

WATERMAIN GATE VALVE & LINE STOP TABLE

ID Number	Plan Sheet #	Easting	Northing	Elevation	Valve Type	Main Type	Valve Size	Valve Manufacturei	Valve Model #	# of Turns to Close	Gear Actuator	Gear Ratio	Side Actuator	Actuator Manufacture	Comments
															,
WGV-1	26A				Gate	Water Main	12"								
WGC-2	26A				Gate	Water Main	12"								
WLS-1	26A				Line Stop	Water Main	12"								
WLS-2	26A				Line Stop	Water Main	12"								
															1

WATERMAIN FITTING TABLE

ID Number	Plan Sheet #	Easting	Northing	Elevation	Main Type	Fitting Type	Comments
WMF-1	26A				Water Main	Tapping Sleeve	
WMF-2	26A				Water Main	Bend 45°	
WMF-3	26A				Water Main	Bend 45°	
WMF-4	26A				Water Main	Sleeve	
WMF-5	26A				Water Main	Bend 45°	
WMF-6	26A				Water Main	Bend 45°	
WMF-7	26A				Water Main	Tapping Sleeve	

WATERMAIN PIPE TABLE

ID Number	Plan Sheet #	Easting	Northing	Elevation	Main Type	Type of Shot	Construction Method	Material	Pressure Class	Manufacturer	Comments
W-STA-9+50	26A				Water main	Shot on Pipe	Open Cut	PVC			
W-STA-10+00	26A				Water main	Shot on Pipe	Open Cut	PVC			
W-STA-10+50	26A				Water main	Shot on Pipe	Open Cut	PVC			

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DATE	DESCRIPTION	DATE	DESCRIPTION	•
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98 South Semoran Blvd, Orlando, FL 32807 Phone Number - 407.380.0402 Claude L. Cassagnol, P.E. P.E. Number 35490 Certificate of Authorization Number 6758

GTC Engineering Corporation ORANGE COUNTY PUBLIC WORKS OCPW PROJECT NO. GTC PROJECT NO. AVALON PARK BLVD. SAFETY IMPROVEMENTS

FLO 20.15

ORANGE COUNTY UTILITIES ASSET TABLES

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DATE: February 11, 2011

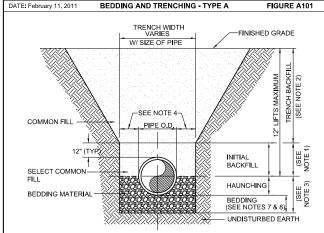
FIGURE GN

OCU GENERAL NOTES:

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY
- 2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST SEVEN DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407)
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION BY CALLING (407) 254-9798.
- THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL.
- ALL OCU MAINS AND FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
- THE CONTRACTOR: AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO OCU MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY OCU, OCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH
- 8. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS.
- ONLY OCU SHALL OPERATE OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE
- 10. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE.

- 11. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS.
 THE CONTRACTOR SHALL SUBMIT A BYPASS PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
- 12. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
- 13. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH A BACKELOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCEMAIN SHALL ALSO BE EQUIPPED WITH A BACKFLOW PREVENTER.
- 14. FOR PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, NO PIPE BENDING IS ALLOWED. THE MAXIMUM ALLOWABLE TOLERANCE FOR JOINT DEFLECTION IS 0.75 DEGREES (3-INCHES PER JOINT PER 20 FT STICK OF PIPE.) ALIGNMENT CHANGE SHALL BE MADE ONLY WITH SLEEVES AND FITTINGS.
- 15 FOR NON-PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
- 16 THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL DATED FEBRUARY 11, 2011 IS INCORPORATED BY REFERENCE INTO THESE DOCUMENTS. CONTRACTOR SHALL BE AWARE THAT ADHERENCE TO STANDARDS IN THE COUNTY MANUAL AND AS DESCRIBED HERE IN SHALL BE REQUIRED SHOULD ANY CONFLICTING INFORMATION EXIST BETWEEN ANY DOCUMENTS, THEN THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATION MANUAL SHALL APPLY. ORANGE COUNTY STANDARDS ARE AVAILABLE FOR DOWNLOAD AT: HTTPS://WWW.OCFL.NET/PLANNINGDEVELOPMENT/UTILITIESPLANNINGANDCONSTRUCTION.ASPX
- 17. CONTRACTOR TO PROVIDE SIGNED AND SEALED AS-BUILTS BY A STATE OF FLORIDA LICENSED SURVEYOR, CONTRACTOR SHALL ADHERE TO SECTION 1720 OF THE ORANGE COUNTY MASTER CIP TECHNICAL SPECIFICATIONS FOUND AT: /W.OCFL.NET/WATERGARBAGERECYCLING/UTILITIESCAPITALIMPROVEMENTPROGRAM.ASP.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL



STANDARD DRAWING

GENERAL

APPENDIX A

- OILS. I INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE
- MAXIMUM DENSITY AS PER AASHTO T-180.
- . TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
 . 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE
- DIAMETER 24" AND LARGER
- . WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 . ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE
- BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR
- PIPE DIAMETER 16" AND LARGER.
 DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING
- ROCK BELOW THE PIPE, UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF
- UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
 FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RW LITH IZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

GENERAL APPENDIX A STANDARD DRAWING ATE: February 11, 2011 BEDDING AND TRENCHING - TYPE B FIGURE A102 TRENCH WIDTH VARIES FINISHED GRADE W/ SIZE OF PIPE SEE NOTE COMMON FILL PIPE O.D. BACKFILL SELECT COMMON-HAUNCHING UNDISTURBED EARTH (SEE NOTE 3)

1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.

- 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.

 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE
- WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY
- UTILITIES.

 4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE
- DIAMETER 24" AND LARGER.
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE
- 7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A

GENERAL

STANDARD DRAWINGS DATE: February 11, 201 RESTRAINED PIPE TABLE FIGURE A104-1 WATER AND RECLAIMED WATER MAINS

		PIPE SIZE									
TYPE		PVC						DIP			
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	
90° BEND	25	36	46	55	64	65	77	89	105	120	
45° BEND	10	15	19	23	26	27	32	37	44	50	
22-1/2° BEND	5	8	9	11	13	13	15	18	21	24	
11-1/4° BEND	3	4	5	6	8	7	8	9	10	12	
PLUG OR BRANCH OF TEE	53	74	97	117	135	138	166	194	231	265	
VALVE	27	38	49	59	68	69	83	97	116	133	

DATE

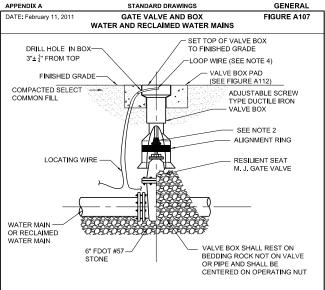
- FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED. 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN
- LENGTH SHOWN IN THE TABLE.

