

W:\PROJECTS\NW 97 AVE from NW 52 ST to NW 46 LN\NW 97 AVE from NW 52 ST to NW 46 LN-Cover.dwg Nov 21, 2023 - 4:35pm E138892

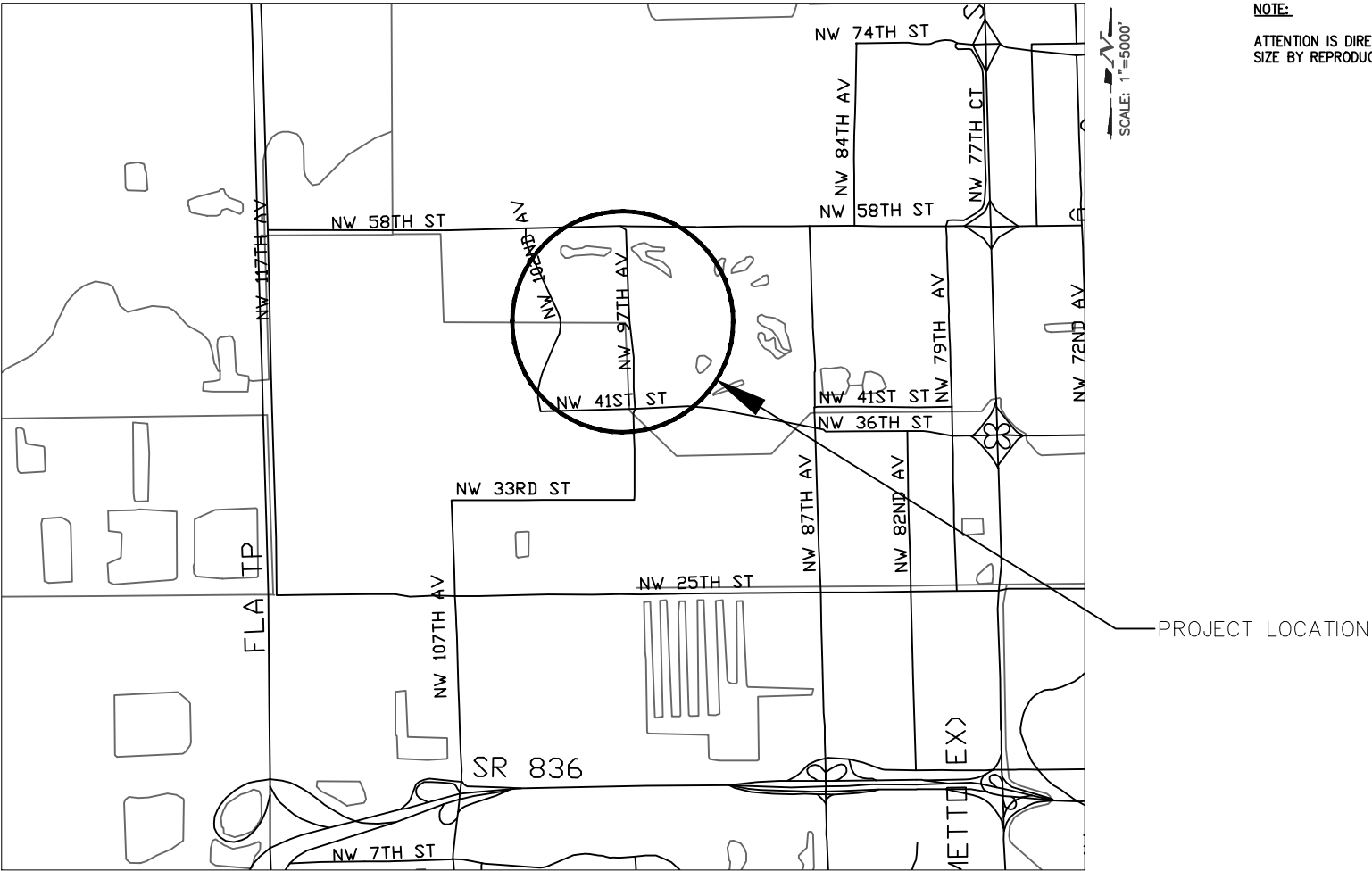
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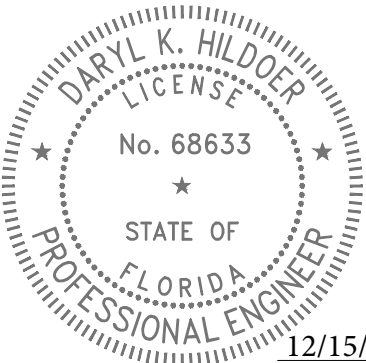
PLANS FOR PROPOSED
DRAINAGE IMPROVEMENTS TO

N.W. 97 AVE FROM
N.W. 52 ST TO N.W. 46 LN.

MIAMI-DADE COUNTY PROJECT NO. 20230032
FUNDING SOURCE:



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.




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DESIGN	M.V.	CHECK	L.H.
		DRAWN	E.E.
DATE	10-04-23	SHEET	1 OF 11

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

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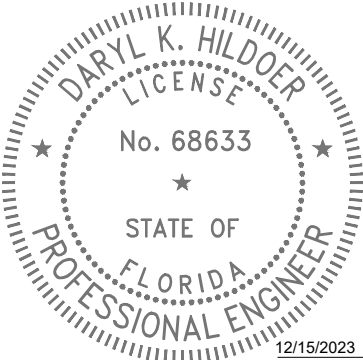
GENERAL NOTES:

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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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NW 97 AVE FROM
NW 52 ST TO NW 46 LN

	NAME	DATE		NAME	DATE
DESIGNED BY	M.V.		DRAWN BY	E.E.	10-04-23
CHECKED BY	L.H.		CHECKED BY		
SUPERVISED BY:					



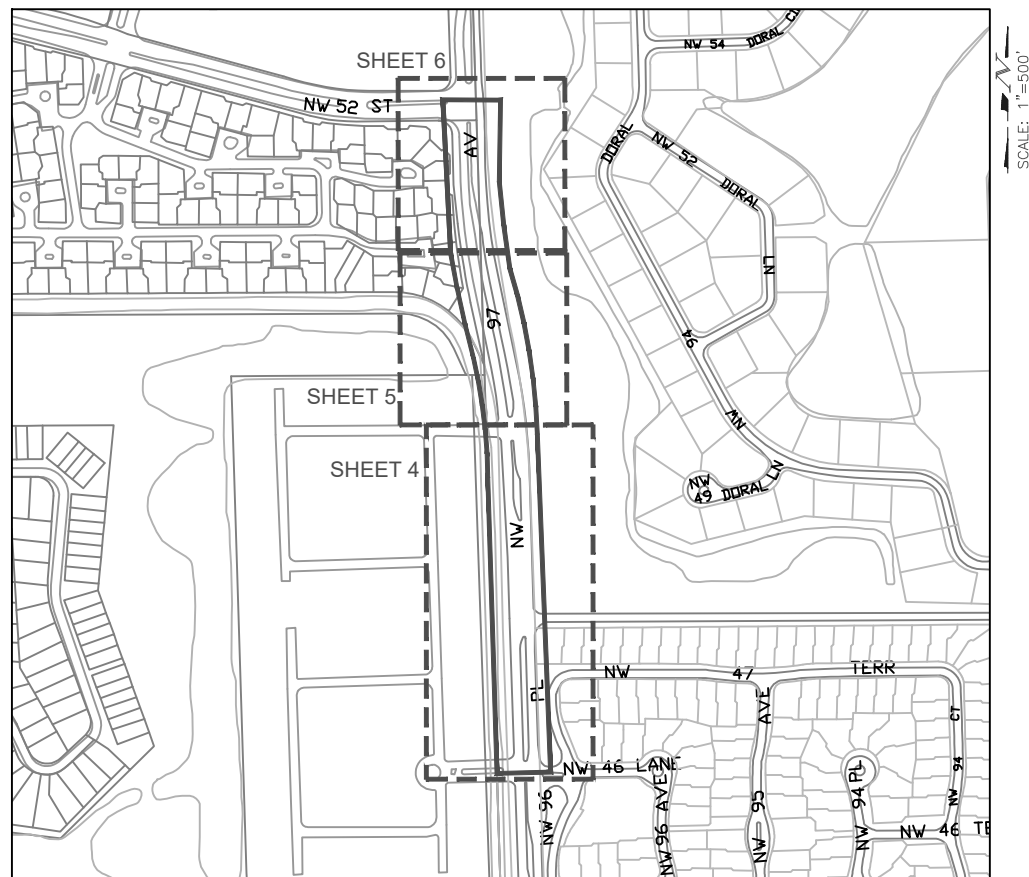
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION

STEPHEN P. CLARK, CENTER
111 NW 1ST
MIAMI, FLORIDA 33138

GENERAL NOTES

- Survey performed by DTPW Survey Section.
- Survey Date:
- Survey as per
F.B. 3000 Page 46-56
- (NW 97 AV from NW 52 ST to NW 46 LN)
- The elevations are based on NGVD 1929, Miami Dade County
 - BM # 1: H-451-M.D.C.B.M.-Elev = 8.61'
 - BM # 2: N-512-M.D.C.B.M.-Elev = 5.44'
- Sections 20 & 21, Township 53 , Range 40.
- Benchmark for vertical control information was recorded by DTPW Survey Section.
- Right-of-Way Lines shown hereon as per existing plats.

























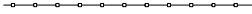





LOCATION MAP & KEY MAP































































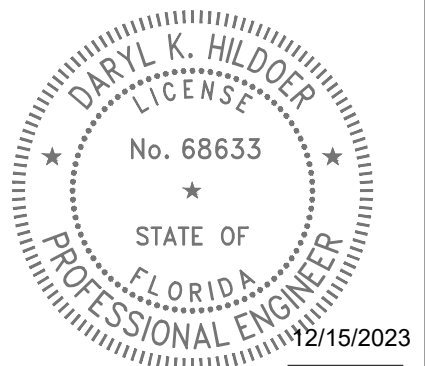
KEY SHEET
TRS 53-40-20 & 53-40-21

LEGEND AND ABBREVIATIONS:

- | | |
|-------|-------------------------------|
| (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 |
| | = BASE LINE |
| | = CENTER LINE |
| | = RADIUS |
| | = LENGTH OF CURVE |
| C&G | = CURB & GUTTER |
| VG | = VALLEY |
| 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 |
| | = 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 |
| | = TRAFFIC SIGH MANHOLE |
| | = TRAFFIC SIGH 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 |
|  | = PROPOSED CATCH BASIN |
|  | = PROPOSED STORMWATER MANHOLE |
|  | = EXISTING SOLID PIPE |
|  | = EXISTING FRENCH DRAIN |
|  | = PROPOSED SOLID PIPE |
|  | = PROPOSED FRENCH DRAIN |
|  | = RIGHT-OF-WAY LINE |
|  | = 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 |

- | | | | |
|---|---------------------|---|--------------------------|
|  | AVOCADO TREE |  | LIVE OAK TREE |
|  | ARECA TREE |  | MAMEY TREE |
|  | AUST. PINE TREE |  | MULBERRY TREE |
|  | ALMOND TREE |  | MAHOGANY TREE |
|  | BLACK OLIVE TREE |  | MANGO TREE |
|  | BOTTLE BRUSH TREE |  | MANGROVE TREE |
|  | BISMARCK PALM |  | NISPERO TREE |
|  | BUSH TREE |  | NORFOLK TREE |
|  | BISCHOFIA TREE |  | OAK TREE |
|  | BOTTLE PALM |  | ORANGE GEIGER |
|  | BANANA TREE |  | PINE TREE |
|  | BANYAN TREE |  | PALM TREE |
|  | BRAZILIAN PEPPER |  | PHILODENDRON/RUBBER TREE |
|  | CABBAGE TREE |  | QUEEN PALM TREE |
|  | COCONUT TREE |  | RHOBOLINI TREE |
|  | CLUSTER PALM |  | ROYAL POINCIANA TREE |
|  | CYPRESS TREE |  | ROSEWOOD TREE |
|  | CANARY PALM |  | ROYAL PALM |
|  | COCOS PLUMOSA |  | SOOR 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 |  | WASHINGTON PALM |
|  | JARACANDA TREE |  | ZAPODILLA TREE |
|  | KAPOK TREE |  | HEDGES |



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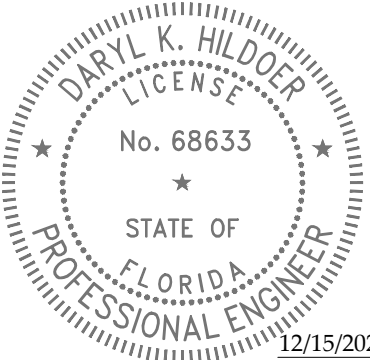
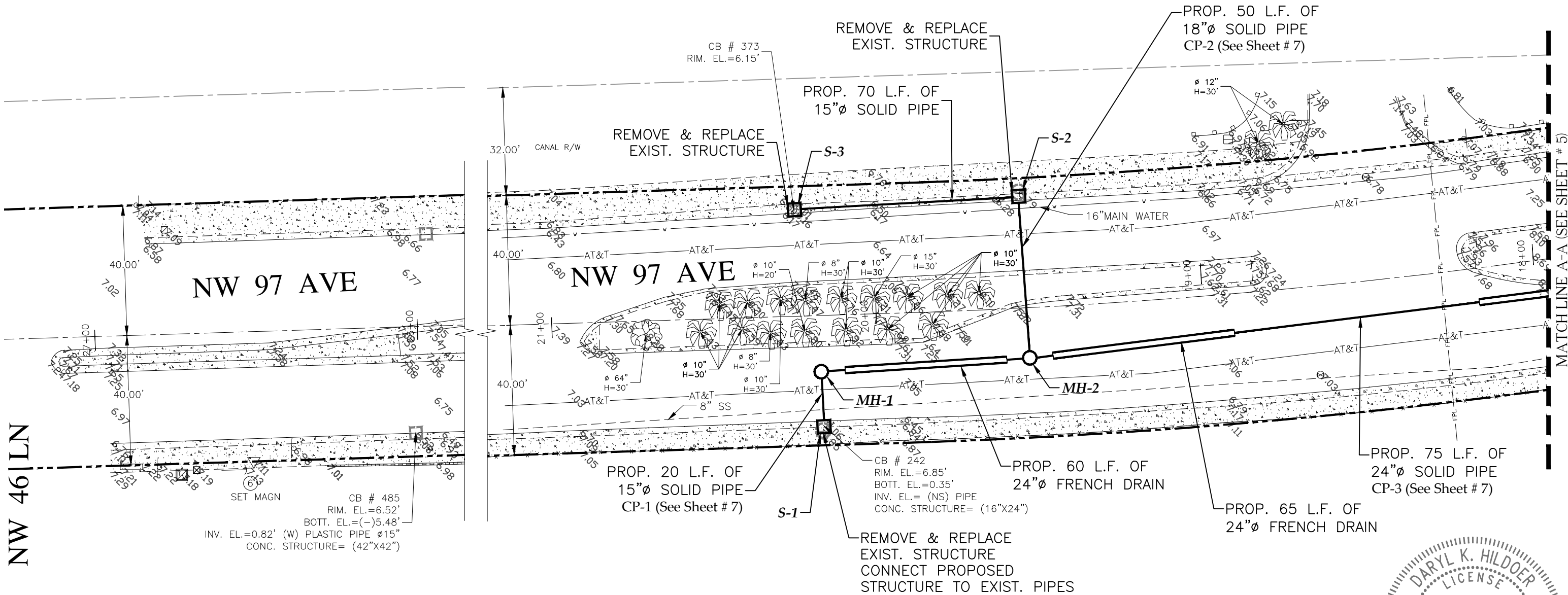
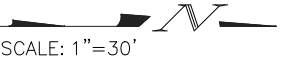
NW 97 AVE FROM
NW 52 ST TO NW 46 LN

