

ORIOLE BEACH BOAT RAMP IMPROVEMENTS FOR SANTA ROSA COUNTY, FLORIDA

PROJECT DESCRIPTION

IN GENERAL, THE PROJECT CONSISTS OF REMOVAL OF AN EXISTING DILAPIDATED CONCRETE BOAT RAMP WITH CONSTRUCTION OF A NEW CONCRETE BOAT RAMP AND SITE IMPROVEMENTS. AS SHOWN ON THE DRAWINGS, THE PROJECT CONSISTS OF:

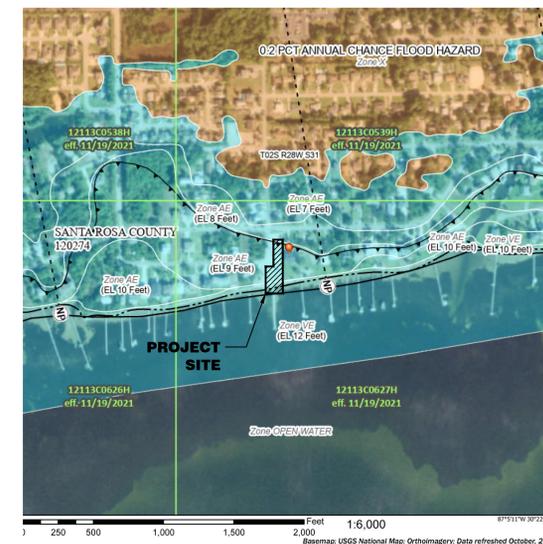
- A. DEMOLITION AND REMOVAL OF EXISTING DILAPIDATED CONCRETE SITE FEATURES INCLUDING:
 - CONCRETE BOAT RAMP,
 - CONCRETE SIDEWALK,
 - CONCRETE HANDICAPPED PARKING PADS,
 - SEAWALL, AND
 - RUBBLE;
 - B. CONSTRUCTION OF:
 - NEW CONCRETE BOAT RAMP – VIA:
 - 0 REMOVAL AND REPLACEMENT OF SEGMENTS OF EXISTING DOCKS,
 - 0 INSTALLATION OF TEMPORARY SHEET PILE COFFERDAM TO SUPPORT DEWATERING DURING NEW RAMP CONSTRUCTION
 - 0 FORMING AND POURING OF NEW CONCRETE RAMP,
 - VINYL SHEET PILE SEAWALL TO STABILIZE THE SHORELINE,
 - STORMWATER COLLECTION SYSTEM INCLUDING:
 - 0 CATCH BASINS,
 - 0 MANHOLES,
 - 0 REINFORCED CONCRETE CULVERTS (RCP), AND
 - 0 AN UNDERGROUND STORMWATER RETENTION SYSTEM
- ▲ ASPHALT AND GRAVEL PARKING AREAS,
• LANDSCAPING, AND
• SIGNAGE.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C1.1	NOTES
C2.0	EXISTING CONDITIONS
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTROL PLAN DETAILS
C4.0	DEMOLITION PLAN
C5.0	SITE PLAN
C6.0	PAVING, GRADING, & DRAINAGE PLAN
C6.1	PROFILE & CROSS-SECTION
C6.2	PAVING, GRADING, & DRAINAGE DETAILS
C6.3	PAVING, GRADING, & DRAINAGE DETAILS
C6.4	PAVING, GRADING, & DRAINAGE DETAILS
C6.5	PAVING, GRADING, & DRAINAGE DETAILS
C6.6	PAVING, GRADING, & DRAINAGE DETAILS
C6.7	PAVEMENT MARKING DETAILS
C7.0	SOIL BORING PLANVIEW
C7.1	SOIL BORING CROSS-SECTIONS
C8.0	EXISTING CONDITIONS DRAINAGE MAP
C8.1	PROPOSED CONDITIONS DRAINAGE MAP
C9.0	RAMP & SEAWALL DETAILS
C10.0	DOCK DETAILS
C11.0	LANDSCAPE PLAN



LOCATION MAP

FEMA MAP



LEGEND

- Without Base Flood Elevation (BFE)
- With BFE or Depth (Zone AE, VE, V1, V2, V3)
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X)
- Future Conditions 1% Annual Chance Flood Hazard (Zone X)
- Area with Reduced Flood Risk due to Levee (Zone D)
- Area with Flood Risk due to Levee (Zone D)
- No Flood Hazard (Zone A)
- Area of Undetermined Flood Hazard (Zone U)

OTHER AREAS

- Effective Levee
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Tronsect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Tronsect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not as described below. The basemap shown complies with FEMA's basemap accuracy standards.

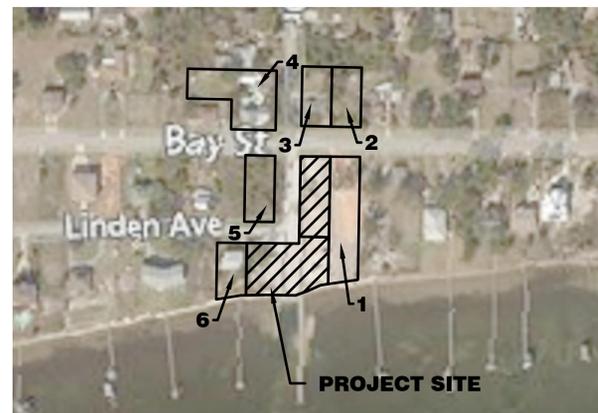
The flood hazard information is derived directly from the authoritative NFHL, with services provided by FEMA. This map was exported on 10/27/2022 at 4:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is valid if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, copyright identifier, FIRM panel number, and FIRM effective date. Map images for unmap and unmapred areas cannot be used for regulatory purposes.

PERMITS REQUIRED
SANTA ROSA COUNTY SITE PERMIT
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ENVIRONMENTAL RESOURCE PERMIT
USACE (BULKHEAD) & (BOAT RAMP)

PROJECT LOCATION
THE ACTIVITIES AUTHORIZED BY THIS PERMIT ARE LOCATED AT 3187 LINDEN AVE. GULF BREEZE, FL 32563.
PARCEL IDS 31-2S-28-2980-00100-0010 & 31-2S-28-2980-00000-PARK, IN SECTION 31, TOWNSHIP 2 SOUTH, RANGE 28 WEST IN SANTA ROSA COUNTY.

ADJACENT PARCELS MAP



INFO TABLE - ADJACENT PARCELS (SEE MAP AT LEFT)				
	PARCEL ID	CURRENT ZONING	FUTURE LAND USE	EXISTING LAND USE
1	31-2S-28-2980-00100-0020	R1	SFR	SFR
2	31-2S-28-2980-00400-0232	R1	SFR	SFR
3	31-2S-28-2980-00400-0230	R1	SFR	SFR
4	31-2S-28-2980-00300-0250	R1	SFR	SFR
5	31-2S-28-2980-00200-0130	R1	SFR	SFR
6	31-2S-28-2980-00700-0120	R1	SFR	SFR

PROJECT :
ISSUED FOR BID BY
SANTA ROSA COUNTY
6051 OLD BAGDAD HIGHWAY, SUITE 301
MILTON, FL 32583
PHONE: 850-981-7135

SITE WORK, CIVIL ENGINEER
COASTAL TECHNOLOGY CORPORATION
3625 20TH STREET,
VERO BEACH, FL 32960
PHONE: 772-562-8580

SURVEYOR
RUBEN SURVEYING & MAPPING
913 GULF BREEZE PKWY, STE. 6
GULF BREEZE, FLORIDA, 32561
PHONE: 850-916-7382

GEOTECHNICAL ENGINEER
LARRY M. JACOBS & ASSOCIATES, INC.
328 EAST GADSDEN STREET
PENSACOLA, FLORIDA 32501
PHONE 850-434-8046

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!



COASTAL TECH
 ENVIRONMENTAL · CIVIL ENGINEERING AND PLANNING
 CERTIFICATE OF AUTHORIZATION NUMBER: 00004165
 3625 20TH STREET, VERO BEACH, FL 32960 (772) 662-8580

