



MIAMI BEACH

OFFICE OF THE CITY MANAGER

NO. LTC #

356-2016

LETTER TO COMMISSION

TO: Mayor Philip Levine and Members of the City Commission

FROM: Jimmy L. Morales, City Manager

DATE: August 30, 2016

SUBJECT: U.S. Army Corps of Engineers Beach Renourishment Project

The purpose of this LTC is to provide an update to the Mayor and City Commission on the U.S. Army Corps of Engineers Beach Erosion Control and Hurricane Protection Project. The contractor, Eastman Aggregate Enterprises, begins construction today.

The \$11.9 million truck haul beach renourishment project will place 220,000 cubic yards of beach-quality sand from an upland sand mine in Central Florida to the erosional hotspots in the vicinity of 46th Street and 54th Street in order to provide storm protection and recreational benefits to these highly eroded segments of beach. The contractor anticipates bringing 150 loads of sand per day, starting with the segment near 46th Street, to be placed south to north in 100-foot long sections. The contractor is required to conduct quality control of all sand being delivered, in order to ensure that it is beach quality fill and meets the specifications of their permit.

The contractor will work week days and weekends, as needed. Work will occur in the project and staging areas from 6 a.m. to 11 p.m. However, work on the beach will be limited from 7 a.m. or sunrise (whichever is later) through 7 p.m. or sunset (whichever is earlier). During these hours, the sand placement area, an approximately 30-foot wide north-south haul road, and beach access points near work activities will be closed off to the public. Throughout the project, the public will be able to access the beach from the entrances immediately north and south of the sand placement areas. The contractor will have flagpersons at the north and south termini of each segment to direct pedestrian traffic to the nearest open beach access and to safely channel the public past the haul road to the water.

In preparation for the work that will begin in the vicinity of 46th Street, a notice to remove all beach equipment has been issued to the beachfront concession operators adjacent to the Fontainebleau Hotel, the Eden Roc Hotel, and the 46th Street public parking lot. The contractor will not conduct any work activities during the Labor Day Weekend and, as such, the beach concessions within the work area will be able to temporarily re-establish their equipment and operations. Once the project resumes, beach concession equipment must be kept off the beach and can be restored for regular operations as areas are completed and cleared by the contractor.

The contractor will first complete the segment in the vicinity of 46th Street before moving to the 54th Street segment. Construction at 46th Street will be completed in early November 2016 to allow Pulse Art Fair to load into the sand bowl currently serving as the staging area for this project. Upon completion of this segment, construction of the 53rd Street segment will commence and is scheduled to be completed by March 2017.

The City will continue to work closely with the US Army Corps and the County to inform affected parties and ensure that accurate information regarding the project is available. Additional information on the Miami Beach Erosional Hotspots project is available at <http://www.saj.usace.army.mil/Missions/Civil-Works/Shore-Protection/Dade-County/Miami-Beach-Hotspots/>.

Please feel free to contact Betsy Wheaton, Environment & Sustainability Department Director if you have any project specific questions.

Attachments: A: U.S. Army Corps of Engineers Press Release – August 22, 2016

B: Work Plan

C: Pedestrian Protection Plan


SMT/ESW/MKW



US Army Corps of Engineers
BUILDING STRONG®

Miami Beach sand project starts soon

Posted 8/22/2016

Release no. 16-065

Contact

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561-801-5734 (cell)

The U.S. Army Corps of Engineers Jacksonville District announces that construction will start tomorrow for the Miami Beach erosional Hotspots beach renourishment. The \$11.9 million project is part of the Miami-Dade County Beach Erosion Control and Hurricane Protection Project.

The Corps' contractor, Eastman Aggregate Enterprises, LLC of Lake Worth, Florida, will start mobilizing equipment at the 46th Street access and staging area tomorrow, and place sand on the beach in that area within the next few weeks.

Eastman Aggregates will place 220,000 cubic yards of beach-quality sand from an upland sand mine on more than 3,000 feet of critically eroded shoreline in two locations, near 46th Street and 54th Street. Construction will take place first at the 46th Street location, followed by the 54th Street location. Sand placement at each site will start at the south end and proceed north. Eastman will truck-haul sand from the E.R. Jahna Ortona Sand Mine and/or the Vulcan Materials Whitherspoon Sand Mine, both located in Moore Haven, southwest of Lake Okeechobee.

