

COMPONENTS OF CONTRACT PLANS SET
ROADWAY PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
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6-17	PLAN SHEETS
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39-45	DRIVEWAY CROSS SECTIONS
46	STORMWATER POLLUTION PREVENTION PLAN
SQ-1 - SQ-5	SUMMARY OF QUANTITIES

GOVERNING STANDARDS AND SPECIFICATIONS:
SEMINOLE COUNTY'S DIVISION I STANDARD SPECIFICATIONS,
GENERAL CONDITIONS, DATED NOVEMBER 2012 FLORIDA
DEPARTMENT OF TRANSPORTATION, SPECIFICATIONS FOR
ROAD AND BRIDGE CONSTRUCTION, DIVISIONS II
"CONSTRUCTION DETAILS" & DIVISION III "MATERIALS", DATED
JULY 2021, AND STANDARD PLANS, DATED FY 2021-22, AS
AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS"
LINK AT THE FOLLOWING WEBSITE:
<http://www.fdot.gov/roadway/DS/18/STDs.shtm>

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
CLICK ON THE "SPECIFICATIONS" LINK 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 (CHAIRMAN)	DISTRICT 3
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

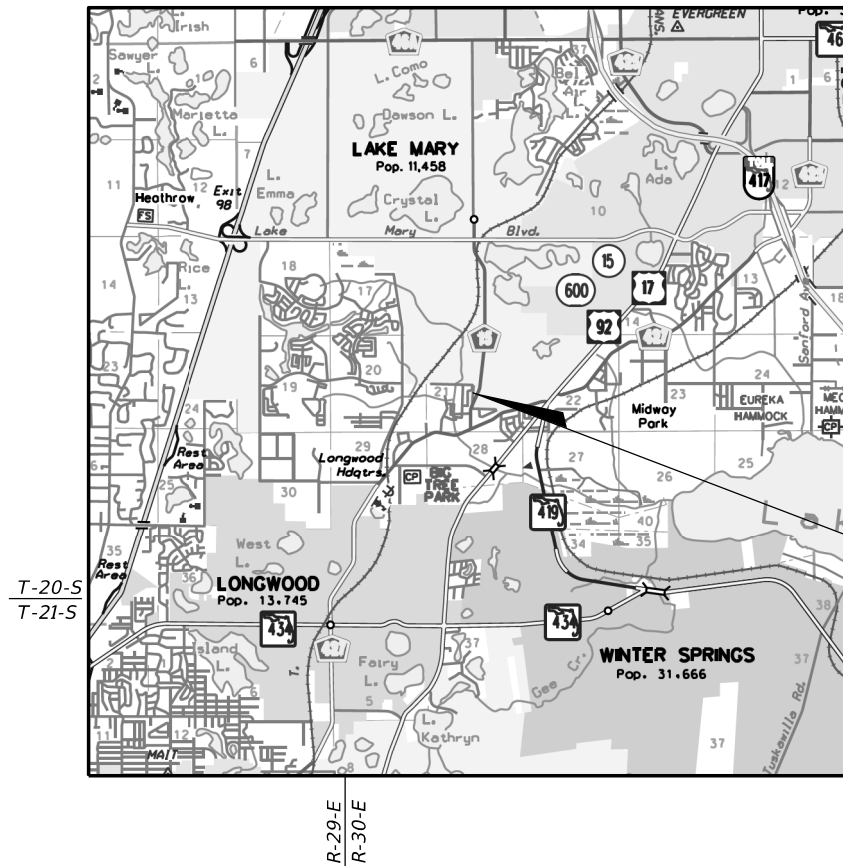
JOSEPH R. ABEL, INTERIM COUNTY MANAGER

SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS



HOWARD BLVD SIDEWALK
SEMINOLE COUNTY CIP No. 02107075



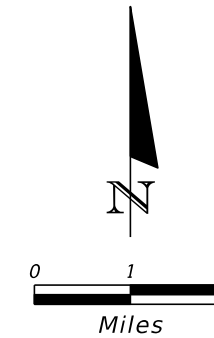
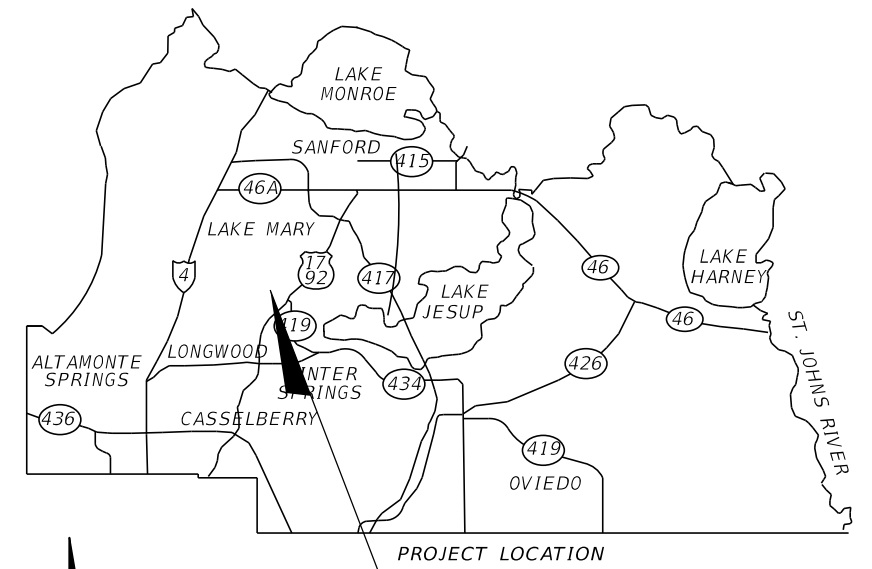
T-20-S
T-21-S

R-29-E
R-30-E

PROJECT LENGTH IS BASED ON \varnothing OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
SIDEWALK	3048.24	0.56
BRIDGES		
NET LENGTH OF PROJECT	3048.24	0.56
EXCEPTIONS		
GROSS LENGTH OF PROJECT	3048.24	0.56

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.



NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

QC STAMP-In House Projects		
Submittal: Final		
Step	By	Date
Origination	1/3/21	RIP
Checked Correct – Yellow Highlight Change – Red Comments		
Concurrence Agree – Green Check No Change – Green 'X'		
Changes Made Green Highlight		
Changes Verified Blue Check		

ROADWAY PLANS
ENGINEER OF RECORD: DAVID MARTIN

P.E. NO.: 46744

FISCAL YEAR	SHEET NO.
2021	1

SUMMARY OF PAY ITEMS

ITEM NUMBER	ITEM	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
102-99	CHANGEABLE VARIABLE MESSAGE SIGN (TEMPORARY)	ED	14
104-10-3	SEDIMENT BARRIER	LF	2377
104-18	INLET PROTECTION SYSTEM	EA	3
110-1-1	CLEARING AND GRUBBING	LS	1
110-4-1	REMOVAL OF EXISTING CONCRETE	SY	775
120-3	LATERAL DITCH EXCAVATION	CY	486
120-6	EMBANKMENT	CY	90
430-174-215-A	ELLIPTICAL CONCRETE PIPE CULVERT(CLASS HE-III)(12"X18")	LF	126
430-982-623-A	MITERED END SECTION(CONCRETE PIPE ELLIPTICAL)(12"X18")	EA	4
520-1-10	CONCRETE CURB & GUTTER (TYPE F)	LF	74
520-2-4	CONCRETE CURB (TYPE D)	LF	11
522-1	CONCRETE SIDEWALK 4" THICK	SY	1420
522-2	CONCRETE SIDEWALK 6" THICK	SY	1039
527-2	DETECTABLE WARNING (PERFORMED THERMOPLASTIC)	SF	59
570-1-2	PERFORMANCE TURF, SOD	SY	3188
700-1-50	SINGLE POST SIGN (RELOCATE)	AS	2
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID 12" FOR CROSSWALK	LF	117

102-1 INCLUDES ALL ITEMS AND LABOR NECESSARY FOR THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN DESIGNED BY THE CONTRACTOR AND APPROVED BY SEMINOLE COUNTY ENGINEERING. THE CONTRACTOR SHALL NOTIFY SURROUNDING RESIDENCES AND BUSINESSES OF THE CONSTRUCTION BY FLYER PROVIDED BY SEMINOLE COUNTY.

102-99 INCLUDES COST FOR 2 PCMS TO BE SET-UP 7 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE LOCATION WITH SEMINOLE COUNTY PROJECT MANAGER.

110-1-1 INCLUDES THE COST OF REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, SUCH AS ALL VEGETATION, DEBRIS, TRIMMING OF TREES AND SHRUBS, ROOT REMOVAL, WALL, FENCES, DRAIN FIELDS PIPE, PAVEMENT, AND OTHER ITEMS, IN ORDER TO CONSTRUCT THE PROJECT. NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL FROM THE SEMINOLE COUNTY PROJECT MANAGER.

110-1-1 INCLUDES THE CUTS FOR SAWCUTTING EXISTING PAVEMENT OR CONCRETE REMOVAL AND THE COST OF STORMWATER DRAINAGE STRUCTURE REMOVAL AS INDICATED BY THE PLANS.


110-1-1 INCLUDES THE COST OF IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEER INSPECTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ALL DAMAGED IRRIGATION COMPONENTS TO THE PRE-CONSTRUCTION CONDITION AT HIS EXPENSE PRIOR TO COMPLETION OF THE PROJECT.

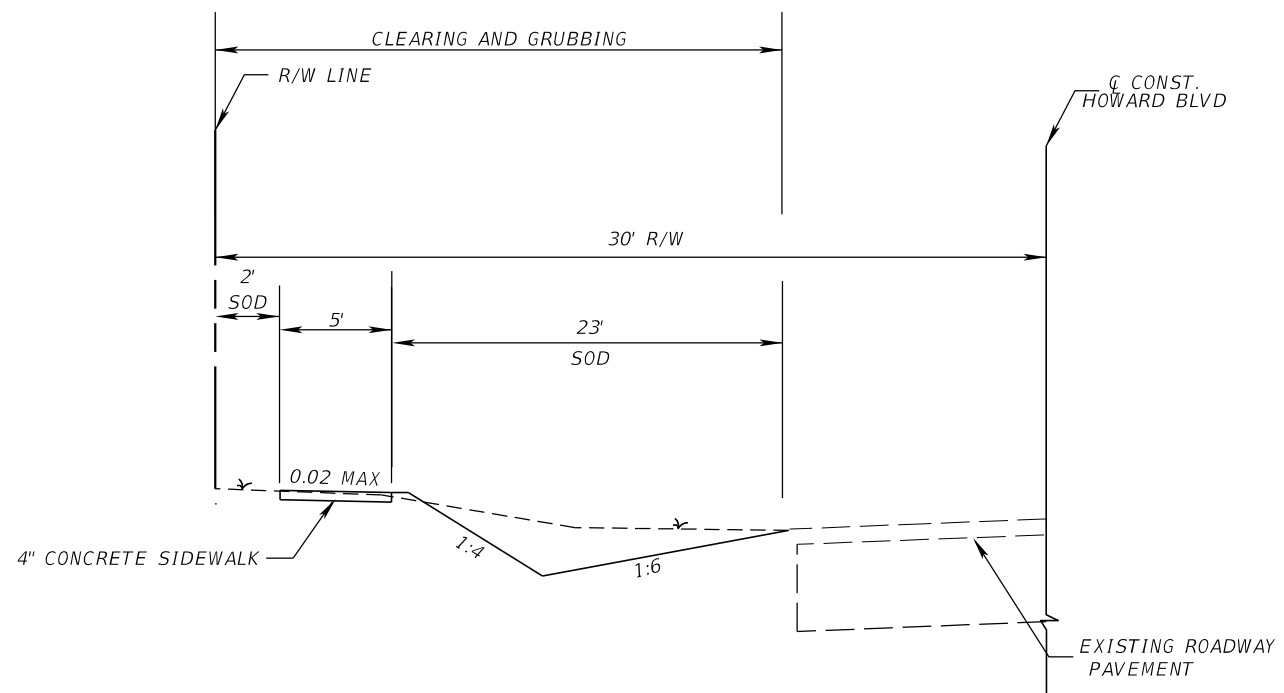
120-6 UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE CONSTRUCTION AREAS AND BACK FILLED WITH SUITABLE MATERIALS. UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.

520-1-10 INCLUDES THE COST FOR PAVEMENT DAMAGE REPLACEMENT RESULTING FROM INSTALLATION OF THE PROPOSED CURB AND GUTTER.


570-1-2 INCLUDES THE COST AND APPLICATION OF FERTILIZER AND WATER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TYPES OF SOD MAY VARY. CONTRACTOR TO MATCH EXISTING SOD.

700-1-50 INCLUDES THE COST OF NEW POST IF NECESSARY TO MEET THE STANDARD MOUNTING HEIGHT REQUIREMENTS.

REVISIONS			 SEMINOLE COUNTY <small>FLORIDA'S NATURAL CHOICE</small>	SEMINOLE COUNTY ENGINEERING DIVISION		<p align="center">SUMMARY OF PAY ITEMS</p>	SHEET NO. 2
DATE	DESCRIPTION	ROAD		COUNTY CIP No.			
		HOWARD BLVD	02107075				



TYPICAL SECTION
HOWARD BLVD
STA. 12+16.03 TO STA. 42+64.27 (LT)

REVISIONS			 SEMINOLE COUNTY <small>FLORIDA'S NATURAL CHOICE</small>	SEMINOLE COUNTY ENGINEERING DIVISION		<i>TYPICAL SECTIONS</i>	SHEET NO.
DATE	DESCRIPTION	ROAD		COUNTY CIP No.	3		
			DAVID MARTIN P.E. No. 46744 100 East 1st. Street Sanford, FL 32771	HOWARD BLVD	02107075		



① SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=46.19

④ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=45.99

⑨ SITE BENCHMARK
SET 5/8" IRON ROD
"SSMC TRAV. PT."
ELEVATION=49.46

CURVE DATA C1
 PI STA. = 39+13.14
 Δ = 21° 37' 00" (RT)
 D = 10° 06' 59"
 T = 108.13
 L = 213.68
 R = 566.37
 PC STA. = 38+05.01
 PT STA. = 40+18.70

② SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=51.09

⑤ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=50.65


⑦ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=52.03

③ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=48.37

⑥ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=56.19

⑧ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=51.15

REVISIONS		
DATE	DESCRIPTION	


SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE
 SEMINOLE COUNTY
 ENGINEERING DIVISION
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD: HOWARD BLVD
 COUNTY CIP No.: 02107075

PROJECT LAYOUT
 SHEET NO. 4

PROJECT NOTES


1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN DATUM OF 1988 (NAVD 88) AND FIELD SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORP. DATED 7/23/2021.
 2. ANY PUBLIC LAND CORNER OR COUNTY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE SEMINOLE COUNTY SURVEYOR, SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT IMMEDIATELY BY PHONE @ (407) 665-5656.
 3. PROJECT STATIONS AND OFFSETS ARE BASED ON C HOWARD BLVD B SURVEY SHOWING ON SURVEY PREPARED BY SOUTHEASTERN SURVEYING AND MAPPING CORP. DATED 7/23/2021.
 4. ONE WEEK PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A "CONSTRUCTION PERMIT" FROM SEMINOLE COUNTY PUBLIC WORKS ENGINEERING DIVISION. CONTACT PERMIT COORDINATOR AT 100 E. FIRST STREET, SANFORD, FLORIDA 32773. TELEPHONE (407) 665-5674. NO FEES REQUIRED.
 5. SPECIAL ATTENTION IS DIRECTED TO STANDARD SPECIFICATION 522 AND DESIGN STANDARD INDEXES 304 AND 310.
 6. ALL PERSONAL PROPERTY WITHIN THE RIGHT-OF-WAY SHALL BE RELOCATED BY THE PROPERTY OWNER OR IT SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS.
 7. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER, THAN THE EXISTING PRE-CONSTRUCTION CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLAN. COST TO BE INCIDENTAL TO CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
 8. EXISTING UTILITY LOCATIONS SHOWN IN THE PLANS ARE ONLY APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSABILITY TO HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED IN THE FIELD AND NOTIFY ALL UTILITY OWNERS WHETHER PUBLIC OR PRIVATE, WITH FACILITIES IN THE AREA OF CONSTRUCTION ACTIVITIES FOR POSSIBLE CONFLICTS AND COORDINATE ANY ADJUSTMENT AND/OR RELOCATION AS NECESSARY TO COMPLETE THE PROJECT. ALL NOTIFICATIONS TO BE MADE ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTACT SUNSHINE STATE ONE-CALL 1-800-432-4770.
 9. IT IS THE RESPONSABILITY OF THE CONTRACTOR TO COMPLY WITH THE CURRENT STATE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT AND/OR RELATED STATE LAW. THE FOLLOWING INFORMATION IS BEING PROVIDED BY SEMINOLE COUNTY IN AN EFFORT TO ASSIST THE CONTRACTOR BY LISTING UTILITIES THAT MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHOULD ASSUME OTHER UTILITIES THAT ARE NOT LISTED BELOW MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION.
- | <u>UTILITY (CONTACT)</u> | <u>PHONE</u> |
|--|----------------|
| CHARTER COMMUNICATIONS (MARVIN USRY) | (407) 532-8509 |
| DUKE ENERGY (ROBB BROWN) | (352) 459-4671 |
| CENTRUYLINK (DAVE KENNEDY) | (407) 830-3279 |
| CITY OF LAKE MARY PUBLIC WORKS (DANIELLE KOURY) | (407) 585-1453 |
| MCI (INVESTIGATIONS) | (800) 624-9675 |
| CROWN CASTLE (WALTER GRUGER) | (215) 622-5927 |
| AT&T (SHAUN PURVIS) | (407) 999-2636 |
| SEMINOLE COUNTY TRAFFIC ENGINEERING (JOHN BROWN) | (407) 665-5644 |
| SEMINOLE COUNTY (PAUL ZIMMERMAN) | (407) 665-2040 |
| UNITI FIBER LLC (JAMES MOSLEY) | (251) 645-8216 |
10. GRADE SIDEWALK FOR POSITIVE DRAINAGE, CROSS SLOPE NOT TO EXCEED 1:50 (2%). NO SIDEWALK SHALL HAVE A LONGITUDINAL GRADE (SLOPE) GREATER THAT 1:20 (5%), CURB RAMPS SHALL NOT EXCEED 1:12 (8.33%).
 11. THE CONTRACTOR MAY FIELD-ADJUST THE LOCATION OF THE SIDEWALK, AS NECESSARY, TO MAINTAIN 1-FEET OFFSET DISTANCE TO ALL FIXED OBSTACLES AND VERTICAL DROP-OFFS. ANY ADJUSTMENT MUST BE APPROVED BY SEMINOLE COUNTY ENGINEERING INSPECTOR PRIOR TO PLACEMENT OF ANY CONCRETE.
 12. IT IS THE RESPONSABILITY OF THE CONTRACTOR TO CHECK ALL CONCRETE FORMS PRIOR TO CONCRETE BEING POURED AND CONFIRM THAT THE FINISHED SIDEWALK AND/OR CURB RAMP MEET ADA REQUIREMENTS AS INTENDED. FAILURE TO DO SO MAY RESULT IN THE REMOVAL AND REPLACEMENT OF THE CONCRETE AT THE CONTRACTOR'S EXPENSE.
 13. A MINIMUM OF 2 FEET ON BOTH SIDES OF THE SIDEWALK SHALL BE RE-SODDED AND ALL DISTURBED AREAS WILL BE RE-SODDED TO MATCH THE EXISTING SOD TYPE, UNLESS OTHERWISE NOTED IN THE PLANS. SOD SHALL BE CERTIFIED "SODA APPLE FREE". SUBCONTRACTOR SHALL REMOVE AND REPLACE ANY AREAS INFESTED FOR A PERIOD OF ONE YEAR FROM THE COMPLETION OF THE PROJECT.
 14. SOIL MATERIALS USED FOR FILL OR GRADING ACTIVITIES SHALL BE APPROVED FOR USE BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR PRIOR TO USE.
 15. ANY GRASSED AREA OUTSIDE THE IMMEDIATE CONSTRUCTION AREA DISTURBED BY THE CONTRACTOR WILL BE SODDED AT THE CONTRACTOR'S EXPENSE. WITHIN 48 HOURS OF NOTIFICATION BY THE SEMINOLE COUNTY PROJECT MANAGER.
 16. IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEER INSPECTOR. IT IS THE RESPONSABILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE THE DAMAGED IRRIGATION COMPONENTS TO PRE-CONSTRUCTION CONDITION AT HIS EXPENSE PRIOR TO COMPLETION OF THE PROJECT.
 17. THE CONTRACTOR SHALL NOTIFY THE SEMINOLE COUNTY PROJECT MANAGER FOR A FIELD INSPECTION 24 HOURS PRIOR TO PLACEMENT OF ANY CONCRETE.
 18. THE TEST REQUIREMENTS FOR CLASS 1 CONCRETE WILL BE WAIVED UPON PRESENTATION TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR WITH A WRITTEN CERTIFICATION FROM THE PLANT THAT THE CONCRETE IS A FDOT CLAS 1 MIX FOR 3000 PSI CONCRETE.
 19. THE CONTRACTOR SHALL REMOVE AND DISPOSE PROPERLY OF ALL CONSTRUCTION DEBRIS PRIOR TO COMPLETION OF THE PROJECT.
 20. SHRUBS AND TREES THAT CONFLICT WITH THE PROPOSED SIDEWALK SHALL BE REMOVED. NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL FROM THE SEMINOLE COUNTY PROJECT MANAGER.
 21. EXISTING DRAINAGE STRUCTURES TO REMAIN UNLESS OTHERWISE NOTED.
 22. ANY DRAINAGE PROBLEMS, CREATED BY CONSTRUCTION OR EXISTING BEFORE CONSTRUCTION, THAT ARE NOT ALLEVIATED SHOULD BE BROUGHT TO THE ATTENTION OF THE SEMINOLE COUNTY ENGINEERING DIVISION PROJECT MANAGER.