COVER SHEET WITH LOCATION MAP

ORIOLE BEACH BOAT RAMP IMPROVEMENTS
 FOR
 SANTA ROSA COUNTY

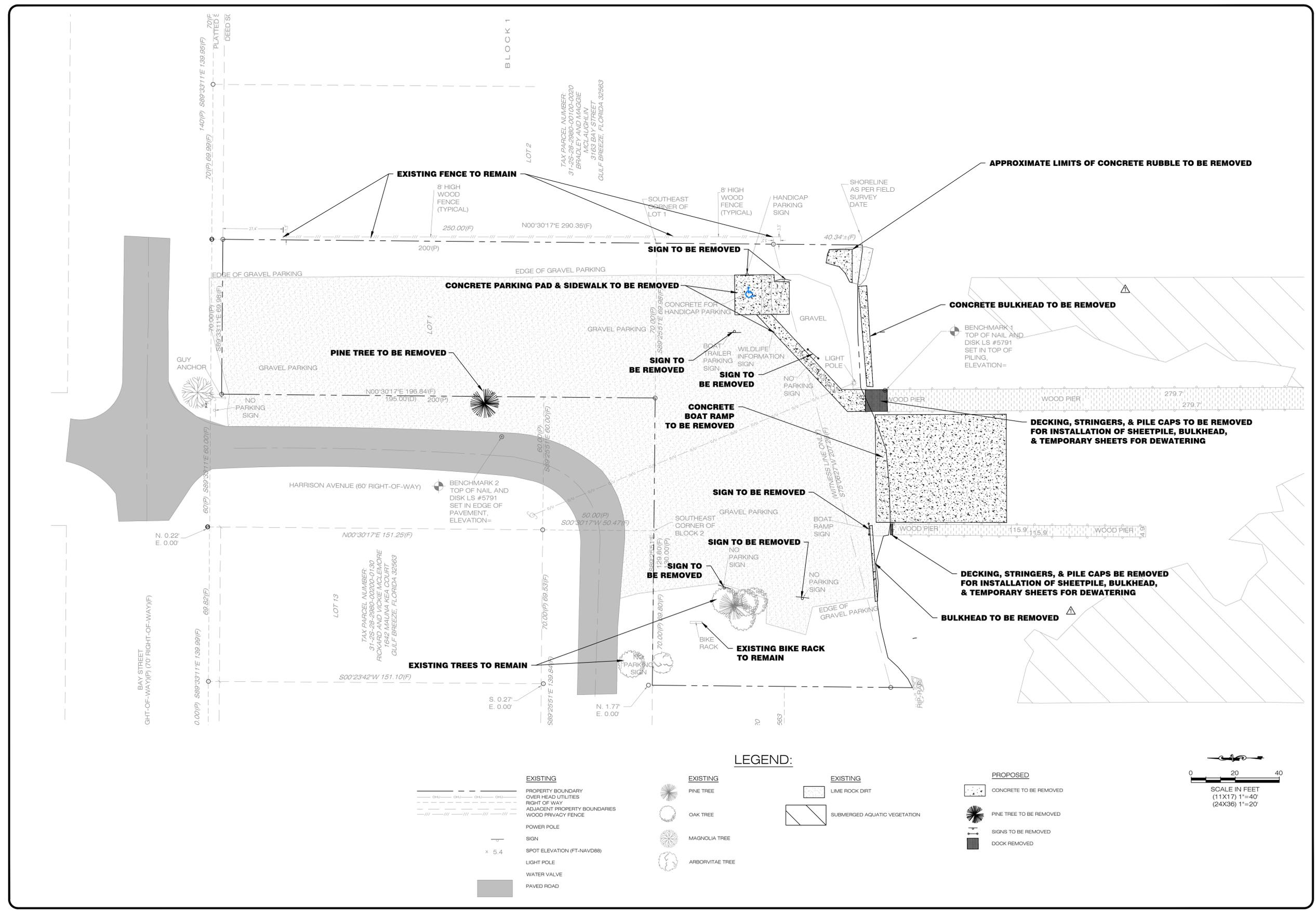
REV	DATE	NOTES	DATE DRAWN	PROJECT NO.
▲	2025-12-29	NO AUTHORITY COMMENTS	12/18/2024	1005181 003
DRAWN BY		CHECKED BY		
ACON		MPW		

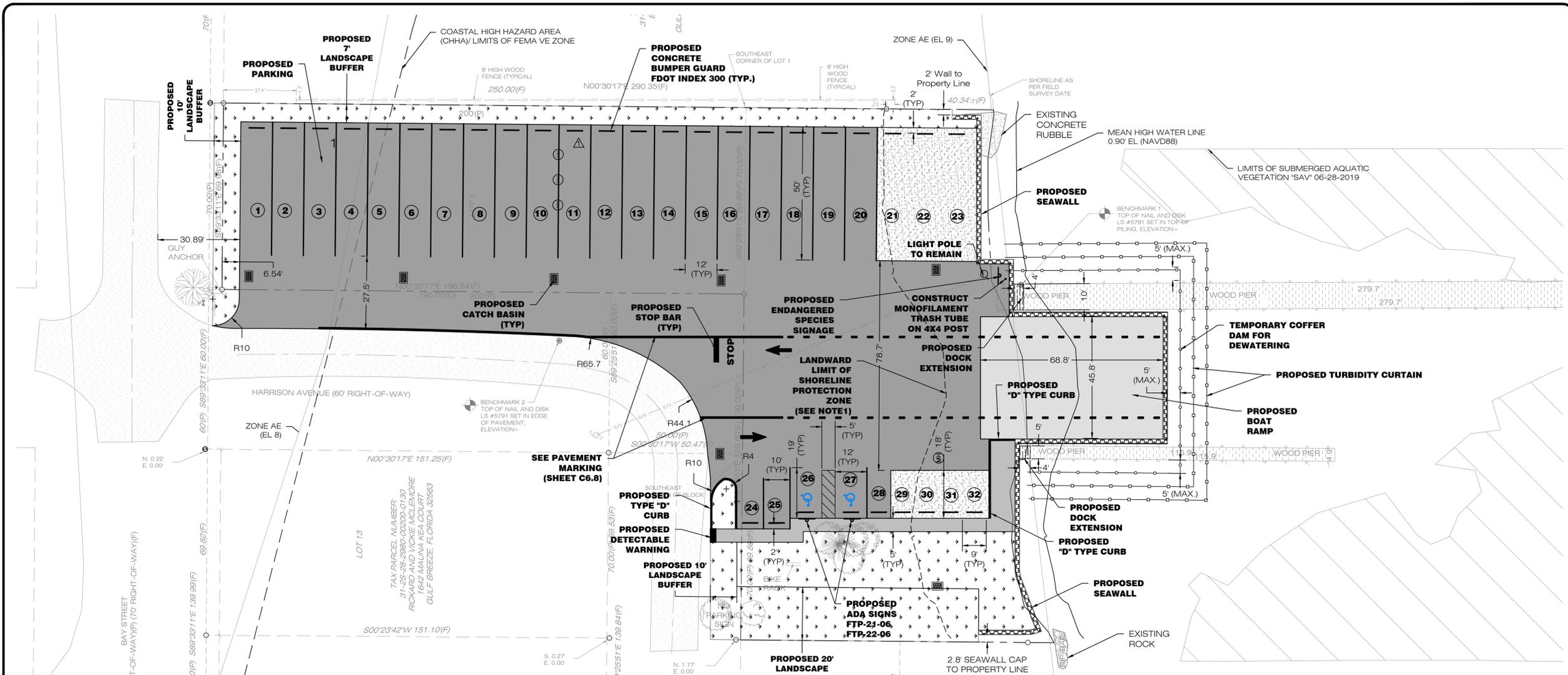
C1.0

BID SET

DEMOLITION PLAN
 ORIOLE BEACH BOAT RAMP IMPROVEMENTS
 FOR
 SANTA ROSA COUNTY

REV	DATE	NOTES
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DRAFTER: ACN DATE DRAWN: 12/18/2024 CHECKED BY: MPW PROJECT NO. 1005181_003		

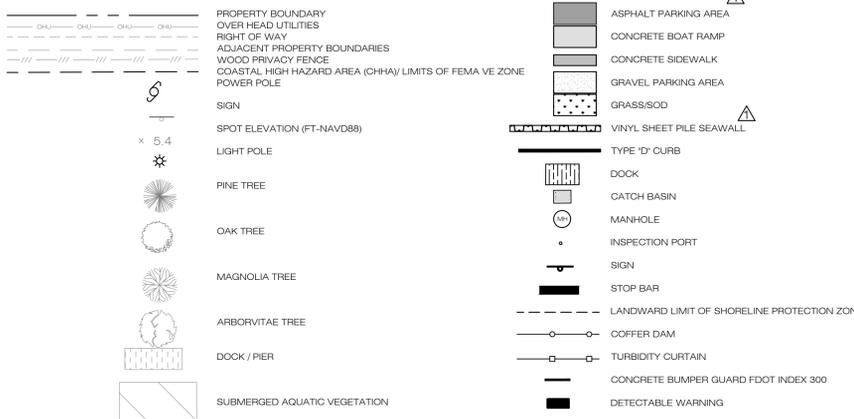




EXISTING - TO REMAIN

LEGEND:

