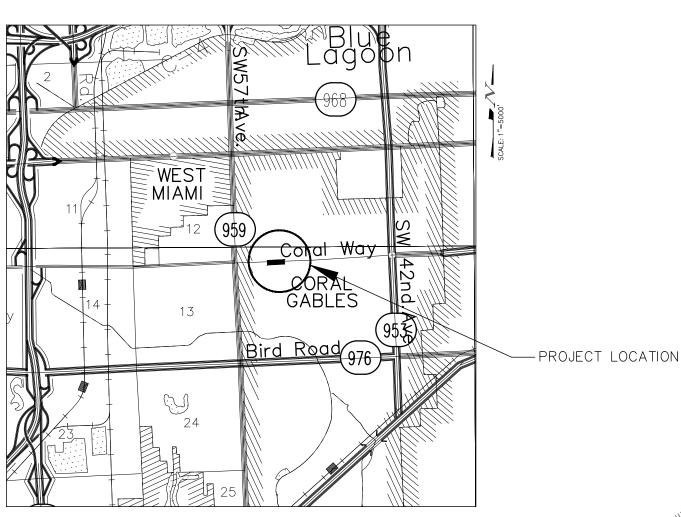
SHT. No.	SHEET DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SURVEY NOTES, KEY SHEET, LEGEND AND ABBREVIATIONS
4	DRAINAGE PLAN
5	PROPOSED DRAINAGE STRUCTURE TABLE, CONFLICT TABLE AND SUMMARY OF QUANTITIES
6	STANDARD DETAILS
7	SEDIMENT BARRIERS DETAILS
8	INLET PROTECTION SYSTEMS DETAILS
9	STORMWATER POLLUTION PREVENTION PLAN
10	SIGNING & PAVEMENT MARKING PLAN

PLANS FOR PROPOSED
DRAINAGE IMPROVEMENTS TO

CORAL WAY

FROM MADRID ST. TO COLUMBUS BLVD

MIAMI-DADE COUNTY PROJECT NO. 20210108 FUNDING SOURCE: STORMWATER UTILITY 100% PLANS



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.



PREPARED FOR



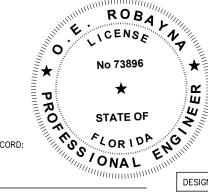
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION STORMWATER DRAINAGE DESIGN SECTION

> STEPHEN P. CLARK CENTER 111 NW 1 ST, SUITE 1510 MIAMI, FLORIDA 33128

PREPARED BY

ROBAYNA

ROBAYNA AND ASSOCIATES INC. 5723 NW 158TH STREET MIAMI LAKES, FLORIDA 33014



ENGINEER OF RECORD:

ROBAYNA AND ASSOCIATES, INC. OSCAR E ROBAYNA, P.E. FLORIDA REGISTRATION P.E. No. 73896 CIVIL ENGINEER

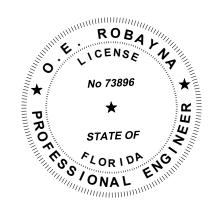
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DATE _	06-26-2023	SHEET	_1_	OF _	10

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 ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



- 1. ALL ELEVATIONS REFER TO THE MSL, 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD)
- 2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PERMITTING REQUIREMENTS OF MIAMI DADE COUNTY REGULATORY AND ECONOMIC RESOURCES AND THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
- 3. IT IS THE INTENT THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THERE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE
- 4. CATCH BASINS, SEEPAGE DRAINS, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS TO BE ACCORDING TO THE DETAILS AND APPLICABLE REQUIREMENTS OF THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
- 5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING
- 6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES. STRUCTURES, AND UTILITIES WITH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH TEMPORARLY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE; ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION 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.
- 8. CONTRACTOR SHALL CONTACT THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
- 9. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT MAY BE REQUIRED FOR TREE REMOVAL. CONTRACTOR SHALL NOTIFY REGULATORY AND ECONOMIC RESOURCES DEPARTEMENT AND MUNICIPALITIES WITH JURIDICTION PRIOR TO REMOVING ANY TREES.
- 10. EXISTING GRADES WERE TAKEN FROM 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 ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- 11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATION.
- 12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DETERMINED, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN
- 13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- 14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- 15. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
- 16. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20: 16,000 LBS. OVER 8"X 20" AREA.
- 17. ALL STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
- 18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN SECTION C2 AND SECTION R19 OF THE PUBLIC WORKS DEPARTMENT MANUAL. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD.
- 20. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
- 21. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB
- 22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
- 23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY - FRIDAY 7-9 A.M. AND 4-6 P.M.; NO INTERRUPTION TO TRAFFIC IS PERMITTED. ALL OTHER TIMES: A) MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN. B) MAINTAIN ONE LANE IN EACH DIRECTION FOR TRAFFIC.
- 24. CONTRACTOR MUST PROVIDE FLASHER ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.
- 25. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF THE DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
- 26. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. THREE (3) SETS LABELED "AS—BUILT" MUST BE SUBMITTED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE OF
- 27. IT IS RESPONSIBILITY OF THE CONTRACTOR TO SELECT AND OBTAIN THE APPROPRIATE PERMISSION FROM MIAMI-DADE COUNTY OR APPLICABLE AGENCY THAT HAS JURISDICTION ON THE "PROPOSED" STAGING AREAS.

- 28. DRAINAGE/UTILITY TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. A TEMPORARY COVER WITH A CAPACITY OF H-20 LOADING SHALL BE PLACED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO MIAMI-DADE COUNTY.
- 29. PROVIDE FLOWABLE FILL OVER PIPE AS COVER WHERE MINIMUM PIPE COVER OF 2 FEET CANNOT BE ACCOMPLISHED UNDER PAVED AREAS. HOWEVER. THE COVER WITH FLOWABLE FILL SHALL BE NO LESS THAN 12 INCHES.
- 30. ALL STATIONS AND OFFSETS REFER TO [CENTERLINE]/[BASELINE] OF CONSTRUCTION, UNLESS OTHERWISE STATED.
- 31. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
- 32. 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 CONSTRUCTION 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 UTILITY COORDINATOR PATRICK CHONG AT 786-268-5255. 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: 786-268-5469. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT 305-552-4926, BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, WASD EMERGENCY NUMBER 305-552-8901. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
- 33. 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 SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK
- 34. 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.
- 35. IF SHEETING, SHORING OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR 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.
- 36. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
- 37. 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.
- 38. 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
- 39. 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.
- 40. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
- 41. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS. PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. 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.
- 42. CONTRACTOR TO INSTALL 1/2" PERFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
- 43. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6"CONCRETE.
- 44. ALL BUS STOP SIGNS TO BE FURNISHED BY MIAMI-DADE TRANSPORTATION AND PUBLIC WORKS DEPARTMENT. ENGINEER TO CONTACT MIAMI-DADE COUNTY TRANSPORTATION AND PUBLIC WORKS DEPARTMENT AT (305) 637-3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHES.
- 45. 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.
- 46. ANY SURVEY MONUMENT, BENCH MARK, ETC., FOUND DURING CONSTRUCTION ACTIVITIES ARE TO BE RESTORED TO IT IS ORIGINAL LOCATION AND COORDINATES AS DEPICTED IN COUNTY RECORDS PLAT AND BOOK. RESTORATION WILL BE AT NO ADDITIONAL COST AND MUST BE SHOWN ON AS-BUILT PLANS.
- 47. FOR THE INSTALLATION OF SOD IN SWALE AREAS ADJACENT TO ROADWAYS, SIDEWALKS, DRIVEWAY APPROACHES OR ANY OTHER PAVED SURFACES, THE SWALE MUST BE RESTORED TO FORM A "" SHAPE AS PER THE DETAILS INCLUDED IN THE MIAMI DADE COUNTY PUBLIC WORKS MANUAL. SPECIFICALLY, THE ELEVATION OF THE TOP OF THE SOD MUST MATCH THE ABUTTING AREAS (EDGE OF PAVEMENT, SIDEWALK OR DRIVEWAY APPROACH) AND THE CENTERLINE OF THE SWALE SHALL BE ON AVERAGE 3 INCHES BELOW THE ROADWAY EDGE OF PAVEMENT ELEVATION UNLESS OTHERWISE DIRECTED BY THE



