

COMMUNITY DEVELOPMENT BLOCK GRANT –  
MITIGATION  
GENERAL INFRASTRUCTURE PROGRAM  
APPLICATION

SANDS SUBDIVISION  
ROAD MITIGATION PROJECT  
SEPTEMBER 14, 2020

MONROE COUNTY  
BOARD OF COUNTY COMMISSIONERS  
1100 SIMONTON STREET  
KEY WEST, FLORIDA 33040

JUDITH CLARKE  
SENIOR DIRECTOR OF ENGINEERING SERVICES DEPARTMENT





**Community Development Block Grant – Mitigation Program  
General Infrastructure Program  
Sands Subdivision Road Mitigation Project**

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**PROJECT DESCRIPTION**

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**Purpose and Description:** Monroe County, Florida is the southernmost county in the continental United States, and is largely comprised of an island archipelago extending some 112 miles from Key Largo south, and then west, to Key West. Since much of this island chain is at or near sea level, coastal roads routinely experience tidal flooding.

This pilot project is designed to mitigate **the only access road to 82 residential structures within the low-income Sands Subdivision** on Big Pine Key. The total number of units that will be impacted within the greater drainage basin is 150 residential units. This road is subject to frequent and persistent flooding due to storms, tides, and sea level rise. This project would combine roadway repair and drainage improvement to alleviate the loss of roads, access, and saltwater inundation impacts. The project outcome will be reliable access, and the reduction of potential flood damage to homes, infrastructure, and vehicles. **This mitigation project will ensure the ongoing viability of this low-income residential neighborhood and enhance the community lifelines of safety and security, transportation, and health and medical.**

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*This grant application requests \$8,520,212 to repair 1,693 linear feet of Father Tony Way and to construct a "pump and treat" storm water drainage system. The road will be elevated to approximately 11 inches NAVD 88, and will construct drainage structures, wet wells, a pollution treatment device, an elevated pump station with a back-up emergency generator.*

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The Sands Subdivision on Big Pine Key was at the epic center of Hurricane Irma. As a result, **it remains the most impacted and distressed community three years after Irma's devastating strike.** Big Pine Key is also the most environmentally sensitive island in the Florida Keys and home to the endangered Key Deer and the National Key Deer Wildlife Refuge. Due to its environmental sensitivity, the Florida Keys have been designated as an "**Area of Critical State Concern.**"

The storm water drainage improvement project site is an approximate 47-acre area in a residential low-income neighborhood that is located on the northeast side of Big Pine Key in the lower keys (see *Figure 1*). The road is at a low elevation and frequently floods during rain and tidal events. The tidally influenced groundwater is high and the area does not drain naturally. This situation will be exacerbated in the near future by sea level rise.



The proposed project will construct an engineered storm water management system to collect, treat and discharge storm water from the road. The scope of the project will include repair, reconstruction and/or potentially elevating sections of roadways, construction of a storm water collection system, a pump station with pre-treatment, wet wells, pumps, piping, electrical controls, instrumentation, an emergency generator, and injection well(s) for final disposal of treated storm water.

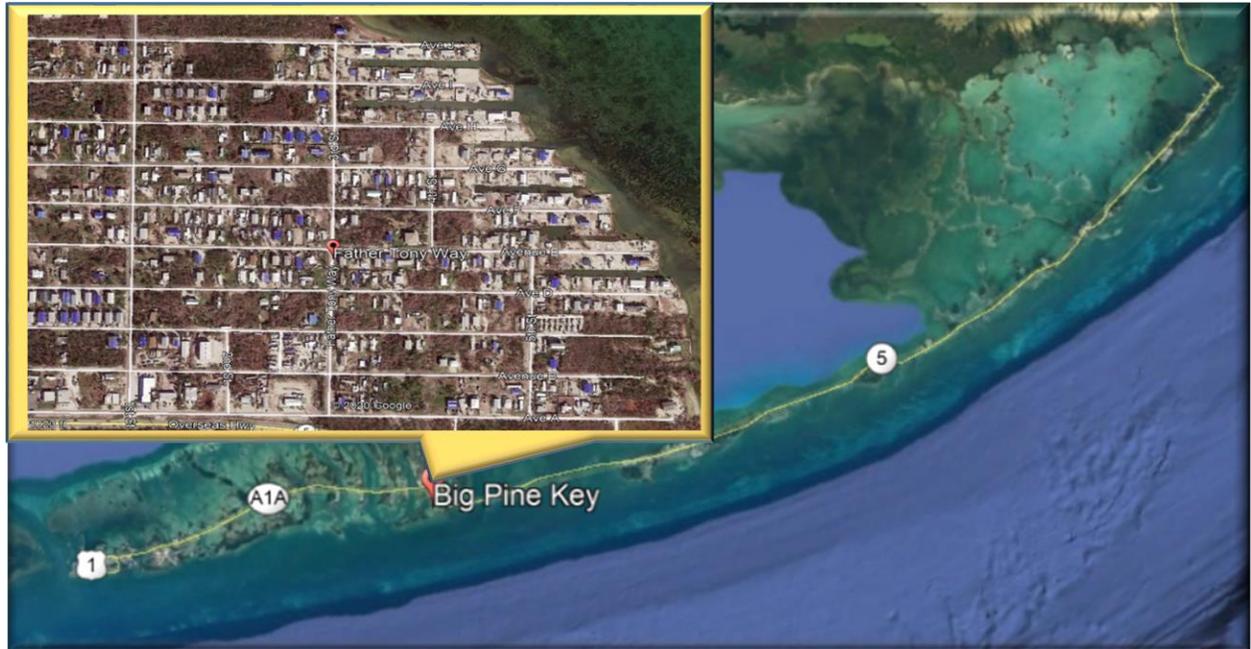


Figure 1: Big Pine Key in the Florida Keys showing Sands Subdivision

The Monroe County Board of County Commissioner's has demonstrated their support to this important, high impact pilot mitigation project by dedicating **\$365,500 in General Revenue Funds to complete the Project Design**. As part of the design process, the county obtained all necessary permits for the storm water management system and the injection wells. The permitting process included survey, geotechnical and environmental investigations needed to support development of construction plans and technical specifications.

This mitigation project is designed in accordance with the stringent South Florida Water Management District (SFWMD), the Florida Department of Environmental Protection (FDEP), and the National Environmental Policy Act (NEPA) requirements. The analysis considered environmental impacts and future impacts due to sea level rise. The project is now ready for the construction and construction engineering and inspection (CEI) phase. **This project is absolutely "shovel ready"**. Once complete, the roadway and drainage system will be operated and maintained by Monroe County Engineering Services Department.



**Mitigated Risks:** The Sands Subdivision is frequently exposed to tidally influenced inundation of residential access roads, which was exacerbated when Hurricane Irma directly affected the Island. The 47 acre project area is partially located within the **VE 9, VE 10 and VE 11 FIRM Flood Hazard Areas.** (See the *Project Site Map in the Community Value Section* of this application).

When flooding occurs, residents are either trapped or prevented from reaching their homes. Frequent, prolonged saltwater inundation damages homes, roads, and infrastructure. Public and private vehicles experience severe damage and shortened live spans due to repeated salt-water exposure. Blocked streets create traffic congestion, which in turn delays business and causes other commercial interruption. Flooding increases emergency response and transport times, escalating the risk and endangering the lives of residents. **If funded, this project will provide enhancement to three community lifelines including safety and security, health and medical, and transportation.**

Improvements in drainage will improve navigability of the roads and facilitate ingress and egress from the area. During non-disaster times, these improvements also improve the chances that the remaining affordable housing stock in this LMI neighborhood will continue to be viable, and it will improve the chances that replacement housing will be developed in the area. Without these improvements the long term viability of this low income neighborhood is questionable (especially when storms threaten).

While tropical storms create significant problems, the slow and imperceptible rise in sea level tides blocks streets and inundate ocean waters into homes on a monthly, or more frequent, basis. Identifying viable storm water management solutions, in the wake of increasing tropical storm

## MITIGATED RISK

When flooding occurs, the Sands Subdivision faces the following risks affecting community lifelines including safety and security, health and medical, and transportation:

- **Access:** residents are either trapped or prevented from reaching their homes.
- **Emergency Responder Access:** emergency responders fail to reach victims or emergency response times may increase escalating risk to life and safety;
- **Infrastructure Damage:** frequent, sustained saltwater inundation damages roads, infrastructure, and private homes;
- **Vehicle Damage:** Public and private vehicles experience severe damage and shortened live spans due to repeated salt water exposure;
- **Post Disaster Operations:** search and rescue, damage assessment, debris removal, and infrastructure repairs are delayed
- **Economic Impact:** Blocked streets create traffic congestion, which in turn delays business and causes other commercial interruption;



activity and rising sea levels is an absolute priority for the Monroe County leadership. These efforts are detailed in the *Community Value Section* of this application. The loss of any additional residential structures, particularly in the aftermath of Hurricane Irma's devastating blow to the workforce housing stock, must be prevented by assuring long-term access to these homes.



Figure 1: Above ground components of elevated storm water pump station

**Natural Infrastructure:** This project does not incorporate natural infrastructure.

**Staffing:** The project will be implemented by a highly experienced and qualified project management team consisting of the following individuals:

- Administrative Program Executive: Judith Clarke, P.E. Director of Engineering Services Department
- Project Manager: Debra London, Engineering Services Department, Project Manager
- Contract Manager: Olympia Newton, Engineering Services Department, Senior Engineering Technician
- Construction Inspector and construction engineering and inspection services, vendor consultant (TBD),
- Road Maintenance, Monroe County Lower Keys Roads and Bridges Department



Further information on each of the team members is detailed in the *Capacity Plan Section* of this application including a biographical summary of each team member.

**Vendor Services:** In addition to internal staff, Monroe County will solicit vendor services for construction services, and construction, engineering and inspection (CEI) services, and historical and environmental reviews. All procurement processes will comply with the procurement standards in 2 C.F.R. §200.318 - §200.326 when procuring property and services under this Agreement.

**Work Plan:** Monroe County will elevate portions of the 1,693 linear feet of Father Tony Way and construct a "pump and treat" storm water drainage system. The road will be elevated to approximately 11 inches NAVD 88, and will construct drainage structures, wet wells, a pollution treatment device, and an elevated pump station with a back-up emergency generator. The roadway improvements will include utility relocation and adjustment of access drives to homes. The County will work with the residents on all modifications involving resident access and property. This comprehensive storm water management system will effectively collect the storm water, and treat the water to Environmental Protection Agency (EPA) standards.

Due to the need to accommodate the additional storm water management infrastructure, the County has purchased 2 lots on which the equipment will be installed. Monroe County will complete the project over a period of approximately two years and four months. The design and permitting process is nearly 100% complete and once the environmental review process is complete, we estimate that the construction phase will be conducted between December 2021 and July 2023 assuming that contracts are executed within a timely manner.

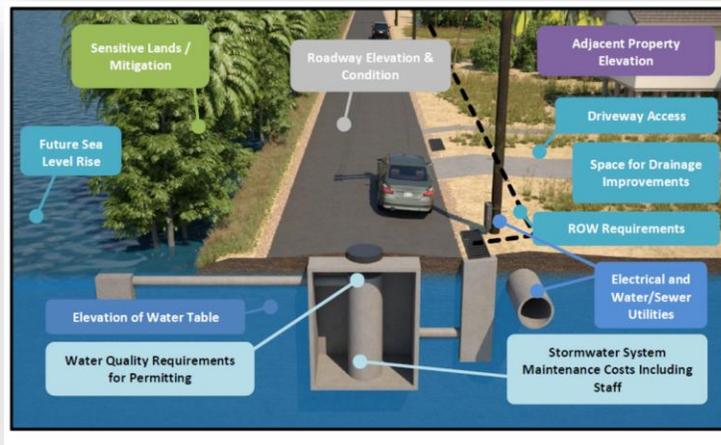


Figure 2: Conceptual Design of Storm Water Management Project



**Funding:** The Monroe Engineering Services Department, working in close partnership with the contracted vendors and with input from the residents of Sands Subdivision will continue to evaluate the roadway and potential mitigation options. This proposed mitigation initiative will create an enhanced roadway and storm water drainage system that will reduce flooding and enhance the resilience of the community at a **cost of \$8,885,712**. Additional budget details are provided in Table 1 and in the *Budget Document* of this application.

<b>Project Design, survey, permitting, and land acquisition (COMPLETE &amp; FUNDED BY BOCC)</b>	\$365,500
Mobilization	\$610,502
Maintenance of Traffic	\$72,000
Roadway Construction	\$398,737
<b>Utility Adjustments</b>	\$88,300
<b>Drainage system construction</b>	\$5,706,285
<b>Contingency</b>	\$619,332
<b>Construction Engineering and Inspection (CEI)</b>	\$619,332
<b>Project Administration</b>	\$405,724
<b>TOTAL</b>	<b>\$8,885,712</b>

**Costing Methodology:** The Monroe County Engineering Services Department design consultant WSP USA, Inc. has provided a detailed cost estimate in the Budget Document based upon detailed technical specifications (*see the Blue Print and Technical Design Section of this application*). WSP USA, Inc. is an experienced drainage and roadway construction design firm and has designed other projects for flood mitigation in South Florida, specifically Miami Beach. The cost of raising the roads and installing pump stations are also compared to historical costs of roadway improvement projects maintained by the County and the Florida Department of Transportation (FDOT) regional historical cost documentation. The Engineer of Record estimates the actual cost of project construction at \$ **8,114,488** - this includes the construction contingency and construction engineering and inspection costs.

**Administration:** The project has incorporated compensation for Project Manager and Project Team for project administration and implementation of the project. Estimated cost is **\$405,724**, which represents five (5) percent of the total construction cost of **\$8,114,488**. Since the design phase was completed outside of the approved project period, the cost of the design \$365,000 was not included to calculate the five percent (5%) administrative cost. The design cost was also NOT included in the project budget.

**Outcomes:** Father Tony Way is the only road, which provides access to 82 residential units within the LMI community. Additionally, there are 104 homes within the greater Drainage Basin Area of this project that will also be impacted. When the traffic access area and the drainage basin are combined, there are a total of 150 LMI units ultimately impacted by this project.

Hurricane Irma **substantially damaged 115 homes in the project area** mandating that these homes be rebuilt to the current building code. This area also **contains seven (7) homes with repetitive and severe repetitive loss**. As the damaged homes (many of



which are affordable workforce housing) have been repaired, rebuilt and elevated, the resulting new affordable housing stock on Big Pine Key is far more resilient. This further justifies the need to main reliable access on Father Tony Way. This project seeks engineering solutions to keep the low-income neighborhood viable for long-term residential populations by providing access and protecting the neighborhood from continuous saltwater inundation.

**Maintenance:** The Road Maintenance Division is responsible for the day-to-day maintenance and operations of County maintained roads. Staff will continue to maintain this roadway and drainage improvement structure within their routine maintenance schedule. The county has in place a pavement maintenance and rehabilitation program that rejuvenates the pavement 5 years after new pavement is installed. Based upon publically available funds, the Board of County Commissioners will direct the percentage of the budget, which is, dedicated to road maintenance operations.



Figure 3: Roadway Elevations in the Sands Community



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## COMMUNITY VALUE

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The Sands Subdivision road mitigation project will provide value to the community in normal circumstances by continuing to provide access to the residential homes, which are currently subject to frequent and prolonged flooding prohibiting access to the community by homeowners, business services, public services, and emergency services. The road may flood during heavy rainfall and King Tides even in normal times.

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*During times of natural disasters, the project will provide value to the community by ensuring that residents can safely evacuate their homes, emergency services can reach disaster victims, roads can be cleared of debris, power lines can be restored, damage assessment can be conducted, and recovery can occur through access to the neighborhood.*

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**Community Lifelines:** With the completion of the Road Mitigation Project, we would be strengthening the following Monroe County community lifelines:



**Safety and Security:** Reestablishing community safety in the aftermath of a disaster is at the core of post disaster response operations. Maintaining accessibility to residential areas is vital to conduct law enforcement and security activities, **fire services, search and rescue and other vital governmental services.** Functional roadways free of flood waters are vital to reestablishing safety and security. Some of the residents are themselves considered essential personnel who need viable housing in order to continue working during disaster recovery.



**Health and Medical:** Disaster victims may require **medical care, patient movement, public health support, and medical supplies** within their daily lives as well as in the aftermath of a large-scale disaster. Elevating roadways and ensuring that storm water can be effectively treated and removed is vital to reestablishing the health and medical lifelines of the Big Pine residents along Father Tony Way.



**Transportation:** Functional roadways are a vital component of the transportation lifelines. Father Tony Way is a primary and for many the **ONLY** residential access road providing ingress and egress for persons, goods, and services.



**Community Resilience:** Being an island community, Monroe County must contend with the reality of a high vulnerability to hurricane events, King Tides, and other flooding events that bring community devastation and large quantities of floodwaters to neighborhoods, roads, critical facilities, and businesses. It is through a strong commitment to mitigation activities, that the Florida Keys have been able to build resilience. In the aftermath of Hurricane Irma (2017), the mitigating investments in the critical infrastructure, including the power grid, water supply systems, and waste water systems was clearly demonstrated. The Florida Keys did NOT experience prolonged service outages to these critical public services that have been hardened in recent decades.

The Sands Subdivision of Big Pine Key sustained perhaps the most devastating blow during Hurricane Irma and remains one of the **most impacted and distressed communities in the Florida Keys**. Countywide, Irma destroyed approximately 4,000 homes. Most of these homes were constructed prior to the current building code with insufficient elevation and wind-load design resilience. Many residential roads throughout the Keys remained flooded in the aftermath of Hurricane Irma but have also experienced prolonged flooding during lesser events. These roads are suffering from the effects of sea level rise and insufficient storm water drainage systems.



Figure 1: Hurricane Irma Damage in Big Pine Key, 2017

Through the Monroe County Comprehensive Plan, the County's elected leadership has demonstrated a strong commitment to enforcing floodplain management strategies, as well as, embracing a better understanding and taking proactive actions to reduce the effects of climate change.

- **Chief Resilience Officer:** The Monroe County Board of County Commissioners has funded a full-time Director and staff to lead and coordinate long-term resilience of the Florida Keys.
- **GreenKeys Action Plan:** The County approved the GreenKeys! Sustainability Action Plan ("GreenKeys! Plan") which made recommendations to address climate and sustainability issues throughout the County and has guided ongoing efforts. Monroe County conducted a Pilot Project to assess the implications of tidal flooding on roadways in two communities. This effort was motivated by two significant events. The first was the release of the County's GreenKeys! Sustainability Action Plan ("GreenKeys! Plan") in 2016, which made recommendations concerning infrastructure planning. The second was the King Tide Tidal Flooding Events of 2015 and 2016, which due to a combination of tidal and storm conditions caused long-term, disruptive flooding. Even before the 2015



and 2016 flooding events, the residents in these communities indicated that they had experienced various levels of increasingly problematic tidal flooding for years, which will only be exacerbated but future predicted flooding conditions. The GreenKeys! Plan indicated that approximately 144 miles of roadways may be exposed to tidal flooding by 2030.

- **Monroe County Pilot Roads Project the Sands and Twin Lakes Communities (Jan 2017):** The County conducted this pilot study based on a data-driven method to identify the appropriate design response to potential flooding effects on roadways for the two communities. The County developed an approach to define alternatives for road improvements in the two pilot communities based on several elements.
  - Assessed past tidal events in the Keys by analyzing a 20-year historic tidal record and determining the statistical probability of tidal flooding for certain events based on that assessment.
  - Identified potential rates of sea level rise increases expected over a 25 year road improvement project lifetime for the road improvements. These values were then added to those derived from past events to define flooding recurrence scenarios for the year 2040.
  - Developed four design response strategies, 6", 12", 18" and 28", of road elevation to evaluate flooding impacts and the benefits gained from those responses. Designing the roads in the community to ensure that all roads are at least at elevation 6" results in a need to raise certain portions of the roads (0.28 miles in the Sands Community, and 0.3 miles in the Twin Lakes Community)
  - Compared design scenarios to tidal flooding recurrence in 2015 and in 2040 to define the performance of design options under various scenarios.
  - Developed design cost estimates for the various identified road elevation scenarios to understand the relative differences in cost between various design options.
  - Provided recommendations on implementation strategies for future road elevation and drainage improvements.
- **National Flood Insurance Program (NFIP) Map Update:** The NFIP is currently revising the Flood Insurance Rate Maps (FIRM) in Monroe County. These new maps will provide important information, data, and maps to build long-term community resilience and support comprehensive planning efforts.



Figure 2: Monroe County Resilience Planning Initiatives



- **NFIP CRS Program:** Monroe County continues to focus efforts to enhance their rating with the NFIP's Community Rating System with the goal of obtaining a Level 4 rating within the next year.
- **Countywide Road Analysis:** The County is also developing a countywide Roadways Study to identify the most vulnerable roadways and detail a long-term strategy to mitigate sea level rise impacts.
- **Adaptation Action Areas (AAA):** The Monroe County Planning Department is currently in the process of developing amendments to the Comprehensive Plan that would allow for the designation of AAA and design a regulatory framework to govern development activities within these areas.
- **Storm Water Management Policies and Practices:** The County is currently evaluating and developing a development toolkit for storm water management activities within Monroe County.
- **Voluntary Home Buyout Program:** Through funding from the CDBG-DR Program, the County is implementing a \$15 Million program to purchase homes damaged by Hurricane Irma, demolish the structure, and dedicate the parcel for either green space or storm water management. The County developed a risk vulnerability scoring system to prioritize homes that are at high risk for flooding and sea level rise. Monroe County continues to seek external funds to buyout homes and support residential flood mitigation activities.

**Multi-jurisdictional Resilience:** This project will enhance multi-jurisdictional resilience by serving as a pilot project for road mitigation among all jurisdictions within the Florida Keys. Due to the unique geology and geography of this Island Archipelago, the road mitigation solutions of the Florida mainland and mainland communities throughout the nation will generally not be effective in the Keys. Monroe County, therefore, must identify mitigation options and engineering solutions uniquely suited to this island community. The road mitigation project will serve as a pilot engineering solution to benefit all jurisdictions in the keys and within Island communities.

**Cultural Significance:** Homes within the Big Pine Key community serve as vital affordable workforce housing stock for the business centers of both Key West and Marathon. Numerous socio-economic factors of the Florida Keys have escalated housing prices disproportionately from worker salaries. Big Pine Key has remained a community where workers can continue to achieve homeownership while living within an acceptable daily commuting distance to their place of employment.

Attached are photos of the project site during periods of flood inundation as well as an overview map of the project site. Project Design and BluePrints are available for viewing in the *BluePrints Section* of this application.



Figure 3: Sands Subdivision Road Mitigation Site Photograph



Figure 4: Layout of a Typical Section for Road Mitigation Project

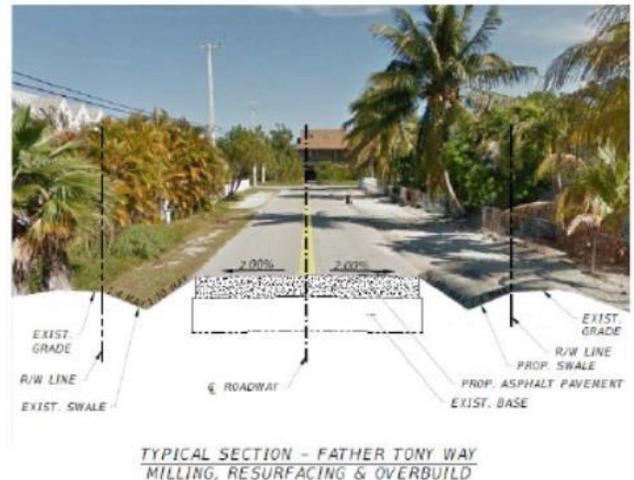
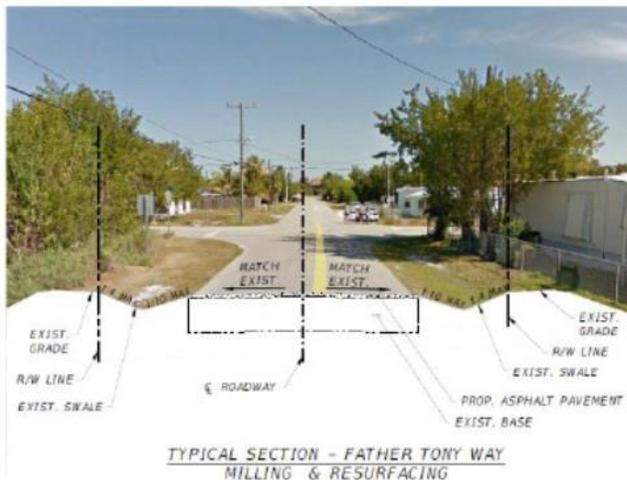




Figure 5: Layout of the Road Mitigation Project Pump Station Layout

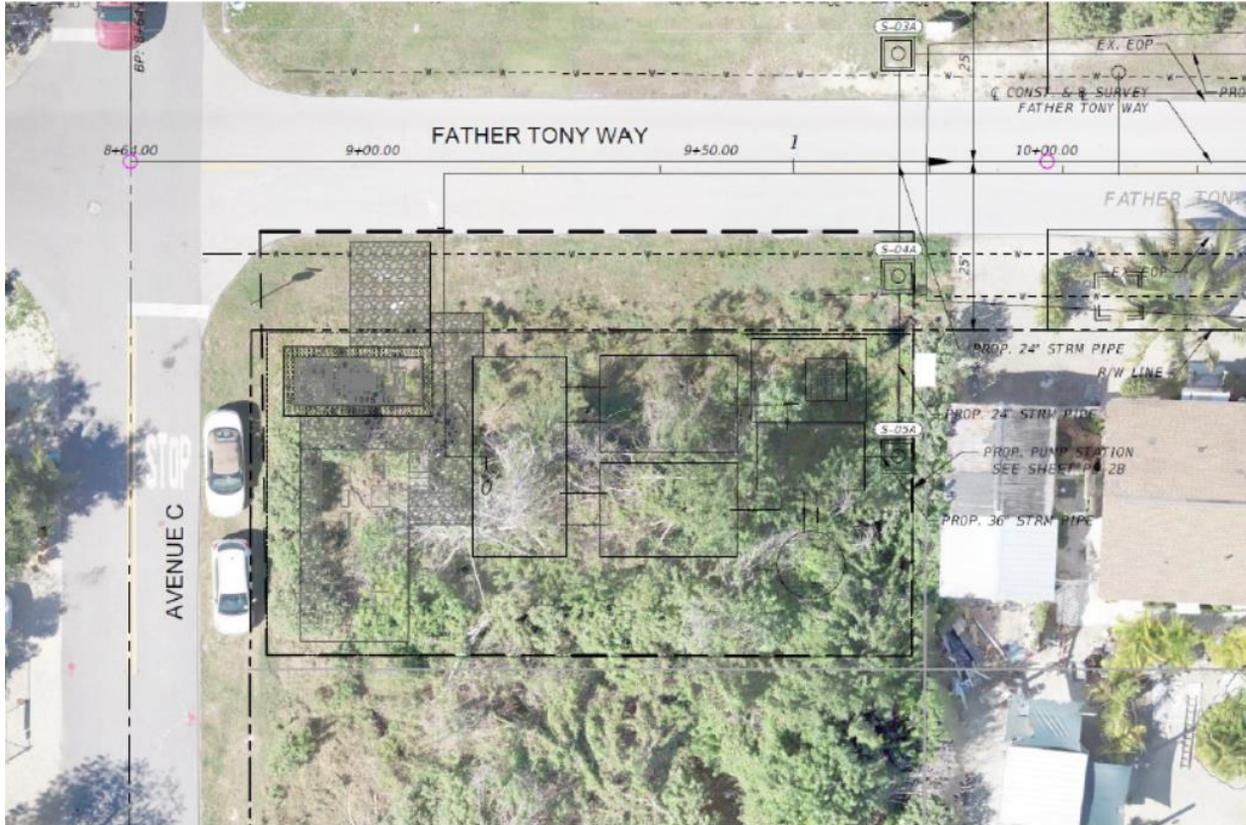




Figure 6: Project Impact Area

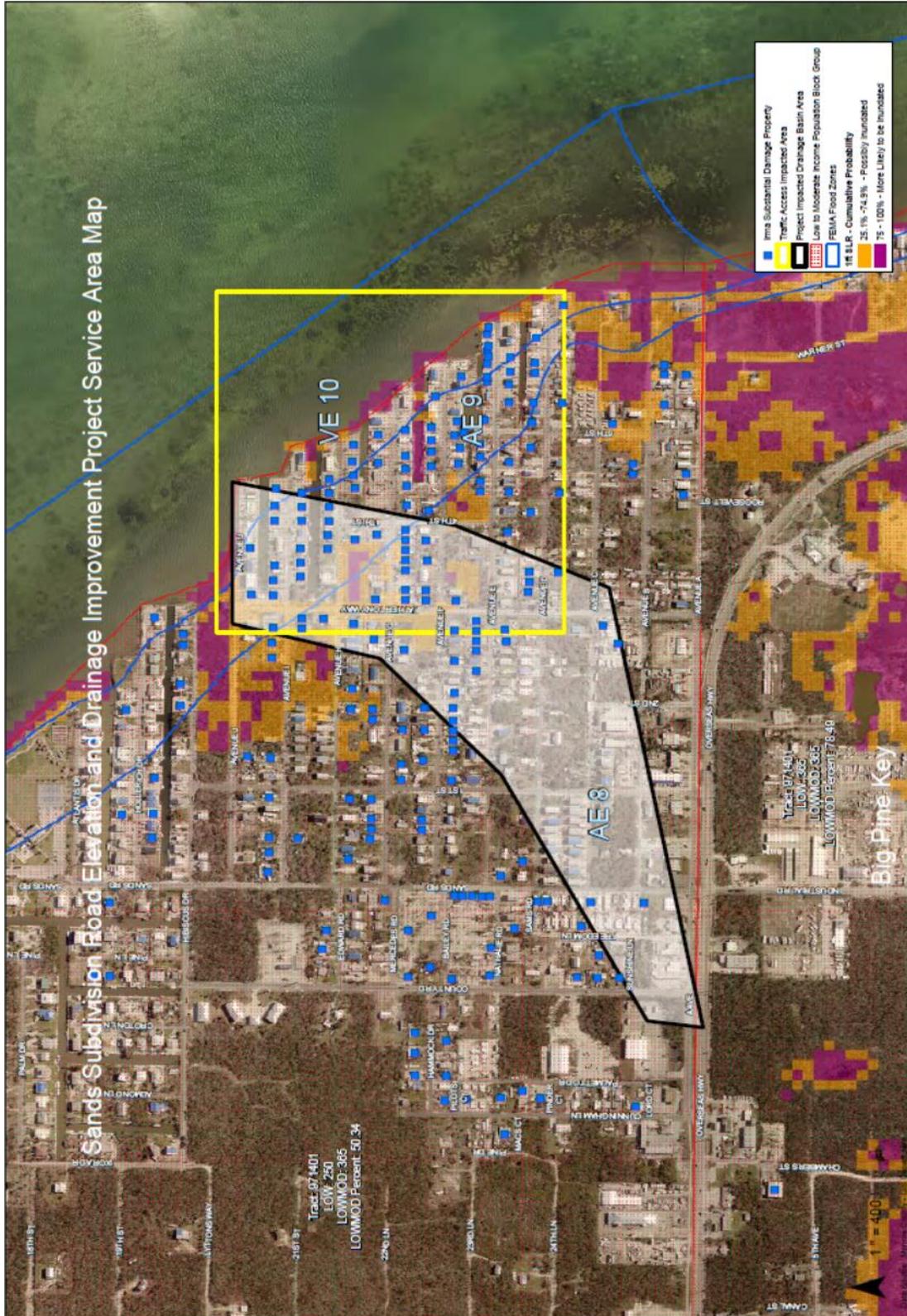




Figure 7: Photograph of Flooding Impacts September 2015





Figure 8: Photograph of Flooding Impacts October 2016





Figure 9: Photograph of Flooding Impacts October 2016

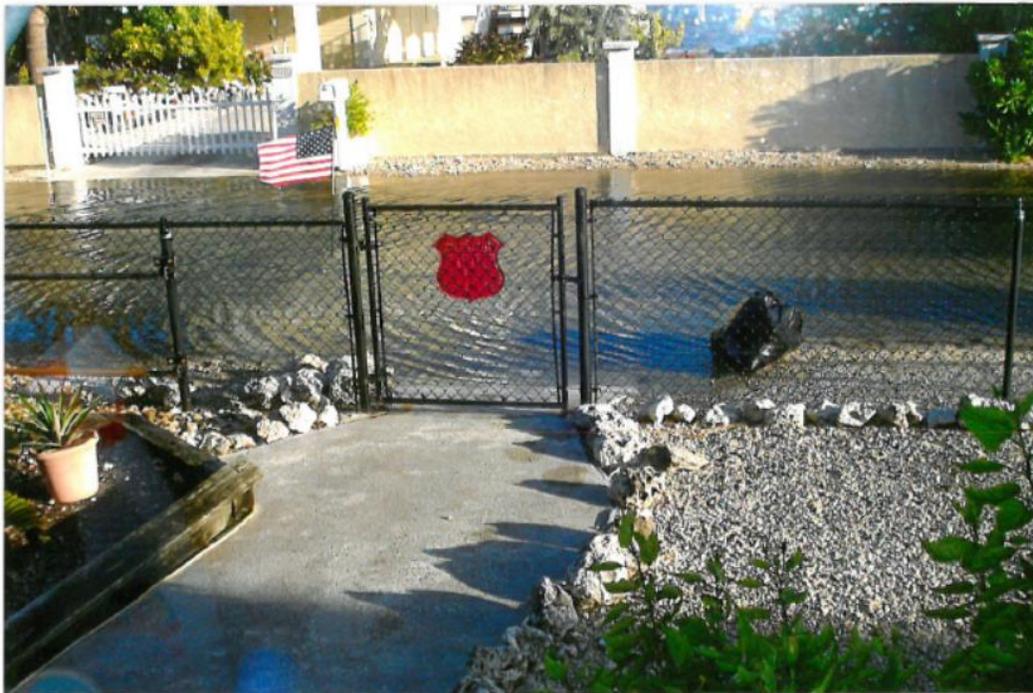


Figure 10: Photograph of Flooding Impacts October 2016





Community Development Block Grant – Mitigation Program
General Infrastructure Program
Sands Subdivision Road Mitigation Project

CAPACITY PLAN

Goal: This grant application requests \$8,520,212 to improve the storm water drainage by enhancing 1,693 linear feet of Father Tony Way. The project would construct a "pump and treat" storm water drainage system. The road will be elevated to approximately 11 inches NAVD 88, and will construct drainage structures, wet wells, pollution treatment device, and an elevated pump station.

Major Tasks: Major tasks to be completed include environmental and historical review, storm water management system construction; construction engineering and inspection (CEI) oversight of contractor during construction and long-term maintenance of roadways and operation of the storm water management system upon completion of construction.

Tasks To Be Accomplished:

Table with 4 columns: No., Task Description, Responsibility, Date. It lists 7 tasks including sub-recipient agreement, soliciting proposals, construction bids, permits, and construction monitoring with completion dates from 2020 to 2022.

Deliverables: The following deliverables will be developed for verification of project success.

- BOCC Approved Sub-recipient Agreement;
• BOCC Approval of Vendor Request for Proposals/Qualifications;
• Release of Request for Qualifications for CEI, and Bids for Construction Contractor Public Notice, Website Post, Demand Star Posting;



- BOCC Approval of Construction Contractor and Construction Engineering and Inspection Services Selection and contract execution;
- Environmental Review Approval by permitting agency;
- Project construction completion target audits and inspection reports;
- Progress Reports, Financial Reports, Invoice Documentation;
- Project Close-out Report.

**Stakeholders:** This project serves the residents of the low to moderate income, Sands Lake Subdivision and the surrounding commercial areas impacted by the strain of the repeated and prolonged flooding. The situation was aggravated by the devastating impact of Hurricane Irma on Big Pine Key, the epicenter of the storm. The Monroe County Board of County Commissioners as well as the staff from the Resilience Department, Public Works, Engineering Services Department have come together cooperatively to seek solutions to the relentless encroachment of flood waters identifying not only engineering solutions but also solutions that work in harmony with the community needs. **The greater Monroe County region and all municipal jurisdictions within are closely observing these initial road mitigation projects to identify best practices and strategic approaches to build community-wide resilience.**

### Staffing Resources

**Project Administrator (PA), Judith Clark, Director of Engineering Services Department:** Judy will serve as the Administrative Program Executive. In this role she will be in charge of communicating with the administrative and politically elected leadership team on the status of the Project. She will approve budgetary issues, financial expenditures, revenues and ensure sufficient resources are available. The Executive will also resolve conflicts among staff, vendors, contractors, permitting agencies, the public and others.

***Experience:** Judith Clarke obtained her Master's Degree in Environmental Engineering from the University of Wisconsin and became a registered Engineer in 2002. During her 23 year Engineering career she has worked in both the public and private sectors managing a range of projects including environmental contamination and compliance, environmental permit compliance, wastewater studies, roadway and parks construction, debris management, and transportation infrastructure. Since 2009 she has managed the Monroe County Engineering Services Department managing personnel, budgets, and capital improvements.*

**Project Manager (PM), Debra London:** The Project Manager provides ongoing coordination of all aspects of the building process, working closely with engineers and architects to develop plans, establish timetables, determine labor and material costs, work plan. She issues the *Notice To Proceed*, verifies permit and inspections are conducted in accordance with local, state, and federal requirements governing construction and



requirements detailed in the sub-recipient agreement with DEO. She ensures the project is completed on budget and within scope.

**Experience:** *Debra London, Florida Certified Contract Manager, is a Project Manager in the roadway improvement program responsible for contracts, including consultant design solicitation and selection, construction bid documents, construction engineering and inspection services consultant solicitation and selection, construction project administration, cost estimate analysis, coordination with State and Federal agencies, Engineers and Contractors. Grants Application and Administration experience includes - CDBG, FEMA, FHWA, FDEP, FDOT.*

**Contract Manager, Olympia Newton** – The Contract Manager will work with the Project Manager to oversee that project performance is within the contractual requirements of the CDBG-DR Subapplicant agreement and vendor contracts. This contract manager is responsible for coordinating, reviewing and approving contract terms to enforce deadlines, approving budgets and ensuring procurement follows Federal Register and grantor requirements, ensures schedules and budget requirements are maintained, assists with procurement and closeout of all contracts and grants. The Contract Manager will process all invoices from vendors and grant reimbursement requests.

**Experience:** *Ms. Newton received her Bachelor's Degree in Business Administration and has sixteen (16) years of professional experience working in procurement, contracts compliance and cost control for public agencies. Since 2018, she has worked as a Senior Engineering Technician for Monroe County Engineering Services Division where she supports Project Managers for engineering projects, studies and contract management. In this position, she manages the vendor bidding process, financial budgets, contracts ensuring compliance. Previously, she was employed by the Florida Keys Aqueduct Authority for fourteen years where she served as an executive administrator and contracts supervisor.*

*Monroe County has been Local Agency Program (LAP) certified by FDOT District 6 since 2010 and as such its policies and procedures comply with Federal Highway Administration requirements.*

**The Finance and Budgeting Department, the Clerk of the Court, as well as the County Attorney Office,** will work with the Project Manager to ensure procurement follows Federal Register and grantor requirements, ensures schedules and budget requirements are maintained, assists with procurement and closeout of all contracts and grants.

**Vendor Services:** In addition to internal staff, Monroe County will solicit vendor services for construction services, and construction, engineering and inspection (CEI) services. All



procurement processes will comply with the procurement standards in 2 C.F.R. §200.318 - §200.326 when procuring property and services under this Agreement.

- **Construction Contractors:** Contractors will be solicited through competitive bid process that meets all requirements established by the Department of Housing and Urban Development and Monroe County Purchasing Policy. Contractors must be pre-qualified by the Florida Department of Transportation (FDOT) in accordance with Florida Statute Chapter 337.14 and FDOT Florida Administrative Code 14-22.
- **Construction Engineering and Inspection Consultants (CEI):** Consultants will be solicited through competitive qualifications based solicitation for Professional Services. The process will meet all requirements established by the Department of Housing and Urban Development and Monroe County Purchasing Policy. To be considered, all consultants to the CEI solicitation must be pre-qualified by the Florida Department of Transportation (FDOT) in accordance with Chapter 337.14 F.S. and Florida Department of Transportation Rules Ch. 14-22. All CEI project staff shall have a working knowledge of the current Construction Project Administration Manual and must possess all the necessary qualifications/certifications, outlined in Work Group 10. The CEI team shall consist, at a minimum of an inspector for daily site work, a project administrator and a Professional Engineer.

### Shovel Ready Project

Engineering Design Services have been solicited and are currently at 90% completion.

The costs for engineering design services are **not** being requested in this grant funding request. The engineering design associated costs, however, are listed in the budget document for informational purposes only and to document Monroe County's leadership financial commitment to this project. This mitigation project is immediately "shovel ready".

**Budget Resources:** The Monroe County Board of County Commissioners dedicated \$365,500 in local general revenue funds to complete the design of this roadway mitigation project. This CDBG-MIT GIP requests only the funds to construct this shovel ready project.

In 2017 Hurricane Irma left not only a devastating blow to the community but also to the local government budget. As payments have been received from the Federal Emergency Management Agency and insurance proceeds, the county has been able to regain financial solvency. The Covid-19 epidemic, however, has again left a deep impact on revenue sources that derive from tourism and sales. These revenue losses will likely have



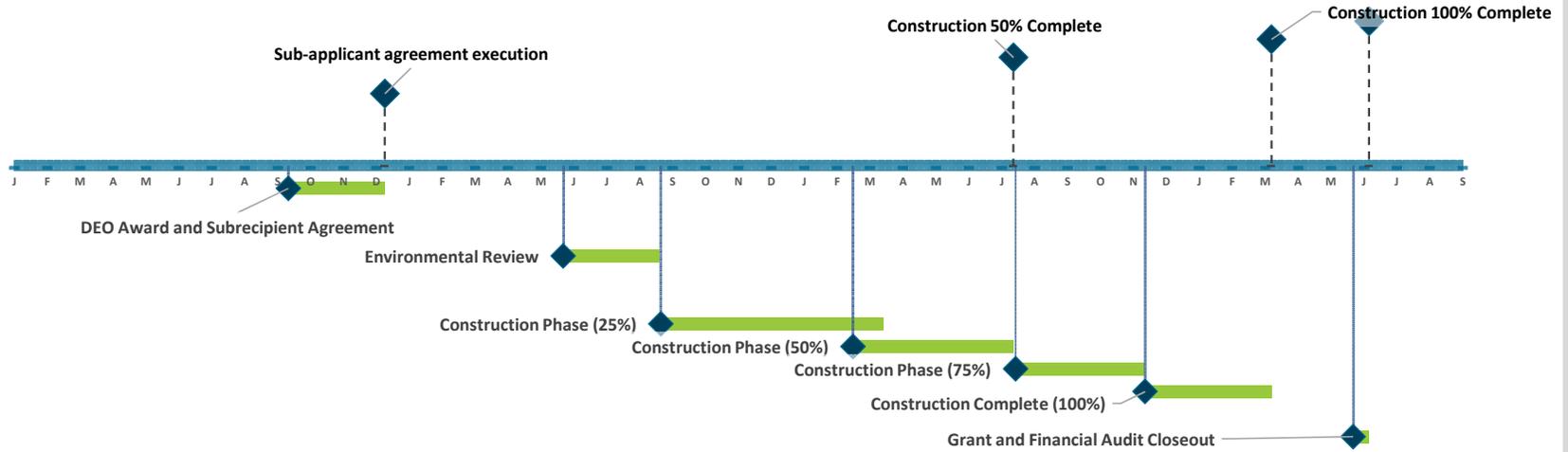
long lasting impacts. The county is currently under a hiring freeze and purchasing freeze with close to 50 positions permanently cut.

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Despite severe financial hardship, it is Monroe County's goal to continue to move forward in these critical mitigation projects. Approving CDBG-MIT GIP funds for this project will ensure that Monroe County can build resilience within the Safety and Security, Transportation, and Health and Medical Lifelines of the most distressed post Hurricane Irma community.

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# Monroe County, Sands Subdivision Road Mitigation Project General Infrastructure Program Implementation Plan Timeline







**Community Development Block Grant – Mitigation Program  
General Infrastructure Program  
Monroe County Sands Subdivision Road Mitigation Project**

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**BLUEPRINTS / ARCHITECTURAL DESIGNS**

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S-3B	VALVE BOX PLAN AND SECTIONS
S-4B	TREATMENT UNIT PLAN AND SECTIONS
S-5B	INLET BOX PLAN AND SECTIONS

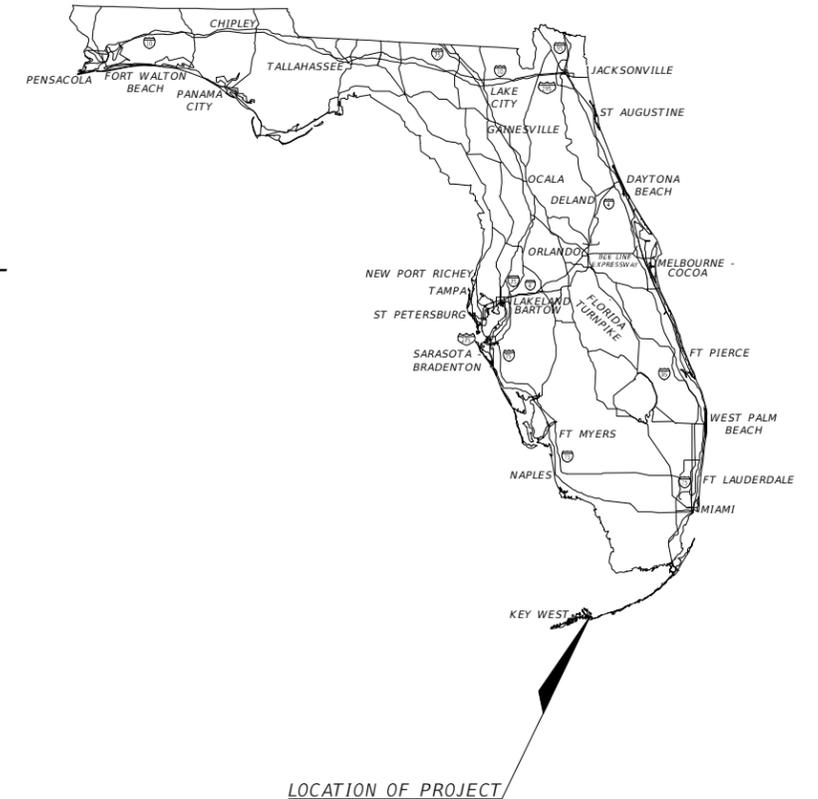
MONROE COUNTY  
DEPARTMENT OF ENGINEERING

CONTRACT PLANS

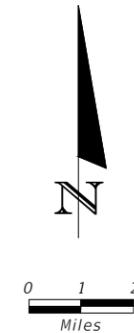
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT  
KEY LARGO AND BIG PINE KEY  
VOLUME B - BIG PINE KEY



LOCATION OF PROJECT



LOCATION OF PROJECT



PLANS PREPARED BY:



WSP USA  
7650 CORPORATE CENTER DRIVE, SUITE 300  
MIAMI, FLORIDA 33126  
C.A. # 01462

NOTE: SCALE SHOWN ON DRAWINGS CORRESPONDS TO PLOT SIZE 11"X17". IF DRAWINGS ARE PLOTTED ON OTHER SIZE SHEET, ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

90% SUBMITTAL  
NOT FOR CONSTRUCTION

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2019-20 Standard plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

Standard Plans for Road Construction and associated Irs are available at the following website: <https://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July, 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

MONROE COUNTY BOARD OF COMMISSIONERS:

SYLVIA MURPHY (MAYOR)	DISTRICT 5
DANNY KOLHAGE (MAYOR PRO TEAM)	DISTRICT 1
HEATHER CARRUTHERS	DISTRICT 3
DAVID RICE	DISTRICT 4
MICHELLE COLDIRON	DISTRICT 2

PROJECT LENGTH IS BASED ON  $\varnothing$  CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	1676.48	0.318
BRIDGES	0	0
NET LENGTH OF PROJECT	1676.48	0.318
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	1676.48	0.318

MONROE COUNTY PROJECT MANAGER: DEBRA LONDON

ROADWAY PLANS  
ENGINEER OF RECORD: ANDRES CARDONA, P.E.  
P.E. NO.: 63917

FISCAL YEAR	SHEET NO.
19	G-1B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MONROE COUNTY  
SEA LEVEL RISE ROADWAY AND  
DRAINAGE PILOT PROJECT - BIG PINE KEY  
SUMMARY OF PAY ITEMS

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1.00
102-1	MAINTENANCE OF TRAFFIC	DA	120.00
104-10-3	SEDIMENT BARRIER	LF	277.92
104-18	INLET PROTECTION	EA	29.00
110-1-1	CLEARING & GRUBBING	AC	1.18
120-1	REGULAR EXCAVATION	CY	27.30
120-6	EMBANKEMENT	CY	5.00
160-4	STABILIZATION TYPE B	SY	378.72
285-704	OPTIONAL BASE, BASE GROUP 04	SY	378.72
286-1	TURNOUT CONSTRUCTION	SY	43.78
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	5498.12
334-1-11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	TN	600.60
530-74	BEDDING STONE (NO. 57 STONE)	TN	272.82
570-1-2	PERFORMANCE TURF, SOD	SY	1397.11
700-1-60	SINGLE POST SIGN, RELOCATE	AS	14.00
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	26.00
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID 24"	LF	194.06
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.06
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.25
10-50-16-003	UTILITY PIPE,REMOVE & DISPOSE, 5-7.9"	LF	420.00
1050-51-206	6" WM DI PIPE FURNISH & INSTALL	LF	420.00
425-5	Adjust Manhole (Utilities) (Top Adjustment)	SY	2.00
120-1	REGULAR EXCAVATION	CY	4066.00
448-73	PUMP STATION DRAINAGE	LS	1.00
	FURNISH AND INSTALL PUMPS: FLYGT MODEL LL3602/845	EA	4.00
	FURNISH AND INSTALL CONTECH TREATMENT UNIT: MODEL CDS5678	EA	1.00
	ELECTRICAL (INCL VFD, ELECT SERVICE, ETC.)	LS	1.00
0125-3	SELECT BEDDING MATERIAL	CY	395.00
1050-51224	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 24"	LF	578.00
1050-51230	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 36"	LF	456.00
	UTILITY PIPE-DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 48"	LF	477.00
1080-29124	UTILITY FIXTURE, MECHANICAL JOINT RESTRAINT, FURNISH & INSTALL, 24"	EA	30.00
1080-11509	UTILITY FIXTURES, F&I, 20-49.9", MECHANICAL JOINT RESTRAINT	EA	18.00
1055 51124	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH AND INSTALL ELBOW, 24"	EA	14.00
	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH AND INSTALL ELBOW, 36"	EA	4.00
	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH AND INSTALL ELBOW, 48"	EA	5.00
1055-11425	UTILITY FITTING,F&I,DI/CI,TEE,20-49.9"	EA	12.00
1055-51524	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL, CAP/PLUG, 24"	EA	1.00
1055-11435	UTILITY FITTINGS, F&I, DI/CI, REDUCER, 20 - 49.9"	EA	3.00
1080-24124	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 24" FOR GATE AND SWING VALVES	EA	20.00
1080-24102	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 2"	EA	2.00
1050-16002	UTILITY PIPE,REMOVE & DISPOSE, 2-4.9"	LF	300.00
425-1541	INLETS, DT BOT, TYPE D <10'	EA	29.00
425-2-71	MANHOLES, J-7 <10'	EA	11.00

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
425-2-72	MANHOLES, J-7 >10'	EA	1.00
425-2127	DRAINAGE MANHOLE, UTILITY CONFLICT STRUCTURE	EA	1.00
430-173-115	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 15" SD	LF	30.00
430-173-118	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 18" SD	LF	341.00
430-173-124	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 24" SD	LF	1426.00
430-173-136	PIPE CULVERT, OPTIONAL MATERIAL ROUND, 36" SD	LF	151.00
	FURNISH AND INSTALL INJECTION WELLS AND ANCILLARY EQUIPMENT (EXCEPT GATE VALVES)	LS	12.00
0400-4-25	SUPPORT OF EXCAVATION-COFFERDAM	LS	1.00
0400-4-25	CONCRETE-PUMP STATION	CY	269.40
0415-1-6	MISCELLANEOUS STEEL-PUMP STATION	LB	80990.52

PAY ITEMS NOTES:

- PAY ITEM MEASUREMENTS ARE PER FDOT STANDARD SPECIFICATIONS.
  - 286-1: INCLUDES COST OF  
XXX SY BRICK DRIVEWAYS  
XXX SY GRAVEL DRIVEWAYS  
XXX SY ASPHALT DRIVEWAYS  
XXX SY CONCRETE DRIVEWAYS
  - 448-73: INCLUDES STRUCTURAL, ELECTRICAL AND ANCILLARY EQUIPMENT
- \* REFER TO DETAIL ON SHEET PS-8A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
P.E. LICENSE NUMBER 63917  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462



**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)**  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

SUMMARY OF PAY ITEMS

SHEET NO.

SQ-1B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF DRAINAGE STRUCTURES

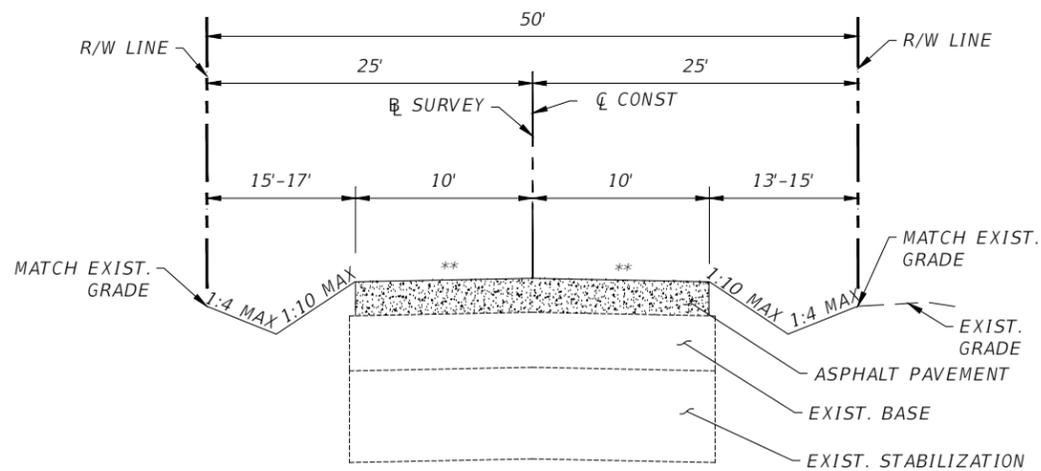
STR. NO.	STATION	OFFSET (FT)	SIDE	DESCRIPTION	RIM	NORTHING	EASTING	BOT.	INVERT BACK	INVERT AHEAD	INVERT LEFT	INVERT RIGHT
IW-1	10+10.40	18.63	R	Injection Well	2.92	122961.58	542013.44	-6.50				
IW-2	10+85.97	37.44	L	Injection Well	2.93	123038.08	541958.63	-5.50				
IW-3	12+31.09	18.41	R	Injection Well	2.23	123182.25	542016.90	-7.00				
IW-4	13+22.59	50.74	L	Injection Well	2.42	123274.89	541949.28	-5.00				
IW-5	14+09.25	18.58	R	Injection Well	1.31	123360.38	542020.03	-7.00				
IW-6	15+09.74	18.58	R	Injection Well	1.10	123460.86	542021.71	-7.80				
IW-7	16+20.52	15.41	L	Injection Well	0.78	123572.20	541988.57	-7.00				
IW-8	17+41.67	15.29	L	Injection Well	0.86	123693.34	541990.71	-7.00				
IW-9	18+98.25	16.74	L	Injection Well	0.91	123849.92	541991.88	-7.00				
IW-10	20+00.50	14.31	L	Injection Well	1.03	123952.11	541996.01	-6.00				
IW-11	21+62.42	14.23	L	Injection Well	0.93	124114.01	541998.78	-6.00				
IW-12	23+18.63	14.27	L	Injection Well	0.89	124270.20	542001.35	-10.25				
S-01	9+77.47	49.73	R	Manhole	1.08	122928.14	542043.99	-8.20	-6.20		-6.20	
S-02	9+77.54	18.28	R	Manhole	2.60	122928.74	542012.54	-6.66			-6.19	-6.19
S-03	9+77.49	17.59	L	Manhole	2.60	122929.29	541976.67	-6.63		-6.18		-6.18
S-04	10+69.84	17.53	L	Inlet	2.40	123021.62	541978.27	-6.23	-6.15	-6.15		-3.00
S-05	10+72.39	18.12	R	Inlet	2.40	123023.58	542013.96	-2.98			-2.90	
S-06	12+06.12	15.58	L	Inlet	2.20	123157.85	541982.50	-6.18	-6.10	-6.10		-3.20
S-07	12+10.70	17.13	R	Inlet	2.20	123161.89	542015.28	-3.18			-3.10	
S-08	13+04.62	15.58	L	Inlet	2.00	123256.33	541984.14	-6.15	-6.07	-6.07		-3.40
S-09	13+05.28	16.68	R	Inlet	2.00	123256.46	542016.41	-3.38			-3.30	
S-10	13+68.71	15.58	L	Inlet	1.40	123320.42	541985.21	-6.14	-6.06	-6.06		
S-11	14+39.91	15.58	L	Inlet	1.20	123391.61	541986.40	-6.15	-6.07	-6.05		-4.80
S-12	14+39.87	16.64	R	Inlet	1.20	123391.03	542018.61	-4.78			-4.70	
S-13	15+42.03	15.58	L	Inlet	1.10	123493.71	541988.10	-6.07	-5.99			-5.95
S-14	15+44.00	16.34	R	Inlet	0.90	123495.15	542020.05	-5.98		-5.78	-5.90	
S-15	15+77.46	15.91	R	Conflict Manhole	1.17	123528.63	542019.16	-4.83	-5.75	-5.65		
S-16	16+39.81	16.57	L	Inlet	0.50	123591.52	541987.73	-5.18				-5.10
S-17	16+38.18	17.00	R	Inlet	0.70	123589.33	542021.27	-5.68	-5.60	-5.40	-5.20	
S-18	17+69.77	16.60	L	Inlet	0.85	123721.45	541989.87	-5.18		-5.10		
S-19	17+73.38	16.87	R	Inlet	0.85	123724.51	542023.40	-5.37	-5.29	-5.29	-5.20	
S-20	18+43.96	14.57	L	Inlet	0.87	123795.60	541993.13	-4.88				-4.80
S-21	18+43.85	16.11	R	Inlet	0.87	123794.98	542023.81	-5.08	-5.00	-5.00	-4.90	
S-22	19+59.39	16.79	L	Inlet	0.75	123911.05	541992.84	-4.78				-4.70

STR. NO.	STATION	OFFSET (FT)	SIDE	DESCRIPTION	RIM	NORTHING	EASTING	BOT.	INVERT BACK	INVERT AHEAD	INVERT LEFT	INVERT RIGHT
S-23	19+59.62	16.11	R	Inlet	0.70	123910.73	542025.74	-4.97	-4.89	-4.89	-4.80	
S-24	20+14.59	16.79	L	Inlet	1.05	123966.25	541993.76	-4.38				-4.30
S-25	20+15.91	17.38	R	Inlet	0.85	123967.00	542027.95	-4.91	-4.83	-4.50	-4.40	
S-26	20+75.43	16.77	L	Inlet	1.05	124027.08	541994.80	-3.68				-3.60
S-27	20+74.87	16.18	R	Inlet	1.00	124025.96	542027.73	-4.53	-4.45	-3.74	-3.70	
S-28	22+10.72	16.77	L	Inlet	0.85	124162.35	541997.05	-3.48				-3.40
S-29	22+10.71	20.18	R	Inlet	0.85	124161.73	542033.99	-3.68	-3.60	-3.60	-3.50	
S-30	23+50.67	13.13	L	Inlet	0.70	124302.22	542003.03	-3.68		-3.60		-3.60
S-31	23+50.87	17.80	R	Inlet	0.80	124301.90	542033.95	-3.68	-3.60		-3.60	
S-32	24+81.84	13.25	L	Inlet	0.53	124433.37	542005.10	-3.68	-3.60			-3.10
S-33	24+74.68	18.62	R	Inlet	0.54	124425.68	542036.84	-3.18			-3.10	

- NOTE:
1. INLETS AND MANHOLES TO BE PER F.D.O.T. INDEX NO. 425-001 & 425-010.
  2. CONFLICT MANHOLE TO BE PER F.D.O.T. INDEX NO. 425-080.
  3. ALL STRUCTURES ARE LOCATED IN FATHER TONY WAY.

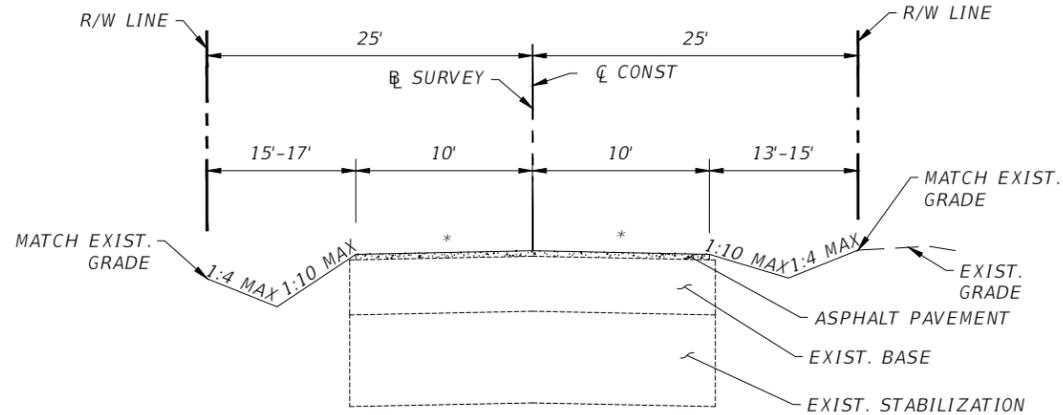
REVISIONS				ANDRES CARDONA, P.E. P.E. LICENSE NUMBER 63917 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					SD-1B

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TYPICAL SECTION - FATHER TONY WAY  
MILLING, RESURFACING & OVERBUILD, NTS

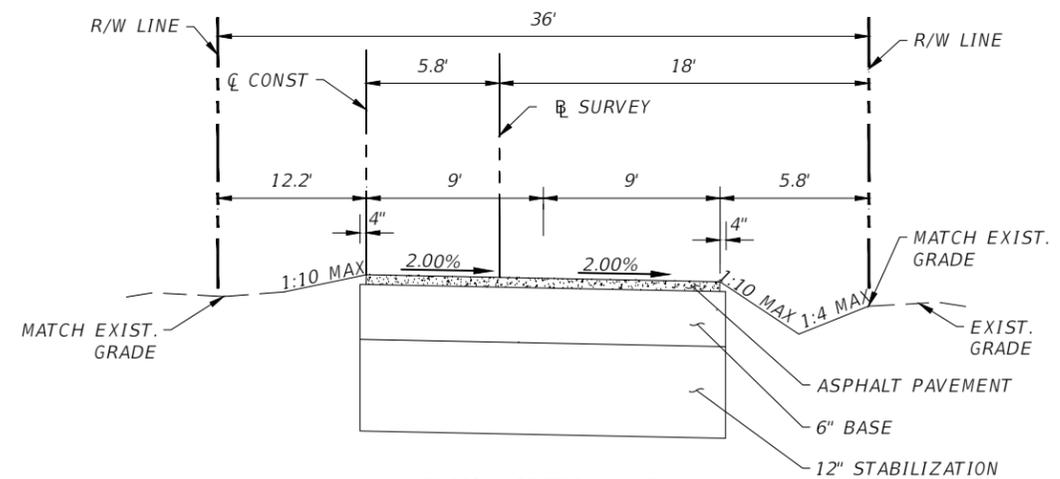
STA. 18+25.61 TO STA. 19+59.61  
STA. 23+19.64 TO STA. 25+20.06



TYPICAL SECTION - FATHER TONY WAY  
MILLING & RESURFACING, NTS

STA. 10+65.23 TO STA. 18+25.61  
STA. 19+59.61 TO STA. 23+19.64

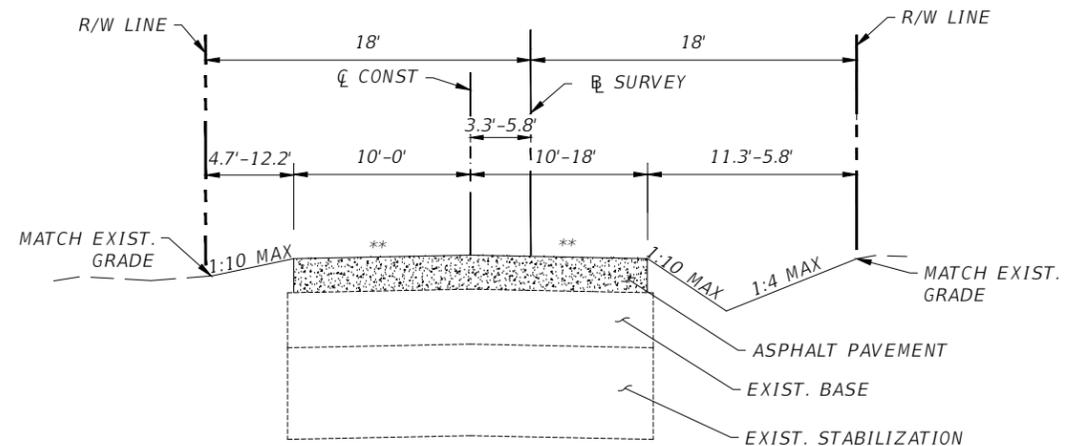
\* MATCH EXISTING  
\*\* VARIES - SEE PLAN SHEET



TYPICAL SECTION - AVE J  
RECONSTRUCTION, NTS

12" STABILIZED SUBGRADE LBR 40  
6" (GROUP 4) LIME ROCK BASE  
TYPE SP A.S STRUCTURAL COURSE ASPHALT 1"  
TYPE SP (TRAFFIC A) 1"

STA. 11+29.15 TO STA. 12+22.06



TYPICAL SECTION - AVE J  
MILLING, RESURFACING & OVERBUILD, NTS

STA. 10+00.41 TO STA. 11+29.15

**NOTES:**

1. CONTRACTOR SHALL VERIFY EXISTING UNPAVED SHOULDER COMPOSITION PRIOR TO BIDDING. FINISH SHOULDER MATERIAL TO BE SOD OR NO 57 STONE.
  2. ALL COUNTY ROW/SWALES TO BE 2 INCH 57 STONE UNLESS SOD EXISTS. IF SOD EXISTS, REPLACE WITH BAHIA.
  3. IF SPECIALTY ROCK DRIVEWAY (FOR EXAMPLE RIVER ROCK OR GRANITE) EXIST TO THE ROAD BED, DO NOT DISTURB.
- MILLING & RESURFACING:
4. VARIABLE MILLING (0"-2")
  5. RESURFACE WITH 2" ASPHALT PAVEMENT (TYPE SP 9.5)
  6. RE-GRADE SHOULDER TO SPECIFIED CROSS SLOPES.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
P.E. LICENSE NUMBER 63917  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

TYPICAL SECTIONS

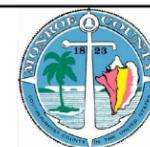
SHEET NO.