Sand fill operations, tilling, demobilization and restoration of the 46th Street access is set for completion by November 9, 2016, and the 54th Street location completion by spring 2017.

The areas affected by construction include the 4400-4700 and 5300-5500 blocks of Collins Avenue. There are two access and staging areas for trucks, equipment and sand, one at the 46th Street parking lot at Indian Beach Park and another at the 53rd Street parking lot at Beach View Park.

The main truck route will be east on SR-836/Dolphin Expressway to I-95 North, east on the I-195/Julia Tuttle Causeway to W 41st Street/Arthur Godfrey Road, then north on Indian Creek Drive,

Photos



The Corps will renourish a critically eroded area near 46th Street in Miami Beach with beach quality sand from the south end of the Fontainebleau Hotel (curved building) to the twin towers of the Blue and Green Diamond

Related Content

Related Site [Miami Beach Hotspots](#)

which turns into Collins Avenue, exiting west on Normandy Drive to the John F. Kennedy Causeway, entering the City of Miami at NW 79th Street.

The contractor will work weekdays, and weekends as needed. Crews will work at the access and staging areas, including delivery of sand, 6 a.m. through 11 p.m. Beach work will take place between 7 a.m. or sunrise, whichever is later, through 7 p.m. or sunset, whichever is earlier.

Trucks will enter and exit the staging areas during operating hours. During construction, the public should use caution along the truck route, in the access and staging areas, and on the beach. Flagmen will assist with traffic to ensure the safety of residents and beachgoers. For safety and protection, members of the public should follow the instructions of construction personnel, observe all posted signs regarding closed areas and stay away from areas fenced off with orange construction netting. Due to safety concerns, some beach access areas will be closed and certain public beach access points will be restricted during construction. Because of the extensive construction activities for the next several months, motorists, cyclists, and pedestrians are asked to use caution along these areas of Miami Beach.

“The renourished beach will help protect infrastructure, including iconic, historically and architecturally significant buildings on South Beach,” said Laurel Reichold, Corps project manager. “The Corps builds beaches to protect infrastructure, preserve wildlife, support the economy, and build coastal resiliency. Widening the beach to about 230 feet also improves habitat for sea turtle nesting.”

“The Corps and our partners at Miami-Dade County and the City of Miami Beach are coordinating closely to help keep the public informed about this project,” said Reichold. “We recently held a public meeting, and project updates will be available on the web and shared widely on social media.”

Miami-Dade County will conduct migratory shorebird and sea turtle monitoring daily to ensure these species are protected during construction.

The project is cost-shared between the federal government (56.6%), Miami-Dade County (21.9%) and the state of Florida (21.5%).

Additional information on the Miami Beach Erosional Hotspots project is available at: <http://www.saj.usace.army.mil/Missions/Civil-Works/Shore-Protection/Dade-County/Miami-Beach-Hotspots/>

The Corps will post project updates on the web and social media, including the Jacksonville District, U.S. Army Corps of Engineers Facebook page: <https://www.facebook.com/JacksonvilleDistrict/> and on Twitter @JaxStrong @MiamiDadeRER @MiamiDadeCounty @MiamiBeachNews



**BEACH EROSION CONTROL AND HURRICANE
PROTECTION PROJECT, MIAMI-DADE COUNTY,
FLORIDA, BEACH RENOURISHMENT 2016
MIAMI BEACH - HOTSPOTS**

WORK PLAN

35 30 00

Eastman Aggregate Enterprises will supply sand from Jahna Mining Industries and Vulcan Mines from their Glades County pit location. Upon award of the BECHPP Beach Renourishment Project Eastman Aggregate Enterprises will instruct Jahna Mining to begin sand production.

The pit operation will include a QA/QC plan as follows:

- A. Prior to transportation of materials to assigned project, stockpiled material will be tested from multiple locations to confirm material meets technical specifications and Source of Sand Samples submitted to the USACE as per contract.
- B. Additional stockpile materials testing will occur twice daily. During loading operations samples will be collected at the face of the stockpile/s to confirm the sand continues to meet the technical specifications.
- C. Prior to commencement EAE will require the involved mines to provide a valid certification of their scales.

Daily Operations:

Trucks will exit the mine and follow the designated truck route. The sand shall be stockpiled at the 46th and 55th Street access points off the beach. With the large areas provided at these contracted points EAE will stage the trucks within the

allotted area in lanes as detailed in the Appendix A (Traffic Control Plan). This system of trucks entering the project will keep imported sand and equipment off the beach at night as well as reduce traffic congestion during day operations and ensure public safety. Additionally EAE will provide necessary MOT and include flagperson/s.

