

PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

# CITY OF SANTA BARBARA

## ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION 65% DESIGN

PROJECT NO. XXXX, BID NO. XXXX

### PROJECT DATA

PROJECT OWNER: CITY OF SANTA BARBARA PUBLIC WORKS DEPARTMENT

PROJECT TEAM: ANCHOR QEA, LLC.  
301 EAST OCEAN BLVD  
SUITE 1860  
LONG BEACH, CA 90802  
(657) 227-7430  
CONTACT: JACK MALONE

EXISTING AND PROPOSED USE: PARKS AND RECREATION

ADDRESSES: ANDRÉE CLARK BIRD REFUGE  
1100 E CABRILLO BLVD  
SANTA BARBARA, CA 93103  
  
MUNICIPAL TENNIS COURTS  
1414 PARK PL  
SANTA BARBARA, CA 93103

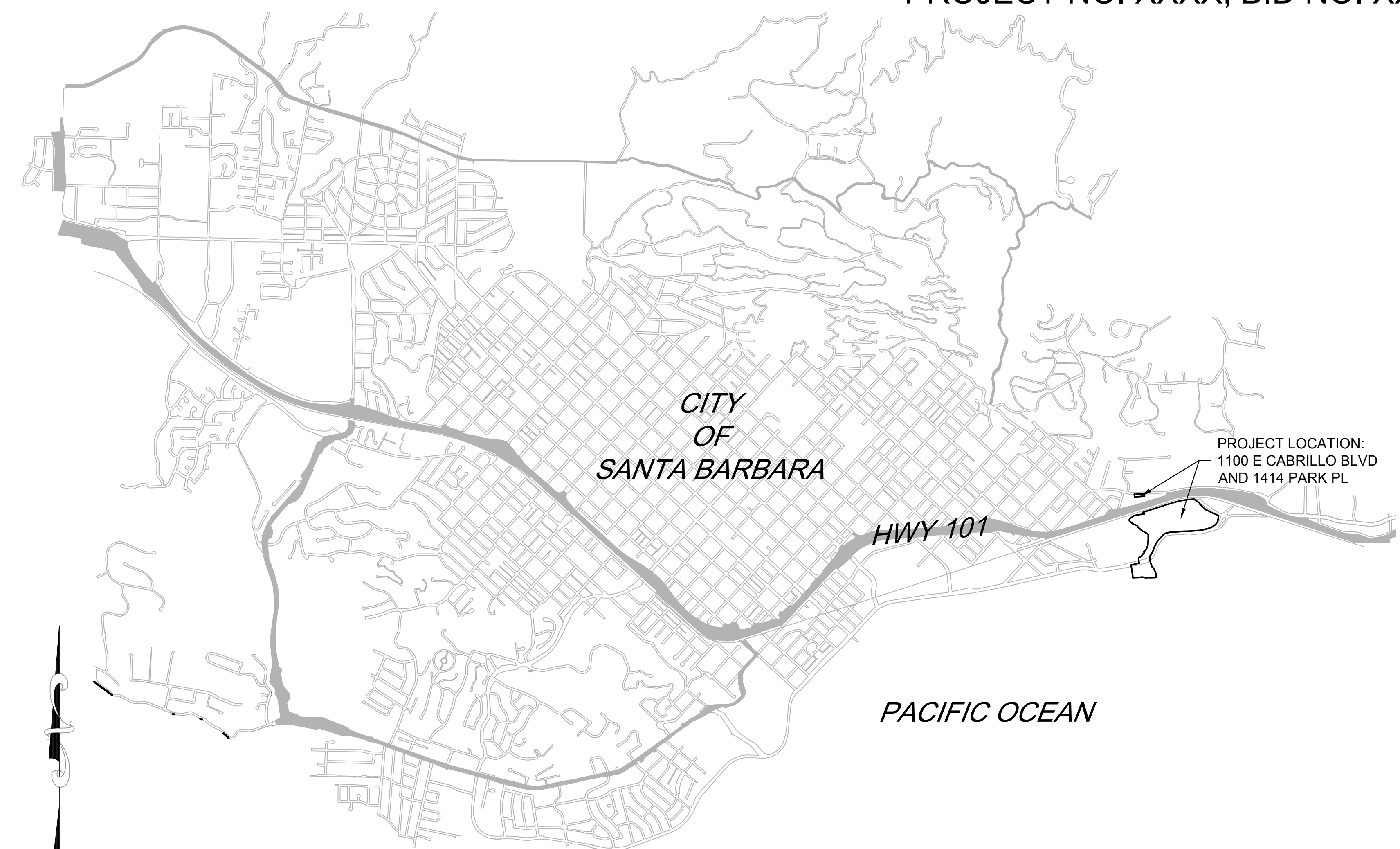
ZONING ORDINANCE AND ZONE DISTRICTS: TITLE 28, P-R/S-D-3  
GENERAL PLAN LAND USE DESIGNATION: RECREATIONAL AND OPEN SPACE  
COASTAL ZONE DESIGNATION: APPEALABLE, NON-APPEALABLE, AND PERMIT JURISDICTIONS.  
DESIGNATION:  
FLOODPLAIN DESIGNATION: ZONE AE AND ZONE VE

PROJECT SITE PARKING: 15 STALLS (14 STANDARD/1 ADA) AT ACBR PARKING LOT OFF LOS PATOS WAY TO EAST OF PROJECT SITE

PROPOSED IMPERVIOUS BIORETENTION BASIN OUTLET; REPLACE 3 SF (DEMOLISH EXISTING CHANNEL WALL AND AREA: CONSTRUCT NEW PORTION OF WALL/HEADWALL FOR OUTLET); NEW 8 SF (NEW PORTION OF HEADWALL AT BIORETENTION BASIN) BIORETENTION BASIN INLET; REPLACE 3 SF (CONSTRUCT RAISED WEIR IN EXISTING CHANNEL TO DIVERT FLOW TO BIORETENTION BASIN). NEW 26 SF (INLET HEADWALL, WINGWALLS, AND PAD AT BIORETENTION BASIN). WEIR; REPLACE 21 SF (EXISTING WEIR HEADWALL) WITH 50 SF (NEW WEIR HEADWALL AND GATE WALLS) FOR A NEW IMPERVIOUS AREA OF 29 SF. REMOVE 7 SF (EXISTING MANHOLE COVER WITH PERVIOUS GRATING).

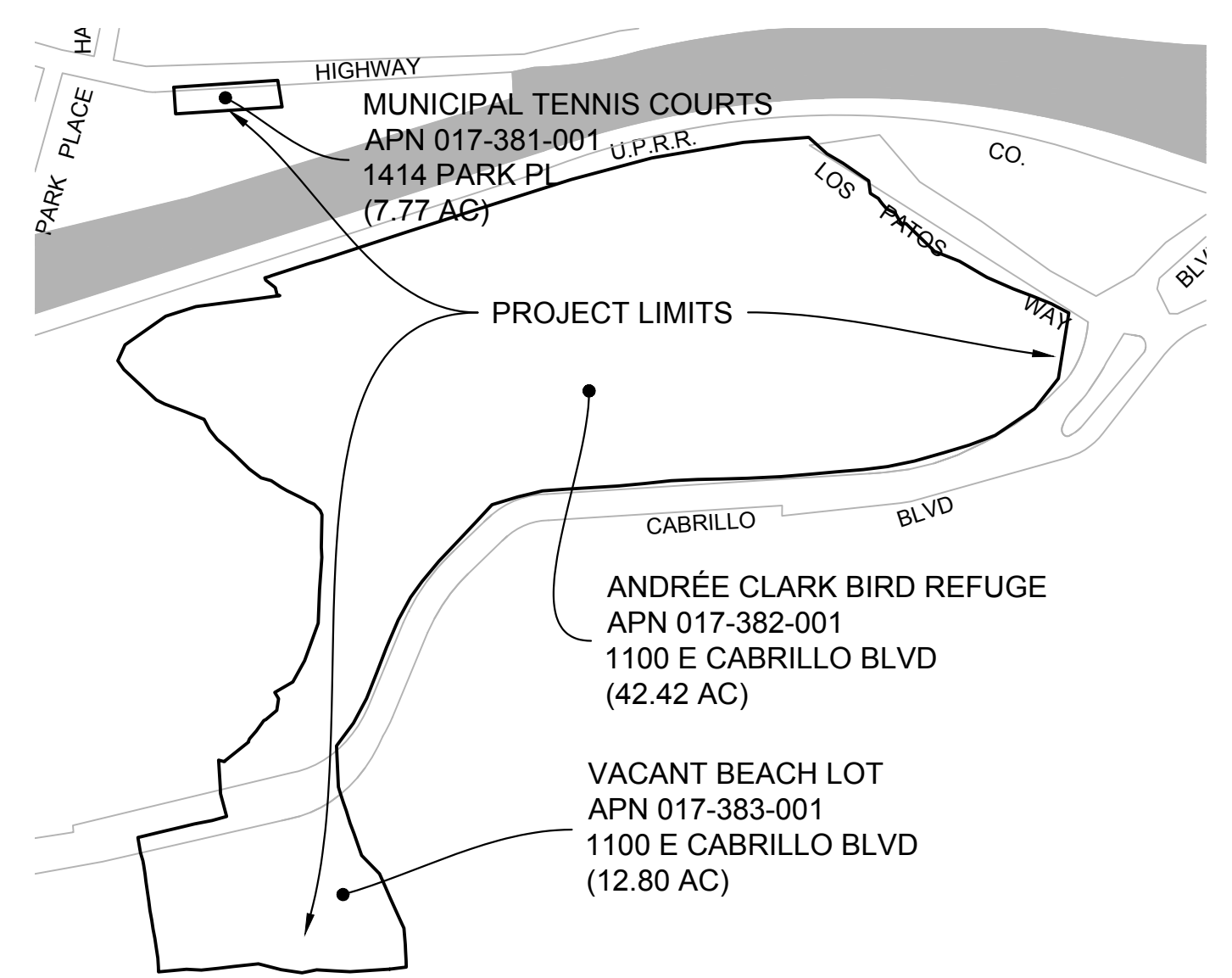
ESTIMATED GRADING CUT = 2,400 CY  
QUANTITIES: FILL = 2,360 cy

SCOPE OF WORK THE PROJECT CONSISTS OF REPLACEMENT OF THE ANDREE CLARK BIRD REFUGE LAGOON WEIR AND WEIR GATE, REMOVAL OF APPROXIMATELY 74 NON-NATIVE TREES, RECONTOURING PORTIONS OF THE LAGOON SHORELINE, RECONTOURING THE MOUTH OF THE LAGOON ON THE BEACH SIDE (ADJACENT TO THE VOLLEYBALL COURTS), SEASONAL LOWERING OF THE SAND BERM AT THE MOUTH OF THE LAGOON ON THE BEACH SIDE, INSTALLATION OF NATIVE PLANTS AND ROCK CLUSTERS ALONG THE MARGIN OF THE LAKE, ISLANDS AND MOUTH OF THE LAGOON, AND INSTALLATION OF NEW INTERPRETATIVE SIGNS. TIER 2 STORMWATER IMPROVEMENTS ARE SATISFIED BY THE LANDSCAPING IMPROVEMENTS. CONSTRUCTION OF A BIO-RETENTION BASIN WILL ALSO OCCUR AT THE MUNICIPAL TENNIS CENTER PROPERTY, LOCATED AT 1414 PARK PLACE.



VICINITY MAP

N.T.S.



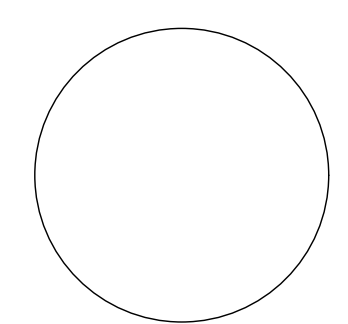
PROJECT LOCATION MAP

N.T.S.

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2	G-2.0	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
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4	G-4.0	PROPERTY OWNERSHIP
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8	V-1.2	EXISTING CONDITIONS PLAN (2 OF 9)
9	V-1.3	EXISTING CONDITIONS PLAN (3 OF 9)
10	V-1.4	EXISTING CONDITIONS PLAN (4 OF 9)
11	V-1.5	EXISTING CONDITIONS PLAN (5 OF 9)
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DRAWING INDEX		
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25	C-1.4	GRADING AND CONST. MAT. PLAN (4 OF 9)
26	C-1.5	GRADING AND CONST. MAT. PLAN (5 OF 9)
27	C-1.6	GRADING AND CONST. MAT. PLAN (6 OF 9)
28	C-1.7	GRADING AND CONST. MAT. PLAN (7 OF 9)
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DRAWING INDEX		
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43	L-1.4	PLANTING PLAN (4 OF 9)
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45	L-1.6	PLANTING PLAN (6 OF 9)
46	L-1.7	PLANTING PLAN (7 OF 9)
47	L-1.8	PLANTING PLAN (8 OF 9)
48	L-1.9	PLANTING PLAN (9 OF 9)
49	L-2.0	PLANTING SCHEDULE
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52	L-5.0	PLANTING DETAILS
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Know what's below.  
Call before you dig.

### ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION COVER SHEET

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
G-1.0  
DWG. NO. \_\_\_\_\_  
SHT. 1 OF 53

FUND MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
SUPERVISING CIVIL ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**PROJECT NARRATIVE**

THE PROJECT WILL RESTORE A 30-ACRE COASTAL LAGOON TO IMPROVE WATER QUALITY AND WILDLIFE HABITAT. THE PROJECT INCLUDES THE FOLLOWING COMPONENTS:

- RESTORATION OF 5 ACRES OF SALT MARSH AND UPLAND HABITAT AROUND THE PERIMETER OF THE LAGOON AND ISLANDS.
- RESTORATION OF 1.4 ACRES OF DUNE, SALT MARSH, AND OPEN WATER HABITAT AT THE MOUTH OF THE LAGOON.
- PERIODIC BREACH PRIMING OF THE SAND BERM AT THE MOUTH OF THE LAGOON USING EQUIPMENT AND MACHINERY TO LOWER THE SAND BERM ELEVATION TO ALLOW THE LAGOON TO NATURALLY FILL, OVERTOP, AND FLOW TO THE OCEAN.
- REMOVE AND REPLACE THE WEIR/DAM AND WEIR GATE AT EAST CABRILLO BLVD. IMPROVING WATER FLOW BETWEEN THE UPPER LAGOON AND BEACH LAGOON/OCEAN.
- CONSTRUCT A LOW FLOW WATER TREATMENT WETLAND ON OPEN SPACE WITHIN THE MUNICIPAL TENNIS CENTER NORTH OF THE LAGOON. THE RESTORED WETLANDS WILL IMPROVE HYDROLOGIC FUNCTION, CONNECTIVITY TO THE OCEAN, AVIAN HABITAT, AQUATIC HABITAT, AND WATER QUALITY.

**GENERAL CONSTRUCTION NOTES:**

- CONTRACT DOCUMENTS INCLUDE THESE DRAWINGS AND PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL WORK AS INDICATED ON THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE BY THE CONTRACTING OFFICER OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
- DETAILS ARE INTENDED TO SHOW THE FINAL RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED BY THE CONTRACTING OFFICER TO SUIT JOB SITE DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, ROADWAY, DRAINAGE WAYS, CULVERTS, AND VEGETATION UNTIL SUCH ITEMS ARE TO BE DISTURBED OR REMOVED AS INDICATED ON THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL KEEP PROJECT AREA CLEAN AND HAZARD-FREE. CONTRACTOR SHALL DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH FOR DURATION OF THE WORK. UPON COMPLETION OF WORK, CONTRACTOR SHALL REMOVE ALL MATERIAL AND EQUIPMENT NOT SPECIFIED AS REMAINING WITHIN THE PROJECT AREA.
- REPRESENTATIONS OF TRUE NORTH SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THIS JOB SITE.
- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK. NOTES AND DETAILS ON THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER GENERAL NOTES HEREON.
- DIMENSION CALLOUTS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE CONTRACT DOCUMENTS.
- THE CONTRACT DOCUMENTS REPRESENT THE FINISHED GRADES AND SURFACES. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURES, WORKERS, AND THE PUBLIC DURING CONSTRUCTION.
- ASTM, AASHTO, AND OTHER STANDARD SPECIFICATIONS NOTED ON THE CONTRACT DOCUMENTS SHALL BE OF THE LATEST VERSION, UNLESS NOTED OTHERWISE.
- TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT AND SUBJECT TO ALL LOCAL, STATE, AND/OR FEDERAL REGULATIONS.
- CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCEMENT OF THE CONSTRUCTION. MEETING LOCATION, DATE, AND TIME TO BE DETERMINED BY THE CONTRACTING OFFICER.

**STANDARD CIVIL NOTES:**

- ALL SITE WORK SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS.
- DO NOT EXCAVATE OR DISTURB BEYOND THE JOB SITE AREA UNLESS NOTED OTHERWISE.
- RUBBISH, DEBRIS, GARBAGE, AND OTHER REFUSE SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF LEGALLY.
- NO TOPSOIL, ORGANIC SPOILS, FILL, EXCAVATED MATERIAL, RIP RAP, CONSTRUCTION MATERIAL, EQUIPMENT, OR ANY OTHER SUCH ITEMS SHALL BE PLACED, STOCKPILED, OR PARKED IN THE ROADWAY SUCH THAT IT WOULD PREVENT A MINIMUM WIDTH OF 12-FEET FOR TRAFFIC CLEARANCE.
- ANY BACKFILL, NOT OTHERWISE DESCRIBED ON THE CONTRACT DOCUMENTS, MUST BE PLACED WITH A MAXIMUM LIFT DEPTH OF 12-INCHES OR AS INSTRUCTED BY CONTRACTING OFFICER. CONTRACTOR AND ITS EMPLOYEES SHALL PROVIDE SAFETY TRAINING FOR THE WORK CREW PRIOR TO STARTING THE PROJECT.
- THE AREAS OF THE JOB SITE DISTURBED BY THE WORK SHALL BE GRADED SMOOTH TO THE PRE-CONSTRUCTION GRADE, DECOMPACTED AND PROTECTED AND/OR REVEGETATED AS SPECIFIED HEREON.
- ALL MATERIALS SHALL BE NEW AND UNDAMAGED, UNLESS OTHERWISE APPROVED BY THE CONTRACTING OFFICER. THE SAME MANUFACTURER OF EACH ITEM SHALL BE USED THROUGHOUT THE WORK UNLESS OTHERWISE APPROVED BY THE CONTRACTING OFFICER.

**TESC NOTES:**

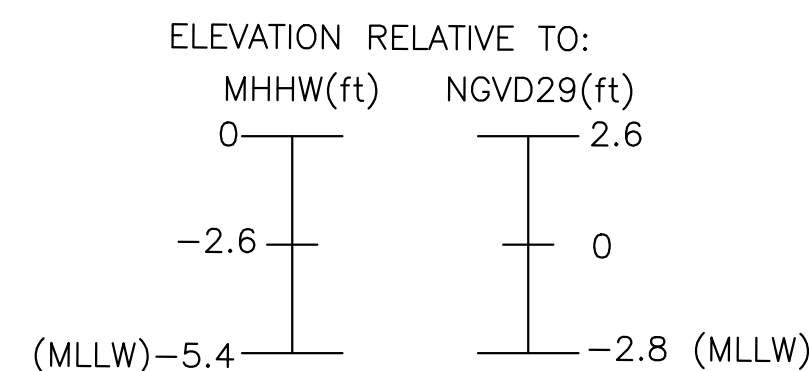
- DURING CLEARING, EARTH MOVING AND/OR GRADING PHASES OF THE PROJECT, WATER TRUCKS OR SPRINKLER SYSTEMS SHALL BE USED IN SUFFICIENT QUANTITIES TO PREVENT DUST FROM LEAVING THE SITE. IN ADDITION, THE ENTIRE AREA OF DISTURBED SOILS SHALL BE WETTED DOWN DURING THE EARLY MORNING HOURS AND AT THE END OF EACH DAY IN SUCH A MANNER AS TO CREATE A CRUST.
- DURING THE CONSTRUCTION PHASE OF THE PROJECT, WATER TRUCKS OR SPRINKLER SYSTEMS SHALL BE USED TO KEEP ALL AREAS OF VEHICULAR MOVEMENT DAMP ENOUGH TO PREVENT DUST RAISED FROM LEAVING THE SITE. AS A MINIMUM, THIS WILL INCLUDE THE WETTING DOWN OF SUCH AREAS IN THE LATE MORNING HOURS AND AT THE CLOSE OF EACH DAYS ACTIVITIES.
- ALL TRUCKS HAULING SOIL MATERIALS TO AND FROM THE SITE SHALL BE COVERED WITH A TARP TO PREVENT DUST FROM BLOWING OFF THE TRUCK.
- ALL ALLEYWAYS, CIRCULATION ROUTES, HAUL ROUTES, STREETS AND SIDEWALKS SHALL BE KEPT CLEAN AND CLEAR OF DIRT, DUST, AND DEBRIS IN A MANNER ACCEPTABLE TO THE CITY OF SANTA BARBARA'S PUBLIC WORKS DEPARTMENT AS OUTLINED IN THEIR "PROCEDURES FOR THE CONTROL OF RUNOFF INTO STORM DRAINS AND WATERCOURSES". AT A MINIMUM, SAID AREAS SHALL BE CLEANED AT THE END OF EACH WORKING DAY OR MORE OFTEN IF DIRECTED BY CITY PERSONNEL. THE FLUSHING OF DIRT AND DEBRIS TO STORM DRAIN OR SANITARY SEWER FACILITIES SHALL NOT BE PERMITTED. FAILURE TO KEEP THESE AREAS CLEAN WILL RESULT IN THE ISSUANCE OF A "STOP WORK" ORDER, WHICH WILL NOT BE RELEASED UNTIL SUCH TIME AS THE AREA IS CLEANED IN A MANNER ACCEPTABLE TO THE CITY. EARTH MOVING AND GRADING ACTIVITIES SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 AM AND 6:00 PM, OR AS SPECIFIED IN THE APPROVED EROSION CONTROL PLAN OR THE PROJECT CONDITIONS OF APPROVAL.
- AFTER COMPLETION OF CLEARING, GRADING, OR EXCAVATION PHASE, THE ENTIRE AREA OF DISTURBED SOIL SHALL BE TREATED TO PREVENT WIND PICK UP OF THE SOIL BY ANY ONE OF THE FOLLOWING METHODS: SEEDING OR WATERING OF THE SITE UNTIL SUCH TIME AS THE GROUND COVER HAS TAKEN ROOT, SPREADING OF SOIL BINDERS, WETTING DOWN OF THE AREA IN SUCH A MANNER AS TO CREATE A CRUST ON THE SURFACE AND THE REPEATED SOAKING OF THE AREA, AS NECESSARY, TO MAINTAIN THE CRUST AND PREVENT SOIL BLOWING.
- THE CONTRACTOR SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE STORM WATER POLLUTION PREVENTION AND DUST CONTROL PROGRAMS, AND TO ORDER INCREASED WATERING AS NECESSARY TO PREVENT THE TRANSPORT OF DUST OFF-SITE, AND ADDITIONAL BMPs TO PREVENT STORM WATER POLLUTANTS FROM ENTERING PUBLIC RIGHT OF WAY. THE PERSONS DUTY SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN THE WORK MAY NOT BE IN PROGRESS. THE NAME AND TELEPHONE OF SUCH PERSON OR PERSONS SHALL BE PROVIDED TO THE CITY OF SANTA BARBARA COMMUNITY DEVELOPMENT DEPARTMENT AND BE PLACED ON THE PLANS.

**UTILITY NOTES:**

- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE LOCATIONS OF EXISTING UTILITIES HAVE NOT BEEN FIELD VERIFIED. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE DIG ALERT UTILITY LOCATION REQUEST CENTER (ONE-CALL CENTER) AT 811 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE THE SCHEDULED DATE FOR EARTHWORK OR TRENCHING THAT MAY IMPACT EXISTING UTILITIES, UNLESS OTHERWISE NOTED.
- ALL ABANDONED UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE VERIFIED BY THE CONTRACTING OFFICER AND THE UTILITY FRANCHISE PRIOR TO DISTURBING THE UTILITIES. ONLY AFTER WRITTEN APPROVAL OF DISTURBANCE OR MODIFICATION OF THE UTILITY FROM THE UTILITY FRANCHISE IS RECEIVED BY THE CONTRACTING OFFICER MAY THE CONTRACTOR TAKE ACTION.
- SIZE, LOCATION, AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY THE CONTRACTOR AND ISSUED TO THE CONTRACTING OFFICER AT COMPLETION OF THE PROJECT.

**SURVEY NOTES:**

- TOPOGRAPHIC SURVEYS CONDUCTED BY BILL CARR SURVEYS (NOVEMBER 2018) AND CLE ENGINEERING (OCTOBER 2016).
- HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
- VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.

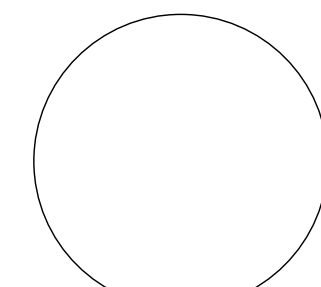


**EXISTING SYMBOL LEGEND**

—W— EXISTING WATER MAIN	—CTV— EXISTING CABLE TV	⊕ EXISTING WATER METER
—RW— EXISTING RECYCLED WATER MAIN	— — EXISTING EDGE OF PAVEMENT	⊙TMH EXISTING TELEPHONE MANHOLE
—G— EXISTING GAS MAIN	— — EXISTING FLOWLINE	□E EXISTING ELECTRIC PULL BOX
—S— EXISTING SEWER MAIN	—O— EXISTING FENCE	● EXISTING POWER POLE
—E— EXISTING SCE MAIN	⊕FH EXISTING FIRE HYDRANT	⊕ EXISTING STREET SIGN
—T— EXISTING TELEPHONE MAIN	⊕ EXISTING WATER VALVE	⊙ EXISTING STREET LIGHT
—SD— EXISTING STORM DRAIN MAIN	⊕GV EXISTING GAS VALVE	⊙ EXISTING CITY MONUMENT
--- PARCEL BOUNDARY	⊕GM EXISTING GAS METER	⊙ EXISTING IP SURVEY MARKER

**ABBREVIATION LEGEND**

BM BENCHMARK	MH MANHOLE
BOW BACK OF WALK	MHHW MEAN HIGHER HIGH WATER
CTV CABLE TELEVISION	NTS NOT TO SCALE
DIA. DIAMETER	R/W RIGHT OF WAY
E ELECTRICAL	S SEWER
ELEV ELEVATION	SD STORM DRAIN
ECONC EDGE OF CONCRETE	T TELEPHONE
FH FIRE HYDRANT	TC TOP OF CURB
FL FLOW LINE	TMH TELEPHONE MANHOLE
FOW FRONT OF WALK	P PAVEMENT
G GAS	W WATER



PROJECT ENGINEER DATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN APPROVED: \_\_\_\_\_  
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 65%  
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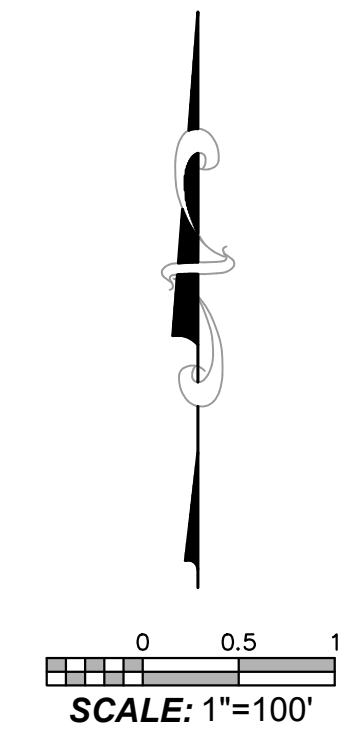
ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
 GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

PBW. NO. \_\_\_\_\_  
 BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
**G-2.0**  
 DWG. NO. \_\_\_\_\_  
 SHT. 2 of 53

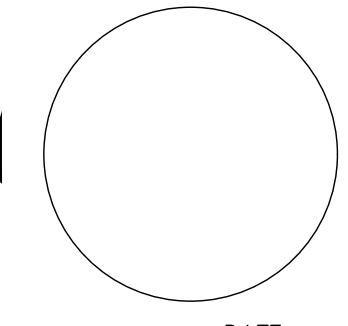


**LEGEND**

- HIGH WATER ELEVATION (+4.88' NGVD29)
- MHHW
- PARCEL BOUNDARY



PROPERTY LINES ARE APPROXIMATE



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ENGINEERING DIVISION

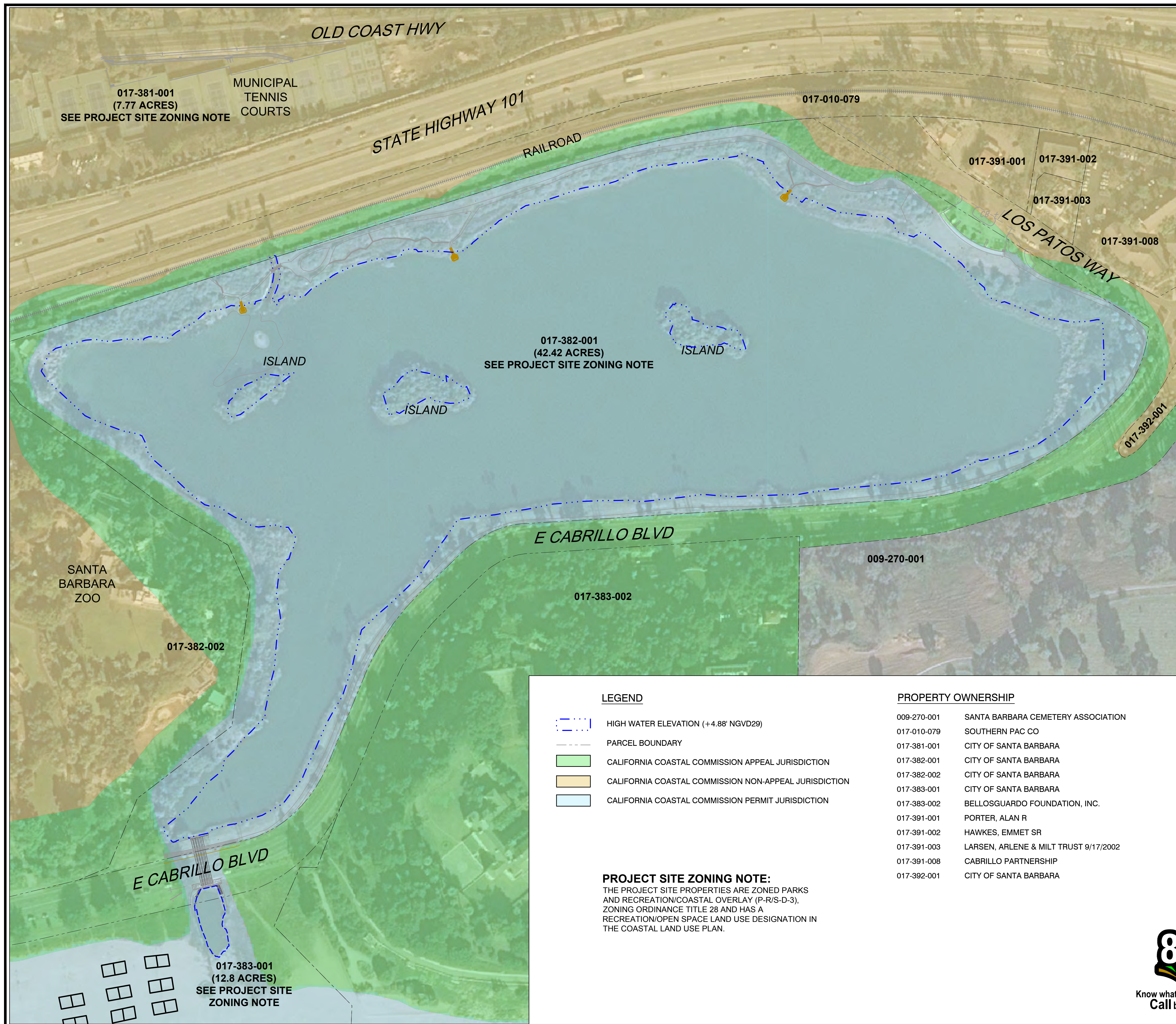
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ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
SHEET LAYOUT

PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
G-3.0  
DWG. NO. \_\_\_\_\_  
SHT. 3 OF 53



017-381-001  
(7.77 ACRES)  
SEE PROJECT SITE ZONING NOTE

MUNICIPAL  
TENNIS  
COURTS

OLD COAST HWY

STATE HIGHWAY 101

RAILROAD

017-010-079

017-391-001

017-391-002

017-391-003

017-391-008

LOS PATOS WAY

017-382-001  
(42.42 ACRES)  
SEE PROJECT SITE ZONING NOTE

ISLAND

ISLAND

ISLAND

017-392-001

E CABRILLO BLVD

009-270-001

017-383-002

SANTA  
BARBARA  
ZOO

017-382-002

E CABRILLO BLVD

017-383-001  
(12.8 ACRES)  
SEE PROJECT SITE  
ZONING NOTE

**LEGEND**

- HIGH WATER ELEVATION (+4.88' NGVD29)
- PARCEL BOUNDARY
- CALIFORNIA COASTAL COMMISSION APPEAL JURISDICTION
- CALIFORNIA COASTAL COMMISSION NON-APPEAL JURISDICTION
- CALIFORNIA COASTAL COMMISSION PERMIT JURISDICTION

**PROJECT SITE ZONING NOTE:**  
THE PROJECT SITE PROPERTIES ARE ZONED PARKS AND RECREATION/COASTAL OVERLAY (P-R/S-D-3), ZONING ORDINANCE TITLE 28 AND HAS A RECREATION/OPEN SPACE LAND USE DESIGNATION IN THE COASTAL LAND USE PLAN.

**PROPERTY OWNERSHIP**

- 009-270-001 SANTA BARBARA CEMETERY ASSOCIATION
- 017-010-079 SOUTHERN PAC CO
- 017-381-001 CITY OF SANTA BARBARA
- 017-382-001 CITY OF SANTA BARBARA
- 017-382-002 CITY OF SANTA BARBARA
- 017-383-001 CITY OF SANTA BARBARA
- 017-383-002 BELLOSGUARDO FOUNDATION, INC.
- 017-391-001 PORTER, ALAN R
- 017-391-002 HAWKES, EMMET SR
- 017-391-003 LARSEN, ARLENE & MILT TRUST 9/17/2002
- 017-391-008 CABRILLO PARTNERSHIP
- 017-392-001 CITY OF SANTA BARBARA



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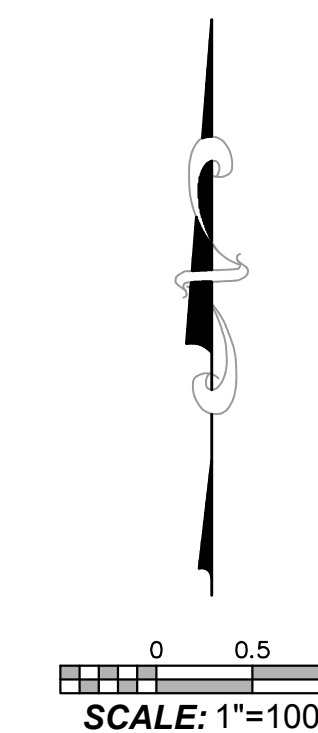
DESIGN MW  
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DATE	APPROVED

NO. \_\_\_\_\_ REVISIONS

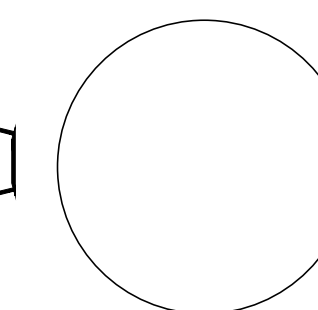
4/9/2020 3:37 PM; Erik Pipkin

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PROPERTY OWNERSHIP



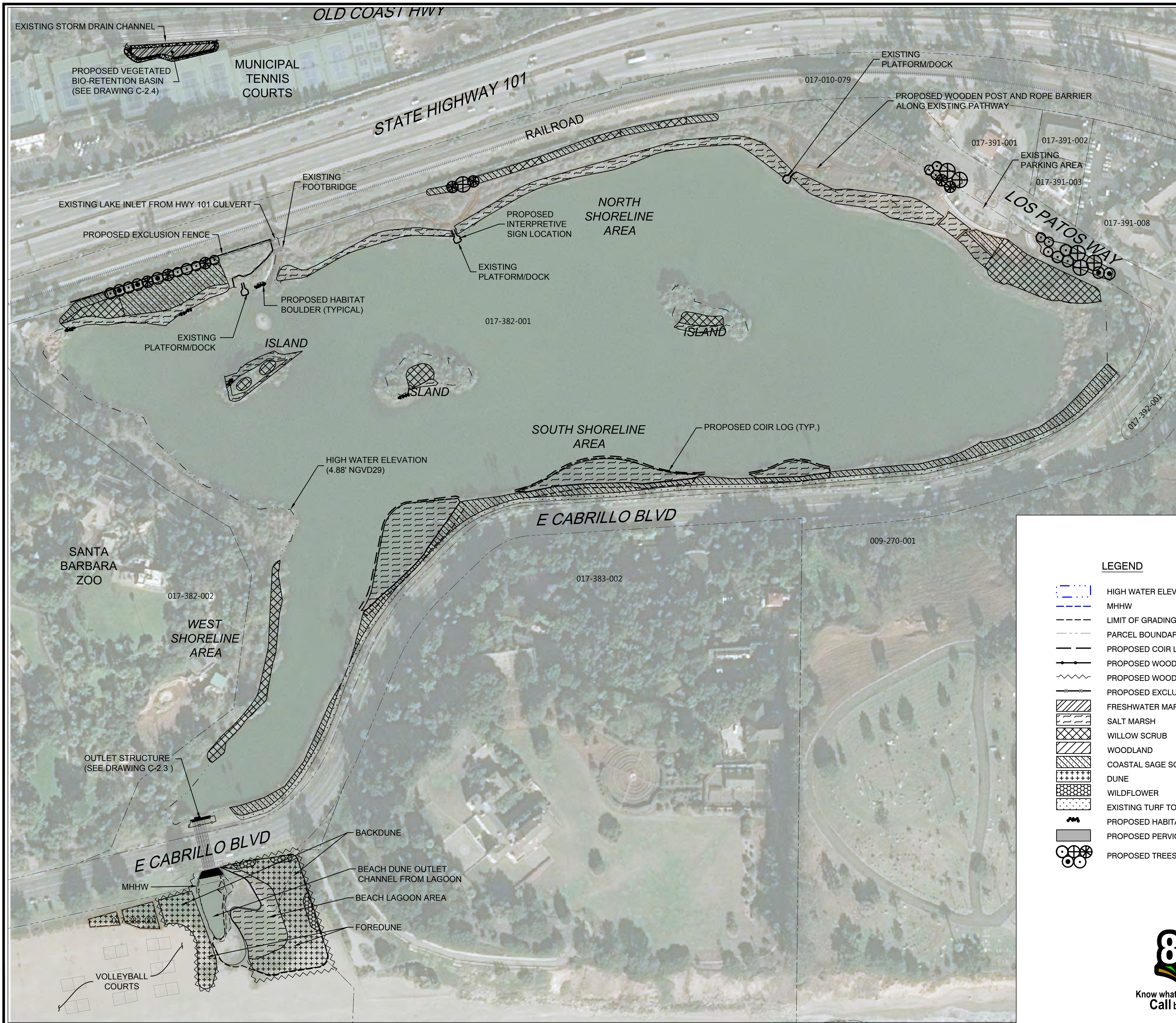
Know what's below.  
Call before you dig.

PROPERTY LINES  
ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PBW. NO.	
BID NO.	SHT. DES.
G-4.0	
DWG. NO.	
SHT. 4	OF 53



- NOTES:**
1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
  2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
  3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.
  4. THIS PLAN (CS-1) PROVIDES A SITEWIDE OVERVIEW OF PROPOSED CONDITIONS. REFER TO GRADING AND CONSTRUCTION MATERIALS PLANS AND PLANTING PLANS FOR PROPOSED PLAN DETAILS.



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED:	DATE
CITY ENGINEER	ORIGINAL SIGNED DATE

DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

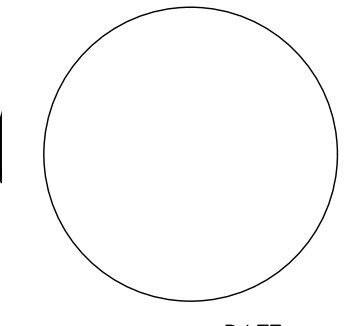
ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
COMPOSITE SITE PLAN

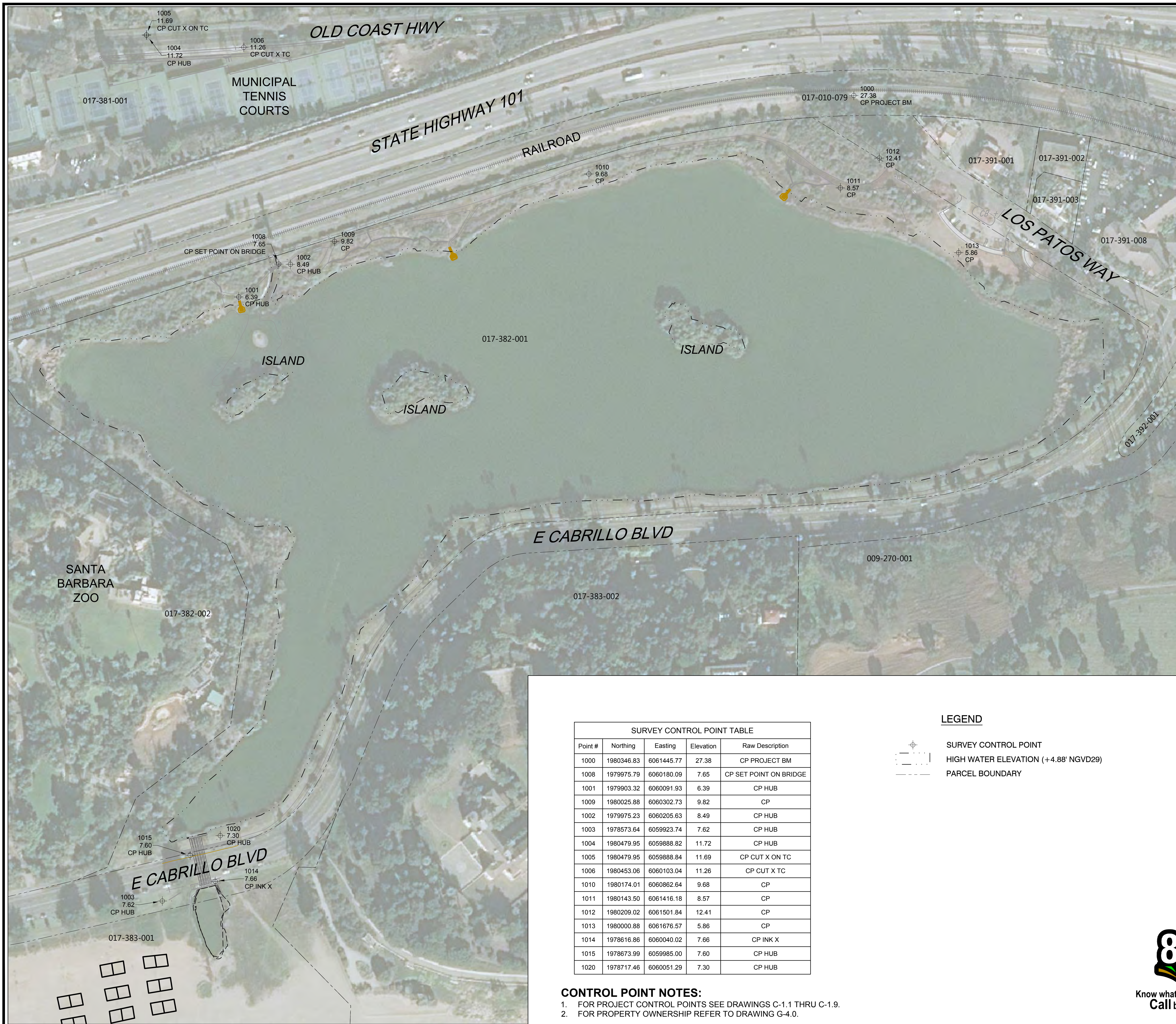
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BID. NO.	-
SHT. DES.	CS-1.0
DWG. NO.	-
SHT. OF	5 OF 53



PROPERTY LINES ARE APPROXIMATE

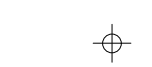
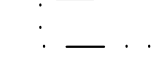

SCALE: 1"=100'





SURVEY CONTROL POINT TABLE				
Point #	Northing	Easting	Elevation	Raw Description
1000	1980346.83	6061445.77	27.38	CP PROJECT BM
1008	1979975.79	6060180.09	7.65	CP SET POINT ON BRIDGE
1001	1979903.32	6060091.93	6.39	CP HUB
1009	1980025.88	6060302.73	9.82	CP
1002	1979975.23	6060205.63	8.49	CP HUB
1003	1978573.64	6059923.74	7.62	CP HUB
1004	1980479.95	6059888.82	11.72	CP HUB
1005	1980479.95	6059888.84	11.69	CP CUT X ON TC
1006	1980453.06	6060103.04	11.26	CP CUT X TC
1010	1980174.01	6060862.64	9.68	CP
1011	1980143.50	6061416.18	8.57	CP
1012	1980209.02	6061501.84	12.41	CP
1013	1980000.88	6061676.57	5.86	CP INK
1014	1978616.86	6060040.02	7.66	CP INK X
1015	1978673.99	6059985.00	7.60	CP HUB
1020	1978717.46	6060051.29	7.30	CP HUB

**LEGEND**

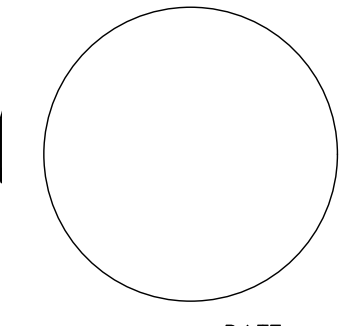
-  SURVEY CONTROL POINT
-  HIGH WATER ELEVATION (+4.88' NGVD29)
-  PARCEL BOUNDARY

- CONTROL POINT NOTES:**
- FOR PROJECT CONTROL POINTS SEE DRAWINGS C-1.1 THRU C-1.9.
  - FOR PROPERTY OWNERSHIP REFER TO DRAWING G-4.0.



PROPERTY LINES ARE APPROXIMATE

SCALE: 1"=100'



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN CHECKED M/W EBP M/W  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
SURVEY CONTROL PLAN

PBW NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
V-1.0  
DWG. NO. \_\_\_\_\_  
SHT. 6 OF 53



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

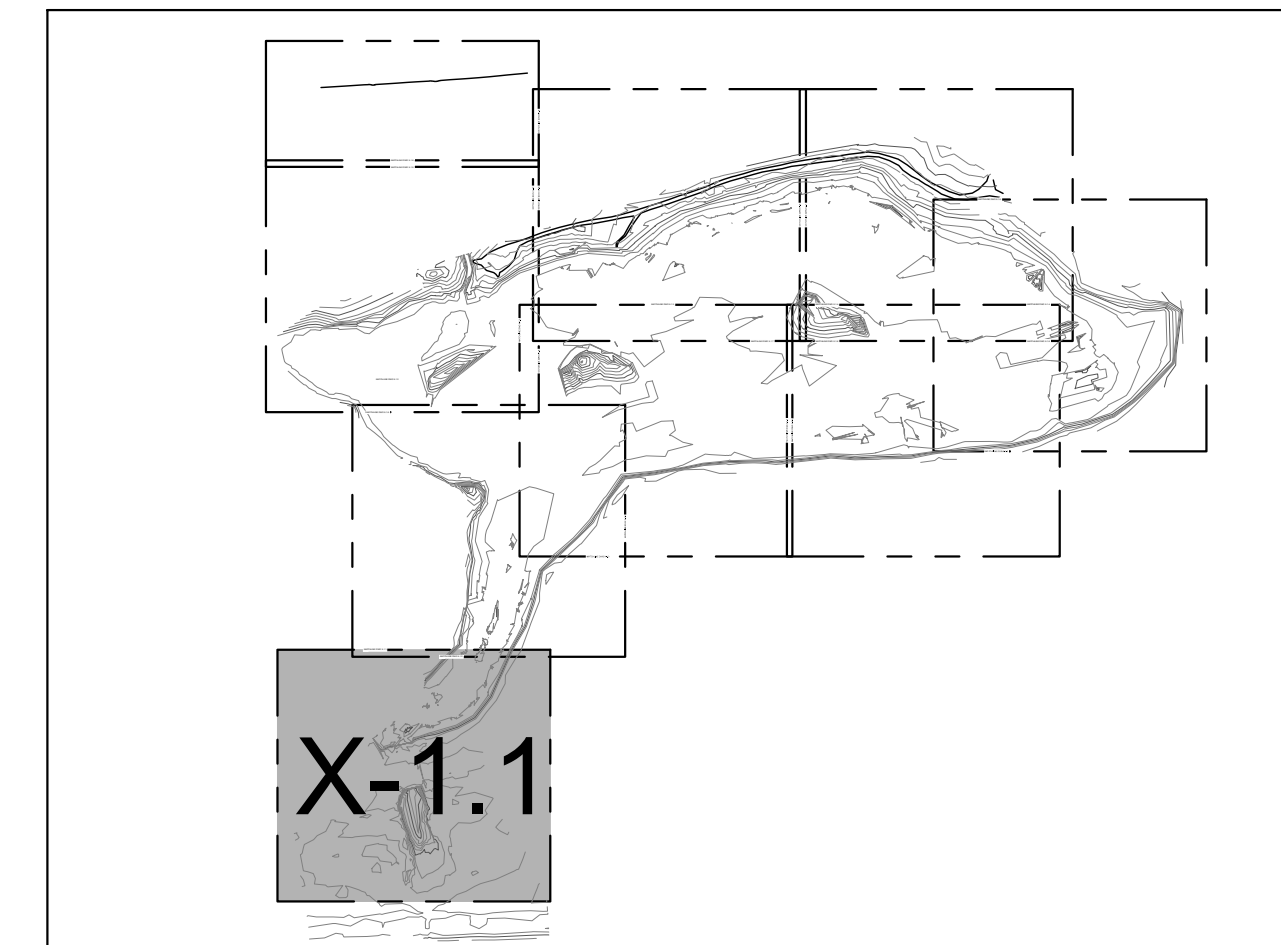
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CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
EXISTING CONDITIONS PLAN (1 OF 9)

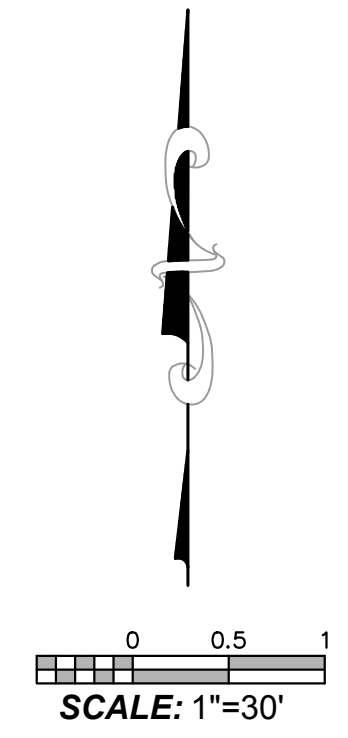
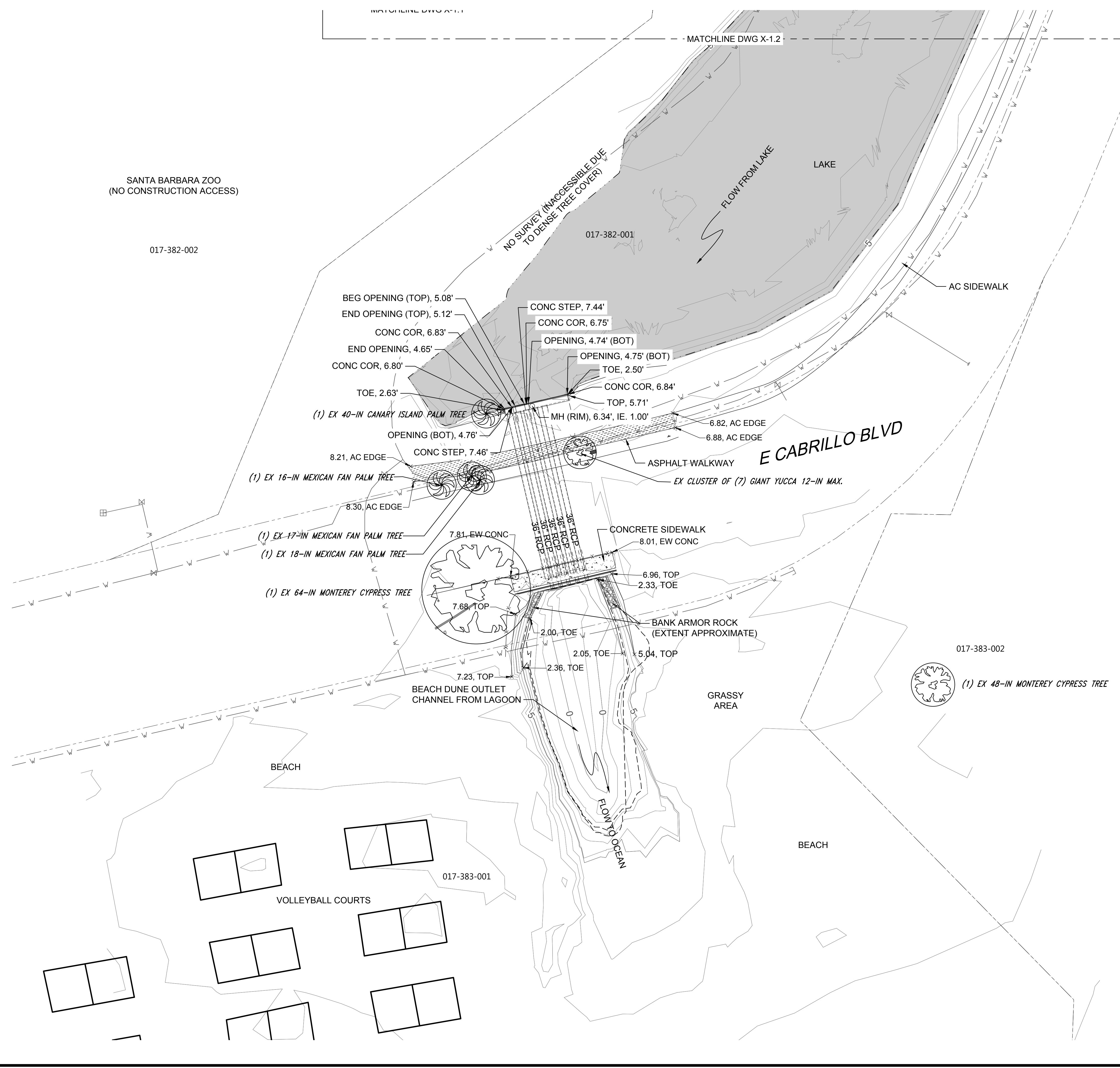
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V-1.1  
DWG. NO. \_\_\_\_\_  
SHT. 7 OF 53



