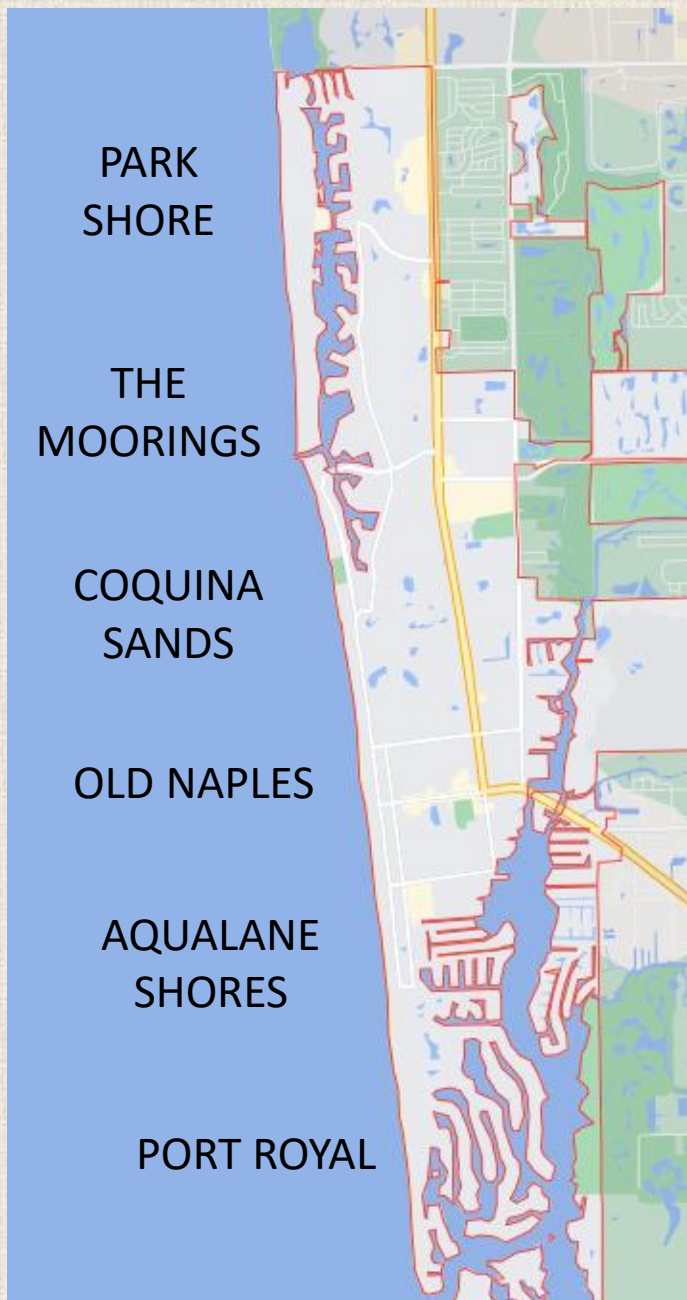




GULF SHORE BOULEVARD NORTH OUTLOT E SEAWALL REPLACEMENT PROJECT

SEPTEMBER 2022





PARK SHORE

THE MOORINGS

COQUINA SANDS

OLD NAPLES

AQUALANE SHORES

PORT ROYAL

CITY OF NAPLES



Photo: parkshoreperspective.com/luxury-houses/

PARK SHORE / VENETIAN BAY

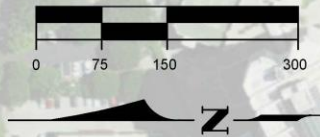
BIG PICTURE

- CITY OWNS APPROXIMATELY 3,280 FT OF CONCRETE SEAWALL ALONG GULF SHORE BOULEVARD NORTH (GSBN)
- SEAWALLS PROTECT THE SHORELINE AT SIX OUTLOTS [A, B, C, D, E AND F] ADJACENT TO THE GSBN ROW
- EXCEPT FOR 750 FT ALONG SEAGATE DRIVE, 100 PERCENT OF THE SHORELINE WITHIN VENETIAN BAY AND INNER DOCTORS BAY IS HARDENED BY VERTICAL SEAWALLS





AERIAL PHOTOGRAPHY OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION, DATED 2016.