Production is estimated at about 3,500 tons daily. This will be accomplished by utilizing approximately tri-axle highway trucks per fill segment. Each truck will transport 1 to 2 loads per day during the hours of 6:00 am – 5:00 pm.

As an additional measure EAE will install stabilization mats at the mouth of the beach access locations and will be removed at the end of each days operations. The mats provide a temporary stable access path for the trucks. This also removes the re-handling of material and will not be dumped onto the pavement.

EAE will enter the beach area at the access locations provided on the contract drawings.

Upon approval from Miami-Dade County and issuance of NTP from the USACE, EAE will begin to mobilize the beach access locations with the installation of the stabilization mats so that EAE can transport the sand to the beach through the corridors safely.

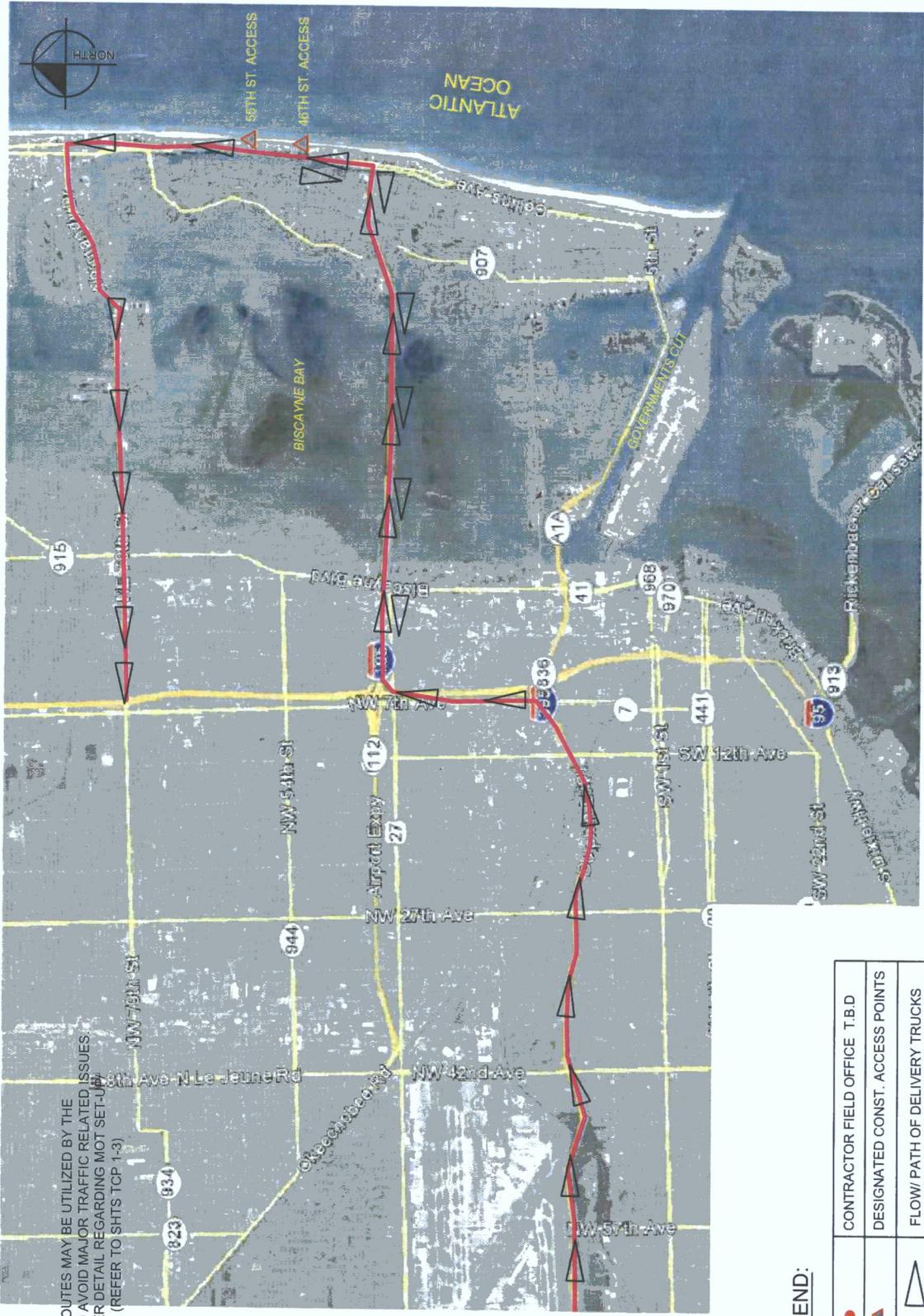
EAE will stockpile sand within our work area and utilize approximately (3) Off Road trucks to transport the sand to the fill template. We will use 1-2 dozers to spread the sand within fill template and final grade.

