

COMPONENTS OF CONTRACT PLANS SET
ROADWAY PLANS

SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS



INDEX OF DRAINAGE PLANS

SHEET NO.	SHEET DESCRIPTION
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SQ-1 - SQ-19	SUMMARY OF QUANTITIES

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

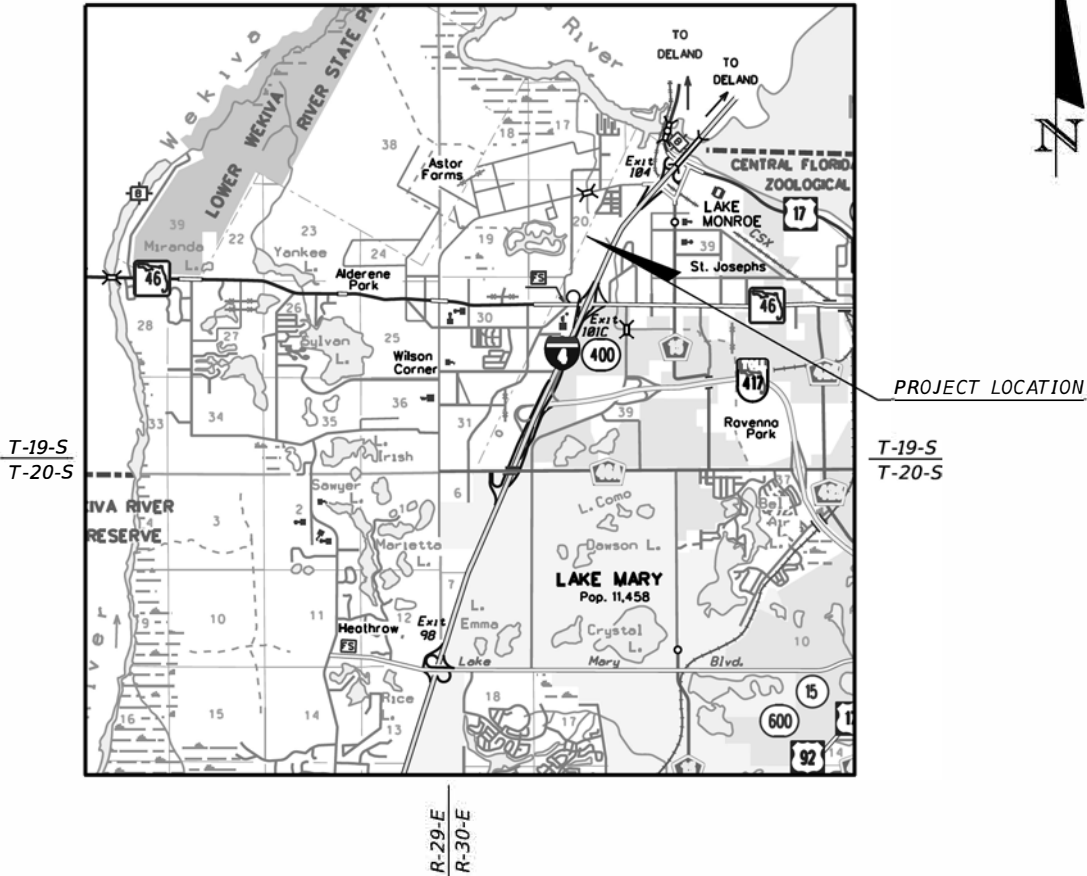
Florida Department of Transportation, July 2021 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

BOARD OF COUNTY COMMISSIONERS

BOB DALLARI	DISTRICT 1
JAY ZEMBOWER	DISTRICT 2
LEE CONSTANTINE	DISTRICT 3
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

NICOLE GUILLET, COUNTY MANAGER

SILVERLEAF SUBDIVISION UNDERDRAIN
SEMINOLE COUNTY CIP No. 01785572



PROJECT LOCATION
DISTRICT 5

PROJECT LOCATION

ROADWAY PLANS
ENGINEER OF RECORD:

DINO LUCARELLI P.E. NO. 39556
SEMINOLE COUNTY PUBLIC WORKS ENGINEERING
100 E FIRST STREET
SANFORD, FL 32771
(407) 665-5661

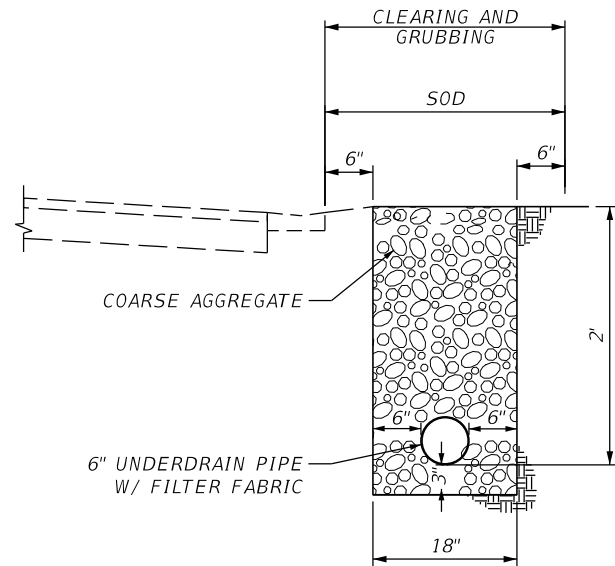
COUNTY PROJECT MANAGER:

DINO LUCARELLI, P.E.
Email: dlucarelli@seminolecountyfl.gov

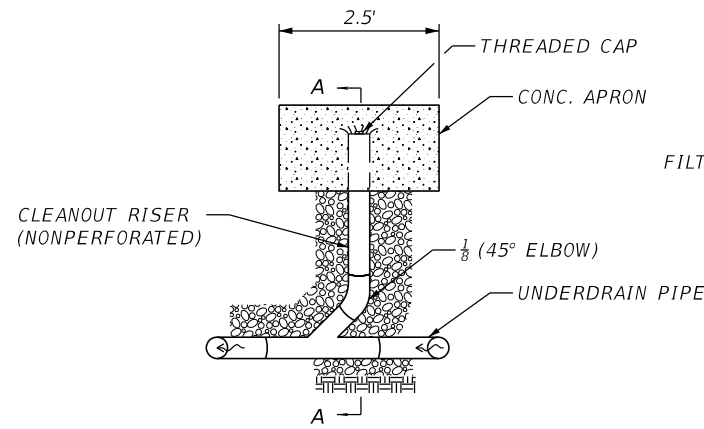
PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.

