

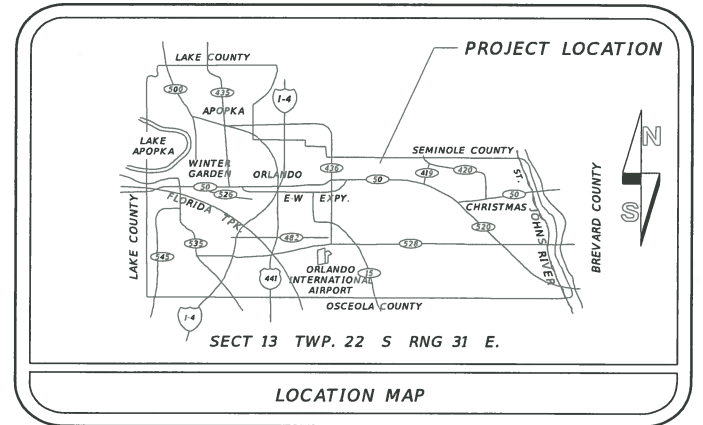


TERESA JACOBS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

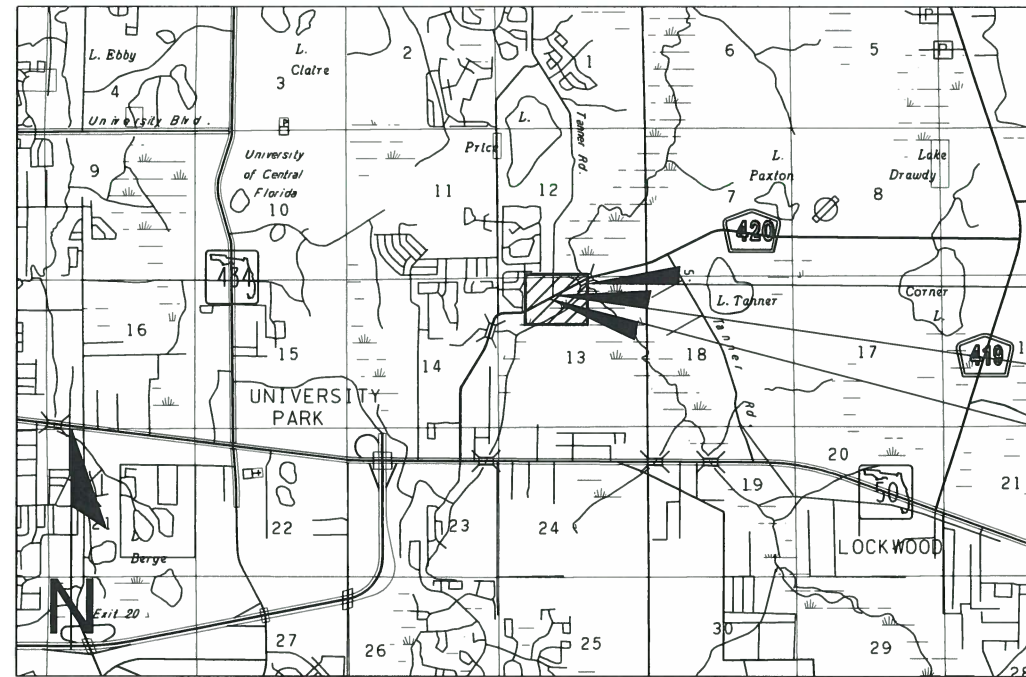
- S. SCOTT BOYD DISTRICT 1
- BRYAN NELSON DISTRICT 2
- PETE CLARKE DISTRICT 3
- JENNIFER THOMPSON DISTRICT 4
- TED EDWARDS DISTRICT 5**
- VICTORIA P. SIPLIN DISTRICT 6
- MARK V. MASSARO, P.E. PUBLIC WORKS DIRECTOR

# CONSTRUCTION PLANS FOR LAKE PICKETT ROAD AT NORTH TANNER ROAD INTERSECTION IMPROVEMENTS ORANGE COUNTY CIP NO. 2722 DISTRICT NO. 5 ORANGE COUNTY, FLORIDA



T-21-S  
T-22-S

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VICINITY MAP  
N.T.S.

PROJECT LOCATION  
END PROJECT  
STA. 110+00  
BEGIN PROJECT  
STA. 103+00

LEGEND	
EXIST. EDGE OF PAVT. ---	RATE OF SUPERELEVATION
PROPOSED PAVEMENT	TELEPHONE POLE
RIGHT OF WAY LINE	OVERHEAD TELEPHONE
SEWER STORM INLET	BURIED POWER CABLE
SURVEY REFERENCE POINT	TELEPHONE DUCT
POINT OF INTERSECTION	LIGHT POLE
BASE LINE	GAS MAIN
CENTER LINE	SANITARY SEWER
PROPERTY LINE	FIRE HYDRANT
DELTA ANGLE	
APPROXIMATE	
ROUND	OVERHEAD CABLE TV
CURB	CONCRETE MONUMENT
CURB & GUTTER	IRON ROD
BARBED WIRE FENCE	IRON PIPE
	BUSH
WATER METER	GATE POST
VALVE	TRAFFIC SIGN
WATER MAIN	MAIL BOX
COMBINATION POLE	STORM SEWER, SIZE & TYPE
POWER POLE	CATCH BASIN
GUY WIRE	CLEAN OUT
OVERHEAD POWER	EXIST. MANHOLE
BURIED TELEPHONE CABLE	
TELEPHONE PEDESTAL	
BURIED TV CABLE	
BENCHMARK	CHAIN LINK FENCE
SOIL BORING	FENCE GATE
PALM TREE & SIZE	TREE TYPE & SIZE
SWALE FLOW LINE	O = OAK CA = CAMPHOR
SIGNAL MAST ARM	E = ELM EA = EAR
TRAFFIC SIGNAL CABLE	CE = CEDER P = PINE
	C = CHERRY M = MAPLE

LENGTH OF PROJECT		
	LINEAR FEET	MILES
LAKE PICKETT RD.	700	0.13
NORTH TANNER RD.	103	0.02

NOTE :  
PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY CHANGE SINCE PLANS PREPARATION.

### CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: OCTOBER 2015 ENGINEER: ERIC L. WHIKEHART, P.E. PE NO.: 70776

UTILITIES ENCOUNTERED	
COMPANY NAME	TELEPHONE NO.
ORANGE COUNTY UTILITIES (OCU)	407-254-9706
COMCAST COMMUNICATIONS	407-849-3611
ORANGE COUNTY TRAFFIC OPS	407-836-7890
DUKE ENERGY - DISTRIBUTION (DE)	407-359-4404
AT&T DISTRIBUTION (AT&T)	407-351-8181

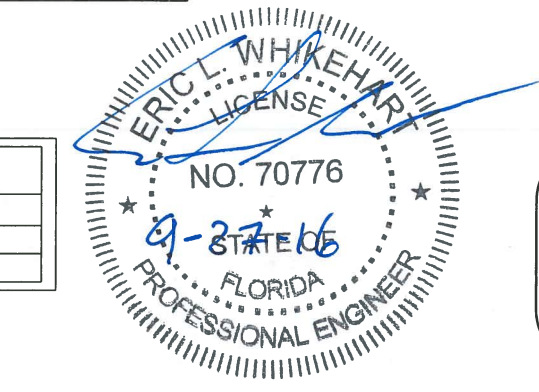
CONFORMED SUBMITTAL  
SEPTEMBER 27, 2016

**ORANGE COUNTY BENCH MARKS USED**

**SITE BENCHMARK**  
VERTICAL INFORMATION SHOWN HEREON REFERS TO ORANGE COUNTY VERTICAL CONTROL DATA BENCHMARK, DESIGNATION-5 78 RESET, PID-AK0465, PUBLISHED. ELEVATION=74.61(FEET), DATUM NAVD88.

**SITE BENCHMARK**  
THE HORIZONTAL POSITIONS FOR ALL FEATURES SHOWN ON THE MAP ARE RELATIVE TO NORTH AMERICAN DATUM, NAD 1983, 2011 ADJUSTMENT, STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE. CONTROL POINT(S) USED FOR THIS SURVEY ARE NATIONAL GEODETIC SURVEY, NGS POINTS PID#AK0465 AND PID#AK7138; DISTANCES SHOWN ARE GRID DISTANCES.

**GOVERNING STANDARDS AND STANDARD SPECIFICATIONS :**  
FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, DATED 2014 AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2014 AS AMENDED BY CONTRACT DOCUMENTS.



PREPARED BY:  
TLP ENGINEERING CONSULTANTS, INC.  
11486 CORPORATE BLVD., SUITE 151  
ORLANDO, FL. 32817  
PHONE: 407-901-5060  
CERT. OF AUTH. #27205

REVISIONS	DATE	BY

DESIGNED BY: <u>ELW</u> DATE: <u>JUNE 2015</u>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>SHEET</b> <u>1</u> <b>OF</b> <u>46</u> </div>
CHECKED BY: <u>SWD</u> DATE: <u>JUNE 2015</u>	
APPROVED BY: <u>YMM</u> DATE: <u>JUNE 2015</u>	



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE 2014 EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
2. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
3. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARD 532.
4. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
5. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
7. SOD ALL SLOPES. SLOPES STEEPER THAN 3:1 SHALL BE PEGGED.
8. SAW CUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION.
9. ALL PAVEMENT OFFSETS SHOWN ARE TO PROPOSED BASELINE OF CONSTRUCTION; ALL RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.
10. FOR STABILIZATION AT TURNOUTS AND DRIVEWAY CONNECTIONS SEE STANDARD INDEX No. 515 AND TYPICAL SECTIONS FOR DEPTH AND LBR.
11. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY AS DIRECTED BY THE ENGINEER.
12. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE UNIT PRICES STATED ON THE SUMMARY OF PAY ITEMS; EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
13. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
14. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.
15. UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER. THE EXISTING TRAFFIC SIGNAL CABLE WILL BE RELOCATED BY CONTRACTOR PER CONTRACT SIGNALIZATION PLANS.
16. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
17. ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.
18. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
19. ALL MANHOLE COVERS SHALL INCLUDE THE ORANGE COUNTY LOGO AND BE IDENTIFIED AS "ORANGE COUNTY SANITARY", "ORANGE COUNTY STORM", OR "ORANGE COUNTY WATER", AS APPROPRIATE. (SEE STANDARD DETAILS)

20. ALL INLET/MANHOLE - PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALT MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. ALL PIPE JOINTS IN THIS PROJECT SHALL BE WRAPPED PER FDOT STANDARD INDEX No. 280 OR AS DIRECTED BY THE ENGINEER, COST TO BE INCLUDED IN THE COST OF THE PIPE CULVERT.
21. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
22. ALL EXISTING DRAINAGE STRUCTURES AND PIPES IF ABANDONED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED, UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
23. DESIGN CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.
25. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
26. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION (RON CLARKE) 407-836-7947 AND BOTH SHALL NOTIFY:  
STATE GEODETIC ADVISOR  
3900 COMMONWEALTH BOULEVARD, SUITE 309,  
TALLAHASSEE, FL  
850-245-2606
- ORANGE COUNTY BENCHMARKS SHALL BE PRESERVED. IF AN ORANGE COUNTY BENCHMARK IS IN DANGER OF BEING DESTROYED, CONTACT ORANGE COUNTY SURVEY SECTION (RON CLARKE) 407-836-7947 ONE WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY THAT MAY DAMAGE SAID BENCHMARK.
27. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE 407-836-7940. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.

28. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
29. TO MEET ADA REQUIREMENTS, ALL SIDEWALK CONSTRUCTION SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
30. FOR PEDESTRIAN CURB CUT RAMP DETAILS, REFER TO FDOT STANDARD INDEX 304. NOMENCLATURE SHOWN IN THE PLANS REFERS TO THE RAMP TYPES IDENTIFIED IN INDEX 304.
31. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. SIGNS, WHICH ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS AS SHOWN ON THE SIGNING PLANS OR AS DIRECTED BY THE ENGINEER. SIGNS NOT TO BE RE-INSTALLED SHALL BE DELIVERED TO ORANGE COUNTY'S TRAFFIC SIGN SHOP. DAMAGED SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO ORANGE COUNTY. COST OF RELOCATION, MAINTENANCE, REMOVAL AND LEFTOVER SHALL BE INCLUDED IN THE UNIT PRICES STATED ON THE SUMMARY OF PAY ITEMS.

**CAUTION:**  
CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS OR SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE GAS FACILITIES IS BY AN ON-SITE INSPECTION BY T.E.C.O. GAS SYSTEMS THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE T.E.C.O. GAS FACILITIES US AT 407-425-4661 TWO WORKING DAYS BEFORE DIGGING IN A CONSTRUCTION AREA.



TLP ENGINEERING CONSULTANTS, INC.  
11486 CORPORATE BLVD, SUITE 151  
ORLANDO, FL. 32817  
PH. 407-901-5060  
ERIC L. WHITEHART, P.E. 70776  
CERT. OF AUTH. #27205

DESIGN PLANS FOR:  
LAKE PICKETT RD AT N. TANNER RD  
INTERSECTION IMPROVEMENTS

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**GENERAL NOTES**  
**(SHEET 1 OF 2)**

SHEET NO.  
2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**GENERAL NOTES  
(CONTINUED)**

32. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT". TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.

33. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTED CONSTRUCTION.

34. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND SIDEWALKS TO MATCH THE PROPOSED PAVEMENT TO THE EXISTING.

35. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAT THE CONDITION EXISTING. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

36. ALL CONCRETE SHALL BE MIN. OF 3,000 PSI.

37. EXISTING UTILITIES ARE TO REMAIN UNLESS THEY ARE NOTED OTHERWISE IN THE UTILITY ADJUSTMENT SHEETS.

38. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMIT, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. THE LOCATION OF UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY, THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES AND ANY UTILITY ADJUSTMENT REQUIRED. UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION.

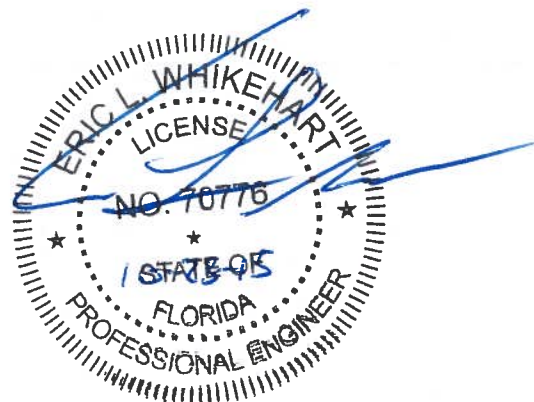
39. UTILITY CONTACTS ARE AS FOLLOWS:

A. AT&T SOUTHEAST  
ALAN REYNOLDS  
5100 STEYR STREET  
ORLANDO, FL 32819  
407-351-8181  
ar2916@att.com

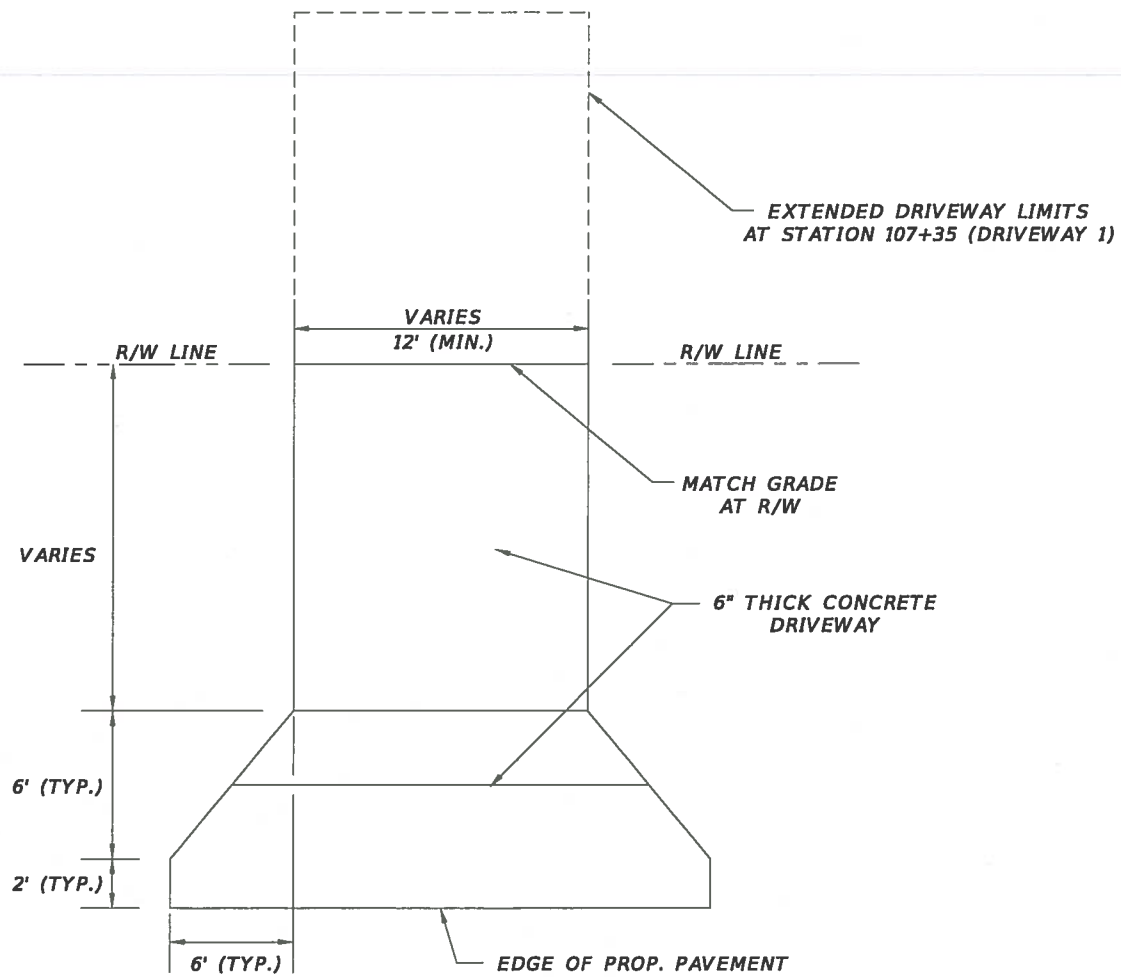
B. COMCAST COMMUNICATIONS  
CESAR RIVERA  
4305 VINELAND ROAD, SUITE G-2  
ORLANDO, FL 32811  
407-849-3611  
cesar\_rivera@cable.comcast.com

C. DUKE-ENERGY DISTRIBUTION  
OSCAR J. SALAS  
2801 WEST S.R. 426  
OVIEDO, FL 32765  
407-359-4404  
oscar.salas@duke-energy.com

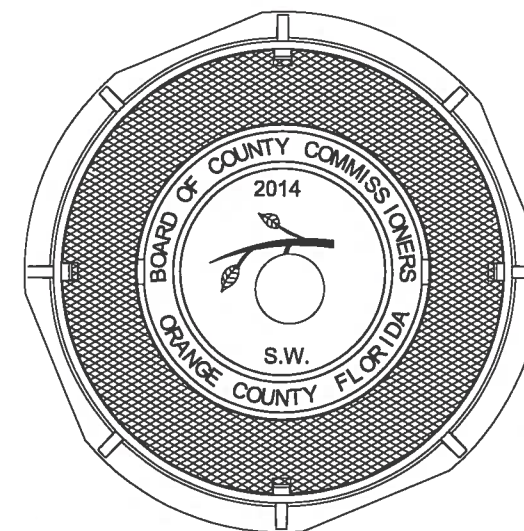
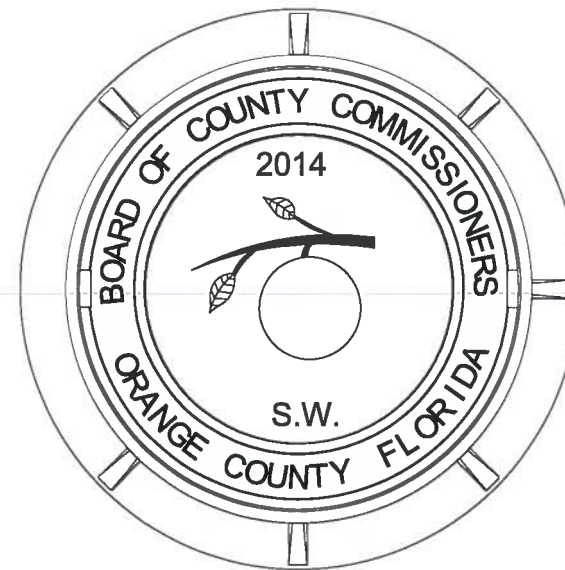
D. ORANGE COUNTY UTILITIES  
CHRISTINA CROSBY  
9150 CURRY FORD ROAD  
ORLANDO, FL 32825  
407-254-9706  
Christina.Crosby@ocfl.net



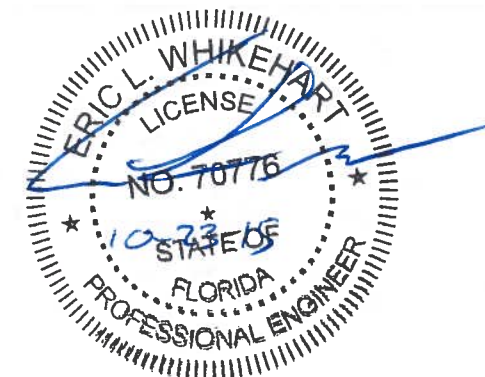
REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHITEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS		GENERAL NOTES (SHEET 2 OF 2)	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME	PROJECT NO.		
						LAKE PICKETT	CIP-2722		



**TYP. DRIVEWAY APRONS**  
N. T. S.



**STANDARD MANHOLE COVER**  
N.T.S.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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DESIGN PLANS FOR: <b>LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

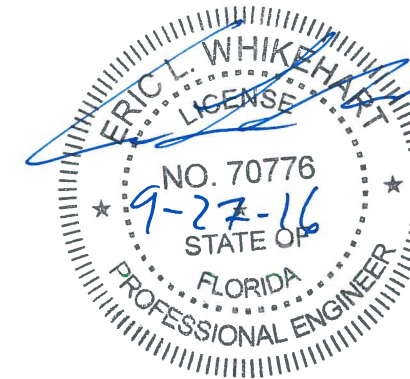
**STANDARD DRAWINGS  
& DETAILS**

SHEET  
NO.  
**4**



**SUMMARY OF PAY ITEMS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	
			P	F
SUMMARY OF ROADWAY PAY ITEMS				
101-1	MOBILIZATION	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
104-14	PREVENTION CONTROL & ABATEMENT CONTROL OF EROSION & WATER POLLUTION	LS	1	
110-1-1	CLEARING AND GRUBBING	LS	1	
120-1	EXCAVATION, EMBANKMENT, AND GRADING	LS	1	
160-4	TYPE B STABILIZATION 12" MIN. LBR 40	SY	963	
270-12	SOIL CEMENT (PRIMED) (300 PSI) (12")	SY	685	
327-70-6	MILLING EXIST. ASPH. PAVT., 1 1/2" AVG DEPTH	SY	2,962	
334-1-12	SUPERPAVE ASPHALTIC CONCRETE (SP-12.5) (TRAFFIC C) (2")	SY	736	
337-7-20	ASPHALTIC CONCRETE FRICTION COURSE (FC-12.5) (TRAFFIC C) (1.5")	SY	3,643	
425-1-551	INLETS, DT BOT, TYPE E, <10'	EA	4	
425-2-41	MANHOLE (TYPE P -7 <10")	EA	1	
425-2-71	MANHOLE (TYPE J -7 <10")	EA	1	
430-175-101	STEEL REINFORCED CONCRETE PIPE CULVERT (CLASS III) (15"SS)	LF	15	
430-175-201	STEEL REINFORCED CONCRETE PIPE CULVERT (CLASS III) (ELLIP. 14"X23" SS)	LF	78	
430-175-230	STEEL REINFORCED CONCRETE PIPE CULVERT (CLASS III) (ELLIP. 24"X38" SS)	LF	389	
430-982-633	STEEL REINFORCED MITERED END SECTION (CONC PIPE ELLIP.) 24"X38" CD	EA	1	
520-1-10	CONCRETE CURB & GUTTER (TYP E)	LF	139	
522-1	CONCRETE SIDEWALK (4" THICK INCLUDING COMPACTION)	SY	42	
522-2	CONCRETE DRIVEWAY (6" THICK INCLUDING COMPACTION)	SY	133	
527-2	DETECTABLE WARNINGS (NEW & EXISTING WALKING SURFACES)	SF	33	
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	4.8	
570-1-2	PERFORMANCE TURF, SOD, BAHIA	SY	1,399	
900-1	AS-BUILTS	LS	1	
900-2	INDEMNIFICATION	LS	1	
SUMMARY OF SIGNING AND PAVEMENT MARKINGS				
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2	
700-1-50	SINGLE POST SIGN, RELOCATE	AS	2	
706-3	RPM'S (WHITE/RED) & (YELLOW/YELLOW) TOTAL	EA	130	
*	(WHITE/RED)	EA	85	
*	(YELLOW/YELLOW)	EA	45	
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS	1	
711-11-111	THERMOPLASTIC, STANDARD, WHITE, SOLID (6")	NM	0.483	
711-11-122	THERMOPLASTIC, STANDARD, WHITE, SOLID (8")	LF	162	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID (12")	LF	125	
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID (18")	LF	109	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID (24")	LF	148	
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	1	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA	7	
711-11-180	THERMOPLASTIC, STANDARD, WHITE, YIELD LINE	LF	21	
711-11-211	THERMOPLASTIC, STANDARD, YELLOW, SOLID (6")	NM	0.468	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID (18")	LF	176	
SUMMARY OF SIGNALIZATION PAY ITEMS				
603-1	SIGNALIZATION(LAKE PICKETT ROAD AT NORTH TANNER ROAD)	LS	1	

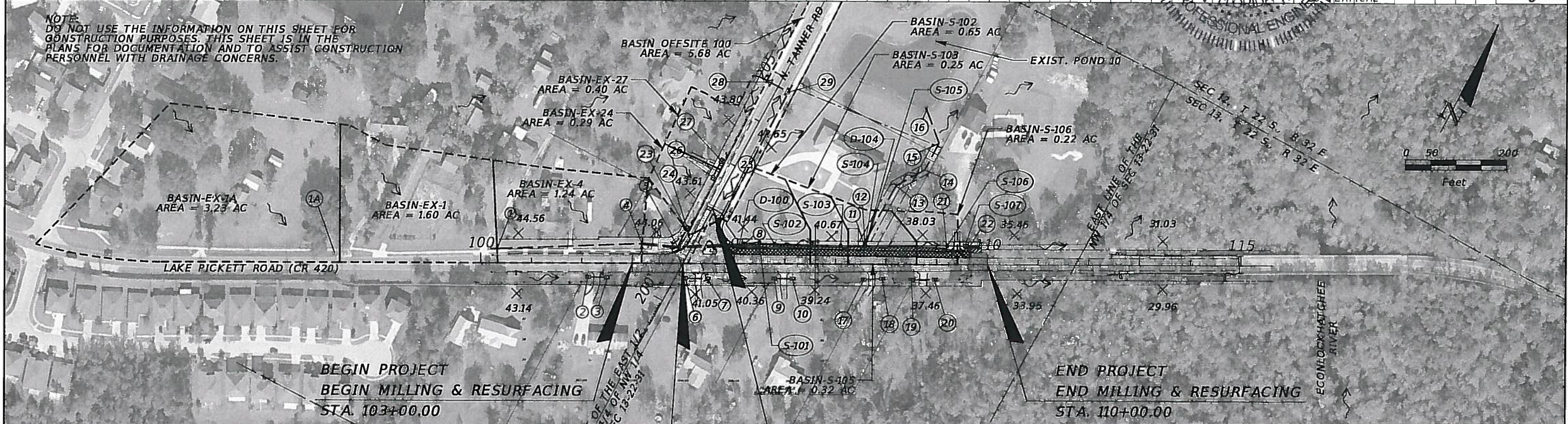
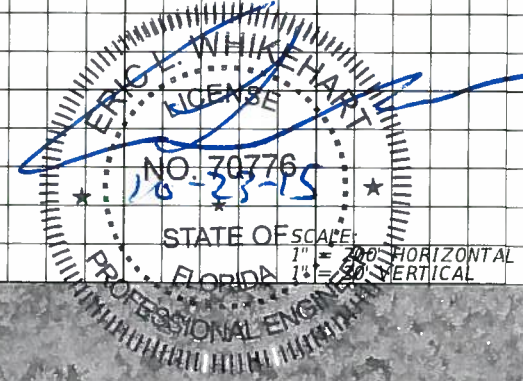
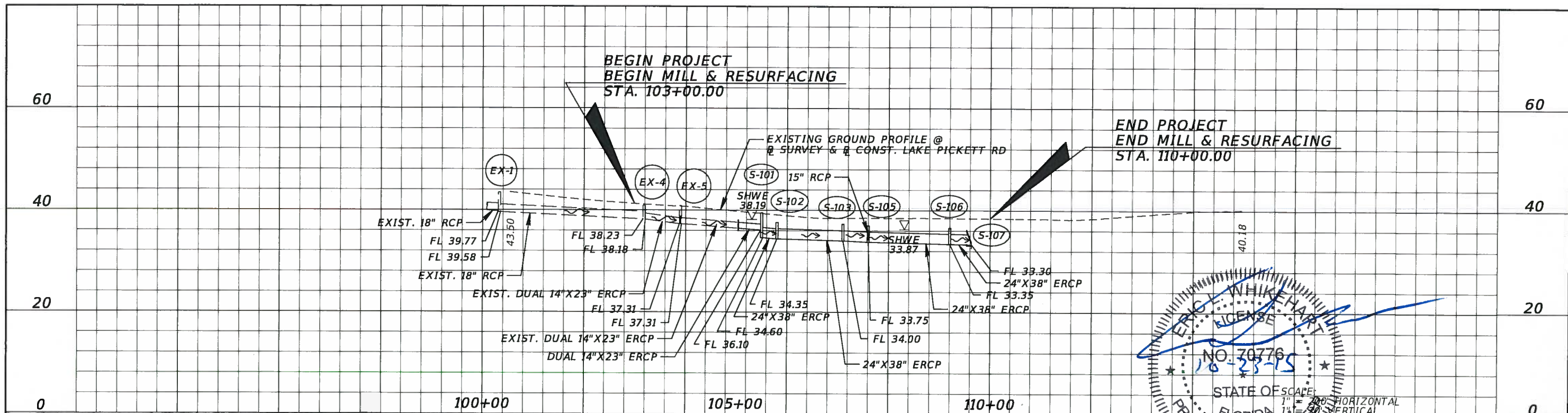


**PAY ITEM NOTES:**

- 102-1 INCLUDES COST OF REPLACEMENT OF EXISTING MAILBOXES.
- 104-14 INCLUDES COST OF ALL ITEMS FOR EROSION CONTROL. THIS INCLUDES, BUT IS NOT LIMITED TO, SEDIMENT BARRIER, INLET PROTECTION DEVICES, TURBIDITY BARRIERS, TEMPORARY GRASSING & DESILTING OF EXISTING DRAINAGE PIPES AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 110-1-1 INCLUDES, BUT IS NOT LIMITED TO, THE COST OF REMOVAL AND DISPOSAL OF CURB, CURB & GUTTER, SIDEWALK, DRIVEWAYS, DRAINAGE STRUCTURES, EXISTING FENCE AND FULL DEPTH ASPHALT AND BASE COURSE. PAY ITEM ALSO ACCOUNTS FOR GROUND SURFACE STRIPPING TO A MINIMUM DEPTH OF ONE FOOT WITHIN ALL PAVEMENT WIDENING AND SOIL GRADING LIMITS.
- 430-175-101 IN ADDITION TO THE COST OF 15" REINFORCED CONCRETE PIPE (RCP), PAY ITEM INCLUDES COST FOR CONSTRUCTION OF CONCRETE COLLARS FOR THE 15" RCP CONNECTING TO STRUCTURE S-103.
- 430-175-201 IN ADDITION TO THE COST OF 14"X23" ELLIPTICAL REINFORCED CONCRETE PIPE (ERCP), PAY ITEM INCLUDES COST FOR CONSTRUCTION OF CONCRETE COLLARS FOR THE DUAL 14"X23" ERCP CONNECTING TO STRUCTURE S-101.

REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHIKEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS		SUMMARY OF PAY ITEMS & PAY ITEM NOTES	SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME	PROJECT NO.		
						LAKE PICKETT	CIP-2722		





**LEGEND**

	PROPOSED SURFACE WATER IMPACTS IN UPLAND CUT DITCH = 0.06 ACRES
	PROPOSED WIDENING LIMITS
	PROPOSED MILL/RESURFACE LIMITS

REVISIONS	
DATE	DESCRIPTION

**ORANGE COUNTY GOVERNMENT**  
 TLP ENGINEERING CONSULTANTS, INC.  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHITEHART, P.E. 70776  
 CERT. OF AUTH. #27205

DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**DRAINAGE MAP**

SHEET NO.  
6



1A INLET  
GRATE EL. 47.39  
NE. INV. 40.72 (18" RCP)

1 MANHOLE  
TOP EL. 43.91  
SW. INV. 39.77 (18" RCP)  
NE. INV. 39.58 (18" RCP)  
BOTTOM EL. 39.33

2 MES  
SW. INV. 39.86 (15" RCP)

3 MES  
NE. INV. 39.59 (15" RCP)

4 MANHOLE  
TOP EL. 42.25  
NE. INV. 38.18 (14"x23" ERCP)  
NE. INV. 38.19 (14"x23" ERCP)  
SW. INV. 38.23 (18" RCP)  
BOTTOM EL. 38.20

5 MANHOLE  
TOP EL. 40.84  
NE. INV. 37.31 (14"x23" ERCP)  
NE. INV. 37.35 (14"x23" ERCP)  
SW. INV. 37.20 (14"x23" ERCP)  
SW. INV. 37.24 (14"x23" ERCP)  
BOTTOM EL. 37.24

6 MES  
SW. INV. 38.08 (15" RCP)

7 MES  
NE. INV. 37.81 (15" RCP)

8 MES  
NE. INV. 36.27 (14"x23" ERCP)  
NE. INV. 36.20 (14"x23" ERCP)

9 MES  
SW. INV. 36.46 (15" RCP)

10 MES  
NE. INV. 36.42 (15" RCP)

11 MES  
SE. INV. 35.30 (15" RCP)

12 MANHOLE  
TOP EL. 39.04  
N. INV. 35.37 (15" RCP)  
S. INV. 35.51 (15" RCP)

13 MANHOLE  
TOP EL. 40.31  
NE. INV. 35.68 (15" RCP)  
S. INV. 35.68 (15" RCP)  
BOTTOM EL. 35.61

14 MANHOLE  
TOP EL. 39.26  
N. INV. 35.73 (15" RCP)  
SW. INV. 35.72 (15" RCP)  
BOTTOM EL. 35.72

15 MANHOLE  
TOP EL. 38.83  
NW. INV. 35.80 (15" RCP)  
S. INV. 35.80 (15" RCP)  
BOTTOM EL. 35.80

16 INLET  
GRATE EL. 38.90  
SE. INV. 36.07 (15" RCP)  
BOTTOM EL. 33.86

17 MES  
SW. INV. 35.80 (15" RCP)

18 MES  
NE. INV. 35.64 (15" RCP)

19 MES  
SW. INV. 35.49 (15" RCP)

20 MES  
NE. INV. 35.16 (15" RCP)

21 MES  
SW. INV. 34.40 (24" RCP)

22 MES  
NE. INV. 34.31 (24" RCP)

23 INLET  
TOP EL. 40.98  
NE. INV. 36.74  
BOTTOM EL. 36.74

24 MES  
S. INV. 39.84 (18" RCP)

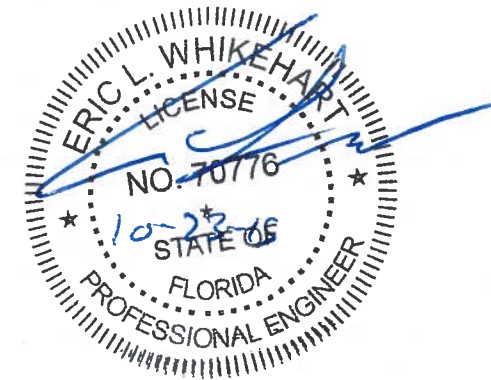
25 INLET  
TOP EL. 42.37  
N. INV. 36.19 (18" RCP)  
SW. INV. 36.69 (15" RCP)  
BOTTOM EL. 36.45

26 MES  
S. INV. 41.21 (15" RCP)

27 MES  
N. INV. 41.50 (15" RCP)

28 INLET  
TOP EL. 43.23  
E. INV. 38.83 (15" RCP)  
BOTTOM EL. 38.84

29 INLET  
TOP EL. 43.15  
W. INV. 38.60 (15" RCP)  
S. INV. 35.83 (18" RCP)  
N. INV. 35.73 (18" RCP)  
BOTTOM EL. 35.80



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

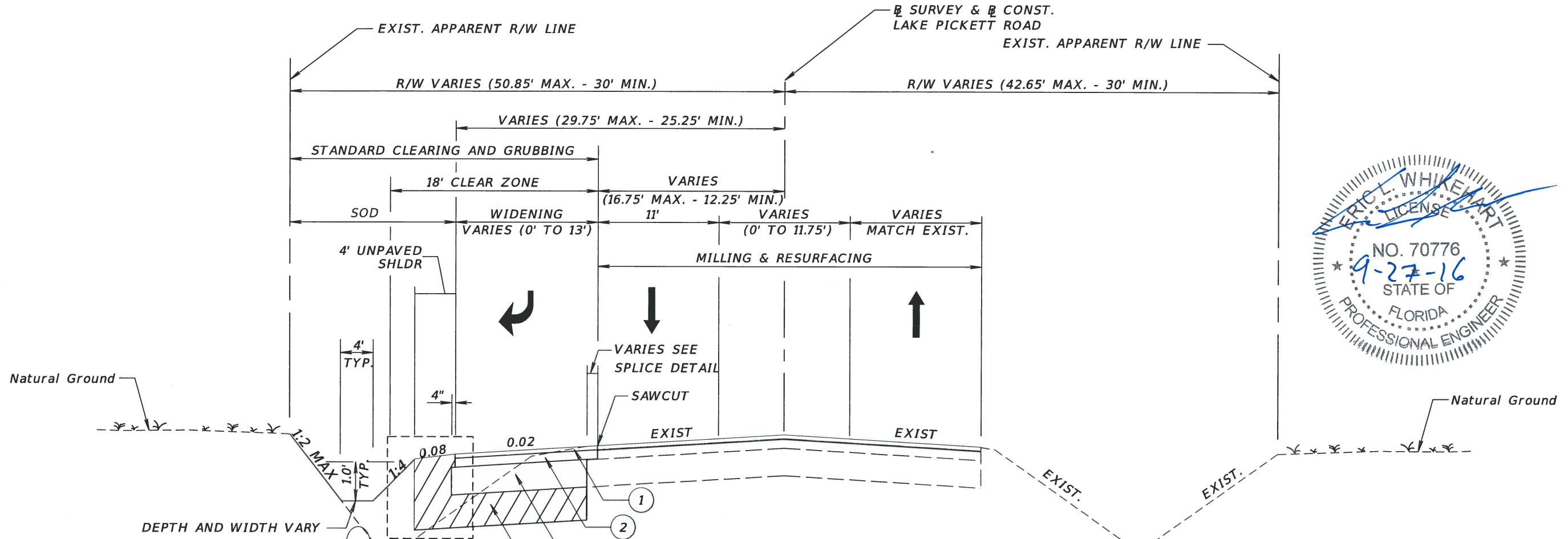
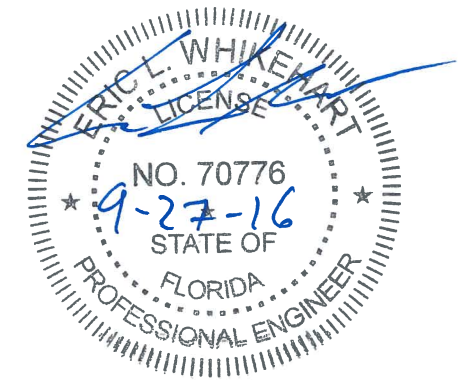


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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

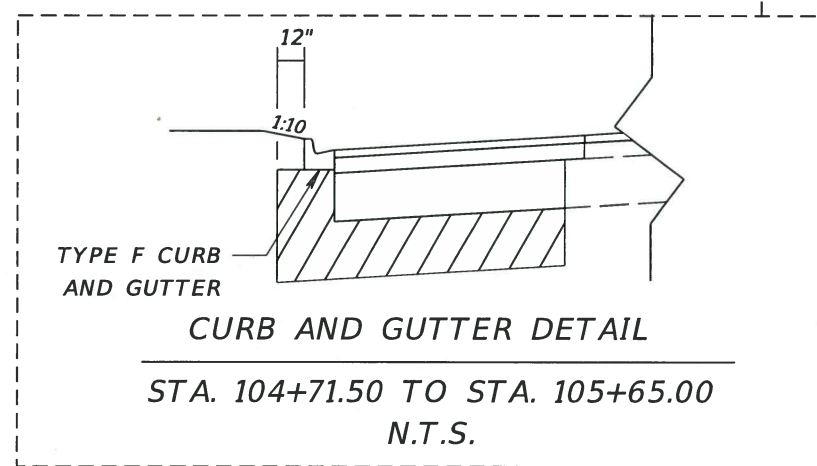
**SUMMARY OF EXISTING  
DRAINAGE STRUCTURES**

SHEET NO.  
7



DEPTH AND WIDTH VARY  
SEE CROSS SECTIONS

PROPOSED  
24" X 38" ERCP



**CURB AND GUTTER DETAIL**

STA. 104+71.50 TO STA. 105+65.00  
N.T.S.

**TRAFFIC DATA**

CURRENT YEAR = 2012 AADT = 9,128  
 ESTIMATED OPENING YEAR = 2016 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2036 AADT = 13,500  
 K = 13.7% D = 86.7% T = 2.1% (24 HOUR)  
 DESIGN HOUR T = 1.1 %  
 DESIGN SPEED = 45 MPH

**TYPICAL SECTION  
LAKE PICKETT ROAD  
STA. 103+00.00 TO STA. 110+00.00  
DESIGN SPEED = 45 MPH  
N.T.S.**

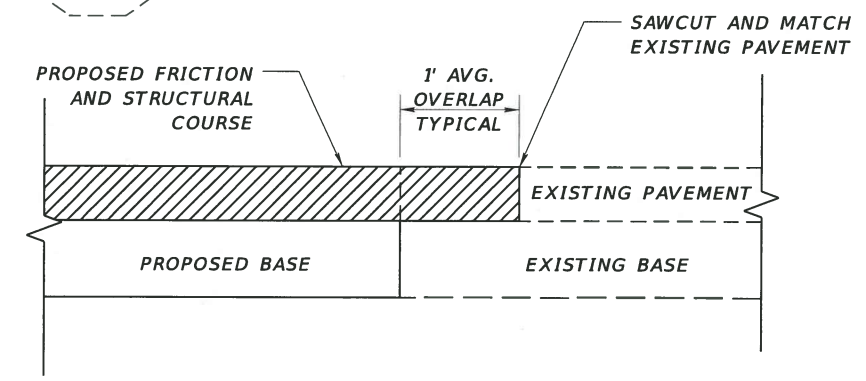
**WIDENING**

STA. 104+71.50 TO STA. 109+65.00

- ① FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")
- ② TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
- ③ 12" SOIL CEMENT PRIMED (300 PSI)
- ④ 12" TYPE "B" STABILIZATION (MIN. LBR 40)

**NOTE:**

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM WIDTH BASE WIDENING STRIP AT NO ADDITIONAL COST TO THE COUNTY.



**TYPICAL PAVEMENT SPLICE DETAIL**

ALL WIDENING LOCATIONS  
N.T.S.

**MILLING**

STA. 103+00.00 TO STA. 110+00.00  
MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

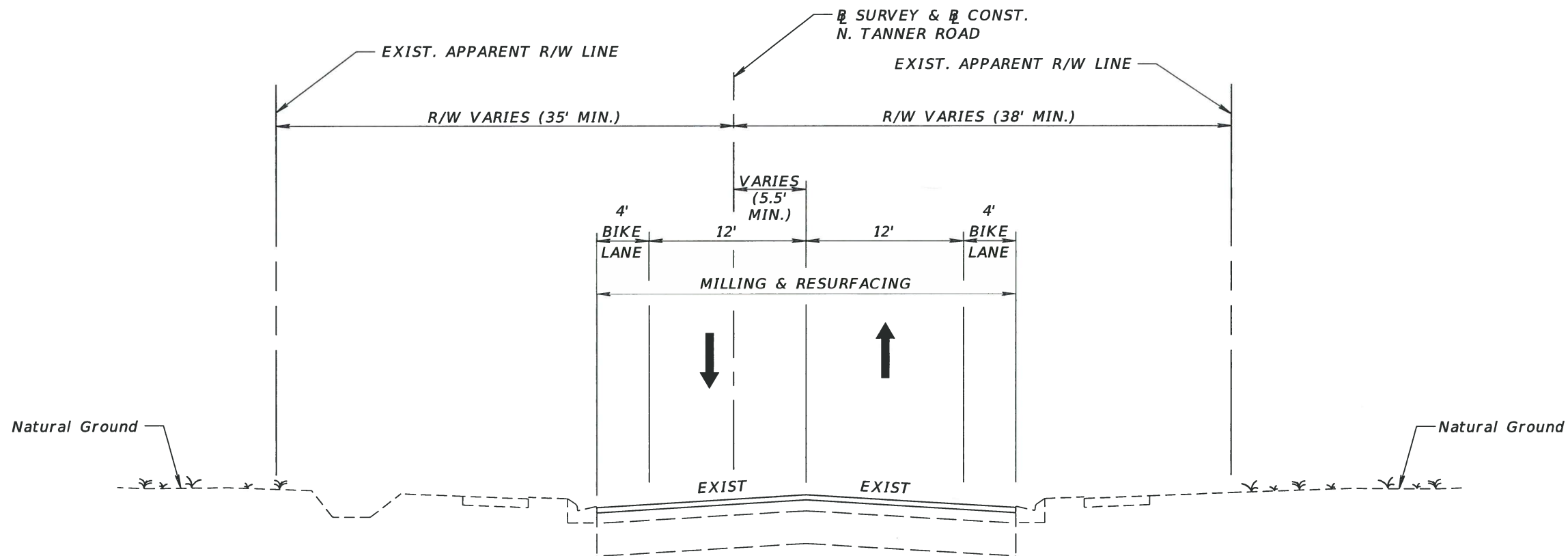
**RESURFACING**

STA. 103+00.00 TO STA. 110+00.00  
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")

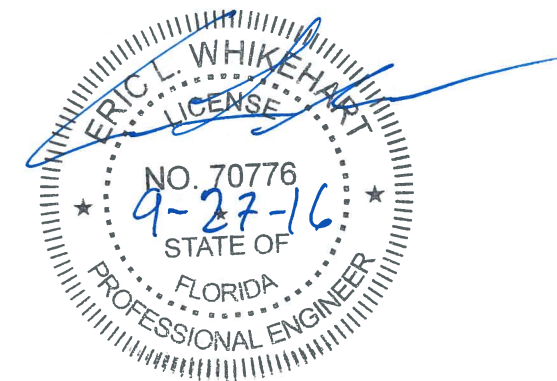
REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	PROJECT NAME	PROJECT NO.	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
				TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHITEHART, P.E. 70776 CERT. OF AUTH. #27205	LAKE PICKETT	CIP-2722	8	

**TYPICAL SECTION  
LAKE PICKETT RD**





**TYPICAL SECTION**  
**N. TANNER ROAD**  
**STA. 201+03.00 TO STA. 202+06.00**  
**DESIGN SPEED = 45 MPH**  
**N.T.S.**



**TRAFFIC DATA**

CURRENT YEAR = 2012 AADT = 10,528  
 ESTIMATED OPENING YEAR = 2016 AADT = 11,300  
 ESTIMATED DESIGN YEAR = 2036 AADT = 15,500  
 K = 10.4% D = 74.7% T = 2.1% (24 HOUR)  
 DESIGN HOUR T = 1.1%  
 DESIGN SPEED = 45 MPH

**MILLING**

MILL EXIST. ASPHALT PAVEMENT (1 1/2" DEPTH)

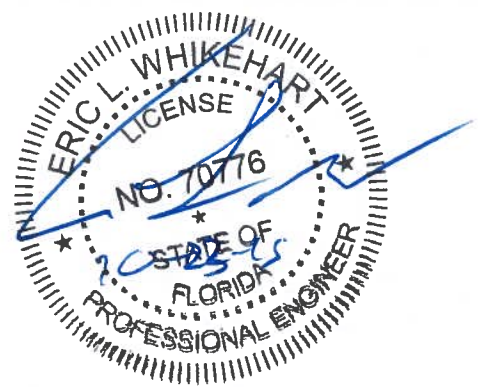
**RESURFACING**

FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")

REVISIONS		ORANGE COUNTY GOVERNMENT FLORIDA		DESIGN PLANS FOR:		TYPICAL SECTION NORTH TANNER ROAD	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PROJECT NAME	PROJECT NO.		
				LAKE PICKETT	CIP-2722		

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			
102-1	MAINTENANCE OF TRAFFIC	1			
104-14	PREVENTION CONTROL & ABATEMENT CONTROL OF EROSION & WATER POLLUTION	1			
110-1-1	CLEARING & GRUBBING	1			
120-1	EXCVATION, EMBANKMENT, AND GRADING	1			
603-1	SIGNALIZATION - INTERSECTION	1			
900-1	AS-BUILTS	1			
900-2	INDEMNIFICATION	1			

SUMMARY OF PERFORMANCE TURF							
LOCATION	SIDE	LENGTH	WIDTH	PERFORMANCE TURF BAHIA (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
				0570	1 2		
STA. TO STA.				SY			
				P	F		
104+80.66 TO 109+33.02	LT	452.4	19.0	956.5		AVERAGE WIDTH	
109+45.02 TO 110+00.00	LT	55.0	23.5	113.6		AVERAGE WIDTH	
109+55.00 TO 109+55.00	LT			30.0		STRUCTURE S-107	
103+00.00 TO 104+23.16	RT	123.2	4.0	54.7			
104+37.09 TO 105+90.38	RT	153.3	4.0	68.1			
106+04.78 TO 110+00.00	RT	395.2	4.0	175.7			
SUB-TOTAL:				1399			
TOTAL:				1399			



SUMMARY OF PERMANENT DRIVEWAYS						
LOCATION	SIDE	AREA ID	MATERIAL		DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)	0522 2		
STA. @ C OF DRIVEWAY			P	F		
107+35.00	LT		100.6			
109+39.00	LT		32.4			
SUB-TOTAL:			133			
TOTAL:			133			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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DESIGN PLANS FOR:  
LAKE PICKETT RD AT N. TANNER RD  
INTERSECTION IMPROVEMENTS

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**SUMMARY OF QUANTITIES**  
**(SHEET 1 OF 3)**

SHEET NO.  
10



**SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS**

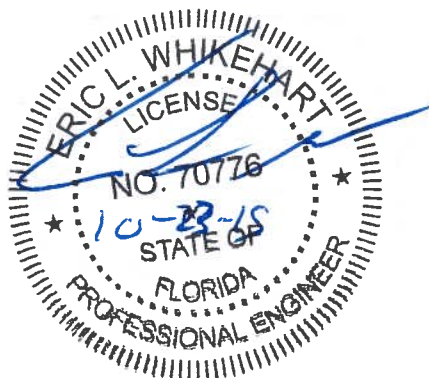
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
520-1-10	CONCRETE CURB & GUTTER, TYPE F	104+71.61 TO 105+65.01		LT	LF	139.0					139			

**SUMMARY OF SIDEWALK & DETECTABLE WARNINGS**

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0527 2			
					SY		SF			
					P	F	P	F		
104+00.00 TO 104+00.00	LT							7.7		
104+40.00 TO 104+40.00	LT							8.3		
104+60.00 TO 104+60.00	LT							8.1		
104+71.61 TO 104+69.28	LT		62.6	6.0	41.7			9.1		
SUB-TOTAL:								42		33
TOTAL:								42		33

**SUMMARY OF DITCH PAVEMENT**

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	RIPRAP (RUBBLE)			DESIGN NOTES	CONSTRUCTION REMARKS
					0530 3 4				
					TN				
109+62.00 TO 109+82.00	LT		20.0	3.0			4.8	1.5 FT THICK	
SUB-TOTAL							4.8		
PLAN TOTAL:							4.8		
FINAL TOTAL:							4.8		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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DESIGN PLANS FOR:  
**LAKE PICKETT RD AT N. TANNER RD  
INTERSECTION IMPROVEMENTS**

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

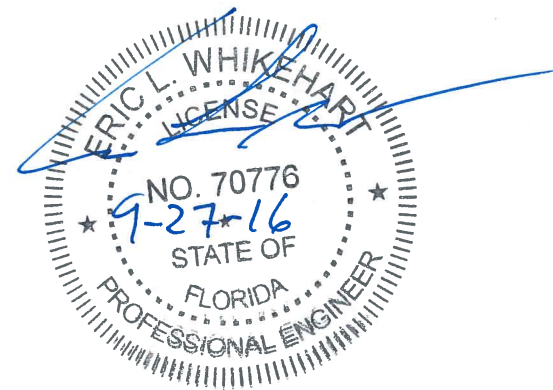
**SUMMARY OF QUANTITIES  
(SHEET 2 OF 3)**

SHEET NO.

11

**SUMMARY OF PAVEMENT**

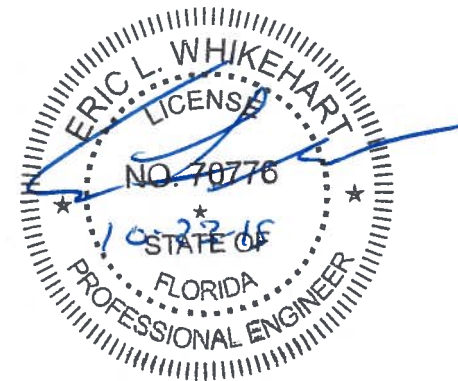
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION					P	F	P	F		
160-4	TYPE B STABILIZATION, 12" (MIN. LBR 40)	104+68.68 TO 105+11.11	CURB RETURN SHAPE	LT	100.0	9.7	SY	107.8				AVERAGE WIDTH	
	TYPE B STABILIZATION, 12" (MIN. LBR 40)	105+11.11 TO 105+65.00	CURB AND GUTTER	LT	53.9	16.0	SY	95.8					
	TYPE B STABILIZATION, 12" (MIN. LBR 40)	105+65.00 TO 109+67.00	UNPAVED SHOULDER	LT	402.0	17.0	SY	759.2					
										963			
270-12	SOIL CEMENT (300 PSI), 12"	104+68.68 TO 105+11.11	CURB RETURN SHAPE	LT	100.0	6.3	SY	69.6				AVERAGE WIDTH	
	SOIL CEMENT (300 PSI), 12"	105+11.11 TO 105+65.00	CURB AND GUTTER	LT	53.9	12.0	SY	71.9					
	SOIL CEMENT (300 PSI), 12"	105+65.00 TO 109+65.00	UNPAVED SHOULDER	LT	400.0	12.2	SY	543.9				AVERAGE WIDTH	
										685			
327-70-6	MILLING EXIST. ASPH. PAVT., 1 1/2" AVG DEPTH	103+00.00 TO 105+80.00	INTERSECTION SHAPE	LT/RT	280.0	34.7	SY	1080.1				AVERAGE WIDTH	
	MILLING EXIST. ASPH. PAVT., 1 1/2" AVG DEPTH	105+80.00 TO 110+00.00	PAVEMENT TAPER	LT/RT	420.0	29.0	SY	1353.6				AVERAGE WIDTH	
	MILLING EXIST. ASPH. PAVT., 1 1/2" AVG DEPTH	201+03.00 TO 202+06.00	TANNER INTERSECTION	LT/RT	103.0	46.1	SY	528.0				AVERAGE WIDTH	
										2962			
334-1-12	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C) (SP-12.5) (2")	104+67.75 TO 105+11.11	CURB RETURN SHAPE	LT	100.0	7.3	SY	80.6				AVERAGE WIDTH	
	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C) (SP-12.5) (2")	105+11.11 TO 109+65.00	UNIFORM LANE PAVEMENT	LT	453.9	13.0	SY	655.6					
										736			
337-7-20	ASPHALTIC CONCRETE FRICTION COURSE (FC-12.5) (1.5")	103+00.00 TO 105+11.11	INTERSECTION SHAPE	LT/RT	211.1	58.4	SY	1370.7				AVERAGE WIDTH	
	ASPHALTIC CONCRETE FRICTION COURSE (FC-12.5) (1.5")	105+11.11 TO 105+65.00	UNIFORM LANE PAVEMENT	LT/RT	53.9	47.3	SY	283.5				AVERAGE WIDTH	
	ASPHALTIC CONCRETE FRICTION COURSE (FC-12.5) (1.5")	105+65.00 TO 109+65.00	PAVEMENT TAPER	LT/RT	400.0	42.6	SY	1893.0				AVERAGE WIDTH	
	ASPHALTIC CONCRETE FRICTION COURSE (FC-12.5) (1.5")	109+65.00 TO 110+00.00	NO WIDENING	LT/RT	35.0	24.6	SY	95.5				AVERAGE WIDTH	
										3643			



DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION		 TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHITEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	<b>SUMMARY OF QUANTITIES</b> (SHEET 3 OF 3)	SHEET NO.
								PROJECT NAME LAKE PICKETT	PROJECT NO. CIP-2722		12		



QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN RCP/ERCP			MANHOLES		DITCH BOTTOM INLETS	CROSS DRAIN MITERED END SECTION	SODDING	REMARKS
						ROUND	ELLIPSE		P-7	J-7	E			
						15"	14" x 23"	24" x 38"	<10'	<10'	<10'			
P	D-100	105+15.45	LT.	Pipe	2		78							Connects to Exist. Dual 14"x23" ERCP
F														
P	D-104	107+64.77	LT.	Pipe	1	8								Connects to Exist. 15" RCP
F														
P	S-101	105+50.00	LT.	Manhole, Pipe	1			27		1				4'x7' J-BOTTOM
F														
P	S-102	105+80.00	LT.	Inlet, Pipe	1			127			1			
F														
P	S-103	107+10.00	LT.	Inlet, Pipe	1			47			1			
F														
P	S-104	107+60.00	LT.	Manhole, Pipe	1	7			1					
F														
P	S-105	107+60.00	LT.	Inlet, Pipe	1			157			1			
F														
P	S-106	109+20.00	LT.	Inlet, Pipe	1			31			1			
F														
P	S-107	109+55.00	LT.	MES, Pipe	1							1	30	
F														
Sheet Summary					P Total	15	78	389	1	1	4	1	30	
					F Total	0	0	0	0	0	0	0	0	0
Final Summary					P Total	15	78	389	1	1	4	1	30	
					F Total	0	0	0	0	0	0	0	0	0



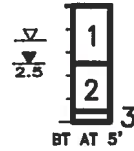
REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL 32817 PH. 407-901-5060 ERIC L. WHIKEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR:		SUMMARY OF DRAINAGE STRUCTURES	SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION			LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS			
						PROJECT NAME	PROJECT NO.		
						LAKE PICKETT	CIP-2722		



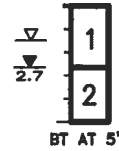
BORING:  
STATION:  
OFFSET:



HA-1  
105+10  
30' LEFT



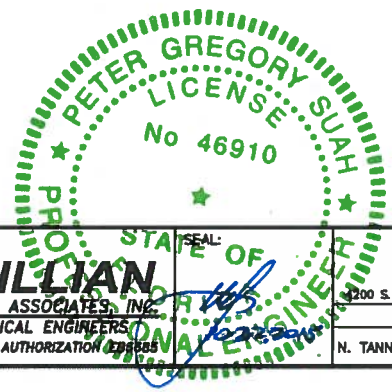
HA-2  
108+10  
30' LEFT



BORING:  
STATION:  
OFFSET:



STRATUM NO.	AASHTO SOIL CLASSIFICATION SYMBOL	DESCRIPTION
1	A-3	DARK GRAY TO DARK GRAYISH BROWN SAND, OCCASIONAL ROCK FRAGMENTS AND SHELL (POSSIBLE FILL)
2	A-3	VERY DARK GRAY AND VERY DARK BROWN SAND
3	A-2-4	BROWN SILTY SAND



REVISIONS					
Date	By	Description	Date	By	Description

ENGINEER OF RECORD:  
PETER G. SUAH, P.E.  
FLORIDA REG. NO. 46910

DESIGNED BY:  
ANTILJAN ENGINEERING ASSOCIATES  
3331 BARTLETT BOULEVARD  
ORLANDO, FLORIDA 32811  
PHONE: (407) 422-1441

LOGO:

ANTILJAN ENGINEERING ASSOCIATES, INC.  
GEOTECHNICAL ENGINEERS  
CERTIFICATE OF AUTHORIZATION

ORANGE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION

2200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 838-7950

PROJECT NAME: N. TANNER RD. INT. IMPROVEMENTS

PROJECT NUMBER: XX

SHEET TITLE: REPORT OF ROADWAY BORINGS

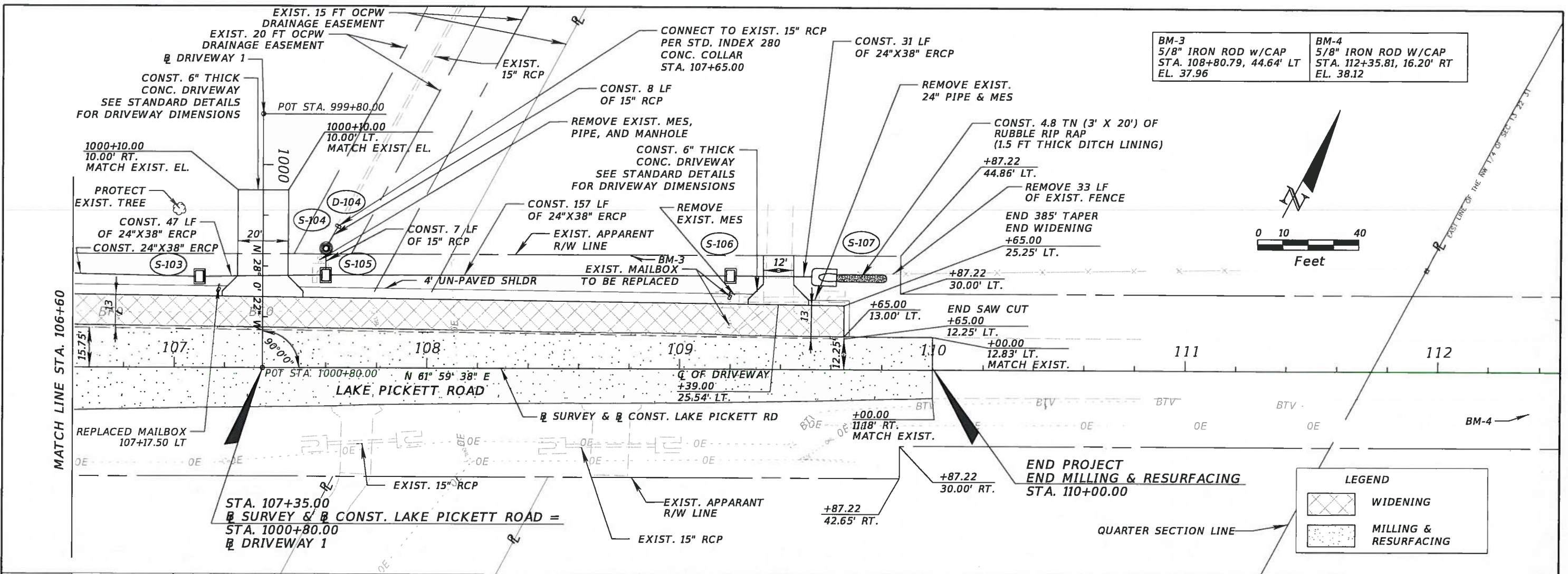
PROJECT NAME: NORTH TANNER ROAD INTERSECTION IMPROVEMENTS

Drawing No. 15

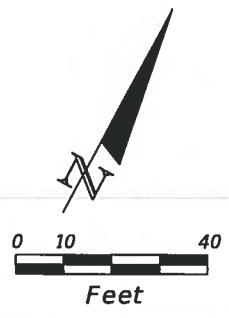




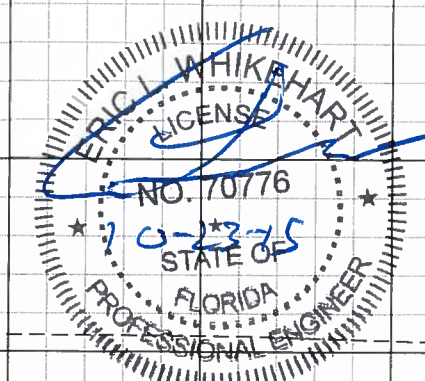
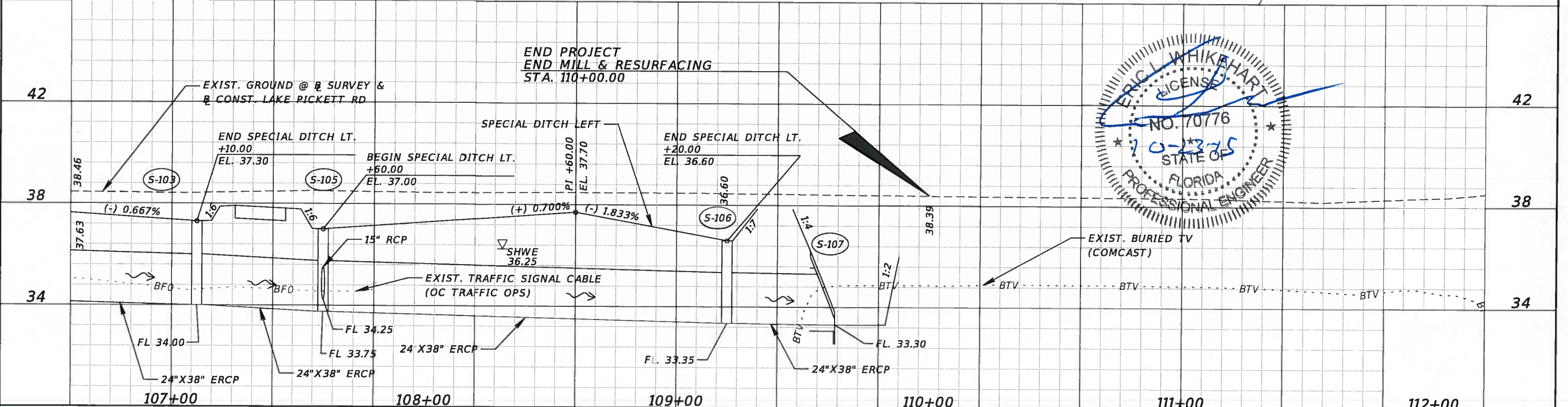




