

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW)

ADDENDUM NO. 8
DECEMBER 1, 2023

PROJECT: South Dade Transit Operations Center (SD TOC)
Project No. CIP227A-DTPW22-CT

BID DUE DATE: December 4, 2023; 2:00 PM.

FROM: Miami-Dade County DTPW
Contract Services Division
111 NW First Street, 14th Floor
Miami, FL 33128
305.375.2930

TO: Prospective Bidders and Interested Parties

This Addendum forms part of the project solicitation documents and will be incorporated into the Contract Documents, as applicable. Insofar as the Original Contract Documents, Drawings and Specifications are inconsistent, this Addendum shall govern. Please acknowledge receipt of this Addendum, at the time of bid submittal to Miami-Dade County, in the space provided on the "Acknowledgement of Addenda Form" provided with the project solicitation documents. Failure to acknowledge receipt of all addenda may be cause for disqualification.

CHANGES TO DRAWINGS:

Please find attached, and under the link below, the revised Section 01 11 00 – Summary of Work. Changes are shown in red under the attachment 01 11 00 - Summary of Work_R1 (Track Changes)

Link: [CIP227A-DTPW-CT South Dade TOC Addendum No. 8](#)

END OF ADDENDUM NO. 8

ATTACHMENTS:

- 01 11 00 - Summary of Work_R1 (Clean)
- 01 11 00 - Summary of Work_R1 (Track Changes)



Alfredo E. Munoz, P.E.
Department of Transportation and Public Works (DTPW)
Chief, Capital Improvements Division

AM:kf

c:

Marco Movilla, DTPW	Katherine Fernandez, DTPW	Alejandro Martinez-Esteve, DTPW
Eric Perez, ISD	Caesar Suarez, ISD	Laurie Johnson SBD
Laurie Johnson, ISD	Ahmed Rasheed, DTPW	Basam Moubayed, DTPW
Isabel Padron, DTPW	Javier Bustamante, DTPW	Clerk of the Board
Rakeshpal Gill, DTPW	Alejandro Barrios, DTPW	File
Maria Perdomo, DTPW		

01 11 00 - Summary of Work_R1 (Clean)

01 11 00 – SUMMARY OF WORK

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work to be performed under this Contract shall be as shown on the Contract Drawings, as specified in the Specification with special provisions and in accordance with the Contract documents and the following requirements. This section includes general requirements applicable to the Contract. This section, alone, does not represent the complete work.
- B. The Work, in general, consists of the construction of the South Dade Transit Operations Center facilities and related infrastructure including roadway improvements along Biscayne Drive, SW 127th Avenue, and along SW 129th Court as described in the Bid Items listed within this specification and the Contract documents. The work includes but is not limited to, furnishing all supervision, labor, materials, equipment, tools, services, and incidentals necessary for the construction of the South Dade Transit Operations Center and associated roadway improvements.
- C. Envision Certification: This project is pursuing an Envision Certification, version 3, with an achievement level of **Silver or better**, pathway A (Design + Post-Construction), which is administered by the Institute for Sustainable Infrastructure (ISI). Refer to the specification Division 1, Section 01 81 13 “Sustainable Project Requirements” and the Sustainability Management Plan, refer to Volume IV “Supporting Documentation: of the Contract Documents. The Contractor is responsible for the implementation and compliance of the Sustainability Management Plan as provided and described in the Contract documents and shall provide the necessary documentation for the preparation of the required post-construction package for submittal to the Institute for Sustainable Infrastructure (ISI). The Contractor shall validate, confirm and communicate to Owner within 30-days of NTP, the commitments made to achieve at least Envision v3 **Silver or better** prior to the submittal of the documentation. There are several sustainability strategies that are embedded within the contract documents that support the Envision Framework. The Envision requirements focus on quality assurance, developing an Envision Action Plan, and periodic reporting. Contractor shall comply with the Envision contract requirements below:
1. Submit a certified letter indicating intent to comply
 2. Submit an Envision Action Plan
 3. Schedule an Envision Pre-Construction Coordination Meeting

SPECIFICATIONS

4. Retain an accredited Envision Coordinator with ENV SP (Sustainable Professional) credentials
 5. Provide supporting documentation for pending Envision credits
 6. Submit quarterly Envision Progress Reports
 7. Submit a final certified letter indicating compliance
- D. All utility coordination work for the project, including, but not limited to, the following:
1. MD-WASD for the installation of water and sewer service at the facility and its surroundings. Comply with the requirements of the MD-WASD and DTPW agreement ID# 32051, refer to Volume V “Permits and Agreements” of the Contract Documents. Contractor to schedule preconstruction meeting with WASD. It is the contractor’s responsibility to perform all work to be done under WASD supervision and pay for such work, inclusive of all fees.
 2. AT&T for the installation of all infrastructures from the point of connection to the point designated in the Contract Documents. Contractor is responsible for payment of all fees and costs associated with this work.
 3. FPL for the installation of all power service equipment and infrastructure and bringing power from FPL point of connection. Contractor to coordinate with FPL accordingly for the completion of the work. Contractor shall comply with FPL specifications and requirements for the FPL vault and duct bank included as part construction documents, refer to Volume V “Permits and Agreements” of the Contract Documents. The Contractor performing the construction of the FPL vault and FPL duct bank (whether prime or sub) shall be an FPL “Approved Contractor”.
- E. Specialty Engineer: The scope of work includes designing, furnishing and/or installing the following pre-engineered systems/components:
1. Architectural:
 - a. Pedestrian bridge.
 - b. Pedestrian bridge cladding/louwer.
 - c. Exterior metal studs at exterior metal ceiling and infill areas between pre-cast and structure
 - d. Canopy structures/polycarbonate cladding at parking garage and golf cart parking.
 - e. Catwalk.
 2. Structural:

- a. Building 1:
 - 1) Steel frame connections.
 - 2) Railing connections to steel frame.
- b. Building 1A:
 - 1) Louver Enclosure frame system.
- c. Building 2:
 - 1) Precast façade panels.
 - 2) Prestressed soffit beams.
 - 3) Prestressed joist.
 - 4) Precast columns.
 - 5) Canopies Connections.
 - 6) Louver Enclosure frame system.
 - 7) 3" RGS Conduit supports between electrical room and equipment enclosure.
- d. Building 3:
 - 1) Precast Façade panels (by manufacturer, depending on the schedule)
 - 2) Pre-engineered bridge spans
 - 3) Gantry crane rails
- e. Building 3A (Pedestrian Bridge):
 - 1) Steel truss superstructure connections
 - 2) Exterior metal panels including the connections to steel truss superstructure.
- f. Building 4:
 - 1) Precast façade panels.
- g. Building 5:

- 1) Precast façade panels.
- h. Building 6:
 - 1) Roof open Joists.
 - 2) Precast façade panels.
3. Equipment:
 - a. Paint booth exhaust stack fastening/tie-down calculations.
4. Mechanical/Plumbing:
 - a. Required for all equipment, piping, and ductwork or supports mounted exposes doors. Items that don't have a NOA, particularly custom-designed or alternate items, will need to be signed and sealed by Contractor's delegated specialty engineer:
 - 1) Exhaust fans and ductwork on the roof.
 - 2) Air-cooled chillers.
 - 3) Generator and fuel tank.
 - 4) Chilled water underground piping.
 - 5) Underground water and oil separators – concrete deadman anchor calculations and design to compensate for tank buoyancy.
5. Power:
 - a. Power system studies which include coordination, short circuit, load flow, arc flash, and cable ampacity studies.
- F. Final design of the power distribution grounding system.
- G. Contractor to coordinate with manufacturer's specialty engineer for the installation, testing and commissioning of the charging equipment.
- H. Coordination for Off-duty Law enforcement Officer for Traffic Control plan, as required.
- I. The South Dade Transit Operations Center Project will be performed at the following location:
 1. Northwest quadrant of Biscayne Drive and SW 127th Avenue, Homestead, Florida

J. The Project shall be constructed and turned over to the County in two phases, Phase I and Phase II, with the objective of the County being able to occupy and/or use buildings 2, 3, 4, 4A, and 5 at the completion of Phase I upon receipt of a Temporary Certificate of Occupancy (TCO). Contractor shall schedule and sequence the scope of work accordingly to meet the requirements below. For a graphical representation, refer to the Construction Phasing drawing provided at the end of this specification.

