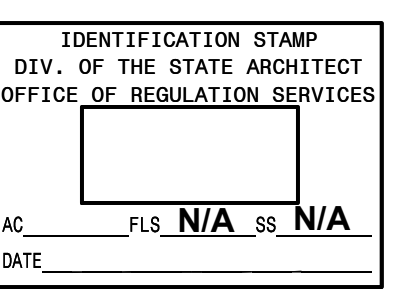


Consultant

Stamp



OFFICE OF STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of plans shall be available on the project site at all times.
Reviewed by _____
Date: _____

Printing Date
CONCEPT VERIFICATION - REV. SEPT. 4, 2013
100% SCHEMATIC DESIGN - FEB 21, 2014

Revisions Date

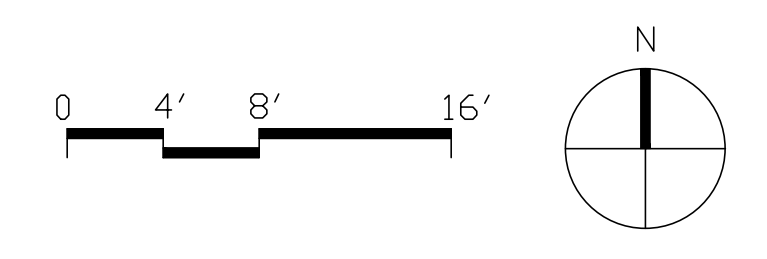
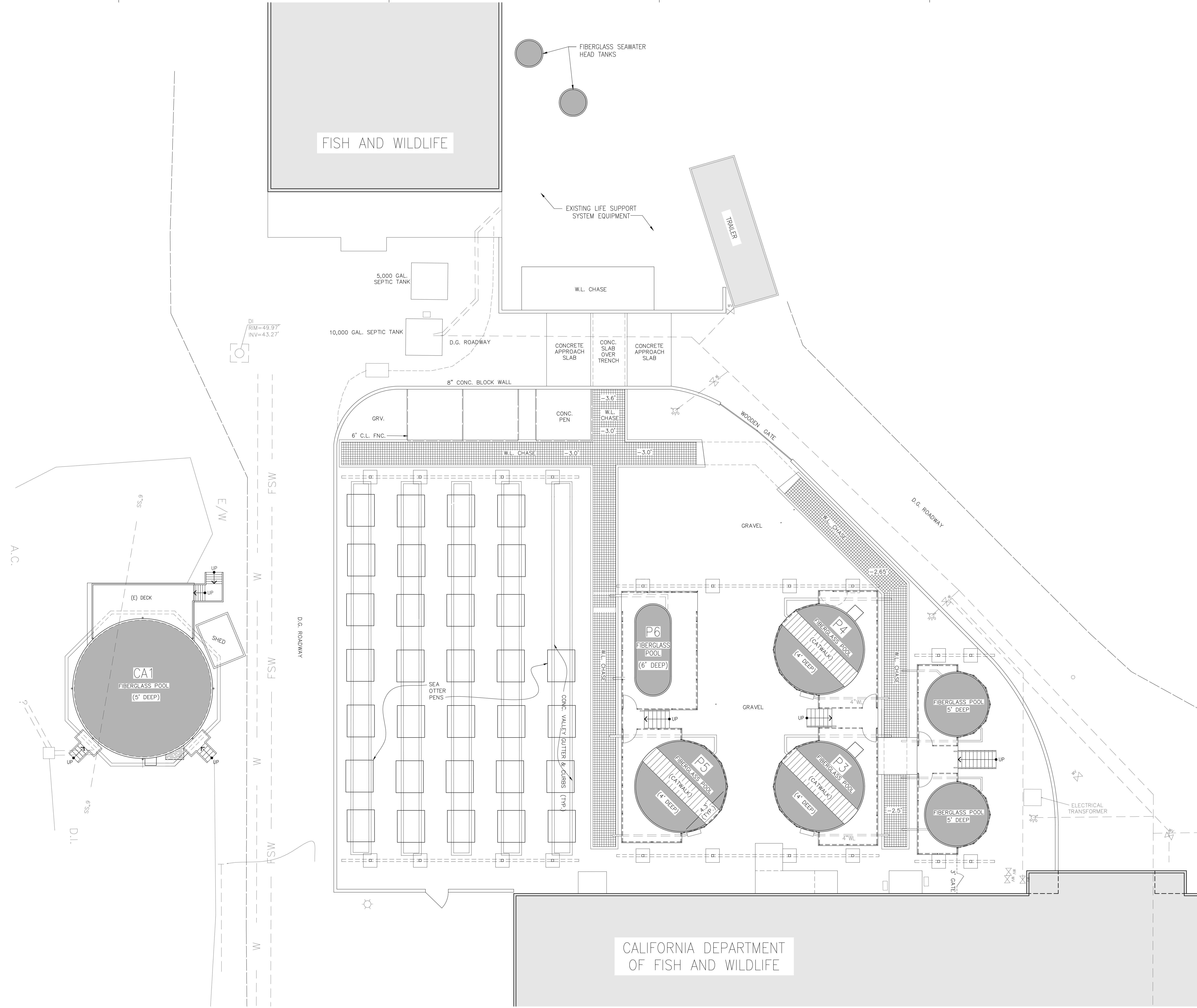
CAD File Name

