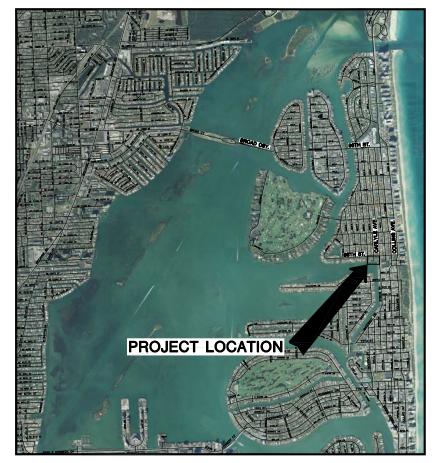
SURFSIDE SEAWALL DESIGN

CARLYLE AVENUE TOWN OF SURFSIDE, FLORIDA

INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION				
G1	COVER SHEET				
G2	GENERAL NOTES				
C1	SEAWALL PLAN				
C2	PLAN AND ELEVATION DETAILS				
C3	CROSS SECTIONS AND DETAILS				
C4	POLLUTION PREVENTION DETAILS				



LOCATION MAP

SECTION 35 TWP. 52 S RNG.

RNG. 42 E



PERMITTING AGENCIES	DATE SUBMITTED	CGA INITIALS	DATE APPROVED	PERMIT NUMBER
DRER (DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES), MIAMI - DADE COUNTY	07-15-13	DF	08-08-13	CLI-2012-0370
USACE (UNITED STATES ARMY CORPS OF ENGINEERS)	02-14-13	DF	02-28-13	SAJ-2012-03416(NW-RR)
FDEP (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION)	02-14-13	DF	04-23-13	13-0316743-001,002

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1	NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

PLANS PREPARED BY:



Calvin, Giordano & Associates, Inc.

EXCEPTIONAL SOLUTIONS

1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316 Phone: 954.921.7781 • Fax: 954.921.8807

CERTIFICATE OF AUTHORIZATION 514



TOWN OFFICIALS

MAYOR: DANIEL DIETCH

COMMISSIONERS: MICHAEL KARUKIN

JOE GRAUBART MICHELLE KLIGMAN MARTA OLCHYK

TOWN MANAGER: MICHAEL CROTTY

NOTES:

- RESPONSIBILITY FOR THE USE OF THESE PLANS FOR ANY PURPOSE PRIOR TO SECURING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THIS PROJECT WILL FALL SOLELY UPON THE USER.
- AN ELECTRONIC CAD FILE WILL BE PROVIDED FOR SURVEY LAYOUT. SURVEYOR RESPONSIBLE FOR VERIFICATION OF ALL LOCATIONS IN ELECTRONIC FIL CONSTRUCTION LAYOUT IS THE SOLE RESPONSIBILITY OF THE SURVEYOR, AN THE FLECTRONIC CAD FILE IS PROVIDED ONLY AS A GENERIC GUIDE
- THE ELEVATIONS SHOWN ON THE DESIGN/CONSTRUCTION DRAWINGS ARE BASED ON T NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929. UNLESS OTHERWISE NOTED.

BENCHMARK:

SEE SHEET G2 FOR BENCHMARK INFORMATION.

SHOP DRAWINGS TO BE SUBMITTED TO:

CALVIN, GIORDANO & ASSOCIATES, INC. 1800 ELLER DRIVE SUITE 600 FORT LAUDERDALE, FL 33409 PHONE: 954-921-7781 FAX: 954-921-8807



