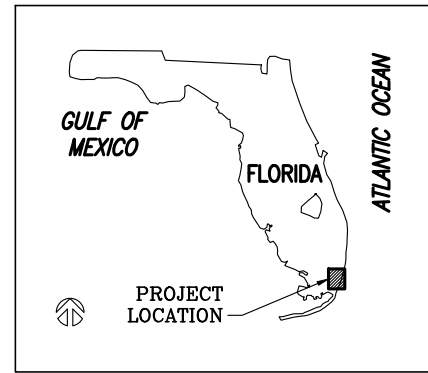


DINNER KEY MARINA

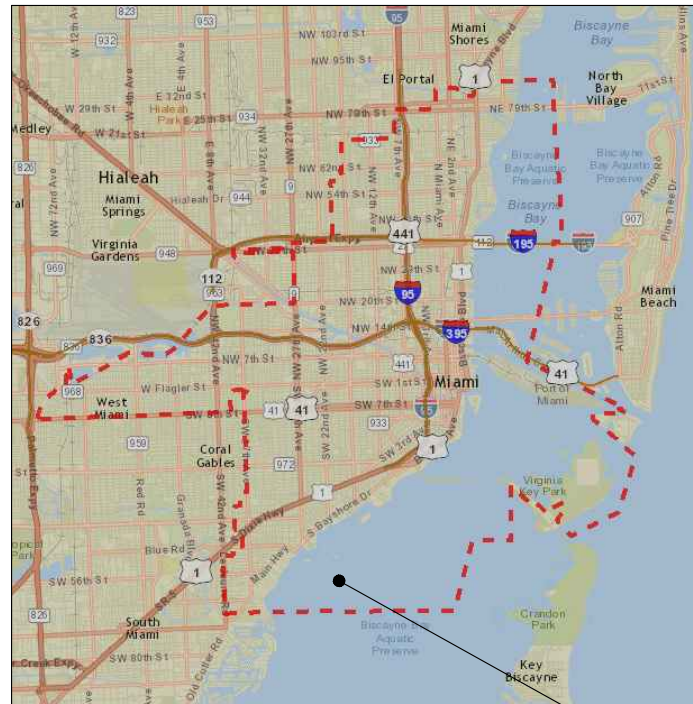
RFP DRAWINGS

CITY OF MIAMI

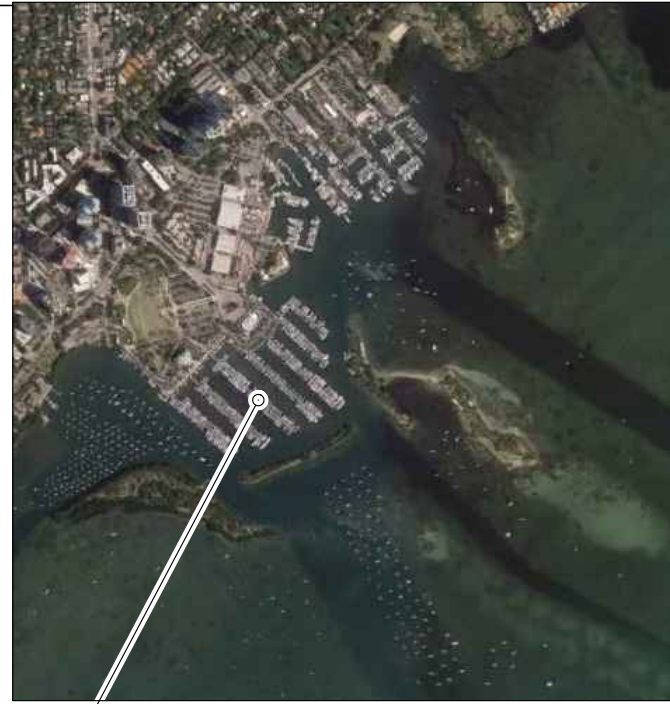
SECTION 22, TOWNSHIP 54S, RANGE 41E



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS



PROJECT ADDRESS:
DINNER KEY MARINA
3400 PAN AMERICAN DRIVE
MIAMI, FL, 33133



CITY COMMISSION

KEON HARDEMON, CHAIR
KEN RUSSELL, VICE CHAIR
WILFREDO (WILLY) GORT, COMMISSIONER, DISTRICT ONE
JOE CAROLLO, COMMISSIONER, DISTRICT THREE
MANOLO REYES, COMMISSIONER, DISTRICT FOUR
FRANCIS SUAREZ, MAYOR
EMILIO T. GONZALEZ, CITY MANAGER
VICTORIA MENDEZ, CITY ATTORNEY
TODD B. HANNON, CITY CLERK



Mark	Description	Date	Appr.

DINNER KEY MARINA
DCP DRAWINGS

COVER SHEET

Rev.	REVNO	DATE	DATE	REVNO

Designed by:	DSSN	Chk by:	CHKR
Drawn by:	DRFT	Reviewed by:	REVR
Submitted by:		Submitted by:	
TIM BLANKENSHIP		MOFFATT & NICHOL	

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

SEAL

DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

Sheet
Reference No.
G-001
INDEX: 1 OF 8

GENERAL NOTES

- 1. GENERAL NOTES ARE NOT INTENDED TO REPLACE THE CONTRACT DOCUMENTS. SEE CONTRACT DOCUMENTS FOR REQUIREMENTS IN ADDITION TO THESE GENERAL NOTES. THE CONTRACT DOCUMENTS SHALL INCLUDE BUT ARE NOT LIMITED TO THE WORKING DRAWINGS GENERAL PROVISIONS, SPECIAL PROVISIONS AND ANY RELEVANT ADDENDA ITEMS. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (2016 EDITION).
2. THE WORKING DRAWINGS ARE NOT NECESSARILY COMPLETE IN EVERY DETAIL. THE D/B TEAM SHALL PROVIDE ALL EQUIPMENT, MATERIAL, SERVICES, LABOR, ETC. FOR A COMPLETE INSTALLATION INCLUDING WORK REASONABLY INFERRED FROM THE DESIGN CRITERIA DRAWINGS AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS, WHETHER SHOWN OR NOT ON THE DRAWINGS.
3. THE D/B TEAM SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. DO NOT SCALE DCP DRAWINGS. REPORT ANY DISCREPANCIES IN THE DESIGN CRITERIA DRAWINGS TO THE DESIGN CRITERIA ENGINEER FOR CLARIFICATIONS OR ADJUSTMENTS PRIOR TO COMMENCING WORK. THE D/B TEAM SHALL NOT BEGIN DEMOLITION/CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
4. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES AND THE D/B TEAM DESIGN CRITERIA DRAWINGS THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE DESIGN CRITERIA ENGINEER ANY CLARIFICATION OR INTERPRETATION OF THE GENERAL NOTES AND/OR DESIGN CRITERIA DRAWINGS IN WRITING AND IN ADVANCE OF THE BEGINNING OF DEMOLITION/CONSTRUCTION. NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERCEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS.
5. ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF DEMOLITION/CONSTRUCTION AND INSTALLATION OF MATERIAL IS THE D/B TEAM'S RESPONSIBILITY.
6. THE D/B TEAM SHALL KEEP ACCURATE RECORDS OF ANY CHANGES MADE TO THE CONSTRUCTION DRAWINGS ON A SEPARATE SET OF PLANS PROVIDED BY THE D/B TEAM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY OF THE COMPLETED WORK TO THE ENGINEER PRIOR TO APPROVAL OF THE FINAL PAYMENT APPLICATION.
7. UNLESS OTHERWISE NOTED, THE D/B TEAM SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY DEBRIS RESULTING FROM DEMOLITION/CONSTRUCTION. DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE D/B TEAM. ALL MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE D/B TEAM UNLESS OTHERWISE NOTED, AND SHALL BE DISPOSED OF AS SPECIFIED. ALL DEBRIS SHALL BE PROPERLY DISPOSED OF IN A PERMITTED LANDFILL. THE D/B TEAM SHALL KEEP RECORDS OF ALL MATERIALS REMOVED FROM THE SITE, INCLUDING DESCRIPTION, QUANTITIES, AND DISPOSAL LOCATION.
8. EXISTING CONSTRUCTION, INCLUDING UTILITIES AND OTHER MISCELLANEOUS ITEMS WHICH ARE TO REMAIN, SHALL REMAIN UNDISTURBED AND BE PROTECTED, UNLESS NOTED OTHERWISE.
9. THE D/B TEAM IS RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE AND WITHIN THE LIMITS OF THIS PROJECT AS A RESULT OF DEMOLITION/CONSTRUCTION.
10. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT NO EXPENSE TO THE CITY, UNLESS OTHERWISE NOTED.
11. THE PROJECT SITE IS ALONG AN ACTIVE NAVIGATION CHANNEL. THE D/B TEAM SHALL CONSIDER AND PLAN FOR THE EFFECTS OF PASSING VESSELS. THE CHANNEL SHALL REMAIN OPEN AND ACCESSIBLE DURING CONSTRUCTION.
12. THE D/B TEAM SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, TURBIDITY CURTAINS, BOOMS, TARPULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIRBORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE D/B TEAM SHALL BE RESPONSIBLE FOR CLEANUP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA.
13. THE CITY SHALL HAVE THE SOLE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION, STAGING, ACCESS, AND STORAGE.
14. THE D/B TEAM SHALL STAKEOUT ALL BASELINES OF CONSTRUCTION, THE LOCATION OF ALL NEW CONSTRUCTION, AND VERIFY ALL SETBACKS, OFFSETS, AND CLEARANCES PRIOR TO THE START OF WORK.
15. THE CITY MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT.
16. IF OTHER CONSTRUCTION PROJECTS EXIST IN THE IMMEDIATE VICINITY OF THE PROJECT SITE, D/B TEAM SHALL COORDINATE WORK AS NECESSARY AT THE PROJECT SITE TO MINIMIZE IMPACTS TO OTHER D/B TEAM MEMBERS. D/B TEAM SHALL PROVIDE REASONABLE ACCESS THROUGH THE PROJECT SITE AT ALL TIMES.
17. SUBAQUEOUS UTILITIES MAY BE PRESENT AT THE PROJECT SITE. THE D/B TEAM SHALL CONTACT SUNSHINE 811, 72 HOURS PRIOR TO THE START OF CONSTRUCTION TO VERIFY LOCATIONS OF SUBAQUEOUS UTILITIES PRIOR TO CONSTRUCTION. D/B TEAM IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES AND DEBRIS.
18. D/B TEAM SHALL SUBMIT LOCAL NOTICE TO MARINERS PRIOR TO CONSTRUCTION.

SURVEY NOTES

- 1. HYDROGRAPHIC AND RESOURCE DATA DEPICTED ON THESE DESIGN CRITERIA DRAWINGS ARE BASED ON SURVEYS PERFORMED BY OLIN HYDROGRAPHIC SOLUTIONS COMPLETED JULY 20, 2017 AND ARE ONLY INDICATIVE OF THE CONDITIONS EXISTING AT THAT TIME.
2. HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO THE 1983 NORTH AMERICAN DATUM, FLORIDA STATE PLANE (NAD 83 EAST).
3. ALL ELEVATIONS PROVIDED ON THE DRAWINGS ARE REFERENCED IN FEET TO NAVD88.
4. THE FOLLOWING DATA IS PROVIDED REGARDING TIDAL INFORMATION. TIDAL INFORMATION WAS OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS) STATION 8723214 (VIRGINIA KEY, FL). ELEVATIONS ARE GIVEN IN FEET AND REFERENCED ON THE 1983-2001 EPOCH.
5. TIDAL DATA IS PER NOAA AVERAGES BASED ON 1983-2001 TIDAL EPOCH AND NOT GUARANTEED TO REPRESENT CONDITIONS WHICH MAY OCCUR DURING CONSTRUCTION. ACTUAL WATER LEVELS MAY VARY FROM LEVELS INDICATED. THE D/B TEAM IS RESPONSIBLE FOR MAKING HIS OWN ESTIMATES OF WATER LEVELS WHICH MAY OCCUR DURING CONSTRUCTION. VARIATION OF TIDAL LEVELS FROM THOSE INDICATED OR CONTRACTOR'S ESTIMATION OF TIDAL LEVELS SHALL NOT BE CONSIDERED AS A CLAIM FOR ADDITIONAL COMPENSATION OR DELAY OF WORK.
6. SUBAQUEOUS UTILITIES WERE NOT LOCATED AS PART OF THIS INVESTIGATION.
7. AERIAL PHOTOGRAPHY OBTAINED FROM NEARMAP DATED JUNE 2018.

ENVIRONMENTAL NOTES

- 1. THE D/B TEAM SHALL ABIDE BY ENVIRONMENTAL PERMITS AND CONDITIONS FROM THE FOLLOWING AGENCIES:
- U.S. ARMY CORPS OF ENGINEERS
- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
- MIAMI-DADE COUNTY DERM
- U.S. COAST GUARD
- FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC)
2. THE D/B TEAM SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.

DEBRIS REMOVAL

- 1. THE D/B TEAM SHALL SWEEP SEABED AND INVESTIGATE DEBRIS SIGNATURES WITHIN THE MARINA AREA PRIOR TO CONSTRUCTION.
2. ALL DEBRIS SHALL BE RECOVERED AND DISPOSED OF AT AN APPROVED UPLAND DISPOSAL SITE PRIOR TO COMMENCEMENT OF REPAIRS.
3. THE D/B TEAM SHALL SATISFY ALL DEBRIS REMOVAL REQUIREMENTS OUTLINED IN THE ENVIRONMENTAL PERMIT CONDITIONS.
4. SUBMIT DEBRIS REMOVAL REPORT WITH LOAD TICKETS AND REPRESENTATIVE PHOTOGRAPHS OF DEBRIS REMOVED. PROVIDE COORDINATES OF MAJOR DEBRIS ITEMS RECOVERED AND REMOVED.
5. SUBMIT SIDE SCAN SONAR BATHYMETRIC SURVEY INDICATING NO DEBRIS REMAINS.

VESSEL RELOCATION

- 1. THE D/B TEAM WILL COORDINATE WITH THE DINNER KEY MARINA MANAGEMENT TO IDENTIFY/NOTIFY VESSELS ANCHORED IN THE AREA OF THE MOORING FIELD THAT WILL INTERFERE WITH THE DEBRIS REMOVAL AND/OR REPAIRS PRIOR TO CONSTRUCTION.
2. IF THE FWC AND/OR MANAGEMENT ARE NOT ABLE TO HAVE THE VESSELS RELOCATED, THE D/B TEAM WILL TEMPORARILY RELOCATE THE VESSELS AS REQUIRED DURING CONSTRUCTION TO FACILITATE REPAIRS.

SHEET INDEX table with columns: SHEET REF #, INDEX #, SHEET TITLE. Rows include G-001 COVER SHEET, G-002 GENERAL NOTES (1 OF 2), G-003 GENERAL NOTES (2 OF 2), V-100 EXISTING CONDITIONS PLAN, V-101 EXISTING SLIP MIX (1 OF 2), V-102 EXISTING SLIP MIX (2 OF 2), V-401 EXISTING FINGER PIER FRAMING ELEVATIONS AND SECTIONS, V-402 EXISTING CONCRETE WALKWAY DECK SPAN PLAN AND SECTIONS, S-001 STRUCTURAL NOTES, S-100 STRUCTURAL SITE PLAN, S-101 HURRICANE RELATED PIER 1 REPAIR PLAN, S-102 HURRICANE RELATED PIER 2 REPAIR PLAN, S-103 HURRICANE RELATED PIER 3 REPAIR PLAN, S-104 HURRICANE RELATED PIER 4 REPAIR PLAN, S-105 HURRICANE RELATED PIER 5 REPAIR PLAN, S-106 HURRICANE RELATED PIER 6 REPAIR PLAN, S-107 HURRICANE RELATED PIER 7 REPAIR PLAN, S-108 HURRICANE RELATED PIER 8 REPAIR PLAN, S-109 HURRICANE RELATED PIER 9 REPAIR PLAN, S-121 ALTERNATIVE BID PIER 1 REPAIR PLAN, S-122 ALTERNATIVE BID PIER 2 REPAIR PLAN, S-123 ALTERNATIVE BID PIER 3 REPAIR PLAN, S-124 ALTERNATIVE BID PIER 4 REPAIR PLAN, S-125 ALTERNATIVE BID PIER 5 REPAIR PLAN, S-126 ALTERNATIVE BID PIER 6 REPAIR PLAN, S-127 ALTERNATIVE BID PIER 7 REPAIR PLAN, S-128 ALTERNATIVE BID PIER 8 REPAIR PLAN, S-129 ALTERNATIVE BID PIER 9 REPAIR PLAN, S-401 FINGER PIER SLIP LAYOUT, S-402 FINGER PIER REPLACEMENT ELEVATIONS AND SECTIONS, S-403 FINGER PIER REPAIR SECTIONS, S-410 CONCRETE WALKWAY DECK SPAN REPLACEMENT, S-411 CONCRETE WALKWAY REPAIRS, S-501 TIMBER DOCK DETAILS, S-502 CONCRETE REPAIR DETAILS, P-001 PLUMBING NOTES, P-101 PIER 1 PLUMBING PLAN, P-102 PIER 2 PLUMBING PLAN, P-103 PIER 3 PLUMBING PLAN, P-104 PIER 4 PLUMBING PLAN, P-105 PIER 5 PLUMBING PLAN, P-106 PIER 6 PLUMBING PLAN, P-107 PIER 7 PLUMBING PLAN, P-108 PIER 8 PLUMBING PLAN, P-109 PIER 9 PLUMBING PLAN, P-110 UPLAND PLUMBING PLAN, P-401 ENLARGED PLUMBING PLAN, P-501 PLUMBING DETAILS, E-001 ELECTRICAL NOTES, ABBREVIATIONS AND LEGEND, E-010 LANDSIDE ELECTRICAL PLAN (1 OF 2), E-011 LANDSIDE ELECTRICAL PLAN (2 OF 2), E-101 PIER 1 ELECTRICAL PLAN, E-102 PIER 2 ELECTRICAL PLAN, E-103 PIER 3 ELECTRICAL PLAN, E-104 PIER 4 ELECTRICAL PLAN, E-105 PIER 5 ELECTRICAL PLAN, E-106 PIER 6 ELECTRICAL PLAN, E-107 PIER 7 ELECTRICAL PLAN, E-108 PIER 8 ELECTRICAL PLAN, E-109 MARGINAL DOCK ELECTRICAL PLAN, E-501 PEDESTAL CONFIGURATIONS, E-601 AREA A SINGLE LINE DIAGRAM, E-602 AREA B SINGLE LINE DIAGRAM, E-603 AREA C SINGLE LINE DIAGRAM, E-604 AREA D SINGLE LINE DIAGRAM.



Table with columns: Date, Description, Mark

DINNER KEY MARINA DCP DRAWINGS GENERAL NOTES (1 OF 2)

Table with columns: Date, DATE, M&N Project No., 9450-08, Drawing code, Drawing Scale, Plot scale: 1:1 (D SHEET)

2937 SW 27th Ave, STE 101A COCONUT GROVE, FL 33133 305-230-1924 (FL EB 4877) moffett & nichol

SEAL

Sheet Reference No. G-002 INDEX: 2 OF 68

DCP DRAWINGS 24 OCTOBER 2018 NOT TO BE USED FOR CONSTRUCTION

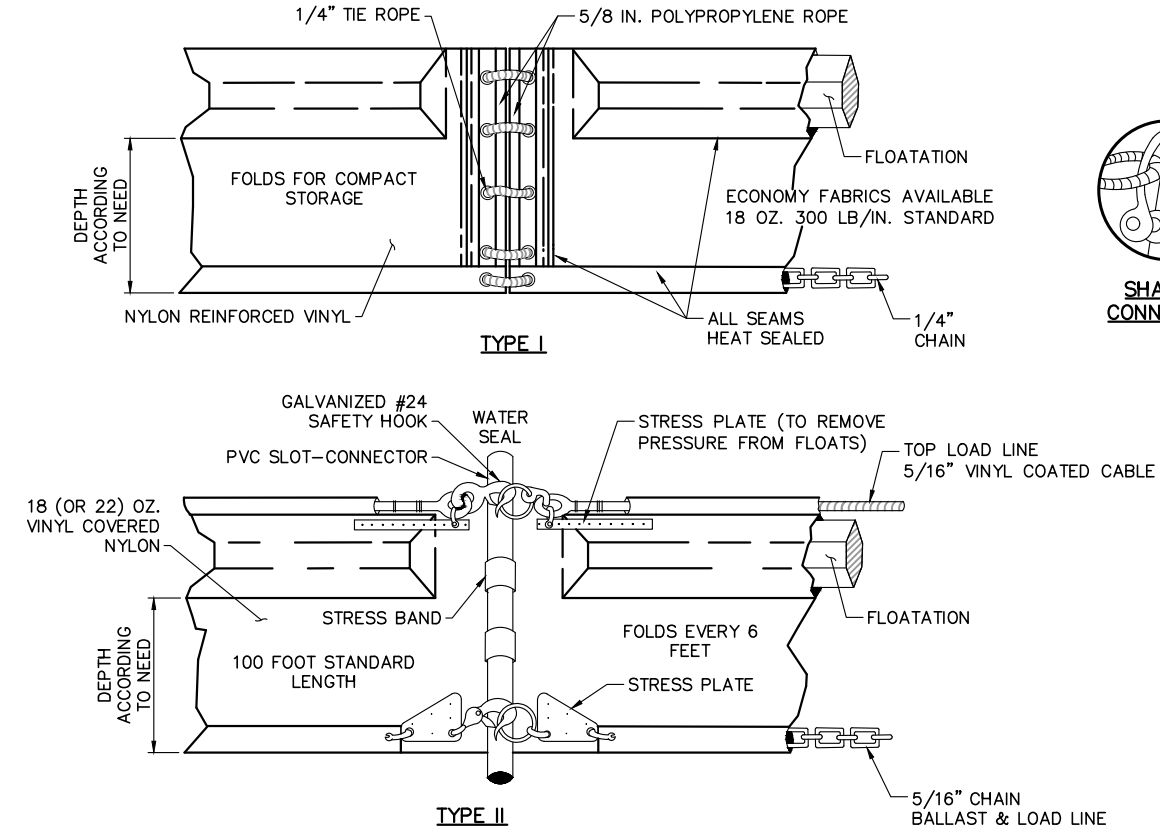
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ABBREVIATIONS

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MECH	MECHANICAL
AHJ	AUTHORITY HAVING JURISDICTION	MHW	MEAN HIGH WATER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MILS	THOUSANDS OF AN INCH
APPROX	APPROXIMATE	MIN	MINIMUM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MISC	MISCELLANEOUS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MLW	MEAN LOW WATER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MLLW	MEAN LOWER LOW WATER
AWS	AMERICAN WELDING SOCIETY	MSL	MEAN SEA LEVEL
B	BASELINE	MTL	MEAN TIDE LEVEL
BKHD	BULKHEAD	N	NORTH
BLDG	BUILDING	NAD	NORTH AMERICAN DATUM
B	BEAM OR VESSEL WIDTH	NAVD	NORTH AMERICAN VERTICAL DATUM
BOTT	BOTTOM	NEC	NATIONAL ELECTRICAL CODE
B.O.C.	BOTTOM OF CONCRETE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CF	CUBIC FEET	NIC	NOT IN CONTRACT
⊕	CENTERLINE	NO.	NUMBER
CLR	CLEAR	NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
COMM	COMMUNICATIONS	NOS	NATIONAL OCEAN SERVICE
COMP	COMPOSITE	NTS	NOT TO SCALE
CONC	CONCRETE	O	OUTFALL
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OD	OUTSIDE DIAMETER
CON'T	CONTINUED	PI	POINT OF INTERSECTION
CTS	CENTERS	PT	POINT OF TANGENCY
CVR	COVER	PL	PLATE
CY	CUBIC YARDS	PROP	PROPOSED
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DEG	DEGREE	PSI	POUNDS PER SQUARE INCH
DERM	DIVISION OF ENVIRONMENTAL RESOURCES MANAGEMENT	PVC	POLYVINYL CHLORIDE
DET	DETAIL	PW	POTABLE WATER
DIA	DIAMETER	QTY	QUANTITY
DN	DOWN	R	RADIUS
DWG	DRAWING	REV	REVISION
E	EAST	REQD	REQUIRED
EA	EACH	RT	RIGHT
EF	EACH FACE	S	SOUTH
EL/ELEV	ELEVATION	SCH	SCHEDULE
EMBED	EMBEDMENT	SF	SQUARE FOOT
ETC	ET CETERA	SHT	SHEET
EQ	EQUAL	SNL	SOLAR NAVIGATION LIGHT
EW	EACH WAY	SPA	SPACES
EXIST	EXISTING	SQ	SQUARE
EXP	EXPANSION	SS	STAINLESS STEEL
F	FAHRENHEIT	STA	STATION
FC	FIELD CONNECTION	STD	STANDARD
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	STL	STEEL
FPS	FEET PER SECOND	SWM	STORM WATER MANAGEMENT
FT	FEET	T	TON (2,000 LB)
GALV	GALVANIZED	TBR	TO BE REMOVED
GMAW	GAS METAL ARC WELDING	THK	THICK
GR	GRADE	TOS	TOP OF STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
IN	INCHES	UFC	UNIFIED FACILITIES CRITERIA
INC	INCORPORATED	UHMW	ULTRA HIGH MOLECULAR WEIGHT
INFO	INFORMATION	UON	UNLESS OTHERWISE NOTED
INV	INVERT ELEVATION	U/G	UNDERGROUND
JT	JOINT	VERT	VERTICAL
KIP	1000 LB	VLF	VERTICAL LINEAR FEET
KSI	KIPS PER SQUARE INCH	VPP	VESSEL POWER POINT
L	ANGLE	W	WEST
LB	POUND	W/	WITH
LF	LINEAR FEET	WP	WORK POINT
LG	LONG	'	SECONDS OR INCH
LOA	LENGTH OVERALL	'	MINUTES OR FEET
LT	LEFT	#	SQUARE
MAX	MAXIMUM	%	NUMBER OR POUNDS
		&	PERCENT
		⊕	AND
		⊙	AT
		∅	DIAMETER
		°	DEGREES

TURBIDITY CONTROL MONITORING NOTES

- BEST MANAGEMENT PRACTICES FOR TURBIDITY CONTROL SHALL BE IMPLEMENTED BY THE D/B TEAM IN ACCORDANCE WITH THE ENVIRONMENTAL PERMIT CONDITIONS.
- FLOATING TURBIDITY CURTAINS SHALL BE DEPLOYED IMMEDIATELY AROUND THE EMBEDMENT ANCHOR INSTALLATION AND BE MAINTAINED TO ENSURE TURBIDITY LEVELS OUTSIDE THE CONSTRUCTION AREA DO NOT DEGRADE AMBIENT WATER QUALITY. CURTAINS SHALL BE MAINTAINED TO AVOID MANATEE ENTRAPMENT.
- TURBIDITY LEVELS IN WATER COLUMN SHALL BE MONITORED IN ACCORDANCE WITH THE PERMITS. IF TURBIDITY LEVES EXCEED AMBIENT WATER QUALITY LEVELS, D/B TEAM SHALL FOLLOW PROCEDURES OUTLINED IN FDEP PERMIT CONDITIONS.
- D/B TEAM SHALL COMPILER AND DISTRIBUTE TURBIDITY MONITORING REPORTS TO OWNER AND TO THE AGENCIES, AS REQUIRED IN THE ENVIRONMENTAL PERMITS.