 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH
- THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
- 4. ALL INLINE VALVES SHALL BE RESTRAINED. 5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
- 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:

WORKING PRESSURE: 150 PS SOIL DESIGNATION: SM (SAND SILT)
LAYING CONDITIONS: 3 DEPTH OF COVER: 3 F SAFETY FACTOR: CONVERSION FACTOR FOR PVC PIPE: 1.25

THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC SOIL DESIGNATIONS, LAYING CONDITIONS, PIPE MATERIAL, ETC. FOR DIP ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR OF

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

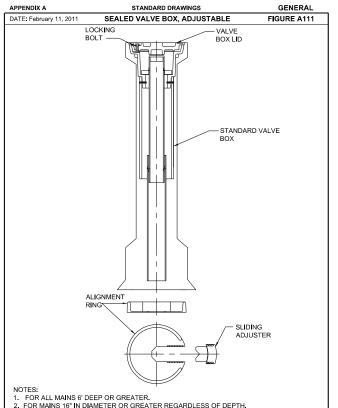


- PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX
- 2. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3' OF FINISHED GRADE.
 3. PROVIDE A PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE
- ACTUATING NUT AND MINIMIZE INFILTRATION.

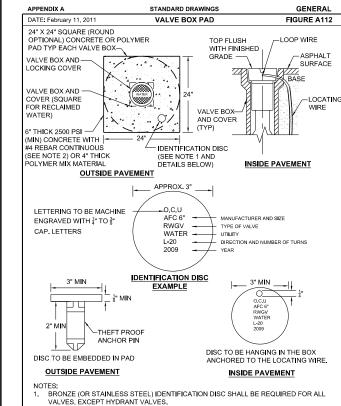
 LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR, WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
- 5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO
- ALLOW FOR FUTURE BOX ADJUSTMENTS.

 6. REFER TO FIGURE A111 FOR INSTALLATIONS AT A DEPTH OF 6' OR GREATER.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL



ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL



REVISIONS DESCRIPTION DESCRIPTION DATE 98 South Semoran Blvd, Orlando, FL 32807 Phone Number - 407,380,0402

GTC Engineering Corporation

Certificate of Authorization Claude L. Cassagnol, P.E. P.E. Number 35490 Number 6758

ORANGE COUNTY PUBLIC WORKS

GTC PROJECT NO OCPW PROJECT NO. AVALON PARK BLVD. FLO 20.15 5142 IMPROVEMENTS

ORANGE COUNTY UTILITIES STANDARD DETAILS (1 OF 2)

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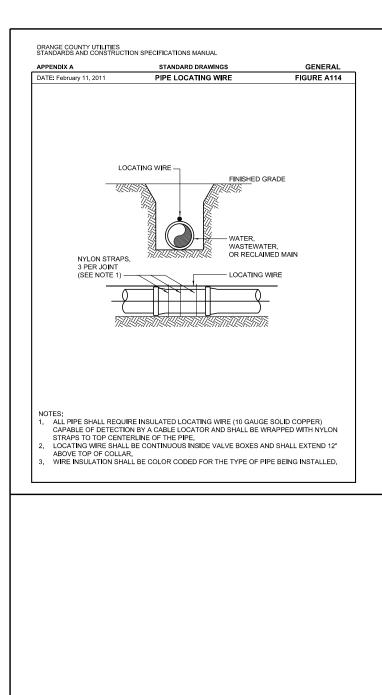
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2. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD WITH TWO #4 REBAR AROUND PERIMETER MAY BE USED



REVISIONS

DATE

DESCRIPTION

DATE

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

STANDARD DRAWINGS GENERAL DATE: February 11, 2011 SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS											
PROPOSED	POTA WAT		RECL WA	AIMED TER		WATER TY & FM)	STORM SEWER					
UTILITY	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT				
POTABLE WATER	3' NOTE 1	12"	3' NOTE 1 & 3	12" NOTE 3	6' NOTE 3	12" NOTE 3	3' NOTE 1 & 3	12"/18" NOTE 2 & 3				
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2				
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2				
RIGHT OF WAY	3' NOTE 1	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A				

DESCRIPTION

- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTHS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH. THE 18-INCH SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE CROSSES ABOVE THE OCU MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24 INCHES. OTHERWISE, THE REQUIRED SEPARATION IS 21 INCHES. THIS SEPARATION REQUIREMENT COMPLIES WITH MINIMUM FDEP SEPARATION.
- REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FOEP AND OCU.

 DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

GTC Engineering Corporation

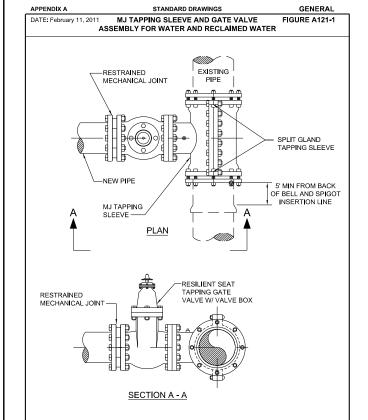
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Phone Number - 407.380.0402

Certificate of Authorization Number 6758

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL



ORANGE COUNTY PUBLIC WORKS ORANGE COUNTY UTILITIES OCPW PROJECT NO. STANDARD DETAILS (2 OF 2) 5142

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AVALON PARK BLVD.

SAFETY IMPROVEMENTS

GTC PROJECT NO.