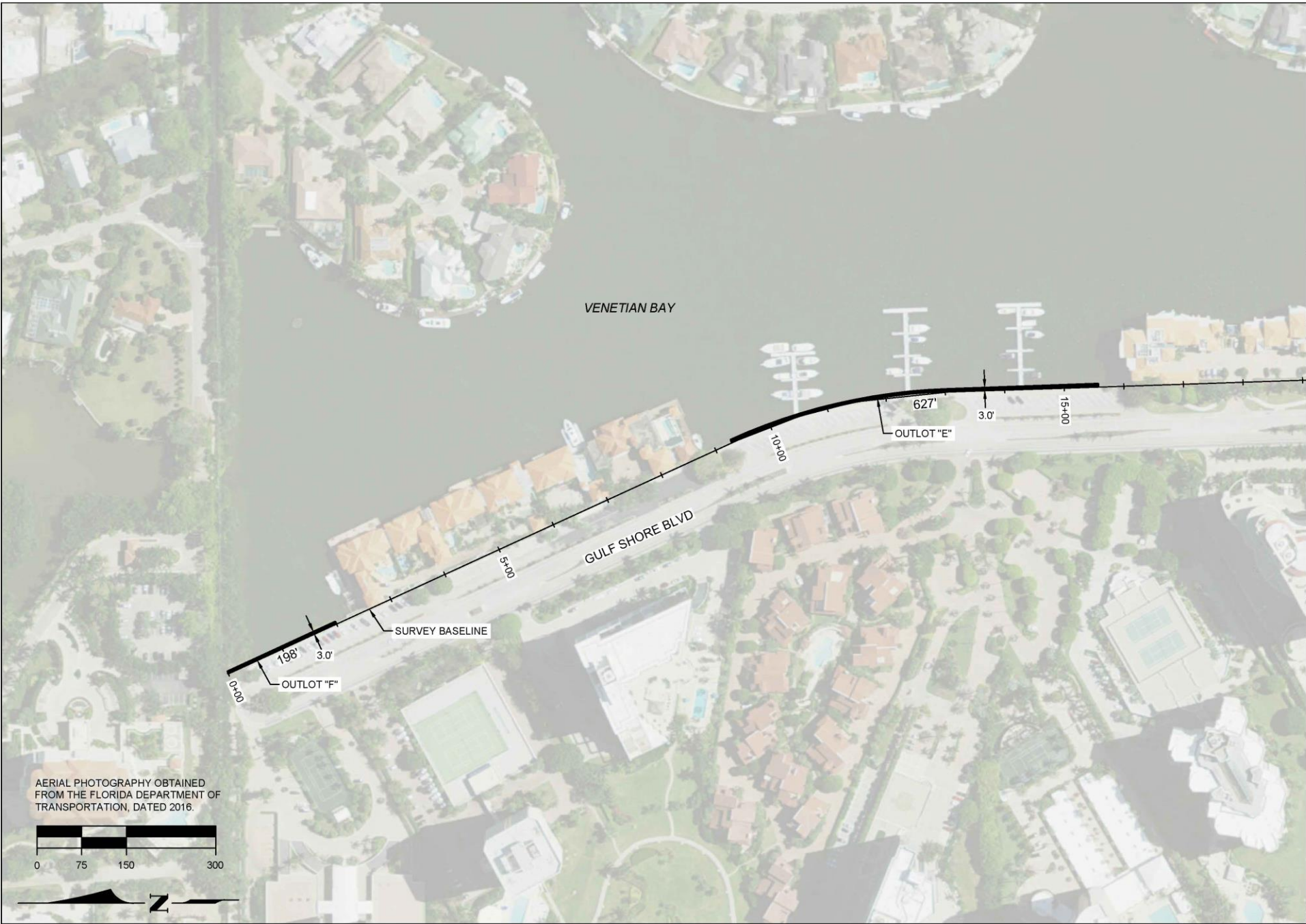
COASTAL ENGINEERING CONSULTANTS INC. <small>A GEO GROUP COMPANY</small> Serving Florida Since 1977 3108 SOUTH HORSESHOE DRIVE NAPLES, FLORIDA 34104	CLIENT: CITY OF NAPLES TITLE: MOORINGS BAY SEAWALLS OUTLOTS "A" AND "B" PLAN VIEW	DATE: 4/24/2012 DRAWN: [] CHECKED: [] SEC. [] RCAD NO. [] REF. NO. []	SCALE: AS NOTED SIDE: [] MAP: [] TWP: [] RING: [] RCAD NO. 16258.000 REF. NO. 16258.000
	CIVIL ENGINEERING SURVEY & MAPPING CONSULTANTS PLANNING SERVICES PHONE: (239)643-2324 FAX: (239)643-1143 www.coastalengineering.com E-Mail: info@cei.com	SHEET 3 FILE NO. 16258	NO. [] DATE [] BY []