1. Scope of Work

a. Phase I includes:

- 1) Site work includes but not limited to tree removal & relocation (if Option is exercised), removal of existing utilities, installation and connection of all underground utilities (including electrical, fire protection, water, etc.), all duct banks (including electrical, communications, etc.), storm and sanitary sewers, drainage, earthwork (including cut & fill, embankment, etc.) perimeter fencing & gates, rigid asphalt pavement, signage, pavement markings, site lighting, traffic pre-emption signal, sidewalks, and driveways connecting to Biscayne Drive.
- 2) Building 1 Main Electrical Room and associated infrastructure required to supply power (including electrical systems, duct banks, etc.) to all buildings to be completed under Phase I.
- 3) Building 1A installation, testing, commissioning of generator and associated infrastructure to operate said generator.
- 4) Building 2 – Parking Garage, associated ramps, inclusive of systems and associated infrastructure including ITS room(s) and duct bank(s).
- 5) Building 3 – Service & Wash Facility including ITS room(s) and duct bank(s).
- 6) Building 4 – FPL Vaults and FPL duct bank including duct banks providing power to charging equipment located in Building 2.
- 7) Building 4A – Security Gate Facility including ITS room(s) and duct bank(s).
- 8) Building 5 – Bus Security Gate & Vault Pull Facility including Main ITS room and duct bank(s).
- 9) Execution of Option 1, if exercised by the County.
- 10) Execution of Option 2, if exercised by the County.
- 11) Execution of Option 3, if exercised by the County.

- 12) Execution of Option 4, if exercised by the County.
- b. Phase II includes:
- 1) Site work including but not limited to landscaping, driveways connecting to SW 127th Avenue, roadway improvements along SW 127th including roadway lighting, shared used path (SUP), sidewalks, drainage, signage, pavement markings, flexible pavement, roadway landscaping, roadway improvements along SW 129th Court including drainage, roadway widening, signage, pavement markings and roadway landscaping.
 - 2) Building 1 – Bus Maintenance & Operations Facility including ITS room(s) and duct bank(s).
 - 3) Building 1A – Support Area Facilities (Chiller, Garbage & Generator)
 - 4) Building 3A – Pedestrian Bridge
 - 5) Building 6 – Gate Arm Maintenance Facility including ITS room(s) and duct bank(s).
2. Construction milestones for the described phases are as follows:
- a. Phase I – NTP + 300 days including the following intermediate milestones:
- 1) NTP + 90 days – FPL Vault & FPL duct bank must be inspected, approved, and accepted by FPL and turned over to FPL to commence installation of FPL equipment within FPL Vault and FPL duct bank. Contractor shall obtain TCO from Building Department if required prior to hand over of FPL Vault & duct bank for installation of FPL equipment.
 - 2) NTP + 180 days – ITS rooms and communications duct banks located within buildings 2, 3, 4A and 5 (Main ITS room). Contractor shall submit and comply with the MDC ITD Equipment Room Acceptance Form, provided at the end of this specification, to obtain acceptance from MDC ITD before hand over to start of their scope of work (refer to Responsibility Matrix provided at the end of this specification). Additionally, Contractor shall coordinate all construction activities related to the ITD room and communication duct banks. Furthermore, Contractor shall notify MDC ITD prior to construction activities take place and grant access during such activities for MDC ITD to inspect and/or witness the execution of the work associated with ITD equipment and communications duct bank.
- b. Phase II – NTP + 700 days including the following intermediate milestones:

- 1) NTP + 580 days – ITS rooms and communications duct banks located within buildings 1 and 6. Contractor shall submit and comply with the MDC ITD Equipment Room Acceptance Form, provided at the end of this specification, to obtain acceptance from MDC ITD before hand over to start of their scope of work (refer to Responsibility Matrix provided at the end of this specification). Additionally, Contractor shall coordinate all construction activities related to the ITD room and communication duct banks. Furthermore, Contractor shall notify MDC ITD prior to construction activities take place and grant access during such activities for MDC ITD to inspect and/or witness the execution of the work associated with ITD equipment and communications duct bank.
 - c. As stipulated under Sub-Article 8.F, Liquidated Damages and Liquidated Indirect Costs, in Volume I of V of the Standard Construction General Conditions, full liquidated damages shall apply to each milestone.
3. Temporary Certificate of Occupancy (TCO) requirements
- a. Contractor shall schedule and meet with Building Department regarding the TCO requirements for each building and construction phase prior to development of the Construction schedule to understand the TCO requirements to deliver Phase I and Phase within the construction duration.
 - b. Temporary Certificate of Occupancy is dependent on compliance of all Life Safety Systems for a particular building including but not limited to:
 - 1) Water Extension (connection)
 - 2) Fire Pump
 - 3) Fire Suppression System
 - 4) Fire Hydrants
 - 5) Fire Extinguisher
 - 6) Common Path
 - 7) Power supply
 - 8) E-Stops
 - 9) Emergency lighting
 - 10) Emergency signage
 - 11) All related Life Safety related Items

- c. Distributed Antenna System (DAS) is not a TCO requirement.
 - d. All Life Safety systems shall be inspected, tested, approved, and fully commissioned by AHJ to receive a Temporary Certificate of Occupancy (TCO).
- K. The Project for Bidding will be divided into the following Bid Items as presented in the Bid Form.
- 1. Bid item 1: Mobilization (For entire project)
 - a. This Bid Item includes all items relevant to the Mobilization for the entire Project.
 - b. This Bid Item shall be Lump Sum in accordance with Specification Section 01 71 13 – Mobilization.
 - 2. Bid Item 2: General Requirements (For entire project)
 - a. This Bid Item includes all items relevant to the General Requirements and Conditions of the Contract and all Division 01 items.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
 - 3. Bid Item 3: On-Site Improvements
 - a. This Bid Item includes all work and costs related to the on-site work within the property limits including but not limited to clearing and grubbing, earthwork, drainage, dewatering, fencing, landscaping, irrigation, pavement, signing and pavement markings, utilities, and site lighting (for more information, please refer to Division 31 and 32).
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
 - 4. Bid Item 4: Building 01 – Bus Maintenance and Operations Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 01 Bus Maintenance and Operations Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, security and communications, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

5. Bid Item 5: Building 1A – Support Area Facilities (Chiller, Garbage & Generator)
 - a. This Bid Item includes all work and costs necessary for the construction of Building 1A Support Area Facilities (Chiller, Garbage & Generator Facility) including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and security and communications.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

6. Bid Item 6: Building 02 – Parking Garage & Access Ramps
 - a. This Bid Item includes all work and costs necessary for the construction of Building 02 Parking Garage & Access Ramps including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, security and communications, and landscaping.

The table below defines the equipment and responsibilities of the Owner and Contractor under the Base bid and Option 1 (for more information, refer to Sections 11 11 36.14 & 11 11 36.20).

TABLE 1 – BEB CHARGING EQUIPMENT RESPONSIBILITY												
	OWNER (NFI)						CONTRACTOR					
	F	I	T	A	C	W	F	I	T	A	C	W
BASE BID	✓		✓	✓	✓	✓		✓				
✓ - Charging Cabinets ✓ - Pantograph Dispensers ✓ - Pantograph DC Outlet Boxes ✓ - Pantograph RFID ✓ - Pantograph WiFi ✓ - Remote Plug-Ins Dispenser Unit ✓ - Plug-In Cable and Plug ✓ - Charge Management System												
OPTION 1	Y		Y	Y	Y	Y	X	X, Y	X	X	X	X
Y - Charging Cabinets Y - Charge Management System X - Pantograph dispensers X - Pantograph DC Outlet Box X - Pantograph RFID X - Pantograph WiFi X - Remote Plug-In Dispenser Unit X - Plug-In Cable and Plug												

LEGEND:

F=Furnish, I=Install, T=Test, A=Acceptance, C=Commission, W=Warranty, NFI=New Flyer Ind.

