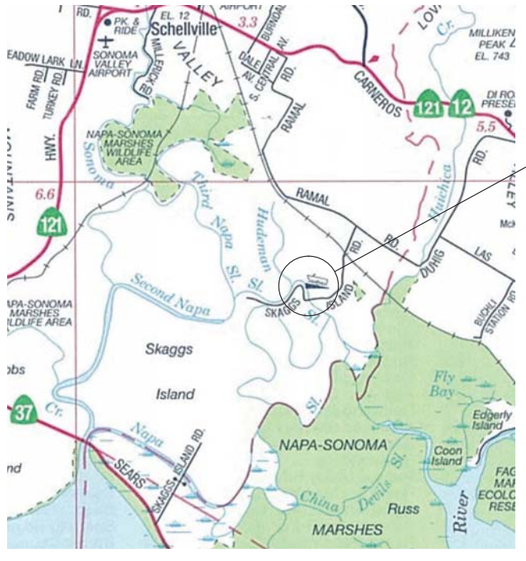
HUDEMAN SLOUGH RECREATION AREA
SONOMA COUNTY, CALIFORNIA

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT #140368

50% SUBMITTAL
SEPTEMBER 26, 2014




1/1 VICINITY MAP
SCALE: 1" = 1 MILE

2/1 AERIAL SITE MAP
SCALE: 1" = 60'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

TITLE SHEET

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

| | |
|---|---|
| DRAWN BY : | NAV |
| CHECKED BY : | SMN |
| JOB NO. : | 140368 |
| DATE : | SEPTEMBER 26, 2014 |


SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
SUITE 120A
SANTA ROSA, CA 95403
(707) 565-2041
(707) 579-8247 FAX


SHEET TITLE

SHEET NO.

T1

1 OF 19 SHEETS

| SHEET LIST | | |
|---|---|---|
| SHEET NUMBER | DRAWING NUMBER | SHEET TITLE |
| 1 | T1 | TITLE SHEET |
| 2 | G1 | SHEET LIST, ABBREVIATIONS & NOTES |
| 3 | G2 | 1962 LAUNCH RAMP PLAN & DETAILS |
| 4 | G3 | 1962 LAUNCH RAMP PLAN & DETAILS |
| 5 | G4 | BORING LOGS |
| 6 | C1 | EXISTING CONDITIONS |
| 7 | C2 | DEMOLITION PLAN |
| 8 | C3 | PROJECT PLAN |
| 9 | C4 | LAUNCH RAMP FOUNDATION PLAN |
| 10 | C5 | LAUNCH RAMP PANEL PLAN |
| 11 | C6 | DOCK PLAN |
| 12 | C7 | RESTROOM & ACCESS RAMP PLAN |
| 13 | C8 | PAVING PLAN |
| 14 | C9 | SECTIONS |
| 15 | C10 | SECTIONS |
| 16 | C11 | DETAILS |
| 17 | C12 | LOW FREEBOARD DOCK PLAN |
| 18 | L1 | CAMPGROUND PLAN |
| 19 | L2 | CAMPGROUND DETAILS |

## NOTES:

BENCHMARK: BEING CORS STATION P200 AS SHOWN ON THE CITY OF NAPA CONTROL NETWORK. ELEVATION 23.614 NAVD88.

## TIDAL INFORMATION:

NOAA TIDAL STATION:

SKAGGS ISLAND, HUDEMAN SLOUGH, ID#9415438

| | |
|---|---|
| MHHW | 5.71 |
| MHW | 5.17 |
| MSL | 2.86 |
| MTL | 2.84 |
| MLW | 0.50 |
| NAVD88 | 0.00 |
| MLLW | −0.31 |

## SURVEY & SURVEY CONTROL:

SURVEY PERFORMED BY:

CINQUINI & PASSARINO, INC.
1360 N. DUTTON AVE. #150
SANTA ROSA, CA 95401
(707) 542−6268
WWW.CINQUINIPASSARINO.COM
JOB# 6516−12
MAY 2, 2013

SURVEY CONTROL:

BENCHMARK CORS STATION P200 AS SHOWN ON THE CITY OF NAPA CONTROL NETWORK. ELEVATION 23.614 NAVD88
HORIZONTAL CONTROL: NAD83 ZONE 2

## GEOTECHNICAL INVESTIGATION PERFORMED BY:

KLEINFELDER WEST, INC.
2240 NORTHPOINT PARKWAY,
SANTA ROSA, CA 95407
(707) 571−1883
WWW.KLEINFELDER.COM
FILE# 132413
MARCH 15, 2013

## ABBREVIATIONS:

| | |
|---|---|
| AC | ASPHALT CONCRETE |
| CIP | CAST IN PLACE |
| LF | LINEAR FEET |
| MHHW | MEAN HIGHER HIGH WATER |
| MHW | MEAN HIGH WATER |
| MLLW | MEAN LOWER LOW WATER |
| MLW | MEAN LOWER WATER |
| MSL | MEAN SEA LEVEL |
| NAVD88 | NORTH AMERICAN VERTICAL DATUM 1988 |
| SF | SQUARE FEET |

## PROJECT DESCRIPTION:

1. DEMOLITION
   - A. EXISTING PILES
   - B. EXISTING LAUNCH RAMP
   - C. EXISTING DOCKS
   - D. CLEAR AND GRUB
   - E. ASPHALT PARKING LOT
   - F. SEDIMENT BUILDUP ON RAMP
2. FABRICATION
   - A. DOCKS, 3−6'x20' SECTIONS, 360 SF
   - B. 3.5'x30' ALUMINUM GANGWAY
   - C. CONCRETE PANELS FOR LAUNCH RAMP
   - D. PILES
3. INSTALLATION
   - A. NEW DOCKS
   - B. NEW GANGWAY
   - C. NEW CONCRETE PANELS FOR LAUNCH RAMP, 2400 SF
   - D. NEW PILES
   - E. BATHROOM HOLDING TANKS
   - F. KAYACCESS DOCK
4. CONSTRUCTION
   - A. BATHROOM FOUNDATION & RETAINING WALL
   - B. ADA ACCESSIBLE PATH
   - C. EXPAND PARKING LOT, 1320 SF
   - D. RE−PAVE PARKING LOT
   - E. STRIPE PARKING LOT
   - F. CAMPGROUND
5. SIGNAGE

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

SHEET LIST, ABBREVIATIONS & NOTES

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

DRAWN BY : NAV

CHECKED BY : SWN

JOB NO. : 140368

DATE : September 26, 2014

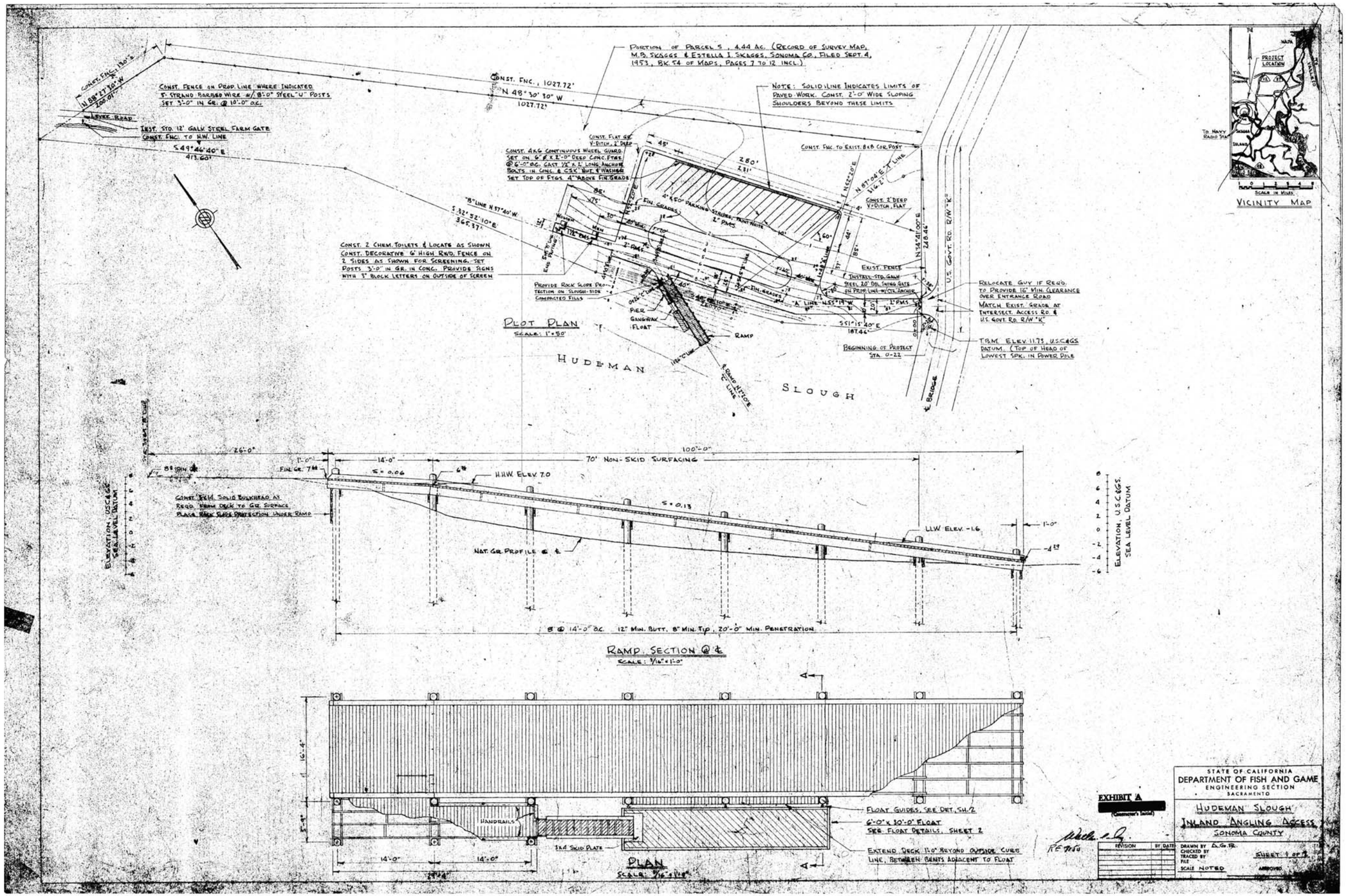
SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
SUITE 120A
SANTA ROSA, CA 95403
(707) 565−2041
(707) 579−8247 FAX

SHEET TITLE

SHEET NO.

G1

2 OF 19 SHEETS




1/3 1962 LAUNCH RAMP PLANS

SCALE: NO SCALE

NOTES:

1. ORIGINAL LAUNCH RAMP CONSTRUCTION DRAWINGS, 1962. SHEETS 1& 2 OF 2 AND PROVIDED AS SHEETS G2 & G3
2. EXISTING, 2013, DETAILS MAY BE DIFFERENT.
3. ACCESS DOCK WAS REPLACED IN 1988.