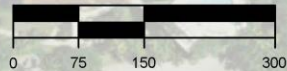
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	TITLE MOORINGS BAY SEAWALLS OUTLOTS "C" AND "D" PLAN VIEW		DRAWN CHECKED SEC. REVISION DESCRIPTION
COASTAL ENGINEERING CONSULTANTS INC. A GEO GROUP COMPANY Serving Florida Since 1977 3106 SOUTH HORSESHOE DRIVE NAPLES, FLORIDA 34104	DATE 10/25/16	DRAWN CHECKED SEC. REVISION DESCRIPTION	SCALE AS NOTED
SHEET 2 FILE NO. 16258	DATE 10/25/16	DRAWN CHECKED SEC. REVISION DESCRIPTION	SCALE AS NOTED



AERIAL PHOTOGRAPHY OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION, DATED 2016.



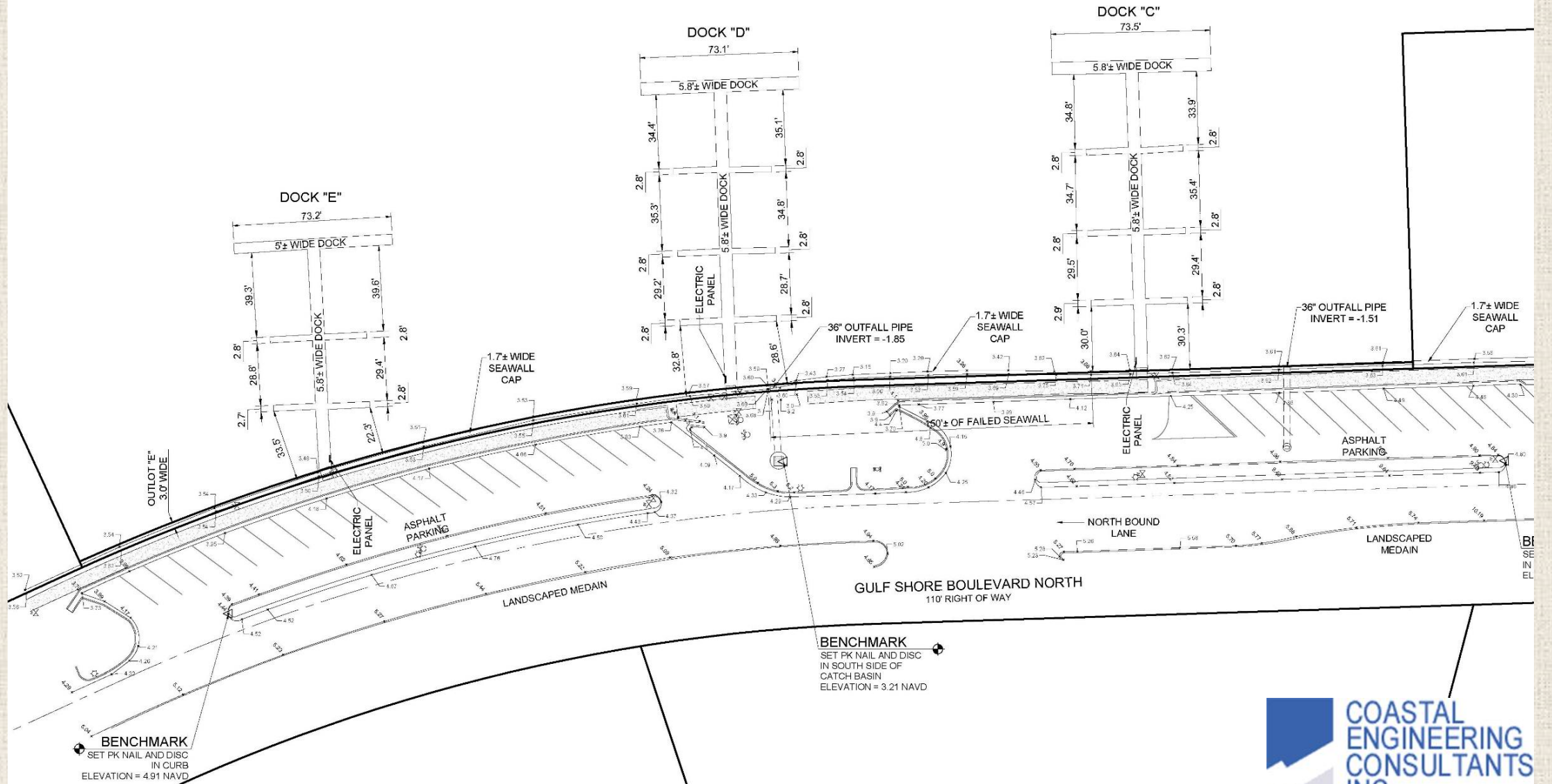
CIVIL ENGINEERING SURVEY & MAPPING COASTAL ENVIRONMENTAL PLANNING SERVICES PHONE: (239)643-2324 FAX: (239)643-1143 www.coastalengineering.com E-Mail: info@ceai.com	CLIENT: CITY OF NAPLES	DATE: 4/24/2017 DRAWN: [blank] CHECKED: [blank] RECD NO: 16258.000	SCALE: AS NOTED SHEET NO. [blank] MAP NO. [blank] TWP. [blank] RANG. [blank]	AS NOTED [blank] [blank] [blank]
	TITLE: MOORINGS BAY SEAWALLS OUTLOTS "E" AND "F" PLAN VIEW	REVISION NO. [blank] DATE [blank] BY [blank]	REVISION DESCRIPTION [blank]	[blank]

