DANA POINT HARBOR REVITALIZATION

Dana Point, CA

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

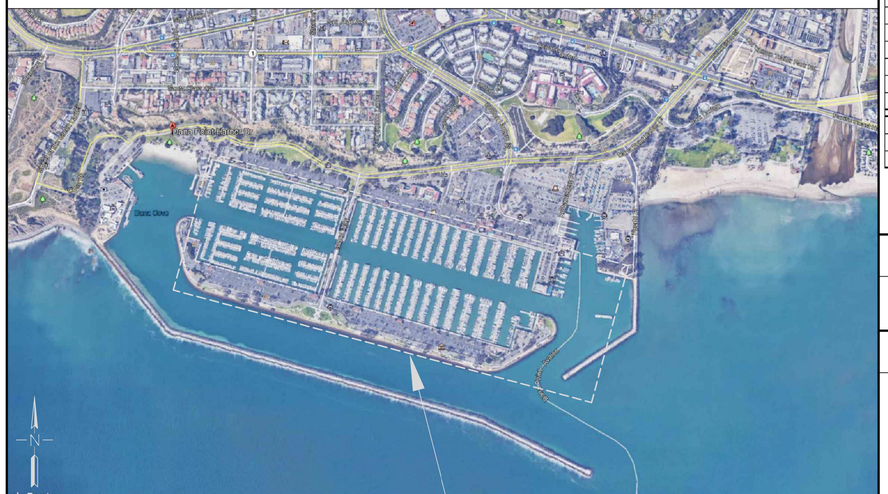
County of Orange - OC Public Works
OC Development Services
APPROVED
This set of plans and specifications must be kept on the job at all times. It is unlawful to make changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.
Hadi Tabatabaei
BUILDING OFFICIAL
6

PERMIT DRAWING

VICINITY MAP

PROJECT LOCATION

SITE MAP



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DANA POINT MARINA - PROPOSED SLIP MIX CHART

B

LENGTH		Min Slip Width	WEST COVE	WEST ISLAND	EAST COVE	EAST ISLAND	CHARTER DOCK	ADA SLIPS	TOTAL	LF BERTHING	%
15	FT	7 ft	0	0	37	0	0		37	555	1.63%
20	FT	9 ft	7	2	0	0	0		9	180	0.40%
21	FT	9.5 ft	17	8	0	22	0	6	47	987	2.07%
24	FT	11 ft	10	0	0	5	0		15	360	0.66%
25	FT	11.5 ft	267	106	0	326	0	3	699	17475	30.81%
26	FT	12 ft	22	9	0	20	0		51	1326	2.25%
28	FT	12.5 ft	95	0	0	51	0		146	4088	6.43%
30	FT	13.5 ft	194	91	1	190	0		476	14280	20.98%
31	FT	13.75 ft	0	5	0	13	0	6	18	558	0.79%
32	FT	14 ft	0	0	0	8	0		8	256	0.35%
33	FT	14.25 ft	0	1	0	1	0	1	2	66	0.09%
34	FT	14.5 ft	0	0	0	2	0		2	68	0.09%
35	FT	14.75 ft	0	109	34	105	0	8	248	8680	10.93%
36	FT	15 ft	0	0	4	0	0		4	144	0.18%
38	FT	15.5 ft	0	0	1	0	0	6	1	38	0.04%
40	FT	16 ft	0	0	138	0	0	11	138	5520	6.08%
41	FT	16 ft	0	1	2	0	0		3	123	0.13%
42	FT	16 ft	0	0	27	0	0		27	1134	1.19%
44	FT	16.5 ft	0	0	1	8	0		9	396	0.40%
45	FT	16.5 ft	0	18	107	16	0	10	141	6345	6.21%
48	FT	17 ft	0	0	25	0	0		25	1200	1.10%
50	FT	17 ft	0	45	0	0	5	6	50	2500	2.20%
55	FT	17.75 ft	0	0	0	0	0		0	0	0.00%
56	FT	18 ft	0	21	0	0	0	3	21	1176	0.93%
58	FT	18 ft	0	0	51	0	0	4	51	2958	2.25%
60	FT	18.5 ft	0	0	0	8	0		8	480	0.35%
65	FT	19 ft	0	0	23	0	0		23	1495	1.01%
100	FT	25 ft	0	0	0	0	10	10	10	1000	0.44%
TOTALS =			612	416	451	775	15	56	**2269**	73388	100.00%
									OVERALL AVERAGE LENGTH =	32	ft

NOTE: MINIMUM NUMBER OF ADA SLIPS PER TABLE 11B-235.2 IS 25

PROJECT DESCRIPTION

CONSTRUCTING NEW FLOATING DOCK SYSTEM AS FOLLOWS: A

1.) DESIGN, PROCUREMENT, MANUFACTURE, & INSTALLATION OF NEW, PRE-FABRICATED DOCKS.
6 2.) ADDITION OF ADA GANGWAY AND SLIPS TO W12

CONTACT INFORMATION

PROJECT ADDRESS:
DANA POINT HARBOR DRIVE
DANA POINT, CA 92629

OWNER:
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NEWPORT BEACH, CA 92660

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IRVINE, CA 92618
TEL: 949.529.3479

ABBREVIATIONS

&	and
@	at
A.C.O.E.	Army Corps of Engineers
ALUM.	Aluminum
A.S.	Anti-Skid
x	by
CB	Carriage Bolt
℄	Center Line
C-C	Center to Center
C.F.	Cubic Foot/Feet
C.I.P.	Cast in Place
CLR.	Clear
CW	Cleat Washer
CONC.	Concrete
CONT.	Continuous
C.Y.	Cubic Yard
°	Degrees
D.F.	Douglas Fir
DWG	DWG
D.L.	Dead Load
DET.	Detail
Ø or DIA.	Diameter
ELEV. or EL.	Elevation
EXIST. or (E)	Existing
EA.	Each
Fab.	Fabrication
F.B.	Flat Bar
FH	Flat Head
FT.	Foot
FW	Flat Washer
GA.	Gage
GALV.	Galvanized
GLB	Glue Laminated Beam
HB	Hex Bolt
H.D.	Heavy Duty
HDG	Hot Dip Galvanized
HDPE	High Density Polyethylene
HH	Hex Head
HW	Hardware
HN	Hex Nut
IN.	Inch(es)
LBS. or #	pound(s)
LAM	Laminated
LIN	Linear/lineal
LG	Long
L.L.	Live Load
LW	Lock Washer
MLLW	Mean Lower Low Water
MAX.	Maximum
MB	Machine Bolt
MDPE	Medium Density Polyethylene
MFR	Manufacturer
MM	Millimeter
MIN.	Minimum
N.I.C.	Not In Contract
NO. or #	Number
(N)	New
NTS	Not To Scale
O.A.	Overall
O.C.	On Center
OPP.	Opposite
%	Percent
±	Plus or Minus
PL.	Plate
PCF	Pounds per Cubic Foot
P.O.C.	Point of Connection
PSI	Pounds per Square Inch
P.T.	Pressure Treated
PVC	Polyvinyl Chloride
PL.	Plate
PW	Plate Washer
QTY.	Quantity
REINF.	Reinforced, reinforcement
REQ'D	Required
SQ.	Square
SQW	Square Washer
S.F.	Square Foot
SIM.	Similar
SHT.	Sheet
S.S.	Stainless Steel
T.O.C.	Top of Concrete
T.O.S.	Top of Slope
TS	Tube Steel
TYP.	Typical
THK.	Thick
U.N.O.	Unless Otherwise Noted
UHMW	Ultra High Molecular Weight
VERT.	Vertical
W.W.F.	Welded Wire Fabric
W.W.M.	Welded Wire Mesh
w/	with
W.	Wide, Width
X.H.W.	Extreme High Water
X.L.W.	Extreme Low Water

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED (5) ADA SLIPS TO CHART & GANGWAY NOTE	KG
B	5-10-22	ADDED CHART	KG
A	2-25-22	ADDED "PRE-FABRICATION" TO NOTE	KG

REVISIONS

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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION
Harbor Drive
Dana Point, CA 92629

TITLE SHEET

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:08:52-08'00'

The structural system shown on these drawings, including member sizes, layout, and connection has been designed by Bellingham Marine Engineering under my supervision. No other aspects of the design including suitability for use, safety, mechanical, electrical, quantities, cut lengths and the like have been included in this review. Bellingham Marine Engineering can not be responsible for the accuracy of information provided by others.

SCALE: NTS (Sheet Size 24" x 36")
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DATE: 2/8/2023
DRAWING: T1
SHEET NO.: 1

PERMIT DRAWING

INDEX

REV.	STATUS	SHEET NO.	DRAWING	DRAWING DESCRIPTION
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6	2/8/2023	3	IDX2	DRAWING SET INDEX
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Zoning: CanningK 3/15/2023
Building&Safety: Roshanak Amirazizi 3/14/2023
Revision: 6
Permits: BNR21-0604.R6

County of Orange - OC Public Works
OC Development Services
APPROVED

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Hadi Tabatabaee
BUILDING OFFICIAL
6

NO.	DATE	DESCRIPTION	BY

REVISIONS

Bellingham MARINE®
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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DRAWING SET INDEX

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.03.09
15:31:10-08'00'

SCALE: NTS (Sheet Size 24" x 36")
DRAWN BY: KG
DATE: 3/9/2023
DRAWING: IDX1
SHEET NO.: 2

PERMIT DRAWING

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A	2/25/2022	8	ME0381	PRIVATE DOMESTIC WATER AND SEWER PLAN EAST ISLAND PRIVATE UTILITY PLAN
A	2/25/2022	9	ME0381	PRIVATE DOMESTIC WATER AND SEWER PLAN GUEST DOCKS PRIVATE UTILITY PLAN
A	2/25/2022	10	ME0381	PRIVATE DOMESTIC WATER AND SEWER PLAN WATER DETAILS
A	2/25/2022	11	ME0381	PRIVATE DOMESTIC WATER AND SEWER PLAN WATER DETAILS
A	2/25/2022	12	ME0381	PRIVATE DOMESTIC WATER AND SEWER PLAN SEWER DETAILS
A	2/25/2022	13	ME0381	PRIVATE DOMESTIC WATER AND SEWER PLAN SEWER DETAILS

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

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OC Development Services
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Hadi Tabatabaee
BUILDING OFFICIAL

6

NO.	DATE	DESCRIPTION	BY

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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DRAWING SET INDEX

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.03.09
15:30:57-08'00'

SCALE: NTS (Sheet Size 24" x 36")
DRAWN BY: KG
DATE: 3/9/2023
DRAWING: IDX2
SHEET NO.: 3

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

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OC Development Services
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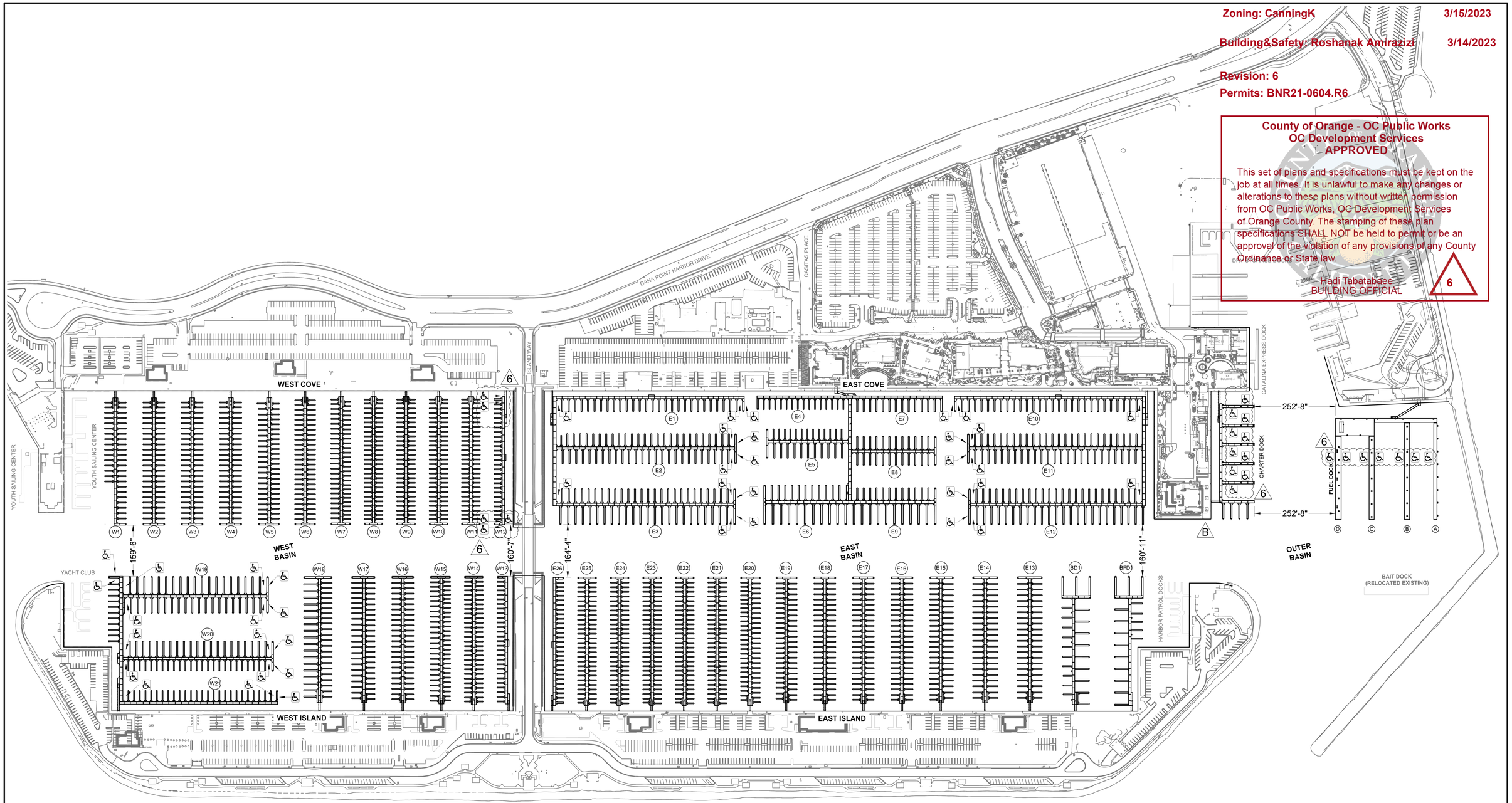
Hadi Tabatabaee
BUILDING OFFICIAL

