



THE CITY OF KEY WEST

1300 White Street
Key West, FL 33040

**ADDENDUM NO. 2 – DESIGN-BUILD KEY WEST TRANSIT
FUEL ISLAND CANOPY
ITB 18-013**

This addendum is issued as supplemental information to the bid package for clarification of certain matters of both a general and a technical nature. The referenced bid package is hereby addended in accordance with the following items:

ITB Questions Submitted

1. Is there an Engineer's Estimate for this project?

As this is a design-build project, there is no Engineer's Estimate for this project. FDOT grant funds are available to fully fund this project.

2. Are there any plans available for this project?

Applicable plans from the construction of the actual Transit Facility are provided below as Attachment 1.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 2 by submitting the addendum with their proposal. This Addendum does not alter the bid-opening date of February 14th, 2018 at 3:30pm. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

Name of Business



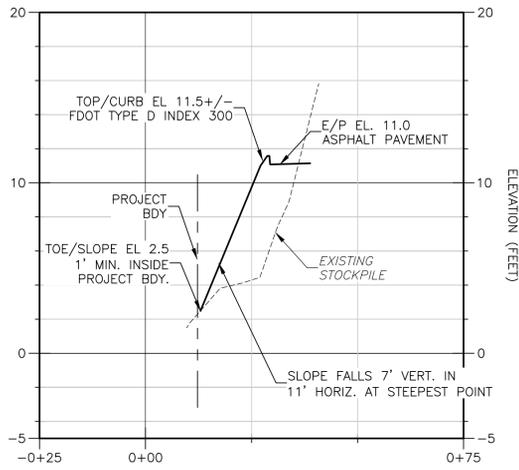
**ADDENDUM NO. 2 – DESIGN-BUILD KEY WEST TRANSIT
FUEL ISLAND CANOPY
ITB 18-013**

Attachment 1

1. Site Plan (Sheet C-2)
2. Grading and Drainage Plan 1 (Sheet C-4)
3. Fuel Tank, Generator & Fire Pump Slab Plans and Sections (Sheet S-2)
4. Electrical Site Plan and Notes (Sheet E-4)
5. Geotech Exploration
6. Geotech Boring Number B-4
7. Geotech Boring Number B-10

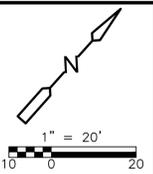
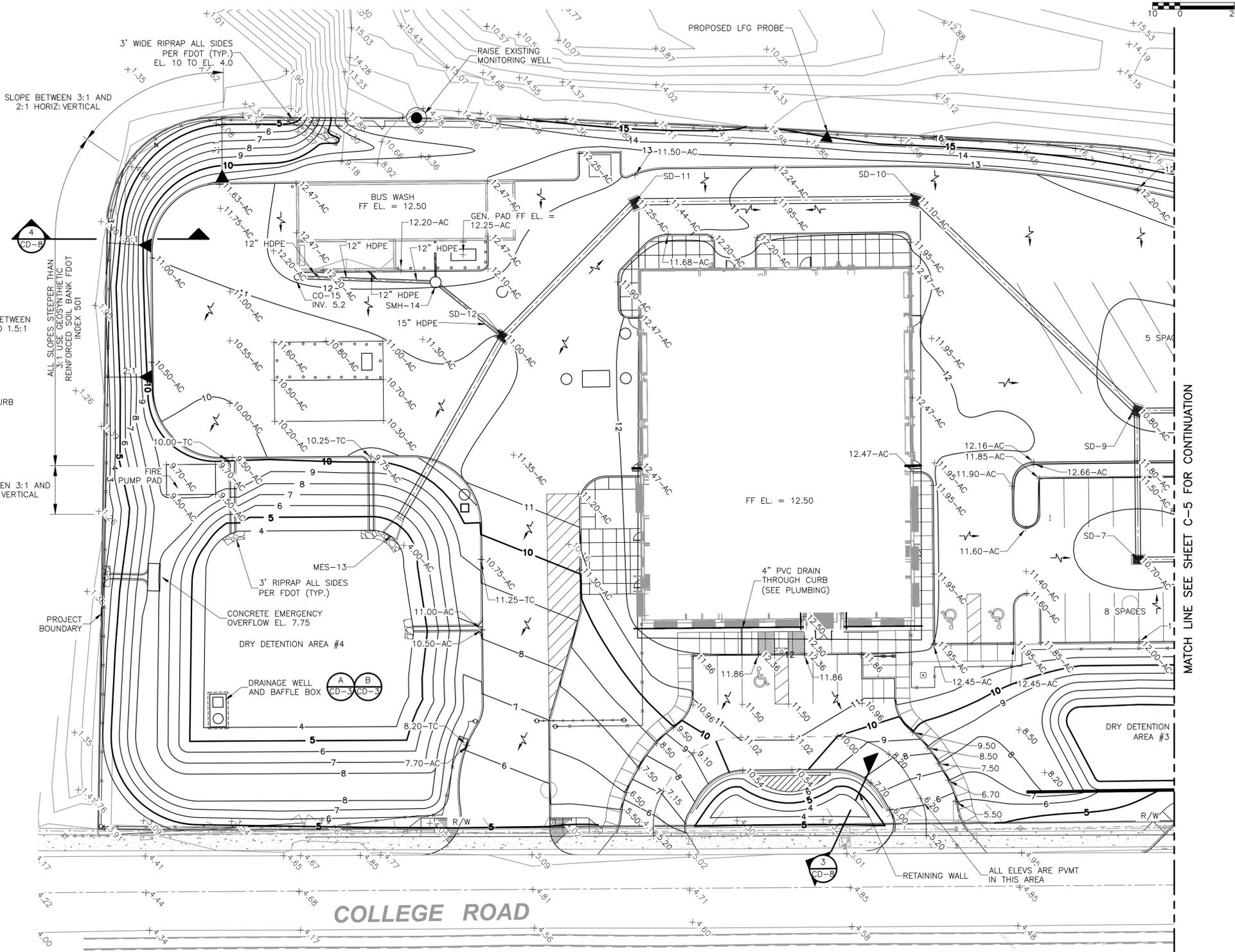
City of Key West Transit Facility TABLE 1: STORM DRAINAGE SYSTEM INFORMATION											
Structure ID	Pipe Length between struct Feet	Diameter Inches	Material	Slope Ft/Ft	Invert Elev. Feet				Top of Grate Elev	Structure Type FDOT Index	Pipe Direction & Skew
					North	West	East	South			
MES-1					5.41					272	
MES-2	60	14x23	HE RCP	0.0033						272	
MES-3										272	
MES-4	60	14x23	HE RCP	0.0033						272	
MES-5										272	
SD-6	70	18	HDPE	0.0022						233 Type F	SE--0 Degrees
SD-7	80	18	HDPE	0.0022						233 Type F	SW--0 Degrees
SD-9	50	18	HDPE	0.0022						233 Type G	NE--0 Degrees
SD-8										233 Type F	NW--0 Degrees
SD-9	80	18	HDPE	0.0022						233 Type G	SE--18.2 Degrees
SD-10	115	24	HDPE	0.0015						233 Type F	SW--19.6 Degrees
SD-11	105	24	HDPE	0.0015						233 Type F	NE--23.3 Degrees
SD-12	70	24	HDPE	0.0015						233 Type F	S--21.7 Degrees
MES-13	32	15	HDPE	0.0025						272	SE--10 Degrees
SMH-14	52	12	HDPE	0.0025	5.00	5.00	4.90		12.00	210 Type P	NW--5 Degrees
CO-15										HDPE Cleanout	

