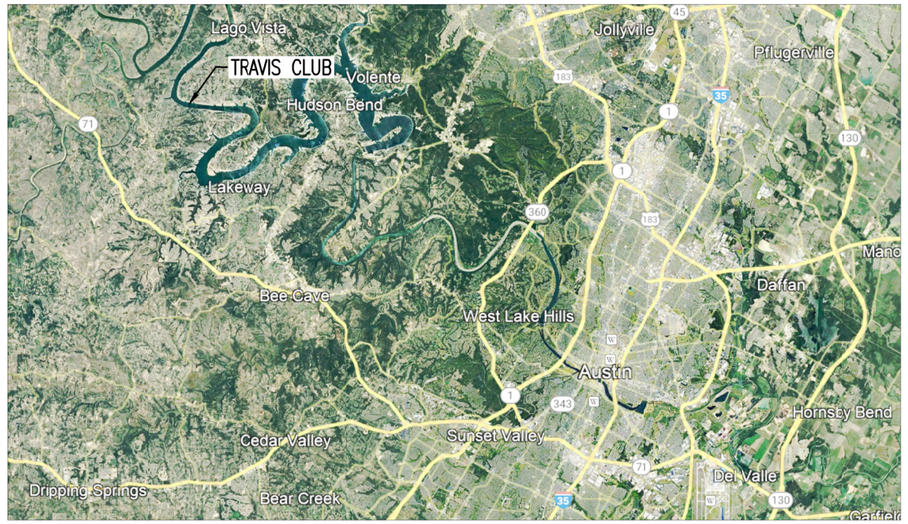
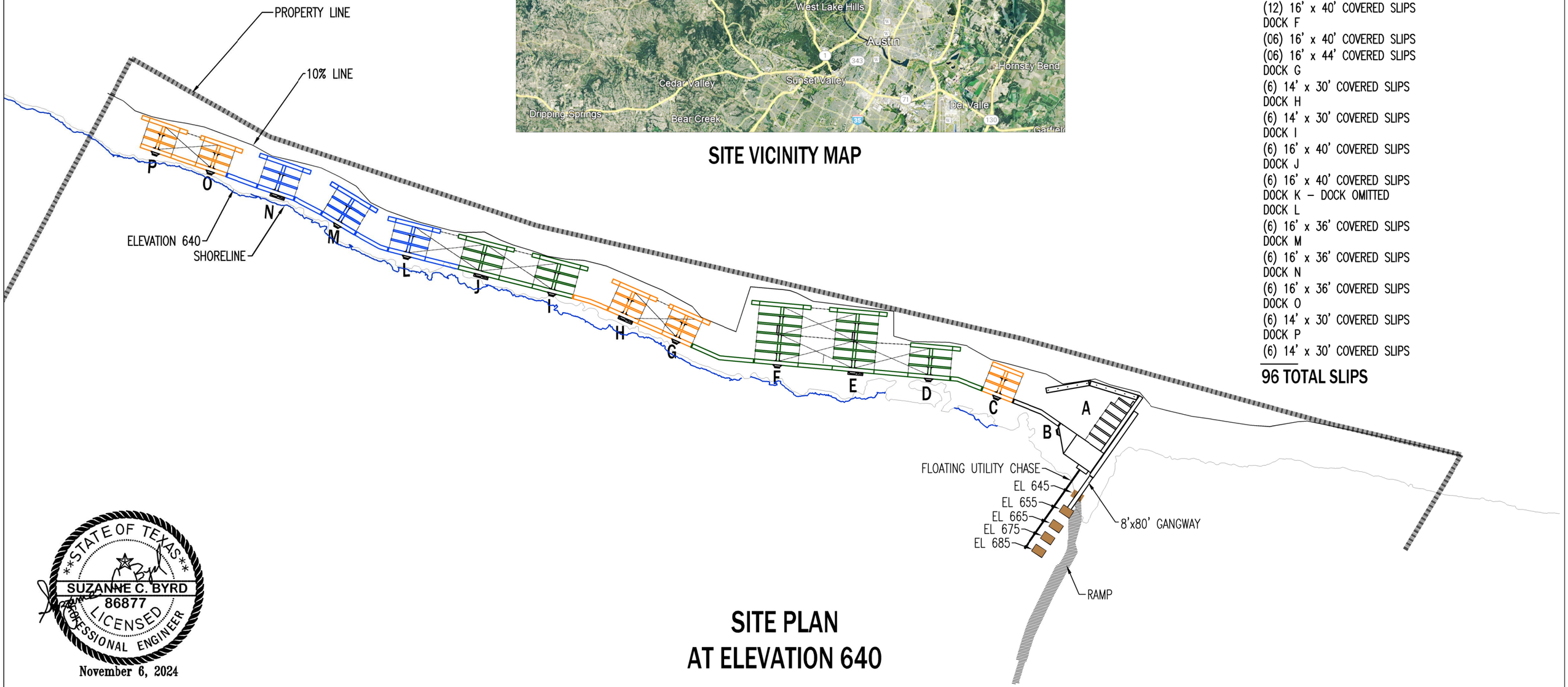


SITE VICINITY MAP



SITE PLAN
AT ELEVATION 640

LEGEND:

DOCK A
(5) 16' x 40' COVERED SLIPS (DRY STORAGE LAUNCH)
(1) 14' x 32' COVERED SLIPS (DRY STORAGE LAUNCH)
APPROX. 200 LF OF 10' WIDE ATTENUATOR
(1) 10' x 160' SLIDING WALKWAY w/ 8' x 80' GANGWAY
DOCK B
(1) 48' x 68' PLATFORM
(1) 1120 S.F. ANGULAR PLATFORM
APPROX. 187 LF OF 8' CONNECTING WALK
DOCK C
(6) 14' x 30' COVERED SLIPS
DOCK D
(6) 16' x 40' COVERED SLIPS
DOCK E
(12) 16' x 40' COVERED SLIPS
DOCK F
(06) 16' x 40' COVERED SLIPS
(06) 16' x 44' COVERED SLIPS
DOCK G
(6) 14' x 30' COVERED SLIPS
DOCK H
(6) 14' x 30' COVERED SLIPS
DOCK I
(6) 16' x 40' COVERED SLIPS
DOCK J
(6) 16' x 40' COVERED SLIPS
DOCK K – DOCK OMITTED
DOCK L
(6) 16' x 36' COVERED SLIPS
DOCK M
(6) 16' x 36' COVERED SLIPS
DOCK N
(6) 16' x 36' COVERED SLIPS
DOCK O
(6) 14' x 30' COVERED SLIPS
DOCK P
(6) 14' x 30' COVERED SLIPS

96 TOTAL SLIPS

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24
2.	REVISED DOCK A LEGEND.	T.G.J.	7/29/24
3.	OMITTED DOCK K AND ADDED TO ALL FAIRWAY SPACING.	T.G.J.	10/16/24
4.	CHANGED DOCKS C AND D + MISC CHANGES.	T.G.J.	10/22/24

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DRAWN BY: TGJ	FILE NAME: (Copy) 8780A-1	
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=200'-0"	DATE: 2/5/24	SHEET 1

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

APPROXIMATE RIVER CHANNEL

NEW MARINA BOUNDARY LINE

PROPERTY LINE

SITE PLAN AT ELEVATION 640

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED RIVER CHANNEL LINE.	T.G.J.	3/26/24
2.	OMITTED DOCK K AND ADDED TO ALL FAIRWAY SPACINMG.	T.G.J.	10/16/24

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CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 0.000431	DATE: 2/5/24	SHEET 2

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

APPROXIMATE RIVER CHANNEL

NEW MARINA BOUNDARY LINE

PROPERTY LINE

SITE PLAN AT ELEVATION 660

STATE OF TEXAS
SUZANNE C. BYRD
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LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED NEW SHEET 2A.	T.G.J.	5/31/24
2.	CHANGED FROM 668 TO 660 ELEVATION.	T.G.J.	7/29/24
3.	OMITTED DOCK K AND ADDED TO ALL FAIRWAY SPACING.	T.G.J.	10/16/24

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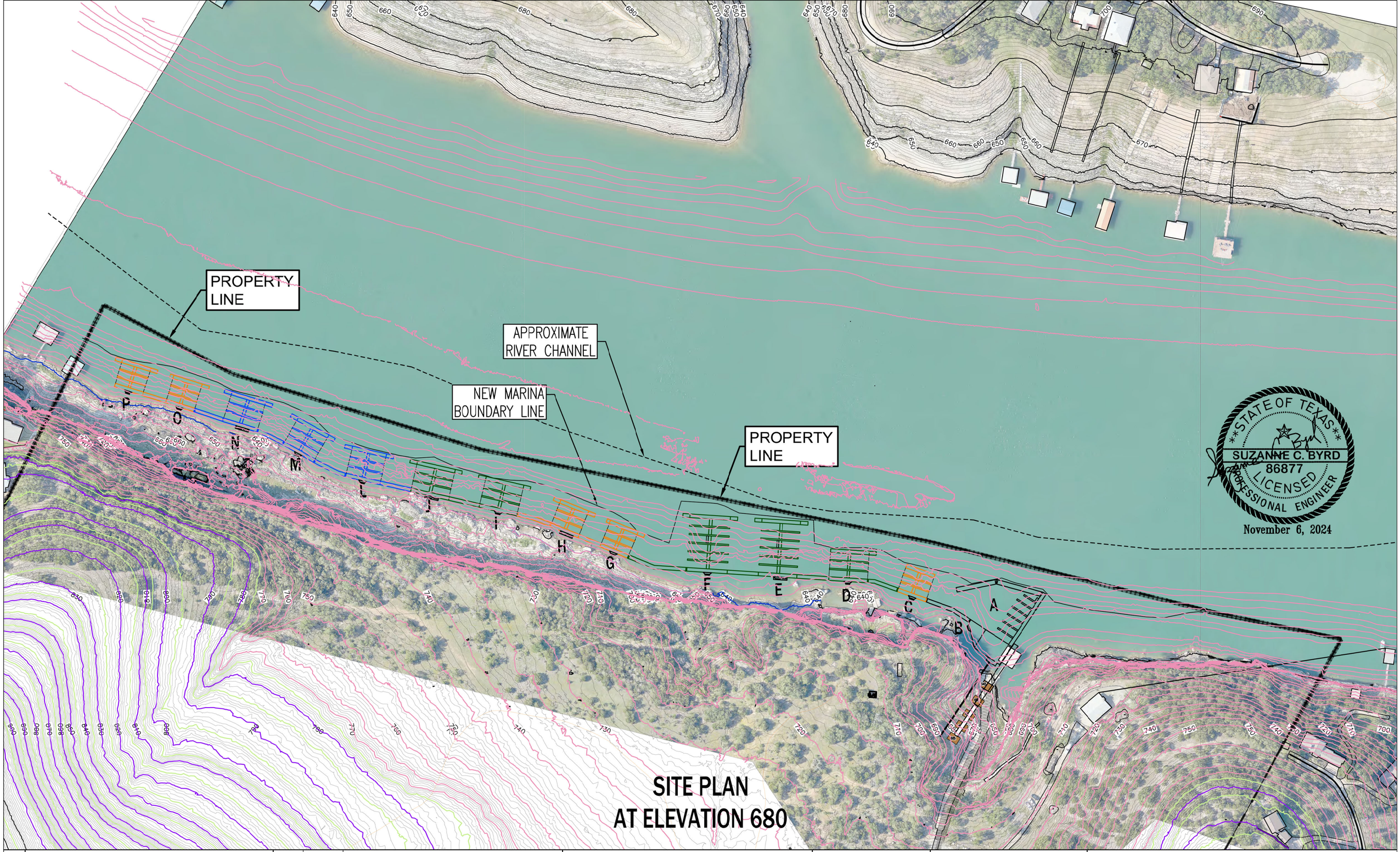
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 0.000431	DATE: 2/5/24	SHEET 2A

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX



SITE PLAN
AT ELEVATION 680

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED NEW SHEET 2B.	T.G.J.	7/29/24
2.	OMITTED DOCK K AND ADDED TO ALL FAIRWAY SPACING.	T.G.J.	10/16/24

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CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 0.000431	DATE: 2/5/24	SHEET 2B

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX

PROPERTY LINE

APPROXIMATE RIVER CHANNEL

NEW MARINA BOUNDARY LINE

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED PROFESSIONAL ENGINEER
November 6, 2024

P O N M L J I H G F

750 740 660 650 640 630 820 810 800 790 780 770 760 730 720 710

SITE PLAN AT ELEVATION 640'

NO.	REVISION DESCRIPTION	BY	DATE

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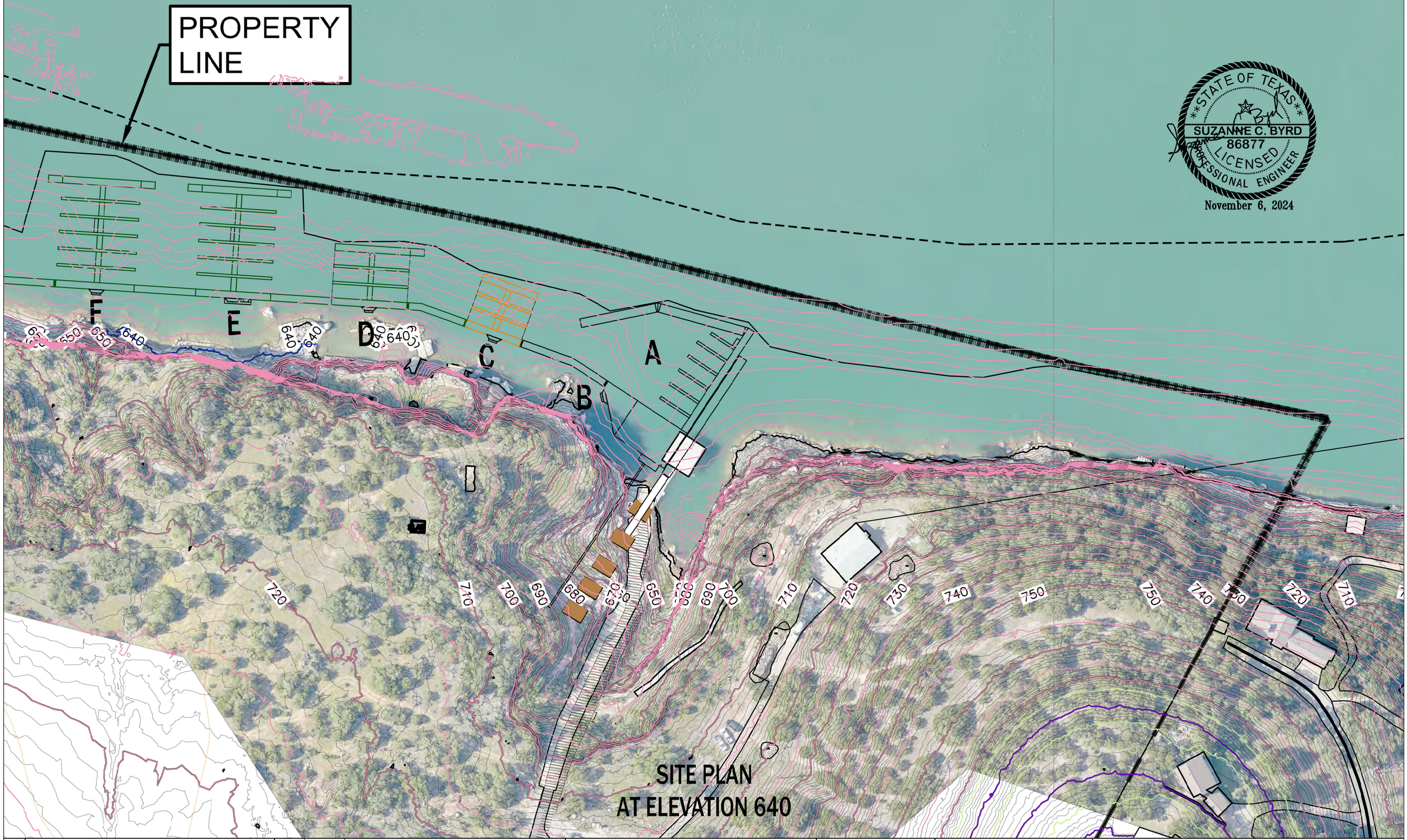
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=100'-0"	DATE: 10/31/24	SHEET 2C

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX



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November 6, 2024

SITE PLAN AT ELEVATION 640

NO.	REVISION DESCRIPTION	BY	DATE

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CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=100'-0"	DATE: 10/31/24	SHEET 2D

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

APPROXIMATE RIVER CHANNEL

NEW MARINA BOUNDARY LINE

P O N M L K J I H G F

750 740 720 660 660 660 650 640 630 820 810 800 790 780 770 760 750 740 730 720 710 700 650 650 640

SITE PLAN AT ELEVATION 660

STATE OF TEXAS
SUZANNE C. BYRD
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November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE

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CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=100'-0"	DATE: 10/31/24	SHEET 2E

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

F

E

D

C

B

A

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

SITE PLAN AT ELEVATION 660

NO.	REVISION DESCRIPTION	BY	DATE

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CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=100'-0"	DATE: 10/31/24	SHEET 2F

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

APPROXIMATE RIVER CHANNEL

NEW MARINA BOUNDARY LINE

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED PROFESSIONAL ENGINEER
November 6, 2024

P O N M L J I H G F

750 740 720 660 660 660 650 640 630 820 810 800 790 780 770 760 750 740 730 720 710 700 650 650 650 640

SITE PLAN AT ELEVATION 680

NO.	REVISION DESCRIPTION	BY	DATE

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CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=100'-0"	DATE: 10/31/24	SHEET 2G

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER

November 6, 2024

F E D C B A

SITE PLAN AT ELEVATION 680

NO.	REVISION DESCRIPTION	BY	DATE

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DRAWN BY: TGJ	FILE NAME: (Copy) 8780A-1	
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=100'-0"	DATE: 10/31/24	SHEET 2H

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

PROPERTY LINE

10% LINE

40'
70'
86'
16'
73'-5"
66'
54'-4"
88'
100'
8'
40'
6'
40'
8'
3'
16'
76'
30'
6'
30'
14'
3'
8'
10'
62'-9"
47'-8"
10'
14'
32'
10'
40'
16'
3'
16'
3'
40'
8'
45'
48'
8'
24'
68'

D

C

A

B

WINCH FRAME

SHORE LINE ELEV 640

DOCK WITHOUT ELECTRICAL SUBSTATION

FLOATING UTILITY CHASE

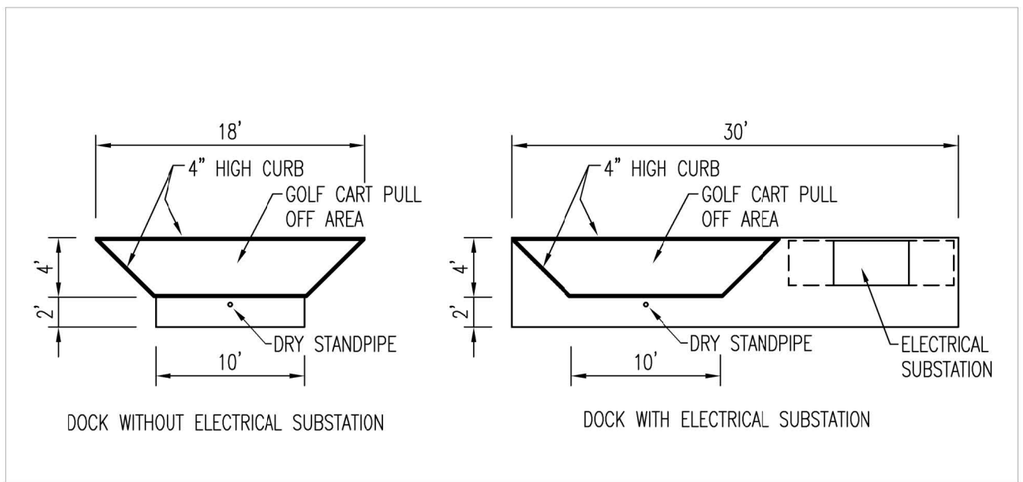
PAD ELEV 645

ADJUSTABLE SLIDING WALKWAY

160' SLIDING WALKWAY

139'

8'x80' GANGWAY



DOCK WITHOUT ELECTRICAL SUBSTATION

DOCK WITH ELECTRICAL SUBSTATION

SITE PLAN AT ELEVATION 640

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24
2.	ADDED TO ALL FAIRWAY SPACING & MISC. CHANGES.	T.G.J.	10/16/24

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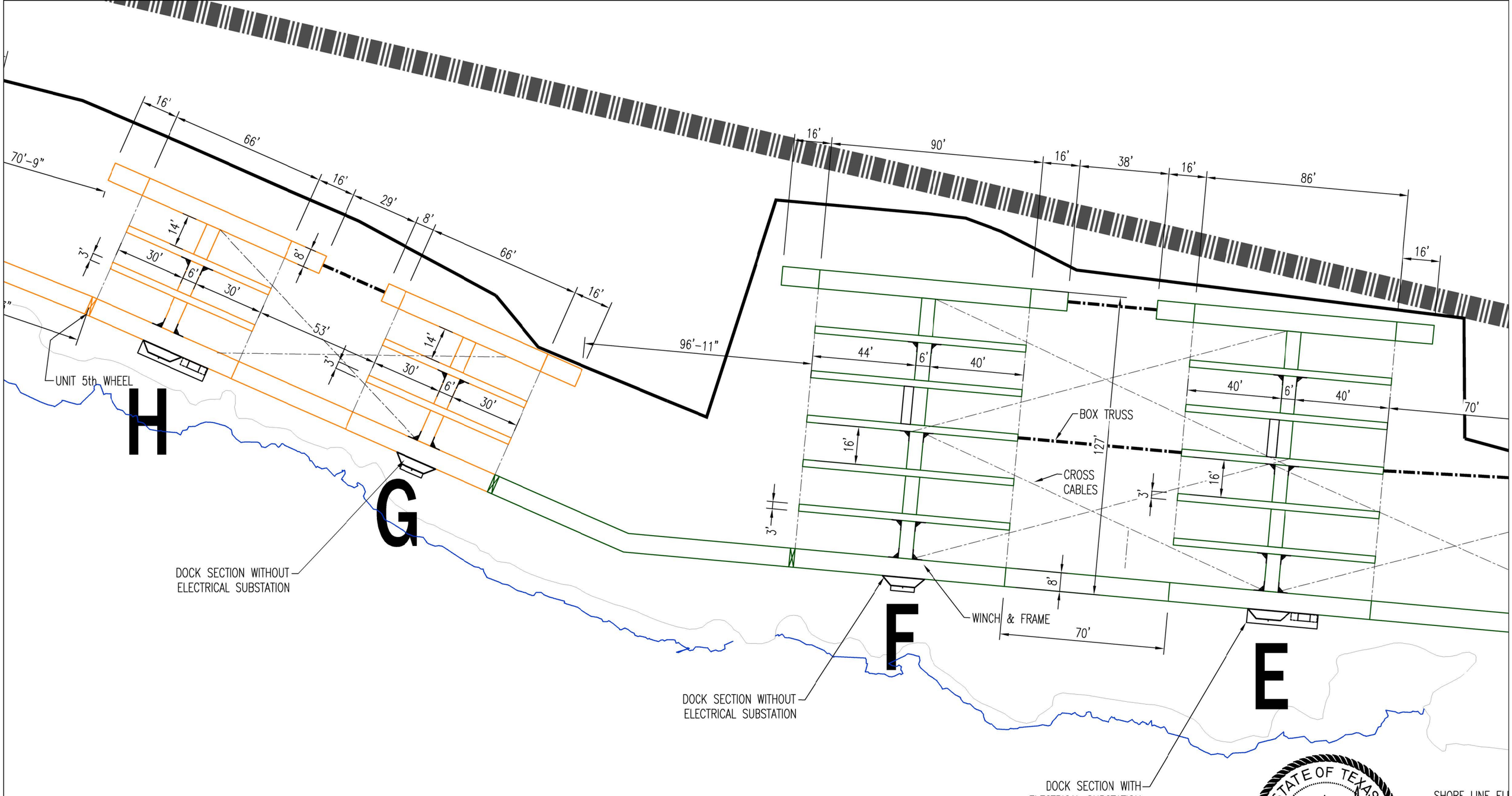
DRAWN BY: TGJ	FILE NAME: (Copy) 8780A-1	
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=40'-0"	DATE: 12/6/24	SHEET 3

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX



SITE PLAN
AT ELEVATION 640

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER

November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24
2.	ADDED TO ALL FAIRWAY SPACING & MISC. CHANGES.	T.G.J.	10/16/24

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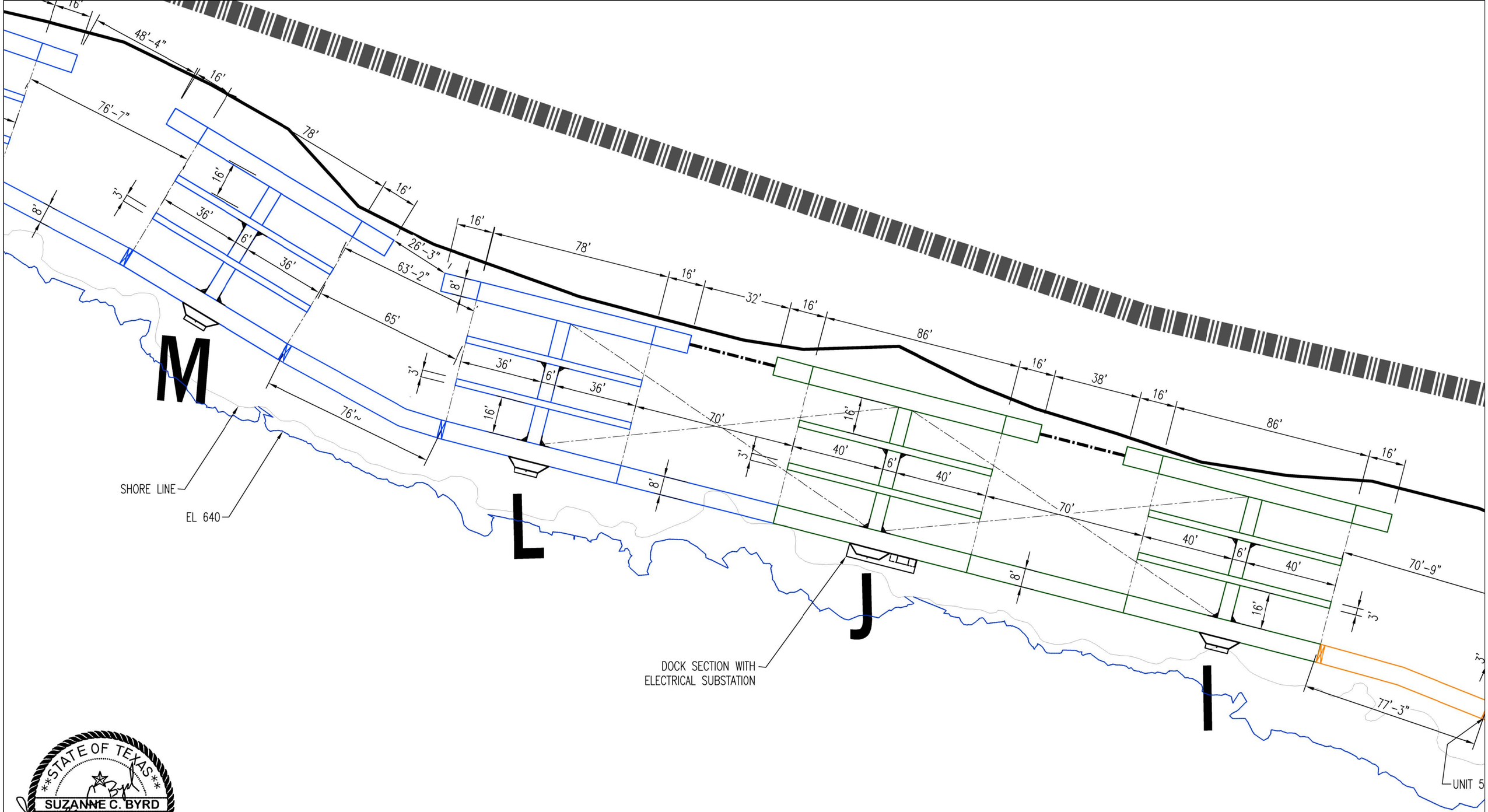
DRAWN BY: TGJ	FILE NAME: (Copy) 8780A-1	
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=40'-0"	DATE: 12/6/24	SHEET 4

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



STATE OF TEXAS
SUZANNE C. BYRD
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PROFESSIONAL ENGINEER
November 6, 2024

SITE PLAN
AT ELEVATION 640

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLAFORMS ALONG MAINWALK.	TGJ	6/3/24
2.	OMITTED DOCK K AND ADDED TO ALL FAIRWAY SPACING.	T.G.J.	10/16/24

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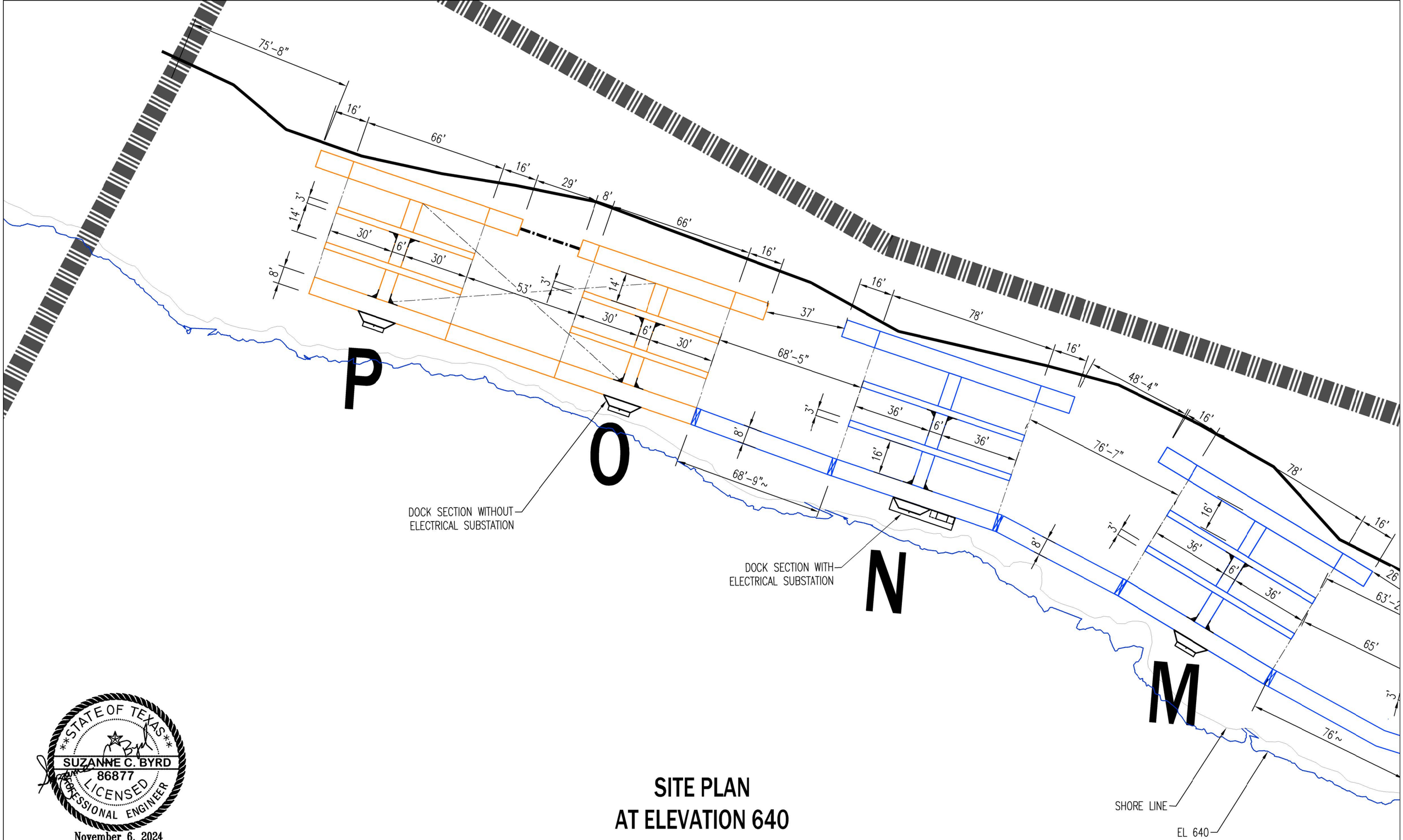
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=40'-0"	DATE: 12/6/24	SHEET 5

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



SITE PLAN
AT ELEVATION 640

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER

November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24
2.	ADDED TO ALL FAIRWAY SPACING AND MISC. CHANGES,	T.G.J.	10/16/24

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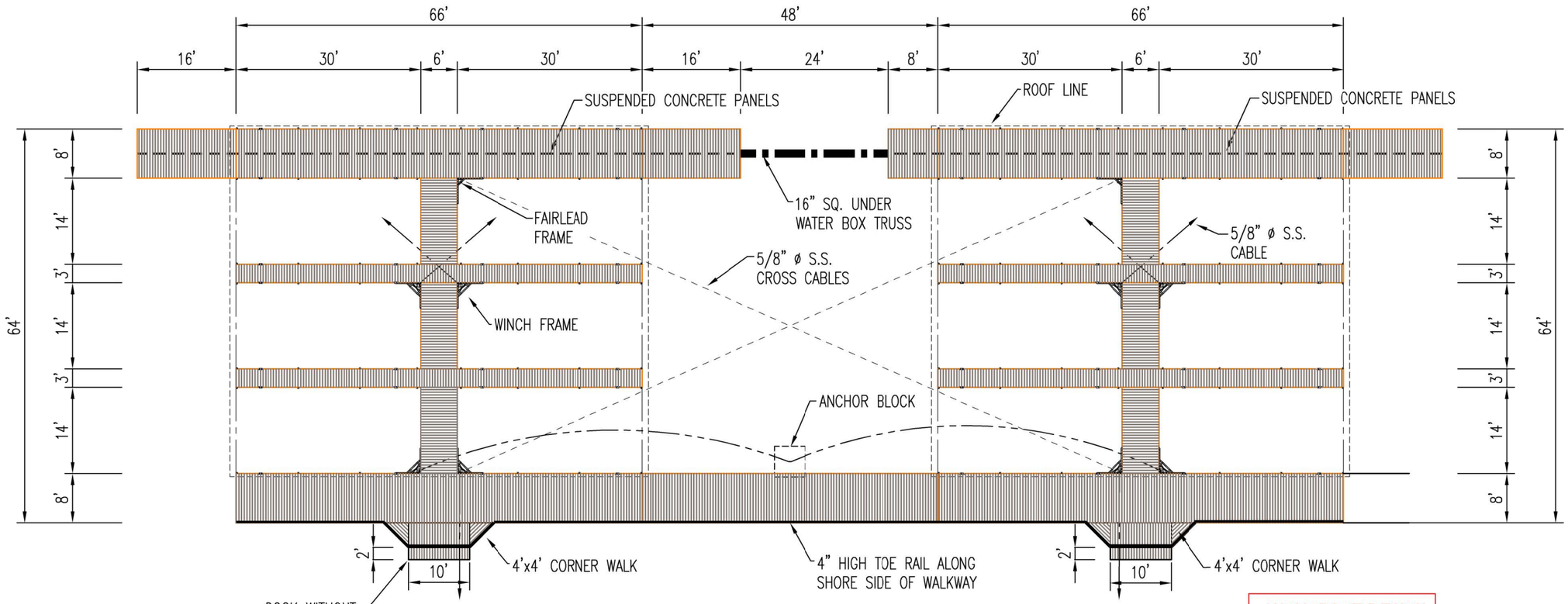
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=40'-0"	DATE: 12/6/24	SHEET 6

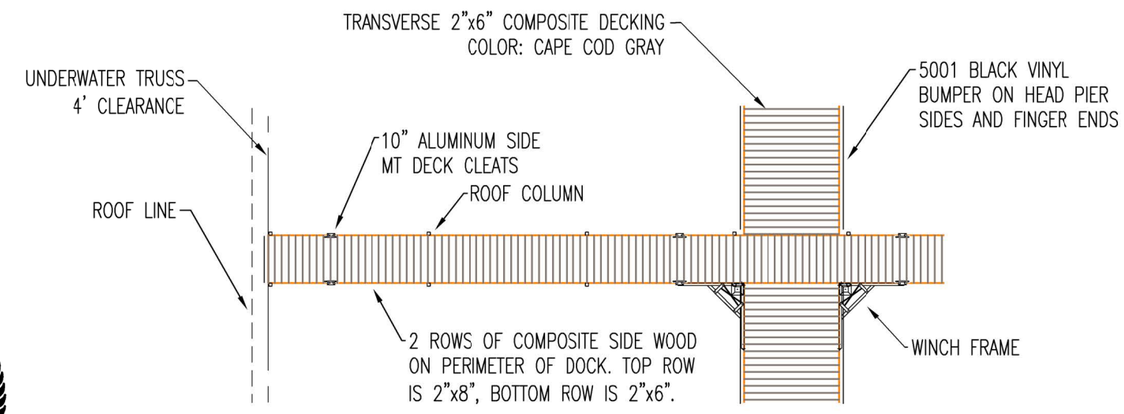
TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



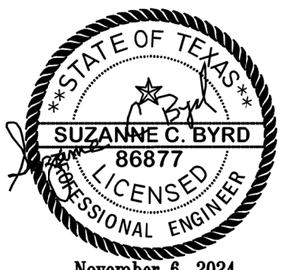
DOCK P | **DOCK O**

PLAN VIEW
(Typical of 30' Slips)

ANCHORAGE DESIGN IS PRELIMINARY



ENLARGEMENT



November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	CHANGED DECKING & SIDE WOOD AND MISC.	T.G.J.	3/26/24
2.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24
3.	CHANGED DOCK DESIGNATIONS & MISC CHANGES.	T.G.J.	10/22/24

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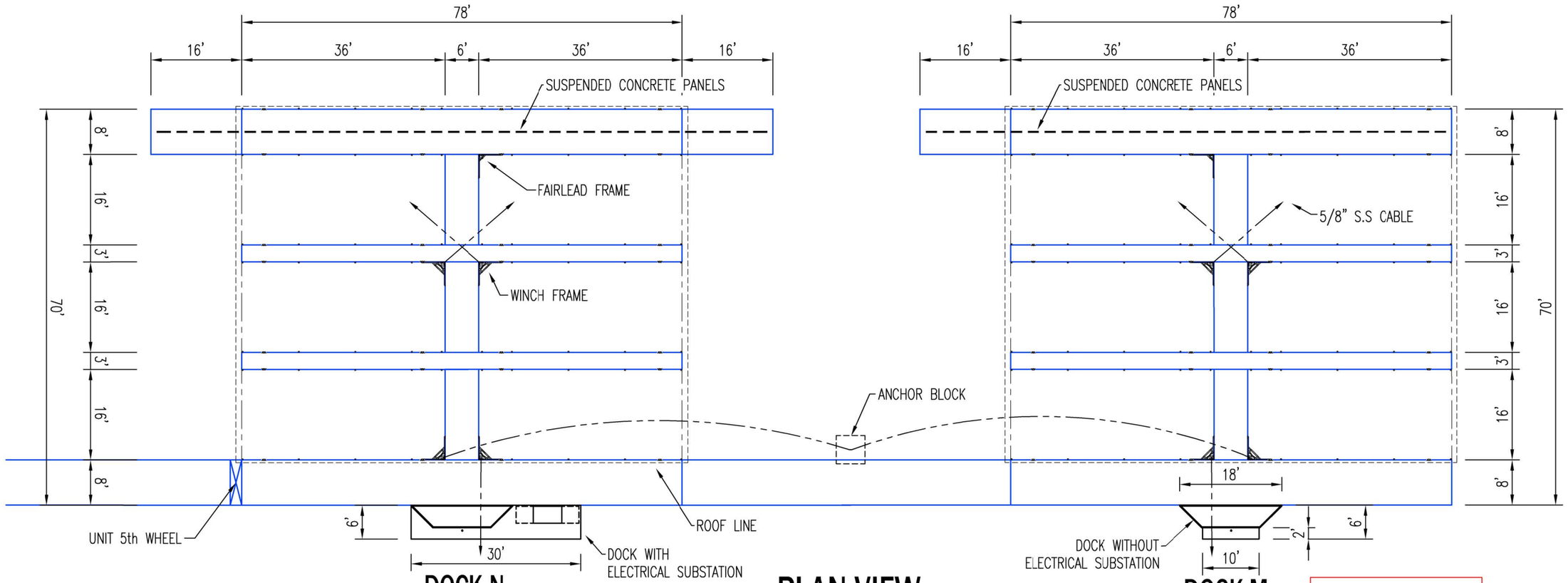
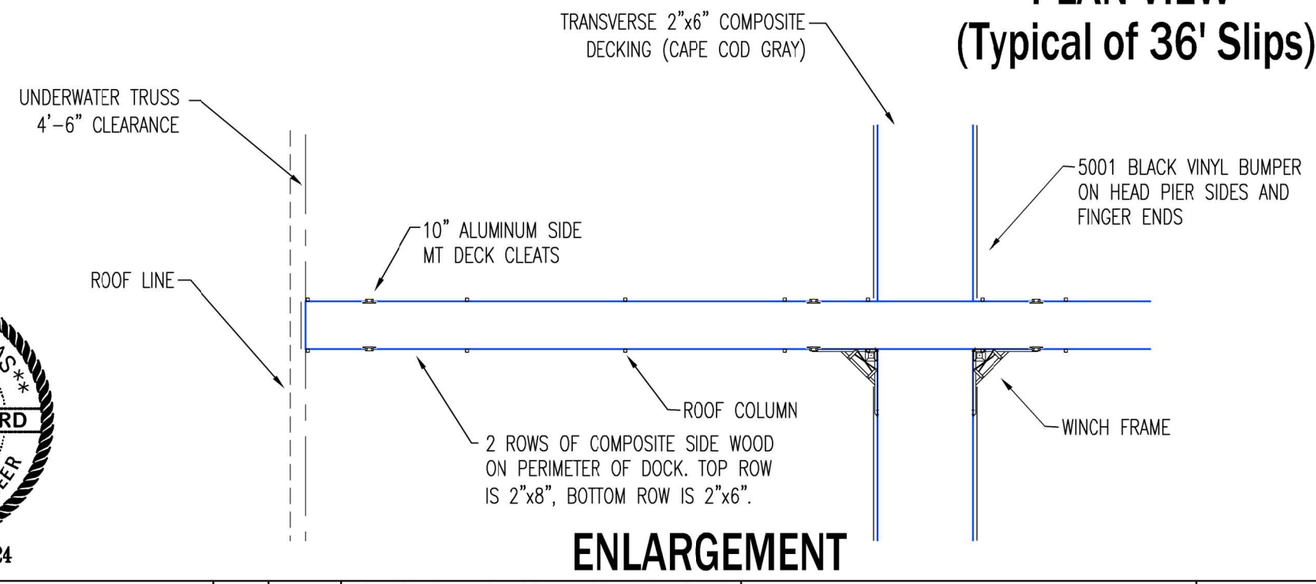
DRAWN BY: TGJ	FILE NAME: (Copy) 8780A-1	
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=20'-0"	DATE: 12/7/24	SHEET 7

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



PLAN VIEW
(Typical of 36' Slips)

ANCHORAGE DESIGN IS PRELIMINARY



ENLARGEMENT

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER

November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24
2.	MISC. CHANGES.	T.G.J.	10/22/24

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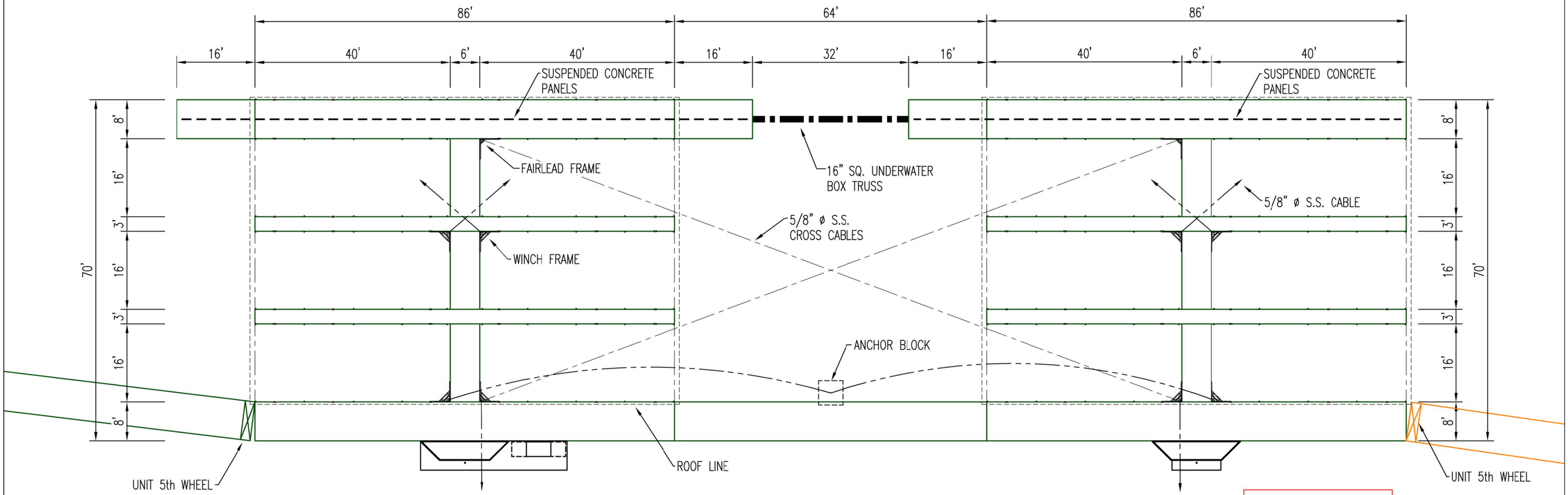
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=20'-0"	DATE: 12/7/24	SHEET 8

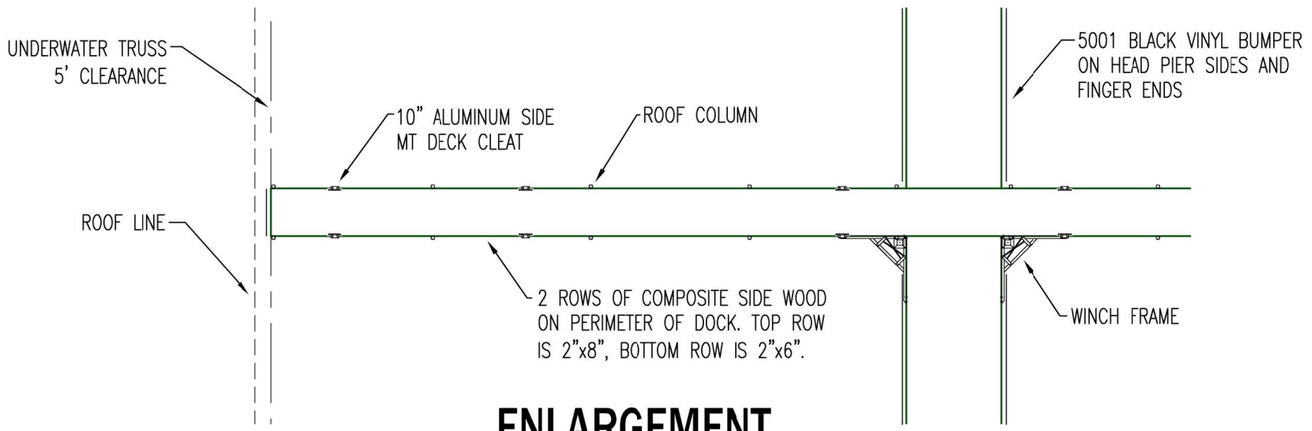
TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



DOCK J **DOCK I**

PLAN VIEW
(Typical of 40' Slips)

ANCHORAGE DESIGN IS PRELIMINARY



ENLARGEMENT

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED
PROFESSIONAL ENGINEER

November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS ALONG MAINWALK.	TGJ	6/3/24

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1501 E. ELECTRIC AVE.
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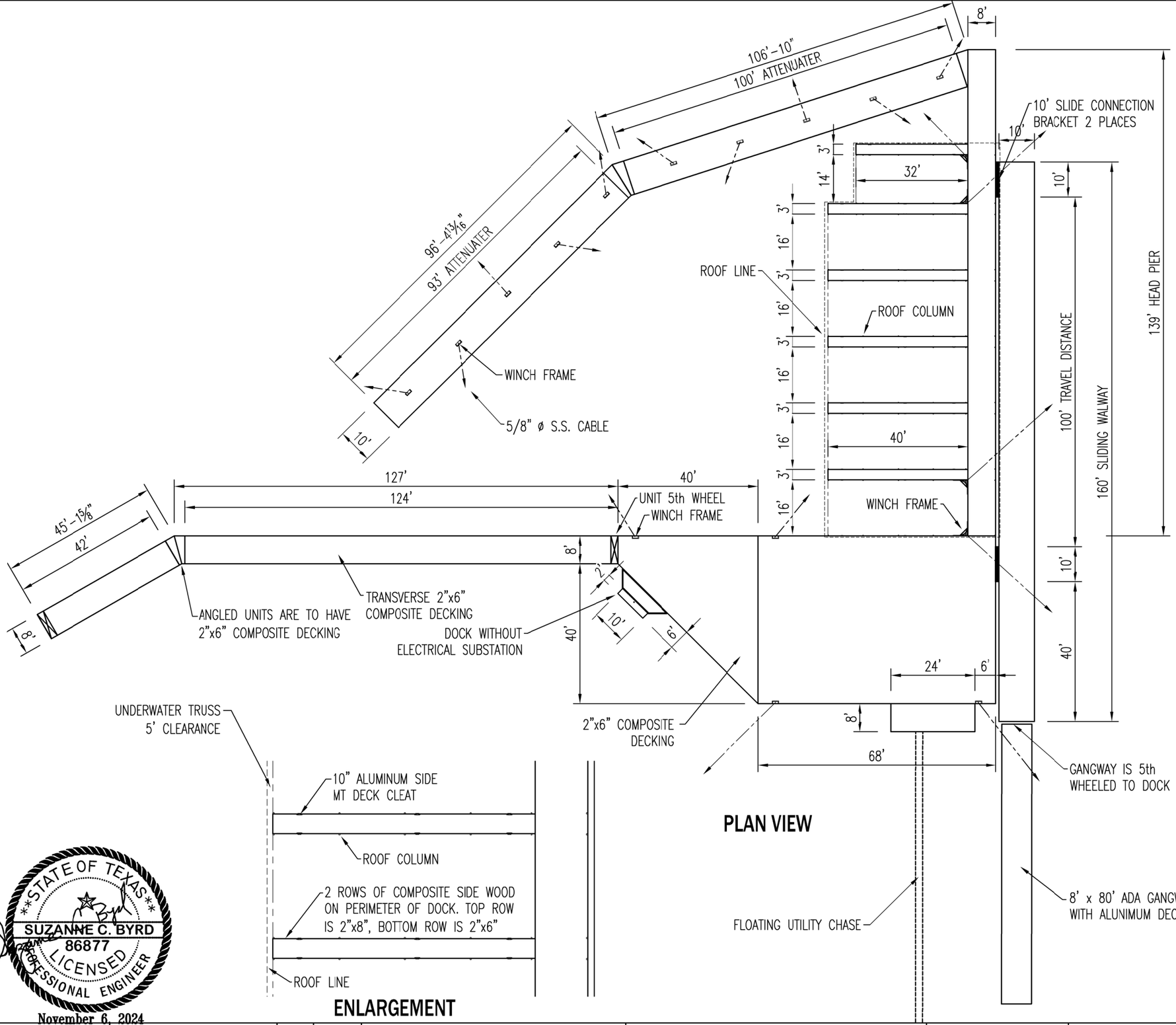
Fax: (918) 423–3215

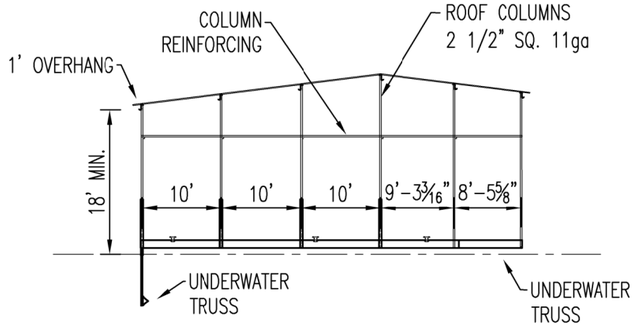
DRAWN BY: TGJ	FILE NAME: (Copy) 8780A-1	
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=20'-0"	DATE: 12/7/24	SHEET 9

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



PLAN VIEW

ENLARGEMENT



40' SLIP END ELEVATION (DOCK A)

STATE OF TEXAS
SUZANNE C. BYRD
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LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	ADDED ELECTRICAL PLATFORMS AND UTILITY CHASE.	TGJ	6/3/24
2.	ADDED ROOF TO SLIPS.	T.G.J.	7/29/24

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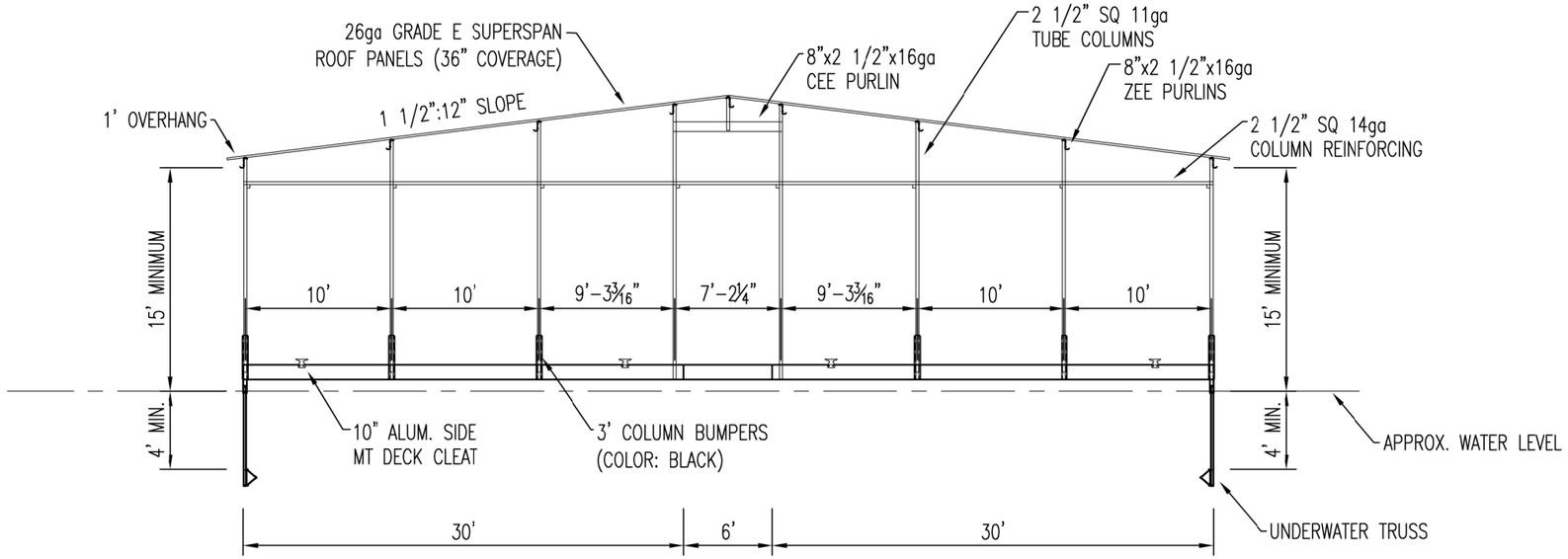
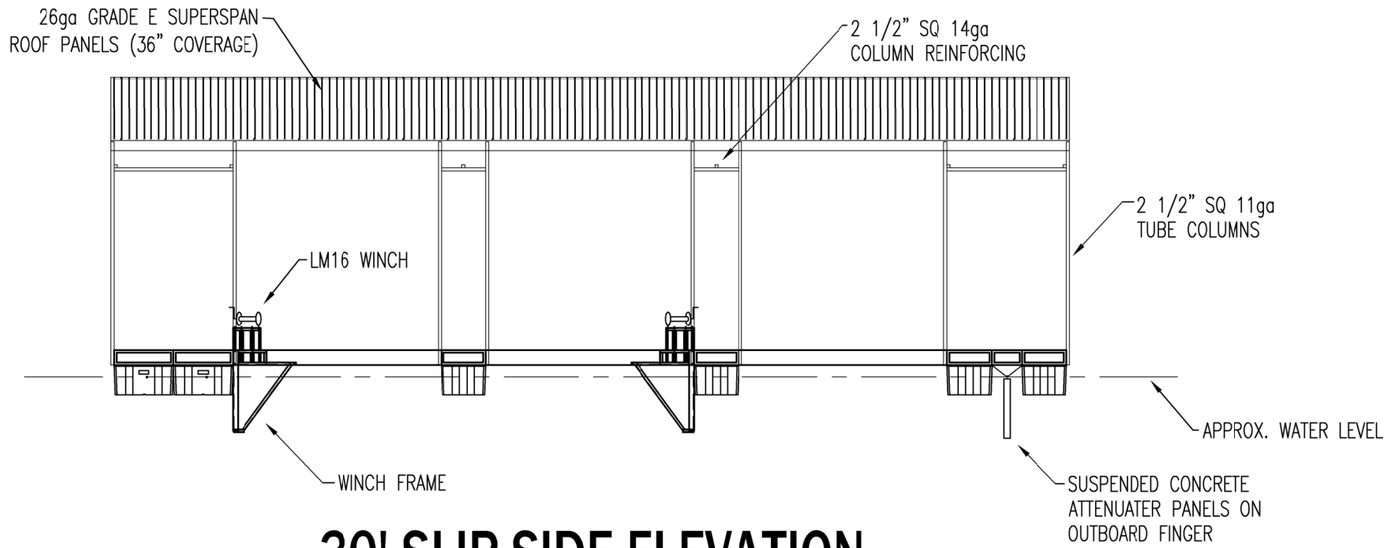
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 1"=30'-0"	DATE: 12/7/24	SHEET 10