6



A ♿ = ADA COMPLIANT BERTH

GRAPHIC SCALE
100' 0 80' 220' 360'

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY, ADA FLOAT, (5) ADA SLIPS AT DOCK W12, AND ADA SYMBOLS	KG
B	5-10-22	RECONFIGURED CHARTER DOCKS	KG
A	2-25-22	ADDED CHART AND ADA BERTHS	KG

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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

NEW PROPOSED OVERALL SITE PLAN

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:08:24-08'00'

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SCALE: 1" = 140' (Sheet Size 24" x 36")
DRAWN BY: KG
DATE: 2/8/2023
DRAWING: SP1
SHEET NO.: 5

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604-R6

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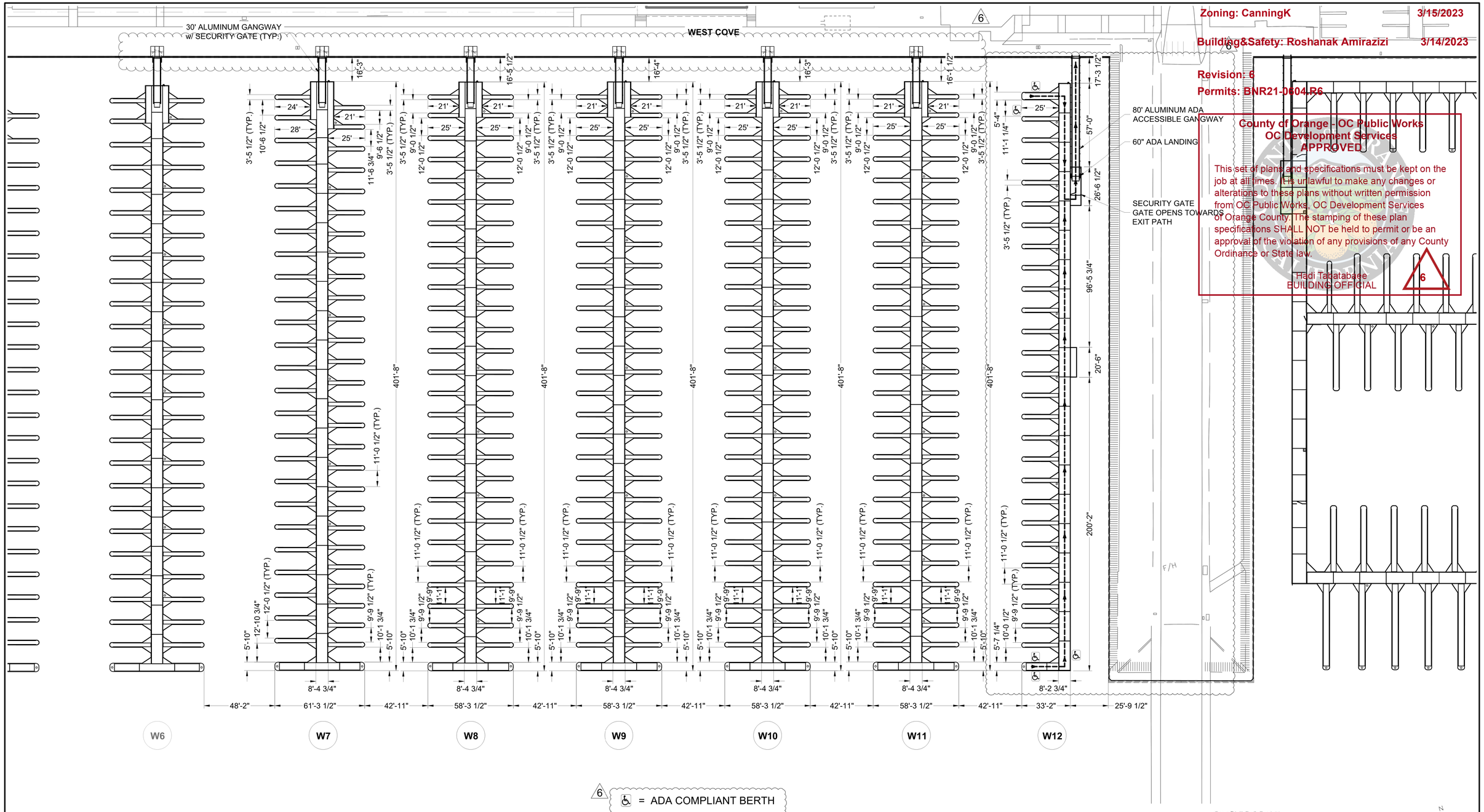
Hadi Tabatabaee
BUILDING OFFICIAL

6



NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY & ADA SLIPS	TF

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DIMENSIONAL LAYOUT FOR DOCKS W7 - W12

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON S-4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:08:14-08'00'

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SCALE: 1" = 30' (Sheet Size 24" x 36")

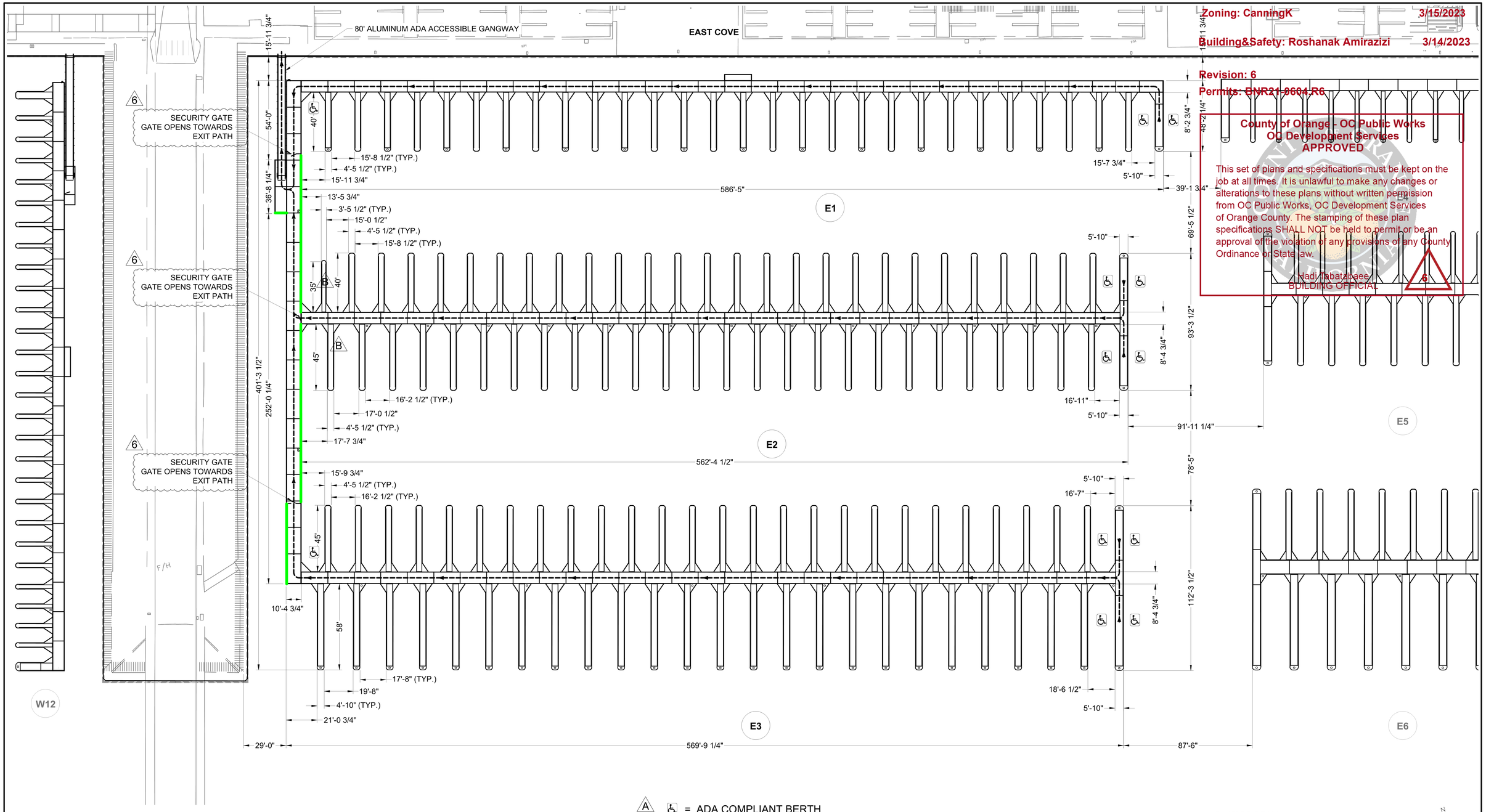
DRAWN BY: KG

DATE: 2/8/2023

DRAWING: DL3

SHEET NO.: 8

PERMIT DRAWING



Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604-R6

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Nadi Tabatabaee
BUILDING OFFICIAL

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED GUARDRAIL AND SECURITY GATE NOTES	KG
B	5-10-22	ADDED ADA PATH OF TRAVEL	KG
A	2-25-22	ADDED ADA BERTHS	KG

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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DIMENSIONAL LAYOUT FOR DOCKS E1 - E3

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:08:02-08'00'

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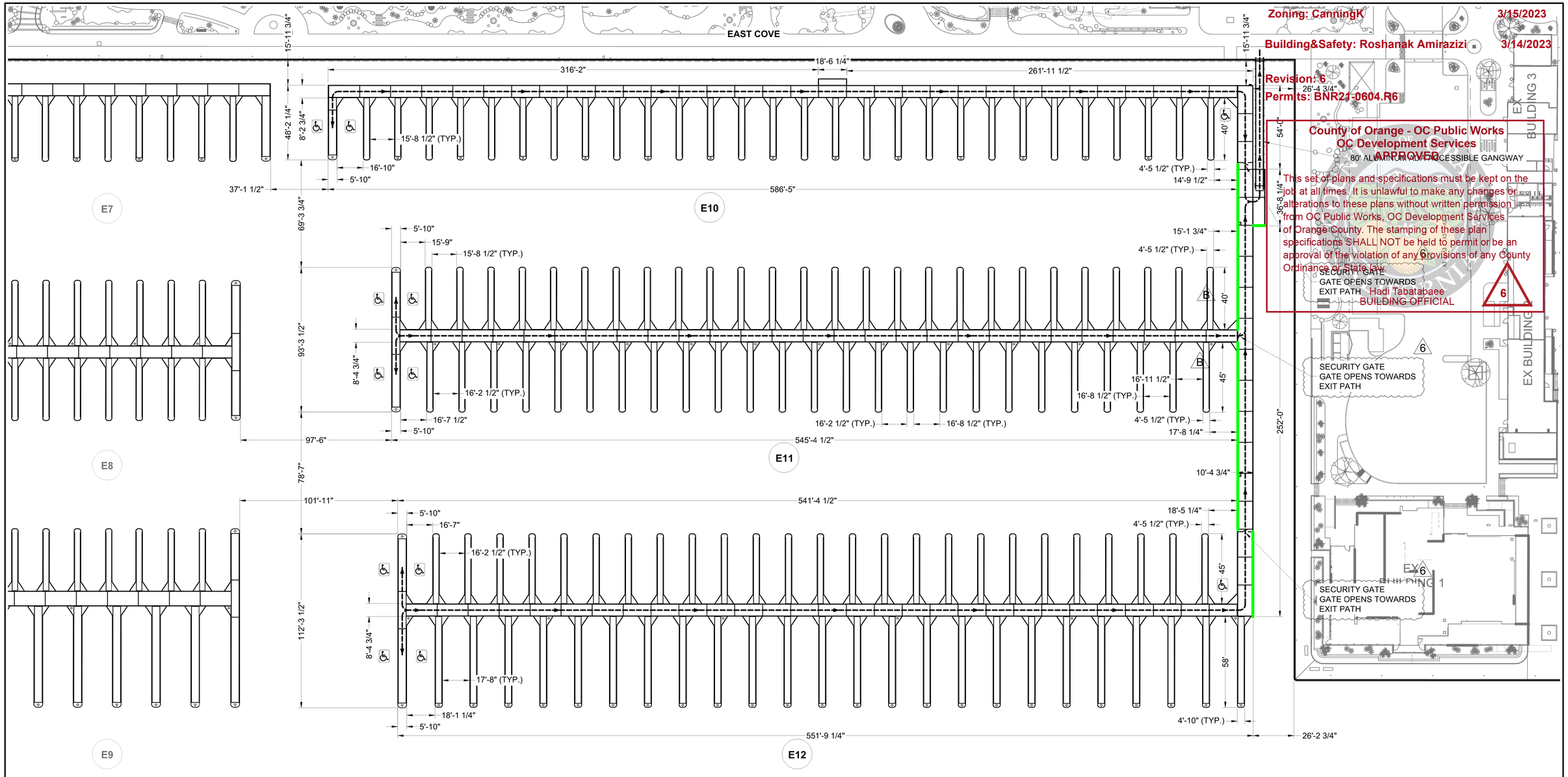
SCALE: 1" = 30' (Sheet Size 24" x 36")
DRAWN BY: KG
DATE: 2/8/2023
DRAWING: DL6
SHEET NO.: 11