PROPOSED

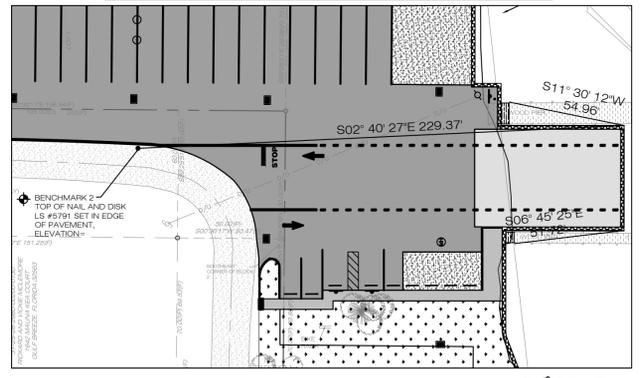


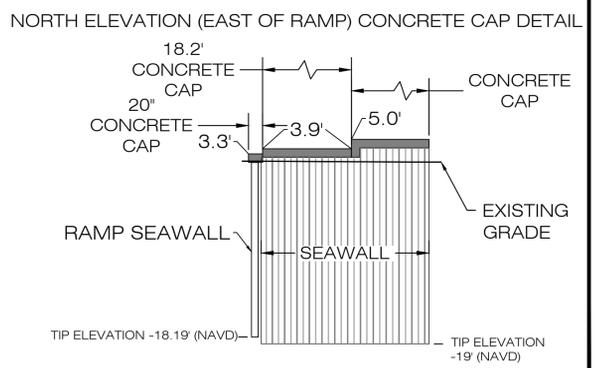
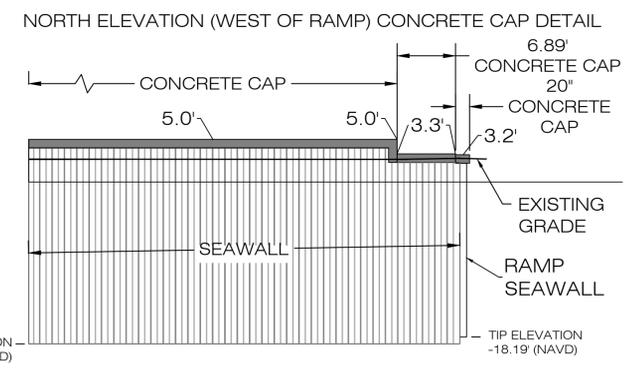
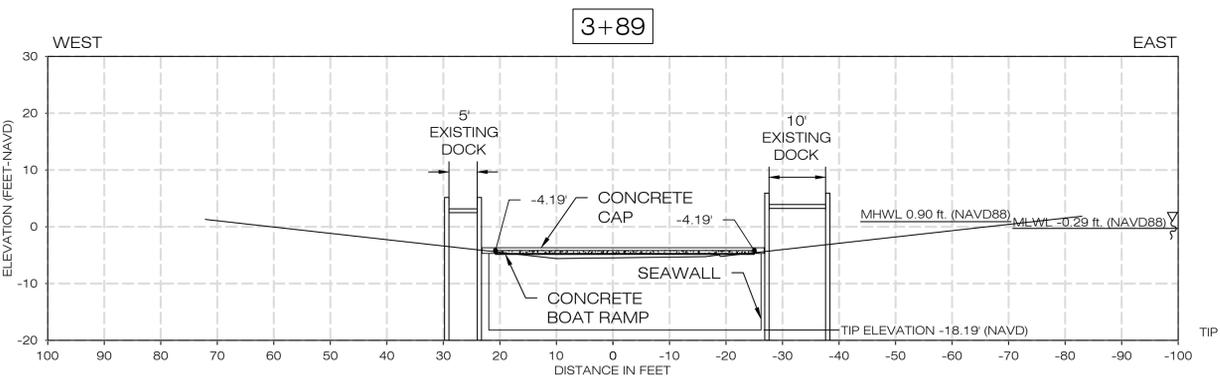
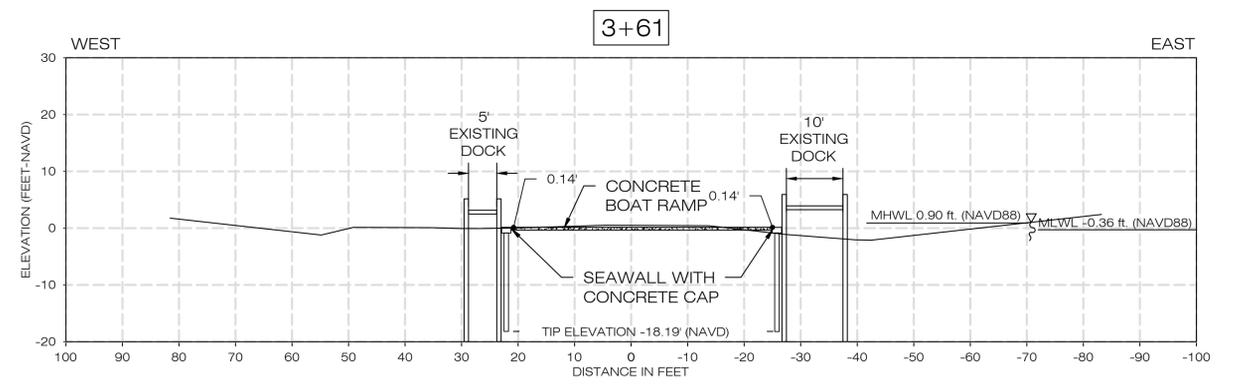
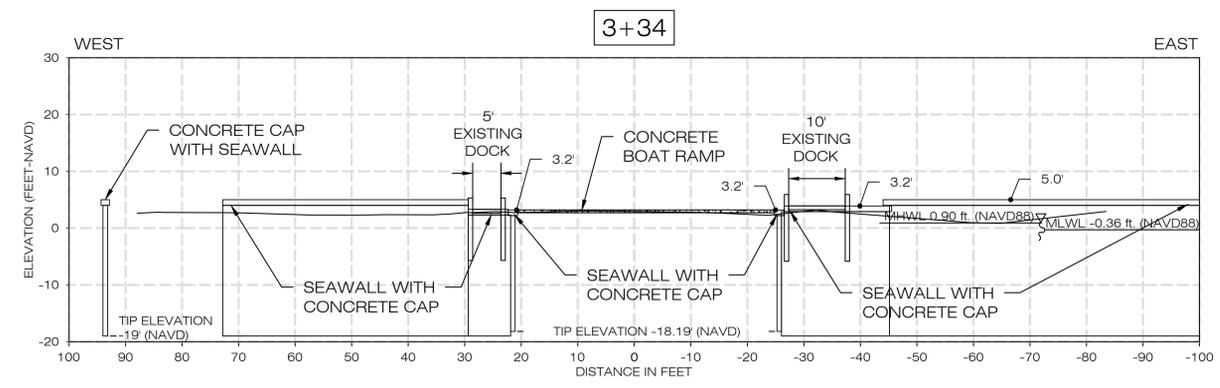
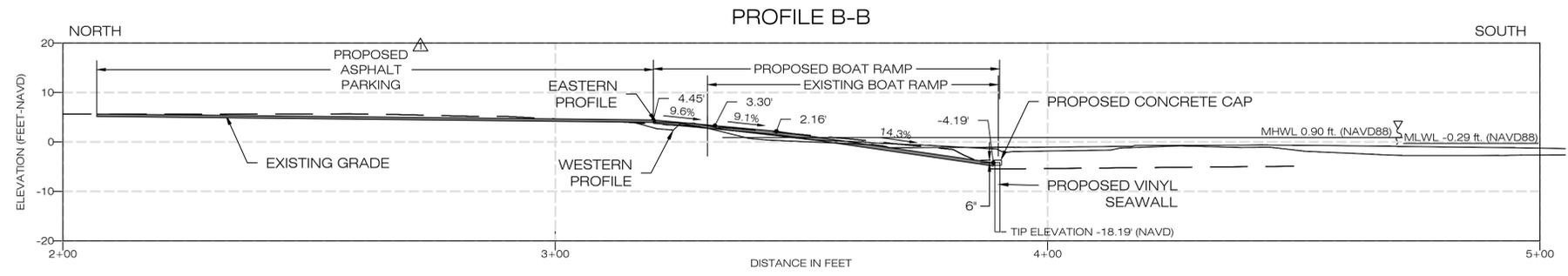
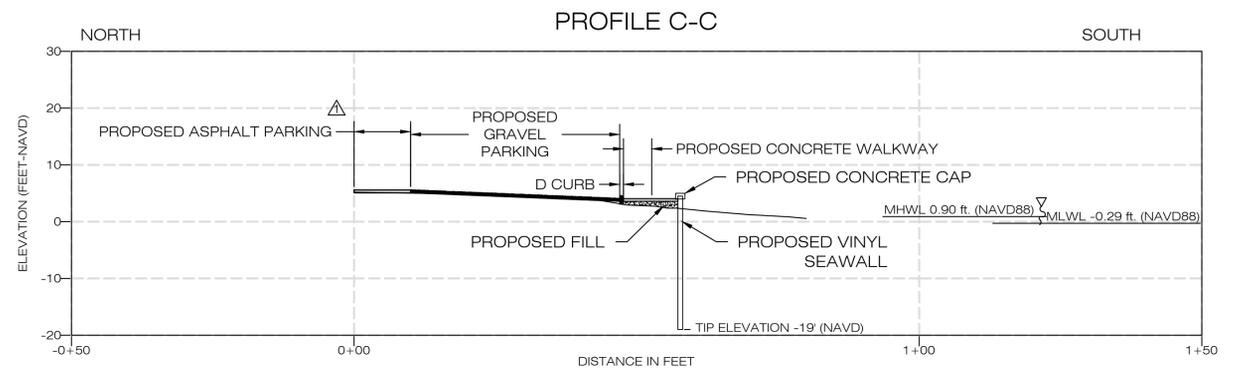
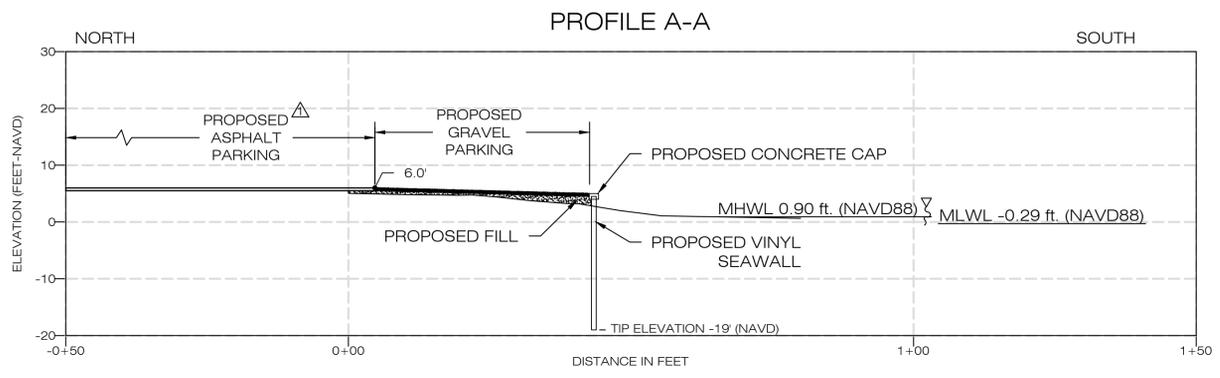
- NOTES:
1. LANDWARD LIMIT OF SHORELINE PROTECTION ZONE SHOWN FOR PERMITTING SUPPORT PURPOSES.
 2. RAMP STRUCTURE DISTANCE MAP PROVIDED FOR PERMITTING SUPPORT PURPOSES.