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX



30' SLIP END ELEVATION



30' SLIP SIDE ELEVATION

November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE

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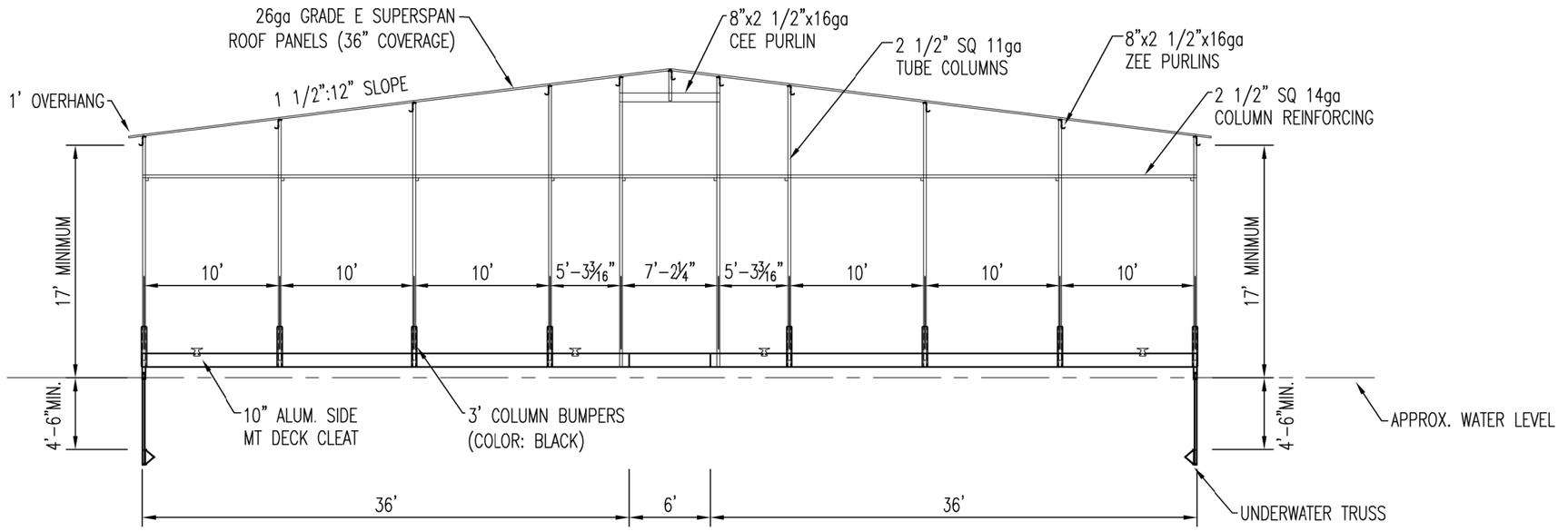
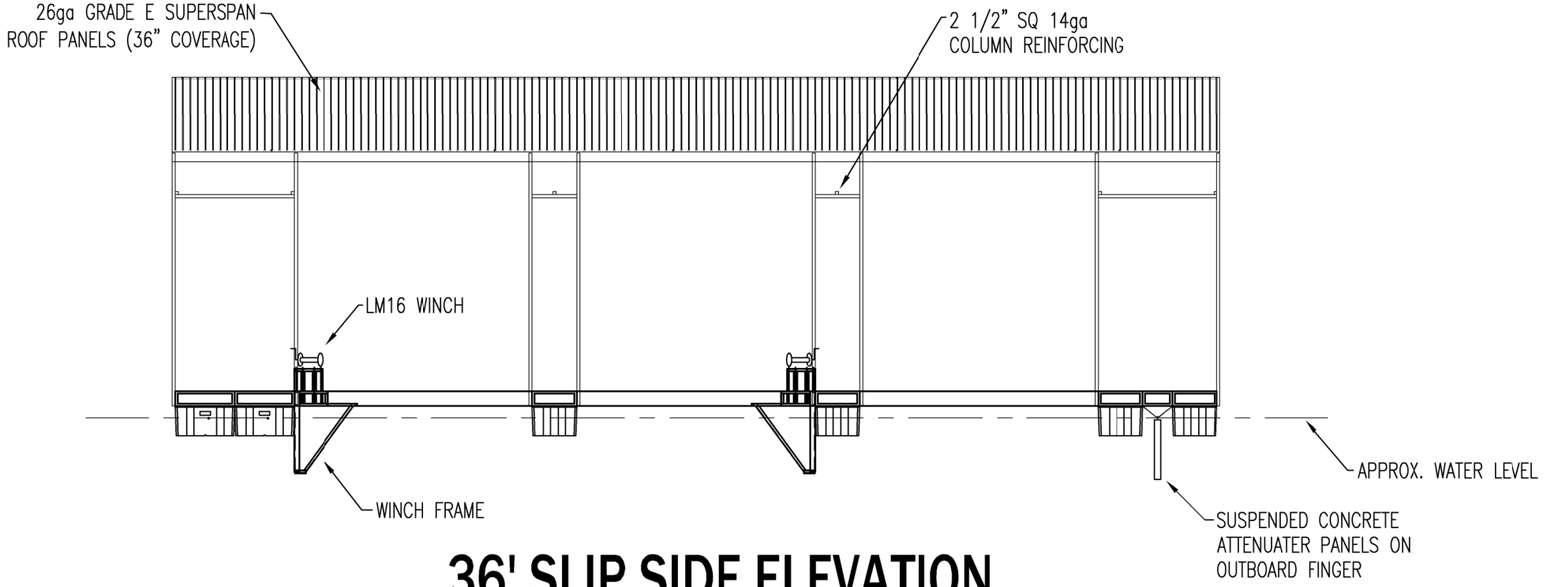
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 3/32" = 1'-0"	DATE: 12/7/24	SHEET 11

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX



36' SLIP END ELEVATION



36' SLIP SIDE ELEVATION

STATE OF TEXAS
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NO.	REVISION DESCRIPTION	BY	DATE

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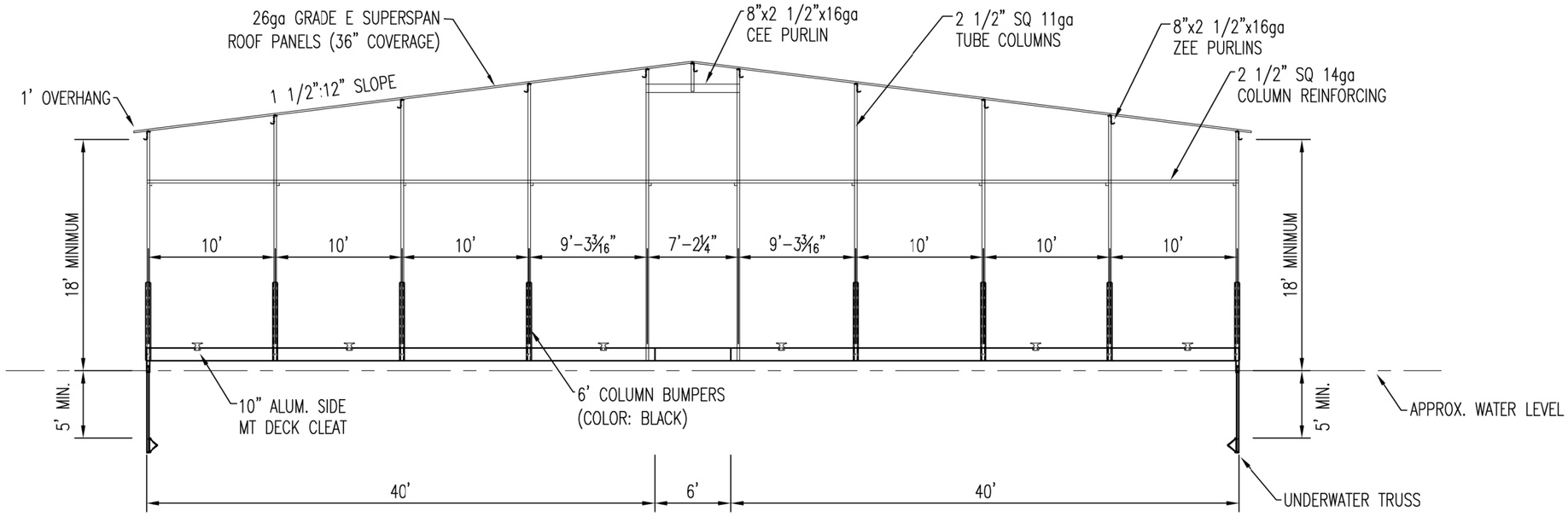
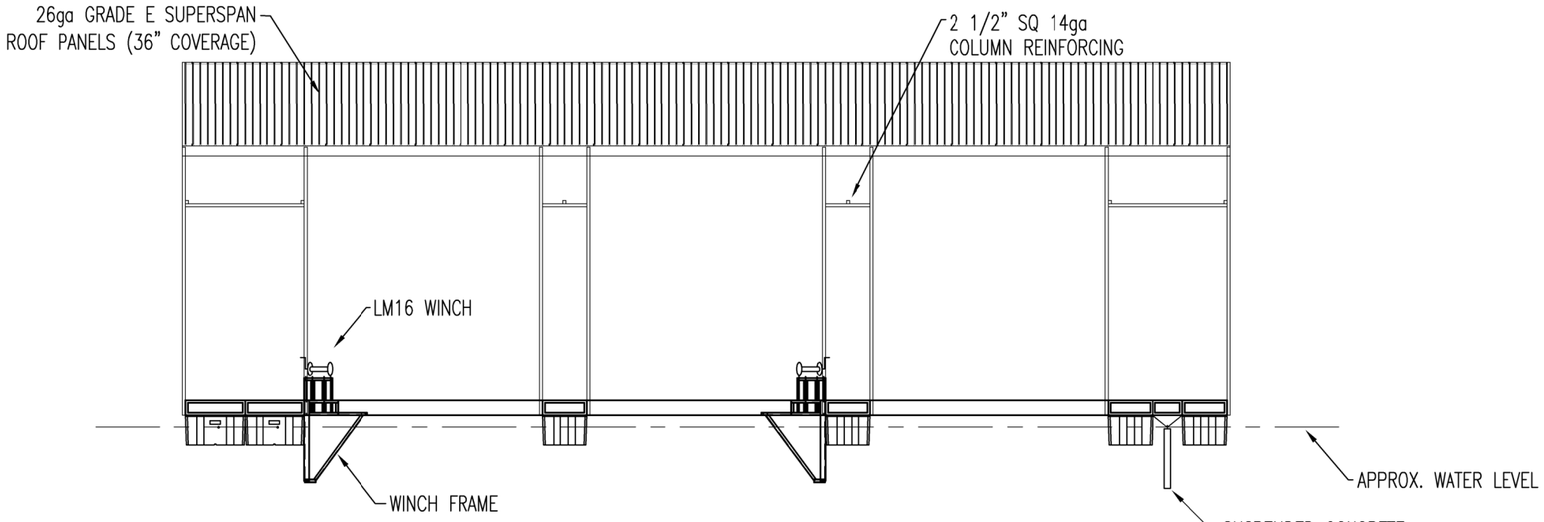
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 3/32" = 1'-0"	DATE: 12/7/24	SHEET 12

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



40' SLIP END ELEVATION



40' SLIP SIDE ELEVATION

STATE OF TEXAS
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NO.	REVISION DESCRIPTION	BY	DATE

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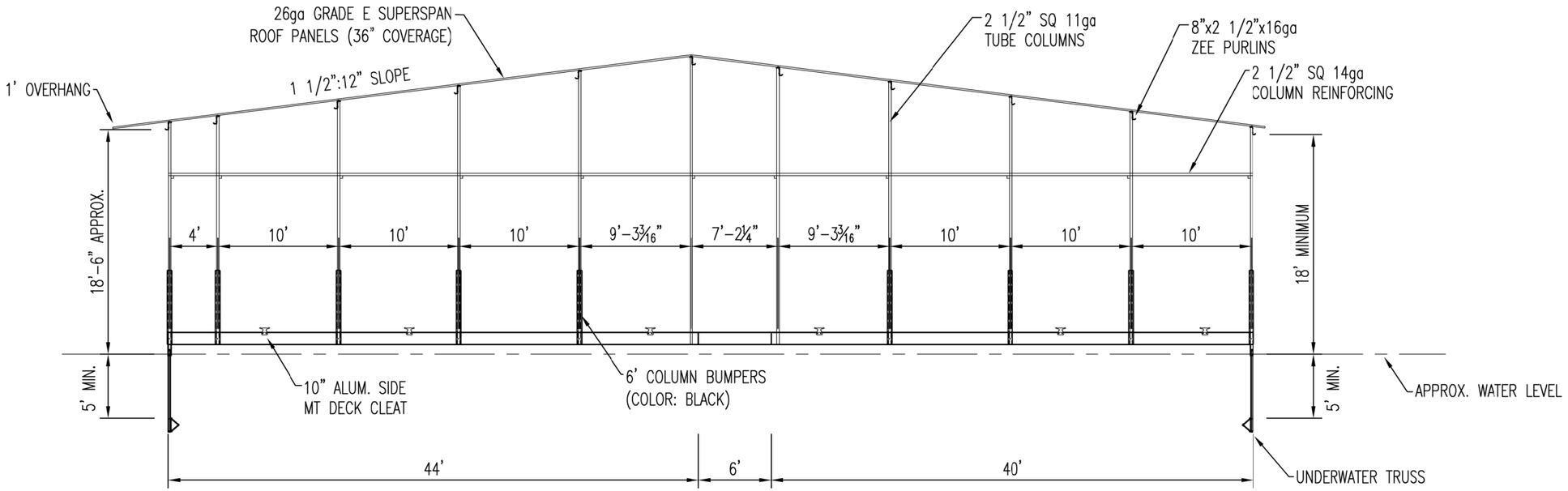
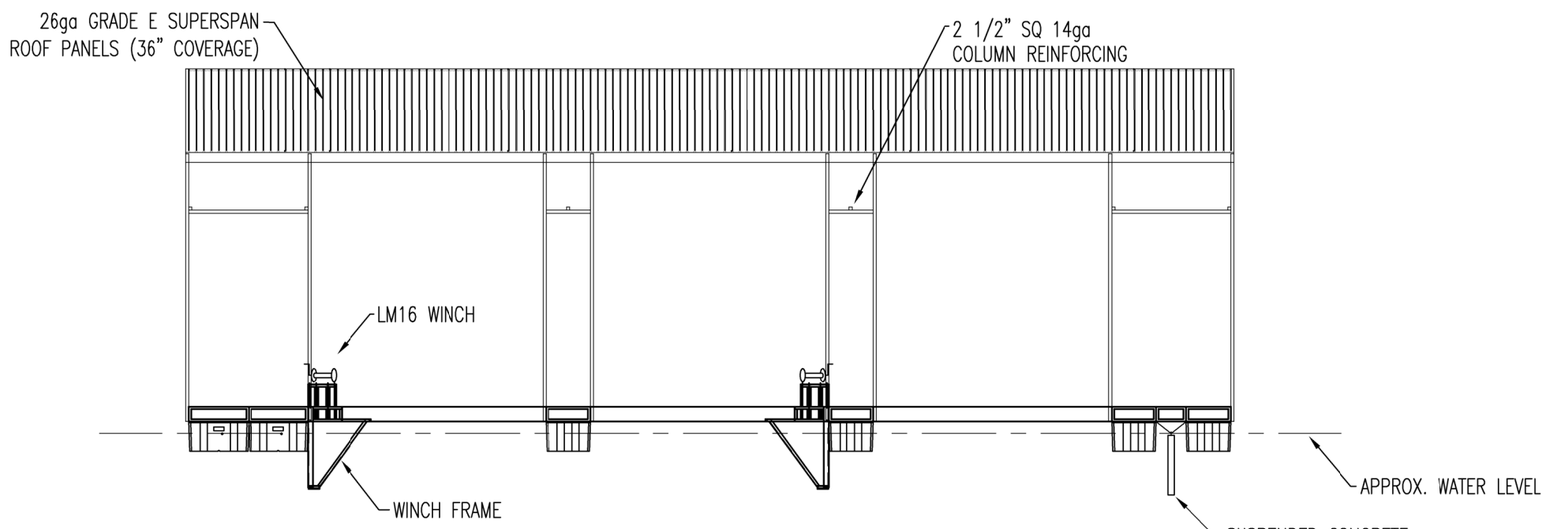
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 3/32" = 1'-0"	DATE: 12/7/24	SHEET 13

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX



DOCK F END ELEVATION



40' SLIP SIDE ELEVATION

STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
November 6, 2024

NO.	REVISION DESCRIPTION	BY	DATE

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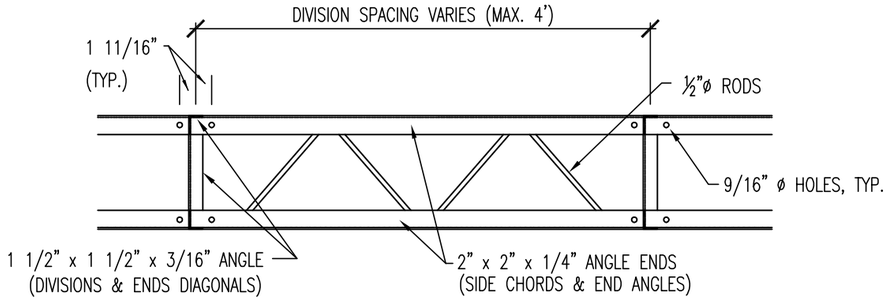
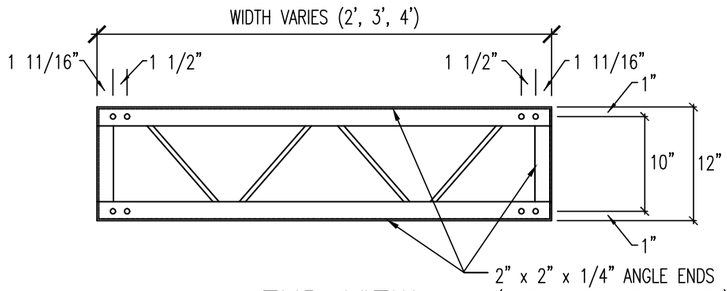
CHECKED BY:	JOB #	PLAN # 8780A-1
SCALE: 3/32" = 1'-0"	DATE: 6/6/24	SHEET 13A

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX

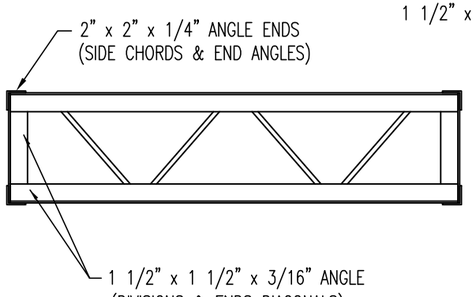


PARTIAL SIDE VIEW – 4' DIVISION

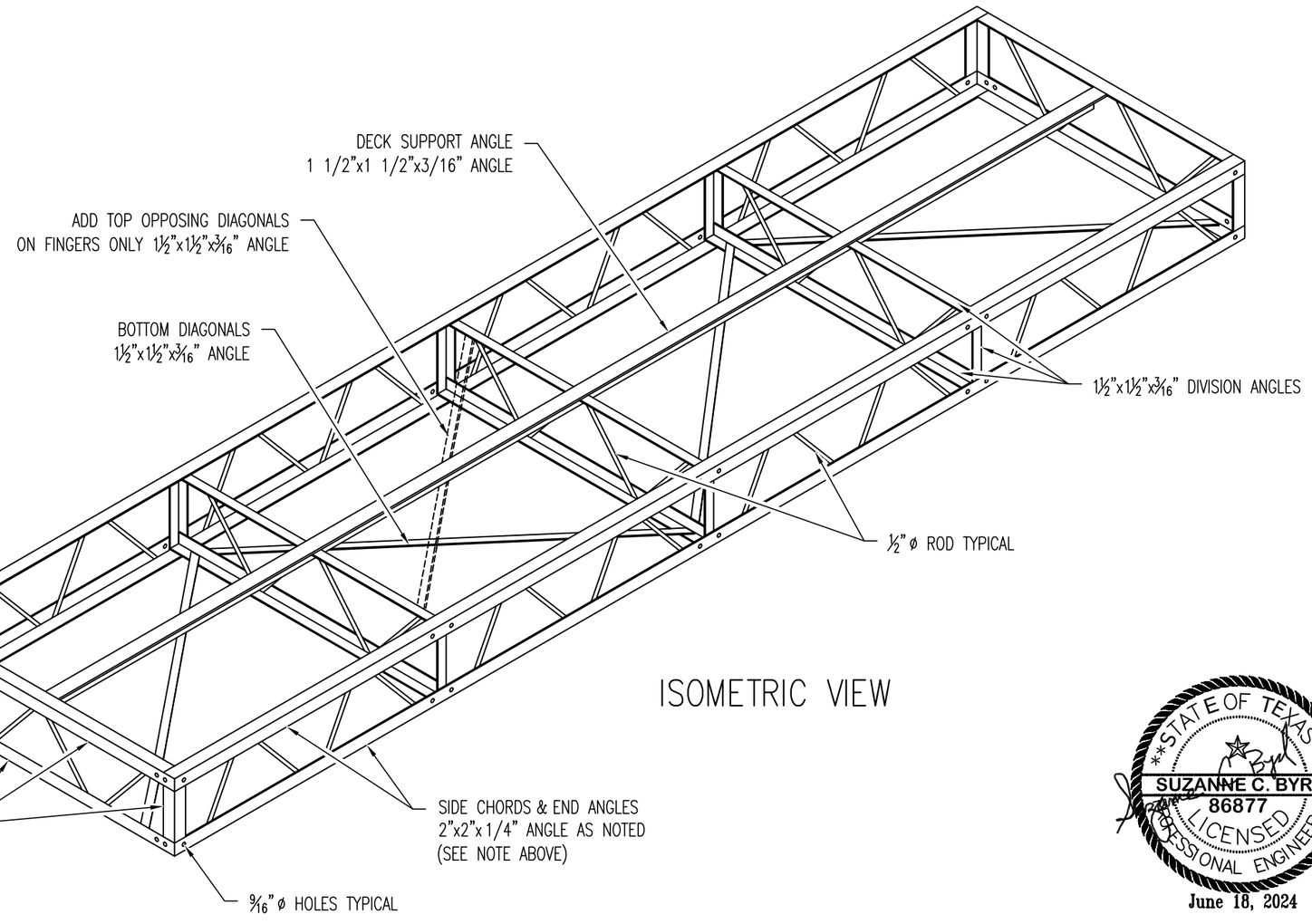
NOTE:
ATTENUATOR SECTIONS OF DOCKS HAVE MAIN STRUCTURAL SIDE CHORDS AND ENDS FROM 2"x2"x$\frac{1}{4}$" ANGLE AS SHOWN. ALL REMAINING STRUCTURES HAVE 2"x2"x$\frac{3}{16}$" ANGLE SIDE CHORDS AND ENDS.



END VIEW



SECTION VIEW



ISOMETRIC VIEW

STATE OF TEXAS
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June 18, 2024

STANDARD FRAME DETAIL

NO.	REVISION DESCRIPTION	BY	DATE

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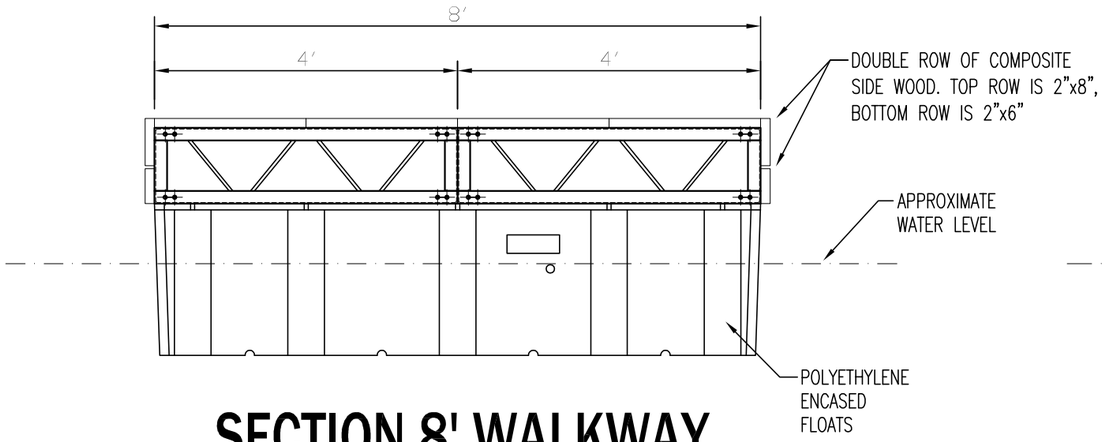
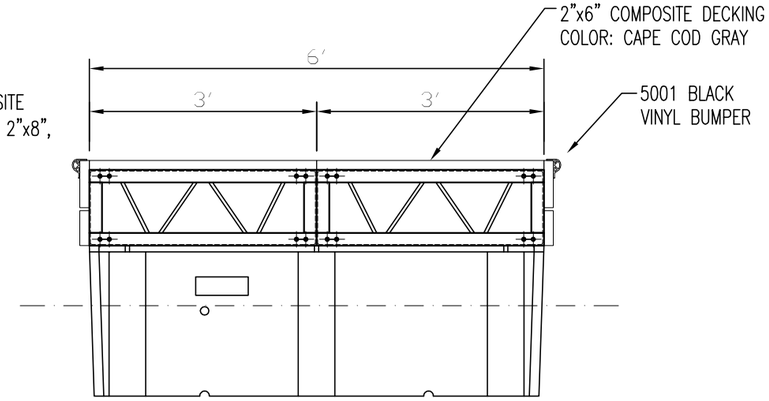
DRAWN BY: TGJ	FILE NAME: 8780A-2	
CHECKED BY:	JOB #	PLAN # 8780A
SCALE: 3/8" = 1'	DATE: 2/8/24	SHEET 14

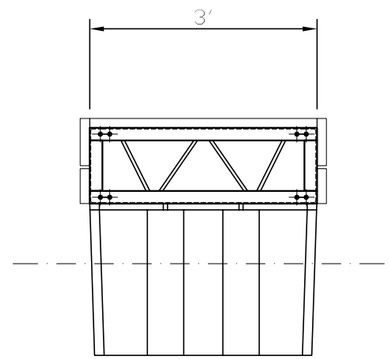
TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



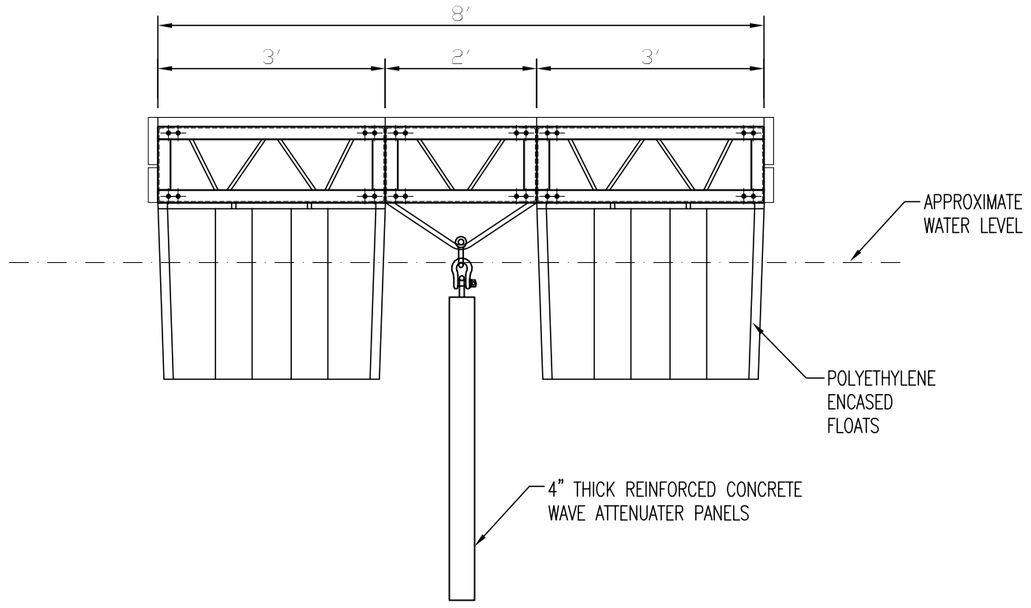
SECTION 8' WALKWAY



SECTION 6' HEADPIER



SECTION 3' FINGER



SECTION 8' ATTENUATER

STATE OF TEXAS
SUZANNE C. BYRD
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June 18, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	CHANGED DECKING AND SIDE WOOD.	TGJ	6/3/24

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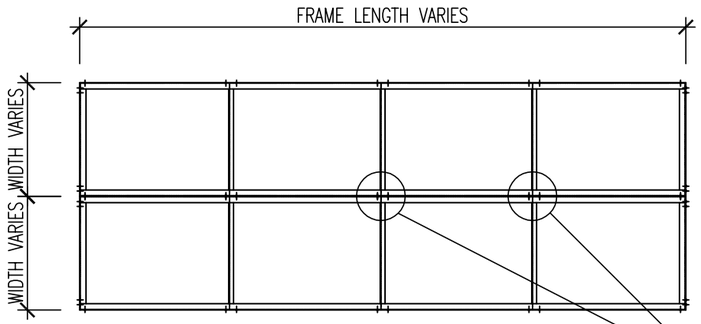
CHECKED BY:	JOB #	PLAN # 8780A
SCALE: 1/2" = 1'	DATE: 2/8/24	SHEET 15

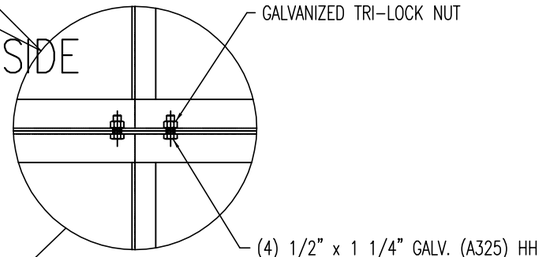
TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX

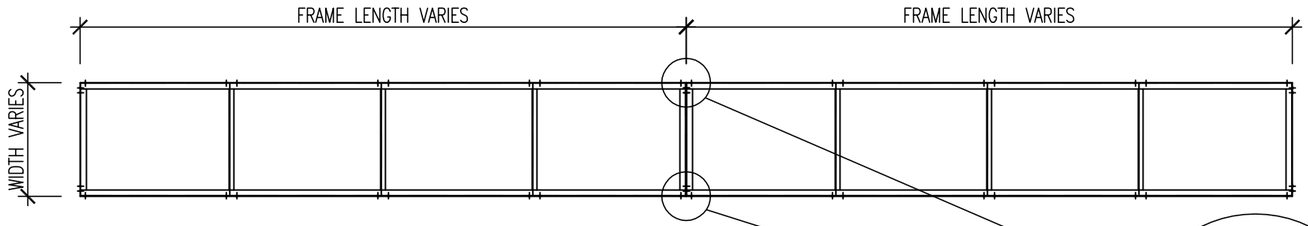


DOUBLE WIDE FRAME SIDE TO SIDE

(2) FRAMES SHOWN BOLTED SIDE TO SIDE

NOTE: ALL CONNECTIONS MAY NOT BE APPLICABLE TO THIS SPECIFIC PROJECT.



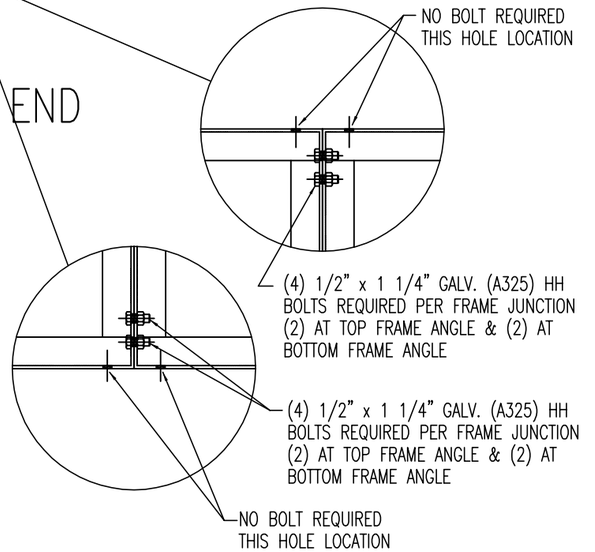


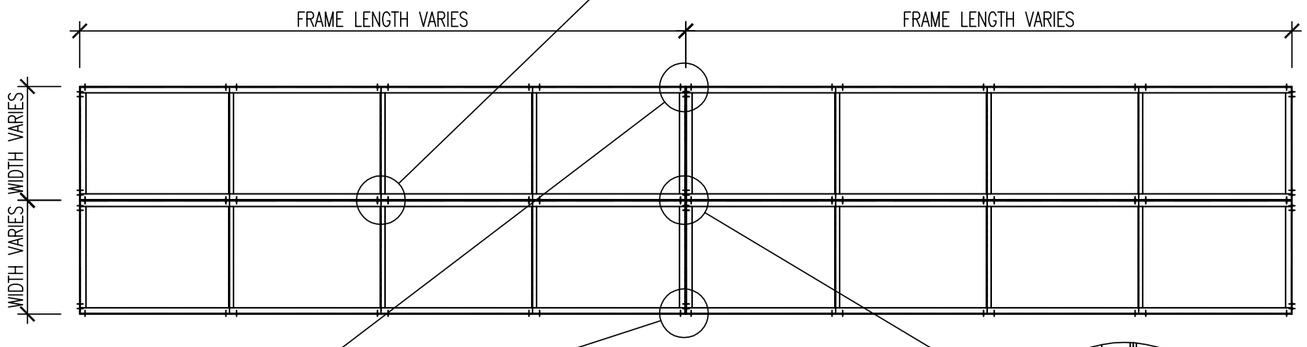
SINGLE WIDE FRAME END TO END

(2) FRAMES SHOWN BOLTED END TO END

DESIGN CRITERIA:
FRAMES ARE DESIGNED WITH PRE-PUNCHED HOLES FOR CONNECTING FRAMES END TO END AND SIDE TO SIDE FOR VARIOUS DOCK CONFIGURATIONS.
THE MIN. REQUIRED BOLTS FOR THE SYSTEM DESIGN ARE INDICATED. ADDITIONAL HOLES NOT USED ARE FOR DESIGN UNIFORMITY AND TO ALLOW FOR FUTURE RECONFIGURATION AND OR ACCESSORY CONNECTIONS.

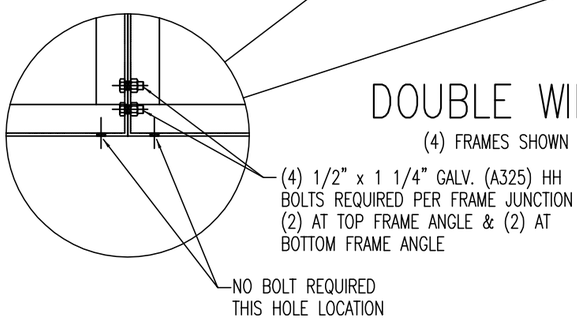
ALL BOLTS ARE (A325) 1/2"ø x 1 1/4" GALVANIZED HEX HEAD WITH GALVANIZED TRI-LOCK NUT

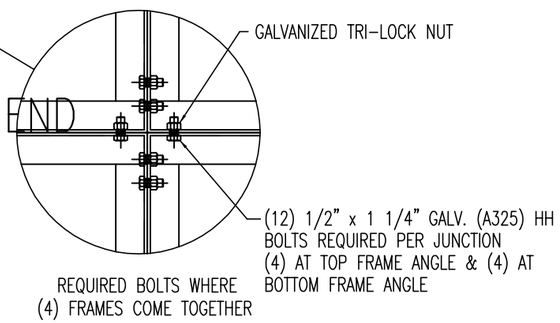


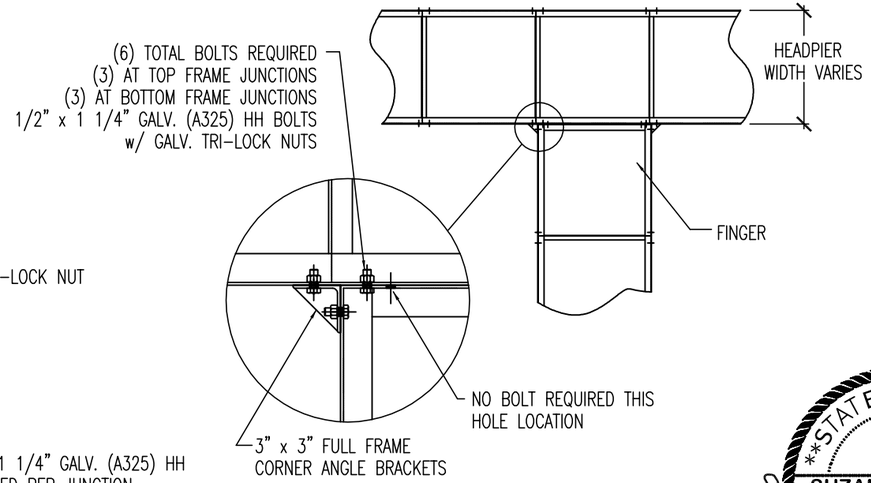


DOUBLE WIDE FRAME END TO END

(4) FRAMES SHOWN BOLTED SIDE TO SIDE AND END TO END







FINGER TO HEADPIER

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SUZANNE C. BYRD
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June 18, 2024

FRAME CONNECTIONS

NO.	REVISION DESCRIPTION	BY	DATE

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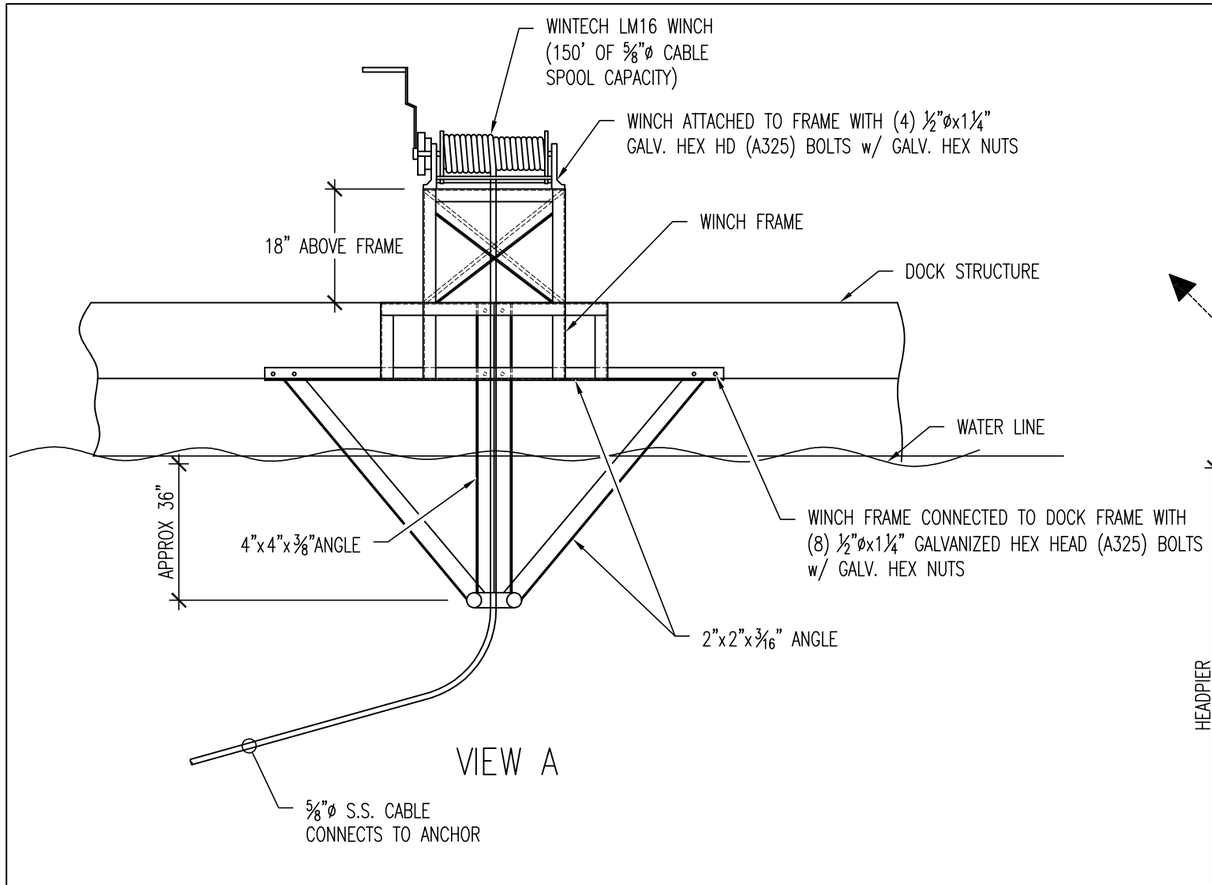
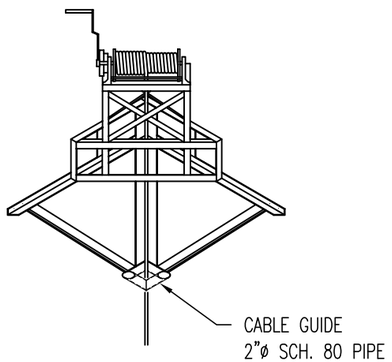
CHECKED BY:	JOB #	PLAN # 8780A
SCALE: 1/4" = 1'	DATE: 2/8/24	SHEET 16

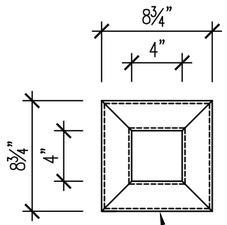
TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



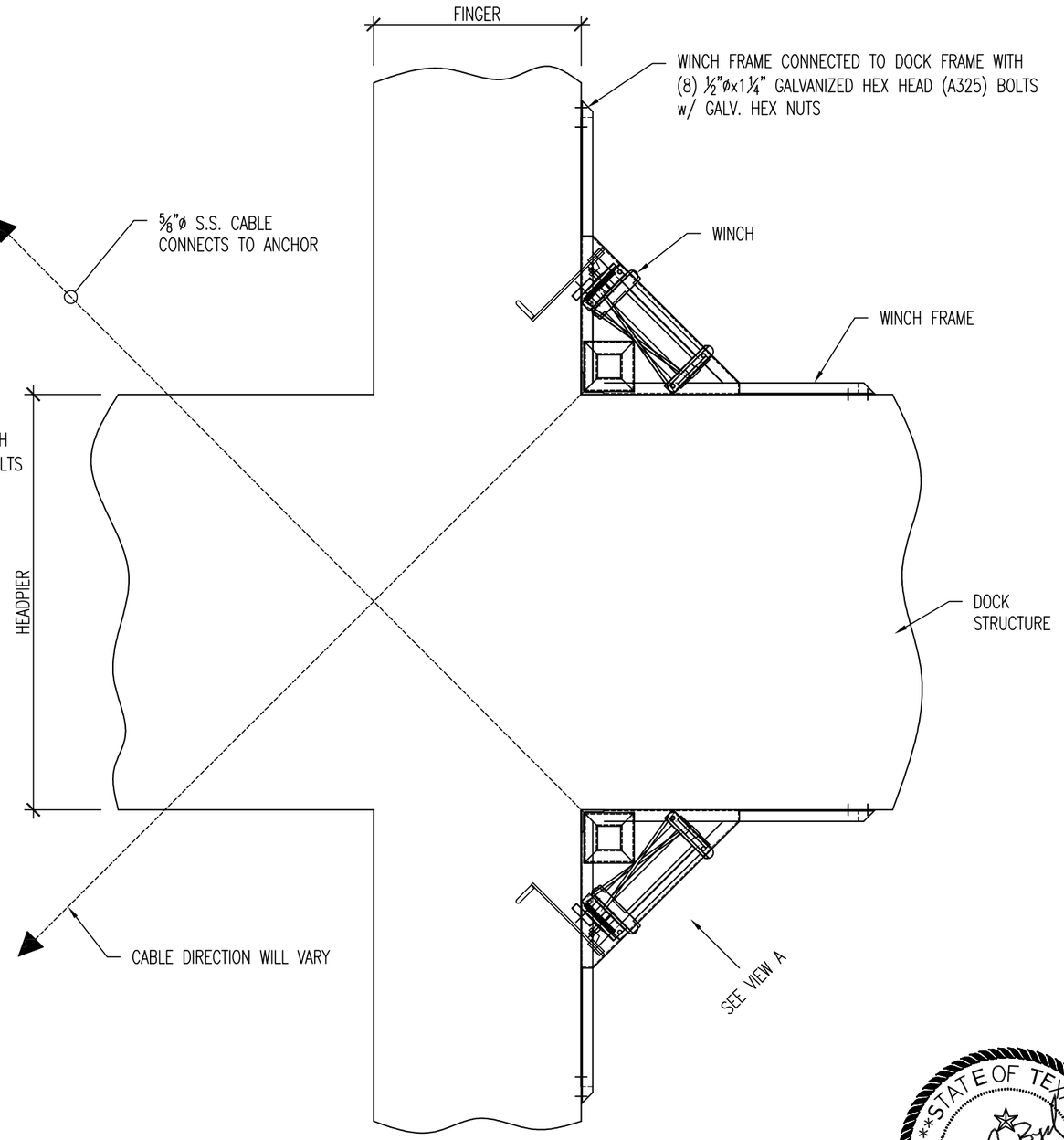
VIEW A



WINCH FRAME ISOMETRIC



CABLE GUIDE



PLAN VIEW

WINCH & FRAME DETAIL

STATE OF TEXAS
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June 18, 2024

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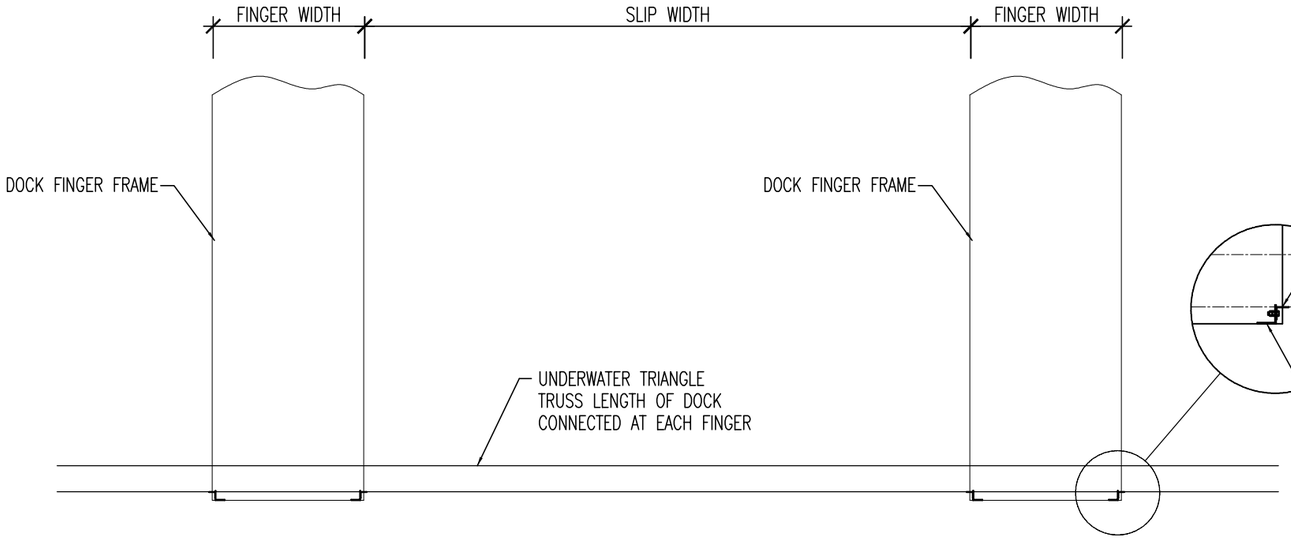
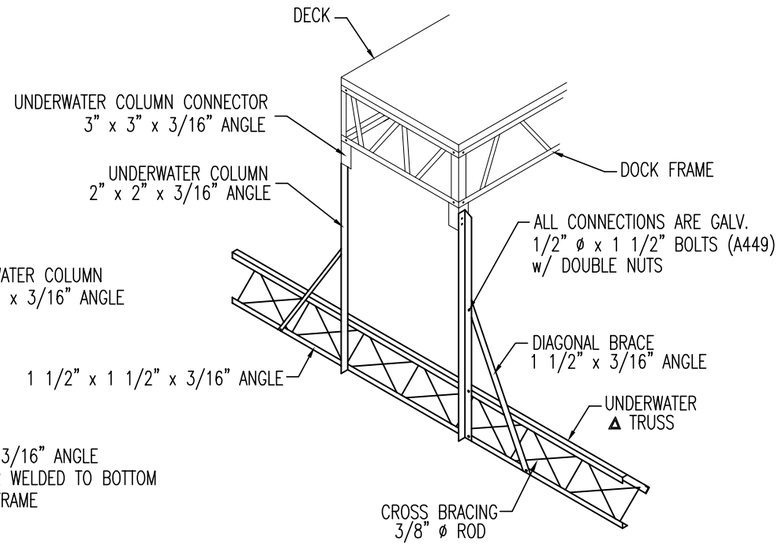
CHECKED BY:	JOB #	PLAN # 8780A
SCALE: 1/2" = 1'	DATE: 2/8/24	SHEET 17

TRAVIS CLUB DEVELOPMENT

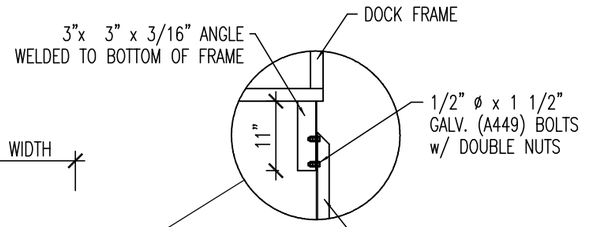
LAKE TRAVIS, TX

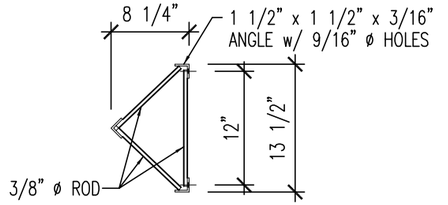


PLAN VIEW

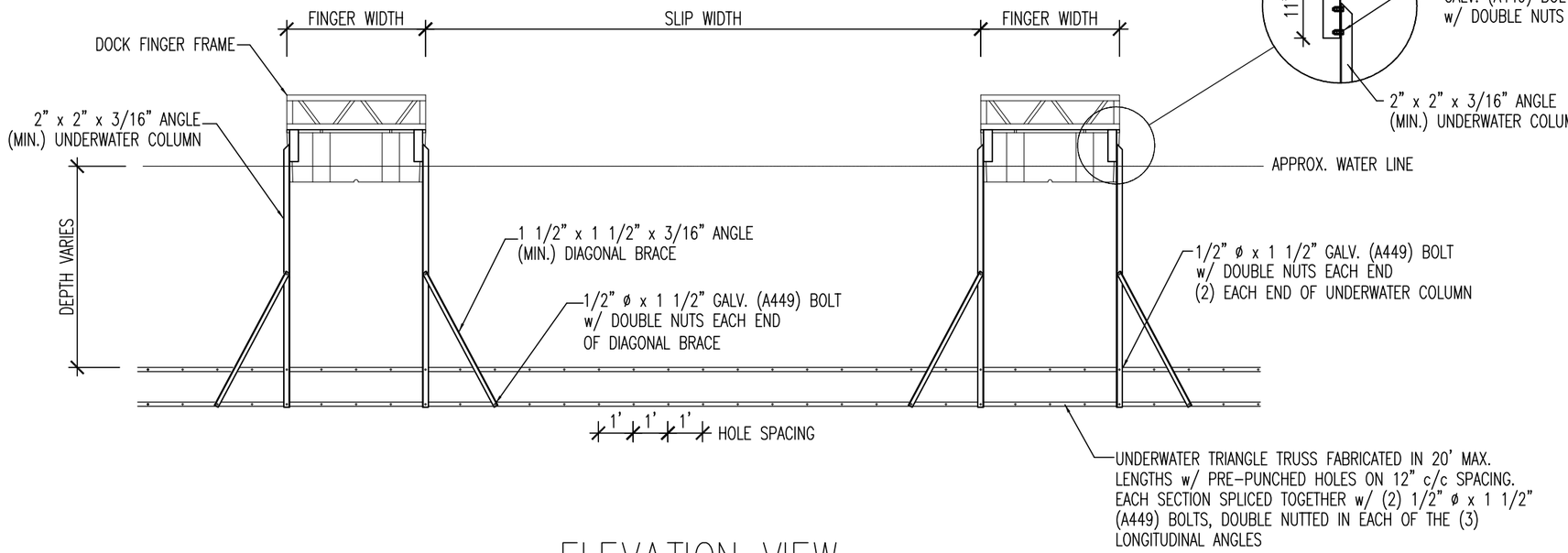


ISOMETRIC VIEW





TRUSS END VIEW



ELEVATION VIEW

STATE OF TEXAS
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June 18, 2024

UNDERWATER TRUSS

NO.	REVISION DESCRIPTION	BY	DATE

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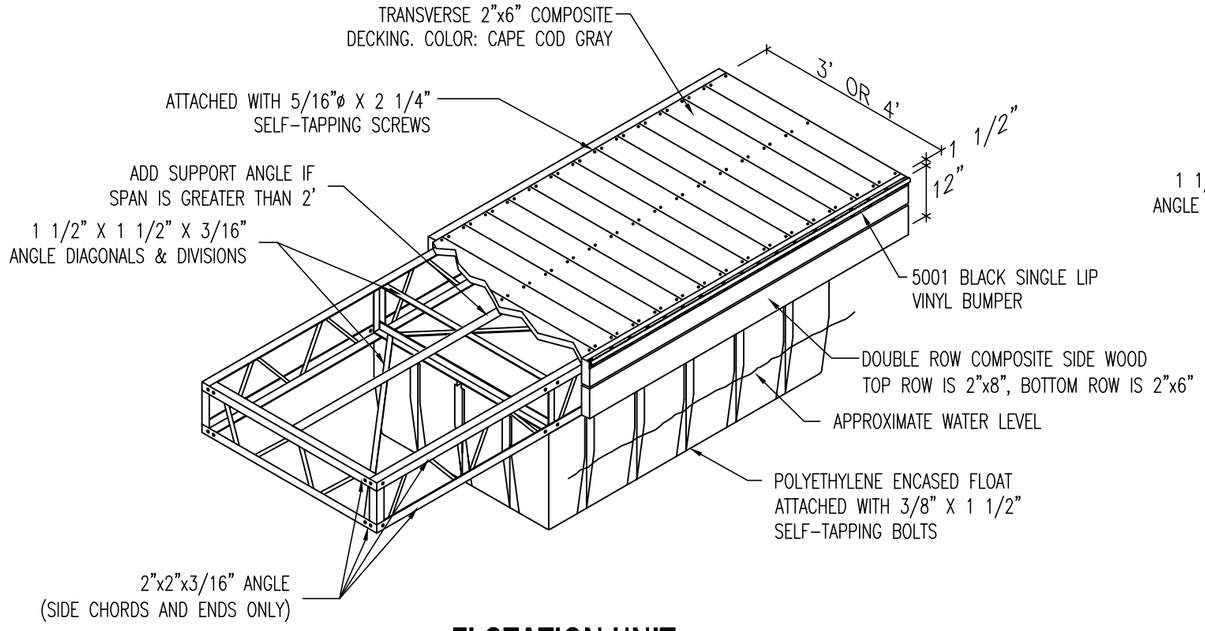
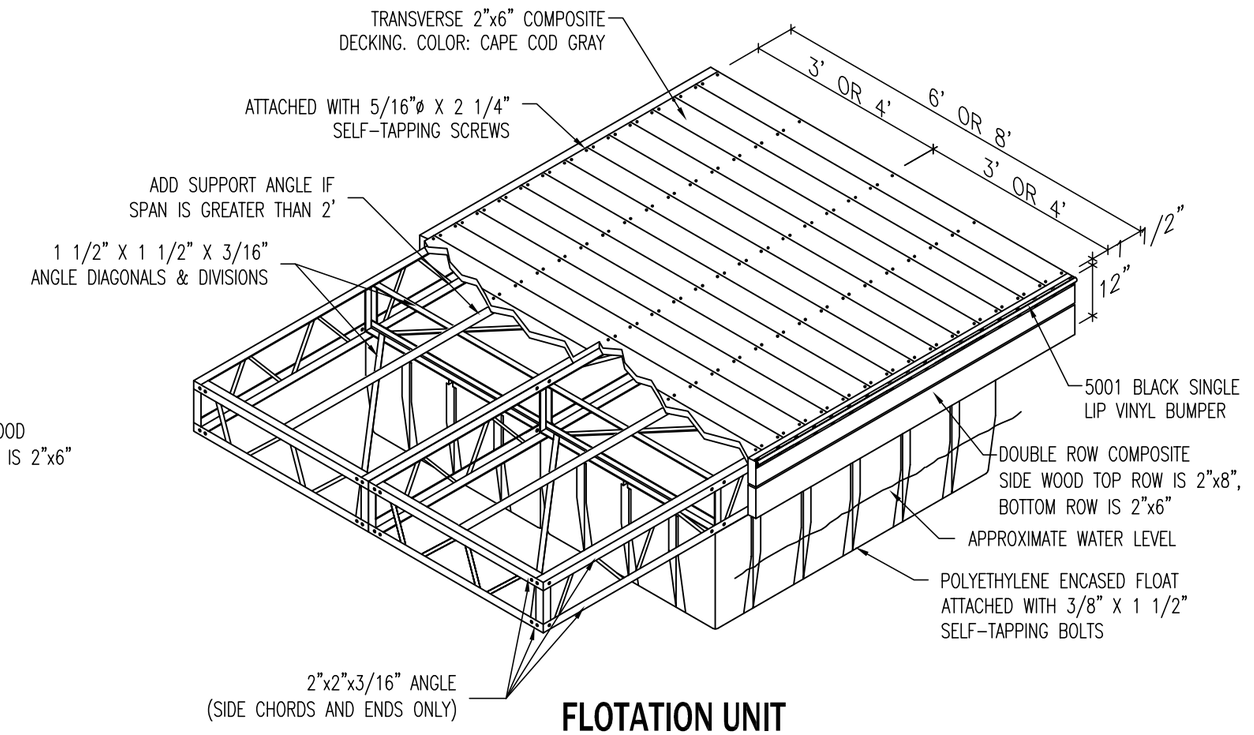
1501 E. ELECTRIC AVE.
McALESTER, OKLAHOMA, USA 74501
Phone: (918) 423-6833
Fax: (918) 423-3215