PERMIT DRAWING



A ♿ = ADA COMPLIANT BERTH

B --- = ADA PATH OF TRAVEL

6 — = GUARDRAIL

GRAPHIC SCALE

30' 0 20' 40' 60' 100' 180'

N E S W

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED GUARDRAIL AND SECURITY GATE NOTES	KG
B	5-10-22	ADDED ADA PATH OF TRAVEL	KG
A	2-25-22	ADDED ADA BERTHS	KG

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

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DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DIMENSIONAL LAYOUT FOR DOCKS E10 - E12

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON 4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:07:53-08'00'

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SCALE: 1" = 30' (Sheet Size 24" x 36")

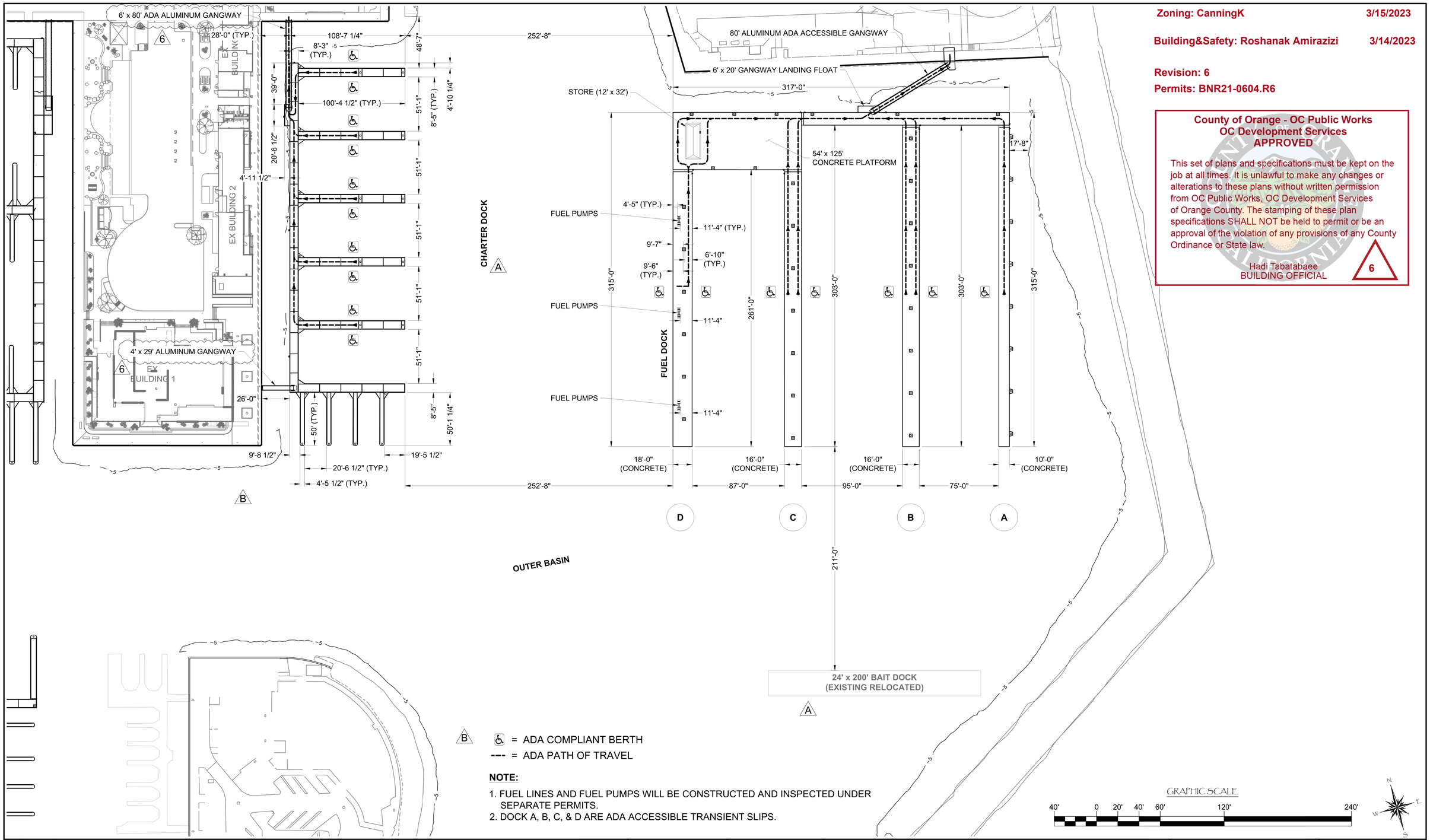
DRAWN BY: KG

DATE: 2/8/2023

DRAWING: DL8

SHEET NO.: 13

PERMIT DRAWING



= ADA COMPLIANT BERTH

--- = ADA PATH OF TRAVEL

NOTE:

1. FUEL LINES AND FUEL PUMPS WILL BE CONSTRUCTED AND INSPECTED UNDER SEPARATE PERMITS.
2. DOCK A, B, C, & D ARE ADA ACCESSIBLE TRANSIENT SLIPS.

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

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Hadi Tabatabaee
BUILDING OFFICIAL

6

NO.	DATE	DESCRIPTION	BY
6	2-8-23	REMOVED SECURITY GATE NOTE	KG
B	5-10-22	RECONFIGURED CHARTER DOCKS, ADDED NOTES, ADA , & PATH OF TRAVEL	KG
A	2-25-22	REMOVED SPORTFISHING/ ADDED EXISTING RELOCATED	KG

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DIMENSIONAL LAYOUT FOR OUTER BASIN DOCKS

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:07:43-08'00'

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SCALE: 1" = 40' (Sheet Size 24" x 36")

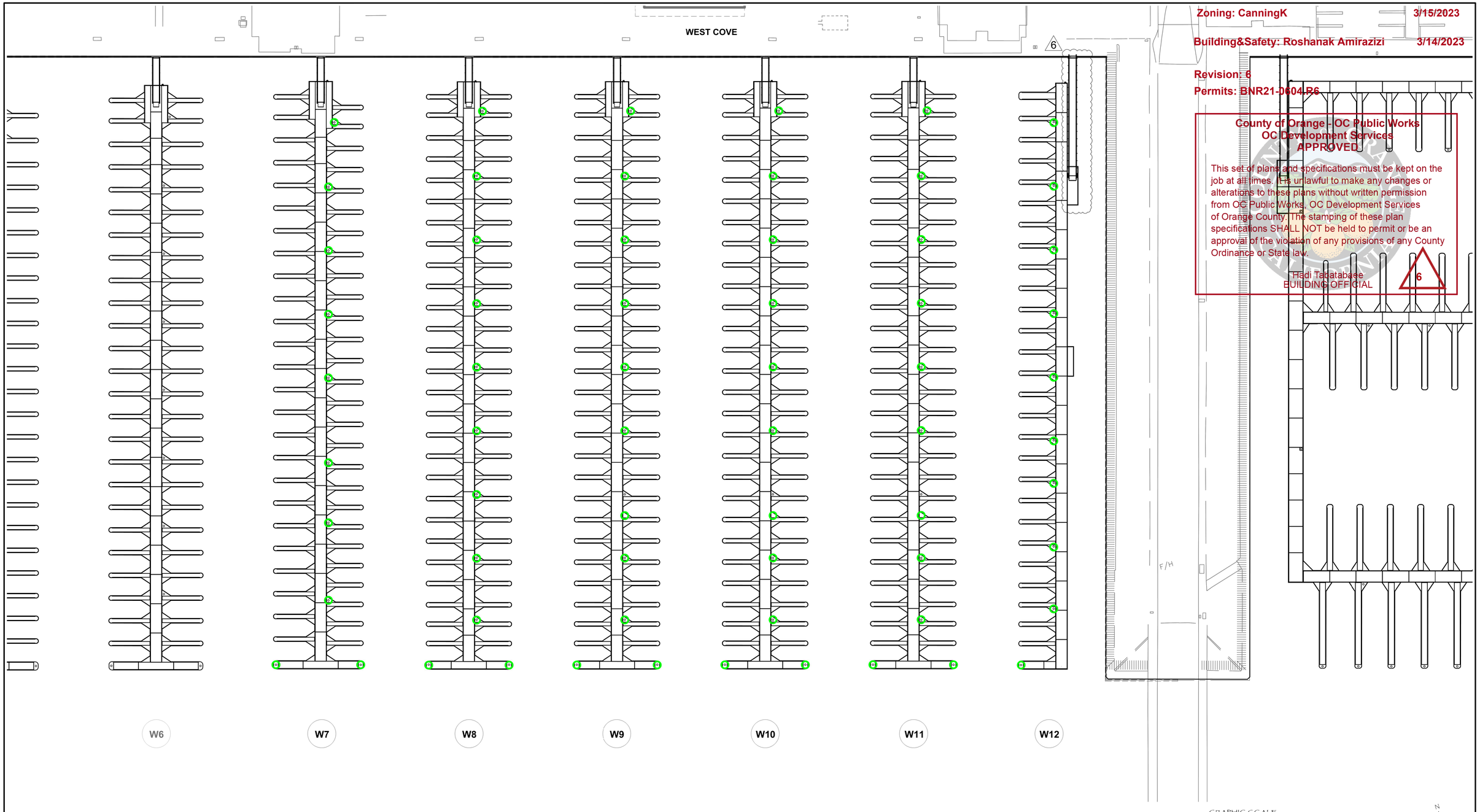
DRAWN BY: KG

DATE: 2/8/2023

DRAWING: DL12

SHEET NO.: 17

PERMIT DRAWING



Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604-R6

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Hadi Tabatabaee
BUILDING OFFICIAL

6

A = 14" (14" O.D.) SCH. XH (.500" WALL) PIPE PILE, ASTM A252, GR. 3 w/ HDPE SLEEVE

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY & UPDATED FLOAT LENGTH	KG
A	5-10-22	PILE SIZE CHANGED FROM 12"	KG

REVISIONS

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

PILE LAYOUT FOR DOCKS W7 - W12

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:07:34-08'00'

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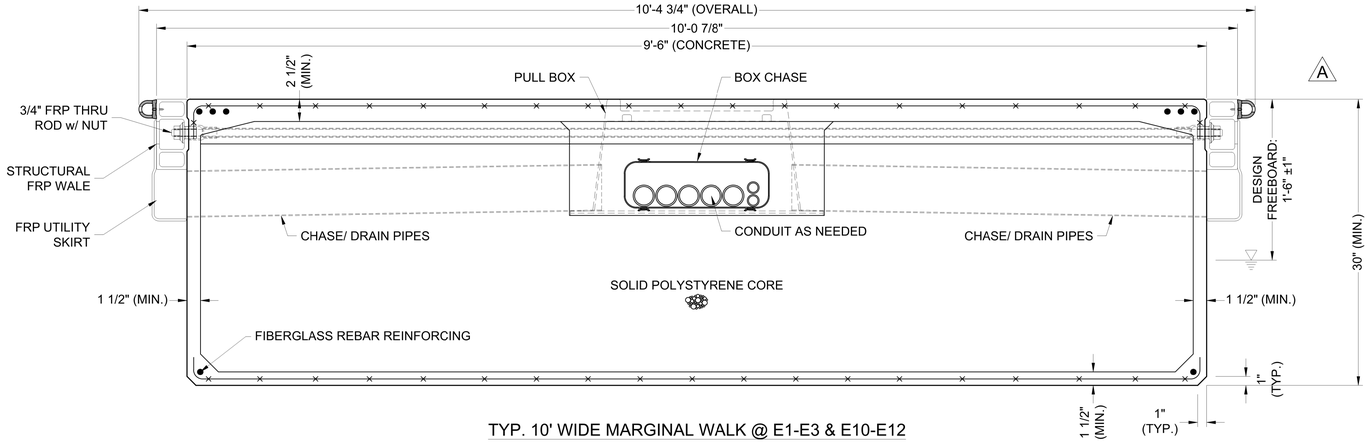
SCALE:	1" = 30' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	2/8/2023
DRAWING:	PL3
SHEET NO.:	20