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

## 1962 Llaunch ramp plan & details

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

DRAWN BY : NAV

CHECKED BY : SMN

JOB NO. : 140368

DATE : APRIL 1, 2014

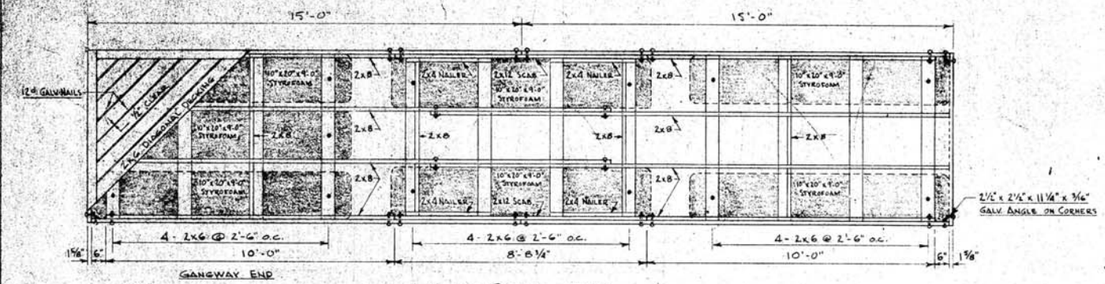
SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
SUITE 120A
SANTA ROSA, CA 95403
(707) 565-2041
(707) 579-8247 FAX

SHEET TITLE

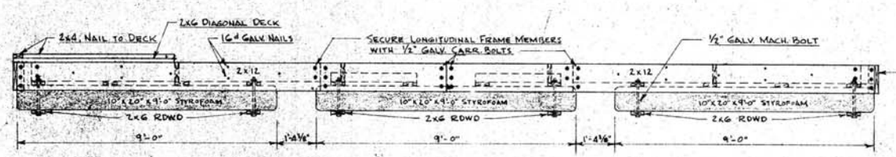
SHEET NO.

G2

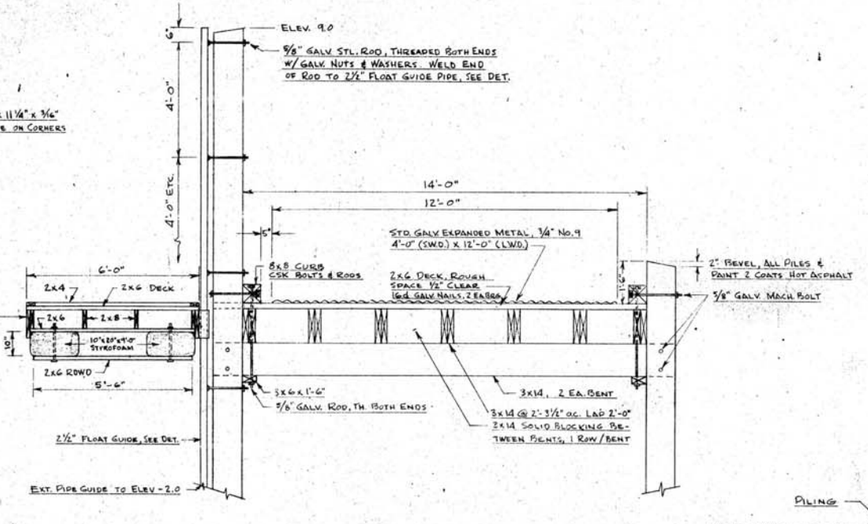
3 OF 19 SHEETS



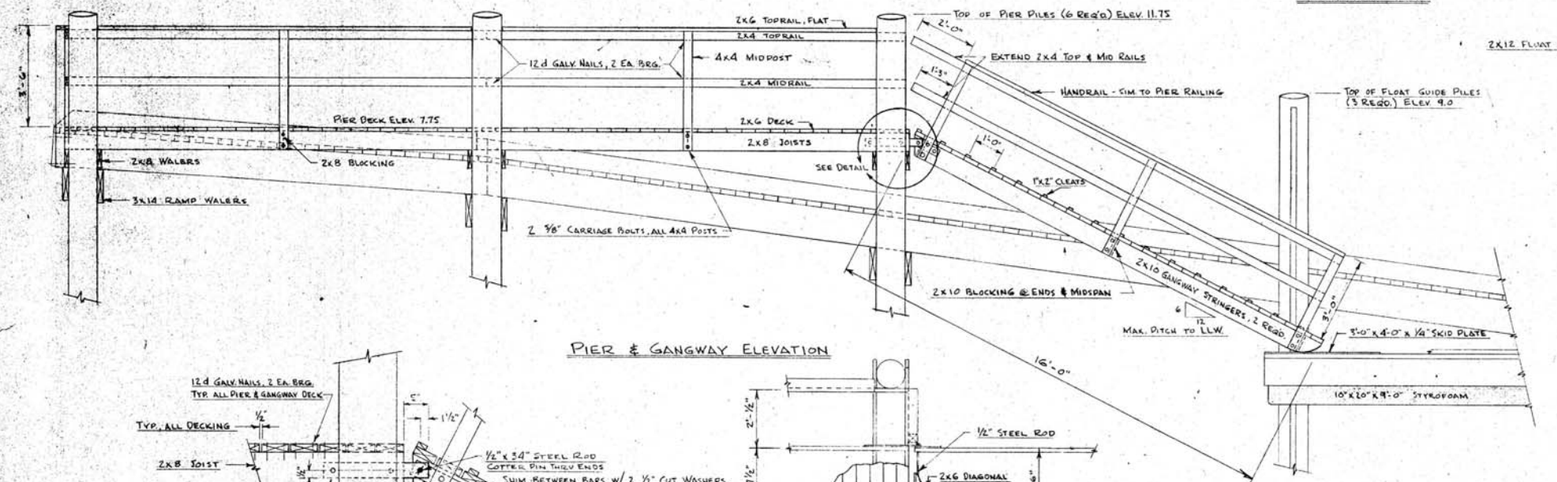

FLOAT FRAME - PLAN



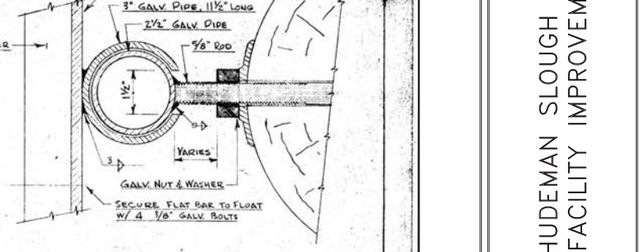

FLOAT ELEVATION



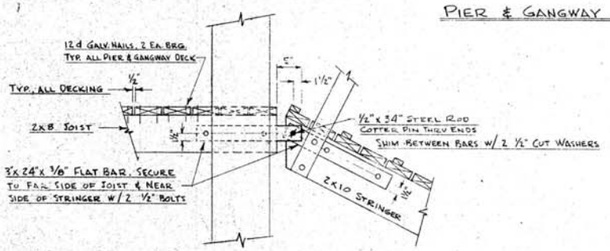

SECTION A-A



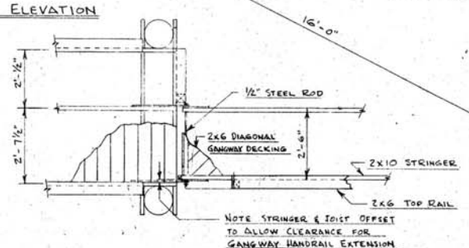

PIER & GANGWAY ELEVATION




FLOAT GUIDE DETAIL - SECTION
SCALE: ½" = 1"




HINGE DETAIL
SCALE: 1" = 1'-0"




PLAN VIEW, END OF PIER

STATE OF CALIFORNIA
DEPARTMENT OF FISH AND GAME
ENGINEERING SECTION
SACRAMENTO

HUDEMAN SLOUGH
INLAND ANGLING ACCESS
SONOMA COUNTY

| REVISION | BY | DATE |
|---|---|---|
| | | |

DRAWN BY A.G.R.
CHECKED BY
TRACED BY
FILE
SCALE ½" = 1'-0" OR NOTED
APPROVED
SHEET 2 OF 2

3-27-62

NOTES:

1. ORIGINAL LAUNCH RAMP CONSTRUCTION DRAWINGS, 1962. SHEETS 1& 2 OF 2 AND PROVIDED AS SHEETS G2 & G3
2. EXISTING, 2013, DETAILS MAY BE DIFFERENT.
3. ACCESS DOCK WAS REPLACED IN 1988.

1/4 1962 LAUNCH RAMP PLAN
SCALE: NO SCALE

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

1962 LAUNCH RAMP PLAN & DETAILS

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

| | |
|---|---|
| DRAWN BY : | NAV |
| CHECKED BY : | SMN |
| JOB NO. : | 140368 |
| DATE : | APRIL 1, 2014 |

SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
SUITE 120A
SANTA ROSA, CA 95403
(707) 565-2041
(707) 579-8247 FAX

SHEET TITLE

SHEET NO.

G3

4 OF 19 SHEETS

| Boring Number: K-1 | Location: Adjacent to existing ramp | Drilling Method: Hollow-stem auger |
|---|---|---|
| Boring Total Depth: 50.5 ft | Coordinates (X/Y, Lat/Long): 38.2063° / -122.37544° | Drilling Equipment: Mobile B-53 |
| Depth to Rock: *No Rock* was Encountered. | Datum/Coordinate System: | Drilling Company: Pearson Drilling |
| Date Begin/End: 02-15-13 / 02-15-13 | Top of Boring Elevation: 7.0 ft | Bit Size/Type: 8-inch / HSA |
| Surface Conditions: Asphalt Concrete | Coordinate Data Source: Google Earth | Hammer Type/Method: Automatic |
| WL Measurement Point: Ground Surface | Depth to Groundwater Initial/Time: 36.0 ft / 0 hrs after | Hammer Drop/Weight: 30 in. / 140 lbs. |
| Logged By: J. Richmond | Depth to Groundwater Final/Time: 13.3 ft / 0.1 hrs after | Angle From Horizontal/Bearing: -90° |

Field Soil Description & Classification — Laboratory

*The report and log key are an integral part of these logs. All data and interpretations in this log are subject to those stated explanations and limitations.*

| Depth (ft) | Elevation (ft) | Sample Type Symbol | Sample Number | Blows per 6 in. | Pocket Pen. (tsf) | Graphic Log | ASTM Symbol | Description | Consistency / Apparent Density | Plasticity | Plasticity Index | Liquid Limit | Water Content (%) | Dry Unit Weight (pcf) | Passing #4 Sieve (%) | Passing #200 Sieve (%) | Other Tests and Field Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | AC | **ASPHALT CONCRETE (5.0 inches thick)** | | | | | | | | | |
| | | | | | | | GP | **POORLY GRADED GRAVEL with SILT and SAND (GP-GM)** brown, dry, loose, fine to medium grained sand, subrounded gravel up to 0.75" (Aggregate Base) | L | | | | | | | | |
| | | | | | | | SP | **POORLY GRADED SAND with GRAVEL (SP)** dark brown, moist, loose, fine to coarse grained sand, subrounded gravel up to 0.5" (Fill) | L | | | | | | | | |
| | | | 1 | 2<br>2<br>2 | | | CH | **FAT CLAY (CH)** brown, olive brown, wet, very soft, abundant reeds and wood fragments (Marsh Deposit) | S | | | | | | | | Composite Rv-value test with K-2 (0'-3') |
| 5 | -1.0 | | 2 | 1<br>1<br>1 | | | CH | **FAT CLAY (CH)** gray to gray bue, wet, very soft, abundant reeds (Bay Mud) | S | | | | | | | | Material saturated at 3.5 ft. |
| | | | | | | | | | | | | | | | | | Su(TV) = 0.175 tsf |
| 10 | -6.0 | | 3 | 1<br>1<br>1 | | | | matted organics | | | | | | | | | Su(TV) = 0.20 tsf |
| 15 | -11.0 | | 4 | 1<br>0<br>0 | | | | light gray blue decreased organics | | | 71 | 103 | 84 | 52 | | | Su(TV) = 0.20 tsf |
| 20 | -16.0 | | 5 | 1<br>1<br>0 | | | | | | | | | | | | | Su(TV) = 0.20 tsf |

K-2

KLEINFELDER — Bright People. Right Solutions.