SHEET INDEX

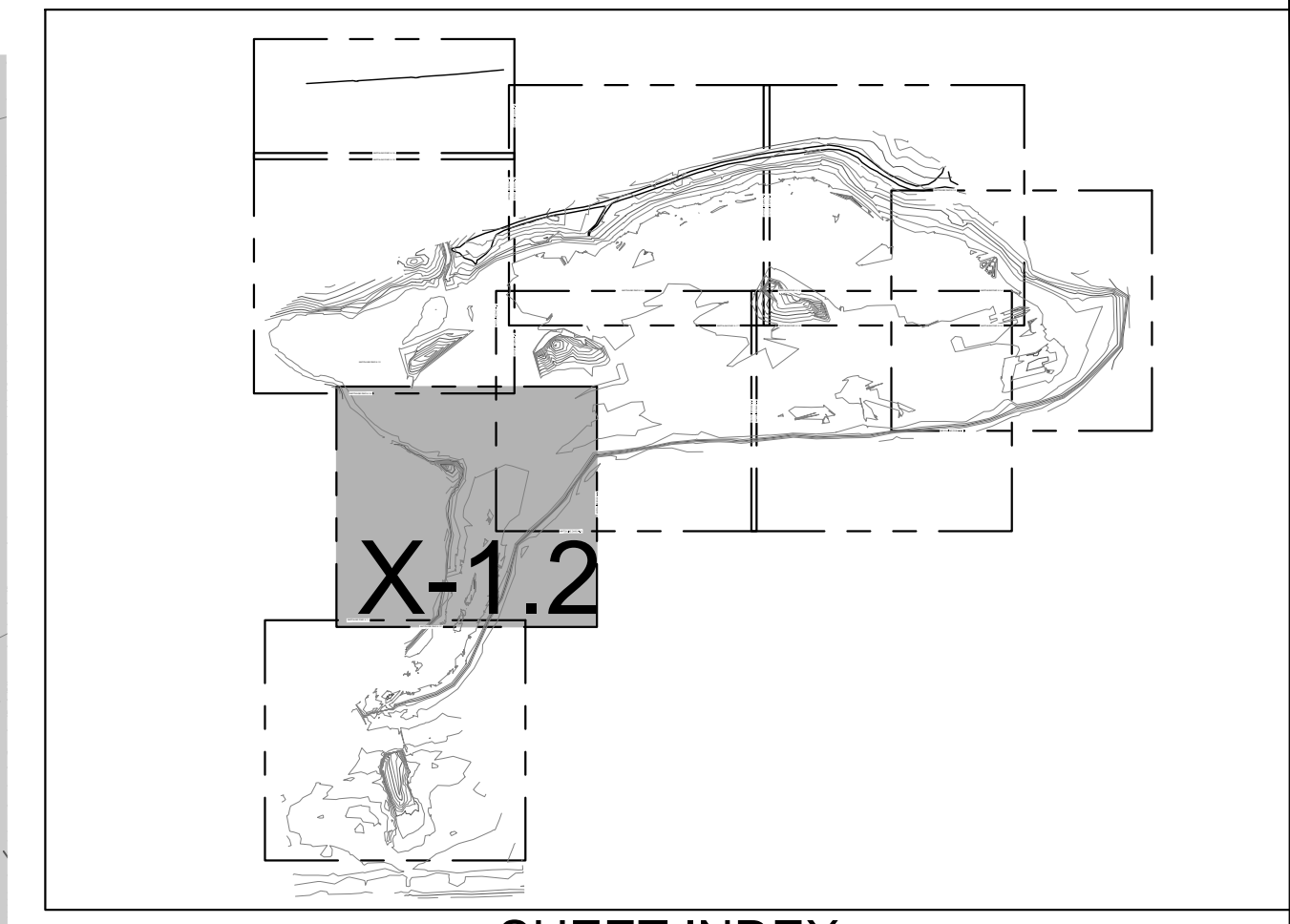
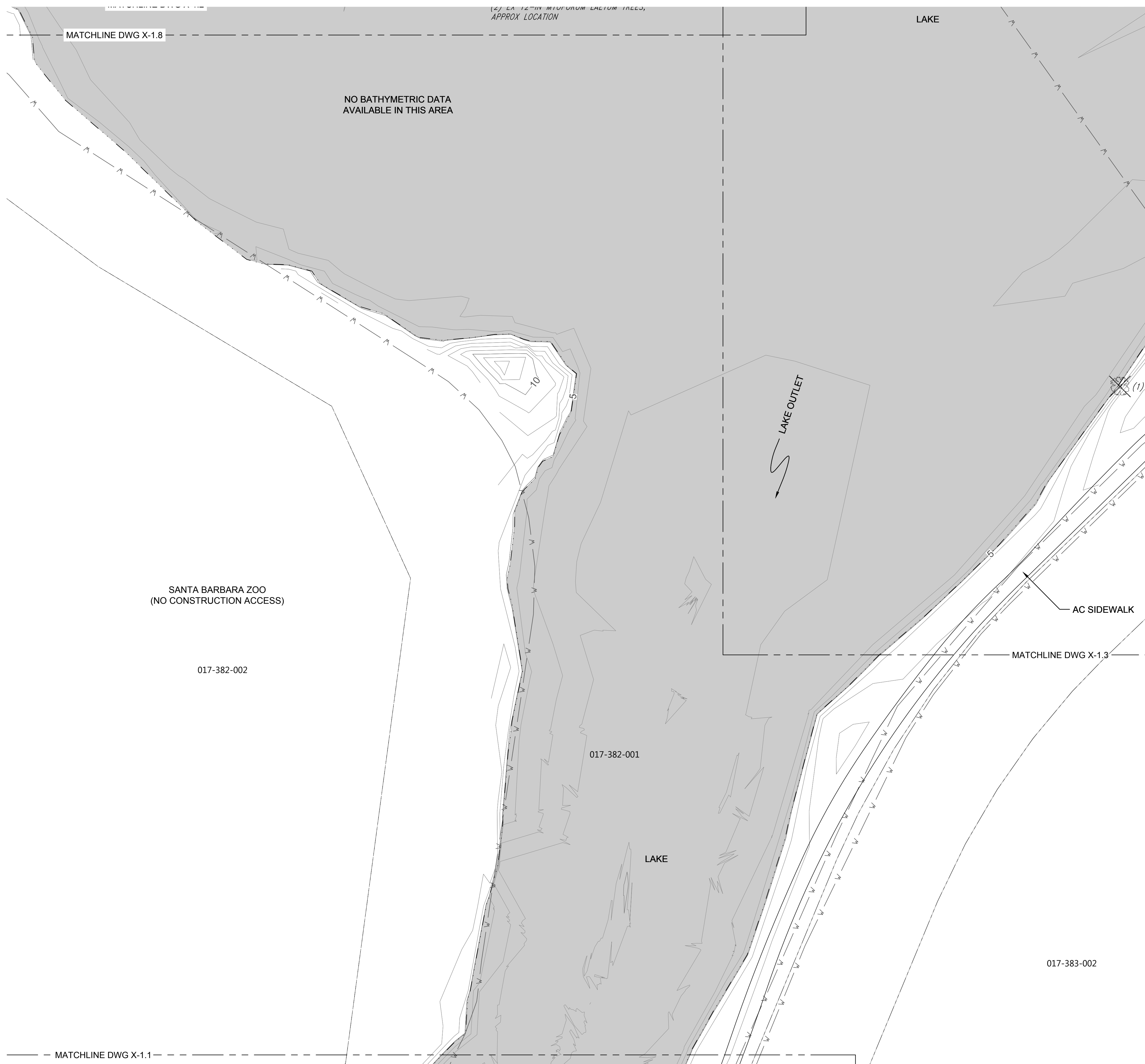
- LEGEND**
- EXISTING CONTOURS (1' & 5' INTERVALS)
  - HIGH WATER ELEVATION (+4.88' NGVD29)
  - MHHW (+2.62' NGVD29)
  - WATER MAIN
  - RECYCLED WATER MAIN
  - PARCEL BOUNDARY
  - ASPHALT
  - CONCRETE
  - TREE TO BE PROTECTED IN PLACE
  - TREE TO BE REMOVED
- SEE DRAWING G-2.0 FOR ADDITIONAL SURVEY NOTES AND LEGEND
- TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

- NOTES:**
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PROPERTY LINES ARE APPROXIMATE

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



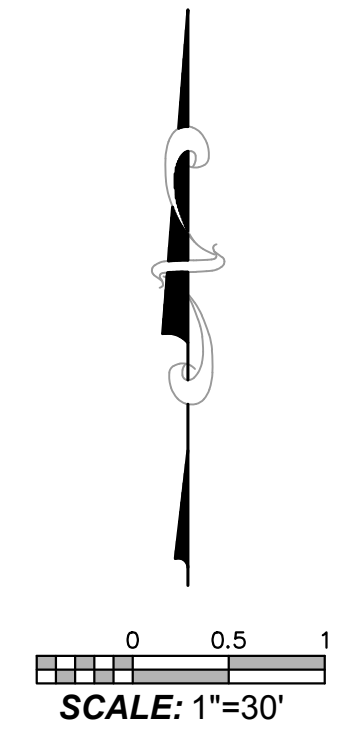
SHEET INDEX

LEGEND

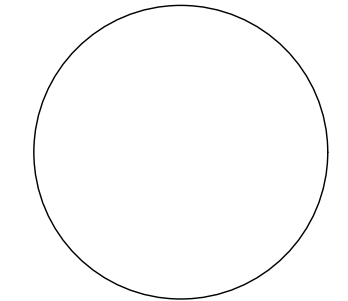
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PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

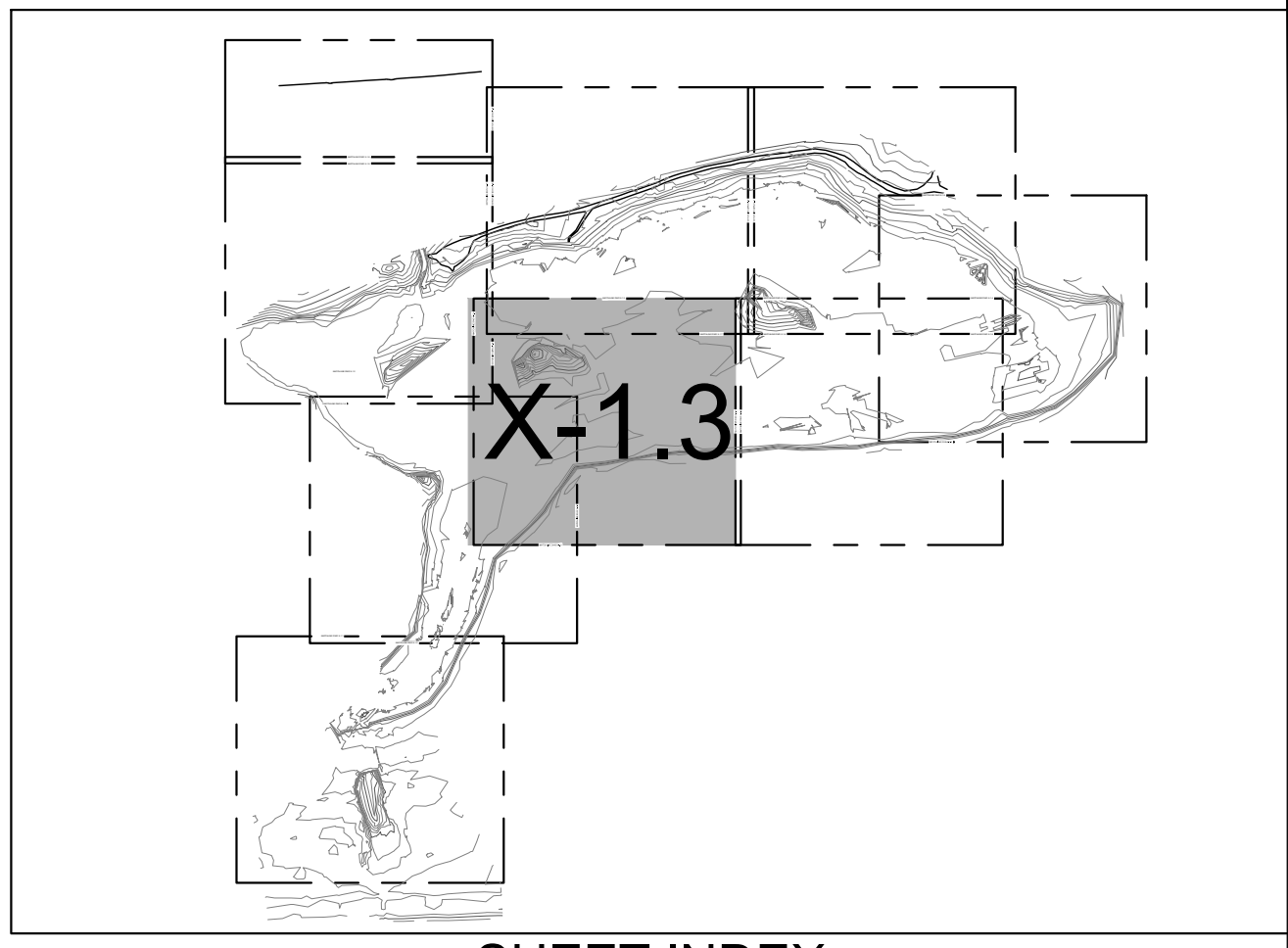
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NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
**EXISTING CONDITIONS PLAN (2 OF 9)**

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
V-1.2  
DWG. NO. \_\_\_\_\_  
SHT. 8 OF 53





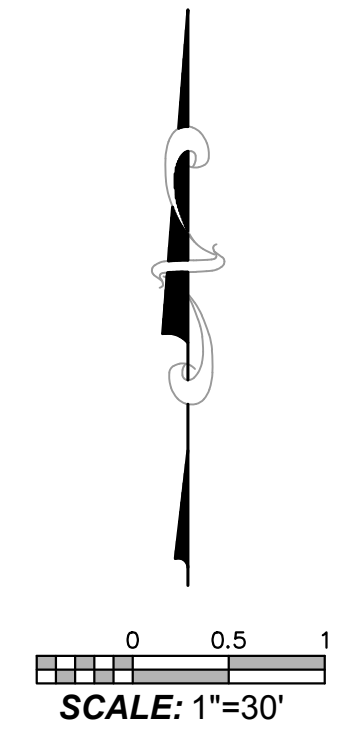
SHEET INDEX

**LEGEND**

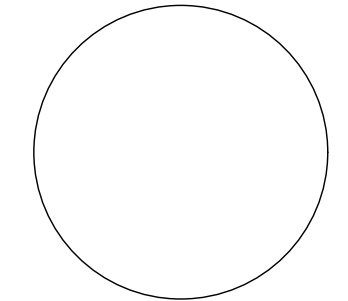
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3. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND



PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

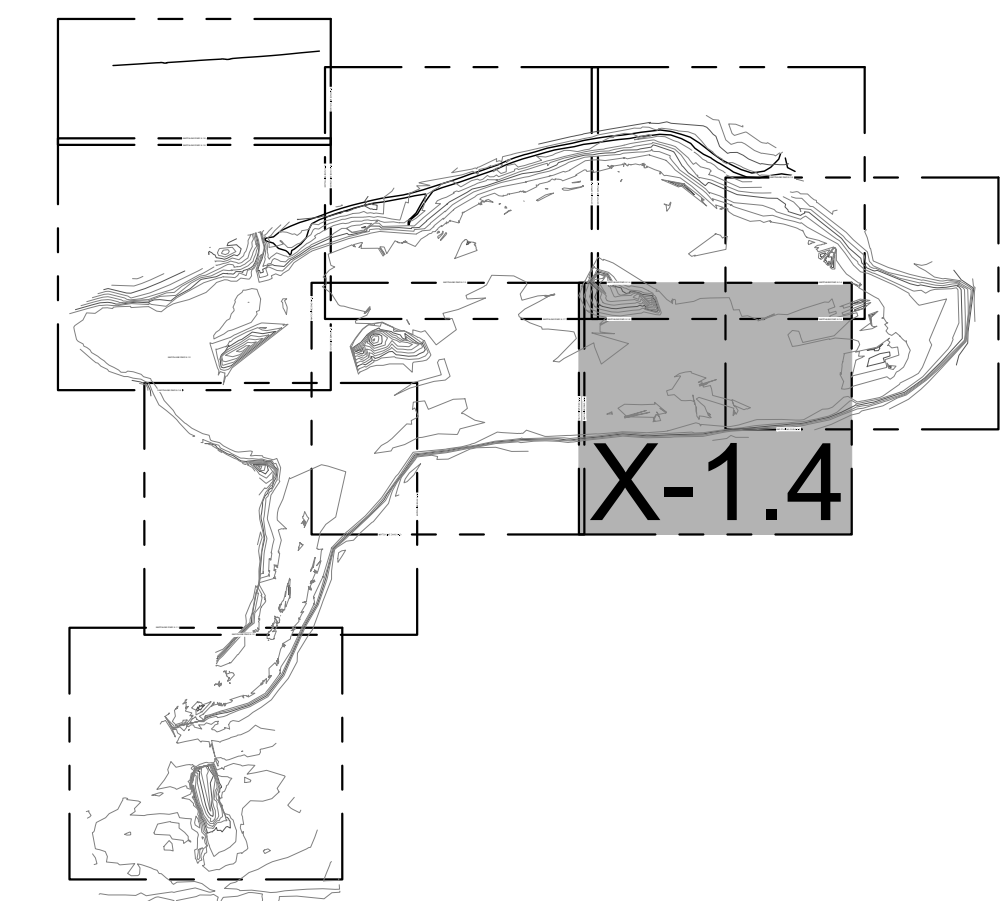
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CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

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NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
EXISTING CONDITIONS PLAN (3 OF 9)

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
V-1.3  
DWG. NO. \_\_\_\_\_  
SHT. 9 OF 53



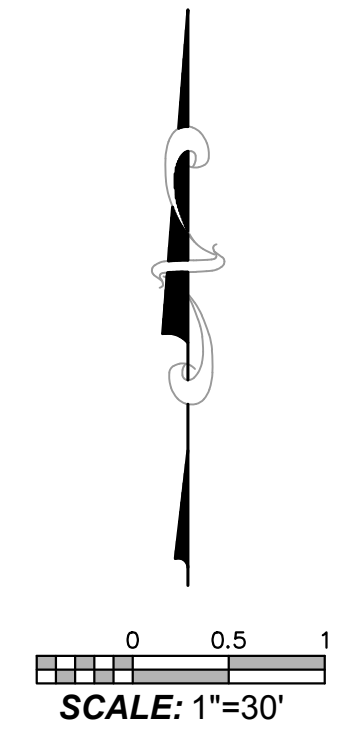
SHEET INDEX

LEGEND

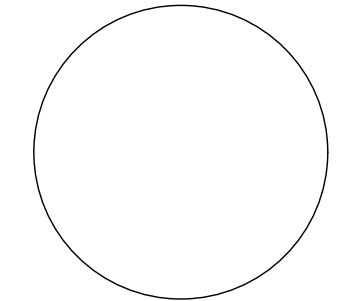
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PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

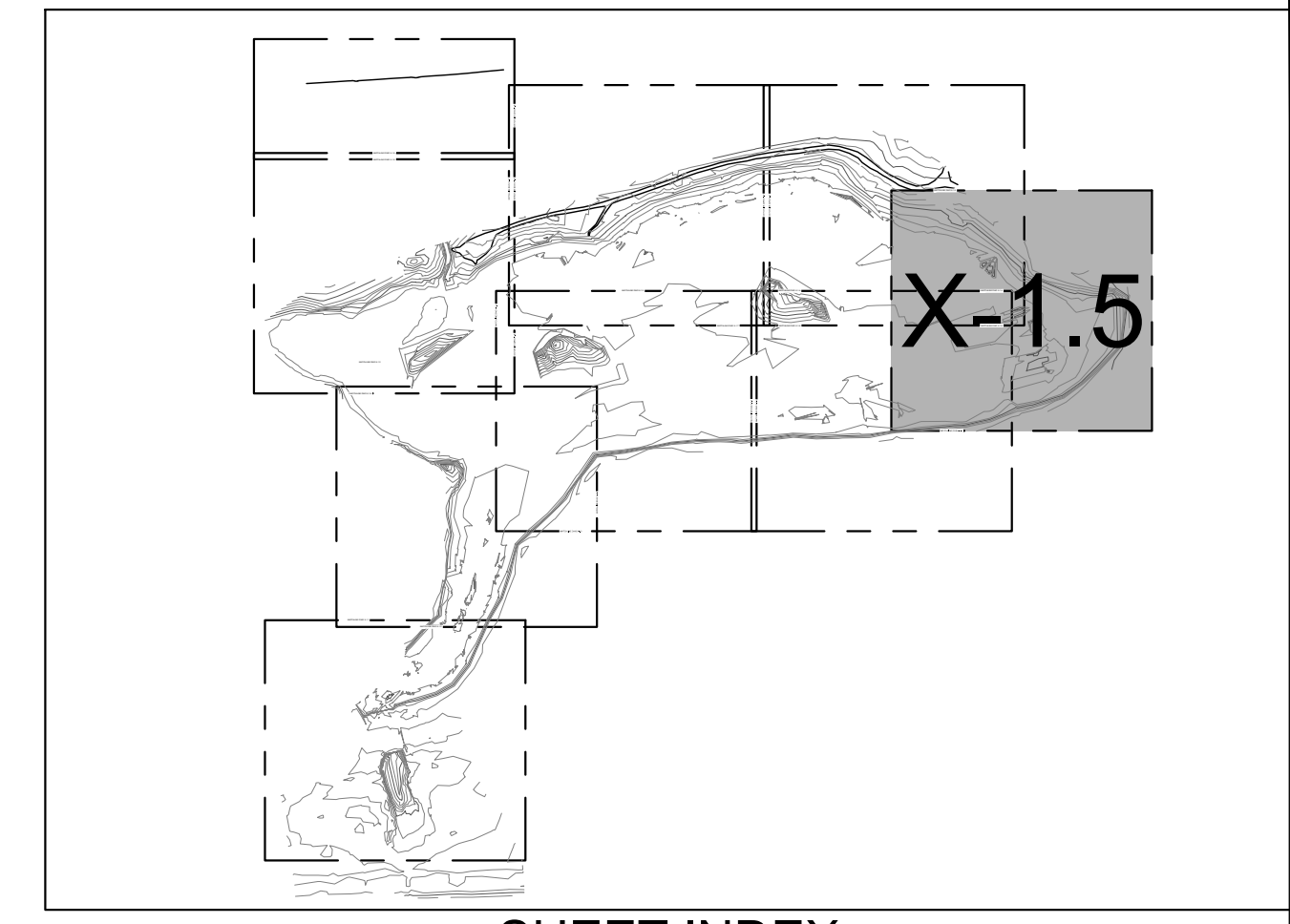
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65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
**EXISTING CONDITIONS PLAN (4 OF 9)**

PBW. NO.	-
BID. NO.	-
SHT. DES.	V-1.4
DWG. NO.	-

SHT. 10 OF 53



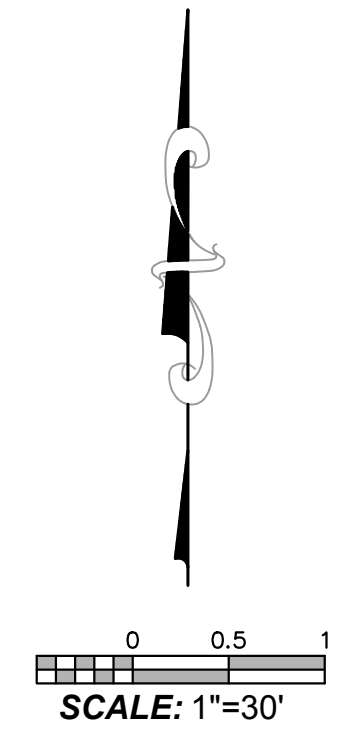
SHEET INDEX

LEGEND

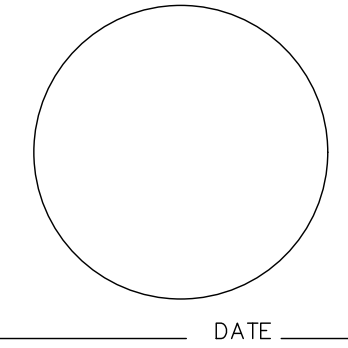
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PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

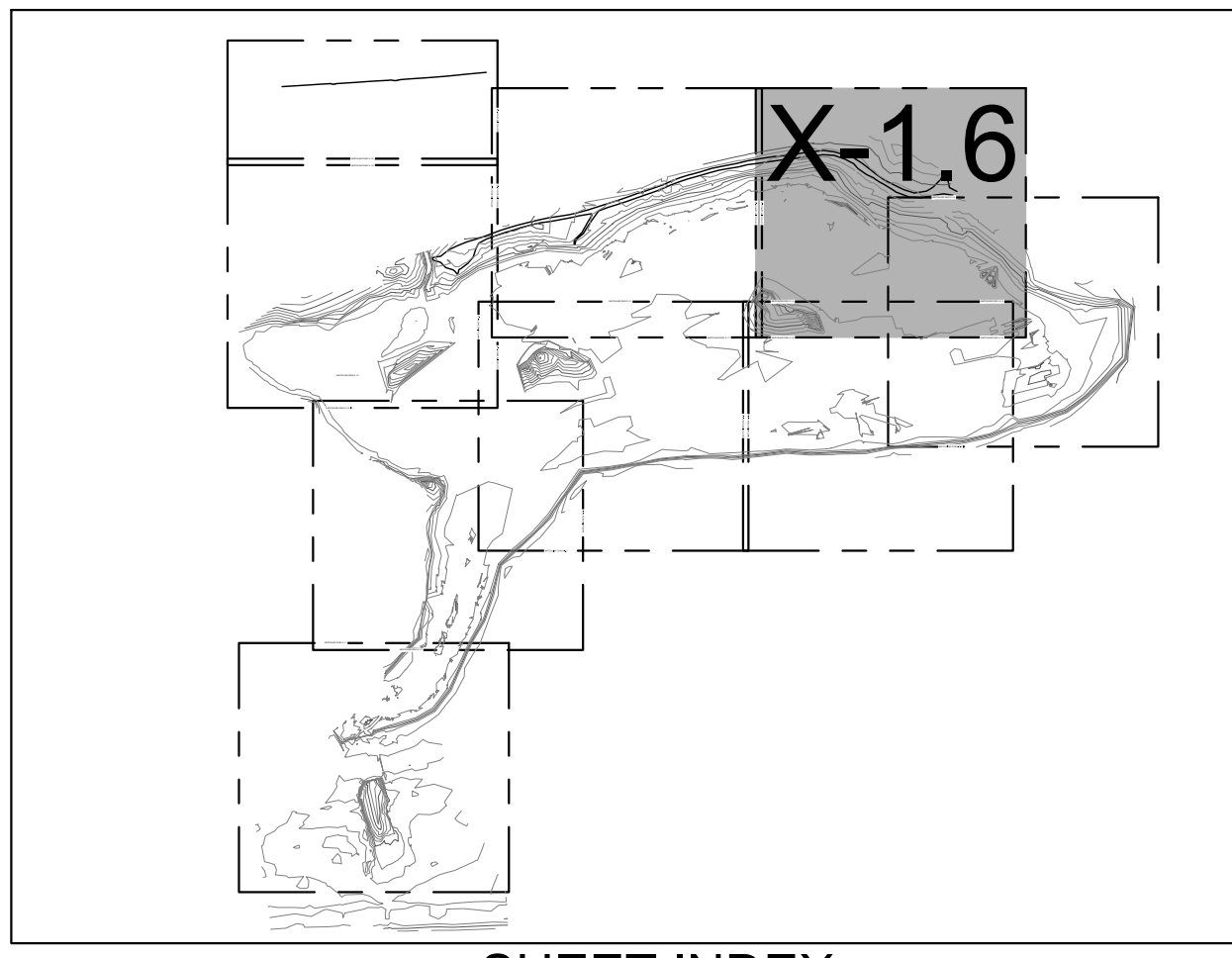
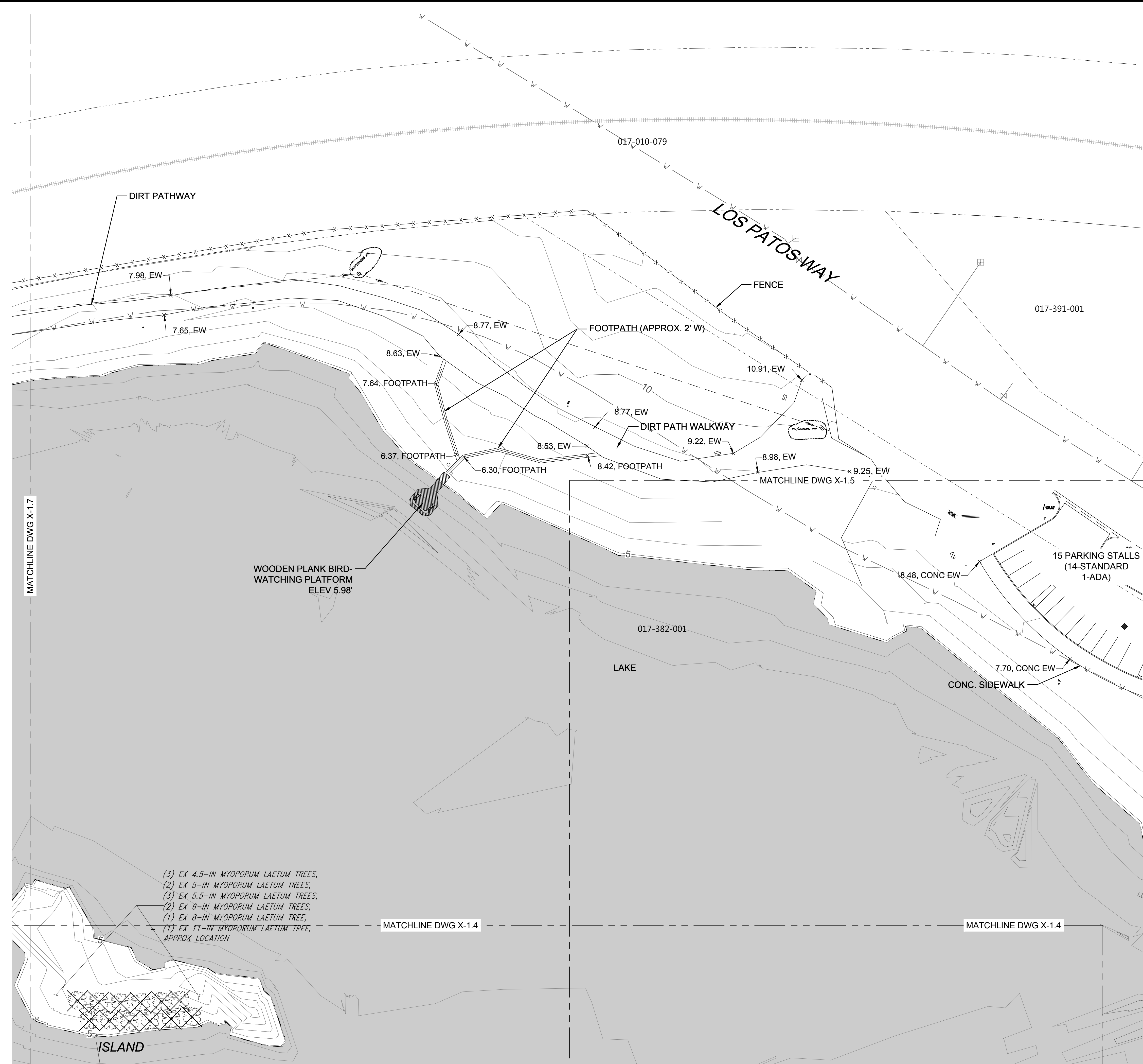
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CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

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DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION  
EXISTING CONDITIONS PLAN (5 OF 9)**

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
V-1.5  
DWG. NO. \_\_\_\_\_  
SHT. 11 OF 53



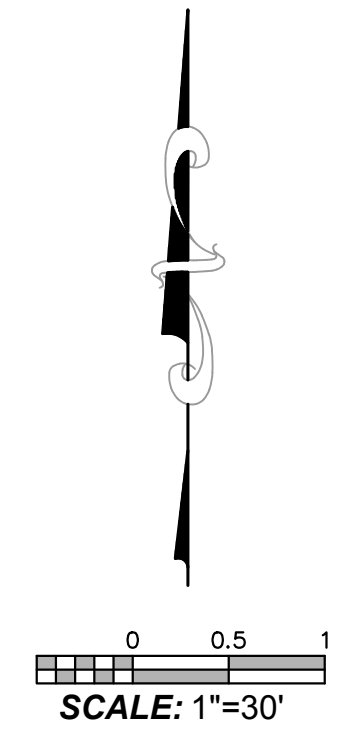
SHEET INDEX

LEGEND

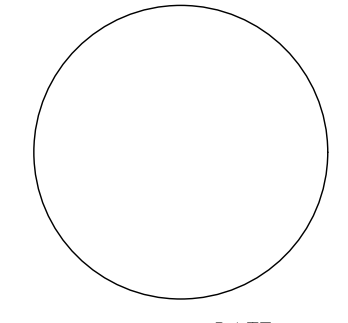
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PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

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DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
**EXISTING CONDITIONS PLAN (6 OF 9)**

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
V-1.6  
DWG. NO. \_\_\_\_\_  
SHT. 12 OF 53



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

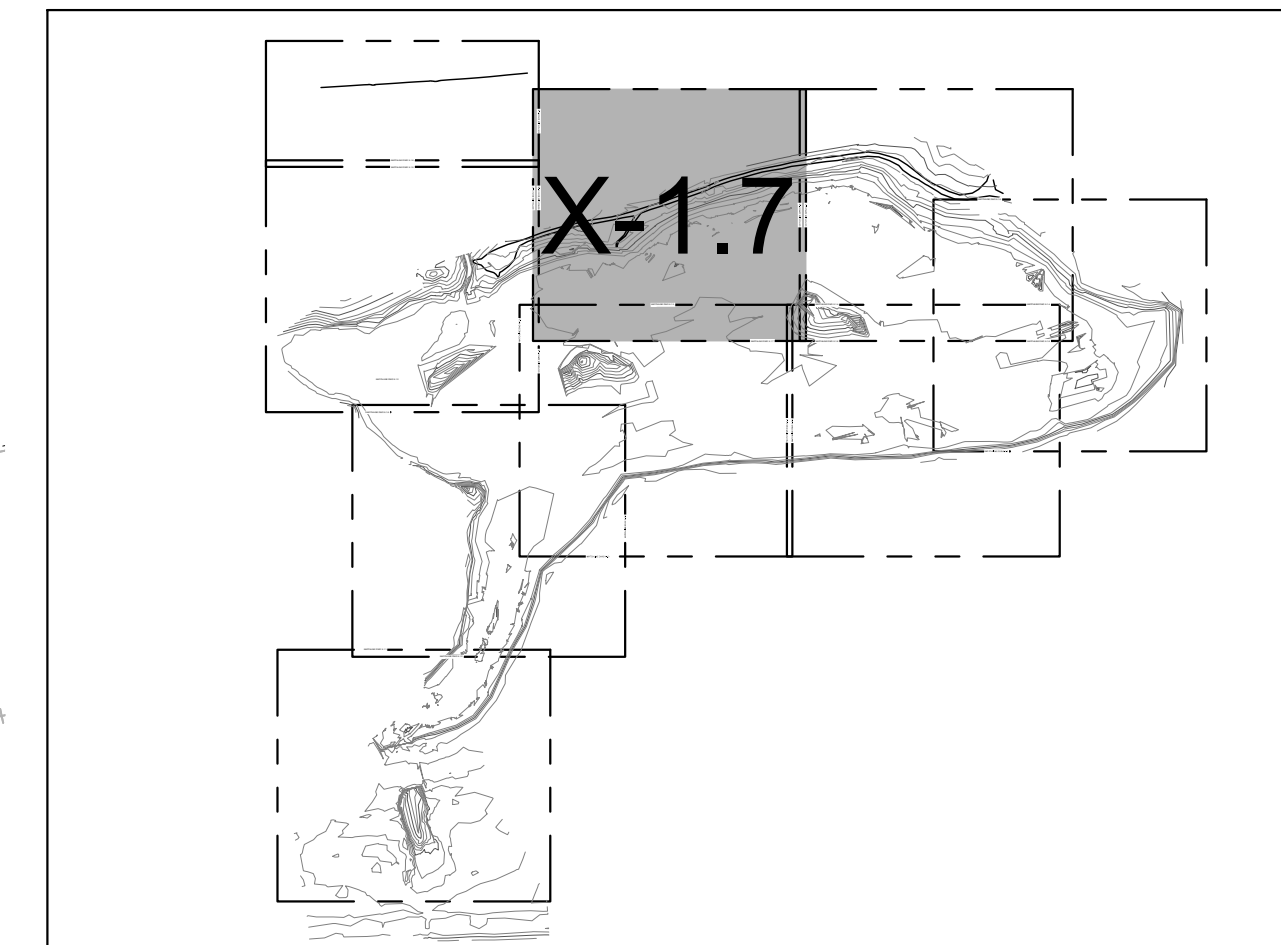
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CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN CHECKED  
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DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION  
EXISTING CONDITIONS PLAN (7 OF 9)**

PBW. NO. \_\_\_\_\_  
 BID. NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
**V-1.7**  
 DWG. NO. \_\_\_\_\_  
 SHT. 13 OF 53



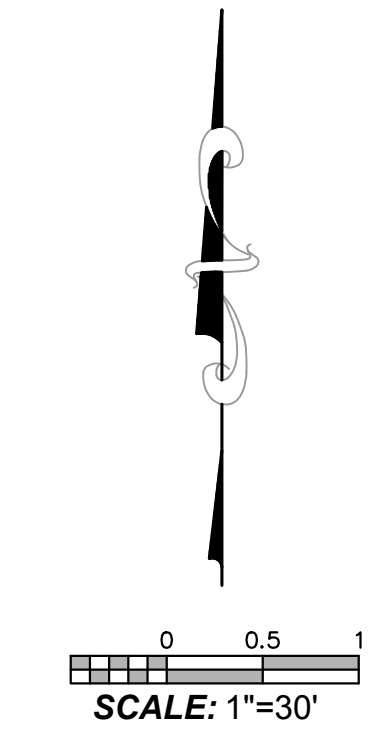
SHEET INDEX

LEGEND

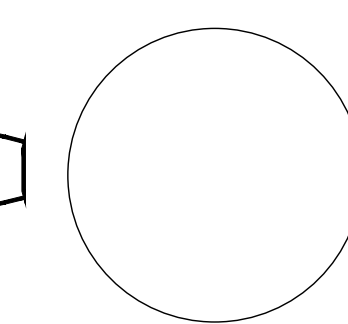
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  - HIGH WATER ELEVATION (+4.88' NGVD29)
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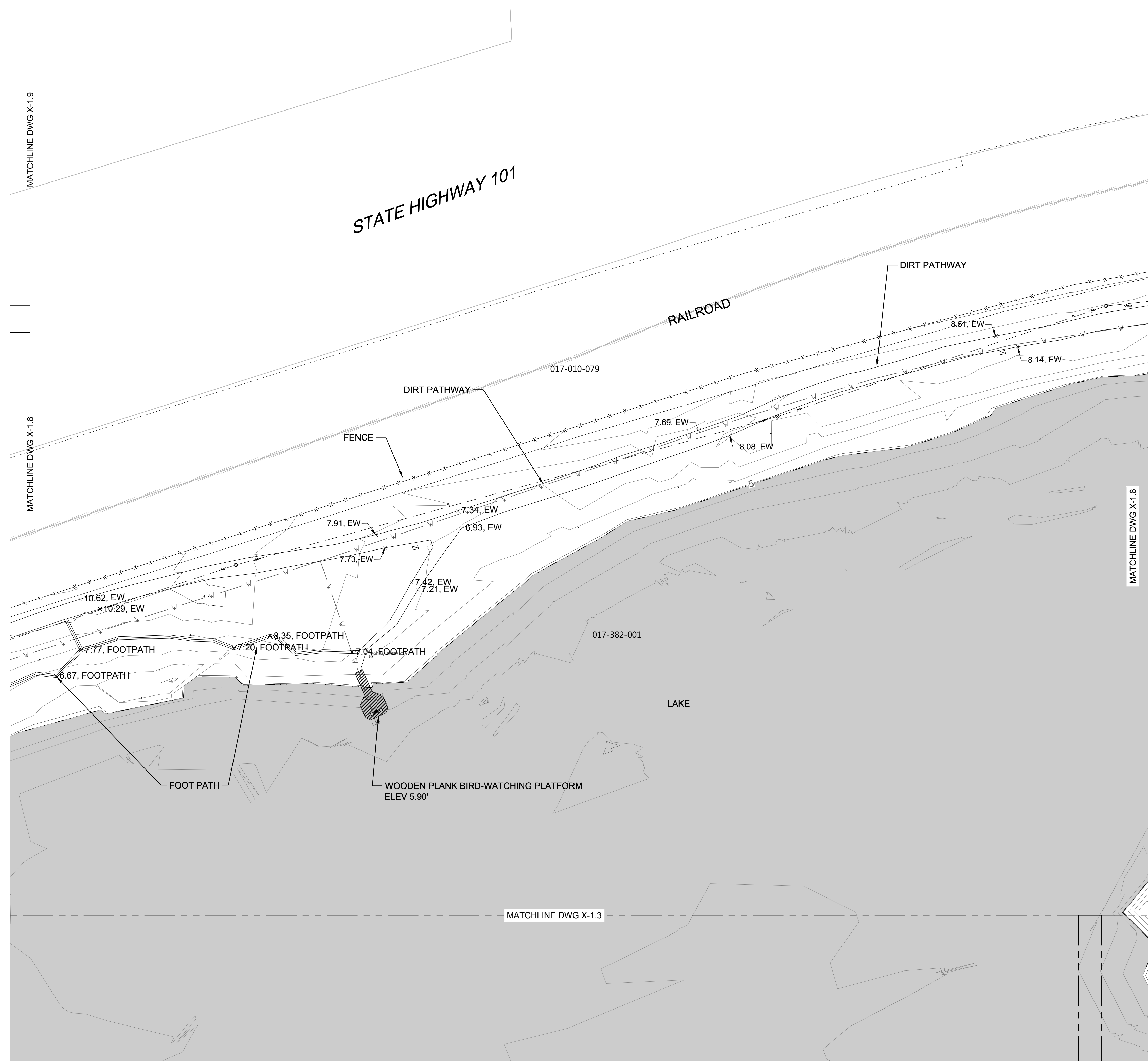
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3. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND.



PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_





PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_  
DATE \_\_\_\_\_

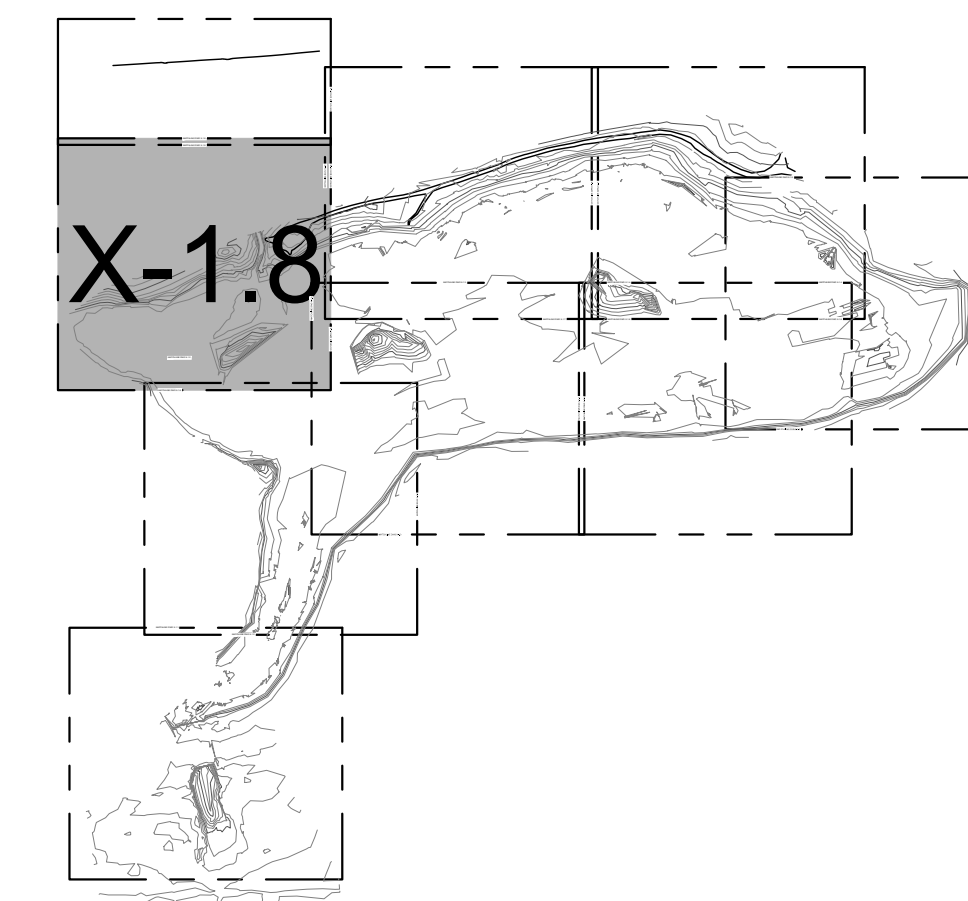
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DATE APPROVED \_\_\_\_\_  
NO. \_\_\_\_\_

REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION EXISTING CONDITIONS PLAN (8 OF 9)

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
V-1.8  
DWG. NO. \_\_\_\_\_  
SHT. 14 OF 53



SHEET INDEX

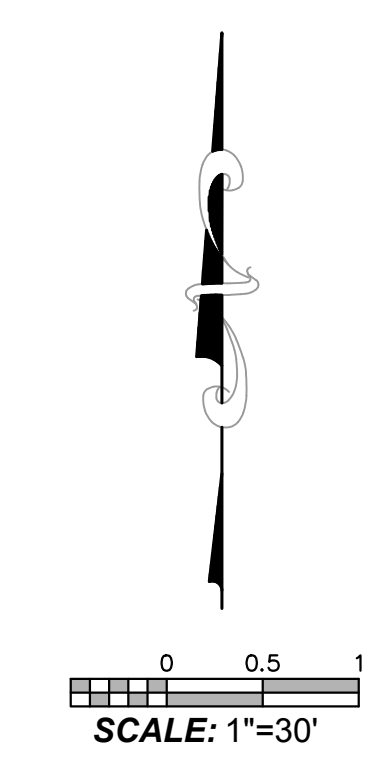
### LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
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- RECYCLED WATER MAIN
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- SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND.



Know what's below.  
Call before you dig.

PROPERTY LINES ARE APPROXIMATE

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

STATE HIGHWAY 101

RAILROAD

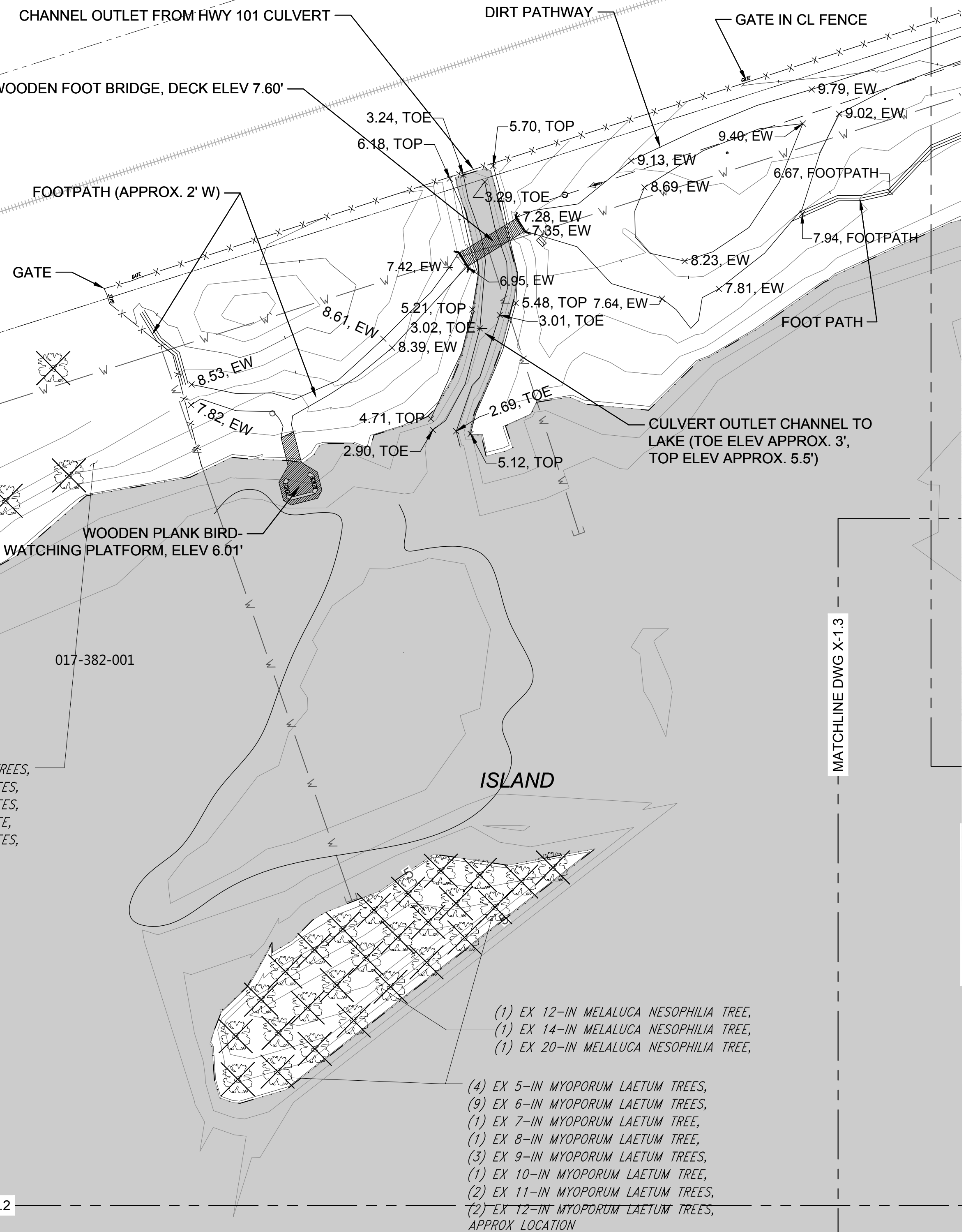
MATCHLINE DWG X-1.9

MATCHLINE DWG X-1.7

MATCHLINE DWG X-1.3

MATCHLINE DWG X-1.2

017-382-002



(6) EX 4.5-IN MYOPORUM LAETUM TREES,  
 (3) EX 5-IN MYOPORUM LAETUM TREES,  
 (2) EX 6-IN MYOPORUM LAETUM TREES,  
 (1) EX 7-IN MYOPORUM LAETUM TREE,  
 (3) EX 8-IN MYOPORUM LAETUM TREES,  
 APPROX LOCATION

(1) EX 12-IN MELALUCA NESOPHILIA TREE,  
 (1) EX 14-IN MELALUCA NESOPHILIA TREE,  
 (1) EX 20-IN MELALUCA NESOPHILIA TREE,

(4) EX 5-IN MYOPORUM LAETUM TREES,  
 (9) EX 6-IN MYOPORUM LAETUM TREES,  
 (1) EX 7-IN MYOPORUM LAETUM TREE,  
 (1) EX 8-IN MYOPORUM LAETUM TREE,  
 (3) EX 9-IN MYOPORUM LAETUM TREES,  
 (1) EX 10-IN MYOPORUM LAETUM TREE,  
 (2) EX 11-IN MYOPORUM LAETUM TREES,  
 (2) EX 12-IN MYOPORUM LAETUM TREES,  
 APPROX LOCATION



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

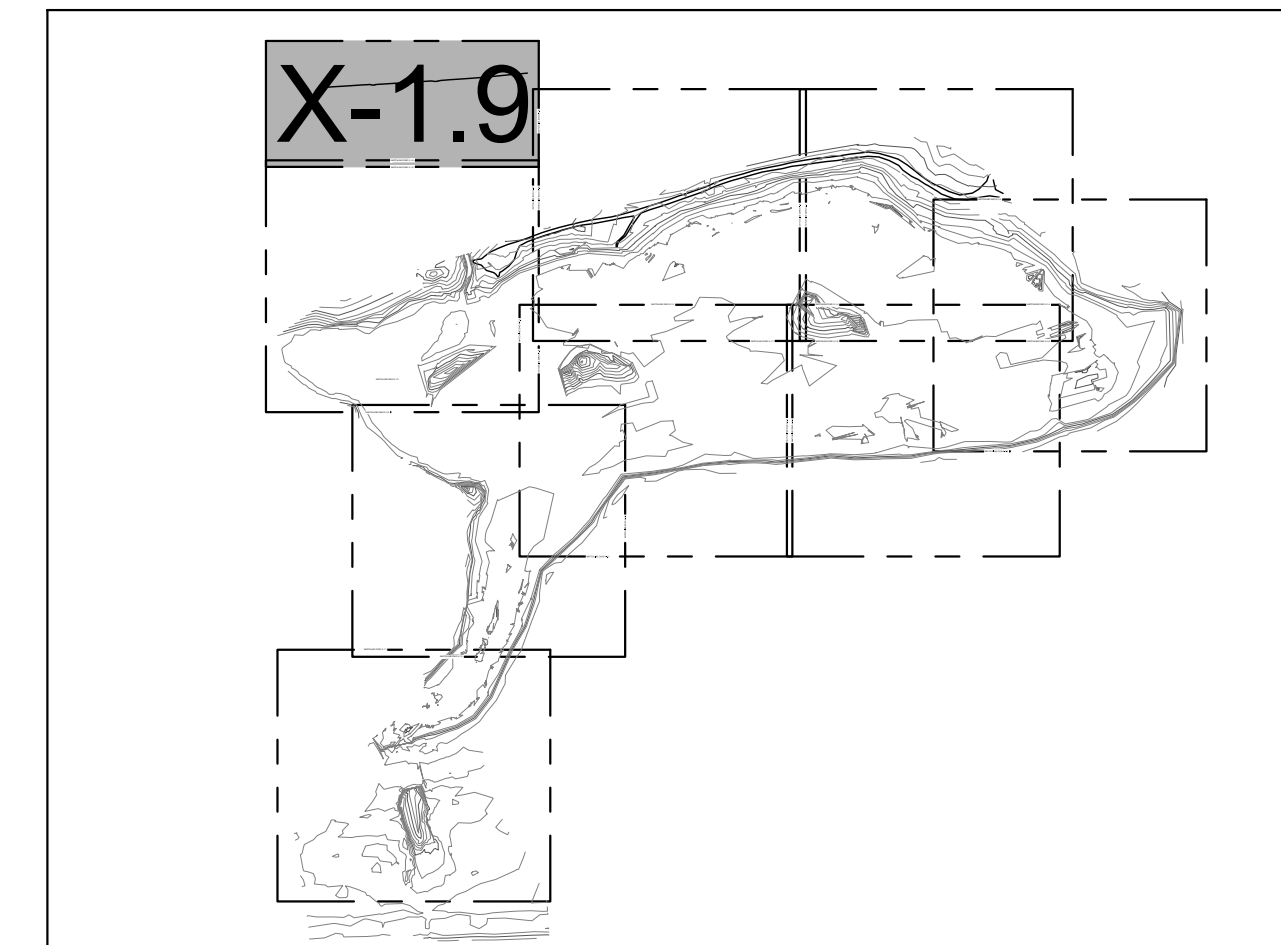
APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN BY: EBP  
CHECKED BY: MW  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION EXISTING CONDITIONS PLAN (9 OF 9)

PBW. NO. -  
BID. NO. - SHT. DES. -  
V-1.9  
DWG. NO.  
SHT. 15 OF 53



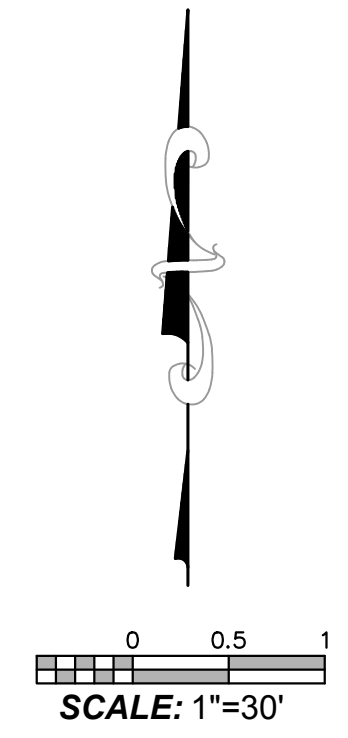
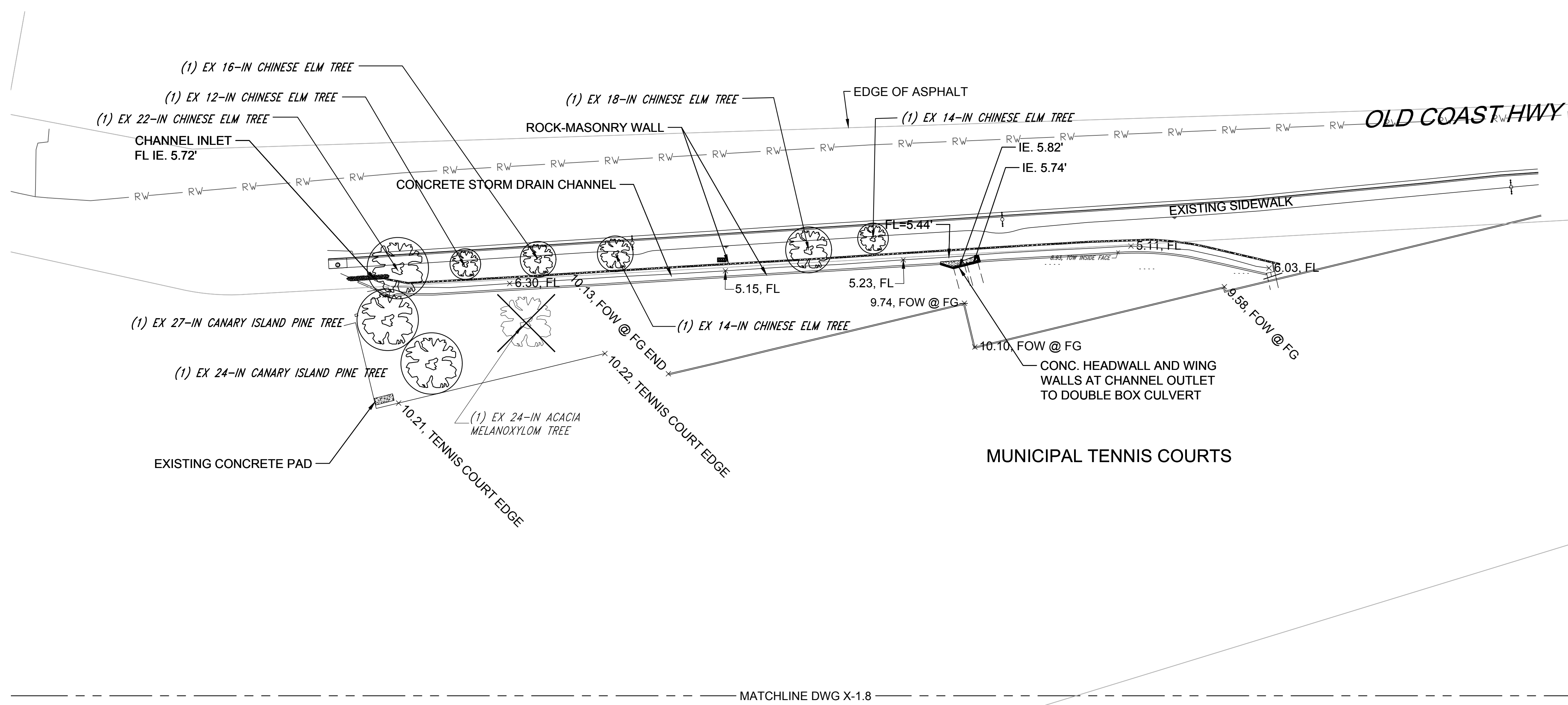
SHEET INDEX

### LEGEND

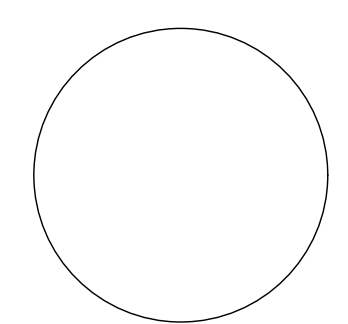
- EXISTING CONTOURS (1' & 5' INTERVALS)
  - WATER MAIN
  - RECYCLED WATER MAIN
  - ASPHALT
  - CONCRETE
  - TREE TO BE PROTECTED IN PLACE
  - TREE TO BE REMOVED
- SEE DRAWING G-2.0 FOR ADDITIONAL SURVEY NOTES AND LEGEND
- TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

### NOTES:

1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
3. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND.







