## REST BEACH RESTORATION PROJECT CITY OF KEY WEST, FLORIDA PERMIT PLANS

## GENERAL NOTES

- THE PURPOSE OF THIS PROJECT IS TO PLACE APPROXIMATELY 7,500 CUBIC YARDS ALONG REST BEACH LOCATED IN KEY WEST, FLORIDA.
- BEACH PLACEMENT ACTIVITIES WILL BE CONDUCTED IN DESIGNATED AREAS ONLY AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- CONTRACTOR WILL STRICTLY COMPLY WITH ALL MANATEE REGULATIONS.
- CONTROL MEASURES THROUGHOUT THE PROJECT.
- TOPOGRAPHIC AND BATHYMETRIC DATA PROVIDED BY ATKINS NORTH AMERICAN DATED AUGUST 2012 (BEACH SURVEY).
- GRID COORDINATES ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, 1990 ADJUSTMENT
- ELEVATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- SURVEY INFORMATION DEPICTED REPRESENTS THE EXISTING CONDITIONS AT THE TIME OF THE SURVEY.
- AERIAL PHOTOGRAPHS WERE PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION AND WERE COLLECTED IN 2009.

## APPENDIX

SHEET TITLE	SHEET NUMBERS
COVER	C-000
PROJECT VICINITY MAP AND NOTES	C-001
ENVIRONMENTAL PROTECTION NOTES	C-002 TO C-003
EXISTING GROUND SURVEY AND SEDIMENT	C-100
SAMPLE LOCATIONS	
PROJECT DESIGN - BEACH FILL AREA	C-300
RESOURCE IMPACT MAP	C-400
TYPICAL PROJECT DETAILS	C-500
PROJECT DESIGN - BEACH FILL PROFILES	C-600 TO C-601

**KEY WEST, FL 33041** CITY OF KEY WEST PREPARED FOR: P.O. BOX 1409

VICINITY MAP

## **JANUARY 2013**

Design Engineer & Survey

4030 WEST BOY SCOUT BLVD, SUITE 700 TAMPA, FLORIDA 33607 (813) 282-7275



LOCATION MAP NOT TO SCALE

305-809-3867

3140 FLAGLER AVENUE KEY WEST, FLORIDA 33040	AND THE PARTY OF T	o o o o

CITY OF KEY WEST ENGINEERING SERVICES

JANET MUCCINO,

CLIENT

NGS CONTROL POINTS           IR         LATITUDE (N)         LEEVATION (NGVDZ9)         ELEVATION (NAVD88)           4         24°32'51.81"         81°47'05.19"         1.221 METERS/4.01 FEET         0.812 METERS/2.66 FEET           4         24°32'47.04"         81°47'01.41"         1.216 METERS/3.99 FEET         0.0805 METERS/2.64 FEET           4         24°32'49.38075"         81°47'08.60809"         NNA         Pn	LATITUDE (M)   LONGITUDE (W)   ELEVATION (NGVD29)     24*32*51.81*   81*47*05.19*   1.221 METERS/4.01 FEET     24*32*47.04*   81*47*01.41*   1.216 METERS/3.99 FEET     24*3249.36075*   81*47*09.60809*   NA	SHILL SUITE 700	V/N	N/A	81°44'56 52310"	24°34'15 75002"	٥
ACTITUDE (N)   LONGITUDE (W)   ELEVATION (NGVD29)   ELEVATION (NAVD89)	GS CONTROL POINTS   ELEVATION (NGVD29)   ELEVATION (NAVD88)		NA	N/A	81°47'09'60809"	24"32"49 35075"	
IGS CONTROL POINTS           LATITUDE (N)         LONGITUDE (W)         ELEVATION (NGVD29)         ELEVATION (NAVD88)           24*32*51.81**         81*4705.19*         1.221 METERS/4.01 FEET         0.812 METERS/2.86 FEET           24*32*47.04**         81*4701.41*         1.216 METERS/3.99 FEET         0.0805 METERS/2.84 FEET	CONTROL POINTS   ELEVATION (NGVD29)   ELEVATION (NAVD89)						
IGS CONTROL POINTS	IGS CONTROL POINTS           LATITUDE (N)         LONGITUDE (W)         ELEVATION (NGVD29)           24°32′51.81°         81°47′05.19°         1.221 METERS/4.01 FEET	Pre	0.0805 METERS/2.64 FEET	1.216 METERS/3.99 FEET	81°47'01.41"	24°32'47 04"	Ċ
IGS CONTROL POINTS  LATITUDE (N) LONGITUDE (W) ELEVATION (NGVD29)	IGS CONTROL POINTS  LATITUDE (N) LONGITUDE (W) ELEVATION (NGVD29)		0.812 METERS/2.66 FEET	1.221 METERS/4.01 FEET	81°47'05.19"	24°32'51.81"	
NGS CONTROL POINTS	NGS CONTROL POINTS		ELEVATION (NAVD88)	ELEVATION (NGVD29)	LONGITUDE (W)	LATITUDE (N)	~
					POINTS	3S CONTROL	ž