	NAME	DATE		NAME	DATE
DESIGNED BY	M.V.		DRAWN BY	E.E.	10-04-2
CHECKED BY	L.H.		CHECKED BY		
SUPERVISED BY:					



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ROADWAY ENGINEERING AND
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SURVEYOR'S NOTES, KEY SHEET
LEGEND AND ABBREVIATIONS



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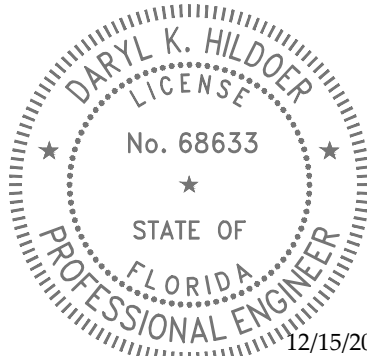
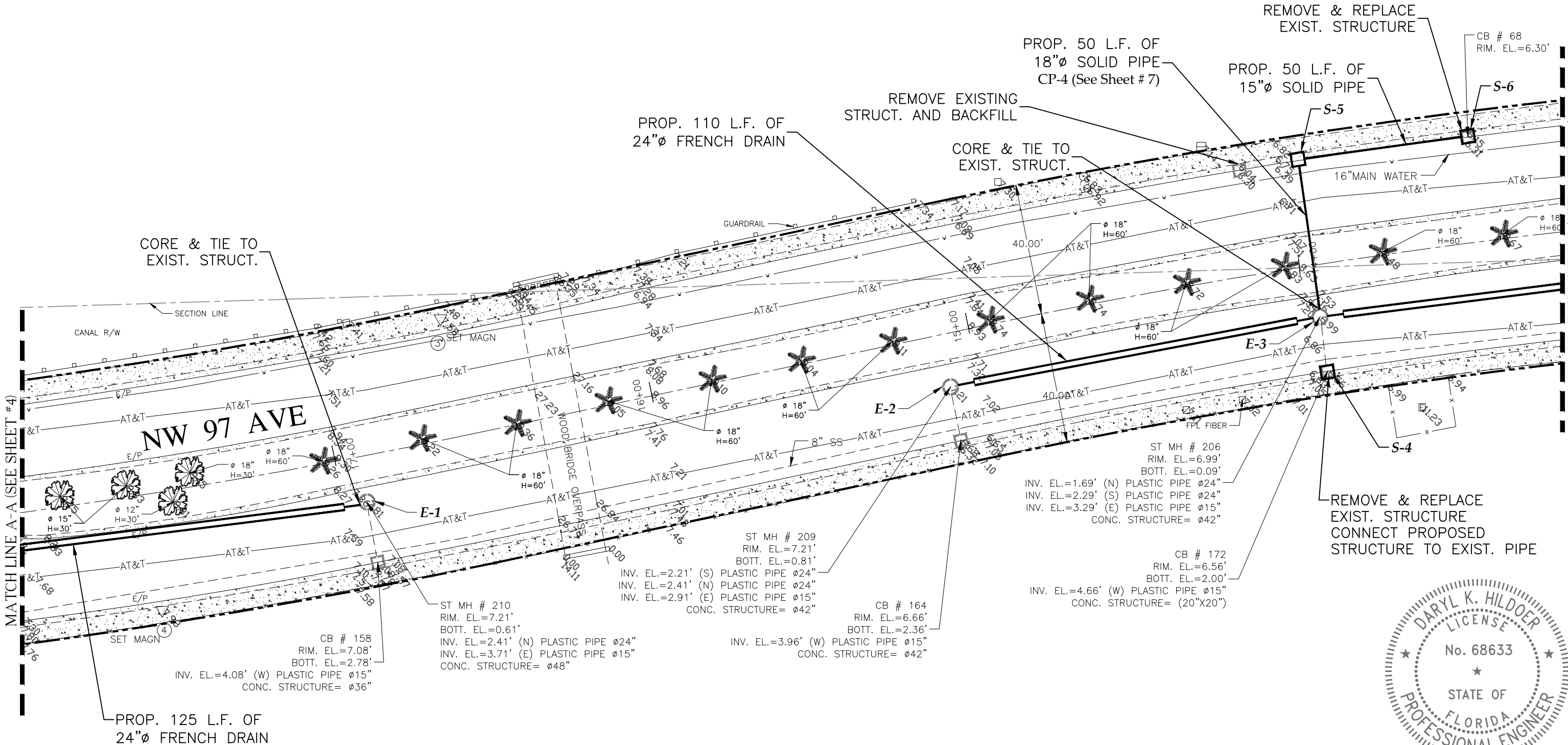
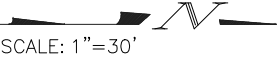
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DRAINAGE PLAN