DRAWN BY: TGJ	FILE NAME: 8780A-2	
CHECKED BY:	JOB #	PLAN # 8780A
SCALE: 1/4" = 1'	DATE: 2/8/24	SHEET 18

TRAVIS CLUB DEVELOPMENT
LAKE TRAVIS, TX



FLOTATION UNIT



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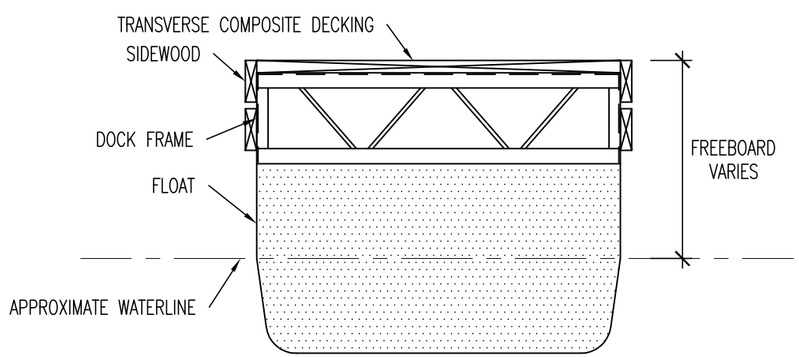
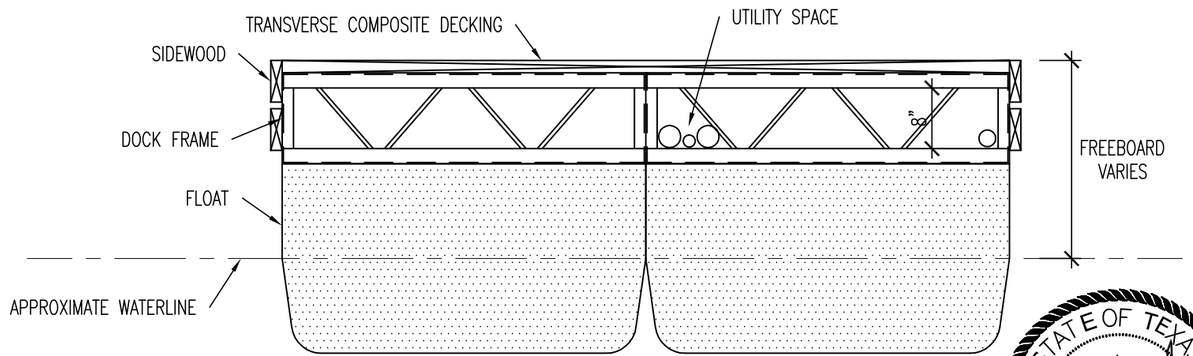


SECTION VIEW



SECTION VIEW

STATE OF TEXAS
SUZANNE C. BYRD
86877
LICENSED PROFESSIONAL ENGINEER

June 18, 2024

NO.	REVISION DESCRIPTION	BY	DATE
1.	CHANGED DECKING FROM CONCRETE TO COMPOSITE.	TGJ	5/31/24

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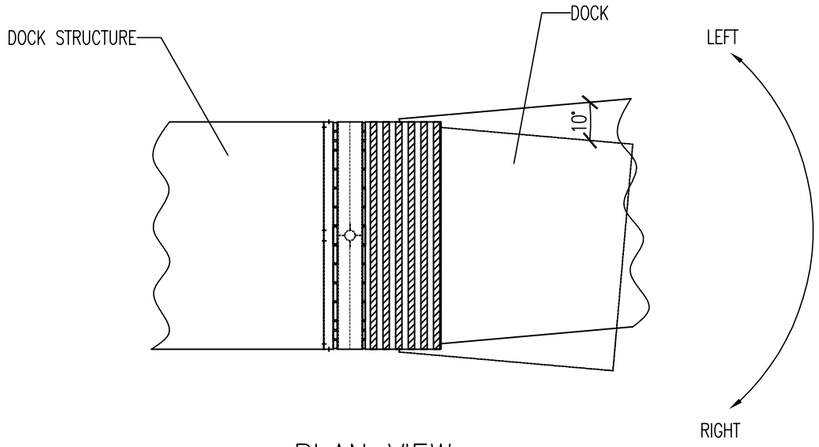
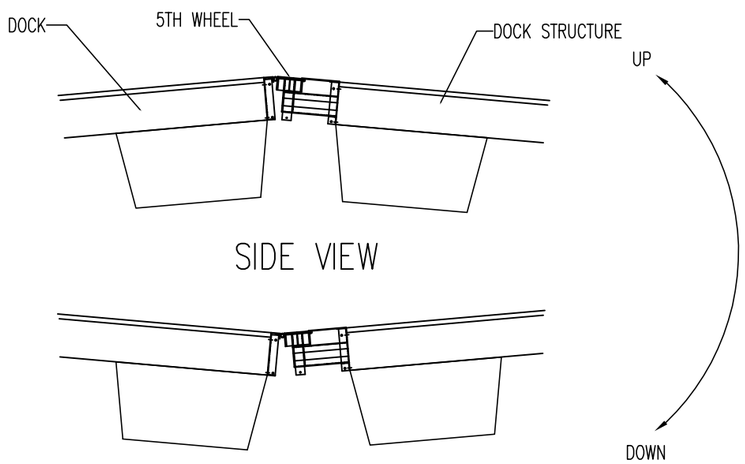
DRAWN BY: TGJ	FILE NAME: 8780A-2	
CHECKED BY:	JOB #	PLAN # 8780A
SCALE: 6" = 1'	DATE: 2/8/24	SHEET 19

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

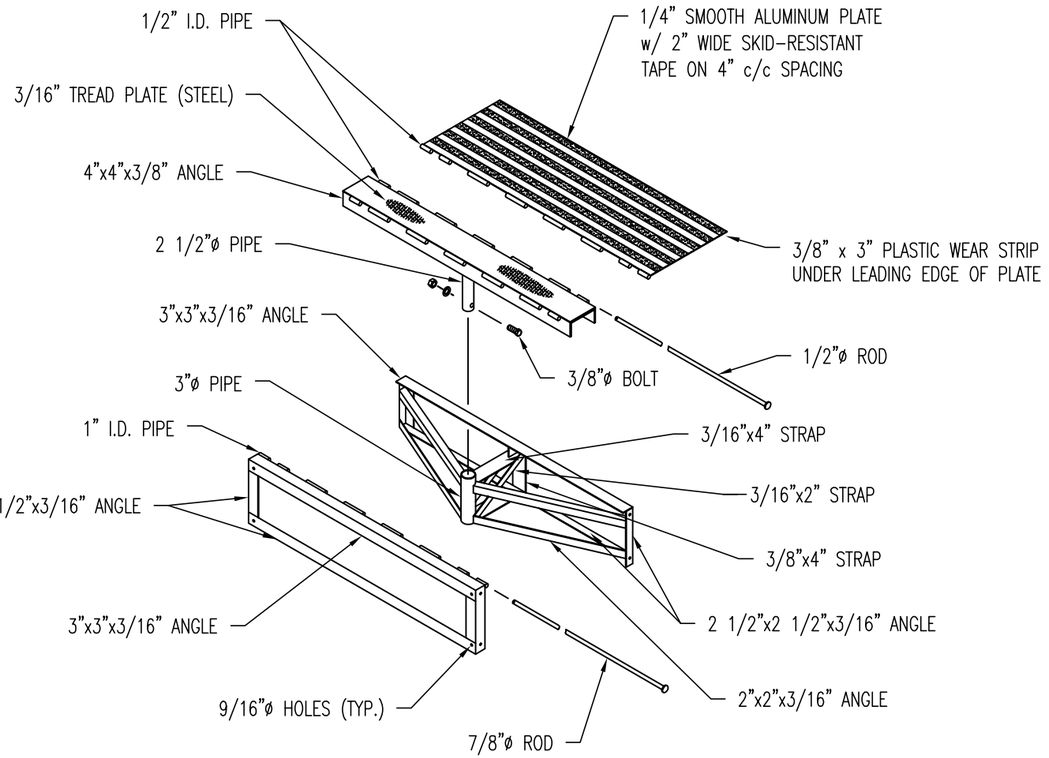


PLAN VIEW

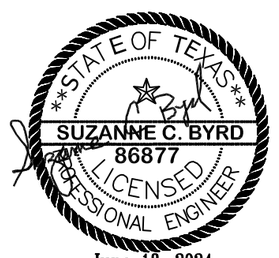


SIDE VIEW

SIDE VIEW



UNIT 5th WHEEL CONNECTION
(ISOMETRIC VIEW-EXPLODED)



June 18, 2024

NO.	REVISION DESCRIPTION	BY	DATE

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SCALE: 1/4" = 1'	DATE: 2/8/24	SHEET 20

TRAVIS CLUB DEVELOPMENT

LAKE TRAVIS, TX

MARINA UTILITIES FOR

TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD

SPICEWOOD, TX

CONSTRUCTION DOCUMENTS

AREA MAP: TEXAS

VICINITY MAP:

CODE ANALYSIS

ELECTRICAL: • 2023 NATIONAL ELECTRIC CODE (NFPA 70)	PLUMBING: • 2018 INTERNATIONAL PLUMBING CODE (IPC) • 2015 INTERNATIONAL BUILDING CODE (IBC)
TELECOMMUNICATIONS: • BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL - 2020 EDITION • NFPA 70 - NATIONAL ELECTRIC CODE - 2023 EDITION	FIRE PROTECTION: • 2015 INTERNATIONAL FIRE CODE (IFC) • 2019 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (NFPA 14) • 2021 FIRE PROTECTION STANDARD FOR MARINAS AND BOATYARDS (NFPA 303)

SHEET LIST

MARINA UTILITIES FOR
TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions:		
No.	Date	Description

SHEET: CV0.1

TITLE: COVER SHEET

DATE: 05/30/2024

JOB NO: 24023

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED
PROFESSIONAL ENGINEER

ELECTRICAL LEGEND

GENERAL

- PANEL
- HOT LEG
- HOT LEG WITH NEUTRAL
- HOT LEG WITH GROUND
- SWITCH LEG
- THREE-WAY CIRCUIT
- CIRCUIT HOME RUN

POWER

- NON-FUSED DISCONNECT
- TRANSFORMER
- 120V DUPLEX RECEPTACLE
- 120V QUAD RECEPTACLE
- 240V RECEPTACLE
- RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
- RECEPTACLE, IN-FLOOR BOX & COVER
- WEATHER-RESISTANT RECEPTACLE, IN-USE, METAL, HEAVY-DUTY, WITH GROUND FAULT CIRCUIT INTERRUPTER
- ABOVE COUNTER RECEPTACLE, COORDINATE WITH ARCHITECTURE
- UNDER COUNTER RECEPTACLE, COORDINATE WITH ARCHITECTURE
- DATA / TELEPHONE - STUB UP CONDUIT ABOVE WALL
- TELEPHONE - STUB UP CONDUIT ABOVE WALL
- JUNCTION BOX
- NORMALLY CLOSED CONTACT
- NORMALLY OPEN CONTACT
- CONTACT
- DELAY OFF
- THERMOSTAT
- TIMER
- FUSE

LIGHTING

- SWITCH
- 3 - 4 WAY SWITCH
- DIMMER SWITCH
- OCCUPANCY SENSOR SWITCH, TIME SETTING OF 30 MIN. UON
- CEILING-MOUNTED OCCUPANCY SENSOR, TIME SETTING OF 30 MIN. UON - HATCHING ON PLANS INDICATES AIMING OF SENSOR
- EXTERIOR PHOTO-ELECTRIC CELL SWITCH

CALL BEFORE YOU DIG

www.call811.com

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES INCLUDING AND NOT LIMITED TO GAS, WATER, ELECTRIC, CABLE, AND TELEPHONE COMPANIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL NOTIFY ONE-CALL SERVICE (CALL 811) SEVENTY-TWO (72) HOURS AS REQUIRED BY LAW BEFORE ANY EXCAVATION, AT ANY LOCATION.

WIRING COLOR CODE

CONDUCTOR	COLOR
120/208 (240)	
PHASE A	BLACK
PHASE B	RED
PHASE C (3Φ ONLY)	BLUE
NEUTRAL	WHITE
GROUND	GREEN
277/480	
PHASE A	BROWN
PHASE B	ORANGE
PHASE C (3Φ ONLY)	YELLOW
NEUTRAL	GRAY
GROUND	GREEN

ELECTRICAL ABBREVIATIONS

A / AB	ABOVE
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE FAULT CURRENT
AMP	AMPERE
AP	ANNUNCIATOR PANEL
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
BFG	BELOW FINISHED GRADE
BOD	BASIS OF DESIGN
C	CONTACTOR
CKT	CIRCUIT
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
DACR	DIGITAL ALARM COMMUNICATION RECEIVER
DACT	DIGITAL ALARM COMMUNICATION TRANSMITTER
DETD	DUAL ELEMENT TIME DELAY
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EDP	ELECTRICAL DATUM PLANE
EQUIP	EQUIPMENT
ETB	ELECTRONIC TRIP BREAKER
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM PANEL
FAS	FIRE ALARM SYSTEM
GD	GARBAGE DISPOSAL
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFM	GROUND FAULT MONITOR
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
HACR	HEATING, AIR CONDITIONING, REFRIGERATION
HP	HORSEPOWER
HZ	HERTZ
IPC	INTEGRATED POWER CENTER
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LC	LIGHTING CONTACTOR
LEUD	LOCAL ELECTRICAL AND UTILITY DEPARTMENT
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCS	MOLDED CASE SWITCH
MDP	MAIN DISTRIBUTION PANEL
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MLB	MICROLOGIC BREAKER
MLO	MAIN LUG ONLY
MOCP	MAIN OVERCURRENT PROTECTION
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OCP	OVERCURRENT PROTECTION
OH	OVERHEAD
PB	PUSH BUTTON
PH / Φ	PHASE
PNL	PANEL
PPC	PORTABLE POWER CABLE
RECPT	RECEPTACLE
SCH	SCHEDULE
SER	SERVICE ENTRANCE CONDUCTOR
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP
TEL	TELEPHONE
TMB	THERMAL MAGNETIC BREAKER
TYP	TYPICAL
U / UC	UNDER / UNDER CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UNDERSLAB
UW	UNDERWATER
V	VOLT
VA	VOLT-AMPERE
W	WATT
WR	WEATHER-RESISTANT
WRI	WEATHER-RESISTANT, IN-USE

MARINA POWER PEDESTAL LEGEND

OTHER NOTES:
- (1) kWH METER INCLUDED PER ACTIVE SIDE UNLESS OTHERWISE NOTED
- ALL SHORE POWER RECEPTACLES SHALL BE PROTECTED BY A LISTED GFPE DEVICE SET TO TRIP BETWEEN 25mA - 30mA AND 250ms OR FASTER LOCATED IN THE SHORE POWER PEDESTAL
- COORDINATE LIGHT COLOR AND/OR LENS COLOR WITH OWNER AND LOCAL REQUIREMENTS

	LABEL	SIDE 1	SIDE 2	LIGHTING	OTHER UTILITIES	MOUNTING	MODEL #
	A	N/A	N/A	10W LED W/ INTEGRAL PHOTOCELL	N/A	DECK-MOUNTED	HYPOWER LIGHTCENTER OR APPROVED EQUAL
	P1	(1) 30A 120V & (1) 50A 240V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	(1) 30A 120V & (1) 50A 240V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	10W LED W/ INTEGRAL PHOTOCELL	COORDINATE WITH OWNER	DECK-MOUNTED	HYPOWER POWERPORT OR APPROVED EQUAL
	P2	(1) 30A 120V & (1) 50A 240V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	(2) 30A 120V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	10W LED W/ INTEGRAL PHOTOCELL	COORDINATE WITH OWNER	DECK-MOUNTED	HYPOWER POWERPORT OR APPROVED EQUAL
	P3	(2) 30A 120V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	(2) 30A 120V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	10W LED W/ INTEGRAL PHOTOCELL	COORDINATE WITH OWNER	DECK-MOUNTED	HYPOWER POWERPORT OR APPROVED EQUAL
	P4	(2) 30A 120V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	BLANK	10W LED W/ INTEGRAL PHOTOCELL	COORDINATE WITH OWNER	DECK-MOUNTED	HYPOWER POWERPORT OR APPROVED EQUAL
	P5	(1) 30A 120V & (1) 50A 240V METERED SHORE POWER RECEPTACLES - 120V GFCI MAINTENANCE OUTLET	BLANK	10W LED W/ INTEGRAL PHOTOCELL	COORDINATE WITH OWNER	DECK-MOUNTED	HYPOWER POWERPORT OR APPROVED EQUAL

ELECTRICAL NOTES

1 APPLICABLE CODES INCLUDE, BUT ARE NOT RESTRICTED TO, THE LATEST ADOPTED VERSIONS OF THE FOLLOWING CODES AT THE TIME OF THE PLAN DATE:
- NFPA 70 NATIONAL ELECTRIC CODE
- INTERNATIONAL BUILDING CODE
- UL UNDERWRITERS LABORATORY
- NEMA

2 ELECTRICAL SYSTEM(S) SHALL BE INSTALLED COMPLETE WITH ALL WORK, MATERIALS, AND EQUIPMENT CUSTOMARILY CONSIDERED PART OF SUCH WORK FOR A FULLY OPERATIONAL, COMPLETE, AND CODE COMPLIANT SYSTEM.

3 PLANS ARE DIAGRAMMATIC AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEM. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. ANY GROSS INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING.

4 ALL ELECTRICAL CONNECTIONS SHALL BE MOUNTED ABOVE ELECTRICAL DATUM PLANE.

5 COORDINATE FINAL LOCATIONS OF ALL SWITCHES AND OUTLETS WITH OWNER. OWNER SHALL RETAIN RIGHT TO MAKE MINOR LOCATION ADJUSTMENTS PRIOR TO EQUIPMENT INSTALLATION WITHOUT ADDITIONAL COST.

6 ALL 3Φ CIRCUITS SHALL HAVE A-B-C PHASE ROTATION. ALL 3Φ ELECTRICAL SWITCHGEAR, SWITCHBOARDS, MCC'S, AND SIMILAR EQUIPMENT SHALL HAVE A-B-C PHASE ROTATION FROM LEFT TO RIGHT. REFER TO THE POWER WIRING COLOR CODE ON THIS SHEET.

7 VERIFY AVAILABLE CIRCUIT CURRENT WITH ELECTRICAL POWER SUPPLIER.

8 PROVIDE COMPLETE AND COMPLIANT EQUIPMENT AND SYSTEM GROUNDING THROUGHOUT ELECTRICAL INSTALLATION. INSTALL BONDING JUMPERS TO OUTLET BOXES IN METALLIC CONDUIT SYSTEMS.

9 UNLESS OTHERWISE NOTED, EACH CONDUIT OR RACEWAY SHALL CONTAIN ONLY A SINGLE CIRCUIT.

10 ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RAINTIGHT.

11 WITH ALL LIGHTING AND MOTOR LOADS OPERATING, CONTRACTOR SHALL VERIFY THAT THE PHASE BALANCE IN EACH PANEL IS WITHIN 5%.

12 COMPLETE ELECTRICAL SYSTEMS SHALL BE TESTED FOR COMPLIANCE AND FUNCTION IN ACCORDANCE WITH LOCAL INSPECTIONS AND NATIONAL CODES.

13 CONTRACTOR SHALL INSTALL EXPANSION AND DEFLECTION CONDUIT FITTINGS PER NEC 300.7(B), PLANS, AND SPECIFICATIONS.

14 THE AMPACITY, VOLTAGE, AND PHASE OF ALL DISCONNECTS SHALL BE RATED PER THE SPECIFIED CIRCUIT AND UPSTREAM OVERCURRENT PROTECTION UON. THE ENCLOSURE NEMA RATING SHALL BE COORDINATED AS REQUIRED BY THE ENVIRONMENT.

15 IF DISCREPANCIES EXIST WITHIN THE PLANS AND/OR SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING IT TO THE ATTENTION OF THE ENGINEER BEFORE WORK IS STARTED OR MATERIAL/EQUIPMENT IS ORDERED.

16 THE PLANS AND SPECIFICATIONS FOR THIS WORK HAVE BEEN PREPARED WITH THE INTENT TO BE AS ACCURATE AND COMPLETE AS PRACTICAL, BUT ERRORS, OMISSIONS, AND CONFLICTS MAY EXIST. PRIOR TO SUBMITTING A BID FOR CONSTRUCTING THE WORK, THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS IN DETAIL. ANY QUESTIONS OR COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING A BID. BY SUBMITTING A BID FOR THE WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS REVIEWED THE PLANS AND SPECIFICATIONS, UNDERSTANDS THE DESIGN INTENT, AND DOES NOT HAVE ANY FURTHER QUESTIONS OR COMMENTS.

17 CONTRACTOR SHALL FIELD VERIFY THAT ALL PARALLEL CONDUCTOR RUNS OF SERVICE ENTRANCE OR FEEDER CONDUCTORS FOR EACH CIRCUIT FOLLOW THE SAME PATH AND ARE OF EQUAL LENGTH.

18 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY FEES AND CHARGES FOR INSTALLATION AND UTILITY UPGRADES FOR PROJECT.

19 CONTRACTOR SHALL COORDINATE AND PAY FOR ALL PERMITS, INSPECTION FEES, UTILITY FEES, AND UTILITY CHARGES FOR THIS PROJECT.

20 CONTRACTOR SHALL WARRANTY ALL SYSTEMS FOR PARTS, EQUIPMENT, MATERIAL, AND LABOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

21 THE OWNER AND/OR OWNER'S REPRESENTATIVE SHALL INSPECT THE INSTALLATION AT SUBSTANTIAL COMPLETION AND AT ONE YEAR FROM SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIONS THAT DO NOT CONFORM TO THE CODE AND/OR THE CONTRACT DOCUMENTS.

22 KELLEMS GRIPS SHALL BE INSTALLED SO THE GRIP IS ALIGNED WITH THE CABLE TO AVOID ANY PRESSURE POINTS ANYWHERE ALONG THE LENGTH OF THE GRIP. THIS INCLUDES INSTALLATION PROJECTS WHERE TIDAL ACTION MAY CHANGE THE ANGLE OF THE CABLE IN REFERENCE TO THE GRIP POSITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBSERVING AND MAKING ANY ADJUSTMENTS TO THE GRIP MOUNTING POSITION AND CABLE LENGTHS AS REQUIRED TO MITIGATE PRESSURE POINTS AT LOW AND HIGH TIDES. REFER TO PLANS AND DETAILS WHERE THE GRIPS ARE INDENDED TO BE INSTALLED. ALL KELLEMS GRIPS, SUPPORT CABLE, AND MOUNTING HARDWARE SHALL BE STAINLESS STEEL.

23 LABEL REQUIREMENTS:
A. ALL ELECTRICAL EQUIPMENT SHALL BE AFFIXED WITH A PERMANENT LABEL STATING THE EQUIPMENT NAME, VOLTAGE AND PHASE CLASS, AMPACITY, AND WHERE THE EQUIPMENT IS FED FROM.
B. PANEL DIRECTORIES SHALL BE TYPED SHOWING EACH BRANCH BREAKER LOAD AS SHOWN IN THE PANEL SCHEDULES.
C. EACH SHORE POWER PEDESTAL SHALL BE LABELED WITH THE UPSTREAM CIRCUIT AND PANEL.

24 CONTRACTOR SHALL CARRY CONTINGENCY IN THE AMOUNT OF 10% OF BID.

25 SUBMITTAL REQUIREMENTS: CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL DETAILED PRODUCT INFORMATION ON ALL EQUIPMENT INCORPORATED IN THE PROJECT RELATED TO THE SPECIFIC CONTRACTOR TRADE. SUBMITTAL SHALL BE PROVIDED, AND ENGINEER SHALL REVIEW AND APPROVE, PRIOR TO EQUIPMENT PURCHASE. FOUR COPIES OF SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER. TWO COPIES SHALL BE RETURNED TO THE CONTRACTOR. PRIOR TO SUBMITTAL, CONTRACTOR SHALL REVIEW AND CERTIFY BY SIGNATURE THE SUBMITTED EQUIPMENT MEETS SPECIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS, FITTINGS, AND CONSTRUCTION FEATURES RELATIVE TO EQUIPMENT. APPROVAL OF SUBMITTAL INFORMATION BY THE ENGINEER ONLY REFERS TO MATERIALS, DESIGN, AND ADHERENCE TO SPECIFICATIONS. "APPROVED EQUAL" MEANS THE CONTRACTOR SHALL SUBMIT A REQUEST FOR ALTERNATE EQUIPMENT AND/OR MATERIAL FOR ENGINEER'S REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT ASSUME THE ALTERNATE WILL BE APPROVED.

26 ALL CONNECTIONS SHALL BE MADE WITH A LISTED BI-METAL GALVANIC CORROSION INHIBITOR.

27 ALL ALUMINUM CONNECTIONS AND TERMINATION BLOCKS SHALL BE LISTED FOR BOTH ALUMINUM AND COPPER CONDUCTORS.

BRANCH CIRCUIT AND FEEDER LEGEND W/ EQUIP. GND.

ALL WIRE SIZED FOR THWN COPPER
ALL CONDUIT SIZED FOR RIGID PVC, SCHEDULE 40; RESIZE FOR DIFFERENT CONDUIT AS REQUIRED
FEEDER LABEL WITH * IN THE PLANS INDICATES NEUTRAL IS NOT REQUIRED

LABEL	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Φ	VOLTAGE RANGE
A20	(2) #12 & (1) #12 GND.	1	1/2"	20	1	120 OR 277
A30	(2) #10 & (1) #10 GND.	1	3/4"	30	1	120 OR 277
A50	(2) #8 & (1) #10 GND.	1	3/4"	50	1	120 OR 277
B20	(3) #12 & (1) #12 GND.	1	1/2"	20	1	208 - 480
B30	(3) #10 & (1) #10 GND.	1	3/4"	30	1	208 - 480
B50	(3) #8 & (1) #10 GND.	1	3/4"	50	1	208 - 480
B60	(3) #6 & (1) #10 GND.	1	3/4"	65	1	208 - 480
B80	(3) #4 & (1) #8 GND.	1	1"	85	1	208 - 480
B100	(3) #3 & (1) #8 GND.	1	1-1/2"	100	1	208 - 480
B110	(3) #2 & (1) #6 GND.	1	1-1/2"	115	1	208 - 480
B125	(3) #1 & (1) #6 GND.	1	1-1/2"	130	1	208 - 480
B150	(3) #1/0 & (1) #6 GND.	1	2"	150	1	208 - 480
B175	(3) #2/0 & (1) #6 GND.	1	2"	175	1	208 - 480
B200	(3) #3/0 & (1) #6 GND.	1	2"	200	1	208 - 480
B225	(3) #4/0 & (1) #4 GND.	1	2-1/2"	230	1	208 - 480
B250	(3) #250 KCM & (1) #4 GND.	1	2-1/2"	255	1	208 - 480
B275	(3) #300 KCM & (1) #4 GND.	1	2-1/2"	285	1	208 - 480
B300	(3) #350 KCM & (1) #4 GND.	1	3"	310	1	208 - 480
B350	(3) #500 KCM & (1) #3 GND.	1	3"	380	1	208 - 480
B400	(3) #3/0 & (1) #3 GND.	2	2"	400	1	208 - 480
B450	(3) #4/0 & (1) #2 GND.	2	2-1/2"	460	1	208 - 480
B500	(3) #250 KCM & (1) #2 GND.	2	2-1/2"	510	1	208 - 480
B600	(3) #350 KCM & (1) #1 GND.	2	3"	620	1	208 - 480
B800	(3) #300 KCM & (1) #1/0 GND.	3	2-1/2"	855	1	208 - 480
B1000	(3) #250 KCM & (1) #2/0 GND.	4	2-1/2"	1020	1	208 - 480
B1200	(3) #350 KCM & (1) #3/0 GND.	4	3"	1240	1	208 - 480
C20	(4) #12 & (1) #12 GND.	1	1/2"	20	3	208 - 480
C30	(4) #10 & (1) #10 GND.	1	3/4"	30	3	208 - 480
C50	(4) #8 & (1) #10 GND.	1	3/4"	50	3	208 - 480
C60	(4) #6 & (1) #10 GND.	1	1"	65	3	208 - 480
C80	(4) #4 & (1) #8 GND.	1	1-1/2"	85	3	208 - 480
C100	(4) #3 & (1) #8 GND.	1	1-1/2"	100	3	208 - 480
C110	(4) #2 & (1) #6 GND.	1	1-1/2"	115	3	208 - 480
C125	(4) #1 & (1) #6 GND.	1	1-1/2"	130	3	208 - 480
C150	(4) #1/0 & (1) #6 GND.	1	2"	150	3	208 - 480
C175	(4) #2/0 & (1) #6 GND.	1	2"	175	3	208 - 480
C200	(4) #3/0 & (1) #6 GND.	1	2"	200	3	208 - 480
C225	(4) #4/0 & (1) #4 GND.	1	3"	230	3	208 - 480
C250	(4) #250 KCM & (1) #4 GND.	1	3"	255	3	208 - 480
C300	(4) #350 KCM & (1) #4 GND.	1	3"	310	3	208 - 480
C350	(4) #500 KCM & (1) #3 GND.	1	3-1/2"	380	3	208 - 480
C400	(4) #3/0 & (1) #3 GND.	2	2"	400	3	208 - 480
C450	(4) #4/0 & (1) #2 GND.	2	3"	460	3	208 - 480
C500	(4) #250 KCM & (1) #2 GND.	2	3"	510	3	208 - 480
C600	(4) #350 KCM & (1) #1 GND.	2	3"	620	3	208 - 480
C800	(4) #300 KCM & (1) #1/0 GND.	3	3"	855	3	208 - 480
C1000	(4) #250 KCM & (1) #2/0 GND.	4	3"	1020	3	208 - 480
C1200	(4) #350 KCM & (1) #3/0 GND.	4	3"	1240	3	208 - 480
C1400	(4) #500 KCM & (1) #4/0 GND.	4	3-1/2"	1520	3	208 - 480
C1600	(4) #400 KCM & (1) #4/0 GND.	5	3"	1675	3	208 - 480
C2000	(4) #600 KCM & (1) #250 KCM GND.	5	4"	2100	3	208 - 480

SERVICE ENTRANCE CONDUCTOR & CONDUIT LEGEND

ALL WIRE SIZED FOR THWN COPPER
ALL CONDUIT SIZED FOR RIGID PVC, SCHEDULE 40; RESIZE FOR DIFFERENT CONDUIT AS REQUIRED

LABEL	GROUNDING ELECTRODE CONDUCTOR	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Φ	VOLTAGE RANGE
1S60	#8	(3) #6	1	2"	65	1	208 - 480
1S100	#8	(3) #3	1	3"	100	1	208 - 480
1S150	#6	(3) #1/0	1	3"	150	1	208 - 480
1S200	#4	(3) #3/0	1	3"	200	1	208 - 480
1S225	#2	(3) #4/0	1	3"	230	1	208 - 480
1S400	#1/0	(3) #3/0	2	3"	400	1	208 - 480
1S400	#1/0	(3) #600 KCM	1	4"	420	1	208 - 480
1S600	#3/0	(3) #3/0	3	3"	600	1	208 - 480
1S600	#3/0	(3) #350 KCM	2	3"	620	1	208 - 480
1S800	#3/0	(3) #3/0	4	3"	800	1	208 - 480
1S800	#3/0	(3) #300 KCM	3	3"	855	1	208 - 480
1S1000	#3/0	(3) #250 KCM	4	3"	1020	1	208 - 480
3S100	#8	(4) #3	1	3"	100	3	208 - 480
3S200	#4	(4) #3/0	1	3"	200	3	208 - 480
3S225	#2	(4) #4/0	1	3"	230	3	208 - 480
3S400	#1/0	(4) #3/0	2	3"	400	3	208 - 480
3S600	#3/0	(4) #350 KCM	2	3"	620	3	208 - 480
3S800	#3/0	(4) #300 KCM	3	3"	855	3	208 - 480
3S1000	#3/0	(4) #400 KCM	3	3"	1005	3	208 - 480
3S1000	#3/0	(4) #250 KCM	4	3"	1020	3	208 - 480
3S1200	#3/0	(4) #350 KCM	4	3"	1240	3	208 - 480
3S1400	#3/0	(4) #500 KCM	4	4"	1520	3	208 - 480
3S1600	#3/0	(4) #400 KCM	5	3"	1675	3	208 - 480
3S2000	#3/0	(4) #600 KCM	5	4"	2100	3	208 - 480
3S2500	#3/0	(4) #600 KCM	6	4"	2520	3	208 - 480
3S3000	#3/0	(4) #500 KCM	8	4"	3040	3	208 - 480
3S3500	#3/0	(4) #700 KCM	8	4"	3680	3	208 - 480
3S3500	#3/0	(4) #600 KCM	9	4"	3780	3	208 - 480
3S4000	#3/0	(4) #600 KCM	10	4"	4200	3	208 - 480

PORTABLE POWER CABLE BRANCH CIRCUIT AND FEEDER LEGEND

ALL WIRE SIZED USING NEC 400.5(A)(2), WITH GREEN INSULATED GROUND
ALL CONDUCTORS SHALL BE COPPER
- WET LISTED
- APPROVED FOR MARINA USE
- SUITABLE FOR CONTINUOUS SUBMERSION IN WATER

ALL CONDUIT SIZED FOR RIGID PVC, SCHEDULE 40; RESIZE FOR DIFFERENT CONDUIT AS REQUIRED
FEEDER LABEL WITH * IN THE PLANS INDICATES NEUTRAL IS NOT REQUIRED

LABEL	CABLE FOR MARINA / BOATYARD APPLICATION	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Φ	VOLTAGE RANGE
1G35	#12 AWG SOOW CABLE	1	1-1/2"	37	1	240 - 480
1G50	#10 AWG SOOW CABLE	1	1-1/2"	52	1	240 - 480
1G60	#8 AWG TYPE G OR W CABLE	1	2"	65	1	240 - 480
1G80	#6 AWG TYPE G OR W CABLE	1	2"	88	1	240 - 480
1G100	#4 AWG TYPE G OR W CABLE	1	2"	115	1	240 - 480
1G125	#3 AWG TYPE G OR W CABLE	1	2"	135	1	240 - 480
1G150	#2 AWG TYPE G OR W CABLE	1	2-1/2"	152	1	240 - 480
1G175	#1 AWG TYPE G OR W CABLE	1	2-1/2"	178	1	240 - 480
1G200	#1/0 AWG TYPE G OR W CABLE	1	3"	207	1	240 - 480
1G225	#2/0 AWG TYPE G OR W CABLE	1	3"	238	1	240 - 480
1G250	#3/0 AWG TYPE G OR W CABLE	1	3"	275	1	240 - 480
1G300	#4/0 AWG TYPE G OR W CABLE	1	3-1/2"	317	1	240 - 480
1G350	250 KcMIL TYPE G OR W CABLE	1	4"	354	1	240 - 480
1G400	#1/0 AWG TYPE G OR W CABLE	2	3"	414	1	240 - 480
1G450	#400 AWG TYPE G OR W CABLE	1	4"	469	1	240 - 480
1G500	500 KcMIL TYPE G OR W CABLE	1	5"	537	1	240 - 480
1G500	#3/0 AWG TYPE G OR W CABLE	2	3"	550	1	240 - 480
1G600	#4/0 AWG TYPE G OR W CABLE	2	3-1/2"	634	1	240 - 480
1G600	#1/0 AWG TYPE G OR W CABLE	3	3"	621	1	240 - 480
1G800	350 KcMIL TYPE G OR W CABLE	2	4"	870	1	240 - 480
1G800	#3/0 AWG TYPE G OR W CABLE	3	3"	825	1	240 - 480
1G800	#1/0 AWG TYPE G OR W CABLE	4	3"	828	1	240 - 480
1G1000	500 KcMIL TYPE G OR W CABLE	2	5"	1074	1	240 - 480
1G1000	250 KcMIL TYPE G OR W CABLE	3	4"	1062	1	240 - 480
1G1000	#3/0 AWG TYPE G OR W CABLE	4	3"	1100	1	240 - 480
1G1200	350 KcMIL TYPE G OR W CABLE	3	4"	1305	1	240 - 480
1G1200	#4/0 AWG TYPE G OR W CABLE	4	3-1/2"	1268	1	240 - 480
3G30	#12 AWG TYPE G OR W CABLE	1	1-1/2"	31	3	208 - 480
3G40	#10 AWG TYPE G OR W CABLE	1	1-1/2"	43	3	208 - 480
3G50	#8 AWG TYPE G OR W CABLE	1	2"	57	3	208 - 480
3G70	#6 AWG TYPE G OR W CABLE	1	2"	77	3	208 - 480
3G100	#4 AWG TYPE G OR W CABLE	1	2"	101	3	208 - 480
3G110	#3 AWG TYPE G OR W CABLE	1	3"	118	3	208 - 480
3G125	#2 AWG TYPE G OR W CABLE	1	3"	133	3	208 - 480
3G150	#1 AWG TYPE G OR W CABLE	1	3"	156	3	208 - 480
3G175	#1/0 AWG TYPE G OR W CABLE	1	3"	181	3	208 - 480
3G200	#2/0 AWG TYPE G OR W CABLE	1	3"	208	3	208 - 480
3G225	#3/0 AWG TYPE G OR W CABLE	1	3"	241	3	208 - 480
3G250	#4/0 AWG TYPE G OR W CABLE	1	4"	277	3	208 - 480
3G300	250 KcMIL TYPE G OR W CABLE	1	4"	310	3	208 - 480
3G350	350 KcMIL TYPE G OR W CABLE	1	5"	381	3	208 - 480
3G400	400 KcMIL TYPE G OR W CABLE	1	5"	410	3	208 - 480
3G400	#2/0 AWG TYPE G OR W CABLE	2	3"	416	3	208 - 480
3G450	500 KcMIL TYPE G OR W CABLE	1	5"	470	3	208 - 480
3G450	#3/0 AWG TYPE G OR W CABLE	2	3"	482	3	208 - 480
3G500	#1/0 AWG TYPE G OR W CABLE	3	3"	543	3	208 - 480
3G500	#4/0 AWG TYPE G OR W CABLE	2	4"	554	3	208 - 480
3G600	250 KcMILTYPE G OR W CABLE	2	4"	620	3	208 - 480
3G600	#2/0 AWG TYPE G OR W CABLE	3	3"	624	3	208 - 480
3G800	#4/0 AWG TYPE G OR W CABLE	3	4"	831	3	208 - 480
3G800	#2/0 AWG TYPE G OR W CABLE	4	3"	832	3	208 - 480
3G1000	350 KcMIL TYPE G OR W CABLE	3	5"	1143	3	208 - 480
3G1000	#4/0 AWG TYPE G OR W CABLE	4	4"	1108	3	208 - 480
3G1200	400 KcMIL TYPE G OR W CABLE	3	5"	1230	3	208 - 480
3G1200	250 KcMIL TYPE G OR W CABLE	4	4"	1240	3	208 - 480

LIGHTING FIXTURE SCHEDULE

NOTES:
A. HATCHING ON PLANS INDICATES 24/7 LIGHT WIRED HOT TO CIRCUIT INDICATED ON PLANS
B. HATCHING ON PLANS INDICATES ILLUMINATED SIDES OF LIGHT - SEE PLANS FOR CHEVRONS

LABEL	MANUFACTURER	MODEL	LAMP	DESCRIPTION	WATTS	VOLTS
P	CHLORIDE	P1S	LED	LED STEP LIGHT	5	120

CONTACTOR SCHEDULE

LABEL	SIZE	AREA	CIRCUITS	CONTROL
C1	1-POLE - 20A	GANGWAY LIGHTING	PLA-15 SWITCH LEG	PHOTOCELL

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER: TRAVIS CLUB

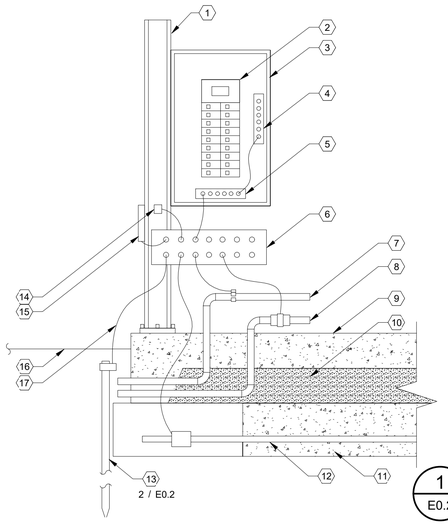
ENGINEER: MAFFETT LOFTIS ENGINEERING, LLC
1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions:
No. Date Description

SHEET: E0.1
TITLE: ELECTRICAL NOTES AND LEGENDS
JOB NO: 24023
DATE: 05/30/2024
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
136175
LICENSED PROFESSIONAL ENGINEER
05/30/2024

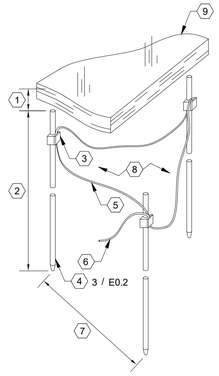


ELECTRICAL NOTES

NUMBERED NOTES
1. METAL FRAME OF BUILDING OR MOUNTING STRUCTURE.
2. MAIN DISCONNECT.
3. SERVICE EQUIPMENT.
4. NEUTRAL BAR.
5. GROUNDING BAR.
6. GROUNDING PLATE OR BONDING POINT AS REQUIRED.
7. WATER PIPING ON LOAD SIDE OF METER.
8. GAS PIPING ON LOAD SIDE OF METER.
9. FINISHED FLOOR.
10. FILL GRAVEL.
11. CONCRETE FOOTER.
12. CONCRETE-ENCASED ELECTRODE, 1/2" x 20' FOR NEW CONSTRUCTION.
13. GROUND ROD, SEE REFERENCED DETAIL.
14. BONDING POINT.
15. GROUND BAR FOR LOW VOLTAGE UTILITIES.
16. FINISHED GRADE.
17. GROUNDING ELECTRODE CONDUCTOR.

GENERAL NOTES
- A. SHALL BE PER NEC ARTICLE 250.
- B. ALL PROJECTS MAY NOT INCLUDE METAL WATER PIPE, GAS LINE, OR METAL CONSTRUCTION.
- C. CONFIGURATION OF SERVICE MAY DIFFER, COORDINATE INSTALLATION.

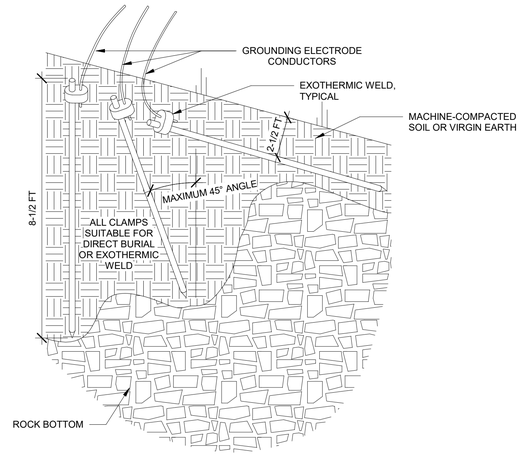
1 / E0.2 — GROUNDING DTL
NOT TO SCALE



ELECTRICAL NOTES

NUMBERED NOTES
1. INSTALL GROUND ROD BELOW GROUND FREEZING DEPTH. COORDINATE DEPTH WITH AREA OF INSTALLATION.
2. GROUND ROD TO HAVE A MINIMUM OF 8' IN CONTACT WITH UNDISTURBED EARTH.
3. UL LISTED UNDERGROUND EXOTHERMIC WELD OR APPROVED CLAMP, TYP.
4. UL LISTED 5/8" Ø x 10' DRIVEN GROUND ROD, TYP. COORDINATE LOCATION WITH SITE. SEE REFERENCED DETAIL.
5. GROUNDING CONDUCTOR, TYP. SAME SIZE AS GROUNDING ELECTRODE CONDUCTOR.
6. GROUNDING ELECTRODE CONDUCTOR.
7. GROUND RODS TO BE INSTALLED IN A TRIANGULAR PATTERN WITH MIN. 6' APART, TYP.
8. VIRGIN EARTH.
9. FINISHED GRADE.

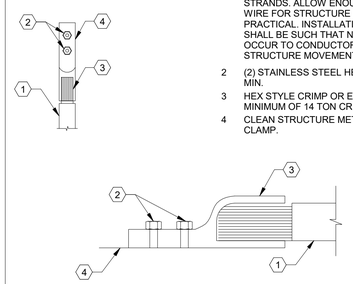
2 / E0.2 — GROUND ROD DTL
NOT TO SCALE



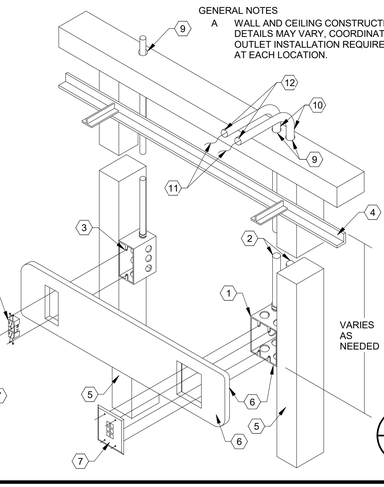
3 / E0.2 — GND ROD INSTALL. DTL
NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES
1. BONDING CONDUCTOR #3/0 GREEN INSULATION COPPER CABLE, MSHA ACCEPTED, WET LOCATIONS, RESISTANT TO OILS, ACIDS, ALKALINES, AND ABRASION-RESISTANT, OR 12" OF GREEN TAPE AT EACH END. CONDUCTOR STRAND SHALL BE MINIMUM OF 448/24 STRANDS. ALLOW ENOUGH SLACK IN WIRE FOR STRUCTURE MOVEMENT AS PRACTICAL. INSTALLATION LOCATION SHALL BE SUCH THAT NO DAMAGE WILL OCCUR TO CONDUCTOR DURING STRUCTURE MOVEMENT.
2. (2) STAINLESS STEEL HEX BOLTS 5/16 - 18 MIN.
3. HEX STYLE CRIMP OR EQUAL, USING A MINIMUM OF 14 TON CRIMP TOOL.
4. CLEAN STRUCTURE METAL BEHIND CLAMP.



4 / E0.2 — BONDING DTL
NOT TO SCALE



ELECTRICAL NOTES

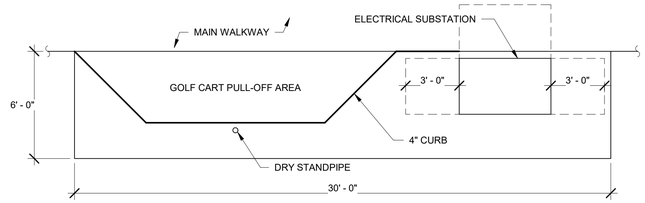
NUMBERED NOTES
1. CONDUITS FOR PRIMARY, SERVICE, FEEDER, OR BRANCH CIRCUITS AS REQUIRED. SEE NOTE 2 FOR CONDUIT DEPTH BASED ON TYPE.
2. DEPTH FOR CONDUITS VARY BY TYPE AS REQUIRED. FOR CONDUITS CONTAINING PRIMARY CONDUCTORS, INSTALL AT A MINIMUM OF 48" BFG. FOR CONDUITS CONTAINING SERVICE CONDUCTORS, INSTALL AT A MINIMUM OF 36" BFG. FOR FEEDER AND BRANCH CIRCUIT CONDUITS, INSTALL AT A MINIMUM 24" BFG.
3. COMMUNICATION CONDUITS AS REQUIRED. SEE NOTE 4 FOR CONDUIT DEPTH.
4. COMMUNICATIONS CONDUIT SHALL BE AT A MINIMUM OF 2'-0" BFG, COORDINATE DEPTH WITH ELECTRICAL. WHERE PRACTICAL, COMMUNICATIONS CONDUITS SHALL HAVE A SEPARATION OF 1'-0" FROM ELECTRICAL CONDUITS.
5. WARNING TAPE.
6. MACHINE COMPACTED GRAVEL FILL FOR AREAS WHEN CROSSING DRIVEWAYS, ROADS, AND PARKING LOTS. DIRT FILL AND COMPACT ALL OTHER AREAS.
7. FINISHED GRADE.
8. MATCH EXISTING SURFACE CONDITIONS.

5 / E0.2 — DITCH DTL
NOT TO SCALE

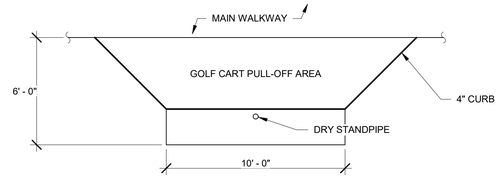
ELECTRICAL NOTES

NUMBERED NOTES
1. BOND NEUTRAL TO GROUND AT FIRST OVERCURRENT PROTECTION DEVICE.
2. RODENT WIRE GUARD.
3. SUPPORT FORM TO RAISE TRANSFORMER ABOVE ELECTRICAL DATUM PLANE.
4. SECONDARY TO DISTRIBUTION PANEL.
5. BOND GROUND TO DOCK METAL STRUCTURE.
6. ELECTRICAL DATUM PLANE, SEE REFERENCED DETAIL.
7. LAKE BOTTOM.
8. WATER LEVEL.
9. DECK.
10. NON-COMBUSTIBLE MATERIAL.
11. INSTALL A LISTED GROUNDING TERMINAL BAR IN TRANSFORMER ENCLOSURE.

6 / E0.2 — MARINA TRANSFORMER DTL
NOT TO SCALE



DOCK WITH ELECTRICAL SUBSTATION



DOCK WITHOUT ELECTRICAL SUBSTATION

7 / E0.2 — TYPICAL GOLF CART PULL-OFF PLATFORM
NOT TO SCALE

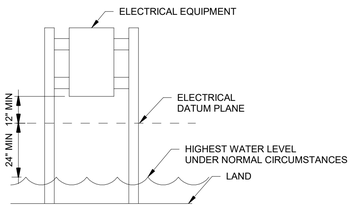
ELECTRICAL NOTES

GENERAL NOTES
- A. WALL AND CEILING CONSTRUCTION DETAILS MAY VARY, COORDINATE OUTLET INSTALLATION REQUIREMENTS AT EACH LOCATION.

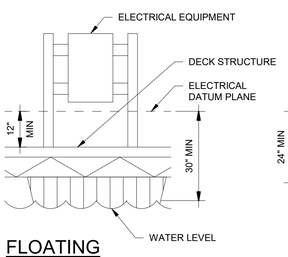
ELECTRICAL NOTES

NUMBERED NOTES
1. 2-1/2" DEEP BOX, THOMAS & BETTS OR EQUAL. VERIFY SCREW HOLES OF COVERPLATE PRIOR TO ORDERING.
2. COORDINATE WITH PLANS AND/OR OWNER FOR QUANTITY AND SIZE OF CONDUITS.
3. RECEPTACLE WALL BOX WITH CONDUIT AS REQUIRED.
4. FINISHED CEILING, COORDINATE WITH ARCHITECTURAL REFLECTIVE CEILING PLAN.
5. WALL STUD.
6. COORDINATE THICKNESS OF WALL COVERING AT EACH BOX LOCATION. EXTEND BOX FROM STUD TO ACCOMMODATE THICKNESS OR USE APPROPRIATE PLASTER RING.
7. COORDINATE POWER, PHONE, DATA, AND TV COVERPLATES WITH OWNER.
8. DUPLEX RECEPTACLES SHALL BE BRYANT OR HUBBEL NO. 56252, OR APPROVED EQUAL, RATED 20 AMP, 125 VOLTS, GROUNDING TYPE AS REQUIRED.
9. CAULK FIRE RATED CEILING AS NEEDED.
10. STUB CONDUIT ABOVE ACCESSIBLE CEILING 4" OR ROUTE CONDUIT TO COMMUNICATION PANEL. COORDINATE WITH ARCHITECT AND OWNER.
11. PULL STRING IN CONDUIT.
12. SCUFF GUARD.

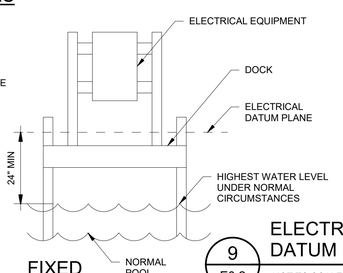
8 / E0.2 — POWER/DATA OUTLET DTL
NOT TO SCALE



LAND NOT SUBJECT TO TIDES



FLOATING



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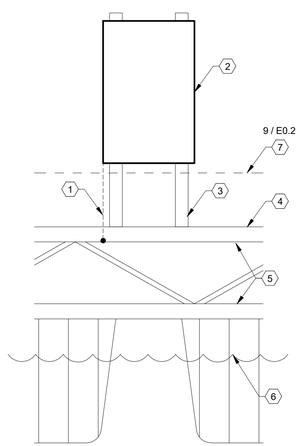
9 / E0.2 — ELECTRICAL DATUM PLANE DTL
NOT TO SCALE



ELECTRICAL NOTES

NUMBERED NOTES
1. BOND METAL DOCK STRUCTURE TO GROUND BUS OF EQUIPMENT.
2. ELECTRICAL EQUIPMENT.
3. SUPPORT STRUCTURE.
4. DECK.
5. DOCK STRUCTURE.
6. WATER LEVEL.
7. ELECTRICAL DATUM PLANE, SEE REFERENCED DETAIL.

10 / E0.2 — EQUIPMENT BONDING DTL
NOT TO SCALE

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD SPICEWOOD, TX

OWNER: TRAVIS CLUB

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Revisions indicated w/ △

Revisions: No.	Date	Description

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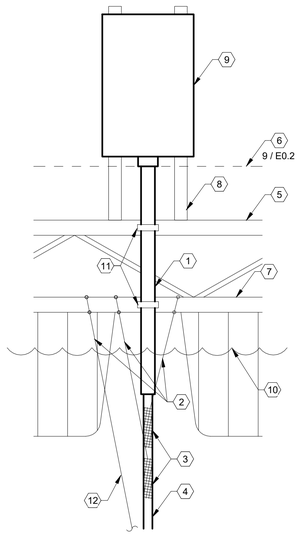
TITLE: ELECTRICAL DETAILS
DATE: 05/30/2024
JOB NO: 24023
DWN BY: CWA

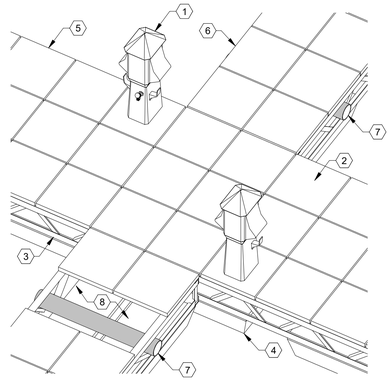
STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER



ELECTRICAL NOTES

NUMBERED NOTES
1 SCHEDULE 80 PVC, SIZE PER CABLE.
2 STAINLESS STEEL CABLE, SECURELY MOUNTED TO DOCK STRUCTURE.
3 STAINLESS STEEL KELLEMS GRIP, MATCH WIRE SIZE.
4 PORTABLE POWER CABLE. INSTALL AWAY FROM OBJECTS THAT CAN CAUSE PHYSICAL DAMAGE, INCLUDING ANCHORAGE CABLES.
5 DECK.
6 ELECTRICAL DATUM PLANE, SEE REFERENCED DETAIL.
7 DOCK STRUCTURE.
8 SUPPORT STRUCTURE.
9 ELECTRICAL EQUIPMENT.
10 WATER LEVEL.
11 TWO-HOLE GALVANIZED STRAP AS REQUIRED.
12 STAINLESS STEEL KELLEMS GRIP LOCATED APPROXIMATELY HALFWAY TO LAKE BOTTOM DURING WINTER POOL.