FOR BIDDING PURPOSES ONLY

CURRENT REV No.: ----

DAVID W. FRODSHAM, P.E. STATE OF FLORIDA PROFESSIONAL ENGINEER ICENSE No. 75507

G1

G 0014

- THE BENCHMARK DATUM FOR THIS PROJECT IS NGVD 1929. THE BENCHMARK OF ORIGIN IS A DISK SET IN A LIGHT STRUCTURE WITH STAWPING T 243 1965. AT SURFSIDE, ABOUT 100 YARDS WEST OF THE INTERSECTION OF SURFSIDE BOULEVARD AND BAY DRIVE, SET ON THE TOP OF THE LAST END OF THE NORTH CONCRETE GUARDRAIL OF A BRIDGE OVER INDIAN CREEK WHICH LEADS WESTERLY TO INDIAN CREEK VILLAGE AND INDIAN CREEK GOLF COURSE, 21 FEET WEST OF THE WEST WALL OF THE GUARD HOUSE WHICH IS LOCATED AT THE EAST END OF THE BRIDGE, OF FOOT EAST OF THE FIRST LARGE CONCRETE POST IN THE BRIDGE GUARDRAIL WEST OF THE GUARD HOUSE AND ½ FOOT ABOVE THE LEVEL ROADWAY. THE ELEVATION IS 12,965 FEET (NGVD 29).
- 2. CONTRACTOR SHALL RESTORE ANY ADJACENT AREAS DAMAGED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE CONTRACT.
- 3. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS / ELEVATIONS APPLY ONLY AT THE POINT SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED. NOT ALL UTILITIES WITHIN THE VICINITY OF THE PROJECT ARE DEPICTED. AERIAL UTILITIES EXIST IN PROXIMITY OF PROJECT SITE.
- 4. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES IN ORDER THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.

UTILITY OWNERS/CONTACT PERSON:

CITY OF NORTH MIAMI BEACH PUBLIC UTILITES	305-948-2967 Ext: 7962
COMCAST CABLE	954-447-8405
PUBLIC WORKS - MDC	305-592-8925 Ext: 258
FLORIDA POWER & LIGHT	800-868-9554
FLORIDA POWER & LIGHT (TRANSMISSION)	305-228-5290
ATLANTIC COMMUNICATIONS	305-861-8069 Ext: 3204
TECO PEOPLES GAS — SOUTH FLORIDA	954-453-0824
ATT/DISTRIBUTION	305-222-8745
	COMCAST CABLE PUBLIC WORKS — MDC FLORIDA POWER & LIGHT FLORIDA POWER & LIGHT (TRANSMISSION) ATLANTIC COMMUNICATIONS TECO PEOPLES GAS — SOUTH FLORIDA

THE CONTRACTOR SHALL VERIFY IF OTHER UTILITIES NOT SHOWN IN PLANS EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD UTILITY CONFLICTS ARISE, THE CONTRACTOR SHALL INFORM THE ENGINEER, THE OWNER, AND THE UTILITY COMPANY OF THE CONFLICT.

5. ANY NAVD-88 OR NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE PROJECT ENGINEER SHALL NOTIFY:

NATIONAL GEODETIC INFORMATION SERVICES CENTER NOAA NATIONAL GEODETIC SURVEY, N/CG 17 SSMC 3, STATION 09202 SILVERSPRING, MARYLAND 20910 TELEPHONE NO. (301) 713-3242

- 6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF SURFSIDE ENGINEERING REPRESENTATIVE, BOB MCSWEENEY, OF CALVIN, GIORDANO & ASSOCIATES, INC. AT 954-921-7781 30 DAYS IN ADVANCE OF COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE THE NAME AND PHONE NUMBER OF A RESPONSIBLE PERSON WHO WILL BE SUBJECT TO EMERGENCY CALLS 24 HOURS PER DAY. 7 DAYS PER WEEK.
- 9. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ON TO THE PROJECT. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE HE REQUEST TO THE TOWN OF SURFSIDE FROM ENERGY REPRESENTATIVE, BOB MCSWEENLY OF CALVIN, GIORDANO & ASSOCIATES INC. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL CORONIANT WITH THE TOWN ENGINEER PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTRINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE A M MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
- 10. CONTRACTOR SHALL BE NPDES COMPLIANT PRIOR TO CONSTRUCTION ACTIVITIES.
- 11. EROSION CONTROL ITEMS WILL BE UTILIZED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION.
 THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS
 DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. ALL HAY BALES, ROCK BAGS,,
 TURBUITY BARRIER, AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
- 12. LANDSCAPING EXISTS AT STREET END BUT HAS NOT BEEN DEPICTED ON THESE PLANS FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR VISITING SITE PRIOR TO BID TO VERIFY PATH OF ACCESS FOR EQUIPMENT TO SEAWALLS. AFTER CONSTRUCTION, CONTRACTOR IS TO RESTORE ANY DISTURBED LANDSCAPING TO EXISTING CONDITIONS OR BETTER. ALL DISTURBED GRASSED AREAS WITHIN THE PROJECT BOUNDARIES SHALL BE SODDED WITH ST. AUGUSTINE FLORATAM SOD.
- 13. WORK MUST BE PERFORMED FROM UPLANDS AT CARLYLE AVE.
- 14. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS WITH THE TOWN OF SURFSIDE ENGINEERING REPRESENTATIVE, BOB MCSWEENEY, OF CALVIN, GIORDANO & ASSOCIATES, INC. AT 954-921-7781. STAGING AREAS AND STOCKPILES FOR MATERIAL AND EQUIPMENT SHALL NOT BE PLACED IN PROXIMITY TO SURFACE WATERS.
- 15. IF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT, OR ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY NOTIFY THE TOWN OF SURFSIDE ENGINEERING REPRESENTATIVE, BOB MCSWEENEY, OF CALVIN, GIORDANO & ASSOCIATES, INC. AT 954-921-7781.

