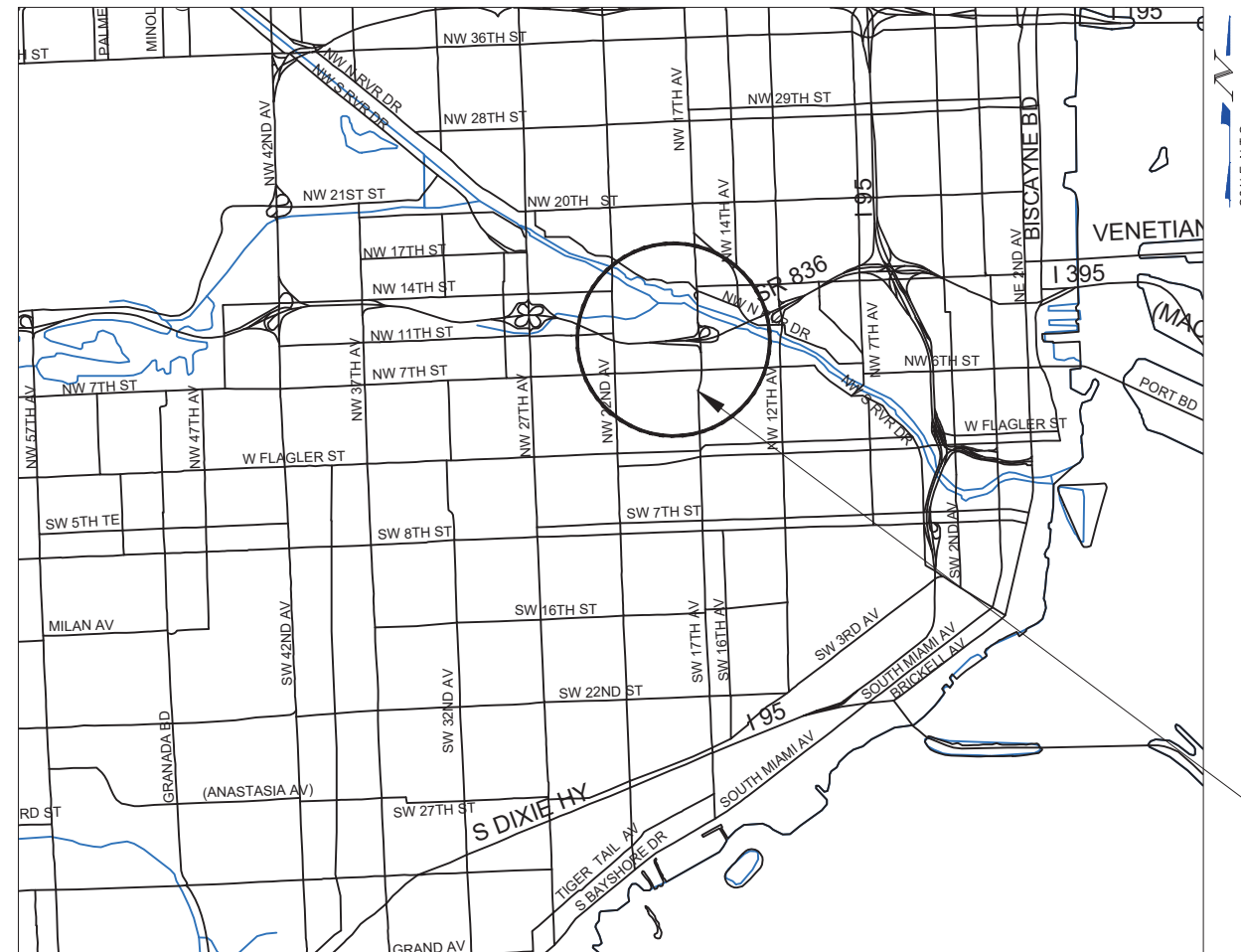


INDEX OF SHEETS

<u>SHT. No.</u>	<u>SHEET DESCRIPTION</u>
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FUNDING SOURCE: STORMWATER UTILITY

- | | |
|---|---|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES |
| 3 | SURVEYOR'S NOTES, KEY SHEET, LEGEND AND ABBREVIATIONS |
| 4 | DRAINAGE PLAN SUMMARY OF QUANTITIES TABLES |
| 5 | CROSS SECTIONS |
| 6 | FLOATING TURBIDITY BARRIERS |
| 7 | INLET PROTECTION SYSTEMS DETAILS |
| 8 | SEDIMENT BARRIERS DETAILS |
| 9 | STORMWATER POLLUTION PREVENTION PLAN |



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.

PROJECT LOCATION

PREPARED BY

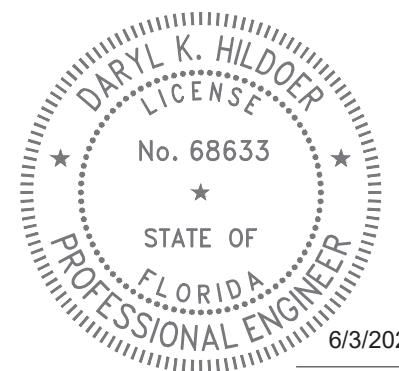
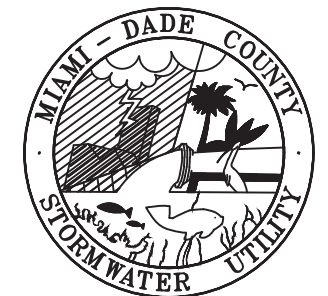


DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION

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

Daryl K Hildoer

Digitally signed
by Daryl K Hildoer
Date: 2024.06.03
13:14:42 -04'00'



6/3/2024

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DESIGN	<u>I.ROBERTO</u>	CHECK	<u>F.GONZALEZ</u>
		DRAWN	<u>M.CEDRON</u>
DATE	<u>11-23-22</u>	SHEET	<u>1</u> OF <u>9</u>

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.



S:\MIDAM\SSBELT\NW 17 AVE OUTFALL RETROFIT\SH-02.dwg Jan 24, 2023 - 9:47am E184376

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.

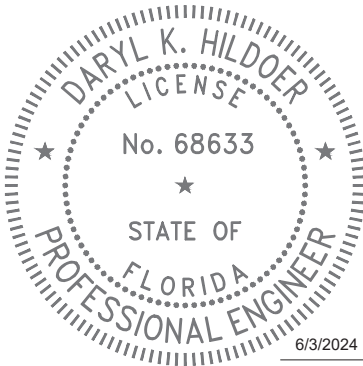
B) MAINTAIN ONE LANE IN EACH DIRECTION FOR TRAFFIC.
24. CONTRACTOR MUST PROVIDE FLASHER ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.
25. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF THE DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA 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.