Scale
1/8"=1'-0"
Drawn by

UCSC Job Number
4934
EHDD Job Number
12025
Sheet Title

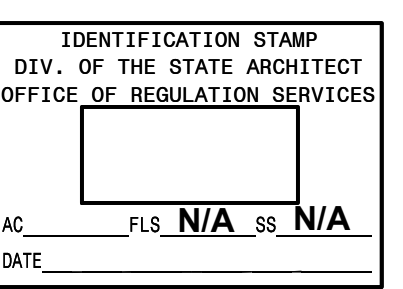
**EXISTING SITE
PLAN -
FISH AND
WILDLIFE**

Sheet Number
A0.01



Consultant

Stamp



OFFICE OF STATE FIRE MARSHAL
APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of plans shall be available on the project site at all times.

Reviewed by _____
Date: _____

Printing Date
CONCEPT VERIFICATION - REV. SEPT. 4, 2013
100% SCHEMATIC DESIGN - FEB 21, 2014

Revisions Date

CAD File Name

Scale
1/8"=1'-0"
Drawn by

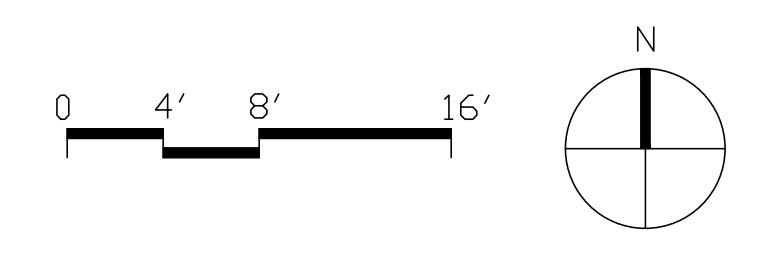
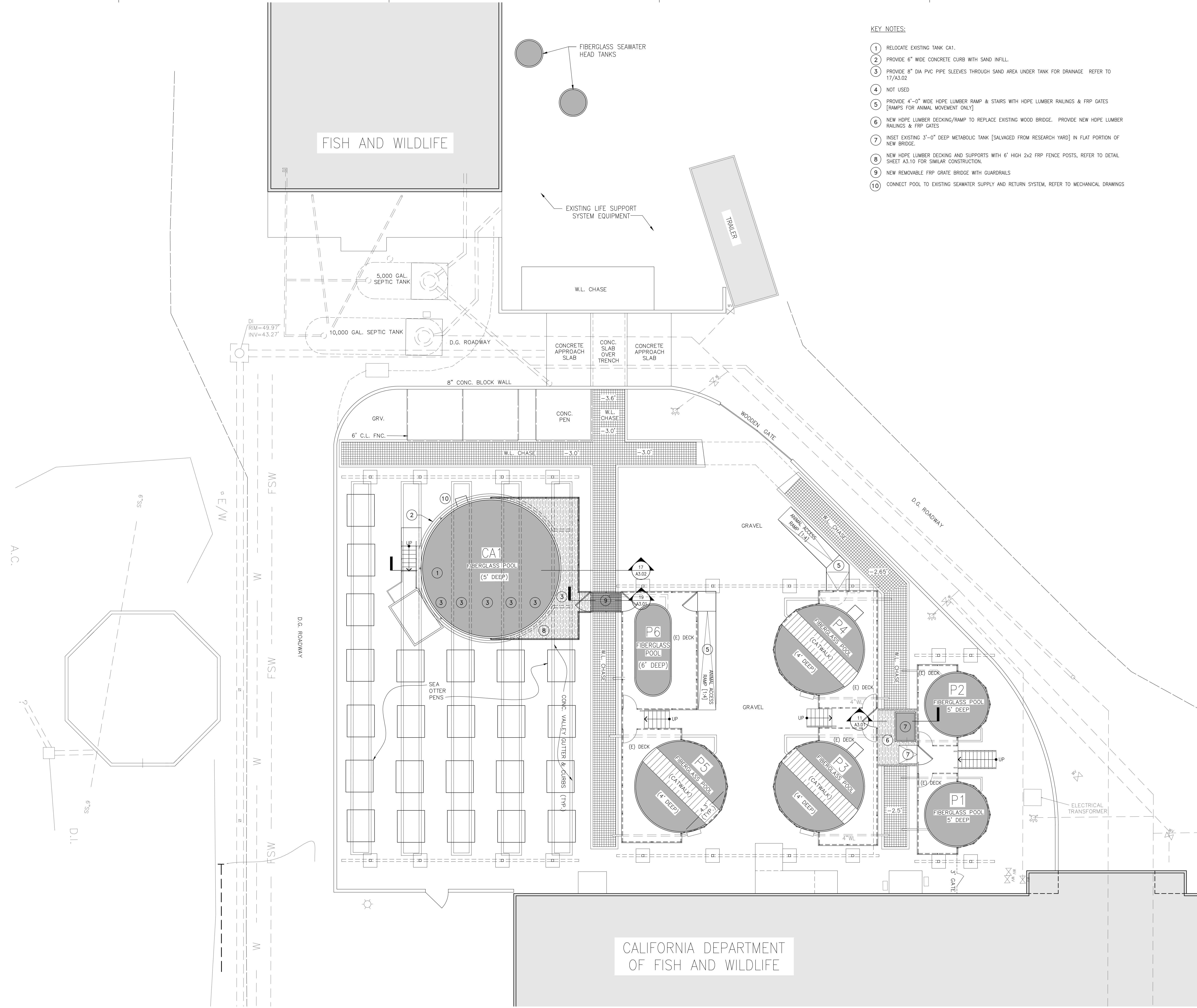
UCSC Job Number
4934
EHDD Job Number
12025
Sheet Title