LEGEND
AC = PAVEMENT
TC = TOP OF CURB



SECTION 4
1"=20' HORIZ.
1"=5' VERT.

- NOTES:
- SEE SHEET CD-9 FOR DETAILS REGARDING GEOSYNTHETIC REINFORCED SOIL SLOPE.
 - DESIGNS SUPPLIED BY A MANUFACTURER OR SUPPLIER SHALL BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER.



MATCH LINE SEE SHEET C-5 FOR CONTINUATION

XREFS: [CDMS_2436_MINUS_CONTOURS_CTA13041_EL_CE_SURVEY_CE_Base_CTA13041Boundary_01-15-2014_C_Base_ZATF0000_ZABW0000_CBASE_SURFACE-rebuild] Images: []
Last saved by: MOHLEDP Time: 6/6/2014 8:50:18 AM
p:\projects\2014\136240\99477\04 Design Services NM_100%02 Civil\10 CADD\CD04GDPL.dwg
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. LADNER
DRAWN BY: D. MOHLE
SHEET CHK'D BY: J. LADNER
CROSS CHK'D BY: C. SCOTT
APPROVED BY: J. LADNER
DATE: JUNE 2014

2301 Maitland Center Parkway, Suite 300
Maitland, FL 32751
Tel: (407) 660-2552

CITY OF KEY WEST, FLORIDA
DEPARTMENT OF TRANSPORTATION