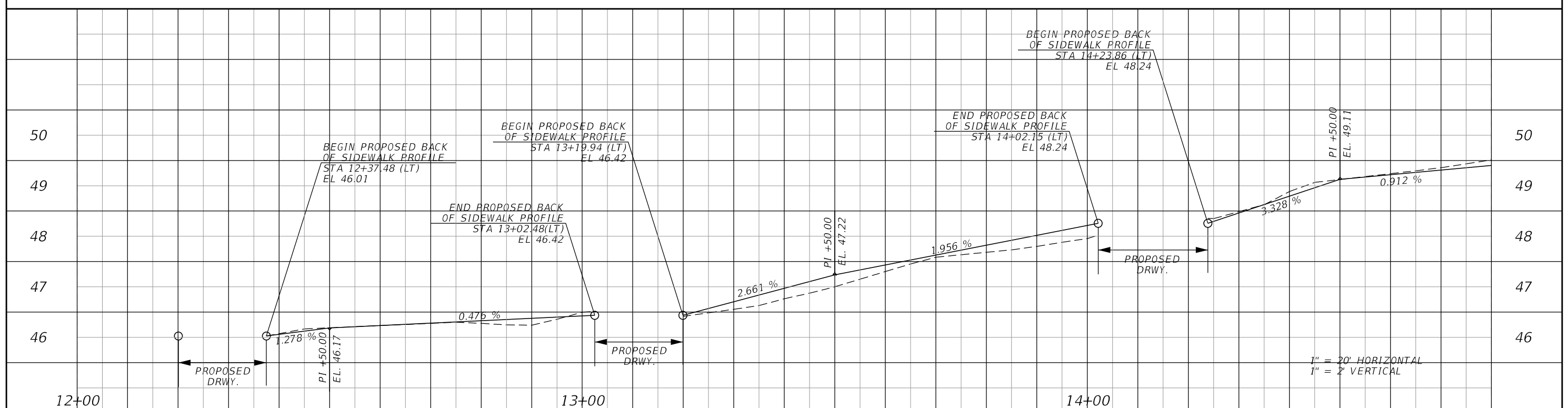
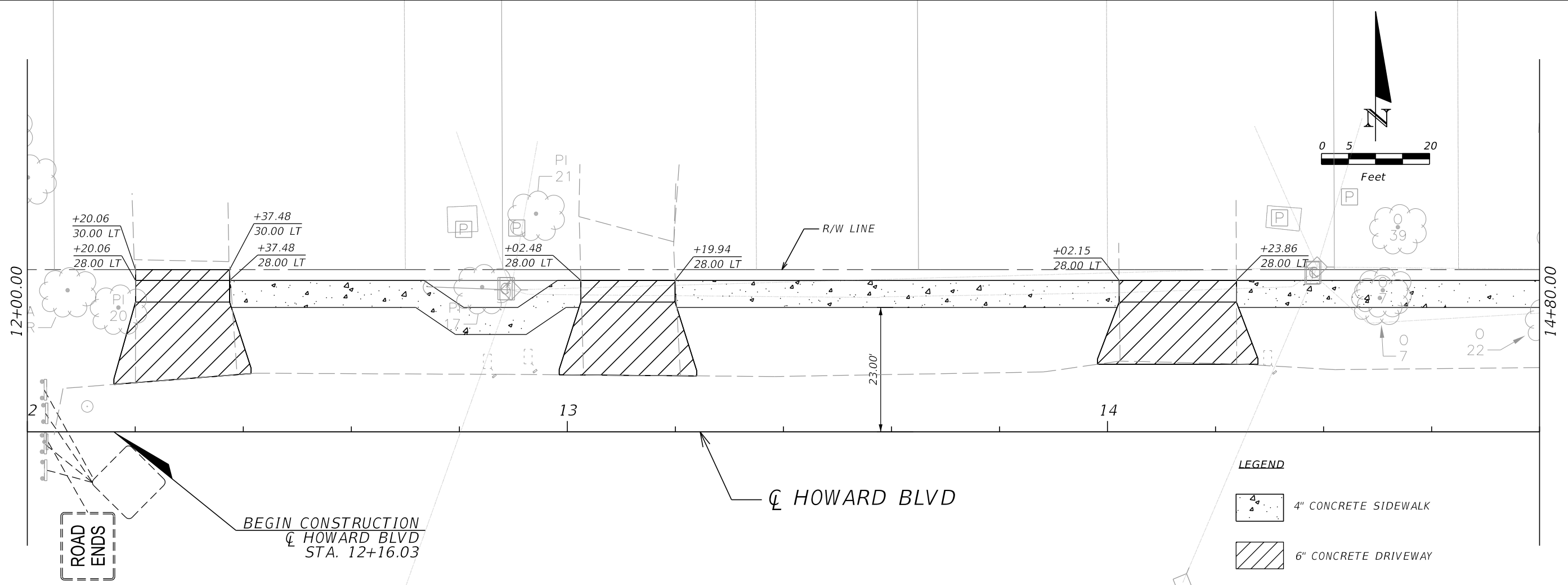
EROSION CONTROL NOTES

1. THE EROSION CONTROL MEASURES PER FDOT EROSION AND SEDIMENT CONTROL MANUAL ARE THE MINIMUM REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO FIELD CONDITIONS AS DETERMINED BY THE SEMINOLE COUNTY PROJECT MANAGER OR THE REGULATORY AGENCIES.
2. PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES CONSISTING OF STAKED SILT FENCES AND ADDITIONAL MEASURES AS NECESSARY, UTILIZING INDUSTRY STANDARD BEST MANAGEMENT PRACTICES AND FOLLOWING REQUIREMENTS BELOW, TO AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WETLANDS, WATER BODIES, AND UPLAND BUFFERS) AND OFF SITE LANDS AND WATER BODIES. MAINTAIN THESE MEASURES DAILY UNTIL CONSTRUCTION ACCEPTANCE BY SEMINOLE COUNTY AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.
3. NO DISCHARGE OF CONTAMINANTS INTO ADJACENT WETLANDS, WATER BODIES, OR UPLAND BUFFERS WILL BE PERMITTED AT ANY TIME.
4. DAMAGE TO WETLANDS AND/OR UPLAND BUFFERS ADJACENT TO CONSTRUCTION AREAS SHALL BE PREVENTED BY DELINEATING THE LIMITS OF CONSTRUCTION, AND INSTALLING SEDIMENT BARRIERS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THEREBY RETAINING SEDIMENT WITHIN THE CONSTRUCTION AREA. CONTRACTOR WILL BE REQUIRED TO ADEQUATELY MAINTAIN THESE PROTECTION MEASURES AT ALL TIMES.
5. EROSION CONTROL AND DUST CONTROL SHALL BE MAINTAINED WITHIN CONSTRUCTION AREAS BY QUICKLY STABILIZING DISTURBED AREAS TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING GRASS COVER, TURBIDITY FENCES, PERIODIC WATERING, AND OTHER BEST MANAGEMENT PRACTICES WHICH ARE ACCEPTABLE TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR AND REGULATORY AGENCIES.
6. TURBIDITY BARRIERS SHALL BE USED TO PREVENT RELEASE OF SEDIMENT AND/OR TURBID WATER INTO SURROUNDING WATERS. THESE SEDIMENT AND TURBIDITY BARRIERS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
7. ALL EROSION PREVENTION AND CONTROL MEASURES MUST BE INSPECTED AND APPROVED BY THE COUNTY COMPLIANCE PERSONNEL, AS REQUIRED, PRIOR TO ANY CONSTRUCTION ACTIVITIES. REMOVAL OF THESE SAME EROSION CONTROLS AND PREVENTION MEASURES MAY BE DONE ONLY AFTER AUTHORIZATION BY COUNTY PERSONNEL IS OBTAINED.
8. ALL SURFACE WATER DISCHARGE FROM SITE, INCLUDING DEWATERING DISCHARGE, SHALL MEET CURRENT STATE WATER QUALITY STANDARDS PRIOR TO REACHING ANY WATERS OF THE STATE INCLUDING WETLANDS.
9. ALL STORM DRAINAGE INLETS AND PIPES SHALL BE PROTECTED FROM SILT, SAND AND DEBRIS DURING CONSTRUCTION. ANY ACCUMMULATION WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED WITHOUT PUMPING OR FLUSHING. STORM DRAINAGE SYSTEM SHALL BE CLEANED AND FREE OF DEBRIS PRIOR TO ENGINEER'S INPECTOR'S ACCEPTANCE.


TEMPORARY TRAFFIC CONTROL NOTES

1. VEHICLULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACORDANCE WITH FDOT DESIGN STANDARDS, INDEX 600 SERIES, AND THE SATANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS A MINIMUM.
2. SEMINOLE COUNTY IS ADMINISTERING THE CONSTRUCTION OF THIS PROJECT. IT IS THE COUNTY'S POLICIES TO PLACE THE RESPONSABILITY FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION ON THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN SIGNED AND SEALED BY A STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER TO THE COUNTY PRIOR TO BEGINNING THE PROJECT. THE APPLICATION AND REFERENCE OF SPECIFIC FDOT DESIGN STANDARD INDICES IS ACCEPTABLE.
3. WORK HOURS ARE FROM 8:00 A.M. TO 5:00 P.M. MONDAY TO FRIDAY. WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY SEMINOLE COUNTY.
4. LANE CLOSURES SHALL BE PERMITTED ONLY DURING ACTIVE WORK PERIODS AND AS FOLLOWS:
MONDAY, TUESDAY, THURSDAY & FRIDAY : FROM 9:00AM TO 2:00PM
WEDNESDAY FROM 9:00AM TO 1:00PM
5. USE CHANGEABLE MESSAGE SIGNS AT BEGIN AND END PROJECT 500' BEFORE SIGNAGE (7) DAYS PRIOR TO CONSTRUCTION AND FOR THE PROJECT DURATION

REVISIONS			 SEMINOLE COUNTY <small>FLORIDA'S NATURAL CHOICE</small>	SEMINOLE COUNTY ENGINEERING DIVISION		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	ROAD		COUNTY CIP No.	5		
		HOWARD BLVD	DAVID MARTIN P.E. No. 46744 100 East 1st. Street Sanford, Fl 32771	02107075			



REVISIONS		
NO.	DATE	DESCRIPTION


SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE

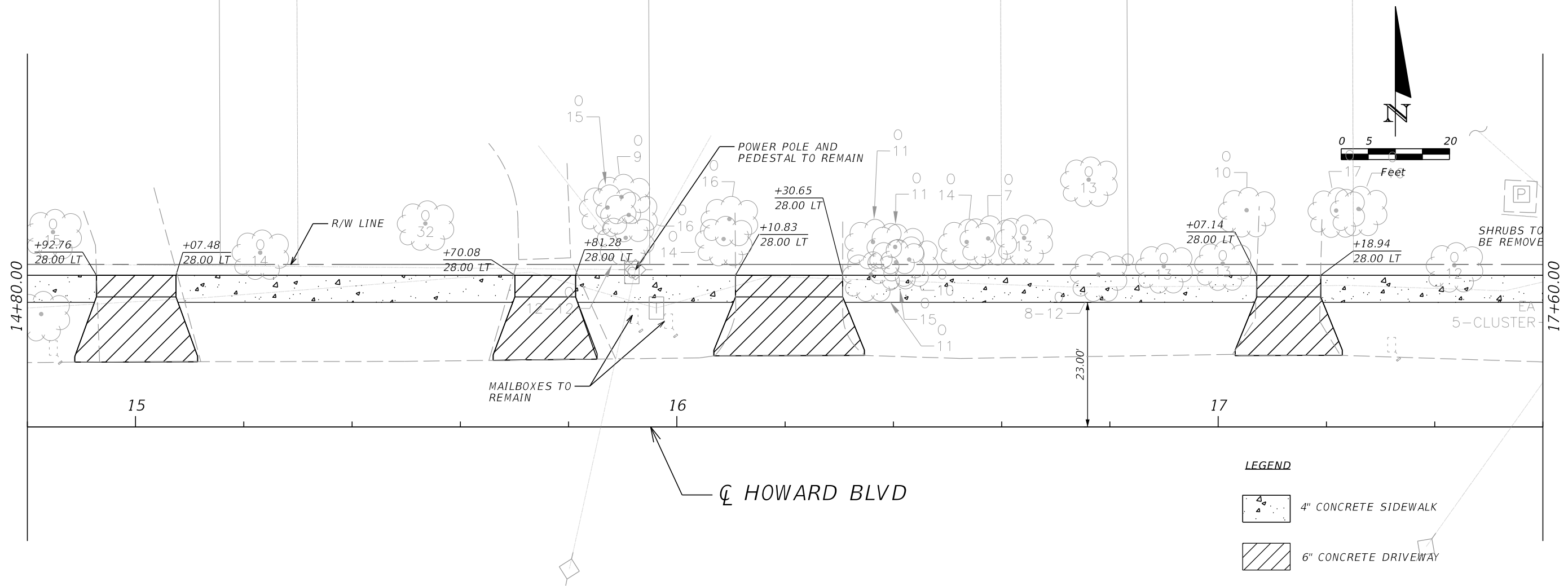
SEMINOLE COUNTY ENGINEERING DIVISION
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

SEMINOLE COUNTY ENGINEERING DIVISION

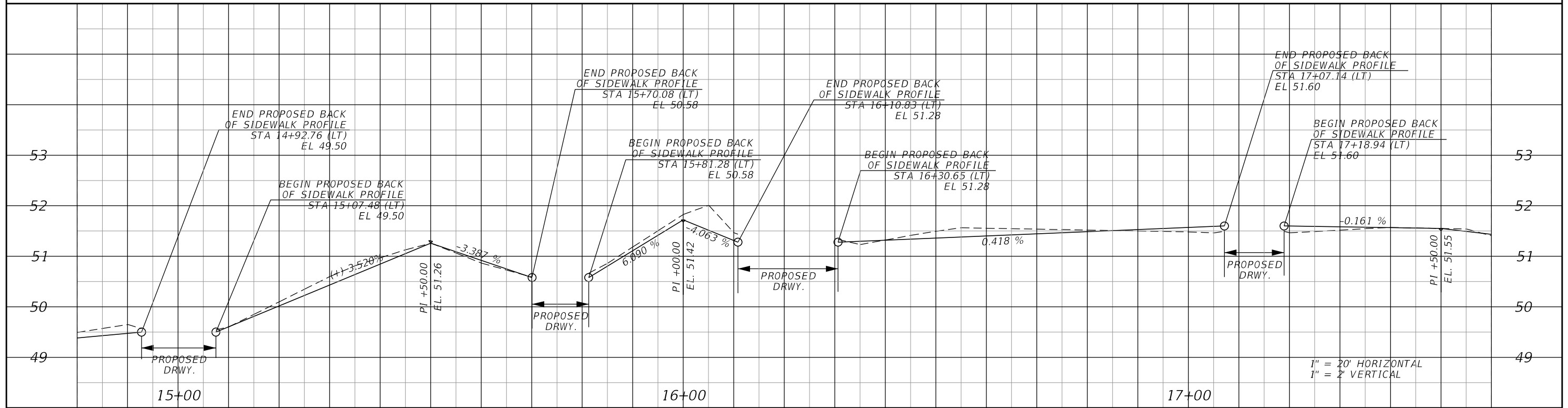
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