**NEW SITE
PLAN -
FISH AND
WILDLIFE**

Sheet Number
A2.00

KEY NOTES:

- 1 RELOCATE EXISTING TANK CA1.
- 2 PROVIDE 6" WIDE CONCRETE CURB WITH SAND INFILL.
- 3 PROVIDE 8" DIA PVC PIPE SLEEVES THROUGH SAND AREA UNDER TANK FOR DRAINAGE REFER TO 17/A3.02
- 4 NOT USED
- 5 PROVIDE 4"-0" WIDE HDPE LUMBER RAMP & STAIRS WITH HDPE LUMBER RAILINGS & FRP GATES [RAMPS FOR ANIMAL MOVEMENT ONLY]
- 6 NEW HDPE LUMBER DECKING/RAMP TO REPLACE EXISTING WOOD BRIDGE. PROVIDE NEW HDPE LUMBER RAILINGS & FRP GATES
- 7 INSET EXISTING 3'-0" DEEP METABOLIC TANK [SALVAGED FROM RESEARCH YARD] IN FLAT PORTION OF NEW BRIDGE.
- 8 NEW HDPE LUMBER DECKING AND SUPPORTS WITH 6" HIGH 2x2 FRP FENCE POSTS, REFER TO DETAIL SHEET A3.10 FOR SIMILAR CONSTRUCTION.
- 9 NEW REMOVABLE FRP GRATE BRIDGE WITH GUARDRAILS
- 10 CONNECT POOL TO EXISTING SEAWATER SUPPLY AND RETURN SYSTEM, REFER TO MECHANICAL DRAWINGS



DRAWING INDEX

GENERAL

G0.00	COVER SHEET
G0.01	ABBREVIATIONS, SYMBOLS & GENERAL NOTES
G0.02	CODE SUMMARY, EXITING & ACCESSIBILITY DIAGRAMS
G1.00	LML SITE SURVEY

CIVIL

C1.00	PRELIMINARY DEMOLITION PLAN
C2.00	PRELIMINARY GRADING AND UTILITY PLAN

LANDSCAPE

L1.0	PLANTING PLAN
L1.1	PLANTING PLAN
L2.0	LANDSCAPE DETAILS, NOTES, AND LEGEND

ARCHITECTURAL

A0.01	EXISTING SITE PLAN
A1.00	LML POOL DEMO PLAN
A2.00	NEW LML POOL PLAN
A2.02	NEW LML POOL ROOF PLAN
A3.01	TANK C1 SECTIONS
A3.02	TANK C1 SECTIONS
A3.10	TANK C1 ENLARGED SECTIONS
A3.11	ENLARGED SECTIONS
A3.12	TANK PLATFORM SECTIONS
A4.00	ENLARGED PLANS

STRUCTURAL

S0.01	GENERAL NOTES
S2.00	LOWER LEVEL PLAN
S2.01	GROUND LEVEL PLAN
S2.02	SHADE PLAN
S3.01	TANK C1 SECTIONS
S3.02	TANK C1 SECTIONS
S3.10	TANK C1 ENLARGED SECTIONS
S3.11	ENLARGED SECTIONS
S3.12	TANK PLATFORM SECTIONS
S4.00	TYPICAL POOL REPAIR - (E) CONDITIONS & REPAIR DETAIL

PLUMBING

P0.01	LEGEND, SYMBOLS, GEN. NOTES & DWG LIST - POOLS
P1.01	PLUMBING PLAN - DEMO - POOLS
P2.01	PLUMBING PLAN - NEW - POOLS

LIFE SUPPORT

LS1.01	LSS PLAN - DEMO - POOLS
LS2.02	LSS PLAN - NEW - POOLS
LS5.1	SCHEDULES - POOLS
LS6.01	LIFE SUPPORT FLOW DIAGRAM - POOLS
LS6.02	LIFE SUPPORT FLOW DIAGRAM - POOLS
LS6.03	HEATING FLOW DIAGRAM - POOLS

ELECTRICAL

E6.01	SINGLE LINE DIAGRAM - POOLS
-------	-----------------------------

PROJECT VICINITY



FISH & WILDLIFE
CONSERVATION CENTER
(PHASE 1)

LONG MARINE
LABORATORY
(PHASE 2)

PROJECT TEAM

Architect:

EHDD
500 Treat Avenue #201
San Francisco, CA 94110
(415)285-9193

Civil Engineers:

**Bowman & Williams Consulting
Civil Engineers**
1011 Cedar Street
Santa Cruz, CA 95060
Phone (831) 426-3560

Structural Engineers:

Rutherford and Chekene,
55 Second Street Suite 600
San Francisco, CA 94105
(415)568-4400

Mechanical, Electrical & Plumbing Engineers:

Guttman + Blaevoet
2351 Powell Street,
San Francisco, CA 94133
(415)655-4000

Landscape Architect:

Joni L. Janecki & Associates
515 Swift Street
Santa Cruz, CA 95060
(831)423-6040

Construction Cost Estimators:

Oppenheim Lewis, Inc.
2742 17th Street,
San Francisco, CA 94110
(415)621-6067

UC Santa Cruz Long Marine Laboratory

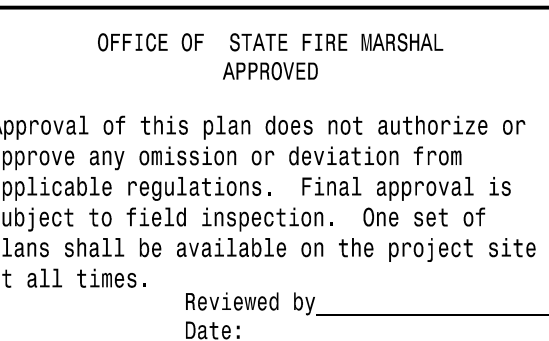
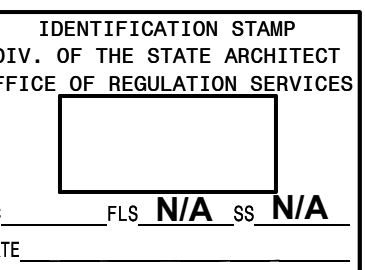
University of California,
Santa Cruz
100 Shaffer Rd.

Long Marine Laboratory Dolphin Pool Expansion Phase 2



Consultant

Stamp



Printing Date

CONCEPT VERIFICATION - REV. OCT 4, 2013
100% SCHEMATIC DESIGN - FEB 21, 2014

Revisions Date

CAD File Name

Scale

NTS

Drawn by

UCSC Job Number

4934

EHDD Job Number

12025

Sheet Title

**COVER
SHEET**

Sheet Number

G0.00

100% Schematic Design Set

Long Marine Laboratory Dolphin Pool Expansion Phase 2

**UC Santa Cruz
Long Marine
Laboratory**

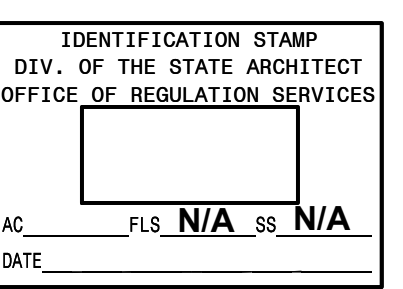
University of California,
Santa Cruz
100 Shaffer Rd.

**Long Marine Laboratory
Dolphin Pool
Expansion
Phase 2**



Consultant

Stamp



OFFICE OF STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of plans shall be available on the project site at all times.
Reviewed by: _____
Date: _____