NW 17 AVE OUTFALL RETROFIT
DRAINAGE IMPROVEMENT PROJECT

PROJECT NO. 20220038

SHEET 2 OF 9



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

NW 17 AVE OUTFALL RETROFIT
DRAINAGE IMPROVEMENT PROJECT

NAME	DATE	NAME	DATE
DESIGNED BY I.ROBERTO	11-23-22	DRAWN BY M.CEDRON	11-23-22
CHECKED BY F.GONZALEZ	11-23-22	CHECKED BY I.ROBERTO	11-23-22

SUPERVISED BY: LHERRERA



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

GENERAL NOTES

-Survey as performed by DTPW Survey Section as per:
FB #2975, PG #
NW 17 AVE AND SR-836

-P.K. & Brass Washer in conc. Slab of Traffic Sign Light Pole

- The coordinates are taken by G.P.S

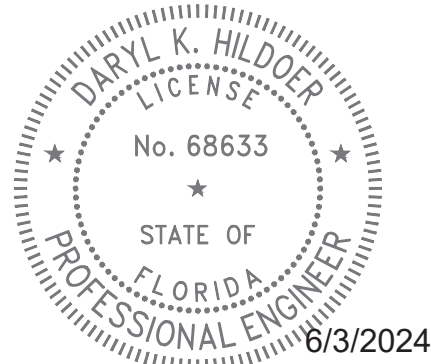
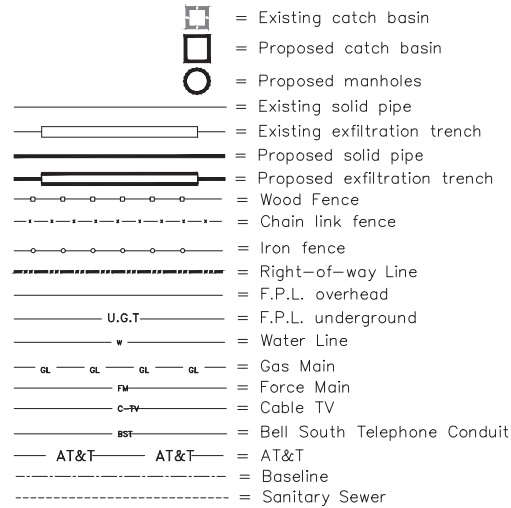
-N.G.V.D. 1929 DATUM



KEY SHEET
TRS 53-41-34



























































(M) = Measures
(P) = By Plot
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

- | | |
|--|-------------------------------|
| | = Base Line |
| | = Center Line |
| | = Radius |
| | = Length of Curve |
| | = Curb and Gutter |
| | = Edge of Pavement |
| | = Top of Bank |
| | = Edge of Water |
| | = Edge of Water |
| | = Permanent Control Point |
| | = Registered Land Surveyor |
| | = 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 |
| | = Cable Television Pedestal |
| | = 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 |
| | = Gas valve |
| | = PVC Post |
| | = Wire guy |
| | = Sprinkle Head |
| | = Central angle of curve |
| | = Monitoring Well |
| | = Petroleum Pipeline |
| | = Electric Handhole |
| | = Electric Manhole |
| | = Firehydrant |
| | = Water Valve |
| | = Water Meter |
| | = Traffic Sign Manhole |
| | = Traffic Sign Handhole |
| | = Traffic Control Box |
| | = Traffic Signal Box |
| | = Storm Water Manhole |
| | = Electrical Control Box |
| | = Rail Road Crossing (Light) |
| | = Concrete |
| | = Sanitary Sewer Valve |
| | = Asphalt |
| | = Unimprovement Driveway |
| | = Gravel |
| | = Brick |
| | = Stamped Concrete |
| | = Concrete Block Fence |
| | = Tree Diameter |



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	AVOCADO TREE		MAMEY TREE
	ARECA TREE		MULBERRY TREE
	AUST. PINE TREE		MAHOGANY TREE
	ALMOND TREE		MANGO TREE
	BLACK OLIVE TREE		MANGROVE TREE
	BOTTLE BRUSH TREE		NISPERO TREE
	BISMARCK PALM		NORFOLK TREE
	BUSH TREE		OAK TREE
	BISCHOFIA TREE		ORANGE GEIGER
	BANANA TREE		PINE TREE
	BANYAN TREE		PALM TREE
	BRASILIAN PEPPER		QUEEN PALM TREE
	CABBAGE TREE		RHOBINI TREE
	COCONUT TREE		ROYAL POINCIANA TREE
	CLUSTER PALM		ROSEWOOD TREE
	CYPRESS TREE		ROYAL PALM
	CANARY PALM		PHILODENDRON/RUBBER TREE
	COCOS PLUMOSA		SOUR ORANGE TREE
	CACTUS		SEA GRAPE TREE
	DATE PALM		SOLITARY PALM
	FICUS TREE		SILVER BUTTONWOOD TREE
	FLORIDA ORCHID TREE		TABEBULA TREE
	FOX TAIL TREE		TRAVELER CLUSTER
	GUMBO LIMBO TREE		TAMARIND TREE
	HIBISCUS TREE		UNKNOWN TREE
	IXORA TREE		UMBRELLA TREE
	JUNIPER TREE		ZAPODILLA TREE
	JACARANDA TREE		WASHINGTON PALM
	KAPEC TREE		
	LIVE OAK TREE		

[illegible]

NW 17 AVE OUTFALL RETROFIT
DRAINAGE IMPROVEMENT PROJECT

	NAME	DATE		NAME	DATE
DESIGNED BY	I.ROBERTO	11-23-22	DRAWN BY	M.CEDRON	11-23-22
CHECKED BY	I.ROBERTO	11-23-22	CHECKED BY	F.GONZALEZ	11-23-22
SUPERVISED BY:					