1 CABLE MOUNTING DTL
E0.3 NOT TO SCALE

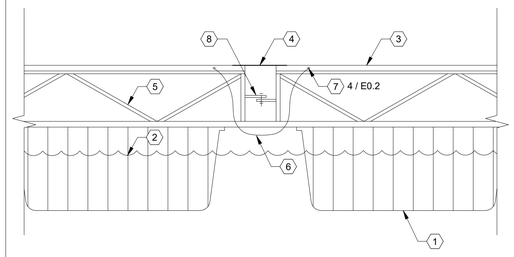


ELECTRICAL NOTES

NUMBERED NOTES
1 SHORE POWER PEDESTAL, TYPICAL.
2 DECK PAVER.
3 UNDERDECK DOCK STRUCTURE.
4 DOCK FLOTATION.
5 DOCK WALKWAY.
6 DOCK FINGER.
7 UNDERDECK 6" PVC CHASE FOR SHORE POWER CABLE TO BE ROUTED UNDERNEATH FINGER. MOUNT AS HIGH AS PRACTICAL IN DOCK STRUCTURE. LOCATE WITHIN 24" OF MAIN WALKWAY UON.
8 DECK PAVER NOT SHOWN FOR COORDINATION PURPOSES ONLY.

GENERAL NOTES
A COORDINATE LOCATION OF CHASE WITH DOCK LAYOUT.

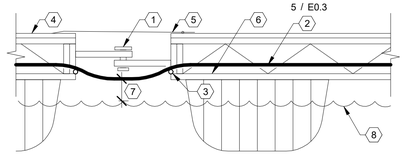
2 SHORE POWER CHASE DTL
E0.3 NOT TO SCALE



ELECTRICAL NOTES

NUMBERED NOTES
1 FLOTATION.
2 WATER LEVEL.
3 DECK.
4 TRANSITION COVER PLATE.
5 DOCK STRUCTURE.
6 BONDING CONDUCTOR #3/0 GREEN INSULATION COPPER CABLE, MSHA ACCEPTED, WET LOCATIONS, RESISTANT TO OILS, ACIDS, ALKALINES, AND ABRASION-RESISTANT, OR 12" OF GREEN TAPE AT EACH END. CONDUCTOR STRAND SHALL BE MINIMUM OF 448/24 STRANDS. ALLOW ENOUGH SLACK IN WIRE FOR FULL DOCK MOVEMENT. INSTALLATION LOCATION SHALL BE SUCH THAT NO DAMAGE WILL OCCUR TO CONDUCTOR DURING DOCK MOVEMENT.
7 BOND TO DOCK STRUCTURE, SEE REFERENCED DETAIL.
8 HINGE OR FIFTH WHEEL.

3 TRANSITION BONDING DTL
E0.3 NOT TO SCALE

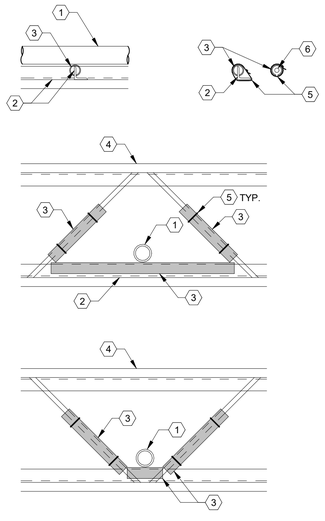


ELECTRICAL NOTES

NUMBERED NOTES
1 DOCK TRANSITION (HINGE POINT/FIFTH-WHEEL/GANGWAY/ETC.)
2 PORTABLE POWER CABLE ROUTED WITHIN DOCK STRUCTURE. SEE REFERENCED PPC SUPPORT DETAIL.
3 3" PVC SPLIT OVER METAL ANGLE IRON LEG. ZIP TIE PVC TO DOCK FRAME TO KEEP IN PLACE.
4 DECK.
5 COVER PLATE.
6 DOCK STRUCTURE.
7 CABLE SHALL MAINTAIN SEPARATION FROM WATER LINE. COORDINATE SLACK TO SATISFY REQUIREMENTS FOR FULL RANGE OF MOVEMENT.
8 WATER LINE.

GENERAL NOTES
A INSTALLATION OF CABLE SHALL BE AS CLOSE TO CENTER OF DOCK (e.g. HINGE POINT) AS PRACTICAL AND SHALL BE INSTALLED SO AS TO NOT ALLOW PHYSICAL DAMAGE.
B ALL TRANSITION LOCATIONS SHALL IMPLEMENT WIRING METHODS AS SHOWN IN THIS DETAIL UNLESS OTHERWISE NOTED ON PLANS.

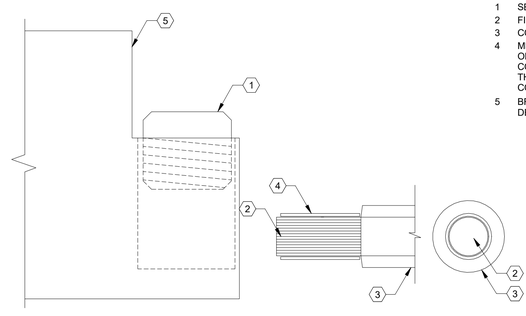
4 PORTABLE POWER CABLE DOCK TRANSITION DTL
E0.3 NOT TO SCALE



ELECTRICAL NOTES

NUMBERED NOTES
1 PORTABLE POWER CABLE SHALL BE INSTALLED WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
2 FLOATING DOCK ANGLE FRAME OR OTHER STRUCTURAL MEMBERS.
3 1" SCHEDULE 40 PVC CUT TO SLIDE OVER DOCK ANGLE FRAME AND/OR STRUCTURAL SUPPORT TO PROTECT PORTABLE POWER CABLE (I.E. TYPE G). OTHER MEANS SHALL BE ACCEPTABLE TO PROTECT THE CABLE FROM BEING DAMAGED BY BEING IN CONTACT WITH METAL COMPONENTS. IF OTHER MEANS ARE PURSUED, SHOP DRAWINGS OF THE INSTALLATION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
4 DECK.
5 STRAP PVC OVER SUPPORT USING UV-RESISTANT ZIP TIES. ORIENT ZIP TIE SO THAT TIE HEAD WILL AVOID POTENTIAL CONTACT WITH THE PORTABLE POWER CABLE, WHICH WOULD CAUSE PHYSICAL DAMAGE TO THE CABLE.
6 REBAR USED AS STRUCTURAL SUPPORT.

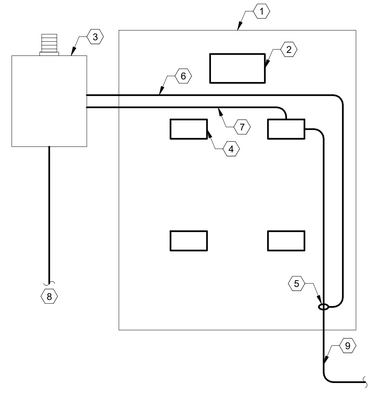
5 POWER CABLE SUPPORT DTL
E0.3 NOT TO SCALE



ELECTRICAL NOTES

NUMBERED NOTES
1 SET SCREW.
2 FINE STRAND CONDUCTOR.
3 CONDUCTOR INSULATION.
4 METAL BARREL OF FERRULE. CRIMPING OF FERRULE IS NOT REQUIRED. COORDINATE FERRULE DIAMETER WITH THE SPECIFIED FINE STRAND CONDUCTOR SIZE.
5 BREAKER OR OTHER TERMINATION DEVICE.

6 FINE STRAND CONDUCTOR TERMINATION DTL
E0.3 NOT TO SCALE

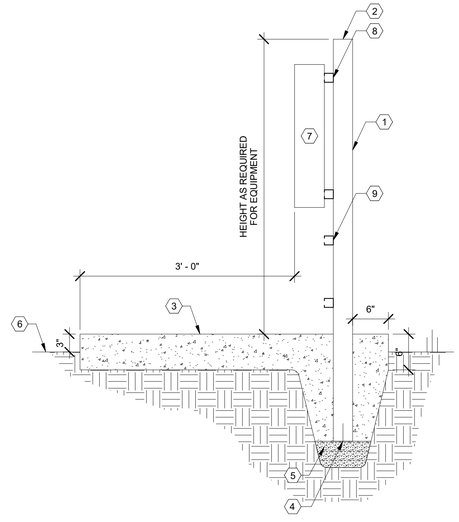


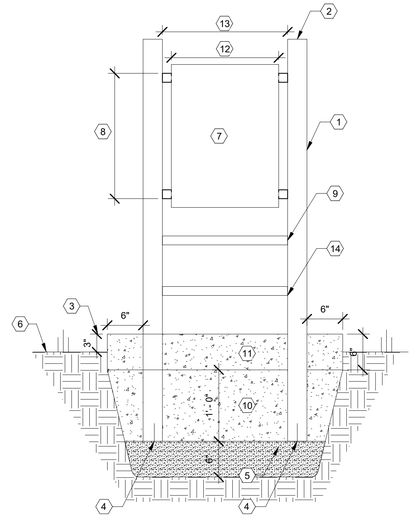
ELECTRICAL NOTES

NUMBERED NOTES
1 ELECTRICAL PANEL.
2 MAIN CIRCUIT BREAKER.
3 GROUND FAULT MONITOR (GFM), COORDINATE WITH MANUFACTURER FOR WIRING AND INSTALLATION REQUIREMENTS. RED BEACON SHALL FLASH UPON ALL CIRCUIT TRIPS DUE TO GROUND FAULT ALARMS.
4 SHUNT TRIP BRANCH BREAKER, TYPICAL. SEE PANEL SCHEDULE FOR SIZE.
5 GFM CURRENT SENSOR, TYPICAL. SIZE PER WIRE AS SHOWN IN PANEL SCHEDULE. HOT AND NEUTRAL CONDUCTORS ROUTED THROUGH CT.
6 CURRENT SENSOR CONTROL WIRE, TYIPCAL.
7 SHUNT TRIP CONTROL WIRE, TYPICAL.
8 120V SOURCE FOR GROUND FAULT MONITOR. SEE PANEL SCHEDULES, ONE-LINE DIAGRAMS, AND RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
9 BRANCH CIRCUIT TO MARINA PEDESTAL, TYPICAL.

GENERAL NOTES
A REFER TO GROUND FAULT MONITOR SCHEDULE.

7 GFM WIRING DTL
E0.3 NOT TO SCALE





ELECTRICAL NOTES

NUMBERED NOTES
1 3-1/4" GALVANIZED SQUARE POST.
2 PLASTIC CAP.
3 EQUIPMENT PAD.
4 OPEN BOTTOM.
5 6" OF GRADE #57 GRAVEL.
6 FINISHED GRADE.
7 ELECTRICAL EQUIPMENT PER PLANS.
8 UNISTRUT FOR EQUIPMENT MOUNTING AS REQUIRED. COORDINATE UNISTRUT SPACING WITH EQUIPMENT MOUNTING HOLES.
9 UNISTRUT FOR CONDUIT SUPPORT INSTALLED WITHIN 12" OF EQUIPMENT.
10 POLE BASE SUPPORT.
11 SLAB.
12 EQUIPMENT WIDTH VARIES.
13 STRUCTURE WIDTH SHALL BE 4" WIDER THAN WIDTH OF EQUIPMENT.
14 IF SPACE BETWEEN FIRST UNISTRUT AND SLAB IS GREATER THAN 36", INSTALL SECOND UNISTRUT EQUIDISTANT.

GENERAL NOTES
A PANEL MOUNTING TO MAINTAIN NEMA 3R LISTING.
B MOUNT PANEL SO THAT HIGHEST BREAKER IS NOT OVER 6'-0" ABOVE FINISHED GRADE.

8 POST MOUNT DTL
E0.3 NOT TO SCALE

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

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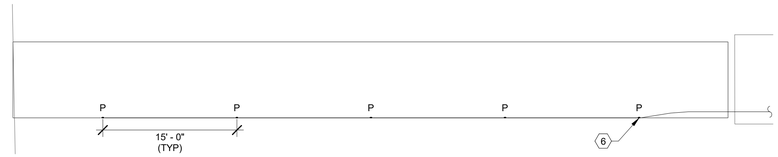
Revisions:
No. Date Description

SHEET: E0.3
TITLE: ELECTRICAL DETAILS
DATE: 05/30/2024
JOB NO: 24023
DWN BY: CWA

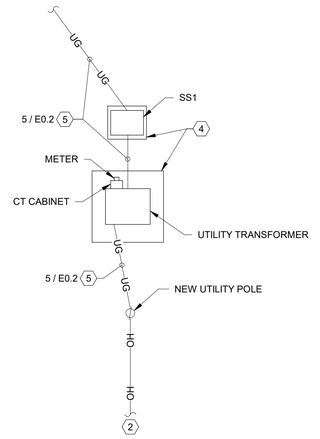
STATE OF TEXAS
GARY DALE LOFTIS
136175
05/30/2024
LICENSED PROFESSIONAL ENGINEER



3 E1.0 ELECTRICAL PLAN - GANGWAY

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 4' 8' 16' 32'



2 E1.0 ENLARGED ELECTRICAL SITE PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 4' 8' 16' 32'

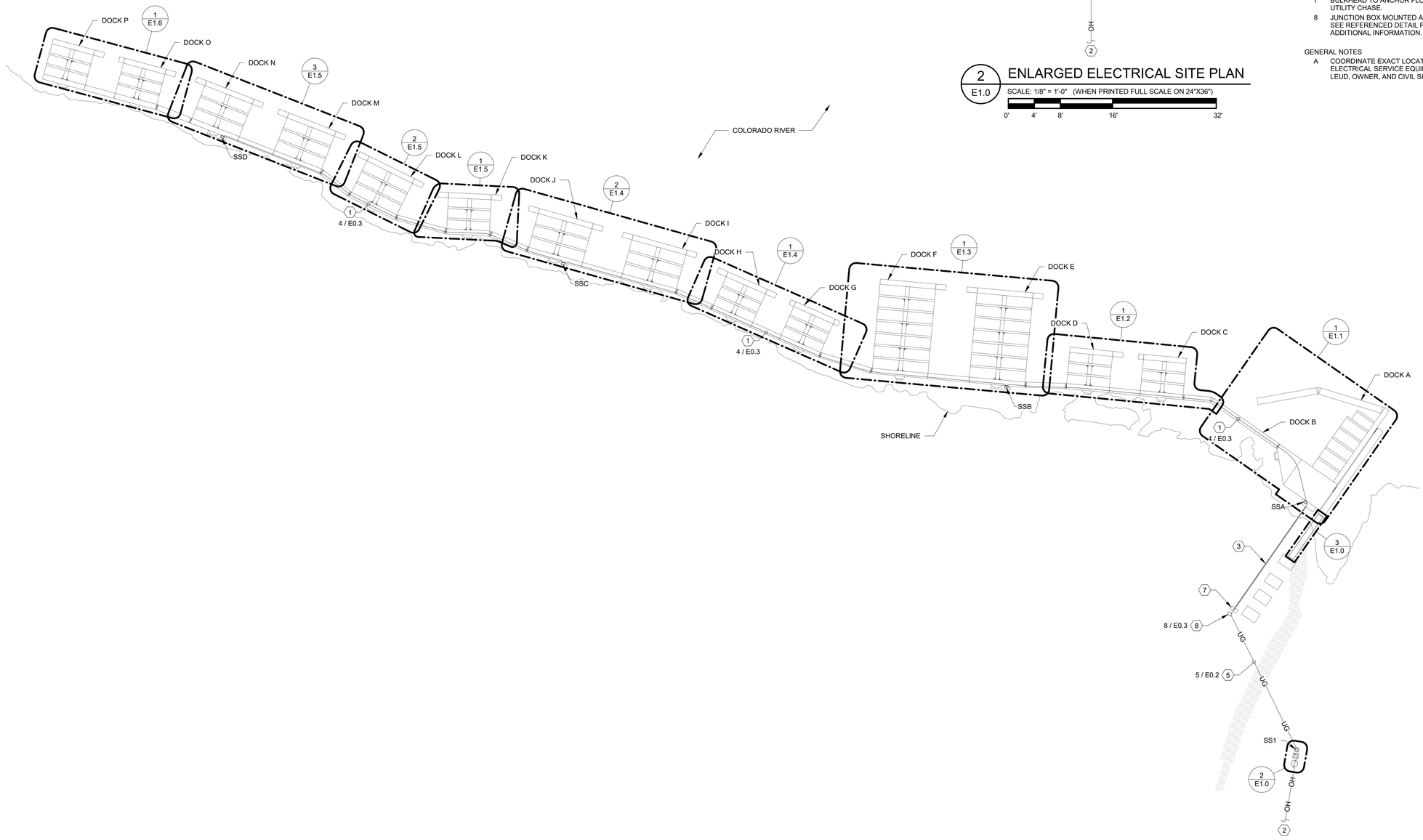
ELECTRICAL NOTES

NUMBERED NOTES

1. PPC ROUTED THROUGH DOCK STRUCTURE. SEE RISER DIAGRAM, PANEL SCHEDULES, AND REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
2. NEW 3Φ OVERHEAD PRIMARY. COORDINATE WITH LEUD.
3. FLOATING UTILITY CHASE. COORDINATE WITH PLUMBING UTILITIES. DESIGN OF UTILITY CHASE AND COORDINATION WITH DOCK AND EXISTING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE DOCK MANUFACTURER.
4. NEW CONCRETE PADS FOR UTILITY TRANSFORMER AND SERVICE EQUIPMENT. COORDINATE SIZE AND REQUIREMENTS WITH ELECTRICAL EQUIPMENT AND LEUD.
5. UNDERGROUND CONDUCTORS. SEE REFERENCED DITCH DETAIL FOR ADDITIONAL INFORMATION.
6. TYPICAL, 120V STEPLIGHT MOUNTED WITHIN SINGLE GANG BOX. COORDINATE MOUNTING WITH GANGWAY STRUCTURE.
7. BULKHEAD TO ANCHOR FLOATING UTILITY CHASE.
8. JUNCTION BOX MOUNTED ABOVE EDP. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ELECTRICAL SERVICE EQUIPMENT WITH LEUD, OWNER, AND CIVIL SITE PLANS.



1 E1.0 ELECTRICAL SITE PLAN

SCALE: 1" = 80'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 40' 80' 160' 320'

NORTH

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

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Revisions: No.	Date	Description

SHEET:	TITLE:	JOB NO:	DATE:
E1.0	ELECTRICAL SITE PLAN	24023	05/30/2024

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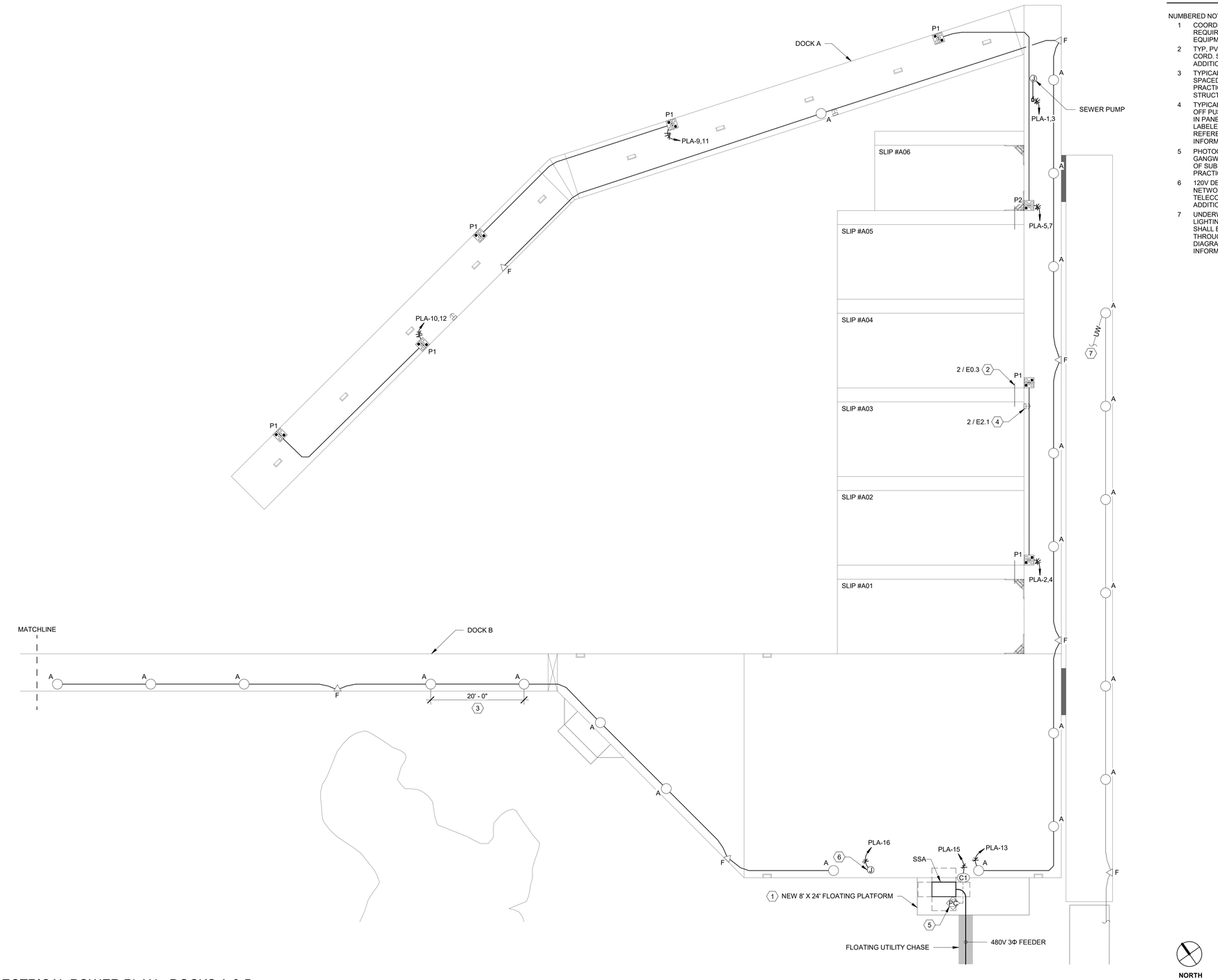
STATE OF TEXAS
GARY DALE LOFTIS
136175
LICENSED PROFESSIONAL ENGINEER
05/30/2024



ELECTRICAL NOTES

NUMBERED NOTES

1. COORDINATE FLOTATION REQUIREMENTS WITH ELECTRICAL EQUIPMENT.
2. TYP. PVC CHASE FOR SHORE POWER CORD. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
3. TYPICAL, LIGHT BOLLARDS SHALL BE SPACED ON 20'-0" CENTERS AS PRACTICAL. COORDINATE WITH DOCK STRUCTURE.
4. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLA. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
5. PHOTOCELL FOR CONTROL OF GANGWAY LIGHTING MOUNTED TO TOP OF SUBSTATION ENCLOSURE AS PRACTICAL.
6. 120V DEDICATED CIRCUIT FOR NETWORKING CABINET. SEE TELECOMMUNICATIONS SHEETS FOR ADDITIONAL INFORMATION.
7. UNDERWATER CABLE FOR GANGWAY LIGHTING BRANCH CIRCUIT. CABLE SHALL BE ROUTED TO PANEL PLA THROUGH CONTACTOR C1. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.

1 / E1.1 ELECTRICAL POWER PLAN - DOCKS A & B

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

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COOKEVILLE, TN 38501
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Revisions: No.	Date	Description

SHEET: E1.1

TITLE: ELECTRICAL POWER PLAN DOCKS A & B

JOB NO: 24023 DATE: 05/30/2024

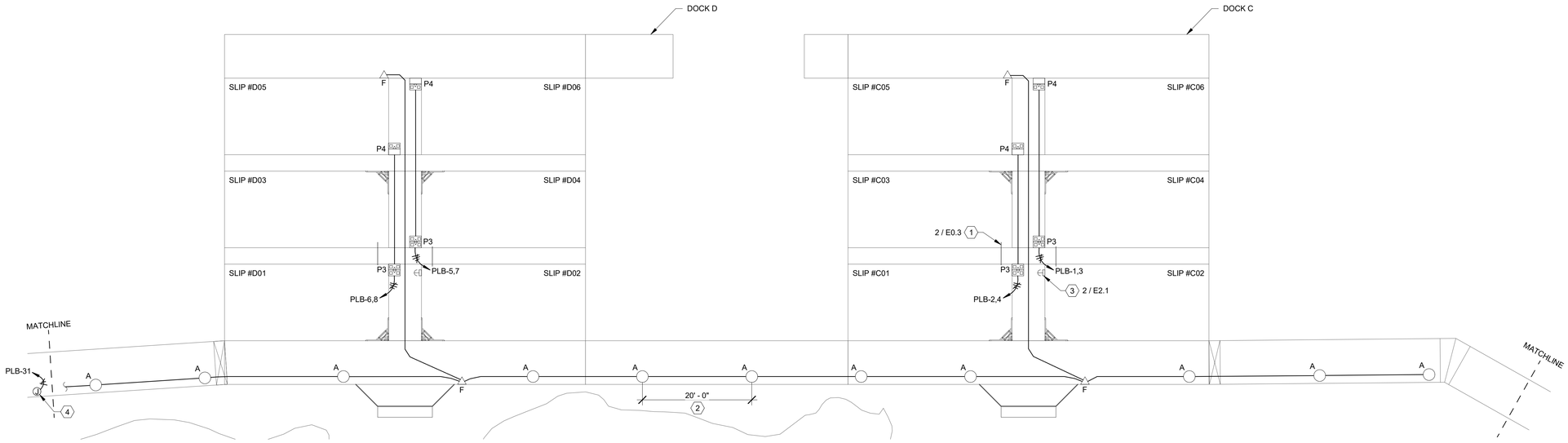
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
136175
05/30/2024
LICENSED PROFESSIONAL ENGINEER

ELECTRICAL NOTES

NUMBERED NOTES

1. TYP. PVC CHASE FOR SHORE POWER CORD. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
2. TYPICAL, LIGHT BOLLARDS SHALL BE SPACED ON 20'-0" CENTERS AS PRACTICAL. COORDINATE WITH DOCK STRUCTURE.
3. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLB. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
4. 120V DEDICATED CIRCUIT FOR NETWORKING CABINET. SEE TELECOMMUNICATIONS SHEETS FOR ADDITIONAL INFORMATION.



1 E1.2 ELECTRICAL POWER PLAN - DOCKS C & D

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
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SPICEWOOD, TX

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No.	Date	Description

SHEET: E1.2

TITLE: ELECTRICAL POWER PLAN DOCKS C & D

DATE: 05/30/2024

JOB NO: 24023

DWN BY: CWA

STATE OF TEXAS
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05/30/2024
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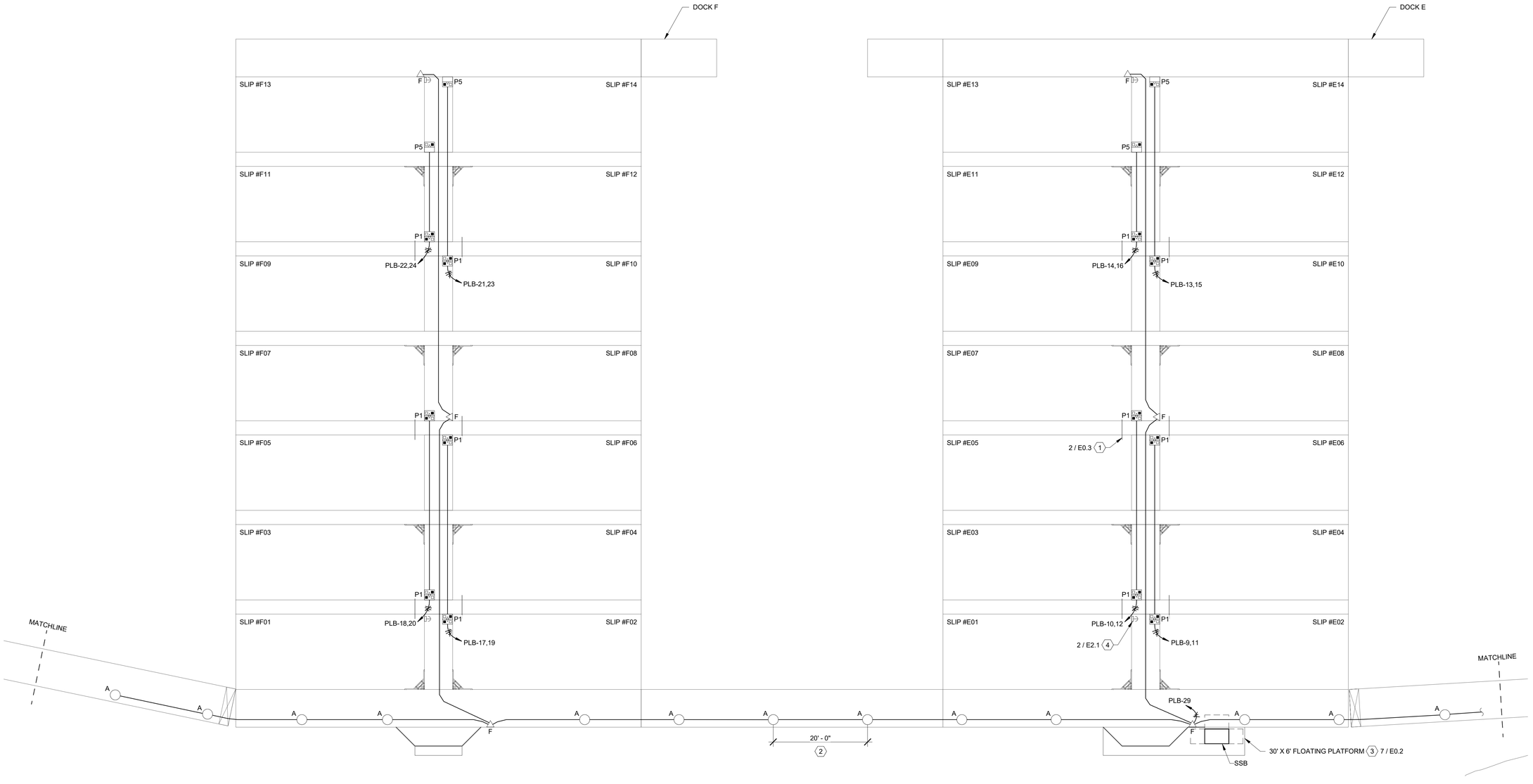
ELECTRICAL NOTES

NUMBERED NOTES

1. TYP. PVC CHASE FOR SHORE POWER CORD. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
2. TYPICAL, LIGHT BOLLARDS SHALL BE SPACED ON 20'-0" CENTERS AS PRACTICAL. COORDINATE WITH DOCK STRUCTURE.
3. COORDINATE FLOTATION REQUIREMENTS WITH ELECTRICAL EQUIPMENT. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
4. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.



1 / E1.3 DOCKS E & F ELECTRICAL PLAN

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH

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Revisions: No.	Date	Description

SHEET: E1.3

TITLE: ELECTRICAL POWER PLAN DOCKS E & F

DATE: 05/30/2024

JOB NO. 24023

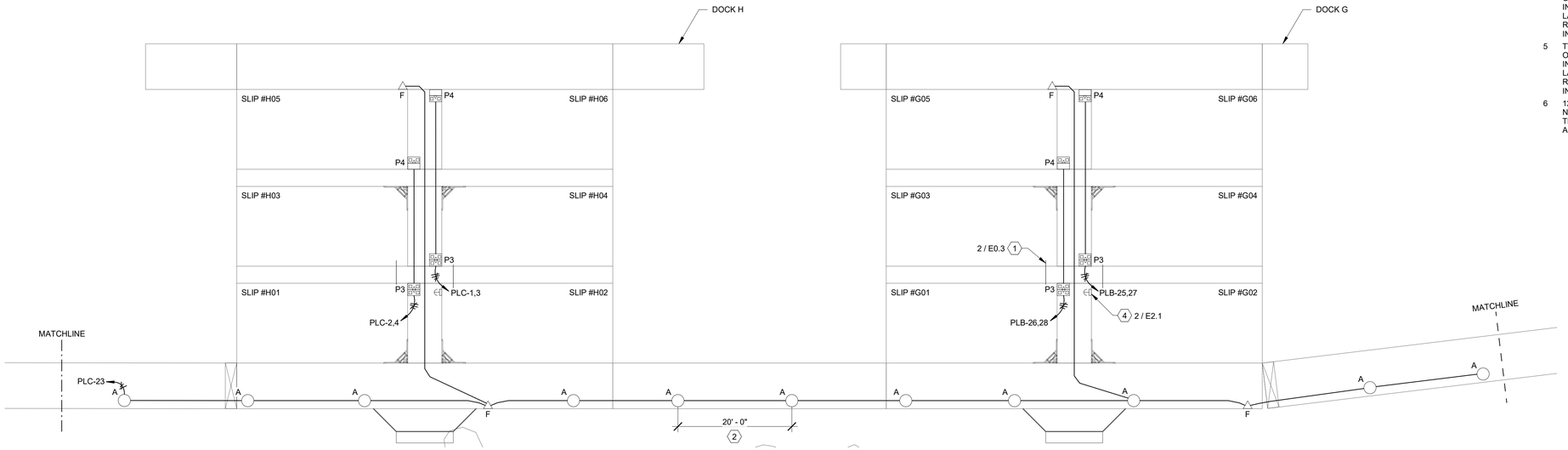
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
136175
05/30/2024
LICENSED PROFESSIONAL ENGINEER

ELECTRICAL NOTES

NUMBERED NOTES

1. TYP. PVC CHASE FOR SHORE POWER CORD. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
2. TYPICAL, LIGHT BOLLARDS SHALL BE SPACED ON 20'-0" CENTERS AS PRACTICAL. COORDINATE WITH DOCK STRUCTURE.
3. COORDINATE FLOTATION REQUIREMENTS WITH ELECTRICAL EQUIPMENT. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
4. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLB. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
5. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLC. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
6. 120V DEDICATED CIRCUIT FOR NETWORKING CABINET. SEE TELECOMMUNICATIONS SHEETS FOR ADDITIONAL INFORMATION.

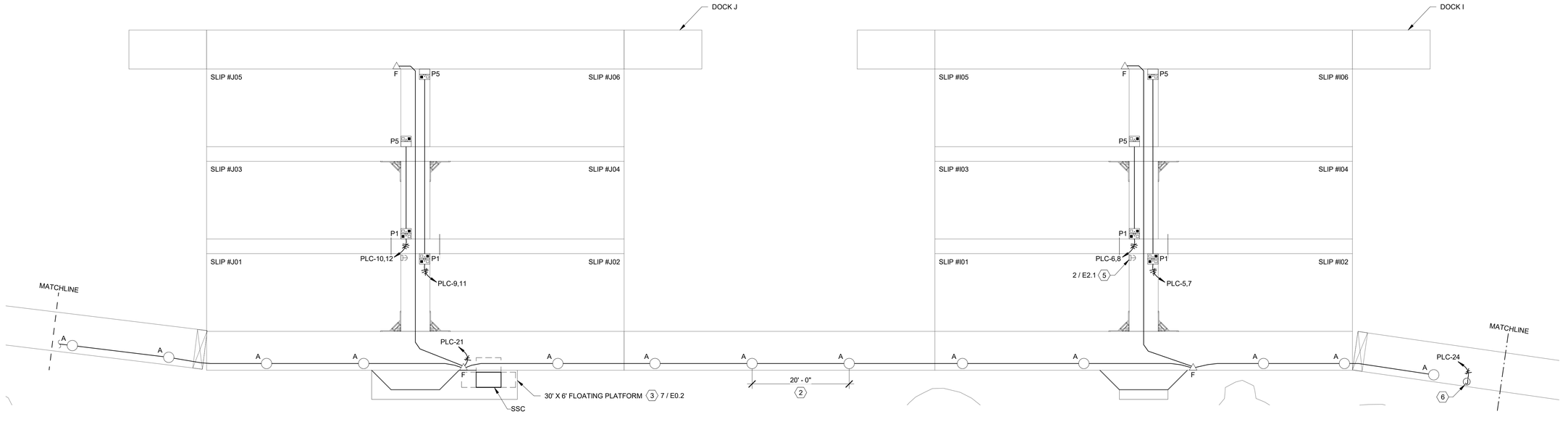


1 E1.4 ELECTRICAL POWER PLANS - DOCKS G & H

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH



2 E1.4 ELECTRICAL POWER PLAN - DOCKS I & J

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH

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Revisions: No.	Date	Description

SHEET: E1.4

TITLE: ELECTRICAL POWER PLAN DOCKS G, H, I, & J

JOB NO: 24023 DATE: 05/30/2024

DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
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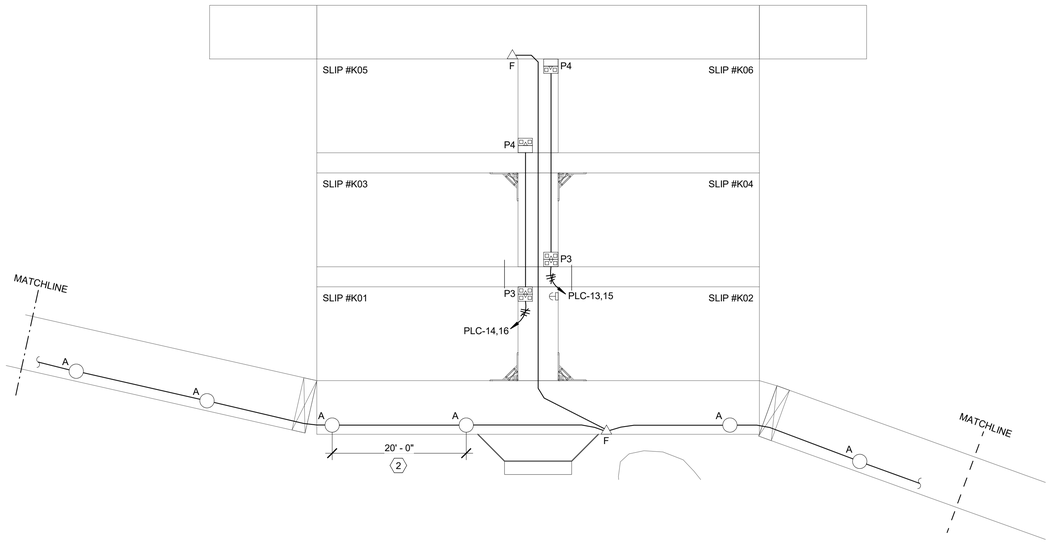
05/30/2024
LICENSED PROFESSIONAL ENGINEER

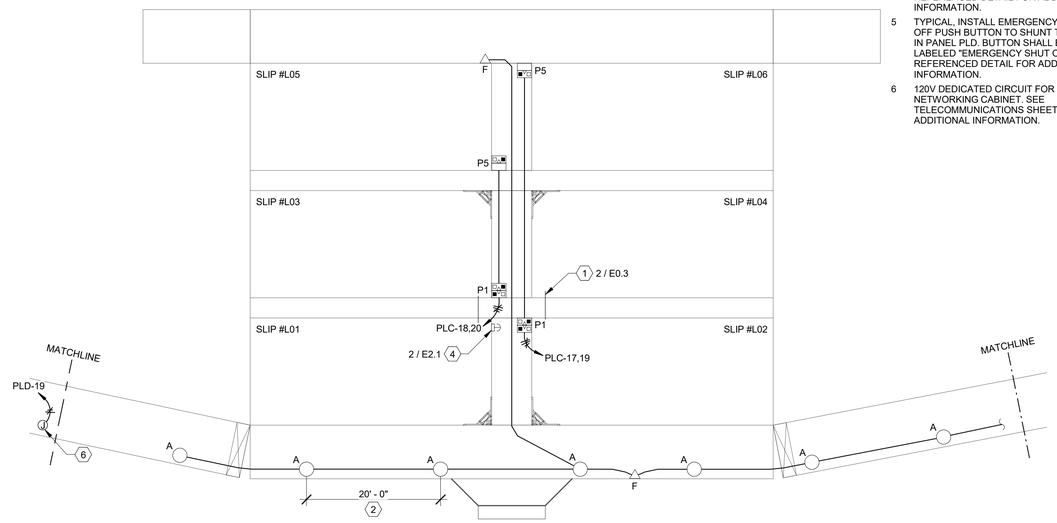


1 ELECTRICAL POWER PLAN - DOCK K
E1.5

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH

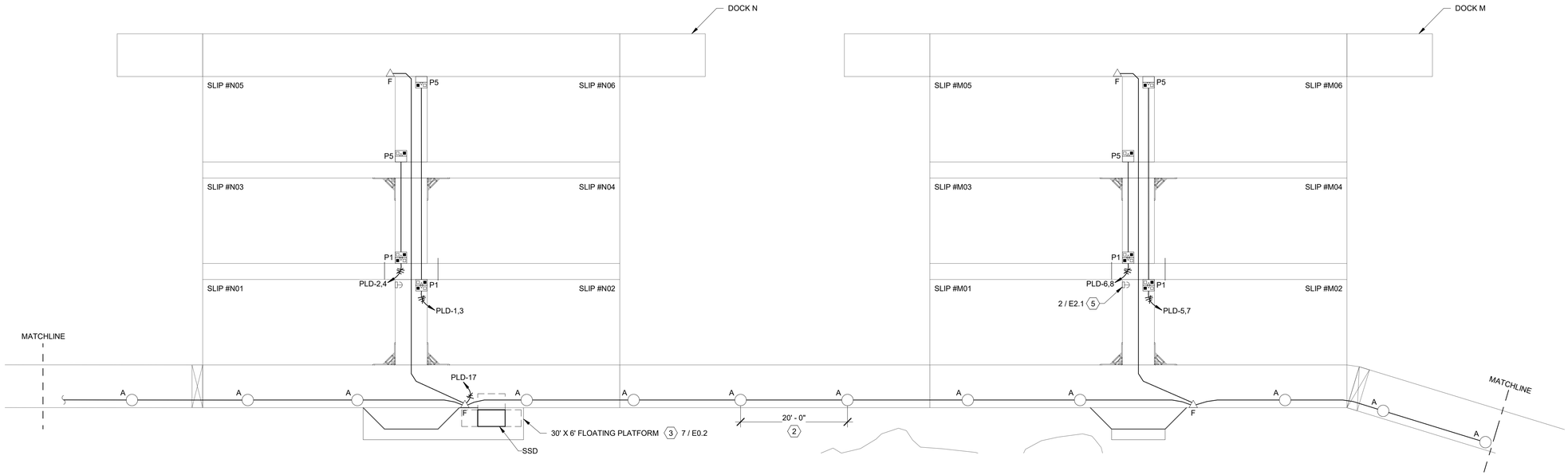


2 ELECTRICAL POWER PLAN - DOCK L
E1.5

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH



3 ELECTRICAL POWER PLAN - DOCK M & N
E1.5

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH

ELECTRICAL NOTES

NUMBERED NOTES

1. TYP. PVC CHASE FOR SHORE POWER CORD. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
2. TYPICAL, LIGHT BOLLARDS SHALL BE SPACED ON 20'-0" CENTERS AS PRACTICAL. COORDINATE WITH DOCK STRUCTURE.
3. COORDINATE FLOTATION REQUIREMENTS WITH ELECTRICAL EQUIPMENT. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
4. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLC. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
5. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLD. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF." SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
6. 120V DEDICATED CIRCUIT FOR NETWORKING CABINET. SEE TELECOMMUNICATIONS SHEETS FOR ADDITIONAL INFORMATION.

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TEL: (931) 526-5143
www.maffett-loftis.com

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Revisions:

No.	Date	Description

SHEET: E1.5

TITLE: ELECTRICAL POWER PLANS DOCKS K, L, M, & N

DATE: 05/30/2024

JOB NO: 24023

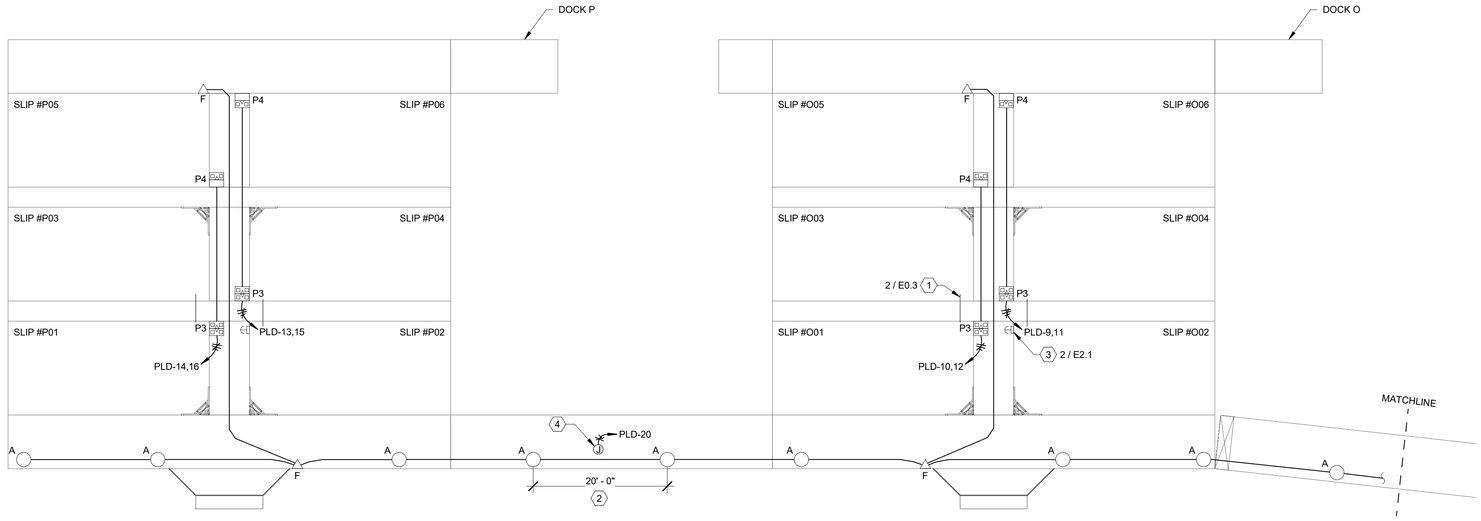
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
136175
LICENSED PROFESSIONAL ENGINEER
05/30/2024

ELECTRICAL NOTES

NUMBERED NOTES

1. TYP. PVC CHASE FOR SHORE POWER CORD. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
2. TYPICAL, LIGHT BOLLARDS SHALL BE SPACED ON 20'-0" CENTERS AS PRACTICAL. COORDINATE WITH DOCK STRUCTURE.
3. TYPICAL, INSTALL EMERGENCY SHUT OFF PUSH BUTTON TO SHUNT TRIP MCB IN PANEL PLD. BUTTON SHALL BE LABELED "EMERGENCY SHUT OFF " SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
4. 120V DEDICATED CIRCUIT FOR NETWORKING CABINET. SEE TELECOMMUNICATIONS SHEETS FOR ADDITIONAL INFORMATION.



1 / E1.6 ELECTRICAL POWER PLAN - DOCKS O & P

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

NORTH

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:
TRAVIS CLUB

ENGINEER:
MAFFETT LOFTIS ENGINEERING, LLC
1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions:		
No.	Date	Description

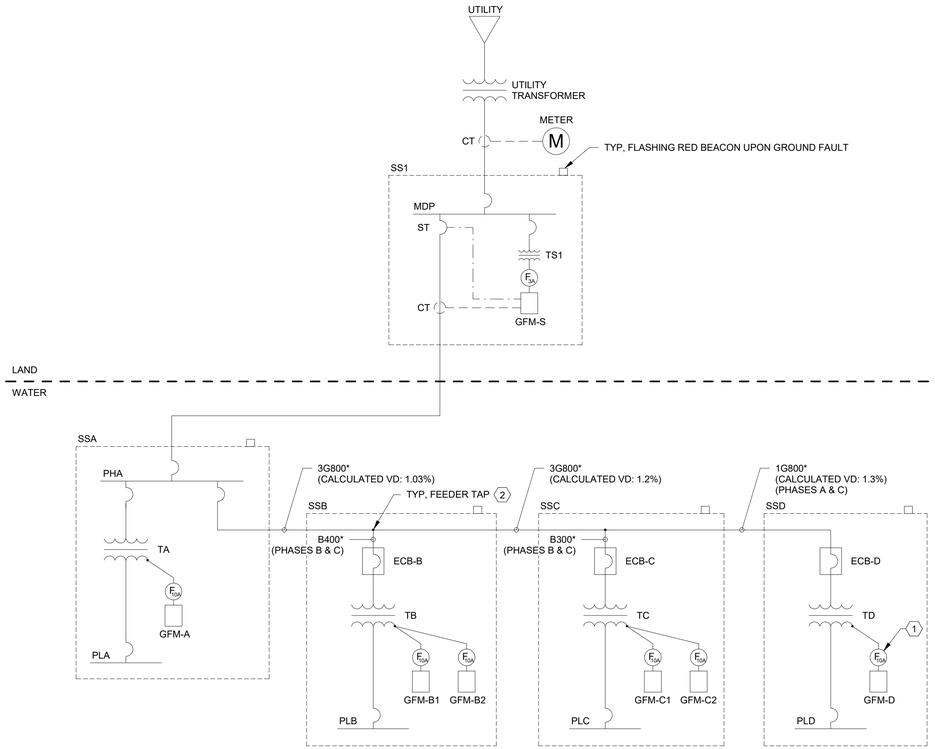
SHEET: E1.6

TITLE: ELECTRICAL POWER PLAN
DOCKS O & P

JOB NO: 24023 DATE: 05/30/2024

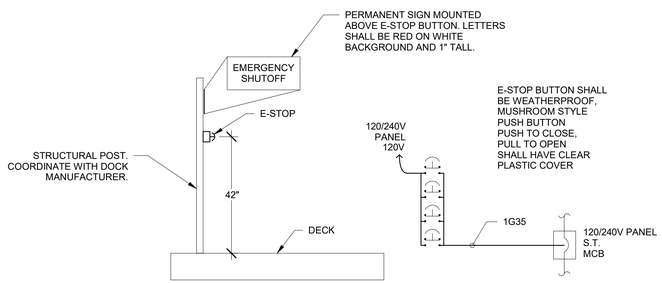
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED
PROFESSIONAL ENGINEER



1 E2.1 ELECTRICAL ONE-LINE DIAGRAM

NOT TO SCALE



2 E2.1 TYPICAL EMERGENCY SHUT OFF DIAGRAM

NOT TO SCALE

(#) ELECTRICAL NOTES

NUMBERED NOTES

1 TYP, DIN RAIL MOUNTED TIME-DELAY FUSE MOUNTED INSIDE SUBSTATION ENCLOSURE.

2 INSTALL PROVISIONS FOR A 3Φ TAP OF THE INCOMING FEEDER. TAPS OR SPLICES SHALL NOT BE LOCATED BELOW THE EDP.

MARINA GROUND FAULT PERFORMANCE TESTING NOTES

PER THE CONTRACT WITH THE CLIENT, THE ENGINEER'S SCOPE FOR THIS PROJECT INCLUDES THE ENGINEER AND/OR ENGINEER'S TEAM COMPLETING GROUND FAULT DEVICE PERFORMANCE TESTING. THE PERFORMANCE TESTING EFFORTS INCLUDE ONE SITE VISIT AT THE END OF THE CONSTRUCTION ADMINISTRATION PHASE TO TEST THE PROPER FUNCTION OF ALL FEEDER, BRANCH CIRCUIT, AND SHORE POWER RECEPTACLE GROUND FAULT DEVICES. THIS VISIT IS REQUIRED AND SHALL OCCUR AFTER SUBSTANTIAL COMPLETION OF THE CONSTRUCTION. THE SCHEDULE OF THIS VISIT SHALL BE COORDINATED WITH THE ENGINEER, THE CLIENT, AND THE CONTRACTOR.

THE PERFORMANCE TESTING PROCESS SHALL CONSIST OF THE FOLLOWING:

- VERIFY PARAMETERS OF GROUND FAULT MONITORING DEVICES ARE SET TO THE SPECIFIED VALUES PROVIDED IN THE DESIGN PLANS AND SCHEDULES.
- TEST GFCI DEVICES TO VERIFY THEY MEET THE DESIGN SPECIFICATIONS AND UL943 REQUIREMENTS.
- TEST GFPE DEVICES PROTECTING SHORE POWER RECEPTACLES, BRANCH CIRCUITS, AND FEEDERS BY SAFELY INJECTING LEAKAGE CURRENT TO VERIFY THEY MEET THE DESIGN SPECIFICATIONS AND UL1053 REQUIREMENTS.
- TEST TRIP TIMES OF GFCI AND GFPE DEVICES.
- ADJUST PARAMETERS AS REQUIRED FOR GFPE DEVICES IN ORDER TO VERIFY FULL COORDINATION.

IT IS RECOMMENDED FOR THE ELECTRICAL CONTRACTOR TO CHECK ALL WIRING METHODS AND THE INSTALLATION OF THE GFPE SYSTEM'S CT'S AND SHUNT-TRIP BREAKERS, AND TO ALSO PRE-TEST ALL GFPE DEVICES BEFORE THE ENGINEER TRAVELS TO THE SITE TO PERFORM THE PERFORMANCE TESTING EFFORTS. IF DEFICIENCIES ARE FOUND IN THE ELECTRICAL AND/OR GFPE SYSTEMS THAT CANNOT BE REMEDIED WITHIN A REASONABLE TIME OF THE SAME SITE VISIT, ADDITIONAL SITE VISITS SHALL BE REQUIRED AT THE EXPENSE OF THE CONTRACTOR. THE ADDITIONAL SITE VISIT SHALL BE QUOTED TO THE CONTRACTOR BASED ON THE EXPECTED EFFORTS TO RETEST THE DEFICIENCIES AND TRAVEL COST.

THE CONTRACTOR SHALL ASSIST THE ENGINEER FOR THE ENTIRE DURATION OF THE PERFORMANCE TESTING BY PROVIDING EXPERIENCED STAFF THAT INSTALLED AND HAS KNOWLEDGE OF THE ELECTRICAL SYSTEMS OF THE PROJECT. THIS ASSISTANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, THE OPENING AND CLOSING OF ELECTRICAL EQUIPMENT AND SHORE POWER PEDESTALS. TROUBLESHOOTING AND REPAIRING OF DEFICIENCIES SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

A DETAILED PERFORMANCE TESTING REPORT BY THE ENGINEER SHALL BE GENERATED DESCRIBING THE FINDINGS OF THE TESTS. PERFORMANCE TESTING SHALL NOT GUARANTEE THE SAFETY OR CODE COMPLIANCE OF THE SYSTEM BUT WILL HELP MITIGATE OPERATIONAL AND SAFETY ISSUES.