PUBLIC TRANSPORTATION FACILITY

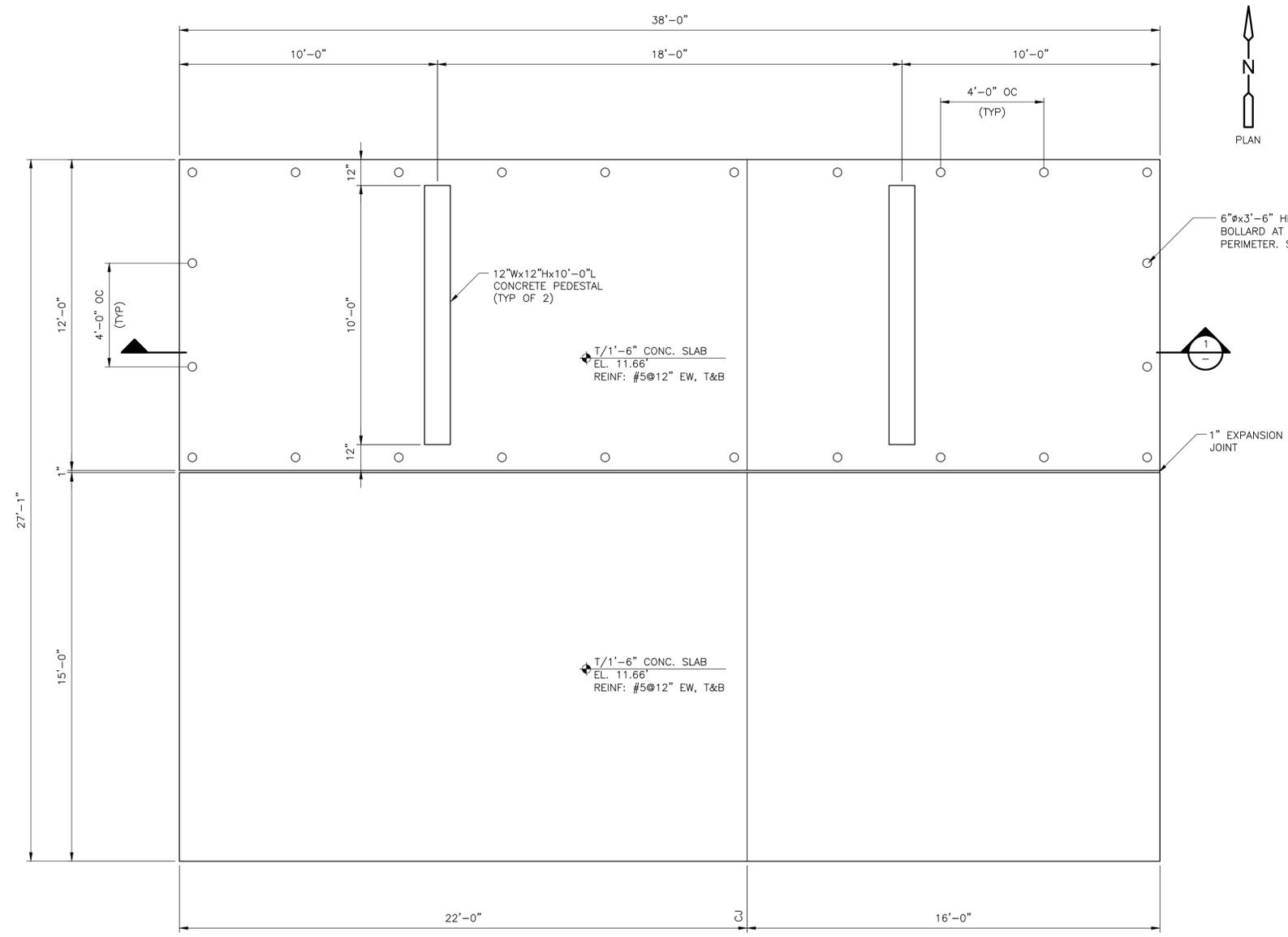
GRADING AND DRAINAGE PLAN 1

JOHN G. LADNER
P.E. NO. 037969

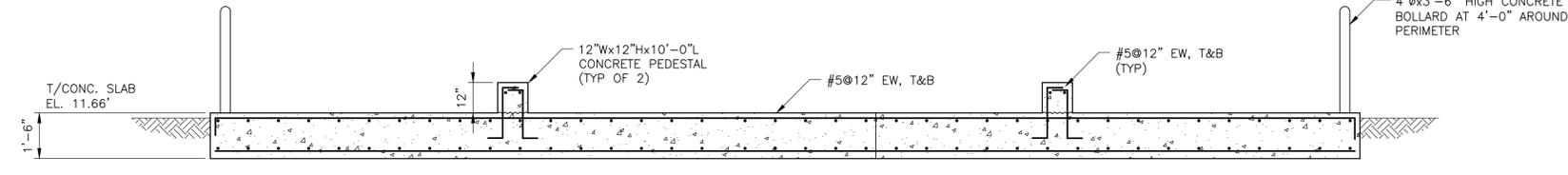
PROJECT NO. 136240-99477
FILE NAME: C004GDPL.DWG

SHEET NO.
C-4

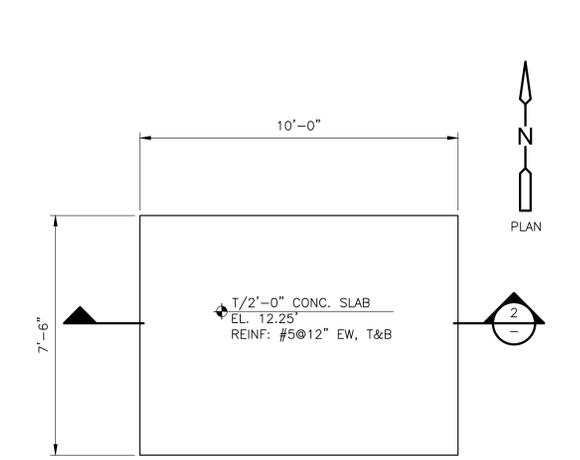
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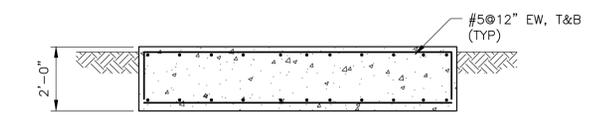
FUEL TANK SLAB
PLAN
3/8" = 1'-0"



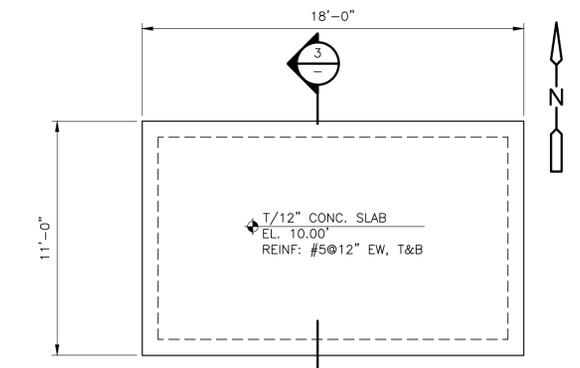
SECTION 1
3/8" = 1'-0"



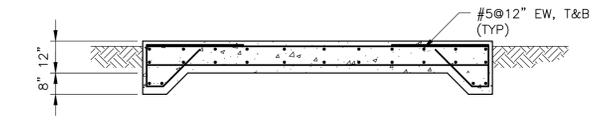
GENERATOR SLAB
PLAN
3/8" = 1'-0"



SECTION 2
3/8" = 1'-0"



FIRE PUMP SLAB
PLAN
1/4" = 1'-0"



SECTION 3
3/8" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: E. RIVERA
 DRAWN BY: P. SCHIAVO
 SHEET CHK'D BY: T. VERWEY
 CROSS CHK'D BY: M. ALFORD
 APPROVED BY: T. VERWEY
 DATE: JUNE 2014

CDM Smith
 2301 Maitland Center Parkway, Suite 300
 Maitland, FL 32751
 Tel: (407) 660-2552