PERMIT DRAWING



TYP. 10' WIDE MARGINAL WALK @ E1-E3 & E10-E12

Zoning: CanningK **3/15/2023**

Building&Safety: Roshanak Amirazizi **3/14/2023**

Revision: 6

Permits: BNR21-0604.R6

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OC Development Services
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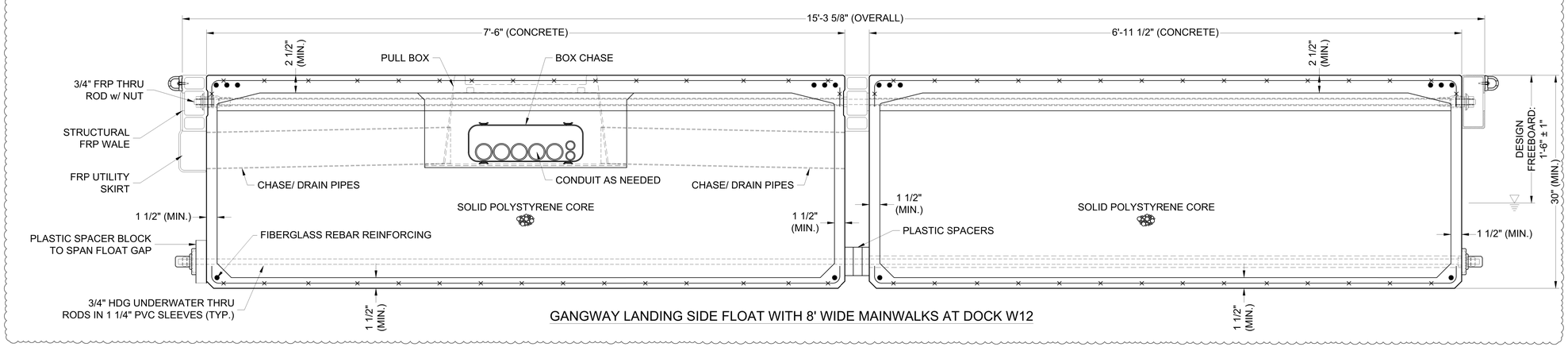
Hadi Tabatabaee
BUILDING OFFICIAL

6

6

6



GANGWAY LANDING SIDE FLOAT WITH 8' WIDE MAINWALKS AT DOCK W12

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED W12 SECTION VIEW/ REMOVED CHARTER DOCK MATCHCAST SECTION VIEW	KG
A	2-25-22	DESCRIPTION CHANGED/ ADDED DIMENSIONS	KG

REVISIONS

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DOCK SECTIONS

REGISTERED PROFESSIONAL ENGINEER CRAIG S. FUNSTON C 4878 EXP. 6-30-2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:07:25-08'00'

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SCALE:	1 1/2" = 1' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	2/8/2023
DRAWING:	DS4
SHEET NO.:	39

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

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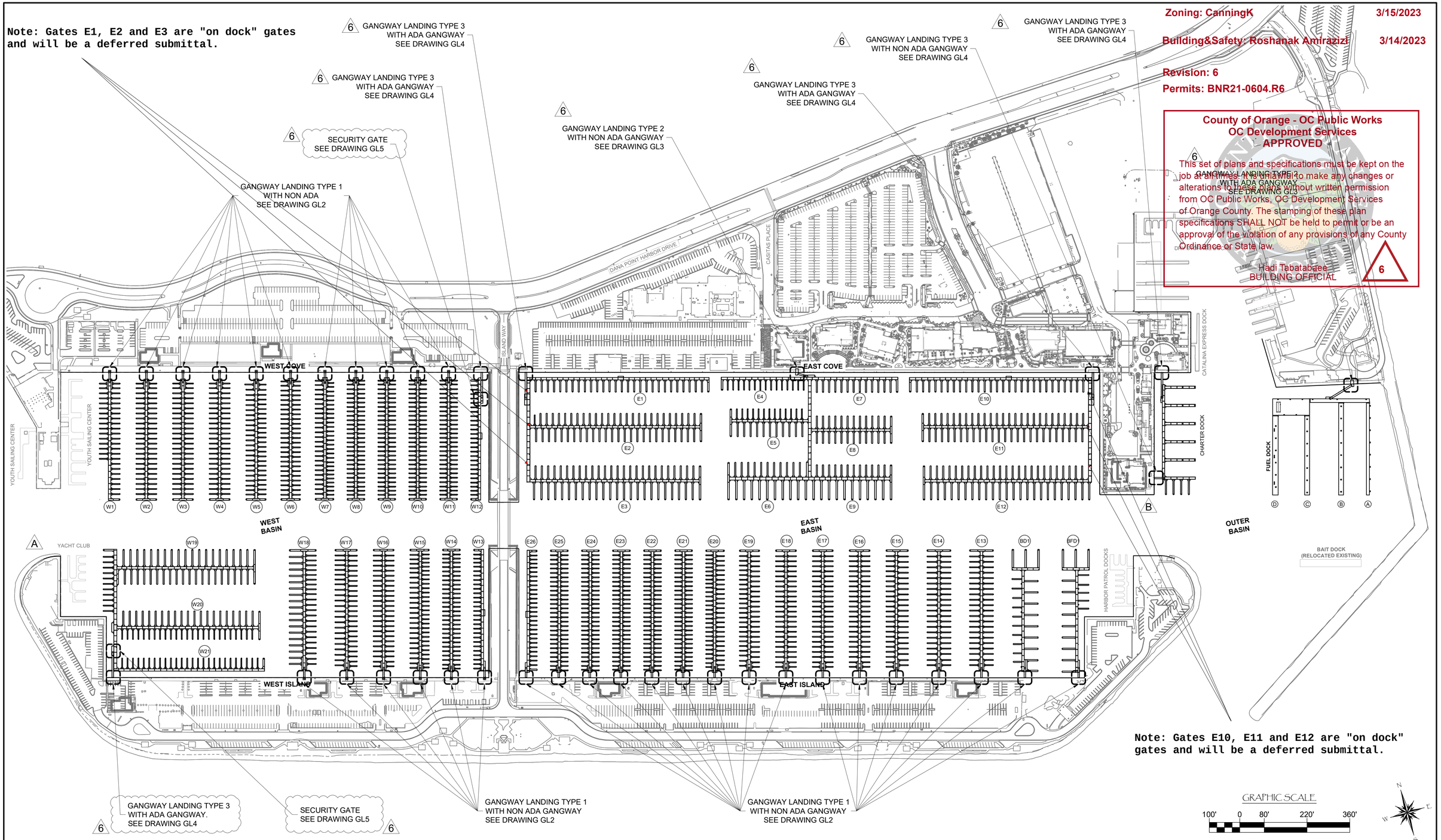
Hadi Tabatabaee
BUILDING OFFICIAL

6

Note: Gates E1, E2 and E3 are "on dock" gates and will be a deferred submittal.



Note: Gates E10, E11 and E12 are "on dock" gates and will be a deferred submittal.

NO.	DATE	DESCRIPTION	BY
6	3-9-23	RECONFIGURATION OF DOCK W12 TO ADD ADA/ SECURITY GATES FOR OTHER DOCKS	KG
6	2-8-23	GANGWAY LANDING TYPE CALLED OUT/ CREATED TYPE 3 LANDING	RR
B	5-10-22	RECONFIGURED CHARTER DOCKS	KG
A	2-25-22	REMOVED YACHT CLUB	KG

REVISIONS

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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

GANGWAY LANDING LAYOUT INDEX

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.03.09
15:30:38-08'00'

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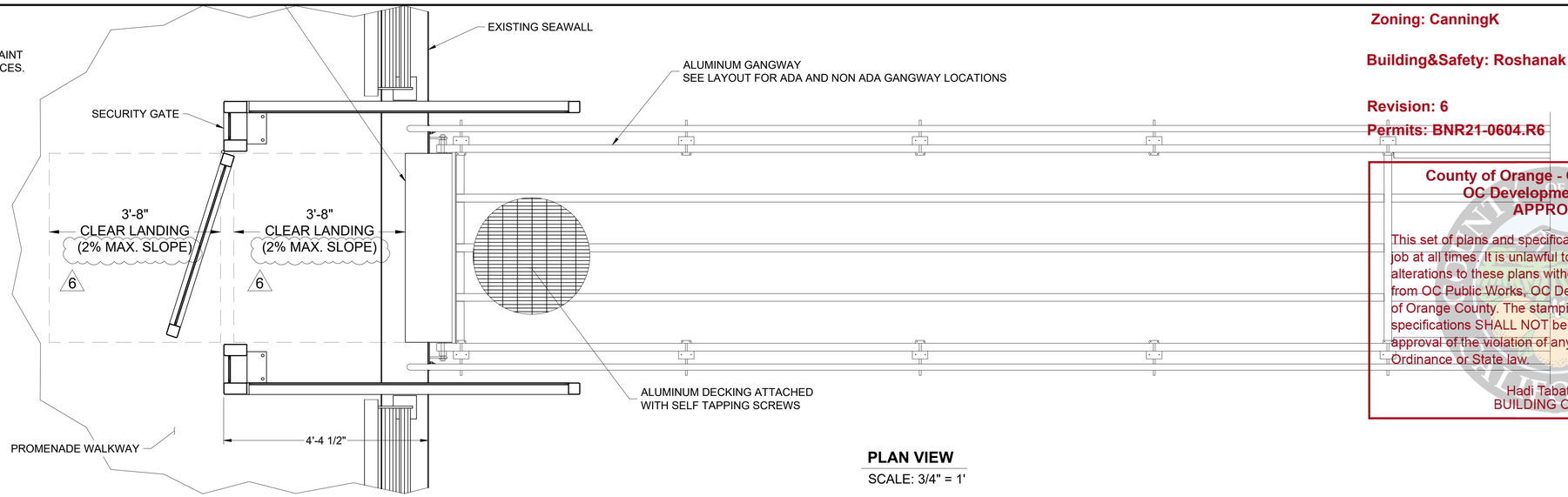
SCALE: 1" = 140' (Sheet Size 24" x 36")
DRAWN BY: KG/RR
DATE: 3/9/2023
DRAWING: GL1
SHEET NO.: 48

PERMIT DRAWING

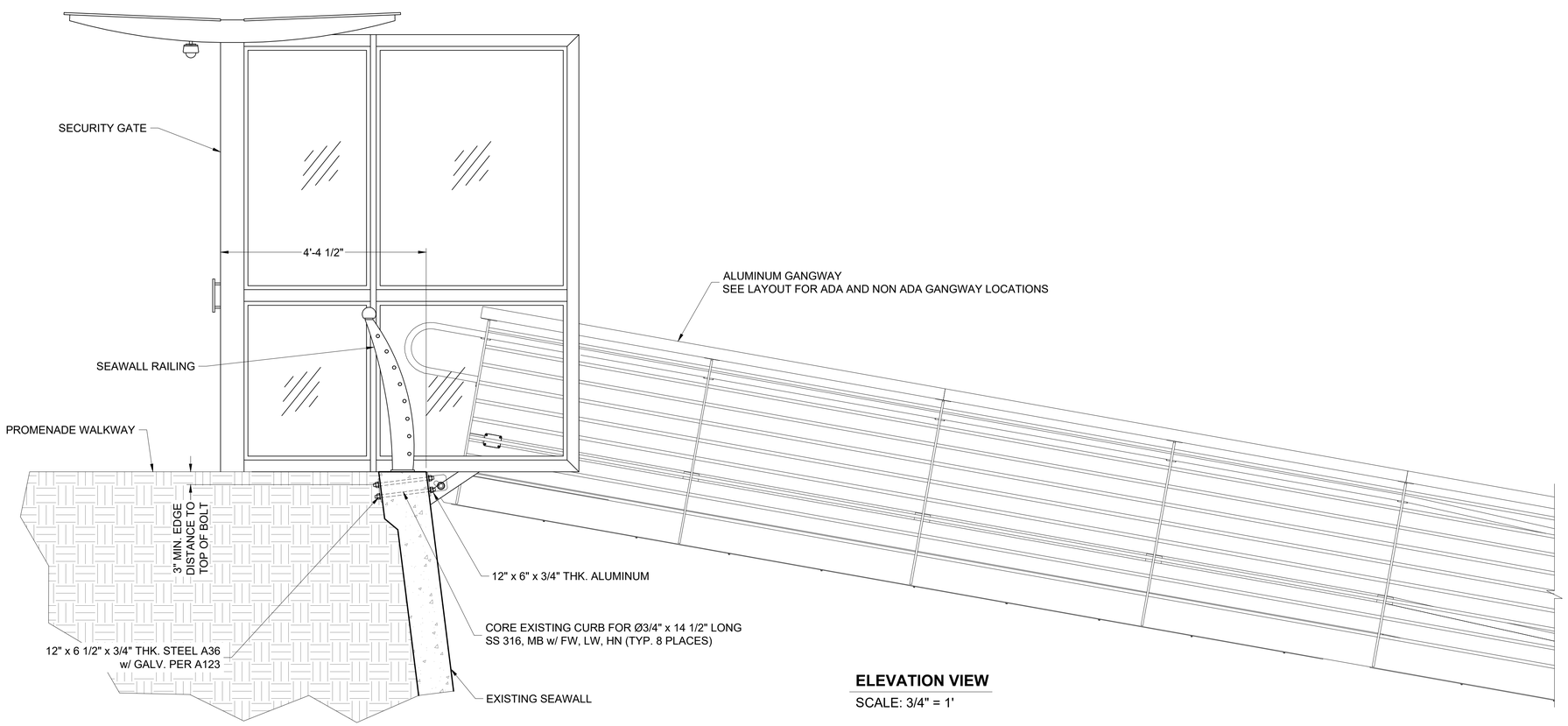
NOTES:

1.) PROVIDE MINIMUM OF (2) COATS OF BITUMINOUS PAINT ON CONCRETE AT ALL ALUMINUM CONTACT SURFACES.