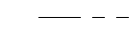
PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

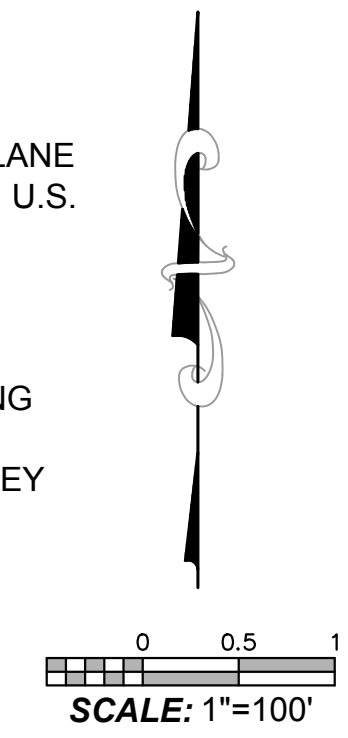


**LEGEND**

-  TEMPORARY ACCESS ROUTE
-  TEMPORARY STAGING AREA
-  ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
-  MHHW
-  PARCEL BOUNDARY

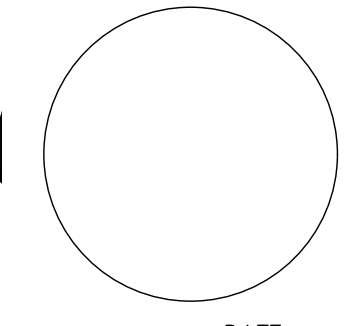
**NOTES:**

1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.
4. SEE DRAWING G-2.0 FOR ADDITIONAL SURVEY NOTES AND LEGEND.
5. SEE DRAWING G-4.0 FOR PROPERTY OWNERSHIP.



Know what's below.  
Call before you dig.

PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED:	DATE
CITY ENGINEER	ORIGINAL SIGNED DATE

DESIGN DRAWN CHECKED M/W  
65 %  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION  
TEMPORARY ACCESS AND STAGING**

PBW. NO.	
BID NO.	
SHT. DES.	
TA-1.0	
DWG. NO.	
SHT. 16 OF 53	





PUBLIC WORKS  
DEPARTMENT  
ENGINEERING DIVISION

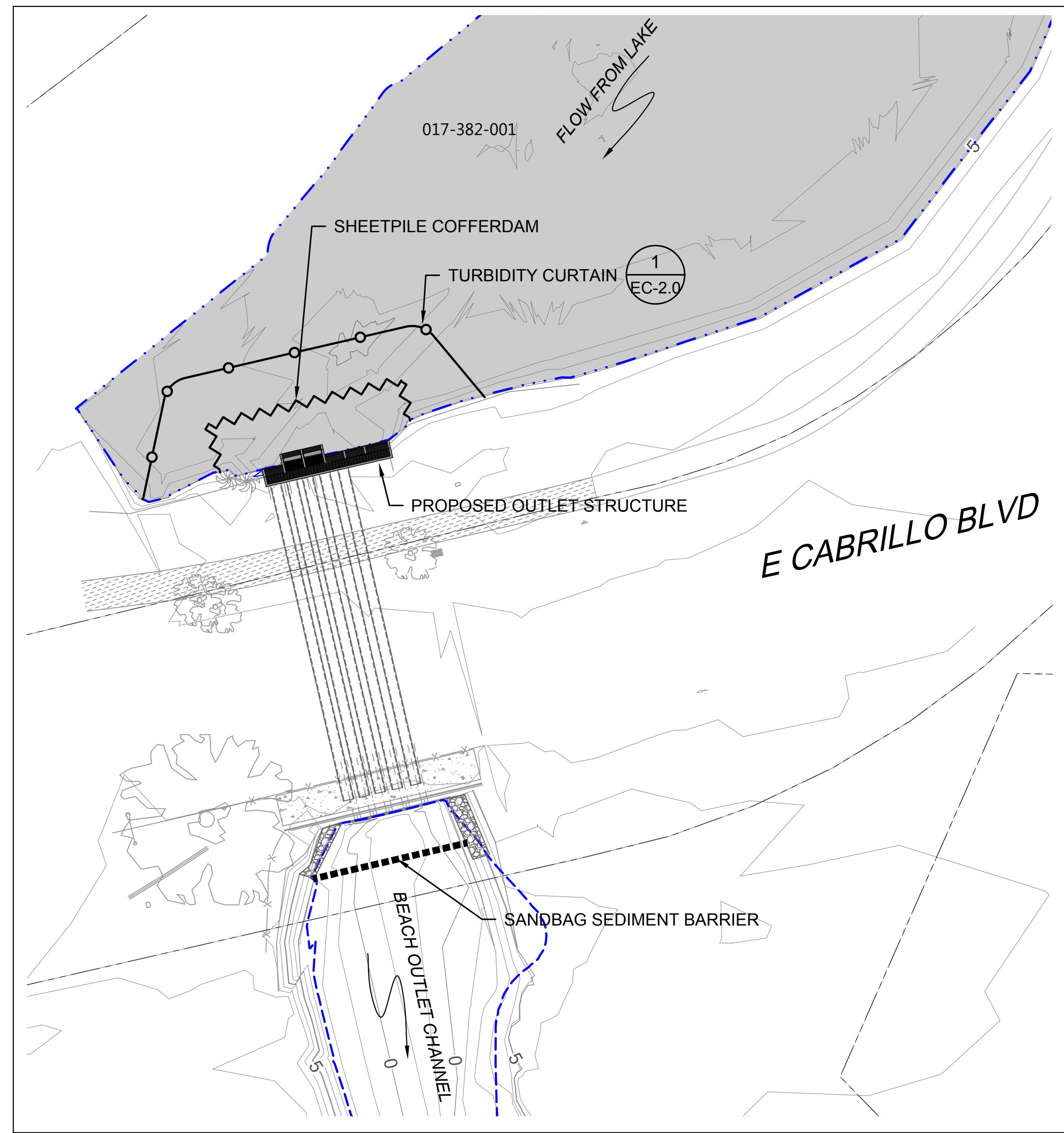
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DESIGN DM  
DRAWN EP  
CHECKED MW  
65%  
DRAFT

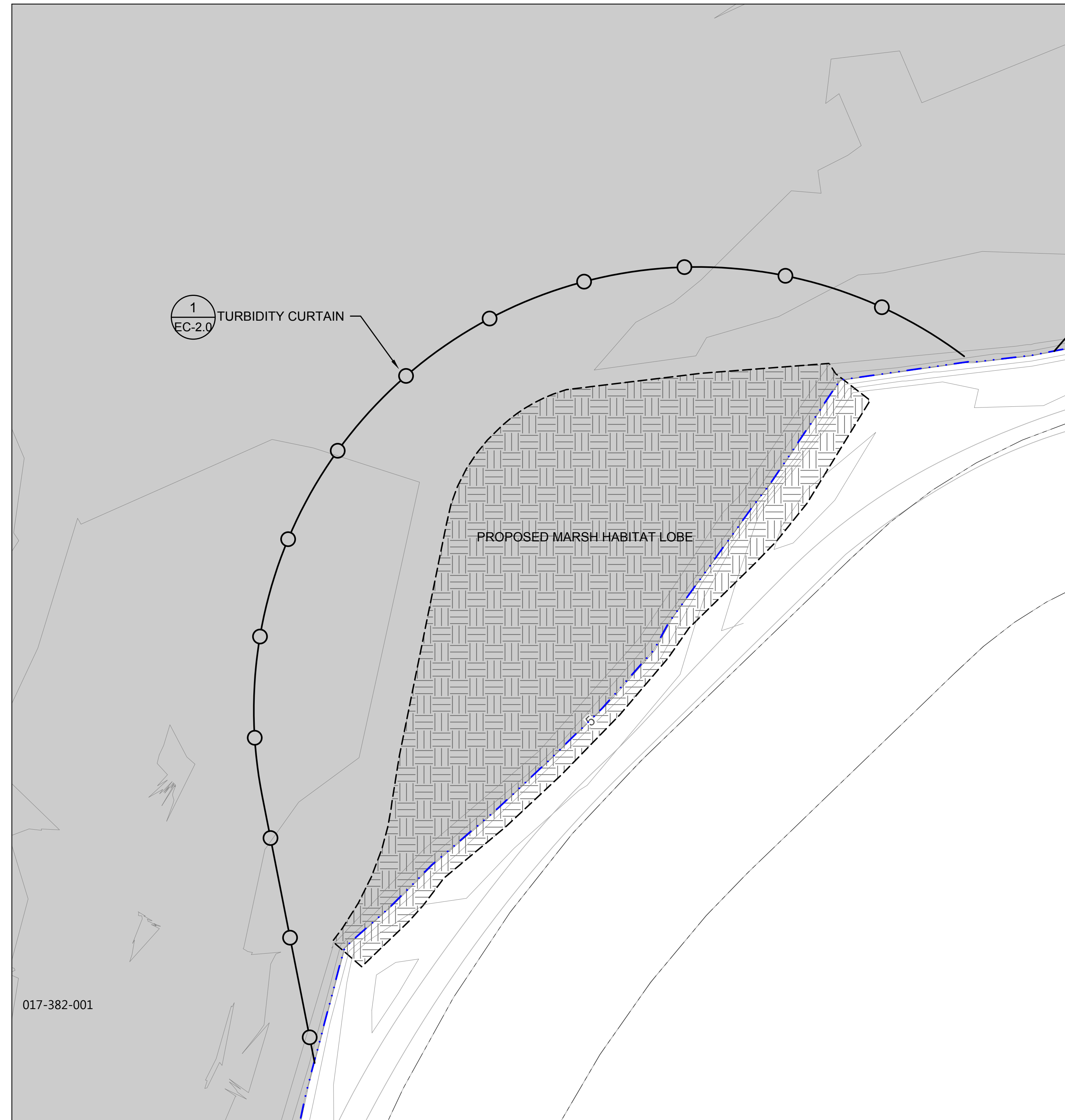
NO.	DATE	APPROVED	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION TESC PLAN

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
EC-1.0  
DWG. NO. \_\_\_\_\_  
SHT. 17 OF 53



OUTLET STRUCTURE

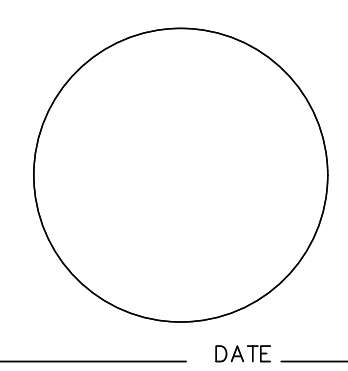


SOUTHWEST HABITAT LOBE

### LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PROPOSED ELEMENT GRADING EXTENT
- MHHW
- PARCEL BOUNDARY
- TURBIDITY CURTAIN
- SHEETPILE
- SANDBAG SEDIMENT BARRIER

0 0.5 1  
SCALE: 1"=30'



PROPERTY LINES ARE APPROXIMATE

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS  
DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DM  
DRAWN EEP  
CHECKED MW  
65%  
DRAFT

DATE APPROVED \_\_\_\_\_

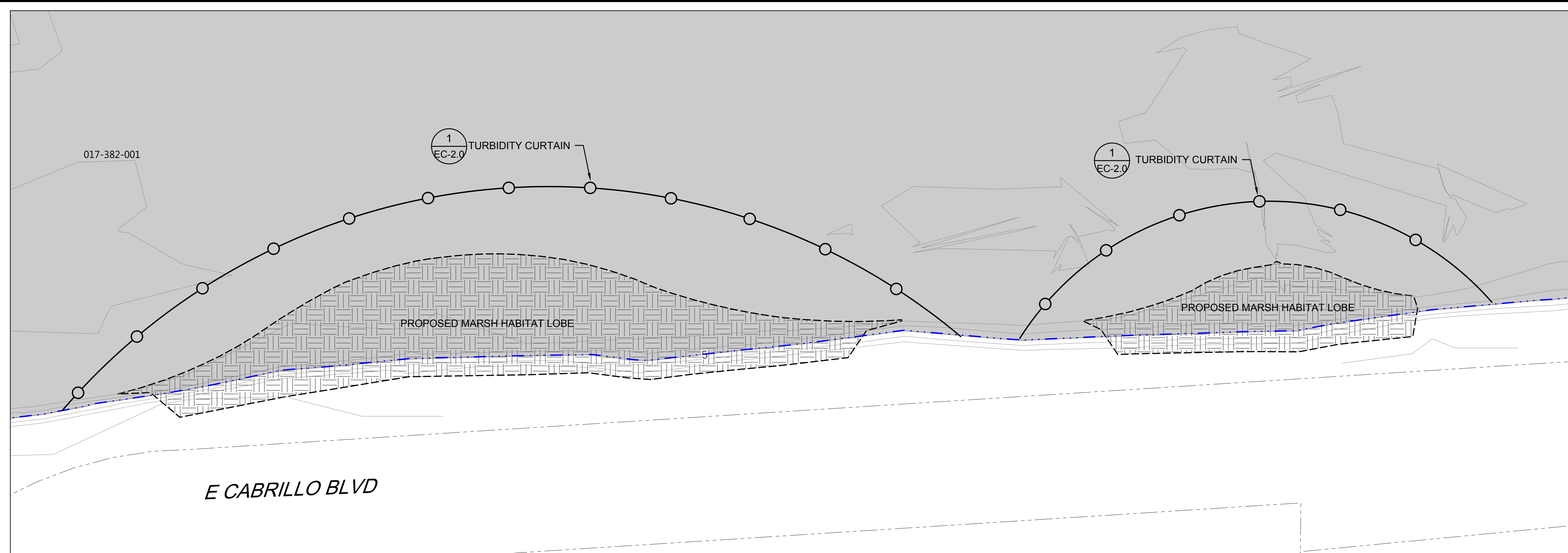
REVISIONS

NO. \_\_\_\_\_

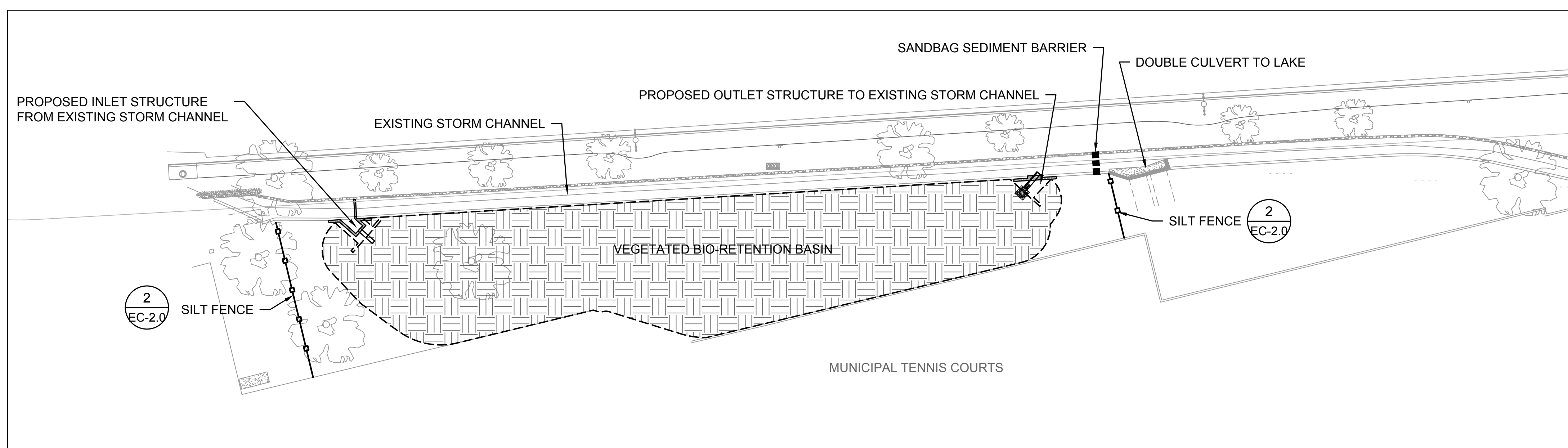
# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION TESC PLAN

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
EC-1.1  
DWG. NO. \_\_\_\_\_  
SHT. 18 OF 53

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CENTRAL AND NORTHEAST HABITAT LOBES



BIO-RETENTION BASIN

### LEGEND

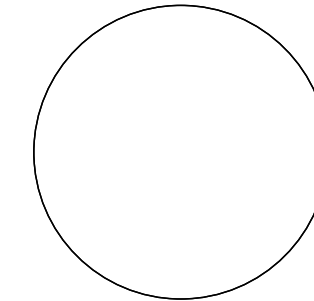
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PROPOSED ELEMENT GRADING EXTENT
- PARCEL BOUNDARY
- TURBIDITY CURTAIN
- SANDBAG SEDIMENT BARRIER

SCALE: 1"=30'

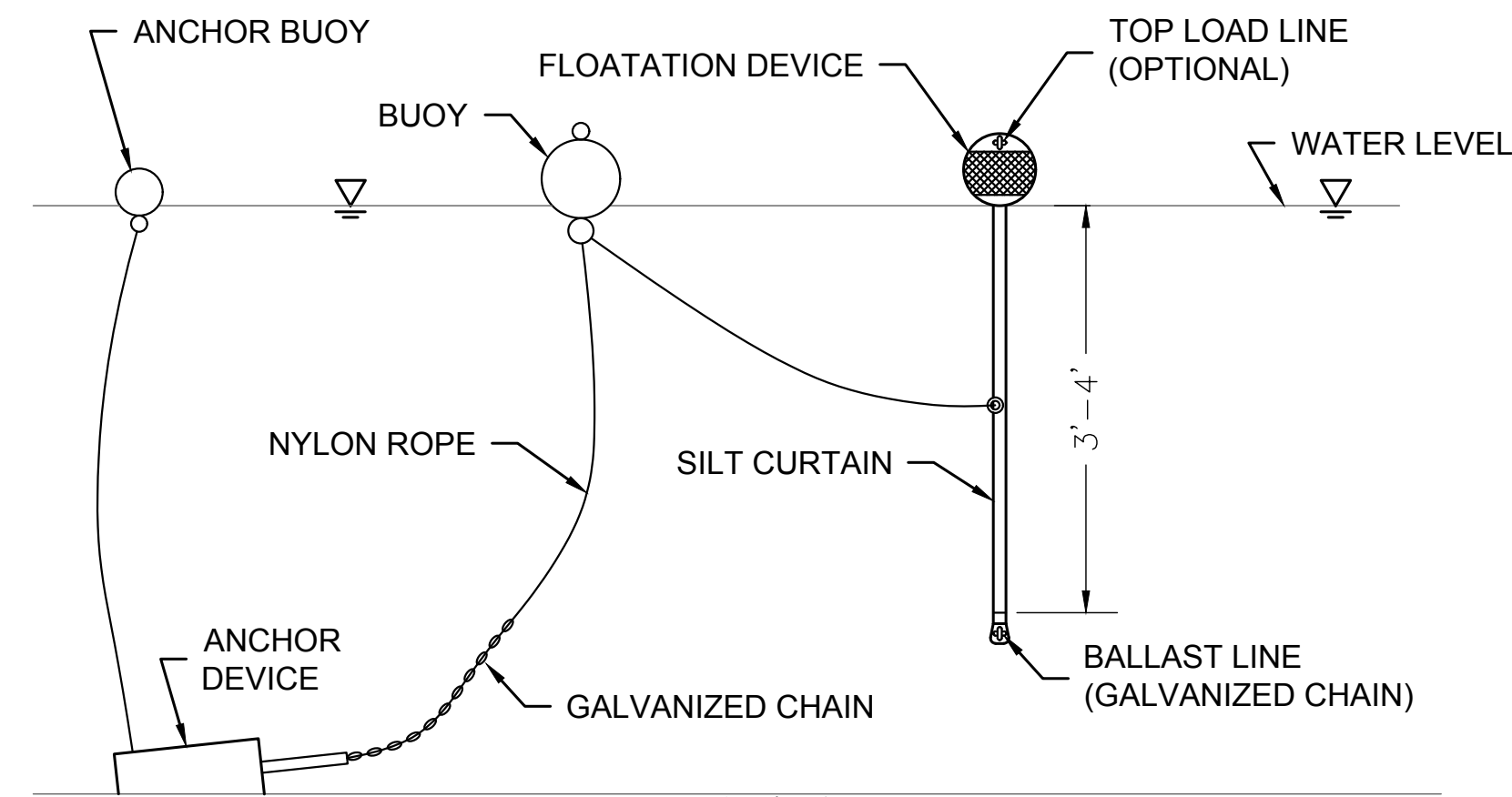
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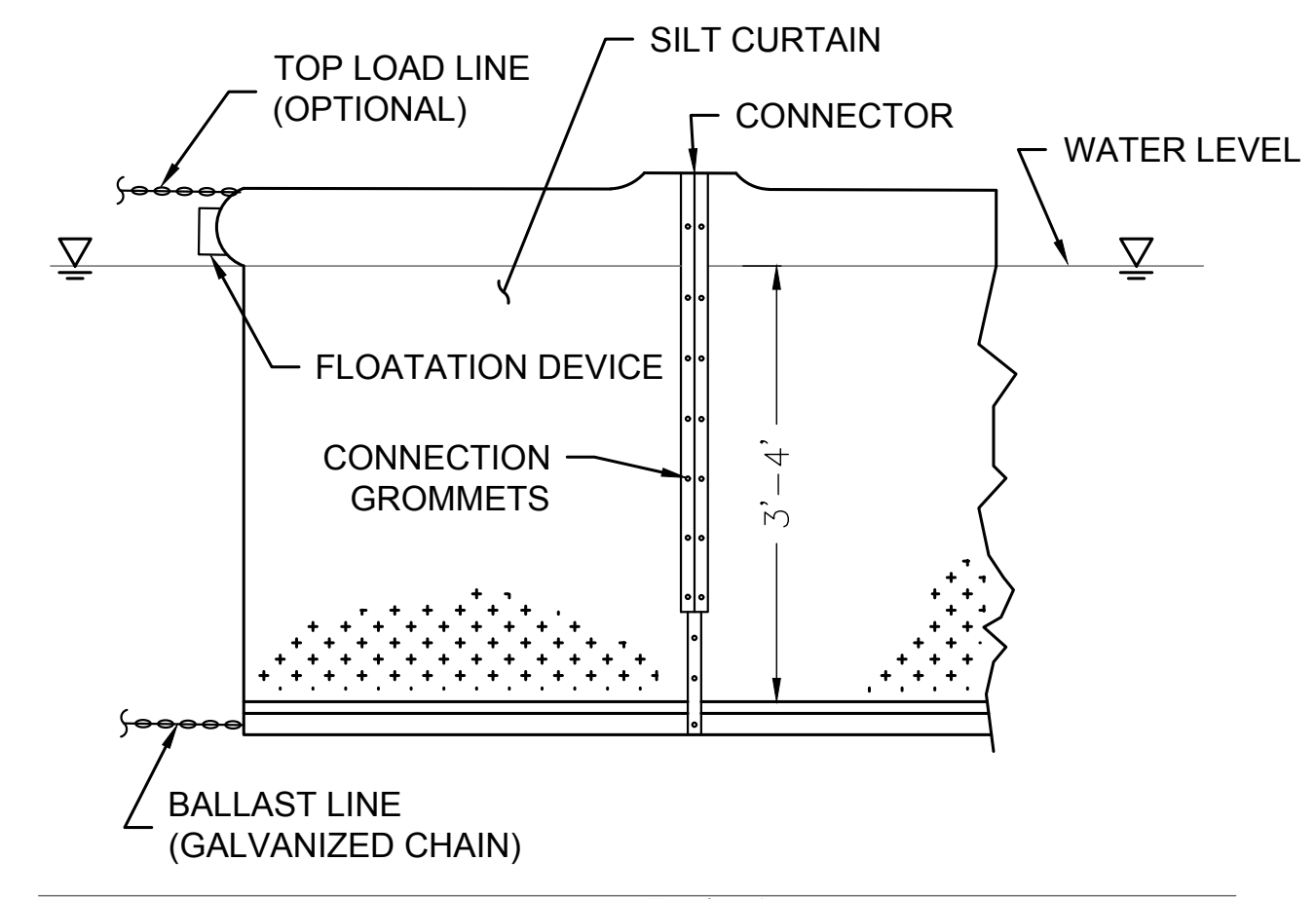
PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



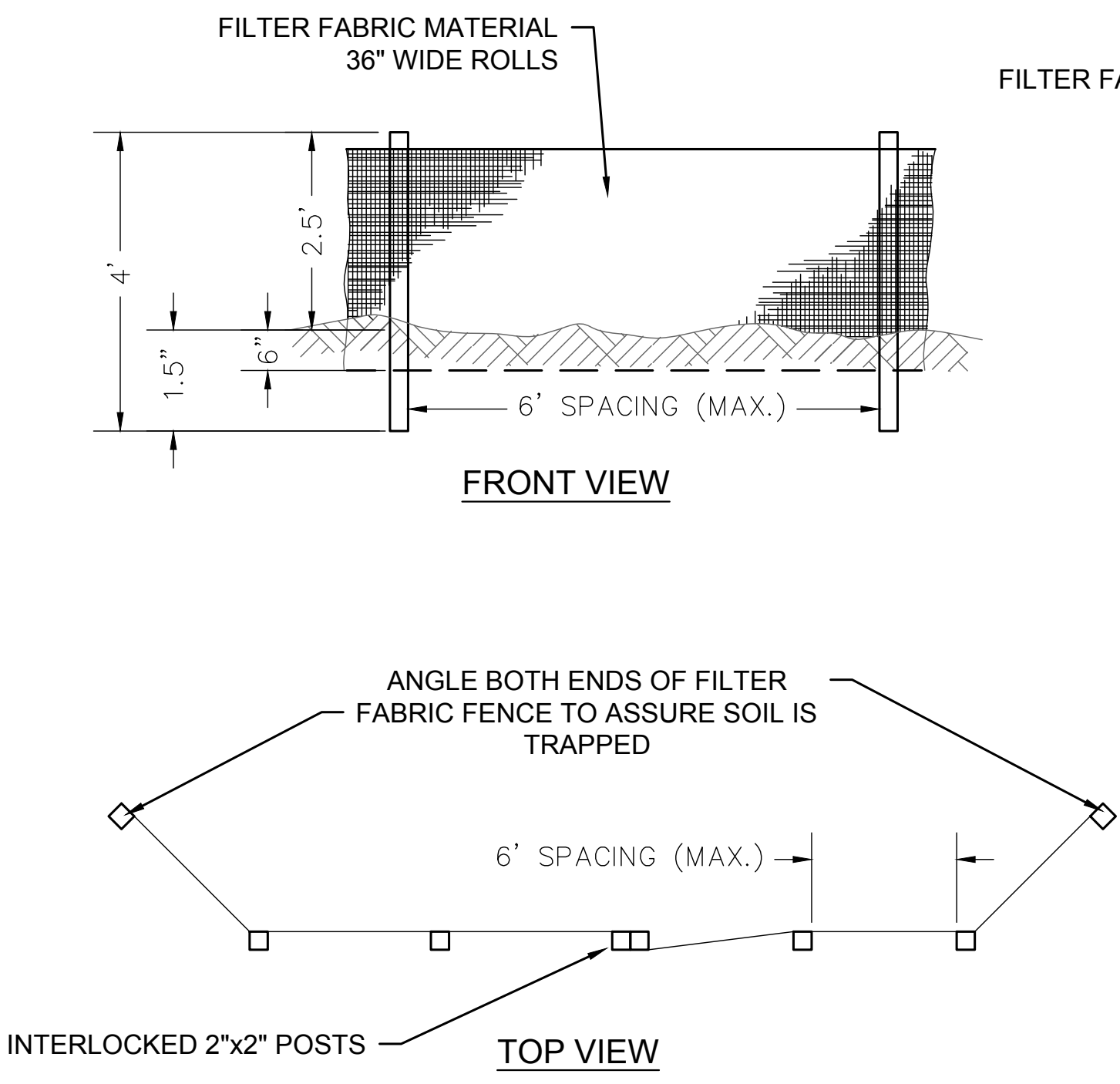
SIDE VIEW



FRONT VIEW

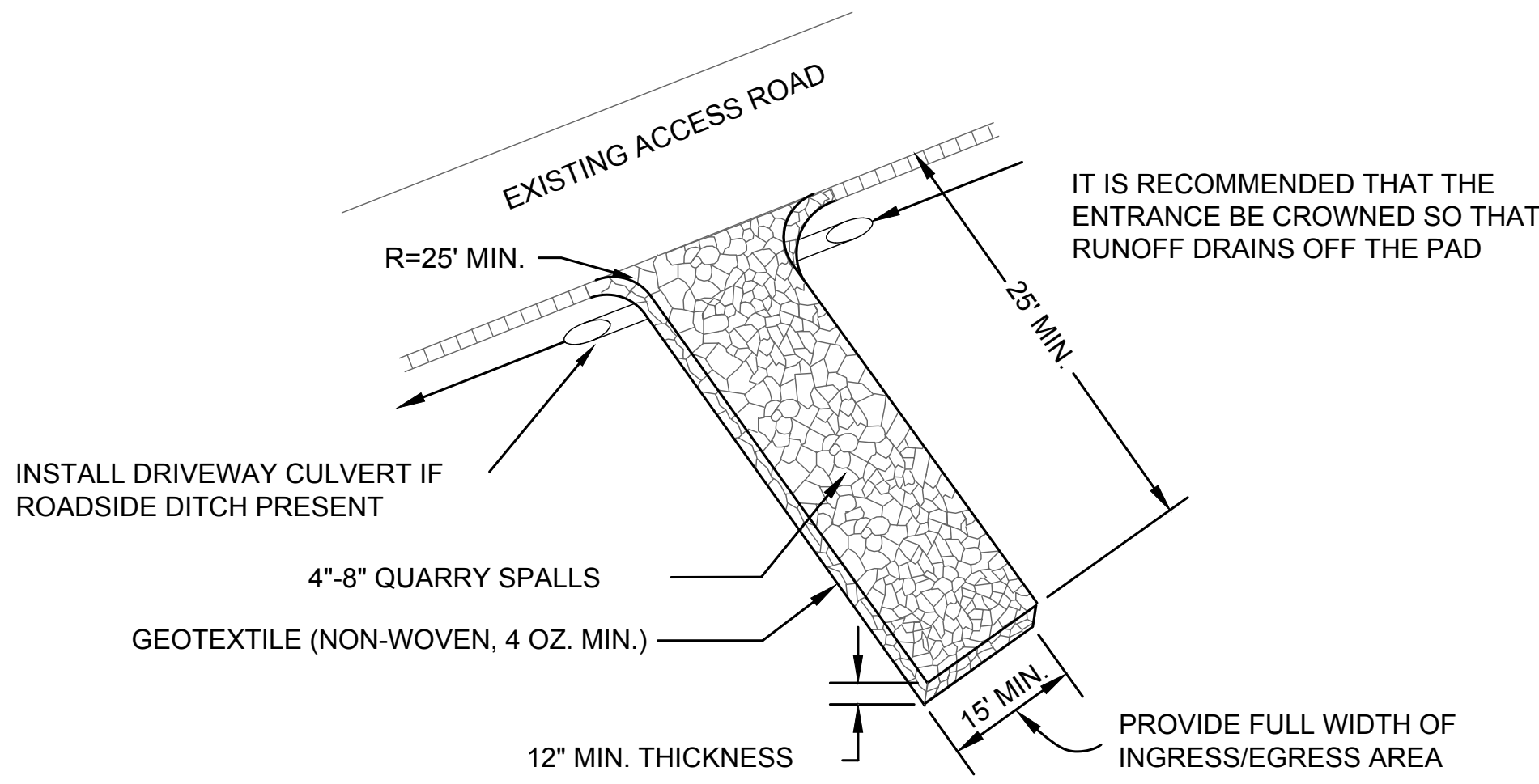
**1 TURBIDITY CURTAIN**  
EC-1.0 SCALE: NTS

- TURBIDITY CURTAIN NOTES:**
1. AROUND PILE DRIVING AREAS AND EXISTING PILE REMOVAL AREAS, LENGTH OF CURTAIN SHALL EXTEND TO MUDLINE FOR ALL TIDE LEVELS.
  2. ALL OTHER AREAS, WHERE DEBRIS FROM DEMOLITION WORK MAY EXIST, LENGTH OF CURTAIN SHALL BE 6 FEET.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TURBIDITY CURTAIN THROUGHOUT ALL TIDAL CONDITIONS AND WEATHER EXPECTED DURING THE CONSTRUCTION PERIOD, AS REQUIRED BY THE APPROVED PROJECT PERMITS.
  4. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.



**2 SILT FENCE**  
EC-1.1 SCALE: NTS

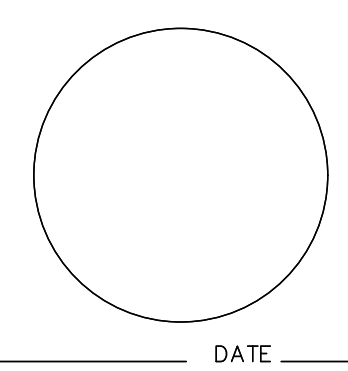
- SILT FENCE NOTES:**
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
  2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
  3. STITCHED LOOPS TO BE INSTALLED DOWNHILL SIDE OF SLOPE.
  4. COMPACT ALL AREAS OF FILTER FABRIC TRENCH.



**3 STABILIZED CONSTRUCTION ENTRANCE**  
SCALE: NTS



PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

**ANDRÉE CLARK BIRD REFUGE  
COASTAL RESTORATION  
TESC DETAILS AND NOTES**

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
EC-2.0  
DWG. NO. \_\_\_\_\_  
SHT. 19 OF 53



PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN APPROVED: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
65%  
DRAFT

NO.	DATE	APPROVED	DESIGN	CW	EBP	MW	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION DEMOLITION AND CLEARING PLAN

PBW NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
D-1.0  
DWG. NO. \_\_\_\_\_  
SHT. 20 OF 53

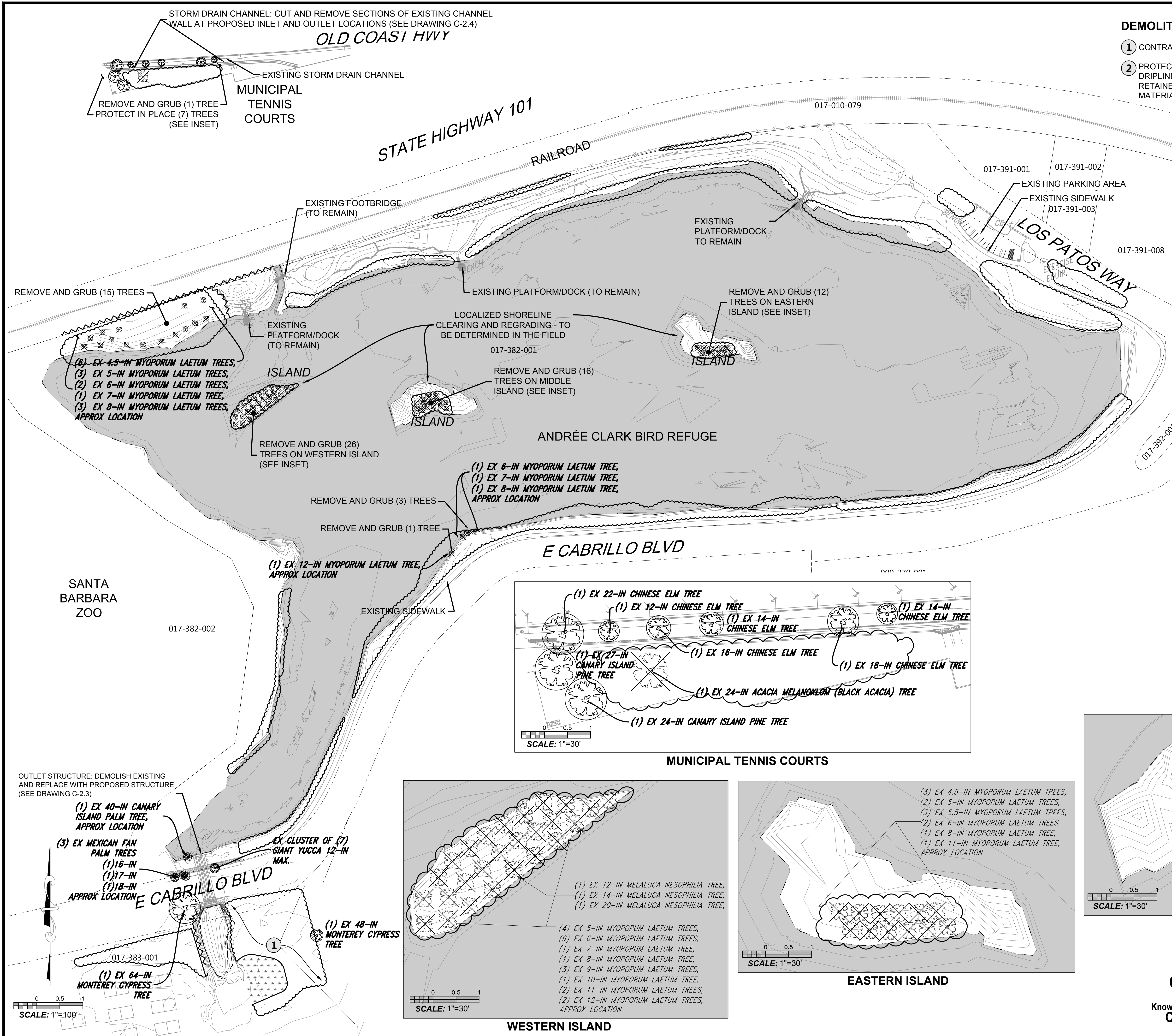
### DEMOLITION NOTES:

- CONTRACTOR SHALL ERADICATE WEEDS PER SPECIFICATIONS
- PROTECT EXISTING TREES TO BE RETAINED WITH FENCING ALONG DRIPLINE OF TREE. LIMIT WORK WITHIN DRIPLINE OF TREES TO BE RETAINED. DO NOT STORE ANY CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN THE DRIPLINE OF TREES TO BE RETAINED.

### LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- REMOVE EXISTING CHAINLINK FENCE
- LAGOON HIGH WATER ELEVATION (+4.88' NGVD29)
- MHHW (+2.62' NGVD29)
- PARCEL BOUNDARY
- CLEAR AND GRUB SELECTED NON-NATIVE VEGETATION
- SALVAGE SALT GRASS AND PICKLEWEED AT DIRECTION OF OWNER
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.



Know what's below. Call before you dig.

PROPERTY LINES ARE APPROXIMATE

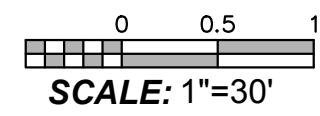
PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT CONTROL POINT TABLE				
Point #	Northing	Easting	Elevation	Description

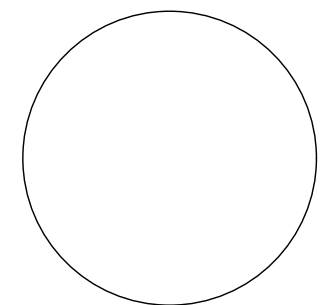
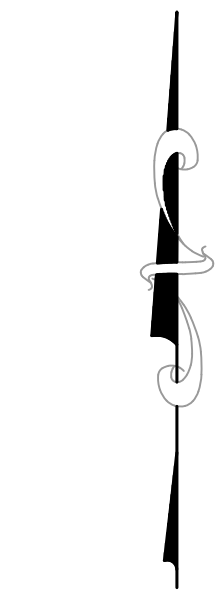
PLACEHOLDER — TO BE POPULATED AT 90%



PROPERTY LINES ARE APPROXIMATE



SCALE: 1"=30'



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_  
65 %  
DRAFT

NO.	DATE	APPROVER	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PROJECT CONTROL POINTS

PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
C-1.0  
DWG. NO. \_\_\_\_\_  
SHT. 21 OF 53



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN BY: EPK  
CHECKED BY: MW  
65%  
DRAFT

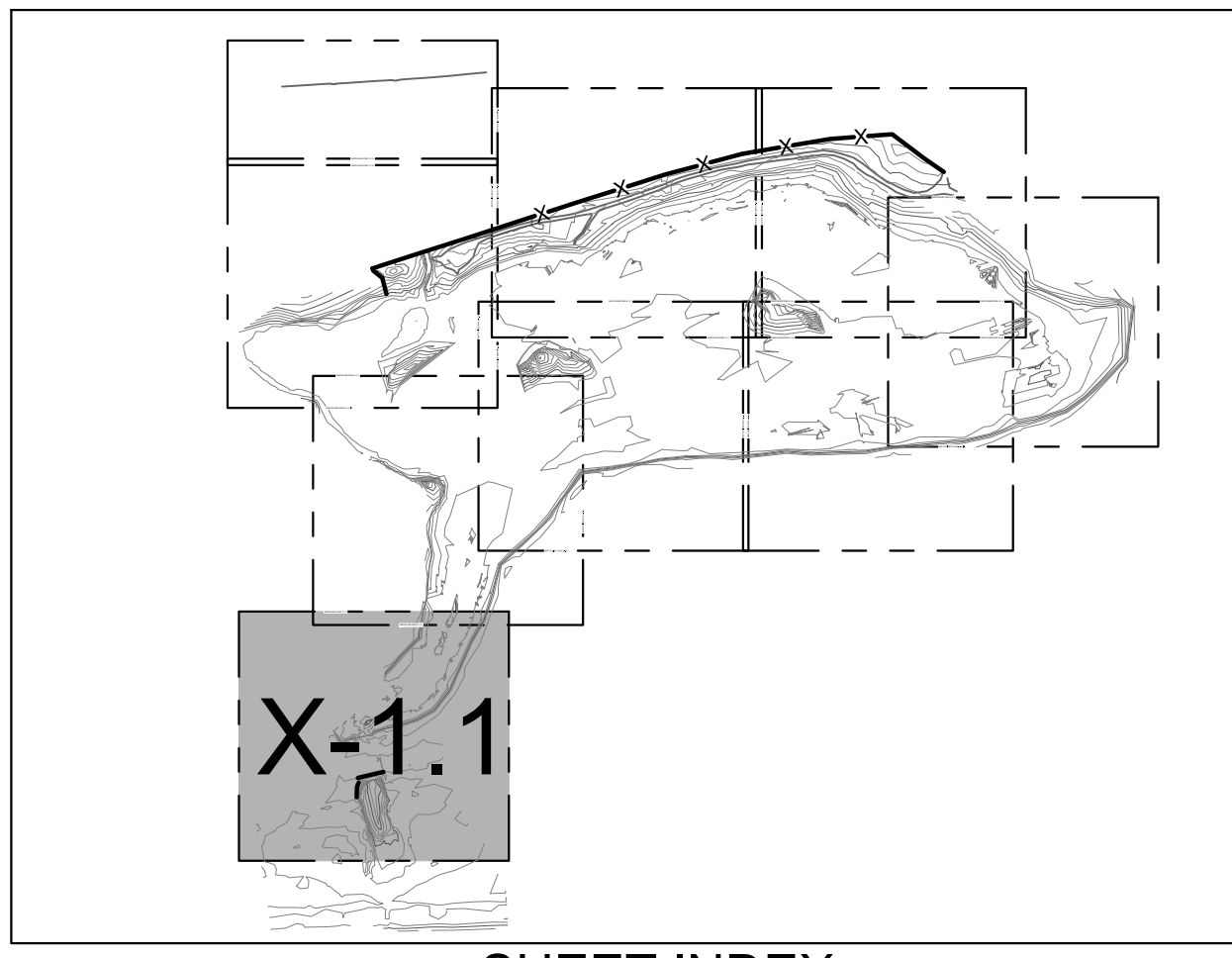
DATE APPROVED: \_\_\_\_\_

NO.	DATE	APPROVED	REVISIONS

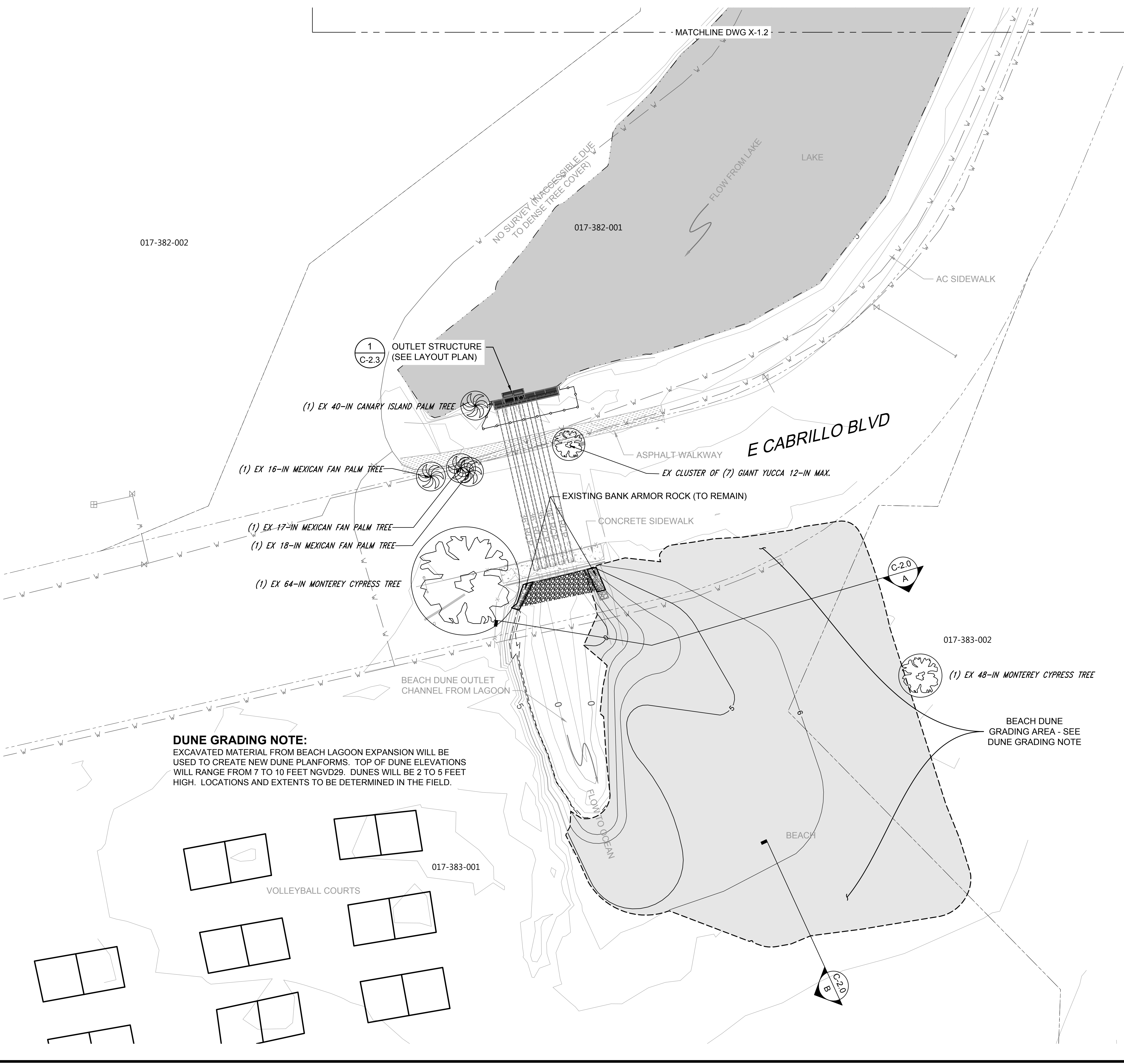
ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION  
GRADING AND CONST. MAT. PLAN (1 OF 9)**

PBW. NO. \_\_\_\_\_  
 BID. NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
**C-1.1**  
 DWG. NO. \_\_\_\_\_  
 SHT. 22 OF 53

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SHEET INDEX



**DUNE GRADING NOTE:**  
 EXCAVATED MATERIAL FROM BEACH LAGOON EXPANSION WILL BE USED TO CREATE NEW DUNE PLANFORMS. TOP OF DUNE ELEVATIONS WILL RANGE FROM 7 TO 10 FEET NGVD29. DUNES WILL BE 2 TO 5 FEET HIGH. LOCATIONS AND EXTENTS TO BE DETERMINED IN THE FIELD.