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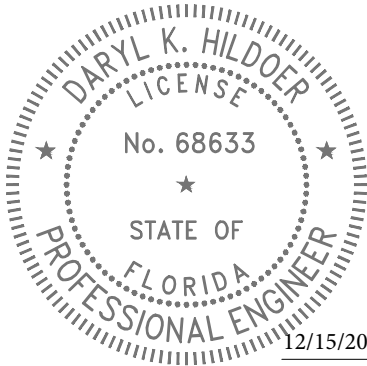
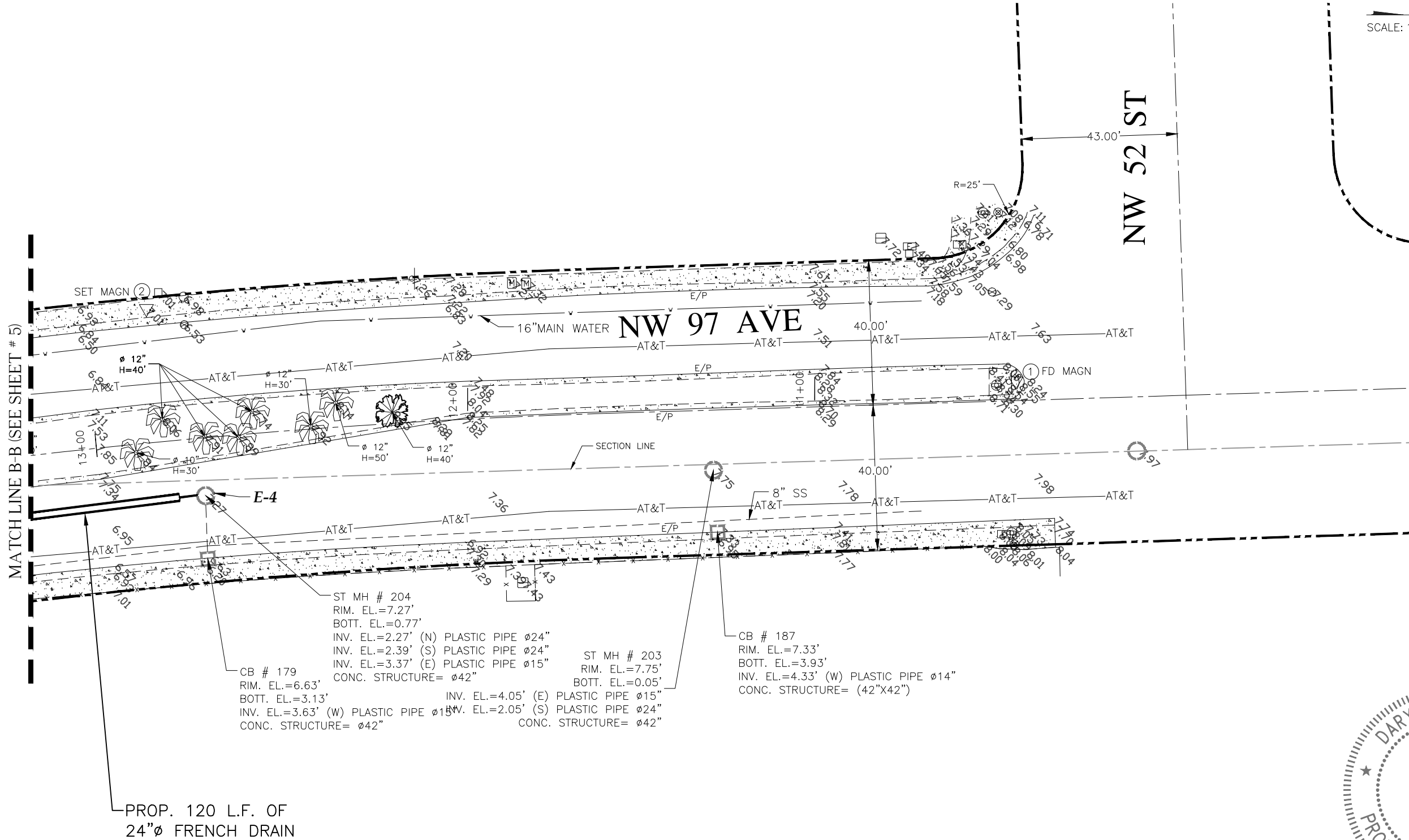
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DRAINAGE PLAN

W:\PROJECTS\NW 97 AVE from NW 52 ST to NW 46 LN\NW 97 AVE from NW 52 ST to NW 46 LN-Project.dwg Nov 28, 2023 - 11:25am E138892



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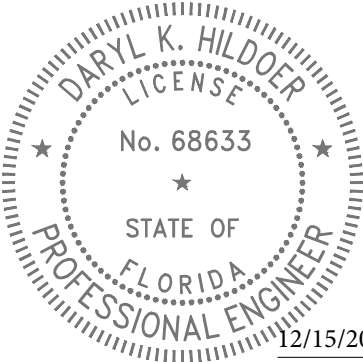
DRAINAGE PLAN

W:\PROJECTS\NW 97 AVE from NW 52 ST to NW 46 LN\NW 97 AVE from NW 52 ST to NW 46 LN-Struct Tables.dwg Nov 28, 2023 -- 11:35am E138892

NW 97 Ave from NW 52 St to NW 46 Lane			
SUMMARY OF QUANTITIES			
Item No.	Description	Unit	Quantity
102-74-1	Barricades (Temporary - Types I, II, VP and Drum)	E.A./DAY	7200
102-74-2	Barricades (Temporary, Type III, 6')	E.A./day	1080
102-76A	Advance Warning Arrow Panel	E.A./DAY	240
102-77	High intensity flashing (Temporary, Type "B")	E.A./day	2160
102-99	Variable message sign (temporary)	E.A./day	40
104-18	Inlet Protection System	E.A.	10
110-3-1	Removal of structure (Inlet or Manhole) (Includes removal & disposal of structure, and plugging of abandoned pipe with concrete) (this item to be used when in conflict with new structure)	E.A.	1
125-8	Backfill existing trench with select fill	C.Y.	60
327-70-01	Milling, 1" Average Depth	S.Y.	360
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.	945
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	Ton	60
425-1-35	Curb Inlet Type P-5 (Any dimension) (Max 15' Deep)	E.A.	3
425-1-36	Curb Inlet Type P-6 (Any dimension) (Max 15' Deep)	E.A.	3
425-2-41	Manhole (Type P-7T, Any dimension, maximum 15' deep)	E.A.	2
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.	6
430-95-2	Desilting Drainage Structure	E.A.	7
430-171-115	Pipe Culvert - 15" Diameter (Round)	L.F.	140
430-171-118	Pipe Culvert - 18" Diameter (Round)	L.F.	100
430-171-124	Pipe Culvert - 24" Diameter (Round)	L.F.	75
443-70-4-3	French Drain (24" diameter pipe, trench depth 15 ft bls)	L.F.	480
520-1-10	Concrete Curb and Gutter (Type F) (6" Curb, 18" Gutter) (Includes cost of limerock base and subgrade)	L.F.	140
522-2	Concrete Sidewalk (6" thick)(3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	30
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.	600
706-1-12	Reflective Pavement Markers (class B, mono or bi-directional , all colors)	E.A.	50
711-11-121	Thermoplastic (White) (Solid) (6")	L.F.	700
711-11-141	Thermoplastic (White) (Skip) (6")	L.F.	700
711-11-221	Thermoplastic (Yellow) (Solid) (6")	L.F.	700

CONFLICT TABLE												
Conflict Point	Drainage		Water		Sewer		Electrical		Cable		Gas	
	Invert Elevation	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.
CP-1	-0.48	15"			4'(A)	8"			30"(A)	6"(A)		
CP-2	-0.28	18"	4'(A)	16"					30"(A)	6"(A)		
CP-3	2.41	24"					30"(A)	6"(A)				
CP-4	0.94	18"	4'(A)	16"								
<i>Elevations of pipes were not provided by the Utility Company, therefore, standard cover was assumed.</i>												
<i>Assumed top and pipe diameter are followed by an "A".</i>												
<i>Elevations on table are in NGVD.</i>												

PROPOSED DRAINAGE STRUCTURE SCHEDULE										
Structure	Station	Type of Structure	Inside Dimension	Rim Elevations	Bottom Elevations	Pipe Invert Elevation				Remarks
						N	S	E	W	
S-1	20+20	P-6	42"x42"	6.85	-2.48				-0.48	Remove & Replace Existing Structure
MH-1	20+20	P-7T	42"φ	7.05	-2.28	2.61		-0.28		
MH-2	19+50	P-7T	42"φ	7.05	-1.61	2.61	2.41		0.39	
S-2	19+50	P-5	42"x42"	6.28	-2.38		3.28	-0.38		Remove & Replace Existing Structure
S-3	20+25	P-6	42"x42"	6.16	-0.09	1.91				Remove & Replace Existing Structure
E-1	17+00	Existing MH 48"φ	Core & tie to the south wall.				2.61			Existing Manhole to remain
E-2	15+00	Existing MH 42"φ	Existing Manhole to remain							Existing Manhole to remain
E-3	14+00	Existing MH 42"φ	Core & tie to the west walls.						2.80	Existing Manhole to remain
S-4	14+00	P-6	Remove & Replace Existing Structure							Connect Proposed structure to existing pipe
S-5	14+00	P-5	42"x42"	6.39	-2.94	-0.27		-0.94		
S-6	13+55	P-6	42"x42"	6.15	1.15		3.15			Remove & Replace Existing Structure
E-4	12+65	Existing MH 42"φ	Core & tie to the south wall.							Existing Manhole to remain