CORAL WAY. FROM MADRID ST. TO COLUMBUS BLVD DRAINAGE IMPROVEMENT PROJECT

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REVISIONS DESCRIPTION DATE BY DATE BY DESCRIPTION DATE BY DESCRIPTION

CORAL WAY
FROM MADRID ST TO COLUMBUS BLVD

DATE NAME DATE AC/GC 06/26/2023 DRAWN VET/GC 06/26/2023 | BY | OER | 06/26/2023 | CHECKED | OER | 06/26/2023 | BY | OER | 06/26/2023 |

MIAMI-DADE

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION

GENERAL NOTES

-SURVEY PERFORMED BY DTPW SURVEY SECTION.

-CORAL WAY FROM MADRID ST TO COLUMBUS BLVD

-THE ELEVATIONS ARE BASED ON NGVD 1929, MIAMI DADE COUNTY

-BENCHMARK FOR VERTICAL CONTROL INFORMATION WAS RECORDED

-RIGHT-OF-WAY LINES SHOWN HEREON AS PER EXISTING PLATS.

-SURVEY DATE: 12-08-2020 -SURVEY AS PER

BM NAME 1 = P-510-M.D.C.B.M

BM NAME 2 = P-401-M.D.C.B.M

-US C&G BRASS DISC (TRIANGULATION STA.)

-SECTION 07 & 18, TOWNSHIP 54, RANGE 41.

LOCATION MAP

& KEY MAP

F.B. 2980 PAGE 39-42

BM ELEV 1= 11.78'

BM ELEV 2= 16.34'

BY DTPW SURVEY SECTION.

CORAL WAY. FROM MADRID ST. TO COLUMBUS BLVD

LIVE OAK TREE

MAMEY TREE

BLACK OLIVE TREE

BISMARCK PALM

AVOCADO TREE

BISCHOFIA TREE

BOTTLE PALM BANANA TREE

BANYAN TREE

CABBAGE TREE

COCONUT TREE

CLUSTER PALM

CANARY PALM

COCOS PLUMOSA

DATE PALM FICUS TREE

FLORIDA ORCHID TREE

FOX TAIL TREE

GUMBO LIMBO TREE

HIBISCUS TREE IXORA TREE

JUNIPER TREE

JARACANDA TREE

KAPOK TREE

V 2 V 2 V 2 V 2 = CONCRETE = ASPHALT 108/008/05 = UNIMPROVED DRIVEWAY ****

П

= GRAVEL = BRICK = STAMPED CONCRETE

= EXISTING CATCH BASIN

= EXISTING STORMWATER MANHOLE

= CONCRETE BLOCK FENCE

= PROPOSED CATCH BASIN = PROPOSED STORMWATER MANHOLE

----- = EXISTING SOLID PIPE

= PROPOSED SOLID PIPE

= PROPOSED FRENCH DRAIN

-x-x-x-x-x-x-x- = CHAIN LINK FENCE

r; Fd = FUUND
CND = CONCRETE NAIL & DISK
PKF = PK NAIL FOUND
CNDF = CONCRETE NAIL & DISK FOUND
CNF = CONCRETE NAIL & DISK FOUND
CNC = CONCRETE NAIL CUT
DHF = DRILL HOLE FOUND
NF = NAIL FOLIND DHF = DRILL HOLE FOUND
NF = NAIL FOUND
PKDF = PK NAIL & DISK FOUND
R/W = RIGHT OF WAY
RBAC = ROCK BASE ASPHALT COMPOUND ---EIIIIIIIII--- = EXISTING FRENCH DRAIN PLS = PROFESSIONAL LAND SURVEYOR = ALUM. FLASHING SCHOOL LIGHT

(M) = MEASURES (P) = By PLAT F; Fd = FOUND

B = BASE LINE

= RADIUS

= CENTER LINE

C&G = CURB & GUTTER

E/W = EDGE OF WATER

= STREET SIGN

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W

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WAY

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AVE

<u> ALMERIA</u>

= VALLEY GUTTER

= LENGTH OF CURVE

= EDGE OF PAVEMENT T/B = TOP OF BANK

PCP = PERMANENT CONTROL POINT

RLS = REGISTERED LAND SURVEYOR

= DECORATIVE LIGHT POLE = METAL LIGHT POLE

= METAL POWER POLE = CONCRETE LIGHT POLE

= WOOD LIGHT POLE

= WOOD POWER POLE

= SANITARY MANHOLE = SANITARY SEWER VALVE (FM)

= CABLE TV PEDESTRIAN

= TV CABLE RISER BOX

= TELEPHONE MANHOLE = TELEPHONE UTILITY BOX

= TELEPHONE RISER BOX

= TELEPHONE RISER CONTROL BOX = TELEPHONE CONTROL BOX

= TV CONTROL BOX

= CROSSING SIGN

= SPRINKLE HEAD

= FIRE HYDRANT = WATER VALVE

= WATER METER

= CENTRAL ANGLE OF CURVE = MONITORING WELL

TRAFFIC SIGH MANHOLE TRAFFIC SIGH HANDHOLE

TRAFFIC CONTROL BOX

= ELECTRICAL CONTROL BOX = RAIL ROAD CROSSING (LIGHT)

