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5. DTPW does not accept facsimile or electronic bid responses of any kind. All bids must be submitted in writing, on the forms provided by the County, to the address designated in the bid package. It is the bidder's responsibility to ensure that their submittals are received at the designated location, complete and on time. Bids received after the due date will be rejected, even if the solicitation is still appearing on this site.

6. These documents shall not be altered in any manner. Utilization or viewing of these electronic documents shall constitute implicit acknowledgement and acceptance of these provisions. Failure to comply with these provisions may result in rejection of your bid.

Miami-Dade County

SET # __2__ OF __2__ SETS

Department of Transportation
and Public Works



Cow Pen Rd. at Miami Lakes Dr.

Miami-Dade County

Engineering Drawings

Small Business Enterprise-Good & Services Program (SBE-G&S):
SBE-G&S Goals: *Not Applicable*
Community Workforce Program:
Not Applicable
DTPW Capital Improvements Engineer:
Marco Movilla, Eng.II

RPQ Issue Date:
October 30, 2026.

SECTION 8: ENGINEERING DRAWINGS

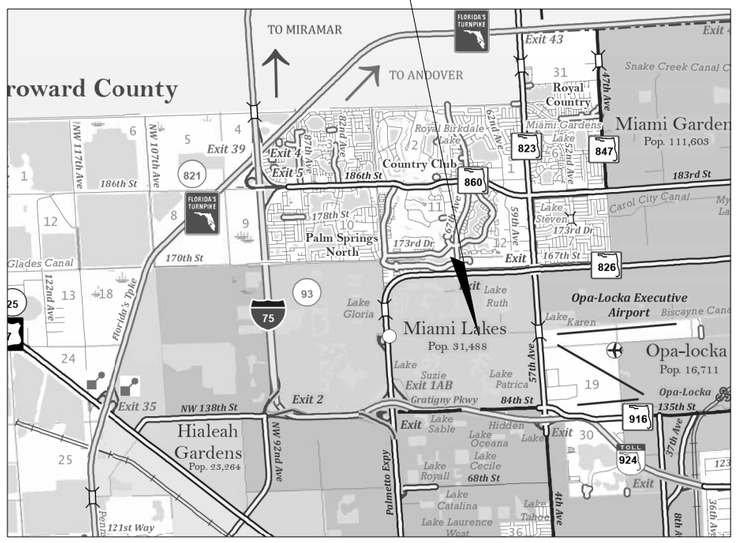
SECTION 8: ENGINEERING DRAWINGS

PLANS FOR
NEW TRAFFIC SIGNAL AT
MIAMI LAKES DR. AT COW PEN RD.
PROJECT No. EDP-MT-20230006 / WORK ORDER No. 5

INDEX OF SHEETS

SHT. No.	SHEET DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	TYPICAL SECTION
4	SUMMARY OF QUANTITIES
5	GENERAL NOTES
6	ROADWAY PLAN
7	MAINTENANCE OF TRAFFIC PLAN
8-9	SIGNING & PAVEMENT MARKING PLAN
10-18	SIGNALIZATION PLAN
19	STANDARD MAST ARM ASSEMBLIES DATA TABLE
20-26	LIGHTING PLAN
27	REPORT OF CORE BORINGS

PROJECT LOCATION



NOTE:

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ROADWAY PLANS
ENGINEER OF RECORD:

PABLO BIELECKI, P.E.
P.E. LICENSE NUMBER 63061
TECHNIKA CONSULTING, INC.
1695 NW 110TH AVENUE, SUITE 321
MIAMI, FLORIDA 33172

PREPARED FOR

MIAMI-DADE

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
TRAFFIC ENGINEERING DIVISION

STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

BY

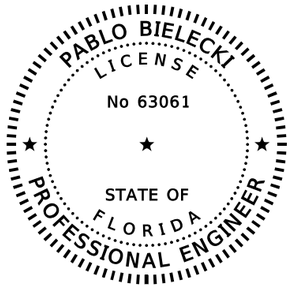
TECHNIKA CONSULTING, INC.
1695 NW 110TH AVENUE, SUITE 321
MIAMI, FLORIDA 33172

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2023-2024), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2023), AS AMENDED BY CONTRACT DOCUMENTS.

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APPROVED _____ COUNTY ENGINEER	
RECOMMENDED _____ ASSISTANT DIRECTOR	
SUBMITTED _____ TRAFFIC ENGINEERING DIVISION	
PROPOSED _____	CHECK _____
DESIGN _____	DRAWN _____
DATE _____	SHEET ____ OF ____

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



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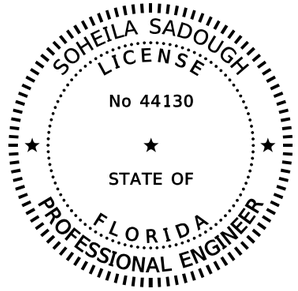
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P.E. LICENSE NUMBER 63061
TECHNIKA CONSULTING, INC.
1695 NW 110TH AVENUE, SUITE 321
MIAMI, FLORIDA 33172

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C

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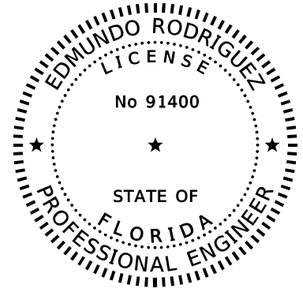
ON THE DATE ADJACENT TO THE SEAL

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SOHEILA SADOUGH, P.E.
P.E. LICENSE NUMBER 44130
ASA CONSULTING, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FLORIDA 33326

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C

SHT. No.	SHEET DESCRIPTION
19	STANDARD MAST ARM ASSEMBLIES DATA TABLE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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EDMUNDO RODRIGUEZ, P.E.
P.E. LICENSE NUMBER 91400
GREEN DADE, INC.
7220 SW 12TH STREET
MIAMI, FLORIDA 33144

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C

SHT. No.	SHEET DESCRIPTION
20-26	LIGHTING PLAN

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TECHNIKA CONSULTING, INC.
Pablo Bielecki, P.E. - P.E. License No. 63061
1695 NW 110th Avenue, Suite 321
Miami, Florida 33172
Phone: 786-254-0853

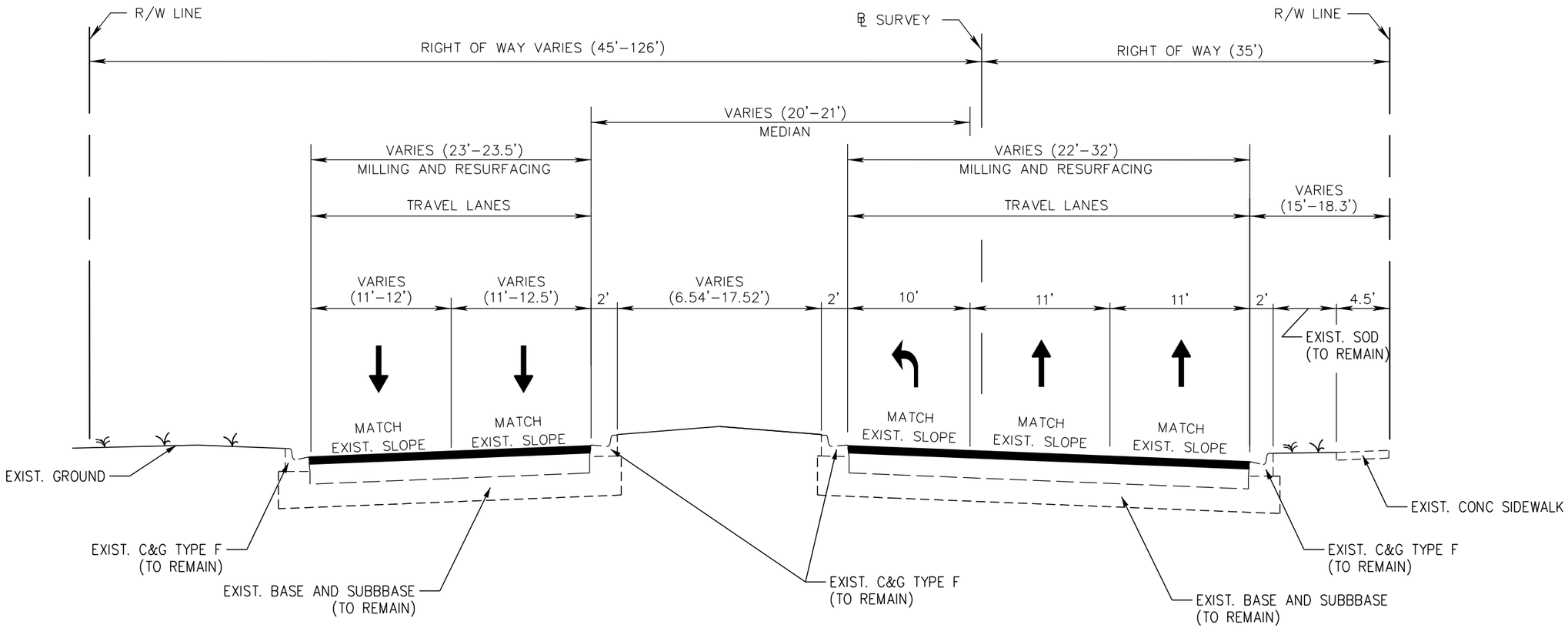
	NAME	DATE		NAME	DATE
DESIGNED BY	AK	5/17/24	DRAWN BY		
CHECKED BY	PB	5/20/24	CHECKED BY		

SUPERVISED BY: PABLO BIELECKI, P.E. No. 63061

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNATURE SHEET



TYPICAL SECTION

MIAMI LAKES DRIVE

STA. 11+60.78 TO STA. 13+08.81

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)
RESURFACE WITH FRICTION COURSE, TRAFFIC C, FC-9.5 (1")

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

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TECHNIKA CONSULTING, INC.
Pablo Bielecki, P.E. - P.E. License No. 63061
1695 NW 110th Avenue, Suite 321
Miami, Florida 33172
Phone: 786-254-0853

	NAME	DATE		NAME	DATE
DESIGNED BY	AK	5/17/24	DRAWN BY		
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SUPERVISED BY: PABLO BIELECKI, P.E. No. 63061

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

TYPICAL SECTION

SUMMARY OF QUANTITES				
PAY ITEM NO.	ITEM	UNIT	QUANTITY	
			TOTAL	ADDITIONAL
104-18	INLET PROTECTION SYSTEM	EA	2	
110-1-1	CLEARING AND GRUBBBING (INCLUDES REMOVAL OF EXISTING PAVEMENT, SIDEWALKS, DRIVEWAYS, DRAINAGE STRUCTURES AND PIPES, VEGETATION, MISCELLANEOUS CONCRETE. ALSO INCLUDES TREE REMOVAL, CHERRY HEDGE REMOVAL, MISCELLANEOUS EARTHWORK AND SAW CUTTING.)	LS	1	
110-4-10	REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER, SIDEWALKS INCLUDING RAMPS AND MISCELLANEOUS CONCRETE IN AREAS NOT INCLUDED IN THE CLEARING AND GRUBBING ITEM	SF	1359	
327-70-1	MILLING 1" AVG DEPTH	SY	1491	
337-7-82	ASPHALTIC CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	TN	83.9	
520-1-10	CONCRETE CURB & GUTTER (TYPE F) (6" CURB, 18" GUTTER) (INCLUDES COST OF LIMEROCK BASE AND SUBGRADE.)	LF	220	
522-1	CONCRETE SIDEWALK AND DRIVEWAYS (4" THICK RESTORATION AND NEW, CLASS I CONCRETE, 3000 P.S.I) (INCLUDING PEDESTRIAN RAMPS AND SIDEWALK CURBS)	SY	112	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS (6" THICK, 3000 P.S.I. CONCRETE AT 28 DAYS) (INCLUDING PEDESTRIAN RAMPS AND SIDEWALK CURBS)	SY	99	
527-2	DETECTABLE WARNING ON WALKING SURFACE	SF	64	
570-1-2	PERFORMANCE TURF, SOD	SY	235	
580-336	TREE TRIMMING	HRS	50	

PAY ITEM NOTES

520-1-10 INCLUDES DROP CURB AT DRIVEWAYS AND 3 FT OF CURB ENDING AS DIRECTED BY THE ENGINEER.

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REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TECHNIKA CONSULTING, INC.
Pablo Bielecki, P.E. - P.E. License No. 63061
1695 NW 110th Avenue, Suite 321
Miami, Florida 33172
Phone: 786-254-0853

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MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SUMMARY OF QUANTITIES

GENERAL NOTES

1.B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.-29).

2. ANY N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY RON TAYLOR, FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (FDEP) SURVEYING AND MAPPING, 3900 COMMONWEALTH BLVD., MAIL STATION 105, TALLAHASSEE, FLORIDA 32399-3000 TELEPHONE (850) 245-2606.

3. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION PUBLIC WORKS A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.

4. ALL STATIONS AND OFFSETS REFER TO CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE STATED.

5. ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.

6. THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STENCILED NUMBERS ON THE FACE OF CURB:
   A. FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN
   B. AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED
   C. WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED

THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES.

CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION.

7. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION PUBLIC WORKS, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

8. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).

9. THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

10. KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:

AT&T	STEVE LOW	305-222-8745
COMCAST	RICARDO DAVIDSON	754-221-1322
FLORIDA CITY GAS	ANDREW PUGLISI	561-312-6824
FPL	JOHN GIRALDO	305-442-5172
MDC WATER & SEWER	MANUEL DIAZ	786-552-4424
MDC PUBLIC WORKS	OCTAVIO VIDAL	786-345-0986

11. BASELINE CONTROL SURVEY CONDUCTED BY MIAMI-DADE COUNTY. PLEASE CALL MR. MIKE WHITLING AT 305-375-2655 CONCERNING SURVEY RELATED QUESTIONS.

12. EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY MIAMI-DADE COUNTY.

13. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.

14. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES.

15. MIAMI-DADE WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION, PUMP STATIONS UNIT, 3071 SW 38 AVENUE, FAX NO. 305-668-3626. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE, FAX NO. 305-545-3482.
FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT 305-805-4575 BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT AT 305-274-9272. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.

16. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER, AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.

17. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

18. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.

19. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN CONSTRUCTION COST.

20. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.

21. THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

22. IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR'S SPECIALTY ENGINEER MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF THE PERMIT AND DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.

24. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.

25. EXPLORATORY OR PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, CONDUITS, POLE FOUNDATIONS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH IMMEDIATE NOTIFICATION OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR EXPLORATORY OR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.

26. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.

27. ALL EXCESS MATERIAL, AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE.

28. ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.

29. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.

30. EXISTING ABOVE GROUND FEATURES ARE SHOWN ACCORDING TO THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.

31. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

32. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.

33. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.

34. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.

35. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.

36. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS, ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.

37. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL LOADS.

38. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"X20" AREA.

39. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMAIN UNLESS OTHERWISE NOTED.

40. EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON-TOXIC BITUMASTIC SEALANT.

41. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.

42. CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE.

43. ELEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

44. RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

45. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.

46. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.

47. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION SHOULD BE USED IN THE STABILIZING OPERATIONS AT THESE LOCATIONS.

48. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STANDARDS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT STANDARD PLANS.

49. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.

50. THE LOCATION OF SOME DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.

51. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.

52. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.

53. CONTRACTOR TO INSTALL 1/2" PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.

54. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6" CONCRETE.

55. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS.

56. DESIGN WATER TABLE ELEVATION: 5.5 FT

57. MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 8.0 FT

58. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.

59. SHOP DRAWINGS FOR SIGNAL EQUIPMENT AND MAST-ARMS ARE TO BE DELIVERED TO TRAFFIC SIGNALS AND SIGN DIVISION LOCATED AT 7100 NW 36 ST MIAMI, FL 33166 TO THE ATTENTION OF OSCAR RUBIO.

60. PROPOSED SIDEWALKS TO BE INSTALLED IN COMPLIANCE WITH ADA AND MDC PUBLIC WORKS MANUAL.

61. EXISTING SIDEWALK IMMEDIATELY ADJACENT TO THE AFFECTED SIDEWALKS MUST BE ADA COMPLIANT, OTHERWISE NEEDS TO BE REPLACED.

62. THE MAXIMUM CROSS-SLOPE FOR NEW SIDEWALK AND PEDESTRIAN ACCESS ROUTE (PAR) IS 2%.

63. MINIMUM SIDEWALK CLEAR PEDESTRIAN ACCESS ROUTE (PAR) IS 48" WIDE.

64. ALL PULL BOXES' LID SURFACES ON THE SIDEWALK MUST BE FLUSH AND ADA COMPLIANT.

65. DO NOT "MEET AND MATCH EXISTING SIDEWALK", UNLESS THE EXISTING IS ADA COMPLIANT.

66. DETECTABLE WARNING SURFACE (DWS) TO BE SELECTED FROM MDC ARTICLE 527 LIST.

67. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL GREEN AREAS IMPACTED BY THE PROPOSED WORK AT NO ADDITIONAL COST. SOD TYPE SHALL BE PALMETTO ST. AGUSTINE.