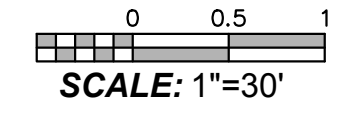
**LEGEND**

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- MHHW
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED OUTLET SCOUR PROTECTION ROCK
- TREE TO BE PROTECTED IN PLACE

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

**NOTES:**

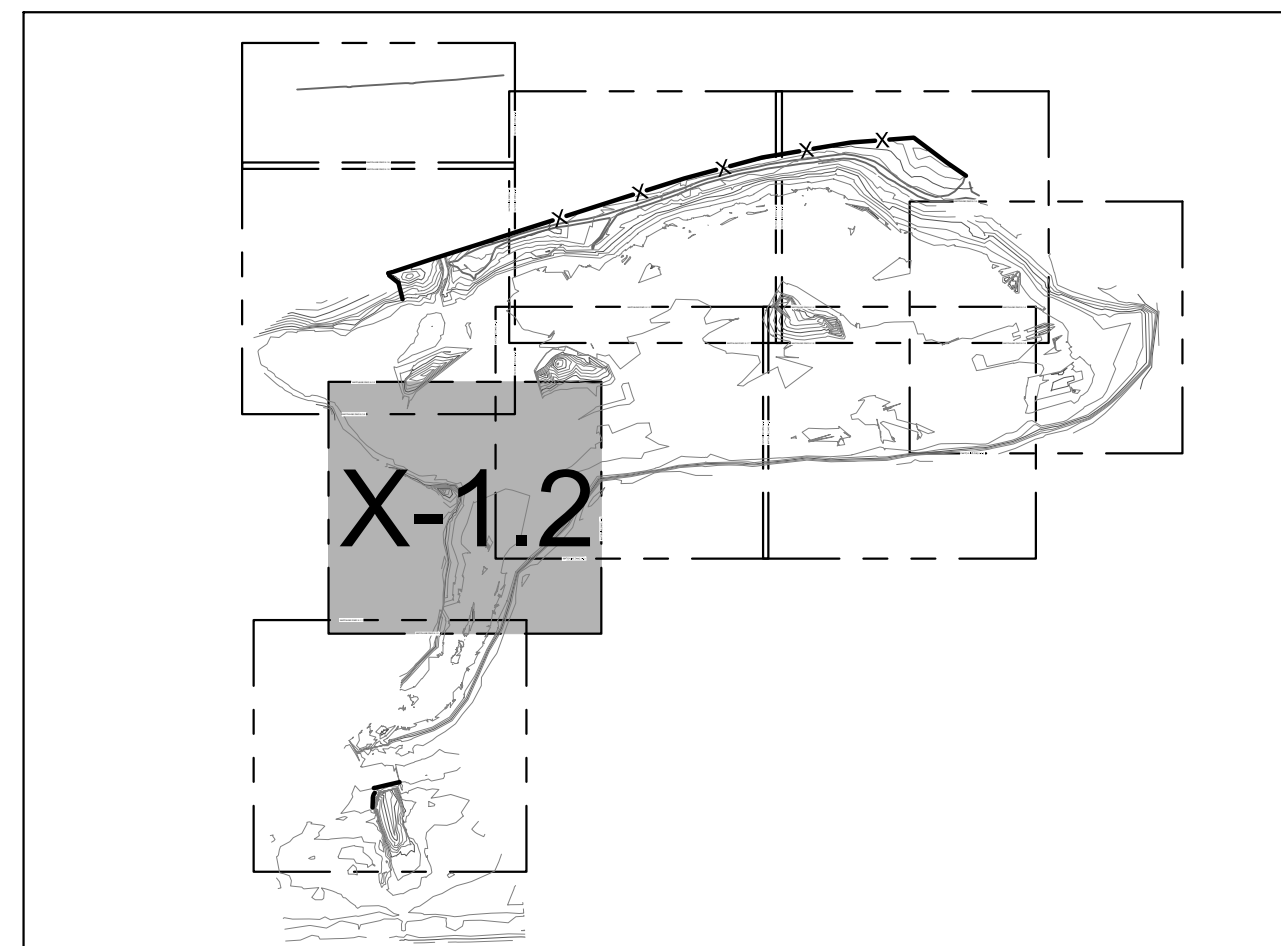
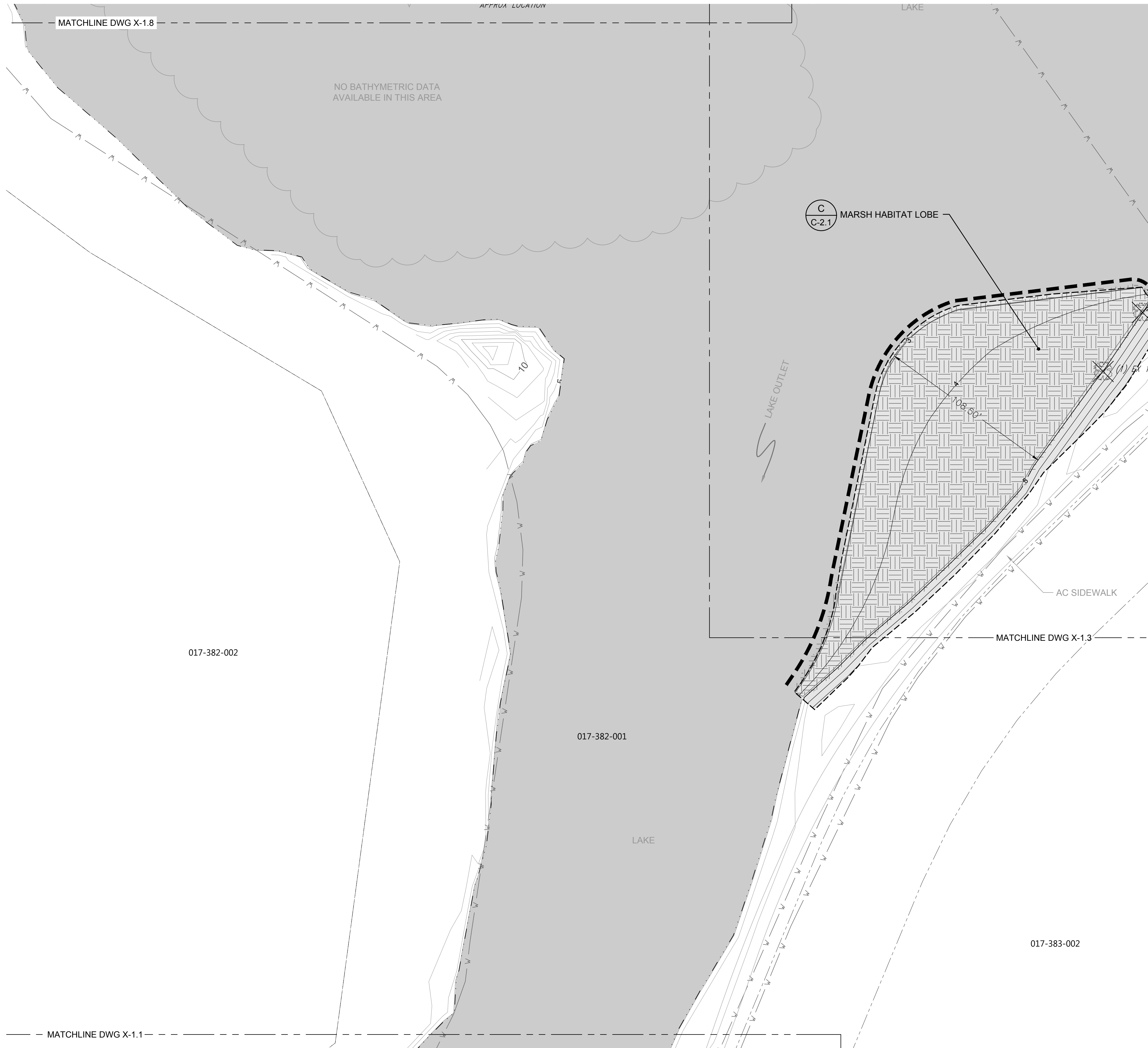
1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.
4. SEE DRAWING G-2 FOR ADDITIONAL SURVEY NOTES AND LEGEND.
5. SEE DRAWINGS L-1.1 TO L-1.8 FOR FENCING, PLANTING, AND HABITAT DESIGN.



Know what's below.  
Call before you dig.

PROPERTY LINES ARE APPROXIMATE

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



SHEET INDEX

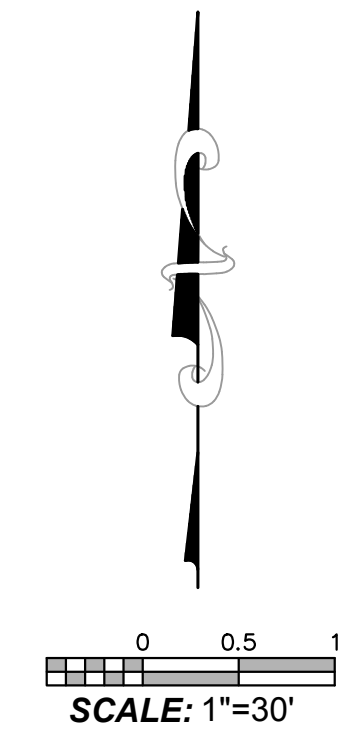
LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED COIR LOG
- PROPOSED WETLAND SOILS
- TREE TO BE PROTECTED IN PLACE

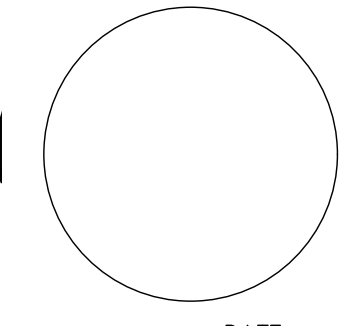
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PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED:	DATE
CITY ENGINEER	ORIGINAL SIGNED DATE

DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65 %  
DRAFT

LEGEND

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
GRADING AND CONST. MAT. PLAN (2 OF 9)

PBW. NO.	-
BID NO.	-
SHT. DES.	C-1.2
DWG. NO.	-
SHT. OF	23 OF 53

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PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

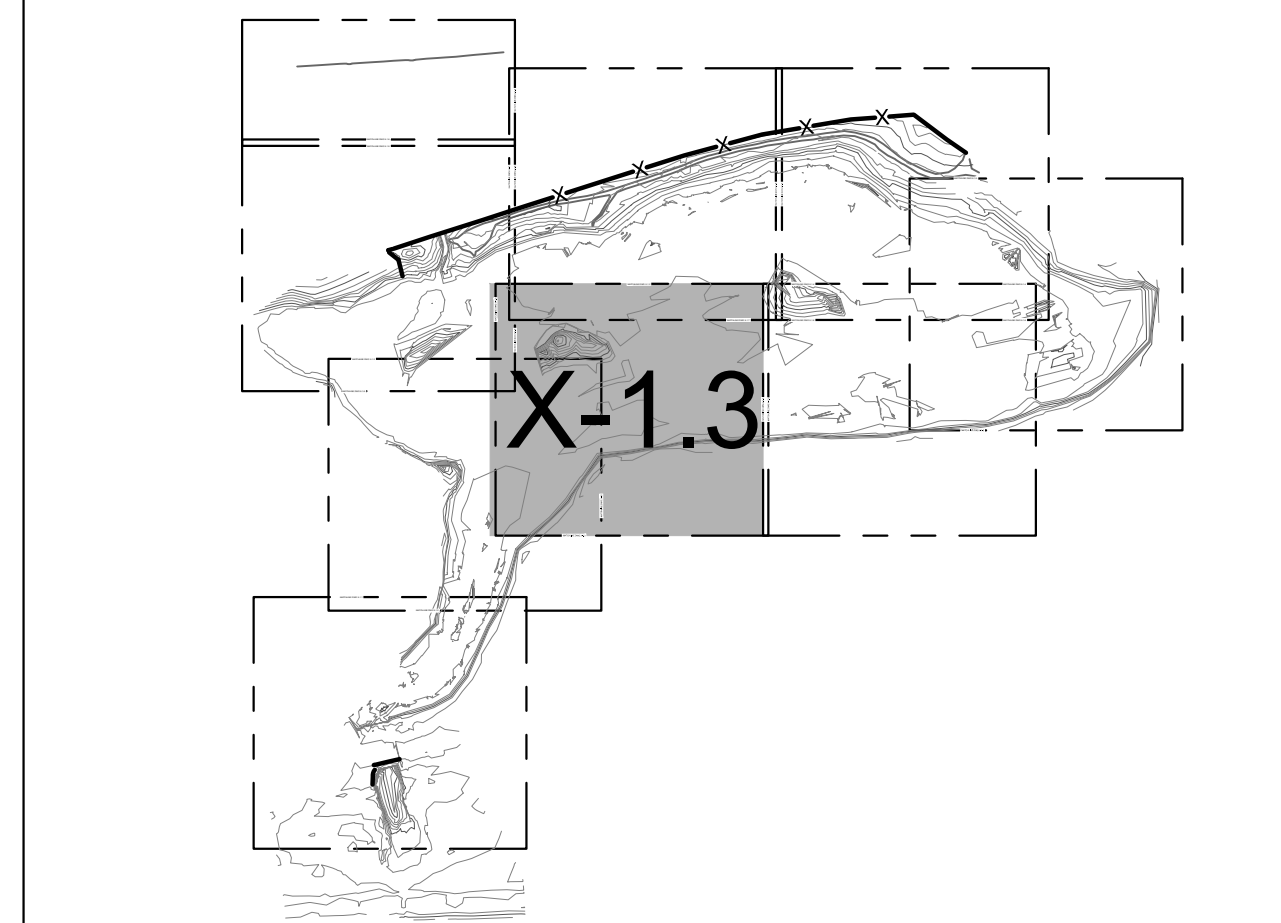
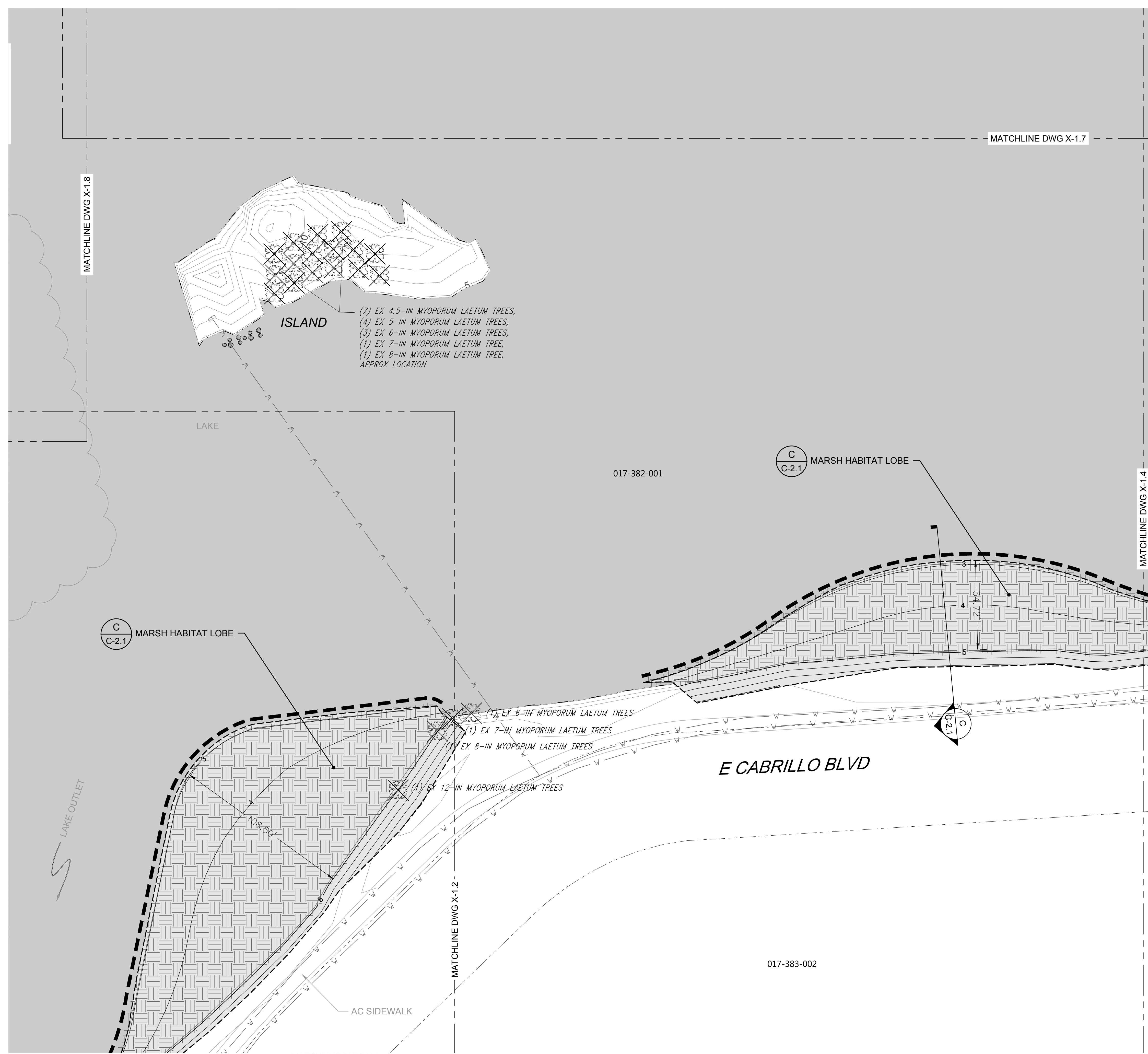
APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
 GRADING AND CONST. MAT. PLAN (3 OF 9)

PBW. NO. \_\_\_\_\_  
 BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
**C-1.3**  
 DWG. NO. \_\_\_\_\_  
 SHT. 24 OF 53



SHEET INDEX

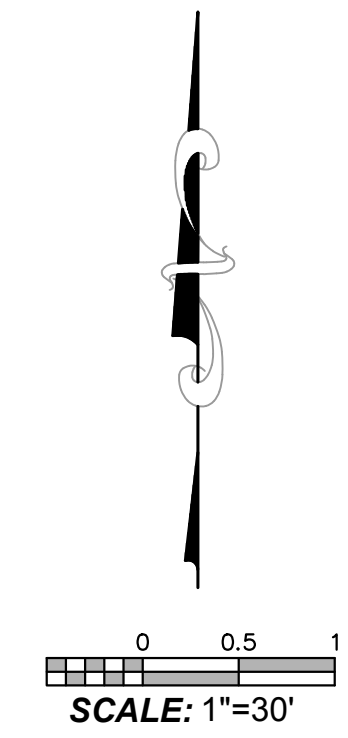
LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED COIR LOG
- PROPOSED WETLAND SOILS
- PROPOSED SANDSTONE BOULDERS FOR TURTLE BASKING, TYP.
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

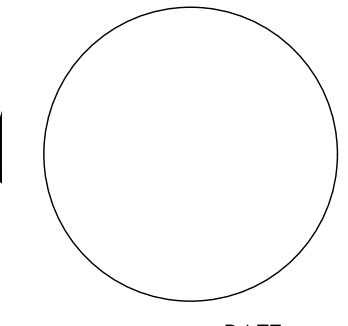
NOTES:

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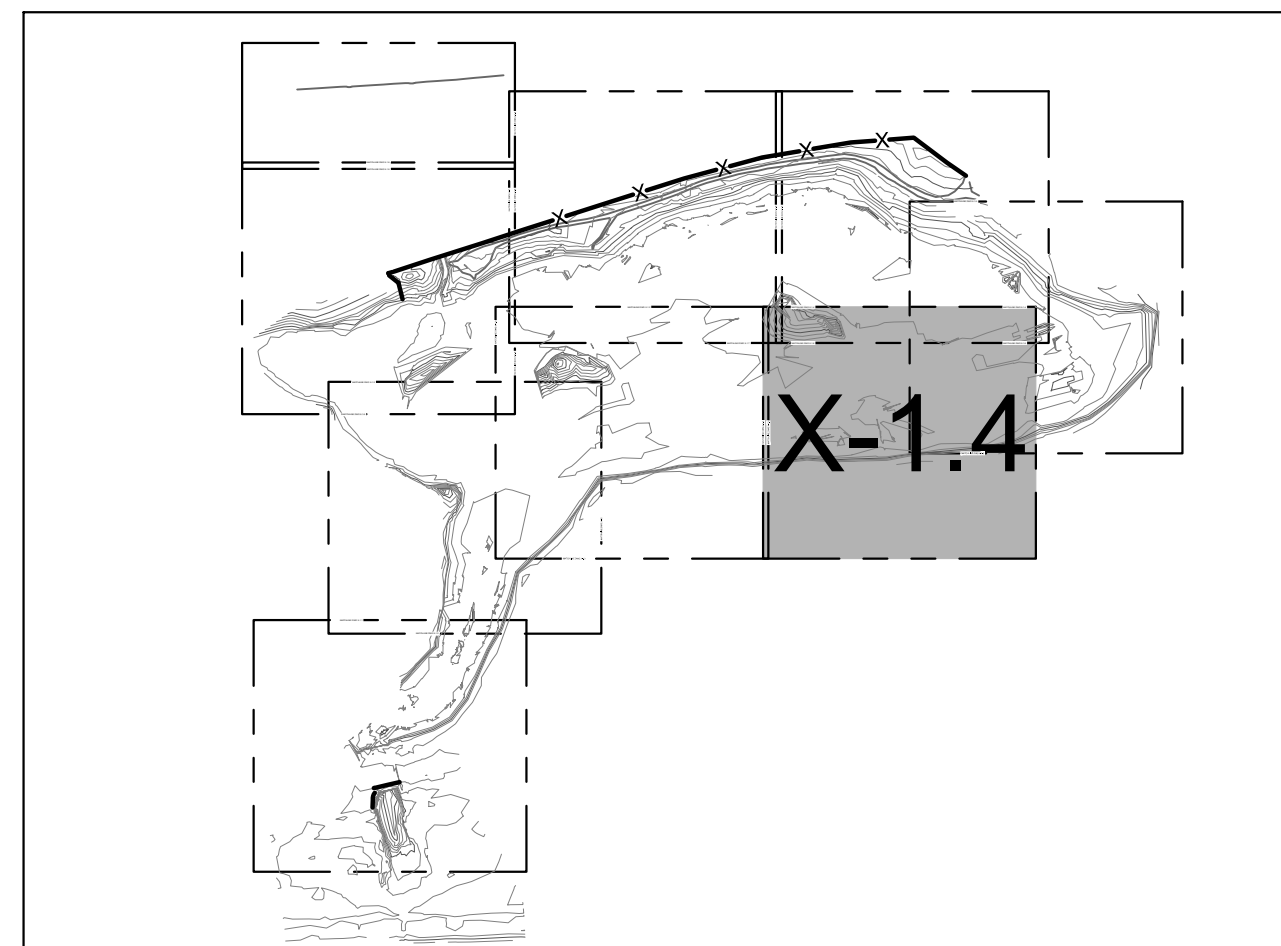
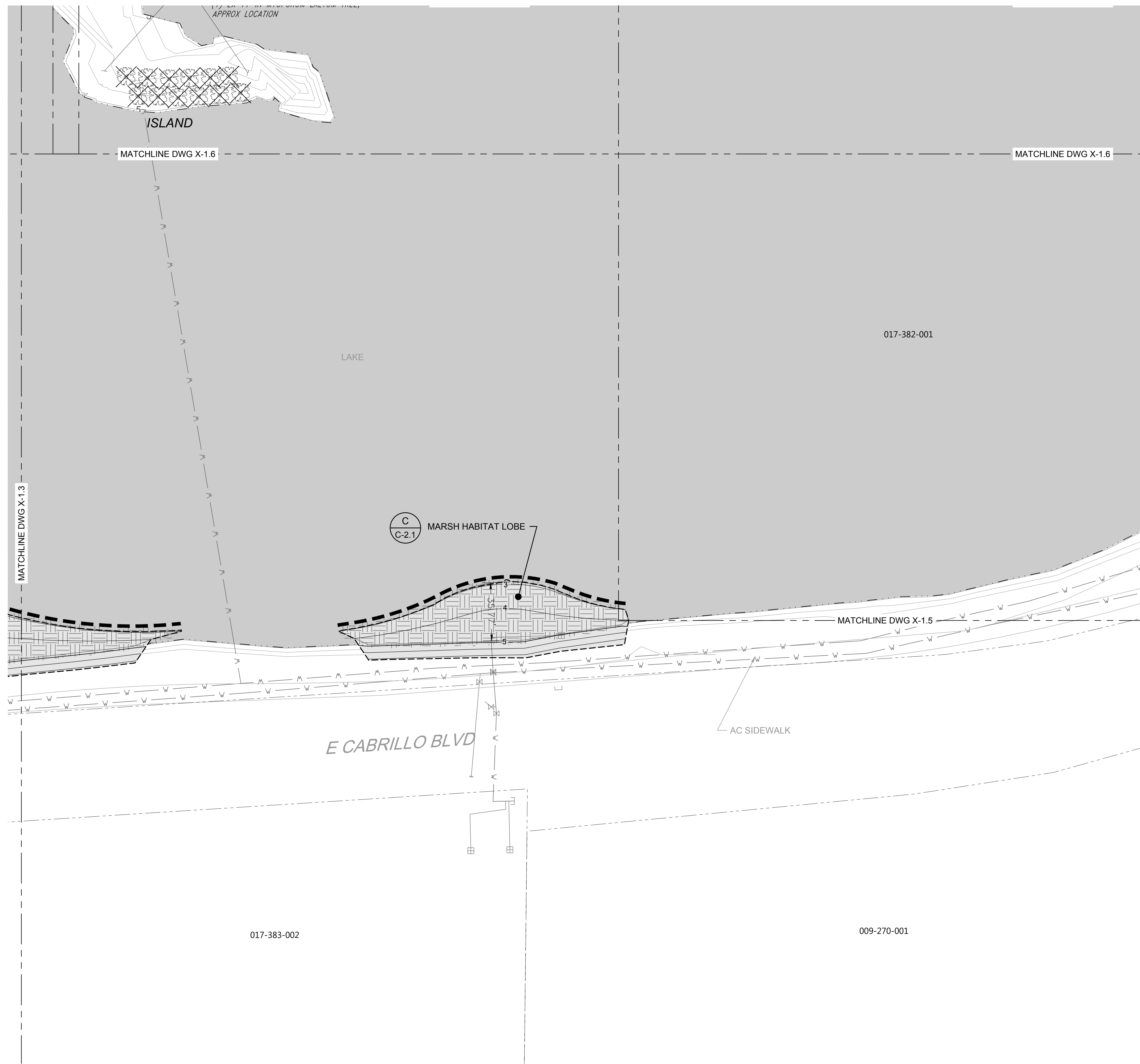
Know what's below.  
Call before you dig.

PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_





SHEET INDEX

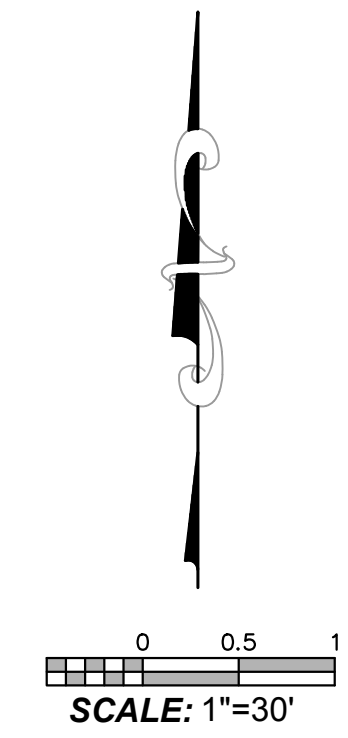
LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED WEIR LOG
- PROPOSED WETLAND SOILS
- TREE TO BE REMOVED

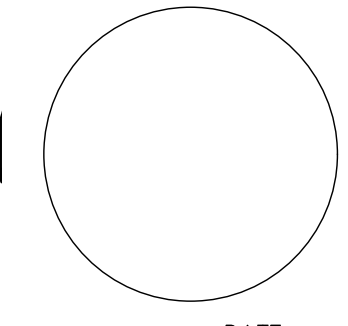
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ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

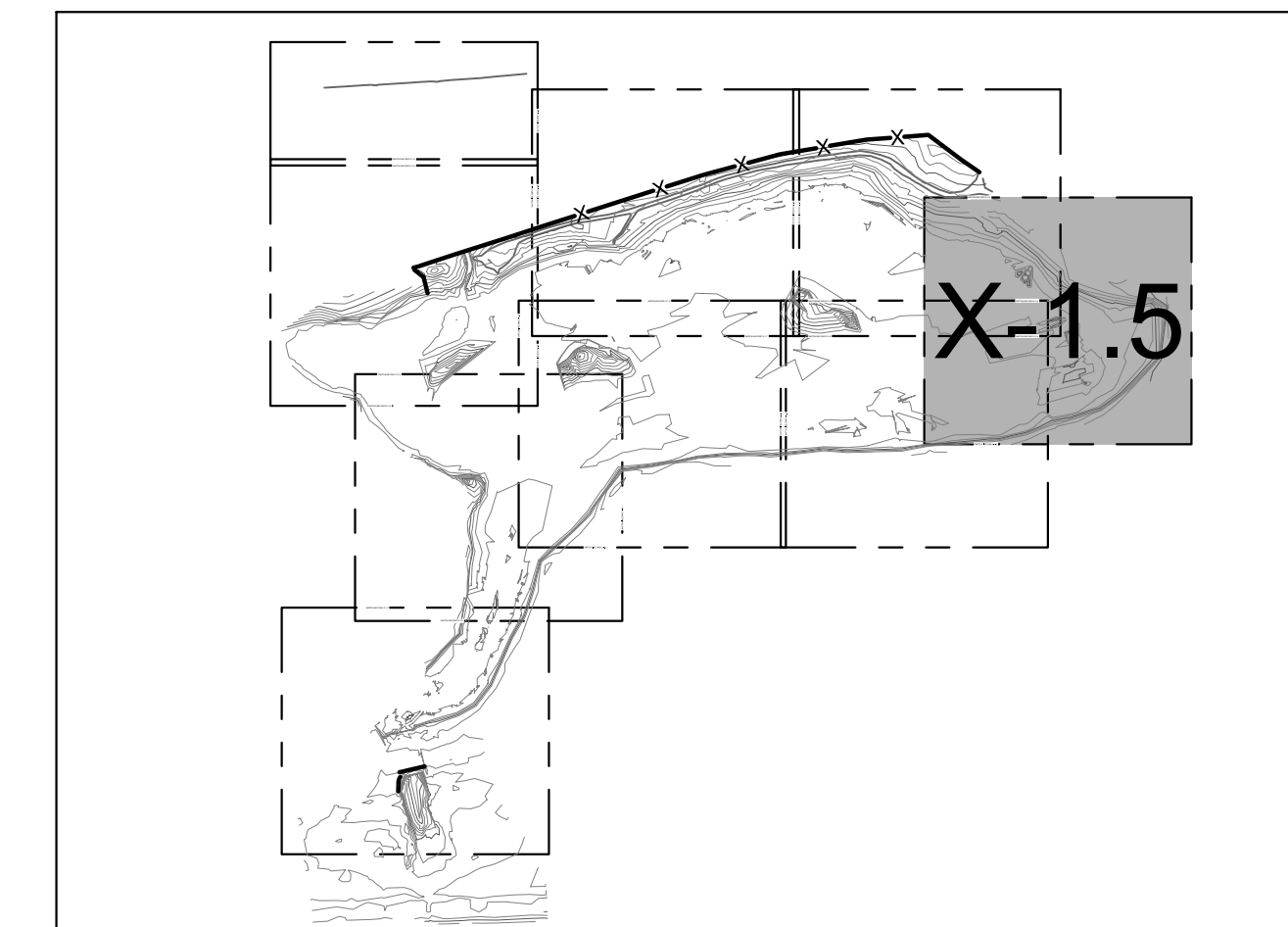
DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65%  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
GRADING AND CONST. MAT. PLAN (4 OF 9)

PBW. NO.	-
BID NO.	-
SHT. DES.	C-1.4
DWG. NO.	-
SHT. OF	25 OF 53

K:\Projects\1214-City of Santa Barbara\Coastal Design\Construction Plans\C1\_1-C1\_9 ACRB.dwg; 4/28/2020 8:21 AM; Erik Pipkin



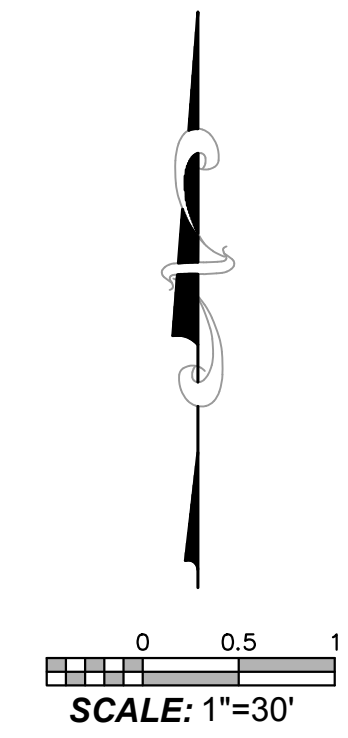
SHEET INDEX

**LEGEND**

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY

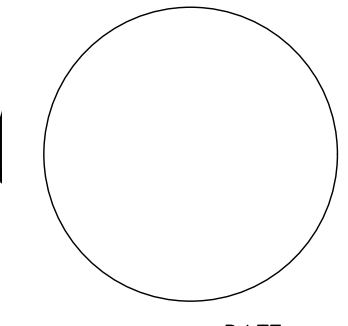
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PROPERTY LINES  
ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS  
DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN APPROVED: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
65 %  
DRAFT

NO.	DATE	APPROVED	DESIGN	EBP	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
GRADING AND CONST. MAT. PLAN (5 OF 9)

PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
C-1.5  
DWG. NO. \_\_\_\_\_  
SHT. 26 OF 53



PUBLIC WORKS  
DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

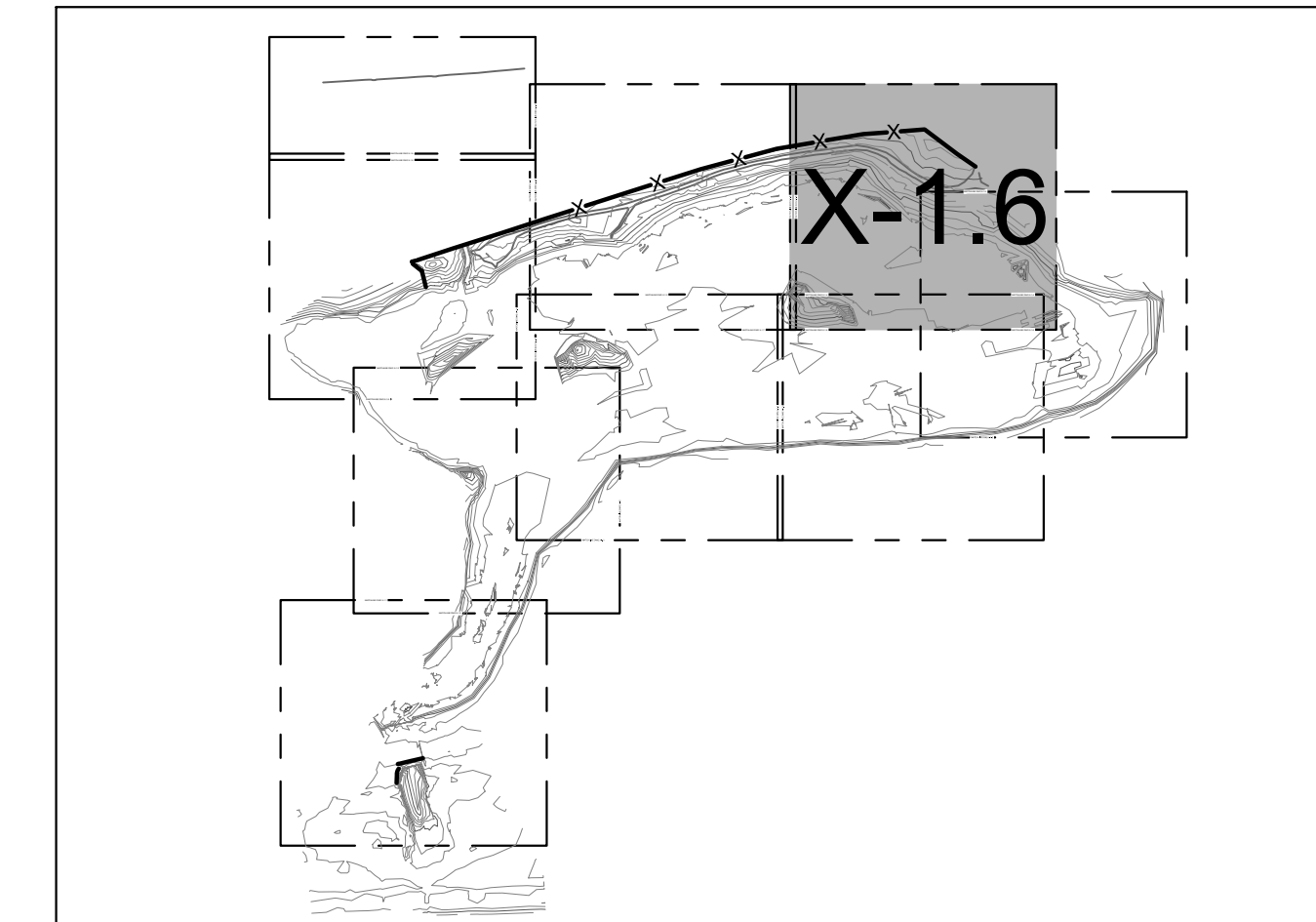
DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65 %  
DRAFT

DATE APPROVED

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
 GRADING AND CONST. MAT. PLAN (6 OF 9)

PBW. NO. \_\_\_\_\_  
 BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
 C-1.6  
 DWG. NO. \_\_\_\_\_  
 SHT. 27 OF 53



SHEET INDEX

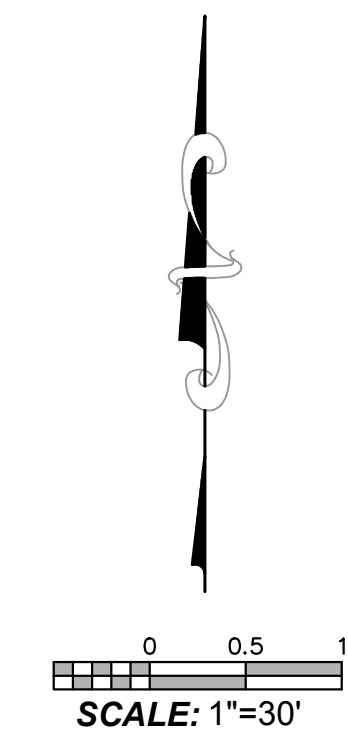
LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

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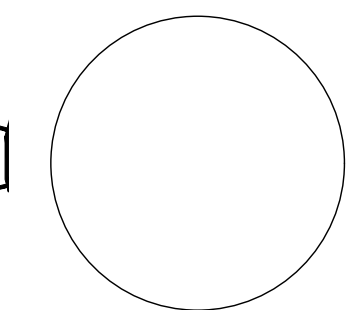


SCALE: 1"=30'



Know what's below.  
Call before you dig.

PROPERTY LINES  
ARE APPROXIMATE



PROJECT ENGINEER

DATE



- (3) EX 4.5-IN MYOPORUM LAETUM TREES,
- (2) EX 5-IN MYOPORUM LAETUM TREES,
- (3) EX 5.5-IN MYOPORUM LAETUM TREES,
- (2) EX 6-IN MYOPORUM LAETUM TREES,
- (1) EX 8-IN MYOPORUM LAETUM TREE,
- (1) EX 11-IN MYOPORUM LAETUM TREE,
- APPROX LOCATION

ISLAND

MATCHLINE DWG X-1.7

EXISTING VIEWING PLATFORM  
 WOODEN PLANK BIRD-WATCHING PLATFORM  
 ELEV 5.98'

PROPOSED INTERPRETIVE SIGN LOCATION

MATCHLINE DWG X-1.4

MATCHLINE DWG X-1.4

017-010-079

LOS PATOSWAY

017-391-001

FOOTPATH (APPROX. 2' W)

FENCE

MATCHLINE DWG X-1.5

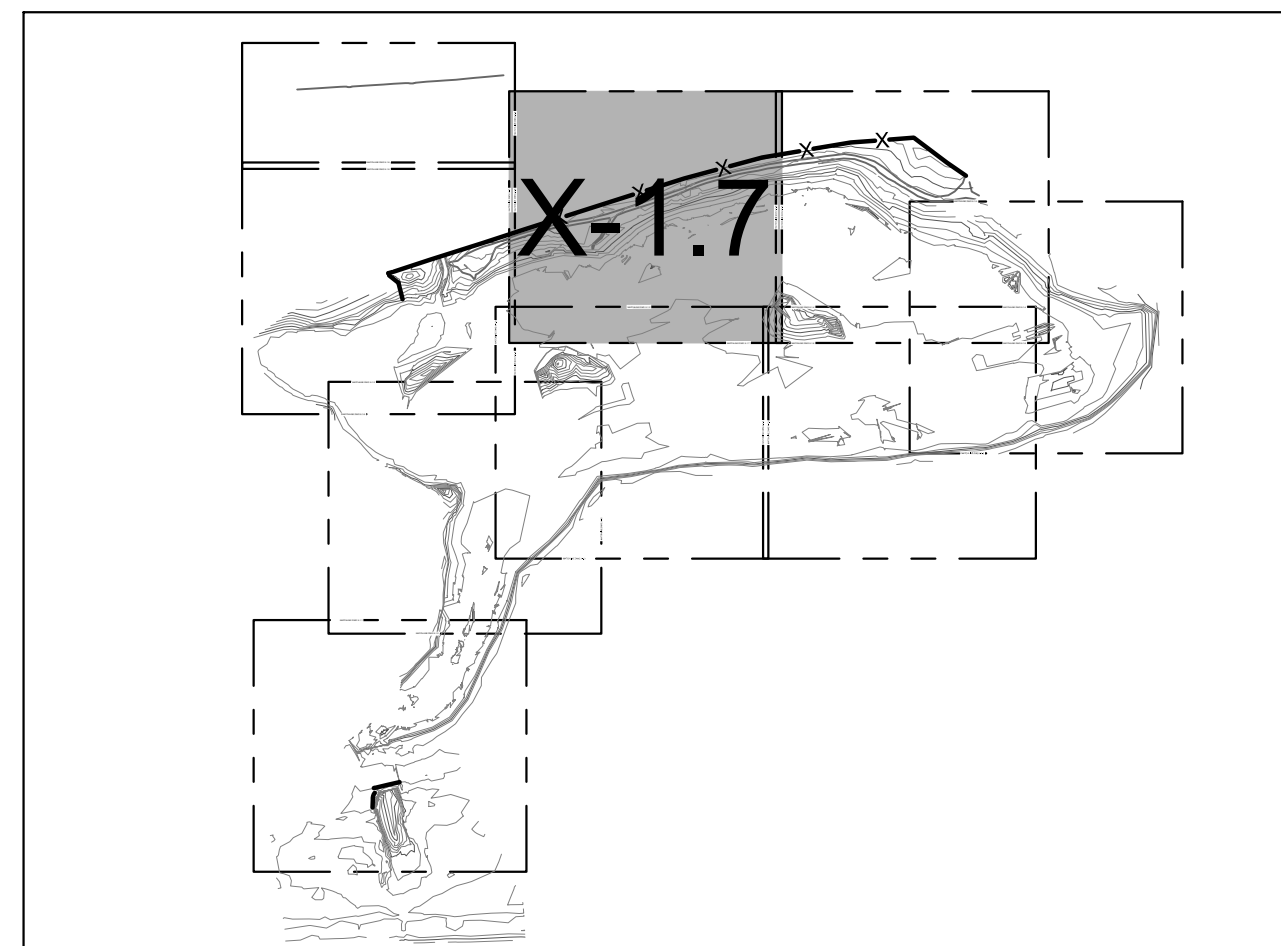
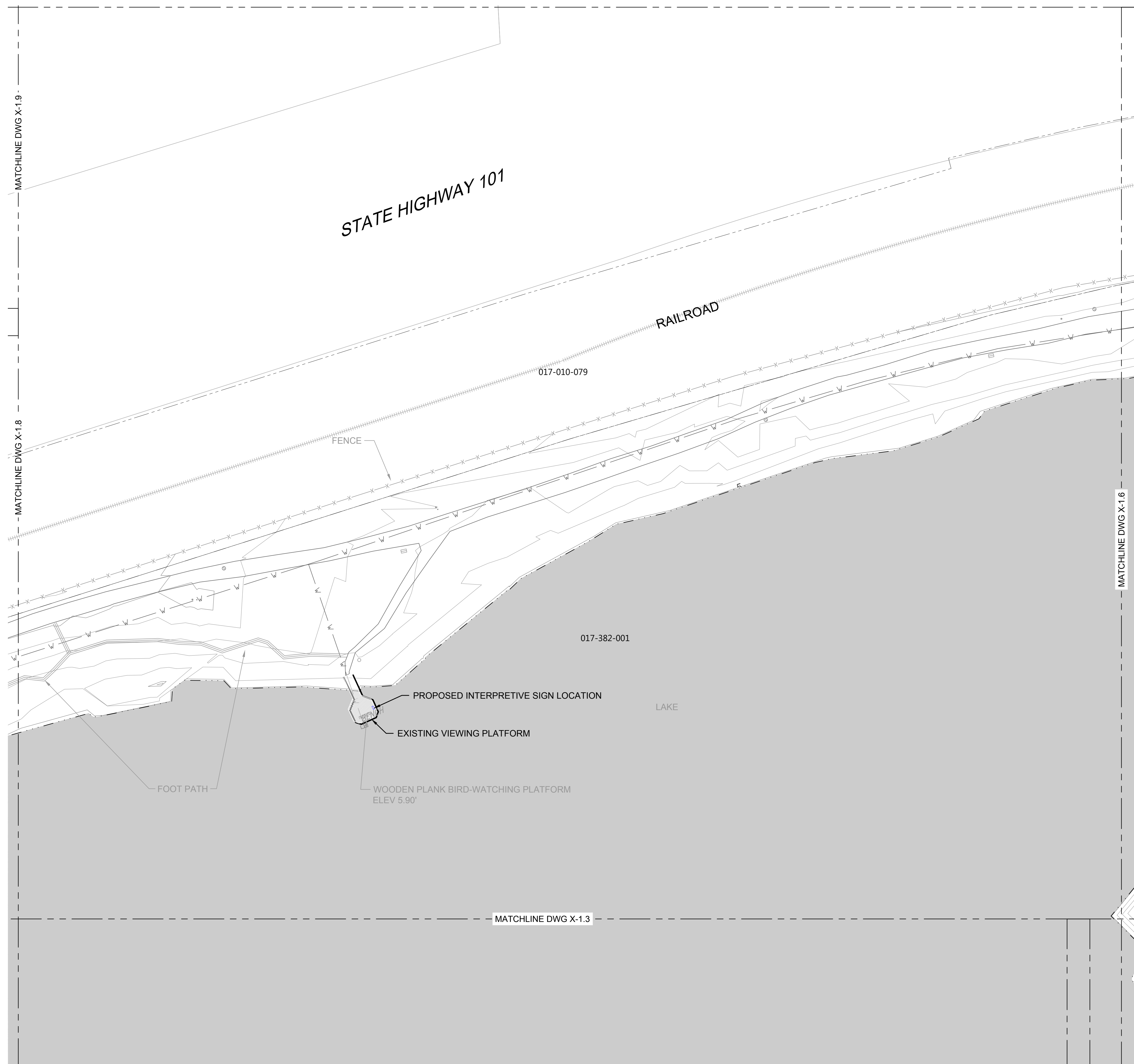
017-382-001

LAKE

CONC. SIDEWALK

BENCH

CB



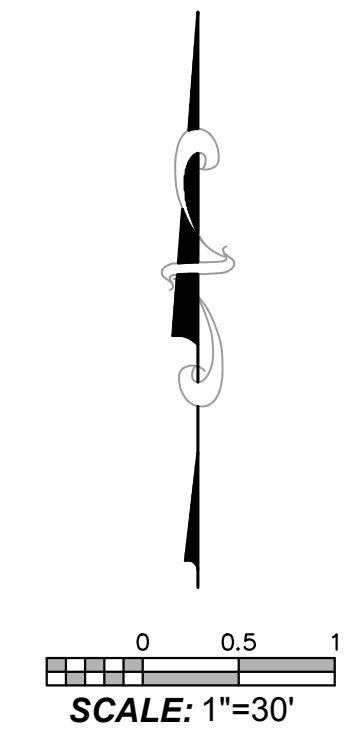
SHEET INDEX

**LEGEND**

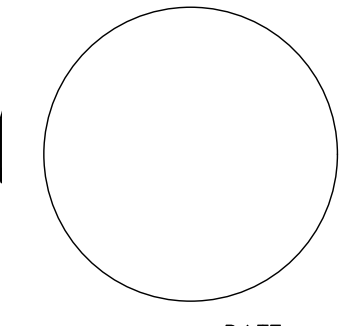
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- PARCEL BOUNDARY

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PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED:	DATE
CITY ENGINEER	ORIGINAL SIGNED DATE

DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65 %  
DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
GRADING AND CONST. MAT. PLAN (7 OF 9)

PBW. NO.	-
BID NO.	-
SHT. DES.	C-1.7
DWG. NO.	-
SHT. OF	28 OF 53

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ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

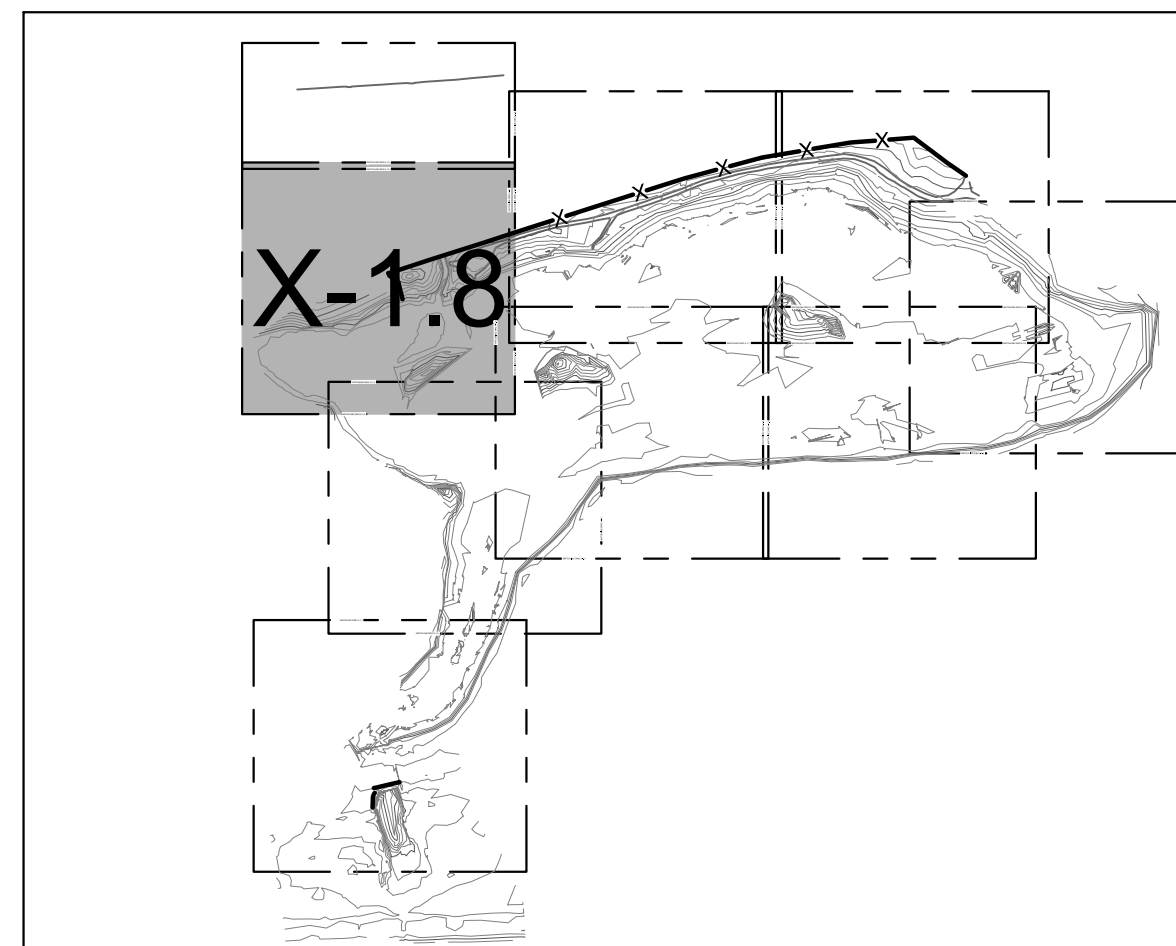
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DRAWN EBP  
CHECKED MW  
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DRAFT

NO.	DATE	APPROVED	REVISIONS

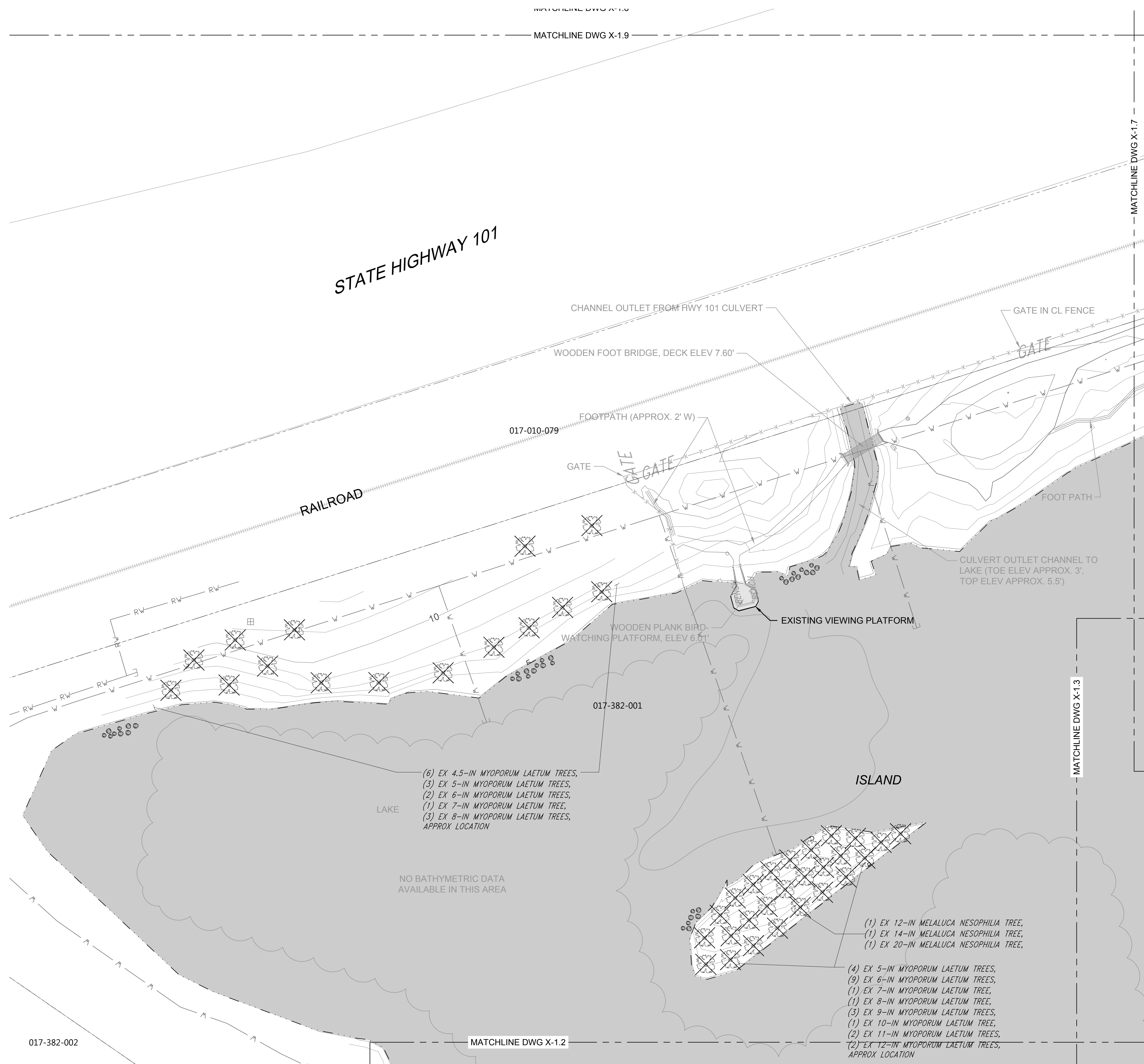
ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
GRADING AND CONST. MAT. PLAN (8 OF 9)

PBW. NO. \_\_\_\_\_  
 BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
 C-1.8  
 DWG. NO. \_\_\_\_\_  
 SHT. 29 OF 53

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SHEET INDEX



(6) EX 4.5-IN MYOPORUM LAETUM TREES,  
 (3) EX 5-IN MYOPORUM LAETUM TREES,  
 (2) EX 6-IN MYOPORUM LAETUM TREES,  
 (1) EX 7-IN MYOPORUM LAETUM TREE,  
 (3) EX 8-IN MYOPORUM LAETUM TREES,  
 APPROX LOCATION