DESCRIPTION

= TRAFFIC SIGNAL BOX

= PETROLEUM PIPELINE

= ELECTRIC HANDHOLE = ELECTRIC MANHOLE

= CABLE BOX = TELEPHONE HANDHOLE

= ROX

= POST

= INTERCOM = GAS VALVE

= PVC POST = GUY WIRE

= CONCRETE POWER POLE

= WOOD TELEPHONE POLE

= FIBERGLASS LIGHT POLE = WATER MANHOLE

= METAL TRAFFIC LIGHT POLE

-m-m-m-m-m-m- = F.P.L. UNDERGROUND - = BELL SOUTH TELEPHONE CONDUIT ----- = BASFLINE --- = SANITARY SEWER

ARECA TREE AUST. PINE TREE ALMOND TREE BOTTLE BRUSH TREE BUSH TREE BRAZILIAN PEPPER CYPRESS TREE CACTUS

MULBERRY TREE MAHOGANY TREE MANGO TREE MANGROVE TREE NISPERO TREE NORFOLK TREE OAK TREE ORANGE GEIGER PINE TREE PALM TREE PHILODENDRON/RUBBER TREE QUEEN PALM TREE (\mathfrak{B}) RHOBOLINI TREE ROYAL POINCIANA TREE ROSEWOOD TREE ROYAL PALM SOUR ORANGE TREE SEA GRAPE TREE SOLITARY PALM SILVER BUTTONWOOD TREE TABEBULA TREE TRAVELER CLUSTER TAMARIND TREE UNKNOWN TREE UMBRELLA TREE

ROBA CENSE 0 No 73896 STATE OF INTO ONAL FLORIDA

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KEY SHEET TRS 54-41-07/18 R E V I S I O N S DESCRIPTION DESCRIPTION DATE BY DATE BY DATE BY

CORAL WAY
FROM MADRID ST TO COLUMBUS BLVD

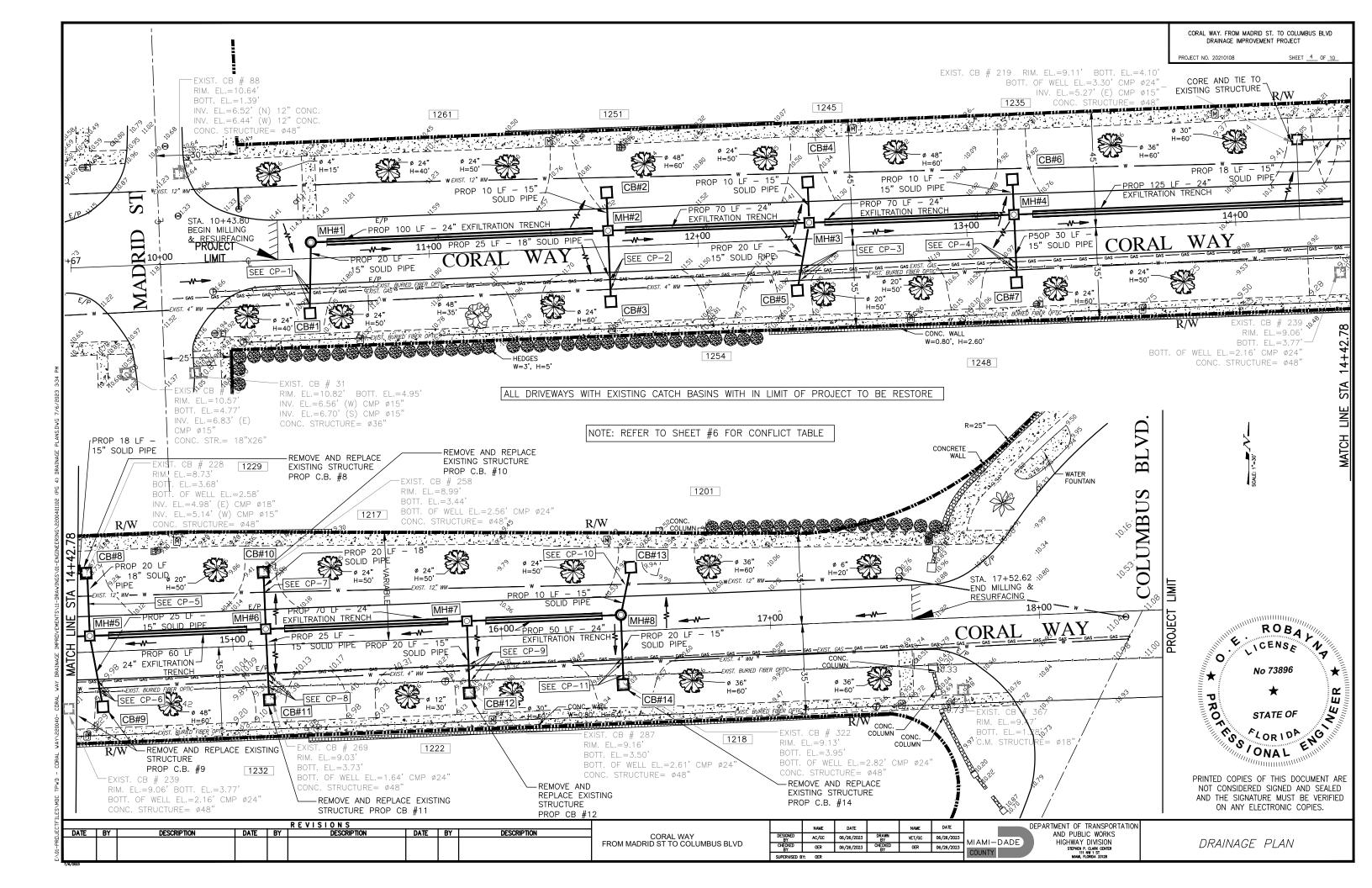
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS MIAMI-DADE HIGHWAY DIVISION