G-2B



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
 P.E. LICENSE NUMBER 63917  
 WSP USA, 7650 CORPORATE CENTER DRIVE,  
 SUITE 300, MIAMI, FLORIDA 33126  
 CERTIFICATE OF AUTHORIZATION 01462



**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

PROJECT LAYOUT

SHEET NO.

G-3B

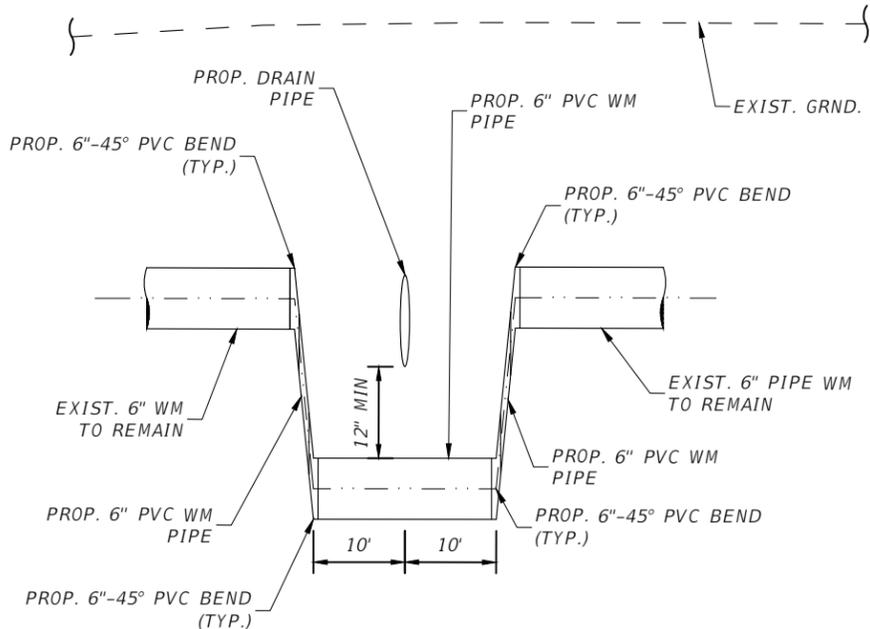
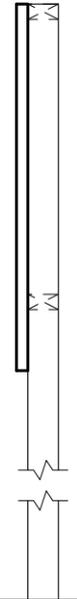
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**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT**

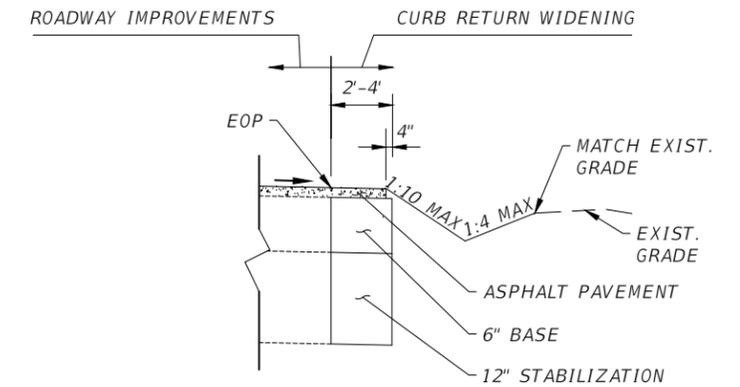
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT  
 BOARD COUNTY COMMISSIONERS: COUNTY ADMINISTRATOR: ROMAN GASTESI  
 MAYOR SYLVIA MURPHY, DISTRICT FIVE  
 MAYOR PRO TEAM DANNY KOLHAGE, DISTRICT ONE  
 HEATHER CARRUTHERS, DISTRICT THREE  
 DAVID RICE, DISTRICT FOUR  
 MICHELLE COLDIRON, DISTRICT TWO

PROJECT COST:

PROJECT SPONSORED BY THE MONROE COUNTY BOARD OF COMMISSIONERS



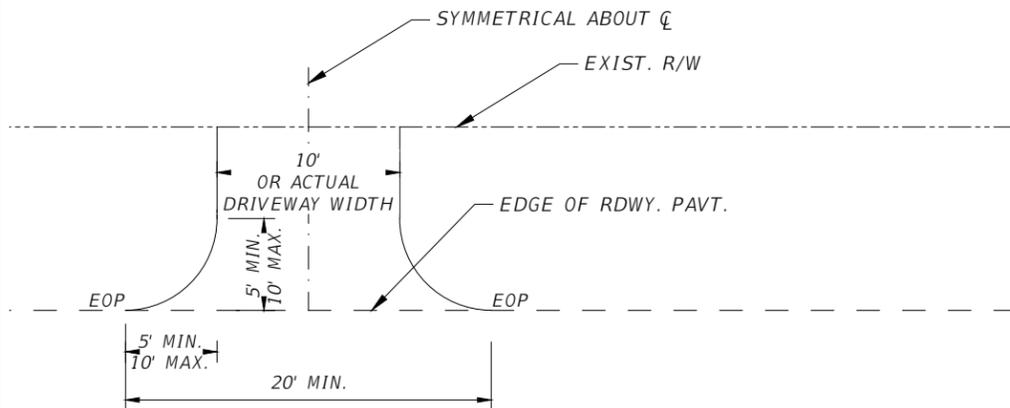
**EXISTING 6" WATER MAIN, RELOCATION DETAIL**  
 PROFILE VIEW  
 N.T.S.



**CURB RETURN WIDENING DETAIL**  
 N.T.S.

**NOTE:**

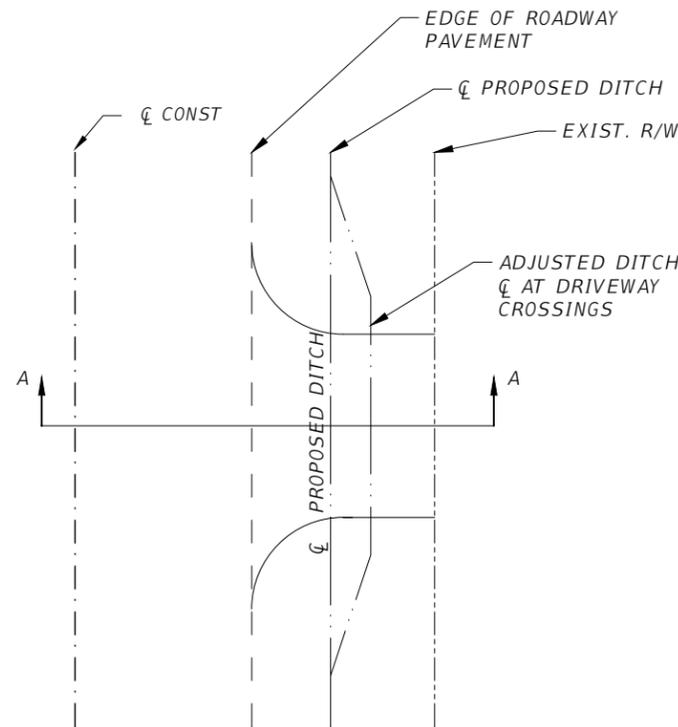
1. BOLT SIGN TO FRAME THRU 4" X 4" MEMBERS WITH WASHERS AND NUT
2. ALL WOOD FRAMING SHALL BE PRESSURE TREATED
3. CONTRACTOR SHALL VERIFY AL ELECTED OFFICIALS AT TIME OF BID AND UPDATE SIGN AS NEEDED.



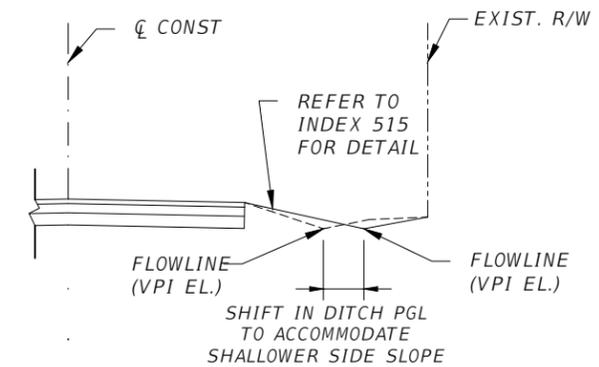
**NOTE:**

1. MATCH EXISTING DRIVEWAY PAVEMENT COMPOSITION
2. DRIVEWAY RECONSTRUCTION SHALL BE PAID UNDER PAY ITEM FOR TURNOUT CONSTRUCTION. NEW DRIVEWAY SHALL MATCH EXISTING DRIVEWAY PAVEMENT COMPOSITION. WHERE ASPHALT DRIVEWAY IS NEEDED, THE ASPHALT COURSE SHALL BE TRAFFIC LEVEL A (1"). CONCRETE DRIVEWAYS SHALL BE MINIMUM OF 6" THICK.

**DRIVEWAY TURNOUT DETAIL**  
 N.T.S.



**PLAN VIEW**  
 N.T.S.



**SECTION A-A**  
 N.T.S.

**NOTES:**

1. SEE TYPICAL SECTIONS FOR PROPOSED DITCH GRADING
2. IN AREAS WHERE A SPECIAL DITCH PROFILE IS NOT PROPOSED, THE CONTRACTOR SHALL ESTABLISH THE DRIVEWAY VPI ELEVATION TO MAINTAIN DRAINAGE PATTERNS.

**DRIVEWAY CROSSING DETAIL**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
 P.E. LICENSE NUMBER 63917  
 WSP USA, 7650 CORPORATE CENTER DRIVE,  
 SUITE 300, MIAMI, FLORIDA 33126  
 CERTIFICATE OF AUTHORIZATION 01462



**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

SHEET NO.

SPECIAL DETAILS

G-4B

**GENERAL NOTES**

1. ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT MUST BE IN ACCORDANCE WITH APPLICABLE CODES & AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS ("FLORIDA GREEN BOOK"), FDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019, AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT STANDARDS. ANY DISCREPANCY MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF MONROE COUNTY & THE ENGINEER OF RECORD.
2. CONTRACTOR RESPONSIBLE FOR DETERMINING APPROPRIATE STAGING AREA PRIOR TO BIDDING. STAGING IN RESIDENTIAL NEIGHBORHOODS ON PRIVATE PROPERTY MAY REQUIRE A LENGTHY PERMIT PROCESS. USE FDOT R/W FOR STAGING IF AVAILABLE.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH PROJECT SITE & TO DETERMINE TOPOGRAPHIC OR UNDERGROUND FEATURES THAT WILL BE IMPACTED DUE TO HIS/HER PROPOSED METHOD OF CONSTRUCTION. CONTRACTOR SHOULD REPORT ANY DISCREPANCIES TO THE COUNTY AND EOR PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR MUST INCLUDE IN HIS/HER BID PRICE, THE COST OF RELOCATING OR REPLACING IN KIND ANY FEATURES THAT WILL BE IMPACTED DUE TO HIS/HER PROPOSED METHOD OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO EXISTING TREES, UTILITY BOXES, SIGNS, FIRE HYDRANTS, GUARDRAILS, UTILITY POLES, VALVES, ETC. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED BY MONROE COUNTY IN THE EVENT THE CONTRACTOR NEGLECTS TO ACCOUNT FOR THIS WORK IN HIS/HER BID PRICE.
4. THE CONTRACTOR SHALL CLEAR AND GRUB THE PROJECT SITE ONLY TO THE EXTENT NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ANY TREE REMOVAL, CANOPY TRIMMING, OR ROOT PRUNING NECESSARY FOR THE CONSTRUCTION SHALL BE PAID FOR UNDER "CLEARING AND GRUBBING", PAY ITEM 110-1-1.
5. THE CONTRACTOR SHALL SAWCUT, REMOVE AND DISPOSE OF EXISTING PAVEMENT BEYOND PROPOSED EDGE OF PAVED RETURNS (RADII) AND BEYOND PROPOSED EDGE OF DRIVEWAYS AT HIS EXPENSE.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, & UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING UTILITY NOT SPECIFIED FOR REMOVAL WHICH IS DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY THE CONTRACTOR, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE COUNTY.
7. IF GRADE DIFFERENCE AT THE EDGE OF THE PROPOSED PAVEMENT OCCURS, CONTRACTOR SHALL REWORK EXISTING SHOULDER WITH LIMEROCK TO MATCH THE EDGE OF PROPOSED PAVEMENT GRADE.
8. ALL POT HOLES DEEPER THAN 2" SHALL BE CLEARED OF ALL LOSE DEBRIS, TACK COATED, FILLED WITH ASPHALT AND ROLLED PRIOR TO LEVELING OVERLAY ASPHALT.
9. BASE MATERIAL EXPOSED MORE THAN 24 HOURS SHALL BE PRIMED AND COATED FOR PROTECTION.
10. PER USPS STANDARDS, THE CONTRACTOR MUST COORDINATE AND GET APPROVAL FROM RESIDENTS FOR ANY MAILBOXES IN CONFLICT WITH CONSTRUCTION TO BE MOVED BY CONTRACTOR JUST INSIDE THE RESIDENTS PROPERTY TO ALLOW MAIL DELIVERY DURING THE WORK. MAIL BOXES ARE TO BE RE-INSTALLED BY THE CONTRACTOR AT THE END OF THE CONSTRUCTION. BIDDERS SHOULD INCLUDE THIS COST IN THE MOBILIZATION BID ITEM.
11. IF THE CONTRACTOR WISHES TO ENTER INTO SEPARATE AGREEMENTS WITH PROPERTY OWNERS TO PAVE DRIVEWAYS THE PROPERTY OWNER MUST OBTAIN THE PROPER PERMIT FROM MONROE COUNTY PUBLIC WORKS DEPARTMENT BEFORE ANY SUCH PAVING IS BEGUN. THE CONTRACTOR IS TO SUPPLY A LIST OF ANY SUCH PROPERTY OWNER TO THE PUBLIC WORKS DEPARTMENT PRIOR TO COMPLETION OF THE PROJECT.
12. ANY NECESSARY ENCROACHMENTS OUTSIDE OF R/W SHALL BE IDENTIFIED BY THE CONTRACTOR AND NOTIFIED TO THE HOMEOWNERS WITH A 30 DAY WRITTEN NOTICE.
13. NO LATER THAN CONCLUSION OF EACH DAY OPERATION, CONTRACTOR SHALL THOROUGHLY CLEAN SPILLED SOIL, GRAVEL OR OTHER FOREIGN MATERIAL CAUSED BY THE CONSTRUCTION OPERATIONS FROM THE STREETS AND ROADS.
14. ALL DISTURBED STREETS, ROADS, DETOURS, OR HAUL ROADS IN THE PROJECT AREA SHALL BE TREATED AS REQUIRED, WITH WATER.
15. THE CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTY OWNERS AT ALL TIMES. POTHOLES, TRENCHES, AND OTHER CONSTRUCTION IMPACTS SHALL BE PROPERLY PLATED OR FILLED FOR ACCESS PURPOSES AND WILL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC PAY ITEM NO. 102-1.
16. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES OPEN, UNCOVERED OR EXPOSED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES WHEN THE CONTRACTOR IS NOT WORKING.
17. CONTRACTOR SHALL KEEP THE SITE FREE FROM DEBRIS, TRASH, & CONSTRUCTION WASTE. CONTRACTOR IS ALLOWED TO STORE MATERIAL STOCKPILED WHERE WORK IS ONGOING FOR MAX. 48 HOURS. ALL ROADS SHALL BE KEPT ACCESSIBLE TO EMERGENCY VEHICLES.
18. CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. A WATER TRUCK SHALL BE MAINTAINED ON SITE AT ALL TIMES. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN MAINTENANCE OF TRAFFIC.
19. CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS PRIOR TO THE START OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO AN NPDES NOI PERMIT & ANY OTHER ASSOCIATED PERMIT.
20. ALL LANDSCAPED/OPEN AREAS, PAVEMENTS & OTHER AREAS IMPACTED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE COUNTY.
21. DRIVEWAY RECONSTRUCTION SHALL BE PAID UNDER PAY ITEM FOR TURNOUT CONSTRUCTION. NEW DRIVEWAY SHALL MATCH EXISTING DRIVEWAY PAVEMENT COMPOSITION. WHERE ASPHALT DRIVEWAY IS NEEDED, THE ASPHALT COURSE SHALL BE TRAFFIC LEVEL A. CONCRETE DRIVEWAY SHALL BE A MINIMUM OF 6" THICK.
22. EXISTING SIGNS IN CONFLICT WITH A PROPOSED SWALES AREA SHALL BE PROTECTED. EXISTING SIGNS WITHIN CURVE IMPROVEMENTS SHALL BE RELOCATED ACCORDING TO SIGNING PAVING MARKING DETAILS.
23. IN THE EVENT CONTAMINATED MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY ADVISE MONROE COUNTY AND ENGINEER OF RECORD.
24. ANY MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE COUNTY.
25. GEOTECHNICAL EXPLORATIONS WERE CARRIED OUT ON THE PROJECT SITE BY TERRACON CONSULTANTS, INC. AND A REPORT DATED JANUARY 31TH 2019 WAS GENERATED. THIS REPORT IS INCLUDED AS PART OF THE PROJECT'S SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THIS REPORT & ITS RECOMMENDATIONS FOR DEALING WITH POTENTIAL SITE ISSUES. THE CONTRACTOR MUST INCLUDE AS PART OF HIS/HER BID PRICE THE RESOURCES NECESSARY TO INCORPORATE THE RECOMMENDATIONS OF THE REFERENCED REPORT.
26. CONTRACTOR SHALL PREPARE & SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATIONS.
27. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE & FLUSH WITH EXISTING PAVEMENT.
28. ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION.
29. RADII, DIMENSIONS AND ELEVATIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
30. GRADES SHOWN ARE FINISHED GRADES.
31. R/W BREAK LINES STATIONS AND OFFSETS ARE MEASURED FROM CENTERLINE OF CONSTRUCTION.
32. CONTRACTOR IS FULLY RESPONSIBLE TO RESTORE EXISTING TRAFFIC RELATED INFRASTRUCTURE DAMAGED DURING CONSTRUCTION. THE CONTRACTOR MUST COORDINATE WITH MONROE COUNTY ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
33. AN APPROVED SET OF CONSTRUCTION PLANS AND CONTRACT DOCUMENTS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE AT ALL TIMES DURING OPERATIONS.
34. CONTRACTOR SHALL PROVIDE TO THE COUNTY'S REPRESENTATIVE, PRIOR TO CONSTRUCTION OF THE PROJECT, A CERTIFICATE THE FLORIDA DEPARTMENT OF AGRICULTURE AND SERVICES DIVISION OF PLANT INDUSTRY, STATING SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE NOXIOUS WEEDS INCLUDING TROPICAL SODA APPLE.
35. CONTRACTOR IS FULLY RESPONSIBLE FOR RESTORING ALL PAVEMENT MARKINGS WITH NEW STRIPING AS SHOWN ON PLANS. FINAL PAVEMENT STRIPING MUST BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARDS. ALL CONSTRUCTION WORK EFFORT ASSOCIATED WITH THIS ITEM MUST BE INCLUDED IN THE BID PRICE.
36. ALL ELEVATIONS ON THE PLAN & PROFILE SHEETS REFER TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD-1988).
37. ALL PUBLIC CORNERS AND PRIMARY NETWORK CONTROL SURVEY MONUMENTS ARE TO BE PROTECTED BY THE CONTRACTOR, CORNERS AND MONUMENTS WITHIN THE WORK ZONE AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH MINIMUM TECHNICAL STANDARDS OF THE BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO THE BEGINNING OF THE WORK. UPON PROJECT COMPLETION CONTRACTOR SHALL RESTORE ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO DISTRICT LOCATION SURVEYOR A SIGNED AND SEALED COPY OF THE LAND SURVEYOR.
38. THE B/L SURVEY AS SHOWN ON THE PLANS IS TO BE USED FOR REFERENCE ONLY. THE B/L SURVEY WAS PROVIDED BY LONGITUDE SURVEYORS, LLC. - EDUARDO M. SUAREZ, PSM - CERTIFICATE NO. 6313.
39. CONTRACTOR MUST COMPLY WITH ALL HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS AS STATED IN THE FLORIDA ADMINISTRATIVE CODE (F.A.C.) RULE 62-555.314.
40. CONTRACTOR WILL BE REQUIRED TO MAKE A PRE-CONSTRUCTION VIDEO FOR HIS/HER RECORDS AND SUBMIT A COPY OF THE VIDEO TO THE COUNTY AND EOR FOR THEIR RECORDS.
41. GRASSED AREAS: UNLESS OTHERWISE SPECIFIED ON CONSTRUCTION DRAWINGS, DETAILS AND SPECIFICATIONS, PROVIDE SOLID SODDING OF BAHIA WHERE PROPOSED SOD IS CALLED OUT ON THE CONSTRUCTION DOCUMENTS.
42. CONTRACTOR TO DOCUMENT IN VIDEO OR PICTURES THE CONDITIONS OF SITE AND ANY SPECIFIC AREA TO BE MODIFIED DUE TO CONSTRUCTION ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE MODIFIED AREAS AS FOUND PRIOR TO CONSTRUCTION, UNLESS OTHERWISE INSTRUCTED BY THE COUNTY.

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**UTILITIES NOTES**

1. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL 811 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION/DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS WITHIN THE PROJECT'S LIMITS (INCLUDING THOSE LISTED BELOW), COORDINATING AND OBTAINING PROPOSED RELOCATION/INSTALLATION SCHEDULES FOR ALL IMPACTED UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND VERIFYING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND PROPOSED LOCATIONS.
3. THE LOCATION & SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL ADVISE IF CONFLICTS EXIST AND PROPOSE A SOLUTION FOR EOR TO APPROVE. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT & NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
4. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO TAKE ADEQUATE MEASURES TO ENSURE SAFETY WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL, TELEPHONE & OTHER UTILITIES. PROPER COORDINATION WITH JURISDICTIONAL AUTHORITIES MUST BE UNDERTAKEN AS APPLICABLE.
5. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR TEMPORARY RELOCATION/FIELD ADJUSTMENT TO FACILITATE CONNECTION OF PROPOSED DRAINAGE SYSTEM.
6. CONTRACTOR MUST ENSURE THAT PRECISE RECORDS ARE TAKEN PRIOR TO BACKFILLING OVER UTILITIES. AS-BUILTS MUST CONFORM TO APPLICABLE STANDARDS & REQUIREMENTS STIPULATED BY THE PROJECT SPECIFICATIONS.
7. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
8. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING AND RETROFITTING ALL UTILITY INFRASTRUCTURE WITHIN THE PROPOSED ROAD IMPROVEMENTS SUCH THAT THEY ARE FLUSH WITH THE PROPOSED SURFACE AND ARE TRAFFIC RATED WHETHER THEY ARE SHOWN IN THE PLANS OR NOT. THESE TYPES OF INFRASTRUCTURE INCLUDE BUT ARE NOT LIMITED TO VALVE COVERS, MANHOLES, ETC. THESE ADJUSTMENTS AND RETROFITS MUST BE COORDINATED WITH THE OWNERS OF THE FACILITIES AND THE COSTS MUST BE INCLUDED IN THE BID PRICE. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THE ABOVE.
9. THE CONTRACTOR SHALL CUT AND PLUG EXISTING ABANDONED UTILITY IN CONFLICT WITH THE INSTALLATION OF THE PROPOSED DRAINAGE STRUCTURE. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER PRIOR TO CUTTING THE UTILITY AND INSTALLING THE STRUCTURES, IF THE UTILITY IS A MAIN LARGER THAN 4-INCH, THE UTILITY MAY BE FILLED WITH GROUT.
10. UTILITY OWNERS:  
  

FLORIDA KEYS AQUEDUCT AUTHORITY	305-295-2154
FLORIDA KEYS ELECTRIC COOPERATIVE	305-852-2431
KEY LARGO WASTEWATER TREATMENT DISTRICT	305-451-4019

**PRE-TRENCHING NOTES**

1. UTILITIES SHOWN ON THESE PLANS SHEETS ARE APPROXIMATE & ADDITIONAL UTILITIES MAY EXIST IN THE FIELD THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR MUST INCLUDE AS PART OF HIS/HER BID, AN ITEM FOR PRE-TRENCHING TO ENSURE THAT NO PORTION OF THE PROPOSED WORK CONFLICTS WITH ANY UTILITIES, PRIOR TO CONSTRUCTION. IF POTENTIAL CONFLICTS ARE FOUND, THEN THE CONTRACTOR MUST NOTIFY THE OWNER, ENGINEER & UTILITY OWNER AT LEAST SEVEN (7) DAYS ADVANCED NOTICE PRIOR TO CONSTRUCTION. THIS NOTIFICATION SHALL INCLUDE SURVEY INFORMATION ABOUT THE CONFLICTING UTILITY'S HORIZONTAL & VERTICAL ALIGNMENT. FAILURE ON THE CONTRACTOR'S PART TO PRE-TRENCH PRIOR TO CONSTRUCTION IS AT HIS/HER OWN RISK & BY SO DOING RELIEVES THE OWNER & THE ENGINEER OF ANY & ALL LIABILITIES & COSTS ASSOCIATED WITH RESOLVING UTILITY CONFLICTS. IN ADDITION, NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR ANY COSTS INCURRED AS A RESULT OF FAILURE ON THE CONTRACTOR'S PART TO PRE-TRENCH.
2. EXTREME CAUTION MUST BE USED DURING ANY EXCAVATION. ALL EXCAVATIONS MUST BE SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED AS INDICATED IN THE GEOTECHNICAL REPORT'S RECOMMENDATIONS.
3. CONTRACTOR MUST UTILIZE SUBSURFACE UTILITY ENGINEERING METHODS & CORING TO DISCLOSE THE PRESENCE OF ROCK, UTILITIES & OTHER SUBSURFACE ELEMENTS NOT INDICATED ON TOPOGRAPHY SURVEY.
4. CONTRACTOR MUST ENGAGE IN CONSULTATIONS WITH IDENTIFIED UTILITY OWNERS.
5. PRE-TRENCHING DIRECTIONS TO CONTRACTOR:
  - A. CONTRACTOR MUST UTILIZE A SUPPORT SYSTEM STURDY ENOUGH TO WITHSTAND THE PRESSURE OF THE SOIL.
  - B. CONTRACTOR MUST UTILIZE A SUPPORT SYSTEM STURDY ENOUGH TO WITHSTAND THE STRESS WHICH MAY BE EXERTED BY WATER, VIBRATION, OR HEAVY LOADS.
  - C. CONTRACTOR MUST PROPERLY SUPPORT ANY UNDERGROUND INSTALLATIONS THAT ARE UNCOVERED.
  - D. CONFORM TO FLORIDA'S TRENCH SAFETY ACT & OSHA REQUIREMENTS.
6. BEFORE TRENCHING OR EXCAVATION, CONTRACTOR MUST CHECK THE FOLLOWING:
  - A. SOIL CONDITIONS OR OTHER MATERIAL TO BE REMOVED.
  - B. PROXIMITY TO UTILITIES, BUILDINGS & SOURCES OF VIBRATIONS.
  - C. OWNERS OF UTILITIES, SERVICE, OR TRANSMISSION PIPING, ETC. & ARRANGE FOR SHUTDOWN OR RELOCATION OF FACILITIES, IF NECESSARY.
  - D. FOR PREVIOUSLY DISTURBED GROUND.
  - E. FOR TREES, BOULDERS, OR OTHER HAZARDS.
  - F. ADEQUACY & AVAILABILITY OF ALL EQUIPMENT, INCLUDING PERSONAL PROTECTIVE GEAR, SHORING MATERIALS, SIGNS, BARRICADES & MACHINERY.
7. DURING TRENCHING OR EXCAVATION, CONTRACTOR MUST REGULARLY CHECK

FOR THE FOLLOWING:

- A. CHANGING GROUND CONDITIONS PARTICULARLY AFTER RAINFALL.
- B. POSSIBLE OXYGEN DEFICIENCY OR GASEOUS CONDITIONS.
- C. ADEQUACY OF SHORING AND/OR SLOPING AS WORK PROGRESSES.
- D. MAINTENANCE OF ENTRANCE & EXIT FACILITIES.
- E. ALL SHEETING, BRACING, SHORING & UNDERPINNING.
- F. CHANGES IN VEHICULAR & MACHINERY OPERATIONAL PATTERNS
8. AFTER TRENCHING OR EXCAVATION, THE CONTRACTOR MUST CHECK FOR:
  - A. DEPTH OF TRENCHING OR EXCAVATION, ITS SLOPING & SHORING.
  - B. SLOPING OF BANKS, SIDES & WALLS 1M RELATION TO DEPTH OF CUT, WATER CONTENT OF SOIL, VIBRATIONS.
  - C. ENTRANCE & EXIT FACILITIES.
  - D. LOCATION OF HEAVY EQUIPMENT - POWER SHOVELS, DERRICK, TRUCKS.
  - E. EXCAVATION MATERIAL IS TWO FEET OR MORE FROM EDGE OF OPENING.
  - F. PORTABLE TRENCH BOXES OR TRENCH SHIELDS ARE ADEQUATE, IF USED.
  - G. CROSS BRACES OR TRENCH JACKS ARE CORRECTLY POSITIONED TO PREVENT SLIDING, FALLING OR KICKOUTS.
9. PRE-TRENCHING REQUIREMENTS CHECKLIST:
  - A. PRIOR TO EXCAVATION. THE CONTRACTOR MUST UNDERTAKE EFFORTS TO DETERMINE UNDERGROUND INSTALLATIONS SUCH AS SEWER, TELEPHONE, WATER, GAS, ELECTRIC LINES, ETC. ARE PRESENT & WHERE THEY ARE ACTUALLY LOCATED.
  - B. THE WALLS & FACES OF ALL EXCAVATIONS IN WHICH EMPLOYEES ARE EXPOSED TO DANGER FROM MOVING GROUND SHALL BE GUARDED BY A SHORING SYSTEM, SLOPING OF THE GROUND OR SOME OTHER EQUIVALENT MEANS.
  - C. THE DETERMINATION OF THE ANGLE OF REPOSE & DESIGN OF THE SUPPORTING SYSTEM SHALL BE BASED ON CAREFUL EVALUATION OF PERTINENT FACTORS SUCH AS: DEPTH OF CUT, POSSIBLE VARIATION IN THE WATER CONTENT OF THE MATERIALS FROM EXPOSURE TO AIR, SUN AND/OR WATER.
  - D. ALL SLOPES SHALL BE EXCAVATED TO AT LEAST THE ANGLE OF REPOSE EXCEPT IN AREAS WHERE SOLID ROCK ALLOWS FOR LINE DRILLING OR PRESPLITTING.
  - E. IN EXCAVATIONS WHICH EMPLOYEES MAY BE REQUIRED TO ENTER, EXCAVATED OR OTHER MATERIALS SHALL BE EFFECTIVELY STORED & RETAINED AT LEAST 2 FT OR MORE FROM THE EDGE OF THE EXCAVATION.

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**PAVING NOTES**

1. RESURFACING OF MILLED AREAS SHALL BE COMPLETED WITHIN 3 CALENDAR DAYS OF MILLING OPERATION TO MINIMIZE POTHOLE DEVELOPMENT AND INCONVENIENCES TO MOTORING PUBLIC.
2. UNLESS OTHERWISE INDICATED, ONLY ROADWAY LANES AFFECTED BY ACTUAL CONSTRUCTION OR DAMAGED BY CONSTRUCTION EQUIPMENT SHALL BE MILLED AND RESURFACED. LANES DAMAGED BY CONSTRUCTION EQUIPMENT OR BY THE IMPROPER OPERATION OF CONSTRUCTION EQUIPMENT SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. ALL RESTORATION SHALL COMPLY WITH THE STANDARDS AND REQUIREMENTS OF FDOT AND MONROE COUNTY.
3. CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, UTILITY ACCESS BOXES, CATCH BASINS, VALVE BOXES TO BE FLUSH WITH FINISH GRADES.
4. CONTRACTOR SHALL POST SIGNS NOTIFYING RESIDENTS OF PAVING SCHEDULE DAYS AT LEAST 48 HOURS IN ADVANCE.

**GRADING NOTES**

1. OSHA TRENCH SAFETY COMPLIANCE - THE CONTRACTOR SHALL UTILIZE TRENCH BOXES OR OTHER APPROVED MEANS TO COMPLY WITH THE FLORIDA TRENCH SAFETY ACT (FLORIDA STATUTE SECTIONS 553.60-553.63), AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650 SUBPART P.
2. EXCESS EXCAVATED MATERIAL - EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE AND AUTHORIZED BY JURISDICTIONAL AUTHORITIES. CONTRACTOR MUST COMPLY WITH APPLICABLE SECTIONS OF TECHNICAL SPECIFICATIONS.
3. CONSTRUCTION DEBRIS SHALL NOT BE BURIED OR LEFT ON SITE DURING OR AFTER CONSTRUCTION. ADVERSE IMPACTS TO PROPOSED WORK OR ALREADY CONSTRUCTED WORK BY DEBRIS MUST BE AVOIDED.
4. LANDSCAPED AREAS & OTHER PERVIOUS AREAS THAT DO NOT HAVE A DEFINED DRAINAGE COLLECTION SYSTEM SHALL BE GRADED TO ENSURE POSITIVE DRAINAGE.

**MOT NOTES**

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE FDOT DESIGN STANDARDS (102-600 SERIES), THE 2019 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AS MINIMUM CRITERIA.
2. THE POSTED SPEED LIMITS SHALL REMAIN AT ALL TIMES DURING CONSTRUCTION.
3. MAINTAIN ACCESS TO ALL PROPERTIES FOR EMERGENCY VEHICLES AND SOLID WASTE SERVICES.
4. MAINTAIN CLEAR DRIVEWAY ACCESS TO ALL PROPERTIES.
5. PROVIDE AND MAINTAIN ACCESS TO THE LOCAL TRAFFIC AND BUSINESSES AT ALL TIMES DURING CONSTRUCTION PER FDOT STANDARD INDEX 600.
6. THE MAINTENANCE OF TRAFFIC (MOT) PLANS FOR THE PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST PRODUCE HIS/HER OWN MOT PLANS & MUST HAVE SAID PLANS APPROVED BY OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION. RESIDENTS ACCESS TO THEIR HOMES AND ACCESS FOR EMERGENCY VEHICLES SHOULD BE PROVIDED AT ALL TIMES. THE COST ASSOCIATED WITH THIS EFFORT MUST BE REFLECTED IN THE BID. NO ADDITIONAL COMPENSATION WILL BE GRANTED BY THE COUNTY FOR MOT COSTS ASSOCIATED WITH THIS PROJECT AFTER PROJECT AWARD. MOT PLANS THAT IMPACT US-1 SHALL BE APPROVED BY FDOT.
7. MOT PLANS SHALL INCLUDE BUT NOT LIMITED TO MESSAGE BOARDS TO INFORM DRIVERS OF CONSTRUCTION ON ROADWAY & MAINTAINING CROSSING ACCESS, ETC. CONTRACTOR IS ALSO RESPONSIBLE FOR NOTIFYING ALL SCHOOLS & EMERGENCY SERVICES WITHIN THE VICINITY OF THE PROJECT LIMITS ABOUT THE CONSTRUCTION SCHEDULE.
8. ALL WORK SHALL BE PERFORMED DURING DAY TIME ONLY 7A.M. TO 7P.M. CONTRACTOR TO COORDINATE WITH COUNTY'S REPRESENTATIVE PRIOR TO BEGIN CONSTRUCTION.

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**ENVIRONMENTAL NOTES**

**1. GENERAL ENVIRONMENTAL NOTES:**

THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE MONROE COUNTY PROJECT CEI REPRESENTATIVE AT LEAST SEVENTY TWO (72) HOURS PRIOR TO USE. STAGING AREAS ON PARCELS NEED TO BE APPROVED AND PERMITTED BY THE MONROE COUNTY BUILDING DEPARTMENT AT (305)-289-2501.

ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL DEVICES, COST TO BE INCLUDED IN THE RELATED BID ITEM.

**2. WETLANDS & OTHER SURFACE WATERS:**

THE CONTRACTOR IS ADVISED THAT WETLAND AND OTHER SURFACE WATERS (NATURAL WATER BODIES AND SIMILAR OPEN OR PARTIALLY OPEN WATER AREAS, WATERS OF THE UNTIED STATES) ARE ADJACENT TO THE PROJECT. THE CONTRACTOR SHALL NOT IMPACT THESE WETLANDS OR PROTECTED OTHER SURFACE WATERS. WETLANDS CANNOT BE USED AS STAGING OR STOCKPILE AREAS.

THE CONTRACTOR SHALL NOT IMPACT WETLANDS ADJACENT TO THE PROJECT CORRIDOR. PRIOR TO OR AT THE TIME OF THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER TO FIELD-VERIFY THE EXTENT AND BOUNDARY OF WETLAND VEGETATION ON SITE, SILT FENCES WILL BE INSTALLED AT CONSTRUCTION AREAS ADJACENT TO WETLANDS, AND MAINTAINED IN GOOD CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

ANY MATERIAL INADVERTENTLY PLACED IN WETLANDS OR OTHER SURFACE WATERS SHALL BE REMOVED BY HAND. ANY ACCIDENTAL DAMAGE CAUSED TO PROTECTED/PRESERVED WETLANDS AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL IMMEDIATELY BE REPORTED TO THE PROJECT MANAGER AND PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE REMEDIATION OF ANY SUCH DAMAGE IN ACCORDANCE WITH DIRECTIVES AND SPECIFICATIONS PROVIDED BY THE PROJECT MANAGER OR THE MANAGER'S DESIGNEE.

SILT FENCES SHALL NOT BE PLACED WITHIN THE LIMITS OF ANY WETLANDS OR OTHER SURFACE WATERS. IF HAY BALES ARE USED FOR EROSION CONTROL, PLACEMENT OF THESE BALES WITHIN WETLANDS SHOULD BE AVOIDED EXCEPT IN SITUATIONS WHERE LOCATION OF STAKED BALES IN WETLANDS IS ABSOLUTELY NECESSARY TO ADEQUATELY CONTROL EROSION AND TURBIDITY.

THIS PROJECT IS ADJACENT TO THE WATERS OF THE ATLANTIC OCEAN AND FLORIDA BAY, WHICH ARE DESIGNATED OUTSTANDING FLORIDA WATERS. NO DEGRADATION OF WATER QUALITY, INCREASED TURBIDITY IN THE WATER, AND/OR DISCHARGE OF ANY FOREIGN MATERIAL INTO THE WATER SHALL BE PERMITTED.

**3. PROTECTION OF LISTED SPECIES:**

VARIOUS ANIMALS DESIGNATED BY STATE AND FEDERAL AGENCIES AS ENDANGERED, THREATENED, OR SPECIES OF SPECIAL CONCERN (E.G., "LISTED SPECIES") MAY BE PRESENT IN THE GENERAL PROJECT AREA. SUCH SPECIES INCLUDE, BUT ARE NOT LIMITED TO, KEY LARGO WOODRAT (*Neotoma floridana smalli*), KEY LARGO COTTON MOUSE (*Peromyscus gossypinus allapaticola*), STOCK ISLAND TREE SNAIL (*Orthalicus reses reses*), FLORIDA TREE SNAIL (*liguus fasciatus*), SCHAUS' SWALLOWTAIL BUTTERFLY (*Heraclides aristodemus ponceanus*), WHITE-CROWNED PIGEON (*Columba leucocephala*), SNOWY EGRET (*Egretta thula*), LITTLE BLUE HERON (*Egretta carulia*), TRICOLORED HERON (*Egretta tricolor*), WHITE IBIS (*Eudocimus albus*), BROWN PELICAN (*Pelicanus occidentalis*), ROSEATE SPOONBILL (*Platalea haliaetus*), AMERICAN CROCODILE (*Crocodylus acutus*), AMERICAN ALLIGATOR (*Alligator mississippiensis*), EASTERN INDIGO SNAKE (*Drymarchon corals couperi*), AND RIM ROCK CROWNED SNAKE (*Tantilla oolitica*). THE CONTRACTOR SHOULD BE AWARE THAT STATE AND FEDERAL REGULATIONS PROHIBIT HARMING OR HARASSING ANY LISTED SPECIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PROJECT PERSONNEL, INCLUDING SUB-CONTRACTORS, ARE AWARE OF AND ABIDE BY ALL REQUIREMENTS PERTAINING TO LISTED ANIMAL AND PLANT SPECIES. THIS RESPONSIBILITY EXTENDS TO ENSURING PROJECT PERSONNEL ARE AWARE OF AND ABIDE BY THE REQUIREMENT FOR INSPECTING VEGETATION CLEARING/TRIMMING AREAS FOR THE PRESENCE OF BIRD NESTS AND THE PROHIBITION AGAINST DAMAGING SUCH NESTS WITHOUT PRIOR APPROVAL (SEE GENERAL VEGETATION CLEARING AND TRIMMING NOTES).

IT IS OFTEN DIFFICULT FOR UNTRAINED PERSONNEL TO CORRECTLY IDENTIFY LISTED SPECIES. BECAUSE OF THIS, THE CONTRACTOR SHALL NOT HARM OR HARASS ANY ANIMAL SPECIES ENCOUNTERED DURING PROJECT CONSTRUCTION. SHOULD THESE SPECIES BE ENDANGERED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONTACT THE MONROE COUNTY PROJECT MANAGER WITHIN 24 HOURS OF EACH ENCOUNTER.

THE FOLLOWING PRECAUTIONS WILL BE TAKEN IF AN AMERICAN CROCODILE OR AMERICAN ALLIGATOR IS ENCOUNTERED DURING CONSTRUCTION: ALL WORKERS SHALL BE NOTIFIED, THE ALLIGATOR OR CROCODILE SHALL BE ALLOWED TO LEAVE THE SITE ON ITS OWN AND SHALL NOT BE DISTURBED, HERDED, INJURED, OR KILLED. THE CONTRACTOR SHALL KEEP A DAILY LOG DETAILING ALL SIGHTINGS, INJURIES, OR KILLINGS. AFTER PROJECT COMPLETION, REPORTS SUMMARIZING THESE EVENTS SHALL BE SUBMITTED TO THE MONROE COUNTY PROJECT MANAGER. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED OR THREATENED SPECIES. SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE MONROE COUNTY PROJECT MANAGER WITHIN 24 HOURS OF EACH ENCOUNTER.

THE FOLLOWING PRECAUTIONS WILL BE TAKEN IF AN EASTERN INDIGO SNAKE IS ENCOUNTERED DURING CONSTRUCTION: ALL WORKERS SHALL BE NOTIFIED. THE SNAKE SHALL BE ALLOWED TO LEAVE THE SITE ON ITS OWN AND SHALL NOT BE DISTURBED, HERDED, INJURED, OR KILLED. FENCING SHALL NOT BE ERECTED, AS THE SNAKE MAY SUSTAIN INJURY IF IT BECOMES ENTANGLED IN THE MESH. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED OR THREATENED SPECIES, SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE MONROE COUNTY PROJECT MANAGER WITHIN 24 HOURS OF EACH ENCOUNTER.

**4. PROTECTED HARDWOOD HAMMOCK:**

PROTECTED HARDWOOD HAMMOCK HABITAT IS LOCATED ADJACENT TO SOME AREAS OF THE PROJECT, THIS HABITAT CONTAINS PROTECTED VEGETATION AS WELL AS SEVERAL OF THE LISTED SPECIES IDENTIFIED ABOVE. THEREFORE, IT IS CRITICAL THAT THE SAME LEVEL OF PRECAUTION BE APPLIED TO AVOIDING IMPACTS TO THIS HABITAT AS MUST BE APPLIED TO PROTECTED WETLANDS.

PRIOR TO CONSTRUCTION, SILT FENCES MUST BE INSTALLED ALONG THE EDGE OF HAMMOCK VEGETATION TO REDUCE DUST FROM ENTERING THE HAMMOCK FLOOR AND TO CLEARLY DELINEATE THE AREAS THAT MUST BE AVOIDED DURING CONSTRUCTION ACTIVITIES, INCLUDING STAGING, WALKING, AND EQUIPMENT MOVEMENTS.

**5. GENERAL VEGETATION CLEARING AND TRIMMING:**

PROJECT CONSTRUCTION ACTIVITIES WITHIN THE PROJECT LIMITS OF CONSTRUCTION (LOC) MAY REQUIRE TRIMMING OF PORTIONS OF TREES AND SHRUBS THAT EXTEND INTO THE LOC FROM VEGETATION THAT IS LOCATED OUTSIDE OF BUT ADJACENT TO THE LOC. THESE TREES AND SHRUBS MUST BE PROTECTED WHERE FEASIBLE.

ALL TRIMMING OF NATIVE TREES AND SHRUBS, AND ANY ROOT TRIMMING OR PRUNING NECESSARY TO CONSTRUCT THE PROJECT, MUST BE CONDUCTED BY OR PERFORMED UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST, CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. COST TO BE INCLUDED IN THE RELATED BID ITEM.

THE CLEARING OR REMOVAL OF EXISTING NATIVE VEGETATION LOCATED OUTSIDE THE PROJECT LOCATION IS PROHIBITED, UNLESS OTHERWISE INDICATED IN THE PLANS. IF NATIVE VEGETATION, INCLUDING LANDSCAPING MATERIALS, LOCATED OUTSIDE SAID AREAS IS IMPACTED WITHOUT AUTHORIZATION OR TREES SPECIFIED TO BE PROTECTED IN THE PROJECT PLANS ARE IMPACTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY REPLACEMENTS. REPLACEMENT VEGETATION MUST BE APPROVED BY THE MONROE COUNTY PROJECT MANAGER OR HIS DESIGNEE. THE CONTRACTOR SHALL WARRANT THE ESTABLISHMENT AND SURVIVAL OF THE REPLACEMENT MATERIAL FOR A PERIOD OF AT LEAST ONE YEAR FOLLOWING ITS INSTALLATION.

WHERE PROJECT CONSTRUCTION REQUIRES CLEARING OR TRIMMING OF EXISTING TREES OR SHRUBS, THE CONTRACTOR SHALL FIRST HAVE A QUALIFIED BIOLOGIST THOROUGHLY INSPECT THE AREA TO BE IMPACTED FOR THE PRESENCE OF LISTED SPECIES AND/OR BIRD NESTS. THIS INSPECTION SHALL BE CONDUCTED NO SOONER THAN ONE WEEK PRIOR TO STARTING THE VEGETATION CLEARING/TRIMMING ACTIVITIES IN A PARTICULAR PORTION OF THE PROJECT. SHOULD PRESENCE OF A LISTED SPECIES OR A BIRD'S NEST BE ENCOUNTERED, THE QUALIFIED BIOLOGIST SHALL MARK THE LOCATION AND IMMEDIATELY NOTIFY THE MONROE COUNTY PROJECT MANAGER (OR MANAGER'S DESIGNEE). NO CLEARING OR TRIMMING OF EXISTING TREES OR SHRUBS SHALL BE CONDUCTED WITHIN FIFTY (50) FEET OF AN IDENTIFIED LISTED SPECIES OR NEST UNTIL THE MONROE COUNTY PROJECT MANAGER (OR MANAGER'S DESIGNEE) NOTIFIES THE CONTRACTOR THAT WORK CAN PROCEED IN THIS BUFFER AREA.

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**LEGEND**

	RIGHT OF WAY
	PROPERTY LINE
	SILT FENCE
	PROP. CATCH BASIN
	PROP. MANHOLE
	MILLING & RESURFACING
	MILLING, RESURFACING & OVERBUILD
	RECONSTRUCTION
	BAHIA
	NO 57 STONE
	PALM TREE
	TREE
	ORNAMENTAL TREE
	FIRE HYDRANT
	WATER VALVE
	VALVE
	SANITARY MANHOLE
	SANITARY VALVE
	UTILITY POLE
	MAILBOX
	SIGN
	SPOT ELEV./RIM ELEV.
	HIGH POINT ELEV.
	RUNOFF DIRECTION OF FLOW
	RUNOFF DIRECTION OF FLOW AT EOP

**ABBREVIATIONS**

ABND	ABANDONED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL
AVE	AVENUE
BL/℄	BASELINE
CB	CATCH BASIN
CL/℄	CENTERLINE
E	EASTING
EL./ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EOR	ENGINEER OF RECORD
EXIST	EXISTING
FT	FEET
HP	HIGH POINT
HORIZ	HORIZONTAL
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING-NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NTS	NOT TO SCALE
OE	OVERHEAD ELECTRICAL
PC	POINT OF CURVATURE
PGL	PROFILE GRADE LINE
PGP	PROFILE GRADE POINT
PI	POINT OF INTERSECTION
PROP	PROPOSED
PT	POINT
RAD/R	RADIUS
RT	RIGHT
R/W	RIGHT OF WAY
SAN/SS/S	SANITARY SEWER
SD	STORM DRAINAGE
STA	STATION
STD	STANDARD
T.B.M.	TEMPORARY BENCH MARK
TOP	TOP OF PIPE
TYP	TYPICAL
VERT	VERTICAL
WM	WATERMAIN

**APPLICABLE CODES AND STANDARD SPECIFICATIONS:**

1. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS FY 2019-20.
2. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS, 2019.
3. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS (FLORIDA GREENBOOK), 2018.
4. MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009.
5. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
6. SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD).
7. U.S. ARMY CORPS OF ENGINEERS (USACE).

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS; THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY

THE PROJECT CONSIST OF MILLING, RESURFACING, OVERBUILD & RECONSTRUCTION OF THE STREETS DETAILED BELOW IN MONROE COUNTY, FLORIDA. THIS INVOLVES SWALE REGRADING AND UNDERGROUND STORMDRAIN SYSTEMS FOR STORMWATER MANAGEMENT.

1. KEY LARGO  
FATHER TONY WAY  
AVE J

1.A. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

1.A.1. PERMANENT OR TEMPORARY EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICABLE TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICE. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHALL BE THE PLACEMENT OF TEMPORARY EROSION & SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT, THE INITIAL WORK AREA, & OTHER AFFECTED AREAS TO PREVENT STORM WATER POLLUTION. CLOSE ATTENTION SHALL BE PAID TO THE MANGROVES AND WETLAND AREAS NEARBY THE AVE J.

1.A.2. CONFORMANCE WITH SWPPP DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES TO PROTECT ADJACENT PROPERTIES, FEATURES & NATURAL ENVIRONMENT FROM THE POSSIBLE DAMAGE IMPACT THAT MAY ARISE AS A RESULT OF THE CONSTRUCTION.

1.A.3. CONTRACTOR SHALL INSTALL PERIMETER POLLUTION PREVENTION CONTROLS AFTER CLEARING & GRUBBING BUT BEFORE BEGINNING OTHER CONSTRUCTION PHASES. CONTRACTOR SHALL REMOVE PERIMETER CONTROLS ONLY AFTER ALL AREAS HAVE BEEN STABILIZED.

1.A.4. MODIFICATIONS OR CHANGES TO THE INFORMATION DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN MUST BE SUBMITTED THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) FOR APPROVAL.

1.A.5. IF ADDITIONAL EROSION & SEDIMENT CONTROL BMP'S ARE REQUESTED BY ANY REGULATORY AGENCY, THE CONTRACTOR SHALL PROMPTLY IMPLEMENT SAID MEASURES AFTER APPROVAL OF EOR/JURISDICTIONS.

1.A.6. CONTRACTOR SHALL MEET THE MAINTENANCE REQUIREMENTS AS INDICATED IN SECTION 2.0 CONTROLS.

1.A. AREA ESTIMATES

TOTAL SITE AREA: 1.91 ACRES  
TOTAL AREA TO BE DISTURBED: 1.91 ACRES

1.B. RUNOFF DATA:

RUNOFF COEFFICIENTS:

THE WEIGHTED RUN-OFF COEFFICIENT IS 0.55.

1.C. SOILS DATA:

LIGHT BROWN LIMESTONE WITH FINE SAND:  
FROM 1.3-2.5FT TO 14FT (MAX DEPTH OF THE BORINGS)

1.D. RECEIVING WATER BODIES INFORMATION:

THERE ARE NO RECEIVING WATER BODIES AFFECTED DIRECTLY UNDER THIS PROJECT.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE ARE TO REMAIN AS EXISTING OR AS SHOWN IN PLANS. ANY INCIDENTAL REGRADING WILL HAVE POSITIVE DRAINAGE INTO THE PROPOSED STORM DRAIN SYSTEMS.
- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE CONSTRUCTION PLANS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- AREAS NOT TO BE DISTURBED; ROADSIDE AREAS WHERE MILLING AND RESURFACING OCCUR WILL NOT BE DISTURBED UNLESS PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND.
- LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE CONSTRUCTION PLANS. THE CONTRACTOR'S EROSION CONTROL SHEETS MAY PROVIDE EXCEPTIONS FOR THE CONTROLS ASSOCIATED WITH CONSTRUCTION AREAS.
- LOCATIONS OF PERMANENT CONTROLS; THESE ARE SHOWN ON THE CONSTRUCTION PLANS.
- SURFACE WATERS: THERE ARE NO SURFACE WATERS WITHIN THE ROADWAY WORK PROPOSED SINCE THE WORK IS LIMITED TO WITHIN THE EXISTING ROADWAY RIGHT-OF-WAYS.
- DISCHARGE POINTS TO SURFACE WATERS: REFER TO ITEM I.E.

2.0 CONTROLS

2.A POLLUTION PREVENTION CONTROLS.

THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF EFFECTIVE POLLUTION PREVENTION MEASURES TO ACCOMPLISH ALL OF THE FOLLOWING:

2.A.1 MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. TREAT WASH WATERS A TREATMENT SYSTEM SO THAT THEY DO NOT CAUSE OR CONTRIBUTE OR VIOLATIONS OF WATER QUALITY STANDARDS.

2.A.2 MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER.

2.A.3 MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS; AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.

2.A.4 CONTROL WASTES, SUCH AS DISCARDED MATERIALS. CHEMICALS, LITTER, AND SANITARY WASTE. IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS.

2.A.5 LIMIT THE APPLICATION, GENERATION, AND MIGRATION OF TOXIC

SUBSTANCES; AND PROPERLY STORE AND DISPOSE OF TOXIC MATERIALS.

2.B EROSION AND SEDIMENT CONTROLS.

THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF APPROPRIATE EROSION AND SEDIMENT CONTROLS TO ACCOMPLISH ALL OF THE FOLLOWING

2.B.1 CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION.

2.B.2 CONTROL STORMWATER PEAK DISCHARGE RATES AND VOLUME TO AVOID EROSION AT VEGETATED AREAS WITHIN PROJECT LIMITS.

2.B.3 MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING THE CONSTRUCTION ACTIVITY. EROSION AND SEDIMENT CONTROLS. SHALL PROVIDE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF APPROPRIATE EROSION AND SEDIMENT.

2.B.5 MINIMIZE THE DISTURBANCE OF STEEP SLOPES. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. THE DESIGN, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS SHALL ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION; THE NATURE OF THE RESULTING STORMWATER; AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.

2.B.6 MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS ONTO PAVED SURFACES AND THE GENERATION OF DUST. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.

2.B.7 WHERE FEASIBLE, DIRECT STORMWATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL TO PROVIDE AND MAINTAIN NATURAL BUFFERS ADJACENT TO SURFACE WATERS OF THE STATE.

2.B.8 MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.

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2.C SEDIMENT BASINS

2.C.1 AT A MINIMUM, SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.

2.D.MAINTENANCE REQUIREMENTS:

2.D.1 THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES THAT WILL BE FOLLOWED TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROLS, STORMWATER MANAGEMENT PRACTICES, AND OTHER PROTECTIVE MEASURES AND BMPS SO THEY WILL REMAIN IN GOOD AND EFFECTIVE OPERATING CONDITION.

2.D.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE REPAIRS OF EROSION & SEDIMENT CONTROL/SWPPP DEVICES PER THE FDOT STANDARD SPECIFICATION FOR ROAD & BRIDGE CONSTRUCTION (CURRENT EDITION). THE MAINTENANCE OF THESE DEVICES SHALL OCCUR UNTIL THE COUNTY'S REPRESENTATIVE ESTABLISHES AREAS AS PERMANENTLY STABILIZED. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AFTER COMPLETION OF THE PROJECT.

2.D.3 EROSION & SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED BY THE CONTRACTOR TO PERFORM THE INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.

2.D.4 THE CONTRACTOR SHALL MONITOR ALL POLLUTION CONTROL DEVICES TO ENSURE SUFFICIENT CONVEYANCE OF STORMWATER RUNOFF & TO ELIMINATE SOIL EROSION DURING CONSTRUCTION.

2.D.5 CONTRACTOR SHALL COVER LOADED TRUCKS WITH TARPULAINS.

2.D.6 CONTRACTOR SHALL REMOVE EXCESS DIRT FROM WORK SITE ON A DAILY BASIS.

2.D.7 BUILT-UP SEDIMENT WILL BE REMOVED FROM THE STAKED SILT FENCE WHEN IT REACHES ONE-THIRD OF THE FENCE BARRIER OR WHENEVER FLOW IS IMPEDED.

2.D.8 AT NO TIME SHOULD SEDIMENTS BE ALLOWED TO ACCUMULATE WITHIN DRAINAGE STRUCTURE & CONVEYANCE PIPELINES. STRUCTURES & PIPELINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

2.D.9 STOCKPILE OF EARTH & OTHER CONSTRUCTION RELATED MATERIAL SHALL BE PROTECTED AGAINST ACCIDENTAL TRANSPORTATION FROM PROJECT SITE BY WIND & WATER FLOW.

2.D.10 ALL STORM DRAINAGE SYSTEMS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT WATER CANNOT GAIN ENTRY INTO THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHER WISE TREATED TO REMOVE SEDIMENTS.

3.0 OTHER CONTROLS

THE FOLLOWING NON-STORMWATER DISCHARGES ARE PROHIBITED:

3.A WASTEWATER FROM WASHOUT OF CONCRETE

3.B WASTEWATER FROM WASHOUT CONCRETE AND CLEANOUTS OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.

3.C FUELS, OILS, OR OTHER POLLUTANTS ASSOCIATED WITH VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.

3.D SOAPS OR SOLVENTS USED IN VEHICLE OR EQUIPMENT WASHING OR CLEANING.

3.E THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, SUCH OCCURRENCES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER AND OWNERS REPRESENTATIVE.

4.0 INSPECTIONS.

AN INSPECTOR QUALIFIED IN ACCORDANCE WITH PART 11.12. OF DEP DOCUMENT EFFECTIVE FEBRUARY 17, 2009, INCORPORATED BY REFERENCE IN PARAGRAPH F.A.C., (PROVIDED BY THE OWNER OR OPERATOR) SHALL PERFORM ALL REQUIRED SITE INSPECTIONS. SITE INSPECTIONS MUST INCLUDE ALL POINTS OF DISCHARGE INTO SURFACE WATERS OR AN MS4; DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED; AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; STRUCTURAL CONTROLS; AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SITE INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. INSPECTIONS SHALL INCLUDE:

4.A DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT MEASURES ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS, INCLUDING RETAINING SEDIMENT ONSITE PURSUANT TO RULE 62-40.432, F.A.C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

4.B BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPS, PRACTICES, OR MEASURES IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF NEEDED, POLLUTION PREVENTION CONTROLS, BMPS, AND MEASURES IDENTIFIED IN THE PLAN SHALL BE REVISED AS NECESSARY TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPS, PRACTICES, OR MEASURES IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN. SUCH REVISIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

4.C A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION; NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION; THE DATE(S) OF THE INSPECTION; RAINFALL DATA; MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN; AND ACTIONS TAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PERMIT, SHALL BE MADE AND RETAINED AS PART OF THE STORMWATER POLLUTION PREVENTION PLAN. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

5.0 WETLANDS.

5.A CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE ON NEARBY

WETLANDS FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES.

5.B CONTRACTOR SHALL STABILIZE NEWLY CONSTRUCTED SLOPES ON ADJACENT WETLANDS TO PREVENT EROSION AND TURBIDITY, AND ALSO STABILIZE DISTURBED AREAS IMMEDIATELY AFTER FINAL GRADE HAS BEEN ATTAINED OR DURING INTERIM PERIODS OF INACTIVITY RESULTING FROM CONSTRUCTION DELAYS.

6.0 PERMITS

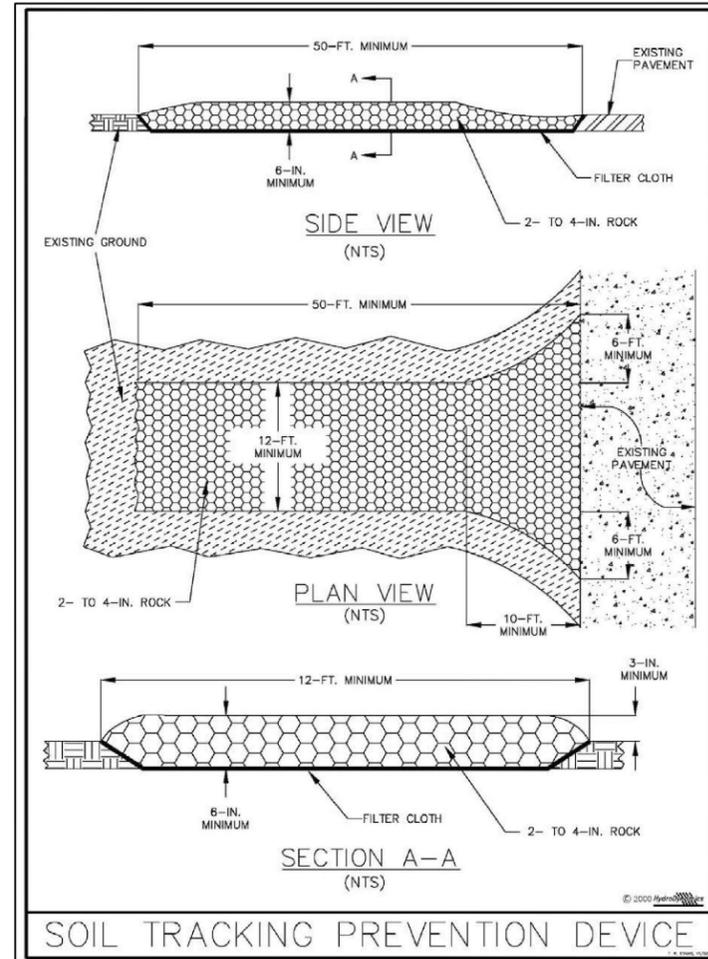
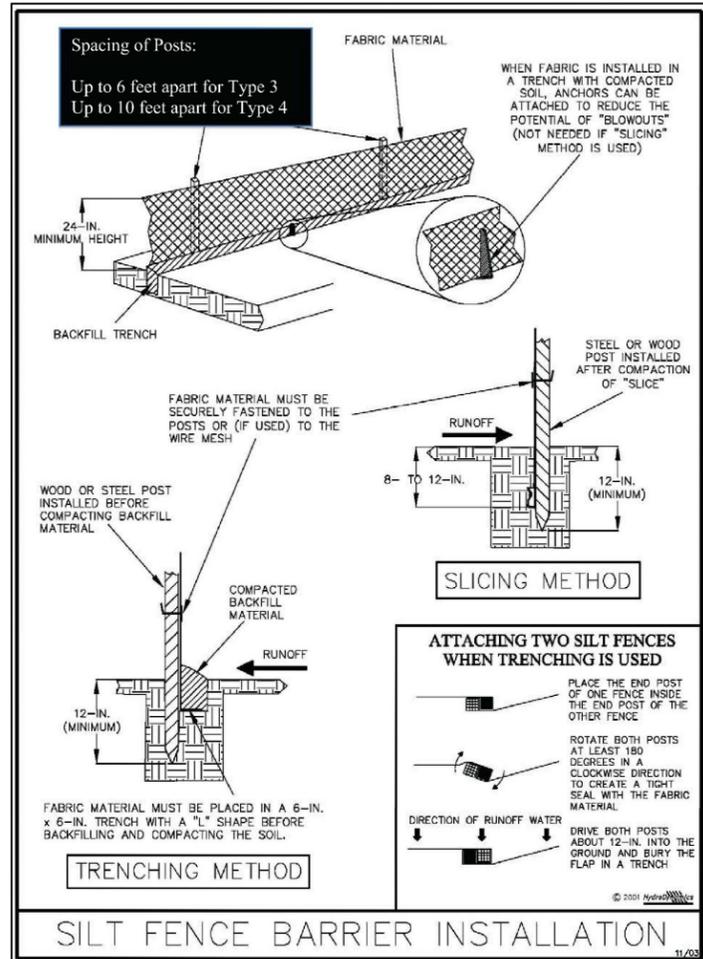
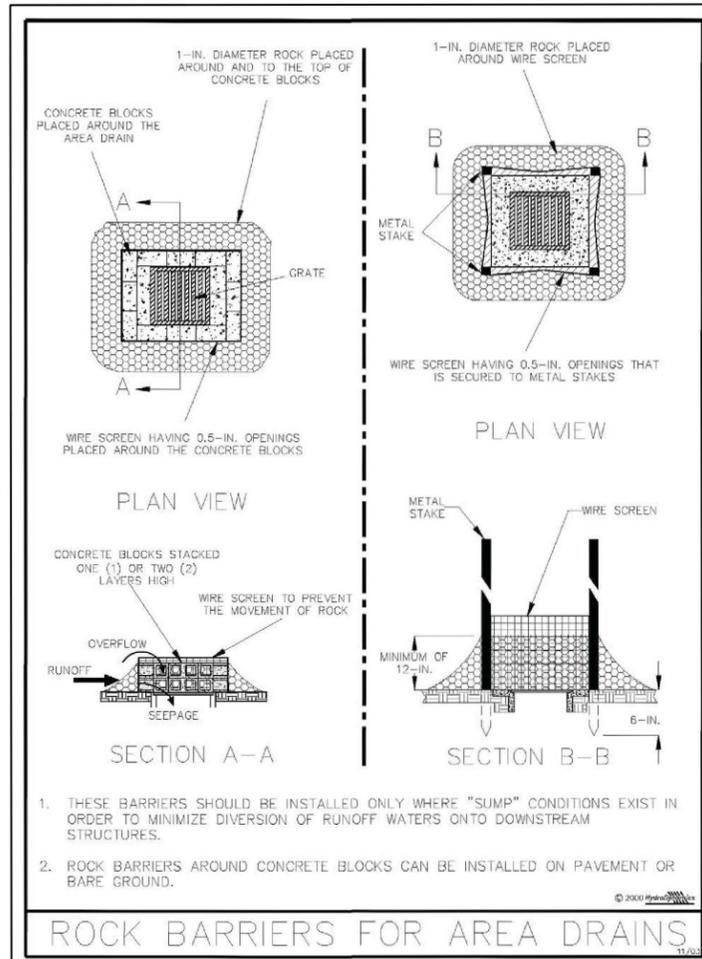
CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN NPDES STORMWATER PERMIT COVERAGE BY SUBMITTING THE FOLLOWING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).

6.A PREPARE AND SUBMIT A CGP NOTICE OF INTENT (NOI) (DEP DEVELOP AND SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IN PART, THE PLAN MUST INCLUDE THE FOLLOWING:  
A SITE EVALUATION OF HOW AND WHERE POLLUTANTS MAY BE MOBILIZED BY STORMWATER.

- A SITE PLAN FOR MANAGING STORMWATER RUNOFF.
- IDENTIFICATION OF APPROPRIATE EROSION AND SEDIMENT
- CONTROLS AND STORMWATER BEST MANAGEMENT PRACTICES (BMPS) TO REDUCE EROSION, SEDIMENTATION, AND STORMWATER POLLUTION.
- A MAINTENANCE AND INSPECTION SCHEDULE.
- A RECORDKEEPING PROCESS.
- IDENTIFICATION OF STORMWATER EXIT AREAS.

6.B PREPARE AND SUBMIT A NOTICE OF TERMINATION (NOT) (DEP FORM 62-621.300(6) IN ORDER TO DISCONTINUE PERMIT COVERAGE. ALSO AN NOT MAY BE SUBMITTED ONLY WHEN THE SITE MEETS THE ELIGIBILITY REQUIREMENTS FOR TERMINATION SPECIFIED IN THE CGP.