68. CONTRACTOR IS RESPONSIBLE TO REPAIR ANY IRRIGATION IMPACTED OR DAMAGED BY THE PROPOSED WORK AT NO ADDITIONAL COST.

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

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TECHNIKA CONSULTING, INC.
Pablo Bielecki, P.E. - P.E. License No. 63061
1695 NW 110th Avenue, Suite 321
Miami, Florida 33172
Phone: 786-254-0853

	NAME	DATE		NAME	DATE
DESIGNED BY	AK	5/17/24	DRAWN BY		
CHECKED BY	PB	5/20/24	CHECKED BY		

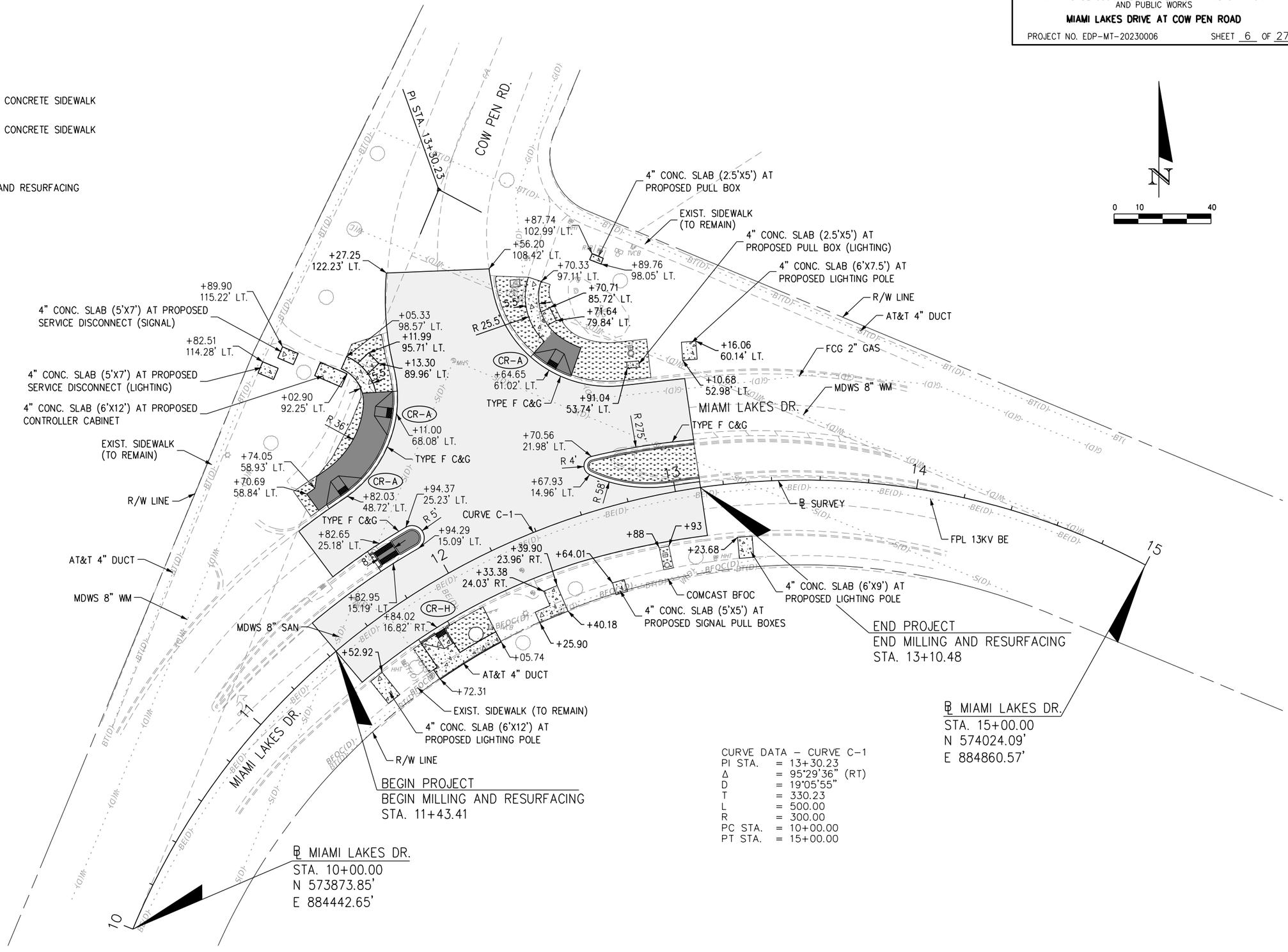
SUPERVISED BY: PABLO BIELECKI, P.E. No. 63061

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

GENERAL NOTES

LEGEND:

- DENOTES 4" THICK CONCRETE SIDEWALK
- DENOTES 6" THICK CONCRETE SIDEWALK
- DENOTES SOD
- DENOTES MILLING AND RESURFACING



BEGIN PROJECT
BEGIN MILLING AND RESURFACING
STA. 11+43.41

℄ MIAMI LAKES DR.
STA. 10+00.00
N 573873.85'
E 884442.65'

END PROJECT
END MILLING AND RESURFACING
STA. 13+10.48

℄ MIAMI LAKES DR.
STA. 15+00.00
N 574024.09'
E 884860.57'

CURVE DATA – CURVE C-1
PI STA. = 13+30.23
Δ = 95°29'36" (RT)
D = 19°05'55"
T = 330.23
L = 500.00
R = 300.00
PC STA. = 10+00.00
PT STA. = 15+00.00

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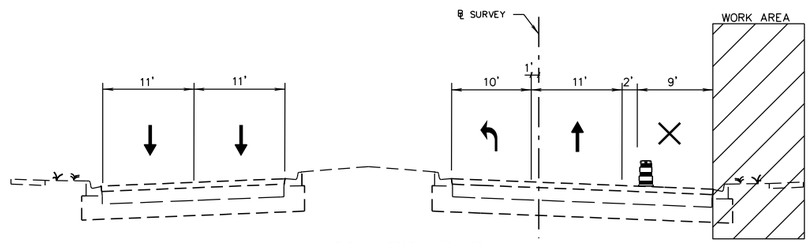
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ROADWAY PLAN

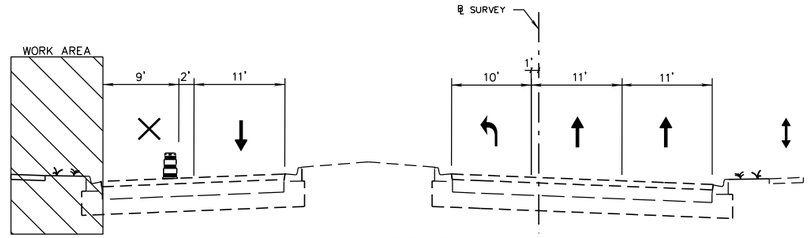
GENERAL NOTES

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL AS PERTAINS TO MAINTENANCE OF TRAFFIC, THE CURRENT EDITION OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA
2. THE CONTRACTOR SHALL DEVELOP MAINTENANCE OF TRAFFIC PLAN OF HIS OWN, MEETING THE REQUIREMENTS SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND THE FDOT INDEX 600 SERIES. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION. THE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
3. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 6 INCH LIMEROCK BASE, PRIME COAT AND 1-1/2 INCHES HMA. THE BASE LAYER SHALL BE PLACED OVER A FIRM, UNYIELDING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 339-2, TEMPORARY ASPHALT.
4. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHOLES THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 339-2, TEMPORARY ASPHALT.
5. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY COORDINATING WITH DADE COUNTY PUBLIC WORKS DEPARTMENT AND DADE COUNTY TRAFFIC OPERATIONS.
6. THE CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF A DETOUR IN ACCORDANCE WITH SECTION 336.07 OF THE FORIDA STATUTES.
7. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
8. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
9. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NONEVENT DAYS/NIGHTS. NO INTERRUPTION TO TRAFFIC IS PERMITTED FROM MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M. OR ON WEEKENDS AND HOLIDAYS.
10. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL WAYS SHALL BE 25 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE STANDARD INDEXES.
11. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS INCLUDE ALL COMMERCIAL ESTABLISHMENTS AND BUSINESSES.
12. SIGNS ARE TO BE LOCATED BEFORE EACH BUSINESS OR SHOPPING PLAZA ENTRANCE WHERE CONSTRUCTION NEGATIVELY IMPACTS THE ACCESS TO THE BUSINESS OR SHOPPING PLAZA OR AS DIRECTED BY THE ENGINEER. TWO SIGNS WILL TYPICALLY BE REQUIRED AT EACH ENTRANCE. SIGNS ARE TO BE DISPLAYED AS DESCRIBED IN INDEX 600 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS.
13. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
14. CONTRACTOR SHALL REMOVE, RELOCATE, OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING, AND RESTORING THE SIGNS SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
15. EACH EXISTING STREET NAME AND TRAFFIC SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED IN THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
16. THE CONTRACTOR SHALL NOT PROPOSE ANY ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLANS.
17. ARROWS ON THE TRAFFIC CONTROL PLAN DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
19. FOR DROP-OFF, THE CONTRACTOR'S ATTENTION IS DIRECTED TO FDOT STANDARD INDEX NO. 600, SHEET 7 OF 10. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
20. DURING ASPHALT CONSTRUCTION OPERATIONS, NO MORE THAN 11#4" DROP-OFF BETWEEN ADJACENT TRAVEL LANES OR AT TRANSVERSE JOINTS SHALL BE ALLOWED WHEN LANES ARE OPEN TO TRAFFIC. WHERE DROP OFF CONDITIONS EXIST, THE SIGNING FOR UNEVEN PAVEMENT SHALL BE INSTALLED FOR THE DURATION OF THE CONDITION (W8-9AP).
21. THE CONTRACTOR IS TO PLACE TEMPORARY OR REMOVABLE PAVEMENT MARKINGS BETWEEN EACH LAYER OF PAVEMENT, AND IS RESPONSIBLE FOR THE TEMPORARY RELOCATION OF STOP BARS & STOP SIGNS AS APPLICABLE. PAVEMENT MARKINGS AND BARRICADES PLACEMENT SHALL BE APPROPRIATELY COORDINATED.
22. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS. COST OF REMOVAL OF TEMPORARY PAVEMENT MARKINGS, REGARDLESS OF METHOD, IS INCLUDED IN THE RELATED PAY ITEMS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
23. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
24. TEMPORARY RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON THE EDGE, CENTER, AND LANE LINES OF ALL CROSS-OVERS, TRANSITIONS, AND TANGENT SECTIONS WITHIN THE WORK ZONE WHERE THE VEHICLE PATHS ARE ALTERED. THE SPACING FOR THESE RPMS SHALL BE 40 FT. ON CENTERS FOR TANGENT SECTIONS AND 5 FT. FOR TRANSITIONS, CURVES, AND CROSSOVERS. THE RPMS SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
25. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY TRAFFIC SIGNS AND SIGNALS DIVISION LOCATED AT 7100 NW 36 STREET, MIAMI, FLORIDA 33166 AND PHONE NO. (305) 592-3470, 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF RELOCATING TRAFFIC SIGNAL HEADS, PROVIDING AND REMOVING TEMPORARY SIGNALS, AND MAINTAINING THE EXISTING TEMPORARY TRAFFIC SIGNAL SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
26. THE PROPOSED SIGNALS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO THE REMOVAL OF THE EXISTING SYSTEM AND SHALL BE ADJUSTED TO THE TRAFFIC NEEDS FOR EACH CONSTRUCTION PHASE.
27. THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OR PHONE LINE CONSTRUCTION. CONTRACTORS SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
28. INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL STRUCTURAL COURSE IS IN PLACE.
29. AT ALL INTERSECTING STREETS, NO LESS THAN ONE "ROAD CONSTRUCTION AHEAD" SIGN AND ONE "END CONSTRUCTION" SIGN MUST BE INSTALLED. (TWO EACH FOR STREETS WITH MEDIAN).
30. ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER. FOR EVERY BLOCK, CONSTRUCTION OF DRAINAGE AND SIDEWALK SHOULD BE CONCURRENT WITH ROADWAY CONSTRUCTION.
31. MOT TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 HMA SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL, WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN PAY ITEM 339-2, TEMPORARY ASPHALT.
32. COORDINATION WITH DADE COUNTY PUBLIC WORKS DEPARTMENT WILL BE REQUIRED.
33. PAVED TEMPORARY CONNECTIONS SHALL BE PROVIDED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.
34. TRAFFIC SHALL BE MAINTAINED ON A PAVED, DUST-FREE SURFACE AT ALL TIMES.
35. THE CONTRACTOR MUST MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES. ALL LANES TO BE A MINIMUM OF 10 FT. IN WIDTH.
36. PLANS INDICATE ONLY THE PHASES FOR CONSTRUCTION. MILLING AND RESURFACING OPERATIONS MUST FOLLOW THE SAME FDOT 600 INDEX SERIES, AND MUST BE ACCOMPLISHED AT HOURS APPROVED BY THE ENGINEER.
37. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ROADWAY LIGHTING ILLUMINATION LEVELS DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING OR SUPPLY TEMPORARY LIGHTING UNTIL THE PROPOSED SYSTEM IS IN OPERATION. THE CONTRACTOR SHALL SUBMIT A COMPLETE PROPOSED METHOD OF MAINTAINING LIGHTING FOR APPROVAL BY COUNTY ENGINEER PRIOR TO BEGINNING WORK. REFER TO ROADWAY LIGHTING PLANS AND OTHER APPLICABLE DRAWINGS FOR INFORMATION ON EXISTING AND PROPOSED ROADWAY LIGHTING AND DETAIL OF ROADWAY CONSTRUCTION. IF ANY PART OF THE SYSTEM IS OWNED BY F.P.&L, COORDINATE CLOSELY WITH F.P.&L.
38. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE EROSION CONTROL MEASURES TO PREVENT CLOG OF PROPOSED DRAINAGE STRUCTURES AND SEDIMENT INTRUSION ON WATERWAYS DURING CONSTRUCTION. THESE MEASURES SHALL BE APPROVED BY THE ENGINEER AND CONFORM WITH CURRENT EDITION OF THE FDOT DESIGN STANDARDS FOR EROSION CONTROL (100 SERIES).
39. CONTRACTOR MUST MAINTAIN DRAINAGE AT ALL TIMES. THE EXISTING DRAINAGE SYSTEM SHALL BE KEPT OPERATIONAL OR TEMPORARY DRAINAGE PROVIDED WHILE THE PROPOSED DRAINAGE SYSTEM IS BEING CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TEMPORARY DRAINAGE AS APPROVED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
40. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 INCHES (150 MM) ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 339-2, TEMPORARY ASPHALT.
41. PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC SHALL BE MAINTAINED AND GUIDED USING APPROVED WARNING LIGHTS, SIGNING, AND DELINEATION DEVICES ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES THROUGHOUT THE PROJECT LIMITS. THE TRAVEL PATH SHALL BE A MINIMUM OF 4 FT. WIDE WITH A SMOOTH SURFACE THAT IS NOT SLICK AND IT SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
42. THE CONTRACTOR SHALL FURNISH AND MAINTAIN VARIABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER. MESSAGES FOR THE VMS SHALL BE AS DIRECTED BY THE ENGINEER. THE VMS SHALL BE IN PLACE ONE WEEK BEFORE THE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC. VMS INSTALLATION, OPERATION, AND REMOVAL TO BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
43. THE CONTRACTOR MUST PROVIDE FLASHING ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.



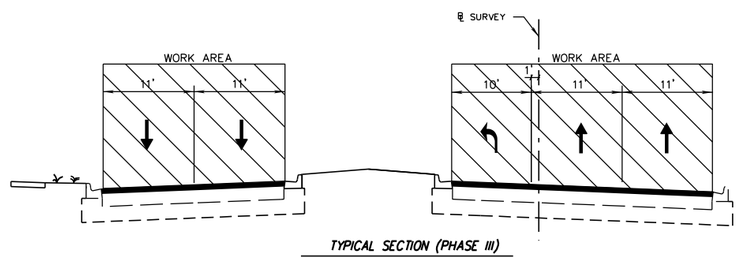
TYPICAL SECTION (PHASE I)
MIAMI LAKES DR.
STA. 11+60.78 TO STA. 13+08.81

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT STANDARD PLANS.
2. CLOSE OUTSIDE LANE AND MAINTAIN ONE 11' THROUGH LANE AND ONE 10' LEFT TURN LANE OPEN TO TRAFFIC IN EB DIRECTION ON EXISTING ROADWAY (SEE GENERAL NOTES FOR LANE CLOSURE RESTRICTIONS).
3. PERFORM ALL ROADSIDE WORK INCLUDING THE INSTALLATION OF NEW SIGNALS MAST ARMS, SIDEWALK AND CURB RAMP RECONTRUCTION AND SIGNING. MAINTAIN WB SIDEWALK OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES.



TYPICAL SECTION (PHASE II)
MIAMI LAKES DR.
STA. 11+60.78 TO STA. 13+08.81

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT STANDARD PLANS.
2. CLOSE OUTSIDE LANE AND MAINTAIN ONE 11' LANE OPEN TO TRAFFIC IN WB DIRECTION ON EXISTING ROADWAY (SEE GENERAL NOTES FOR LANE CLOSURE RESTRICTIONS).
3. PERFORM ALL ROADSIDE WORK INCLUDING THE INSTALLATION OF NEW SIGNALS MAST ARMS, SIDEWALK AND CURB RAMP RECONTRUCTION AND SIGNING. MAINTAIN EB SIDEWALK OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES.



TYPICAL SECTION (PHASE III)
MIAMI LAKES DR.
STA. 11+60.78 TO STA. 13+08.81

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT STANDARD PLANS.
2. MAINTAIN ONE 11' THROUGH LANE OPEN TO TRAFFIC IN EACH DIRECTION ON EXISTING ROADWAY (SEE GENERAL NOTES FOR LANE CLOSURE RESTRICTIONS).
3. PERFORM MILLING AND RESURFACING AND INSTALL PAVEMENT MARKINGS.

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MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

MAINTENANCE OF TRAFFIC PLANS

SUMMARY OF QUANTITES

PAY ITEM NO.	ITEM	UNIT	QUANTITY	
			TOTAL	ADDITIONAL
700-1-11B	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12	AS	17	
700-1-600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	3	
700-2-111	MULTI-COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA	1	
700-2-600	MULTI-COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	1	
706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	76	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	26	
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1	
711-11-123	THERMOPLASTIC (WHITE) (SOLID) (12")	LF	276	
711-11-124	THERMOPLASTIC (WHITE) (SOLID) (18")	LF	28	
711-11-125	THERMOPLASTIC (WHITE) (SOLID) (24")	LF	81	
711-11-224	THERMOPLASTIC (YELLOW) (SOLID) (18")	LF	50	
711-11-241	THERMOPLASTIC (YELLOW) (SKIP) (6")	LF	68.64	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	180	
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	1	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	4	
711-16-101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.126	
711-16-133	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 12"-APPROACH TO TOLL PLAZA OR 3-9 LANE DROP"	GM	0.008	
711-16-201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID 6"	GM	0.084	

NOTES

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.
3. ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
5. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
6. THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
7. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
8. THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
9. THE CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS W3-1 (STOP AHEAD) AND W3-3A (SIGNAL AHEAD) ON RESPECTIVE SIDE STREETS ACCORDING TO STANDARDS AS DIRECTED BY THE ENGINEER.
10. EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE DESIGN STANDARDS AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
11. ANY SIGNING MATERIALS, INCLUDING SUPPORTS, TO BE REMOVED AS NOTED ON PLAN SHEETS, SHALL BE DELIVERED BY THE CONTRACTOR IN EXISTING CONDITION, IN CARE OF THE STOREKEEPER AT THE MIAMI-DADE COUNTY MAINTENANCE YARD, 7100 NW 36 STREET, MIAMI, FL 33166.
12. SCHOOL CROSSING SIGNS AND SCHOOL SPEED ZONE SIGNS TO CONFORM WITH MUTCD/FDOT STANDARDS (FLUORESCENT YELLOW BACKGROUNDS)
13. REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD PLANS INDEX NO 706-001.