BM-3 5/8\"/>	BM-4 5/8\"/>
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LEGEND	
	WIDENING
	MILLING & RESURFACING



REVISIONS	
DATE	DESCRIPTION

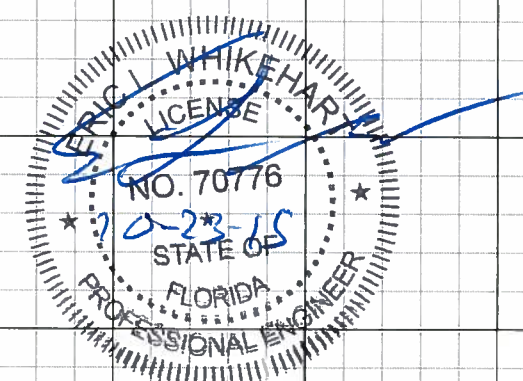
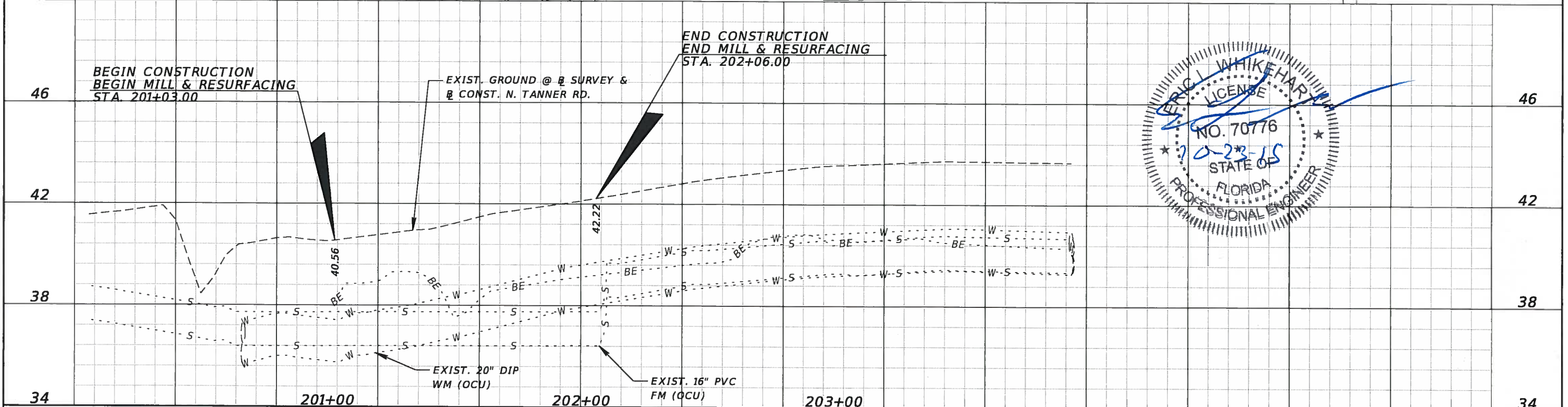
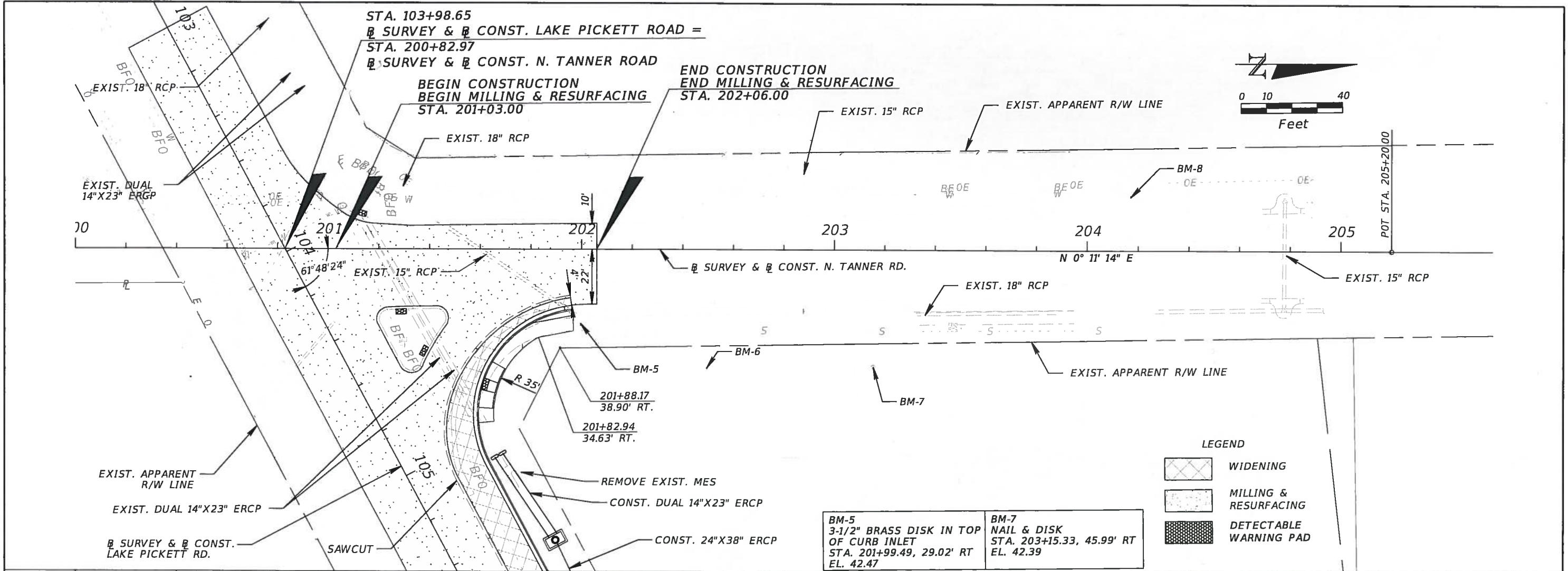
**ORANGE COUNTY GOVERNMENT**  
 TLP ENGINEERING CONSULTANTS, INC.  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHITEHART, P.E. 70776  
 CERT. OF AUTH. #27205

DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**PLAN & PROFILE  
LAKE PICKETT ROAD**

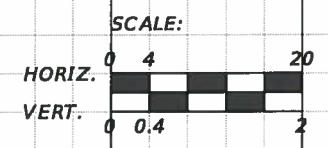
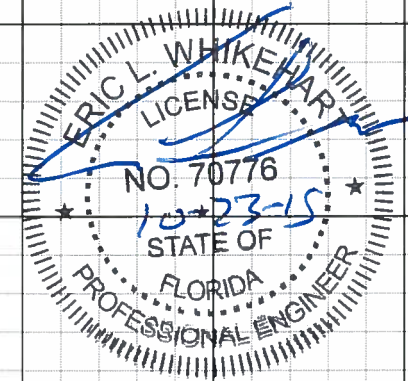
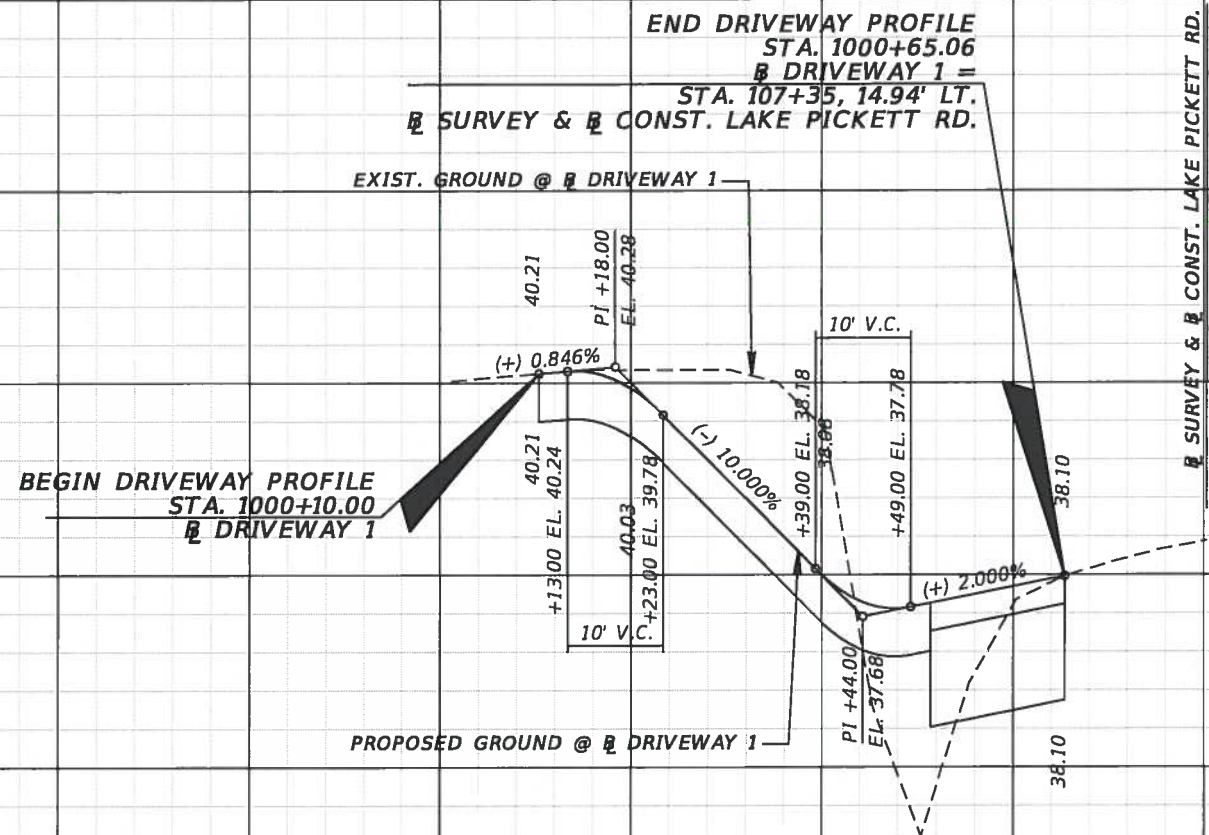
SHEET NO.  
17





DATE	DESCRIPTION	DATE	DESCRIPTION

	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHITEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR: <b>LAKE PICKETT RD AT N. TANNER RD          INTERSECTION IMPROVEMENTS</b> PROJECT NAME PROJECT NO.	<b>LAKE PICKETT</b> <b>CIP-2722</b>	<b>PLAN &amp; PROFILE          N. TANNER ROAD</b>	SHEET NO. <b>18</b>
--	---	---	--	---	------------------------



+80      1000+00      +20      +40      +60      +80

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TLP ENGINEERING CONSULTANTS, INC.  
 11486 CORPORATE BLVD., SUITE 151  
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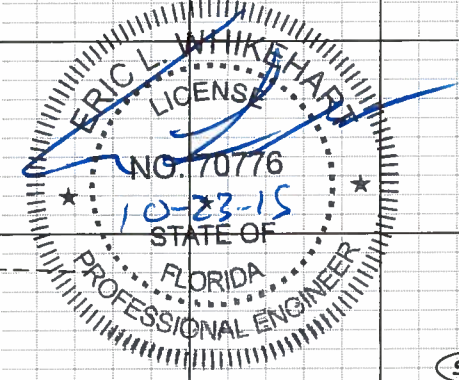
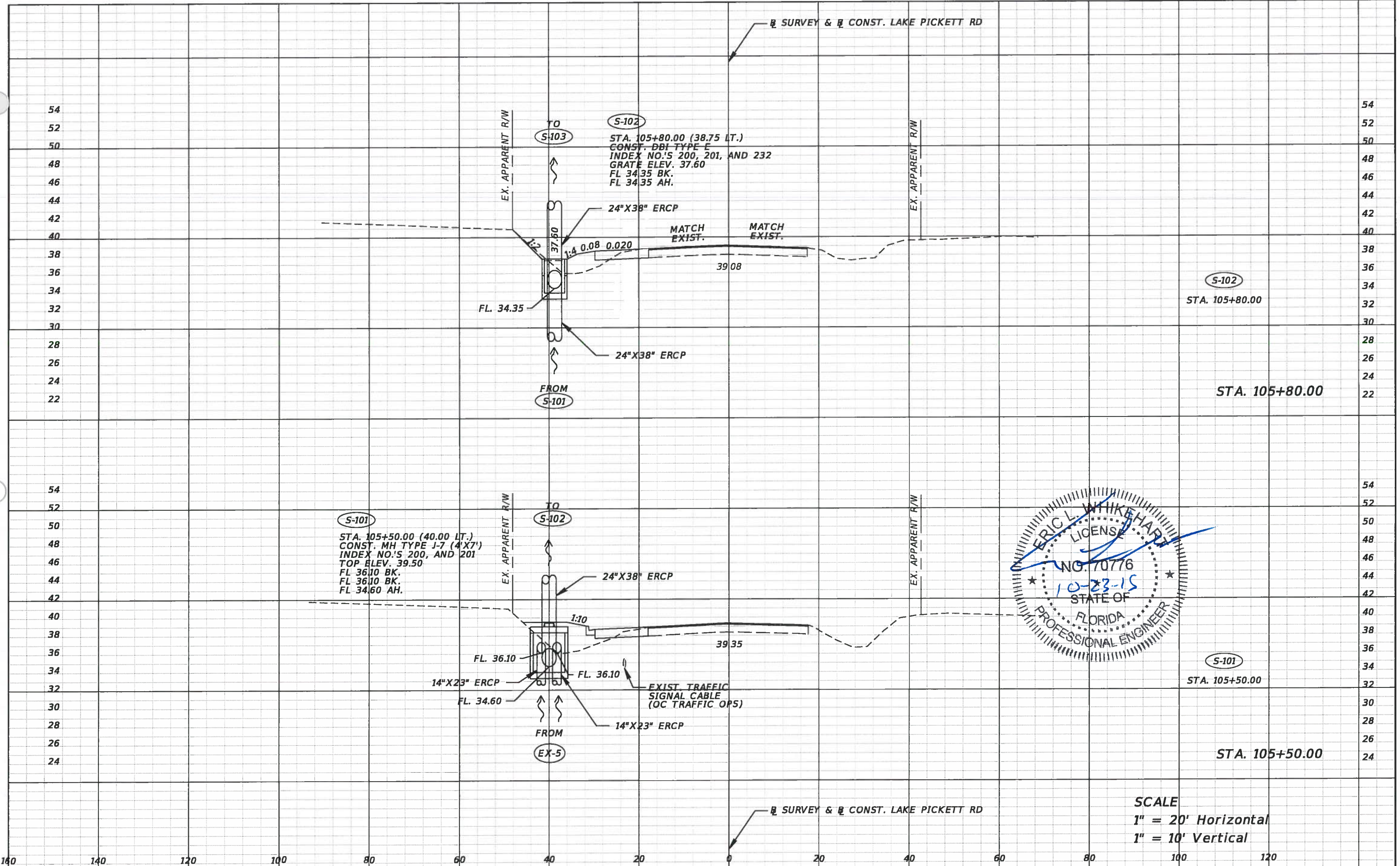
DESIGN PLANS FOR:  
**LAKE PICKETT RD AT N. TANNER RD  
 INTERSECTION IMPROVEMENTS**

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**DRIVEWAY PROFILE SHEET**

SHEET NO.  
19





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



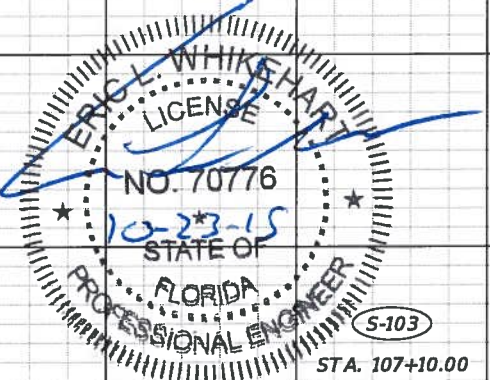
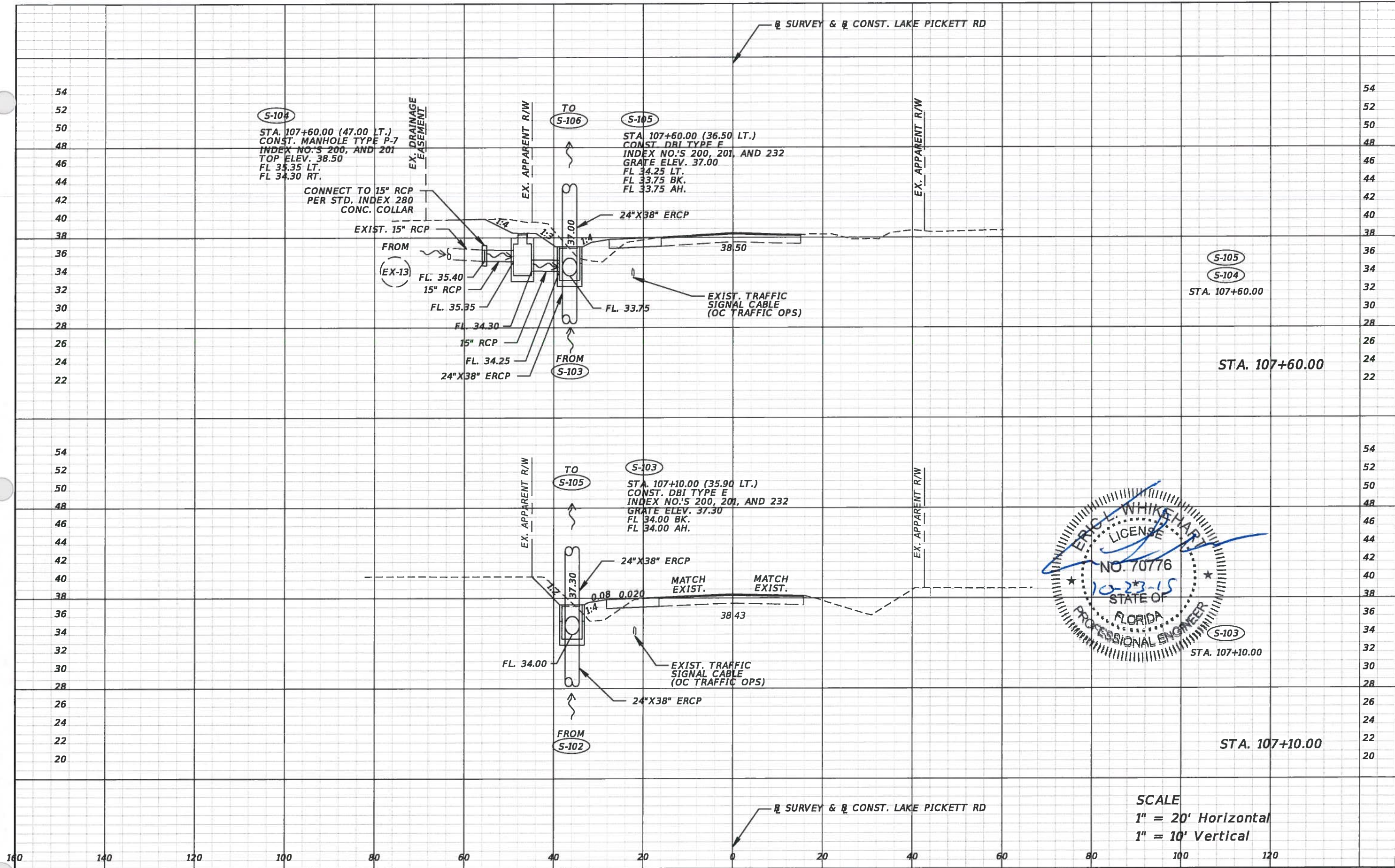
TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
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 ERIC L. WHITEHART, P.E. 70776  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**DRAINAGE STRUCTURE  
 CROSS SECTION SHEETS**

SHEET NO.  
 20





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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 11486 CORPORATE BLVD., SUITE 151  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

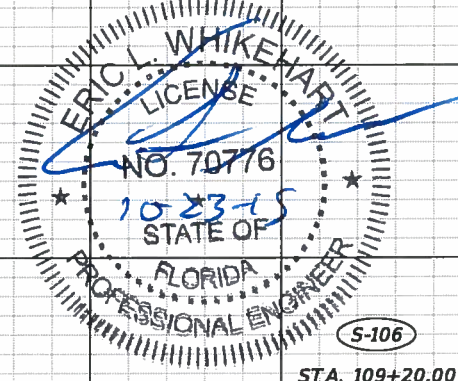
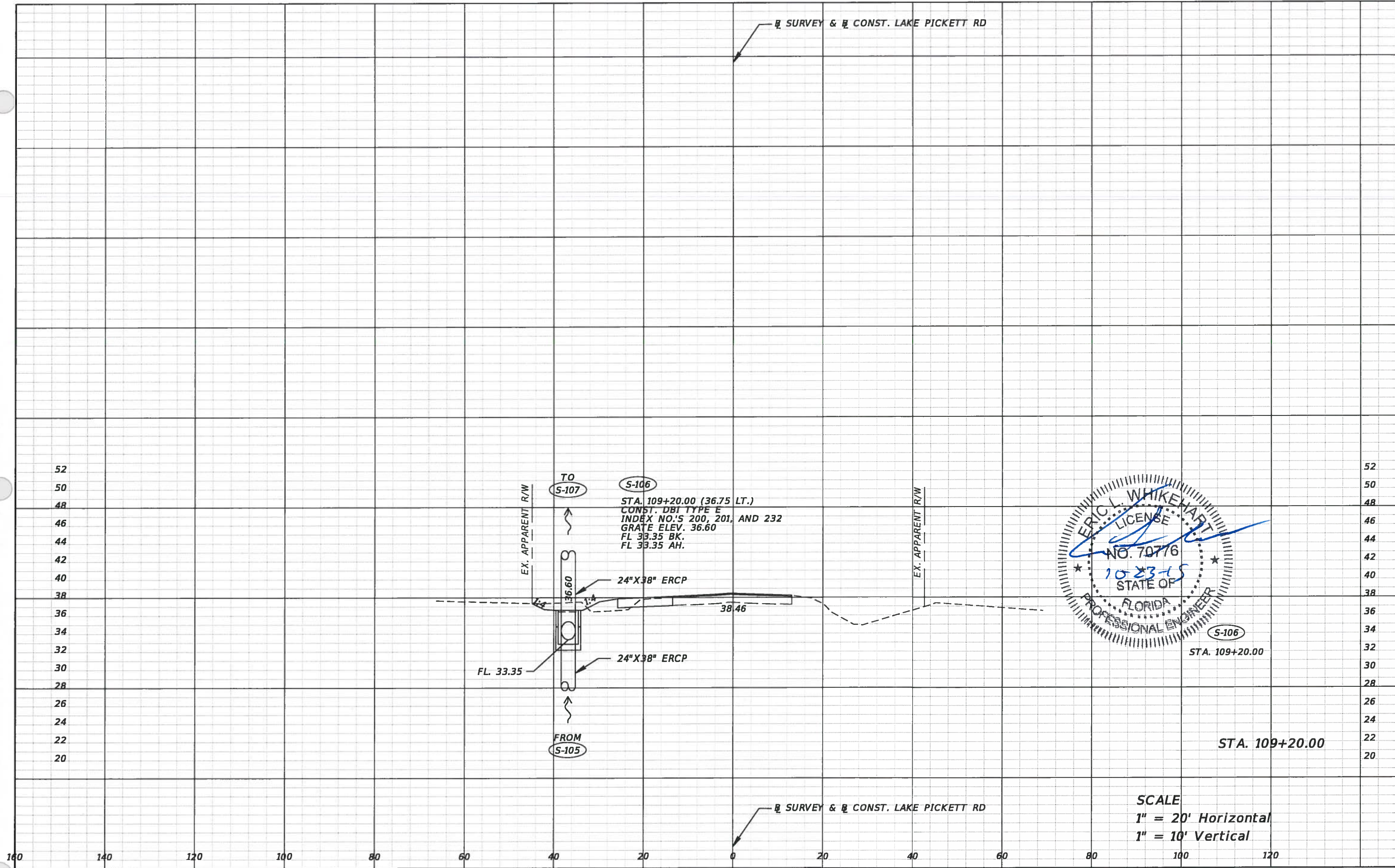
**DRAINAGE STRUCTURE  
 CROSS SECTION SHEETS**

SHEET NO.  
 21



52  
50  
48  
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20



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TLP ENGINEERING CONSULTANTS, INC  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

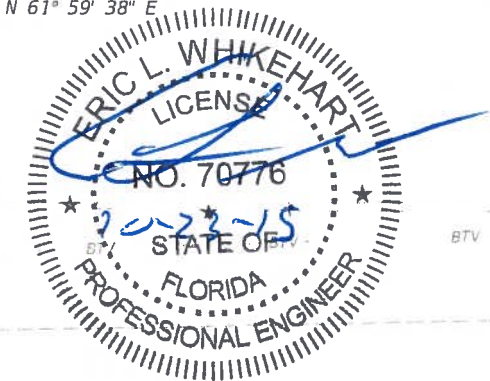
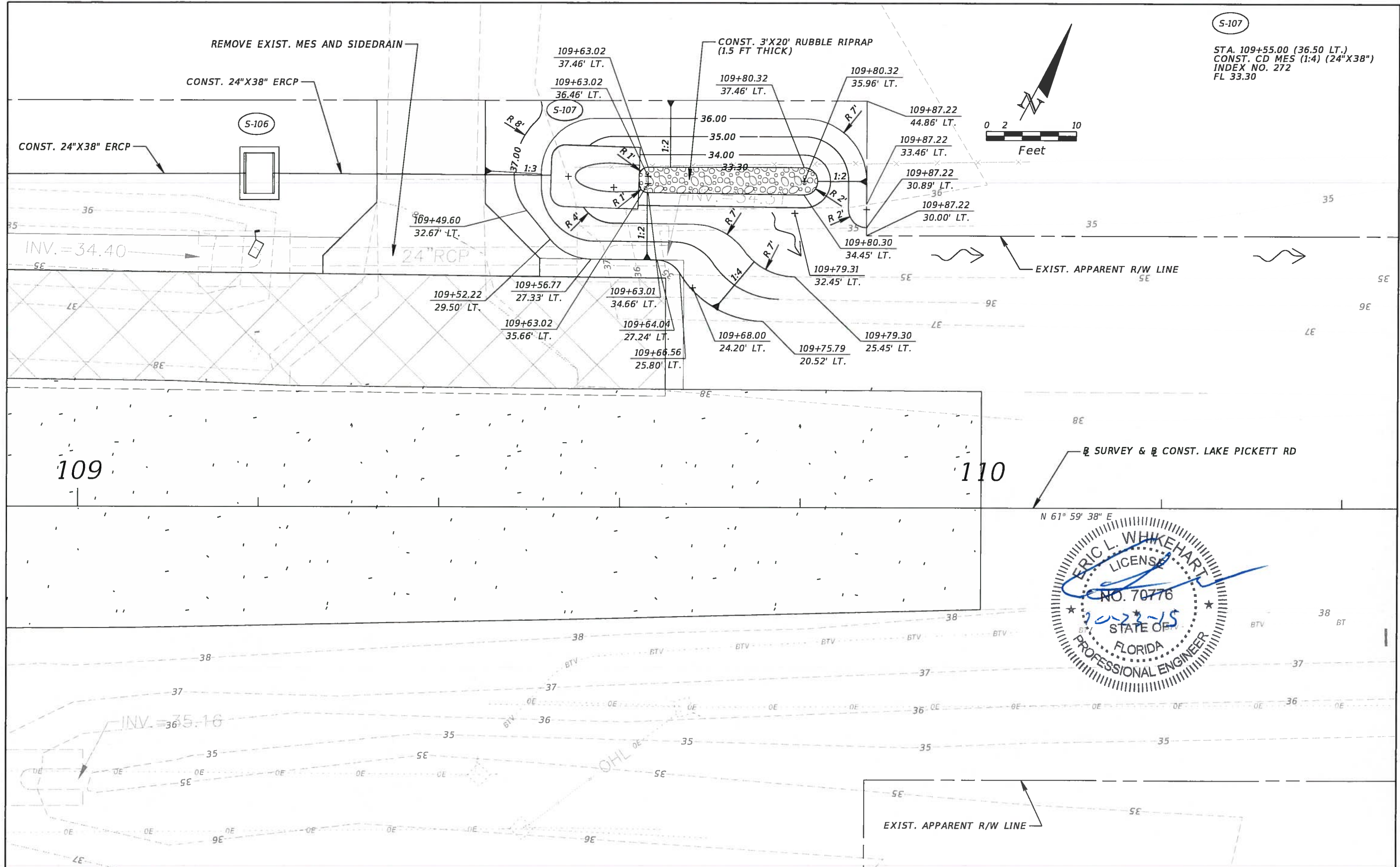
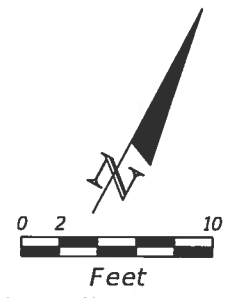
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CROSS SECTION SHEETS**