FISCAL YEAR	SHEET NO.
21	1

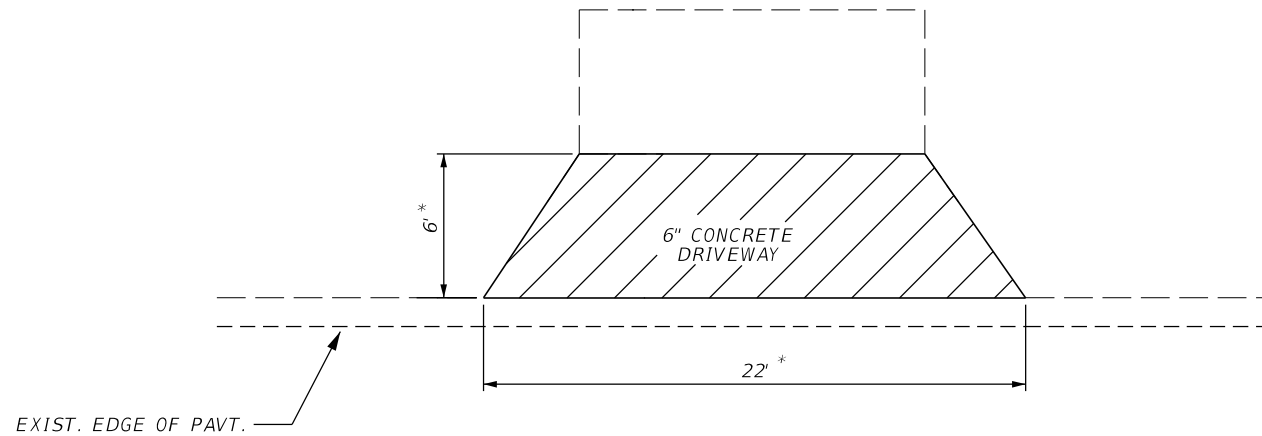
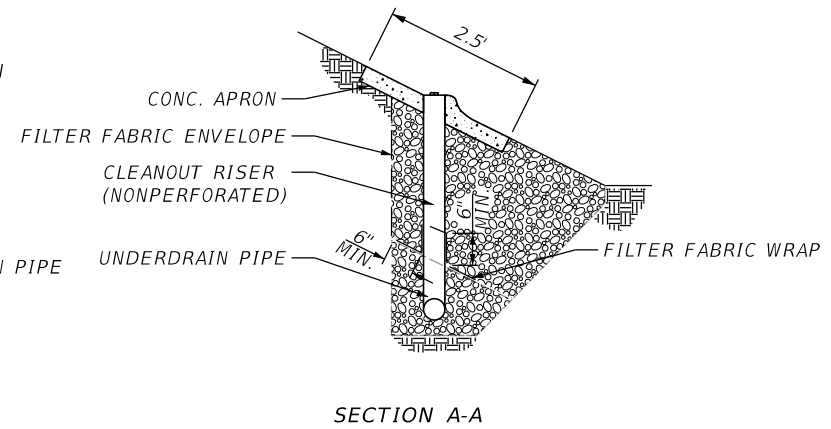
PRELIMINARY PLANS NOT FOR CONSTRUCTION



UNDERDRAIN TYPICAL DETAIL



CLEANOUT DETAIL



* UNLESS OTHERWISE NOTED IN PLANS

TYPICAL DRIVEWAY DETAIL

REVISIONS				 SEMINOLE COUNTY <u>ENGINEERING DIVISION</u> DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		<i>TYPICAL SECTION DETAILS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		
					SILVERLEAF	01785572		3



CURVE DATA GRASS1

PI STA. = 110+35.00

Δ = 90° 00' 00" (RT)

D = 76° 23' 40"

T = 75.00

L = 117.81

R = 75.00

PC STA. = 109+60.00

PT STA. = 110+77.81

CURVE DATA GRASS2

PI STA. = 112+92.81

Δ = 90° 00' 00" (RT)

D = 76° 23' 40"

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L = 117.81

R = 75.00

PC STA. = 112+17.81

PT STA. = 113+35.62

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L = 117.81

R = 75.00

PC STA. = 120+65.62

PT STA. = 121+83.43

CURVE DATA BOTTLE1

PI STA. = 129+25.42

Δ = 90° 00' 00" (RT)

D = 76° 23' 40"

T = 75.00

L = 117.81

R = 75.00

PC STA. = 128+50.42

PT STA. = 129+68.23

CURVE DATA BOTTLE2

PI STA. = 131+63.23

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D = 76° 23' 40"

T = 75.00

L = 117.81

R = 75.00

PC STA. = 130+88.23

PT STA. = 132+06.04

CONTROL POINT COORDINATE DATA

- 1

STA. 104+50.38 (13.53 LT)

NAIL & DISK

STAMPED "SSMC TRAV. PT"

NORTHING: 1630510.909

EASTING: 548001.402

ELEV: 26.39
- 2

STA. 110+25.93 (24.67 LT)

NAIL & DISK

STAMPED "SSMC TRAV. PT"

NORTHING: 1630487.121

EASTING: 548587.839

ELEV: 26.10
- 3

STA. 113+07.87 (11.42 LT)

NAIL & DISK

STAMPED "SSMC TRAV. PT"

NORTHING: 1630202.884

EASTING: 548542.884

ELEV: 26.39
- 4

STA. 121+25.03 (13.77 LT)

NAIL & DISK

STAMPED "SSMC TRAV. PT"

NORTHING: 1630219.473

EASTING: 547718.406

ELEV: 26.52
- 5

STA. 128+72.97 (24.35 LT)

NAIL & DISK

STAMPED "SSMC TRAV. PT"

NORTHING: 1630978.171

EASTING: 547685.203

ELEV: 27.09
- 6

STA. 131+34.71 (37.38 LT)

5/8"

IRON ROD

STAMPED "SSMC TRAV. PT"

NORTHING: 1631040.791

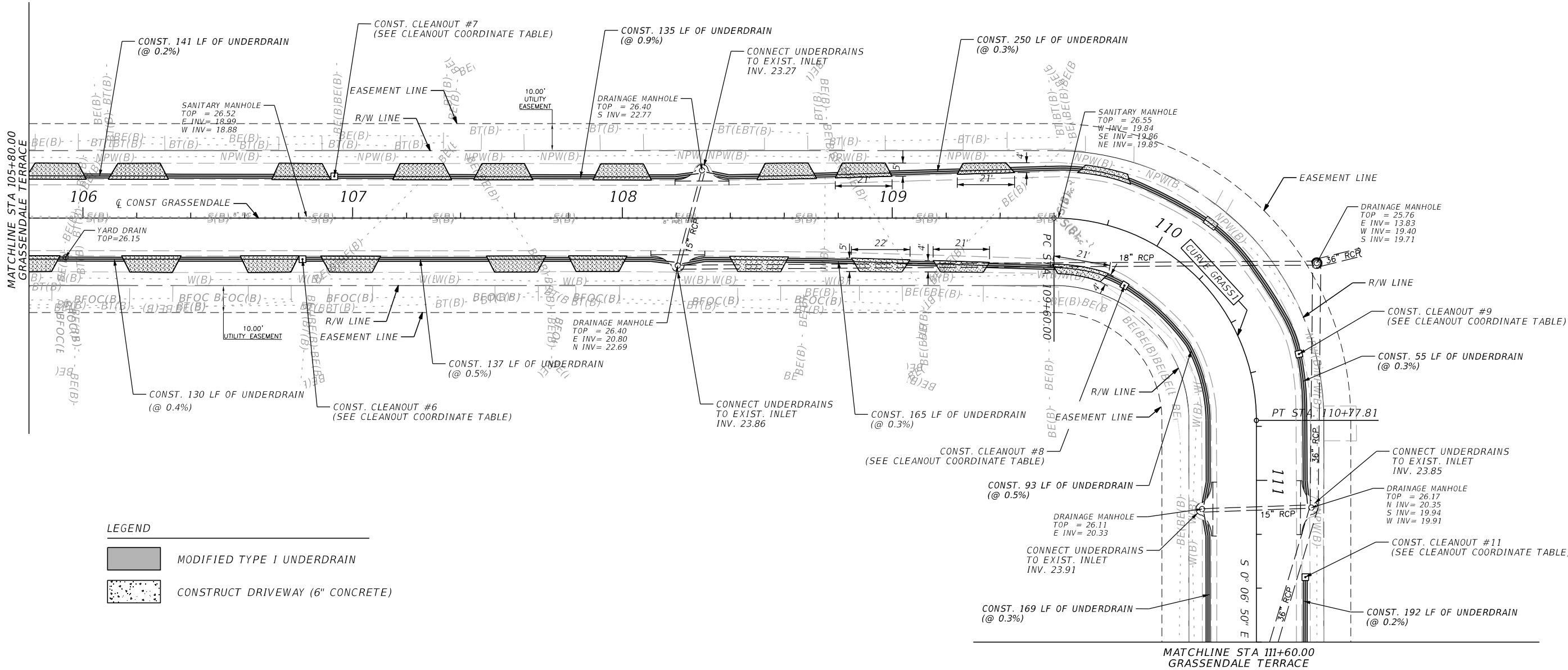
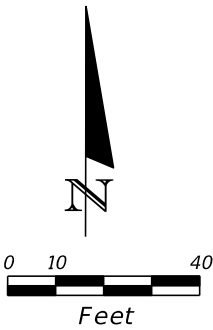
EASTING: 547965.237

ELEV: 26.84

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		PROJECT LAYOUT AND CONTROL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		4
					SILVERLEAF	01785572		

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Δ = 90° 00' 00" (RT)
D = 76° 23' 40"
T = 75.00
L = 117.81
R = 75.00
PC STA. = 109+60.00
PT STA. = 110+77.81

CLEANOUT COORDINATION TABLE				
POINT ID	NORTHING	EASTING	NVERT	REMARKS
6	1630482.559	548232.475	24.51	
7	1630513.314	548244.230	24.50	
8	1630473.457	548537.210	24.35	
9	1630448.172	548601.916	24.02	
11	1630365.504	548604.433	24.13	

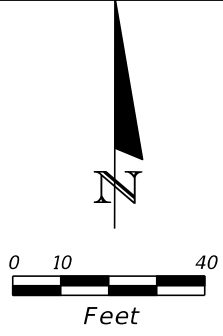


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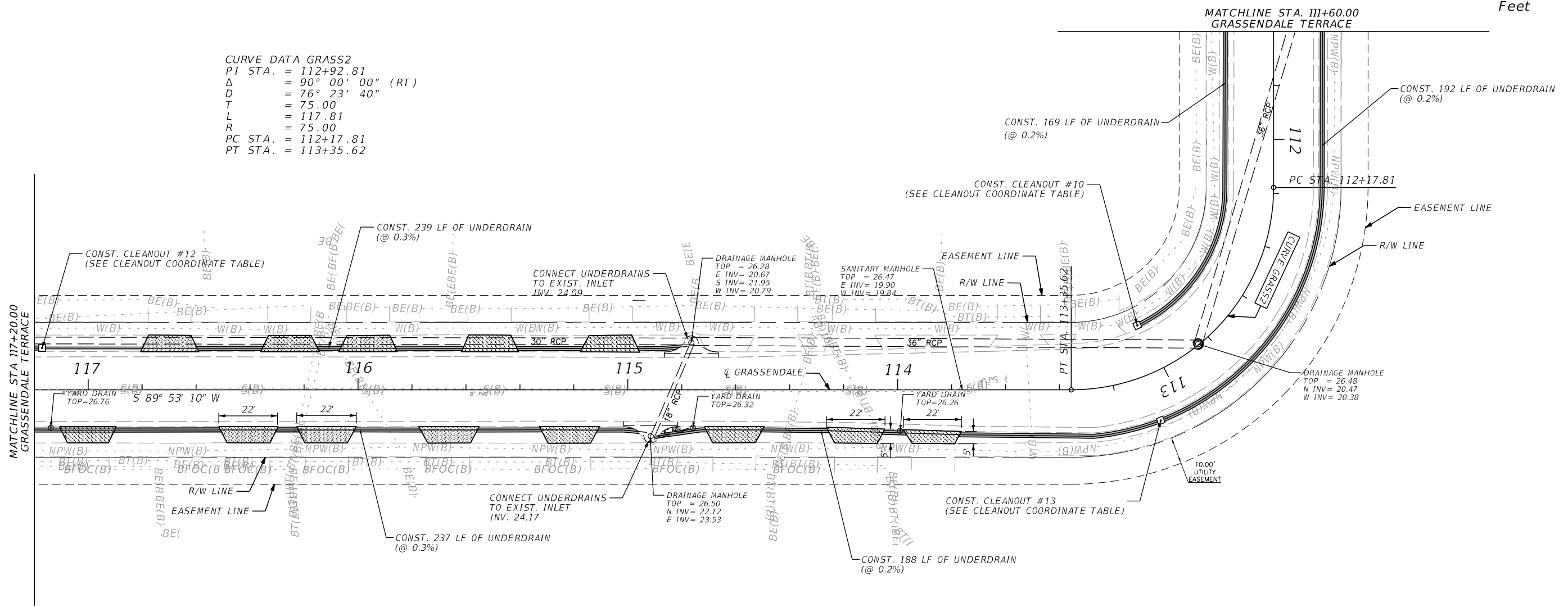
MODIFIED TYPE I UNDERDRAIN