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TECHNIKA CONSULTING, INC.
Pablo Bielecki, P.E. - P.E. License No. 63061
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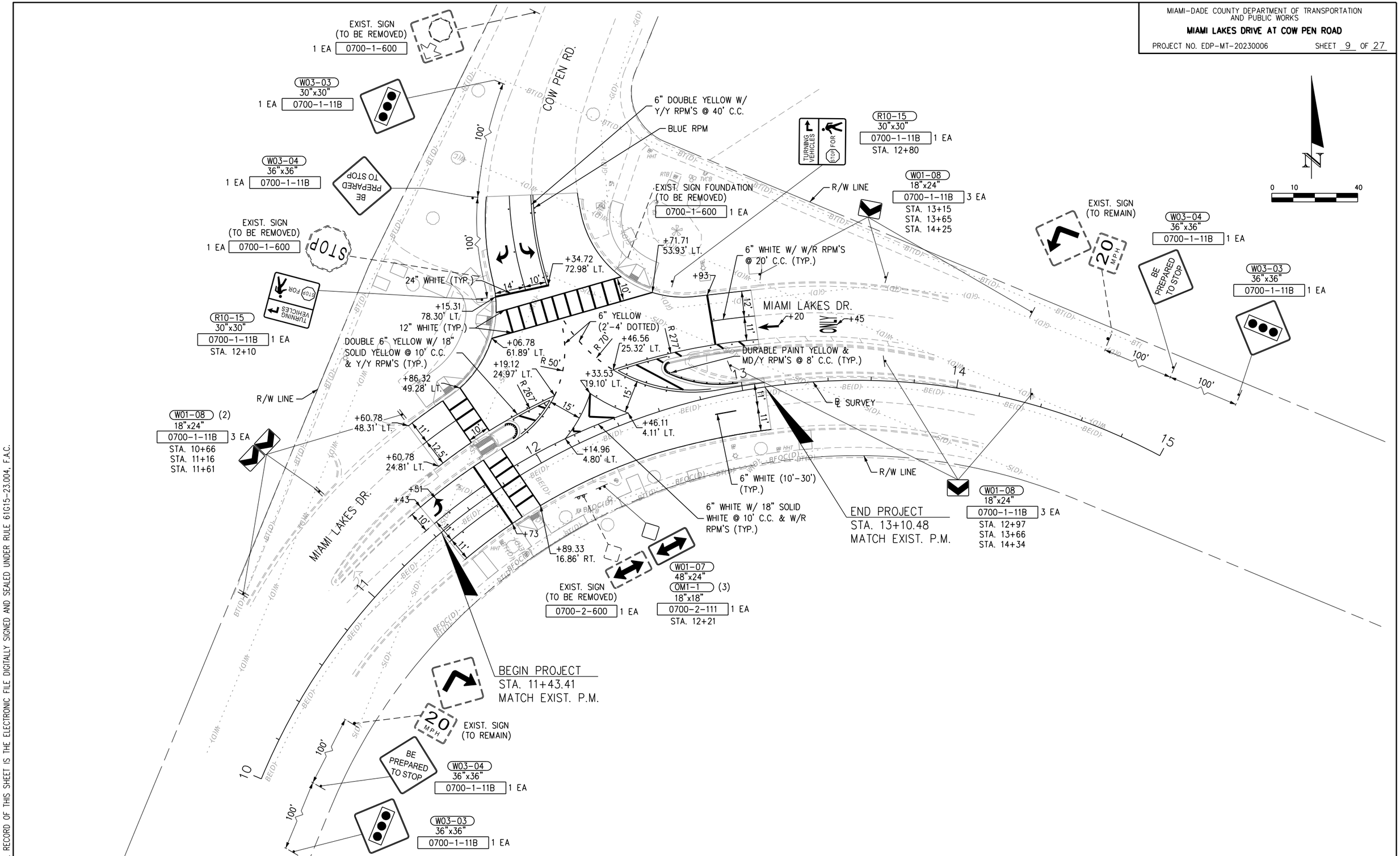
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SUPERVISED BY: PABLO BIELECKI, P.E. No. 63061

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNING & PAVEMENT MARKING SUMMARY OF QUANTITIES



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SIGNING AND PAVEMENT MARKING PLAN

SUMMARY OF QUANTITES

PAY ITEM NO.	ITEM	UNIT	QUANTITY	
			TOTAL	ADDITIONAL
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	524	
632-7-1A	TRAFFIC CONTROL CABLE (11-22 CONDUCTOR)	LF	700	
632-7-1B	TRAFFIC CONTROL CABLE (4-7 CONDUCTOR)	LF	900	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	33	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1	
639-2-1	SERVICE WIRE (#6 AWG WITH THW INSULATION) (THREE CONDUCTOR SET) (BLACK,WHITE AND GREEN)	LF	200	
639-3-11	ELECTRICAL SERVICE (INCLUDES NEMA-3R DISCON- NECT SWITCH) POLE CONDUIT	AS	1	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1	
646-1-11	ALUMINUM SIGNALS POLE (FURNISH & INSTALL) (PEDESTAL)	EA	4	
649-21-1	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA	1	
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1	
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA	1	
650-51-313	TRAFFIC SIGNAL (FURNISH AND INSTALL) (3 SECTION, 1 WAY), ALUMINUM (COMPLETE WITH HORIZONTAL MOUNTING BRACKETS AND LAMPS) (LED)	AS	7	
650-51-513	TRAFFIC SIGNAL (ALUMINUM)(FURNISH AND INSTALL) (5 SECTION, 1 WAY), (COMPLETE WITH HORIZONTAL MOUNTING BRACKETS AND LAMPS) (LED)	AS	2	
653-191	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	4	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	3	
665-11	PEDESTRIAN DETECTOR (INCLUDES PUSH BUTTON SIGN)	EA	4	
670-5-140	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 2070	AS	1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	3	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	3	

NOTES

1. ALL TRAFFIC SIGNALIZATION CONDUIT AND WIRING SHALL BE IN ACCORDANCE WITH SIGNALIZATION PLANS AND SHALL BE SUFFICIENT QUANTITY FOR COMPLETE INSTALLATION.

2. ALL HARDWARE INCIDENTAL TO THE COMPLETE SIGNALIZATION AS INDICATED ON PLAN SHEETS AND SUMMARY OF QUANTITIES SHEET SHALL BE INCLUDED IN THE COST OF ITEMS SUPPLIED.

3. THE CONTRACTOR SHALL BE RESPONSBILE FOR PROVIDING A COMPLETE ASSEMBLY WHEN SPECIFIED IN THE TABULATION OF QUANTITIES.

4. WHEN TWO, THREE, AND FOUR WAY SIGNAL HEAD BRACKETS ARE SPECIFIED, THE TOP BRACKET SHALL BE CONSTRUCTED OF HOLLOW CAST ALUMINUM AND THE BOTTOM BRACKET SHALL BE CAST ALUMINUM, BOTH WITH STAINLESS STEEL STUDS, WASHERS AND NUTS

5. SIGNAL HEADS SHALL BE OF A CAST ALUMINUM AND SHALL HAVE FLAT BLACK BODIES WITH FLAT BLACK TUNNEL VISORS AND DOORS. THE SIGNAL LENSES SHALL BE GLASS.

6. ALL GROUND RODS SHALL BE COPPER CLAD 5/6" X10'-0" SECTIONS WITH BONDING WIRE AND CLAMP.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING AT&T FOR PROVIDING AND CONNECTING SERVICE PICK-UP. THE CONTRACTOR SHALL ALSO PROVIDE PULL WIRE FOR AT&T CONDUIT.

8. THE CONTRACTOR SHALL CONTACT FP&L AND AT&T REPRESENTATIVE PRIOR TO INSTALL CONDUITS TO THEIR MANHOLES. THE SERVICE CONDUIT SHALL BE BROUGHT TO THE MANHOLES FROM THE SIDES AND NOT THE TOP.

9. THE CONTRACTOR SHALL REPLACE ENTIRE SIDEWALK FLAG WHEN SIDEWALK IS DISTURBED BY CONSTRUCTION. CONTRACTOR SHALL RESTORE EXISTING PAVEMENT MARKINGS DSTURBED BY TRENCHING OF SAW CUTTING.

10. INSTALL SPARE CONDUIT OF EQUAL LENGTH TO SIGNAL CONDUIT WITHIN SAME TRENCH.

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SUMMARY OF QUANTITIES

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MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNALIZATION PLAN

GENERAL NOTES

1. GROUND READINGS SHALL BE OBTAINED BY APPROVED METHODS AS PER SECTION 520 OF THE STANDARD SPECIFICATIONS, OR BY METHODS SUBMITTED AND APPROVED BY THE ENGINEER.

2. GOVERNING STANDARDS AND SPECIFICATIONS ARE: THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE FDOT STANDARDS PLANS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MIAMI-DADE COUNTY TECHNICAL SPECIAL PROVISIONS FOR TRAFFIC SIGNALS.

3. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND FOR THE AMOUNT OF COORDINATION REQUIRED. THE COST SHALL BE INCLUDED IN HIS BID.

4. THE CONTRACTOR SHALL BE AWARE THAT EXISTING UNDERGROUND AND ABOVEGROUND FACIUTIES WITHIN THE BOUNDS OF WORK MAY NOT BE SHOWN IN THE SIGNAL PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND CURB CUT RAMPS.

5. KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:

AT&T	STEVE LOW	305-222-8745
COMCAST	RICARDO DAVIDSON	754-221-1322
FLORIDA CITY GAS	ANDREW PUGLISI	561-312-6824
FPL	JOHN GIRALDO	305-442-5172
MDC WATER & SEWER	MANUEL DIAZ	786-552-4424
MDC PUBLIC WORKS	OCTAVIO VIDAL	786-345-0986

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, FEE SHALL BE REFLECTED IN THE CONTRACTOR'S BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.

7. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IN WRITING, NO LESS THAN 14 WORKING DAYS IN ADVANCE OF THE NEED FOR ELECTRICAL POWER SERVICE HOOKUPS OF SIGNALIZATION/STREET LIGHTING FACILITIES. THE CONTRACTOR SHALL SUBMIT A LETTER OF REQUEST ALONG WITH AN AFFIDAVIT OF GENERAL ELECTRICAL WORK, SIGNED AND CERTIFIED BY A MASTER ELECTRICIAN.

8. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO NOTIFY MIAMI-DADE COUNTY TRAFFIC SIGNAL AND SIGNS DIVISION 48 HOURS PRIOR TO ANY CONSTRUCTION THAT INTERFERES WITH THE NORMAL OPERATION OF THE EXISTING SIGNALS

9. THE SIGNAL MAINTAINING AGENCY IS MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS. SIGNAL OPERATION TIMINGS ARE TO BE PROVIDED BY MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, TRAFFIC SIGNALS AND SIGNS DIVISION. CONTACT SHOULD BE MADE WITH THE TRAFFIC CONTROL CENTER
LOCATED AT:
MIAMI-DADE COUNTY TRAFFIC SIGNAL AND SIGN DIVISION
7100 N.W. 36th STREET
MIAMI, FLORIDA 33166
TELEPHONE: (305) 592-8925

10. MAST ARM POLE CONCRETE FOUNDATION IS TO BE POURED IN ONE SINGLE POURING WITH ITS TOP AT THE GRADE AND SLOPE OF THE FINISHED SIDEWALK. FINISHED SIDEWALK GRADE WILL BE LAID OUT AND FORMED IN ORDER TO ACHIEVE THIS FINAL GRADE SLOPE. DISTANCES P1 AND P2 FOR ANCHOR BOLTS WILL BE STRICTLY ENFORCED. FOUNDATIONS NOT IN COMPLIANCE WITH THESE REQUIREMENTS WILL BE COMPLETELY REMOVED AND POURED AGAIN AT THE CONTRACTOR'S EXPENSE.

11. PULL BOXES, MAST ARM FOUNDATIONS AND CONTROLLER FOUNDATIONS SHALL HAVE A MINIMUM OF 4" CLEARANCE FROM ALL JOINTS AND EDGES OF SIDEWALK. THERE SHALL BE NO EXPANSION MATERIAL AROUND PULL BOXES, MAST ARM FOUNDATIONS AND CONTROLLER FOUNDATIONS. PULL BOXES SHALL NOT BE PLACED IN PEDESTRIAN RAMPS.

12. THE CONTRACTOR RESPONSE TIME TO ALL REPORTED MALFUNCTIONS OF TRAFFIC SIGNAL WITHIN THE PROJECT LIMITS SHALL BE NO MORE THAN TWO (2) HOURS. AND SHALL RESTORE ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT TO ITS LEVEL OF OPERATION WITHIN TWENTY-FOUR (24) HOURS. DURING THIS TIME THE CONTRACTOR SHALL PROVIDE, AT HIS EXPENSE, TEMPORARY TRAFFIC CONTROL DEVICES, FLAGMAN PERSONNEL AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW OF TRAFFIC AT THE AFFECTED SIGNALIZED INTERSECTIONS. THIS WOULD INCLUDE EXCEPTION AREAS THAT NEED TO BE ADJUSTED FOR M.O.T. PHASING. THE ENGINEER SHALL APPROVE ALL MODIFICATIONS PRIOR TO THEIR IMPLEMENTATION.

13. ALL TRAFFIC SIGNAL EQUIPMENT (INCLUDING UNDAMAGED MAST ARMS) SHOWN OR NOTED ON THE PLAN SHEET IN CONFLICT WITH THE DESIGN SHALL BE REMOVED BY THE CONTRACTOR, TAGGED AS TO LOCATION AND DELIVERED AFTER DISASSEMBLY INTO COMPONENT PARTS, AT A TIME DESIGNATED BY THE MAINTAINING AGENCY, TO BE RECEIPTED BY THE STOREKEEPER OR HIS DESIGNEE. CONCRETE SIGNAL POLES SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL COST RELATED TO REMOVAL ITEMS SHALL BE INCLUDED UNDER PAY ITEM (690-100). SAID EQUIPMENT SHALL BE UNLOADED BY THE CONTRACTOR AT:

MIAMI-DADE COUNTY MAINTENANCE YARD
710D N.W. 36th STREET
MIAMI, FLORIDA 33166
TELEPHONE: (305) 592-3580

14. THE CONTRACTOR SHALL PROVIDE A TWO MAN BUCKET TRUCK AND ASSIST THE INSPECTOR IN PHYSICALLY EXAMINING EACH SIGNAL HEAD THE SAME DAY IT IS ERECTED.

15. THE CONTRACTOR SHALL USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD-IN WIRES, OVERHEAD TRANSMISSION LINES, AND UNDERGROUND UTILITIES. ALL LOOP WIRES DAMAGED DURING CONSTRUCTION WILL BE REPLACED AS DIRECTED BY THE PROJECT ENGINEER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL HAND EXCAVATE IN THE VICINITY OF UNDERGROUND UTILITIES. THE HAND EXCAVATING PAYMENT SHALL BE INCLUDED IN THE PRICE OF EQUIPMENT/CONDUIT.

16. THE LOCATION OF ALL POLES, PEDESTALS AND OTHER EXCAVATION SHALL BE CONSIDERED APPROXIMATE DUE TO THE POTENTIAL OF CONFLICT WITH UNDERGROUND UTILITIES. SLIGHT ADJUSTMENTS AS DIRECTED BY THE ENGINEER MAY BE NECESSARY TO SATISFY SAFETY CODE, OR CLEAR UTILITIES.

17. WHERE CONDUIT CROSSES AN EXPANSION JOINT OF A STRUCTURE AN APPROPRIATE EXPANSION FITTING SHALL BE INSTALLED IN ACCORDANCE WITH FDOT DESIGN STANDARDS. ABOVEGROUND CONDUIT SHALL BE SECURELY ATTACHED TO THE SURFACE OF THE SUPPORTING STRUCTURE IN ACCORDANCE WITH THE FDOT STANDARDS AND THE FDOT UTILITY ACCOMMODATION MANUAL. PER THE UTILITY ACCOMMODATION MANUAL, THE USE OF EXPANSION ANCHORS IS PROHIBITED ON BRIDGES OR OTHER STRUCTURES. ALL SUPPORTING HARDWARE IS TO BE 318 STAINLESS STEEL

18. ALL PULL BOXES HAVING METAL LIDS SHALL RECEIVE 20' OF GROUNDING ELECTRODES EXCEPT WHERE THOSE PULL BOXES ARE ASSOCIATED WITH A POLE, WHICH THEN CAN BE GROUNDED WITH THE POLE GROUNDING ELECTRODES.

19. ALL CONDUIT SHALL BE 2 INCH MINIMUM UNLESS OTHERWISE SPECIFIED.

20. THE CONTRACTOR SHALL FURNISH AND INSTALL A DEDICATED AND CONTINUOUS RUN OF 2 INCH PVC CONDUIT AND TRAFFIC CONTROL CABLE FROM EACH INDIVIDUAL MAST ARM AND/OR PEDESTRIAN SIGNAL PEDESTAL TO THE TRAFFIC CONTROLLER CABINET. DOUBLE MAST ARMS SHALL REQUIRE TWO CONDUIT RUNS AND CONTROL CABLES PER INSTALLATION.

21. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL LENSES FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES SHALL BE GLASS.

22. STANDARD LENGTH RUNNEL VISORS SHALL BE USED ON ALL PROPOSED VEHICULAR SIGNAL INDICATORS UNLESS NOTED OTHERWISE ON THE PLAN SHEET.

23. DELAY DETECTORS FOR RIGHT TURN LANES SHALL OPERATE IN THE NORMAL MODE DURING CORRESPONDING PHASE GREEN AND IN THE DELAY MODE DURING ALL OTHER INTERVALS. DELAY DETECTORS FOR LEFT TURN LANES SHALL OPERATE IN THE DELAY MODE DURING CORRESPONDING PHASE GREEN AND IN THE NORMAL MODE DURING ALL OTHER INTERVALS.

24. INTERSECTIONS WITH EXCLUSIVE PEDESTRIAN FEATURE, PEDESTRIAN HEADS P2 AND P8 SHALL BE WIRED SEPARATELY FROM PEDESTRIAN HEADS P4 AND P8 TO THE CONTROLLER.

25. THE CONTRACTOR SHALL VERIFY ALL MAST ARM ELEVATIONS AND LOCATIONS INCLUDING POSSIBLE UTILITY CONFLICTS PRIOR TO ORDERING MAST ARMS. THE CONTRACTOR SHALL VERIFY MAST ARM ROADWAY ORIENTATION PRIOR TO PLACEMENT. MAST ARMS OF IMPROPER SIZE OR INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL MAST ARM ELEVATIONS WILL MEET MUTCD AND MIAMI-DADE COUNTY REQUIREMENTS FOR LOW POINT OF CLEARANCE PRIOR TO ORDERING MAST ARMS.

26. THE CONTRACTOR IS PROHIBITED FROM DEWATERING INTO SURFACE WATER. STANDARD PRACTICES SHALL BE EMPLOYED TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING INLETS.

27. WHEN NO RESURFACING IS ANTICIPATED WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL QUALITY OF ALL. TRENCHING AND EXCAVATION RESTORATIONS.

28. WHEN FINAL INSPECTION OF THE PROJECT IS CONDUCTED, THE CONTRACTOR SHALL FURNISH THE INSPECTOR WITH TWO COMPLETE SETS OF AS-BUILT PLANS.

29. ALL TRAFFIC SIGNALS TO BE MAINTAINED ERECT AND IN GOOD CONDITION UNLESS TO BE REMOVED PER PLANS. STOP, YIELD. DO NOT ENTER, OR ONE WAY SIGNS SHALL BE RE-ERECTED IMMEDIATELY IF BENT OR KNOCKED DOWN. ALL OTHER SIGNS TO BE REPAIRED WITHIN 24 HOURS.

30. AS SOON AS THE CONTRACT IS AWARDED, THE CONTRACTOR WILL LAY OUT ARM POLES, REQUEST UTILITIES LOCATIONS IN THE MAST ARM AREA, CONTACT THE PROJECT ENGINEER AND JOINTLY DETERMINE THE POLE LOCATION AND THE MAST ARM LENGTH. CONTRACTOR SHALL THEN SUBMIT SHOP DRAWINGS.

31. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR SIGNAL INSTALLATION.