NOTES:

1. Installation and permitting under both the Base Bid and Option 1, is the sole responsibility of the Contractor.
2. For OFCI (Owner Furnished, Contractor Installed) charging equipment, the Contractor shall observe and witness the testing, acceptance, and commissioning of said equipment and ensure it is fully operational as per Contract documents.

- b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
- 7. Bid Item 7: Building 03 – Bus Service & Wash Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 03 Bus Service & Wash Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, security and communications, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
- 8. Bid Item 8: Building 3A – Pedestrian Bridge
 - a. This Bid Item includes all work and costs necessary for the design and the construction of Building 3A Pedestrian Bridge including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage, drainage systems, and security and communications.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
- 9. Bid Item 9: Building 04 – FPL Vault Facility & Duct Bank
 - a. This Bid Item includes all work and costs necessary for the construction of Building 04 FPL Vault Facility & Duct Bank including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, utilities including duct bank, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
- 10. Bid Item 10: Building 4A – Security Gate Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 4A Security Gate Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

11. Bid Item 11: Building 05 – Bus Security Gate & Vault Pull Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 05 Bus Security Gate & Vault Pull Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
12. Bid Item 12: Building 06 – Gate Arm Maintenance Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 06 Gate Arm Maintenance Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
13. Bid Item 13: Off-Site Improvements (SW 127th Ave., Biscayne Dr, SW 129th Court)
 - a. This Bid Item includes all work and costs associated with roadway improvements including but not limited to roadway widening, drainage improvements, utilities, and landscaping along SW 129th Court which is adjacent to the site; roadway improvements including but not limited to driveway connections, utilities, drainage improvements, and landscaping along Biscayne Drive and roadway improvements including but not limited to driveway connections, drainage improvements, utilities, roadway lighting, and landscaping along SW 127th Avenue. All proposed and reconstructed sidewalks are included with Bid this Item.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
14. Bid Item 14: Option 1 – BEB Charging Equipment
 - a. This Bid Item includes furnishing, testing, approving, commissioning, and warranty for all BEB charging equipment excluding the charging cabinets and charge management system.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

15. Bid Item 15: Option 2 – On-Site Tree Removal and Tree Relocation
 - a. This Bid Item includes all work and costs associated with the tree removal within the property limits and tree relocation as per contract documents (Volume III, Book 06 of 16) to Homestead Air Reserve Park located at SW 280th Street and SW 127th Avenue.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

16. Bid Item 16: Option 3 – Install, Test, Approve, Commission Owner-Furnished Switchboards
 - a. The Bid Item includes all work and costs associated with the installation, testing, approval, commissioning, and subsequent removal of two (2) temporary County furnished switchboards to be installed in Building 4.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

17. Bid Item 17: Option 4 – Furnish, Install Temporary Personnel Trailer(s)
 - a. The Bid Item includes all work and costs associated with the furnishing, installation, permitting, connection of utility services (including but not limited to water, sanitary, power, etc.) of two temporary personnel trailers for an occupancy of 100 personnel.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

- L. The work includes the required coordination with Miami-Dade County, the Homestead Air Force Reserve Base (HARB), local/surrounding businesses and construction work performed by other contractors in the vicinity of the construction work for this Contract. The work includes the preparation and securing all required approvals/permits, including but not limited to the Maintenance of Traffic (MOT) Plan(s). The MOT plan shall include provisions for safe pedestrian and bicycle traffic and flow, as well as, vehicular traffic and detours. Contractor shall be responsible for the MOT plan and must present it to the corresponding agencies for approval. All pedestrian traffic/flow must comply with the Americans with Disabilities Act (ADA). No work shall encroach into the adjacent private properties unless specific approval is obtained by the contractor from the property owner or appropriate authority having jurisdiction.

- M. For a detailed description of the scope of services, refer to the Contract Documents. The Construction documents comprising the Contract Documents are complementary and indicate the construction and completion of the Work. Anything mentioned in the Contract Specifications and not shown on the Contract Drawings or shown on the

Contract Drawings and not mentioned in the Contract Specifications, shall be of like effect as if shown or mentioned in both.

- N. As required by traffic control permits or agencies/County requirements, work may require to be done at odd or night hours. Such costs shall be considered as incidental to the construction and no extra compensation will be allowed.
- O. Work Restrictions shall be as noted herein:
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
 - 2. Contractor to submit requested on-site work hours for both during work week and weekends. Owner will review and advise available hours. Hours may be adjusted in review with the owner for conditions arising from owner or contractor needs.
 - 3. Coordinate with Owner all operations that may result in high levels of noise and vibration, odors, or other disruption to surrounding residence and businesses. Restrictions may apply. Contractor must comply with County Ordinance regarding noise.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

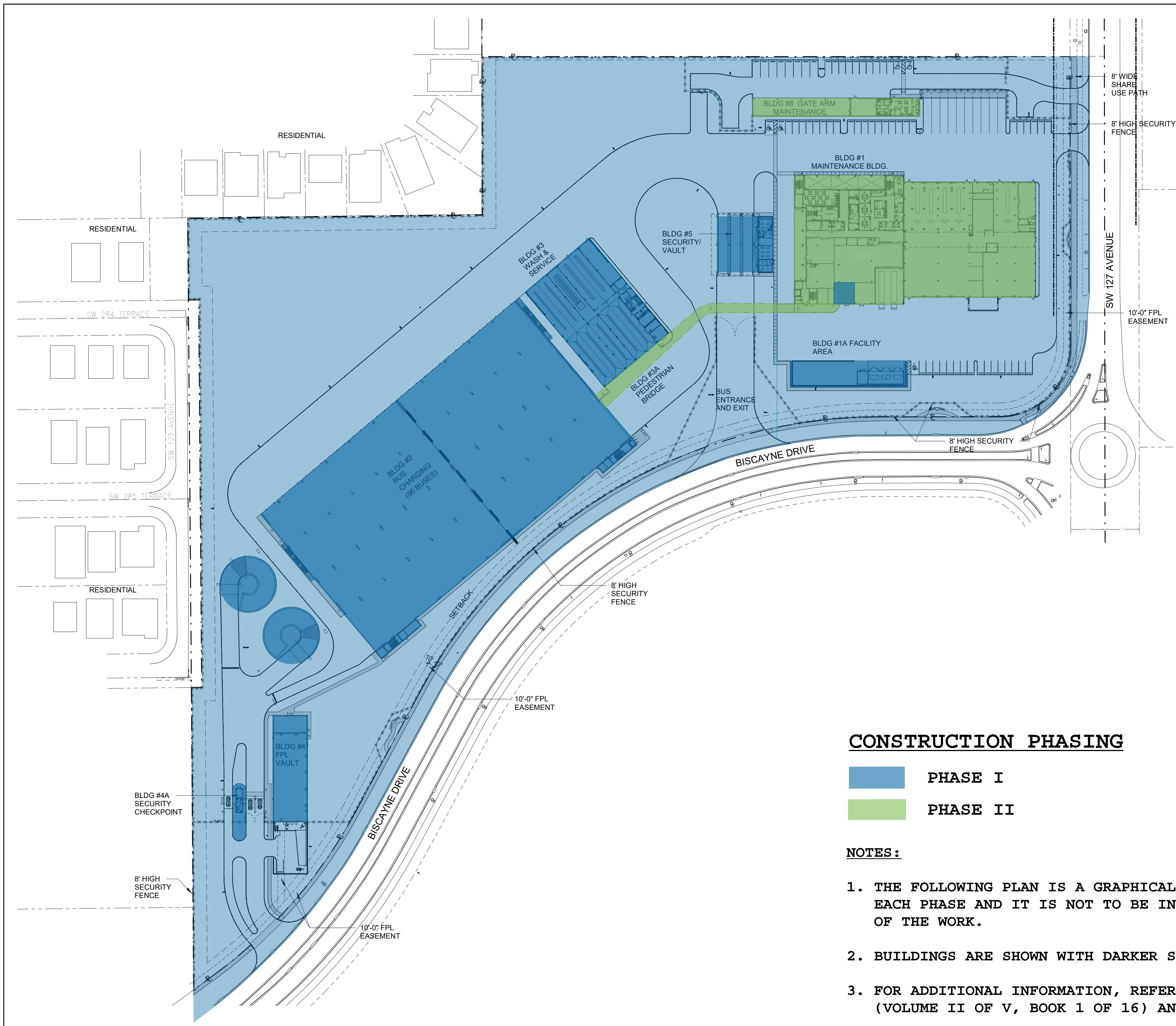
PART 4 - MEASUREMENT AND PAYMENT

NOT USED

END OF SECTION 01 11 00



CONSTRUCTION PHASING



CONSTRUCTION PHASING

- PHASE I
- PHASE II

NOTES:

1. THE FOLLOWING PLAN IS A GRAPHICAL REPRESENTATION OF THE SCOPE OF WORK FOR EACH PHASE AND IT IS NOT TO BE INTERPRETED AS COMPREHENSIVE NOR THE ENTIRETY OF THE WORK.
2. BUILDINGS ARE SHOWN WITH DARKER SHADING FOR PRESENTATIVE PURPOSES ONLY.
3. FOR ADDITIONAL INFORMATION, REFER TO SECTION 00 11 00 - SUMMARY OF WORK (VOLUME II OF V, BOOK 1 OF 16) AND TO THE CONTRACT DOCUMENTS.

No.	Date	Description
	08/29/2023	PERMIT PLANS SUBMITTAL

Designed By	D.PZ./B.M.
Drawn By	E.Q./R.V./H.Z.
Checked By	D.PZ./B.M.
Scale	As indicated

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

SOUTH DADE TRANSIT OPERATIONS CENTER		CONTRACT NO. CIP227A-DTPW22-CT	
<p>7650 Corporate Center Dr #300, Miami, FL 33126 Tel. 305.514.3100 Fax. 305.261.5735 https://www.wsp.com</p>		<p>2121 Douglas Road, Miami, FL 33145 Tel. 305.444.4545 Fax. 305.444.4524 https://www.perezperez.com</p>	
APPROVED A. CHAVARRIA DATE 08/29/2023		APPROVED D. PEREZ DATE 08/29/2023	

Seal:
Daniel Perez-Zaragoza Registered Architect
State of Florida Registration No. 0008130

CONSTRUCTION PHASING (FOR REFERENCE ONLY)	
DRAWING NO.	SHEET NO.



ITD EQUIPMENT ROOM ACCEPTANCE FORM

MDC ITD Equipment Room Acceptance Form

Project: _____

Floor #: _____

Location #: _____

Developer Associate Name: _____

Date: _____

ITD Associate Name: _____

Date: _____

Date/Time:
(Notification to MDC) _____

Date/Time:
(MDC Determination to Developer) _____

Date/Time:
(MDC Acceptance to Developer) _____

Item Description	Confirmation		Notes
	Developer (Y/N)	ITD (Y/N)	
Temporary Certificate of Occupancy obtained			
Floor Software installed			
Completed floor, finished walls sanded and painted as per design drawings, secure doors for room ingress and egress.			
Completed lighting/power installed, tested, and in production.			
Completed HVAC- A/C functioning at proper temperature and humidity levels			
Completed installation of physical fire suppression system			
Completed grounding and bond system to building main ground system.			
Completed entrance, vertical, and horizontal pathways			
Completed installation of IT cabinets/ racks and cable trays with properly grounding and bonding to main building ground.			
Completed Low voltage infrastructure (EIA/TIA) 568 standards installed, terminated, and tested			
Completed Low Voltage copper and fiber optic infrastructure (EIA/TIA) 568 standards installed, terminated, and tested.			
Fire stopping in place for vertical and horizontal sleeving as per code and design drawings			

A/C functioning at proper temperature and humidity levels			
Rooms sealed and free of outside debris and dust related to construction			
Power receptacles in racks and on walls operating properly			



ITS RESPONSIBILITY MATRIX

South Miami Dade - Comms Security Responsibility Matrix

Activity Description	WSP - DESIGN COMPLETED	Building Contractor (BC)	Information Technology Dept (ITD)	DTPW Safety & Security (SAS)	DTPW Bus Operations (DPS)	Service Provider (Internet & Cable TV)
Incoming Telecom Service						
Identify telecom service demarc point & procure service			X			
Identify cable TV service demarc point & procure service			X			
Specify incoming service underground conduits between demarc and entrance facility	X		X			
Design incoming service underground conduits between demarc and entrance facility	X		X			
Install incoming service underground conduits between demarc and entrance facility		X				
Install incoming service demarcation requirements (backboard/rack space, power)		X				
Install incoming service cabling						X
Identify incoming service demarcation requirements (backboard/rack space, power)	X		X			X
Specify incoming service demarcation requirements (backboard/rack space, power)	X					
Telecommunications Site Distribution						
Specify underground conduits between entrance facility and telecom rooms	X		X			
Design underground conduits between entrance facility and telecom rooms	X		X			
Install underground conduits between entrance facility and telecom rooms		X				
Underground conduit proving			X			
Install fiber backbone cabling in underground conduits between entrance facility and telecom rooms		X				
Splice, Terminate, Test & Document fiber backbone cabling between entrance facility and telecom rooms			X			
Telecommunication Rooms						
Design rack mounted network equipment, provide space and power requirements to WSP			X			
Specify equipment racks, cable management wireways, copper and fiber patch panels, plywood backboards, cable runway, bonding busbars, rack power	X		X			
Design equipment racks, cable management wireways, copper and fiber patch panels, plywood backboards, cable runway, bonding busbars, rack power	X		X			
Specify room security requirements	X		X	X		
Design room security requirements	X		X			
Specify room fire detection/protection	X		X			
Design room fire detection/protection	X					
Specify room HVAC and power requirements	X		X			
Design room HVAC and power equipment	X					
Install equipment racks, cable management wireways, copper and fiber patch panels, plywood backboards, cable runway, bonding busbars, rack power		X				
Install room security requirements		X				
Install room fire detection/protection		X				
Install room HVAC and power equipment		X				
Install rack mounted network equipment			X			
Telecommunications Horizontal Distribution						
Identify locations of telecom and cable TV outlets and wireless access points throughout EBMF	X		X		X	
Design horizontal distribution to the telecom and cable TV outlets and wireless access points, horizontal cabling	X		X			
Specify cable TV monitors	X				X	
Identify PA speaker zones and speakers	X				X	

South Miami Dade - Comms Security Responsibility Matrix

Activity Description	WSP - DESIGN COMPLETED	Building Contractor (BC)	Information Technology Dept (ITD)	DTPW Safety & Security (SAS)	DTPW Bus Operations (OFS)	Service Provider (Internet & Cable TV)
Design PA system	X					
Install conduit raceways cabling between telecom and cable TV outlets, wireless access points and telecom rooms		X				
Install, terminate, test and document horizontal cabling and outlets		X				
Install wireless access points and connect to existing telecom outlets			X			
Install cable TV monitors		X				
Install workstation equipment (desktop PCs, telephone, monitors, copiers) and connect to existing telecom outlets. Connect wall mounted monitors to CATV or data outlets.			X			
Install PA system speakers, cabling, amplifiers		X				
Install interface of PA system with VOIP telephone system, testing and demonstration. ITD to witness testing and verify operation		X	X			
Access Control System						
Specify access control system equipment and cabling	X			X		
Identify access controlled portals throughout the BMF	X			X	X	
Identify access control system alarm routing	X			X		
Identify access control system interface with LAN	X		X	X		
Identify location(s) of access control system workstations	X			X	X	
Identify interface of toc access control system with existing agency access control system	X			X		
Design access control system, details, one line diagram, schedule	X					
Install, program, test, document and demonstrate access control system		X	X	X		
Install interface of Access Control System with LAN		X		X		
CCTV System						
Specify CCTV system equipment and cabling	X		X	X	X	
Identify locations and coverages of CCTV cameras	X			X	X	
Identify CCTV system alarm routing	X		X	X		
Identify CCTV system interface with LAN	X		X	X		
Identify location(s) of CCTV system workstation and display monitors	X		X	X		
Identify interface of the TOC CCTV system with existing agency or County CCTV system	X		X	X		
Identify location(s) of CCTV system workstation and display monitors	X			X	X	
Design CCTV system, mounting details, one line diagram, camera schedule	X					
Install, program, test, document and demonstrate CCTV system		X		X		
Installation of Federation License/Federation Role (Genetec Enterprise VMS)		X				
Install interface of CCTV System with LAN		X	X	X		
Radio						
Backup Transportation Center Design	X				X	
Specify radio system equipment	X		X			
Procure radio system equipment		X				
Install, BTC radio equipment		X				
Program radio system equipment			X			
Test, document and demonstrate BTC equipment			X		X	