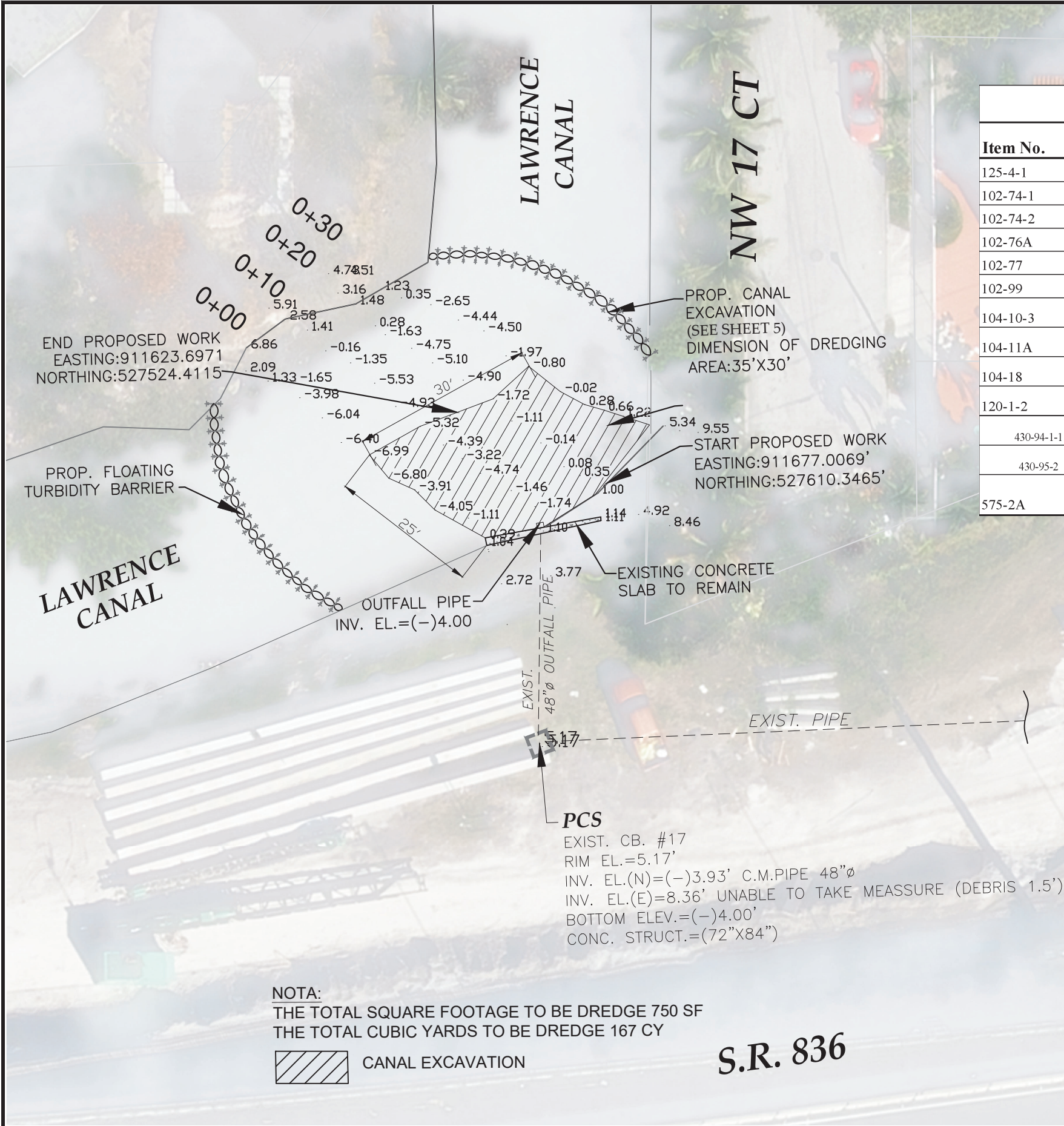


DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128


SURVEYOR'S NOTES, KEY SHEET
LEGEND AND ABBREVIATIONS

SCALE: 1"=20'

Summary of Quantities			
Item No.	Description	Unit	Quantity
125-4-1	Hauling or Transporting Contaminated Material to an Approved Landfill.	TON	9
102-74-1	Barricades (Temporary - Types I, II, VP and Drum)	E.A./day	1600
102-74-2	Barricades (Temporary, Type III, 6')	E.A./day	720
102-76A	Advance Warning Arrow Panel	E.A./day	100
102-77	High intensity flashing (Temporary, Type "B")	E.A./day	750
102-99	Variable message sign (temporary)	E.A./day	10
104-10-3	Sediment Barrier	L.F.	100
104-11A	Floating Turbidity Barrier	L.F.	400
104-18	Inlet Protection System	E.A.	1
120-1-2	Regular Canal Excavation	C.Y.	272
430-94-1-1	Desilting Pipe, 0 - 48"	L.F.	200
430-95-2	Desilting Drainage Structure	E.A.	1
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.	1400

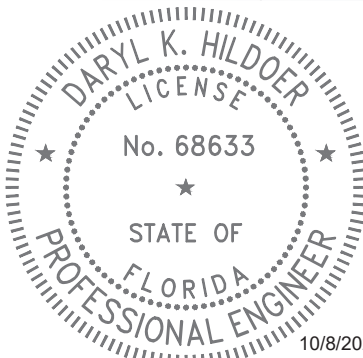


NOTA:
THE TOTAL SQUARE FOOTAGE TO BE DREDGE 750 SF
THE TOTAL CUBIC YARDS TO BE DREDGE 167 CY

 CANAL EXCAVATION

S.R. 836

Daryl K Hildoer
Digitally signed by Daryl K Hildoer
Date: 2024.10.08 17:50:32 -04'00'



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AND SEALED BY DARYL K. HILDOER, P.E.
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REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

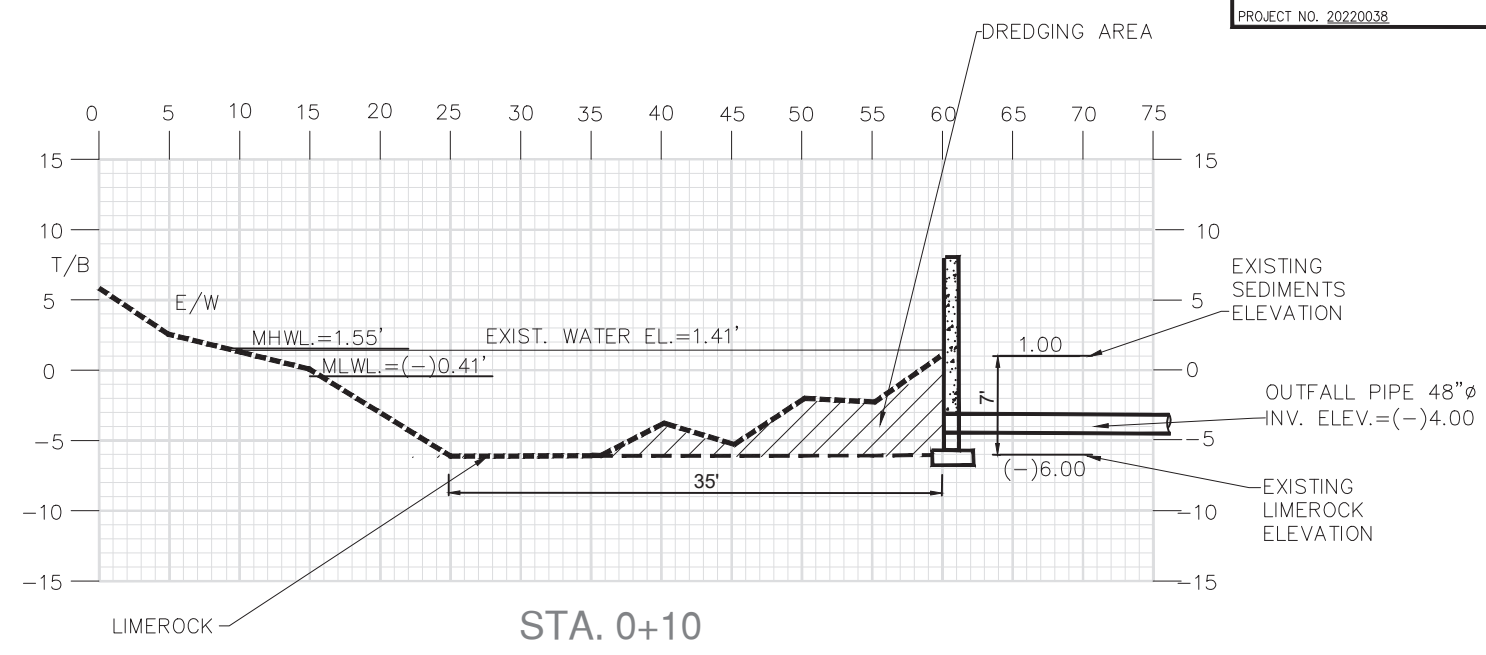
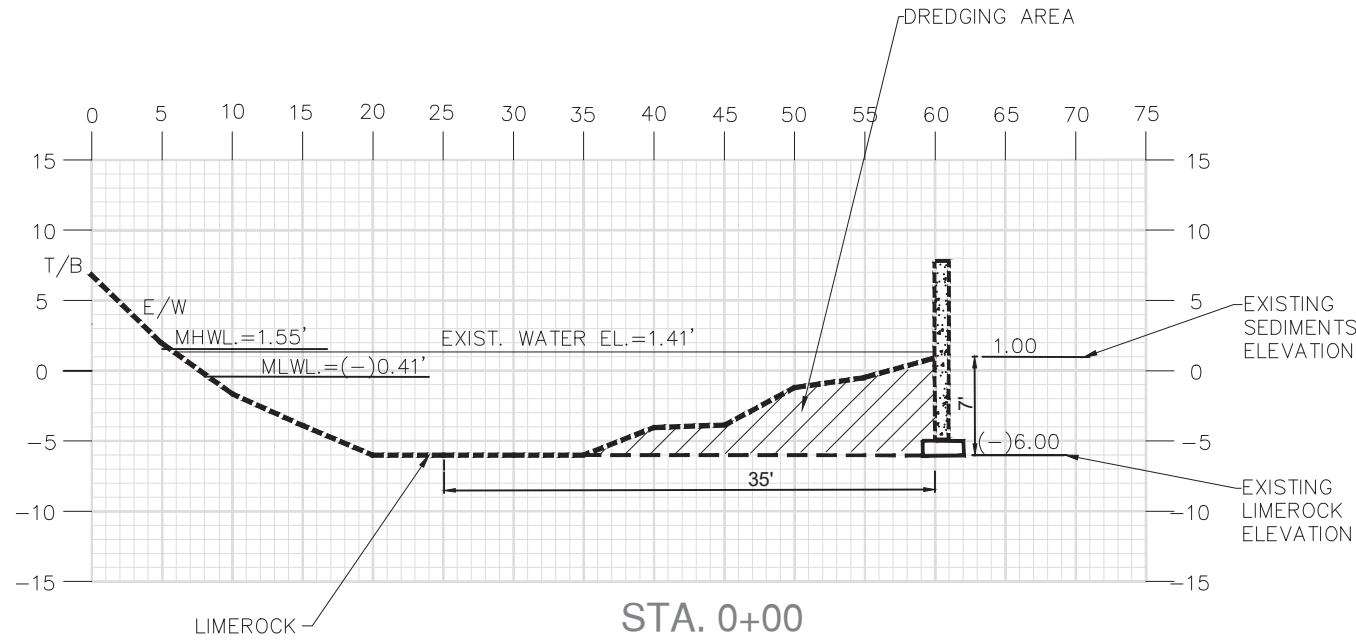
NW 17 AVE OUTFALL RETROFIT
DRAINAGE IMPROVEMENT PROJECT

