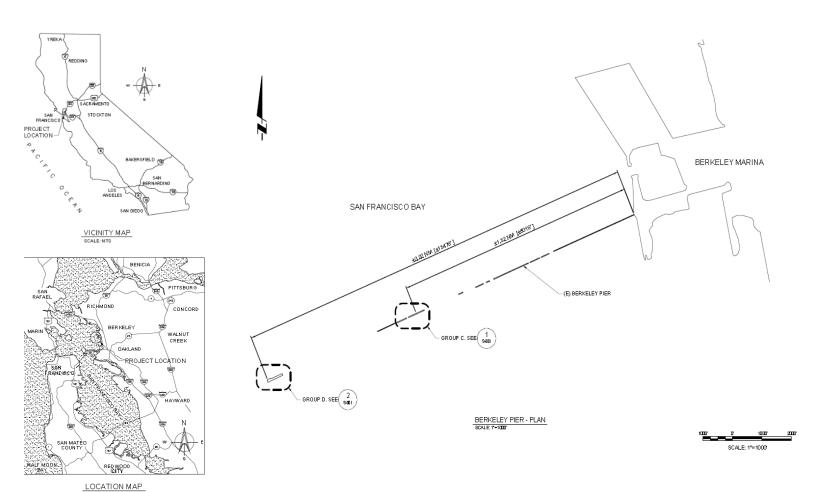
STATE OF CALIFORNIA THE NATURAL RESOURCES AGENCY DEPARTMENT OF FISH AND WILDLIFE **ENGINEERING UNIT**





SCALE: NTS

SHEET INDEX

NAVD

- TITLE SHEET
 GENERAL NOTES
 SITE PLAN AND SECTION
 SECTIONS AND DETAILS

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF SITE EVALUATION, AND THE INSTALLATION OF A BIRD HABITAT ON THE ABANDONED PORTION OF THE EXISTING BERKELEY PIER. THE BIRD HABITAT WILL PROVIDE INCREASED NESTING AND ROOSTING OPPORTUNITIES FOR CORMORANTS, PELICANS, GULLS, AND SHOREBIRDS.

THE PROJECT SHALL CONFORM TO THE APPLICABLE STATE AND FEDERAL CODES AS SHOWN BELOW:

2016 CALIFORNIA BUILDING CODE, VOLUMES 1, AND 2, TITLE 24, PART 2, (CBC) (2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS).

ABBREVIATIONS

ACI	AMERICA NICONORETE		VERTICAL DATUM
	INSTITUTE	NO	NUMBER
AISC	AMERICAN INSTITUTE	NTS	NOTTO SCALE
	OF STEEL	OC	ONCENTER
	CONSTRUCTION	OD	OUTSIDE DIAMETER
APPROX	APPROXIMATE	OPP	OPPOSITE
ASTU	AMERICAN SOCIETY	OW	OILYWASTE
	FOR TESTING AND	PCF	POUND PER CUBIC
	MATERIALS		FOOT
BOT	воттом	PL	PLATE
CLR	CLEAR	PSF	POUNDS PER
CONC	CONCRETE		SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER
DIM	DIMENSION		SQUARE INCH
EA	EACH	R	RADIUS
EL	ELEVATION	REINF	REINFORCING
ELEV	ELEVATION	REQD	REQUIRED
BN	EACHWAY	SCH	SCHEDULE
EXIST	EXISTING	SF	SQUARE FOOT or
FT	FOOTorFEET		FEET
GALV	GALVANIZED	SIM	SIMILAR
Н	HEIGHT	92	SQUARE
HORE	HORIZONTAL	SS	STAINLESS STEEL
ID	INSIDE DIAMETER	STA	STATION
L	LENGTH	STD	STANDARD
LB	POUND	SYM	SYMMETRICAL
LF	LINEAR OF LINEAL	THD	THREAD
	FEET	THRU	THROUGH
MAX	MAXIMUM	TOT	TOTAL
MIN	MINIMUM	TYP	TYPICAL
MIL DO	MEAN LOWER LOW	UON	UNLESSOTHERWISE
	WATER		NOTED
N	NORTH	VAR	VARIES