REVISIONS				ANDRES CARDONA, P.E. P.E. LICENSE NUMBER 63917 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY) MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					SW-2B



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
P.E. LICENSE NUMBER 63917  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
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CERTIFICATE OF AUTHORIZATION 01462

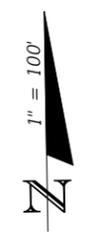
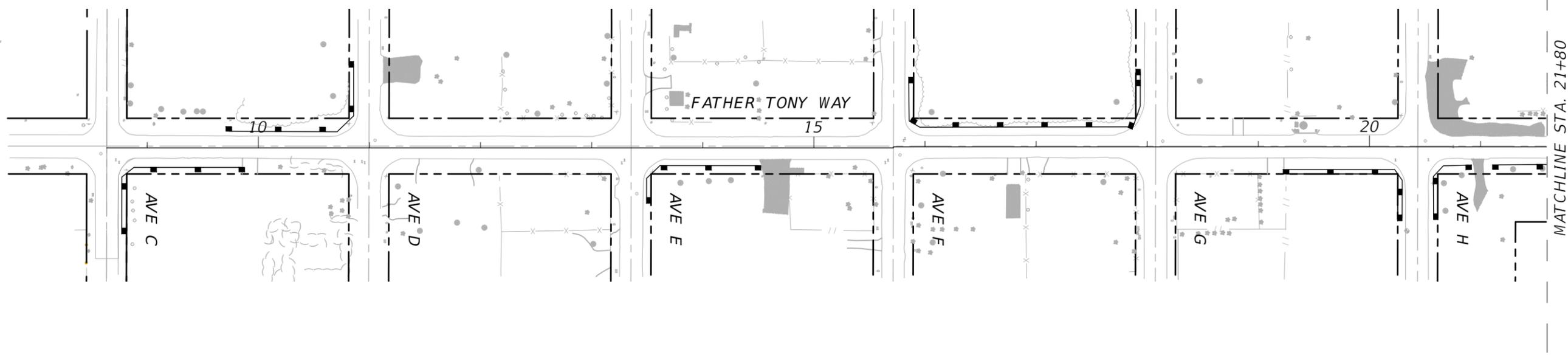
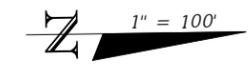


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO.  
SW-3B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
 P.E. LICENSE NUMBER 63917  
 WSP USA, 7650 CORPORATE CENTER DRIVE,  
 SUITE 300, MIAMI, FLORIDA 33126  
 CERTIFICATE OF AUTHORIZATION 01462

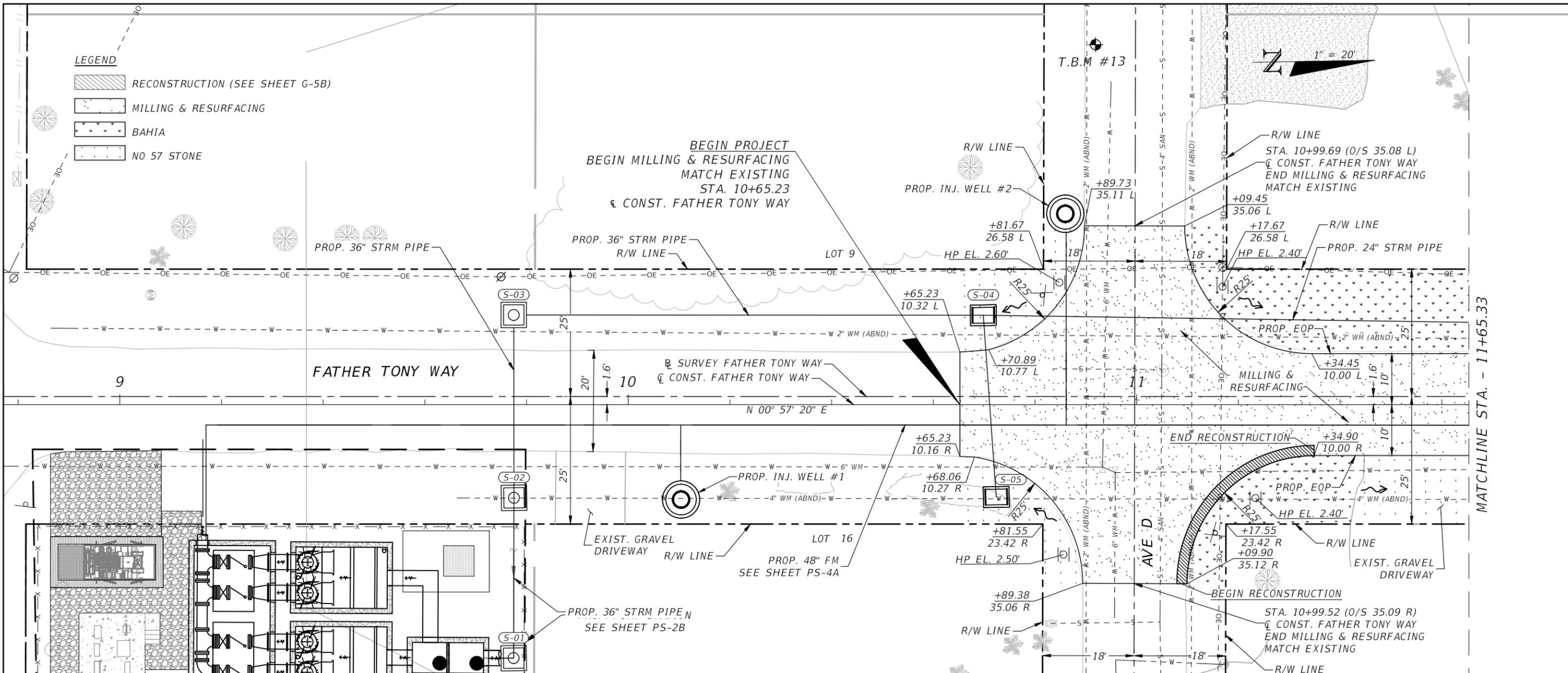


**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

**STORMWATER POLLUTION PREVENTION PLAN**

SHEET NO.  
 SW-4B

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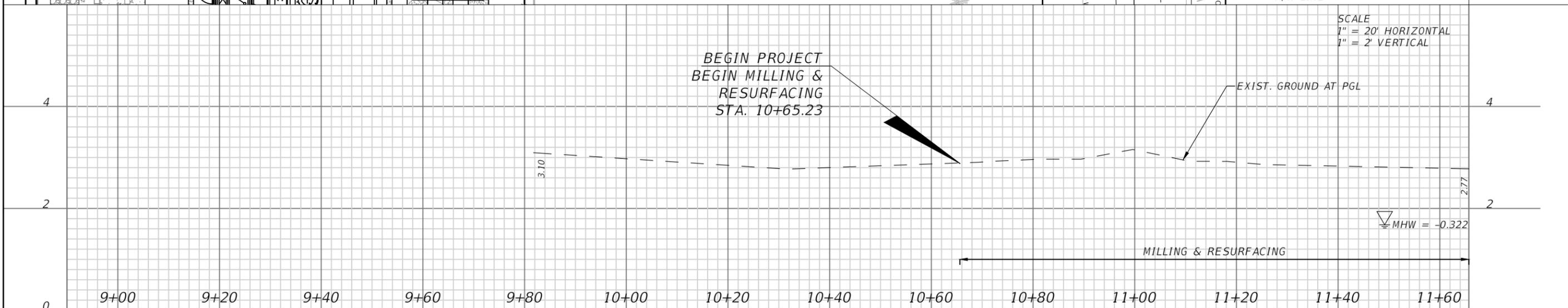
**LEGEND**

	RECONSTRUCTION (SEE SHEET G-5B)
	MILLING & RESURFACING
	BAHIA
	NO 57 STONE



MATCHLINE STA. - 11+65.33

SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
P.E. LICENSE NUMBER 63917  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462

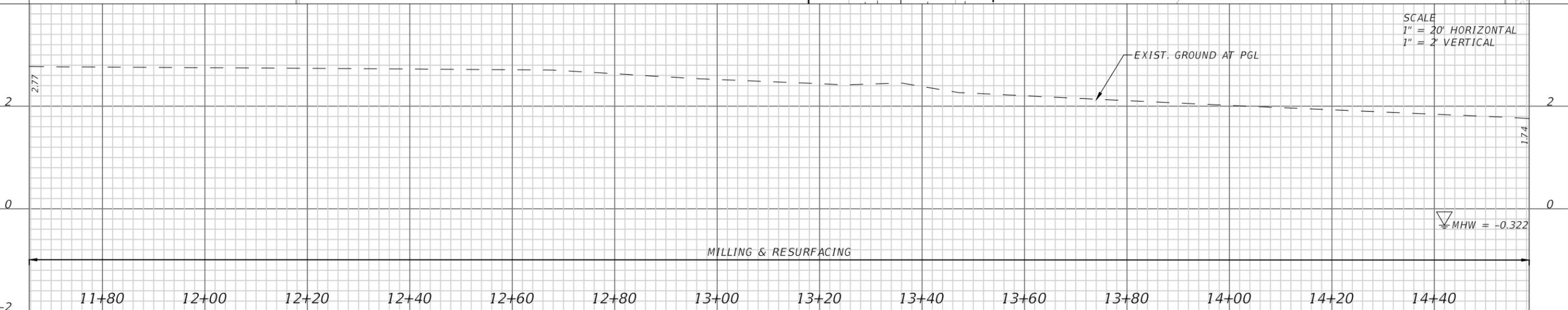
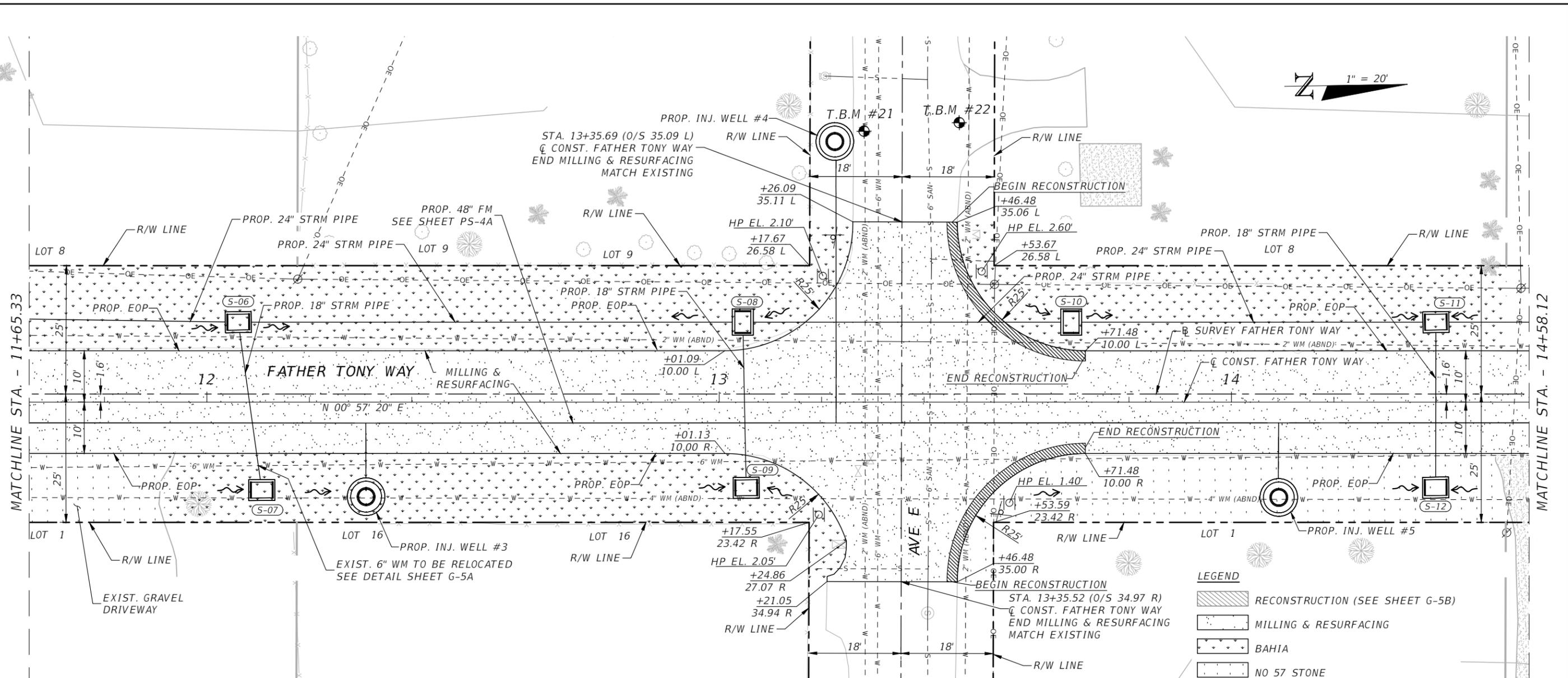
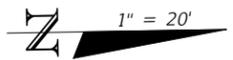


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY PLAN & PROFILE (FATHER TONY WAY)

SHEET NO.  
RD-1B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**LEGEND**

- RECONSTRUCTION (SEE SHEET G-5B)
- MILLING & RESURFACING
- BAHIA
- NO 57 STONE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
 P.E. LICENSE NUMBER 63917  
 WSP USA, 7650 CORPORATE CENTER DRIVE,  
 SUITE 300, MIAMI, FLORIDA 33126  
 CERTIFICATE OF AUTHORIZATION 01462

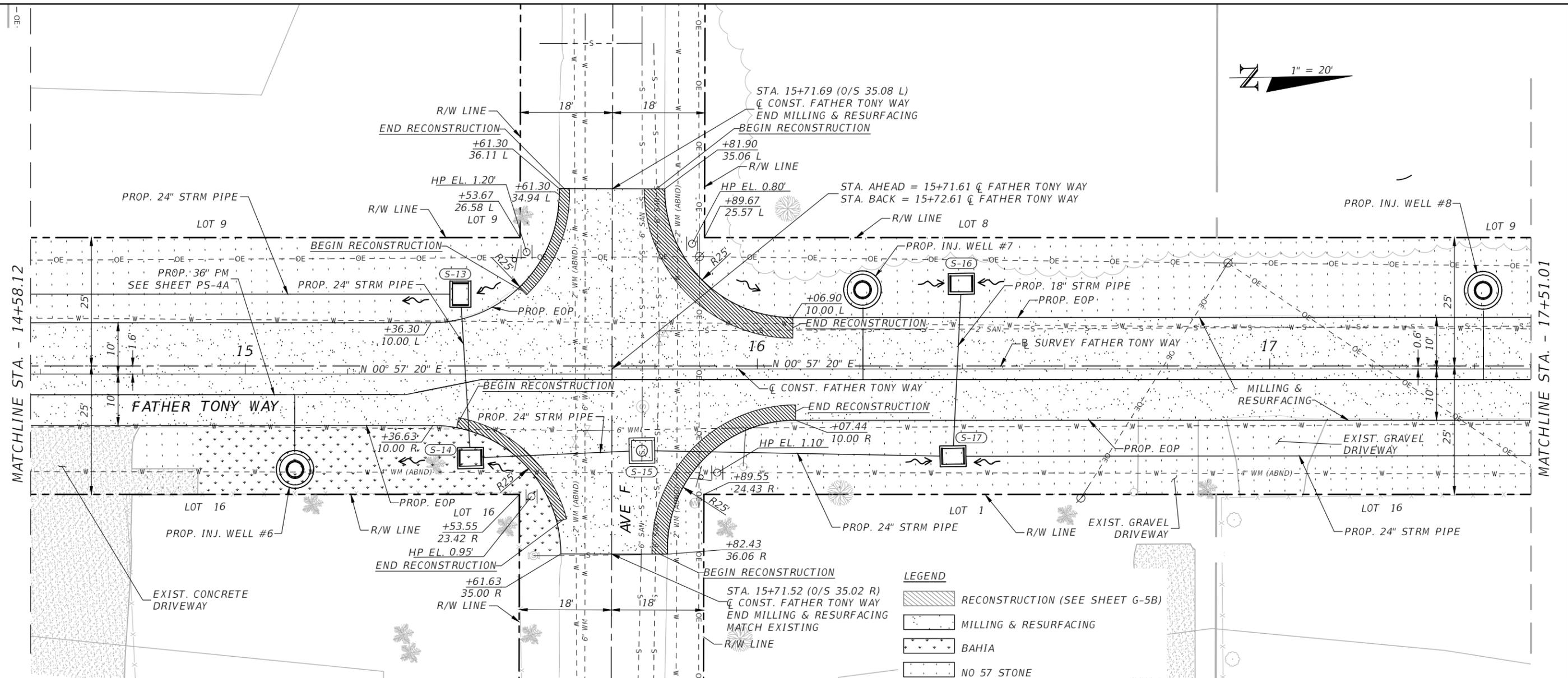


**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY PLAN & PROFILE (FATHER TONY WAY)

SHEET NO.  
 RD-2B

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**LEGEND**

	RECONSTRUCTION (SEE SHEET G-5B)
	MILLING & RESURFACING
	BAHIA
	NO 57 STONE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
 P.E. LICENSE NUMBER 63917  
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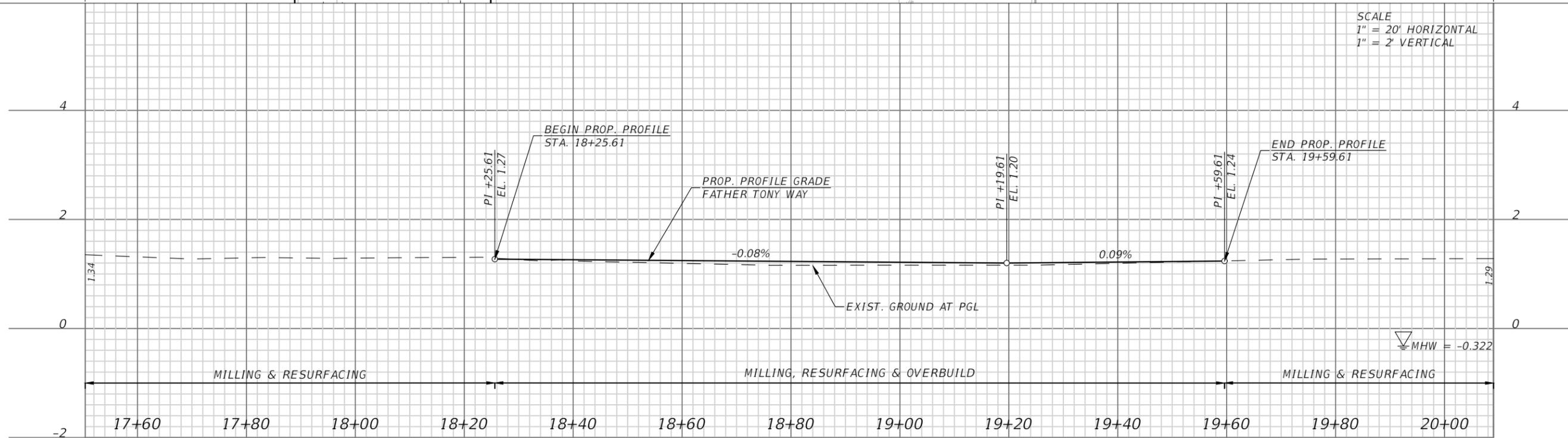
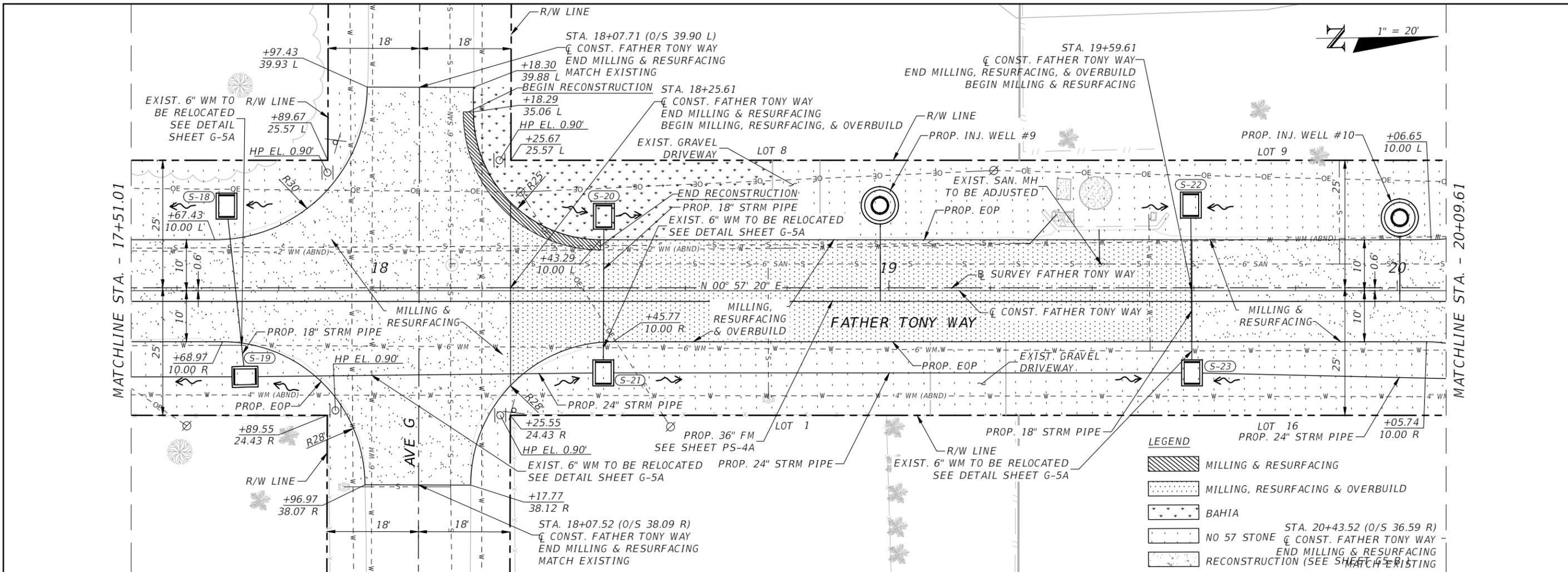


**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY PLAN & PROFILE (FATHER TONY WAY)

SHEET NO.  
 RD-3B

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REVISIONS			
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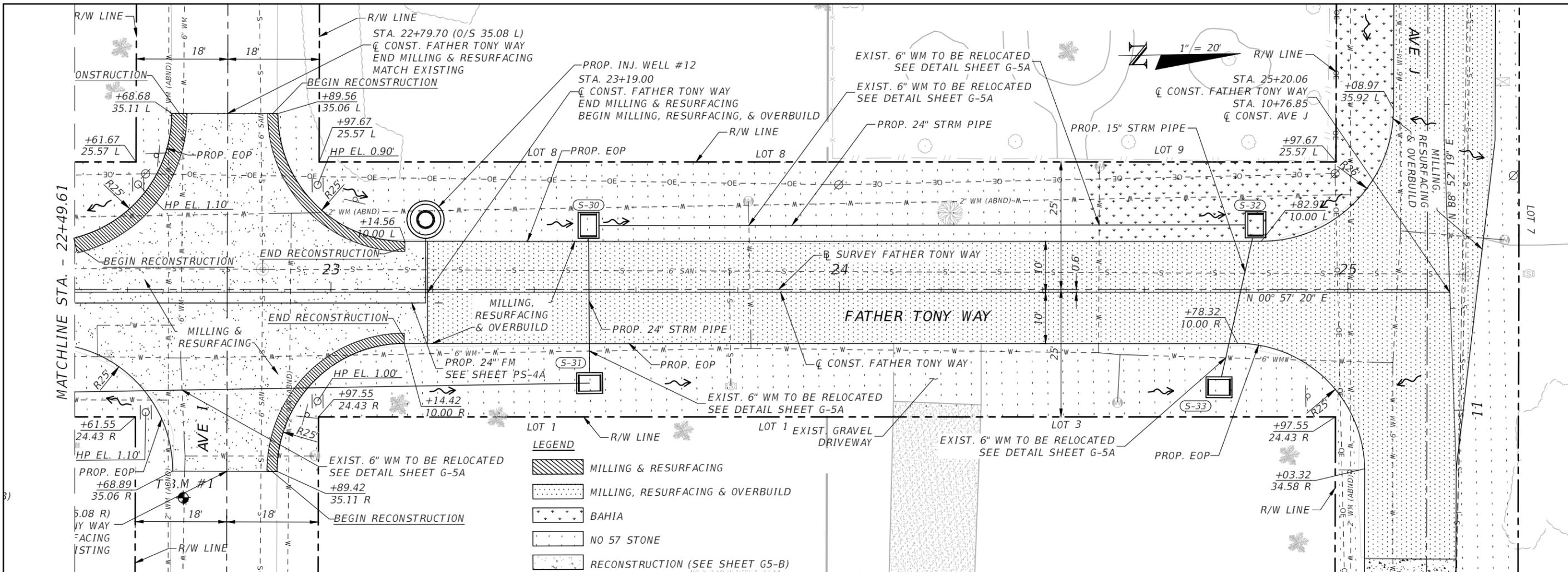


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING  
 ROADWAY PLAN & PROFILE (FATHER TONY WAY)

SHEET NO.  
 RD-4B

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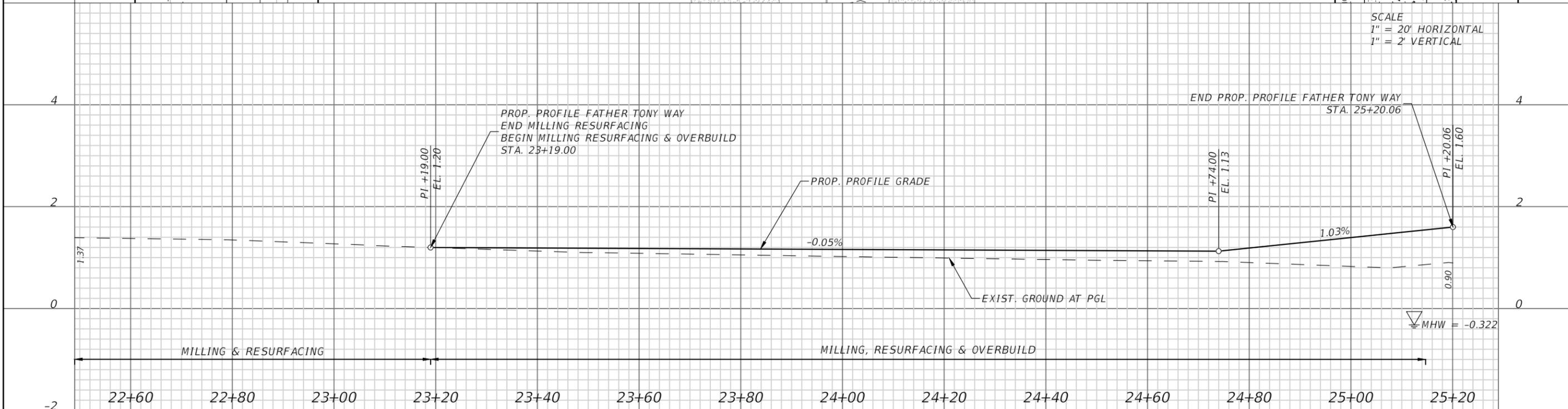


**LEGEND**

	MILLING & RESURFACING
	MILLING, RESURFACING & OVERBUILD
	BAHIA
	NO 57 STONE
	RECONSTRUCTION (SEE SHEET G5-B)



SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ANDRES CARDONA, P.E.  
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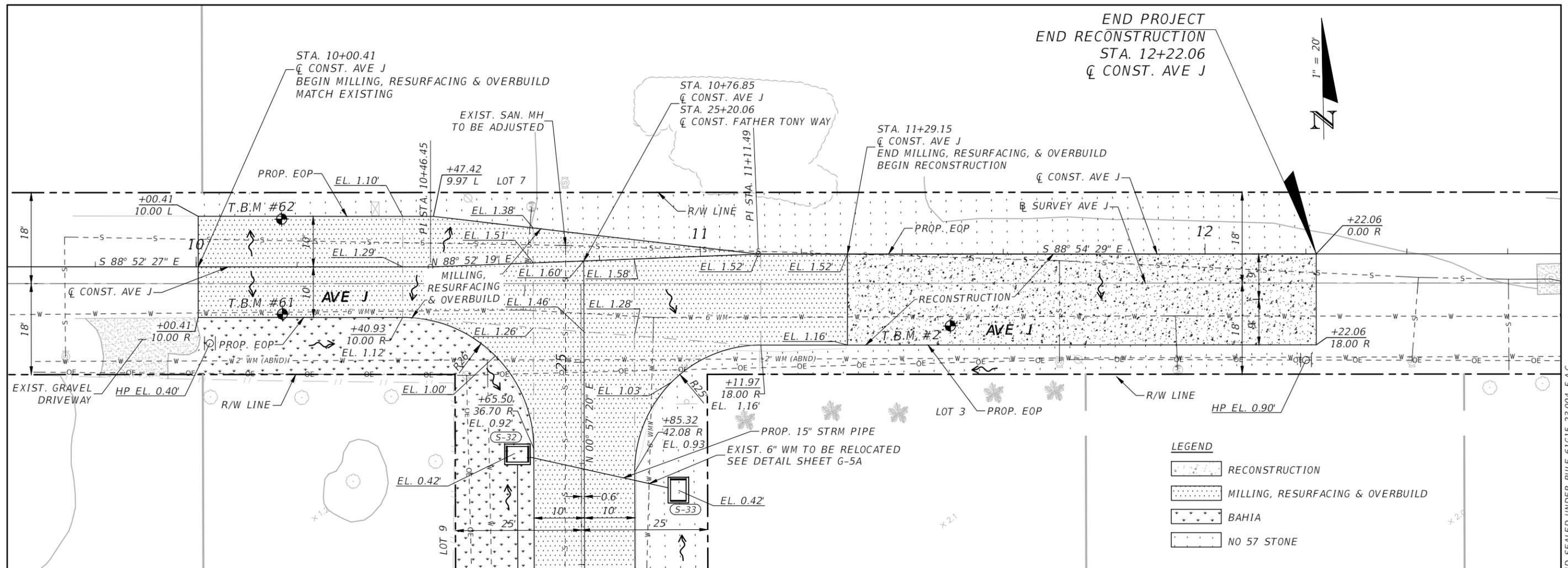


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

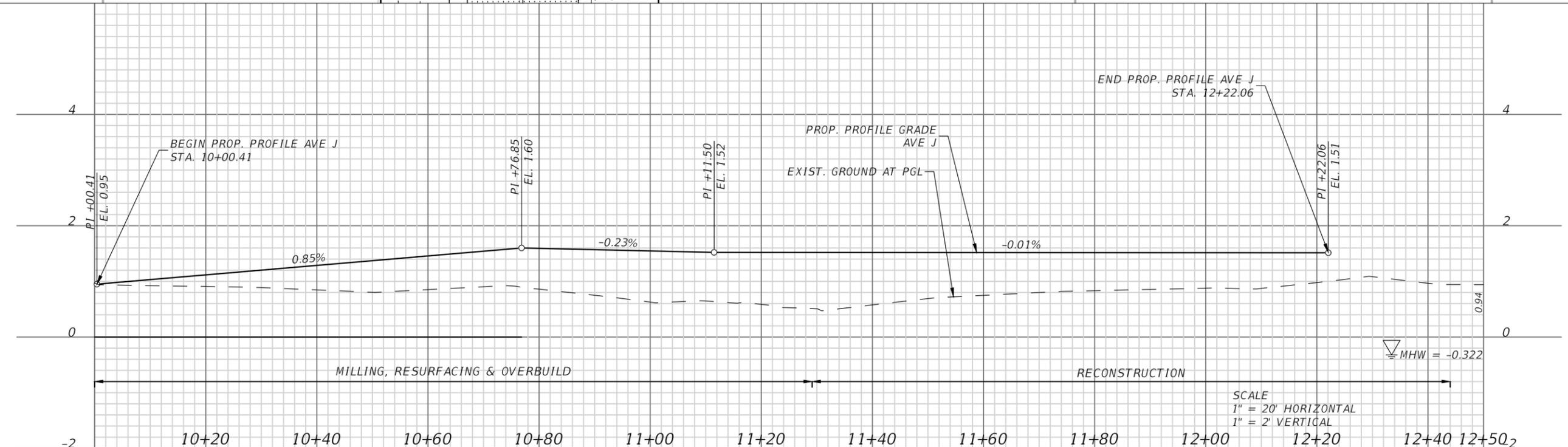
ROADWAY PLAN & PROFILE (FATHER TONY WAY)

SHEET NO.  
 RD-6B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- LEGEND**
- RECONSTRUCTION
  - MILLING, RESURFACING & OVERBUILD
  - BAHIA
  - NO 57 STONE



SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 P.E. LICENSE NUMBER 63917  
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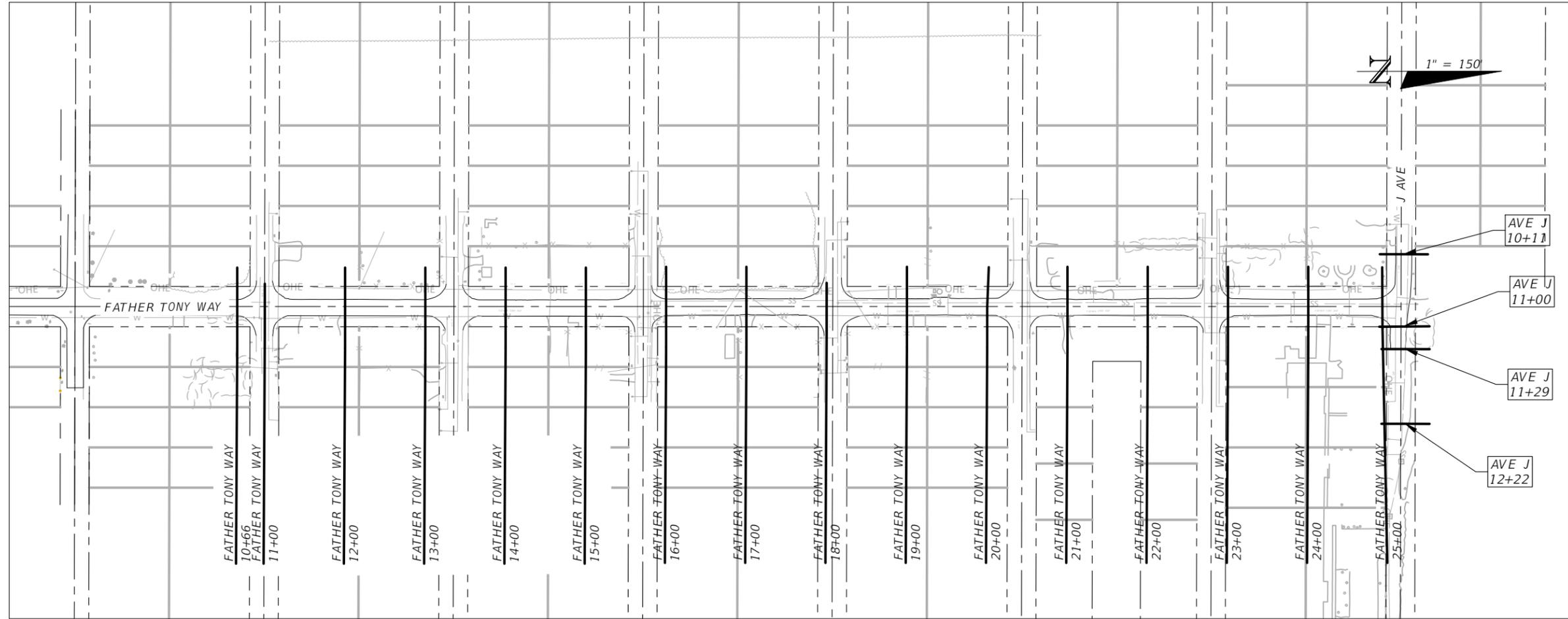


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

SHEET NO.  
 RD-7B

ROADWAY PLAN & PROFILE (AVE J)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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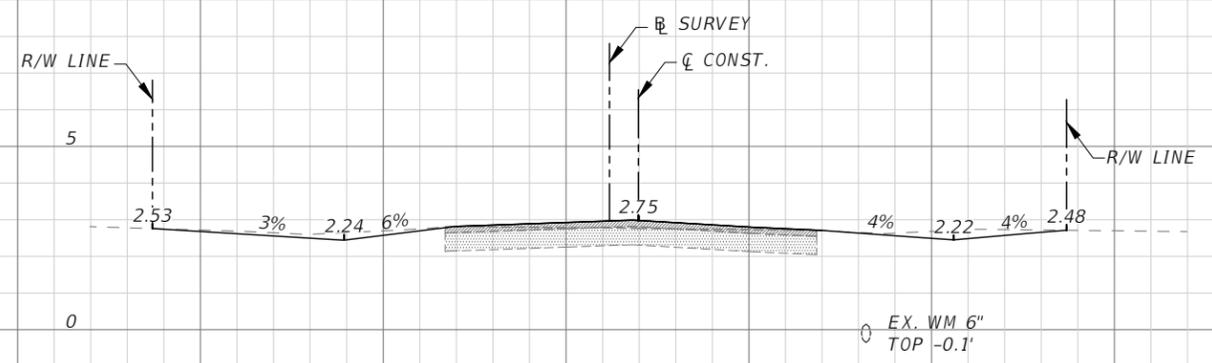
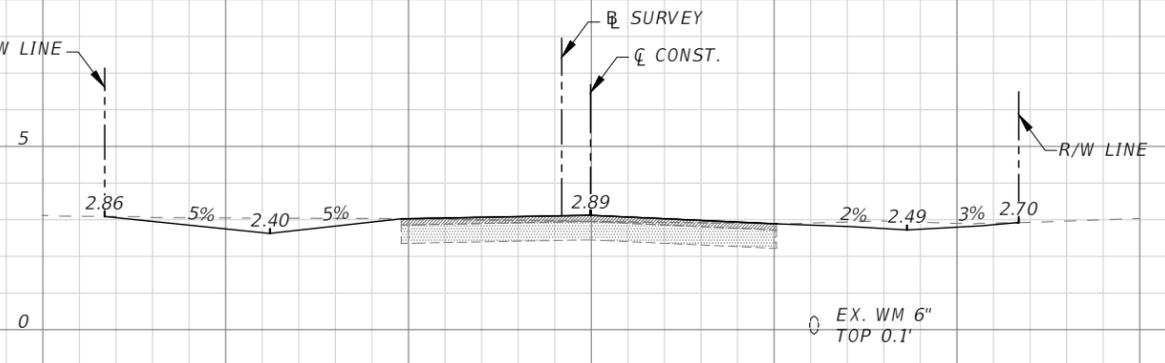
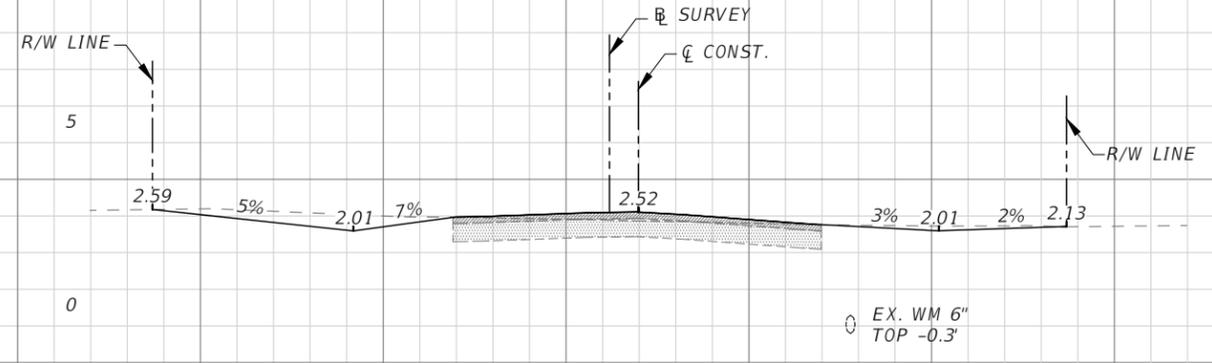
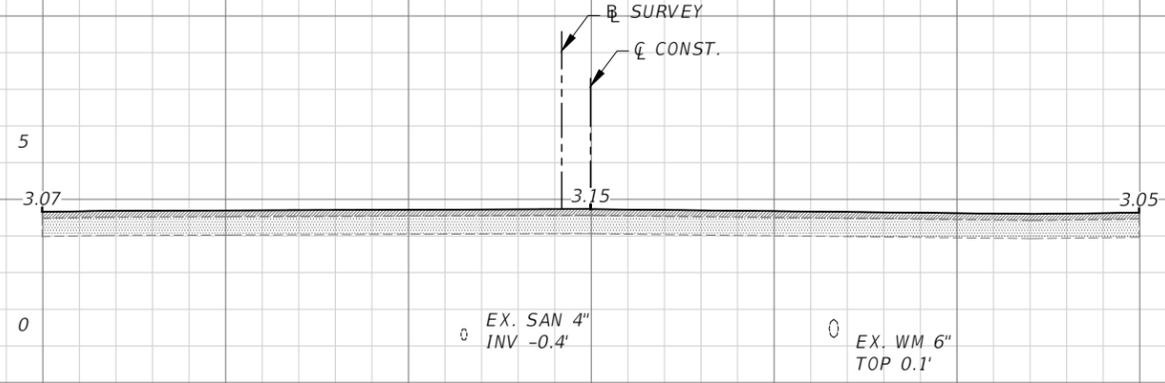


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS LAYOUT

SHEET NO.

RD-8B



PROP. STRM 24"  
INV -6.1'

PROP. 48" FM  
TOP -5.6'

11+00.00

PROP. STRM 24"  
INV -6.1'

PROP. 48" FM  
TOP -5.6'

13+00.00

PROP. STRM 36"  
INV -6.2'

PROP. 48" FM  
TOP -5.6'

10+65.62

PROP. STRM 24"  
INV -6.1'

PROP. 48" FM  
TOP -5.6'

12+00.00

SCALE  
1" = 10' HORIZONTAL  
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

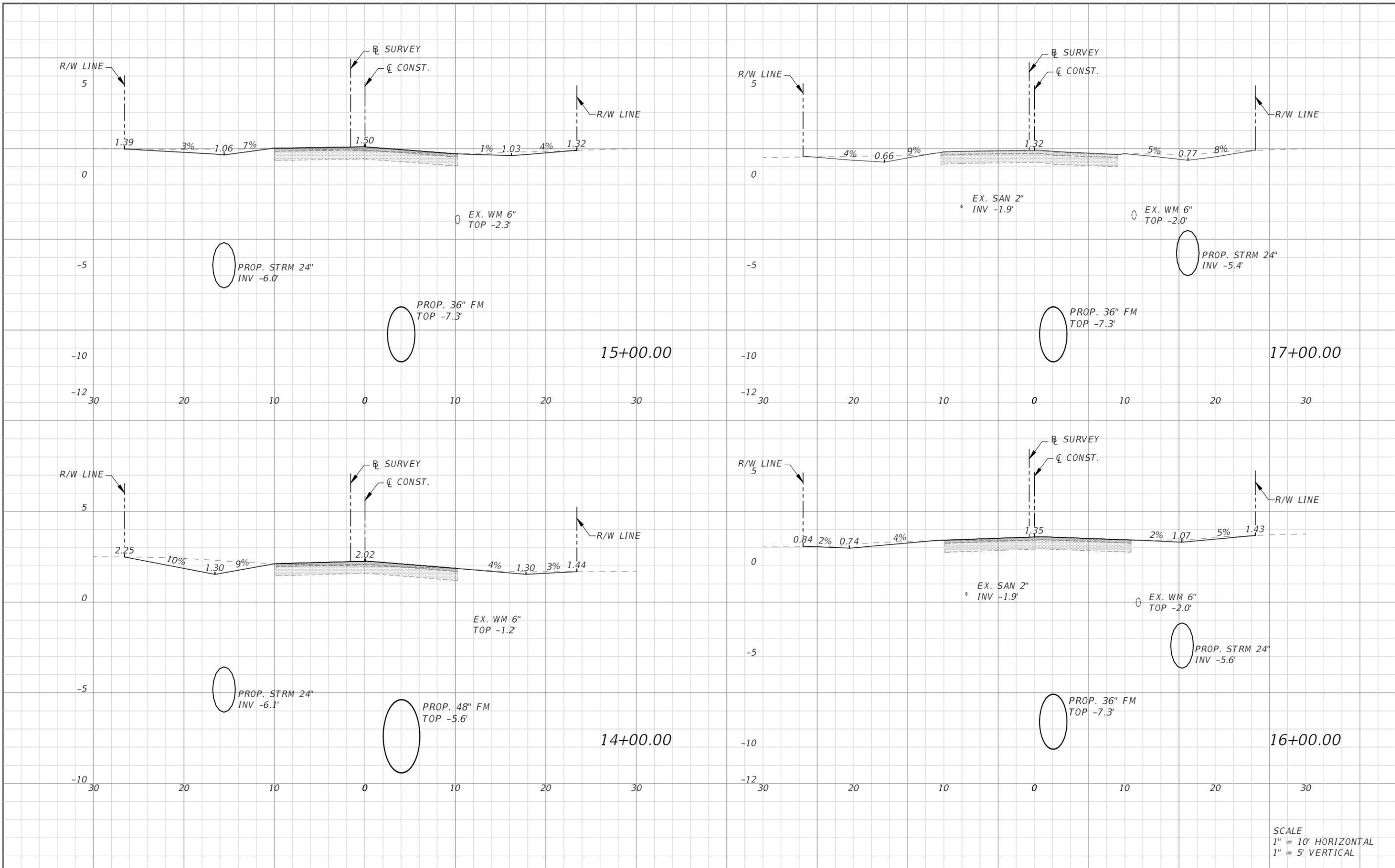
ANDRES CARDONA, P.E.  
P.E. LICENSE NUMBER 63917  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING  
ROADWAY CROSS SECTIONS (FATHER TONY WAY)

SHEET NO.  
RD-9B

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SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS			
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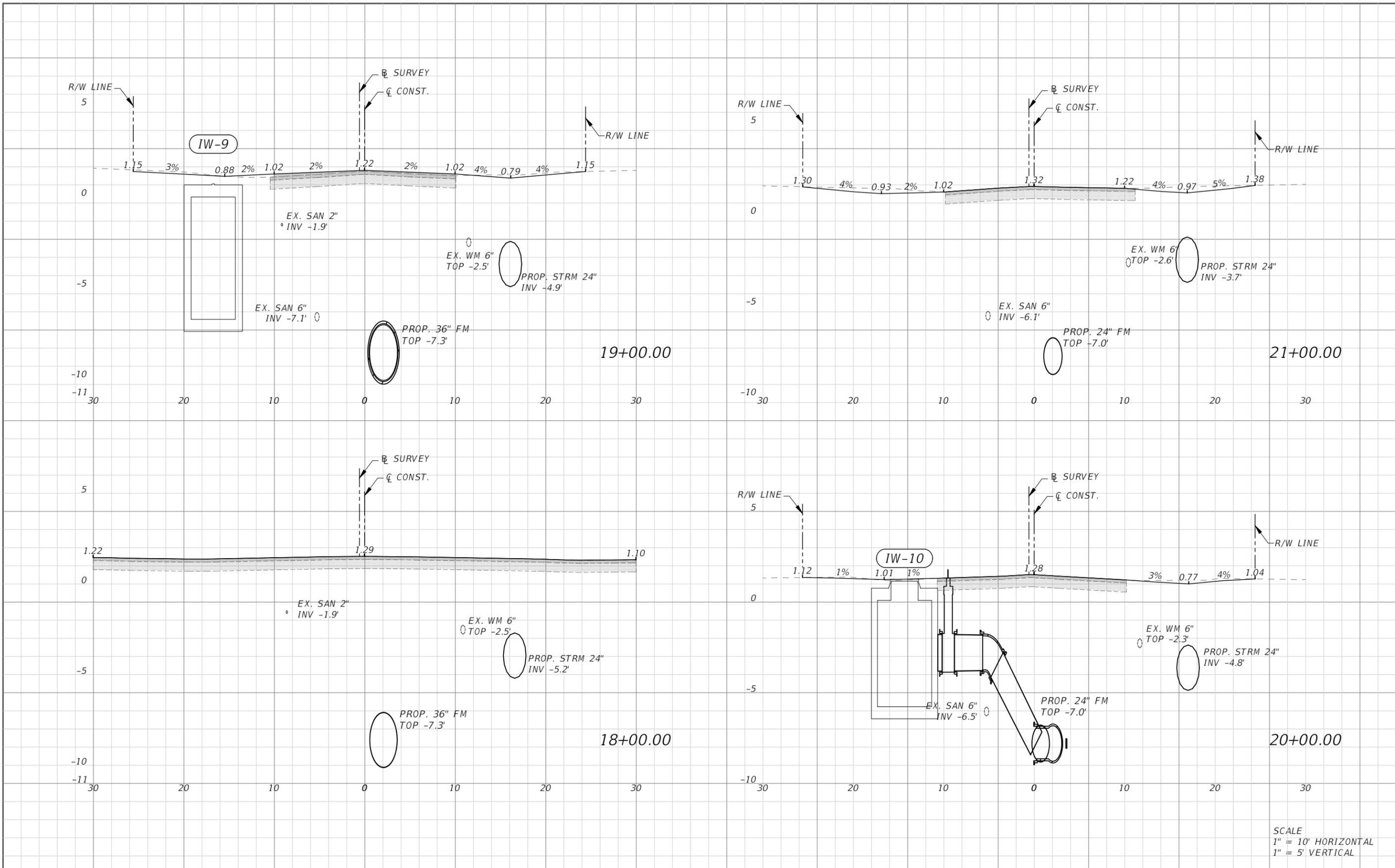


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (FATHER TONY WAY)

SHEET NO.  
 RD-10B

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SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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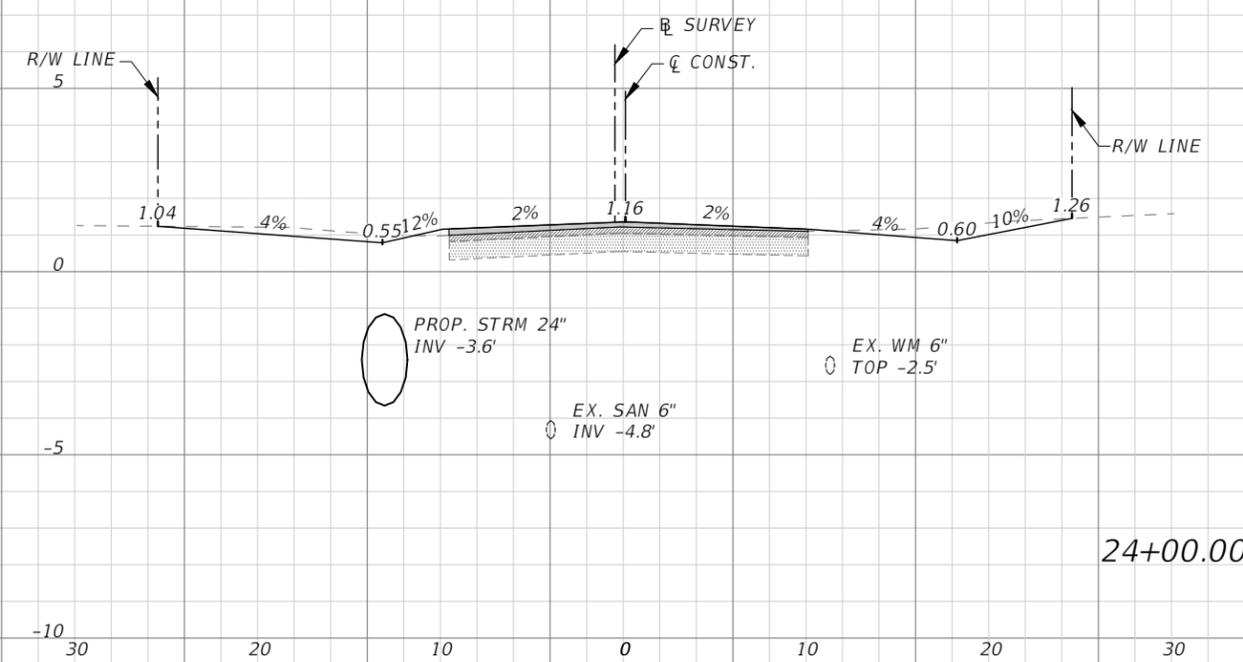
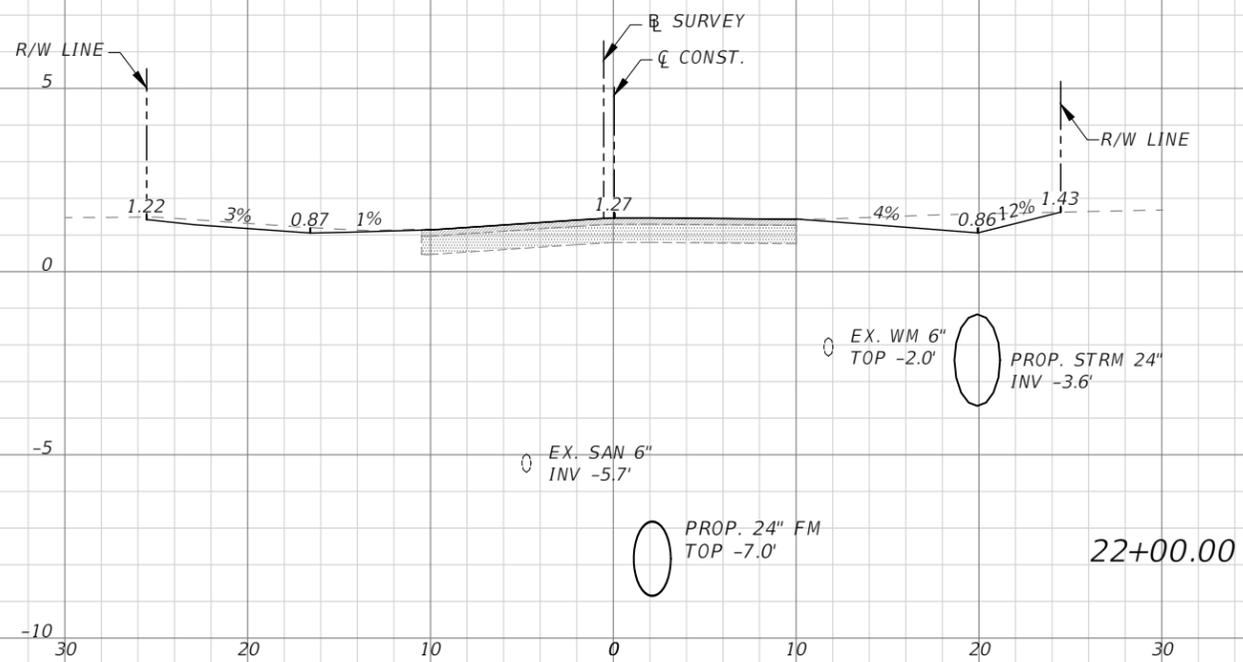
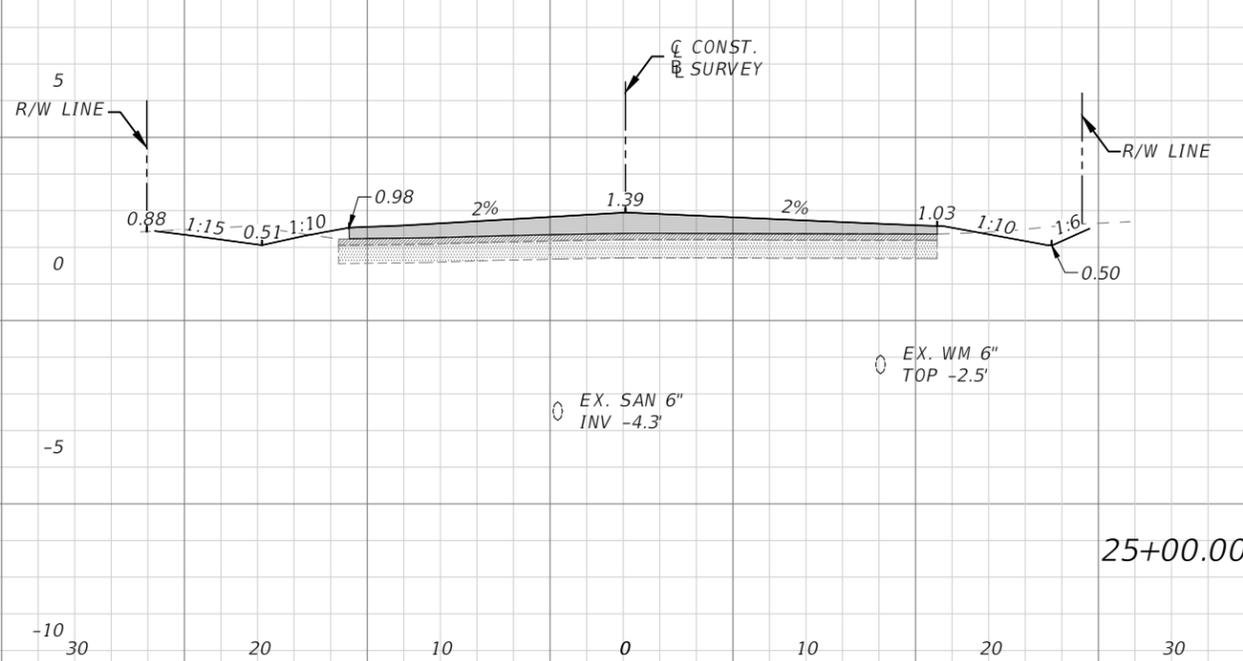
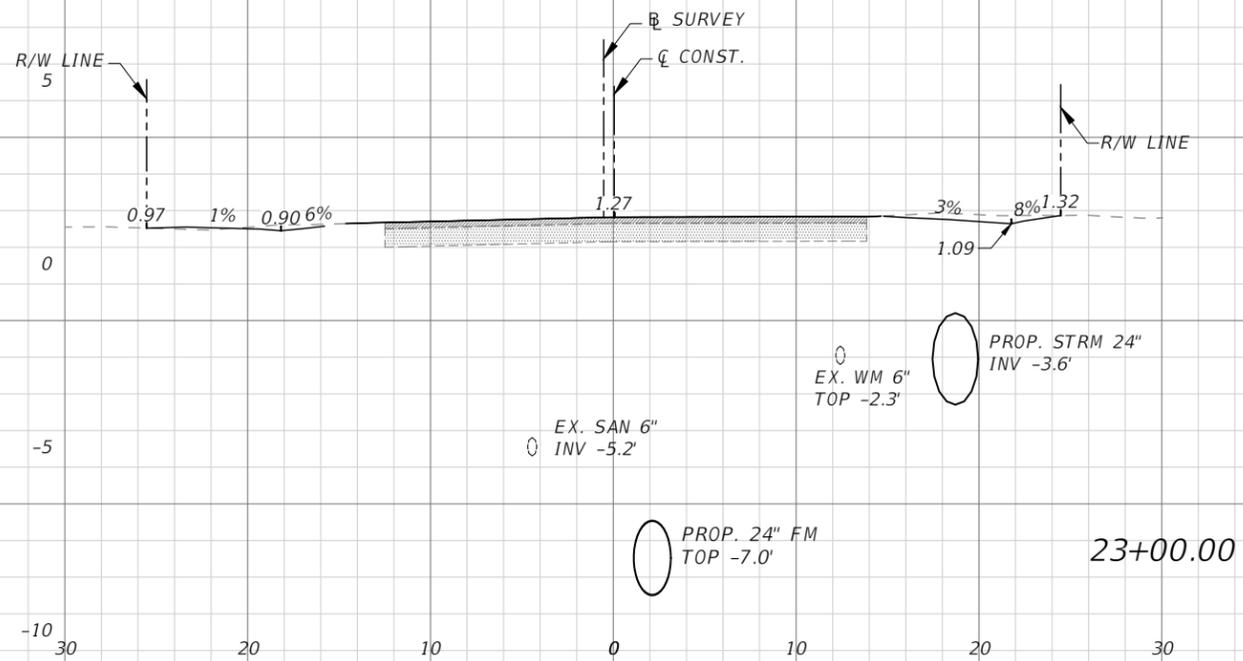


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (FATHER TONY WAY)

SHEET NO.  
 RD-11B

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SCALE  
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 1" = 5' VERTICAL

REVISIONS			
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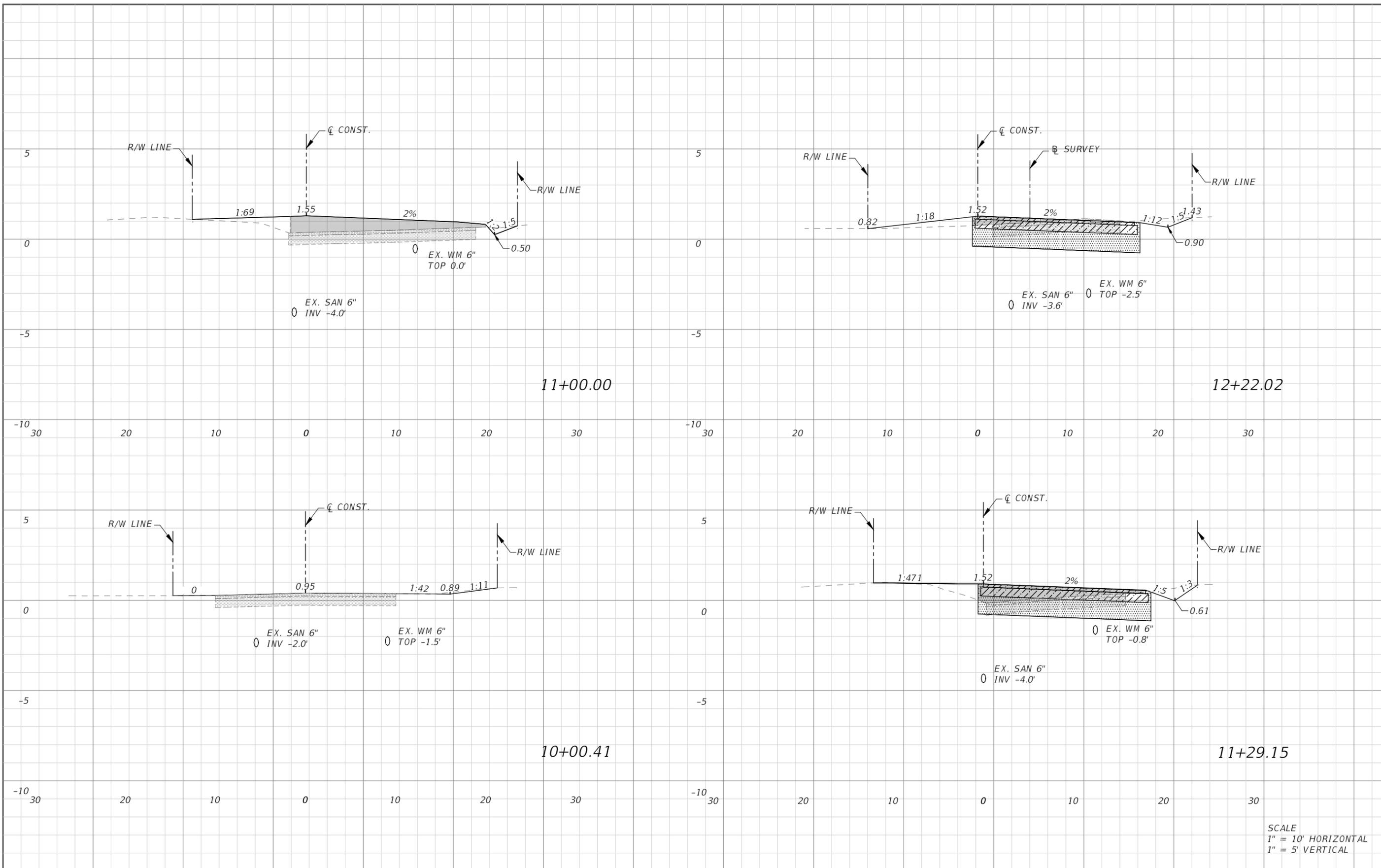


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (FATHER TONY WAY)

SHEET NO.  
 RD-12B

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SCALE  
 1" = 10' HORIZONTAL  
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

ROADWAY CROSS SECTIONS (AVE J)

SHEET NO.  
 RD-13B

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**TEMPORARY TRAFFIC CONTROL (TTC) GENERAL NOTES**

1. ALL TTC SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS 2019-20 INDEX (102-600), MONROE COUNTY ENGINEERING DEPARTMENT STANDARDS AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS (MUTCD) LATEST EDITION.
2. CONTRACTOR SHALL NOTIFY THE MONROE COUNTY PROJECT MANAGER A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE TTC.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE MUTCD, OR AS DIRECTED BY THE OWNER SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.
4. THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH THE NAME OF THE PERSON ON THE CONTRACTOR'S STAFF DESIGNATED TO BE RESPONSIBLE FOR THE IMPLEMENTATION OF ALL PHASES OF TTC, PRIOR TO THE BEGINNING OF CONSTRUCTION.
5. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE REMOVED FOR TTC PURPOSES SHALL BE REPLACED BEFORE COMPLETION OF THE PROJECT.
6. THE REFLECTIVE SHEETING ON SIGNS, CONES OR BARRICADES SCRATCHED OR DAMAGED TO THE POINT THAT REFLECTIVITY IS IMPAIRED SHALL BE REPLACED. DAMAGED, DEFACED OR DIRTY SIGNS, CONES OR BARRICADES SHALL IMMEDIATELY BE REPAIRED, REPLACED OR CLEANED BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING FORMAL TTC INSPECTIONS AND SHALL IMMEDIATELY REPLACE ALL EQUIPMENT AND DEVICES NOT CONFORMING TO FDOT AND COUNTY STANDARDS. THESE INSPECTIONS SHALL TAKE PLACE AT LEAST ONCE A WEEK. SOME OF THESE INSPECTIONS SHALL BE CONDUCTED AT NIGHT. THE COUNTY SHALL BE ADVISED OF THE SCHEDULE OF THE INSPECTIONS AND BE GIVEN THE OPPORTUNITY TO JOIN IN THE INSPECTION.
8. SHORT TERM STOPPING OR PARKING OF A VEHICLE, OR PLACING ANYTHING ELSE NEXT TO THE WORK AREA (FOR EXAMPLE, A STACK OF CONES, PARKED CONSTRUCTION EQUIPMENT/VEHICLES, ETC.) CREATES A CHANNEL EFFECT WHICH CAN ADVERSELY AFFECT TRAFFIC FLOW. THEREFORE, ALL CONSTRUCTION EQUIPMENT SHALL BE PLACED A MINIMUM OF 15 FEET FROM THE TRAVEL LANE WHEN NOT IN USE. OVERNIGHT STORAGE WILL BE IN APPROPRIATELY SIGNED AND BARRICADED AREA AND PLACED OUTSIDE OF CLEAR ZONE.
9. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER EMERGENCY CONDITIONS MAY REQUIRE THE COUNTY TO MODIFY ANY CHANNELIZATION SHOWN IN THESE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS, AS DIRECTED BY THE COUNTY, WITHOUT DELAY.
10. WARNING LIGHTS SHALL BE USED TO MARK BARRICADES AS NEEDED.
11. THE CONTRACTOR SHALL RETURN THE GROUND TO ITS ORIGINAL CONDITION OR PROPOSED FINAL GRADE, WHEN REMOVING ANY TEMPORARY SURFACE.
12. DUST CONTROL MEASURES SHALL BE IMPLEMENTED ON ALL UNPAVED SURFACES UNTIL PAVED.
13. TEMPORARY PAVEMENT SHALL CONSIST OF 1" OF TYPE S-II ASPHALT ON 6" OF LIMEROCK.
14. THE CONTRACTOR HAS THE OPTION TO SUBMIT ALTERNATIVE TTC PLANS FOR APPROVAL BY THE COUNTY. ALTERNATE TTC PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SHALL BE CONSISTENT WITH STANDARD TTC DESIGN PRACTICES. NO CONSTRUCTION ACTIVITY WILL BE ALLOWED UNTIL THE CONTRACTOR'S TTC PLANS ARE APPROVED IN WRITING.