EAE intends to install construction safety fencing and signage at our work areas as per the Traffic Control Plan. An certified ATV with spotter will escort Off Road trucks to ensure public safety.

EAE will place signage every along the Off-Road truck haul route. The signs will inform beach goers to stay clear of the travel lane. This lane will be dedicated for the ATV's w/spotters to escort the Off-Road trucks from loading work area to the fill template. Photos are attached.

All EAE equipment is equipped with back-up alarms, spill kits and fire extinguishers. All personnel will wear safety apparel per OSHA guidelines.

APPENDIX A

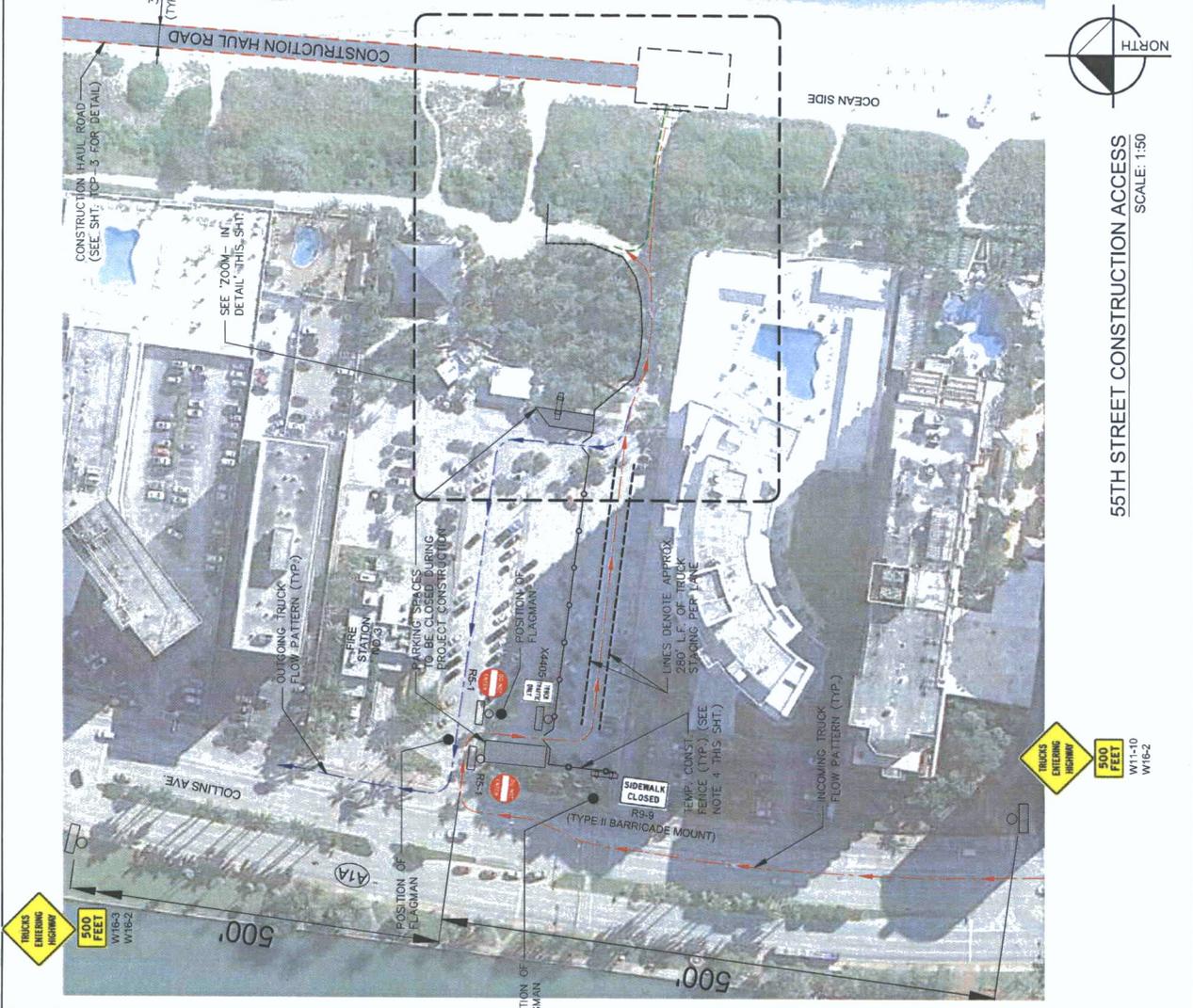


*** NOTE:**
 1. OPTIONAL ROUTES MAY BE UTILIZED BY THE HAULERS TO AVOID MAJOR TRAFFIC RELATED ISSUES.
 2. FOR FURTHER DETAIL REGARDING MOT SET-UP PLACEMENT, (REFER TO SHTS TCP 1-3)

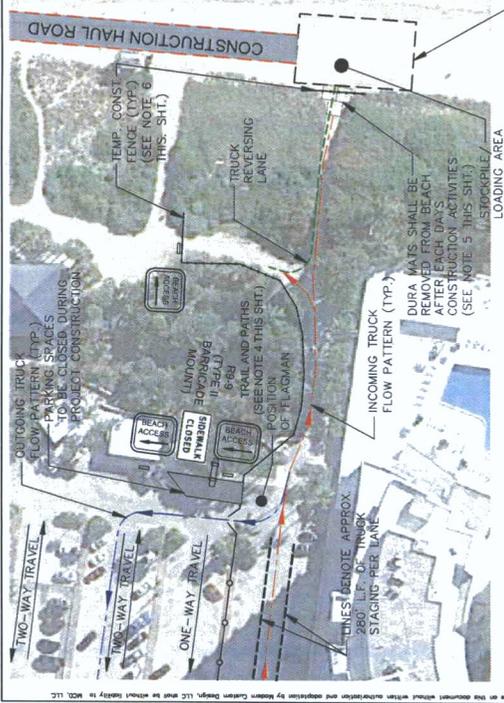
LEGEND:

●	CONTRACTOR FIELD OFFICE T.B.D
▲	DESIGNATED CONST. ACCESS POINTS
▲	FLOW/ PATH OF DELIVERY TRUCKS
—	TYPICAL PATH OF DELIVERY TRUCKS