SHEET NO.  
22



S-107

STA. 109+55.00 (36.50 LT.)  
CONST. CD MES (1:4) (24"X38")  
INDEX NO. 272  
FL 33.30



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
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 ERIC L. WHITEHART, P.E. 70776  
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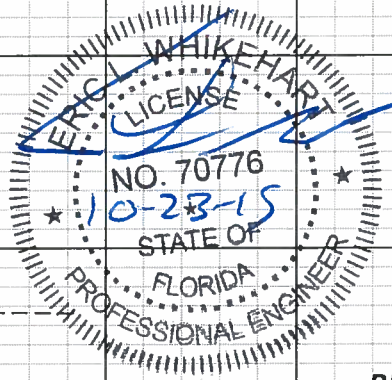
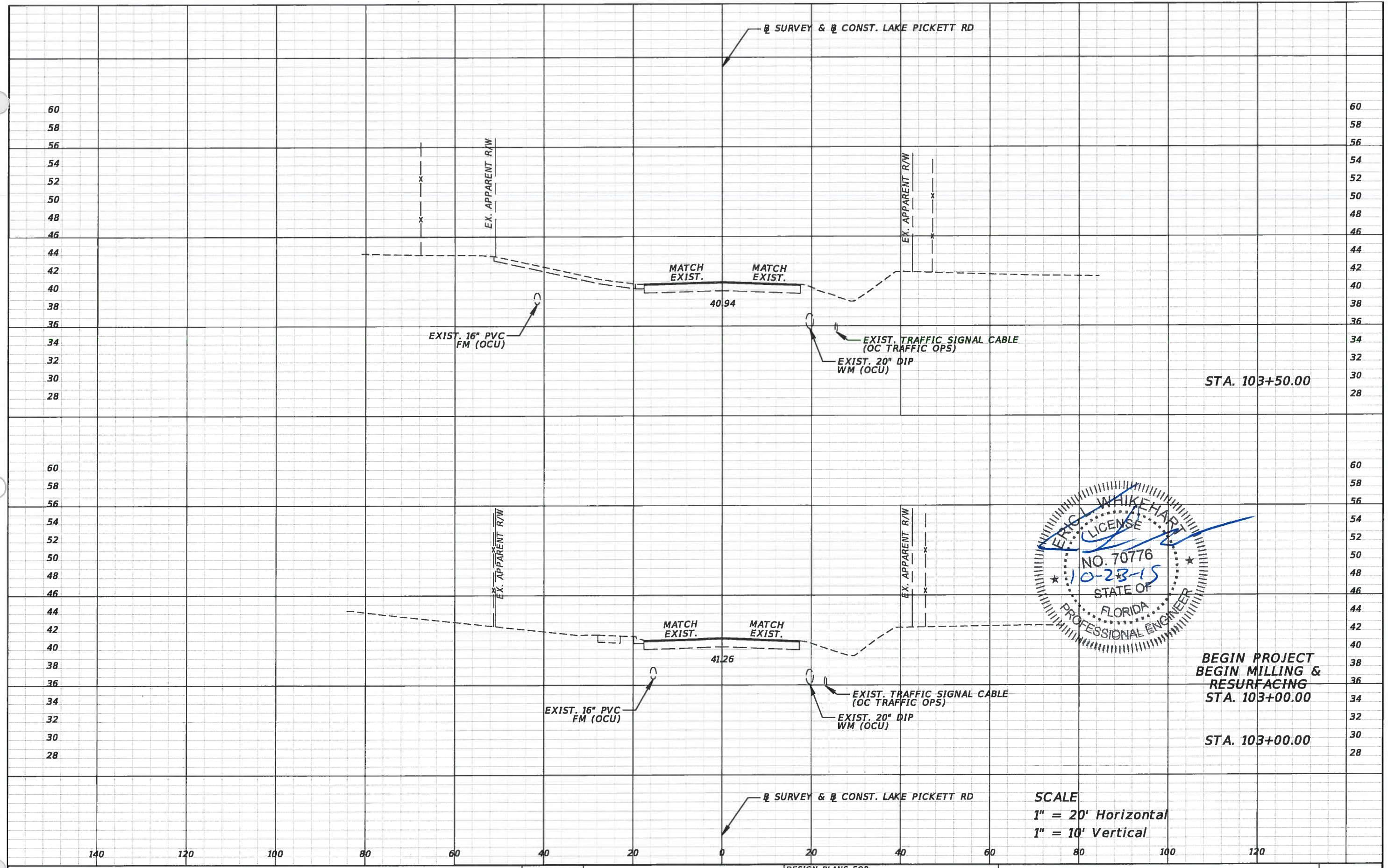
DESIGN PLANS FOR:  
**LAKE PICKETT RD AT N. TANNER RD**  
**INTERSECTION IMPROVEMENTS**

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

## DRAINAGE DETAIL SHEET

SHEET NO.  
 23





**BEGIN PROJECT  
BEGIN MILLING &  
RESURFACING  
STA. 103+00.00**

**STA. 103+00.00**

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



**TLP ENGINEERING CONSULTANTS, INC**  
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PH. 407-901-5060  
**ERIC L. WHIKEHART, P.E. 70776**  
CERT. OF AUTH. #27205

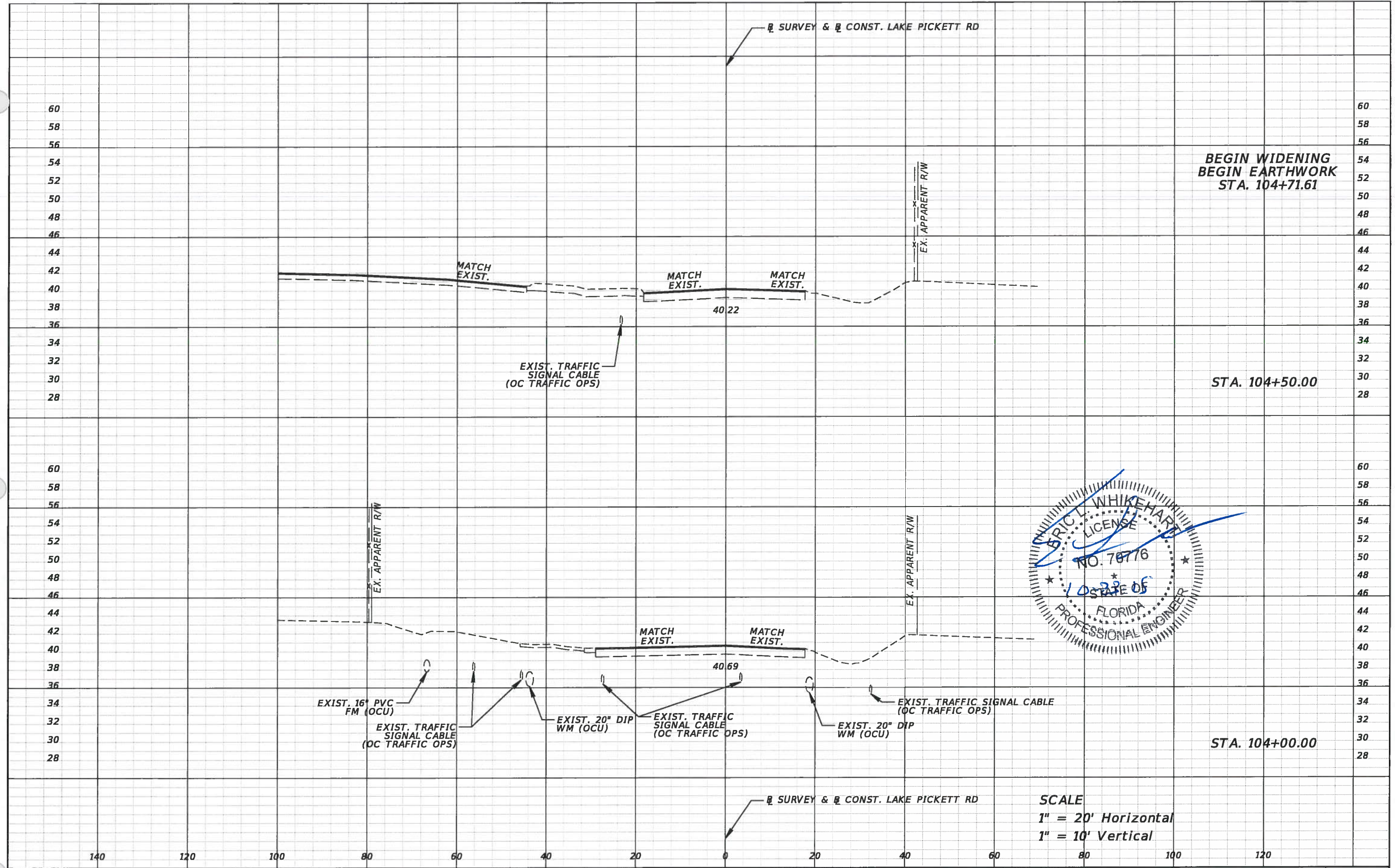
DESIGN PLANS FOR:  
**LAKE PICKETT RD AT N. TANNER RD**  
**INTERSECTION IMPROVEMENTS**

PROJECT NAME	PROJECT NO.
<b>LAKE PICKETT</b>	<b>CIP-2722</b>

**CROSS SECTION SHEETS**

SHEET NO.  
**24**

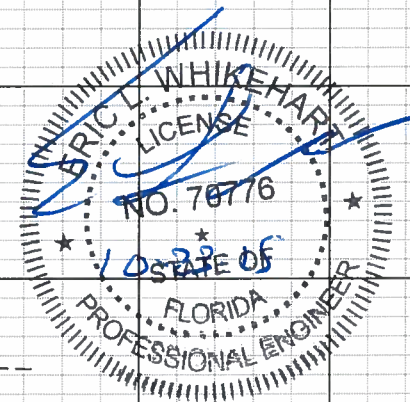




BEGIN WIDENING  
BEGIN EARTHWORK  
STA. 104+71.61

STA. 104+50.00

STA. 104+00.00



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

REVISIONS	
DATE	DESCRIPTION



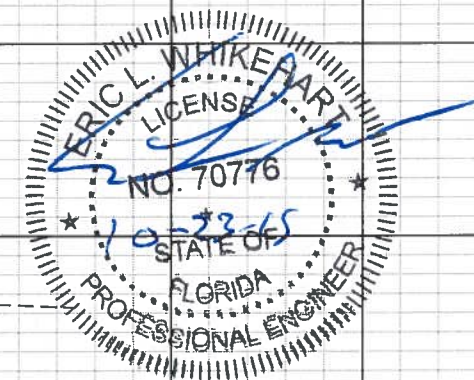
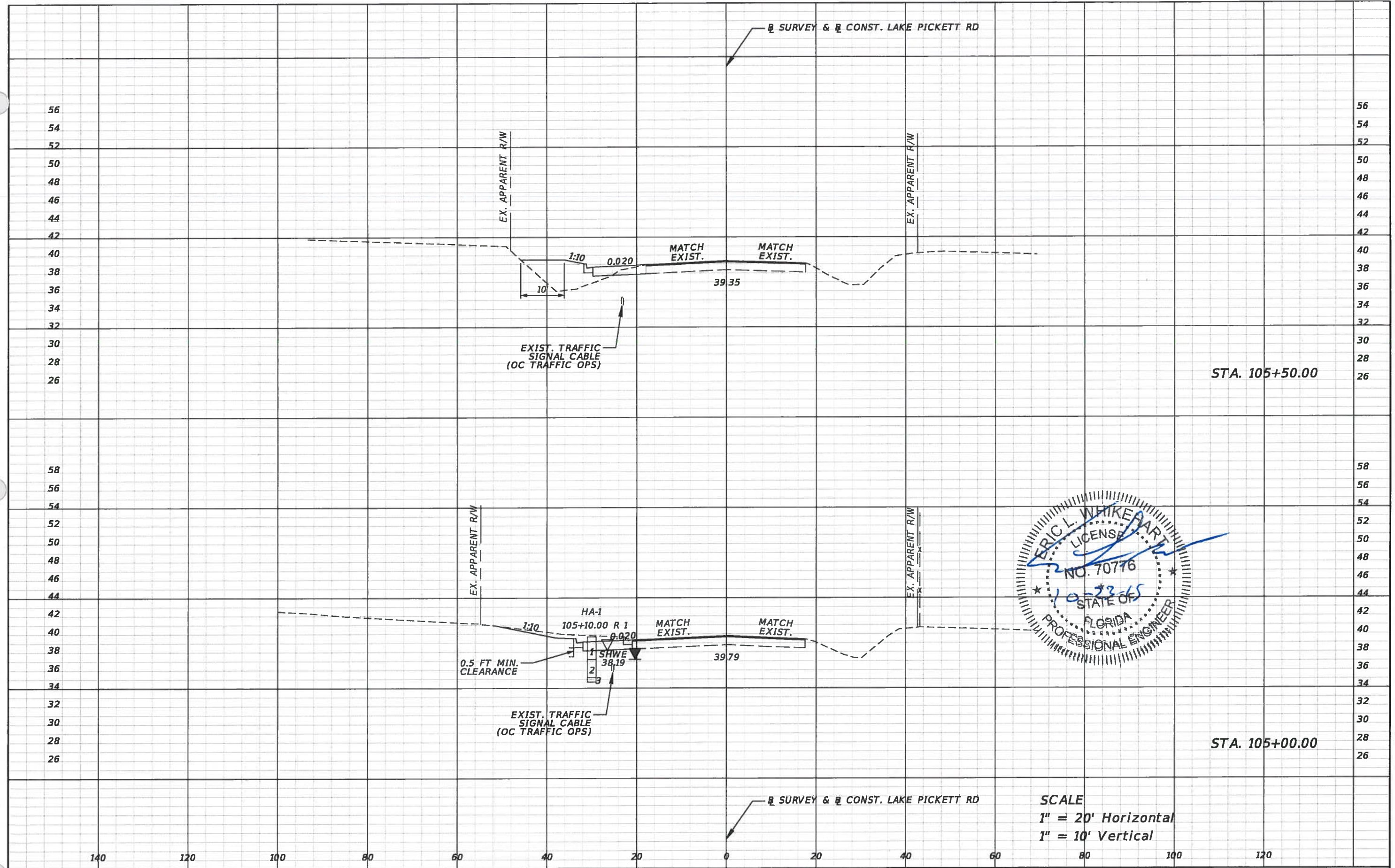
TLP ENGINEERING CONSULTANTS, INC.  
11486 CORPORATE BLVD., SUITE 151  
ORLANDO, FL. 32817  
PH. 407-901-5060  
ERIC L. WHITEHART, P.E. 70776  
CERT. OF AUTH. #27205

DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
25





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHITEHART, P.E. 70776  
 CERT. OF AUTH. #27205

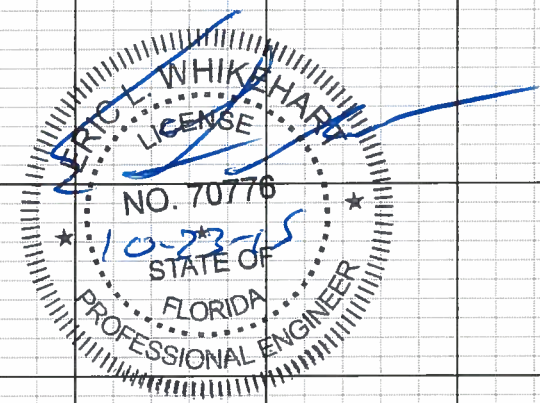
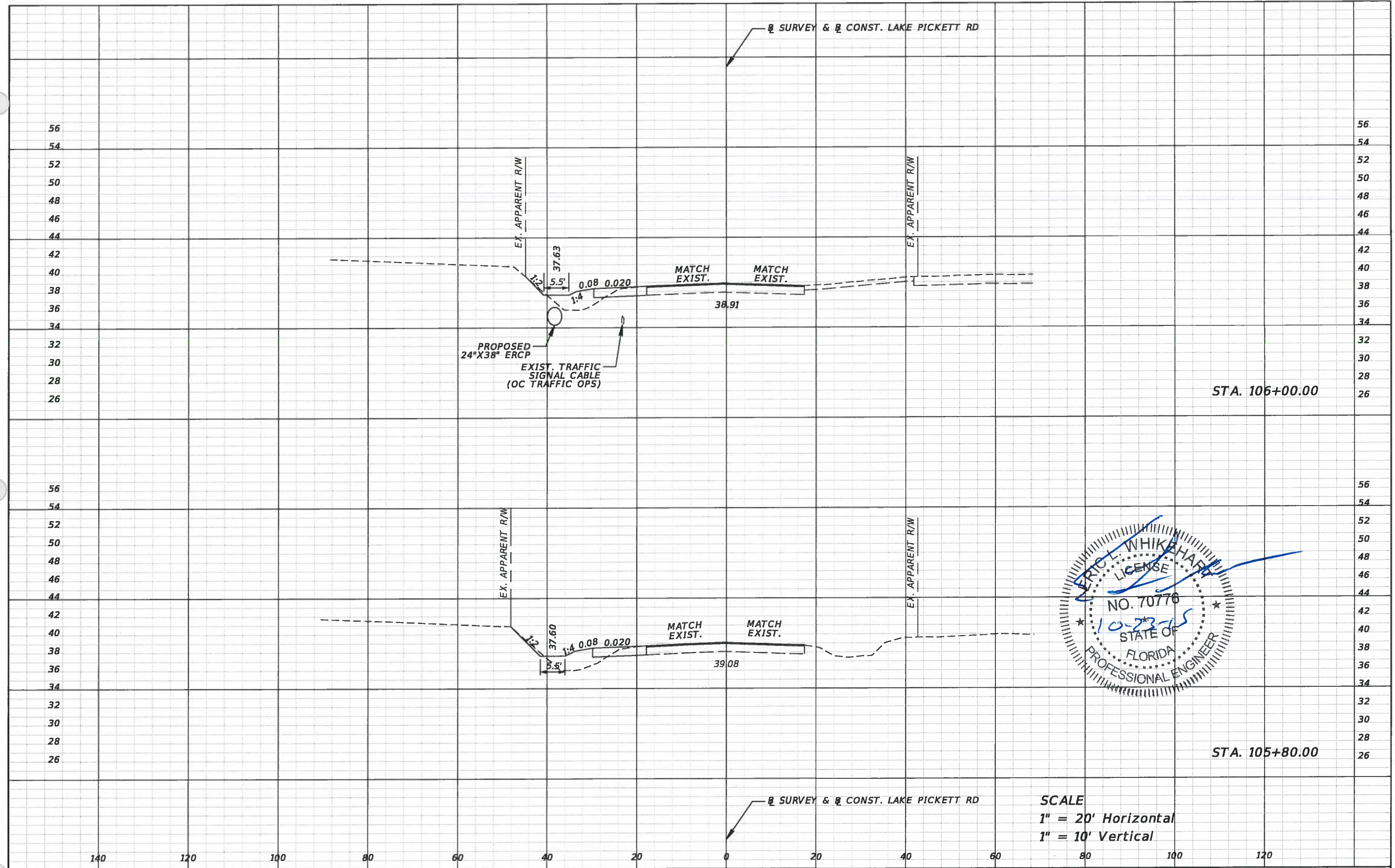
DESIGN PLANS FOR:  
 LAKE PICKETT RD AT N. TANNER RD  
 INTERSECTION IMPROVEMENTS

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
 26





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



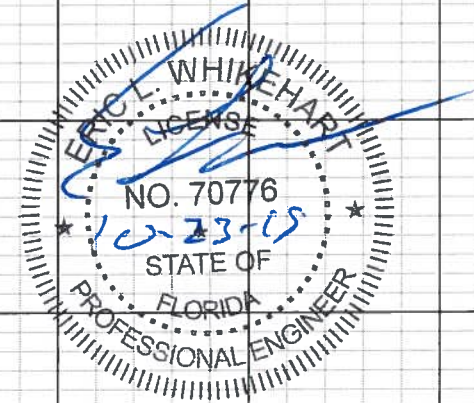
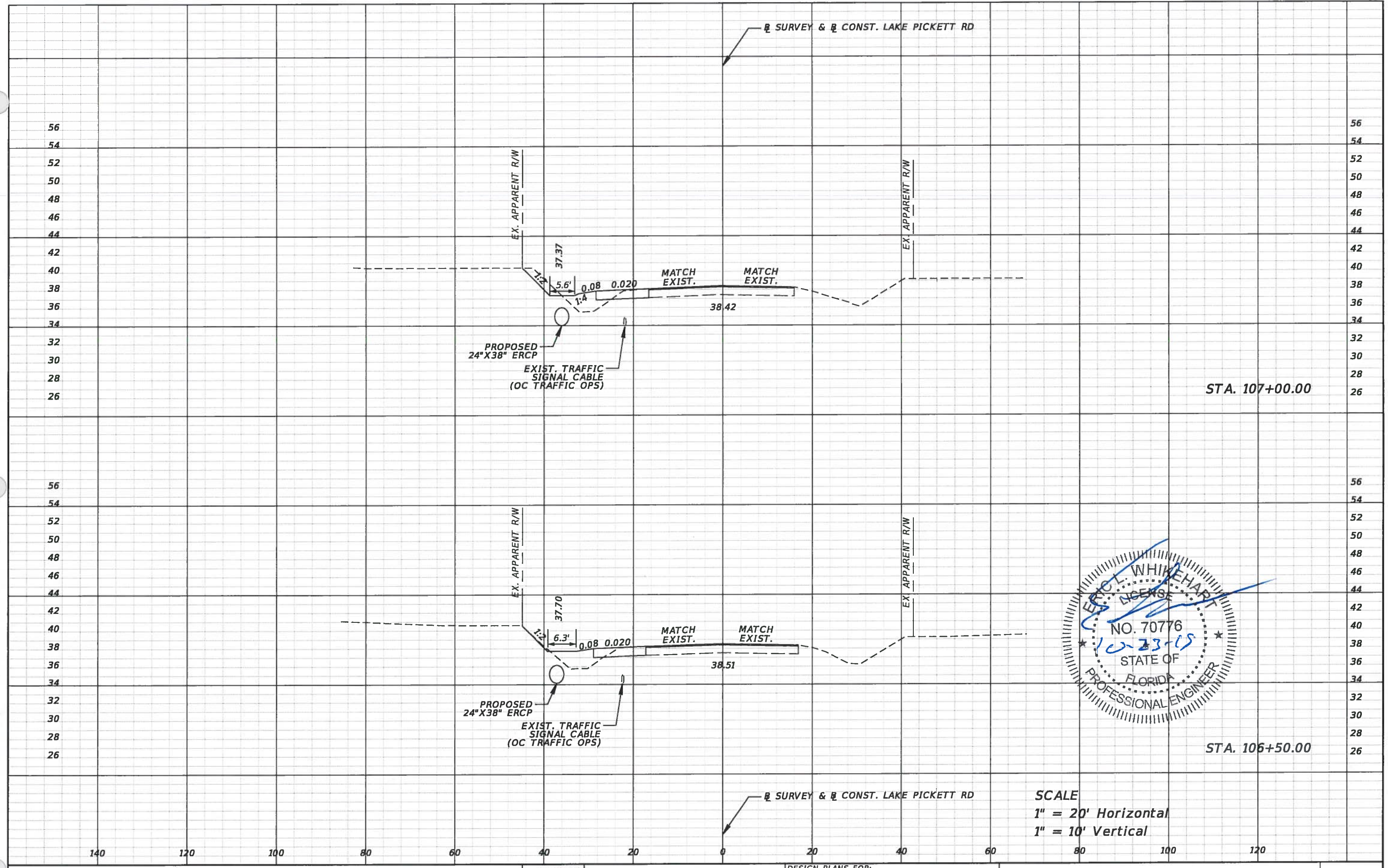
TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHIKEHART, P.E. 70776  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
27





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



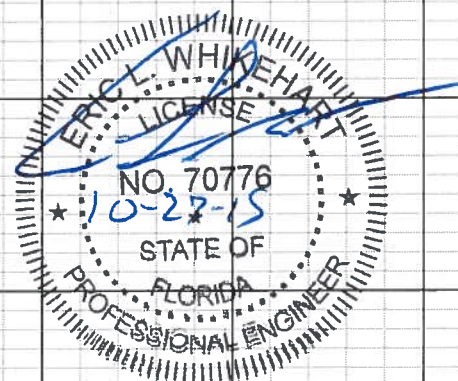
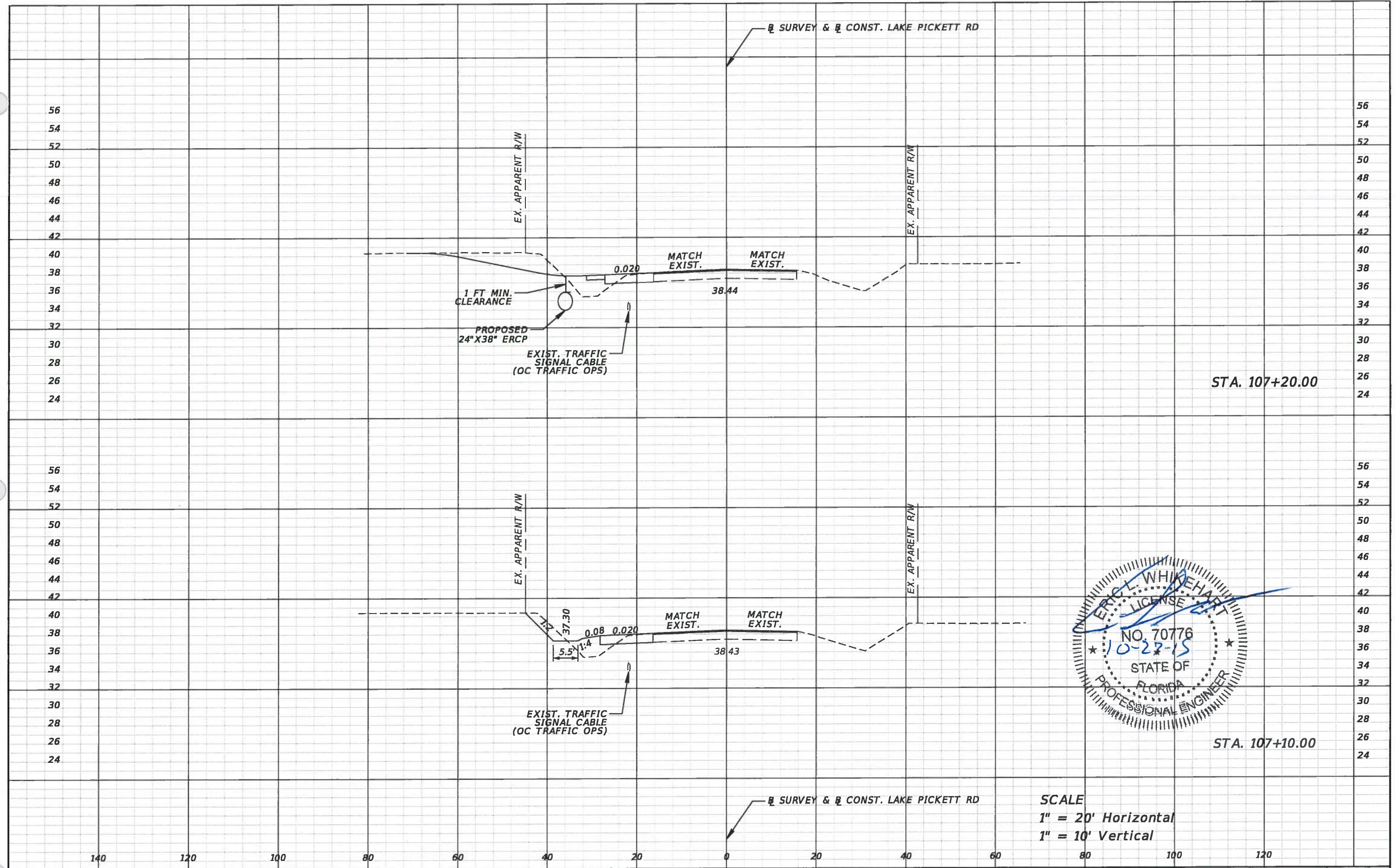
TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHIKEHART, P.E. 70776  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
28





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



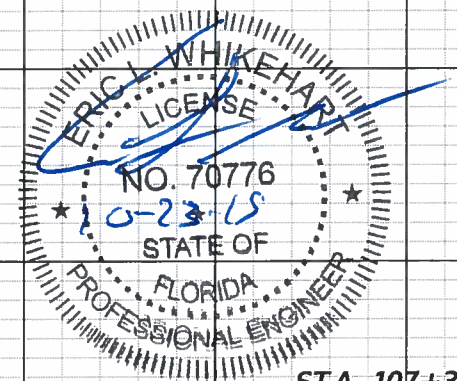
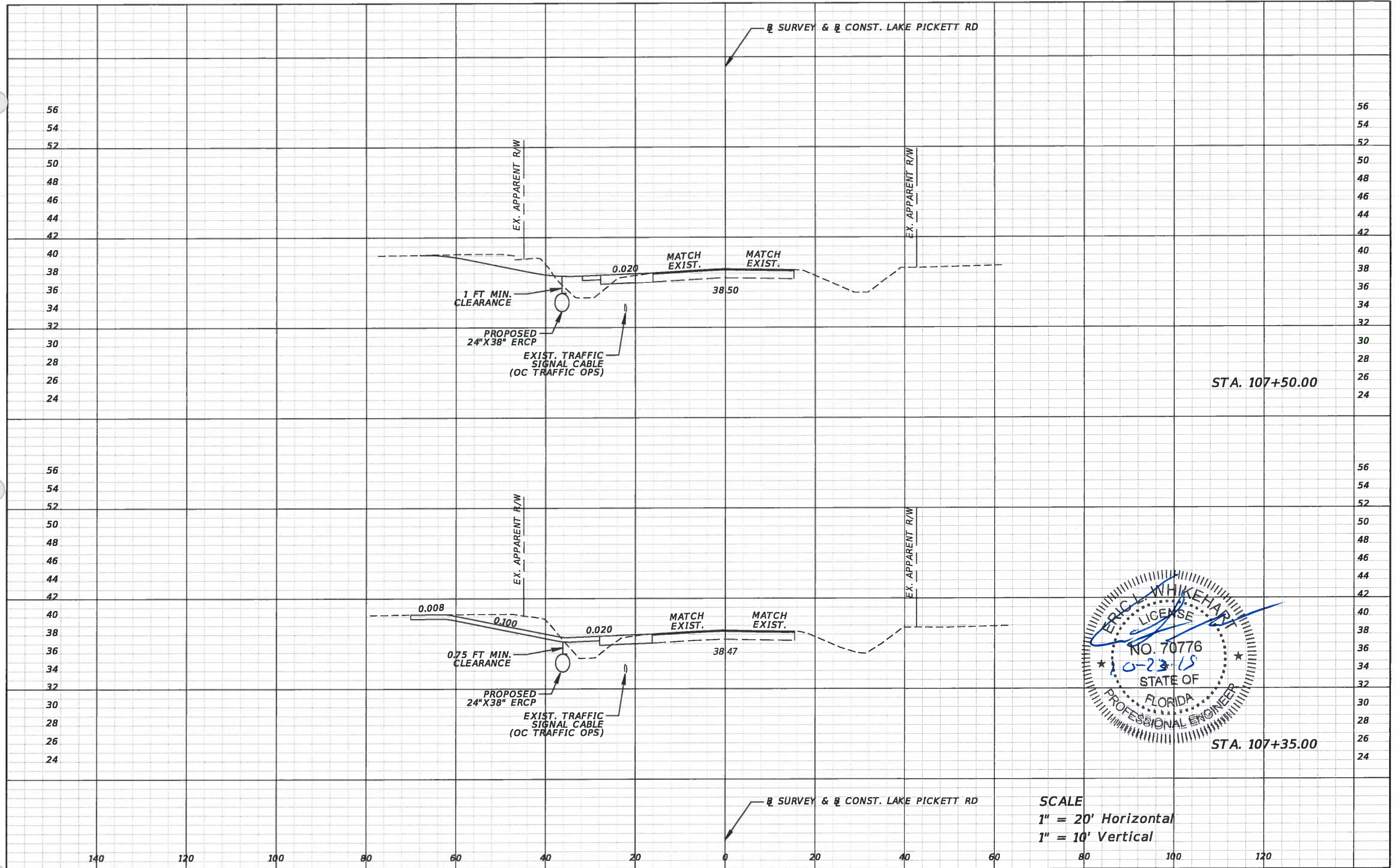
TLP ENGINEERING CONSULTANTS, INC  
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 ORLANDO, FL. 32817  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
29





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

REVISIONS	
DATE	DESCRIPTION

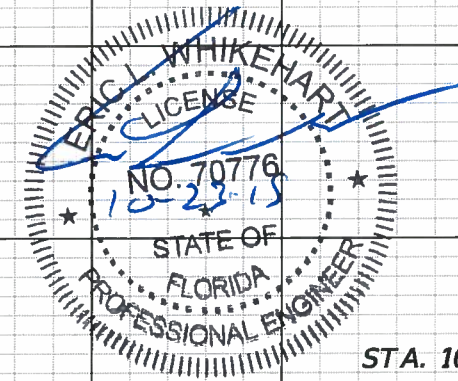
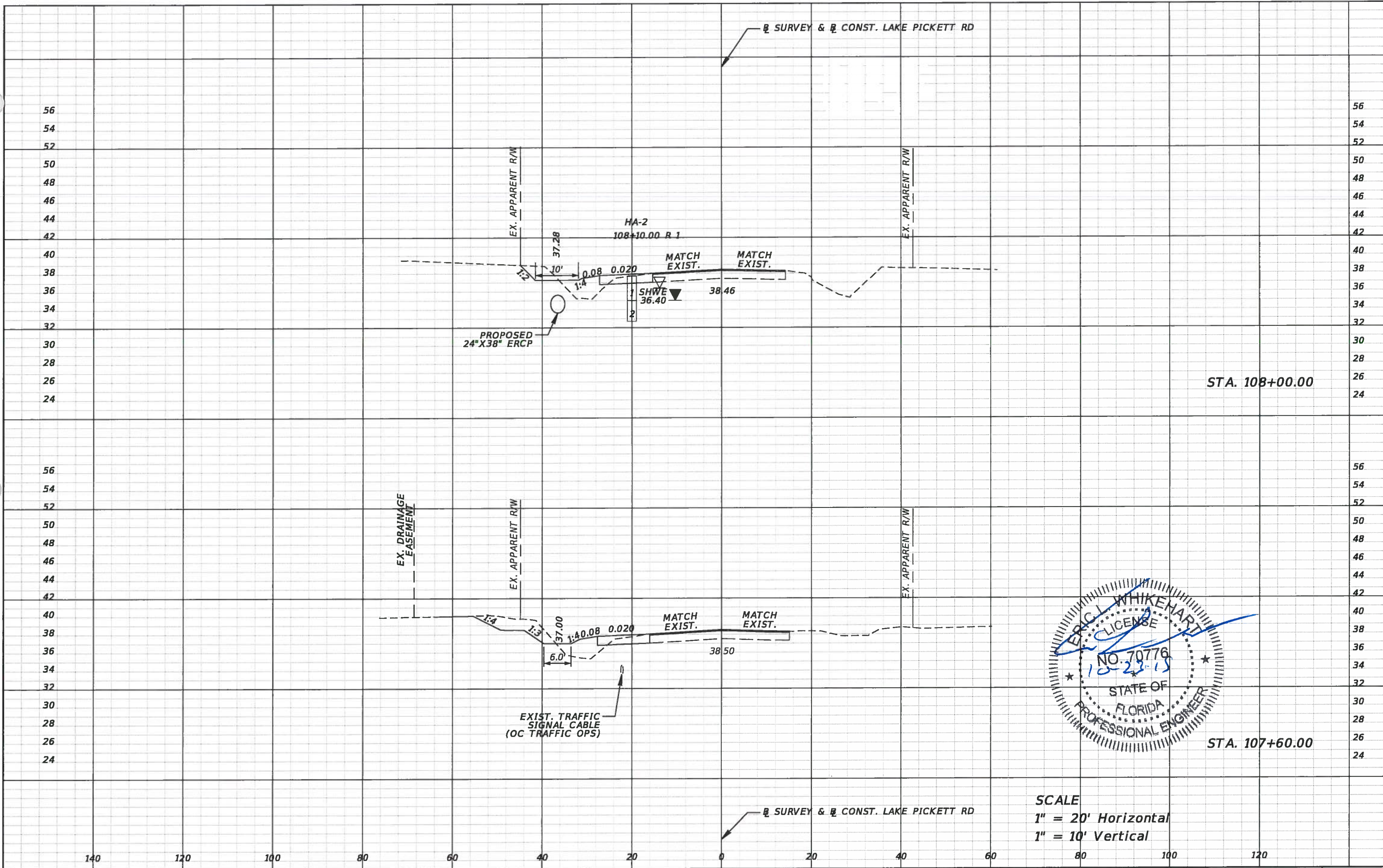
**ORANGE COUNTY GOVERNMENT**  
 TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
 30