Appr.	
Date	
Description	
Mark	

DINNER KEY MARINA
DCP DRAWINGS

GENERAL NOTES (2 OF 2)

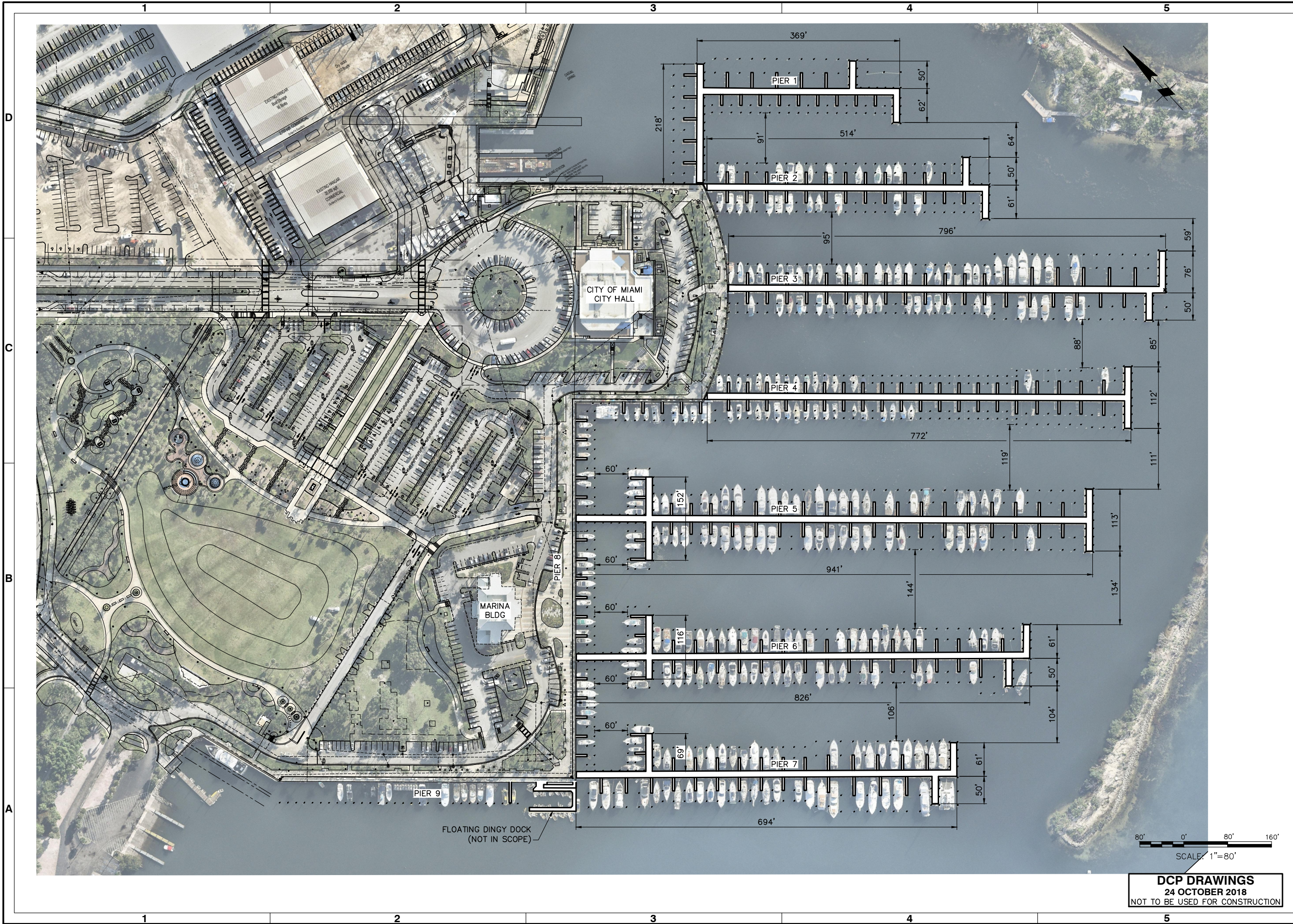
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Date	DATE
Desgn	M&N Project No. 9450-08
Dwn by	CHKR
Reviewed by	REVLR
Submitted by	TIM BLANKENSHIP MGF/AT & NICHOL
Drawing Scale	Plot scale: 1:1 (D SHEET)

2837 SW 27th Ave. STE. 101A
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DCP DRAWINGS
24 OCTOBER 2018
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Sheet Reference No.
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INDEX: 3 OF 68



Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

EXISTING CONDITIONS PLAN

Designed by: DSGN	Checked by: CHKR	Reviewed by: REVR	Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL
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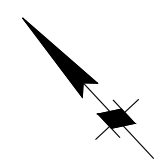
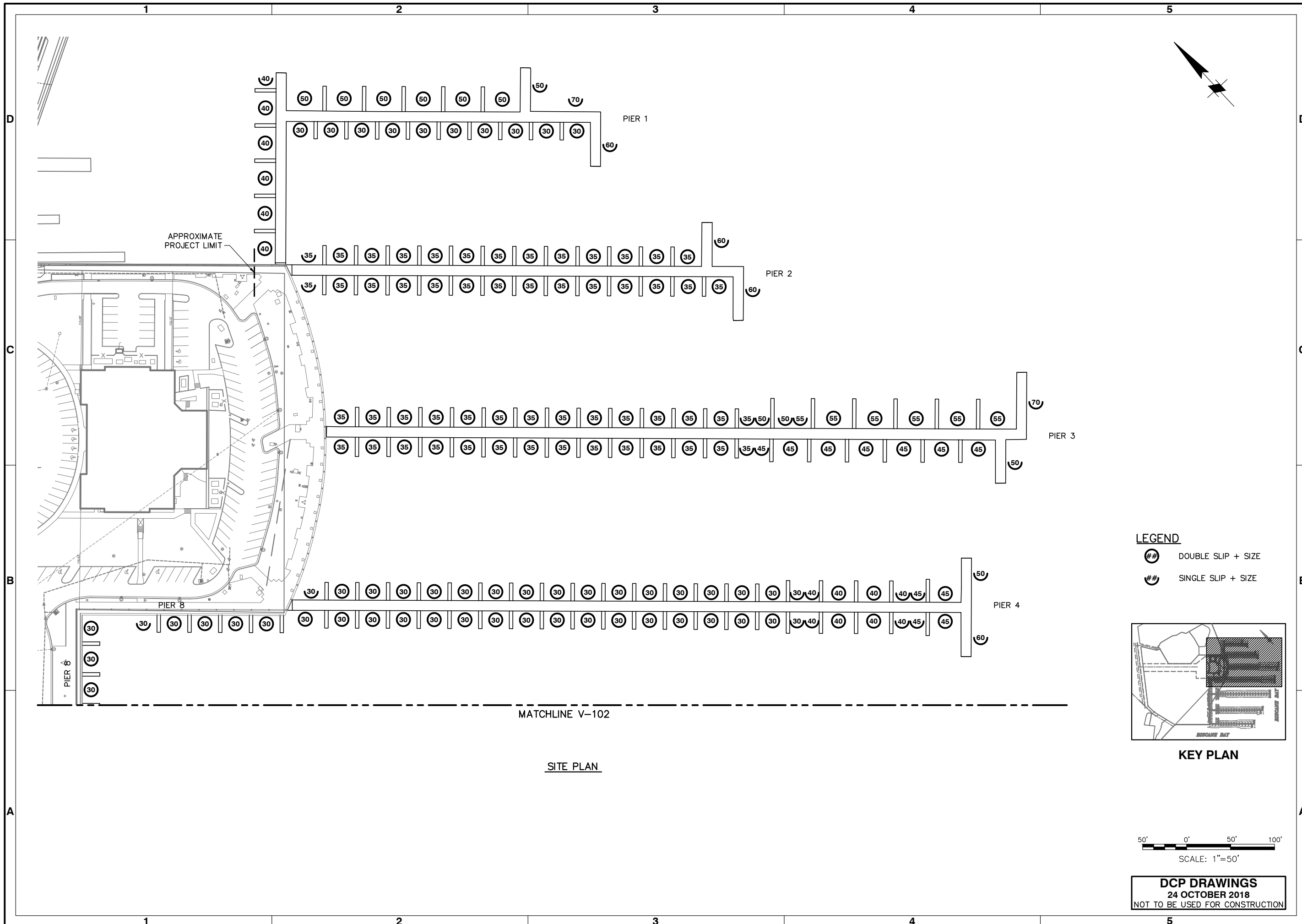
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COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

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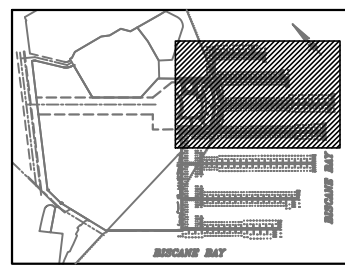
Sheet Reference No.
V-100
INDEX: 4 OF 68

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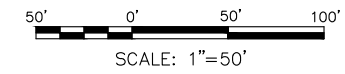
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- LEGEND**
- \bigcirc # DOUBLE SLIP + SIZE
 - \bigcirc # SINGLE SLIP + SIZE

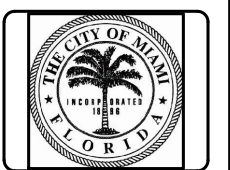


KEY PLAN



SCALE: 1" = 50'

DCP DRAWINGS
24 OCTOBER 2018
 NOT TO BE USED FOR CONSTRUCTION



Rev.	DATE	DESCRIPTION

DINNER KEY MARINA
 DCP DRAWINGS
 EXISTING SLIP MIX
 (1 OF 2)

Date:	DESIGN:	CHKD BY:	REVIEWED BY:	DATE:	REVNO:
	DFT	CHKR	REVR		
M&N Project No.: 9450-08 Drawing code:			Drawing Scale: Plot scale: 1:1 (0 SHEET)		

2937 SW 27th AVE, STE 101A
 COCONUT GROVE, FL 33133
 305-230-1924
 (FL EB 4877)

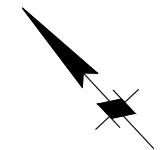


Submitted by:
 TIM BLANKENSHIP
 MOFFATT & NICHOL

Sheet Reference No.
V-101
 INDEX: 5 OF 68

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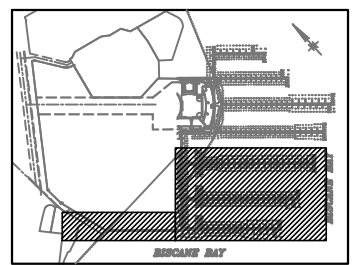
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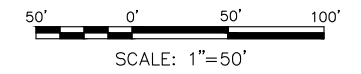
SITE PLAN

LEGEND

- # # DOUBLE SLIP + SIZE
SINGLE SLIP + SIZE



KEY PLAN



DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

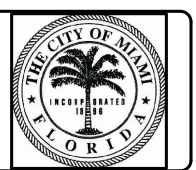


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DINNER KEY MARINA
DCP DRAWINGS
EXISTING SLIP MIX
(2 OF 2)

Table with columns for Date, Rev. No., Date, M&N Project No., Dwn by, Chk by, DFT, DREV, Drawing code, Drawing Scale, and Plot scale.

Project address: 2937 SW 27th Ave, Ste 101A, Coconut Grove, FL 33133. Includes logo for moffatt & nichol (FL EB 4877).

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



Appr.	Date
Description	Mark

**DINNER KEY MARINA
DCP DRAWINGS**

**EXISTING FINGER PIER FRAMING
ELEVATIONS AND SECTIONS**

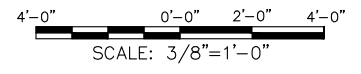
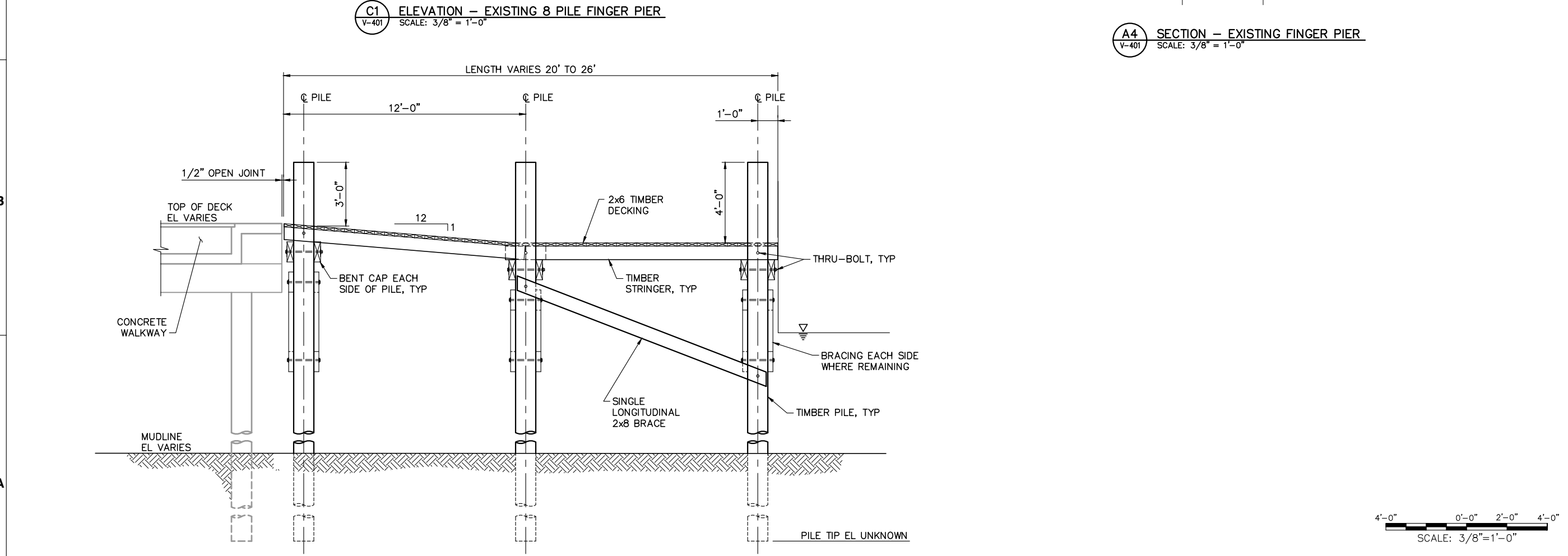
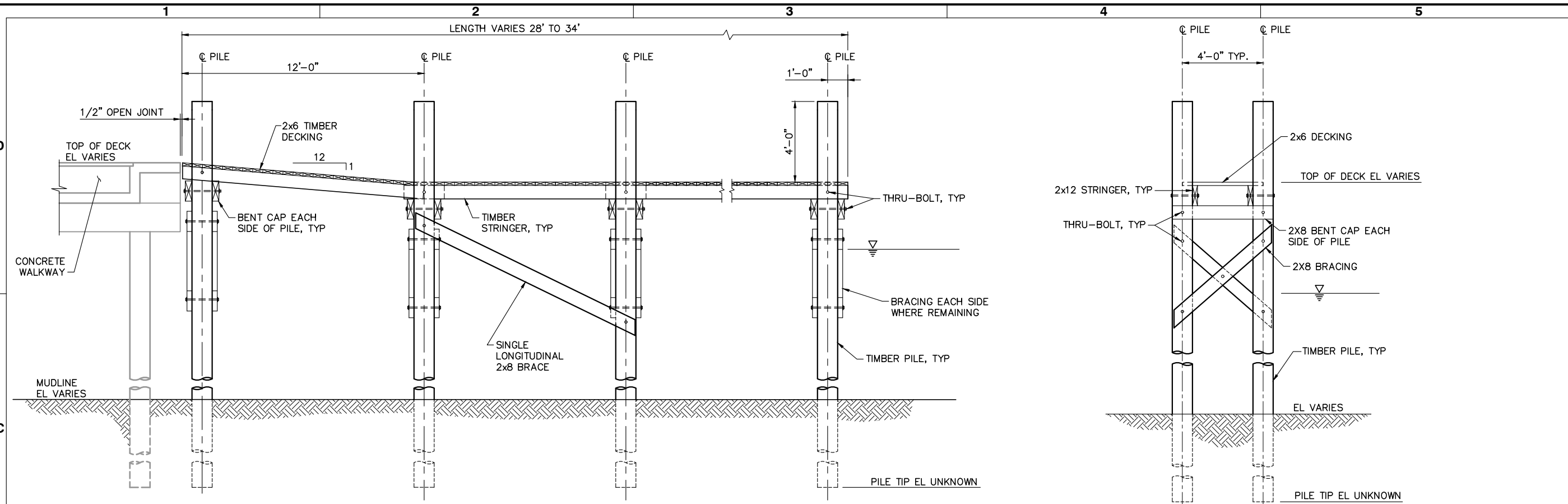
Rev.	Rev. No.	Date	DATE

Des. by:	Chk. by:	Rev. by:	Submitted by:
DSGN	CHKR	REVR	TIM BLANKENSHIP MOFFATT & NICHOI

Project No.	Drawing Code	Drawing Scale	Plot Scale
9450-08			1:1 (D SHEET)

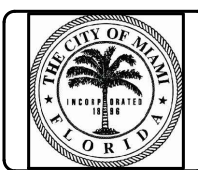
2937 SW 27th AVE STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

Sheet Reference No.
V-401
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DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



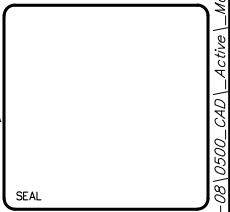
Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

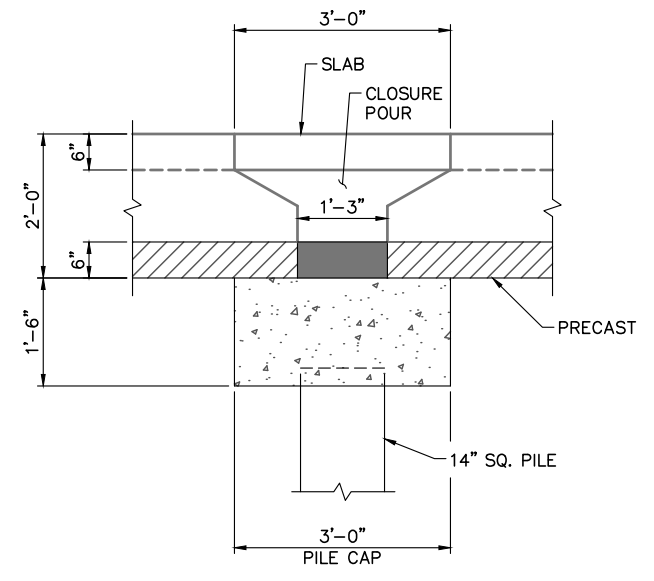
**EXISTING CONCRETE WALKWAY
DECK SPAN PLAN AND SECTIONS**

Designed by:	DATE:	REV.	REVNO
D5GN	M&N Project No. 9450-08		
Dwn by:	CHKR	Drawing code:	Drawing Scale:
DRFT			Pick scale: 1:1 (D SHEET)
Reviewed by:	REVR	Submitted by:	TIM BLANKENSHIP
		MOFFATT & NICHOI	

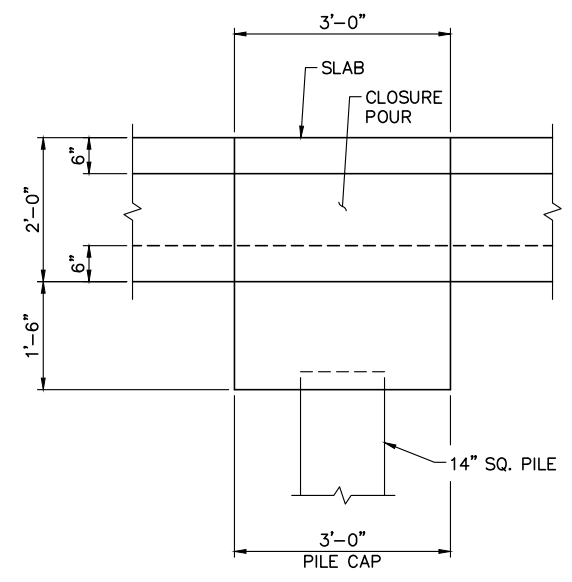
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COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)



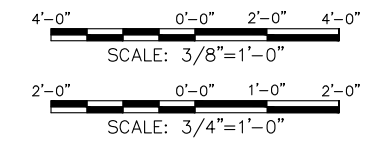
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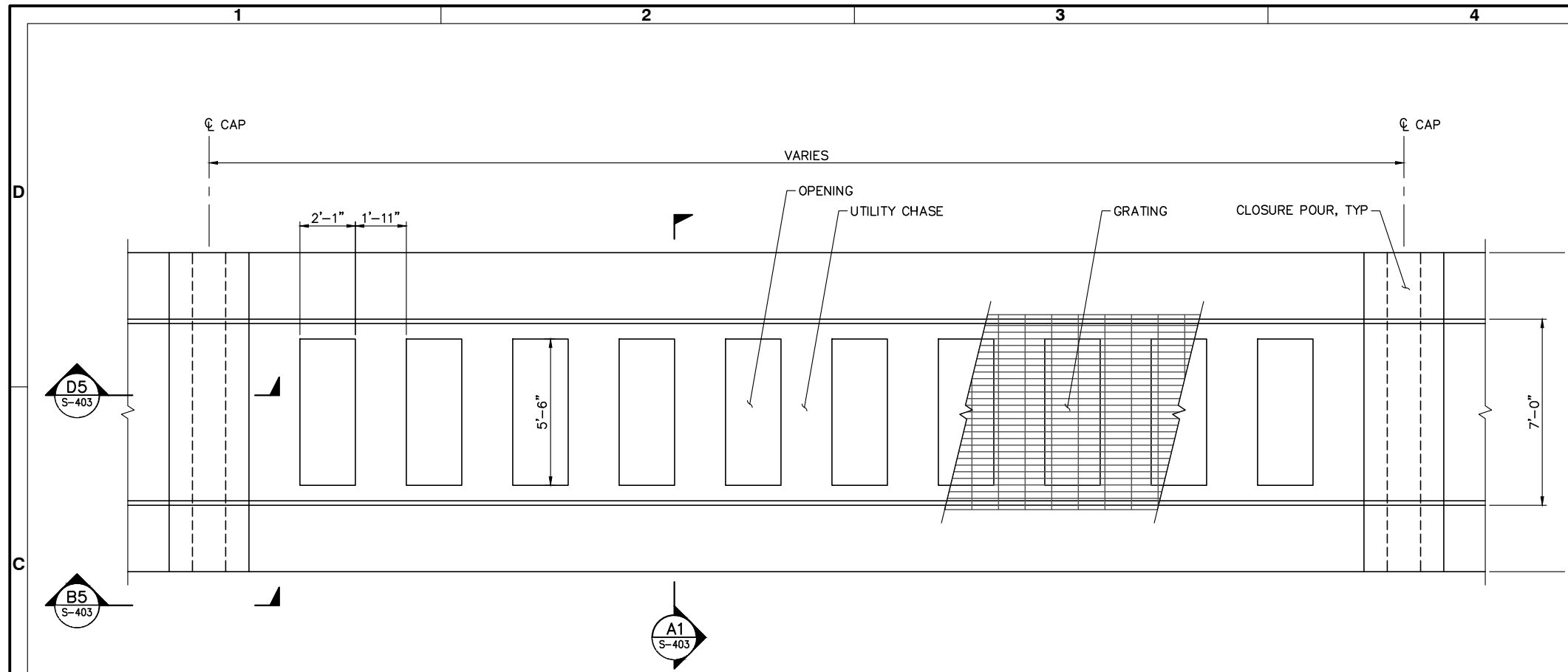
D5 SECTION - EXISTING PILE CAP
SCALE: 3/4" = 1'-0"



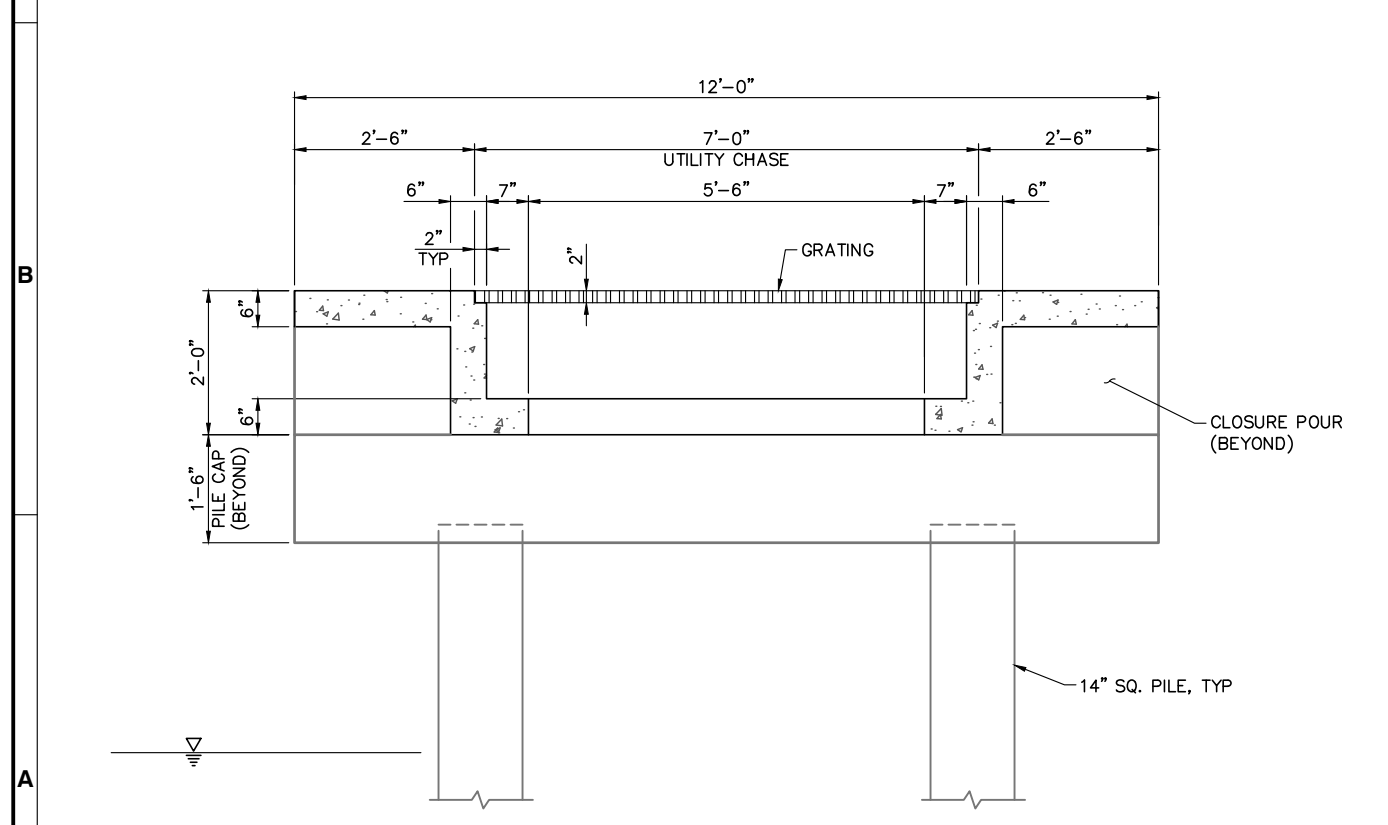
B5 SECTION - EXISTING PILE CAP
SCALE: 3/4" = 1'-0"



DCP DRAWINGS
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C1 PLAN - EXISTING MAIN PIER
SCALE: 3/8" = 1'-0"



A1 SECTION - EXISTING CONCRETE WALKWAY
SCALE: 3/4" = 1'-0"

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL REINFORCED CONCRETE MATERIALS SHALL BE PROPORTIONED, FABRICATED, DELIVERED, AND PLACED IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
2. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF THE "ACI MANUAL OF CONCRETE PRACTICE" INCLUDING BUT NOT LIMITED TO: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI SP-66 "ACI DETAILING MANUAL".
3. ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318, CHAPTER 12, UNLESS OTHERWISE NOTED.
4. ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (145± PCF).
5. MINIMUM CONCRETE COVER FOR STEEL REINFORCEMENT SHALL BE 3", UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. PROVIDE 3/4", 45° CHAMFER ON ALL EXPOSED EXTERNAL CORNERS OF CONCRETE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
7. ALL JOINTS BETWEEN CAST-IN-PLACE CONCRETE AND HARDENED CONCRETE SHALL BE CLEANED WITH A ROUGHENED SURFACE OF 1/4" AMPLITUDE AND COATED A EPOXY BONDING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED.
8. CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - A. CAST-IN-PLACE CONCRETE. 5500 PSI @ 28 DAYS (MIN FDOT CLASS IV)
 - B. PRESTRESSED CONCRETE PILES. 6000 PSI @ 28 DAYS
4000 PSI @ RELEASE
 - C. PRESTRESSED CONCRETE BEAMS. 8000 PSI @ 28 DAYS
9. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A 615. CONCRETE REINFORCING MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - A. REINFORCEMENT FOR CONCRETE. ASTM A 615, GR 60
 - B. PRESTRESSING STEEL. ASTM A 416, GRADE 270
(LOW RELAXATION STRANDS)
10. CURE CONCRETE USING CONTINUOUS MOISTURE AND/OR MEMBRANE CURING COMPOUND IN ACCORDANCE WITH FDOT SPECIFICATION 400-16.1 AND 400-16.2

REPAIR NOTES

1. REINFORCING IN THE REPAIR AREAS SHALL BE PROVIDED WITH A MINIMUM OF 3 INCHES CONCRETE COVER TO MATCH EXISTING UNLESS OTHERWISE NOTED.
2. CONCRETE REPAIRS CONSIST OF SMALL PATCH REPAIRS AND PARTIAL DEPTH REPLACEMENT OF DECK, PILE CAPS, AND PILE ENCASEMENTS. NO DISTINCTION IS MADE BETWEEN SPALLS AND DELAMINATIONS SINCE REPAIRS ARE THE SAME.
3. REMOVE DELAMINATED OR DETERIORATED CONCRETE UNTIL SOUND CONCRETE IS ENCOUNTERED. CHIPPED OUT AREA SHALL EXTEND AN ADDITIONAL 2" ALL AROUND.
4. CHECK SURFACES TO ENSURE THEY ARE FREE FROM LOOSE AGGREGATE OR ADDITIONAL DELAMINATIONS.
5. CHIPPED OUT AREA SHALL BE NOT LESS THAN 1" CLEAR AROUND ALL EXPOSED REINFORCING BARS.
6. EDGES OF THE CHIPPED OUT AREA SHALL BE SAWCUT PERPENDICULAR TO THE CONCRETE SURFACE FOR A MINIMUM DEPTH OF 1". DO NOT SAWCUT THROUGH EXISTING REINFORCING BARS. SAWCUT SHALL NOT EXTEND BEYOND CHIPPED OUT AREA.
7. EXPOSED REINFORCING BARS SHALL BE CLEANED OF SCALE, RUST, DIRT, OIL, AND OTHER DELETERIOUS MATERIALS.
8. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
9. WELDING OF REINFORCING BARS SHALL CONFORM TO AWS D1.4. WELDING OF STAINLESS STEEL MATERIAL SHALL CONFORM TO AWS D1.6. E70XX LOW-HYDROGEN ELECTRODES SHALL BE USED IN WELDING GRADE A-706 BARS.
10. SPLICES SHALL BE STAGGERED BY LENGTH OF SPLICE OR 6" MINIMUM, WITH NO MORE THAN 50% OF THE BARS BEING SPLICED AT ANY ONE LOCATION.
11. IN DECK AND PILE CAP REPAIRS, DISCRETE GALVANIC ANODES TO BE PLACED NEAR PERIMETER OF REPAIR AREA.
12. DISCRETE GALVANIC ANODES TO BE DIRECTLY CONNECTED TO TOP OR BOTTOM LAYERS OF REINFORCEMENT PER ACI RAP-8.
13. FORMS SHALL BE WATER TIGHT.
14. DO NOT FEATHER EDGES OF REPAIR.
15. AT INTERFACES BETWEEN EXISTING AND NEW CONCRETE, ROUGHEN EXISTING SURFACE TO 1/4" AMPLITUDE MINIMUM.
16. DEDICATED STAINLESS STEEL TOOLS SHALL BE USED FOR STAINLESS STEEL MATERIAL TO AVOID CONTAMINATION OF DISSIMILAR MATERIAL.

TIMBER CONSTRUCTION:

1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
2. TIMBER PILES SHALL BE DRIVEN TO THE TIP ELEVATION INDICATED ON THE D/B TEAM DRAWINGS AND GEOTECHNICAL CRITERIA, USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF THE SUBSURFACE MATERIAL TO BE ENCOUNTERED.
3. SPUDDING AND/OR JETTING OF TIMBER PILES SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.
4. TIMBER PILES SHALL BE TREATED IN ACCORDANCE WITH AWPA MP-1 FOR TIMBER IN SALTWATER IMMERSION. PRESERVATIVE RETENTION SHALL BE 2.5 PCF. CCA PRESERVATIVE RETENTION OF 2.50 PCF IS ALLOWED ONLY IN MEMBERS SUBJECT TO SALT WATER IMMERSION.
5. ALL OTHER TIMBER MATERIALS SHALL BE TREATED IN ACCORDANCE WITH AWPA U1 FOR TIMBER EXPOSED TO THE MARINE ENVIRONMENT. THE FOLLOWING ITEMS SHALL BE PROVIDED WITH TREATMENT AS INDICATED:

A. DECKING	MCQ TREATMENT @ 0.60 PCF
B. TIMBER BENT CAPS	CCA 0.6 PCF
C. TIMBER STRINGERS	CCA 0.6 PCF
D. CROSS-BRACING	CCA 2.5 PCF
6. TIMBER RELATED MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - A. TIMBER PILES ASTM D 25-99
 - B. TIMBER BENT CAPS SP NO. 1 DENSE (S4S)
 - C. TIMBER STRINGERS SP NO. 1 DENSE (S4S)
 - D. MISC TIMBER SP NO. 1 DENSE (S4S)
 - E. CONNECTING BOLTS & NUTS ASTM 316, STAINLESS STEEL, UON
7. WASHERS SHALL BE CIRCULAR FLAT SMOOTH AND SHALL CONFORM TO ANSI B18.22.1. USE DOCK WASHERS OR OGEE WASHERS WHERE INDICATED OR REQUIRED.
8. CHECK ALL BOLTS BY BURRING THE THREADS AFTER THE NUTS HAVE BEEN FINALLY TIGHTENED. RECOAT EXPOSED PORTION OF BOLT WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT.
9. BORE HOLES FOR THRU BOLTS WITH A BIT 1/16 INCH LARGER IN DIAMETER THAN THE SHANK OF THE BOLT.
10. TIMBER PILES SHALL BE WRAPPED WITH HDPE OR PVC BLACK PILE WRAP WITH A MINIMUM 6 INCHES OVERLAP. PILE WRAP SHALL EXTEND FROM BOTTOM OF PILE CAP TO A MINIMUM OF 2 FEET BELOW THE MUDLINE. INSTALL USING 1-1/2 INCH STAINLESS STEEL SPIRAL-SHANK ROOFING NAILS SPACED AT 2 INCHES ON CENTER ALONG SEAM.