PLAN VIEW

SCALE: 3/4" = 1'



ELEVATION VIEW

SCALE: 3/4" = 1'

Zoning: CanningK **3/15/2023** 6

Building&Safety: Roshanak Amirazizi **3/14/2023**

Revision: 6

Permits: BNR21-0604.R6

County of Orange - OC Public Works
OC Development Services
APPROVED

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Hadi Tabatabaee
BUILDING OFFICIAL

6

NO.	DATE	DESCRIPTION	BY
6	3-9-23	ADDED NOTE	KG
6	2-8-23	CHANGED SECURITY GATE AND GANGWAY DESIGN	RR

REVISIONS

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

GANGWAY LANDING TYPE 1 DETAILS

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.03.09
15:30:27-08'00'

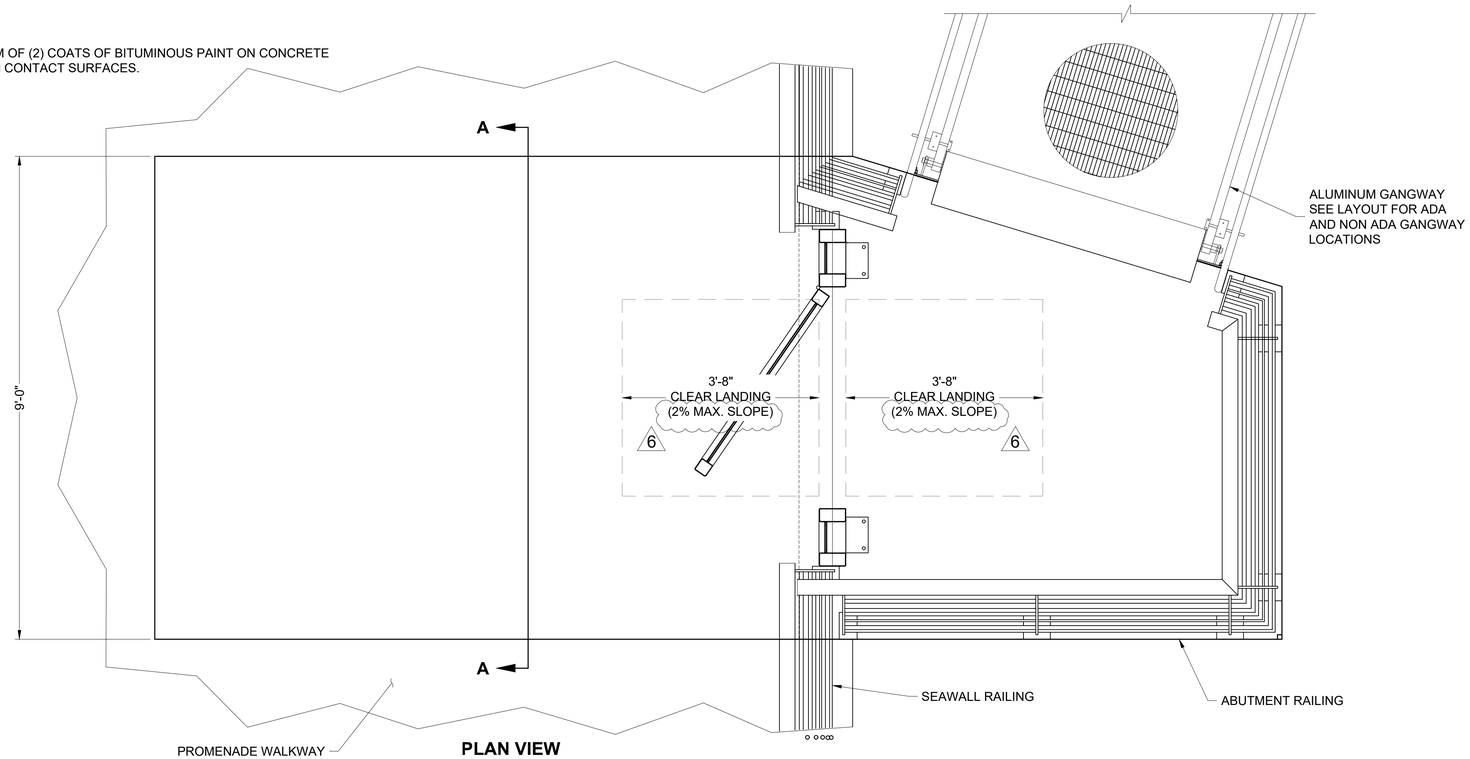
The structural system shown on these drawings, including member sizes, layout, and connection has been designed by Bellingham Marine Engineering under my supervision. No other aspects of the design including suitability for use, safety, mechanical, electrical, quantities, cut lengths and the like have been included in this review. Bellingham Marine Engineering can not be responsible for the accuracy of information provided by others.

SCALE:	3/4" = 1' (Sheet Size 24" x 36")
DRAWN BY:	KG/RR
DATE:	3/9/2023
DRAWING:	GL2
SHEET NO.:	49

PERMIT DRAWING

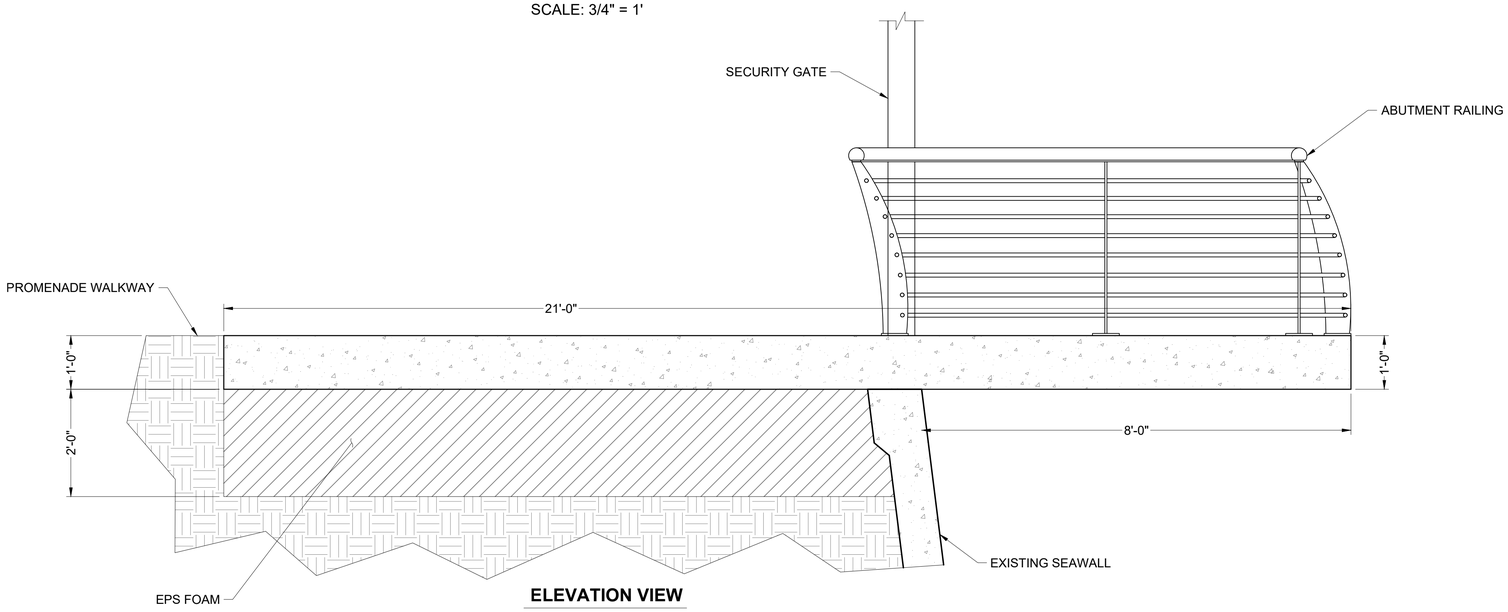
NOTES:

1.) PROVIDE MINIMUM OF (2) COATS OF BITUMINOUS PAINT ON CONCRETE AT ALL ALUMINUM CONTACT SURFACES.



PLAN VIEW

SCALE: 3/4" = 1'



ELEVATION VIEW

SCALE: 3/4" = 1'

Zoning: CanningK **3/15/2023**

Building&Safety: Roshanak Amirazizi **3/14/2023**

Revision: 6

Permits: BNR21-0604.R6

County of Orange - OC Public Works
OC Development Services
APPROVED

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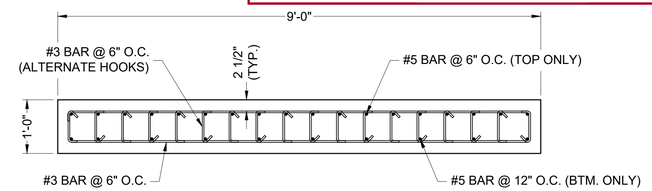
Hadi Tabatabaee
BUILDING OFFICIAL

6



SECTION A-A

A NOTE: SPECIAL INSPECTION REQUIRED

NO.	DATE	DESCRIPTION	BY
6	3-9-23	ADDED NOTE	KG
6	2-8-23	CHANGED SECURITY GATE AND GANGWAY DESIGN	RR
A	2-25-22	ADDED NOTE	KG

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

GANGWAY LANDING TYPE 2 DETAILS

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.03.09
15:30:12-08'00'

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SCALE:	3/4" = 1' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	3/9/2023
DRAWING:	GL3
SHEET NO.:	50

PERMIT DRAWING

NOTES:

1.) PROVIDE MINIMUM OF (2) COATS OF BITUMINOUS PAINT ON CONCRETE AT ALL ALUMINUM CONTACT SURFACES.

2.) FOR SECURITY GATES ON THE DOCKS, SEE SHEET 50.2.