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GENERAL NOTES

- 1. COST OF ALL ITEMS FOR MAINTENANCE OF TRAFFIC TO BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC (LS).
- 2. FOR MAINTENANCE OF TRAFFIC DETAILS. REFER TO THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (THE STANDARD INDEXES) 2017-2018 EDITION. INDEX 600 SERIES. AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.
- 3. THE SPEED LIMIT THROUGH THE WORK ZONE DURING EACH PHASE SHALL BE 35 MPH, UNLESS OTHERWISE SPECIFIED IN THAT PARTICULAR PHASE.
- 4. 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.
- 5. 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.
- 6. THE CONTRACTOR SHALL NOTIFY THE ORANGE COUNTY SCHOOL BOARD, SAFETY MANAGER WILLIAM WEN (407-317-3816), ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION TO COORDINATE SCHOOL BUS RE-ROUTING.
- 7. ORANGE COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS.
- 8. ANY CHANGES MADE TO THE TRAFFIC CONTROL PLAN BY THE CONTRACTOR, SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE TRAFFIC CONTROL MANAGER PRIOR TO IMPLEMENTATION.
- 9. 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 AND ARE TO BE INCLUDED IN THE COST FOR PAY ITEM 102-1 MAINTENANCE OF TRAFFIC (LS)
- 10. 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.
- 11. 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.
- 12. PAINT PRODUCTS AND RETRO-REFLECTIVE PAVEMENT MARKERS WILL BE CONSIDERED TEMPORARY PAVEMENT MARKING MATERIALS ON SURFACES THAT ARE TO BE MILLED AND RESURFACED.
- 13. EXISTING PAVEMENT MARKINGS, WHICH ARE TO BE OBLITERATED, SHALL BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REINSTATING VEHICULAR TRAFFIC.
- 14. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE NEW OR LIKE NEW CONDITION. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED.
- 15. CHANNELIZING DRUMS SHALL BE USED ON NEWLY PAVED ROADWAYS.
- 16. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN THE CLEAR ZONE OF A ROADWAY OPEN TO VEHICULAR TRAFFIC.
- 17. 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 LUMP SUM MAINTENANCE OF TRAFFIC (ITEM 102-1).
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EACH EMPLOYEE SUPERVISING THE SELECTION AND PLACEMENT OF MAINTENANCE OF TRAFFIC (MOT) CONTROL DEVICES IS 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. 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. THE TCS SHALL BE PRESENT DURING THE INITIAL SET UP OF THE TRAFFIC CONTROL PLAN AND ALL SUBSEQUENT PHASES OR CHANGES TO THE TRAFFIC CONTROL. THE TCS SHALL IMMEDIATELY CORRECT ALL DEFICIENCIES. 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. THE TCS SHALL BE RESPONSIBLE FOR PERFORMING WEEKLY, DAYTIME AND NIGHT TIME INSPECTIONS OF ALL TRAFFIC CONTROL DEVICES, TRAFFIC FLOW, PEDESTRIAN/BICYCLIST MOVEMENT THROUGH THE WORK AREA, AND BUSINESS ACCOMODATIONS. 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.
- 20. THE CONTRACTOR SHALL EITHER BACKFILL OR COVER BY AN APPROVED METHOD ALL OPEN TRENCHES AT THE END OF EACH WORK PERIOD. REFER TO FDOT INDEX 600, SHEET 10 OF 13.
- 21. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS
- 22. TRAFFIC SHALL BE MAINTAINED ON PAVED SURFACES AT ALL TIMES.
- 23. CONSTRUCT DRAINAGE SYSTEMS FROM OUTFALL UPSTREAM IN THE REVERSE DIRECTION OF FLOW. POSITIVE DRAINAGE IS TO BE MAINTAINED AT ALL TIMES. CONSTRUCT PROPOSED STORM SEWER PIPES TO THE LIMITS OF PROPOSED WORK IN EACH PHASE, AND PLUG FOR CONNECTION DURING SUBSEQUENT PHASES OF CONSTRUCTION.
- 24. 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 STATED.
- 25. ALL TEMPORARY PAVEMENT SHALL UTILIZE A FIRM AND UNYIELDING BASE WITH ASPHALT PAVEMENT. TEMPORARY PAVEMENT SHALL BE REPAIRED AS NEEDED OR AS DIRECTED BY THE ENGINEER AND PAYMENT SHALL BE INCLUDED IN THE LUMP SUM MAINTENANCE OF TRAFFIC (ITEM 102-1).
- 26. ADVANCE SIGNING TO BE AS SHOWN AS PER THE APPROPRIATE FDOT INDEX. PHASE SIGNING SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF THAT PHASE. CONTRACTOR SHALL COVER ALL CONFLICTING SIGNS WHEN NOT IN USE.
- 27. ADVANCE SIGN LOCATIONS AND SPACING SHALL BE FIELD ADJUSTED TO AVOID CONFLICTS WITH EXISTING ABOVE GROUND OBJECTS. SIGNS ARE TO BE LOCATED WHERE THEY ARE CLEARLY VISIBLE TO ONCOMING TRAFFIC AND SHALL BE KEPT IN GOOD CONDITION THROUGHOUT THE DURATION OF CONSTRUCTION.
- 28. RELOCATION OF UTILITIES WILL GO ON CONCURRENTLY WITH THE ROADWAY CONSTRUCTION.
 ROADWAY CONTRACTOR TO COORDINATE CLOSELY WITH UTILITY CONTRACTOR(S) TO AVOID CONFLICTS.
- 29. ANY CHANGE IN SPEED LIMITS SHALL BE APPROVED BY THE ORANGE COUNTY TRAFFIC ENGINEER. CONTACT JOHN KLIMOVITCH, 407-836-7803.
- 30. AN OFF-DUTY OFFICER WILL BE REQUIRED FOR ALL NIGHTTIME LANE CLOSURES. THE COST FOR THE OFF-DUTY OFFICER TO BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC (LS)
- 31. ONLY CHANNELIZING DRUMS SHALL BE USED FOR NIGHTTIME LANE CLOSURES.
- 32. NO LANE CLOSURES WITHOUT PRIOR APPROVAL OF ORANGE COUNTY TRAFFIC ENGINEERING. NO DAYTIME LANE CLOSURES WILL BE ALLOWED. CONTRACTOR MUST MAINTAIN ONE LANE FOR BOTH DIRECTIONS OF TRAFFIC AT ALL TIMES.
- 33. CONTRACTOR TO PROVIDE VARIABLE MESSAGE SIGNS INFORMING THE PUBLIC 10 DAYS PRIOR TO ANY ROAD CLOSURE, AND NOTIFY ORANGE COUNTY EMERGENCY SERVICES 7 DAYS PRIOR TO THE ROAD CLOSURE. THE COST FOR VARIABLE MESSAGE SIGNS TO BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC (LS)

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REVISIONS

DATE DESCRIPTION DATE DESCRIPTION

OF The phone Number - 407.380.0402

REVISIONS

GTC Engineering Corporation
98 South Semoran Blvd, Orlando, FL 32807
Phone Number - 407.380.0402

Certificate of Authorization Number 6758 Claude L. Cassagnol, P.E. P.E. Number 35490 FLO 20.15

ORANGE COUNTY PUBLIC WORKS

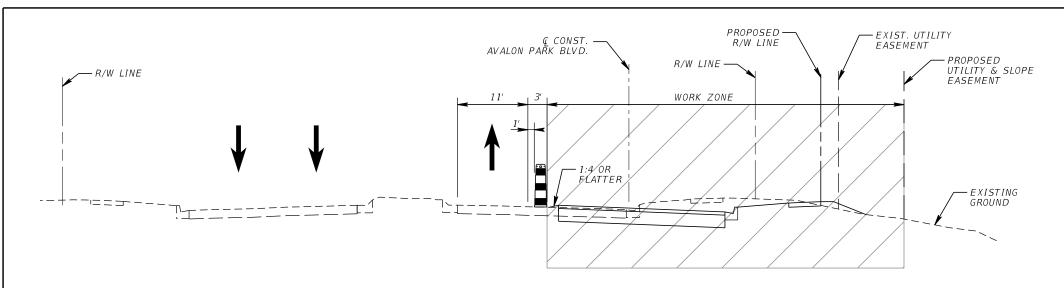
GTC PROJECT NO. | OCPW PROJECT NO.