SITE DATA TABLE	
PARCELS ID NUMBERS	31-25-28-2980-00100-0010 & 31-25-28-2980-00000-PARK
EXISTING PARCELS AREAS	0.32 AC (13,780 SF) & 0.46 AC (20,060 SF)
PROPOSED PROJECT AREA	0.96 AC (41,787 SF)
ADDRESS	3187 LINDEN AVE GULF BREEZE, FLORIDA, 32563
JURISDICTION	SANTA ROSA COUNTY
ZONING DESIGNATION	R1 & P2
ADJACENT ZONING	R1
FEMA FLOOD ZONE DESIGNATION (EFFECTIVE)	ZONE AE (EL 8), ZONE AE (EL 9) & Zone VE (EL 12)
EXISTING USE	Public County Boat Ramp and Parking
PROPOSED USE	Public County Boat Ramp and Parking
PROPOSED BUILDING AREA	0 SF
NUMBER OF FLOORS	0
FLOOR AREA	0
IMPERVIOUS AREA	0.70 ACRES (30,495 SQFT)
IMPERVIOUS SURFACE RATIO	74% (INCLUDING GRAVEL)
PERVIOUS AREA	0.24 ACRES (10,625 SQFT)
STANDARD PARKING SPACES PROVIDED ONSITE	30
ADA PARKING SPACES PROVIDED ONSITE	2
PARKING SPACES PROVIDED OFFSITE	0
TOTAL PARKING SPACES PROVIDED	32
BIKE PARKING PROVIDED	2 EXISTING TO REMAIN

SANTA ROSA COUNTY SETBACKS AND BUFFERS		
SETBACKS FRONT (NORTH)	MIN. REQUIRED	PROPOSED
	10	10 FT
LANDSCAPE BUFFER FRONT (NORTH)		PROPOSED
		10 FT
		10 FT
		7 FT
		20 FT

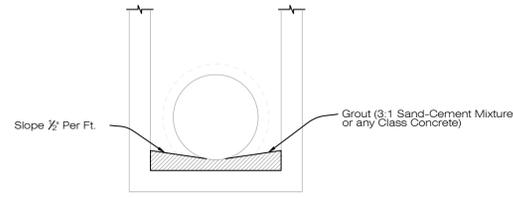
RAMP STRUCTURE DISTANCE MAP:





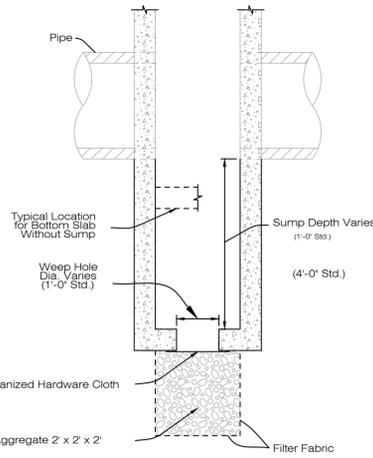
PROFILE AND CROSS-SECTIONS
 ORIOLE BEACH BOAT RAMP IMPROVEMENTS
 FOR
 SANTA ROSA COUNTY

REV	DATE	NOTES
1	2025-12-29	NO. 1005181/003 COMMENTS
DRAFTER: ACN DATE DRAWN: 12/18/2024 CHECKED BY: MPW PROJECT NO. 1005181 003		



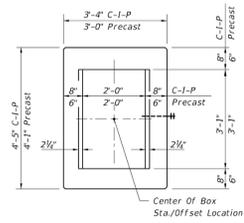
NOTE: For all structures unless excluded by special detail.

DRAINAGE STRUCTURE INVERT

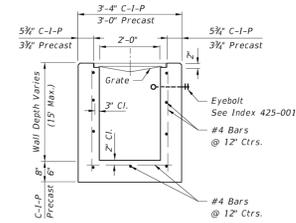


No. 4 Coarse Aggregate 2' x 2' x 2'

SUMP AND WEEP HOLE TO BE PROVIDED ON STRUCTURES D-1, D-2, D-3, D-4, D-5, D-6, D-7, D-8, D-9, D-10



PLAN



SECTION

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

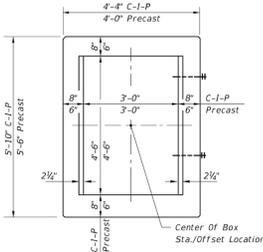
WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-15"	A12	0.20	12"	8"

TYPE C

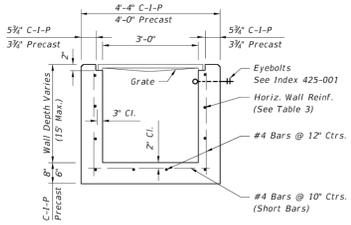
Recommended Maximum Pipe Size:

2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

FDOT DRAINAGE STRUCTURES D-1, D-2, D-5, D-6, D-7, D-8, & D-9 INDEX 425-052 (TYPE C)



PLAN



SECTION

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

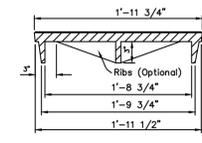
WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	A12	0.20	12"	8"
0'-7.5"	A6	0.20	6"	5"
7.5'-10'	B5.5	0.24	5 1/2"	5"
10'-15'	C6.5	0.37	6 1/2"	6"

TYPE E

Recommended Maximum Pipe Size:

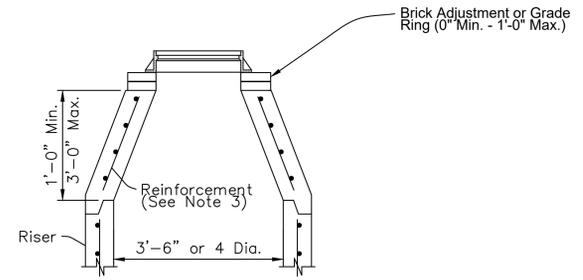
3'-0" Wall - 24" Pipe
4'-6" Wall - 36" Pipe

FDOT DRAINAGE STRUCTURE D-3 INDEX 425-052 (TYPE E)



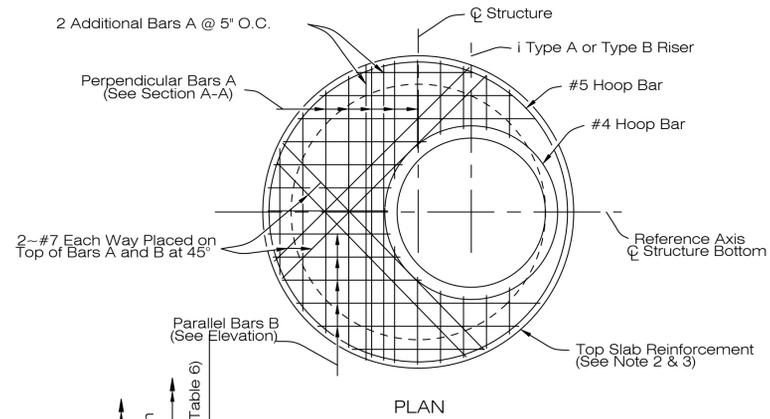
ELEVATION

1-PIECE COVER

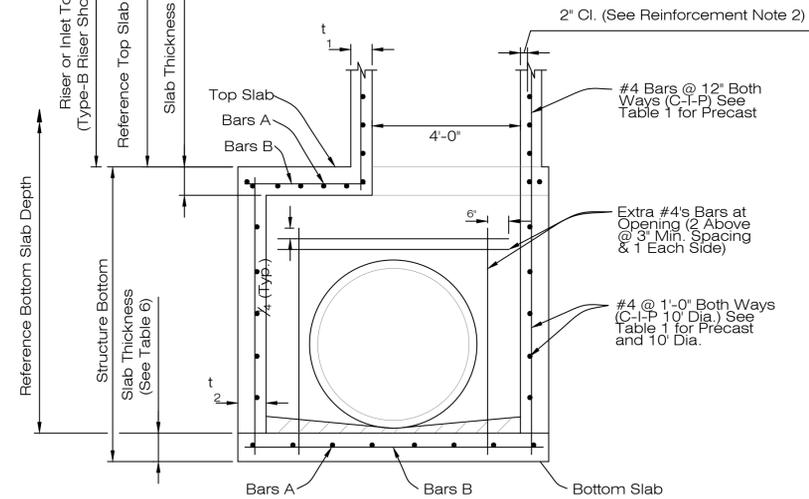


PRECAST CONCENTRIC CONE

TYPE 8



PLAN



ELEVATION

MANHOLE - FDOT TYPE J BOTTOM - ALTERNATE A DRAINAGE STRUCTURES D-4, D-10, & D-21



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CERTIFICATE OF AUTHORIZATION NUMBER: 0004165
3625 20TH STREET, VERO BEACH, FL 32960 (772) 662-6660