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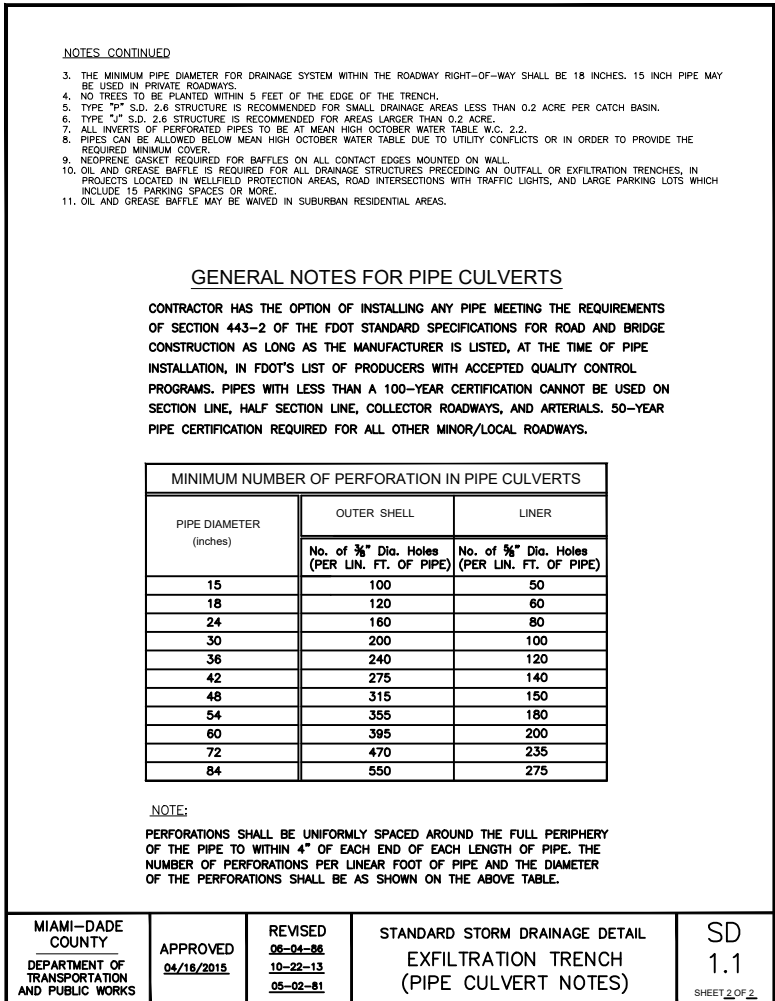
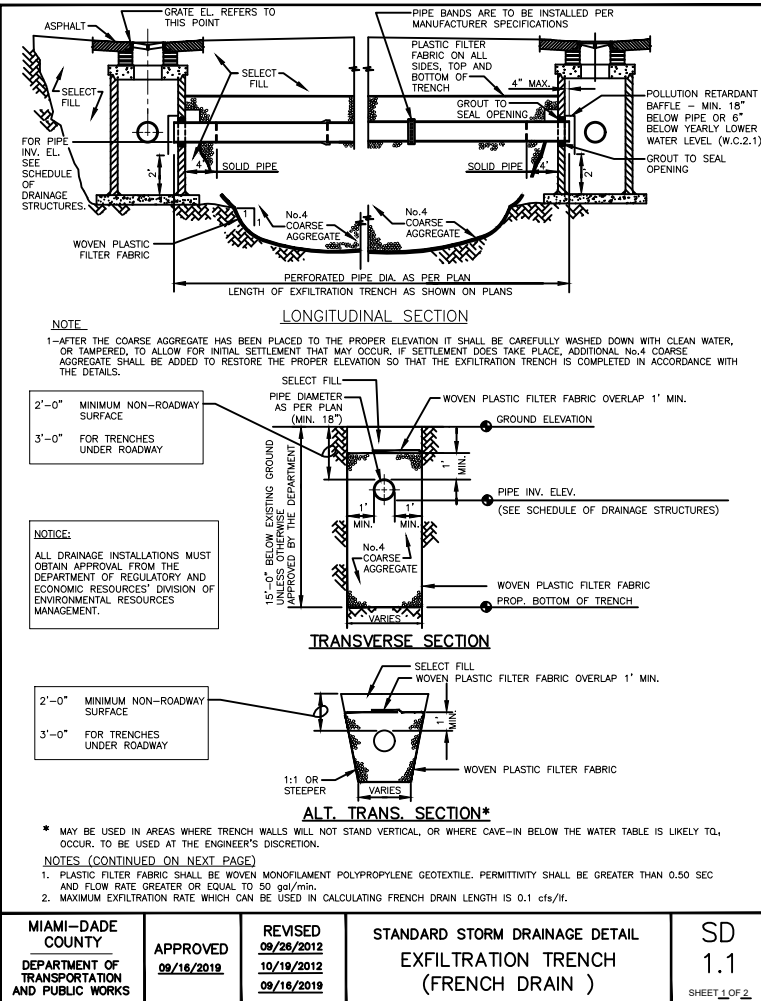
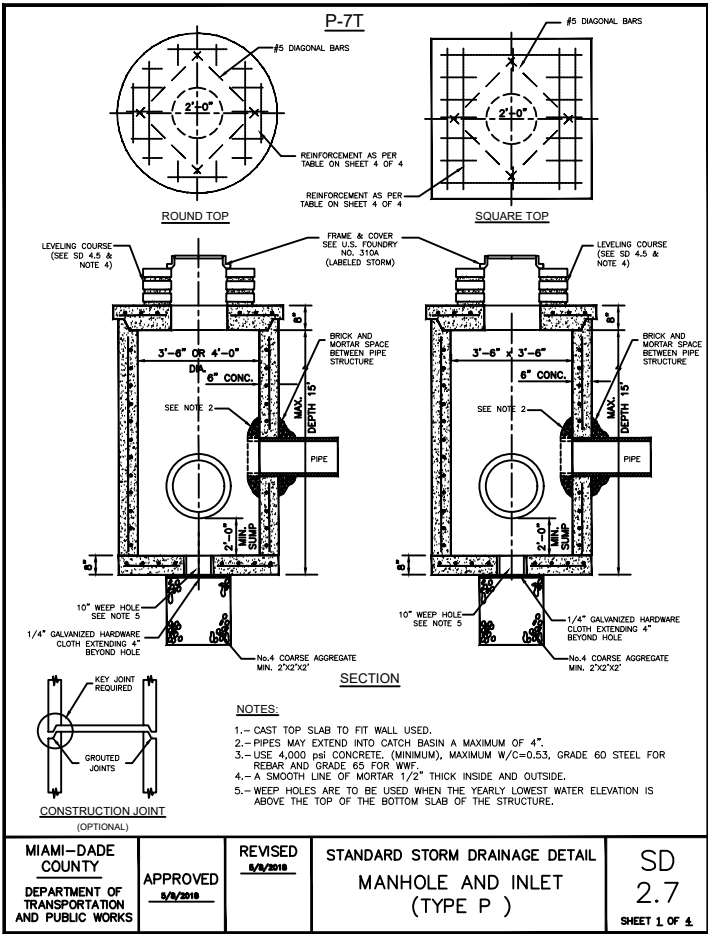
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PROPOSED DRAINAGE STRUCTURE TABLE,
CONFLICT TABLE AND
SUMMARY OF QUANTITIES



SQUARE STRUCTURE							
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Bottom Slab Thickness (in)
2.7	3.5	3.5	0.0 - 5.0	6.0	#4@10"H #4@10"V	8.0	8.0
2.7	3.5	3.5	5.1 - 10.0	6.0	#4@9"H #4@10"V	8.0	8.0
2.7	3.5	3.5	10.1 - 15.0	6.0	#5@6"H #4@10"V	8.0	8.0