AVALON PARK BLVD.
SAFETY
IMPROVEMENTS

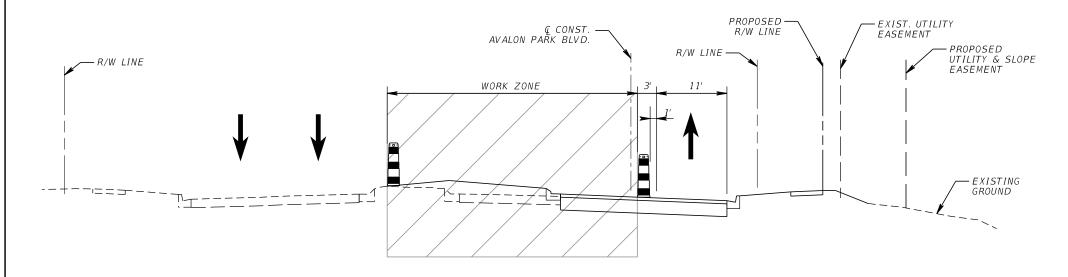
OCPW PROJECT NO.
5142

MAINTENANCE OF TRAFFIC GENERAL NOTES SHFFT

NO.



PHASE 1 AVALON PARK BLVD. STA. 4+39.86 TO STA. 13+25.07



PHASE 2
AVALON PARK BLVD.
STA. 4+39.86 TO STA. 13+25.07

REVISIONS DATE DESCRIPTION DATE DESCRIPTION 98 South Semora Phone Nu. Certificate of Authorization Number 6758

GTC Engineering Corporation 98 South Semoran Blvd, Orlando, FL 32807 Phone Number - 407.380.0402

Phone Number - 407.380.0402

Authorization Claude L. Cassagnol, P.E. er 6758 P.E. Number 35490

ORANGE COUNTY PUBLIC WORKS GTC PROJECT NO. AVAION PARK BLVD. OCPW PROJECT NO.

FLO 20.15

AVALON PARK BLVD.
SAFETY
IMPROVEMENTS

OCPW PROJECT NO.
5142

PHASE 1A CONSTRUCTION

- 1. POSTED SPEED LIMIT ON AVALON PARK BLVD. IS 35 MPH.
- 2. PHASE 1A WILL BE PERFORMED PRIOR TO PHASE 1 CONSTRUCTION.
- 3. USE FDOT STANDARD INDEX 613 TO CONSTRUCT STORM STRUCTURE AND PIPE FROM S-4 TO S-5, CLOSING ONE LANE AT A TIME. THE OPEN CUT EXCAVATION ACROSS THE LEFT NORTHBOUND LANE WILL BE SAW CUT AND PAVED WITH TEMPORARY PAVEMENT MATCHING EXISTING GRADE. STORM STRUCTURE S-4 WILL HAVE A TEMPORARY TOP WITH ELEVATION MATCHING EXISTING GRADE. THIS TOP WILL BE REPLACED AND ADJUSTED TO FINAL GRADE IN PHASE 2. THE COST FOR TEMPORARY MANHOLE TOP TO BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC (LS).

PHASE 1 CONSTRUCTION

- 1. POSTED SPEED LIMIT ON AVALON PARK BLVD. IS 35 MPH EXCEPT THOUGH THE REVERSE CURVES FOR THIS PHASE, WHICH IS 15 MPH AS INDICATED.
- 2. THIS PHASE IS UTILIZING FDOT STANDARD INDEX 613.
- 3. INSTALL TRAFFIC CONTROL DEVICES AS PER STANDARD INDEXES (600 SERIES, LATEST EDITION).
- 4. PLACE TEMPORARY PAVEMENT MARKINGS AND BARRICADES AND MERGE TWO LANES TO ONE ONTO THE EXISTING LEFT NORTHBOUND LANE MAINTAINING ONE 11' LANE. INSTALL BY UTILIZING FDOT STANDARD INDEX (600 SERIES, LATEST EDITION).
- 6. CONSTRUCT ROADWAY RECONSTRUCTION (NOT INCLUDING FRICTION COURSE), STORM SEWER, GRADING AND SIGNING AND PAVEMENT MARKINGS.

PHASE 2 CONSTRUCTION

- 1. POSTED SPEED LIMIT ON AVALON PARK BLVD. IS 35 MPH.
- 2. THIS PHASE IS UTILIZING FDOT STANDARD INDEX 613.
- 3. INSTALL TRAFFIC CONTROL DEVICES AS PER STANDARD INDEXES (600 SERIES, LATEST EDITION).
- 4. PLACE TEMPORARY PAVEMENT MARKINGS AND BARRICADES AND MERGE TWO LANES TO ONE ONTO THE NEW CONSTRUCTION RIGHT NORTHBOUND LANE MAINTAINING ONE 11' LANE. INSTALL BY UTILIZING FDOT STANDARD INDEX (600 SERIES, LATEST EDITION).
- 6. CONSTRUCT ROADWAY RECONSTRUCTION (NOT INCLUDING FRICTION COURSE), STORM SEWER, GRADING AND SIGNING AND PAVEMENT MARKINGS.

PHASE 3 CONSTRUCTION

- 1. POSTED SPEED LIMIT ON AVALON PARK BLVD. IS 35 MPH.
- 2. PLACE FINAL FRICTION COURSE THROUGHOUT PROJECT LIMITS. UTILIZING FDOT STANDARD INDEXES (600 SERIES, LATEST EDITION).
- 3. PLACE FINAL PAVEMENT MARKINGS UTILIZING FDOT STANDARD INDEXES (600 SERIES, LATEST EDITION).
- 4. REPLACE EXISTING PAVEMENT MARKINGS AND RPM'S BEYOND THE RECONSTRUCTION LIMITS THAT WERE WITHIN THE MAINTENANCE OF TRAFFIC LIMITS. THE COST FOR ADDITIONAL PAVMEMENT MARKINGS AND RPM'S TO BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC (LS).