CHARLES T. FONTANE III, P.E. DATE
FLORIDA P.E. LICENSE NUMBER 73042

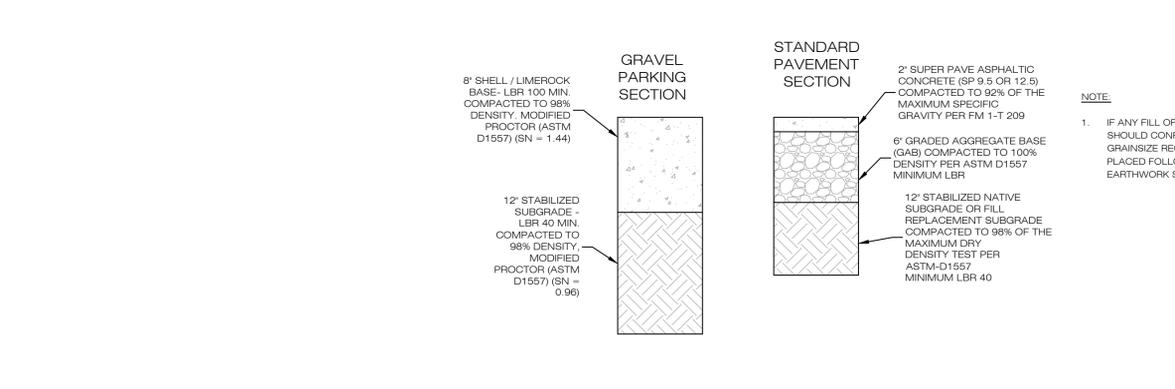
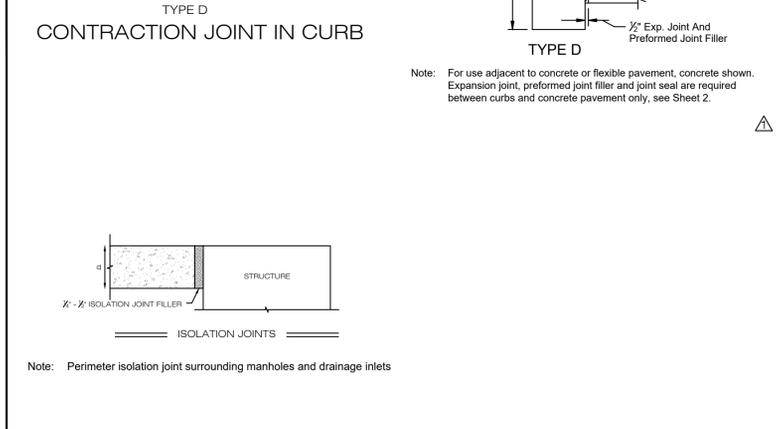
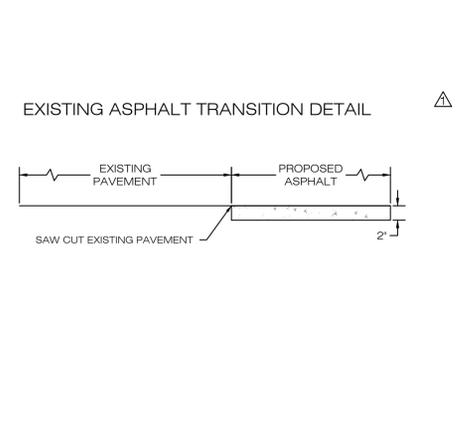
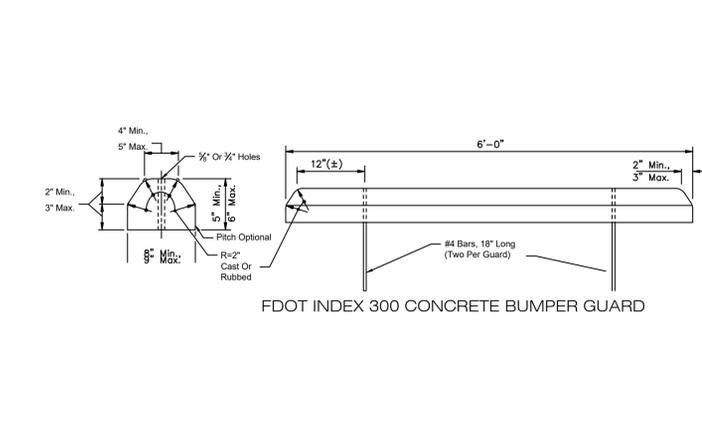
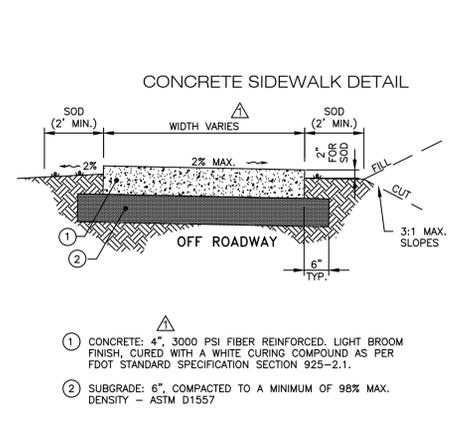
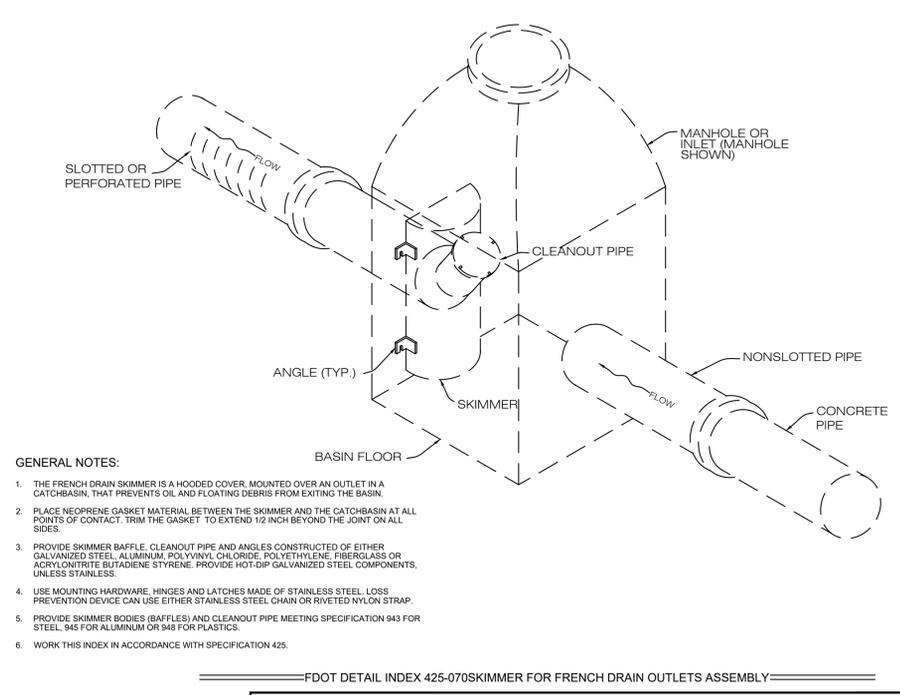
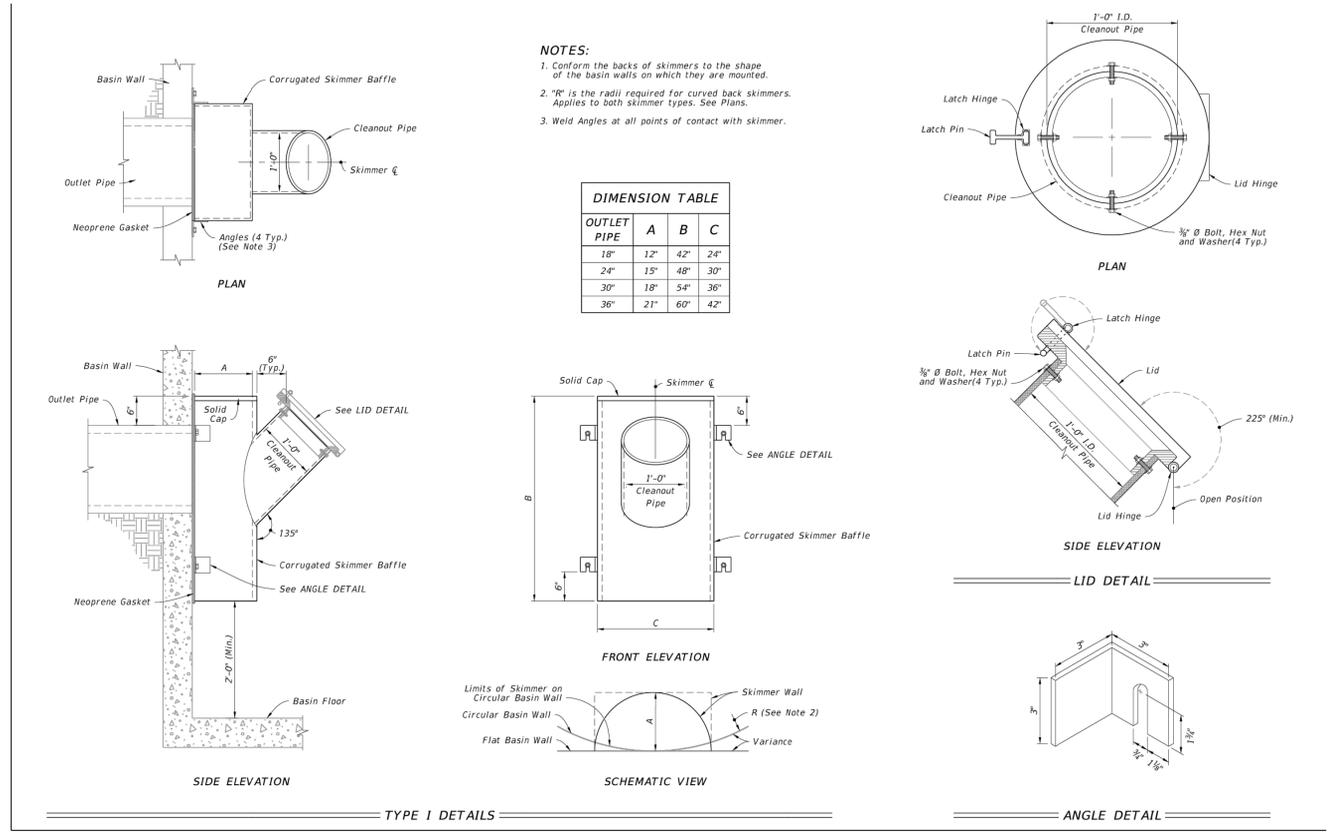
PAVING, GRADING, & DRAINAGE DETAILS