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

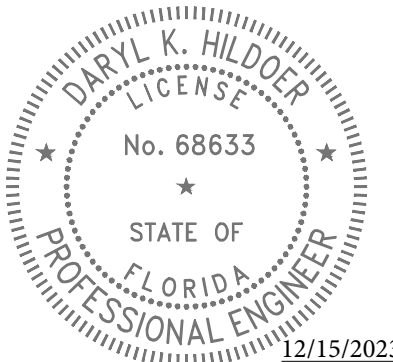
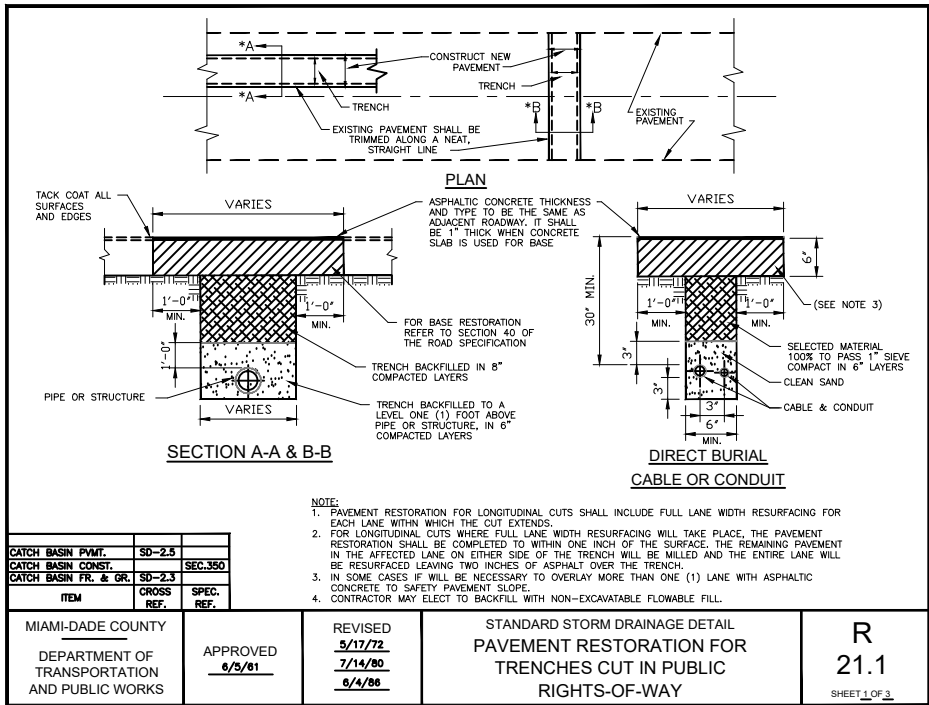
MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

APPROVED
9/9/2018

REVISED
9/9/2018

STANDARD STORM DRAINAGE DETAIL
MANHOLE AND INLET
(TYPE P)

SD 2.7
SHEET 4 OF 4



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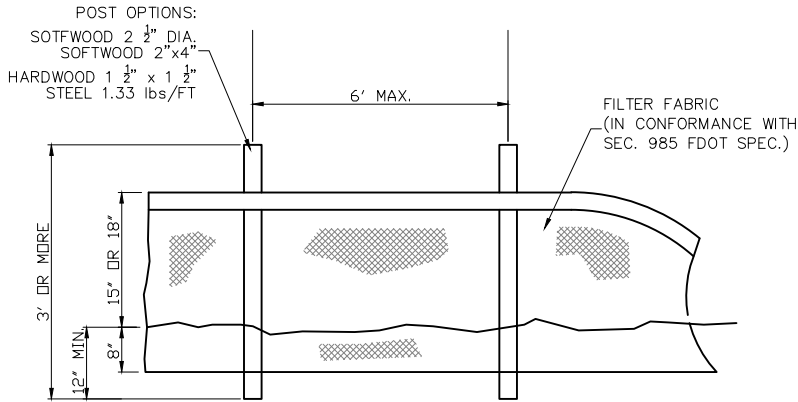
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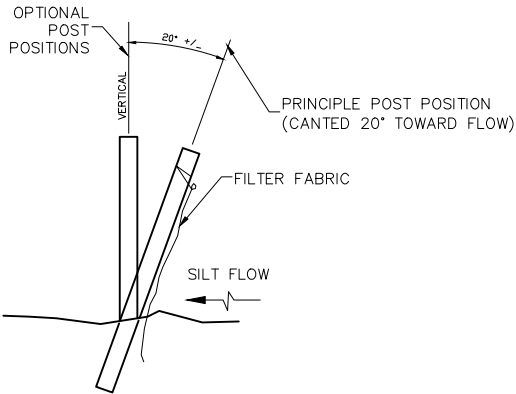


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STANDARD DETAILS

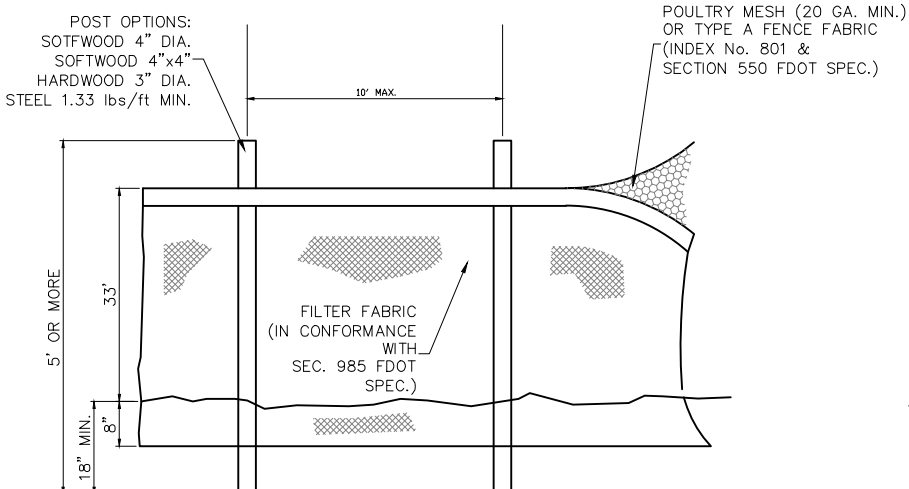


ELEVATION

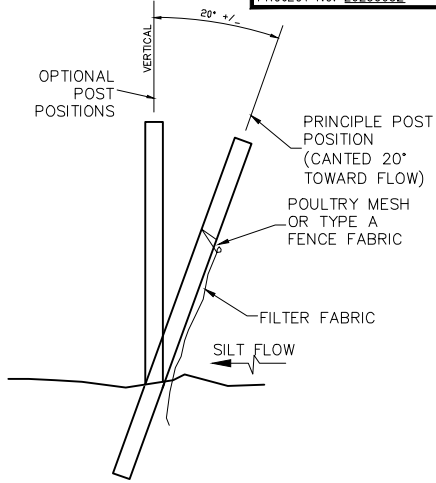


SECTION

TYPE III SILT FENCE (TYP.)