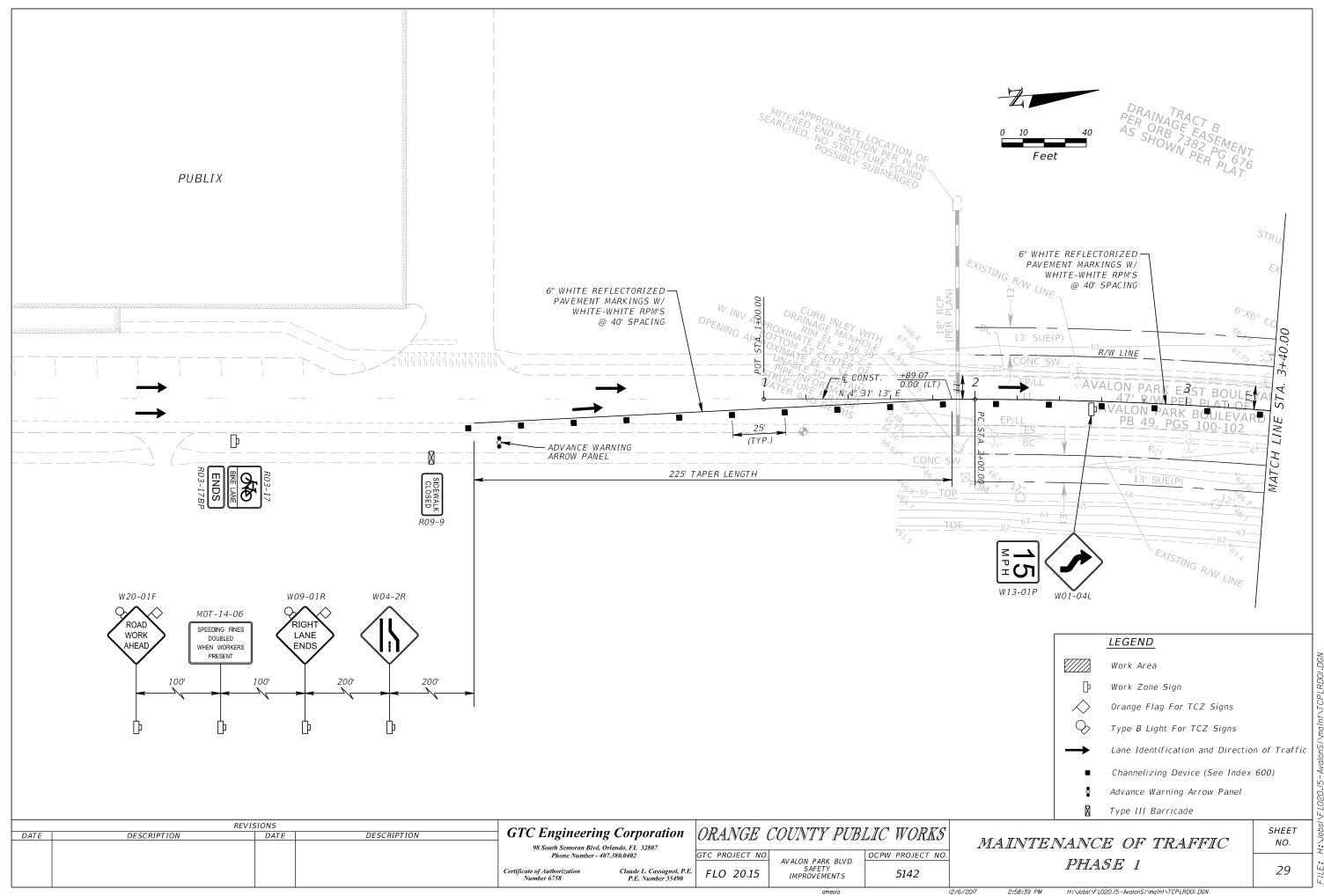
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS &
PHASING NOTES