GROUND FAULT MONITOR SCHEDULE

- ALL PARAMETERS SHALL BE PROGRAMMED PER THE DESIGN
- SEE CIRCUIT SCHEDULES FOR TRIP SETTINGS
- CT SENSORS SHALL BE SOLID CORE, AND THE CIRCULAR OPENING SHALL BE COORDINATED WITH THE SPECIFIED CONDUCTOR SIZE
- SHUNT TRIP OUTPUT CONTROL SHALL BE 120VAC
- EXTERNAL STROBE LIGHT TO FLASH UPON A GROUND FAULT ALARM
- SHALL BE UL 1053-LISTED
- TIME AND DATE SHALL BE SET FOR THE PROJECT LOCATION TIME ZONE
- SPARE CHANNELS SHALL BE DISABLED
- SHALL HAVE LOCKABLE DOOR
- USE SPECIFIED EQUIPMENT WITH NO SUBSTITUTIONS
- SEE GROUND FAULT MONITOR WIRING DETAIL

LABEL	MANUFACTURER	MODEL	INPUTS / OUTPUTS	ENCLOSURE	NOTES
GFM-A	BENDER	RCMS490	12	SSA	LISTED ASSEMBLY
GFM-B1	BENDER	RCMS490	12	SSB	LISTED ASSEMBLY
GFM-B2	BENDER	RCMS490	12	SSB	LISTED ASSEMBLY
GFM-C1	BENDER	RCMS490	12	SSC	LISTED ASSEMBLY
GFM-C2	BENDER	RCMS490	12	SSC	LISTED ASSEMBLY
GFM-D	BENDER	RCMS490	12	SSD	LISTED ASSEMBLY
GFM-S	BENDER	RCM420	1	SS1	LISTED ASSEMBLY

ENCLOSED CIRCUIT BREAKER SCHEDULE

- USE SPECIFIED EQUIPMENT OR APPROVED EQUAL
- LOCKABLE DOOR

LABEL	FRAME RATING	TRIP RATING	ENCLOSURE	VOLTS	Φ	POLES	NOTES
ECB-B	400 A	400 A	SSB	480 V	1	2	
ECB-C	400 A	300 A	SSC	480 V	1	2	
ECB-D	400 A	300 A	SSD	480 V	1	2	

TRANSFORMER SCHEDULE

- USE SPECIFIED EQUIPMENT OR APPROVED EQUAL

LABEL	LOCATION	MANUFACTURER	MODEL	MIN. KVA	ENCLOSURE	TYPE	2-LUG	PRIMARY VOLTS	PRIMARY Φ	PRIMARY WINDING	SECONDARY VOLTS	SECONDARY Φ	SECONDARY WINDING
TA	DOCK A	HAMMOND	LOW-dB	200	SSA	DRY	Y	480	1	1	120/240	1	CTR TAP
TB	DOCK E	HAMMOND	LOW-dB	200	SSB	DRY	Y	480	1	1	120/240	1	CTR TAP
TC	DOCK J	HAMMOND	LOW-dB	167	SSC	DRY	Y	480	1	1	120/240	1	CTR TAP
TD	DOCK N	HAMMOND	LOW-dB	167	SSD	DRY	Y	480	1	1	120/240	1	CTR TAP
TS1	UPLAND	SQUARE-D	1.5S1F	1	SS1	DRY	N	277	1	1	120	1	1

SUB-STATION SCHEDULE

- NEMA 3R, ALUMINUM, WHITE
- USE AMERICAN MIDWEST POWER OR APPROVED EQUAL
- SEE ONE-LINE & SCHEDULES

SS1	
PANEL	MDP
TRANSFORMER	TS1
GFM	GFM-S
SSA	
PANEL	PHA
TRANSFORMER	TA
PANEL	PLA
GFM	GFM-A
SSB	
ENCLOSED CIRCUIT BREAKER	ECB-B
TRANSFORMER	TB
PANEL	PLB
GFM	GFM-B1
GFM	GFM-B2
SSC	
ENCLOSED CIRCUIT BREAKER	ECB-C
TRANSFORMER	TC
PANEL	PLC
GFM	GFM-C1
GFM	GFM-C2
SSD	
ENCLOSED CIRCUIT BREAKER	ECB-D
TRANSFORMER	TD
PANEL	PLD
GFM	GFM-D

SURGE PROTECTION DEVICE SCHEDULE

LABEL	MODEL	PART #	AMP RATING
SPD-1	SQUARE-D	HL4IMA24C	240,000

NOTES:
1. USE SPECIFIED DEVICE, SIEMENS, OR INNOVATIVE TECHNOLOGIES
2. INSTALL PER MANUFACTURER'S REQUIREMENTS AND SPD DETAIL

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER: TRAVIS CLUB

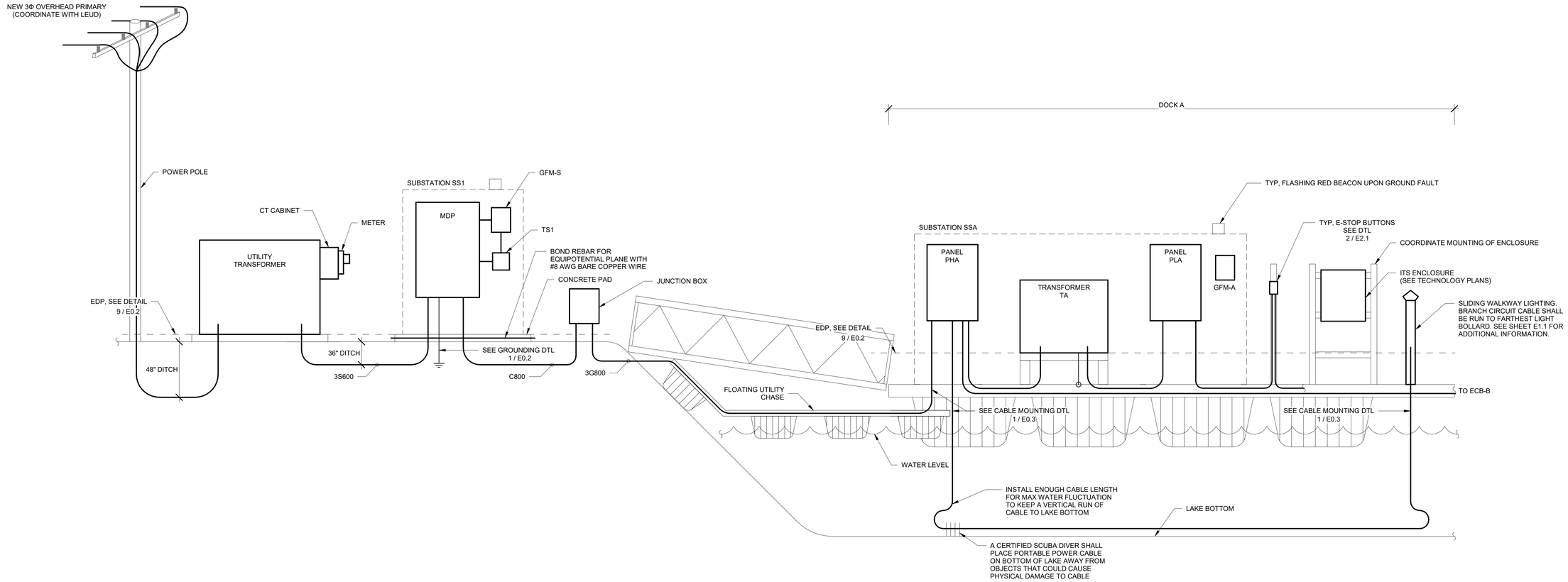
ENGINEER: MAFFETT LOFTIS ENGINEERING, LLC
(S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions: Revisions indicated w/ △

No.	Date	Description

SHEET: E2.1
TITLE: ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES
DATE: 05/30/2024
JOB NO: 24023
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
136175
05/30/2024
LICENSED PROFESSIONAL ENGINEER



1 E3.1 ELECTRICAL RISER DIAGRAM

NOT TO SCALE

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
15 JEFFERSON AVE, STE 101
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TEL: (931) 526-5143
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Revisions indicated w/ △

Revisions:		
No.	Date	Description

SHEET: E3.1

TITLE: ELECTRICAL RISER DIAGRAM

JOB NO: 24023

DATE: 05/30/2024

DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

BRANCH PANEL: MDP

LOCATION: UPLAND
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: SS1

MANUFACTURER: SQUARE D
MODEL: I-LINE
PANEL NOTES: SER
VOLTS: 277/480 3Φ,4-WIRE

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A		B		C		CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
					1	372.0	0.1					2	TS1		A20	1	20 A
600 A	3	C800*	3	PHA	3			454.6	--			4	- SPACE -			1	--
					5					391.7	--	6	- SPACE -			1	--
--	1			- SPACE -	7	--	--					8	- SPACE -			1	--
--	1			- SPACE -	9			--	--			10	- SPACE -			1	--
--	1			- SPACE -	11					--	0.0	12					
--	1			- SPACE -	13	--	0.0					14	SPD-1		C30	3	30 A
--	1			- SPACE -	15			--	0.0			16					
				TOTAL LOAD:		372.1 kVA		454.6 kVA		391.7 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Other	0.0 kVA	0.00%	0.0 kVA		
Continuous	2.0 kVA	125.00%	2.4 kVA	**TOTAL CONN. LOAD (kVA):**	1218.3 kVA
Non-Continuous	9.8 kVA	100.00%	9.8 kVA	**TOTAL EST. DEMAND (kVA):**	347.8 kVA
Metered Shore Power	1185.6 kVA	27.00%	320.1 kVA	**TOTAL CONN.:**	1465 A
Maint. Recpt.	20.9 kVA	73.95%	15.4 kVA	**TOTAL EST. DEMAND:**	418 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1,3,5	PHA	1.46%	90-100	1000
2	TS1	0.01%	--	--

BRANCH PANEL: PHA

LOCATION: DOCK A
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: SSA

MANUFACTURER: SQUARE D
MODEL: I-LINE
PANEL NOTES:
VOLTS: 480 3Φ,3-WIRE

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A		B		C		CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
300 A	2	B300*		TA	1	100.2	271.8					2					
					3			100.1	354.5			4	ECB-B, ECB-C, & ECB-D	3	3G800*	3	400 A
--	1			- SPACE -	5					--	391.7	6					
--	1			- SPACE -	7	--	--					8	- SPACE -			1	--
--	1			- SPACE -	9			--	--			10	- SPACE -			1	--
--	1			- SPACE -	11					--	--	12	- SPACE -			1	--
--	1			- SPACE -	13	--	--					14	- SPACE -			1	--
--	1			- SPACE -	15			--	--			16	- SPACE -			1	--
				TOTAL LOAD:		372.0 kVA		454.6 kVA		391.7 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Other	0.0 kVA	0.00%	0.0 kVA		
Continuous	2.0 kVA	125.00%	2.4 kVA	**TOTAL CONN. LOAD (kVA):**	1218.3 kVA
Non-Continuous	9.8 kVA	100.00%	9.8 kVA	**TOTAL EST. DEMAND (kVA):**	347.8 kVA
Metered Shore Power	1185.6 kVA	27.00%	320.1 kVA	**TOTAL CONN.:**	1465 A
Maint. Recpt.	20.9 kVA	73.95%	15.4 kVA	**TOTAL EST. DEMAND:**	418 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

PANEL NOTES:
A. INSTALL PERMANENT LABEL ON THE DOOR OF THE ENCLOSURE STATING "480V LOADS ONLY, 277V LOADS NOT PERMITTED."

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	GFPE TRIP (mA)	GFPE TIME (ms)
1,3	TA	--	--
2,4,6	ECB-B, ECB-C, & ECB-D	90-100	600

BRANCH PANEL: PLA

LOCATION: DOCK A
SUPPLY FROM: TA
MOUNTING: SURFACE
ENCLOSURE: SSA

MANUFACTURER: SQUARE D
MODEL: I-LINE
PANEL NOTES:
VOLTS: 120/240 1Φ,3-WIRE

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB (SHUNT TRIP) SEE NOTE: B
MAINS RATING: 800 A
MCB RATING: 800 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A		B		CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	2	1G35	3	P-1	1	2.0	24.4			2					
					3			2.0	24.4	4	METERED SHORE POWER	3	1G175	2	200 A
150 A	2	1G175	3	METERED SHORE POWER	5	22.0	1.4			6					
					7			22.0	1.4	8	P-2	3	1G35	2	20 A
200 A	2	1G300	3	METERED SHORE POWER	9	24.4	24.4			10					
					11			24.4	24.4	12	METERED SHORE POWER	3	1G300	2	200 A
20 A	1	1G35	3	WALKWAY LIGHTING	13	0.2	0.0			14	E-STOP	3,B	1G35	1	20 A
20 A	1	1G60	3	GANGWAY LIGHTING	15			0.1	0.0	16	NETWORK CABINET	3	1G35	1	20 A
--	1			- SPACE -	17	--	1.4			18	P-3	3	1G35	2	20 A
--	1			- SPACE -	19			--	1.4	20					
--	1			- SPACE -	21	--	--			22	- SPACE -			1	--
--	1			- SPACE -	23			--	--	24	- SPACE -			1	--
--	1			- SPACE -	25	--	--			26	- SPACE -			1	--
--	1			- SPACE -	27			--	--	28	- SPACE -			1	--
--	1			- SPACE -	29	--	--			30	- SPACE -			1	--
--	1			- SPACE -	31			--	--	32	- SPACE -			1	--
--	1			- SPACE -	33	--	--			34	- SPACE -			1	--
--	1			- SPACE -	35			--	--	36	- SPACE -			1	--
--	1			- SPACE -	37	--	--			38	- SPACE -			1	--
--	1			- SPACE -	39			--	--	40	- SPACE -			1	--
--	1			- SPACE -	41	--	--			42	- SPACE -			1	--
				TOTAL LOAD:		100.2 kVA		100.1 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Other	0.0 kVA	0.00%	0.0 kVA		
Continuous	0.4 kVA	125.00%	0.5 kVA	**TOTAL CONN. LOAD (kVA):**	200.3 kVA
Non-Continuous	9.8 kVA	100.00%	9.8 kVA	**TOTAL EST. DEMAND (kVA):**	131.1 kVA
Metered Shore Power	187.2 kVA	63.00%	117.9 kVA	**TOTAL CONN.:**	835 A
Maint. Recpt.	2.9 kVA	100.00%	2.9 kVA	**TOTAL EST. DEMAND:**	546 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY
B. REFER TO DIAGRAM 2 / E2.1

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1,3	P-1	2.89%	90-100	600
2,4	METERED SHORE POWER	2.26%	90-100	600
5,7	METERED SHORE POWER	2.47%	90-100	600
6,8	P-2	0.90%	90-100	600
9,11	METERED SHORE POWER	2.80%	90-100	600
10,12	METERED SHORE POWER	2.82%	90-100	600
13	WALKWAY LIGHTING	2.49%	90-100	600
14	E-STOP	0.00%	90-100	600
15	GANGWAY LIGHTING	0.55%	90-100	600
16	NETWORK CABINET	0.00%	90-100	600
18,20	P-3	0.90%	90-100	600

BRANCH PANEL: PLB

LOCATION: DOCK E
SUPPLY FROM: TB
MOUNTING: SURFACE
ENCLOSURE: SSB

MANUFACTURER: SQUARE D
MODEL: I-LINE
PANEL NOTES:
VOLTS: 120/240 1Φ,3-WIRE

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB (SHUNT TRIP) SEE NOTE: B
MAINS RATING: 800 A
MCB RATING: 800 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A		B		CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
100 A	2	1G150	3	METERED SHORE POWER	1	11.1	11.1			2					
					3			11.1	11.1	4	METERED SHORE POWER	3	1G150	2	100 A
100 A	2	1G100	3	METERED SHORE POWER	5	11.1	11.1			6					
					7			11.1	11.1	8	METERED SHORE POWER	3	1G100	2	100 A
200 A	2	1G200	3	METERED SHORE POWER	9	24.4	24.4			10					
					11			24.4	24.4	12	METERED SHORE POWER	3	1G200	2	200 A
150 A	2	1G150	3	METERED SHORE POWER	13	18.3	18.3			14					
					15			18.3	18.3	16	METERED SHORE POWER	3	1G150	2	150 A
200 A	2	1G225	3	METERED SHORE POWER	17	24.4	24.4			18					
					19			24.4	24.4	20	METERED SHORE POWER	3	1G225	2	200 A
150 A	2	1G225	3	METERED SHORE POWER	21	18.3	18.3			22					
					23			18.3	18.3	24	METERED SHORE POWER	3	1G200	2	150 A
100 A	2	1G200	3	METERED SHORE POWER	25	11.1	11.1			26					
					27			11.1	11.1	28	METERED SHORE POWER	3	1G175	2	100 A
20 A	1	1G35	3	WALKWAY LIGHTING	29	0.3	0.0			30	E-STOP	3,B	1G35	1	20 A
20 A	1	1G35	3	NETWORK CABINET	31			0.0	--	32	- SPACE -			1	--
--	1			- SPACE -	33	--	--			34	- SPACE -			1	--
--	1			- SPACE -	35			--	--	36	- SPACE -			1	--
--	1			- SPACE -	37	--	--			38	- SPACE -			1	--
--	1			- SPACE -	39			--	--	40	- SPACE -			1	--
--	1			- SPACE -	41	--	--			42	- SPACE -			1	--
				TOTAL LOAD:		237.4 kVA		237.1 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Continuous	0.6 kVA	125.00%	0.7 kVA		
Non-Continuous	0.0 kVA	0.00%	0.0 kVA	**TOTAL CONN. LOAD (kVA):**	474.4 kVA
Metered Shore Power	465.6 kVA	36.00%	167.6 kVA	**TOTAL EST. DEMAND (kVA):**	176.6 kVA
Maint. Recpt.	8.3 kVA	100.00%	8.3 kVA	**TOTAL CONN.:**	1977 A
				TOTAL EST. DEMAND:	736 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY
B. REFER TO DIAGRAM 2 / E2.1

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1,3	METERED SHORE POWER	2.90%	90-100	600
2,4	METERED SHORE POWER	2.76%	90-100	600
5,7	METERED SHORE POWER	2.95%	90-100	600
6,8	METERED SHORE POWER	2.70%	90-100	600
9,11	METERED SHORE POWER	1.15%	90-100	600
10,12	METERED SHORE POWER	1.27%	90-100	600
13,15	METERED SHORE POWER	2.60%	90-100	600
14,16	METERED SHORE POWER	2.35%	90-100	600
17,19	METERED SHORE POWER	2.46%	90-100	600
18,20	METERED SHORE POWER	2.55%	90-100	600
21,23	METERED SHORE POWER	2.44%	90-100	600
22,24	METERED SHORE POWER	2.94%	90-100	600
25,27	METERED SHORE POWER	2.32%	90-100	600
26,28	METERED SHORE POWER	2.92%	90-100	600
29	WALKWAY LIGHTING	2.80%	90-100	600
30	E-STOP	0.00%	90-100	600
31	NETWORK CABINET	0.00%	90-100	600

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:
TRAVIS CLUB

ENGINEER:
MAFFETT LOFTIS, LLC
ENGINEERING
15 JEFFERSON AVE, STE 101
COLLEGE STATION, TX 77801
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions:		
No.	Date	Description
		Revisions indicated w/ △

SHEET: E4.1
TITLE: ELECTRICAL PANEL SCHEDULES
DATE: 05/30/2024
JOB NO: 24023
DWN BY: CVA

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

BRANCH PANEL: PLC

LOCATION: DOCK J
SUPPLY FROM: TC
MOUNTING: SURFACE
ENCLOSURE: SSC

MANUFACTURER: SQUARE D
MODEL: I-LINE
PANEL NOTES:
VOLTS: 120/240 1Φ,3-WIRE

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB (SHUNT TRIP) SEE NOTE: B
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
100 A	2	1G150	3	METERED SHORE POWER	1	11.1	11.1	2	METERED SHORE POWER	3	1G150	2	100 A
					3		11.1	4					
150 A	2	1G175	3	METERED SHORE POWER	5	18.3	18.3	6	METERED SHORE POWER	3	1G150	2	150 A
					7		18.3	8					
150 A	2	1G150	3	METERED SHORE POWER	9	18.3	18.3	10	METERED SHORE POWER	3	1G150	2	150 A
					11		18.3	12					
100 A	2	1G125	3	METERED SHORE POWER	13	11.1	11.1	14	METERED SHORE POWER	3	1G125	2	100 A
					15		11.1	16					
150 A	2	1G225	3	METERED SHORE POWER	17	18.3	18.3	18	METERED SHORE POWER	3	1G225	2	150 A
					19		18.3	20					
20 A	1	1G35	3	WALKWAY LIGHTING	21	0.3	0.0	22	E-STOP	3,B	1G35	1	20 A
20 A	1	1G35	3	WALKWAY LIGHTING	23		0.1	24	NETWORK CABINET	3	1G35	1	20 A
--	1			- SPACE -	25	--		26	- SPACE -			1	--
--	1			- SPACE -	27		--	28	- SPACE -			1	--
--	1			- SPACE -	29	--		30	- SPACE -			1	--
--	1			- SPACE -	31		--	32	- SPACE -			1	--
--	1			- SPACE -	33	--		34	- SPACE -			1	--
--	1			- SPACE -	35		--	36	- SPACE -			1	--
--	1			- SPACE -	37	--		38	- SPACE -			1	--
--	1			- SPACE -	39		--	40	- SPACE -			1	--
--	1			- SPACE -	41	--		42	- SPACE -			1	--
				TOTAL LOAD:		154.3 kVA	154.1 kVA						

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Continuous	0.6 kVA	125.00%	0.8 kVA		
Non-Continuous	0.0 kVA	0.00%	0.0 kVA	**TOTAL CONN. LOAD (kVA):**	308.4 kVA
Metered Shore Power	302.4 kVA	45.00%	136.1 kVA	**TOTAL EST. DEMAND (kVA):**	142.2 kVA
Maint. Recpt.	5.4 kVA	100.00%	5.4 kVA	**TOTAL CONN.:**	1285 A
				TOTAL EST. DEMAND:	593 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY
B. REFER TO DIAGRAM 2 / E2.1

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1,3	METERED SHORE POWER	2.91%	90-100	600
2,4	METERED SHORE POWER	2.83%	90-100	600
5,7	METERED SHORE POWER	2.71%	90-100	600
6,8	METERED SHORE POWER	2.97%	90-100	600
9,11	METERED SHORE POWER	1.33%	90-100	600
10,12	METERED SHORE POWER	1.17%	90-100	600
13,15	METERED SHORE POWER	2.54%	90-100	400
14,16	METERED SHORE POWER	2.50%	90-100	600
17,19	METERED SHORE POWER	3.00%	90-100	600
18,20	METERED SHORE POWER	2.91%	90-100	600
21	WALKWAY LIGHTING	1.97%	90-100	600
22	E-STOP	0.00%	90-100	600
23	WALKWAY LIGHTING	1.72%	90-100	600
24	NETWORK CABINET	0.00%	90-100	600

BRANCH PANEL: PLD

LOCATION: DOCK N
SUPPLY FROM: TD
MOUNTING: SURFACE
ENCLOSURE: SSD

MANUFACTURER: SQUARE D
MODEL: I-LINE
PANEL NOTES:
VOLTS: 120/240 1Φ,3-WIRE

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB (SHUNT TRIP) SEE NOTE: B
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
150 A	2	1G150	3	METERED SHORE POWER	1	18.3	18.3	2	METERED SHORE POWER	3	1G150	2	150 A
					3		18.3	4					
150 A	2	1G175	3	METERED SHORE POWER	5	18.3	18.3	6	METERED SHORE POWER	3	1G150	2	150 A
					7		18.3	8					
100 A	2	1G125	3	METERED SHORE POWER	9	11.1	11.1	10	METERED SHORE POWER	3	1G100	2	100 A
					11		11.1	12					
100 A	2	1G150	3	METERED SHORE POWER	13	11.1	11.1	14	METERED SHORE POWER	3	1G150	2	100 A
					15		11.1	16					
20 A	1	1G35	3	WALKWAY LIGHTING	17	0.3	0.0	18	E-STOP	3,B	1G35	1	20 A
20 A	1	1G35	3	NETWORK CABINET	19		0.0	20	NETWORK CABINET	3	1G35	1	20 A
--	1			- SPACE -	21	--		22	- SPACE -			1	--
--	1			- SPACE -	23		--	24	- SPACE -			1	--
--	1			- SPACE -	25	--		26	- SPACE -			1	--
--	1			- SPACE -	27		--	28	- SPACE -			1	--
--	1			- SPACE -	29	--		30	- SPACE -			1	--
--	1			- SPACE -	31		--	32	- SPACE -			1	--
--	1			- SPACE -	33	--		34	- SPACE -			1	--
--	1			- SPACE -	35		--	36	- SPACE -			1	--
--	1			- SPACE -	37	--		38	- SPACE -			1	--
--	1			- SPACE -	39		--	40	- SPACE -			1	--
--	1			- SPACE -	41	--		42	- SPACE -			1	--
				TOTAL LOAD:		117.7 kVA	117.4 kVA						

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Continuous	0.4 kVA	125.00%	0.5 kVA		
Non-Continuous	0.0 kVA	0.00%	0.0 kVA	**TOTAL CONN. LOAD (kVA):**	235.1 kVA
Metered Shore Power	230.4 kVA	54.00%	124.4 kVA	**TOTAL EST. DEMAND (kVA):**	129.2 kVA
Maint. Recpt.	4.3 kVA	100.00%	4.3 kVA	**TOTAL CONN.:**	980 A
				TOTAL EST. DEMAND:	538 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY
B. REFER TO DIAGRAM 2 / E2.1

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1,3	METERED SHORE POWER	1.33%	90-100	600
2,4	METERED SHORE POWER	1.16%	90-100	600
5,7	METERED SHORE POWER	2.58%	90-100	600
6,8	METERED SHORE POWER	2.83%	90-100	600
9,11	METERED SHORE POWER	2.41%	90-100	600
10,12	METERED SHORE POWER	2.91%	90-100	600
13,15	METERED SHORE POWER	2.95%	90-100	600
14,16	METERED SHORE POWER	2.90%	90-100	600
17	WALKWAY LIGHTING	2.38%	90-100	600
18	E-STOP	0.00%	90-100	600
19	NETWORK CABINET	0.00%	90-100	600
20	NETWORK CABINET	0.00%	90-100	600

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER: TRAVIS CLUB

ENGINEER: MAFFETT LOFTIS ENGINEERING, LLC
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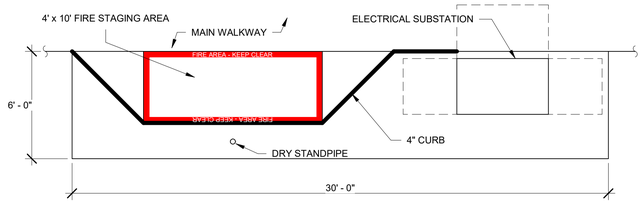
TEL: (831) 526-5143
www.maffettloftis.com

Revisions indicated w/ △

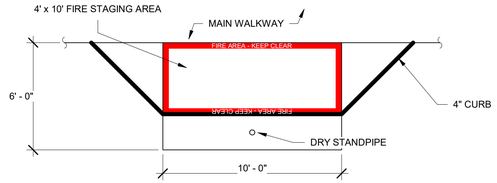
Revisions: No.	Date	Description

SHEET: E4.2
TITLE: ELECTRICAL PANEL SCHEDULES
DATE: 05/30/2024
JOB NO.: 24023
DWN BY: CWA

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER



DOCK WITH ELECTRICAL SUBSTATION



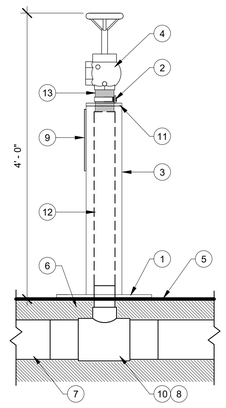
DOCK WITHOUT ELECTRICAL SUBSTATION

2 FP0.1 FIRE STAGING AREA PLATFORMS

NOT TO SCALE

PIPE MATERIAL

DOCK SIDE:
- HDPE BLACK, UV STABLE, FM APPROVED, DR-7.3 PIPE AND FITTINGS, MIN. 265 PSI HDPE PIPE JOINING SHALL BE HEAT FUSION WELDING, ASTM F2620
- FLEXIBLE PIPE SHALL BE TANK TRUCK, 300 PSI, MWHTT300-64



NUMBERED NOTES:

1. 16" x16" x 1/2" 304 STAINLESS STEEL BASE PLATE. SECURE TO DOCK STRUCTURE OR CONCRETE PAD.
2. STAINLESS STEEL PIPE CLAMP WITH SS BOLTS. WELD TO 6"Ø PIPE CAP.
3. 6"Ø SCHEDULE 80 STAINLESS STEEL 304 PIPE.
4. 2 1/2"Ø HOSE VALVE. COORDINATE WITH LOCAL FIRE DEPARTMENT.
5. DOCK FINISH SURFACE.
6. DOCK STRUCTURE.
7. 6"Ø HDPE FIRE LINE (FP) BLACK, UV STABLE FM APPROVED, CLASS 200, DR-9 PIPE AND FITTINGS. SUPPORT FROM DOCK STRUCTURE. COORDINATE.
8. COORDINATE ROUTING OF PIPE THRU DOCK STRUCTURE. OVERSIZE OPENING FOR EXPANSION AND CONTRACTION OF PIPE.
9. SIGNAGE. COORDINATE WITH LOCAL FIRE DEPARTMENT AND OWNER.
10. ALL FITTINGS SHALL BE RATED AND INSTALLED TO WITHSTAND THE FULL WORKING PRESSURE RATING OF THE PIPE.
11. CAP 6"Ø PIPE WITH 1/2" STAINLESS STEEL PLATE. WELD ALL AROUND.
12. ROUTED WITHIN 6"Ø SS PIPE.
13. HDPE TO 304 STAINLESS STEEL TRANSITION FITTING.

1 FP0.1 STANDPIPE DETAIL (SP)

NOT TO SCALE

GENERAL STANDPIPE FIRE PROTECTION NOTES:

A. STANDPIPE SYSTEMS SHALL BE INSTALLED COMPLETE WITH ALL WORK, MATERIALS, AND EQUIPMENT CUSTOMARILY CONSIDERED PART SUCH WORK FOR FULLY OPERATIONAL, COMPLETE, AND CODE COMPLIANT SYSTEMS. PROVIDE AND INSTALL ALL PIPING, EQUIPMENT, CONNECTIONS, VALVES, FITTINGS, ETC. AS REQUIRED.

B. PLANS ARE DIAGRAMMATIC AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEMS. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. ANY GROSS INTERFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING.

C. PLAN SCALES NOTED, IF ANY, ARE ONLY APPLICABLE TO PLANS PLOTTED AT FULL SIZE. CONTRACTOR IS CAUTIONED WHEN USING PLANS PLOTTED AR REDUCED SIZES. REGARDLESS, CONTRACTOR SHALL NOT SCALE PLANS, BUT SHALL REFER TO NOTED DIMENSIONS. FOR DIMENSIONS NOT NOTED, CONTRACTOR SHALL REFER TO ACTUAL FIELD CONDITIONS AND/OR DIMENSIONED ARCHITECTURAL, STRUCTURAL, OR CIVIL PLANS.

D. LOCATE AND INSTALL ALL EQUIPMENT CONSIDERING MANUFACTURER'S RECOMMENDED CLEARANCES.

E. INSTALL ALL SERVICEABLE EQUIPMENT, VALVES, ETC. IN ACCESSIBLE LOCATIONS.

F. INSTALL ALL PLASTIC PIPING SO TO BE SHIELDED FROM DIRECT SUNLIGHT AND UV RADIATION.

G. ALL EQUIPMENT AND COMPONENTS SHALL BEAR UL AND FM LABEL OR MARKINGS.

H. COORDINATE ROUTING OF MAIN AND BRANCH PIPING WITH OTHER TRADES AND STRUCTURAL INSTALLATION.

I. ALL PIPING SHALL BE SUPPORTED AND BRACED AS REQUIRED BY CODE AND THE PIPE MANUFACTURER. PIPE HANGER MATERIAL SHALL BE AS APPROVED BY AHJ.

J. FOR PROPER DRAINAGE, PITCH BRANCH PIPING TOWARD MAINS AND MAINS TOWARD RISER AND AUXILIARY DRAINS AS PRACTICAL. INSTALL AUXILIARY DRAINS FOR PIPING SECTIONS THAT CANNOT BE DRAINED BACK TO MAIN.

K. ALL EXPOSED METALLIC PIPING SHALL BE PAINTED RED.

L. ALL STANDPIPE SYSTEM PIPING FROM "POINT OF SERVICE" NOTED SHALL BE INSTALLED BY A REGISTERED SPRINKLER CONTRACTOR.

M. PORTABLE FIRE EXTINGUISHERS SHALL BE LOCATED PER ELECTRICAL.

N. PRESSURE TEST ALL PIPING AND FITTINGS PER CODE AND TO THE OPERATIONAL RATING OF THE PIPING: 200psi.

O. CONFIGURE SYSTEM SO TO ALLOW FOR 6" EXPANSION / CONTRACTION EVERY 100'-0" OF PIPE.

P. COORDINATE ROUTING OF PIPE THRU DOCK STRUCTURE. OVERSIZE OPENINGS FOR EXPANSION AND CONTRACTION OF PIPE.

Q. ALLOW FOR WATER ELEVATION CHANGE IN ALL PIPES CONNECTION TO SHORE.

R. SYSTEM SHALL MEET THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF THE FOLLOWING (LATEST ADOPTED VERSIONS - NOT ALL-INCLUSIVE LIST - SYSTEMS SHALL MEET ALL CODES AND REGULATIONS ENFORCED AT THE PROJECT SITE):

INTERNATIONAL FIRE CODE

NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

NFPA 303 FIRE PROTECTION STANDARD FOR MARINAS AND BOATYARDS

NFPA 307 STANDARD FOR THE CONSTRUCTION AND FIRE PROTECTION OF MARINE TERMINALS, PIERS AND WHARVES

NFPA 25 STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

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TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions:		
No.	Date	Description

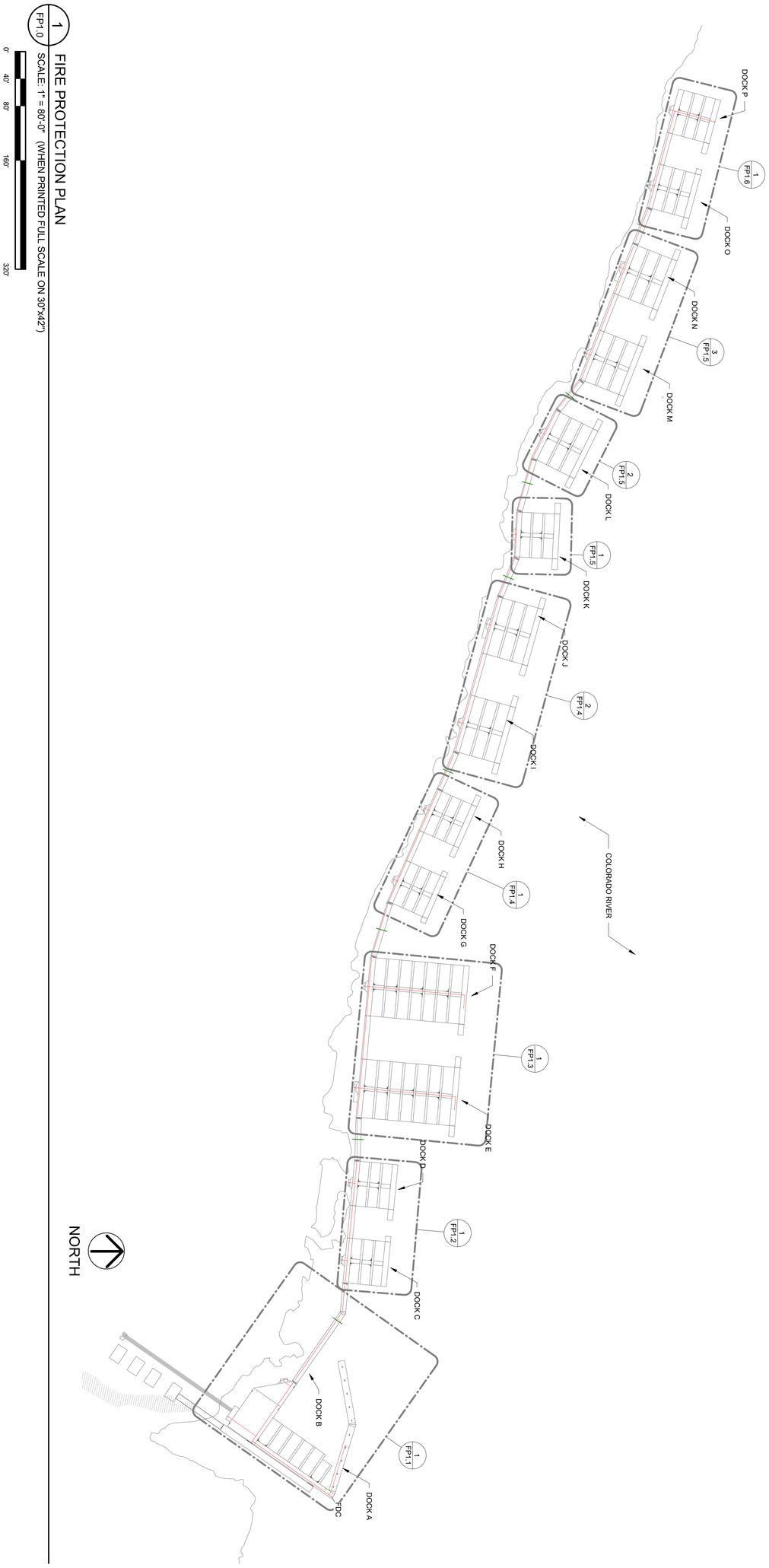
SHEET: FP0.1

TITLE: FIRE PROTECTION NOTES AND SCHEDULES

JOB NO: 24023

DATE: 05/30/2024

DWN BY: Author



1 FP1.0 FIRE PROTECTION PLAN

SCALE: 1" = 80'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 40' 80' 160' 320'

FP1.0

SHEET:

TITLE: FIRE PROTECTION PLAN

JOB NO: 24023 DATE: 05/30/2024

DWN BY: Author

Revisions: Revisions indicated w/ △

No.	Date	Description

ENGINEER:

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OWNER:

TRAVIS CLUB

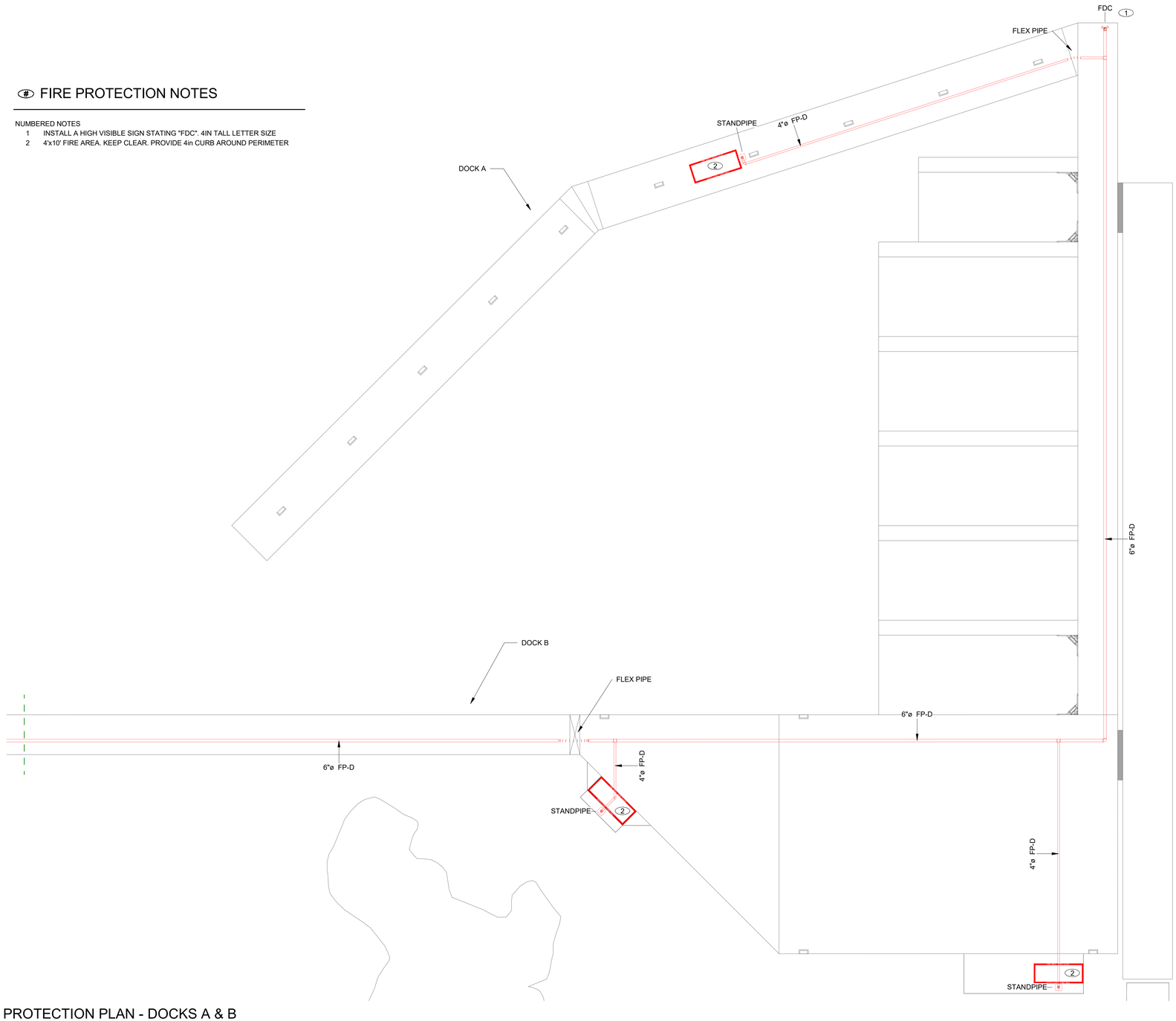
MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD SPICEWOOD, TX

STATE OF TEXAS
GARY DALE LOFTIS
136159
LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER

FIRE PROTECTION NOTES

NUMBERED NOTES
1 INSTALL A HIGH VISIBLE SIGN STATING "FDC". 4IN TALL LETTER SIZE
2 4'x10' FIRE AREA. KEEP CLEAR. PROVIDE 4in CURB AROUND PERIMETER



1 FP1.1 FIRE PROTECTION PLAN - DOCKS A & B

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

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ENGINEER:
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Revisions indicated w/ △

Revisions:		
No.	Date	Description

SHEET: FP1.1

TITLE: FIRE PROTECTION PLAN
DOCKS A & B

JOB NO: 24023

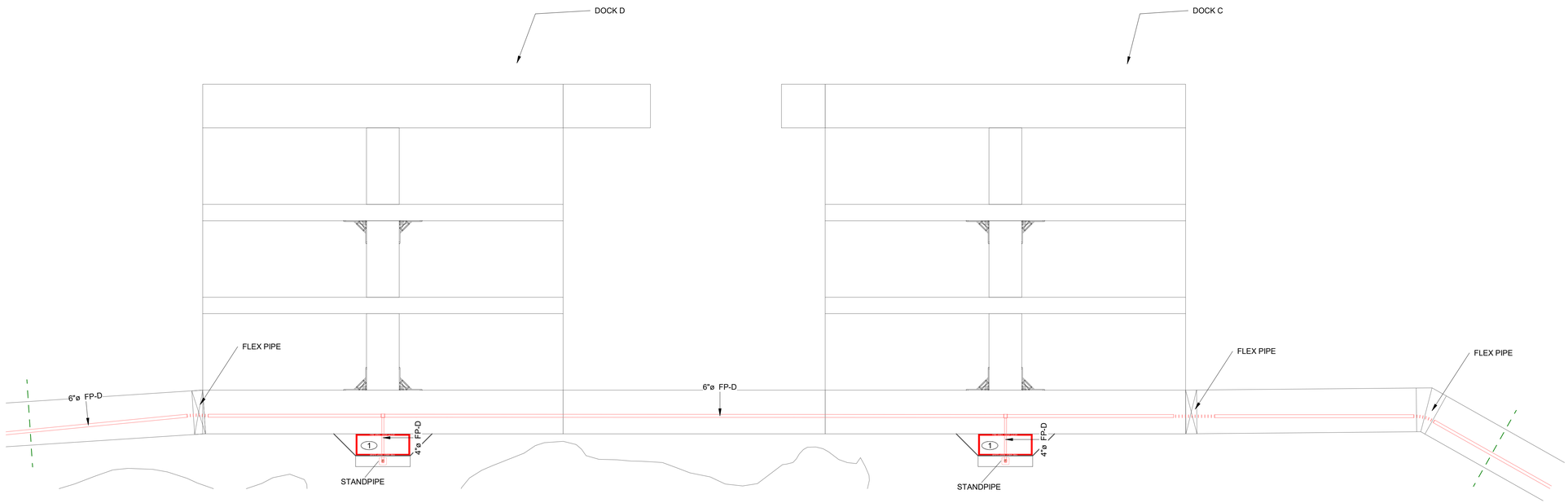
DATE: 05/30/2024

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED
PROFESSIONAL ENGINEER

FIRE PROTECTION NOTES

NUMBERED NOTES
1 4'x10' FIRE AREA. KEEP CLEAR



1 FP1.2 FIRE PROTECTION PLAN - DOCKS C & D

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

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TRAVIS CLUB

ENGINEER:
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COOKEVILLE, TN 38501
TEL: (931)526-5143
www.maffett-loftis.com

Revisions indicated w/ △

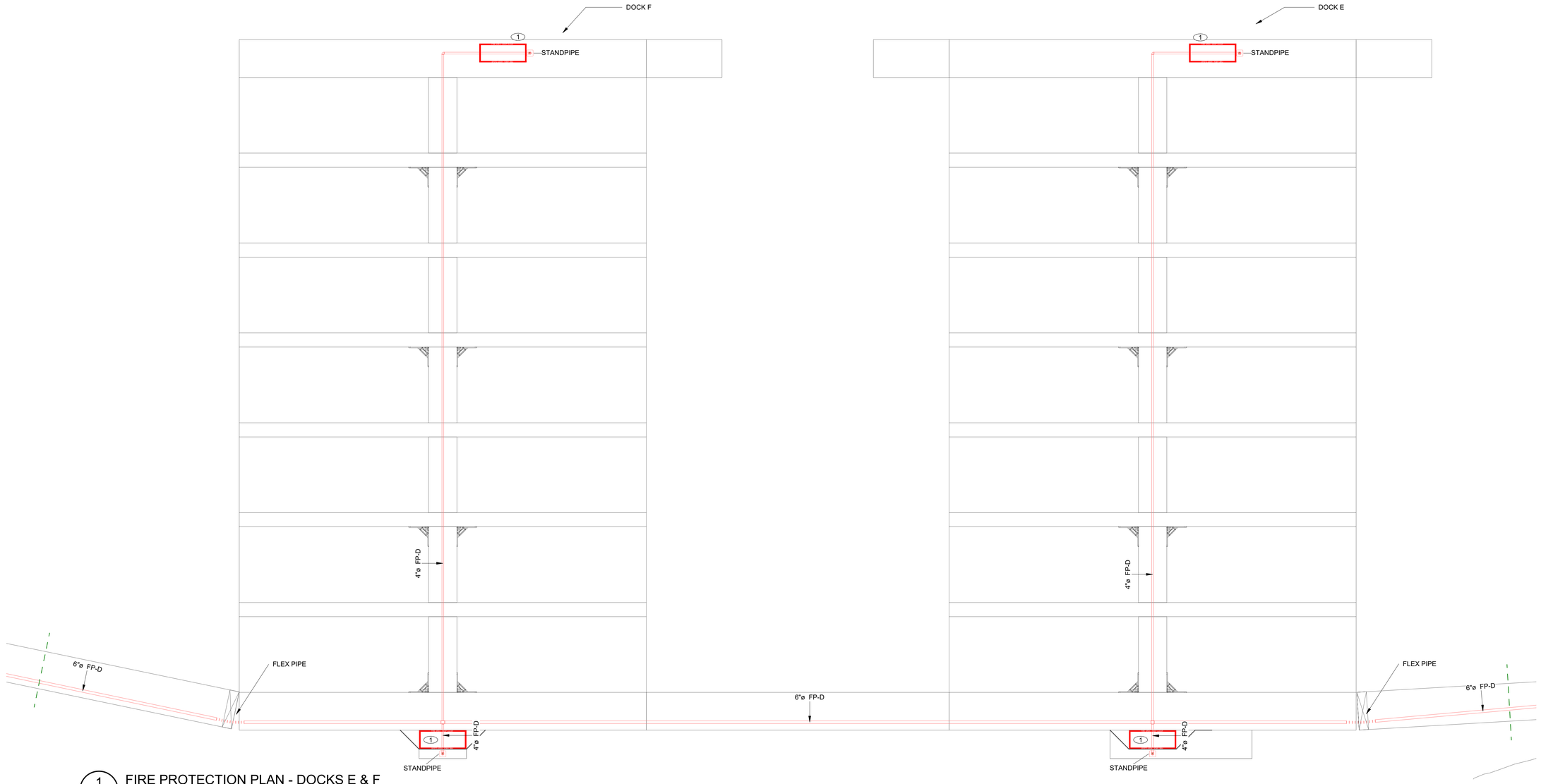
Revisions:	
No.	Date / Description

SHEET: FP1.2
TITLE: FIRE PROTECTION PLAN DOCKS C & D
JOB NO: 24023
DATE: 05/30/2024
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

FIRE PROTECTION NOTES

NUMBERED NOTES
1 4'x10' FIRE AREA. KEEP CLEAR



1 FP1.3 FIRE PROTECTION PLAN - DOCKS E & F

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

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TRAVIS CLUB

ENGINEER:
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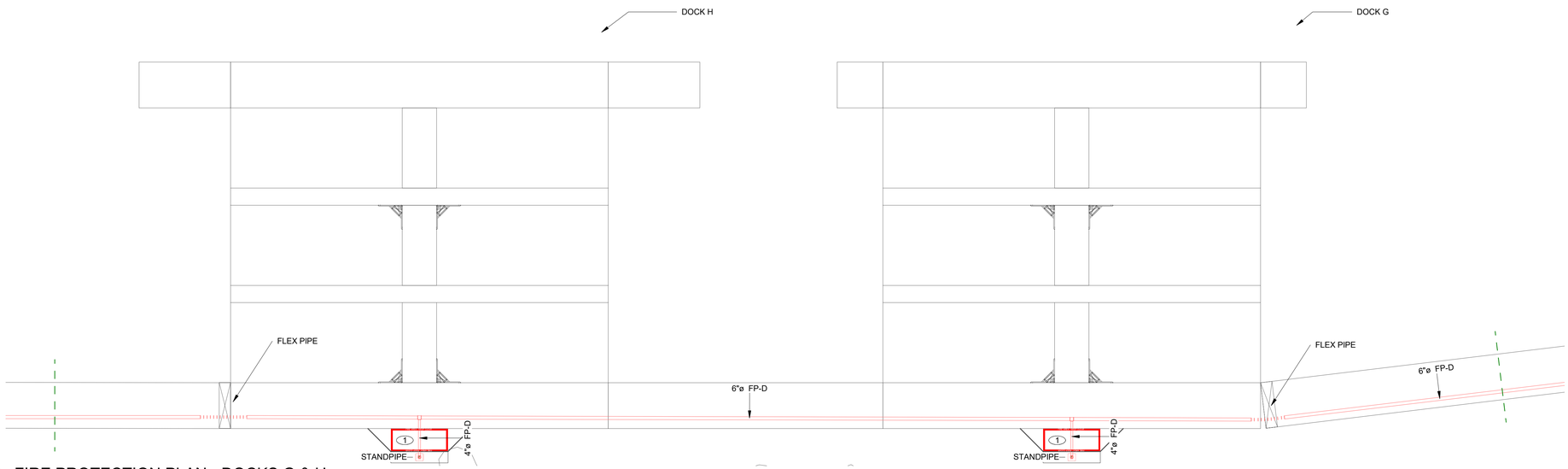
Revisions indicated w/ △
Revisions:
No. Date Description

SHEET: FP1.3
TITLE: FIRE PROTECTION PLAN DOCKS E & F
DATE: 05/30/2024
JOB NO: 24023
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

FIRE PROTECTION NOTES

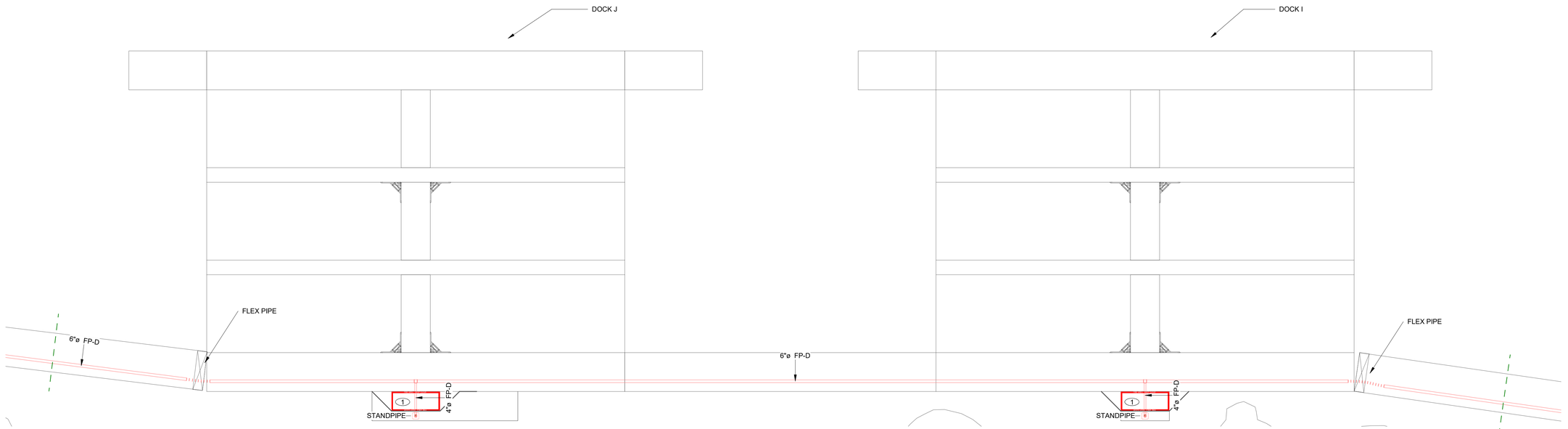
NUMBERED NOTES
1 4'x10' FIRE AREA. KEEP CLEAR



1 FP1.4 FIRE PROTECTION PLAN - DOCKS G & H

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'



2 FP1.4 FIRE PROTECTION PLAN - DOCKS I & J

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:
TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
15 JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: FP1.4

TITLE: FIRE PROTECTION PLAN DOCKS G, H, I, & J

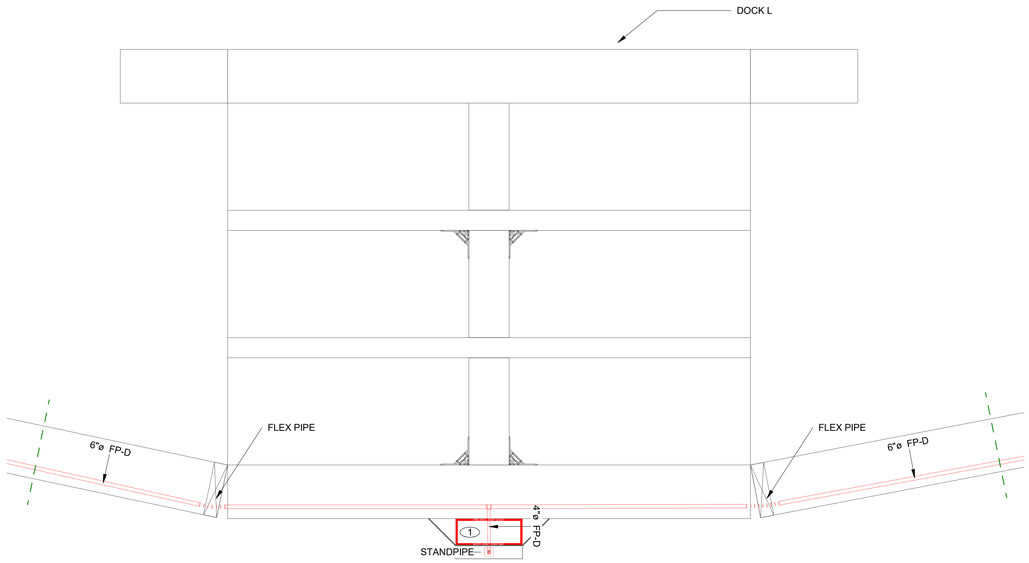
JOB NO. 24023 DATE: 05/30/2024

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

FIRE PROTECTION NOTES

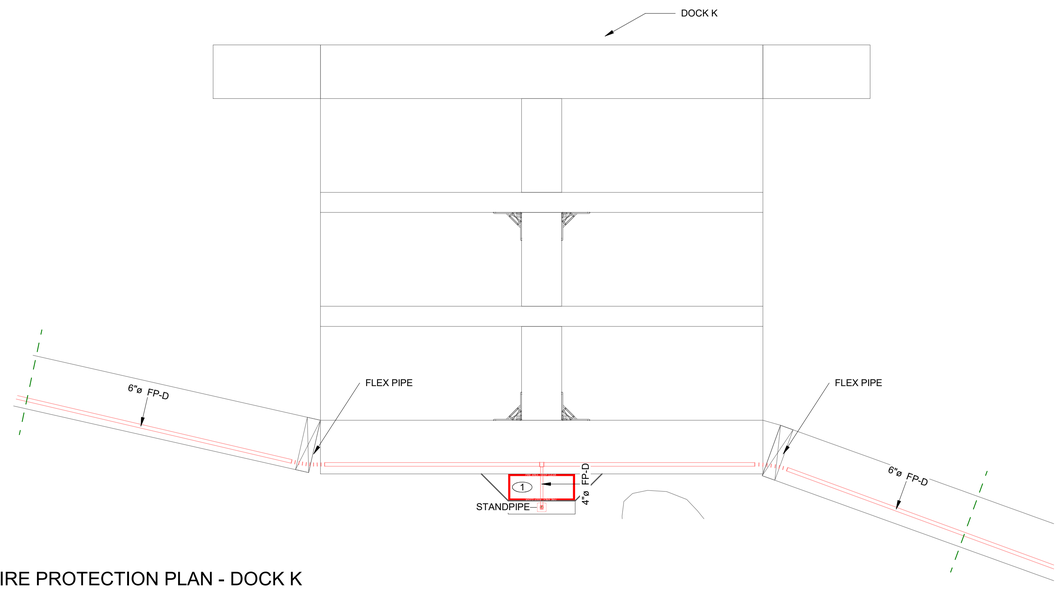
NUMBERED NOTES
1 4'x10' FIRE AREA. KEEP CLEAR



2 FP1.5 FIRE PROTECTION PLAN - DOCK L

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

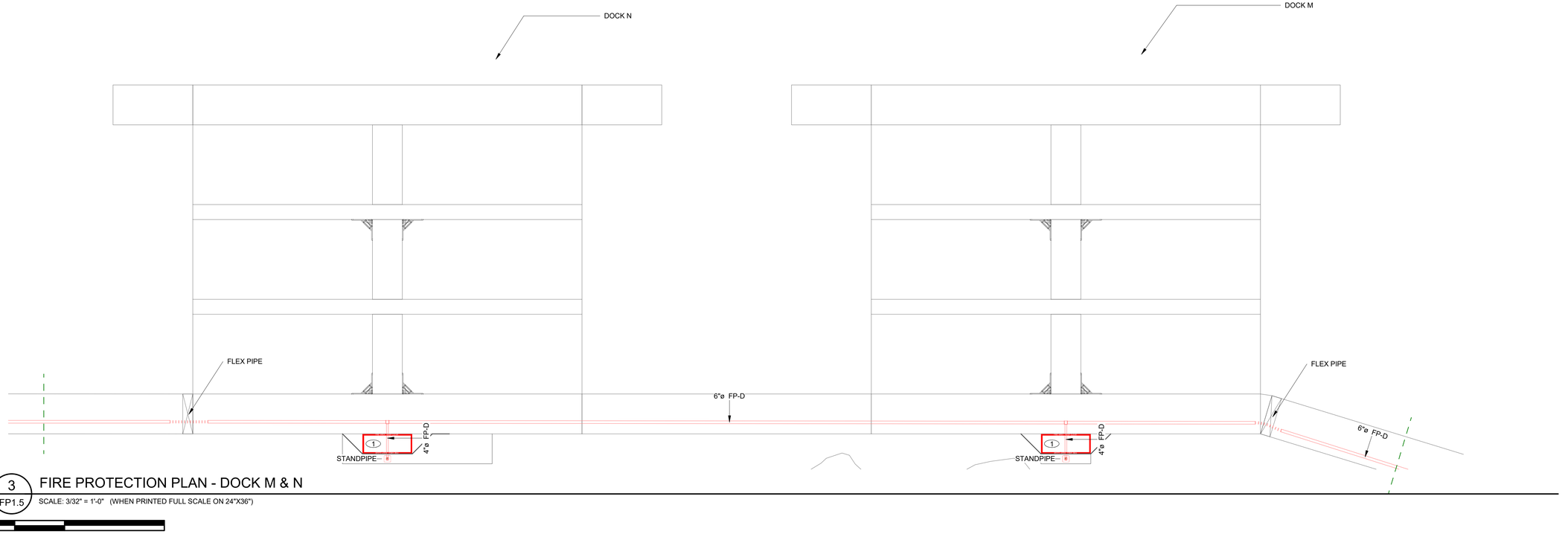
0' 5' 10' 20' 40'



1 FP1.5 FIRE PROTECTION PLAN - DOCK K

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'



3 FP1.5 FIRE PROTECTION PLAN - DOCK M & N

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
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SPICEWOOD, TX

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Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: FP1.5

TITLE: FIRE PROTECTION PLAN DOCKS K, L, M, & N

DATE: 05/30/2024

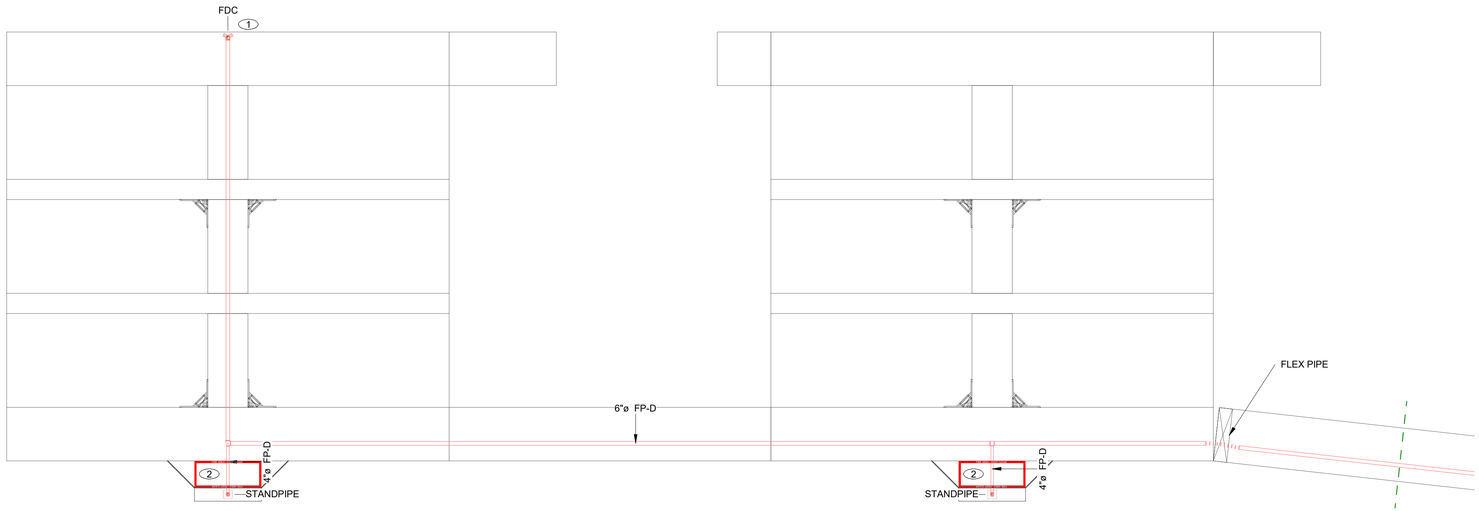
JOB NO. 24023

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

(#) FIRE PROTECTION NOTES

NUMBERED NOTES
1 INSTALL A HIGH VISIBLE SIGN STATING "FDC". 4IN TALL LETTER SIZE
2 4'x10' FIRE AREA. KEEP CLEAR



1 FP1.6 FIRE PROTECTION PLAN - DOCKS O & P

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
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www.maffett-lofts.com

Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: FP1.6
TITLE: FIRE PROTECTION PLAN O & P
JOB NO: 24023
DATE: 05/30/2024
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PIPING MATERIALS SCHEDULE

DESCRIPTION	MATERIAL	STANDARDS	REMARKS
DOMESTIC WATER SERVICE PIPE (MIN. 160 PSI @ 73.4 F)	HDPE	ASTM D3035 ASTM F714 NSF/ANSI 14	PERFORMANCE PIPE DRISCOPLEX OR EQUAL HEAT FUSED WELDED JOINTS
DOMESTIC WATER DISTRIBUTION PIPE (MIN. 100 PSI @ 180 F)	HDPE	ASTM D3035 ASTM F714 NSF/ANSI 14	PERFORMANCE PIPE DRISCOPLEX OR EQUAL HEAT FUSED WELDED JOINTS
GRAVITY DRAIN, WASTE, & VENT PIPING	SCHEDULE 40 PVC (SOLID WALL) (PROTECTED LOCATIONS)	ASTM D2665	SOLVENT JOINT
	HDPE (WHERE EXPOSED)	ASTM D3035 ASTM F714	PERFORMANCE PIPE DRISCOPLEX OR EQUAL HEAT FUSED WELDED JOINTS
FORCED SEWER PIPING	SCHEDULE 40 PVC (SOLID WALL)	ASTM D2665	SOLVENT JOINT
	HDPE	ASTM D3035 ASTM F714	PERFORMANCE PIPE DRISCOPLEX OR EQUAL HEAT FUSED WELDED JOINTS
FLEX PIPE (MIN. 100 PSI @ 180 F)	TANK TRUCK	MWHTT300-64	
HANGERS	HDPE	PER CODE	2'-8" O.C. MAX.
	SCHEDULE 40 PVC	PER CODE	4'-0" O.C. MAX.