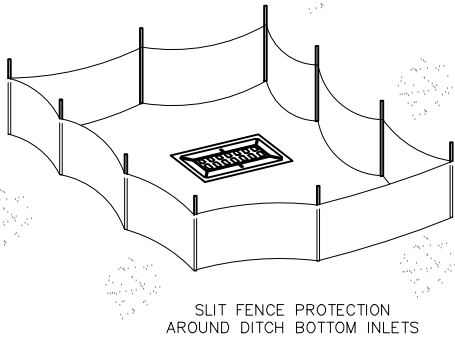
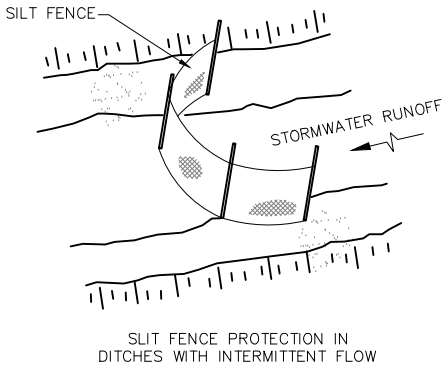
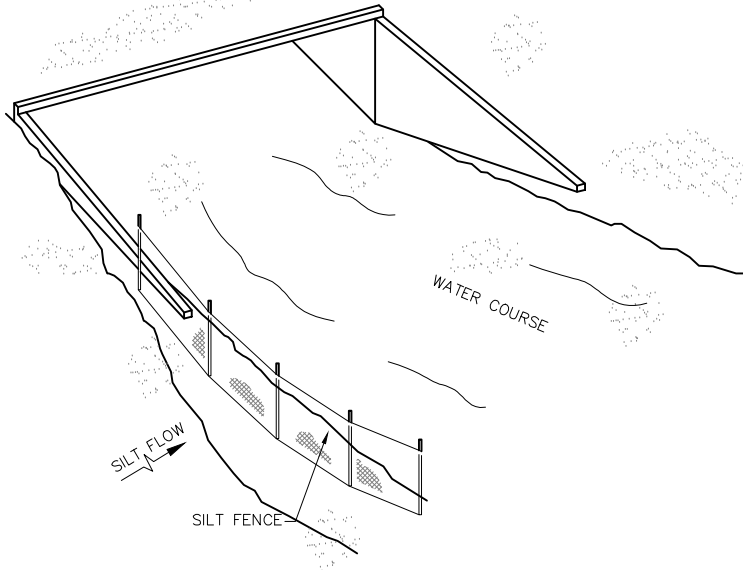


ELEVATION



SECTION

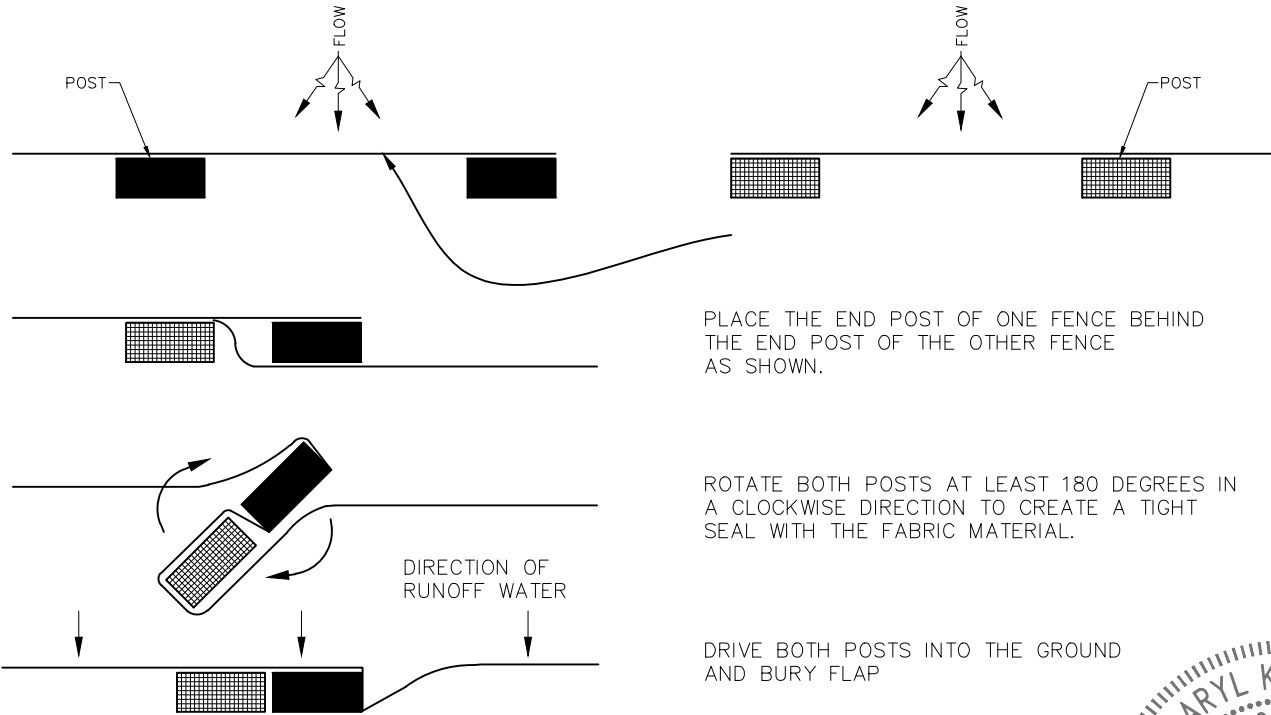
TYPE IV SILT FENCE (TYP.)



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.)

PLACE THE END POST OF ONE FENCE BEHIND THE END POST OF THE OTHER FENCE AS SHOWN.

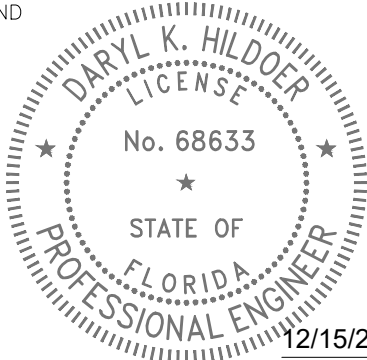
ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.

DRIVE BOTH POSTS INTO THE GROUND AND BURY FLAP

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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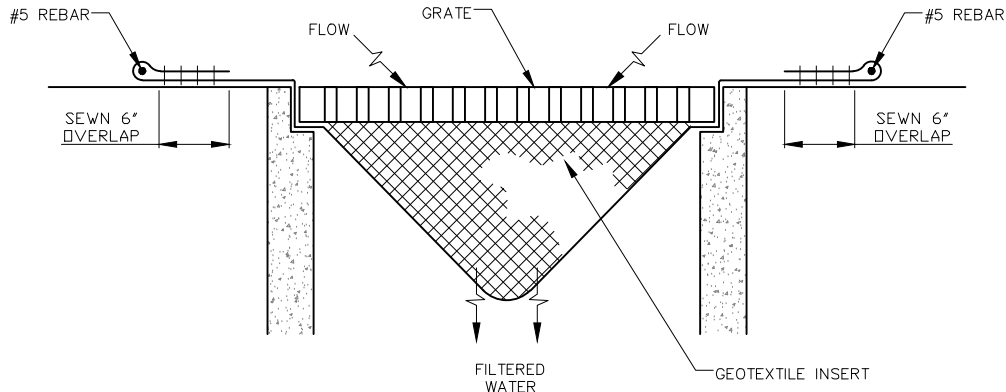
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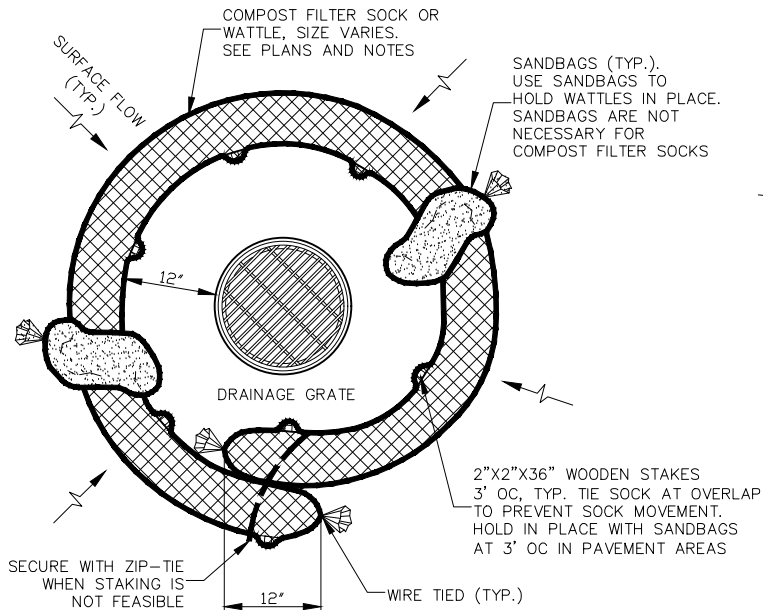