PLAN & PROFILE SHEET

SHEET NO.
6



- LEGEND**
- 4" CONCRETE SIDEWALK
 - 6" CONCRETE DRIVEWAY



REVISIONS		
DATE	DESCRIPTION	

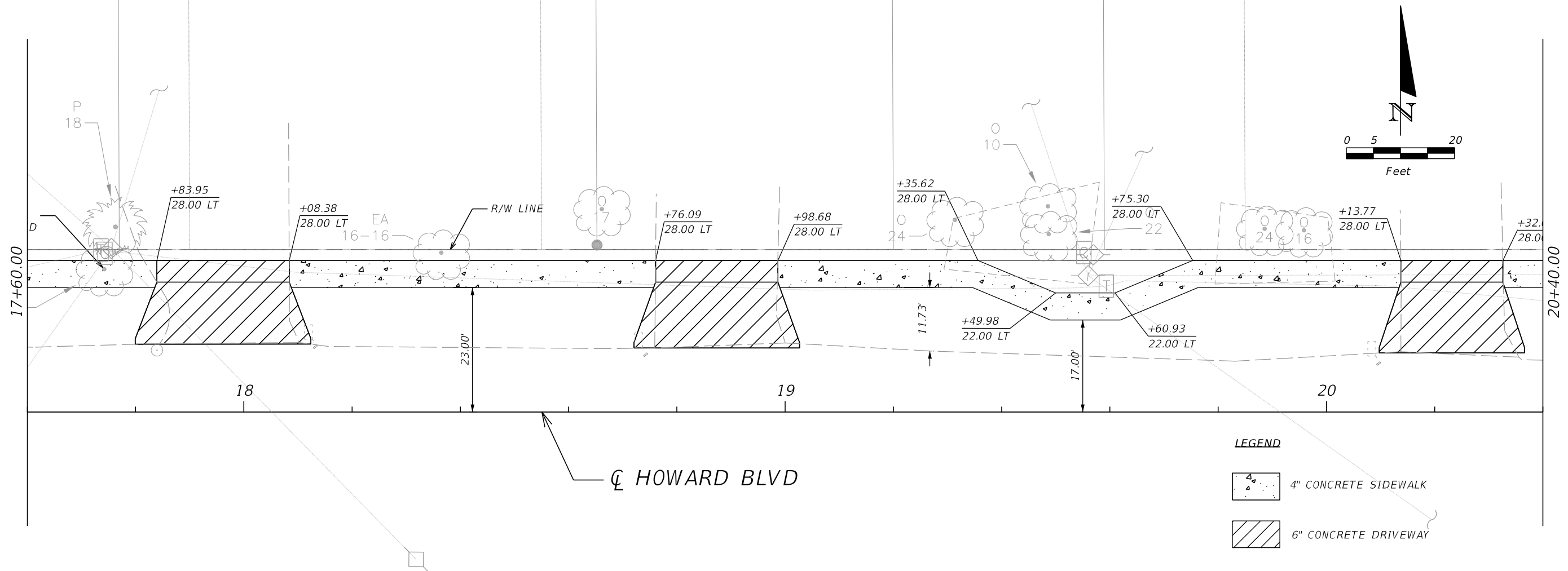
SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY ENGINEERING DIVISION
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

ENGINEERING DIVISION
 ROAD: HOWARD BLVD
 COUNTY CIP No.: 02107075

PLAN & PROFILE SHEET

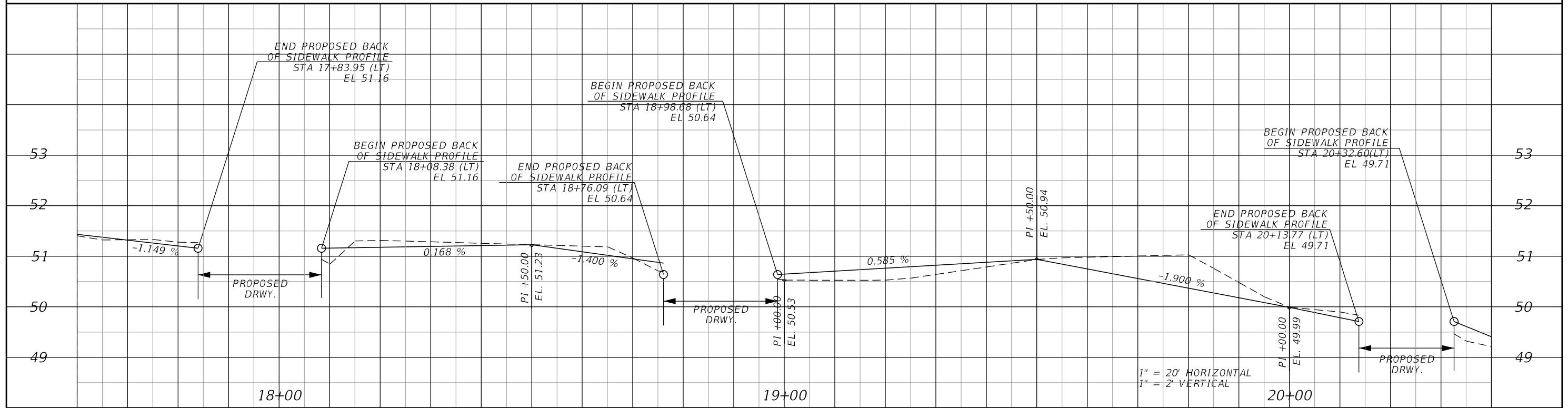
SHEET NO. 7



LEGEND

	4" CONCRETE SIDEWALK
	6" CONCRETE DRIVEWAY

☐ HOWARD BLVD



1" = 20' HORIZONTAL
1" = 2' VERTICAL

REVISIONS		
NO.	DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

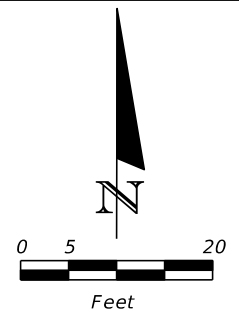
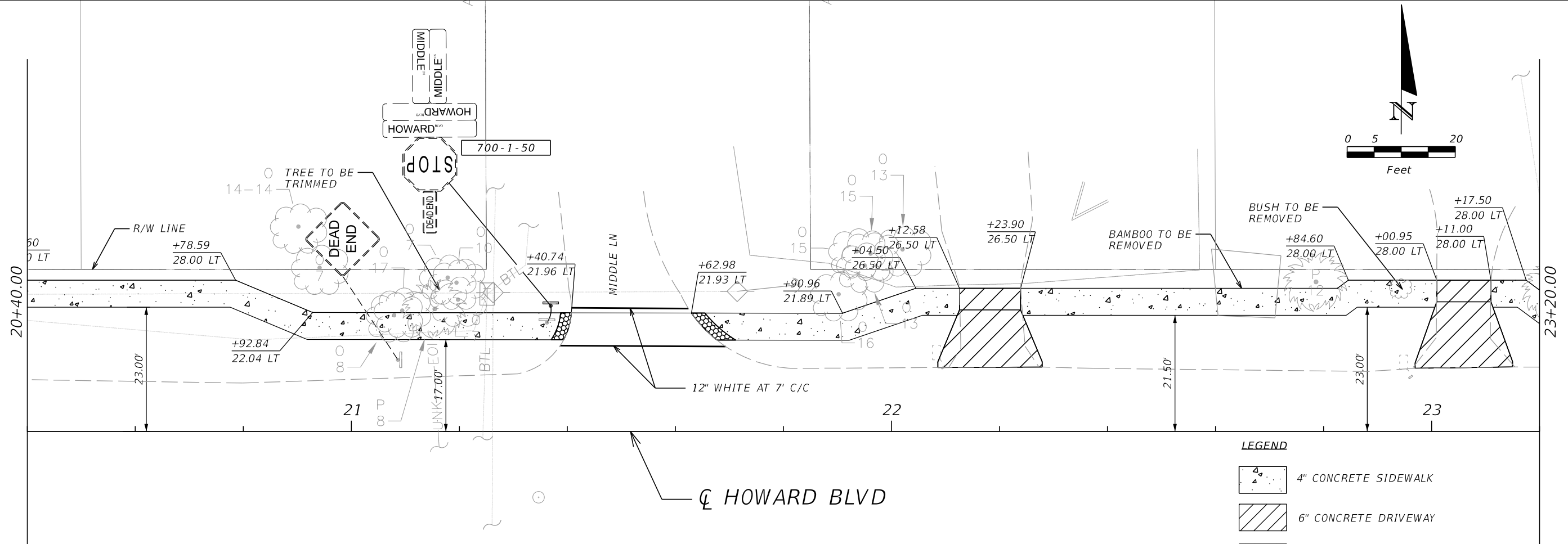
DAVID MARTIN
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ENGINEERING DIVISION

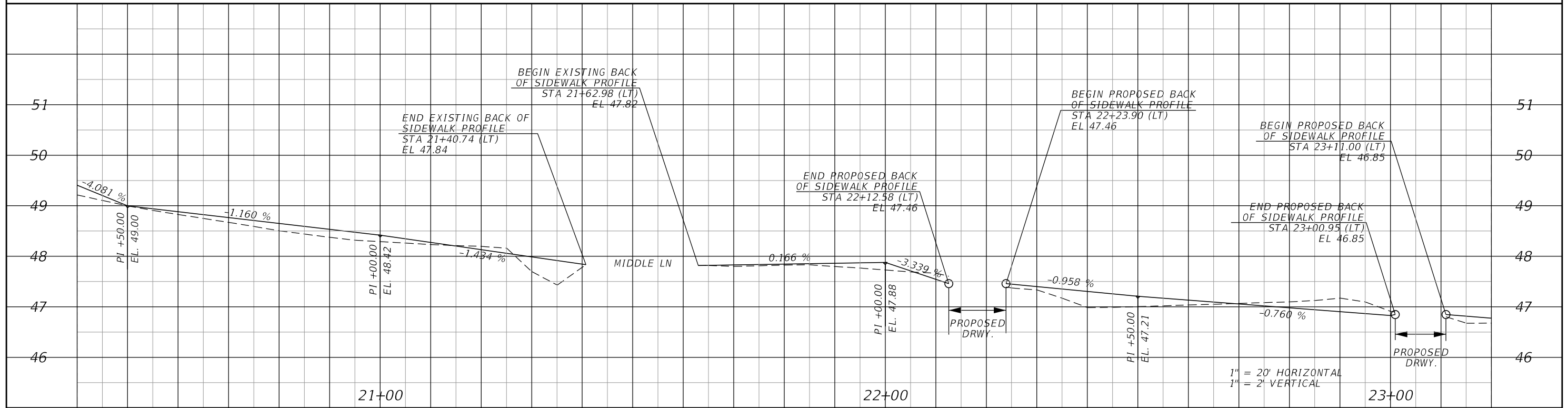
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

PLAN & PROFILE SHEET

SHEET NO.
8



- LEGEND**
- 4" CONCRETE SIDEWALK
 - 6" CONCRETE DRIVEWAY
 - DETECTABLE WARNING



REVISIONS		
NO.	DATE	DESCRIPTION

SEMINOLE COUNTY ENGINEERING DIVISION

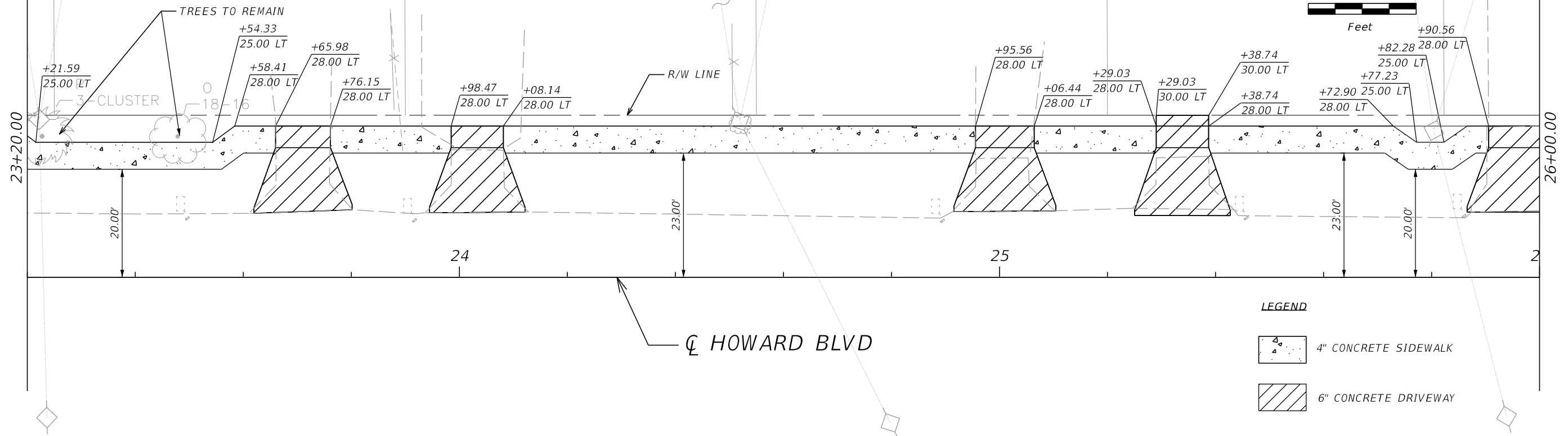
DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

STATE OF FLORIDA ENGINEERING DIVISION

ROAD: HOWARD BLVD
COUNTY CIP No.: 02107075

PLAN & PROFILE SHEET

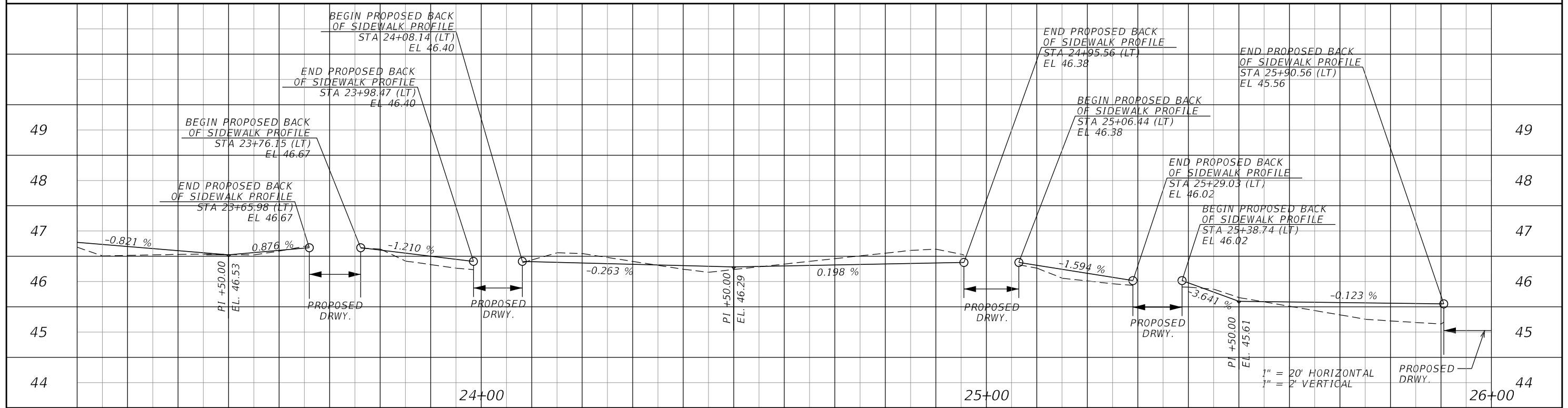
SHEET NO.
9



LEGEND

- 4" CONCRETE SIDEWALK
- 6" CONCRETE DRIVEWAY

CL HOWARD BLVD



REVISIONS		
NO.	DATE	DESCRIPTION

SEMINOLE COUNTY ENGINEERING DIVISION

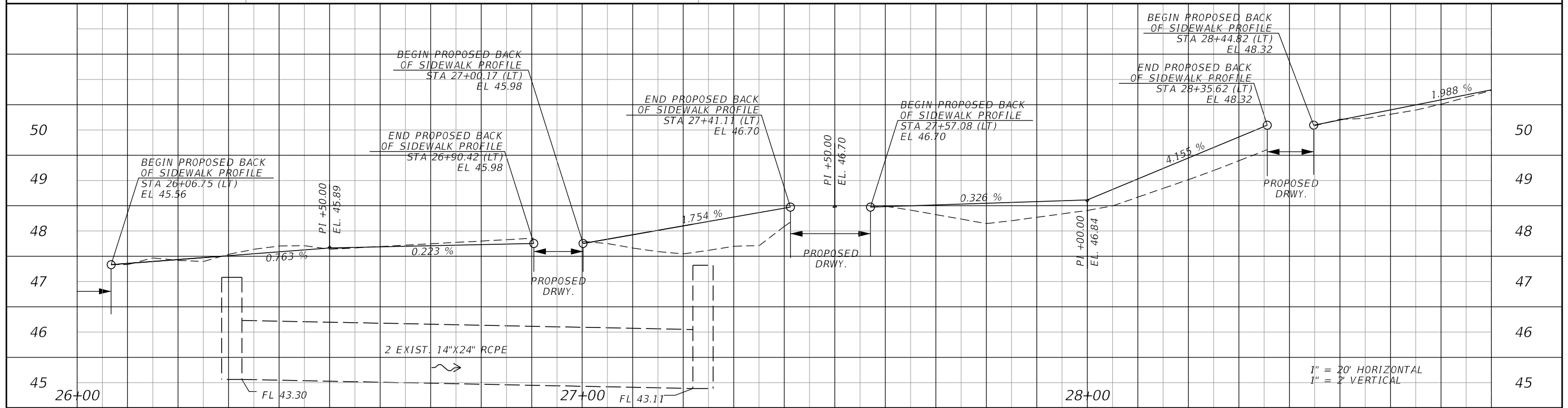
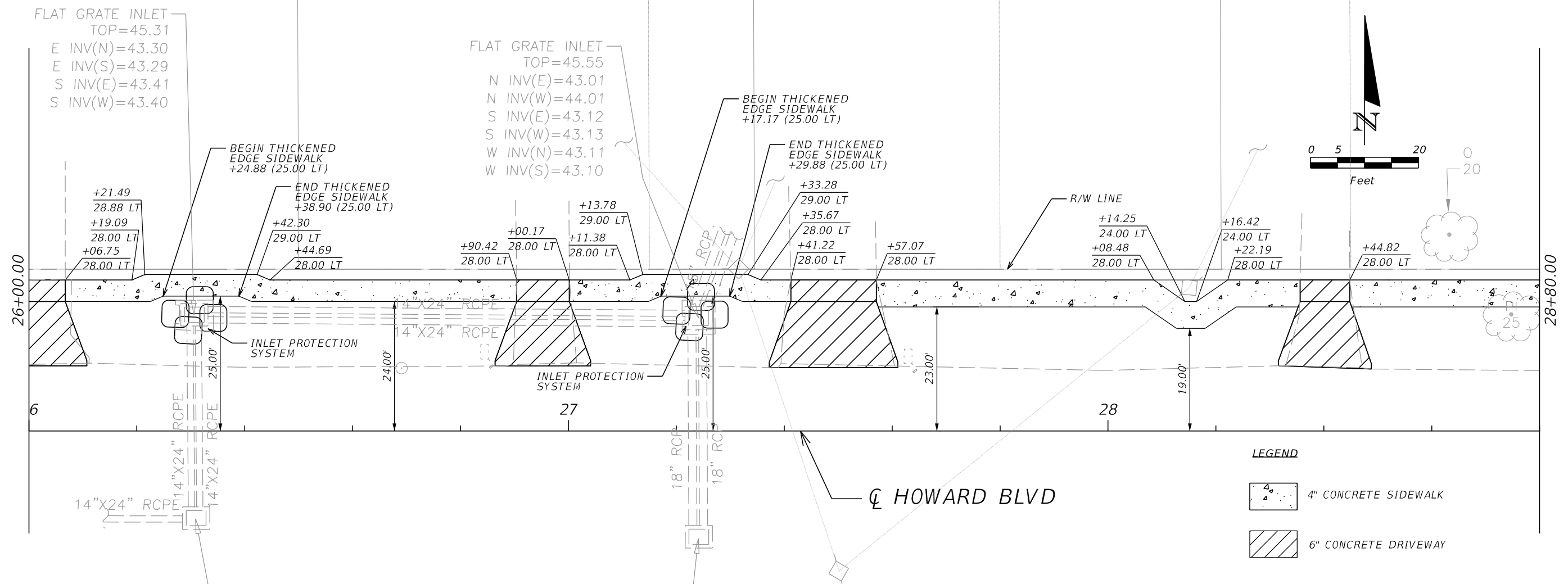
DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

