3/8" x 0'-6" PLATE WELDED TO COL. TOP & BOTT. SEE SIMILAR DETAIL DWG. #18.

GENERAL STRUCTURAL NOTES:

CODES: BUILDING CODE CITY OF ST. PETERSBURG, FLA. & APPLICABLE SPECIAL CODES
DESIGN LINE LOADS: FLOORS, 100 #/SF ROOF, 20 #/SF WIND 25 #/SF
CONCRETE STRENGTH: 3750 #/SQ. REINF. STEEL 20000 #/SQ. MATERIALS SEE SPEC.
GENERAL: ALL JOINTS KEPT CHAMFER ALL EXPOSED EDGES 3/4" MIN CLEAR CONC. COVER (NOT EXPOSED TO WEATHER) 1" EXPOSED 1/2" DOWELS, PLATES, ETC. SHALL BE PLACED IN BEAMS FOR CONNECTION OF PRESTRESSED SLABS IN ACCORDANCE WITH MANUFACTURER'S DETS.

BEAM SCHEDULE

BEAM MARK	WIDTH X DEPTH INCHES	BOTTOM REINF.		TOP REINF. AT MIDSPAN	TOP REINF. AT BEAM ENDS		TIE OR STRAPUP SPACING (#3 THROUGHOUT)
		ADDED MIDSPAN BARS	FULL LENGTH BARS		BEAM END	ADDED TOP BARS AT ENDS	
1B1	18x12	---	2#6	1#5	2#6	2#5	10'0", 20'9"
1B2	18x12	---	2#6	1#5	2#6	2#5	10'0", 20'9"
1B3	8x12	---	2#6	1#5	2#6	2#5	10'0", 20'9"
1B4	14x12	---	2#6	1#5	2#6	2#5	10'0", 20'9"
1B5	14x12	---	2#6	1#5	2#6	2#5	10'0", 20'9"
2B1	10x12	---	2#5	1#4	2#6	2#4	10'0", 10'18"
2B2	10x12	---	2#5	1#4	2#6	2#4	10'0", 10'18"
2B4	10x12	---	2#5	1#4	2#6	2#4	10'0", 10'18"
2B5	10xVARIES ARCH BAY	---	2#5	1#4	2#6	2#4	10'0", 10'18"
2B7	10x12	---	2#5	1#4	2#6	2#4	10'0", 10'18"
2B8	10x12	---	2#5	1#4	2#6	2#4	10'0", 10'18"

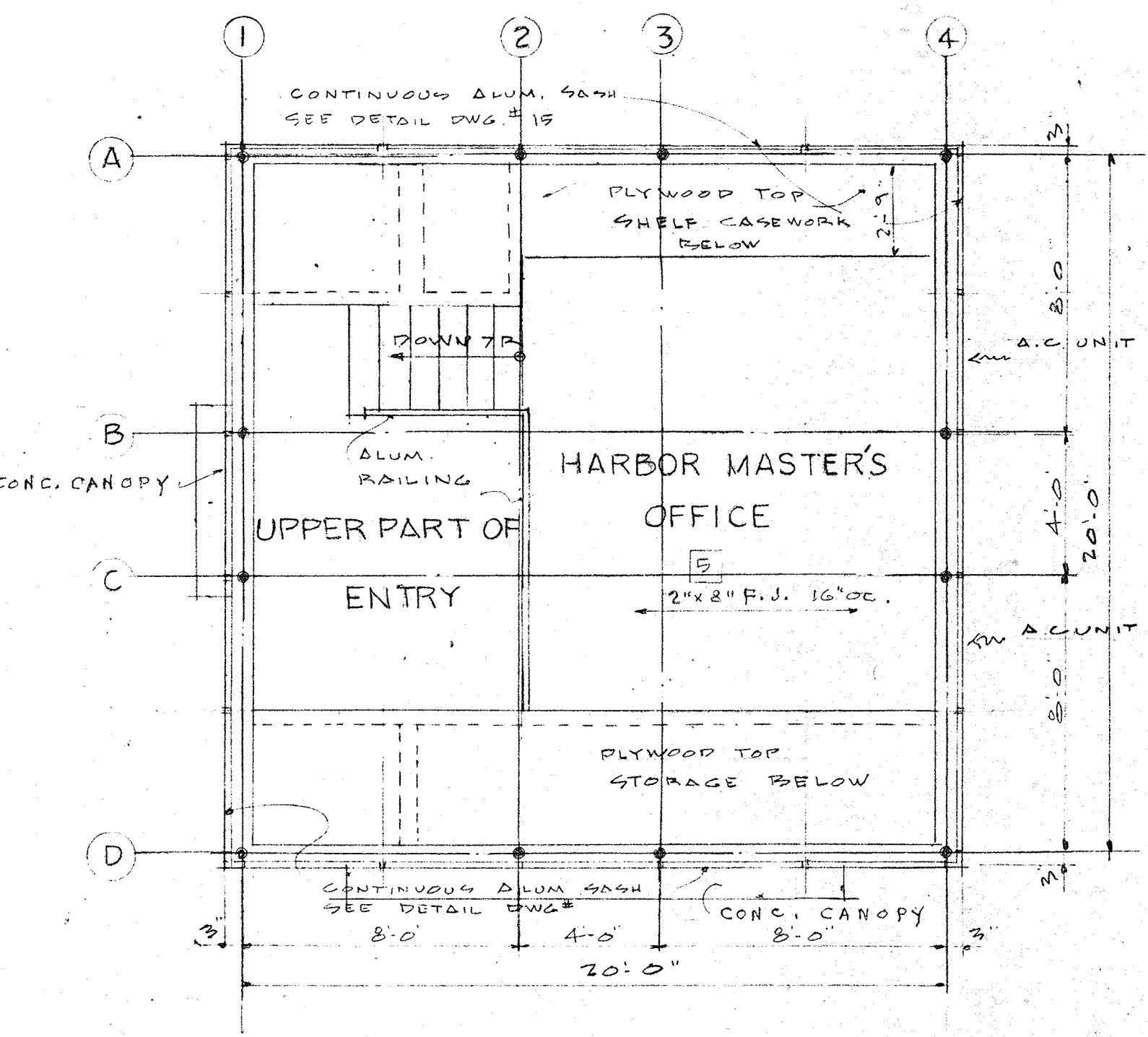
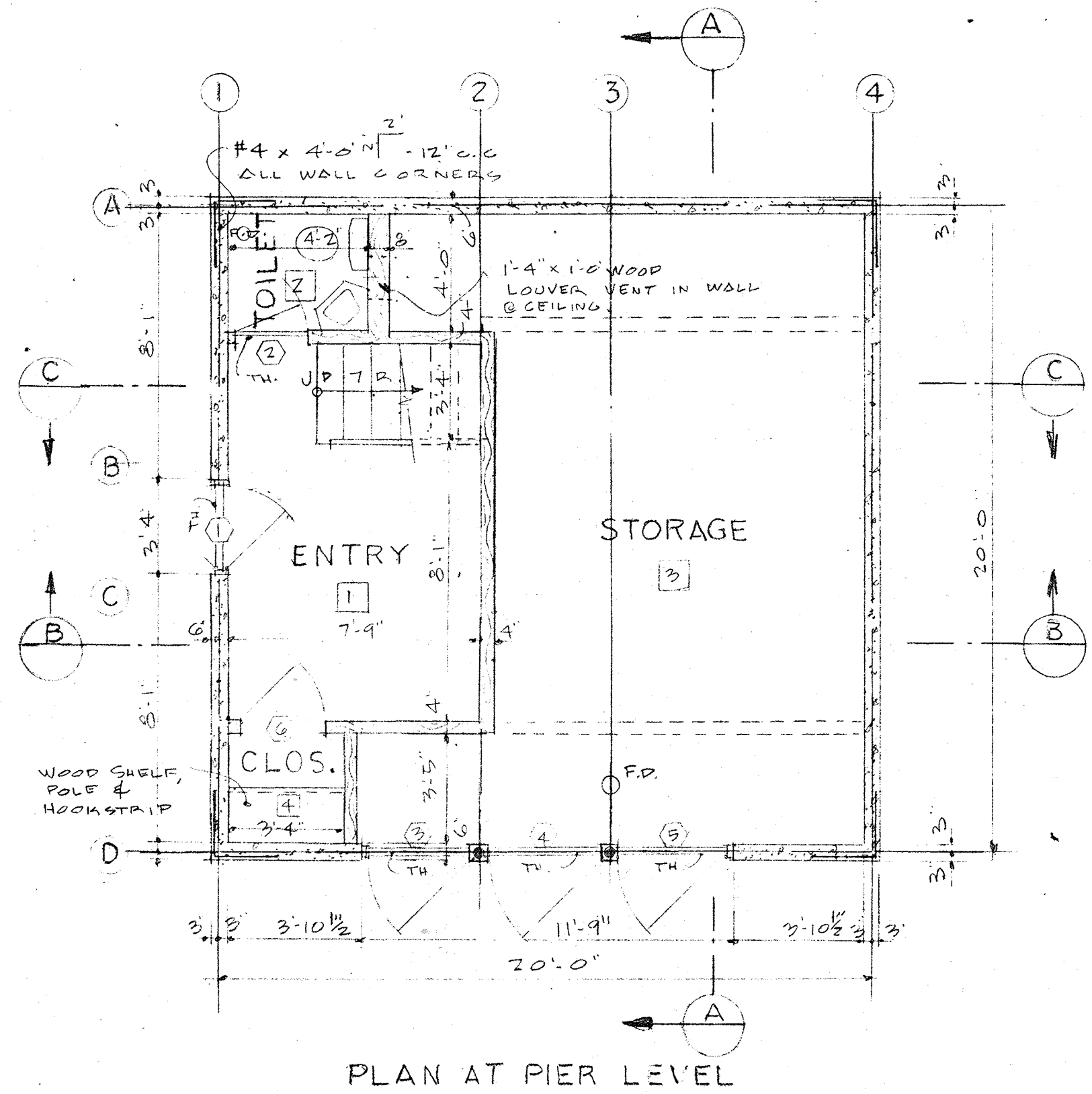
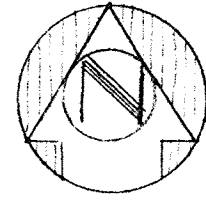
CITY OF ST. PETERSBURG FLORIDA
CENTRAL YACHT BASIN MARINA
CENTRAL FACILITIES BUILDING
STRUCTURAL PLANS AND DETAILS

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
KINGSTON, JAMAICA, W. I. - MIAMI, FLORIDA - ST. PETERSBURG, FLORIDA - WASHINGTON, D. C. - COCKA, FLORIDA

DATE: APRIL 1961
DESIGNED: W.T.M.
DRAWN: W.T.M.
CHECKED: BJA
APPROVED: LFN
SCALE: AS SHOWN
JOB NO.: SP-4506
FILE NO.: SP-4506-113

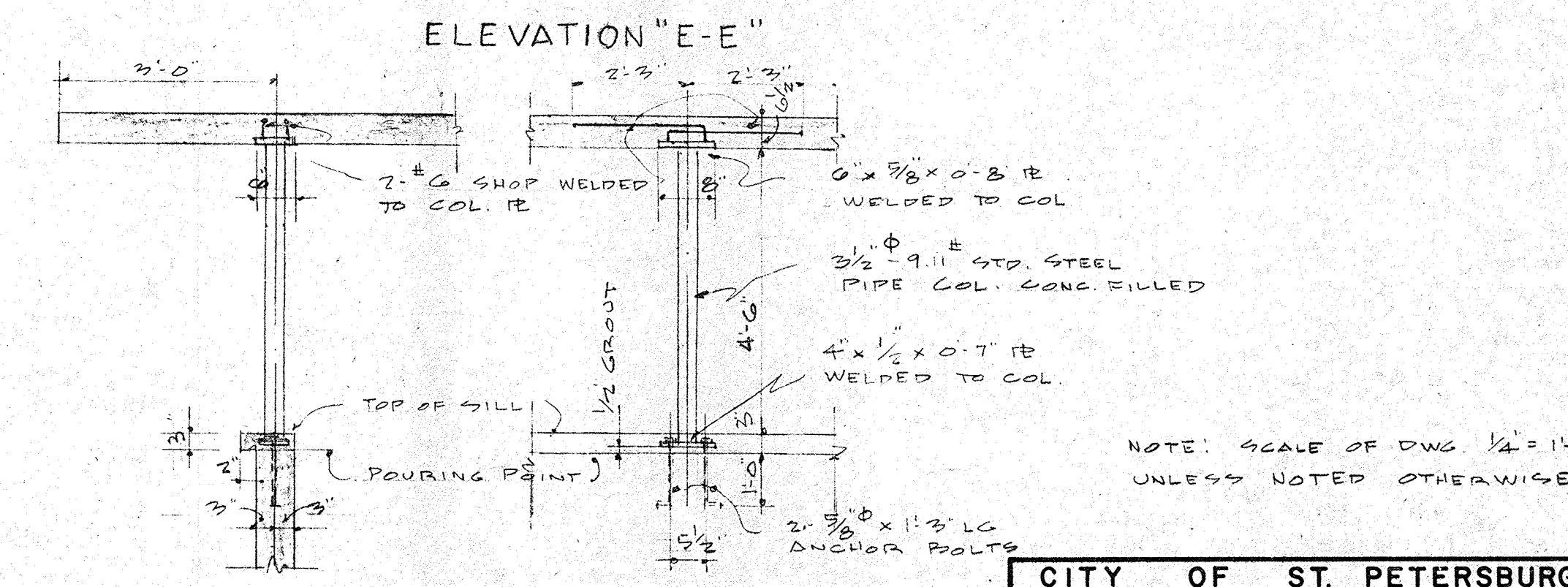
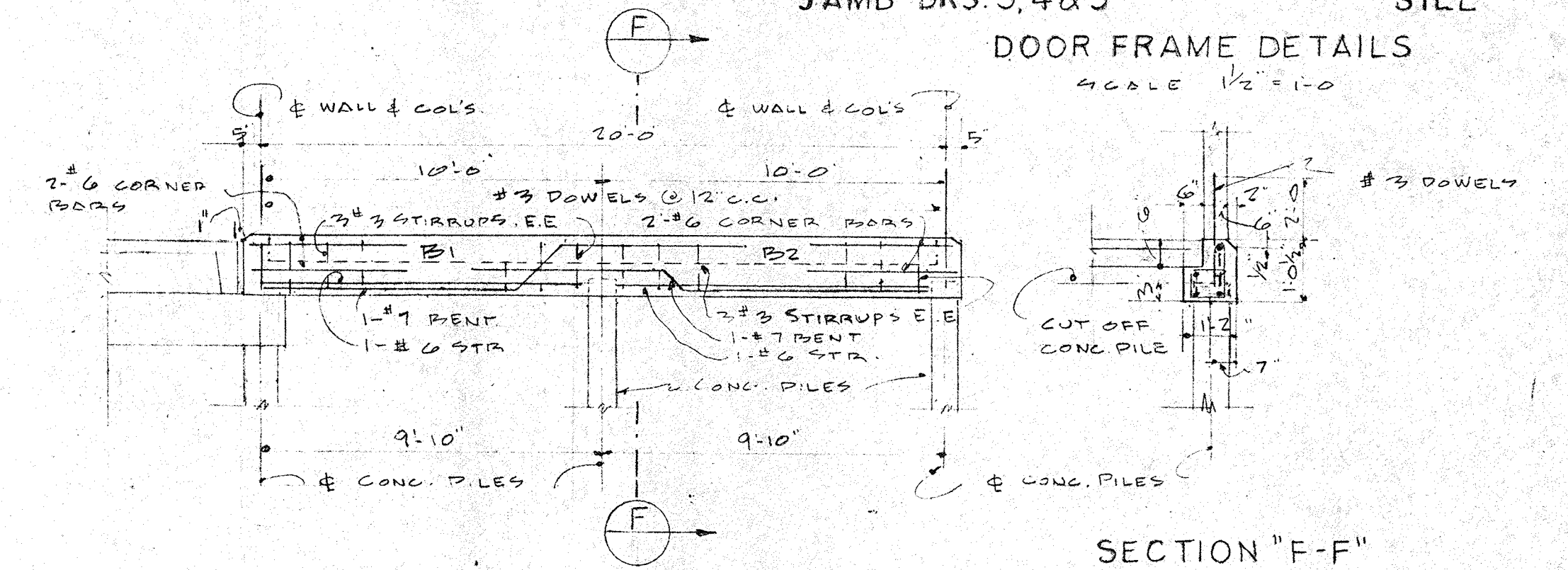
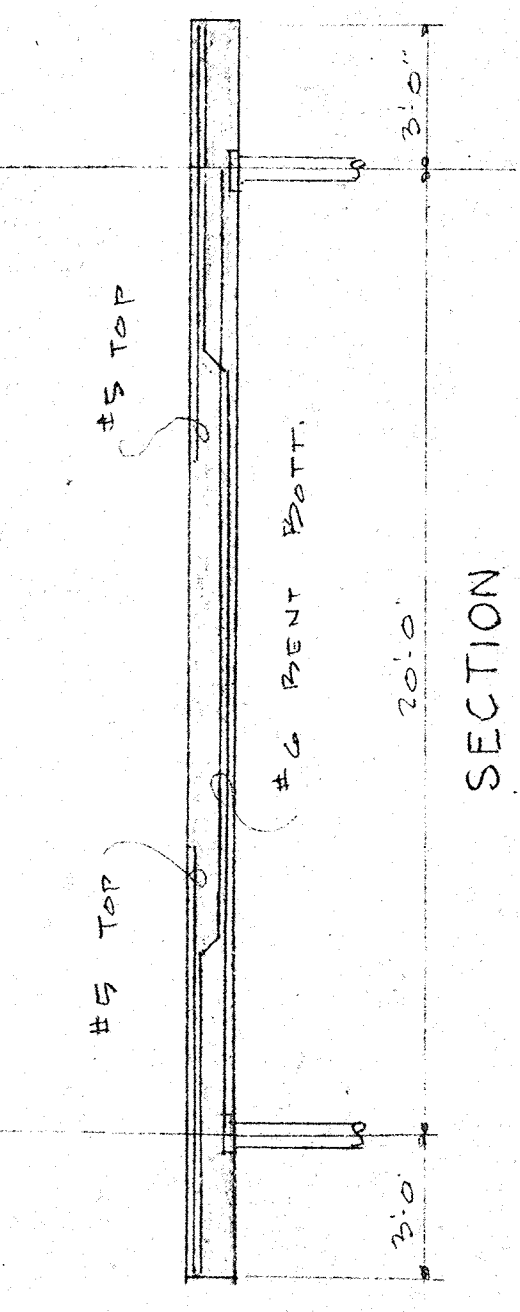
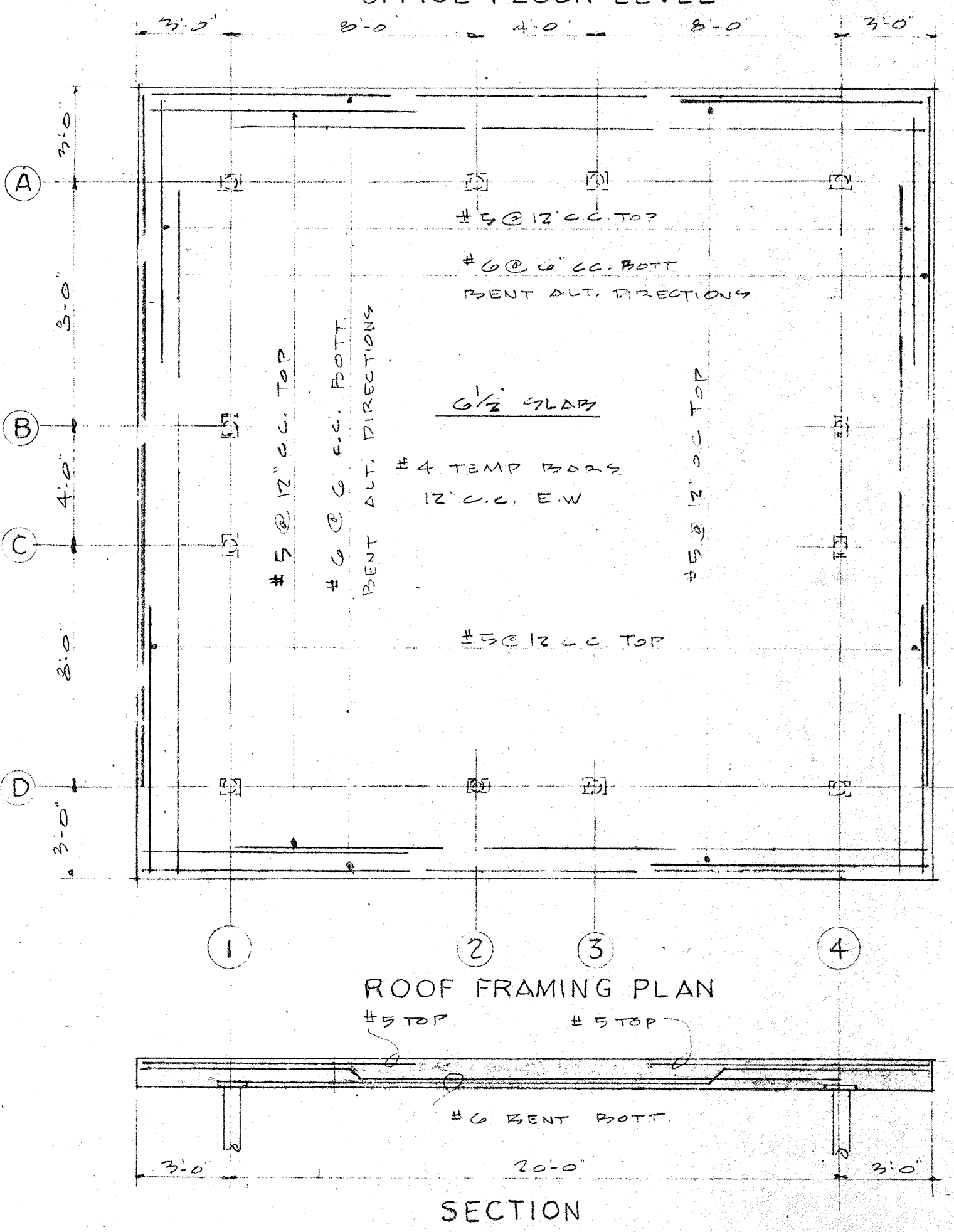
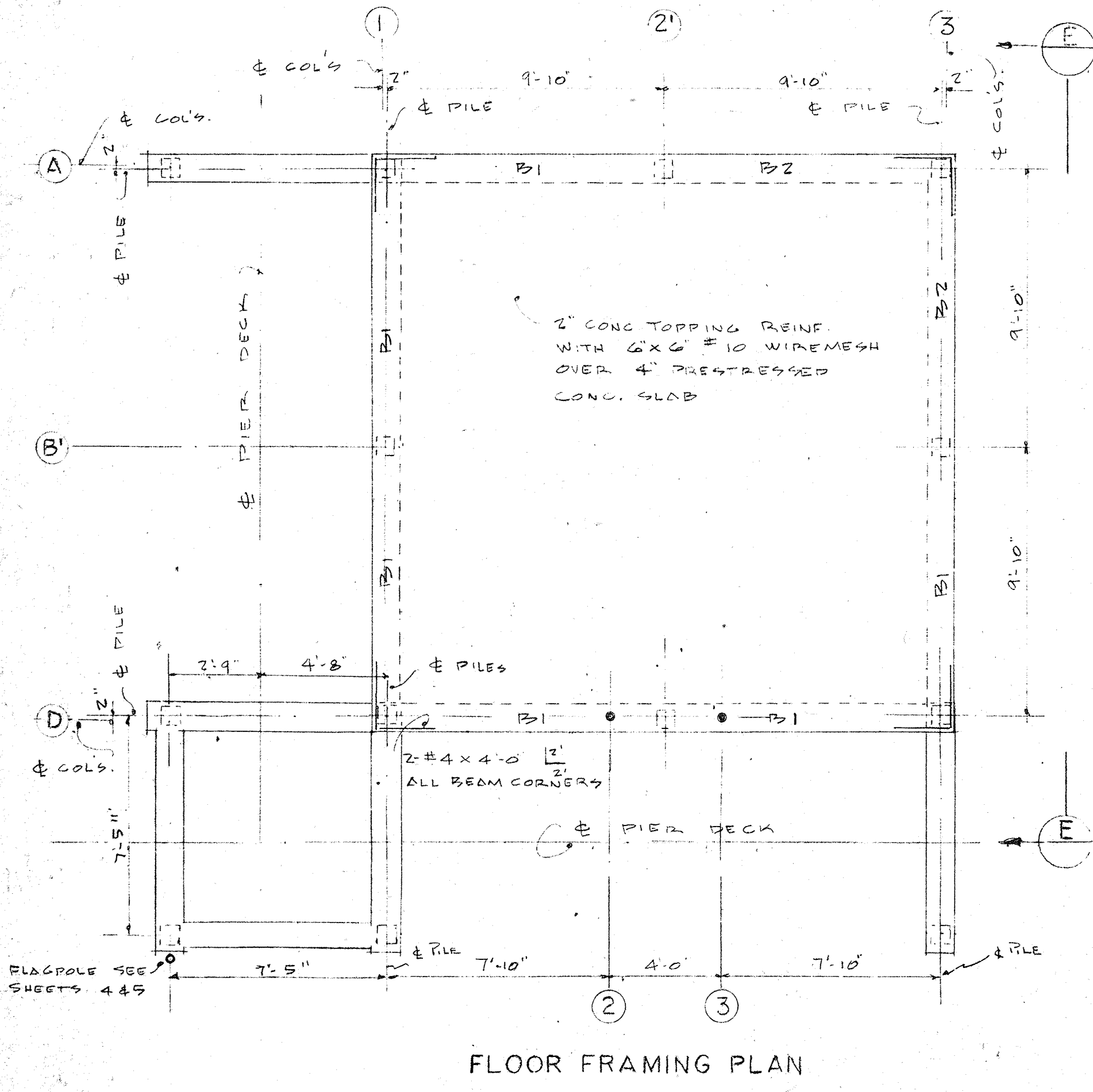
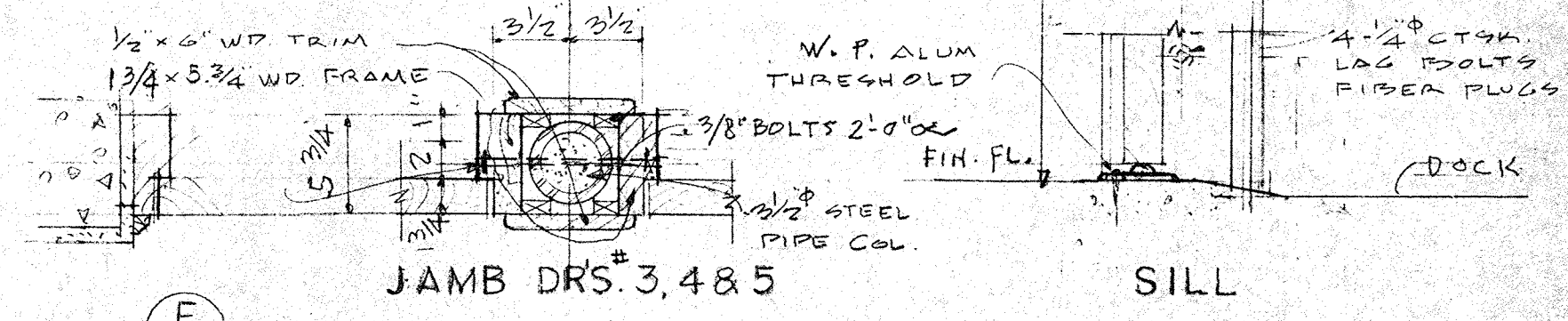
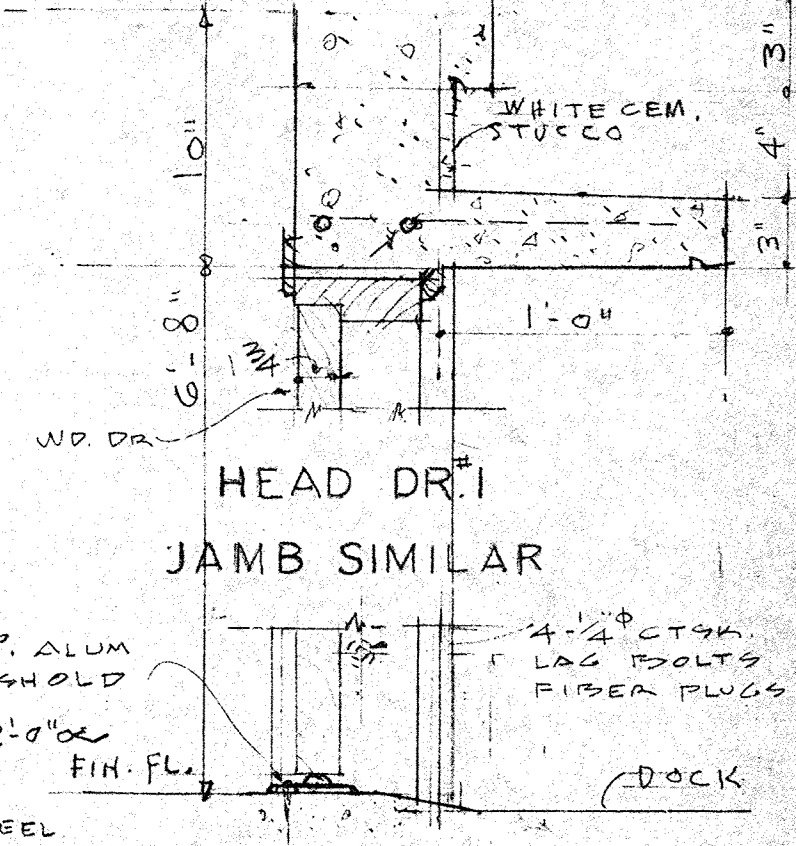
REVISIONS

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
1	9/13/61	GENERAL	BJA	LFN



RM. NO.	ROOM	FLOOR	BASE	WAINCOT	WALLS		CEILING		WINDOW STUOLS	REMARKS
					MAT'L.	FINISH	MAT'L.	FINISH		
1	ENTRY	ASBESTOS VINYL	RUBBER	NONE	CONC. & WOOD	PAINT	CONC.	PAINT	NONE	SEE SECTIONS
2	TOILET	TILE	TILE	DO.	DO.	DO.	WOOD	DO.	DO.	
3	STORAGE	CONC.	NONE	DO.	CEM. PLAS.	NONE	CEM. PLAS.	NONE		WOOD FRAMING COVERED WITH CEMENT PLAS. ON GALV. MET. LATH. CONC. LEFT EXPOSED
4	CLOSET	ASBESTOS VINYL	RUBBER	DO.	CONC. & WOOD	PAINT	WOOD	PAINT	DO.	SHELF, POLE & HOOK STRAP
5	OFFICE	DO.	DO.	WOOD	DO.	DO.	CONC.	DO.	CONC.	SEE SECTIONS
PAINT UNDERSIDE OF EAVES WITH WATER PAINT										

DOOR NO.	DOOR TYPE	JAMB TYPE	SIZE	MAT'L.	THRESH.	VISION PANEL	REMARKS
2	"	"	2'-0" x 6'-0" x 1 3/4"	WOOD	MARBLE		20" x 12" LOUVER VENT
3	SCREENED LOUVER	DO.	2'-5" x 6'-0" x 1 3/4"	DO.	DURAFLEX ALUM.		SEE SOUTH ELEVATION
4	DO.	DO.	DO.	DO.	DO.		DO.
5	DO.	DO.	DO.	DO.	DO.		DO.
6	FLUSH	DO.	2'-0" x 6'-0" x 1 3/4"	DO.			



STRUCTURAL NOTE:
 SEE TYPICAL WALL SECTION DWG #15 FOR REINFORCEMENT IN WALLS.
 SEE "PLAN AT PIER LEVEL" THIS DWG. FOR CORNER WALL REINFORCEMENT.
 SEE DWG #13 FOR GENERAL STRUCTURAL NOTES.

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
1	9/3/61	GENERAL	BJA	CFA

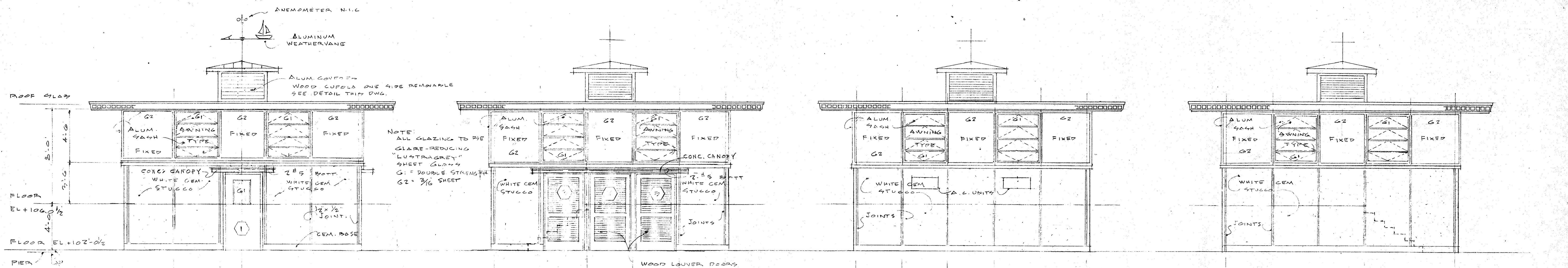
CITY OF ST. PETERSBURG
 FLORIDA
CENTRAL YACHT BASIN MARINA
 HARBOR MASTER OFFICE
 PLANS AND DETAILS

DESIGNED BY BJA
 DRAWN BY W.T.M.
 CHECKED BY BJA
 APPROVED BY LEN

RADER AND ASSOCIATES
 ENGINEERS AND ARCHITECTS
 KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.
 ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCOA, FLORIDA

APPROVED FOR RADER AND ASSOCIATES
Arnold W. Eckhoff
 REGISTERED ARCHITECT NO. 1367 STATE OF FLORIDA

DATE: APRIL 1961
 FILE NO. SP-4506
 SP-4506-114

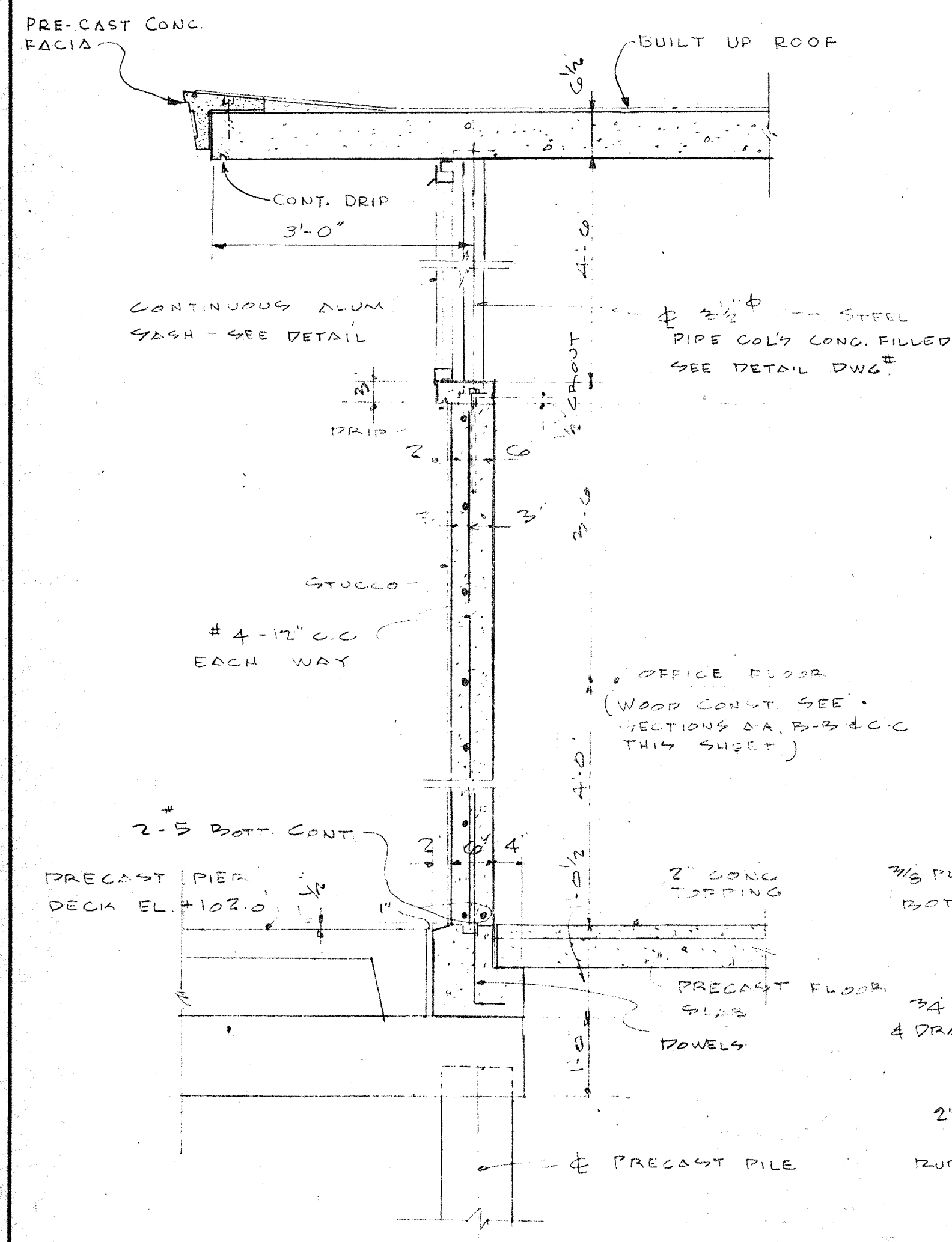


EAST ELEVATION

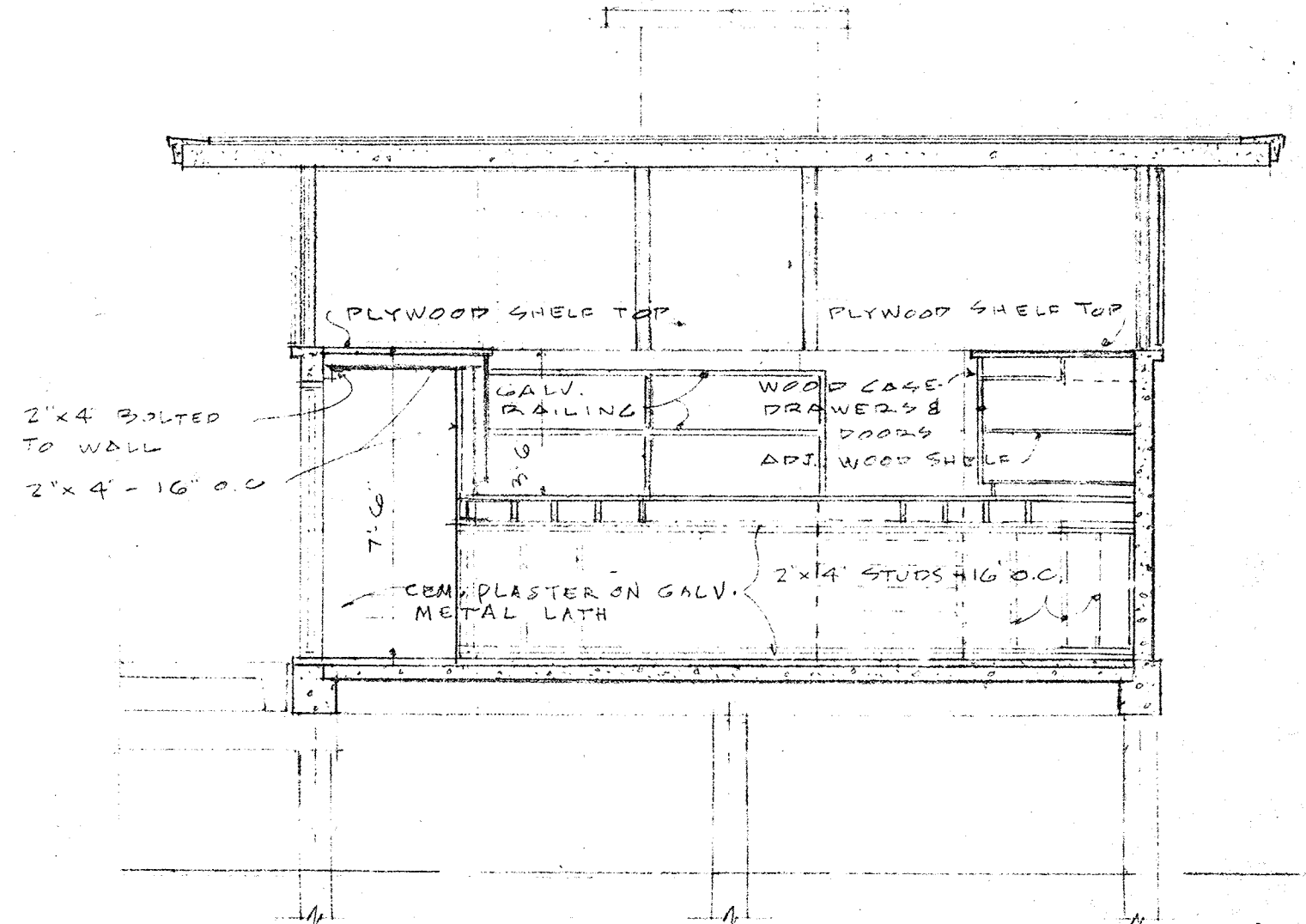
SOUTH ELEVATION

WEST ELEVATION

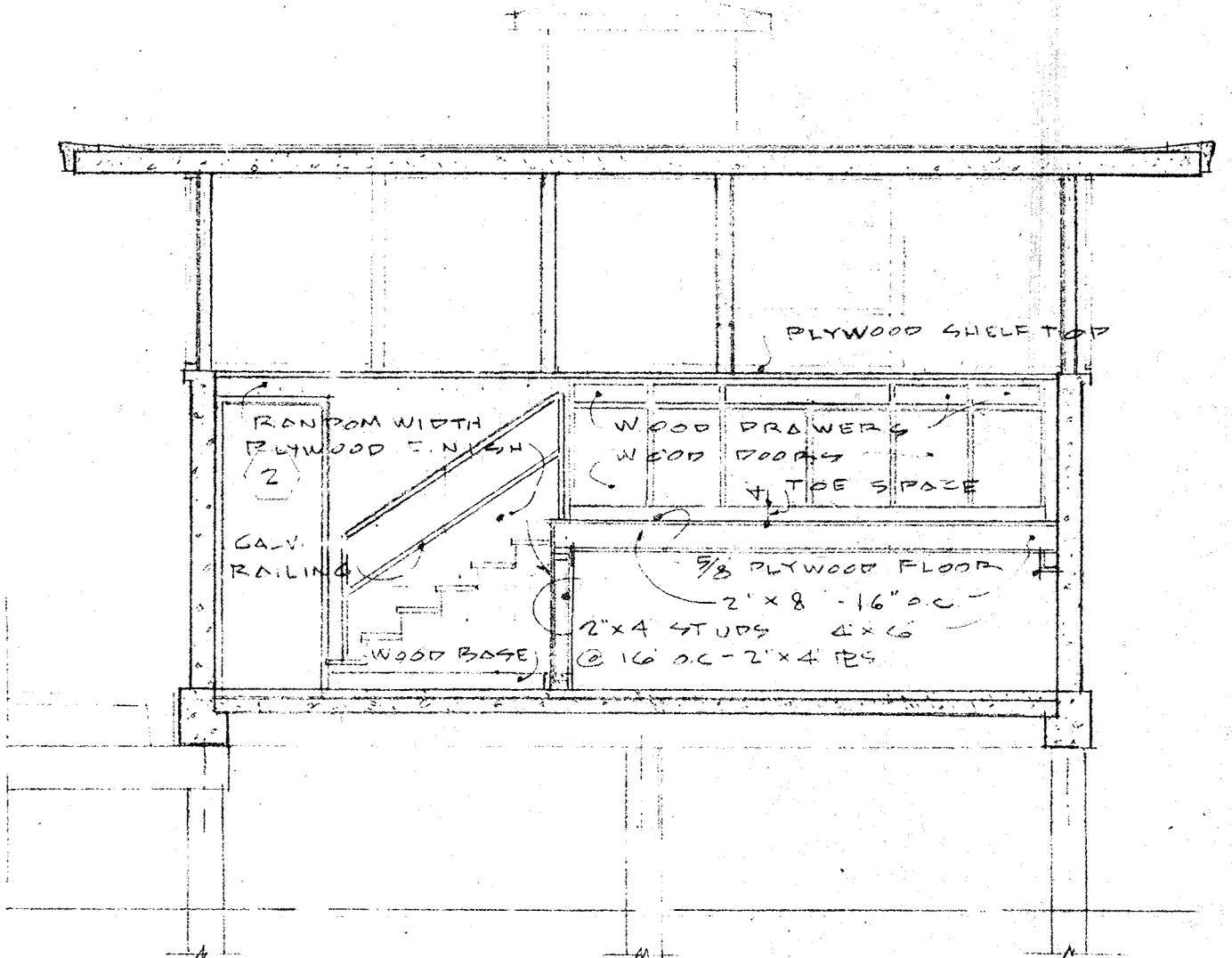
NORTH ELEVATION



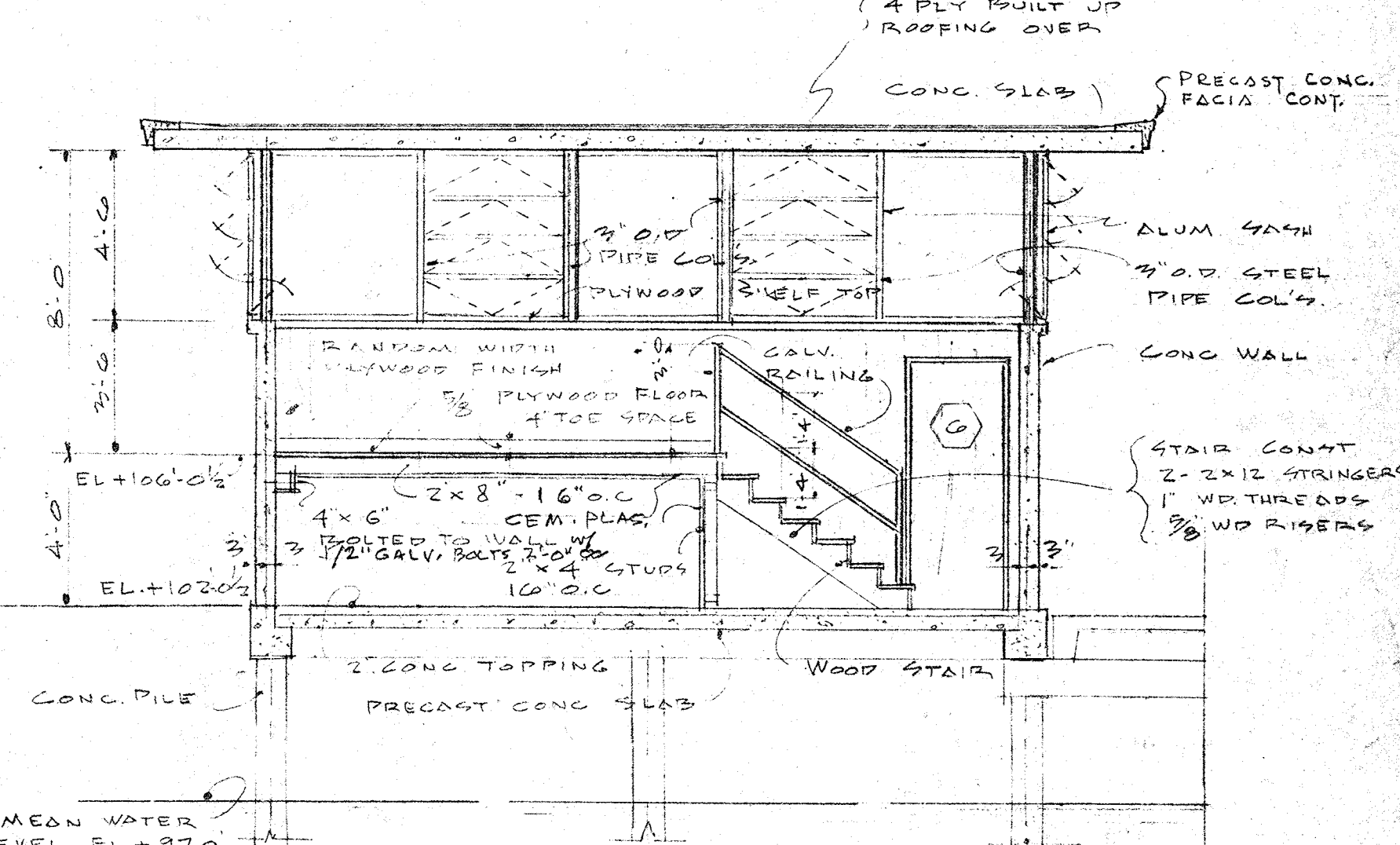
TYPICAL WALL SECTION
SCALE 3/4" = 1'-0"