(1) EX 12-IN MELALUCA NESOPHILIA TREE,  
 (1) EX 14-IN MELALUCA NESOPHILIA TREE,  
 (1) EX 20-IN MELALUCA NESOPHILIA TREE,

(4) EX 5-IN MYOPORUM LAETUM TREES,  
 (9) EX 6-IN MYOPORUM LAETUM TREES,  
 (1) EX 7-IN MYOPORUM LAETUM TREE,  
 (1) EX 8-IN MYOPORUM LAETUM TREE,  
 (3) EX 9-IN MYOPORUM LAETUM TREES,  
 (1) EX 10-IN MYOPORUM LAETUM TREE,  
 (2) EX 11-IN MYOPORUM LAETUM TREES,  
 (2) EX 12-IN MYOPORUM LAETUM TREES,  
 APPROX LOCATION

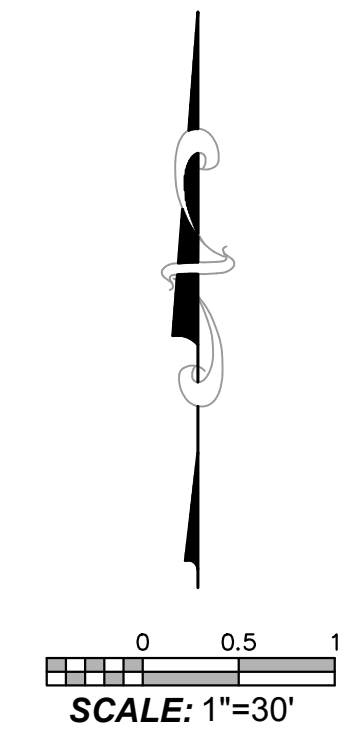
LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- PROPOSED SANDSTONE BOULDERS FOR TURTLE BASKING, TYP.
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

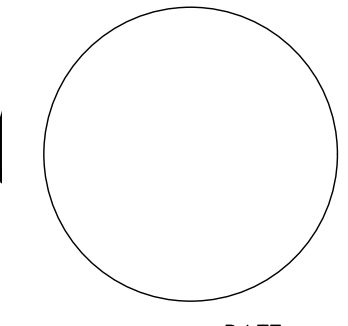
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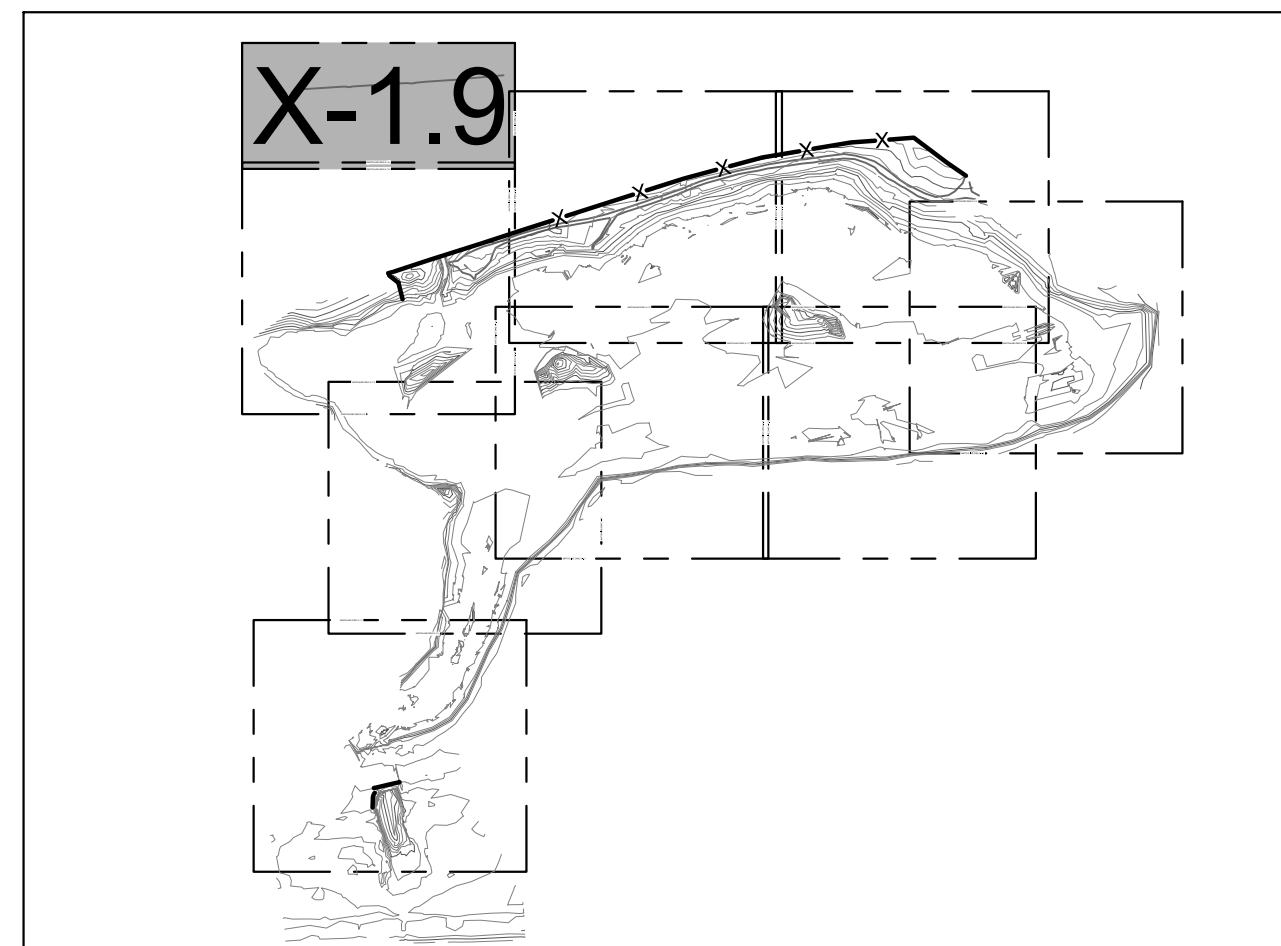
APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65%  
DRAFT

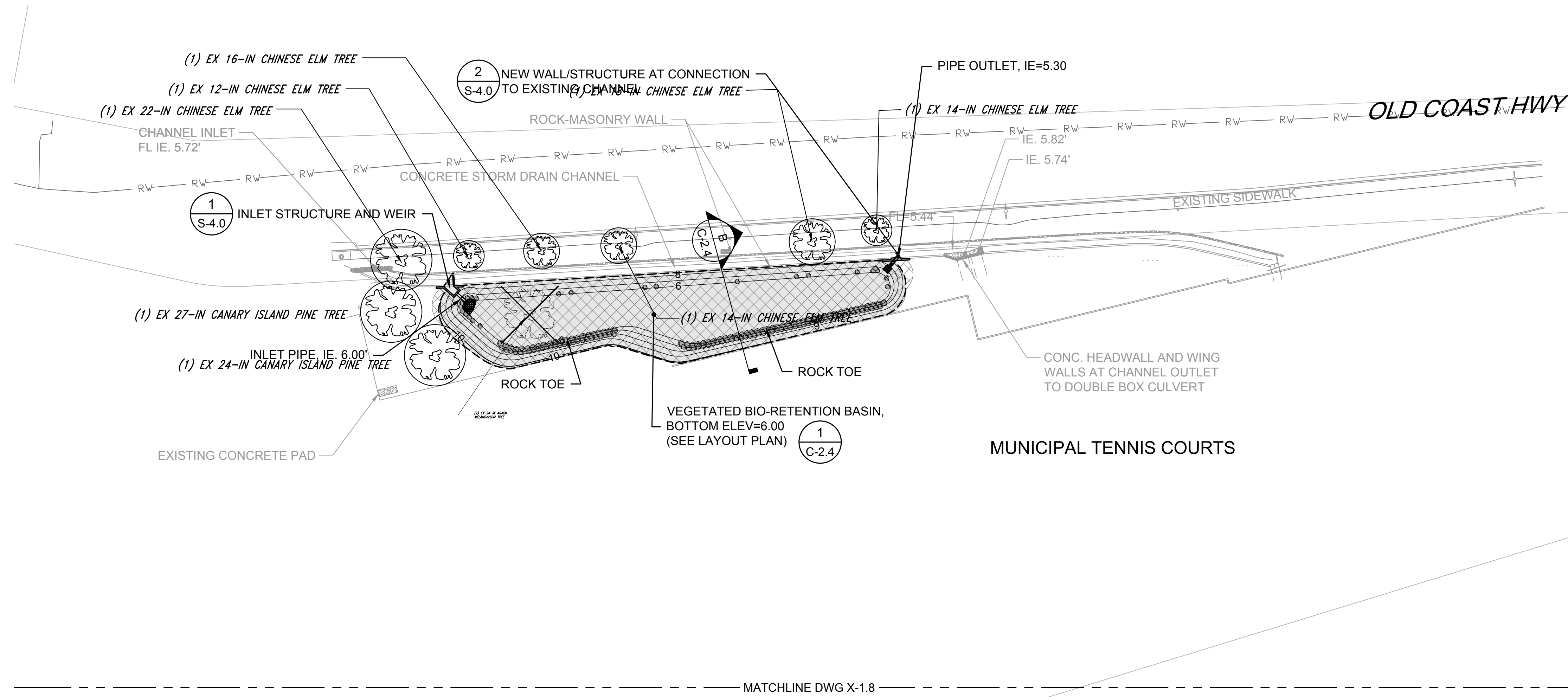
NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
 GRADING AND CONST. MAT. PLAN (9 OF 9)

PBW. NO.	-
BID NO.	-
SHT. DES.	C-1.9
DWG. NO.	-
SHT. OF	30 OF 53



SHEET INDEX



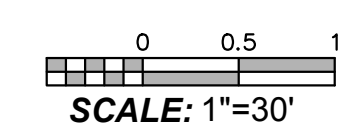
LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED BIO-RETENTION SOILS
- PROPOSED ROCK TOE BOULDER
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED

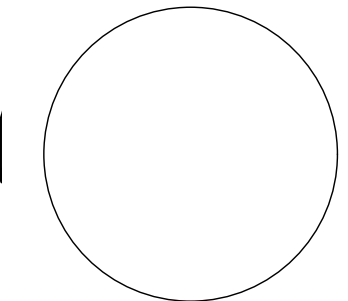
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SCALE: 1"=30'



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CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN EBP  
CHECKED MW  
65%  
DRAFT

DATE APPROVED: \_\_\_\_\_

NO.	REVISIONS

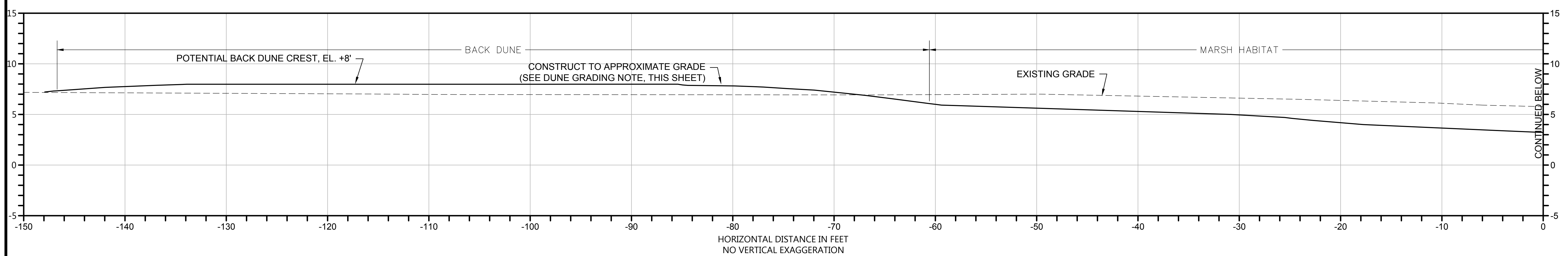
NO. \_\_\_\_\_

REVISIONS

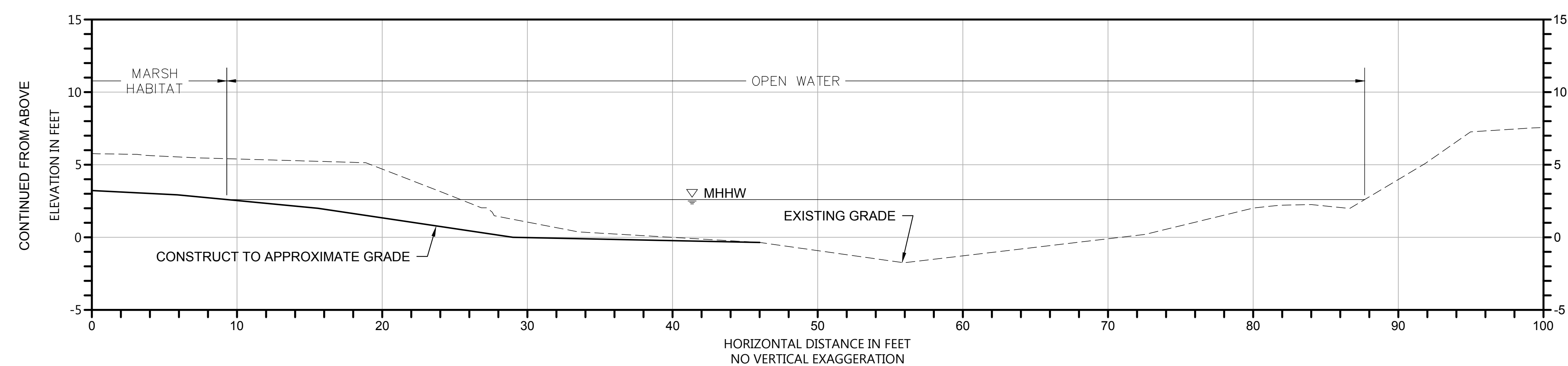
# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION GRADING AND CONSTRUCTION MATERIALS SECTIONS

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
C-2.0  
DWG. NO. \_\_\_\_\_  
SHT. 31 OF 53

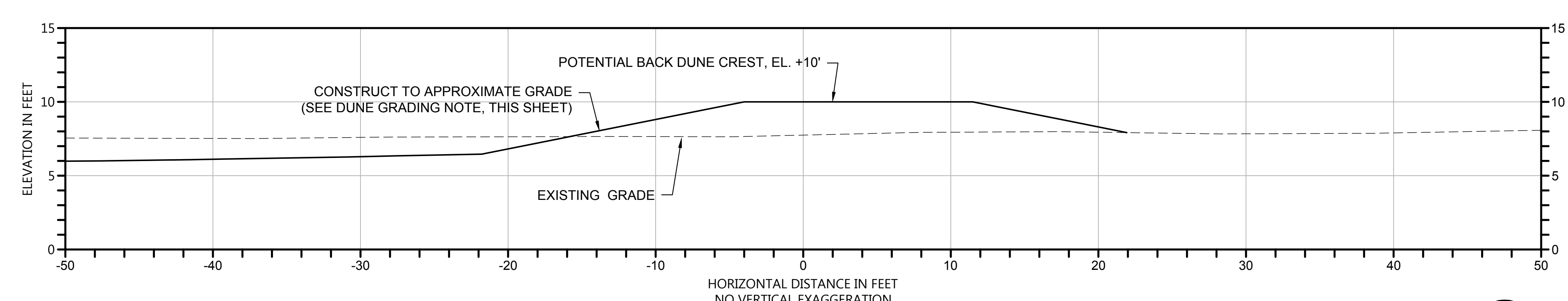
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**A CROSS-SECTION: BEACH CHANNEL AND DUNE**  
SCALE: 1" = 5'



**A CROSS-SECTION: BEACH CHANNEL AND DUNE**  
SCALE: 1" = 5'



**B CROSS-SECTION: BEACH DUNE**  
SCALE: 1" = 5'

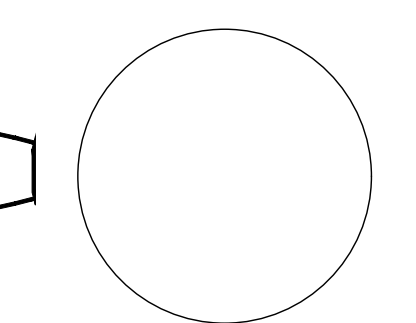
### LEGEND

- EXISTING GRADE
- CONSTRUCT TO APPROXIMATE GRADE

**DUNE GRADING NOTE:**  
EXCAVATED MATERIAL FROM BEACH LAGOON EXPANSION WILL BE USED TO CREATE NEW DUNE PLANFORMS. DUNE ELEVATIONS WILL RANGE FROM 7 TO 10 FEET NGVD29. LOCATIONS AND EXTENTS TO BE DETERMINED IN THE FIELD.



PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

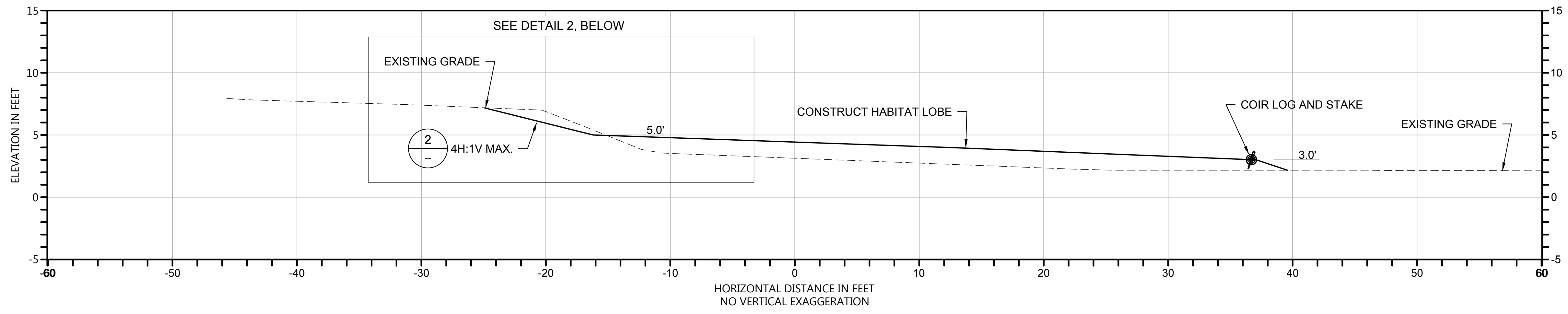
APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN EBP  
DRAWN EBP  
CHECKED MW  
65%  
DRAFT

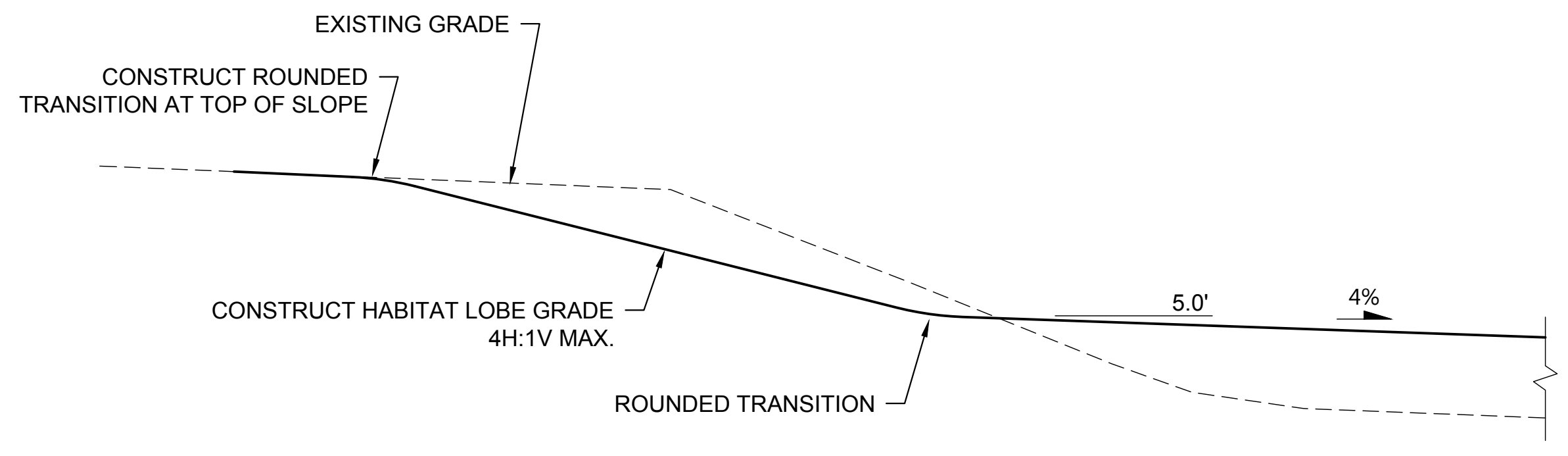
NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
MARSH HABITAT LOBE SECTION AND DETAIL

PBW. NO. -  
BID NO. - SHT. DES. -  
C-2.1  
DWG. NO.  
SHT. 32 OF 53



**A** CROSS-SECTION: HABITAT LOBE  
C-1.2-4 SCALE: 1" = 5'



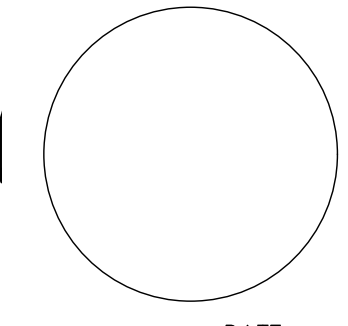
**DETAIL 2: MARSH HABITAT LOBE GRADING**  
SCALE: N.T.S.

**LEGEND**

- EXISTING GRADE
- CONSTRUCT TO APPROXIMATE GRADE



PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_





PUBLIC WORKS  
DEPARTMENT  
ENGINEERING DIVISION

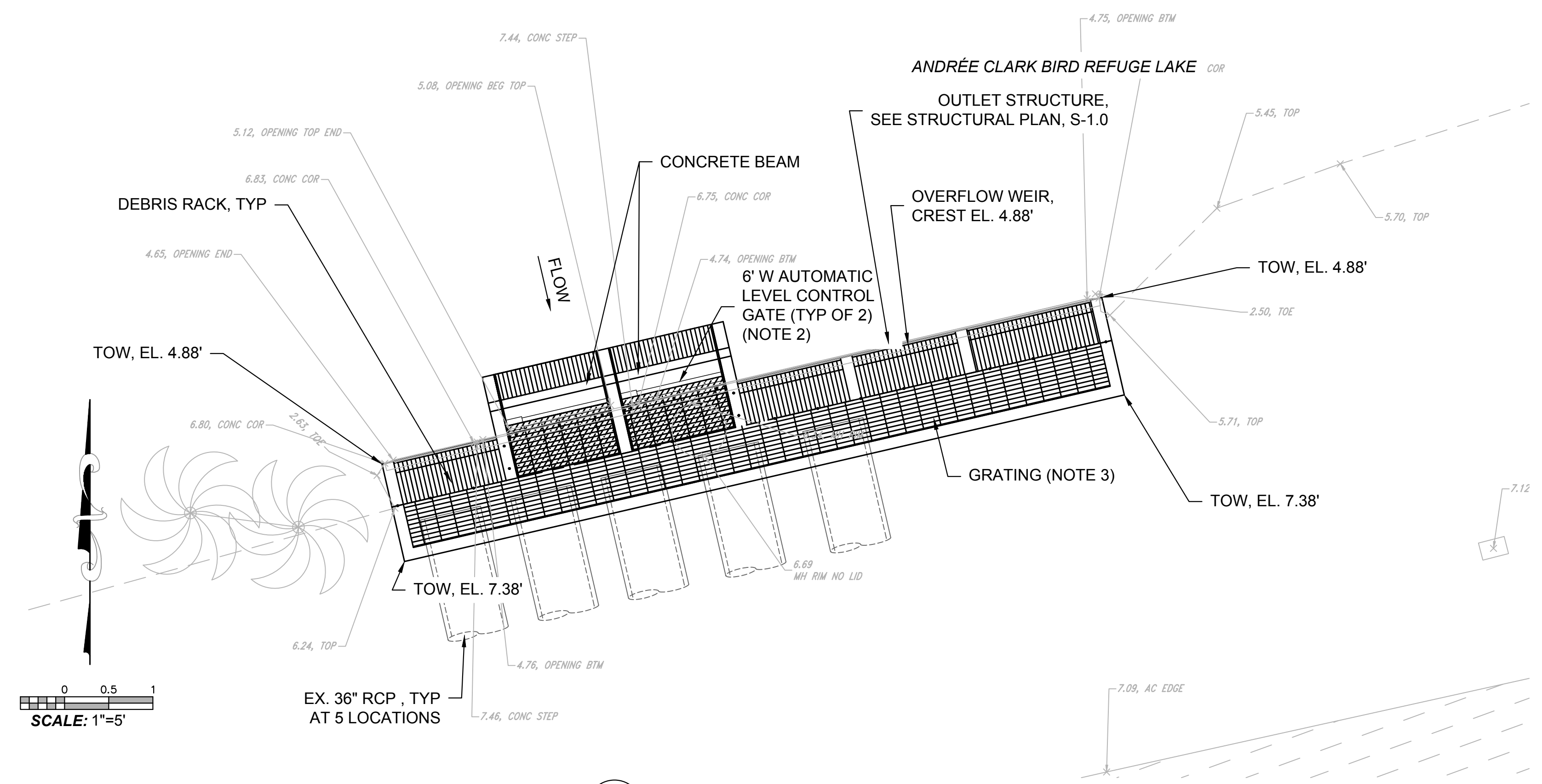
APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

DR. EBP  
DESIGN DRAWN  
CHECKED MIW  
65%  
DRAFT

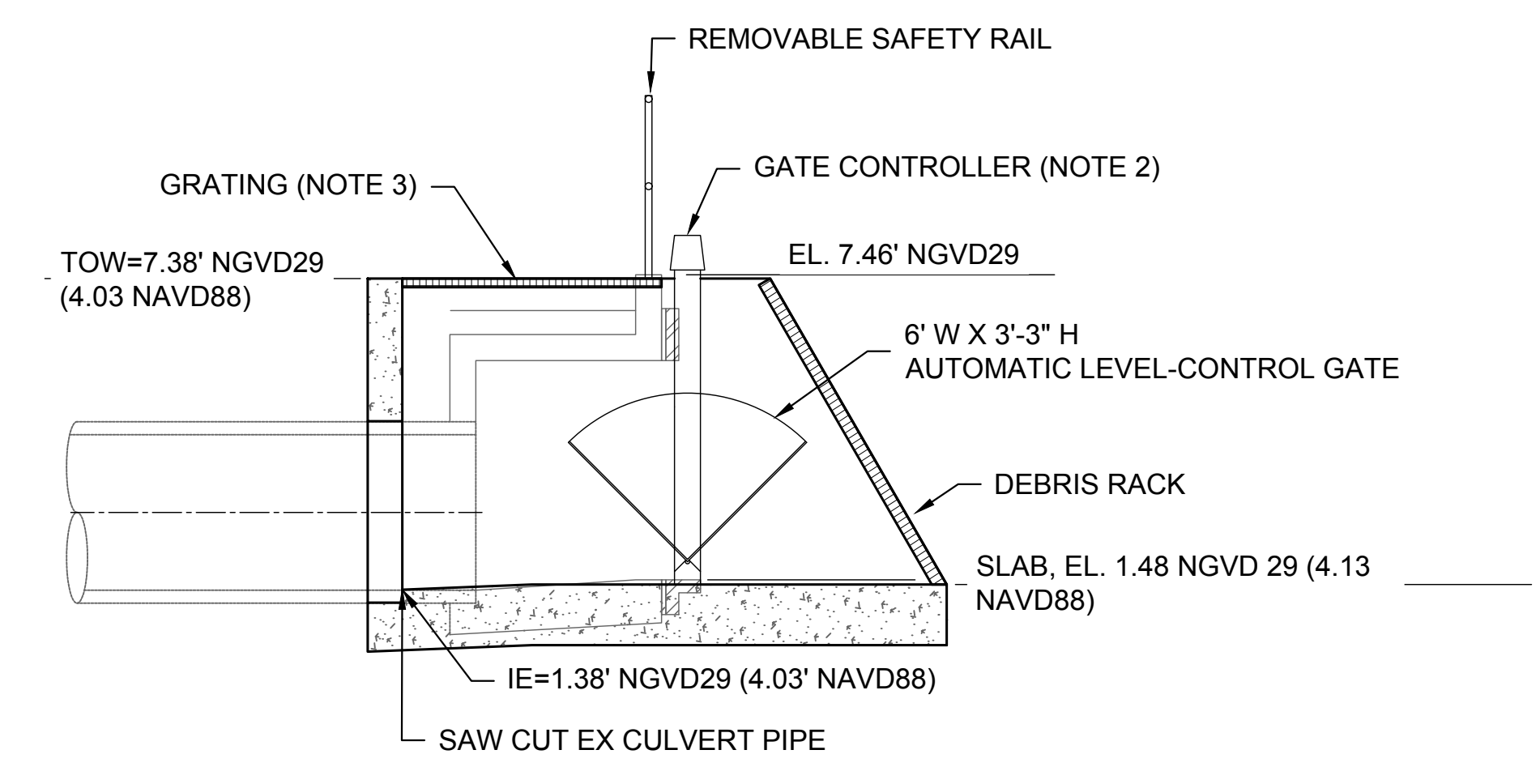
NO.	DATE	APPROVED	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION OUTLET WEIR LAYOUT AND SECTIONS

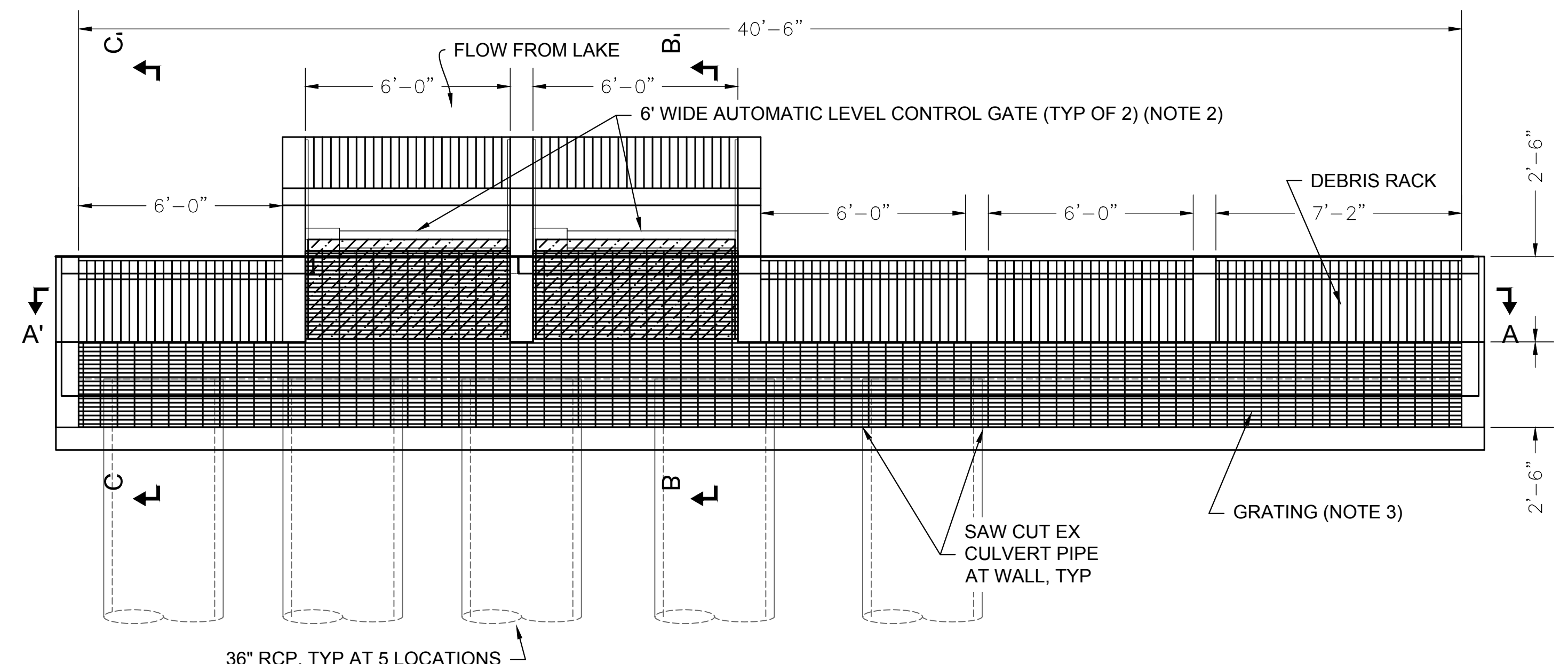
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SHT. DES. \_\_\_\_\_  
C-2.3  
DWG. NO. \_\_\_\_\_  
SHT. 33 OF 53



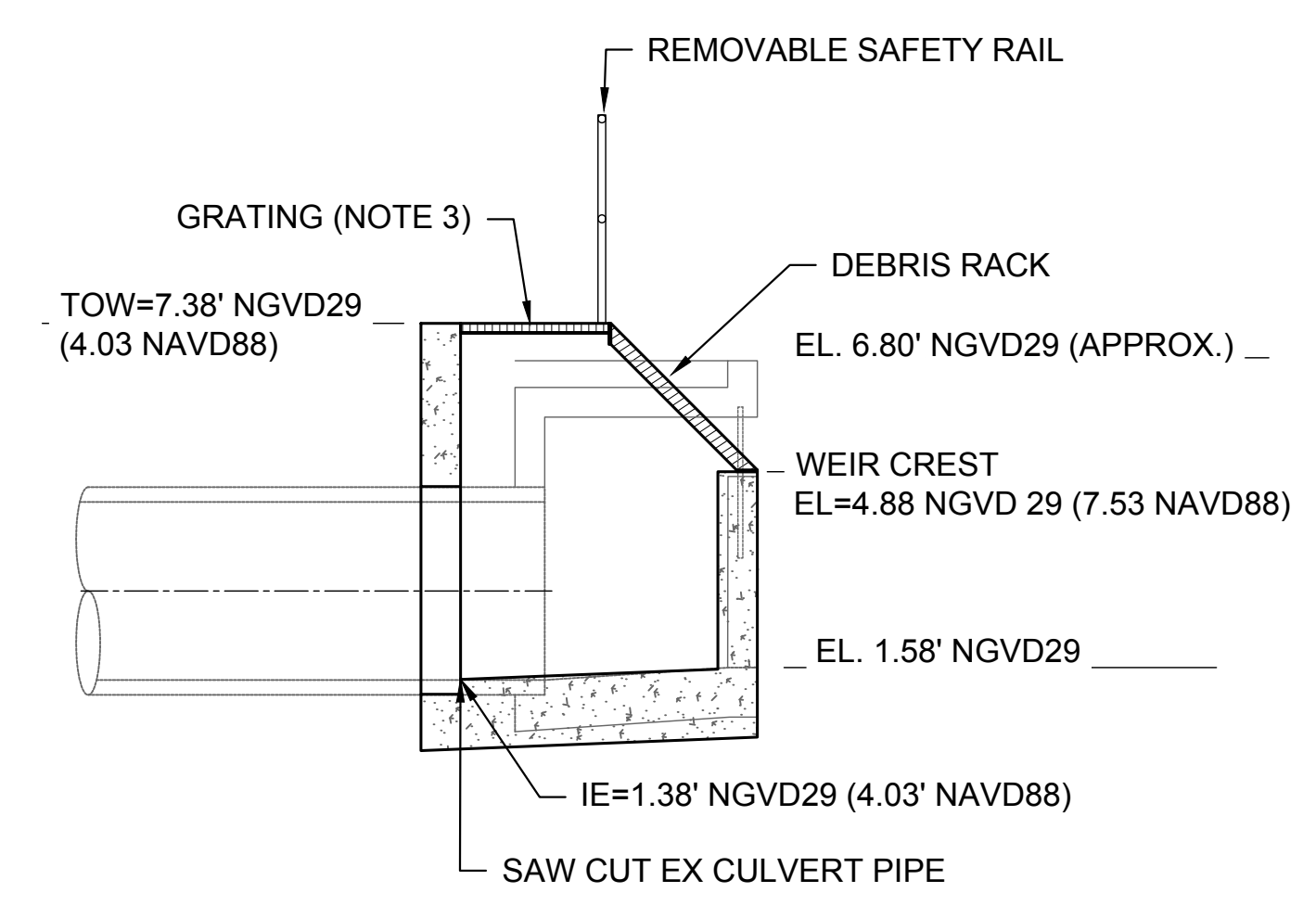
1 OUTLET WEIR PLAN  
SCALE: 1" = 5"



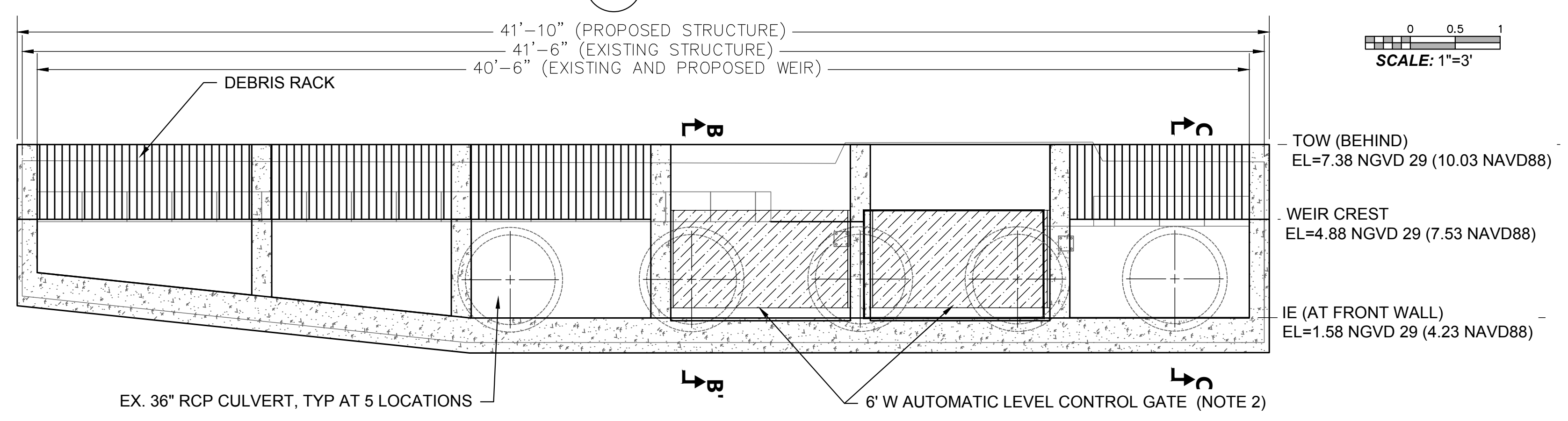
B OUTLET WEIR SECTION  
SCALE: 1" = 3"



2 OUTLET WEIR EQUIPMENT PLAN  
SCALE: 1" = 3"



C OUTLET WEIR SECTION  
SCALE: 1" = 3"



1 OUTLET WEIR SECTION  
SCALE: 1" = 3"

- OUTLET WEIR NOTES:**
1. OUTLET STRUCTURE: FOR STRUCTURAL PLAN AND SECTIONS WITH REINFORCING DETAILS, SEE DRAWINGS S-2.0 AND S-3.0.
  2. AUTOMATIC LEVEL CONTROL GATES: RUBICON FLUME GATE WITH LEVEL SENSORS, CONTROL PANEL, AND MANUAL OVERRIDE, OR APPROVED EQUAL.
  3. GRATING: GALVANIZED STEEL GRATING WITH SERRATED SURFACE.
  4. TOW = TOP OF WALL
  5. IE = INVERT ELEVATION



Know what's below.  
Call before you dig.

PROPERTY LINES ARE APPROXIMATE

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



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ENGINEERING DIVISION

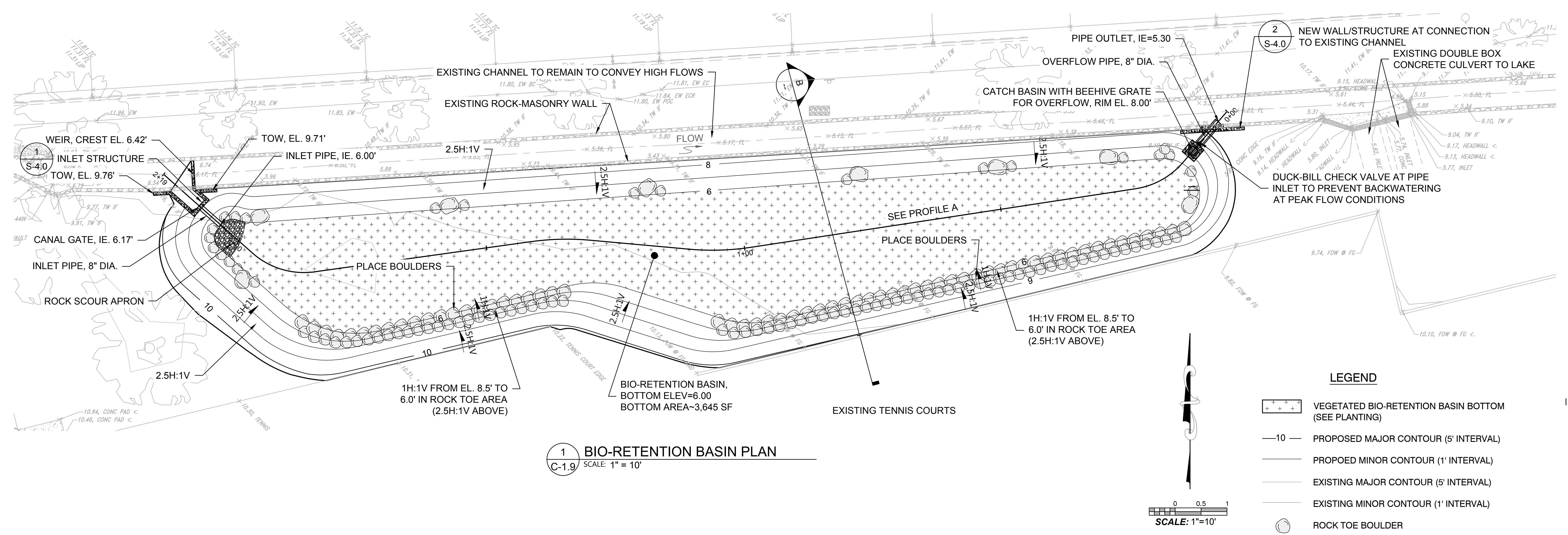
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CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN APPROVED: DR \_\_\_\_\_  
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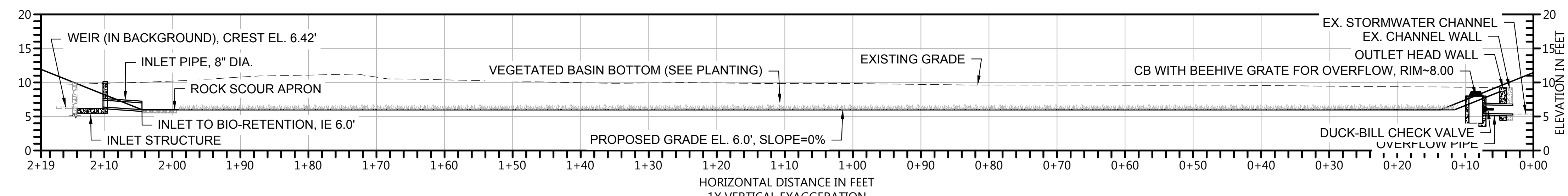
NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
**BIO-RETENTION LAYOUT AND SECTIONS**

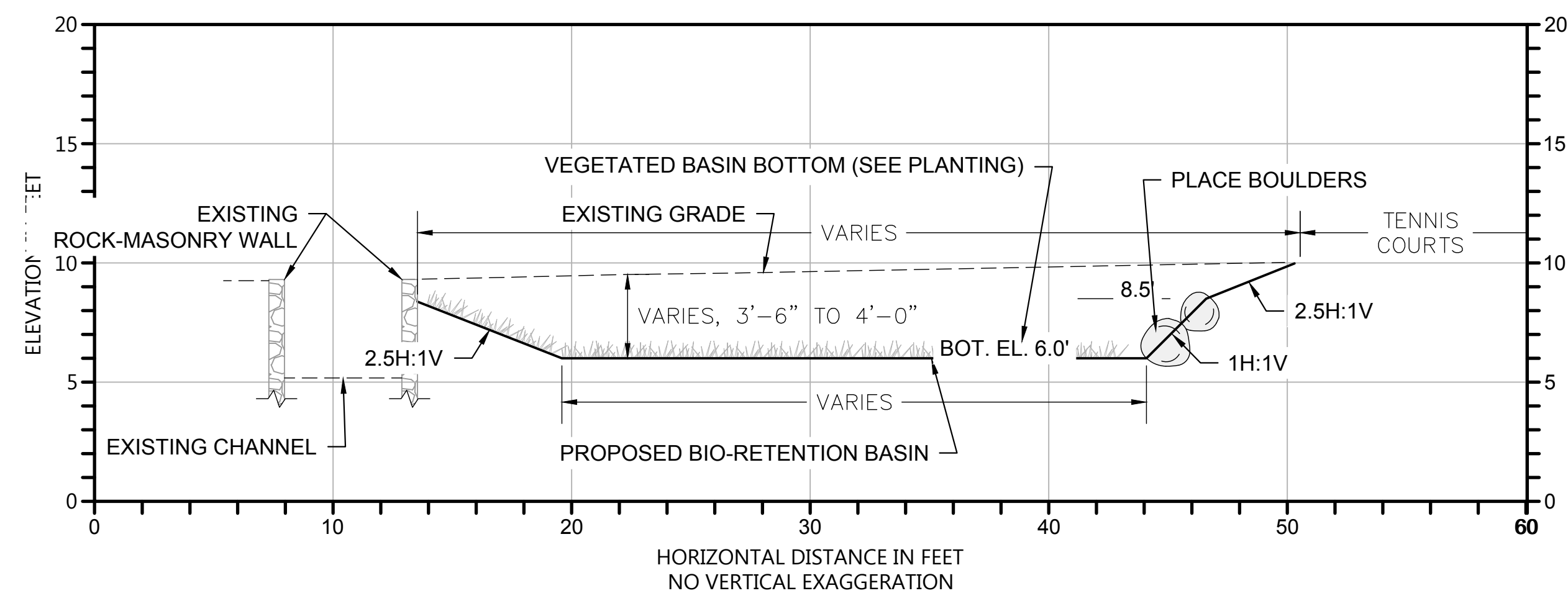
PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
C-2.4  
DWG. NO. \_\_\_\_\_  
SHT. 34 OF 53



**1 BIO-RETENTION BASIN PLAN**  
SCALE: 1" = 10'



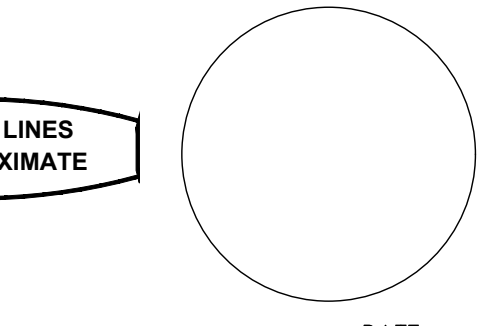
**A PROFILE: BIO-RETENTION BASIN**  
SCALE: 1" = 10'



**B CROSS-SECTION: BIO-RETENTION BASIN**  
SCALE: 1" = 5'



PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER DATE

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ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN RM  
DRAWN EPB  
CHECKED MW  
65%  
DRAFT

DATE APPROVED \_\_\_\_\_  
NO. \_\_\_\_\_

REVISIONS

NO. \_\_\_\_\_

ANDRÉE CLARK BIRD REFUGE

COASTAL RESTORATION

OUTLET STRUCT. PLAN AND SECTION

PBW. NO. \_\_\_\_\_

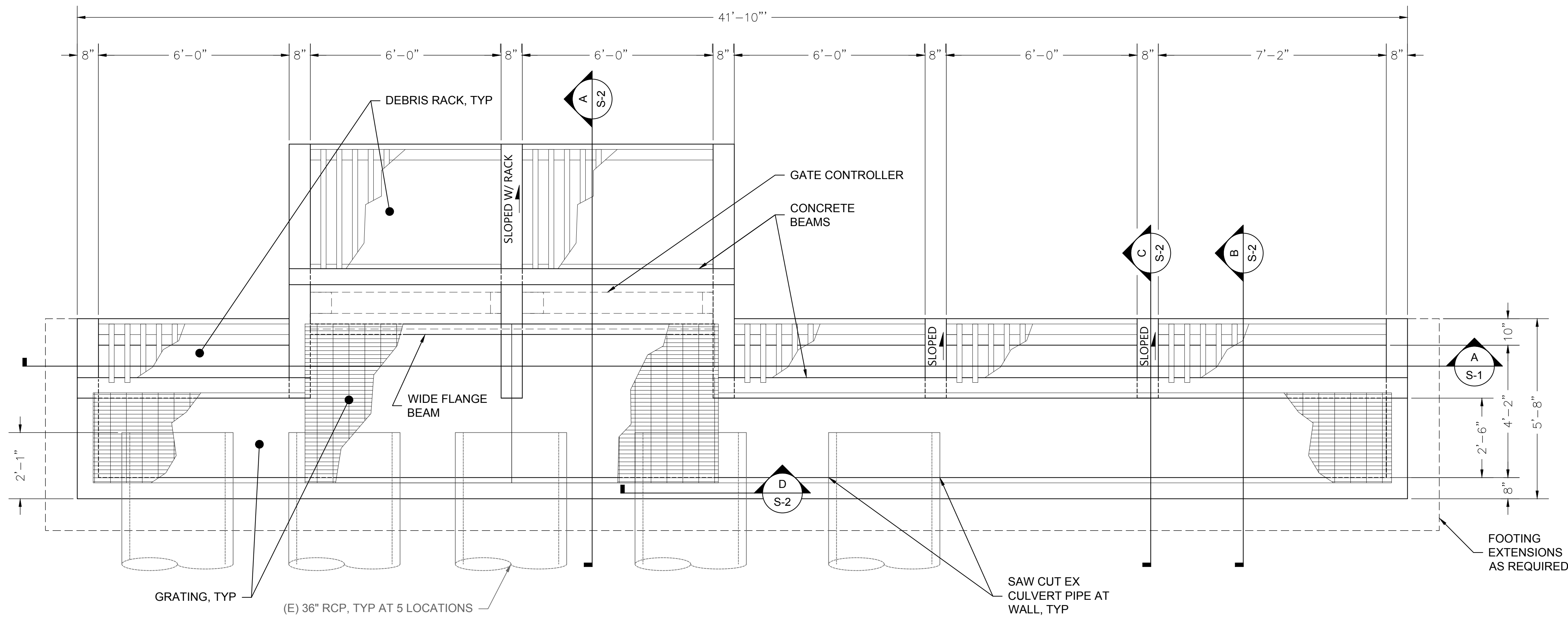
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S-1.0  
DWG. NO.

SHT. 35 OF 53

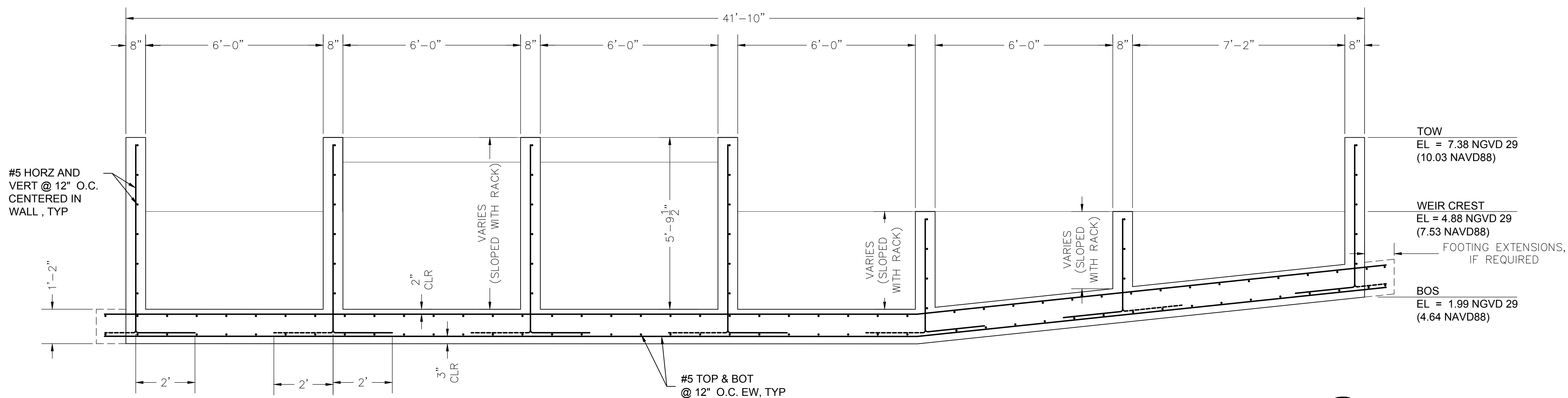
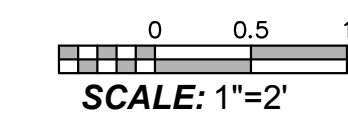
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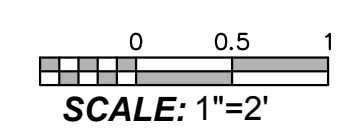


1 LAKE OUTLET STRUCTURE PLAN  
SCALE: 1/2" = 1'-0"

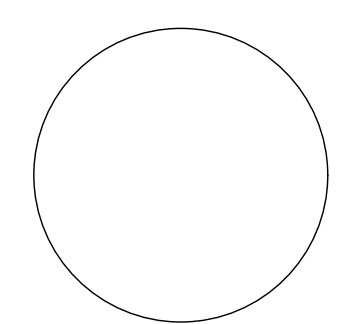
- NOTES:
1. WIER GATE AND ATTACHMENT NOT SHOWN FOR STRUCTURAL CLARITY.
  2. RAILINGS NOT SHOWN FOR CLARITY. TO BE COMPOSED OF BOTH FIXED AND REMOVABLE SEGMENTS, WHERE MAINTENANCE IS REQUIRED.