TAMPA, FL 33607
Tel (813) 282-7275
Fax. (813) 636 8583
http://northamerica.atkinsglabal.com 30Y SCOUT BLVD

ENGINEER OF RECORD: BRYAN D. FLYNN P.E. 70856

AA1146

WEST MARTELLO TOWER 2 872 4557 TIDAL 3 872 4557 TIDAL 3 STATION NAME

FLORIDA FLORIDA FLORIDA STATE

MONROE

INTER-AMERICAN GEODETIC SURVEY

FLGPS MALLOY AZ MK | FLORIDA | MONROE

NATIONAL GEODETIC SURVEY

1989 1952

24°34'15.75992" 24°32'49.35075"

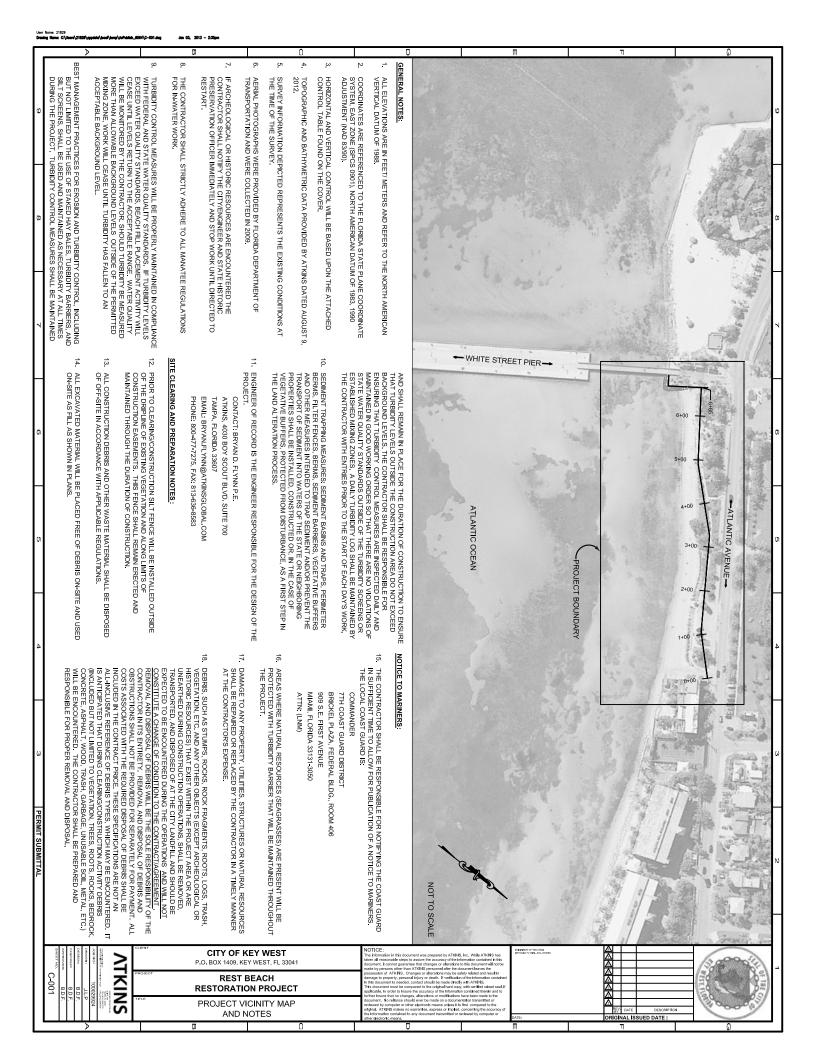
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MONROE

NATIONAL OCEAN SERVICE NATIONAL OCEAN SERVICE

1974 1974 AGENCY

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (DATED 2008, URLESS OTHERWISE NOTED), THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2007, UNLESS OTHERWISE NOTED) AND SUPPLEMENTS THERETO.