WASHINGTON PALM

ZAPODILLA TREE

SURVEY NOTES. KEY SHEET. LEGEND AND ABBREVIATIONS



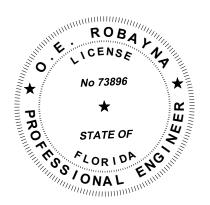
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ITEM NO	DECORPORTION		OLIANITITY.
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
102-71-12	TEMPORARY BARRIER WALL (FURNISH & INSTALL) (WATER FILLED)	L.F.	200
102-74-1	BARRICADES (TEMPORARY - TYPES I, II, VP AND DRUM)	E.A./DAY	9600
102-74-2	BARRICADES (TEMPORARY -TYPE III, 6')	E.A./DAY	9600
102-76A	ADVANCE WARNING ARROW PANEL	E.A./DAY	600
102-91-1A	PAVEMENT MARKING TEMPORARY (SOLID) (ANY WIDTH) (YELLOW OR WHITE) (PAINT)	L.F.	3060
102-77	HIGH INTENSITY FLASHING (TEMPORARY, TYPE"B")	E.A./DAY	2400
102-99	VARIABLE MESSAGE SIGN (TEMPORARY)	E.A./DAY	40
104-10-3	SEDIMENT BARRIER	L.F.	500
104–18	INLET PROTECTION SYSTEM	EACH	17
125-8	BACKFILLING EXISTING TRENCH	C.Y.	34
327-70-01	MILLING 1" AVERAGE DEPTH	S.Y.	1249
331-72-10A-HMA	ROADWAY PAVEMENT RESTORATION (REPLACE AND MATCH EXISTING BASE THICKNESS AND ASPHALT COURSE WITH 8" MINIMUM, PRIMED LIMEROCK BASE AND 1" THICK OF HMA, ASPHALT WORK CATEGORY 3)	S.Y.	619
331-72-10B-HMA	INLET PAVEMENT (INCLUDES 6" LIMEROCK BASE AND 1" THICK OF HMA, ASPHALT WORK CATEGORY 2)	S.Y.	130
334-2-13-1	HOT MIX ASPHALT , TRAFFIC C, SP-9.5	TON	104
334-2-13-1A	DRIVEWAY PAVEMENT ASPHALT	SY	409
400-1-15	CLASS I CONCRETE [(MISCELLANEOUS)(TRENCH BUILD-UP, COLLARS, PIPE PLUGS, STRUCTURE PLUGS ETC.) (THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER)]	CY	5
425-1-1	SWALE INLET TYPE D-3 (36" DIA.) (LESS THAN 10' DEEP)	E.A.	13
425-1-2A	SWALE INLET TYPE D-3 (36"X36" DIA.) (LESS THAN 10' DEEP)	E.A.	1
425-2-41	MANHOLE (TYPE P-7T, ANY DIMENSION, MAXIMUM 15' DEEP)	E.A.	8
425-82	MODIFY STRUCTURE-CUT TO ENLARGE OPENING AS NEEDED IN ORDER TO ACCOMMODATE PIPE DUE TO UTILITY CONFLICTS, BRICK AND MORTAR AS NEED	E.A.	4
430-171-115	PIPE CULVERT (15" DIAMETER)	L.F.	283
430-171-124	PIPE CULVERT (24" DIAMETER ROUND)	L.F.	50
430-94-1-1	DESILTING PIPE, 0-48"	L.F.	100
430-95-2	DESILTING DRAINAGE STRUCTURE	E.A.	5
443-70-4-3	FRENCH DRAIN (24" DIAMETER PIPE, TRENCH DEPTH 15 FT BLS)	L.F.	545
522-1(1)	CONCRETE SIDEWALK(4" THICK)(CLASS CONCRETE, 3000 P.S.I)(INCLUDING PEDESTRIAN RAMPS AND SIDEWALK CURBS)	S.Y	20
575-2A	SODDING- ST AUGUSTINE, OR MATCH EXISTING, INCLUDES WATERING AND MAINTENANCE. CONTINGENT ITEM BASED ON FIELD CONDITIONS, MAY BE INCREASED, OR DECREASED BY THE ENGINEER.	S.Y.	778
580-3	TREE PROTECTION BARRICADES	L.F.	1120
706-1-12	REFLECTIVE PAVEMENT MARKERS, (CLASS B, MONO OR BI-DIRECTIONAL, ALL COLORS)	E.A.	36
711-11-121	THERMOPLASTIC (WHITE) (SOLID 6")	L.F.	1560
711-11-221	THERMOPLASTIC (YELLOW) (SOLID 6")	L.F.	1500

PROPOSED STRUCTURES SCHEDULE										REMARKS		
CTRUCTURE	TRUCTURE TYPE OF STRUCTURE STATION INSIDE DIMENSIONS RIMEL FT BOTTOMEL FT PIPE INVERT ELEVATION											
STRUCTURE	TYPE OF STRUCTURE	STATION	INSIDE DIMENSIONS	KIIVI EL. FI	BOTTOMEL, FT	N	S	E	W	SW	NE	
MH- 1	Р-7Т	10 + 60.00	48"	11.90	1.20		4.62	3.20				
CB-1	D-3	10+60.50 (27' RT)	36"	10.40	2.62	4.62						
CB-3	D-3	11+58.00 (21' RT)	36"	10.20	2.50						4.50	
MH- 2	P-7T	11+58.00	42"x42"	11.77	1.20	3.70		3.20	3.20	4.50		
CB-2	D-3	11+58.00 (21' LT)	36"	10.30	1.70		3.70					
CB-5	D-3	11 +42.50 (21' RT)	36"	10.40	2.50						4.50	
CB-4	D-3	12+47.00 (21' LT)	36"	9.70	0.70		2.70					
MH-3	P-7T	12+47.50	42"X42"	11.48	0.70	2.70		3.20	3.20	4.50		
CB-7	D-3	13+22.50 (21' RT)	36"	10.00	1.50						3.50	
MH-4	P-7T	13+22.50	42"X42"	11.10	0.70	2.70		3.20	3.20	3.50		
CB-6	D-3	13+22.50(21'LT)	36"	9.20	0.70		2.70					
CB-9	D-3	14 + 50.80 (21' RT)	36"	9.00	3.00						5.00	REMOVE AND REPLACE EXIST. CATCH BASIN
CB-219		14+23.85(30' LT)	48"	9.11	3.30			EXIST.				EXIST. CATCH BASIN TO REMAIN
CB-8	D-3	14+45.74 (30' LT)	36"x36"	8.73	0.70		2.70		EXIST.			REMOVE AND REPLACE EXIST. CATCH BASIN
MH-5	P-7T	14+47.74	42"X42"	10.34	0.70	2.70		3.20	3.20	3.50		
CB-10	D-3	15+17.50 (28' LT)	36"	9.00	0.70		2.70					REMOVE AND REPLACE EXIST. CATCH BASIN
MH-6	P-7T	15+17.50	42"X42"	10.30	0.70	2.70	3.50	3.20	3.20			
CB-11	D-3	15+17.50(21' RT)	36"	9.00	1.50	3.50						REMOVE AND REPLACE EXIST. CATCH BASIN
CB-12	D-3	15+92.50 (21' RT)	36"	9.00	1.00	3.00						REMOVE AND REPLACE EXIST. CATCH BASIN
MH-7	P-7T	15 + 92.50	42"X42"	10.60	1.00		3.00	3.20	3.20			
MH-8	P-7T	16+50.00	48"	10.71	1.00		4.00		3.20		3.00	
CB-14	D-3	16+51.00 (20' RT)	36"	9.15	2.00	4.00						REMOVE AND REPLACE EXIST. CATCH BASIN
CB-13	D-3	16 + 55.00 (24' LT)	36"	9.40	1.00					3.00		

			со	NFLICT TABLI	E				
CONFLICT DOINT	DRA	INAGE	W	ATER	(GAS	FIBER OPTIC		
CONFLICT POINT	INVERT EL.	PIPE DIAMETER	TOP EL.	PIPE DIAMETER	TOP EL.	PIPE DIAMETER	TOP EL.	PIPE DIAMETE	
CP-1	4.62	15"	(A)+6.95	4"	(A)+8.5	4"	(A)+8.00	3"	
CP-2	4.50	15"	(A)+6.96	4"	(A)+8.00	4"	(A)+7.5	3"	
CP-3	4.50	15"	(A)+6.98	4"	(A)+7.98	4"	(A)+8.48	3"	
CP-4	3.50	15"	(A)+6.70	4"	(A)+8.00	4"	(A)+7.9	3"	
CP-5	2.70	15"	(A)+6.00	12"					
CP-6	5.00	15"	(A)+5.92	4"	(A)+6.92	4"	(A)+7.42	3"	
CP-7	2.70	15"	(A)+5.70	12"					
CP-8	3.50	15"	(A)+5.30	4"	(A)+6.4	4"	(A)+2.82	3"	
CP-9	3.00	15"	(A)+5.35	4"	(A)+6.45	4"	(A)+2.85	3"	
CP-10	3.00	15"	(A)+6.25	12"					
CP-11	4.00	15"	(A)+6.50	4"	(A)+7.5	4"	(A)+6.63	3"	

ELEVATIONS OF PIPES WERE NOT PROVIDED BY UTILITY COMPANY. THEREFORE STANDARD COVER WERE ASSUMED. ASSUMED TOP AND PIPE DIAMETER ARE PRECEDED BY AN "A". ELEVATION ON TABLE ARE IN N.G.Y.D.