| Project Number: 132413 | BORING LOG K-1 | Plate 1 of 3 |
|---|---|---|
| Date: 02-15-13 | HUDEMAN SLOUGH IMPROVEMENTS<br>SKAGGS ISLAND ROAD<br>SONOMA COUNTY, CALIFORNIA | A-4 |
| Entry By: M. Pucci | | |
| Checked By: T. Craven | | |
| File Name: 132413 | | |

| Boring Number: K-1 | Location: Adjacent to existing ramp | Drilling Method: Hollow-stem auger |
|---|---|---|
| Boring Total Depth: 50.5 ft | Coordinates (X/Y, Lat/Long): 38.2063° / -122.37544° | Drilling Equipment: Mobile B-53 |
| Depth to Rock: *No Rock* was Encountered. | Datum/Coordinate System: | Drilling Company: Pearson Drilling |
| Date Begin/End: 02-15-13 / 02-15-13 | Top of Boring Elevation: 7.0 ft | Bit Size/Type: 8-inch / HSA |
| Surface Conditions: Asphalt Concrete | Coordinate Data Source: Google Earth | Hammer Type/Method: Automatic |
| WL Measurement Point: Ground Surface | Depth to Groundwater Initial/Time: 36.0 ft / 0 hrs after | Hammer Drop/Weight: 30 in. / 140 lbs. |
| Logged By: J. Richmond | Depth to Groundwater Final/Time: 13.3 ft / 0.1 hrs after | Angle From Horizontal/Bearing: -90° |

Field Soil Description & Classification — Laboratory

*The report and log key are an integral part of these logs. All data and interpretations in this log are subject to those stated explanations and limitations.*

| Depth (ft) | Elevation (ft) | Sample Type Symbol | Sample Number | Blows per 6 in. | Pocket Pen. (tsf) | Graphic Log | ASTM Symbol | Description | Consistency / Apparent Density | Plasticity | Plasticity Index | Liquid Limit | Water Content (%) | Dry Unit Weight (pcf) | Passing #4 Sieve (%) | Passing #200 Sieve (%) | Other Tests and Field Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Fat Clay (CH) Continued | | | | | | | | | |
| 25 | -21.0 | | 6 | 0<br>1<br>1 | | | CH-MH | **FAT CLAY / ILASTIC SILT (CH/MH)** dark gray, most to wet, soft, occasional organics, strog organic decay odor, increase in stiffness (Oil Bay Mud) | S | | | | | | | | Su(TV) = 0.225 tsf |
| | | | 7 | 1<br>2<br>3 | | | | abundant mated organics | | | | | | | | | Su(TV) = 0.325 tsf |
| 30 | -26.0 | | 8 | 2<br>4<br>7 | | | | minor sand contact at 28 ft. | | | | | | | | | |
| | | | | | | | CH | **FAT CLAY (CH)** gray blue, moist, firm, trace fine grained sand (Alluvium) | F | | | | | | | | Su(TV) = 0.60 tsf |
| | | | | | | | | Very stiff drilleg at 33 ft. | | | | | | | | | |
| 35 | -31.0 | | 9 | 17<br>27<br>34 | | | SC | **CLAYEY SAND (SC)** yellow brown, moist, dense, fine grained sand (Alluvium) | D | | | | | | | | |
| | | | | | | | | easier drilling | | | | | | | | | |
| 40 | -36.0 | | 10 | 4<br>5<br>5 | | | | wet, loose | | | | | | | | | |
| | | | | | | | SP | **POORLY GRADED SAND (SP)** brown, light brown, wet, medium dense, fine to medium grained sand (Alluvium) | Md | | | | | | | | |
| | | | 11 | 9<br>15 | | | | | | | | | | | | | |

KLEINFELDER — Bright People. Right Solutions.

| Project Number: 132413 | BORING LOG K-1 | Plate 2 of 3 |
|---|---|---|
| Date: 02-15-13 | HUDEMAN SLOUGH IMPROVEMENTS<br>SKAGGSISLAND ROAD<br>SONOMA COUNTY, CALIFORNIA | A-4 |
| Entry By: M. Pucci | | |
| Checked By: T. Craven | | |
| File Name: 132413 | | |

| Boring Number: K-1 | Location: Adjacent to existing ramp | Drilling Method: Hollow-stem auger |
|---|---|---|
| Boring Total Depth: 50.5 ft | Coordinates (X/Y, Lat/Long): 38.2063° / -122.37544° | Drilling Equipment: Mobile B-53 |
| Depth to Rock: No Rock was Encountered. | Datum/Coordinate System: | Drilling Company: Pearson Drilling |
| Date Begin/End: 02-15-13 / 02-15-13 | Top of Boring Elevation: 7.0 ft | Bit Size/Type: 8-inch / HSA |
| Surface Conditions: Asphalt Concrete | Coordinate Data Source: Google Earth | Hammer Type/Method: Automatic |
| WL Measurement Point: Ground Surface | Depth to Groundwater Initial/Time: 36.0 ft / 0 hrs after | Hammer Drop/Weight: 30 in. / 140 lbs. |
| Logged By: J. Richmond | Depth to Groundwater Final/Time: 13.3 ft / 0.1 hrs after | Angle From Horizontal/Bearing: -90° |

Field Soil Description & Classification — Laboratory

*The report and log key are an integral part of these logs. All data and interpretations in this log are subject to those stated explanations and limitations.*

| Depth (ft) | Elevation (ft) | Sample Type Symbol | Sample Number | Blows per 6 in. | Pocket Pen. (tsf) | Graphic Log | ASTM Symbol | Description | Consistency / Apparent Density | Plasticity | Plasticity Index | Liquid Limit | Water Content (%) | Dry Unit Weight (pcf) | Passing #4 Sieve (%) | Passing #200 Sieve (%) | Other Tests and Field Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Z3 | | | CL | **LEAN CLAY with SAND (CL)** brown with dark brown mottles, moist, firm to hard, fine grained sand (Alluvium) | F-H | | | | | | | | |
| | | | | | | | SC | **CLAYEY SAND (SC)** light brown, moist, medium dense, fine to medium grained sand (Alluvium) | Md | | | | | | | | |
| 50 | -46.0 | | 12 | 10<br>13<br>19 | | | | Boring completed at a depth of 50.5 ft below existing site gade. Boring backfilled with bentonite chips upon completion. | | | | 15 | 34 | 31 | 91 | 100 | 48 |

KLEINFELDER — Bright People. Right Solutions.

| Project Number: 132413 | BORING LOG K-1 | Plate 3 of 3 |
|---|---|---|
| Date: 02-15-13 | HUDEMAN SLOUGH IMPROVEMENTS<br>SKAGGS ISLAND ROAD<br>SONOMA COUNTY, CALIFORNIA | A-4 |
| Entry By: M. Pucci | | |
| Checked By: T. Craven | | |
| File Name: 132413 | | |

| Boring Number: K-2 | Location: Parking lot island | Drilling Method: Hollow-stem auger |
|---|---|---|
| Boring Total Depth: 11.5 ft | Coordinates (X/Y, Lat/Long): 38.20642° / -122.37531° | Drilling Equipment: Mobile B-53 |
| Depth to Rock: *No Rock* was Encountered. | Datum/Coordinate System: | Drilling Company: Pearson Drilling |
| Date Begin/End: 02-15-13 / 02-15-13 | Top of Boring Elevation: 4.0 ft | Bit Size/Type: 8-inch / HSA |
| Surface Conditions: Brush | Coordinate Data Souce: Google Earth | Hammr Type/Method: Automatic |
| WL Measurement Point: Ground Surface | Depth to Groundwate Initial/Time: 6.0 ft / 0 hrs after | Hammr Drop/Weight: 30 in. / 140 lbs. |
| Logged By: J. Richmond | Depth to Groundwate Final/Time: 4.0 ft / 0.2 hrs after | Angle from Horizontal/Bearing: -90° |

Field Soil/Description & Classification — Laboratory

*The report and log key are an integral part of these logs. All data and interpretations in this log are subject to those stated explanations and limitations.*

| Depth (ft) | Elevation (ft) | Sample Type Symbol | Sample Number | Blows per 6 in. | Pocket Pen. (tsf) | Graphic Log | ASTM Symbol | Description | Consistency / Apparent Density | Plasticity | Plasticity Index | Liquid Limit | Water Content (%) | Dry Unit Weight (pcf) | Passing #4 Sieve (%) | Passing #200 Sieve (%) | Other Tests and Field Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 3<br>3<br>4 | | | CL | **SANDY LEAN CLA' with GRAVEL (CL)** brown, moist, firm, fixe to coarse grained sand, subrounded gravel up to 0.6" (Fill) | F | | | | | | | | Composite Rv-value test with K-1 (0'-3') |
| | | | 2 | 3<br>5<br>4 | | | | | | | | | | | | | Corrosivity Test |
| 5 | -1.0 | | 3 | 1<br>2<br>2 | | | CL/CH | **LEAN/FAT CLAY (CH)** brown with light brown mottles, moist, very soft (Marsh Deposit) | S | | | | | | | | |
| | | | | | | | | occasional rootlets, vgetation, highly porous, seepage in pores | | | | | | | | | |
| | | | | | | | CH | **FAT CLAY (CH)** gray to gray blue, wet, very soft, abundant reeds, roots (Bay Mud) | S | | | | | | | | |
| | | | 4 | 0<br>1<br>1 | | | | | | | | | | | | | |
| 10 | -6.0 | | 5 | 0<br>1<br>1 | | | | | | | | | | | | | |
| | | | | | | | | Boring completed ata depth of 11.5 ft below existing site grade. Boring backfilled with bentonite chips upor completion. | | | | | | | | | |
| 15 | -11.0 | | | | | | | | | | | | | | | | |
| 20 | -16.0 | | | | | | | | | | | | | | | | |

K-3

KLEINFELDER — Bright People. Right Solutions.

| Project Number: 132413 | BORING LOG K-2 | Plate 1 of 1 |
|---|---|---|
| Date: 02-15-13 | HUDEMAN SLOUGH IMPROVEMENTS<br>SKAGGS ISLAND ROAD<br>SONOMA COUNTY, CALIFORNIA | A-5 |
| Entry By: M. Pucci | | |
| Checked By: T. Craven | | |
| File Name: 132413 | | |

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

BORING LOGS

HUDEMAN SLOUGH LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

| | |
|---|---|
| DRAWN BY : | NAV |
| CHECKED BY : | SMN |
| JOB NO. : | 140368 |
| DATE : | APRIL 1, 2014 |

SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
SUITE 120A
SANTA ROSA, CA 95403
(707) 565-2041
(707) 579-8247 FAX