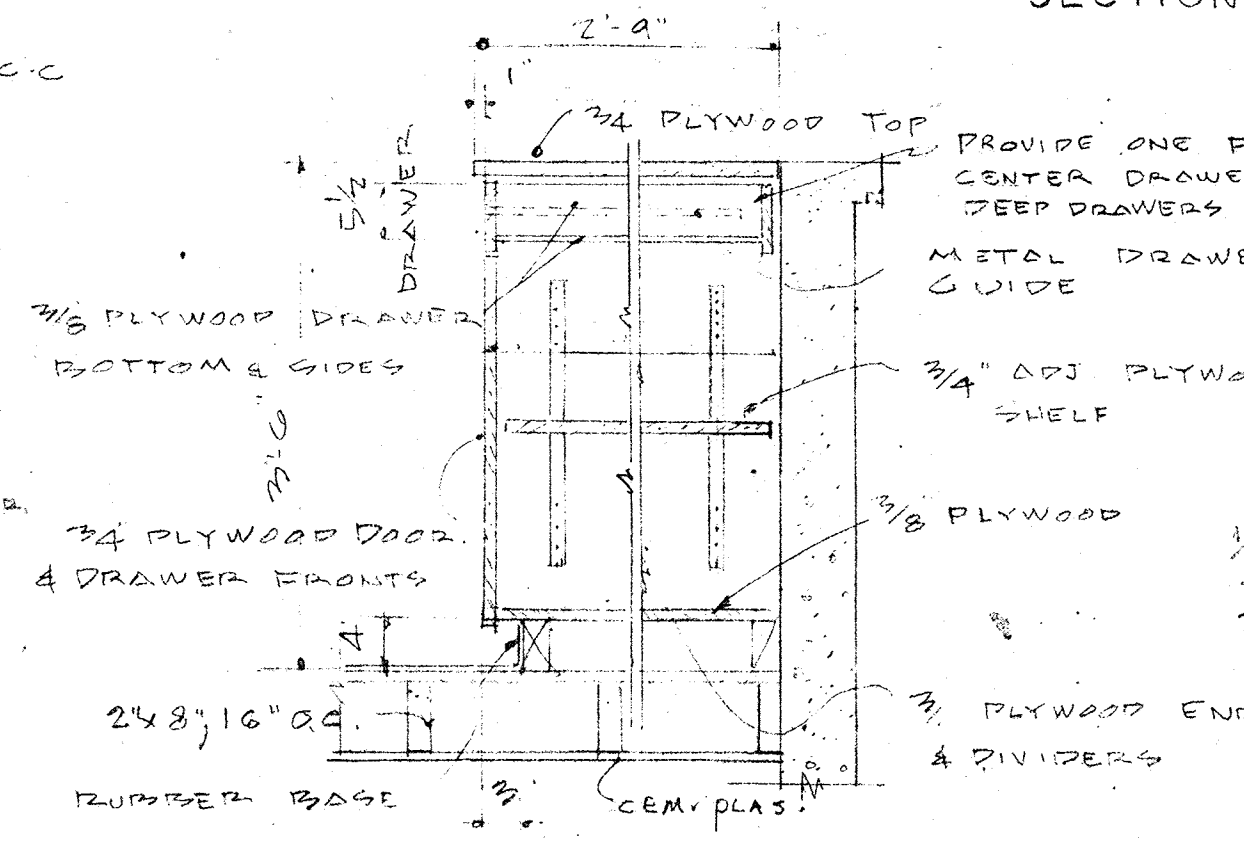
SECTION "A-A"



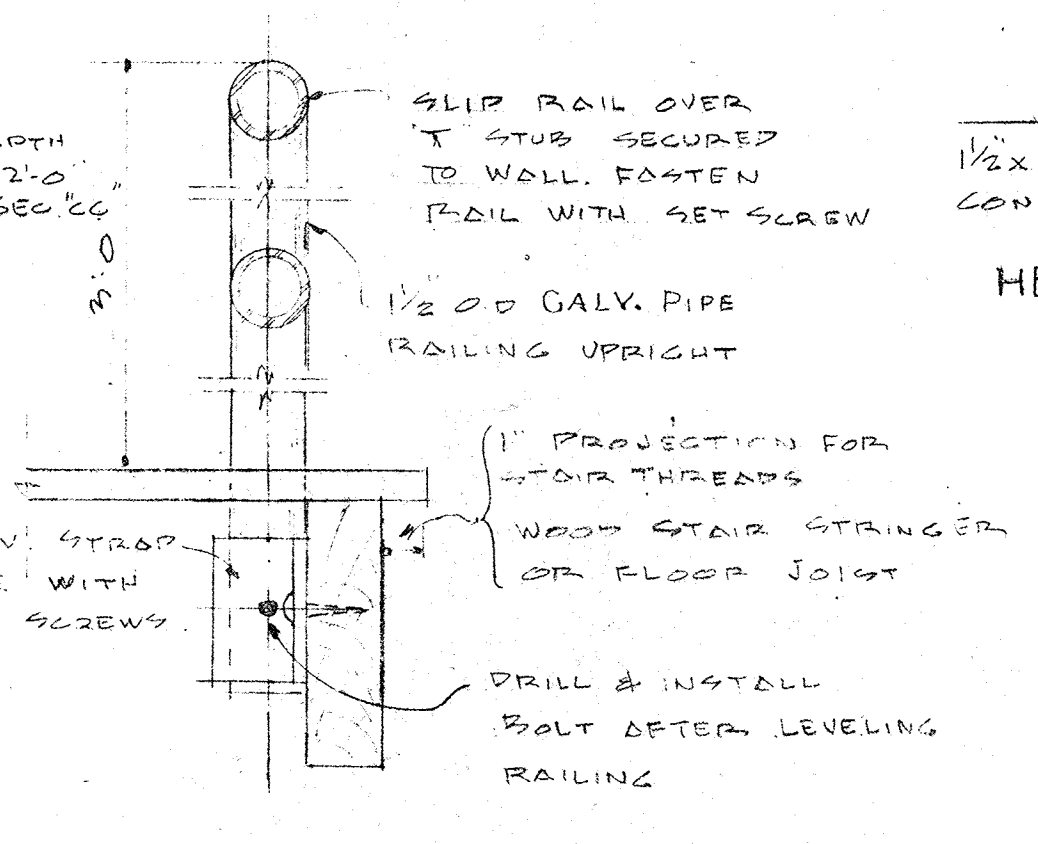
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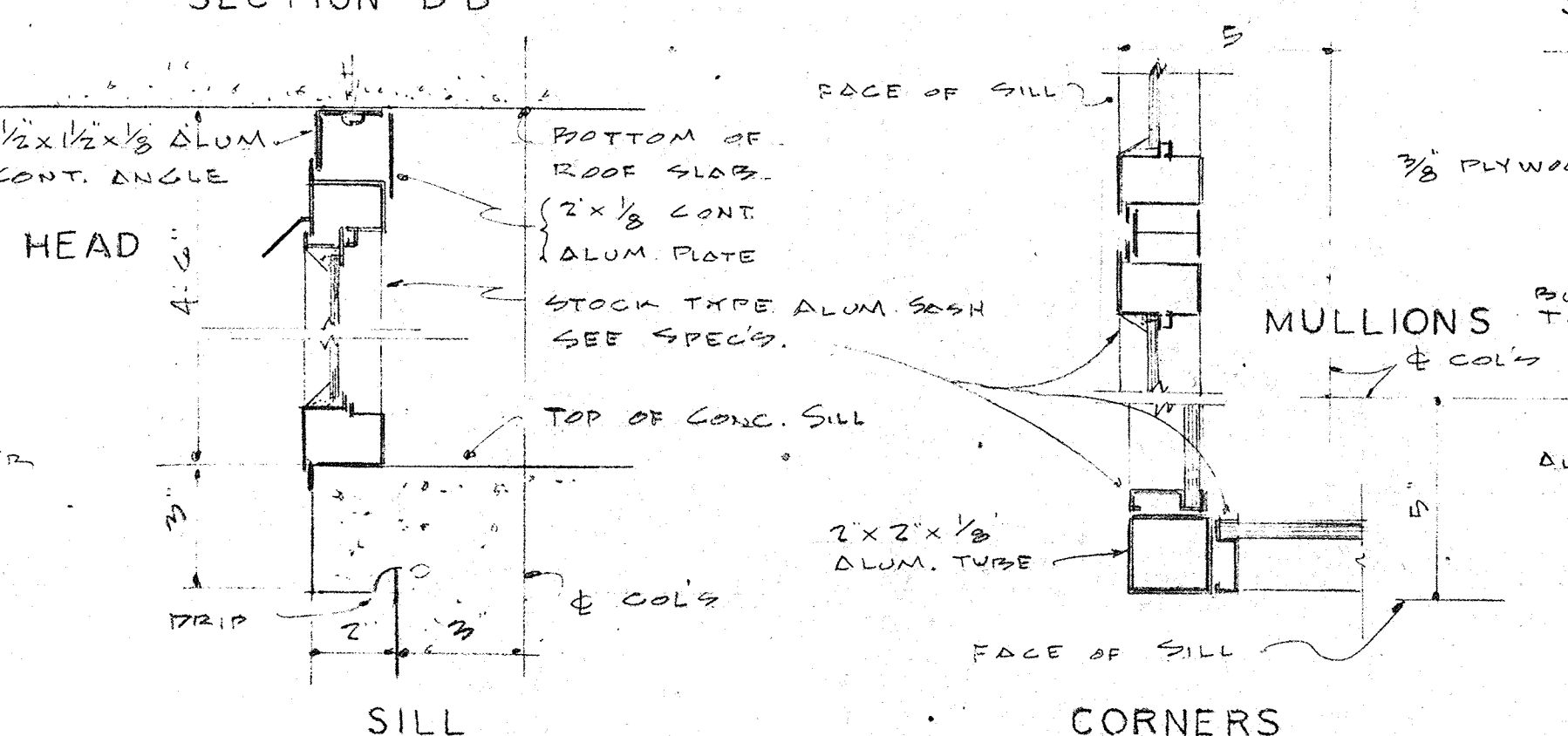
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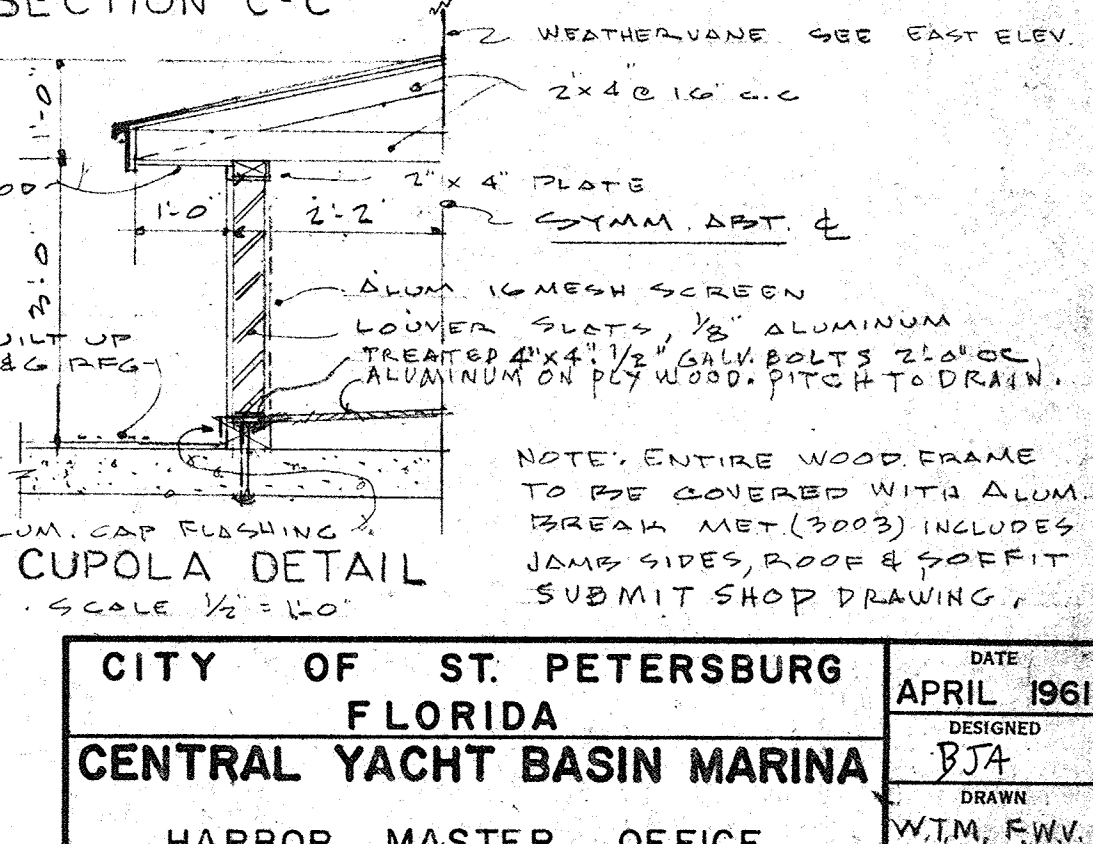
WOOD CASE DETAIL



DETAIL OF RAILING POST SUPPORT
SCALE 3/8" = 1'-0"



WINDOW SASH DETAILS
SCALE 3/8" = 1'-0"



CUPOLA DETAIL
SCALE 1/2" = 1'-0"

NOTE: ALL FRAMING LUMBER TO BE TREATED. SEE SPECS.

NOTE: SCALE OF DWG. IS 1/4" = 1'-0" EXCEPT WHERE OTHERWISE NOTED.

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
1	4/13/61	GENERAL	BJA	LFN

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
HARBOR MASTER OFFICE
ELEVATIONS AND SECTIONS

DATE: APRIL 1961
DESIGNED: BJA
DRAWN: W.T.M. F.W.V.
CHECKED: BJA
APPROVED: LFN
SCALE: AS SHOWN

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.
ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCOA, FLORIDA

APPROVED FOR RADER AND ASSOCIATES
Conrad W. Eckloff
REGISTERED ARCHITECT NO. 1387 STATE OF FLORIDA

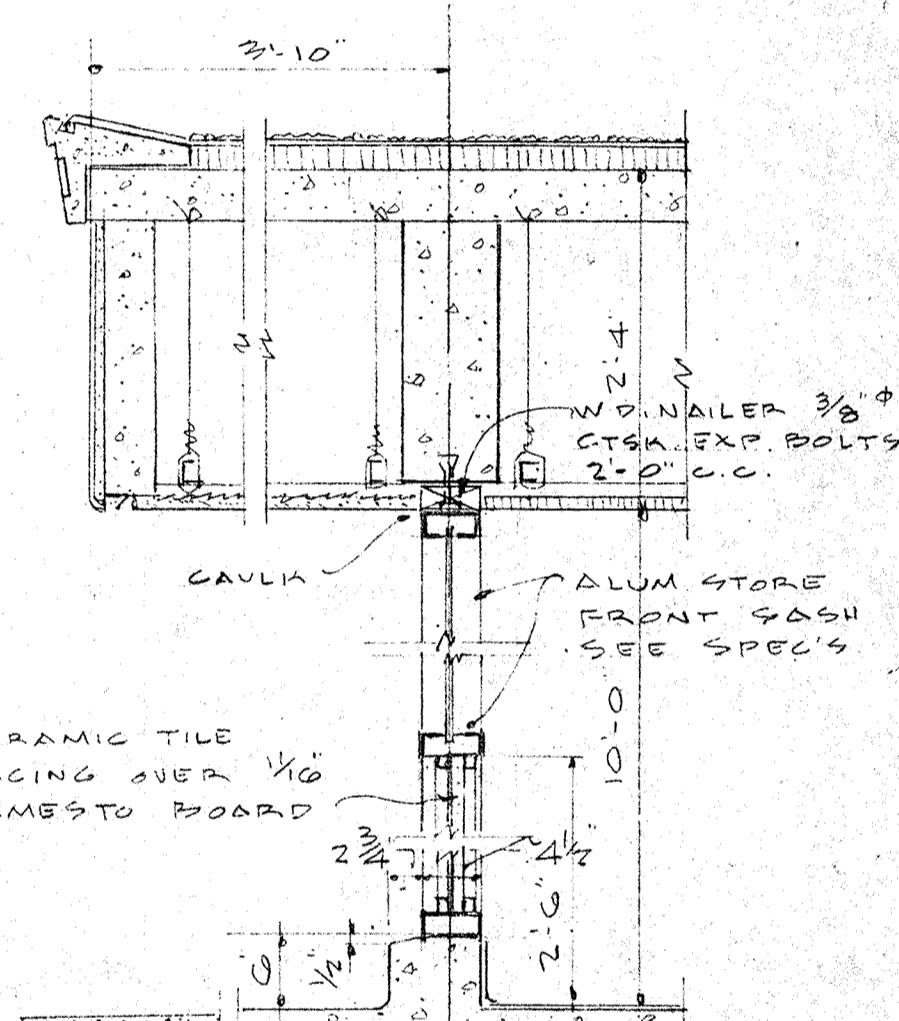
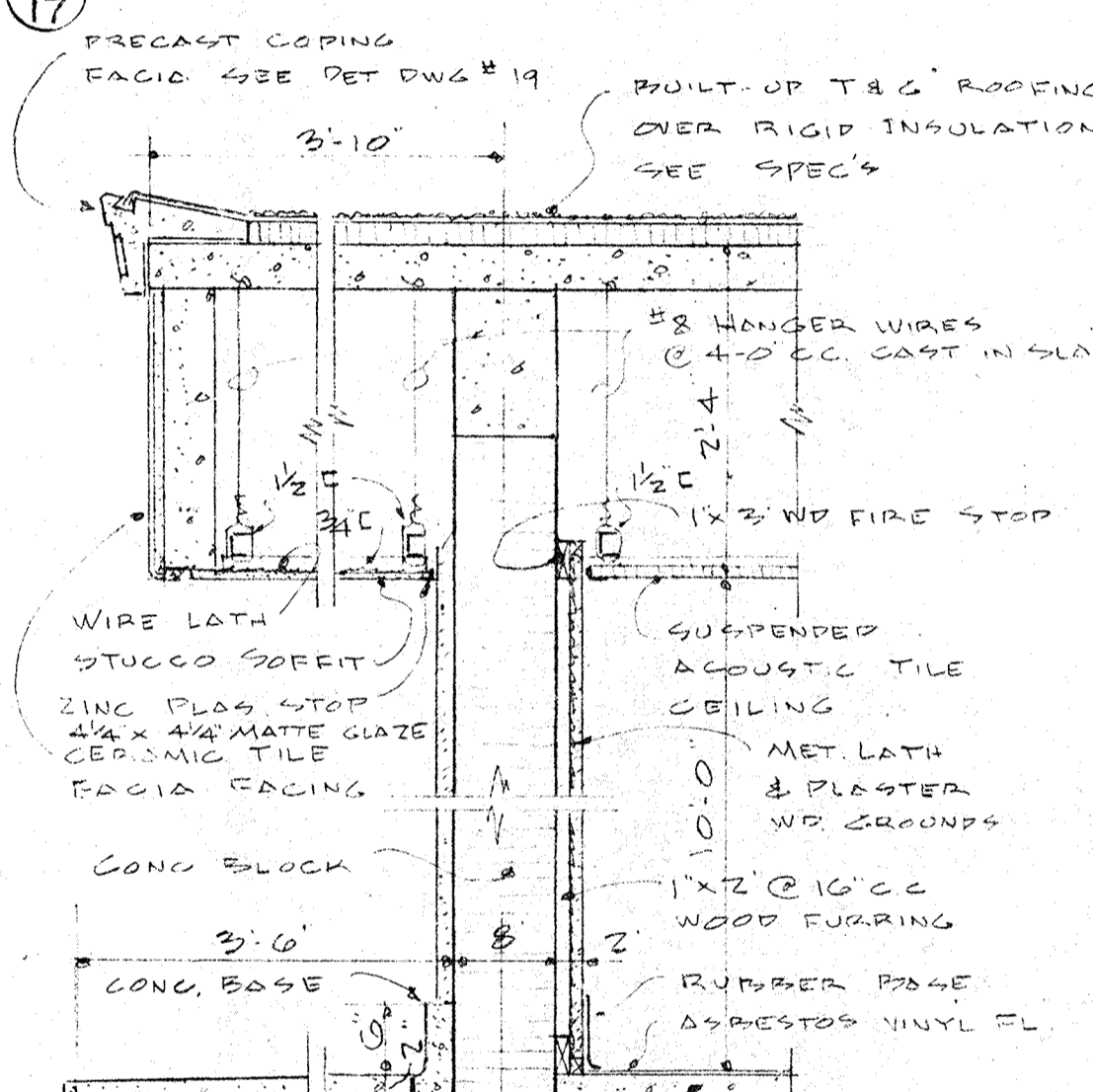
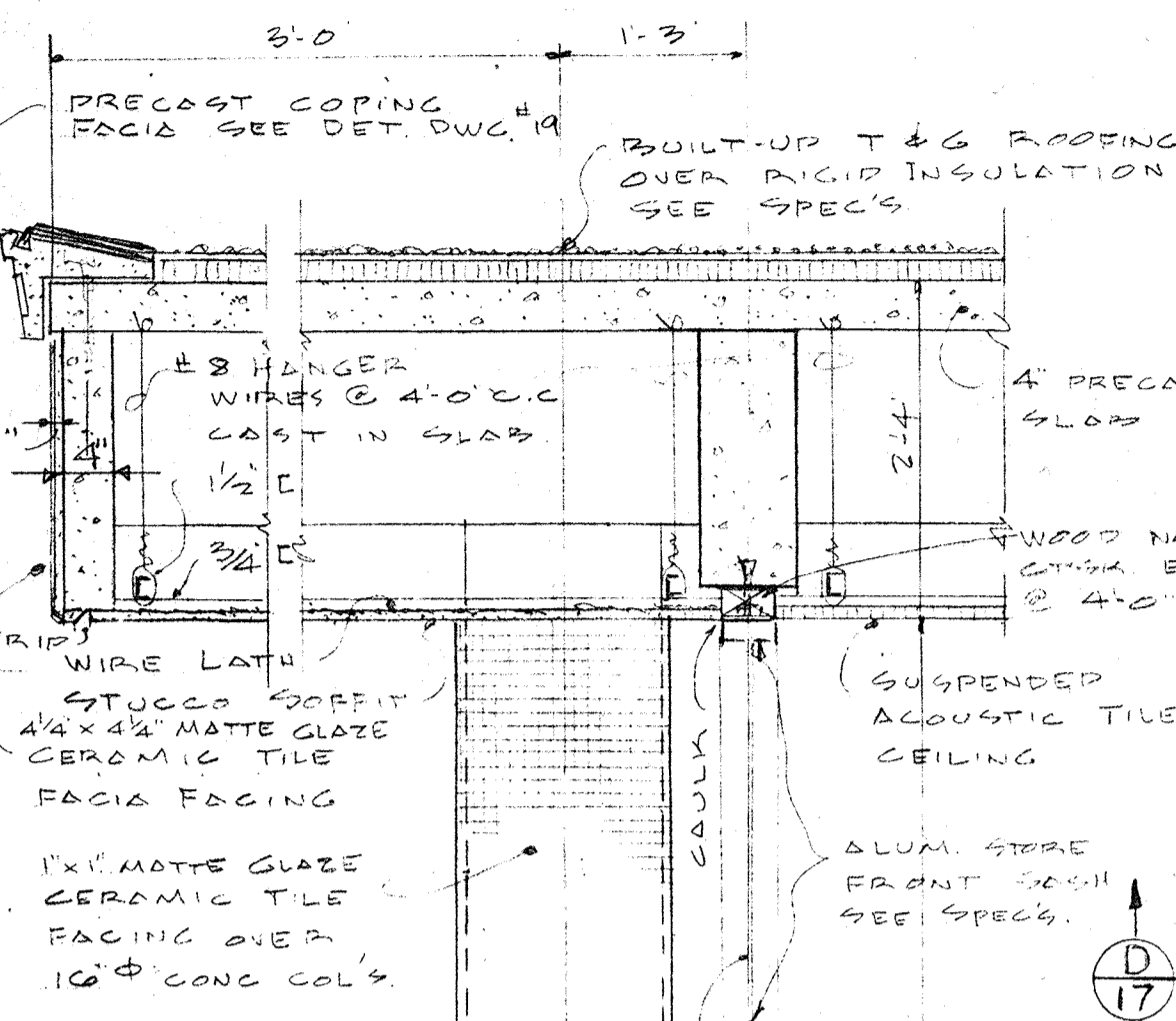
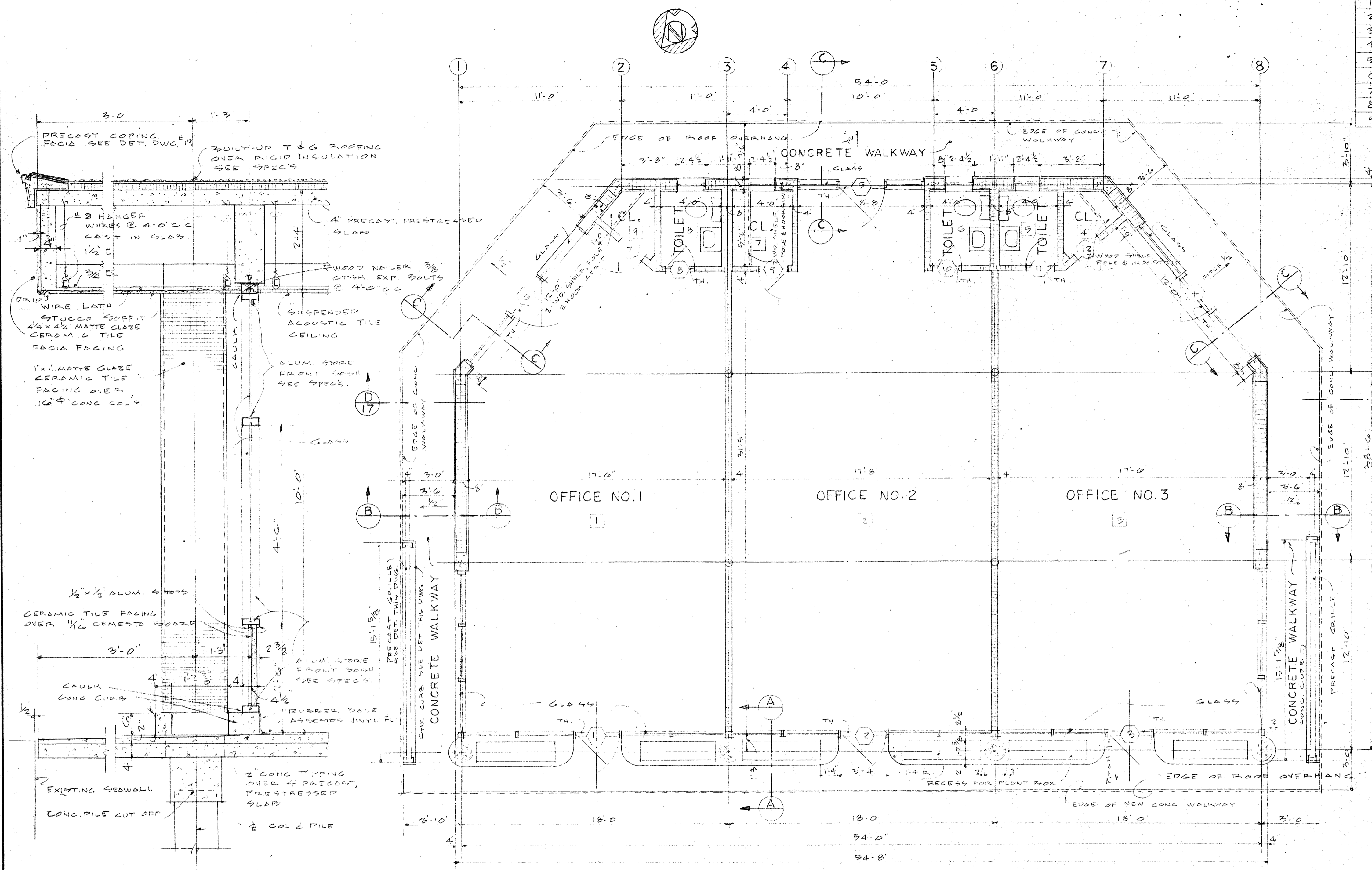
JOB NO. SP-4506
FILE NO. SP-4506-115

ROOM FINISH SCHEDULE

RM NO.	ROOM	FLOOR	BASE	WAINSCOT	WALLS	CEILING	WINDOW	REMARKS
1	OFFICE #1	ASBESTOS VINYL	RUBBER		MAT'L FINISH	ACOUSTIC TILE	FACTORY	
2	OFFICE #2	DO	DO		DO	DO	DO	
3	OFFICE #3	DO	DO		DO	DO	DO	
4	CLOSET	DO	DO		DO	DO	DO	FURF. CEILING TO 8'-0" HIGH SHELF, POLE & HOOK STRIP
5	TOILET	TILE	TILE		DO	DO	DO	FURF. CEILING TO 8'-0" HIGH
6	DO	DO	DO		DO	DO	DO	DO
7	CLOSET	ASBESTOS VINYL	RUBBER		DO	DO	DO	SHELF, POLE & HOOK STRIP
8	TOILET	TILE	TILE		DO	DO	DO	FURF. CEILING TO 8'-0" HIGH
9	CLOSET	ASBESTOS VINYL	RUBBER		DO	DO	DO	SHELF, POLE & HOOK STRIP

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	JAMB TYPE	SIZE	MAT'L	THRESH.	REMARKS
1	FLUSH	ALUM.	3'-0" X 7'-0" X 2 1/4"	WOOD	UNIFLEX ALUM.	
2	DO	DO	DO	DO	DO	
3	DO	DO	DO	DO	DO	
4	DO	DO	DO	DO	DO	
5	DO	DO	DO	DO	DO	
6	DO	DO	DO	DO	DO	
7	DO	WOOD	2'-4" X 6'-8" X 1 3/4"	DO	NONE	
8	DO	DO	2'-4" X 6'-8" X 1 3/4"	DO	MARBLE	
9	DO	DO	DO	DO	NONE	
10	DO	DO	DO	DO	MARBLE	
11	DO	DO	DO	DO	DO	
12	DO	DO	2'-0" X 6'-8" X 1 3/4"	DO	NONE	

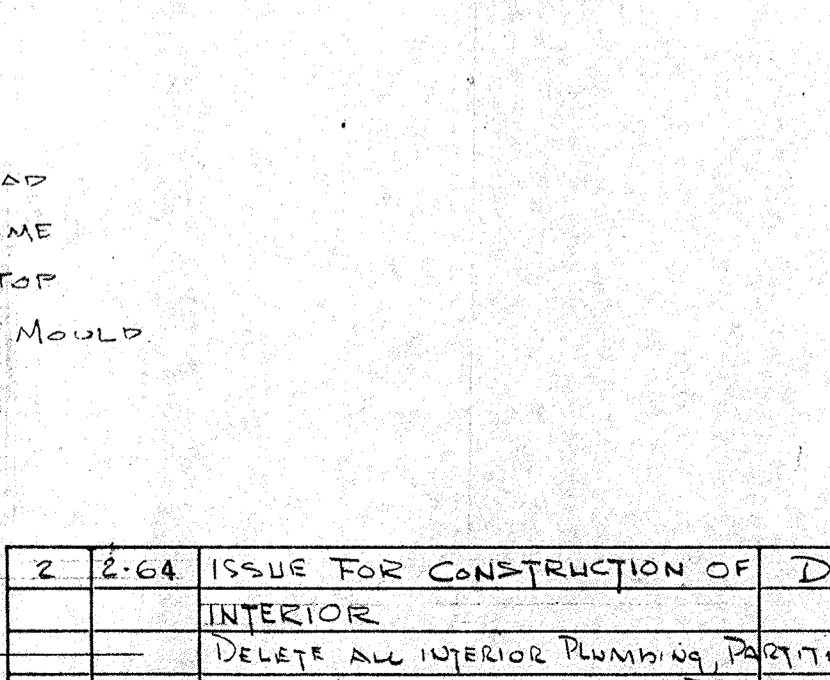
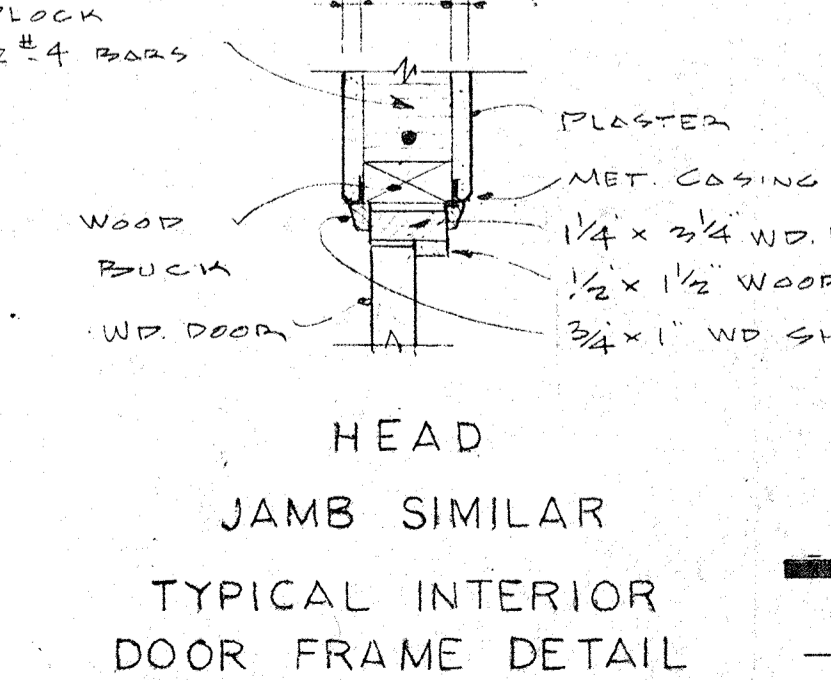
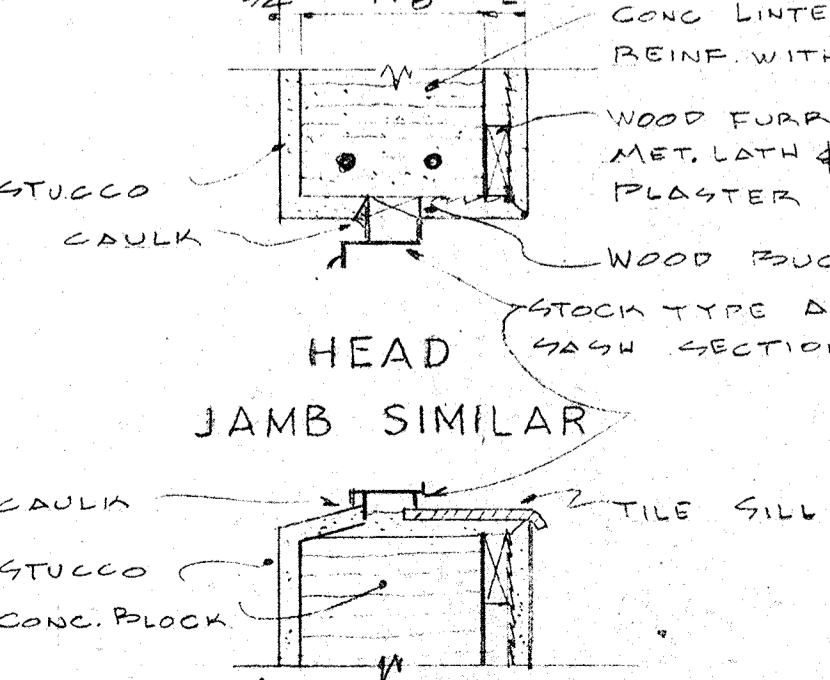
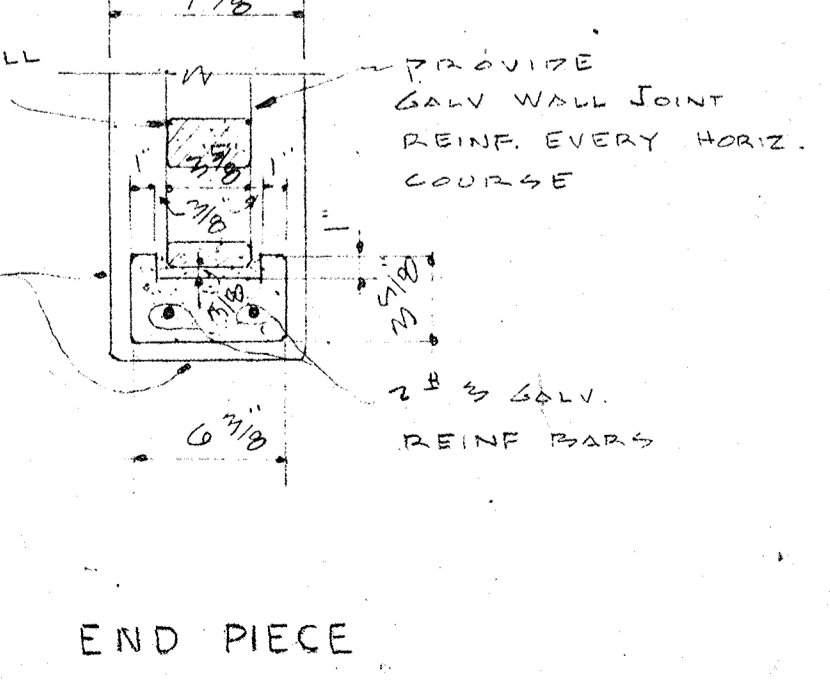
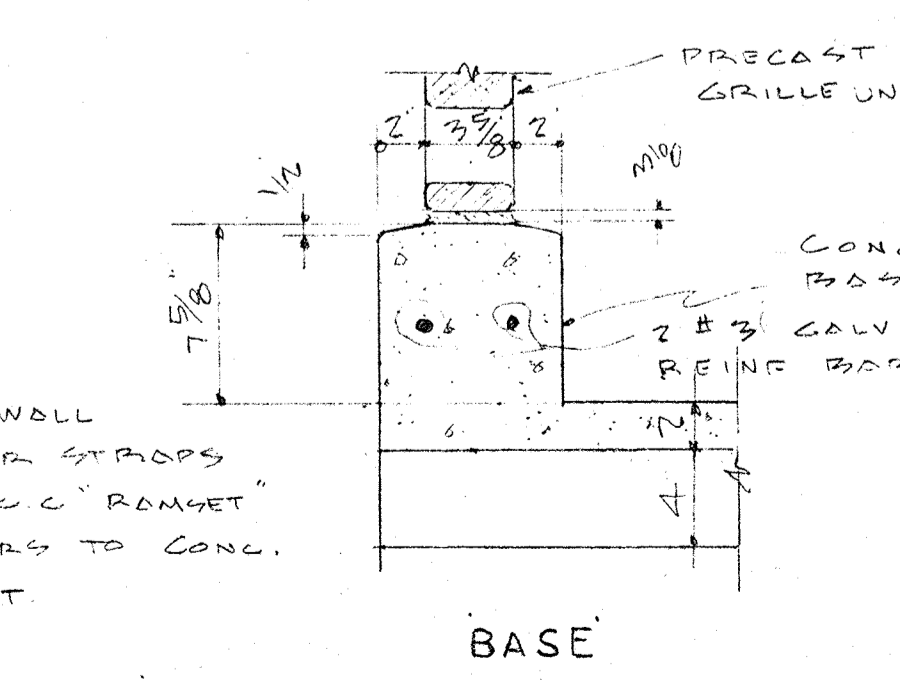
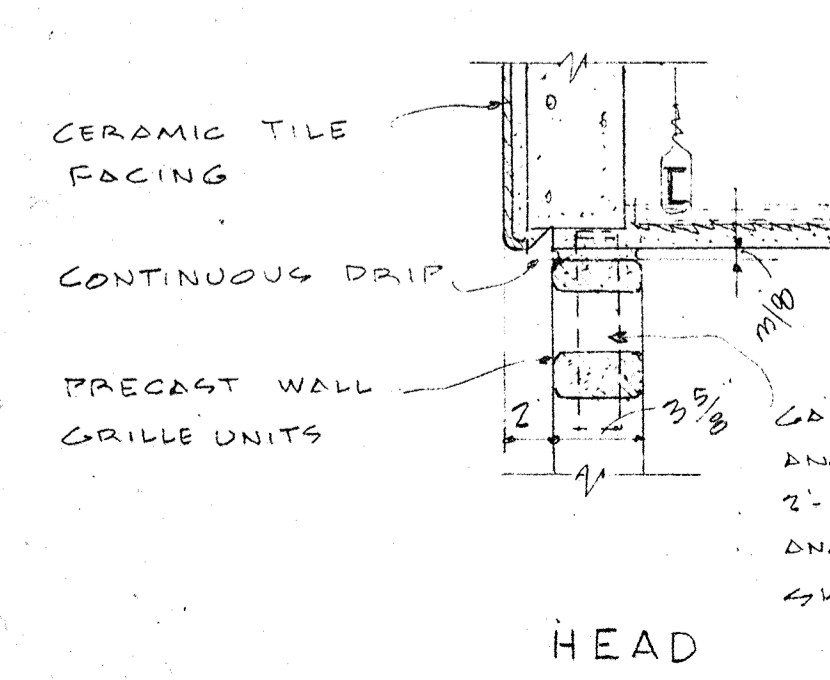


SECTION "A-A"
SCALE 3/4" = 1'-0"

FLOOR PLAN
SCALE 1/4" = 1'-0"

SECTION "B-B"
SCALE 3/4" = 1'-0"

SECTION "C-C"
SCALE 3/4" = 1'-0"



HEAD
SCALE 1 1/2" = 1'-0"

BASE
SCALE 1 1/2" = 1'-0"

END PIECE
SCALE 1 1/2" = 1'-0"

HEAD JAMB SIMILAR
SCALE 1 1/2" = 1'-0"

HEAD JAMB SIMILAR
SCALE 1 1/2" = 1'-0"

SILL JALOUSIE WINDOW DETAILS
SCALE 1 1/2" = 1'-0"

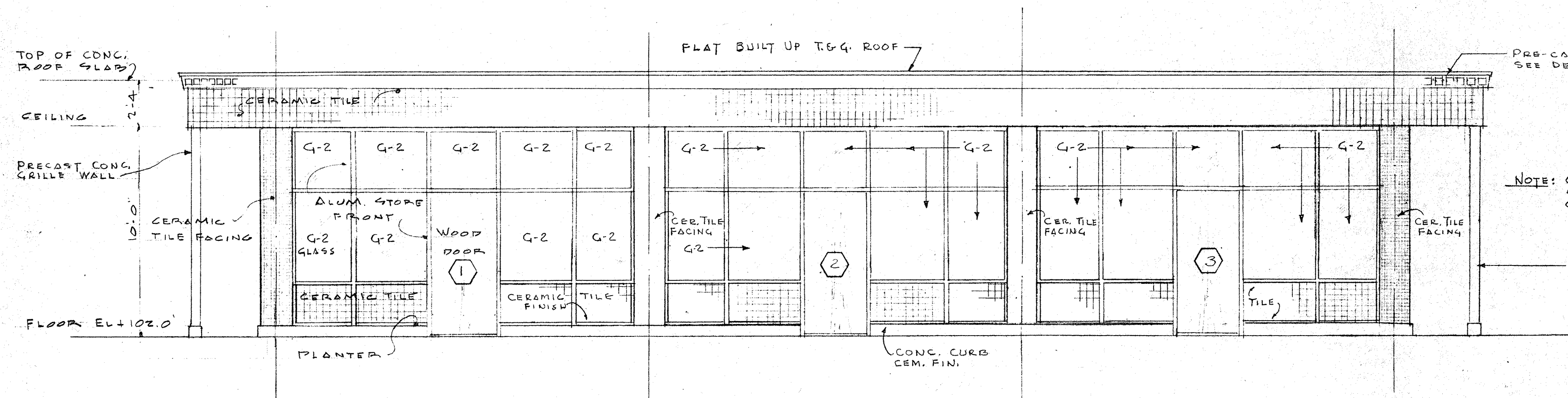
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1	6-62	DELETE ALL INTERIOR PLUMBING, PARTITIONS, CEILING		
1	6-62	DELETE ALL INTERIOR DETAILS DAT		

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
YACHT BROKER OFFICE
ARCHITECTURAL
PLANS AND DETAILS

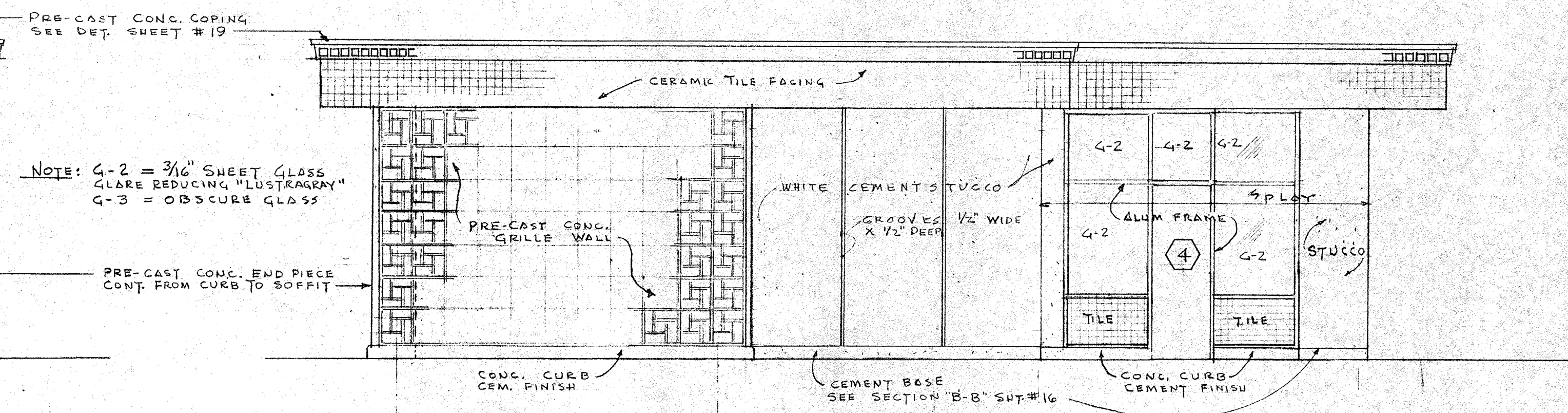
RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.
ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCAL, FLORIDA

DATE APRIL 1961
DESIGNED BY BJA
DRAWN BY W.T.M.
CHECKED BY BJA
APPROVED BY L.F.N.
SCALE AS SHOWN
JOB NO. SP-4506
FILE NO. SP-4506-116