**SIGNING NOTES**

1. THE CONTRACTOR SHALL INSURE THAT PERMANENT SIGNS DO NOT CONFLICT WITH TTC SIGNS. THE CONTRACTOR SHALL COVER ALL SIGNS, BOTH PERMANENT AND TEMPORARY, THAT CONFLICT WITH TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.
2. THE EXISTING POSTED SPEED LIMIT SIGNS SHALL REMAIN THROUGHOUT ALL CONSTRUCTION STAGES, UNLESS OTHERWISE NOTED.
3. ANY EXISTING STREET AND ROAD NAME SIGNS THAT ARE IMPACTED BY CONSTRUCTION ARE TO BE TEMPORARILY RELOCATED AND KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
4. CONTRACTOR MUST MAINTAIN EXISTING SIGNING DURING CONSTRUCTION. IF SIGNS ARE DAMAGED DUE TO HIS ACTIVITY, THE CONTRACTOR IS REQUIRED TO REPLACE THEM PROMPTLY IN ACCORDANCE WITH CURRENT COUNTY OR FDOT STANDARD SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE ADVANCE WARNING SIGNS PER FDOT INDEX 102-603, 102-604, 102-605, AND 102-612 AS APPLICABLE. FIELD LOCATE SIGNING TO AVOID CONFLICTS WITH EXISTING SIGNS AND OTHER ROADSIDE OBSTRUCTIONS.
6. GROOVED PAVEMENT AHEAD SIGN IS REQUIRED 500 FEET IN ADVANCE OF A MILLED OR GROOVED SURFACE OPEN TO TRAFFIC. THE W8-15P PLACARD SHALL BE USED IN CONJUNCTION WITH THE GROOVED PAVEMENT AHEAD SIGN.

**WORK ZONE SPECIAL NOTES**

1. PAVEMENT MUST BE RESTORED TO AN ASPHALT BASE COURSE AS A MINIMUM BEFORE REOPENING ANY WORK ZONE TO TRAFFIC. REFER ALSO TO TTC GENERAL NOTE 13.
2. PROVIDE UNOBSTRUCTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS ADJACENT TO THE WORK ZONE AT ALL TIMES. TEMPORARY USE OF STEEL PLATES TO COVER EXCAVATION IS PERMITTED.
3. FOR WORK WITHIN THE TRAVELED WAY, REFER TO STANDARD PLAN INDEX 102-603 FOR TRAFFIC CONTROL. MAINTAIN A MINIMUM OF ONE 9-FOOT LANE DURING WORKING HOURS ALONG THE WORK ZONE.
4. FOR WORK WITHIN AND NEAR INTERSECTIONS, REFER TO STANDARD PLAN INDEX 102-604 AND 102-605. ALL INTERSECTION MOVEMENTS SHALL BE PROVIDED AT ALL TIMES.
5. FOR WORK ON THE SHOULDER AND ROADSIDE, REFER TO STANDARD PLAN INDEX 102-612.
6. SHORT DURATION INTERMITTENT ROADWAY CLOSURES TO INSTALL DRAINAGE CROSSINGS SHALL BE PERMITTED. CLOSURE TIME SHALL BE MINIMAL AND SHALL INCLUDE THE TIME NEEDED TO MAKE THE WORK ZONE SUITABLE FOR TRAFFIC QUEUE CLEARING. REFER TO STANDARD PLAN INDEX 102-625.
7. ALL DROP OFFS ALONG CONSTRUCTION WORK ZONES SHALL BE HANDLED PER STANDARD PLAN INDEX 102-600. NO VERTICAL DROP-OFFS GREATER THAN 1.5 INCHES SHALL BE LEFT EXPOSED AND UNMITIGATED DURING NON-WORKING HOURS. CHANNELIZING DEVICES SHALL REMAIN IN PLACE AT ALL TIMES TO DELINEATE MITIGATED VERTICAL DROP-OFFS GREATER THAN 3 INCHES ALONG THE WORK ZONE.
8. INSTALL APRONS PER STANDARD PLAN INDEX 102-600 TO MITIGATE FOR UNEVEN SURFACES ALONG THE TRAVELED WAY DURING NON-WORKING HOURS.
9. ADDITIONAL FLAGGERS MAY BE REQUIRED TO ENSURE DRIVEWAY ACCESSIBILITY DURING MILLING AND PAVING OPERATIONS.
10. PEDESTRIANS SHALL BE ESCORTED BY FLAGGERS THROUGH THE WORK ZONE.
11. TRENCHING, SHORING, AND BACKFILLING FOR DRAINAGE INSTALLATION SHALL BE PER MONROE COUNTY STANDARD SPECIFICATION SECTION 80.
12. CONTRACTOR SHALL IDENTIFY STAGING AREAS ALONG THE PROJECT SITE AND SUBMIT FOR APPROVAL TO THE COUNTY PROJECT MANAGER AND EOR PRIOR TO MOBILIZATION OF EACH PHASE OF THE PROJECT.
13. ANY ROAD CLOSURES TO BE COORDINATED WITH THE COUNTY.

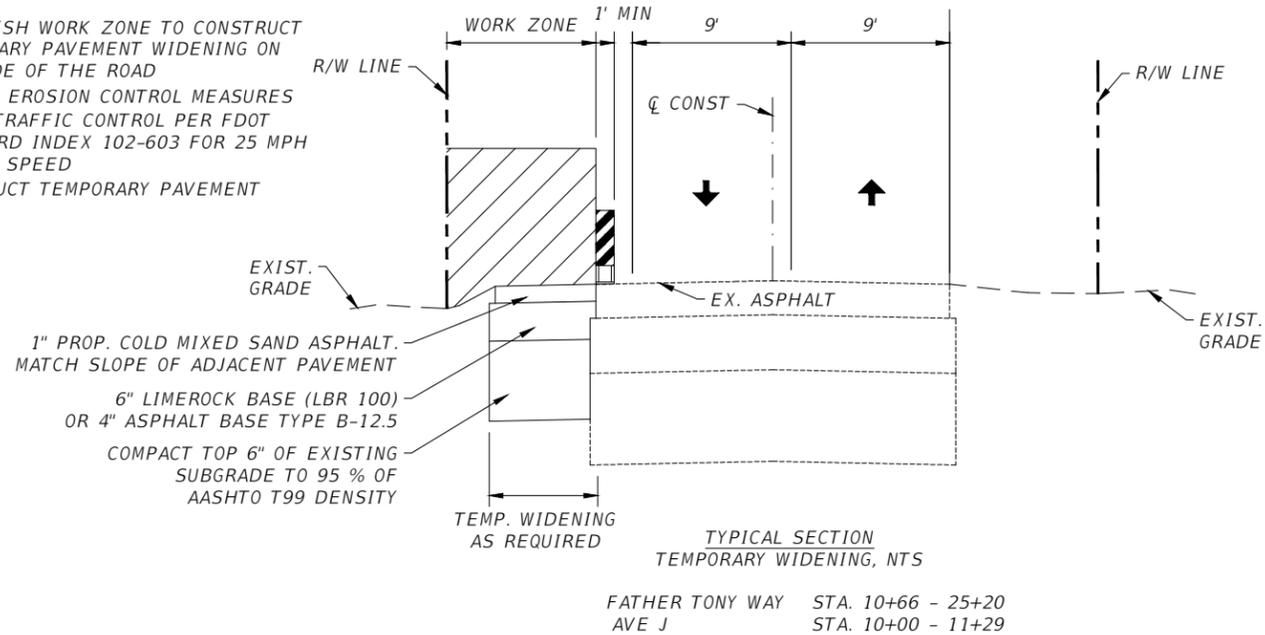
**REQUIREMENTS**

1. PROJECT WORK HOURS ARE BETWEEN 7:00 AM AND 7:00 PM MONDAY THROUGH FRIDAY. NO WORK IS ALLOWED ON WEEKENDS OR LEGAL HOLIDAYS, UNLESS AUTHORIZED BY THE COUNTY, WITH A WRITTEN REQUEST, SUBMITTED BY THE CONTRACTOR 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
2. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE WORK ZONES SHALL BE MAINTAINED.
3. ALL ROAD CLOSED SIGNS SHALL BE MOUNTED ON TYPE III BARRICADES.
4. RESTORE ALL SWALES DRIVEWAYS AND SIDEWALKS IMPACTED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER.
5. DURING NON-WORKING HOURS, ROADWAY SHALL BE RESTORED TO MINIMUM TWO LANE TWO-WAY ROADWAY. LENGTH OF ACTIVE WORK ZONE SHALL CONSIDER THE ABILITY TO RESTORE THE EXISTING LANE CONFIGURATION AT THE END OF EACH WORK PERIOD.
6. PROVISION SHALL BE MADE BY CONTRACTOR FOR REMOVAL OF EXISTING STORMWATER SYSTEM.

REVISIONS				ANDRES CARDONA, P.E. P.E. LICENSE NUMBER 63917 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY) MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.  TC-1B
DATE	DESCRIPTION	DATE	DESCRIPTION					
							TEMPORARY TRAFFIC CONTROL - GENERAL NOTES	

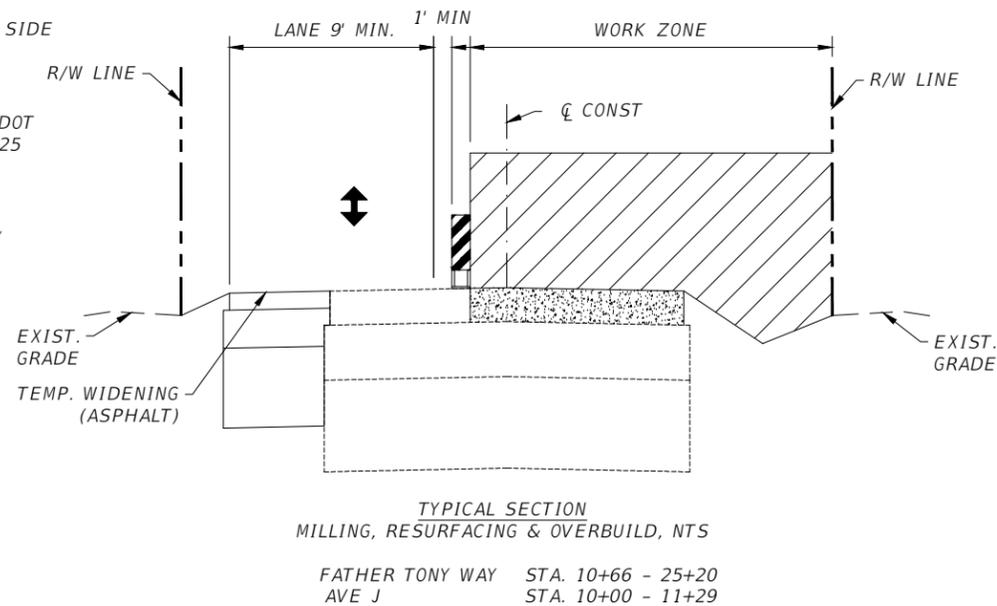
**PRE-STAGE 1 CONSTRUCTION STAGING NOTES**

1. ESTABLISH WORK ZONE TO CONSTRUCT TEMPORARY PAVEMENT WIDENING ON ONE SIDE OF THE ROAD
2. INSTALL EROSION CONTROL MEASURES
3. SETUP TRAFFIC CONTROL PER FDOT STANDARD INDEX 102-603 FOR 25 MPH POSTED SPEED
4. CONSTRUCT TEMPORARY PAVEMENT



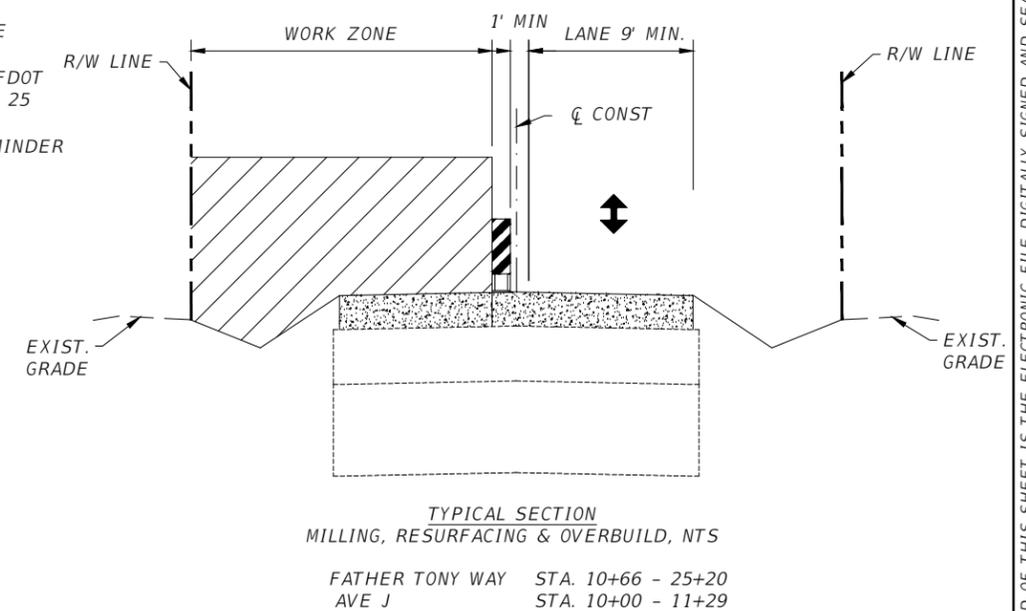
**STAGE 1A CONSTRUCTION STAGING NOTES**

1. ESTABLISH WORK ZONE ON ONE SIDE OF THE ROADWAY
2. INSTALL EROSION CONTROL MEASURES
3. SETUP TRAFFIC CONTROL PER FDOT STANDARD INDEX 102-603 FOR 25 MPH POSTED SPEED
4. CONSTRUCT DRAINAGE SYSTEM
5. MILL AND RESURFACE MINIMUM WIDTH OF 12 FEET OF ROADWAY
6. REOPEN TO TRAFFIC



**STAGE 1B CONSTRUCTION STAGING NOTES**

1. ESTABLISH WORK ZONE ON THE OTHER SIDE OF THE ROADWAY
2. SETUP TRAFFIC CONTROL PER FDOT STANDARD INDEX 102-603 FOR 25 MPH POSTED SPEED
3. MILL AND RESURFACE THE REMINDER OF THE PROPOSED ROADWAY
4. CONSTRUCT DRAINAGE SYSTEM
5. REOPEN TO TRAFFIC



REVISIONS			
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P.E. LICENSE NUMBER 63917  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
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CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

TEMPORARY TRAFFIC CONTROL -  
CONSTRUCTION STAGING NOTES

SHEET NO.

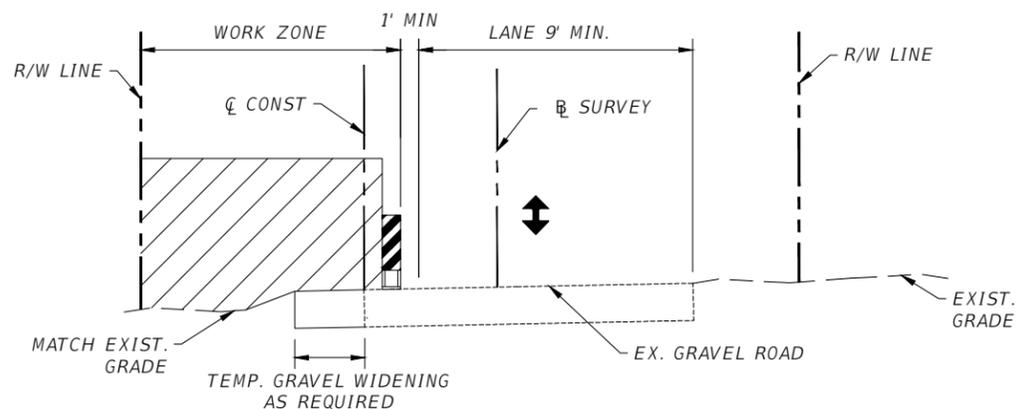
TC-2B

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**PRE-STAGE 2**

**PRE-STAGE 2 CONSTRUCTION STAGING NOTES**

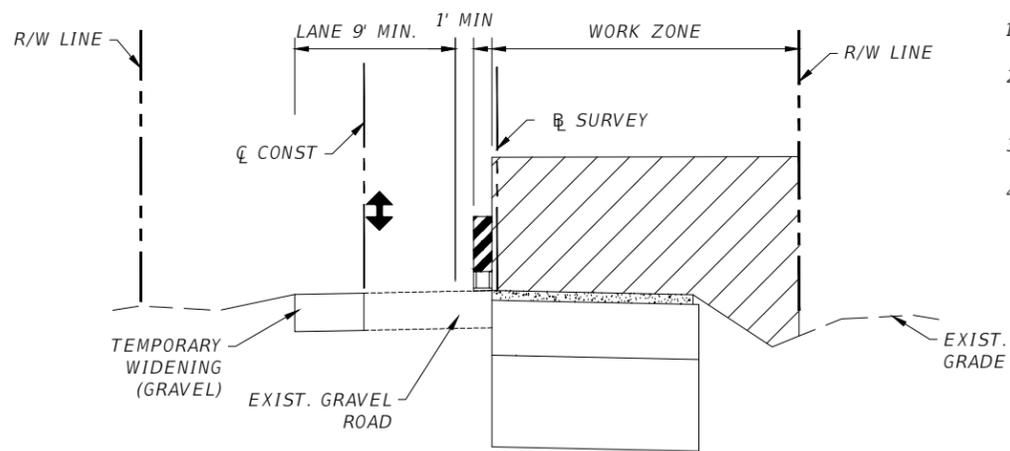
1. ESTABLISH WORK ZONE TO PREPARE ROADSIDE FOR STAGE 2A MOT. ON ONE SIDE OF THE ROAD
2. INSTALL EROSION CONTROL MEASURES
3. SETUP TRAFFIC CONTROL PER FDOT STANDARD INDEX 102-603 FOR 25 MPH POSTED SPEED
4. CLEAR OBSTRUCTIONS and PREPARE ROADSIDE FOR STAGE 2A MOT.



TYPICAL SECTION - AVE J  
TEMPORARY WIDENING, NTS  
STA. 11+29 TO STA. 12+22

**STAGE 2A CONSTRUCTION STAGING NOTES**

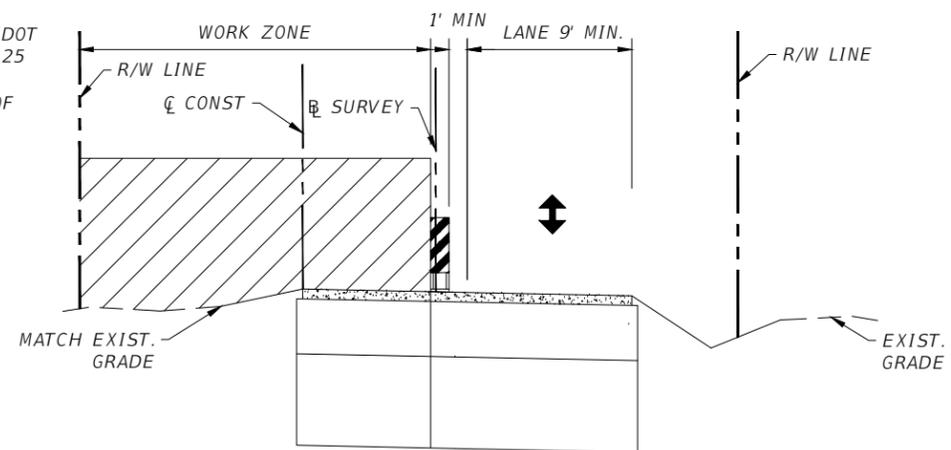
1. ESTABLISH WORK ZONE ON ONE SIDE OF THE ROADWAY
2. INSTALL EROSION CONTROL MEASURES
3. SETUP TRAFFIC CONTROL PER FDOT STANDARD INDEX 102-603 FOR 25 MPH POSTED SPEED
4. RECONSTRUCT A MINIMUM WIDTH OF 12 FEET OF ROADWAY
5. REOPEN TO TRAFFIC



TYPICAL SECTION - AVE J  
RECONSTRUCTION, NTS  
STA. 11+29 TO STA. 12+22

**STAGE 2B CONSTRUCTION STAGING NOTES**

1. ESTABLISH WORK ZONE ON THE OTHER SIDE OF THE ROADWAY
2. SETUP TRAFFIC CONTROL PER FDOT STANDARD INDEX 102-603 FOR 25 MPH POSTED SPEED
3. RECONSTRUCT THE REMINDER OF THE PROPOSED ROADWAY
4. REOPEN TO TRAFFIC



TYPICAL SECTION - AVE J  
RECONSTRUCTION, NTS  
STA. 11+29 TO STA. 12+22

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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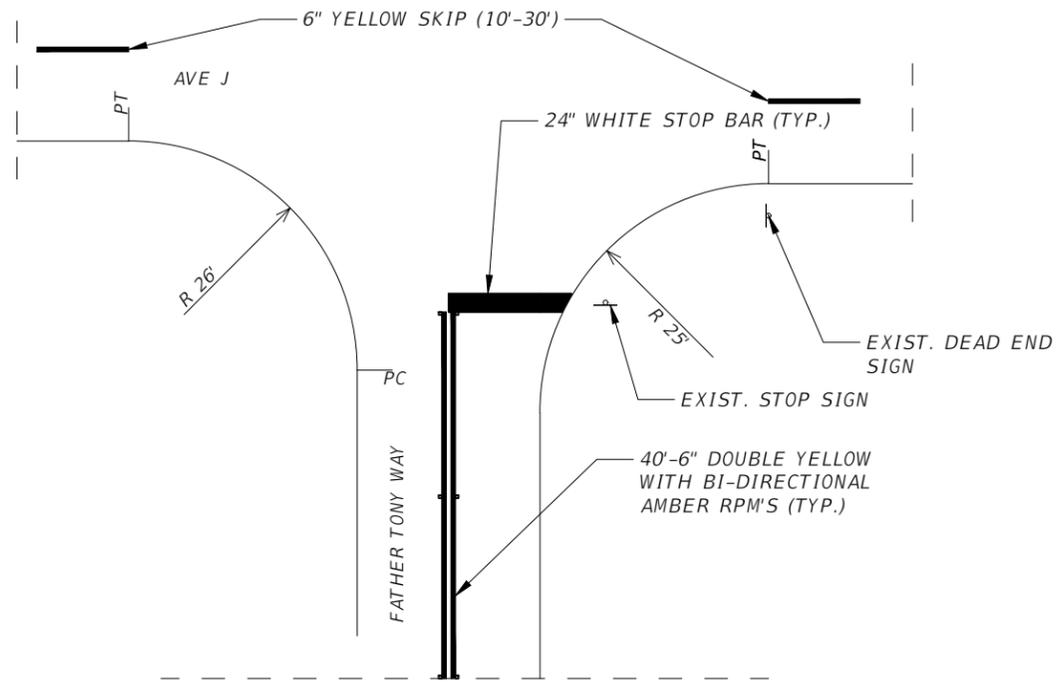
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

TEMPORARY TRAFFIC CONTROL -  
CONSTRUCTION STAGING NOTES

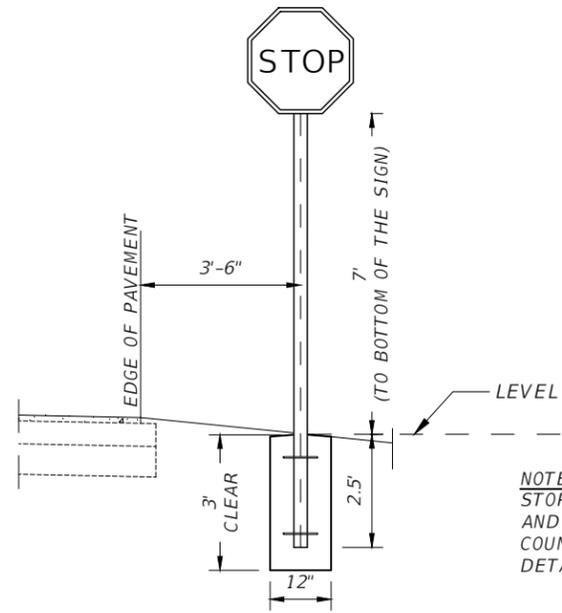
SHEET NO.

TC-3B

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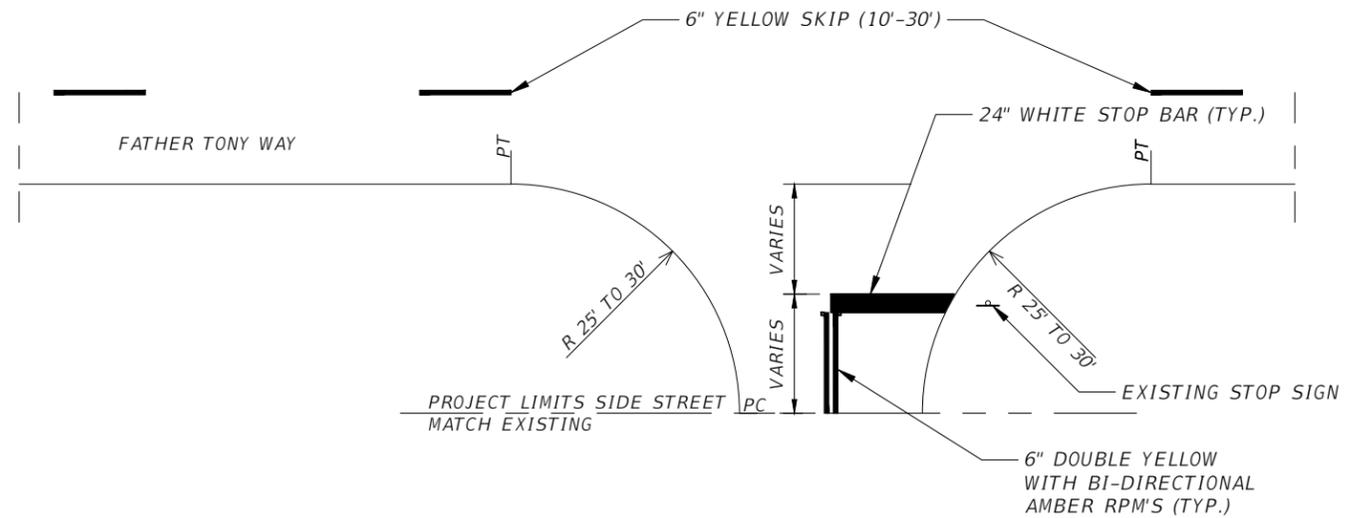


STREET / STOP SIGN DETAIL  
AT FATHER TONY DR AND AVE J.  
N.T.S



NOTE:  
STOP SIGN ASSEMBLY SHALL BE FABRICATED  
AND INSTALLED IN ACCORDANCE WITH MONROE  
COUNTY PUBLIC WORKS DEPARTMENT STANDARD  
DETAILS AND SPECIFICATIONS.

SIGN ADJACENT TO  
PAVEMENT WITHOUT CURB  
N.T.S



STREET / STOP SIGN DETAIL  
ALONG FATHER TONY DR  
N.T.S

REVISIONS			
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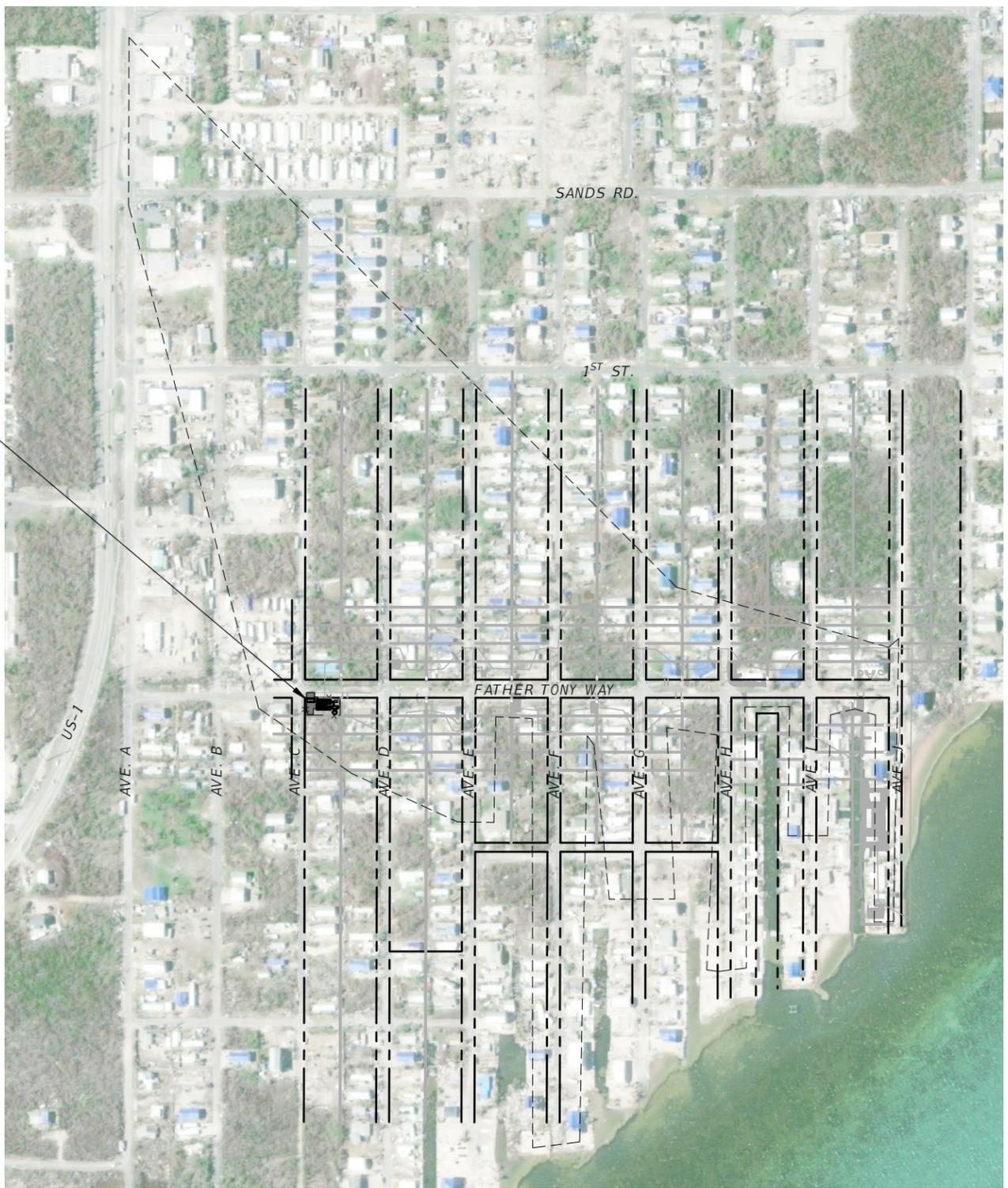


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

SIGNING PAVEMENT MARKING  
DETAILS

SHEET  
NO.

SP-1B



PROPOSED PUMP STATION LOCATION

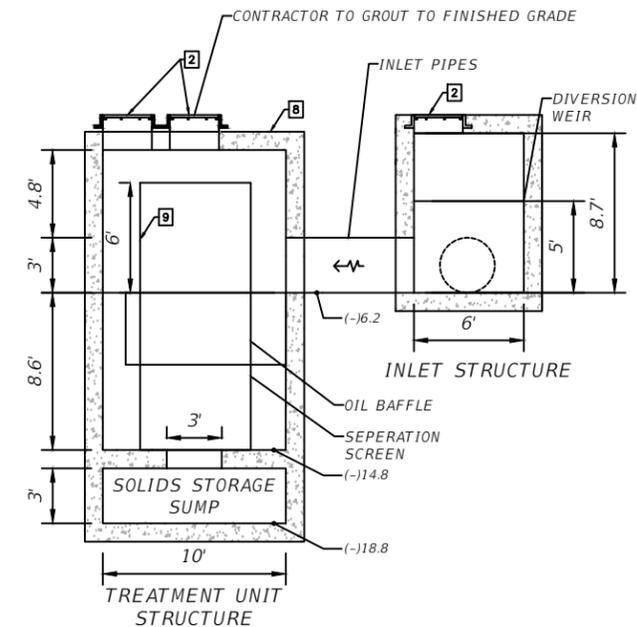
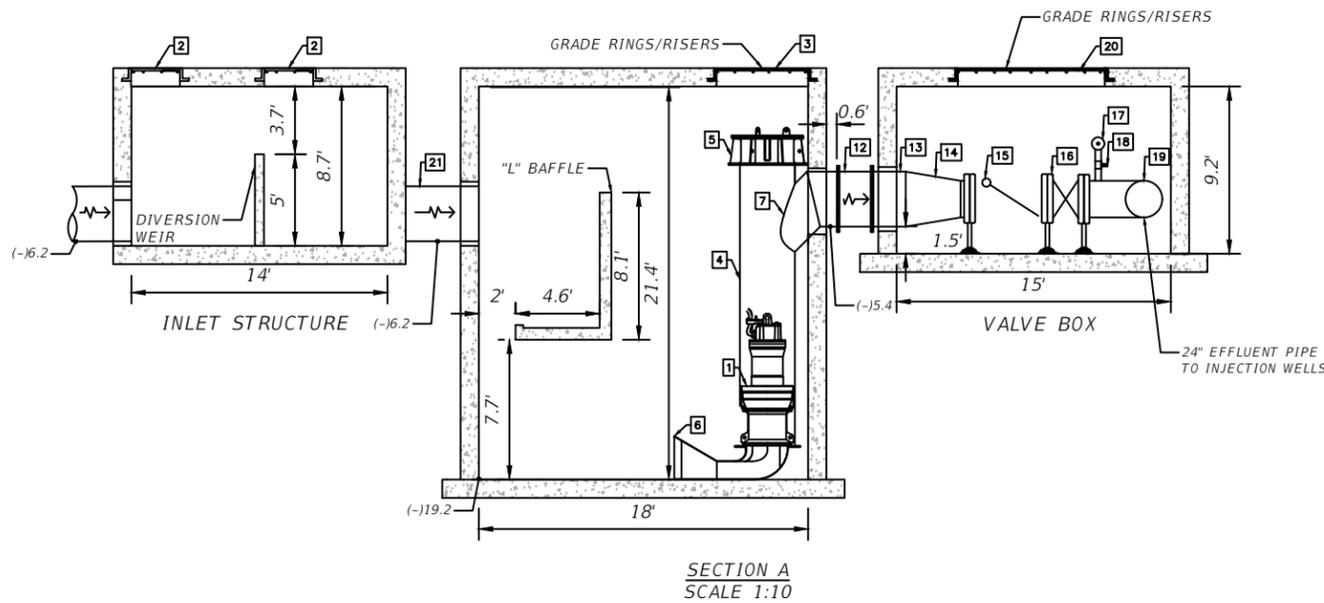
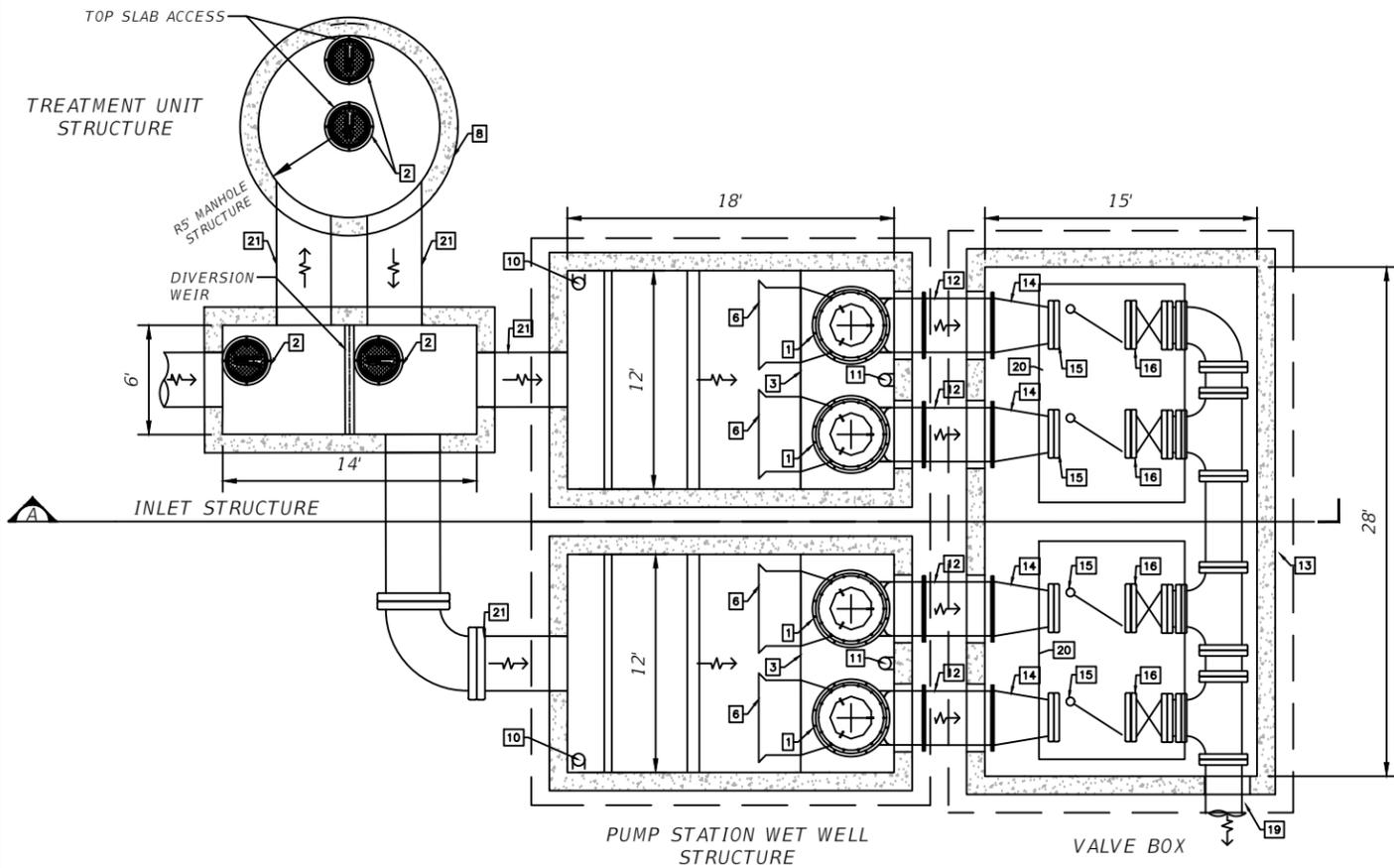
**LEGEND:**

- DRAINAGE AREA
- RIGHT OF WAY
- PROPERTY LINE

REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT            PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				DRAINAGE MAP	PS-1B

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MECHANICAL BILL OF MATERIALS			
#	DESCRIPTION	UNIT	QTY.
1.0	SHROUDED SINGLE OR MULTI-CHANNEL MIXED FLOW IMPELLER PUMP, FLYGT MODEL LL3400/706; GREY CAST IRON 3 BLADE 445mm Ø IMPELLER; 460V/135hp 3 PHASE MOTOR MODEL L0706.000 43-30-8ID-W; SUBMERSIBLE CABLE, PUMP SUPPORT, LIFTING CHAIN, LIFT TUBE WITH ELBOW AND FLANGE CONNECTION, AND ALL OTHER ITEMS REQUIRED FOR COMPLETE INSTALLATION.	EA.	4
2.0	30" MANHOLE COVER - HS20 LOAD RATED (CONTECH)	EA.	4
3.0	60"X168" ALUMINUM ACCESS HATCH, HS20 RATED, W/ AUTOMATIC HOLD OPEN ARM & SLAM LOCK	EA.	4
4.0	36" VERTICAL DISCHARGE PIPE STAINLESS STEEL (FLYGT)	EA.	4
5.0	36" DISCHARGE ELBOW COVER (FLYGT)	EA.	4
6.0	36" FORMED SUCTION INTAKE (FLYGT)	EA.	4
7.0	36" DISCHARGE ELBOW WITH FLANGED END (ANSI 125 - FLYGT)	EA.	4
8.0	POLLUTION TREATMENT UNIT - CONTECH CDS MODEL CDS5678-10-C	EA.	1
9.0	FIBERGLASS INLET FLUME FOR CONTECH CDS	EA.	1
10.0	LEVEL SENSOR - PRESSURE TRANSDUCER (FLYGT)	EA.	2
11.0	LEVEL SENSOR - FLOAT (FLYGT)	EA.	2

MECHANICAL BILL OF MATERIALS			
#	DESCRIPTION	UNIT	QTY.
12.0	24" SPOOL PIECE D.I.P. FLG.XPLAIN END (2 L.F.)	EA.	4
13.0	24" D.I.P. (1.6 L.F.)	EA.	4
14.0	36"X24" D.I.P. REDUCER	EA.	4
15.0	HORIZONTAL SWING 24" DIA. CHECK VALVE FLANGED	EA.	4
16.0	24" DIA. GATE VALVE FLANGED	EA.	4
17.0	PRESSURE GAUGES	EA.	4
18.0	1" DIA. GATE VALVE	EA.	4
19.0	24" D.I.P. EFFLUENT PIPE	EA.	4
20.0	120"X144" ALUMINUM ACCESS HATCH, H2SO RATED, W/ AUTOMATIC HOLD OPEN ARM & SLAM LOCK	EA.	4
21.0	36" H.D.P.E.	L.F.	40

PUMP SCHEDULE	
HIGH WATER ALARM	(-) 6.20 FT NAVD
ALL PUMPS ON	(-) 6.50 FT NAVD
LAG PUMP ON	(-) 7.20 FT NAVD
LEAD PUMP ON	(-) 8.20 FT NAVD
PUMPS OFF	(-) 18.20 FT NAVD
LOW WATER ALARM	(-) 19.20 FT NAVD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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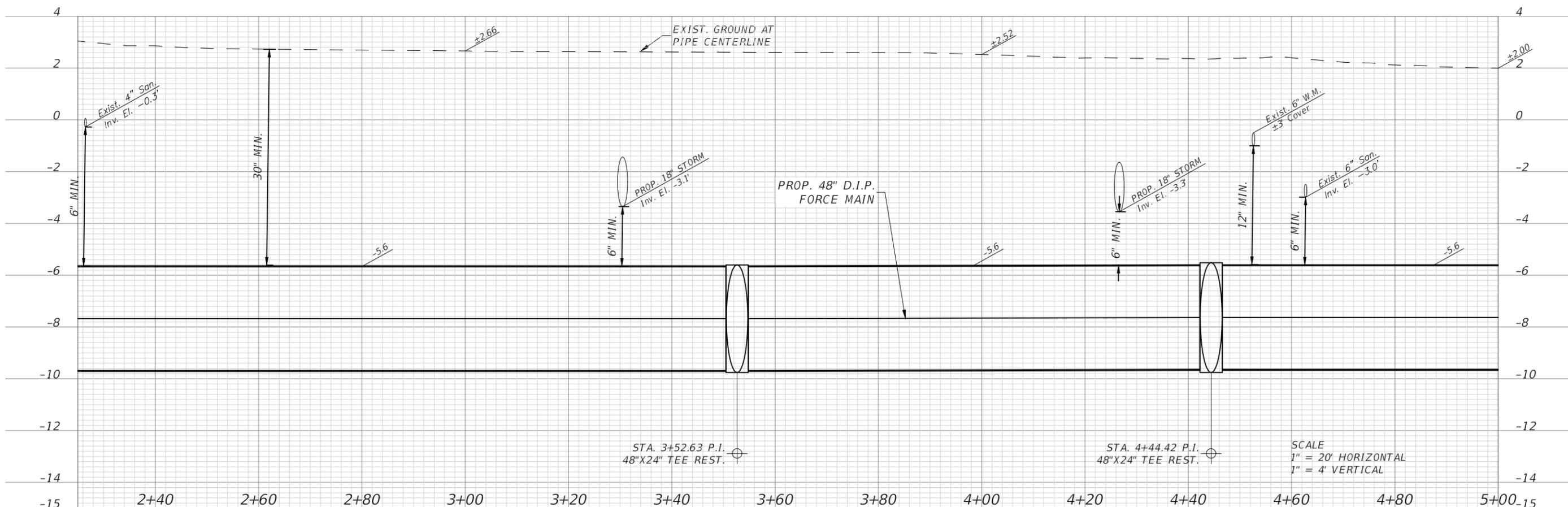
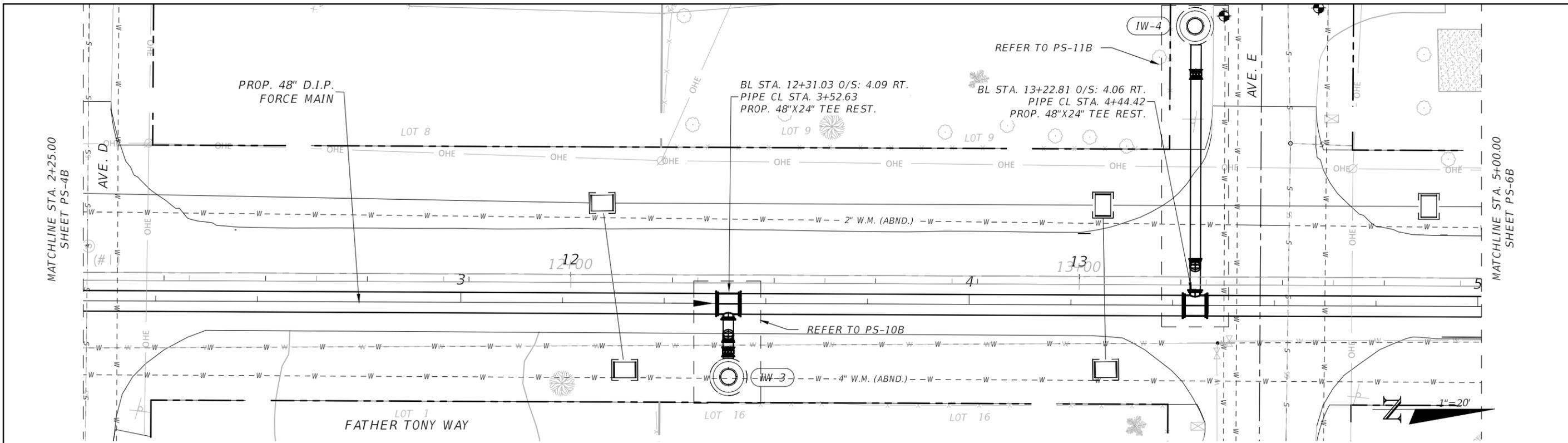
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

SHEET NO.

PUMP STATION MECHANICAL LAYOUT

PS-3B





REVISIONS			
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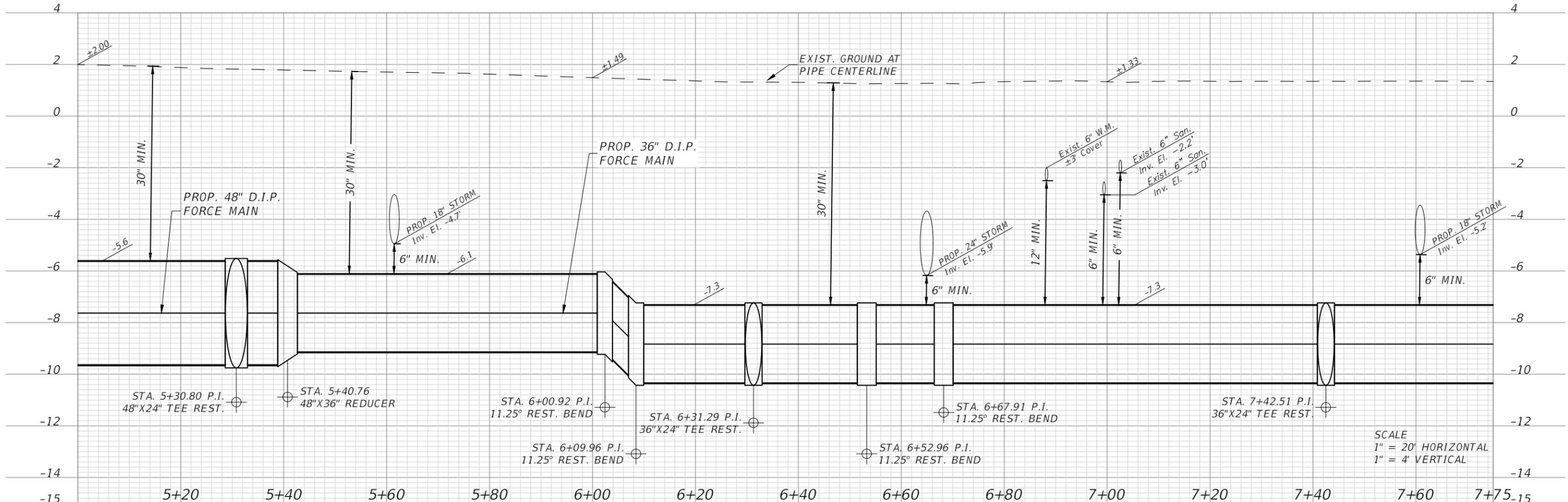
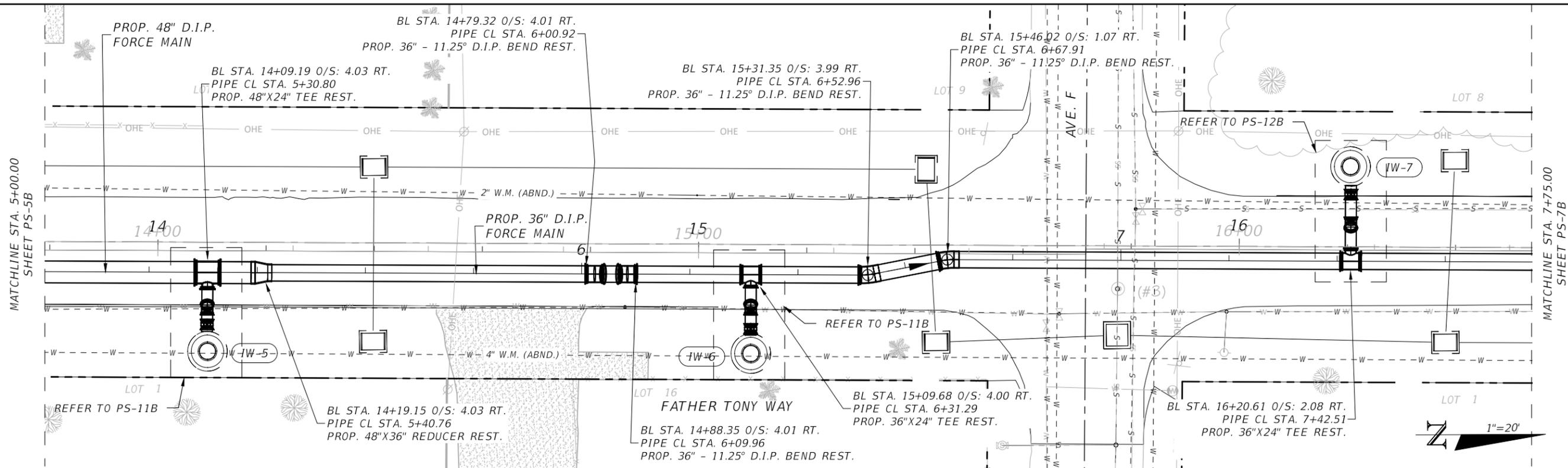


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

FORCE MAIN PLAN & PROFILE

SHEET NO.  
PS-5B

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SCALE  
 1" = 20' HORIZONTAL  
 1" = 4' VERTICAL

REVISIONS			
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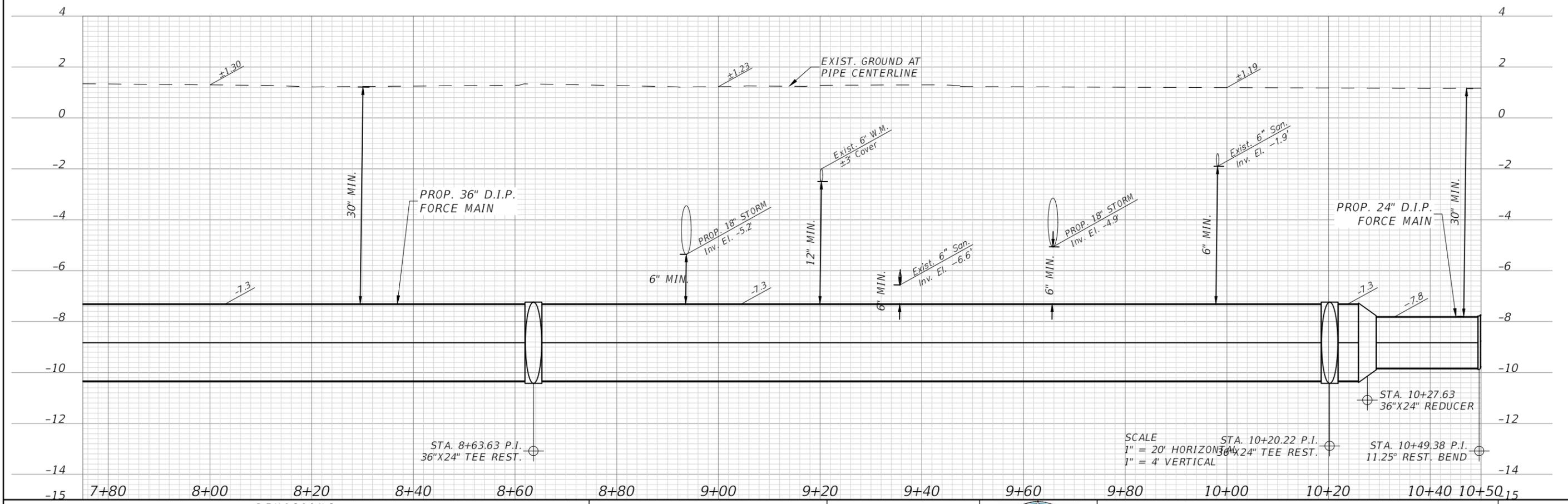
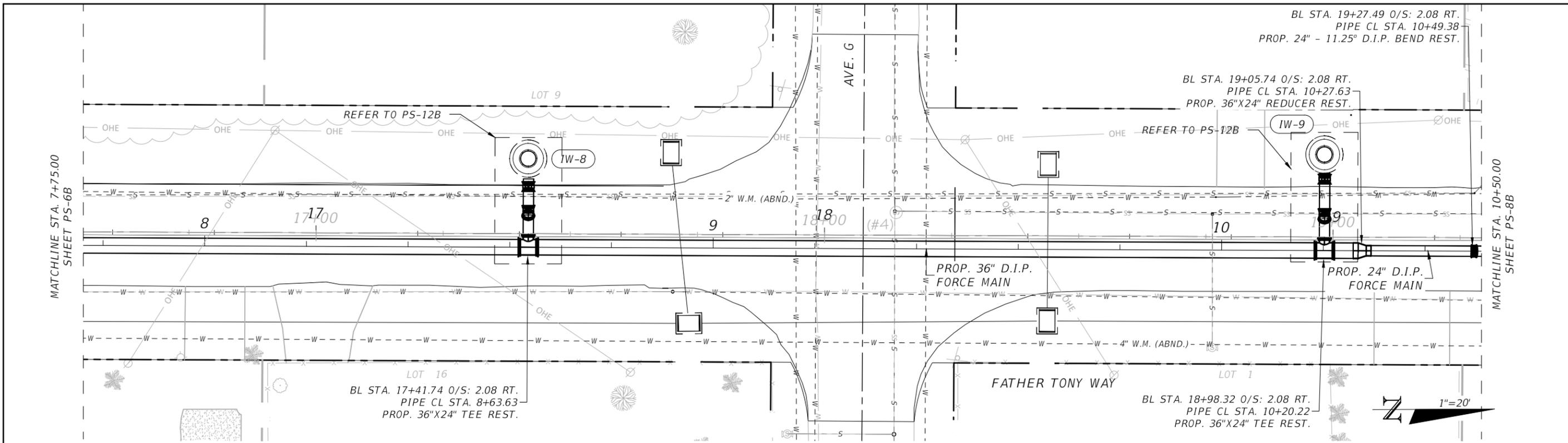


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

FORCE MAIN PLAN & PROFILE

SHEET NO.  
 PS-6B

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SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

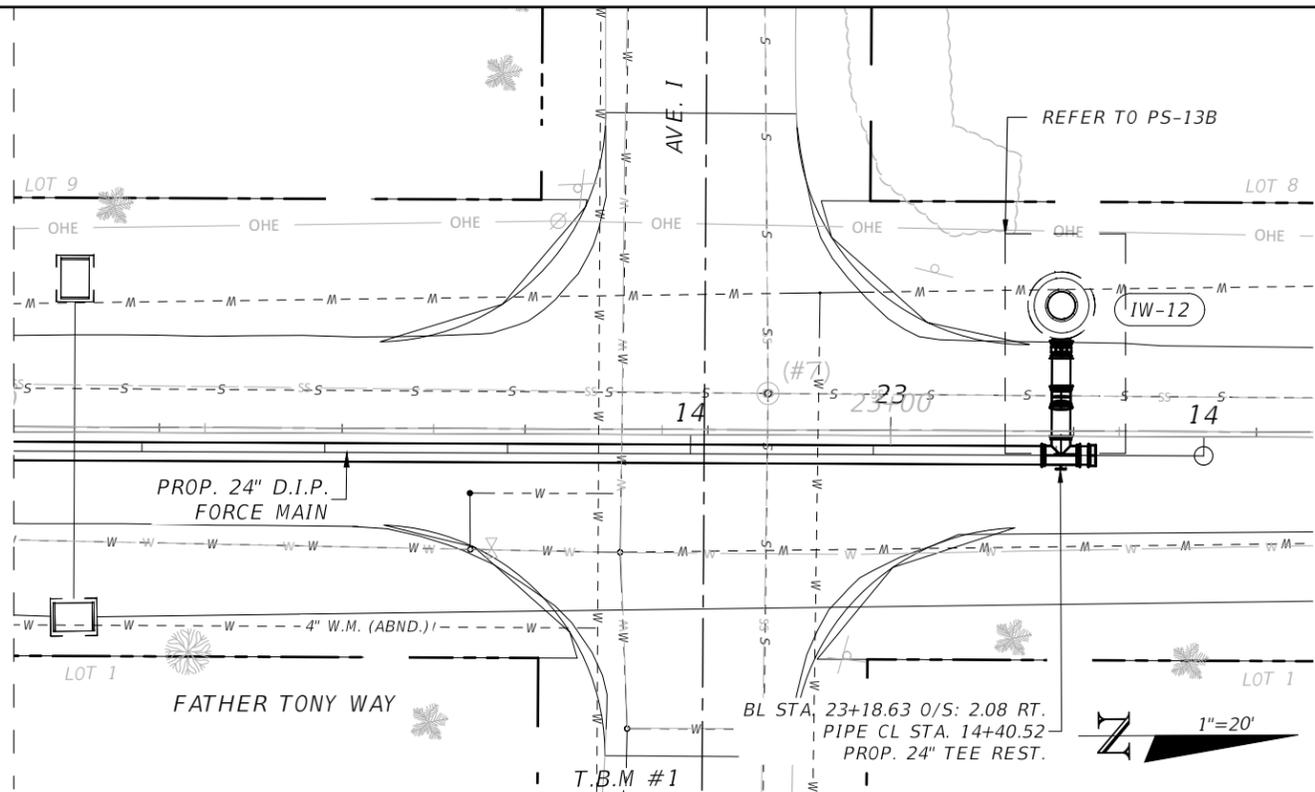
FORCE MAIN PLAN & PROFILE

SHEET NO.  
PS-7B

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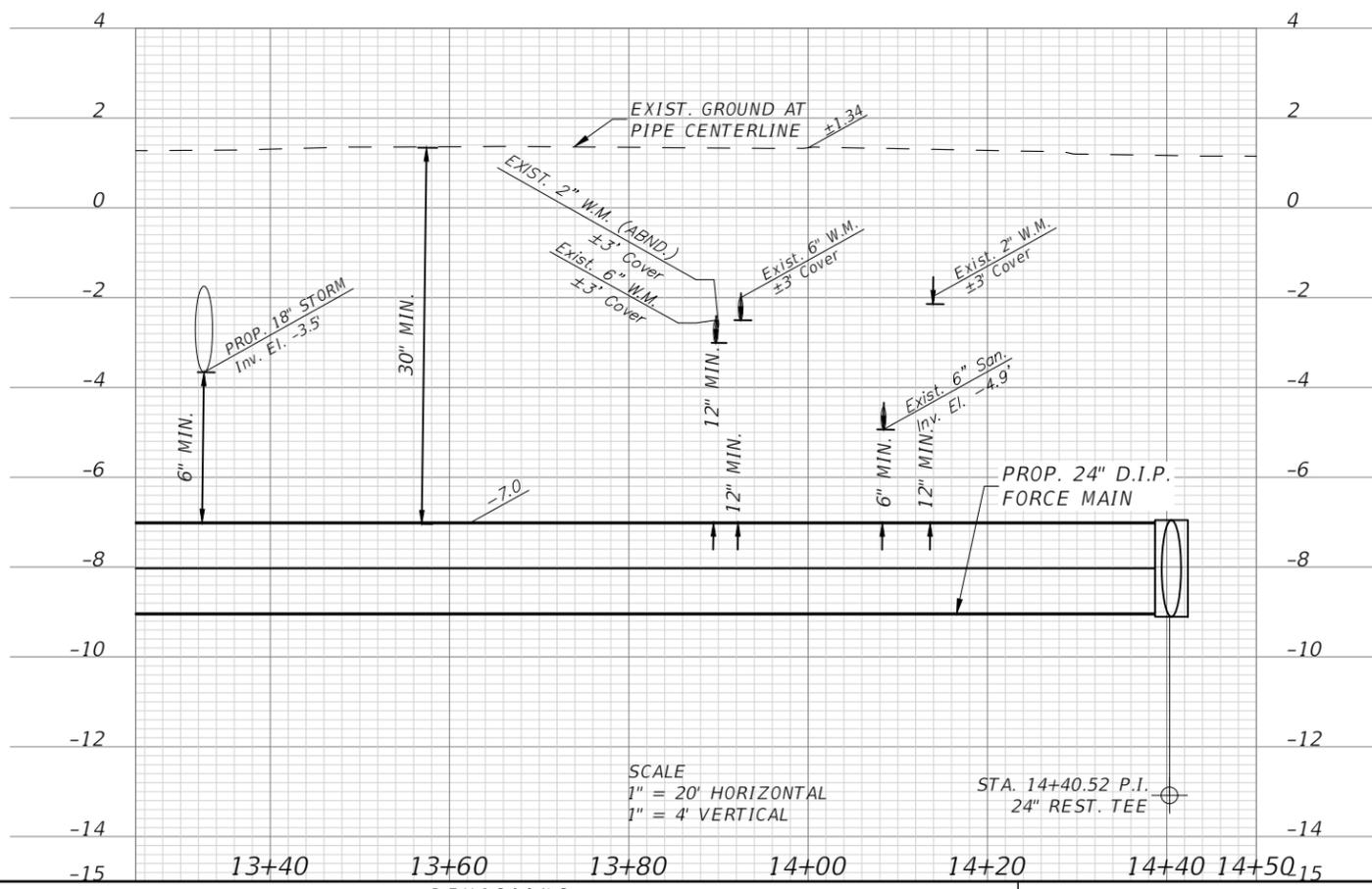


MATCHLINE STA. 13+25.00  
SHEET PS-8B



REFER TO PS-13B

BL STA. 23+18.63 O/S: 2.08 RT.  
PIPE CL STA. 14+40.52  
PROP. 24" TEE REST.