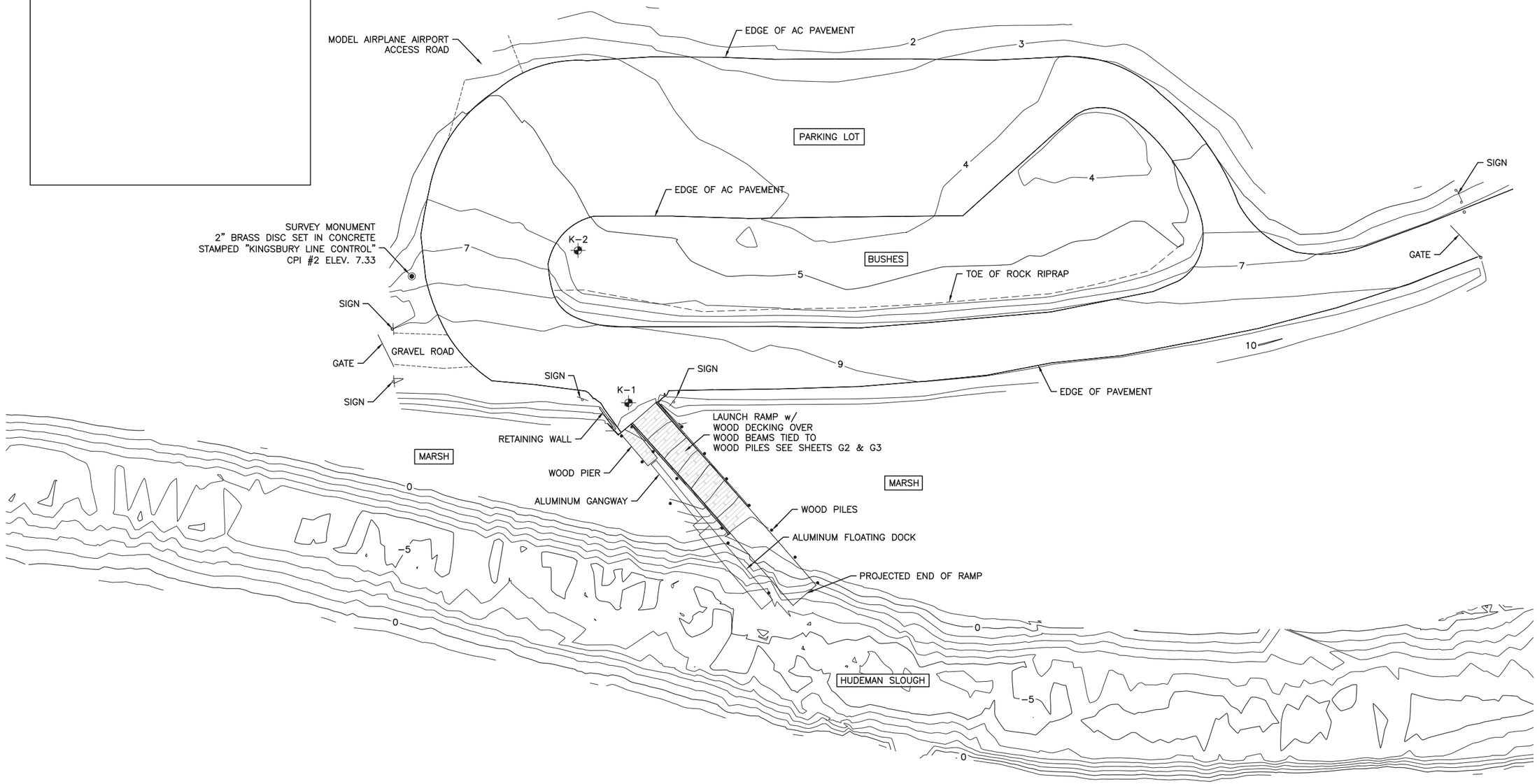
SHEET TITLE

SHEET NO.

G4

5 OF 19 SHEETS

NOTES:




1/6 EXISTING CONDITIONS
SCALE: 1" = 20'

20' 0 20'
1" = 20'

VERTICAL DATUM: NAVD88

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

EXISTING CONDITIONS

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

| | |
|---|---|
| DRAWN BY : | NAV |
| CHECKED BY : | SMN |
| JOB NO. : | 140368 |
| DATE : | SEPTEMBER 26, 2014 |

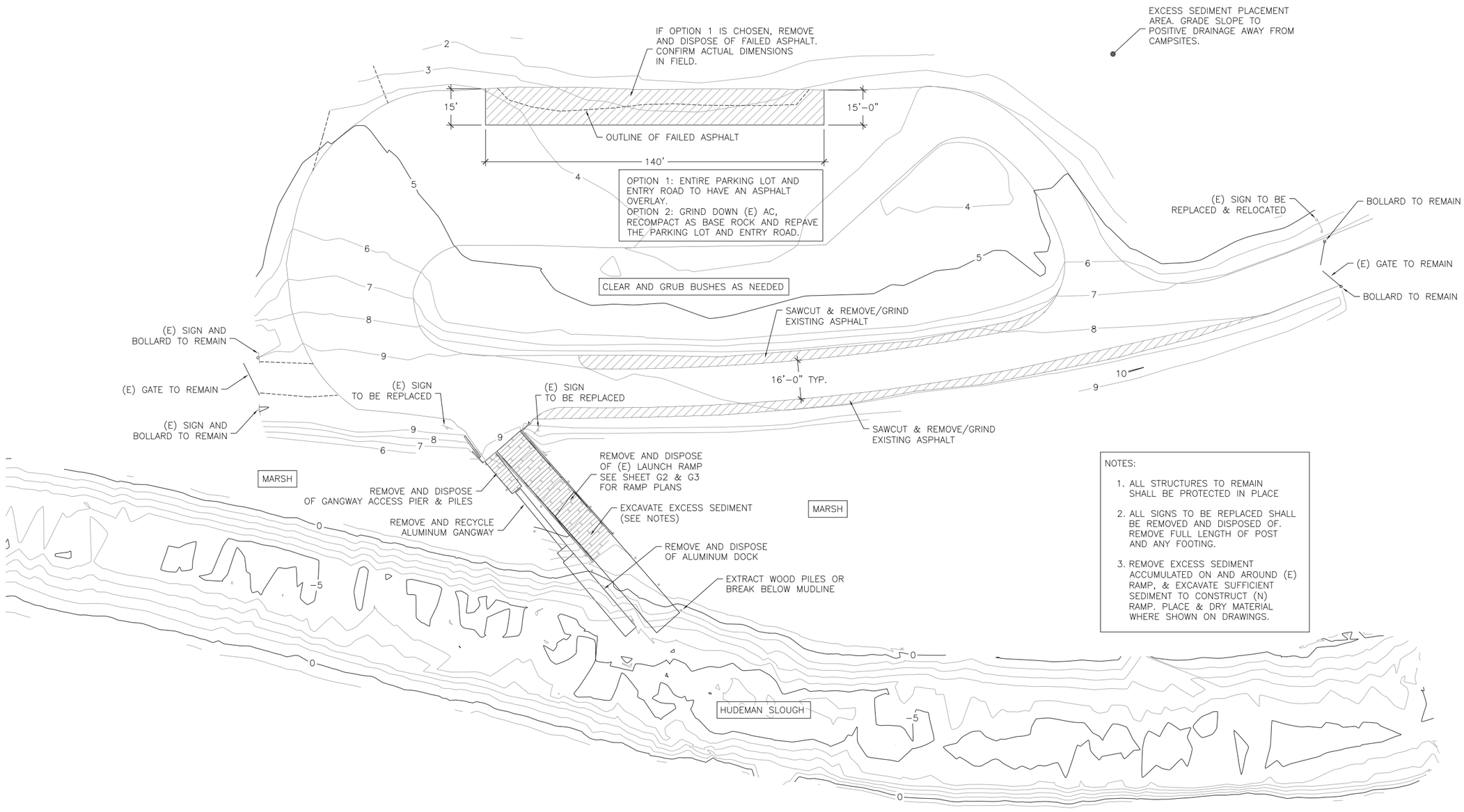

SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
SUITE 120A
SANTA ROSA, CA 95403
(707) 565-2041
(707) 579-8247 FAX


SHEET TITLE

SHEET NO.

C1

6 OF 19 SHEETS




NOTES:

1. ALL STRUCTURES TO REMAIN SHALL BE PROTECTED IN PLACE
2. ALL SIGNS TO BE REPLACED SHALL BE REMOVED AND DISPOSED OF. REMOVE FULL LENGTH OF POST AND ANY FOOTING.
3. REMOVE EXCESS SEDIMENT ACCUMULATED ON AND AROUND (E) RAMP, & EXCAVATE SUFFICIENT SEDIMENT TO CONSTRUCT (N) RAMP. PLACE & DRY MATERIAL WHERE SHOWN ON DRAWINGS.

1/7 DEMOLITION PLAN
SCALE: 1" = 20'

20' 0 20'
1" = 20'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

# DEMOLITION PLAN

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

DRAWN BY : NAV

CHECKED BY : SWN

JOB NO. : 140368

DATE : September 26, 2014

SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
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SHEET NO.

C2

7 OF 19 SHEETS

CONTRACTOR SHALL MAINTAIN ACCESS TO MODEL AIRPLANE FACILITY, EXCEPT WHEN APPROVED BY COUNTY FOR PAVING OR OTHER CONSTRUCTION ACTIVITIES.

CAMPING AREA, SEE L1 & L2
DREDGE MATERIAL MAY BE PLACED HERE TO LEVEL OUT THE SITE.

SITE 4
SITE 3
SITE 5
SITE 2
SITE 1

TRUNCATED DOMES, TYP. IN 4 LOCATIONS
EDGE OF PAVEMENT
ACCESS TO MODEL AIRPLANE AIRPORT
CAMP HOST SITE
REPAVE ASPHALT PARKING LOT
1/13 PAVING & STRIPING PLAN
VEGETATED SWALE
DISABLED PARKING RESTRICTION SIGN
LIMIT OF PAVEMENT REPAVING
16' MIN
FILL, COMPACT & PAVE
RESTROOM
RETAINING WALL FOUNDATION
ADA ACCESSIBLE PATH
LEVEL PAD
4%
1/12
RIP RAP DISSIPATER
TO SKAGGS ISLAND ROAD
NEW ENTRY SIGN LOCATION
7- BOLLARDS @ 5'-0"o.c.
16' MIN
EDGE OF (N) PAVEMENT
SHALLOW CONCRETE SPILLWAY ACROSS THE ROAD
MARSH
CONCRETE LAUNCH RAMP 16' WIDE x 100' LONG
1/9 1/10
6'x60' FLOATING DOCK w/ 3-16"ø CONCRETE PILES
LOW FREEBOARD DOCK
MARSH
HUDEMAN SLOUGH

1/8 PROJECT PLAN
SCALE: 1" = 20'

20' 0 20'
1" = 20'