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GENERAL NOTES

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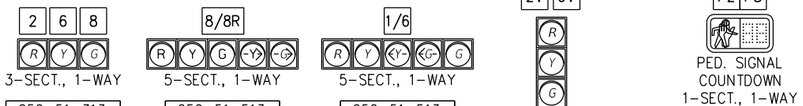
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MIAMI-DADE COUNTY

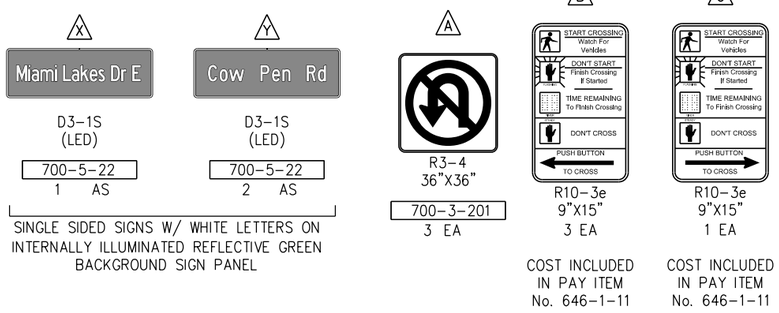
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNALIZATION PLAN

SIGNAL HEAD DETAILS



SIGN DETAIL



SERVICE POINT:

639-1-122	1 AS
639-2-1	200 LF
639-3-11	1 EA
641-2-12	1 EA

PULL BOXES:

635-2-11	33 EA
635-2-12	1 EA

PEDESTRIAN ITEMS:

646-1-11	4 EA
665-11	4 EA

CONDUITS:

630-2-12	524 LF
632-7-1A	700 LF
632-7-1B	900 LF

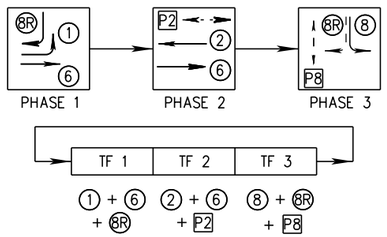
CONTROLLER ITEMS:

660-4-11	1 EA
660-4-12	3 EA
670-5-140	1 AS

CONTROLLER OPERATION:

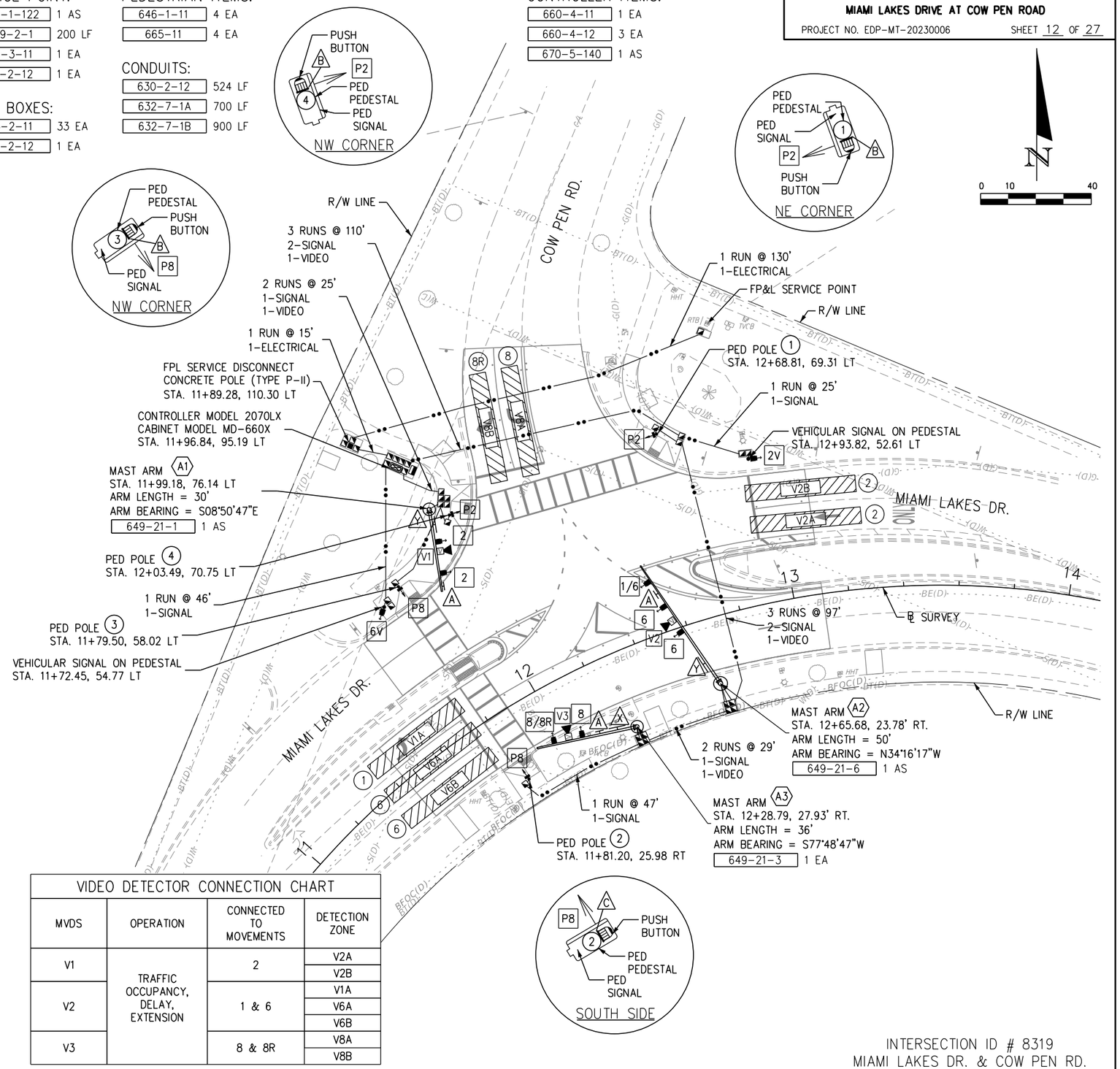
1. MAJOR STREET: MIAMI LAKES DR.
   MINOR STREET: COW PEN RD.
2. CABINET MODEL IS MD-660X & CONTROLLER MODEL IS 2070LX.
3. ALL PEDESTRIAN & VEHICULAR PHASES ACTUATED (PHASE 2 RECALL).
4. FLASHING OPERATION:
   MOVEMENT 2 AND 6 – YELLOW
   MOVEMENTS 8 – RED
5. MOVEMENT 1 IS PROTECTED/PERMISSIVE.
6. PHASE 2 MOVEMENTS 2 AND 6 ARE COORDINATED.

SIGNAL OPERATION PLAN



CONTROLLER TIMING REFERENCE TABLE

	VEHICLE MOVEMENT	1	2	3	4	5	6	7	8
FUNCTION	APPROACH DIRECTION	EBL	WBT				EBT		SBT
FUNCTION	APPROACH POSTED SPEED (MPH)	30	30				30		25
FUNCTION	ALL RED DISTANCE (FEET)	110	130				110		110
FUNCTION	YELLOW CLEARANCE (SEC)	4.0	4.0				4.0		4.0
FUNCTION	ALL RED (SEC)	3.0	3.5				3.0		3.6
	PEDESTRIAN MOVEMENT		P2						P8
FUNCTION	PED. CROSSING DISTANCE (FEET)		70						69
FUNCTION	PEDESTRIAN WALK (SEC)		7						7
FUNCTION	PED. CLEARANCE INTERVAL (SEC)		24						23



VIDEO DETECTOR CONNECTION CHART

MVDS	OPERATION	CONNECTED TO MOVEMENTS	DETECTION ZONE
V1	TRAFFIC OCCUPANCY, DELAY, EXTENSION	2	V2A
			V2B
V2		1 & 6	V1A
			V6A
			V6B
V3		8 & 8R	V8A
			V8B

INTERSECTION ID # 8319
MIAMI LAKES DR. & COW PEN RD.

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5/20/2024	AGK	1 S.O.P. UPDATE						

TECHNIKA CONSULTING, INC.
Pablo Bielecki, P.E. - P.E. License No. 63061
1695 NW 110th Avenue, Suite 321
Miami, Florida 33172
Phone: 786-254-0853

	NAME	DATE		NAME	DATE
DESIGNED BY	AK	5/17/24	DRAWN BY		
CHECKED BY	PB	5/20/24	CHECKED BY		

SUPERVISED BY: PABLO BIELECKI, P.E. No. 63061

MIAMI-DADE COUNTY

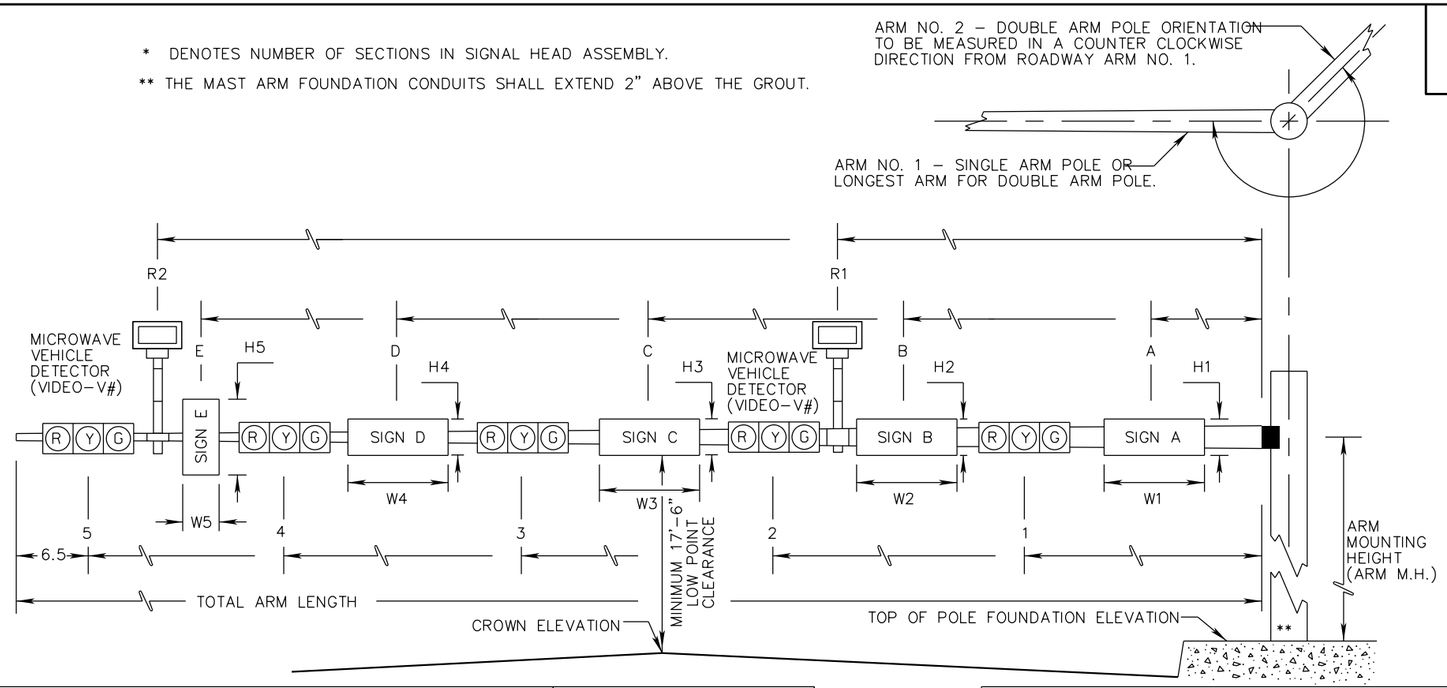
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNALIZATION PLAN

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY.

** THE MAST ARM FOUNDATION CONDUITS SHALL EXTEND 2" ABOVE THE GROUT.

SPECIAL INSTRUCTIONS					
ID NO.	PED. BUTTON		PED. SIGNALS		HANDHOLE LOCATION
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–



1. DEGREES ARE MEASURED COUNTER CLOCKWISE FROM ARM. HANDHOLE LOCATION IS 0°, UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL NOT BE MANUFACTURED WITH TERMINAL COMPARTMENT.

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND ELEV.	RDWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED SIGNAL Y/N	SIGNAL DATA: DISTANCE FROM POLE 1	*	2	*	3	*	4	*	5	*	RADAR DATA: VIDEO ID No.	DIST. FROM POLE R1	VIDEO ID No.	DIST. FROM POLE R2	TOTAL ARM LENGTH	ARM M.H.	ANGLE BET–WEEN DUAL ARMS 90/270	SIGN DATA: DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	PAINT COLOR
A1	12	11+99.18	7.85	1	7.43	H	Y	N	10.9	3	22.3	3	–	–	–	–	–	–	V1	15	–	–	30	20		5	2	6	27	3	3	–	–	–	–	–	–	–	–	–	
–	–	–	–	2	–																				–															
A2	12	12+65.68	6.75	1	7.01	H	Y	N	22.2	3	33.2	3	43.7	5	–	–	–	–	V2	27	–	–	50	20		8	2	6	38	3	3	–	–	–	–	–	–	–	–	–	
–	–	–	–	2	–																				–															
A3	12	12+28.79	6.90	1	6.13	H	Y	N	18.9	3	29.3	5	–	–	–	–	–	–	V3	24	–	–	36	20		6	2	6	12	3	3	–	–	–	–	–	–	–	–	–	
–	–	–	–	2	–																				–															

MAST ARM TABULATION

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MIAMI-DADE COUNTY

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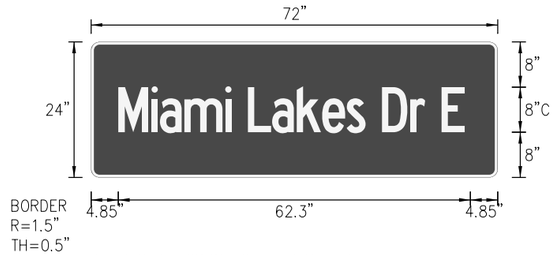
SIGNALIZATION PLAN

SIGN NAME	X			QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER					See plans
WIDTH	6'-0"	WIDTH	Ø.5"				
HEIGHT	2'-0"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES		FIXTURE SPACING		WATT	
PHOTOMETRIC CURVE			VOLTAGE		



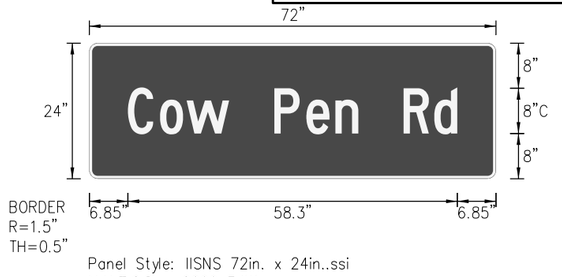
Panel Style: IISNS 72in. x 24in..ssi
M.U.T.C.D.:: 2009 Edition

SIGN NAME	Y			QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER					See plans
WIDTH	6'-0"	WIDTH	Ø.5"				
HEIGHT	2'-0"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES		FIXTURE SPACING		WATT	
PHOTOMETRIC CURVE			VOLTAGE		



Panel Style: IISNS 72in. x 24in..ssi
M.U.T.C.D.:: 2009 Edition

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

MIAMI LAKES DRIVE AT COW PEN ROAD

PROJECT NO. EDP-MT-20230006 SHEET 14 OF 27

COPY	M	i	a	m	i		L	a	k	e	s		D	r		E		L						
SPACE	4.8	10.7	12.2	16.5	23.8	24.9	27.8	32.1	36.4	40.9	45.2	48.6	51.5	56.5	59.2	62.1		62.3						
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COPY	C	o	w		P	e	n		R	d		L												
SPACE	6.8	12.5	17.2	24.8	32.8	38.4	43.6	47.6	55.6	61.1		58.3												
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GUIDE SIGN WORKSHEET

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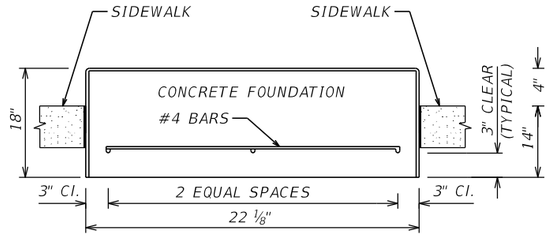
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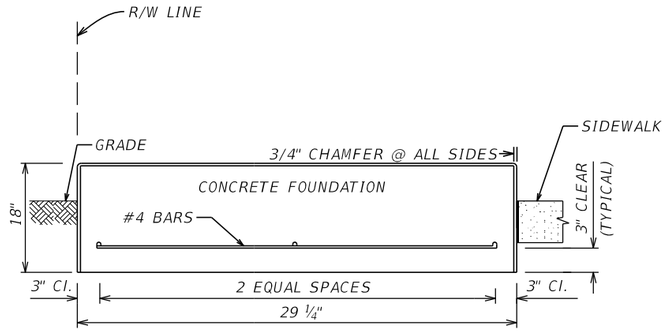
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STEPHEN P. CLARK CENTER
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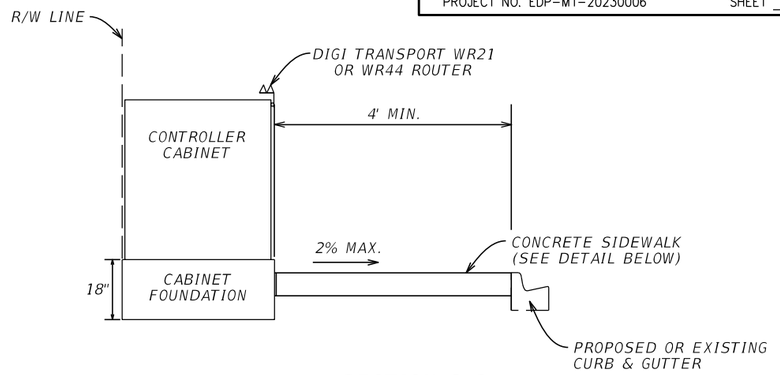
SIGNALIZATION PLAN



SECTION A-A



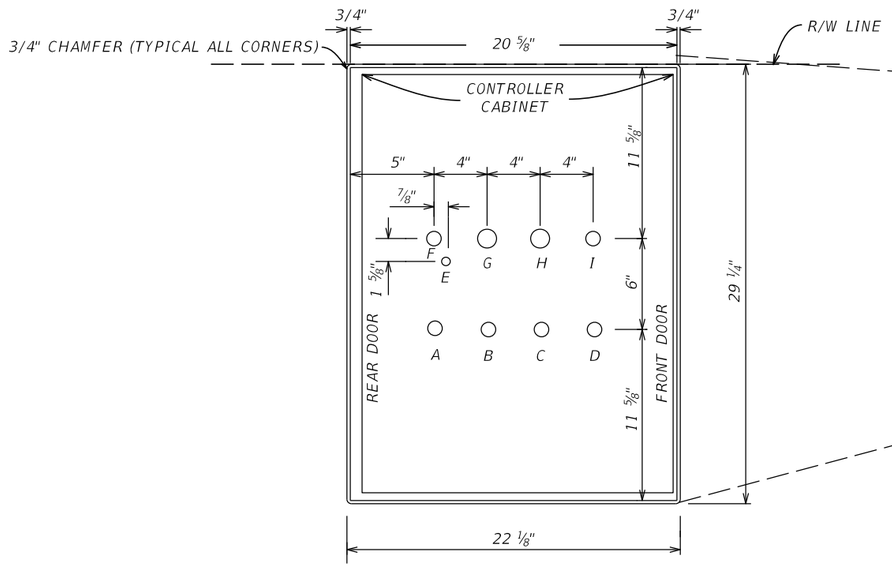
SECTION B-B



SECTION C-C

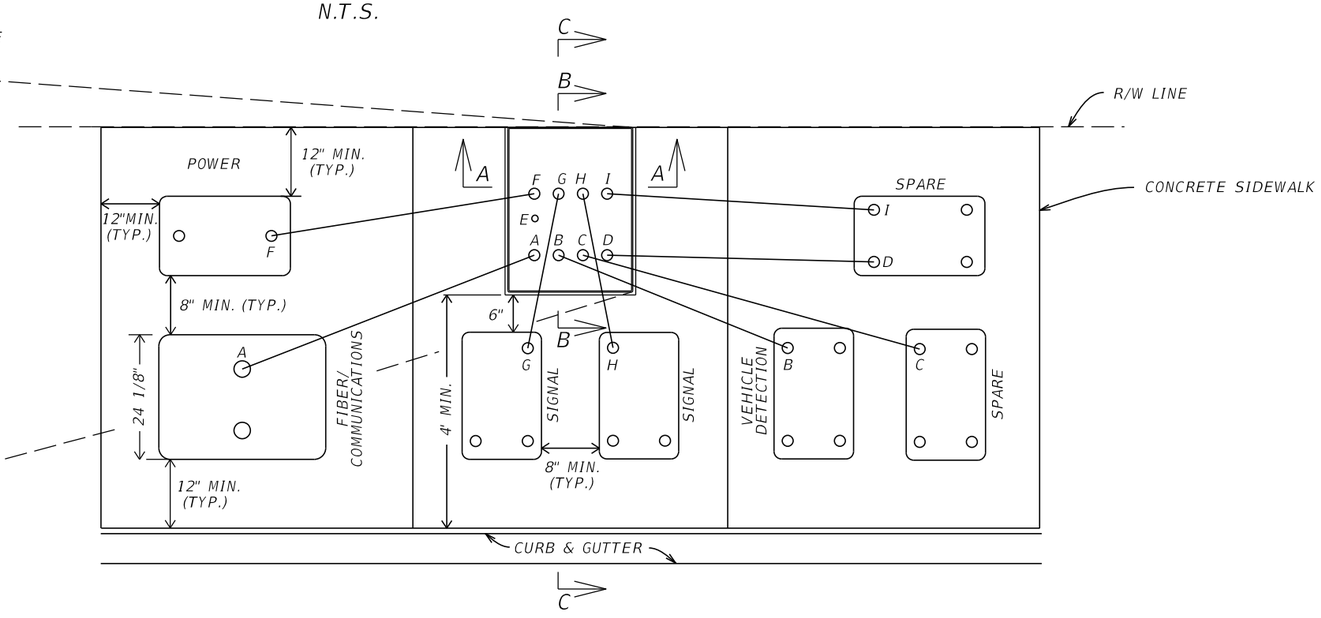
CONTROLLER CABINET CONCRETE FOUNDATION DETAILS

N.T.S.