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	REVISIONS										
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			

CORAL WAY FROM MADRID ST TO COLUMBUS BLVD

	NAME	DATE		NAME	DATE	
DESIGNED BY	AC/GC	06/26/2023	DRAWN By	VET/GC	06/26/2023	Ιм
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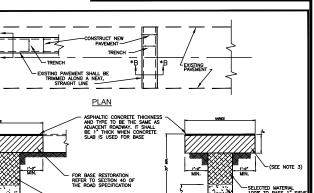
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AND PUBLIC WORKS
HIGHWAY DIVISION
COUNTY

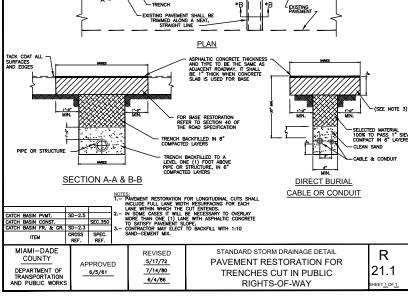
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AND PUBLIC WORKS
HIGHWAY DIVISION
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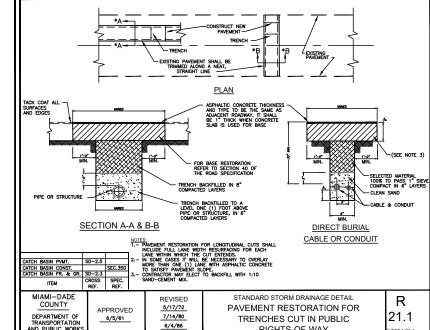
PROP. DRAINAGE STR. TABLE, CONFLICT TABLE & SUMM OF QUANTITIES

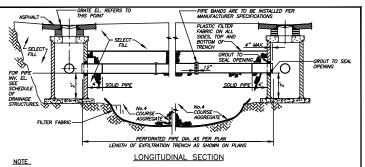


PROJECT NO. 20210108 SHEET 6 OF 10

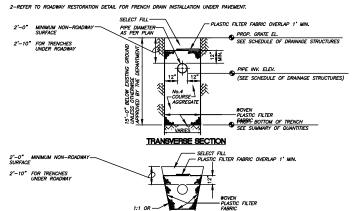








1—AFTER THE COURSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL NO.4 COURSE AGGREGATE WILL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EVETTIENTION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.



ALT. TRANS. SECTION. PLASTIC FILTER FABRIC SHALL BE WOVEN MONOFLAMENT POLYPROPPLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC-1 AND FLOW RATE GREATER OF EQUAL. TO 5 opt/min.
 * MAY BE USED IN AREAS WHERE TRENCH MALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ROMNER'S DISCRETION.

	IAMI-DADE COUNTY		REVISED 2/8/2011	STANDARD STORM DRAINAGE DETAIL	SD
TRANS	RTMENT OF SPORTATION IBLIC WORKS	APPROVED	9/26/2012 10/19/2012	EXFILTRATION TRENCH (FRENCH DRAIN)	1.1 SHEET _1_0F_2

GENERAL NOTES FOR PIPE CULVERTS

CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS						
PIPE DIAMETER	OUTER SHELL	LINER				
(inches)	No. of ¾" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 5/8" Dia. Holes (PER LIN. FT. OF PIPE)				
15	100	50				
18	120	60				
24	160	80				
30	200	100				
36	240	120				
42	275	140				
48	315	150				
54	355	180				
60	395	200				
72	470	235				
84	550	275				

PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 	REVISED <u>6-4-86</u> 10-22-13	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1 SHEET _2_0F_

æ	RENORCEMENT AS PER TABLE ON SHEET 4 OF 4 RENORCEMENT AS PER TABLE ON SHEET 4 OF 4 RENORCEMENT AS PER TABLE ON SHEET 4 OF 4 SQUARE TOP SQUARE TOP SQUARE TOP LEVELING COURSE (SEE SO 4.5 & 100) MOTTHE SHACE RETHERD PIPE STRUCTURE SEE NOTE 2
	IO" WEEP HOLE SEE NOTE 5 1/4" GALWANZED HARDWARE CONT SEEN NOTE 5 1/4" GALWANZED HARDWARE CONT SEEN NOTE 5 1/4" GALWANZED HARDWARE CONT SEEN NOTE 5 1/4" GALWANZED HARDWARE AGGREGATE IN. 4 COMES AGGREGATE IN. 2/27/2" SECTION NOTES: 1. CAST TOP SLAB TO FIT WILL USED. 2 PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4". 3 SEE 4, GOD poil CONCRETE, (MINIMAN), MAXIMUM W/C-0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WILL WILL WILL WILL WEED. 4 A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE. 5. WEEP HOLE 5 1. CAST TOP SLAB TO FIT WILL USED. 2 PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM W/C-0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WILL WILL WILL WEED. 5. WEEP HOLE 5 1. CAST TOP SLAB TO FIT WILL USED. 2 PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE, MINIMAN), MAXIMUM W/C-0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WILL WILL WEED. 5. WEEP HOLE 5 1. CAST TOP SLAB TO FIT WILL USED. 2 PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE, MINIMAN, MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN, MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN, MAXIMUM W/C-0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR THE WILL WILL WEED. 5. WEEP HOLE 5 1. CAST TOP SLAB TO FIT WILL USED. 2 PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN, MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN OF MINIMAN MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN OF MINIMAN MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN OF MINIMAN MAXIMUM OF 4". 3 SEE A GOD poil CONCRETE MINIMAN OF MINIM
ro	CONSTRUCTION JOINT MIAMI-DADE COUNTY DEPARTMENT OF APPROVED 5/8/2018 APPROVED 5/8/2018 REVISED 5/8/2018 MANHOLE AND INLET 2.7 (TYPE P)
빌 기	AND PUBLIC WORKS SHEET 1 OF 4

Standard Detail	Width Lengt		Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Stee
2.7	3.5	3.5	0.0 - 5.0	6.0	#4@10"H #4@10"V	8.0	#4@7" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	5.1 - 10.0	6.0	#4@9"H #4@10"V	8.0	#4@6" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	10.1-15.0	6.0	#5@6"H #4@10"V	8.0	#4@6.5" E.W.	8.0	#4@10" E.W.