TRUCK HAULING ROUTE KEY MAP
 SCALE: 1:2200

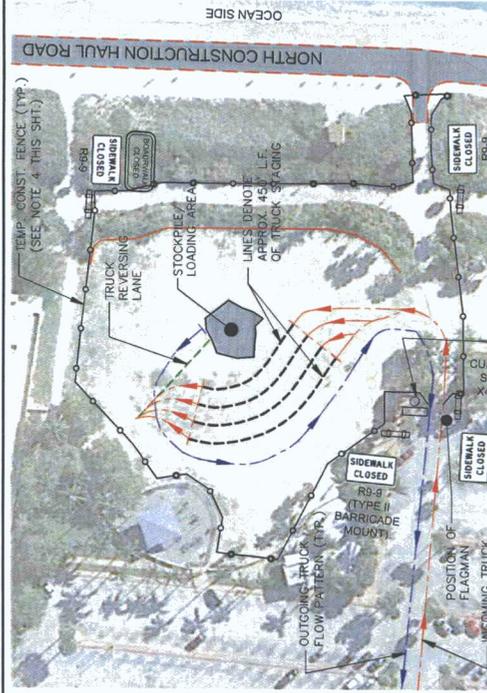


55TH STREET CONSTRUCTION ACCESS
 SCALE: 1:50
 TCP-1



ZOOM-IN DETAIL
 SCALE: 1:50

- * NOTE:**
1. THE TRI-AXLE DUMP TRUCKS WILL BE STAGED WITHIN THE NOTED AREAS.
 2. WHILE CONSTRUCTION ACTIVITY IS IN PROGRESS THE ACCESS POINT WILL BE CLOSED TO THE PUBLIC AND EASTMAN WILL SECURE THE CONSTRUCTION ACCESS AREA BY INSTALLING TEMPORARY CONSTRUCTION FENCE AND PLACING LOOKS AT NIGHT.
 3. ALL SIGNAGE, CONES, AND BARRICADES SHALL BE FOOT APPROVED AND HAVE REFLECTIVE MATERIALS.
 4. ANY TRAILS/PATHS THAT LEAD TO THE CONSTRUCTION AREA SHALL HAVE SIGNAGE AND ORANGE SAFETY FENCED INSTALLED TO KEEP PEDESTRIANS FROM ENTERING ANY OF THE NOTED CONSTRUCTION AREAS/ TRAVEL PATHS.
 5. THE BEACH ACCESS POINTS SHALL HAVE "BEACH ACCESS CLOSED" SIGNS AND FENCING PLACED AT EACH POINT OF ACCESS.
 6. THE TEMPORARY CONSTRUCTION FENCE SHALL HAVE SIGNS AFFIXED TO FENCE AT THE APPROPRIATE INTERVALS STATING "CONSTRUCTION SITE DO NOT ENTER."



ZOOM-IN DETAIL
SCALE: 1:50

- * NOTE:**
1. THE TRI-AXLE DUMP TRUCKS WILL BE STAGED WITHIN THE NOTED AREAS.
 2. WHILE CONSTRUCTION ACTIVITY IS IN PROGRESS THE ACCESS POINT WILL BE CLOSED TO THE PUBLIC AND EASTMAN WILL SECURE THE CONSTRUCTION ACCESS AREA BY INSTALLING TEMPORARY CONSTRUCTION FENCE AND PLACING LOCKS AT NIGHT.
 3. ALL SIGNAGE, CONES, AND BARRICADES SHALL BE FDOT APPROVED AND HAVE REFLECTIVE MATERIALS.
 4. THE TEMPORARY CONSTRUCTION FENCE SHALL HAVE SIGNS AFFIXED TO FENCE AT APPROPRIATE INTERVALS STATING "CONSTRUCTION SITE DO NOT ENTER".
 5. THE BEACH ACCESS POINTS SHALL HAVE "BEACH ACCESS CLOSED" SIGNS AND FENCING PLACED AT EACH POINT OF ACCESS.
 6. THE NORTH AND SOUTH HAUL ROADS WILL NOT BE USED SIMULTANEOUSLY AND WHILE THE ENTRANCE IS BEING UTILIZED FOR CONSTRUCTION TRAFFIC IT SHALL HAVE ORANGE SAFETY FENCE TO KEEP THE PEDESTRIANS AWAY FROM CONSTRUCTION ACTIVITIES.



**BEACH EROSION CONTROL AND HURRICANE
PROTECTION PROJECT, MIAMI-DADE COUNTY,
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MIAMI BEACH - HOTSPOTS**