01 11 00 - Summary of Work_R1 (Track Changes)

01 11 00 – SUMMARY OF WORK

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work to be performed under this Contract shall be as shown on the Contract Drawings, as specified in the Specification with special provisions and in accordance with the Contract documents and the following requirements. This section includes general requirements applicable to the Contract. This section, alone, does not represent the complete work.
- B. The Work, in general, consists of the construction of the South Dade Transit Operations Center facilities and related infrastructure including roadway improvements along Biscayne Drive, SW 127th Avenue, and along SW 129th Court as described in the Bid Items listed within this specification and the Contract documents. The work includes but is not limited to, furnishing all supervision, labor, materials, equipment, tools, services, and incidentals necessary for the construction of the South Dade Transit Operations Center and associated roadway improvements.
- C. Envision Certification: This project is pursuing an Envision Certification, version 3, with an achievement level of at least Silver or better, pathway A (Design + Post-Construction), which is administered by the Institute for Sustainable Infrastructure (ISI). Refer to the specification Division 1, Section 01 81 13 “Sustainable Project Requirements” and the Sustainability Management Plan, refer to Volume IV “Supporting Documentation: of the Contract Documents. The Contractor is responsible for the implementation and compliance of the Sustainability Management Plan as provided and described in the Contract documents and shall provide the necessary documentation for the preparation of the required post-construction package for submittal to the Institute for Sustainable Infrastructure (ISI). The Contractor shall validate, confirm and communicate to Owner within 30-days of NTP, the commitments made to achieve at least Envision v3 Silver or better prior to the submittal of the documentation. There are several sustainability strategies that are embedded within the contract documents that support the Envision Framework. The Envision requirements focus on quality assurance, developing an Envision Action Plan, and periodic reporting. Contractor shall comply with the Envision contract requirements below:
1. Submit a certified letter indicating intent to comply
 2. Submit an Envision Action Plan
 3. Schedule an Envision Pre-Construction Coordination Meeting

SPECIFICATIONS

4. Retain an accredited Envision Coordinator with ENV SP (Sustainable Professional) credentials
 5. Provide supporting documentation for pending Envision credits
 6. Submit quarterly Envision Progress Reports
 7. Submit a final certified letter indicating compliance
- D. All utility coordination work for the project, including, but not limited to, the following:
1. MD-WASD for the installation of water and sewer service at the facility and its surroundings. Comply with the requirements of the MD-WASD and DTPW agreement ID# 32051, refer to Volume V “Permits and Agreements” of the Contract Documents. Contractor to schedule preconstruction meeting with WASD. It is the contractor’s responsibility to perform all work to be done under WASD supervision and pay for such work, inclusive of all fees.
 2. AT&T for the installation of all infrastructures from the point of connection to the point designated in the Contract Documents. Contractor is responsible for payment of all fees and costs associated with this work.
 3. FPL for the installation of all power service equipment and infrastructure and bringing power from FPL point of connection. Contractor to coordinate with FPL accordingly for the completion of the work. Contractor shall comply with FPL specifications and requirements for the FPL vault and duct bank included as part construction documents, refer to Volume V “Permits and Agreements” of the Contract Documents. The Contractor performing the construction of the FPL vault and FPL duct bank (whether prime or sub) shall be an FPL “Approved Contractor”.
- E. Specialty Engineer: The scope of work includes designing, furnishing and/or installing the following pre-engineered systems/components:
1. Architectural:
 - a. Pedestrian bridge.
 - b. Pedestrian bridge cladding/louwer.
 - c. Exterior metal studs at exterior metal ceiling and infill areas between pre-cast and structure
 - d. Canopy structures/polycarbonate cladding at parking garage and golf cart parking.
 - e. Catwalk.
 2. Structural:

- a. Building 1:
 - 1) Steel frame connections.
 - 2) Railing connections to steel frame.
- b. Building 1A:
 - 1) Louver Enclosure frame system.
- c. Building 2:
 - 1) Precast façade panels.
 - 2) Prestressed soffit beams.
 - 3) Prestressed joist.
 - 4) Precast columns.
 - 5) Canopies Connections.
 - 6) Louver Enclosure frame system.
 - 7) 3" RGS Conduit supports between electrical room and equipment enclosure.
- d. Building 3:
 - 1) Precast Façade panels (by manufacturer, depending on the schedule)
 - 2) Pre-engineered bridge spans
 - 3) Gantry crane rails
- e. Building 3A (Pedestrian Bridge):
 - 1) Steel truss superstructure connections
 - 2) Exterior metal panels including the connections to steel truss superstructure.
- f. Building 4:
 - 1) Precast façade panels.
- g. Building 5:

- 1) Precast façade panels.
- h. Building 6:
 - 1) Roof open Joists.
 - 2) Precast façade panels.
3. Equipment:
 - a. Paint booth exhaust stack fastening/tie-down calculations.
4. Mechanical/Plumbing:
 - a. Required for all equipment, piping, and ductwork or supports mounted exposes doors. Items that don't have a NOA, particularly custom-designed or alternate items, will need to be signed and sealed by Contractor's delegated specialty engineer:
 - 1) Exhaust fans and ductwork on the roof.
 - 2) Air-cooled chillers.
 - 3) Generator and fuel tank.
 - 4) Chilled water underground piping.
 - 5) Underground water and oil separators – concrete deadman anchor calculations and design to compensate for tank buoyancy.
5. Power:
 - a. Power system studies which include coordination, short circuit, load flow, arc flash, and cable ampacity studies.
- F. Final design of the power distribution grounding system.
- G. Contractor to coordinate with manufacturer's specialty engineer for the installation, testing and commissioning of the charging equipment.
- H. Coordination for Off-duty Law enforcement Officer for Traffic Control plan, as required.
- I. The South Dade Transit Operations Center Project will be performed at the following location:
 1. Northwest quadrant of Biscayne Drive and SW 127th Avenue, Homestead, Florida

J. The Project shall be constructed and turned over to the County in two phases, Phase I and Phase II, with the objective of the County being able to occupy and/or use buildings 2, 3, 4, 4A, and 5 at the completion of Phase I upon receipt of a Temporary Certificate of Occupancy (TCO). Contractor shall schedule and sequence the scope of work accordingly to meet the requirements below. For a graphical representation, refer to the Construction Phasing drawing provided at the end of this specification.

1. Scope of Work

a. Phase I includes:

- 1) Site work includes but not limited to tree removal & relocation (if Option is exercised), removal of existing utilities, installation and connection of all underground utilities (including electrical, fire protection, water, etc.), all duct banks (including electrical, communications, etc.), storm and sanitary sewers, drainage, earthwork (including cut & fill, embankment, etc.) perimeter fencing & gates, rigid asphalt pavement, signage, pavement markings, site lighting, traffic pre-emption signal, sidewalks, and driveways connecting to Biscayne Drive.
- 2) Building 1 Main Electrical Room and associated infrastructure required to supply power (including electrical systems, duct banks, etc.) to all buildings to be completed under Phase I.
- 3) Building 1A installation, testing, commissioning of generator and associated infrastructure to operate said generator.
- 4) Building 2 – Parking Garage, associated ramps, inclusive of systems and associated infrastructure including ITS room(s) and duct bank(s).
- 5) Building 3 – Service & Wash Facility including ITS room(s) and duct bank(s).
- 6) Building 4 – FPL Vaults and FPL duct bank including duct banks providing power to charging equipment located in Building 2.
- 7) Building 4A – Security Gate Facility including ITS room(s) and duct bank(s).
- 8) Building 5 – Bus Security Gate & Vault Pull Facility including Main ITS room and duct bank(s).
- 9) Execution of Option 1, if exercised by the County.
- 10) Execution of Option 2, if exercised by the County.
- 11) Execution of Option 3, if exercised by the County.

12) Execution of Option 4, if exercised by the County.

b. Phase II includes:

- 1) Site work including but not limited to landscaping, driveways connecting to SW 127th Avenue, roadway improvements along SW 127th including roadway lighting, shared used path (SUP), sidewalks, drainage, signage, pavement markings, flexible pavement, roadway landscaping, roadway improvements along SW 129th Court including drainage, roadway widening, signage, pavement markings and roadway landscaping.
- 2) Building 1 – Bus Maintenance & Operations Facility including ITS room(s) and duct bank(s).
- 3) Building 1A – Support Area Facilities (Chiller, Garbage & Generator)
- 4) Building 3A – Pedestrian Bridge
- 5) Building 6 – Gate Arm Maintenance Facility including ITS room(s) and duct bank(s).

2. Construction milestones for the described phases are as follows:

a. Phase I – NTP + 300 days including the following intermediate milestones:

- 1) NTP + 90 days – FPL Vault & FPL duct bank must be inspected, approved, and accepted by FPL and turned over to FPL to commence installation of FPL equipment within FPL Vault and FPL duct bank. Contractor shall obtain TCO from Building Department if required prior to hand over of FPL Vault & duct bank for installation of FPL equipment.
- 2) NTP + 180 days – ITS rooms and communications duct banks located within buildings 2, 3, 4A and 5 (Main ITS room). Contractor shall submit and comply with the MDC ITD Equipment Room Acceptance Form, provided at the end of this specification, to obtain acceptance from MDC ITD before hand over to start of their scope of work (refer to Responsibility Matrix provided at the end of this specification). Additionally, Contractor shall coordinate all construction activities related to the ITD room and communication duct banks. Furthermore, Contractor shall notify MDC ITD prior to construction activities take place and grant access during such activities for MDC ITD to inspect and/or witness the execution of the work associated with ITD equipment and communications duct bank.

b. Phase II – NTP + 700 days including the following intermediate milestones:

1) NTP + 580 days – ITS rooms and communications duct banks located within buildings 1 and 6. Contractor shall submit and comply with the MDC ITD Equipment Room Acceptance Form, provided at the end of this specification, to obtain acceptance from MDC ITD before hand over to start of their scope of work (refer to Responsibility Matrix provided at the end of this specification). Additionally, Contractor shall coordinate all construction activities related to the ITD room and communication duct banks. Furthermore, Contractor shall notify MDC ITD prior to construction activities take place and grant access during such activities for MDC ITD to inspect and/or witness the execution of the work associated with ITD equipment and communications duct bank.

c. As stipulated under Sub-Article 8.F, Liquidated Damages and Liquidated Indirect Costs, in Volume I of V of the Standard Construction General Conditions, full liquidated damages shall apply to each milestone.

3. Temporary Certificate of Occupancy (TCO) requirements

a. Contractor shall schedule and meet with Building Department regarding the TCO requirements for each building and construction phase prior to development of the Construction schedule to understand the TCO requirements to deliver Phase I and Phase within the construction duration.

b. Temporary Certificate of Occupancy is dependent on compliance of all Life Safety Systems for a particular building including but not limited to:

1) Water Extension (connection)

2) Fire Pump

3) Fire Suppression System

4) Fire Hydrants

5) Fire Extinguisher

6) Common Path

7) Power supply

8) E-Stops

9) Emergency lighting

10) Emergency signage

11) All related Life Safety related Items

- c. Distributed Antenna System (DAS) is not a TCO requirement.
- d. All Life Safety systems shall be inspected, tested, approved, and fully commissioned by AHJ to receive a Temporary Certificate of Occupancy (TCO).

J-K. The Project for Bidding will be divided into the following Bid Items as presented in the Bid Form.

1. Bid item 1: Mobilization (For entire project)
 - a. This Bid Item includes all items relevant to the Mobilization for the entire Project.
 - b. This Bid Item shall be Lump Sum in accordance with Specification Section 01 71 13 – Mobilization, Article 9, Progress Payment, Bid Form as contained in the General Conditions.
2. Bid Item 2: General Requirements (For entire project)
 - a. This Bid Item includes all items relevant to the General Requirements and Conditions of the Contract and all Division 01 items.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
3. Bid Item 3: On-Site Improvements
 - a. This Bid Item includes all work and costs related to the on-site work within the property limits including but not limited to clearing and grubbing, earthwork, drainage, dewatering, fencing, landscaping, irrigation, pavement, signing and pavement markings, utilities, and site lighting (for more information, please refer to Division 31 and 32).
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
4. Bid Item 4: Building 01 – Bus Maintenance and Operations Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 01 Bus Maintenance and Operations Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, security and communications, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

5. Bid Item 5: Building 1A – Support Area Facilities (Chiller, Garbage & Generator)
 - a. This Bid Item includes all work and costs necessary for the construction of Building 1A Support Area Facilities (Chiller, Garbage & Generator Facility) including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and security and communications.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

6. Bid Item 6: Building 02 – Parking Garage & Access Ramps
 - a. This Bid Item includes all work and costs necessary for the construction of Building 02 Parking Garage & Access Ramps including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, security and communications, and landscaping.

The table below defines the equipment and responsibilities of the Owner and Contractor under the Base bid and Option 1 (for more information, refer to Sections 11 11 36.14 & 11 11 36.20).

TABLE 1 – BEB CHARGING EQUIPMENT RESPONSIBILITY												
	OWNER (NFI)						CONTRACTOR					
	F	I	T	A	C	W	F	I	T	A	C	W
BASE BID ✓ - Charging Cabinets ✓ - Pantograph Dispensers ✓ - Pantograph DC Outlet Boxes ✓ - Pantograph RFID ✓ - Pantograph WiFi ✓ - Remote Plug-Ins Dispenser Unit ✓ - Plug-In Cable and Plug ✓ - Charge Management System	✓		✓	✓	✓	✓		✓				
OPTION 1 Y - Charging Cabinets Y - Charge Management System X - Pantograph dispensers X - Pantograph DC Outlet Box X - Pantograph RFID X - Pantograph WiFi X - Remote Plug-In Dispenser Unit X - Plug-In Cable and Plug	Y		Y	Y	Y	Y	X	X, Y	X	X	X	X

LEGEND:

F=Furnish, I=Install, T=Test, A=Acceptance, C=Commission, W=Warranty, NFI=New Flyer Ind.

NOTES:

1. Installation and permitting under both the Base Bid and Option 1, is the sole responsibility of the Contractor.
2. For OFCI (Owner Furnished, Contractor Installed) charging equipment, the Contractor shall observe and witness the testing, acceptance, and commissioning of said equipment and ensure it is fully operational as per Contract documents.