HARDWARE NOTES:

1. ALL BOLTS AND HARDWARE SHALL BE HDG STEEL PER ASTM A153 FOR MARINE APPLICATIONS UON.
2. ALUMINUM LADDERS SHALL BE INTERNATIONAL DOCK PRODUCTS OR EQUIVALENT, 6 STEPS.
3. ALL CLEATS SHALL BE ALUMINUM ALMAG "S" OR EQUIVALENT, SIZE 15-INCH.
4. MISCELLANEOUS METALS, BARS, STRAPS, STRUCTURAL SHAPES AND OTHER CONNECTION HARDWARE SHALL BE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.



Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

STRUCTURAL NOTES

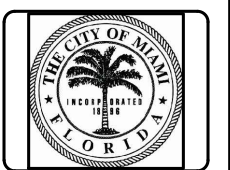
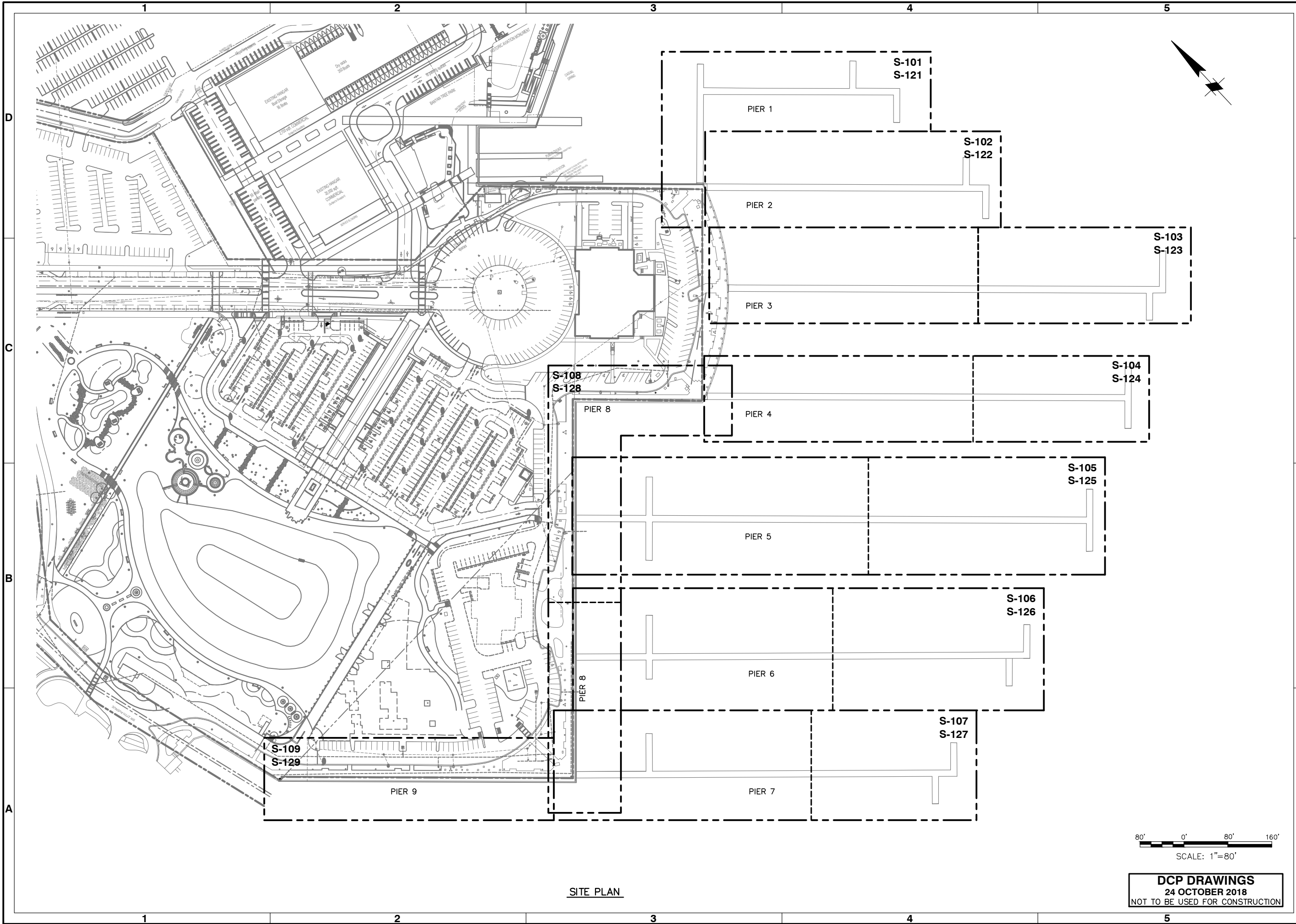
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Drawn by:	DRFT	Checked by:	CHKR
Reviewed by:	REVR	Drawing code:	
Submitted by:	TIM BLANKENSHIP MOFFATT & NICHOL	Drawing Scale:	
Plot scale: 1:1 (D SHEET)			

2937 SW 27th AVE, STE 101A
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305-230-1924
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DINNER KEY MARINA
DCP DRAWINGS

STRUCTURAL SITE PLAN

Designed by: DSGN	DATE	Rev. / RevNO
Dwn by: DRFT	M&N Project No. 9450-08	DATE
Reviewed by: REVR	CHKR	Drawing code:
Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL	DRFT	Drawing Scale: Plot scale: 1" (D SHEET)

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 COCONUT GROVE, FL 33133
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moffatt & nichol

SEAL

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

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Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

**HURRICANE RELATED PIER 2
REPAIR PLAN**

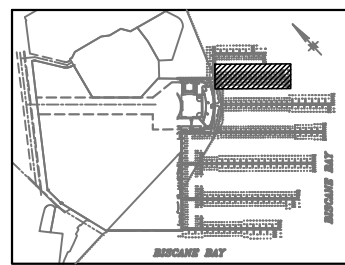
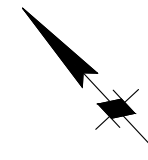
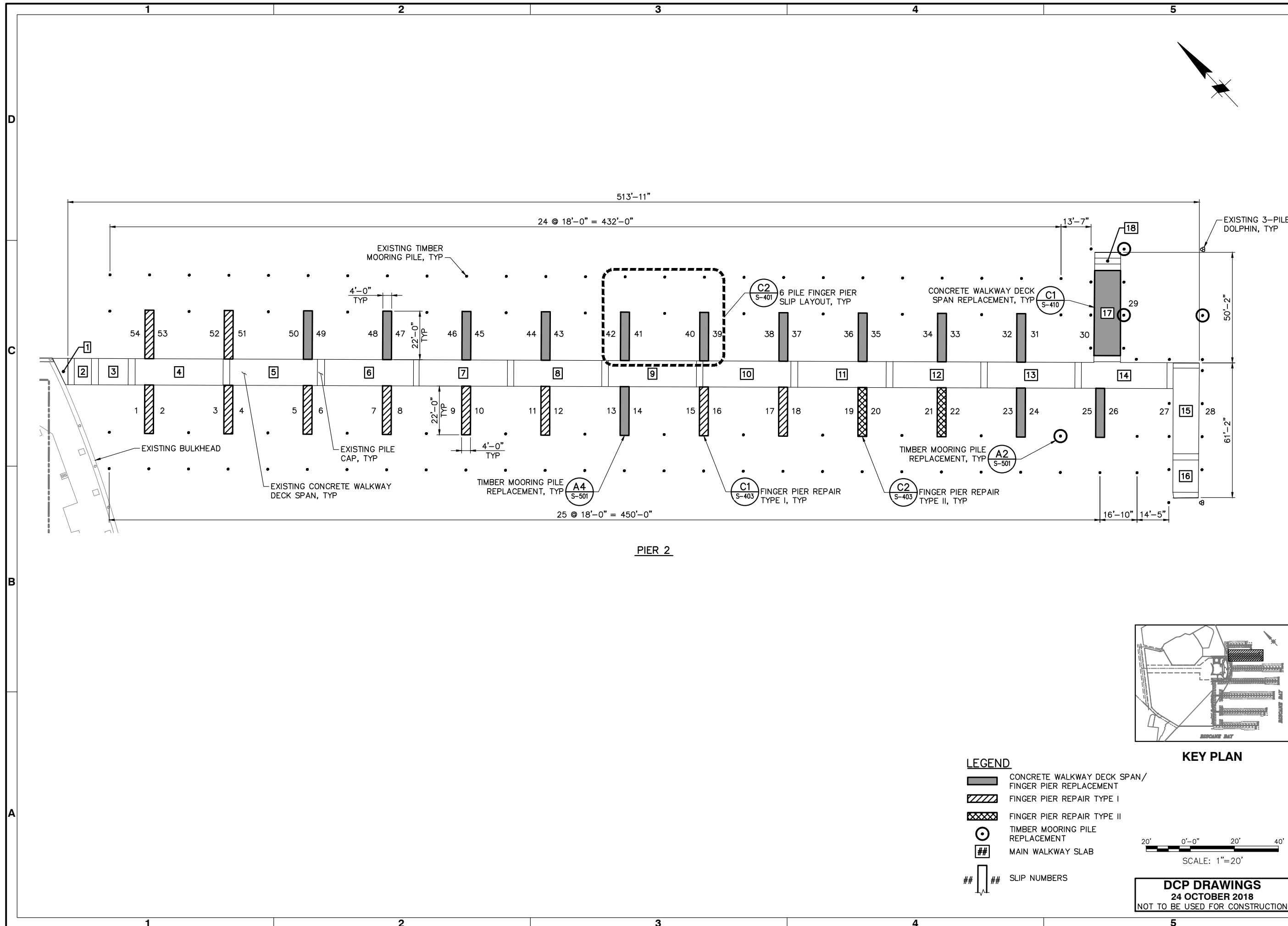
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COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

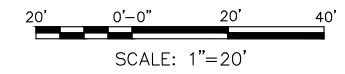
moffatt & nichol

SEAL

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- LEGEND**
- CONCRETE WALKWAY DECK SPAN/
FINGER PIER REPLACEMENT
 - FINGER PIER REPAIR TYPE I
 - FINGER PIER REPAIR TYPE II
 - TIMBER MOORING PILE
REPLACEMENT
 - MAIN WALKWAY SLAB
 - SLIP NUMBERS



DCP DRAWINGS
24 OCTOBER 2018
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

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**DINNER KEY MARINA
DCP DRAWINGS**

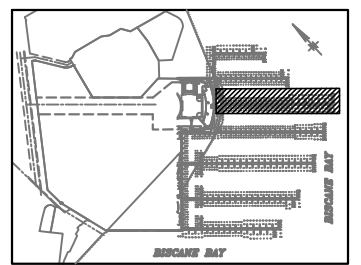
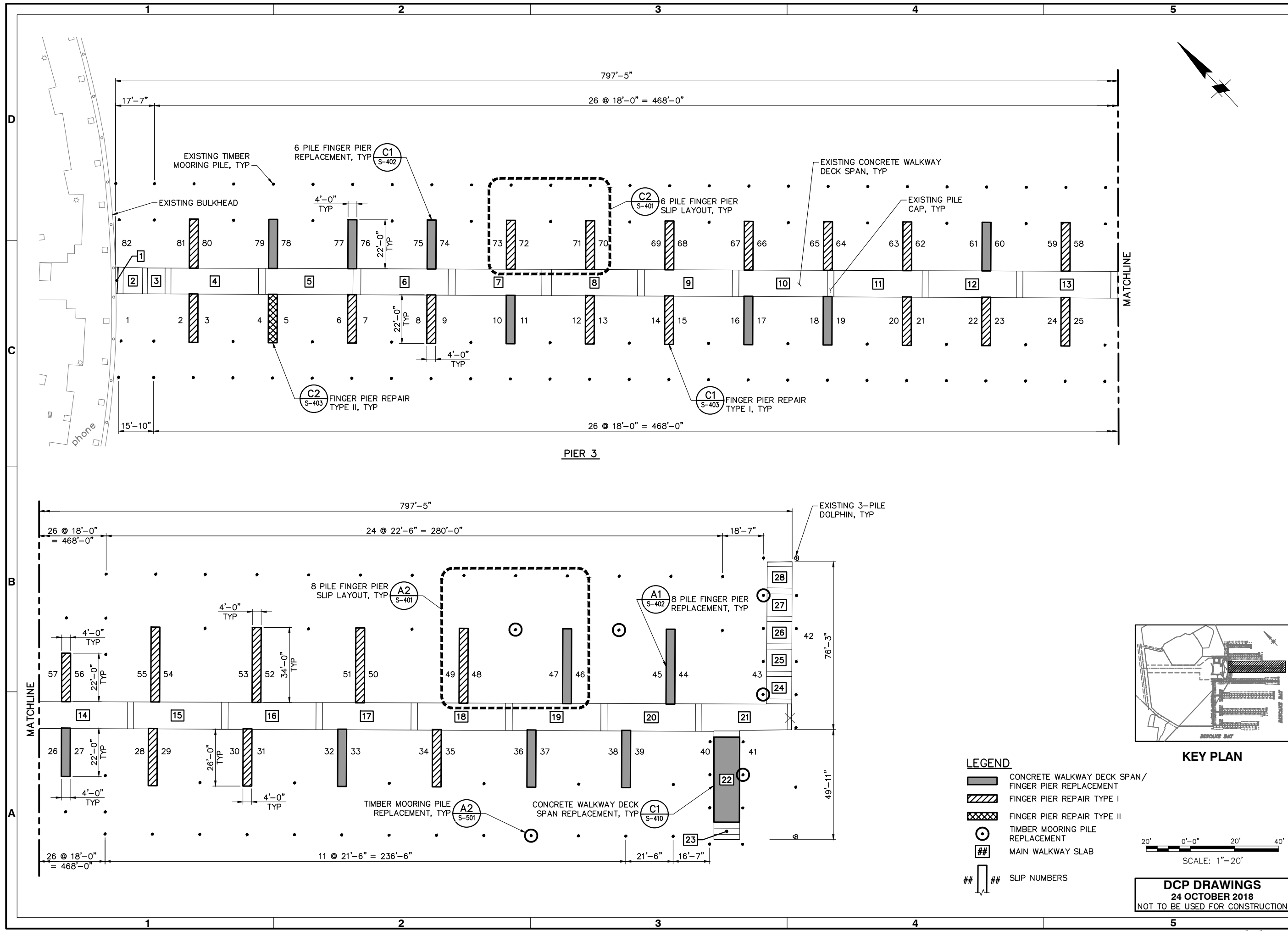
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DATE: 	M&N PROJECT NO: 9450-08	DRAWING CODE: 	DRAWING SCALE: 	PLOT SCALE: 1" = 20'

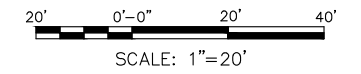
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COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

SEAL

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- LEGEND**
- CONCRETE WALKWAY DECK SPAN / FINGER PIER REPLACEMENT
 - FINGER PIER REPAIR TYPE I
 - FINGER PIER REPAIR TYPE II
 - TIMBER MOORING PILE REPLACEMENT
 - MAIN WALKWAY SLAB
 - SLIP NUMBERS



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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



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**DINNER KEY MARINA
DCP DRAWINGS**

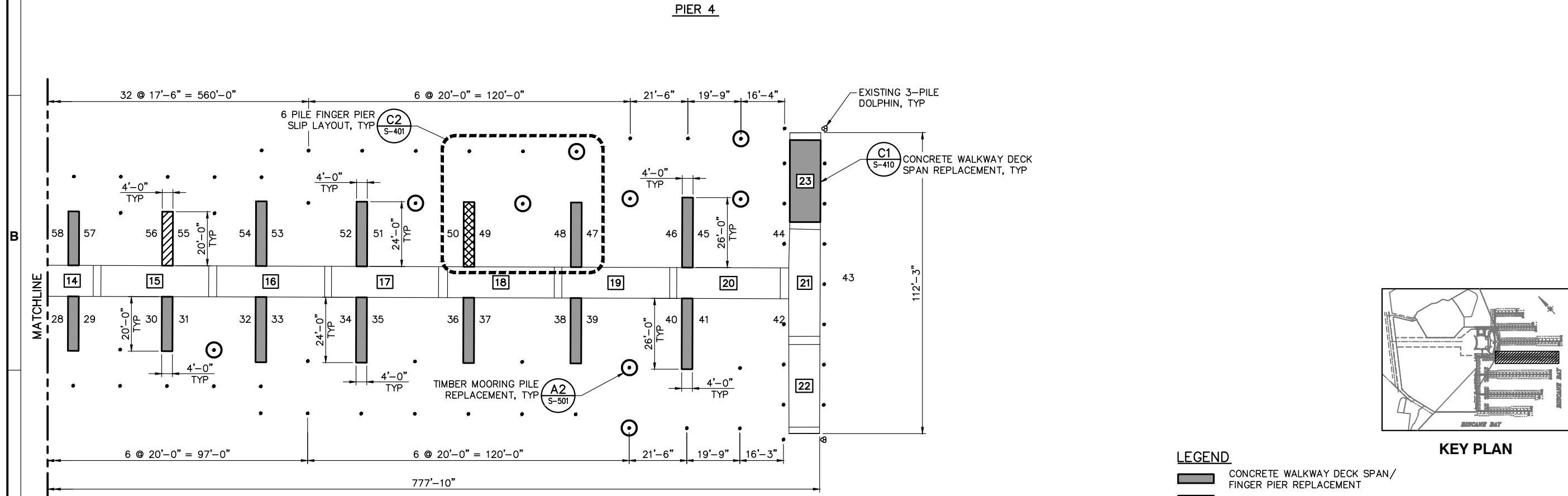
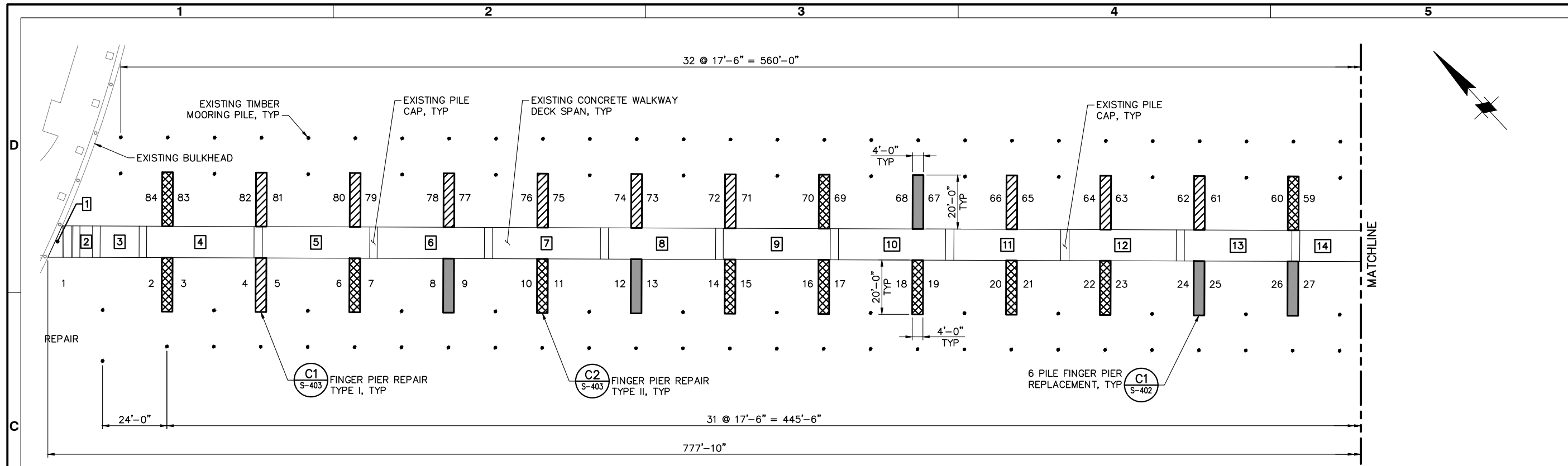
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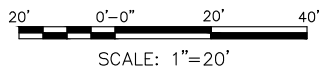
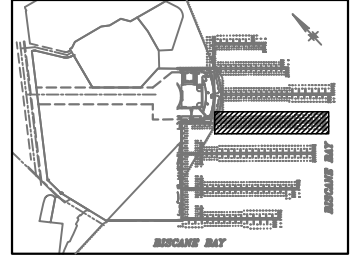
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305-230-1924
(FL EB 4877)

DESIGNED BY: DSGN	DRAWN BY: DRFT	CHECKED BY: CHKR	REVIEWED BY: REVR	SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOL
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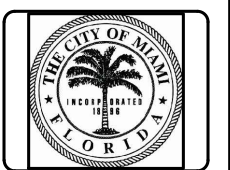
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- LEGEND**
- CONCRETE WALKWAY DECK SPAN/
FINGER PIER REPLACEMENT
 - FINGER PIER REPAIR TYPE I
 - FINGER PIER REPAIR TYPE II
 - TIMBER MOORING PILE
REPLACEMENT
 - MAIN WALKWAY SLAB
 - SLIP NUMBERS



DCP DRAWINGS
24 OCTOBER 2018
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**DINNER KEY MARINA
DCP DRAWINGS**

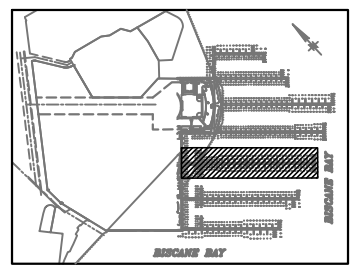
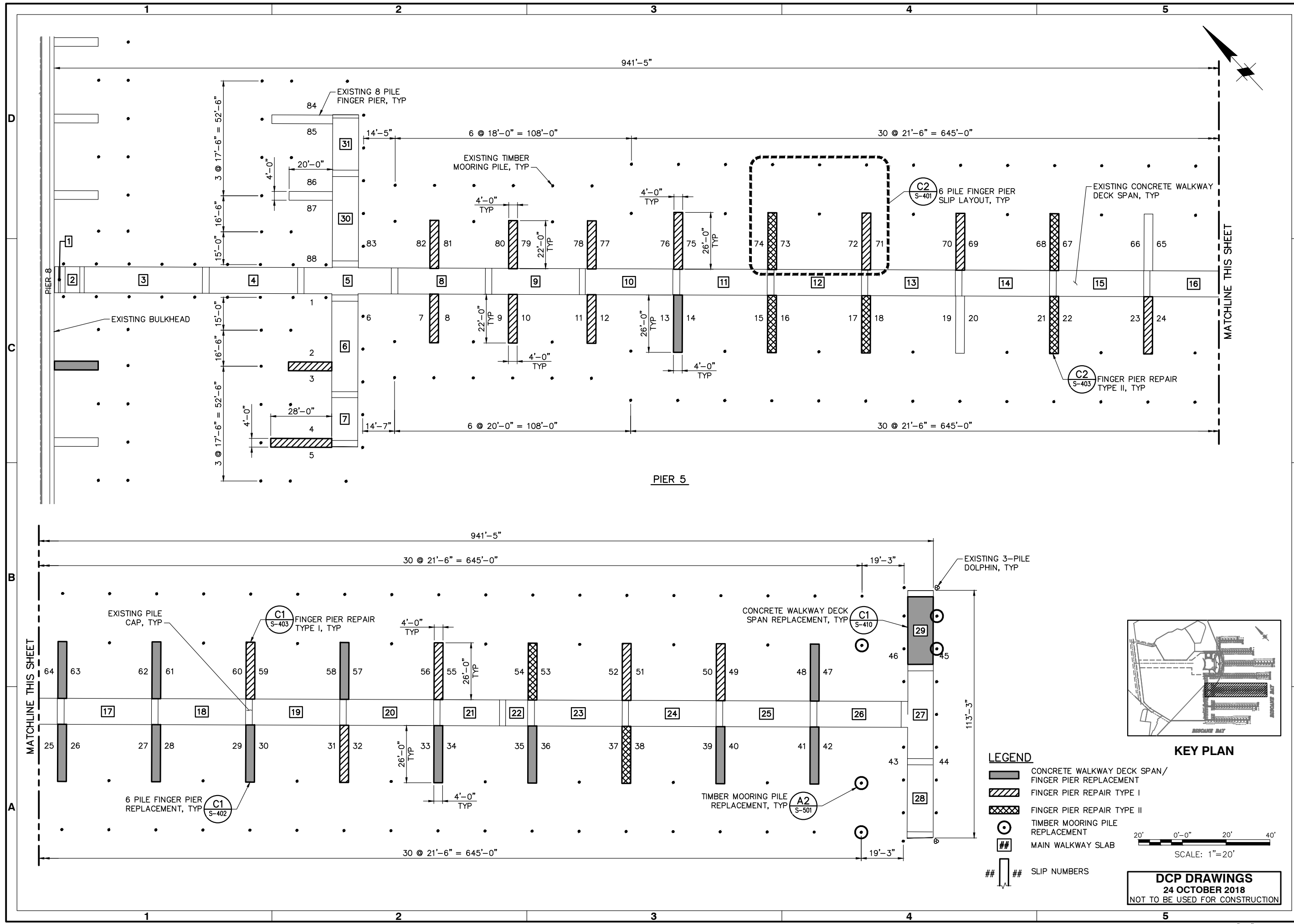
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DRAWN BY: DRFT	M&N PROJECT NO: 9450-08	DATE:
CHECKED BY: CHKR	DRAWING CODE:	DATE:
REVIEWED BY: REVR	DRAWING SCALE:	DATE:
SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOL	PILOT SCALE: 1:1 (D SHEET)	DATE:

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

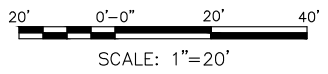
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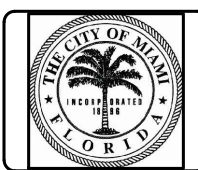


LEGEND

- CONCRETE WALKWAY DECK SPAN/
FINGER PIER REPLACEMENT
- FINGER PIER REPAIR TYPE I
- FINGER PIER REPAIR TYPE II
- TIMBER MOORING PILE
REPLACEMENT
- MAIN WALKWAY SLAB
- SLIP NUMBERS



DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION



Rev.	DATE	DESCRIPTION

**DINNER KEY MARINA
DCP DRAWINGS**

**HURRICANE RELATED PIER 6
REPAIR PLAN**

DATE	DATE	DATE	DATE

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

moffatt & nichol

Submitted by:
TIM BLANKENSHIP
MOFFATT & NICHOL

Reviewed by:
REVR

Designed by:
DSSN

Dwn by:
DRFT

Chk by:
CHKR

M&N Project No:
9450-08

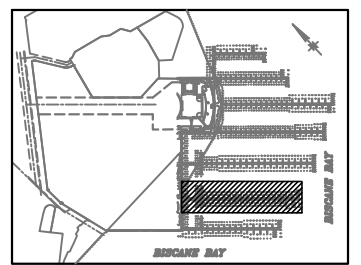
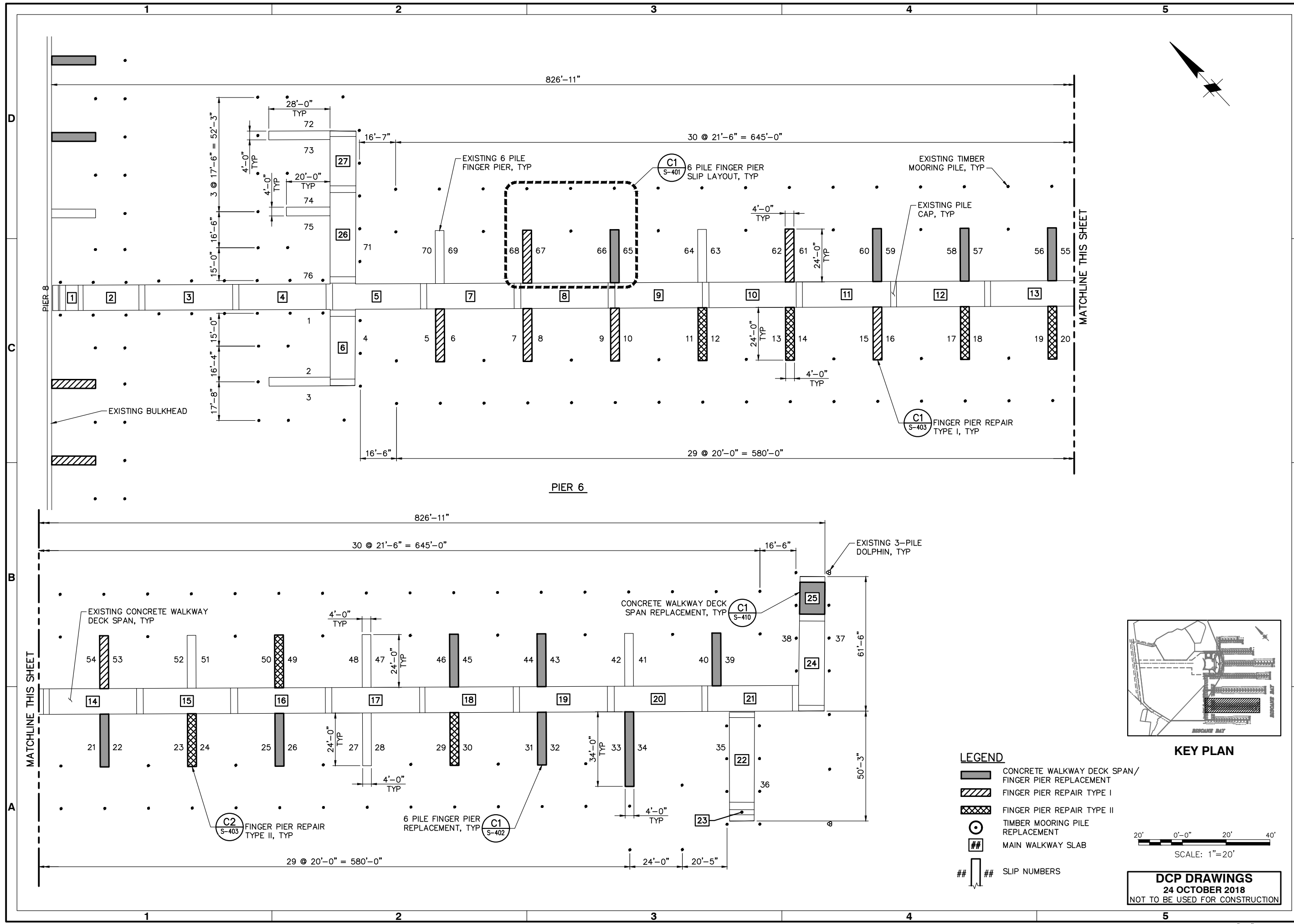
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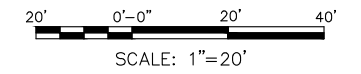
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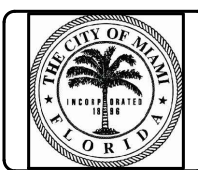
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- CONCRETE WALKWAY DECK SPAN/
FINGER PIER REPLACEMENT
- FINGER PIER REPAIR TYPE I
- FINGER PIER REPAIR TYPE II
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REPLACEMENT
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DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