CONTROLLER CABINET AND CONDUIT ARRANGEMENT DETAIL

N.T.S.



CONTROLLER CABINET AND PULL BOX DETAIL

N. T. S.

DESIGNATION	TYPE	FUNCTION
A	2" PVC	FIBER/COMMUNICATIONS
B	2" PVC	VEHICLE DETECTION
C	2" PVC	SPARE
D	2" PVC	SPARE
E	1" PVC	GROUND ROD
F	2" PVC	POWER
G	3" PVC	SIGNAL CABLE
H	3" PVC	SIGNAL CABLE
I	2" PVC	SPARE

NOTES:

1. NO DEVIATION FROM LAYOUT. LOCATION OF CONDUIT SHALL NOT CHANGE FROM DESIGNATED PULLBOX.
2. COST OF COMPLETE INSTALLATION OF THE DIGI MODEM SHALL BE INCLUDED UNDER PAY ITEM FOR NEW CONTROLLER CABINET COMPLETE PROPIETARY PRODUCT CERTIFICATION FORM.

CONTROLLER CABINET INSTALLATION DETAIL

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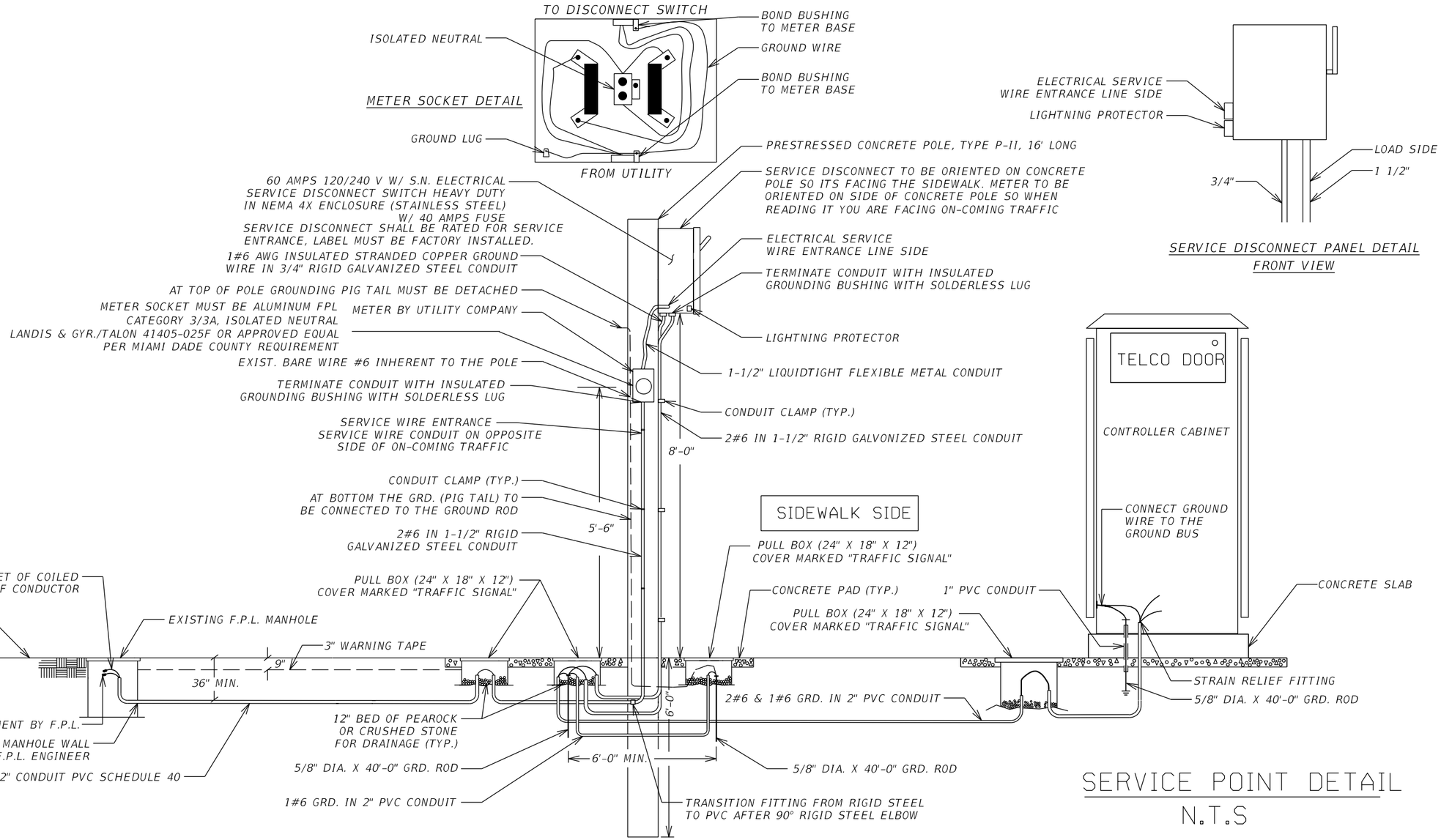
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MIAMI-DADE COUNTY

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STEPHEN P. CLARK CENTER
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SIGNALIZATION PLAN



SERVICE POINT DETAIL
N.T.S

SERVICE POINT DETAIL

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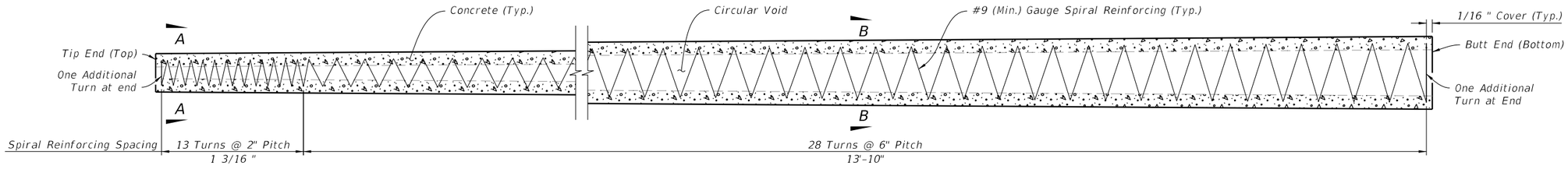
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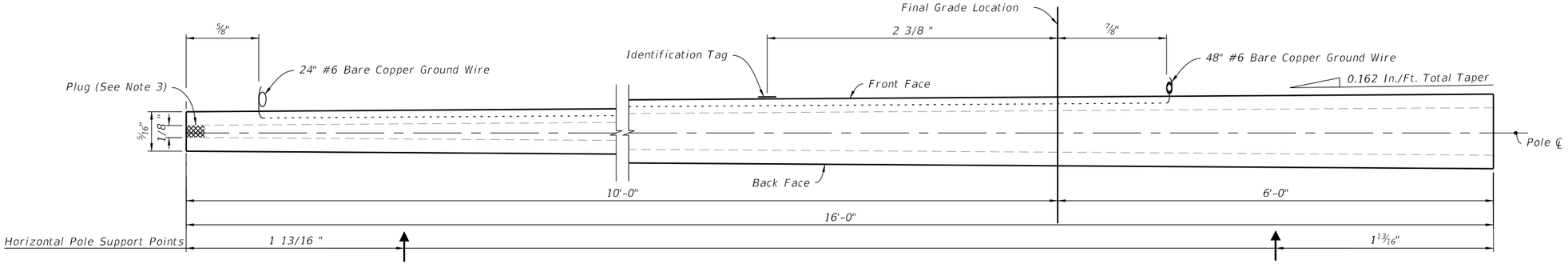
MIAMI-DADE COUNTY

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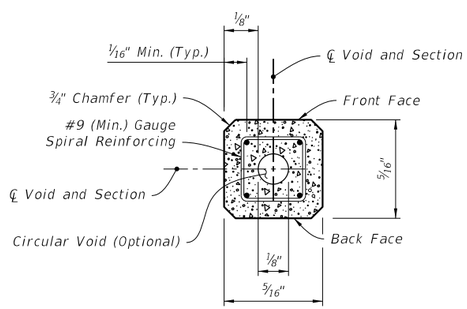
SIGNALIZATION PLAN



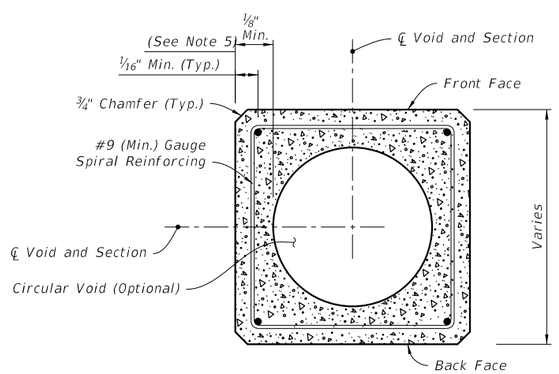
SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION A-A (Tip End)



SECTION B-B (Typical Square Section)

NOTES:

1. This pole is designed for 16' Type P-II concrete pole specified in FDOT District 6 ERC document Electrical Power/Service Detail-Exhibit 3 thru 17A (excludes Exhibits 10 and 12).
2. Materials: In accordance with General Note 3 of FDOT Standard 641-010.
3. Provide a minimum 3" concrete plug at the Tip End.
4. For final erection, tilt pole upright with single point attachment located a distance of 5 feet from the Tip End.
5. Dimension may vary from 2¼" to 3½" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
6. Strands shown are continuous from Tip End to Butt End.
7. Strands are not shown in the elevation views for clarity.
8. The pole embedment is based on 3'-6" diameter foundation with the following soil properties:
   Soil Classification: Cohesionless (Find Sand).
   Friction Angle: 30 Degree.
   Unit Weight: 50 pcf (assumed submerged).
9. Work this Plan with FDOT Standard Plans and SPI 641-010 for additional detail.
10. This Plan is considered fully detailed and no shop drawing are necessary. Submit shop drawing only for minor modifications not detailed in the Plan.

LEGEND:

- Prestressed Strand:
  0.5 in. ~ 24 kips before transfer or
  0.375 in. ~ 14 kips before transfer
  (4 strands total)

CONCRETE SERVICE POLE TYPE P-II (16 FT.)

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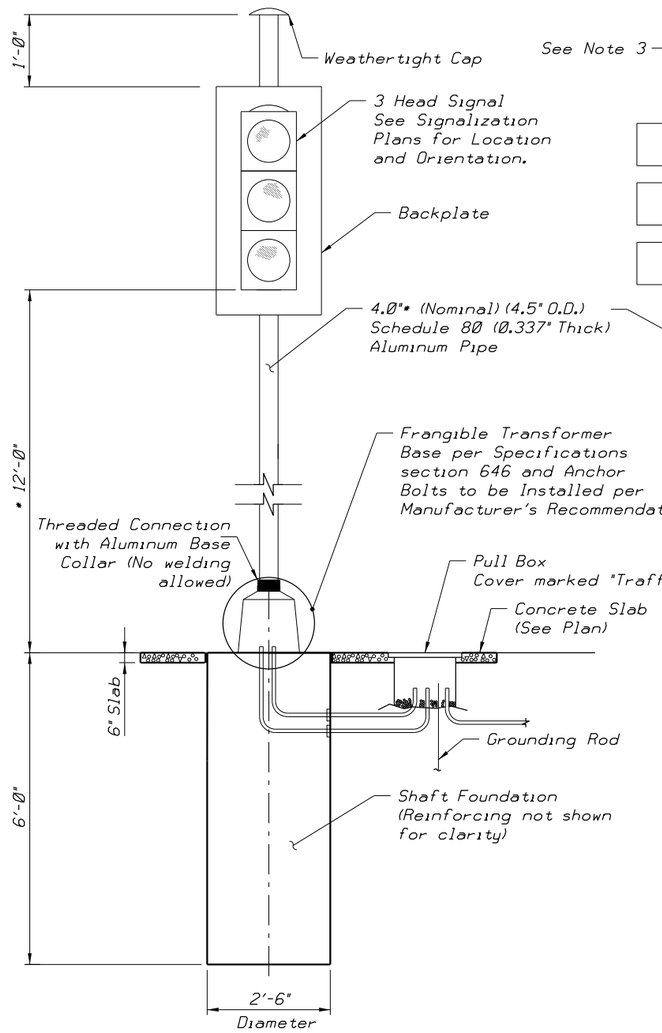
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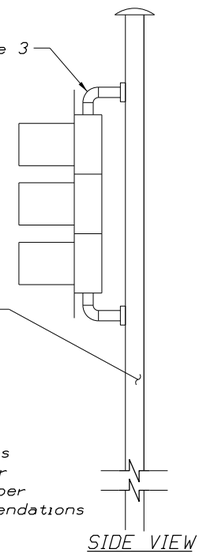
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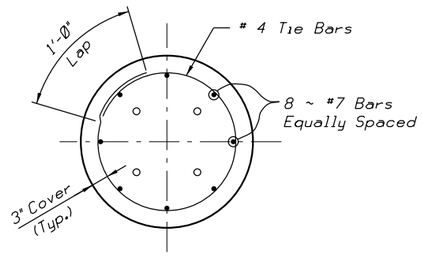
SIGNALIZATION PLAN



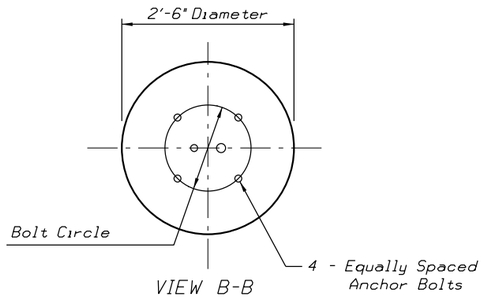
PEDESTAL TRAFFIC SIGNAL



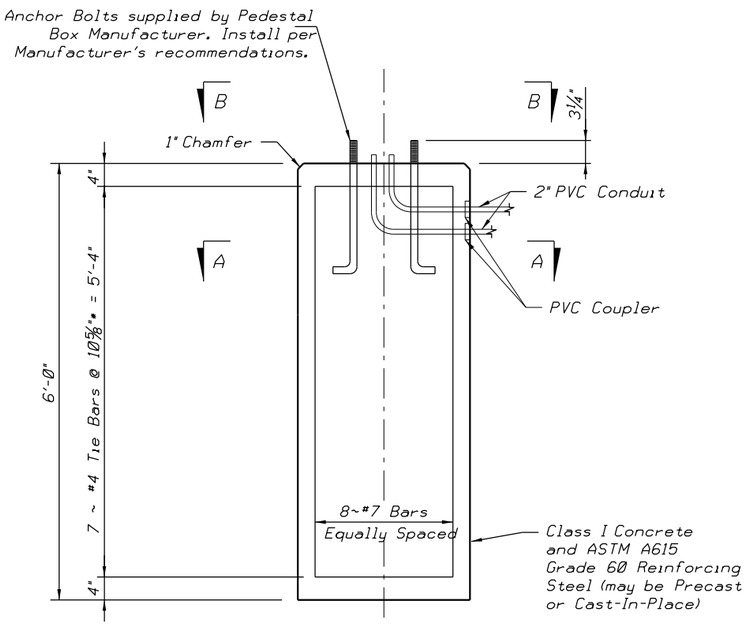
SIDE VIEW



SECTION A-A



VIEW B-B



CYLINDRICAL FOUNDATION

NOTES:

1. Design Wind Speed: 160 MPH
   Based on Volume 3 of 2017 FDOT Structures Manual (LRFD Design Methodology)
2. Foundation Design based on Standard Perforation Test (SPT).
   Soil values used:

   Classification= Cohesionless (Fine Sand)
   Friction Angle= 30 Degrees (30°)
   Unit Weight= 50 lbs. / cu. ft. (assumed saturated)

   If peat or organics are encountered during the drilled shaft construction the embedment length of the foundation shall be increased by the thickness of the peat or organic layer.
3. Attachment of the traffic signals to aluminum pole shall be a mounting bracket 1-Way upper and lower arm assembly with 10" nipples and large pole hub plates. Shop drawings for mounting bracket shall be submitted for review and approval.

• On project where sight distance may be limited, an upright height between 8 feet and 12 feet may be used as per MUTCD Section 4D.15

THREE (3) SIGNAL HEADS
SHAFT FOUNDATION

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SIGNALIZATION PLAN

STANDARD MAST ARM ASSEMBLIES DATA TABLE

Table Date 11-01-16

STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
MA-A1	A30/S-P1/S-DS/16/4.5	A30/S						P1/S	23	20	DS/16/4.5
MA-A2	A50/S-P3/S-DS/20/5.0	A50/S						P3/S	23	20	DS/20/5.0
MA-A3	A40/S-P2/S-DS/18/4.5	A40/S	36					P2/S	23	20	DS/18/4.5

NOTES [Notes Date 11-01-16]:

1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
3. Arm mounting height UB must be between 18-22 feet.
4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
6. Work with Index 649-030 and 649-031.