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



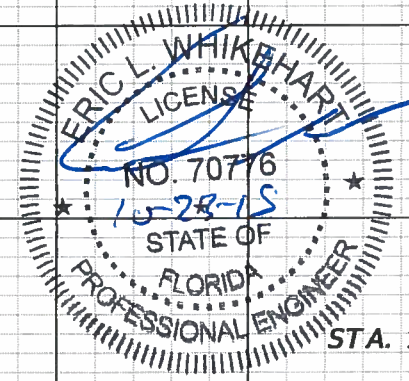
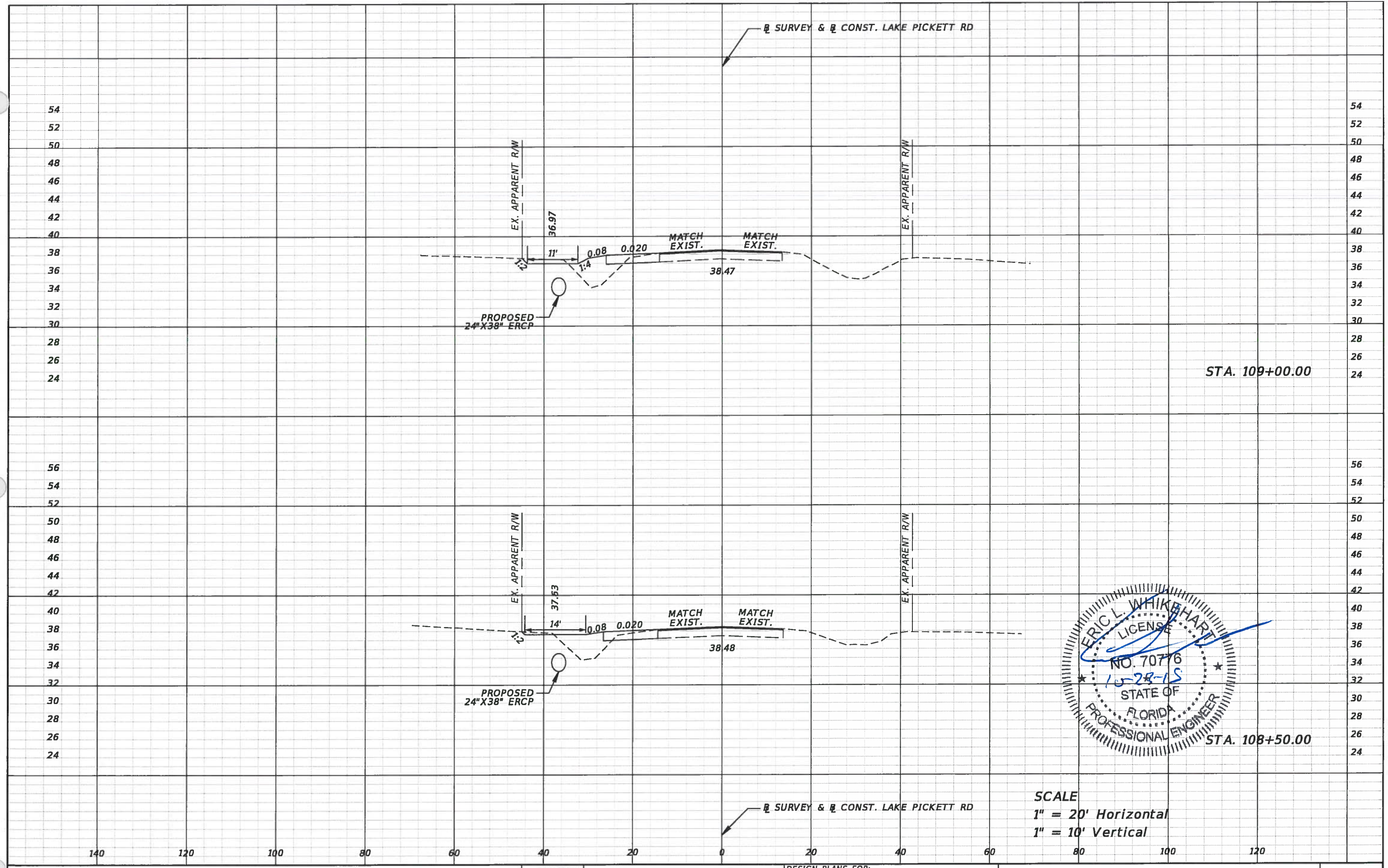
TLP ENGINEERING CONSULTANTS, INC  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
31





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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



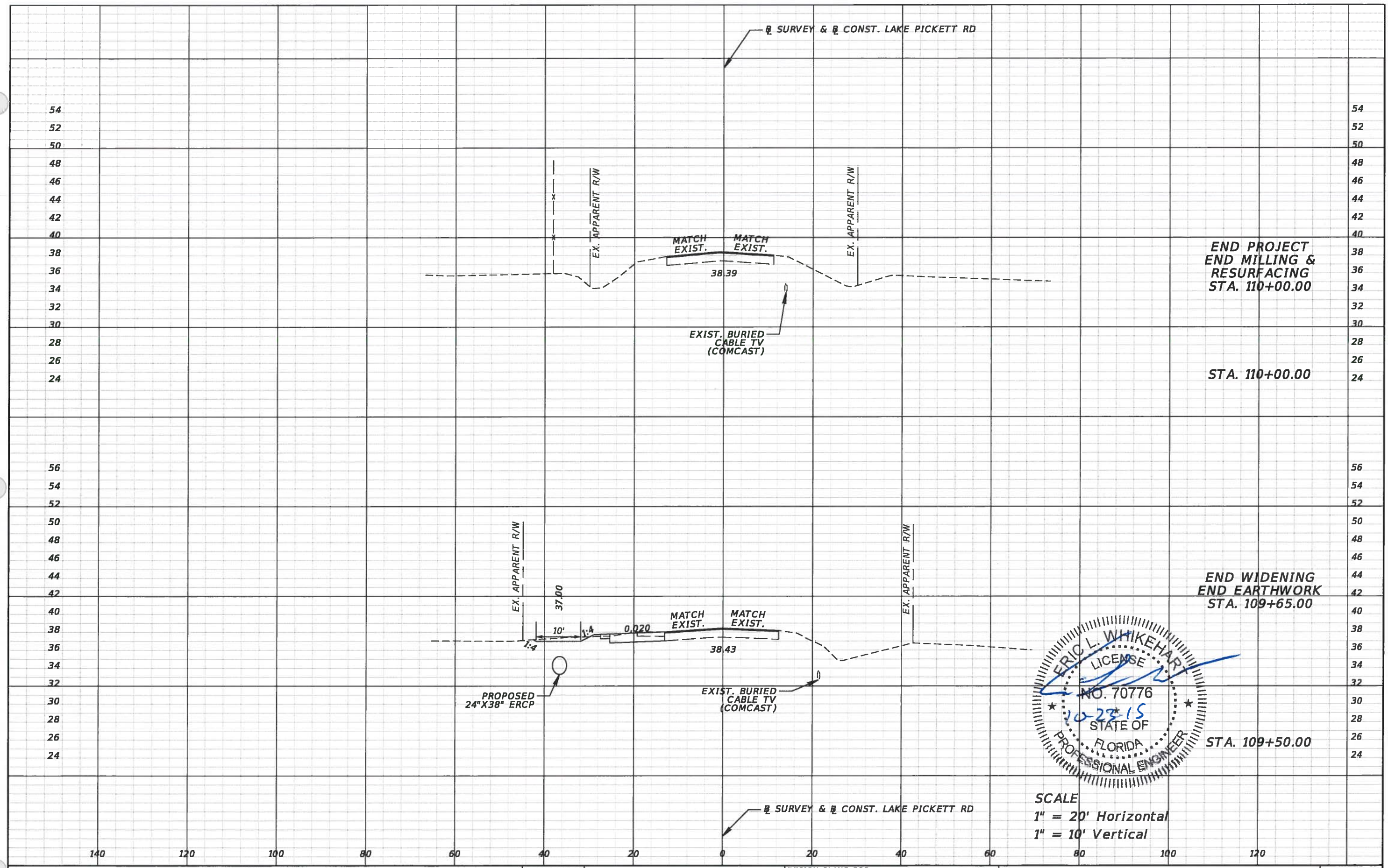
TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
32



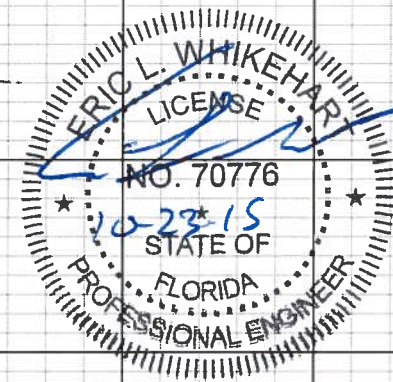


END PROJECT  
END MILLING &  
RESURFACING  
STA. 110+00.00

STA. 110+00.00

END WIDENING  
END EARTHWORK  
STA. 109+65.00

STA. 109+50.00



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

REVISIONS	
DATE	DESCRIPTION



TLP ENGINEERING CONSULTANTS, INC  
11486 CORPORATE BLVD., SUITE 151  
ORLANDO, FL 32817  
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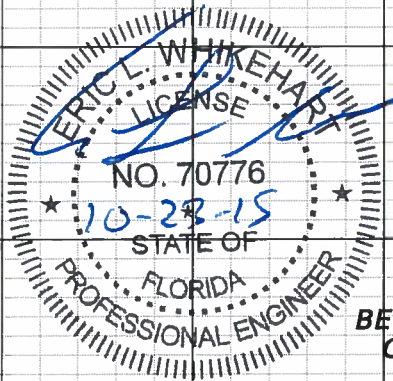
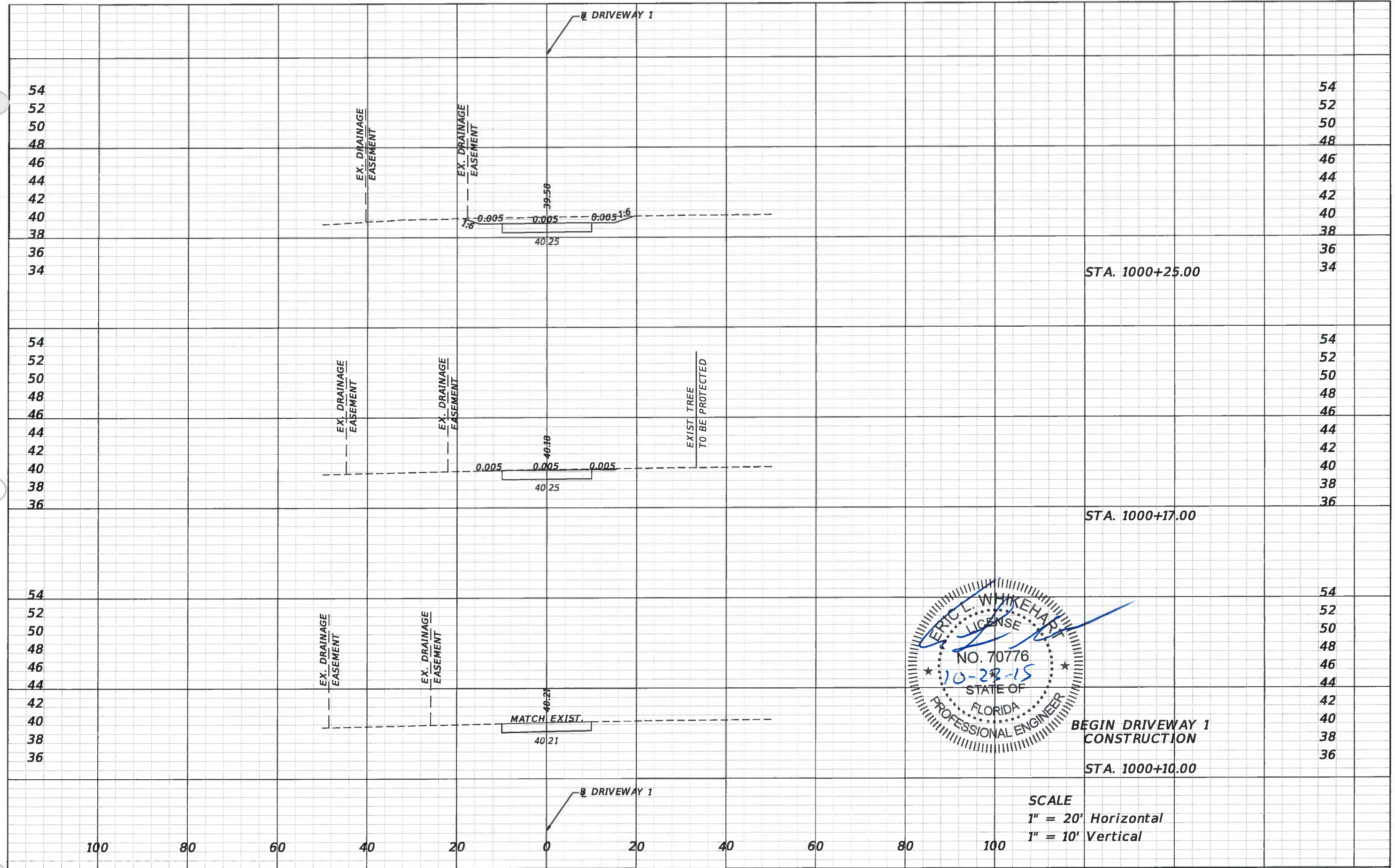
DESIGN PLANS FOR:  
LAKE PICKETT RD AT N. TANNER RD  
INTERSECTION IMPROVEMENTS

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
33





BEGIN DRIVEWAY 1  
CONSTRUCTION

STA. 1000+10.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



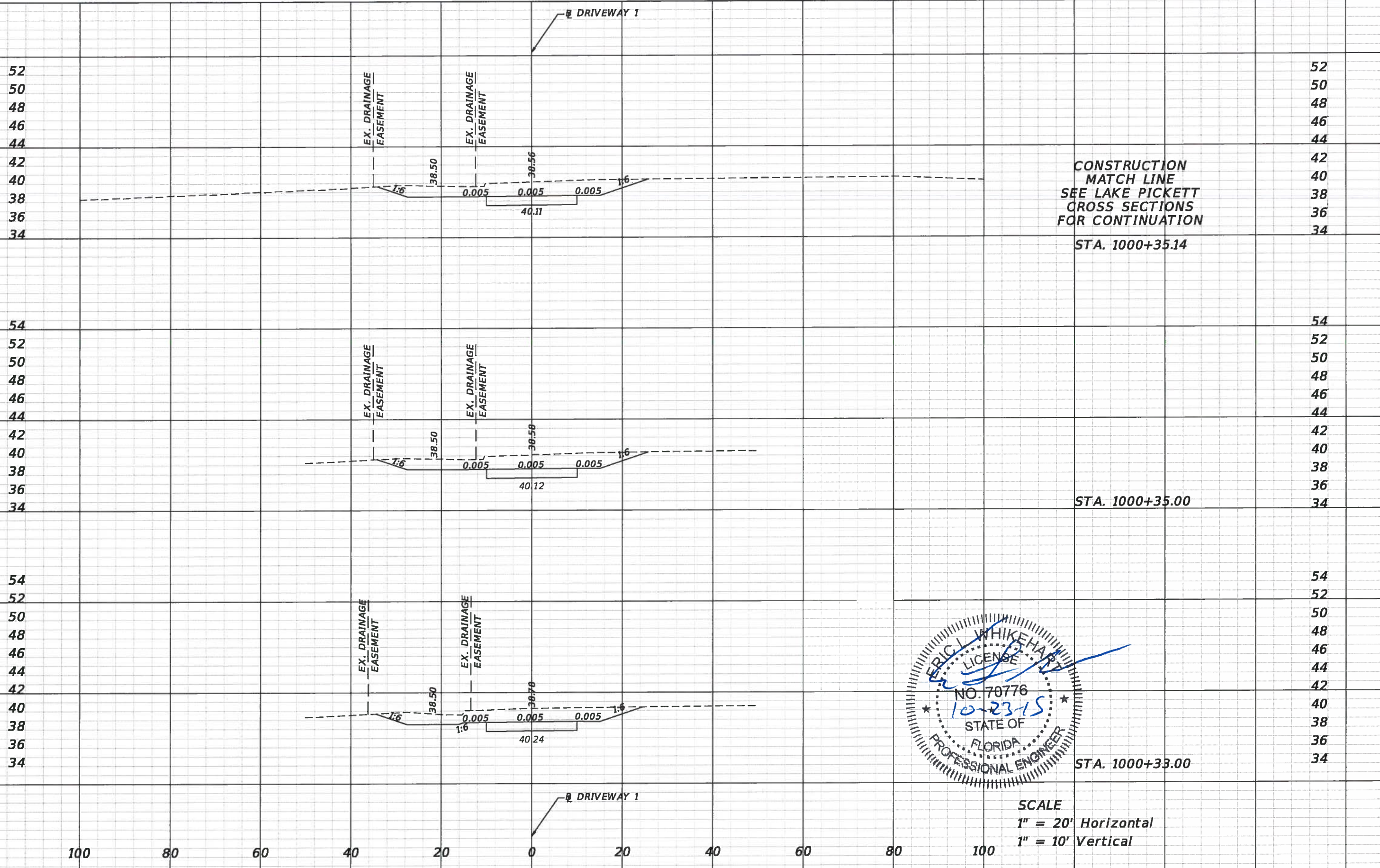
TLP ENGINEERING CONSULTANTS, INC  
11486 CORPORATE BLVD., SUITE 151  
ORLANDO, FL 32817  
PH. 407-901-5060  
ERIC L. WHITEHART, P.E. 70776  
CERT. OF AUTH. #27205

DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
34





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**ORANGE COUNTY GOVERNMENT**  
 TLP ENGINEERING CONSULTANTS, INC  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHIKEHART, P.E. 70776  
 CERT. OF AUTH. #27205

DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**CROSS SECTION SHEETS**

SHEET NO.  
35



**1 SITE DESCRIPTION**

**A Construction Activity:**

This SWPPP is applicable to all phases of construction for this project and will apply to phased construction plans including, but not limited to, maintenance of traffic plans, roadway widening, and drainage improvements.

**Project limits:**

The project is located in east Orange County at the intersection of Lake Pickett Road (CR 420) and North Tanner Road. The project limits along Lake Pickett Road extend 100 feet west of the intersection to 600 feet east of the intersection and 103 ft north of the intersection along N. Tanner Rd in Section 13, Township 22 south, Range 31 east in Orange County, Florida.

**Project Description:**

The construction activities will take place over a 0.15 mile length of Lake Pickett Rd and N. Tanner Rd in Orange County, Florida. This project involves construction of a new right turn lane along Lake Pickett Rd in the westbound direction. Drainage improvements will be provided as needed for the proposed improvements. The roadway limits will be milled and resurfaced, disturbed permanent pervious area will be sodded with performance turf.

**B Major Soil Disturbing Activities:**

Soil disturbing activities are associated with the construction of the new turn lane, and storm sewer.

Clear and grub the area necessary to install perimeter erosion controls before beginning any work off pavement for the construction phase. Remove perimeter controls only after all upstream areas are stabilized.

**C Area Estimates:**

Total Project Area: 1.55 acres.  
Total Area To Be Disturbed: 0.37 acres.

**E Runoff Data:**

**(1) runoff coefficients before, during, and after construction:**

**Runoff Coefficients:**

Grassed Area Adjacent To Pavement, C = 0.20  
Impervious Surface, C = 0.95  
Disturbed Areas During Construction, C = 0.40

Before Construction C = 0.54  
During Construction C = 0.58  
After Construction C = 0.60

**(2) Description of Soil or Quality of Discharge:**

The soils within the project limits are comprised primarily of fine sand and are classified as hydrologic group A. The most common soil type is Pomello Fine Sand. Detailed data on the soils and others found within the project limits is supplied in the soil survey of Orange County, prepared by the Natural Resources Conservation Service.

**(3) Estimates of Size of Drainage Area for Each Outfall:**

Lake Pickett Storm Sewer: S-106 1.55 ac  
Exist. Pond 10: S-104 5.68 ac

**(4) For locations of outfalls see construction plans. outfalls are located at the following approximate locations (latitude, longitude):**

S-104: Lake Pickett Storm Sewer (28° 34' 56" N, 81° 10' 16" W)  
S-106: Econ River (28° 34' 57" N, 81° 10' 14" W)

**E Site Map:**

The construction plans are being used as the required site map. The location of the required information is described below. The sheet numbers for the plan sheets referenced are identified on the Key Sheet of these construction plans.

**\* Drainage Patterns:**

The drainage basin divides and flow directions are shown on the drainage map. The shapes shown in these sheets indicate runoff collected and conveyed by either on site or off site systems.

**\* Approximate slopes:**

The slopes of the site can be seen in the roadway cross section sheets and the profile sheets.

**\* Areas of soil disturbance:**

The areas to be disturbed are shown in the roadway plans. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.

**\* Locations of Temporary Controls:**

These are shown on the stormwater pollution prevention plan sheets.

**\* Areas to be Stabilized:**

The roadway widening will be permanently stabilized with asphalt or concrete. Additionally, the fill slopes will be permanently stabilized with sod. These details are shown in the typical sections, roadway plans and profiles and cross sections.

**\* Surface Waters and Wetlands Within the Site:**

The project limits do not contain wetlands or surface waters.

**\* Discharge Points to Surface waters:**

No surface waters are located within the project limits.

**F (1) Name of Receiving Waters:**

The project drains to stormwater management facilities that ultimately outfall to the Econ River.

**(2) Wetland Area:**

There are no wetland impacts.

**2.0 CONTROLS:**

**A. Erosion, Sediment, and Turbidity Controls**

During construction operations, the following control measures will be used to prevent erosion and sedimentation.

Clearing and grubbing operations are controlled so as to minimize unprotected areas exposed to weather from eroding. Areas outside the limits of construction will not be disturbed. Excavated material will not be deposited in locations where it could be washed away by high water or storm water runoff, and stockpiles shall be covered or encircled with sediment containment devices. New and existing structures will be protected from siltation during construction.

Development of detailed erosion, sediment, and turbidity control plans. The plan will include:

- \* The construction project schedule with erosion, sediment, and turbidity control installation and maintenance tied to specific dates of construction activities.
- \* Modifications to the department's SWPPP and erosion control plans due to contractor's proposed construction means, methods and phasing. The contractor's erosion control plan will be utilized as the first formal update to the SWPPP.
- \* Name and phone number of contractor's representative responsible for erosion and sediment control installation and maintenance on a 24 hour basis.

The Contractor is advised that the contract drawings only indicate erosion, sediment, and turbidity controls at locations determined in the design process. However, the contractor is required to update the SWPPP to reflect any additional controls necessary to prevent the possibility of silting any adjacent lowland parcel, receiving water, or otherwise violating State and Federal permit requirements.

**(1) Stabilization Practices**

The Contractor shall be responsible for:

- a) Erosion and sediment control measures are to be placed prior to, or as the first step in construction. Sediment control devices will be employed as a perimeter defense against any transportation of silt off the site.
- b) Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity if the portions of the site has temporarily or permanently ceased.
- c) Permanent soil erosion control measures for all slopes, channels, ditches or any disturbed land areas shall be completed immediately after final grading. When it is not possible to permanently protect a disturbed area immediately after grading operations, temporary erosion control measures shall be installed. All temporary protection shall be maintained until permanent measures are in place and established.
- d) The Contractor shall furnish, install, maintain and subsequently remove, all necessary erosion control, including but not limited to sediment barriers, inlet protection devices, synthetic hay bales, turbidity barriers and any other miscellaneous items as indicated within the contract document. Or as required per applicable standards or the Engineer.

**(2) Structural Practices**

The following structural practices may be included as pay items in the summary of quantities within the construction plans:

- artificial coverings
- turbidity barrier
- sediment barrier
- geotextile filter fabric
- rock bags
- inlet protection devices

**B. Storm Water Management and Monitoring**

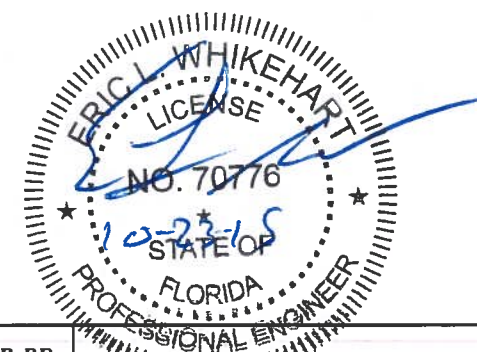
Runoff from Lake Pickett Road sheet flows into a swale/storm sewer system whose outfall ultimately discharges to the Econ River. Runoff from N. Tanner Road sheet flows into curb and gutter inlets and discharge into existing Pond 10. Existing Pond 10 outfalls into the Lake Pickett ditch/storm sewer system at inlet S-104.

**C. Other Controls**

- (1) Waste Disposal - To be developed as part of the contractor's ECP.
- (2) Sanitary Waste - To be developed as part of the contractor's ECP.
- (3) Fertilizers and Pesticides - To be developed as part of the contractor's ECP.
- (4) This project is exempt from having to submit an NOI application as the total disturbed area is less than 1 acre and is Not part of a planned phased construction that will exceed 1 acre of disturbed area.

**Non-Storm Water Discharges and Hazardous Waste**

When the Contractor encounters a spill, the contractor must contact Orange County. Construction will stop and work will not resume until directed by the engineer. Disposition of hazardous waste will be made in accordance with any requirements and regulations of any local, state, or federal agency jurisdiction.



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DESIGN PLANS FOR:  
LAKE PICKETT RD AT N. TANNER RD  
INTERSECTION IMPROVEMENTS  
PROJECT NAME PROJECT NO.  
LAKE PICKETT CIP-2722

STORMWATER POLLUTION PREVENTION PLAN (1 OF 2)

SHEET NO.

36



**3. MAINTENANCE**

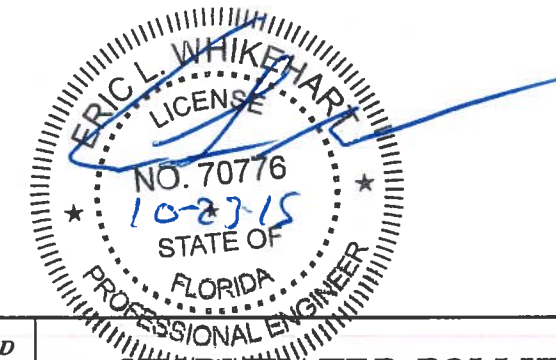
The Contractor shall be responsible for maintaining all pollution prevention controls. Daily inspections shall be made by the Contractor to determine the effectiveness of erosion, sedimentation, turbidity, and pollution control measures. Remedial action shall be performed immediately.

**4. INSPECTION**

The Contractor is required to inspect all erosion control features at least once every seven calendar days and within 24 hours of the end of a storm of 0.5 inches or greater. In addition, maintain all erosion control features as required herein and as specified in State and or Federal environmental regulatory permits. This includes, but is not limited to, the daily review of the location of silt fences in areas where construction activities have changed the natural contour and drainage runoff to ensure that silt fences are properly located for effectiveness. The Contractor will use a form acceptable to the Engineer to report all inspection findings and corrective actions taken as a result of the inspection. The Contractor will sign each inspection report and submit it weekly to the Engineer. The Contractor shall be responsible for the installation and maintenance of rain gauges. Daily Rainfall data will be recorded and submitted to the Engineer along with the weekly inspection reports.

**5. REFERENCES**

The construction plans and specifications for Lake Pickett Road at North Tanner Road Intersection Improvements are hereby referenced and made a part of this plan.