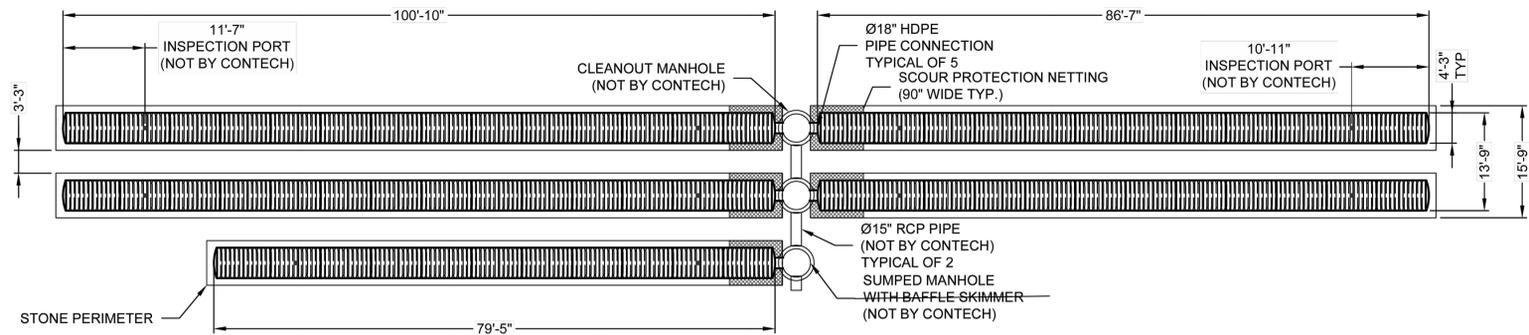
ORIOLE BEACH BOAT RAMP IMPROVEMENTS FOR SANTA ROSA COUNTY

REV	DATE	NOTES
1	2024-12-20	REVISED DRAINAGE COMMENTS
2	2024-02-20	REVISED PERMIT

DRAWN: ACN DATE DRAWN: 12/18/2024
CHECKED BY: MPW
PROJECT NO. 1005181.003

REV	DATE	NOTES
1	2025-12-23	NO. 1005181 COMMENTS
DR	ACN	DATE DRAWN: 12/18/2024
CHK	MPW	CHECKED BY: MPW
PROJECT NO. 1005181_003		





ASSEMBLY
 SCALE: 1'=20'
 CHAMBER VOLUME: 2244 CF
 STONE VOLUME: 1334 CF
 TOTAL VOLUME: 3578 CF
 LOADING: H20/H25

ITEM NUMBER	ITEM DESCRIPTION	CES PART NUMBER	QTY	UNITS
1	CHAMBERMAXX START CHAMBER	APCM 003.3051.004	5	EA
2	CHAMBERMAXX MIDDLE CHAMBER	APCM 003.3051.005	53	EA
3	CHAMBERMAXX END CHAMBER	APCM 003.3051.006	5	EA
4	CONTECH C-40 NON-WOVEN GEOTEXTILE 15 FT X 360 FT	APCM 001.0015.002	2	ROLL
5	CMX SCOUR NET HP300, 8" WIDE (281' MAX. LENGTH)	APCM 007.0075.002	5 @ 7.5'	QTY @ LF
6	315ST CONTAINMENT ROW LINER, 360 FT x 12.5 FT	APCM 007.0015.015	1	ROLL
7	CONTAINMENT ROW 18" HDPE CONNECTOR PIPE	APCM 001.0024.004	5 @ 1.25'	QTY @ LF

ITEM NUMBER	ITEM DESCRIPTION	CES PART NUMBER	QTY	UNITS
8	INSTALLATION GUIDE	N/A	1	EA

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MARK	DATE	REVISION DESCRIPTION	BY

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 ENGINEERED SOLUTIONS LLC
 www.ContechES.com
 9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069
 800-338-1122 513-645-7000 513-645-7993 FAX

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CHAMBERMAXX RETENTION SYSTEM - 726090-10
 Oriole Beach Boat Ramp Improvements
 Gulf Breeze, FL
 SITE DESIGNATION: N/A

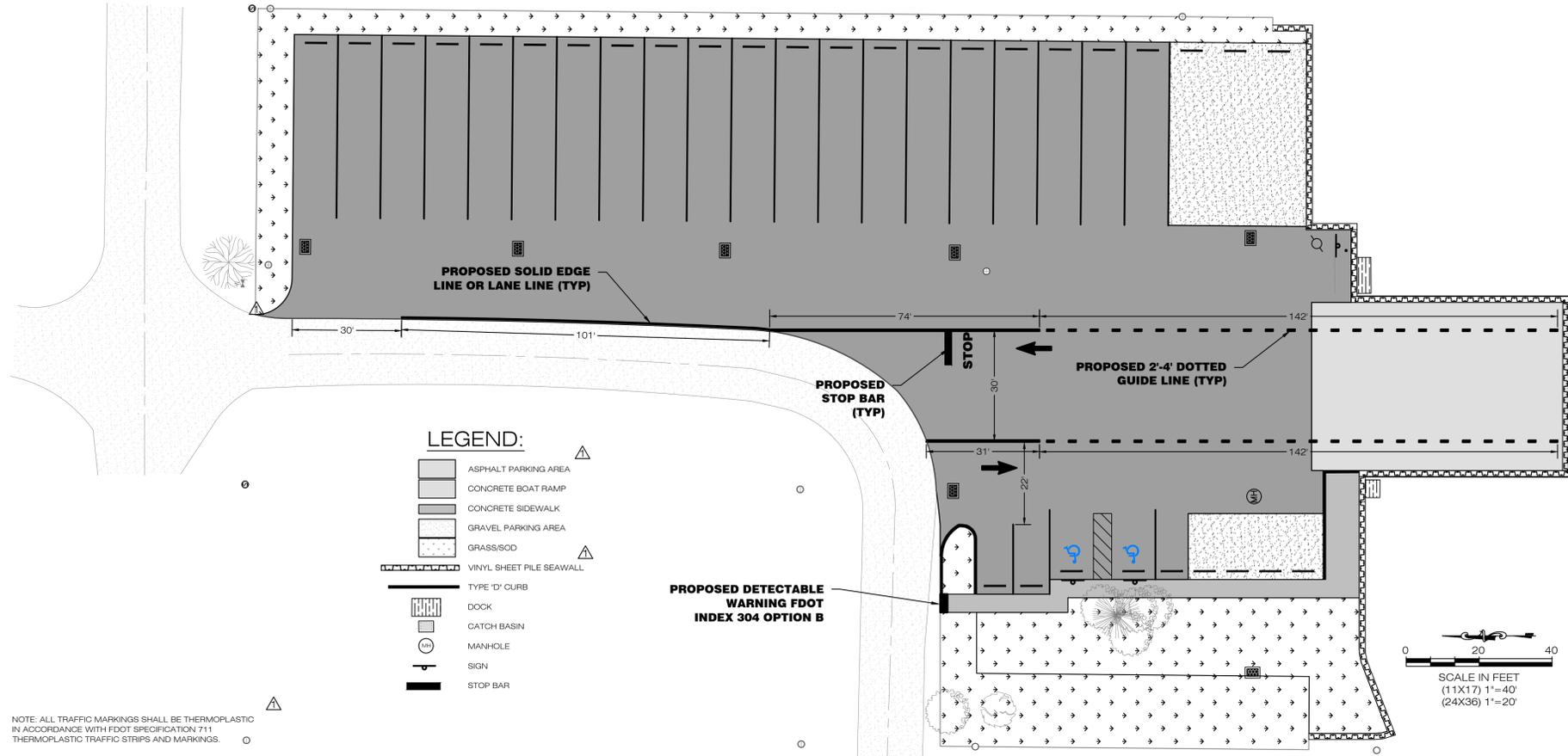
PROJECT No.: 726090	SEQ. No.: 10	DATE: 12/10/25
DESIGNED: JRS	DRAWN: JRS	
CHECKED: ---	APPROVED: ---	
SHEET NO.: 1 OF 3		