ROUND STRUCTURE													
Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel				
2.7	3.5	4.0	0.0 - 5.0	6.0	8 x 8 W20 or #4@10"E.W	8.0	#4@7" E.W.	8.0	#4@10" E.W.				
2.7	3.5	4.0	5.1 - 10.0	6.0	8 x 8 W20 or #4@10"E.W	8.0	#4@6" E.W.	8.0	#4@10" E.W.				
2.7	3.5	4.0	10.1 - 15.0	6.0	8 x 8 W20 or #4@10"E.W	8.0	#4@6.5" E.W.	8.0	#4@10" E.W.				

MIAMI—DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7 SHEET 1 .0F 1

	SQUARE STRUCTURE												
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slak Steel				
2.2	3	3	0.0 - 5.0	6	#4@10"H #4@10"V	8	#4@5" E.W.	8	#4@10" E.W.				
2.2	3	3	5.1 - 10.0	6	#4@7.5"H #4@10"V	8	#4@5" E.W.	8	#4@10" E.W.				
2.2	3	3	10.1-15.0	6	#5@7.5"H #4@10"V	8	#4@5" E.W.	8	#4@10" E.W.				

2.—USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
3.—PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4*.
4.—APPLY A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

5.-WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.

STANDARD STORM DRAINAGE DETAIL

PRECAST CATCH BASIN

(D-3)

__REINFORCEMENT AS PER TABLE ON SHEET 2 OF 2

SQUARE TOP

TYPICAL SECTION

REVISED

5/8/2018 9/16/2013 9/26/2012 2/8/2011 3/7/1981

1.- CAST TOP SLAB TO FIT WALL USED.

PPROVE

5/8/2018

MIAMI-DADE

COUNTY

DEPARTMENT OF

TRANSPORTATION AND PUBLIC WORKS

(SEE NOTE 4)

FRAME & GRATE (USF 4700-6223)

__REINFORCEMENT AS PER TABLE ON SHEET 2 OF 2

SD

2.2

SHEET 1 OF 2

ROUND TOP

	ROUND STRUCTURE												
Standard Detail	Dia. (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel					
2.2	3	0.0 - 5.0	6	8 X 8 W20 #4@10"E.W.	8	#4@5" E.W.	8	#4@10" E.W.					
2.2	3	5.1 - 15.0	6	8 X 8 W20 #4@10"E.W.	8	#4@5" E.W.	8	#4@10" E.W.					

MIAMI—DADE COUNTY DEPARMENT OF TRANSPORTATION 5/4/2018 APPROVED AP/4/2018	STANDARD STORM DRAINAGE DETAIL PRECAST CATH BASIN (TYPE D-3)	SD 2.2 SHEET 2 OF 2
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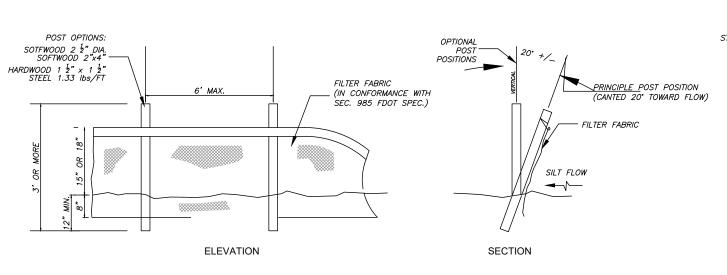
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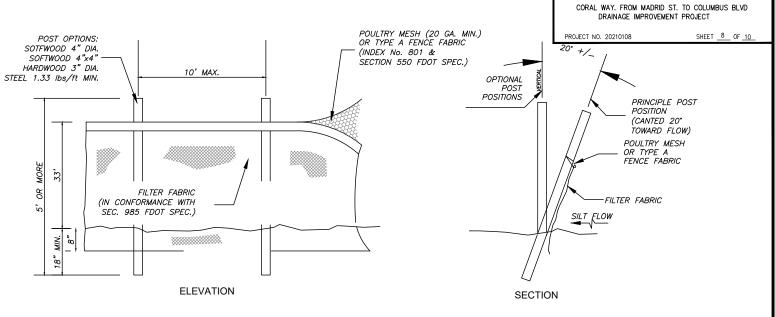
CORAL WAY
FROM MADRID ST TO COLUMBUS BLVD

	NAME	DATE		NAME	DATE	
DESIGNED BY	AC/GC	06/26/2023	DRAWN BY	VET/GC	06/26/2023	міамі-[
CHECKED BY	OER	06/26/2023	CHECKED BY	OER	06/26/2023	COUNTY
SUPERVISED R	Y- OFR					COUNTY

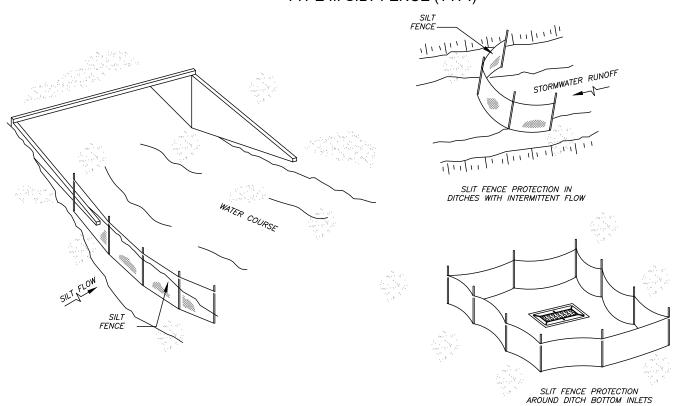
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STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128 MIAMI-DADE

STANDARD DETAILS





TYPE III SILT FENCE (TYP.)

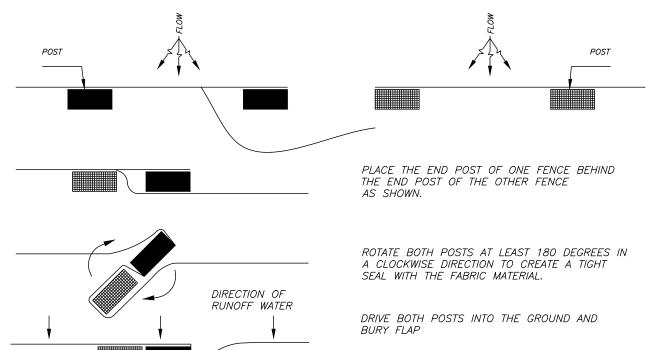




NOTES FOR SILT FENCES:

- 1- TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2-TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.





JOINING TWO SILT FENCES (TYP.)