6

Zoning: CanningK 3/15/2023 6

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

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OC Development Services
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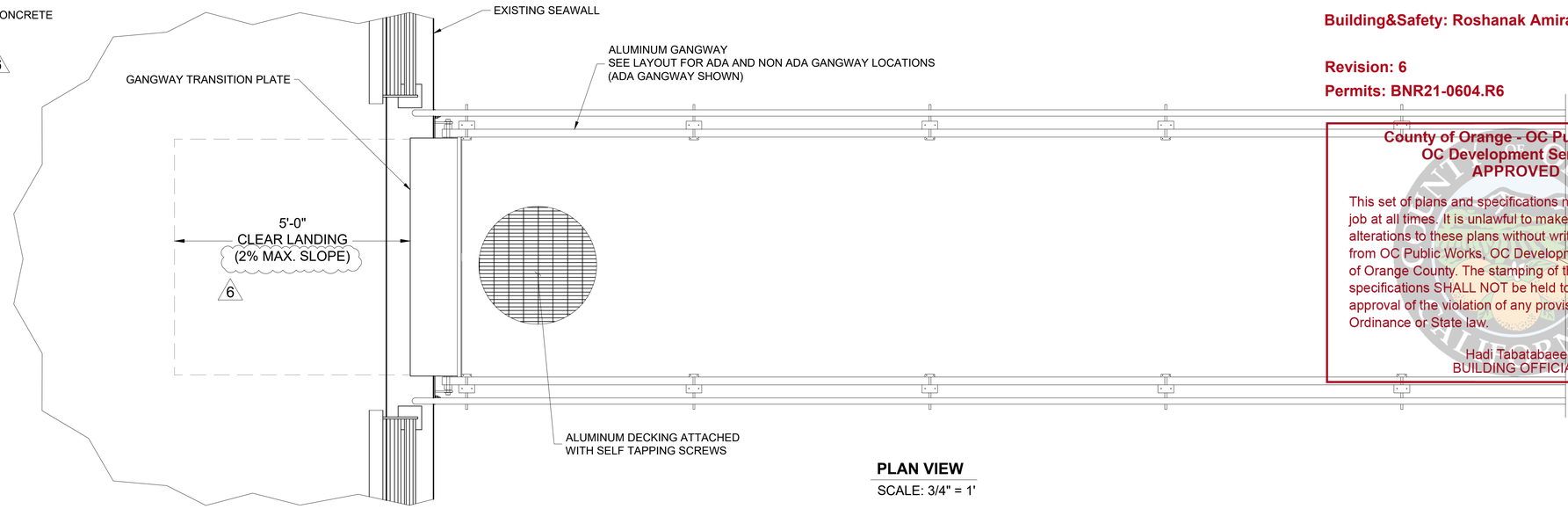
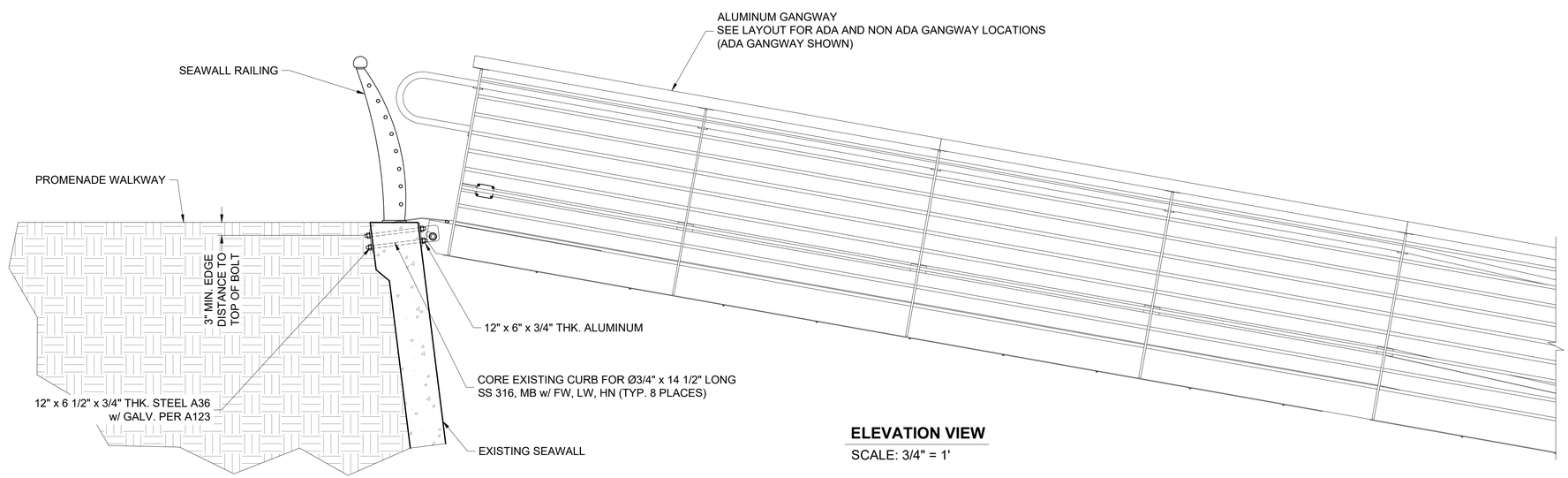
Hadi Tabatabaee
BUILDING OFFICIAL

6



PLAN VIEW

SCALE: 3/4" = 1'



ELEVATION VIEW

SCALE: 3/4" = 1'

NO.	DATE	DESCRIPTION	BY
6	3-9-23	ADDED NOTE	KG
6	2-8-23	ADDED SHEET/ DETAIL	KG

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

GANGWAY LANDING TYPE 3 DETAILS

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.03.09
15:29:57-08'00'

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SCALE:	3/4" = 1' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	3/9/2023
DRAWING:	GL4
SHEET NO.:	50.1

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

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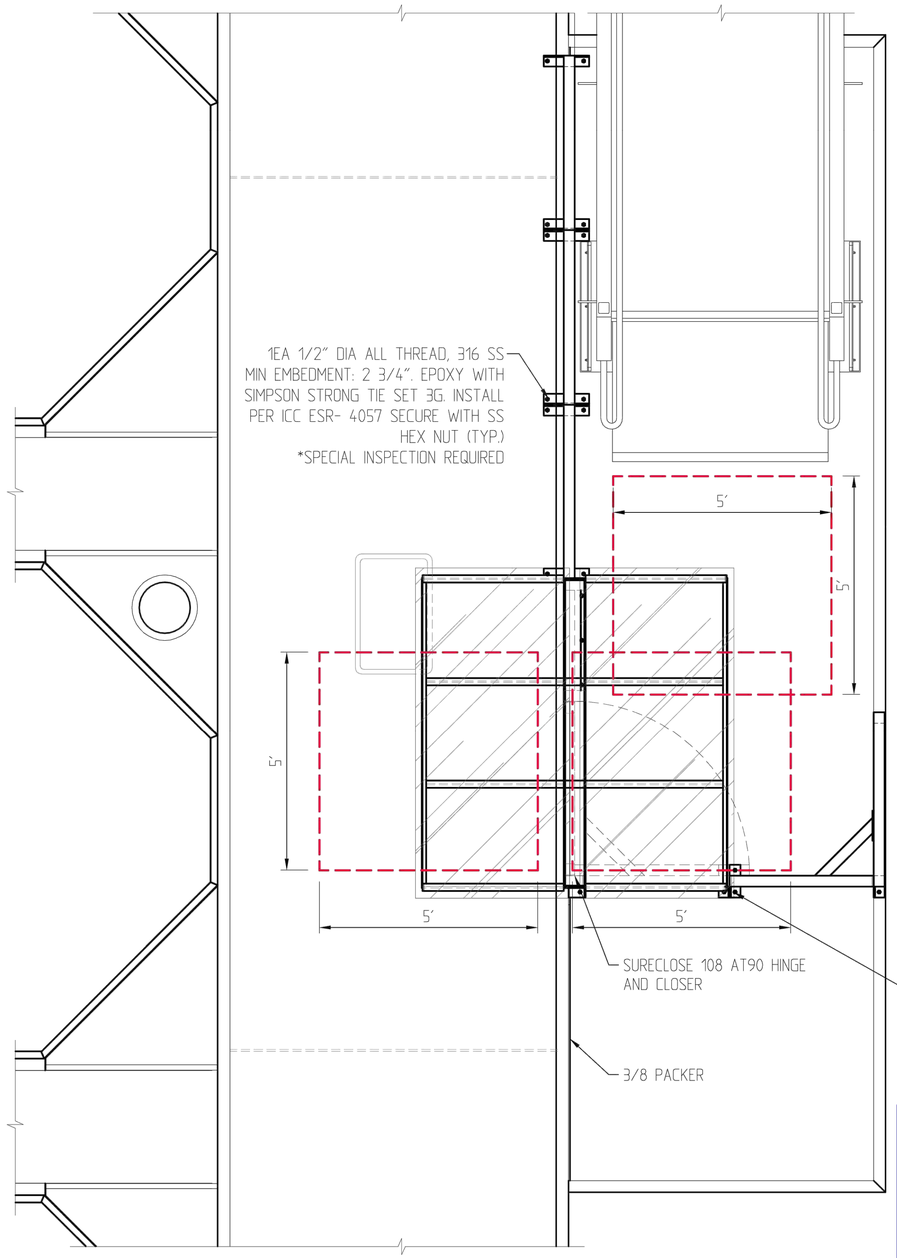
Hadi Tabatabaee
BUILDING OFFICIAL
6

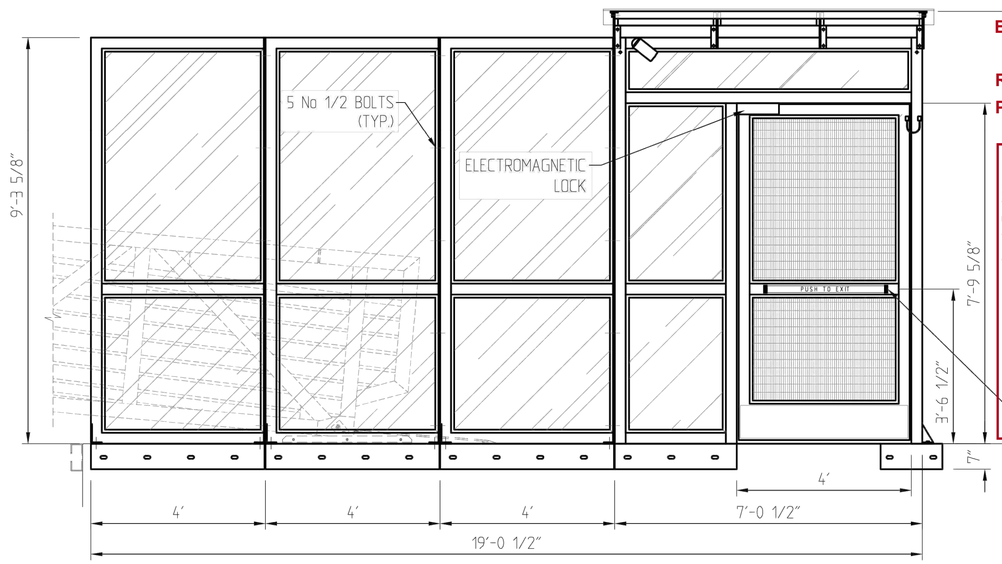
APPLICABLE CODES:
ALUMINUM DESIGN MANUAL 2015 AND 2020
IBC 2018
ASCE 7-16
CALIFORNIA BUILDING CODE 2019.
1. SPECIAL BUILDING INSPECTIONS REQUIRED FOR EPOXY ANCHORS.
2. STRUCTURAL ALUMINUM SHALL BE 6061-T6 ALUMINUM PLATE, SHEET, AND TWINING.
3. STRUCTURAL ALUMINUM SHALL BE 6061-T6 ALUMINUM UNLESS OTHERWISE SPECIFIED.
6061-T6 ALUMINUM PLATE SHARP EDGES TO BE REMOVED.
4. OPERABLE PARTS PER CBC 118-309.
5. FOR HARDWARE TO BE USED BY THE PUBLIC.
6. MANEUVERING, LANDING, CLOSING SPEED, SURFACE AND OPERATING FORCE AS PER CBC 118-404.
7. DOOR UNDERPRUNED SURFACE AS PER CBC 118-404.
8. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
9. DOOR HARDWARE AS PER CBC 1010.1.9.
10. DOOR OPENING AS PER CBC 1005.7.1.
11. DOOR SWING AS PER CBC 1010.1.2.1.
MSB550-PUSH TO EXIT BAR

DOOR CLOSER TO BE ADJUSTED SO FROM AN OPEN POSITION OF 90 DEGREES TO 12 DEGRESS TAKES AT LEAST 5 SECONDS.

OPERABLE PARTS SHALL NOT REQUIRE TIGHT GRASPING.



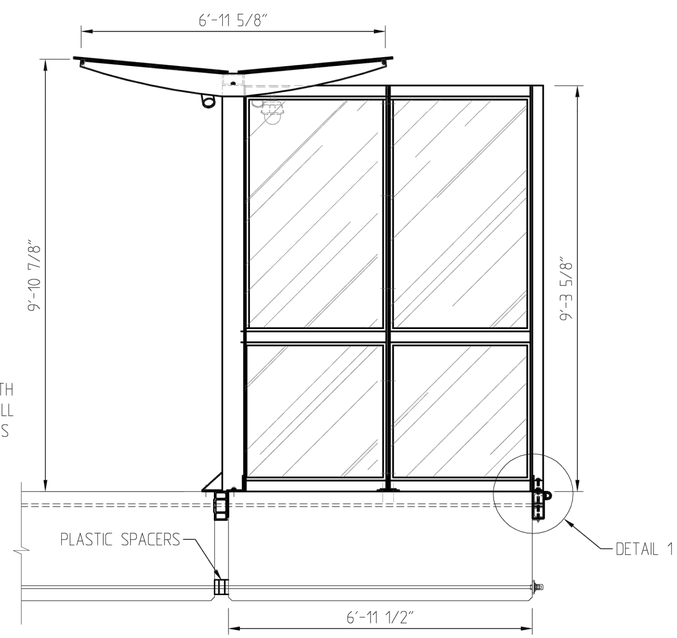
PLAN VIEW
SCALE 1 : 40



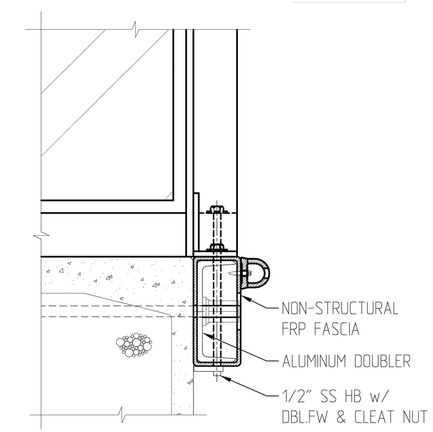
SIDE ELEVATION
SCALE 1 : 40

REGISTERED PROFESSIONAL ENGINEER
FREDERICK WILLIAM GRANTHAM
No. 82413
CIVIL
STATE OF CALIFORNIA
03/03/2023

BELLINGHAM MARINE INDUSTRIES, INC.
[X] NO EXCEPTIONS TAKEN
[ ] REVISE AND RESUBMIT (RAR)
[ ] OTHER: _____
REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH ARE TO CONFORM TO THE SHIP AND SITE DETAILS; ENGINEERING, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THEIR WORK.
Craig Funston P.E., S.E.
03/03/2023