SCALE  
1" = 20' HORIZONTAL  
1" = 4' VERTICAL

STA. 14+40.52 P.I.  
24" REST. TEE

SCALE  
1" = 20' HORIZONTAL  
1" = 3' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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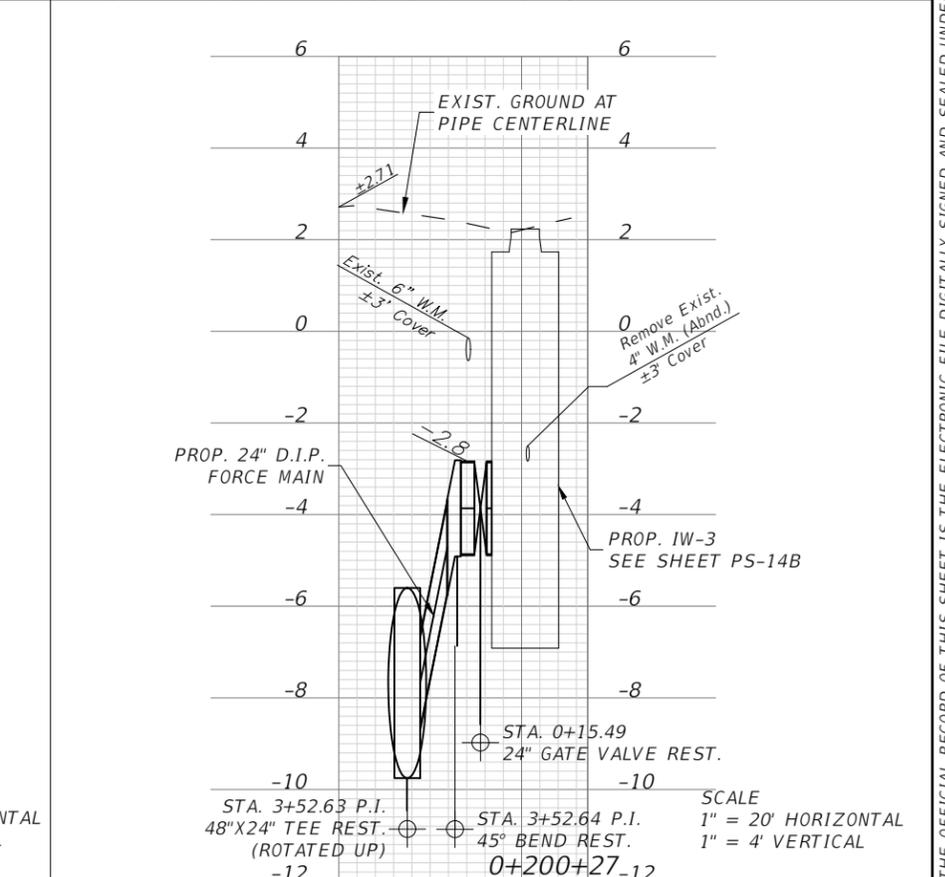
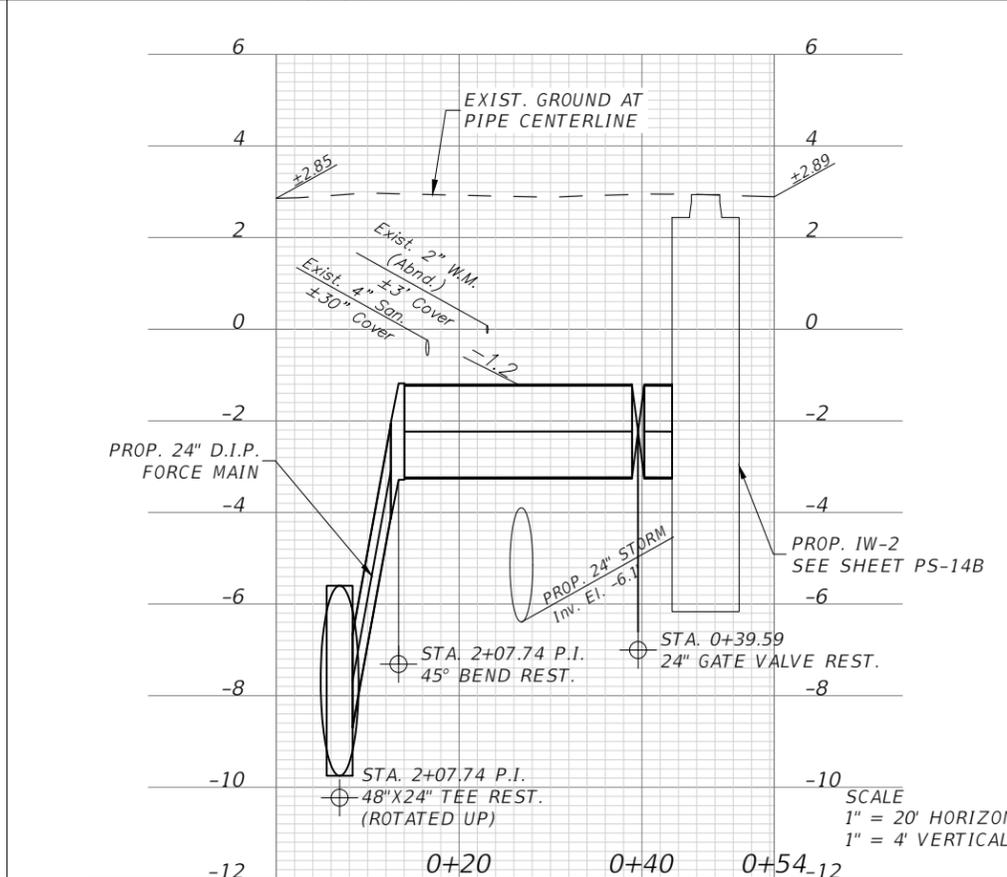
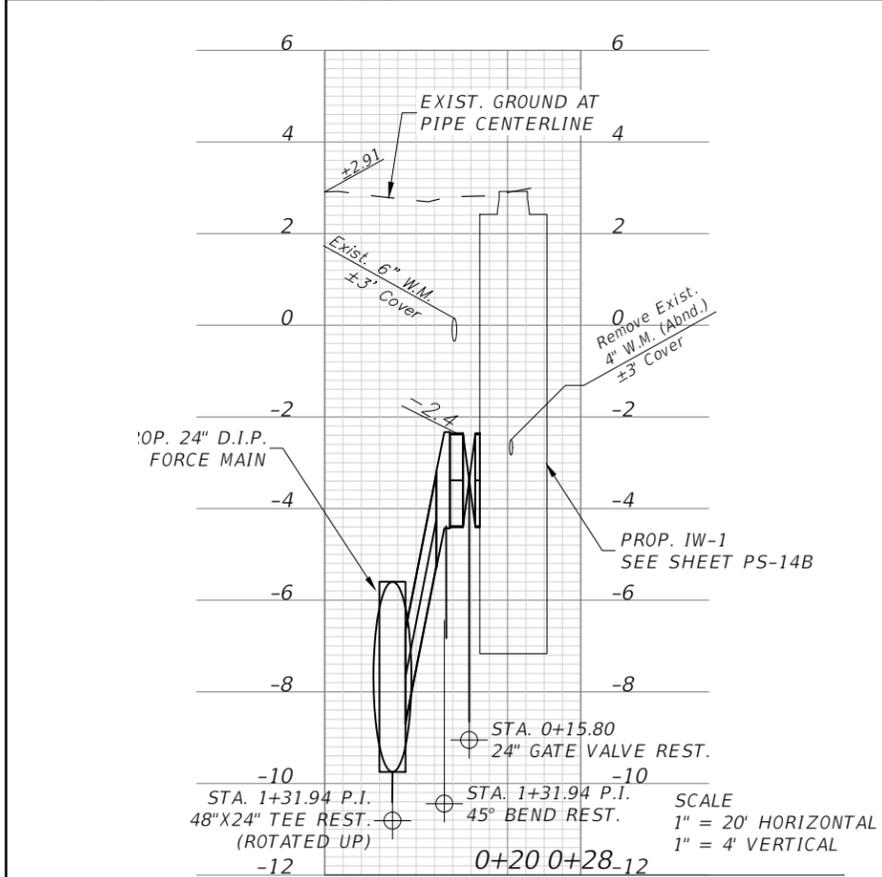
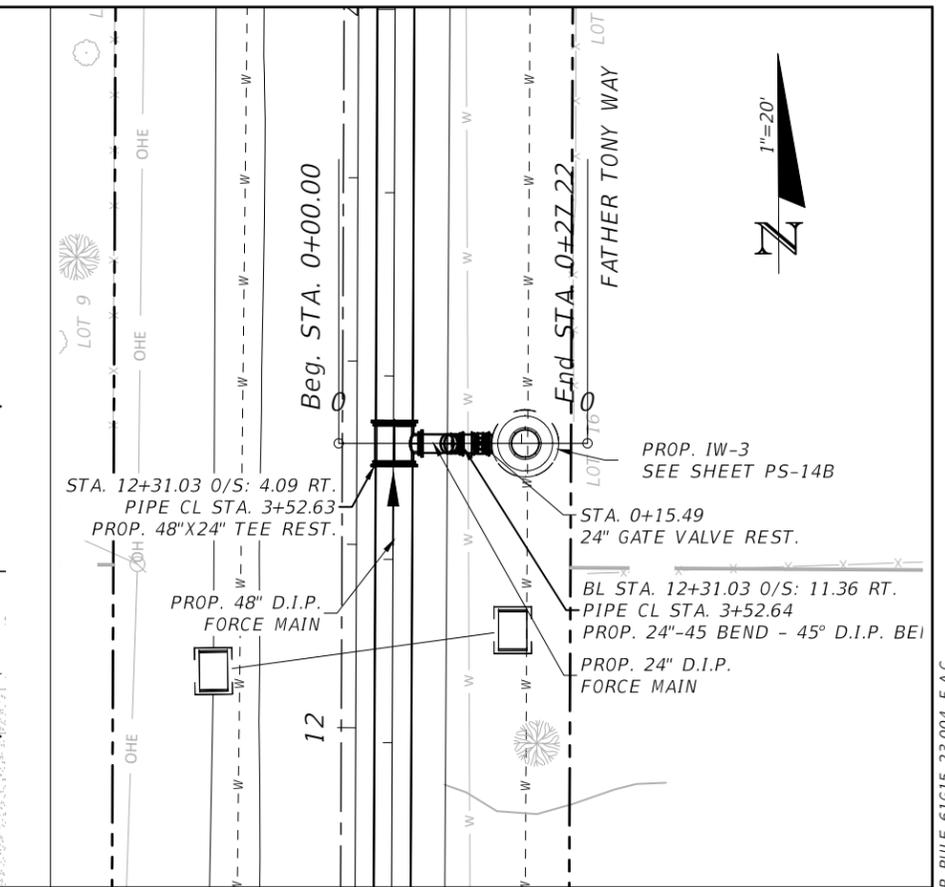
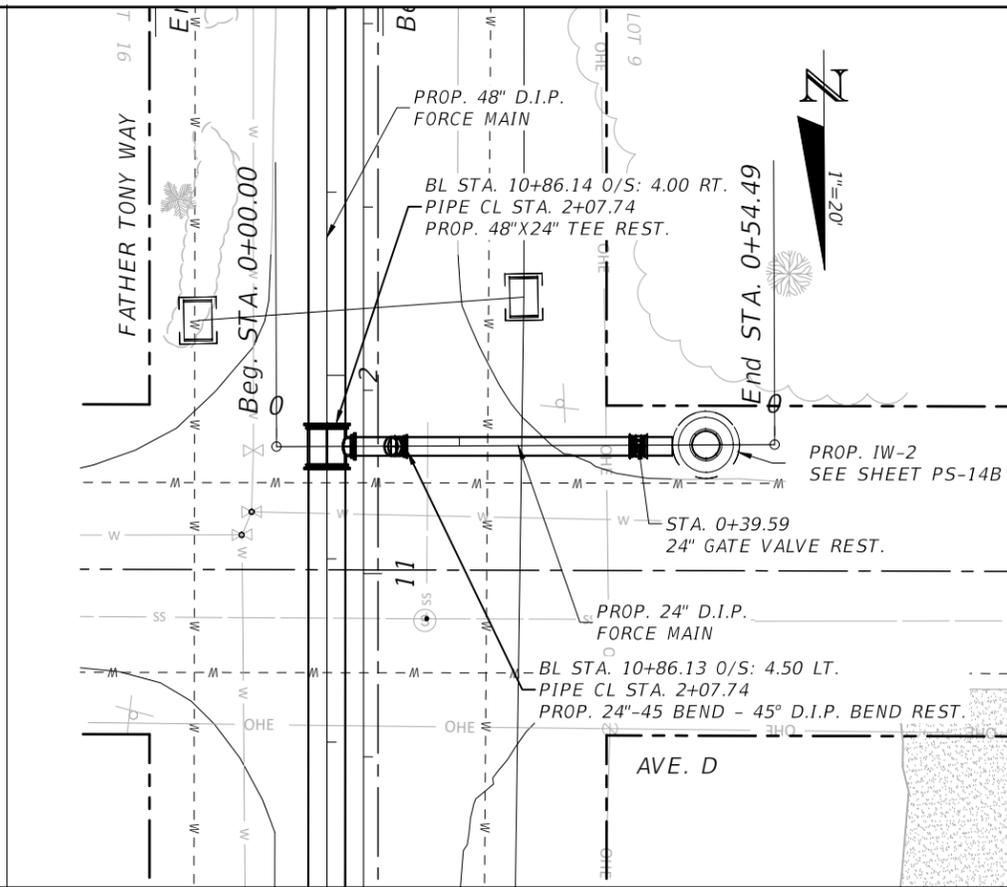
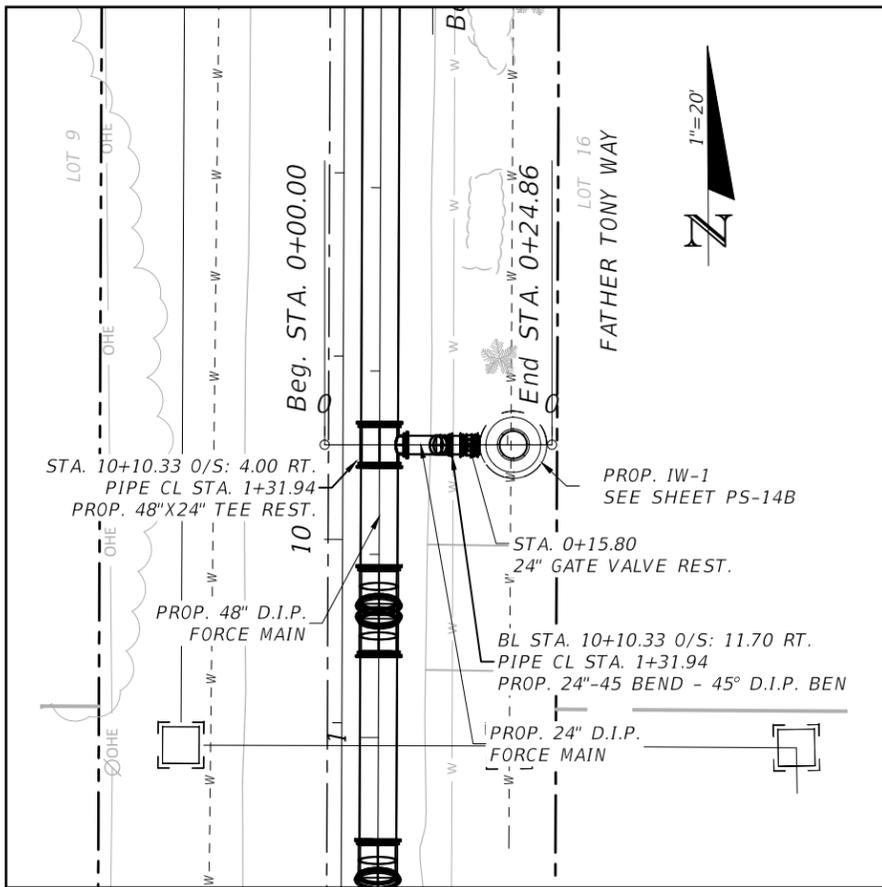
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

SHEET NO.

FORCE MAIN PLAN & PROFILE

PS-9B

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

WERNER REINEFELD, P.E.  
P.E. LICENSE NUMBER 63042  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462

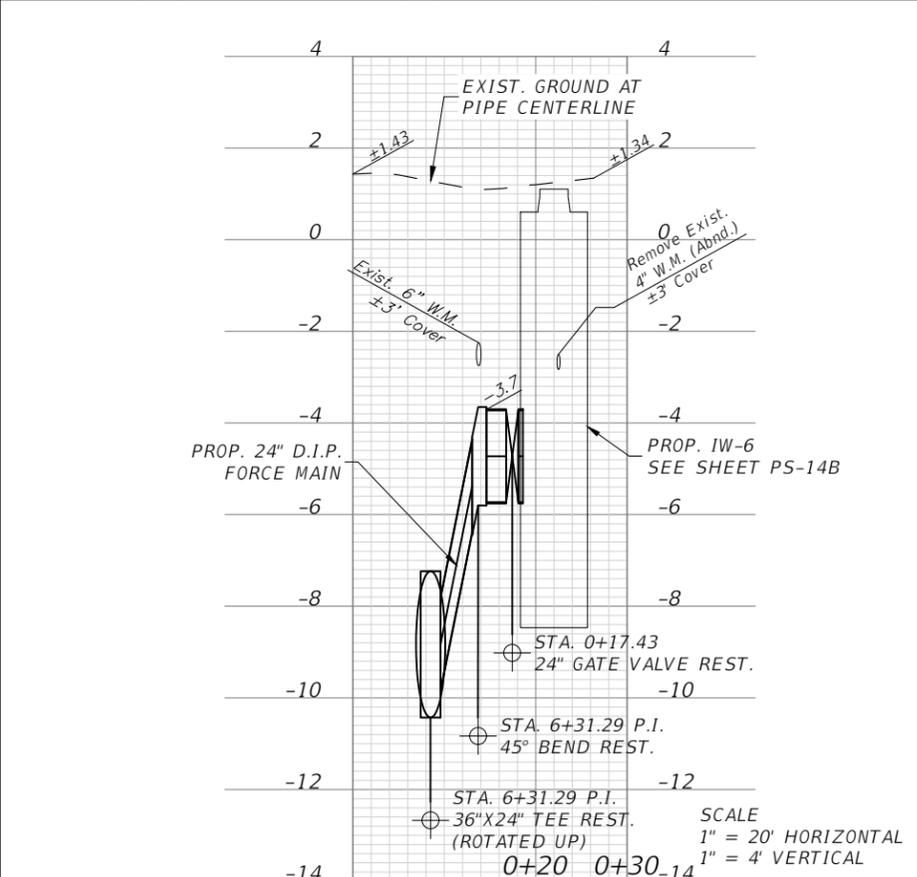
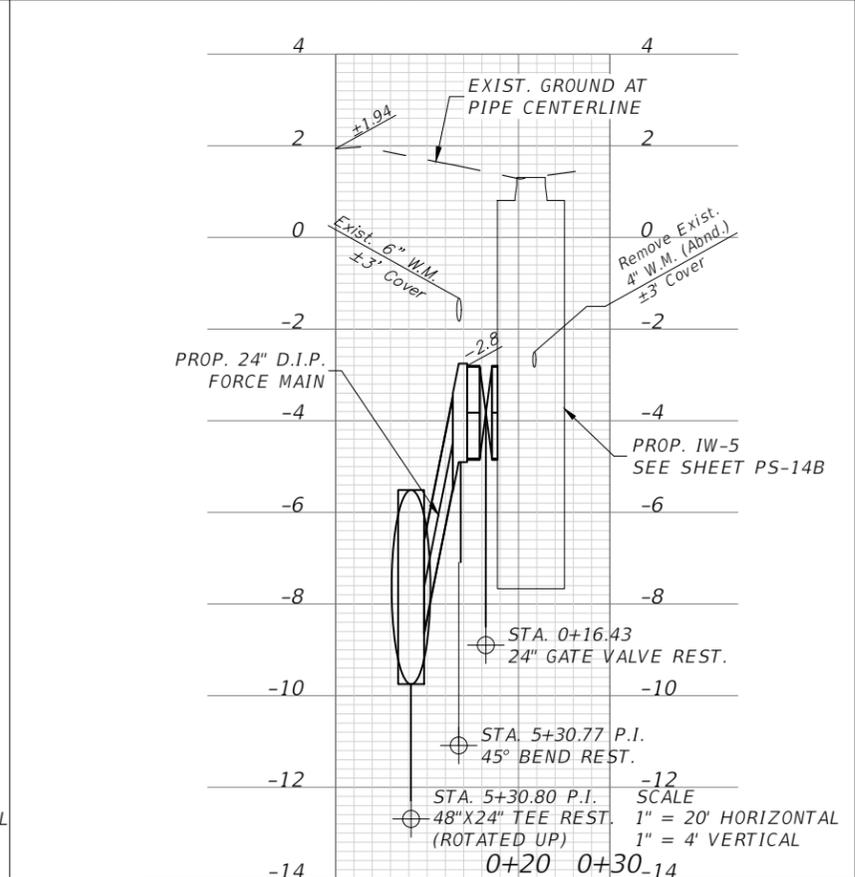
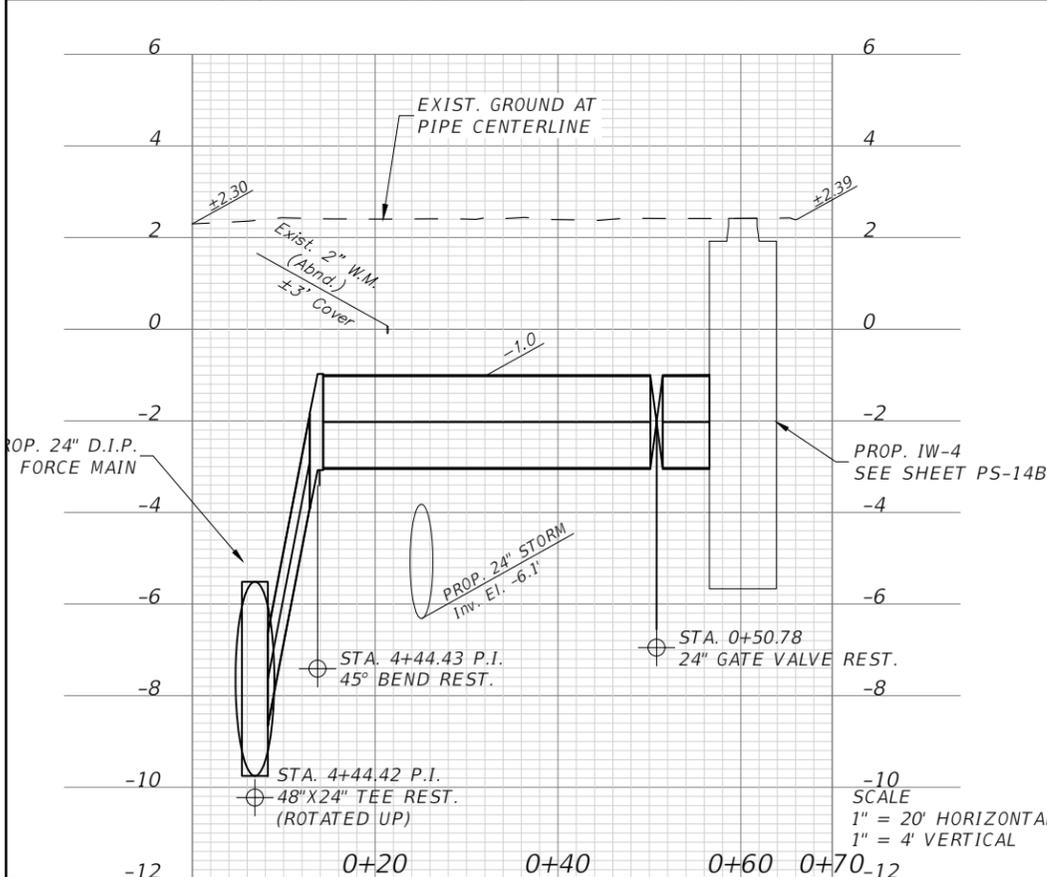
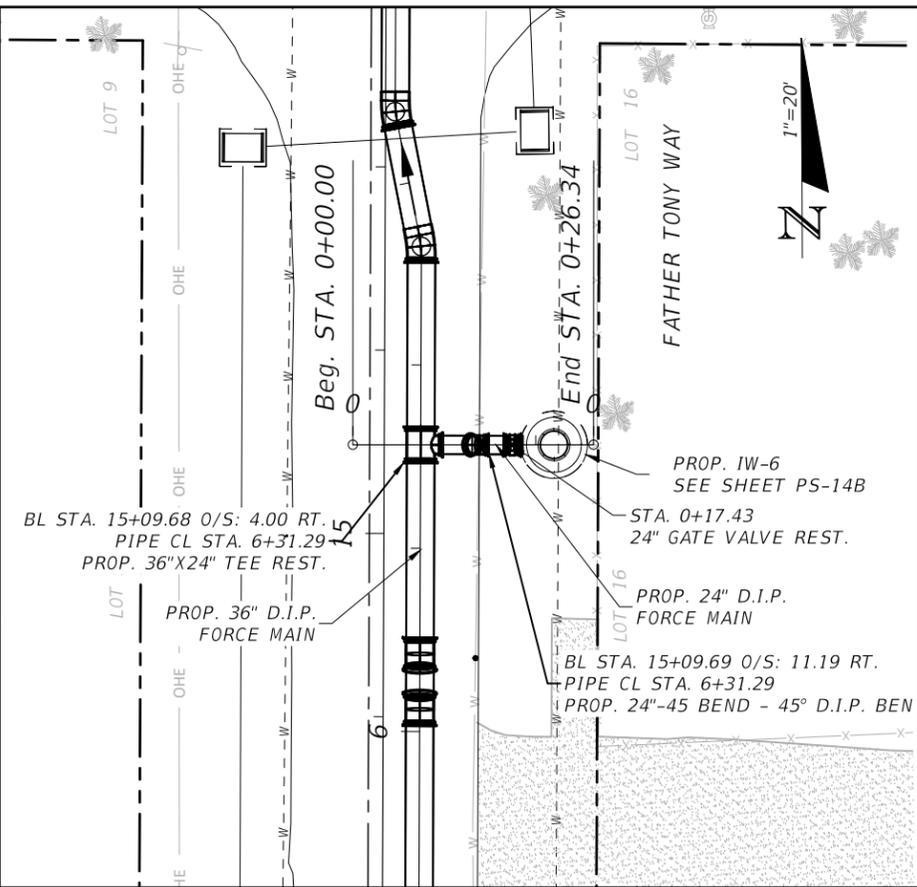
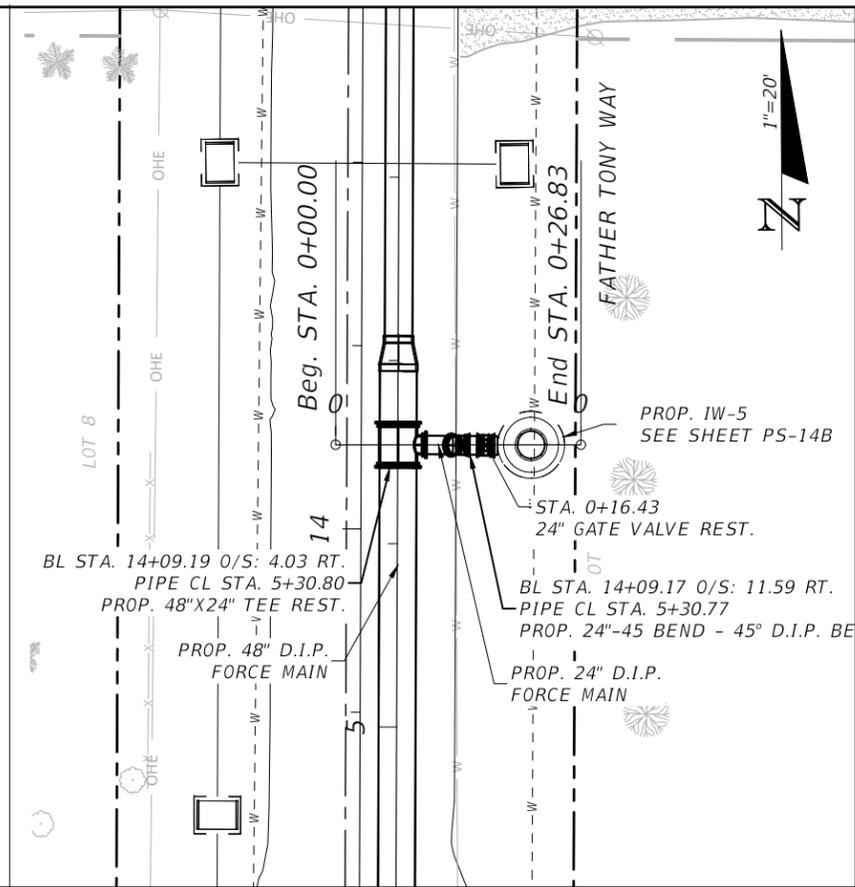
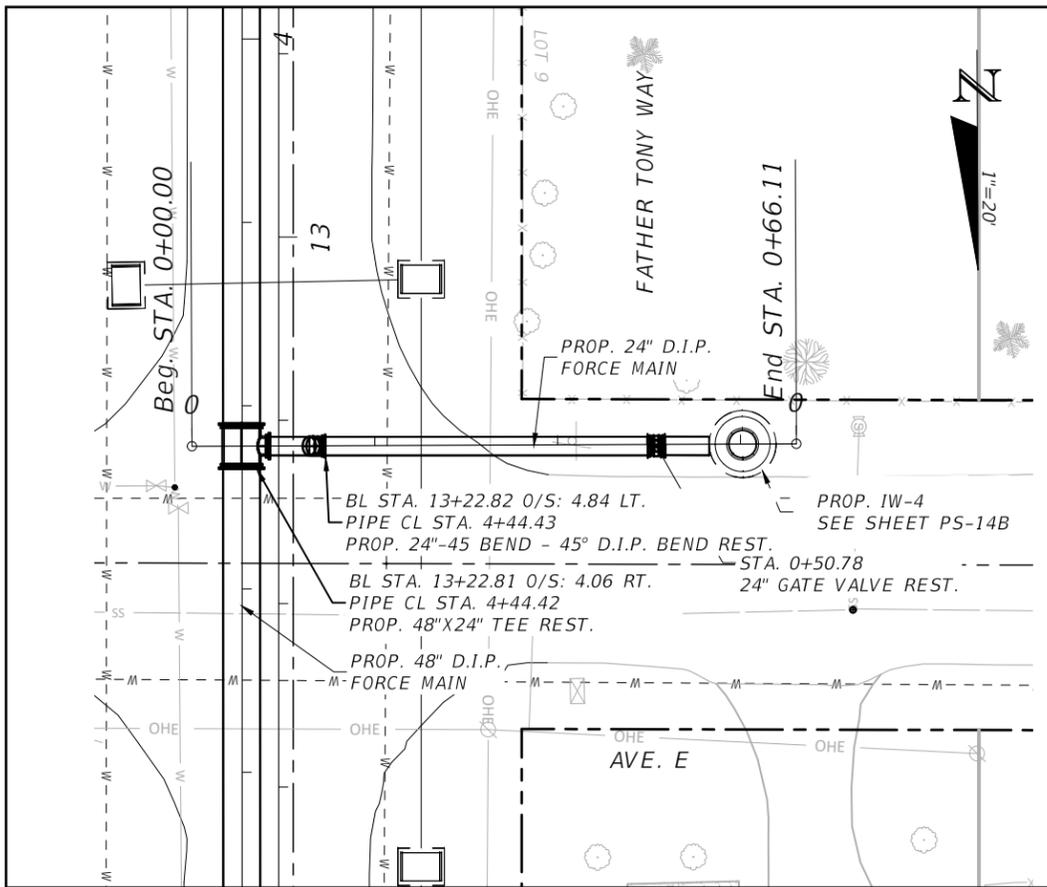


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

INJECTION WELL PLAN & PROFILE

SHEET NO.  
PS-10B

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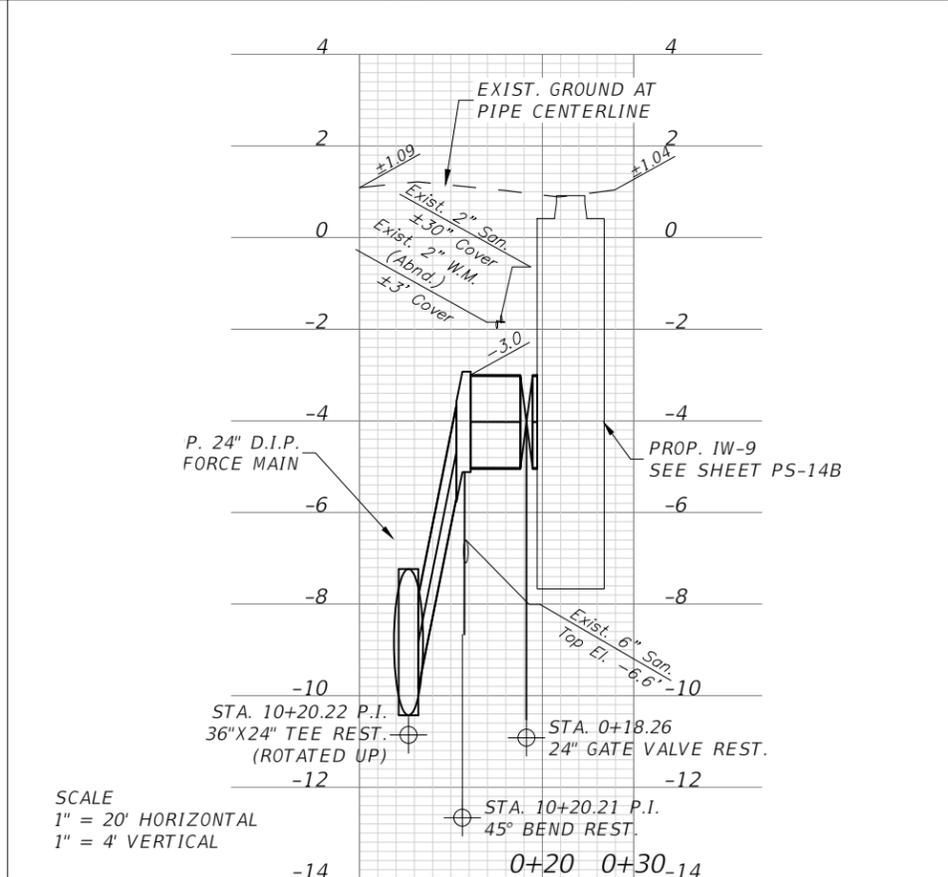
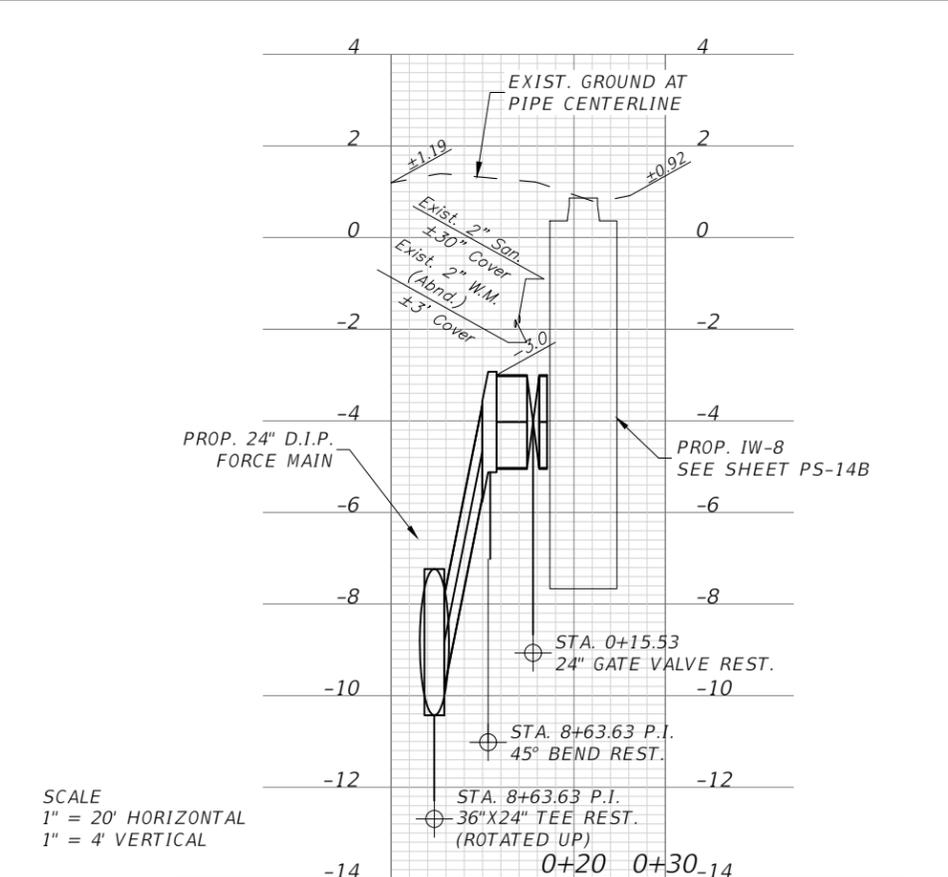
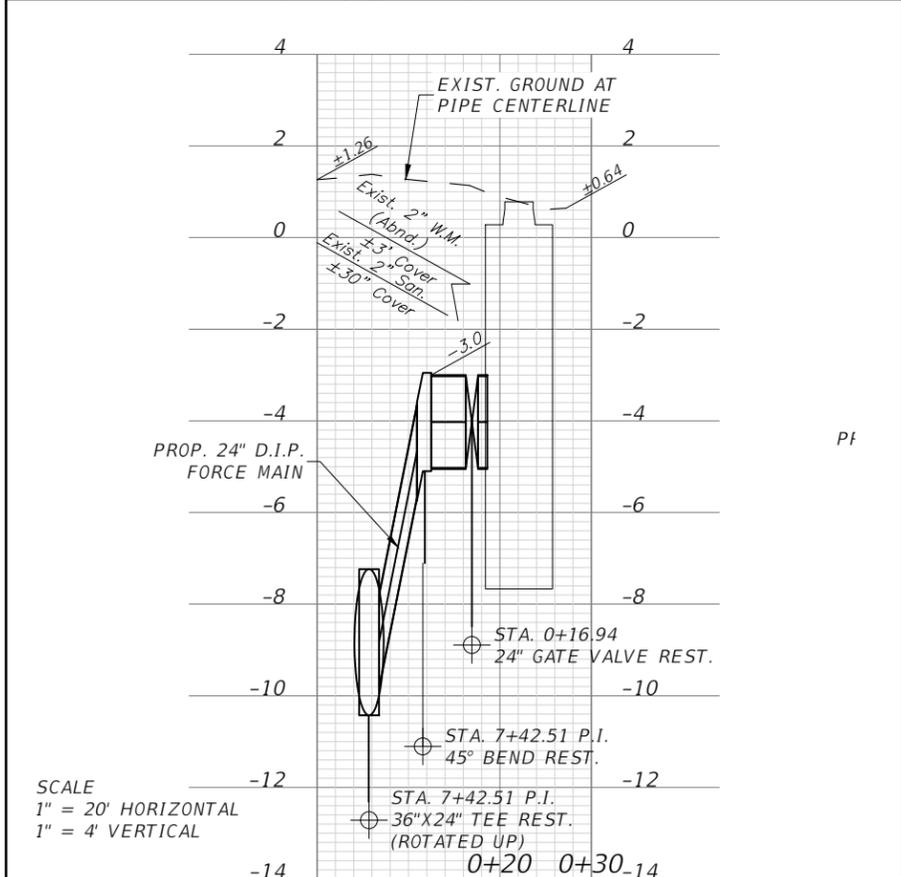
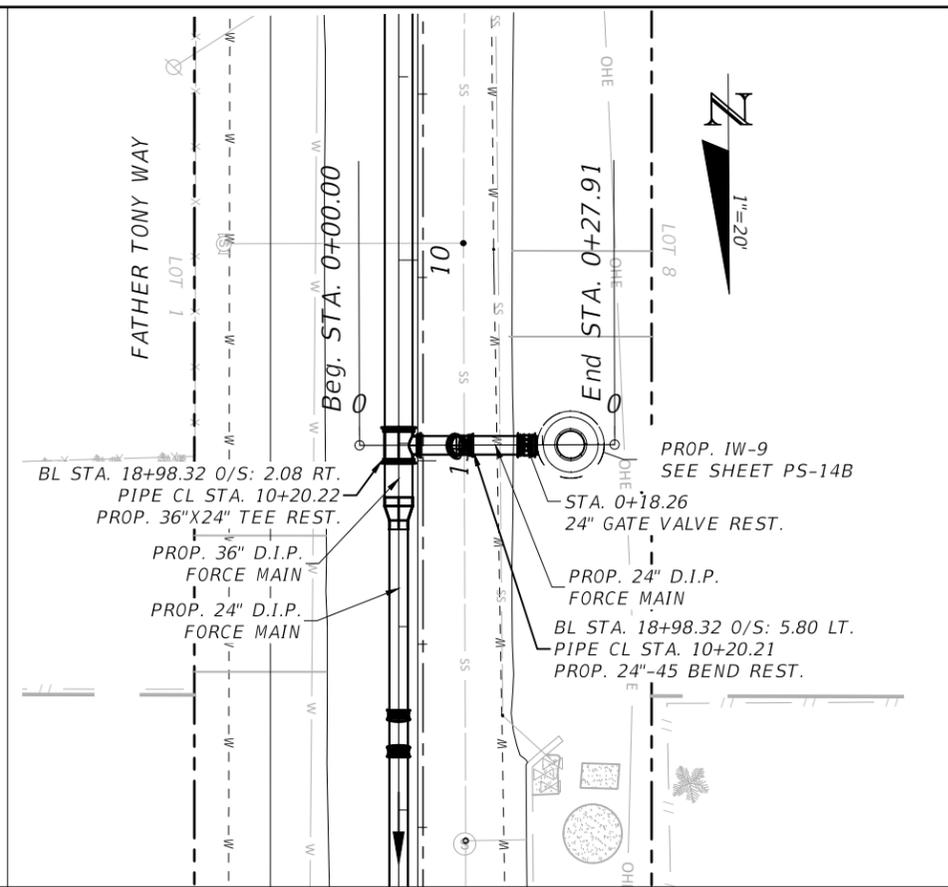
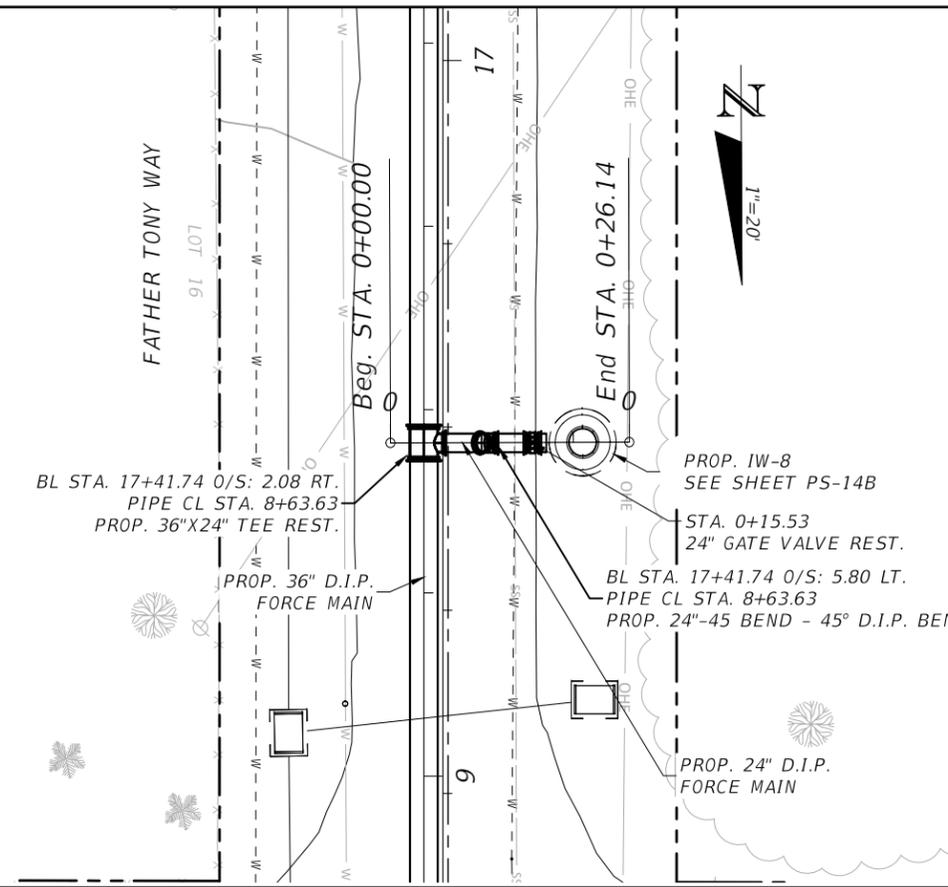
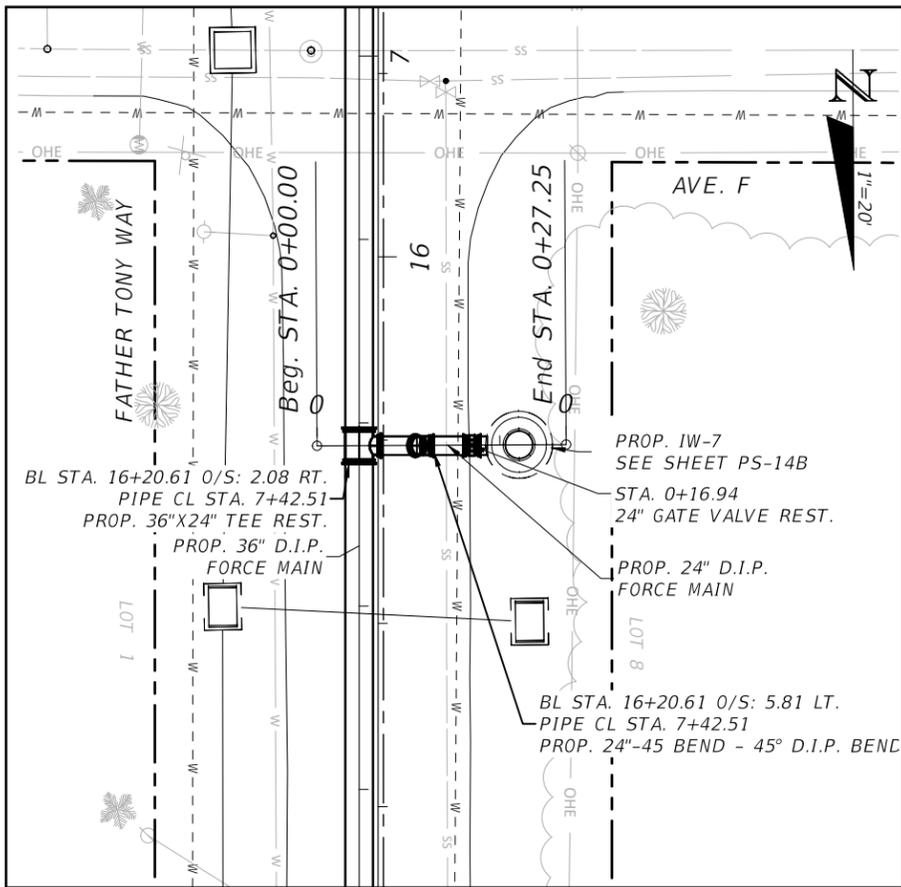


**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

**INJECTION WELL PLAN & PROFILE**

SHEET NO.  
**PS-11B**

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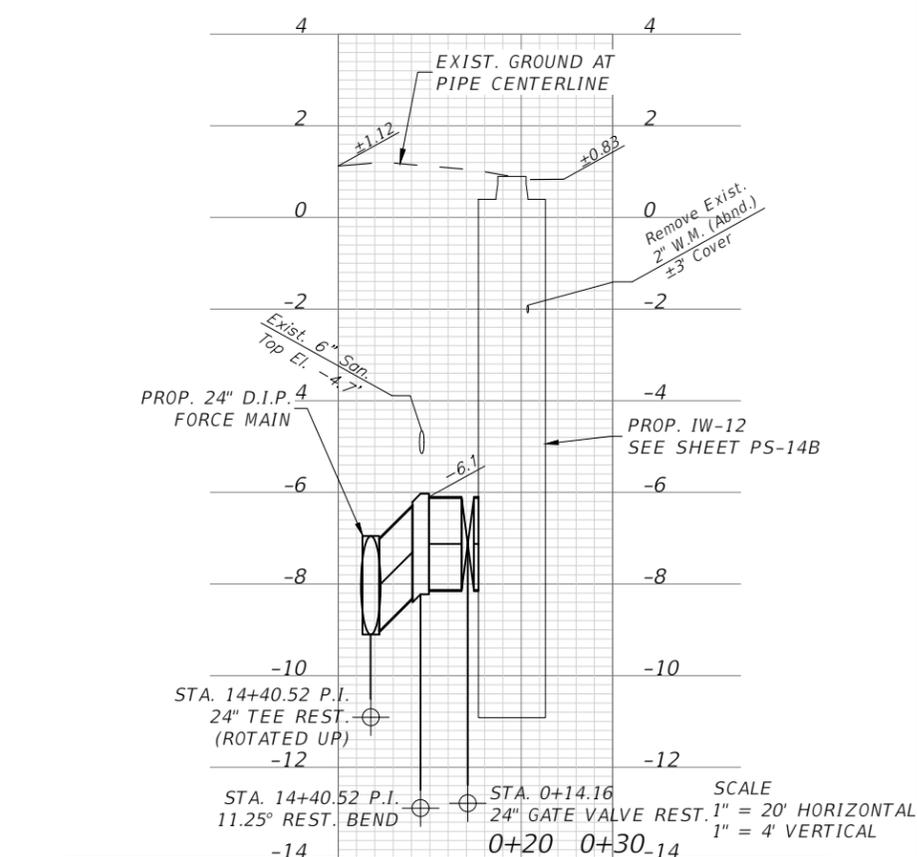
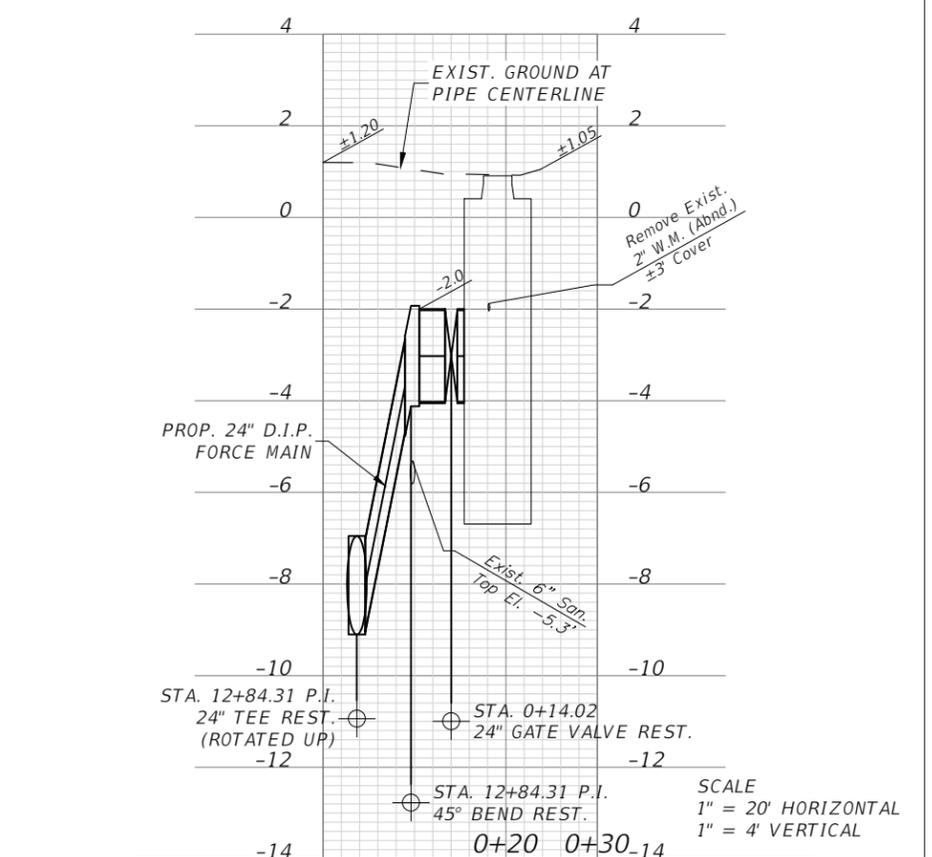
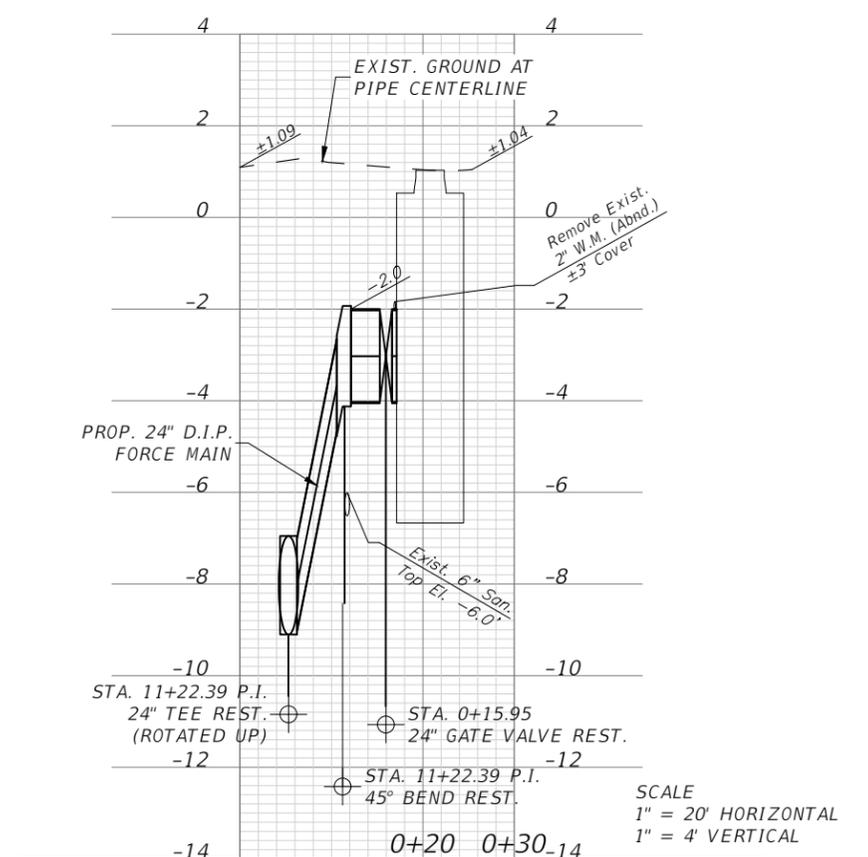
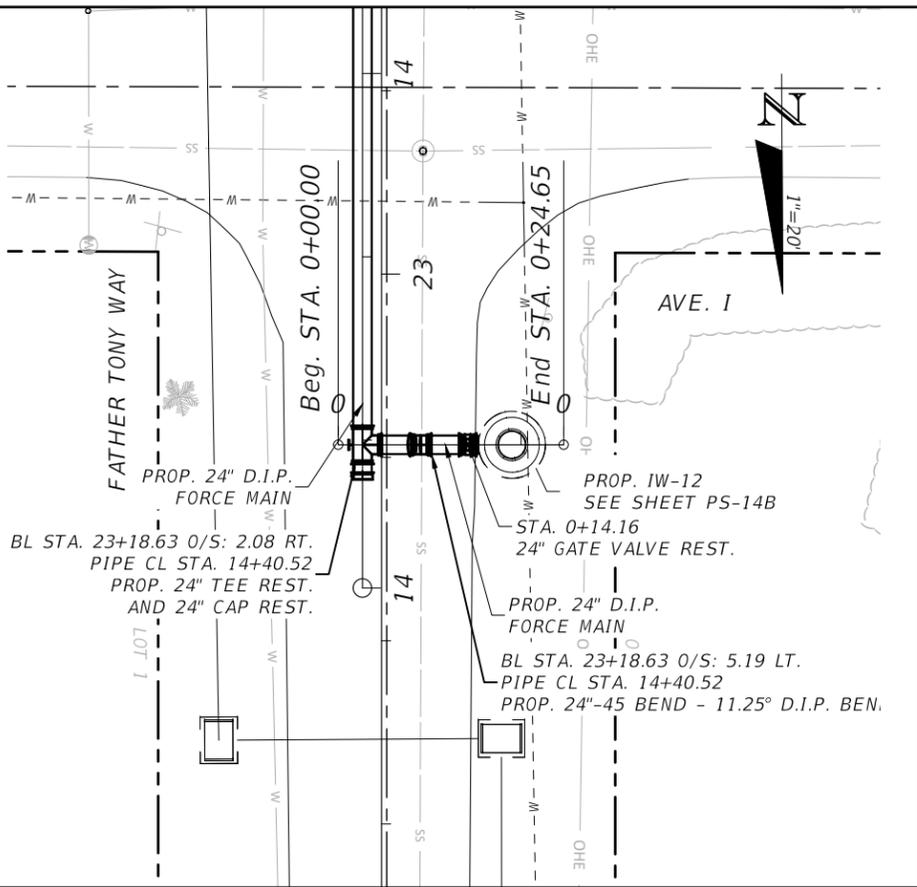
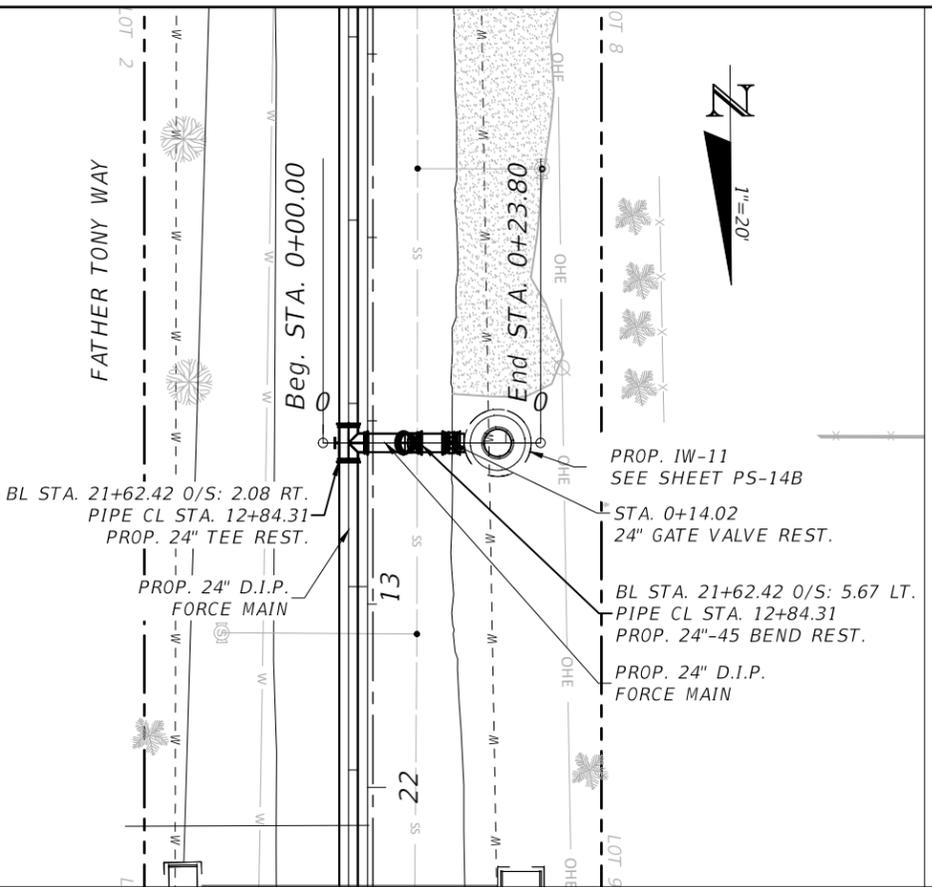
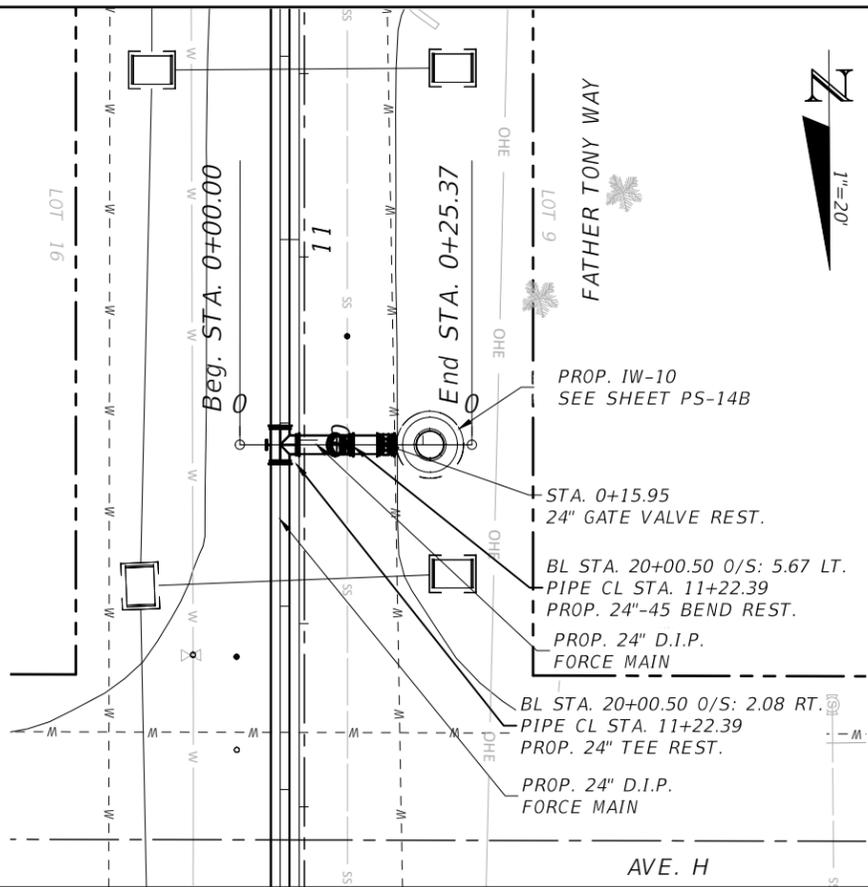


**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

INJECTION WELL PLAN & PROFILE

SHEET NO.  
**PS-12B**

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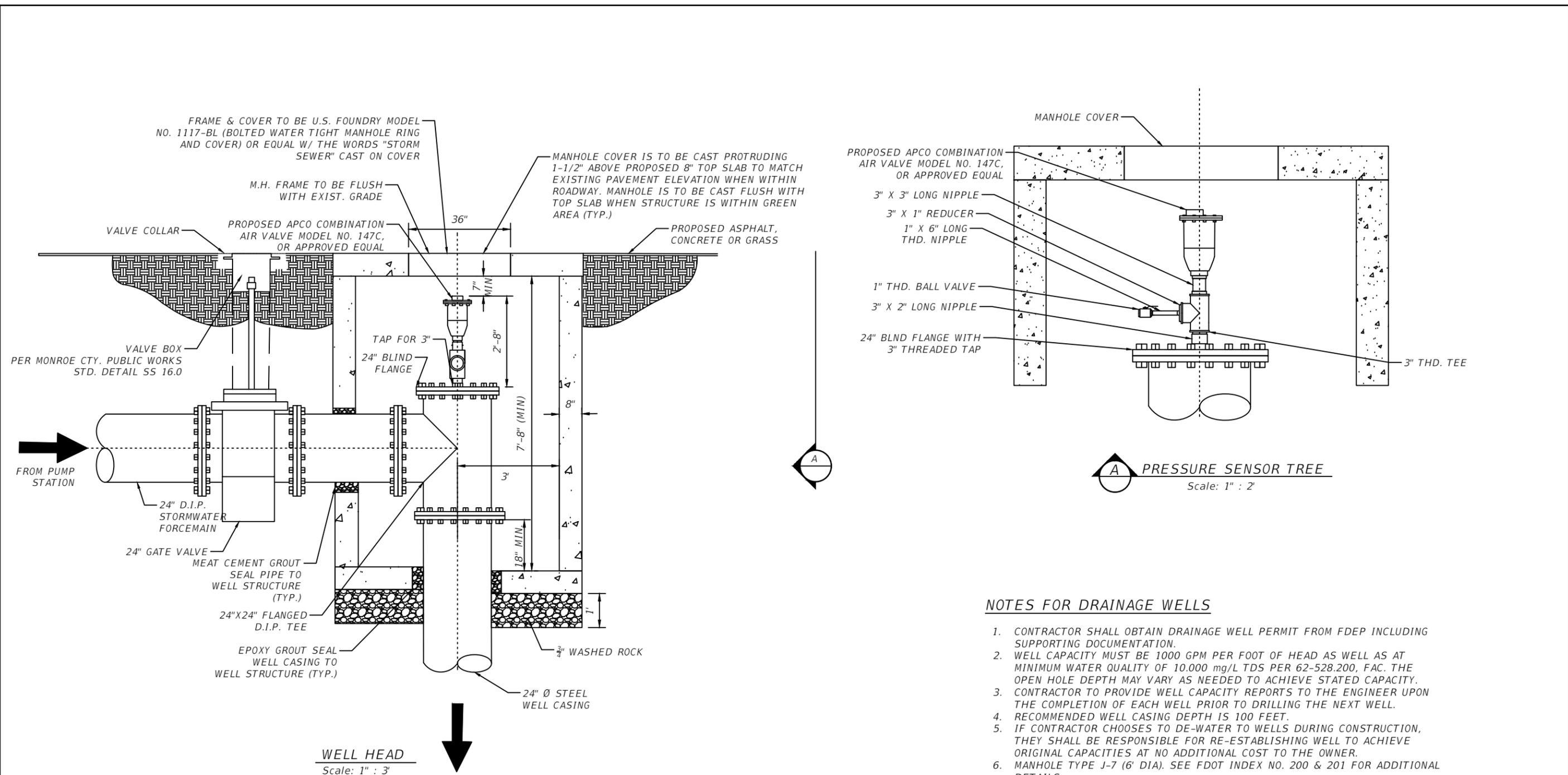


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

INJECTION WELL PLAN & PROFILE

SHEET NO.  
 PS-13B

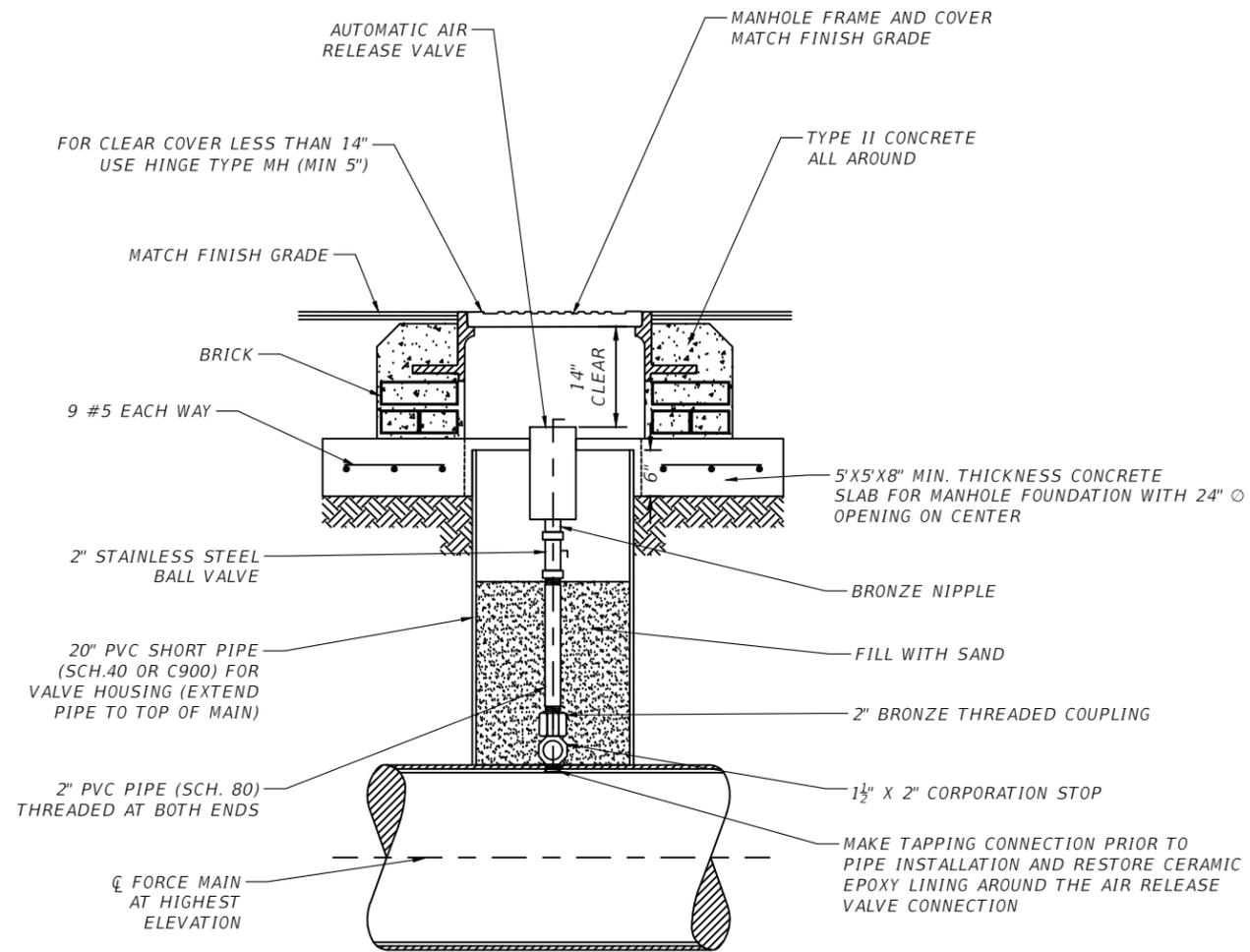
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**NOTES FOR DRAINAGE WELLS**

1. CONTRACTOR SHALL OBTAIN DRAINAGE WELL PERMIT FROM FDEP INCLUDING SUPPORTING DOCUMENTATION.
2. WELL CAPACITY MUST BE 1000 GPM PER FOOT OF HEAD AS WELL AS AT MINIMUM WATER QUALITY OF 10,000 mg/L TDS PER 62-528.200, FAC. THE OPEN HOLE DEPTH MAY VARY AS NEEDED TO ACHIEVE STATED CAPACITY.
3. CONTRACTOR TO PROVIDE WELL CAPACITY REPORTS TO THE ENGINEER UPON THE COMPLETION OF EACH WELL PRIOR TO DRILLING THE NEXT WELL.
4. RECOMMENDED WELL CASING DEPTH IS 100 FEET.
5. IF CONTRACTOR CHOOSES TO DE-WATER TO WELLS DURING CONSTRUCTION, THEY SHALL BE RESPONSIBLE FOR RE-ESTABLISHING WELL TO ACHIEVE ORIGINAL CAPACITIES AT NO ADDITIONAL COST TO THE OWNER.
6. MANHOLE TYPE J-7 (6' DIA). SEE FDOT INDEX NO. 200 & 201 FOR ADDITIONAL DETAILS.