PLAN VIEW

- 3-DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
- 4—WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

SEDIMENT BARRIERS (TYP.) OR APPROVED ALTERNATIVE

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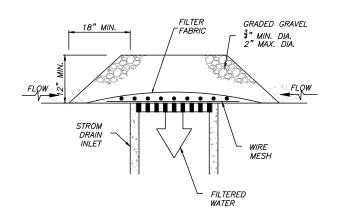
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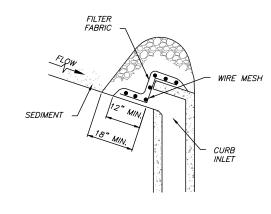
CORAL WAY FROM MADRID ST TO COLUMBUS BLVD

	NAME	DATE		NAME	DATE	
DESIGNED BY	AC/GC	06/26/2023	DRAWN By	VET/GC	06/26/2023	МІАМІ—
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
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111 NOT 357
MANG. FORGOA 33228

SEDIMENTAL BARRIER





DROP INLET PROTECTION-GRAVEL

CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.) OR APPROVED ALTERNATIVE

NOTES FOR INLET PROTECTION GRAVEL:

1- INSTALLATION/APPLICATION CRITERIA:

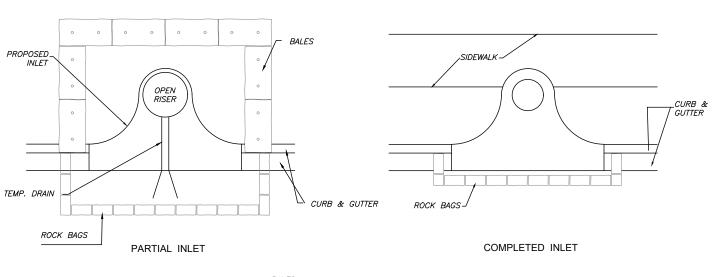
- PLACE WIRE MESH (WITH 1/2 INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- · PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

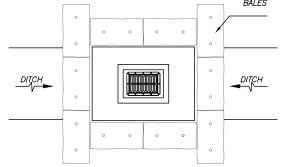
2- MAINTENANCE:

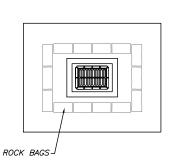
- · INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- · REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- · REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3- LIMITATIONS:

- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- · EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.







DITCH BOTTOM INLET

SWALE INLET

PROTECTION ALONG INLETS WITH ROCK BAGS BALES OR APPROVED ALTERNATIVES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS:

1- TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.

2- BALES SHALL BE ANCHORED WITH TWO (2) 1"x2" (or 1" dia.) x 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.

3-RAILS AND POSTS SHALL BE 2"x4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.

4-ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.

5-WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

INLET PROTECTION SYSTEM (TYP.) OR APPROVED ALTERNATIVE

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CORAL WAY
FROM MADRID ST TO COLUMBUS BLVD

	NAME	DATE		NAME	DATE	
DESIGNED BY	AC/GC	06/26/2023	DRAWN By	VET/GC	06/26/2023	MIAMI-DA
CHECKED BY	OER	06/26/2023	CHECKED BY	OER	06/26/2023	COUNTY
SUPERVISED B	Y: OFR					COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION

INLET PROTECTION SYSTEM

NARRATIVE DESCRIPTION

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE DESCRIPTION CONTAINS REFERENCES TO THE CONTRACT DOCUMENTS, THE FDOT DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF SEVERAL ITEMS INCLUDING: THIS NARRATIVE DESCRIPTION, THE REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN (ECP) PREPARED AND SUBMITTED IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION

- A. NATURE OF CONSTRUCTION ACTIVITIES: PROJECT CONSIST OF RETROFITTING THE DRAINAGE INFRASTRUCTURE OF A RESIDENTIAL AREA.
- B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL PROVIDE IN THE ECP A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. EACH CONSTRUCTION PHASE REQUIRES THE INSTALLATION OF PERIMETER CONTROL, AFTER CLEARING AND GRUBBING AS NECESSARY FOR THE INSTALLATION OF TO BEGINNING ANY WORK. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.
- 1) CLEARING AND GRUBBING, AND EARTHWORK.
- 2) FINAL GRADING AND LANDSCAPING WHERE NECESSARY.

C. AREA ESTIMATES (ACRE)

- 1) TOTAL SITE AREA: 1.40
- 2) TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED: 0.31
- D. EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE AND AN ESTIMATE OF THE SIZE OF THE DRAINAGE AREA FOR EACH DISCHARGE POINT:
- 1) RATIONAL RUNOFF COEFFICIENT
- A) BEFORE: 0.34
- B) DURING: 0.62
- C) AFTER CONSTRUCTION: 0.54
- 2) EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF DISCHARGE FROM THE SITE: ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY REPORT OF DADE COUNTY AREA, FLORIDA, THE SOILS ENCOUNTERED ON THE PROJECT ARE OF URBAN LAND WITH 0 TO 2 PERCENT SLOPES.
- 3) THE SIZE OF THE DRAINAGE AREA FOR EACH OUTFALL
- A) THIS PROJECT HAS NO OUTFALLS.
- E. SITE MAP: THE ASSOCIATED CONSTRUCTION PLAN SHEETS AND CROSS SECTIONS WILL BE USED AS THE SITE MAP. LOCATIONS OF THE REQUIRED INFORMATION ARE DESCRIBED BELOW. THE SHEET NUMBERS FOR ALL ITEMS DISCUSSED ARE IDENTIFIED ON THE COVER SHEET OF THE CONSTRUCTION PLANS AND CROSS SECTIONS PLANS.
- 1) DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES: THE SLOPES OF THE SITE CAN BE SEEN ON THE CONSTRUCTION PLAN SHEETS AND CROSS SECTION PLAN SHEETS.
- 2) AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE CONSTRUCTION PLAN DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- 3) AN OUTLINE OF AREAS WHICH MAY NOT BE DISTURBED: THESE AREAS OF THE PROJECT OUTSIDE THE CLEARING AND GRUBBING AND CONSTRUCTION ACTIVITIES WHICH ARE COMPRISED OF THOSE THAT ARE NOT SUBJECT TO ANY SOIL DISTURBING ACTIVITIES.
- 4) THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN:TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AT ALL LOCATIONS WHERE DISTURBANCE OF SOLIDS WILL OCCUR. ADDITIONAL MEASURES MAY BE REQUIRED AS NECESSARY WHERE STORMWATER RUNOFF HAS THE POTENTIAL TO REACH SURFACE WATERS OR OFFSITE STORMWATER COLLECTION FACILITIES.
- 5) THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, WETLANDS AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER OR MS4: AREAS OF PERMANENT STABILIZATION ARE SHOWN ON THE CONSTRUCTION PLAN SHEETS AND CONSTRUCTION DETAIL SHEETS.

F. DISCHARGE POINT(S

1) NOT APPLICABLE TO THIS PROJECT.