	NAME	DATE		NAME	DATE
DESIGNED BY	I.ROBERTO	11-23-22	DRAWN BY	M.CEDRON	11-23-22
CHECKED BY	F.GONZALEZ	11-23-22	CHECKED BY	I.ROBERTO	11-23-22
SUPERVISED BY:					

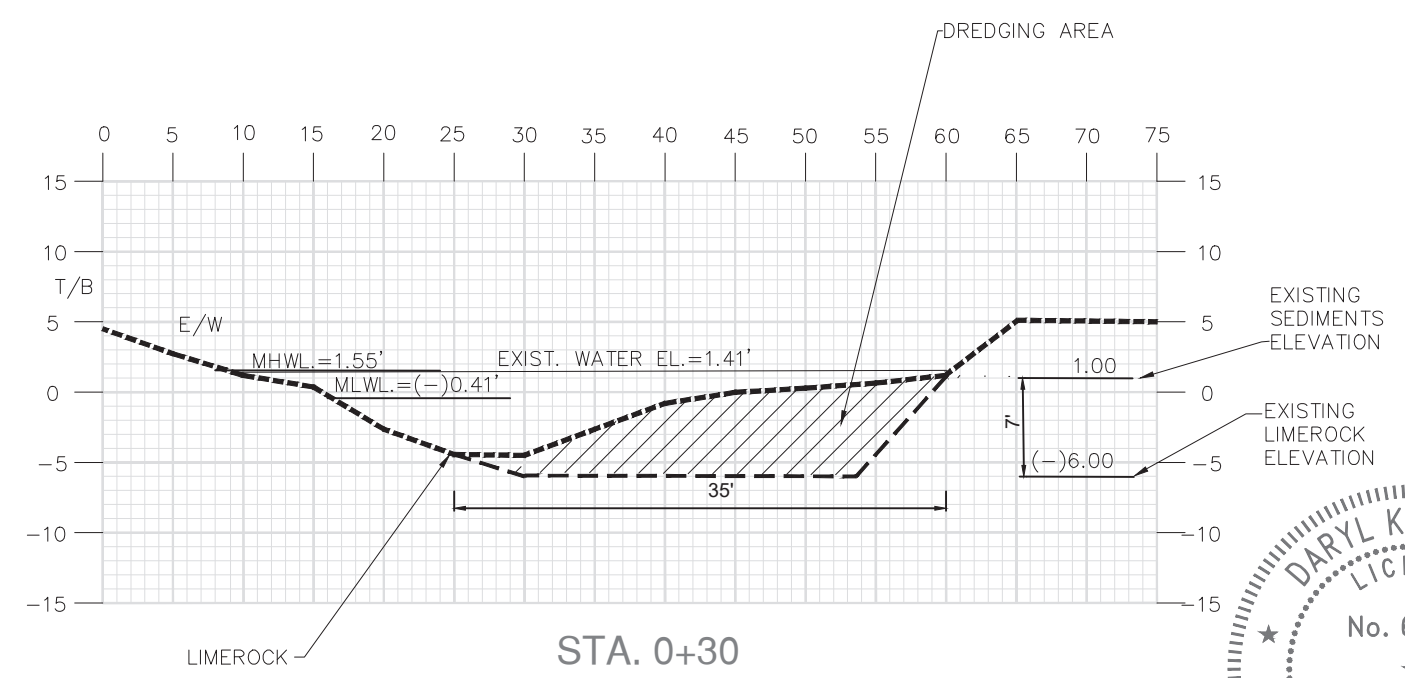
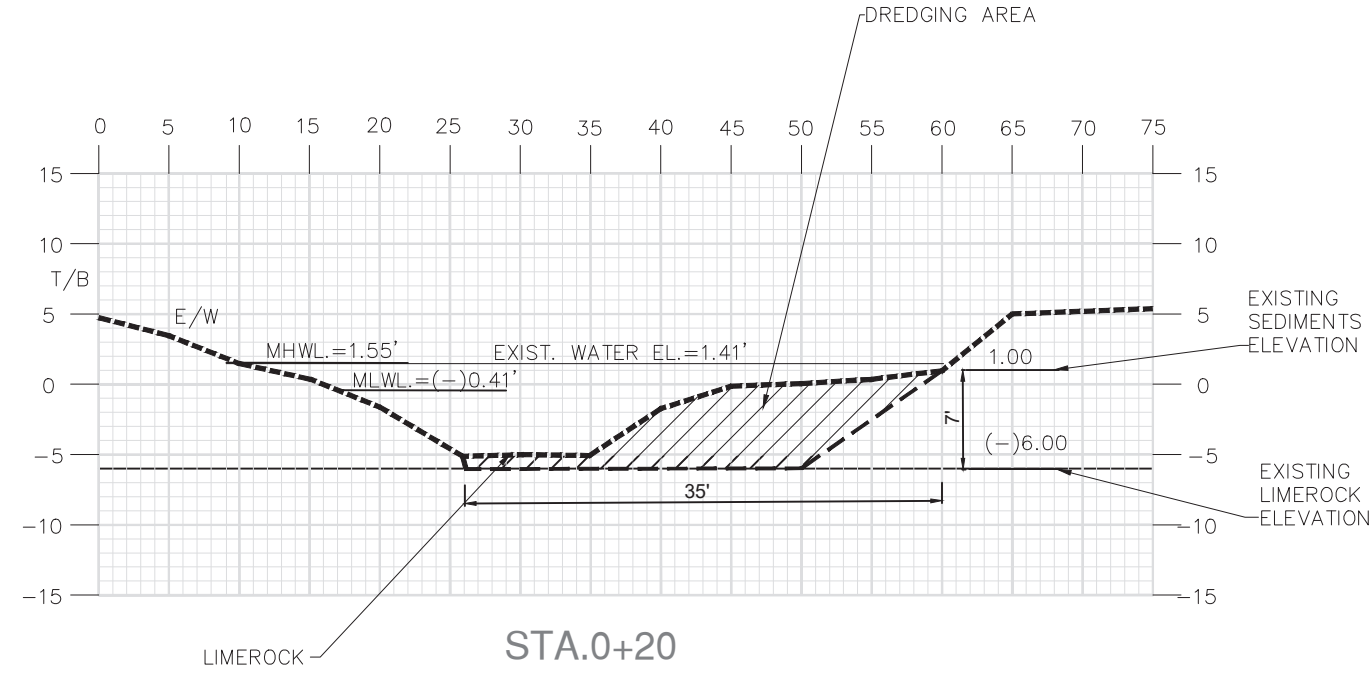
MIAMI-DADE COUNTY