FOUNDATION NOTES

1. Design based on Borings taken by GEOSOL, INC. dated 05/26/23.
2. Assumptions and Values used in design:
   Soil Type Sand
   Soil Friction Angle = 29° (A1); 30° (A2 & A3).
   Soil Weight = 43 (A1); 44 (A3); 45 (A2).
   'N' Blowcount = 5 (A1) 6 (A3); 7 (A2).
   Design Water Table is 0.0 ft. below surface.

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LIGHTING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. INSTALLATION SHALL COMPLY WITH THE LATEST APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND OSHA REGULATIONS.
2. ALL MATERIALS AND INSTALLATION METHODS SHALL BE AS SPECIFIED ON THE LATEST AVAILABLE FDOT STANDARD PLANS AND SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT APPROVED PRODUCT LIST, AS SUPPRESSED BY MIAMI–DADE COUNTY STANDARDS. ANY DEVIATIONS SHALL HAVE PRIOR APPROVAL BE THE ENGINEER.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES & FACILITY ADMINISTRATOR TO ASSURE NORMAL BUSINESS DURING CONSTRUCTION, AS WELL AS PROVIDING TEMPORARY POWER AT PROJECT SITE FOR ALL TRADES.
4. POWER COMPANY SHALL PROVIDE INCOMING SERVICE AT LOCATION SPECIFIED IN ACCORDANCE WITH THE PLANS. THE DATE REQUIRED FOR INCOMING SERVICE TO BE COMPLETED MUST BE COORDINATED BY THE CONTRACTOR WITH THE POWER COMPANY AT THE PRE CONSTRUCTION MEETING.
5. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. DBA SUNSHINE 811 TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATION TO DETERMINE UNDERGROUND UTILITY LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
6. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNERS AND ARE SHOW AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. BEFORE EXCAVATING, NOTIFY THE UTILITY COMPANY OWNERS AND REQUEST THEM TO LOCATE AND STAKE THEIR THE ENGINEER.
7. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
8. NOTIFY FPL AT LEAST 48 HOURS PRIOR TO INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. FPL, AT IT'S OPTION, SHALL ASSIST THE MIAMI–DADE CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY, HIGH VOLTAGE COMPONENTS.
9. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE LIGHTING POLE FOUNDATIONS OR CONDUIT RUN, AS DETERMINED BY THE ENGINEER, HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
10. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. DO NOT OPEN ANY AREA THAT CAN NOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION.
11. ENDS OF CONDUITS SHALL BE SEALED WITH POLYURETHANE FOAM SEAL AFTER WIRING IS COMPLETE. FOAM SEAL SHALL NOT BE USED AS A MEANS TO PROTECT CONDUCTORS FROM ABRASION IN RACEWAYS. GALVANIZED RIGID METAL AND PVC CONDUITS SHALL HAVE PROPER FITTINGS TO PROTECT CONDUCTORS FROM ABRASION.
12. ATTACH LIGHTNING ARRESTOR TO THE WALL OF PULL BOX BY A SELF–TAPPING SCREW OR BY A MANSORY SCREW. SCREWS SHOULD BE FIRM BUT NOT SNUG AGAINST THE SUPPORTING TABS.
13. GROUND RODS ARE TO BE LOCATED AS SHOWN IN PLANS FOR POLE OR ELECTRICAL LOAD CENTER. THE MIAMI–DADE PUBLIC WORKS AND WASTE MANAGEMENT, TRAFFIC SIGNS DIVISION STANDARDS REQUIRES TWO 5/8"X20' COPPER CLAD STEEL GROUNDING ELECTRODES AT EACH SERVICE POINT. THEY MUST BE SPACED A MINIMUM OF SIX FEET FROM EACH OTHER WHEN INSTALLED AS AN ARRAY. WHEN THE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED IN A METAL RACEWAY, BOTH ENDS OF THE RACEWAYS AND ALL INTERVENING RACEWAYS AND METALLIC ENCLOSURES CONTAINING THE GROUNDING ELECTRODE CONDUCTOR MUST BE BONDED TO THE GROUNDING ELECTRODE CONDUCTOR. GROUND RODS SHALL HAVE A RESISTANCE TO GROUND NOT TO EXCEED 25 OHMS. WHERE THE RESISTANCE IS NOT AS LOW AS 25 OHMS, TWO OR MORE GROUND RODS CONNECTED IN PARALLEL SHALL BE USED.
14. ONLY LINE CONDUCTORS WILL BE PERMITTED IN SERVICE PULL BOX ADJACENT TO FPL CONNECTION POINT. NO GROUND RODS OR ANY OTHER ITEMS OR DEVICES SHALL BE ALLOWED.
15. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED AT A GRADE THAT IS FLUSH WITH THE ADJACENT AND SURROUNDING SIDEWALK, UNLESS OTHERWISE NOTED ON PLANS.
16. THE POLE FOUNDATION CONDUITS SHALL EXTEND FROM 1" TO 2" INSIDE THE POLE BASE.
17. RACEWAYS: RACEWAYS CONTAINING NO. 6 AWG OR LARGER CONDUCTORS MUST BE PROTECTED BY AN INSULATED FITTING, UNLESS THE CONDUCTORS ARE SEPARATED FROM THE FITTING OR RACEWAY BY SUBSTANTIAL INSULATING MATERIAL THAT IS SECURELY FASTENED IN PLACE. FOR CIRCUITS MAINTAINED BY MIAMI DADE COUNTY, INSTALL BUSHING BELLS ON CONDUITS THAT ENTER PULL BOXES AND BARRIER WALL JUNCTION BOXES.
18. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE ACCOMPLISHED WITH THE USE OF GEL CAPS. NO SPLICES ALLOWED FOR INTERMEDIATE PULL BOXES. INTERMEDIATE PULL BOXES SHALL BE USED AS PASS–THROUGH ONLY.
19. ADJOINING EXISTING POLE TYING INTO THE NEW CIRCUIT SHOULD BE RE–CONDITIONED OR BROUGHT UP TO THE CURRENT SPECIFICATIONS UTILIZING SOW CORD AND HEBS AND HEBR CONNECTORS AS NECESSARY.
20. THE LIGHTING MAINTAINING AGENCY FOR THIS AREA IS TOWN OF MIAMI LAKES. CONTRACTOR MUST COORDINATE WITH MAINTAINING AGENCY FOR THE DELIVERY OF ALL SALVAGEABLE LIGHTING EQUIPMENT.
21. LIGHTING EQUIPMENT CONSIDERED SALVAGEABLE ARE SALVAGEABLE ALUMINUM POLES, LUMINAIRES, AND POLE CABLE DISTRIBUTION SYSTEM.
22. STREET LIGHTS MUST COMPLY WITH OSHA REQUIRED MINIMUM CLEARANCE SEPARATION FROM FPL LINES AND COMMUNICATION LINES.
23. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN WORKING THE VICINITY OF EXISTING AND PROPOSED UNDERGROUND AND OVERHEAD UTILITIES.
24. CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO SIDE STREETS, PRIVATE, AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.
25. CONTRACTOR MUST CONTACT/COORDINATE AS REQUIRED WITH MAINTAINING AGENCY AND THE APPLICABLE COUNTY OFFICIALS AND INSPECTORS PRIOR TO CONSTRUCTION.
26. CONTRACTOR MUST MINIMIZE IMPACTS TO EXISTING CONDITIONS & TRENCHING ACROSS STREETS BY COORDINATING THE LIGHT PLANS WITH THE SIGNALIZATION PLANS. INTERCONNECT CONDUIT/WIRING AS DEPICTED ON THESE DRAWINGS.
27. ALL GROUND ROD CONNECTIONS SHALL BE EXOTHERMICALLY WELDED FOLLOWING THE MANUFACTURER'S GUIDELINES.
28. POLES SHALL HAVE A FRANGIBLE TRANSFORMER BASE.
29. USE PVC SCHEDULE 40 CONDUIT THROUGHOUT THE ENTIRE UNDERGROUND SYSTEM.
30. PULL BOXES, JUNCTION BOXES, AND ALL ELECTRICAL WORK MUST CONFORM TO N.E.C. (LATEST REQUIREMENTS), THE NATIONAL ELECTRICAL SAFETY CODE AND MIAMI–DADE COUNTY STANDARDS
.
31. IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (N.E.C.) OR WITH THE MIAMI–DADE COUNTY STANDARDS, THE CONTRACTOR MUST IDENTIFY ALL CIRCUITS AND EQUIPMENT INCLUDING THE PROPOSED LIGHT POLE ASSEMBLIES.
32. CONTRACTOR MUST CONTACT UTILITY COMPANIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MUST NOTIFY ENGINEER AND MIAMI–DADE COUNTY IF FIELD CONDITIONS DIFFER FROM CONDITIONS INDICATED ON THESE DRAWINGS
33. THE LUMINAIRE MANUFACTURER SHALL PLACE A PERMANENT TAG ON THE LUMINAIRE HOUSING ON WHICH IS IMPRINTED THE FOLLOWING INFORMATION: WATTAGE, BALLAST TYPE, LAMP SHOWN ON DESIGN PLANS, LAMP SETTING (POSITION IN LUMINAIRE) I.E.S. LIGHT DISTRIBUTION WITH THIS LAMP IN THE POSITION SPECIFIED, INPUT VOLTAGE AND POWER FACTOR, LUMINAIRE PHOTOMETRIC SUBMITTALS REQUIRED.
34. THE WIRES AT THE POLE, HANDHOLE, AND PULL BOXES SHALL BE LOOPED AS INDICATED IN THE PLAN DETAIL WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS TO THE OUTSIDE, TO MAKE THEM ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.
35. POLES, BRACKET ARMS, AND TRANSFORMER BASES SHALL BE ALUMINUM AND DESIGNED IN ACCORDANCE WITH LOCAL DESIGN CRITERIA USING THE APPLICABLE EQUATIONS FOUND IN THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR HIGHWAY, SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS," CURRENT EDITION.
36. ALL MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNDERWRITERS LABORATORY APPROVED.
37. CONTRACTOR MUST MAINTAIN THE EXISTING LIGHTING SYSTEM IN OPERATION OR SUPPLY A TEMPORARY ONE UNTIL THE NEW LIGHTING SYSTEM CAN BE ACTIVATED. IF THE EXISTING LIGHTING SYSTEM IS OWNED BY F.P.&L, SEE FDOT SPECIFICATION FOR ROADWAY LIGHTING SPECIAL PROVISIONS, SECTION 715.
38. SIDEWALK SLABS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL AND COLORED WHEN NECESSARY TO MATCH THE EXISTING SIDEWALK. SPECIAL SIDEWALK FEATURES AND TEXTURES SHALL BE REPLACED IN KIND.
39. STATIONING MAY BE ADJUSTED AS DIRECTED TO AVOID UTILITY OR STRUCTURAL CONFLICTS NOT INDICATED IN THE PLANS.
40. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND STRUCTURAL CONFLICTS IN COOPERATION WITH THE UTILITY COMPANY(S).
41. ALL EXPOSED CONDUIT OR SURFACE MOUNTED CONDUIT SHALL BE GALVANIZED STEEL AND GROUNDED.
42. INSTALLATIONS OF NEW PULL BOXES SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR. WHEN NEW PULL BOX IS REPLACING EXISTING PULL BOX, THE CONTRACTOR SHALL ADJUST CONDUITS AND CABLES TO FIT THE NEW PULL BOX ELEVATION.
43. NEUTRAL WIRES SHALL HAVE WHITE INSULATION. DO NOT USE WHITE OR GREEN INSULATED WIRES FOR UNGROUNDED CONDUCTORS.
44. PRIOR TO ANY PROCUREMENT ORDER THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL SHOWING EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIALS PROPOSED FOR THE PROJECT AND SHALL INCLUDE, BUT NOT LIMITED TO:
    A: LUMINAIRES, POLES AND BASES.
    B: CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
    C: FUSES, FUSE HOLDERS, SURGE PROTECTORS AND POLE CABLE DISTRIBUTION SYSTEMS.
    D: SAFETY SWITCHES, PANELS, CIRCUIT BREAKERS, AND OTHER MAJOR SERVICE POINT
    E: COMPONENTS.
45. POLYMER CONCRETE PULL BOX REINFORCED BY HEAVY–WEAVE FIBERGLASS SHALL HAVE EXTERIOR DIMENSIONS OF 25" X 15–1/2" X 12". COVERS SHALL BE OF HEAVY–DUTY POLYMER COMPOSITE AND LABELED WITH "STREET LIGHT".
46. PULLING INSTRUCTIONS: ONLY HAND PULLING WILL BE ALLOWED. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.
47. ALL POLES SHALL BE PLACED 2' MIN. LATERAL OFFSET FROM THE PATH TRAVEL LANE.
48. ALL PRODUCT TESTING AND LISTING FOR THE ELECTRICAL EQUIPMENT, WIRING DEVICES, LUMINAIRES SHALL BE PERFORMED BY A RECOGNIZED QUALIFIED ELECTRICAL TESTING LABORATORY SUCH AS UL.
49. ALL WORK PERFORMED SHALL MEET THE LATEST AVAILABLE FDOT STANDARD PLANS AND FDOT STANDARD SPECIFICATIONS.
50. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY PROJECT MANAGER AS–BUILT PLANS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA . CONTRACTOR SAHLL PROVIDE GPS FILE FOR ALL LIGHT POLES AND LOAD CENTER TO THE COUNTY PROJECT MANAGER. IN ADDITION TO THE GPS COORDINATES, ADDITIONAL ATTRIBUTES FOR THE PROJECT ARE TO BE SUBMITTED. THE CONTRACTOR SHALL COORDINATE WITH COUNTY STAFF FOR THE NECCESARY INFORMATION TO BE INPUT INTO THE COUNTY ARCGIS DATA.
51. IMPACTED SIDEWALK(S) SHALL BE REPLACED TO THE NEAREST JOIN.
52. ALL LIGHTING STRUCTURES SHALL BE INSTALLED AT A MINIMUN DISTANCE OF 10 FEET FROM EXISTING DISTRIBUTION AND OVERHEAD ELECTRICAL POWER LINES.
53. CONTRACTOR SHALL REFER TO CIVIL DRAWINGS FOR TREE TRIMMING REQUIREMENTS AND LOCATIONS.
54. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF MIAMI LAKES FOR THE REMOVAL OF LIGHT POLES IDENTIFIED ON PLANS TO ENSURE INTERSECTION ILLUMINATION IS MAINTAINTED DURING CONSTRUCTION. CONTACT TOWN OF MIAMI LAKES DIRECTOR OF PUBLIC WORKS, OMAR SANTOS, AT SANTOSO@MIAMILAKES–FL.GOV (CC: PUBLICWORKS@MIAMILAKES–FL.GOV) OR 305.364.6100 (EXT: 1182) FOR PROJECT COORDINATION PURPOSES.

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GENERAL NOTES

THE OFFICIAL RECORD OF THESE SHEET IS THE ELECTRONIC SIGNED AND SEALED UNDER RULE 61G15–23.004, F.A.C.

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREEN DADE, INC.
Edmundo Rodriguez, P.E. - P.E. License No. 91400
7220 SW 12TH St.
Miami, Florida 33144
Phone: 786-487-4596

	NAME	DATE		NAME	DATE
DESIGNED BY	AF	6/28/24	DRAWN BY	AF	6/28/24
CHECKED BY	ER	6/28/24	CHECKED BY	ER	6/28/24

SUPERVISED BY:

MIAMI–DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

LIGHTING PLANS

SUMMARY OF QUANTITES

PAY ITEM NO.	ITEM	UNIT	QUANTITY	
			TOTAL	ADDITIONAL*
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	677	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	12	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1	
715-1-12	LIGHTING - CONDUCTORS (F & I) (NO. 8 TO NO. 6)	LF	2003	
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	546	
715-7-11	LOAD CENTER (INCUDES SWITCH, WEATHERHEAD & WIRE AT SERVICE POINT)	EA	1	
715-500-1A	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL KIT) (FURNISH AND INSTALL)	EA	7	
715-516-115	LIGHT POLE COMPLETE, SPECIAL DESIGN (FURNISH & INSTALL, POLE TOP MOUNT, ALUMINUM AND 15 FEET MOUNTING HEIGHT)	EA	7	2**

NOTES

* ADDITIONAL QUANTITIES ARE CONTINGENT, TO BE USED AS DIRECTED BY THE ENGINEER AND HAVE BEEN INCLUDED IN THE TOTAL QUANTITY AMOUNT SHOWN ON THE SUMMARY OF PAY ITEMS.

** TOTAL QUANTITY INCLUDES 2 ADDITIONAL LIGHT POLES (20% OF TOTAL LIGHT POLE ASSEMBLIES). ADDITIONAL LIGHT POLES SHALL BE DELIVERED AT THE CONTRACTOR?S EXPENSE TO THE TSS WAREHOUSE AND YARD.

630-2-12 INCLUDES OPEN TRENCH INSTALLATION UNDER PAVEMENT.

715-500-1A REFERS TO MG SQUARED POLE CABLE DISTRIBUTION SYSTEM.

715-516-115 INCLUDES COST OF CALCULATIONS, SUBMITTAL, FURNISHING AND INSTALLATION OF SHAFT OR SPREAD FOUNDATION, AS NEEDED.

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SUMMARY OF QUANTITIES

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MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
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LIGHTING PLANS

LIGHTING DATA TABLE

POLE NO.	CIRCUIT	STATION	POLE OFFSET / SET BACK	MOUNTING HEIGHT	ARM CONFIGURATION	ARM LENGHT	LUMINAIRE WATTAGE	FOUNDATION *	PAY ITEM
1	A-4	11+49.69	23.84 RT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115
2	A-2	11+88.21	62.86 LT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115
3	A-2	12+10.68	92.08 LT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115
4	A-4	12+36.65	26.89 RT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115
5	A-3	12+69.25	82.29 LT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115
6	A-3	13+13.63	55.80 LT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115
7	A-4	13+26.88	26.24 RT	14'	POLE TOP MOUNT	N/A	99	STANDARD/SHAFT	715-516-115

* IF AN UNFORSEEN UNDERGROUND CONFLICT ARISES DURING UTILITY LOCATES OR DUE SITE CONDITIONS, THE CONTRACTOR SHALL PERFORM HAND/SOFT DIGGING FOR THE FIRST 4 FEET AHEAD OF PROCURING SHAFT FOUNDATION TO VERIFY THERE IS NO CONFLICT WITH UNIDENTIFIED EXISTING UTILITIES, IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL EITHER ADJUST THE LIGHT POLE FOUNDATION BUT NO MORE THAN 5 FEET FROM PROPOSED LOCATION OR PROVIDE SPREAD FOOTING. THE ASSOCIATED COST FOR THIS WORK SHALL BE INCLUDED IN LIGHT POLE INSTALLATION BID ITEM.