CITY OF KEY WEST, FLORIDA
 DEPARTMENT OF TRANSPORTATION
 PUBLIC TRANSPORTATION FACILITY

FUEL TANK, GENERATOR &
 FIRE PUMP SLAB PLANS AND SECTIONS

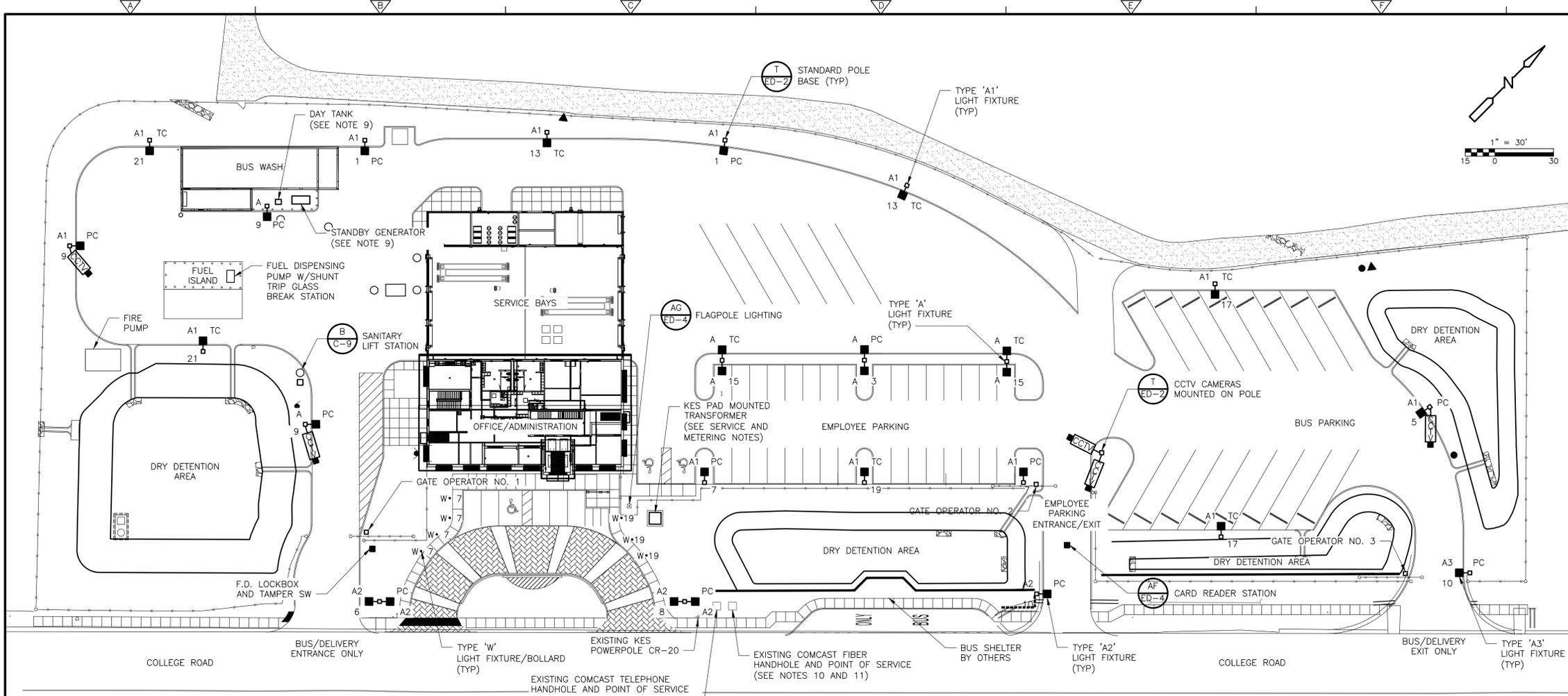
DATE:
 TIMOTHY A VERWEY
 PE NO. 50947
 PROJECT NO. 136240-99477
 FILE NAME: S020FTPL.DWG
 SHEET NO.
 S-20

GENERAL NOTES:

- DO NOT SCALE THE ELECTRICAL DRAWINGS REFER TO THE CIVIL, MECHANICAL, STRUCTURAL DRAWINGS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
- ALL WORK SHALL COMPLY WITH NEC AND LOCAL CODES.
- CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED IN SPECS.
- ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250.122 OF THE NEC (UNLESS OTHERWISE NOTED).
- CONTRACTOR SHALL FIELD VERIFY EXISTING UNDERGROUND UTILITIES, PIPING, ETC. REROUTE NEW CONDUITS, DUCTBANK, MANHOLES, PULL BOXES, ETC., AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- SITE LIGHTING ADJACENT TO COLLEGE ROAD IS FED FROM PANELBOARD LP-1E, LOCATED IN THE ELECTRICAL ROOM.
- ALL OTHER SITE LIGHTING IS FED FROM PANELBOARD LCP-1, LOCATED IN THE ELECTRICAL ROOM.
- REFER TO CCTV RISER DIAGRAM FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 16216 FOR DETAILS AND REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH COMCAST FOR PROVIDING TELEPHONE AND INTERNET SERVICES. HANDHOLE LOCATIONS FOR POINT OF SERVICE SHALL BE FIELD VERIFIED AND COORDINATED WITH COMCAST.
- INTERCEPT AND SPLICE NEW FIBER CABLES AT PULLBOXES. CONTRACTOR SHALL COORDINATE WITH COMCAST AND OWNER FOR EQUIPMENT, MATERIALS, SPLICING AND INSTALLATION. BURIED FIBER OPTIC CABLES SHOWN ARE ESTIMATED LOCATIONS. CONTRACTOR SHALL VERIFY WITH COMCAST AND OWNER FOR EXACT LOCATION AND EXISTING CONNECTION EQUIPMENT. COMCAST POINT OF CONTACT IS GREG DANIELS AVAILABLE AT (XXX) XXX-XXXX AND GREG_DANIELS@CABLE.COMCAST.COM.
- CONTRACTOR SHALL COORDINATE WITH CITY OF KEY WEST INFORMATION TECHNOLOGY (CKWIT) FOR CONNECTION TO EXISTING SYSTEMS. REFER TO SPECIFICATIONS 16720, 16724 AND 16781 FOR ADDITIONAL REQUIREMENTS.