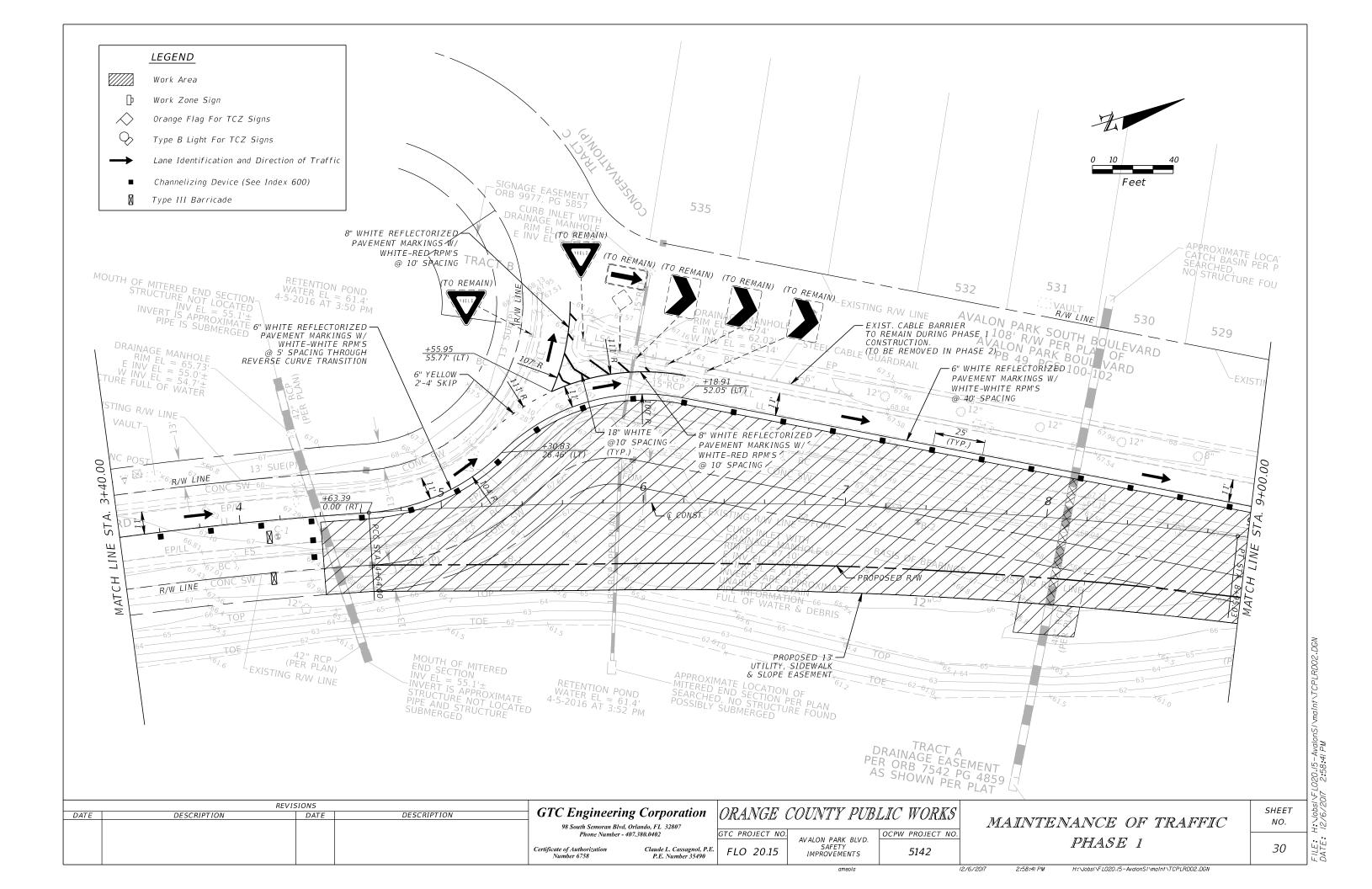
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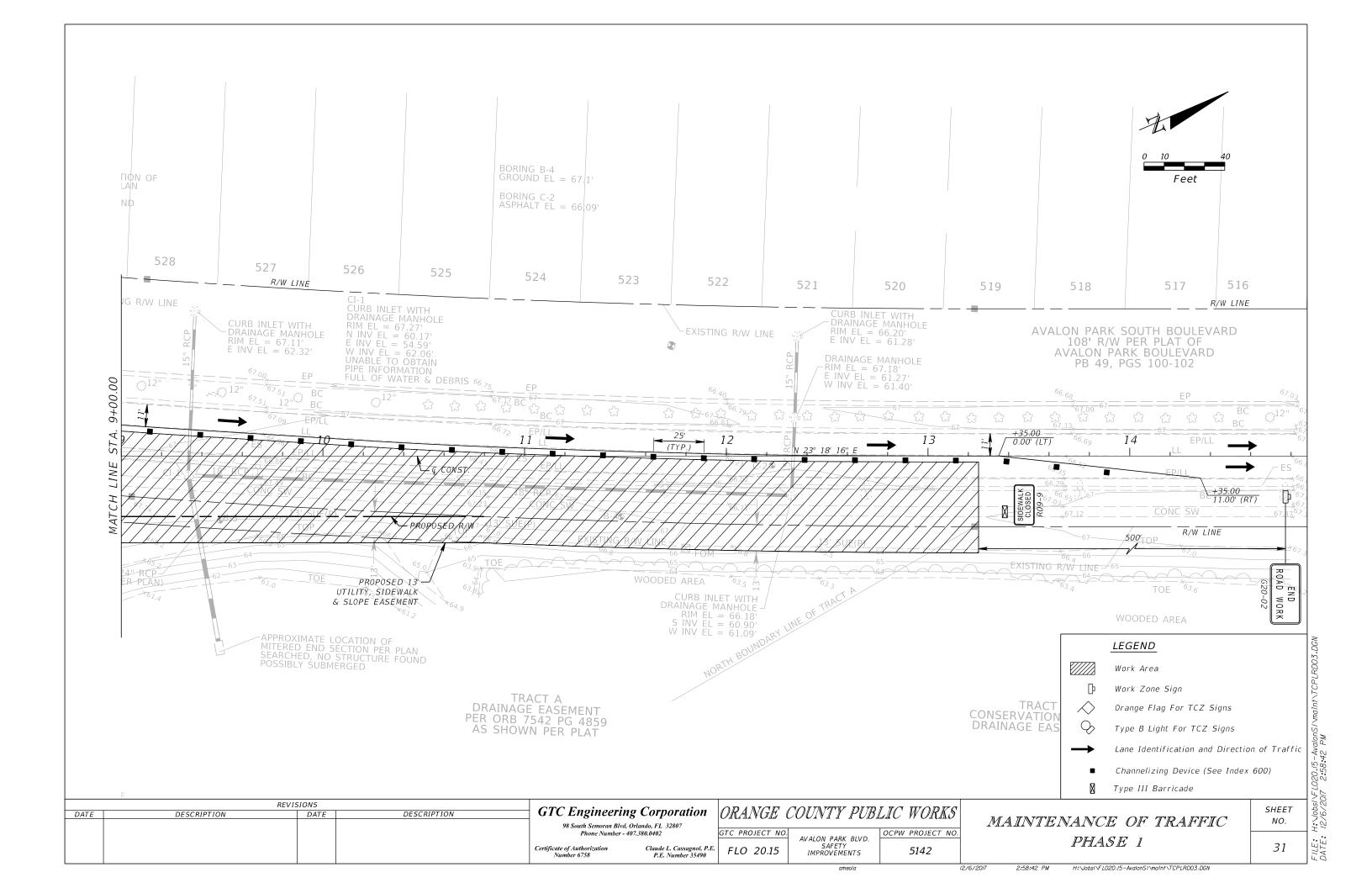
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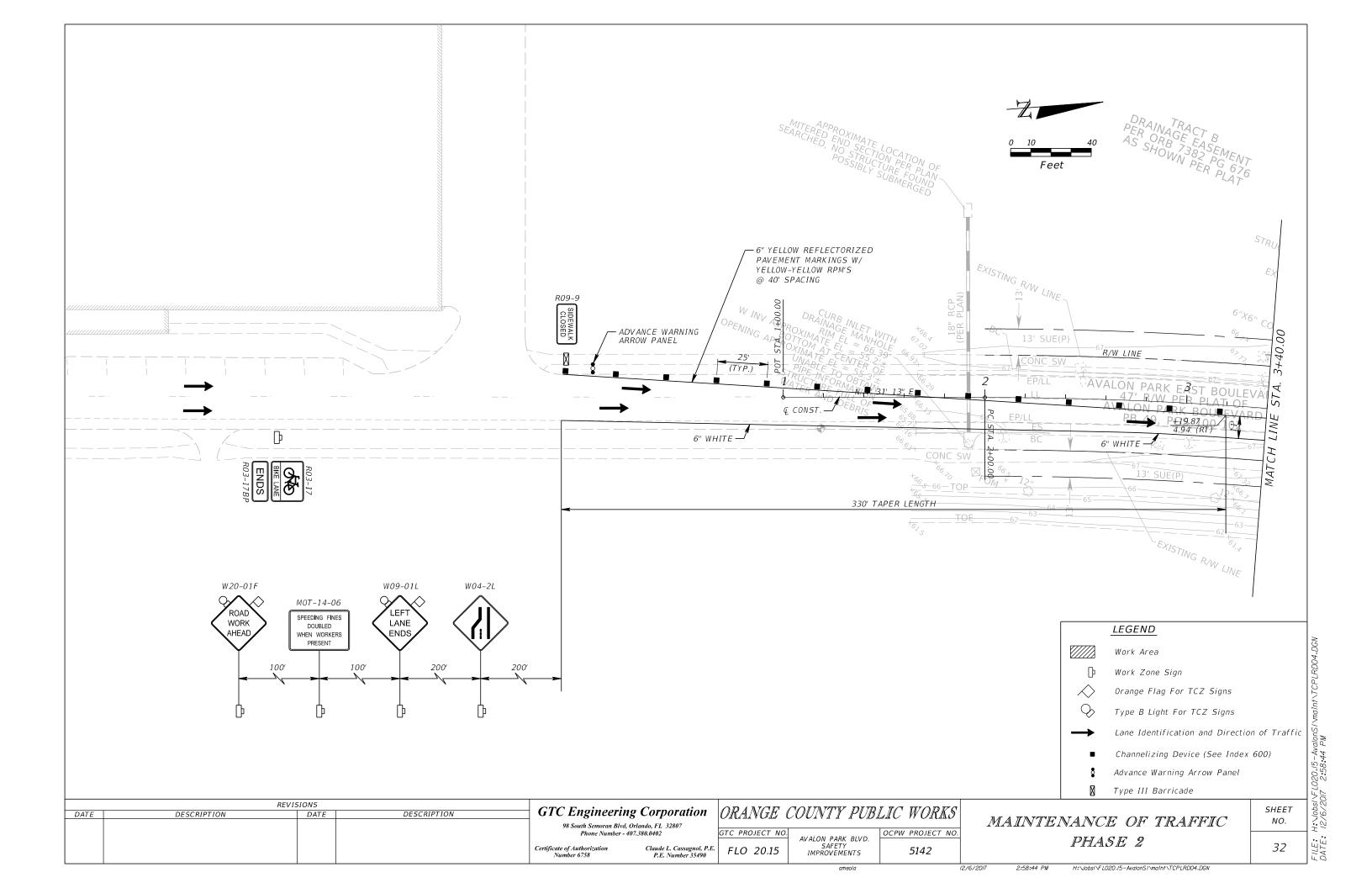