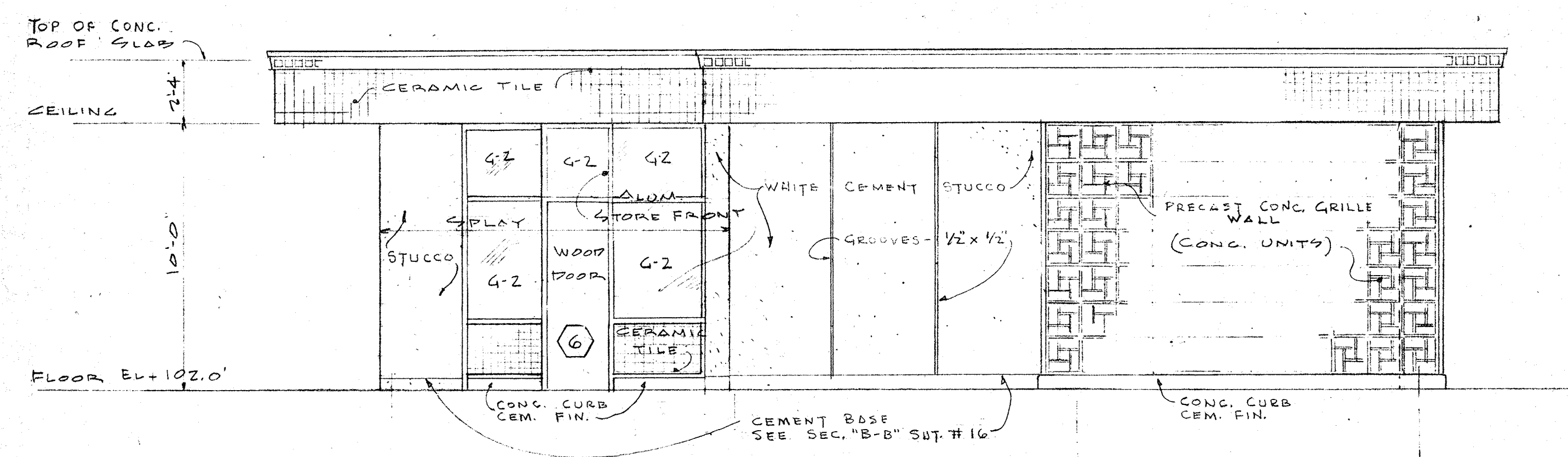
REGISTERED ARCHITECT NO. 1287 STATE OF FLORIDA
Charles E. Eckhoff



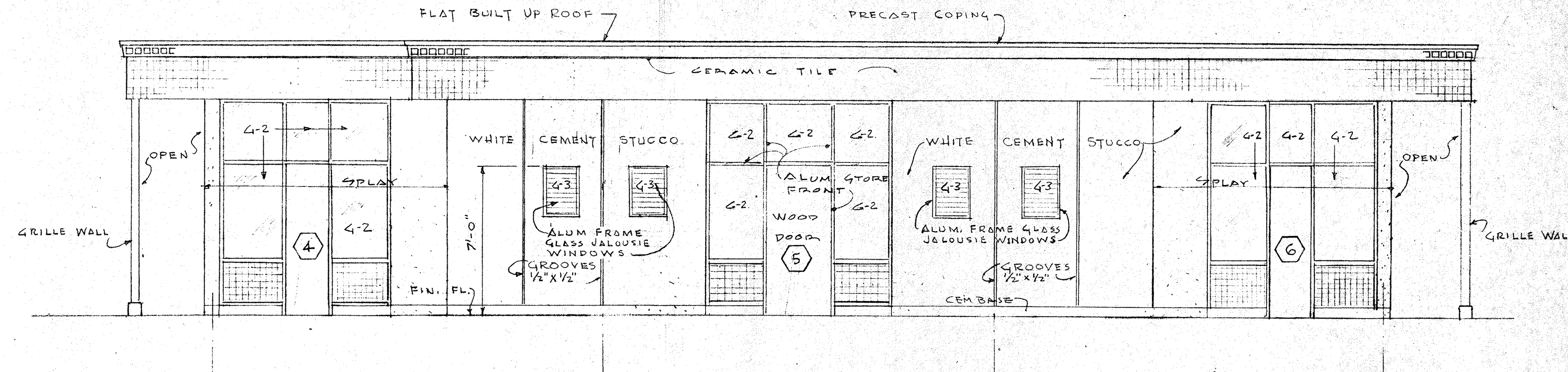
NORTHWEST ELEVATION



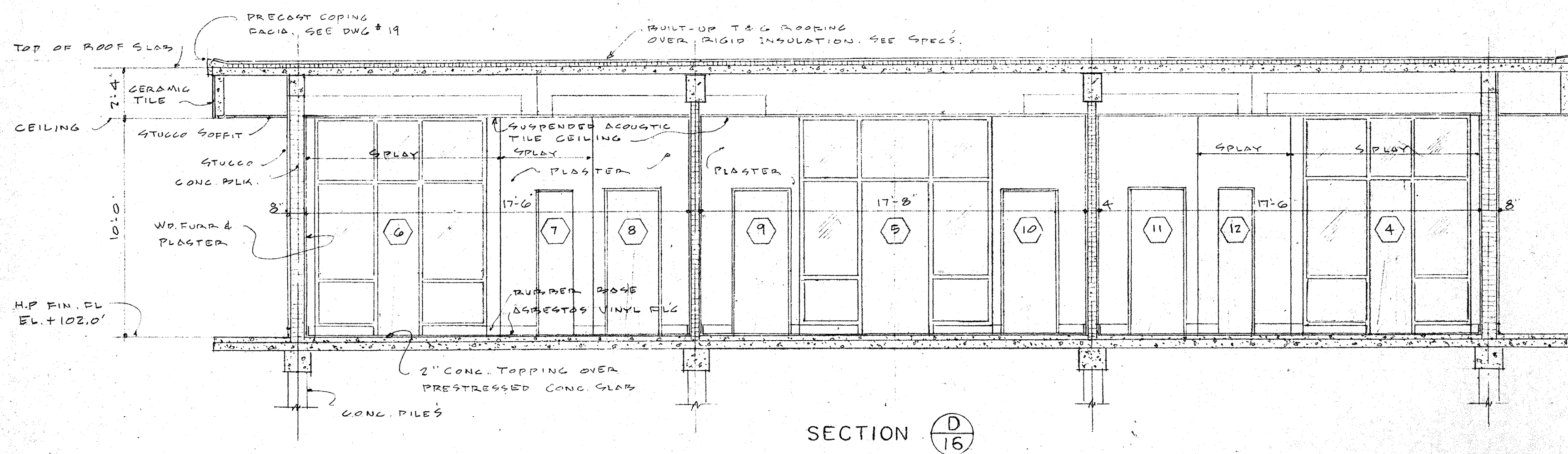
SOUTHWEST ELEVATION



NORTHEAST ELEVATION



SOUTHEAST ELEVATION



SECTION D-16

NOTE: SCALE OF DWG. 1/4" = 1'-0"

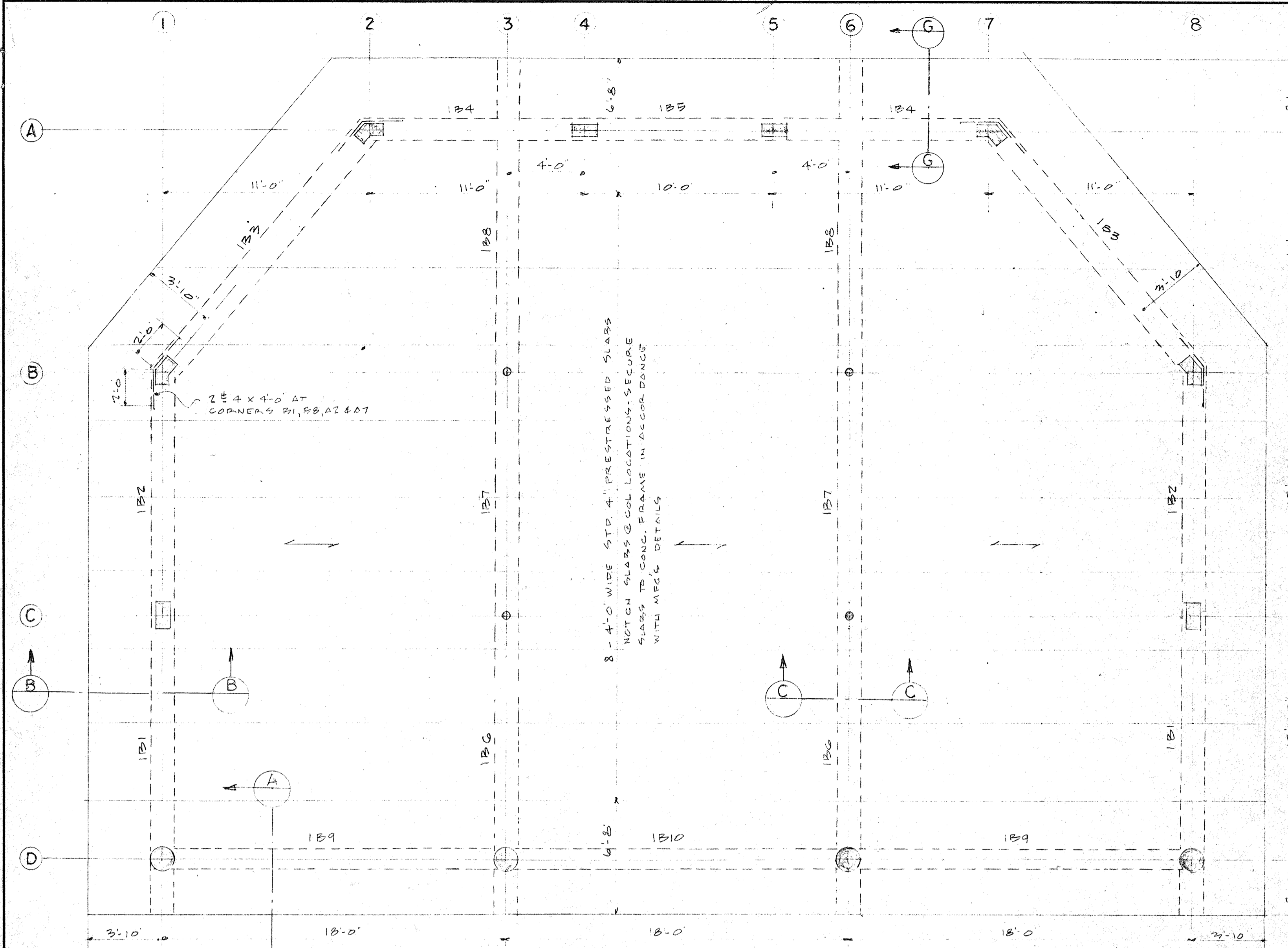
NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
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1	6-62	PLUMBING & PARTITIONS	DAT	

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
YACHT BROKER OFFICE-ARCHITECTURAL
ELEVATIONS AND DETAILS

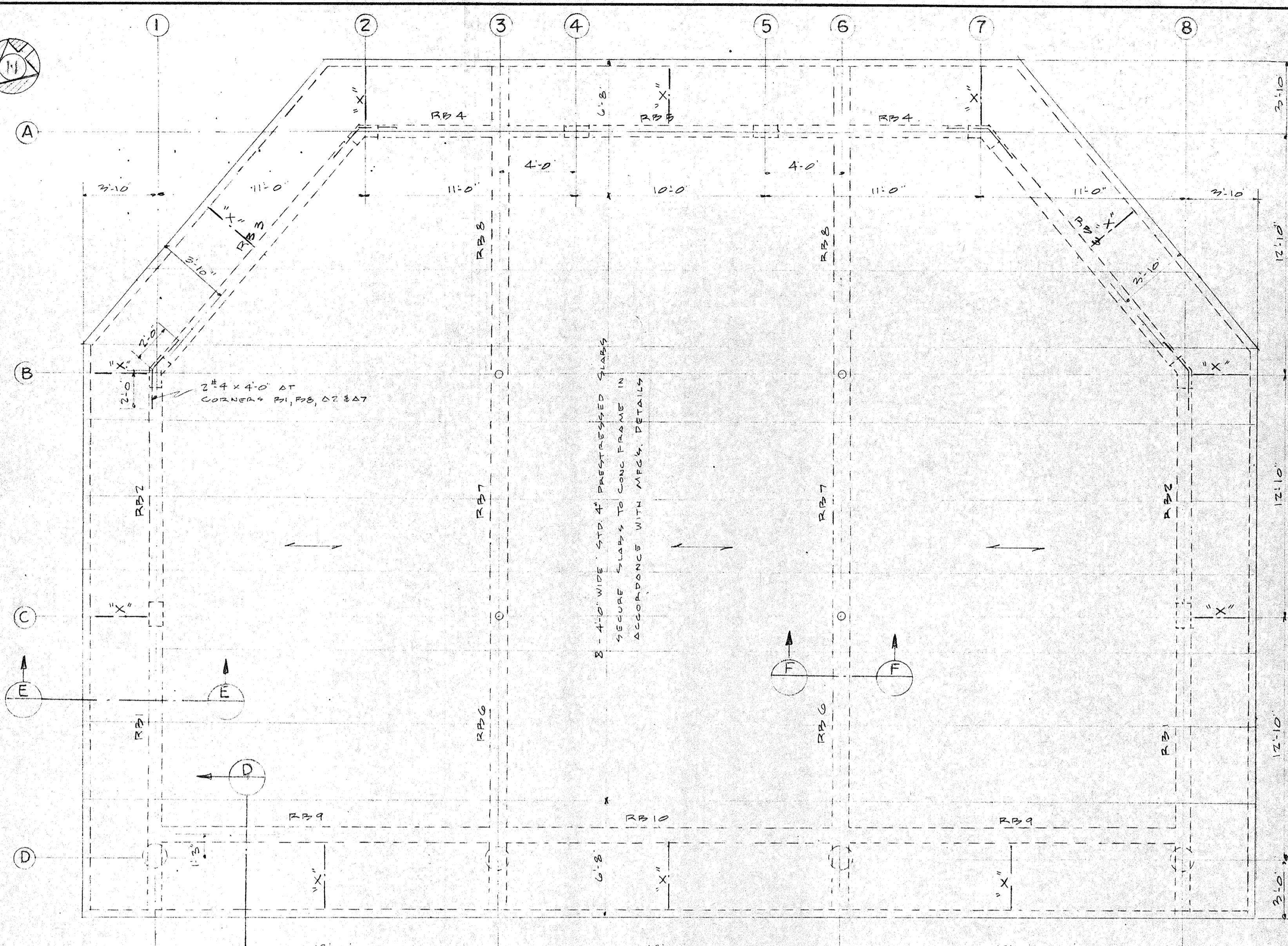
RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.
ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCOA, FLORIDA

DATE: APRIL 1961
DESIGNED: BJA
DRAWN: W.T.M. FW
CHECKED: BJA
APPROVED: LFN
SCALE: AS SHOWN
JOB NO.: SP-4506
FILE NO.: SP-4506-17

APPROVED FOR RADER AND ASSOCIATES: *Arnold W. Eckhoff*
REGISTERED ARCHITECT NO. 1387 STATE OF FLORIDA



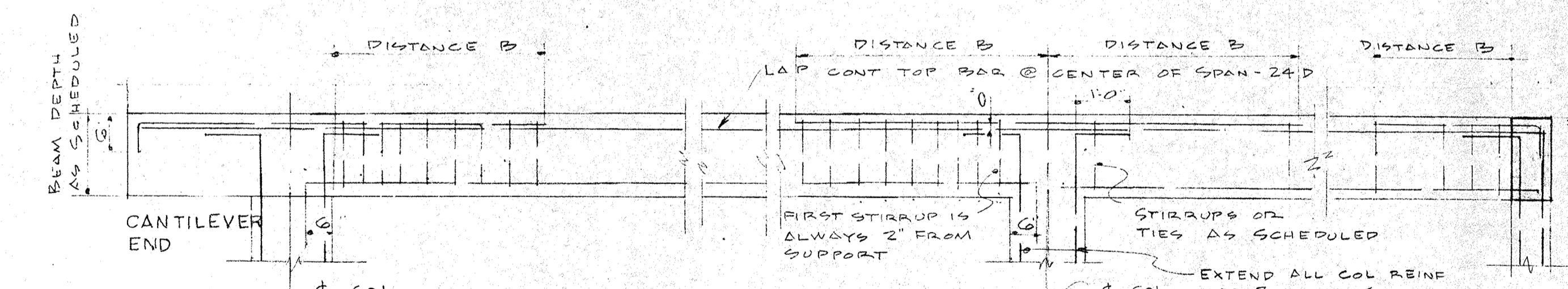
FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"



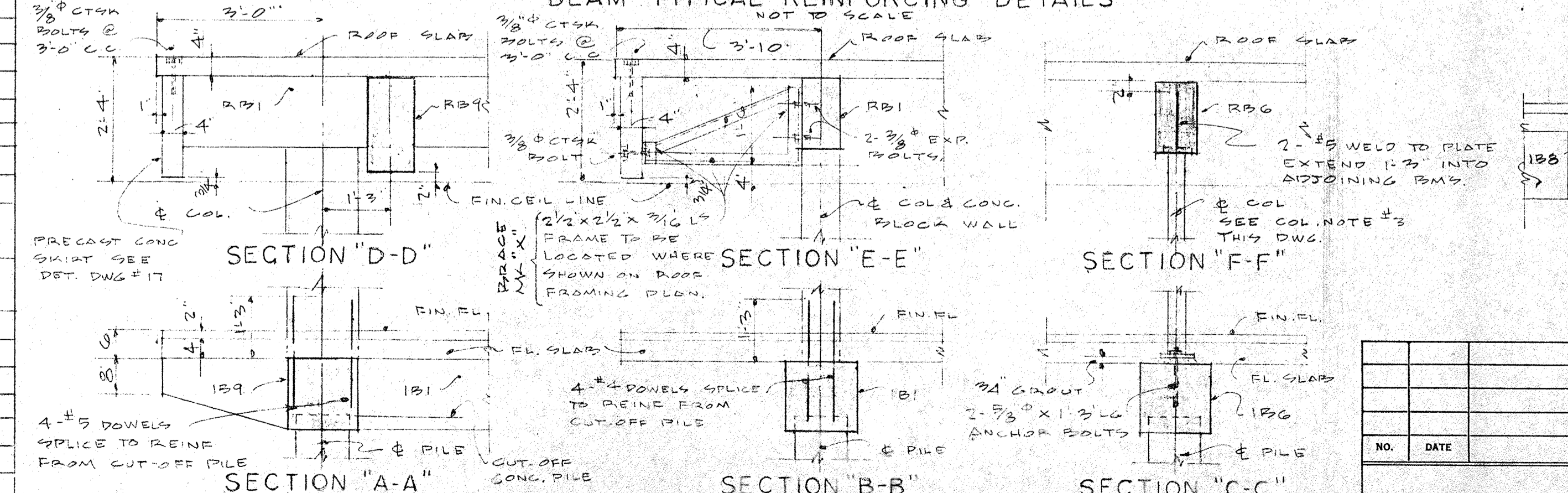
ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"

BEAM SCHEDULE

BEAM MARK	WIDTH X DEPTH INCHES	BOTTOM REIN		TOP REIN AT MIDSPAN		TOP REIN AT BEAM ENDS		TIE OR STIRRUP SPACING (#3 THROUGHOUT)
		ADDED MIDSPAN BARS	FULL LENGTH BARS	REIN AT MIDSPAN	DIST B	ADDED TOP BARS AT ENDS	DIST B	
RB1	14x12		2#7	1#6	2'-6"	2#6	2'-6"	
RB2	14x12		2#7	1#6	2'-6"	2#6	2'-6"	
RB3	14x12		2#7	1#6	2'-6"	2#6	2'-6"	
RB4	14x16		2#5	1#4	2'-6"	2#5	2'-6"	
RB5	14x16		2#5	1#4	2'-6"	2#5	2'-6"	
RB6	14x16		2#9	1#8	4'-3"	2#9	4'-3"	10 @ 3" @ 4", 1 @ 6"
RB7	14x16		2#9	1#8	4'-3"	2#9	4'-3"	10 @ 3" @ 4", 1 @ 6"
RB8	14x16		2#9	1#8	4'-3"	2#9	4'-3"	10 @ 3" @ 4", 1 @ 6"
RB9	14x12		2#6	1#4	2'-6"	2#5	2'-6"	
RB10	14x12		2#6	1#4	2'-6"	2#5	2'-6"	
RB1	8x12 (NOMINAL WD)		2#6	1#5	2'-6"	2#5	2'-6"	2#5 EXTEND INTO CANTILEVER
RB2	8x12 (NOMINAL WD)		2#6	1#5	2'-6"	2#5	2'-6"	2#5
RB3	8x12 (NOMINAL WIDTH)		2#6	1#5	2'-6"	2#5	2'-6"	2#5
RB4	8x12 (NOMINAL WIDTH)		2#6	1#5	2'-6"	2#5	2'-6"	2#5
RB5	8x12 (NOMINAL WD)		2#6	1#5	2'-6"	2#5	2'-6"	2#5
RB6	10x16		2#6	1#6	2'-9"	2#6	2'-9"	2#6 EXTEND INTO CANTILEVER
RB7	10x16		2#6	1#6	2'-9"	2#6	2'-9"	2#6
RB8	10x16		2#6	1#6	2'-9"	2#6	2'-9"	2#6
RB9	8x12 (NOMINAL WD)		2#6	1#5	2'-6"	2#5	2'-6"	2#5
RB10	8x12 (NOMINAL WD)		2#6	1#5	2'-6"	2#5	2'-6"	2#5



BEAM-TYPICAL REINFORCING DETAILS



COLUMN NOTES:

- CONCRETE COLS. D1, D3, D6 & D8 - 16"Ø REINFORCED WITH 4-#5 VERT @ #2 TIES @ 12" OC
- CONCRETE COLS. A4, A5, C1 & C5 - 8" X 16" (NOMINAL DIMENSIONS) DO. DO. A2, A7, B1 & B3 - 8" X 16" (NOMINAL DIMENSIONS) REINFORCED WITH 4-#4 VERT @ #2 TIES @ 12" OC
- PROVIDE DOWELS AS CALLED FOR IN FLOOR R.M.'S @ COL. LOCATIONS
- COLS. B3, B6, C3 & C6 TO BE 4"Ø - 10 GA STD. STEEL PIPE, CONCRETE FILLED WITH 6" X 6" X 6" BS WELDED TO COL TOP & BOTT SEE DETAIL THIS DWG.

NOTE:

SEE DWG #13 FOR GENERAL STRUCTURAL NOTES
SEE DWG #5 FOR CONCRETE PILE SIZE & LOCATION
SCALE OF DWG. IS 1/2" = 1'-0" UNLESS OTHERWISE NOTED.

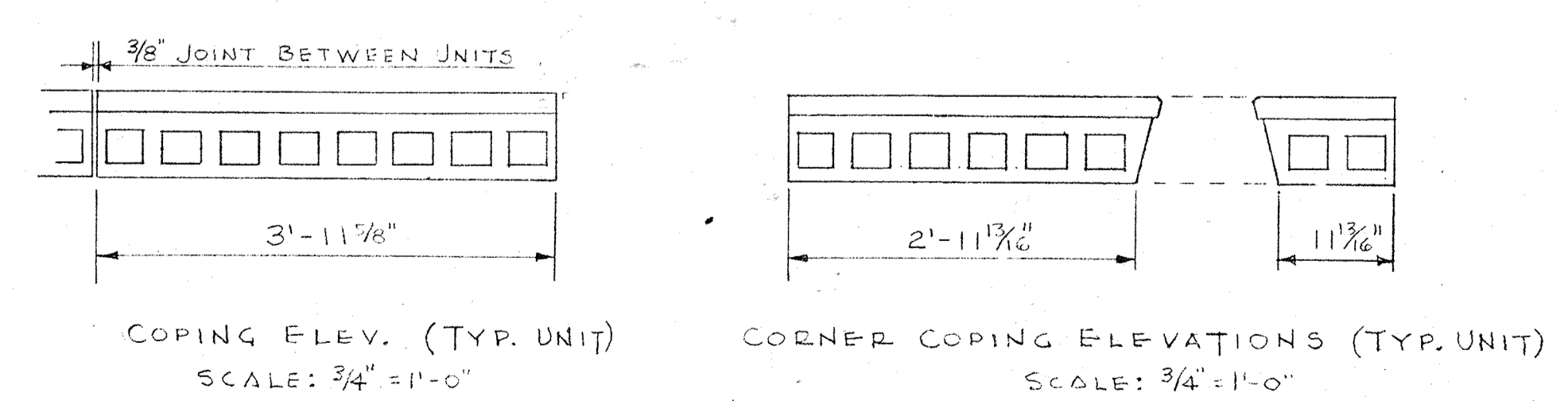
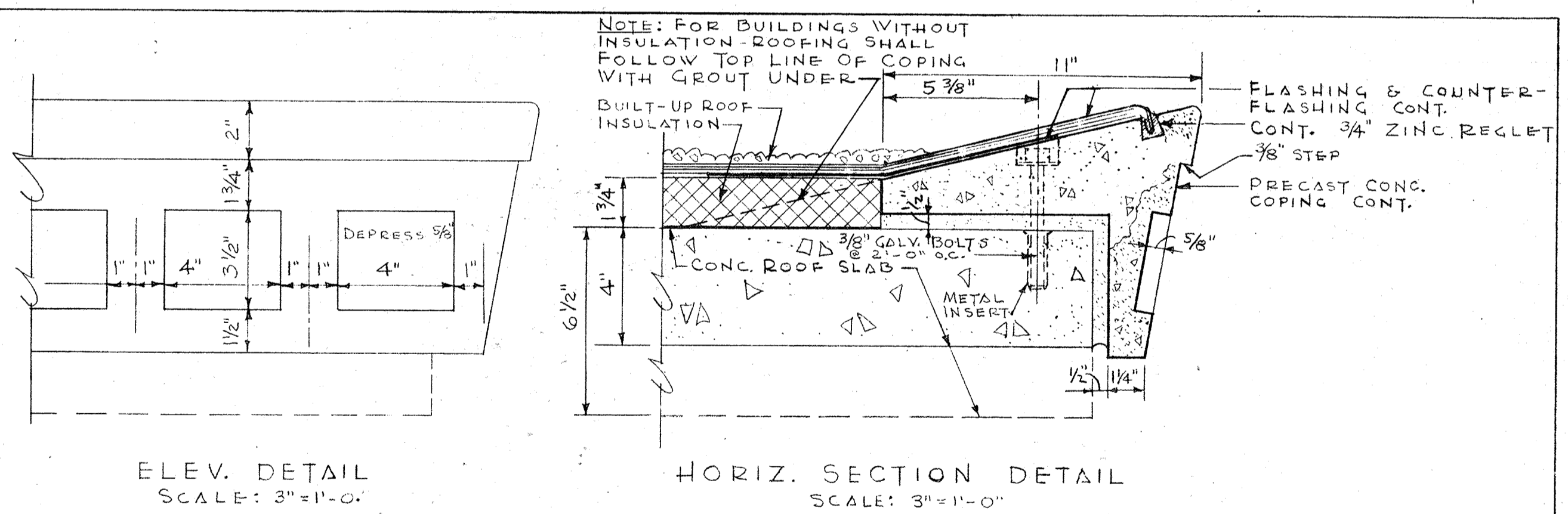
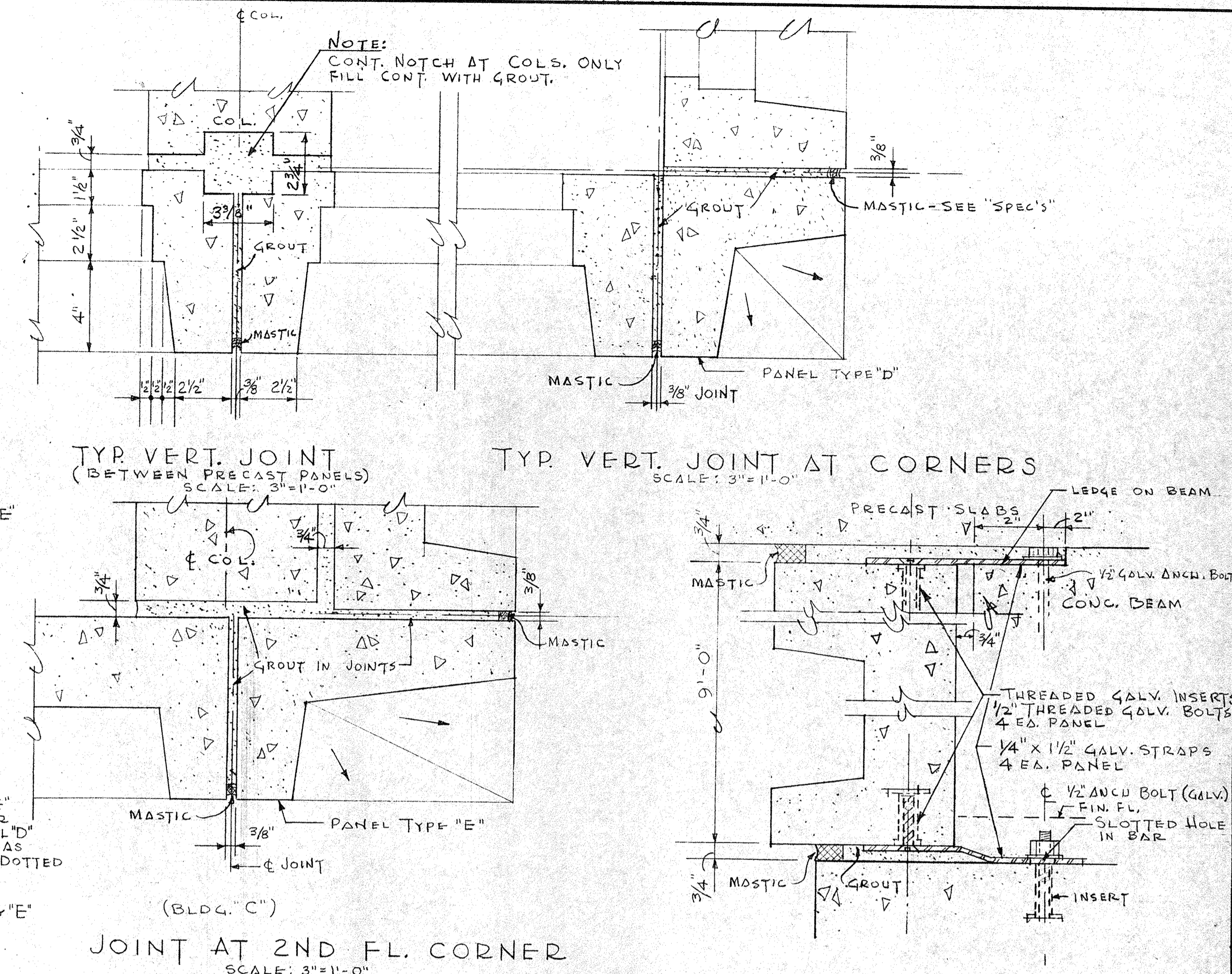
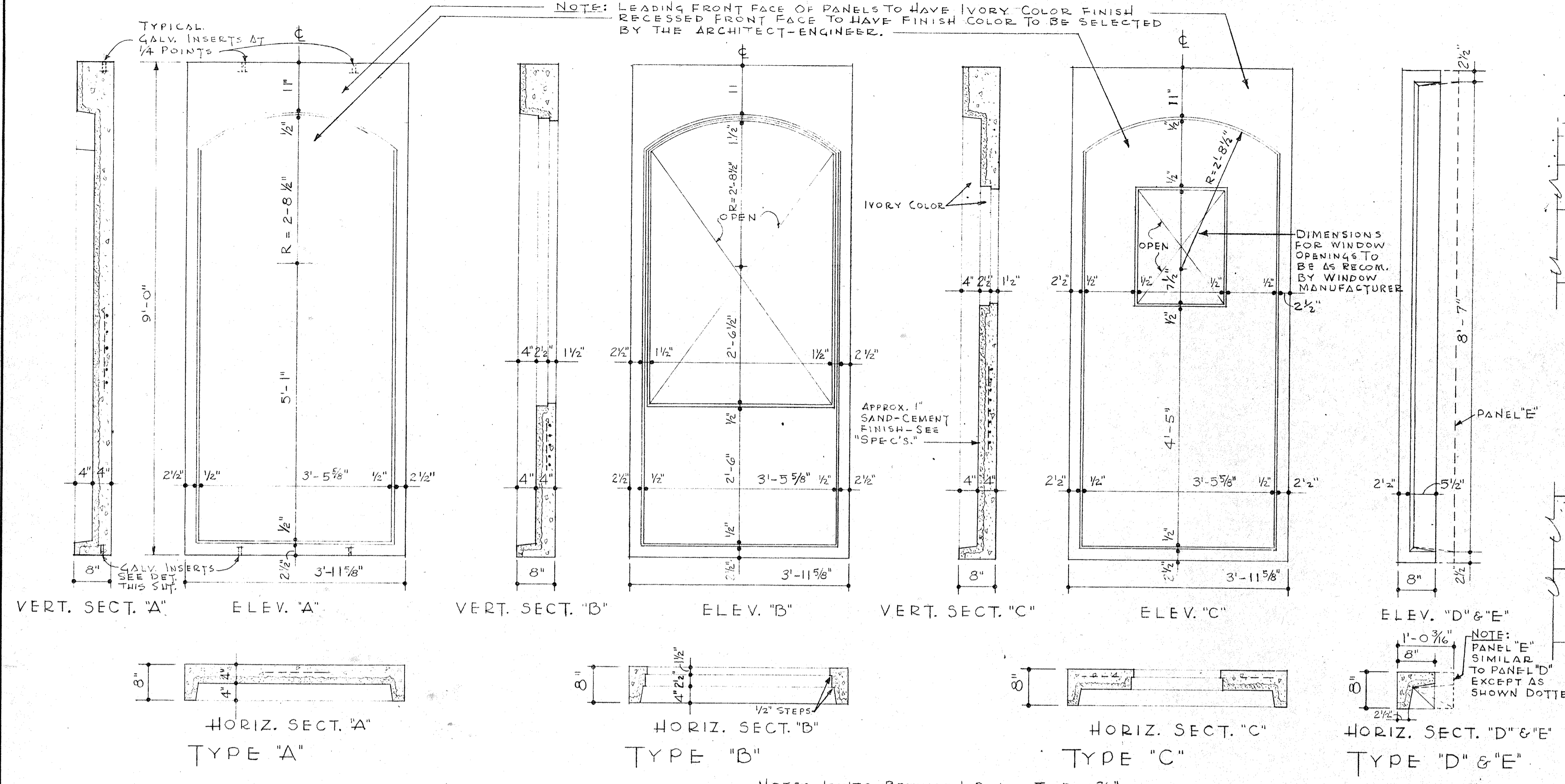
CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
YACHT BROKER OFFICES
STRUCTURAL
PLANS AND DETAILS

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA —
ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — WASHINGTON, D. C.
COCA, FLORIDA

DATE: APRIL 1961
DESIGNED: W.T.M.
DRAWN: W.T.M.
CHECKED: BJA
APPROVED: LFN
SCALE: AS SHOWN
JOB NO.:
FILE NO.: SP-4506
REGISTERED ENGINEER NO. 3345 STATE OF FLORIDA

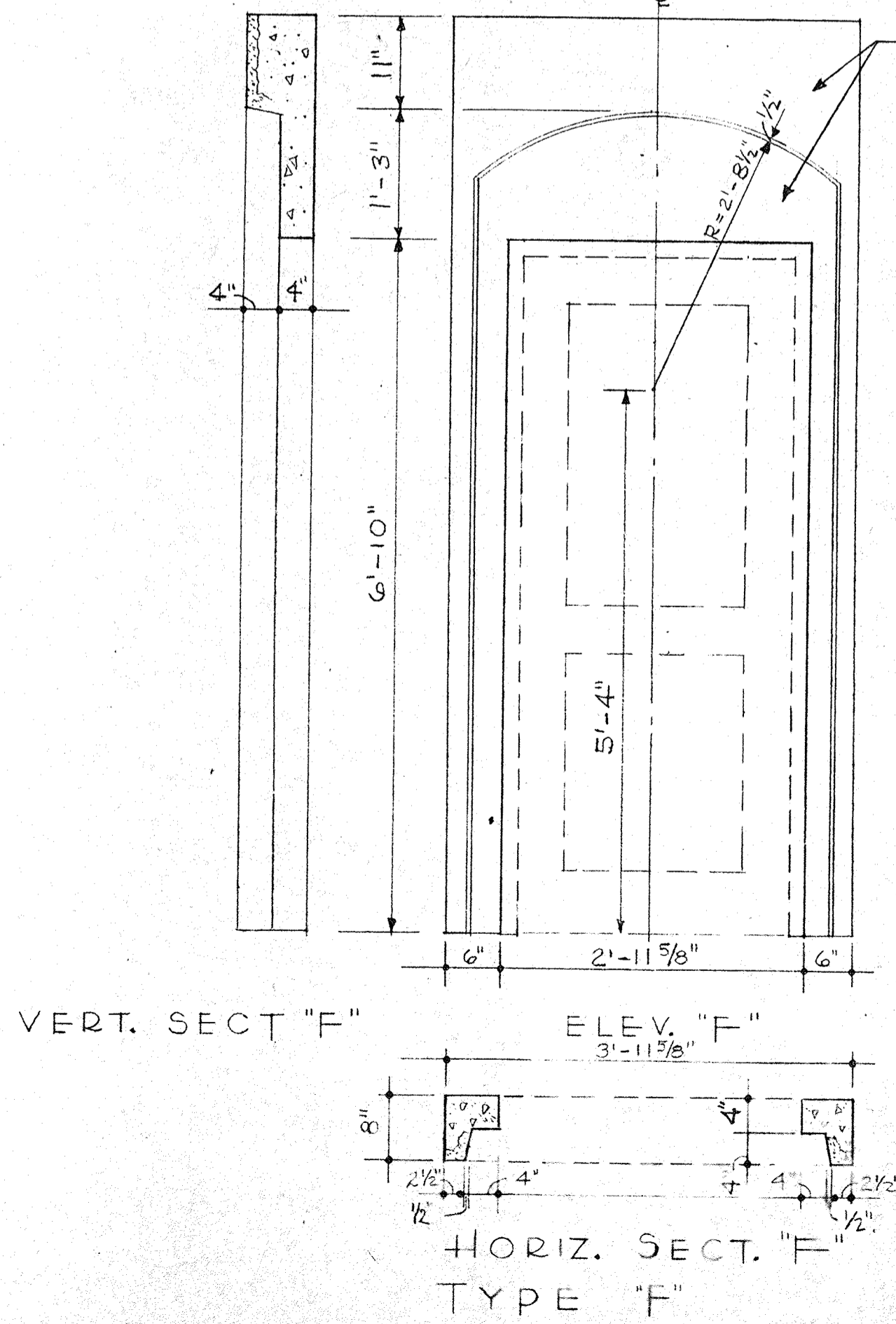
NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.

NOTE: LEADING FRONT FACE OF PANELS TO HAVE IVORY COLOR FINISH RECESSED FRONT FACE TO HAVE FINISH COLOR TO BE SELECTED BY THE ARCHITECT-ENGINEER.



COPING DETAILS

NOTE: CONTRACTOR SHALL SUBMIT SHOP DRAWING SHOWING FULL SIZED DETAILS OF COPING TO THE ARCHITECT FOR APPROVAL



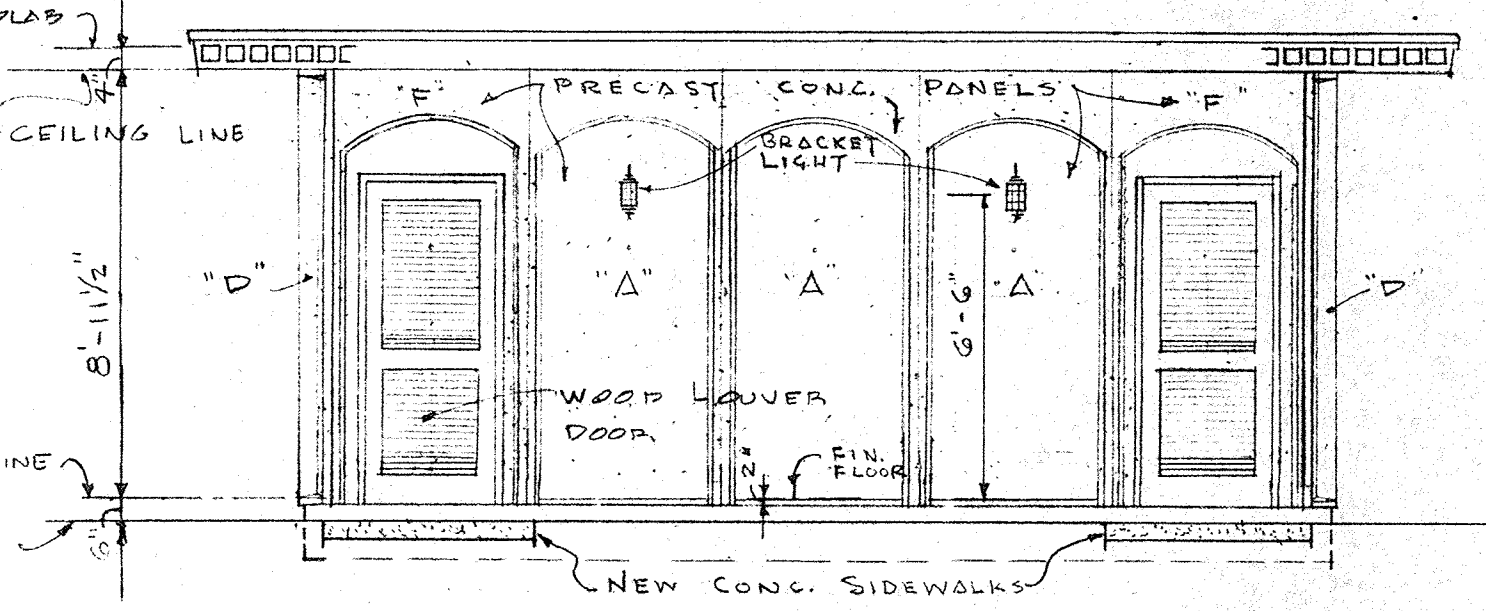
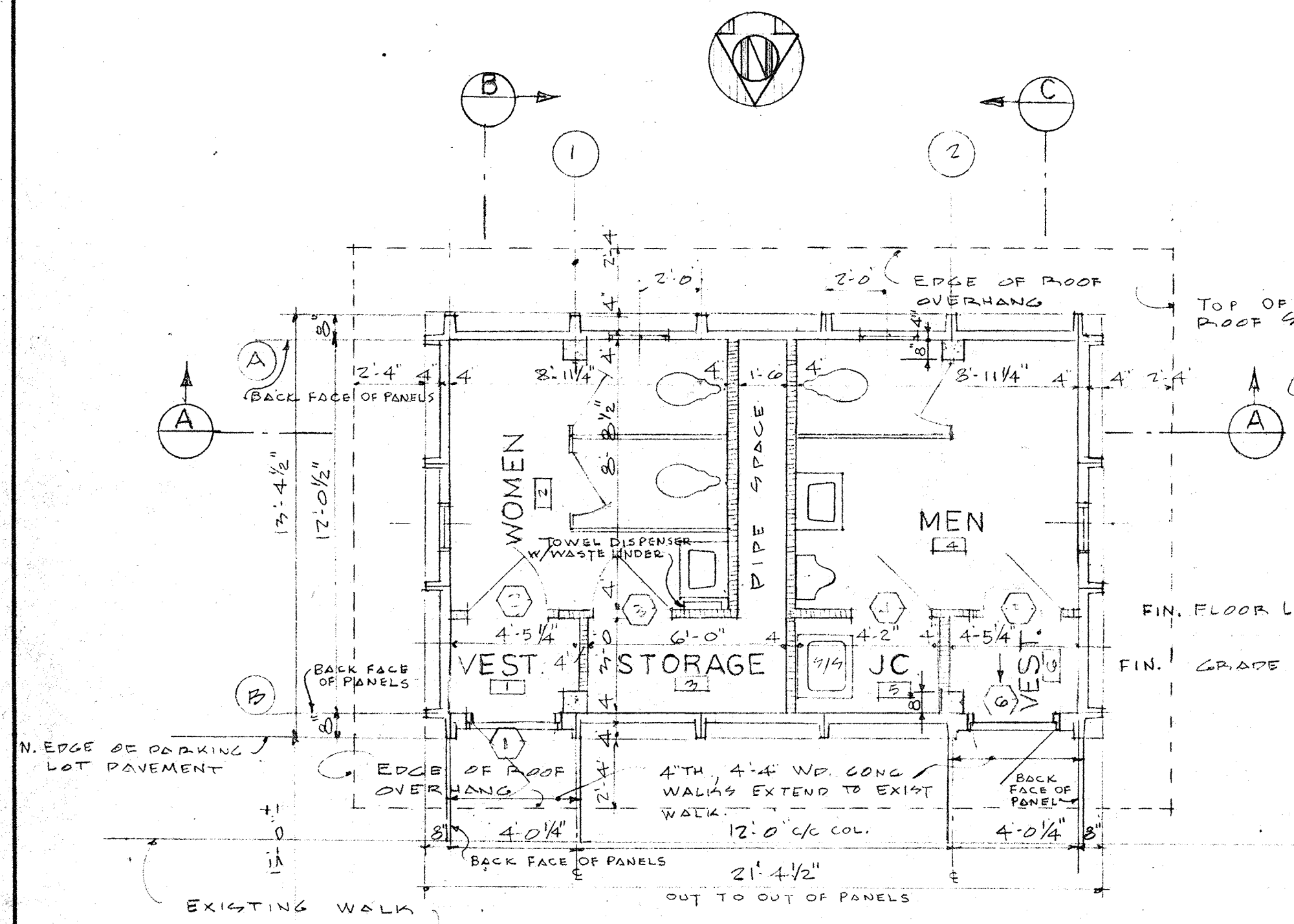
PRE-CAST CONCRETE PANEL DETAILS

SCALE: 3/4"=1'-0"

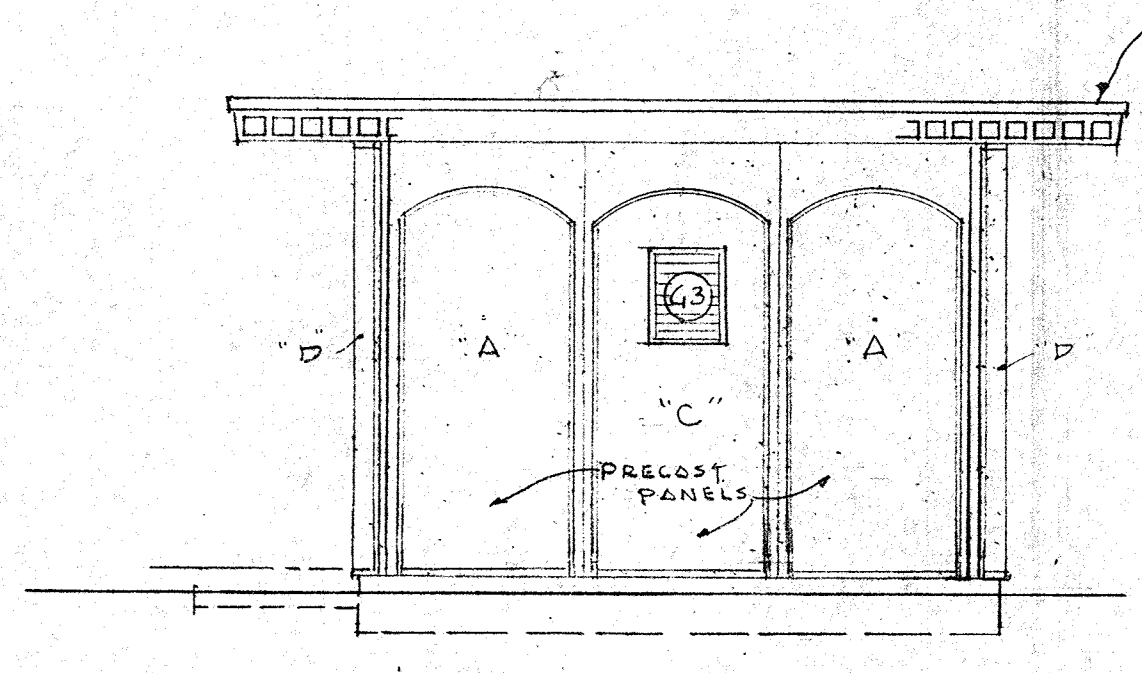
(CONTRACTOR TO FURNISH SHOP DRAWINGS SHOWING REINFORCING TO THE ARCHITECT FOR APPROVAL)

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.