PEDESTRIAN PROTECTION PLAN

35 30 00

Summary of Work Procedures

The work/staging areas will be surrounded by portable temporary constructions fence each panel is approximately 6' (H) x 8' (L) and shall be linked together Signs will be posted stating "CONSTRUCTION AREA, KEEP OUT". . The path ways and worksites beach side may use a 4 ft safety fencing to keep pedestrians from accessing the work areas and to safety channel the public away from any hazardous work activities.

The safety fencing is manufactured by Gilbert & Bennett and is a 1.75 in x 2.12 in mesh plastic barrier fence. The fencing color is orange which makes it highly visible. Each section of fence is 48" high by 100' long. Eastman Aggregates will install 5' x 3/4" piping placed 20' apart into the ground. The fencing is rolled out, weaved through the placed piping and then slid over top. Fencing will be maintained on a daily basis by construction personnel to ensure efficient crowd control.

Flagperson/s will be placed at the north and south portions of the work area to direct pedestrian traffic through the access area. Additionally, a 4 ft fence will be blocking the sidewalk while pedestrians are stopped for truck traffic.

Eastman Aggregate intends to install construction safety fencing and signage at our work areas. An ATV with spotter will escort Off Road trucks to ensure public safety.

Eastman Aggregate will place signage every 500' along the Off-Road truck haul route. The signs will inform beach goers to stay clear of the travel lane. This lane will be dedicated for the ATV's w/spotters to escort the Off-Road trucks from loading work area to the fill template.

All Eastman Aggregate equipment is equipped with back-up alarms, spill kits and fire extinguishers. All personnel will wear safety apparel per OSHA guidelines.

All construction equipment will be stored inside a portable fenced work/staging area during non working hours. Please refer to 01 55 26 Traffic Control Plan for detail.