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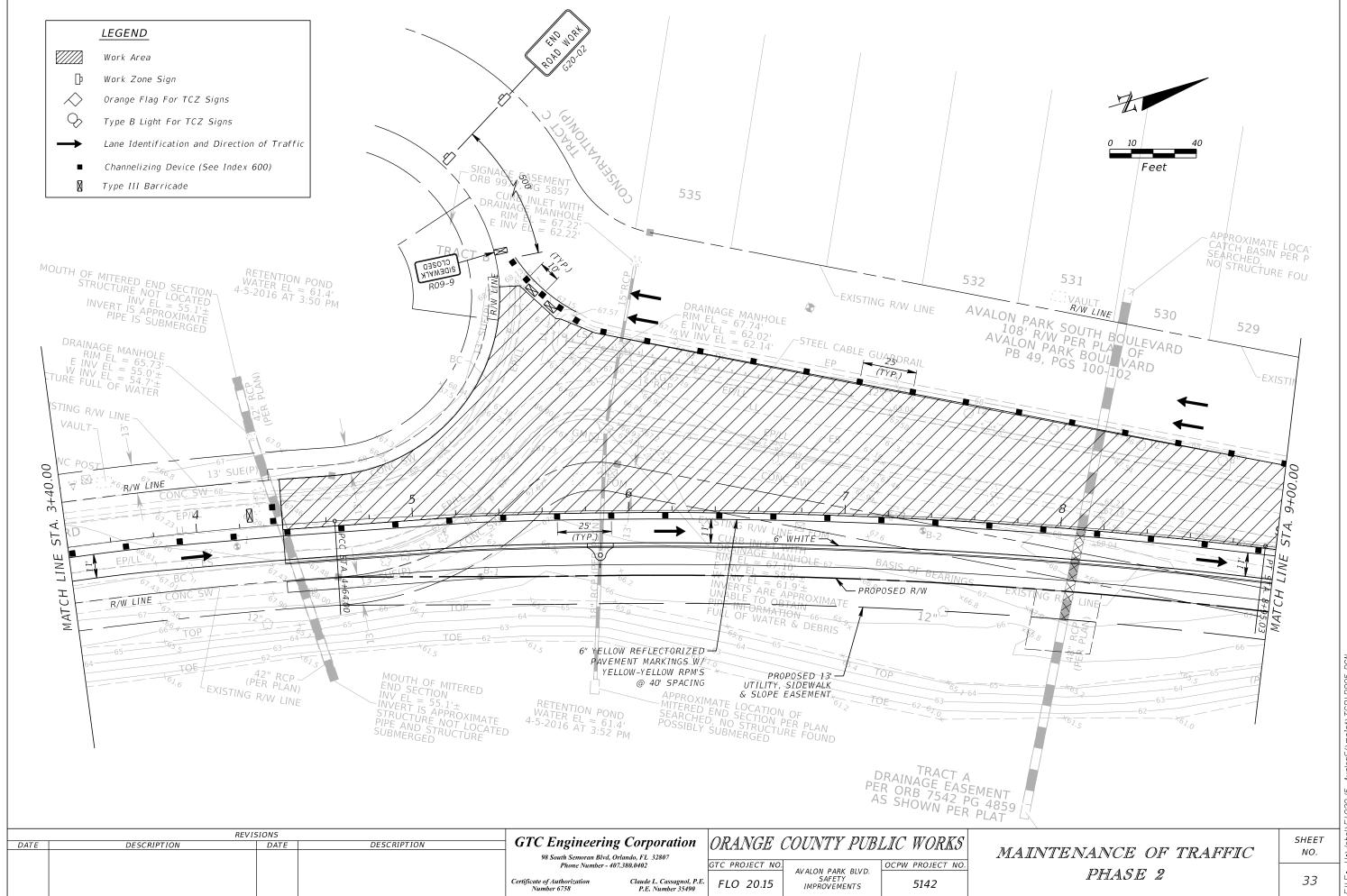
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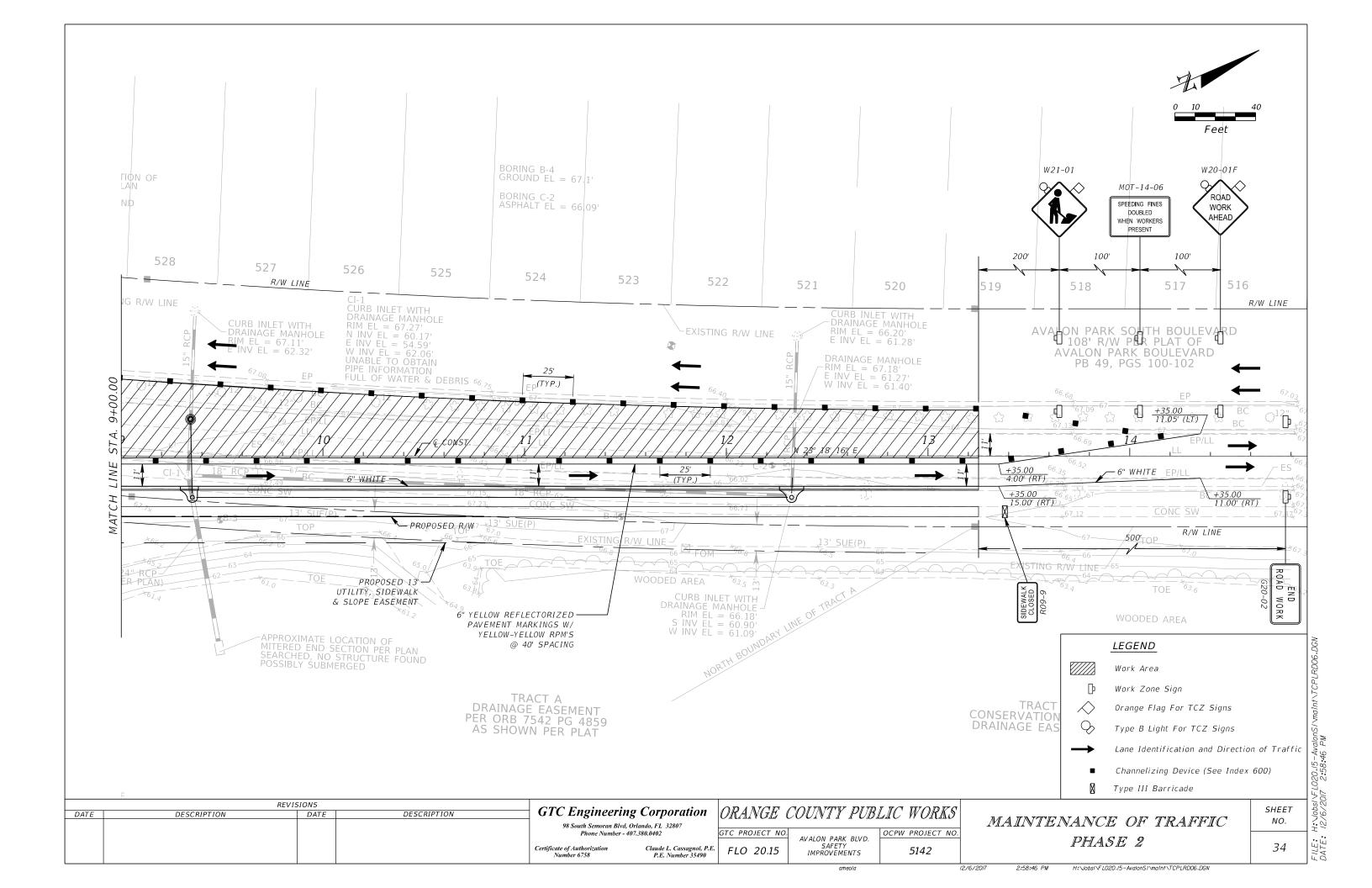