CHARLES T. FONTANE III, P.E. DATE
 FLORIDA P.E. LICENSE NUMBER 73042

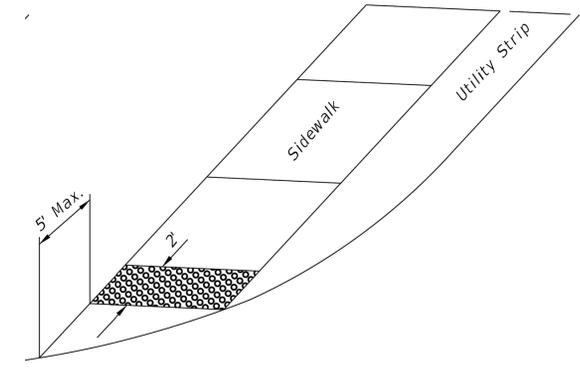
PAVING, GRADING, & DRAINAGE DETAILS
 ORIOLE BEACH BOAT RAMP IMPROVEMENTS
 FOR
 SANTA ROSA COUNTY

REV	DATE	NOTES	DATE DRAWN
1	2025-12-20	FOR PRELIMINARY COMMENTS	12/18/2024
2	2025-02-20	FOR PRELIMINARY COMMENTS	

DRAWN: ACN
 CHECKED BY: MPW
 PROJECT NO.: 1005181 003

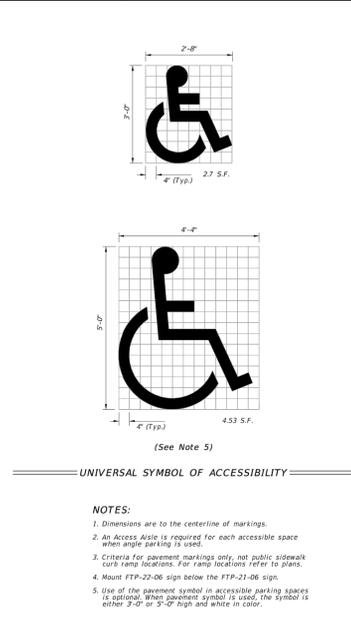
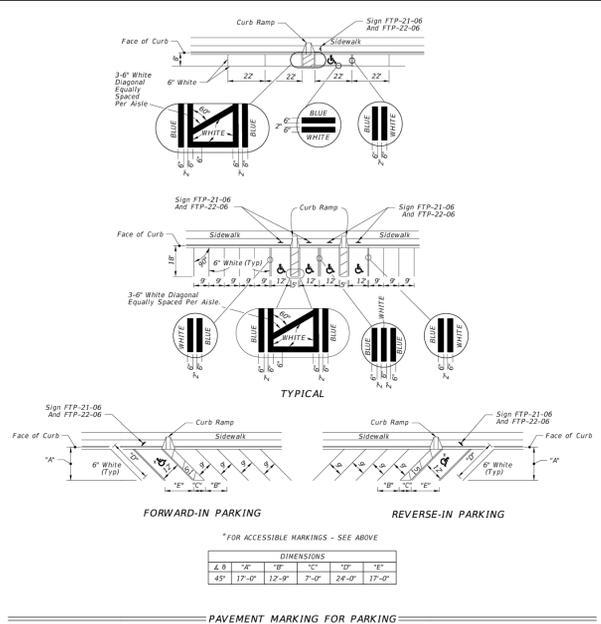
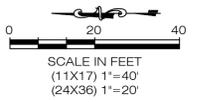


NOTE: ALL TRAFFIC MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT SPECIFICATION 711 THERMOPLASTIC TRAFFIC STRIPS AND MARKINGS.

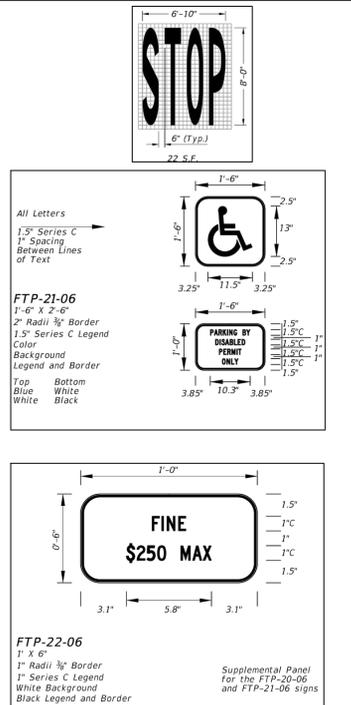
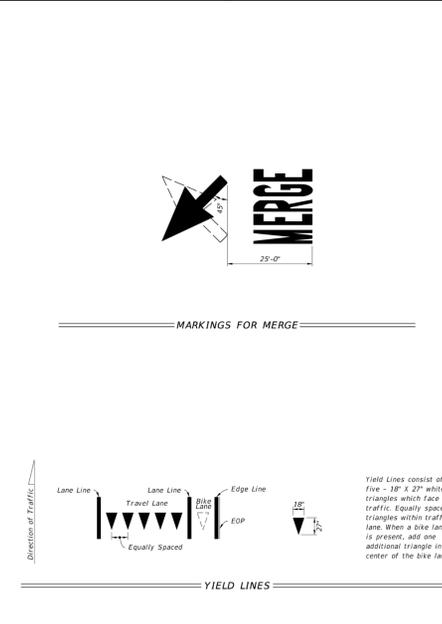
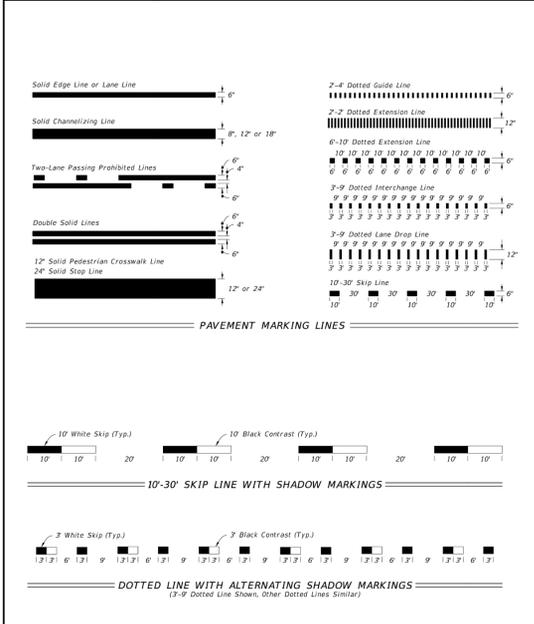


PICTORIAL VIEW
FLUSH SHOULDER
(OPTION B)

FDOT INDEX 304 DETECTABLE WARNING



NOTES:
1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Mount FTP-22-06 sign below the FTP-21-06 sign.
5. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0\"/>