EXCAVATION AND BACKFILL:

- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND SERVICES REQUIRED TO ACCOMPLISH ALL EXCAVATION, BACKFILLING AND RELATED WORK IN ACCORDANCE WITH THE DRAWINGS.
- ALL EXCAVATION AND BACKFILL WORK SHALL CONFORM TO PALM BEACH COUNTY STANDARDS.
- ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO PREVENT FUTURE SETTLEMENT.
- ALL CONDUIT LINES SHALL BE LAID STRAIGHT AND IN TRUE ALIGNMENT WITH THE GRADE AND LOCATION AS SHOWN ON THE DRAWINGS.
- ALL TRENCHING FOR CONDUIT SHALL CONTAIN DETECTABLE UNDERGROUND WARNING TAPE, CONTINUOUS FOR THE ENTIRE LENGTH OF TRENCH.
- ALL TRENCHING WORK SHALL BE SCHEDULED TO ALLOW BACKFILLING IN PAVED AREAS AS THE END OF THE WORK DAY. OPEN TRENCHES IN PAVED AREAS WILL NOT BE PERMITTED.
- CONTRACTOR SHALL RETURN ALL EXCAVATED AREAS TO ORIGINAL GRADE ONCE INSTALLATION IS COMPLETE. ALL AREAS ORIGINALLY COVERED WITH SOD SHALL BE RE-SODDED. ALL AREAS ORIGINALLY PAVED SHALL BE RESTORED.



PLAN

SERVICE AND METERING:

- POWER COMPANY SERVING THIS PROJECT IS KEYS ENERGY SERVICES (KES). SERVICE WILL BE OBTAINED AT 480/277V, WYE GROUND, 3Ø, 4W, 60HZ. CONTRACTOR SHALL PAY ALL FEES AND CHARGES AS REQUIRED TO OBTAIN TEMPORARY AND PERMANENT SERVICE. CONTRACTOR SHALL COORDINATE WITH KES TO PROVIDE AND MEET REQUIREMENTS FOR THESE SERVICES. UPON ACTIVATION OF PERMANENT SERVICE, OWNER SHALL PAY MONTHLY POWER COMPANY CHARGES FOR PERMANENT SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SERVICE COSTS. CONTRACTOR SHALL COORDINATE WITH KES FOR BOTH TEMPORARY AND PERMANENT SERVICE.
- KES CONTACT IS PHIL KLAUSING. PHONE NUMBER IS (305) 295-1053. FAX NUMBER IS (305) 295-1044. EMAIL ADDRESS IS PHIL.KLAUSING@KEYSENERGY.COM.
- KES SHALL BE RESPONSIBLE FOR THE FOLLOWING WORK:
 - FURNISHING AND INSTALLING THE FIRST RISER POLE, PRIMARY CUTOUPS, LIGHTNING ARRESTERS AND GROUNDING.
 - FURNISHING AND INSTALLING PRIMARY CONDUIT AND CABLES.
 - FURNISHING AND INSTALLING THE TRANSFORMER.
 - FURNISHING THE CONCRETE TRANSFORMER PAD.
 - TERMINATION OF UNDERGROUND PRIMARY CABLES AT RISER POLE.
 - TERMINATION OF UNDERGROUND PRIMARY CABLES AT THE TRANSFORMER.
 - TERMINATION OF GROUNDING TO THE TRANSFORMER.
- TERMINATION OF SECONDARY CABLES AT THE TRANSFORMER.
- FURNISHING AND INSTALLING METERING CURRENT TRANSFORMERS (C.T.'S) CURRENT TRANSFORMER METER AND METER WIRING.
- FURNISHING SPLICE BOXES AS REQUIRED.
- FURNISH METER CAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING WORK:
 - CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH KES FOR OBTAINING PERMANENT SERVICE, PAY ALL POWER COMPANY CHARGES AND FURNISH ALL LABOR AND MATERIAL REQUIRED FOR THE ELECTRICAL SERVICE.
 - INSTALL THE CONCRETE TRANSFORMER PAD.
 - FURNISH AND INSTALL SECONDARY CONDUITS AND CABLES.
 - FURNISH AND INSTALL AN EMPTY CONDUIT WITH PULL LINE FROM THE METERING C.T. ENCLOSURE TO THE METER ENCLOSURE. CONDUIT SIZE AND TYPE SHALL BE AS SHOWN ON THE ONE-LINES POWER DIAGRAMS.
 - INSTALL SPLICE BOXES AS DIRECTED BY KES.
 - FURNISH AND INSTALL KES APPROVED METER ENCLOSURE.
 - INSTALL METER CAN FURNISHED BY KES.
 - SUBMIT TO KES FOR THEIR INFORMATION, THE SIZE OF THE SECONDARY CONDUIT AND CABLES BEING PULLED INTO THE TRANSFORMER.

CONDUIT AND WIRE:

- MINIMUM SIZE CONDUIT SHALL BE 3/4-INCH ELECTRICAL TRADE SIZE. MINIMUM SIZE CONDUIT FOR CONCEALED INSTALLATION SHALL BE 1-INCH ELECTRICAL TRADE SIZE. MINIMUM SIZE CONDUIT FOR UNDERGROUND INSTALLATION SHALL BE 2-INCH ELECTRICAL TRADE SIZE.
- EXPOSED EXTERIOR CONDUIT SHALL BE PVC-COATED RIGID GALVANIZED STEEL.
- UNDERGROUND DIRECT-BURIED EXTERIOR CONDUIT SHALL BE SCHEDULE 40 PVC.
- UNDERGROUND CONCRETE-ENCASED CONDUIT SHALL BE SCHEDULE 40 PVC.
- CONCEALED INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) IN FRAME CONSTRUCTION AND FINISHED CEILING SPACES. EMT FITTINGS SHALL BE COMPRESSION TYPE. SET-SCREW FITTINGS ARE NOT ACCEPTABLE.
- ALL AREA WITH FINISHED INTERIORS, SUCH AS CONTROL ROOMS, OFFICES, ETC., SHALL HAVE CONCEALED RACEWAYS IN WALLS AND CEILINGS.
- EMBEDDED AND BURIED NONMETALLIC CONDUITS SHALL HAVE PVC-COATED RIGID GALVANIZED STEEL ELBOWS FOR BENDS OF 30 DEGREES OR GREATER AND BEFORE EXITING FROM MASONRY OR EARTH.
- THE NUMBER OF BENDS SHALL BE LIMITED TO AN EQUIVALENT OF 270 DEGREES IN BETWEEN PULLBOXES AND JUNCTION BOXES.
- ALL CONDUCTORS SHALL USE STRANDED COPPER CONDUCTORS.
- CONDUCTORS NO. 6 AWG OR SMALLER SHALL HAVE THHN/THWN INSULATION. LARGER CONDUCTORS SHALL HAVE XHHW INSULATION.
- 3/16-IN POLYPROPYLENE PULL LINES SHALL BE INSTALLED IN ALL NEW CONDUITS NOTED AS SPARES OR DESIGNATED FOR FUTURE EQUIPMENT.