FRONT ELEVATION
SCALE 1 : 40



DETAIL 1
SCALE 1 : 10

NO.	DATE	DESCRIPTION	BY
6	3-1-23	ADDED SHEET/ DETAIL	KG

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PROJECT NUMBER: 7341
ENGINEER / DESIGNER: -
PROJECT MANAGER: -
CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DOCK W12 ADA SECURITY GATE - GENERAL ARRANGEMENT

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SCALE: NTS (Sheet Size 24" x 36")
DRAWN BY: KG
DATE: 3/9/2023
DRAWING: GL5
SHEET NO.: 6 / 50.2

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604 R6

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OC Development Services
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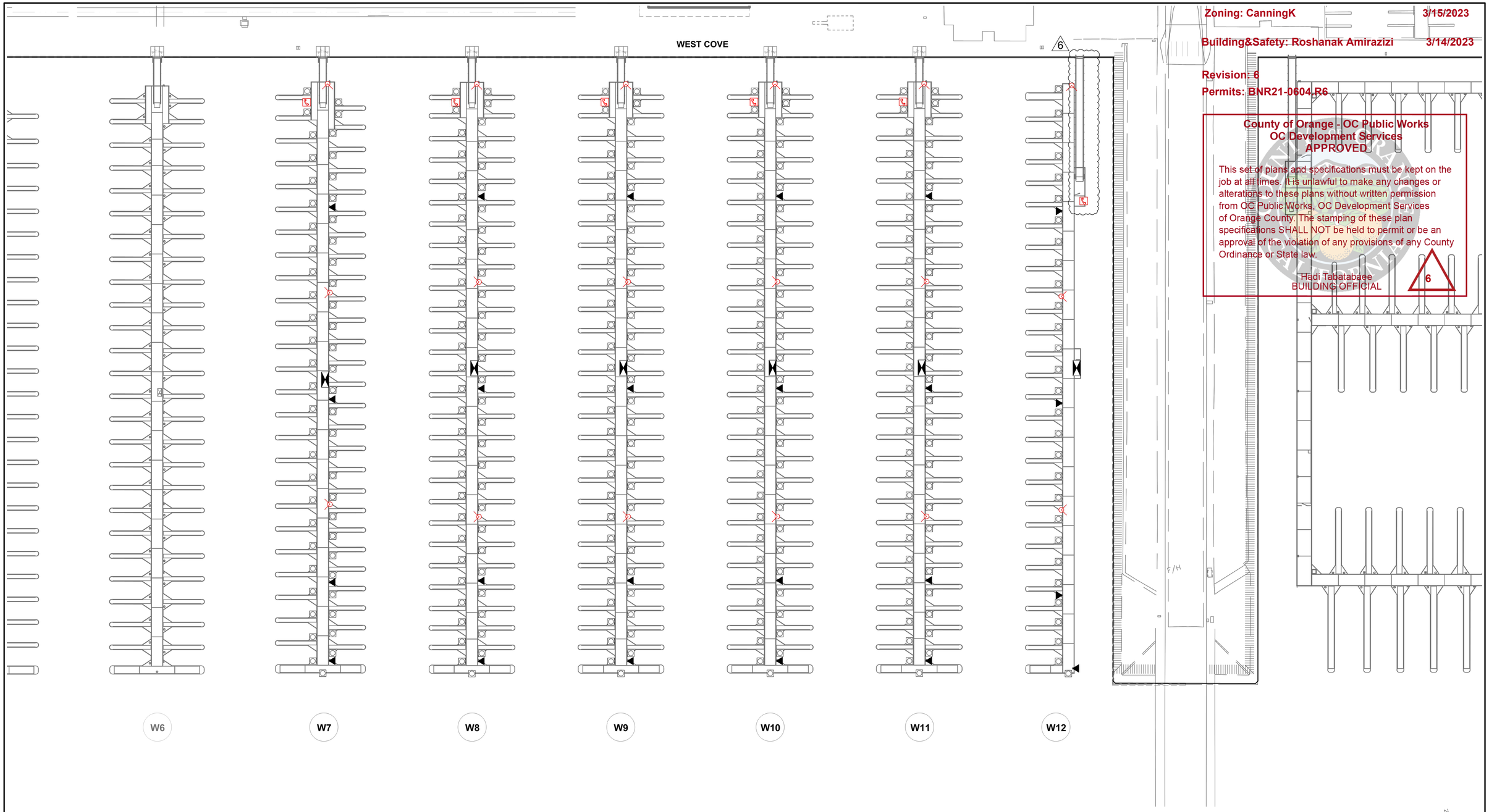
Hadi Tabatabaee
BUILDING OFFICIAL

6



LEGEND:

- = ELECTRICAL DISTRIBUTION UNIT
- = ELECTRICAL SUBSTATION
- = POWER PEDESTAL w/ HOSE BIB(S)
- = POWER POINT COMMANDER SS
- = EXTINGUISHER CABINET w/ STANDPIPE
- = EXTINGUISHER CABINET w/ OUT STANDPIPE
- = EMERGENCY CALL BOX
- = SEWER PUMP
- = SEWER PUMP HYDRANT

GRAPHIC SCALE

30' 0 20' 40' 60' 100' 180'

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY	KG

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

COMPONENTS LAYOUT FOR DOCKS W7 - W12

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:06:33-08'00'

SCALE: 1" = 30' (Sheet Size 24" x 36")

DRAWN BY: KG

DATE: 2/8/2023

DRAWING: C3

SHEET NO.: 53

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604,R6

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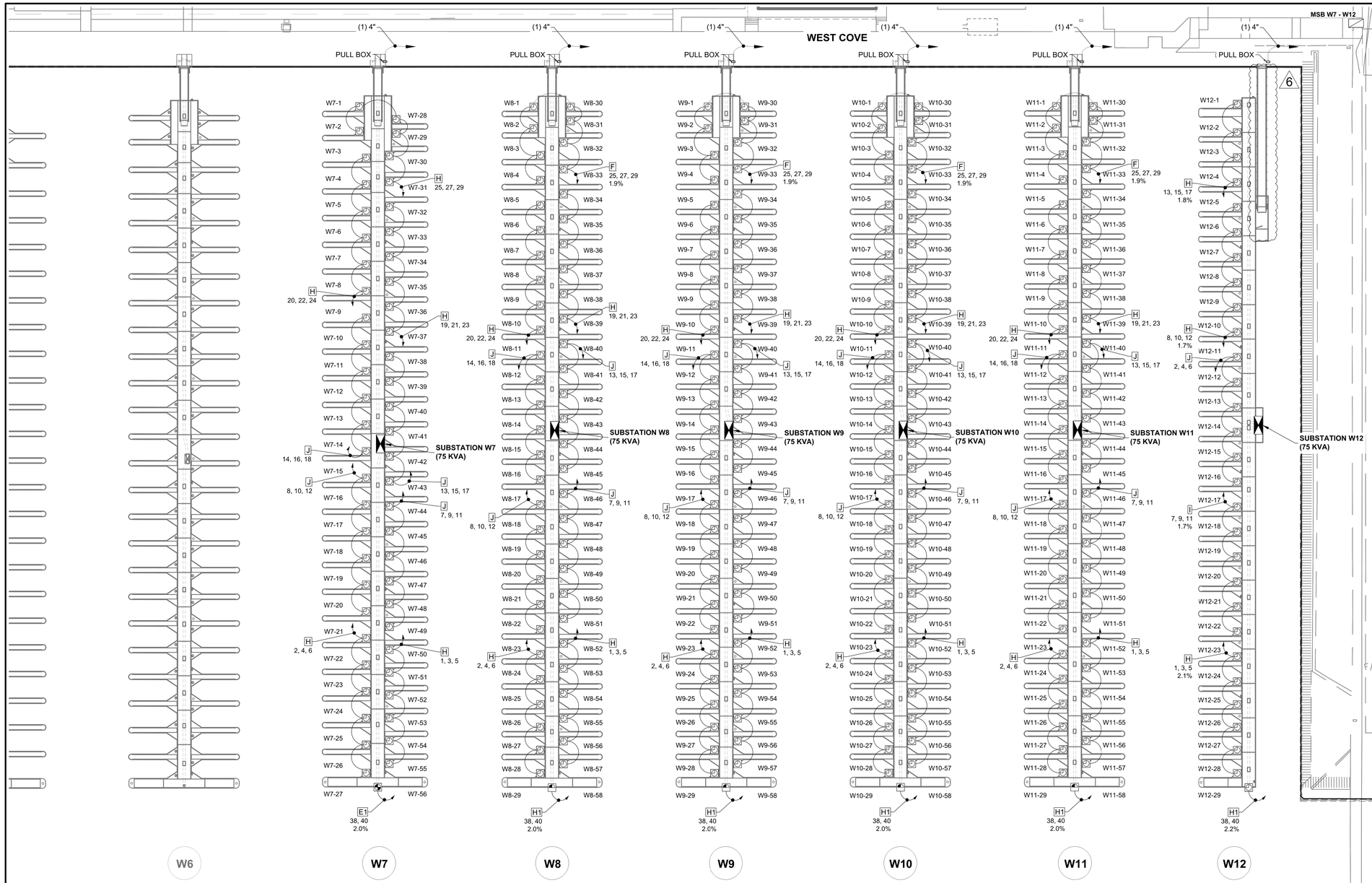
Hadi Tabatabaee
BUILDING OFFICIAL

6



NOTE:

SLIP NUMBERING SHOWN IS FOR ELECTRICAL PANEL SCHEDULE PURPOSES ONLY AND NOT INTENDED FOR MARINA OPERATION/ SLIP DESIGNATIONS.

GRAPHIC SCALE

30' 0 20' 40' 60' 100' 180'

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY	KG

REVISIONS

Bellingham MARINE®
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DIXON, CA 95620
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FAX: (707) 678-1760

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

ELECTRICAL LAYOUT FOR DOCKS W7 - W12

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C-4878 Exp. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
16:25:49-08'00'

THE ABOVE SEAL REPRESENTS REVIEW FOR LAYOUT ADJUSTMENTS RESULTING FROM ADDITION OF ADA ACCESS AT DOCK W12. NO ELECTRICAL ASPECTS HAVE BEEN CHANGED FROM PREVIOUSLY SUBMITTED SHEETS SEALED BY THE ELECTRICAL ENGINEER OF RECORD, AND NO REVIEW OF ELECTRICAL DESIGN IS IMPLIED BY THIS SEAL.

SCALE:	1" = 30' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	2/8/2023
DRAWING:	E4
SHEET NO.:	66

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604 R6

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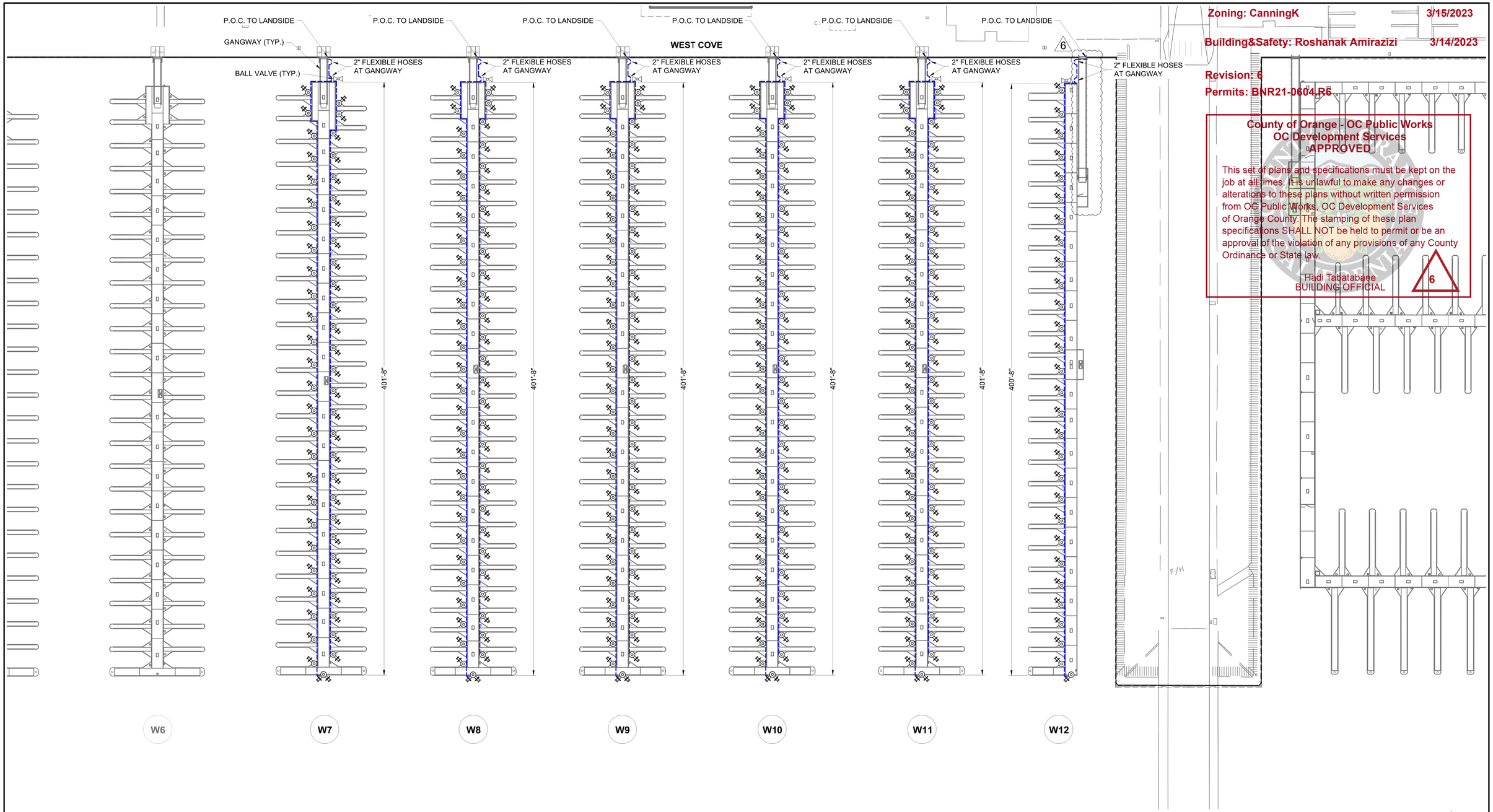
Hadi Tabatabaee
BUILDING OFFICIAL