CONSTRUCT DRIVEWAY (6" CONCRETE)

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		<i>PLAN SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		
					SILVERLEAF	01785572		
							7	



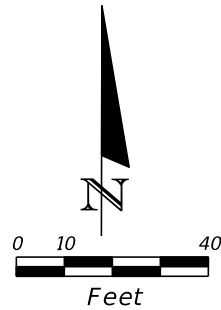
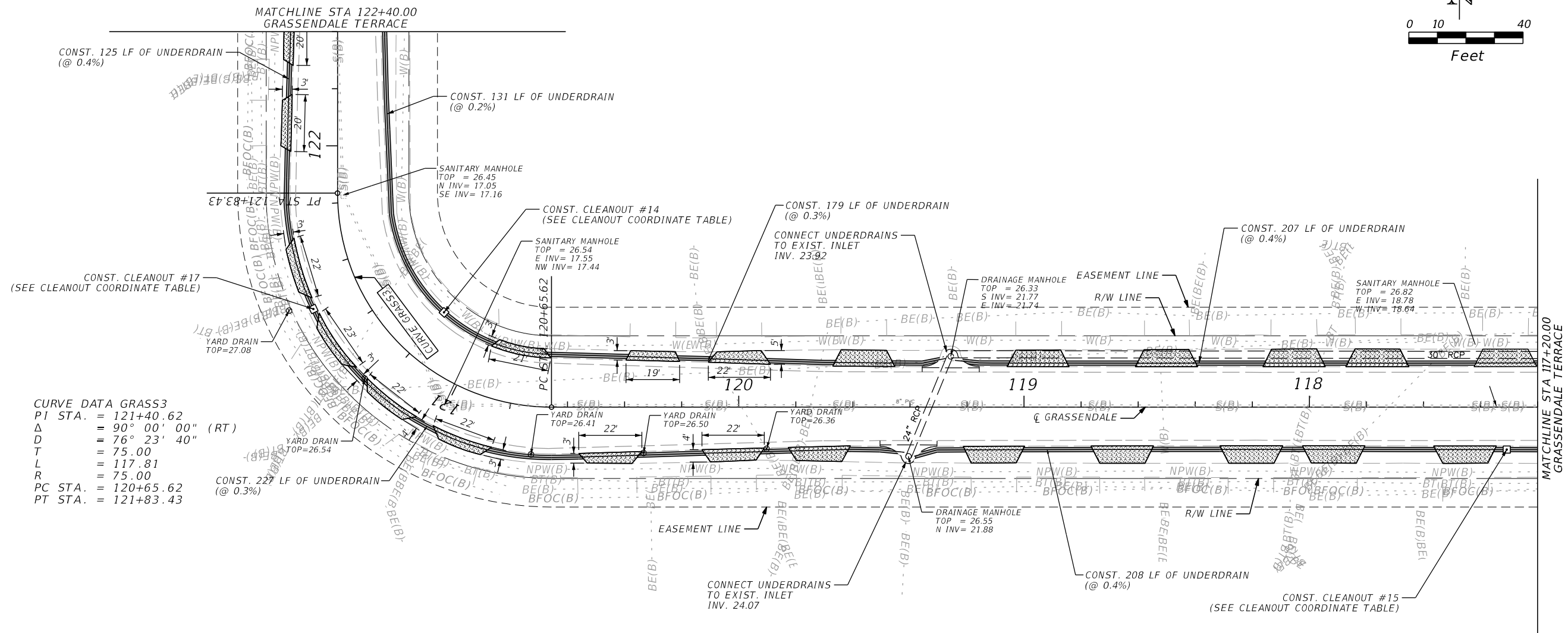
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Δ = 90° 00' 00" (RT)
D = 76° 23' 40"
T = 75.00
L = 117.81
R = 75.00
PC STA. = 112+17.81
PT STA. = 113+35.62



CLEANOUT COORDINATION TABLE				
POINT ID	NORTHING	EASTING	NVERT	REMARKS
10	1630232.324	548536.055	24.42	
13	1630197.087	548544.821	24.52	
12	1630223.120	548130.124	24.81	

LEGEND	
	MODIFIED TYPE I UNDERDRAIN
	CONSTRUCT DRIVEWAY (6" CONCRETE)

REVISIONS				 SEMINOLE COUNTY <u>ENGINEERING DIVISION</u> DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		PLAN SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		8
					SILVERLEAF	01785572		



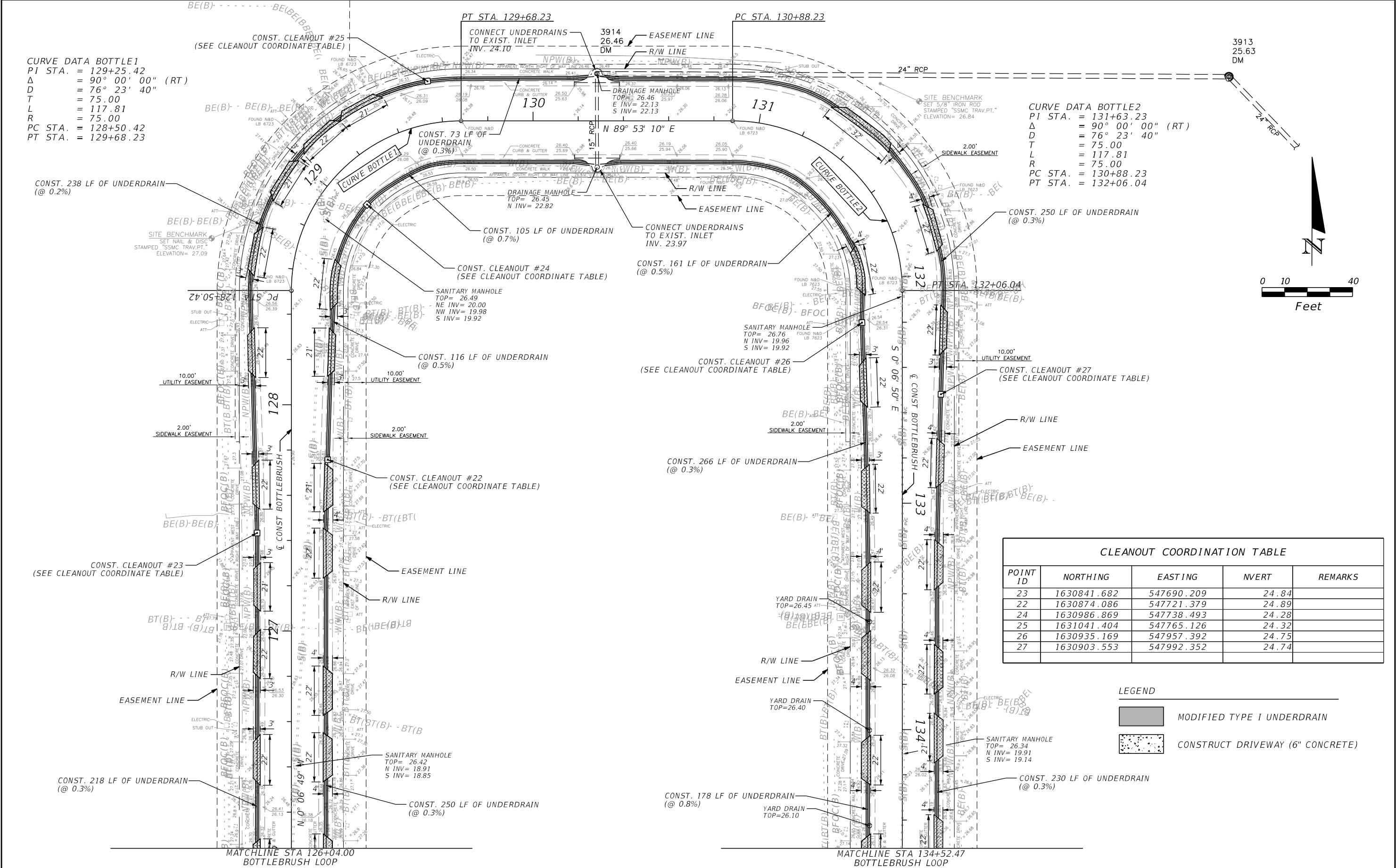
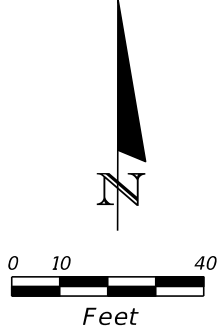
CLEANOUT COORDINATION TABLE				
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15	1630192.731	548116.452	24.88	
14	1630240.082	547743.890	24.46	
17	1630241.161	547698.098	24.75	

LEGEND	
	MODIFIED TYPE I UNDERDRAIN
	CONSTRUCT DRIVEWAY (6" CONCRETE)

REVISIONS				 SEMINOLE COUNTY <u>ENGINEERING DIVISION</u> DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		<i>PLAN SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		9
					SILVERLEAF	01785572		

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PI STA. = 129+25.42
Δ = 90° 00' 00" (RT)
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L = 117.81
R = 75.00
PC STA. = 128+50.42
PT STA. = 129+68.23

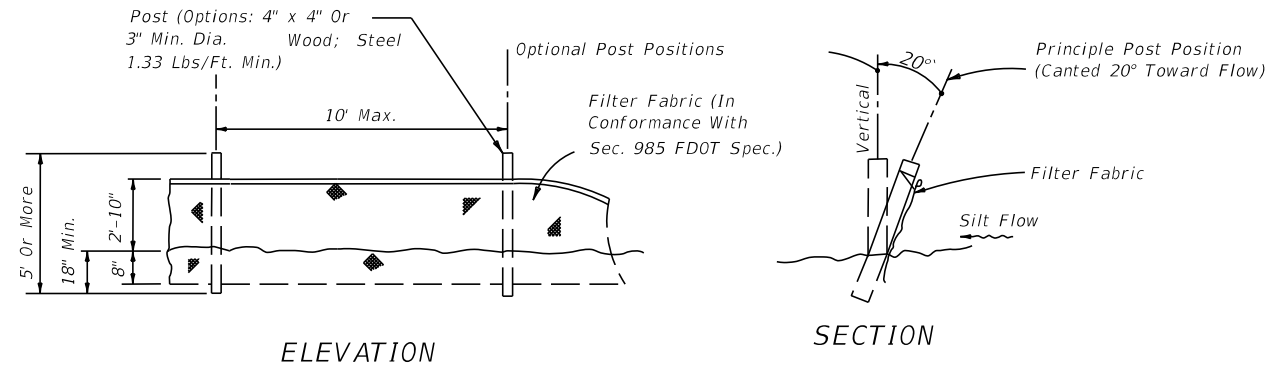
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R = 75.00
PC STA. = 130+88.23
PT STA. = 132+06.04



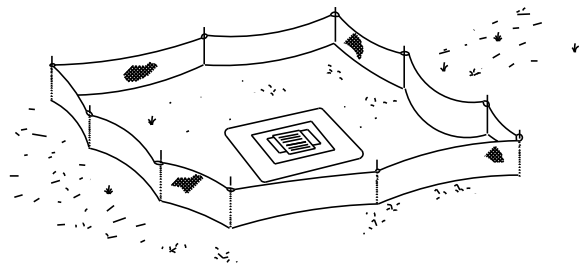
CLEANOUT COORDINATION TABLE				
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23	1630841.682	547690.209	24.84	
22	1630874.086	547721.379	24.89	
24	1630986.869	547738.493	24.28	
25	1631041.404	547765.126	24.32	
26	1630935.169	547957.392	24.75	
27	1630903.553	547992.352	24.74	