UNDERGROUND SYSTEM:

- CABLE RACKS, SUPPORTS, PULLING-IN IRONS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL AS MANUFACTURED BY LINE MATERIALS CO. OR EQUAL.
- PRECAST CONCRETE HANDHOLES SHALL BE HEAVY DUTY TYPE, DESIGNED FOR A CLASS H20 WHEEL LOAD. PRECAST HANDHOLES SHALL BE AS MANUFACTURED BY BROOKS PRODUCTS CO.
- HANDHOLE COVERS AND FRAMES SHALL BE HOT DIPPED GALVANIZED AND DESIGNED FOR A CLASS H-20 WHEEL LOAD. HANDHOLE COVERS AND HATCHES SHALL HAVE 316 STAINLESS STEEL SECURITY BOLTS. HANDHOLE COVERS SHALL BE MARKED "ELECTRIC".
- INSTALL RACEWAYS TO DRAIN AWAY FROM BUILDING. RACEWAYS BETWEEN HANDHOLES SHALL DRAIN TOWARD THE HANDHOLES. RACEWAY SLOPES SHALL NOT BE LESS THAN 3-IN PER 100-FT.
- LAY RACEWAY LINES IN TRENCHES ON A CLEAN BACKFILL BEDDING NOT LESS THAN 6-IN THICK AND WELL GRADED AND COMPACTED.
- RACEWAYS TERMINATIONS AT HANDHOLES SHALL BE WITH END BELLS FOR PVC CONDUIT AND INSULATED THROAT GROUNDING BUSHINGS WITH LAY-IN TYPE LUGS FOR METAL CONDUIT. BELL ENDS SHALL BE AS MANUFACTURED BY CARLON OR EQUAL.
- ALL 1-1/2-IN AND SMALLER RACEWAYS SHALL BE SWABBED CLEAN BEFORE INSTALLING CABLES.
- DETECTABLE POLYETHYLENE WARNING TAPE SHALL BE PROVIDED FOR ALL UNDERGROUND RACEWAYS, DUCTBANKS, ETC. TAPE SHALL BE PLACED ALONG THE RACEWAYS ENTIRE LENGTH AND SHALL BE 18" ABOVE THE RACEWAYS ON COMPACTED BACKFILL MATERIAL. WARNING TAPE SHALL BE 5 MIL RED POLYETHYLENE FILM, 6-IN MINIMUM WIDTH. TAPE SHALL BE CAPABLE OF BEING DETECTED OR LOCATED BY EITHER CONDUCTIVE OR INDUCTIVE LOCATION TECHNIQUES. WARNING TAPE SHALL BE MUTUAL INDUSTRIES, PART NO. 17774 OR EQUAL.
- A 3/4-IN BY 10-FT COPPERCLAD GROUND ROD SHALL BE DRIVEN IN THE BOTTOM OF EACH HANDHOLE. ALL BOND WIRES, GALVANIZED CONDUITS AND METAL CABLE RACKS SHALL BE BONDED TO THE GROUND ROD.
- AS-BUILT DRAWINGS SHALL BE FURNISHED SHOWING EACH CONDUIT TERMINATIONS, ELEVATIONS, LOCATIONS, HANDHOLES, ETC.

BOXES, FITTINGS AND SUPPORTS:

- ALL CONDUITS SHALL HAVE A 4-INCH CONCRETE HOUSEKEEPING PAD AT ALL SLAB AND GRADE PENETRATIONS. THE HOUSEKEEPING PAD SHALL HAVE 45 DEGREE, 3/4-INCH CHAMFER AT ALL EXPOSED EDGES.
- FLEXIBLE COUPLINGS SHALL BE ALUMINUM TYPE ECGJH AS MANUFACTURED BY THE CROUSE-HINDS CO.; APPLETON ELECTRIC CO.; KILLARK ELECTRIC MANUFACTURING CO., OR EQUAL.
- CONDUITS TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS (ALUMINUM FOR RAC) AND INSULATED GROUNDING BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.
- CONDUIT TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.
- CONDUITS CONTAINING EQUIPMENT GROUNDING CONDUCTORS AND TERMINATING IN SHEET STEEL BOXES SHALL HAVE INSULATED THROAT GROUNDING BUSHINGS WITH LAY-IN TYPE LUGS.
- CONDUITS SHALL BE INSTALLED USING THREADED FITTINGS U.O.N. PVC CONDUIT TO NON-METALLIC AND METALLIC BOX CONNECTIONS SHALL BE MADE WITH SEALING RINGS, WITH A STAINLESS STEEL RETAINER AS MANUFACTURED BY THOMAS & BETTS CO.
- ALL FIELD CUT THREADS ON PVC COATED GALVANIZED STEEL CONDUIT SHALL BE CLEANED AND PAINTED WITH COLD GALVANIZING COMPOUND BEFORE INSTALLATION. COLD GALVANIZING COMPOUND SHALL BE 95% ZINC RICH PAINT AS MANUFACTURED BY ZRC PRODUCTS COMPANY, A DIVISION OF NORFOLK CORP. OR EQUAL.
- ALL JUNCTION BOXES AND PULL BOXES SHALL BE TYPE 316 STAINLESS STEEL. BOXES SHALL BE SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF NEC ARTICLE 314.
- CONDUITS PASSING FROM HEATED TO UNHEATED SPACES, EXTERIOR SPACES, REFRIGERATED SPACES, COLD AIR PLENUMS, ETC. SHALL BE SEALED WITH "DUXSEAL" AS MANUFACTURED BY MANVILLE OR SEAL FITTING TO PREVENT THE ACCUMULATION OF CONDENSATION.
- ALL UNDERGROUND CONTROL AND INSTRUMENTATION CONDUITS SHALL BE SEPARATED FROM POWER CONDUITS BY A MINIMUM OF 12-INCHES.
- THE MINIMUM COVER FOR DIRECT BURIED CONDUITS SHALL BE 30 INCHES UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
- NEMA 4X STAINLESS STEEL, JUNCTION BOXES AND PULL BOXES SHALL BE 316 STAINLESS STEEL WITH 316 STAINLESS STEEL HARDWARE AND