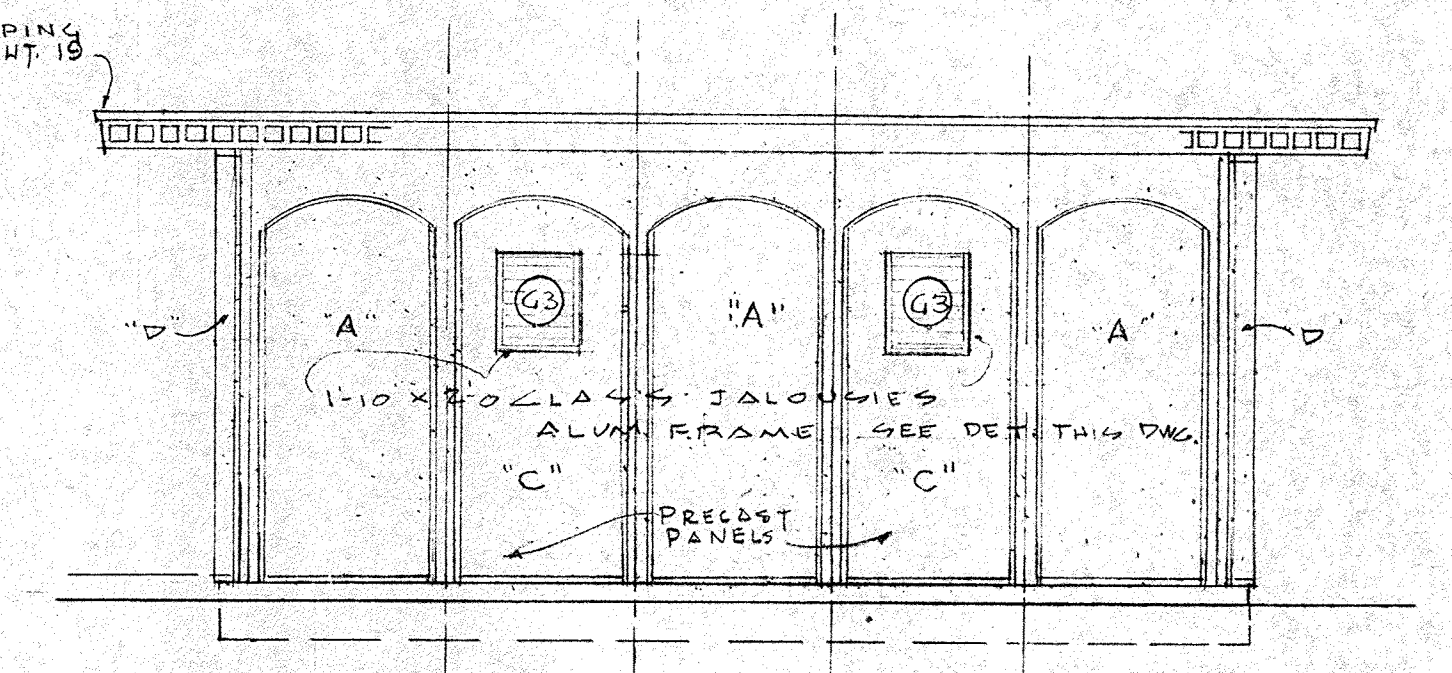
CITY OF ST. PETERSBURG FLORIDA		DATE APRIL 1961
CENTRAL YACHT BASIN MARINA		DESIGNED B.S.A.
ARCHITECTURAL TYPICAL PRE-CAST PANELS AND DETAILS		DRAWN F.W.V.
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS		CHECKED B.S.A.
KINGSTON, JAMAICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C. ST. PETERSBURG, FLORIDA ORLANDO, FLORIDA COCOA, FLORIDA		APPROVED L.F.N.
APPROVED FOR RADER AND ASSOCIATES		SCALE AS SHOWN
BY <i>Arnold W. Eckhoff</i>		JOB NO. SP-4506
REGISTERED ENGINEER NO. 1 STATE OF FLORIDA		FILE NO. SP-4506-119



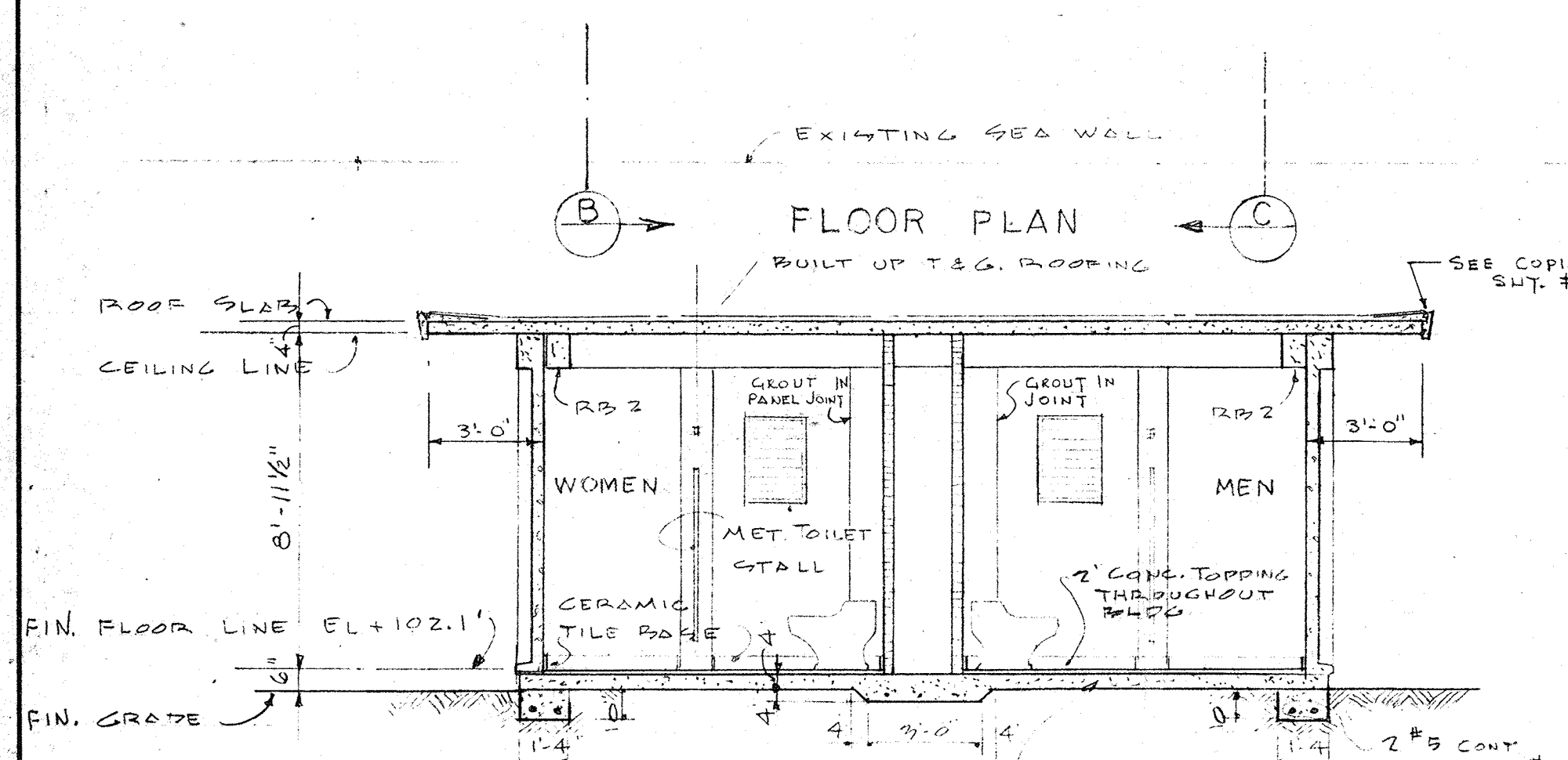
NORTH ELEVATION



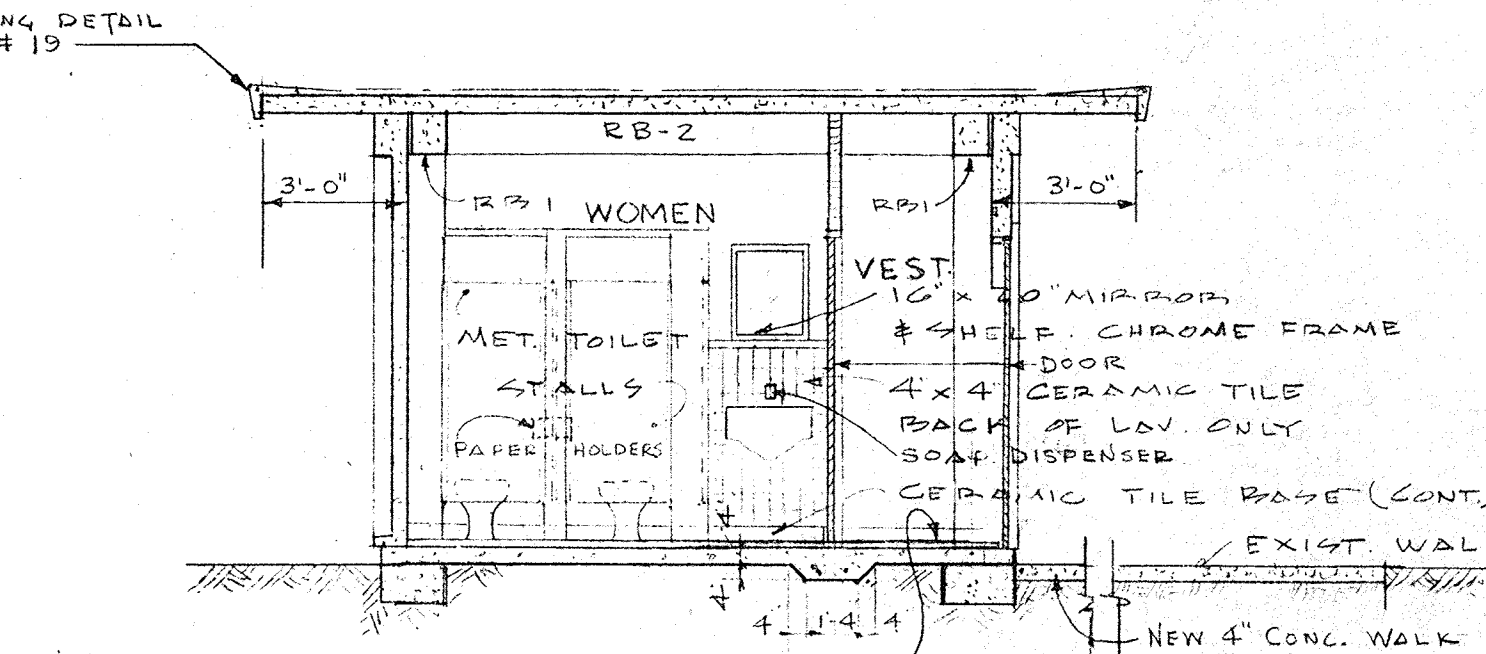
WEST ELEVATION
EAST ELEVATION SIMILAR



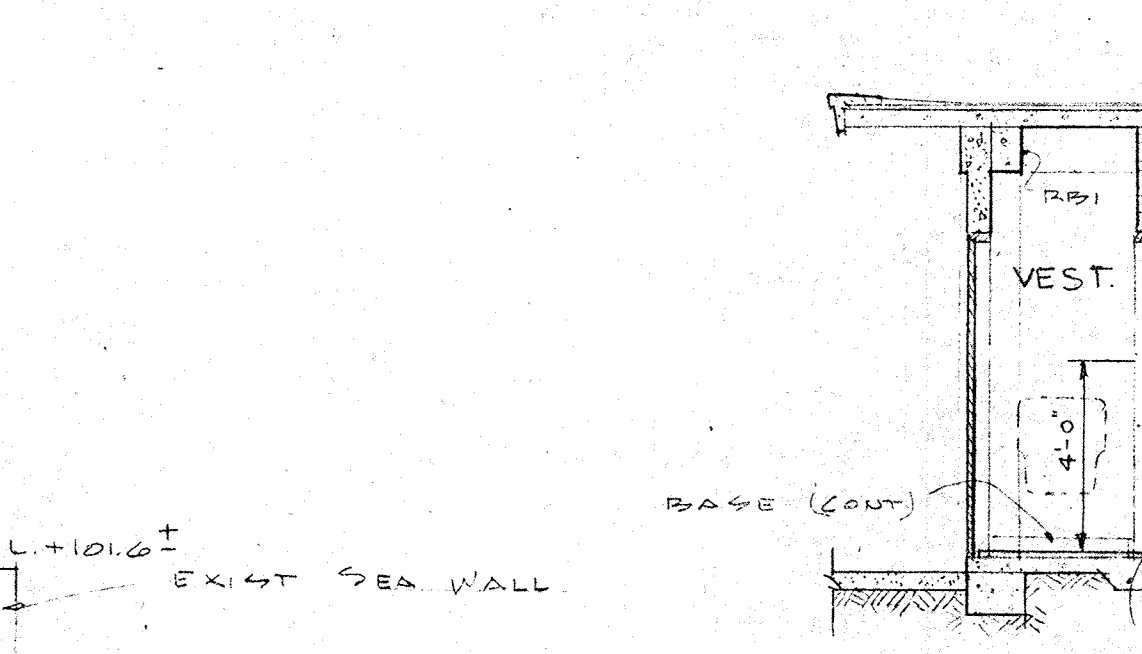
SOUTH ELEVATION



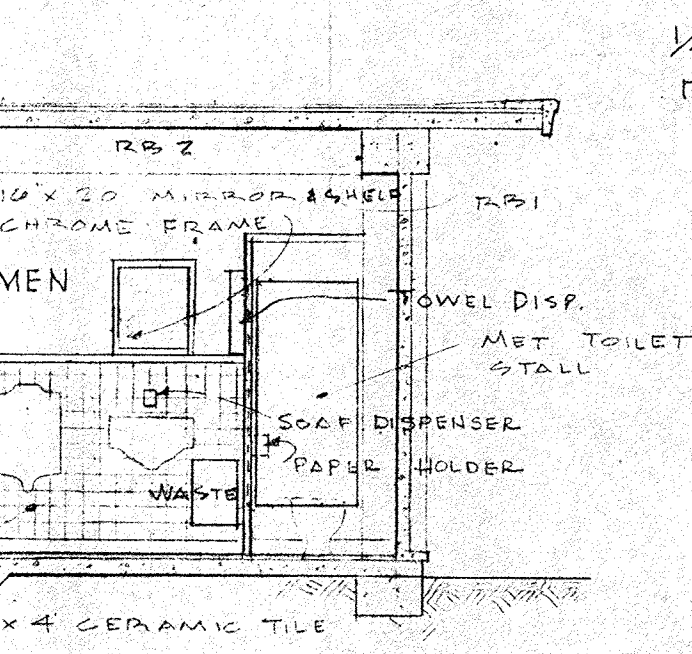
FLOOR PLAN



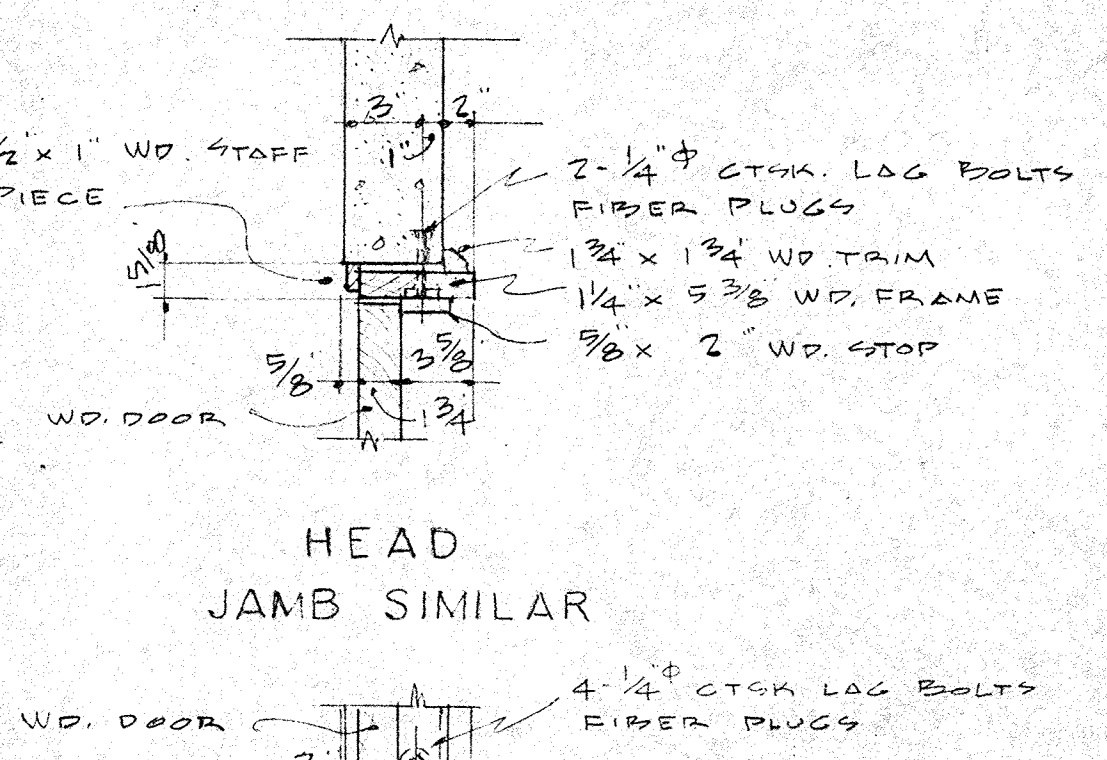
SECTION "A-A"



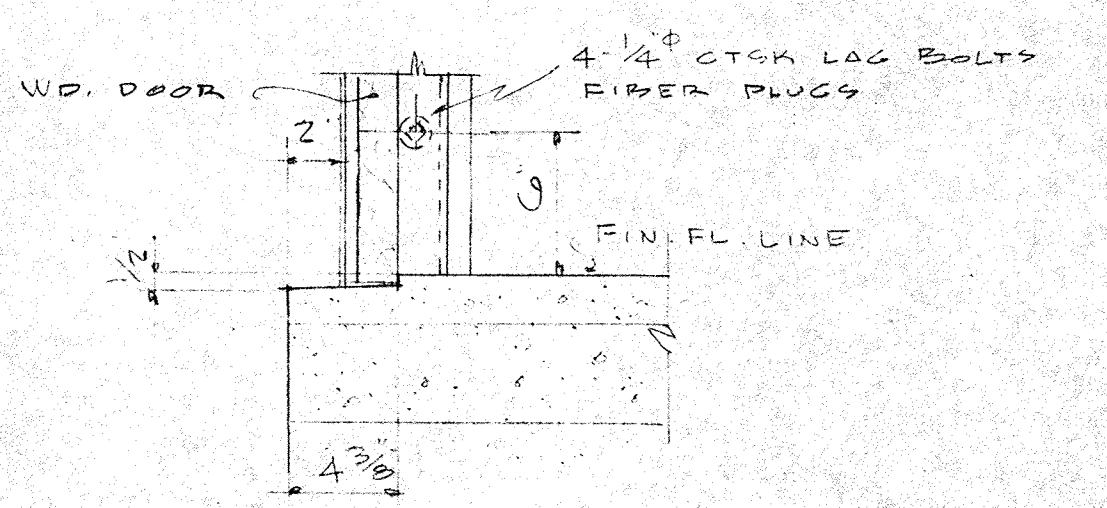
SECTION "B-B"



SECTION "C-C"



HEAD
JAMB SIMILAR



SILL
DOOR FRAME DETAILS

ROOM FINISH SCHEDULE

RM NO.	ROOM	FLOOR	WAINSCOT	WALLS		CEILING		WINDOW STUOLS	REMARKS
				MAT'L	FINISH	MAT'L	FINISH		
1	VESTIBULE	CEMENT	CEMENT	NONE	CEMENT PAINT	CEMENT	PAINT		
2	WOMEN	TILE	TILE	PART TILE	DO	DO	DO	CONC.	SEE SEC B-B FOR WAINSCOT
3	STORAGE	CEMENT	NONE	NONE	DO	DO	DO		
4	MEN	TILE	TILE	PART TILE	DO	DO	DO	CONC.	SEE SEC C-C FOR WAINSCOT
5	JAN. CL.	CEMENT	CEMENT	NONE	DO	DO	DO		
6	VESTIBULE	DO	DO	DO	DO	DO	DO		

NOTE: PAINT UNDERSIDE OF EAVES WITH WATER PAINT
NOTE: SEE SHEET # FOR CEMENT BASE DETAIL

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	JAMB TYPE	SIZE	MAT'L	THRESH.	VISION PANEL	REMARKS
1	LOUVER W/SCREEN	WOOD	2'-8" x 1'-3/4"	WOOD	NONE		SEE NORTH ELEVATION
2	DO	DO	2'-0" x 8' x 1'-3/4"	DO	MARBLE		
3	FLUSH	DO	DO	DO	DO		
4	DO	DO	DO	DO	DO		
5	LOUVER	DO	DO	DO	DO		
6	LOUVER W/SCREEN	DO	2'-8" x 8' x 1'-3/4"	DO	NONE		SEE NORTH ELEVATION

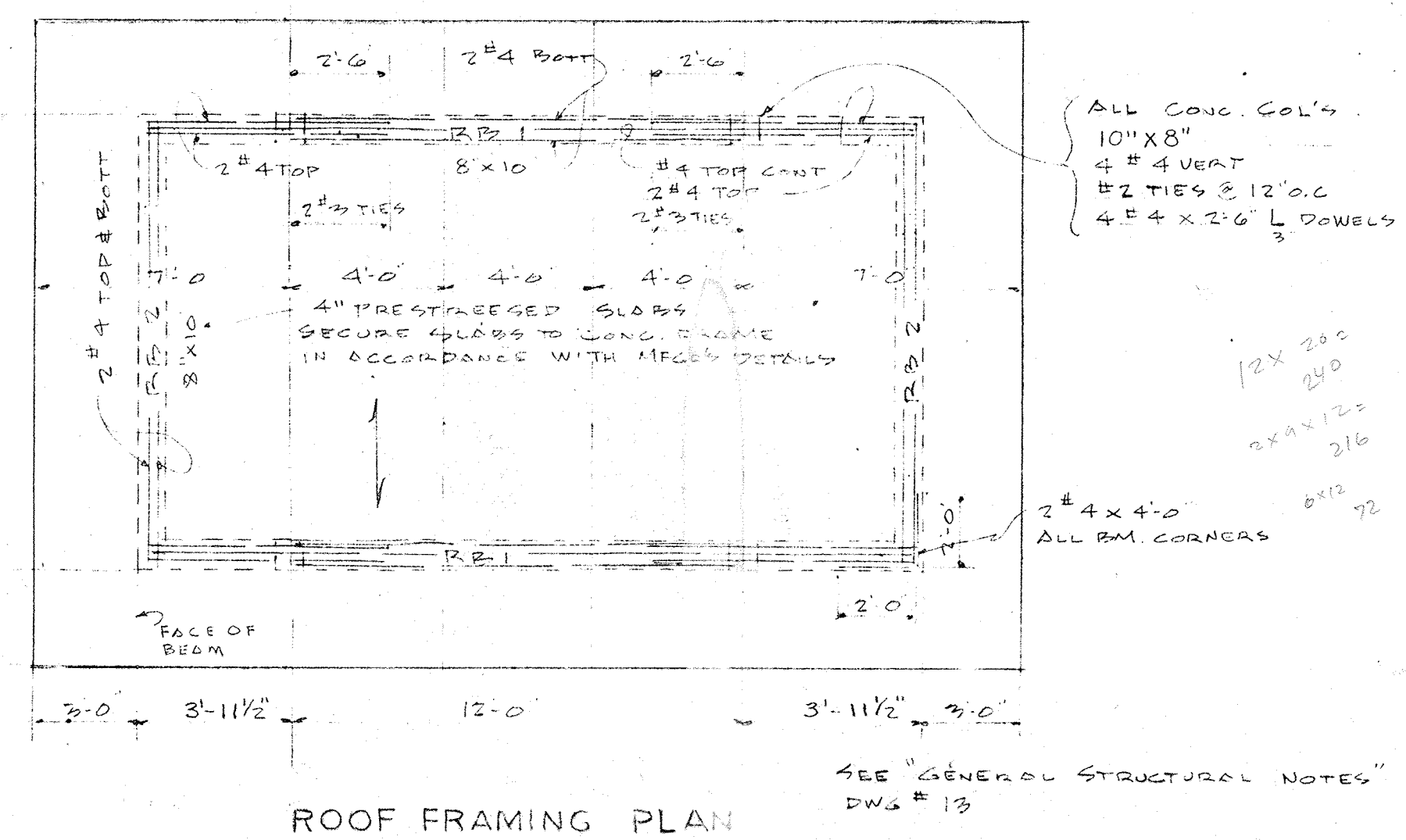
③ INDICATES OBSCURE GLASS

JALOUSIE WINDOW DETAILS
SCALE 1/2" = 1'-0"

NOTE: ALL JALOUSIE SASH SECTIONS SHOWN ARE STOCK TYPE. SEE SPECS.

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.

REVISIONS



ROOF FRAMING PLAN

CITY OF ST. PETERSBURG
FLORIDA
DESIGNED BY BSA
DRAWN BY W.T.A.F.W.
CHECKED BY BSA
APPROVED BY L.F.N.
SCALE AS SHOWN
JOB NO. SP-4506
FILE NO. SP-4506-120

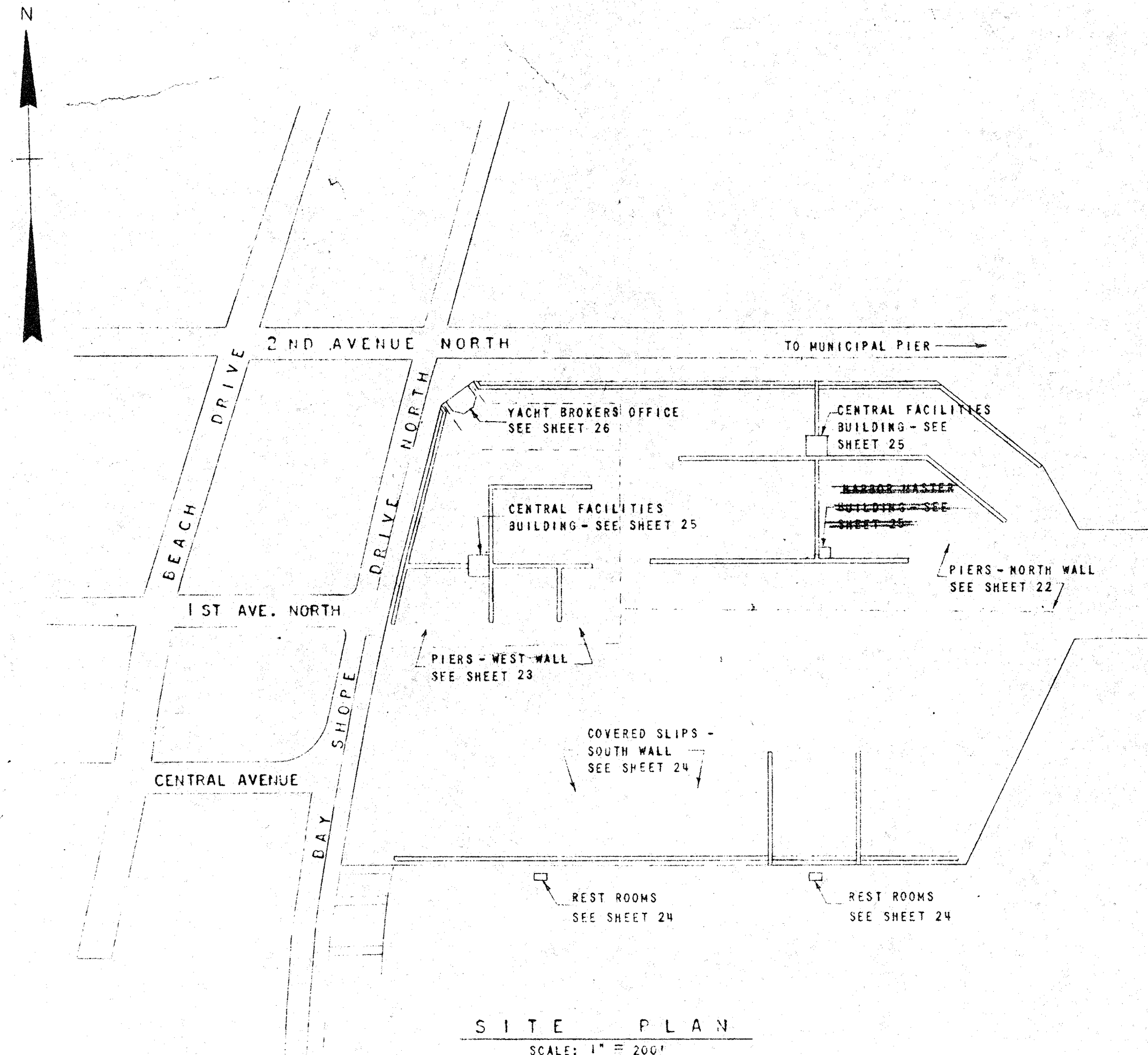
RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
KINGSTON, JAMICA, W. I. — MIAMI, FLORIDA — WASHINGTON, D. C.
ST. PETERSBURG, FLORIDA — ORLANDO, FLORIDA — COCOA, FLORIDA
APPROVED FOR RADER AND ASSOCIATES
REGISTERED ARCHITECT NO. 1387 STATE OF FLORIDA

GENERAL NOTES

- ELECTRICAL SERVICE 120/208 VOLTS, 3 PHASE, 4 WIRE, WYE CONNECTED FOR ALL PIERS, AND 120/240 VOLTS, 1 PHASE, 3 WIRE, FOR YACHT BROKERS OFFICES.
- PROVIDE 3/4" EXTERIOR GRADE "B-B" PLYWOOD BACKBOARD OF SUFFICIENT SIZE FOR MOUNTING ELECTRICAL EQUIPMENT, WHERE INDICATED. BACKBOARD SHALL BE PAINTED WITH TWO COATS OF GRAY ENAMEL ON ALL SIDES PRIOR TO INSTALLATION.
- ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL UNLESS SPECIFICALLY OTHERWISE INDICATED. ALL CONDUIT ON OR UNDER PIERS SHALL BE RIGID PVC.
- NO CONDUIT ON PIERS SHALL BE SMALLER THAN 3/4" TRADE SIZE UNLESS SPECIFICALLY OTHERWISE INDICATED. CONDUIT IN BUILDINGS MAY BE 1/2" TRADE SIZE WHERE PERMITTED BY CODES.
- INSTALL A NUMBER 12 TW SOLID COPPER PULL WIRE IN ALL EMPTY CONDUITS FOR FUTURE USE. A BRASS TAG SHALL BE ATTACHED TO EACH END OF THE PULL WIRE INDICATING LOCATION OF THE OPPOSITE END.
- CONDUITS SHALL BE CONCEALED AND/OR EXPOSED AS INDICATED.
- EXPOSED CONDUITS SHALL BE RUN PERPENDICULAR OR PARALLEL TO WALLS, CEILINGS OR FLOOR, OR STRUCTURES.
- EXPOSED CONDUITS AND FITTINGS SHALL BE ATTACHED TO MASONRY TYPE CONSTRUCTION AS INDICATED OR SUGGESTED ON PLANS. "CONCRETE" NAILS ARE NOT ACCEPTABLE.
- LOCATION OF CONDUIT "STUB-UPS" SHALL BE VERIFIED AT THE JOB SITE.
- MINIMUM CONDUCTOR SIZE NO. 12 AWG FOR ANY TYPE OF CIRCUIT UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUITS RATED 20 AMP. OR LESS SHALL BE NO. 10 WHEN THE ONE WAY CIRCUIT DISTANCE EXCEEDS 90 FEET, UNLESS OTHERWISE INDICATED.
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "TW" UNLESS OTHERWISE INDICATED.
- ALL PIER RECEPTACLES SHALL BE CONNECTED TO FEEDER TAPS IN SUCH A MANNER AS TO BE EVENLY DISTRIBUTED ACROSS THE FEEDER CIRCUIT, THROUGH-OUT THE LENGTH OF THE FEEDER.
- CONDUIT EXPANSION FITTINGS SHALL BE LOCATED IN FEEDER CONDUITS BETWEEN ALL FEEDER TAP BOXES AND IN ALL STRAIGHT EXPOSED CONDUIT RUNS 100 FEET OR MORE IN LENGTH.
- GROUND RODS AT SERVICE ENTRANCES SHALL BE DRIVEN INTO MARINA BOTTOM UNTIL ROD EXTENDS ONLY 6 INCHES ABOVE PIER OR BUILDING FLOOR. EXACT LOCATION OF RODS SHALL BE DETERMINED IN THE FIELD SO THAT RODS MAY BE DRIVEN ALONGSIDE CONCRETE PILES. RODS SHALL BE SUPPORTED ON PILES WITH P.V.C. SUPPORTS AT 10' MIN. INTERVALS AND SHALL BE SUPPORTED AT FLOOR LEVEL BY CAST IRON GALVANIZED FLANGES AND BRONZE THRU BOLTS.

ELECTRICAL LEGEND

- A UPPER CASE LETTERS ON FIXTURE OUTLETS INDICATES FIXTURE TYPE
- a LOWER CASE LETTERS ON FIXTURE OUTLETS INDICATES OUTLET SWITCHING
- 6'-6" AF, AG INDICATE MOUNTING HEIGHT. AF: ABOVE FLOOR; AG, ABOVE GRADE; AP: ABOVE PIER, AR: ABOVE ROOF
- CEILING OUTLET FOR INCANDESCENT FIXTURE
- WALL MOUNTED OR BRACKET OUTLET FOR INCANDESCENT FIXTURE
- PIER LIGHTING FIXTURE - SEE MOUNTING DETAILS SHEETS 22 AND 24
- OUTLET FOR FLOODLIGHT
- CEILING OUTLET FOR FLUORESCENT FIXTURE
- WALL OUTLET FOR FLUORESCENT FIXTURE
- PHOTOCELL, SEE DETAIL SHEET 23
- OUTLET, DUPLEX CONVENIENCE RECEPTACLE, HUBBELL 5262 WITH SIERRA "S-LINE" WALL PLATE, MOUNTED 18" AB. FL. UNLESS OTHERWISE INDICATED
- JUNCTION BOX WITH BLANK COVER, MOUNTING HEIGHT AS INDICATED
- ELECTRICAL DISTRIBUTION EQUIPMENT. REFER TO APPLICABLE RISER DIAGRAMS
- ENTRANCE WEATHERHEAD, CAST METAL TYPE WITH BUSHED HOLES
- ELECTRICAL UNIT HEATER, SEE SHEET 25
- THERMOSTAT
- PIER RECEPTACLES, SEE DETAILS SHEET 27
- PIER TELEPHONE OUTLETS, SEE DETAILS SHEET 27
- CONDUIT RUN UNDERGROUND OR IN SLAB OR UNDER PIER
- CONDUIT RUN CONCEALED IN WALL OR CEILING
- CONDUIT RUN EXPOSED
- HOME RUN TO PANEL INDICATING NUMBER OF CIRCUITS
- TELEPHONE TERMINAL CABINET, ONE PIECE TYPE SQUARE "D" 12184T WITH WOOD BACKING
- BUILDING TELEPHONE OUTLET WITH SIERRA "S-LINE" WALL PLATE
- FEEDER TAP BOX SEE DETAIL SHEET 27
- WALL OUTLET WITH SPST TOGGLE SWITCH, HUBBELL 9805 W/SIERRA PLATE "S-LINE" WALL MOUNTED 48" ABOVE FLOOR UNLESS OTHERWISE INDICATED
- INTERCOM OUTLET SEE RISER THIS SHEET

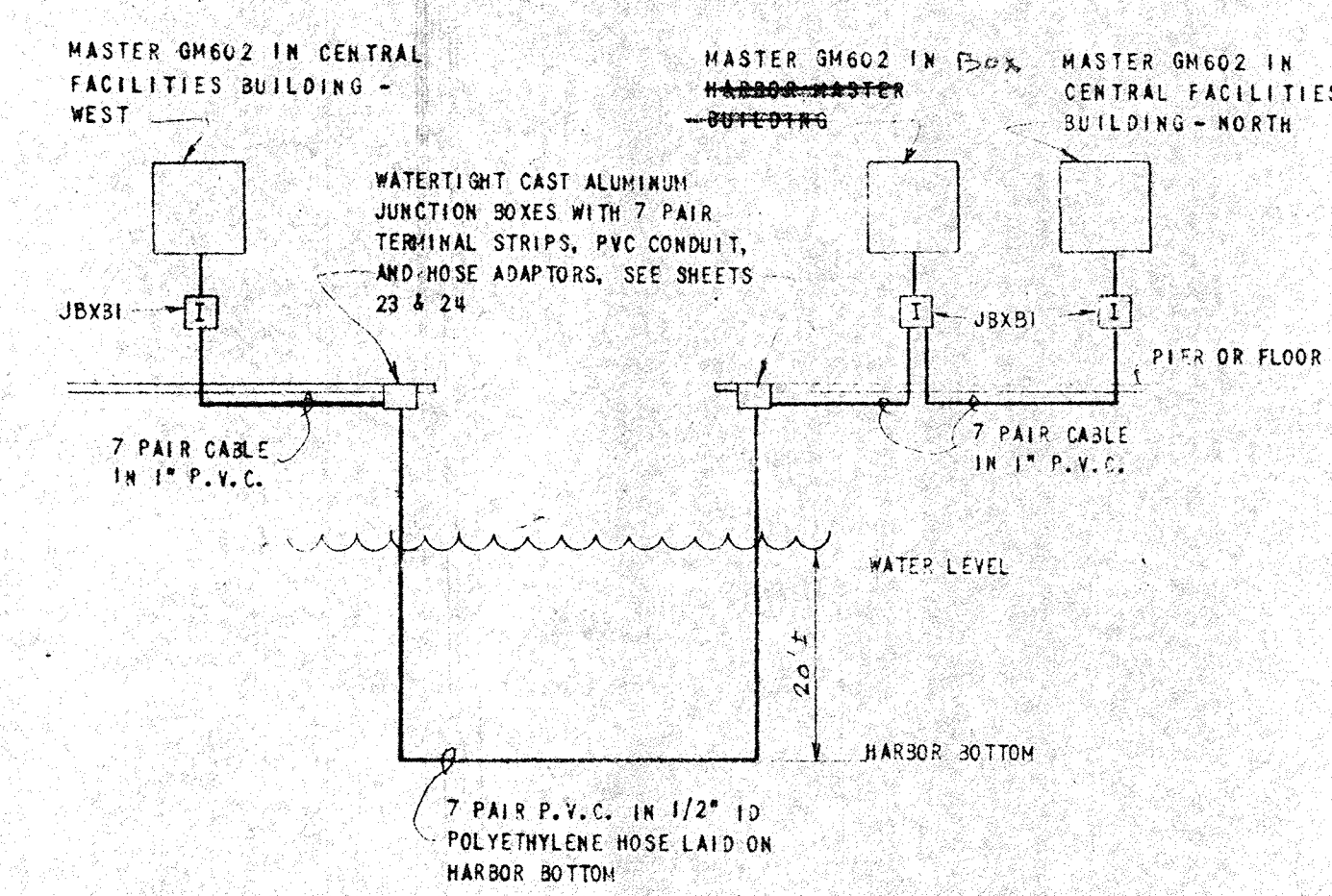


SITE PLAN
SCALE: 1" = 200'

FIXTURE DESIG.	MANUFACTURER	CATALOG NUMBER	LAMPS	MOUNTING	REMARKS
A	GARCY	RS 5604HS-4	4-40W RS	RECESSED	
B	GARCY	TS7611-24H	1-20W RS	WALL 7'-0" A.F.	
C	MCPHILBEN	43-85	1-100W	CEILING	
D	ALABAX	3140	1-100W	CEILING	
E	HOLDCAST	ML131	1-150W PAR 38	BOTTOM OF OVERHANG	
F	GARCY	97224 AG	2-40W RS	CEILING	
G	UNION INSULATING COMPANY	40-68	1-75W INCAND.	MOUNTING INDICATED BY NUMERALS 1, 2, SEE DETAILS	VAPORPROOF, MOLDED OF IMPACT RESISTANT PHENOLIC COMPOUND, MOUNT ON AG4 BOX, W/THREADED 7" CLEAR NAVY TYPE GLOBE, STAINLESS STEEL HTG. SCREWS AND GASKET.
H	HOLOPHANE	04345	1-75W INCAND.	POLE	SEE DETAIL
K	RUSSELL & STOLL	334	1-50W INCAND.	SHOWERS	MOUNTED ON CAST BOX
L	MCPHILBEN	43-40	1-75W INCAND.	WALL	
M	PARAMOUNT	648	1-40W FLUOR.	CEILING	

PANEL	LOCATION	MAINS		BRANCH CIRCUIT FRAME MINIMUM	WFG. AND TYPE	VOLT AMPS
		BREAKER	LOGS			
1D	CENTRAL FACILITIES-W.	400		F	WALKER CDP	117,600
1P	CENTRAL FACILITIES-W.		225	E	WALKER NDP	68,800
1L	CENTRAL FACILITIES-W		100	E	WALKER NLAB 10-4	1,300
2D	CENTRAL FACILITIES-N	400		F	WALKER CDP	140,400
2P	YACHT BROKER OFFICE	100		E	WALKER NLAB8-4AB	5200
2L	CENTRAL FACILITIES-N.		100	E	WALKER NLAB 10-4L	2900
3P	YACHT BROKER OFFICE	100		E	WALKER NLAB8-3AB	5480
4P	YACHT BROKER OFFICE	100		E	WALKER NLAB8-3AB	5200
5P	CENTRAL FACILITIES-N.		225	E	WALKER NDP	62,800
6P	YACHT BROKER OFFICE	225		E	WALKER NDP	19,100
7P	COVERED SLIPS	225		F	WALKER NDP	41,775
3L	COVERED SLIPS		100	F	WALKER NLAB 12-4L	6,975
1C	CENTRAL FAC. - W	100		E		
2C	CENTRAL FAC. - N	100		E		

ALL PANELS ARE OF SURFACE MOUNTED TYPE.



INTERCOM RISER DIAGRAM
NO SCALE

NOTE:
ALL INTERCOM CATALOG NUMBERS REFER TO FISHER BERKELY CORP. EXTACOM SERIES.
ALL INTERCOM CABLES, TO BE 7 PAIR, 22 GAGE SOLID COPPER, PVC INSULATED .016 INCH WALL THICKNESS WITH PVC JACKET OVERALL, .020 WALL THICKNESS.