Printing Date
CONCEPT VERIFICATION - REV OCT 4, 2013
100% SCHEMATIC DESIGN - FEB 21, 2014

Revisions Date

CAD File Name

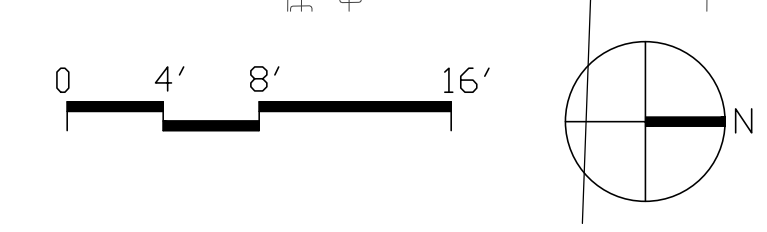
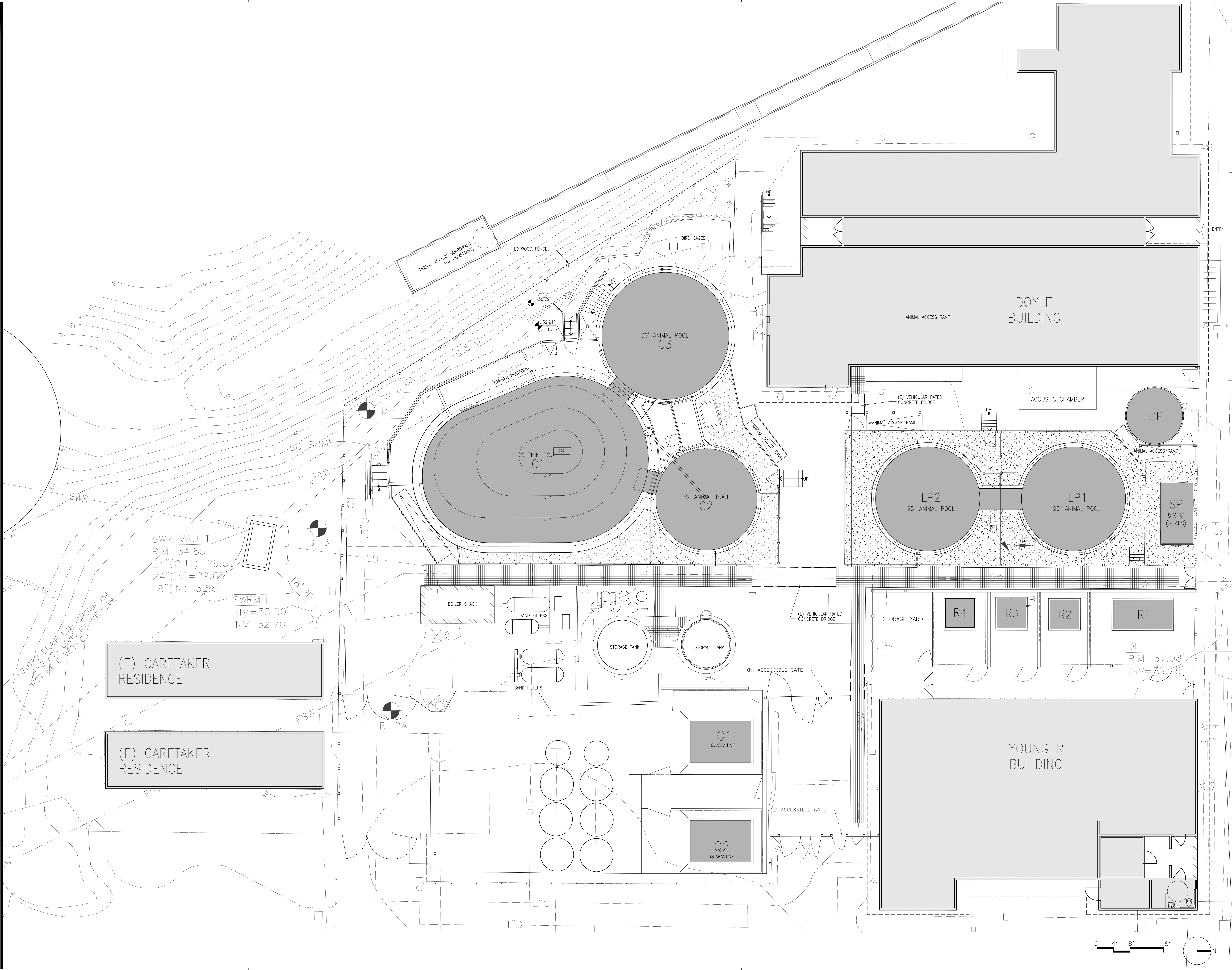
Scale
1/8"=1'-0"
Drawn by

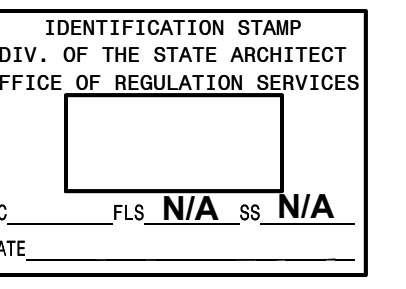
UCSC Job Number
4934
EHDD Job Number
12025
Sheet Title

**EXISTING SITE
PLAN**

Sheet Number

A0.01





OFFICE OF STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of plans shall be available on the project site at all times.
Reviewed by: _____
Date: _____

Printing Date
CONCEPT VERIFICATION - REV. OCT. 4, 2013
100% SCHEMATIC DESIGN - FEB 21, 2014

Revisions Date

CAD File Name

Scale
1/8"=1'-0"

Drawn by

UCSC Job Number
4934

EHDD Job Number
12025

Sheet Title

**NEW LML
POOL PLAN**

Sheet Number

A2.00

MAIN LEVEL KEY NOTES:

- 1 EXISTING CONCRETE POOLS: PROVIDE A MICROSLICA MORTAR/EPOXY LAMINATE AQUARIUM LINER WITH UV RESISTANT TOP COAT. [MADEWELL SYSTEM 6 OR EQUAL]. PROVIDE A MICROSLICA/THIN FILM EPOXY COATING WITH UV RESISTANT TOP COAT AT EXTERIOR WALL SURFACES [MADEWELL SYSTEM 5 OR EQUAL].
- 2 EXPANDED DOLPHIN POOL: PROVIDE AN EPOXY LAMINATE AQUARIUM LINER WITH UV RESISTANT TOP COAT. [MADEWELL SYSTEM 3 OR EQUAL]. PROVIDE A THIN FILM EPOXY COATING WITH UV RESISTANT TOP COAT AT EXTERIOR WALL SURFACES [MADEWELL SYSTEM 1 OR EQUAL].
- 3 EXPANDED TRAINER PLATFORM: RAISED CONCRETE SLAB SLOPED AS INDICATED. PROVIDE (4) LADDER ANCHOR POINTS AROUND DEEP END.
- 4 EXISTING FRP POOLS: PROVIDE AN EPOXY AQUARIUM LINER WITH UV RESISTANT TOP COAT. [MADEWELL SYSTEM 2 OR EQUAL].
- 5 PROVIDE 6'-0" HIGH UV GRADE 2x2 FIBERGLASS COMPOSITE POSTS AROUND POOL & CONCRETE TRAINER PLATFORM WITH VINYL COATED CHAIN LINK FENCE TYPICAL @ POOL C1 & C3.
- 6 NEW HDPE LUMBER DECKING AND SUPPORTS WITH 6" HIGH 2X2 FRP FENCE POSTS. THE POSTS SHALL EXTEND 8" ABOVE DECK TO PROVIDE THE FENCE STRUCTURE AT POOL C2. THE DECK IS ON AVERAGE 42" ABOVE THE RESEARCH YARD SLAB.
- 7 PROVIDE HDPE LUMBER RAMPS & OSHA STAIRS WITH 2x2 FRP RAILINGS WITH VINYL COATED CHAIN LINK INFILL. [RAMPS FOR ANIMAL MOVEMENT ONLY].
- 8 UTILITY TRENCH: PROVIDE ADA COMPLIANT 2" PULTRUDED FRP GRATING FOR A 5'-0" FREE SPAN.
- 9 REPAIR TRENCH EDGE TO ACCEPT (N) FRP GRATE, TYP. ALL (E) TRENCHES. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL NOTES.
- 10 4'-0" WIDE CONCRETE ACCESSIBLE RAMP SLOPED 2:12 WITH FIBERGLASS COMPOSITE RAILINGS AND POSTS [~ 76'-6" LONG + 3 LANDINGS].
- 11 NEW WOOD FENCE TO MATCH EXISTING 8'-0" WOOD FENCE [6x6 POST, 3x4 TOP AND BOTTOM RAILS, AND 1x6 VERTICAL WESTERN RED CEDAR FENCE BOARDS]. USE SALVAGED FENCING FROM DEMOLISHED FENCES.
- 12 (N) 6" H X 8" W CONCRETE CURB
- 13 CONNECT EXISTING UN-USED SAND FILTERS. REFER TO MECHANICAL DRAWINGS.

- 14 (N) CIRCULATION PUMP (20HP)
- 15 (N) CHLORPAC ON RETURN LINE
- 16 4"x2"x2" DRAIN WELL WITH FRP GRATE & FRP GRATE HOLD DOWNS.
- 17 ADD COUNTERCURRENT HEAT EXCHANGERS AT HEATED POOL OUTFLOWS TO PRE-HEAT MAKE-UP WATER.
- 18 NEW 8'x16'x4.25' DEEP FIBERGLASS POOL FLUSH W/ NEW DECKING
- 19 NEW HDPE LUMBER DECKING AND SUPPORTS WITH 6" HIGH HOPE FENCE POSTS. THE POSTS SHALL EXTEND 8" ABOVE DECK TO PROVIDE SUPPORT FOR SHADE CLOTH WHERE INDICATED. THE DECK IS ON AVERAGE 46" ABOVE THE RESEARCH YARD SLAB.
- 20 4" HIGH X 3/8" THICK SCRATCH RESISTANT POLYCARBONATE PANELS. WITH VINYL COATED CHAIN LINK ABOVE
- 21 (N) CONCRETE PAWING. CONFORM TO (E) AT NORTH SIDE
- 22 EXTRUDED CELLULAR PVC WALL PANELS APPLIED TO INTERIOR FACE OF FENCE POSTS WITH ST. STL. FASTENERS. PANELS SHALL BE INSTALLED HORIZONTALLY TO MINIMIZE VERTICAL SEAMS. PROVIDE AN INTERMEDIATE VERTICAL SUPPORT EVERY 3' MAX O.C. PANELS SHALL BE EXTRUTECH P2400 PANELS OR EQUAL.
- 23 (N) WOOD FENCE WITH NEW HDPE POSTS AND CROSS-MEMBERS & (N) 1x6 CEDAR FENCE BOARDS.
- 24 NEW TRENCH DRAIN TO SEDIMENT VAULT
- 25 NEW ACCESSIBLE GATE & HARDWARE
- 26 REMOVE (E) WINDOWS FOR POOL LINER INSTALLATION & REINSTALL.
- 27 INSTALL (E) METABOLIC TANK, INSET IN DECK FOR FLUSH FRP PLANK COVER.
- 28 REMOVE CONSTRUCTION ACCESS ROAD AND BUILD NEW SWALE. NEW INFILTRATION BASIN.