2. CONTROLS

- A. EROSION AND SEDIMENT CONTROLS: THE CONTRACTOR SHALL DESCRIBE IN THE ECP THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE ECP, SUBJECT TO APPROVAL BY THE ENCINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER MANAGEMENT PRACTICES. FOR EACH CONSTRUCTION PHASE INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED. IN ADDITION:
 - . FURNISH AND PLACE ROLLED EROSION CONTROL MEASURES TO CONTROL EROSION AND SILTATION.
 - . INSTALL SOIL TRACKING PREVENTION DEVICES (STPDS) AT ALL COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE.
 - . SILT FENCE SHALL BE INSTALLED AND AT THE TOE OF SLOPE OF EMBANKMENTS PER FDOT DESIGN INDEX 102 AND AT LOCATIONS AS DESCRIBED IN THE EROSION AND SEDIMENT CONTROL DETAILS.
 - . SEDIMENT FILTERS SHALL BE FOR ALL EXISTING INLETS SUBJECT TO SEDIMENT RUNOFF.
 - . EROSION CONTROL MATS MAY BE UTILIZED AS AN EXTRA MEASURE OF PROTECTION FOR EMBANKMENT OR BERM CONSTRUCTION TO PREVENT EROSION.
 - . CLEARING AND GRUBBING OPERATIONS WILL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.
 - . EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE THE MATERIAL COULD BE WASHED AWAY BY HIGH WATER, RAIN OR STORMWATER RUNOFF. STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT DEVICES.

- 1) STABILIZATION PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE FINGINFER.
- A) TEMPORARY: INCLUDES SOD, MULCH, AND ARTIFICIAL COVERINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- B) PERMANENT: INCLUDES ASPHALT OR CONCRETE SURFACE, SOD.
- 2) STRUCTURAL PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL AND TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLIDE AT LEAST THE FOLLOWING. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- A) TEMPORARY: INCLUDES SILT FENCE, SYNTHETIC BALES AND ROCK BAGS PER FDOT DESIGN INDEX 102 AND THE CONTRACT DOCUMENTS; SOIL TRACKING PREVENTION DEVICES PER FDOT DESIGN INDEX 106 AND THE CONTRACT DOCUMENTS. SEE EROSION AND SEDIMENT CONTROL DETAILS FOR MORE INFORMATION. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY.
- B) PERMANENT: INCLUDES RETAINING WALLS.
- B. PERMANENT STORMWATER MANAGEMENT CONTROLS: STORMWATER RUNOFF WILL BE CONVEYED IN A ROADSIDE CURB AND GUTTER AND EXFILTRATION TRENCH.
- C. CONTROL FOR OTHER POTENTIAL POLLUTANTS: THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE:
- 1) WASTE DISPOSAL: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:
- A) THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT BE LIMITED TO, VEGETATION FROM CLEARING AND GRUBBING ACTIVITIES, PACKAGING MATERIALS, SCRAP BUILDING MATERIALS, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PSTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS. CONTRACTOR SHALL DESIGNATE A WASTE COLLECTION AREA ONSITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.
- B) SANITARY/SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.
- C) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH LIDS AT THE STAGING, STOCKPILE AND FIELD OFFICE AREAS (AS APPLICABLE). WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.
- 2) OFF-SITE VEHICLE TRACKING & GENERATION OF DUST: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- A) STABILIZING CONSTRUCTION ENTRANCES AS NECESSARY ACCORDING TO FDOT DESIGN STANDARD 106.
- B) THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORMWATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.
- C) REMOVING EXCESS DIRT FROM ROADS DAILY.
- D) USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.
- E) STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFF-SITE TRACKING.
- F) LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY.
- 3) STATE OR LOCAL REGULATIONS: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.
- 4) APPLICATION OF FERTILIZER AND PESTICIDES
- A) THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURER RECOMMENDED METHOD AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS.
- B) HERBICIDES AND PESTICIDES SHALL BE STORED ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.
- 5) TOXIC SUBSTANCES AND MATERIALS
- A) IN THE ECP, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES AND MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.
- B) CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS. SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORMWATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURER RECOMMENDED METHOD.
- C) CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIALS SPILL CONTROL PLAN IN ORDER TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS.
- D) PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT SURROUNDING CONTAINER.

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- E) TOXIC/HAZARDOUS MATERIALS EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLED PER THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS.
- D. APPROVED STATE AND LOCAL PLANS AND PERMITS
- 1) FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
- 3. MAINTENANCE: IN THE ECP, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:
 - A. SILT FENCE—TWELVE (12) MONTHS, OR AS REQUIRED, REPLACEMENT INTERVAL IN ACCORDANCE WITH CONTRACT'S SPECIFICATIONS.
- B. TURBIDITY BARRIER-AS REQUIRED. REPLACE WHEN DAMAGE TO CURTAIN RENDERS IT INEFFECTIVE (I.E. TORN, UNREPAIRABLE).
- C. SEDIMENT FILTERS AT INLETS-CHECK AGGREGATE AFTER RAINFALL EVENTS. CLEAN AGGREGATE IF CLOGGING OCCURS
- D. THE MAINTENANCE OF THESE DEVICES SHALL OCCUR UNTIL THE ENGINEER HAS DEEMED AN AREA PERMANENTLY STABILIZED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE EROSION AND SEDIMENT CONTROL DEVICES ONCE THEY HAVE SERVED THEIR PURPOSE.

4. INSPECTION

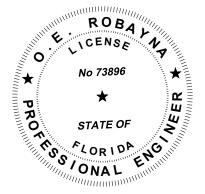
- A. THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT DAILY VISUAL INSPECTIONS OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES ALONG THE PROJECT CORRIDOR. THE CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE THESE TIFLES AS NECESSARY.
- B. THE ENGINEER SHALL HAVE AN INSPECTOR REVIEW THE PROJECT'S TEMPORARY AND PERMANENT EROSION CONTROL MEASURES FOR THE ITEMS LISTED BELOW AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. A WRITTEN INSPECTION REPORT (FORM ATTACHED) IS REQUIRED EVERY SEVEN CALENDAR DAYS OR WITHIN 24 HOURS OF THE END OF A STORM THAT DEPOSITS 0.5 INCHES OF RAIN OR GREATER.
- 1) POINTS OF DISCHARGE TO MUNICIPAL SEPARATED STORM SEWER SYSTEMS
- 2) DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED
- 3) AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
- 4) STRUCTURAL CONTROLS
- 5) STORMWATER MANAGEMENT SYSTEMS
- 6) LOCATIONS WHERE VEHICLES ENTER OR EXIT THIS SITE
- 7) CHECK THAT THE APPROVED OR REVISED EROSION CONTROL PLAN IS FOLLOWED
- 8) WHERE SITES HAVE BEEN STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.
- C. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.
- D. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5. NON-STORMWATER DISCHARGES

- A. IN THE ECP, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION FROM THESE NON-STORMWATER DISCHARGES.
- B. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT THE MIAMI-DADE DEPARTMENT OF ENVIRONMENTAL RESOURCES (DERM) COMPLIANCE DESK, AT (305) 372-6955.

6. CONTRACTOR/SUBCONTRACTOR CERTIFICATION.

A. FOR EACH MEASURE IDENTIFIED IN THE SWPPP, THE CONTRACTOR AND/OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT THE MEASURE MUST SIGN A COPY OF THE CERTIFICATION STATEMENT, PROVIDED IN APPENDIX A OF THE SWPPP, PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITIES AT THE SITE.



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AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

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DEPARTMENT OF TRANSPORTATIO

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HIGHWAY DIVISION

STEPHEN P. CLARK CENTER

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STORMWATER POLLUTION PREVENTION PLAN