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PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**STORMWATER POLLUTION  
 PREVENTION PLAN (2 OF 2)**

SHEET NO.  
37

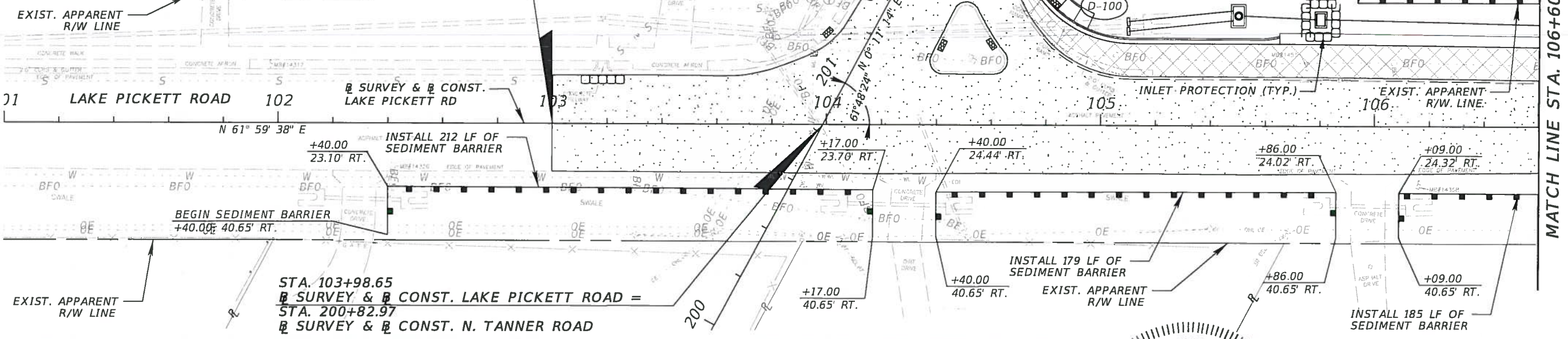


**LEGEND**

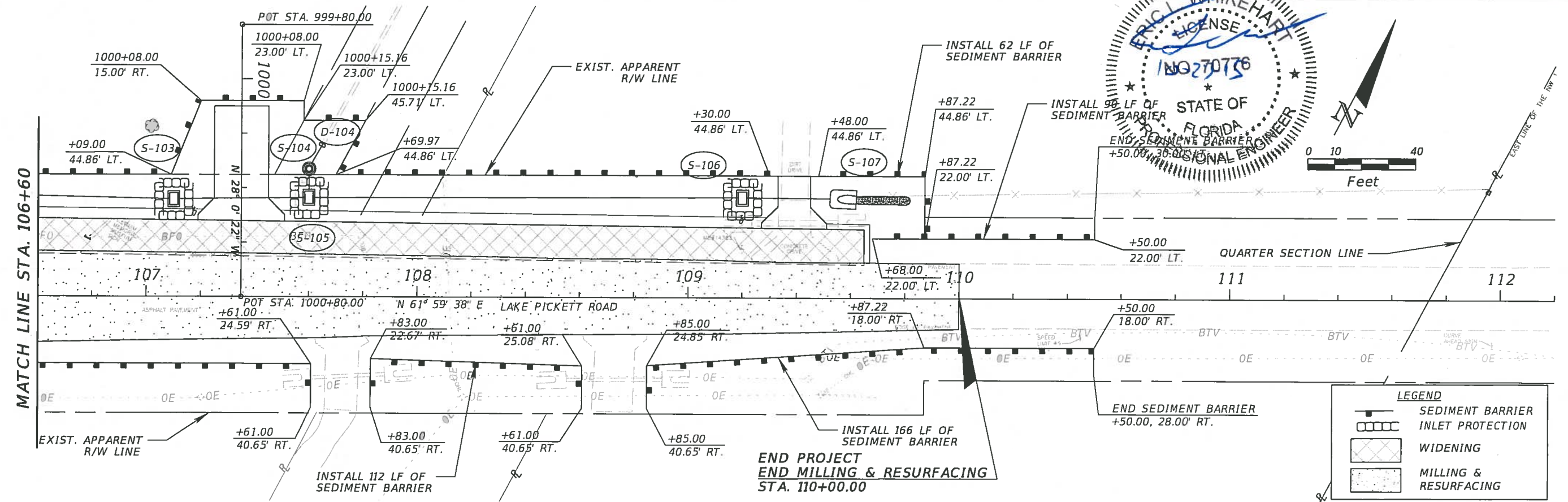
- SEDIMENT BARRIER
- INLET PROTECTION
- WIDENING
- MILLING & RESURFACING

**BEGIN PROJECT  
BEGIN MILLING & RESURFACING  
STA. 103+00.00**

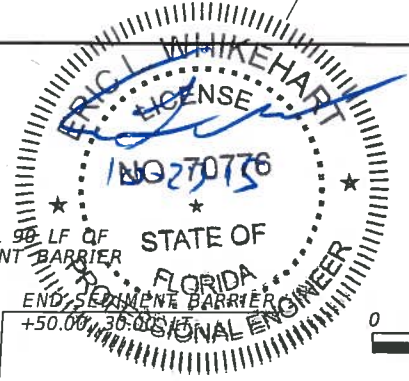
**END CONSTRUCTION  
END MILLING & RESURFACING  
STA. 202+06.00**



**STA. 103+98.65  
SURVEY & CONST. LAKE PICKETT ROAD =  
STA. 200+82.97  
SURVEY & CONST. N. TANNER ROAD**



**END PROJECT  
END MILLING & RESURFACING  
STA. 110+00.00**

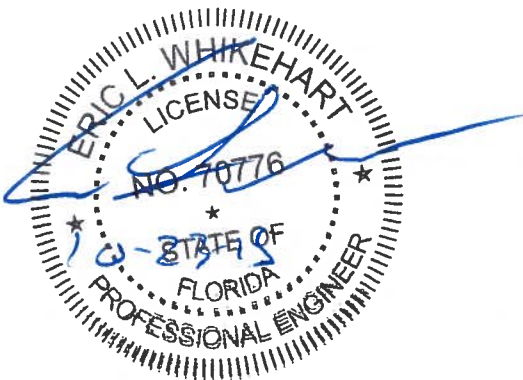
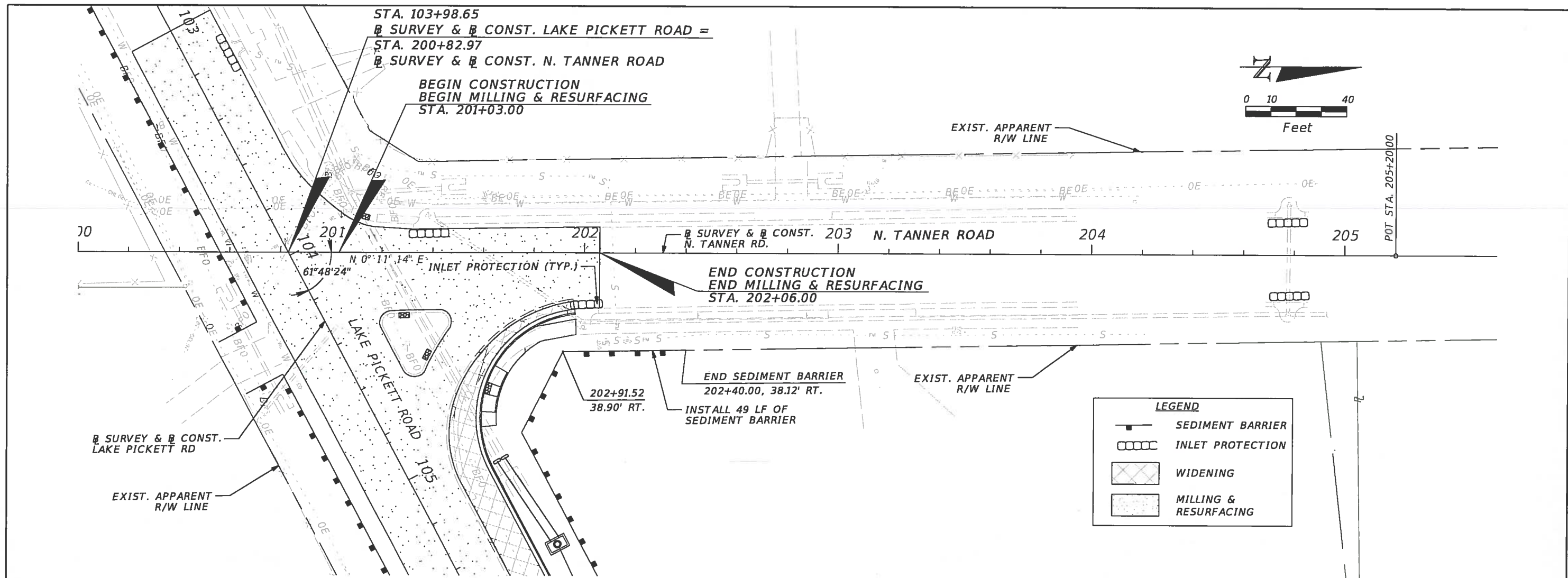


**LEGEND**

- SEDIMENT BARRIER
- INLET PROTECTION
- WIDENING
- MILLING & RESURFACING

REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHITEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR:		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			LAKE PICKETT	PROJECT NO. CIP-2722	
								38





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

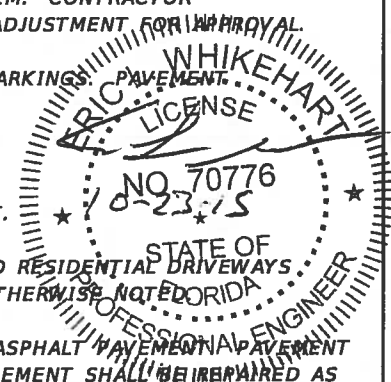
**STORMWATER POLLUTION  
PREVENTION PLAN**

SHEET NO.
39



**MAINTENANCE OF TRAFFIC  
GENERAL NOTES**

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 ED.) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS (2014 ED.)
2. THE CONTRACTOR SHALL CONTACT ORANGE COUNTY ONE (1) WEEK PRIOR TO THE START OF ANY PHASE OF WORK TO REQUEST STREET, LANE, OR SIDEWALK CLOSURE AUTHORIZATION. NO LANE CLOSURES WILL BE ALLOWED DURING THE FOLLOWING TIMES:  
  
MON - FRI: 7:00 AM TO 10:00 AM, 3:30 PM TO 7:30 PM  
  
LANE CLOSURES WILL NOT BE PERMISSABLE DURING SPECIAL EVENTS INCLUDING BUT NOT LIMITED TO:  
  
UCF FOOTBALL GAMES
3. LOCAL RESIDENTIAL/BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE RESIDENTS/BUSINESSES AFFECTED BY CONSTRUCTION ACTIVITIES, ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE NOTIFICATION TO THE TRAFFIC CONTROL MANAGER PRIOR TO DISTRIBUTION.
4. THE CONTRACTOR SHALL NOTIFY THE ORANGE COUNTY SCHOOL BOARD SAFETY MANAGER, WINNIE GERKIN (407) 521-2339, ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION TO COORDINATE SCHOOL BUS RE-ROUTING.
5. ORANGE COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS.
6. ANY CHANGES MADE TO THE TRAFFIC CONTROL PLAN BY THE CONTRACTOR, SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED AND REGISTERED IN THE STATE OF FLORIDA AND APPROVED BY THE COUNTY PRIOR TO IMPLEMENTATION.
7. CONTRACTOR SHALL NOTIFY LYNX AT (407) 841-2279 A MINIMUM OF ONE (1) WEEK PRIOR TO IMPLEMENTING ANY STREET CLOSURE OR DETOUR PLAN TO COORDINATE BUS RE-ROUTING.
8. THE NUMBER OF DEVICES SHOWN ON THESE PLANS ARE FOR ILLUSTRATION PURPOSES. ADDITIONAL DEVICES MAY BE REQUIRED TO PROPERLY PROTECT THE WORKERS AND WORK ZONE FROM VEHICULAR TRAFFIC.
9. IF TEMPORARY MARKINGS ARE REQUIRED ON FRICTION COURSE SURFACES, ALL MARKINGS SHALL BE INSTALLED USING 3M BRAND STAMARK REMOVABLE TAPE, SERIES 750, WET REFLECTIVE TEMPORARY TAPE. THE USE OF "FOIL BACK" TYPES OF TEMPORARY TAPE IS NOT PERMITTED.
10. 3M BRAND REMOVABLE BLACK MASK TAPE SERIES 145, IS THE ONLY APPROVED MATERIAL FOR "BLACKING OUT" OF EXISTING PAVEMENT MARKINGS ON FINAL ROADWAY SURFACES. UNDER NO CIRCUMSTANCES WILL BLACK PAINT OR GRINDING BE PERMITTED.
11. PAINT PRODUCTS AND RETRO-REFLECTIVE PAVEMENT MARKERS WILL BE CONSIDERED TEMPORARY PAVEMENT MARKING MATERIALS ON SURFACES THAT ARE TO BE MILLED AND RESURFACED.
12. EXISTING PAVEMENT MARKINGS, WHICH ARE TO BE OBLITERATED, SHALL BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REINSTATING VEHICULAR TRAFFIC. PAYMENT IS TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM.
13. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE NEW OR LIKE NEW CONDITION. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE INDICATED.
14. CHANNELIZING DRUMS SHALL BE USED ON NEWLY PAVED ROADWAYS.
15. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN THE CLEAR ZONE OR A ROADWAY OPEN TO VEHICULAR TRAFFIC.
16. EXISTING REGULATORY AND WARNING SIGNS ARE TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED. ALL EXISTING SIGNS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING A CONSTRUCTION PHASE SHALL BE REMOVED OR COVERED AS NECESSARY. THE CONTRACTOR SHALL MAINTAIN AND RELOCATE EXISTING ROADWAY SIGNS, AS CONDITIONS WARRANT IN EACH PHASE, THROUGHOUT THE DURATION OF CONSTRUCTION. THE COST OF THESE SIGNING OPERATIONS IS TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC LS PAY ITEM.
17. PEDESTRIAN CONTROL SHALL BE MAINTAINED ON ONE SIDE OF THE ROAD AT ALL TIMES WHERE EXISTING SIDEWALK EXISTS. IF UNABLE TO DO SO, THE CONTRACTOR SHALL PROVIDE TEMPORARY WALKWAYS, BOARDWALKS AND/OR TEMPORARY CONCRETE SIDEWALKS. PAYMENT IS TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING EACH EMPLOYEE SUPERVISING THE SELECTION AND PLACEMENT OF MAINTENANCE OF TRAFFIC (MOT) CONTROL DEVICES SHALL BE PROPERLY TRAINED BY ATTENDING AND SUCCESSFULLY COMPLETING AN FDOT APPROVED MOT COURSE. THE TRAINING SHALL BE AT A LEVEL APPLICABLE TO THE EMPLOYEE'S LEVEL OF INVOLVEMENT. COPIES OF CERTIFICATIONS SHALL BE PROVIDED TO ORANGE COUNTY PRIOR TO IMPLEMENTING ANY PHASE OF MOT.
19. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL SUPERVISOR (TCS) WHO IS RESPONSIBLE FOR INITIATING, INSTALLING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES.
20. THE TCS SHALL BE AVAILABLE ON A 24-HOUR PER DAY BASIS, PARTICIPATE IN ALL CHANGES TO TRAFFIC CONTROL AND REVIEW THE PROJECT ON A DAY-TO-DAY BASIS.
21. THE TCS SHALL BE PRESENT DURING THE INITIAL SETUP OF THE TRAFFIC CONTROL PLAN AND ALL SUBSEQUENT PHASES OR CHANGES TO THE TRAFFIC CONTROL.
22. THE TCS SHALL IMMEDIATELY CORRECT ALL DEFICIENCIES.
23. THE CONTRACTOR SHALL ENSURE THE TCS BE AVAILABLE ON SITE WITHIN 45 MINUTES OF NOTIFICATION OF AN EMERGENCY SITUATION AND IS PREPARED TO RESPOND TO AND CORRECT THE TRAFFIC CONTROL OR PROVIDE ALTERNATE ARRANGEMENTS FOR CORRECTIVE ACTIONS.
24. THE TCS SHALL BE RESPONSIBLE FOR PERFORMING WEEKLY, DAYTIME AND NIGHT TIME INSPECTIONS OF ALL TRAFFIC CONTROL DEVICES, TRAFFIC FLOW, PEDESTRIAN, AND BICYCLIST MOVEMENT THROUGH OUT THE WORK AREA AND BUSINESS ACCOMMODATIONS.
25. ORANGE COUNTY MAY DISQUALIFY AND REMOVE FROM THE PROJECT A TCS THAT FAILS TO COMPLY WITH THESE PROVISIONS. ORANGE COUNTY MAY ALSO SUSPEND ALL WORK ACTIVITIES UNTIL CORRECTIVE ACTIONS HAVE BEEN COMPLETED.
26. THE CONTRACTOR SHALL EITHER BACK FILL OR COVER BY AN APPROVED METHOD ANY OPEN TRENCHES AT THE END OF EACH WORK PERIOD.
27. THE CONTRACTOR SHALL REPLACE ANY VEHICLE DETECTION LOOPS DAMAGED DURING CONSTRUCTION, AS PER THE ORIGINAL CONTRACT PLANS.
28. MODIFICATIONS TO OR RELOCATION OF SIGNALS SHALL BE THE CONTRACTORS RESPONSIBILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE MODIFICATIONS OR RELOCATIONS DURING EACH PHASE OF CONSTRUCTION. PAYMENT FOR ALL SIGNAL HEAD RELOCATIONS, MODIFICATIONS, AND TEMPORARY SIGNALIZATION SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM. CONTRACTOR SHALL COORDINATE WITH THE COUNTY TRAFFIC ENGINEER PRIOR TO RELOCATION/ADJUSTMENT FOR APPROVAL.
29. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS. PAVEMENT MARKINGS HAVE BEEN LABELED AS NECESSARY.
30. TRAFFIC SHALL BE MAINTAINED ON PAVED SURFACES AT ALL TIMES.
31. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES FOR THE ENTIRE PROJECT.
32. CHANNELIZING DEVICES ERECTED ALONG SIDE STREETS, BUSINESS DRIVEWAYS, AND RESIDENTIAL DRIVEWAYS SHALL BE SPACED AT 10' CENTER-TO-CENTER ALONG THE RETURN RADIUS UNLESS OTHERWISE NOTED.
33. ALL TEMPORARY PAVEMENT SHALL UTILIZE A FIRM AND UNYIELDING BASE WITH 2" ASPHALT PAVEMENT. ALL TEMPORARY PAVEMENT SHALL ADHERE TO A PAVEMENT DESIGN FOR NEW CONSTRUCTION. TEMPORARY PAVEMENT SHALL BE REPAIRED AS NEEDED OR AS DIRECTED BY THE ENGINEER AND PAYMENT SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC LUMP SUM PAY ITEM.
34. STOP SIGNS ALONG SIDE STREETS AND/OR DRIVEWAYS SHALL BE MAINTAINED AND RELOCATED AS REQUIRED BY THE CONSTRUCTION PHASING.



REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHITEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS		TRAFFIC CONTROL PLANS GENERAL NOTES	SHEET NO. 40
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME	PROJECT NO.		
						LAKE PICKETT	CIP-2722		



**MAINTENANCE OF TRAFFIC  
PHASING NOTES**

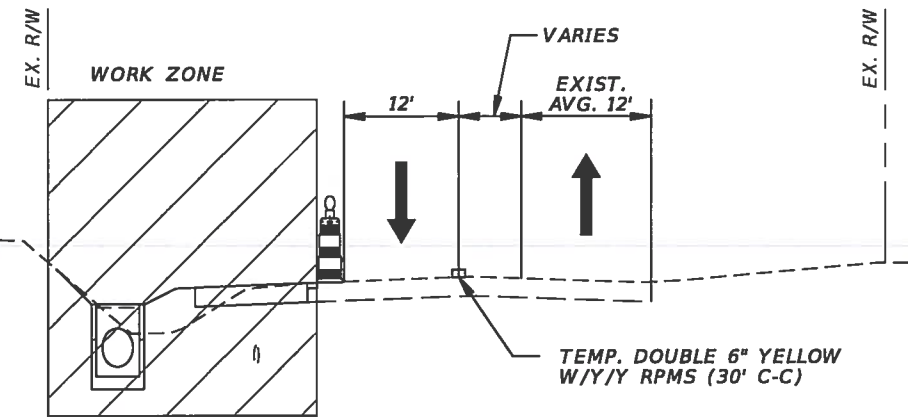
**PHASING NOTES:**

**PHASE 1**

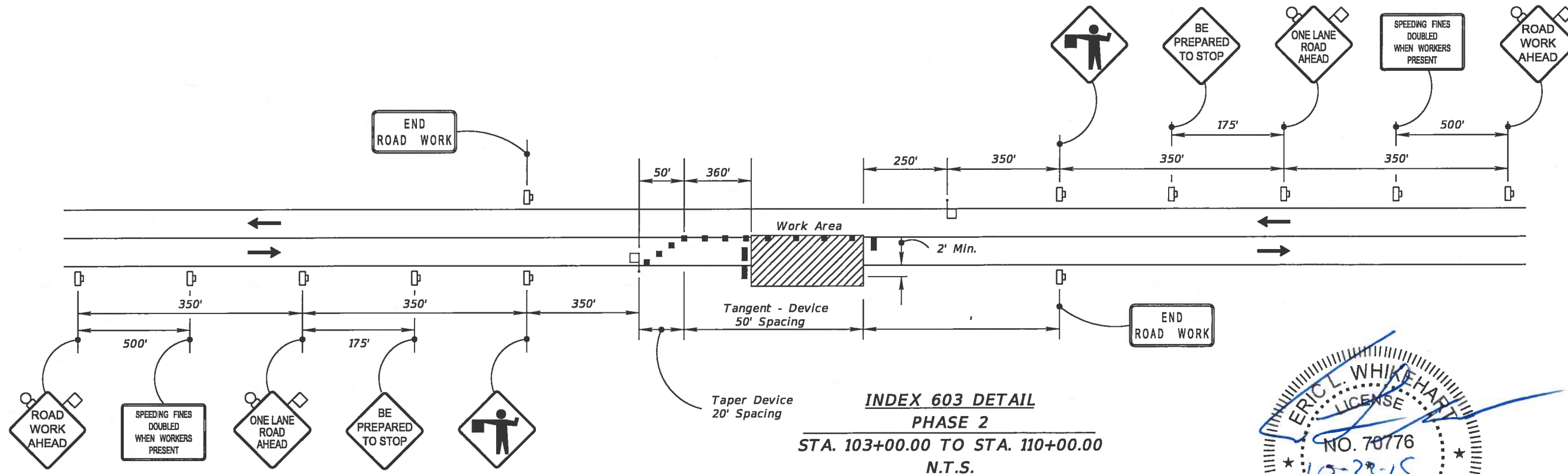
1. INSTALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN IN THE TRAFFIC CONTROL PLANS. CONTROL PEDESTRIAN TRAFFIC UTILIZING LATEST EDITION OF FDOT INDEX 660.
2. CONSTRUCT NORTHBOUND N. TANNER RD OUTSIDE WIDENING, WESTBOUND LAKE PICKETT RD OUTSIDE WIDENING (FROM STA. 104+71.61 TO 108+40.00), SIGNAGE AND DRAINAGE FEATURES AS SHOWN IN THE TRAFFIC CONTROL PLANS.
3. THE REGULATORY SPEED IS 45 MPH ALONG LAKE PICKETT ROAD AND 40 MPH ON NORTH TANNER ROAD.

**PHASE 2 (NO PLANS)**

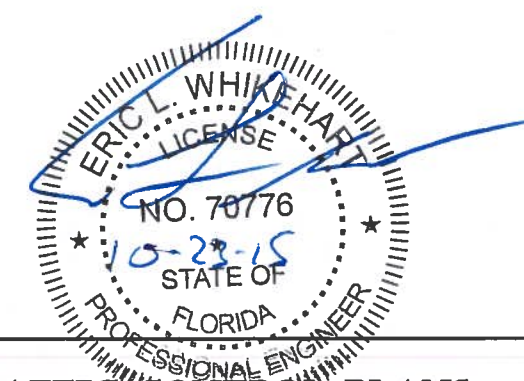
1. INSTALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN IN INDEX 603. CONTROL PEDESTRIAN TRAFFIC UTILIZING LATEST EDITION OF FDOT INDEX 660.
2. CONSTRUCT WESTBOUND LAKE PICKETT ROAD OUTSIDE WIDENING (FROM STA. 108+40.00 TO STA. 109+65.00). CONSTRUCT DRIVEWAY AT STATION 109+39 LT.
3. ADJUST SIGNAL HEADS PER SIGNALIZATION PLANS.
3. MILL AND RESURFACE PROJECT LIMITS PER CONSTRUCTION PLANS. INSTALL NEW SIGNAL LOOPS.
4. APPLY FINAL STRIPING.
5. THE REGULATORY SPEED IS 45 MPH ALONG LAKE PICKETT ROAD AND 40 MPH ON NORTH TANNER ROAD.



**TYPICAL SECTION  
PHASE 1  
STA. 104+71.61 TO STA. 108+40.00  
N.T.S.**



**INDEX 603 DETAIL  
PHASE 2  
STA. 103+00.00 TO STA. 110+00.00  
N.T.S.**



REVISIONS	
DATE	DESCRIPTION



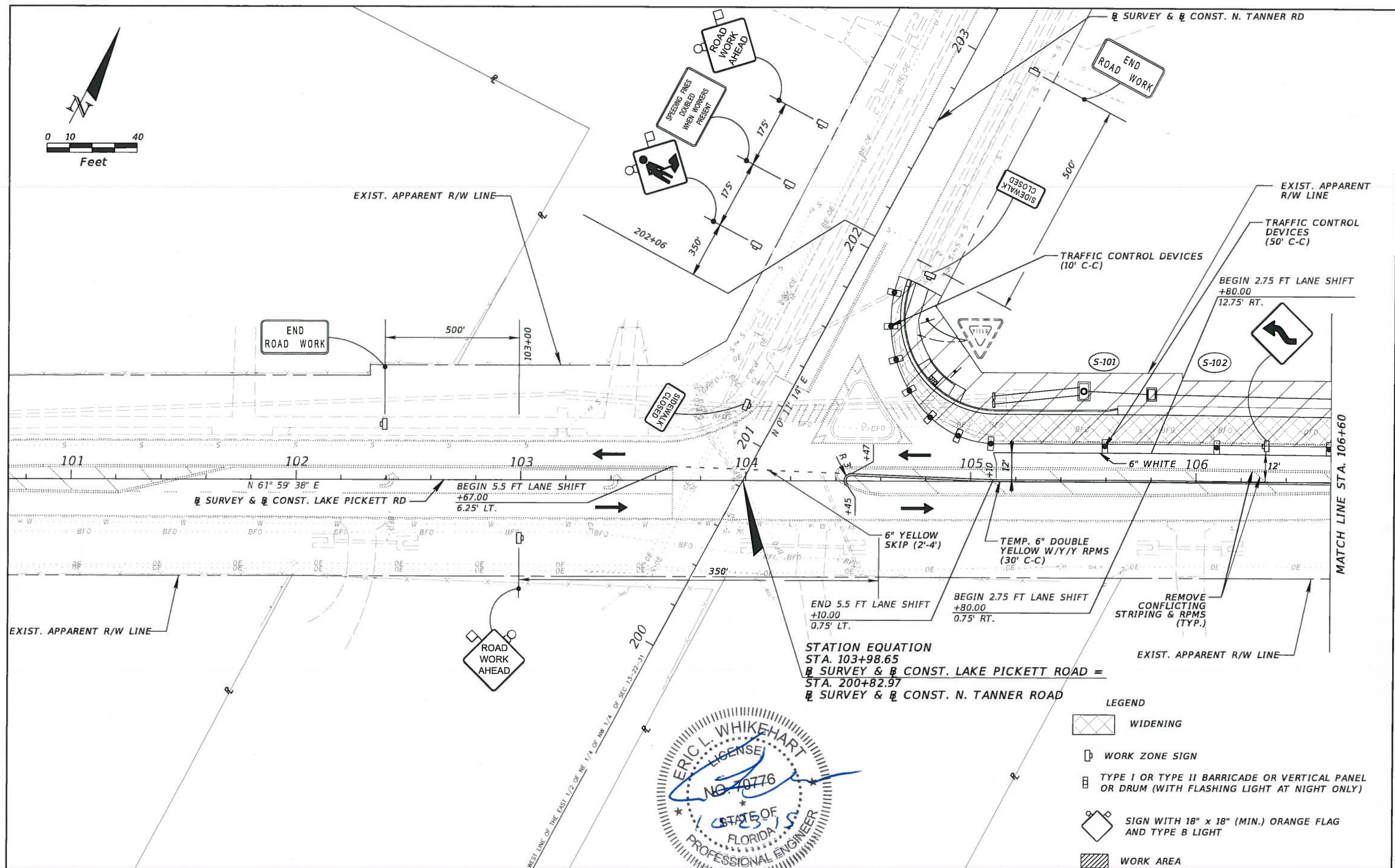
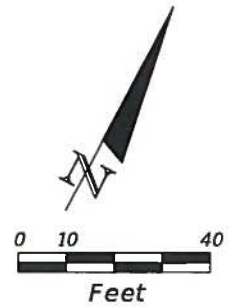
TLP ENGINEERING CONSULTANTS, INC  
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DESIGN PLANS FOR: <b>LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**TRAFFIC CONTROL PLANS  
PHASING NOTES**

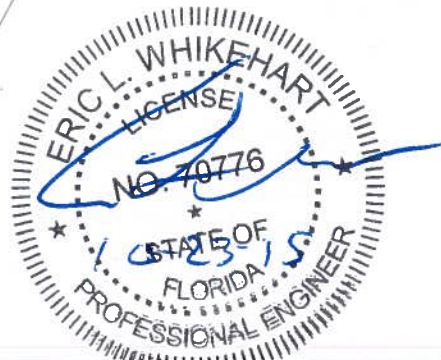
SHEET  
NO.  
**41**





STATION EQUATION  
 STA. 103+98.65  
 SURVEY & CONST. LAKE PICKETT ROAD =  
 STA. 200+82.97  
 SURVEY & CONST. N. TANNER ROAD

- LEGEND**
- WIDENING
  - WORK ZONE SIGN
  - TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH FLASHING LIGHT AT NIGHT ONLY)
  - SIGN WITH 18" x 18" (MIN.) ORANGE FLAG AND TYPE B LIGHT
  - WORK AREA



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

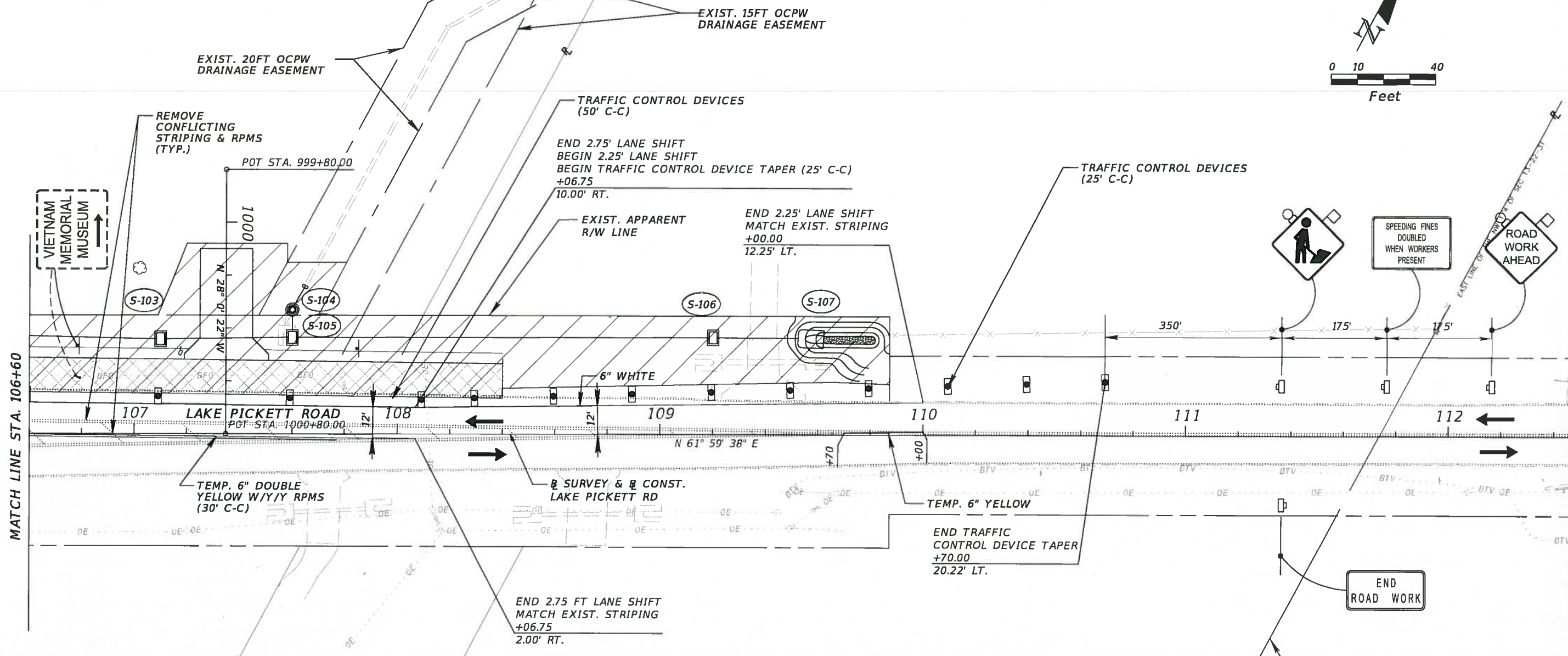
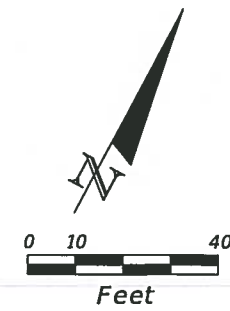
**ORANGE COUNTY GOVERNMENT**  
 TLP ENGINEERING CONSULTANTS, INC.  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHITEHART, P.E. 70776  
 CERT. OF AUTH. #27205

DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**TRAFFIC CONTROL PLANS  
 PHASE 1**

SHEET NO.  
42





MATCH LINE STA. 106+60

REMOVE CONFLICTING STRIPING & RPMS (TYP.)

POT STA. 999+80.00

N 28° 0' 22" W  
1000

S-103

S-104

S-105

S-106

S-107

LAKE PICKETT ROAD

POT STA. 1000+80.00

TEMP. 6" DOUBLE YELLOW W/Y/Y RPMS (30' C-C)

END 2.75 FT LANE SHIFT MATCH EXIST. STRIPING +06.75 2.00' RT.

SURVEY & CONST. LAKE PICKETT RD

6" WHITE

109

N 61° 59' 38" E

TEMP. 6" YELLOW

END TRAFFIC CONTROL DEVICE TAPER +70.00 20.22' LT.

TRAFFIC CONTROL DEVICES (25' C-C)

TRAFFIC CONTROL DEVICES (50' C-C)

END 2.75' LANE SHIFT  
BEGIN 2.25' LANE SHIFT  
BEGIN TRAFFIC CONTROL DEVICE TAPER (25' C-C) +06.75 10.00' RT.

END 2.25' LANE SHIFT MATCH EXIST. STRIPING +00.00 12.25' LT.