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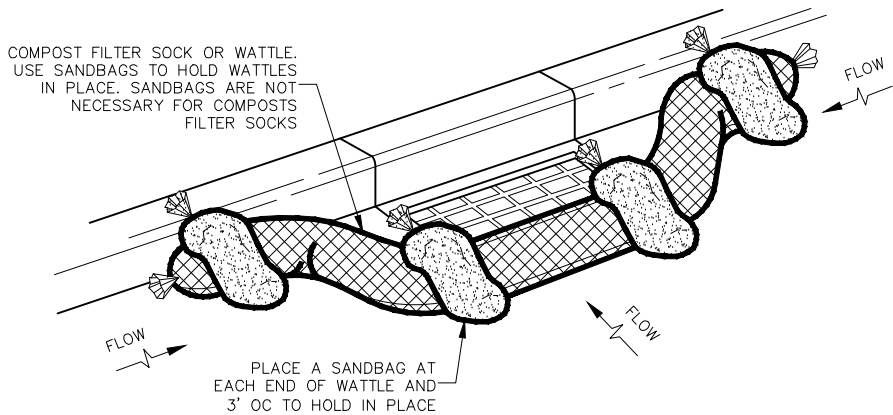
SEDIMENT BARRIERS DETAILS



PREFABRICATED FILTER INSERT - TYPE 1
NOT TO SCALE

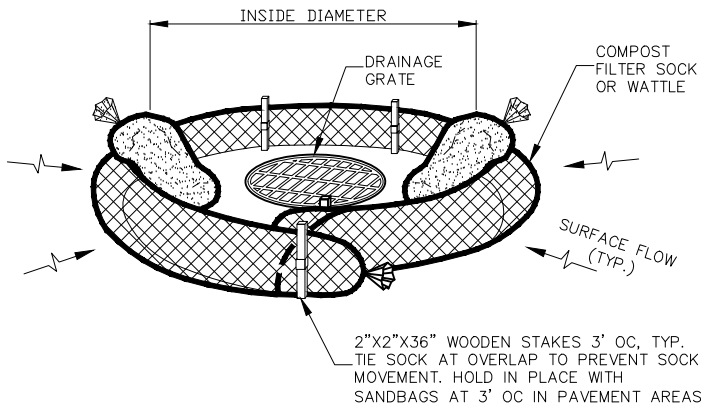


AREA DRAIN PLAN



CURB INLET PERSPECTIVE VIEW

COMPOST FILTER SOCK OR WATTLE - TYPE 2
NOT TO SCALE

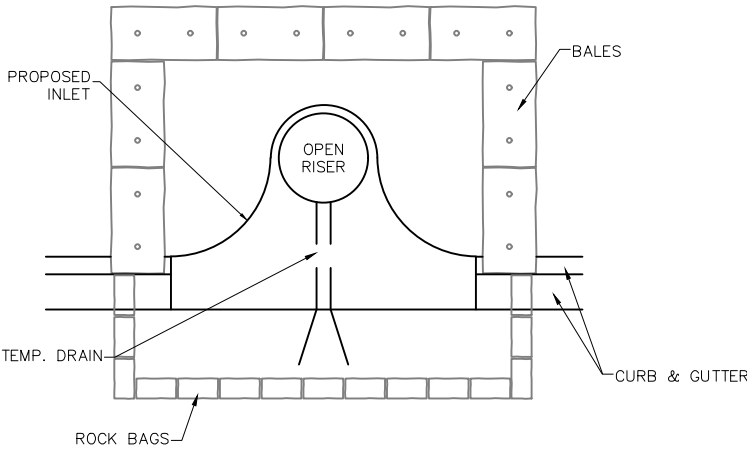


AREA DRAIN PERSPECTIVE VIEW

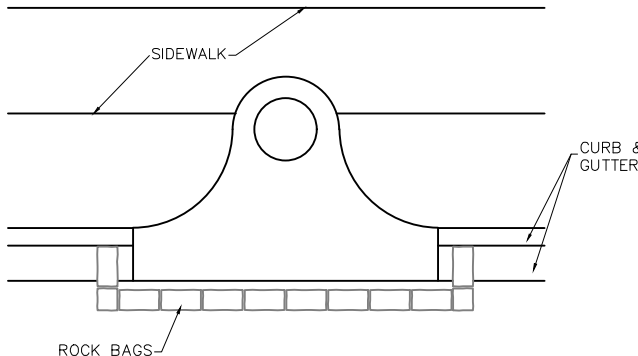
NOTES FOR PREFABRICATED FILTER INSERTS
AND FILTER SOCK

TYPE 1 – 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.

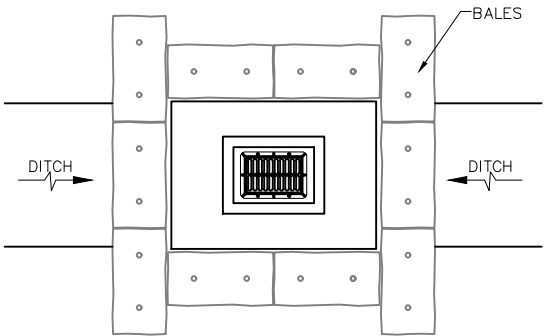
TYPE 2 – COMPOST FILTER SOCK
DRIVE 2"x2" WOOD STAKES A MINIMUM OF
6" INTO GROUND AND FLUSH WITH THE TOP
OF THE SOCK.
OVERLAP ENDS OF SOCK PER MANUFACTURERS
RECOMMENDATIONS (12" MIN., 36" MAX.).
USE 8" TO 12" DIA SOCK ON CURBSIDE IN
TRAFFIC AREAS.
USE 12" TO 18" DIA SOCK IN NON-TRAFFIC AREAS
OR AREAS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



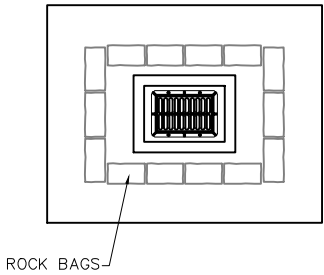
PARTIAL INLET



COMPLETED INLET



DITCH BOTTOM INLET



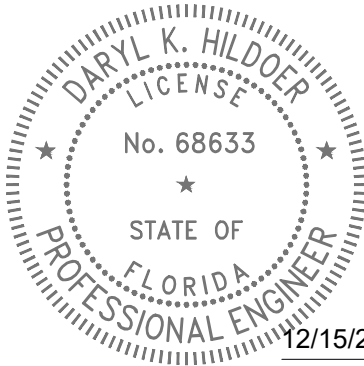
SWALE INLET

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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ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION
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INLET PROTECTION SYSTEMS DETAILS

STORMWATER POLLUTION PREVENTION PLAN