A LAKE OUTLET STRUCTURE SECTION  
SCALE: 1/2" = 1'-0"



PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



**STRUCTURAL NOTES**

1. THE REFERENCE SPECIFICATIONS FOR THIS PROJECT WILL BE THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION, REFERRED TO IN THESE NOTES AND THE CONTRACT DOCUMENTS AS "SSPWC".
2. CONCRETE ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS, IN SOUND MATERIAL, WITH NO LESS THAN THE MINIMUM EMBEDMENT SPECIFIED BY THE MANUFACTURER.
3. CONCRETE: ALL CONCRETE MIX DESIGNS SHALL BE CERTIFIED BY A 2. CONCRETE TESTING LABORATORY AND STAMPED AND SIGNED BY A PROFESSIONAL CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
  1.  $f_c = 5000$  psi @ 28 DAYS, CONFORMING TO ASTM C94
  2. WATER-CEMENT RATIO = 0.42 MIN.
  3. PRIOR TO PLACEMENT OF CONCRETE, ENGINEER SHALL INSPECT EXCAVATION AND PLACEMENT OF REBAR.
4. REINFORCING BARS:
  - A. ASTM A615, GRADE 60
  - B. ALL BARS TO BE EPOXY COATED PER ASTM A934 AND A775.
5. STEEL:
  - A. STRUCTURAL STEEL SHALL CONFORM TO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BRIDGES AND BUILDINGS, ASTM A36, UNLESS NOTED OTHERWISE.
  - B. FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST AISC SPECIFICATIONS.
  - C. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OR ERECTION OF STRUCTURAL STEEL OR METAL FABRICATIONS.
  - D. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL HAVE HOT-DIPPED GALVANIZED FINISH, UNLESS NOTED OTHERWISE.
  - E. ALL EXPANSION ANCHORS USED FOR THIS PROJECT SHALL BE STAINLESS STEEL TYPE 316.
6. ALUMINUM:
  - A. ALUMINUM SHAPES SHALL BE EXTRUDED FROM 6061-T6 OR 6063-T6 UNLESS OTHERWISE NOTED. CLEAR MARINE ANODIZED.
  - B. ALL FASTENERS SHALL BE STAINLESS STEEL.
7. WELDING:
  - A. WELD LENGTHS SHOWN ARE EFFECTIVE LENGTH PER CODE. WHERE LENGTHS ARE NOT SHOWN, THE WELD SHALL BE FULL LENGTH OF JOINT. IN ADDITION TO INDICATED STRUCTURAL WELDS, ALL CONNECTED PARTS SHALL BE SEAL-WELDED, ALL-AROUND, A MINIMUM OF 1/8" FILLET WELDS.
  - B. ALL WELDING SHALL BE AS PER LATEST EDITION OF AWS D1.1.
  - C. ALL WELDERS SHALL BE CERTIFIED TO THE SATISFACTION OF THE GOVERNING JURISDICTION(S).
  - D. ALL WELDING REQUIREMENTS SHOWN OR INDICATED ON THE DRAWINGS MAY BE FIELD OR SHOP WELDED AS REQUIRED FOR EFFICIENT ERECTION BY CERTIFIED WELDERS, SUBJECT TO THE APPROVAL OF THE ENGINEER.



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

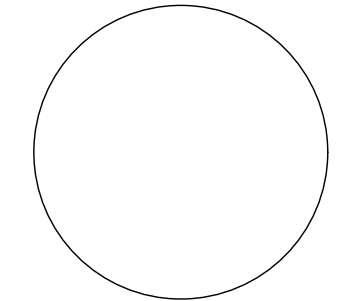
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DESIGN DRAWN EP  
CHECKED MW  
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NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
OUTLET STRUCT. GENERAL NOTES



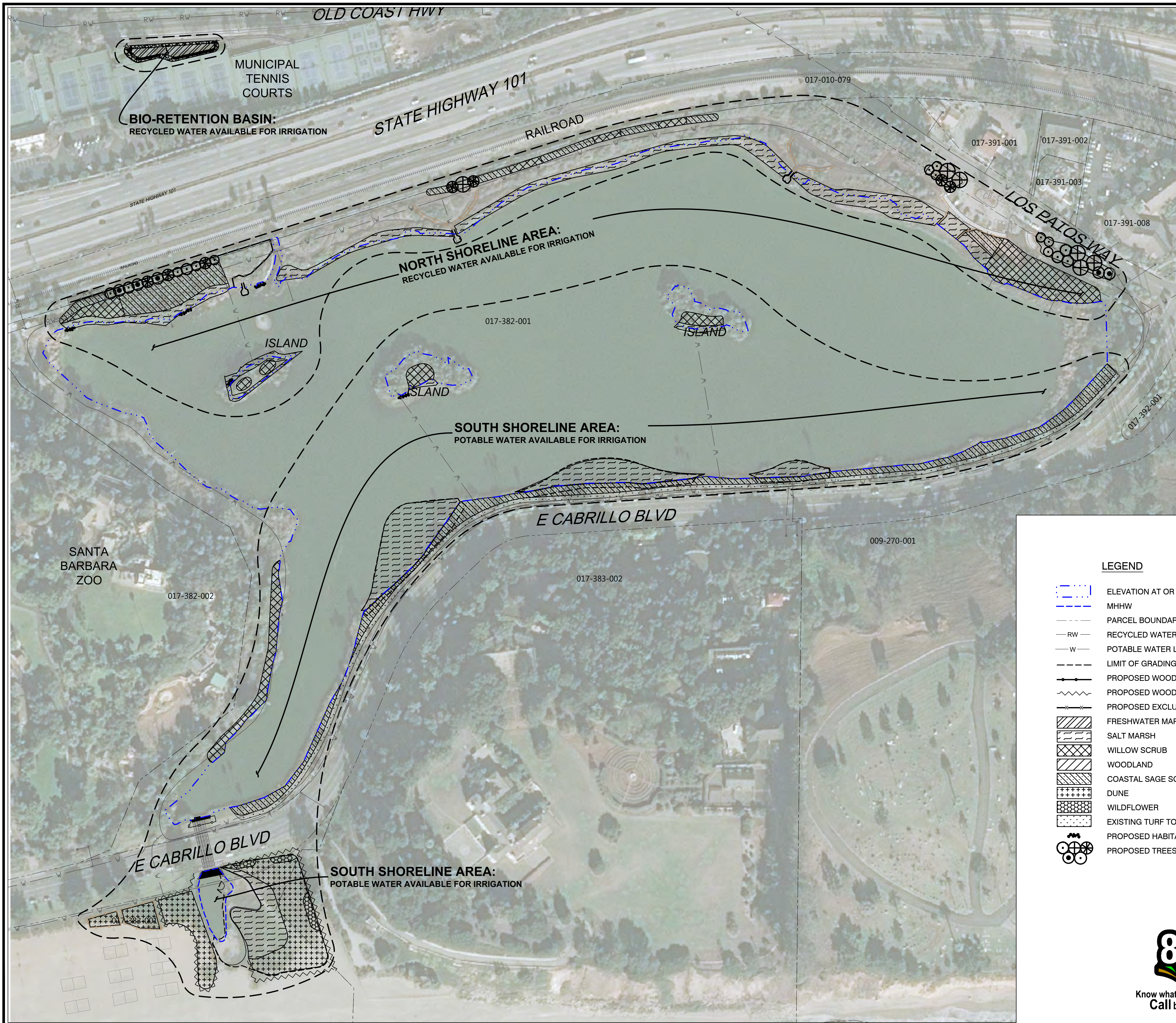
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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PBW. NO. -  
SHT. DES. -  
S-3.0  
DWG. NO.  
SHT. 37 OF 53





- NOTES:**
1. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET
  2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
  3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.
  4. CS-1.0 PROVIDES A SITEWIDE OVERVIEW OF PROPOSED CONDITIONS. REFER TO GRADING AND CONSTRUCTION MATERIALS PLANS AND PLANTING PLANS FOR PROPOSED PLAN DETAILS.



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

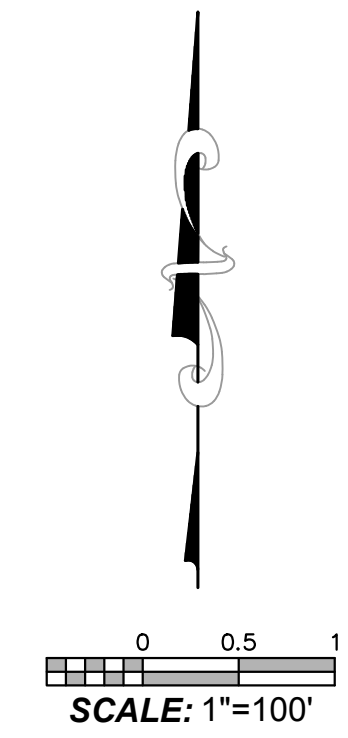
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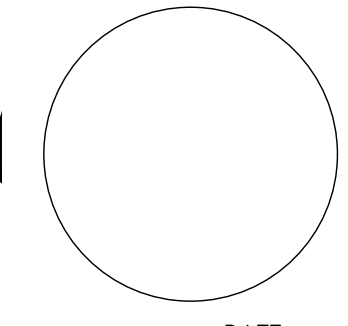
NO.	DATE	APPROVED	REVISIONS

**LEGEND**

- ELEVATION AT OR BELOW PROPOSED WEIR CREST ELEVATION
- MHHW
- PARCEL BOUNDARY
- RECYCLED WATER LINE
- POTABLE WATER LINE
- LIMIT OF GRADING
- PROPOSED WOODEN POSTS AND ROPE BARRIER
- PROPOSED WOOD LATH SAND FENCE
- PROPOSED EXCLUSIONARY FENCE
- FRESHWATER MARSH
- SALT MARSH
- WILLOW SCRUB
- WOODLAND
- COASTAL SAGE SCRUB
- DUNE
- WILDFLOWER
- EXISTING TURF TO REMAIN
- PROPOSED HABITAT BOULDERS
- PROPOSED TREES



PROPERTY LINES ARE APPROXIMATE



ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION  
IRRIGATION AREAS**

PBW. NO. \_\_\_\_\_  
BID. NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
I-1.0  
DWG. NO. \_\_\_\_\_  
SHT. 39 OF 53



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

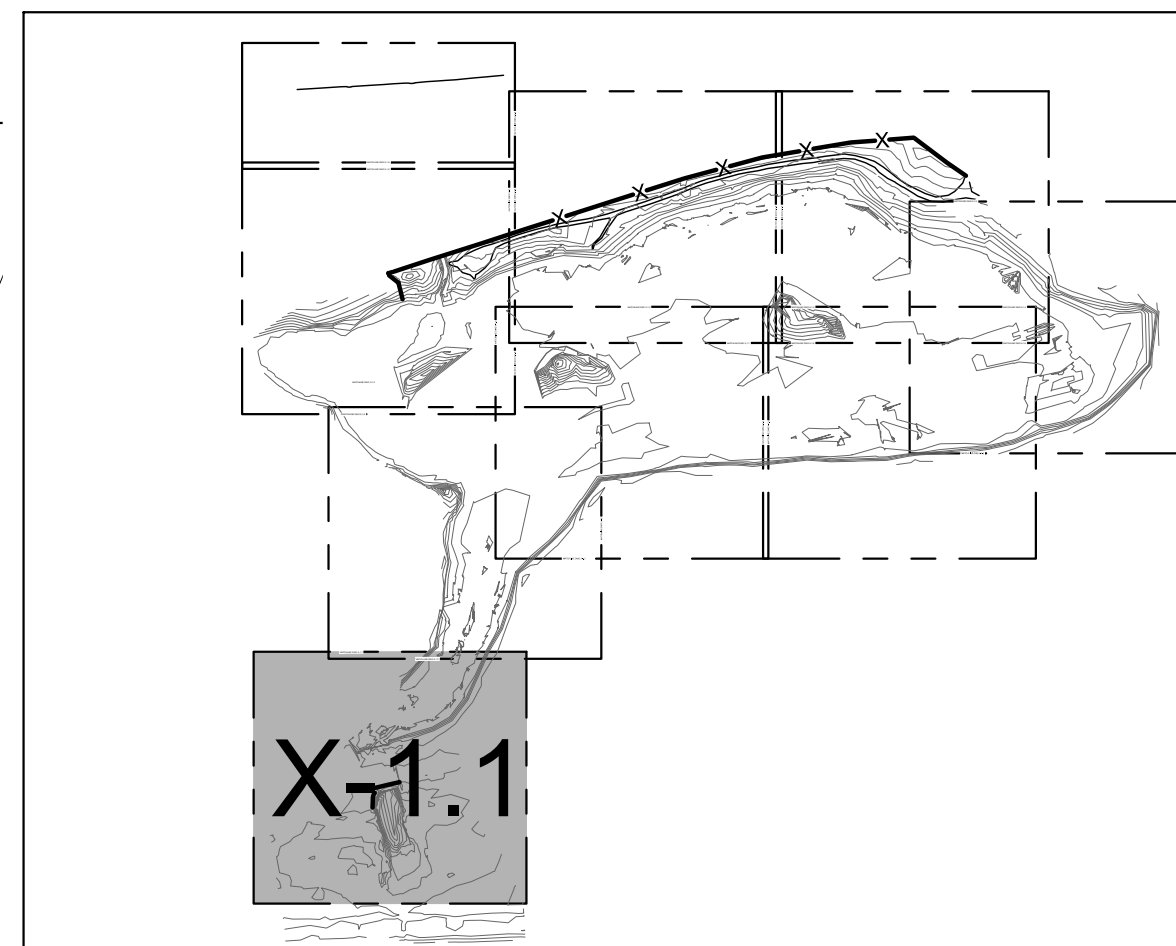
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CITY ENGINEER ORIGINAL SIGNED DATE

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DESIGN DRAWN  
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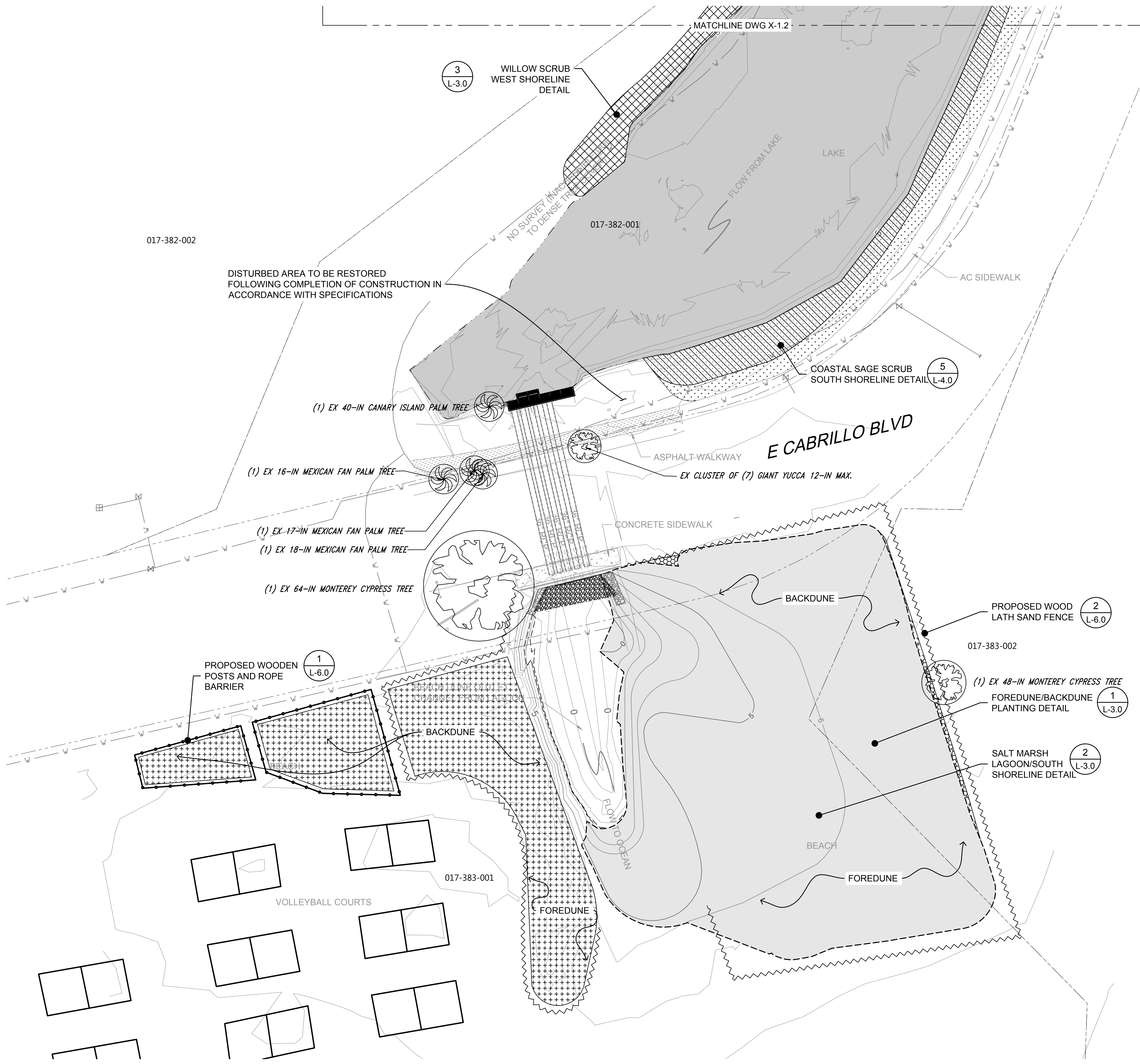
NO.	DATE	APPROVED	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION PLANTING PLAN (1 OF 9)

PBW. NO. \_\_\_\_\_  
BID. NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
L-1.1  
DWG. NO. \_\_\_\_\_  
SHT. 40 OF 53



SHEET INDEX



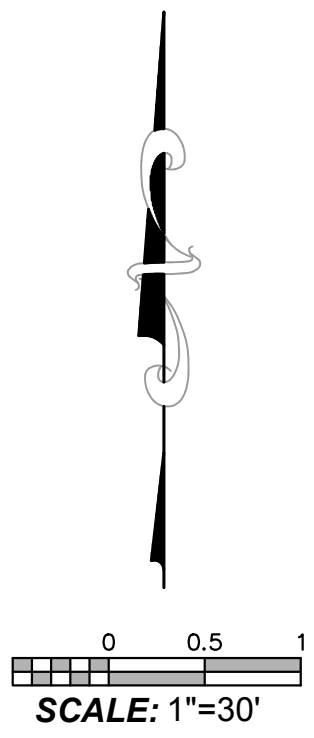
### LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV MHHW
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED WOODEN POSTS AND ROPE BARRIER
- PROPOSED WOOD LATH SAND FENCE
- SALT MARSH
- COASTAL SAGE SCRUB
- WILLOW SCRUB
- DUNE
- WILDFLOWER
- EXISTING TURF TO REMAIN
- TREE TO BE PROTECTED IN PLACE

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

### NOTES:

1. REFER TO L-2 FOR PLANTING SCHEDULE.
2. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET.
3. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
4. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.



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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_





PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

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NO.	DATE	APPROVED	REVISIONS

NO. \_\_\_\_\_

DATE \_\_\_\_\_

APPROVED \_\_\_\_\_

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REVISIONS

NO. \_\_\_\_\_

DATE \_\_\_\_\_

APPROVED \_\_\_\_\_

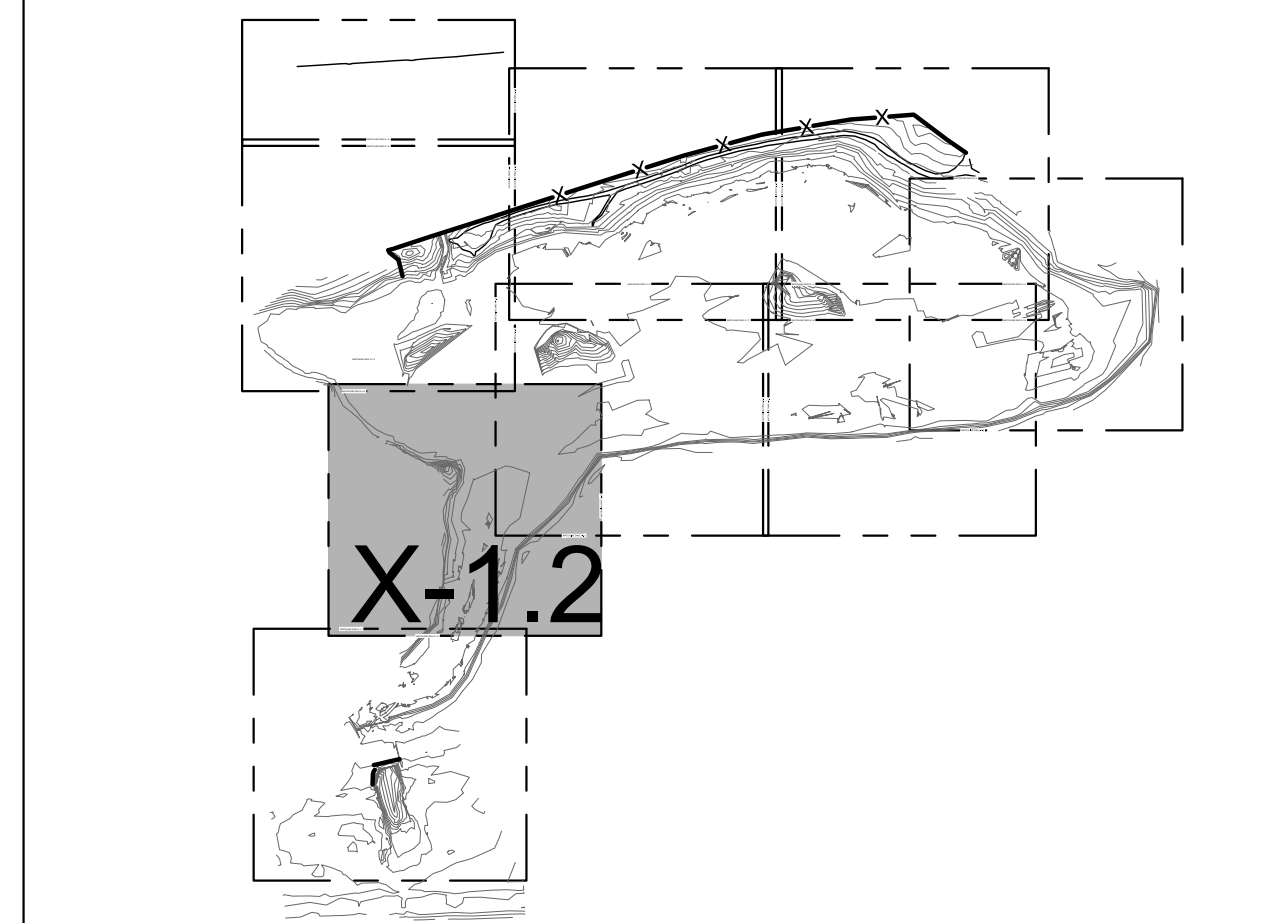
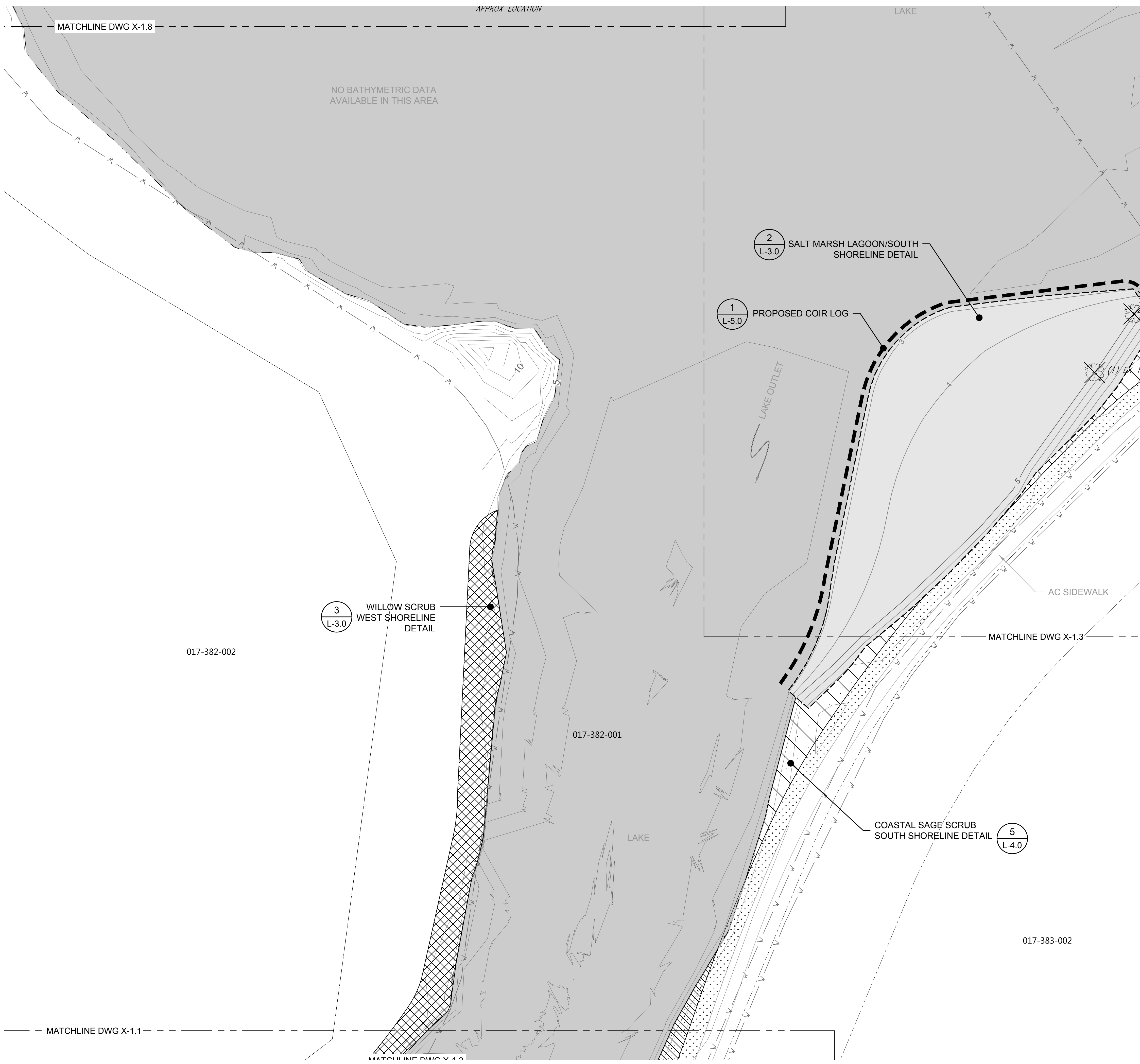
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REVISIONS



SHEET INDEX

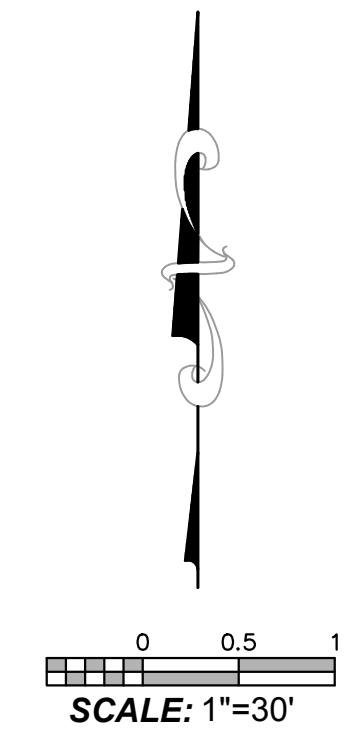
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- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED COIR LOG
- PROPOSED TIDEWATER GOBY REFUGIA
- SALT MARSH
- COASTAL SAGE SCRUB
- WILLOW SCRUB
- EXISTING TURF TO REMAIN
- TREE TO BE PROTECTED IN PLACE

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

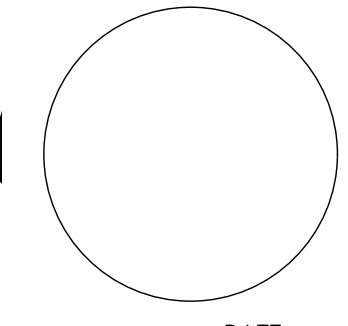
NOTES:

1. REFER TO L-2 FOR PLANTING SCHEDULE.
2. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET.
3. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
4. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.



Know what's below.  
Call before you dig.

PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

ANDRÉE CLARK BIRD REFUGE  
COASTAL RESTORATION  
PLANTING PLAN (2 OF 9)

PBW. NO. \_\_\_\_\_

BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_

L-1.2  
DWG. NO.

SHT. 41 OF 53

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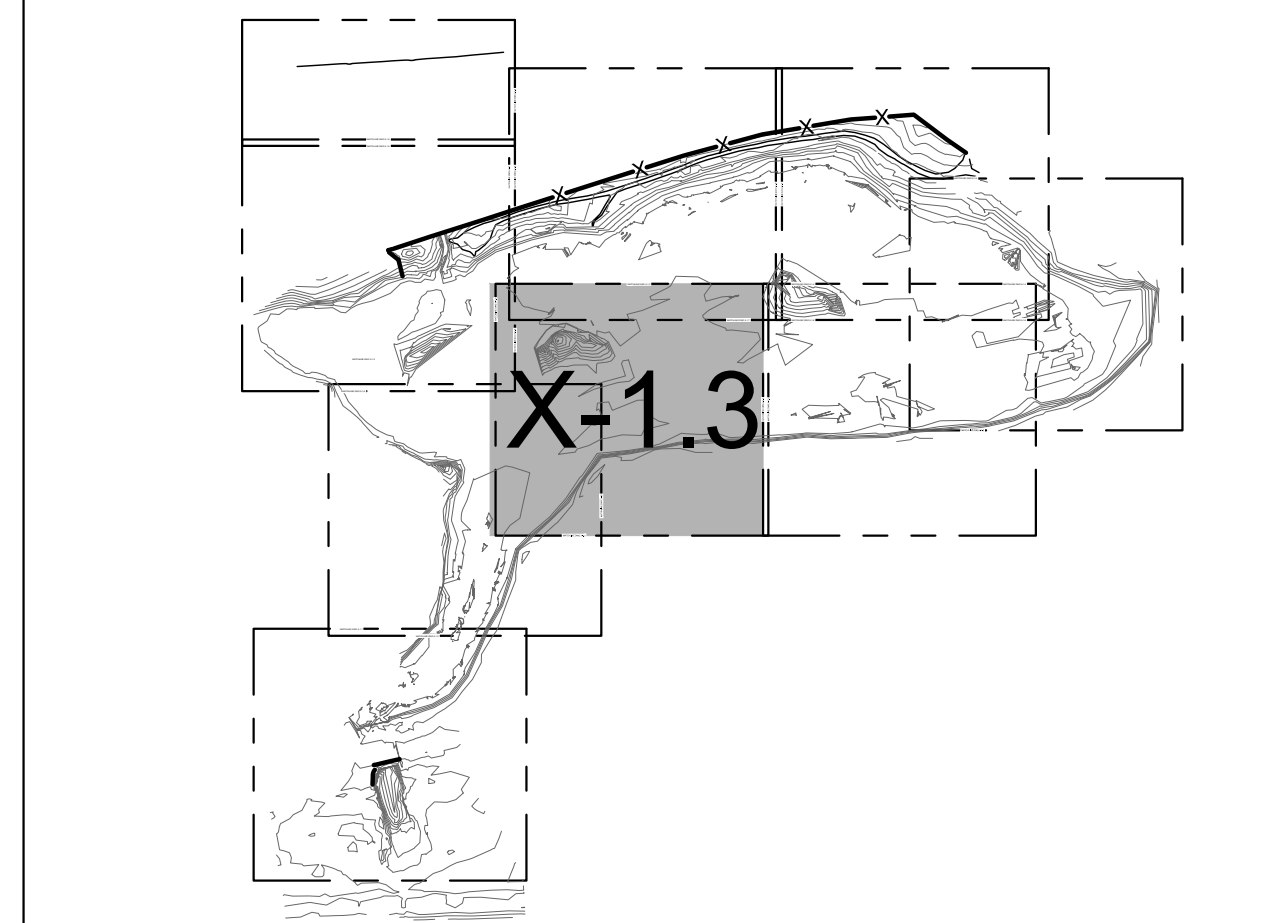
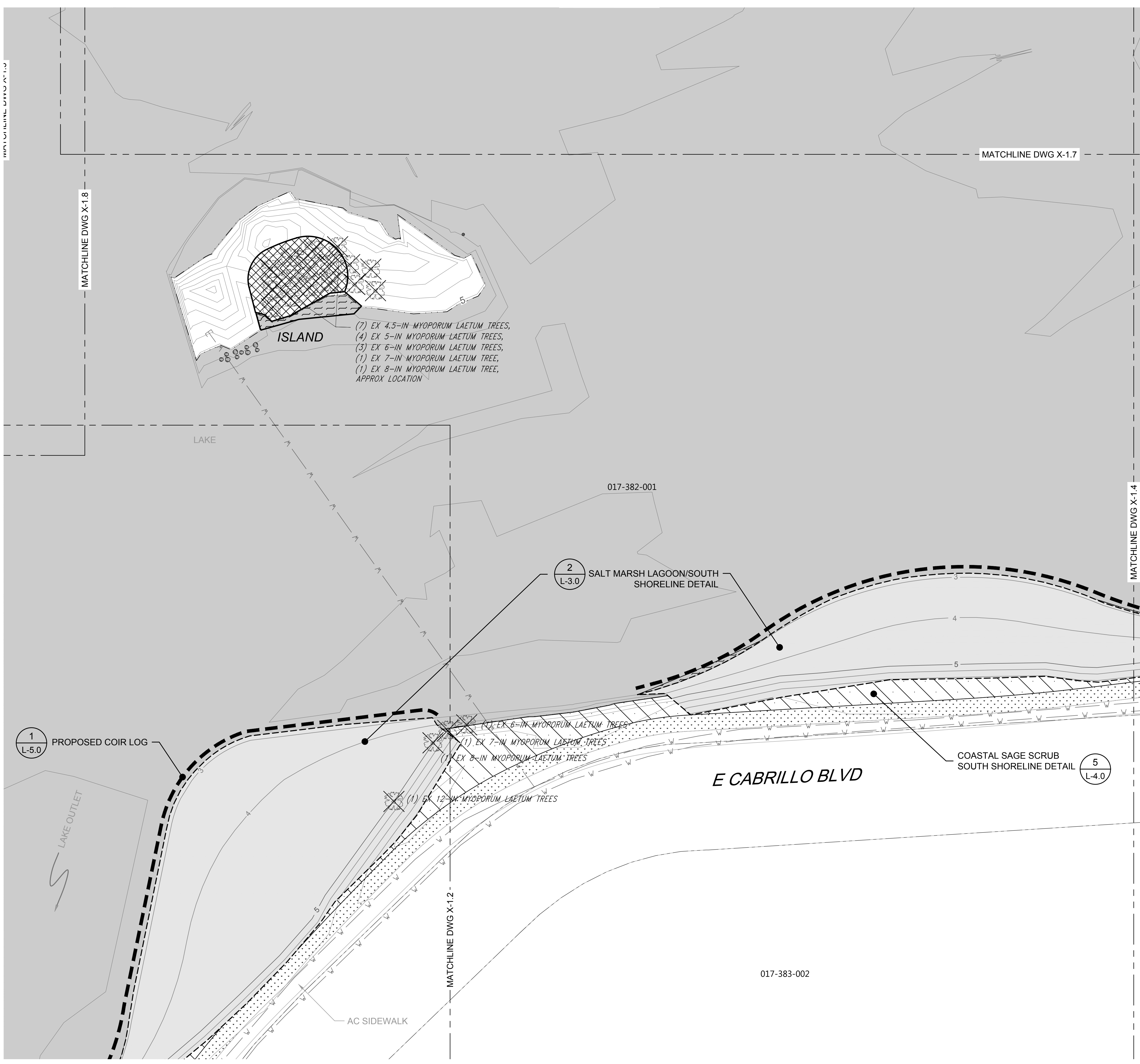
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CITY ENGINEER ORIGINAL SIGNED DATE

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NO.	DATE	APPROVED	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION PLANTING PLAN (3 OF 9)

PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
L-1.3  
DWG. NO. \_\_\_\_\_  
SHT. 42 OF 53



SHEET INDEX

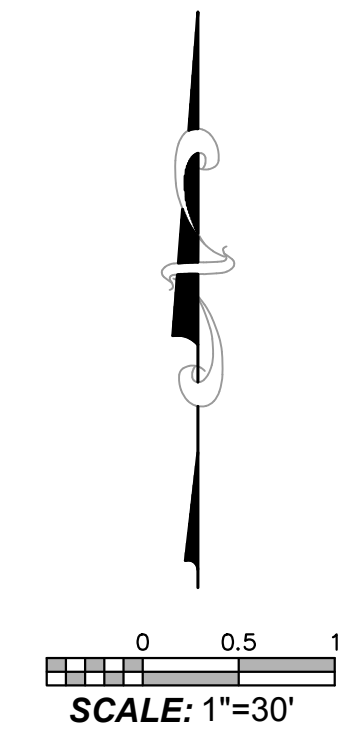
### LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- LIMIT OF GRADING
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED COIR LOG
- SALT MARSH
- COASTAL SAGE SCRUB
- WILLOW SCRUB
- EXISTING TURF TO REMAIN
- PROPOSED SANDSTONE BOULDERS FOR TURTLE BASKING, TYP.
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

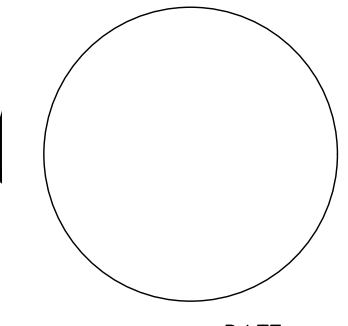
### NOTES:

1. REFER TO L-2 FOR PLANTING SCHEDULE.
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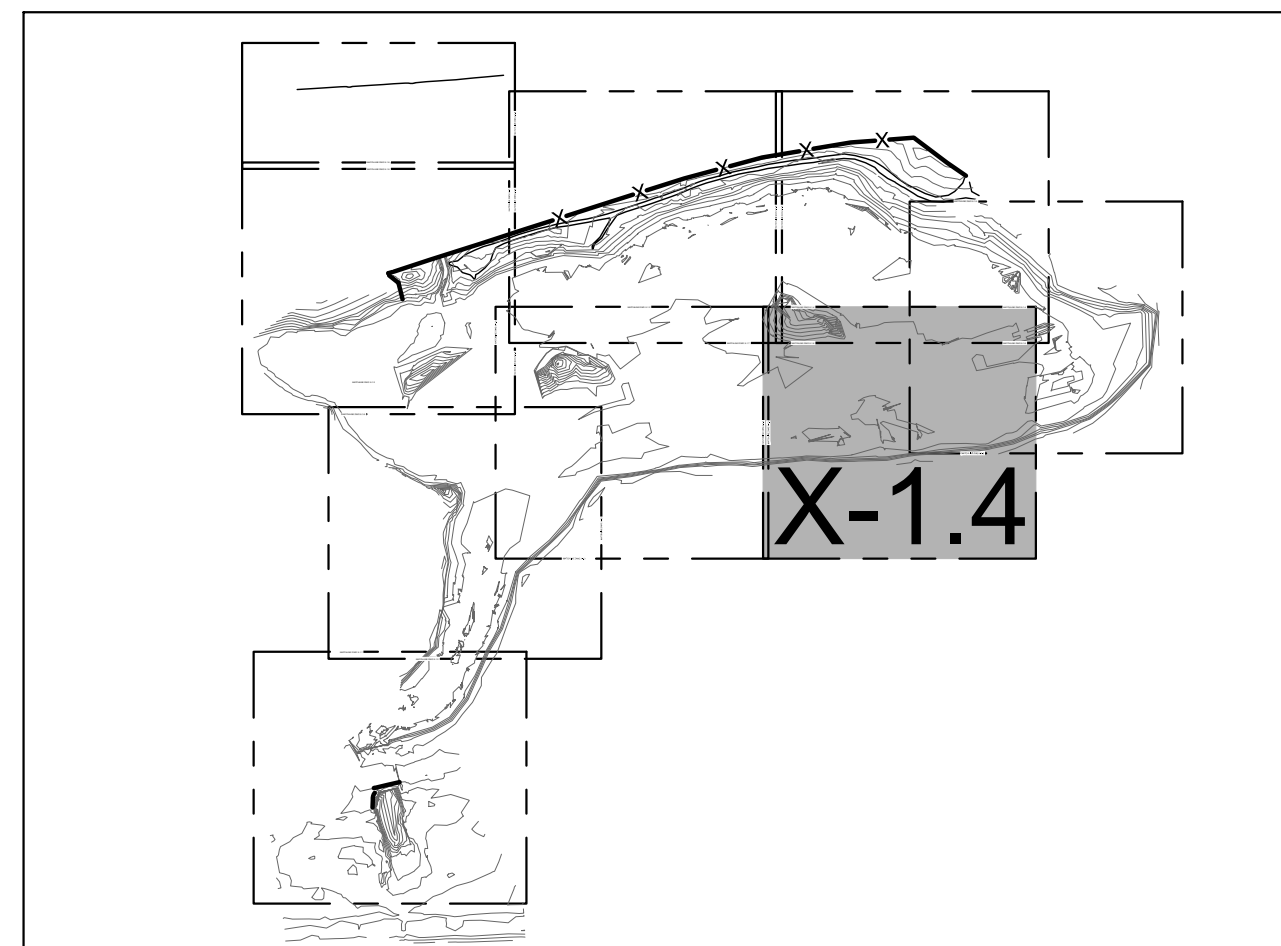
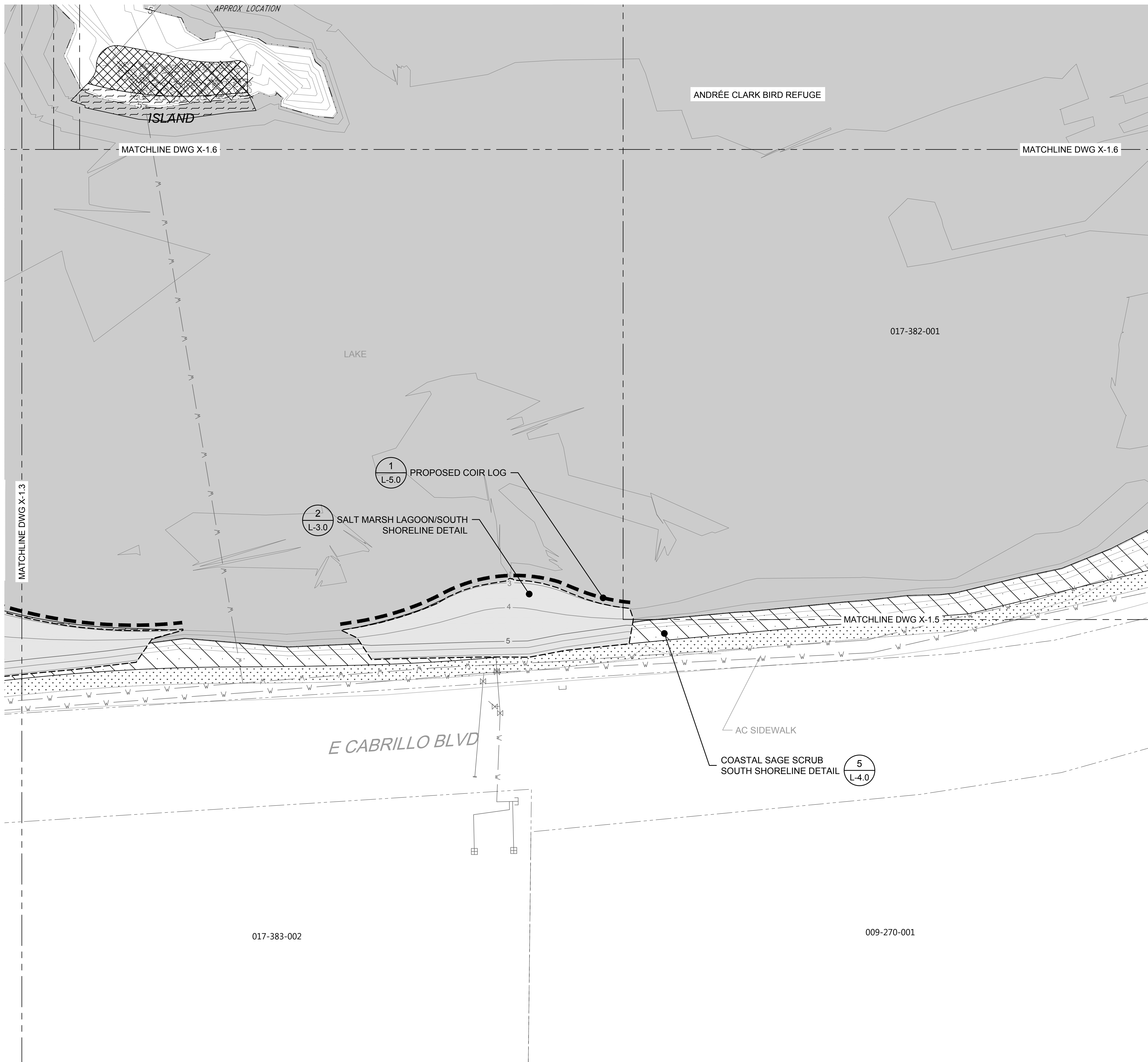


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PROPERTY LINES ARE APPROXIMATE



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



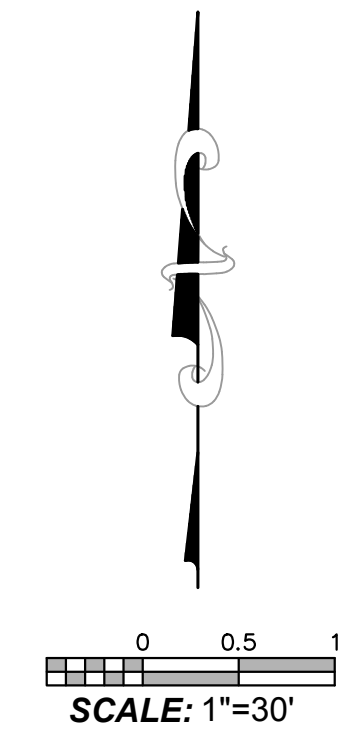
SHEET INDEX

**LEGEND**

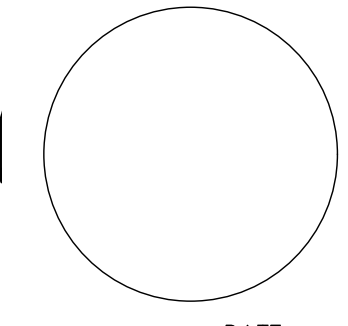
	EXISTING CONTOURS (1' & 5' INTERVALS)
	ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
	PARCEL BOUNDARY
	LIMIT OF GRADING
	PROPOSED CONTOURS (1' & 5' INTERVALS)
	PROPOSED COIR LOG
	SALT MARSH
	COASTAL SAGE SCRUB
	DUNE
	EXISTING TURF TO REMAIN
	TREE TO BE PROTECTED IN PLACE
	TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

- NOTES:**
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  - HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET.
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  - REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.



PROPERTY LINES ARE APPROXIMATE



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APPROVED:	DATE
CITY ENGINEER	ORIGINAL SIGNED DATE

CW EBP  
DESIGN DRAWN CHECKED MW  
65 %  
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NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PLANTING PLAN (4 OF 9)

PBW. NO.	
BID NO.	
SHT. DES.	L-1.4
DWG. NO.	
SHT. OF	43 OF 53

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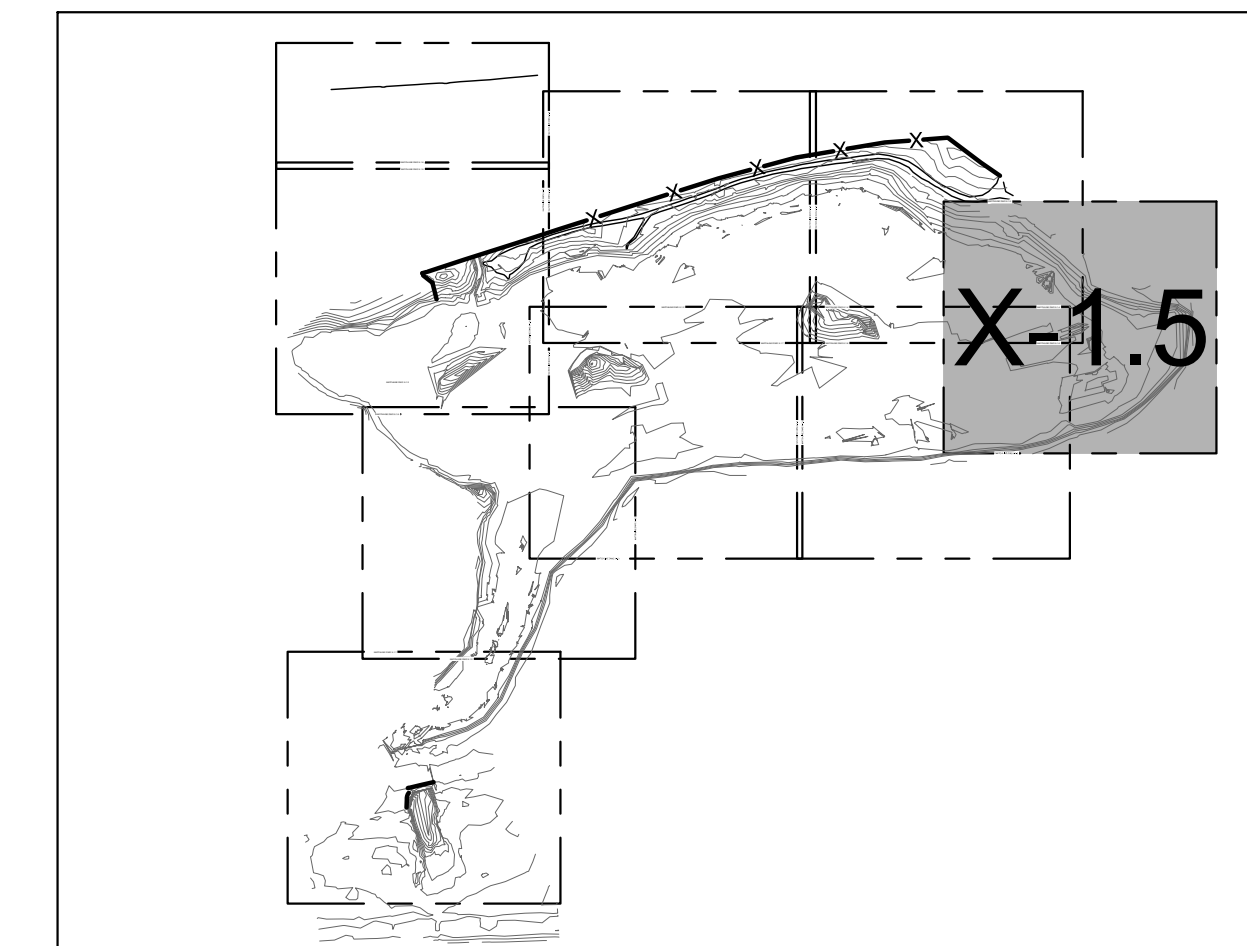
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CITY ENGINEER ORIGINAL SIGNED DATE

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NO.	DATE	APPROVED	REVISIONS

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION PLANTING PLAN (5 OF 9)

PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
L-1.5  
DWG. NO. \_\_\_\_\_  
SHT. 44 OF 53



SHEET INDEX

### LEGEND

- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED WOODEN POSTS AND ROPE BARRIER
- SALT MARSH
- WILLOW SCRUB
- WOODLAND
- COASTAL SAGE SCRUB
- EXISTING TURF TO REMAIN

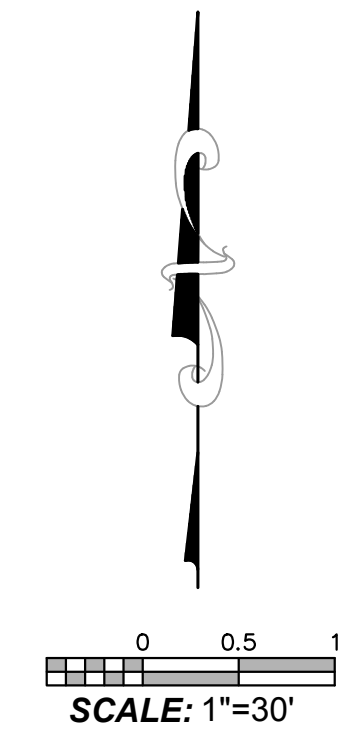
### BOTANICAL NAME

- |  |                                 |                    |
|--|---------------------------------|--------------------|
|  | <i>Platanus racemosa</i>        | Western Sycamore   |
|  | <i>Populus trichocarpa</i>      | Black Cottonwood   |
|  | <i>Quercus agrifolia</i>        | Coast Live Oak     |
|  | <i>Sambucus mexicanus</i>       | Mexican Elderberry |
|  | <i>Umbellularia californica</i> | Bay Laurel         |

### COMMON NAME

### NOTES:

- REFER TO L-2 FOR PLANTING SCHEDULE.
- HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET.
- VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
- REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.