**ALTERNATIVE BID
PIER 2 REPAIR PLAN**

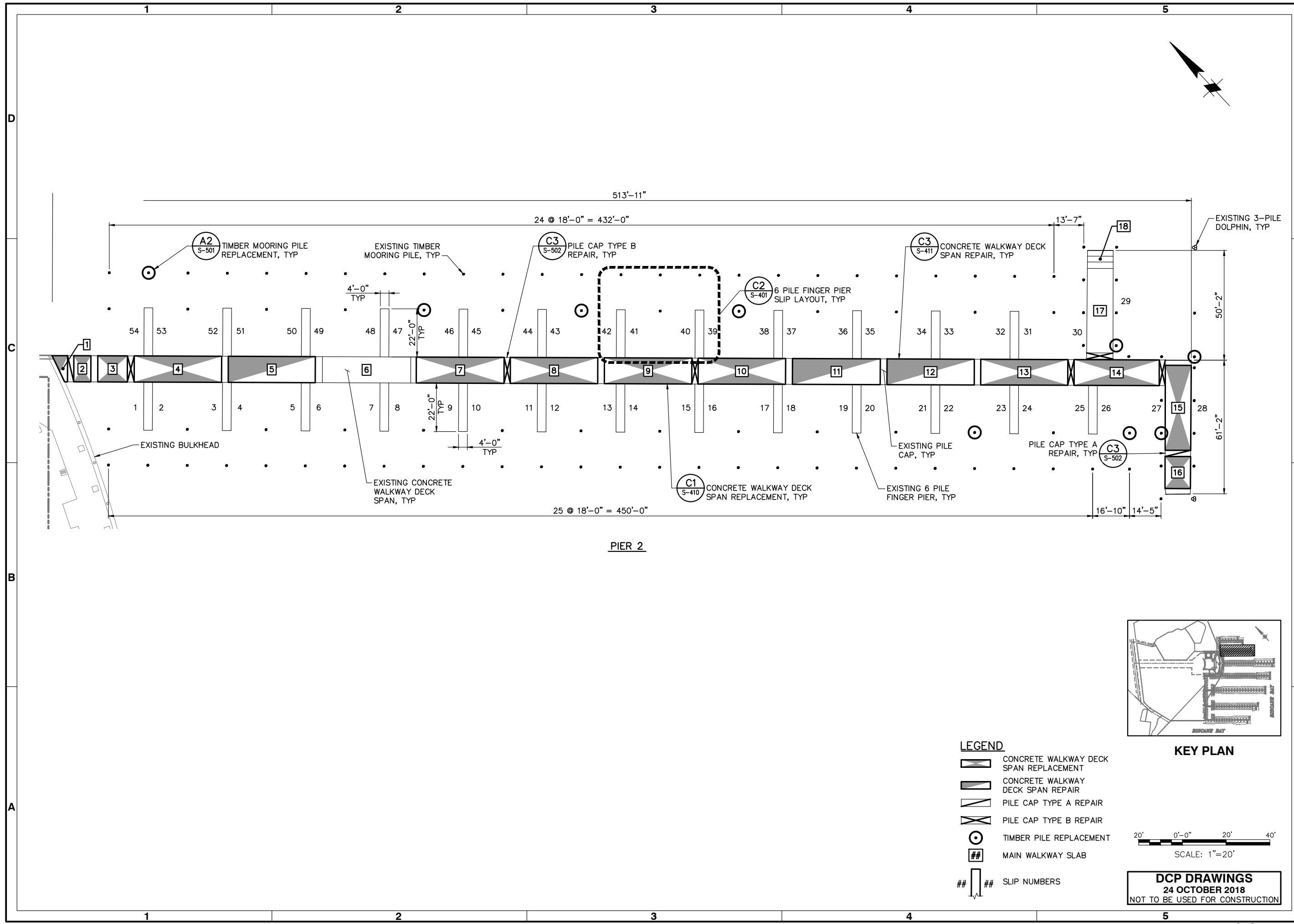
Rev.	DATE	Project No.	Drawing code	Drawing Scale	Plot scale: (1: D SHEET)
		9450-08			

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

moffatt & nichol

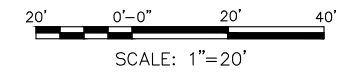
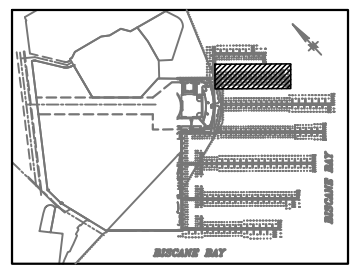
SEAL

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LEGEND

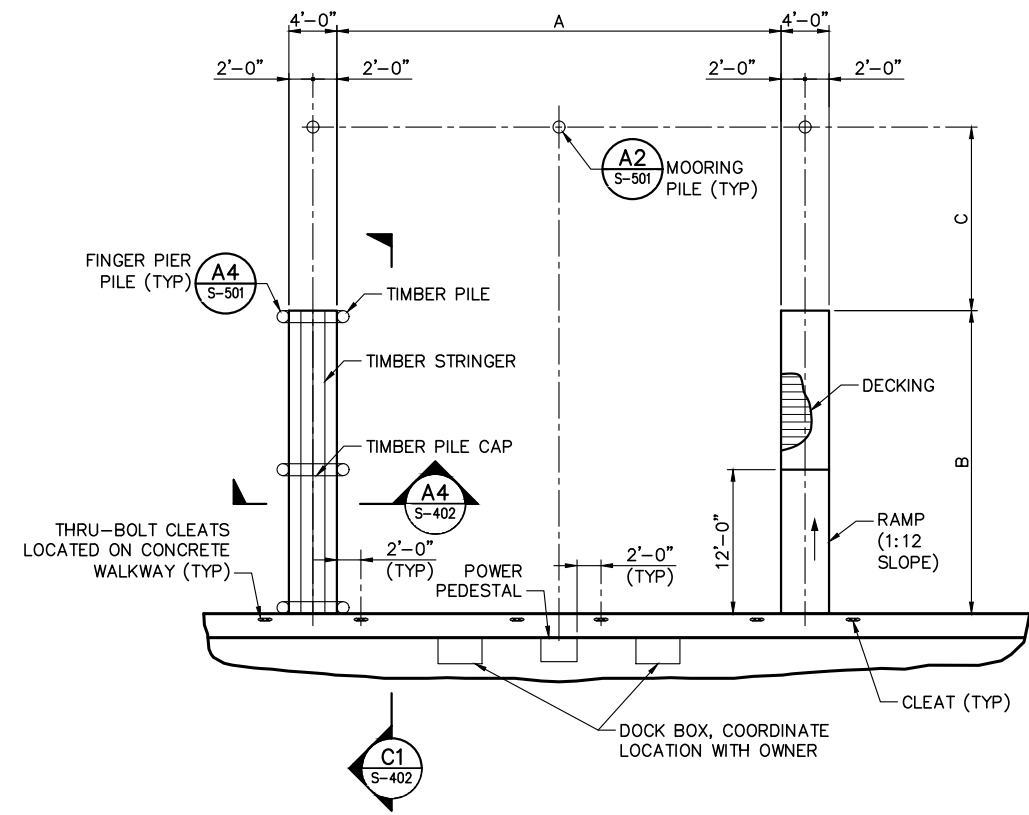
- CONCRETE WALKWAY DECK SPAN REPLACEMENT
- CONCRETE WALKWAY DECK SPAN REPAIR
- PILE CAP TYPE A REPAIR
- PILE CAP TYPE B REPAIR
- TIMBER PILE REPLACEMENT
- MAIN WALKWAY SLAB
- SLIP NUMBERS



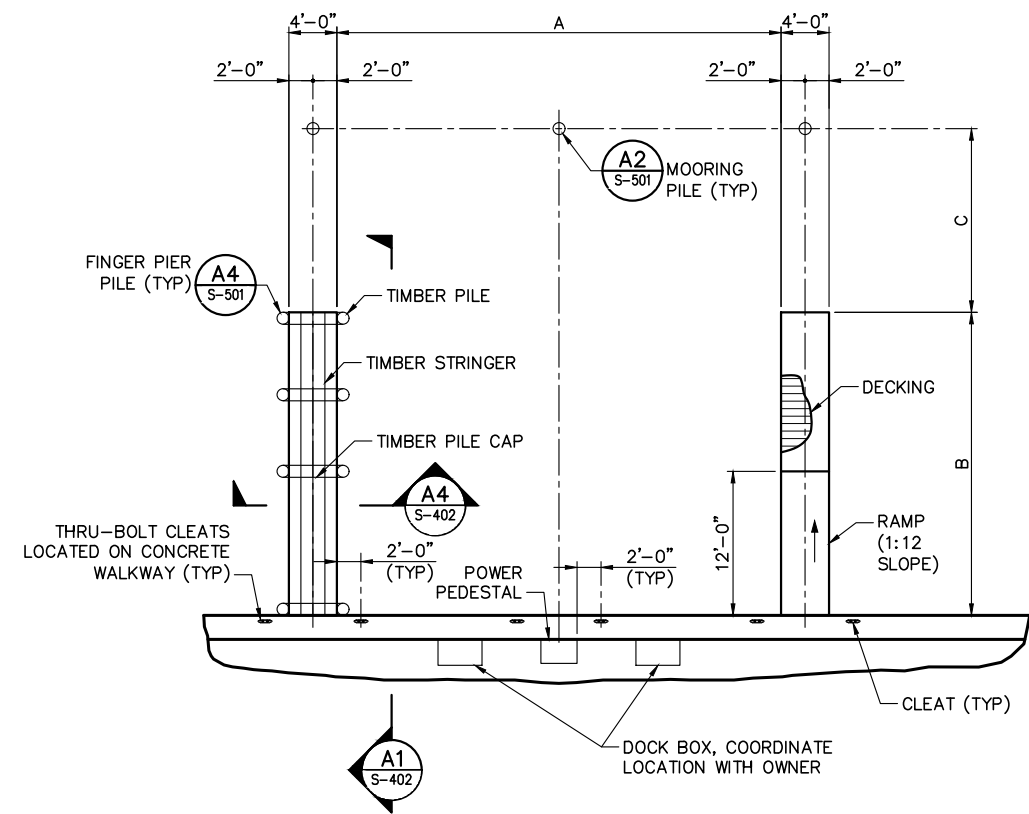
DCP DRAWINGS
24 OCTOBER 2018
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: G:\MIA\9450-08\0500_CAD\Active_Marina\945008_S-122_Plotter\10/24/2018 6:08 PM by ALSTON, TRAVIS; Saved: 10/22/2018 12:45 PM by TALSTON



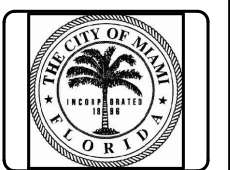
A2 TYPICAL DOUBLE SLIP LAYOUT (6 PILE)
S-101 SCALE: 1/8" = 1'-0"



A1 TYPICAL DOUBLE SLIP LAYOUT (8 PILE)
S-101 SCALE: 1/8" = 1'-0"

SLIP DIMENSIONS				
SLIP SIZE (ft)	A (ft)	B (ft)	C (ft)	NUMBER OF PILES PER FINGER PIER
30	31	20	1	6
35	32	22	16	
40	36	24	19	
45	39	26	22	
50	41	28	25	8
55	43	34	24	
60	44	34	29	

NOTES
1. MATCH TOP OF MAIN WALKWAY ELEVATION. ON PIERS 8 AND 9, MATCH TOP OF BULKHEAD CAP ELEVATION.



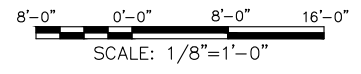
Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

FINGER PIER SLIP LAYOUT

DESIGNED BY: DSGN	CHECKED BY: CHKR	DATE	REVISED BY: REVLR
DRAWN BY: DRFT	PROJECT NO: 9450-08	DRAWING CODE:	DRAWING SCALE: 1:1 (0 SHEET)
SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOL		PLOT SCALE: 1:1 (0 SHEET)	

2937 SW 27th AVE, STE 101A
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305-230-1924
(FL EB 4877)

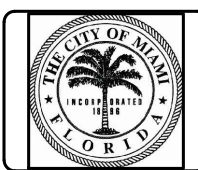


DCP DRAWINGS
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D
C
B
A



Rev.	Date	Description	Mark

**DINNER KEY MARINA
DCP DRAWINGS**

**FINGER PIER REPAIR
SECTIONS**

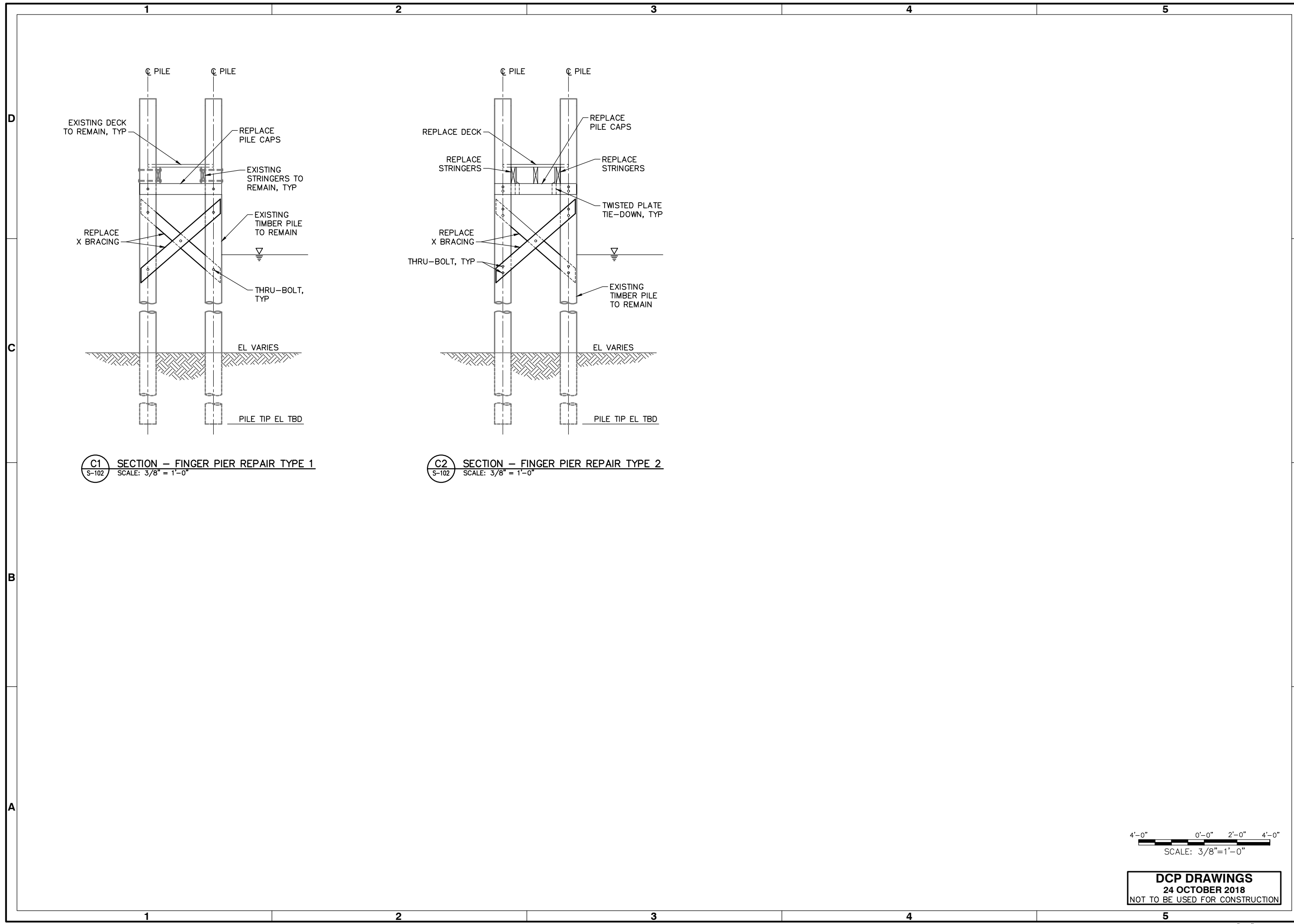
Designed by: DSSN	Checked by: CHKR	Reviewed by: REVR	Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL
Date: DATE	M&N Project No. 9450-08	Drawing code:	Drawing Scale: PLOT SCALE: 1:1 (D SHEET)

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

SEAL

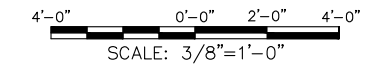
Sheet Reference No.
S-403
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File: C:\MIA\9450-08\0500_CAD\Active_Marina\945008_S-403_Plot.dwg; Plotted: 10/24/2018 6:13 PM by ALSTON, TRAVIS; Saved: 10/24/2018 5:18 PM by TALSTON

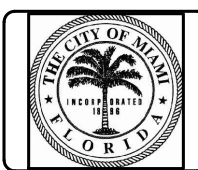


C1 SECTION - FINGER PIER REPAIR TYPE 1
SCALE: 3/8" = 1'-0"

C2 SECTION - FINGER PIER REPAIR TYPE 2
SCALE: 3/8" = 1'-0"



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Rev.	Date	Description

DINNER KEY MARINA
DCP DRAWINGS

CONCRETE WALKWAY REPAIRS

DATE	REVNO	DATE	REVNO

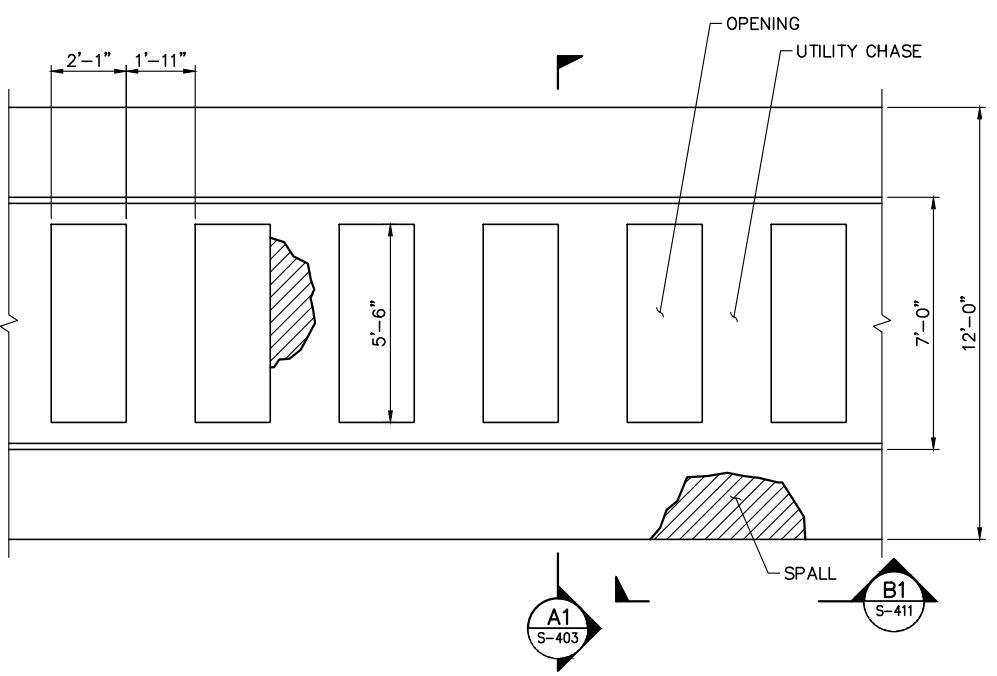
2937 SW 27th AVE STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

moftatt & nichol

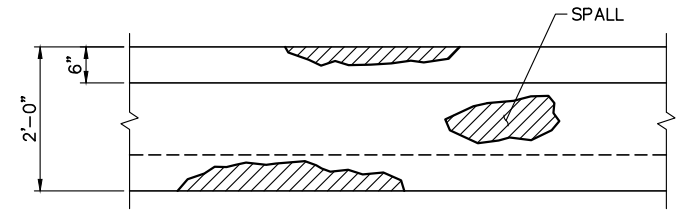
Designed by: DSGN
Dwn by: DRFT
Ckd by: CHKR
Reviewed by: REVR
Submitted by: TIM BLANKENSHIP
MOFTATT & NICHOL
Proj scale: 1:1 (0 SHEET)

Sheet Reference No.
S-411
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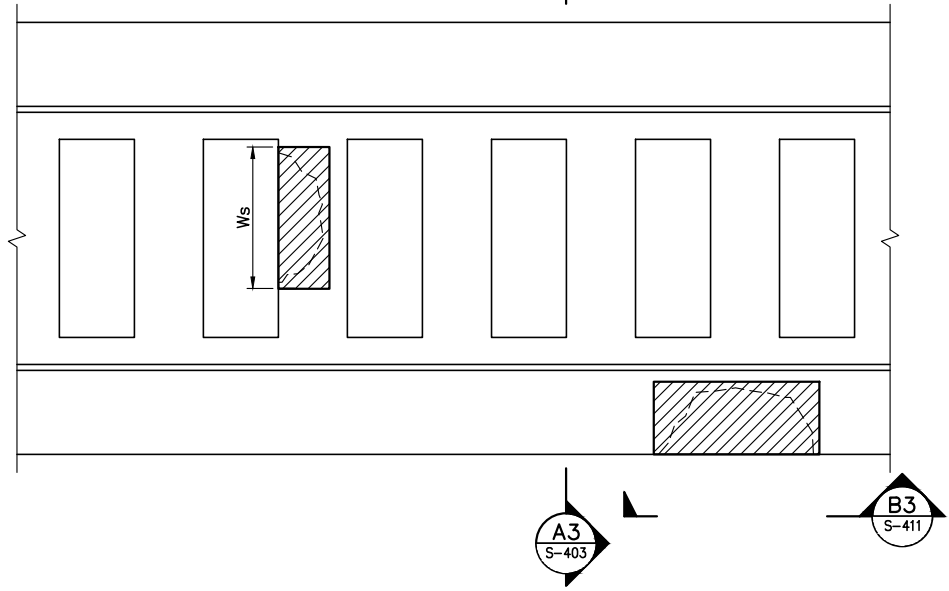
NOTE:
1.



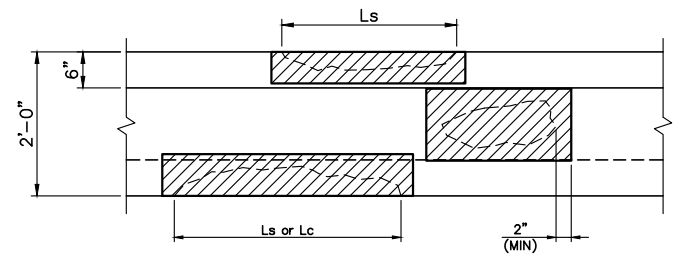
C1 PLAN - EXISTING CONCRETE WALKWAY SPALLS
S-121 SCALE: 3/8" = 1'-0"



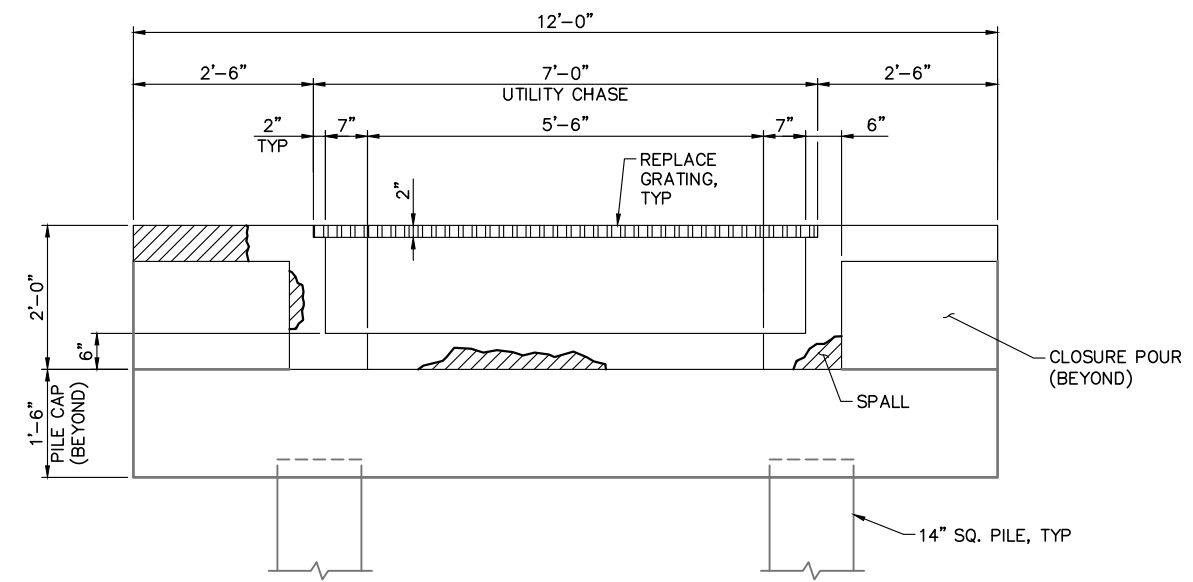
B1 ELEVATION - EXISTING CONCRETE WALKWAY SPALLS
S-411 SCALE: 3/4" = 1'-0"



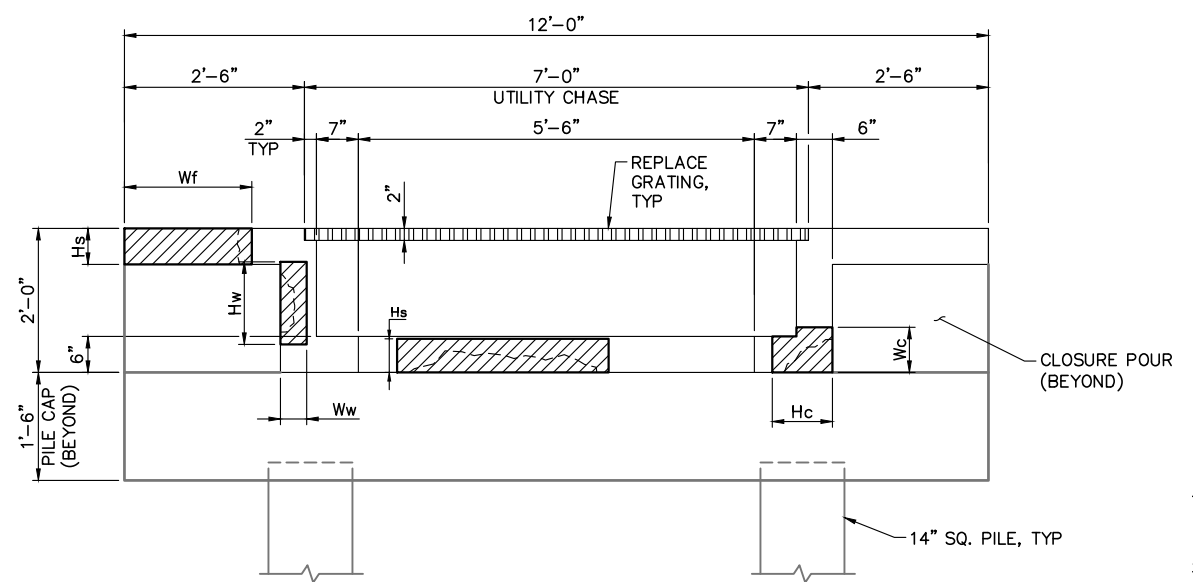
C3 PLAN - CONCRETE WALKWAY SPALL REPAIRS
S-121 SCALE: 3/8" = 1'-0"



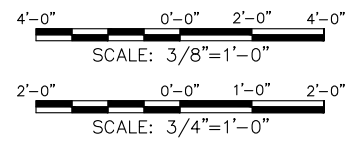
B3 ELEVATION - CONCRETE WALKWAY SPALL REPAIRS
S-411 SCALE: 3/4" = 1'-0"



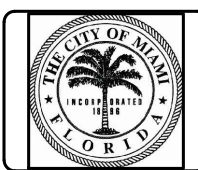
A1 SECTION - EXISTING CONCRETE WALKWAY SPALLS
S-411 SCALE: 3/4" = 1'-0"



A3 SECTION - CONCRETE WALKWAY SPALL REPAIRS
S-411 SCALE: 3/4" = 1'-0"



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Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