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

DRAINAGE PLAN AND
SUMMARY OF QUANTITIES TABLES

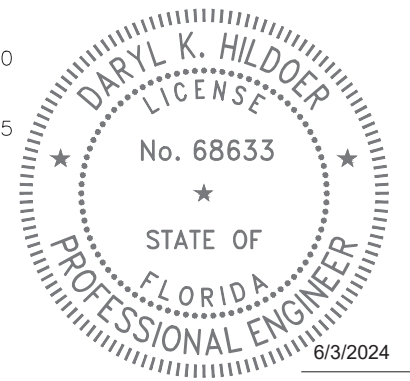


NOTE: MAXIMUM DEPTH TO BE DREDGED: 6 FEET



CANAL EXCAVATION

MHWL-MEAN HIGH WATER LINE(NGVD)
MLWL-MEAN LOW WATER LINE(NGVD)



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\\NA\2022\SEBEL\NW 17 Ave Outfall Retrofit\SH-05(05-08-24).dwg May 09, 2024 - 1:47pm E184376

REVISIONS									NW 17 AVE OUTFALL RETROFIT DRAINAGE IMPROVEMENT PROJECT		<table><tr><td></td><td>NAME</td><td>DATE</td><td></td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGNED BY</td><td>I.ROBERTO</td><td>11-23-22</td><td>DRAWN BY</td><td>M.CEDRON</td><td>11-23-22</td></tr><tr><td>CHECKED BY</td><td>I.ROBERTO</td><td>11-23-22</td><td>CHECKED BY</td><td>F.GONZALEZ</td><td>11-23-22</td></tr><tr><td colspan="6">SUPERVISED BY:</td></tr></table>					NAME	DATE		NAME	DATE	DESIGNED BY	I.ROBERTO	11-23-22	DRAWN BY	M.CEDRON	11-23-22	CHECKED BY	I.ROBERTO	11-23-22	CHECKED BY	F.GONZALEZ	11-23-22	SUPERVISED BY:						<div><div>MIAMI-DADE</div><div>COUNTY</div></div> <div>DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION STEPHEN P. CLARK CENTER 111 NW 1 ST MIAMI, FLORIDA 33128</div>		CROSS SECTIONS	
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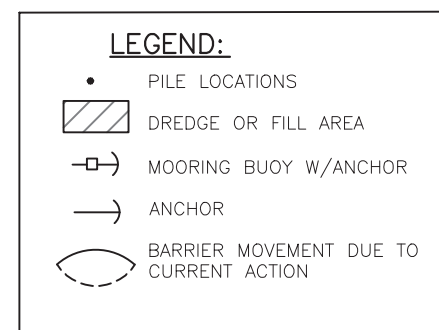
18 OZ NYLON REINFORCED
PVC FABRIC (.300 PSI TEST)



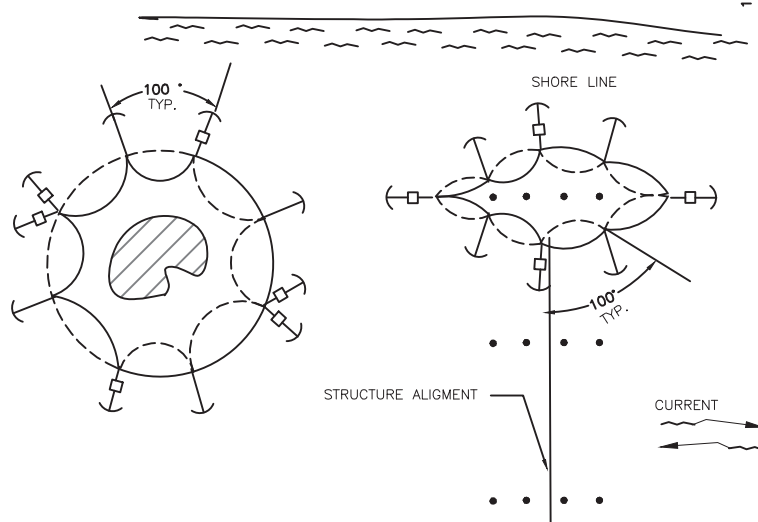
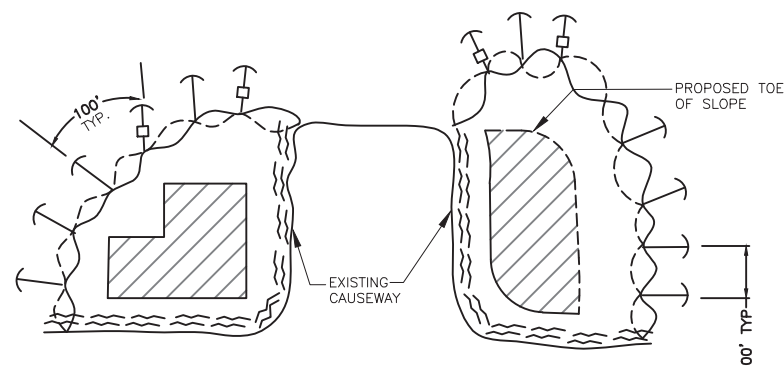
Diagram illustrating the dimensions and materials of a test specimen:

- Top horizontal dimension: 6' MAX.
- Left vertical dimension: 5' OR MORE
- Left vertical dimension (inner): 3'
- Left vertical dimension (bottom): 18" MIN.
- Left vertical dimension (bottom): 8"
- Materials: 1/2" MIN. DIA. WOOD; STEEL 1.33 LBS/FT. MIN.; 18 OZ. NYLON PVC FABRIC (3.0); PR

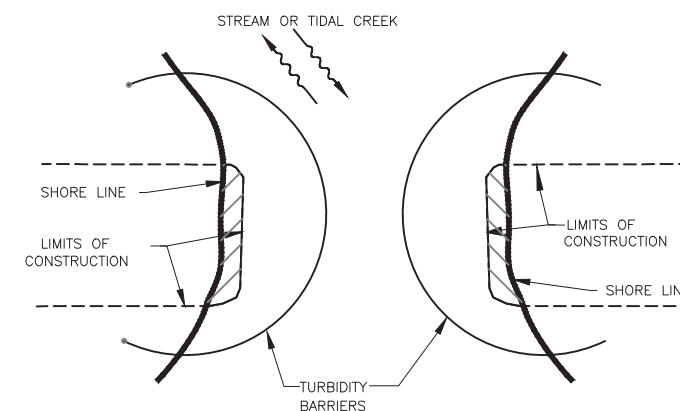
STAKED TURBIDITY BARRIER (TYP.)



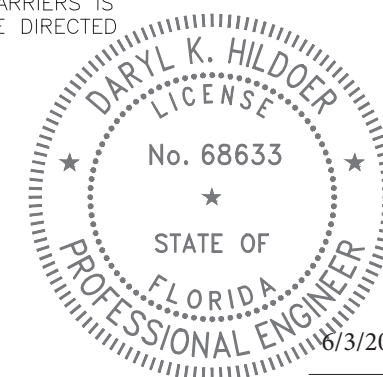
- 1- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
- 2- NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- 3- DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- 4- NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.



TURBIDITY BARRIER APPLICATIONS
FLOATING TURBIDITY BARRIERS (TYP.)



TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPES(S) WILL BE AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEMS(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED TURBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS IS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



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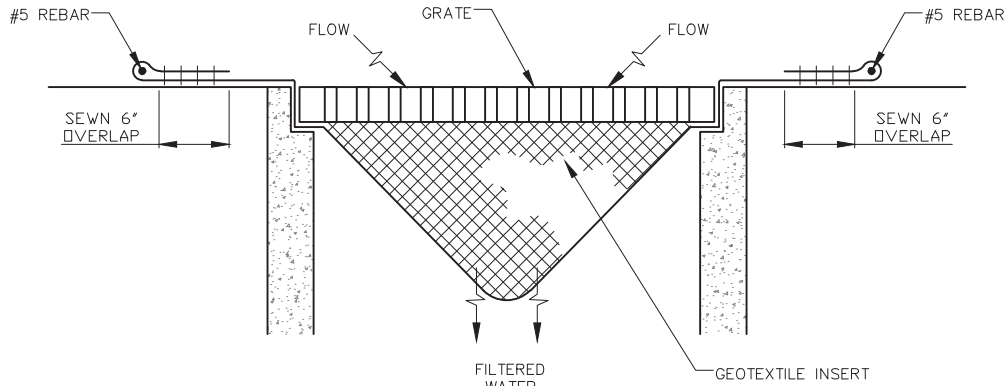
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CHECKED BY	F.GONZALEZ	11-23-22	CHECKED BY	L.ROBERTO	11-23-22

SUPPFRM(S)F D BY:

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AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION

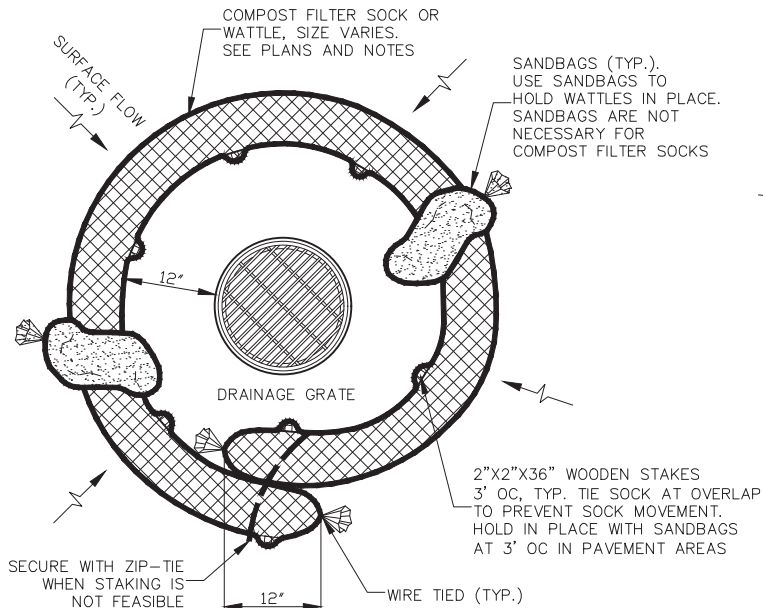
STEPHEN P. CLARK CENTER
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MIAMI, FL 33138