NOTES:

1. INSTALL ALL MATERIALS CONSISTENT WITH CODES, LISTING AGENCIES, AND MANUFACTURER RECOMMENDATIONS.
2. CONTRACTOR MUST BE TRAINED AND MANUFACTURER CERTIFIED FOR THE MATERIALS UTILIZED.
3. ALL DOMESTIC WATER PIPING SHALL CONFORM WITH NSF 14 AND 61 AS APPLICABLE.
4. WITHOUT EXCEPTION, ONLY PLUMBING COMPONENTS THAT HAVE BEEN CERTIFIED AS "LEAD FREE" SHALL BE ALLOWED TO BE INSTALLED ON POTABLE WATER SYSTEMS. REFERENCE NSF/ANSI 371.
5. FLEXIBLE PIPING TO BE:
   A. PERFORMANCE PIPE -DRISCOPLEX SERIES OR EQUAL
   B. WATER PIPING TO BE BLUE, SEWER PIPING TO BE GREEN

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SERVICES C.W.	H.W.	S.S.	V.	REMARKS
HB	HOSE BIBB	ZURN	195XL	3/4"				LOW LEAD, CAST BRONZE, NEOPRENE ELASTOMERS, MAX. WORKING PRESSURE 125 psi, PROVIDE VACUUM BREAKER
PHM	PUMPOUT HYDRANT MOUNT	EDSON	160-A-2383-200					BALL VALVE, DECK MOUNT, QUICK CLAMP HOSE CONNECTION, TETHERED PLUG w/ FEMALE #160-A-2384-150
BV	Ball Valve	Zurn Wilkins	850					Threaded Connections ANSI B1.20.1

PLUMBING LEGEND

- SANITARY SEWER
- VENT AND/OR DRAIN ABOVE
- COLD WATER DISTRIBUTION
- HOT WATER DISTRIBUTION
- HOT WATER RETURN
- WATER SERVICE PIPING
- G — G : GAS PIPING
- CA — CA : COMPRESSED AIR PIPING
- RISER DOWN
- RISER UP
- SINGLE LINE RISER DOWN
- SINGLE LINE RISER UP
- SINGLE LINE TEE DOWN
- SINGLE LINE TEE UP
- BALL VALVE
- -1'-2" : INVERT ELEVATION POINT WITH DIMENSION RELATIVE TO FINISH FLOOR

PUMP SCHEDULE

DESIGNATION	P1	P2	P3
SERVICE	BOAT HOLDING TANK PUMP-OUT	BATH HOUSE AND DOCK	PRESSURE BOOSTER
TYPE	PERISTALTIC	DUPLEX GRINDER	PROGRESSIVE CAVITY
GPM	40	39	35
TDH (FT H_2O)	- -	50	100
NPSH	SPEC	SPEC	4.1
POWER	3 HORSEPOWER	(2) 2 HORSEPOWER	2 HORSEPOWER
VOLTAGE / PHASE	240V, SINGLE PHASE	240V, SINGLE PHASE	240V, SINGLE PHASE
RPM	80	SPEC	700
MANUFACTURER	EDSON , PLATINUM SERIES	LIBERTY PUMPS	LIBERTY PROCESS
MODEL NUMBER	28623 - 3HP	D3672LSG	1LL6

P1 REMARKS:

1. PUMP MOTOR SHALL BE HIGH EFFICIENCY TYPE AND NON-OVERLOADING.
2. PROVIDE SUCTION HOSE, HOSE STAND, AND INTAKE FITTING PER PUMP MANUFACTURER. COORDINATE WITH OWNER.
3. WEATHER COVER BOX BY MANUFACTURER.
4. RADIO REMOTE CONTROL. COORDINATE WITH OWNER.

P2 REMARKS:

1. WEIGHT - 515 LBS EMPTY, 3,160 LBS FILLED
2. DIMENSIONS - 42"Ø X 72"H
3. 317 GAL WOUND FIBERGLASS TANK WITH STEEL COVER
4. STAINLESS STEEL GUIDE RAIL SYSTEM
5. COORDINATE WITH DOCK MANUFACTURER FOR INSTALLATION OF TANK.

P2 REMARKS:

1. WEIGHT - 515 LBS EMPTY, 3,160 LBS FILLED
2. DIMENSIONS - 42"Ø X 72"H
3. 317 GAL WOUND FIBERGLASS TANK WITH STEEL COVER
4. STAINLESS STEEL GUIDE RAIL SYSTEM
5. COORDINATE WITH DOCK MANUFACTURER FOR INSTALLATION OF TANK.

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
BV	BALL VALVE
CV	CHECK VALVE
CW	COLD WATER
CWB	CLOTHES WATER BOX
CWUFB	COLD WATER UP FROM BELOW
CWUTA	COLD WATER UP TO ABOVE
DCS	DOUBLE COMPARTMENT SINK
DZ	DOWNSPOUT NOZZLE
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GI	GREASE INTERCEPTOR
GV	GATE VALVE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HCWC	HANDICAPPED WATER CLOSET
HW	HOT WATER
HWDFA	HOT WATER DOWN FROM ABOVE
HWDTB	HOT WATER DOWN TO BELOW
HWRUFB	HOT WATER RETURN UP FROM BELOW
HWRUTA	HOT WATER RETURN UP TO ABOVE
HWUFB	HOT WATER UP FROM BELOW
HWUTA	HOT WATER UP TO ABOVE
LAV	LAVATORY
MS	MOP SINK
ODEWH	ON DEMAND ELECTRIC WATER HEATER
RH	ROOF HYDRANT
RP	RECIRCULATING PUMP
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SCS	SINGLE COMPARTMENT SINK
SD	STORM DRAIN
SDDFA	STORM DRAIN DOWN FROM ABOVE
SDDTB	STORM DRAIN DOWN TO BELOW
SS	SANITARY SEWER
SSDFA	SANITARY SEWER DOWN FROM ABOVE
SSDTB	SANITARY SEWER DOWN TO BELOW
SWR	SHOWER
TP	TRAP PRIMER
TPDU	TRAP PRIMER DISTRIBUTION UNIT
UR	URINAL
V	VENT
VB	VALVE BOX
VTR	VENT THRU ROOF
VUFB	VENT UP FROM BELOW
VUTA	VENT UP TO ABOVE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER
YCO	YARD CLEAN OUT
YCO (TR)	YARD CLEAN OUT - TRAFFIC RATED

GENERAL PLUMBING NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE, CURRENTLY ADOPTED, CODES AT THE TIME OF THE PLAN DATE, INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING:
   IBC INTERNATIONAL BUILDING CODE
   IFC INTERNATIONAL FIRE CODE
   NFPA 101 LIFE SAFETY CODE
   IPC INTERNATIONAL PLUMBING CODE
2. PLUMBING SYSTEMS SHALL BE INSTALLED COMPLETE WITH ALL WORK, MATERIALS, AND EQUIPMENT CUSTOMARILY CONSIDERED PART OF SUCH WORK FOR FULLY OPERATIONAL, COMPLETE, AND CODE COMPLIANT SYSTEMS. PROVIDE AND INSTALL ALL PIPING, CONNECTIONS, VALVES, FITTINGS, AND FIXTURES COMPLETE WITH TRAPS, SUPPLIES, STOPS, ETC. AS REQUIRED.
3. PLANS ARE DIAGRAMMATIC AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEMS. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. ANY GROSS INTERFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING.
4. PLAN SCALES NOTED, IF ANY, ARE ONLY APPLICABLE TO PLANS PLOTTED AT FULL SIZE. CONTRACTOR IS CAUTIONED WHEN USING PLANS PLOTTED AT REDUCED SIZES. REGARDLESS, CONTRACTOR SHALL NOT SCALE PLANS, BUT SHALL REFER TO ACTUAL FIELD CONDITIONS AND/OR DIMENSIONED ARCHITECTURAL, STRUCTURAL, OR CIVIL PLANS.
5. SUBMITTAL REQUIREMENTS: CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL DETAILED PRODUCT INFORMATION ON ALL EQUIPMENT PROPOSED FOR USE. SUBMITTAL SHALL BE APPROVED, AND ENGINEER SHALL REVIEW AND APPROVE PRIOR TO EQUIPMENT PURCHASE. SUBMITTALS SHALL BE SUBMITTED IN ELECTRONIC (PDF) FORMAT WITH THE FILES NAMED WITH THE RELEVANT SPEC SECTION NUMBERING. PRIOR TO SUBMITTAL CONTRACTOR SHALL REVIEW AND CERTIFY BY SIGNATURE THE SUBMITTED EQUIPMENT MEET SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS, FITTINGS, AND CONSTRUCTION FEATURES RELATIVE TO EQUIPMENT. APPROVAL OF SUBMITTAL INFORMATION BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR'S OBLIGATION TO PROVIDE CODE COMPLIANT SYSTEMS.
6. LOCATE AND INSTALL ALL EQUIPMENT CONSIDERING MANUFACTURER'S RECOMMENDED CLEARANCES, MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND LISTING AGENCY CERTIFICATIONS.
7. INSTALL ALL SERVICEABLE EQUIPMENT, VALVES, UNIONS, CLEAN OUTS, ETC. IN ACCESSIBLE LOCATIONS.
8. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS. COORDINATE WITH ELECTRICAL CONTRACTOR.
9. FIRE STOPPING SYSTEM SHALL BE INSTALLED AT ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, OR CONSTRUCTION.
10. PROVIDE AND INSTALL ALL HANGERS AND SUPPORTS AS REQUIRED BY CODE CONSISTENT WITH THE MATERIAL OR EQUIPMENT SUPPORTED.
11. SLEEVE ALL PENETRATIONS THROUGH MASONRY OR CONCRETE FLOOR SLABS, WALLS, OR FOOTINGS.
12. THE PLANS AND SPECIFICATIONS FOR THIS WORK HAVE BEEN PREPARED WITH THE INTENT TO BE AS ACCURATE AND COMPLETE AS PRACTICAL, BUT ERRORS, OMISSIONS, AND CONFLICTS MAY EXIST. PRIOR TO SUBMITTING A BID FOR CONSTRUCTION, THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS IN DETAIL. ANY QUESTIONS OR COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING A BID. BY SUBMITTING A BID FOR THE WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS REVIEWED THE PLANS AND SPECIFICATIONS, UNDERSTANDS THE DESIGN INTENT, AND DOES NOT HAVE ANY FURTHER QUESTIONS OR COMMENTS.
13. WITHOUT EXCEPTION, ONLY PLUMBING COMPONENTS THAT HAVE BEEN CERTIFIED AS "LEAD FREE" SHALL BE ALLOWED TO BE INSTALLED ON POTABLE WATER SYSTEMS. REFERENCE NSF/ANSI 372.

DOMESTIC WATER NOTES:

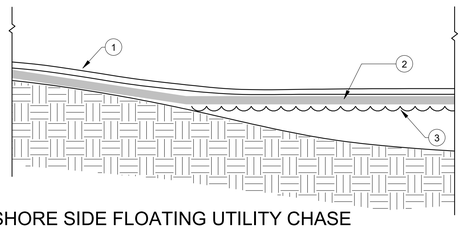
1. FLUSH AND CLEAN DOMESTIC WATER LINES BEFORE CONNECTION FIXTURES.
2. TEST WATER PIPING TO 100 psi HYDROSTATIC PRESSURE FOR FOUR HOURS MINIMUM BEFORE BACK FILLING OR CONCEALMENT.

SANITARY SEWER NOTES:

1. ALL HORIZONTAL SWEEPS IN SEWER PIPING SHALL INCORPORATE 45^0 WYE FITTINGS.
2. TEST FORCE MAIN TO 5 psi GREATER THAN THE PUMP RATING FOR FOUR HOURS.

NUMBERED NOTES

1. FLEXIBLE PIPING. PROVIDE LOOP IN ALL TO ALLOW ADEQUATE MOVEMENT OF CHASE. FLEXIBLE PIPE SHALL NOT COME IN CONTACT WITH WATER AT ANY TIME.
2. FLOATING UTILITY CHASE - FOR REFERENCE ONLY.
3. WATER LEVEL.

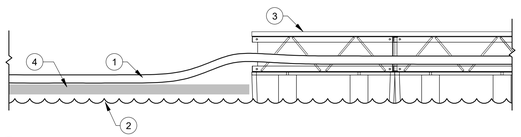


1 P0.1 SHORE SIDE FLOATING UTILITY CHASE

NOT TO SCALE

NUMBERED NOTES

1. FLEXIBLE PIPING. PROVIDE LOOP IN ALL TO ALLOW ADEQUATE MOVEMENT OF GANGWAY. FLEXIBLE PIPE SHALL NOT COME IN CONTACT WITH WATER AR ANY TIME.
2. WATER LEVEL.
3. DOCK FRAMING - FOR REFERENCE ONLY.
4. FLOATING UTILITY CHASE - FOR REFERENCE ONLY.



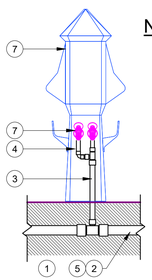
2 P0.1 DOCK SIDE FLOATING UTILITIES CHASE

NOT TO SCALE

NUMBERED NOTES

1. COORDINATE ROUTING OF PIPE WITH DOCK MANUFACTURER.
2. PEX DOMESTIC WATER PIPING. SEE PLANS FOR SIZE.
3. 1"Ø PEX DOMESTIC WATER PIPING.
4. 3/4"Ø PEX DOMESTIC WATER PIPING.
5. COORDINATE ROUTING OF PIPING THRU DOCK STRUCTURE. OVERSIZE OPENING FOR EXPANSION AND CONTRACTION OF PIPE MOVEMENT.
6. HOSE VALVE (HV). SEE SCHEDULE.
7. POWER PEDESTAL - REFERENCE ONLY.

NOTE:
HV-3 SIMILAR, ONLY ONE HOSE VALVE

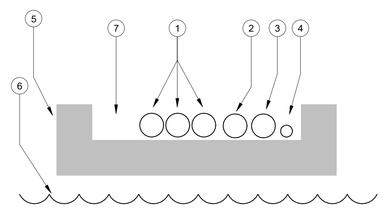


3 P0.1 PEDESTAL HOSE VALVE DETAIL (HV-2)

NOT TO SCALE

NUMBERED NOTES

1. 4" ELECTRICAL PVC CONDUIT
2. 4" TELECOMMUNICATIONS PVC
3. 4" SANITARY SEWER PVC
4. 2" DOMESTIC WATER PVC
5. FLOATING UTILITY CHASE. COORDINATE WITH DOCK MANUFACTURER
6. WATER LEVEL.
7. 8" FLEX AREA



4 P0.1 FLOATING UTILITIES CHASE CONTENTS

NOT TO SCALE

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
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Revisions indicated w/ Description

Revisions:
No. Date

SHEET: P0.1

TITLE: PLUMBING NOTES AND SCHEDULES

DATE: 05/30/2024

JOB NO: 24023

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
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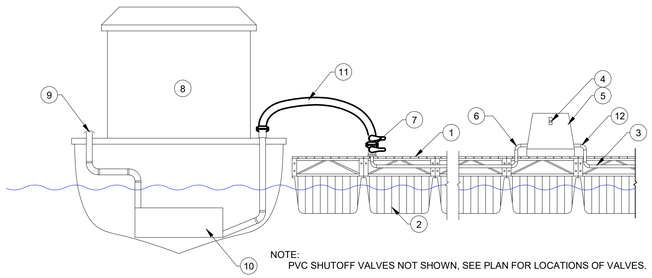


NOTE:
PVC SHUTOFF VALVES NOT SHOWN, SEE PLAN FOR LOCATIONS OF VALVES.

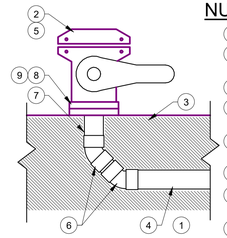
NUMBERED NOTES:

1. DOCK DECK, REFERENCE ONLY
2. DOCK STRUCTURE, REFERENCE ONLY
3. HDPE FORCED LINE TO SHORE
4. "PUSH TO START" SWITCH WITH OFF TIMER
5. 3 H.P. PERISTALTIC PUMP
6. HDPE VACUUM LINE
7. PUMP STATION (PS) SEE DETAIL ABOVE
8. BOAT, REFERENCE ONLY
9. HOLDING TANK VENT, REFERENCE ONLY
10. BOAT HOLDING TANK, REFERENCE ONLY
11. VACUUM HOSE WITH QUICK COUPLE CONNECTIONS
12. HDPE FORCED LINE

2 PERISTALTIC PUMP-OUT SCHEMATIC

P1.1

NOT TO SCALE



NUMBERED NOTES

1. COORDINATE ROUTING OF PIPE WITH DOCK MANUFACTURER.
2. PUMPOUT HYDRANT. SEE SCHEDULE. COORDINATE LOCATION WITH DOCK STRUCTURE.
3. DOCK STRUCTURE.
4. 2"Ø FORCED SANITARY SEWER PIPE TO PERISTALTIC PUMP. COORDINATE SUPPORTS WITH DOCK STRUCTURE.
5. PROVIDE BALL VALVE, CAMLOCK, PLUG, AND ALL OTHER DEVICES FOR PUMP OUT HOSE CONNECTION. COORDINATE MANUFACTURE WITH OWNER.
6. PROVIDE (2) 45° FITTINGS OR WYE WITH (1) 45° FITTING.
7. COORDINATE ROUTING OF PIPE THRU DOCK STRUCTURE. OVERSIZE OPENING TO EXPANSION AND CONTRACTION OF PIPE MOVEMENT.
8. ANCHOR TO DOCK STRUCTURE WITH STAINLESS STEEL HARDWARE.
9. USE APPROPRIATE STAINLESS STEEL FITTINGS TO TRANSITION FROM SEWER LINE TO VALVES.

3 PUMP STATION DETAIL (PS)

P1.1

NOT TO SCALE

1 SANITARY SEWER PLAN DOCKS A & B

P1.1

SCALE: 1/16" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 8' 16' 32' 64'

NORTH

PLUMBING NOTES

GENERAL NOTES

A SEE SANITARY SEWER ISOMETRIC FOR PIPE SIZES NOT SHOWN.
B ALL FLOOR DRAINS TO BE SUPPLIED WITH WATER FROM TRAP PRIMER TAILPIECE FROM A LAVATORY OR TRAP PRIMER.
C COORDINATE ROUTING OF PIPE WITH OTHER TRADES.

NUMBERED NOTES

1 LIBERTY LIFT STATION. COORDINATE ACTUAL LOCATION WITH OWNER TO ALLOW FOR GRAVITY FLOW FROM BATHHOUSE SEWER. BATHHOUSE SEWER DESIGN SHALL BE PROVIDED BY OWNER AND SHALL GRAVITY FLOW INTO LIFT STATION RESEVOIR.
2 ROUTE SEWER LINE TO LOCATION ON SHORE. COORDINATE WITH OWNER FOR MANHOLE LOCATION.

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Revisions: No.	Date	Description

SHEET: P1.1
TITLE: SANITARY SEWER PLAN
JOB NO: 24023
DATE: 05/30/2024
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

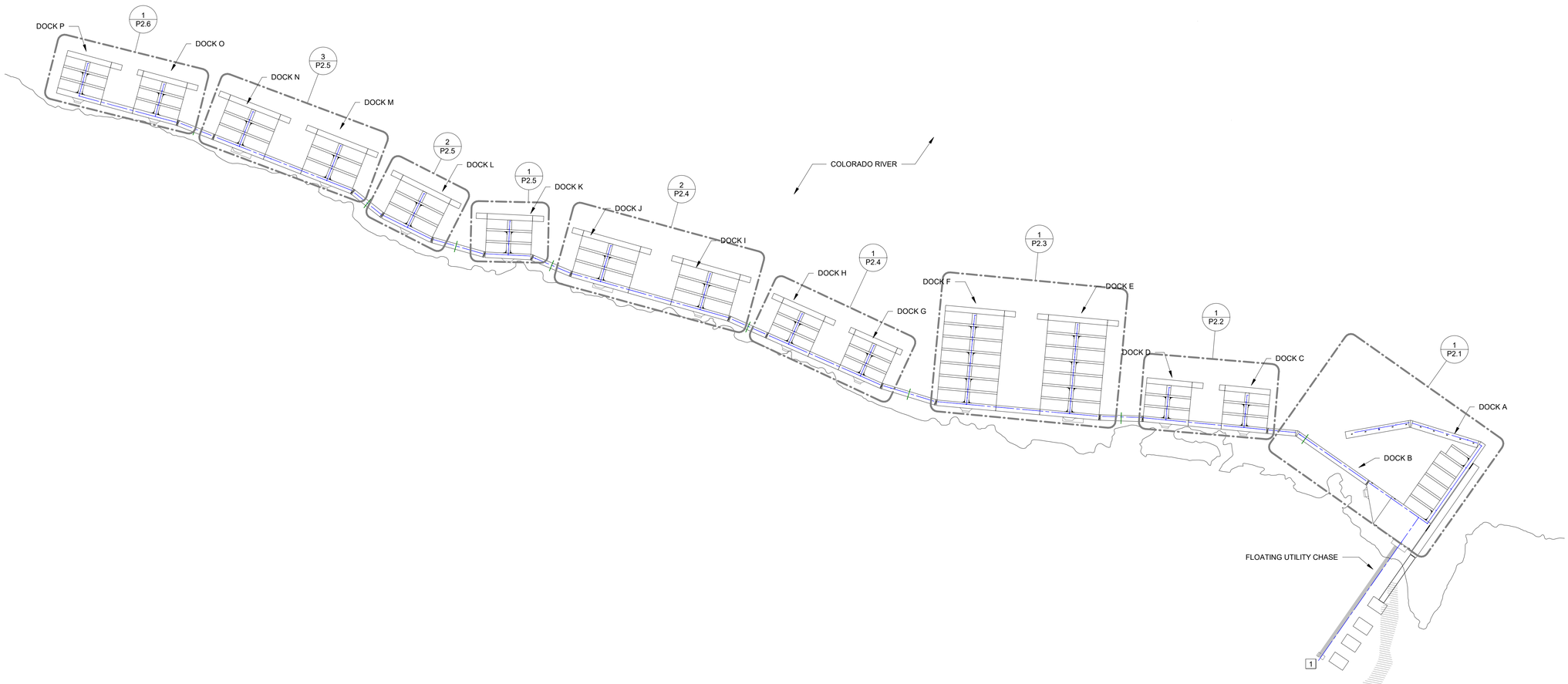
PLUMBING NOTES

GENERAL NOTES

- A SEE DOMESTIC WATER ISOMETRIC FOR PIPE SIZES NOT SHOWN.
- B COORDINATE ROUTING OF PIPE WITH OTHER TRADES.
- C ROUTE ALL DOMESTIC WATER LINES WITHIN THERMAL ENVELOPE OF BUILDING.
- D ALL EXPOSED WATER LINES TO BE COPPER.
- E ALL DOMESTIC WATER LINES ROUTED ABOVE SLAB AND/OR CEILING UNLESS NOTED OTHERWISE.
- F NO FITTINGS/JOINTS ALLOWED IN DOMESTIC WATER LINES ROUTED BELOW SLAB.

NUMBERED NOTES

- 1 ROUTE WATER LINE TO SHORE. COORDINATE WITH OWNER FOR BACKFLOW AND METER LOCATION



1 P2.0 DOMESTIC WATER PLAN

SCALE: 1" = 80'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 40' 80' 160' 320'

NORTH

FLOATING UTILITY CHASE

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: P2.0

TITLE: DOMESTIC WATER PLAN

JOB NO: 24023 DATE: 05/30/2024

DWN BY: Author

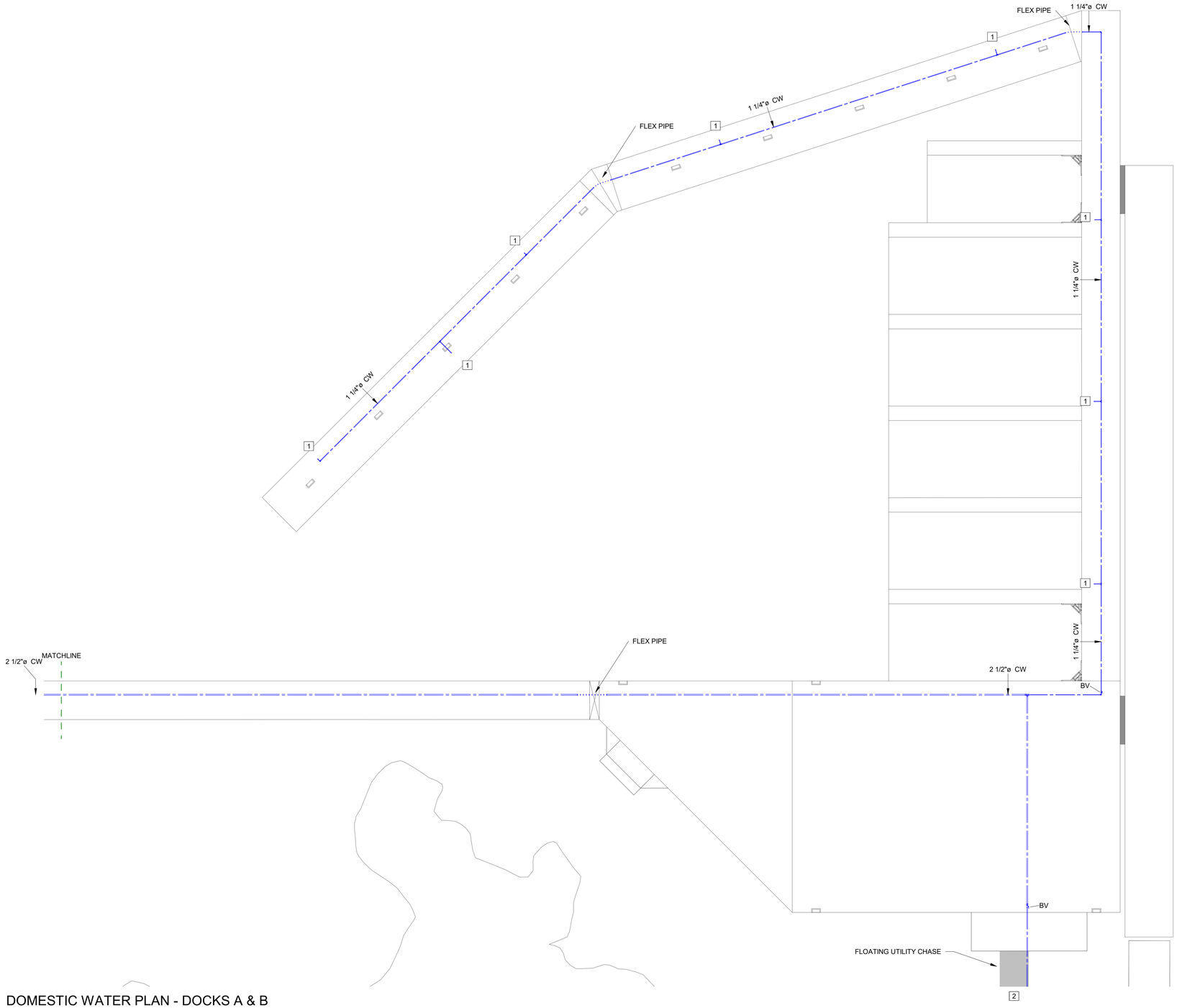
STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PLUMBING NOTES

NUMBERED NOTES

1 ROUTE 3/4"Ø DOMESTIC COLD WATER TO PEDESTAL FIXTURE HB. COORDINATE EXACT LOCATION WITH OWNER.

2 ROUTE WATER LINE TO SHORE. COORDINATE WITH OWNER FOR BACKFLOW AND METER LOCATION



1 / P2.1 DOMESTIC WATER PLAN - DOCKS A & B

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

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TRAVIS CLUB

ENGINEER:

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COOKEVILLE, TN 38501
TEL: (931) 526-5143
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Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: P2.1

TITLE: DOMESTIC WATER PLAN DOCKS A & B

JOB NO: 24023

DATE: 05/30/2024

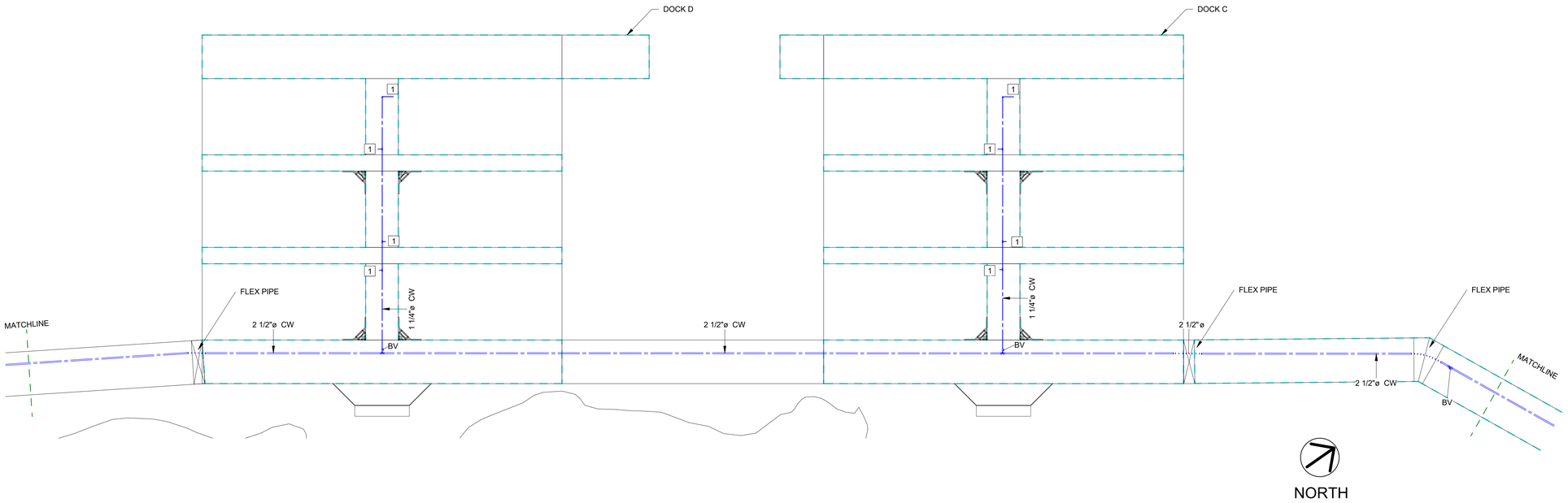
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PLUMBING NOTES

NUMBERED NOTES

1 ROUTE 3/4"Ø DOMESTIC COLD WATER TO PEDESTAL FIXTURE HB. COORDINATE EXACT LOCATION WITH OWNER.



1 P2.2 DOMESTIC WATER PLAN - DOCKS C & D

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER: TRAVIS CLUB

ENGINEER:
MAFFETT LOFTIS ENGINEERING, LLC
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COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions:
No. Date Description
Revisions indicated w/ △

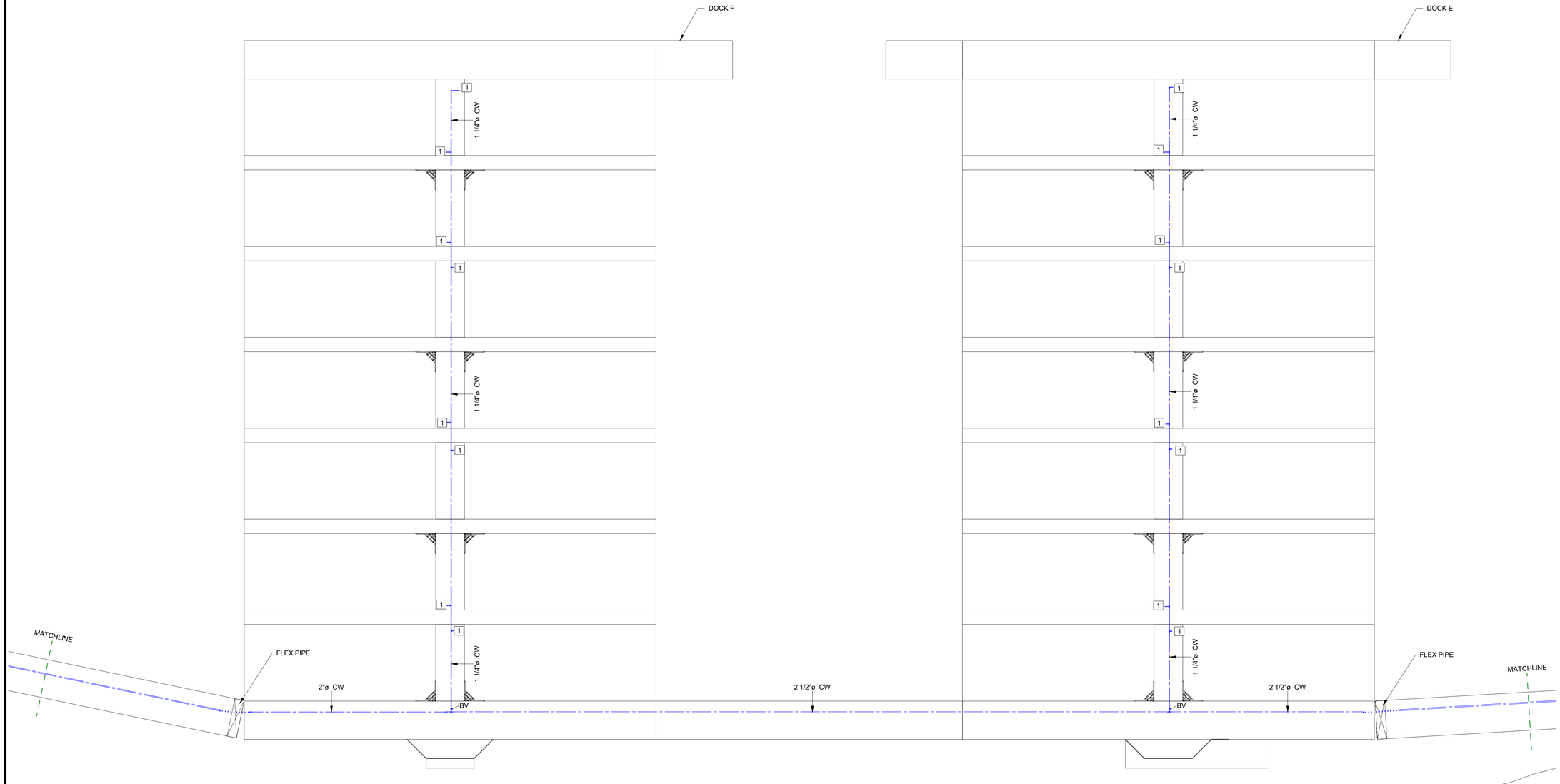
SHEET: P2.2
TITLE: DOMESTIC WATER PLAN DOCKS C & D
JOB NO: 24023
DATE: 05/30/2024
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PLUMBING NOTES

NUMBERED NOTES

1 ROUTE 3/4"Ø DOMESTIC COLD WATER TO PEDESTAL FIXTURE HB. COORDINATE EXACT LOCATION WITH OWNER.



1 P2.3 DOMESTIC WATER PLAN - DOCKS E & F

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

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Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: P2.3

TITLE: DOMESTIC WATER PLAN DOCKS E & F

JOB NO: 24023

DATE: 05/30/2024

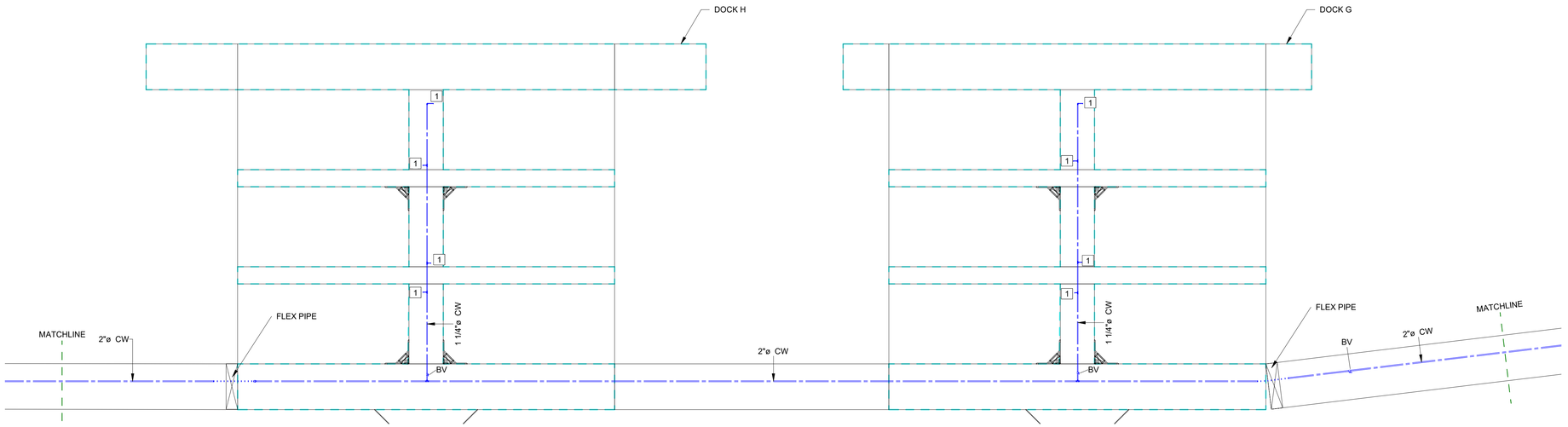
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PLUMBING NOTES

NUMBERED NOTES

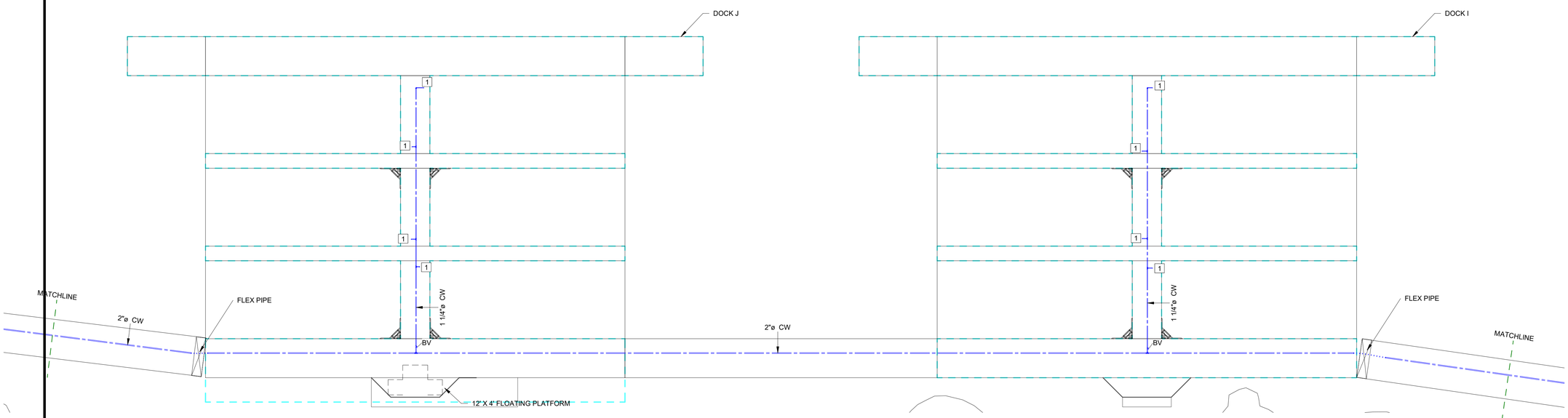
1 ROUTE 3/4"Ø DOMESTIC COLD WATER TO PEDESTAL FIXTURE HB. COORDINATE EXACT LOCATION WITH OWNER.



1 P2.4 DOMESTIC WATER PLAN - DOCKS G & H

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'



2 P2.4 DOMESTIC WATER PLAN - DOCKS I & J

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN
21400 THURMAN BEND ROAD SPICEWOOD, TX

OWNER: TRAVIS CLUB

ENGINEER: MAFFETT LOFTIS ENGINEERING, LLC
13 JEFFERSON AVE, STE 101
COCKEVILLE, TN 38501
TEL: (931) 528-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: P2.4

TITLE: DOMESTIC WATER PLAN DOCKS G, H, I, & J

DATE: 05/30/2024

JOB NO: 24023

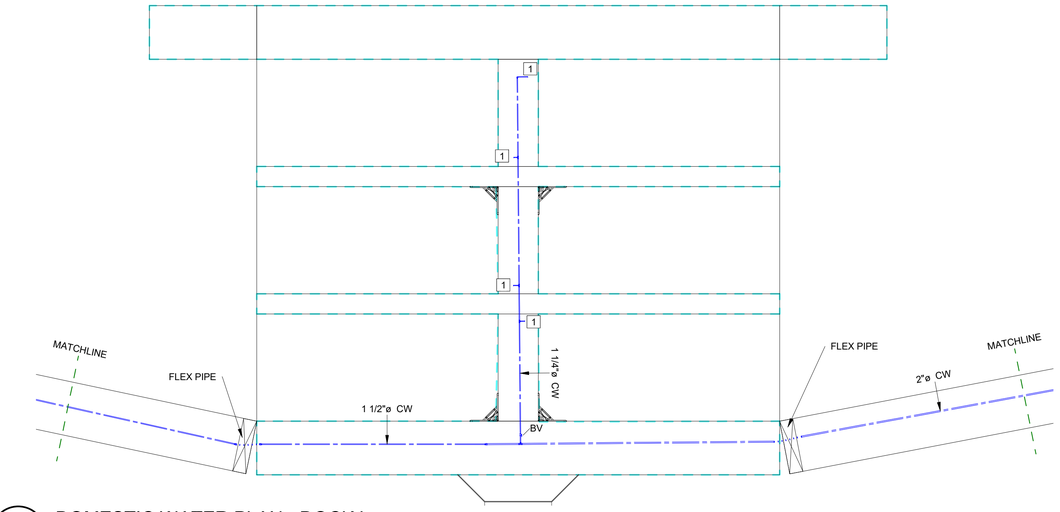
DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PLUMBING NOTES

NUMBERED NOTES

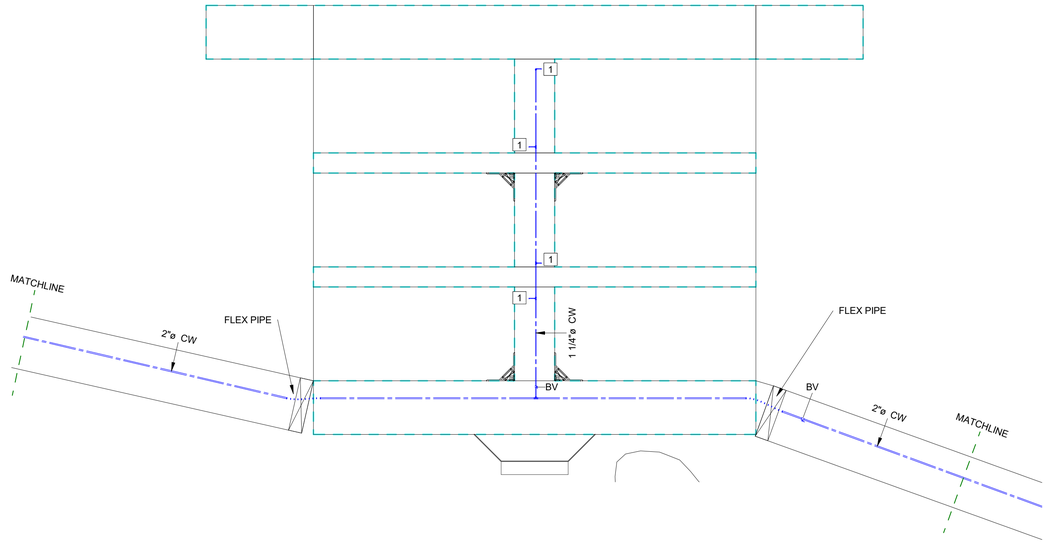
1 ROUTE 3/4"Ø DOMESTIC COLD WATER TO PEDESTAL FIXTURE HB. COORDINATE EXACT LOCATION WITH OWNER.



2 P2.5 DOMESTIC WATER PLAN - DOCK L

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

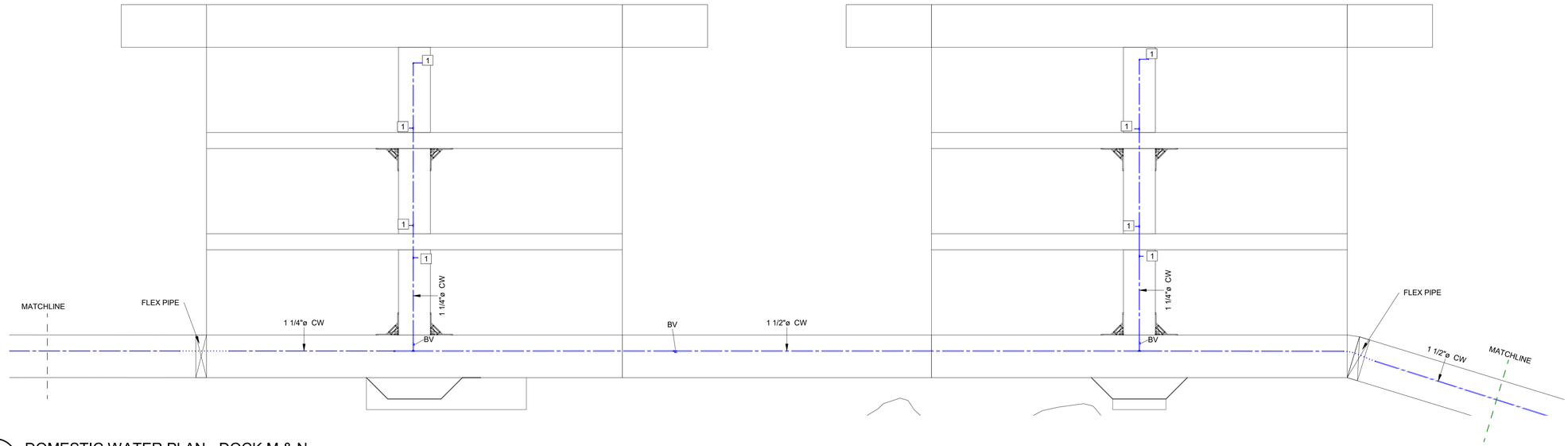
0' 5' 10' 20' 40'



1 P2.5 DOMESTIC WATER PLAN - DOCK K

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'



3 P2.5 DOMESTIC WATER PLAN - DOCK M & N

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
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COLORADO, TX 78601
TEL: (831) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: P2.5

TITLE: DOMESTIC WATER PLAN DOCKS K, L, M, & N

DATE: 05/30/2024

JOB NO: 24023

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

PLUMBING NOTES

NUMBERED NOTES

1 ROUTE 3/4"Ø DOMESTIC COLD WATER TO PEDESTAL FIXTURE HB. COORDINATE EXACT LOCATION WITH OWNER.

1 / P2.6 DOMESTIC WATER PLAN - DOCKS O & P

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 5' 10' 20' 40'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

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TEL: (931) 526-5143
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Revisions indicated w/ △

Revisions:		
No.	Date	Description

SHEET: P2.6

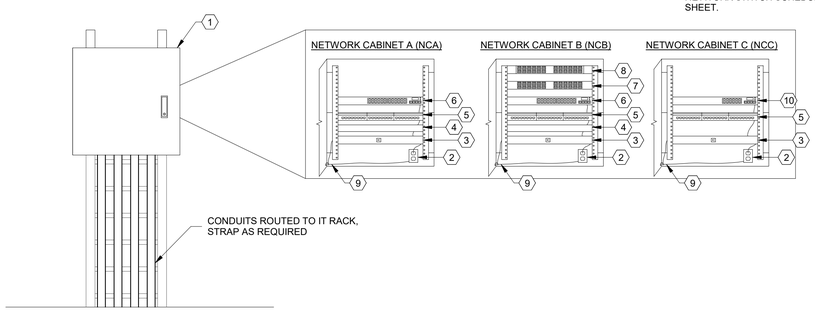
TITLE: DOMESTIC WATER PLAN
DOCKS O & P

DATE: 05/30/2024

JOB NO: 24023

DWN BY: Author

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED
PROFESSIONAL ENGINEER



3 T0.1 NETWORKING CABINET DTL

NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

1. NEMA 4X ENCLOSURE WITH LOCKABLE DOOR AND 12RU IT RACK. BOD: AZE RODW12U18 OR AN APPROVED EQUAL.
2. DIN-RAIL MOUNTED DUPLEX RECEPTACLE WITH HARD WIRED INPUT. COORDINATE WITH ENCLOSURE.
3. RACK-MOUNTED UPS. BOD: EATON 5P 650i R OR AN APPROVED EQUAL.
4. RACK-MOUNTED COOLING FAN TRAY. BOD: NAVEPOINT 00404178 OR AN APPROVED EQUAL.
5. 24 PORT COPPER PATCH PANEL. ALL CONNECTIONS SHALL BE SUITABLE FOR CAT5e RJ45 TERMINATIONS.
6. RACK-MOUNTED POE SWITCH SW-1. SEE NETWORK SWITCH SCHEDULE THIS SHEET.
7. 24 PORT FIBER PATCH PANEL. CONNECTIONS SHALL BE SUITABLE FOR LC DUPLEX FIBER TERMINATIONS.
8. RACK-MOUNTED FIBER CASSETTE. BOD: CORNING CCH-CS24-A9-P00RE OR AN APPROVED EQUAL.
9. INSTALL BONDING CONDUCTORS AS REQUIRED BY CODE. THE ENCLOSURE, ENCLOSURE DOOR, AND ALL EQUIPMENT WITHIN THE ENCLOSURE SHALL BE BONDED TOGETHER AS PRACTICAL.
10. RACK-MOUNTED POE SWITCH SW-2. SEE NETWORK SWITCH SCHEDULE THIS SHEET.