TIMBER DOCK DETAILS

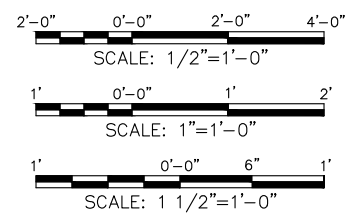
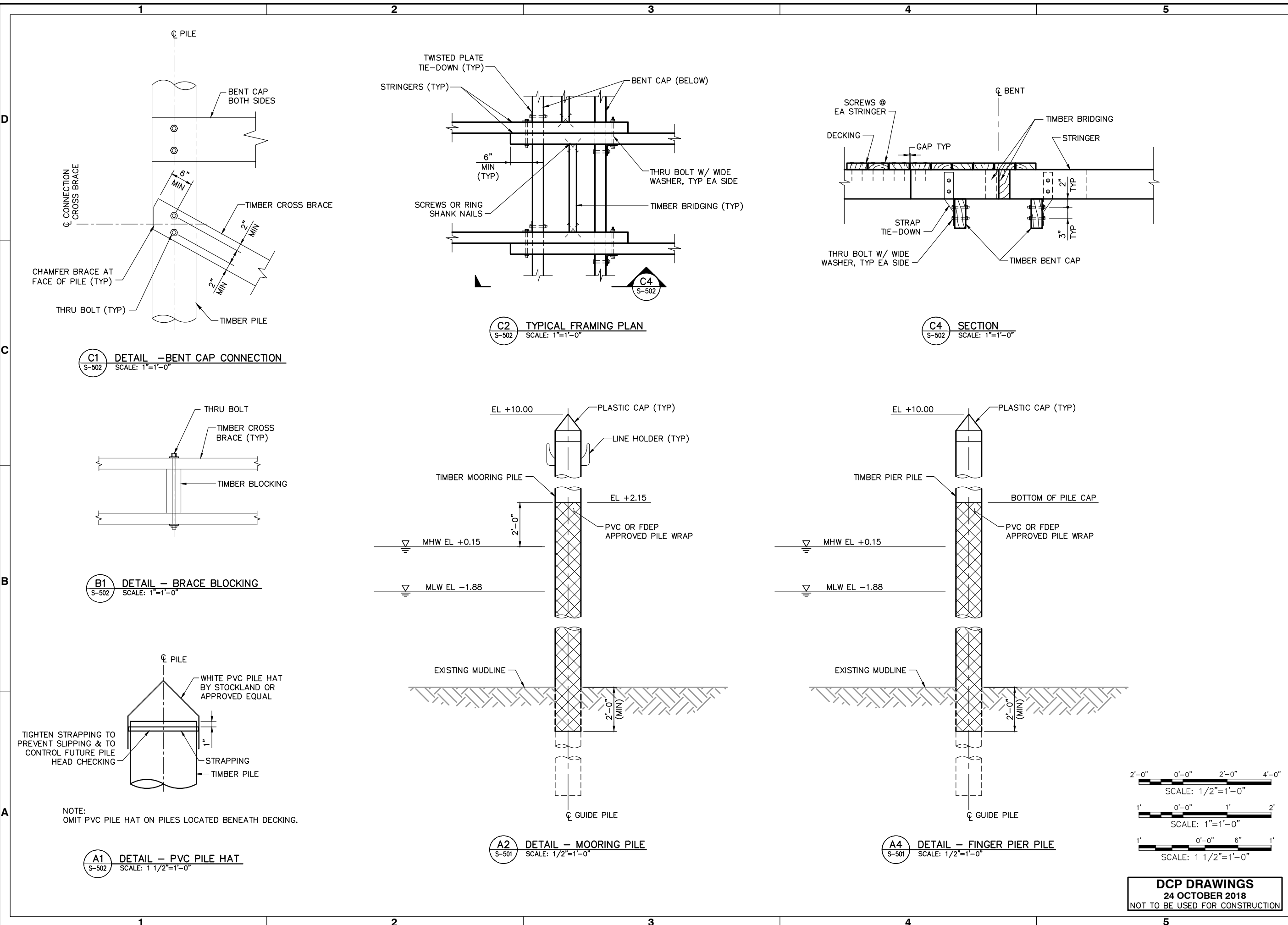
DESIGNED BY: DSGN	CHECKED BY: CHKR	DATE	REVNO
DRAWN BY: DRFT	REVIEWED BY: REVR	M&N Project No. 9450-08	DRAWING CODE:
SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOL		DRAWING SCALE:	PLOT SCALE: 1:1 (D SHEET)

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

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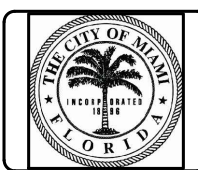
SEAL

Sheet Reference No.
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DCP DRAWINGS
24 OCTOBER 2018
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File: G:\MIA\9450-08\0500_C4D_Active_Marina\945008_S-501_Plotter: 10/24/2018 6:13 PM by ALSTON, TRAVIS; Saved: 10/24/2018 5:34 PM by TALSTON



Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

CONCRETE REPAIR DETAILS

DESIGNED BY: DSSN	DRAWN BY: DRFT	CHECKED BY: CHKR	REVIEWED BY: REVR	SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOI
DATE	M&N PROJECT NO. 9450-08	DRAWING CODE	DRAWING SCALE	PLOT SCALE: 1:1 (D SHEET)

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

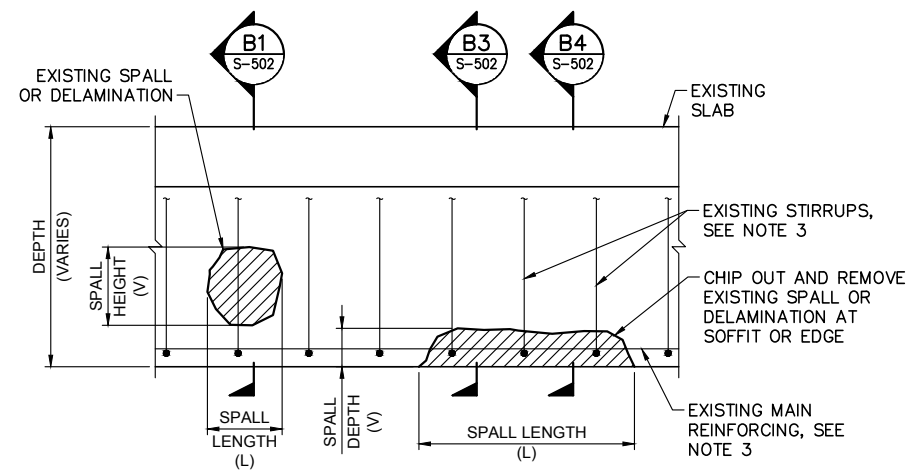
moffatt & nichol

SEAL

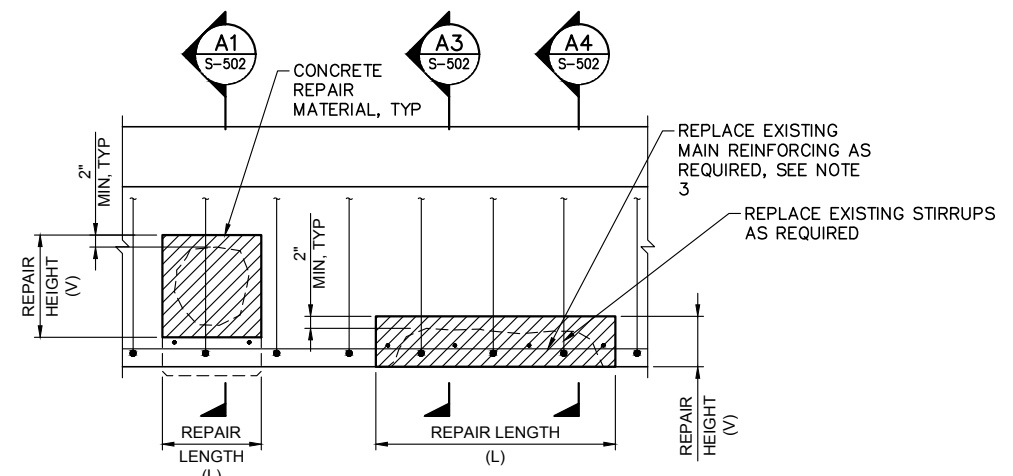
Sheet Reference No.
S-502
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NOTES

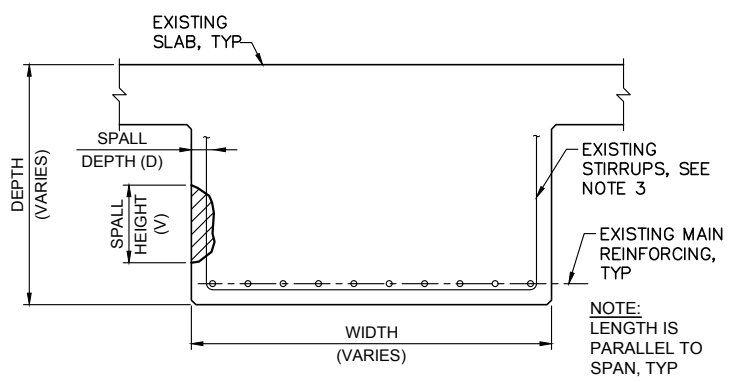
- SEE CONCRETE REPAIR NOTES ON S-001.
- PILE CAP DEFECT TYPES A, B & C ARE DESCRIBED AS FOLLOWS:
TYPE A - OPEN CORROSION SPALLS
TYPE B - CLOSED CORROSION SPALLS
TYPE C - CRACKS AND MINOR SPALLS
- REPLACE CORRODED REINFORCING BARS. PROVIDE REINFORCING TO MATCH SIZE, LOCATION AND SPACING OF EXISTING REIN BARS.
- CLEAR COVER TO MATCH EXISTING.
- PROVIDE FORMWORK FOR REPAIRS IN WHICH SPALL AREA IS GREATER THAN 2 SQUARE FEET.
- DAMAGED PILE CAPS ARE INDICATED ON THE PLANS.
- CONTRACTOR SHALL REPAIR PILE CAP DEFECTS PER TYPICAL DETAILS SHOWN ON THIS SHEET.
- CONTRACTOR SHALL SUBMIT DIMENSIONS FOR THE PILE CAP REPAIR SCHEDULE.
- SEE EXAMPLE REPAIR SCHEDULE FOR REFERENCE, SHEET S-600.
- CONTRACTOR SHALL USE THE REPAIR SCHEDULE TO ESTIMATE A PILE CAP REPAIR QUANTITY WHICH SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.



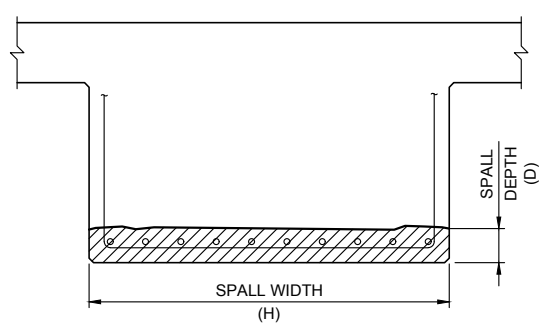
C1 ELEVATION - EXISTING CONCRETE BENT
S-121 SCALE: 3/4" = 1'-0"



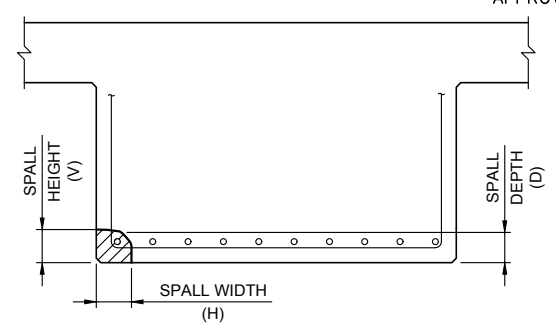
C3 ELEVATION - CONCRETE REPAIR DETAIL
S-121 SCALE: 3/4" = 1'-0"



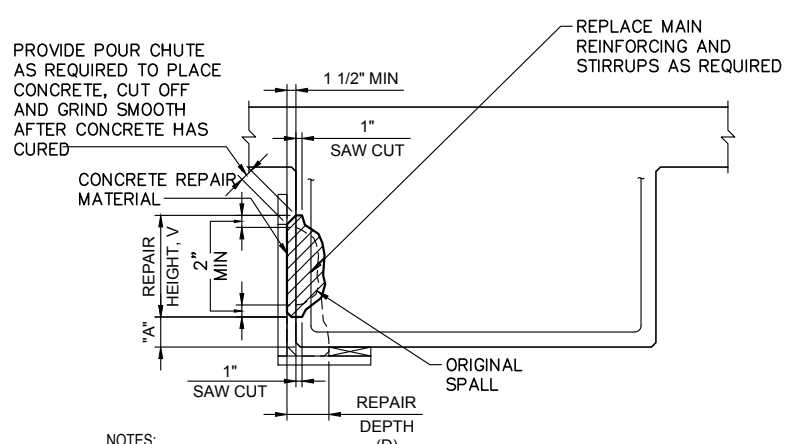
B1 SECTION - EXISTING FASCIA SPALL
S-502 SCALE: 3/4" = 1'-0"



B3 SECTION - EXISTING SOFFIT SPALL
S-502 SCALE: 3/4" = 1'-0"

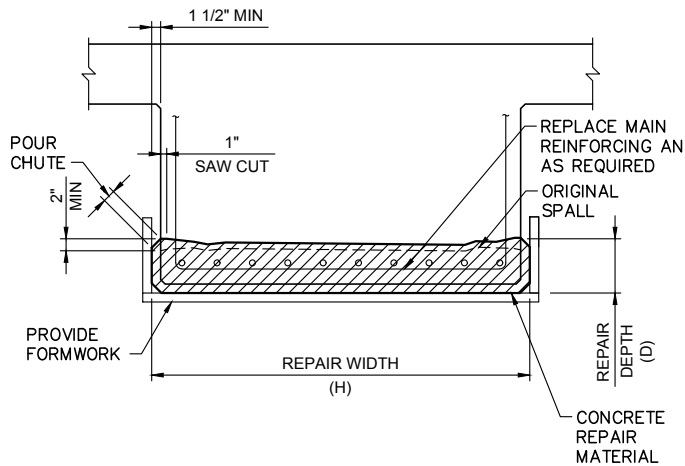


B4 SECTION - EXISTING CORNER SPALL
S-502 SCALE: 3/4" = 1'-0"

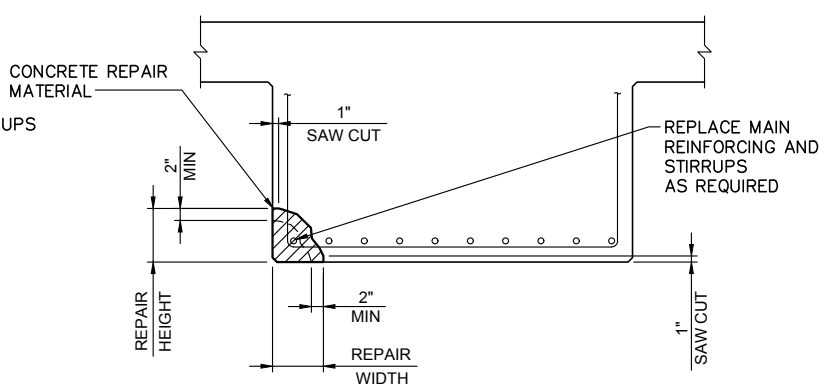


- NOTES:**
- IF DIMENSION "A" IS LESS THAN 4":
A. REMOVE CORNER PORTION OF EXISTING BEAM TO EXPOSE 4" OF SOUND STIRRUP AT BOTTOM OF CONCRETE AND REPAIR SIMILAR TO CORNER SPALL.

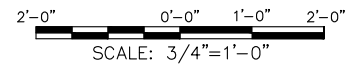
A1 SECTION - FASCIA SPALL CONCRETE REPAIR
S-502 SCALE: 3/4" = 1'-0"



A3 SECTION - SOFFIT SPALL CONCRETE REPAIR
S-502 SCALE: 3/4" = 1'-0"



A4 SECTION - CORNER SPALL CONCRETE REPAIR
S-502 SCALE: 3/4" = 1'-0"



DCP DRAWINGS
24 OCTOBER 2018
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NOTES

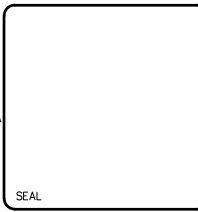
- EXAMPLE REPAIR SCHEDULES ARE PROVIDED FOR REFERENCE.
- THE D/B TEAM SHALL PROVIDE DEFECT REPAIR DATA TABLES AND QUANTITIES FOR ALL CONCRETE REPAIRS.
- PILE CAP DEFECT TYPES A, B & C ARE DESCRIBED AS FOLLOWS:
 TYPE A – OPEN CORROSION SPALLS
 TYPE B – CLOSED CORROSION SPALLS
 TYPE C – CRACKS AND MINOR SPALLS

Rev.	DATE	DESCRIPTION

**DINNER KEY MARINA
DCP DRAWINGS**
PILE REPAIR SCHEDULE

Designed by:	DATE:	Rev.:
DGN		REVNO
Dwn by:	M&N Project No.:	
DFT	9450-08	
	CHKR	
		Drawing code:
		Drawing Scale:
		Plot scale: 1:1 (0 SHEET)

2937 SW 27th AVE. STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)



Sheet Reference No.
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PIER #	LOCATION	REPAIR TYPE	REPAIR DIMENSIONS				REPAIR VOLUME (CF)
			LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	DEPTH (FT)	
1	2/3	C					
	16/17	B					
	17/END	C					
PIER 1 TOTAL							
2	1/2	A					
	3/4	C					
	7/8	B					
	9/10	B					
	13/14	B					
	14/15	C					
	15/16	A					
14/17	C						
PIER 2 TOTAL							
3	1/2	A					
	2/3	B					
	3/4	B					
	4/5	B					
	6/7	B					
	7/8	C					
	8/9	C					
	10/11	B					
	12/13	C					
	13/14	C					
	14/15	B					
	16/17	C					
	18/19	B					
	22/23	B					
23/END	C						
7/8	C						
28/END	B						
PIER 3 TOTAL							
4	1/2	A					
	2/3	C					
	3/4	B					
	4/5	B					
	5/6	C					
	6/7	C					
	7/8	B					
	8/9	B					
	9/10	A					
	10/11	B					
	11/12	A					
	14/15	B					
	15/16	A					
	16/17	C					
17/18	C						
18/19	B						
19/20	C						
20/21	C						
21/22	C						
22/END	C						
21/23	A						
23/END	B						
PIER 4 TOTAL							

PIER #	LOCATION	REPAIR TYPE	REPAIR DIMENSIONS				REPAIR VOLUME (CF)
			LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	DEPTH (FT)	
5	BEGIN/1	B					
	2/3	B					
	3/4	A					
	7/END	C					
	5/8	B					
	9/10	B					
	11/12	B					
	12/13	B					
	13/14	B					
	14/15	A					
	15/16	B					
	16/17	B					
	17/18	A					
	18/19	B					
	19/20	B					
	20/21	B					
	22/23	B					
	24/25	B					
25/26	B						
26/27	B						
27/28	B						
28/END	A						
27/29	A						
29/END	A						
1/6	B						
30/31	A						
31/END	B						
PIER 5 TOTAL							
6	BEGIN/1	B					
	2/3	B					
	3/4	A					
	4/5	B					
	5/6	B					
	6/END	B					
	5/7	B					
	7/8	B					
	8/9	B					
	9/10	B					
	10/11	B					
	11/12	A					
	12/13	B					
	13/14	B					
14/15	C						
15/16	B						
16/17	B						
17/18	B						
18/19	B						
19/20	B						
20/21	C						
21/22	B						
22/23	B						
23/END	B						
7/8	B						
END/24	B						
24/25	B						
5/26	B						
26/27	C						
27/END	B						
PIER 6 TOTAL							

PIER #	LOCATION	REPAIR TYPE	REPAIR DIMENSIONS				REPAIR VOLUME (CF)
			LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	DEPTH (FT)	
7	BEGIN/1	B					
	1/2	A					
	2/3	A					
	3/4	A					
	5/6	B					
	7/8	C					
	8/9	C					
	9/10	B					
	10/11	B					
	11/12	C					
	12/13	B					
	13/14	C					
	14/15	B					
	15/16	B					
	16/17	B					
	17/18	B					
	19/END	B					
	17/20	B					
	END/20	A					
20/21	A						
21/END	B						
5/22	A						
22/23	B						
23/END	A						
PIER 7 TOTAL							
TOTAL							

DCP DRAWINGS
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D

C

B

A

PIER #	SLAB #	REPAIR DIMENSIONS											REPAIR VOLUME (CF)					
		FLANGE			FACE			CORNER			SOFFIT							
		Lf (FT)	Wf (FT)	Hf (FT)	Lw (FT)	Ww (FT)	Hw (FT)	Lc (FT)	Wc (FT)	Hc (FT)	Ls (FT)	Ws (FT)		Hs (FT)				
1	1																	
	2																	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	
	11																	
	12																	
	13																	
	14																	
	15																	
	16																	
	17																	
	18																	
	19																	
	20																	
PIER 1 TOTAL																		
2	1																	
	2																	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	
	11																	
	12																	
	13																	
	14																	
	15																	
	16																	
	17																	
	18																	
PIER 2 TOTAL																		

PIER #	SLAB #	REPAIR DIMENSIONS											REPAIR VOLUME (CF)				
		FLANGE			FACE			CORNER			SOFFIT						
		Lf (FT)	Wf (FT)	Hf (FT)	Lw (FT)	Ww (FT)	Hw (FT)	Lc (FT)	Wc (FT)	Hc (FT)	Ls (FT)	Ws (FT)		Hs (FT)			
3	1																
	2																
	3																
	4																
	5																
	6																
	7																
	8																
	9																
	10																
	11																
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	19																
	20																
	21																
	22																
	23																
	24																
	25																
	26																
	27																
	28																
PIER 3 TOTAL																	
4	1																
	2																
	3																
	4																
	5																
	6																
	7																
	8																
	9																
	10																
	11																
	12																
	13																
	14																
	15																
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
PIER 4 TOTAL																	

NOTES

1. EXAMPLE REPAIR SCHEDULES ARE PROVIDED FOR REFERENCE.
2. THE D/B TEAM SHALL PROVIDE DEFECT REPAIR DATA TABLES AND QUANTITIES FOR ALL CONCRETE REPAIRS.



Mark	Description	Date	Appr.

DINNER KEY MARINA
DCP DRAWINGS

WALKWAY SPAN REPAIR SCHEDULE
(1 OF 2)

Designed by: DSGN	Drawn by: DRFT	Checked by: CHKR	Reviewed by: REVR	Submitted by: TIM BLANKENSHIP	MOFFATT & NICHOL
Date: DATE	M&N Project No: 9450-08	Drawing code:	Drawing Scale:	Plot scale: 1:1 (0 SHEET)	
Rev. REVNO					

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

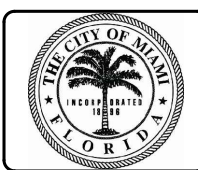
SEAL

DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

Sheet Reference No.
S-601
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PLUMBING:

1. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, PIPE BEDDING, SUPPORTS, INSTALLATION OF NEW LINE, WALL PENETRATIONS, AND THRUST BLOCK PLACEMENTS, PRESSURE TESTING, DISINFECTION, FLUSHING, WARNING TAPE, BACKFILL, SURFACING, LANDSCAPING, ACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH THE LOCAL WATER, FIRE, SEWER DEPARTMENT AND OTHER AHJ STANDARDS AND REGULATIONS AND SHALL BE COORDINATED WITH THE WATER, SEWER, FIRE, AND OTHER AHJ DEPARTMENTS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH THE TIE-INS ARE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE PW SYSTEM. AUTHORIZED REPRESENTATIVE SHALL WITNESS TIE-IN, AS REQUIRED.
2. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS: ALL APPARATUS, PARTS, MATERIALS, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE FURNISHED AND WORKED INTO PLACE. MANUFACTURERS INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED, UNLESS SPECIFICALLY SUPERSEDED HEREIN.
3. ALL PIPING SHALL FOLLOW THE GENERAL ARRANGEMENT SHOWN. PIPING SHALL BE RUN ESSENTIALLY AS INDICATED, CARE BEING TAKEN TO AVOID INTERFERENCE WITH OTHER PIPING, CONDUIT, OR EQUIPMENT. THE LOCATION OF PIPING TO BE RUN ON DOCKS SHALL BE CAREFULLY COORDINATED WITH ELECTRICAL CONDUITS SPECIFIED. BEFORE JOINTING AND ERECTION OF PIPING, THOROUGHLY CLEAN INTERIORS OF PIPE AND COMPONENTS. MAINTAIN CLEANLINESS BY CLOSURE OF PIPE OPENINGS WITH CAPS OR PLUGS.
4. AS APPLICABLE, BURIED HDPE AND OTHER NON-METALLIC LINES SHALL HAVE PLASTIC WARNING TAPE AND LOCATOR WIRE. A VALVE BOX AND COVER SHALL BE PROVIDED FOR BURIED VALVES.
5. ALL PW, MATERIALS (PIPE, VALVES, ETC.) SHALL BE FURNISHED BY THE CONTRACTOR. ALL SUCH MATERIALS SHALL BE NEW AND SHALL MEET AHJ SPECIFICATION REQUIREMENTS FOR EACH ITEM, AND PRIOR TO INSTALLATION, MUST BE APPROVED IN WRITING BY THE AHJ.
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 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.
8. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY GAS, WATER, POWER, COMMUNICATION, 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, OR AS REQUIRED BY THE OWNER. 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.
9. 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 ACCEPTABLE TO THE ENGINEER AND ALL REGULATORY AUTHORITIES.
10. 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.
11. ALL WATER SERVICE (PW) CONSTRUCTION MUST BE DONE BY A LICENSED UTILITY CONTRACTOR.
12. CONTRACTOR SHALL INVESTIGATE SOIL PROPERTIES TO DETERMINE REQUIREMENTS OF EXCAVATION AND SHORING, IF REQUIRED.
13. EXCAVATION AND/OR SHORING AND DEWATERING SHALL BE IN COMPLIANCE WITH APPLICABLE STATE, LOCAL, AND OSHA REQUIREMENTS.



Rev.	DATE	DESCRIPTION

**DINNER KEY MARINA
DCP DRAWINGS**

PLUMBING NOTES

DESIGNED BY: DSEGN	DATE	REVISED BY: REVNO
DRAWN BY: DRFT	M&N Project No. 9450-08	DATE
CHECKED BY: CHKR	DRAWING CODE:	DATE
REVIEWED BY: REVR	DRAWING SCALE:	DATE
SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOL	PLOT SCALE: 1:1 (D SHEET)	DATE

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COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

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DCP DRAWINGS
24 OCTOBER 2018
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Sheet
Reference No.
P-001
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File: G:\MIA\9450-08\0500_CAD\Active_Marina\945008_P-001_Plot.dwg; Plotted: 10/24/2018 6:14 PM by ALSTON, TRAVIS; Saved: 10/24/2018 1:47 PM by TALSTON



Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

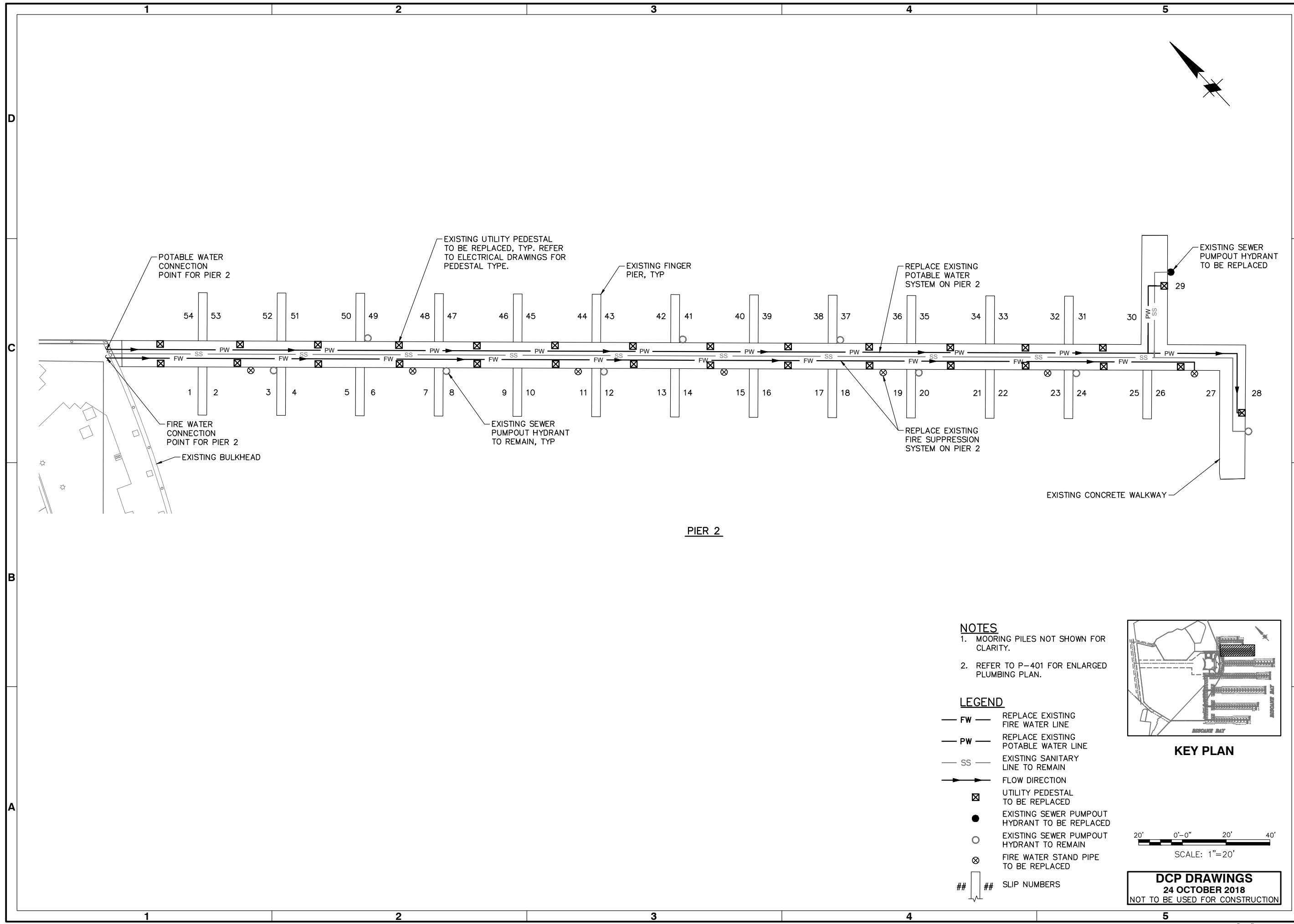
PIER 2 PLUMBING PLAN

Designed by: DSGN	Checked by: CHKR	Reviewed by: REVR	Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL
Date: DATE	M&N Project No. 9450-08	Drawing code:	Drawing Scale: Plot scale: 1" = 20'

2937 SW 27th Ave, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

SEAL

Sheet Reference No.
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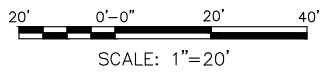
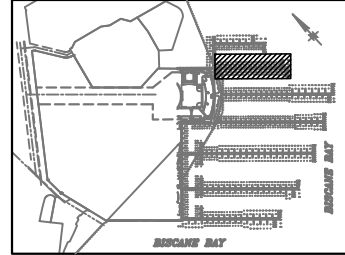


NOTES

1. MOORING PILES NOT SHOWN FOR CLARITY.
2. REFER TO P-401 FOR ENLARGED PLUMBING PLAN.

LEGEND

- FW — REPLACE EXISTING FIRE WATER LINE
- PW — REPLACE EXISTING POTABLE WATER LINE
- SS — EXISTING SANITARY LINE TO REMAIN
- FLOW DIRECTION
- ☒ UTILITY PEDESTAL TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
- ⊗ FIRE WATER STAND PIPE TO BE REPLACED
- ## ## SLIP NUMBERS