LEGEND

SYMBOLS	DESCRIPTION
●	PROPOSED ROUND TAPERED ALUMINUM LIGHT POLE COMPLETE WITH LED LUMINAIRE DESIGNED FOR 12467 LUMENS, TYPE III DISTRIBUTION, 3000K CCT AND WIRED FOR 240/120 VOLT OPERATION. NO PHOTOCELL REQUIRED. PROVIDE UBICQUIA UBICELL LIGHTING CONTROL NODE. BASIS OF DESIGN IS GVD3 P50 30K XXXX GL3 FC.IES.
	EXISTING LIGHT POLE TO BE REMOVED BY OTHERS (TOWN OF MIAMI LAKES).
	EXISTING LIGHT POLE TO REMAIN.
	2" SCHEDULE 40 PVC CONDUIT (UNDERPAVEMENT, DIRECTIONAL BORE, OR OPEN TRENCH) WITH THREE RHW-2/XLP CONDUCTORS INSIDE THE CONDUIT: ONE WITH RED INSULATION, ONE WITH BLACK INSULATION, AND ONE GROUND WITH GREEN INSULATION INSIDE THE CONDUIT. NUMBER AND SIZE OF CONDUCTORS AS SHOWN ON PLAN SHEETS. GROUND SHALL BE #6 AWG THWN UNLESS OTHERWISE NOTED ON PLANS.
	PROPOSED LIGHTING LOAD CENTER.
	PROPOSED LIGHTING PULL BOX.

LIGHTING DESIGN CRITERIA

SIGNALIZED INTERSECTION LIGHTING				
ILLUMINATION LEVEL AVERAGE INITIAL FOOT CANDLE		ILLUMINATION UNIFORMITY RATIOS		VEILING LUMINANCE RATIO
		AVG./MIN.	MAX./MIN.	Lv (max)/Lavg
HORIZONTAL (H.F.C.)	3.0 STD. 1.5 MIN.	4:1 OR LESS	10:1 OR LESS	N.A.
VERTICAL (V.F.C.)	1.5 STD. 1.2 MIN	N.A.	N.A.	N.A.
LIGHT SOURCE = LIGHT-EMITTING DIODE				
WIND SPEED = 160 MPH				

LIGHTING DATA TABLE, LEGEND AND LIGHTING CRITERIA

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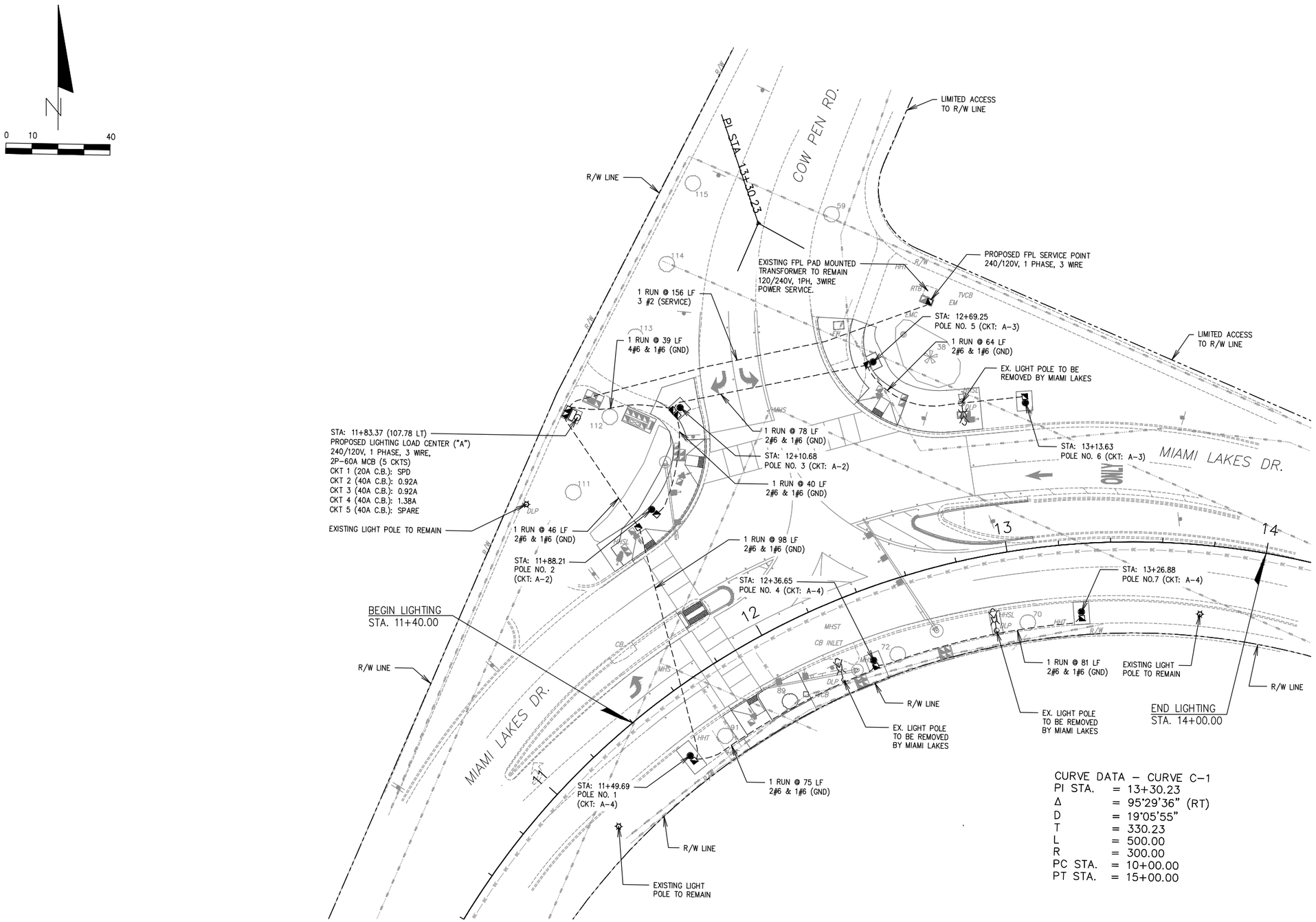
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MIAMI-DADE COUNTY

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LIGHTING PLANS

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CURVE DATA – CURVE C-1

PI STA.	= 13+30.23
Δ	= 95°29'36" (RT)
D	= 19°05'55"
T	= 330.23
L	= 500.00
R	= 300.00
PC STA.	= 10+00.00
PT STA.	= 15+00.00

PLAN SHEET

REVISIONS								
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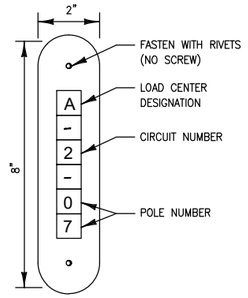
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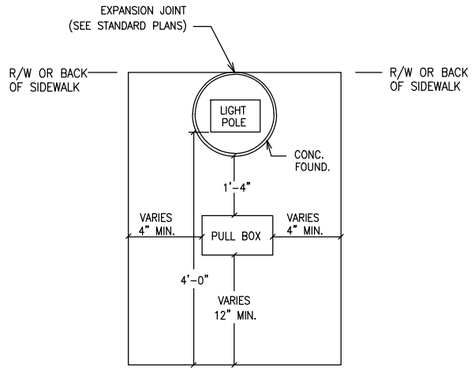
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LIGHTING PLANS



POLE IDENTIFICATION TAG DETAIL



LIGHT POLE INSTALLATION DETAIL ON SIDEWALK

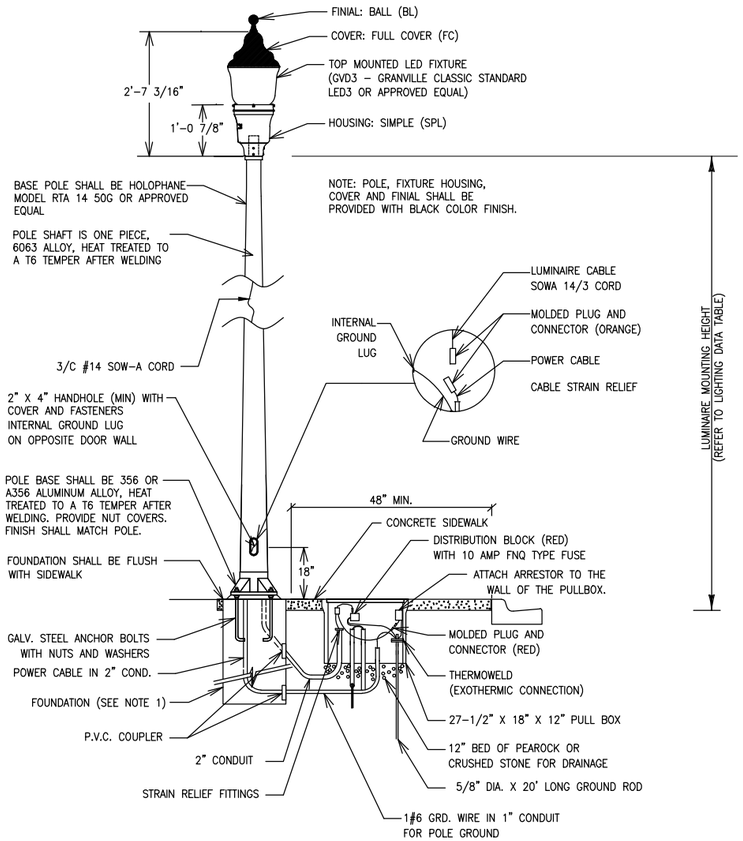
(N.T.S)

SHOP DRAWINGS

PROVIDE SIGNED AND SEALED STRUCTURAL PLANS AND CALCULATIONS FOR THE ENTIRE DECORATIVE LIGHTING SYSTEM AND THE CONNECTIONS DESIGN (LUMINAIRE-TO-ARM, ARM-TO-UPRIGHT, AND UPRIGHT-TO-FOUNDATION CONNECTIONS). PROVIDE PLANS AND CALCULATIONS SIGNED AND SEALED BY A FLORIDA-LICENSED PROFESSIONAL ENGINEER WHICH DEMONSTRATE THAT THE DECORATIVE LIGHTING SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST VERSION OF AASHTO LRFDLTS AS MODIFIED BY THE PROVISIONS OF THE FDOT STRUCTURES MANUAL VOLUME 3.

NOTES

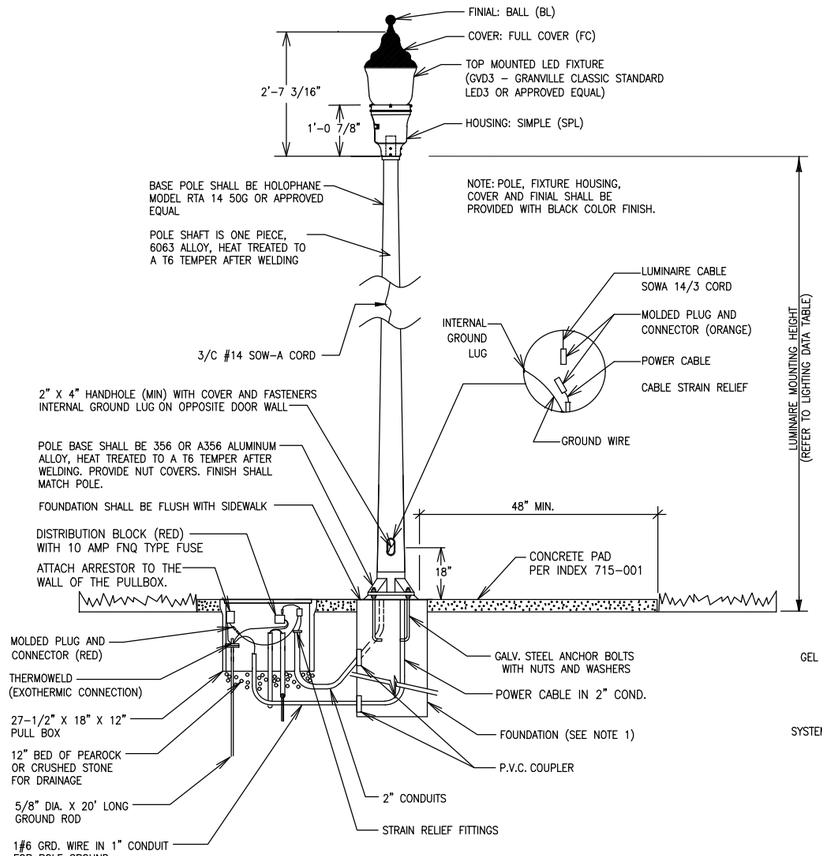
1. FOR LIGHT POLE FOUNDATION OPTION ANTICIPATED SEE LIGHTING DATA TABLE SHEET. REFER TO FDOT STANDARD PLANS, INDEX 715-002. SEE SHEET 4 OF 9 FOR SHAFT FOUNDATION OPTION DETAILS. WHEN IN CONFLICT WITH UNDERGROUND UTILITY CONTRACTOR SHALL PROVIDE SPREAD FOUNDATION. REFER TO SHEET 5 OF 9 FOR SPREAD FOOTING FOUNDATION OPTION DETAILS. ONLY ONE (1) 2" PVC CONDUIT IS ALLOWED.
2. MINIMUM WIND LOAD CRITERIA = 160 MPH



POLE DETAIL FOR SIDEWALK INSTALLATION

(N.T.S.)

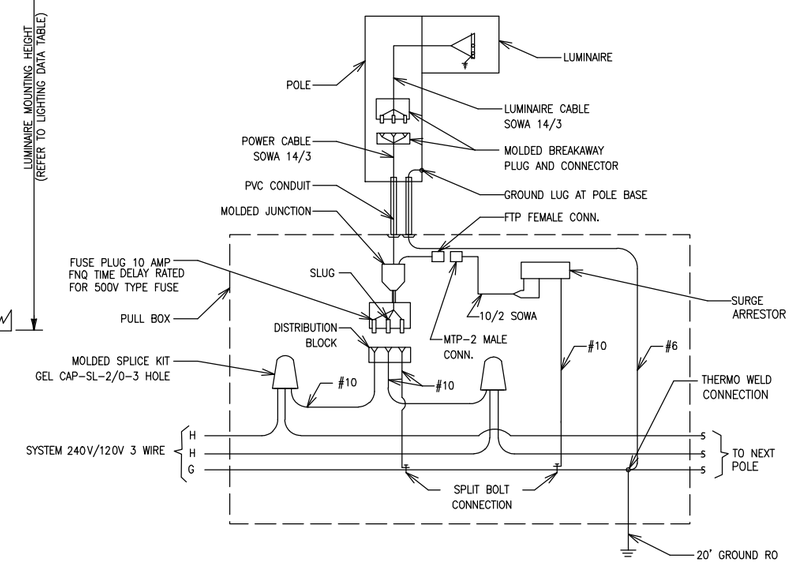
BID ITEM 715-516-115



POLE DETAIL FOR INSTALLATION ON GRASS/SOD AREAS

(N.T.S.)

BID ITEM 715-516-115



WIRING DIAGRAM FOR MG SQUARED (POLE CABLE DISTRIBUTION SYSTEM)

BID ITEM NO. 715-500-1C

(N.T.S.)

DECORATIVE TOP MOUNTED POLE DETAIL

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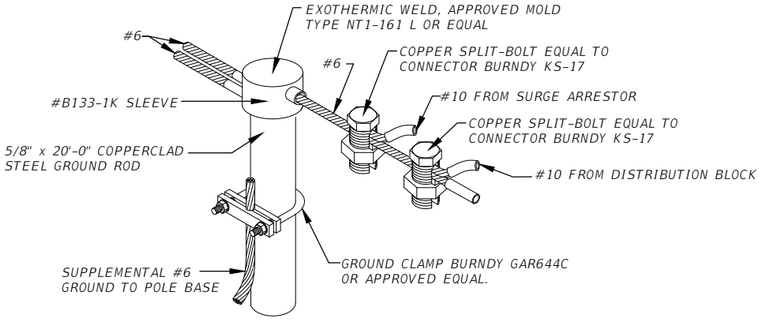
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CHECKED BY	ER	6/28/24	CHECKED BY	ER	6/28/24
SUPERVISED BY:					

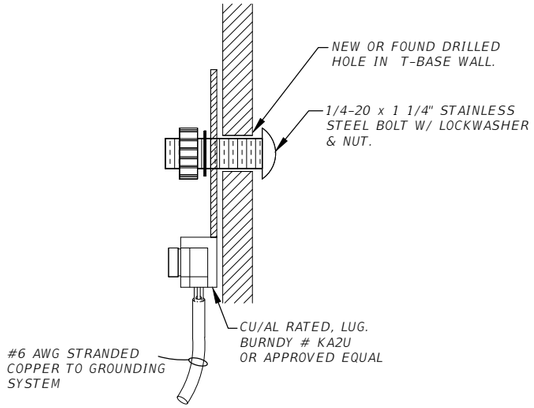
MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

LIGHTING PLANS



CABLE TO GROUND ROD DETAIL
(COPPER WIRE FOR GROUNDING)
N.T.S.



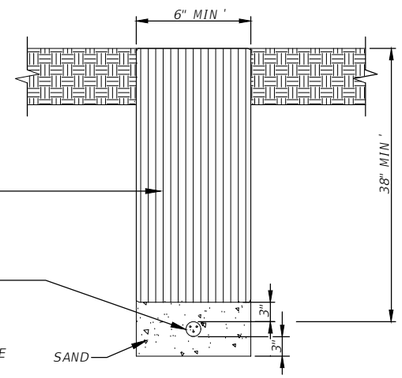
GROUND LUG DETAIL
(COPPER WIRE FOR GROUNDING)
N.T.S.

PULL BOX SPECIFICATION.

1. ALL STREET LIGHT PULLBOXES SHALL HAVE AN OPEN-BOTTOM, QUAZITE POLYMER CONCRETE DESIGN OR PRECAST CONCRETE DESIGN CONSTRUCTED OF CLASS I CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY- EIGHT (28) DAYS. POLYMER CONCRETE PULLBOX SHALL BE QUAZITE PRODUCT NO. PG1324BA12 OR APPROVED EQUIVALENT. CONCRETE PULLBOX SHALL BE BROOKS 38 SERIES OR APPROVED EQUIVALENT. IN EITHER CASE, BOTH PULLBOXES SHALL BE CONSTRUCTED PER ABOVE SPECIFIED MANUFACTURERS SIZE, MATERIALS AND PERFORMANCE SPECIFICATIONS. THEREFORE, BELOW SPECIFIED PULLBOX COVER SHALL BE FULLY INTER- CHANGEABLE WITH EITHER PULLBOX. ALL PULLBOX COVERS FURNISHED AND INSTALLED SHALL BE POLYMER CONCRETE QUAZITE PRODUCT NO. PG1324HA00 OR APPROVED EQUIVALENT. NO OTHER DESIGN, SIZE, MODIFICATION OR MATERIALS SHALL BE ACCEPTABLE. PULLBOX COVERS SHALL BE MARKED "STREET LIGHTING" OR "ELECTRIC/ MIAMI-DADE HD" .