ENGINEERING DIVISION

ROAD HOWARD BLVD	COUNTY CIP No. 02107075
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PLAN & PROFILE SHEET

SHEET NO.
10



REVISIONS		
NO.	DATE	DESCRIPTION

SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE

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DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

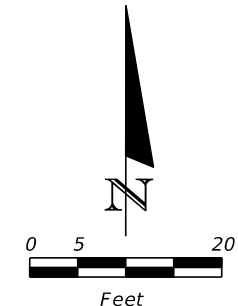
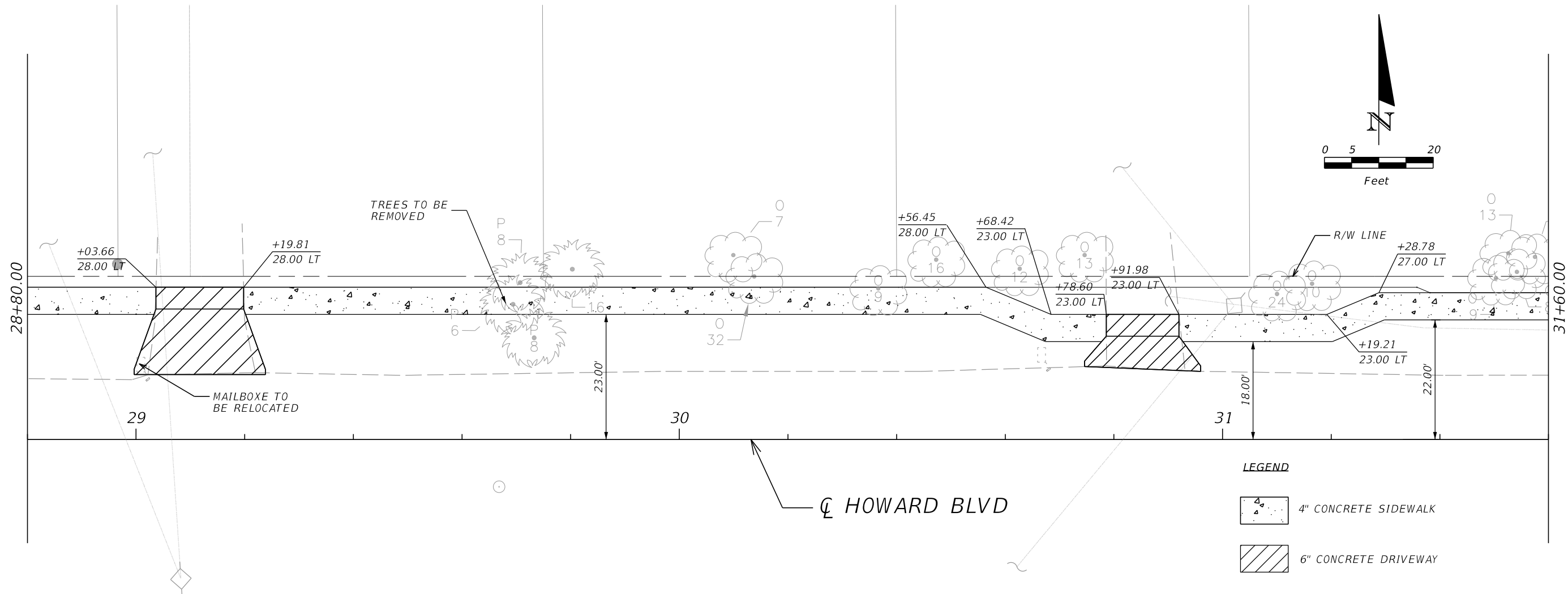
ENGINEERING DIVISION

ROAD: HOWARD BLVD

COUNTY CIP No.: 02107075

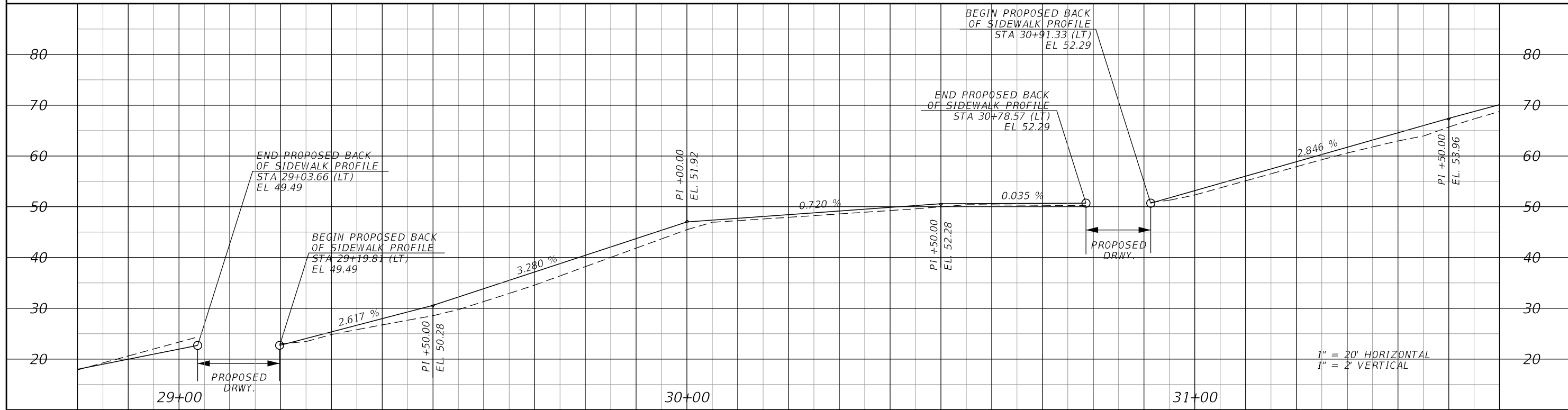
PLAN & PROFILE SHEET

SHEET NO. 11



LEGEND

	4" CONCRETE SIDEWALK
	6" CONCRETE DRIVEWAY



REVISIONS		
NO.	DATE	DESCRIPTION

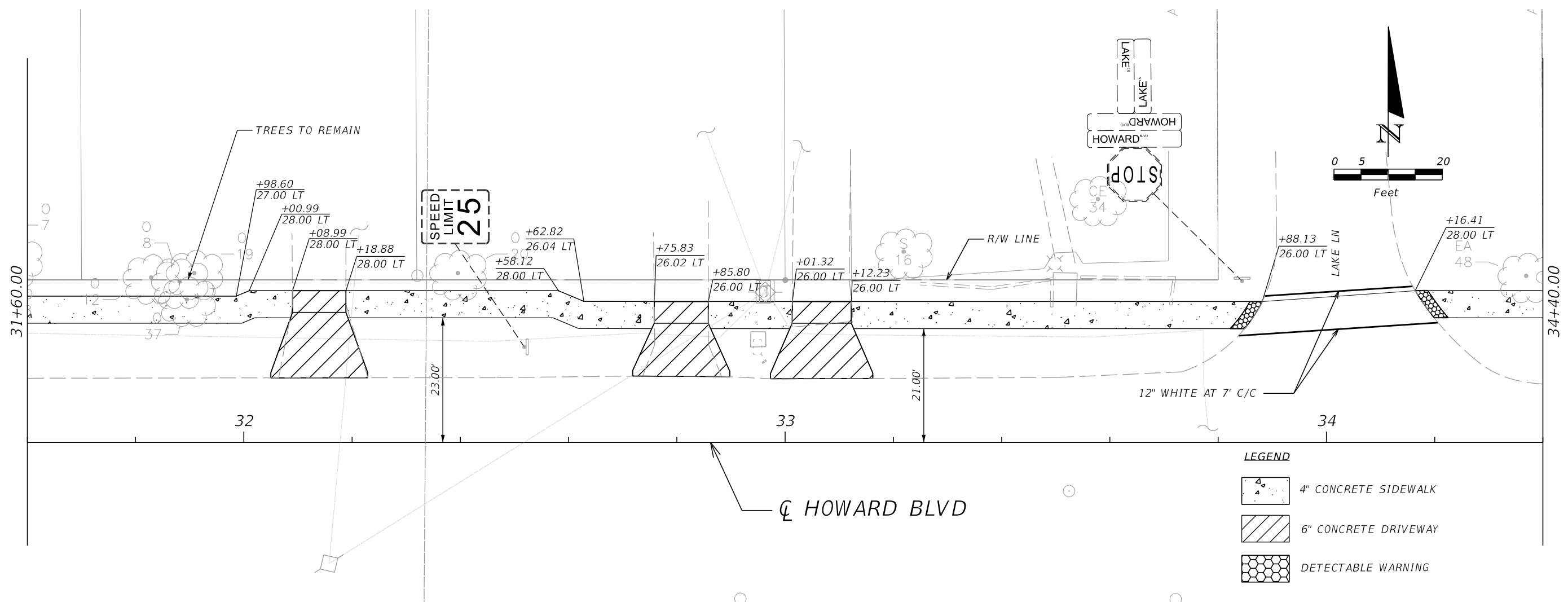
SEMINOLE COUNTY ENGINEERING DIVISION

DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

ENGINEERING DIVISION	
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

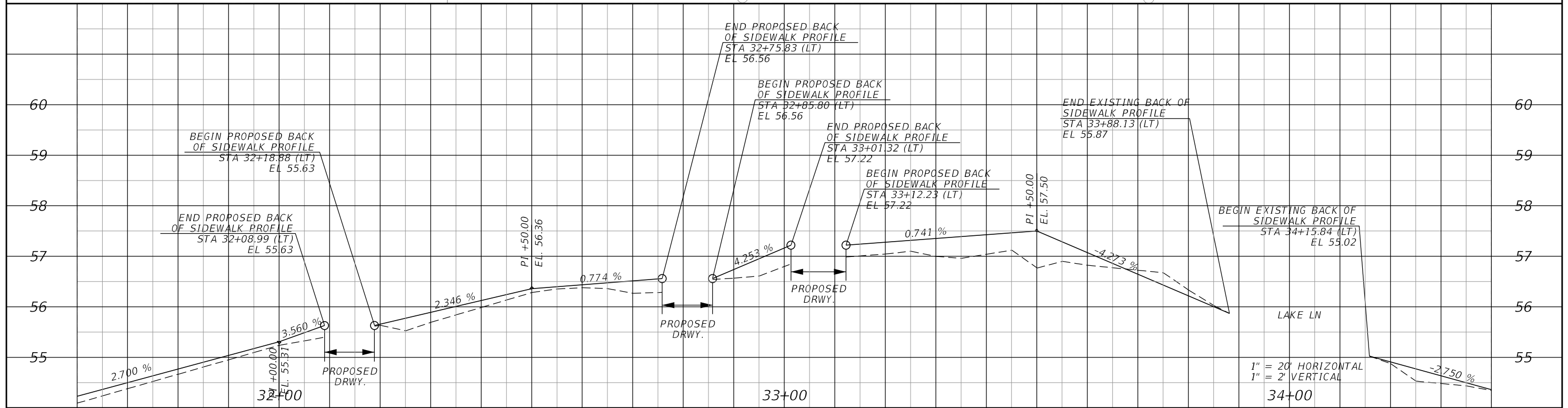
PLAN & PROFILE SHEET

SHEET NO.
12



LEGEND

	4" CONCRETE SIDEWALK
	6" CONCRETE DRIVEWAY
	DETECTABLE WARNING



REVISIONS		
NO.	DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY ENGINEERING DIVISION

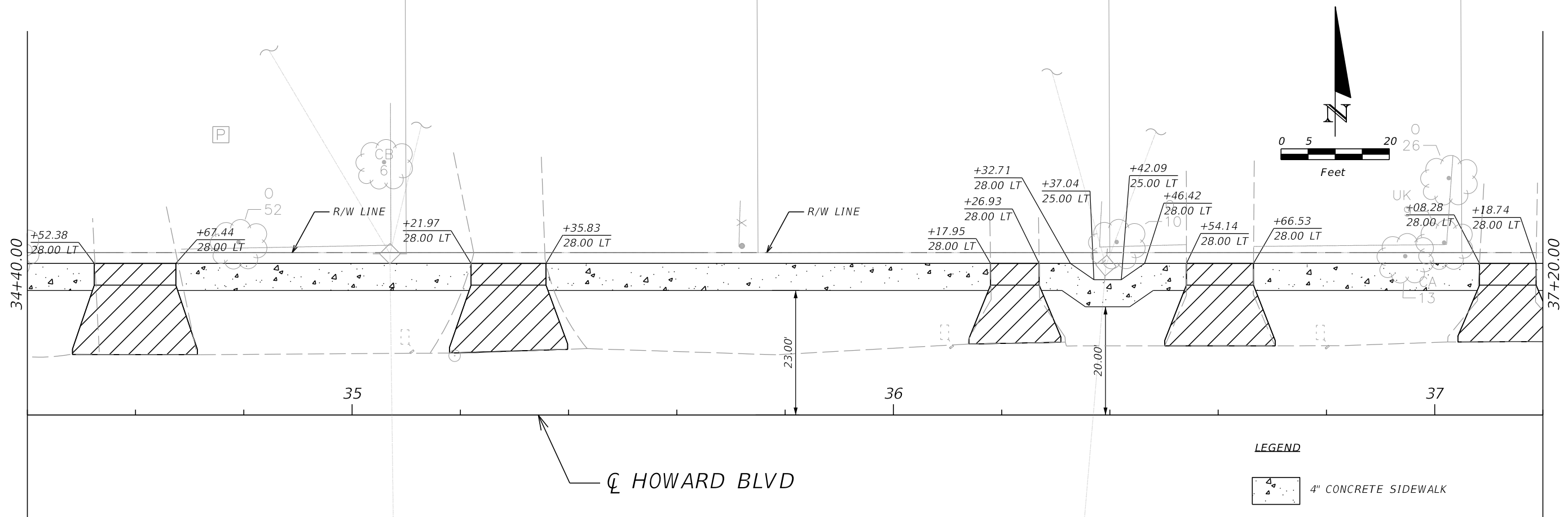
DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

ENGINEERING DIVISION

ROAD HOWARD BLVD	COUNTY CIP No. 02107075
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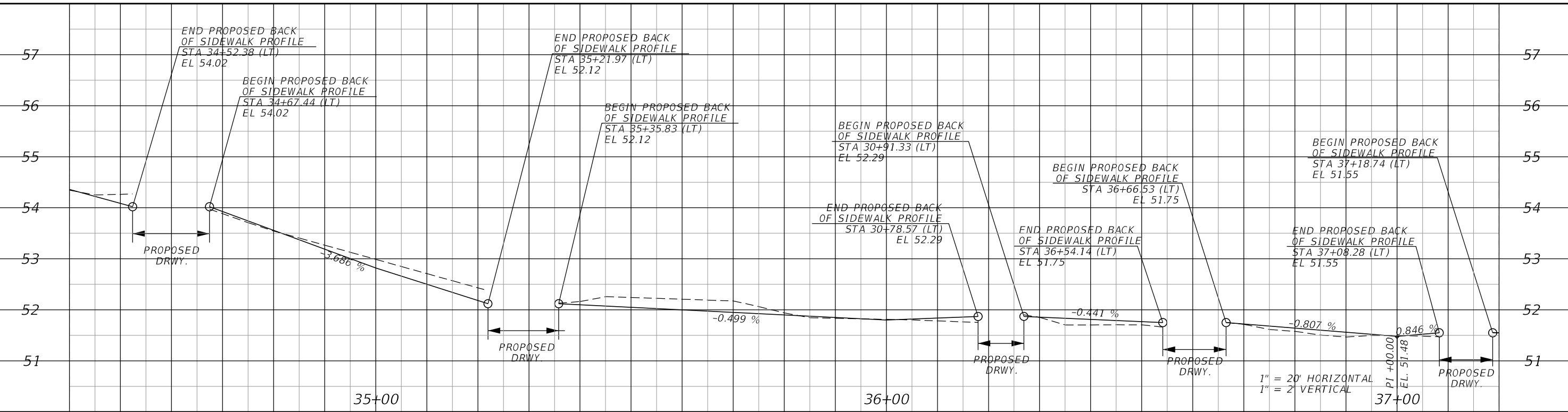
PLAN & PROFILE SHEET