TELECOM SCOPE GUIDANCE & GENERAL NOTES

1. ELECTRICAL SCOPE: THE INFRASTRUCTURE PORTION OF THESE DOCUMENTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - A. TELECOM SPACES
     - a. BONDING OF CONDUITS ENTERING IT ENCLOSURES
   - B. EXTERIOR/UNDERGROUND PATHWAYS
     - a. EMPTY CONDUIT WITH PULL-WIRE
     - b. CONDUIT PULL BOXES
     - c. JUNCTION BOXES
     - d. BONDING AND GROUNDING CONDUIT AND RACEWAY TO GROUND BUS
2. CABLING SCOPE: THE CABLING PORTION OF THESE DOCUMENTS SHALL BE PROVIDED AND INSTALLED BY THE COMMUNICATIONS CABLING CONTRACTOR, AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - A. IT ENCLOSURES
     - a. TELECOM RELAY RACKS AND EQUIPMENT CABINETS/ENCLOSURES
     - b. PATCH PANELS
     - c. TERMINATION BLOCKS
     - d. VERTICAL AND HORIZONTAL CABLE MANAGEMENT
     - e. BONDING AND GROUNDING OF EQUIPMENT TO GROUND BUS (AS PROVIDED BY THE ELECTRICAL PORTION)
     - f. CABLE STRAIN RELIEF DEVICES
   - B. CABLING AND CONNECTIVITY
     - a. ALL COPPER, COAXIAL, AND FIBER CABLING PATCH CORDS
     - b. ALL COPPER, COAXIAL, AND FIBER CONNECTORS AND JACKS
     - c. ALL COPPER, COAXIAL, AND FIBER TERMINATIONS
     - d. EXTERIOR / OUTSIDE PLANT CABLING, INCLUDING TERMINATIONS AND TESTING
   - C. EXTERIOR PATHWAYS
     - a. SEALING OF TELECOM CONDUITS AND SLEEVES
   - D. WIRELESS ACCESS POINTS
     - a. WIRELESS ACCESS POINTS SHALL BE CONTRACTOR-FURNISHED, CONTRACTOR INSTALLED
     - b. ASSUME THAT WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH STANDARD MOUNTING ACCESSORIES ONLY. ANY SPECIALTY MOUNTING EQUIPMENT, FITTINGS, OR ACCESSORIES SHALL BE PROVIDED BY THE CONTRACTOR.
     - c. CONTRACTOR TO PROVIDE ALL PATCH CORDS, LABELING, AND AS-BUILT DOCUMENTATION.
     - d. CONTRACTOR TO SUBMIT FOR APPROVAL ANY DEVIATIONS FROM THE DETAILS INCLUDED IN THESE DESIGN DOCUMENTS.
   - E. SECURITY CAMERAS
     - a. CAMERAS SHALL BE CONTRACTOR-FURNISHED, CONTRACTOR INSTALLED
     - b. ASSUME THAT WIRELESS ACCESS POINTS SHALL BE PROVIDED WITH STANDARD MOUNTING ACCESSORIES ONLY. ANY SPECIALTY MOUNTING EQUIPMENT, FITTINGS, OR ACCESSORIES SHALL BE PROVIDED BY THE CONTRACTOR.
     - c. CONTRACTOR TO PROVIDE ALL PATCH CORDS, LABELING, AND AS-BUILT DOCUMENTATION.
     - d. CONTRACTOR TO SUBMIT FOR APPROVAL ANY DEVIATIONS FROM THE DETAILS INCLUDED IN THESE DESIGN DOCUMENTS.
3. THE CONTRACTOR RESPONSIBLE FOR THE ELECTRICAL PORTION SHALL PROVIDE AND INSTALL ALL INCIDENTAL EQUIPMENT AND MATERIALS RELATED TO THEIR WORK AND REQUIRED BY THE COMMUNICATIONS CABLING DOCUMENTS. FOR EXAMPLE, INSULATED BUSHINGS ON CONDUIT ENDS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. THE CONTRACTOR RESPONSIBLE FOR THE CABLING PORTION SHALL PROVIDE AND INSTALL ALL INCIDENTAL EQUIPMENT AND MATERIALS RELATED TO THEIR WORK AND REQUIRED BY THE COMMUNICATIONS CABLING DOCUMENTS. FOR EXAMPLE, CABLE TIES NECESSARY FOR CABLE MANAGEMENT SHALL BE PROVIDED BY THE CABLING CONTRACTOR.
5. FOR THE INFRASTRUCTURE PORTION, ANY AND ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY FIELD CONDITIONS SHALL BE RESOLVED THROUGH THE RFI (REQUEST FOR INFORMATION) PROCESS TO AVOID INADEQUATE OR INCORRECT FOR USE BY THE CABLING CONTRACTOR.
6. ALL EQUIPMENT, DEVICES, AND CABLING SHALL BE SUITABLE FOR THE INSTALLATION ENVIRONMENT. ALL OUTDOOR ENCLOSURES SHALL BE NEMA 4X.
7. CABLING INSTALLATION MEANS AND METHODS SHALL COMPLY WITH THE FOLLOWING:
   - a. BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL - 2020 EDITION
   - b. TIA 569-E-2-2019
   - c. TIA/EIA 568
   - d. TIA/EIA 606-C-2017
   - e. TIA 607
   - f. NFPA 70 - NATIONAL ELECTRIC CODE - 2020 EDITION
8. EACH STRUCTURED CABLING SYSTEM INSTALLER SHALL CURRENTLY BE A MANUFACTURER'S CERTIFIED SYSTEM INSTALLER IN GOOD STANDING WITH FIVE YEARS MINIMUM EXPERIENCE ON PROJECTS SIMILAR IN SCOPE TO THAT SHOWN ON THE DRAWINGS.
9. ALL GROUNDING AND BONDING SYSTEMS SHALL BE INSTALLED AS REQUIRED BY THE NEC AND OTHER APPLICABLE CODES AND STANDARDS.

TELECOM ABBREVIATIONS

AP	ACCESS POINT
BCKBD	BACKBOARD
BOD	BASIS OF DESIGN
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
CONN	CONNECTION
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EXIST	EXISTING
F	FIBER
FA	FIRE ALARM
FOC	FIBER OPTIC CABLING
G	GROUND
HC	HORIZONTAL CROSS-CONNECT
IDC	INSTALLATION DISPLACEMENT CONNECTOR
IDS	INTRUSION DETECTION SYSTEM
ISP	INTERNET SERVICE PROVIDER
JB	JUNCTION BOX
MM	MULTI-MODE
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OSP	OUTSIDE PLANT
PNL	PANEL
PR	PAIR
RR	RISER RATED
RU	RACK UNITS
SM	SINGLE MODE
SPEC	SPECIFICATION
ST	STRAND
SW	SWITCH
TGB	TELECOM GROUNDING BUS BAR
TMGB	TELECOM MAIN GROUNDING BUS BAR
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHERPROOF
XFMR	TRANSFORMER

TELECOM DEVICE LEGEND

COMMUNICATION DEVICES

WIRELESS ACCESS POINT - BOD: CISCO MERAKI MR76 OUTDOOR OR AN APPROVED EQUAL

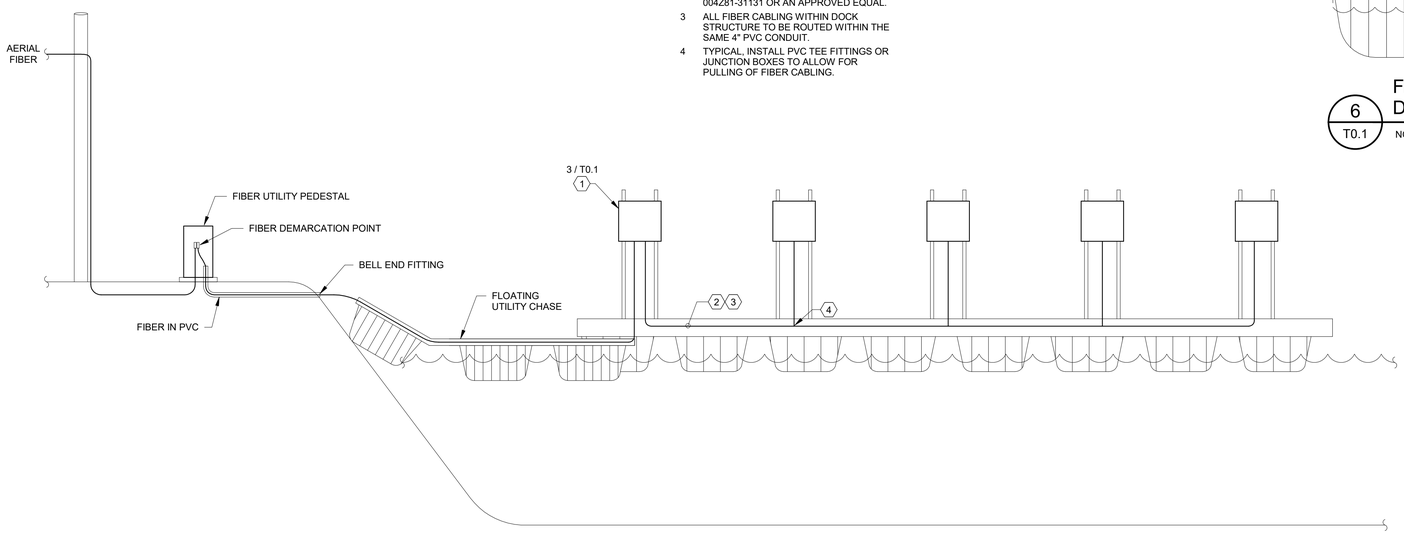
ELECTRICAL NOTES

NUMBERED NOTES

1. DOCK TRANSITION (HINGE POINT/FIFTH-WHEEL/GANGWAY/ETC.)
2. FLEXIBLE CONDUIT. UTILIZE TYPE LFNC FOR ALL FLEXIBLE CONDUITS SIZED 2" AND SMALLER. FOR ALL FLEXIBLE CONDUITS SIZED ABOVE 2", UTILIZE TYPE LFMC.
3. PVC CONDUIT.
4. GALVANIZED TWO-HOLE STRAPS BOLTED TO DOCK STRUCTURE, TYPICAL.
5. DECK.
6. COVER PLATE.
7. DOCK STRUCTURE.
8. FLOTATION.
9. WATER LINE.
10. PVC TO FLEXIBLE CONDUIT CONNECTION.
11. CONDUIT SHALL MAINTAIN SEPARATION FROM WATER LINE. COORDINATE SLACK TO SATISFY REQUIREMENTS FOR TRANSITION.

GENERAL NOTES

- A. INSTALLATION OF CABLE SHALL BE AS CLOSE TO CENTER OF DOCK (e.g. HINGE POINT) AS PRACTICAL AND SHALL BE INSTALLED SO AS TO NOT ALLOW PHYSICAL DAMAGE.
- B. ALL TRANSITION LOCATIONS SHALL IMPLEMENT WIRING METHODS AS SHOWN IN THIS DETAIL UNLESS OTHERWISE NOTED ON PLANS.



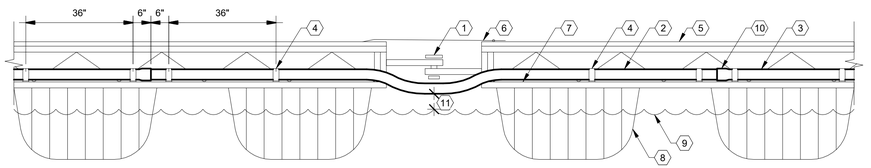
1 T0.1 TELECOMMUNICATIONS RISER DIAGRAM

NOT TO SCALE

ELECTRICAL NOTES

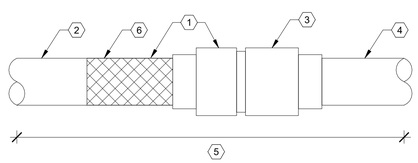
NUMBERED NOTES

1. NEMA 4X COMMUNICATIONS CABINET MOUNTED TO STAINLESS STEEL UNISTRUT. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION. SEE ELECTRICAL PLANS FOR MOUNTING DETAILS.
2. TYPICAL, (1) 4 STRAND OS2 SM FIBER CABLE RUN WITHIN PVC THROUGH DOCK STRUCTURE TO EACH NETWORKING CABONET. BASIS OF DESIGN: CORNING 004Z81-31131 OR AN APPROVED EQUAL.
3. ALL FIBER CABLING WITHIN DOCK STRUCTURE TO BE ROUTED WITHIN THE SAME 4" PVC CONDUIT.
4. TYPICAL, INSTALL PVC TEE FITTINGS OR JUNCTION BOXES TO ALLOW FOR PULLING OF FIBER CABLING.



6 T0.1 FLEX CONDUIT DOCK TRANSITION DTL

NOT TO SCALE



2 T0.1 PVC TO FLEX CONDUIT CONNECTION DTL

NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

1. PVC FITTING WITH STAINLESS STEEL WIRE MESH STRAIN RELIEF, WET-LISTED. SHALL BE USED AT ALL CONNECTION POINTS.
2. FLEXIBLE CONDUIT WITH STRAIN RELIEF. UTILIZE TYPE LFNC FOR ALL FLEXIBLE CONDUITS SIZED 2" AND SMALLER. FOR ALL FLEXIBLE CONDUITS SIZED ABOVE 2", UTILIZE TYPE LFMC.
3. PVC FITTING AS REQUIRED.
4. PVC CONDUIT.
5. FINAL INSTALLATION OF CONDUITS ACROSS FITTINGS SHALL BE STRAIGHT SO THERE IS NO BEND AT CONNECTION POINT.
6. STAINLESS STEEL KELLEMS CABLE GRIP - SIZE FOR WIRE DIAMETER.

NETWORK SWITCH SCHEDULE

LABEL	MANUFACTURER (BASIS OF DESIGN)	PART #	PoE POWER (W)	NOTES
SW-1	CISCO	C9200L-24P-4G	600	
SW-2	CISCO	C9200CX-12P-2XGH	240	

NETWORK CABLING LEGEND

TYPE	CONNECTION	SHIELDING	CABLE COLOR	BONDED PAIR	MANUFACTURERS
CAT5e	RJ-45	UTP	BLACK	Y	BELDEN, CORNING, C2G, OR APPROVED EQUAL
OS2 SM FIBER	LC (SFP MODULE)	N/A	YELLOW	N/A	BELDEN, CORNING, C2G, OR APPROVED EQUAL

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

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Revisions indicated w/ △

Revisions: No.	Date	Description

SHEET: T0.1

TITLE: TELECOMMUNICATIONS LEGENDS, SCHEDULES, DETAILS, AND NOTES

JOB NO: 24023 DATE: 05/30/2024

DWN BY: AJG

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

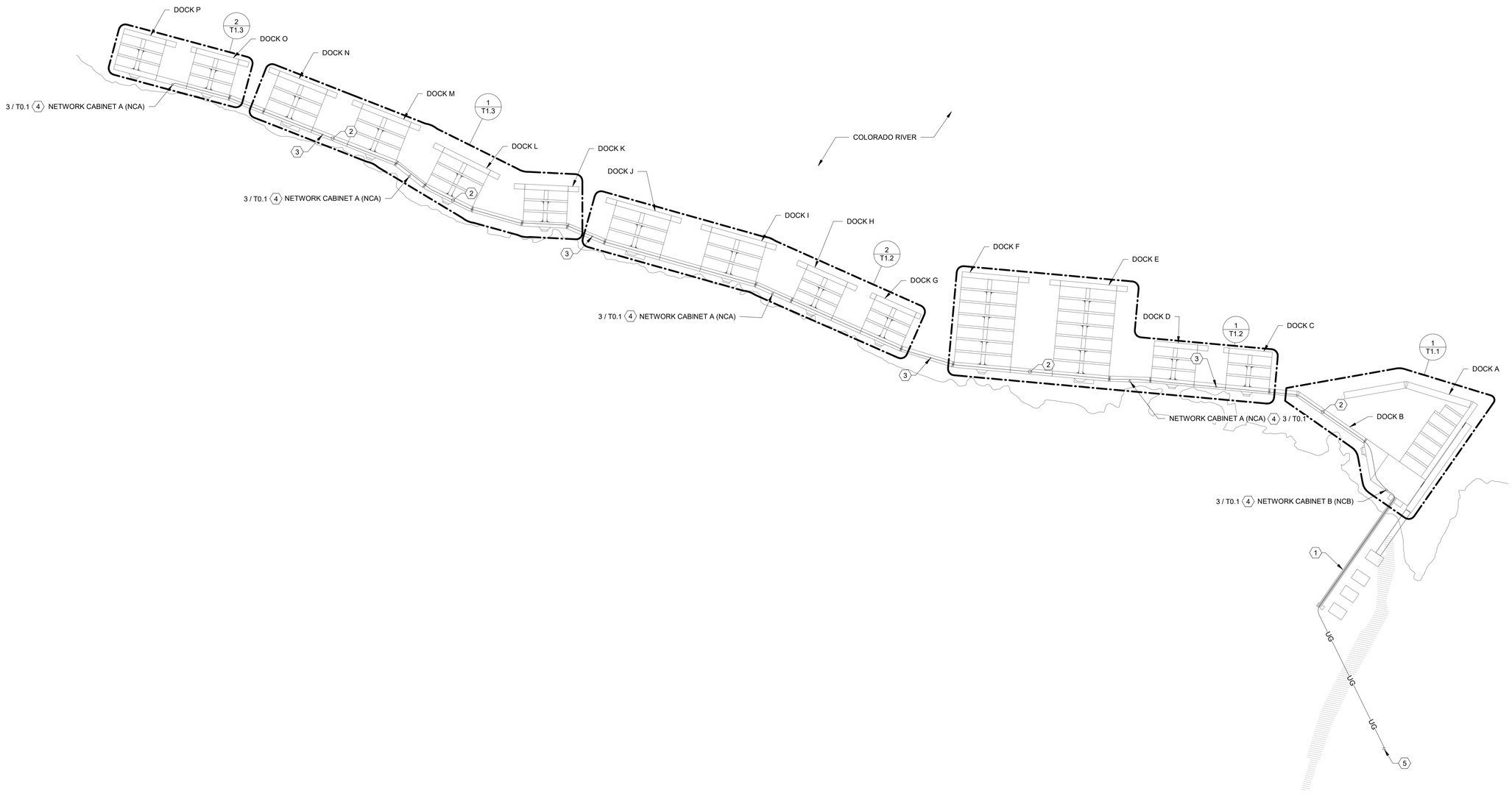
ELECTRICAL NOTES

NUMBERED NOTES

1 FLOATING UTILITY CHASE. COORDINATE WITH PLUMBING UTILITIES.
2 FIBER CABLING ROUTED WITHIN DOCK STRUCTURE.
3 INSTALL PULLBOX FOR FIBER CABLING.
4 SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
5 UTILITY FIBER PEDESTAL. COORDINATE EXACT LOCATION WITH ISP.

GENERAL NOTES

A SEE TELECOMMUNICATIONS RISER DIAGRAM FOR ADDITIONAL INFORMATION.



1 / T1.0 TELECOMMUNICATIONS SITE PLAN

SCALE: 1" = 80'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 40' 80' 160' 320'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions:

No.	Date	Description

SHEET: T1.0

TITLE: TELECOMMUNICATIONS SITE PLAN

JOB NO: 24023 DATE: 05/30/2024

DWN BY: AJG

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

ELECTRICAL NOTES

NUMBERED NOTES

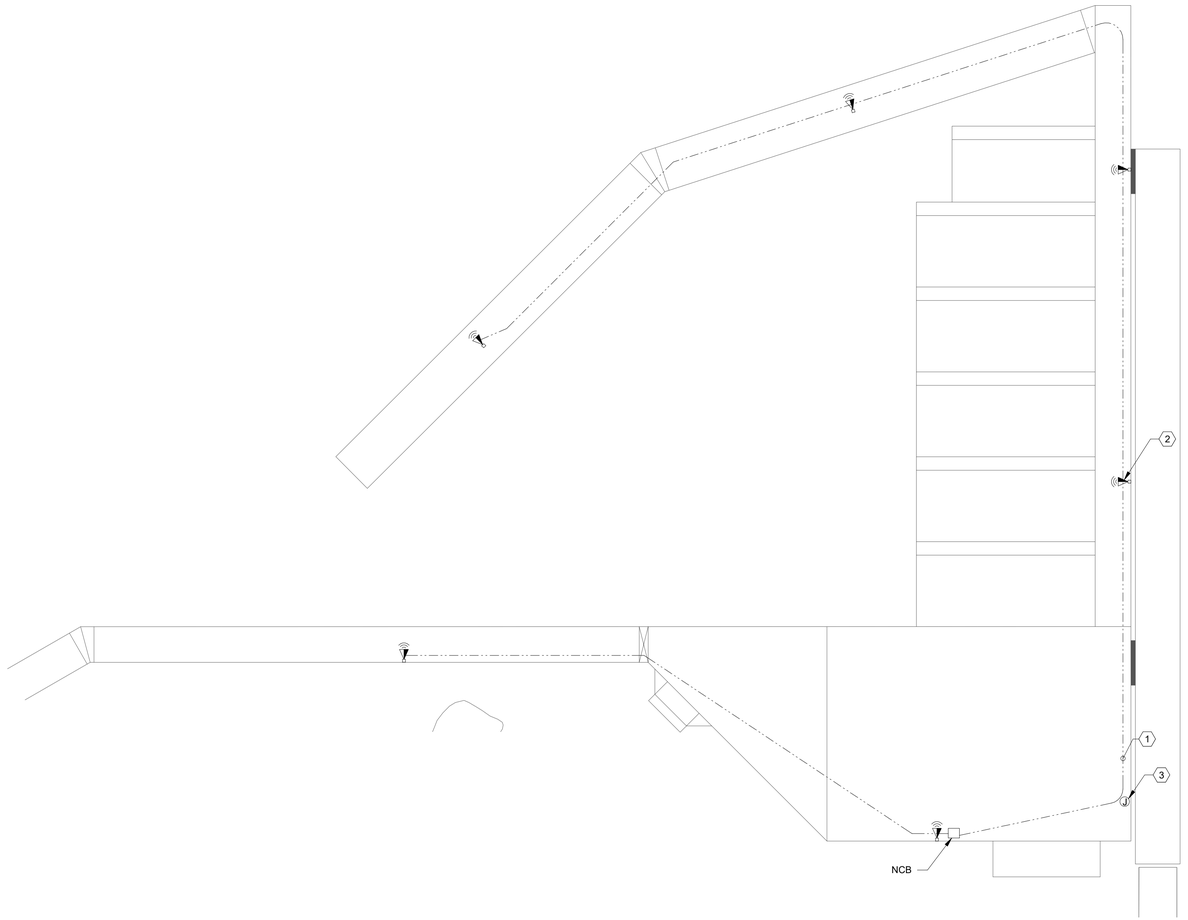
1 TYPICAL, CAT5e CABLING ROUTED IN (1) 2" PVC CONDUIT TO DEVICES AS INDICATED.

2 TYPICAL, WI-FI ACCESS POINT MOUNTED 9'-0" ABOVE DECK ON POLE USING STAINLESS STEEL HARDWARE. POLE BOD: CAMERA POLES CP10SA04 OR APPROVED EQUAL.

3 ROUTE (1) CAT5e CABLE TO ENTRY GATE FOR ACCESS CONTROL SYSTEM. COORDINATE EXACT LOCATION WITH OWNER. ACCESS CONTROL EQUIPMENT BY OTHERS.

GENERAL NOTES

A INSTALL FLEXIBLE CONDUIT AT ALL DOCK HINGES, FIFTH-WHEELS, TRANSITIONS, ETC.



1 / T1.1 TELECOMMUNICATIONS PLAN - DOCKS A & B

SCALE: 1/16" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 8' 16' 32' 64'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
15 JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions:

No.	Date	Description

SHEET: T1.1

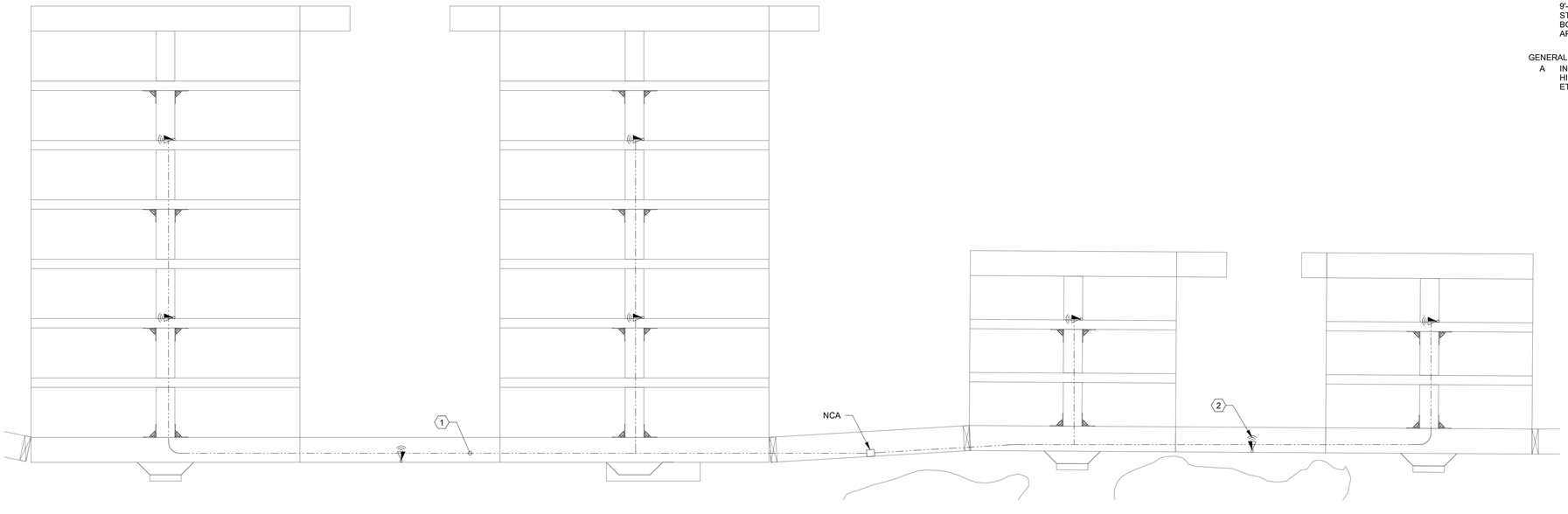
TITLE: TELECOMMUNICATIONS PLAN DOCKS A & B

DATE: 05/30/2024

JOB NO: 24023

DWN BY: AJG

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

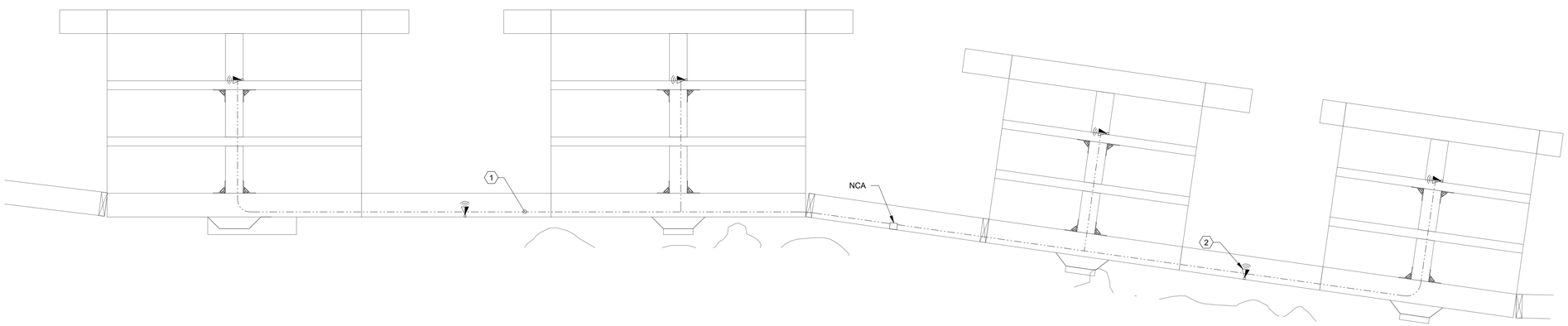


1 TELECOMMUNICATIONS PLAN - DOCKS C, D, E, & F

T1.2

SCALE: 1" = 20'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 10' 20' 40' 80'



2 TELECOMMUNICATIONS PLAN - DOCKS G, H, I, & J

T1.2

SCALE: 1" = 20'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 10' 20' 40' 80'

ELECTRICAL NOTES

NUMBERED NOTES

1 TYPICAL, CAT5e CABLING ROUTED IN (1) 2" PVC CONDUIT TO DEVICES AS INDICATED.

2 TYPICAL, WI-FI ACCESS POINT MOUNTED 9'-0" ABOVE DECK ON POLE USING STAINLESS STEEL HARDWARE. POLE BOD: CAMERA POLES CP10SA04 OR APPROVED EQUAL.

GENERAL NOTES

A INSTALL FLEXIBLE CONDUIT AT ALL DOCK HINGES, FIFTH-WHEELS, TRANSITIONS, ETC.

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

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1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
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Revisions:

No.	Date	Description

SHEET: T1.2

TITLE: TELECOMMUNICATIONS PLANS DOCKS C THRU J

JOB NO: 24023

DATE: 05/30/2024

DWN BY: AJG

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER

(#) ELECTRICAL NOTES

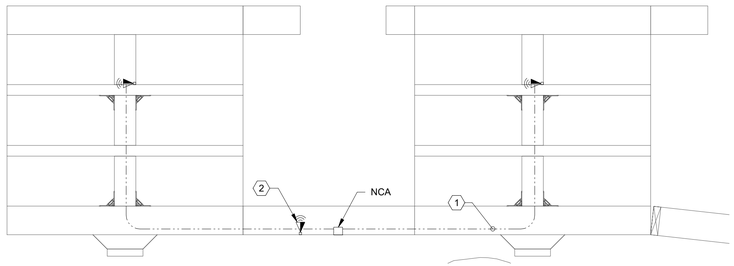
NUMBERED NOTES

1 TYPICAL, CAT5e CABLING ROUTED IN (1) 2" PVC CONDUIT TO DEVICES AS INDICATED.

2 TYPICAL, WI-FI ACCESS POINT MOUNTED 9'-0" ABOVE DECK ON POLE USING STAINLESS STEEL HARDWARE. POLE BOD: CAMERA POLES CP10SA04 OR APPROVED EQUAL.

GENERAL NOTES

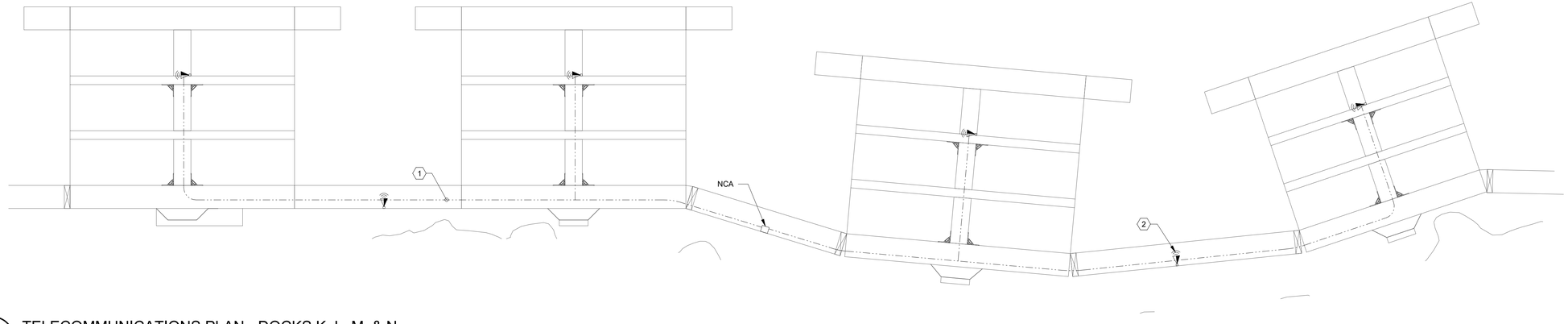
A INSTALL FLEXIBLE CONDUIT AT ALL DOCK HINGES, FIFTH-WHEELS, TRANSITIONS, ETC.



2 / T1.3 TELECOMMUNICATIONS PLAN - DOCKS O & P

SCALE: 1" = 20'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 10' 20' 40' 80'



1 / T1.3 TELECOMMUNICATIONS PLAN - DOCKS K, L, M, & N

SCALE: 1" = 20'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 10' 20' 40' 80'

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
1 S JEFFERSON AVE, STE 101
COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

Revisions indicated w/ △

Revisions: No.	Date	Description

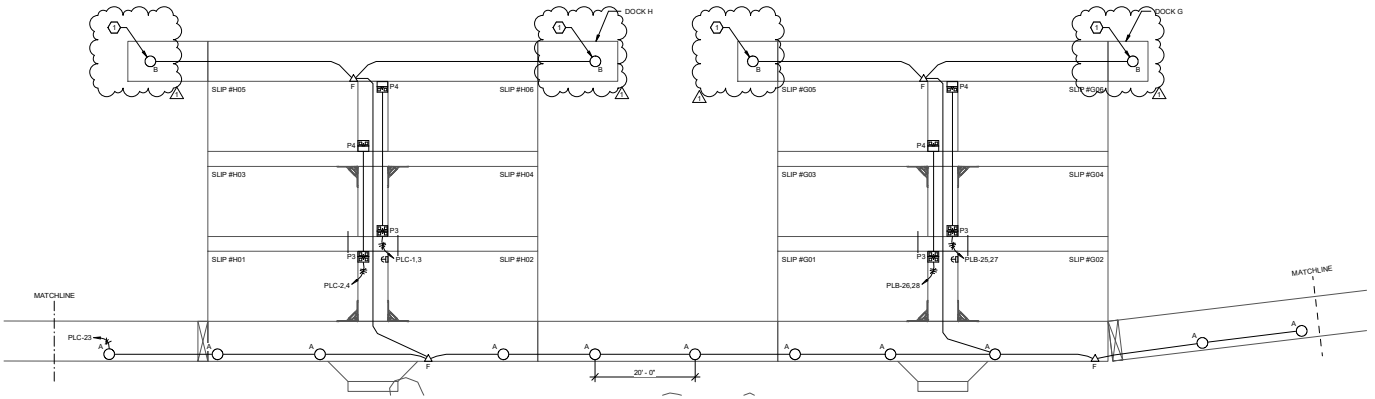
SHEET: T1.3

TITLE: TELECOMMUNICATIONS PLANS DOCKS K THRU P

JOB NO: 24023 DATE: 05/30/2024

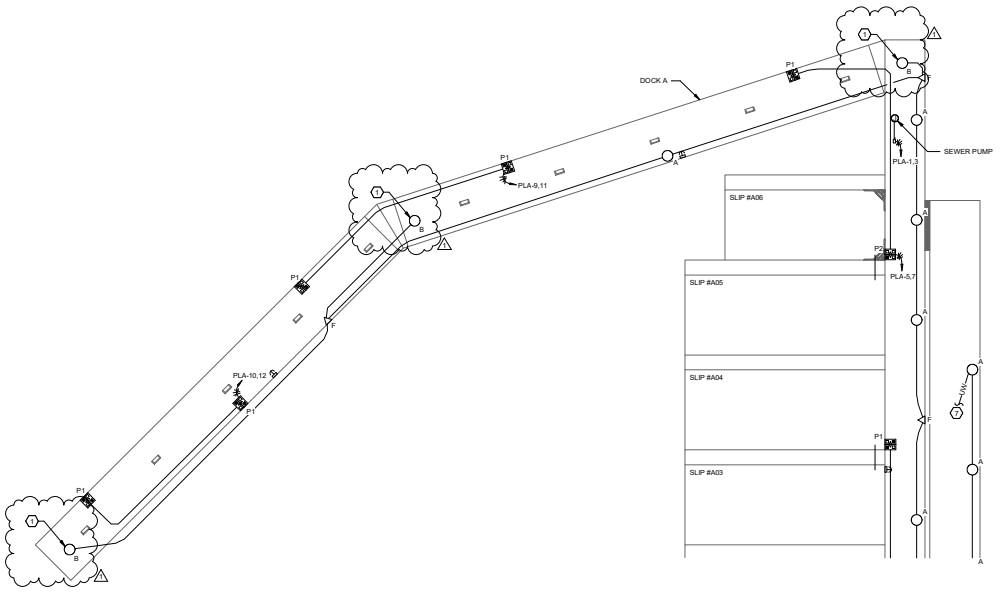
DWN BY: AJG

STATE OF TEXAS
GARY DALE LOFTIS
05/30/2024
136175
LICENSED PROFESSIONAL ENGINEER



1 E0 TYPICAL DOCK WITH NAVIGATIONAL LIGHTING

NOT TO SCALE



2 E0 DOCK A WITH NAVIGATIONAL LIGHTING

NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

1 TYP. HYPOWER LIGHTCENTER WITH AMBER LENS.

GENERAL NOTES

A TYPE B LIGHTCENTER SHALL BE INSTALLED AT THE END OF EACH T-HEAD DOCK AND DOCK A AS SHOWN.

MARINA UTILITIES FOR TRAVIS CLUB AUSTIN

21400 THURMAN BEND ROAD
SPICEWOOD, TX

OWNER:

TRAVIS CLUB

ENGINEER:

MAFFETT LOFTIS ENGINEERING, LLC
13 JEFFERSON AVE, SUITE 101
CONROE, TEXAS 77301
TEL: (931) 526-5143
www.maffettloftis.com

Revisions:		Revisions indicated w/ △
No.	Date:	Description
1	11/08/24	WAY LIGHTING

SHEET: E0

TITLE: NAVIGATIONAL LIGHTING PLANS

DATE: 11/08/2024

JOB NO: 24023

DWN BY: CWA

146 Duchaine Blvd.
New Bedford, MA 02745
Tel. 508/995-9711, Fax # 508/995-5021
e-Mail: pumps@edsonint.com

28621 / 28623 / 28624
Platinum Series
Peristaltic Pump


Show with optional controls.

General Description:

The 2862 is Edson premium peristaltic pump. It combines ease of maintenance with power and reliability. The pump is available in many configurations.**

Performance Features:

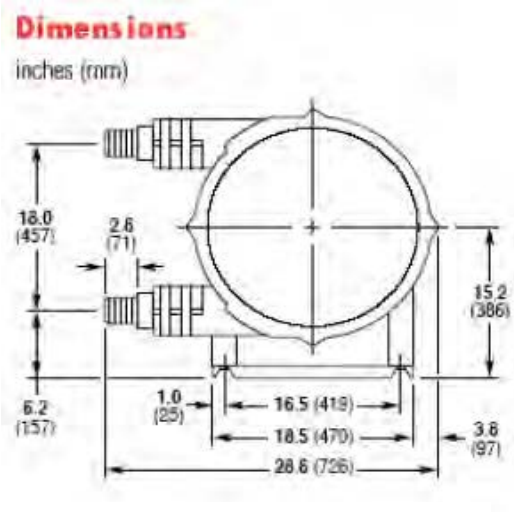
- **Up to 43 GPM**
- **140' Discharge Pressure**
- **28' Suction Lift**

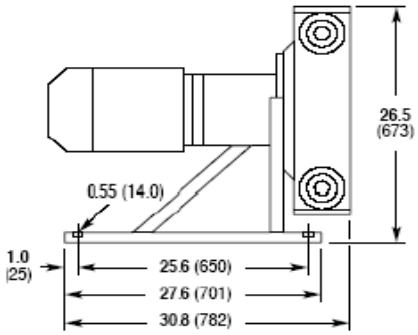
Construction:

- **Marine Grade Aluminum Castings**
- **Stainless Steel Hardware**
- **2" NPT Connections**
- **3hp Motor TEFC (5hp Available)**
- **1 ph or 3ph versions available**
- **Many Voltage, Phase Options Available**
- **Epoxy Painted Exterior**
- **Natural Rubber Internal Hose**
- **Edson's Easy Change Internal Hose**

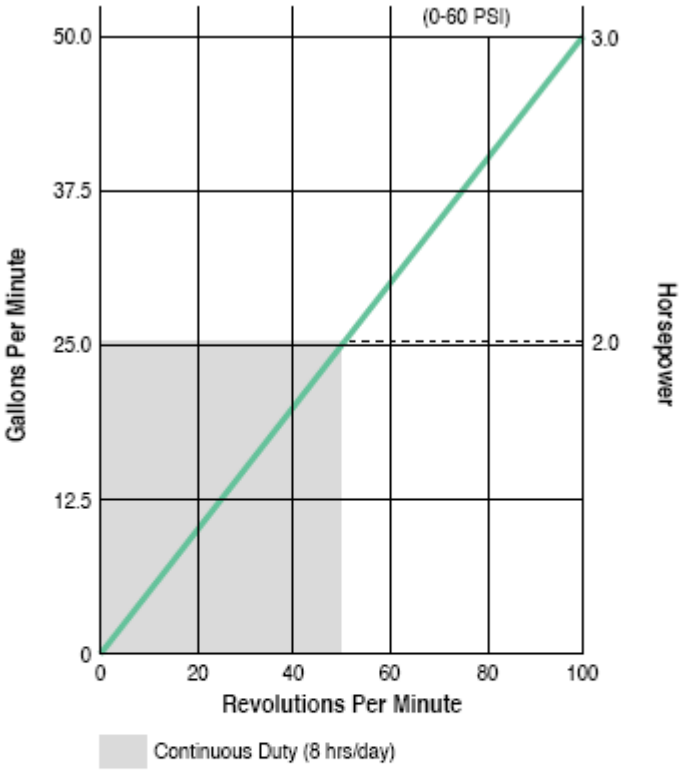
Options Available:

- **Internal Leak Detector**
- **3 or 5 hp TEFC Motor**
- **Explosion Proof Motor**
- **Variable Frequency Drive**
- **Low Voltage/ Timer Controls**
- **RF Radio Controls**
- **Many more options shown on accessories page**





EDSON® PUMPS



Specifications

Discharge Pressure	60 psi (4.1 bar) max
Suction Lift	24 ft (7.3 m)
Suction Pressure (max)	25 psi (1.7 bar)
Horsepower (max)[1]	3
Hose Size	45 x 75 x 1455 mm
Displacement	0.51 gal/rev
Weight (pump only)	185 lbs (84 kg)
Weight with Drive	275 lbs (125 kg)

[1] Pumps are shaft driven and require a gearbox and motor. See Ordering Information for details.

Fluid Characteristics

Viscosity	15,000 cps (max)
Liquid Temperature	180°F (82° C) (max)
Solid Size	1/4 inch (6.3 mm) (max)
Fiber Length	2-3/8 inch (60 mm) (max)

	Drive Flow GPM	Gear Ratio	Pump RPM	Max PSI
	3Ø, 1-1/2 BHP TEFC, 230-460 VAC, 60 H			
	4:1 Constant Torque Speed Range			
B2	7.1	121:1	14	45(60)
D2	10.5	82:1	21	45(60)
	3Ø, 2 BHP TEFC, 230-460 VAC, 60 Hz			
	4:1 Constant Torque Speed Range			
F2	15.3	58:1	30	45(60)
H2	20.4	43:1	40	45(60)
J2	25.8	33:1	51	40(55)
	3Ø, 3 BHP TEFC, 230-460 VAC, 60 Hz			
	3:1 Constant Torque Speed Range			
L2	40.5	21:1	80	35(45)

OPTIONS

Stainless Steel Cover
Order No. 26151

Available in 304 or 316 stailess steel this modular cover comes complete with hour meter and start/stop controls. It measures 34" x 34" x 36"(86.36cm x 86.36cm x 91.44cm). Shown here with optional hose rack and fitting rack.

Hose Stands
Order Nos. 260

White Powder Coated Aluminum or Stainless, for pump out stations setup remote from the pump. They can be equipped with start/stop buttons or token operated starter. All versions come with Operation Instruction Sign and (4) 1/2" X 7" Aluminum Hex Head Mounting Bolts.

#26030 Standard *#26035 On/Off* *#26040 Token* *#26011 Stainless Steel*

Control Panel Timer
Order No. 161-A-2324
Control Panel Installed On Pump Unit.
Order No. 161-K-0006B

High inpact resistant NEMA4X rated enclosure comes complet with contactor, programable run timer and step down transformer for low 24 volt power at the start/stop controls. It includes terminal connections for the remote start/stops.

Stainless Deck Fitting Rack
Order No. 26045

Stainless steel wire form designed to organize loose deck adapters. The rack holds up to four fittings most often used in performing pump outs. No need to keep a bucket or box for your adapters. The rack mounts vertically with predrilled feet that makes it simple to mount on a pole, wall, hose stand or the pump cover.

Recessed Hydrant Containers
Order Nos. 265

Used to hide pump out hydrants out of the way, below the dock. Available in aluminum or heavy duty plastic. Both come with a flush aluminum cover.

Pumpout Hydrants
Order Nos. 270

Used for connecting a pump out hose to a central suction line remote from the pumping unit.

#270PV-150/200

#270BR-150

Hose Rack
Order No. 26000

Mounts to any vertical surface including enclosures. Holds up to 75 ft of 1 1/2" hose.

Optional Length Hose Assemblies Up To 100 ft In Length

Edson can provide any continuous length pumpout hose from 5 ft to 100ft. What ever is required for the installation

OTHER PUMP OPTIONS

Peristaltic Pump Units - Diaphragm Pump Units

Need a pump with greater discharge capability or just more power consider the Edson peristaltic pump units. Available from 3/4Hp to 5Hp.

3/4 HP Diaphragm
Order No.120ELB-40-200

Double Diaphragm
Order No. 25200

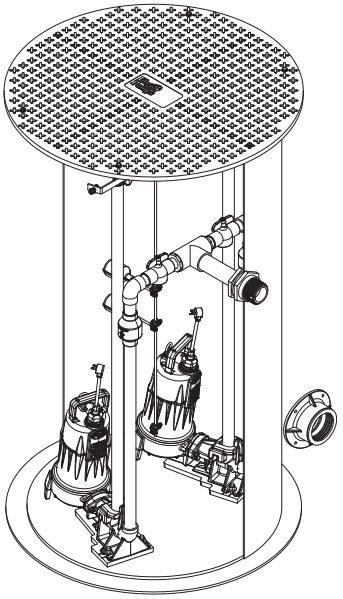
3/4 HP Peristaltic
Order No. 286EP-.75HP

2 HP Peristaltic
Order No. 286EP-.2HP

EDSON PUMPS
146 Duchaine Blvd., New Bedford, MA 02745
www.edsonpumps.com
Tel. 508-995-9711 Fax 508-995-5021 pumps@edsonintl.com

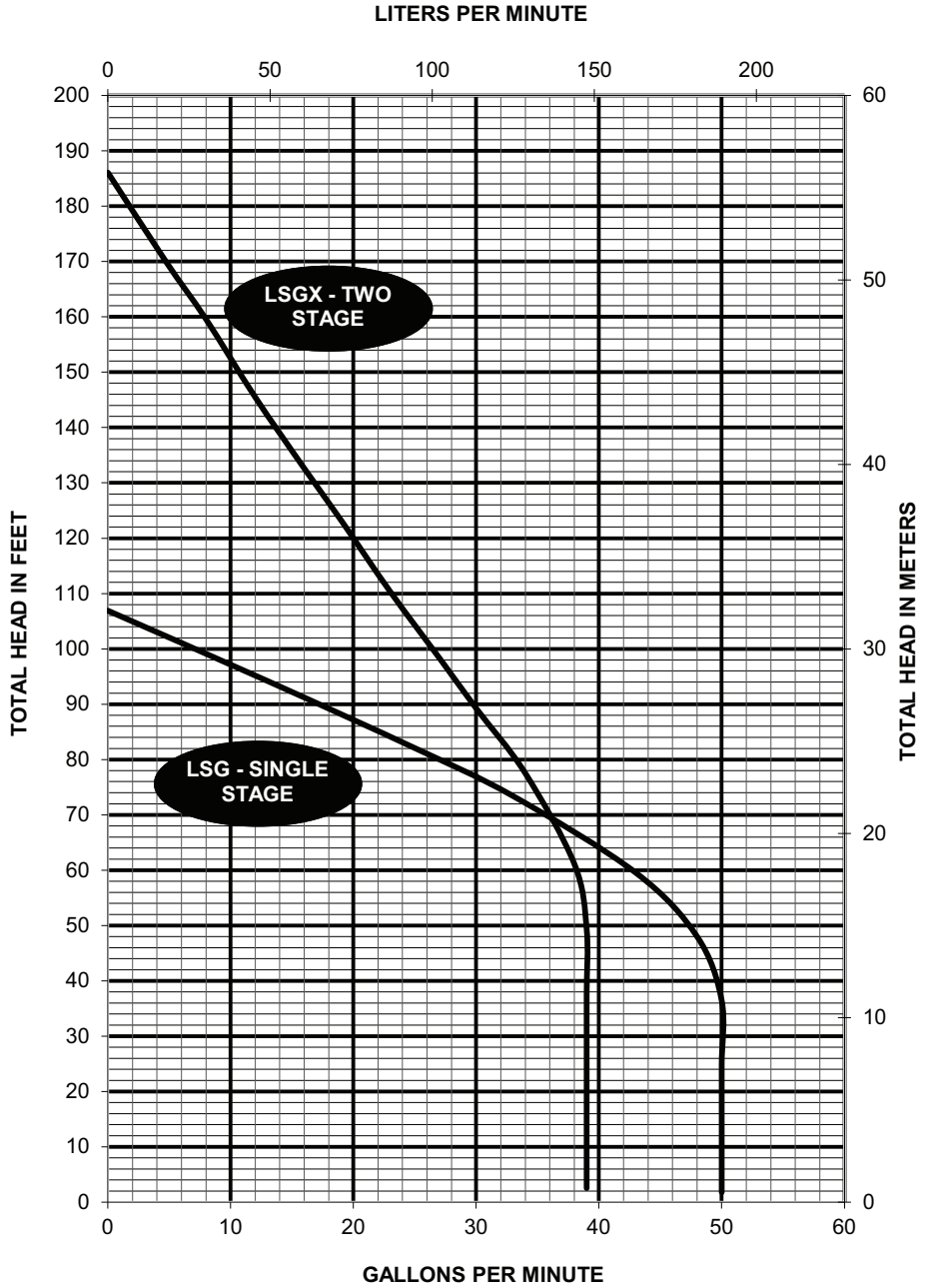
Liberty Pumps®
A Family and Employee Owned Company

Pump **Specification**



D3672LSG, D3672LSGX

Omnivore® 2 HP Duplex Grinder Packages



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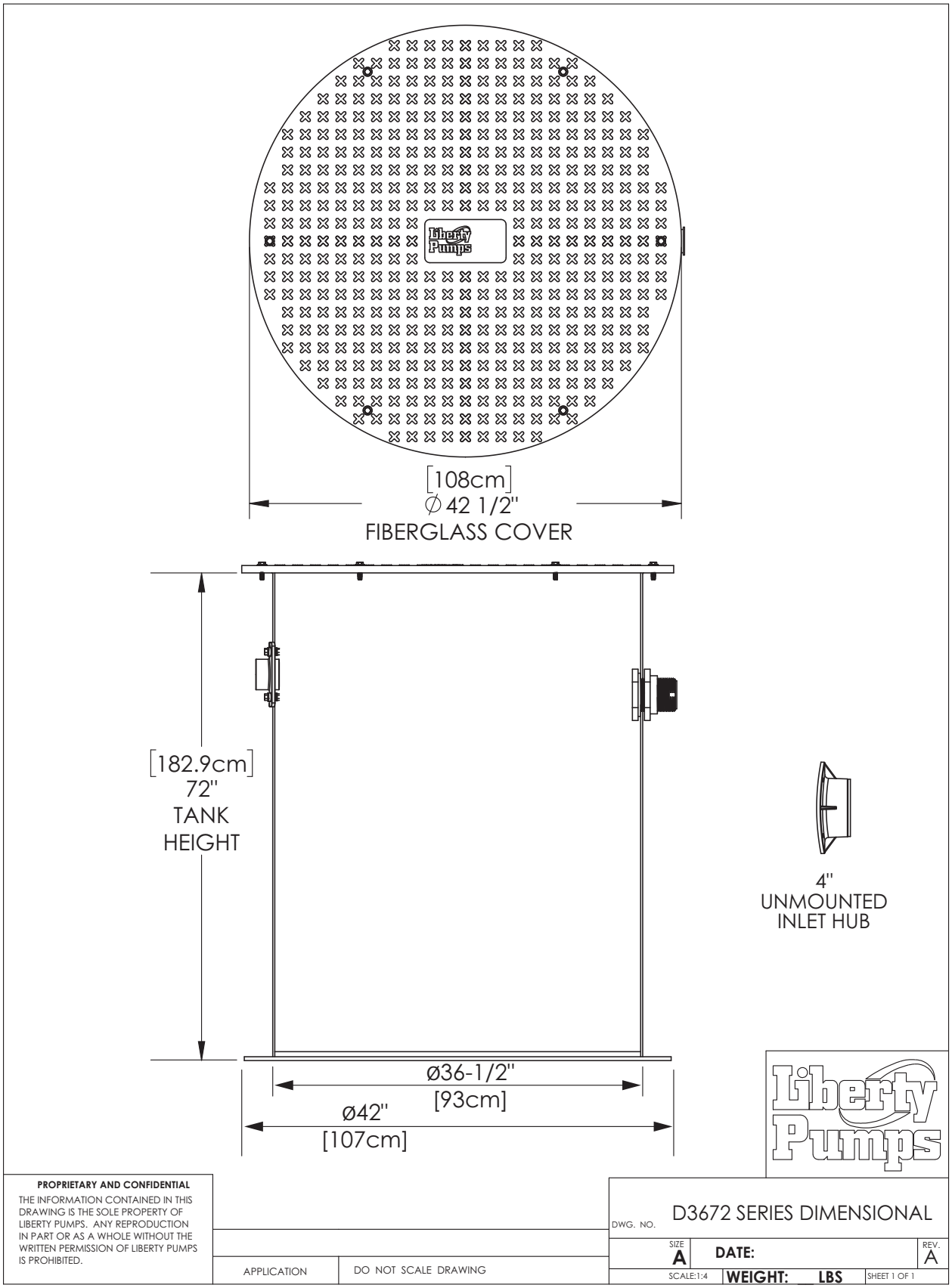
7000 Apple Tree Avenue Bergen NY 14416 ■ ***Phone*** *800-543-2550* ■ ***Fax*** *585-494-1839* ■ ***Email*** *Liberty@LibertyPumps.com* ■ ***Web*** *www.LibertyPumps.com*

D3672LSG/LSGX-Series Dimensional Data



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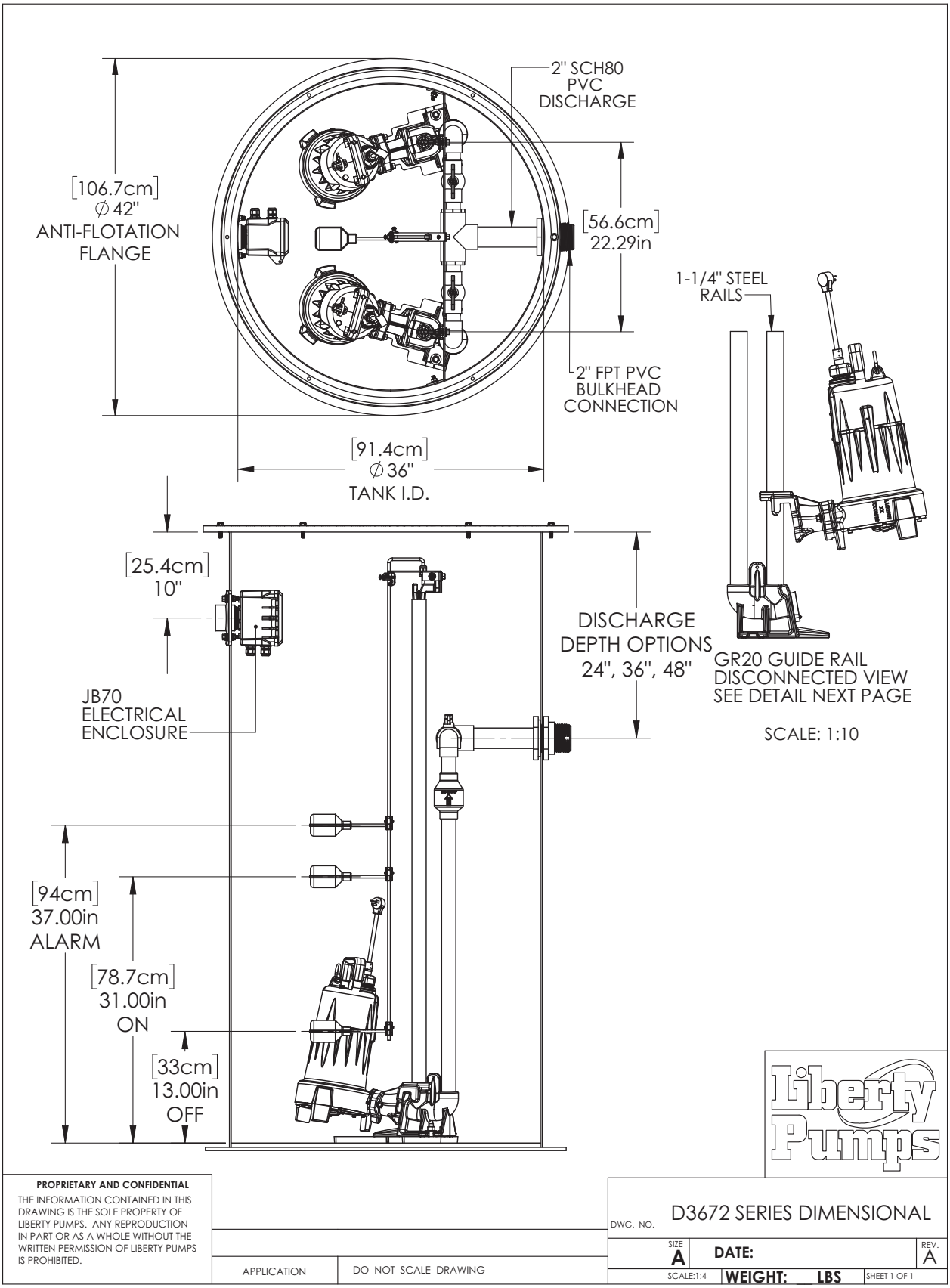
D3672LSG/LSGX-Series Dimensional Data



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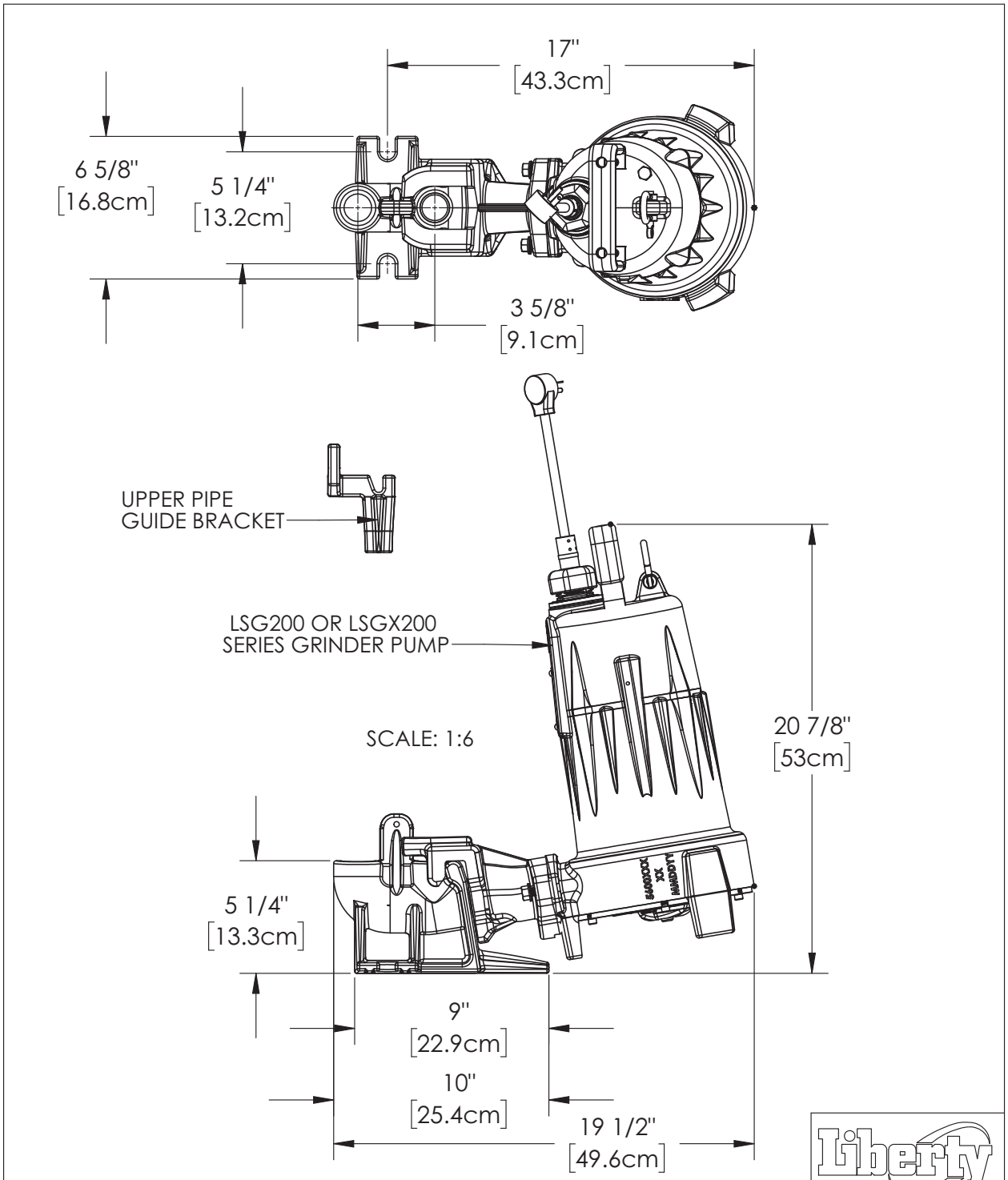
D3672LSG/LSGX-Series Dimensional Data



GR20 GUIDE RAIL BASE

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APPLICATION | DO NOT SCALE DRAWING

DWG. NO. D3600 SERIES DIMENSIONAL

SIZE A | **DATE:** | REV. A

SCALE:1:4 | **WEIGHT: __ LBS** | SHEET 1 OF 1

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D3672LSG/LSGX-Series Electrical Data

MODEL[1]	HP	VOLTAGE	PHASE	SF	FULL LOAD AMPS[2]	LOCKED ROTOR AMPS[2]	THERMAL OVERLOAD TEMP	STATOR WINDING CLASS	CORD LENGTH [FT]	PUMP DISCHARGE	STANDARD CONTROL PANEL[3]
D3672LSG202	2	208/230	1	1.0	15	53	105°C / 221°F	B	25	1-1/4" NPT	AE24H=3
D3672LSG202-C	2	208/230	1	1.0	15	53	135°C / 275°F	B	35	1-1/4" NPT	AE24HC=3
D3672LSG203	2	208/230	3	1.0	10.6	61	N/A	B	25	1-1/4" NPT	AE34=3-511
D3672LSG204	2	440–480	3	1.0	5.3	31	N/A	B	25	1-1/4" NPT	AE34=3-171
D3672LSG205	2	575	3	1.0	4.9	31	N/A	B	25	1-1/4" NPT	AE54=3-161
D3672LSGX202	2	208–230	1	1.0	15	53	135°C / 275°F	B	25	1-1/4" NPT	AE24H=3
D3672LSGX202-C	2	208–230	1	1.0	15	53	135°C / 275°F	B	35	1-1/4" NPT	AE24HC=3
D3672LSGX203	2	208/230	3	1.0	10.6	61	N/A	B	25	1-1/4" NPT	AE34=3-511
D3672LSGX204	2	440–480	3	1.0	5.3	31	N/A	B	25	1-1/4" NPT	AE34=3-171
D3672LSGX205	2	575	3	1.0	4.9	31	N/A	B	25	1-1/4" NPT	AE54=3-161

1 Add **–IP** to the model number **for IP-Series™** panel upgrade.
2 Amperage values are for ***each*** pump.
3 Electrical service shall be sized to support all pumps running simultaneously.