VERTICAL DATUM: NAVD88

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

# PROJECT PLAN

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

DRAWN BY : NAV
CHECKED BY : SWN
JOB NO. : 140368
DATE : September 26, 2014

SONOMA COUNTY REGIONAL PARKS
2300 COUNTY CENTER DRIVE,
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SANTA ROSA, CA 95403
(707) 565-2041
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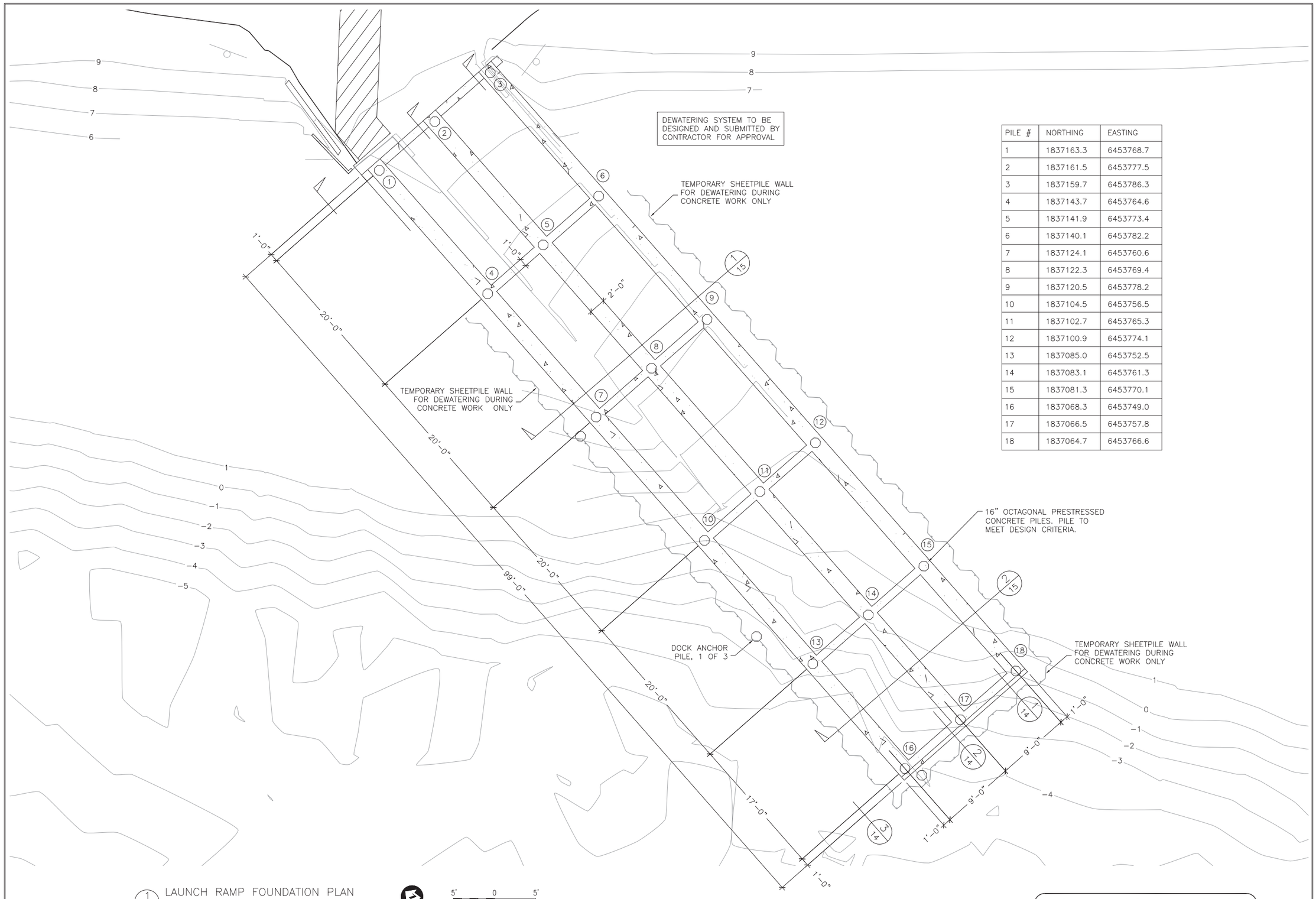
SHEET TITLE
SHEET NO.
C3
8 OF 19 SHEETS




| PILE # | NORTHING | EASTING |
|---|---|---|
| 1 | 1837163.3 | 6453768.7 |
| 2 | 1837161.5 | 6453777.5 |
| 3 | 1837159.7 | 6453786.3 |
| 4 | 1837143.7 | 6453764.6 |
| 5 | 1837141.9 | 6453773.4 |
| 6 | 1837140.1 | 6453782.2 |
| 7 | 1837124.1 | 6453760.6 |
| 8 | 1837122.3 | 6453769.4 |
| 9 | 1837120.5 | 6453778.2 |
| 10 | 1837104.5 | 6453756.5 |
| 11 | 1837102.7 | 6453765.3 |
| 12 | 1837100.9 | 6453774.1 |
| 13 | 1837085.0 | 6453752.5 |
| 14 | 1837083.1 | 6453761.3 |
| 15 | 1837081.3 | 6453770.1 |
| 16 | 1837068.3 | 6453749.0 |
| 17 | 1837066.5 | 6453757.8 |
| 18 | 1837064.7 | 6453766.6 |

1/9 LAUNCH RAMP FOUNDATION PLAN

VERTICAL DATUM: NAVD88

SCALE: 1" = 5'

5' 0 5'

1" = 5'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

LAUNCH RAMP
FOUNDATION PLAN

HUDEMAN SLOUGH BOAT LAUNCH
FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

DRAWN BY : NAV

CHECKED BY : SWN

JOB NO. : 140368

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SHEET TITLE

SHEET NO.

C4

9 OF 19 SHEETS

EL. 8.7'

9
8
7
6

9
8
7

1/15

CIP CURB

TEMPORARY SHEETPILE WALL
FOR DEWATERING DURING
CONCRETE WORK

DOCK & GANGWAY SHOWN
FOR PERSPECTIVE

TEMPORARY SHEETPILE WALL
FOR DEWATERING DURING
CONCRETE WORK

20-5'x22'x8" THICK
PRECAST CONCRETE
PANELS

CIP CURB

100'-6"

2/15

CIP CURB

TEMPORARY SHEETPILE WALL
FOR DEWATERING DURING
CONCRETE WORK

DOCK ANCHOR
PILE, 1 OF 3

1/14

EL. -3.2'

2/14

22'-0"

3/14

1
0
-1
-2
-3
-4
-5

1
0
-1
-2
-3
-4

1/10 LAUNCH RAMP PANEL PLAN

VERTICAL DATUM: NAVD88 SCALE: 1" = 5'

5' 0 5'
1" = 5'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

# LAUNCH RAMP PANEL PLAN

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

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JOB NO. : 140368

DATE : September 26, 2014

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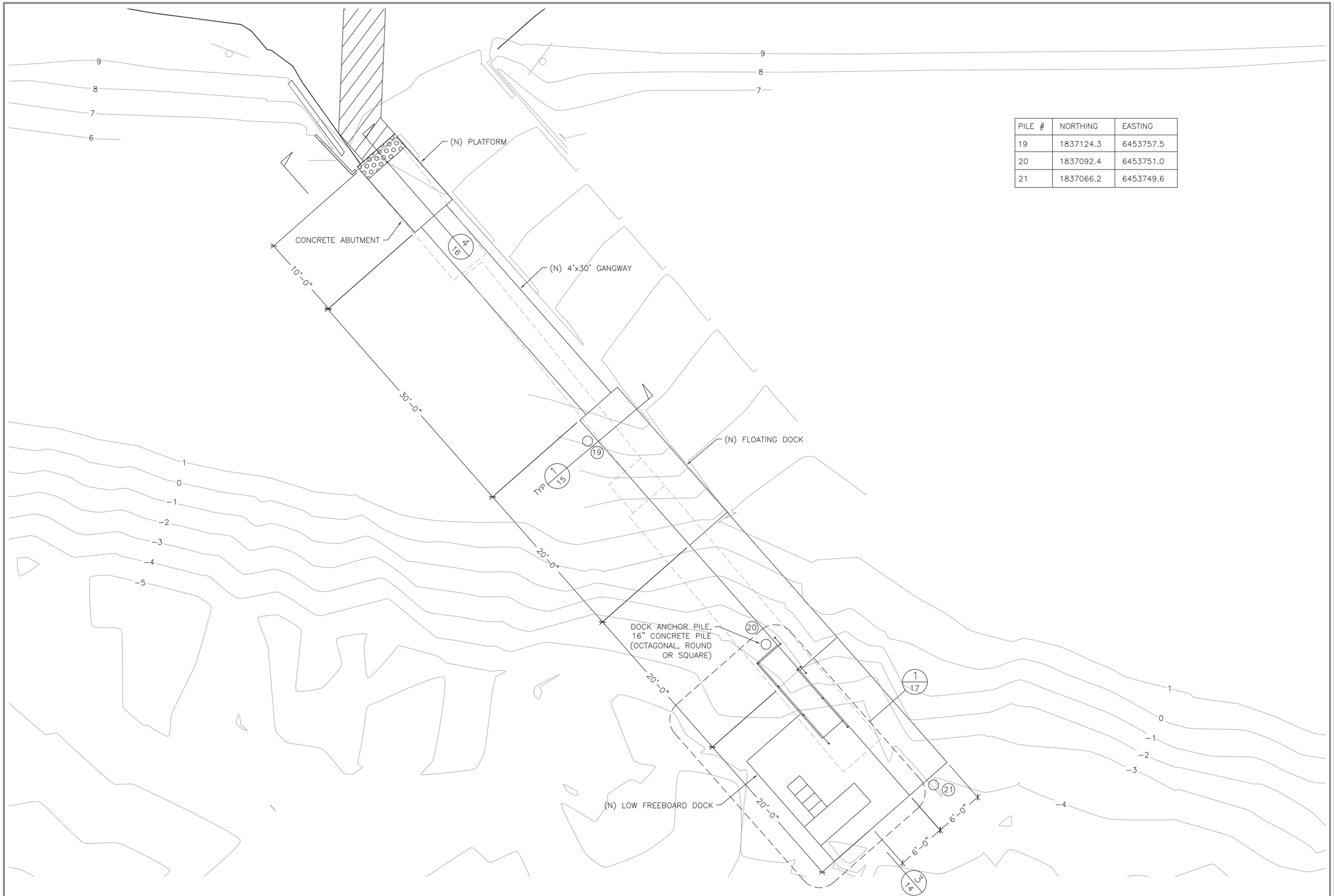
SHEET TITLE

SHEET NO.

C5

10 OF 19 SHEETS




| PILE # | NORTHING | EASTING |
|---|---|---|
| 19 | 1837124.3 | 6453757.5 |
| 20 | 1837092.4 | 6453751.0 |
| 21 | 1837066.2 | 6453749.6 |

DATUM: NAVD88

1/11 DOCK PLAN
SCALE: 1" = 5'

5' 0 5'
1" = 5'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

DOCK PLAN

HUDEMAN SLOUGH BOAT LAUNCH
FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

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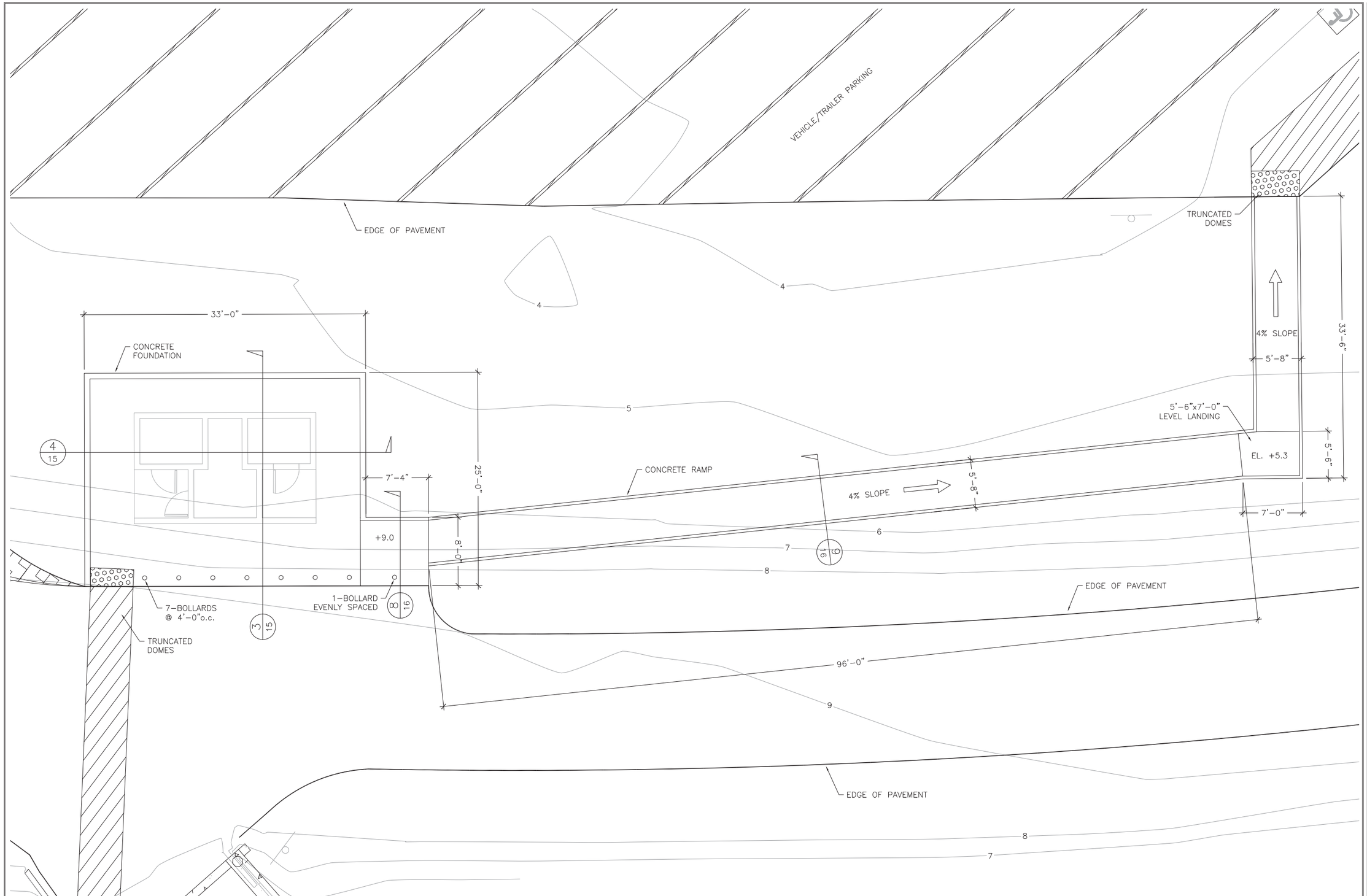
SHEET TITLE
SHEET NO.
C6
11 OF 19 SHEETS




1/12 RESTROOM & ACCESS RAMP PLAN

SCALE: 1" = 5'

VERTICAL DATUM: NAVD88

5' 0 5'

1" = 5'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

# RESTROOM AND ACCESS RAMP PLAN

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

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JOB NO. : 140368

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SHEET TITLE

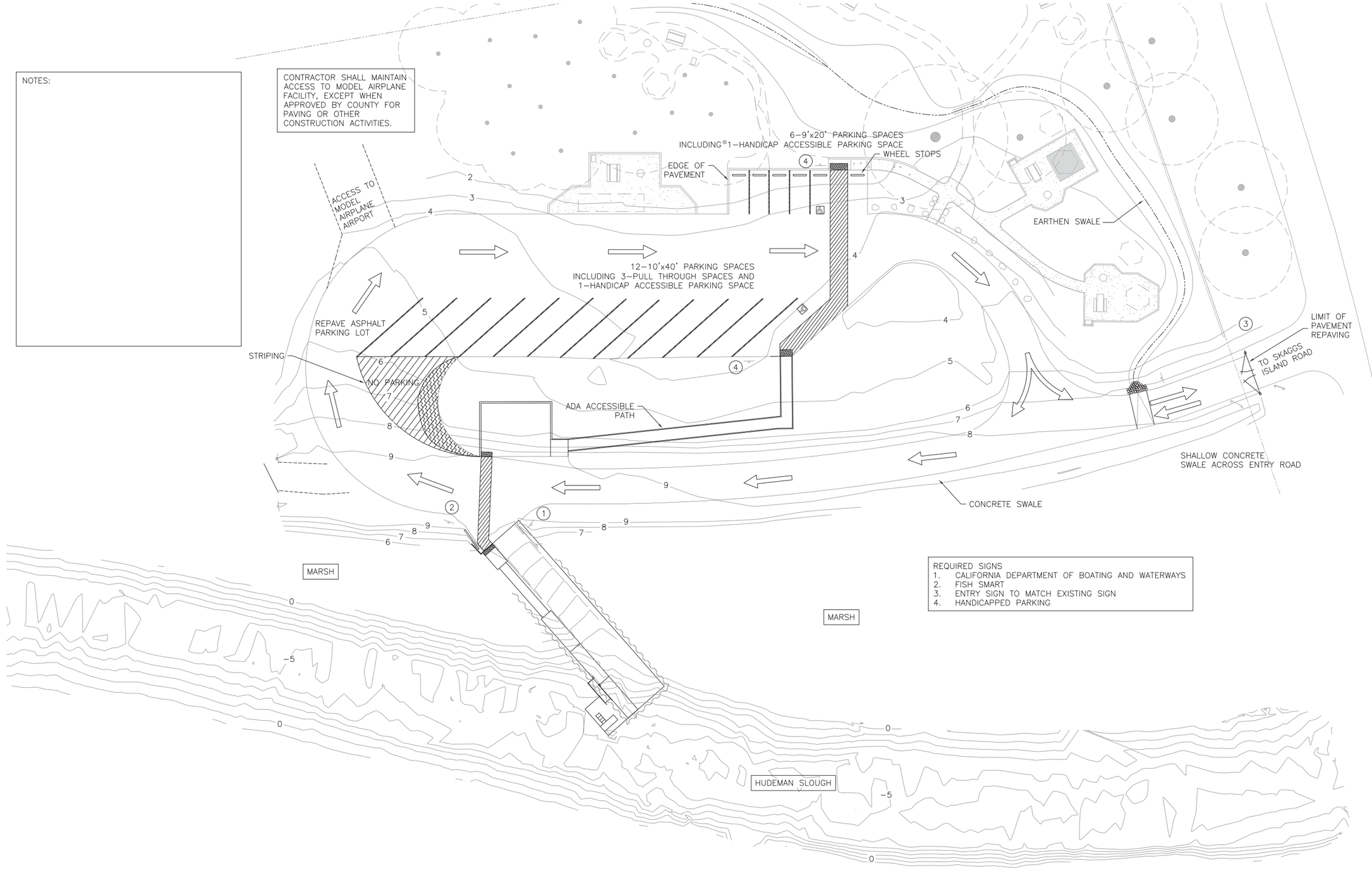
SHEET NO.

C7

12 OF 19 SHEETS

NOTES:

CONTRACTOR SHALL MAINTAIN ACCESS TO MODEL AIRPLANE FACILITY, EXCEPT WHEN APPROVED BY COUNTY FOR PAVING OR OTHER CONSTRUCTION ACTIVITIES.




REQUIRED SIGNS
1. CALIFORNIA DEPARTMENT OF BOATING AND WATERWAYS
2. FISH SMART
3. ENTRY SIGN TO MATCH EXISTING SIGN
4. HANDICAPPED PARKING

1/13 PAVING, STRIPING & SIGNAGE PLAN
SCALE: 1" = 20'

20' 0 20'
1" = 20'

VERTICAL DATUM: NAVD88

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

PAVING PLAN

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

DRAWN BY : NAV

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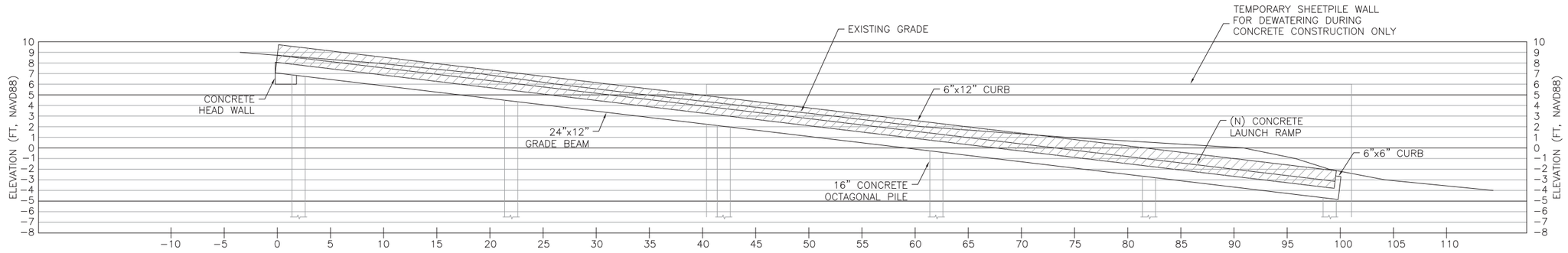
SHEET TITLE

SHEET NO.

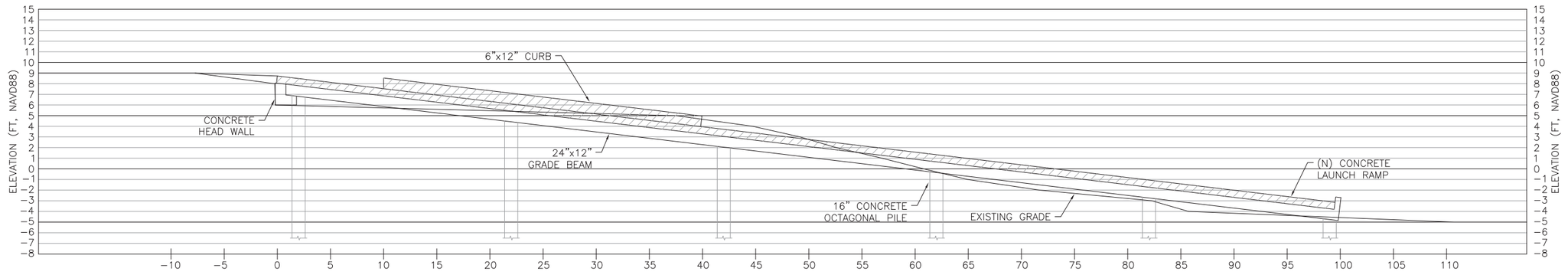
C8

13 OF 19 SHEETS



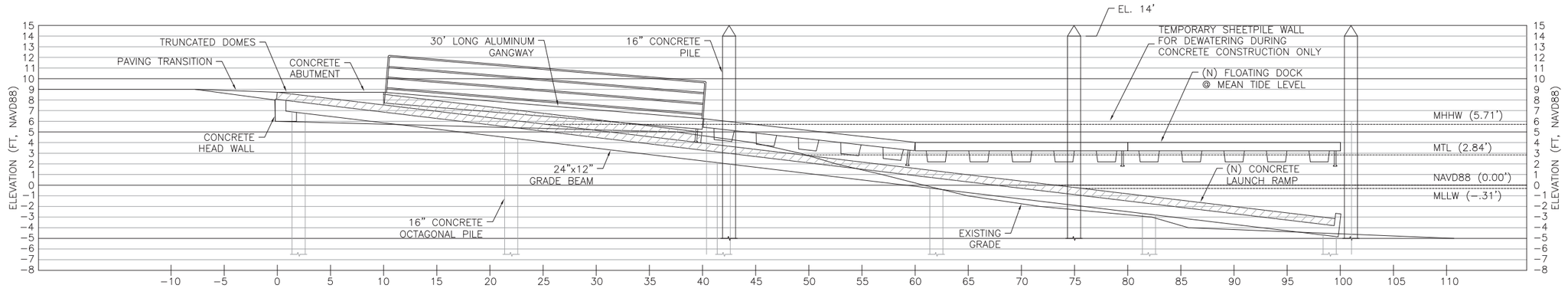

1/14 LAUNCH RAMP @ EAST SHEET PILE WALL PROFILE

SCALE: 1" = 5'




2/14 LAUNCH RAMP @ WEST SHEET PILE WALL PROFILE

SCALE: 1" = 5'




3/14 LAUNCH RAMP THROUGH DOCK @ MEAN TIDE LINE

SCALE: 1" = 5'

5' 0 5'

1" = 5'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

SECTIONS

SLOUGH BOAT LAUNCH
FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

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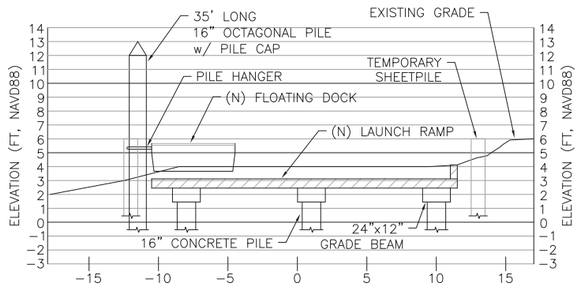
SHEET TITLE

SHEET NO.

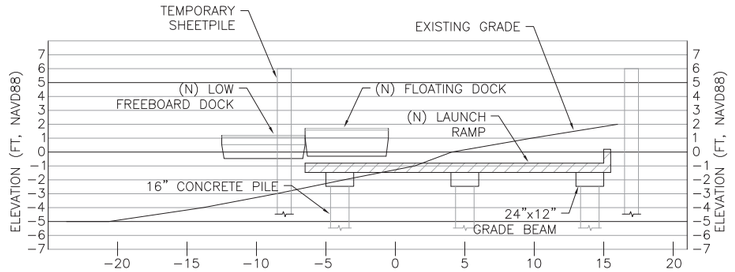
C9

14 OF 19 SHEETS




1/15 LAUNCH RAMP SECTION

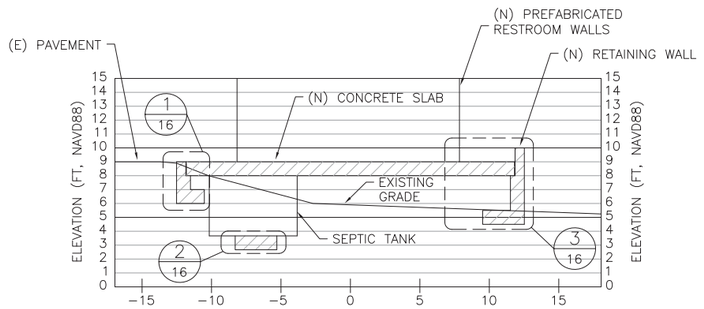
SCALE: 1" = 5'




2/15 LAUNCH RAMP SECTION

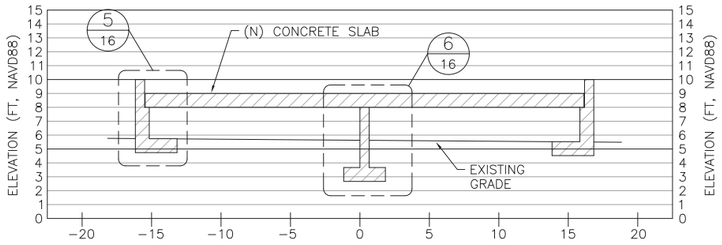
SCALE: 1" = 5'

TEMPORARY SHEETPILE WALL
FOR DEWATERING DURING
CONCRETE CONSTRUCTION ONLY




3/15 RESTROOM SECTION

SCALE: 1" = 5'




4/15 RESTROOM SECTION

SCALE: 1" = 5'

5' 0 5'

1" = 5'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

SECTIONS

HUDEMAN SLOUGH BOAT LAUNCH
FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

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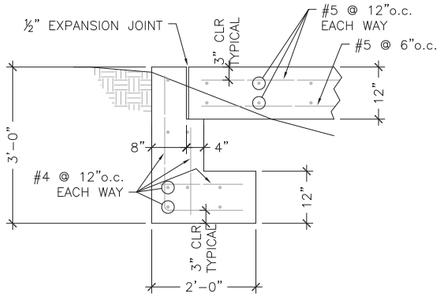
SHEET TITLE

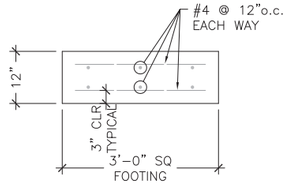
SHEET NO.

C10

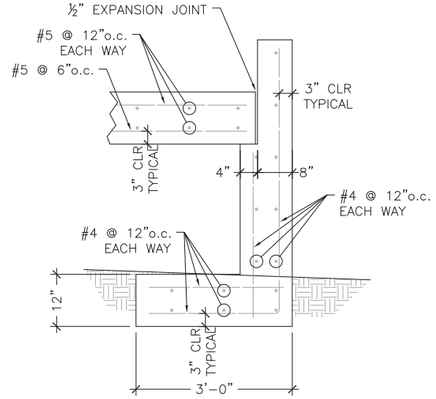
15 OF 19 SHEETS



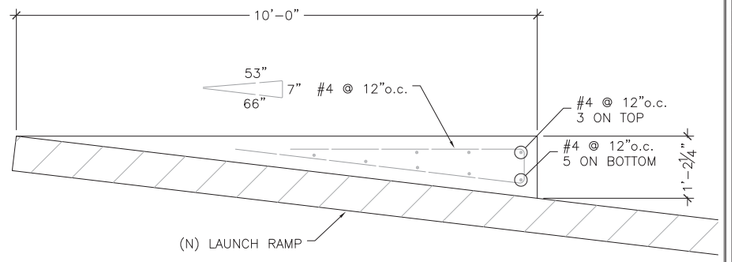

1/16 RESTROOM FOUNDATION
SCALE: 3/4" = 1'




2/16 HOLDING TANK FOOTING
SCALE: 3/4" = 1'




3/16 RESTROOM FOUNDATION
SCALE: 3/4" = 1'




4/16 ABUTMENT DETAIL
SCALE: 3/4" = 1'




5/16 RESTROOM FOUNDATION
SCALE: 3/4" = 1'




6/16 HOLDING TANK FOOTING
SCALE: 3/4" = 1'




8/16 LANDING PLATFORM
SCALE: 3/4" = 1'




9/16 ACCESS WALKWAY
SCALE: 3/4" = 1'




10/16 RAMP GRADEBEAM DETAIL
SCALE: 3/4" = 1'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

DETAILS

HUDEMAN SLOUGH BOAT LAUNCH
FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

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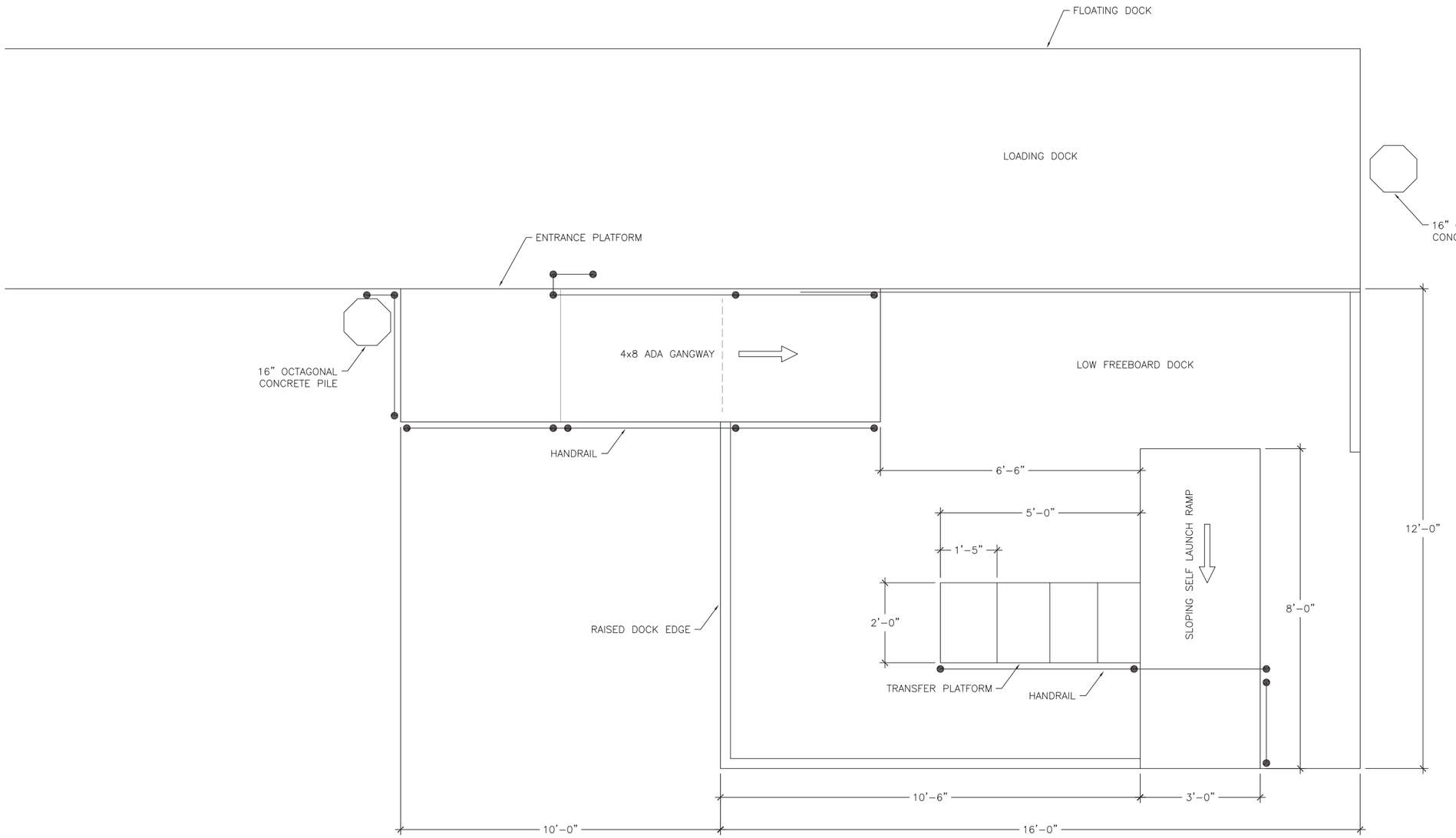
SHEET TITLE
SHEET NO.
C11
16 OF 19 SHEETS

NOTES:
1. LOW FREEBOARD DOCK TO BE KAY–AKCESS OR APPROVED EQUIVALENT (INCLUDING SIMILAR DESIGN AS LOADING DOCK).