LAST REVISION	DESCRIPTION:
11/01/21	

FDOT	FY 2022-23	PAVEMENT MARKINGS	INDEX	SHEET
	STANDARD PLANS		711-001	11 of 13

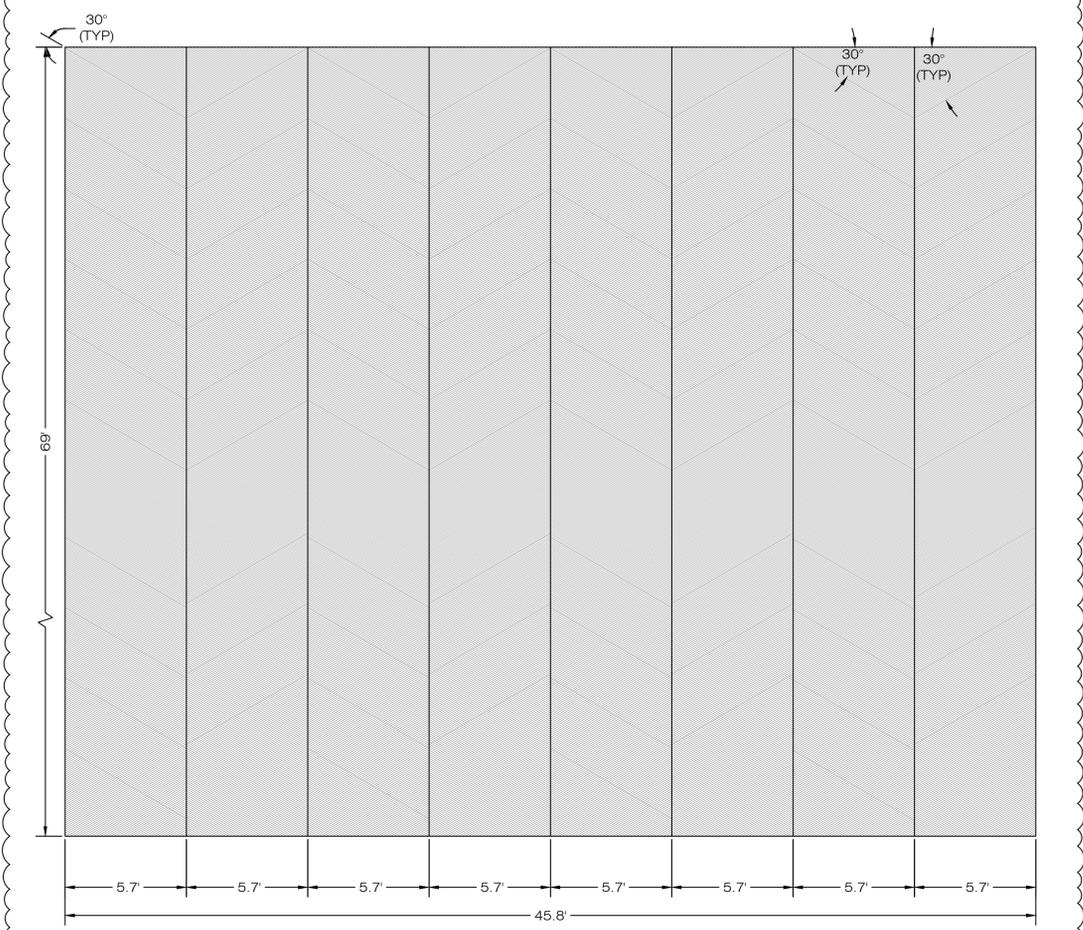
LAST REVISION	DESCRIPTION:
11/01/21	

FDOT	FY 2022-23	PAVEMENT MARKINGS	INDEX	SHEET
	STANDARD PLANS		711-001	2 of 13

REV	DATE	NOTES	DATE DRAWN	PROJECT NO.
1	2025-12-23	NO AUTOMATIC COMMENTS	12/18/2024	1005181 003
			DRAWN BY: ACN	
			CHECKED BY: MPMW	

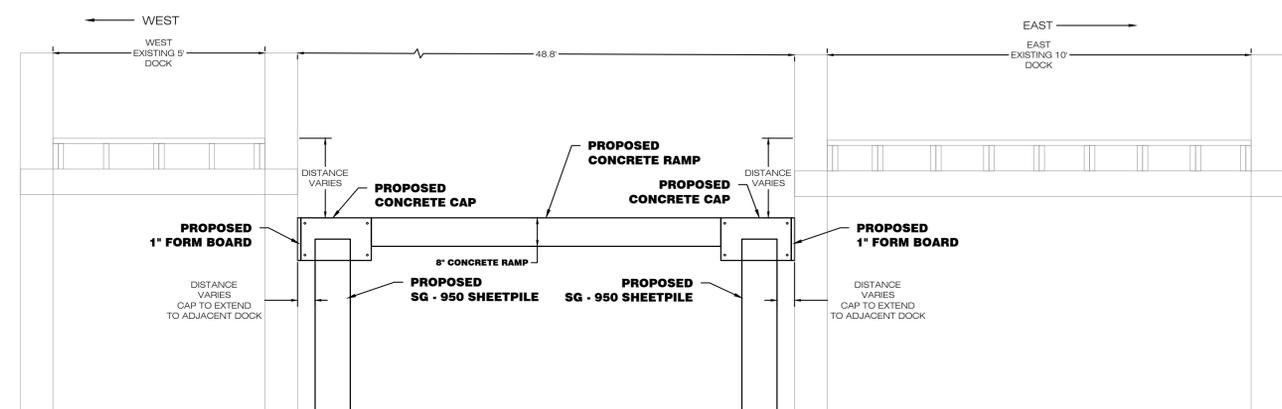
RAMP DETAILS

CONCRETE RAMP GROOVING LAYOUT (NTS)

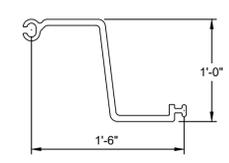


SEAWALL DETAILS

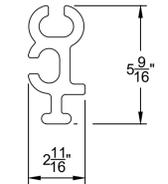
SEAWALL ELEVATION



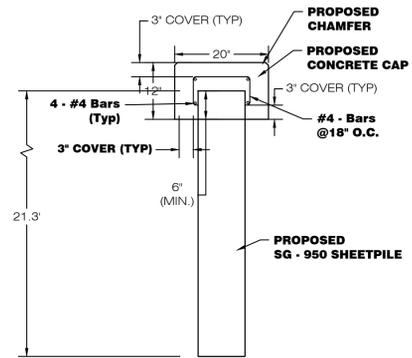
SG-950 PLAN VIEW



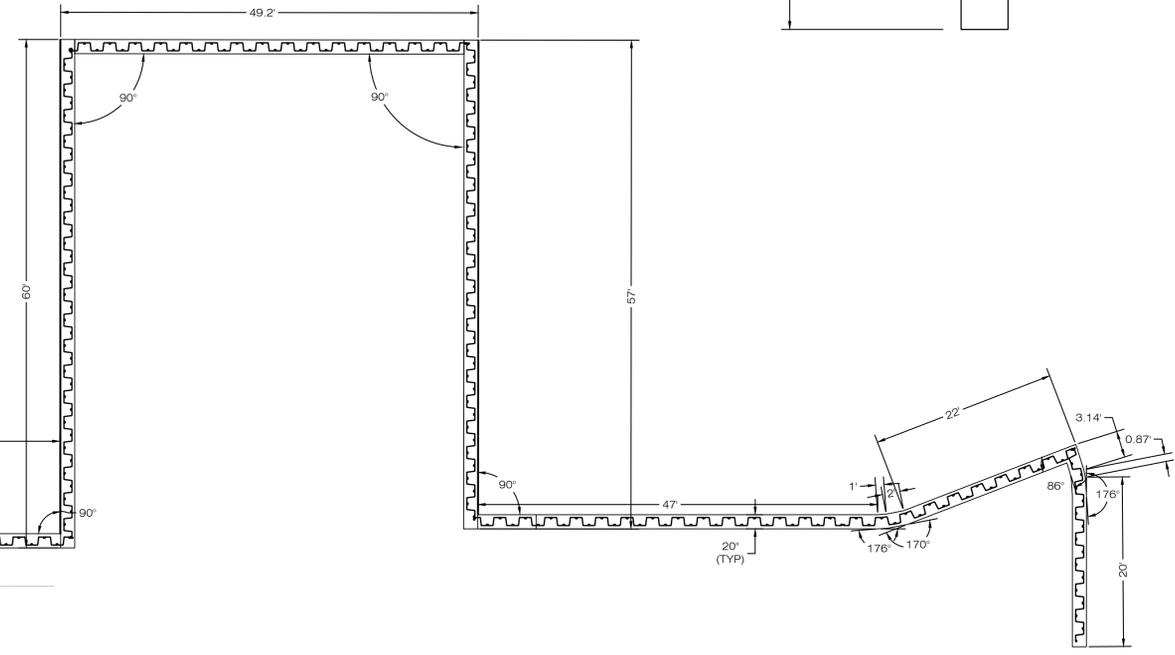
SG 950 PLAN VIEW



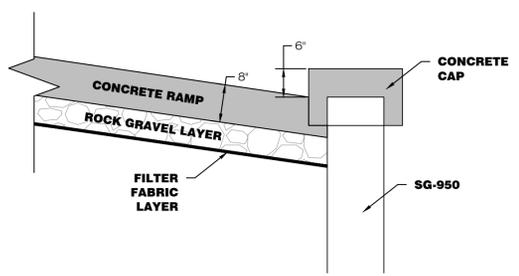
SEAWALL DETAIL



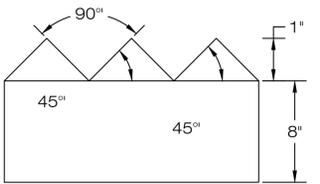
SEAWALL SHEET PILE LAYOUT



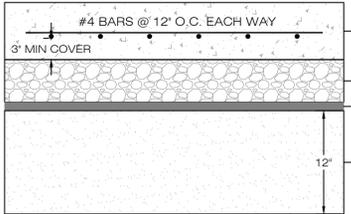
RAMP & SEAWALL SECTION DETAIL



CONCRETE RAMP GROOVING DETAIL



CONCRETE RAMP SECTION



8\"/>

SUBGRADE AND FILL TO BE COMPACTED TO MINIMUM 95% (ASTM D1557) LBR 40 MIN.



COASTAL - ENVIRONMENTAL - CIVIL ENGINEERING AND PLANNING
 CERTIFICATE OF AUTHORIZATION NUMBER: 06034165
 3625 20TH STREET, VERO BEACH, FL 32960 (772) 662-6680

RAMP & SEAWALL DETAILS

ORIOLE BEACH BOAT RAMP IMPROVEMENTS
 FOR
 SANTA ROSA COUNTY

REV	DATE	NOTES
1	2024-12-20	NOV QUANTITY COMMENTS
2	2025-02-20	REV QUANTITY QUANTITY
DR	ACN	DATE DRAWN: 12/18/2024
CHK	BY: MPW	CHECKED BY: MPW
PROJECT NO. 1005181 003		