6



LEGEND:

-------- = 2" SDR11 HDPE PIPE

= 3/4" LEAD FREE HOSE BIB w/ VACUUM BREAKER

A = BALL VALVE

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY & ADJUSTED FLOAT	KG
A	2-25-22	ADDED BALL VALVES	KG

REVISIONS

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

DOMESTIC WATER SYSTEM LAYOUT FOR DOCKS W7 - W12

REGISTERED PROFESSIONAL ENGINEER
DISTIN N. SALDIVAR
C 78722
EXP: 2023-09-30
CIVIL
STATE OF CALIFORNIA

DNS CA PE
2023.02.09
16:37:10-08'00'

SCALE:	1" = 30' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	2/8/2023
DRAWING:	DW4
SHEET NO.:	99

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604 R6

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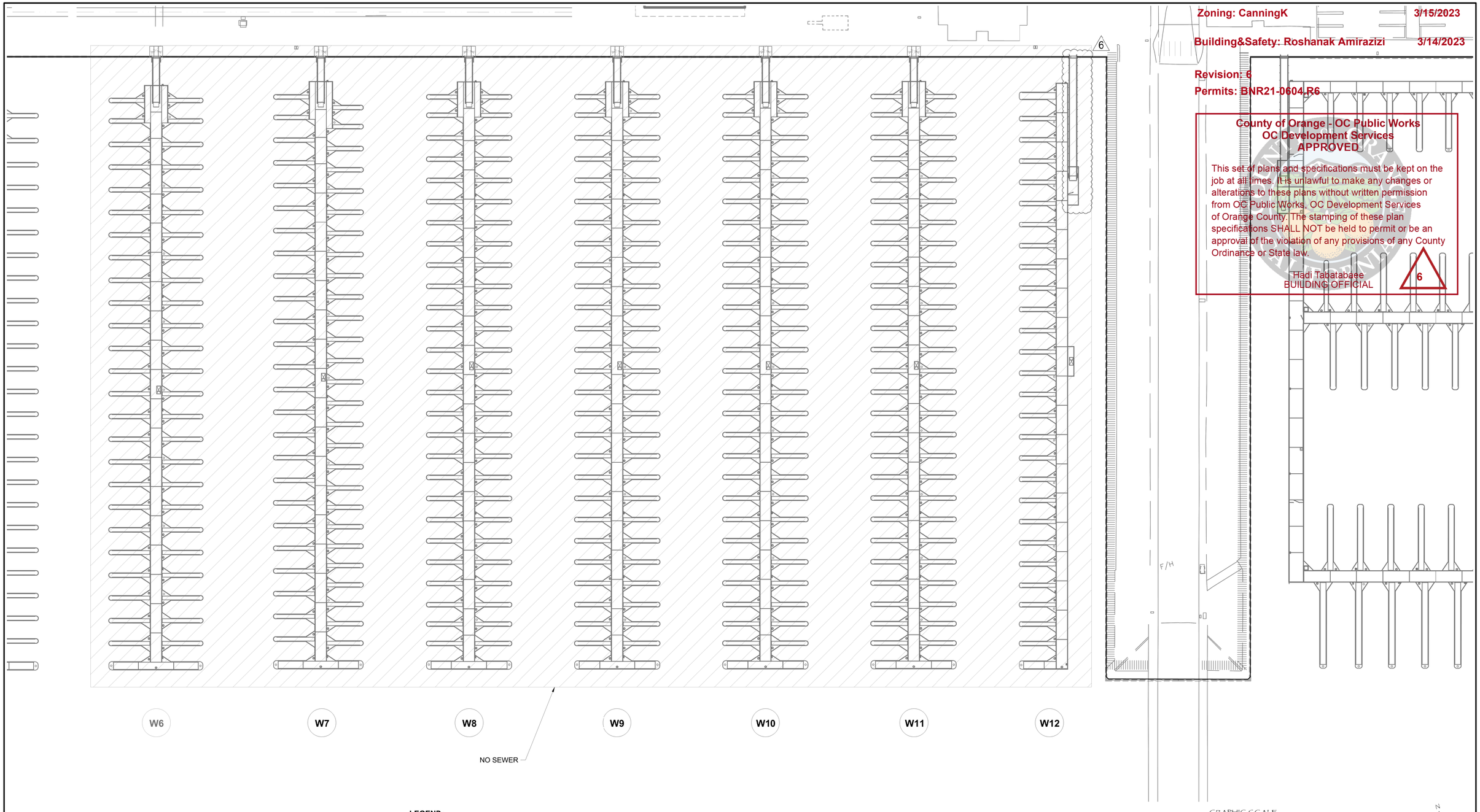
Hadi Tabatabaee
BUILDING OFFICIAL

6



LEGEND:

= 2" SDR11 HDPE PIPE (UNO)

= 3" SDR11 HDPE PIPE (UNO)

P = SEWER PUMP

= SEWER PUMP HYDRANT

GRAPHIC SCALE

30' 0 20' 40' 60' 100' 180'

NO.	DATE	DESCRIPTION	BY
6	2-8-23	ADDED ADA GANGWAY	KG

REVISIONS

Bellingham MARINE®
THE WORLD'S MOST COMPREHENSIVE MARINA BUILDER

SOUTHWEST DIVISION
CA LICENSE #442499
8810 SPARLING LANE
DIXON, CA 95620
TEL: (707) 678-2385
FAX: (707) 678-1760

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

SEWER SYSTEM LAYOUT FOR DOCKS W7 - W12

REGISTERED PROFESSIONAL ENGINEER
AUSTIN N. SALDIVAR
C 78722
Exp: 2023-09-30
CIVIL
STATE OF CALIFORNIA

DNS CA PE
2023.02.09
16:37:34-08'00'

SCALE:	1" = 30' (Sheet Size 24" x 36")
DRAWN BY:	KG
DATE:	2/8/2023
DRAWING:	S4
SHEET NO.:	116

PERMIT DRAWING

Zoning: CanningK 3/15/2023

Building&Safety: Roshanak Amirazizi 3/14/2023

Revision: 6

Permits: BNR21-0604.R6

County of Orange - OC Public Works
OC Development Services
APPROVED

This set of plans and specifications must be kept on the job at all times. It is unlawful to make any changes or alterations to these plans without written permission from OC Public Works, OC Development Services of Orange County. The stamping of these plan specifications SHALL NOT be held to permit or be an approval of the violation of any provisions of any County Ordinance or State law.

Hadi Tabatabaee
BUILDING OFFICIAL

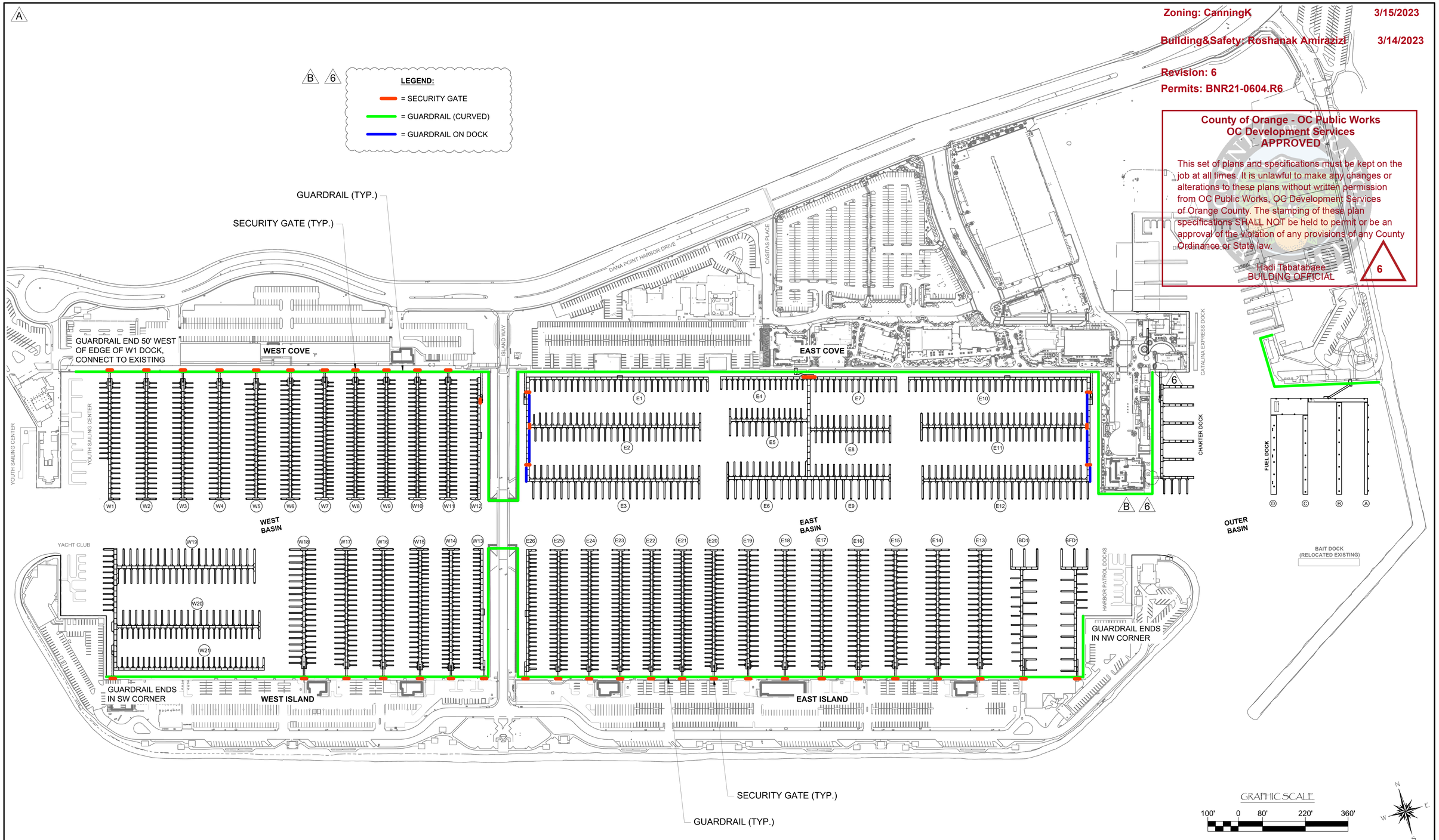
6

LEGEND:

= SECURITY GATE

= GUARDRAIL (CURVED)

= GUARDRAIL ON DOCK



NO.	DATE	DESCRIPTION	BY
6	2-8-23	REPLACED STRAIGHT GUARDRAIL WITH CURVED/ REMOVED GATES AT CHARTER DOCK	KG
B	5-10-22	ADDED LEGEND/ RECONFIGURED CHARTER DOCKS	KG
A	2-25-22	ADDED SHEET	KG

REVISIONS

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PROJECT NUMBER: 7341

ENGINEER / DESIGNER: -

PROJECT MANAGER: -

CHECKED BY: -

DANA POINT HARBOR REVITALIZATION

Harbor Drive
Dana Point, CA 92629

GATES AND GUARDRAILS LAYOUT

REGISTERED PROFESSIONAL ENGINEER CRAIG S FUNSTON C 4878 EXP. 6/30/2023 STRUCTURAL STATE OF CALIFORNIA

Craig S Funston
2023.02.09
14:06:08-08'00'

The structural system shown on these drawings, including member sizes, layout, and connection has been designed by Bellingham Marine Engineering under my supervision. No other aspects of the design including suitability for use, safety, mechanical, electrical, quantities, cut lengths and the like have been included in this review. Bellingham Marine Engineering can not be responsible for the accuracy of information provided by others.

SCALE: 1" = 140' (Sheet Size 24" x 36")

DRAWN BY: KG

DATE: 2/8/2023

DRAWING: RS1

SHEET NO.: 130