- b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
7. Bid Item 7: Building 03 – Bus Service & Wash Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 03 Bus Service & Wash Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, security and communications, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
8. Bid Item 8: Building 3A – Pedestrian Bridge
 - a. This Bid Item includes all work and costs necessary for the design and the construction of Building 3A Pedestrian Bridge including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage, drainage systems, and security and communications.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
9. Bid Item 9: Building 04 – FPL Vault Facility & Duct Bank
 - a. This Bid Item includes all work and costs necessary for the construction of Building 04 FPL Vault Facility & Duct Bank including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, utilities including duct bank, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
10. Bid Item 10: Building 4A – Security Gate Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 4A Security Gate Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

11. Bid Item 11: Building 05 – Bus Security Gate & Vault Pull Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 05 Bus Security Gate & Vault Pull Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
12. Bid Item 12: Building 06 – Gate Arm Maintenance Facility
 - a. This Bid Item includes all work and costs necessary for the construction of Building 06 Gate Arm Maintenance Facility including but not limited to, structural (foundations, substructure, superstructure), architectural, mechanical, electrical, plumbing, fire alarm and suppression, utilities, civil, signage and pavement markings, grading, drainage systems, and landscaping.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
13. Bid Item 13: Off-Site Improvements (SW 127th Ave., Biscayne Dr, SW 129th Court)
 - a. This Bid Item includes all work and costs associated with roadway improvements including but not limited to roadway widening, drainage improvements, utilities, and landscaping along SW 129th Court which is adjacent to the site; roadway improvements including but not limited to driveway connections, utilities, drainage improvements, and landscaping along Biscayne Drive and roadway improvements including but not limited to driveway connections, drainage improvements, utilities, roadway lighting, and landscaping along SW 127th Avenue. All proposed and reconstructed sidewalks are included with Bid this Item.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.
14. Bid Item 14: Option 1 – BEB Charging Equipment
 - a. This Bid Item includes furnishing, testing, approving, commissioning, and warranty for all BEB charging equipment excluding the charging cabinets and charge management system.
 - b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

15. Bid Item 15: Option 2 – On-Site Tree Removal and Tree Relocation

- a. This Bid Item includes all work and costs associated with the tree removal within the property limits and tree relocation as per contract documents (Volume III, Book 06 of 16) to Homestead Air Reserve Park located at SW 280th Street and SW 127th Avenue.
- b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

16. Bid Item 16: Option 3 – Install, Test, Approve, Commission Owner-Furnished Switchboards

- a. The Bid Item includes all work and costs associated with the installation, testing, approval, commissioning, and subsequent removal of two (2) temporary County furnished switchboards to be installed in Building 4.
- b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

17. Bid Item 17: Option 4 – Furnish, Install Temporary Personnel Trailer(s)

- a. The Bid Item includes all work and costs associated with the furnishing, installation, permitting, connection of utility services (including but not limited to water, sanitary, power, etc.) of two temporary personnel trailers for an occupancy of 100 personnel.
- b. This Bid Item shall be Lump Sum in accordance with Article 9, Progress Payment, Bid Form as contained in the General Conditions.

K.L. The work includes the required coordination with Miami-Dade County, the Homestead Air Force Reserve Base (HARB), local/surrounding businesses and construction work performed by other contractors in the vicinity of the construction work for this Contract. The work includes the preparation and securing all required approvals/permits, including but not limited to the Maintenance of Traffic (MOT) Plan(s). The MOT plan shall include provisions for safe pedestrian and bicycle traffic and flow, as well as, vehicular traffic and detours. Contractor shall be responsible for the MOT plan and must present it to the corresponding agencies for approval. All pedestrian traffic/flow must comply with the Americans with Disabilities Act (ADA). No work shall encroach into the adjacent private properties unless specific approval is obtained by the contractor from the property owner or appropriate authority having jurisdiction.

L.M. For a detailed description of the scope of services, refer to the Contract Documents. The Construction documents comprising the Contract Documents are complementary and indicate the construction and completion of the Work. Anything mentioned in the Contract Specifications and not shown on the Contract Drawings or shown on the

Contract Drawings and not mentioned in the Contract Specifications, shall be of like effect as if shown or mentioned in both.

M.N. As required by traffic control permits or agencies/County requirements, work may require to be done at odd or night hours. Such costs shall be considered as incidental to the construction and no extra compensation will be allowed.

N.O. Work Restrictions shall be as noted herein:

1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
2. Contractor to submit requested on-site work hours for both during work week and weekends. Owner will review and advise available hours. Hours may be adjusted in review with the owner for conditions arising from owner or contractor needs.
3. Coordinate with Owner all operations that may result in high levels of noise and vibration, odors, or other disruption to surrounding residence and businesses. Restrictions may apply. Contractor must comply with County Ordinance regarding noise.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

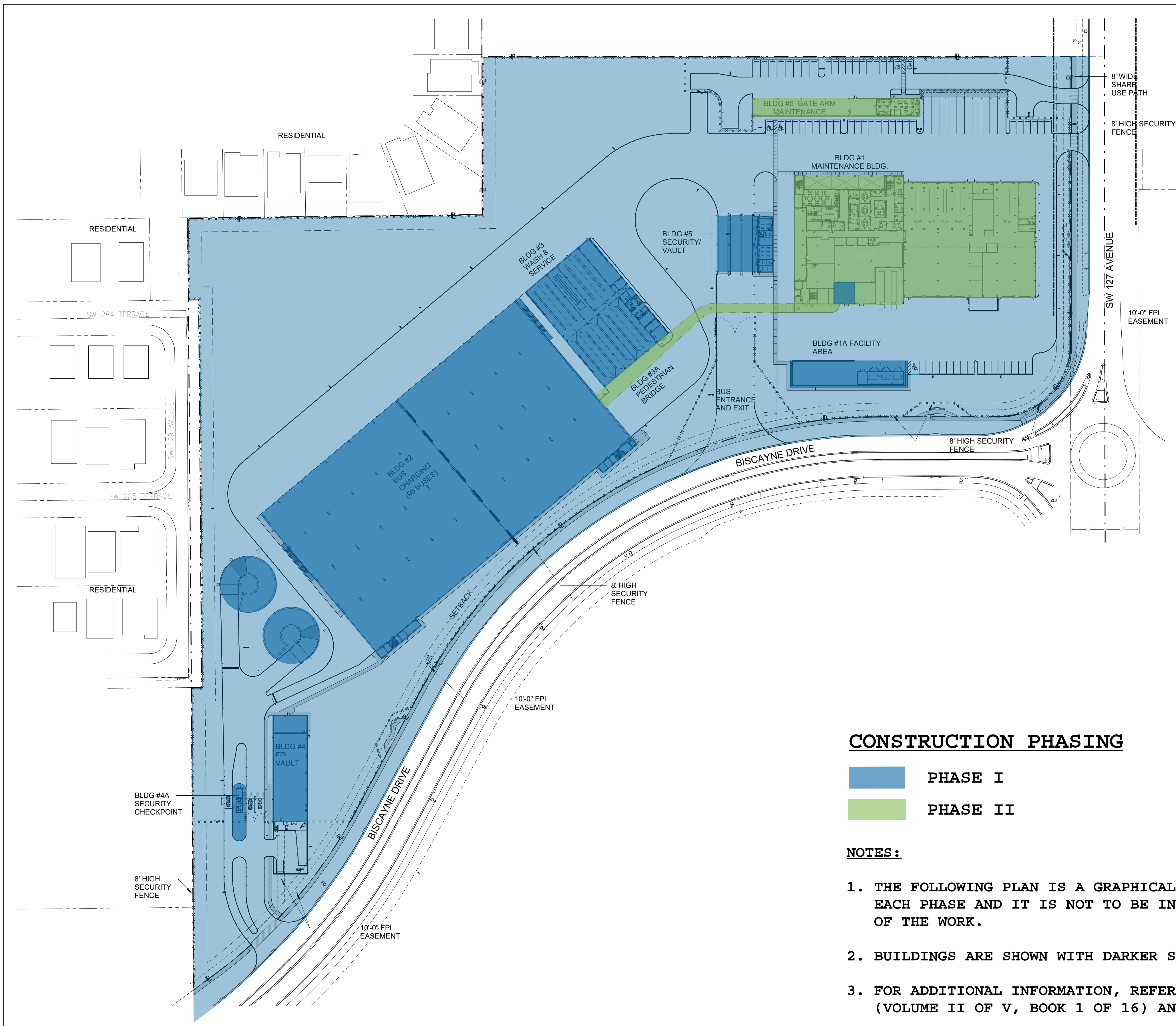
PART 4 - MEASUREMENT AND PAYMENT

NOT USED

END OF SECTION 01 11 00



CONSTRUCTION PHASING



CONSTRUCTION PHASING

- PHASE I
- PHASE II

NOTES:

1. THE FOLLOWING PLAN IS A GRAPHICAL REPRESENTATION OF THE SCOPE OF WORK FOR EACH PHASE AND IT IS NOT TO BE INTERPRETED AS COMPREHENSIVE NOR THE ENTIRETY OF THE WORK.
2. BUILDINGS ARE SHOWN WITH DARKER SHADING FOR PRESENTATIVE PURPOSES ONLY.
3. FOR ADDITIONAL INFORMATION, REFER TO SECTION 00 11 00 - SUMMARY OF WORK (VOLUME II OF V, BOOK 1 OF 16) AND TO THE CONTRACT DOCUMENTS.