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TANK	WOUND FIBERGLASS WITH ANTI-FLOTATION FLANGE STANDARD – FIBERGLASS COVER OPTIONAL – STEEL COVER
CAPACITY	317 GALLON TOTAL BASIN VOLUME (PUMP CYCLE = 88 GALLONS)
GUIDE RAIL	STANDARD – SCHEDULE 40 GALVANIZED OPTIONAL – SCHEDULE 40 STAINLESS STEEL
GUIDE RAIL BASE / DISCONNECT (GR20)	CAST IRON
INLET HUB	4" WITH FLANGE GASKET AND PIPE SEAL
DISCHARGE PIPING	SCHEDULE 80 PVC
CONTROL PANEL	NEMA 4X DUPLEX OUTDOOR ALTERNATING PANEL WITH AUDIBLE (80 dBi) AND VISUAL HIGH WATER ALARM
IMPELLER	300 SERIES STAINLESS STEEL
PAINT	POWDER COAT
MAX LIQUID TEMP	60°C (140°F
MAX STATOR TEMP (1-PHASE)	LSG202 – 105°C / 221°F LSG202-C AND LSGX MODELS – 135°C / 275°F
THERMAL OVERLOAD (1-PHASE)	LSG202 – 105°C / 221°F LSG202-C AND LSGX MODELS – 135°C / 275°F
POWER CORD TYPE	SJOOW (1-phase) SEOOW (3-phase) SOOW (external capacitor models)
MOTOR HOUSING	CLASS 25 CAST IRON
VOLUTE	CLASS 25 CAST IRON
SHAFT	300 SERIES STAINLESS STEEL
HARDWARE	STAINLESS
O-RINGS	BUNA-N
MECHANICAL SEAL	UNITIZED SILICON CARBIDE
MIN BEARING LIFE	50,000 HRS
WEIGHT	526 LBS / 239 KG

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D3672LSG/LSGX-Series Specifications

1.01 GENERAL

The contractor shall provide labor, material, equipment, and incidentals required to provide _____ (QTY) centrifugal grinder pumps as specified herein. The pump models covered in this specification are LSG/LSGX-Series single/three-phase grinder pumps. The pump furnished for this application shall be model _____ as manufactured by Liberty Pumps.

2.01 OPERATING CONDITIONS

Each submersible pump shall be rated at 2 hp, _____ volts, _____ phase, 60 Hz, 3450 RPM. The unit shall produce _____ GPM at _____ feet of total dynamic head.

The submersible pump shall be capable of handling residential and commercial sewage and grinding it to a fine slurry enabling it to be pumped over long distances in pipelines as small as 1.25" in diameter. The LSG-Series single-stage submersible pump shall have a shut-off head of 110 feet and a maximum flow of 50 GPM @ 10 feet of total dynamic head. The LSGX-Series 2-stage submersible pump shall have a shut-off head of 185 feet and a maximum flow of 38 GPM @ 10 feet of total dynamic head.

3.01 CONSTRUCTION

Each centrifugal grinder pump shall be equal to the C SP US certified LSG/LSGX-Series grinder pumps as manufactured by Liberty Pumps, Bergen NY. The castings shall be constructed of class 25 cast iron. The motor housing shall be oil filled to dissipate heat. Air filled motors shall not be considered equal since they do not properly dissipate heat from the motor. All mating parts shall be machined and sealed with a Buna-N O-ring. All fasteners exposed to the liquid shall be stainless steel. The motor shall be protected on the top side with sealed cord entry plate with molded pins to conduct electricity eliminating the ability of water to enter internally through the cord. The motor shall be protected on the lower side with a dual seal arrangement. The first seal is a double lip seal molded in fluoroelastomer. The second/main seal shall be a unitized hard face silicon carbide seal with stainless steel housings and spring.

The upper and lower bearing shall be capable of handling all radial thrust loads. The lower bearing shall have the additional ability to handle the downward axial thrust produced by the impeller and cutters by design of angular contact roller races. The pump housing shall be of the concentric design thereby equalizing the pressure forces inside the housing which will extend the service life of the seals and bearings. Additionally there shall be no cutwater in the housing volute in order to discourage the entrapment of flowing debris. The pump shall be furnished with a stainless steel handle having a nitrile grip.

4.01 ELECTRICAL POWER CORD

The submersible pumps shall be supplied with 25 feet of multi-conductor power cord (35 feet for external capacitor models). It shall be cord type SJOOW (1-phase), SEOOW (3-phase), or SOOW (external capacitor models), capable of continued exposure to the pumped liquid. The power cord shall be sized for the rated full load amps of the pump in accordance with the National Electric Code. The power cable shall not enter the motor housing directly but will conduct electricity to the motor by means of a watertight compression fitting cord plate assembly with molded pins to conduct electricity. This will eliminate the ability of water to enter internally through the cord via a damaged or wicking cord.

5.01 MOTORS

All motors shall be oil filled and class B insulated NEMA B design rated for continuous duty. Since air filled motors are not capable of dissipating heat as effectively, they shall not be considered equal. Single-phase motors shall be capacitor start/capacitor run and have an integral thermal overload switch in the windings for protecting the motor.

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*7000 Apple Tree Avenue Bergen NY 14416 ■ **Phone** 800-543-2550 ■ **Fax** 585-494-1839 ■ **Email** Liberty@LibertyPumps.com ■ **Web** www.LibertyPumps.com*

6.01 BEARINGS AND SHAFT

An upper radial and a lower angular contact ball bearing shall be required. The upper bearing shall be a single ball/race type bearing. The lower bearing shall be an angular contact heavy-duty ball/race type bearing, designed to handle axial grinder pump thrust loads. Both bearings shall be permanently lubricated by the oil, which fills the motor housing. The bearing system shall be designed to enable proper cutter alignment from shut off head to maximum load at 10 feet of TDH. The motor shaft shall be made of 300 series stainless steel and have a minimum diameter of 0.670".

7.01 SEALS

The pump shall have a dual seal arrangement consisting of a lower and upper seal to protect the motor from the pumping liquid. The lower seal shall be a fluoroelastomer molded double lip seal designed to exclude foreign material away from the main upper seal. The upper seal shall be a unitized silicon carbide hard face seal with stainless steel housings and spring equal to Crane Type T-6a. The motor plate/housing interface shall be sealed with a Buna-N O-ring.

8.01 IMPELLER

The impeller shall be an investment cast stainless steel impeller with pump out vanes on the back shroud to keep debris away from the seal area. It shall be keyed and bolted to the motor shaft.

9.01 CUTTER MECHANISM

The cutter and plate shall consist of 440 stainless steel with a Rockwell C hardness of 55–60. The stationary cutter plate shall have specially designed orifices through it, which enable the slurry to flow through the pump housing at an equalized pressure and velocity. The stationary cutter shall consist of V shapes to maximize cutting action and arc shape exclusion slots to outwardly eject debris from under the rotary cutter. The rotary cutter shall have (4) blades and be designed with a recessed area behind the cutting edge to prevent the accumulation and binding of any material between rotary cutter and the stationary cutter. The cutting system must incorporate close tolerances for optimum performance. Ring or radial cutters, or those that grind on the outside circumference, shall not be considered equal.

10.01 CONTROLS

The pumps shall be controlled with a NEMA 4X outdoor duplex control panel with three float switches and a high water alarm or with optional IP Series NEMA 4X outdoor duplex control panel with transducer, adjustable setpoints, data logging, and a high water alarm.

11.01 PAINT

The exterior of the casting shall be protected with powder coat paint.

12.01 SUPPORT

The pumps shall have cast iron support legs enabling it to be a freestanding unit. The legs will be high enough to allow solids and long stringy debris to enter the cutter assembly.

13.01 SERVICEABILITY

Components required for the repair of the pump shall be shipped within a period of 24 hours.

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14.01 FACTORY ASSEMBLED TANK SYSTEMS WITH GUIDE RAIL AND QUICK DISCONNECT DISCHARGE

Factory mounted guide rail system with pump suspended by means of bolt-on quick disconnect that is sealed by means of nitrile grommets. The discharge piping shall be schedule 80 PVC and furnished with a check valve and PVC shut-off ball valve. The tank shall be wound fiberglass. An inlet hub shall be provided with the system.

15.01 TESTING

The pump shall have a ground continuity check and the motor chamber shall be hi-potted to test for electrical integrity, moisture content and insulation defects. The motor and volute housing shall be pressurized, and an air leak decay test performed to ensure integrity of the motor housing. The pump shall be run, voltage current monitored, and checked for noise or other malfunction.

16.01 QUALITY CONTROL

The pumps shall be manufactured in an ISO 9001 certified facility.

17.01 WARRANTY

Standard limited warranty shall be 3 years.

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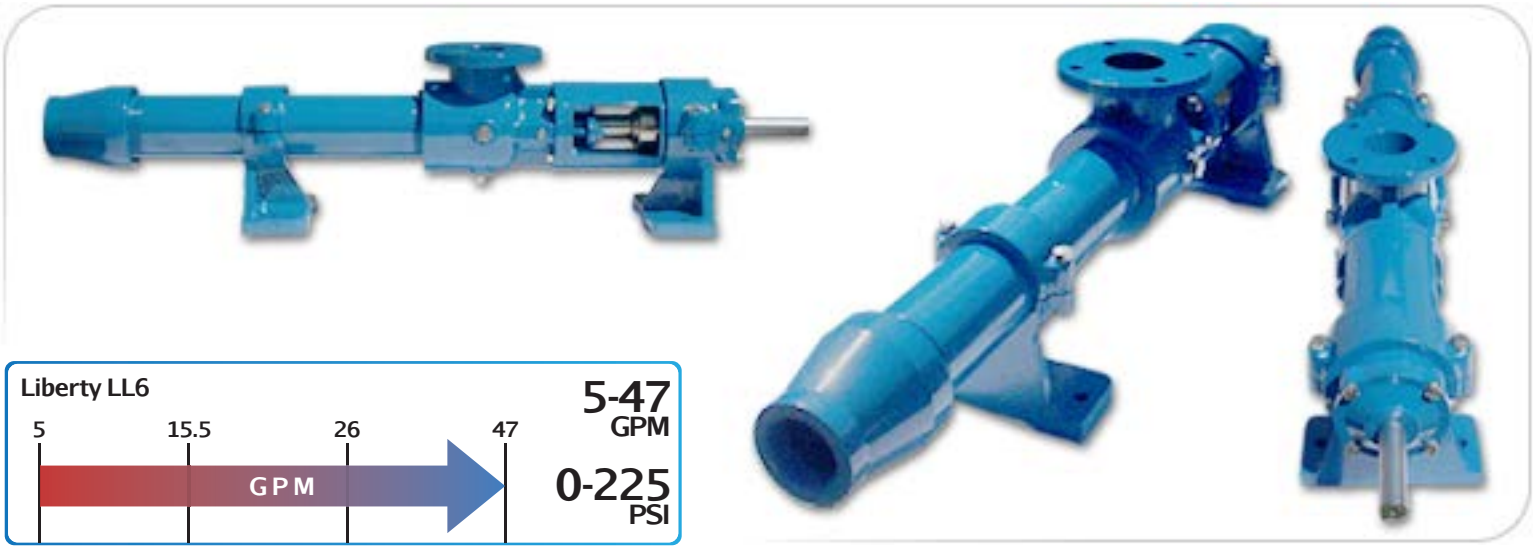
LIBERTY SERIES - LL6

Progressive Cavity Pump



Features

- Modular Design
- Maintenance Free
- Easy Assembly/Disassembly
- Simple Pin Joint Design
- Non-Pulsating Low Shear
- NPT Discharge Connection
- Can Be Run In Either Direction

Materials

Rotor: *Tool Steel & Stainless Steel, Chrome-Plated*

Stator: *Buna, Rubber, Viton™, EPDM*

Motor: *1.5, 2, 3, and 5 hp*

Inlet: *3"*

Outlet: *2-1/2"*

Bases: *Carbon and Stainless Steel*

Curves

Click Links Below

1-Stage	2-Stage	3-Stage
1LL6	2LL6	3LL6

Drawings

Click Links Below

1-Stage	2-Stage	3-Stage
1LL6	2LL6	3LL6

Pump Description

The Liberty LL6 Progressive Cavity Pump is a low-cost, maintenance free, dependable drop-in replacement pump and is an ideal pump unit for abrasive pump applications such as the mud rotary drilling process for well drilling geotechnical and environment industrial applications due to its robust construction and design.

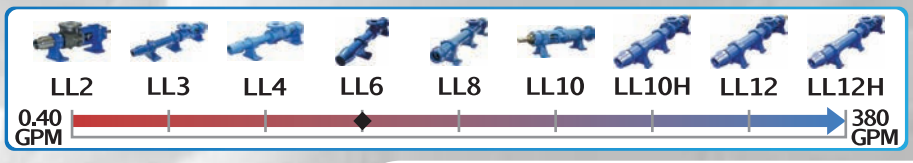
The Liberty LL6 Series PC Pump is a standard flanged progressive cavity pump manufactured with cast iron or 316 stainless steel casings and designed in 1, 2, and 3 stages for 75, 150, and 225 psi discharge pressures. Higher discharge pressures are available, please contact a Liberty representative for more information.

Flow rates to be achieved from 0-47 GPM (5.20 Gallons per 100 revolutions). The pump units modular design with simple hardened pinned joint drive assembly is a proven design that can handle the most difficult pumping applications. The LL6 Series Progressive Cavity Pump Rotors are typically tool steel or 316 stainless steel with a hard chrome plating for added durability. All other wetted parts are either carbon steel or 316 stainless steel.

The LL6 PC Pump Stators are available in many elastomer materials such as buna, natural rubber, epdm and viton depending upon your application. The standard seal design is a set of gland packing with Lantern Ring and flush connections. Mechanical seal options are readily available.

The Liberty LL6 Progressive Cavity Pump parts are direct aftermarket replacement pump parts for the Moyno™ L8, Tarby™ TL8 and Continental CL6 Series. Please contact your Liberty Process representative to help you select the pumps and parts that are right for your application and budget!

Contact a Liberty Process representative today for more information about the LL6 Series.



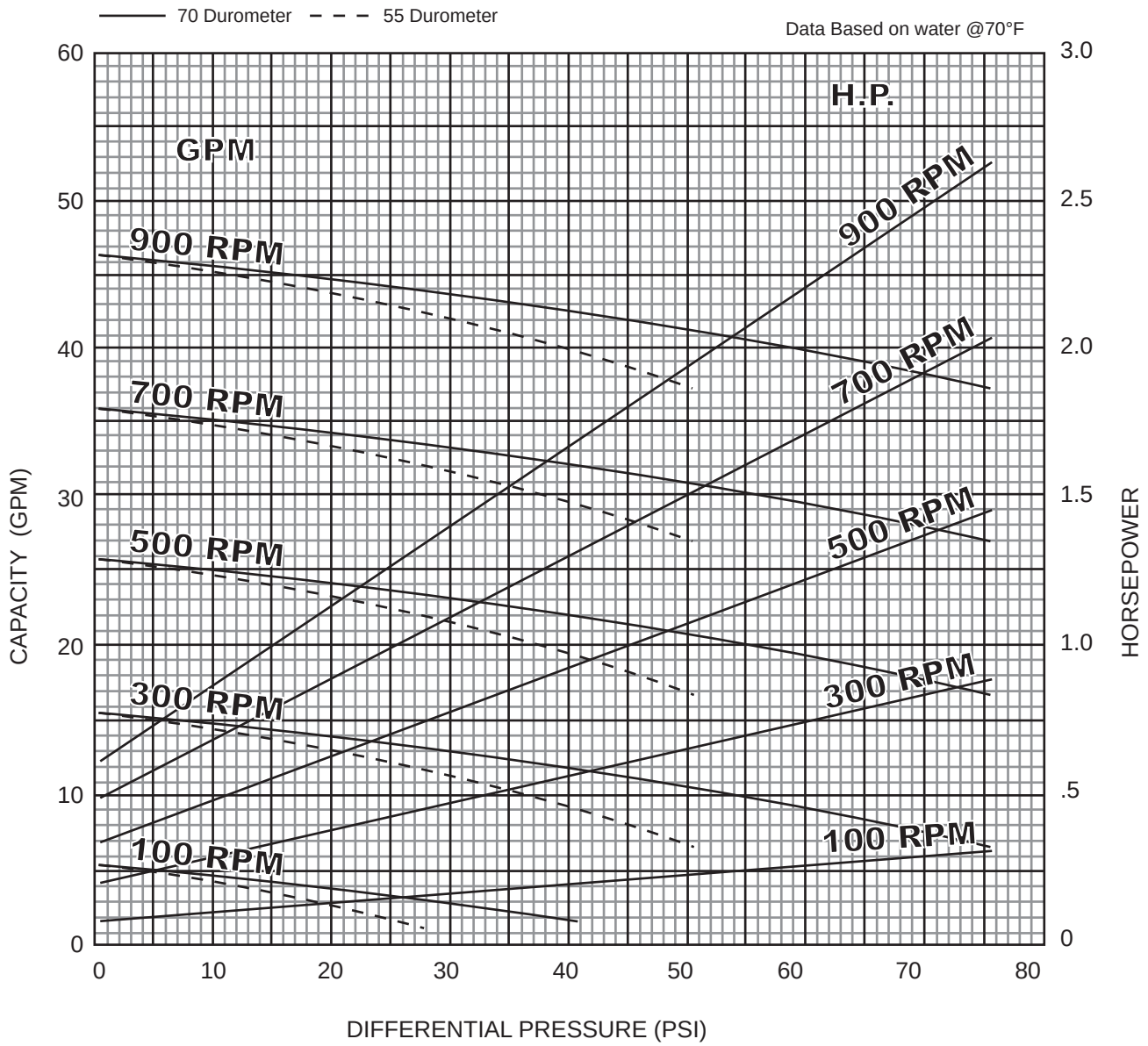
P: 847.640.7867 F: 847.640.7855
2525 Clearbrook Drive Arlington Heights, IL 60005

LIBERTY SERIES - ILL6

Progressive Cavity Pump

Performance Curves

RPM	100	300	500	700	900
NPSH REQ'D	.6	1.7	2.9	4.1	6.9
MIN. HP	1/3	3/4	1	1/1/2	2



1 Stage Pump

BACK TO TOP

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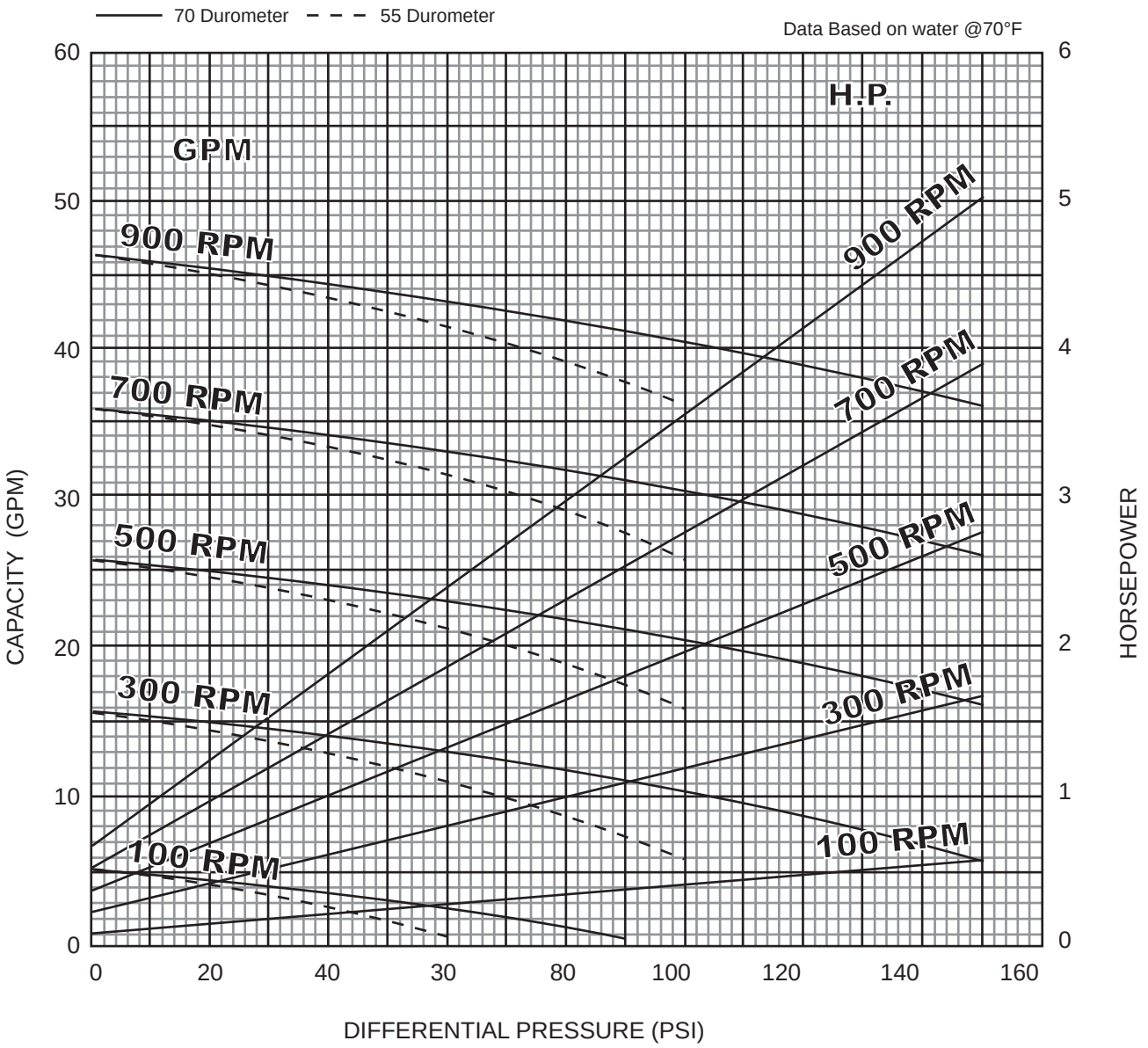
LIBERTY SERIES - 2LL6

Progressive Cavity Pump

Performance Curves

RPM	100	300	500	700	900
NPSH REQ'D	.6	1.7	2.9	4.1	6.9
MIN. HP	1/2	1/2	2	3	3



2 Stage Pump

BACK TO TOP

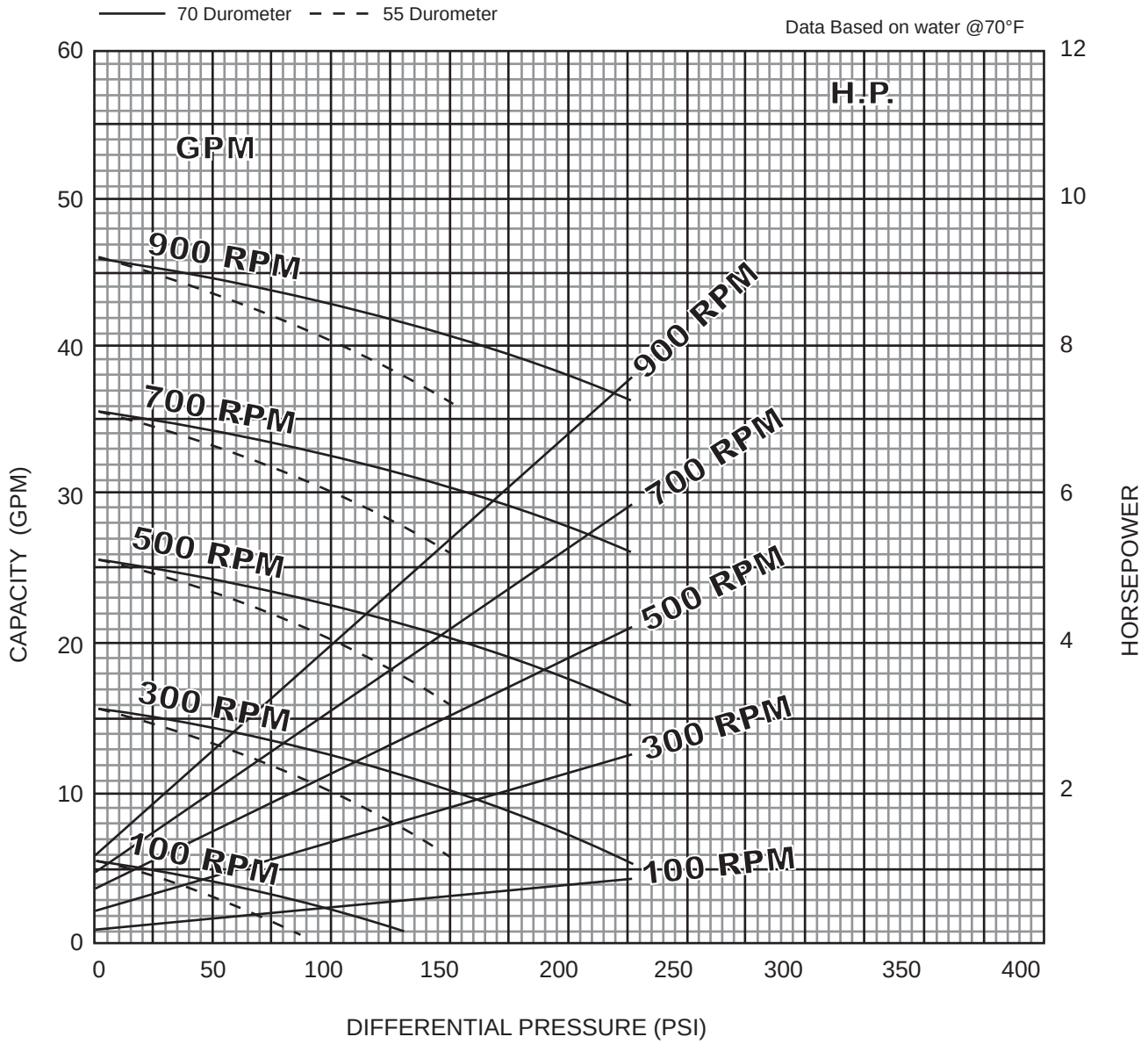
P: 847.640.7867 F: 847.640.7855
2525 Clearbrook Drive Arlington Heights, IL 60005

LIBERTY SERIES - 3LL6

Progressive Cavity Pump

Performance Curves

RPM	100	300	500	700	900
NPSH REQ'D	.6	1.7	2.9	4.1	6.9
MIN. HP	1	2	3	4	5



3 Stage Pump

BACK TO TOP

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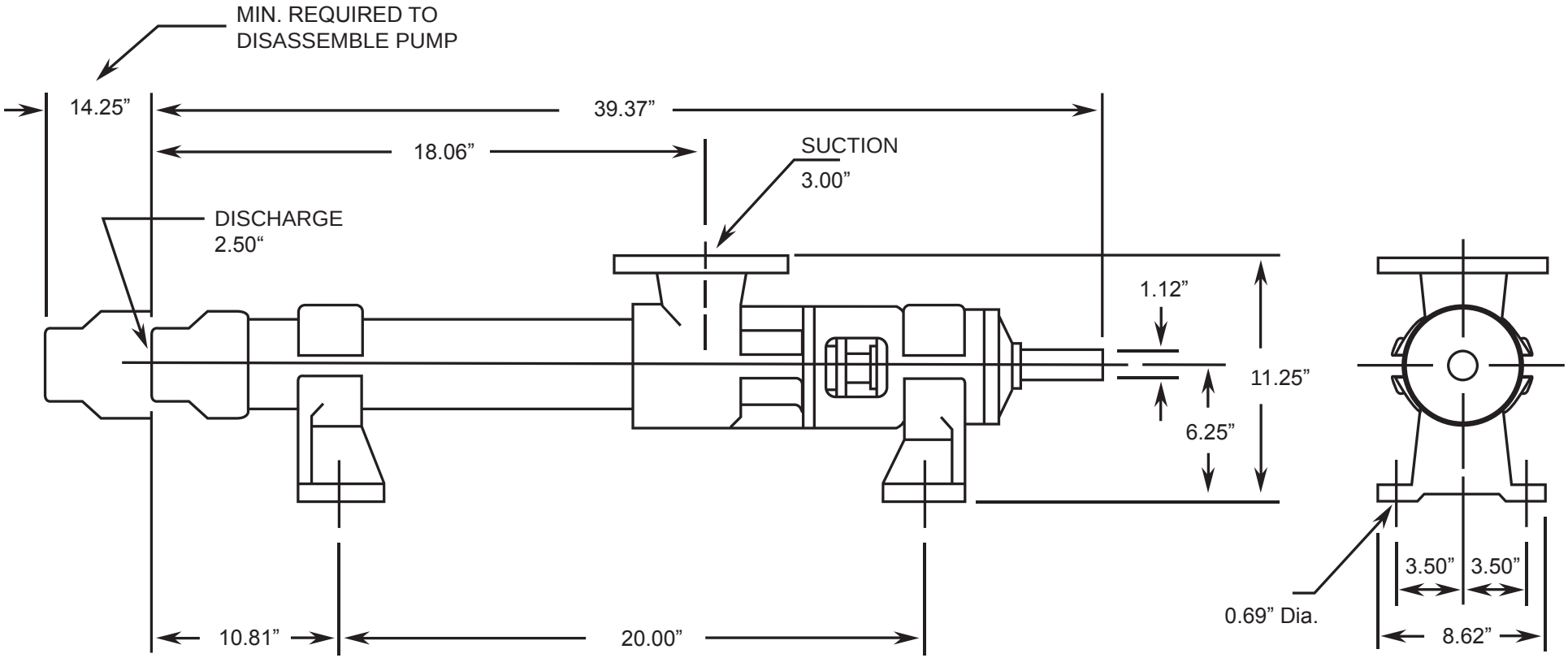
LIBERTY SERIES - ILL6

Progressive Cavity Pump

Dimensional Drawings



Net weight
≈ lbs.
141

ALL DIMN: Inches

BACK TO TOP

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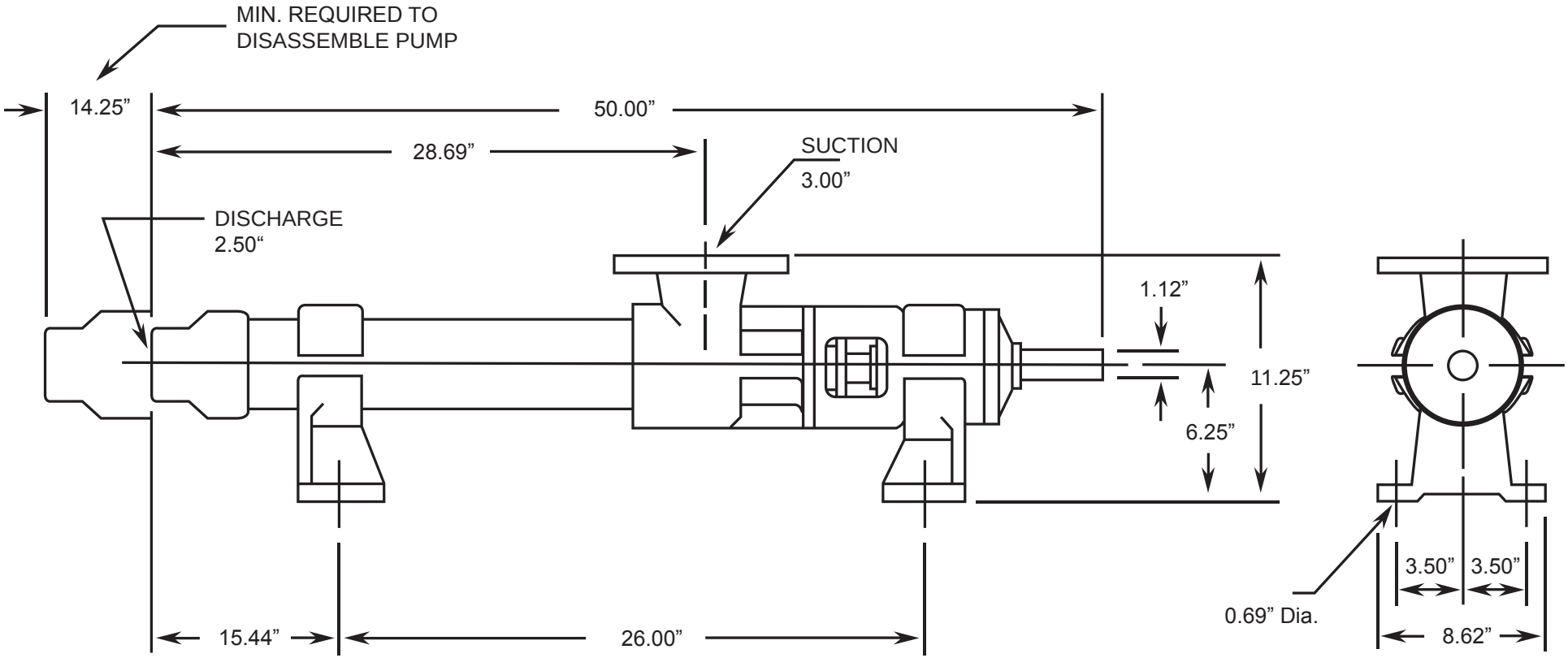
LIBERTY SERIES - 2LL6

Progressive Cavity Pump

Dimensional Drawings



Net weight
≈ lbs.
159

ALL DIMN: Inches

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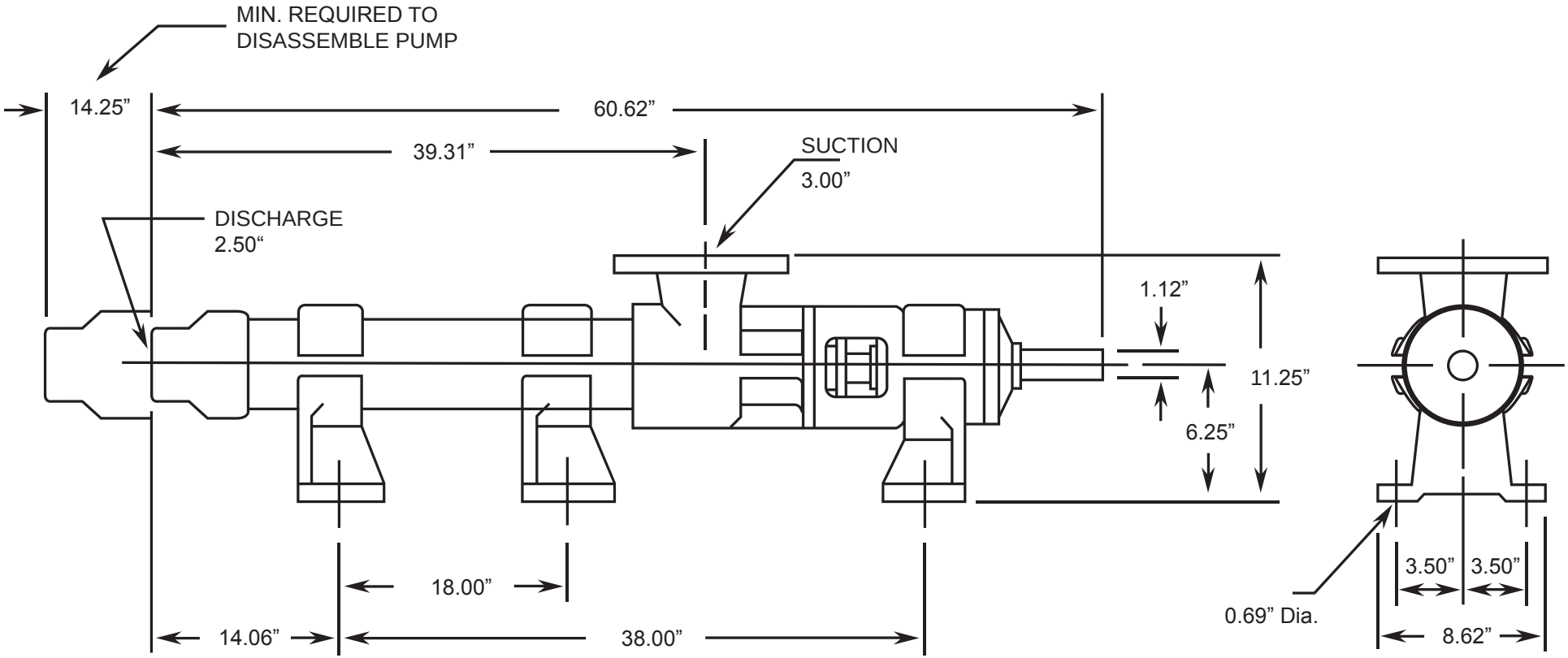
LIBERTY SERIES - 3LL6

Progressive Cavity Pump

Dimensional Drawings



Net weight
≈ lbs.
192

ALL DIMN: Inches

BACK TO TOP

3 Stage Pump

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Travis Club Marina
Water Quality Analysis Statement

The marina has been designed to have the minimum potential impact on the overall environment and water quality. The management of the marina will take specific actions to further mitigate any risk to water quality from the operation of the marina.

Dock Design and Construction
The marina, connecting walkway and docks have been designed to cause no potential impact on water quality. The dock structure will be provided by Meeco Sullivan, LLC and will be based on galvanized steel frames, composite decking and side wood, fully encased floats provided by Hendren. The marina will be anchored with a winch and cable system that will incorporate stainless steel cable and hardware.

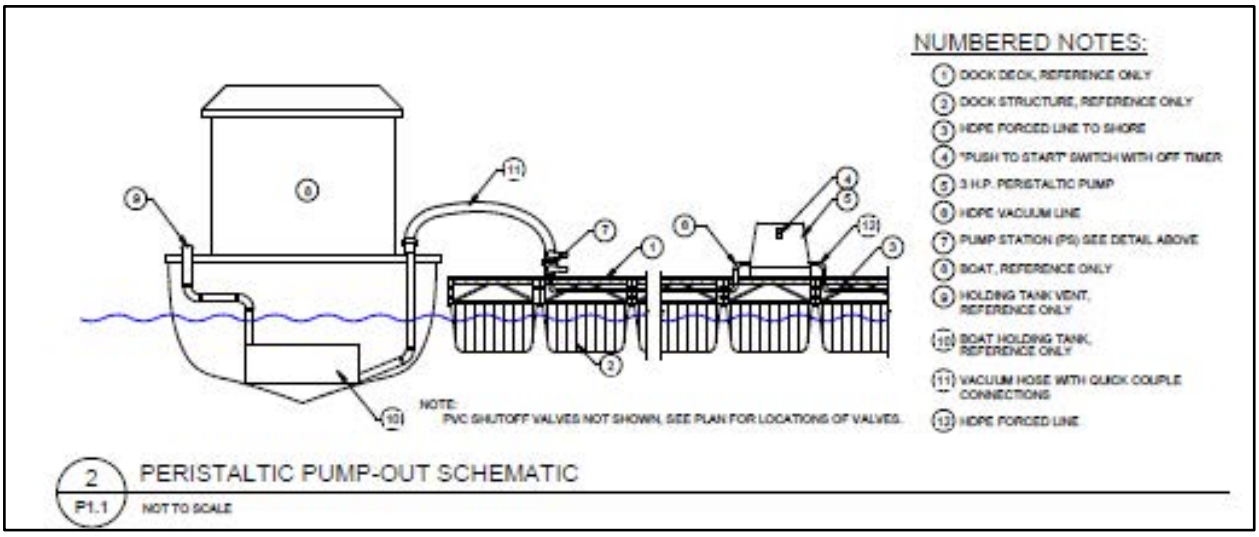
There is no element of the design or construction of the marina that would create any risk to water quality.

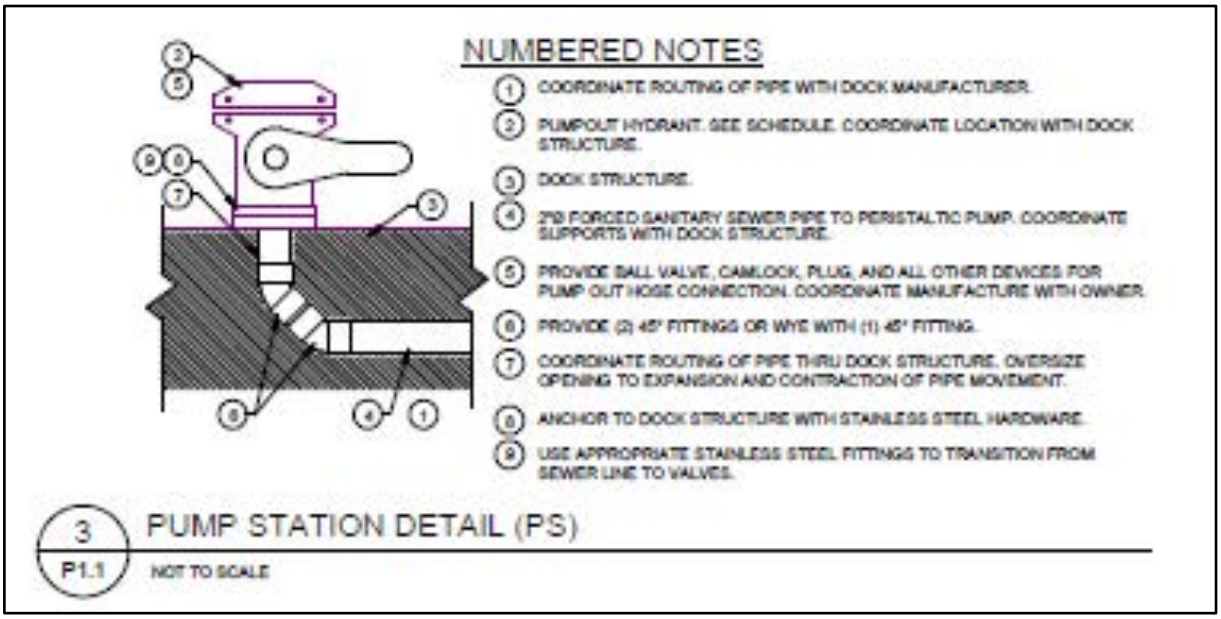
No Fuel Sold
There will not be any fuel sold at the marina, and marina management will not allow fuel to be transported onto the marina at any time.

Boat Sewage
We will provide a qualified pump-out station that will be available only to those people that have their boat in one of our slips. There will be no charge for our patrons to use the pump-out station. This will not be open to the public. The system will be designed and installed to meet all relevant codes.

You will see below the basic design of this pump-out station that is in the set of Stamped Plans for Travis Club Marina Utilities. We will ensure that a trained and qualified person will be available to support our customers in the proper use of the pump-out station.

The pump-out station WILL NOT BE OPERABLE until we are able to develop the upland sewage access. We do not yet know when that access will become available, but the pump-out station will be secured and not available for use until there is access for all marina wastewater to be securely pumped into an appropriate sewage access.





Bath House Sewage

We will incorporate a bath house in Dock B, but we have not yet determined the precise location or the exact configuration. Per the notes included in the set of Stamped Plans for Travis Club Marina Utilities, there will be a gravity feed from the bath house into the Liberty Lift Station reservoir.

All bath house sewage and boat sewage will be pumped off the marina via fully compliant means to a manhole cover on shore for complete and proper management of all sewage.

PLUMBING NOTES

GENERAL NOTES

A SEE SANITARY SEWER ISOMETRIC FOR PIPE SIZES NOT SHOWN.

B ALL FLOOR DRAINS TO BE SUPPLIED WITH WATER FROM TRAP PRIMER TAILPIECE FROM A LAVATORY OR TRAP PRIMER

C COORDINATE ROUTING OF PIPE WITH OTHER TRADES.

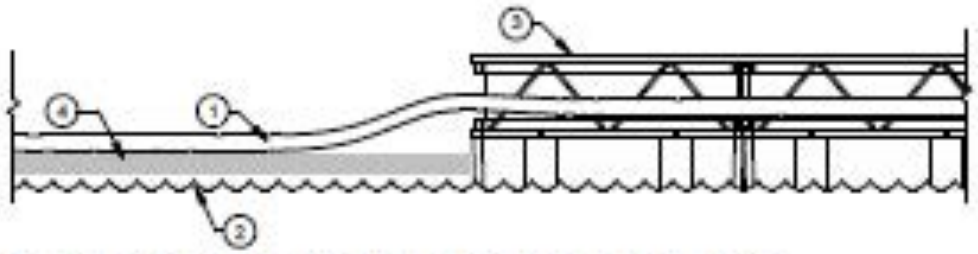
NUMBERED NOTES

1 LIBERTY LIFT STATION. COORDINATE ACTUAL LOCATION WITH OWNER TO ALLOW FOR GRAVITY FLOW FROM BATHHOUSE SEWER. BATHHOUSE SEWER DESIGN SHALL BE PROVIDED BY OWNER AND SHALL GRAVITY FLOW INTO LIFT STATION RESEVOIR.

2 ROUTE SEWER LINE TO LOCATION ON SHORE. COORDINATE WITH OWNER FOR MANHOLE LOCATION.

NUMBERED NOTES

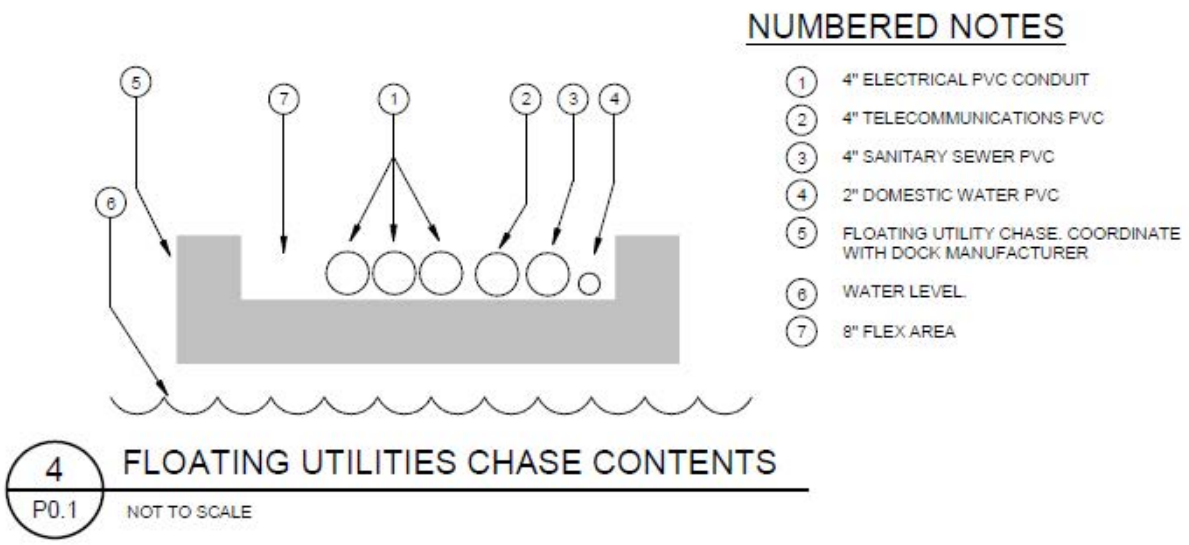
1. FLEXIBLE PIPING. PROVIDE LOOP IN ALL TO ALLOW ADEQUATE MOVEMENT OF GANGWAY. FLEXIBLE PIPE SHALL NOT COME IN CONTACT WITH WATER AR ANY TIME.
2. WATER LEVEL.
3. DOCK FRAMING - FOR REFERENCE ONLY.
4. FLOATING UTILITY CHASE - FOR REFERENCE ONLY.



2 DOCK SIDE FLOATING UTILITIES CHASE

P0.1 NOT TO SCALE

Bathhouse sewage and sewage from the pump-out station will exit the marina on a floating utility chase that will keep them secure and accommodate the relatively dramatic water level changes at Lake Travis.



Solid Waste Collection
We will provide appropriate trash bins that will be conveniently located for all slips to ensure that our patrons have ready access to properly dispose of all trash. These bins will be of a design that will limit the risk of trash inadvertently being blown out of the receptacle or otherwise getting into the lake.

Our marina is designed to support golf cart traffic, and we will have trained staff that will regularly collect all trash to be taken off the marina and properly disposed of in a receptacle on shore.

Lake Water Circulation
The location and basic design of this marina will not inhibit in any way the circulation of lake water.

Boat Cleaning
There will be no boat cleaning allowed by the marina and no chemicals allowed to be stored by the tenants of the marina.

Interim Solutions for Boat Sewage and Restroom Facilities
The shoreside development required to remove boat sewage and bathhouse sewage may not be available at the time the marina is installed. Without an appropriate connection from the marina to a shoreside sewer line, temporary restroom facilities will be provided at various locations where people will enter and exit the main access to the marina. We will also limit the number of watercraft that are required by TCEQ regulations to be equipped with marine sanitation devices to not more than 25 until all shoreside development is completed and all marina sewage systems are functioning properly. We are investigating the opportunity of

having a local provider with a mobile pump out capability to service any boats in the marina with onboard marine sanitation devices.

MURFEE ENGINEERING COMPANY, INC.

1101 Capital of Texas Highway South
Building D, Suite 110
Austin, Texas 78746
Phone: (512) 327-9204
Texas Registered Engineering Firm F-353

MEMO

DATE: October 18, 2024 MEC File: 21007.500

TO: Whom it May Concern

FROM: James Scaief, P.E., P.G.

SUBJECT: Travis Club Marina, Lake Travis

Section 5.2(b)(iii)(1)b of the LCRA Highland Lakes Marina Ordinance, Amended May 24, 2023, provides requirements for approval of an exception to locate marina facilities where located less than 200 feet from the main channel of the Colorado River.

The proposed Travis Club Marina is to be located along the river at 30.4143 degrees north and 98.0316 degrees west. Due to the width of the lake at both normal pool and flooding condtions, water currents will be sufficiently slow such that the proposed facility will not be adversely impacted by strong currents or present a hazard to public safety.

Texas Professional Engineer's Certification: