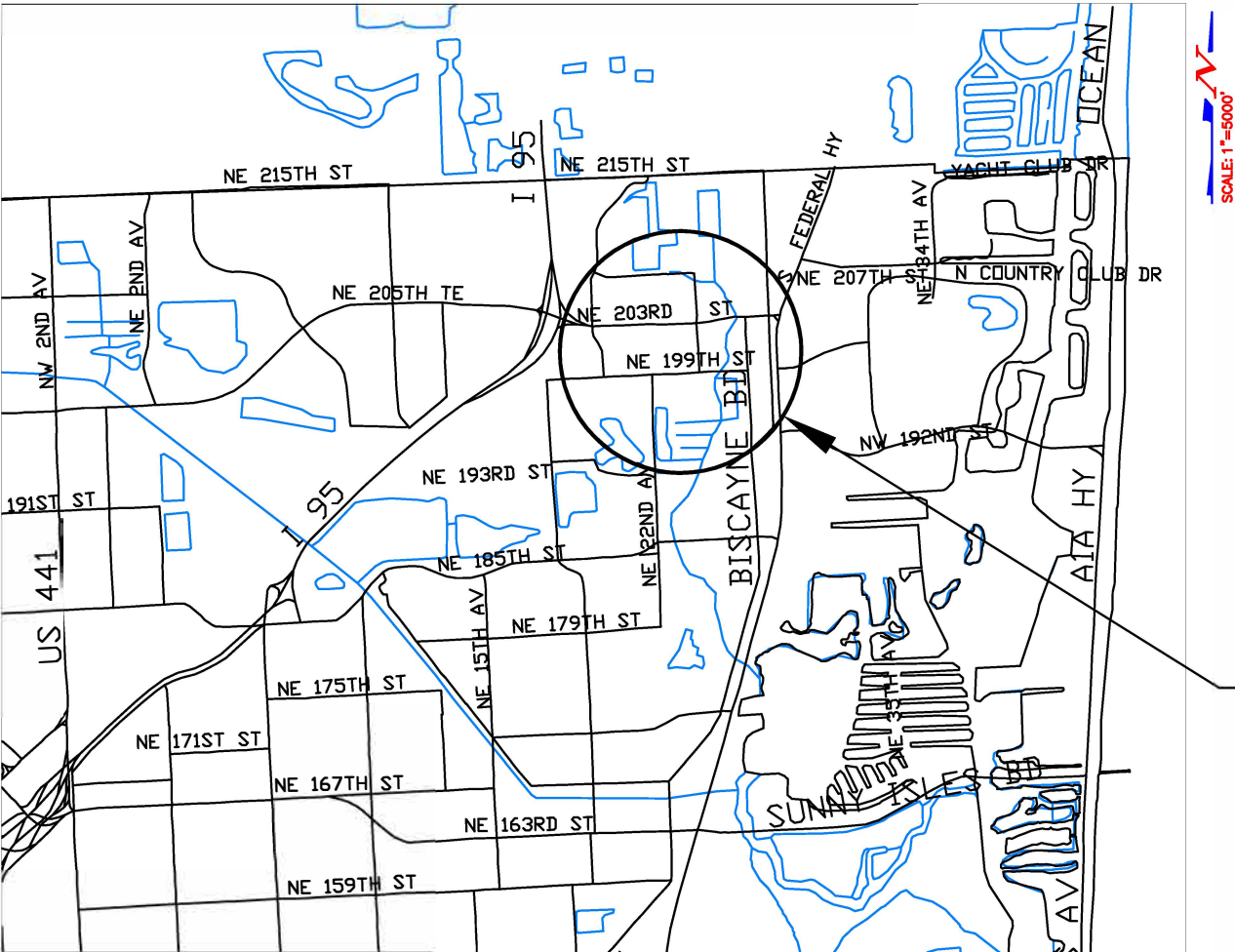


PLANS FOR PROPOSED
DRAINAGE IMPROVEMENTS TO
ENCHANTED LAKE Sec. 2
N.E. 201 ST. & N.E. 202 ST. from N.E. 25 CT. to N.E. 26 AVE.
and N.E. 25 CT. from N.E. 201 ST. to N.E. 202 ST.

INDEX OF SHEETS

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

MIAMI-DADE COUNTY PROJECT NO. 20200298
FUNDING SOURCE: STORMWATER UTILITY (SWU)



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.

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.

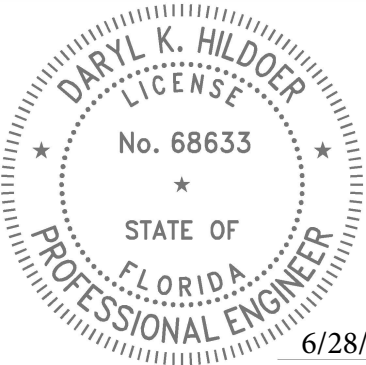


PREPARED BY



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



6/28/2022

THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY DARYL K. HILDOER, P.E.
ON THE DATE ADJACENT TO THE SEAL.

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DESIGN	J.C.	CHECK	F.G.
		DRAWN	I.I.
DATE	05-21-21	SHEET	1 OF 11

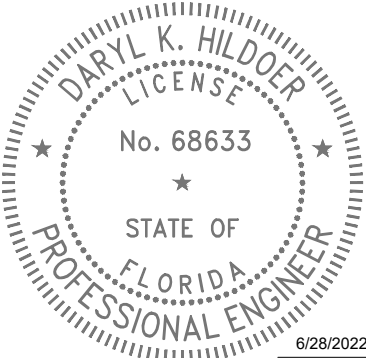
GENERAL NOTES:

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 ENGINEER.
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 PAVEMENT.
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 IS TEMPORARLY 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.
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 JURIDICITION 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 TRAFFIC.
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 DOWN.
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 THE WORK.
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 BEING DONE.
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 WORK.
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. 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.
42. CONTRACTOR TO INSTALL ½" 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 "V" 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 ENGINEER.



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R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

ENCHANTED LAKE Sec. 2

	NAME	DATE		NAME	DATE
DESIGNED BY	J.C.		DRAWN BY	U.	05-21-21
CHECKED BY	F.G.		CHECKED BY		
SUPERVISED BY:					



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1ST
MIAMI, FLORIDA 33138

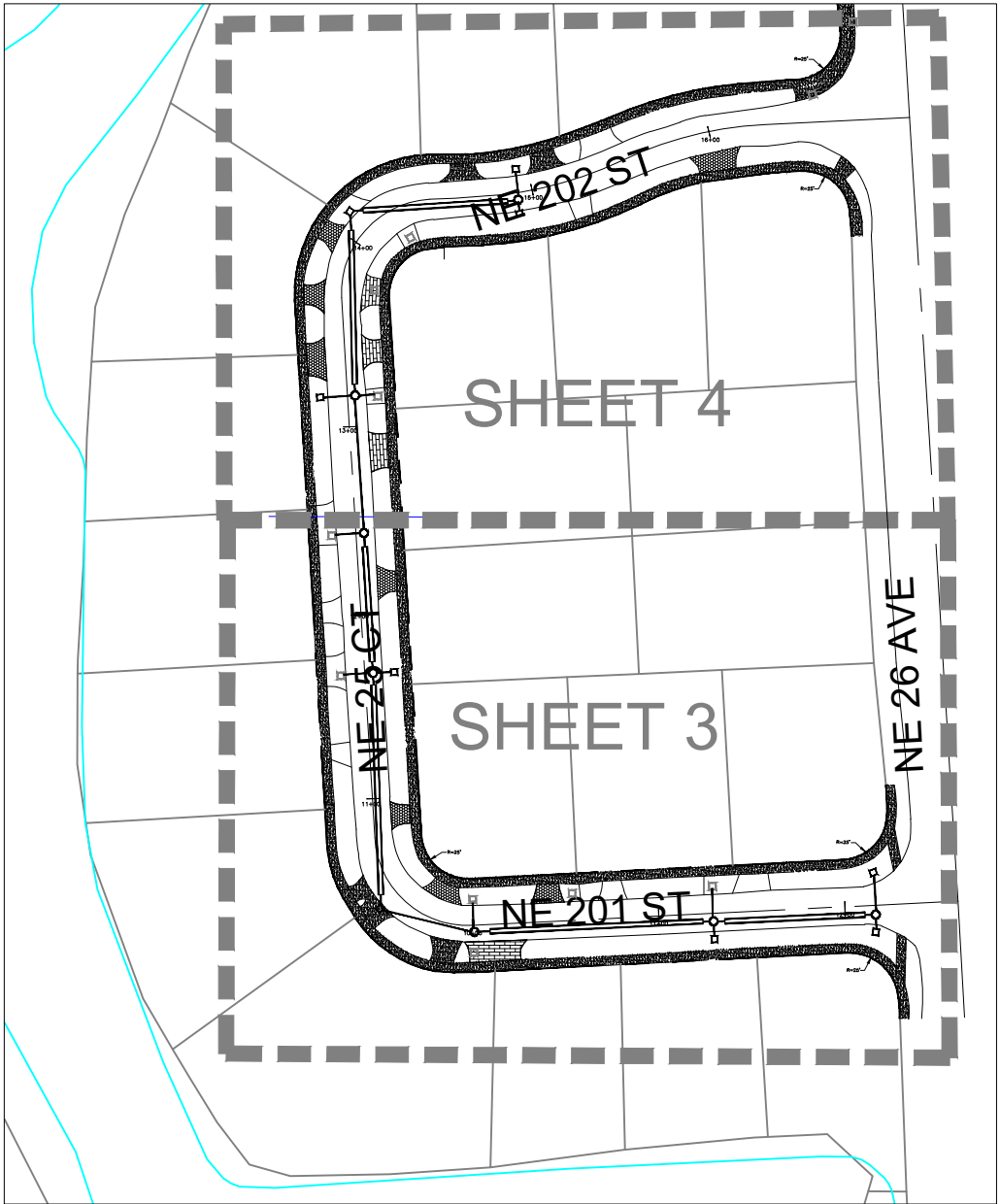
GENERAL NOTES

SURVEYOR'S NOTES:

- Survey performed by DTPW Survey Section.
- Survey as per F.B. 2963 Page 69-73
- The elevations are based on NGVD 1929, Miami Dade County
B.M. Name = N-3106-R-M.D.C. B.M. ELEVATION=4.69'.
NE 199 ST = 52' S of C/L; NE 26 AVE = 25' W of C/L
PK Nail & Brass Washer on Concrete Sidewalk
B.M. Name=N-3105-M-D.C. B.M. ELEVATION=9.11'.
- Section 33, Township 51 , Range 42.
- Benchmark for vertical control information was recorded by DTPW Survey Section.
- Right-of-Way Lines shown hereon as per existing plats.

LOCATION MAP
& KEY MAP

KEY SHEET
TRS 51-42-33



LEGEND AND ABBREVIATIONS:

- AVOCADO TREE
- ARECA TREE
- AUST. PINE TREE
- ALMOND TREE
- BLACK OLIVE TREE
- BOTTLE BRUSH TREE
- BISMARCK PALM
- BUSH TREE
- BISCHOFIA TREE
- BOTTLE PALM
- BANANA TREE
- BANYAN TREE
- BRAZILIAN PEPPER
- CABBAGE TREE
- COCONUT TREE
- CLUSTER PALM
- CYPRESS TREE
- CANARY PALM
- COCOS PLUMOSA
- CACTUS
- DATE PALM
- FICUS TREE
- FLORIDA ORCHID TREE
- FOX TAIL TREE
- GUMBO LIMBO TREE
- HIBISCUS TREE
- IXORA TREE
- JUNIPER TREE
- JARACANDA TREE
- KAPOK TREE
- LIVE OAK TREE
- MAMEY TREE
- 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
- RHOBINI 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
- WASHINGTON PALM
- ZAPODILLA TREE
- HEDGES

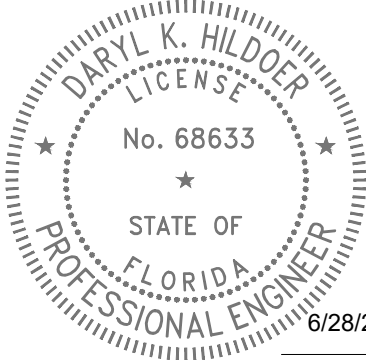
- (M) = MEASURES
- (P) = By PLAT
- F; Fd = FOUND
- CND = CONCRETE NAIL & DISK
- PKF = PK NAIL FOUND
- CNDF = CONCRETE NAIL & DISK FOUND
- CNF = CONCRETE NAIL & DISK FOUND
- CNC = CONCRETE NAIL CUT
- DHF = DRILL HOLE FOUND
- NF = NAIL FOUND
- PKDF = PK NAIL & DISK FOUND
- R/W = RIGHT OF WAY
- RBAC = ROCK BASE ASPHALT COMPOUND
- BL = BASE LINE
- CL = CENTER LINE
- R = RADIUS
- L = LENGTH OF CURVE
- C&G = CURB & GUTTER
- VG = VALLEY GUTTER
- E/P = EDGE OF PAVEMENT
- T/B = TOP OF BANK
- E/W = EDGE OF WATER
- PCP = PERMANENT CONTROL POINT
- RLS = REGISTERED LAND SURVEYOR
- PLS = PROFESSIONAL LAND SURVEYOR

- STREET SIGN
- ALUM. FLASHING SCHOOL LIGHT
- MAILBOX
- DECORATIVE LIGHT POLE
- METAL LIGHT POLE
- METAL TRAFFIC LIGHT POLE
- METAL POWER POLE
- CONCRETE LIGHT POLE
- CONCRETE POWER POLE
- WOOD LIGHT POLE
- WOOD POWER POLE
- WOOD TELEPHONE POLE
- FIBERGLASS LIGHT POLE
- WATER MANHOLE
- SANITARY MANHOLE
- SANITARY SEWER VALVE (FM)
- CABLE TV PEDESTRIAN
- TV CABLE RISER BOX
- TV CONTROL BOX
- CABLE BOX
- TELEPHONE HANDHOLE
- TELEPHONE MANHOLE
- TELEPHONE UTILITY BOX
- TELEPHONE RISER BOX
- TELEPHONE RISER CONTROL BOX
- TELEPHONE CONTROL BOX
- BOX
- CROSSING SIGN
- POST
- INTERCOM
- GAS VALVE
- PVC POST
- GUY WIRE
- SPRINKLE HEAD
- CENTRAL ANGLE OF CURVE
- MONITORING WELL
- PETROLEUM PIPELINE
- ELECTRIC HANDHOLE
- ELECTRIC MANHOLE
- FIRE HYDRANT
- WATER VALVE
- WATER METER

- R/W EXISTING
- SECTION LINE
- QUARTER SECTION LINE
- EASEMENT LINE
- BARBWIRE FENCE
- EDGE OF THE PAVEMENT
- PROPERTY LINE
- SECTION
- MONUMENT LINE
- PAVEMENT
- ASPHALT
- RADIUS
- LENGTH
- CENTRAL ANGLE OF THE CURVE
- POINT OF TANGENCY
- POINT OF INTERSECTION
- POINT OF CURVATURE

- TRAFFIC SIGN MANHOLE
- TRAFFIC SIGN HANDHOLE
- TRAFFIC CONTROL BOX
- TRAFFIC SIGNAL BOX
- ELECTRICAL CONTROL BOX
- RAIL ROAD CROSSING (LIGHT)
- CONCRETE
- ASPHALT
- UNIMPROVED DRIVEWAY
- GRAVEL
- BRICK
- STAMPED CONCRETE
- CONCRETE BLOCK FENCE
- TREE DIAMETER
- EXISTING CATCH BASIN
- EXISTING STORMWATER MANHOLE

- WOOD FENCE
- CHAIN LINK FENCE
- IRON FENCE
- EXISTING SIDEWALK
- F.P.L. OVERHEAD
- F.P.L. UNDERGROUND
- WATER LINE MAIN
- GAS MAIN
- FORCE MAIN
- CABLE TV
- BELL SOUTH TELEPHONE CONDUIT
- BASELINE
- SANITARY SEWER



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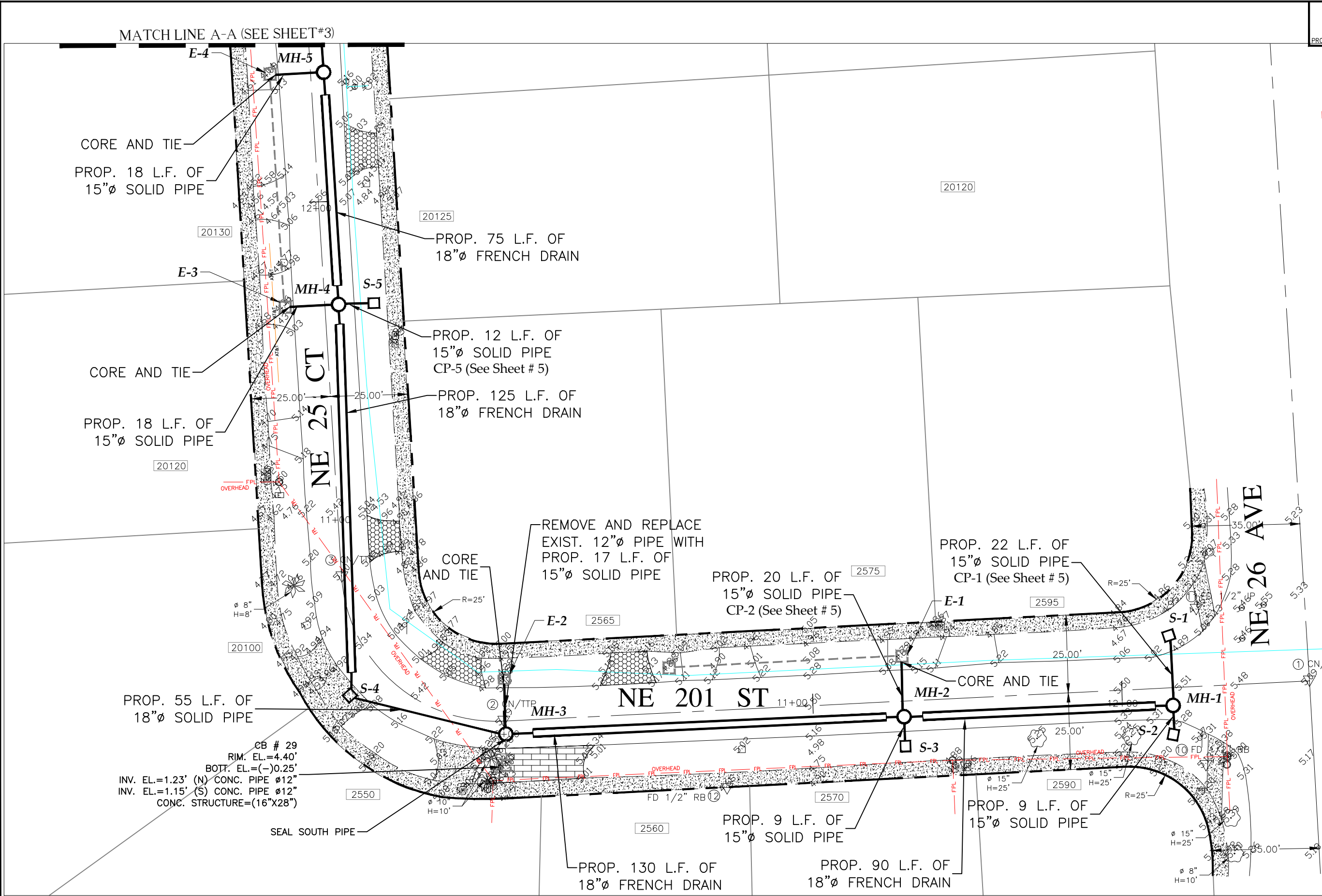
REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

ENCHANTED LAKE Sec.2

NAME	DATE	NAME	DATE
DESIGNED BY J.C.		DRAWN BY I.L.	5-21-21
CHECKED BY F.G.		CHECKED BY	
SUPERVISED BY			

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION STEPHEN P. CLARK, CENTER 1111 NW 1 ST MIAMI, FLORIDA 33128

SURVEYOR'S NOTES, KEY SHEET
LEGEND AND ABBREVIATIONS



SCALE: 1"=30'

DARYL K. HILDOER
LICENSE
No. 68633
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
6/28/2022

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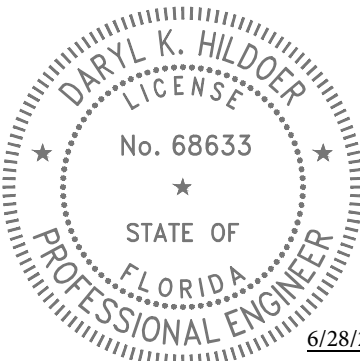
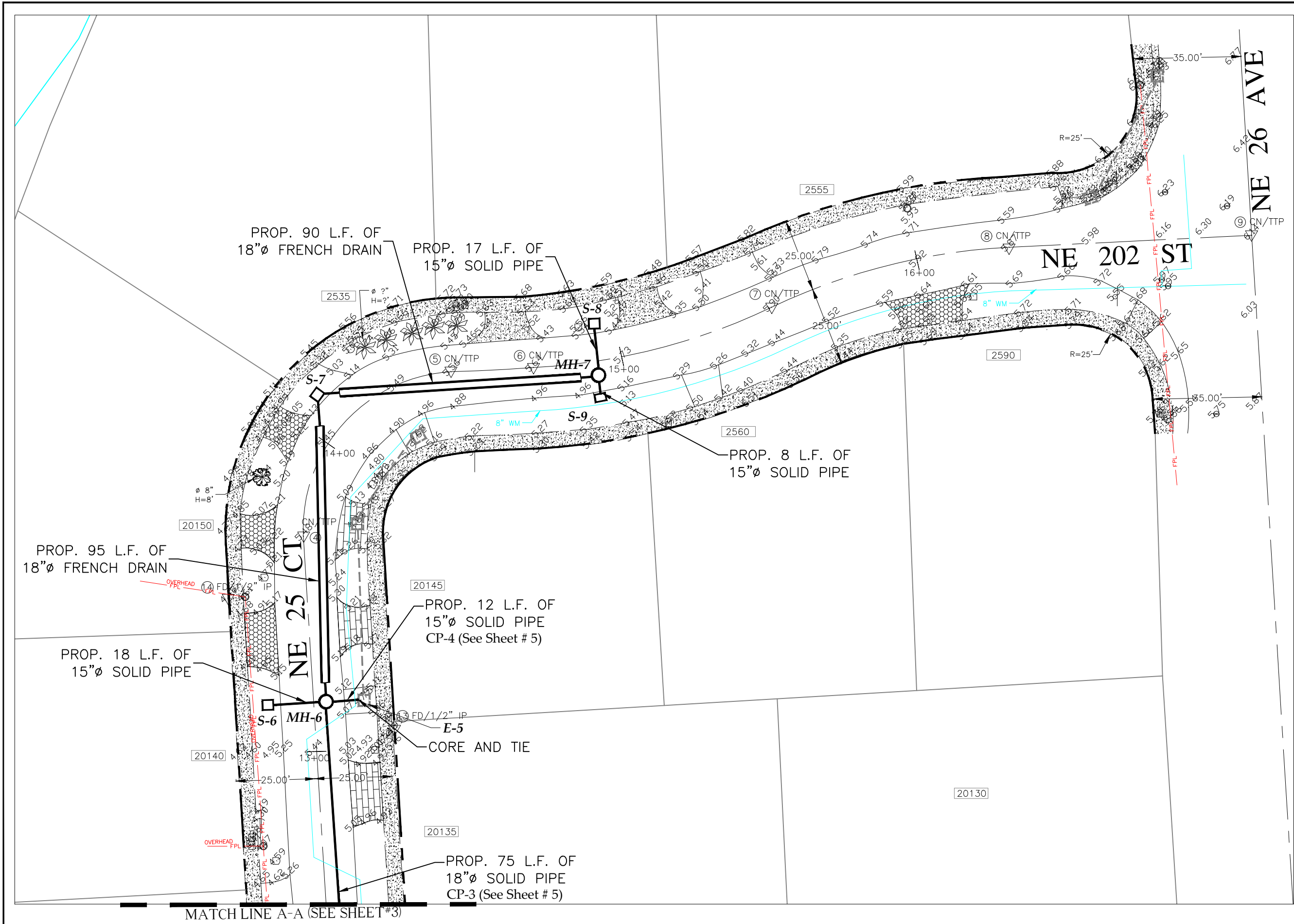
ENCHANTED LAKE Sec.2

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	J.C.				
CHECKED BY	F.G.		CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE
COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CENTER
1111 NW 1ST ST
MIAMI, FLORIDA 33128

DRAINAGE PLAN



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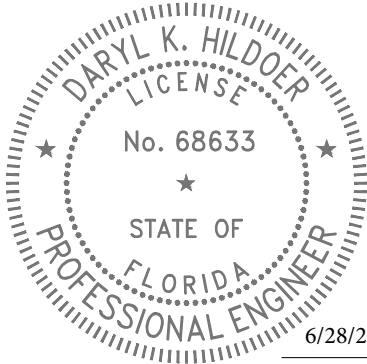
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SUMMARY OF QUANTITIES			
Item No.	Description	Unit	Quantities
102-74-1	Barricades (temporary - Types I, II, VP and Drum)	E.A./day	3600
102-76A	Advance Warning Arrow Panel	E.A./day	360
104-10-3	Sediment Barrier	L.F.	100
104-18	Inlet Protection System	E.A	15
327-70-01	Milling, 1" Average Depth	S.Y.	700
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	985
331-72-10B-HMA	Inlet Pavement (Includes 6" Limerock Base and 1" thick of HMA, Asphalt Work Category 2)	S.Y.	36
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	Ton	100
334-2-13-1A	Driveway Pavement - Asphalt	S.Y.	77
350-1-1A	Driveway Pavement - Concrete	S.Y.	25
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)]	C.Y.	5
425-1-1	Swale Inlet Type D-3 (36" Dia.) (Less than 10 feet deep)	E.A.	6
425-1-2B	Swale inlet Type D-1 (17"x27") (< 10' deep)	E.A.	1
425-1-902	Swale Inlet Type P-10M (Any dimension, maximum 15' deep)	E.A.	2
425-2-41	Manhole (Type P-7T, Any dimension, maximum 15' deep)	E.A.	7
425-79	Core and Tie to exist. drainage structures. (Any pipe size hole opening) (Including mortar seal) (This item is contingent upon field conditions and may increased decreased or eliminated by the Engineer)	E.A.	5
425-82	Modify Structure-Cut to enlarge opening as needed in order to accommodate pipe due to utility conflict(s), brick and mortar as needed	E.A.	2
430-94-1-1	Desilting Pipe, 0 - 48"	L.F.	410
430-95-2	Desilting Drainage Structure	E.A.	9
430-171-115	Pipe Culvert - 15" Diameter (Round)	L.F.	180
430-171-118	Pipe Culvert - 18" Diameter (Round)	L.F.	130
443-70-3-2	French Drain (18" diameter pipe, trench depth 10 ft bls)	L.F.	605
522-1(1)	Concrete Sidewalk (4" thick)(3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	65
522-2	Concrete Sidewalk (6" thick)(3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	50
575-2A	Sodding - St Augustine, or match existing, includes watering and maintenance. Contingent item based on field conditions, may be	S.Y.	650
580-3	Tree protection barricades	L.F.	100
706-1-12	Reflective Pavement Markers (class B, mono or bi-directional , all	E.A.	8
711-11-125	Thermoplastic (White) (Solid) (24")	L.F.	40
711-11-221	Thermoplastic (Yellow) (Solid) (6")	L.F.	200

PROPOSED DRAINAGE STRUCTURE SCHEDULE										
Structure	Station	Type	Inside Dimension	Rim Elevation	Bottom Elevation	Pipe Invert Elevation				Remarks
						N	S	E	W	
S-1	12+16 (17.0' LT)	D-3	36"φ	4.65	-0.60		1.40			
MH-1	12+16 (5.5' RT)	P-7T	42"φ	5.40	-0.60	1.40	1.75		1.40	
S-2	12+16 (15.0' RT)	D-3	36"φ	5.00	-0.25	1.75				
E-1	11+29 (15.0' LT)	EXISTING D-3 36"φ	CORE AND TIE TO THE SOUTH WALL OF THE STRUCTURE				-0.15			EXISTING CB TO REMAIN
MH-2	11+29 (5.5' RT)	P-7T	42" x 42"	5.40	-2.15	-0.15	1.65	1.40	1.40	
S-3	11+29 (15.0' RT)	D-3	36"φ	4.90	-0.35	1.65				
E-2	10+00 (13.0' LT)	EXISTING D-1 17" x 27"	CORE AND TIE TO THE SOUTH WALL OF THE STRUCTURE				1.10			EXISTING CB TO REMAIN
MH-3	10+00 (5.0' RT)	P-7T	48"φ	5.40	-0.90	1.10		1.40	1.20	
S-4	10+45 (13.0' LT)	P-10M	42"φ	4.70	-1.30	0.70		1.20		
S-5	11+65 1(5.0' RT)	D-3	36"φ	4.80	-2.15				-0.15	
MH-4	11+65 (5.0' RT)	P-7T	42" x 42"	5.30	-2.15	1.20	0.70	-0.15	1.15	
E-3	11+65 (13.0' LT)	EXISTING D-1 17" x 27"	CORE AND TIE TO THE EAST WALL OF THE STRUCTURE					1.15		EXISTING CB TO REMAIN
MH-5	12+42 (5.0' RT)	P-7T	42" x 42"	5.30	-2.35	-0.35	1.20		0.85	
E-4	12+42 (13.0' LT)	EXISTING D-1 17" x 27"	CORE AND TIE TO THE EAST WALL OF THE STRUCTURE					0.85		EXISTING CB TO REMAIN
MH-6	13+15 (5.0' RT)	P-7T	42" x 42"	5.25	-2.35	0.90	-0.35	-0.15	1.35	
E-5	13+15 (16.0' RT)	EXISTING D-3 36"φ	CORE AND TIE TO THE WEST WALL OF THE STRUCTURE						-0.15	EXISTING CB TO REMAIN
S-6	13+15 (5.0' RT)	D-3	36"φ	4.60	-0.65			1.35		
S-7	14+10 (14.0' LT)	P-10M	42"φ	4.90	-1.10		0.90	0.90		
MH-8	14+93 (5.0' RT)	P-7T	42"φ	5.40	-1.10	1.95	1.45		0.90	
S-8	14+93 (13.0' LT)	D-3	36"φ	5.20	-0.05		1.95			
S-9	14+93 (5.0' RT)	D-1	17" x 27"	4.70	-0.55	1.45				

CONFLICT TABLE				
Conflict Point	Drainage		Water	
	Invert Elevation	Pipe Dia.	Top Elevation	Pipe Dia.
CP-1	+1.40	15"	+0.84	8"
CP-2	-0.15	15"	+2.28	8"
CP-3	-0.15	15"	+2.27	8"
CP-4	-0.15	15"	+2.30	8"
CP-5	-0.15	15"	+2.27	8"
Elevations of pipes were not provided by the Utility Company, therefore, standard cover was assumed.				
Assumed top and pipe diameter are preceded by an "A". Elevations on table are in NGVD.				



6/28/2022

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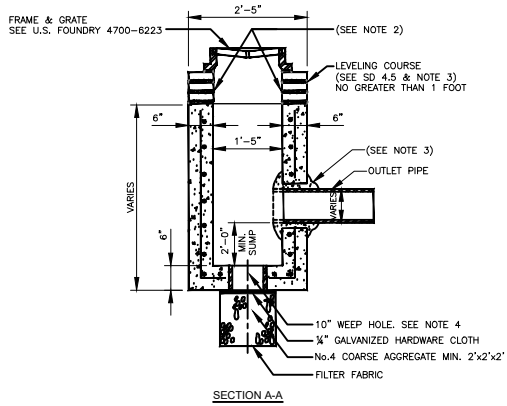
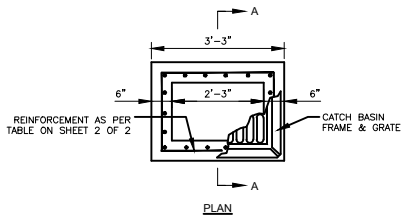
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	NAME	DATE		NAME	DATE
DESIGNED BY	J.C.		DRAWN BY	U.	05-21-21
CHECKED BY	F.G.		CHECKED BY	F.G.	
SUPERVISED BY:					



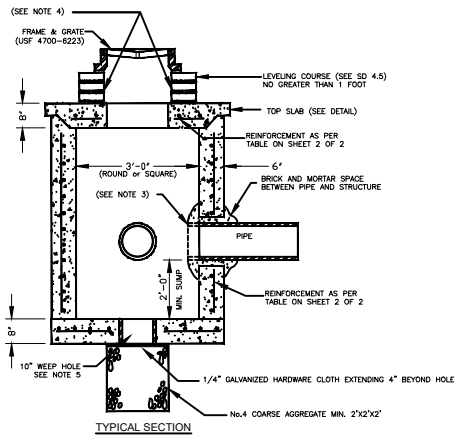
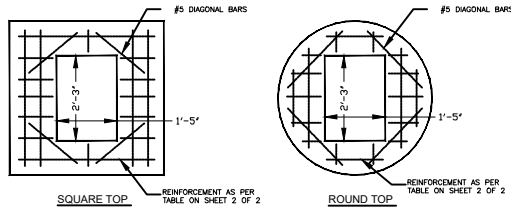
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1ST ST
MIAMI, FLORIDA 33128

PROPOSED DRAINAGE STRUCTURE TABLE, CONFLICT TABLE AND SUMMARY OF QUANTITIES



- NOTES:
- 1.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
 - 2.-USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
 - 3.-A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
 - 4.-WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.
 - 5.-THIS STRUCTURE IS ONLY TO BE USED WHERE UTILITY CONFLICTS DO NOT ALLOW FOR INSTALLATION OF STANDARD STRUCTURES. THE INSTALLATION OF THIS STRUCTURE MUST BE APPROVED BY THE DEPARTMENT.

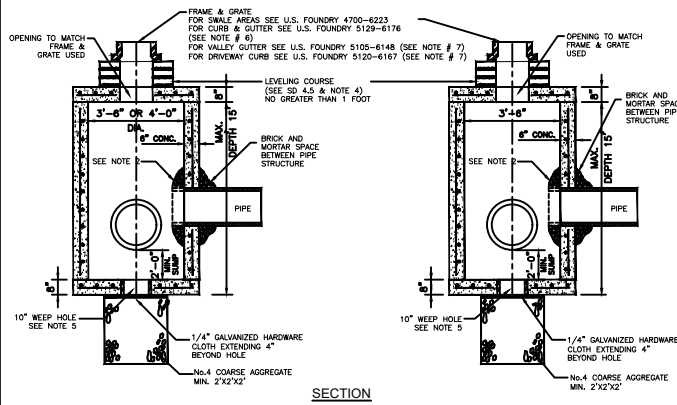
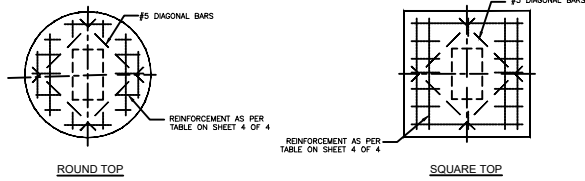
MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	SWALE INLET (TYPE D-1)	3.1
				SHEET 1 OF 2



- NOTES:
- 1.-CAST TOP SLAB TO FIT WALL USED.
 - 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.

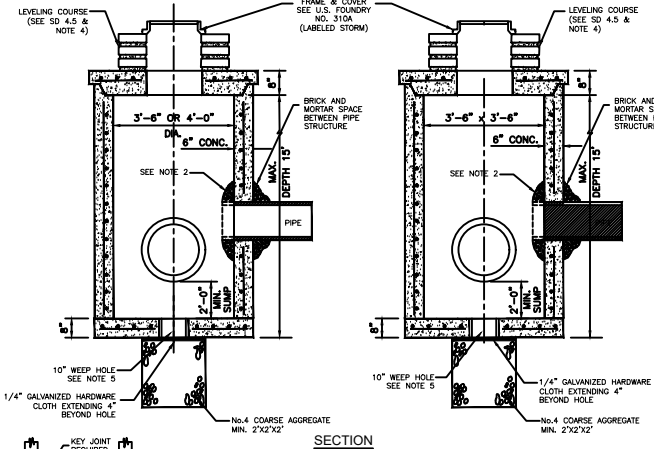
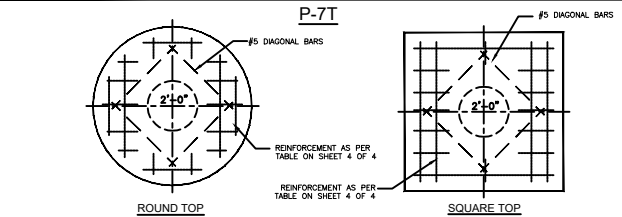
MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	PRECAST CATCH BASIN (D-3)	2.2
				SHEET 1 OF 2

P-10M



- NOTES:
- 1.-CAST TOP SLAB TO FIT WALL USED.
 - 2.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
 - 3.-USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
 - 4.-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.
 - 6.-USE 5120-6176 MAY ONLY BE USED WHEN STRUCTURES ARE TO BE PLACED WITHIN THE RADIUS OF A CORNER AND ITS USE MUST BE APPROVED BY THE DEPARTMENT. THE USE OF THIS FRAME AND GRATE IS NOT INTENDED TO REPLACE STANDARD CURB INLET TOPS. FOR CURB INLETS PLEASE REFER TO FDOT DESIGN STANDARDS INDEX 210 AND 211. INSTALLATION IN OTHER LOCATIONS IS NOT PERMITTED UNLESS APPROVED BY THE DEPARTMENT AS A RESULT OF MITIGATING CIRCUMSTANCES.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 2 OF 4



- NOTES:
- 1.-CAST TOP SLAB TO FIT WALL USED.
 - 2.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
 - 3.-USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
 - 4.-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.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 1 OF 4

RECTANGULAR BOX									
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 Slab Steel
3.1	1.42	2.25	0 - 5.0	6"	#4@10"H #4@10"V	N/A	N/A	6"	#4@12"E.W.
3.1	1.42	2.25	5.1 - 10.0	6"	#4@10"H #4@10"V	N/A	N/A	6"	#4@12"E.W.
3.1	1.42	2.25	10.1 - 15.0	6"	#4@10"H #4@10"V	N/A	N/A	8"	#4@12"E.W.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	SWALE INLET (TYPE D-1)	3.1
				SHEET 2 OF 2

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

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

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	PRECAST CATH BASIN (TYPE D-3)	2.2
				SHEET 2 OF 2

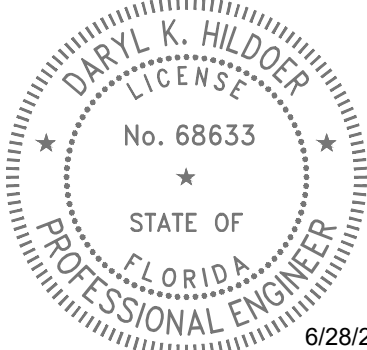
SQUARE STRUCTURE

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

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/9/2018	5/9/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 4 OF 4



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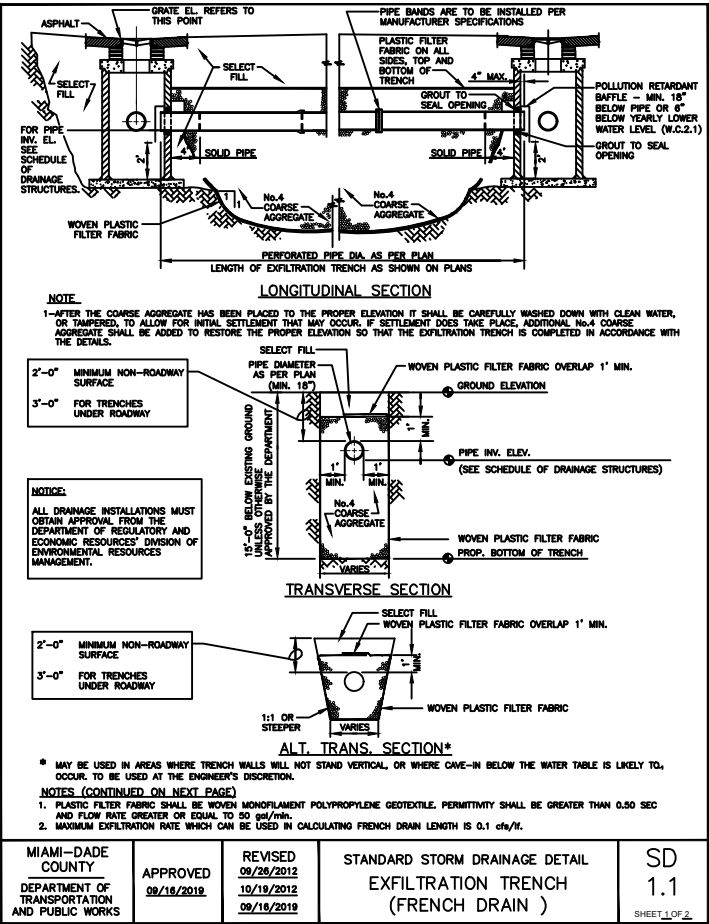
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DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	F.G.			U.	07-10-20
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	F.G.			F.G.	
SUPERVISED BY	NAME	DATE	SUPERVISED BY	NAME	DATE



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1ST AVENUE
MIAMI, FLORIDA 33138

STANDARD DETAILS



- NOTES (CONTINUED)**
3. THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
 4. NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
 5. TYPE 7" S.D. 2.8 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
 6. TYPE 7" S.D. 2.8 STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE.
 7. ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
 8. PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
 9. REEDFIRE GASKET REQUIRED FOR WAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
 10. OIL AND GREASE Baffle IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES, IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
 11. OIL AND GREASE Baffle MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

GENERAL NOTES FOR PIPE CULVERTS

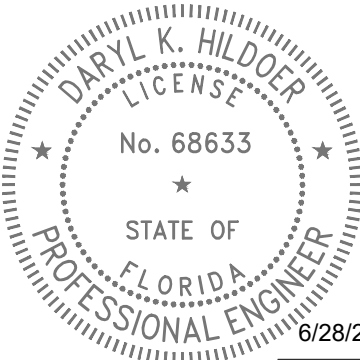
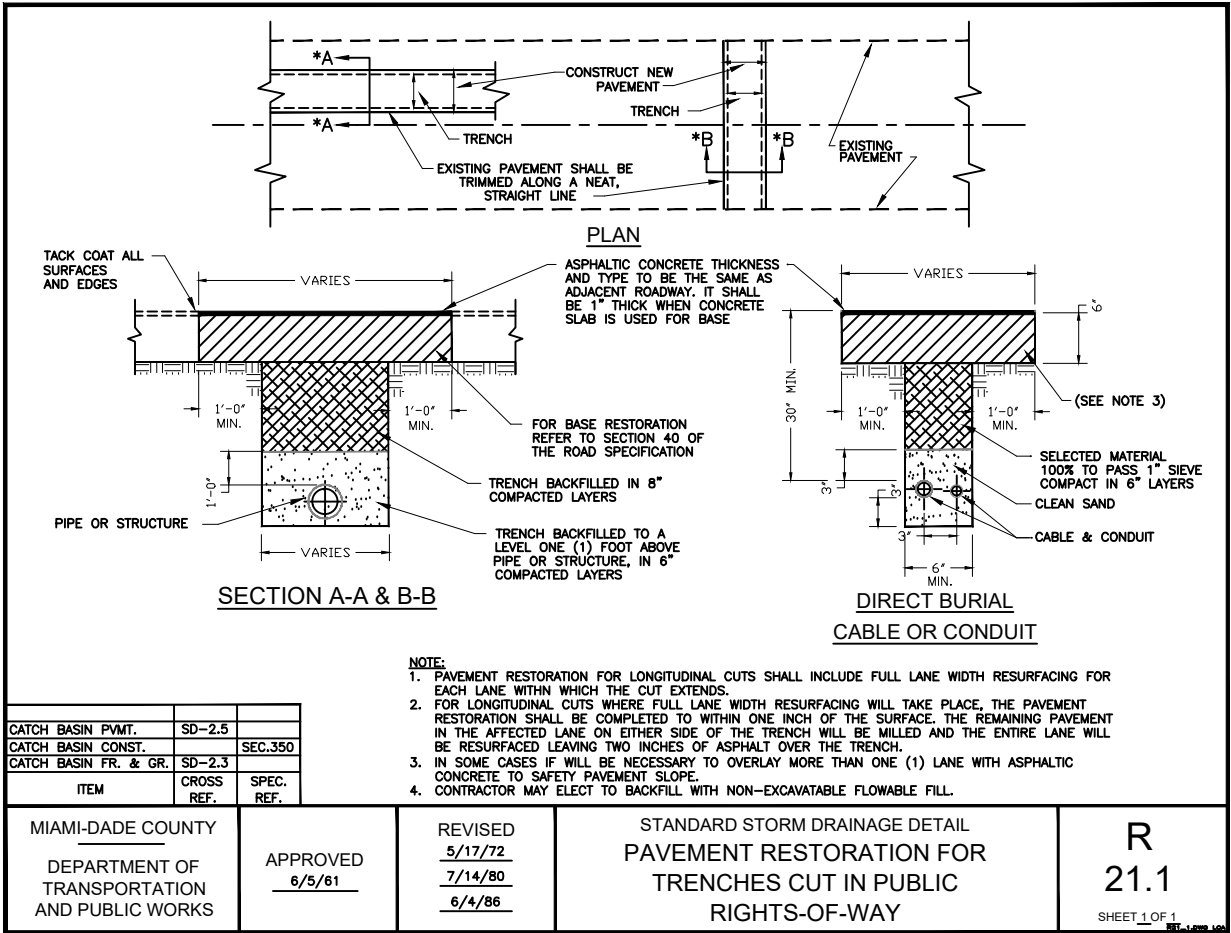
CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FDOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS		
PIPE DIAMETER (inches)	OUTER SHELL	LINER
	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 3/8" 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

NOTE:

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 04/16/2019	REVISED 08-04-88 10-22-13 05-02-81	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1 SHEET 2 OF 2
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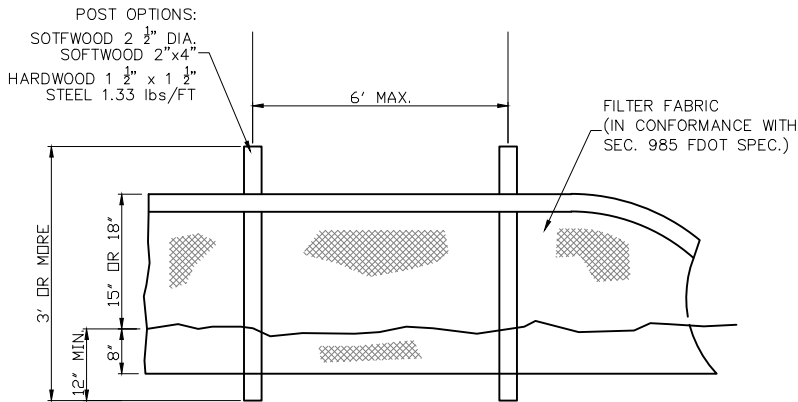
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NAME	DATE	NAME	DATE
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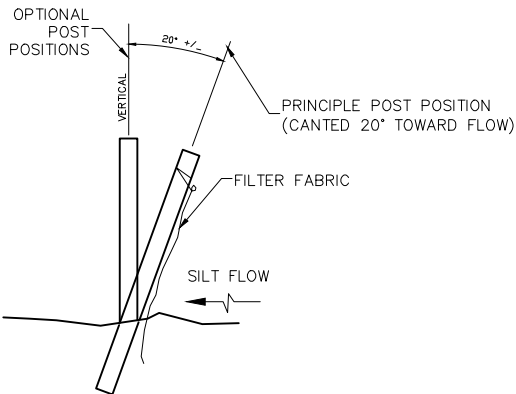


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1ST
MIAMI, FLORIDA 33128

STANDARD DETAILS

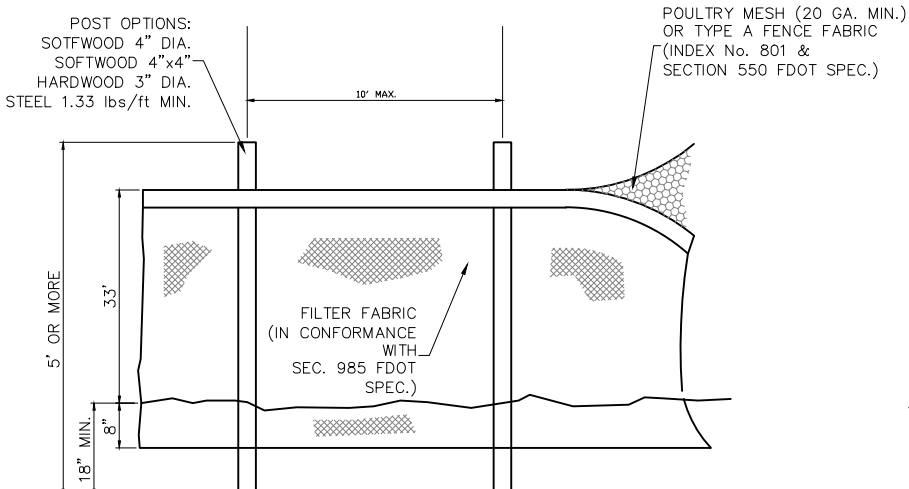


ELEVATION

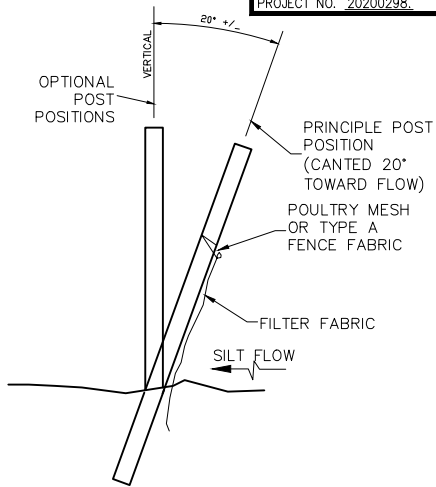


SECTION

TYPE III SILT FENCE (TYP.)

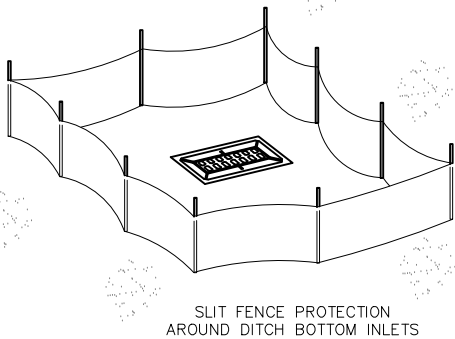
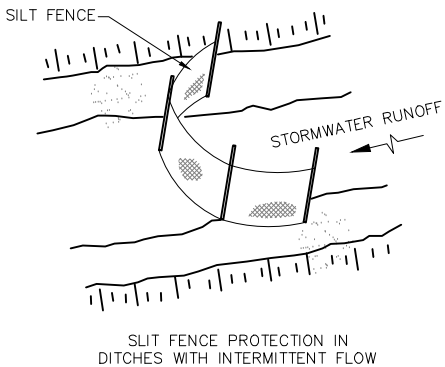
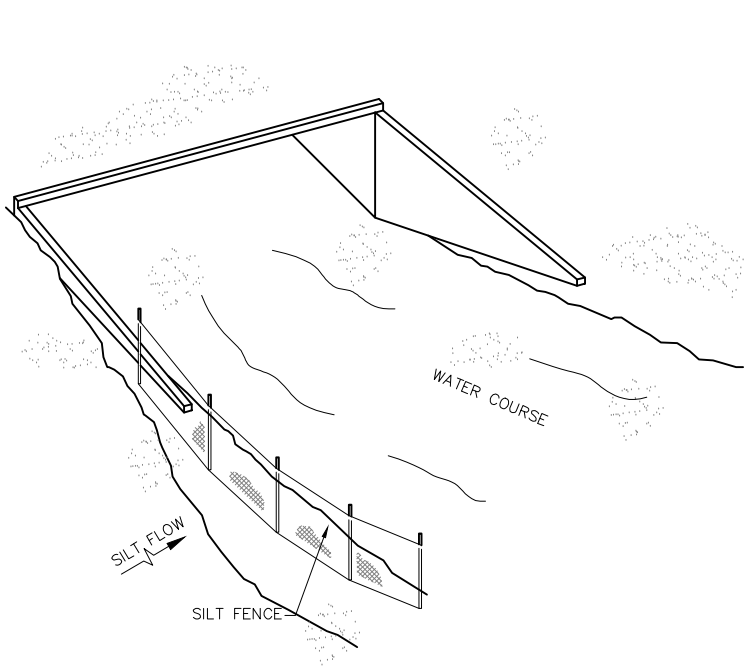