SHEET NO. 13




LEGEND

4" CONCRETE SIDEWALK
6" CONCRETE DRIVEWAY



REVISIONS		
NO.	DATE	DESCRIPTION

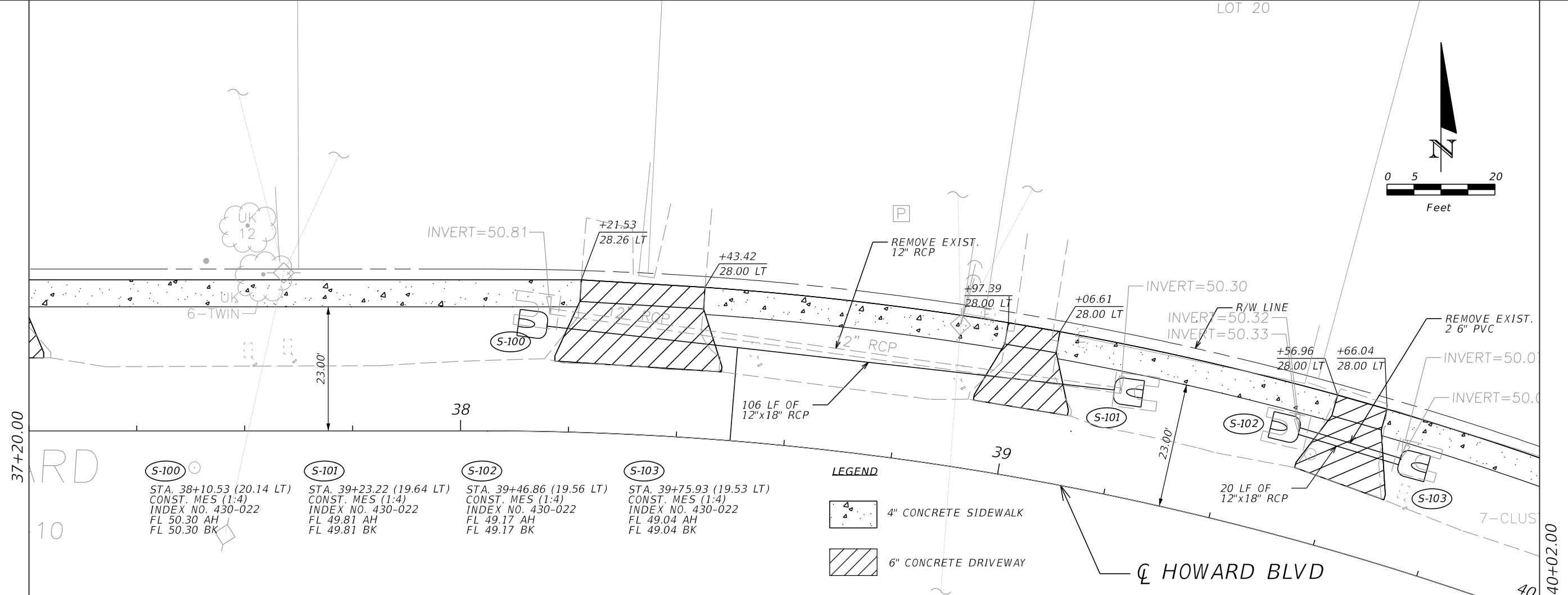
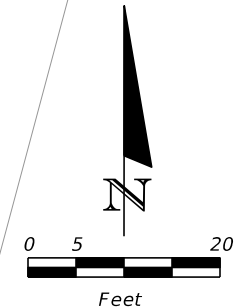

SEMINOLE COUNTY
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 Sanford, FL 32771

ENGINEERING DIVISION	
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

PLAN & PROFILE SHEET

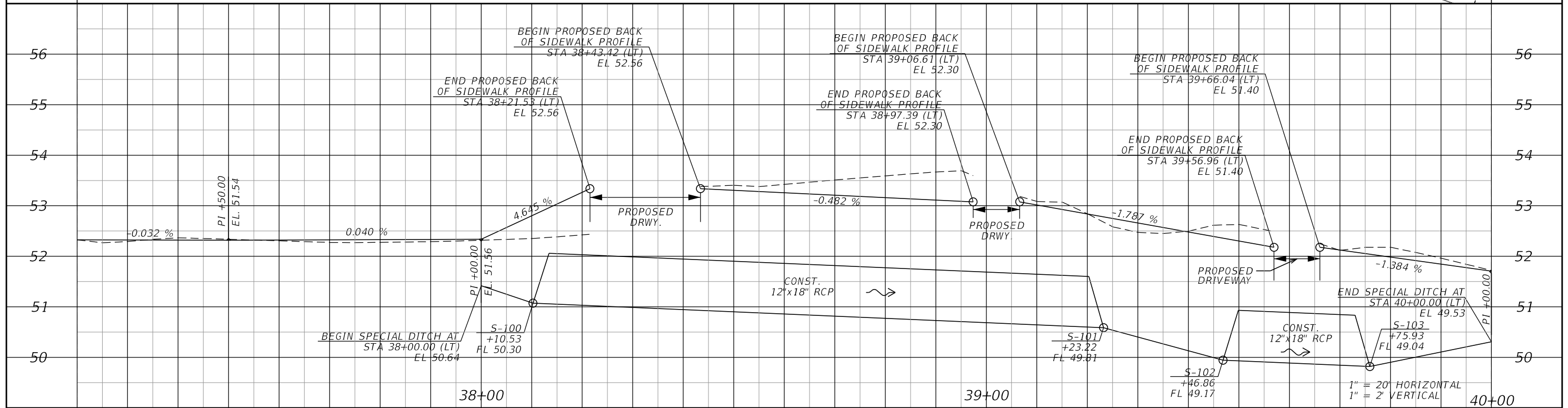
SHEET NO.
14



Manhole ID	Station	Const. M/S	Index No.	FL AH	FL BK
S-100	STA. 38+10.53 (20.14 LT)	CONST. M/S (1:4)	INDEX NO. 430-022	FL 50.30	FL 50.30
S-101	STA. 39+23.22 (19.64 LT)	CONST. M/S (1:4)	INDEX NO. 430-022	FL 49.81	FL 49.81
S-102	STA. 39+46.86 (19.56 LT)	CONST. M/S (1:4)	INDEX NO. 430-022	FL 49.17	FL 49.17
S-103	STA. 39+75.93 (19.53 LT)	CONST. M/S (1:4)	INDEX NO. 430-022	FL 49.04	FL 49.04

LEGEND

4" CONCRETE SIDEWALK
6" CONCRETE DRIVEWAY



REVISIONS		
NO.	DATE	DESCRIPTION

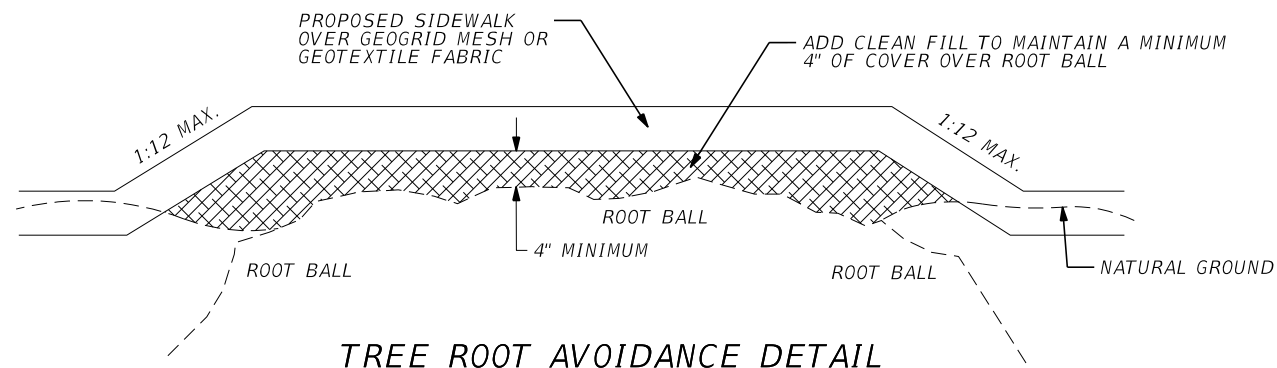
SEMINOLE COUNTY ENGINEERING DIVISION
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

STATE OF FLORIDA ENGINEERING DIVISION

ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

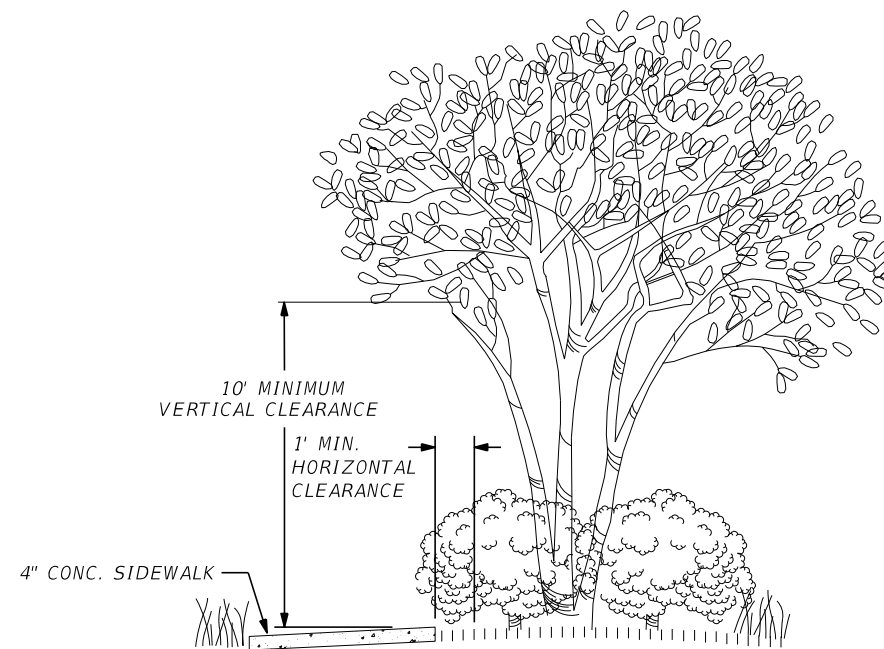
PLAN & PROFILE SHEET

SHEET NO. 15



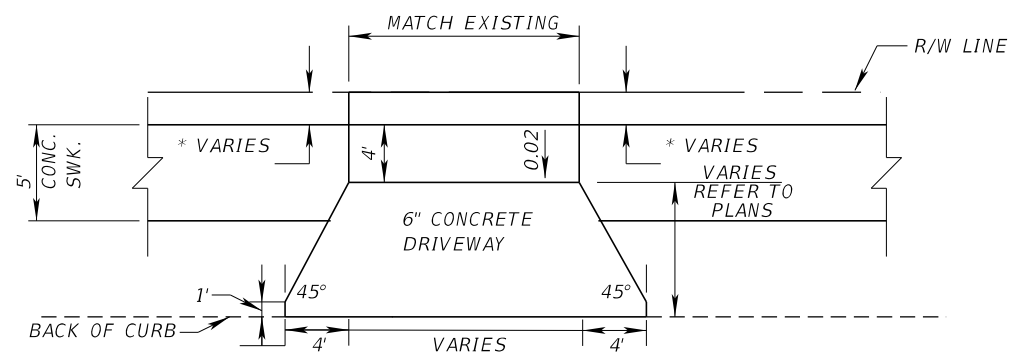
TREE ROOT AVOIDANCE DETAIL

1. FOR USE IN AREAS WHERE TREE ROOTS INTERFERE WITH EXCAVATION. THE ENGINEER OF RECORD MUST BE CONTACTED 2 WEEKS PRIOR TO IMPLEMENTATION OF THIS DETAIL TO REVIEW AND APPROVE ANY ALTERATION TO THE SIDEWALK PROFILE.
2. ALL COSTS OF ADDITIONAL EARTHWORK AND SOD SHALL BE INCIDENTAL TO THE COST OF THE SIDEWALK.
3. IF TREE ROOT CUTTING IS NECESSARY, CUT ROOTS CLEANLY, NO CLOSER THAN THREE TIMES THE DIAMETER OF THE TREE AND PRUNE OFF ANY JAGGED ENDS OF CUT ROOTS. (i.e. IF TREE TRUNK IS 20" IN DIAMETER, THEN CUT THE ROOTS FURTHER THAN 60" FROM THE BASE OF THE TREE)
4. LEAVE ROOTS EXPOSED FOR 24 HOURS TO ALLOW AIR TO "HARDEN" REMAINING ROOTS. AFTER 24 HOURS, PROVIDE A LAYER OF VISQUEEN BETWEEN CUT ROOT, BACKFILL AND WATER-IN THOROUGHLY. FERTILIZE IN 7-10 DAYS WITH A COMPOUND WHICH IS RECOMMENDED FOR AIDING IN ROOT RECOVERY, LOW IN NITROGEN AND HIGH IN PHOSPHORUS AND POTASSIUM.
5. ALL TREES THAT ARE ROOT PRUNED SHALL BE WATERED DAILY FOR 30 DAYS FOLLOWING THE "HARDENING" STAGE.
6. ANY ADDITIONAL QUESTIONS CONCERNING ROOT CUTS CAN BE ANSWERED BY THE COUNTY LANDSCAPE COORDINATOR, BILL PANDOS, AT (407) 665-2176.
7. USE VISQUEEN WITH "P" AGGREGATE ROCK (AS NEEDED) AROUND ROOTS TO PROTECT THE ROOTS WHEN POURING CONCRETE.



TREE SIDEWALK DETAIL

NOTE: THE CONTRACTOR SHALL TRIM ALL BUSHES AND TREES TO MAINTAIN AT LEAST A MINIMUM 10 FEET VERTICAL CLEARANCE AND ONE FOOT HORIZONTAL CLEARANCE.



TYPICAL CONCRETE DRIVEWAY DETAIL

DRIVEWAY NOTE:

THE CONTRACTOR SHALL SAW CUT AND REMOVE ANY ASPHALT APRON THAT IS WITHIN THE LIMITS OF THE NEW CONCRETE DRIVEWAY. DRIVEWAYS THAT DON'T FOLLOW THIS DETAIL ARE TO BE REPLACED BACK TO ORIGINAL GEOMETRY. THE CONTRACTOR SHALL SOD ANY AREA NOT COVERED BY CONCRETE.

REFER TO DRIVEWAY DETAILS FOR DIMENSIONS AND PROPOSED GRADES.



CROSSWALK AND STOP BAR DETAIL

NOTE: TYPICAL FOR ALL CROSSWALKS WITHIN PROJECT LIMITS. REPAINT OR CONSTRUCT NEW STOP BARS AND STOP SIGNS (IF REQUIRED) AT ALL INTERSECTIONS WITHIN THIS PROJECT.

REVISIONS

DATE	DESCRIPTION



**SEMINOLE COUNTY
ENGINEERING DIVISION**

DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

**SEMINOLE COUNTY
ENGINEERING DIVISION**

ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

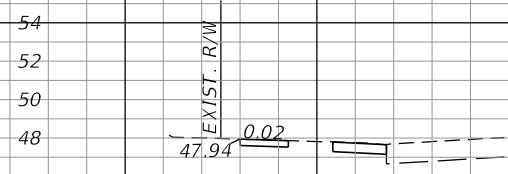
SPECIAL DETAILS

SHEET NO.

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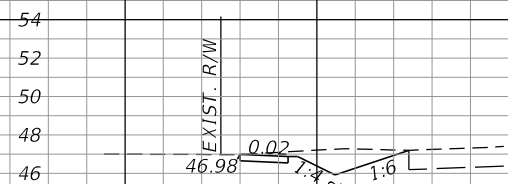
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A V A V

Regular Exc. Embankment
A V A V



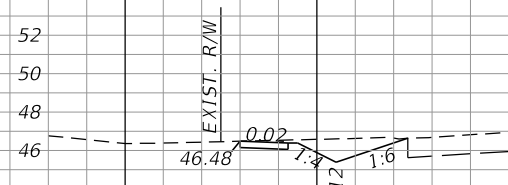
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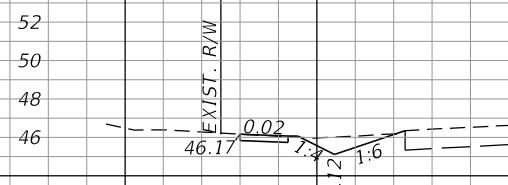
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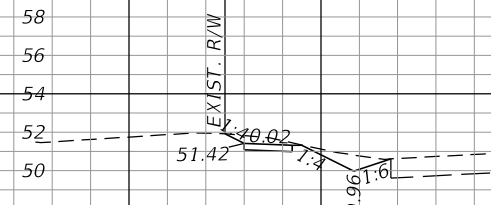
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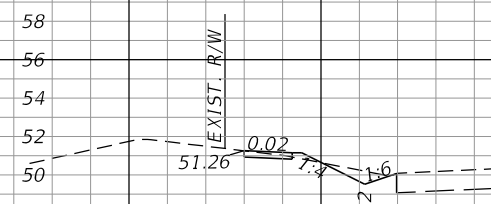
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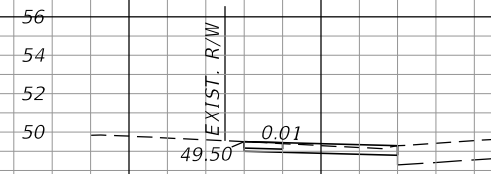
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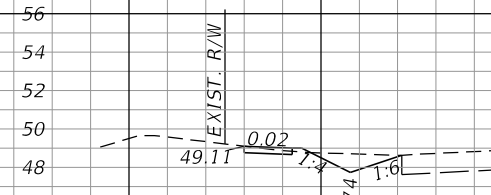
15+50.00

3.55 9.0 0.63 1.0



15+00.00 DRIVEWAY

6.58 11.0 0.0 0.0



14+50.00

5.76 7.0 0.28 0.0

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE
SEMINOLE COUNTY
ENGINEERING DIVISION
DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

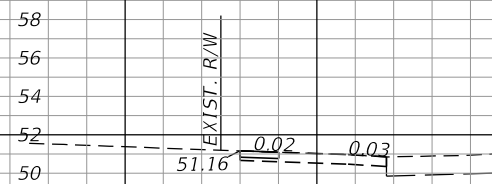
SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD COUNTY CIP No.
HOWARD BLVD 02107075

CROSS SECTIONS

SHEET NO.
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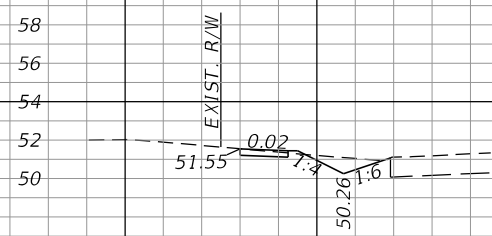
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A V A V

Regular Exc. Embankment
A V A V



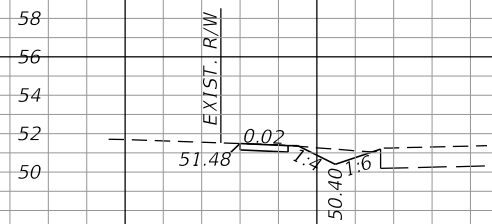
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DRIVEWAY