DCP DRAWINGS
24 OCTOBER 2018
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File: C:\MIA\9450-08\0500_CAD\Active_Marina\945008_P-102_Plotted: 10/24/2018 6:15 PM by ALSTON, TRAVIS; Saved: 10/24/2018 8:00 AM by TALSTON



Rev.	DATE	DESCRIPTION

**DINNER KEY MARINA
DCP DRAWINGS**

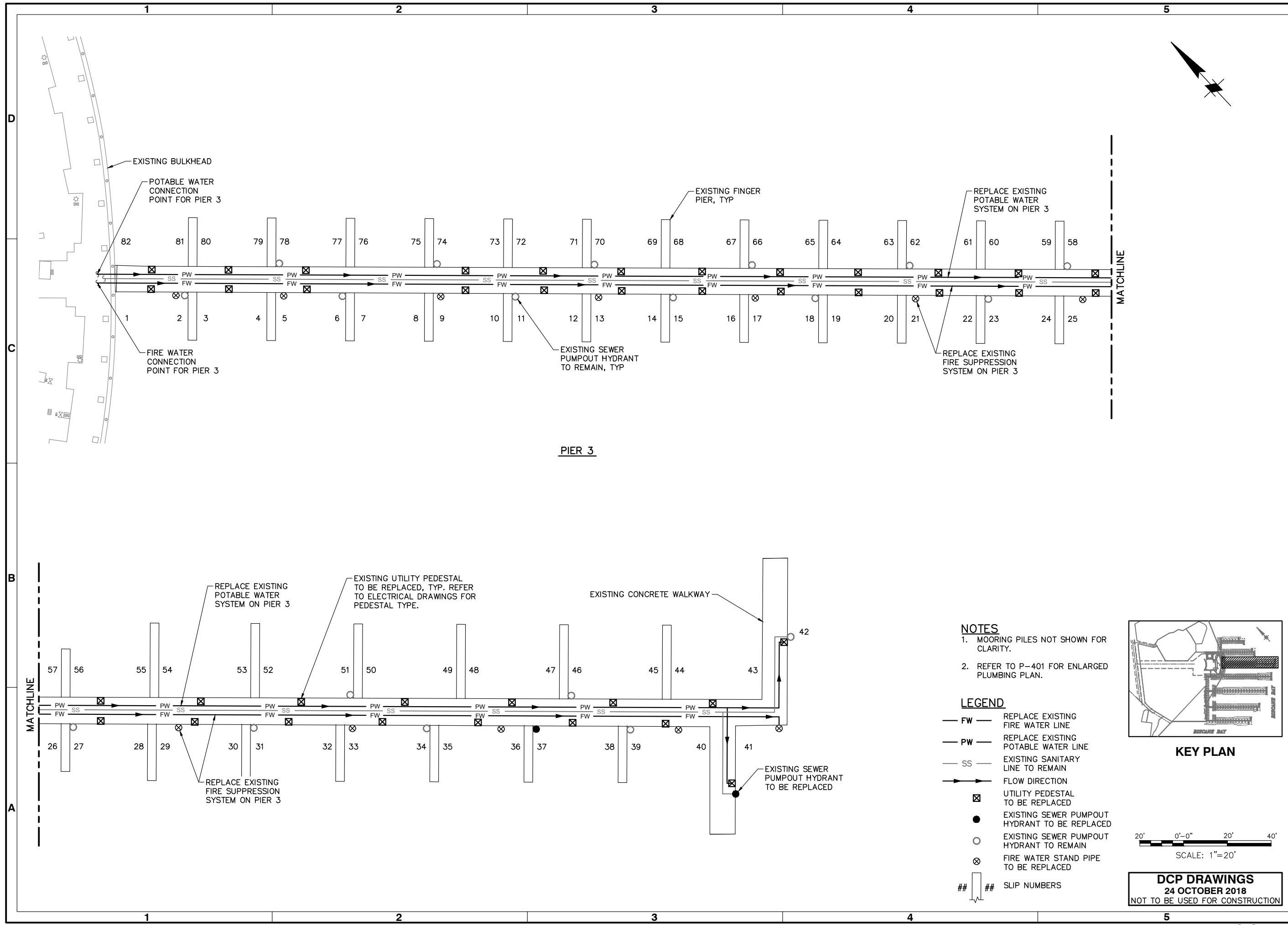
PIER 3 PLUMBING PLAN

DESIGNED BY:	DATE:	REVNO:
DSGN		
DWN BY:	M&N PROJECT NO.:	
DRFT	9450-08	
REVIEWED BY:	DRAWING CODE:	
REVR		
SUBMITTED BY:	DRAWING SCALE:	
TIM BLANKENSHIP	1"=20'	
MOFFATT & NICHOL	PLOT SCALE: 1"=20'	

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COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

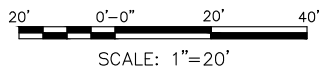
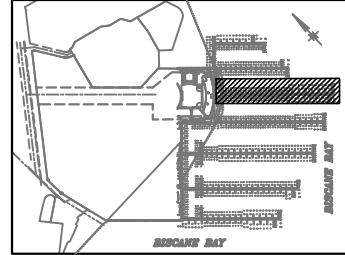
SEAL

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- NOTES**
- MOORING PILES NOT SHOWN FOR CLARITY.
 - REFER TO P-401 FOR ENLARGED PLUMBING PLAN.

- LEGEND**
- FW — REPLACE EXISTING FIRE WATER LINE
 - PW — REPLACE EXISTING POTABLE WATER LINE
 - SS — EXISTING SANITARY LINE TO REMAIN
 - FLOW DIRECTION
 - ☒ UTILITY PEDESTAL TO BE REPLACED
 - EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
 - EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
 - ⊗ FIRE WATER STAND PIPE TO BE REPLACED
 - ## SLIP NUMBERS



DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

File: G:\MIA\9450-08\0500_CAD\Active_Marina\945008_P-103_Plotted: 10/24/2018 6:15 PM by ALSTON, TRAVIS; Saved: 10/24/2018 7:58 AM by TALSTON



Rev.	Date	Description

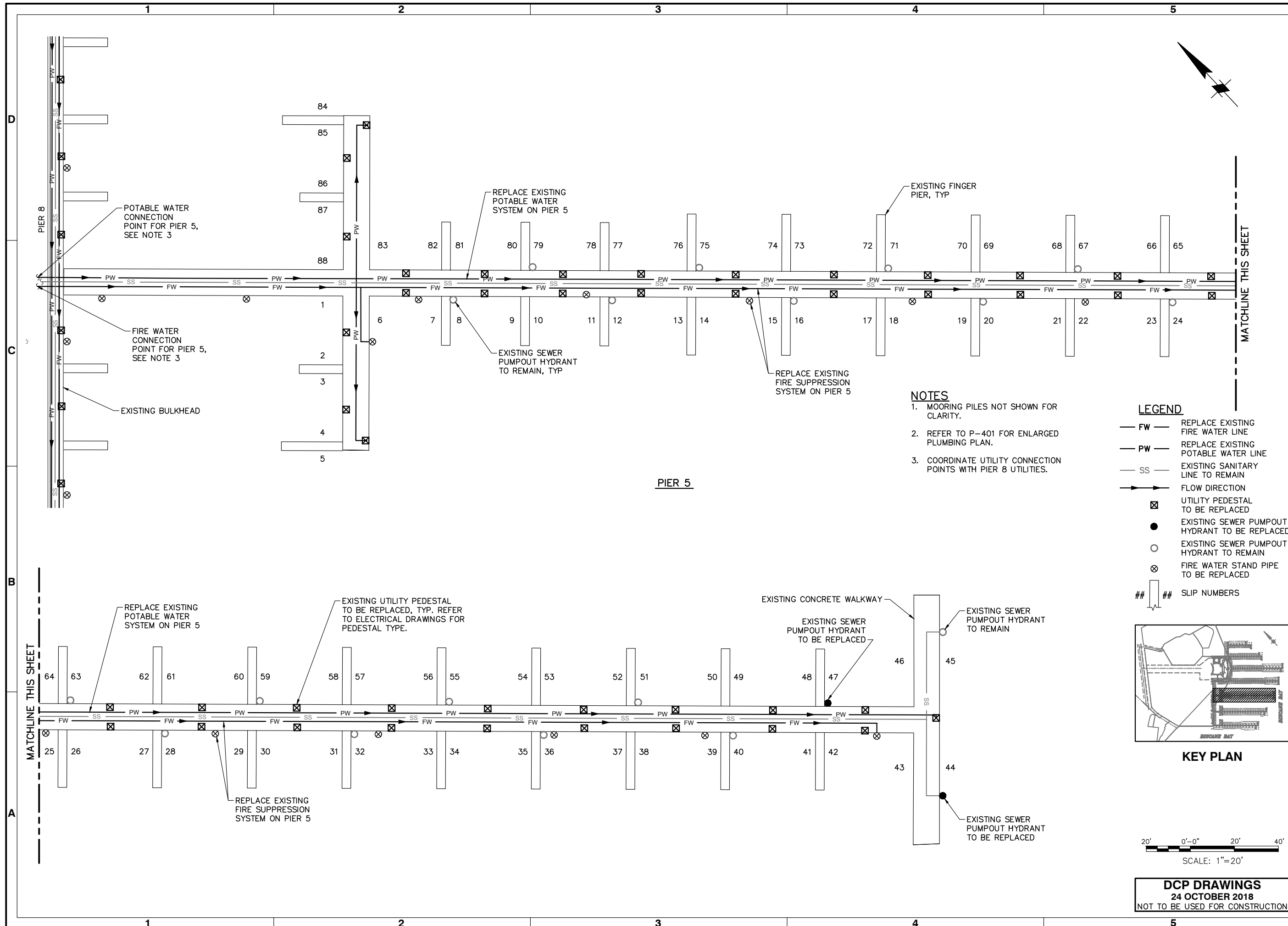
**DINNER KEY MARINA
DCP DRAWINGS**

PIER 5 PLUMBING PLAN

Rev.	DATE	REVISION

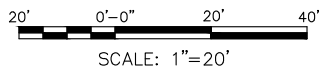
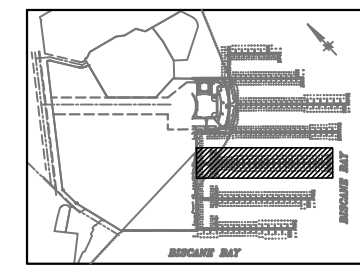
2837 SW 27th Ave, Ste 101A
COCONUT GROVE, FL 33133
305-230-1824
(FL EB 4877)

Sheet Reference No.
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- NOTES**
1. MOORING PILES NOT SHOWN FOR CLARITY.
 2. REFER TO P-401 FOR ENLARGED PLUMBING PLAN.
 3. COORDINATE UTILITY CONNECTION POINTS WITH PIER 8 UTILITIES.

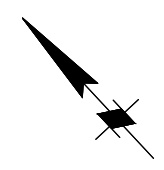
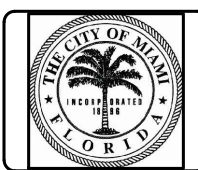
- LEGEND**
- FW — REPLACE EXISTING FIRE WATER LINE
 - PW — REPLACE EXISTING POTABLE WATER LINE
 - SS — EXISTING SANITARY LINE TO REMAIN
 - FLOW DIRECTION
 - ☒ UTILITY PEDESTAL TO BE REPLACED
 - EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
 - EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
 - ⊗ FIRE WATER STAND PIPE TO BE REPLACED
 - ## SLIP NUMBERS



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24 OCTOBER 2018
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File: G:\MIA\9450-08\0500_C4D\Active_Marina\945008_P-105_Plotfiled: 10/24/2018 6:16 PM by ALSTON, TRAVIS; Saved: 10/24/2018 4:28 PM by TALSTON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



Rev.	DATE	DESCRIPTION

**DINNER KEY MARINA
DCP DRAWINGS**

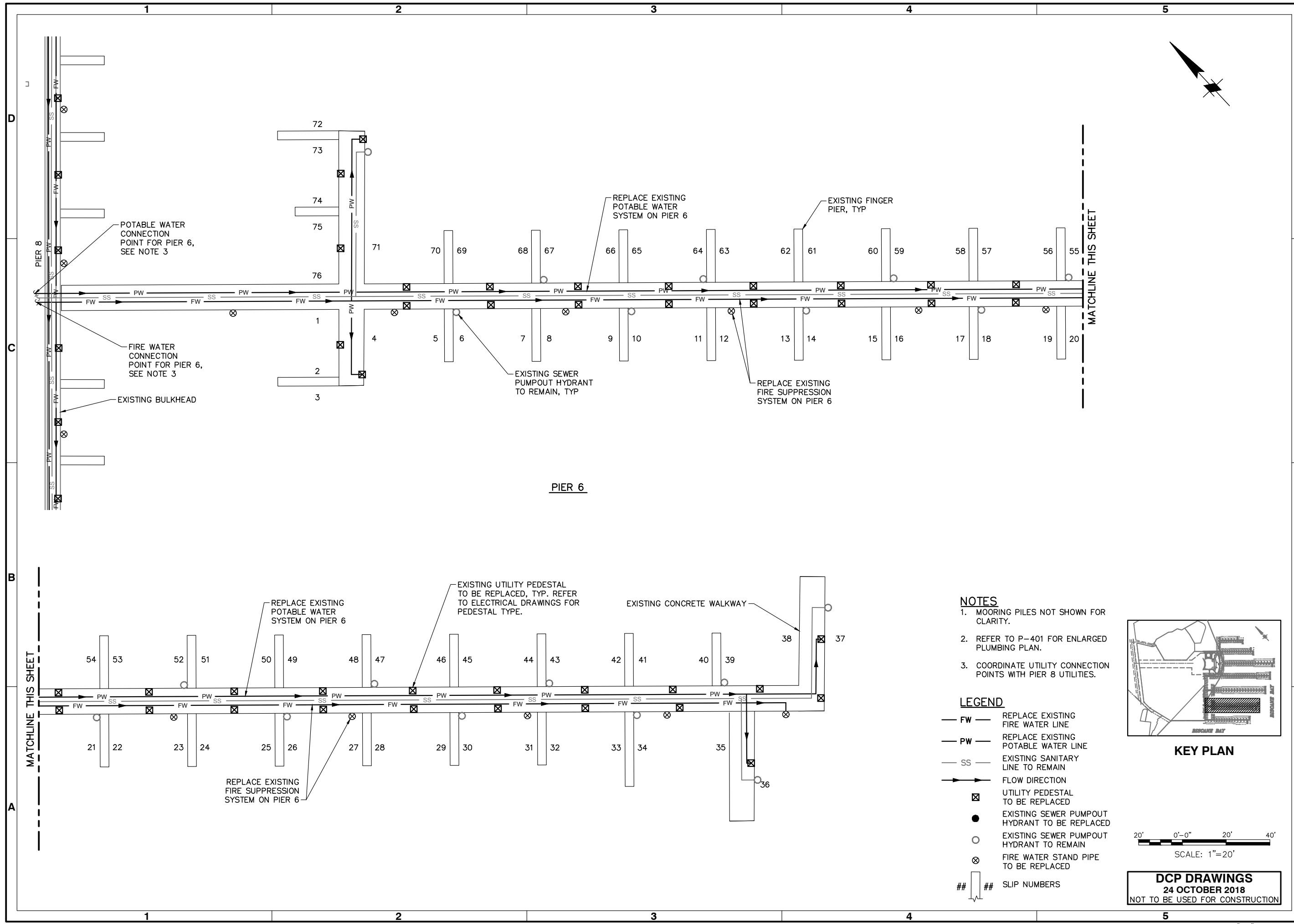
PIER 6 PLUMBING PLAN

Designed by: DSSN	Date: DATE	Rev. REVNO
Drawn by: DRFT	Check by: CHKR	Project No. 9450-08
Reviewed by: REVR	Drawing code:	Drawing Scale:
Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL	Plot scale: 1" = 20'	Plot scale: 1" = 20'

2837 SW 27th Ave, STE 101A
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305-230-1824
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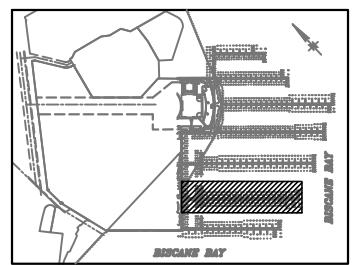


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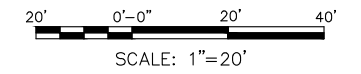
- MOORING PILES NOT SHOWN FOR CLARITY.
- REFER TO P-401 FOR ENLARGED PLUMBING PLAN.
- COORDINATE UTILITY CONNECTION POINTS WITH PIER 8 UTILITIES.

LEGEND

- REPLACE EXISTING FIRE WATER LINE
- REPLACE EXISTING POTABLE WATER LINE
- EXISTING SANITARY LINE TO REMAIN
- FLOW DIRECTION
- UTILITY PEDESTAL TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
- FIRE WATER STAND PIPE TO BE REPLACED
- SLIP NUMBERS



KEY PLAN



SCALE: 1"=20'

DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



Rev.	Date	Description	Mark

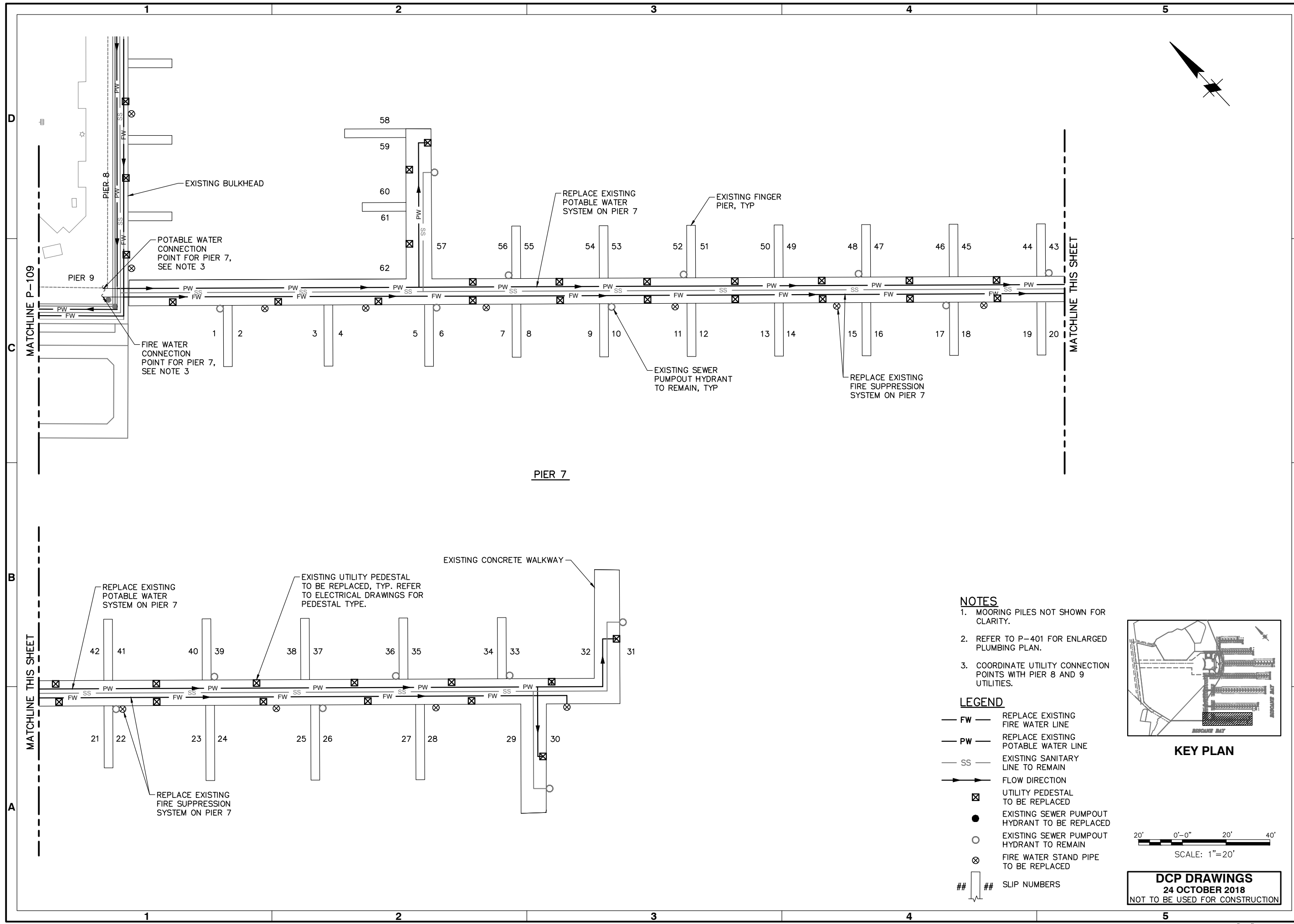
DINNER KEY MARINA
DCP DRAWINGS
PIER 7 PLUMBING PLAN

DESIGNED BY	DATE	REV.
DSSN		REVNO
Dwn by: DRFT	CHKR	Project No. 9450-08
Reviewed by: REVR	Drawing code:	Drawing Scale: Plot scale: 1:1 (0 SHEET)
Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL		

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)
moffatt & nichol

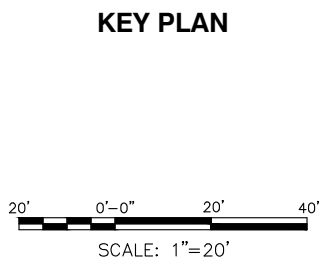
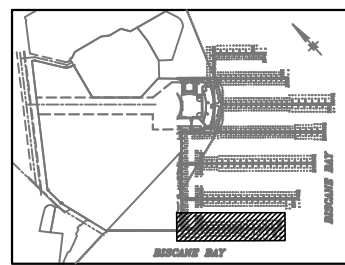
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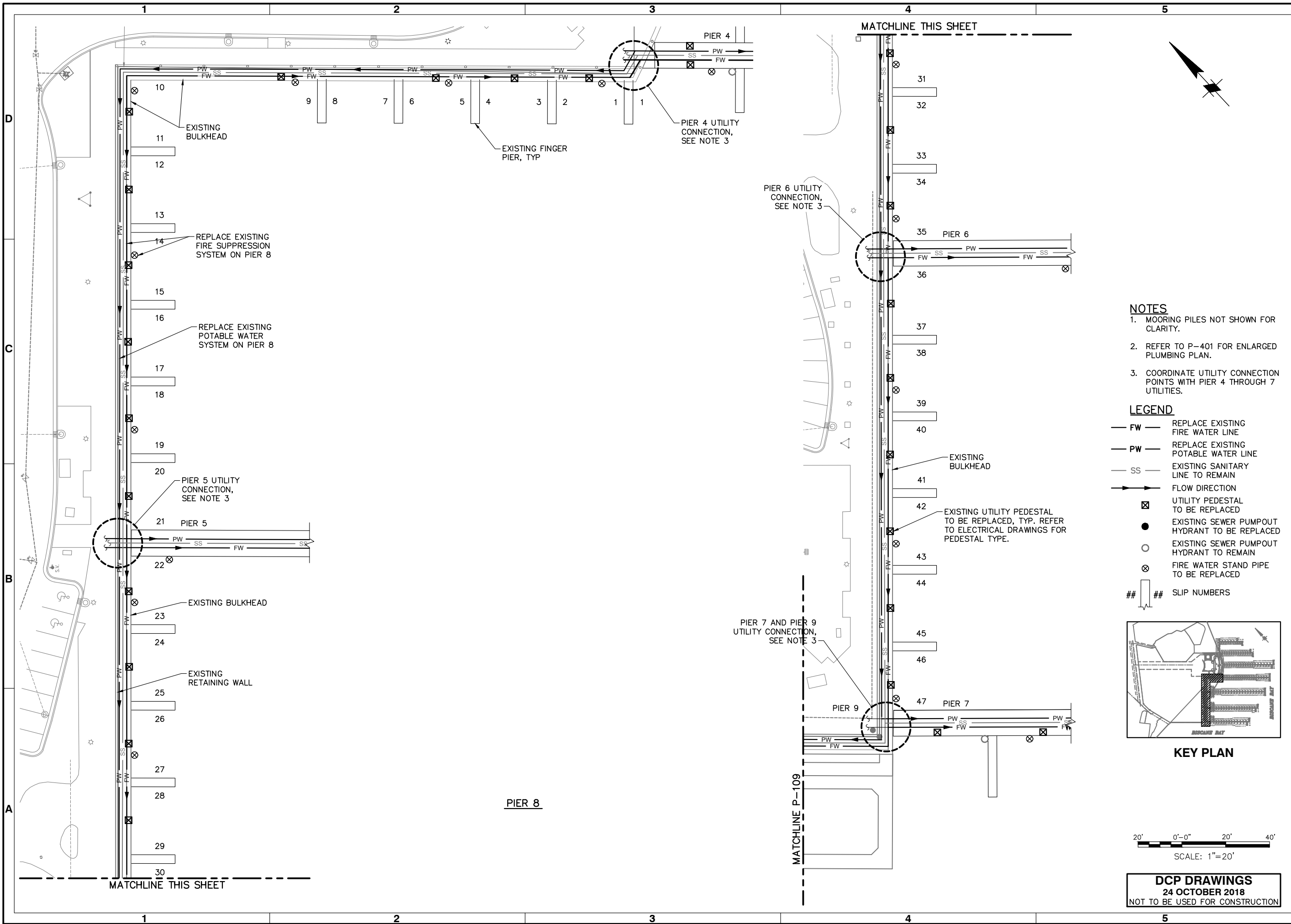


- NOTES**
- MOORING PILES NOT SHOWN FOR CLARITY.
 - REFER TO P-401 FOR ENLARGED PLUMBING PLAN.
 - COORDINATE UTILITY CONNECTION POINTS WITH PIER 8 AND 9 UTILITIES.

- LEGEND**
- FW — REPLACE EXISTING FIRE WATER LINE
 - PW — REPLACE EXISTING POTABLE WATER LINE
 - SS — EXISTING SANITARY LINE TO REMAIN
 - FLOW DIRECTION
 - ☒ UTILITY PEDESTAL TO BE REPLACED
 - EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
 - EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
 - ⊗ FIRE WATER STAND PIPE TO BE REPLACED
 - ## ## SLIP NUMBERS



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24 OCTOBER 2018
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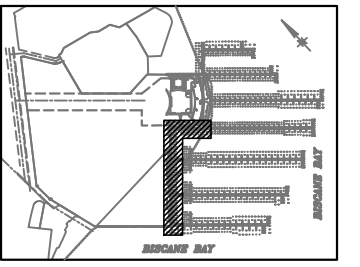


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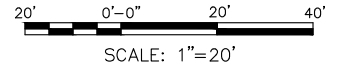
1. MOORING PILES NOT SHOWN FOR CLARITY.
2. REFER TO P-401 FOR ENLARGED PLUMBING PLAN.
3. COORDINATE UTILITY CONNECTION POINTS WITH PIER 4 THROUGH 7 UTILITIES.

LEGEND

- FW — REPLACE EXISTING FIRE WATER LINE
- PW — REPLACE EXISTING POTABLE WATER LINE
- SS — EXISTING SANITARY LINE TO REMAIN
- FLOW DIRECTION
- ☒ UTILITY PEDESTAL TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
- ⊗ FIRE WATER STAND PIPE TO BE REPLACED
- ## SLIP NUMBERS



KEY PLAN



SCALE: 1"=20'

DCP DRAWINGS
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DINNER KEY MARINA
 DCP DRAWINGS

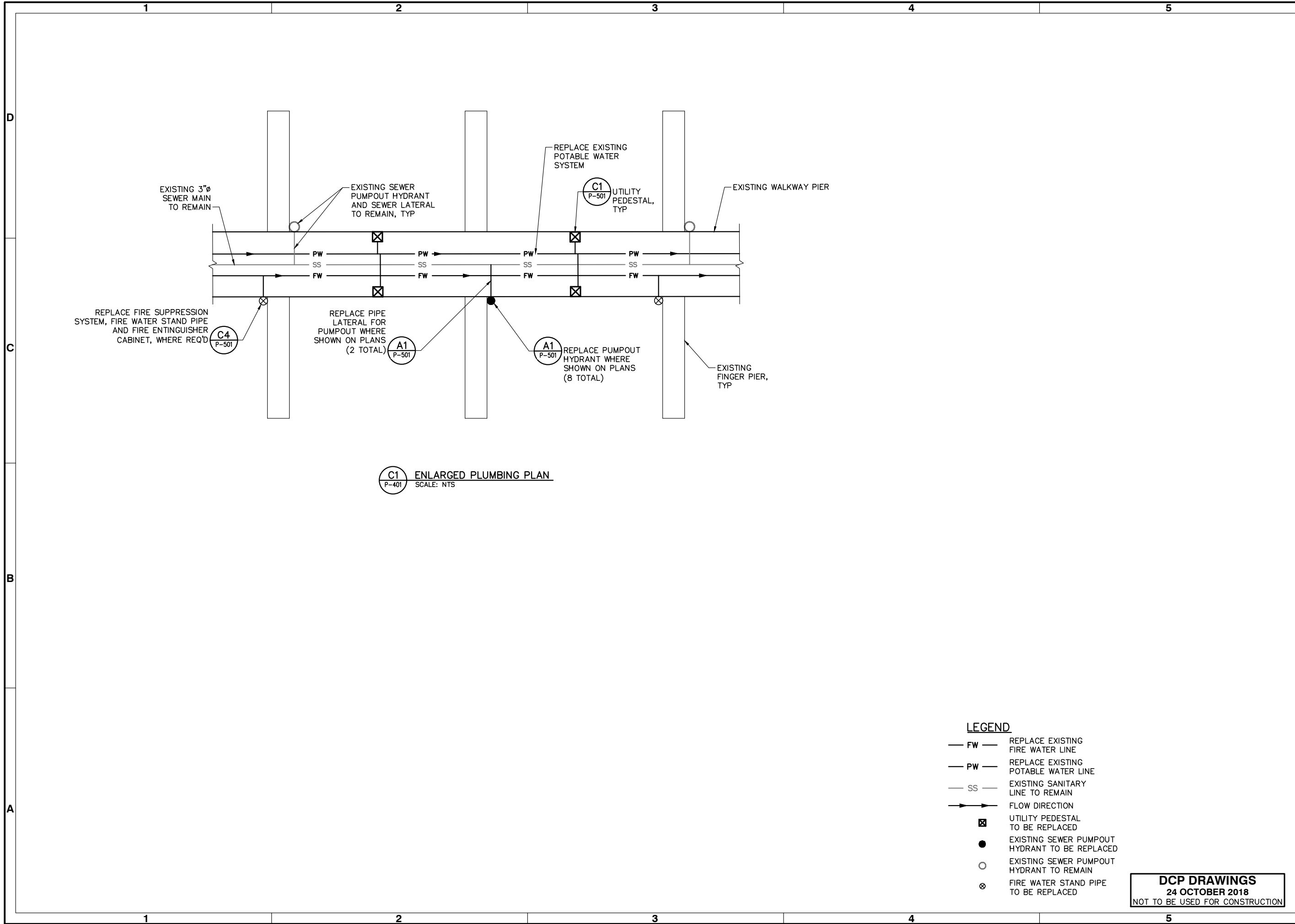
PIER 8 PLUMBING PLAN

DESIGNED BY: DSSN	DRAWN BY: DFT	CHECKED BY: CHKR	REVIEWED BY: REVR	SUBMITTED BY: TIM BLANKENSHIP MOFFATT & NICHOL
DATE:	M&N PROJECT NO.:	DRAWING CODE:	DRAWING SCALE:	PLOT SCALE: 1" (D SHEET)
	9450-08			

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 (FL EB 4877)

SEAL

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C1
P-401
ENLARGED PLUMBING PLAN
SCALE: NTS

LEGEND

- FW — REPLACE EXISTING FIRE WATER LINE
- PW — REPLACE EXISTING POTABLE WATER LINE
- SS — EXISTING SANITARY LINE TO REMAIN
- FLOW DIRECTION
- ☒ UTILITY PEDESTAL TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO BE REPLACED
- EXISTING SEWER PUMPOUT HYDRANT TO REMAIN
- ⊗ FIRE WATER STAND PIPE TO BE REPLACED

DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION



Mark	Description	Date	Appr.