ELEVATION



SECTION

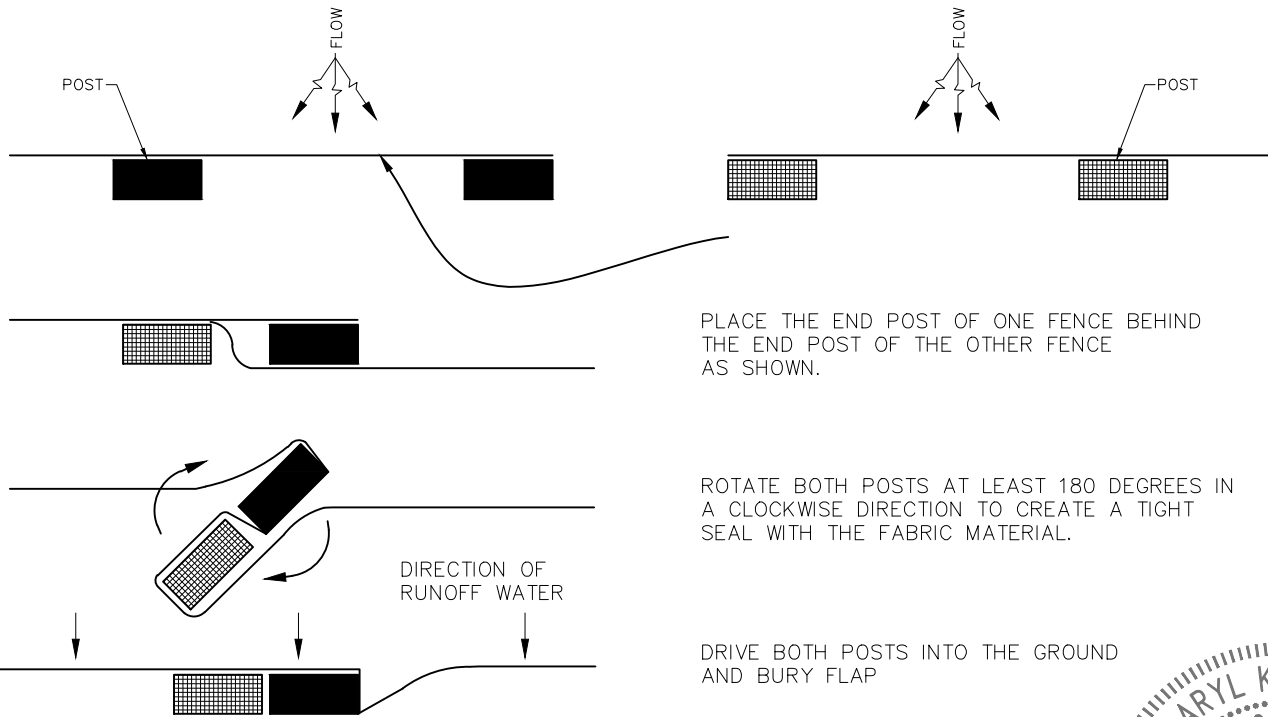
TYPE IV SILT FENCE (TYP.)



SILT FENCE APPLICATIONS (TYP.)

NOTES FOR SILT FENCES:

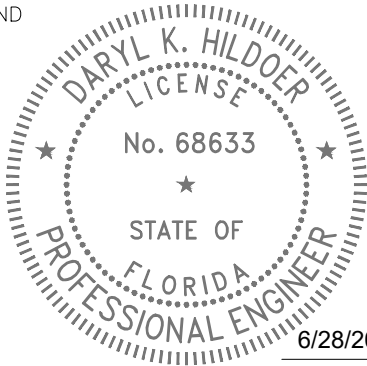
- 1- TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2- TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE 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.



PLANT VIEW
JOINING TWO SILT FENCES (TYP.)

- 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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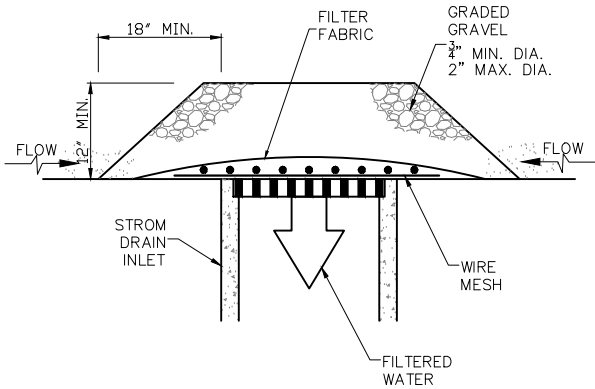
ENCHANTED LAKE Sec.2

NAME	DATE	NAME	DATE
DESIGNED BY J.C.		DRAWN BY U.	05-21-21
CHECKED BY F.G.		CHECKED BY	
SUPERVISED BY:			

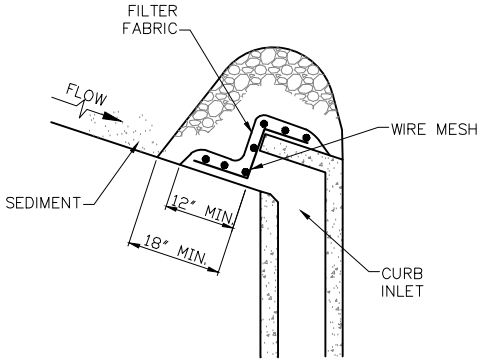


DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1ST ST
MIAMI, FLORIDA 33128

SEDIMENT BARRIERS DETAILS



DROP INLET PROTECTION-GRAVEL



CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.)
OR APPROVED ALTERNATIVE

NOTES FOR INLET PROTECTION GRAVEL:

1— INSTALLATION/APPLICATION CRITERIA:

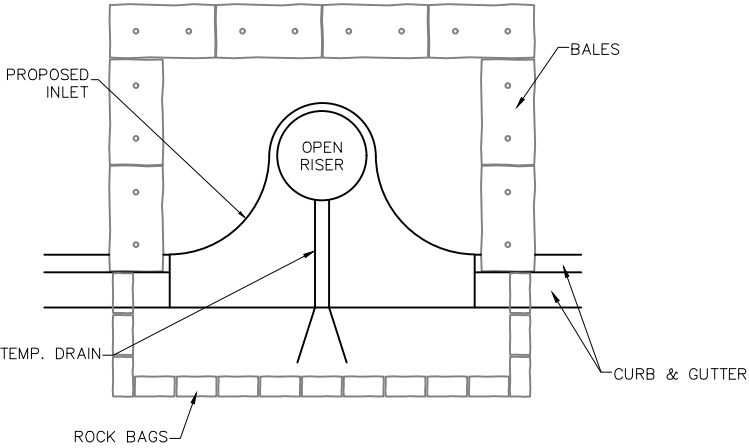
- PLACE WIRE MESH (WITH 1/2 INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18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

2— MAINTENANCE:

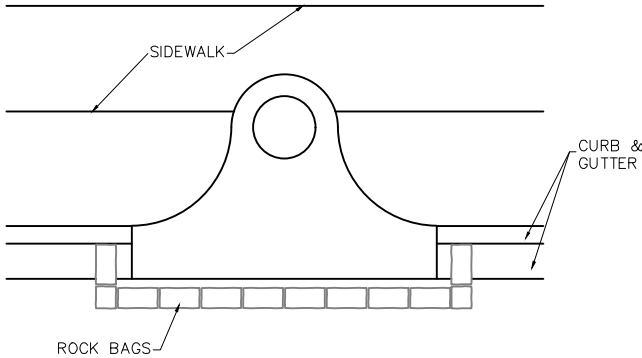
- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3— LIMITATIONS:

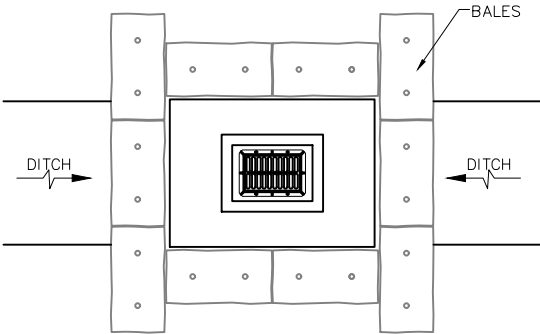
- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.



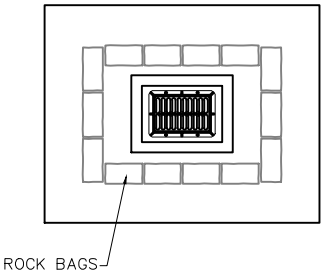
PARTIAL INLET



COMPLETED INLET



DITCH BOTTOM INLET



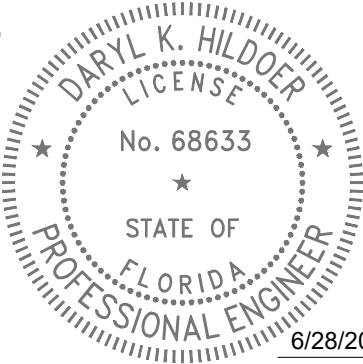
SWALE INLET

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 MAYBE 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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INLET PROTECTION SYSTEMS DETAILS