EXIST. APPARENT R/W LINE

EXIST. 20FT OCPW DRAINAGE EASEMENT

EXIST. 15FT OCPW DRAINAGE EASEMENT



SPEEDING FINES DOUBLED WHEN WORKERS PRESENT

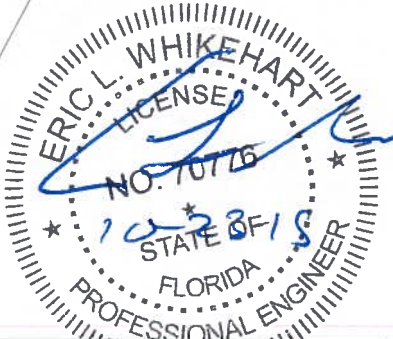


END ROAD WORK

QUARTER SECTION LINE

LEGEND

- WIDENING
- WORK ZONE SIGN
- TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH FLASHING LIGHT AT NIGHT ONLY)
- SIGN WITH 18" x 18" (MIN.) ORANGE FLAG AND TYPE B LIGHT
- WORK AREA



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

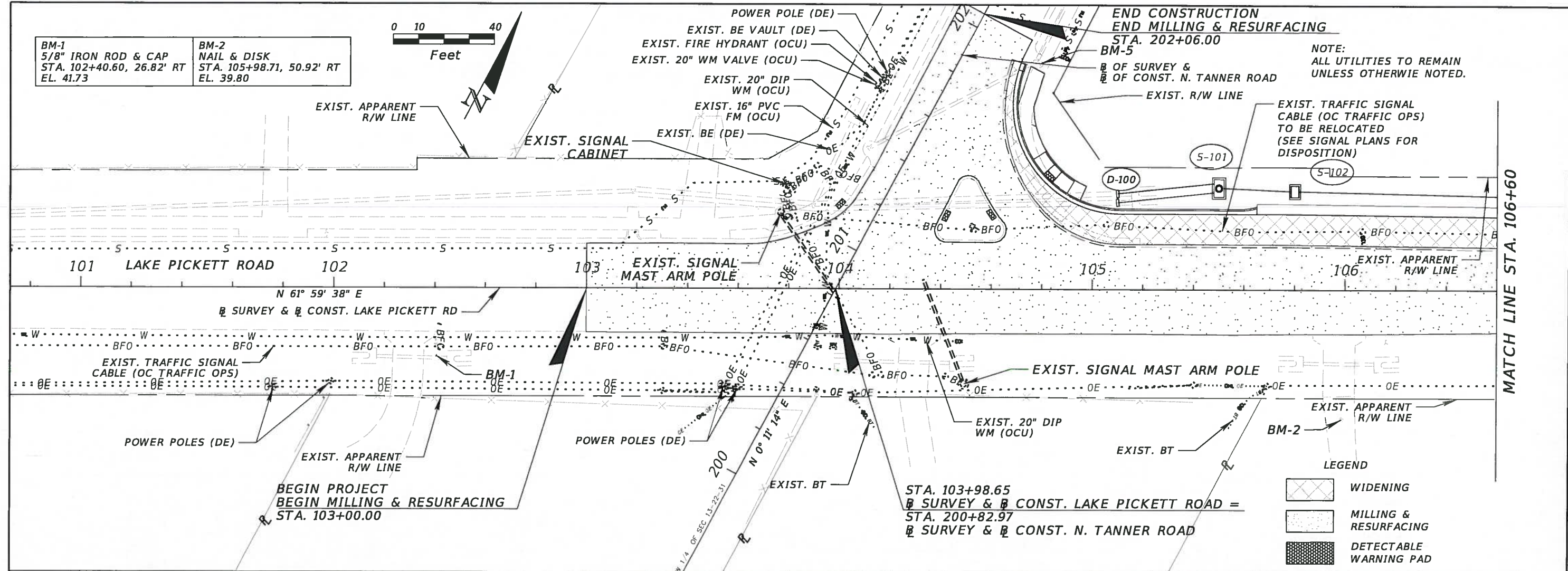
TRAFFIC CONTROL PLANS  
PHASE 1

SHEET NO.  
43



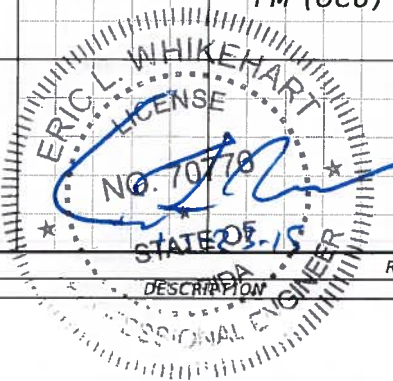
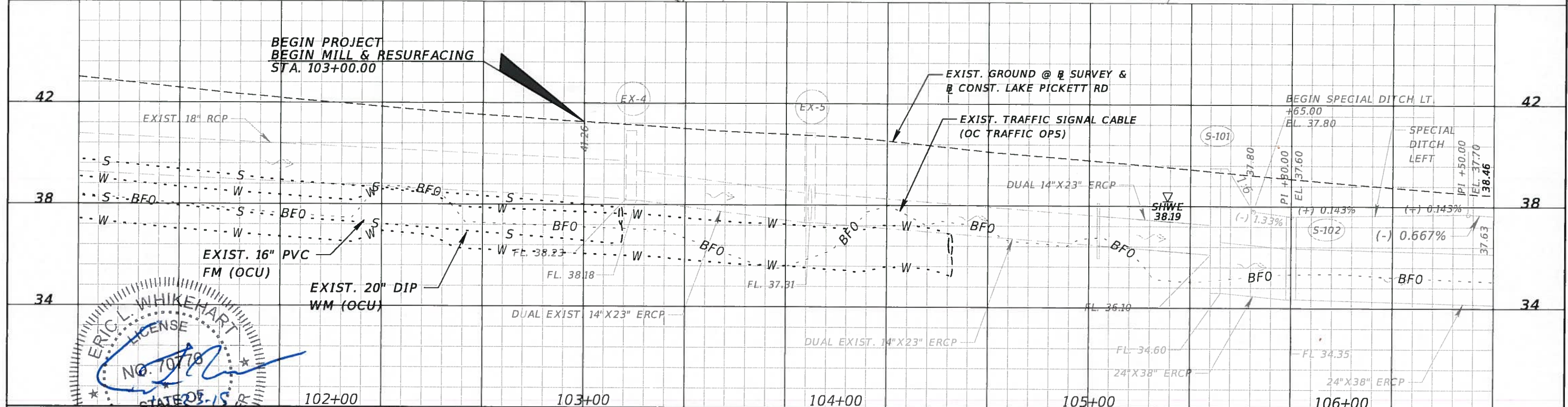
BM-1  
5/8" IRON ROD & CAP  
STA. 102+40.60, 26.82' RT  
EL. 41.73

BM-2  
NAIL & DISK  
STA. 105+98.71, 50.92' RT  
EL. 39.80



LEGEND

	WIDENING
	MILLING & RESURFACING
	DETECTABLE WARNING PAD



DATE	DESCRIPTION	DATE	DESCRIPTION

**ORANGE COUNTY GOVERNMENT**

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11486 CORPORATE BLVD., SUITE 151  
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PH. 407-901-5060  
ERIC L. WHIKEHART, P.E. 70776  
CERT. OF AUTH. #27205

DESIGN PLANS FOR: <b>LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS</b>	
PROJECT NAME	PROJECT NO.
<b>LAKE PICKETT</b>	<b>CIP-2722</b>

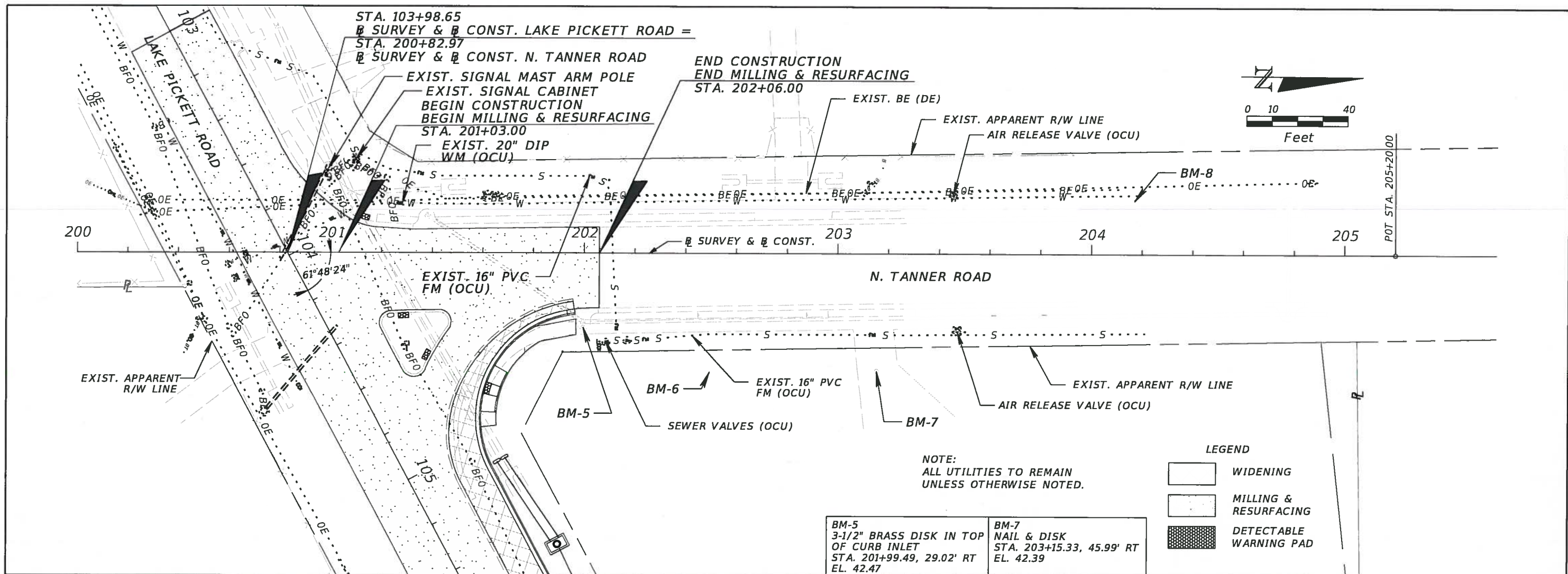
**UTILITY ADJUSTMENTS  
LAKE PICKETT ROAD**

SHEET NO.  
**44**

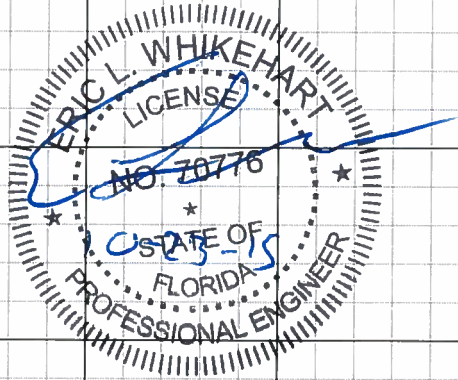
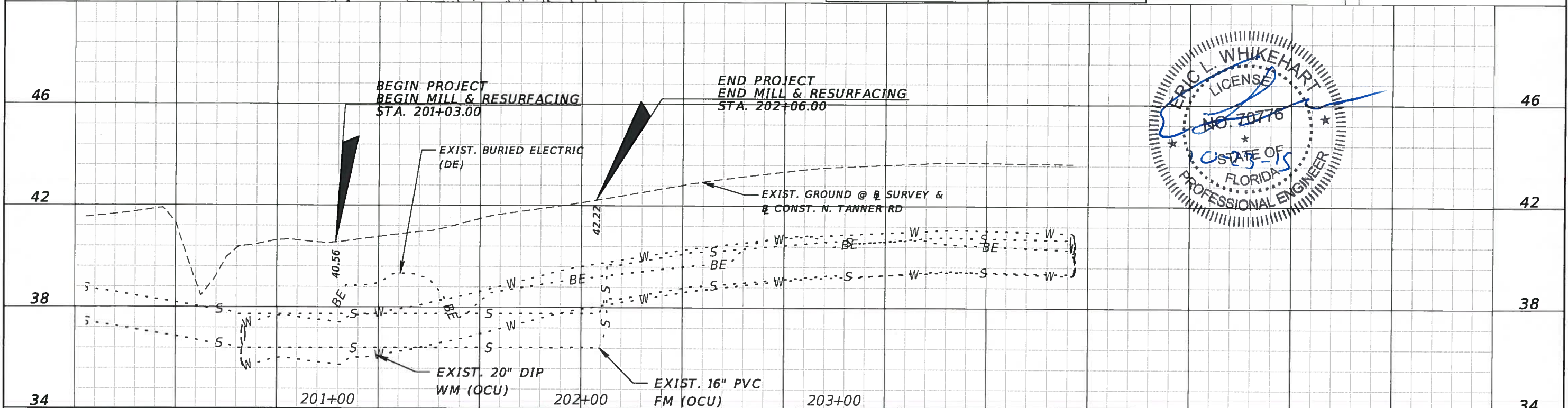








<b>BM-5</b> 3-1/2" BRASS DISK IN TOP OF CURB INLET STA. 201+99.49, 29.02' RT EL. 42.47	<b>BM-7</b> NAIL & DISK STA. 203+15.33, 45.99' RT EL. 42.39
--	--



REVISIONS	
DATE	DESCRIPTION


**TLP ENGINEERING CONSULTANTS, INC.**  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHITEHART, P.E. 70776  
 CERT. OF AUTH. #27205

DESIGN PLANS FOR:	
LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**UTILITY ADJUSTMENTS**  
**N. TANNER ROAD**

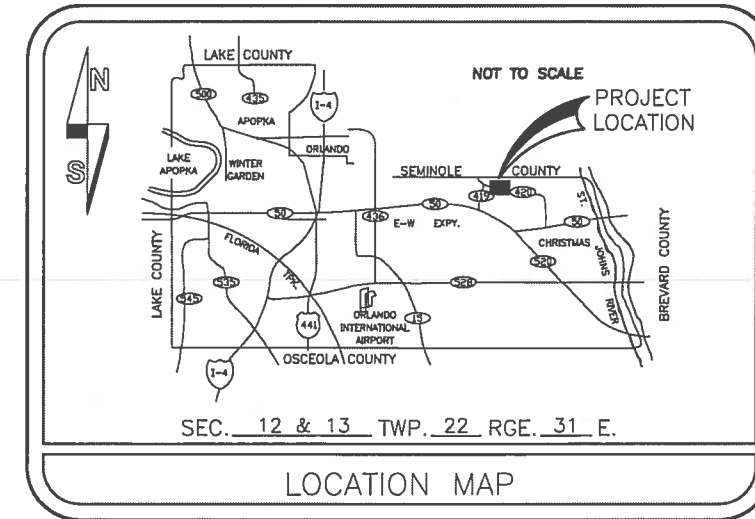
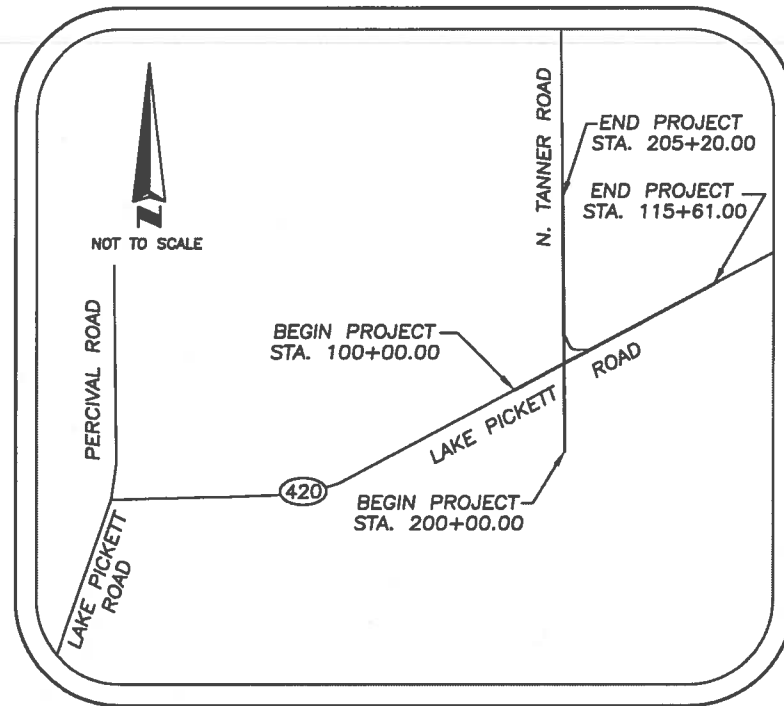
SHEET NO. 46



# LAKE PICKETT ROAD

PART OF SECTIONS 12 & 13, TOWNSHIP 22 SOUTH, RANGE 31 EAST  
ORANGE COUNTY, FLORIDA

**VICINITY MAP**



**LEGEND & ABBREVIATIONS**

- = NAIL W/ DISC
- = IRON ROD
- = IRON PIPE
- P.I. = POINT OF INTERSECTION
- Δ = DELTA
- STA. = STATION
- ID = IDENTIFICATION
- RT = RIGHT
- LT = LEFT
- NAD = NORTH AMERICAN DATUM
- NAVD = NORTH AMERICAN VERTICAL DATUM
- CR = COUNTY ROAD
- LB = LICENSED BUSINESS
- REF. PT. = REFERENCE POINT
- TRAV. PT. = TRAVERSE POINT
- SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION
- NGS = NATIONAL GEODETIC SURVEY

**DESCRIPTION:**

A portion of lands lying within Sections 12 and 13, Township 22 South, Range 31 South, Orange County, Florida.

**SURVEYOR'S REPORT:**

1. Measurement methods used for this survey meet MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING Chapter 5J-17.050-.052 requirements.
2. Not valid without the signature and raised seal of a Florida Licensed Surveyor and Mapper.
3. Features shown by symbol as indicated in the legend are not to scale.
4. Bearings and distances shown hereon are measured unless otherwise noted.
5. Bearings shown hereon are based on the Survey Baseline of Lake Pickett Road as being North 61°59'38" East as derived between station 100+00.00 and station 115+61.00.
6. The horizontal positions for all features shown on the map are relative to North American Datum, NAD 1983, 2011 adjustment, State Plane Coordinate System, Florida East Zone. Control points used for this survey are National Geodetic Survey, NGS points PID#AK0465 and PID#AK7138; distances shown are GRID distances.
7. Positional accuracy meets National Geodetic Survey, NGS Third Order, Class One, specifically 1:10,000, verified by redundant measurements.

**NOTICE OF LIABILITY:**

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without the expressed written consent of the Surveyor.

**SURVEYOR'S CERTIFICATION**

I hereby certify that this map, comprised of Sheets 1, 2 and 3, is true, accurate and complete to the best of my knowledge and belief. I further certify that said map is in compliance with the minimum technical standards set forth by the Florida board of Professional Land Surveyors in Chapter 5J-17.050-.052 Florida Administrative code pursuant to Section 472.027 Florida Statutes.

*James L. Petersen*  
Registered Land Surveyor No. 4791 04/13/2014  
Not Valid Without the signature and original raised seal of a Florida Licensed Surveyor and Mapper.

**TERESA JACOBS**

**COUNTY MAYOR**

**BOARD OF COUNTY COMMISSIONERS**

- S. SCOTT BOYD
- BRYAN NELSON
- PETE CLARKE
- JENNIFER THOMPSON
- TED EDWARDS
- VICTORIA P. SIPLIN

- DISTRICT 1
- DISTRICT 2
- DISTRICT 3
- DISTRICT 4
- DISTRICT 5
- DISTRICT 6

**NGS BENCHMARKS USED**

BENCHMARK  
S-78 RESET/AK0465 A BRASS DISK IN A CONCRETE MONUMENT 97' SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 50 AND 650' EAST OF THE INTERSECTION OF DEAN ROAD AND JUST SOUTH OF A RIDESHARE PARKING LOT. ELEVATION= 74.61' (NAVD88)

BENCHMARK  
GIS 172 AL STATES 1 BEING A BRASS DISK IN A CONCRETE MONUMENT 43' NORTHEAST OF A 12 INCH PINE TREE WITH A CRAIG A. SMITH NAIL AND DISK, 49' SOUTHWEST OF AN 8 INCH PINE TREE WITH A CRAIG A. SMITH NAIL AND DISK ELEVATION=70.32' (NAVD88)

SHEET 1 OF 3, NOT VALID WITHOUT SHEETS 2 & 3

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
11/5/14	BMD	UPDATED CONTROL ALONG BASELINE			



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info@southeasternsurveying.com  
SOUTHEASTERN SURVEYING &  
MAPPING CORP.



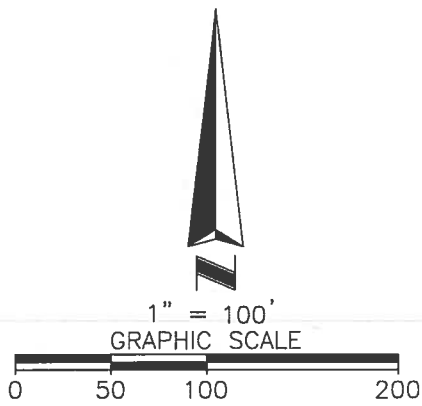
LAKE PICKETT ROAD

*CONTROL SURVEY*

SHEET NO.

CS-1





END SURVEY/CONSTRUCTION  
BASELINE  
N. TANNER ROAD  
STA: 205+20.00  
SET NAIL & DISC  
"SSMC LB 2108"  
N 1544626.53  
E 600969.38

SITE BENCHMARK-08  
STA: 204+16.80  
OFFSET: 20.99 LT  
SET NAIL & DISK  
"SSMC TBM"  
N 1544523.41  
E 600948.10  
ELEVATION=43.83

SET 5/8" IRON ROD & CAP  
"SSMC REF PT"

SITE BENCHMARK-07  
STA: 203+15.33  
OFFSET: 43.99 RT  
SET NAIL & DISK  
"SSMC TBM"  
N 1544421.72  
E 601014.71  
ELEVATION=42.39

SITE BENCHMARK-06  
STA: 202+49.33  
OFFSET: 48.75 RT  
SET 5/8" IRON ROD & CAP  
"SSMC TRAV. PT"  
N 1544355.72  
E 601015.25  
ELEVATION=42.07

SITE BENCHMARK-05  
STA: 201+99.49  
OFFSET: 29.02 RT  
FOUND ORANGE COUNTY  
3-1/2" BRASS DISK  
"S-1420-008"  
N 1544305.93  
E 600997.38  
ELEVATION=42.47

P.I.  
LAKE PICKETT RD  
STA: 111+00  
SET NAIL & DISC  
"SSMC LB 2108"  
N 1544518.84  
E 601587.17

SITE BENCHMARK-03  
STA: 108+80.60  
OFFSET: 44.84 LT  
SET 5/8" IRON ROD & CAP  
"SSMC TRAV. PT"  
N 1544453.33  
E 601372.68  
ELEVATION=37.98

END  
SURVEY/CONSTRUCTION  
BASELINE LAKE  
PICKETT ROAD  
STA: 115+61.00  
SET NAIL & DISC  
"SSMC LB 2108"  
N 1544735.31  
E 601994.19

SET NAIL & DISC  
"SSMC REF PT"

SET NAIL & DISC  
"SSMC REF PT"

N. TANNER ROAD  
SURVEY BASELINE/BASELINE OF CONSTRUCTION  
N00°11'14"E

WEST LINE OF THE EAST 1/2 OF NE 1/4 OF NW 1/4 OF SEC 13-22-31

SURVEY BASELINE/BASELINE OF CONSTRUCTION  
N61°59'38"E

LAKE PICKETT  
ROAD-CR 420

N 1/4 CORNER SECTION 13

EAST LINE OF THE NW 1/4 OF SEC 13-22-31

408.02'

S 00°14'59" W 5375.69'

4966.87'

P.I.  
N. TANNER RD  
STA: 200+82.97  
LAKE PICKETT RD  
STA: 103+98.65  
SET 5/8" IRON ROD & CAP  
"SSMC LB 2108"

SITE BENCHMARK-02  
STA: 105+98.71  
OFFSET: 50.92 RT  
SET NAIL & DISK  
"SSMC TBM"  
N 1544238.50  
E 601168.50  
ELEVATION=39.80

SET 5/8" IRON ROD & CAP  
"SSMC REF PT"

BEGIN SURVEY/ CONSTRUCTION  
BASELINE N. TANNER ROAD  
STA: 200+00  
SET 5/8" IRON ROD & CAP  
"SSMC LB 2108"  
N 1544106.54  
E 600967.69

SET 5/8" IRON  
ROD & CAP  
"SSMC REF PT"

SITE BENCHMARK-01  
STA: 102+40.60  
OFFSET: 26.82 RT  
SET 5/8" IRON ROD & CAP  
"SSMC TRAV. PT"  
N 1544091.82  
E 600841.01  
ELEVATION=41.73

BEGIN SURVEY/CONSTRUCTION  
BASELINE  
LAKE PICKETT ROAD  
STA: 100+00.00  
SET NAIL & DISC  
"SSMC LB 2108"  
N 1544002.32  
E 600615.99

SHEET 2 OF 3  
SEE SHEET 1 FOR NOTES,  
LEGEND AND DESCRIPTION  
NOT VALID WITHOUT SHEETS 1 & 3

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
11/5/14	BMD	UPDATED CONTROL ALONG BASELINE			



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LAKE PICKETT ROAD

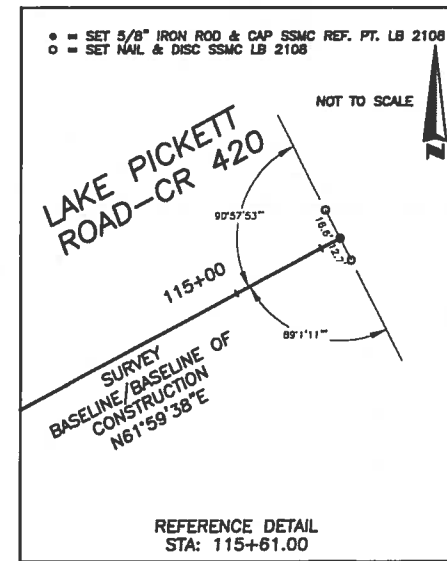
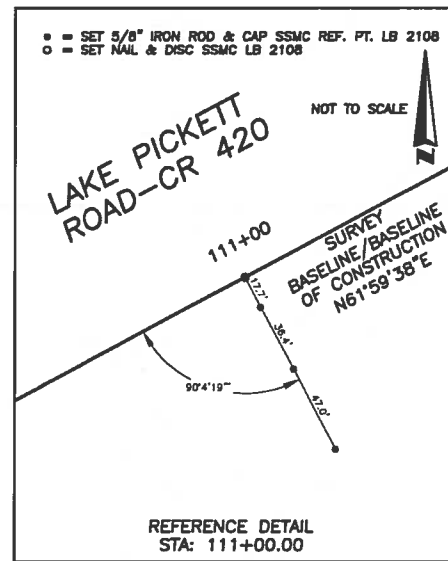
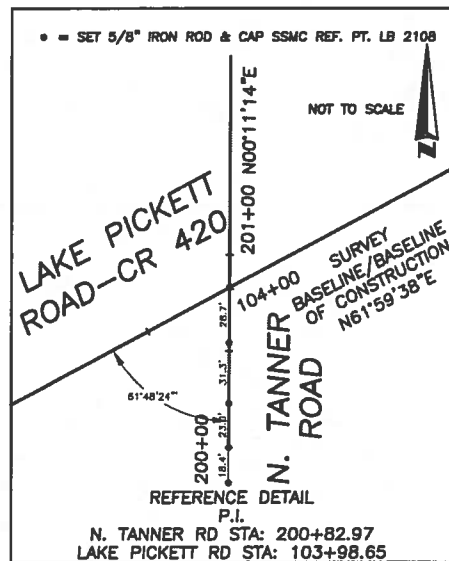
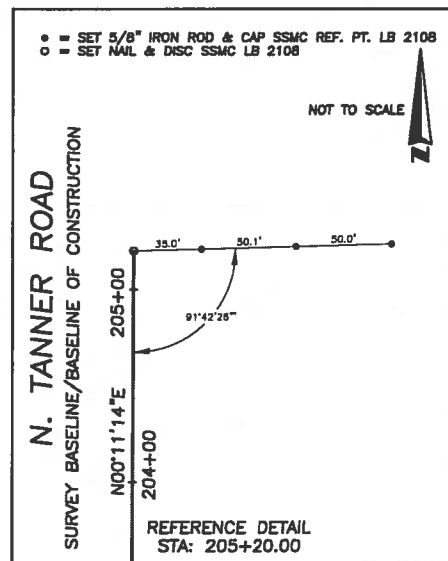
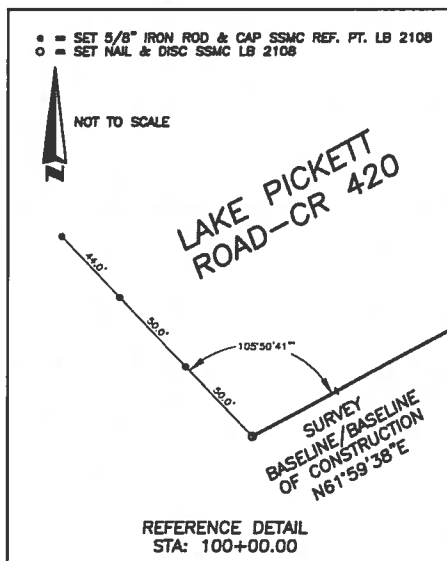
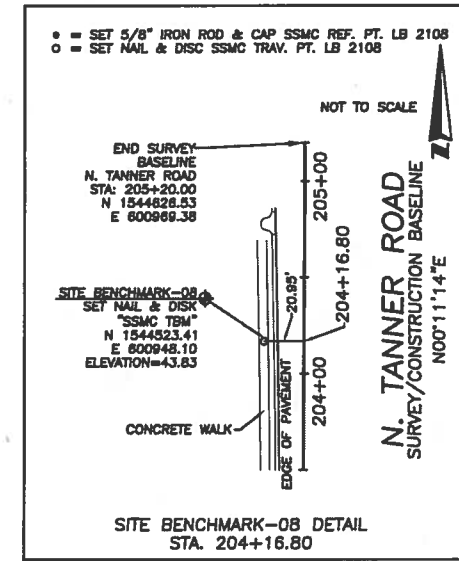
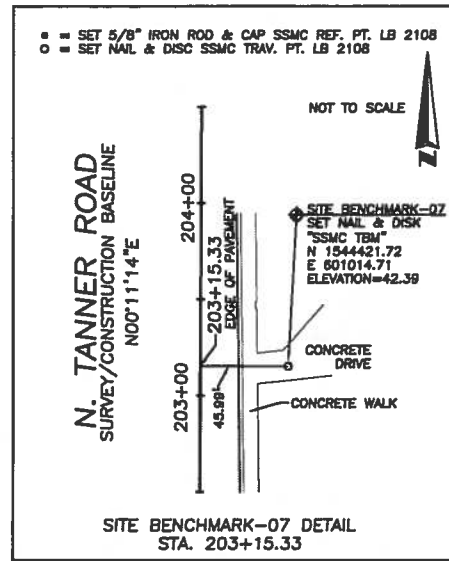
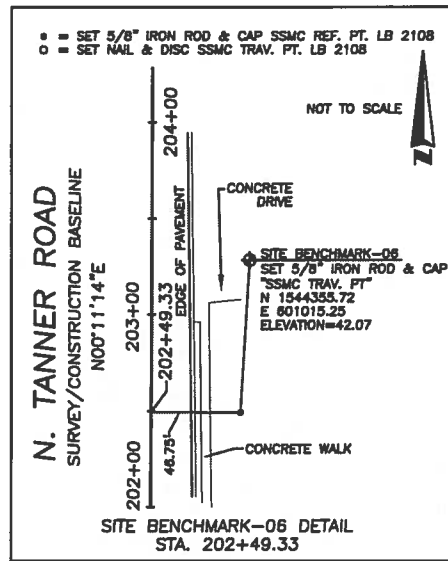
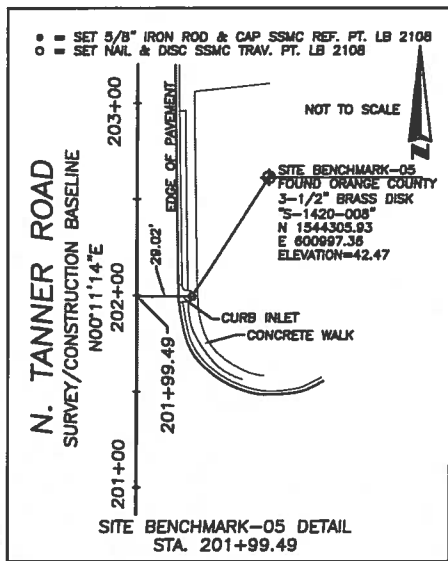
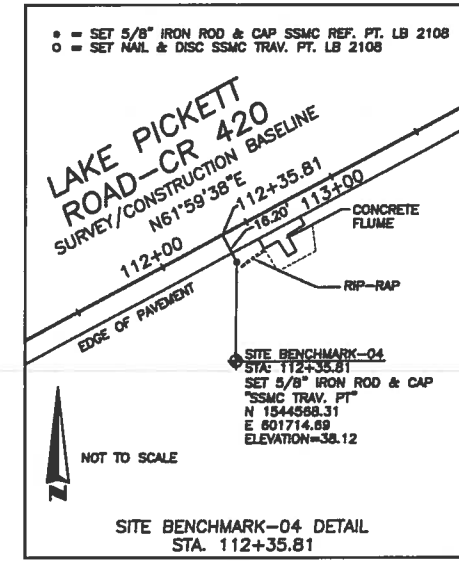
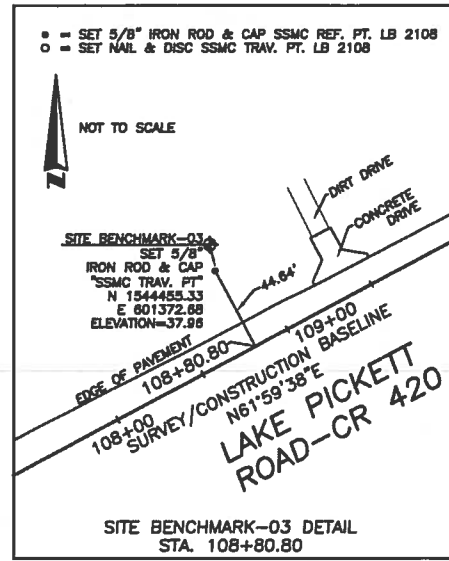
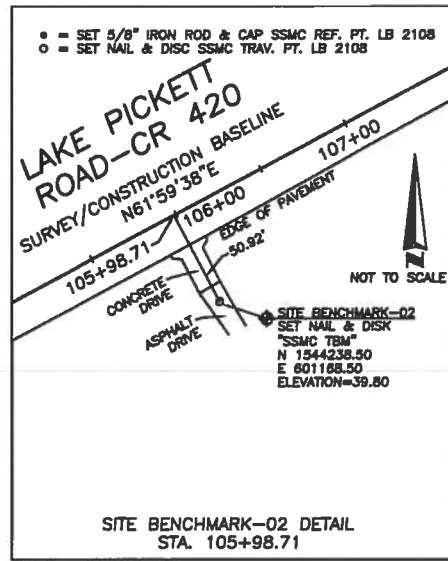
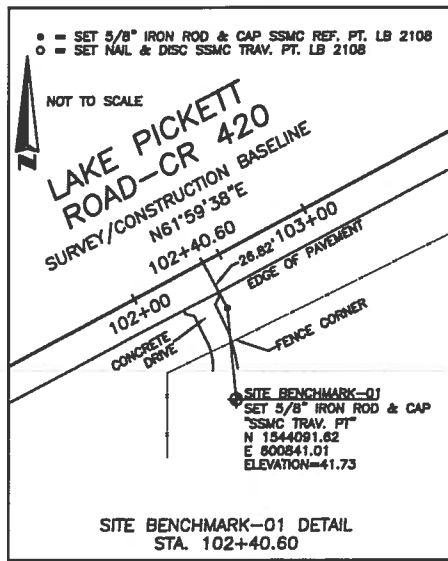
CONTROL SURVEY

SHEET  
NO.