No.	Date	Description
	08/29/2023	PERMIT PLANS SUBMITTAL

Designed By	D.PZ./B.M.
Drawn By	E.Q./R.V./H.Z.
Checked By	D.PZ./B.M.
Scale	As indicated

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

SOUTH DADE TRANSIT OPERATIONS CENTER		CONTRACT NO. CIP227A-DTPW22-CT	
<p>7650 Corporate Center Dr #300, Miami, FL 33126 Tel. 305.514.3100 Fax. 305.261.5735 https://www.wsp.com</p>		<p>2121 Douglas Road, Miami, FL 33145 Tel. 305.444.4545 Fax. 305.444.4524 https://www.perezperez.com</p>	
APPROVED A. CHAVARRIA DATE 08/29/2023		APPROVED D. PEREZ DATE 08/29/2023	

Seal:
Daniel Perez-Zaragoza Registered Architect
State of Florida Registration No. 0008130

**CONSTRUCTION PHASING
(FOR REFERENCE ONLY)**

DRAWING NO. SHEET NO.



ITD EQUIPMENT ROOM ACCEPTANCE FORM

MDC ITD Equipment Room Acceptance Form

Project: _____

Floor #: _____

Location #: _____

Developer Associate Name: _____

Date: _____

ITD Associate Name: _____

Date: _____

Date/Time: _____
(Notification to MDC)

Date/Time: _____
(MDC Determination to Developer)

Date/Time: _____
(MDC Acceptance to Developer)

Item Description	Confirmation		Notes
	Developer (Y/N)	ITD (Y/N)	
Temporary Certificate of Occupancy obtained			
Floor Software installed			
Completed floor, finished walls sanded and painted as per design drawings, secure doors for room ingress and egress.			
Completed lighting/power installed, tested, and in production.			
Completed HVAC- A/C functioning at proper temperature and humidity levels			
Completed installation of physical fire suppression system			
Completed grounding and bond system to building main ground system.			
Completed entrance, vertical, and horizontal pathways			
Completed installation of IT cabinets/ racks and cable trays with properly grounding and bonding to main building ground.			
Completed Low voltage infrastructure (EIA/TIA) 568 standards installed, terminated, and tested			
Completed Low Voltage copper and fiber optic infrastructure (EIA/TIA) 568 standards installed, terminated, and tested.			
Fire stopping in place for vertical and horizontal sleeving as per code and design drawings			

A/C functioning at proper temperature and humidity levels			
Rooms sealed and free of outside debris and dust related to construction			
Power receptacles in racks and on walls operating properly			



ITS RESPONSIBILITY MATRIX

South Miami Dade - Comms Security Responsibility Matrix

Activity Description	WSP - DESIGN COMPLETED	Building Contractor (BC)	Information Technology Dept (ITD)	DTPW Safety & Security (SAS)	DTPW Bus Operations (DPS)	Service Provider (Internet & Cable TV)
Incoming Telecom Service						
Identify telecom service demarc point & procure service			X			
Identify cable TV service demarc point & procure service			X			
Specify incoming service underground conduits between demarc and entrance facility	X		X			
Design incoming service underground conduits between demarc and entrance facility	X		X			
Install incoming service underground conduits between demarc and entrance facility		X				
Install incoming service demarcation requirements (backboard/rack space, power)		X				
Install incoming service cabling						X
Identify incoming service demarcation requirements (backboard/rack space, power)	X		X			X
Specify incoming service demarcation requirements (backboard/rack space, power)	X					
Telecommunications Site Distribution						
Specify underground conduits between entrance facility and telecom rooms	X		X			
Design underground conduits between entrance facility and telecom rooms	X		X			
Install underground conduits between entrance facility and telecom rooms		X				
Underground conduit proving			X			
Install fiber backbone cabling in underground conduits between entrance facility and telecom rooms		X				
Splice, Terminate, Test & Document fiber backbone cabling between entrance facility and telecom rooms			X			
Telecommunication Rooms						
Design rack mounted network equipment, provide space and power requirements to WSP			X			
Specify equipment racks, cable management wireways, copper and fiber patch panels, plywood backboards, cable runway, bonding busbars, rack power	X		X			
Design equipment racks, cable management wireways, copper and fiber patch panels, plywood backboards, cable runway, bonding busbars, rack power	X		X			
Specify room security requirements	X		X	X		
Design room security requirements	X		X			
Specify room fire detection/protection	X		X			
Design room fire detection/protection	X					
Specify room HVAC and power requirements	X		X			
Design room HVAC and power equipment	X					
Install equipment racks, cable management wireways, copper and fiber patch panels, plywood backboards, cable runway, bonding busbars, rack power		X				
Install room security requirements		X				
Install room fire detection/protection		X				
Install room HVAC and power equipment		X				
Install rack mounted network equipment			X			
Telecommunications Horizontal Distribution						
Identify locations of telecom and cable TV outlets and wireless access points throughout EBMF	X		X		X	
Design horizontal distribution to the telecom and cable TV outlets and wireless access points, horizontal cabling	X		X			
Specify cable TV monitors	X				X	
Identify PA speaker zones and speakers	X				X	

South Miami Dade - Comms Security Responsibility Matrix

Activity Description	WSP - DESIGN COMPLETED	Building Contractor (BC)	Information Technology Dept (ITD)	DTPW Safety & Security (SAS)	DTPW Bus Operations (OFS)	Service Provider (Internet & Cable TV)
Design PA system	X					
Install conduit raceways cabling between telecom and cable TV outlets, wireless access points and telecom rooms		X				
Install, terminate, test and document horizontal cabling and outlets		X				
Install wireless access points and connect to existing telecom outlets			X			
Install cable TV monitors		X				
Install workstation equipment (desktop PCs, telephone, monitors, copiers) and connect to existing telecom outlets. Connect wall mounted monitors to CATV or data outlets.			X			
Install PA system speakers, cabling, amplifiers		X				
Install interface of PA system with VOIP telephone system, testing and demonstration. ITD to witness testing and verify operation		X	X			
Access Control System						
Specify access control system equipment and cabling	X			X		
Identify access controlled portals throughout the BMF	X			X	X	
Identify access control system alarm routing	X			X		
Identify access control system interface with LAN	X		X	X		
Identify location(s) of access control system workstations	X			X	X	
Identify interface of toc access control system with existing agency access control system	X			X		
Design access control system, details, one line diagram, schedule	X					
Install, program, test, document and demonstrate access control system		X	X	X		
Install interface of Access Control System with LAN		X		X		
CCTV System						
Specify CCTV system equipment and cabling	X		X	X	X	
Identify locations and coverages of CCTV cameras	X			X	X	
Identify CCTV system alarm routing	X		X	X		
Identify CCTV system interface with LAN	X		X	X		
Identify location(s) of CCTV system workstation and display monitors	X		X	X		
Identify interface of the TOC CCTV system with existing agency or County CCTV system	X		X	X		
Identify location(s) of CCTV system workstation and display monitors	X			X	X	
Design CCTV system, mounting details, one line diagram, camera schedule	X					
Install, program, test, document and demonstrate CCTV system		X		X		
Installation of Federation License/Federation Role (Genetec Enterprise VMS)		X				
Install interface of CCTV System with LAN		X	X	X		
Radio						
Backup Transportation Center Design	X				X	
Specify radio system equipment	X		X			
Procure radio system equipment		X				
Install, BTC radio equipment		X				
Program radio system equipment			X			
Test, document and demonstrate BTC equipment			X		X	