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
1	4-6-62	ADD PANEL 1C, 2C		

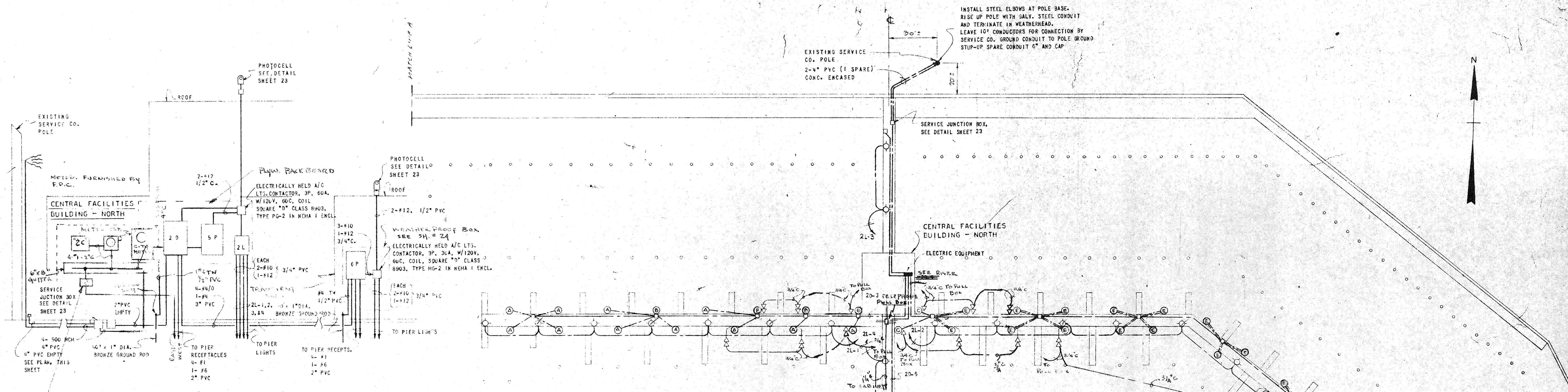
REVISIONS

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
SITE PLAN, LEGEND,
GENERAL NOTES,
FIXTURE SCHEDULE
ELECTRICAL

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
— MIAMI, FLORIDA —

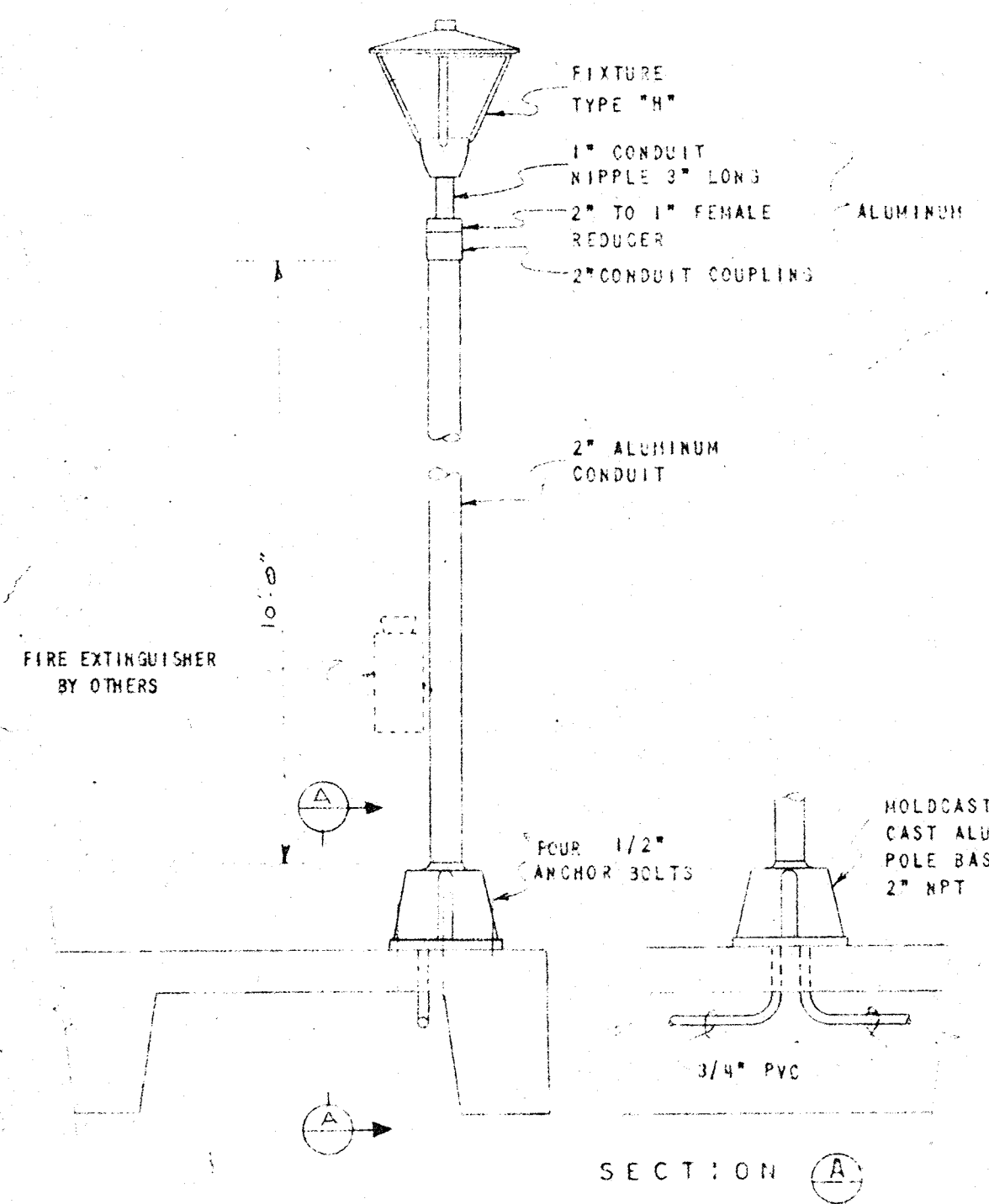
DATE APRIL, 1961
DESIGNED BY JH
DRAWN BY JH
CHECKED BY JH
APPROVED BY JH
SCALE AS SHOWN
JOB NO. SF4506
FILE NO. SF4506-121

APPROVED FOR RADER AND ASSOCIATES BY [Signature]

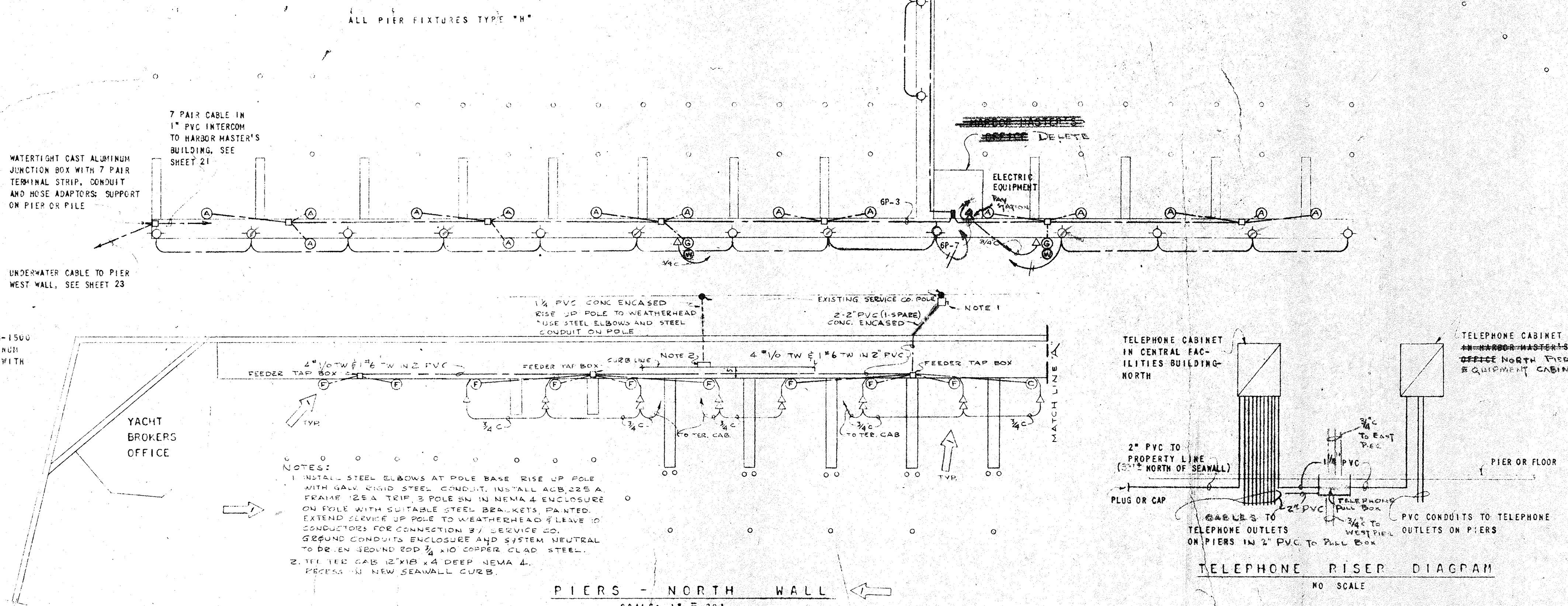


ELECTRICAL RISER DIAGRAM
NO SCALE

100 A. F. FRAME
3 POLE DRKR. IN NEMA 1
ENCLOSURE

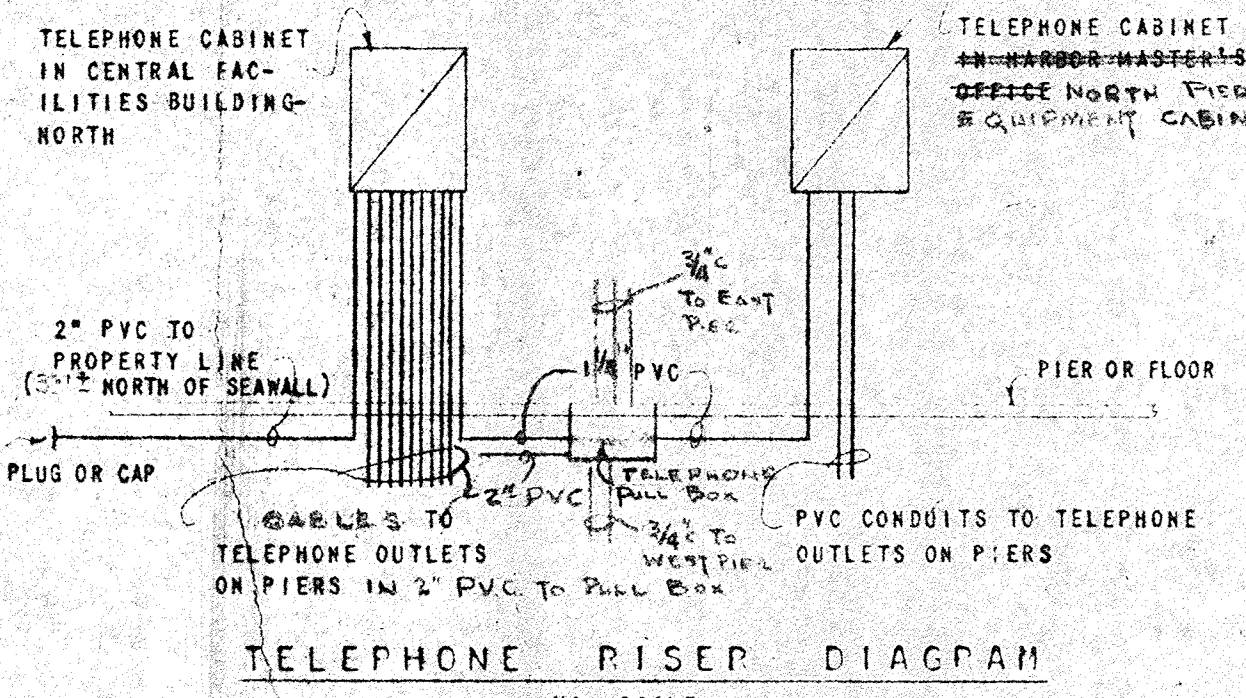


PIER LIGHTING FIXTURE
TYPE "H"
NOT TO SCALE



PIERS - NORTH WALL
SCALE: 1" = 30'

- NOTES:
- INSTALL STEEL ELBOWS AT POLE BASE. RISE UP POLE WITH GALV. ENCL. STEEL CONDUIT. INST. ALL ACB. 225 A. FRAME 125 A. TYP. 3 POLE SW IN NEMA 1 ENCLOSURE ON POLE WITH SUITABLE STEEL BRACKETS. PAINTED. EXTEND SERVICE UP POLE TO WEATHERHEAD. LEAVE 10' CONDUCTORS FOR CONNECTION BY SERVICE CO. GROUND CONDUITS ENCLOSURE AND SYSTEM NEUTRAL TO BE EN. GROUND ROD 3/4" X 10' COPPER CLAD STEEL.
 - 1/4" TEE CAB. 12" X 12" X 4" DEEP NEMA 2. PROCESS IN NEW SEAWALL CURB.



TELEPHONE RISER DIAGRAM
NO SCALE

CO.#4
CO.#2

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
3	9-62	ADD TELEPHONE PULL BOX, REVISE RLV'S		
2	4-62	REVISE METERED SLIPS, ADD PIER LIGHT		
		REVISE PANELS & RISER DIAGRAM		
12	8-61	ADD POWER TO SERVICE TO COMMERCIAL S. ST.	E/P	L/P

REVISIONS

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
PIERS
NORTH WALL
ELECTRICAL

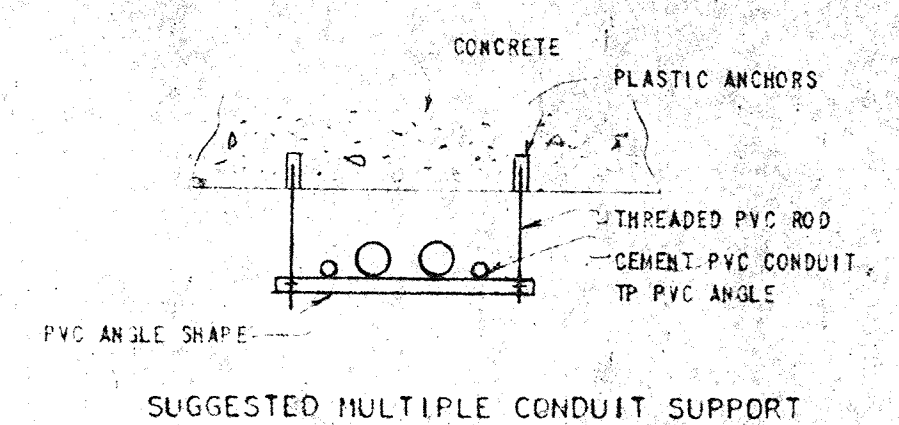
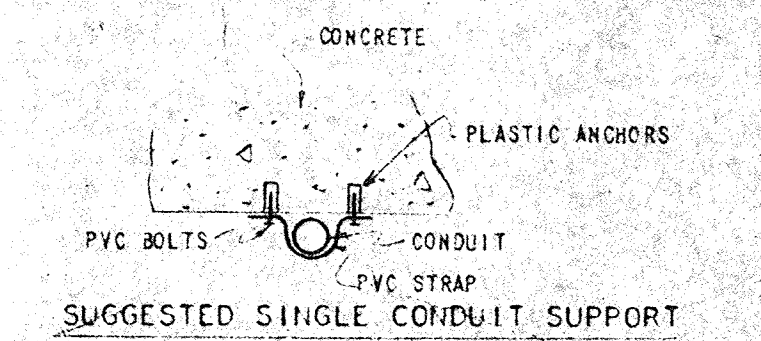
RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
— MIAMI, FLORIDA —

APPROVED FOR
RADER AND ASSOCIATES
REGISTERED ENGINEER NO. 3250 STATE OF FLORIDA

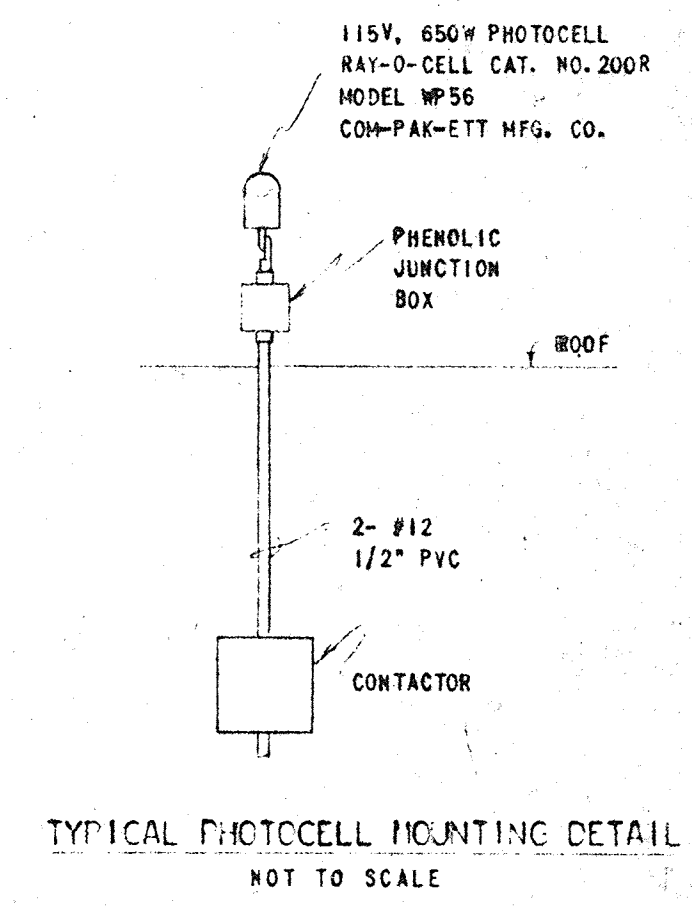
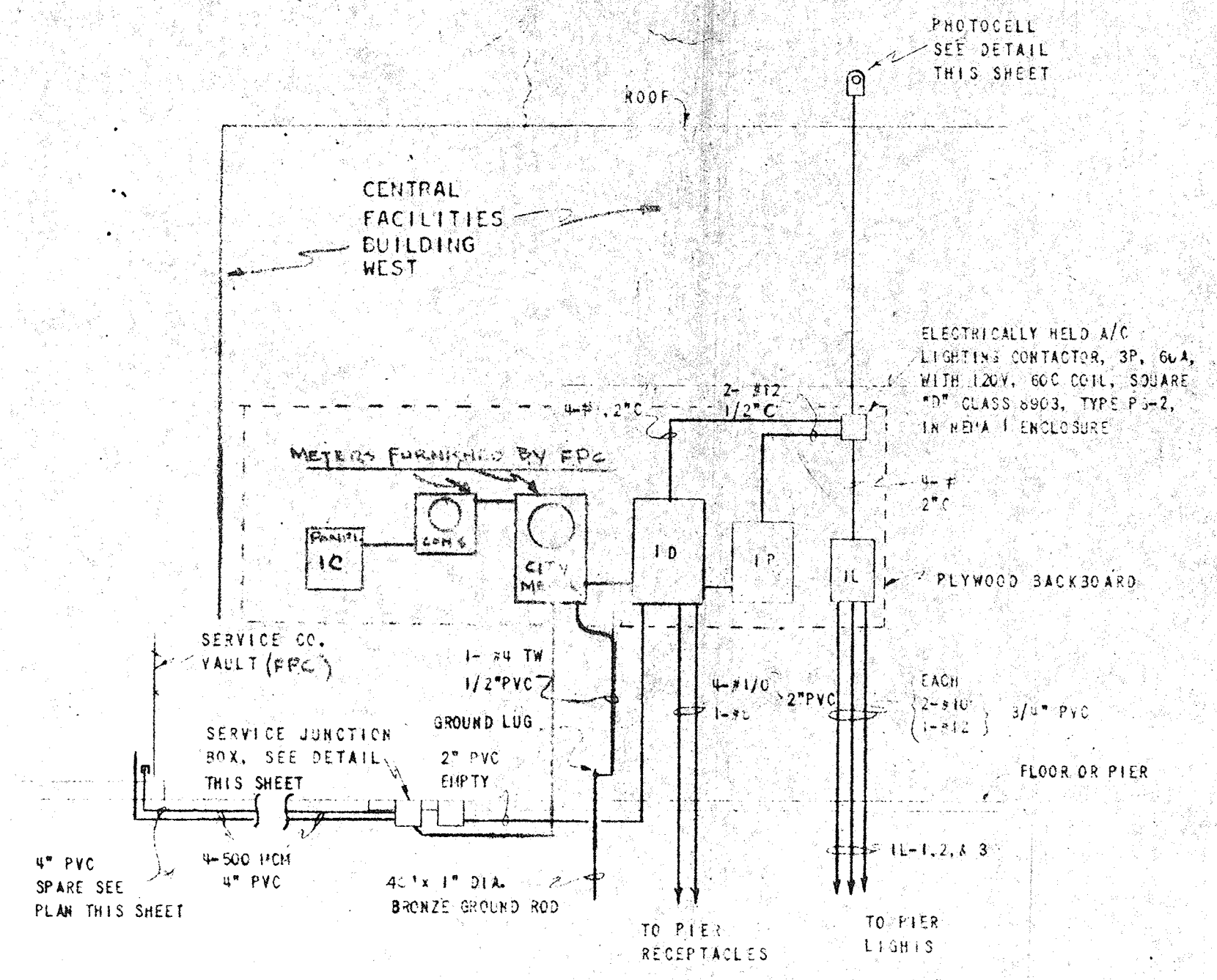
DATE	DESIGNED	DRAWN	CHECKED	APPROVED	SCALE	AS SHOWN
APRIL, 1961	W/H	W/P	W/H	A.R.R.		

JOB NO. SF4506
FILE NO. SF4506-122
SHEET 22 OF 31

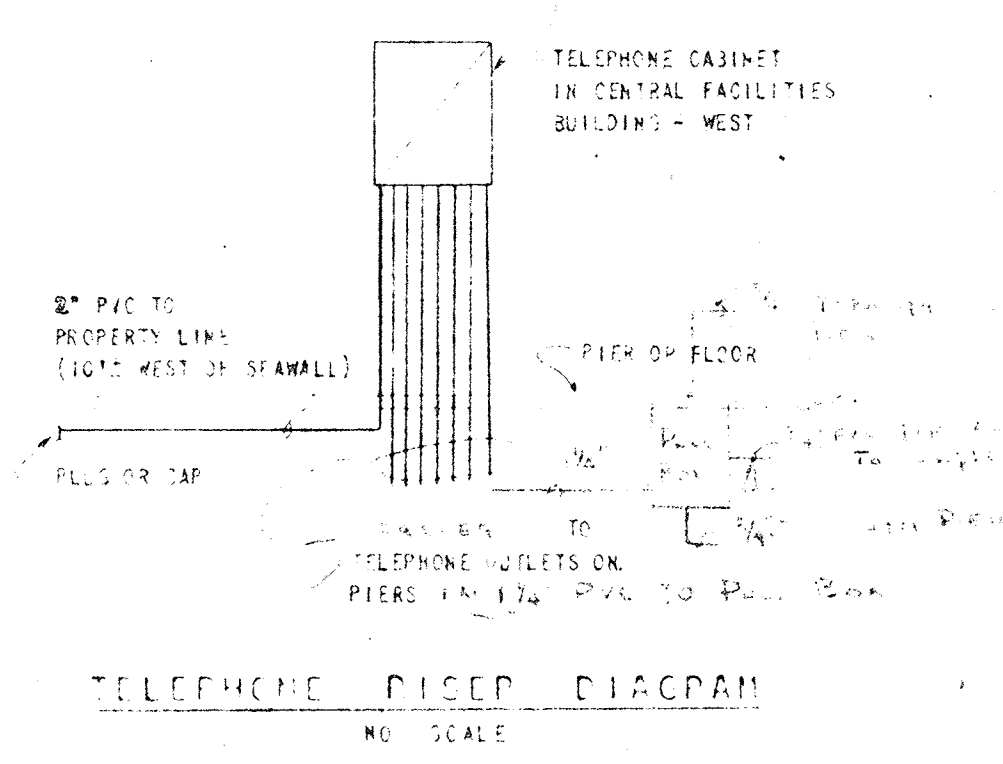
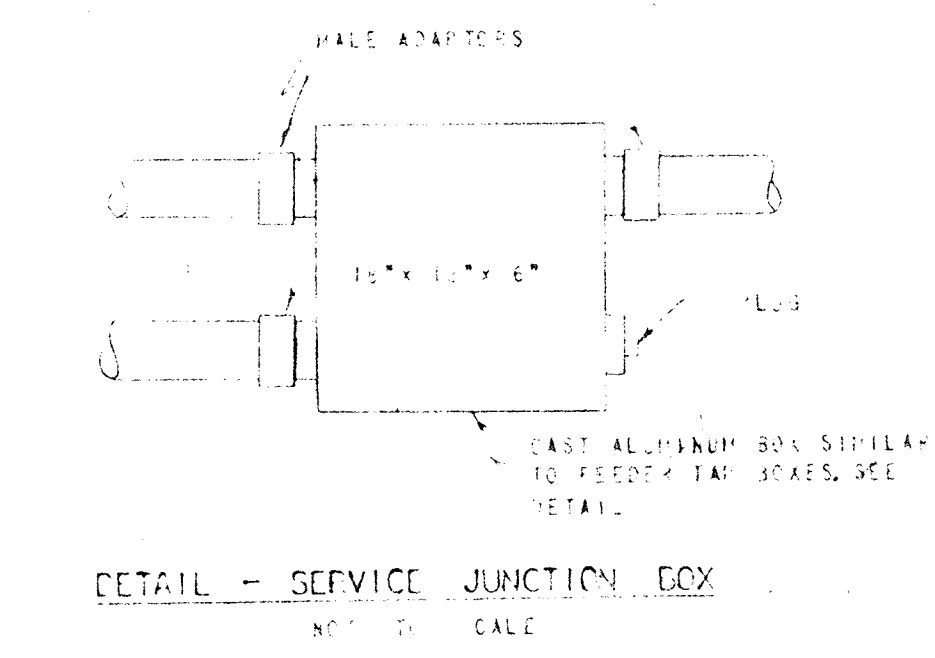
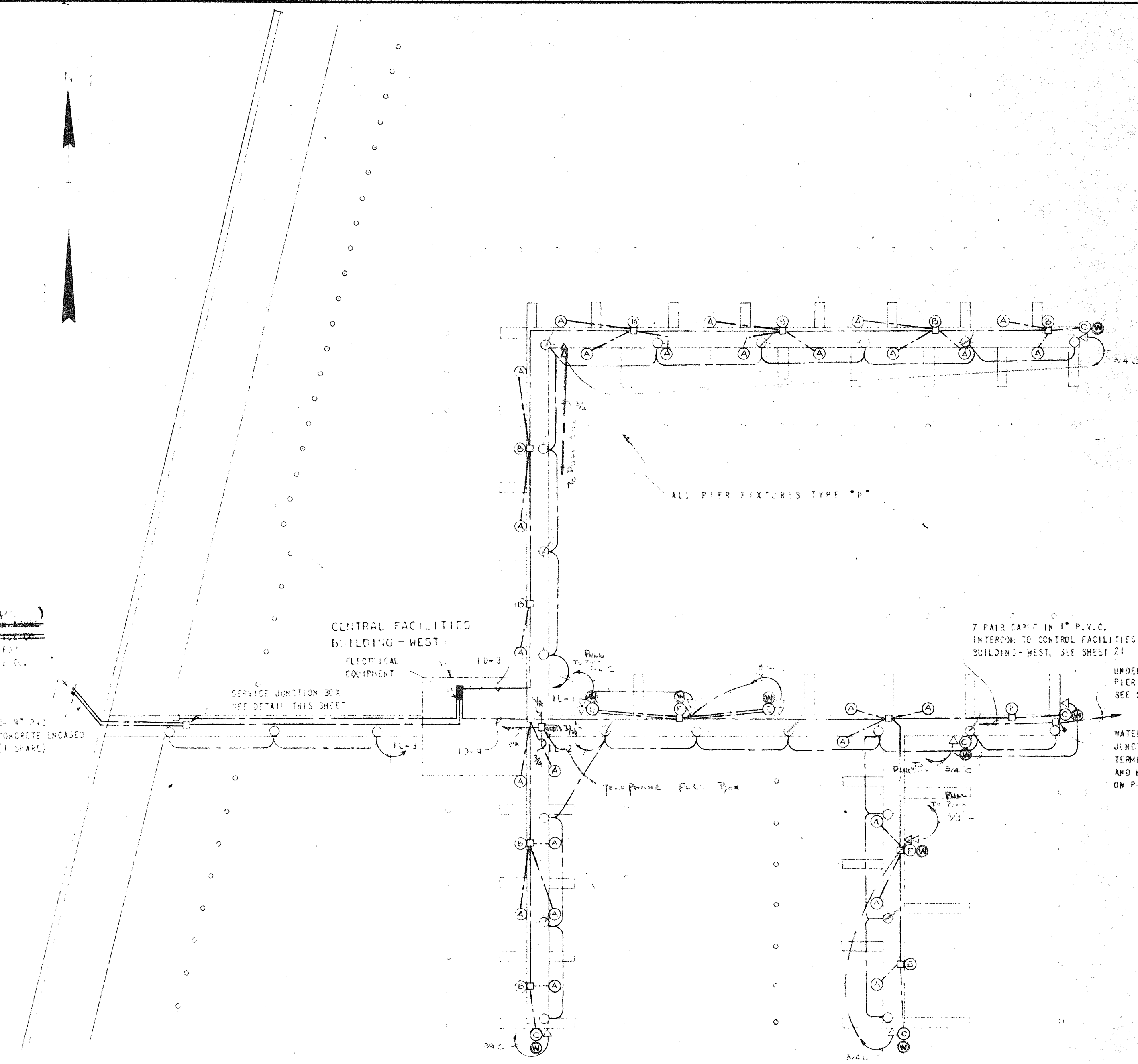
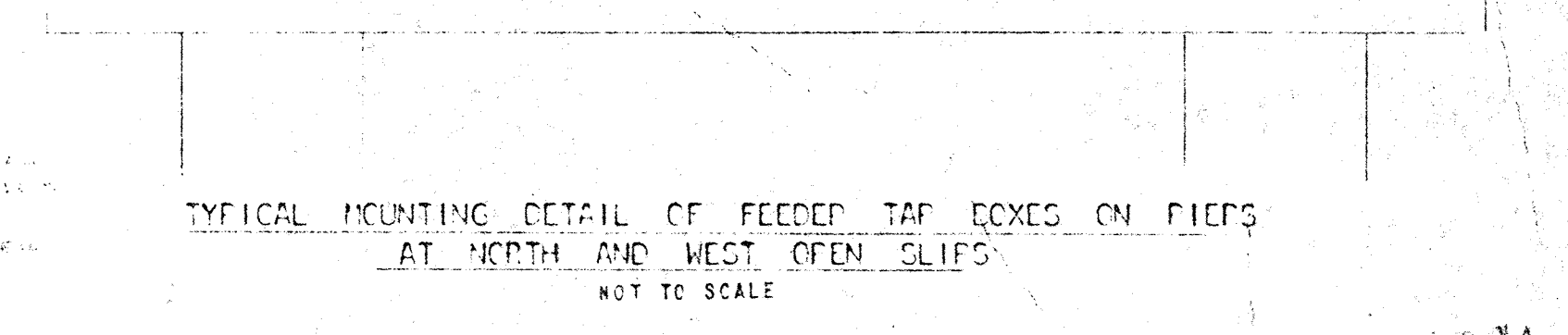
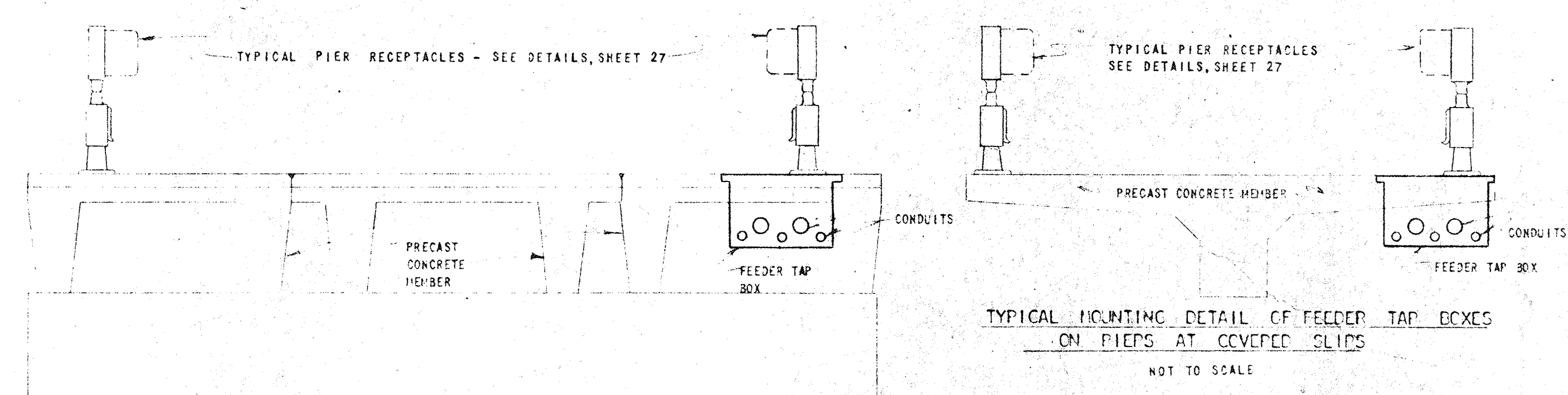
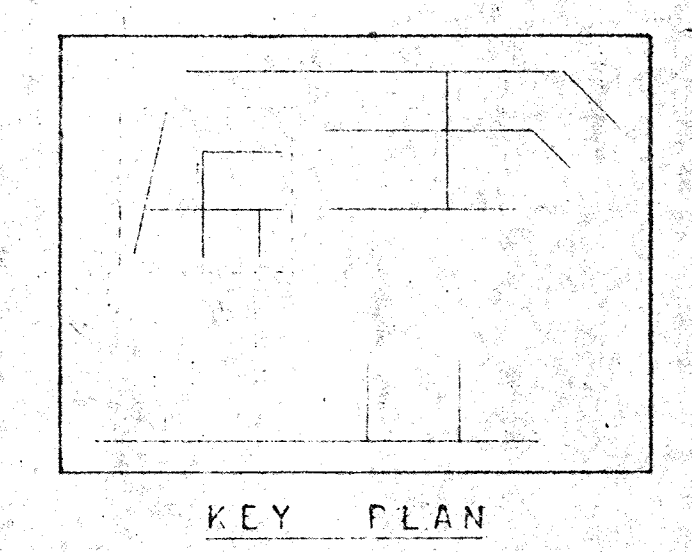
- NOTES:
1. ALL PVC CONDUITS TO BE SUPPORTED ON MAXIMUM 4 FT. CENTERS.
 2. ALL CONDUITS ON PIERS TO BE SUPPORTED WITH PVC MATERIALS FROM PLASTIC ANCHORS. DETAILS SHOWN ARE TYPICAL ONLY.



TYPICAL METHOD OF CONDUIT SUPPORTS ON PIERS
NOT TO SCALE



9 FEET



(W) - DENOTES REEPS WITHOUT METER SOCKETS, PLUG HERE

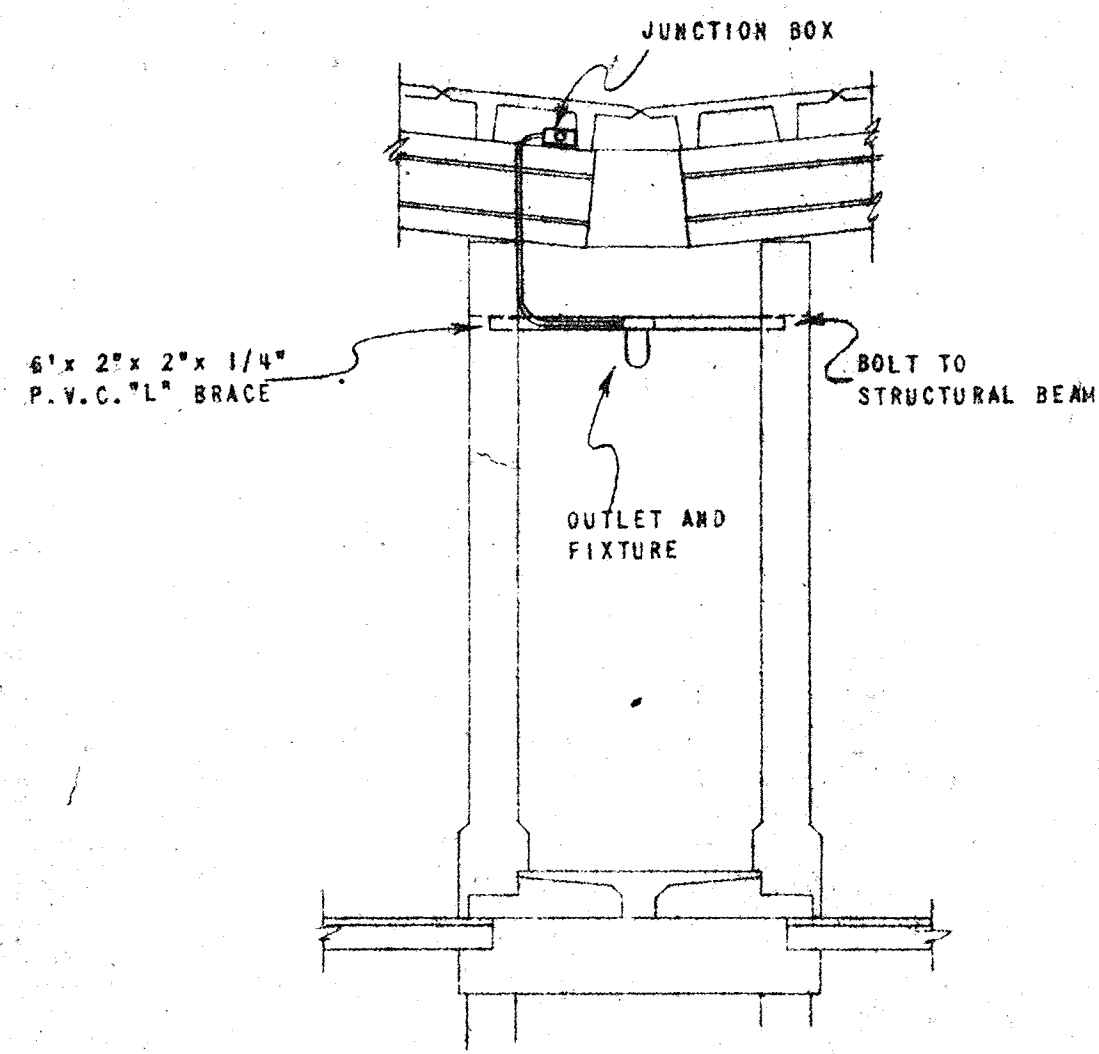
NO	DATE	DESCRIPTION	CHKD.	APPRD.
2	3-67	ADD TELEPHONE RISE FROM REEPS TO PIER		
3	4-67	REVISE PIER & RISER DIAGRAM		
4	4-67	DELETE METERED SLIDS		

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
PIERS
WEST WALL
ELECTRICAL

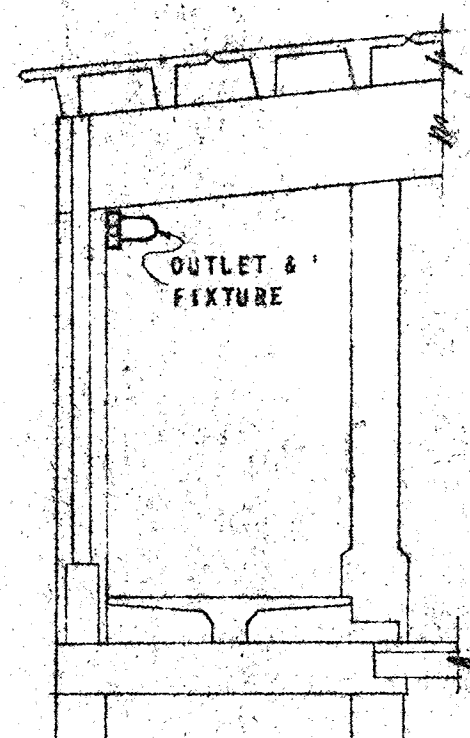
RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
MIAMI, FLORIDA

DATE: APRIL, 1967
DESIGNED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
APPROVED: A. K. R.
SCALE: AS SHOWN
JOB NO.: [Signature]
FILE NO.: [Signature]

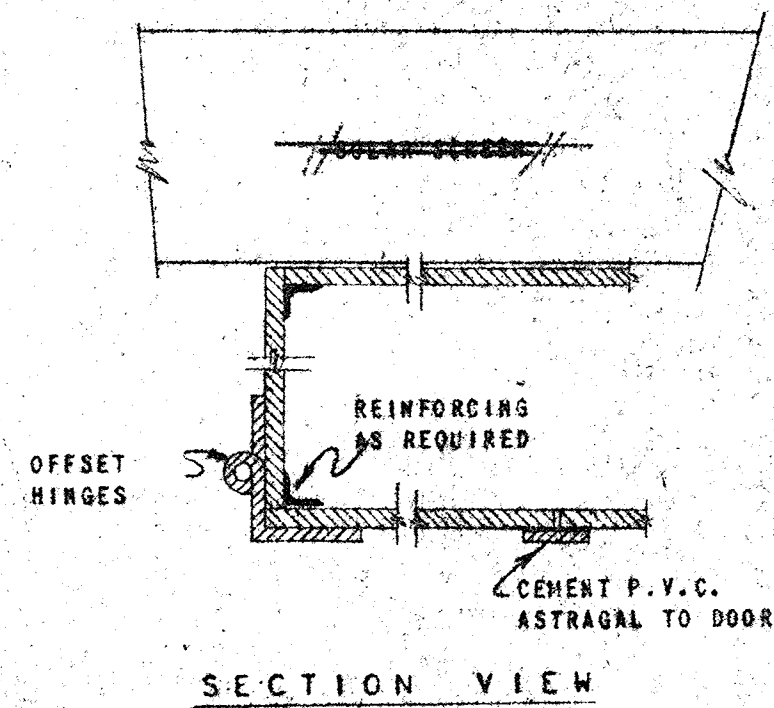
REGISTERED ENGINEER NO. 3290 STATE OF FLORIDA



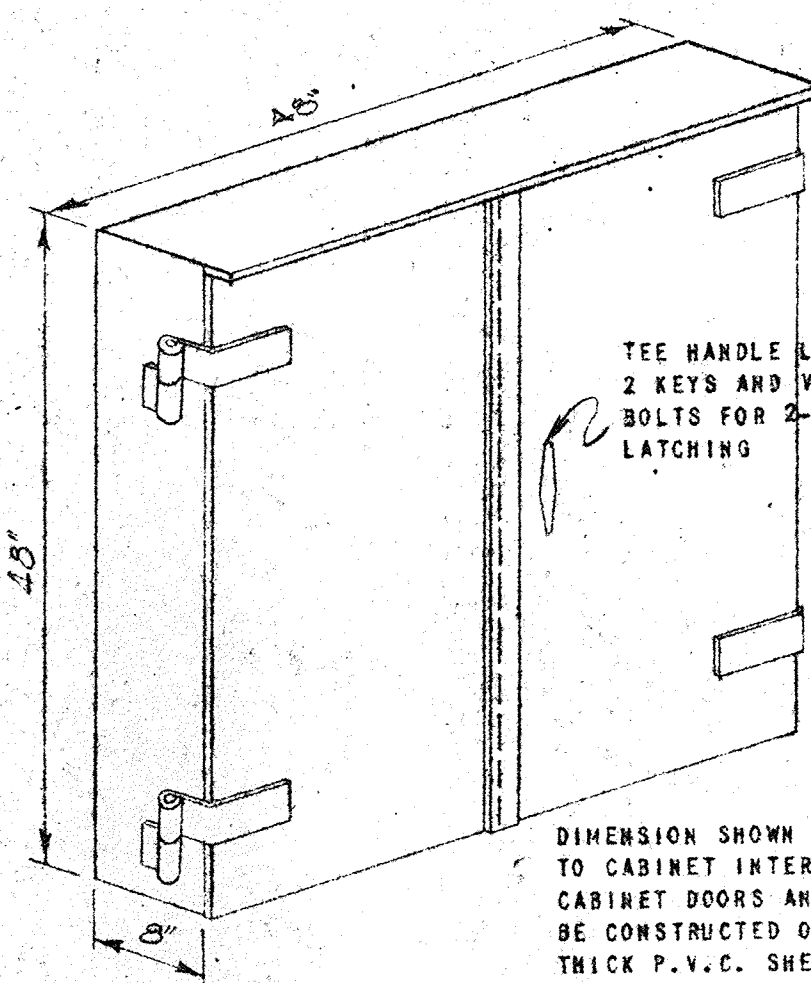
SECTION A-A
FIXTURE TYPE "G" MOUNTING NO. 1
NOT TO SCALE



SECTION B-B
FIXTURE TYPE "G" MOUNTING NO. 2
NOT TO SCALE



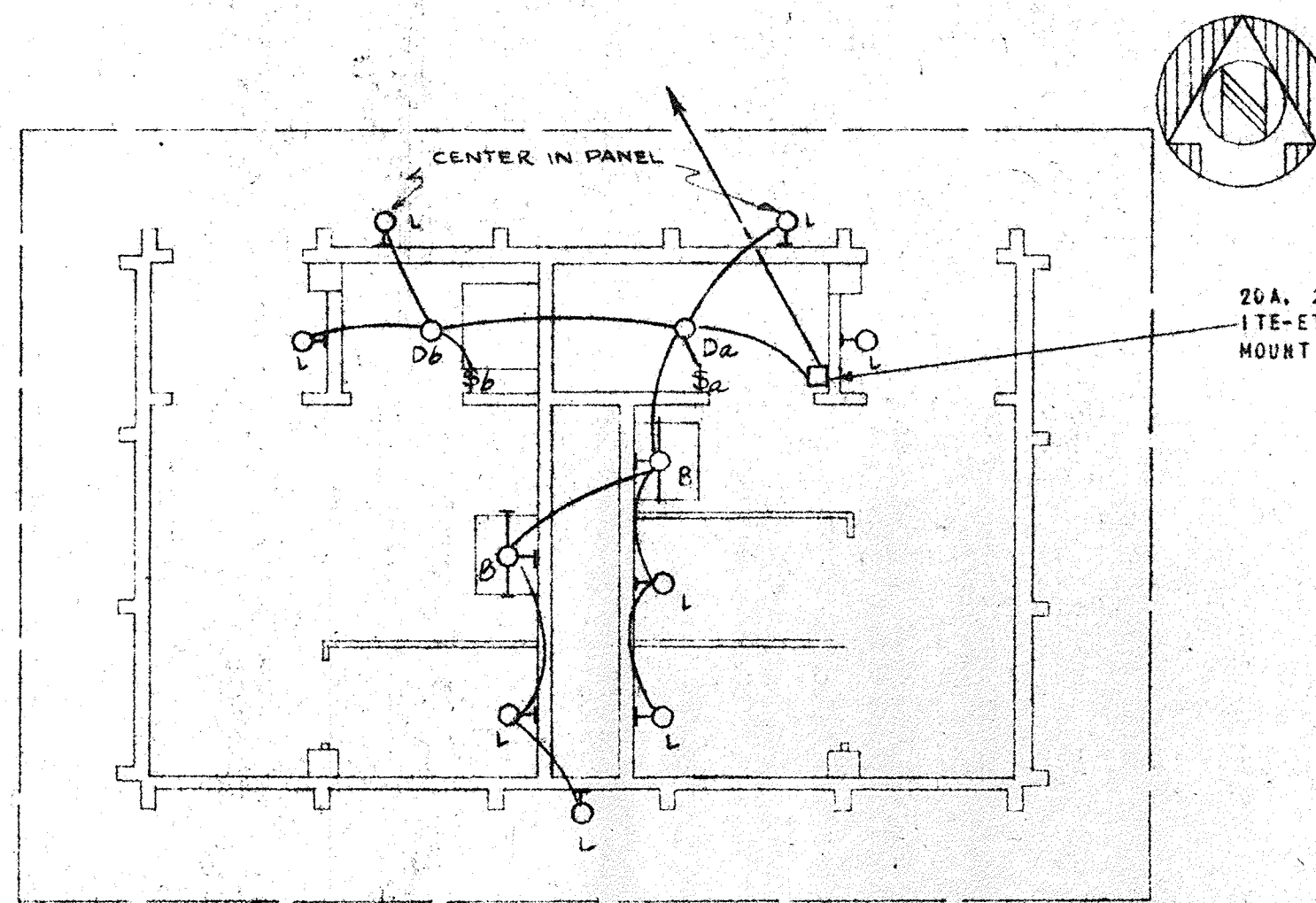
SECTION VIEW



TEE HANDLE LOCK WITH 2 KEYS AND VERTICAL BOLTS FOR 2-POINT LATCHING

DIMENSION SHOWN REFER TO CABINET INTERIOR. CABINET DOORS AND HINGES TO BE CONSTRUCTED OF MIN. 1/4" THICK P.V.C. SHEET MATERIAL WITH P.V.C. REINFORCING AS REQUIRED. MOUNT ON 3" G.I. PIPE STANCHIONS.