**DINNER KEY MARINA
DCP DRAWINGS**
ENLARGED PLUMBING PLAN

Designed by: DSGN Tim	Checked by: CHKR CHR	Date: DATE	Rev. / Rev. No.
Drawn by: DRFT TIM	Reviewed by: REVR TIM	M&N Project No. 9450-08	Project No. 9450-08
Submitted by: MOFFATT & NICHOL		Drawing code:	Drawing Scale: Plot scale: 1:1 (0 SHEET)

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305-230-1924
(FL EB 4877)

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Sheet Reference No.
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POWER SYSTEM BID REQUIREMENT

- 1. THESE PLANS INDICATE THE GENERAL LOCATIONS OF POWER PEDESTALS, LIGHTING FIXTURES, AND MECHANICAL EQUIPMENT. THE DESIGN-BUILD TEAM (DB) SHALL BE REQUIRED TO PROVIDE ALL ITEMS SHOWN AND ALL ITEMS NECESSARY TO SERVE THE VARIOUS ITEMS INCLUDING ELECTRICAL POWER CONDUIT & WIRING AND COMMUNICATIONS CONDUIT TO THE VARIOUS PEDESTALS AND OTHER ITEMS SHOWN ON THE DRAWINGS AND RFP DOCUMENTS. POWER SHALL BE DISTRIBUTED TO THE POWER PEDESTALS VIA PANELBOARDS SUPPORTED ON THE PIERS. ALL PANELBOARDS SHALL BE HOUSED IN NEMA 3R STAINLESS STEEL ENCLOSURES. ENCLOSURES MOUNTED ON THE PIERS CANNOT EXCEED 24 INCHES IN DEPTH.
2. PRIOR TO COMMENCING CONSTRUCTION, THE DB SHALL PROVIDE A COMPLETE SHOP DRAWING SET DEPICTING THE PROPOSED POWER SINGLE LINE DIAGRAM(S). THE SINGLE LINE DIAGRAM(S) SHALL INCLUDE PANELBOARD RATINGS AND MAIN FEEDER SIZES. ALL CONDUCTORS AND THEIR RESPECTIVE CONDUITS SHALL BE SIZED FOR ALL CIRCUIT RUNS AND THE RESULTS SHALL BE LISTED IN A TABLE OR DEPICTED ON A PLAN VIEW OF THE MARINA. CALCULATED VOLTAGE DROPS FOR ALL CIRCUITS SHALL BE INDICATED ALONG WITH THE CONDUCTOR AND CONDUIT INFORMATION. THE VOLTAGE DROP OF ANY CIRCUIT SHALL NOT EXCEED 5% OF THE CIRCUIT VOLTAGE. A PLAN VIEW OF THE MARINA SHALL BE PROVIDED INDICATING THE LOCATION OF ALL PANELBOARDS, POWER PEDESTALS AND ROUTING OF CONDUITS. SHOW MOUNTING DETAILS OF SUBSTATIONS, PANELBOARDS AND PEDESTALS ON THE SHOP DRAWINGS. THE DB'S PROPOSAL SHALL BE REVIEWED BY THE OWNER REPRESENTATIVE. NO ELECTRICAL EQUIPMENT SHALL BE INSTALLED PRIOR TO PROPOSAL APPROVAL BY THE OWNER REPRESENTATIVE.

ELECTRICAL GENERAL NOTES

- 1. GENERAL CONDITIONS:
A. UNDER THIS SECTION THE DB 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 BY UNLESS SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW AND SHALL BE PROVIDED FOR THE DB UNLESS SPECIFICALLY INDICATED OTHERWISE.
B. PROVIDE IS DEFINED TO MEAN THAT THE DB 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. DB SHALL GIVE REQUIRED NOTICES, OBTAIN ALL NECESSARY PERMITS, AND PAY PERMIT FEES.
D. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT OF THE WORK. MINOR VARIATIONS IN LOCATION OF EQUIPMENT SHALL BE MADE UPON WRITTEN APPROVAL OF THE OWNER REPRESENTATIVE 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).
(14) ILLUMINATING ENGINEERING SOCIETIES (IES)
(15) WI-FI ALLIANCE (WI-FI)

- 2. SUBSTANTIAL COMPLETION: UPON COMPLETION OF THE ENTIRE WORK, THE DB SHALL PERFORM SUCH TESTS AS REQUIRED BY THE OWNER. THE OWNER SHALL BE GIVEN 48 HOURS NOTICE BEFORE TESTS ARE MADE. THE DB SHALL FURNISH THE ENGINEER A CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
3. WARRANTY: DB SHALL FURNISH WRITTEN WARRANTY, COUNTERSIGNED, AND GUARANTEED BY THE DB, STATING THAT THE WORK EXECUTED UNDER THIS DIVISION OF THE SPECIFICATIONS 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.
4. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS. DB SHALL PROVIDE OWNER WITH COMPLETE OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
5. SIX COMPLETE SCHEDULES OF MATERIALS AND EQUIPMENT PROPOSED FOR INSTALLATION SHALL BE SUBMITTED TO THE ENGINEER WITHIN 30 DAYS AFTER AWARD OF THE CONTRACT. THE SCHEDULES SHALL INCLUDE CATALOG CUTS, DIAGRAMS AND SUCH OTHER DESCRIPTIVE DATA AND/OR SAMPLES AS MAY BE REQUIRED BY THE ENGINEER. LIGHTING FIXTURE SUBMITTALS SHALL INCLUDE PHOTOMETRIC REPORTS BY INDEPENDENT TESTING LABORATORIES FOR EACH FIXTURE INDICATED BASED ON IES PUBLISHED PROCEDURES.

6. SUBMITTALS THAT DO NOT BEAR THE GENERAL DB'S STAMP OF APPROVAL THEREON WILL BE REJECTED WITHOUT REVIEW.

- 2. GENERAL MATERIAL REQUIREMENTS:
A. EQUIPMENT AND PRODUCTS TO BE USED SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR TO PLACING ORDER OR PURCHASE.
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 CONDUIT BODIES, FITTINGS AND MOUNTING HARDWARE INSTALLED OUTSIDE SHALL BE APPROVED WEATHERTIGHT CORROSION RESISTANT (STAINLESS STEEL), UNLESS NOTED OTHERWISE.
D. DB 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 INSTALLATION LOCATION IN A SOUND UNDAMAGED CONDITION.
E. STARTERS, CONTROLLERS, INDICATING LIGHTS, ETC.; AND CONTROL WIRING AND WIRING FOR REMOTE STATIONS REGARDLESS OF VOLTAGE SHALL BE PROVIDED UNDER THE DIVISION PROVIDING THE RESPECTIVE MOTOR AND/OR EQUIPMENT UNLESS OTHERWISE INDICATED.
F. 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.
G. PANELBOARDS, ENCLOSED CIRCUIT BREAKERS AND SAFETY SWITCHES, WHEN APPLICABLE, SHALL BE MANUFACTURED BY THE SAME MANUFACTURER. WIRING DEVICES SHALL BE MANUFACTURED BY ONE MANUFACTURER.
H. SUBSTITUTION OF MATERIAL AND EQUIPMENT: THE NAME OF A CERTAIN BRAND, MAKE, MANUFACTURER OR DEFINITE SPECIFICATION IS TO DENOTE THE QUALITY STANDARD OF ARTICLE DESIRED. SUBSTITUTION OF ANY OTHER BRAND, MAKE, OR MANUFACTURER, WHICH IN THE OPINION OF THE ENGINEER IS RECOGNIZED THE EQUAL OF THAT SPECIFIED MAY BE ACCEPTED.
I. PROVIDE ENGRAVED PLASTIC NAMEPLATES ON ALL DISTRIBUTION EQUIPMENT AND PANELS, SECURED BY MEANS OF STAINLESS STEEL RIVETS. TAPES AND ADHESIVES ARE NOT ACCEPTABLE.
J. UNLESS NOTED OTHERWISE, ALL PANEL BUSES, FEEDER CONDUCTORS AND BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRE SHALL BE UL LISTED, RATED FOR 600 VOLTS, NO. 12 MINIMUM SIZE, UNLESS NOTED OTHERWISE.
K. 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 AND RUN CONCEALED, EXCEPT AS INDICATED.
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 DB SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER, WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL DB SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED BUILDING CODE AND ALL LOCAL ORDINANCES.
D. SCHEDULING, LINE SHUTDOWN, DRAINAGE, TIE-IN, CONDUIT 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 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 LOCAL AUTHORITY HAVING JURISDICTION.
E. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL WITNESS TESTING.
F. DB SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. PROPERTY OWNERS SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF SHUTDOWN. THE DB 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. DB 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, DB 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. DIELECTRIC COUPLINGS/FLANGES SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS.
I. THE ELECTRICAL DB 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..
J. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NATIONAL ELECTRICAL CODE. POWER CONDUITS SHALL HAVE AN INSULATED COPPER, CODE SIZED GROUND WIRE INSTALLED.
K. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.

- 4. CONDUIT REQUIREMENTS:
A. ALL CONDUIT SHALL FOLLOW THE GENERAL ARRANGEMENT SHOWN. CONDUIT SHALL BE RUN ESSENTIALLY AS INDICATED, 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. THE DB SHALL ENSURE SUFFICIENT CONDUIT FLEXIBILITY AND ANCHORAGE IS PROVIDED FOR ALL LINES FOR THERMAL EXPANSION AND CONTRACTION, PRESSURE AND FLEXING. THE STRUCTURE AND COMPONENTS SHALL ACCOMMODATE THE CONDUIT LAYOUT REQUIREMENTS SUCH THAT THE CONDUIT SHALL NOT BECOME OVERSTRESSED. THE CONDUIT SHALL BE PROPERLY SUPPORTED AND ANCHORED.
C. CONDUIT AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
(1) RIGID STEEL - ANSI C80 (HOT DIPPED GALVANIZED).
(2) PLASTIC CONDUIT (PVC) - NEMA TC-2 AND TC-3.
(3) LIQUID-TIGHT FLEXIBLE METAL CONDUIT - UL-360.
D. CONDUIT SHALL BE RUN CONCEALED, EXCEPT CONDUIT MAY BE EXPOSED AS APPROVED BY THE ENGINEER. WHERE FLEXIBILITY IS REQUIRED, PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT EXCEPT AS INDICATED OTHERWISE. CONDUITS RUN EXPOSED SHALL BE GALVANIZED RIGID STEEL.
E. MINIMUM SIZE CONDUIT SHALL BE THREE-QUARTER INCH WITH LARGER SIZES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR NUMBER OF WIRES CONTAINED THEREIN. CONDUITS FOR COMMUNICATIONS CIRCUITS SHALL BE THREE QUARTER INCH DIAMETER MINIMUM FOR A SINGLE CABLE, ONE INCH DIAMETER MINIMUM FOR MORE THAN ONE CABLE AND LARGER CONDUIT DIAMETERS AS DIRECTED BY TIA AND BICSI RECOMMENDATIONS.
F. RIGID CONDUIT FITTINGS SHALL BE THREADED.
G. FLEXIBLE CONDUIT SHALL HAVE A PLASTIC COVERING IN ACCORDANCE WITH NEC. FITTINGS SHALL BE STANDARD UL APPROVED WITH GROUND CONNECTOR. WATER TIGHT CONNECTORS SHALL BE USED WITH FLEXIBLE CONDUIT, MINIMUM 18 INCHES IN LENGTH, SHALL BE USED FOR CONNECTIONS TO MOTORS, DRY TYPE SUBSTATIONS AND OTHER EQUIPMENT SUBJECT TO VIBRATION.
H. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURES AND SHALL BE SUPPORTED AS SPECIFIED AND IN ACCORDANCE WITH NEC.
I. CONDUIT SUPPORTS SHALL BE APPROVED WALL BRACKETS, TO METAL SURFACES WITH MACHINE SCREWS; AND TO WOOD WITH WOOD SCREWS. ANY FORM OF TIE WIRE IS UNACCEPTABLE.
J. PROVIDE EXPANSION FITTINGS WHERE CONDUITS CROSS EXPANSION JOINTS. PROVIDE SLIP JOINTS AS NECESSARY FOR THERMAL EXPANSION AND CONTRACTION.
K. CONDUIT TERMINATIONS AND CONDUIT STUBS SHALL HAVE INSULATING BUSHINGS.
L. CONDUITS PASSING THROUGH BULKHEADS, CONCRETE WALLS, FLOORS OR FOOTINGS AND SLAB ON GRADE SHALL BE MADE WATER TIGHT. PROVIDE PIPE SLEEVES WITH ONE-HALF INCH MINIMUM CLEARANCE AROUND THE CONDUIT AND CAULK WITH ASKUM AND SEALANT.
M. PROVIDE 12" MINIMUM SEPARATION BETWEEN ELECTRICAL DUCT AND OTHER UTILITIES.

- 5. WIRING REQUIREMENTS:
A. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND PRIOR TO COMPLETION OF PROJECT.
B. WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT EXCEPT AS SPECIFICALLY INDICATED OTHERWISE
C. WIRE AND CABLE SHALL BE COPPER, 600 VOLT INSULATION, MINIMUM SIZE NO. 12, TYPE "THWN" OR "XHHW" AS APPLICABLE, UNLESS OTHERWISE INDICATED ON DRAWINGS.
D. WIRES NO. 10 AND 12 AWG SHALL BE CONNECTED WITH COIL SPRING INSERT "WIRE-NUT" OR "WING-NUT" CONNECTORS MANUFACTURED BY IDEAL INDUSTRIES OR APPROVED EQUAL CONNECTORS SHALL BE RATED 600 VOLTS.
E. WIRE SHALL BE COLOR CODED AS FOLLOWS:
480Y/277V SYSTEM 120/240V 1 PH SYSTEM
PH A - BRN PH A - BLK
PH B - ORN PH B - RED
PH C - YEL NEUT - WHT W/GRY STRIPE
NEUT - GRY GND - GRN W/YEL STRIPE GND - GRN GND - GRN W/WHT STRIPE

LEGEND (REFER TO RFP DOCUMENTS)

- (A1) 1-30 AMP SINGLE SLIP PEDESTAL
(A2) 2-30 AMP DUAL SLIP PEDESTAL
(B1) 1-30 AMP & 1-50 AMP SINGLE SLIP PEDESTAL
(B2) 1-30 AMP & 2-50 AMP DUAL SLIP PEDESTAL
(C1) 2-50 AMP SINGLE SLIP PEDESTAL
(C2) 4-50 AMP DUAL SLIP PEDESTAL
(D1) 2-50 AMP & 1-100 AMP SINGLE SLIP PEDESTAL
(D2) 4-50 AMP & 2-100 AMP DUAL SLIP PEDESTAL
PANELBOARD
MARINE SUBSTATION
LIGHT BOLLARD
TRANSFORMER
SOLAR NAVIGATION LIGHT (CARMANA STYLE OR EQUAL)

NOTE: PROVIDE 30mA CIRCUIT BREAKERS IN PEDESTAL FOR ALL 30 AMP AND 50 AMP SHORE POWER RECEPTACLES.

DCP DRAWINGS
24 OCTOBER 2018
NOT TO BE USED FOR CONSTRUCTION

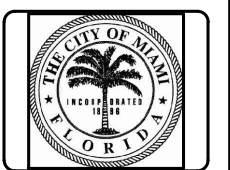
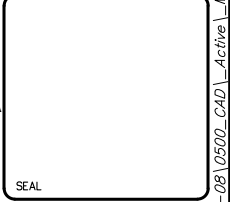


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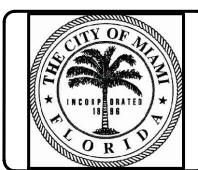
DINNER KEY MARINA
DCP DRAWINGS
ELECTRICAL NOTES, ABBREVIATIONS AND LEGEND

Table with columns: Date, Rev., M&N Project No., Drawing code, Drawing Scale, Plot scale: 1:1 (D SHEET)

2937 SW 27th AVE, STE 101A COCONUT GROVE, FL 33133
305-230-1924
moffett & nichol
Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL



Sheet Reference No. E-001
INDEX: 52 OF 68



Rev.	Date	Description

DINNER KEY MARINA
DCP DRAWINGS

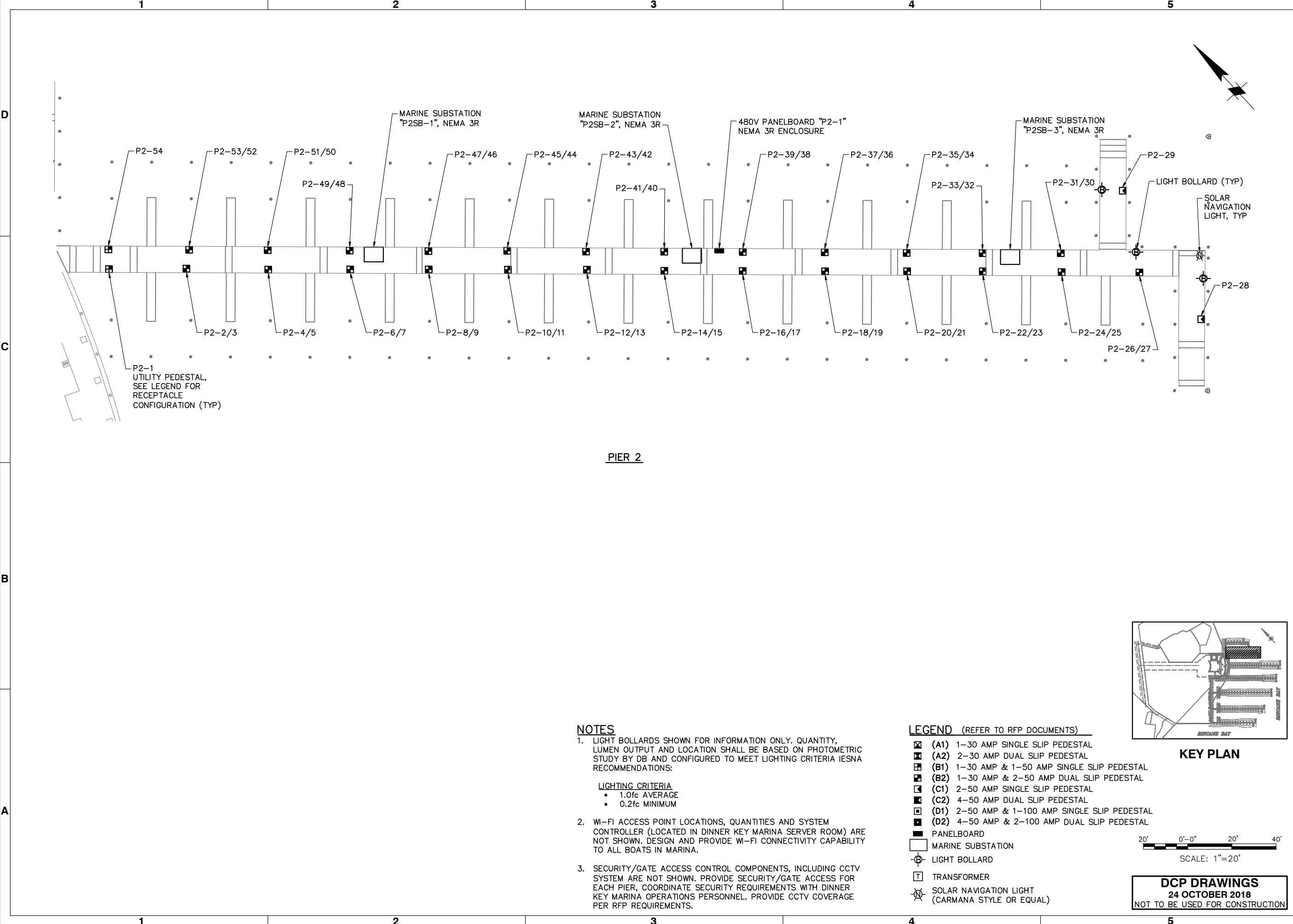
PIER 2 ELECTRICAL PLAN

Designed by: DLA	Drawn by: JMJ	Checked by: DCM	Reviewed by: DJS	Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL	Plot scale: 1:1 (D SHEET)
Date: 10/17/18	M&N Project No. 9450-08	Drawing code:	Drawing Scale:		

2937 SW 27th AVE. STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

SEAL

Sheet Reference No.
E-102
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PIER 2

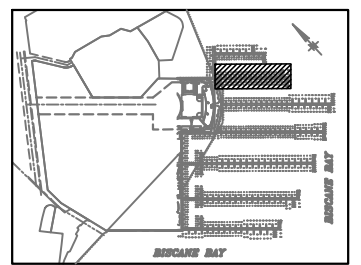
NOTES

- LIGHT BOLLARDS SHOWN FOR INFORMATION ONLY. QUANTITY, LUMEN OUTPUT AND LOCATION SHALL BE BASED ON PHOTOMETRIC STUDY BY DB AND CONFIGURED TO MEET LIGHTING CRITERIA IESNA RECOMMENDATIONS:

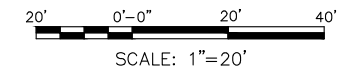
LIGHTING CRITERIA
 - 1.0fc AVERAGE
 - 0.2fc MINIMUM
- WI-FI ACCESS POINT LOCATIONS, QUANTITIES AND SYSTEM CONTROLLER (LOCATED IN DINNER KEY MARINA SERVER ROOM) ARE NOT SHOWN. DESIGN AND PROVIDE WI-FI CONNECTIVITY CAPABILITY TO ALL BOATS IN MARINA.
- SECURITY/GATE ACCESS CONTROL COMPONENTS, INCLUDING CCTV SYSTEM ARE NOT SHOWN. PROVIDE SECURITY/GATE ACCESS FOR EACH PIER, COORDINATE SECURITY REQUIREMENTS WITH DINNER KEY MARINA OPERATIONS PERSONNEL. PROVIDE CCTV COVERAGE PER RFP REQUIREMENTS.

LEGEND (REFER TO RFP DOCUMENTS)

- (A1) 1-30 AMP SINGLE SLIP PEDESTAL
- (A2) 2-30 AMP DUAL SLIP PEDESTAL
- (B1) 1-30 AMP & 1-50 AMP SINGLE SLIP PEDESTAL
- (B2) 1-30 AMP & 2-50 AMP DUAL SLIP PEDESTAL
- (C1) 2-50 AMP SINGLE SLIP PEDESTAL
- (C2) 4-50 AMP DUAL SLIP PEDESTAL
- (D1) 2-50 AMP & 1-100 AMP SINGLE SLIP PEDESTAL
- (D2) 4-50 AMP & 2-100 AMP DUAL SLIP PEDESTAL
- PANELBOARD
- MARINE SUBSTATION
- LIGHT BOLLARD
- TRANSFORMER
- SOLAR NAVIGATION LIGHT (CARMANA STYLE OR EQUAL)



KEY PLAN



DCP DRAWINGS
24 OCTOBER 2018
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

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Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

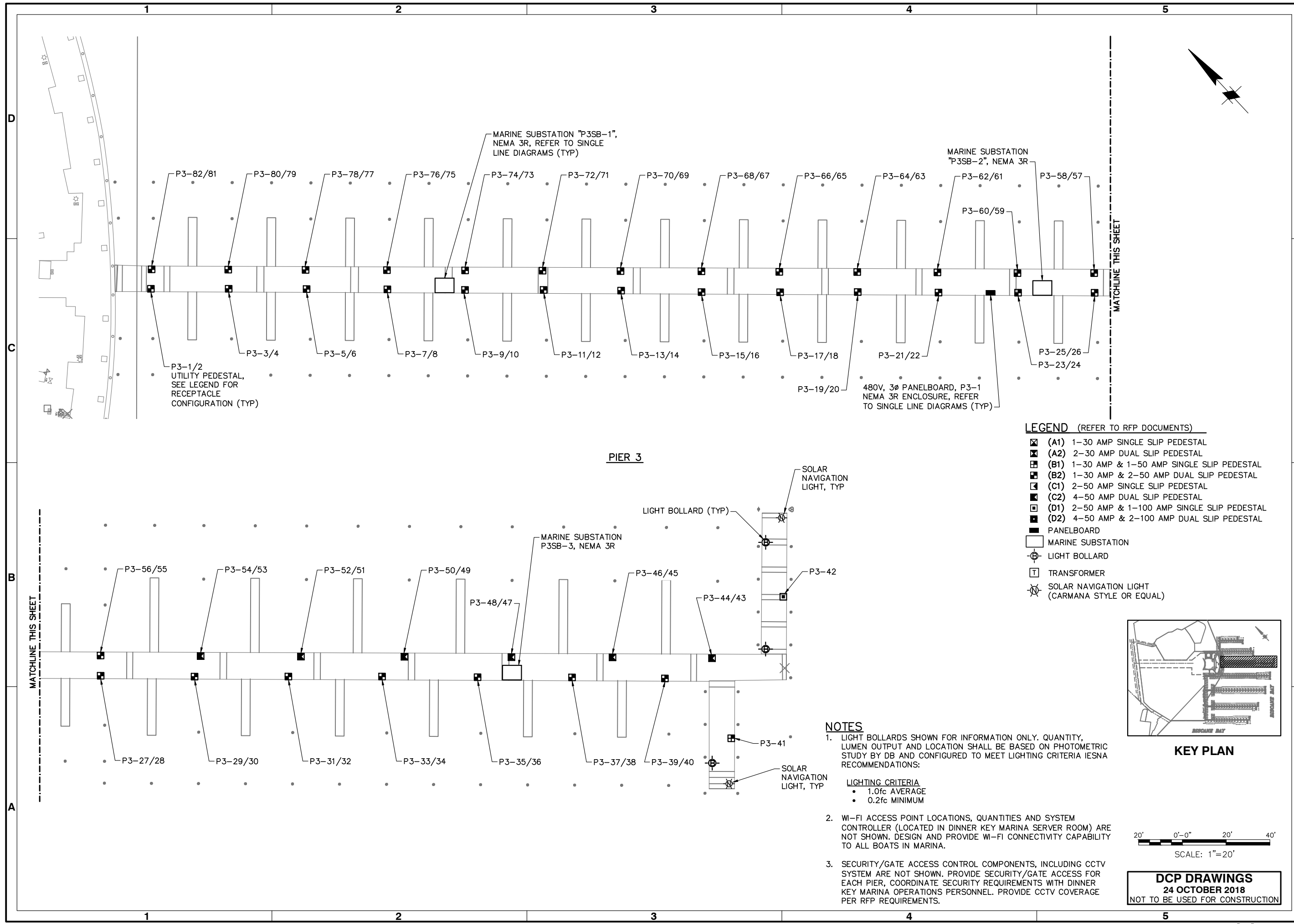
PIER 3 ELECTRICAL PLAN

Designed by: DLA	Checked by: JMJ	Reviewed by: DJS	Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL
Date: 10/17/18	M&N Project No. 9450-08	Drawing code:	Drawing Scale: Per scale: 1" = 20'

2937 SW 27th Ave, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
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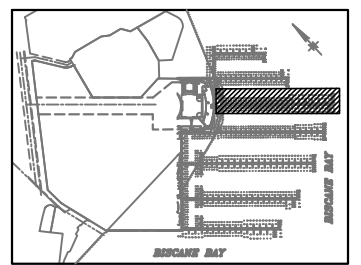


- LEGEND (REFER TO RFP DOCUMENTS)**
- ☒ (A1) 1-30 AMP SINGLE SLIP PEDESTAL
 - ☒ (A2) 2-30 AMP DUAL SLIP PEDESTAL
 - ☒ (B1) 1-30 AMP & 1-50 AMP SINGLE SLIP PEDESTAL
 - ☒ (B2) 1-30 AMP & 2-50 AMP DUAL SLIP PEDESTAL
 - ☒ (C1) 2-50 AMP SINGLE SLIP PEDESTAL
 - ☒ (C2) 4-50 AMP DUAL SLIP PEDESTAL
 - ☒ (D1) 2-50 AMP & 1-100 AMP SINGLE SLIP PEDESTAL
 - ☒ (D2) 4-50 AMP & 2-100 AMP DUAL SLIP PEDESTAL
 - ▢ PANELBOARD
 - ▭ MARINE SUBSTATION
 - ⊕ LIGHT BOLLARD
 - ⊞ TRANSFORMER
 - ☉ SOLAR NAVIGATION LIGHT (CARMANA STYLE OR EQUAL)

- NOTES**
- LIGHT BOLLARDS SHOWN FOR INFORMATION ONLY. QUANTITY, LUMEN OUTPUT AND LOCATION SHALL BE BASED ON PHOTOMETRIC STUDY BY DB AND CONFIGURED TO MEET LIGHTING CRITERIA IESNA RECOMMENDATIONS:

- LIGHTING CRITERIA**
- 1.0fc AVERAGE
 - 0.2fc MINIMUM

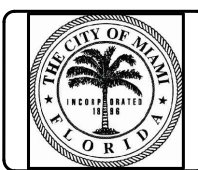
- WI-FI ACCESS POINT LOCATIONS, QUANTITIES AND SYSTEM CONTROLLER (LOCATED IN DINNER KEY MARINA SERVER ROOM) ARE NOT SHOWN. DESIGN AND PROVIDE WI-FI CONNECTIVITY CAPABILITY TO ALL BOATS IN MARINA.
- SECURITY/GATE ACCESS CONTROL COMPONENTS, INCLUDING CCTV SYSTEM ARE NOT SHOWN. PROVIDE SECURITY/GATE ACCESS FOR EACH PIER, COORDINATE SECURITY REQUIREMENTS WITH DINNER KEY MARINA OPERATIONS PERSONNEL. PROVIDE CCTV COVERAGE PER RFP REQUIREMENTS.