- 16. CONTRACTOR SHALL SUBMIT PLAN FOR APPROVAL TO PLACE FILTER FABRIC. THE FABRIC MUST BE IN CONTACT WITH THE SHEET PILE TO A DEPTH OF 2' BENEATH THE MUDLINE. THE METHOD MUST DEMONSTRATE SUCCESSFUL ACCOMPLISHMENT TO THE SATISFACTION OF THE ENGINEER.
- 17. FILTER FABRIC SHALL BE MIRAFI 700X OR EQUAL WITH EQUIVALENT AOS, RUPTURE, WEIGHT, ABRASION RESISTANCE.
- 18. REINFORCING STEEL IN CONCRETE PANELS AND CAP SHALL BE MMFX₂.
- EXISTING SEAWALL, INCLUDING BATTER PILES, KING PILES, CAP AND CONCRETE PANELS TO BE DEMOLISHED TO THE EXTENT NECESSARY FOR CONSTRUCTION. DEMOLISHED SEAWALL TO BE DISPOSED OF PROPERLY.
- CONCRETE PILE INSTALLATION INCLUDING VERIFICATION OF DEPTH OF PILES REQUIRES SPECIAL GEOTECHNICAL INSPECTOR FROM THE TOWN OF SURFSIDE.
- 21. ONE BEAD OF RIPRAP (1'-3' DIA.) TO BE INSTALLED ALONG THE ENTIRE LENGTH OF SEAWALL SEGMENT FOR A TOTAL LENGTH OF 50 LINEAR FEET.
- 22. LANDSCAPING EXISTS AT STREET ENDS BUT IS NOT DEPICTED ON THESE PLANS FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR RESTORING LANDSCAPING DAMAGED DURING CONSTRUCTION TO PRE-EXISTING CONDITIONS.

G2

FOR BIDDING PURPOSES ONLY

PROJECT No PURPOSE OF THIS SET

STATE OF FLORIDA PROFESSIONAL ENGINEER LICENSE No. 75507

CHECKED ISSUED FOR BIDDING

Calvin, Giordano & Associates, Inc. EXCEPTIONAL SOLUTIONS 560 Village Boulevard • Suite 340 • West Palm Beach, FL 33409 Phone: 561.684.6161 • Fax: 561.684.6360 Certificate of Authorization 514



GRAPHIC SCALE (IN FEET) 1"=10'