LEGEND	
	MODIFIED TYPE I UNDERDRAIN
	CONSTRUCT DRIVEWAY (6" CONCRETE)

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		PLAN SHEET	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		
					SILVERLEAF	01785572		



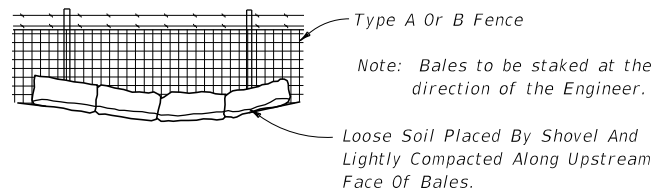
TYPE IV SILT FENCE



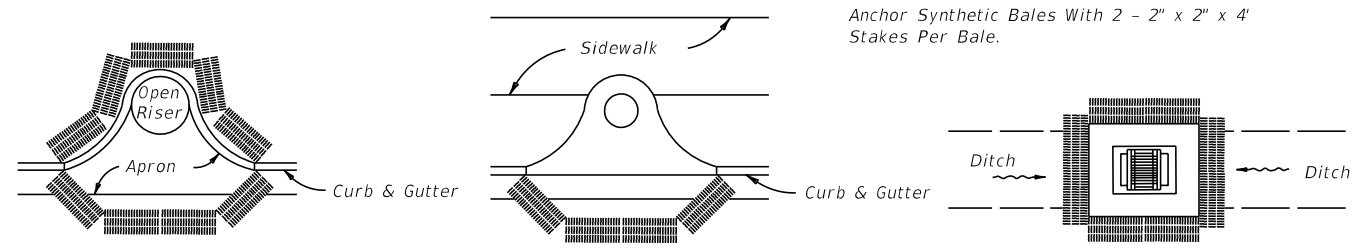
Type IV Silt Fence Protection
Around Ditch Bottom Inlets.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SYNTHETIC BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3. THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
4. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. (SEE NOTE 16).
5. AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.
6. THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
7. IF AFTER 14 DAYS, THE TEMPORARY GRASSES AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.
8. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
9. ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
13. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
14. PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS, AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.
15. ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN "SECTION 104," F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION. SIDE SLOPE MAY BE SEEDED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISC HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 4:1 NOR PART OF A DRAINAGE CONVEYANCE.
16. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 104 PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION.