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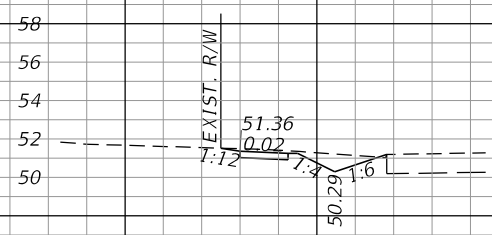
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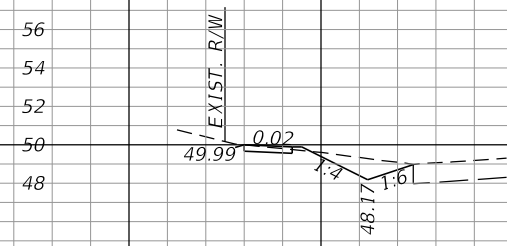
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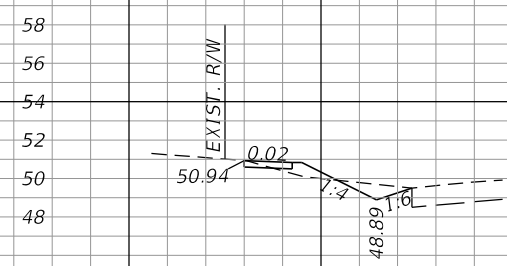
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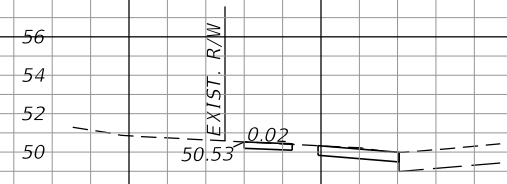
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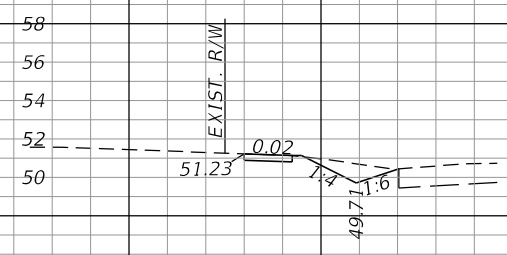
19+50.00

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19+00.00

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18+50.00

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1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

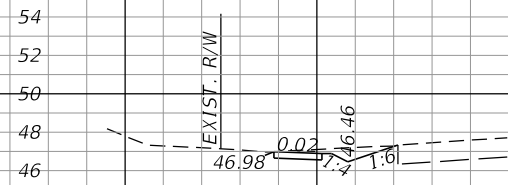
SEMINOLE COUNTY ENGINEERING DIVISION
 DAVID MARTIN
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 100 East 1st. Street
 Sanford, FL 32771

SEMINOLE COUNTY ENGINEERING DIVISION
 ROAD: HOWARD BLVD
 COUNTY CIP No.: 02107075

CROSS SECTIONS

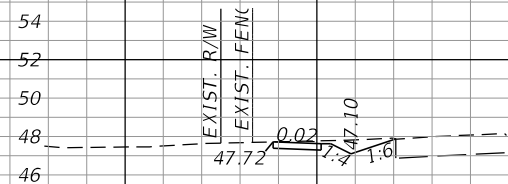
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A V A V

Regular Exc. Embankment
A V A V



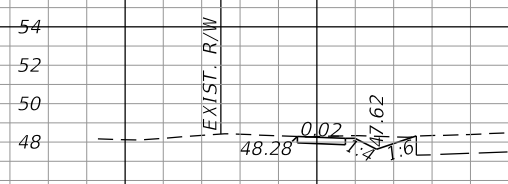
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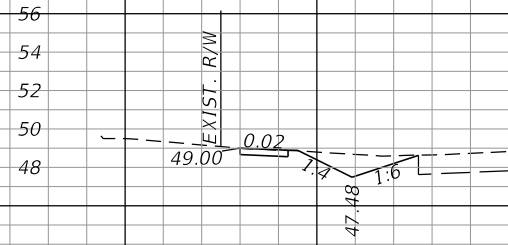
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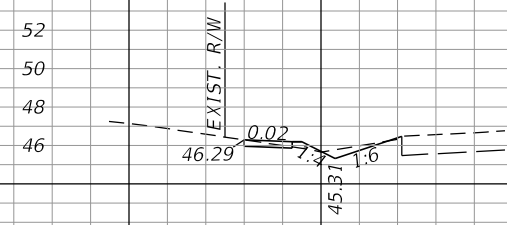
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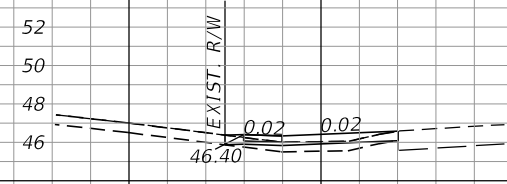
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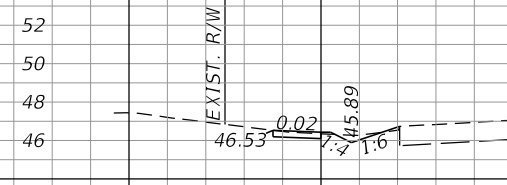
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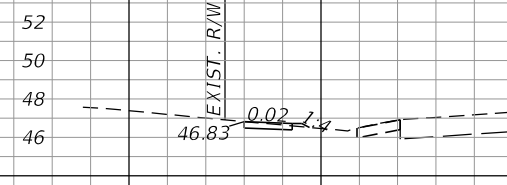
24+00.00
DRIVEWAY

0.0 2.0 4.62 5.0



23+50.00

2.22 3.0 0.28 0.0



23+00.00


1.36 6.0 0.21 0.0

1" = 20' Horizontal
1" = 10' Vertical

40 20 0 20 40

40 20 0 20 40

REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY ENGINEERING DIVISION

 DAVID MARTIN
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 100 East 1st. Street
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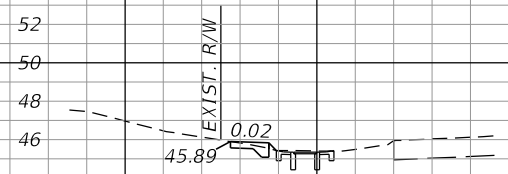
SEMINOLE COUNTY ENGINEERING DIVISION
 ROAD COUNTY CIP No.
 HOWARD BLVD 02107075

CROSS SECTIONS

SHEET NO.
20

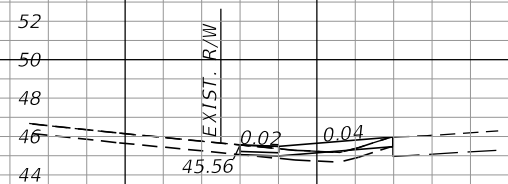
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A V A V

Regular Exc. Embankment
A V A V



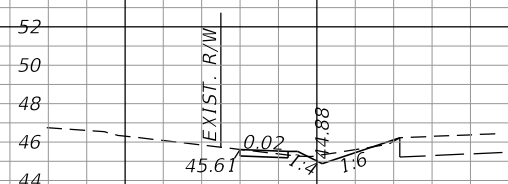
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26+00.00
DRIVEWAY

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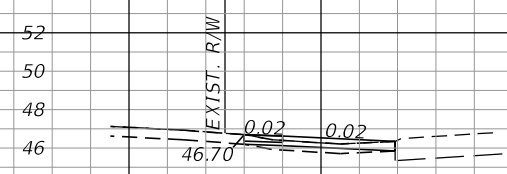
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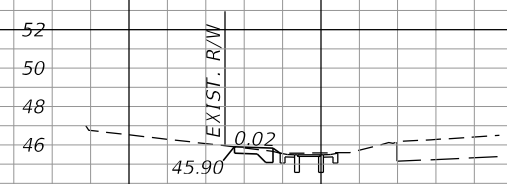
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DRIVEWAY

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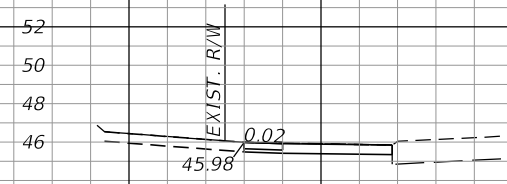
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DRIVEWAY

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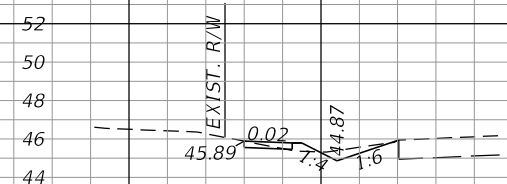
27+23.53

1.53 6.0 0.06 1.0



27+00.00
DRIVEWAY

0.0 0.0 0.0 0.0



26+50.00

2.69 1.0 0.83 0.0

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
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SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY ENGINEERING DIVISION
DAVID MARTIN
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100 East 1st. Street
Sanford, FL 32771

SEMINOLE COUNTY ENGINEERING DIVISION

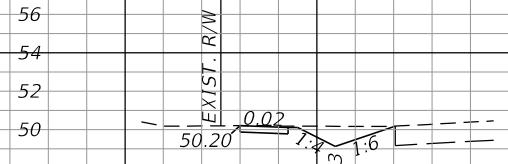
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

CROSS SECTIONS

SHEET NO.
21

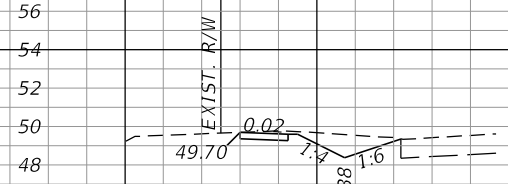
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A V A V

Regular Exc. Embankment
A V A V



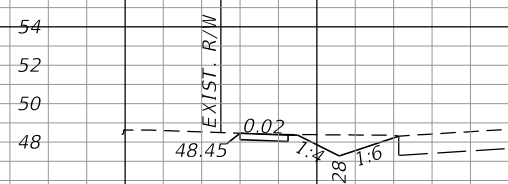
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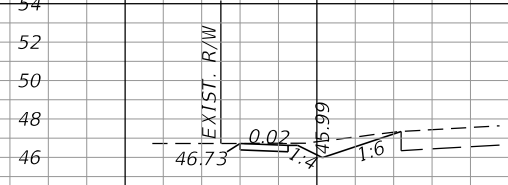
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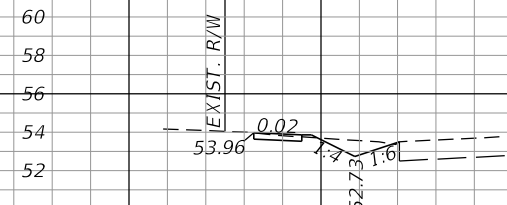
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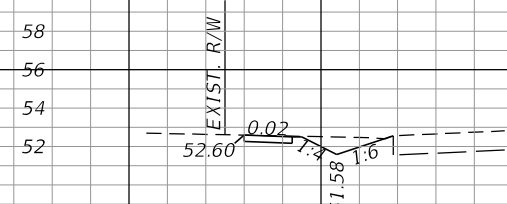
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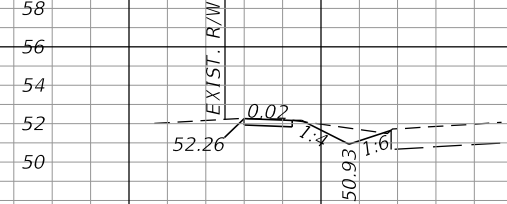
31+50.00

4.69 10.0 0.20 0.0



31+00.00

5.92 10.0 0.01 0.0



30+50.00

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30+00.00

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1" = 20' Horizontal
1" = 10' Vertical

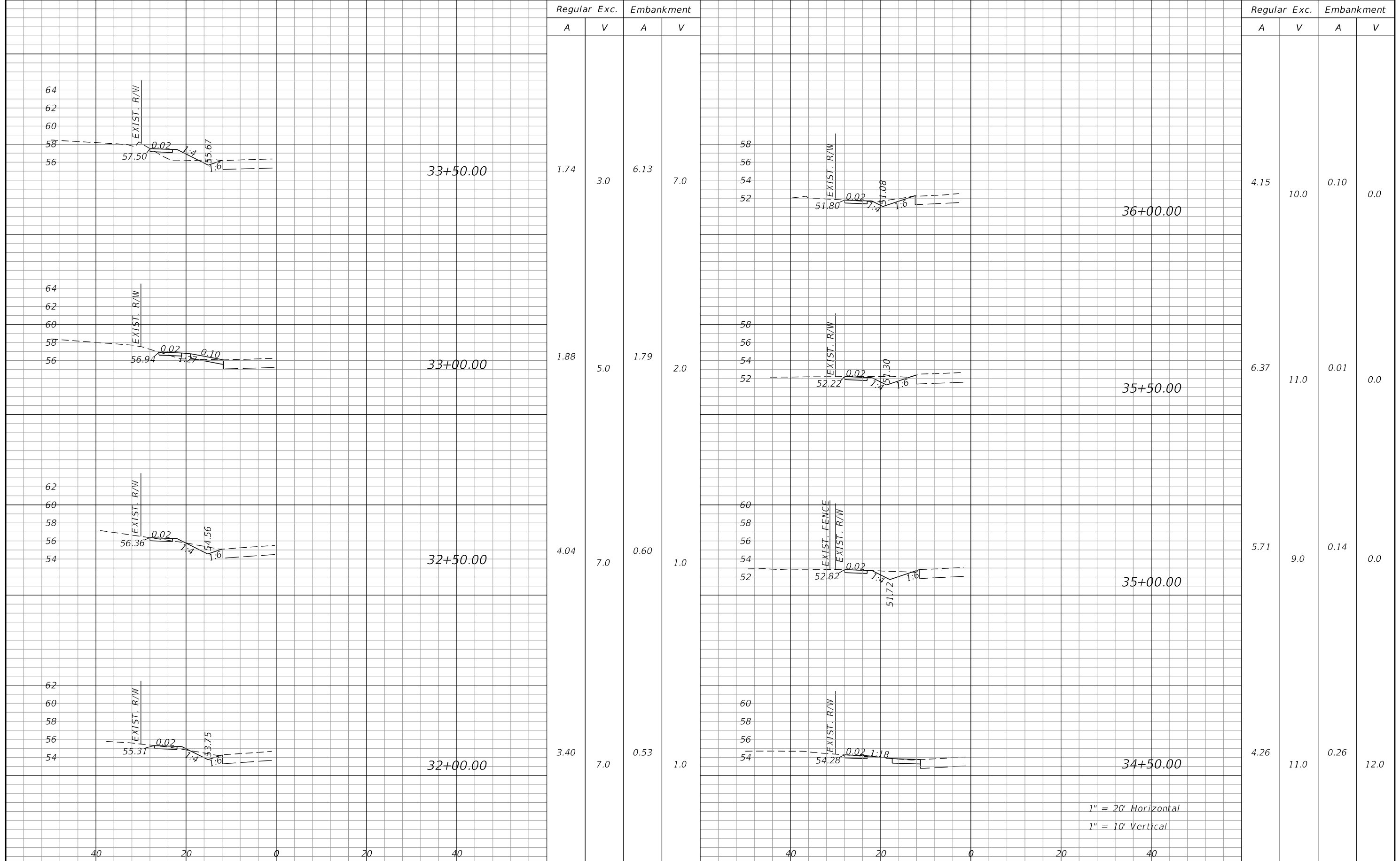
REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE
DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

SEMINOLE COUNTY
ENGINEERING DIVISION
ROAD COUNTY CIP No.
HOWARD BLVD 02107075


CROSS SECTIONS

SHEET NO.
22



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS		
DATE	DESCRIPTION	

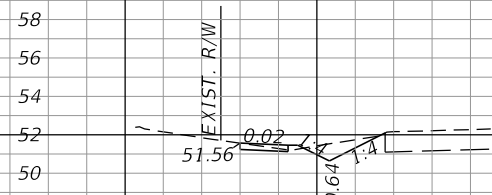

SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE
SEMINOLE COUNTY ENGINEERING DIVISION
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

SEMINOLE COUNTY ENGINEERING DIVISION
 ROAD: HOWARD BLVD
 COUNTY CIP No.: 02107075

CROSS SECTIONS
 SHEET NO. 23

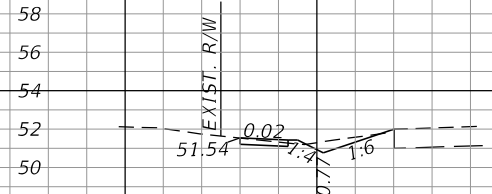
Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



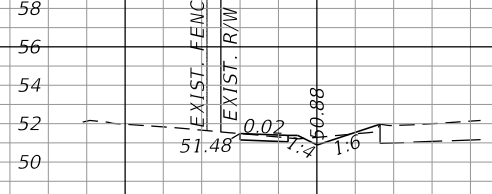
38+00.00

2.88 6.0 0.34 1.0



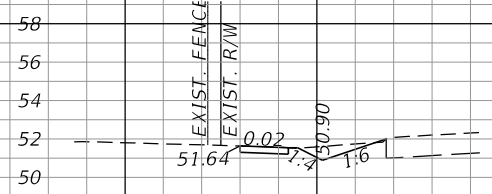
37+50.00

3.48 5.0 0.35 1.0



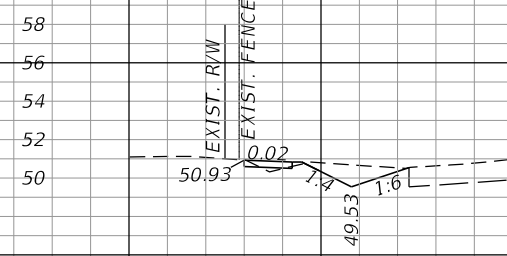
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2.33 6.0 0.74 1.0



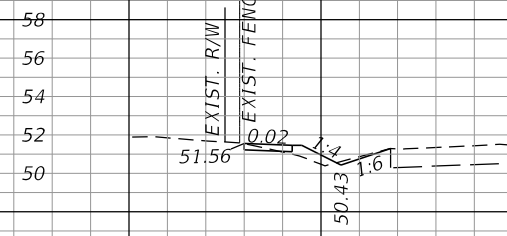
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4.60 8.0 0.08 0.0



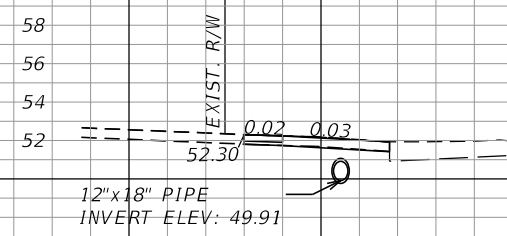
40+00.00

6.65 7.0 0.47 2.0



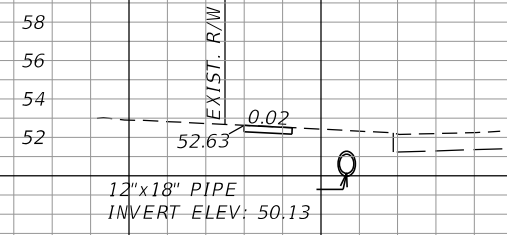
39+50.00

1.14 14.0 2.16 4.0



39+00.00
DRIVEWAY

0.0 0.0 0.0 0.0



38+50.00

6.28 8.0 0.01 0.0

1" = 20' Horizontal
1" = 10' Vertical

40 20 0 20 40

40 20 0 20 40

REVISIONS

DATE DESCRIPTION

SEMINOLE COUNTY ENGINEERING DIVISION
DAVID MARTIN
P.E. No. 46744
100 East 1st. Street
Sanford, FL 32771

SEMINOLE COUNTY ENGINEERING DIVISION
ROAD COUNTY CIP No.
HOWARD BLVD 02107075

CROSS SECTIONS

SHEET NO.
24

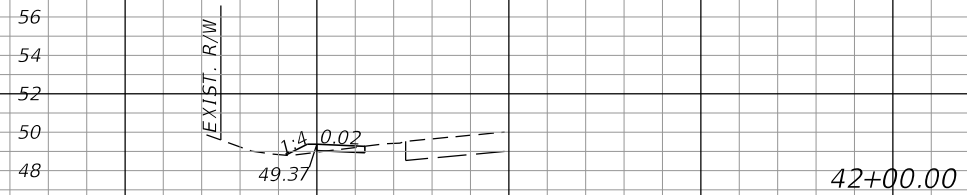
Regular Exc. Embankment

Regular Exc. Embankment

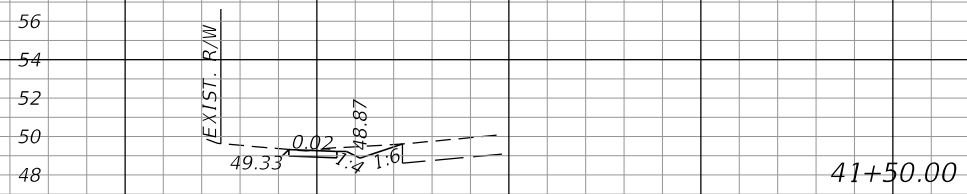
A V A V

A V A V

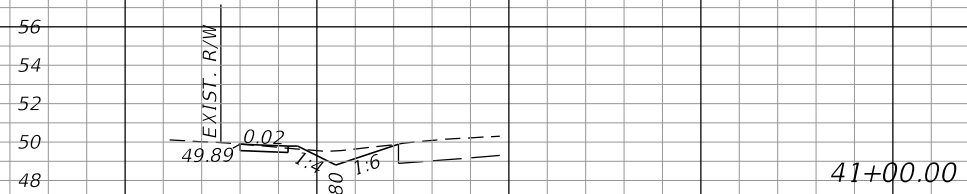
SUMMARY OF EARTHWORK			
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY	
		P	F
120-3	LATERAL DITCH EXCAVATION	486.0	
120-6	EMBANKMENT	69.0	
	30% SHRINKAGE	20.7	
	TOTAL EMBANKMENT	90	



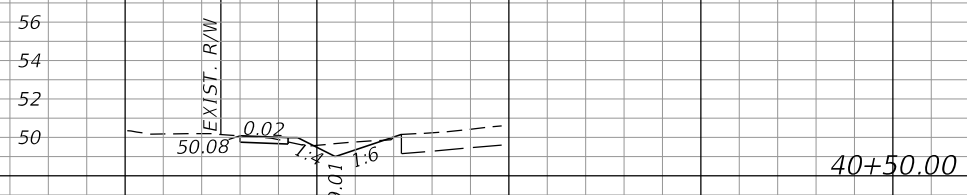
0.68 8.0 1.06 0.0



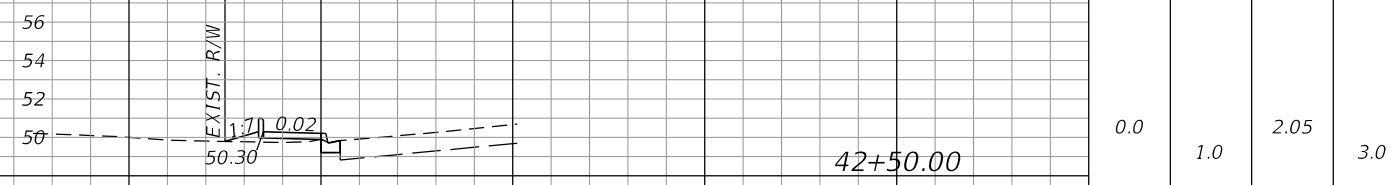
4.04 8.0 0.0 0.0



4.84 8.0 0.20 1.0



3.84 10.2 0.64 1.0



0.0 1.0 2.05 3.0

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY ENGINEERING DIVISION
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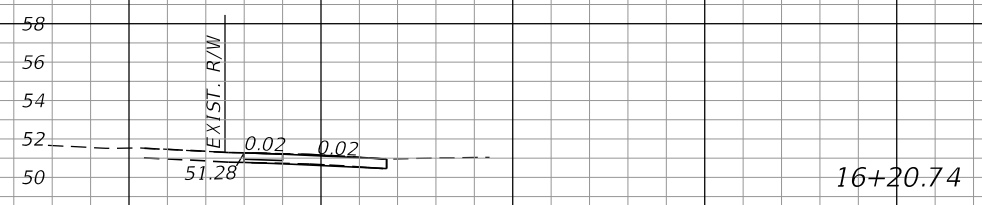
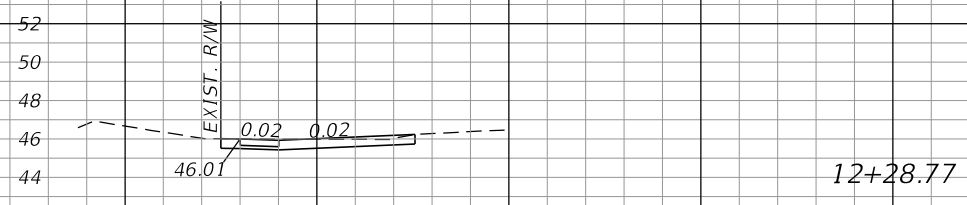
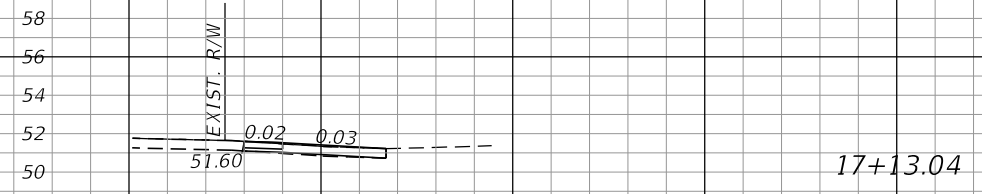
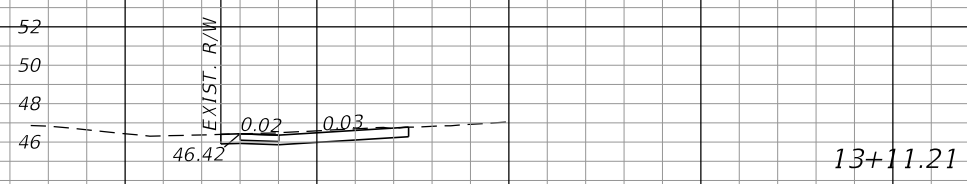
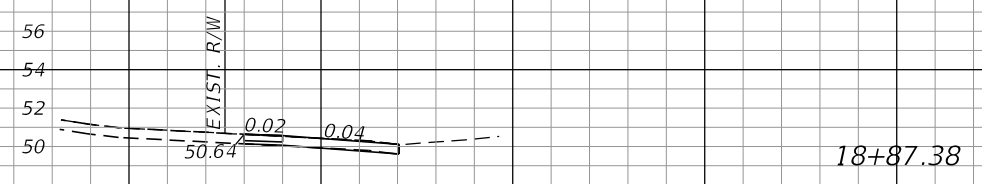
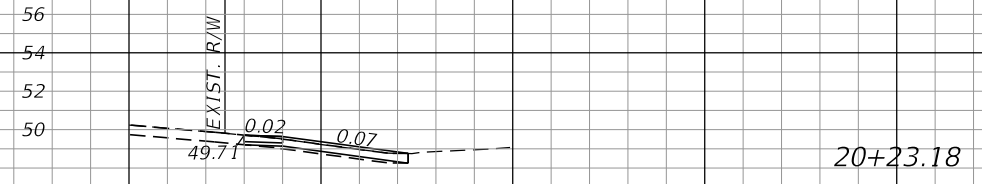
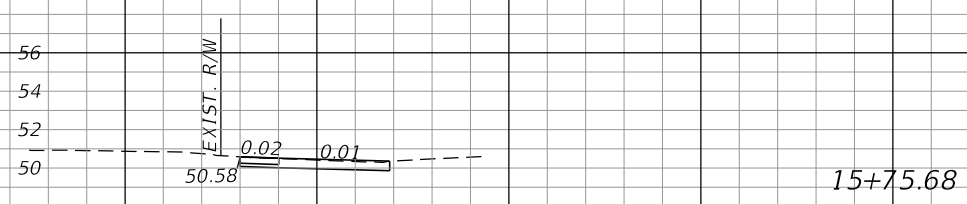
SEMINOLE COUNTY ENGINEERING DIVISION
ROAD COUNTY CIP No.
HOWARD BLVD 02107075

CROSS SECTIONS

SHEET NO.
25

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY
ENGINEERING DIVISION

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SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD COUNTY CIP No.

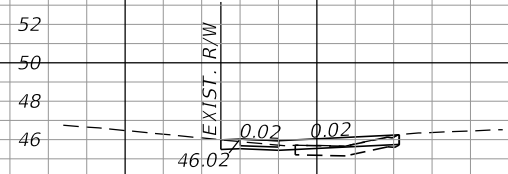
HOWARD BLVD 02107075

**DRIVEWAY
CROSS SECTIONS**

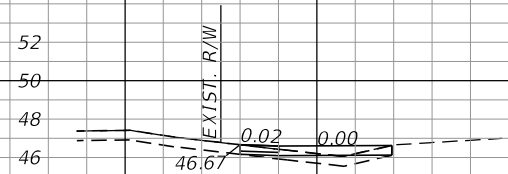
SHEET NO.
26

Regular Exc.		Embankment	
A	V	A	V

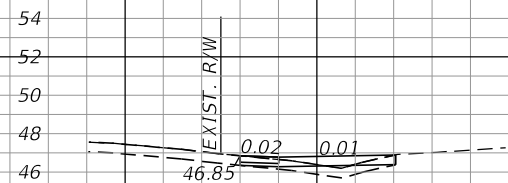
Regular Exc.		Embankment	
A	V	A	V



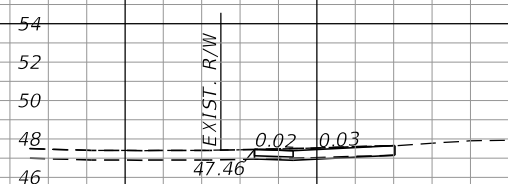
25+33.89



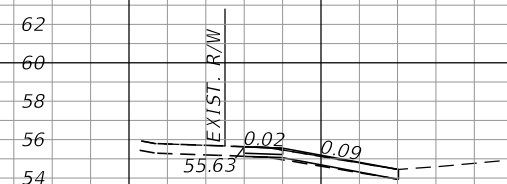
23+71.06



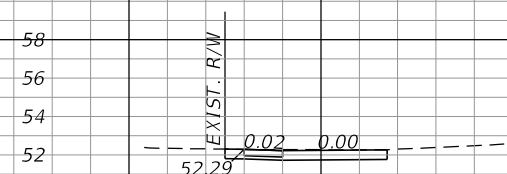
23+05.97



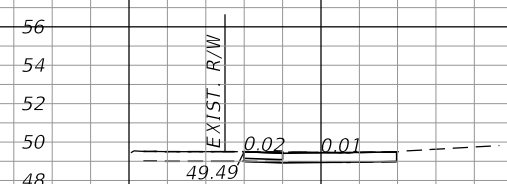
22+18.24



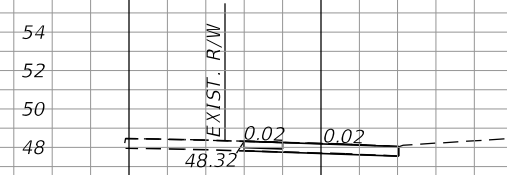
32+13.93



30+84.95



29+11.74



28+40.22

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS		
DATE	DESCRIPTION	

SEMINOLE COUNTY
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SEMINOLE COUNTY
ENGINEERING DIVISION

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Sanford, FL 32771

SEMINOLE COUNTY
ENGINEERING DIVISION

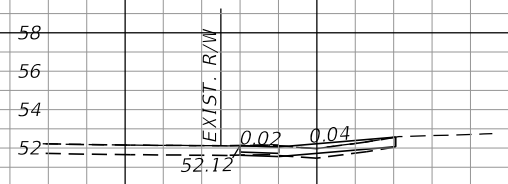
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

**DRIVEWAY
CROSS SECTIONS**

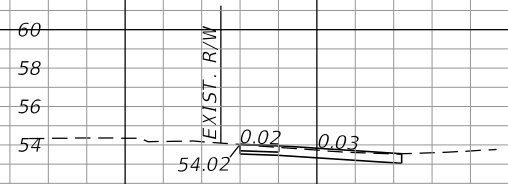
SHEET NO.
27

Regular Exc. Embankment
A V A V

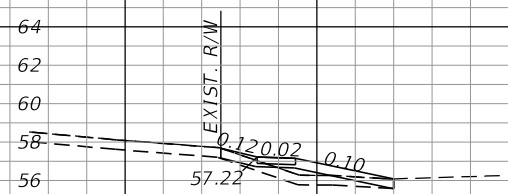
Regular Exc. Embankment
A V A V



35+28.90



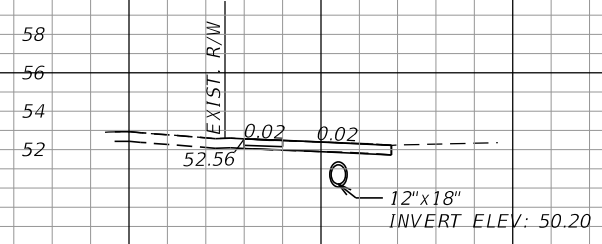
34+59.91



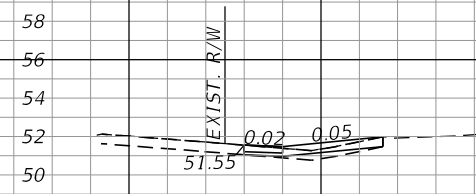
33+06.77



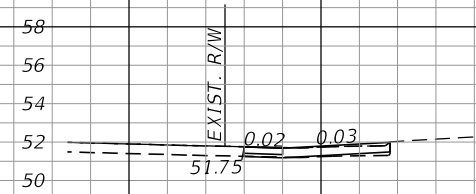
32+80.82



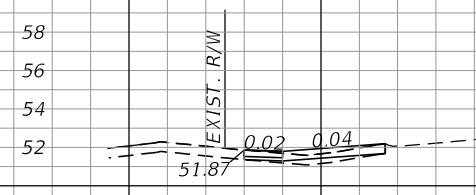
38+32.43



37+13.51



36+60.34



36+22.44

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY
ENGINEERING DIVISION

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Sanford, FL 32771

SEMINOLE COUNTY
ENGINEERING DIVISION

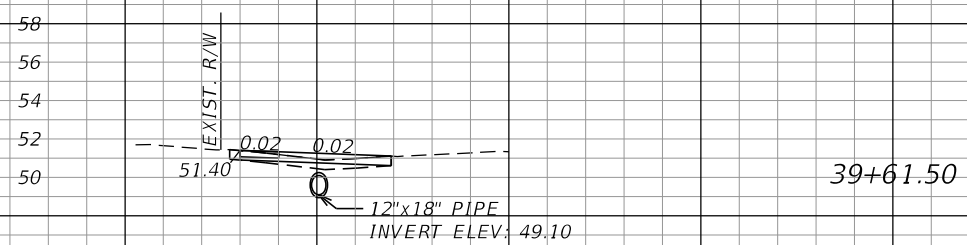
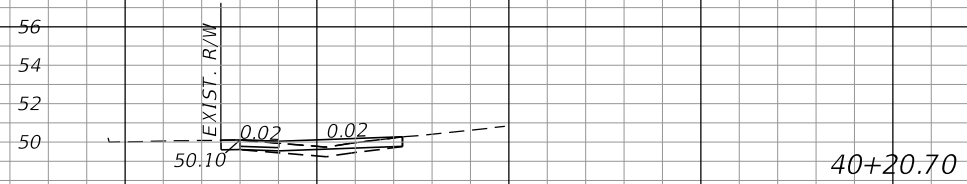
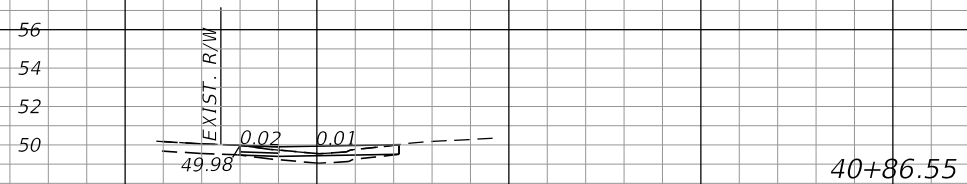
ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

**DRIVEWAY
CROSS SECTIONS**

SHEET NO.
28

Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V



1" = 20' Horizontal
1" = 10' Vertical

40 20 0 20 40

REVISIONS	
DATE	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

SEMINOLE COUNTY ENGINEERING DIVISION
DAVID MARTIN
P.E. No. 46744
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Sanford, FL 32771

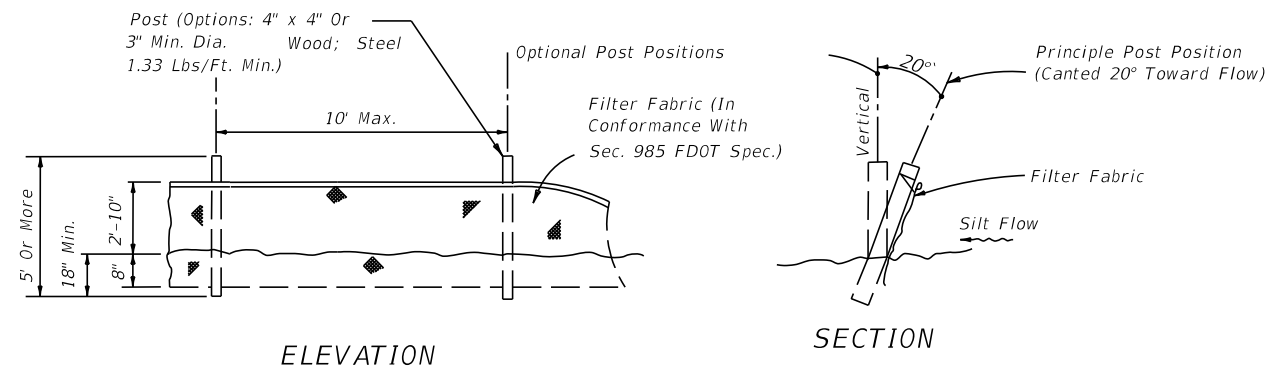
SEMINOLE COUNTY ENGINEERING DIVISION

ROAD	COUNTY CIP No.
HOWARD BLVD	02107075

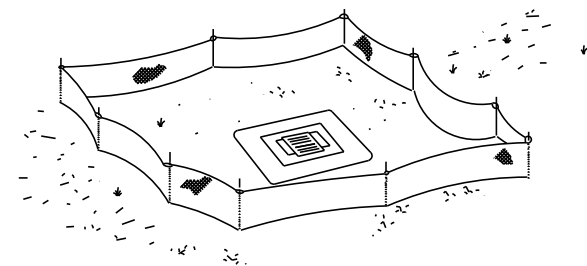
**DRIVEWAY
CROSS SECTIONS**

SHEET NO.
29

EROSION CONTROL NOTES



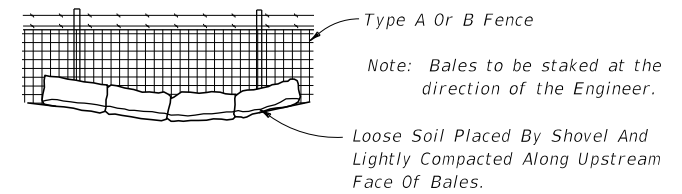
TYPE IV SILT FENCE



Type IV Silt Fence Protection Around Ditch Bottom Inlets.