- GASKETED COVERS. BOXES SHALL HAVE CONTINUOUSLY WELDED SEAMS AND WELDS SHALL BE GROUND SMOOTH. BOX BODIES SHALL BE FLANGED AND SHALL NOT HAVE HOLES OR KNOCKOUTS. BOX BODIES SHALL NOT BE LESS THAN 14 GAUGE METAL AND COVERS SHALL NOT BE LESS THAN 12 GAUGE METAL. COVERS SHALL BE GASKETED AND FASTENED WITH STAINLESS STEEL SCREWS.
- 316 STAINLESS STEEL CHANNEL WITH 316 STAINLESS STEEL HARDWARE (HANGERS, RODS, BACK PLATES, BEAM CLAMPS, FASTENERS, ANCHORS, NUTS, WASHERS, ETC.) SHALL BE USED AS SHOWN ON THE DRAWINGS, IN ALL AREAS. ALL CHANNEL AND HARDWARE SHALL BE RESISTANT TO THE CHEMICALS PRESENT IN THE AREA IN WHICH IT IS USED.
- EXPLOSION PROOF BOXES SHALL BE DESIGNED FOR CLASS 1, GROUP D, DIVISION 1 HAZARDOUS LOCATIONS. THEY SHALL BE CAST IRON WITH CADMIUM_ZINC OR HOT-DIPPED GALVANIZED FINISH, STAINLESS STEEL HARDWARE AND BOLTS; TYPE EJB AS MANUFACTURED BY THE CROUSE-HINDS COMPANY; APPLETON ELECTRIC CO.; THE PYLE NATIONAL CO. OR EQUAL.
- CAST MALLEABLE IRON DEVICE BOXES SHALL BE TYPE FD. ALL CAST MALLEABLE IRON BOXES AND FITTINGS SHALL BE PVC COATED WITH PVC COATED CAST COVERS AND STAINLESS STEEL SCREWS AS MANUFACTURED BY THE CROUSE-HINDS CO. OR EQUAL.
- CAST MALLEABLE IRON FITTINGS (C'S, T'S, LB'S, ETC.) SHALL BE PVC COATED AND OF THE MOGUL DESIGN (WITH ROLLERS) AS MANUFACTURED BY APPLETON ELECTRIC CO.
- ALL BOXES AND FITTINGS USED WITH PVC COATED CONDUIT SHALL BE FURNISHED WITH A PVC COATING BONDED TO THE METAL. THE SAME THICKNESS AND COLOR AS USED ON THE COATED STEEL CONDUIT. THE ENDS OF COUPLINGS AND FITTINGS SHALL HAVE A MINIMUM OF ONE PIPE DIAMETER PVC OVERLAP TO COVER THREADS AND PROVIDE A SEAL.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. CARTER
 DRAWN BY: R. CARTER
 SHEET CHK'D BY: D. LILES
 CROSS CHK'D BY: M. ALFORD
 APPROVED BY: S. PERRY
 DATE: JUNE 2014

2301 Maitland Center Parkway, Suite 300
 Maitland, FL 32751
 Tel: (407) 660-2552

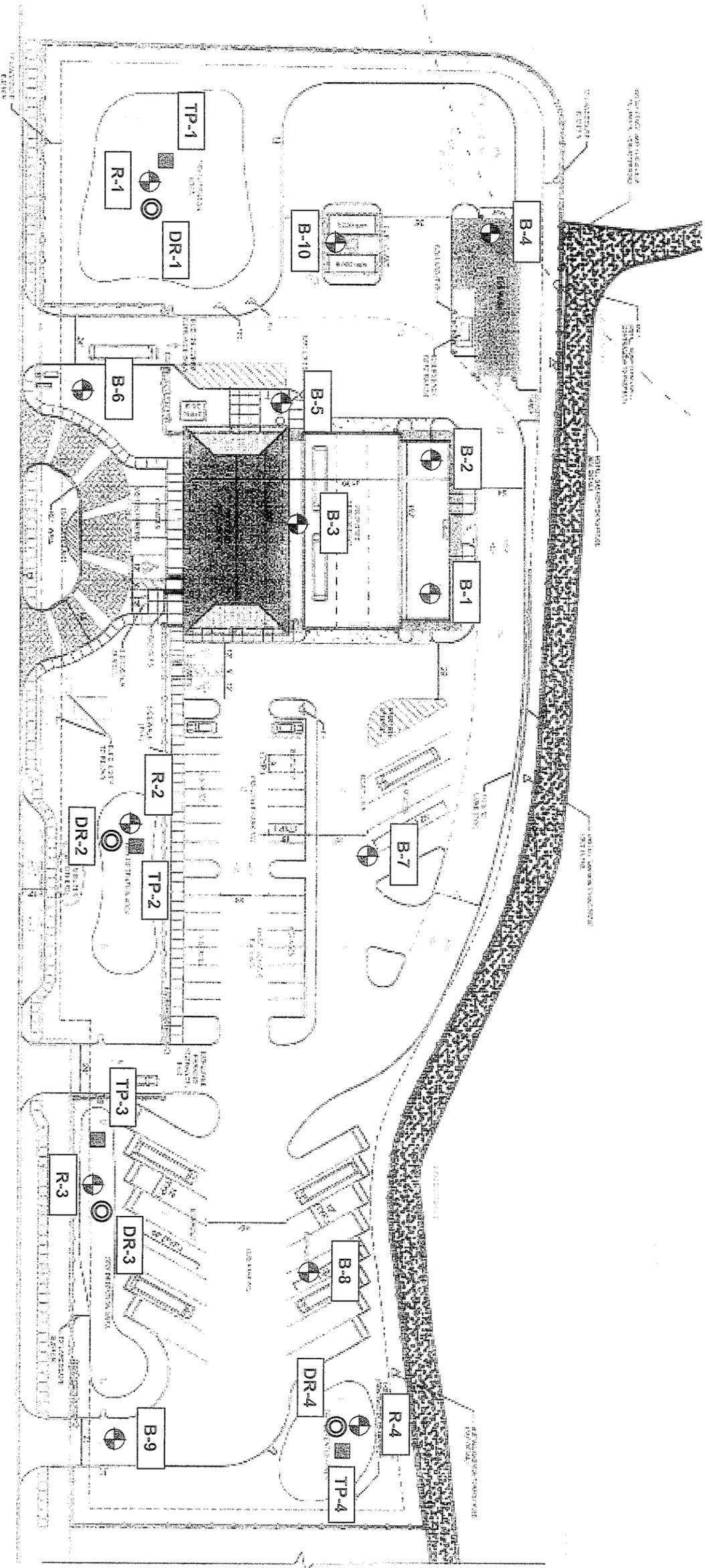
CITY OF KEY WEST, FLORIDA
 DEPARTMENT OF TRANSPORTATION
PUBLIC TRANSPORTATION FACILITY