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GENERAL NOTES

- 1. THE PROJECT REQUIRES THE IMPLEMENTATION OF A BEST MANAGEMENT PRACTICES PLAN (BMP) DURING ALL CONSTRUCTION TO PREVENT/MINIMIZE CONSTRUCTION RELATED MATERIALS AND DEBRIS FROM ENTERING THE WATER.
- a. NO DEBRIS SHALL BE ALLOWED TO ENTER THE WATER, THE CONTRACTOR SHALL PROVIDE A SUITABLE POSITIVE MEANS OF CAPTURING DEBRIS FROM CONSTRUCTION.
- b. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO COMPLETE A VISUAL SITE INSPECTION TO ENSURE NO TRASH, DEBRIS, OR CONSTRUCTION MATERIALS ARE IN THE WATER, SHORE, OR BAY FLOOR. IF ANY TRASH, DEBRIS, OR CONSTRUCTION MATERIALS ARE FOUND IN SUCH LOCATIONS, THE CONTRACTOR SHALL IMMEDIATELY REMOVE AND PROPERLY DISPOSE THE MATERIALS.
- 2. ELEVATIONS ARE IN FEET REFERENCED TO MLLW, BASED ON STATION 9414750, ALAMEDA,

WATER LEVEL	ELEVATION (FT)
MEAN HIGHER HIGH WATER (MHHW)	6.60
MEAN HIGH WATER (MHW)	5.98
MEAN TIDE LEVEL (MTL)	3.56
MEAN LOW WATER (MLW)	1.14
MEAN LOWER LOW WATER (MLLW)	0.00

- SITE PLAN AND CONDITIONS ARE BASED UPON DRAWINGS BY FRANK G. WHITE DATED AUGUST 1938 AND BY FIELD INSPECTIONS CONDUCTED IN SEPTEMBER OF 2019 AND JULY OF 2020.
- 4. PROTECT ALL EXISTING SITE FEATURES NOT CALLED OUT TO BE DEMOLISHED. CONTRACTOR TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES TO REMAIN.
- 5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY.
- 6. VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. NOTIFY OWNER OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OF FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS THE CONTRACTOR SHALL OBTAIN WRITTEN DIRECTION FROM OWNER BEFORE PROCEEDING.
- 7. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

CODES AND STANDARDS

- 1. 2016 CALIFORNIA BUILDING CODE (CBC).
- 2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), STEEL CONSTRUCTION MANUAL 14TH EDITION.
- 3. AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. ASCE 7-10.
- 4. AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318-14.

DESIGN CRITERIA

- A. VERTICAL DEAD LOAD
- A.1.DEAD LOAD = ACTUAL WEIGHT OF STRUCTURAL ELEMENTS
- A.2. ALLOWANCE FOR FUTURE DL = 15 PSF
- B. VERTICAL LIVE LOAD
- B.1. UNIFORM LIVE LOAD = 40 PSF
- B.2. POINT LOAD = 300 LBS
- C. WIND LOAD
- •DESIGN WIND SPEED = 100 MPH
- •RISK CATEGORY = I
- •EXPOSURE CATEGORY = D

STRUCTURAL STEEL

1. SHAPES, PLATES AND HARDWARE

1.1.ANGLES: ASTM A36, GRADE 36 1.2.HSS SHAPES: ASTM A500 GRADE B

1.3. STEEL PLATE: ASTM A36, GRADE 36

1.4. BOLTS: ASTM A307 GRADE A 1.5. U-BOLTS: ASTM A307 GRADE A

- 2. ALL STEEL ITEMS SHALL BE HOT-DIPPED GALVANIZED.
- 3. ALL STEEL SHAPES, PLATES AND ASSEMBLIES SHALL BE GALVANIZED AFTER FABRICATION UON.
- 3. BOLTS SHALL HAVE FLAT WASHERS AT THE NUT AND HEAD.
- 4. SEAL WELD ALL EXPOSED STEEL-TO-STEEL INTERFACES.
- 5. STEEL FABRICATIONS SHALL BE FABRICATED BY AN AISC CERTIFIED FABRICATOR.

WELDING

- 1. WELDING SHALL CONFORM TO AWS D1.1. WELD CONSUMABLES SHALL BE E70XX.
- 2. CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURES TO THE ENGINEER FOR PREAPPROVAL.

FIBER REINFORCED POLYMER GRATING (FRP)

- 1. ALL FRP PANELS SHALL BE PROGrid MOLDED GRATING OR ENGINEER APPROVAL EQUAL
- 2. TOP SURFACE SHALL BE MENISCUS FINISH.
- 3. COLOR SHALL BE GRAY.

NEOPRENE BEARING PADS

- 1. NEOPRENE BEARING PADS SHALL BE 60 SHORE A HARDNESS
- 2. MULTIPLE THICKNESSES SHALL BE AVAILABLE DURING CONSTRUCTION TO ACCOMMODATE BENT TO BENT TOP OF BENT ELEVATION VARIATIONS .

REMOVAL NOTES

1. THE SITE SHALL BE CLEANED OF DEBRIS AT THE END OF EACH DAY.

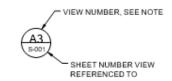
SURFACE PREPARATION

1. TRIM REINFORCING STEEL AND TIES PROTRUDING FROM THE SURFACE OF THE EXISTING PILE OR BENT CAP TO PROVIDE AN EVEN SURFACE TO INSTALL BEARING PADS AND BEAMS.