LEGEND

2. ALL WORK MUST BE PERFORMED FROM UPLANDS AT THIS LOCATION.

C1

FOR BIDDING PURPOSES ONLY

ODSHAM, P.E. ORIDA PROFESSIONAL ENGINEER	SCALE
75507	PROJECT No
	PURPOSE OF

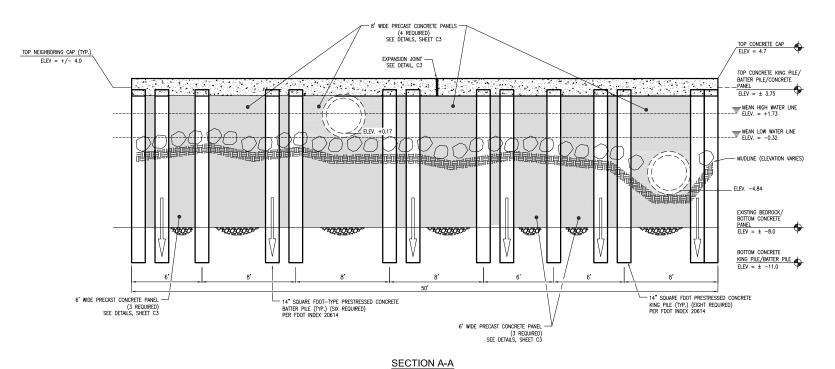
DAVID W. FRODSHAM, P.E.	
STATE OF FLORIDA PROFESSIONAL ENGINEER	
ICENSE No. 75507	

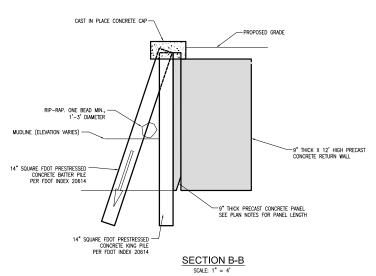
1	DATE	02-09-2013	
	CHECKED DATE	D.F. 02-09-2013	

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SURFSIDE SEAWALL DESIGN CARLYLE AVENUE TOWN OF SURFSIDE, FLORIDA





CONSTRUCTION SEQUENCE

- STAKE OUT CONSTRUCTION AREA
- INSTALL ENVIRONMENTAL PROTECTION BARRIERS.
- REMOVE EXISTING STONE SEAWALL.
- INSTALL PROPOSED PILE & PANEL SEAWALL WITH PRECAST RETURN WALL PANELS.
- 5. INSTALL RIP RAP.

KHOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG I'S fig. I's two. I's the law.

FOR BIDDING PURPOSES ONLY

PLAN AND ELEVATION DETAILS

								DESIGNED	D.F.
								DATE	02-09-2013
								CHECKED	D.F.
								DATE	02-09-2013
								ISSUED FOR	BIDDING
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY	DATE	04-30-2014

Calvin, Giordano & Associates, Inc.