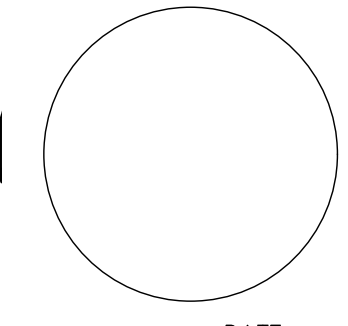


SCALE: 1"=30'



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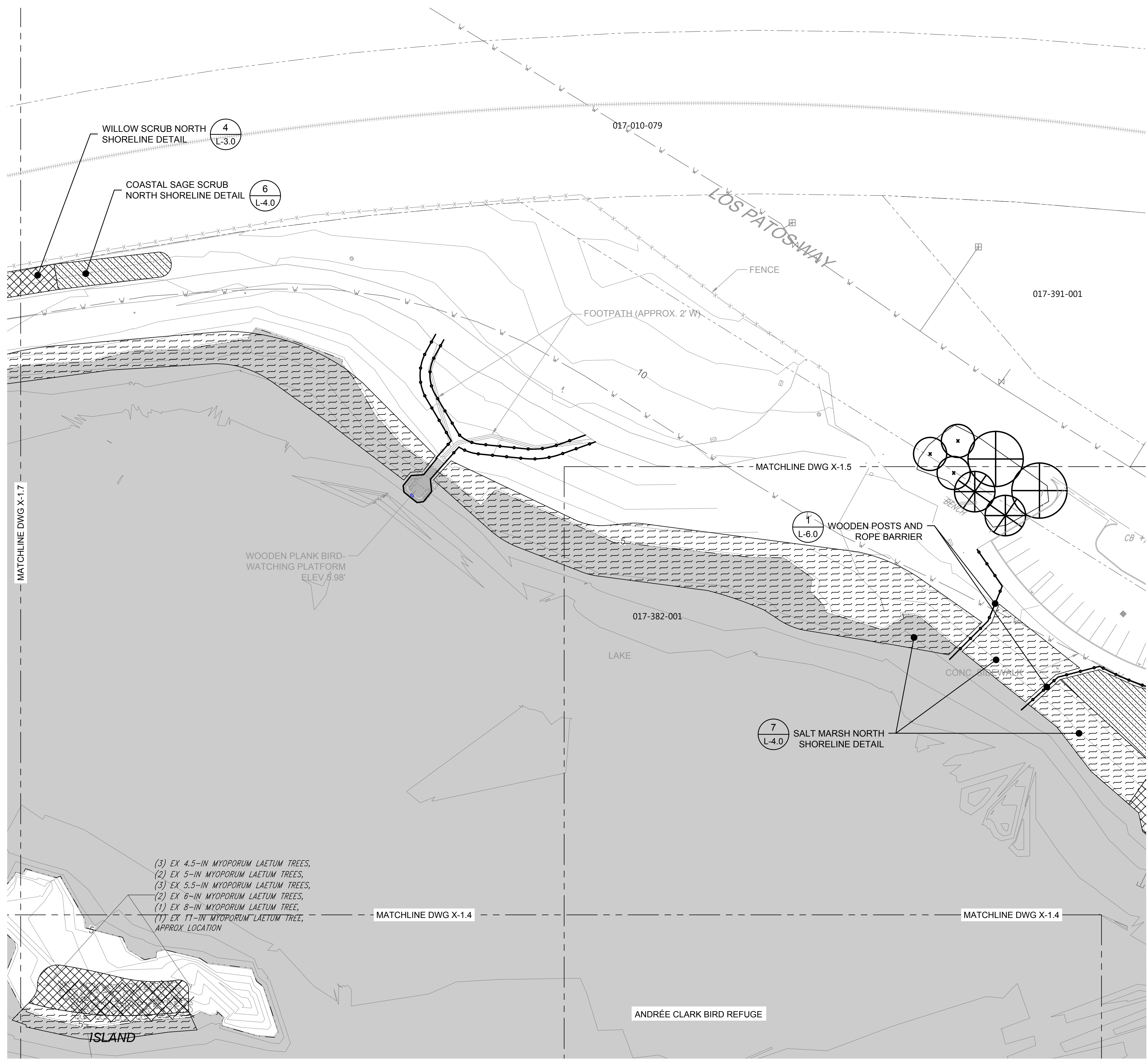
PROPERTY LINES  
ARE APPROXIMATE



PROJECT ENGINEER DATE



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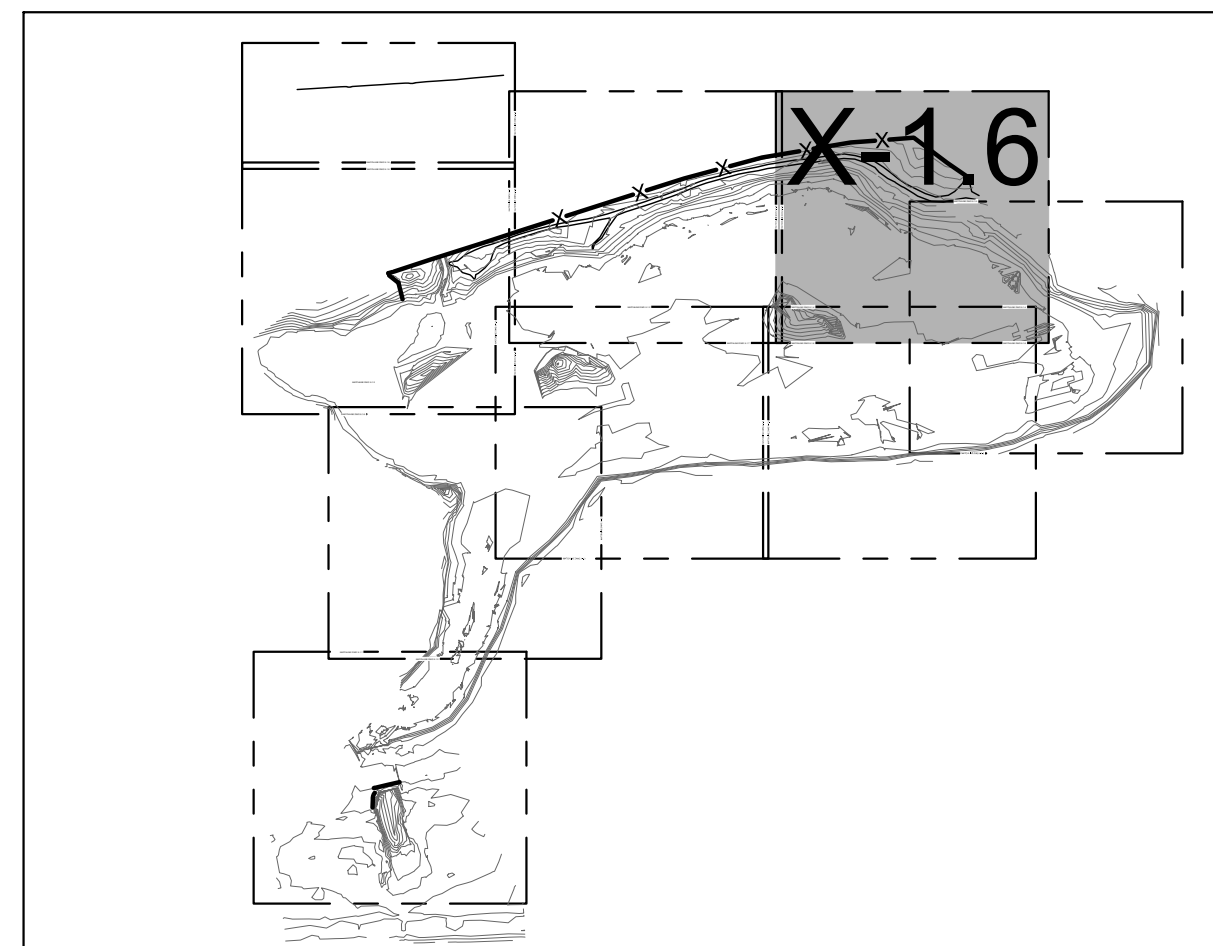
WILLOW SCRUB NORTH SHORELINE DETAIL (4) L-3.0

COASTAL SAGE SCRUB NORTH SHORELINE DETAIL (6) L-4.0

WOODEN POSTS AND ROPE BARRIER (1) L-6.0

SALT MARSH NORTH SHORELINE DETAIL (7) L-4.0

(3) EX 4.5-IN MYOPORUM LAETUM TREES,  
 (2) EX 5-IN MYOPORUM LAETUM TREES,  
 (3) EX 5.5-IN MYOPORUM LAETUM TREES,  
 (2) EX 6-IN MYOPORUM LAETUM TREES,  
 (1) EX 8-IN MYOPORUM LAETUM TREE,  
 (1) EX 11-IN MYOPORUM LAETUM TREE,  
 APPROX. LOCATION



SHEET INDEX

LEGEND

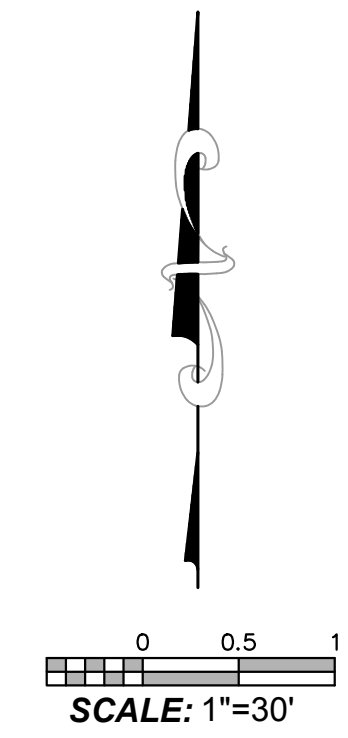
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- PROPOSED CONTOURS (1' & 5' INTERVALS)
- PROPOSED WOODEN POSTS AND ROPE BARRIER
- SALT MARSH
- WILLOW SCRUB
- WOODLAND
- COASTAL SAGE SCRUB
- DUNE
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

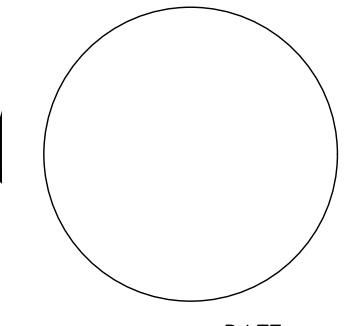
BOTANICAL NAME	COMMON NAME
<i>Quercus agrifolia</i>	Coast Live Oak
<i>Sambucus mexicana</i>	Mexican Elderberry
<i>Umbellularia californica</i>	Bay Laurel

NOTES:

1. REFER TO L-2 FOR PLANTING SCHEDULE.
2. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET.
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4. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.



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CITY ENGINEER	ORIGINAL SIGNED DATE

DESIGN: CW  
 DRAWN: EBP  
 CHECKED: MW  
 65%  
 DRAFT

NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
 COASTAL RESTORATION  
 PLANTING PLAN (6 OF 9)

PBW. NO.	
BID NO.	
SHT. DES.	L-1.6
DWG. NO.	
SHT. OF	45 OF 53

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ENGINEERING DIVISION

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DRAWN: \_\_\_\_\_  
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DATE: \_\_\_\_\_

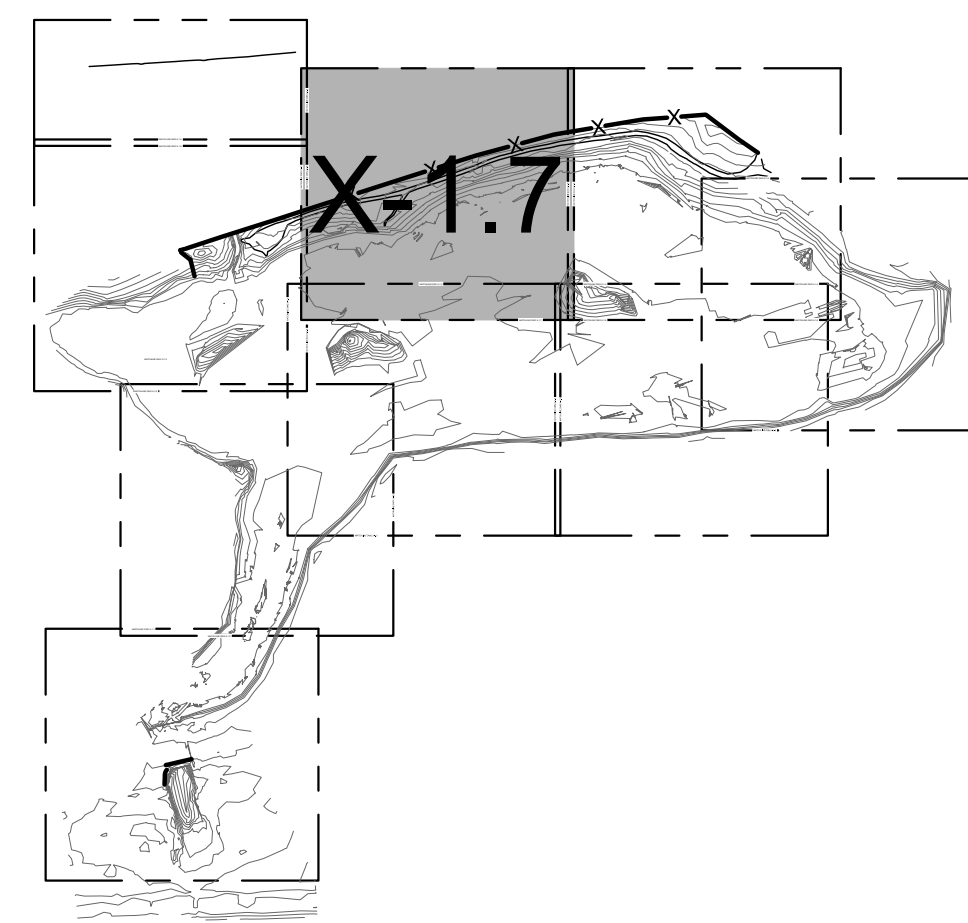
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NO.	DATE	APPROVED	REVISIONS

NO. \_\_\_\_\_

# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION PLANTING PLAN (7 OF 9)

	PBW. NO.
	SHT. DES.
	L-1.7
	DWG. NO.
	SHT. 46 OF 53



SHEET INDEX

### LEGEND

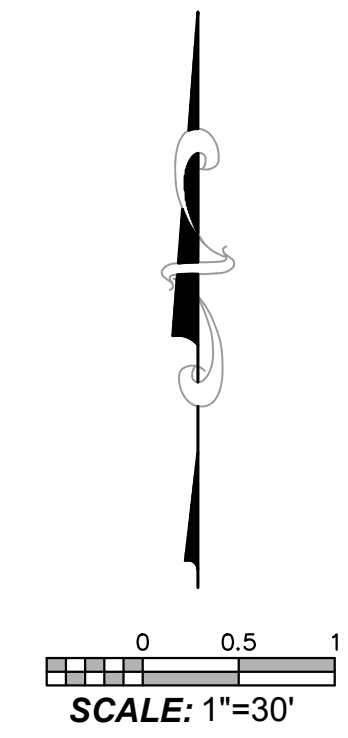
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- PROPOSED WOODEN POSTS AND ROPE BARRIER
- SALT MARSH
- WILLOW SCRUB
- WOODLAND
- COASTAL SAGE SCRUB

### BOTANICAL NAME      COMMON NAME

- Umbellularia californica*      Bay Laurel

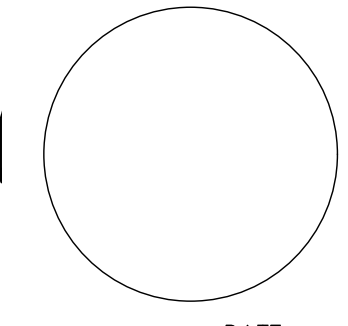
### NOTES:

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2. HORIZONTAL DATUM: CALIFORNIA STATE PLANE ZONE V, NORTH AMERICAN DATUM (NAD83), U.S. SURVEY FEET.
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4. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS..

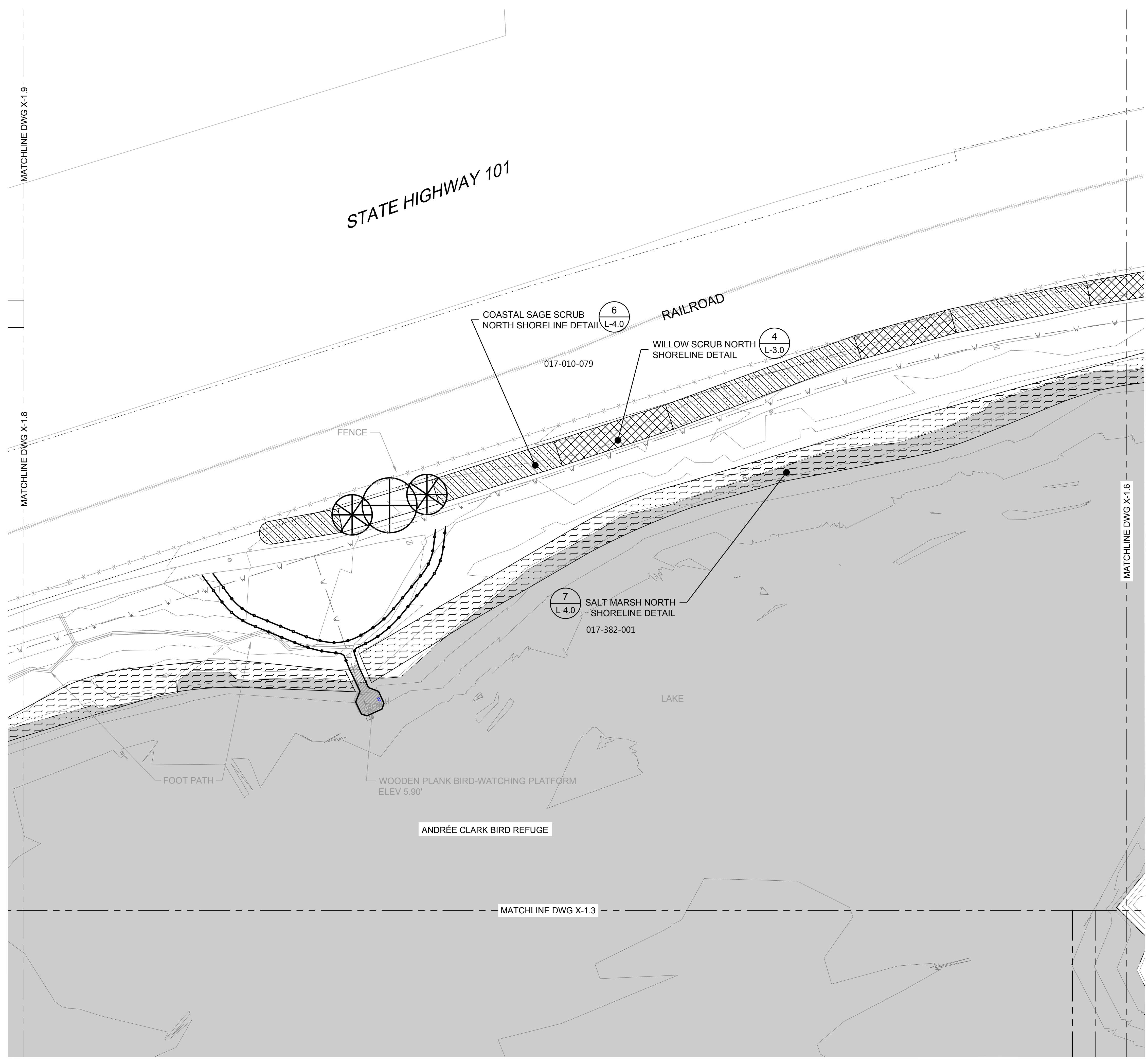


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ENGINEERING DIVISION

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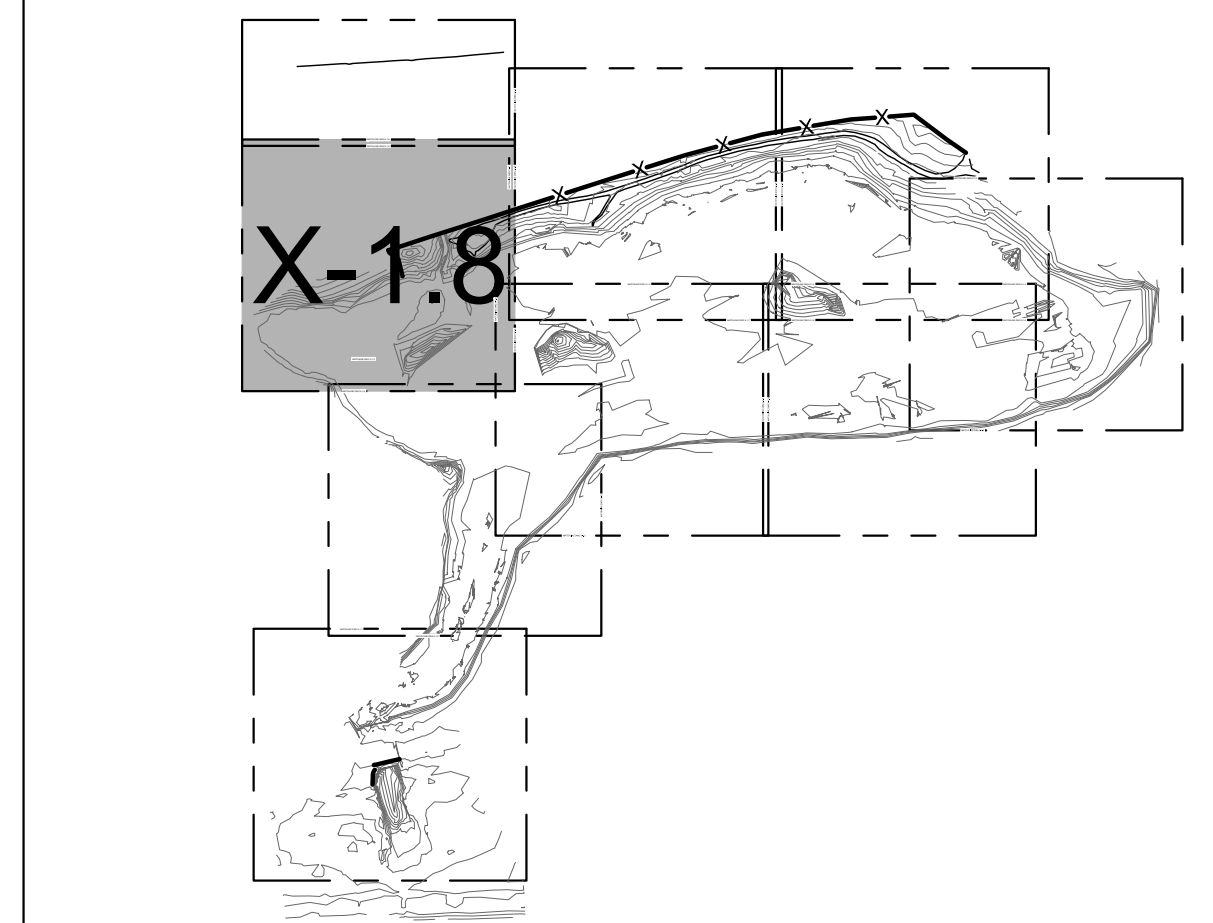
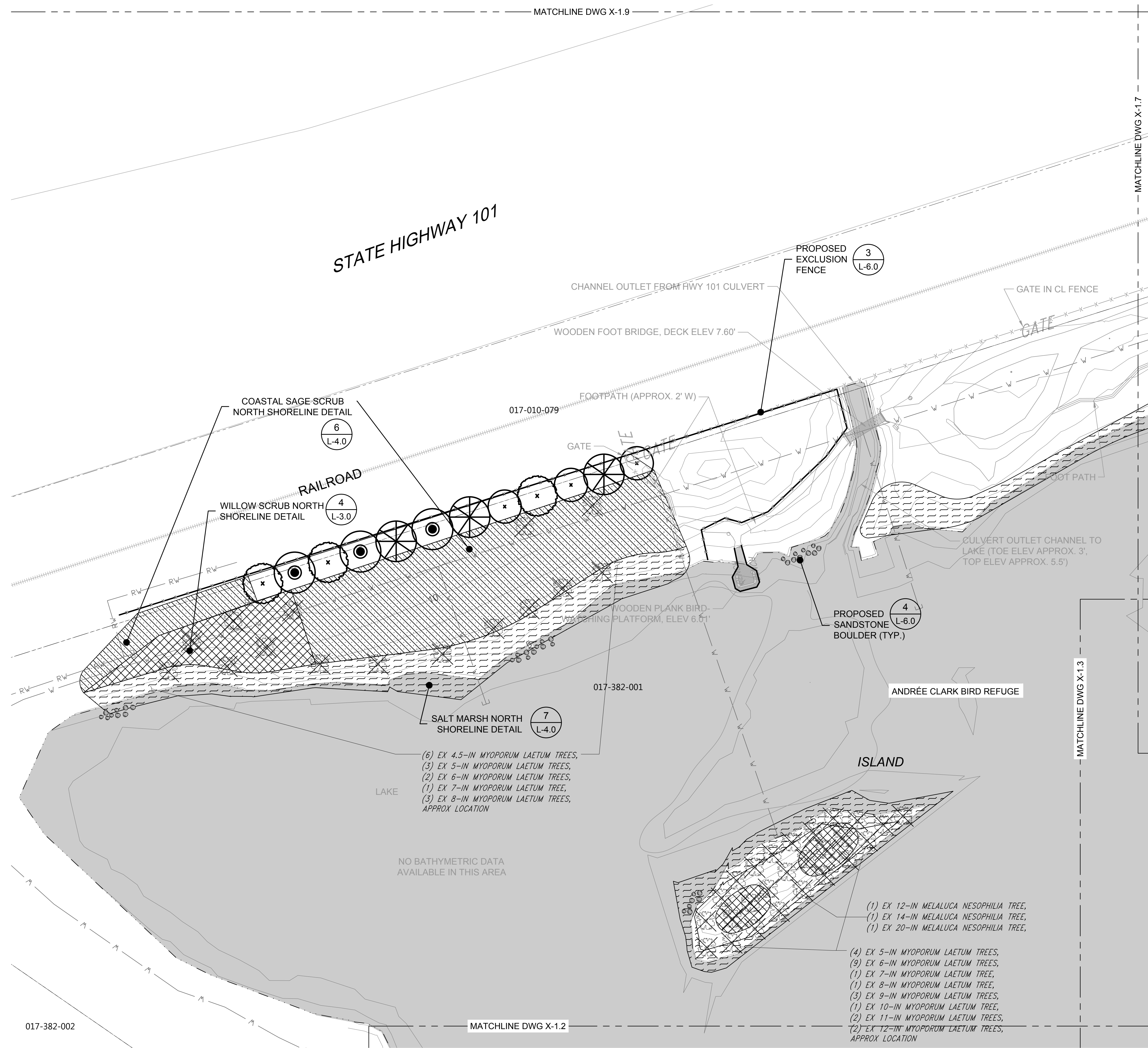
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DATE: \_\_\_\_\_

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NO.	DATE	APPROVED	DESIGN	DRAWN	EBP	CHECKED	MW	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
COASTAL RESTORATION  
PLANTING PLAN (8 OF 9)

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
L-1.8  
DWG. NO. \_\_\_\_\_  
SHT. 47 OF 53



SHEET INDEX

LEGEND

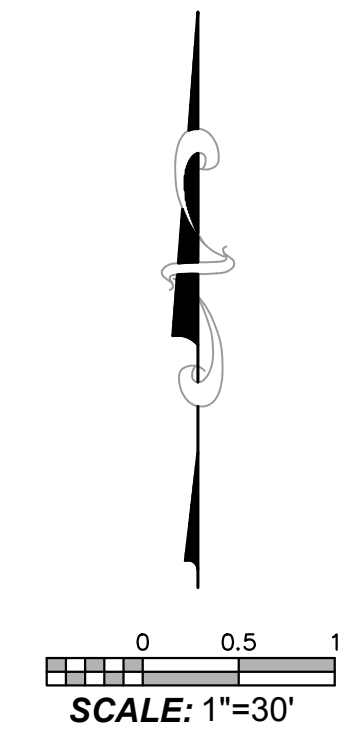
- EXISTING CONTOURS (1' & 5' INTERVALS)
- ELEV AT OR BELOW PROPOSED WEIR CREST ELEV
- PARCEL BOUNDARY
- PROPOSED EXCLUSION FENCE
- SALT MARSH
- WILLOW SCRUB
- WOODLAND
- COASTAL SAGE SCRUB
- PROPOSED SANDSTONE BOULDERS
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

BOTANICAL NAME	COMMON NAME
<i>Platanus racemosa</i>	Western Sycamore
<i>Populus trichocarpa</i>	Black Cottonwood
<i>Umbellularia californica</i>	Bay Laurel

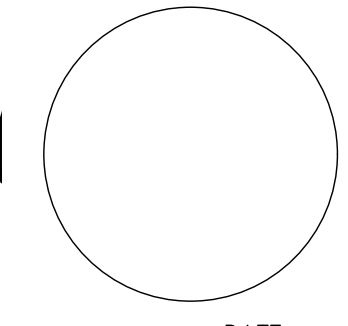
NOTES:

- REFER TO L-2 FOR PLANTING SCHEDULE.
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**FRESHWATER MARSH**

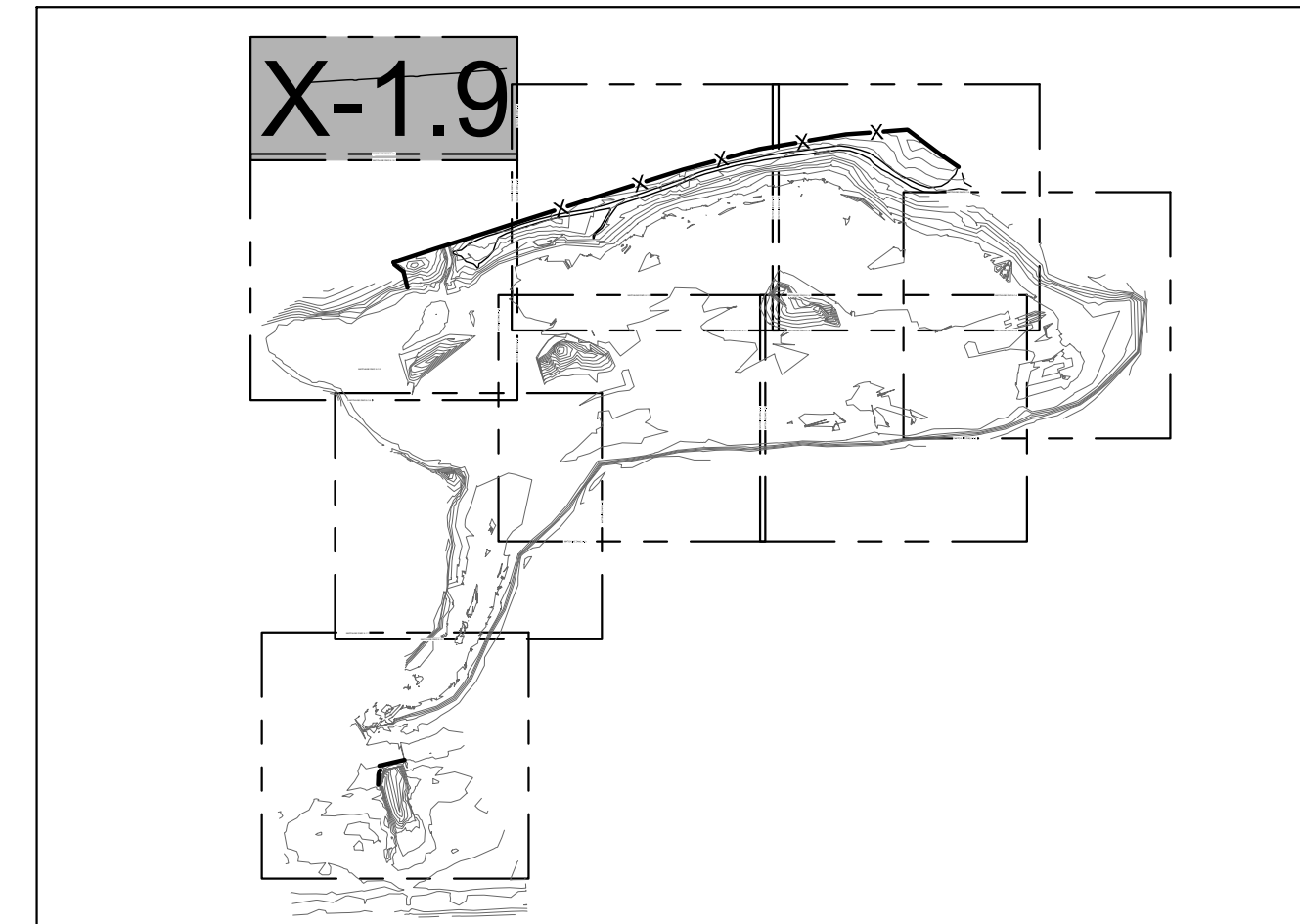
SPECIES NAME	COMMON NAME	CONTAINER	SPACING
ANCA	<i>Anemopsis californicum</i>	4 in pot	3' O.C.
BOMA	<i>Bolboschoenus maritimus</i>	1 gal	5' O.C.
ELMA	<i>Eleocharis macrostachya</i>	4 in pot	3' O.C.
ELTR	<i>Elymus triticoides</i>	4 in pot	3' O.C.
JUAC	<i>Juncus acutus</i>	1 gal	5' O.C.
TYDO	<i>Typha domingensis</i>	1 gal	5' O.C.

**WILDFLOWER SEED - HYDROSEED (SEE NOTE 6)**

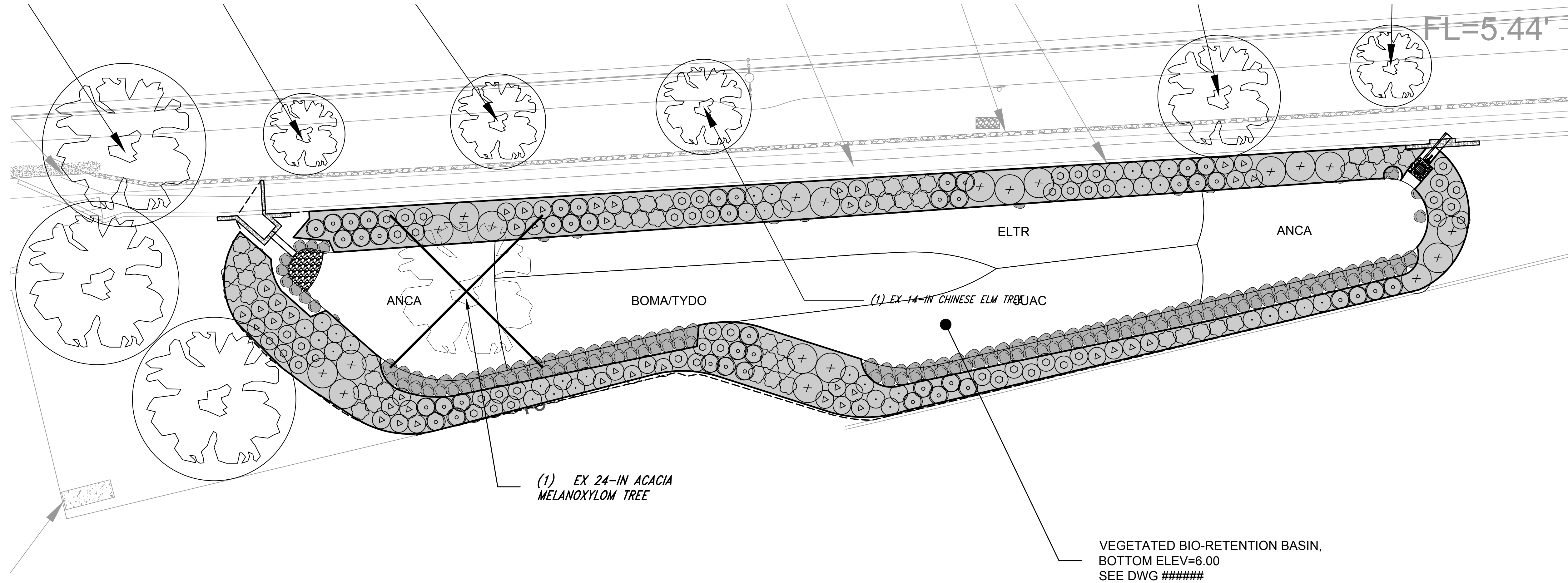
SPECIES NAME	COMMON NAME	SEED LBS/ac
<i>Eschscholzia californica</i>	California Poppy	5
<i>Lupinus succulentus</i>	Succulent Lupine	3.5
<i>Sisyrinchium bellum</i>	Blue Eyed Grass	2.5

**COASTAL SAGE AND WILLOW SCRUB**

SPECIES NAME	COMMON NAME	CONTAINER	SPACING
<i>Acmispon glaber</i>	Deerweed	1 gal	3' O.C.
<i>Baccharis salicifolia</i>	Mulefat	1 gal	5' O.C.
<i>Epilobium canum</i>	California Fuschia	1 gal	3' O.C.
<i>Encelia californica</i>	Coast Sunflower	1 gal	3' O.C.
<i>Eriogonum fasciculatum</i>	California Buckwheat	1 gal	3' O.C.
<i>Salvia mellifera</i>	Black Sage	1 gal	3' O.C.



SHEET INDEX



- EXISTING CONTOURS (1' & 5' INTERVALS)
- LIMIT OF GRADING
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED

TREE NOTE: NOT ALL TREES SHOWN IN PLANS. ONLY TREES TO BE REMOVED OR PROTECTED IN PLACE ARE PRESENTED.

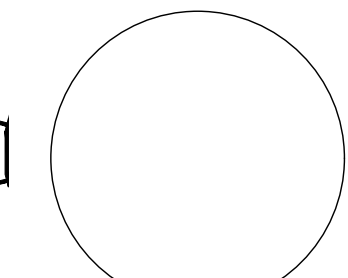
**NOTES:**

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2. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929, FEET.
3. REFER TO EXISTING CONDITIONS PLANS (SHEETS V-1.1 THROUGH V 1.9) FOR EXISTING CONDITION PLANS.
4. PLANT LOCATION SHALL BE FIELD-DIRECTED BY OWNER PRIOR TO INSTALLATION.
5. REFER TO L-2 FOR PLANTING SCHEDULE (CONTAINER SIZE, SPACING, AND QUANTITIES).
6. THE SEED MIX AT THE BIO-RETENTION BASIN AREA WILL BE A HYDROSEED APPLICATION.

SCALE: 1"=10'



PROPERTY LINES ARE APPROXIMATE



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

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NO.	DATE	APPROVED	REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PLANTING PLAN (9 OF 9)

PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
L-1.9  
DWG. NO. \_\_\_\_\_  
SHT. 48 OF 53





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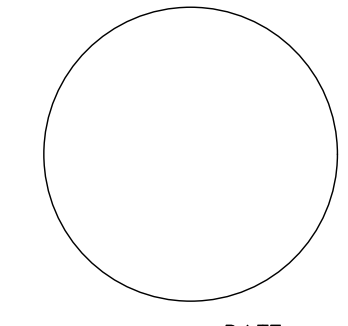
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NO. \_\_\_\_\_ DATE \_\_\_\_\_  
REVISIONS

ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PLANTING SCHEDULE

PBW. NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
L-2.0  
DWG. NO. \_\_\_\_\_  
SHT. 49 OF 53

SYMBOL	HABITAT/COMMUNITY	PLANT SCHEDULE						SITE LOCATION										Total Plant Count	Unit	Detail Reference
		SPECIES NAME	COMMON NAME	CONTAINER OR SEED	CONTAINER SIZE	SPACING	SEED LBS/ac	Bioretention Basin	Beach Lagoon	North Shore	South Shore	West Shore	Island	Foredune	Backdune	Parking Area				
Freshwater Marsh		<i>Anemopsis californicum</i>	Yerba Mansa	Container	4 in	3' O.C.												Ea	SHEET L-1.9 2 L-5.0 3 L-5.0	
		<i>Bolboschoenus maritimus</i>	Alkali Bulrush	Container	1 gal	5' O.C.												Ea		
		<i>Eleocharis macrostachya</i>	Spike Rush	Container	4 in	3' O.C.												Ea		
		<i>Elymus triticoides</i>	Alkali Rye	Container	4 in	3' O.C.												Ea		
		<i>Juncus acutus</i>	Spiny Rush	Container	1 gal	5' O.C.												Ea		
		<i>Typha domingensis</i>	Southern Cattail	Container	1 gal	5' O.C.												Ea		
Salt Marsh		<i>Arthrocnemum subterminale</i>	Parish's Glasswort	Container	4 in	3' O.C.												Ea	2 L-3.0 7 L-4.0 2 L-5.0 3 L-5.0	
		<i>Batis maritima</i>	Salt Wort	Container	4 in	3' O.C.												Ea		
		<i>Centromadia paryii australis</i>	Southern Tarplant	Seed	--	--	2											Ac		
		<i>Distichlis littoralis</i>	Shoregrass	Container	4 in	3' O.C.												Ea		
		<i>Distichlis spicata</i>	Salt Grass	Container	4 in	3' O.C.												Ea		
		<i>Frankenia salina</i>	Alkali Heath	Container	4 in	3' O.C.												Ea		
		<i>Heliotropium curassavicum</i>	Seaside Heliotrope	Seed	--	--	1.5											Ac		
		<i>Jaumea carnosa</i>	Fleshy Jaumea	Container	4 in	3' O.C.												Ea		
		<i>Juncus acutus</i>	Spiny Rush	Container	1 gal	5' O.C.												Ea		
		<i>Limonium californicum</i>	Marsh Rosemary	Container	4 in	3' O.C.												Ea		
		<i>Malvella leprosa</i>	Alkali Mallow	Seed	--	--	3											Ac		
		<i>Sueada taxifolia</i>	Woolly Sea Blite	Container	1 gal	5' O.C.												Ea		
	Willow Scrub		<i>Baccharis salicifolia</i>	Mulefat	Container	1 gal														Ea
		<i>Salix laevigata</i>	Red Willow	Container	1 gal													Ea		
		<i>Salix lasiolepis</i>	Arroyo Willow	Container	1 gal													Ea		
Woodland		<i>Platanus racemosa</i>	Western Sycamore	Container	5 gal - 24"													Ea	3 L-5.0 4 L-5.0	
		<i>Populus trichocarpa</i>	Black Cottonwood	Container	5 gal - 24"													Ea		
		<i>Quercus agrifolia</i>	Coast Live Oak	Container	Treepot - 24"													Ea		
		<i>Sambucus mexicana</i>	Mexican Elderberry	Container	1 gal													Ea		
		<i>Umbellularia californica</i>	Bay Laurel	Container	5 gal													Ea		
Coastal Sage Scrub		<i>Acmispon glaber</i>	Deerweed	Container	1 gal	5' O.C.	4											Ea	5 L-4.0 6 L-4.0 2 L-5.0	
		<i>Artemisia californica</i>	California Sagebrush	Container	1 gal	5' O.C.												Ea		
		<i>Epilobium canum</i>	California Fuschia	Container	1 gal	5' O.C.												Ea		
		<i>Encelia californica</i>	Coast Sunflower	Container	1 gal	5' O.C.												Ea		
		<i>Eriogonum fasciculatum</i>	California Buckwheat	Container	1 gal	5' O.C.												Ea		
		<i>Heteromeles arbutifolia</i>	Toyon	Container	1 gal	8' O.C.												Ea		
		<i>Isocoma menziesii</i>	Coast Goldenbush	Container	1 gal	5' O.C.												Ea		
		<i>Lonicera subspicata</i>	Southern Honeysuckle	Container	1 gal	5' O.C.												Ea		
		<i>Malosma laurina</i>	Laurel Sumac	Container	1 gal	8' O.C.												Ea		
		<i>Prunus ilicifolia</i>	Hollyleaf Cherry	Container	1 gal	8' O.C.												Ea		
		<i>Quercus dumosa</i>	Scrub Oak	Container	1 gal	5' O.C.												Ea		
		<i>Rhus integrifolia</i>	Lemonade Berry	Container	1 gal	8' O.C.												Ea		
		<i>Salvia mellifera</i>	Black Sage	Container	1 gal	5' O.C.												Ea		
		<i>Sueada taxifolia</i>	Wholly Sea Blite	Container	1 gal	5' O.C.												Ea		
	Dune		<i>Abronia maritima</i>	Red Sand Verbena	Seed	--	--	2												Ac
		<i>Abronia umbellata</i>	Pink Sand Verbena	Seed	--	--	2											Ac		
		<i>Ambrosia chamissonis</i>	Beach Bur	Container	1 gal	5' O.C.												Ea		
		<i>Astragalus trichopodus</i>	Santa Barbara Milkvetch	Container	1 gal	5' O.C.												Ea		
		<i>Atriplex leucophylla</i>	Sea Scale	Container	4 in	3' O.C.												Ea		
		<i>Camissoniopsis chieranthifolia</i>	Beach Evening Primrose	Seed	--	--	1.5											Ac		
		<i>Camissoniopsis micrantha</i>	Spencer Primrose	Seed	--	--	1.5											Ac		
		<i>Corethrogyne filaginifolia</i>	Common Sandaster	Container	1 gal	5' O.C.												Ea		
		<i>Eriogonum parvifolium</i>	Seacliff Buckwheat	Container	4 in	3' O.C.												Ea		
		<i>Phacelia ramosissima</i>	Branching Phacelia	Container	1 gal	5' O.C.												Ea		
Wildflower			<i>Eschscholzia californica</i>	California Poppy	Seed	--	--	5											Ac	SHEET L-1.9
		<i>Lupinus succulentus</i>	Succulent Lupine	Seed	--	--	3.5											Ac		
		<i>Sisyrinchium bellum</i>	Blue Eyed Grass	Seed	--	--	2.5											Ac		



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

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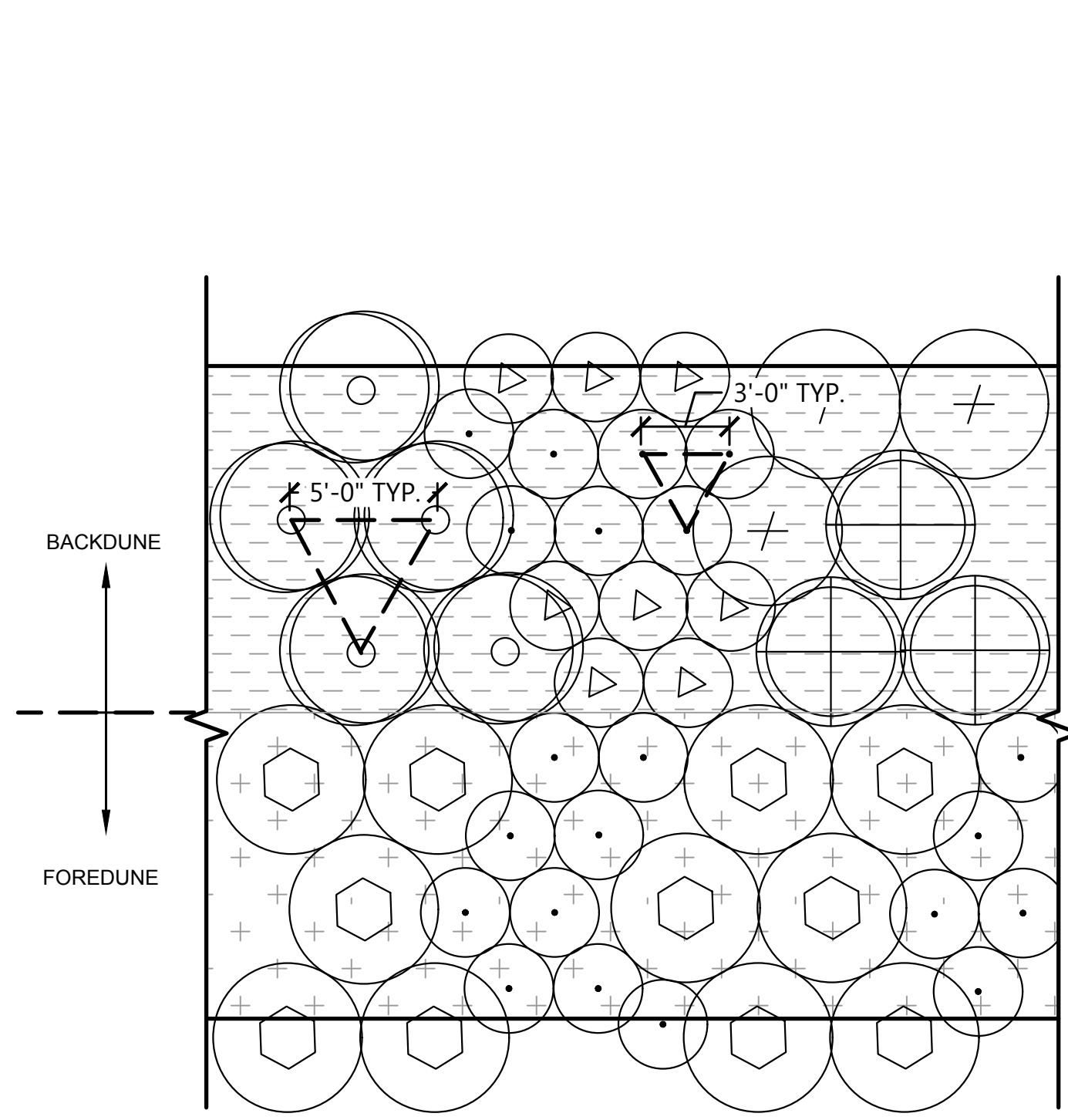
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DRAFT

DATE APPROVED: \_\_\_\_\_  
NO. \_\_\_\_\_

REVISIONS

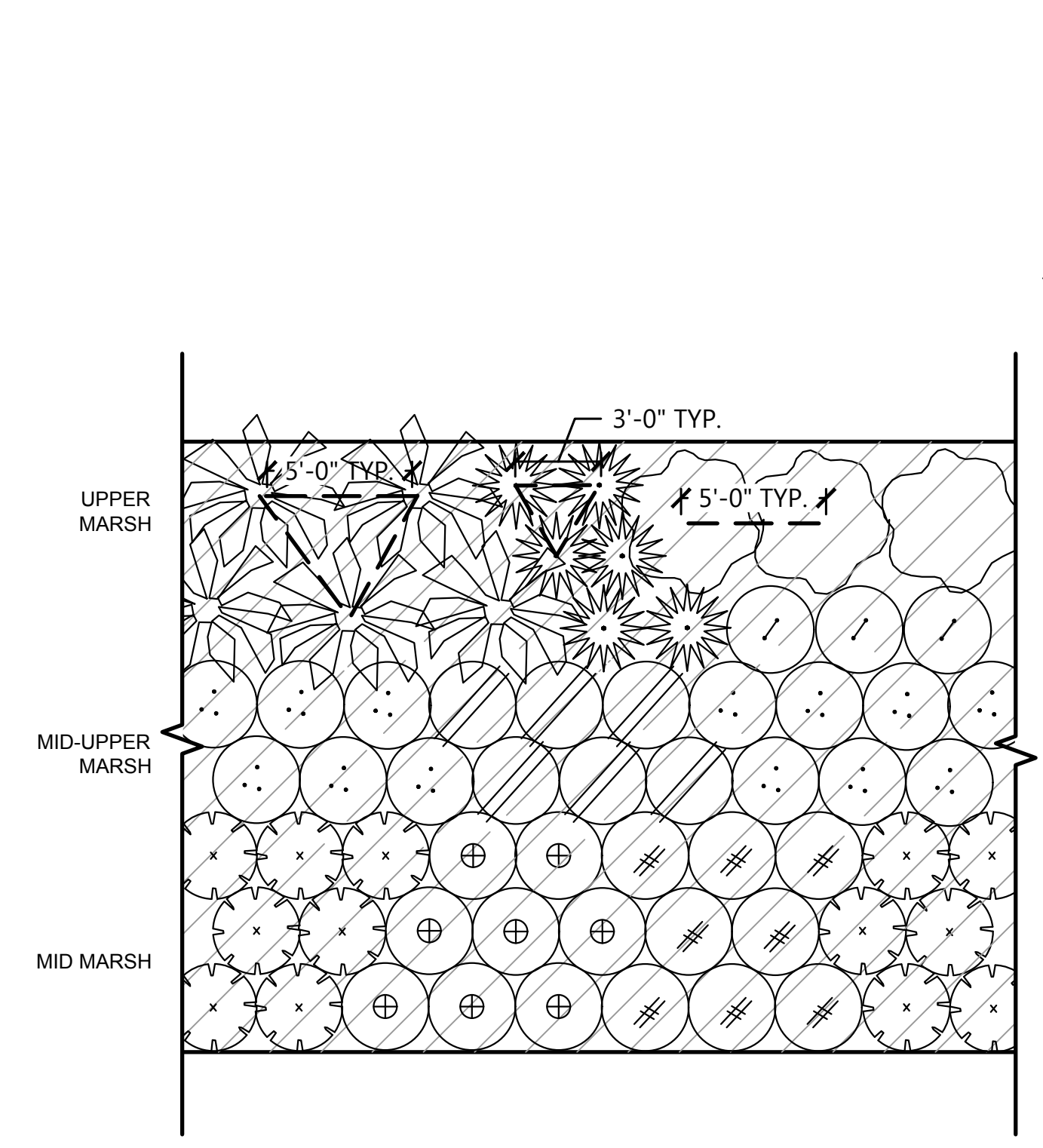
ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PLANTING DETAILS

PBW NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
L-3.0  
DWG. NO. \_\_\_\_\_  
SHT. 50 OF 53



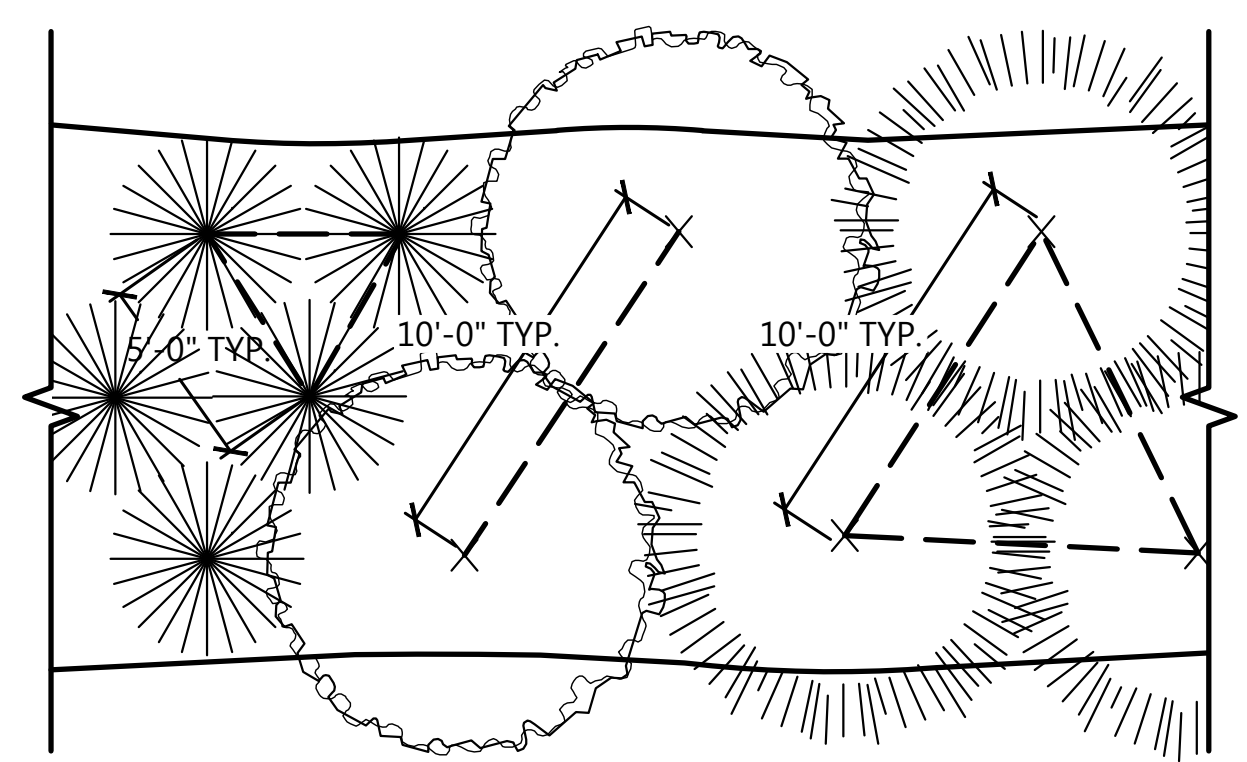
BACKDUNE				
SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Astragalus trichopodus</i>	Santa Barbara Milkvetch	1 gal	5' O.C.	
<i>Atriplex leucophylla</i>	Sea Scale	4 in	3' O.C.	
<i>Corethrogyne filaginifolia</i>	Common Sandaster	1 gal	5' O.C.	
<i>Eriogonum parvifolium</i>	Seacliff Buckwheat	4 in pot	3' O.C.	
<i>Phacelia ramosissima</i>	Branching Phacelia	1 gal	5' O.C.	
SEED MIX				
<i>Abronia umbrellata</i>	Pink Sand Verbena			
<i>Camissoniopsis chireanthifolia</i>	Beach Evening Primrose			
<i>Camissoniopsis micrantha</i>	Spencer Primrose			
FOREDUNE				
SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Ambrosia chamissonis</i>	Beach Bur	1 gal	5' O.C.	
<i>Atriplex leucophylla</i>	Sea Scale	4 in	3' O.C.	
SEED MIX				
<i>Abronia maritima</i>	Red Sand Verbena			
<i>Abronia umbrellata</i>	Pink Sand Verbena			
<i>Camissoniopsis chireanthifolia</i>	Beach Evening Primrose			

1 FOREDUNE/BACKDUNE PLANTING  
L-3.0 SCALE: 1" = 5' TYPICAL LAYOUT



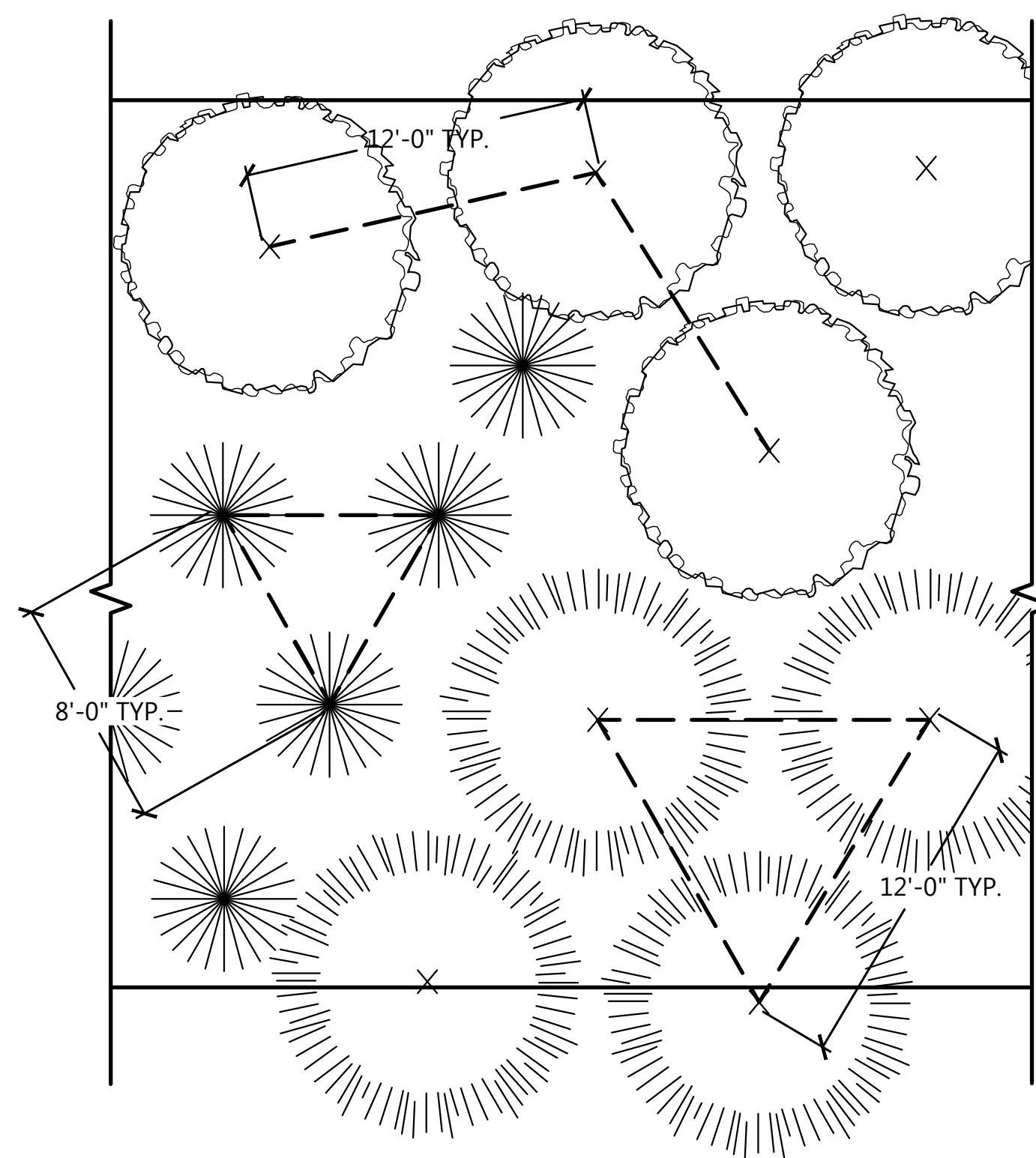
UPPER MARSH				
SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Arthrocnemum subterminale</i>	Parish's Glasswort	4 in pot	3' O.C.	
<i>Distichlis littoralis</i>	Shoregrass	4 in pot	3' O.C.	
<i>Juncus acutus</i>	Spiny Rush	1 gal	5' O.C.	
<i>Sueada taxifolia</i>	Woolly Sea Blite	1 gal	5' O.C.	
UPPER-MID MARSH				
SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Distichlis spicata</i>	Salt Grass	4 in pot	3' O.C.	
<i>Frankenia salina</i>	Alkali Heath	4 in pot	3' O.C.	
MID MARSH				
SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Batis maritima</i>	Salt Wort	4 in pot	3' O.C.	
<i>Jaumea carnosa</i>	Fleshy Jaumea	4 in pot	3' O.C.	
<i>Limonium californicum</i>	Marsh Rosemary	4 in pot	3' O.C.	
SEED MIX				
<i>Heliotropium curassavicum</i>	Seaside Heliotrope			
<i>Malvella leprosa</i>	Alkali Mallow			

2 SALT MARSH LAGOON/SOUTH SHORELINE  
L-3.0 SCALE: 1" = 5' TYPICAL LAYOUT



SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Baccharis salicifolia</i>	Mulefat	1 gal	5' O.C.	
<i>Salix laevigata</i>	Red Willow	1 gal	10' O.C.	
<i>Salix laeseolepis</i>	Arroyo Willow	1 gal	10' O.C.	