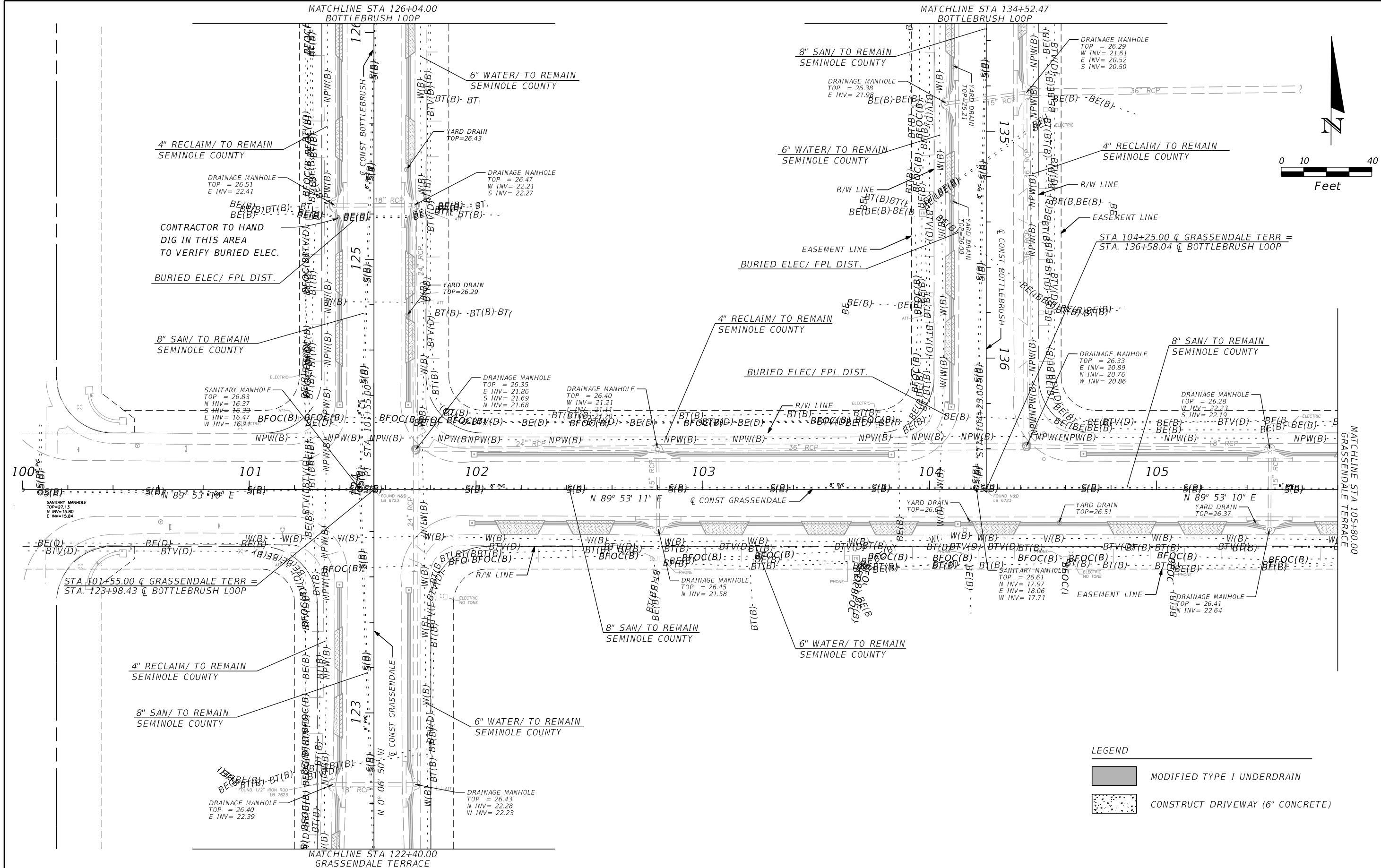
PARTIAL INLET

COMPLETED INLET

DITCH BOTTOM INLET

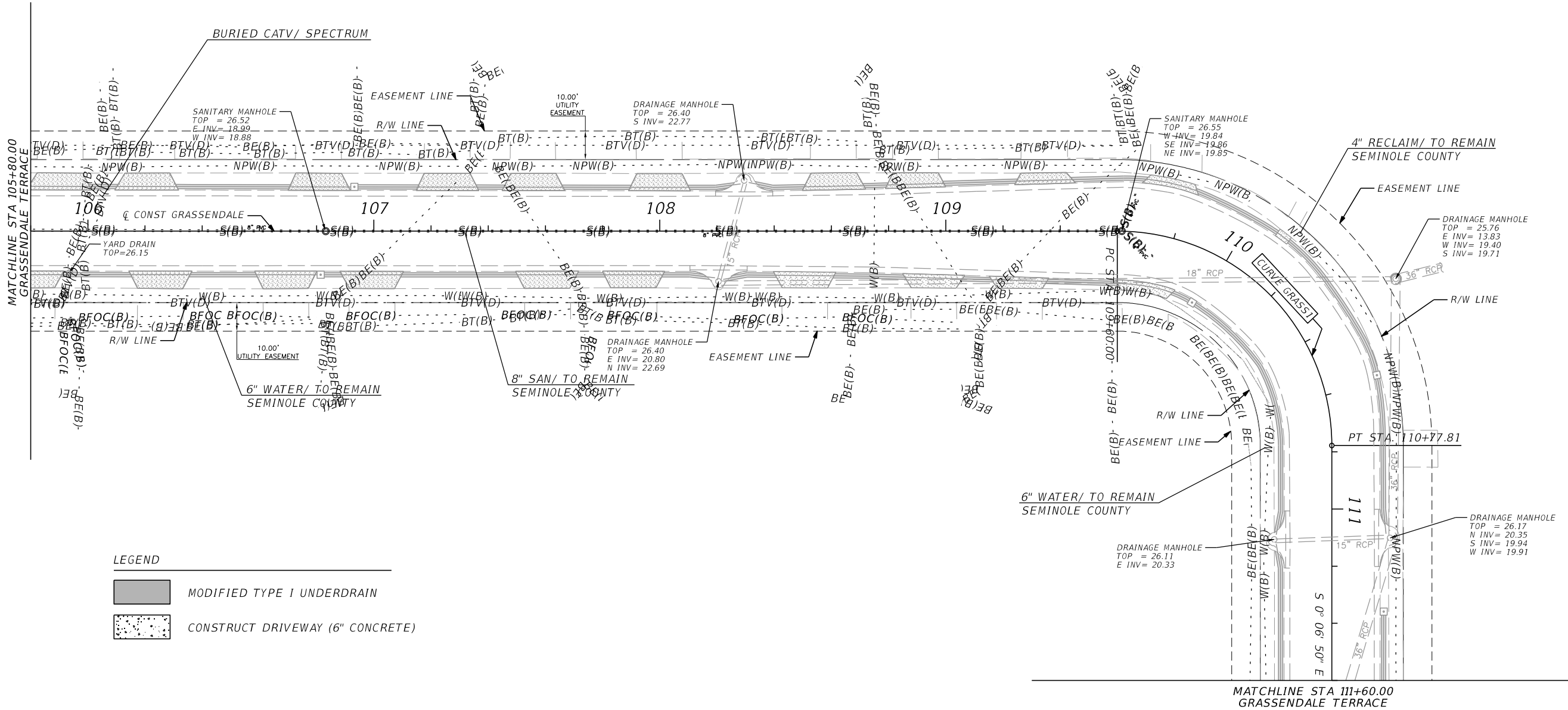
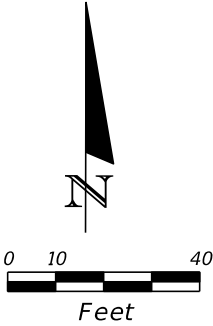
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, FL 32771	SEMINOLE COUNTY ENGINEERING DIVISION		EROSION CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		13
					SILVERLEAF	01785572		



REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION DINO LUCARELLI P.E. No. 39556 100 East 1st. Street Sanford, Fl 32771	SEMINOLE COUNTY ENGINEERING DIVISION		<i>UTILITY ADJUSTMENT SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		14
					SILVERLEAF	01785572		

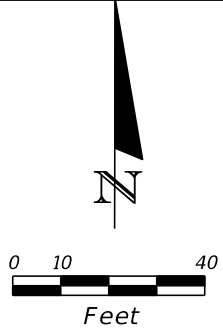
CURVE DATA GRASS1
PI STA. = 110+35.00
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D = 76° 23' 40"
T = 75.00
L = 117.81
R = 75.00
PC STA. = 109+60.00
PT STA. = 110+77.81