COASTAL ENGINEERING CONSULTANTS INC.
 A CECO GROUP COMPANY
 3106 SOUTH HORSESHOE DRIVE
 NAPLES, FLORIDA 34104

VICINITY MAP

OUTLOT E

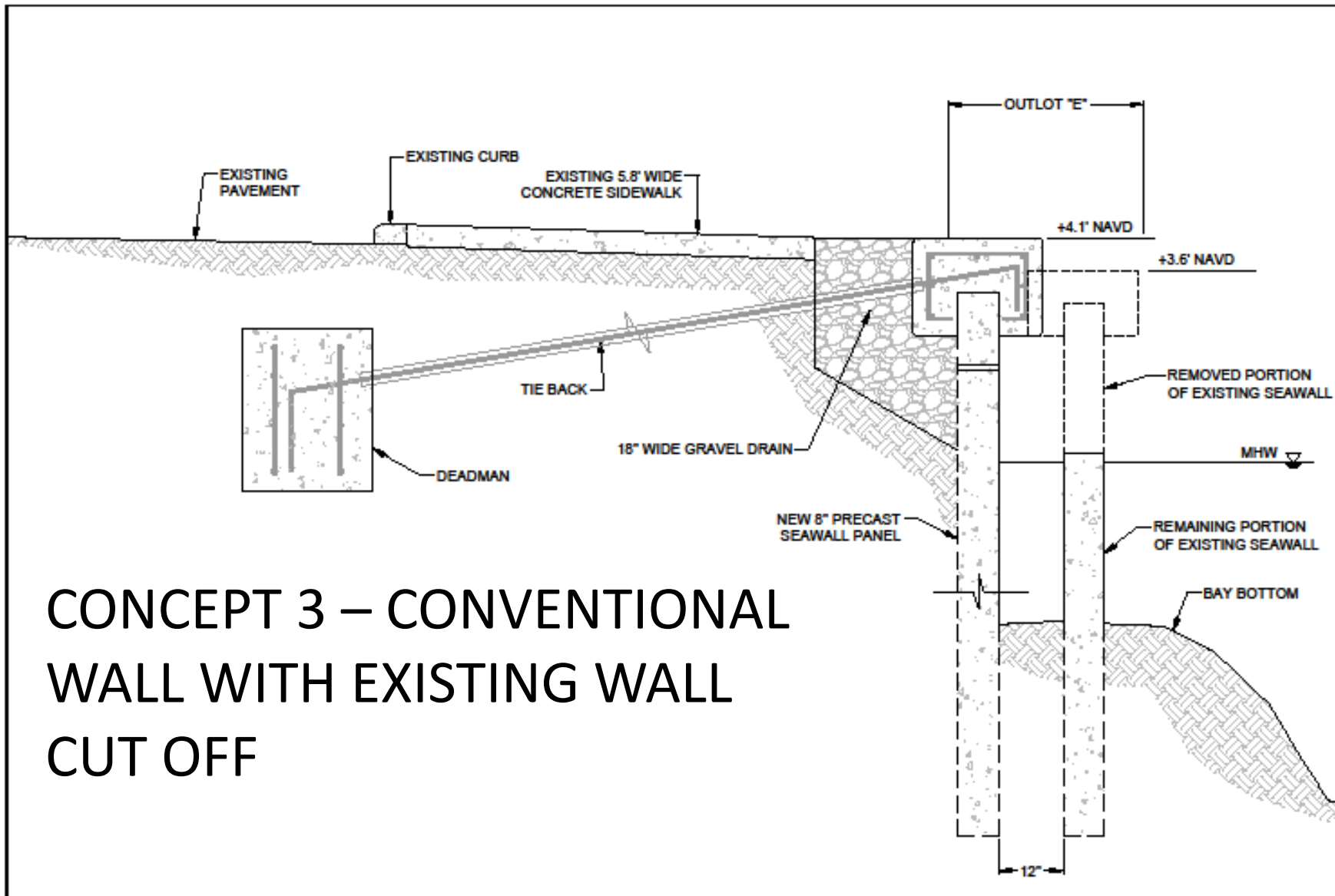
VENETIAN BAY




THE ISSUE

- FAILED 150 FT SECTION OF SEAWALL AT OUTLET “E”
- OVER 40 YEARS OLD
 - 2015 – INITIAL WALL MOVEMENT, IMPROPER EMBEDMENT OF TIE RODS INTO CONCRETE CAP BEAM
 - 2017 - HEAVY RAINS AND EXTREME LOW WATER CAUSED BY HURRICANE IRMA RESULTED IN SIGNIFICANT ROTATION OF TOP OF WALL





CONCEPT 3 – CONVENTIONAL WALL WITH EXISTING WALL CUT OFF

 COASTAL ENGINEERING CONSULTANTS INC. Serving Coastal Communities Since 1977 28421 BONITA CROSSINGS BLVD BONITA SPRINGS, FLORIDA 34135	COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEY AND MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464	CLIENT: CITY OF NAPLES TITLE: GULF SHORE BLVD N SEAWALL REPLACEMENT CONCEPT	DATE: 10/04/2021 DRAWN: SCB CHECKED: MAK SRC: TWP ADASD: 21285 Seawall Concept 1.dwg P&P NO: 21_285	SCALE: 1" = 2' P&P NO: 21_285	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	REVISION DESCRIPTION												
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CONCEPT 3 RENDERING