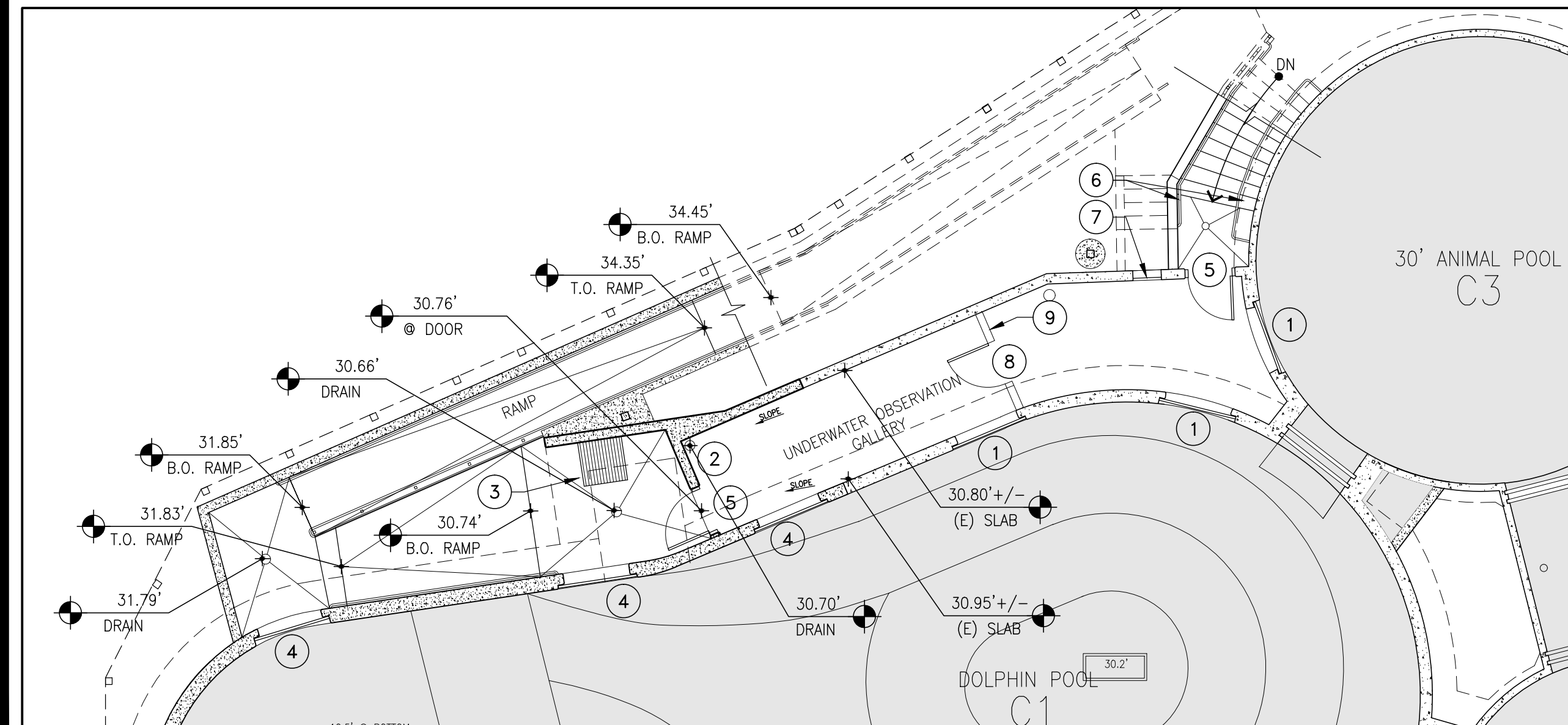
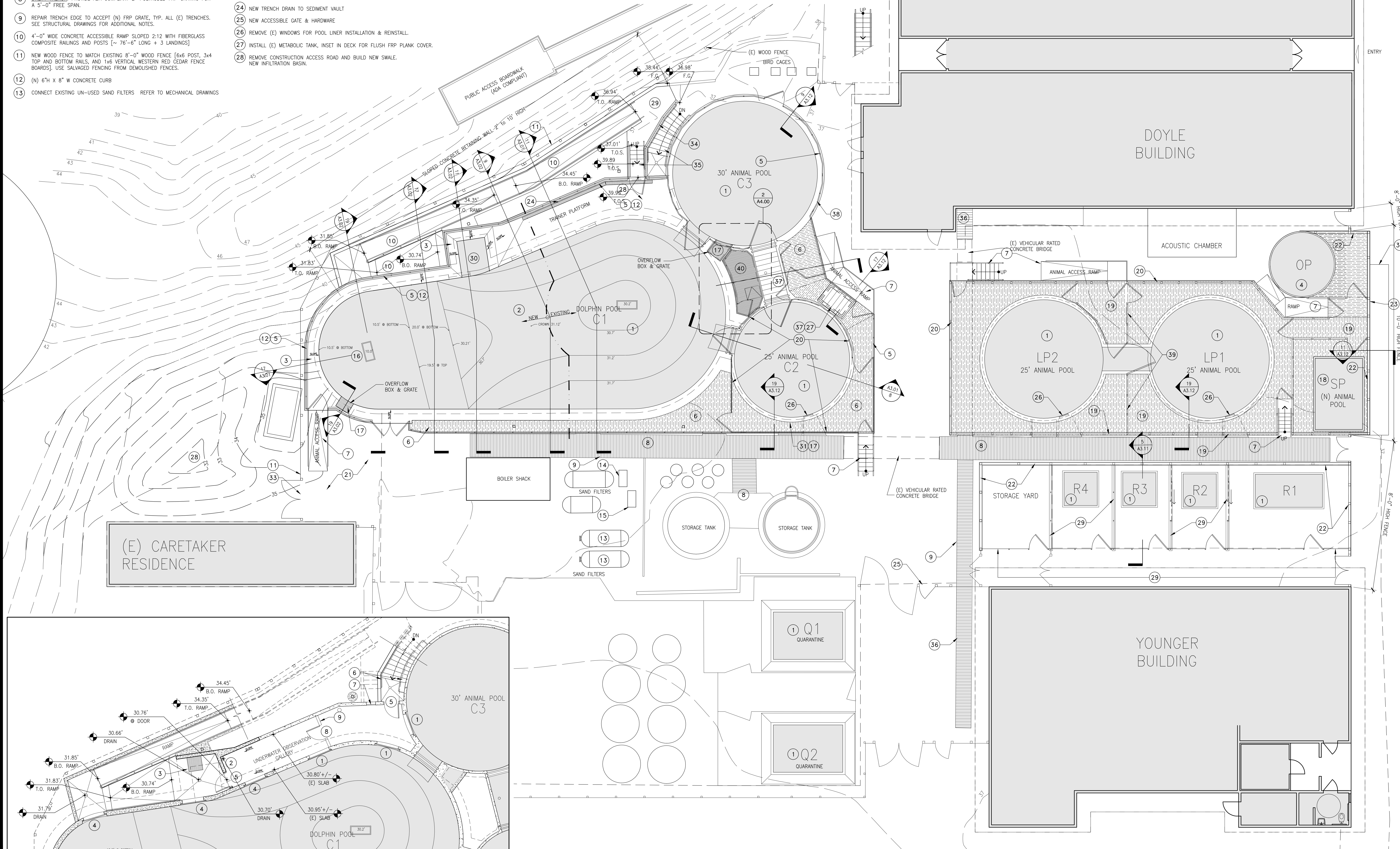
- 29 NEW CONCRETE PAVING. CONFORM TO (E) GRADE AT NORTHWEST EDGE.
- 30 8'x6' SHALLOW WATER SLIDE OUT RAMP
- 31 (N) FRP HEAT EXCHANGER BOX ATTACHED TO (E) OVERFLOW PIPE
- 32 NEW PLANTING STRIP. SEE LANDSCAPE DRAWINGS.
- 33 NEW EXTENSION OF CONCRETE SLAB TO NEW GATE.
- 34 INSTALL (N) FRP GUARDRAIL WITH ROUND FRP PICKETS AT 4" O.C. MAX.
- 35 REVISE (E) STEPS TO PROVIDE LANDING & 11" TREADS & 7" MAX RISE & PROVIDE (N) FRP HANDRAIL BOTH SIDES OF STAIR.
- 36 UTILITY TRENCH PROVIDE ADA COMPLIANT 1-1/2" PULTRUDED FRP GRATE FOR A 3'-0" FREE SPAN
- 37 (N) 2" DEEP SECTIONAL FRP PLANK COVER SET FLUSH TO DECK STRONGWELL SAFPLANK OR EQ.
- 38 8' WIDE REMOVABLE FENCE SECTION
- 39 4" HIGH PVC SIM TO NOTE 22 WITH CHAINLINK ABOVE
- 40 2" DEEP SOLID SURFACE FRP GRATE