20' 0'-0" 20' 40'
SCALE: 1"=20'

DCP DRAWINGS
24 OCTOBER 2018
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**DINNER KEY MARINA
DCP DRAWINGS**

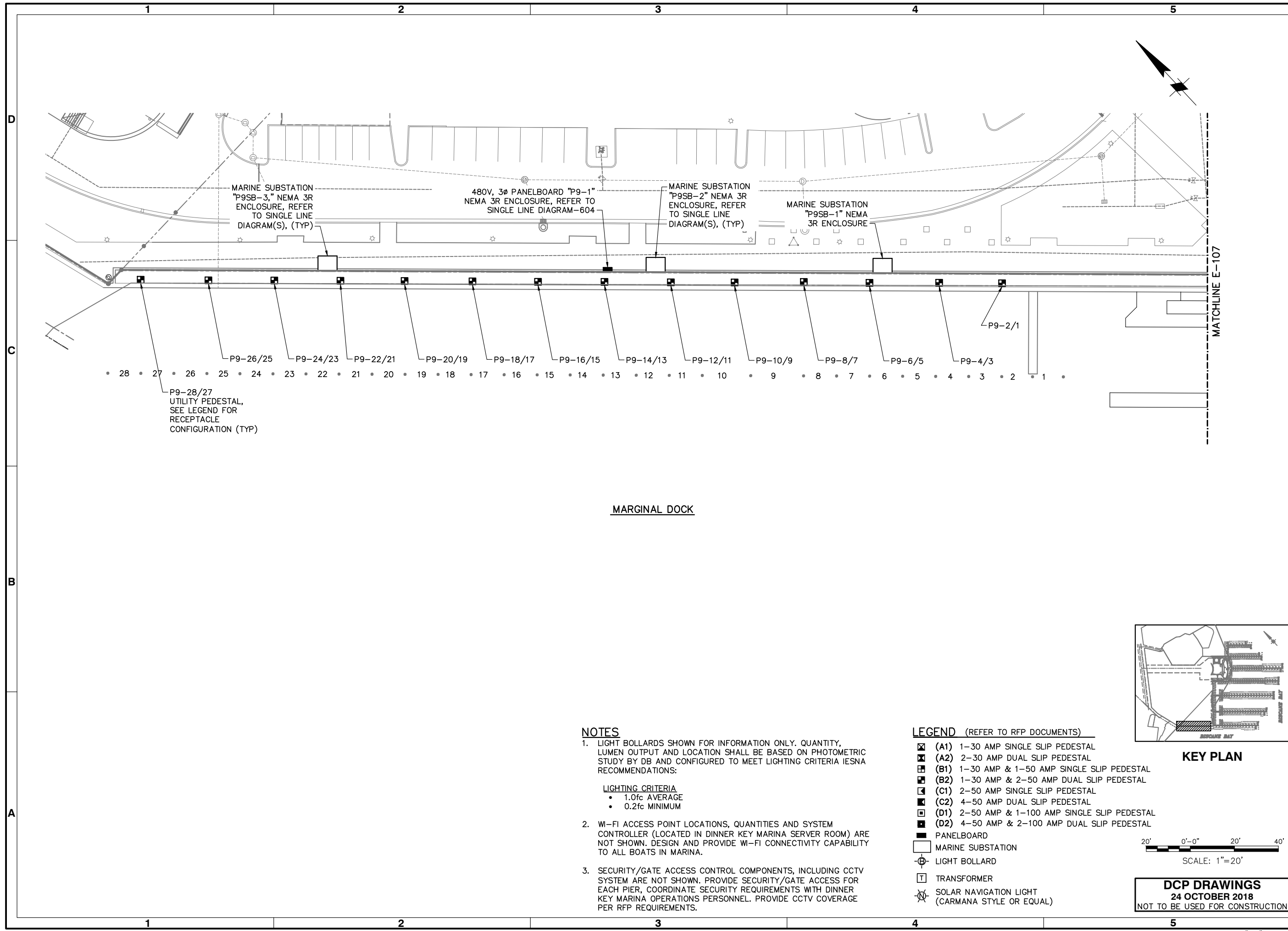
**MARGINAL DOCK
ELECTRICAL PLAN**

Designed by: DLA	Date: 10/17/18	Rev.:
Dwn by: JMJ	M&N Project No. 9450-08	
Reviewed by: DJS	Drawing code:	
Submitted by: TIM BLANKENSHIP MOFFATT & NICHOL	Drawing Scale:	Plot scale: 1:1 (D SHEET)

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305-230-1924
(FL EB 4877)

SEAL

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MARGINAL DOCK

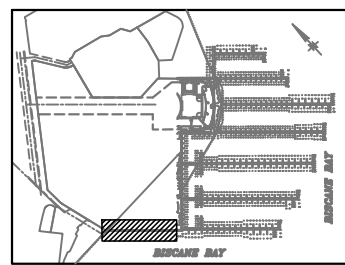
NOTES

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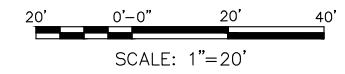
LIGHTING CRITERIA
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 - 0.2fc MINIMUM
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LEGEND (REFER TO RFP DOCUMENTS)

- ☒ (A1) 1-30 AMP SINGLE SLIP PEDESTAL
- ☒ (A2) 2-30 AMP DUAL SLIP PEDESTAL
- ☒ (B1) 1-30 AMP & 1-50 AMP SINGLE SLIP PEDESTAL
- ☒ (B2) 1-30 AMP & 2-50 AMP DUAL SLIP PEDESTAL
- ☒ (C1) 2-50 AMP SINGLE SLIP PEDESTAL
- ☒ (C2) 4-50 AMP DUAL SLIP PEDESTAL
- ☒ (D1) 2-50 AMP & 1-100 AMP SINGLE SLIP PEDESTAL
- ☒ (D2) 4-50 AMP & 2-100 AMP DUAL SLIP PEDESTAL
- PANELBOARD
- MARINE SUBSTATION
- ⊕ LIGHT BOLLARD
- ⊞ TRANSFORMER
- ☼ SOLAR NAVIGATION LIGHT (CARMANA STYLE OR EQUAL)



KEY PLAN



DCP DRAWINGS
24 OCTOBER 2018
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Rev.	Date	Description

**DINNER KEY MARINA
DCP DRAWINGS**

**PEDESTAL
CONFIGURATIONS**

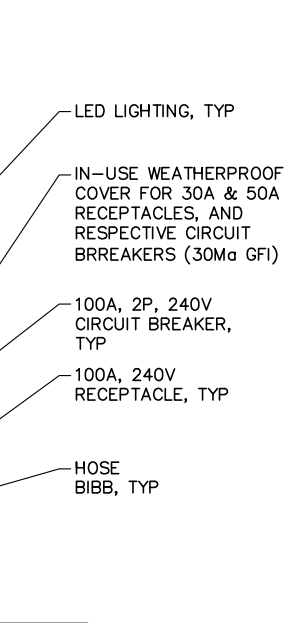
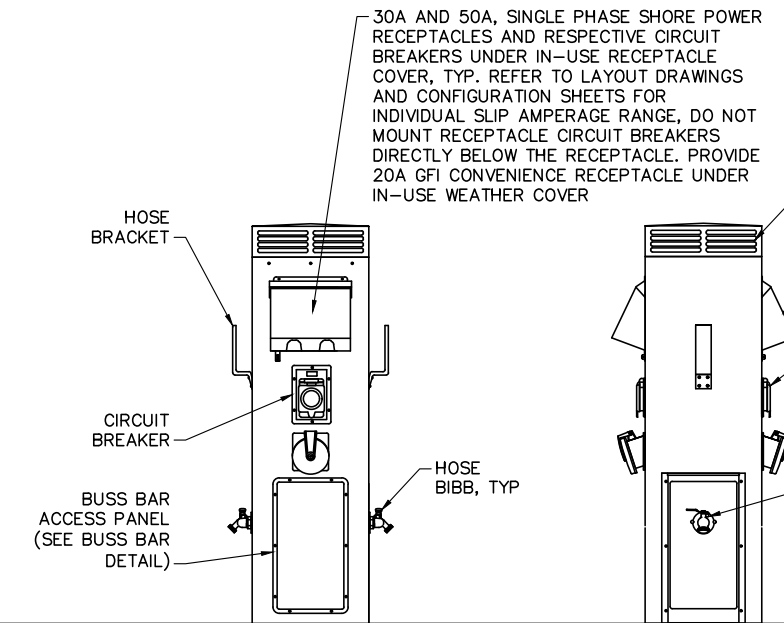
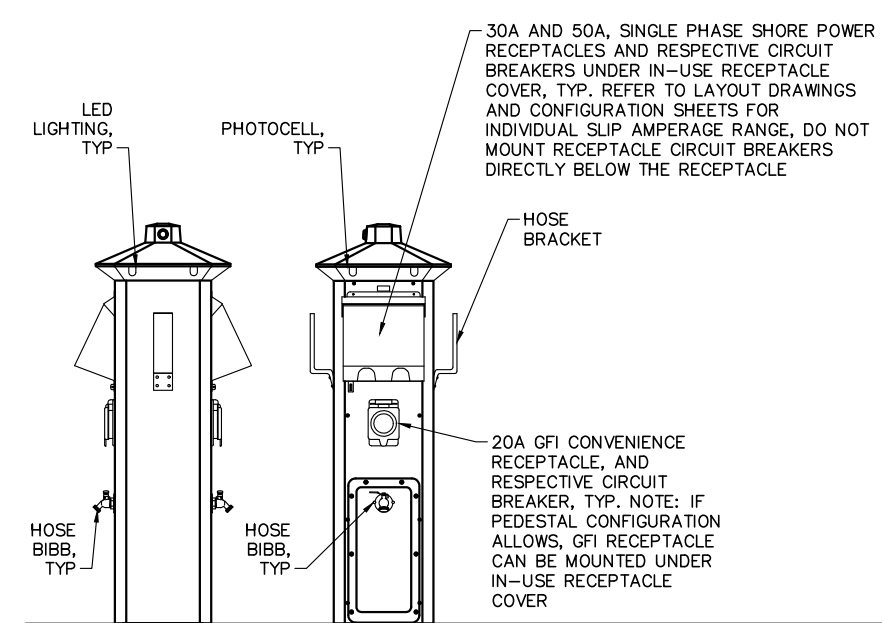
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CHECKED	DATE	REVNO
REVIEWED	DATE	REVNO
DATE	DATE	REVNO
DATE	DATE	REVNO

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(FL EB 4877)

Submitted by:
TIM BLANKENSHIP
MOFFETT & NICHOL

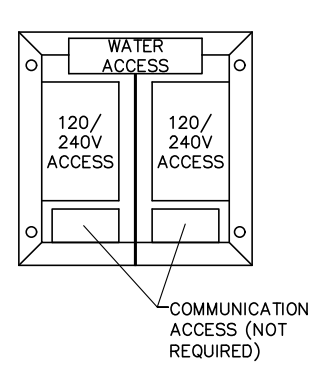
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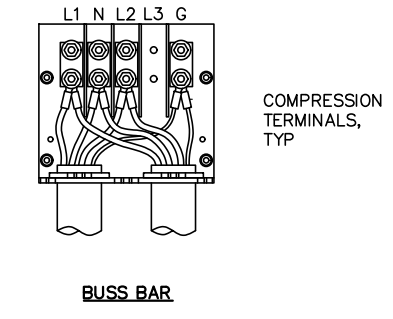


SIDE

FRONT



BASE FOOTPRINT



BUSS BAR

NOTES:

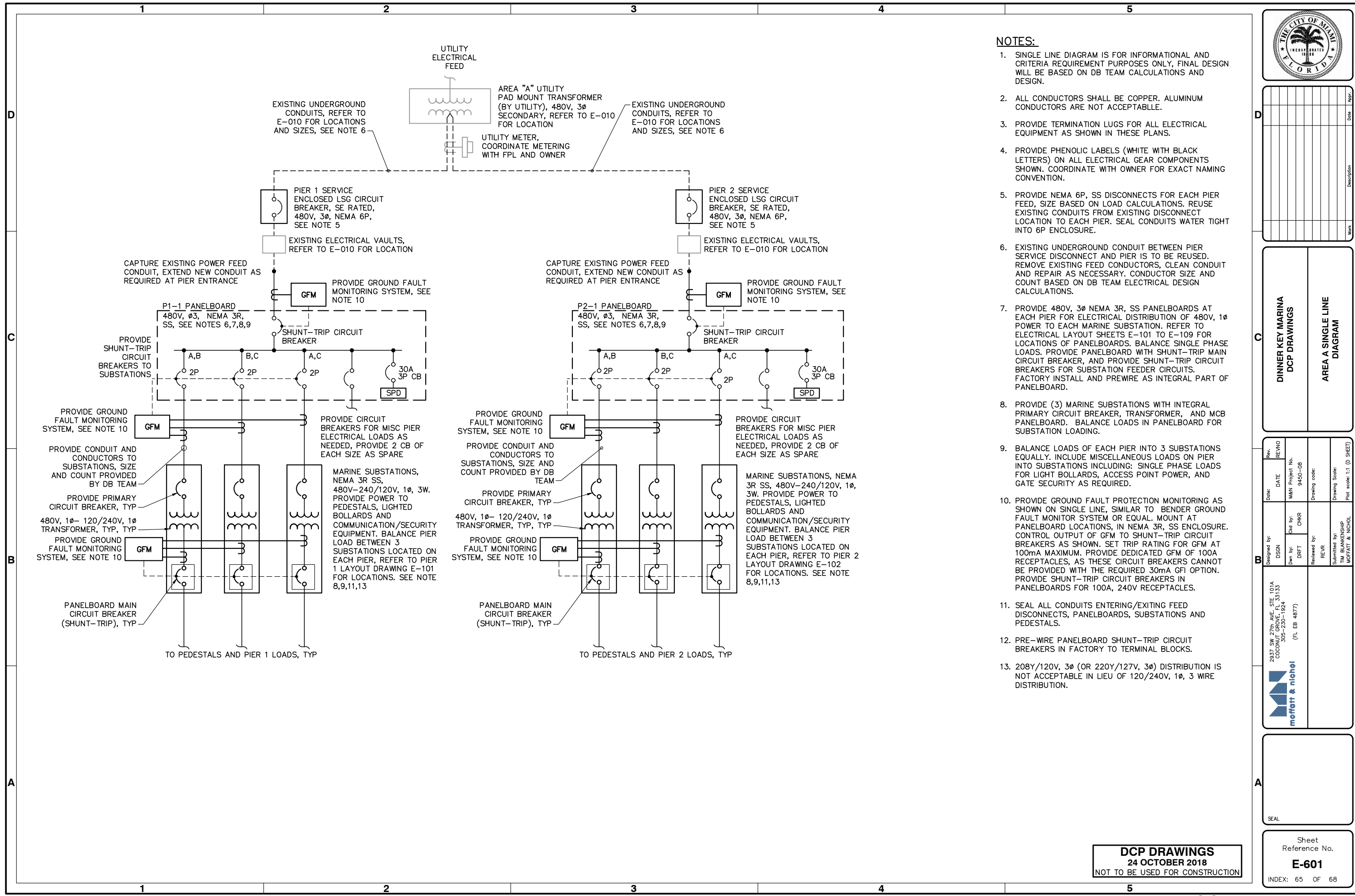
1. PROVIDE ALL PEDESTALS AS POWDER COATED STAINLESS STEEL, TYP.
2. PROVIDE ALL PEDESTALS WITH SINGLE SLIP METERING OF TOTAL ELECTRICAL USAGE. INCLUDE OPTION FOR REMOTE (WI-FI) METERING CAPABILITIES.
3. PROVIDE ALL PEDESTALS WITH LED LIGHTING, INCLUDING INTEGRAL PHOTOCCELL DAY/NIGHT OPERATION CONTROLS.
4. PROVIDE ALL PEDESTALS WITH POTABLE WATER SERVICE FOR EACH SLIP (HOSE BIBB & HOSE BRACKET).
5. DUAL SLIP PEDESTALS SHOWN. ACTUAL PEDESTAL CONFIGURATION (SINGLE / DUAL SLIP) BASED ON MARINA/SLIP LAYOUT AND AMERAGE REQUIREMENTS.
6. FOR PEDESTALS SUPPLIED WITH 100 RECEPTACLES, PROVIDE A MINIMUM RATED 500A SERVICE BUSS ARRANGEMENT.
7. INCLUDE PEDESTAL LIGHTING IN PIER PHOTOMETRIC CALCULATIONS.
8. INTEGRAL COMMUNICATION CONNECTIONS ARE NOT REQUIRED FOR DINNER KEY MARINA.
9. CONTRACTOR NEEDS TO CRIMP TERMINALS TO LINE WIRES AND PLACE ON PROVIDED STUD LUG CONNECTOR.
10. REFER TO MANUFACTURER INSTRUCTIONS AND DETAILS TO ORGANIZE PEDESTAL CONNECTION CONFIGURATIONS. "BASE FOOTPRINT" SHOWN FOR INFORMATIONAL PURPOSES ONLY.
11. PROVIDE ADDITIVE ALTERNATE 3 OPTIONAL BID ITEM FOR SEPERABLE PEDESTAL BASE AND "PEDESTAL HEAD".
12. PROVIDE ADDITIVE ALTERNATE 4 OPTIONAL BID ITEM FOR PEDESTAL GROUND FAULT LEVEL ANDKWH CONSUMPTION VIA WI-FI FOR REMOTE MONITORING. COORDINATE WI-FI MONITORING WITH WI-FI SYSTEM PROVIDER TO FURNISH A COMPLETE AND INTEGRATED SOLUTION.

DCP DRAWINGS
24 OCTOBER 2018
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- PROVIDE TERMINATION LUGS FOR ALL ELECTRICAL EQUIPMENT AS SHOWN IN THESE PLANS.
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Date	Appr

DINNER KEY MARINA
DCP DRAWINGS
AREA A SINGLE LINE
DIAGRAM

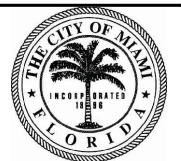
Rev. No.	Rev. No.
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Plot scale: 1:1 (D SHEET)	Plot scale: 1:1 (D SHEET)
Designed by:	Designed by:
DSGN	DSGN
Drawn by:	Drawn by:
DRFT	DRFT
Reviewed by:	Reviewed by:
REVR	REVR
Submitted by:	Submitted by:
TIM BLANKENSHIP	TIM BLANKENSHIP
MOFFATT & NICHOL	MOFFATT & NICHOL

2937 SW 27th AVE, STE 101A
COCONUT GROVE, FL 33133
305-230-1924
(FL EB 4877)

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Rev.	Date	By	Description

DINNER KEY MARINA
DCP DRAWINGS
AREA B SINGLE LINE
DIAGRAM

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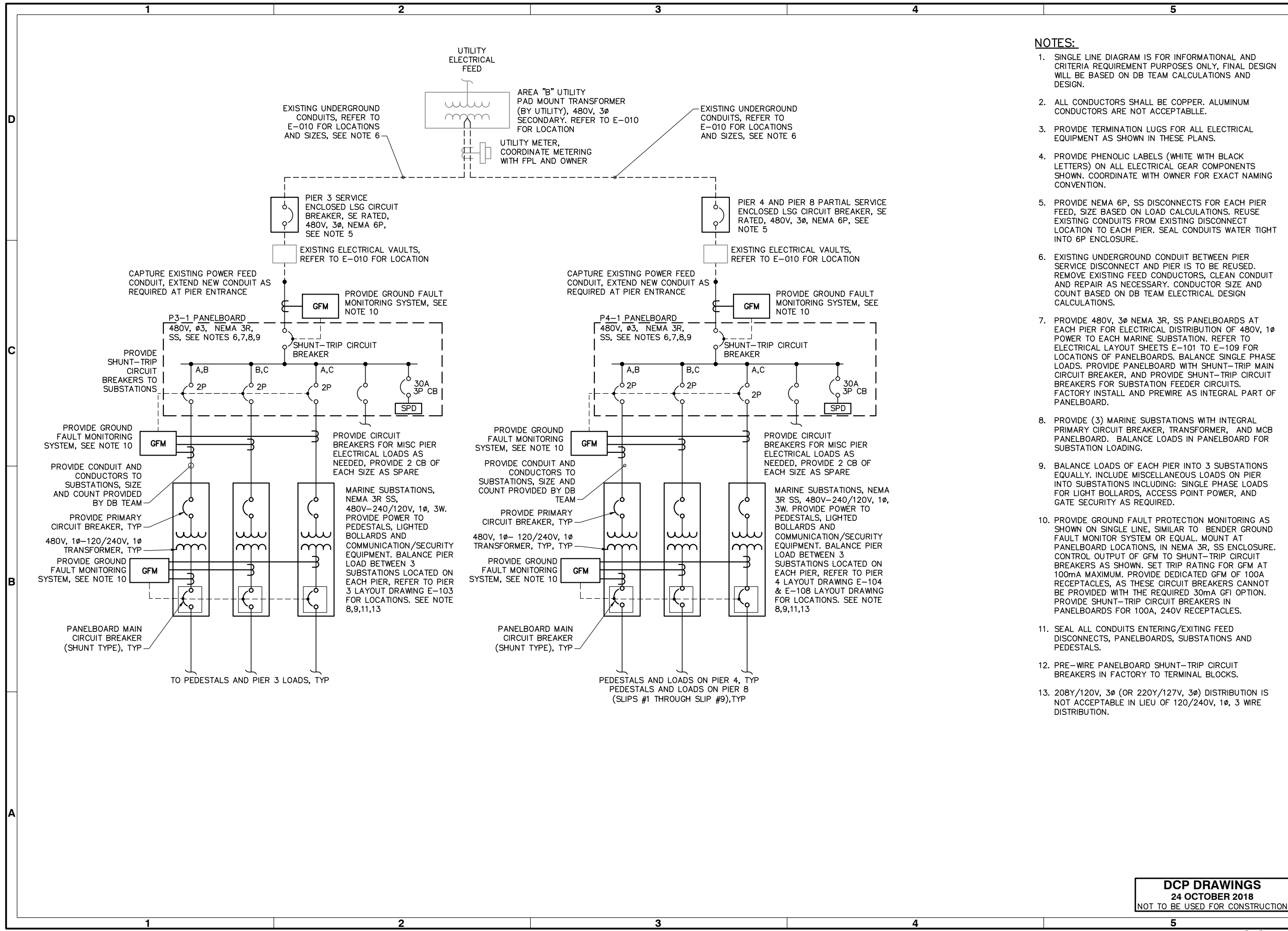
2837 SW 27th AVE, STE 101A
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moffett & nichol

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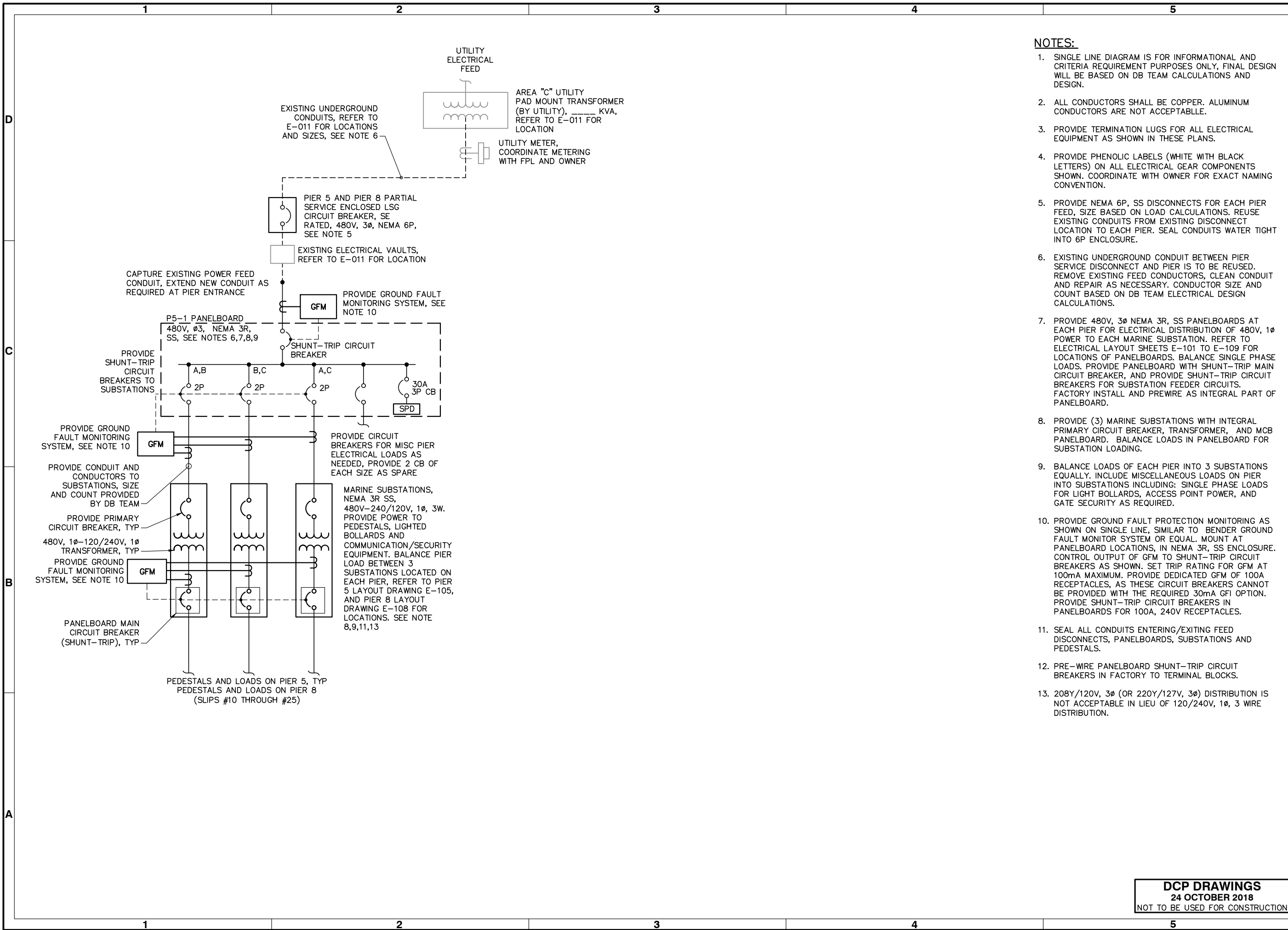
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DCP DRAWINGS**

**AREA C SINGLE LINE
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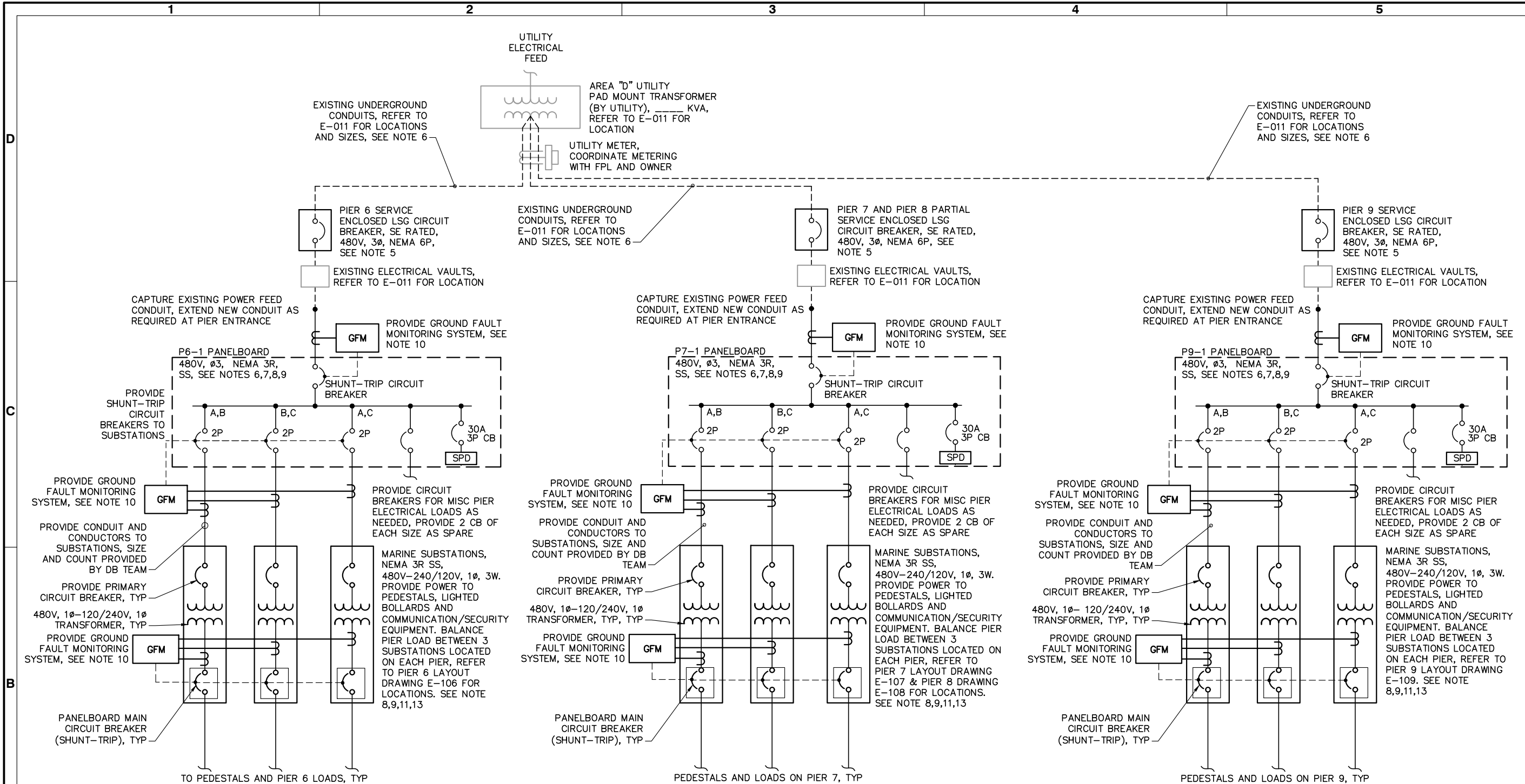
moftett & nichol

Designed by: DSGN	Dwn by: DRFT	Chk by: CHKR	Reviewed by: REVR	Submitted by: TIM BLANKENSHIP MOFFETT & NICHOL	Drawing Scale: As Shown (1:1 ID SHEET)	Plot scale: 1:1 (ID SHEET)
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SEAL

DCP DRAWINGS
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AREA D SINGLE LINE
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DSGN: [] CHKD: []
 DFT: [] REVR: []
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 Drawing Scale: []
 Plot Scale: 1:1 (D SHEET)
 Submitted by: TIM BLANKENSHIP
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