FLOATING TURBIDITY BARRIERS

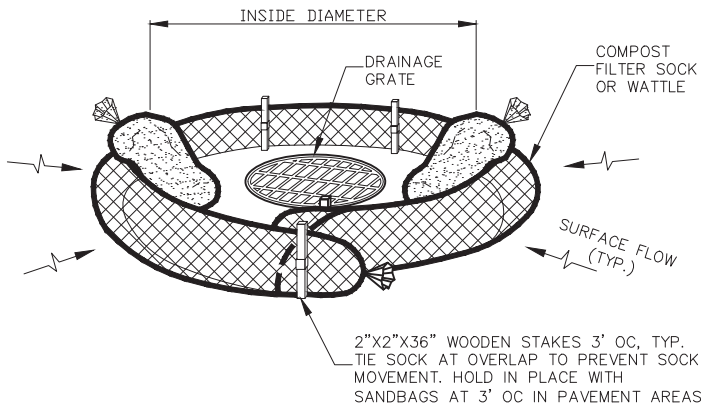


PREFABRICATED FILTER INSERT - TYPE 3

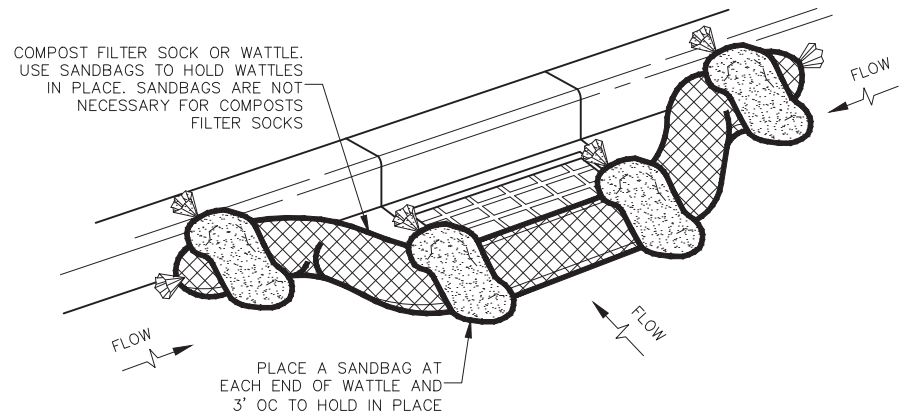
NOT TO SCALE



AREA DRAIN PLAN



AREA DRAIN PERSPECTIVE VIEW



CURB INLET PERSPECTIVE VIEW

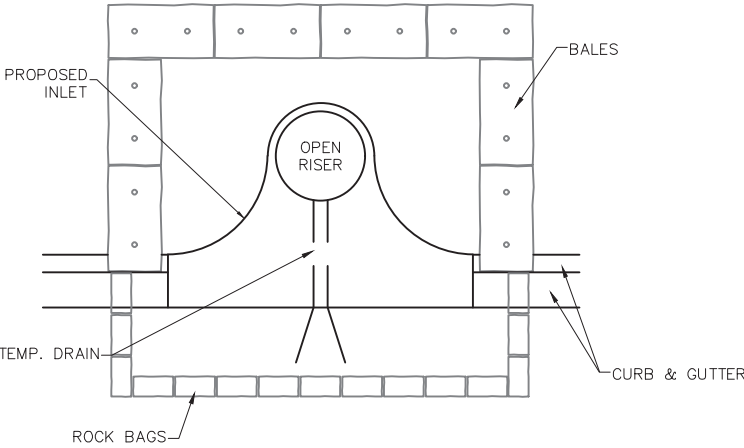
COMPOST FILTER SOCK OR WATTLE - TYPE 7

NOT TO SCALE

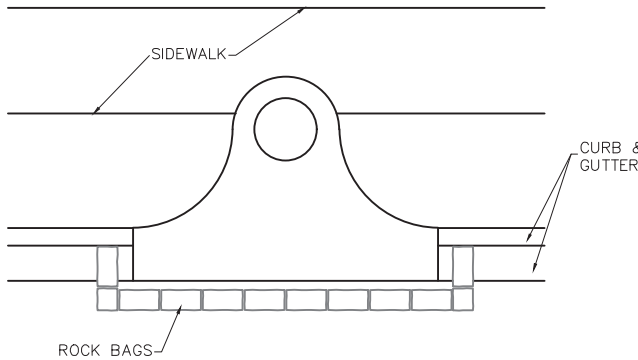
NOTES:

TYPE 3 – PREFABRICATED FILTER INSERTS
INSTALL PREFABRICATED FILTER INSERTS
ACCORDING TO THE PLANS, SPECIAL PROVISIONS,
AND MANUFACTURER RECOMMENDATIONS.
PREFABRICATED INSERTS WITH PROVISIONS FOR
OVERFLOW ARE ALLOWED ONLY WHEN
ACCOMPANIED BY ADDITIONAL BMP's TO
PREVENT THE POTENTIAL OF SEDIMENTS
ENTERING PROJECT STORM SYSTEMS.
FIELD FABRICATED INSERTS ARE NOT ALLOWED.

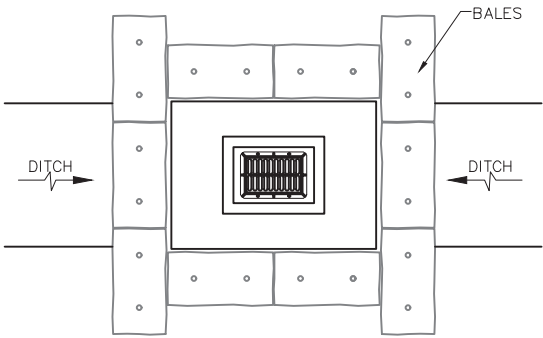
TYPE 7 – COMPOST FILTER SOCK
DRIVE 2"x2" WOOD STAKES A MINIMUM OF
6" INTO GROUND AND FLUSH WITH THE TOP
OF THE SOCK.
OVERLAP ENDS OF SOCK PER MANUFACTURERS
RECOMMENDATIONS (12" MIN., 36" MAX.).
USE 8" TO 12" DIA SOCK ON CURBSIDE IN
TRAFFIC AREAS.
USE 12" TO 18" DIA SOCK IN NON-TRAFFIC AREAS
OR AREAS WHERE THE LARGER SOCKS CAN BE
USED SAFELY.
USE SYNTHETIC MESH SOCKS FOR TEMPORARY
INSTALLATIONS.



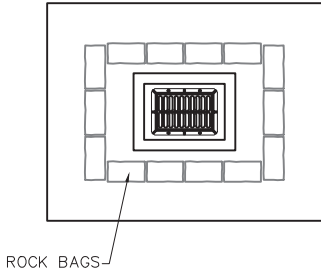
PARTIAL INLET



COMPLETED INLET



DITCH BOTTOM INLET



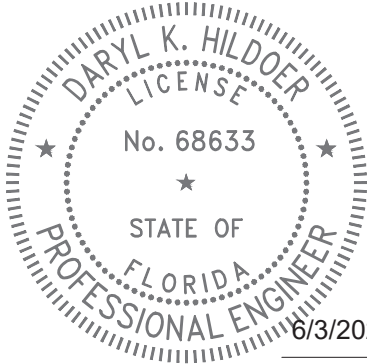
SWALE INLET

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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S:\MIRIAM\ISBELT\NW 17 AVE OUTFALL RETROFIT\SH-07.dwg Jun 24, 2023 - 10:01am E184376

REVISIONS					
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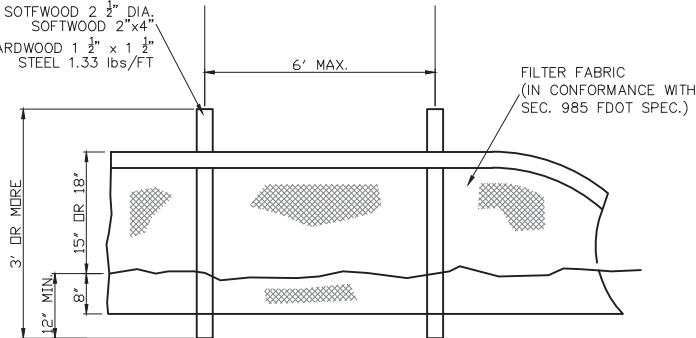
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



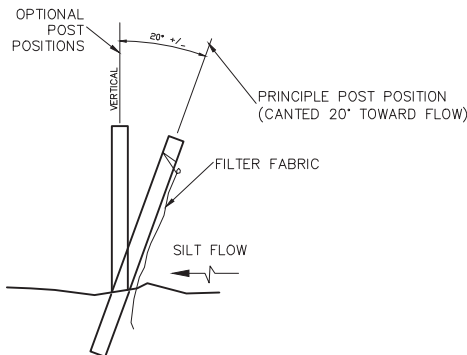
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ROADWAY ENGINEERING AND
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STEPHEN P. CLARK, CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