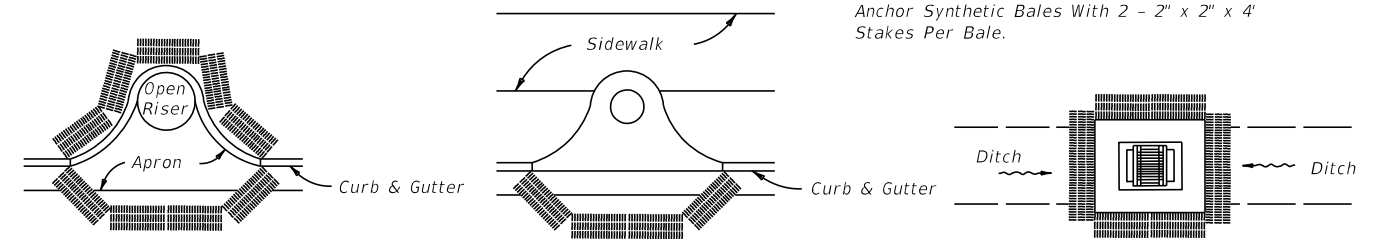
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



Type A Or B Fence
Note: Bales to be staked at the direction of the Engineer.
Loose Soil Placed By Shovel And Lightly Compacted Along Upstream Face Of Bales.


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.



Anchor Synthetic Bales With 2 - 2" x 2" x 4" Stakes Per Bale.

PARTIAL INLET COMPLETED INLET DITCH BOTTOM INLET

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

REVISIONS			 SEMINOLE COUNTY <small>FLORIDA'S NATURAL CHOICE</small>	SEMINOLE COUNTY ENGINEERING DIVISION		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO. 30
DATE	DESCRIPTION	ROAD		COUNTY CIP No.			
		HOWARD BLVD	02107075				

DAVID MARTIN
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Sanford, FL 32771

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3			
			LF			
			P	F		
12+37.48 to 13+02.48	LT		68.1			
13+19.94 to 14+02.15	LT		82.2			
14+23.86 to 14+92.76	LT		68.9			
15+07.48 to 15+70.08	LT		62.6			
15+81.28 to 16+10.83	LT		29.6			
16+30.65 to 17+07.14	LT		76.5			
17+18.94 to 17+83.95	LT		65.0			
18+08.38 to 18+76.09	LT		67.7			
18+98.68 to 20+13.77	LT		117.5			
20+32.60 to 21+40.74	LT		109.3			
21+62.98 to 22+12.58	LT		50.4			
22+23.90 to 23+00.95	LT		77.5			
23+11.00 to 23+65.98	LT		57.0			
23+76.15 to 23+98.47	LT		22.3			
24+08.14 to 24+95.56	LT		87.4			
25+06.44 to 25+29.03	LT		22.6			
25+38.74 to 25+90.56	LT		53.7			
26+06.75 to 26+90.42	LT		84.1			
27+00.17 to 27+41.22	LT		41.4			
27+57.07 to 28+35.62	LT		81.0			
28+44.82 to 29+03.66	LT		58.8			
29+19.81 to 30+78.60	LT		159.8			
30+91.98 to 32+08.99	LT		118.0			
32+18.88 to 32+75.83	LT		57.4			
32+85.80 to 33+01.32	LT		15.5			
33+12.23 to 33+88.13	LT		75.9			
34+16.41 to 34+52.38	LT		36.0			
34+67.44 to 35+21.97	LT		54.5			
35+35.83 to 36+17.95	LT		82.1			
36+26.93 to 36+54.14	LT		29.1			
36+66.53 to 37+08.28	LT		41.7			
37+18.74 to 38+21.47	LT		103.6			
38+43.42 to 38+97.39	LT		56.8			
39+06.61 to 39+56.96	LT		53.0			
39+66.04 to 40+16.18	LT		52.8			
40+25.51 to 40+82.67	LT		57.2			
SUB-TOTAL:			2377.0			
TOTAL:			2377			

SUMMARY OF REMOVAL OF EXISTING CONCRETE

LOCATION STA. TO STA.	SIDE	LENGTH	WIDTH	REMOVAL OF EXISTING CONCRETE		DESIGN NOTES
				110-4-1		
				SY		
				P	F	
14+02.34 to 14+32.92	LT			36.5		
16+07.03 to 16+34.86	LT			35.0		
17+02.66 to 17+22.55	LT			22.5		
17+84.47 to 18+10.27	LT			40.4		
18+75.92 to 19+00.03	LT			39.8		
20+13.76 to 20+35.56	LT			37.3		
22+10.59 to 22+27.29	LT			19.9		
22+96.42 to 23+15.41	LT			20.7		
23+61.05 to 23+80.26	LT			20.1		
23+93.66 to 24+12.81	LT			22.1		
24+91.37 to 25+10.24	LT			13.1		
25+24.62 to 25+43.42	LT			12.7		
25+87.33 to 26+11.19	LT			32.8		
26+89.77 to 27+01.52	LT			18.5		
27+39.38 to 27+60.44	LT			32.6		
28+32.94 to 28+47.11	LT			20.0		
29+02.18 to 29+21.96	LT			30.8		
32+06.43 to 32+22.90	LT			22.5		
32+73.70 to 32+88.25	LT			16.7		
33+01.28 to 33+12.56	LT			5.2		
35+14.44 to 35+43.42	LT			36.5		
36+13.85 to 36+31.77	LT			19.1		
36+50.14 to 36+70.53	LT			25.1		
37+02.40 to 37+24.08	LT			22.3		
38+15.31 to 38+46.99	LT			44.1		
38+92.43 to 39+11.27	LT			20.4		
39+53.01 to 39+69.60	LT			21.8		
40+11.08 to 40+31.56	LT			24.2		
40+76.57 to 40+96.12	LT			21.4		
42+51.59 to 42+67.93	LT			40.4		
SUB-TOTAL:				774.5		
TOTAL:				775		

SUMMARY OF EARTHWORK


PAY ITEM NO.	PAY ITEM DESCRIPTION	CY	
		P	F
120-3	LATERAL DITCH EXCAVATION	486.0	
120-6	EMBANKMENT	69.0	
	30% SHRINKAGE	20.7	
TOTAL EMBANKMENT		90	

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	CONCRETE CURB & GUTTER (TYPE F)	42+13.87 to 42+67.84	LT		LF	73.7				74				
0520-2-4	CONCRETE CURB (TYPE D)	42+46.43 to 42+57.60	LT		LF	11.0				11				

REVISIONS

DATE	DESCRIPTION


SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD COUNTY CIP No.
 HOWARD BLVD 02107075

SUMMARY OF QUANTITIES


SHEET NO.

SQ-1

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
12+37.48 to 13+02.48	LT	3486			37.8							
13+19.94 to 14+02.15	LT	3499			45.6							
14+23.86 to 14+92.76	LT	3506			38.2							
15+07.48 to 15+70.08	LT	3521			34.7							
15+81.28 to 16+10.83	LT	3529			16.4							
16+30.65 to 17+07.14	LT	3598			42.4							
17+18.94 to 17+83.95	LT	3605			36.1							
18+08.38 to 18+76.09	LT	3612			37.6							
18+98.68 to 20+13.77	LT	3619			65.2							
20+32.60 to 21+40.74	LT	3634			60.4							
21+62.98 to 22+12.58	LT	3644			27.0							
22+23.90 to 23+00.95	LT	3655			43.0							
23+11.00 to 23+65.98	LT	3666			31.6							
23+76.15 to 23+98.47	LT	3681			12.4							
24+08.14 to 24+95.56	LT	3688			48.5							
25+06.44 to 25+29.03	LT	3695			12.5							
25+38.73 to 25+90.56	LT	3711			29.8							
26+06.75 to 26+90.42	LT	3723			37.9							
27+00.15 to 27+41.22	LT	3736			19.0							
27+57.07 to 28+35.62	LT	3751			45.0							
28+44.82 to 29+03.66	LT	3766			32.6							
29+19.81 to 30+78.60	LT	3773			88.7							
30+91.98 to 32+08.99	LT	3784			65.5							
32+18.88 to 32+75.83	LT	3799			31.8							
32+85.79 to 33+01.32	LT	3810			8.6							
33+12.22 to 33+88.13	LT	3816			41.3							
34+16.41 to 34+52.38	LT	3823			19.0							
34+67.44 to 35+21.97	LT	3831			30.3							
35+35.83 to 36+17.95	LT	3837			45.6							
36+26.93 to 36+54.14	LT	3844			16.1							
36+66.53 to 37+08.28	LT	3859			23.1							
37+18.74 to 38+21.53	LT	3866			57.4							
38+43.42 to 38+97.39	LT	3873			31.3							
39+06.61 to 39+56.96	LT	3881			29.2							
39+66.04 to 40+16.18	LT	3892			29.1							
40+25.51 to 40+82.67	LT	3898			31.7							
40+90.44 to 42+49.33	LT	3904			94.5							
42+57.52 to 42+65.94	LT				23.4							
12+16.03 to 12+41.45	LT	4475					45.9					
12+98.48 to 13+23.95	LT	4483					40.5					
13+98.15 to 14+27.86	LT	4492					43.0					
14+88.76 to 15+11.48	LT	4501					31.9					
15+66.08 to 15+85.28	LT	4543					25.0					
16+06.83 to 16+34.65	LT	4552					37.9					
17+03.14 to 17+22.94	LT	4561					24.6					
17+79.94 to 18+12.38	LT	4570					47.5					
18+72.09 to 19+02.68	LT	4576					46.4					
SUB-TOTAL:					1420.3		342.7					
TOTAL:					1420		1039		59			

REVISIONS		
DATE	DESCRIPTION	


SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771


SEMINOLE COUNTY
 ENGINEERING DIVISION
 ROAD: HOWARD BLVD
 COUNTY CIP No.: 02107075

SUMMARY OF QUANTITIES
 SHEET NO. SQ-2

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
20+09.77 to 20+36.60	LT	4584					42.0					
22+08.58 to 22+27.90	LT	4593					23.5					
22+96.95 to 23+15.00	LT	4602					23.9					
23+61.98 to 23+80.15	LT	4611					23.6					
23+94.46 to 24+12.14	LT	4620					22.9					
24+91.56 to 25+10.44	LT	4629					24.7					
25+25.02 to 25+42.73	LT	4638					26.1					
25+86.56 to 26+10.75	LT	4648					34.4					
26+86.40 to 27+04.10	LT	4657					23.0					
27+37.22 to 27+61.07	LT	4666					34.5					
28+31.62 to 28+48.82	LT	4675					22.5					
28+99.66 to 29+23.81	LT	4684					34.6					
30+74.60 to 30+95.98	LT	4692					18.0					
32+04.99 to 32+22.88	LT	4701					23.5					
32+71.83 to 32+89.78	LT	4709					20.1					
32+97.30 to 33+16.21	LT	4718					22.2					
34+48.36 to 34+71.41	LT	4727					34.3					
35+17.97 to 35+39.83	LT	4737					30.8					
36+13.95 to 36+30.93	LT	4746					19.9					
36+50.14 to 36+70.53	LT	4755					26.4					
37+04.27 to 37+22.74	LT	4764					21.9					
38+17.16 to 38+47.45	LT	4773					44.8					
38+93.41 to 39+10.69	LT	4782					21.7					
39+52.93 to 39+70.09	LT	4796					22.3					
40+12.18 to 40+29.52	LT	4805					24.0					
40+78.67 to 40+94.44	LT	4814					20.3					
42+46.43 to 42+62.33	LT						10.8					
21+36.97 to 21+40.74	LT	5214							10.6			
21+62.98 to 21+71.17	LT	5222							14.4			
33+82.20 to 33+88.13	LT	5227							12.2			
34+16.41 to 34+22.50	LT	5232							12.4			
42+53.70 to 42+58.47	LT								9.6			
SUB-TOTAL:							696.7		59.2			

REVISIONS		
DATE	DESCRIPTION	


SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771

SEMINOLE COUNTY
ENGINEERING DIVISION
 ROAD: **HOWARD BLVD**
 COUNTY CIP No.: **02107075**


SUMMARY OF QUANTITIES

SHEET NO.
SQ-3

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
P	F							
12+37.48 to 13+02.48	LT	5788			15.1			
12+37.80 to 13+02.16	LT	5780			71.2			
13+19.94 to 14+02.15	LT	5807			18.3			
13+20.26 to 14+01.77	LT	5802			105.4			
14+23.86 to 14+92.76	LT	5821			15.3			
14+24.24 to 14+92.40	LT	5815			79.9			
15+07.48 to 15+70.08	LT	5826			13.9			
15+07.84 to 15+69.70	LT	5833			70.0			
15+81.28 to 16+10.83	LT	5840			6.6			
15+81.66 to 16+10.43	LT	5846			28.4			
16+30.65 to 17+07.14	LT	5859			17.0			
16+31.05 to 17+06.73	LT	5861			79.6			
17+18.94 to 17+83.95	LT	5867			14.4			
17+19.34 to 17+83.56	LT	5873			70.3			
18+08.38 to 18+76.09	LT	5884			15.0			
18+08.76 to 18+75.73	LT	5891			77.4			
18+98.68 to 20+13.77	LT	5914			26.1			
18+99.03 to 20+13.44	LT	5907			133.0			
20+32.60 to 21+40.74	LT	5928			24.3			
20+32.93 to 21+39.31	LT	5937			116.0			
21+61.72 to 22+12.58	LT	5954			11.3			
21+67.68 to 22+12.17	LT	5949			27.4			
22+23.90 to 23+00.95	LT	5974			17.2			
22+24.32 to 23+00.60	LT	5968			82.6			
23+11.00 to 23+65.98	LT	5997			12.7			
23+11.36 to 23+65.62	LT	5989			49.1			
23+76.15 to 23+98.47	LT	6006			5.0			
23+76.53 to 23+98.10	LT	6013			21.3			
24+08.14 to 24+95.56	LT	6020			19.4			
24+08.51 to 24+95.19	LT	6027			105.1			
25+06.44 to 25+29.03	LT	6034			5.0			
25+06.81 to 25+28.69	LT	6041			21.0			
25+38.74 to 25+90.56	LT	6062			11.9			
25+39.08 to 25+90.20	LT	6055			57.1			
26+06.75 to 26+90.41	LT	6090			107.3			
26+06.75 to 26+90.42	LT	6076			18.7			
27+00.15 to 27+41.22	LT	6128			9.2			
27+00.15 to 27+41.22	LT	6109			50.2			
27+57.07 to 28+35.62	LT	6143			18.0			
27+57.43 to 28+35.25	LT	6121			88.2			
28+44.82 to 29+03.66	LT	6152			13.1			
28+45.17 to 29+03.30	LT	6159			70.5			
29+19.81 to 30+78.60	LT	6181			35.5			
29+20.17 to 30+77.72	LT	6171			172.6			
30+91.98 to 32+08.99	LT	6207			26.2			
30+92.71 to 32+08.63	LT	6199			111.6			
32+18.88 to 32+75.83	LT	6218			12.7			
SUB-TOTAL :					2177.1			
TOTAL :					3188			

REVISIONS		
DATE	DESCRIPTION	


SEMINOLE COUNTY
 FLORIDA'S NATURAL CHOICE
 DAVID MARTIN
 P.E. No. 46744
 100 East 1st. Street
 Sanford, FL 32771


SEMINOLE COUNTY
ENGINEERING DIVISION
 ROAD: HOWARD BLVD
 COUNTY CIP No.: 02107075

SUMMARY OF QUANTITIES
 SHEET NO. SQ-4

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
32+19.24 to 32+75.37	LT	6226			60.3			
32+85.80 to 33+01.32	LT	6235			3.4			
32+86.24 to 33+00.88	LT	6240			10.8			
33+12.23 to 33+89.02	LT	6251			17.0			
33+12.66 to 33+84.88	LT	6253			63.9			
34+15.32 to 34+52.38	LT	6266			8.1			
34+19.91 to 34+52.04	LT	6262			31.9			
34+67.44 to 35+21.97	LT	6271			12.1			
34+67.77 to 35+21.62	LT	6277			64.9			
35+35.83 to 36+17.95	LT	6284			18.3			
35+36.20 to 36+17.55	LT	6292			94.9			
36+26.93 to 36+54.14	LT	6303			6.5			
36+27.35 to 36+53.75	LT	6314			21.1			
36+66.53 to 37+08.28	LT	6334			9.3			
36+66.92 to 37+07.86	LT	6330			40.8			
37+18.74 to 38+21.53	LT	6350			23.0			
37+19.16 to 38+20.99	LT	6346			115.8			
38+43.42 to 38+98.56	LT	6360			12.9			
38+43.83 to 38+96.99	LT	6368			61.7			
39+06.61 to 39+56.96	LT	6388			11.8			
39+07.05 to 39+56.53	LT	6383			55.9			
39+66.04 to 40+16.18	LT	6402			11.7			
39+66.42 to 40+15.84	LT	6398			62.8			
40+25.51 to 40+82.67	LT	6420			12.7			
40+25.85 to 40+82.33	LT	6416			69.4			
49+90.44 to 42+57.67	LT				44.3			
40+90.78 to 42+13.88	LT	6453			65.7			
SUB-TOTAL:					1011			

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	ELLIPTICAL	MES
						12"X18"	12"X18"
P	S-100	38+10.53	LT.	MES, Pipe	1	106	1
F							
P	S-101	39+23.22	LT.	MES	1		1
F							
P	S-102	39+46.86	LT.	MES, Pipe	1	20	1
F							
P	S-103	39+75.93	LT.	MES	1		1
F							
Summary:						126	4

REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>			DATE	DESCRIPTION			 <p align="center"> SEMINOLE COUNTY FLORIDA'S NATURAL CHOICE DAVID MARTIN P.E. No. 46744 100 East 1st. Street Sanford, FL 32771 </p>	SEMINOLE COUNTY ENGINEERING DIVISION ROAD COUNTY CIP No. HOWARD BLVD 02107075		SHEET NO. SQ-5
DATE	DESCRIPTION									
SUMMARY OF QUANTITIES										