ELECTRICAL SITE PLAN AND NOTES

DATE: SPENCER PERRY
 PE NO. 62587

PROJECT NO. 136240-99477
 FILE NAME: E004STPL.DWG
 SHEET NO. E-4

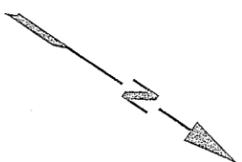
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COLLEGE ROAD

- LEGEND -

- ⊕ Approx. Test Boring Location
- Approx. Test Pit Location
- ⊗ Approx. Double Ring Test Location



NOT TO SCALE

Project No. 1218.4

Douglas N. Higgins
 Key West Public Transportation Facility
 5701 College Road
 Key West, Florida

GEOTECHNICAL EXPLORATION

FIGURE 1



**NUTTING
 ENGINEERS**
 OF FLORIDA, INC.
 ESTABLISHED 1987



1310 Neptune Drive
 Boynton Beach, FL, 33426
 Telephone: 561-736-4900
 Fax: 561-737-9975

BORING NUMBER B-4

PAGE 1 OF 1

PROJECT NUMBER 1218.4

CLIENT Douglas N. Higgins, Inc.

PROJECT NAME Key West Transit Facility

PROJECT LOCATION College Avenue, Key West, FL

DATE STARTED 1/14/14 COMPLETED 1/15/14

SURFACE ELEVATION REFERENCE Approx. 1' above road crown

DRILLING METHOD Standard Penetration Boring

GROUND WATER LEVELS:

LOGGED BY P. Tyson CHECKED BY C. Gworek

∇ AT TIME OF DRILLING 4.5 ft

APPROXIMATE LOCATION OF BORING As located on site plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲			
						10	20	30	40
						PL MC LL ----- ----- ----- 20 40 60 80			
						□ FINES CONTENT (%) □			
						20	40	60	80
0		Brown LIMESTONE FRAGMENTS, trace quartz fine sand	AU 1						
		Dk. brown PEAT and TRASH, trace limestone fragments	AU 2						
5	∇		SS 3	4-4-4-6	8				
		Lt. tan LIMESTONE, trace cemented sand, trace fine sand	SS 4	5-5-9-11	14				
10			SS 5	18-21-19-33	40				
			SS 6	17-18-21-22	39				
15		Lt. tan slightly silty LIMESTONE, little fine sand	SS 7	21-19-21	40				
20		Bottom of hole at 20.0 feet.	SS 8	20-31-19	50				

TEST NUTTING BOREHOLE 2-1218.4 DOUGLAS N. HIGGINS, INC. - KEY WEST TRANSIT FACILITY.GPJ GINT US.GDT 1/27/14



1310 Neptune Drive
 Boynton Beach, FL, 33426
 Telephone: 561-736-4900
 Fax: 561-737-9975

BORING NUMBER B-10

PROJECT NUMBER 1218.4

CLIENT Douglas N. Higgins, Inc.

PROJECT NAME Key West Transit Facility

PROJECT LOCATION College Avenue, Key West, FL

DATE STARTED 1/14/14 COMPLETED 1/16/14 SURFACE ELEVATION REFERENCE Approx. 6' above road crown

DRILLING METHOD Standard Penetration Boring

GROUND WATER LEVELS:

LOGGED BY P. Tyson CHECKED BY C. Gworek AT TIME OF DRILLING 5.0 ft

APPROXIMATE LOCATION OF BORING As located on site plan

TEST NUTTING BOREHOLE 2-1218.4 DOUGLAS N. HIGGINS, INC. - KEY WEST TRANSIT FACILITY.GPJ GINT US.GDT 1/27/14

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	△ SPT N VALUE △					
						10	20	30	40		
						PL		MC	LL		
						20	40	60	80		
						□ FINES CONTENT (%) □					
						20	40	60	80		
0		Lt. tan LIMESTONE FRAGMENTS, little quartz fine sand	AU 1								
			AU 2								
5	▽	Dk. brown silty TRASH	SS 3	6-4-2-1	6	△					
		Lt. tan LIMESTONE, trace cemented sand, trace fine sand	SS 4	2-2-3-4	5	△					
10		Bottom of hole at 10.0 feet.	SS 5	16-21-23-25	44						△