REVISIONS				WERNER REINEFELD, P.E. P.E. LICENSE NUMBER 63042 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462	 	<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				PS-14B



**AUTOMATIC AIR  
RELEASE VALVE**  
Scale: 1" : 2'

**NOTES**

1. METALLIC THREADS TO BE COATED WITH BITUMASTIC COATING.
2. ON ARV'S FOR SEWARGE INSTALL 1" BLOW-OFF VALVE AND 1/2" QUICK-DISCONNECT BACKFLUSHING CONNECTION WITH SHUT-OFF VALVE.
3. INSTALL TAPPING SADDLE FOR THICKNESS CLASS D.I. MAINS 4" & SMALLER, PRESSURE CLASS S.I. MAINS 8" & SMALLER, OR WHEN MAINS IS PVC, HEDPE, OR AC PIPE.

REVISIONS

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SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

A.A.R.V. DETAIL

SHEET  
NO.

PS-15B

**ELECTRICAL REQUIREMENTS**

**1.0 BASIC ELECTRICAL REQUIREMENTS**

**1.1 INSTALLATION**

- A. INSTALL EQUIPMENT AT THE LOCATIONS SHOWN ON THE DRAWINGS FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS.
- B. COORDINATE INSTALLATION OF UNDERGROUND DUCTS AND CONDUITS WITH EXISTING UNDERGROUND UTILITIES. FIELD VERIFY ROUTING AND BURIAL DEPTH. DRAIN DUCTS AWAY FROM BUILDINGS TOWARD MANHOLES. LOW POINTS IN DUCT BANK RUNS ARE NOT ACCEPTABLE.

**2.0 RACEWAYS**

**2.1 LOCATION AND USE OF EACH TYPE OF CONDUIT AS FOLLOW:**

- A. USE RIGID CONDUIT FOR ABOVE GROUND EXPOSED INSTALLATIONS EXCEPT IN CORROSIVE AREAS WHERE PVC COATED RIGID GALVANIZED STEEL SHALL BE USED.
- B. USE GALVANIZED THREADED RIGID STEEL CONDUIT AS FOLLOWS:
  - 1) WHEREVER SPECIFICALLY CALLED FOR ON DRAWINGS.
  - 2) WHERE RACEWAY ELBOWS FROM SERVICE FEEDER STUB-UP.
  - 3) FOR UNDERGROUND WORK BEYOND BUILDINGS WHERE CONCRETE ENCASED PLASTIC CONDUITS HAVE NOT BEEN SPECIFIED. COAT BURIED GALVANIZED STEEL CONDUITS AND FITTINGS WITH TWO COATS OF CARBOLINE'S BITUMASTIC NO. 50 OR EQUAL.
- C. USE PLASTIC CONDUIT AS FOLLOWS:
  - 1) WHEN INSTALLED IN POURED CONCRETE SLABS OR WALLS.
  - 2) FOR UNDERGROUND WORK UNDER SLABS.
  - 3) IN DUCT BANKS OR, IF SPECIFICALLY CALLED FOR, IN TRENCHES. BACK-FILL TRENCHES WITH STRUCTURAL FILL 90% COMPACTED (PROCTOR DENSITY) AND RESOD TO ORIGINAL CONDITION.

**2.2 INSTALLATION**

- A. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL BENDS, FITTINGS, BOXES, AND SPECIALTIES WHICH MAY BE REQUIRED OR THE EXACT LOCATION OF CONDUITS. EXAMINE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF THE WORK AND PLAN IT ACCORDINGLY, FURNISHING SUCH FITTINGS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. ARRANGE CONDUIT RUNS TO CLEAR BEAMS, PIPES AND OTHER OBSTRUCTIONS AND AVOID INTERFERENCES WITH OTHER TRADES WORK. ANY CHANGES FROM LOCATIONS SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER.
- B. INSTALL CONDUITS PASSING THROUGH WALLS AND SLABS IN PVC SLEEVES. EXTEND SLEEVES THROUGH FULL CONCRETE THICKNESS AND PROVIDE 1/2- INCH CLEARANCE AROUND CONDUITS TO FACILITATE SEALING.
- C. SEAL ANY OPENING MADE IN SLABS OR WALLS TO PREVENT SMOKE OR FIRE SPREAD AND THE PASSAGE OF WATER. USE SEALING COMPOUND APPROVED FOR THE PURPOSE.
- D. EXCEPT WHERE BOXES, PANELS AND OTHER EQUIPMENT HAVE THREADED OPENINGS, MAKE CONDUIT CONNECTIONS AS FOLLOWS:

- 1) DOUBLE LOCKNUTS, ONE INSIDE AND ONE OUTSIDE.
- 2) PROVIDE CONDUIT HUB IN NEMA 4X ENCLOSURE.
- 3) PLACE GROUNDING BUSHING ON END OF CONDUIT IN ADDITION TO LOCKNUTS.

**3.0 IDENTIFICATION**

**A. COLOR CODE POWER CONDUCTORS AS FOLLOWS:**

- 1) 120/208 VOLT SYSTEM: WHITE-NEUTRAL, BLACK-PHASE A, BLUE-PHASE B, RED-PHASE C.
- 2) 277/480 VOLT SYSTEM: GRAY-NEUTRAL, YELLOW-PHASE A, BROWN-PHASE B, ORANGE-PHASE C.
- 3) BONDING CONDUCTOR GREEN.

**B. IDENTIFY FEEDERS, BRANCH CIRCUITS AND INSTRUMENTATION AND CONTROL WIRES AT TERMINATIONS, JUNCTION AND PULL BOXES.**

**4.0 GROUNDING**

- A. INSTALL GROUNDING AS SHOWN ON DRAWINGS. INSTALL IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. DO NOT USE CONDUCTORS SMALLER THAN SIZE AWG #12.
- B. CONNECTIONS SHALL BE MADE WITH THE EXOTHERMIC WELDING PROCESS USING EQUIPMENT MANUFACTURED ERICO PRODUCTS OR EQUAL.
- C. ACCESSIBLE CONNECTIONS SHALL BE MADE WITH BURUNDY, MULTIPLE BOLT CONNECTORS SPECIFICALLY APPROVED FOR THE APPLICATION.
- D. DO NOT EMBED GROUNDING CABLES DIRECTLY IN CONCRETE. USE SLEEVES WHEN PASSING CABLES THROUGH CONCRETE. BARE COPPER CABLES BURIED IN EARTH SHALL BE TINNED.

**GENERAL ELECTRICAL NOTES**

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND ALL LOCAL ORDINANCES. INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND O.S.H.A. REGULATIONS.
- 2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR AND ENGINEER.
- 3. CONTRACTOR SHALL GUARANTEE ALL ELECTRICAL WORK, INCLUDING PARTS AND LABOR, FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE BY OWNER AND ENGINEER.
- 4. CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
- 5. PRIOR TO COMMENCEMENT OF WORK, VERIFY MEASUREMENTS AT SITE. SUBMIT DISCREPANCIES AND DIFERENCES TO ENGINEER FOR CONSIDERATION AND DECISION BEFORE PROCEEDING.
- 6. VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION OR INSTALLATION.
- 7. OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATIONS.
- 8. PROVIDE AN ACCURATE LAYOUT, GRADES AND ELEVATIONS; TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.
- 9. THE ELECTRICAL SERVICE INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER COMPANY. CONTRACTOR SHALL COORDINATE SERVICE REQUIREMENTS WITH THE UTILITY COMPANY AND PROVIDE ACCORDINGLY. THE FPL CONTACT PERSON IS : JOEL GARCIA (305) 215-1209
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHERS AS WELL AS PROVIDING TEMPORARY POWER.
- 11. ALL MATERIAL SHALL BE NEW AND OF AMERICAN MANUFACTURER AND BEAR THE UNDERWRITER'S LABORATORY AND UNION LABELS WHERE APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULE OF MATERIAL.
- 12. ALL EQUIPMENT INSTALLED SHALL BE OF MANUFACTURER AND TYPE SPECIFIED. SUBMIT SHOP DRAWINGS AND PRODUCT DATA WITH ALL PERTINENT DATA AS SPECIFIED OR SCHEDULED. SUBMITTALS WITH INCOMPLETE INFORMATION WILL NOT BE REVIEWED UNTIL SUBMITTAL IS COMPLETE.
- 13. VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS ETC., BEFORE ORDERING ANY EQUIPMENT AND PRIOR TO ROUGHING-IN FOR EQUIPMENT TO BE SUPPLIED BY OTHERS. NOTIFY ENGINEER OF ANY CONFLICTS.
- 14. ALL WIRING SHALL BE IN RACEWAY.
  - A. FOR EXTERIOR LOCATIONS RACEWAYS: BELOW GRADE - SCHEDULE 40 PVC. WITH 2'- 6" COVER (2'-6" FOR SERVICE).
  - B. SEALING FITTINGS SHALL BE INSTALLED AS SHOWN AND WHERE REQUIRED BY THE NEC.
- 15. CONTRACTOR SHALL COORDINATE THE PROPOSED CONTROL PANEL ENCLOSURES & THE REST OF ELECTRICAL DEVICES WITH THE CONCRETE PAD DIMENSIONS TO MATCH WITH FUTURE ARCHITECTURAL ENCLOSURE REQUESTED BY MIAMI BEACH PUBLIC WORK DEPARTMENT.

- 15. CONTRACTOR SHALL COORDINATE THE PROPOSED CONTROL PANEL ENCLOSURES & THE REST OF ELECTRICAL DEVICES WITH THE CONCRETE PAD DIMENSIONS TO MATCH WITH FUTURE ARCHITECTURAL ENCLOSURE REQUESTED BY MIAMI BEACH PUBLIC WORK DEPARTMENT.
- 16. ALL CIRCUITS TO CARRY A FULL GROUND WIRE PER N.E.C. ARTICLE 250.
- 17. MINIMUM SHORT CIRCUIT RATING (SCR) OF THE ELECTRICAL PANEL SHALL BE 65 KA MIN. PANEL (SCR) BE NEXT STANDARD VALUE ABOVE THE ONE PROVIDED BY FPL AT TRANSFORMER SECONDARY.
- 18- PUMP CONTROL PANEL SHALL BE MANUFACTURED AND LABELED PER UL508.
- 19- SUPPORTS SHALL MEET ASCE 7-93 SECTION 6 WIND LOADS.
- 20- WET WELL IS A CLASS I DIVISION I GROUP D ENVIRONMENT (PER NFPA 820-TABLE 4.2 ROW 16a) AS SUCH, ANY ELECTRICAL EQUIPMENT WITH IT IS RATED FOR CLASS 1, DIVISION I, GROUP D (A PRIMARY EXAMPLE ARE THE PUMP ELECTRIC MOTOR, RATED FOR CLASS 1, DIVISION I, GROUP D). THE PUMP MOTOR CONNECTION AND CONTROL JUNCTION BOXES ARE NOT A CLASSIFIED ENVIRONMENT, HOWEVER IT HAS SEAL FITTINGS RATED FOR CLASS 1, DIVISION I, GROUP D ENVIRONMENTS INSTALLED ON CONDUITS BETWEEN IT AND THE WET WELL..
- 21- MAIN DISCONNECT SWITCH SIZED TO MATCH MAIN CIRCUIT BREAKER AND IN A PAD LOCKABLE SERVICE RATED NEMA 4X & 16 316 STAINLESS STEEL ENCLOSURE. TOP SHALL NOT BE HIGHER THAN THE TOP OF THE CABINET.
- 22- CONTROL PANEL ENCLOSURES SHALL INCORPORATE A TAMPER/INTRUSION SWITCH (DC) THAT ACTIVATES AN ALARM TO THE RTU WHENEVER THE PANELS OPENED.
- 23- MAXIMUM GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS PER ELECTRODE. SEE NEC 250.56.

**REVISIONS**

DATE	DESCRIPTION	DATE	DESCRIPTION

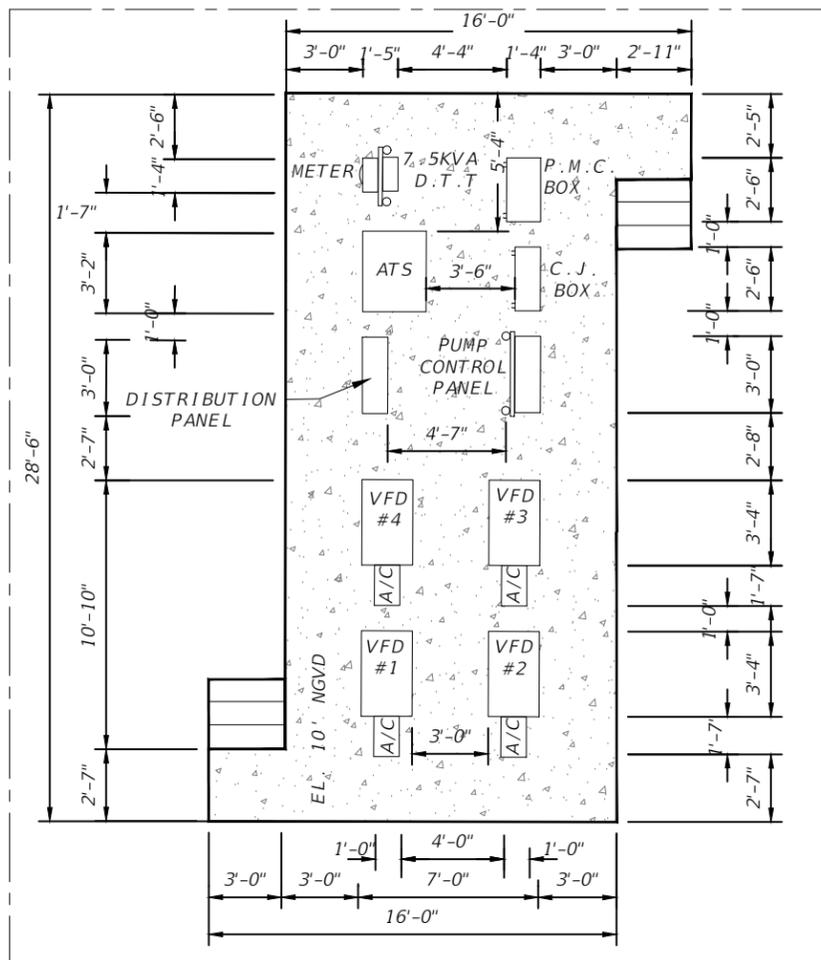
A&P Consulting Transportation Engineers Corp.  
 8935 N.W. 35th Lane, Suite 200  
 Miami, FL 33172  
 (305) 592-7283 / fax: (305) 593-1594  
 CA No. : EB-0007797  
 Eduardo L. Martinez, P.E. No. 52023



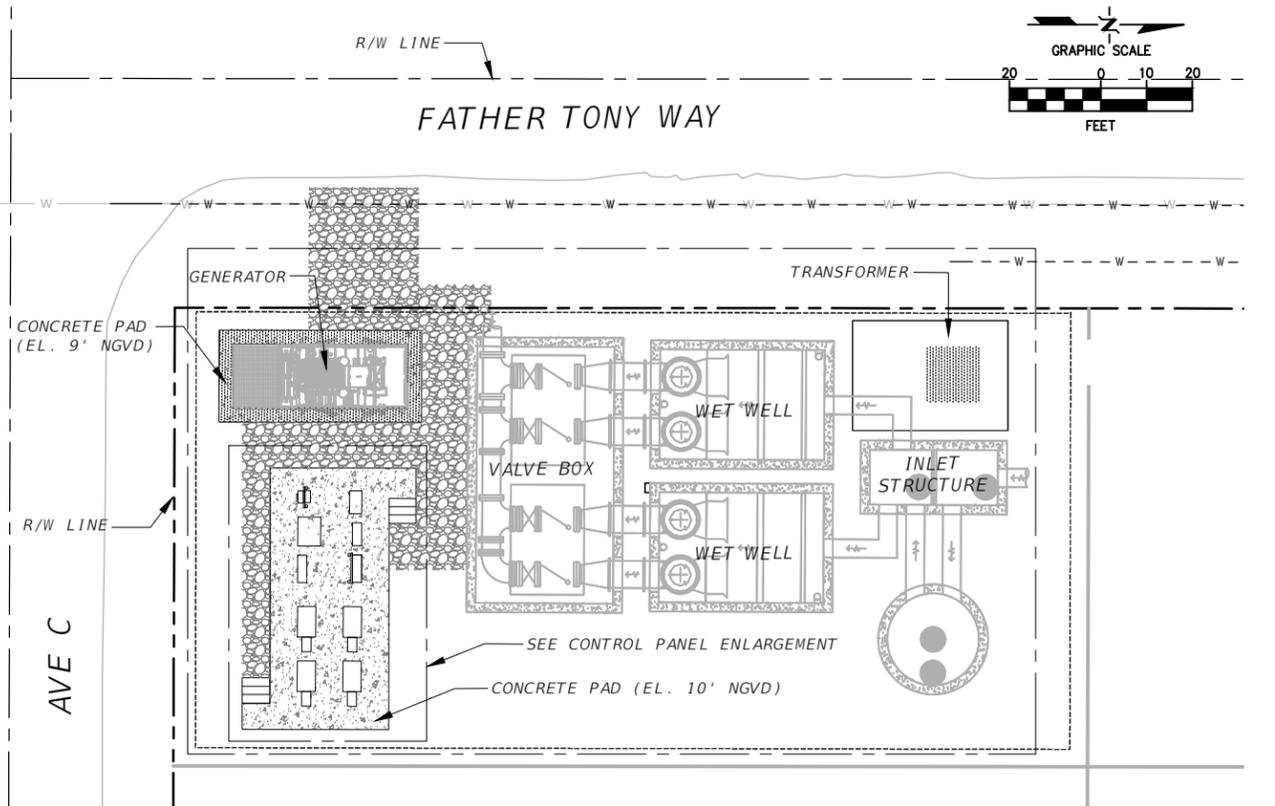
**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING  
 GENERAL ELECTRICAL NOTES AND ELECTRICAL REQUIREMENTS

SHEET NO.  
 E-1B

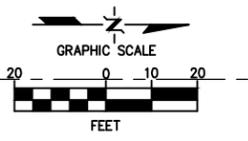
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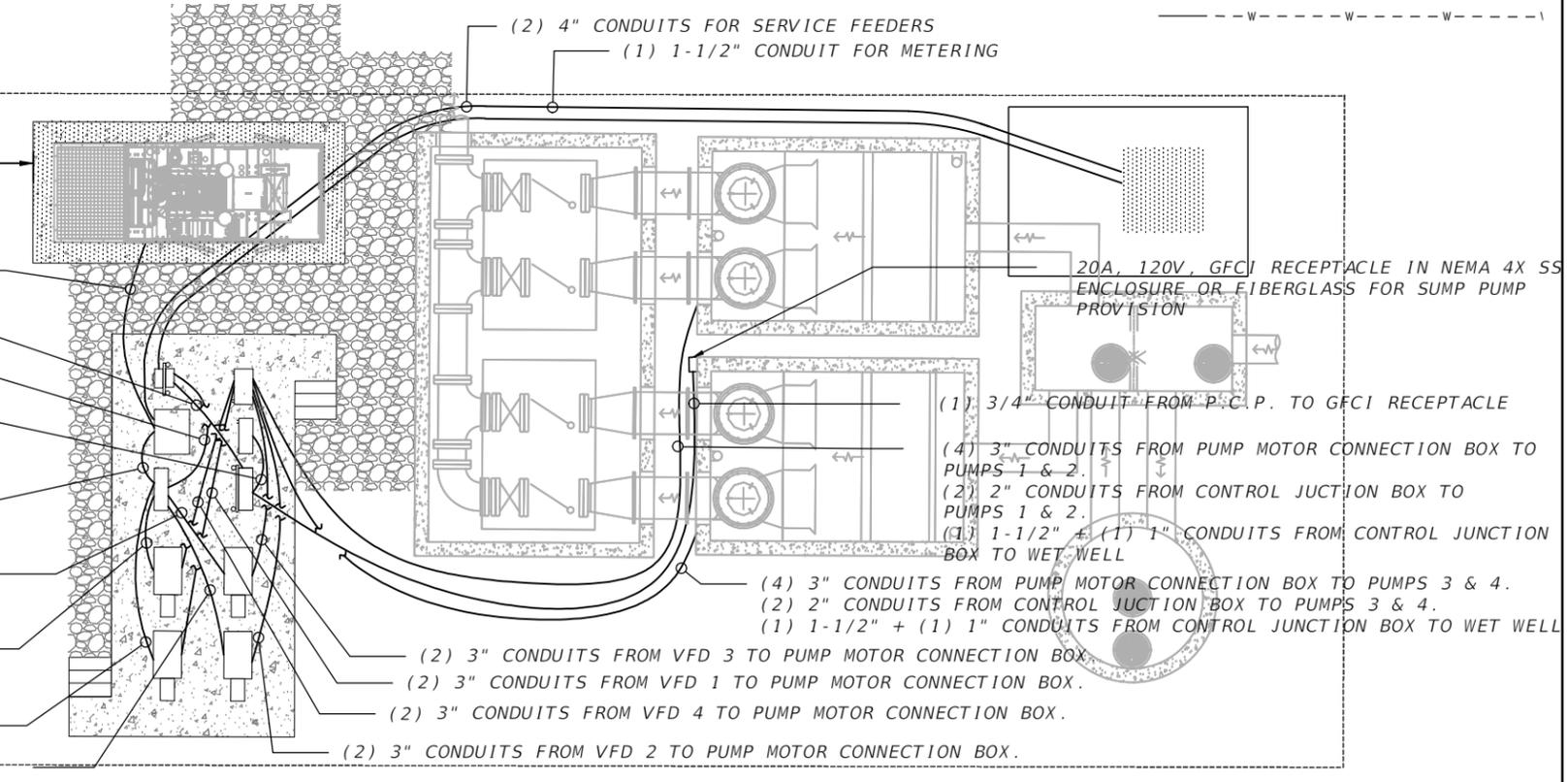
**CONTROL PANEL ENLARGEMENT**  
SCALE: NTS



**BIG PINE KEY PROPOSED ELECTRICAL SITE PLAN**  
SCALE 1"=20'



- (2) 4" CONDUITS FOR GENERATOR FEEDERS
- (1) 3/4" CONDUIT FROM D.T.T. TO P.C.P. (120/240V)
- (1) 3/4" CONDUIT FROM DISTRIBUTION TO PANEL D.T.T.
- (4) 1" PVC CONDUIT FOR MOTOR PILOT WIRES + (2) 1" PVC CONDUIT FOR LEVEL TRANSDUCER CABLES + (2) 1" PVC CONDUIT FOR FLOAT SWITCHES + (2) 1" SPARE CONDUIT. FROM PUMP CONTROL PANEL TO CONTROL JUNCTION BOX.
- (2) 4" CONDUITS FOR DISTRIBUTION PANEL FEEDERS
- (2) 3" CONDUITS FOR VFD 3 POWER FEEDER FROM DISTRIBUTION PANEL
- (2) 3" CONDUITS FOR VFD 4 POWER FEEDER FROM DISTRIBUTION PANEL
- (2) 3" CONDUITS FOR VFD 1 POWER FEEDER FROM DISTRIBUTION PANEL
- (2) 3" CONDUITS FOR VFD 2 POWER FEEDER FROM DISTRIBUTION PANEL



**ELECTRICAL WIRING ENLARGEMENT**  
NTS

REVISIONS				A&P Consulting Transportation Engineers Corp. 8935 N.W. 35th Lane, Suite 200 Miami, FL 33172 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Eduardo L. Martinez, P.E. No. 52023	 	SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY) MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.  E-2B
DATE	DESCRIPTION	DATE	DESCRIPTION				
						PROPOSED ELECTRICAL SITE PLAN	

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**EMERGENCY OPERATION  
ELECTRICAL LOAD CALCULATION**

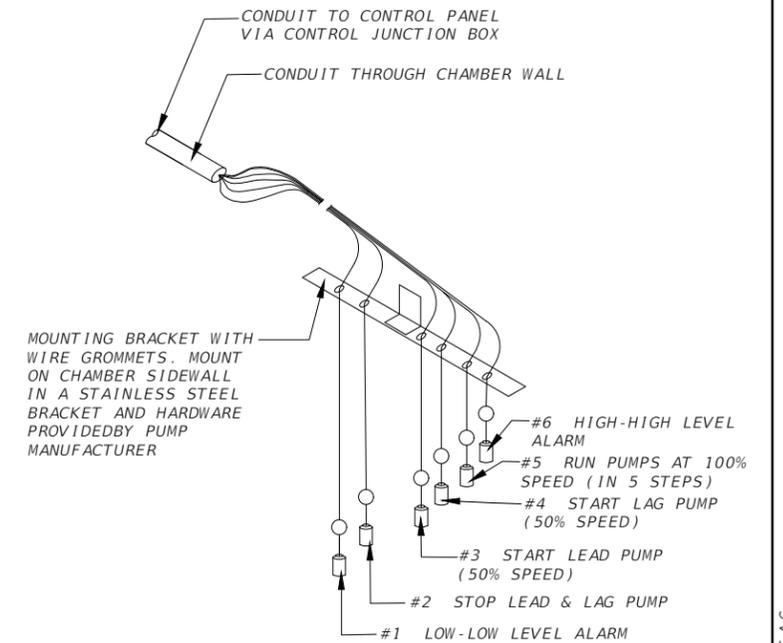
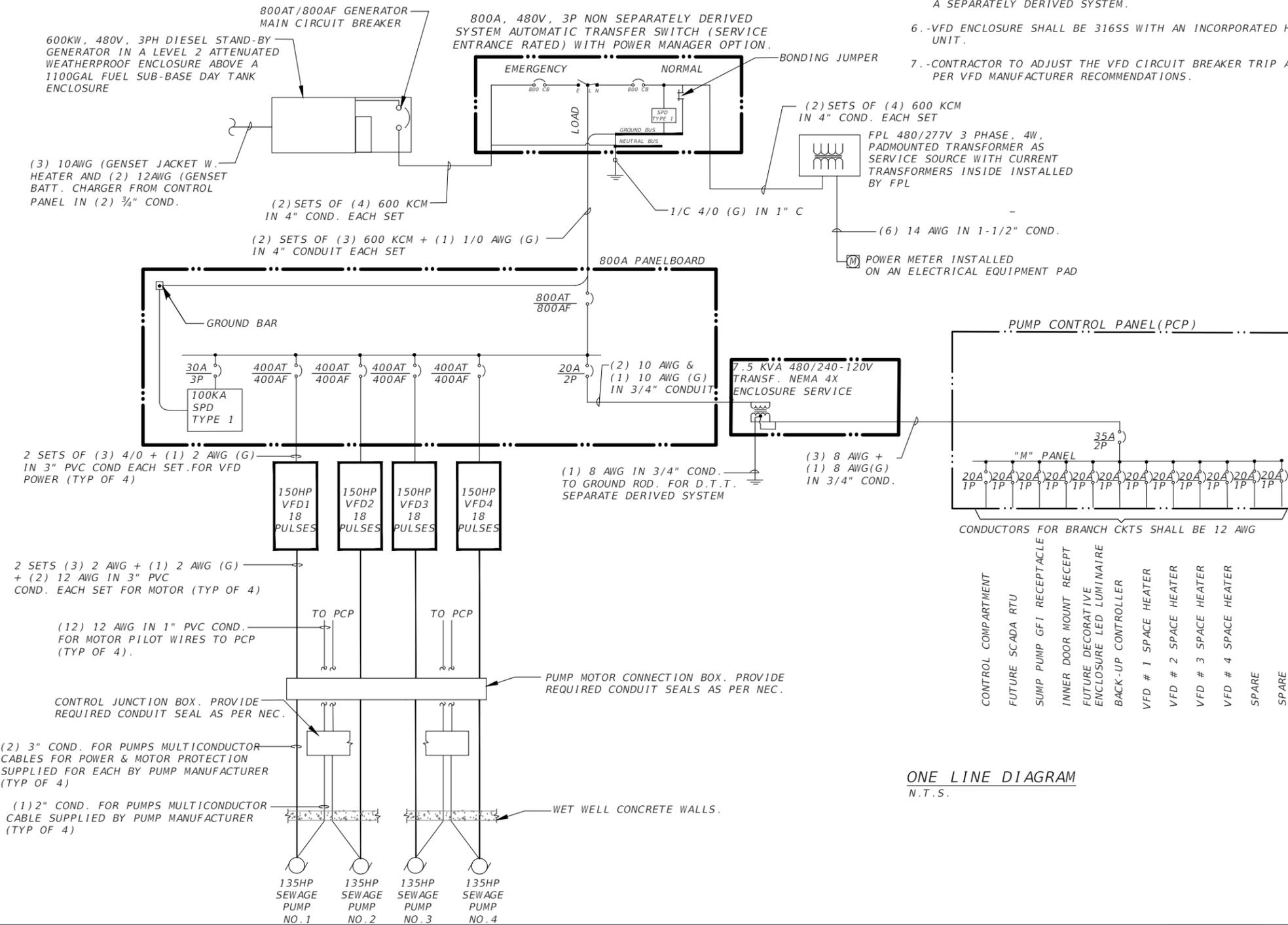
(4) 135HP, LOW SPEED = 688A  
PUMP MOTOR (4X172A)  
MISCELLANEOUS LOAD = 16A  
(VIA 7.5KVA D.T.T.)  
25% OF LARGEST MOTOR = 43A  
TOTAL = 747A

**NORMAL OPERATION  
ELECTRICAL LOAD CALCULATION**

(4) 135HP, LOW SPEED = 688A  
PUMP MOTOR (4X172A)  
MISCELLANEOUS LOAD = 16A  
(VIA 7.5KVA D. TT)  
25% OF LARGEST MOTOR = 43A  
TOTAL = 747A

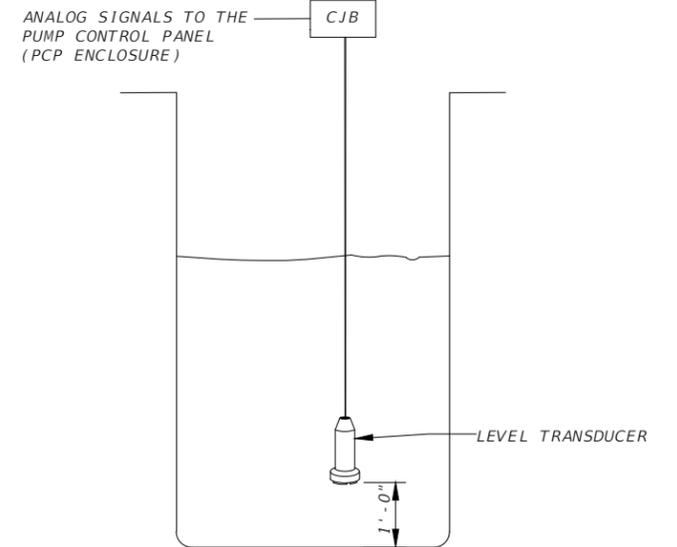
**NOTES:**

- CONTRACTOR TO PROVIDE CONTROL PANEL SHOP DRAWINGS SHOWING WIRING DIAGRAM WITH ALL POWER AND CONTROL INTERCONNECTIONS.
- PROVIDE SHOP DRAWING FOR ALL DEVICES AND ELECTRICAL MATERIALS.
- SEAL FITTING SHALL COMPLY WITH NEC. 501 FOR CLASS 1, DIVISION 1 LOCATIONS.
- EQUIPMENT MANUFACTURER SHALL SUPPLY A MINIMUM OF 100' PER EACH PUMP MOTOR & PILOT CABLES AND LEVEL TRANSDUCER & LEVEL SWITCH CABLES.
- EMERGENCY GENERATOR AND MANUAL TRANSFER SWITCH ARE NOT A SEPARATELY DERIVED SYSTEM.
- VFD ENCLOSURE SHALL BE 316SS WITH AN INCORPORATED HVAC UNIT.
- CONTRACTOR TO ADJUST THE VFD CIRCUIT BREAKER TRIP AS PER VFD MANUFACTURER RECOMMENDATIONS.



**FLOAT LEVEL SWITCHES AT WET WELL# 1&2**

- NOTES:**
- (6) FLOAT LEVEL SWITCHES SHALL BE INSTALLED AT EACH WET WELL. FLOAT LEVEL SWITCHES WILL BE USED AS A BACK-UP OPERATION
  - FOR FLOAT LEVEL SWITCH ELEVATIONS INSIDE THE WET WELL REFER TO PS-05



NOTE: SEE MECHANICAL DRAWINGS FOR PROPOSED ELEVATIONS

**SENSING DEVICE AT WET WELL # 1&2**  
N.T.S.

REVISIONS	
DATE	DESCRIPTION

A&P Consulting Transportation Engineers Corp.  
8935 N.W. 35th Lane, Suite 200  
Miami, FL 33172  
(305) 592-7283 / fax: (305) 593-1594  
CA No. : EB-0007797  
Eduardo L. Martinez, P.E. No. 52023



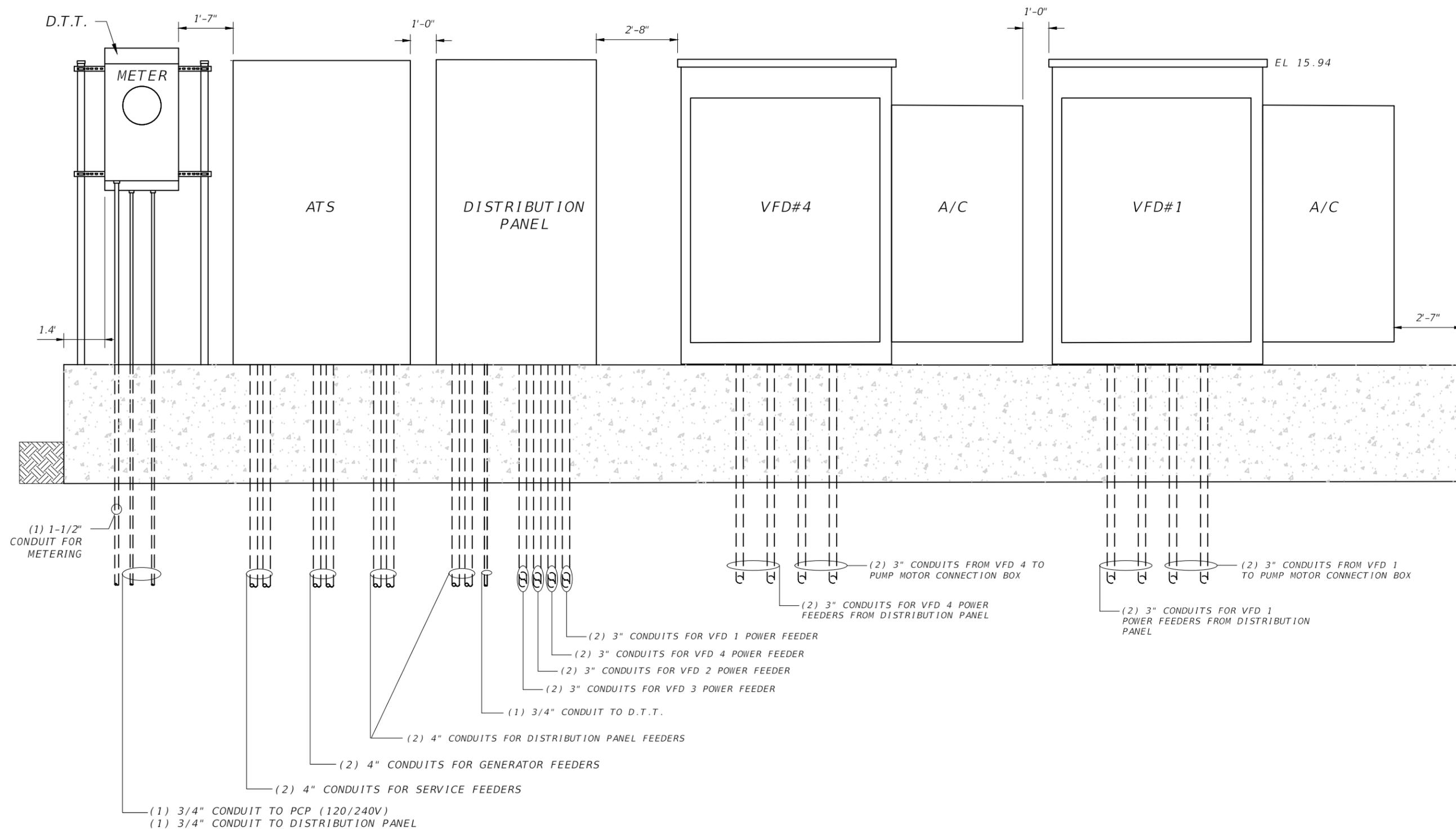
**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

ONE LINE DIAGRAM

SHEET NO.

E-3B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

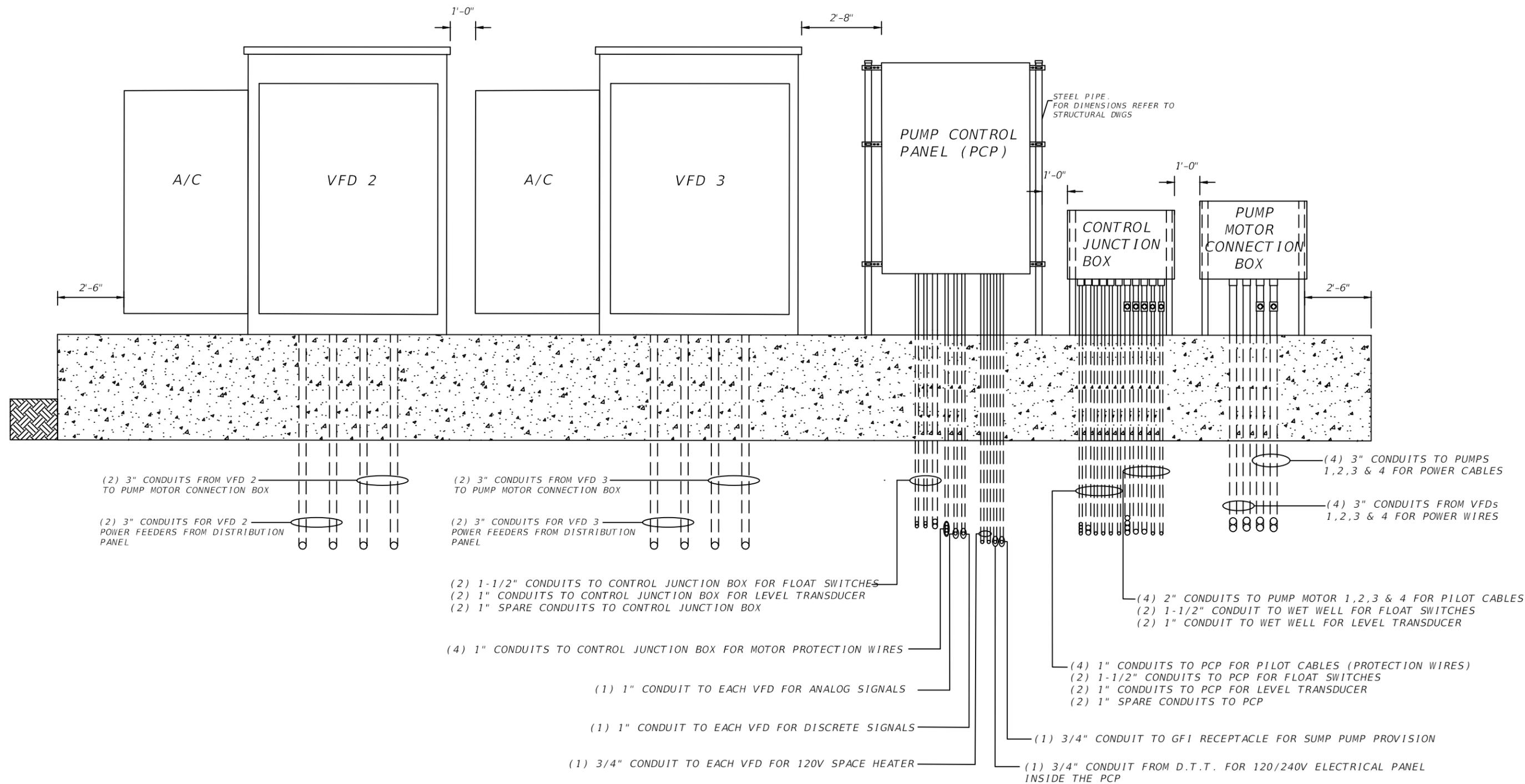


NOTE:  
 -CONTRACTOR SHALL COORDINATE WITH CONTROL PANEL MANUFACTURER TO VERIFY IF IS REQUIRED TO INSTALL ADDITIONAL VERTICAL STRUCTURAL SUPPORTS IN BETWEEN CONTROL PANEL ENCLOSURES TO COMPLY WITH THE 180 MPH WIND LOAD.

**PUMP CONTROL PANEL (NORTH VIEW)**  
 N.T.S.

REVISIONS				A&P Consulting Transportation Engineers Corp. 8935 N.W. 35th Lane, Suite 200 Miami, FL 33172 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Eduardo L. Martinez, P.E. No. 52023			<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					E-4B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:  
 1-CONTRACTOR SHALL COORDINATE WITH CONTROL PANEL MANUFACTURER TO VERIFY IF IS REQUIRED TO INSTALL ADDITIONAL VERTICAL STRUCTURAL SUPPORTS BETWEEN ENCLOSURES TO COMPLY WITH THE 180 MPH WIND LOAD.

NTS

REVISIONS				A&P Consulting Transportation Engineers Corp. 8935 N.W. 35th Lane, Suite 200 Miami, FL 33172 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Eduardo L. Martinez, P.E. No. 52023			<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					E-5B
PUMP CONTROL PANEL								

Evelin Ramos

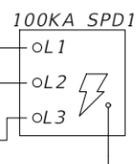
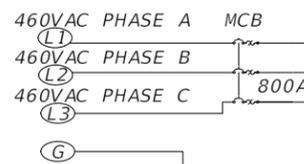
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P:\Monroe Co - Twin Lakes & Sands Community Proposal\CAD Files\Big Pine Key\2-Sheets\E-5B.dwg

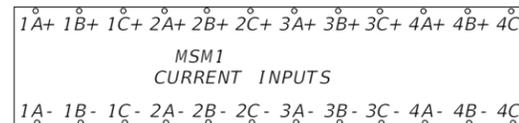
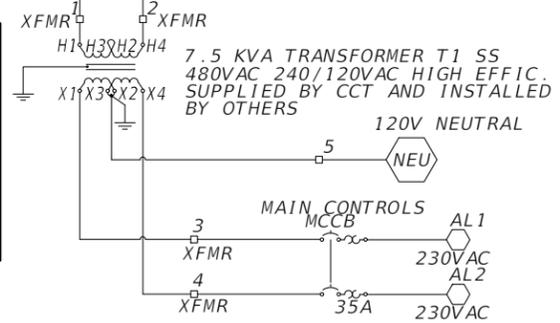
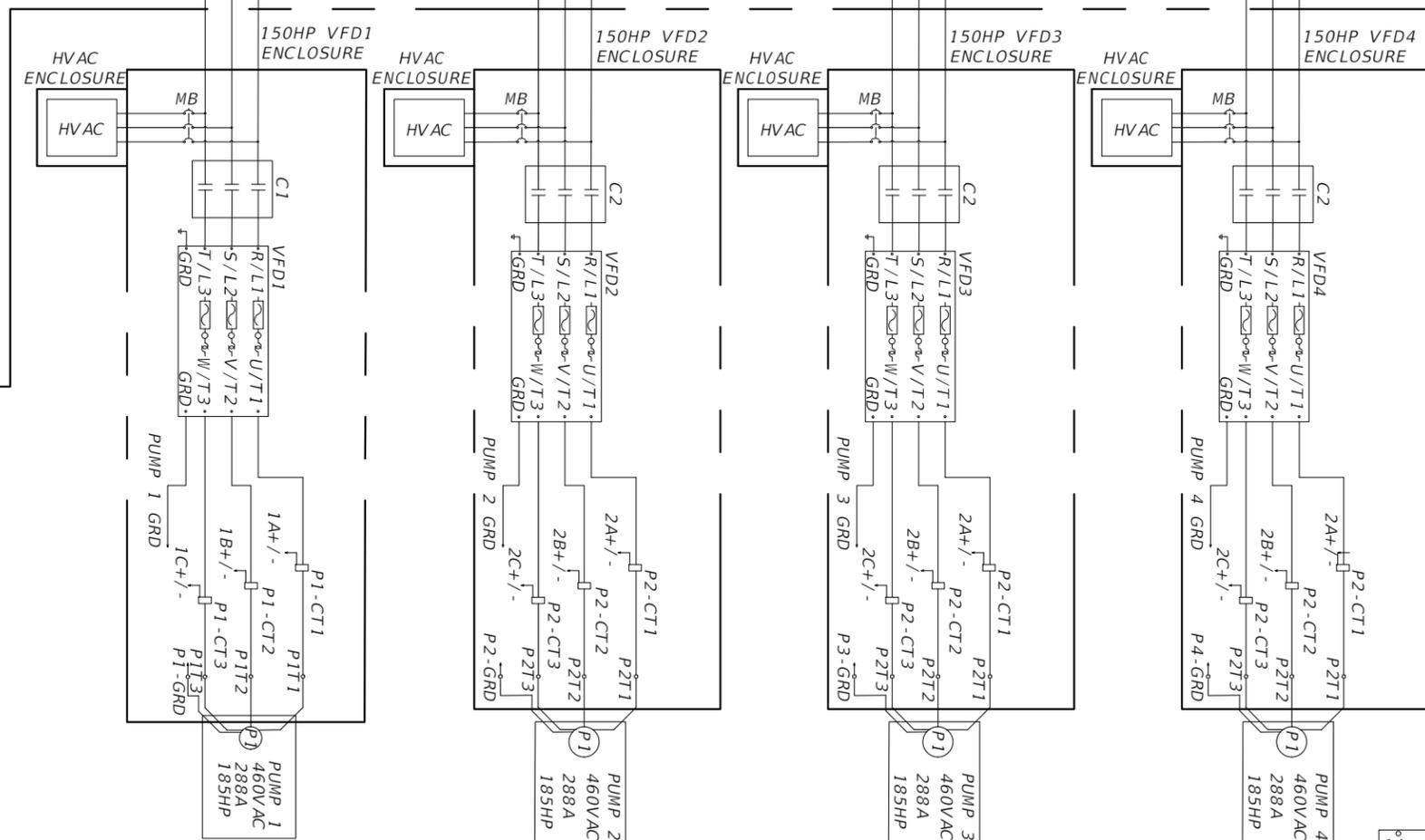
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PANELBOARD ENCLOSURE

460VAC 3 PHASE 3W + G FROM ATS



NOTE:  
MAIN BREAKER SHALL  
HAVE TERMINAL LOCKS  
FOR (2) SETS OF (3)  
600KCM + (1) 1/0 AWG (G)



NOTE:  
CONTROL SCHEMATIC INDICATES MINIMUM REQUIREMENTS AND IT SHALL BE REVISED AND  
SUPPLEMENTED BY MANUFACTURER TO PROVIDE ALL NECESSARY FEATURES FOR A COMPLETE  
WORKING MOTOR SYSTEM.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

A&P Consulting Transportation Engineers Corp.  
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(305) 592-7283 / fax: (305) 593-1594  
CA No. : EB-0007797  
Eduardo L. Martinez, P.E. No. 52023



SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

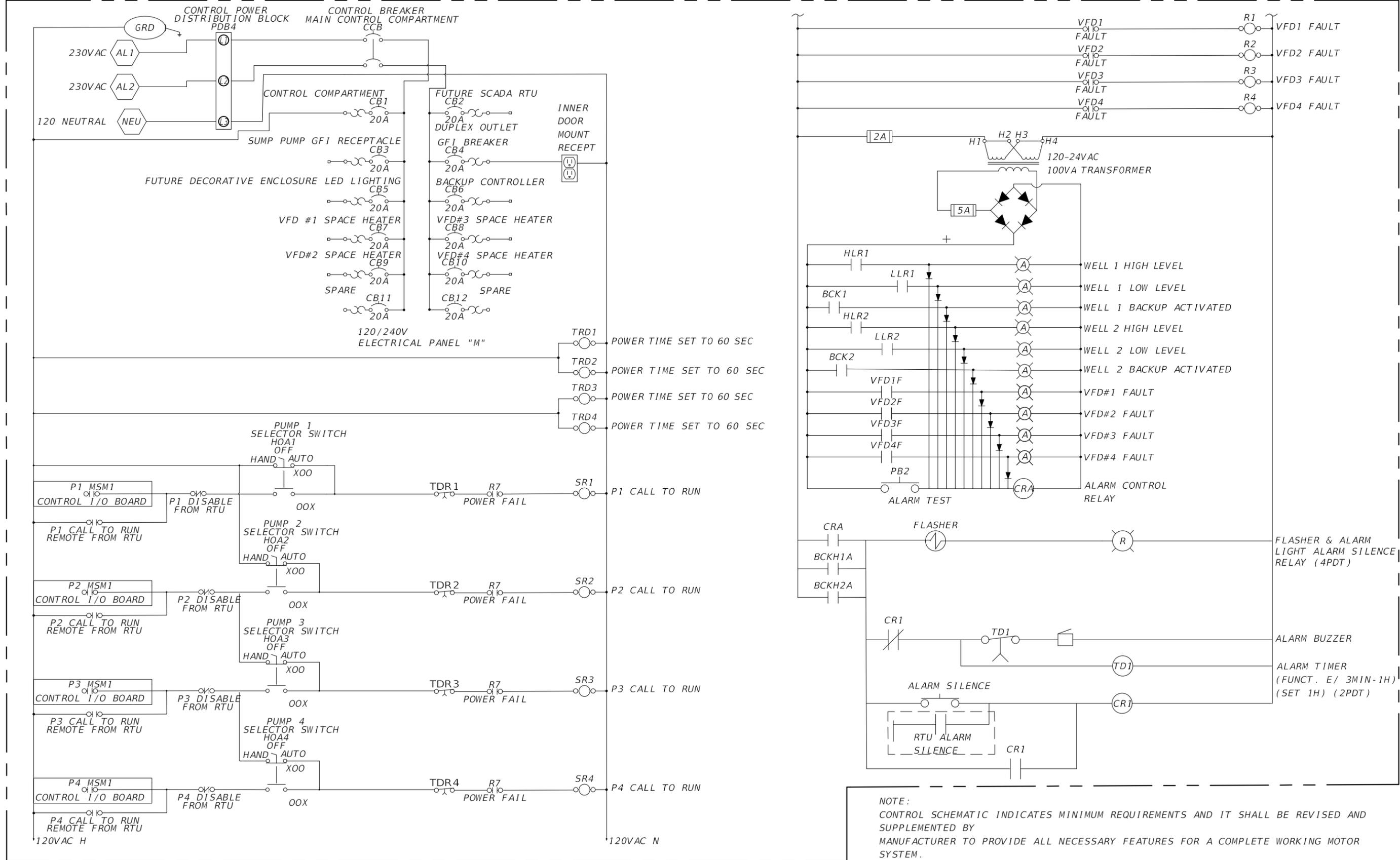
CONTROL PANEL ELECTRICAL SCHEMATIC (1)

SHEET NO.

E-6B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CONTROL & FUTURE SCADA RTU ENCLOSURE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

A&P Consulting Transportation Engineers Corp.  
 8935 N.W. 35th Lane, Suite 200  
 Miami, FL 33172  
 (305) 592-7283 / fax: (305) 593-1594  
 CA No. : EB-0007797  
 Eduardo L. Martinez, P.E. No. 52023



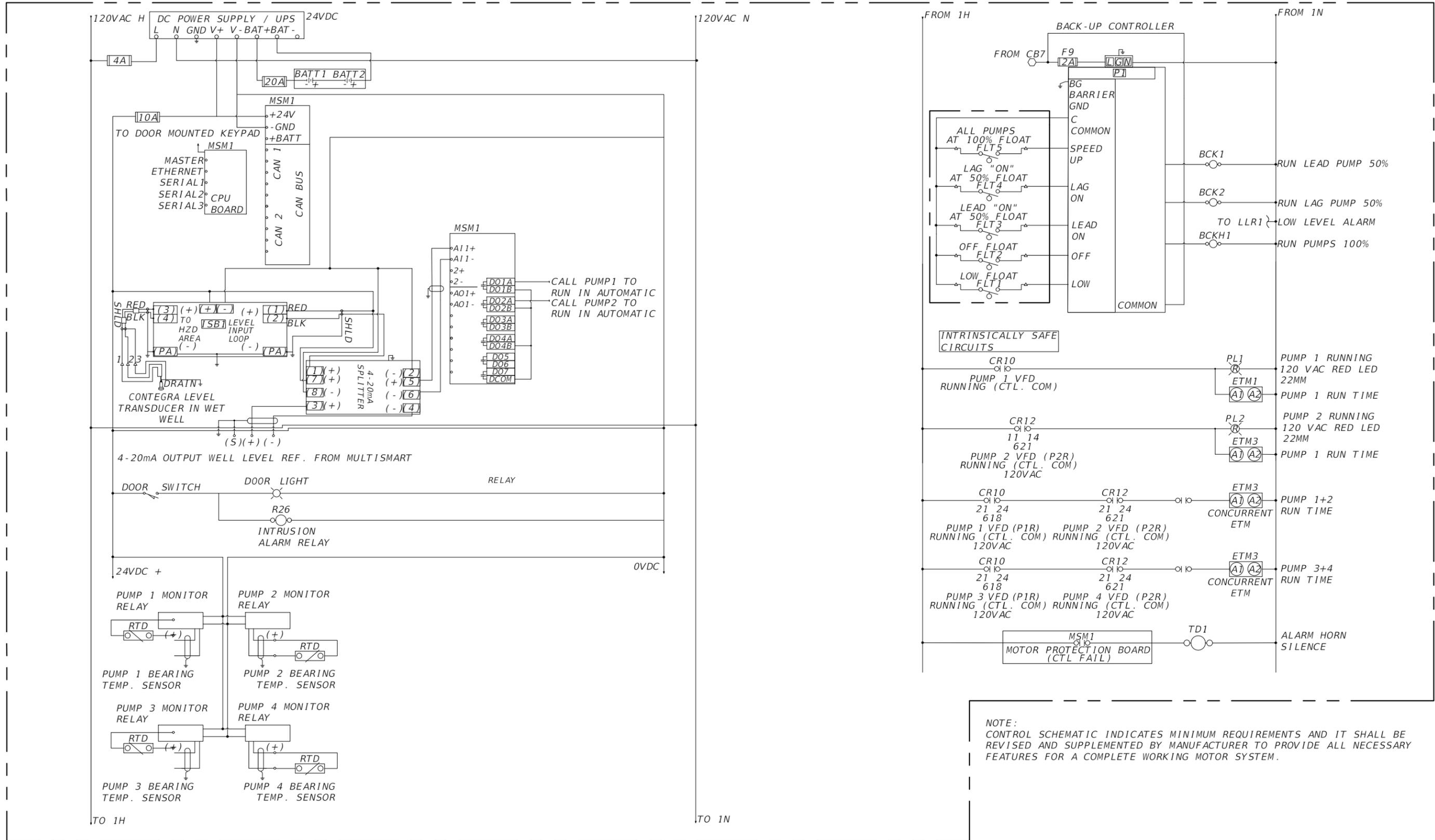
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

CONTROL PANEL ELECTRICAL SCHEMATIC (2)

SHEET NO.  
 E-7B

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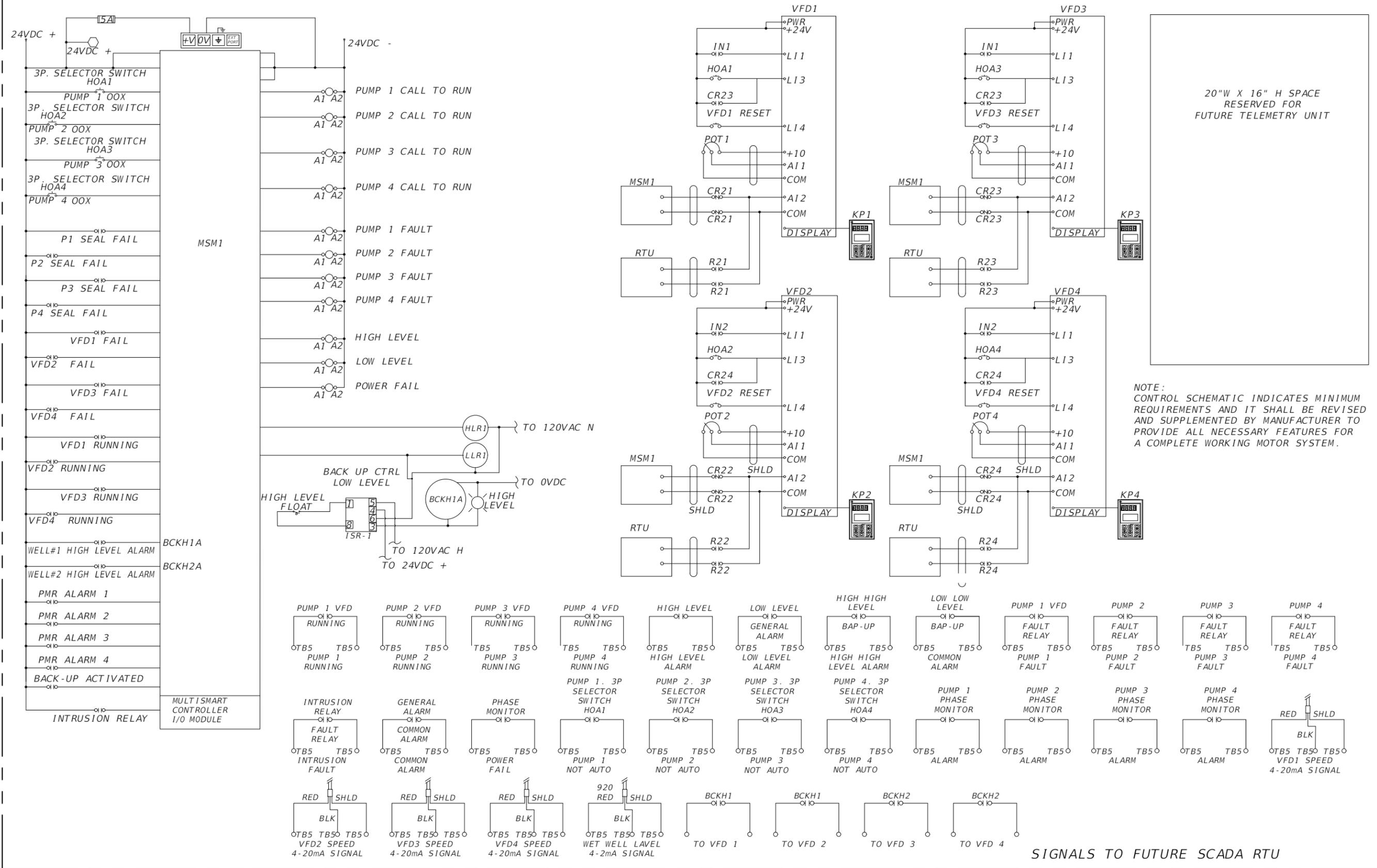
CONTROL & FUTURE SCADA RTU ENCLOSURE



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

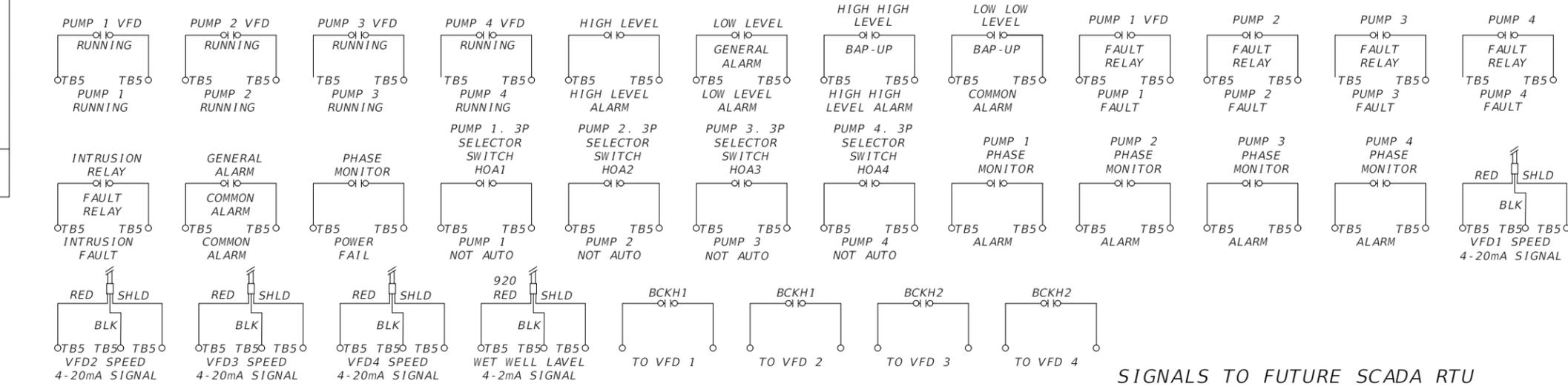
REVISIONS				A&P Consulting Transportation Engineers Corp. 8935 N.W. 35th Lane, Suite 200 Miami, FL 33172 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Eduardo L. Martinez, P.E. No. 52023	 	<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				E-8B
						CONTROL PANEL ELECTRICAL SCHEMATIC (3)	

CONTROL & FUTURE SCADA RTU ENCLOSURE



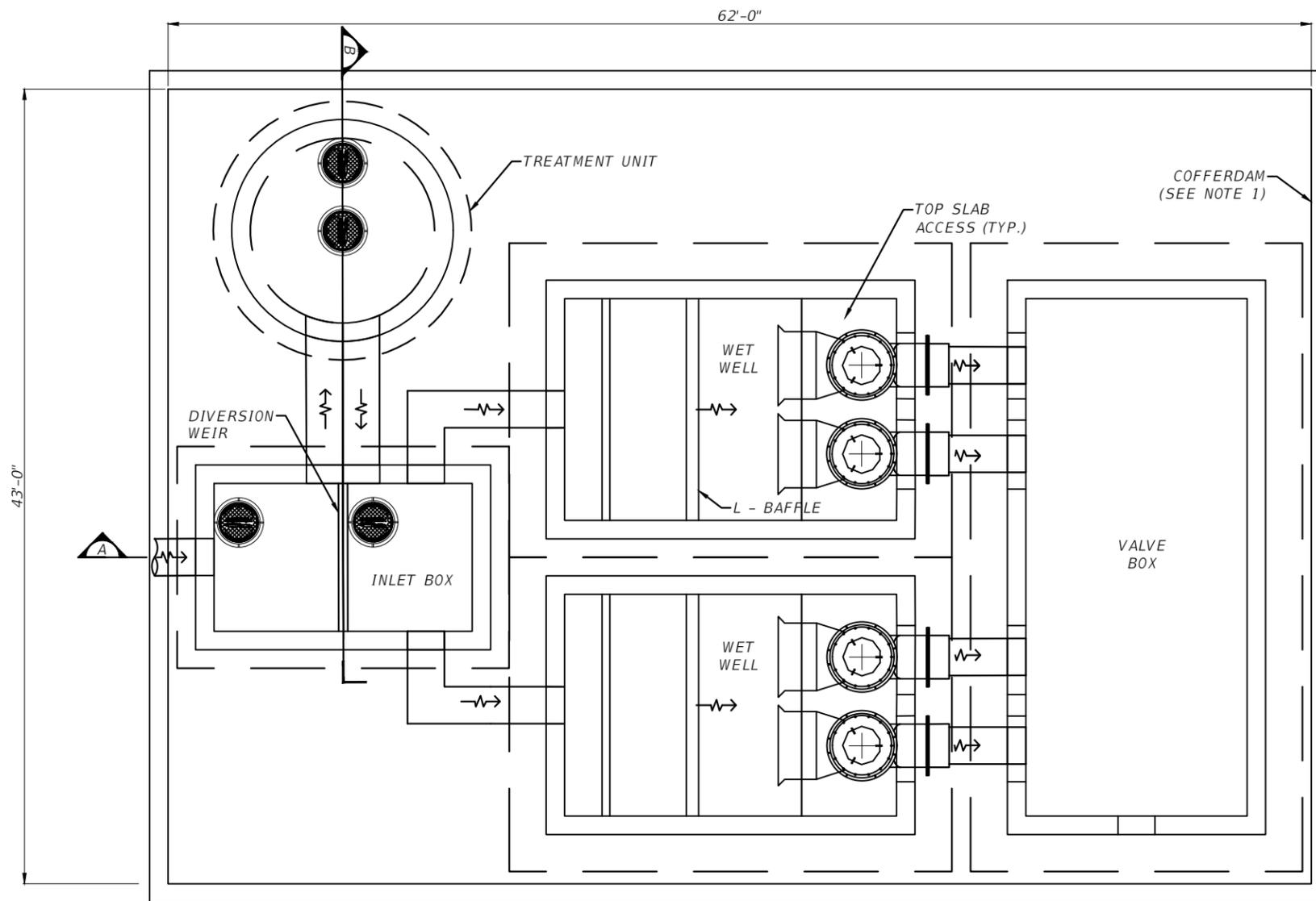
20"W X 16" H SPACE  
RESERVED FOR  
FUTURE TELEMETRY UNIT

NOTE:  
CONTROL SCHEMATIC INDICATES MINIMUM  
REQUIREMENTS AND IT SHALL BE REVISED  
AND SUPPLEMENTED BY MANUFACTURER TO  
PROVIDE ALL NECESSARY FEATURES FOR  
A COMPLETE WORKING MOTOR SYSTEM.