LOWER LEVEL KEY NOTES:

- 1 REPLACE (E) WINDOWS IN KIND PER 1985 DRAWING DETAILS ON SS.
- 2 PROVIDE NEW END WALL TO GALLERY AND EXTEND CONCRETE TRAINER PLATFORM OVER BOTTOM OF RAMP LANDING
- 3 PROVIDE 3' WIDE X 3' DEEP SUMP PIT WITH ADA FRP GRATING.
- 4 4'-6" SQ. X 2" THICK ACRYLIC WINDOW
- 5 INSTALL (N) FRP DOOR FRAME AND SALVAGED FRP DOOR W/ (N) LEVER LOCKSET
- 6 INSTALL (N) FRP HANDRAILS AT STAIR.
- 7 REPAIR GRILLE AT (E) OPENING BENEATH STAIR.
- 8 NEW FRP DOOR AND FRAME
- 9 NEW W.R. CYP. BD. WALL ON 6" CONCRETE CURB

GENERAL NOTES:

1. ALL NEW PULTRUDED FRP RAILINGS, FENCE POSTS, ETC. TO BE SANDED WITH 60 GRIT SANDPAPER PRIOR TO ASSEMBLY & INSTALLATION. AFTER INSTALLATION, BUT PRIOR TO ATTACHMENT OF OTHER MATERIALS, APPLY ONE COAT THEMEC SERIES 27WB & ONE COAT THEMEC SERIES 750UVX BY SPRAY APPLICATION. (E) FRP RAILINGS @ STAIRS BY TRAINER PLATFORM SHALL BE SIMILARLY TREATED IN PLACE.



1 GROUND LEVEL PLAN
1/8"=1'-0"

2 LOWER LEVEL PLAN
1/8"=1'-0"