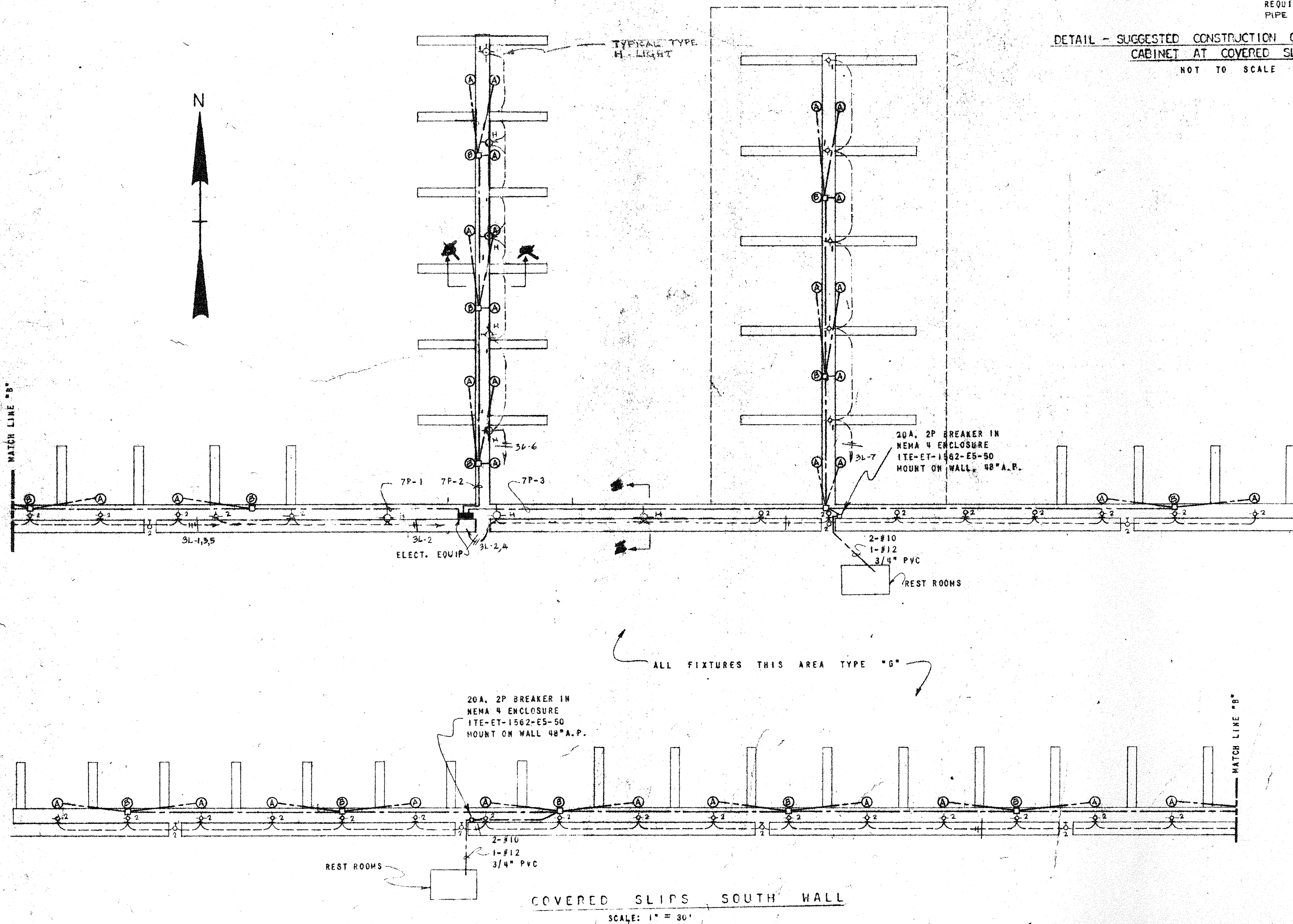
DETAIL - SUGGESTED CONSTRUCTION OF EQUIPMENT CABINET AT COVERED SLIPS
NOT TO SCALE



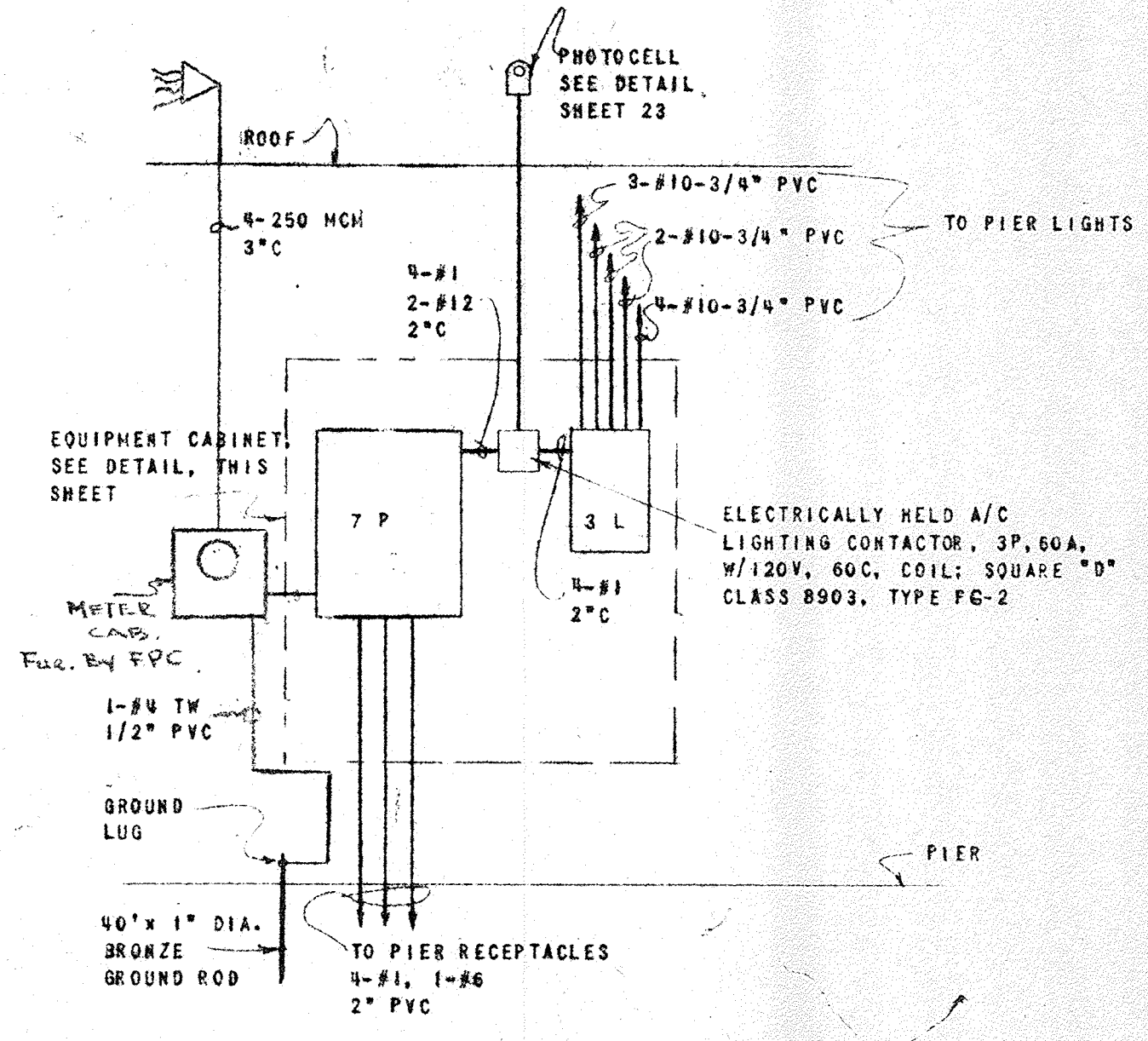
TYPICAL - REST ROOM PLAN
SCALE: 1/4" = 1'-0"

PANEL "3L" COVERED SLIPS SOUTH WALL													
CIR.	USE	VA	POLES	FRAME	TRIP	WIRE&COND.	CIR.	USE	VA	POLES	FRAME	TRIP	WIRE&COND.
1	LIGHTING - WEST	600	1	50	20	SEE RISER	2	LIGHTING - E. & W.	675	1	50	20	SEE RISER
3	LIGHTING - WEST	600	1	50	20	SEE RISER	4	LIGHTING - EAST	675	1	50	20	SEE RISER
5	LIGHTING - WEST	600	1	50	20	SEE RISER	6	LIGHTING - NORTH	450	1	50	20	SEE RISER
7	LIGHTING - NORTH	375	1	50	20	SEE RISER	8	SPARE	600	1	50	20	-
9	SPARE	600	1	50	20	-	10	SPARE	600	1	50	20	-
11	SPARE	600	1	50	20	-	12	SPARE	600	1	50	20	-

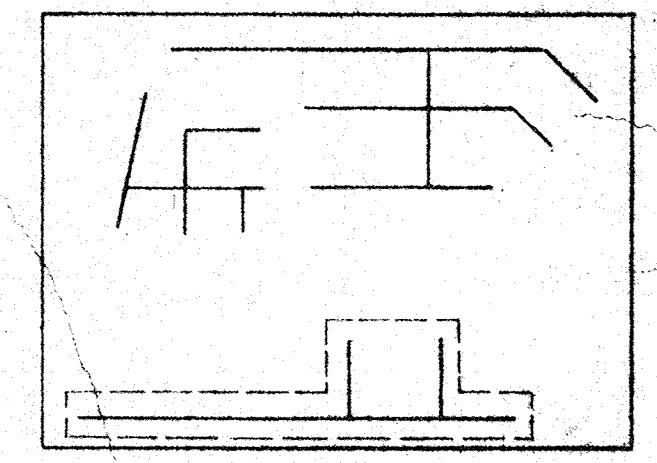
PANEL "7P" COVERED SLIPS SOUTH WALL													
CIR.	USE	VA	POLES	FRAME	TRIP	WIRE & COND.	CIR.	USE	VA	POLES	FRAME	TRIP	WIRE & COND.
1	PIER REC. - WEST	10800	3	100	90	SEE RISER	2	PIER REC. - NORTH	6000	3	100	90	SEE RISER
3	PIER REC. - EAST	7300	3	100	90	SEE RISER	4	PANEL "3L"	6975	3	100	90	SEE RISER
5	SPARE	10000	3	100	90	-	6	SPARE	-	3	100	90	-
7	CONTACTOR COIL	100	1	50	20	SEE RISER	8	SPARE	600	1	50	20	-
9	SPARE	-	3	100	90	-	10	SPACE	-	3	100	-	-



COVERED SLIPS SOUTH WALL
SCALE: 1" = 30'



ELECTRICAL RISER DIAGRAM
NO SCALE



KEY PLAN

NO.	DATE	DESCRIPTION	CHK'D.	APP'D.
3	6-62	ADD TYPE H FIXTURES	WAT	
2	5-62	CHANGE PIER LIGHTING	DAT	
1	4-62	ADD METER	DAT	

REVISIONS

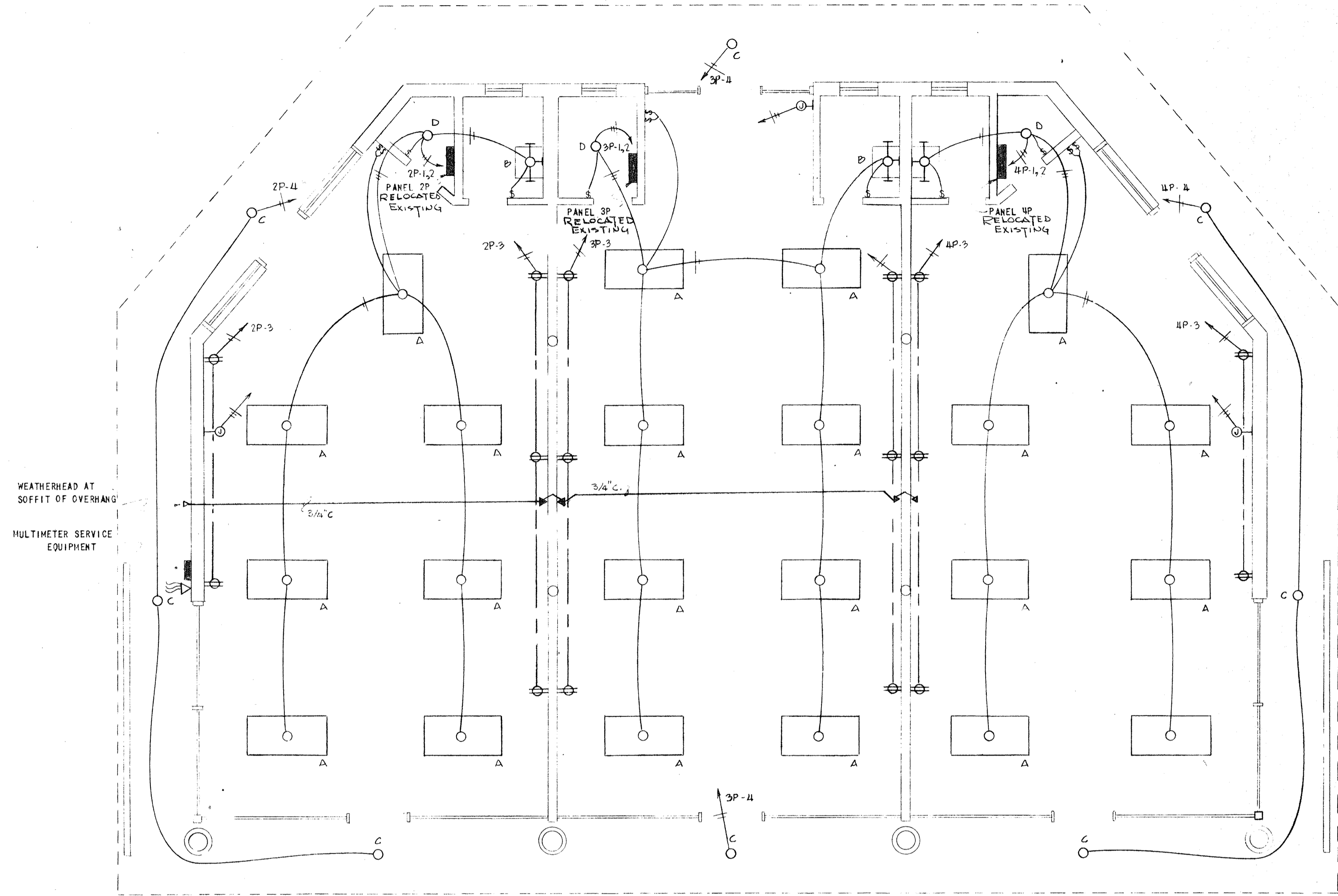
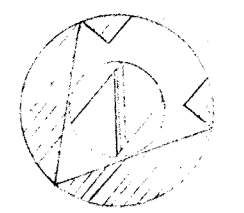
CITY OF ST. PETERSBURG
FLORIDA

CENTRAL YACHT BASIN MARINA
COVERED SLIPS
SOUTH WALL AND REST ROOMS
ELECTRICAL

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
MIAMI, FLORIDA

DATE: APRIL, 1961
DESIGNED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]
SCALE: AS SHOWN
JOB NO: SP 4506
FILE NO: SP4506-124

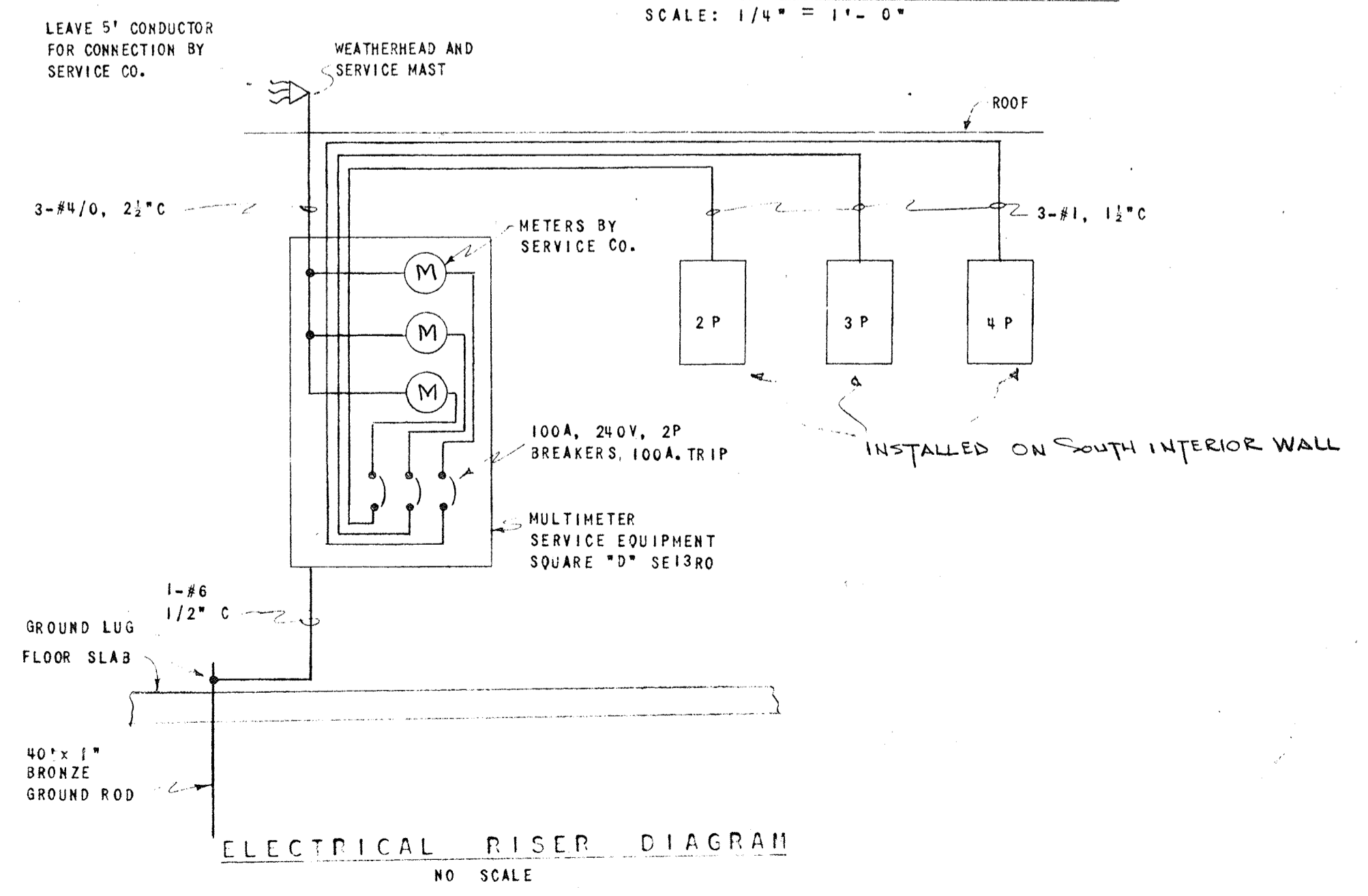
REGISTERED ENGINEER NO. 3250 STATE OF FLORIDA



PANELS 2P, 4P, YACHT BROKERS OFFICES						
CIR.	USE	VA	POLES	FRAME	TRIP	WIRE COND.
1	OFFICE LIGHTING	800	1	50	20	2-#12 3/4"
2	OFF. TOIL. CLO. LTG.	800	1	50	20	2-#12 3/4"
3	RECEPTS. OFFICE	900	1	50	20	2-#12 3/4"
4	EXT. LIGHTING	300	1	50	20	2-#12 3/4"
5	A/C OUTLET	1200	2	50	30	3-#12 3/4"
6	SPARE	600	1	50	20	-
7	SPARE	600	1	50	20	-

PANEL 3 P YACHT BROKERS OFFICE						
CIR.	USE	VA	POLES	FRAME	TRIP	WIRE COND.
1	OFFICE LIGHTING	900	1	50	20	2-#12 3/4"
2	OFF. TOIL. CLO. LTG.	900	1	50	20	2-#12 3/4"
3	RECEPTS. OFFICE	1080	1	50	20	2-#12 3/4"
4	EXT. LTG.	200	1	50	20	2-#12 3/4"
5	A/C OUTLET	1200	2	50	30	3-#12 3/4"
6	SPARE	600	1	50	20	-
7	SPARE	600	1	50	20	-

YACHT BROKER OFFICES
SCALE: 1/4" = 1'-0"



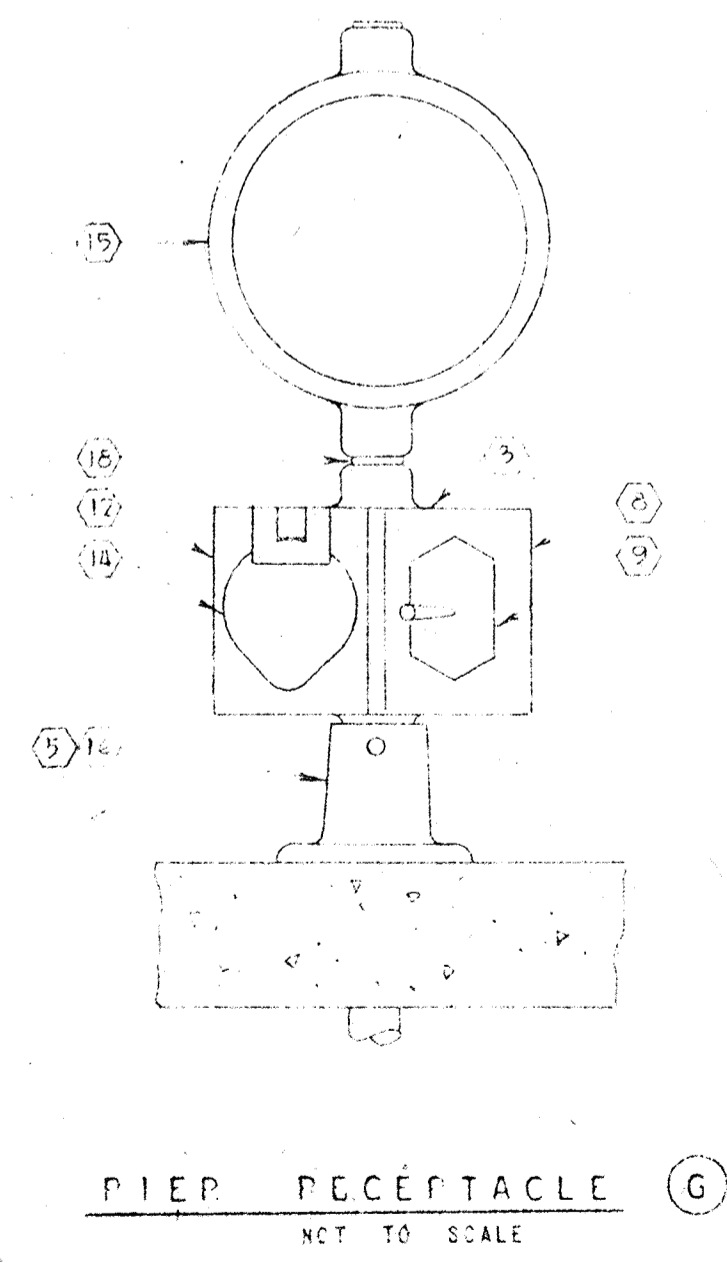
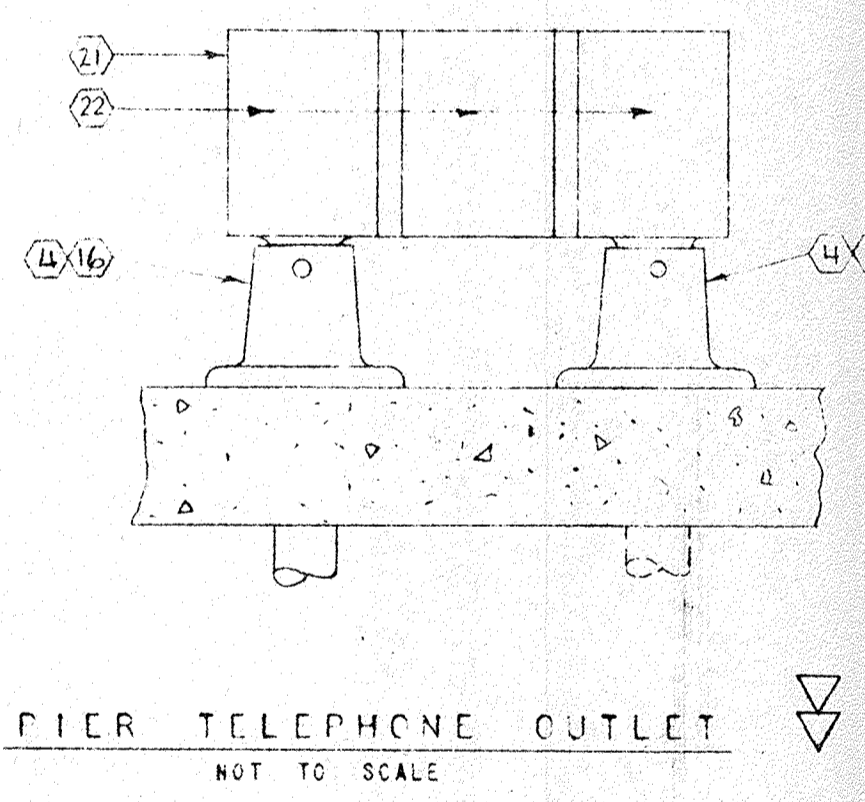
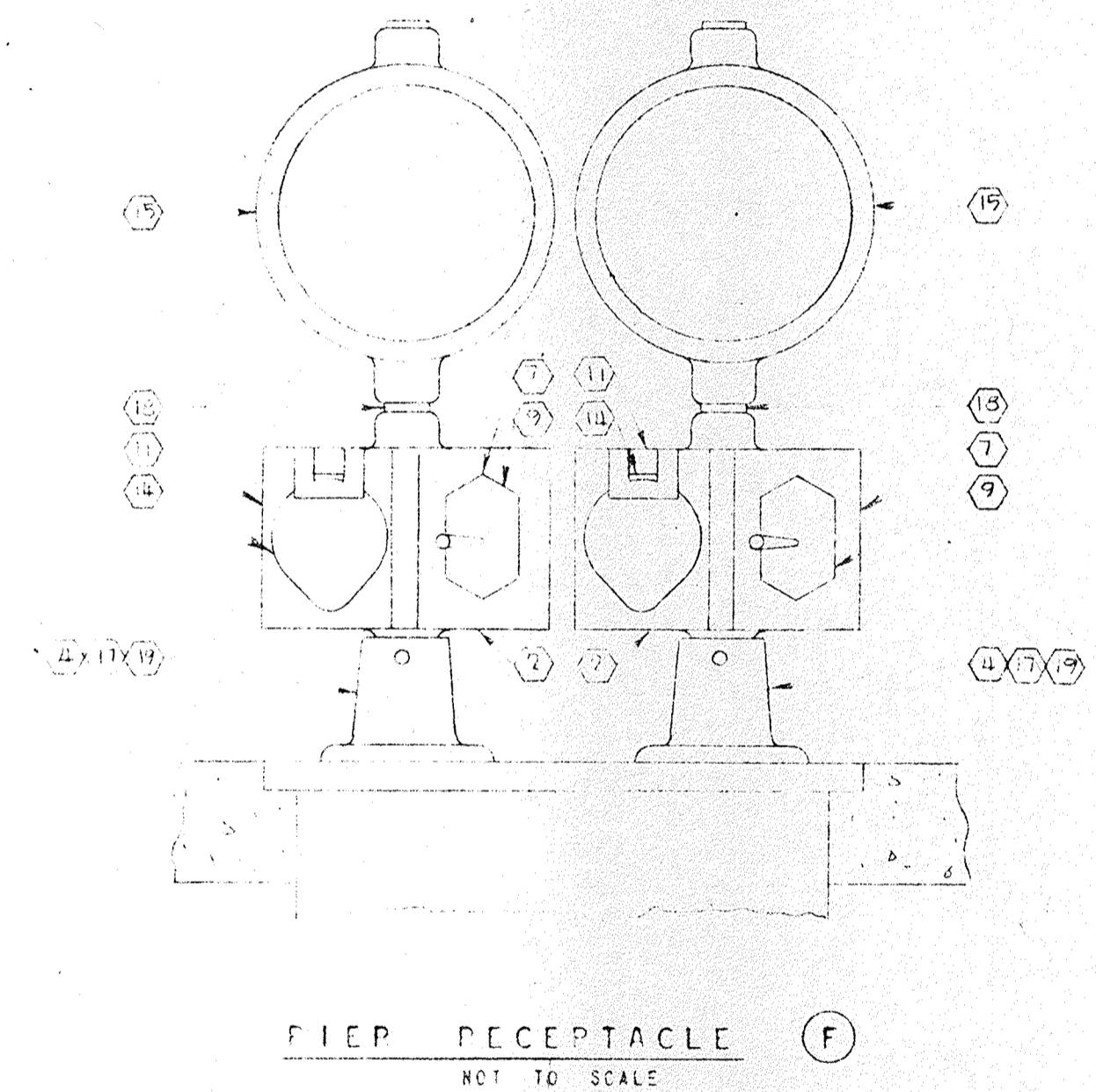
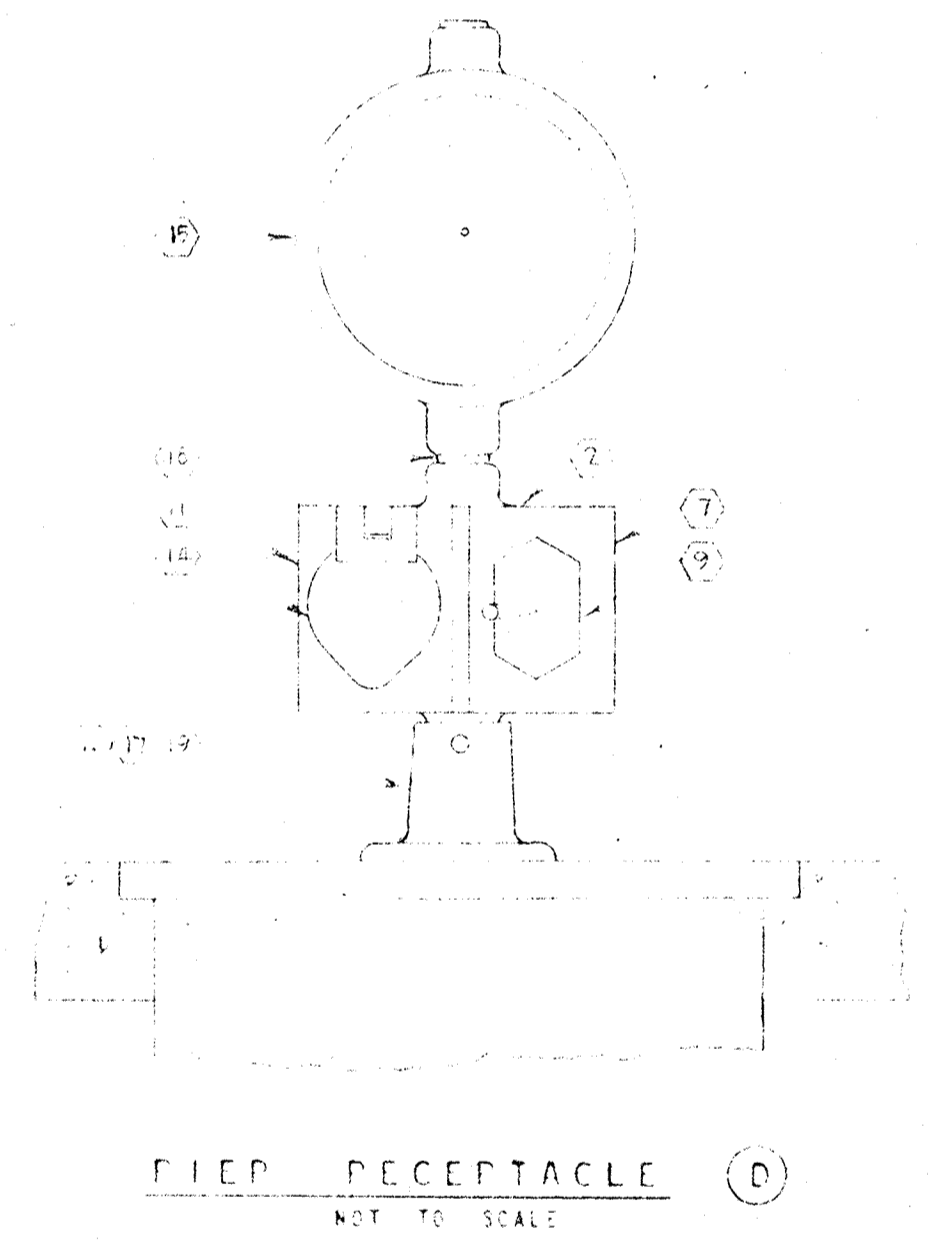
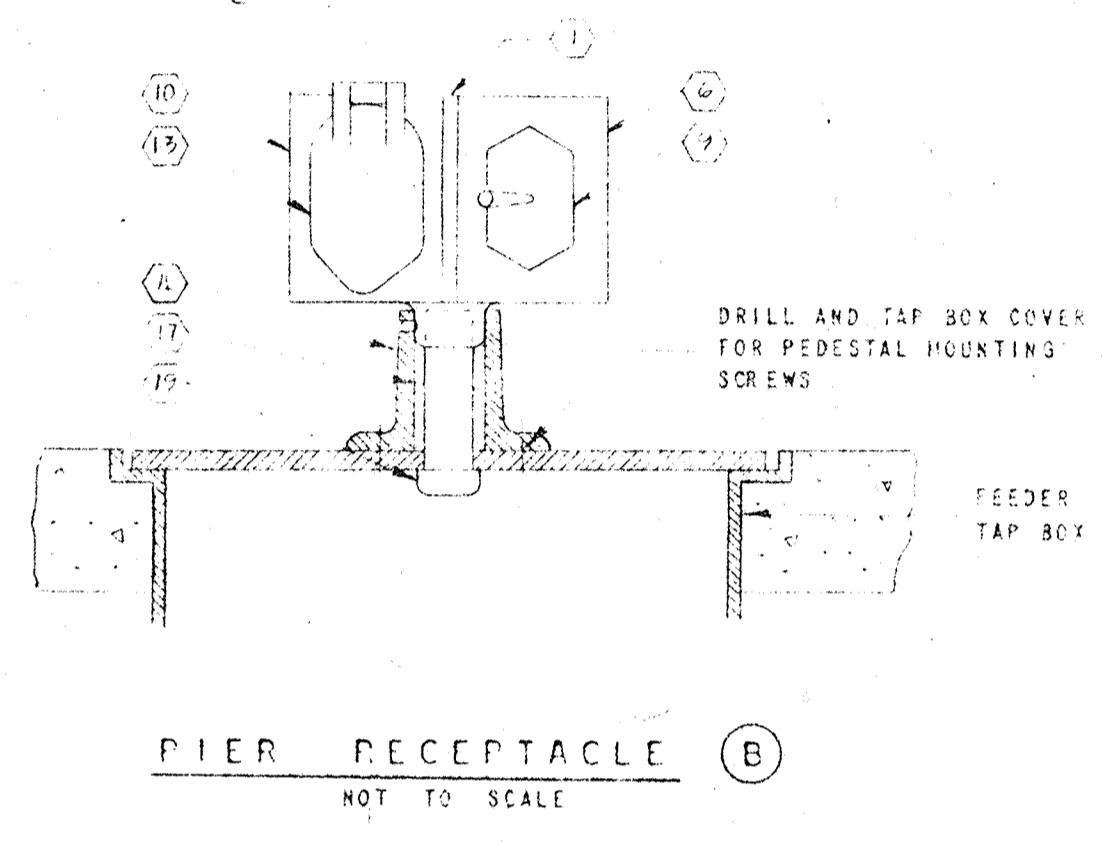
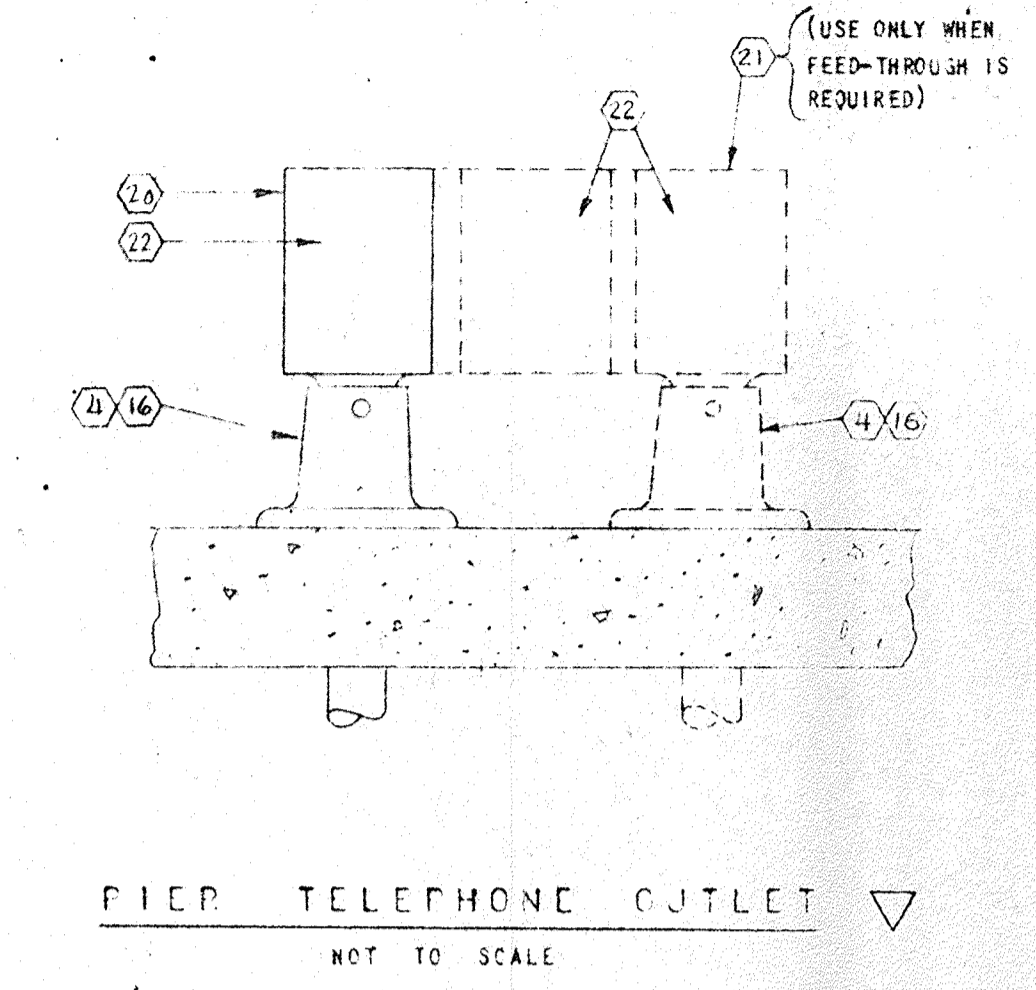
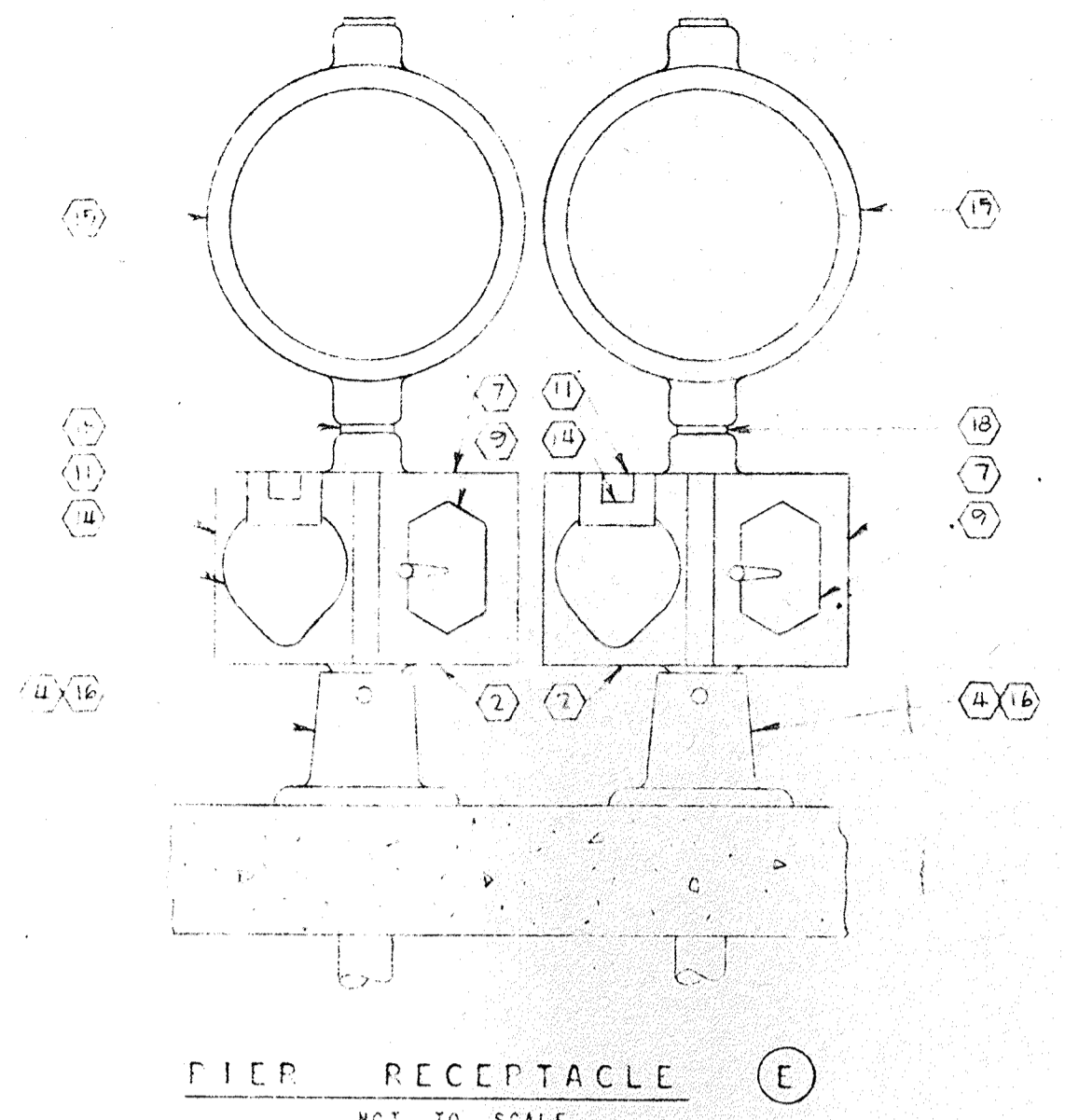
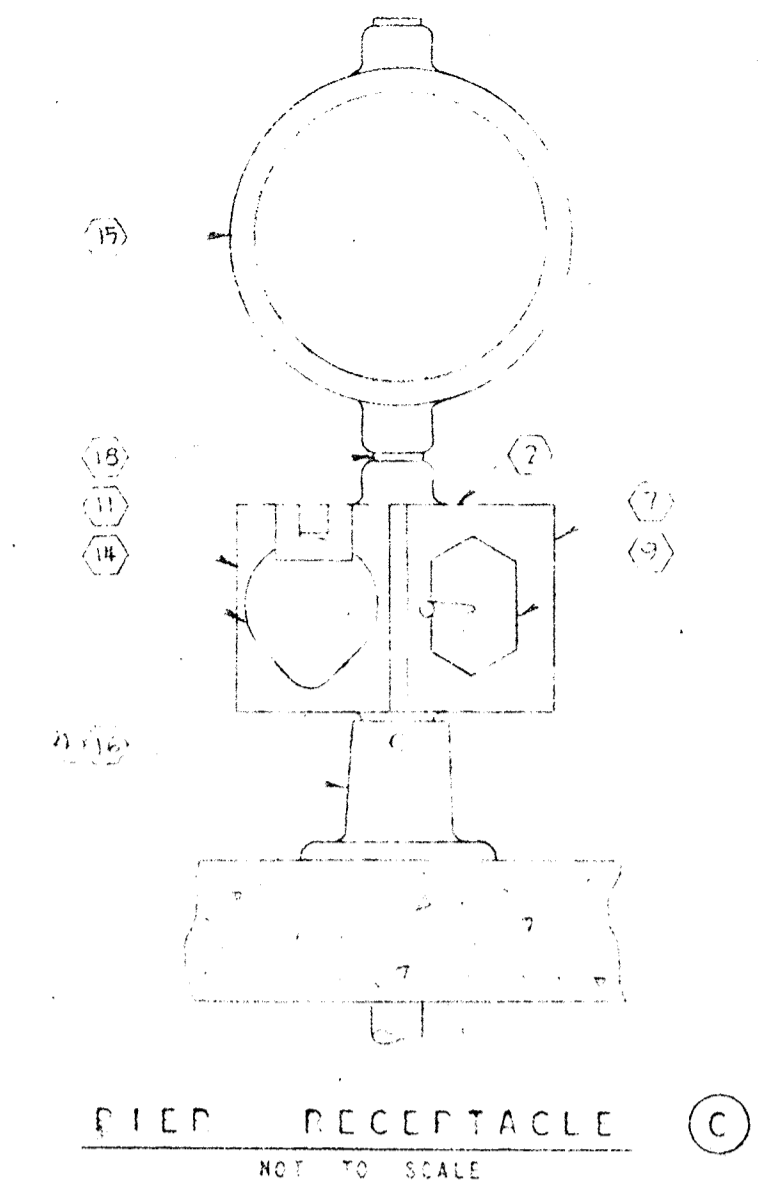
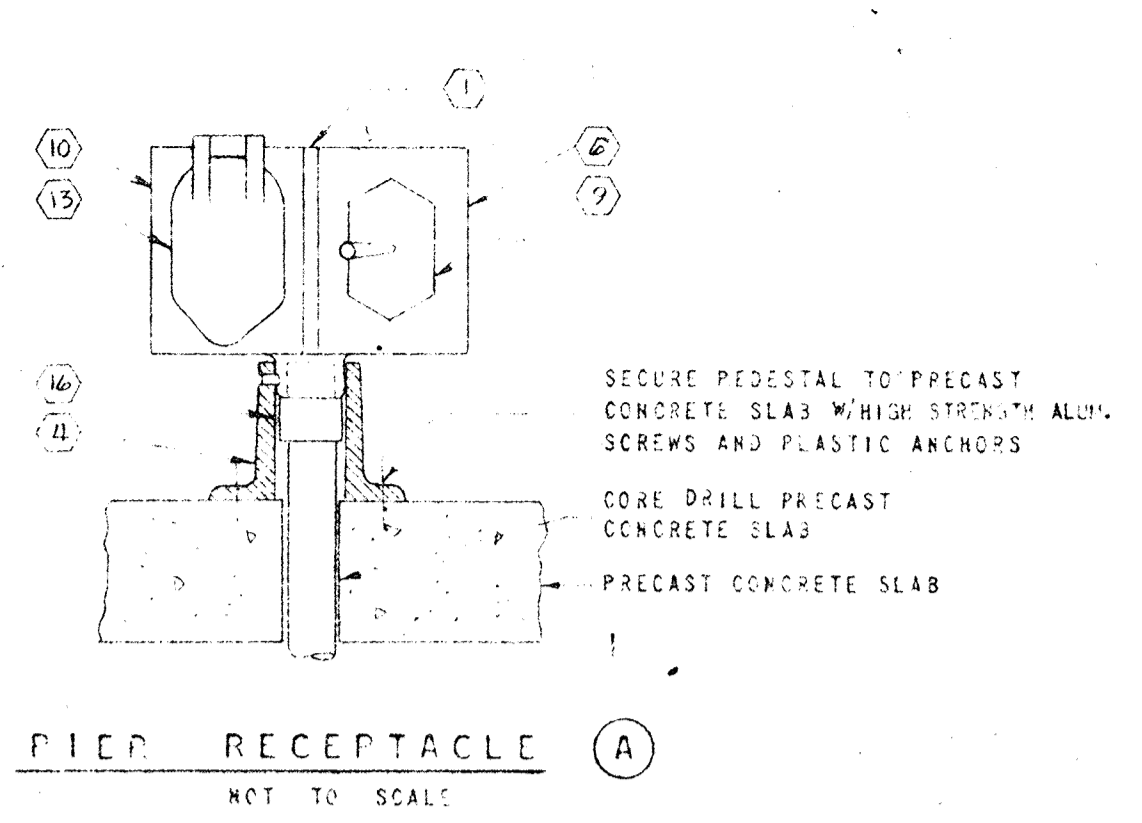
NO.	DATE	DESCRIPTION	CHKD.	APPRD.
2	2-6-61	ISSUED FOR CONSTRUCTION OF ALL INTERIOR ELECTRICAL.	DAT	
1	6-61	RELOCATE PANELS ON SOUTH WALL	DAT	
1	6-61	DELETE INTERIOR FIXTURES	DAT	

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
YACHT BROKER OFFICES
ELECTRICAL

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
— MIAMI, FLORIDA —

APPROVED FOR RADER AND ASSOCIATES BY: *[Signature]*
REGISTERED ENGINEER NO. 3230 STATE OF FLORIDA

DATE DESIGNED	APRIL, 1961
DRAWN	W.H. HP
CHECKED	HP
APPROVED	W.H. A.E.R.
SCALE	AS SHOWN
JOB NO.	SP4506
FILE NO.	SP4506-126



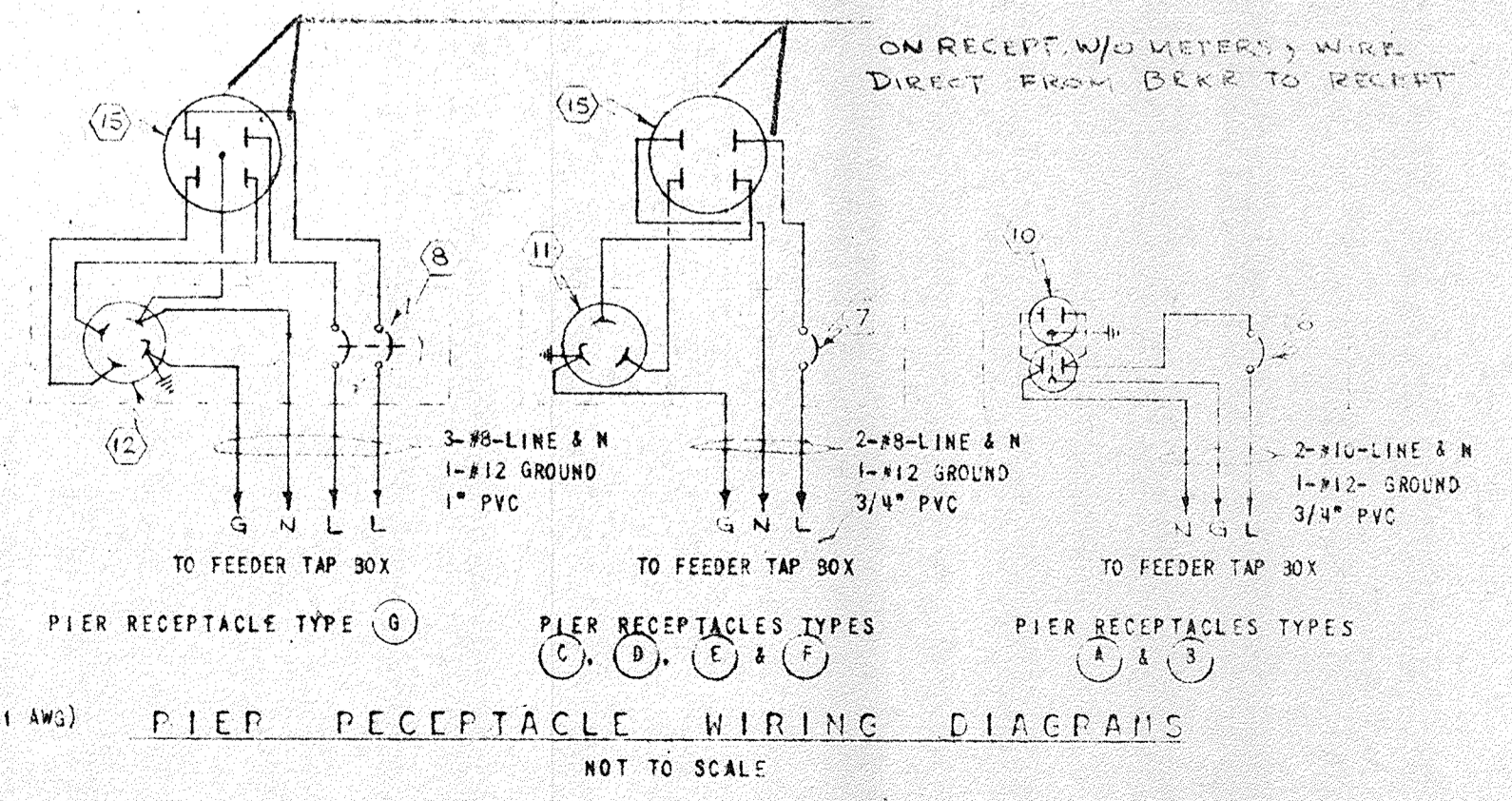
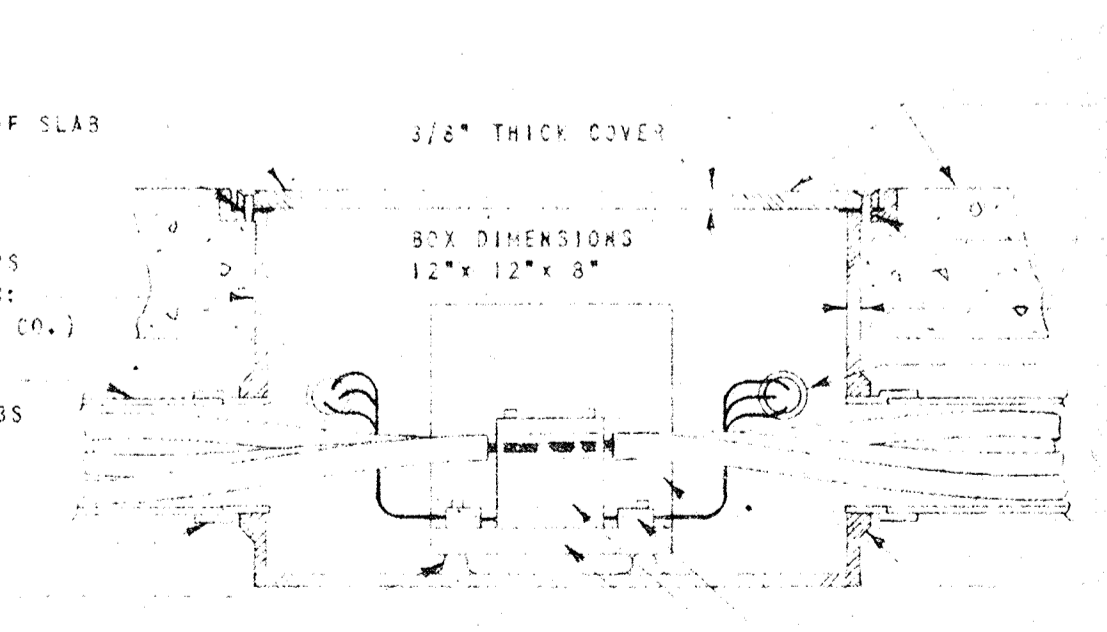
1. 2 GANG CONDUIT BOX, CROUSE-HINDS FD02-1-20-SA.
2. 2 GANG CONDUIT BOX, CROUSE-HINDS FD02-2-320-SA.
3. 2 GANG CONDUIT BOX, CROUSE-HINDS FD02-2-330-SA.
4. PEDESTAL, CROUSE-HINDS PED23 SA. EXCEPT W/ALLEN SET SCREWS.
5. PEDESTAL, CROUSE-HINDS PED 33 SA. EXCEPT W/ALLEN SET SCREWS.
6. CIRCUIT BREAKER, 120V, 1P, 50A, FRAME, 20A, TRIP, 1TE-TYPE ETM, WITH MOUNTING STRAP.
7. CIRCUIT BREAKER, 120V, 1P, 50A, FRAME, 40A, TRIP, 1TE-TYPE ETM, WITH MOUNTING STRAP.
8. CIRCUIT BREAKER, 208V, 2P, 100A, FRAME, 100A, TRIP, 1TE-TYPE ETM, WITH MOUNTING STRAP.
9. BREAKER COVER, CROUSE-HINDS ~~FD02-1-20-SA~~.
10. RECEPTACLE, DUPLEX, 15A, 120V, 3 WIRE GROUNDING, HUBBELL 52CM62, W/MATCHING CAP NO. 52CM67.
11. RECEPTACLE, 50A, 120V, 3 WIRE GROUNDING, HUBBELL 7381, W/MATCHING CAP NO. 7763, AND RUBBER COVER 7769.
12. RECEPTACLE, 50A, 208V, 4 WIRE GROUNDING, HUBBELL ~~7381~~, W/MATCHING CAP ~~NO. 7763~~ AND RUBBER COVER ~~7769~~.
13. RECEPTACLE COVER, HUBBELL 52CM21.
14. RECEPTACLE COVER, HUBBELL 7770.
15. METER SOCKET, WESTINGHOUSE TYPE S WITH:
1- SEALING PLUG, 1- GLASS COVER PLATE, 2 SOCKET JUMPERS AND 1- RACHET TYPE SEALING RING. CONTRACTOR SHALL FURNISH TO OWNER A TOTAL OF FIVE WESTINGHOUSE TYPE D25 WATTHOUR METERS WITH FOUR DRUM (UNITY MULTIPLIER) CYCLOMETER REGISTER.
16. PVC MALE CONDUIT ADAPTER, SIZE AS REQUIRED.
17. 3/4" ALUMINUM NIPPLE.
18. 1" ALUMINUM NIPPLE.
19. INSULATED JUSHING, SIZE AS REQUIRED, 0-2 TYPE "B".
20. 1-GANG CONDUIT BOX, CROUSE-HINDS FD01-1-20-SA.
21. 3-GANG CONDUIT BOX, CROUSE-HINDS FD03-10-220-SA.
22. CAST COVER, CROUSE-HINDS DS1000-SA.