REVISIONS				A&P Consulting Transportation Engineers Corp. 8935 N.W. 35th Lane, Suite 200 Miami, FL 33172 (305) 592-7283 / fax: (305) 593-1594 CA No. : EB-0007797 Eduardo L. Martinez, P.E. No. 52023			SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY) MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.  E-9B
DATE	DESCRIPTION	DATE	DESCRIPTION					
							CONTROL PANEL ELECTRICAL SCHEMATIC (4)	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

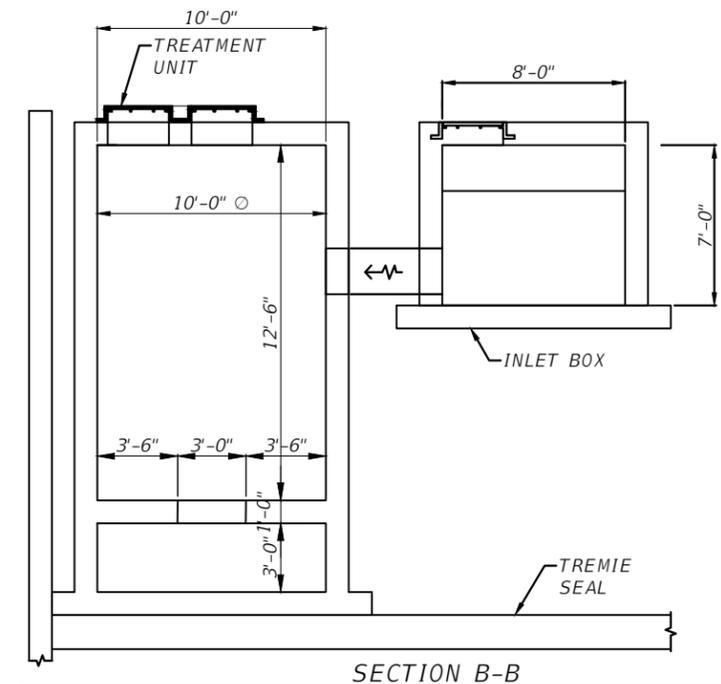
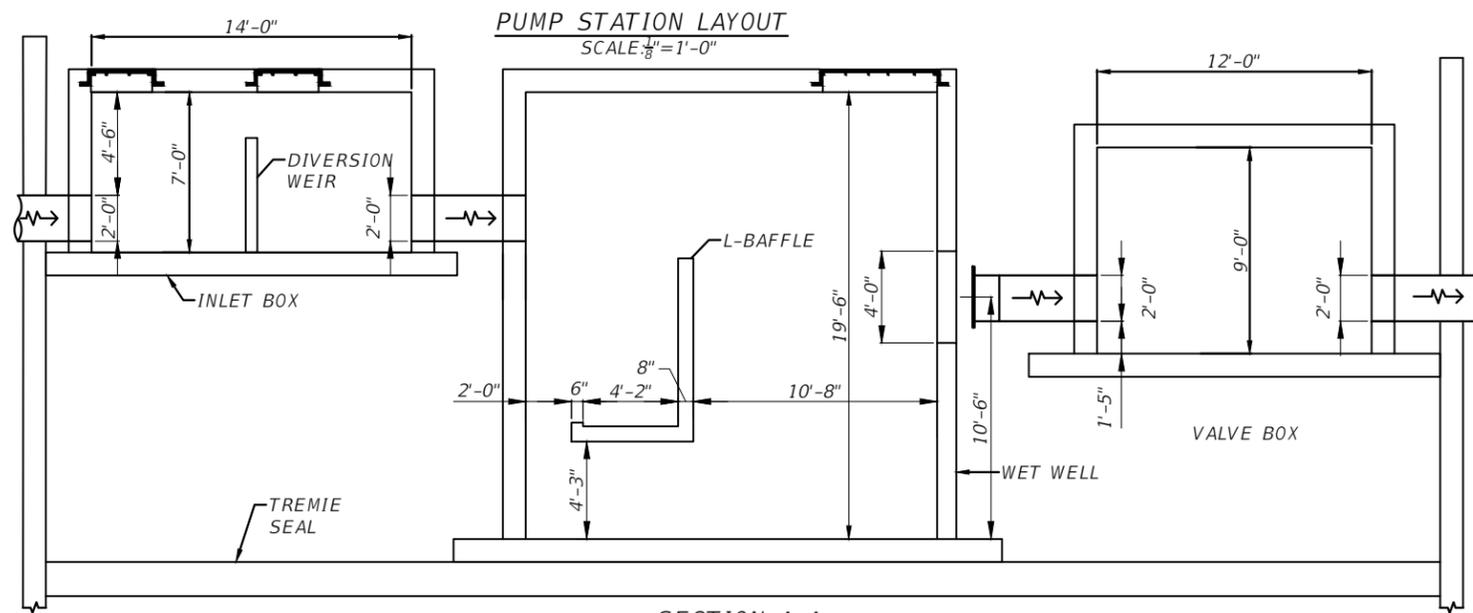


**STRUCTURAL NOTES**

- 1 - GENERAL NOTES
  - 1.1 THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2017 EDITION.
- 2 - CONCRETE
  - 2.1 CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 5500 PSI AT 28 DAYS.
  - 2.2 DESIGN OF CONCRETE COMPONENTS SHALL CONFORM TO ACI 318-14.
- 3 - REINFORCING STEEL
  - 3.1 REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60
  - 3.2 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
  - 3.3 FABRICATION AND DETAILING SHALL CONFORM TO ACI 315.
  - 3.4 REINFORCEMENT COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
    - CONCRETE CAST AGAINST THE GROUND: 3"
    - FORMED CONCRETE IN CONTACT WITH GROUND: 3"
    - FORMED OR PRECAST SLABS & WALLS: 2"
- 4 - DESIGN CRITERIA
  - 4.1 LOADS:
    - DEAD LOAD: BASED ON CONCRETE DENSITY OF 150 PCF.
    - LIVE LOAD: HS20 WHEEL LOAD PER AASHTO SPECIFICATIONS.
  - 4.2
    - LIVE LOAD SURCHARGE: 240 PCF.
    - BUOYANCY: BASED ON WATER DENSITY OF 62.4 PCF.
    - WIND LOADS: IN ACCORDANCE WITH FBC 2017 AND ASCE 7-10, 175 MPH WIND SPEED, EXPOSURE 'C'.
- 5 - SHOP DRAWINGS
 

THE CONTRACTOR HAS THE OPTION TO CONSTRUCT A CAST-IN-PLACE OR PRECAST STRUCTURE, SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL INDICATE ON THE SHOP DRAWINGS WHETHER THE STRUCTURE IS PRECAST OR CAST-IN-PLACE.
- 6 - COFFERDAM
 

THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND PLANS FOR THE COFFERDAM AND THE TREMIE SEAL. ALL CALCULATIONS AND PLANS SHALL BE SIGNED AND SEALED BY FLORIDA REGISTERED PROFESSIONAL ENGINEERS.



SECTION A-A

SECTION B-B

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROGER G KHOURI, P.E.  
 P.E. LICENSE NUMBER 47745  
 WSP USA, 7650 CORPORATE CENTER DRIVE,  
 SUITE 300, MIAMI, FLORIDA 33126  
 CERTIFICATE OF AUTHORIZATION 01462



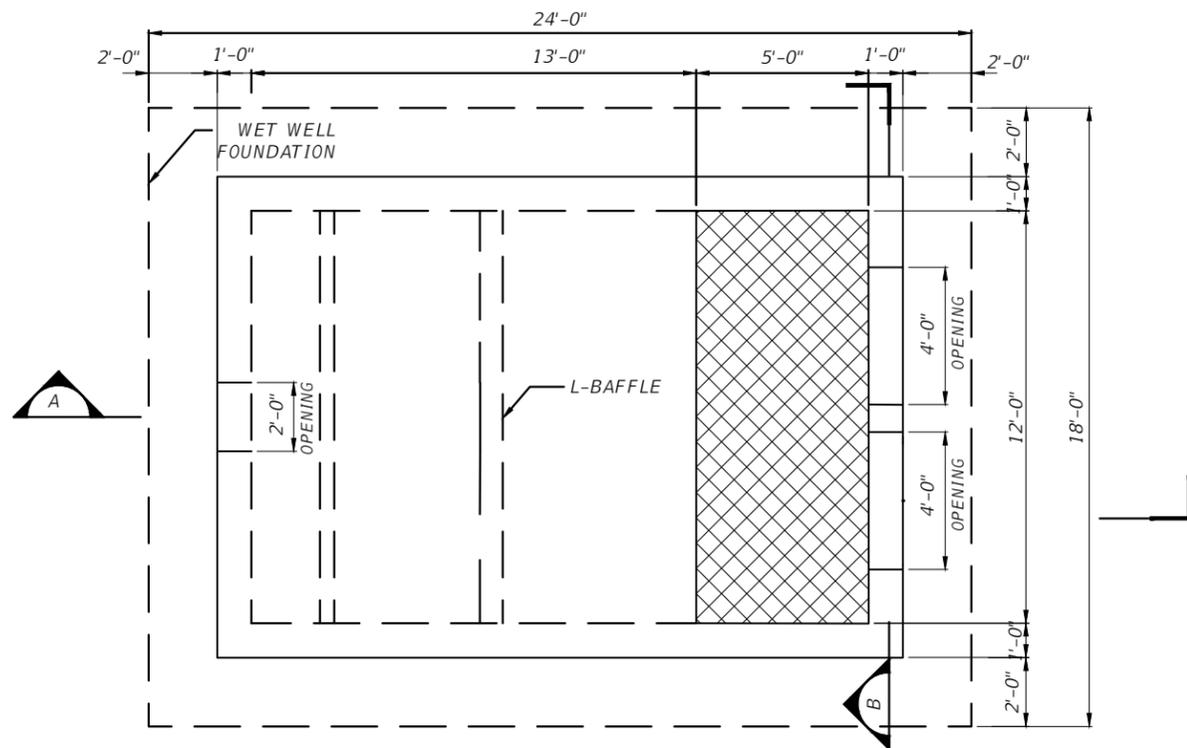
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
 PROJECT (KEY LARGO AND BIG PINE KEY)  
 MONROE COUNTY - DEPARTMENT OF ENGINEERING

SHEET NO.

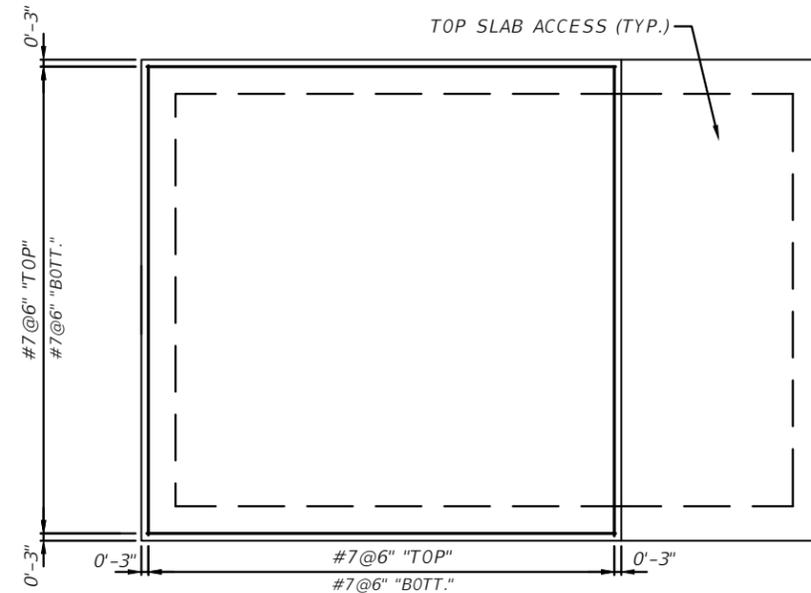
BIG PINE PUMP STATION LAYOUT

S-1B

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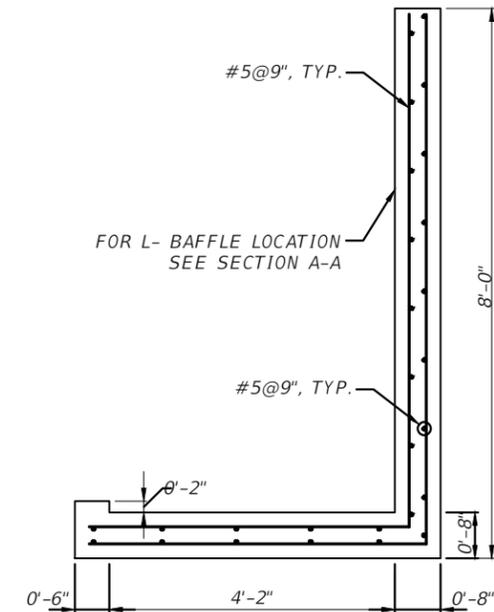


**WET WELL-PLAN**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



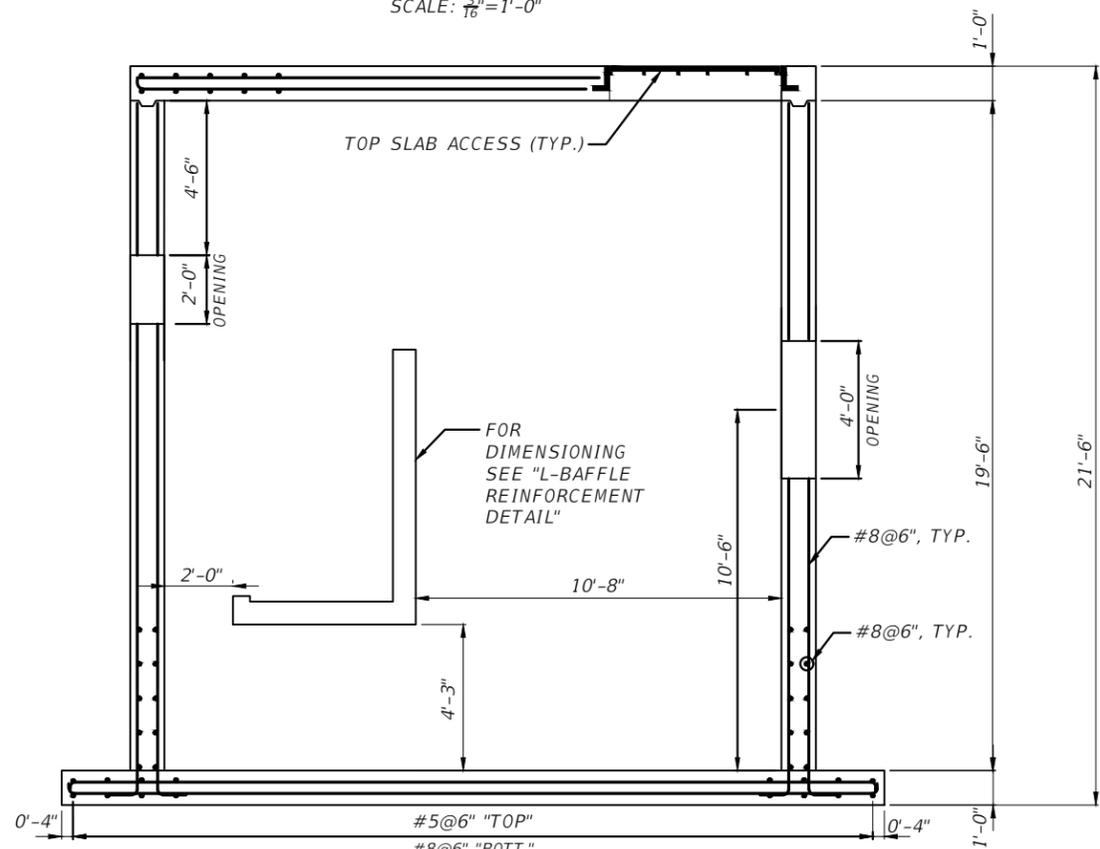
**TOP SLAB REINFORCEMENT DETAIL**

SCALE:  $\frac{3}{16}'' = 1'-0''$

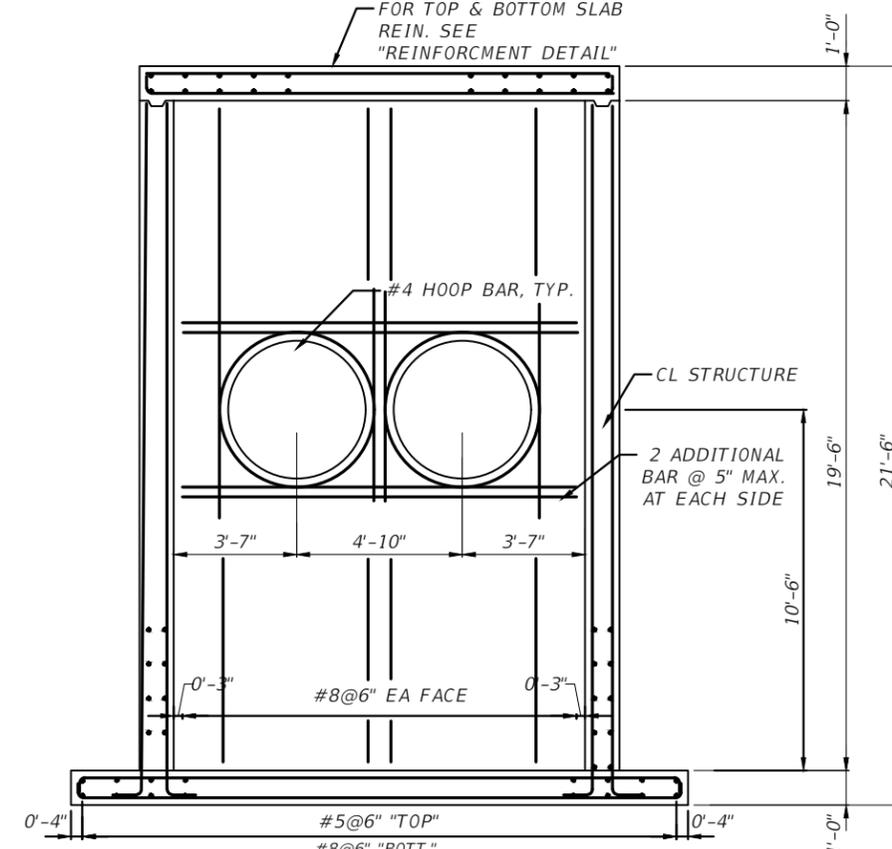


**L-BAFFLE REINFORCEMENT DETAIL**

SCALE:  $\frac{3}{8}'' = 1'-0''$



**SECTION A-A**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**SECTION B-B**  
SCALE:  $\frac{3}{16}'' = 1'-0''$

**NOTES:**

1. FOR WET WELL LOCATION SEE SHEET S1-B.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROGER G KHOURI, P.E.  
P.E. LICENSE NUMBER 47745  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462

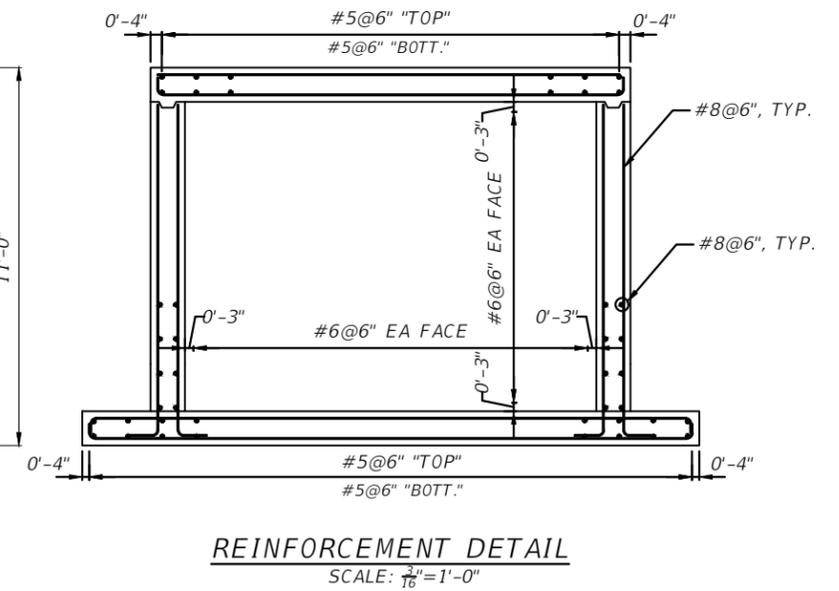
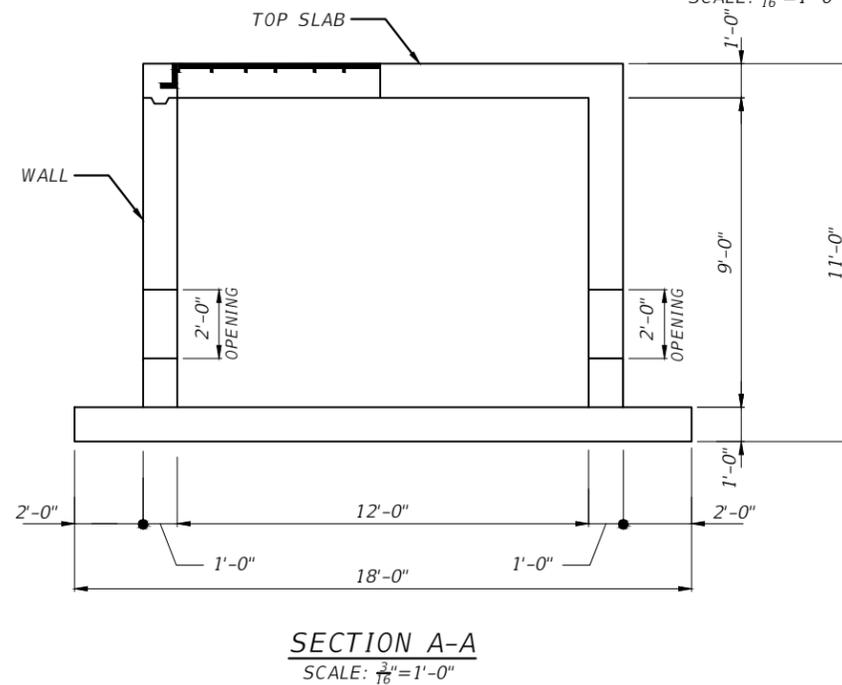
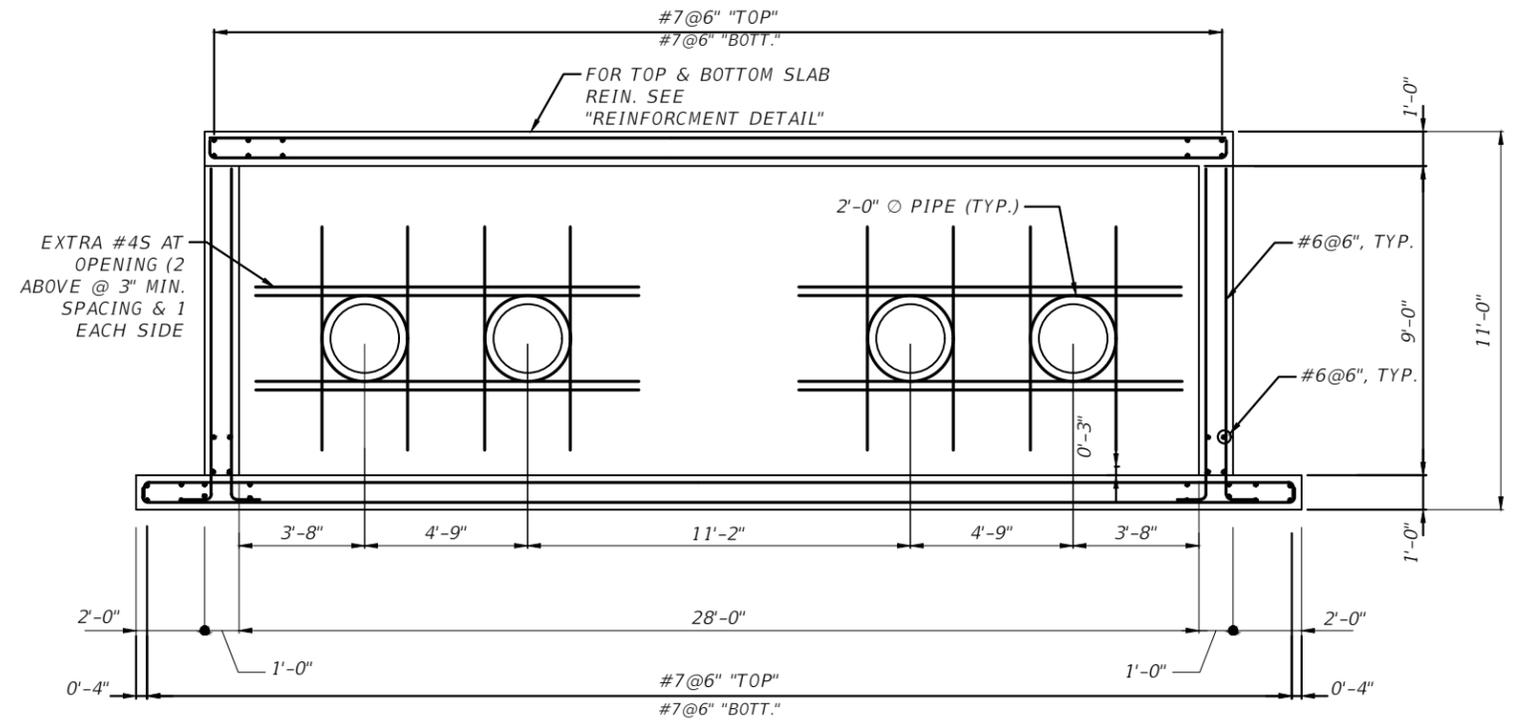
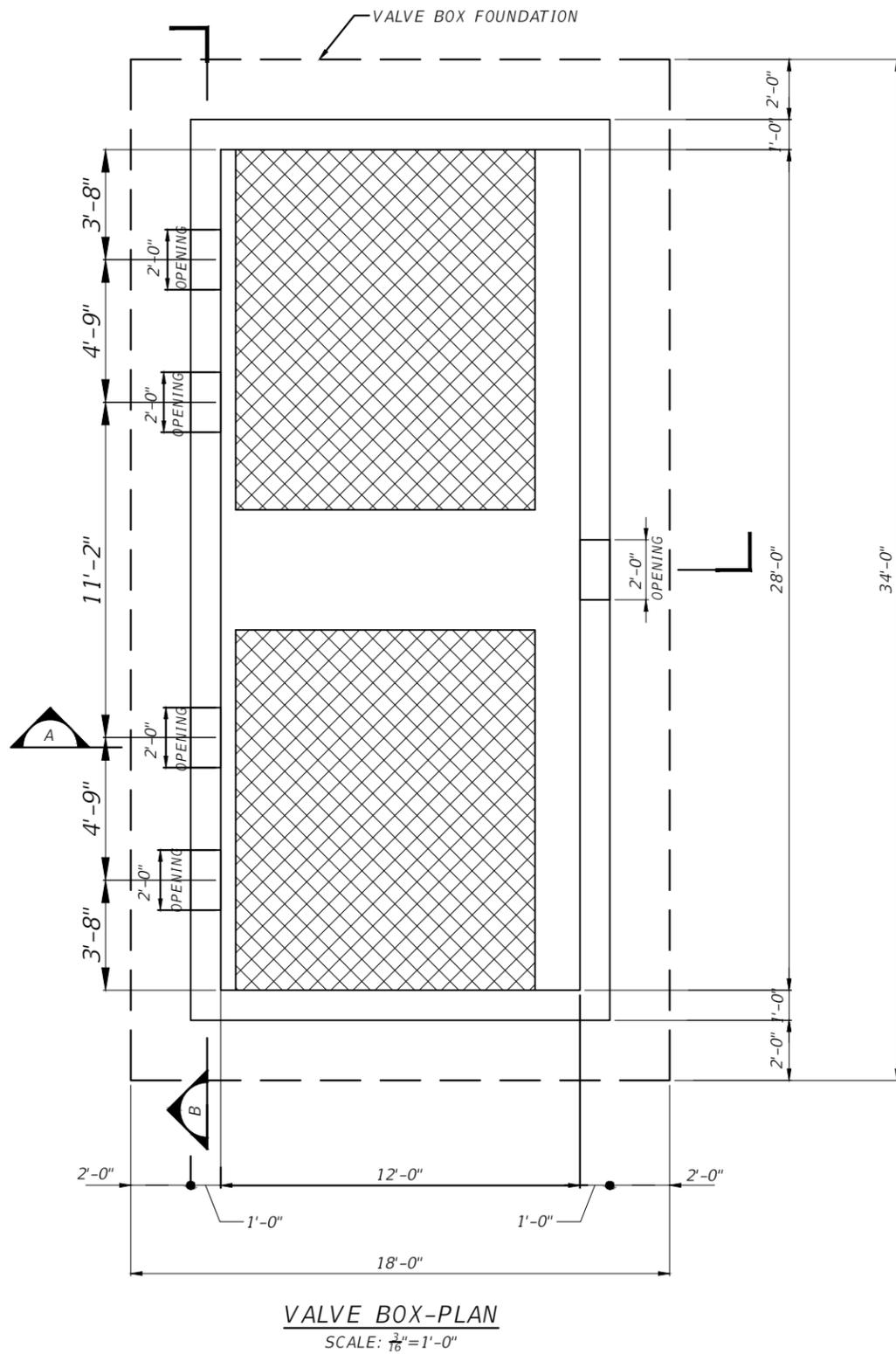


**SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT PROJECT (KEY LARGO AND BIG PINE KEY)**  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

**WET WELL PLAN AND SECTIONS**

SHEET NO.

**S-2B**



- NOTES:  
1. FOR VALVE BOX LOCATION SEE SHEET S-1B.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROGER G KHOURI, P.E.  
P.E. LICENSE NUMBER 47745  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462

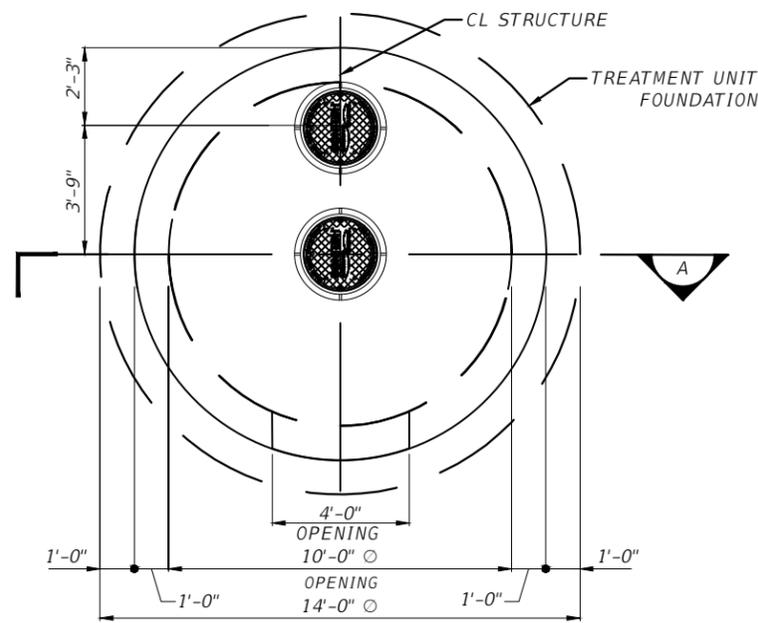


SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

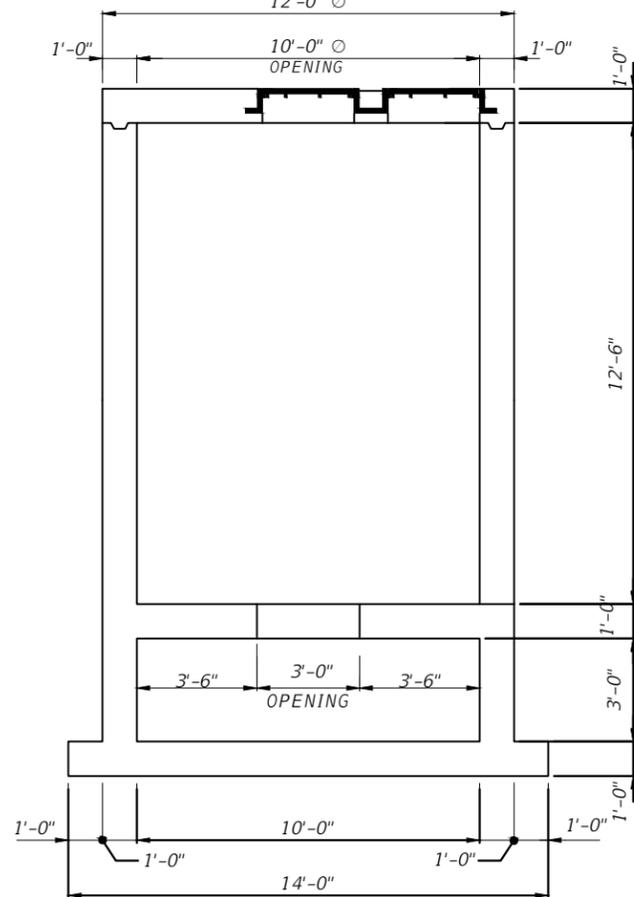
SHEET NO.

VALVE BOX PLAN AND SECTIONS

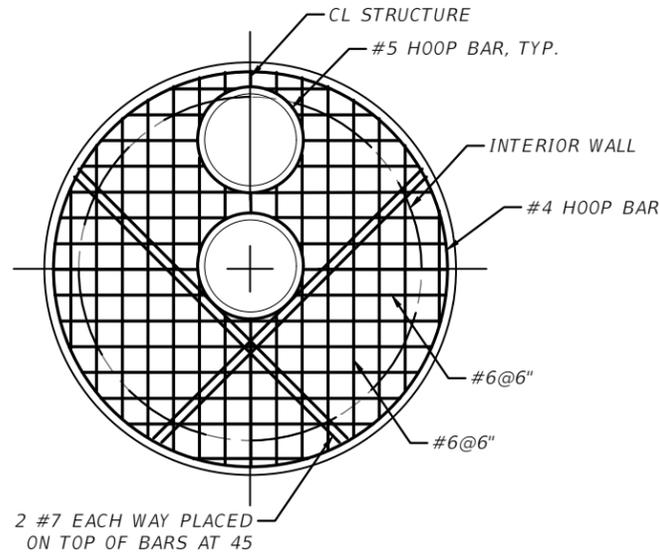
S-3B



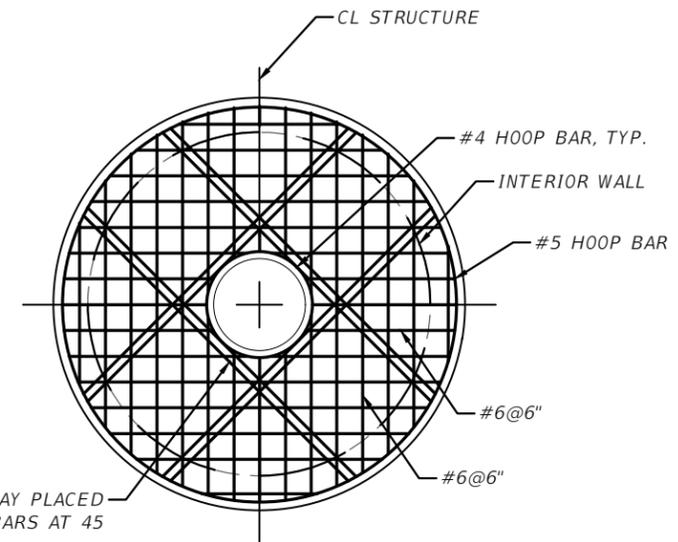
**TREATMENT UNIT-PLAN**  
SCALE:  $\frac{3}{16}'' = 1'-0''$   
12'-0"  $\varnothing$



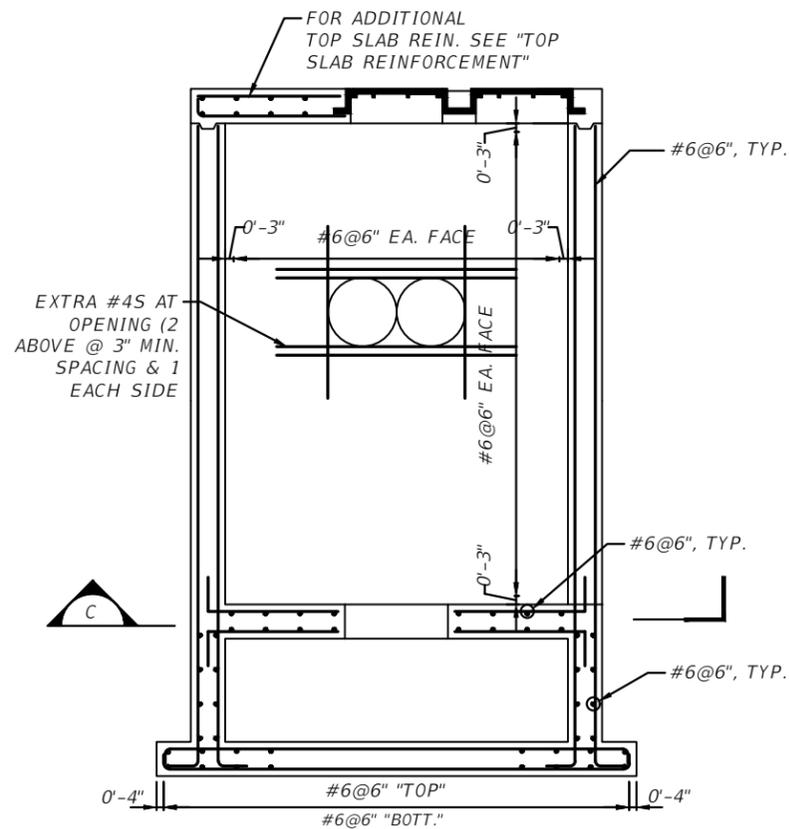
**SECTION A-A**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**TOP SLAB REINFORCEMENT DETAIL**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**SECTION B-B**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**REINFORCEMENT DETAIL**  
SCALE:  $\frac{3}{16}'' = 1'-0''$

**NOTES:**

1. FOR TREATMENT UNIT LOCATION SEE SHEET S-1B.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ROGER G KHOURI, P.E.  
P.E. LICENSE NUMBER 47745  
WSP USA, 7650 CORPORATE CENTER DRIVE,  
SUITE 300, MIAMI, FLORIDA 33126  
CERTIFICATE OF AUTHORIZATION 01462



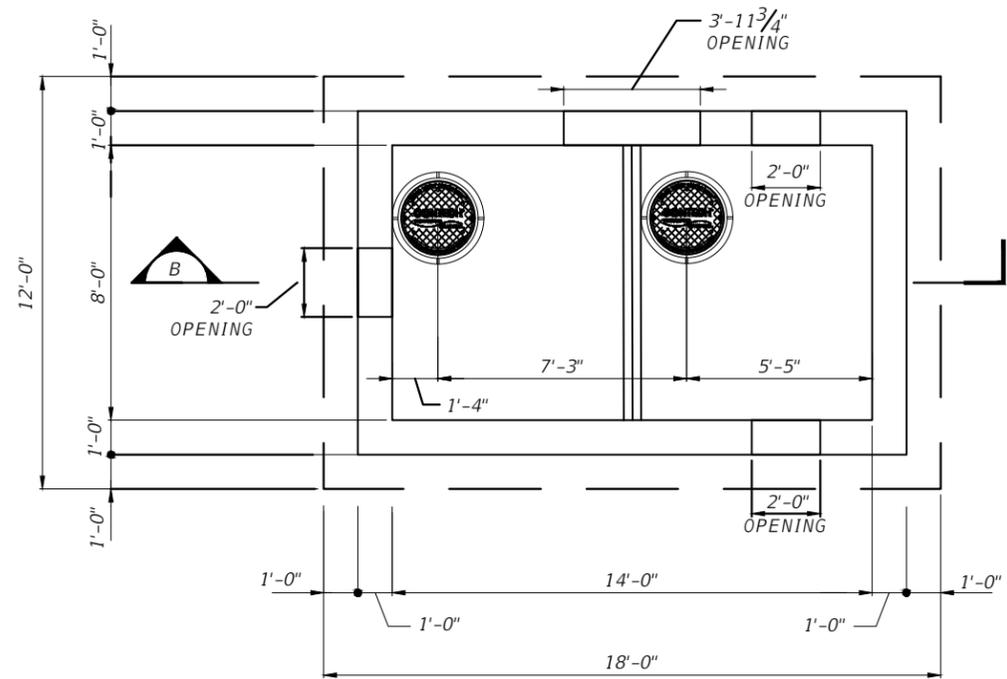
SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT  
PROJECT (KEY LARGO AND BIG PINE KEY)  
MONROE COUNTY - DEPARTMENT OF ENGINEERING

TREATMENT UNIT PLAN AND SECTIONS

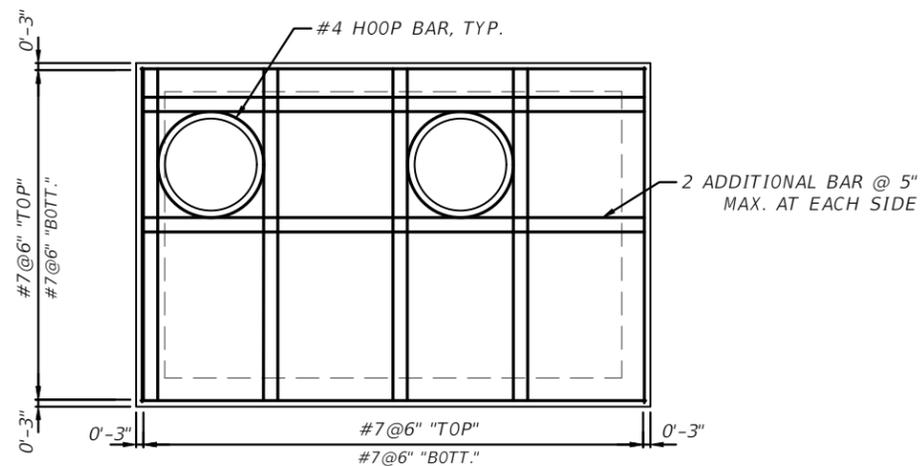
SHEET NO.

S-4B

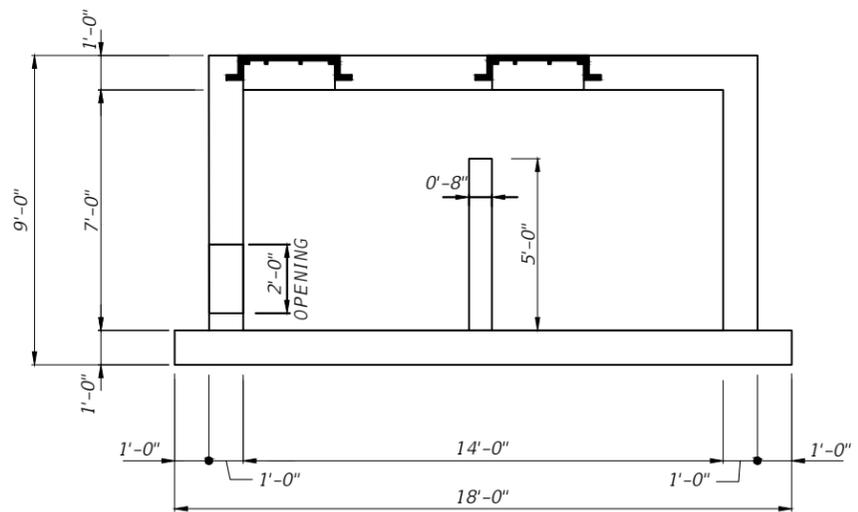
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



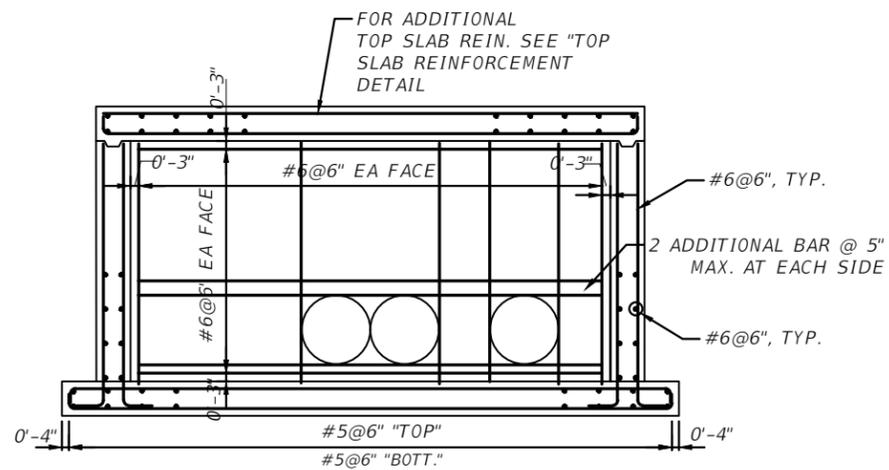
**INLET BOX-PLAN**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**TOP SLAB REINFORCEMENT DETAIL**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**SECTION B-B**  
SCALE:  $\frac{3}{16}'' = 1'-0''$



**REINFORCEMENT DETAIL**  
SCALE:  $\frac{3}{16}'' = 1'-0''$

**NOTES:**  
1. FOR TREATMENT UNIT LOCATION SEE SHEET S-1B.

REVISIONS				ROGER G KHOURI, P.E. P.E. LICENSE NUMBER 47745 WSP USA, 7650 CORPORATE CENTER DRIVE, SUITE 300, MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 01462			<b>SEA LEVEL RISE ROADWAY AND DRAINAGE PILOT          PROJECT (KEY LARGO AND BIG PINE KEY)</b> MONROE COUNTY - DEPARTMENT OF ENGINEERING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					S-5B

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**FL CDBG Mitigation**

**General Infrastructure Program Project Budget**

Project Name:	Sands Subdivision Road Mitigation Project	Primary Contact Name and Phone Number:	Judith Clarke 305-295-4329	Official Applicant Entity Name:	Monroe County Board of County Commissioners
Project		Budget			Notes
Description	CDBG-MIT Amount	Other non CDBG-MIT Funds	Source of Funds*	Total Funds (CDBG-MIT and Other)	
Roadway and drainage design analysis	0	Monroe County BOCC General Revenue Funds (MCBOCC-GR)	\$162,000	0	Monroe County has already procured and expended funds for design currently at 90% through Monroe County Board of County Commissioners, General Revenue Funds
Construction Plans And Technical Specifications Preparation	0	MCBOCC-GR	\$75,000	0	Monroe County has already procured and expended funds for design currently at 90%% through Monroe County Board of County Commissioners, General Revenue Funds
Survey	0	MCBOCC-GR	\$31,500	0	Monroe County has already procured and expended funds for design currently at 90%% through Monroe County Board of County Commissioners, General Revenue Funds
Geotechnical investigation; wetland delineation	0	MCBOCC-GR	\$25,000	0	Monroe County has already procured and expended funds for design currently at 90%% through Monroe County Board of County Commissioners, General Revenue Funds
Environmental Review	0	MCBOCC-GR	\$20,000	0	Monroe County has already procured and expended funds for design currently at 90%



					% through Monroe County Board of County Commissioners, General Revenue Funds
Land Acquisitions	0	MCBOCC – GR	\$41,000	0	Monroe County has already procured and expended funds for a parcel for drainage equipment
Permitting – SFWMD and FDEP	0	MCBOCC-GR	\$11,000	0	Monroe County has already procured and expended funds for permits
<b>Total Design and Permitting at 90%</b>	<b>0</b>	MCBOCC-GR	<b>\$365,500</b>		Monroe County has already procured and expended funds for permits
<b>Construction Estimate based upon Engineers Design of 90%</b>					
Mobilization	\$610,502.	NA		\$610,502.	Based on Engineers Estimate at 90%design
Maintenance of Traffic	\$72,000.	NA		\$72,000.	Based on Engineers Estimate at 90% design
Roadway Construction	\$398,737.	NA		\$398,737.	Based on Engineers Estimate at 90% design
Utility Adjustments	\$88,300.	NA		\$88,300.	Based on Engineers Estimate at 90% design
Drainage system construction	\$5,706,285.	NA		\$5,706,285.	Based on Engineers Estimate at 90% design



Contingency	\$619,332.			\$619,332.	Based on Engineers Estimate at 90% design
<b>Construction Engineering and Inspection (CEI)</b>	\$619,332.			\$619,332.	Based on Engineers Estimate at 90% design
<b>Total Construction Estimate at 90%</b>	<b>\$8,114,488.</b>	MCBOCC-GR	<b>\$365,500</b>	<b>\$8,479,988</b>	Based on Engineers Estimate at 90% design
<b>Project Management</b>	\$405,724			\$405,724	This represents a total of five (5)% of the project construction costs which totaled \$8,114,488
<b>Totals: Design, Construction and Project Management</b>	<b>\$8,520,212</b>	MCBOCC-GR	\$365,500	<b>\$8,885,712</b>	

**\* All funds identified for use on your project must be fully disclosed and detailed to ensure budget accuracy and no duplication of benefits. Show the sources and amounts of other funds needed to complete the project below, including local funds and grants from other agencies. Any anticipated or committed funds must also be included.**

Source of Other Funds	Amount
1. Monroe County has already procured and expended funds for design currently at 90% through Monroe County Board of County Commissioners, General Revenue Funds	\$365,500
2.	
3.	



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**Community Development Block Grant – Mitigation Program  
General Infrastructure Program**

**Monroe County Sands Subdivision Road Mitigation Project**

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**PUBLIC PARTICIPATION REQUIREMENTS**

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As required by the CDBG-MIT GIP Guidelines, attached are the following required documents to demonstrate that Public Participation Requirements have been met:

1. Documentation of newspaper advertisement: *Attachment 1*
  - a. **Notice of Public Hearing** : The Notice was sent to the newspaper of general circulation on August 3, 2020 for publication on August 8, 2020. **The Public Hearing was scheduled for August 19, 2020 providing a total of 11 day notice of the public hearing. (Attachment 1a)**
  - b. **Key West Citizen Newspaper notice**: Printed notice from the Key West Citizen on August 8, 2020. (*Attachment 1b*)
2. Print-out of Monroe County webpage showing public notice: *Attachment 2*
3. Evidence of a public meeting with the Monroe County Board of County Commissioners: *Attachment 3*
  - a. **Online Recording of the BOCC Meeting**: The Public Hearing was conducted virtually on August 19, 2020 via ZOOM and recorded. The Board meeting may be viewed on demand at the following link: <https://monroe-fl.vod.castus.tv/vod/?video=a1956af6-d1c2-4db9-a372-5a4a9d1d99ed>. The CDBG-MIT GIP grant application were heard at 2:11pm. By using the arrow at the bottom of the screen, viewers may fast forward to the appropriate time.
  - b. **Board of County Commission Meeting Agenda**: The meeting agenda may be viewed in its entirety at the following weblink: <http://monroecountyfl.ig2.com/citizens/FileOpen.aspx?Type=14&ID=1139&Inline=True>. The Public Hearing for the CDBG-MIT GIP grant application was listed as an items in section “Q” on pages 13 and 14. Excerpts of the Agenda have been included at *Attachment 3a*.
  - c. **Board of County Commission Meeting Agenda Packet**: This document contains the full Agenda Items as well as all of the supporting back-up documentation and may be viewed at the following weblink: <http://monroecountyfl.ig2.com/citizens/FileOpen.aspx?Type=1&ID=1139&Inline=True>



The Agenda Item for this grant application was excerpted and included as *Attachment 3b*.

4. Documentation of a meeting must include sign-in sheets and minutes
  - a. Participant List from Virtual Meeting Log In Data (*Attachment 4a*)
  - b. Meeting Minutes (*Attachment 4b*)
  - c. Public Comments from the Public Hearing (*Attachment 4c*)
  - d. d: Powerpoint Presentation of the Public Hearing 8-19-2020



Figure 1: Screen Shot of the Virtual Public Hearing at BOCC Meeting 8/19/2020



## **Attachment 1: Documentation of Newspaper Advertisement**



**Attachment 1a: Notice Sent to the Newspaper on August 3, 3030**

**NOTICE OF PUBLIC HEARING**

**NOTICE IS HEREBY GIVEN TO WHOM IT MAY CONCERN**, that on Wednesday, August 19, 2020, at 1:30P.M., the Board of County Commissioners of Monroe County, Florida, intends to consider the following:

**A VIRTUAL PUBLIC MEETING REGARDING APPROVAL TO APPLY TO THE DEPARTMENT OF ECONOMIC OPPORTUNITY (“DEO”) FOR COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION (CDBG-MIT) FUNDING FOR THE BELOW-DESCRIBED PROJECTS:**

1. Sands Subdivision Road Elevation and Drainage Improvement Project: \$8.5 Million
2. Twin Lakes Road Elevation and Drainage Improvement Project: \$7.1 Million
3. Stillwright Point Road Elevation and Drainage Improvement Project: \$21 Million
4. Public Works and Fleet Maintenance Facility Relocation to Rockland Key: \$13.7 Million
5. Big Coppitt Key Road Elevation and Drainage Improvement Project: \$8.5 Million

**In compliance with program requirements, the applications has been posted for public comment at the following website: <http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs> for a 10-day minimum public comment period.**

**The State of Florida, Department of Economic Opportunity has allocated \$475 Million to the General Infrastructure Program (GIP), funded through the Community Development Block Grant-Mitigation (CDBG-MIT) Program. The GIP will allow units of general local government (UGLG) to enhance community lifelines by mitigating community infrastructure.**

**Pursuant to Executive Order No. 20-69, Monroe County Emergency Directive 20-06, and the Center for Disease Control (“CDC”) social-distancing guidelines established to contain the spread of the COVID-19 virus, the August 19, 2020, meeting of the Board of County Commissioners of Monroe County, Florida, will be conducted via Communication Media Technology (“CMT”), using a Zoom Webinar platform. Executive Order 20-179 extends EO 20-69. If the Governor issues a subsequent order changing directives for Local Government Public Meetings, the County will provide updates on the County Website at MonroeCounty-FL.Gov. Public Hearings will commence at 1:30P.M. Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items.**



The public is strongly encouraged to watch the meeting on Monroe County's MCTV Comcast Channel 76, or listen to audio-only from their phones by dialing (646) 518-9805 and, when prompted, enter the Webinar ID number 982 2806 0317 followed by the # key.

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For additional assistance, please call (305) 292-4441, or email your request to your request or inquiry to:

- Lindsey Ballard ([ballard-lindsey@monroecounty-fl.gov](mailto:ballard-lindsey@monroecounty-fl.gov)), or
- Liz Yongue ([yongue-liz@monroecounty-fl.gov](mailto:yongue-liz@monroecounty-fl.gov))

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**p.m., no later than five (5) calendar days prior to the scheduled meeting; if you are hearing-or voice-impaired, call “711”.**

Pursuant to Section 286.0105, Florida Statutes, notice is given that if a person decides to appeal any decision made by the Board with respect to any matter considered at such hearings or meetings, such person will need a record of the proceedings, and that, for such purpose, such person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Dated at Key West, Monroe County, Florida, this 5th day of August, 2020.

(SEAL)

**KEVIN MADOK**, Clerk of the Circuit Court and  
*ex officio* Clerk of the Board of County  
Commissioners of Monroe County,

Florida

**Publication Dates:**

**Citizen: Sat., 08/08/2020**

**Keys Weekly: Thur., 08/13/2020**

**News Barometer: Fri., 08/14/2020**



Attachment 1B: Publication of Advertisement in the Key West Citizen on August 8, 2020; the News Barometer August 14, 2020; and the Keys Weekly August 13, 2020.

THE KEY WEST CITIZEN • WEEKEND EDITION, AUGUST 8-9, 2020 3C

# KEYSWIDE CLASSIFIED®

<p><b>DEADLINES - LINE ADS</b></p> <p>Monday Edition: 4pm Friday          Tuesday Edition: 10am Monday          Wednesday Edition: 10am Tuesday          Thursday Edition: 10am Wednesday          Friday Edition: 10am Thursday          Weekend Edition: 10am Friday          Year-Over Map: 4pm Wednesday</p>	<p><b>NOTICE TO ADVERTISERS</b></p> <p>In case of errors, please check your ad the first day it appears. In the event of an error, we are responsible for the first incorrect insertion of an ad. The Citizen does not assume responsibility for any reason beyond the cost of the ad itself.</p>	<p><b>CANCELLATIONS</b></p> <p>All word ad rates are placement fees and non-refundable (for frequency days canceled). Ads may be removed from the publication with placement fee remaining.</p>	<p><b>NOTICE TO CONTRACTORS</b></p> <p>Monroe County requires that Contractors that advertise must include their permanent certificate of competency number. If you have questions concerning requirements, please call the Monroe County Building Department at (305)289-2564.</p>
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**292-7777**  
Mon-Fri 8AM - 4PM • Proven to Work for Over 140 Years

010 ANNOUNCEMENTS	050 LEGAL NOTICES	100 TRANSPORTATION	140 BOATS	200 MERCHANDISE	250 YARD SALES	400 RENTALS	500 REAL ESTATE - COM	600 REAL ESTATE - RES	700 SERVICES	960 HELP WANTED	1000 SERVICE DIRECTORY
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<p><b>50 Calls For Bids</b></p> <p>DL Porter Constructors, Inc is currently seeking qualified DBE subcontractor quotes for the Florida Keys Marathon Airport - Terminal Building Rehab &amp; Security Site Lighting Rehab. Plans and specifications are available via email (<a href="mailto:Kevin@dlporter.com">Kevin@dlporter.com</a>). All pricing to be submitted to <a href="mailto:Kevin@dlporter.com">Kevin@dlporter.com</a> no later than <b>Tuesday, August 10, 2020 @ 1:00pm</b>.          July 11, 18, 25 &amp; August 1 &amp; 8, 2020          Key West Citizen</p> <p style="text-align: center;"><b>NOTICE OF REQUEST FOR COMPETITIVE SOLICITATIONS</b></p> <p>NOTICE IS HEREBY GIVEN that on <b>Wednesday, September 9, 2020, at 3:00 PM</b>, the Monroe County Purchasing Office will receive and open sealed responses for the following:</p> <p><b>Standby Emergency Feeding Services</b>          Monroe County, Florida</p> <p>Pursuant to F.S. 50.021(3)(a), all published competitive solicitation notices can be viewed at: <a href="http://www.floridapublic-notices.com">www.floridapublic-notices.com</a>, a searchable Statewide repository for all published legal notices. Requirements for submission and the selection criteria may be requested from DemandStar at <a href="http://www.demandstar.com">www.demandstar.com</a> OR <a href="http://www.monroecountybids.com">www.monroecountybids.com</a>.</p> <p>In response to Covid-19, the Monroe County Purchasing Department has implemented a new electronic process for receiving and opening sealed bids. Monroe County is committed to continuing to receive and receive contracts.</p>	<p><b>57 Public Notice</b></p> <ul style="list-style-type: none"> <li>• Manager, Delinquent Tax Department</li> <li>• Manager, Tourist Development Tax</li> <li>• Manager, Information Technology</li> </ul> <p>Additional information may be obtained by writing to the Monroe County Tax Collector, PO Box 1129, Key West, FL 33041-1129.          08/01/20 &amp; 08/08/20 Key West Citizen</p> <p style="text-align: center;"><b>NOTICE OF INTENTION TO CONSIDER ADOPTION OF COUNTY ORDINANCE</b></p> <p>NOTICE IS HEREBY GIVEN TO WHOM IT MAY CONCERN that on August 19, 2020, at 1:30 PM, or as soon thereafter as may be heard, the Board of County Commissioners of Monroe County, Florida, intends to consider the adoption of the following County ordinance:</p> <p><b>AN ORDINANCE OF THE MONROE COUNTY BOARD OF COUNTY COMMISSIONERS AMENDING SECTION 19-4 OF THE MONROE COUNTY CODE PROVIDING FOR REVISED TOLL RATES; PROVIDING FOR SEVERABILITY; PROVIDING FOR REPEAL OF ALL ORDINANCES INCONSISTENT HERewith; PROVIDING FOR INCORPORATION INTO THE MONROE COUNTY CODE OF ORDINANCES; AND PROVIDING FOR AN EFFECTIVE DATE.</b></p> <p>Pursuant to Section 286.0105, Florida Statutes, notice is given that if a person desires to appeal any decision made by the Board with respect to any matter considered at such hearing or meetings, he will need a record of the proceedings.</p>	<p><b>57 Public Notice</b></p> <p><b>ERS OF MONROE COUNTY, FLORIDA AMENDING ORDINANCE NO. 014-2020 AS AMENDED BY ORDINANCE 022-2020 TO MANDATE THAT INDIVIDUALS WEAR A FACE COVERING IN PUBLIC IN CERTAIN CIRCUMSTANCES; ESTABLISHING A MINIMUM COUNTY-WIDE REQUIREMENT, EXCEPT TO THE EXTENT OF A MUNICIPAL ORDINANCE IN CONFLICT; PROVIDING FOR SEVERABILITY; PROVIDING FOR REPEAL OF ALL ORDINANCES INCONSISTENT HERewith; PROVIDING FOR TRANSMITTAL TO THE SECRETARY OF STATE AND PROVIDING FOR AN EFFECTIVE AND SUNSET DATE.</b></p> <p style="text-align: center;"><b>ORDINANCE NO. 025-2020</b></p> <p><b>AN UNCODIFIED EMERGENCY ORDINANCE BY THE BOARD OF COUNTY COMMISSIONERS OF MONROE COUNTY, FLORIDA AMENDING ORDINANCE NO. 023-2020 CREATING SECTION 3.151 ALLOWING RESTAURANTS TO SELL FOOD TO CUSTOMERS THROUGH DRIVE THROUGH, DELIVERY AND/OR CURBSIDE SERVICES DURING THE HOURS OF 11:00 PM. AND 5:00 A.M.; CREATING SECTION 4.(2); PROVIDING FOR A NO CONTEST FINE OF \$250 IN LIEU OF CONTESTING AN ISSUED CITATION; TO MANDATE THAT ALL BARS, RESTAURANTS, AND FOOD SERVICE ESTABLISHMENTS CLOSE FROM 11 PM. UNTIL 5 A.M. EACH DAY STARTING AT 11 PM. ON JULY 24, 2020 AND ENDING AT 5 A.M. ON AUGUST 19, 2020; PROHIBITING ALCOHOL SALES FROM 11 PM. UNTIL 7 A.M. EACH DAY STARTING AT 11 PM. ON JULY 24, 2020 AND ENDING AT 7 A.M. ON AUGUST 19, 2020;</b></p>	<p><b>58 Notice To Creditors</b></p> <p style="text-align: center;"><b>NOTICE TO CREDITORS</b></p> <p>The administration of the estate of <b>THOMAS BLAIR FARNED</b>, deceased, is pending in the Circuit Court for Monroe County, Florida, Probate Division, the address of which is 402 Fleming Street, Key West, FL 33040. The names and addresses of the personal representative and the personal representative's attorney are set forth below.</p> <p>All creditors of the decedent and other persons having claims or demands against decedent's estate on whom a copy of this notice is required to be served must file their claims with this court ON OR BEFORE THE LATER OF 3 MONTHS AFTER THE TIME OF THE FIRST PUBLICATION OF THIS NOTICE OR 30 DAYS AFTER THE DATE OF SERVICE OF A COPY OF THIS NOTICE ON THEM.</p> <p>All other creditors of the decedent and other persons having claims or demands against decedent's estate must file their claims with this court WITHIN 3 MONTHS AFTER THE DATE OF THE FIRST PUBLICATION OF THIS NOTICE.</p> <p>ALL CLAIMS NOT FILED WITHIN THE TIME PERIODS SET FORTH IN FLORIDA STATUTES SECTION 733.702 WILL BE FOREVER BARRED.</p> <p>NOTWITHSTANDING THE TIME PERIODS SET FORTH ABOVE, ANY CLAIM FILED TWO (2) YEARS OR MORE AFTER THE DECEDENT'S DATE OF DEATH IS BARRED.</p> <p>The date of first publication of this notice is August 8, 2020.</p> <p>Attorney for Personal Representative:          SHERI SMALL WOOD, CHARTERED</p>	<p><b>58 Notice To Creditors</b></p> <p><b>Personal Representatives:</b>          Kathy Barson          27962 Temple Avenue          Little Torch Key, FL 33042</p> <p><b>Ben Seeker</b>          2009 Old Independence Road Brenham,          TX, 77833          08/08/20 &amp; 08/15/20 Key West Citizen</p> <p style="text-align: center;"><b>keysnews.com</b></p> <p><b>59 Public Hearings</b></p> <p style="text-align: center;"><b>NOTICE OF PUBLIC HEARING</b></p> <p>NOTICE IS HEREBY GIVEN TO WHOM IT MAY CONCERN, that on Wednesday, August 19, 2020, at 1:30 P.M., the Board of County Commissioners of Monroe County, Florida, intends to consider the following:</p> <p><b>A VIRTUAL PUBLIC MEETING REGARDING APPROVAL TO APPLY TO THE DEPARTMENT OF ECONOMIC OPPORTUNITY ("DEO") FOR COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION (CDBG-MIT) FUNDING FOR THE BELOW-DESCRIBED PROJECTS:</b></p> <ol style="list-style-type: none"> <li>1. Sands Subdivision Road Elevation and Drainage Improvement Project;</li> </ol>	<p><b>59 Public Hearings</b></p> <p>ings is made, which record includes the testimony and evidence upon which the appeal is to be based.</p> <p>Dated at Key West, Monroe County, Florida, this 5th day of August, 2020.</p> <p><b>KEVIN MADOK</b>, Clerk of the Circuit Court and ex officio Clerk of the Board of County Commissioners of Monroe County, Florida          08/08/20 Key West Citizen</p> <p style="text-align: center;"><b>279 Yard Sale Map</b></p> <p><b>17 KEY HAVEN TERRACE</b>          Sat. ONLY 9am - 1pm          Family Blow out sale          2006 Honda Odyssey, kitchen cabinets, Xbox 360 &amp; games, Nintendo games, CD's, DVD player &amp; DVD's, mens/womens clothes, car bike rack, furniture, 2 kid boat tube, Tundra Factory stereo, books, tools and lots more!          No early birds</p> <p><b>27 PEQUENA LANE, BIG COPPITT</b>          Saturday 7:30-noon.          Two family yard sale.          Variety of good stuff!          Sale under still home, so rain or shine!</p> <p><b>3439 RIVIERA DR.</b>          Friday &amp; Saturday, 9 - 12          Great MCM furniture &amp; decor, original art by Steve Eid, Kate Peashey, Rick Worth &amp; more, stereo equipment, women's clothing &amp; accessories, outdoor furniture, general household, bikes &amp; so much more!          Everyone MUST wear a mask &amp; we will</p>
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**59 Public Hearings**

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In compliance with program requirements, the applications has been posted for public comment at the following website: <http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs> for a 10-day minimum public comment period.

The State of Florida, Department of Economic Opportunity has allocated \$475 Million to the General Infrastructure Program (GIP), funded through the Community Development Block Grant-Mitigation (CDBG-MIT) Program. The GIP will allow units of general local government (UGLG) to enhance community lifelines by mitigating community infrastructure.

Pursuant to Executive Order No. 20-69, Monroe County Emergency Directive 20-06, and the Center for Disease Control ("CDC") social-distancing guidelines established to contain the spread of the COVID-19 virus, the August 19, 2020, meeting of the Board of County Commissioners of Monroe County, Florida, will be conducted via Communication Media Technology ("CMT"), using a Zoom Webinar platform. Executive Order 20-179 extends EO 20-69. If the Governor issues a subsequent order changing directives for Local Government Public Meetings, the County will provide updates on the County Website at [MonroeCounty-FL.Gov](http://MonroeCounty-FL.Gov). Public Hearings will commence at 1:30P.M. Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items.

GIF

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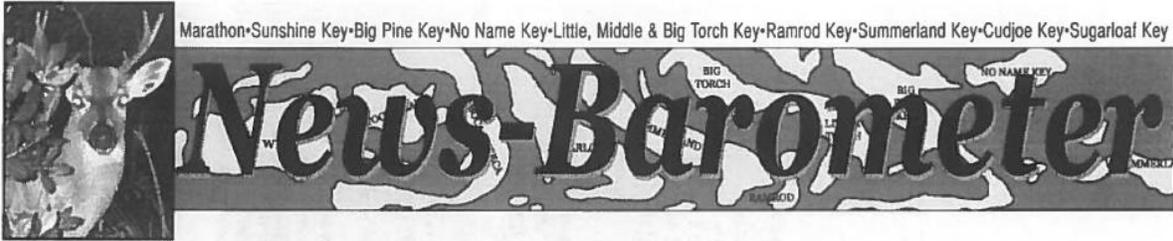
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**59 Public Hearings**

ings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Dated at Key West, Monroe County, Florida, this 5th day of August, 2020.