PERMITS

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE REGULATORY WORK WINDOW AND PERMIT CONDITIONS PER PERMITS FROM THE FOLLOWING AGENCIES: U.S ARMY CORPS OF FINGINFERS
- •REGIONAL WATER QUALITY CONTROL BOARD
- *BAY CONSERVATION AND DEVELOPMENT COMMISSION (BCDC)

CROSS-REFERENCE LEGEND



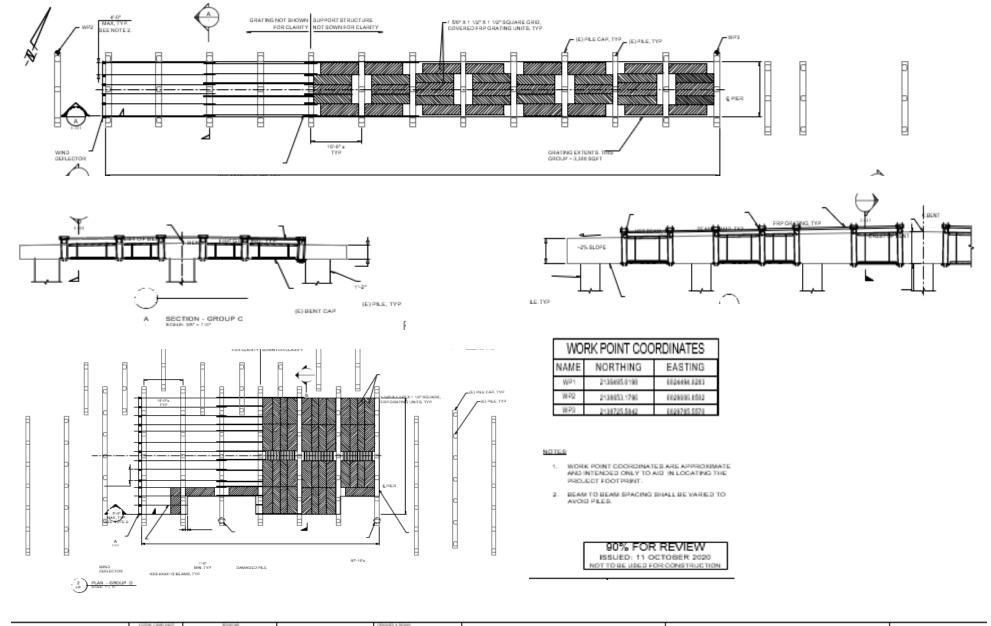
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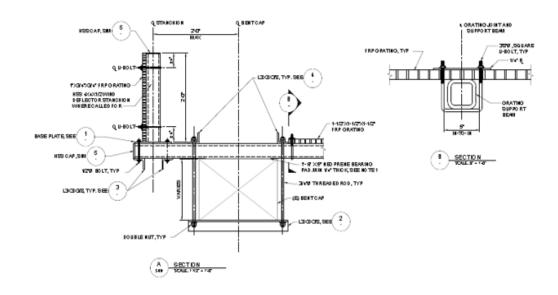
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Reviewed by:					CHEF ENGINEER	DATE	Engineering Branch

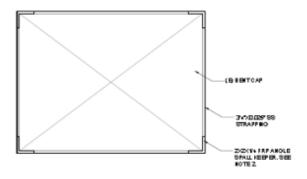
BERKELEY, CALIFORNIA
BERKELEY PIER BIRD HABITAT
GENERAL NOTES
Region 3

Sheet2 of4	
Drawing Number: G-002	

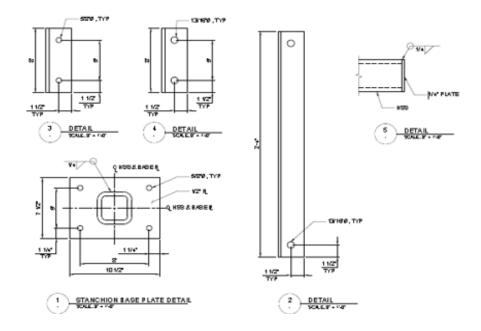


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SPAN				•	FLAN AND SECTION	S-001
Entered by:			(CHIEF TOWNS)	Engineering Branch	Region 3	





D SECTION - CONCRETE CORNER SPALL KEEPERS



NOTES

- CONTRACTOR TO RAYEMULTIPLE THICH BESSOF MED PREME BEARING PAGES IN HAND AT TIME OF BEAR PLACEMENT.
- "SPALL KEEP ER" SHALL BE INSTALLED AT ALL+
 CO RUERBOT CONORETE BENTOWITHIN BRO HABITAT
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