COLOR CODING OF FEEDER AND BRANCH CIRCUIT CONDUCTORS SERVING PIERES

- NEUTRAL - WHITE
- PHASE "A" - BLACK
- PHASE "B" - RED
- PHASE "C" - BLUE
- EQUIPMENT GROUND - GREEN

NOTES:

1. ALL CAST ALUMINUM FITTINGS SHALL BE MADE OF COPPER FREE ALUMINUM. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS COMPOUND.
2. RECEPTABLES C, E, G, AND TELEPHONE OUTLETS ARE TO BE MOUNTED SIMILAR TO RECEPTABLE A; ALL OTHERS TO BE MOUNTED SIMILAR TO RECEPTABLE B.



WHERE SHOWN ADJACENT TO PIER RECEPT. - DENOTES WITHOUT METER SOCKETS & HUBS ON BOXES TO BE PLUGGED.

CITY OF ST. PETERSBURG FLORIDA		DATE APR 11, 1961
CENTRAL YACHT BASIN MARINA PIER RECEPTACLE DETAILS ELECTRICAL		DESIGNED DRAWN CHECKED APPROVED SCALE
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS MIAMI, FLORIDA		AS SHOWN JOB NO. SF-4500 FILE NO. SP4500-127
APPROVED FOR RADER AND ASSOCIATES		REGISTERED ENGINEER NO. 9250 STATE OF FLORIDA

NOTE: ALL METAL ENCLOSURES SHALL BE GROUNDED BY A #12 TINNED COPPER WIRE CONNECTED FROM THE GROUNDING TERMINAL OF THE RECEPTACLE OR CONNECTION BLOCK TO THE BOTTOM WALL OF THE ENCLOSURE. CLAMP WIRE TO ENCLOSURE WITH A #8-32 ALLU. ROUND HEAD MACHINE SCREW AND FLAT WASHER IN A DRILLED AND TAPPED HOLE.

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
1		CHANGE @ 1.50 AMP ADD RECEPT. METER SYMBOL		

2ND AVE. N.

4" FROM CITY MAIN & METER

4" FROM CITY MAIN & METER



BUILDING "E" YACHT BROKER'S OFFICE

BUILDING "C" CENTRAL FACILITIES BUILDING

BUILDING "C" CENTRAL FACILITIES BUILDING

BUILDING "D" HARBOR MASTER'S OFFICE DELETE

1ST AVE. N.

BAYSHORE DRIVE

EXISTING PIER

CENTRAL AVE.

PROVIDE SUITABLE SUPPORTS FOR PIPING

FIRE EXTINGUISHERS ON THESE PIERS TO BE MOUNTED ON PIER LIGHTING STANDARDS SEE SHEET NO. 22

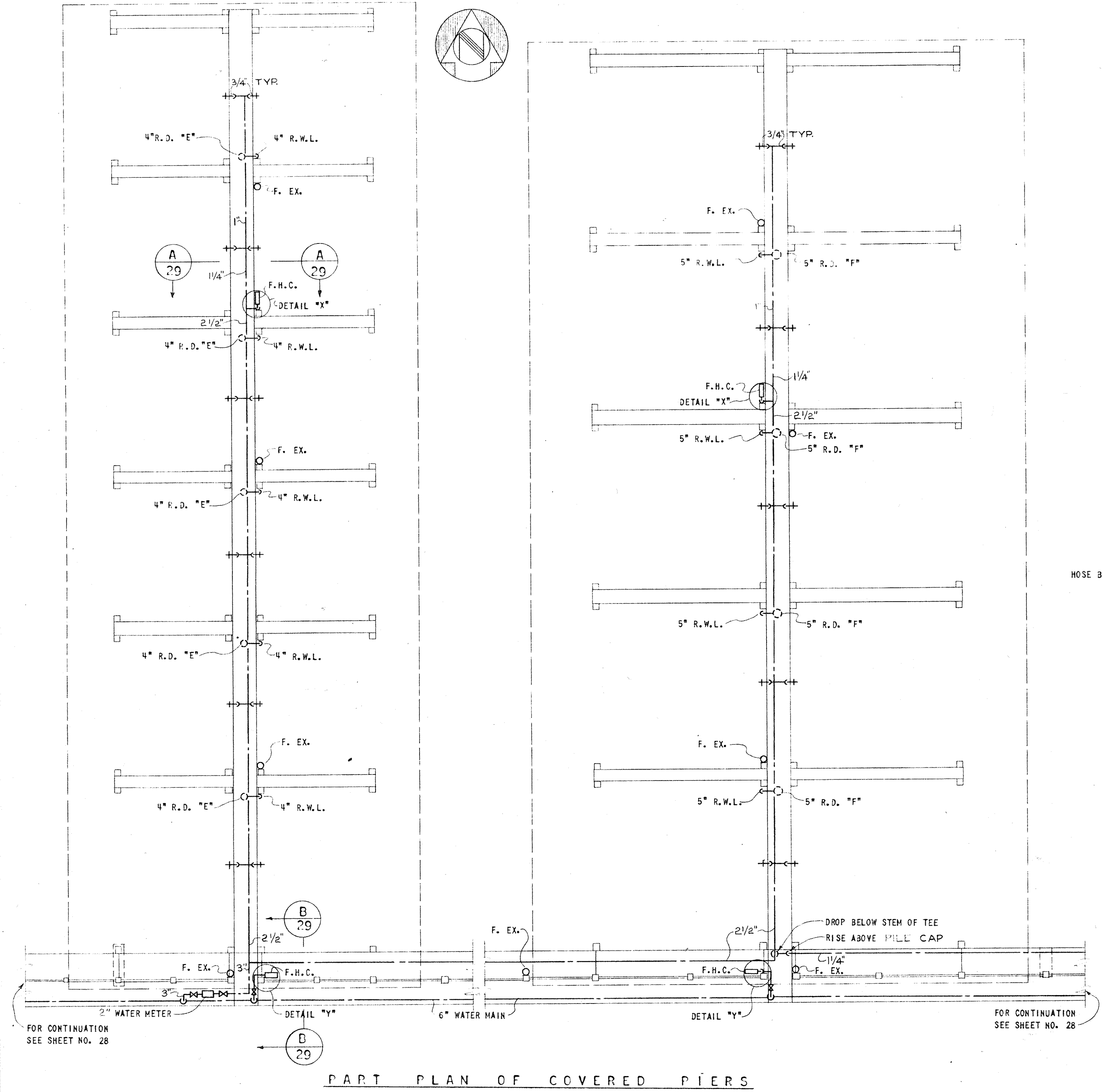
FOR PIPING ON THESE PIERS SEE SHEET NO. 29

GENERAL NOTES:

- ALL STUBS TO HOSE BIBBS - 3/4"
- ALL CONNECTIONS TO F.N.C.'S - 2"
- ALL INDIVIDUAL METERED CONNECTIONS - 3/4"
- FOR LEGEND SEE SHEET NO. 29.

NO.	DATE	DESCRIPTION	CHECKED	APPROVED
2	10-62	CHANGE WATER METER LOCATIONS		
1	6-62	DELETE 4" CI SOIL PIPE TO H.M. & PIPING, CHANGE E.L.V. ALL GAS RYCHTES		

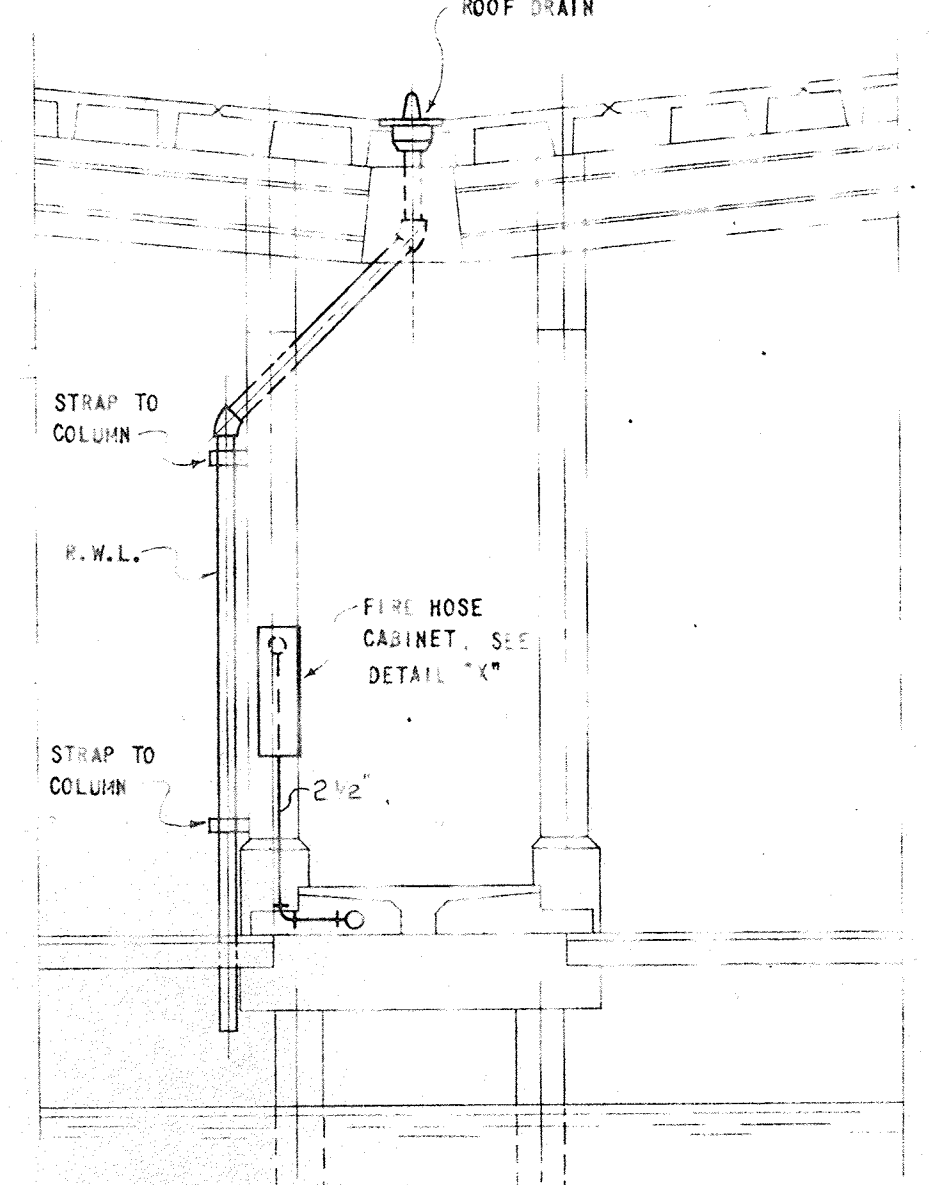
CITY OF ST. PETERSBURG FLORIDA		DATE APR 18, 1961
CENTRAL YACHT BASIN MARINA SITE PLAN		DESIGNED L.C.
MECHANICAL		DRAWN C.A.G.
RADER AND ASSOCIATES ENGINEERS AND ARCHITECTS MIAMI, FLORIDA		CHECKED L.H.L.
APPROVED FOR RADER AND ASSOCIATES		APPROVED L.F.N.
BY <i>[Signature]</i>		SCALE 1" = 50'
REGISTERED ENGINEERING NO. 3250 STATE OF FLORIDA		JOB NO. SP4506
		FILE NO. SP4506-128



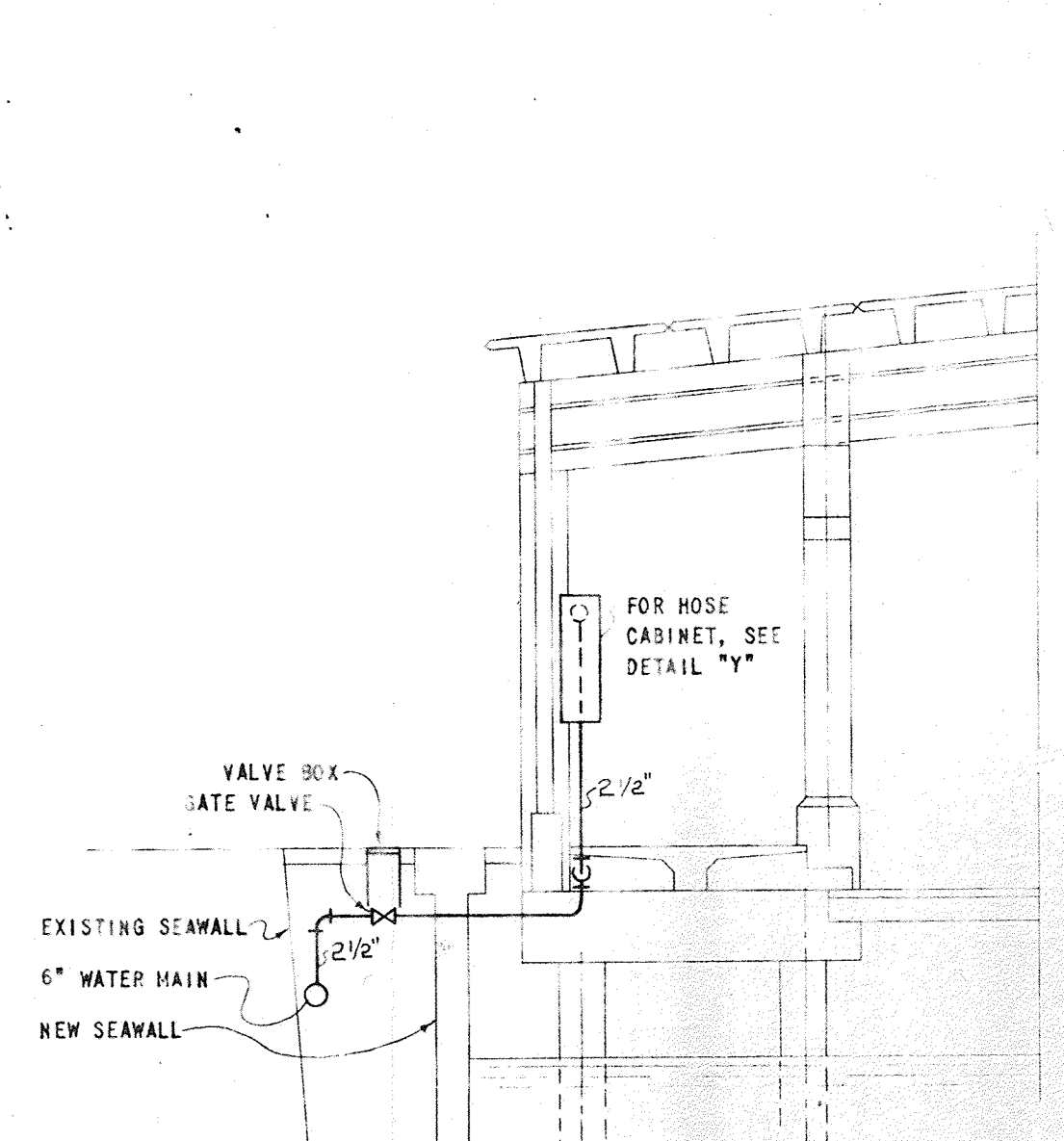
PART PLAN OF COVERED PIERS
SCALE: 1/16" = 1'-0"

LEGEND

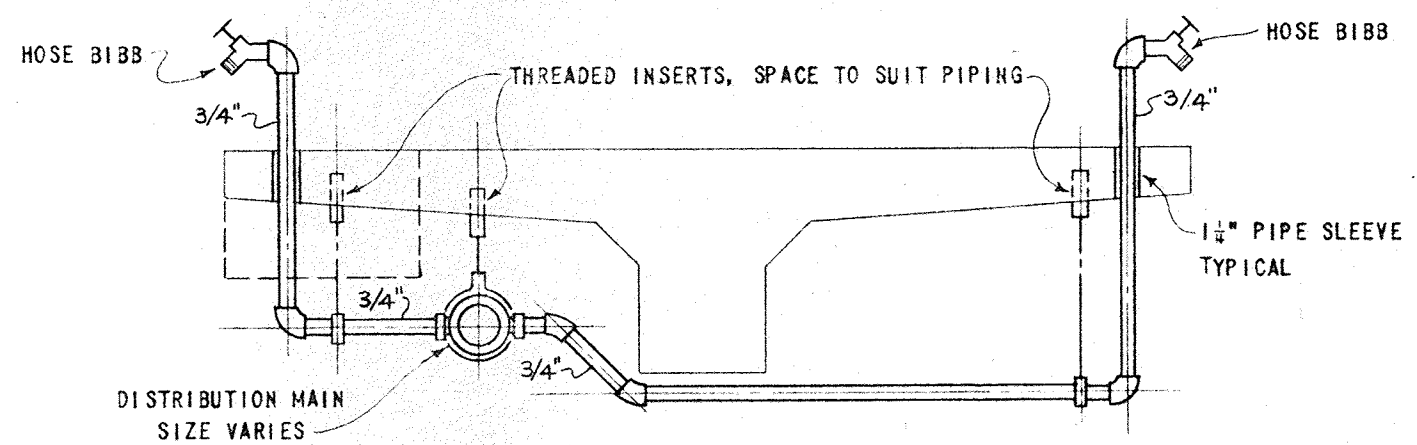
- SOIL PIPING
- WATER PIPING
- HOSE BIBB
- METERED HOSE BIBB
- FIRE HYDRANT
- WATER METER UNDERGROUND IN BOX
- F.H.C. FIRE HOSE CABINET
- GATE VALVE
- M.H. SEWER MANHOLE
- F. EX. DRY CHEMICAL FIRE EXTINGUISHER



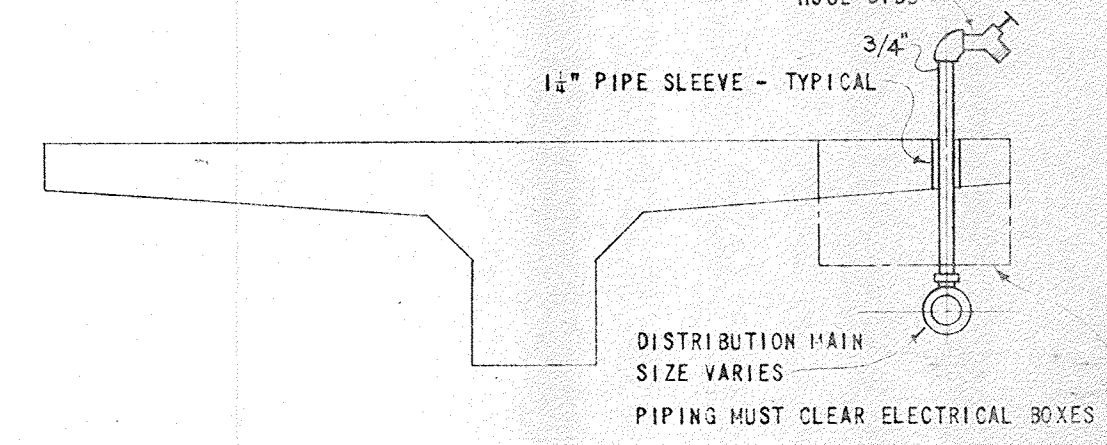
SECTION A-29 NORTH-SOUTH COVERED PIERS
SCALE: 1/4" = 1'-0"



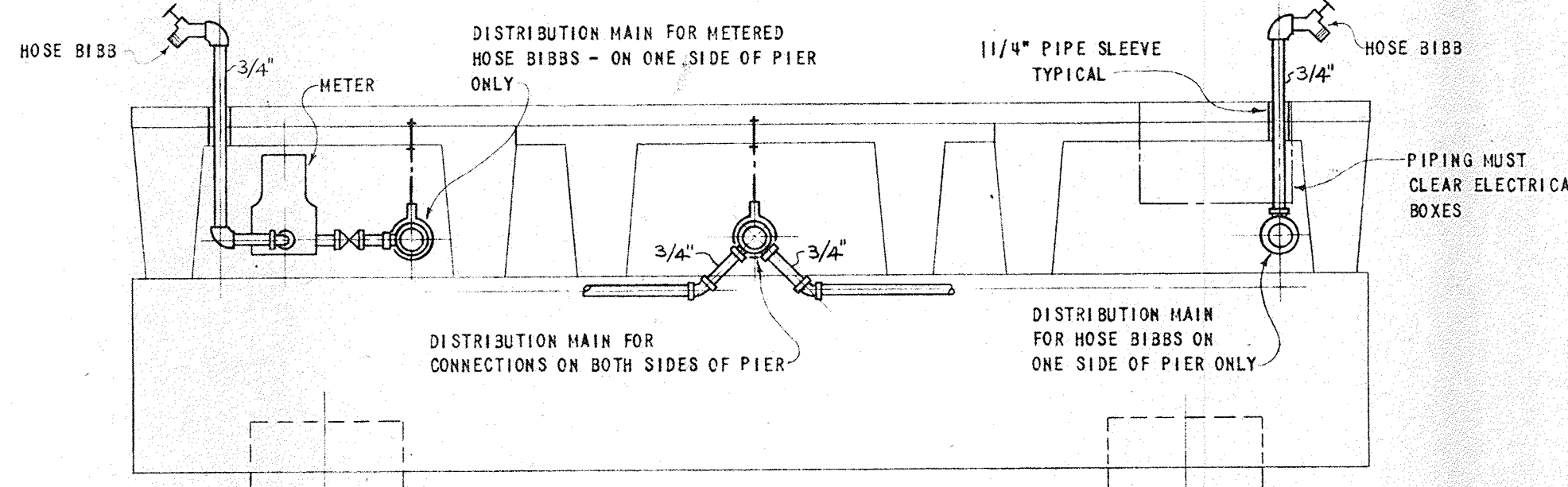
SECTION B-29 EAST-WEST COVERED PIERS
SCALE: 1/4" = 1'-0"



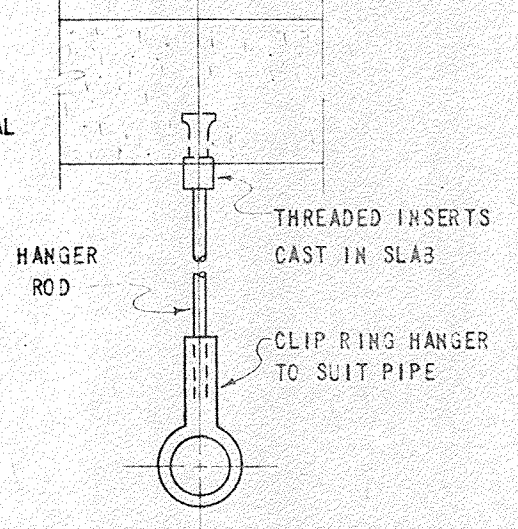
PIPING DETAILS - NORTH-SOUTH COVERED PIERS
SCALE: 1" = 1'-0"



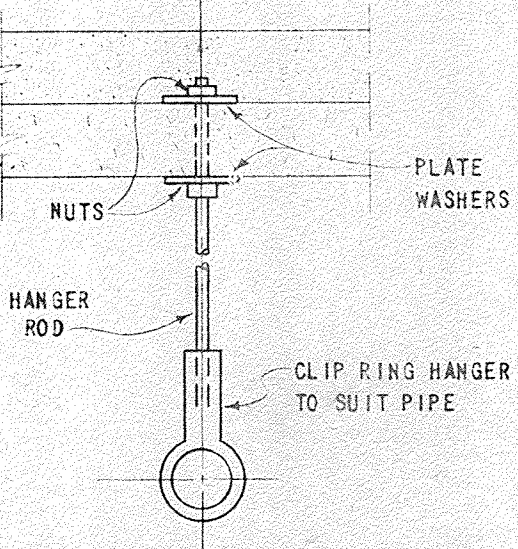
PIPING DETAILS - EAST-WEST COVERED PIERS
SCALE: 1" = 1'-0"



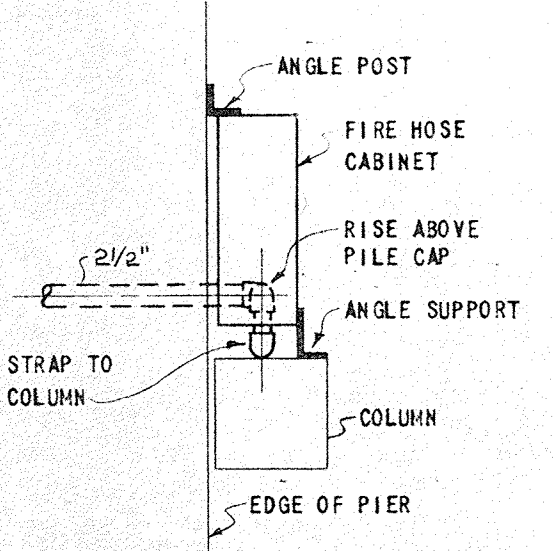
PIPING DETAILS - OPEN PIERS
SCALE: 1" = 1'-0"



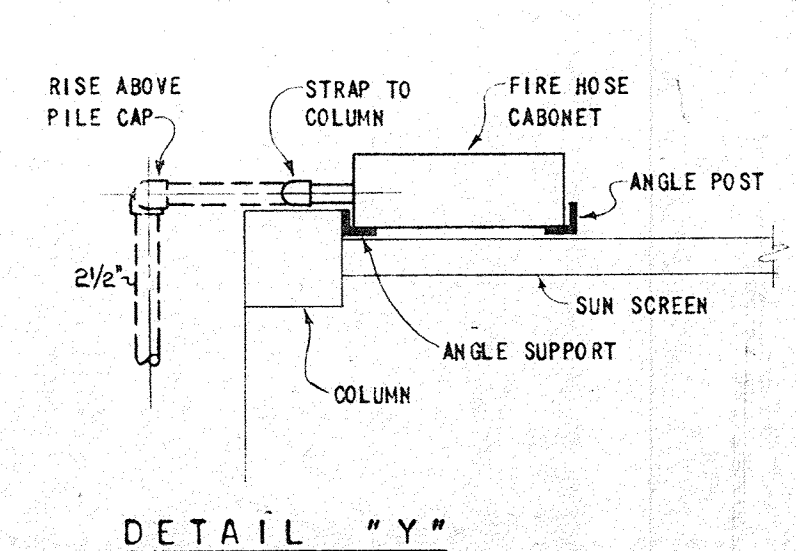
PIPE HANGER DETAIL COVERED PIERS
NO SCALE



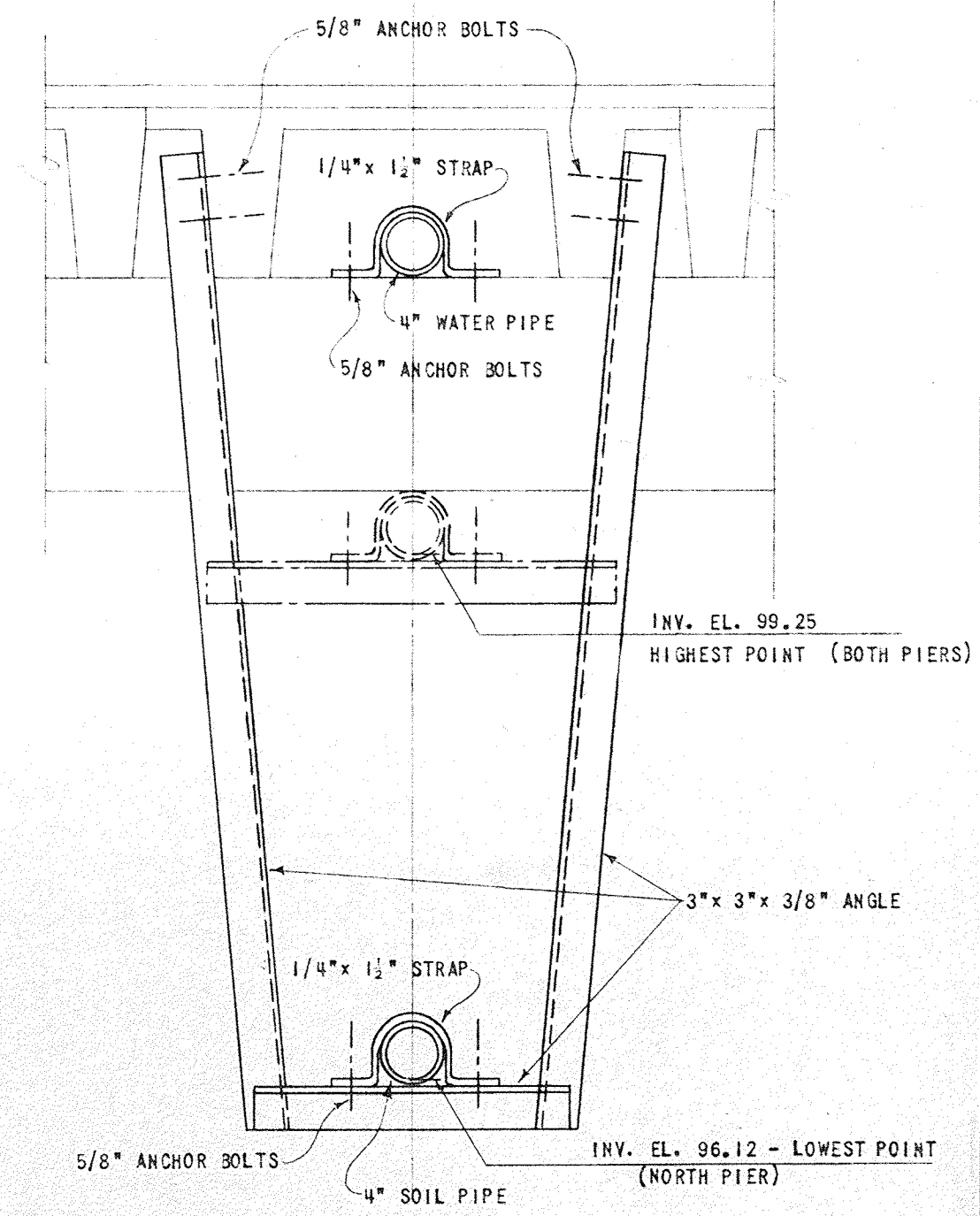
PIPE HANGER DETAIL OPEN PIERS
NO SCALE



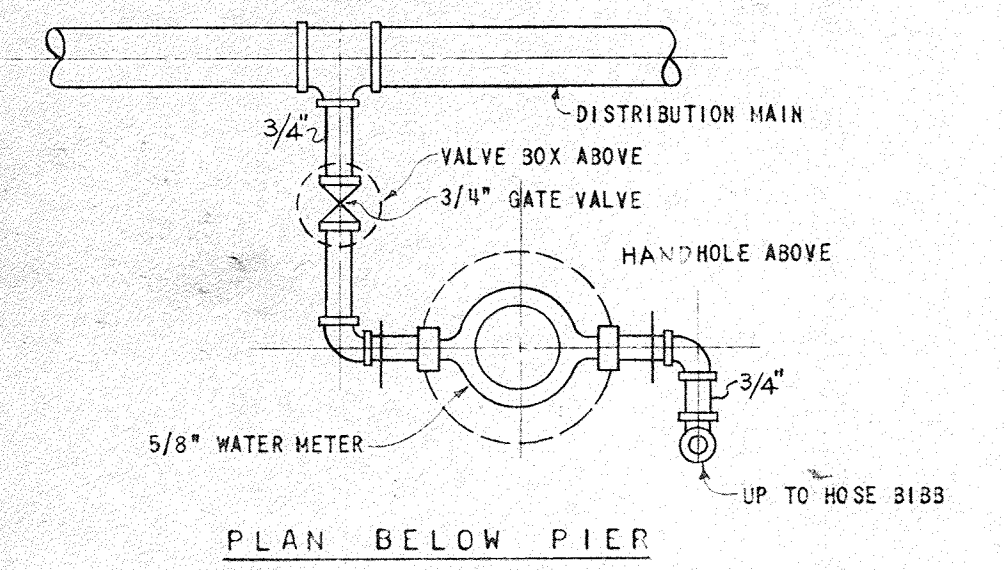
DETAIL "X"
NO SCALE



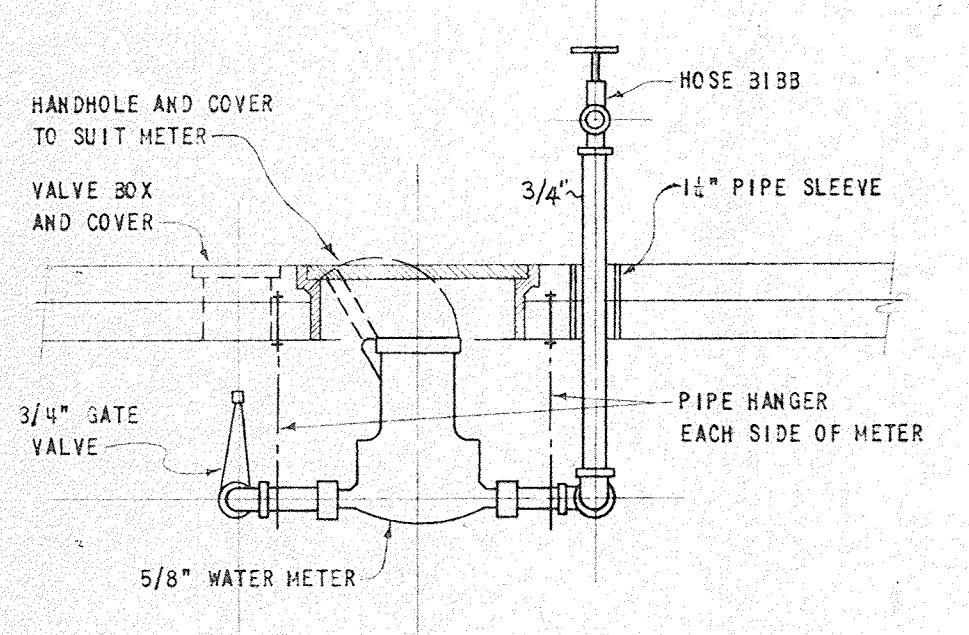
DETAIL "Y"
TYPICAL FOR ALL FIRE HOSE CABINETS ON EAST-WEST COVERED PIERS
NO SCALE



PIPE SUPPORT DETAIL MAIN PIERS - NORTH AND WEST SIDES
SCALE: 1" = 1'-0"