3 WILLOW SCRUB WEST SHORELINE  
L-3.0 SCALE: 1" = 5' TYPICAL LAYOUT



SPECIES NAME	COMMON NAME	CONTAINER	SPACING	
<i>Baccharis salicifolia</i>	Mulefat	1 gal	8' O.C.	
<i>Salix laevigata</i>	Red Willow	1 gal	12' O.C.	
<i>Salix laeseolepis</i>	Arroyo Willow	1 gal	12' O.C.	

4 WILLOW SCRUB NORTH SHORELINE  
L-3.0 SCALE: 1" = 5' TYPICAL LAYOUT

- GENERAL DETAIL NOTES:**
- OVERALL DIMENSIONS OF PLANT AREA VARIES. SEE L-1.X SHEETS FOR LIMITS OF PLANTING. REPEAT PLANT SPACING AS NEEDED TO ACHIEVE UNIFORM COVERAGE.
  - PLANT LOCATION SHALL BE FIELD-DIRECTED BY OWNER.
  - BEFORE PLANTING, CONTRACTOR TO PROVIDE 10'X10' SAMPLE OF PLANTING APPROACH FOR APPROVAL BY RESTORATION ECOLOGIST.

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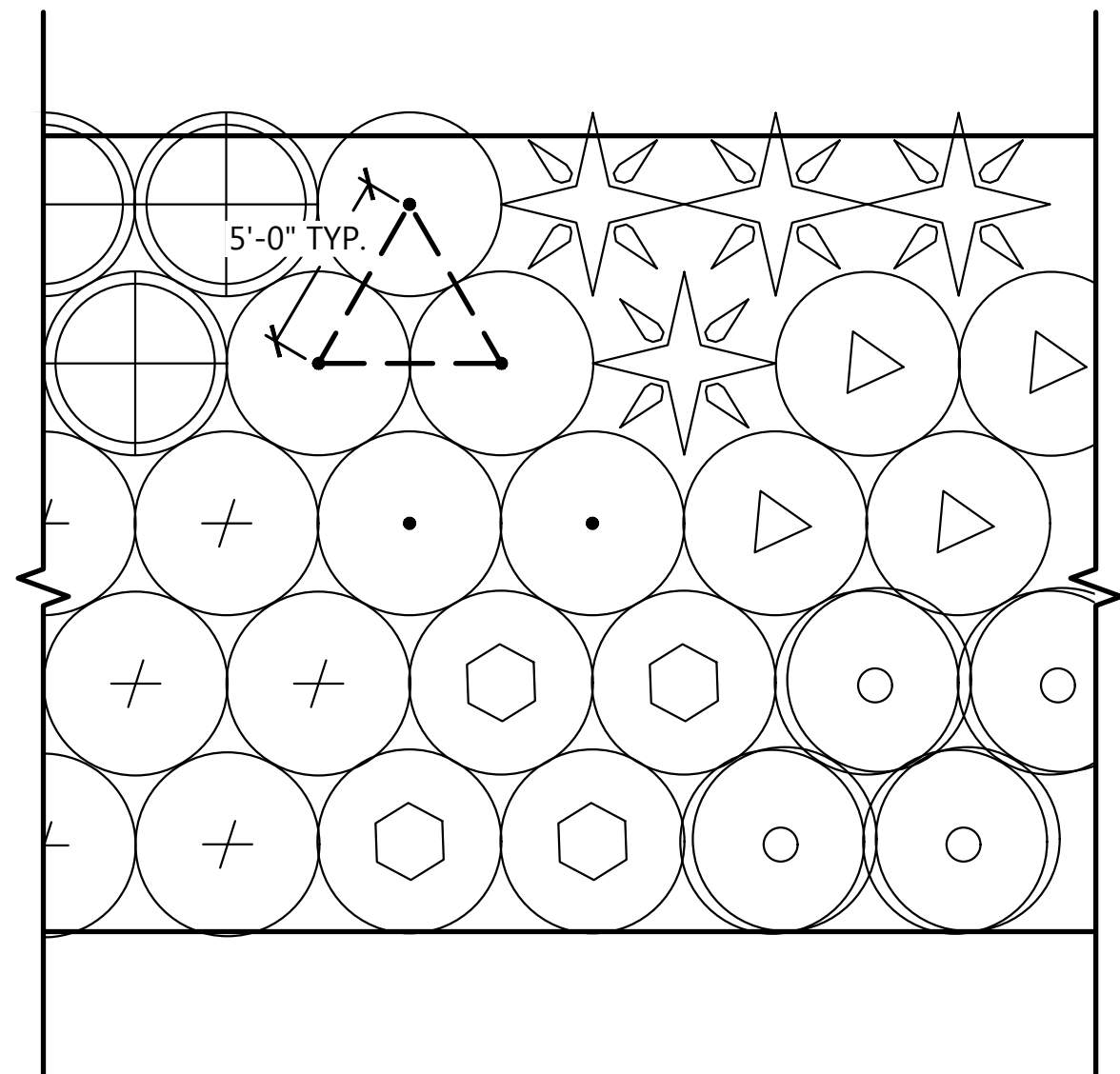
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ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
PLANTING DETAILS

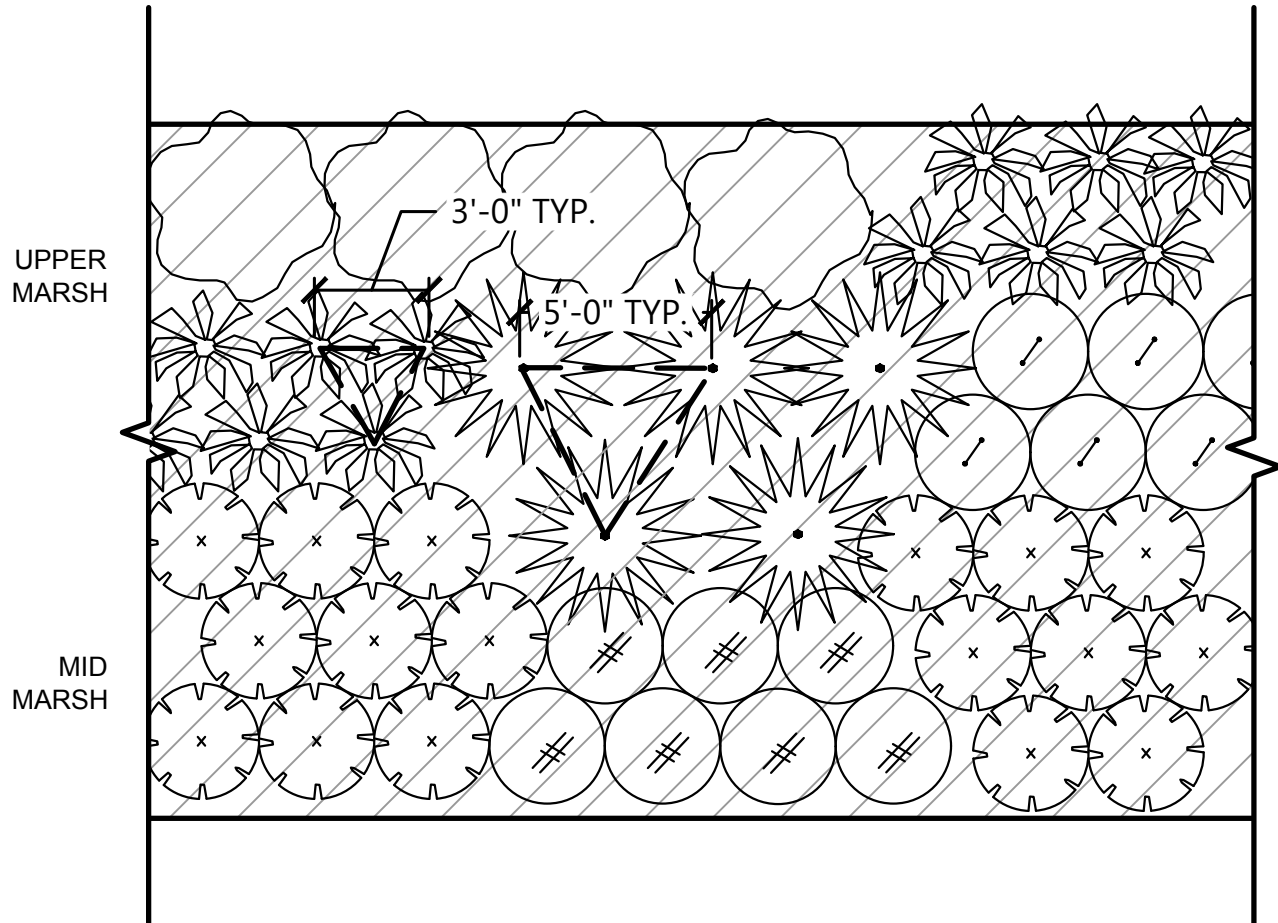
PBW NO. \_\_\_\_\_  
SHT. DES. \_\_\_\_\_  
L-4.0  
DWG. NO. \_\_\_\_\_  
SHT. 51 OF 53



5 COASTAL SAGE SCRUB SOUTH SHORELINE  
L-4.0 SCALE: 1"=5' TYPICAL LAYOUT

SPECIES NAME	COMMON NAME	CONTAINER	SPACING
<i>Acmispon glaber</i>	Deerweed	1 gal	5' O.C.
<i>Artemisia californica</i>	California Sagebrush	1 gal	5' O.C.
<i>Epilobium canum</i>	California Fuschia	1 gal	5' O.C.
<i>Encelia californica</i>	Coast sunflower	1 gal	5' O.C.
<i>Eriogonum fasciculatum</i>	California Buckwheat	1 gal	5' O.C.
<i>Salvia mellifera</i>	Black Sage	1 gal	5' O.C.
<i>Sueada taxifolia</i>	Woolly Sea Blite	1 gal	5' O.C.

NOTES:  
1. CLUSTER SPECIES IN GROUPS OF 5-7



7 SALT MARSH NORTH SHORELINE  
L-4.0 SCALE: 1"=5' TYPICAL LAYOUT

UPPER MARSH

SPECIES NAME	COMMON NAME	CONTAINER	SPACING
<i>Arthrocnemum subterminale</i>	Parish's Glasswort	4 in pot	3' O.C.
<i>Distichlis littoralis</i>	Shoregrass	4 in pot	3' O.C.
<i>Juncus acutus</i>	Spiny Rush	1 gal	5' O.C.
<i>Sueada taxifolia</i>	Woolly Sea Blite	1 gal	5' O.C.

MID MARSH

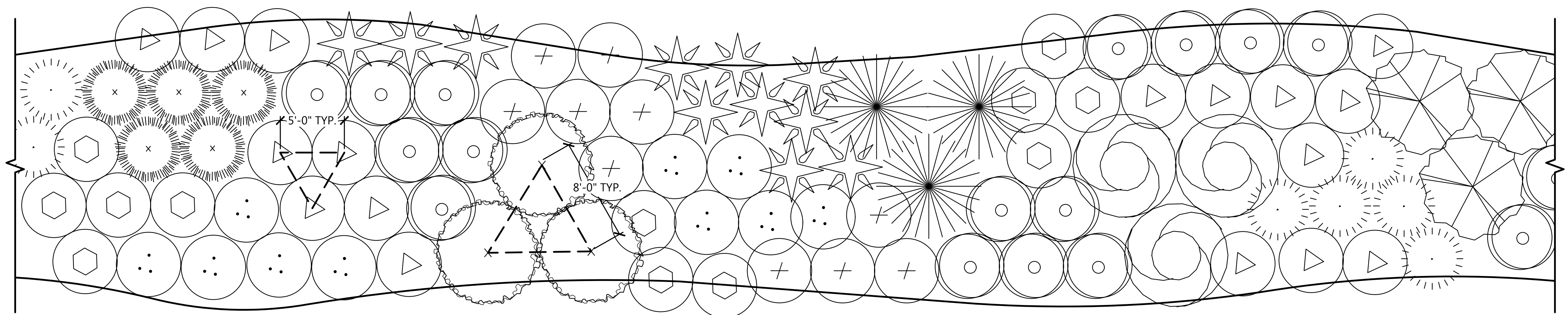
SPECIES NAME	COMMON NAME	CONTAINER	SPACING
<i>Batis maritima</i>	Salt Wort	4 in pot	3' O.C.
<i>Limonium californicum</i>	Marsh Rosemary	4 in pot	3' O.C.

SEED MIX

<i>Centromadia paryii australis</i>	Southern Tarplant
<i>Heliotropium curassavicum</i>	Seaside Heliotrope
<i>Malvella leprosa</i>	Alkali Mallow

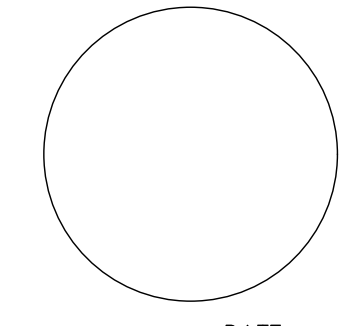
SPECIES NAME	COMMON NAME	CONTAINER	SPACING
<i>Acmispon glaber</i>	Deerweed	1 gal	5' O.C.
<i>Artemisia californica</i>	California Sagebrush	1 gal	5' O.C.
<i>Epilobium canum</i>	California Fuschia	1 gal	5' O.C.
<i>Eriogonum fasciculatum</i>	California Buckwheat	1 gal	5' O.C.
<i>Heteromeles arbutifolia</i>	Toyon	1 gal	8' O.C.
<i>Isocoma menziesii</i>	Coast Goldenbush	1 gal	5' O.C.

SPECIES NAME	COMMON NAME	CONTAINER	SPACING
<i>Lonicera subspicata</i>	Southern Honeysuckle	1 gal	5' O.C.
<i>Malosma laurina</i>	Laurel Sumac	1 gal	8' O.C.
<i>Prunus ilicifolia</i>	Hollyleaf Cherry	1 gal	8' O.C.
<i>Quercus dumosa</i>	Scrub Oak	1 gal	5' O.C.
<i>Rhus integrifolia</i>	Lemonade Berry	1 gal	8' O.C.
<i>Salvia mellifera</i>	Black Sage	1 gal	5' O.C.



6 COASTAL SAGE SCRUB NORTH SHORELINE  
L-4.0 SCALE: 1"=5' TYPICAL LAYOUT

GENERAL DETAIL NOTES:  
1. OVERALL DIMENSIONS OF PLANT AREA VARIES. SEE L-1.X SHEETS FOR LIMITS OF PLANTING. REPEAT PLANT SPACING AS NEEDED TO ACHIEVE UNIFORM COVERAGE.  
2. PLANT LOCATION SHALL BE FIELD-DIRECTED BY OWNER.  
3. BEFORE PLANTING, CONTRACTOR TO PROVIDE 10'X10' SAMPLE OF PLANTING APPROACH FOR APPROVAL BY RESTORATION ECOLOGIST.



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NO. \_\_\_\_\_ REVISIONS

NO. \_\_\_\_\_

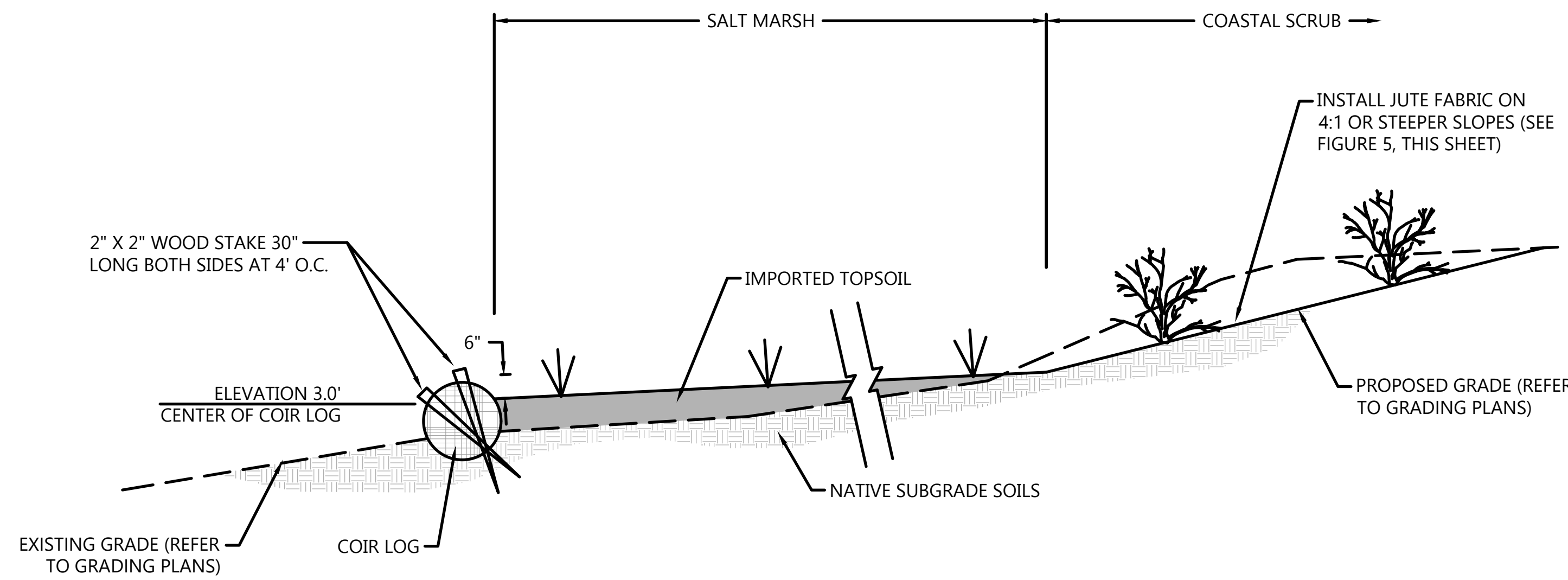
# ANDRÉE CLARK BIRD REFUGE COASTAL RESTORATION PLANTING DETAILS

PBW. NO. \_\_\_\_\_

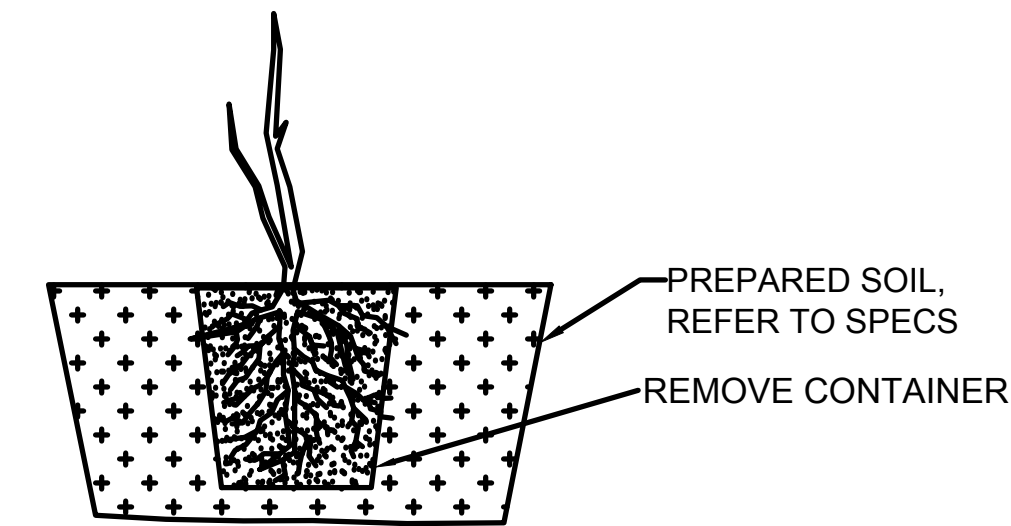
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L-5.0  
DWG. NO.

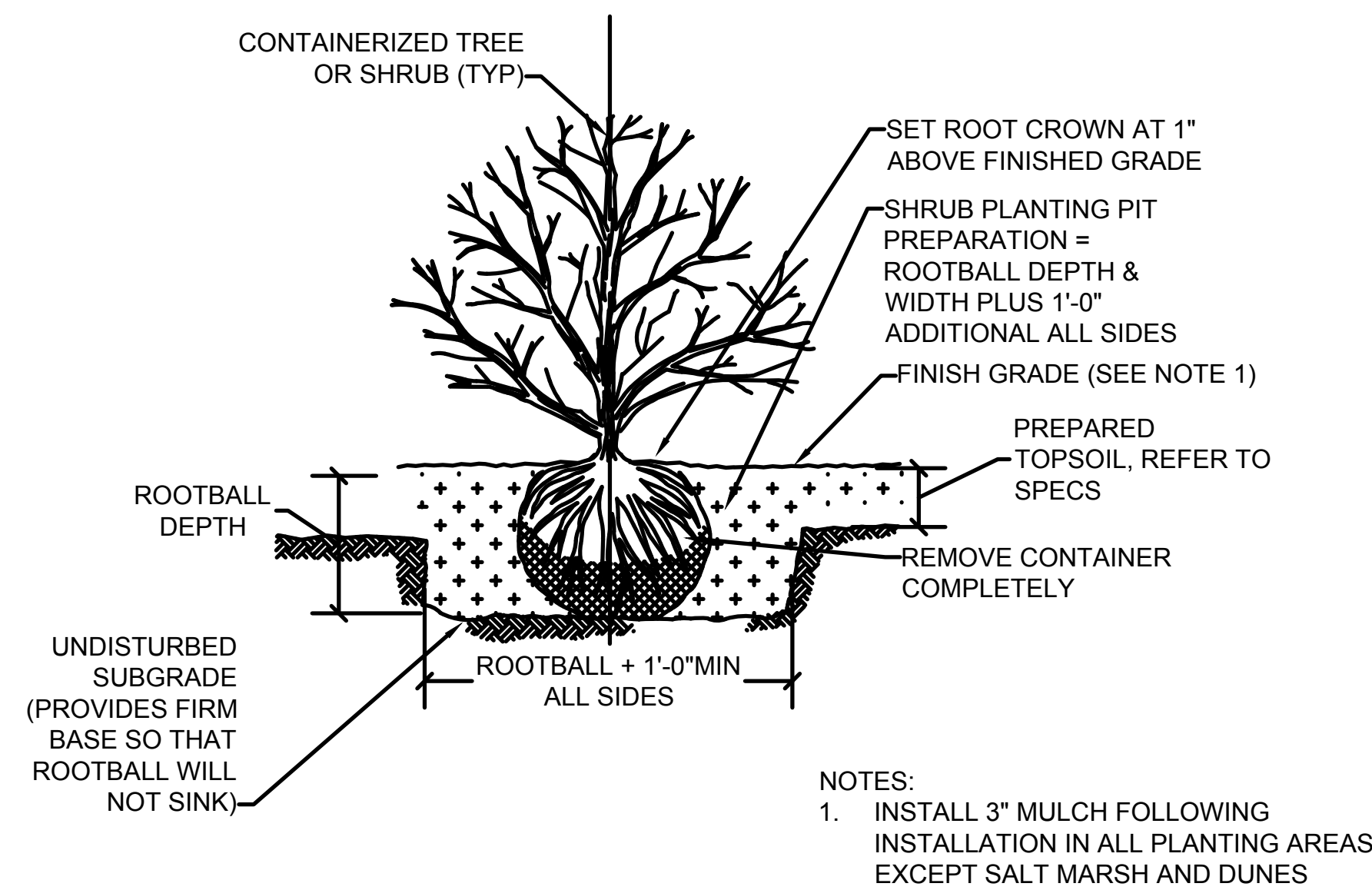
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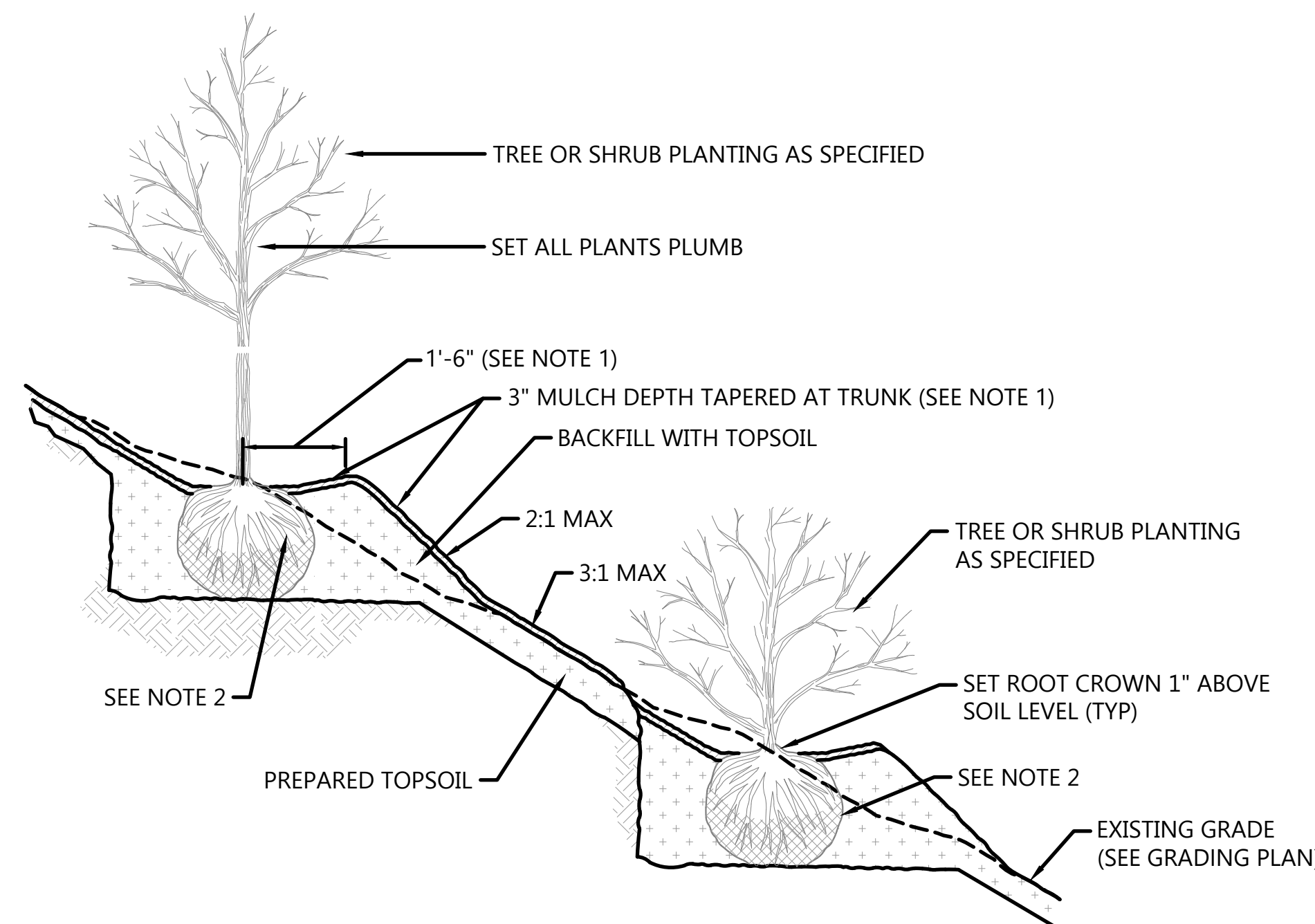
1 COIR LOG INSTALLATION  
SCALE: NOT TO SCALE



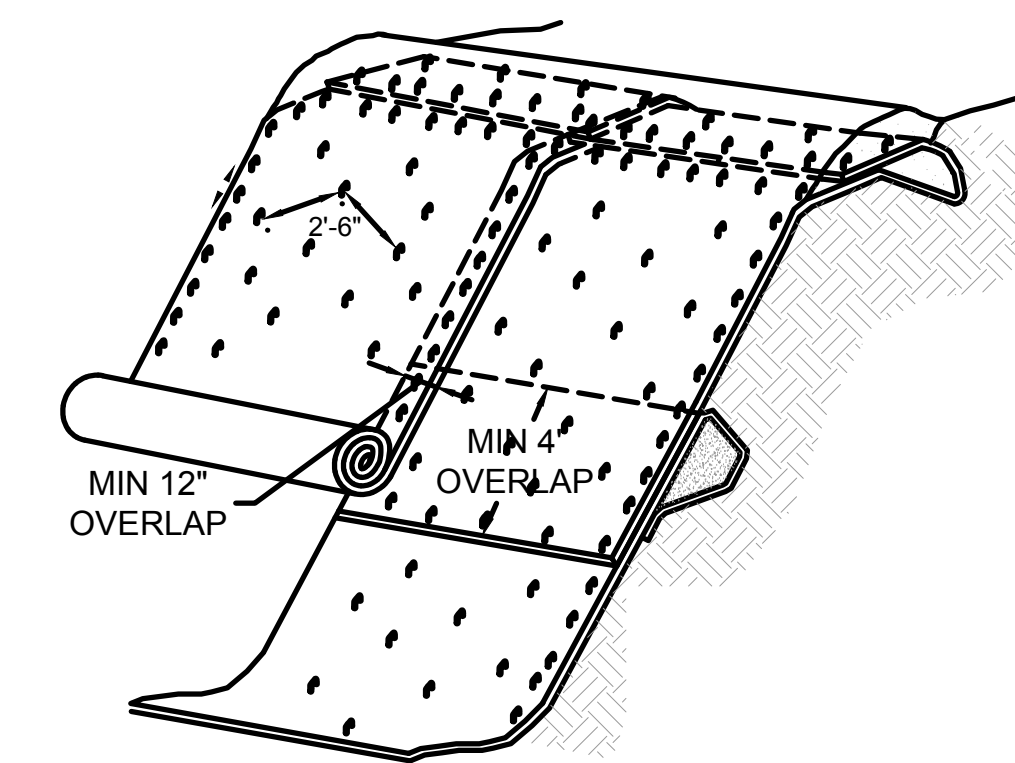
2 4-INCH CONTAINER PLANTING  
SCALE: NTS



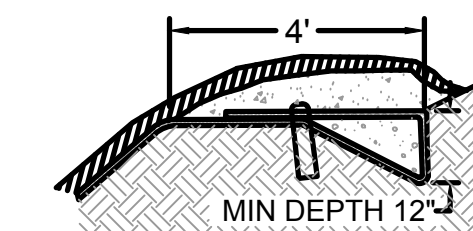
3 1 AND 5 GALLON PLANTING  
SCALE: NTS



4 TREE AND SHRUB PLANTING ON SLOPE DETAIL - SECTION  
SCALE: NOT TO SCALE



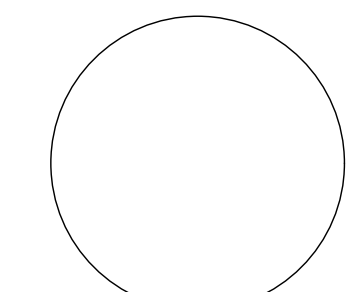
JUTE FABRIC INSTALLATION, TOP OF SLOPE ISOMETRIC VIEW  
NOT TO SCALE



TOP OF SLOPE ANCHOR DETAIL

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  2. LAY BLANKETS LOOSELY AND STAKE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
  3. MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
  4. INSTALL JUTE MAT OVER ENTIRE PLANTING AREA WITH SLOPE 4:1 OR STEEPER. AVOID EXISTING TREES AND EXISTING STUMPS.
  5. JUTE FABRIC SHALL BE ROLLED IN A CONTROLLED FASHION. INSTALL 2" X 2" X 12" WOOD STAKES AS MAT IS UNROLLED. FABRIC SHALL NOT BE ALLOWED TO ROLL DOWN THE SLOPE ON ITS OWN.

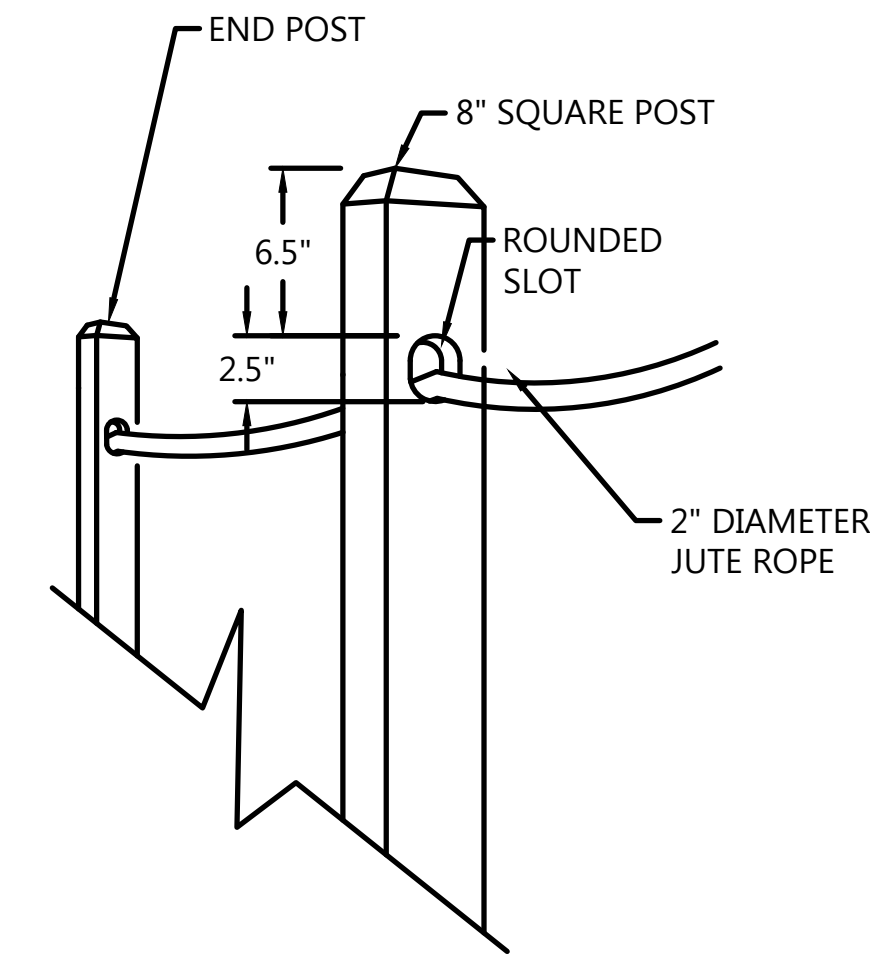
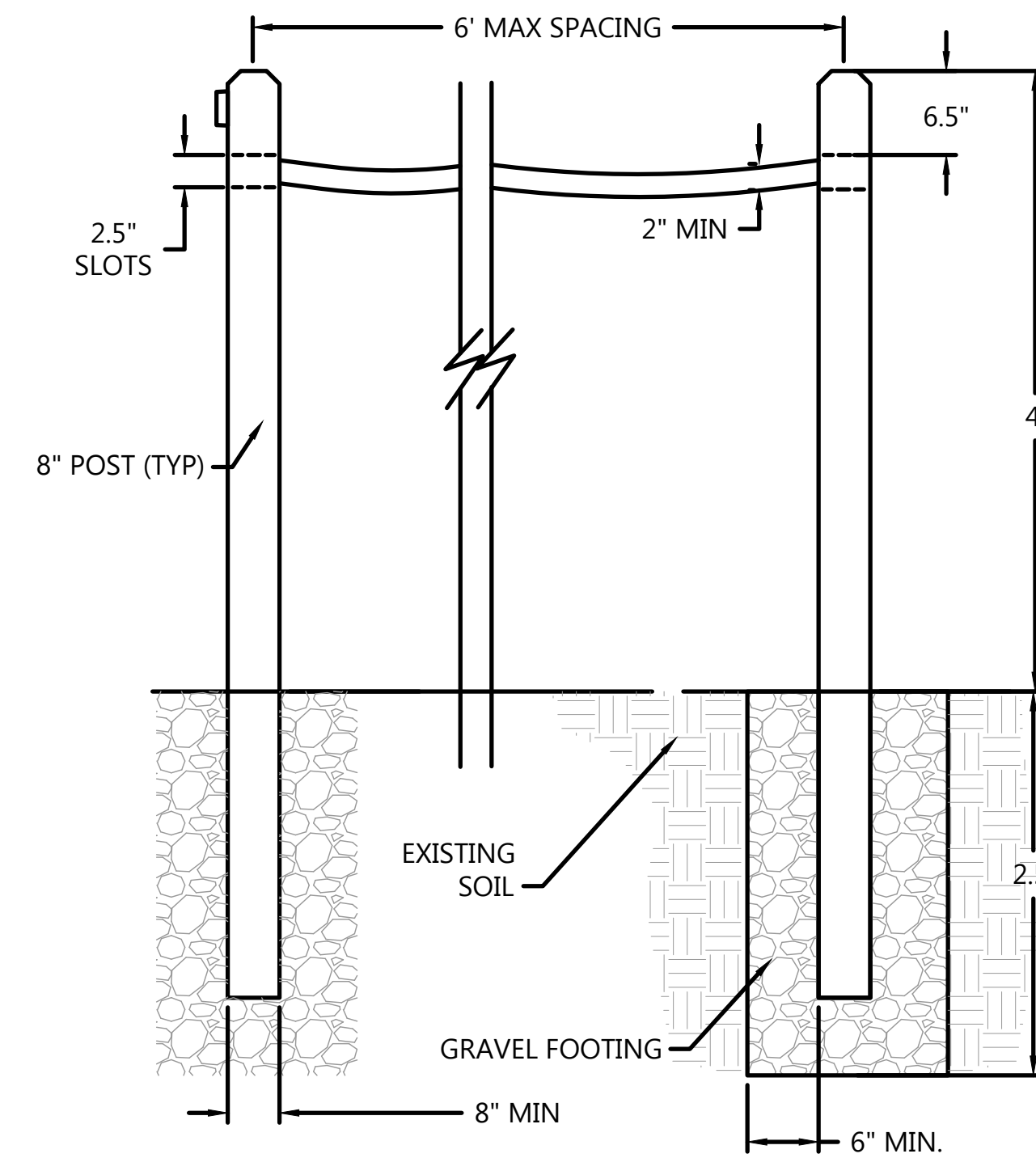
5 JUTE FABRIC SLOPE PROTECTION  
SCALE: NOT TO SCALE



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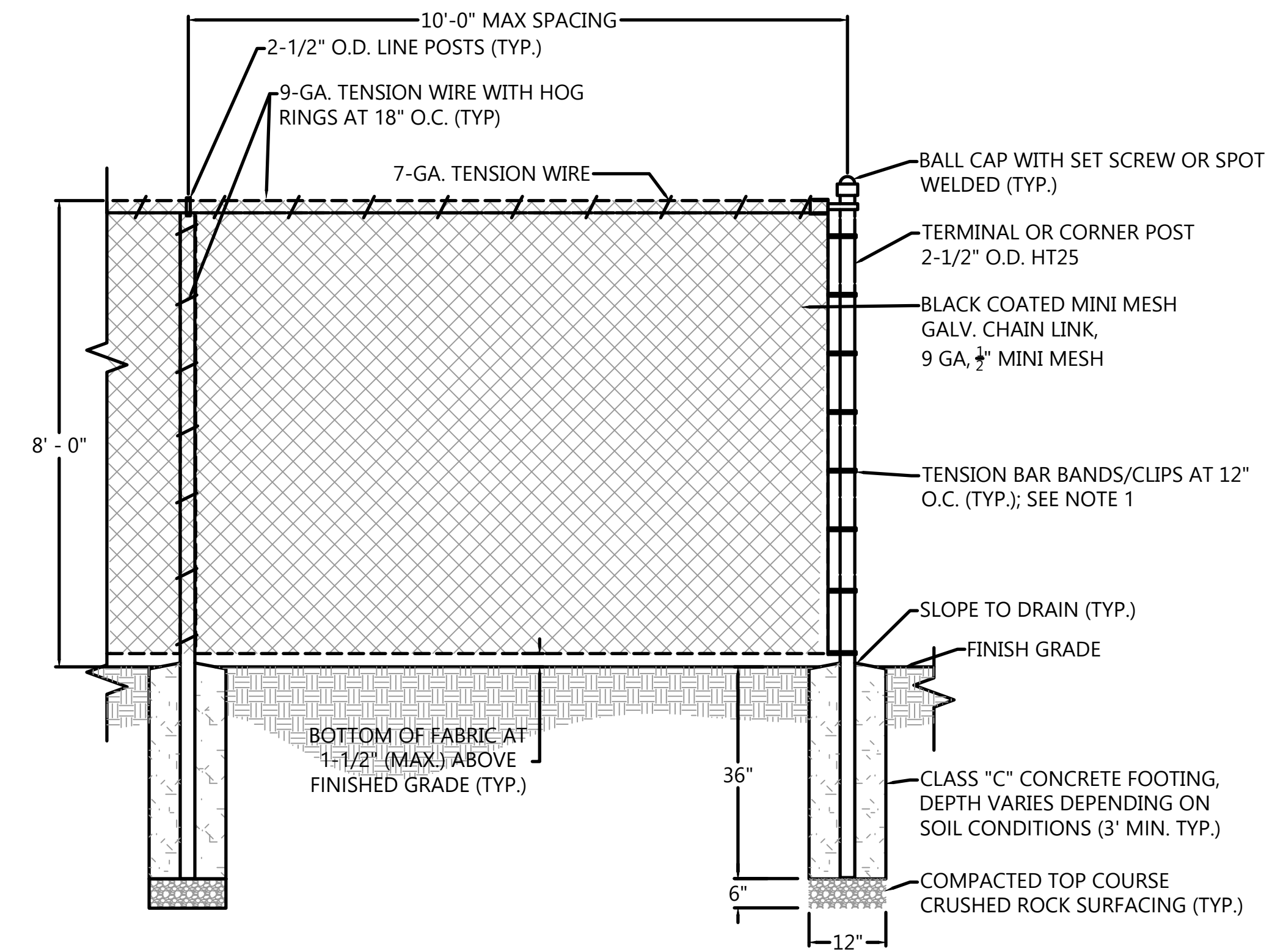
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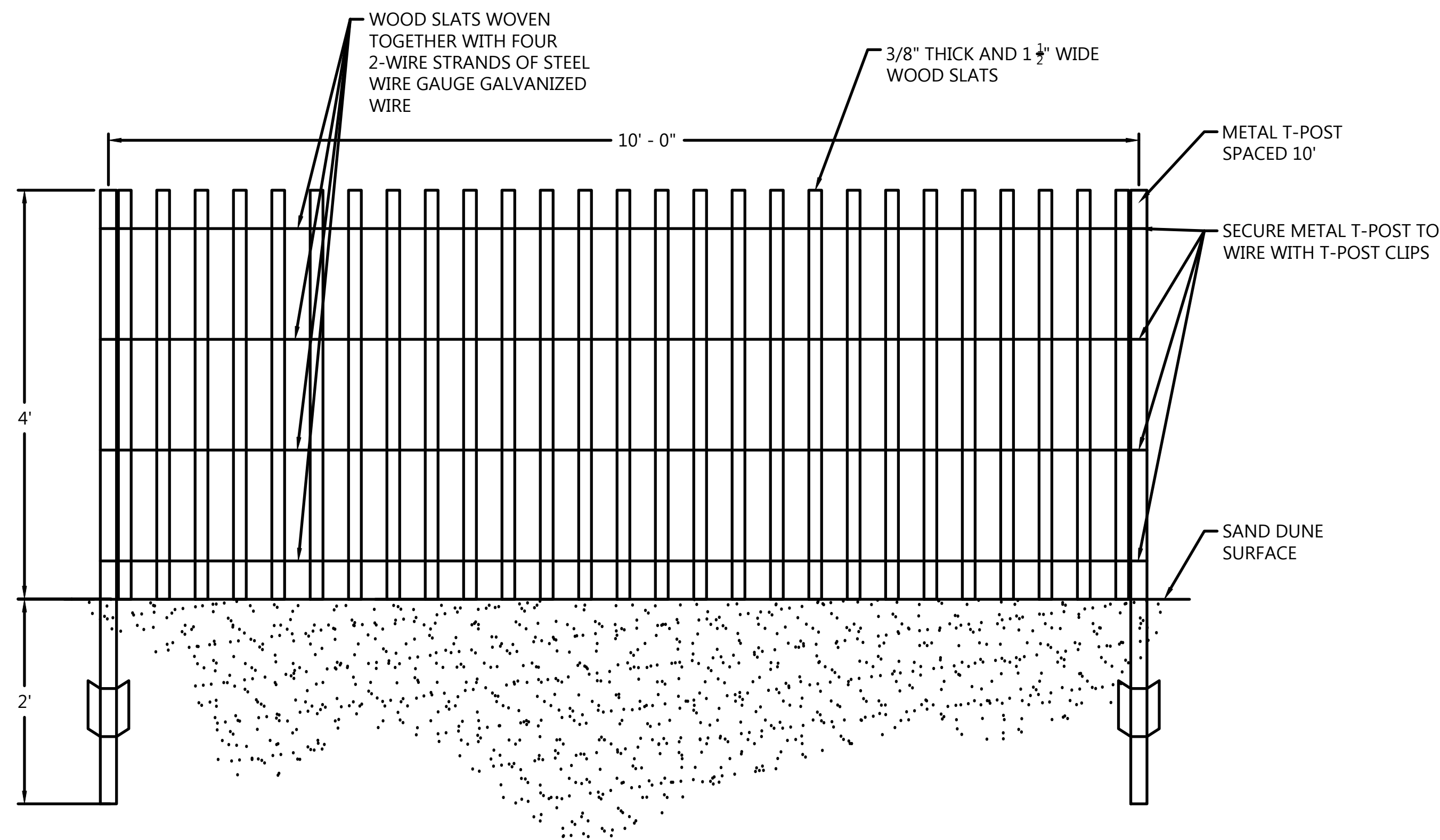
**PERSPECTIVE VIEW**

**1 WOODEN POSTS AND ROPE BARRIER**  
SCALE: NTS



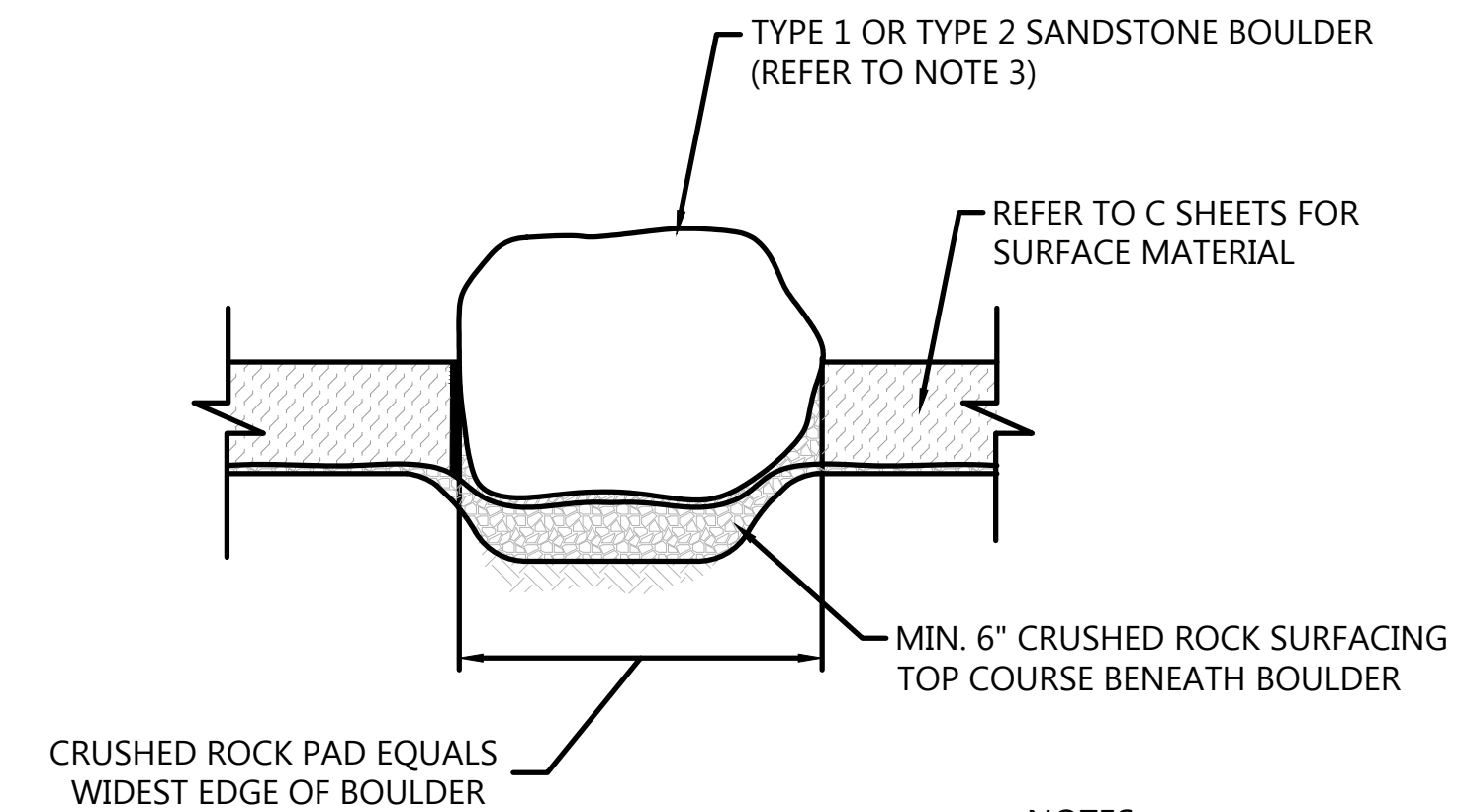
**3 EXCLUSION FENCE**  
SCALE: NTS

NOTES:  
1. INSTALL BRACES AND TRUSS RODS BETWEEN LAST TWO TERMINATING POSTS ON EITHER END OF FENCE FABRIC.



**2 WOOD LATH SAND FENCE**  
SCALE: NTS

NOTES:  
1. MAXIMUM AMOUNT OF VARIANCE BETWEEN 2 POSTS IS 6"



BOULDER SIZING TABLE		
ROCK SIZE	ROCK WEIGHT (LBS)	AVERAGE DIMENSION (IN)
TYPE 1	50-200	12-18
TYPE 2	200-700	18-28

**4 SANDSTONE BOULDER**  
SCALE: NTS

NOTES:  
1. ADJACENT SURFACE CONDITIONS VARY. REFER TO C SHEETS.  
2. ALL SALVAGED BOULDERS SHALL BE OWNER-APPROVED PRIOR TO INSTALL.  
3. INSTALL 5 CLUSTERS OF BOULDERS WITH (2) ONE-MAN AND (3) TWO-MAN BOULDERS EACH.  
4. REFER TO BOULDER SIZING TABLE FOR WEIGHT AND DIMENSIONS.



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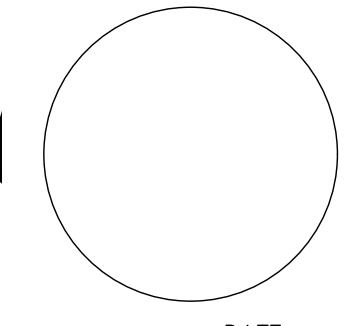
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ANDRÉE CLARK BIRD REFUGE  
**COASTAL RESTORATION**  
LANDSCAPE DETAILS



PROPERTY LINES ARE APPROXIMATE



PBW. NO. \_\_\_\_\_  
BID NO. \_\_\_\_\_ SHT. DES. \_\_\_\_\_  
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SHT. 53 OF 53

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