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9 8	IN A MANNER I HAT WILL CAUSE ANY DAMAGE 10 SEAGRASSES OR HARDBOTTOMS, ANCHORING, PLACING PIPELINE, OR STAGING EQUIPMENT SHALL AVOID THESE SENSITIVE AREAS, IF SUCH ACTIVITIES CANNOT BE DONIE WITHOUT AFFECTING THESE SENSITIVE AREAS, IF HE ACTIVITIES SHALL CEASE AND THE CITYZENGINEER SHALL BE MMEDIATELY NOTFIED (NO LATER THAN THE MORNING FOLLOWING THE NEXT WORKING DAY IF THE INCIDENT OCCURS AFTER NORMAL WORKING HORRING, MAY ACTUAL OR POTENTIAL INCIDENT INVOLVING DAMAGE TO, OR DISTURBANCE OF, SEAGRASSES OR HARDBOTTOMS SHALL BE REPORTED.	b. ALL CONSTRUCTION PERSONNEL SHALL BE ADVISED THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING OR DESTROYING SEAGRASSES, ESPECIALLY JOHNSON'S SEAGRASS WHICH IS PROTECTED UNDER THE ENDANGERED SPECIES ACT OF 1973, AS AMENDED. THE CONTRACTOR MAY BE HELD RESPONSIBLE FOR ANY SEAGRASSES HARMED OR DESTROYED DUE TO CONSTRUCTION ACTIVITIES.  6. THE CONTRACTOR SHALL NOT ANCHOR, PLACE PIPELINE, OR STAGE EQUIPMENT AND ADMINISTRANCE PROTECTION OF THE CONTRACTOR STAGE EQUIPMENT.	3.1.7 SEAGRASS AND HARDBOTTOM RESOURCE PROTECTION MEASURES a. THE CONTRACTOR SHALL NOSTRUCT ALL PERSONNEL ASSOCIATED WITH THE PROJECT OF THE POTENTIAL PRESENCE OF SEAGRASSES. ESPECIALLY THE FEDERALLY-LISTED THREATENED JOHNSON'S SEAGRASS (HALOPHLIA JOHNSONII), AND THE NEED TO AVOID CONTACT WITH SEAGRASSES.	f. ANY COLLISION WITH AND/OR INJURY TO A SEA TURTLE OR SMALLTOOTH SAWFISH SHALL BE REPORTED IMMEDIATELY TO THE CITY/ENGNINEER AND TO THE NATIONAL MARINE FISHERIES PROTECTED RESOURCES DIVISION (727-824-5312) AND TO THE LOCAL AUTHORIZED SEA TURTLE STRANDINIG/RESCUE ORGANIZATION.	E, IF A SEA TURTLE OR SMALLTOOTH SAWRISH IS SIGHTED WITHIN 100 VARDS OF THE ACTIVE DALLY CONSTRUCTION OPERATION OR VESSEL MOVEMENT, ALL APPROPRIATE PRECALUTIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR TO ENSURE IT'S PROTECTION. THESE PRECAUTIONS SHALL INCLUDE CESSATION OF OPERATION OF ANY MOVING EQUIPMENT CLOSER THAN 50 FEET OF A SEA TURTLE OR SMALLTOOTH SAWRISH. OPERATION OF ANY MECHANICAL CONSTRUCTION EQUIPMENT SHALL CEASE IMMEDIATELY IF A SEA TURTLE OR SMALLTOOTH SAWRISH IS SEEN WITHIN A 50 - FT RADIUS OF THE EQUIPMENT. ACTIVITIES MAY NOT RESUME UNTIL THE PROTECTED SPECIES HAS DEPARTED THE PROJECT AREA OF IT'S OWN YOUTTON.	d. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT "NO WAKEIDLE" SPEEDS AT ALL TIMES WHILE IN THE CONSTRUCTION AREA AND WHILE IN WATER DEPTHS WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL PREFERENTIALLY FOLLOW DEEP-WATER ROUTES (E.G., MARKED CHANNELS) WHENEVER POSSIBLE.	G. SILTATION BARRIERS SHALL BE MADE OF MATERIAL IN WHICH A SEAT URTLE OR SMALLTOOTH SAWRISH CANNOT BECOME ENTANCIELD. SILTATION BARRIERS SHALL BE PROPERLY SECURED AND REGULARLY MONITORED TO AVOID PROTECTED SPECIES ENTRAPMENT. BARRIERS MAY NOT BLOCK SEAT URTLE OR SMALLTOOTH SAWRISH ENTRY TO OR EXTIT FROM DESIGNATION CHITCH. HABITAT WITHOUT PRIOR AGREEMENT FROM THE NATIONAL MARINE FISHERIES SERVICES PROTECTED RESOURCES DIVISION. ST. PETERSBURG, FLORIDA.	b. THE CONTRACTOR SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING SEA TURTLES & SMALLTOOTH SAWFISH, WHICH ARE PROTECTED UNDER THE ENDANGERED SPECIES ACT OF 1973.	a. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL ASSOCIATED WITH THE PROJECT OF THE POTENTIAL PRESENCE OF THESE SPECIES AND THE NEED TO AVOID COLLISIONS WITH SEA TURTLES AND SMALLTOOTH SAWFISH. ALL CONSTRUCTION PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF THESE SPECIES.	3.1.6 ENDANGERED SPECIES PROTECTION - SEA TURTLES & SMALLTOOTH SAWFISH THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CONSTRUCTION CONDITIONS FOR PROTECTION OF SEA TURTLES & SMALLTOOTH SAWFISH:	ATKINS 4030 W, BOY SCOUT BLVD. TAMPA, FL 33607 (800) 477-7275	IN. REPORT SUBMISSION: THE CONTRACTOR SHALL MAINTAIN A LOG DETAILING ANY MANATEE SIGHTING REPORTS DURING THE CONTRACT PERDO. THE DATA SHALL BE RECORDED ON FORMS PROVIDED BY THE CITYENGINEER. ALL DATA IN ORIGINAL FORM SHALL BE FORWARDED DIRECTLY TO THE CITYENGINEER, WITHIN 10 DAYS OF COLLECTION AND COPIES OF THE DATA, SHALL BE SUPPLIED TO THE CITYENGINEER, FOLLOWING PROJECT COMPLETION, A REPORT SUMMARZING THE ABOVE INCIDENTS AND SIGHTINGS SHALL BE SUBMITTED TO THE FOLLOWING:	NOTES CONTINUED FROM SHEET C-002
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6		,-			WWW	MUNICIPAL SUPPLY & SIGN CO. 1085 FIFTH AVENUE, NORTH P. O. BOX.1765 NAPLES, FL. 3333-1765 PHONE: (800) 323-5366 OR (239) 262-2635 FAX: (239) 262-24645	CAPE CORAL SIGNS & DESIGNS 1311 DEL PRADO BOULEVARD CAPE CORAL, FL 33990 PHONE: (239) 772-9892 FAX: (239) 772-3848		CLEARWAL IEX, TL 33/36 PHONE: (727) 443-8478 FAX: (727) 442-7573 WWW.ASAPSIGNS.BIZ WILDERNESS GRAPHICS, INC.	ASAP SIGNS & DESIGNS 6248 PINELLAS STREET 6174 PINELLAS STREET	3.1.9 PROTECTION FROM SOUND INTRUSIONS THE CONTRACTOR SHALL KEEP CONSTRUCTION ACTIVITIES UNDER SURVEILLANCE AND CONTROL TO MINIMIZE DAMAGE TO THE ENVIRONMENT BY NOISE.  3.2 ABBROVED MANATTEE ENLICATION SURPLIFES AND SAMPLE SIGN		3.1.8 PROTECTION OF AIR RESOURCES THE CONTRACTOR SHALL KEEP CONS MANAGEMENT, AND CONTROL TO MININ
5						UNITED RENTALS HIGHWAY TECHNOLOGIES 309 ANGLE ROAD FT. PIERCE, Ft. 3947 PHONE: (772) 489-8772 OR (800) 489-8758 (FL ONLY) FAX: (772) 489-8757 WWW,UR,COM	NEW CITY SIGNS 1739 28TH STREET N. ST. PETERSBURG, FL 33713 PHONE: (727) 323-7897 FAX: (727) 323-1897 WWW.NEWCITYSIGNS.COM	2912 ORANGE AVENUE FT. PERCE, FL. 34947 PHONE: (800) 432-0331 OR (772) 461-0665 L FAX: (772) 461-0669 WWW.UNIVERSALSIGNSFL.COM	PHONE: (305) 451-4513 FAX: (305) 451-4513 FAX: (305) 451-5163 WWW.VITALSIGNSFLORIDA.COM UNIVERSAL SIGNS & ACCESSORIE:	VITAL SIGNS 104615 OVERSEAS HIGHWAY	RUSIONS THE CONTRACTOR SHALL K SURVEILLANCE AND CONTROL TO MIN NOISE.	ACTIVITIES, EQUIPMENT, PROCESSES AND WORK OPERATED OR PERFORMED BY THE CONTRACTOR IN ACCOMPLISHING THE SPECIFIED CONSTRUCTION SHALL BE IN STRUCT ACCORDANCE WITH THE APPLICABLE AIR POLITURION STANDARDS OF THE STATE OF FLORIDA (FLORIDA STATUTE, CHAPTER 403 AND OTHERS AND CHAPTERS 200 SERIES OF THE FAC) AND ALL FEDERAL EMISSION AND PERFORMANCE LIBRIS AND STANDARDS, INCLUDING THE U.S. ENVIRONMENTAL PROTECTION AGENCY'S AMBINT AIR QUALITY STANDARDS, ODDRS SHALL BE CONTROLLED AT ALL TIMES FOR ALL CONSTRUCTION ACTIVITIES.	LIND STRUCTION ACTIVITIES UNDER SURV
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