PLAN BELOW PIER



TYPICAL WATER METER CONNECTION DETAIL
NO SCALE

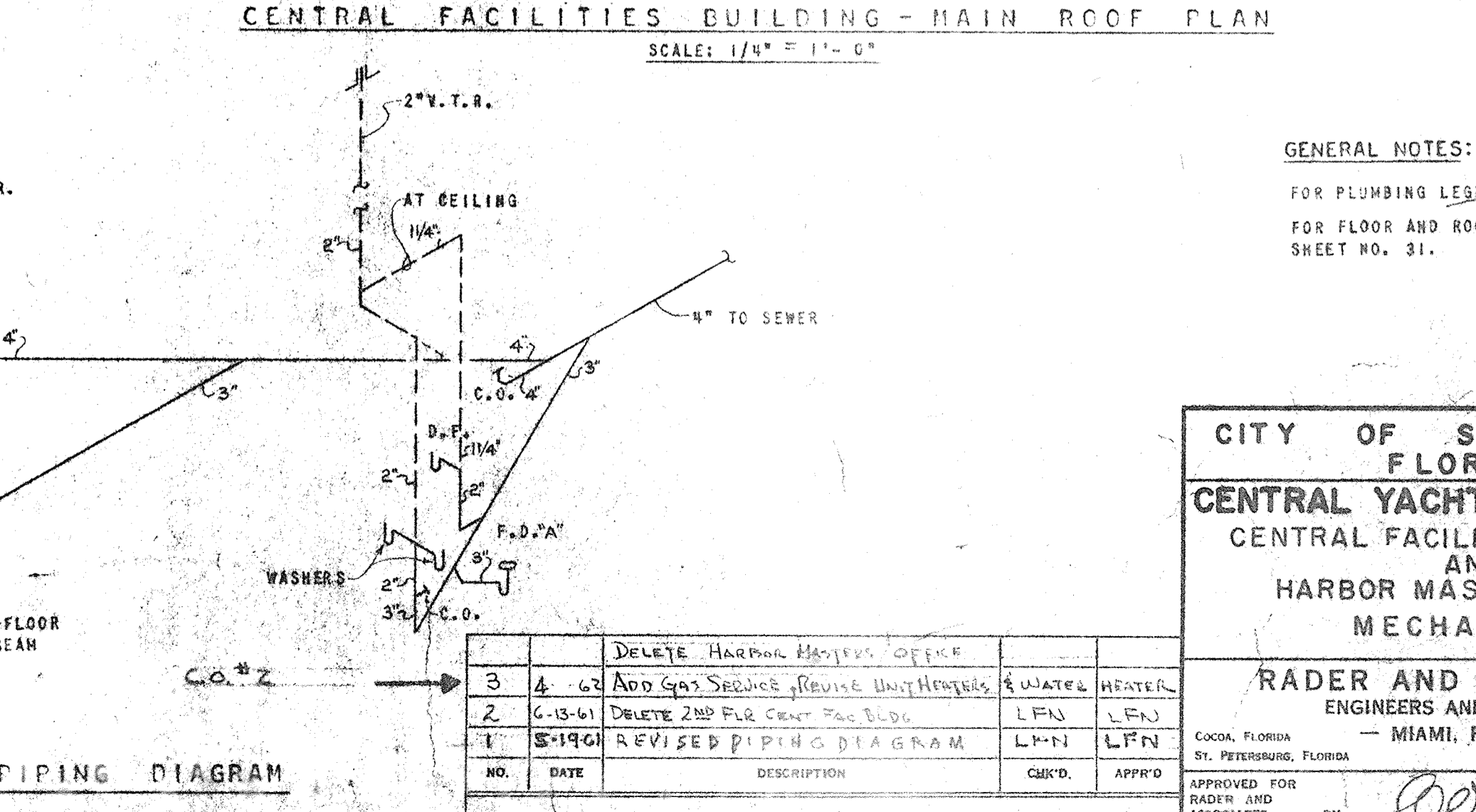
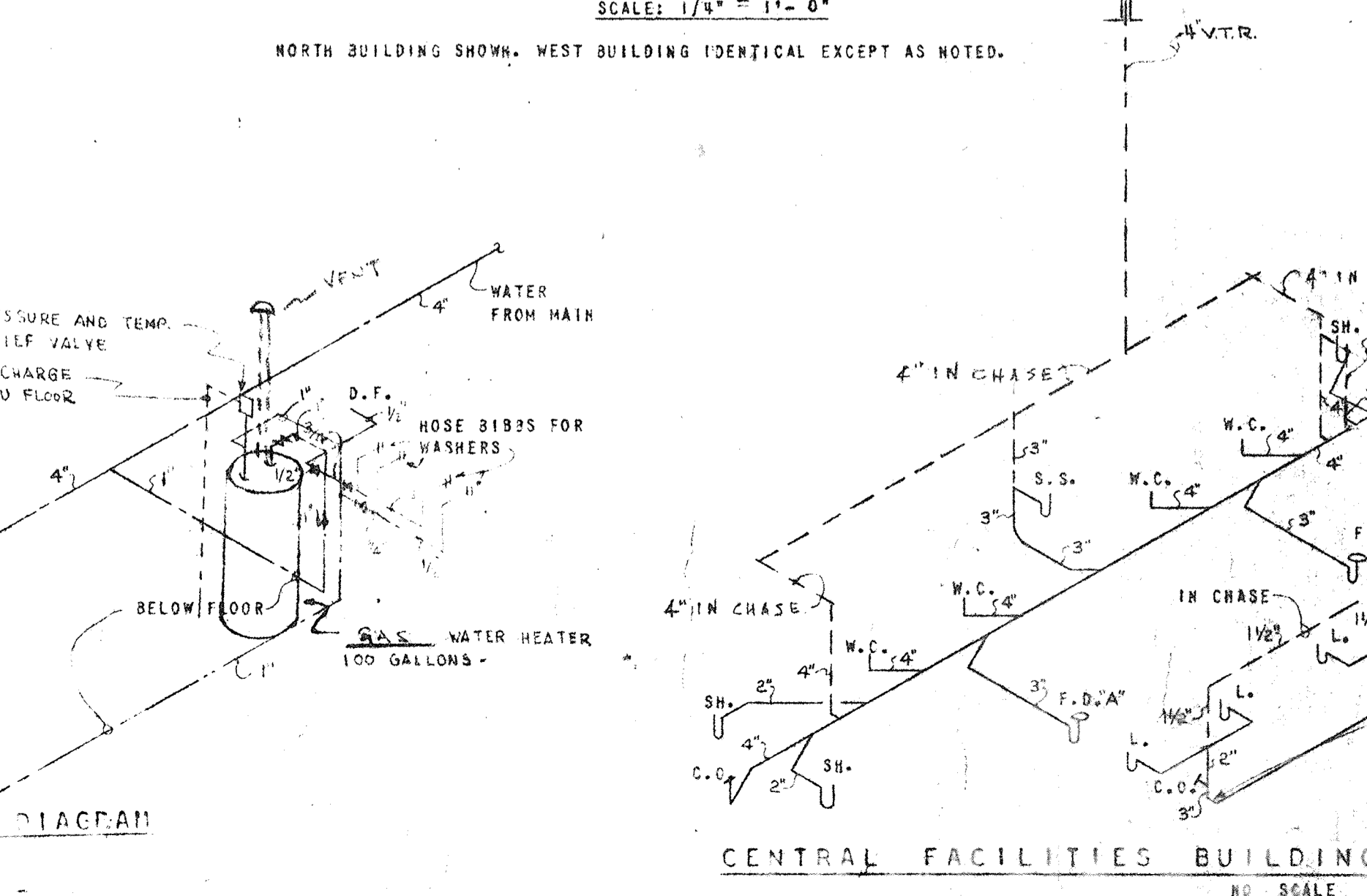
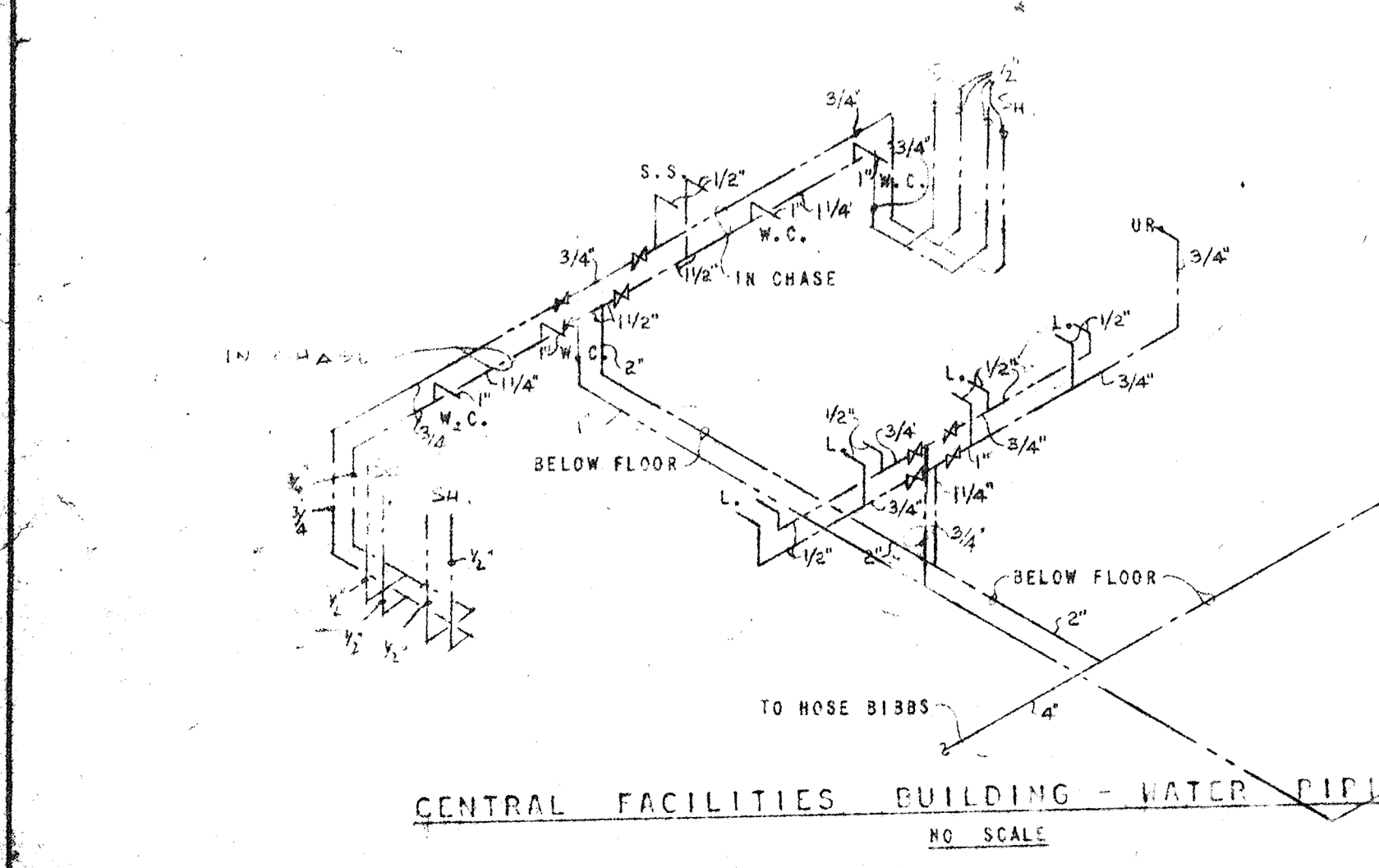
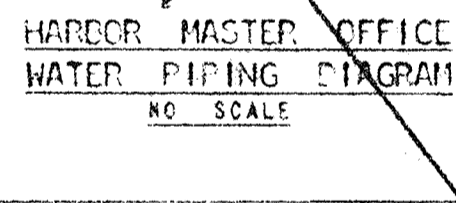
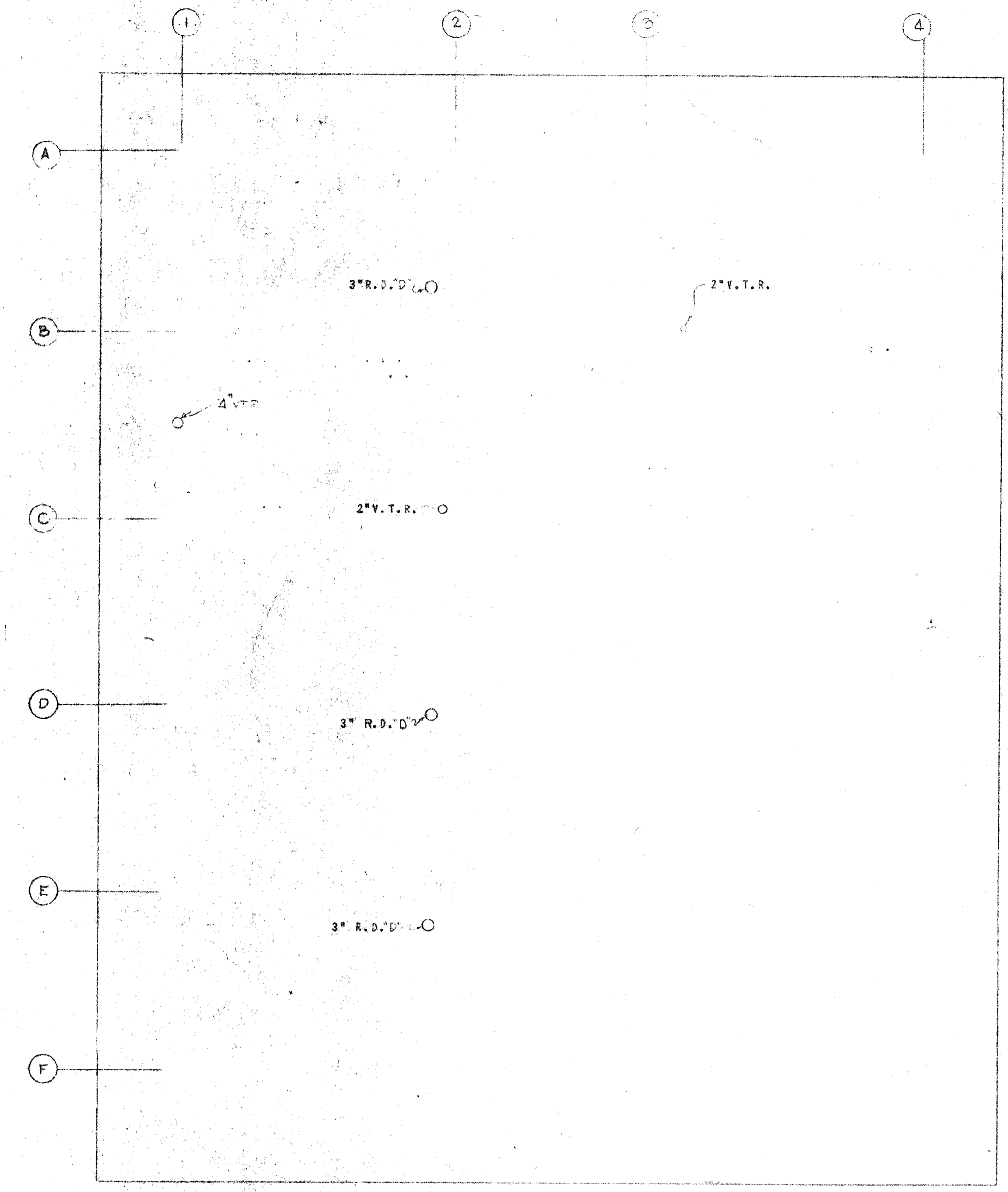
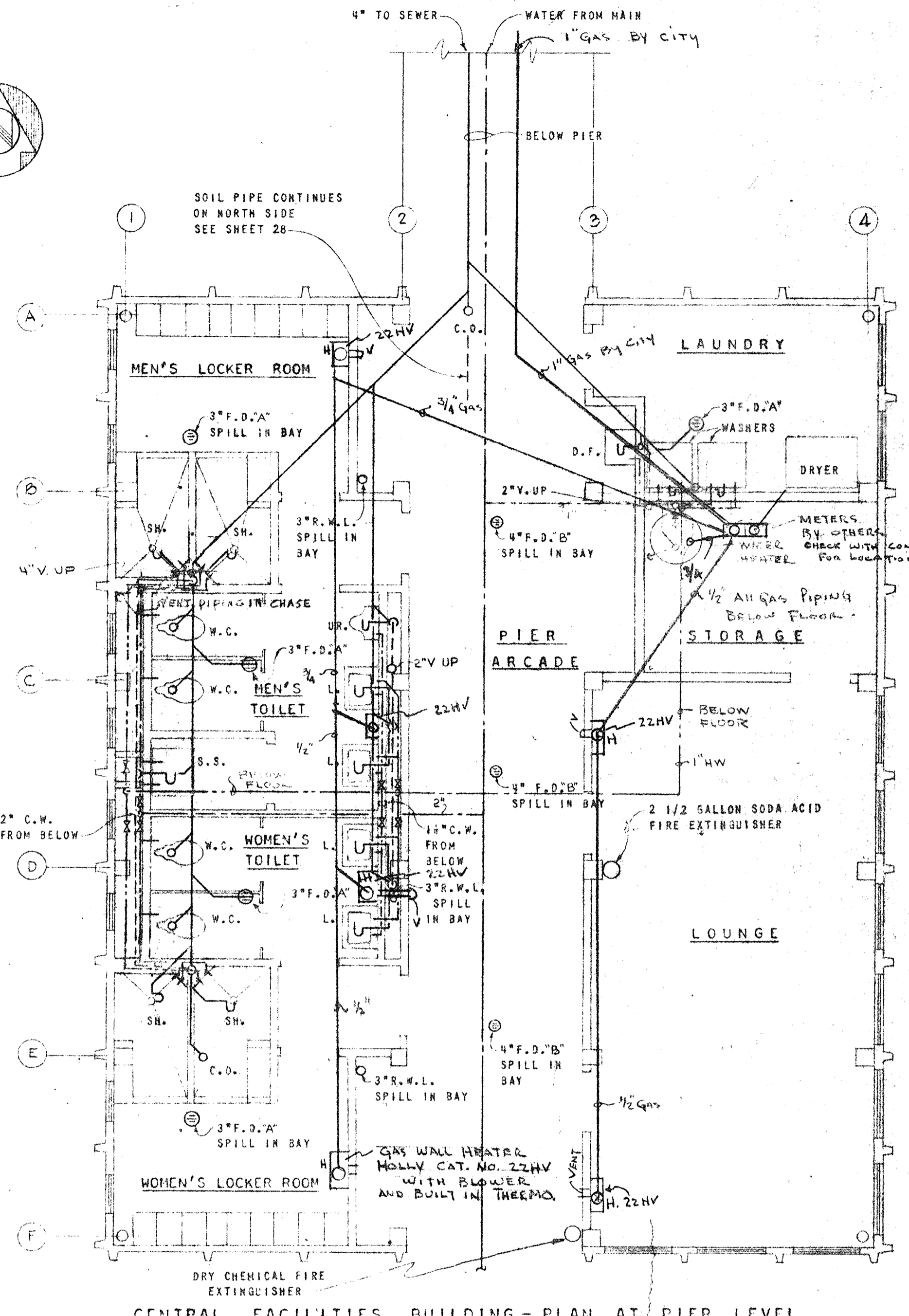
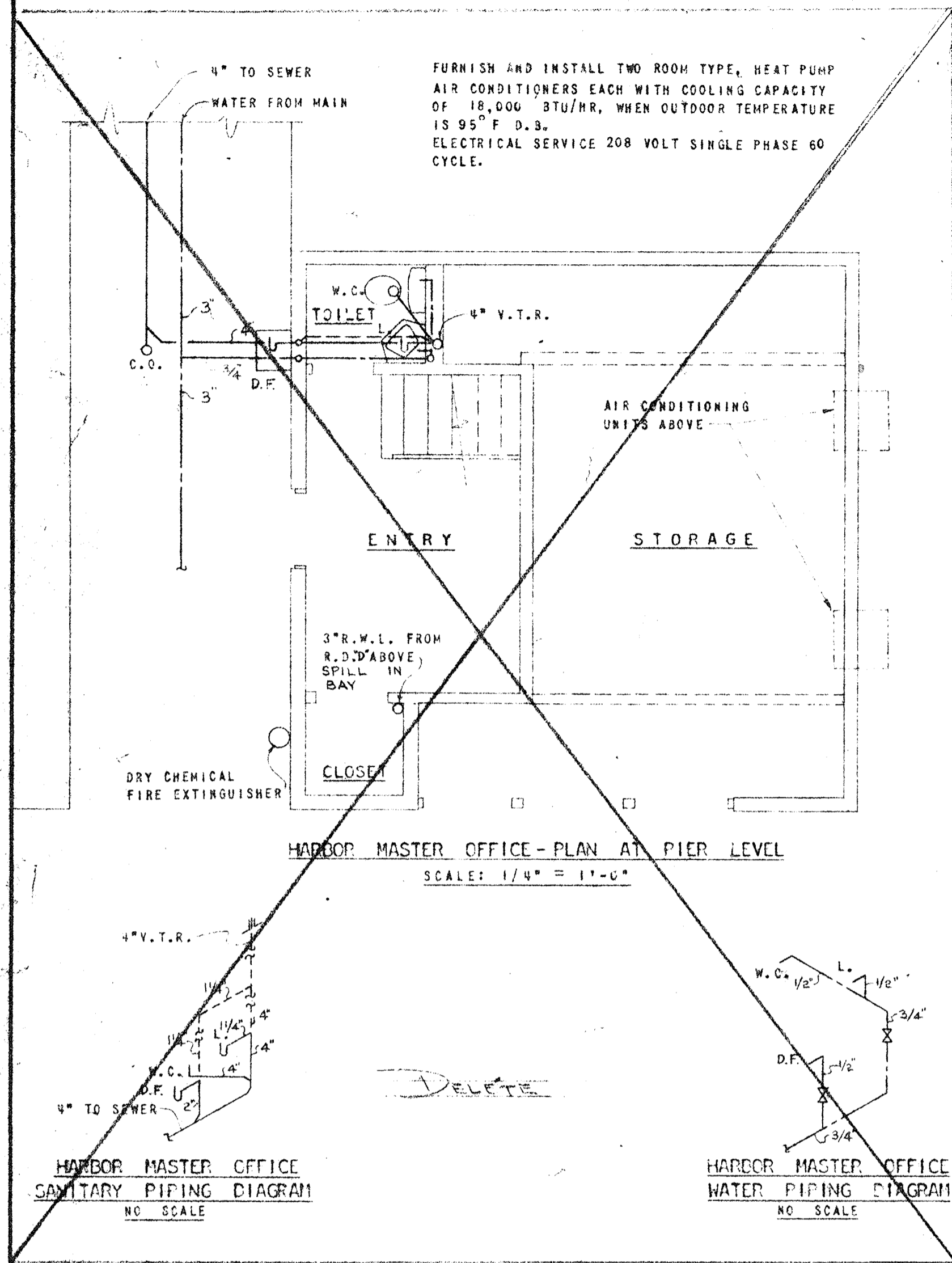
NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.

CITY OF ST. PETERSBURG
FLORIDA
CENTRAL YACHT BASIN MARINA
DETAILS AND LEGEND MECHANICAL

RADER AND ASSOCIATES
ENGINEERS AND ARCHITECTS
— MIAMI, FLORIDA —

DATE: APRIL 1961
DESIGNED: L.C.
DRAWN: C.A.G.
CHECKED: L.H.L.
APPROVED: L.F.N.
SCALE: AS SHOWN
JOB NO.: SF-4506
FILE NO.: SF-4506-129

REGISTERED ENGINEER NO. 3250 STATE OF FLORIDA



GENERAL NOTES:
 FOR PLUMBING LEGEND SEE SHEET NO. 31
 FOR FLOOR AND ROOF DRAIN SCHEDULE SEE SHEET NO. 31.

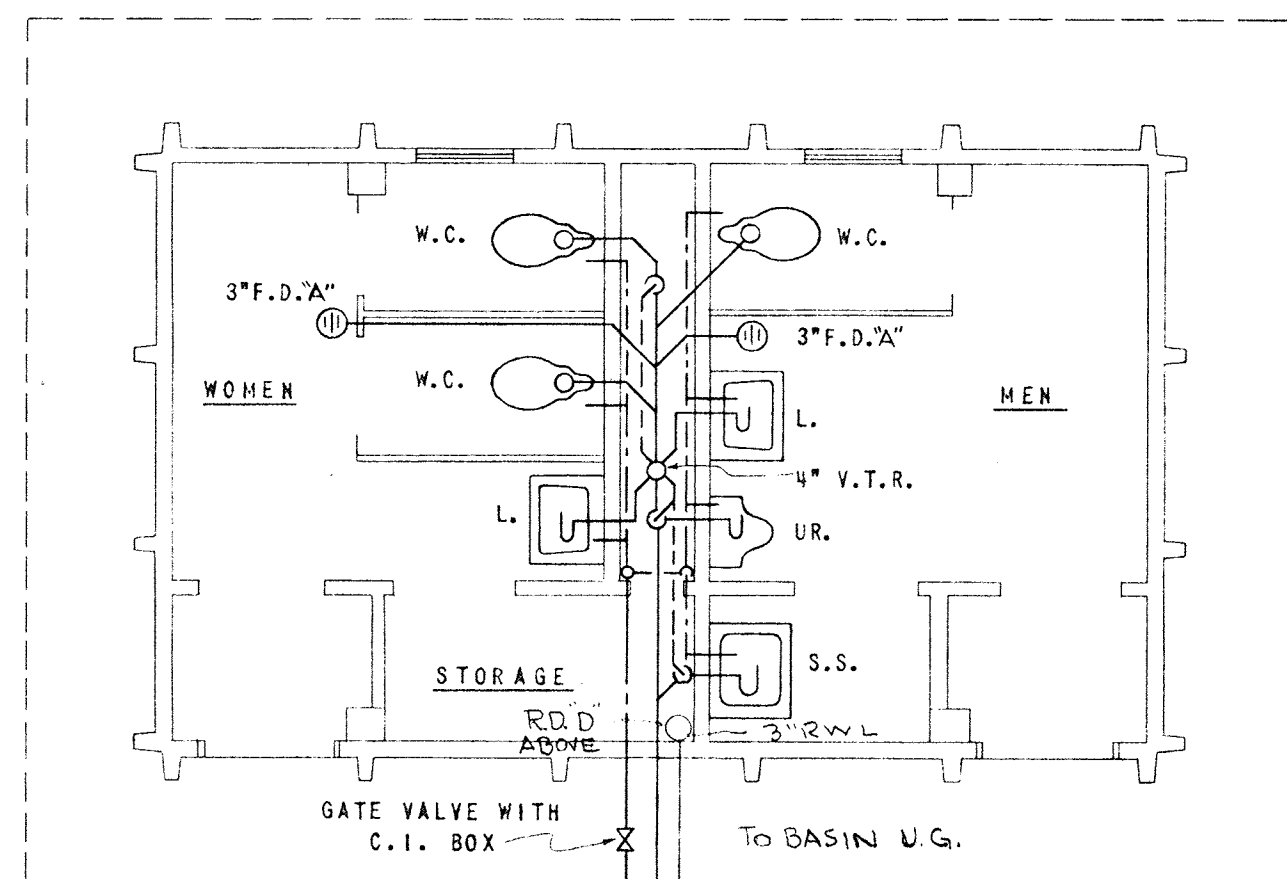
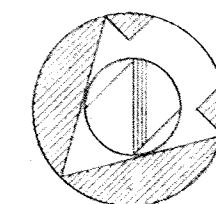
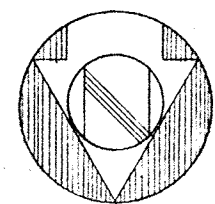
CITY OF ST. PETERSBURG
 FLORIDA
CENTRAL YACHT BASIN MARINA
 CENTRAL FACILITIES BUILDINGS
 AND
 HARBOR MASTER OFFICE
 MECHANICAL

RADER AND ASSOCIATES
 ENGINEERS AND ARCHITECTS
 MIAMI, FLORIDA

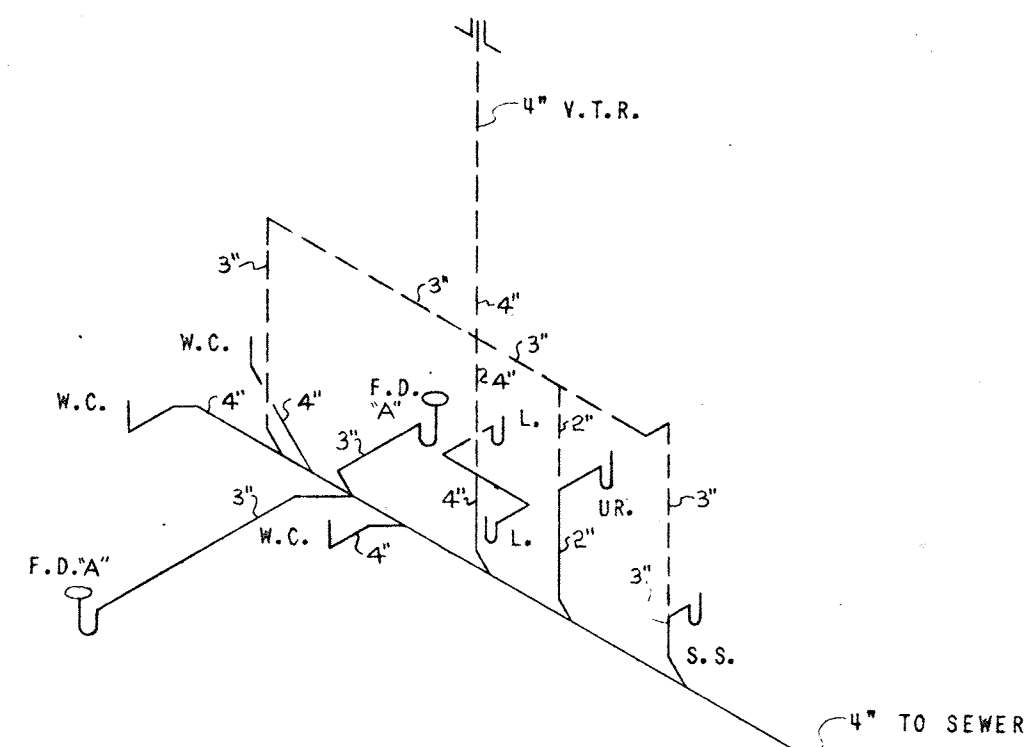
APPROVED FOR RADER AND ASSOCIATES: *[Signature]*
 REGISTERED ENGINEER NO. 3250 STATE OF FLORIDA

NO.	DATE	DESCRIPTION	CHK'D.	APPR'D.
3	4-63	DELETE HARBOR MASTER OFFICE		
2	6-13-61	ADD GAS SERVICE (REVISE UNIT HEADINGS)	LFN	LFN
1	5-19-61	DELETE 2ND FLOOR CENT FAC BLDG	LFN	LFN
1	5-19-61	REVISED PIPING DIAGRAM	LFN	LFN

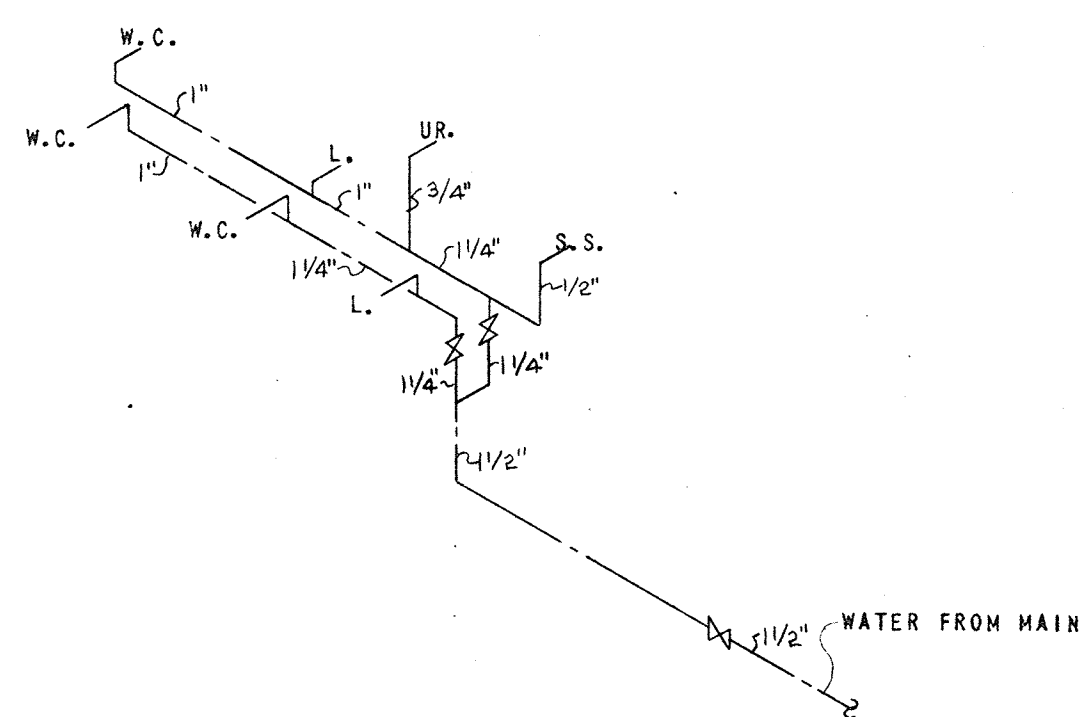
REVISIONS



REST ROOMS - PLAN
SCALE: 1/4" = 1'-0"



REST ROOMS - SANITARY PIPING DIAGRAM
NO SCALE



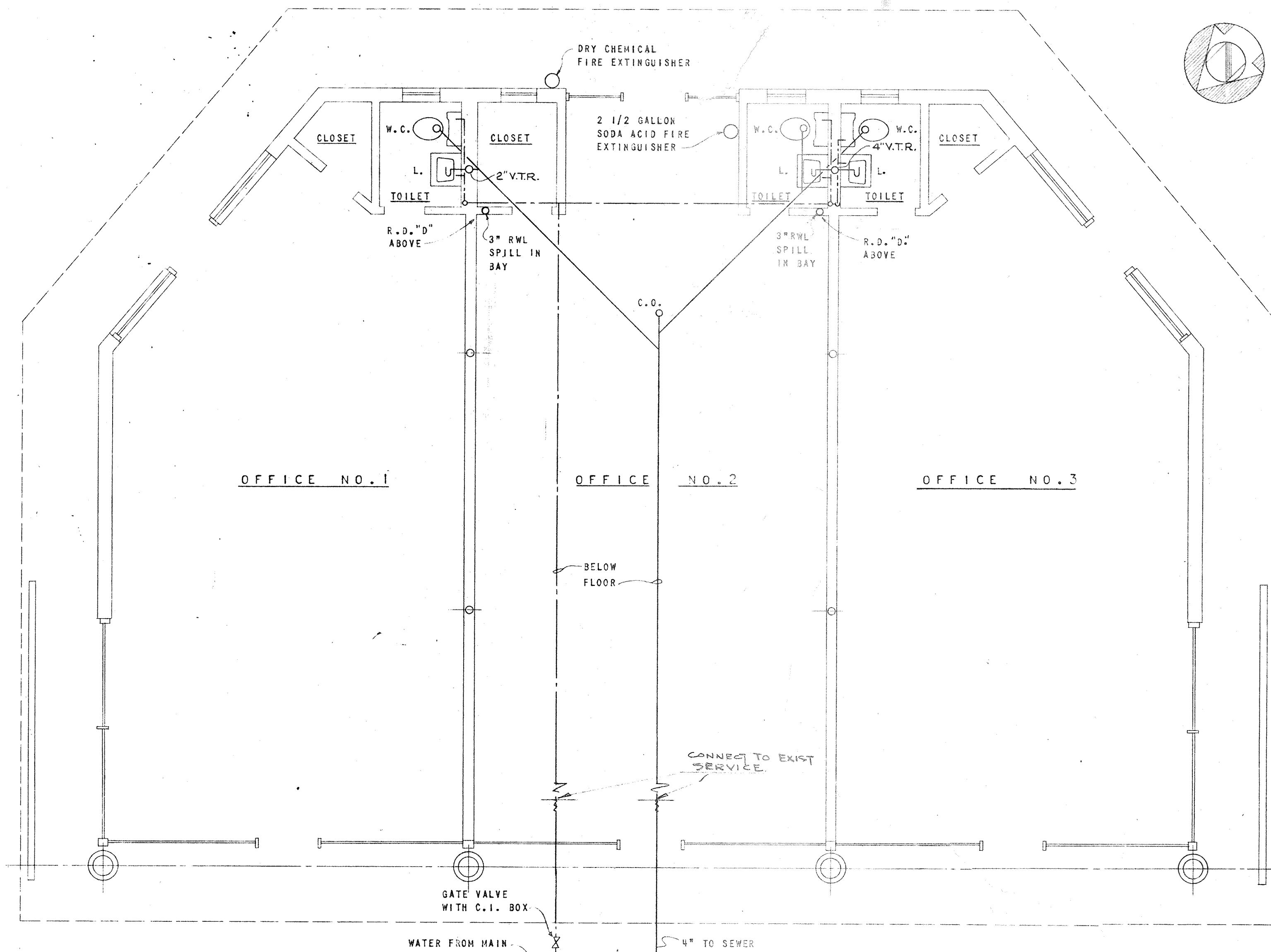
REST ROOMS - WATER PIPING DIAGRAM
NO SCALE

PLUMBING LEGEND

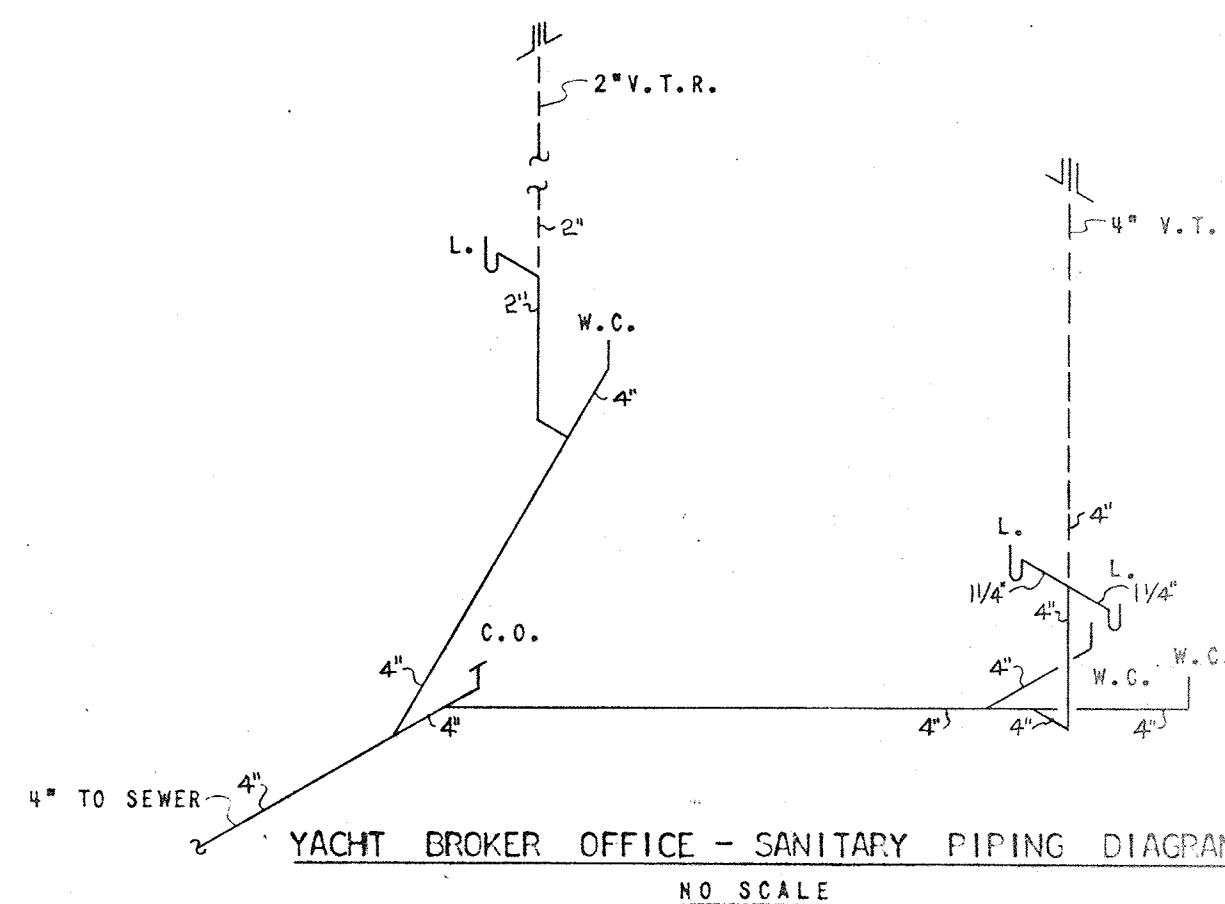
- SOIL OR WASTE PIPING
- - - VENT PIPING
- COLD WATER PIPING
- - - HOT WATER PIPING
- ⊗ GATE VALVE
- W.C. WATER CLOSET
- UR. URINAL
- L. LAVATORY
- SH. SHOWER
- S.S. SERVICE SINK
- D.F. DRINKING FOUNTAIN
- F.D. FLOOR DRAIN
- R.D. ROOF DRAIN
- C.O. CLEANOUT
- W. WASTE
- V. VENT
- V.T.R. VENT THRU ROOF
- R.W.L. RAINWATER LEADER

FLOOR AND ROOF DRAIN SCHEDULE

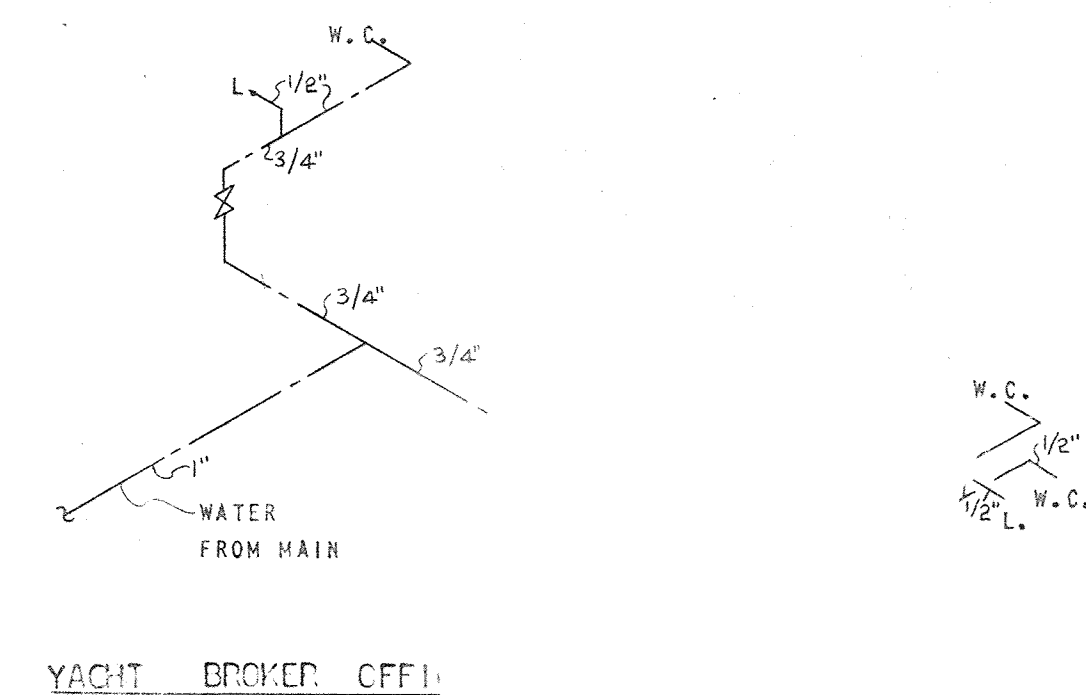
MARK	LOCATION	SIZE	JOSAM TYPE
F.D. "A"	TOILETS, LAUNDRY, LOCKER ROOMS	3"	303
F.D. "B"	PIER ARCADE	4"	304
R.D. "C"	SUN DECK	3"	4043
R.D. "D"	FLAT ROOFS	3"	483
R.D. "E"	PIER ROOF	4"	464
R.D. "F"	PIER ROOF	5"	465



YACHT BROKER OFFICE - PLAN
SCALE: 1/4" = 1'-0"



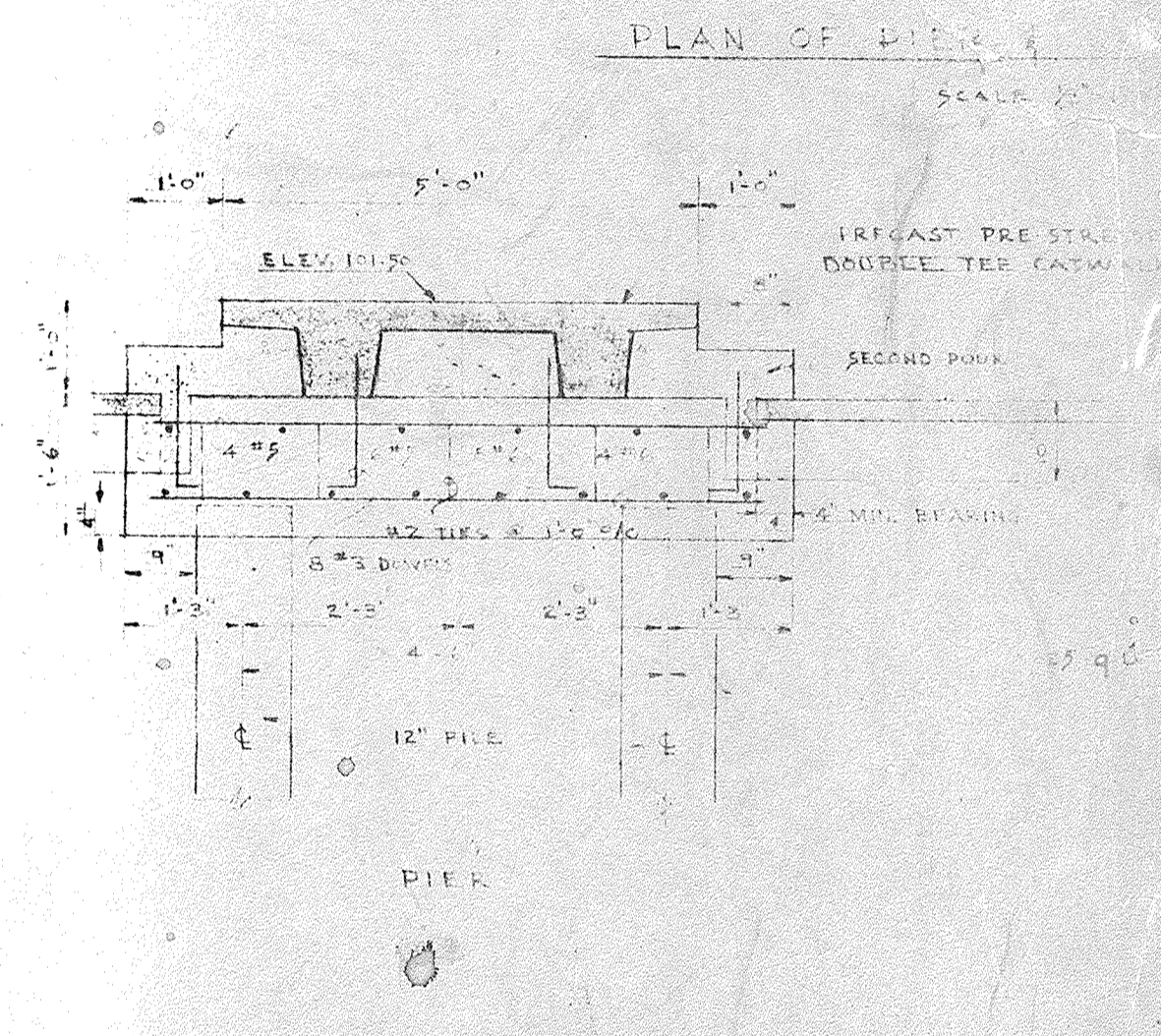
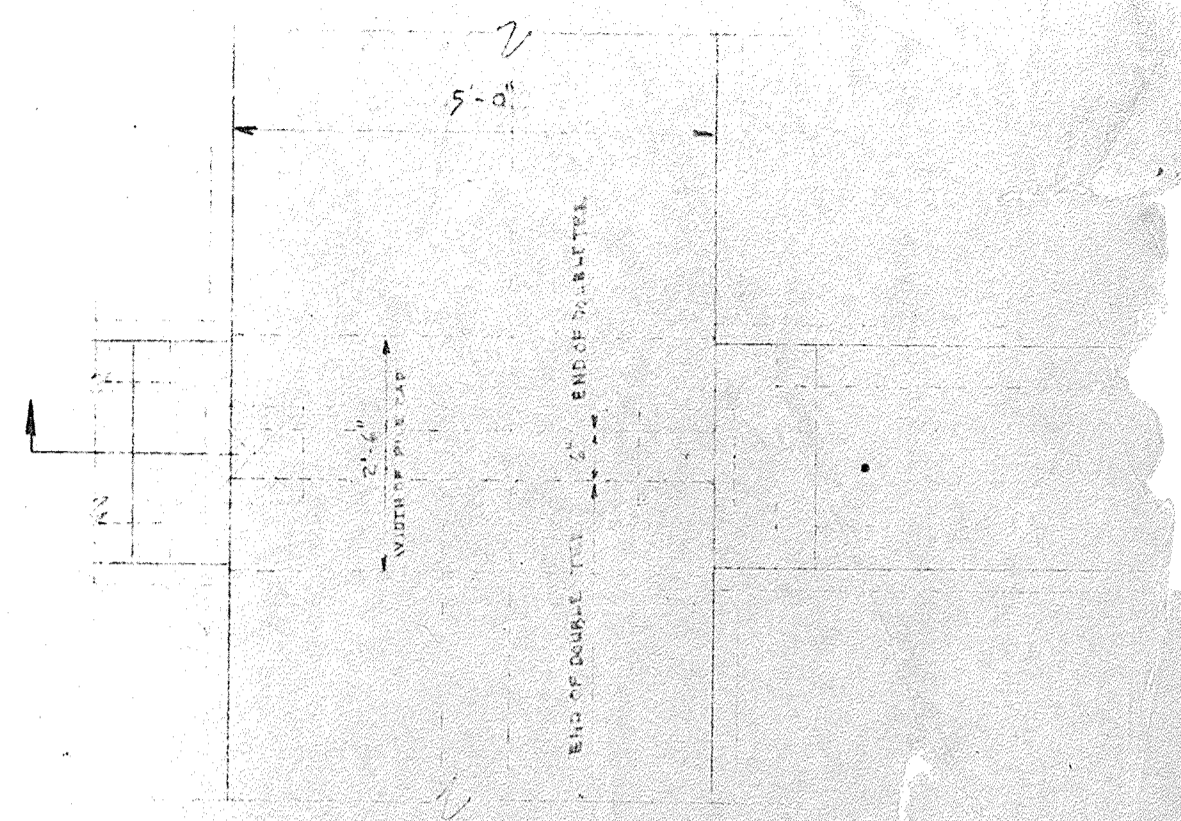
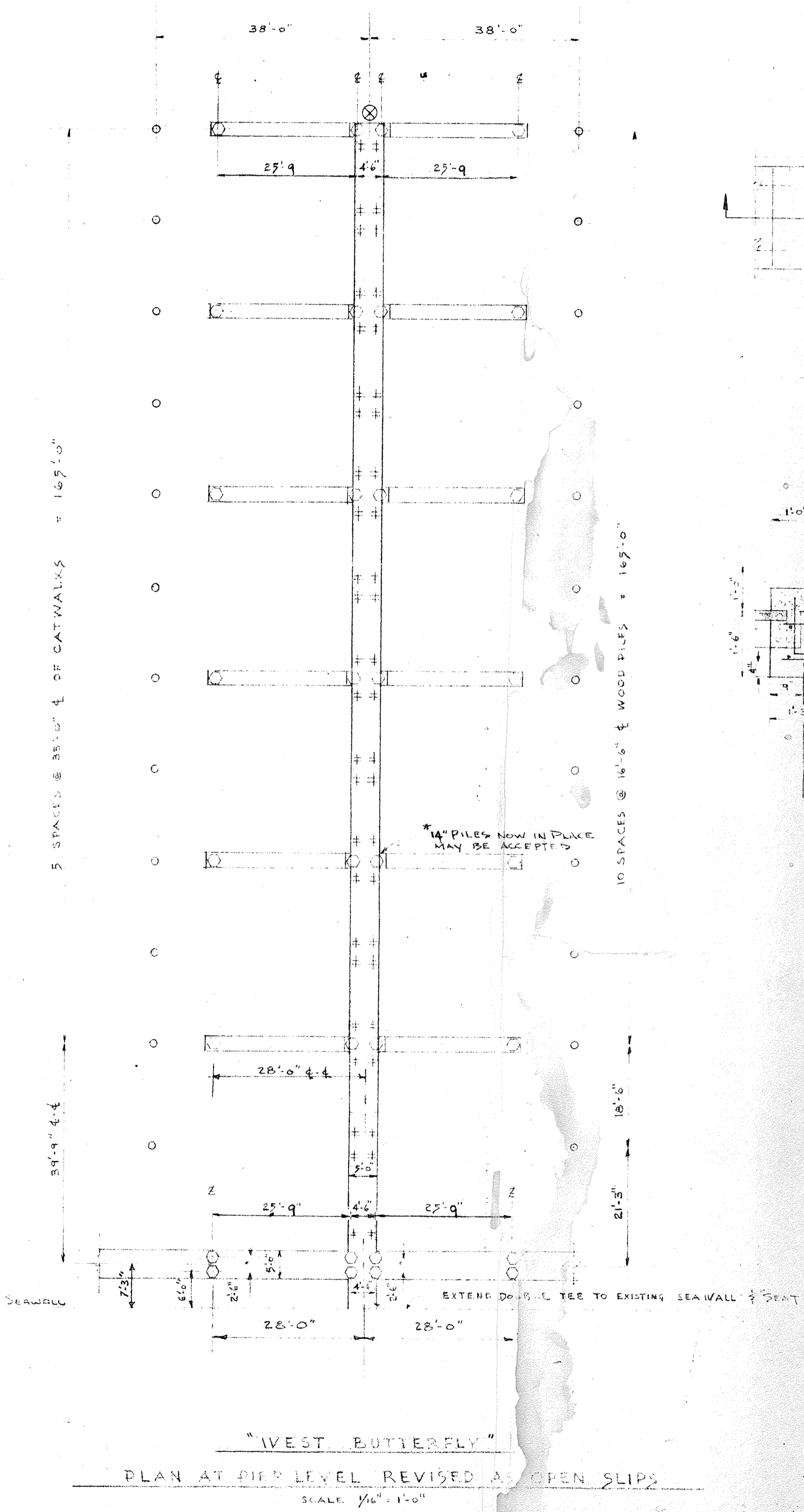
YACHT BROKER OFFICE - SANITARY PIPING DIAGRAM
NO SCALE



YACHT BROKER OFFICE - WATER PIPING DIAGRAM
NO SCALE

NO.	DATE	DESCRIPTION	CHGD.
2	2-64	ISSUED FOR CONSTRUCTION OF DAT INTERIOR YACHT BROKER OFFICE	
1	6-62	VALATE INTERIOR YACHT BROKER OFFICE	DAT

CITY OF FLO
CENTRAL YACHT
RE ME
RADER A
ENGINEER



TYPICAL SECTION

SCALE 1/8" = 1'-0"

NOTE: THIS SHEET REVISES CERTAIN PORTIONS OF SHEETS 719 OF THE CONTRACT DRAWINGS. SEE SHEETS 24 FOR REVISED DETAILS.