2. DEAD LOAD FREEBOARD
   A. LOADING DOCK: 14" TO 20"
   B. LOW FREEBOARD DOCK: 6" TO 8"
   C. SELF LAUNCH RAMP: VARIABLE, 7" ABOVE THE WATER TO 6" BELOW WATER HEIGHT

3. TRANSFER PLATFORM HEIGHT TO BE ±20". INSTALL CROSS BAR AT BOTTOM OF PLATFORM TO ASSIST TRANSFER TO & FROM KAYAK.




1/17 LOW FREEBOARD DOCK PLAN
SCALE: 3/4" = 1'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

LOW FREEBOARD DOCK PLAN

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

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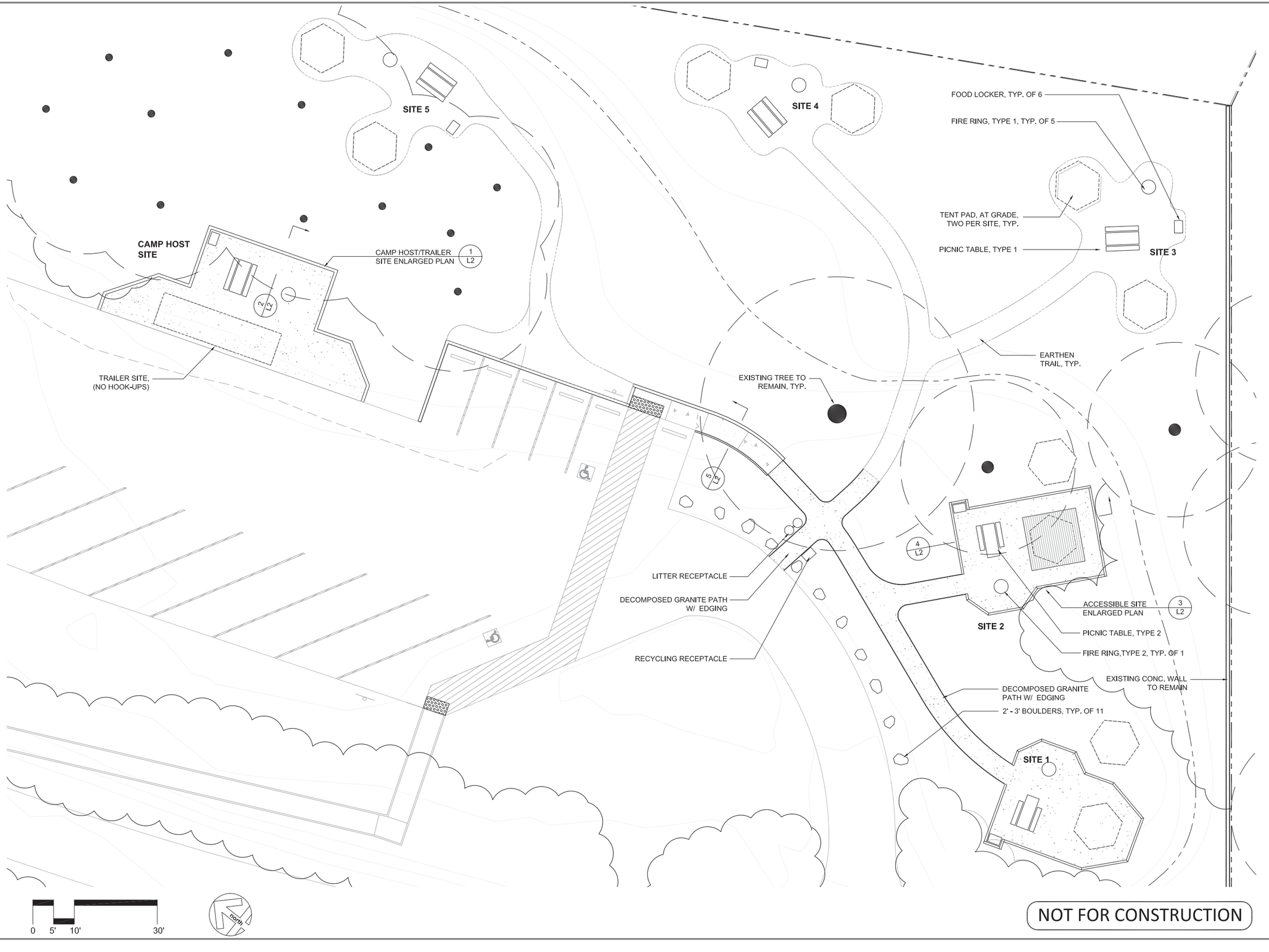
SHEET TITLE
SHEET NO.
C12
17 OF 19 SHEETS




NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

# CAMPGROUND PLAN

# HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

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DATE : September 26, 2014


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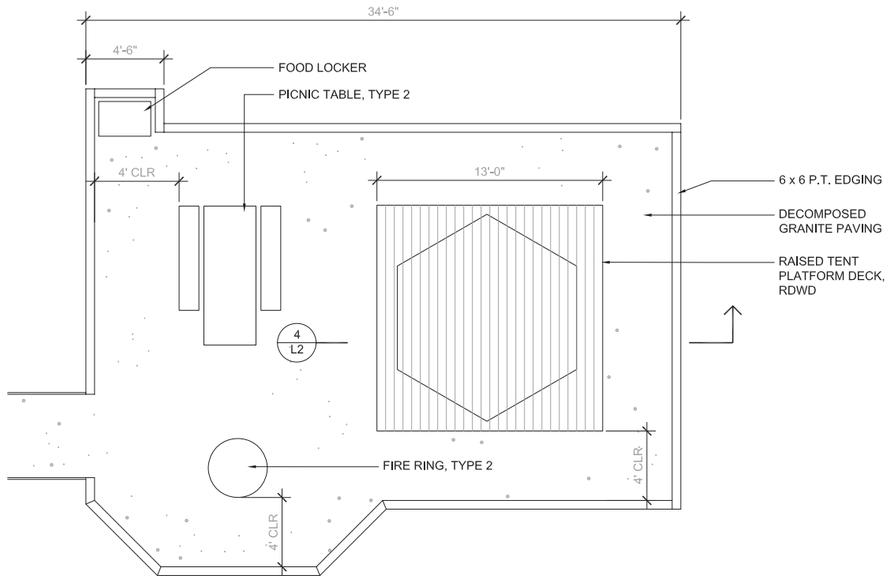
SHEET TITLE

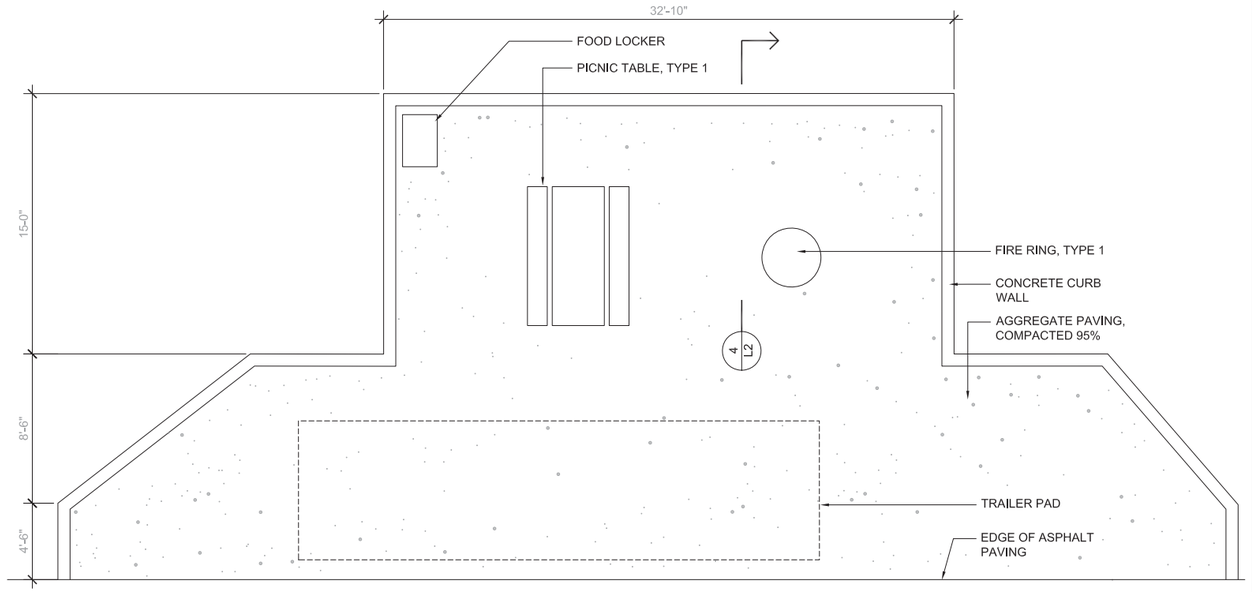
SHEET NO.

L1



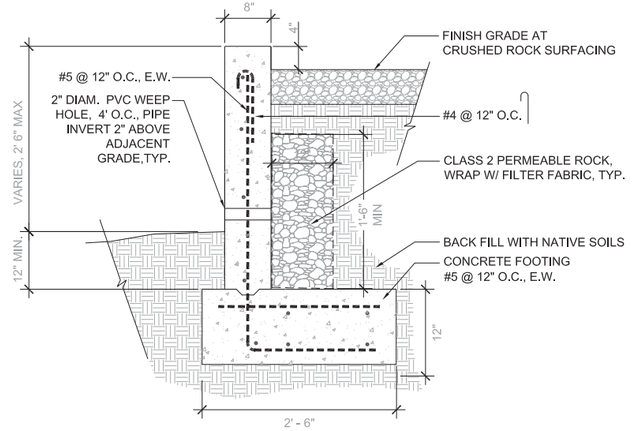

## 3 ACCESSIBLE SITE PLAN ENLARGEMENT

SCALE 1/4" = 1'



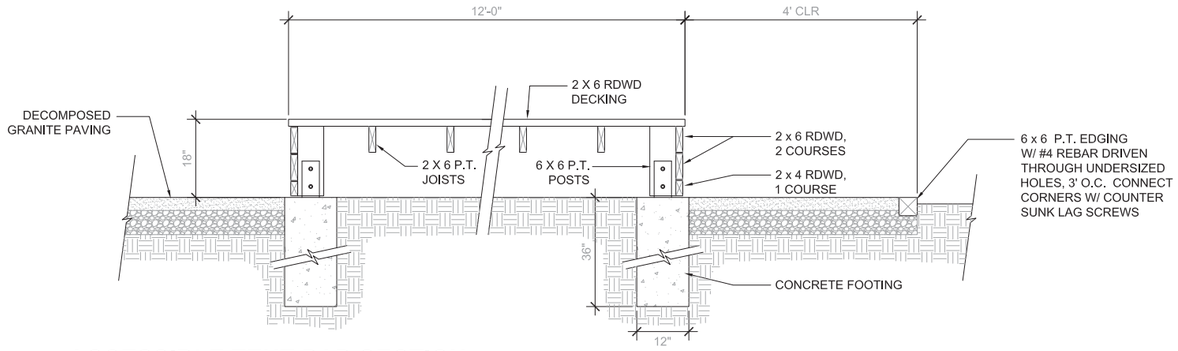

## 1 TRAILER SITE PLAN ENLARGEMENT

SCALE 1/4" = 1'



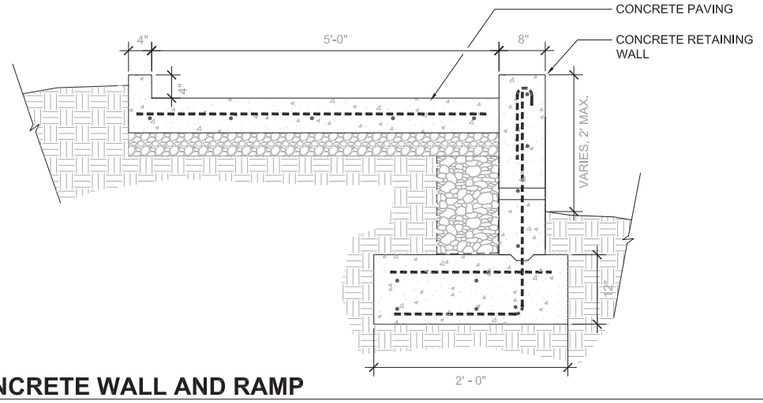

## 2 TRAILER SITE WALL SECTION

SCALE 1" = 1'




## 4 ACCESSIBLE TENT PAD SECTION

SCALE 3/4" = 1'




## 5 CONCRETE WALL AND RAMP

SCALE 1" = 1'

NOT FOR CONSTRUCTION

| REV | DATE | BY |
|---|---|---|
| | | |

CAMPGROUND DETAILS

HUDEMAN SLOUGH BOAT LAUNCH FACILITY IMPROVEMENT PROJECT

NOBLE CONSULTANTS, INC

PROJECT ENGINEER :

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SHEET TITLE

SHEET NO.

L2

19 OF 19 SHEETS