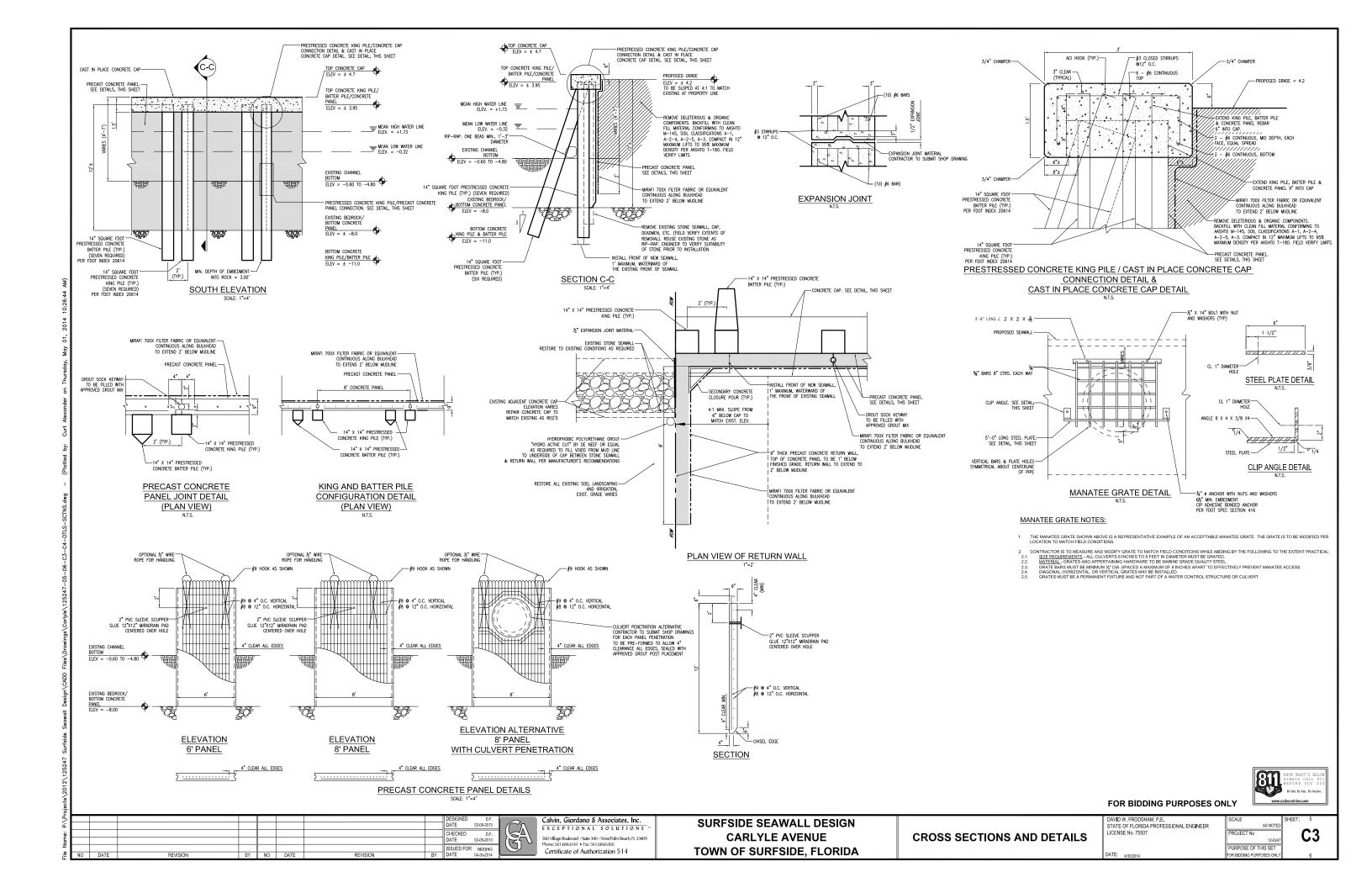
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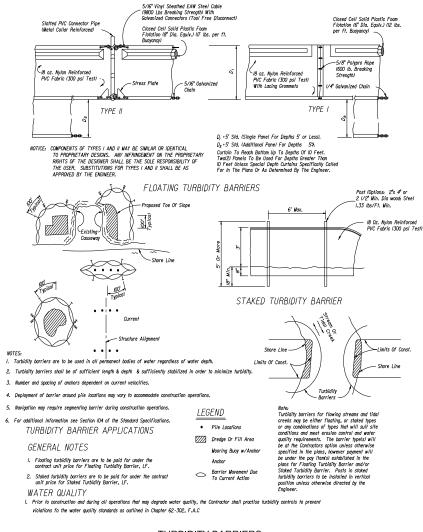
SOVIllage Blacked "Salits 340 - West Palm Beach, FL 33409

Phone 56,6844616 • Fax 56,18464690

Certificate of Authorization 5 1 4

SURFSIDE SEAWALL DESIGN
CARLYLE AVENUE
TOWN OF SURFSIDE, FLORIDA





FILTER FABRIC MATERIAL SECURELY FASTENED TO THE POSTS OR OF USED THE WIRE MESH. SECTION WOOD OR STEEL POSTS EXIST. GROUND FILTER FABRIC MATERIAL
(FOR ADDITIONAL STRENGTH,
FILTER FABRIC MATERIAL CAN
BE ATTACHED TO A 6-INCH MAX.
MESH WIRE SCREEN WHICH HAS
BEEN FASTENED TO THE POSTS) ELEVATION SILT BARRIER FENCE

TURBIDITY BARRIERS



FOR BIDDING PURPO	SES ONLY
DAVID W EPODSHAM P.E.	SCALE

DATE	02-09-2013	05
CHECKED DATE	D.F. 02-09-2013	
ISSUED FOR DATE	BIDDING 04-30-2014	

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SURFSIDE SEAWALL DESIGN CARLYLE AVENUE TOWN OF SURFSIDE, FLORIDA

STORM WATER **POLLUTION PREVENTION DETAILS**

PURPOSE OF THIS SET