INLET PROTECTION SYSTEMS DETAILS

POST OPTIONS:
SOTFWOOD 2 1/2" DIA.
SOTFWOOD 2"x4"
HARDWOOD 1 1/2" x 1 1/2"
STEEL 1.33 lbs/FT



ELEVATION

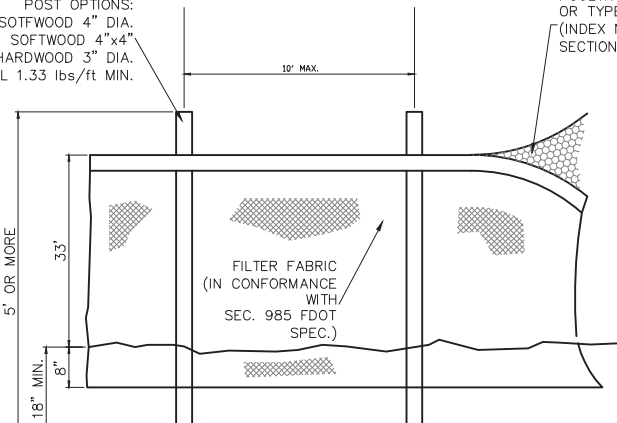


SECTION

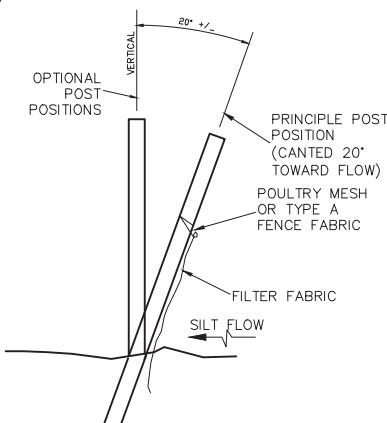
TYPE III SILT FENCE (TYP.)

POST OPTIONS:
SOTFWOOD 4" DIA.
SOTFWOOD 4"x4"
HARDWOOD 3" DIA.
STEEL 1.33 lbs/ft MIN.

POULTRY MESH (20 GA. MIN.)
OR TYPE A FENCE FABRIC
(INDEX No. 801 &
SECTION 550 FDOT SPEC.)

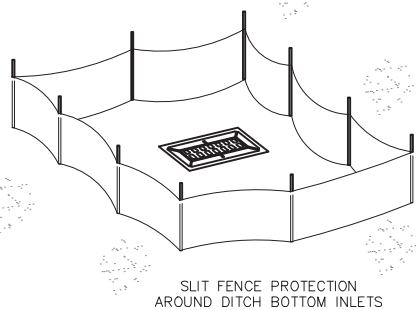
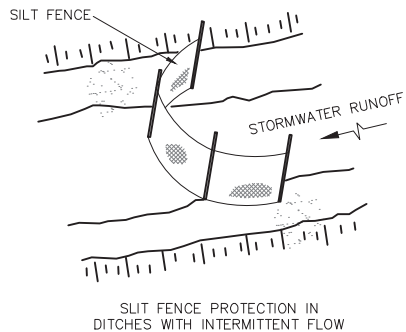
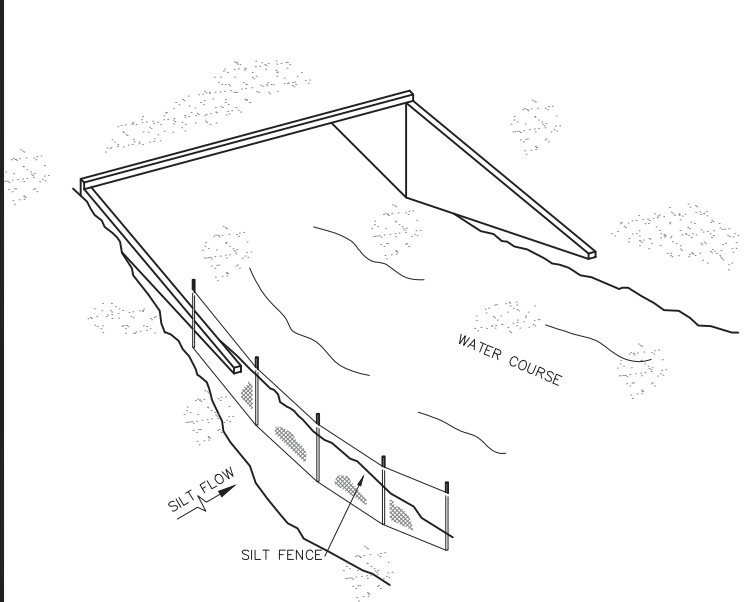


ELEVATION

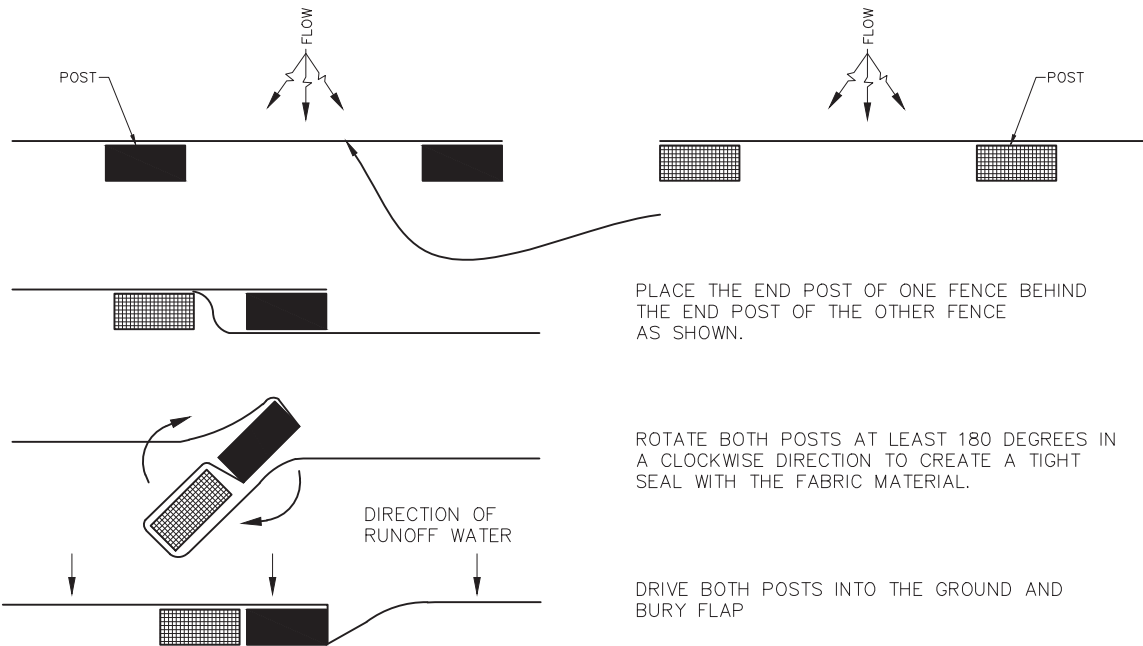


SECTION

TYPE IV SILT FENCE (TYP.)



SILT FENCE APPLICATIONS (TYP.)



PLANT VIEW

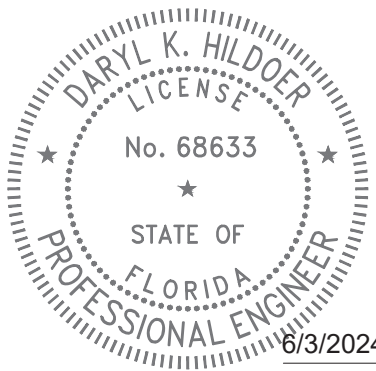
JOINING TWO SILT FENCES (TYP.)

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.

- 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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SEDIMENT BARRIERS DETAILS