CS-2

58138003.dwg





SHEET 3 OF 3 SEE SHEET 1 FOR NOTES, LEGEND AND DESCRIPTION NOT VALID WITHOUT SHEET 1 & 2

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
11/5/14	BMD	UPDATED CONTROL ALONG BASELINE			



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LAKE PICKETT ROAD

CONTROL SURVEY

SHEET NO.

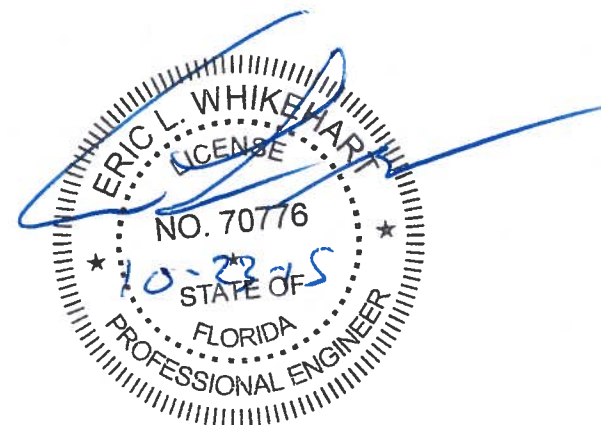
CS-3





**SIGNING & PAVEMENT MARKING GENERAL NOTES**

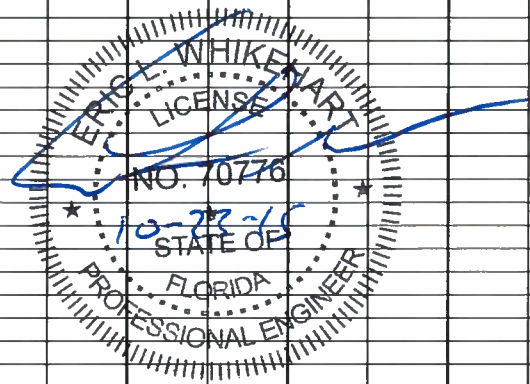
1. SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS, DATED 2014, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD ), 2009 EDITION.
2. SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE PROJECT ENGINEER. SIGNS SHALL BE REPLACED AT THEIR ORIGINAL LOCATIONS UNLESS OTHERWISE NOTED IN THE PLANS.
3. ALL EXISTING SIGNS TO BE REMOVED MUST BE FREE OF DAMAGE AND DELIVERED TO AN AREA DESIGNATED BY THE OWNER'S AUTHORIZED REPRESENTATIVE FOR PROPER STORAGE.
4. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE PROJECT MANAGER. SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ALL SURFACES SHALL BE CLEANED PRIOR TO THE START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
6. ALL PAVEMENT MARKINGS SHALL BE APPLIED BEFORE REELECTIVE PAVEMENT MARKERS ARE APPLIED.
7. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH HORIZONTAL CLEARANCES (CLEAR ZONES) AS SPECIFIED BY FDOT.
8. FOR REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS, REFER TO FDOT DESIGN STANDARDS. INDEX NO 17352.
9. BITUMINOUS ADHESIVE SHALL BE USED TO SET REFLECTIVE PAVEMENT MARKERS ON ALL ASPHALT PAVEMENTS.
10. CAUTION SHOULD BE EXERCISED IN THE INSTALLATION OF POST MOUNTED ROADSIDE SIGNS IN ORDER TO PREVENT DAMAGE TO BURIED UTILITIES. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION FOR UTILITY LOCATES AND PROTECTION.
11. IT SHALL BE THE THE CONTRACTOR'S RESPONSIBILITY TO RECORD AND REPLACE THE EXISTING PAVEMENT MARKINGS AND DELINEATORS UNLESS OTHERWISE NOTED IN THE PLANS. ALL MARKINGS AND DELINEATORS SHALL BE REPLACED AT THEIR ORIGINAL LOCATIONS UNLESS NOTED AS OTHERWISE IN THE PLANS.
12. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
13. SIGNS SHALL BE CONSTRUCTED WITH TYPE XI (DG3) REFLECTIVE SHEETING.
14. SIGN POSTS SHALL BE A MINIMUM 14 GAUGE 2' X 2' SQUARE WELDED STEEL WITH 3/8" KNOCKOUTS ON 1" CENTERS ON ALL FOUR SIDES. THE POSTS SHALL BE GALVANIZED AND SEALED WITH A POLYMER TOPCOAT.
15. IF THE CONTRACTOR USES SEGMENTAL TEMPLATES TO PLACE DIRECTIONAL ARROWS, OR PAVEMENT MESSAGES ALL SEGMENTS SHALL BE CLOSED TO FORM ONE-PIECE COMPONENTS PER STANDARD INDEX 17346.
16. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT LIMITS.
17. CROSSWALKS SHALL BE 10 WIDE UNLESS OTHERWISE SPECIFIED IN THE PLANS.



REVISIONS		ORANGE COUNTY GOVERNMENT FLORIDA	TLP ENGINEERING CONSULTANTS, INC. 11486 CORPORATE BLVD., SUITE 151 ORLANDO, FL. 32817 PH. 407-901-5060 ERIC L. WHIKEHART, P.E. 70776 CERT. OF AUTH. #27205	DESIGN PLANS FOR: LAKE PICKETT RD AT N. TANNER RD INTERSECTION IMPROVEMENTS		<b>SIGNING &amp; PAVEMENT MARKING GENERAL NOTES</b>	SHEET NO.
DATE	DESCRIPTION			DATE	DESCRIPTION		
					LAKE PICKETT		CIP-2722

# TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			S-4		S-5												PLAN	FINAL	PLAN	FINAL			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	2															2		2			
700-1-50	SINGLE POST SIGN, RELOCATE	AS	2															2		2			
706-3	RPM'S (WHITE/RED) & (YELLOW/YELLOW) TOTAL	EA	116		14													130		130			
*	(WHITE/RED)	EA	79		6													85		85			
*	(YELLOW/YELLOW)	EA	37		8													45		45			
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS																1		1			
711-11-111	THERMOPLASTIC, STANDARD, WHITE (6")	NM	0.308		0.175													0.483		0.483			
711-11-122	THERMOPLASTIC, STANDARD, WHITE (8")	LF	113		49													162		162			
711-11-123	THERMOPLASTIC, STANDARD, WHITE (12")	LF			125													125		125			
711-11-124	THERMOPLASTIC, STANDARD, WHITE (18")	LF	90		19													109		109			
711-11-125	THERMOPLASTIC, STANDARD, WHITE (24")	LF	35		113													148		148			
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGES	EA			1													1		1			
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA	6		1													7		7			
711-11-180	THERMOPLASTIC, STANDARD, WHITE (YIELD LINE)	LF			21													21		21			
711-11-211	THERMOPLASTIC, STANDARD, YELLOW, SOLID (6")	NM	0.441		0.027													0.468		0.468			
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID (18")	LF	176															176		176			



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

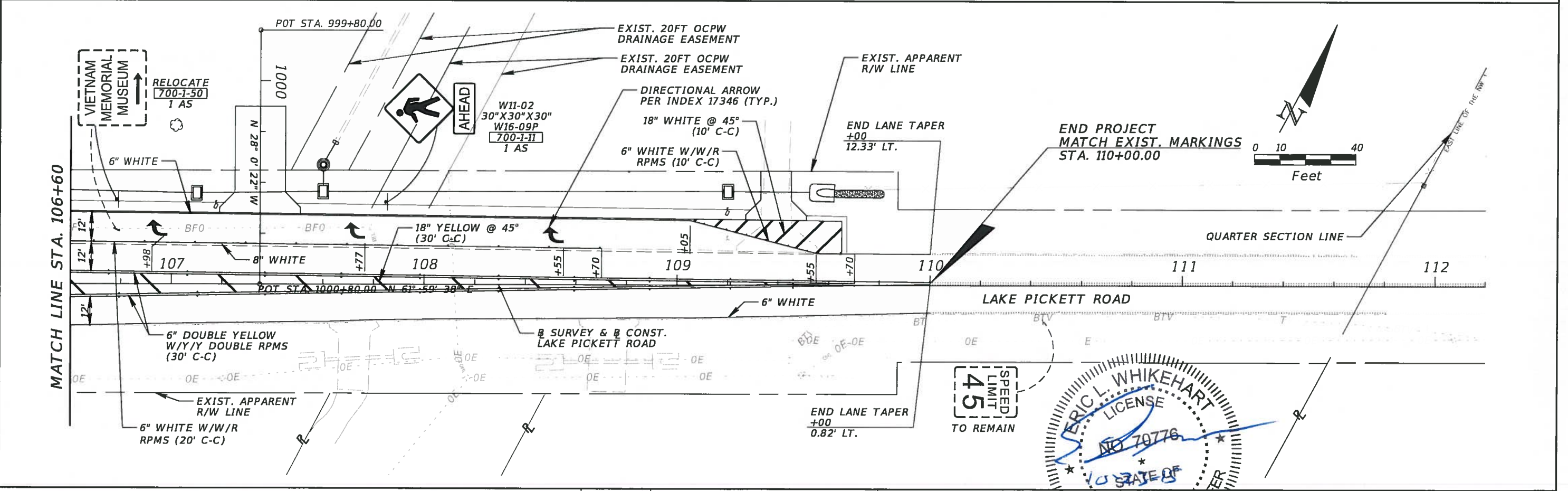
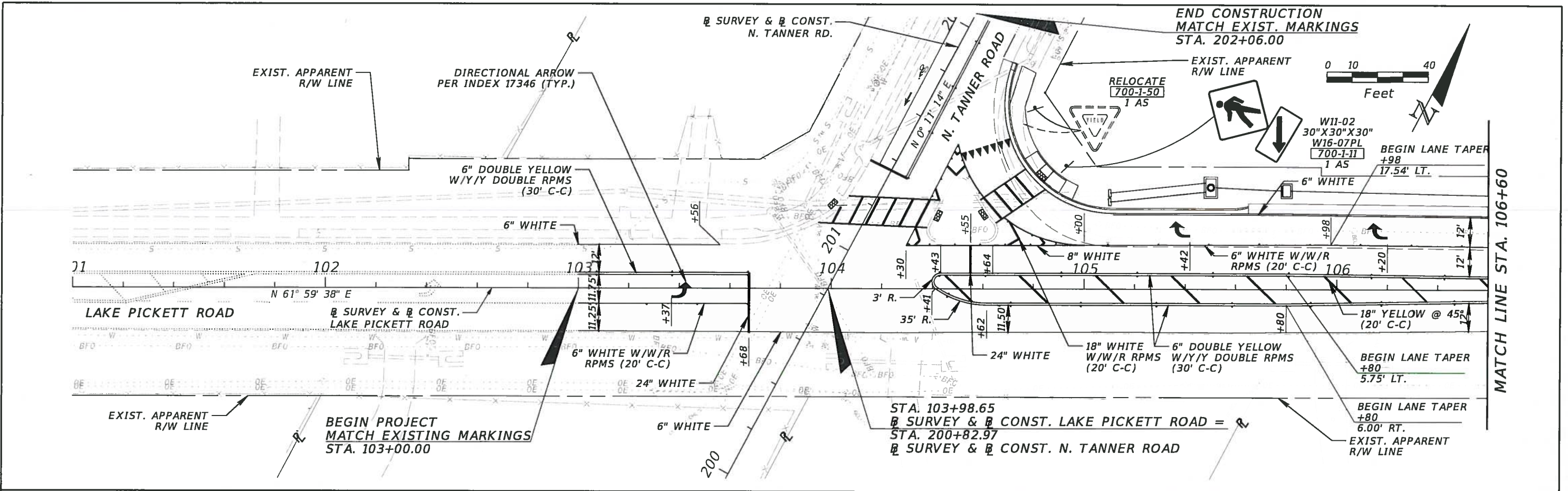
**TLP ENGINEERING CONSULTANTS, INC.**  
 11486 CORPORATE BLVD., SUITE 151  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
**ERIC L. WHITEHART, P.E. 70776**  
 CERT. OF AUTH. #27205

DESIGN PLANS FOR:	
LAKE PICKETT RD AT N. TANNER RD	
INTERSECTION IMPROVEMENTS	
PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

TABULATION OF QUANTITIES

SHEET NO.
S-3





REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ORANGE COUNTY GOVERNMENT FLORIDA

TLP ENGINEERING CONSULTANTS, INC.  
11486 CORPORATE BLVD., SUITE 151  
ORLANDO, FL 32817  
PH. 407-901-5060  
ERIC L. WHITEHART, P.E. 70776  
CERT. OF AUTH. #27205

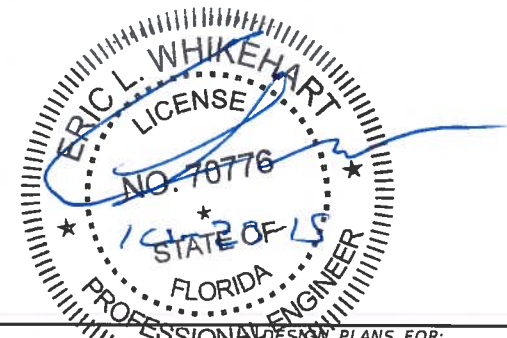
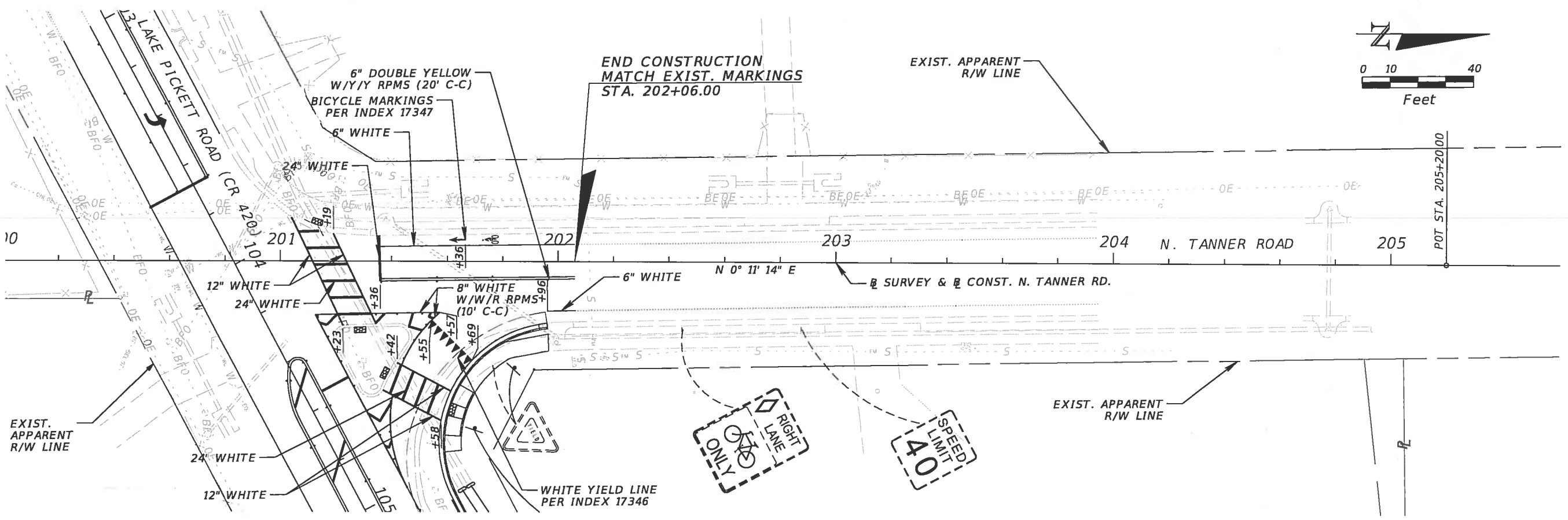
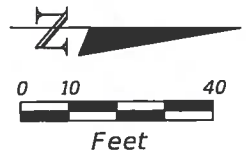
DESIGN PLANS FOR:  
**LAKE PICKETT RD AT N. TANNER RD**  
**INTERSECTION IMPROVEMENTS**

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

ERIC L. WHITEHART  
LICENSE NO. 70776  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

**ENGINEERING & PAVEMENT MARKING PLAN**

SHEET NO.
S-4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TLP ENGINEERING CONSULTANTS, INC. DESIGN PLANS FOR:  
 11486 CORPORATE BLVD., SUITE 100, BOCA RATON, FL 33433  
 ORLANDO, FL. 32817  
 PH. 407-901-5060  
 ERIC L. WHITEHART, P.E. 70776  
 CERT. OF AUTH. #27205

PROJECT NAME	PROJECT NO.
LAKE PICKETT	CIP-2722

**SIGNING & PAVEMENT  
MARKING PLAN**

SHEET NO.  
S-5









1. THE SIGNALIZATION PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FDOT'S DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, DATED 2014. GOVERNING SPECIFICATIONS ARE THE STATE OF FLORIDA, 2014 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND SUPPLEMENTS THERETO IF NOTED IN SPECIAL PROVISIONS FOR THIS PROJECT.

2. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.

3. WHENEVER SIGNAL WORK IS BEING PERFORMED AT AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT, INSTALLING LOOPS AND RUNS) WHERE A LANE IS CLOSED AN OFF-DUTY LAW ENFORCEMENT OFFICER SHALL DIRECT TRAFFIC. THE COST OF THE OFF-DUTY LAW ENFORCEMENT OFFICER SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.

4. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN 30 FEET (9 METERS) OF THE ROADWAY CARRYING TRAFFIC. IF THE ABOVE IS NOT POSSIBLE, A STORAGE AREA WITH PROPER DELINEATION AND ADVANCED WARNING SHALL BE USED WITH THE APPROVAL OF THE ENGINEER.

5. AT THE TIME OF FINAL PROJECT INSPECTION THE CONTRACTOR SHALL FURNISH TO THE INSPECTOR THREE COMPLETE SETS OF AS-BUILT PLANS. ONE SET SHALL BE LEFT IN THE CABINET FOR THE LOCAL MAINTAINING AGENCY, ORANGE COUNTY.

6. THE CONTRACTOR SHALL HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A MAXIMUM OF TWO HOURS RESPONSE TIME.

7. THE CONTRACTOR SHALL NOTIFY ORANGE COUNTY TRAFFIC OPERATIONS (407-836-7890) AT LEAST 24 HOURS IN ADVANCE OF INSTALLING UNDERGROUND CONDUIT SO THAT THESE OPERATIONS MAY BE OBSERVED.

8. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.

9. ALL CONDUIT SHALL BE SCHEDULE 40, 2 INCH (5 CM) DIA. MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.

10. ALL ENDS OF CONDUITS IN PULL BOXES AND CABINETS SHALL BE SEALED WITH ELECTRICAL PUTTY AFTER WIRING IS COMPLETE.

11. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 7 FEET (2.1 METERS) FROM THE EDGE OF PAVEMENT.

12. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.

13. UNDER NO CIRCUMSTANCES SHALL ENERGIZED CABLE BE PLACED IN THE SAME CONDUIT OR PULL BOX AS LOOP LEAD-IN CABLE.

14. ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP DESIGNED TO PROVIDE A FIRM HOLD ON THE EXTERIOR COVERING OF THE CABLE. A WINCH WITH A SLOP CLUTCH SHALL BE USED TO INSURE THAT THE ALLOWABLE TENSION UNIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.

15. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.

16. ANY EXISTING LOOPS DAMAGED DURING CONSTRUCTION THAT ARE LABELED TO BE MAINTAINED SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. TEMPORARY DETECTION WILL BE REQUIRED WHENEVER REPAIRS CANNOT BE MADE IN A TIMELY FASHION.

17. THE CONTRACTOR SHALL NOTIFY ORANGE COUNTY TRAFFIC OPERATIONS (407-836-7890) AT LEAST 24 HOURS IN ADVANCE OF LOOP CUTTING SO THAT COUNTY PERSONNEL MAY CHAULK THE LOOPS AND OBSERVE THEIR INSTALLATION.

18. ALL TYPE F LOOPS SHALL BE 6 FEET WIDE BY 40 FEET LONG AND EXTEND 10 FEET BEYOND THE STOP BAR UNLESS OTHERWISE NOTED IN THE PLANS.

19. ALL DETECTOR LOOPS OR SYSTEM SENSORS SHALL BE CUT ONTO THE ASPHALTIC CONCRETE STRUCTURAL COURSE WHENEVER POSSIBLE. ALL LOOP LEAD-IN CABLES SHALL BE PLACED IN CONDUIT. LOOP LEAD-IN CABLE SHALL NOT EXIST THE ROADWAY WITHIN THE CORNER RADIUS AT AN INTERSECTION.

20. EACH LOOP SHALL BE TREATED AS AN INDIVIDUAL LOOP WITH SEPARATE LEAD-INS FROM SPLICE POINT TO CABINET TERMINAL.

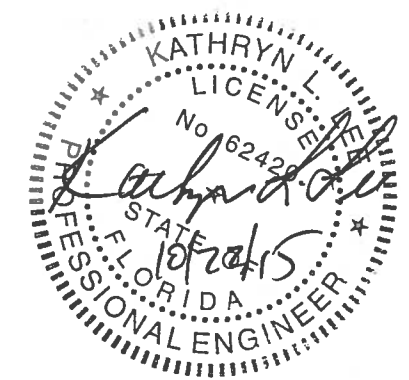
21. SHIELDED WIRING SHALL BE USED FOR ALL LOOP LEAD-IN CABLE FROM THE LOOP SPLICE POINT TO THE CABINET TERMINAL.


22. THE CONTRACTOR SHALL USE BELDON TYPE 9438 ROADWAY LOOP WIRE, OR EQUIVALENT TYPE XHHW HIGH DENSITY CROSSLINKED POLYETHYLENE INSULATED WIRE RATED 600 VOLTS.

23. SECTION 660-3.2 OF THE FDOT SPECIFICATIONS IS MODIFIED TO REQUIRE THAT ALL SAWCUTS FOR LOOP INSTALLATION SHALL BE CLEARED OF DUST, DIRT AND OTHER DEBRIS WITH A VACUUM CLEANER PRIOR TO THE INSTALLATION OF LOOP WIRE OR LEAD-IN CABLE. ALL SAWCUTS SHALL BE SEALED WITH AN APPROVED FLEXIBLE EPOXY.

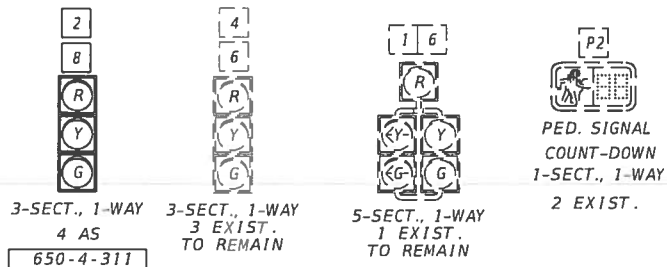
24. SECTION 660-3.2 OF THE FDOT SPECIFICATIONS IS MODIFIED TO PROHIBIT THE USE OF TYPE III STEEP ASPHALT OR COAL TAR BASE CEMENT TO SEAL TRAFFIC DETECTOR LOOPS.

25. IN THE EVENT PERMANENT VEHICLE DETECTION DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.

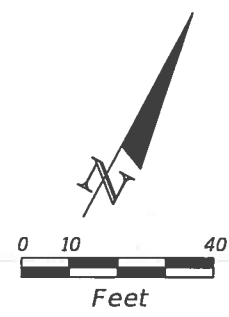


REVISIONS				 KATHRYN L. LEE, P.E. P.E. LICENSE NUMBER 62420 GMB ENGINEERS & PLANNERS, INC. 2602 E. LIVINGSTON STREET ORLANDO, FL 32803 CERTIFICATE OF AUTHORIZATION 8155	DESIGN PLANS FOR: INTERSECTION IMPROVEMENTS LAKE PICKETT RD AT N. TANNER RD		SHEET NO.  T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT NO.	
					LAKE PICKETT	CIP-2722	GENERAL NOTES

**SIGNAL HEAD DETAIL**

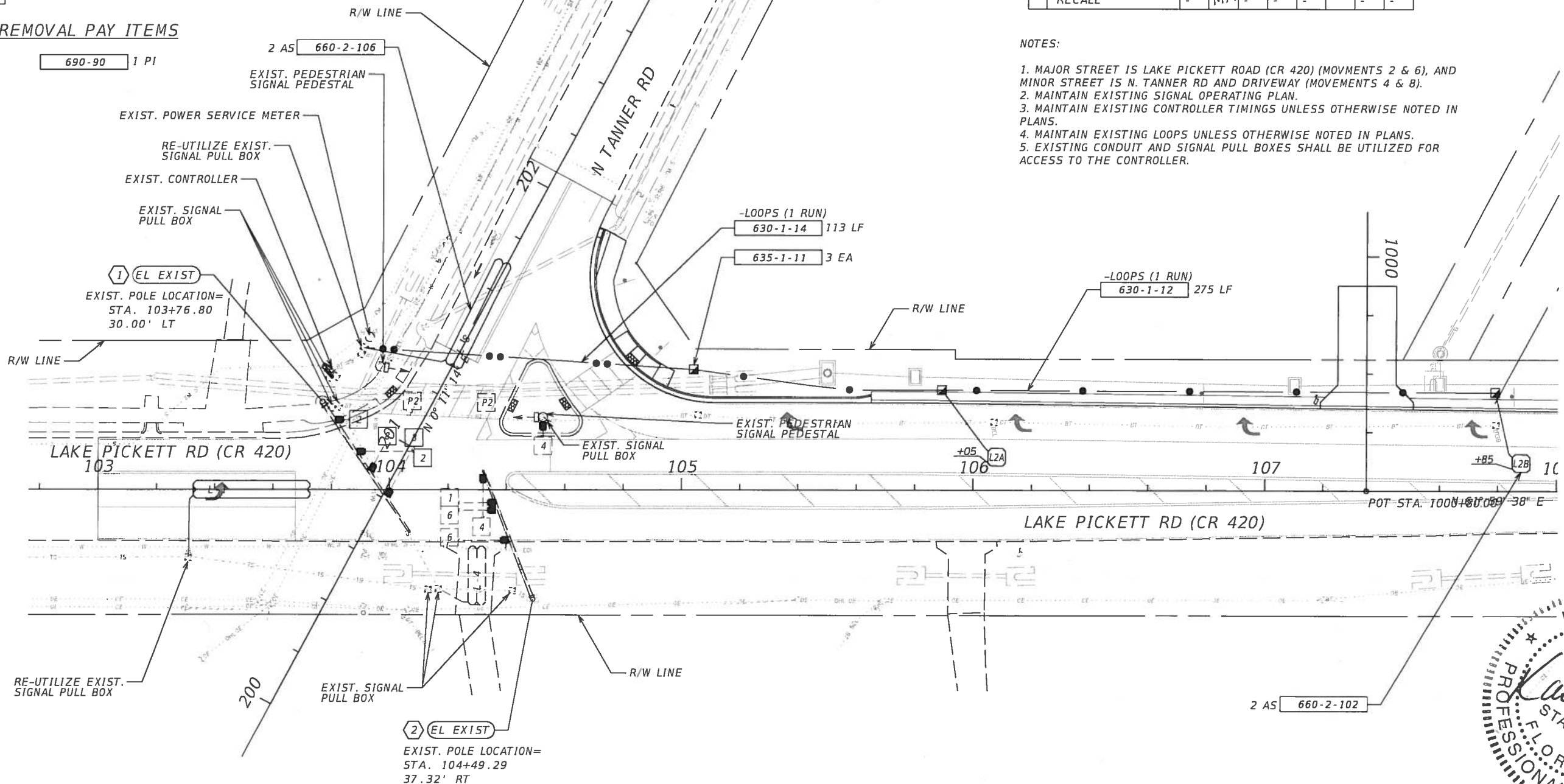


CONTROLLER TIMINGS							
TIMING FUNCTION							
MOVEMENT NUMBER	1	2	4	6	8		
MINIMUM GREEN							
EXTENSION				EXISTING			
MAXIMUM GREEN 1			MAINTAIN				
MAXIMUM GREEN 2							
YELLOW CLEARANCE	4.8	4.8	3.4	4.8	4.4		
ALL RED	2.0	2.0	2.0	2.0	2.7		
PEDESTRIAN WALK				EXISTING			
PEDE. CLEARANCE							
RECALL		MAINTAIN					



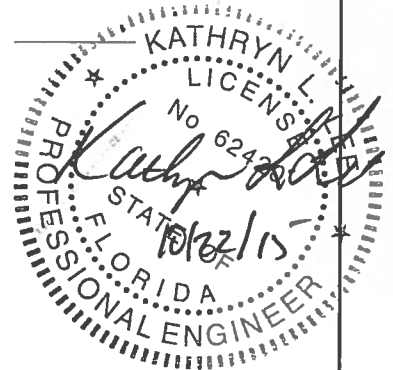
**REMOVAL PAY ITEMS**

690-90 1 PI



**NOTES:**

1. MAJOR STREET IS LAKE PICKETT ROAD (CR 420) (MOVMENTS 2 & 6), AND MINOR STREET IS N. TANNER RD AND DRIVEWAY (MOVEMENTS 4 & 8).
2. MAINTAIN EXISTING SIGNAL OPERATING PLAN.
3. MAINTAIN EXISTING CONTROLLER TIMINGS UNLESS OTHERWISE NOTED IN PLANS.
4. MAINTAIN EXISTING LOOPS UNLESS OTHERWISE NOTED IN PLANS.
5. EXISTING CONDUIT AND SIGNAL PULL BOXES SHALL BE UTILIZED FOR ACCESS TO THE CONTROLLER.



REVISIONS				ORANGE COUNTY GOVERNMENT FLORIDA	KATHRYN L. LEE, P.E. P.E. LICENSE NUMBER 62420 GMB ENGINEERS & PLANNERS, INC. 2602 E. LIVINGSTON STREET ORLANDO, FL 32803 CERTIFICATE OF AUTHORIZATION 8155	DESIGN PLANS FOR: INTERSECTION IMPROVEMENTS LAKE PICKETT RD AT N. TANNER RD		SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME LAKE PICKETT	PROJECT NO. CIP-2722	

**PLAN SHEET**