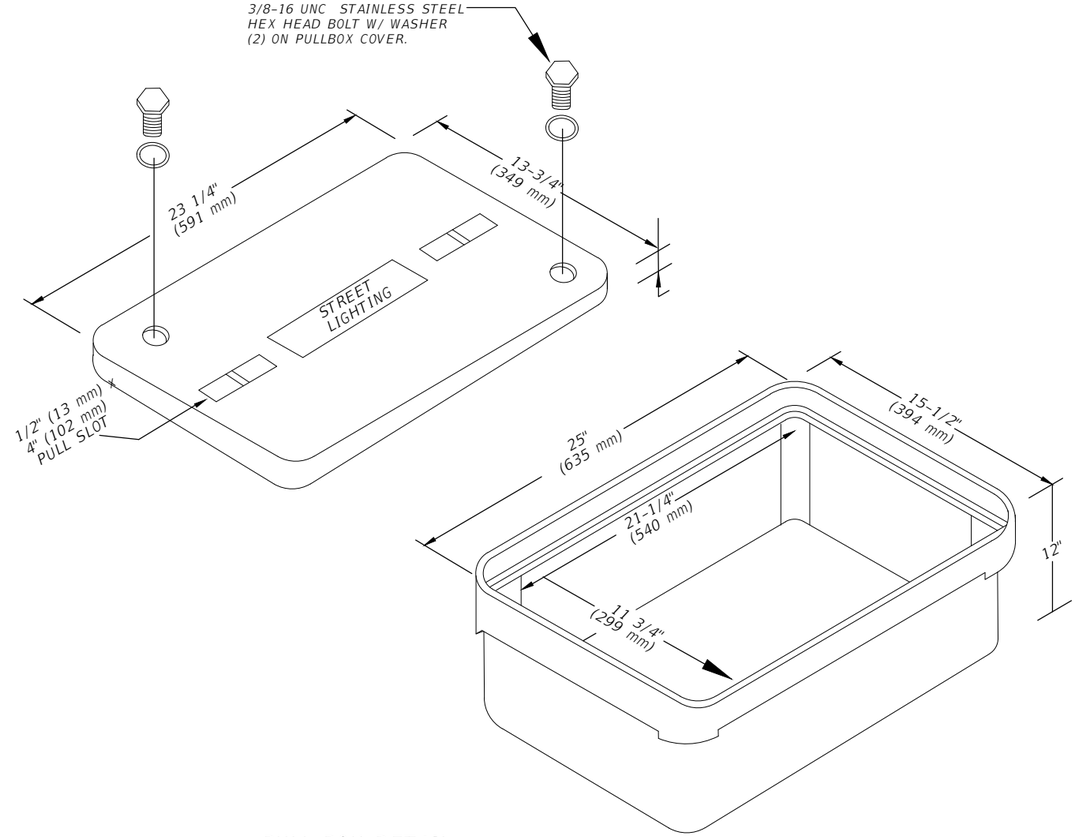
2. IN SITUATIONS WHERE PULLBOX IS LOCATED OUTSIDE OF SIDEWALK, i.e. SWALE AREA. THE PULLBOX IS TO HAVE A 6'x5' MIN CONCRETE APRON (6" THICK) PLACED AROUND IT. COST OF CONCRETE APRON IS TO BE INCLUDED IN THE PULLBOX INSTALLATION COST.

TRENCH DETAIL (ROAD)
N.T.S.



TRENCH DETAIL (SWALE)
N.T.S.

* IF IN THE OPINION OF THE ENGINEER, APPRECIABLE SETTLEMENT OCCURS DURING THE ONE YEAR GUARANTEE PERIOD, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE AREA OF CUT TO ADJACENT ROADWAY ELEVATION. SEE "TRAFFIC CONTROL EQUIPMENT SPECIFICATIONS AND STANDARDS FOR THE MTCSMDC".



PULL BOX DETAIL
N.T.S.

MISCELLANEOUS DETAILS

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

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GREEN DADE, INC.
Edmundo Rodriguez, P.E. - P.E. License No. 91400
7220 SW 12TH St.
Miami, Florida 33144
Phone: 786-487-4596

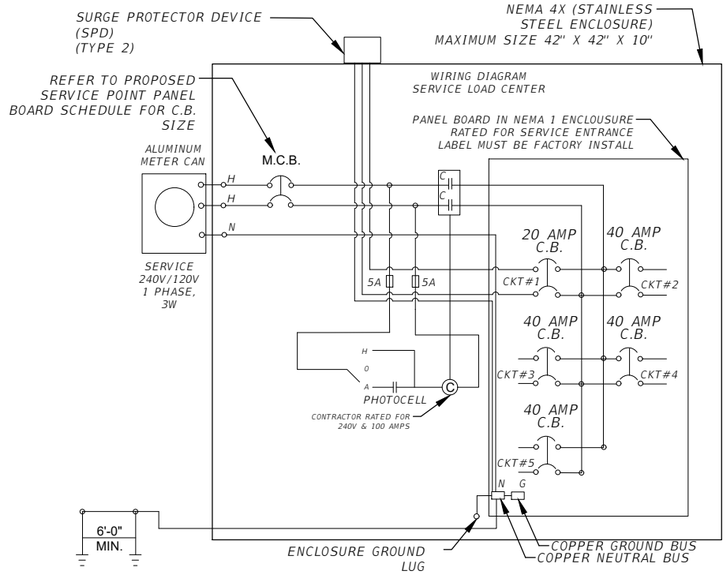
	NAME	DATE		NAME	DATE
DESIGNED BY	AF	6/19/24	DRAWN BY	MV	6/19/24
CHECKED BY	ER	6/19/24	CHECKED BY	ER	6/19/24
SUPERVISED BY:					

MIAMI-DADE COUNTY

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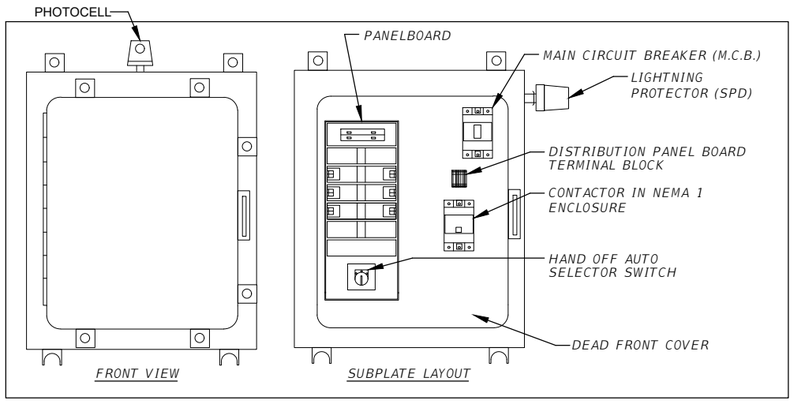
LIGHTING PLANS

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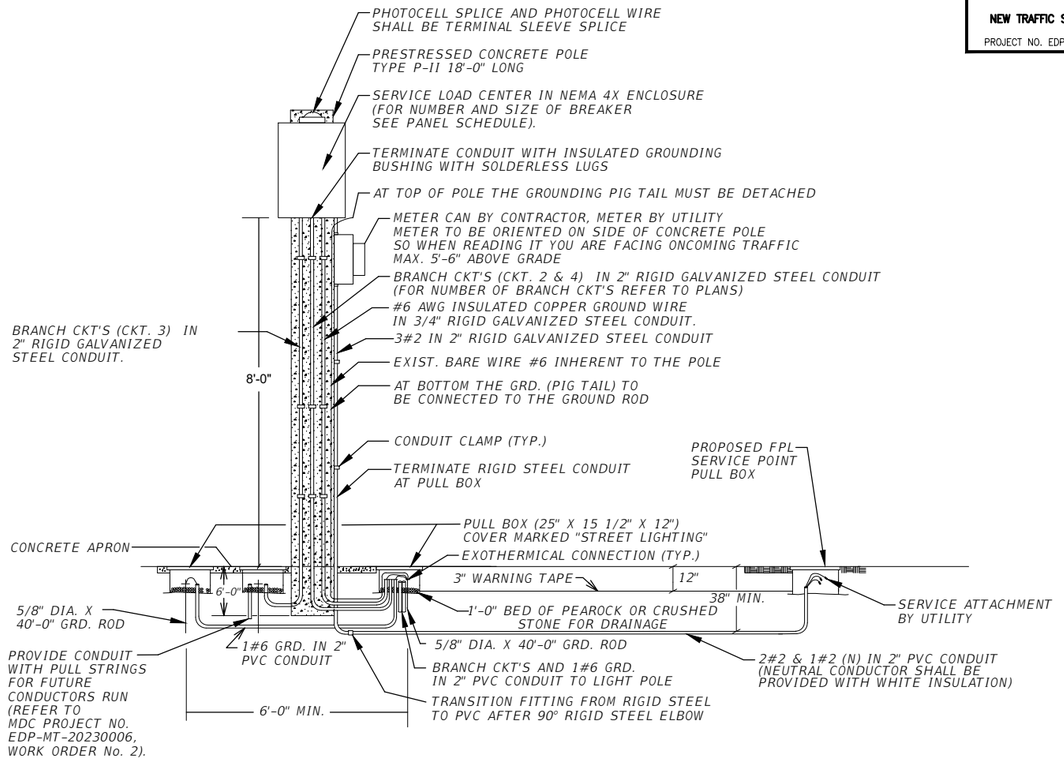
WIRING DIAGRAM SERVICE LOAD CENTER

NTS



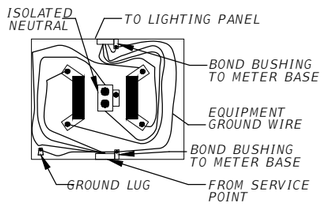
LIGHTING CONTROL CENTER

NTS



SERVICE POINT DETAIL

NTS



METER SOCKET DETAIL

NTS

PANEL BOARD SCHEDULE					
NEMA-1 1Ø,3W,240/120 V, (2P - 60A MCB) 35,000 RMS SYMETRICAL SURF-MTD					
CKT NO	SERVING	VA	AMPS	C. BKR	WIRE/CONDUCT
1	SPD	-	-	20A	#12
2	L. POLES	221	0.92	40A	#6
3	L. POLES	221	0.92	40A	#6
4	L.POLES	331	1.38	40A	#6
5	SPARE	---	---	40A	---

NUMBERS OF BRANCH CKT. BREAKERS AS REQUIRED

LOAD CENTER LOAD CALCULATION:

CONTINUOUS LOADS= 770 VA

25% CONT. LOAD = 193 VA $\quad Amp=\frac{963VA}{240V}=4.01A$

TOTAL= 963 VA

NOTES:

1. THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
2. THE ENCLOSURE DOOR SHALL BE SECURED BY LOCKABLE LATCH. THE DOOR SHALL HAVE A MINIMUM OF THREE HINGES AND BE LATCHABLE. NO SCREWS TO BE USED TO ATTACH DOOR.
3. 480V MINIMUM RATING BOLT IN TYPE BREAKERS SHALL BE USED.
4. A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
5. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
6. BUS BAR TO BE COPPER COATED AND HAVE A MINIMUM RATING OF 60 AMPS. WHEN MAIN BREAKER EXCEEDS 60 AMPS BUS BAR TO MATCH MAIN BREAKER AMPERAGE.
7. LOCATE CONTACTOR, TRANSFORMER, AND H.O.A. SWITCH INSIDE ENCLOSURE. THE ENCLOSURE TO BE SIZED TO ACCOMMODATE AS MANY BREAKERS AS CALLED FOR AND ALL OTHER SERVICE EQUIPMENT.
8. CONTRACTOR SHALL COORDINATE WITH F.P.L. ENGINEERS FOR THE INSTALLATION OF THE F.P.L. RISER WHICH INCLUDES A CONNECTION FEE. (THIS FEE SHALL BE INCLUDED IN BID ITEM 715-7-11)

NOTES (CONT.):

9. ALL GROUND ROD SHALL BE INTERCONNECTED (USING #6 GROUND WIRE).
10. PROVIDE SUPPLEMENTARY GROUND ELECTRODE SPACED AT LEAST 6FT APART (AS PER N.E.C. REQUIREMENT).
11. ALL CONDUCTOR SHALL BE TYPE RHH-RHW2-XLP. (OTHER TYPE OF CONDUCTOR IS NOT ALLOWED. EXCEPT GROUND WIRE WHICH SHALL BE TYPE THWN.)
12. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS OF THE POLE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
13. AFTER OPENING THE PANEL, THE PANEL BOARD SHALL HAVE A DEAD FRONT COVER FOR THE PURPOSE OF COVERING ALL THE WIRING AND EXPOSING ONLY THE BUTTONS OF THE BREAKERS; IN COMPLIANCE WITH THE N.E.C.
14. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
15. WIRES END WITHIN CABINET TO BE IDENTIFIED WITH WIRE MARKERS.
16. DESIGNATES TERMINAL FOR CUSTOMER CONNECTIONS.

SERVICE POINT DETAIL & PANELBOARD 240V/120V

REVISIONS								
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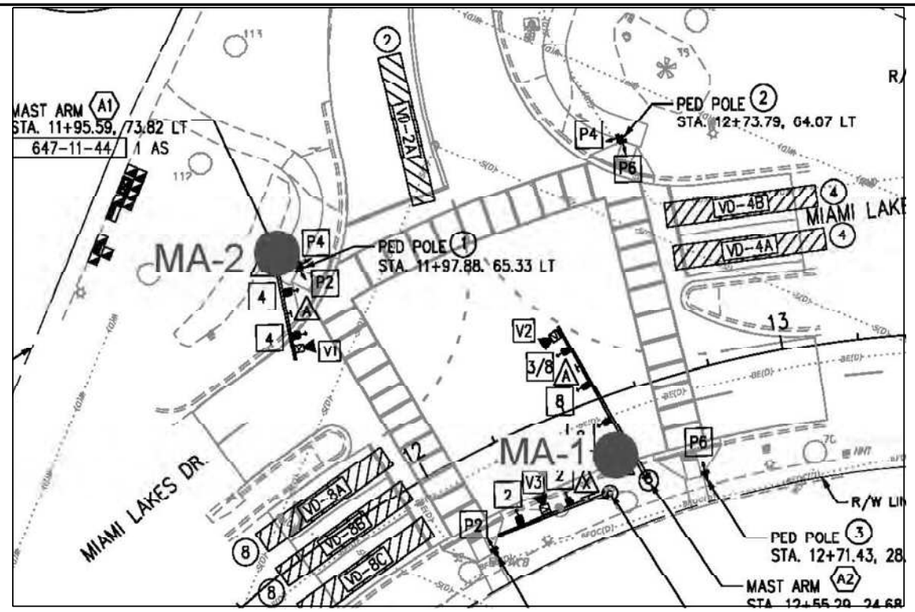
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SUPERVISED BY:

MIAMI-DADE COUNTY

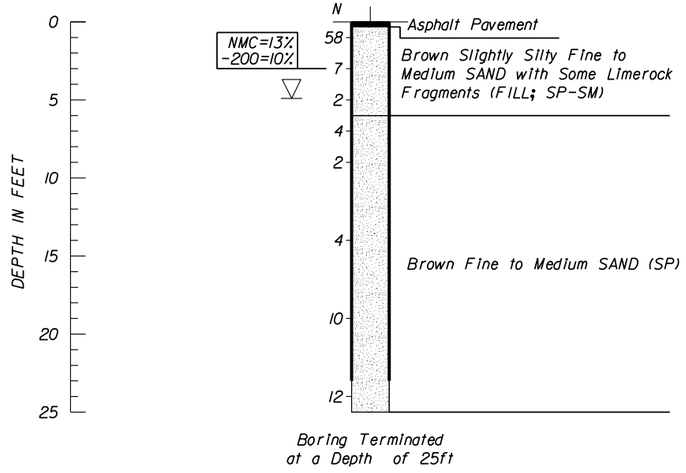
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

LIGHTING PLANS



BORING LOCATION PLAN

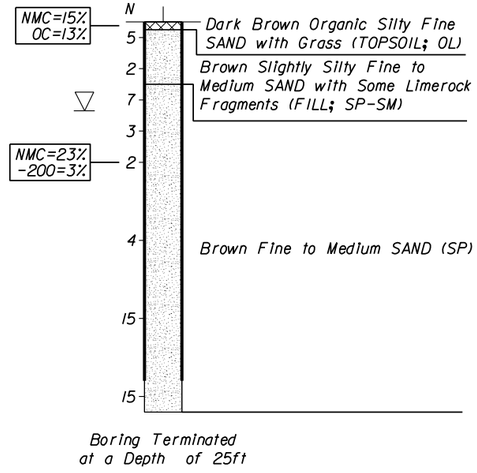
BOR # MA-1
STA. 12+50 B/L MIAMI LAKES DR.
OFF. 15 RT
ELEV. N/A
DATE 5/23/2023
DRILLER J. Gonzalez - GEOSOL, Inc.
HAMMER Auto
RIG B-53
LATITUDE 25.911222
LONGITUDE -80.304984
NORTHING 574029.382
EASTING 884619.616



Boring Terminated at a Depth of 25ft

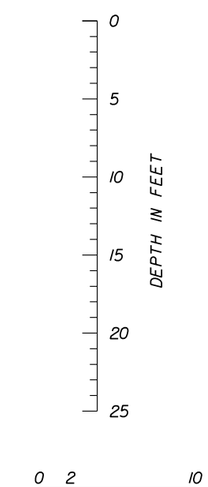
Casing Length 23ft

BOR # MA-2
STA. 11+95 B/L MIAMI LAKES DR.
OFF. 70 LT
ELEV. N/A
DATE 5/23/2023
DRILLER J. Gonzalez - GEOSOL, Inc.
HAMMER Auto
RIG B-53
LATITUDE 25.911379
LONGITUDE -80.305244
NORTHING 574085.993
EASTING 884533.849



Boring Terminated at a Depth of 25ft

Casing Length 23ft



0 2 10
Feet

VERTICAL SCALE
HORIZONTAL SCALE: N.T.S.

LEGEND

- TOPSOIL (OL)
- ASPHALT PAVEMENT
- SAND (FILL; SP-SM)
- SAND (SP/SP-SM)
- WATER TABLE AT TIME OF DRILLING
- SPT BORING LOCATION
- CASING USED
- N — NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED).
- NMC — NATURAL MOISTURE CONTENT (%)
- -200 — FINES PASSING THE #200 SIEVE (%)
- OC — ORGANIC CONTENT (%)

NOTES:

1) SPT BORINGS PERFORMED PER ASTM D-1586 WITH A HAMMER WEIGHT OF 140 LBS FALLING 30 INCHES.

CONSTRUCTION NOTES:

1) THE CONTRACTOR IS ADVISED THAT CAVING SATURATED SANDY SOILS MAY BE ENCOUNTERED DURING THE EXCAVATION FOR INSTALLATION OF DRILLED SHAFTS.

GRANULAR MATERIALS- RELATIVE DENSITY	AUTOMATIC SPT HAMMER (BLOWS PER FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTANCY	**AUTOMATIC SPT HAMMER (BLOWS PER FOOT)**
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GEOSOL, INC.
5795-A NW 151ST STREET
MIAMI LAKES, FL 33014
PHONE: 305-628-4367
CA # 8530

	NAME	DATE		NAME	DATE
DESIGNED BY	OR	05/23	DRAWN BY	AI	05/23
CHECKED BY	JG	05/23	CHECKED BY	OR	05/23

SUPERVISED BY: ORACIO RICCOBONO, P.E.

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK
111 NW 1ST ST
MIAMI, FLORIDA 33128

REPORT OF CORE BORINGS