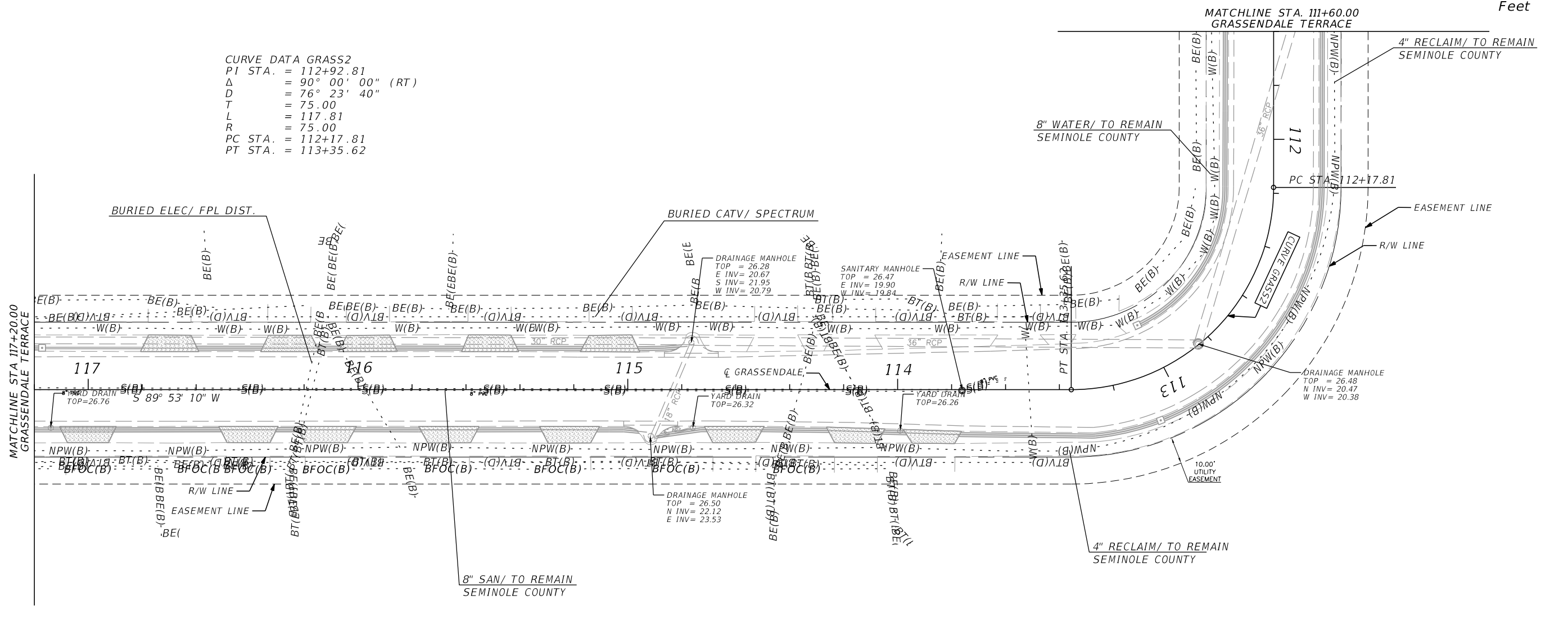
LEGEND

	MODIFIED TYPE I UNDERDRAIN
	CONSTRUCT DRIVEWAY (6" CONCRETE)

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENT SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		
					SILVERLEAF	01785572		15

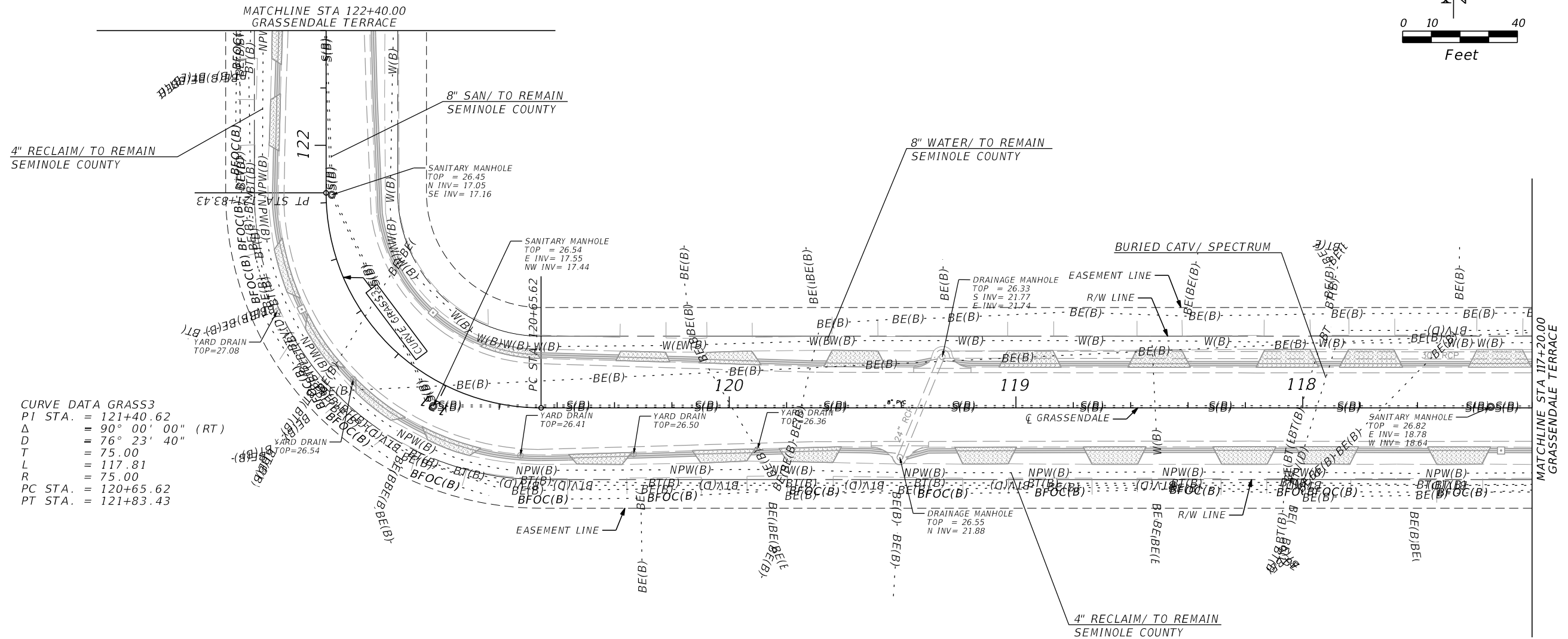


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D = 76° 23' 40"
T = 75.00
L = 117.81
R = 75.00
PC STA. = 112+17.81
PT STA. = 113+35.62



- LEGEND
- MODIFIED TYPE I UNDERDRAIN
 -

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENT SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		
					SILVERLEAF	01785572		16



CURVE DATA GRASS3

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T	= 75.00
L	= 117.81
R	= 75.00
PC STA.	= 120+65.62
PT STA.	= 121+83.43

LEGEND	
	MODIFIED TYPE I UNDERDRAIN
	CONSTRUCT DRIVEWAY (6" CONCRETE)

REVISIONS				 SEMINOLE COUNTY ENGINEERING DIVISION	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENT SHEET	SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		SUBDIVISION	COUNTY CIP No.		
					SILVERLEAF	01785572		

SEMINOLE COUNTY
ENGINEERING DIVISION
DINO LUCARELLI
P.E. No. 39556
100 East 1st. Street
Sanford, FL 32771

1/3/2022 1:39:02 PM T:\Engineering\Projects_CIP\01785572_Silverleaf_Subdivision_Drainage\3. DESIGN\CADD