**KEVIN MADOK**, Clerk of the Circuit Court and ex officio Clerk of the Board of County Commissioners of Monroe County, Florida  
08/08/20 Key West Citizen



30330 Overseas Highway

P.O. Box 431639

Big Pine Key, FL 33043

Phone: 305-872-0106 Fax: 305-515-2939

**AFFIDAVIT OF PUBLICATION**

STATE OF FLORIDA  
COUNTY OF MONROE

Before the undersigned authority personally appeared Steve Estes, who on oath says that he is the Publisher for the News-Barometer, a weekly newspaper published each Friday in Big Pine Key, Monroe County, Florida; that the attached copy of advertisement, being a legal notice in the matter of:

**LEGAL NOTICE: PUBLIC HEARING CDBG-MIT DRAINAGE PROJECTS: MONROE COUNTY PLANNING & ENVIRONMENTAL RESOURCES, 102050 OVERSEAS HIGHWAY, Key Largo, FL 33037**

was published in said newspaper in the issue(s) of:  
AUGUST 14, 2020

Affiant further says that the News-Barometer is a weekly newspaper published in Big Pine Key, in said Monroe County, Florida and that said newspaper has heretofore been continuously published in said Monroe County, Florida each week and has been entered as first-class mail matter at the post office in Big Pine Key, in said Monroe County, Florida, for a period of 1 year next preceeding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

\_\_\_\_\_  
Signature of Affiant

Sworn and subscribed before me this 17TH day of AUGUST, 2020

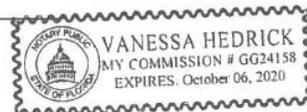
\_\_\_\_\_  
Signature of Notary

\_\_\_\_\_  
Printed Name of Notary

Expires 10/6/2020

Personally Known X Produced Identification \_\_\_\_\_

Type of Identification Produced \_\_\_\_\_





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Liz Yongue (yongue.liz@monroecounty-fl.gov)

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Pursuant to Section 286.0105, Florida Statutes, notice is given that if a person decides to appeal any decision made by the Board with respect to any matter considered at such hearings or meetings, such person will need a record of the proceedings, and that, for such purpose, such person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Dated at Key West, Monroe County, Florida, this 5th day of August, 2020.

(SEAL)

KEVIN MADOK, Clerk of the Circuit Court and
ex officio Clerk of the Board of County
Commissioners of Monroe County, Florida

LEGAL NOTICES



\*\* Unincorporated areas, City of Marathon, Layton and Key Colony Beach

NOTICE OF HEARING TO REIMPOSE AND PROVIDE FOR COLLECTION OF SOLID WASTE SERVICE SPECIAL ASSESSMENTS

Notice is hereby given that the County Commission, Monroe County, Florida will conduct a virtual public hearing to consider reimposing solid waste service assessments for the Fiscal Year beginning October 1, 2020, against certain improved residential properties located within Monroe County and the City of Marathon, Layton and Key Colony Beach to fund the cost of solid waste collection services, facilities and programs provided to such properties and to authorize collection of such assessments on the tax bill.

The virtual public hearing will be held at 5:05 p.m. on September 3, 2020, at the following virtual address: https://www.monroecounty-fl.gov/BudgetSep3, for the purpose of receiving public comment on the proposed assessments. All affected property owners have a right to appear virtually at the hearing and to file written objections with the County Commission within 20 calendar days of the date of this notice. Pursuant to section 286.0105, Florida Statutes, notice is given that if a person decides to appeal any decision made by the County Commission with respect to any matter considered at the hearing, such person will need a record of the proceedings and may need to ensure that a verbatim record is made, including the testimony and evidence upon which the appeal is to be made. In accordance with the Americans with Disabilities Act, persons needing a special accommodation or an interpreter to participate in this proceeding should contact the County Administrator at (305) 292-4441, at least 48 hours prior to the date of the hearing. If hearing impaired, contact the Florida Relay Service Number, by dialing "711" for assistance. The total annual solid waste assessment revenue to be collected within Monroe County and the City of Marathon, Layton and Key Colony Beach for the upcoming fiscal year is estimated to be \$12,900,000. The rate of assessment for the upcoming fiscal year shall be \$407.00 per residential dwelling unit. The maximum rate of assessment that can be imposed in the fiscal year commencing October 1, 2020 and future fiscal years shall be \$407.00 per residential dwelling unit. Copies of the legal documentation for the assessment program will be made available upon request by contacting the County Administrator's office at (305)292-4441 Monday through Friday, between 8:30 a.m. and 5:00 p.m..

If you have any questions, please contact the County at (305)-295-4323 or (305) 292-4536, Monday through Friday between 8:30 a.m. and 5:00 p.m.

The assessments will be collected on the ad valorem tax bill to be mailed in November 2020, as authorized by section 197.3632, Florida Statutes. Failure to pay the assessments will cause a tax certificate to be issued against the property which may result in a loss of title.

Pursuant to Executive Order No. 20-69 (extended by Executive Order Nos. 20-112, 20-139 and 20-179), Monroe County Emergency Directive 20-06, and the Center for Disease Control ("CDC") social-distancing guidelines established to contain the spread of the COVID-19 virus, this meeting will be conducted via Communication Media Technology ("CMT"), using a Zoom Webinar platform @ https://www.monroecounty-fl.gov/BudgetSep3.

The public is strongly encouraged to watch the meeting on Monroe County's MCTV on Comcast Channel 76, or listen to audio-only from their phone by dialing (646) 518-9805 or (689) 900-6833 and, when prompted, enter the Webinar ID# 989 4844 1250 followed by the #key.

The public can watch the online meeting by visiting the County's meeting portal @ http://monroecountyfl.gov/1200/Citizens/Default.aspx, and selecting the "Watch Live" banner to view with live closed-captioning on an integrated page that includes the Agenda/Agenda backup.

Or iPhone one-tap :

US: +16465189805,98346979969# or +16699006833,98346979969#

Or Telephone:

Dial (for higher quality, dial a number based on your current location):

US: +1.646.518.9805 or +1.669.900.6833

Webinar ID: 983 4697 9969

International numbers available: https://mcbocc.zoom.us/j/aaGkPNJoxC

If a person wishes to comment on a particular item on the public portion of the agenda, when the webinar monitor and/or the Mayor calls for speakers on the item on which you wish to comment:

- a) If phoning in: Dial \*9 to "raise your hand" to be recognized by the Zoom webinar monitor;
b) If watching online: click on/open the live Zoom Webinar link below: https://monroecounty-fl.gov/BudgetSep3 that appears in both the published Agenda and Agenda Packet. When prompted, enter your email address and name to join the webinar and then select the "Raised Hand" feature that appears at the bottom of the Zoom webinar screen to be recognized by the webinar monitor.

The webinar monitor/meeting host will request the Agenda Item # on which you wish to speak and will enable your participation when the Mayor calls for public speakers on your item. To report problems with the broadcast, please call (305) 872-8831.

A person may submit written or other physical evidence on a particular agenda item for consideration at the BOCC meeting to: Lindsey Ballard, via email, to: ballard.lindsey@monroecounty-fl.gov, or by mail to: The County Administrator's Office, 1100 Simonton Street, Suite 205, Key West, FL 33040. The documents must be received by 3:00 PM on Tuesday, September 1, 2020, and must include the submitter's name, address, phone number, email address, and the agenda item number to which the documents refer.

Dated at Key West, Monroe County, Florida this 7th day of August 2020.

BOARD OF COUNTY COMMISSIONERS MONROE COUNTY, FLORIDA
KEVIN MADOK, Clerk of the Circuit Court and ex officio Clerk of the
Board of County Commissioners of Monroe County, Florida



Published Weekly  
Marathon, Monroe County, Florida

**PROOF OF PUBLICATION**

**STATE OF FLORIDA  
COUNTY OF MONROE**

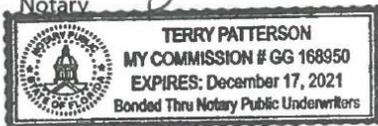
Before the undersigned authority personally appeared JASON KOLER who on oath, says that he is PUBLISHER of the WEEKLY NEWSPAPERS, a weekly newspaper published in Marathon, in Monroe County, Florida; that the attached copy of advertisement was published in said newspaper in the issues of: (date(s) of publication)

August 13, 2020

Affiant further says that the said WEEKLY NEWSPAPERS is a newspaper published at Marathon, in said Monroe County, Florida, and that the said newspaper has heretofore been continuously published in said Monroe County, Florida, once each week (on Thursday) and has been qualified as a second class mail matter at the post office in Marathon, in Monroe County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement. The affiant further says that he has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper(s) and that The Weekly Newspapers is in full compliance with Chapter 50 of the Florida State Statutes on Legal and Official Advertisements.

Sworn to and subscribed before me this 13 day of Aug, 2020.  
(SEAL)

Terry Patterson  
Notary



NOTICE OF PUBLIC HEARING NOTICE IS HEREBY GIVEN TO WHOM IT MAY CONCERN, that on Wednesday, August 19, 2020, at 1:30P.M., the Board of County Commissioners of Monroe County, Florida, intends to consider the following: A VIRTUAL PUBLIC MEETING REGARDING APPROVAL TO APPLY TO THE DEPARTMENT OF ECONOMIC OPPORTUNITY ("DEO") FOR COMMUNITY DEVELOPMENT BLOCK GRANT-MITIGATION (CDBG-MIT) FUNDING FOR THE BELOW-DESCRIBED PROJECTS:  
1. Sands Subdivision Road Elevation and Drainage Improvement Project: \$8.5

- Million
- 2. Twin Lakes Road Elevation and Drainage Improvement Project: \$7.1 Million
- 3. Stillwright Point Road Elevation and Drainage Improvement Project: \$21 Million
- 4. Public Works and Fleet Maintenance Facility Relocation to Rockland Key: \$13.7 Million
- 5. Big Coppitt Key Road Elevation and Drainage Improvement Project: \$8.5 Million

In compliance with program requirements, the applications has been posted for public comment at the following website: <http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs> for a 10-day public comment period.

The State of Florida, Department of Economic Opportunity has allocated \$475 Million to the General Infrastructure Program (GIP), funded through the Community Development Block Grant-Mitigation (CDBG-MIT) Program. The GIP will allow units of general local government (UGLG) to enhance community lifelines by mitigating community infrastructure.

Pursuant to Executive Order No. 20-69, Monroe County Emergency Directive 20-06, and the Center for Disease Control ("CDC") social-distancing guidelines established to contain the spread of the COVID-19 virus, the August 19, 2020, meeting of the Board of County Commissioners of Monroe County, Florida, will be conducted via Communication Media Technology ("CMT"), using a Zoom Webinar platform. Executive Order 20-179 extends EO 20-69. If the Governor issues a subsequent order changing directives for Local Government Public Meetings, the County will provide updates on the County Website at [MonroeCounty-FL.Gov](http://MonroeCounty-FL.Gov). Public Hearings will commence at 1:30P.M. Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items.

The public is strongly encouraged to watch the meeting on Monroe County's MCTV Comcast Channel 76, or listen to audio-only from their phones by dialing (646) 518-9805 and, when prompted, enter the Webinar ID number 982 2806 0317 followed by the # key.

The public can watch the meeting online by visiting the County's meeting portal at: <http://monroecountyfl.com/Citizens/Default.aspx> to view with live closed-captioning on an integrated page that includes the Agenda/Agenda backup.

If a person wishes to comment on a particular item on the agenda, when the Mayor calls for speakers on the item on which you wish to comment:  
a) If phoning in: Dial \*9 to "raise your hand" to be recognized by the Zoom webinar monitor;  
b) If watching online: open the Zoom Webinar link below: <https://mcbooccl.zoom.us/j/98228060317>

When prompted, enter your email address and name to join the webinar and be recognized by the meeting monitor. The live Zoom Webinar link also appears in the published Agenda and Agenda Packet.

A person may submit written or other physical evidence on a particular agenda item for consideration at the BOCC meeting to: Lindsey Ballard, via email, to: [ballard-lindsey@monroecounty-fl.gov](mailto:ballard-lindsey@monroecounty-fl.gov), or by mail to: The County Administrator's Office, 1100 Simonton Street, Key West, FL 33040. The documents must be received

by 9:00A.M. on Monday, August 16, 2020, and must include the submitter's name, address, phone number, email address, and the agenda item number to which the documents refer. For additional assistance, please call (305) 292-4441, or email your request to your request or inquiry to: Lindsey Ballard ([ballard-lindsey@monroecounty-fl.gov](mailto:ballard-lindsey@monroecounty-fl.gov)), or Liz Yongue ([yongue-liz@monroecounty-fl.gov](mailto:yongue-liz@monroecounty-fl.gov))

ADA ASSISTANCE: If you are a person with a disability who needs special accommodation in order to participate in this meeting, please contact the County Administrator's Office, by phoning (305) 292-4441, between the hours of 8:30 a.m.—5:00 p.m., no later than five (5) calendar days prior to the scheduled meeting; if you are hearing-or voice-impaired, call \*711\*.

Pursuant to Section 286.0105, Florida Statutes, notice is given that if a person decides to appeal any decision made by the Board with respect to any matter considered at such hearings or meetings, such person will need a record of the proceedings, and that, for such purpose, such person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Dated at Key West, Monroe County, Florida, this 5<sup>th</sup> day of August, 2020.

KEVIN MADOK, Clerk of the Circuit Court and ex officio Clerk of the Board of County Commissioners of Monroe County, Florida  
Publish:  
August 13, 2020  
The Weekly Newspapers



## Attachment 2: Print-out of Monroe County webpage showing public notice posted on August 6, 2020

<http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs>

Home » Services / Programs » Hurricane Irma Recovery » Rebuild Florida » CDBG-Mitigation Programs

### CDBG-MITIGATION PROGRAMS

The U.S. Department of Housing and Urban Development (HUD) announced that \$833 million in first-of-its-kind funding would be available to the state of Florida for disaster mitigation projects in [areas impacted](#) by presidentially declared disasters in 2018 and 2017. These funds are available through HUD's newly created Community Development Block Grant - Mitigation (CDBG-MIT) and will be used to fund disaster mitigation programs to better protect Florida from future disasters:

#### DEO has launched all of the CDBG-Mitigation Programs

1. **Critical Facility Hardening Program (CFHP) (\$75 Million)** launched on April 15 with a submission deadline of June 30, 2020.  
  
Staff requested approval from the Board of County Commissioners at their June 17, 2020 meeting to submit two grant applications for the CFHP. The following application were submitted to the Florida Department Economic Opportunity on June 23, 2020.  
  
Hardening of the [Tavernier Fire Station #22](#)  
  
Hardening of the [Monroe County Sheriff's Office Detention Center on Stock Island](#)
2. **General Planning Support (GPS) (\$20 Million)** launched on May 15, 2020 with a submission deadline of July 30, 2020.  
  
General Planning Support Grant Application submitted to DEO on July 28, 2020. Below is the submitted grant application. ([LINK](#)) We are now awaiting notification from the Florida Department of Economic Opportunity.  
  
[Florida Keys Regional Resilience Plan and Neighborhood Livability Outreach and Planning](#)
3. **General Infrastructure Program- Round 1 Funding (CDBG-MIT funding \$475 Million)** launched on June 15, 2020 with a deadline of September 14, 2020. Monroe County intends to submit the following grant applications to the Florida Department of Economic Opportunity upon approval of the Monroe County Board of County Commissioners. In compliance with the program guidelines, Monroe County will host a virtual public meeting on **August 19, 2020 at 1:30 pm**. The notice of the public hearing will be posted in a Citizen and the Keys Weekly at least 5 days prior to the virtual public meeting and is located [here](#). Public comments on these proposed grant applications may be submitted via email to the contact listed below from August 3, 2020 through September 3, 2020.
  1. [Sands Subdivision Road Elevation and Drainage Improvement Project: \\$8.5 Million](#)
  2. [Twin Lakes Road Elevation and Drainage Improvement Project: \\$ 7.1 Million](#)
  3. [Stillwright Point Road Elevation and Drainage Improvement Project: \\$21 Million](#)
  4. [Public Works and Fleet Maintenance Facility Relocation to Rockland Key : \\$ 13.7 Million](#)
  5. [Bje Coppitt Key Road Elevation and Drainage Improvement Project: \\$8.5 Million](#)

#### Public Comments

Public comments on the proposed applications will be accepted as required by the US Department of Housing and Urban Development. To submit public comment, send an email to [Wetherington-Helene@monroecounty-fl.gov](mailto:Wetherington-Helene@monroecounty-fl.gov)

#### Additional Information

For additional information on the Florida Department of Economic Opportunity Rebuild Florida mitigation grant programs go to <http://www.floridajobs.org/rebuildflorida/mitigation>.



**Attachment 3: Evidence of a public meeting with the Monroe County Board of County Commissioners**



**Attachment 3a: Excerpts from the Monroe County Board of County Commissioners August 19, 2020 Board Agenda.**

Public Hearings are listed in Section Q. The full Agenda may be viewed online at <http://monroecountyfl.igq2.com/citizens/FileOpen.aspx?Type=14&ID=1139&Inline=True>.



**REVISED AGENDA**

**MONROE COUNTY BOARD OF COUNTY COMMISSIONERS**

**PUBLIC NOTICE**

**August 19, 2020 Regular Meeting**

**Zoom webinar:** <http://www.monroecounty-fl.gov/BOCCMeetingAugust19>

**To report problems with the broadcast or Zoom webinar, please call (305) 872-8831.**

Pursuant to Executive Order No. 20-69 (extended by Executive Orders No. 20-112, 20-139, 20-150 and 20-179); Monroe County Emergency Directives 20-06 and 20-10; and the Center for Disease Control ("CDC") social distancing guidelines established to contain the spread of the COVID-19 virus; the **August 19, 2020 Meeting** of the Board of County Commissioners of Monroe County, FL will be conducted via Communication Media Technology ("CMT") using a Zoom Webinar platform. **The meeting will commence at 9:00 A.M.** Below are the various options available to the public to view the live meeting and/or to make public comments on certain agenda items during the public portion of the meeting.

**The public is strongly encouraged to watch the meeting on Monroe County's MCTV on Comcast Channel 76 or AT&T UVerse Channel 99.** Also, if a citizen has a **Roku** device, they can search for and add "MCTV" to their personal lineup. Monroe County's "MCTV" is also provided via the Monroe County mobile apps for **iOS** and **Android** and through our streaming web portal @ <https://monroe-fl.vod.castus.tv/vod/?live=chl&nav=live>. **Citizens can listen to audio only from their phone by dialing (646) 518-9805 or (669) 900-6833 and, when prompted, enter the Webinar ID# 982 2806 0317 followed by the # key.**

**The public can watch the Zoom webinar on the County's web portal**, as done prior to COVID-19, by visiting the County's meeting portal @ <http://monroecountyfl.igq2.com/Citizens/Default.aspx> and selecting the "Watch Live" banner. This option allows you to view the live meeting with live closed captioning on an integrated page that includes the agenda and agenda backup.

**The public can comment on a particular item(s) on the public portion of the agenda either by phoning in or using the live Zoom webinar link (see instructions for each option below).**

- a) **To comment on an item by phone:** Dial (646) 518-9805 or (669) 900-6833 and, when prompted, enter the Webinar ID# 982 2806 0317 followed by the # key, then \*9 to "Raise your hand" to be recognized by the Zoom webinar host.
- b) **To comment on an item using the live Zoom webinar link:** Open this **live Zoom webinar link** @ <http://www.monroecounty-fl.gov/BOCCMeetingAugust19> (that also appears in both the published Agenda and Agenda Packet). When prompted, enter your email address and name to join the webinar. When the Mayor calls for speakers on the item(s) you wish to comment on, or when the Board is nearing your item(s) as the meeting progresses, **select the "Raised Hand" feature** that appears at the bottom of the Zoom webinar screen to be recognized by the Zoom webinar host.

The Zoom webinar host will request the item # you wish to speak on and enable your participation when the Mayor calls for public speakers on your item. **To report problems with the broadcast or participation in the Zoom webinar, please call (305) 872-8831.**

A person may submit written comments or other physical evidence on a particular agenda item for consideration at the BOCC meeting via email to Liz Yongue @ [yongue-liz@monroecounty-fl.gov](mailto:yongue-liz@monroecounty-fl.gov), County Administrator's Office, no later than **3:00 P.M. on Monday, August 17, 2020**. The email must include the submitter's name, address, phone number and email address and the agenda item number the documents/comments are regarding. **For additional assistance**, please call (305) 292-4441 or email your inquiry to: [yongue-liz@monroecounty-fl.gov](mailto:yongue-liz@monroecounty-fl.gov).



**1:30 P.M. Q. PUBLIC HEARINGS**

1. **COUNTY ATTORNEY:** A Public Hearing to consider amendments to Ordinance No. 024-2020 (amended mask ordinance adopted 7/21/2020) and Ordinance No. 025-2020 (closures/alcohol ban during lobster mini season as adopted 7/27/20) in response to COVID-19 pandemic.
2. **ENGINEERING AND ROADS:** A Public Hearing to consider adoption of an Ordinance revising Section 19-4 of the Monroe County Code to increase the toll rates for Card Sound Road Toll.
3. **LOCAL DISASTER RECOVERY:** A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Sands Subdivision Road Elevation and Storm Water Drainage Improvement Project, which will elevate and improve drainage on Father Tony Way in Big Pine Key, in the amount of \$8.5 Million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the Federal Housing and Urban Development Agency (HUD), after a duly noticed 10 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.
4. **LOCAL DISASTER RECOVERY:** A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Twin Lakes Subdivision Road Elevation and Drainage Improvement Project, which will elevate and improve drainage in the Twin Lakes Subdivision, in the amount of \$7.1 Million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the U.S. Department of Housing and Urban Development (HUD), after a duly noticed 10 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.
5. **LOCAL DISASTER RECOVERY:** A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Stillwright Point Subdivision Road Elevation and Stormwater Drainage Improvement Project, which will elevate and improve drainage within the Stillwright Point Subdivision, in the amount of \$21 Million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the U.S. Department of Housing and Urban Development (HUD), after a duly noticed 10 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.



1:30 P.M. Q. PUBLIC HEARINGS (CONTINUED)

6. **LOCAL DISASTER RECOVERY:** A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Big Coppitt Key Road Elevation and Stormwater Drainage Improvement Project, which will elevate and improve drainage within Big Coppitt Key, in the amount of \$8.5 Million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the US Department of Housing and Urban Development (HUD), after a duly noticed 10 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.
7. **LOCAL DISASTER RECOVERY:** A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Public Works Facility Maintenance Building Relocation, which will relocate the building from the Key West International Airport to Rockland Key, in the amount of \$13.7 Million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the U.S. Department of Housing and Urban Development (HUD), after a duly noticed 10 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.

R. COMMISSIONER'S COMMENTS

S. ADD ONS

1. **BUDGET AND FINANCE:** Approval to advertise a Budget Amendment for the Law Enforcement Trust Fund, Fund 162. The budget amendment is needed to accommodate the new directive issued by the Department of Justice and the Department of Treasury to transition the Sheriff's equitable sharing accounts to the county finance offices.
2. **COUNTY ATTORNEY:** Approval of a pre-litigation settlement agreement with K2M Design, Inc. to resolve issues arising from design of the Customs Terminal Security Enhancements at Key West International Airport, through which K2M will pay \$150,000 to resolve all claims.



Attachment 3b: Agenda Item for Grant Application



Q.3

County of Monroe  
The Florida Keys



**BOARD OF COUNTY COMMISSIONERS**  
Mayor Heather Carruthers, District 3  
Mayor Pro Tem Michelle Coldiron, District 2  
Craig Cates, District 1  
David Rice, District 4  
Sylvia J. Murphy, District 5

**County Commission Meeting**  
**August 19, 2020**  
**Agenda Item Number: Q.3**  
**Agenda Item Summary #7149**

**BULK ITEM:** No

**DEPARTMENT:** Local Disaster Recovery

**TIME APPROXIMATE:**  
1:30 P.M. PUBLIC HEARING

**STAFF CONTACT:** Judith Clarke (305) 295-4329

**AGENDA ITEM WORDING:** A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Sands Subdivision Road Elevation and Storm Water Drainage Improvement Project, which will elevate and improve drainage on Father Tony Way in Big Pine Key, in the amount of \$8.5 Million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the Federal Housing and Urban Development Agency (HUD), after a duly noticed 10 day public comment period; after a 5 day public notice and Approval to submit grant application to DEO.

**ITEM BACKGROUND:**

Hurricane Irma, a Category 4 hurricane, made landfall in the Florida Keys on September 10, 2017, causing the destruction and significant flooding of low-lying areas throughout the Florida Keys. Congress appropriated \$633 Million for the State of Florida in the aftermath of Hurricane Irma for the Community Development Block Grant - Mitigation (CDBG-MIT) Program. The Florida Department of Economic Opportunity developed an Action Plan and allocated \$475 Million for the General Infrastructure Program. In Round 1 Funding, \$150 Million will be available (Round 2 - \$175 Million in 2021, Round 3 - \$150 Million in 2022). In order to build more resilient neighborhoods countywide which are in the highest risk for sea level rise, staff request approval to submit a CDBG-MIT grant application to elevate and improve stormwater drainage to Father Tony Way on Big Pine Key in the amount of \$8.5 Million in CDBG-MIT funds.

DEO Program Parameters follow:

Packet Pg. 2982



### 2.3 Rebuild Florida General Infrastructure Program (GIP) Overview

The GIP program is designed to provide funding to units of general local government (UGLG), state agencies, non-profits and non-governmental organizations to implement innovative, collaborative, multi-jurisdictional and/or large-scale mitigation activities that reduce previously-identified hazard risks for local communities to better withstand emergency-related challenges. These regional investments include, but are not limited to, upgrading of water, sewer, solid waste, communications, energy, transportation, health and medical and other public infrastructure projects.

DEO has allocated \$475,000,000 in CDBG-MIT funding for the GIP program. DEO will use a subrecipient model to deliver funding for approved projects. Funding will be awarded to selected subrecipients through a request for applications (RFA) process in accordance with established application guidelines and evaluation criteria. This is not a direct grant program.

An overview of the GIP program is illustrated in **Table 2**.



Q.3

Table 2: General Infrastructure Program Summary

Rebuild Florida General Infrastructure Program	
Funding Dollars	\$475,000,000
Funding Percentage	75%
Application Type	Subrecipient
Applicant Eligibility	UGLG, state agencies and other applicants including, but not limited to, non-profits and non-governmental agencies that apply in partnership with their local UGLG or state agencies.
Geographic Eligibility	HUD and State-Designated MID areas
National Objectives Fulfilled	LMI and Urgent Need
Hazard Risks Addressed	Flooding, Severe Storms, Tropical Cyclones, Coastal Erosion, Wildfires
Lifelines Protected	Safety and Security, Food, Water and Shelter, Health and Medical, Energy, Communication, Transportation, and Hazardous Materials

- Maximum amount per applicant: \$475,000,000
- Minimum amount per applicant: \$500,000

The GIP program will be implemented in three rounds: Round I will provide an initial allocation of resources to units of local government (UGLG) and entities that apply in partnership with their UGLG. \$150 million will be available in Round I. The state anticipates that regional coalitions and local governments or local public entities will act as partners in the implementation of this program.

Round II will commence in 2021. \$175 million and any remaining unobligated funding from Round I will be made available in Round II. Round III will commence in 2022. All remaining funding, including unobligated funds, will be made available to fund projects submitted for the \$150 million allocation for Round III.

This meeting serves as a public meeting to hear public comment. The County has met the CDBG-MIT and DEO requirements for notice and documentation. As per the grant requirements, public notice of this virtual public meeting, and public notice of the 10-day public comment period was published in the Citizen, as the newspaper of general circulation in Monroe County and also posted to the County's website.

Packet Pg. 2984



Q.3

No match funding is required.

Administrative funding to manage the grant is: \$405,724.

Contact Person: Judith Clarke may be reached via email at [Clarke-Judith@monroecounty-fl.gov](mailto:Clarke-Judith@monroecounty-fl.gov). Monroe County's application for CDBG-DR Mitigation funds can be found at [monroecounty-fl.gov/irmarecovery](http://monroecounty-fl.gov/irmarecovery) website.

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**PREVIOUS RELEVANT BOCC ACTION:** N/A

---

**CONTRACT/AGREEMENT CHANGES:**  
NA

---

**STAFF RECOMMENDATION:** APPROVE

---

**DOCUMENTATION:**

[gip-guidelines\\_6-12-20](#)  
Draft CDBG-MIT GIP Sands Road Application All 07-20-2020

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**FINANCIAL IMPACT:**

**Effective Date:** PENDING  
**Expiration Date:**

**Total Dollar Value of Contract:** NA  
**Total Cost to County:** Monroe County BOCC has previously dedicated \$365,500 to design the road elevation and drainage improvement project for Big Pine Key. The design is currently at 90% completion and ready for construction.

**Current Year Portion:** NA

**Budgeted:** No

**Source of Funds:** NA

**CPI:**

**Indirect Costs:**

**Estimated Ongoing Costs Not Included in above dollar amounts:**

**Revenue Producing:** NA      **If yes, amount:**

**Grant:** \$ 8.5 Million which includes a 5% administrative cost

**County Match:** \$ 0

**Insurance Required:** 0

**Additional Details:**

Packet Pg. 2985



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**REVIEWED BY:**

Helene Wetherington	Completed	07/27/2020 8:58 AM
Assistant County Administrator Christine Hurley	Completed	Completed
	07/28/2020 4:57 PM	
Judith Clarke	Completed	07/29/2020 2:27 PM
Rhonda Haag	Completed	07/29/2020 3:59 PM
Christine Limbert	Completed	07/29/2020 5:06 PM
Purchasing	Completed	07/29/2020 5:57 PM
Budget and Finance	Completed	07/30/2020 1:27 PM
Maria Slavik	Completed	07/30/2020 1:40 PM
Kathy Peters	Completed	07/31/2020 9:00 AM
Board of County Commissioners	Pending	08/19/2020 9:00 AM



**4. Documentation of a meeting must include sign-in sheets and minutes**



Attachment 4a: List of Participants from Virtual Meeting Log In Data

Participant	Location	Time In	Time out
12158735054	(US )	1:37 PM	01:49 PM(12158735054 left the meeting.)
12158735054	(US )	1:49 PM	01:51 PM(12158735054 left the meeting.)
12158735054	(US )	1:56 PM	02:02 PM(12158735054 left the meeting.)
13052944641	(US )	9:24 AM	09:57 AM(13052944641 left the meeting.)
13052967171	(US )	11:41 AM	11:49 AM(13052967171 left the meeting.)
13053044180	(US )	10:46 AM	10:46 AM(13053044180 left the meeting.)
13053044180	(US )	11:15 AM	11:20 AM(13053044180 left the meeting.)
13053228913	(US )	9:40 AM	10:31 AM(13053228913 left the meeting.)
13053408526	(US )	10:56 AM	11:26 AM(13053408526 left the meeting.)
13053408526	(US )	12:02 PM	12:03 PM(13053408526 left the meeting.)
13053408526	(US )	1:32 PM	02:12 PM(13053408526 left the meeting.)
13053935808	(US )	1:42 PM	02:43 PM(13053935808 left the meeting.)
13053951710	(US )	1:53 PM	01:54 PM(13053951710 left the meeting.)
13054693660	(US )	10:32 AM	10:51 AM(13054693660 left the meeting.)
13055092177	(US )	8:57 AM	08:58 AM(13055092177 left the meeting.)
13055092177	(US )	9:00 AM	12:06 PM(13055092177 left the meeting.)
13055092177	(US )	1:31 PM	01:42 PM(13055092177 left the meeting.)
13057319972	(US )	1:34 PM	02:15 PM(13057319972 left the meeting.)
19549133300	(US )	1:55 PM	02:43 PM(19549133300 left the meeting.)
Alan MacEachern	Key West (US )	8:45 AM	02:43 PM(Alan MacEachern Host closed meeting
Alexsa Leto	Key West (US )	8:50 AM	10:29 AM(Alexsa Leto disconnect from the meeting)
Alexsa Leto	Key West (US )	10:29 AM	12:39 PM(Alexsa Leto disconnect from the meeting)
Alexsa Leto	Key West (US )	12:39 PM	02:43 PM(Alexsa Leto Host closed meeting
Alicia Betancourt UF_IFAS	Key West (US )	9:02 AM	02:43 PM(Alicia Betancourt UF_IFAS left the meeting.)
Amanda Leggett	Key West (US )	8:44 AM	12:03 PM(Amanda Leggett left the meeting.)
Amanda Leggett	Key West (US )	1:21 PM	02:43 PM(Amanda Leggett Host closed meeting
andrew sikora	Key Largo (US )	12:59 PM	01:00 PM(andrew sikora left the meeting.)
andrew sikora	Key Largo (US )	1:24 PM	02:38 PM(andrew sikora left the meeting.)
Annalise Mannix Candidate for County Commission	Key West (US )	8:57 AM	12:03 PM(Annalise Mannix Candidate for County Commission left the meeting.)
Annalise Mannix Candidate for County Commission	Key West (US )	02:43 PM	02:43 PM(Annalise Mannix Candidate for County Commission Host closed meeting
AT	Miami (US )	1:45 PM	02:36 PM(AT left the meeting.)
Bob Shillinger	Key West (US )	8:39 AM	02:43 PM(Bob Shillinger Host closed meeting
Bob Shillinger	Key West (US )	8:38 AM	08:39 AM(Bob Shillinger left the meeting.)
brandy	Marathon (US )	8:42 AM	02:43 PM(brandy left the meeting.)
brandy	Marathon (US )	8:42 AM	08:42 AM(brandy left the meeting.)
Bruce Halle	Marathon (US )	9:36 AM	09:37 AM(Bruce Halle left the meeting.)
Bruce Halle	Marathon (US )	8:51 AM	09:35 AM(Bruce Halle left the meeting.)
Bruce Halle	Marathon (US )	9:37 AM	09:37 AM(Bruce Halle left the meeting.)
Bryan Cook	Key West (US )	8:48 AM	12:03 PM(Bryan Cook left the meeting.)
Bryan Cook	Key West (US )	1:28 PM	02:43 PM(Bryan Cook Host closed meeting



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Bryce	Key West (US )	9:08 AM	02:43 PM(Bryce Host closed meeting
callahan-james	Tampa (US )	8:51 AM	02:43 PM(callahan-james Host closed meeting
Campo-Abra	Key West (US )	8:52 AM	02:43 PM(Campo-Abra Host closed meeting
Carleen Flynn	(US )	10:25 AM	10:57 AM(Carleen Flynn left the meeting.)
Carol Schreck	Key West (US )	8:49 AM	12:10 PM(Carol Schreck left the meeting.)
Carol Schreck	Key West (US )	1:25 PM	02:43 PM(Carol Schreck Host closed meeting
Cary Knight	Key West (US )	8:57 AM	02:43 PM(Cary Knight Host closed meeting
Cates-Craig	Key West (US )	8:39 AM	02:43 PM(Cates-Craig Host closed meeting
Cates-Craig	Key West (US )	8:35 AM	08:39 AM(Cates-Craig left the meeting.)
Cathy Crane	Key West (US )	9:05 AM	02:43 PM(Cathy Crane Host closed meeting
Cheryl Cioffari	Key West (US )	9:09 AM	11:36 AM(Cheryl Cioffari disconnect from the meeting)
Cheryl Cioffari	Key West (US )	12:04 PM	12:05 PM(Cheryl Cioffari left the meeting.)
Cheryl Cioffari	Key West (US )	2:10 PM	02:43 PM(Cheryl Cioffari Host closed meeting
Cheryl Sullivan	Key West (US )	9:00 AM	12:03 PM(Cheryl Sullivan left the meeting.)
Cheryl Sullivan	Key West (US )	1:26 PM	02:43 PM(Cheryl Sullivan Host closed meeting
Chip Kasper	Florida (US )	9:35 AM	10:17 AM(Chip Kasper left the meeting.)
Christina Brickell	Key West (US )	9:02 AM	02:31 PM(Christina Brickell disconnect from the meeting)
clarke-judith	Key West (US )	11:19 AM	11:25 AM(clarke-judith left the meeting.)
clarke-judith	Key West (US )	2:22 PM	02:36 PM(clarke-judith left the meeting.)
clarke-judith	Key West (US )	8:45 AM	11:19 AM(clarke-judith left the meeting.)
clarke-judith	Key West (US )	11:25 AM	02:22 PM(clarke-judith left the meeting.)
clarke-judith	Key West (US )	2:36 PM	02:43 PM(clarke-judith Host closed meeting
Clerk Kevin Madok	Key West (US )	8:27 AM	02:43 PM(Clerk Kevin Madok Host closed meeting
Coldiron-Michelle	Key West (US )	8:39 AM	02:43 PM(Coldiron-Michelle Host closed meeting
Coldiron-Michelle	Key West (US )	8:36 AM	08:38 AM(Coldiron-Michelle left the meeting.)
Coldiron-Michelle	Key West (US )	8:39 AM	08:39 AM(Coldiron-Michelle left the meeting.)
cutie-lisette	Key West (US )	8:42 AM	08:48 AM(cutie-lisette left the meeting.)
Cynthia Hall	Key West (US )	9:00 AM	09:06 AM(Cynthia Hall left the meeting.)
D. A. Aldridge	Tavernier (US )	9:01 AM	12:03 PM(D. A. Aldridge left the meeting.)
D. A. Aldridge	Tavernier (US )	1:22 PM	02:43 PM(D. A. Aldridge Host closed meeting
Daryl Greenlee	Key West (US )	8:46 AM	08:49 AM(Daryl Greenlee left the meeting.)
Daryl Greenlee	Key West (US )	9:07 AM	02:43 PM(Daryl Greenlee Host closed meeting
Deputy Clerk Hancock	Key West (US )	8:32 AM	02:43 PM(Deputy Clerk Hancock Host closed meeting
Deputy Clerk Hancock	Key West (US )	8:27 AM	08:32 AM(Deputy Clerk Hancock left the meeting.)
Diane Schmidt	Key West (US )	9:17 AM	11:11 AM(Diane Schmidt left the meeting.)
diaz-christine	Key West (US )	9:13 AM	11:47 AM(diaz-christine left the meeting.)
DiNovo-Joseph	Key West (US )	8:58 AM	02:43 PM(DiNovo-Joseph Host closed meeting
Dottie	Key Largo (US )	2:13 PM	02:43 PM(Dottie Host closed meeting
eadierx	Tallahassee (US )	9:46 AM	10:17 AM(eadierx left the meeting.)
eadierx	Tallahassee (US )	9:19 AM	09:45 AM(eadierx left the meeting.)
eadierx	Tallahassee (US )	10:17 AM	10:18 AM(eadierx left the meeting.)
eadierx	Tallahassee (US )	1:38 PM	02:13 PM(eadierx left the meeting.)
Ed Koconis	Key West (US )	10:18 AM	10:23 AM(Ed Koconis left the meeting.)



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Ed Koconis	Key West (US )	9:03 AM	10:18 AM(Ed Koconis left the meeting.)
Ed Koconis	Key West (US )	10:23 AM	02:43 PM(Ed Koconis Host closed meeting
Elizabeth Young	Key West (US )	8:55 AM	02:43 PM(Elizabeth Young Host closed meeting
Emergency Management	Key West (US )	10:00 AM	10:04 AM(Emergency Management left the meeting.)
Emergency Management	Ashburn (US )	10:01 AM	01:22 PM(Emergency Management left the meeting.)
Emergency Management	Key West (US )	1:26 PM	02:12 PM(Emergency Management left the meeting.)
Emilie Stewart	Key Largo (US )	12:54 PM	12:54 PM(Emilie Stewart left the meeting.)
Emilie Stewart	Key Largo (US )	1:19 PM	01:19 PM(Emilie Stewart left the meeting.)
Emilie Stewart	Key Largo (US )	1:30 PM	02:36 PM(Emilie Stewart left the meeting.)
Emily Schemper	Key West (US )	8:57 AM	12:03 PM(Emily Schemper left the meeting.)
Emily Schemper	Key West (US )	1:14 PM	02:43 PM(Emily Schemper Host closed meeting
Erin Deady	Lake Worth (US )	1:46 PM	02:37 PM(Erin Deady left the meeting.)
Gabe Price	Key West (US )	8:28 AM	02:43 PM(Gabe Price left the meeting.Reason: Host ended the meeting.)
Gabe Price	Key West (US )	8:27 AM	08:28 AM(Gabe Price left the meeting.)
Gabriela Henri	Florida (US )	9:06 AM	09:11 AM(Gabriela Henri left the meeting.)
Gabriela Henri	Florida (US )	8:34 AM	08:34 AM(Gabriela Henri left the meeting.)
Gabriela Henri	Florida (US )	8:55 AM	09:06 AM(Gabriela Henri left the meeting.)
Gabriela Henri	Florida (US )	9:11 AM	09:11 AM(Gabriela Henri left the meeting.)
Gambuzza-Dina	Key West (US )	9:17 AM	09:20 AM(Gambuzza-Dina left the meeting.)
Gambuzza-Dina	Key West (US )	8:50 AM	09:17 AM(Gambuzza-Dina left the meeting.)
Gambuzza-Dina	Key West (US )	9:20 AM	09:20 AM(Gambuzza-Dina left the meeting.)
Gambuzza-Dina	Key West (US )	12:33 PM	12:35 PM(Gambuzza-Dina left the meeting.)
Gastesi-Roman	Key West (US )	9:00 AM	02:43 PM(Gastesi-Roman Host closed meeting
Gastesi-Roman	Key West (US )	9:00 AM	09:00 AM(Gastesi-Roman left the meeting.)
George Smyth	Key Largo (US )	1:15 PM	02:43 PM(George Smyth Host closed meeting
Ginny Stones	Key West (US )	9:18 AM	09:19 AM(Ginny Stones left the meeting.)
Ginny Stones	Key West (US )	8:55 AM	09:18 AM(Ginny Stones left the meeting.)
Ginny Stones	Key West (US )	9:20 AM	09:20 AM(Ginny Stones left the meeting.)
Greg Corning	Bradenton (US )	12:11 PM	12:12 PM(Greg Corning left the meeting.)
Greg Corning	Ohio (US )	1:24 PM	01:39 PM(Greg Corning left the meeting.)
Greg Corning	Ohio (US )	1:44 PM	02:00 PM(Greg Corning left the meeting.)
griffin-rick	Key West (US )	9:45 AM	09:52 AM(griffin-rick disconnect from the meeting)
griffin-rick	Key West (US )	9:52 AM	10:03 AM(griffin-rick left the meeting.)
griffin-rick	Key West (US )	10:36 AM	10:46 AM(griffin-rick disconnect from the meeting)
griffin-rick	Key West (US )	10:46 AM	10:46 AM(griffin-rick left the meeting.)
Guerra-Cynthia	Key West (US )	9:24 AM	09:35 AM(Guerra-Cynthia left the meeting.)
Guerra-Cynthia	Key West (US )	9:05 AM	09:24 AM(Guerra-Cynthia left the meeting.)
Guerra-Cynthia	Key West (US )	9:35 AM	09:38 AM(Guerra-Cynthia left the meeting.)
Guerra-Maria	Key West (US )	11:54 AM	12:03 PM(Guerra-Maria left the meeting.)
Guerra-Maria	Key West (US )	1:29 PM	02:43 PM(Guerra-Maria Host closed meeting
Gunderson-Janet	Key West (US )	9:59 AM	02:43 PM(Gunderson-Janet Host closed meeting
Hitchins-Celia	Key West (US )	9:00 AM	10:17 AM(Hitchins-Celia left the meeting.)
Hurley-Christine	Key West (US )	9:24 AM	09:35 AM(Hurley-Christine left the meeting.)



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Hurley-Christine	Key West (US )	10:18 AM	10:23 AM(Hurley-Christine left the meeting.)
Hurley-Christine	Key West (US )	8:59 AM	09:24 AM(Hurley-Christine left the meeting.)
Hurley-Christine	Key West (US )	9:35 AM	10:17 AM(Hurley-Christine left the meeting.)
Hurley-Christine	Key West (US )	10:23 AM	12:03 PM(Hurley-Christine left the meeting.)
Hurley-Christine	Key West (US )	1:30 PM	02:43 PM(Hurley-Christine Host closed meeting
Jesse Wagner	Key West (US )	1:54 PM	01:55 PM(Jesse Wagner left the meeting.) 08:32 AM(Jethon Williams II left the meeting.Reason: Removed by host.)
Jethon Williams II	Key West (US )	8:27 AM	
Jodi & Scott	Key West (US )	9:44 AM	09:48 AM(Jodi & Scott left the meeting.)
Joe	Tampa (US )	8:45 AM	09:06 AM(Joe left the meeting.)
Joe Tuttle	Key West (US ) Key Largo (US )	9:16 AM	12:12 PM(Joe Tuttle left the meeting.)
John	)	9:30 AM	10:55 AM(John left the meeting.)
Jon Rizzo	Key West (US )	9:47 AM	10:17 AM(Jon Rizzo left the meeting.)
Jon Rizzo	Key West (US )	9:24 AM	09:47 AM(Jon Rizzo left the meeting.)
Jon Rizzo	Key West (US ) Summerland Key (US )	10:17 AM	10:17 AM(Jon Rizzo left the meeting.)
Karrie Porter Bond	Key (US )	11:06 AM	11:33 AM(Karrie Porter Bond left the meeting.)
Kathryn Norris	Key West (US )	9:00 AM	12:03 PM(Kathryn Norris left the meeting.)
Kathryn Norris	Key West (US )	12:50 PM	02:43 PM(Kathryn Norris Host closed meeting
Katie Atkins	Key West (US )	9:02 AM	12:03 PM(Katie Atkins left the meeting.)
Katie Atkins	Key West (US )	1:38 PM	02:43 PM(Katie Atkins Host closed meeting
Kelly A. Cummings	Key West (US )	8:58 AM	02:43 PM(Kelly A. Cummings Host closed meeting
Ken Marshall	Key West (US )	9:36 AM	09:51 AM(Ken Marshall left the meeting.)
Kevin Wilson	Key West (US )	8:44 AM	12:03 PM(Kevin Wilson left the meeting.)
Kevin Wilson	Key West (US )	1:26 PM	02:38 PM(Kevin Wilson left the meeting.)
Kevin Wilson	Key West (US )	2:38 PM	02:41 PM(Kevin Wilson disconnect from the meeting)
Kevin Wilson	(US ) Key Largo (US )	2:41 PM	02:43 PM(Kevin Wilson Host closed meeting
Key Largo Chamber	)	2:29 PM	02:43 PM(Key Largo Chamber Host closed meeting
Kimberly Matthews	Key West (US )	10:55 AM	11:05 AM(Kimberly Matthews left the meeting.)
Kimberly Matthews	Key West (US )	8:48 AM	09:30 AM(Kimberly Matthews disconnect from the meeting)
Kimberly Matthews	Key West (US )	9:30 AM	09:47 AM(Kimberly Matthews disconnect from the meeting)
Kimberly Matthews	Key West (US )	9:47 AM	10:55 AM(Kimberly Matthews left the meeting.)
Kimberly Matthews	Key West (US )	11:05 AM	02:43 PM(Kimberly Matthews Host closed meeting
Kristen Livengood	Key West (US )	9:06 AM	09:11 AM(Kristen Livengood left the meeting.)
Kristen Livengood	Key West (US )	11:10 AM	11:14 AM(Kristen Livengood left the meeting.)
Kristen Livengood	Key West (US )	8:53 AM	09:06 AM(Kristen Livengood left the meeting.)
Kristen Livengood	Key West (US )	9:11 AM	09:20 AM(Kristen Livengood left the meeting.)
Kristen Livengood	Key West (US )	9:21 AM	09:25 AM(Kristen Livengood left the meeting.)
Kristen Livengood	Key West (US )	9:28 AM	09:48 AM(Kristen Livengood disconnect from the meeting)
Kristen Livengood	Key West (US )	10:02 AM	10:48 AM(Kristen Livengood disconnect from the meeting)
Kristen Livengood	Key West (US )	10:52 AM	11:10 AM(Kristen Livengood left the meeting.)
Kristen Livengood	Key West (US )	11:14 AM	11:28 AM(Kristen Livengood left the meeting.)
Limberty-Christine	Key West (US )	9:24 AM	09:35 AM(Limberty-Christine left the meeting.)
Limberty-Christine	Key West (US )	11:19 AM	11:25 AM(Limberty-Christine left the meeting.)
Limberty-Christine	Key West (US )	8:52 AM	08:54 AM(Limberty-Christine left the meeting.)



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Limbert-Christine	Key West (US )	8:56 AM	09:24 AM(Limbert-Christine left the meeting.)
Limbert-Christine	Key West (US )	9:35 AM	11:19 AM(Limbert-Christine left the meeting.)
Limbert-Christine	Key West (US )	11:25 AM	12:04 PM(Limbert-Christine left the meeting.)
Limbert-Christine	Key West (US )	1:28 PM	02:43 PM(Limbert-Christine Host closed meeting)
Lindsey Ballard	Key West (US )	8:48 AM	02:43 PM(Lindsey Ballard Host closed meeting)
Lindsey Ballard	Key West (US )	8:48 AM	08:48 AM(Lindsey Ballard left the meeting.)
Lisa Tennyson	Key West (US )	8:58 AM	02:23 PM(Lisa Tennyson left the meeting.)
Lisa Tennyson	Key West (US )	2:34 PM	02:43 PM(Lisa Tennyson Host closed meeting)
maddox-natalie	Key West (US )	8:52 AM	09:17 AM(maddox-natalie left the meeting.)
Manuel Castillo	Key West (US )	11:32 AM	12:03 PM(Manuel Castillo left the meeting.)
Manuel Castillo	Key West (US )	9:02 AM	09:04 AM(Manuel Castillo left the meeting.)
Manuel Castillo	Key West (US )	9:20 AM	11:32 AM(Manuel Castillo left the meeting.)
Manuel Castillo	Key West (US )	12:03 PM	01:31 PM(Manuel Castillo left the meeting.)
mark 32 S Blackwater	Key Biscayne (US )	1:30 PM	02:37 PM(mark 32 S Blackwater left the meeting.)
Marston Fowler	Prairieville (US )	9:25 AM	09:35 AM(Marston Fowler left the meeting.)
Marston Fowler	Prairieville (US )	9:03 AM	09:25 AM(Marston Fowler left the meeting.)
Mayor Carruthers	Key West (US )	8:39 AM	12:13 PM(Mayor Carruthers left the meeting.)
Mayor Carruthers	Key West (US )	1:21 PM	02:43 PM(Mayor Carruthers Host closed meeting)
Mayor Carruthers	Key West (US )	8:39 AM	08:39 AM(Mayor Carruthers left the meeting.)
Mayor Carruthers	Key West (US )	1:15 PM	01:21 PM(Mayor Carruthers left the meeting.)
McPherson-Cynthia	Key West (US )	9:06 AM	09:11 AM(McPherson-Cynthia left the meeting.)
McPherson-Cynthia	Key West (US )	8:50 AM	09:06 AM(McPherson-Cynthia left the meeting.)
McPherson-Cynthia	Key West (US )	9:11 AM	02:43 PM(McPherson-Cynthia Host closed meeting)
MCTVKW	Key West (US )	8:28 AM	02:43 PM(MCTVKW Host closed meeting)
MCTVKW	Key West (US )	8:28 AM	08:28 AM(MCTVKW left the meeting.)
Mercado-Pedro	Key West (US )	9:04 AM	12:03 PM(Mercado-Pedro left the meeting.)
Mercado-Pedro	Key West (US )	1:53 PM	02:43 PM(Mercado-Pedro Host closed meeting)
Mike Roberts	Key West (US )	9:03 AM	10:02 AM(Mike Roberts left the meeting.)
Morris-Peter	Key West (US )	9:10 AM	09:17 AM(Morris-Peter left the meeting.)
murphy-sylvia	Key West (US )	8:32 AM	02:43 PM(murphy-sylvia Host closed meeting)
murphy-sylvia	Key West (US )	8:32 AM	08:32 AM(murphy-sylvia left the meeting.)
Participant	Location	Join Time	Leave Time
pattison-charles	Key West (US )	9:18 AM	09:20 AM(pattison-charles left the meeting.)
pattison-charles	Key West (US )	8:50 AM	09:18 AM(pattison-charles left the meeting.)
pattison-charles	Key West (US )	9:20 AM	01:23 PM(pattison-charles left the meeting.)
Perez-JoseA	Key West (US )	9:04 AM	02:43 PM(Perez-JoseA Host closed meeting)
Peters-Katherine	Key West (US )	8:47 AM	02:43 PM(Peters-Katherine Host closed meeting)
Rhonda Haag	Key West (US )	2:30 PM	02:36 PM(Rhonda Haag left the meeting.)
Rhonda Haag	Key West (US )	9:03 AM	02:30 PM(Rhonda Haag left the meeting.)
Rhonda Haag	Key West (US )	2:36 PM	02:43 PM(Rhonda Haag Host closed meeting)
rice-david	Marathon (US )	8:43 AM	08:43 AM(rice-david left the meeting.)
rice-david	Marathon (US )	8:43 AM	08:47 AM(rice-david left the meeting.)
rice-david	Marathon (US )	8:43 AM	08:43 AM(rice-david left the meeting.)
rice-david	Marathon (US )	8:47 AM	08:50 AM(rice-david left the meeting.)



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Rodriguez-Monica	Key West (US )	8:57 AM	02:43 PM(Rodriguez-Monica Host closed meeting
Rosch-Mark	Key West (US )	9:18 AM	09:19 AM(Rosch-Mark left the meeting.)
Rosch-Mark	Key West (US )	8:51 AM	09:17 AM(Rosch-Mark left the meeting.)
Rosch-Mark	Key West (US )	9:19 AM	02:43 PM(Rosch-Mark Host closed meeting
Scull-Paunece	Key West (US )	8:27 AM	12:10 PM(Scull-Paunece left the meeting.)
Scull-Paunece	Key West (US )	1:29 PM	02:21 PM(Scull-Paunece left the meeting.)
Sheryl Graham	Key West (US )	12:03 PM	12:04 PM(Sheryl Graham left the meeting.)
Sheryl Graham	Key West (US )	1:15 PM	02:43 PM(Sheryl Graham Host closed meeting
Shryl Graham	Key West (US )	11:32 AM	12:03 PM(Shryl Graham left the meeting.)
Shryl Graham	Key West (US )	9:04 AM	11:32 AM(Shryl Graham left the meeting.)
Slavik-Maria	Key West (US )	9:31 AM	12:35 PM(Slavik-Maria disconnect from the meeting)
Slavik-Maria	Key West (US )	12:35 PM	02:43 PM(Slavik-Maria Host closed meeting
srusso	Key Largo (US )	8:57 AM	12:04 PM(srusso left the meeting.)
srusso	Key Largo (US )	1:26 PM	02:43 PM(srusso Host closed meeting
Stacey Mitchell	Key West (US )	9:39 AM	09:45 AM(Stacey Mitchell left the meeting.)
Stacey Mitchell	Key West (US )	9:11 AM	09:18 AM(Stacey Mitchell left the meeting.)
Stacey Mitchell	Key West (US )	9:19 AM	09:39 AM(Stacey Mitchell left the meeting.)
Stacey Mitchell	Key West (US )	9:45 AM	11:26 AM(Stacey Mitchell disconnect from the meeting)
Stacey Mitchell	Key West (US )	1:35 PM	02:13 PM(Stacey Mitchell left the meeting.)
Stephen G.	Mt. Pleasant (US )	11:50 AM	02:03 PM(Stephen G. left the meeting.)
Strickland-Richard	Key West (US )	1:37 PM	01:43 PM(Strickland-Richard left the meeting.)
Strickland-Richard	Key West (US )	8:57 AM	12:03 PM(Strickland-Richard left the meeting.)
Strickland-Richard	Key West (US )	1:31 PM	01:37 PM(Strickland-Richard left the meeting.)
Strickland-Richard	Key West (US )	1:43 PM	02:43 PM(Strickland-Richard Host closed meeting
terry gross	(US )	1:47 PM	01:49 PM(terry gross left the meeting.)
terry gross	(US )	1:50 PM	02:43 PM(terry gross Host closed meeting
Tiffany Duong	Sacramento (US )	9:00 AM	02:43 PM(Tiffany Duong Host closed meeting
Tina Boan	Key West (US )	9:21 AM	09:24 AM(Tina Boan left the meeting.)
Tina Boan	Key West (US )	8:36 AM	08:43 AM(Tina Boan disconnect from the meeting)
Tina Boan	Key West (US )	8:43 AM	08:48 AM(Tina Boan disconnect from the meeting)
Tina Boan	Key West (US )	8:56 AM	09:12 AM(Tina Boan disconnect from the meeting)
Tina Boan	Key West (US )	9:12 AM	09:21 AM(Tina Boan left the meeting.)
Tina Boan	Key West (US )	9:24 AM	02:43 PM(Tina Boan Host closed meeting
weiner-shannon	Key West (US )	9:47 AM	09:55 AM(weiner-shannon left the meeting.)
weiner-shannon	Key West (US )	9:55 AM	10:17 AM(weiner-shannon left the meeting.)
Weiner-Shannon	Key West (US )	8:27 AM	08:31 AM(Weiner-Shannon left the meeting.)
weiner-shannon	Key West (US )	8:27 AM	09:47 AM(weiner-shannon left the meeting.)
weiner-shannon	Key West (US )	9:55 AM	09:55 AM(weiner-shannon left the meeting.)
weiner-shannon	Key West (US )	10:17 AM	02:43 PM(weiner-shannon Host closed meeting
Wetherington-Helene	Key West (US )	2:11 PM	02:36 PM(Wetherington-Helene left the meeting.)
Wetherington-Helene	Cleveland (US )	8:54 AM	10:25 AM(Wetherington-Helene left the meeting.)
Wetherington-Helene	Key West (US )	10:26 AM	12:03 PM(Wetherington-Helene left the meeting.)
Wetherington-Helene	Key West (US )	1:15 PM	01:18 PM(Wetherington-Helene left the meeting.)



*Monroe County Sands Subdivision Road Mitigation Project*

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Wetherington-Helene wetherington- helene@monroecounty-fl.gov	Key West (US )	1:21 PM	02:10 PM(Wetherington-Helene left the meeting.) 02:43 PM(wetherington-helene@monroecounty-fl.gov Host closed meeting
william lay	Key West (US ) Fort Lauderdale (US )	2:42 PM	
william lay	Fort Lauderdale (US )	8:40 AM	01:16 PM(william lay left the meeting.)
Williams-Steve	(US )	1:17 PM	02:26 PM(william lay left the meeting.)
Williams-Steve	Key West (US )	8:55 AM	12:03 PM(Williams-Steve left the meeting.)
Yzenas-Michelle	Key West (US )	1:23 PM	02:43 PM(Williams-Steve Host closed meeting
Yzenas-Michelle	Key West (US )	9:57 AM	02:43 PM(Yzenas-Michelle left the meeting.)
Yzenas-Michelle	Key West (US )	10:27 AM	10:30 AM(Yzenas-Michelle left the meeting.)



## Attachment 4b: Meeting Minutes

INSERT MEETING MINUTES FROM <https://minutes.monroe-clerk.com/WebLink/Browse.aspx?id=268583&dbid=0&repo=Monroe-County-Clerk-of-the-Court>

### MINUTES OF THE MONROE COUNTY BOARD OF COUNTY COMMISSIONERS

Regular Meeting  
Board of County Commissioners  
Wednesday, August 19, 2020  
Via Communication Media Technology

A regular meeting of the Monroe County Board of County Commissioners convened at 9:00 a.m. via Communication Media Technology. Present and answering to roll call were Commissioner Craig Cates, Commissioner Michelle Coldiron, Commissioner Sylvia Murphy, Commissioner David Rice, and Mayor Heather Carruthers. Also present at the meeting were Roman Gastesi, County Administrator; Bob Shillinger, County Attorney; Kevin Madok, Clerk of Court; Pamela Hancock, Deputy Clerk; county staff, members of the press and radio; and the general public.

#### Items Q3, Q4, Q5, Q6, Q7 on pages 16 and 17.

Helene Wetherington, Director of Disaster Recovery, gave a Power Point Presentation regarding the following five items (Q3 to Q7):

Q3 A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Sands Subdivision Road Elevation and Storm Water Drainage Improvement Project, which will elevate and improve drainage on Father Tony Way in Big Pine Key, in the amount of \$8.5 million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the Federal Housing and Urban Development Agency, after a duly noticed 10 day public comment period; after a 5 day public notice and approval to submit grant application to DEO.

Q4 A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Twin Lakes Subdivision Road Elevation and Drainage Improvement Project, which will elevate and improve drainage in the Twin Lakes Subdivision, in the amount of \$7.1 million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the U.S. Department of Housing and Urban Development, after a duly noticed 10 day public comment period; after a 5 day public notice and approval to submit grant application to DEO.

Q5 A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Stillwright Point Subdivision Road Elevation and Stormwater Drainage Improvement Project, which will elevate and improve drainage within the Stillwright Point Subdivision, in the amount of \$21 million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic



Opportunity (DEO) funded through the U.S. Department of Housing and Urban Development, after a duly noticed 10 day public comment period; after a 5 day public notice and approval to submit grant application to DEO.

Q6 A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Big Coppitt Key Road Elevation and Stormwater Drainage Improvement Project, which will elevate and improve drainage within Big Coppitt Key, in the amount of \$8.5 million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the US Department of Housing and Urban Development, after a duly noticed 10 day public comment period; after a 5 day public notice and approval to submit grant application to DEO.

Q7 A Public Hearing/Meeting for citizens and municipalities to provide input on an application for grant funds for the Public Works Facility Maintenance Building Relocation, which will relocate the building from the Key West International Airport to Rockland Key, in the amount of \$13.7 million utilizing Community Development Block Grant - Mitigation, General Infrastructure Program funding from the Florida Department of Economic Opportunity (DEO) funded through the U.S. Department of Housing and Urban Development, after a duly noticed 10 day public comment period; after a 5 day public notice and approval to submit grant application to DEO.

Ms. Clarke and Rhonda Haag, Chief Resilience Officer, addressed the Board. The following individuals addressed the Board: Dotti Moses, Andrew Sikora, George Smyth, Emilie Stewart, Stephanie Russo and Mark Stearn. After discussion, motion was made by Commissioner Rice and seconded by Commissioner Coldiron granting approval of Items Q3 through Q7. Motion carried unanimously.



## **Attachment 4c. Public Comments Received at the Public Hearing on 8/19/2020**

### **Dotty Mosses, Key Largo**

Question: Will the grant have to be awarded in the full amount or could the state fund only a portion?

Answer: There is no local match requirement. If funded, the state would fund the project at the full amount.

Question: How will the County fund long-term maintenance? Would the gas tax be used to maintain the road.

Answer: Through general revenue as directed by the BOCC. The operations cost of a pump station is the largest cost and will vary over time. Toward the end of the life span of the equipment and rising seas, the costs for maintenance will go up. The current estimates for the pump station begin at \$17,000 / year. Over time the costs will increase up to \$ 200,000 per year as the pumps must run more frequently. The BOCC may also seek alternate revenue sources to fund sea level rise initiatives in the long-term.

Question: Where will the new Public Works facility be located?

Answer: On Rockland Key.

### **Andy Sikora, Stillwright Point**

He thanked the county for applying for the grant and requests approval to submit the application. Stillwright Point is an average income community and not a rich community. Flooding is a very big problem for the 200 people that live in the Stillwright Point neighborhood. It floods very severely, and it didn't flood as severely in the past. One of the reasons is the king tide and sea level rise.

### **George Smyth**

He thanked the County in applying for the grant and encouraged board to approve application submission. He also urged the Board to continue to keep the neighborhoods updated.

### **Emilie Stewart**

She thanked the Board for moving forward with the grant application. Last year the flooding started on September 1, and the community hopes it won't be as bad this year.

### **Stephanie Russo**



She supports the grant application and thanked the Board for their efforts.

Question: Are there other funding sources for sea level rise projects?

Answer: Yes, the county is looking into BRIC funding from FEMA. The Commission has also received notice that the State legislature may be released some grant funds through the WISE grant for Transportation and Infrastructure projects. They are looking for shovel ready projects. Contact the congress man to find out more.

**Mark Stearn, Stillwright Point**

Thanked the Board for moving forward in applying for grant funds for mitigation projects. He reiterated that these are very important projects for the neighborhood. He chose to retire in this neighborhood many years ago and it did not flood. The community is surrounded by mangroves and, therefore, they can't mitigate the flooding. He want to enjoy the keys in retirement. He appreciates the county's support.



### Attachment 4d: Powerpoint Presentation of the Public Hearing 8-19-2020

CDBG-MIT BOCC Public Hearing 08-19-2020

9/9/2020

COMMUNITY DEVELOPMENT BLOCK GRANT – MIT  
HURRICANE IRMA FUNDING

**INFRASTRUCTURE MITIGATION PROGRAM**  
\$633,485,000 STATEWIDE

AUGUST 19, 2020



**Grant Criteria**

- Benefit Low to Moderate Income Families
- Innovative, collaborative, multi-jurisdictional and/or large-scale mitigation activities
- Reduction of risk to community Lifelines
- Minimum \$500,000 with a Maximum of \$475 Million

**Purpose**

- In order to build more resilient neighborhoods countywide which are in the highest risk for sea level rise, staff requests approval to submit a CDBG-MIT grant application for the following projects:
  - Q.3. Sands Subdivision Road Elevation and Drainage Improvement: \$ 8.5 Million
  - Q.4. Twin Lakes Road Elevation and Drainage Improvement: \$7.1 Million
  - Q.5. Stillwright Point Road Elevation and Drainage Improvement: \$ 22 Million
  - Q.6. Big Coppitt Road Elevation and Drainage Improvement: \$ 8.5 Million
  - Q.7. Public Works Facility Maintenance Relocation to Rockland Key: \$ 13.7 Million
- Note: this project order does not represent a ranking. Each project will be evaluated against the State required criteria.
- Total Funding Request: \$58.8 Million (Total Available Funding Statewide Round 1: \$150 Million)

**Sands Subdivision Road Elevation and Drainage Improvement (Agenda Item Q3)**

- **Purpose:** Reduce Flooding and Maintain Access to Neighborhood
- **Project:** Elevate Father Tony Way and Install Drainage Improvement Structures
- **Cost:** \$8.5 Million
- **Contact:** Judith Clarke, Senior Director, [Clarke-Judith@monroecounty-fl.gov](mailto:Clarke-Judith@monroecounty-fl.gov)

**Twin Lakes Road Elevation and Drainage Improvement (Agenda Item Q4)**

- **Purpose:** Reduce Flooding and Maintain Access to Neighborhood
- **Project:** Elevate Roadway and Install Drainage Improvement Structures
- **Cost:** \$7.1 Million
- **Contact:** Judith Clarke, Senior Director, [Clarke-Judith@monroecounty-fl.gov](mailto:Clarke-Judith@monroecounty-fl.gov)



### Stillwright Point Road Elevation and Drainage Improvement (Agenda Item Q5)

- **Purpose:** Reduce Flooding and Maintain Access to Neighborhood
- **Project:** Elevate Roadway and Install Drainage Improvement Structures
- **Cost:** \$21 Million
- **Contact:** *Judith Clarke, Senior Director,* [Clarke-Judith@monroecounty-fl.gov](mailto:Clarke-Judith@monroecounty-fl.gov)



### Big Coppitt Stormwater Drainage Improvement (Agenda Item Q6)

- **Purpose:** Reduce Flooding and Maintain Access to the Johnsonville Subdivision Neighborhood
- **Project:** Elevate Roadway and Install Drainage Improvement Structures
- **Cost:** \$8.5 Million
- **Contact:** *Judith Clarke, Senior Director,* [Clarke-Judith@monroecounty-fl.gov](mailto:Clarke-Judith@monroecounty-fl.gov)



### Public Works Maintenance Facility Relocation (Agenda Item Q7)

- **Purpose:** Relocate the facility from the Key West International Airport to a lower risk site on Stock Island
- **Project:** Demolish Facilities Maintenance Facility and Construct New Facility
- **Cost:** \$13.7 Million
- **Contact:** *Kevin Wilson, Wilson-Kevin@Monroecounty-fl.gov*



### Public Participation

- A Public Notice was released as follows:
  - Citizen: Sat., 08/08/2020
  - Keys Weekly: Thur., 08/13/2020
  - News Barometer: Fri., 08/14/2020
- Public Hearing on August 19, 2020
- Applications are posted at the following website: <http://www.monroecounty-fl.gov/1200/CDBG-Mitigation-Programs>
  - At least a 10 Day Public Comment Period

### Contact Information

CDBG-MIT Contact:  
 Helene Wetherington, Disaster Recovery Director  
[Wetherington-Helene@MonroeCounty-fl.gov](mailto:Wetherington-Helene@MonroeCounty-fl.gov)

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