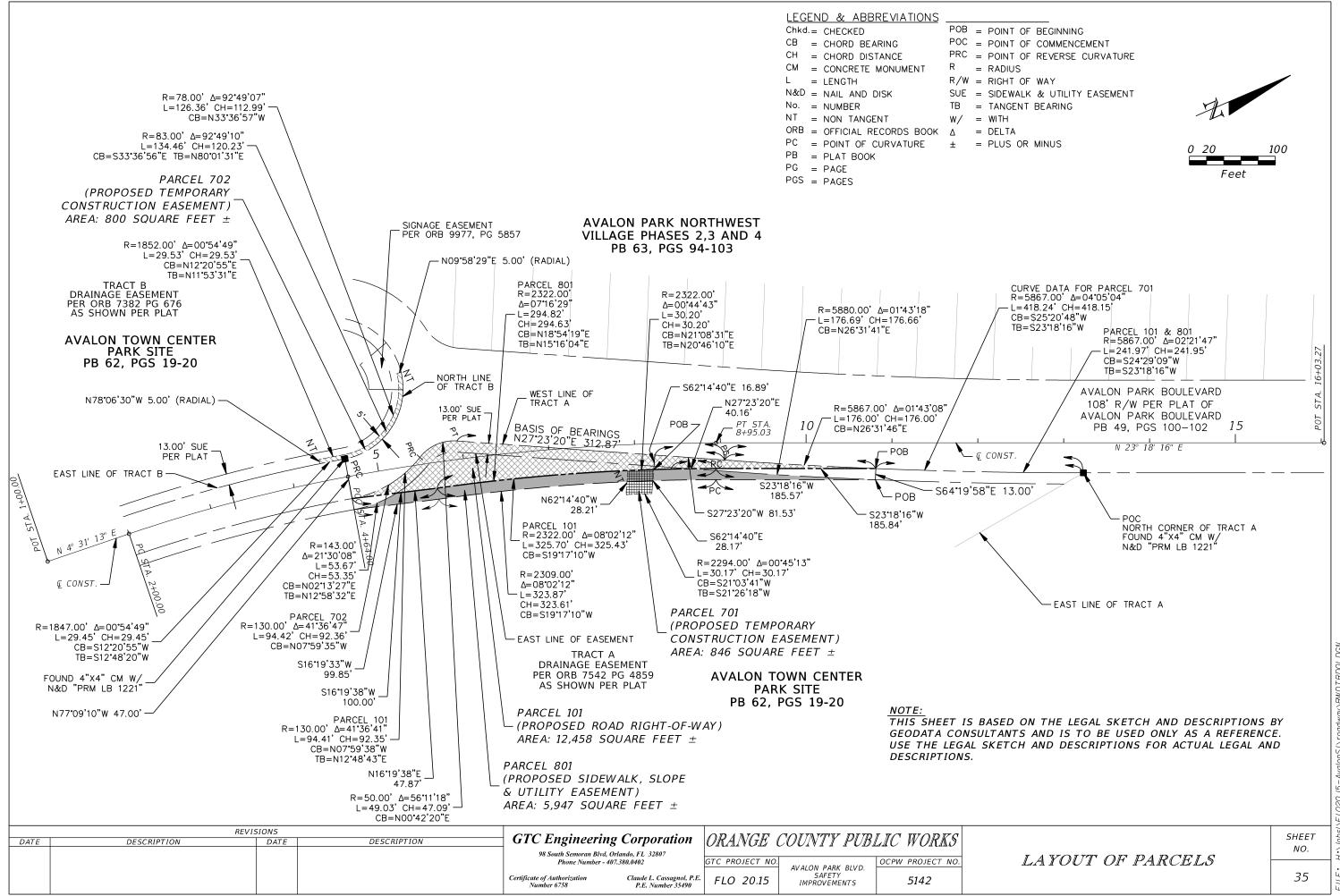












TABULATION OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT		I		I		SHEET	NUMBER.	S						TOT TH SHE	IS	GRA TOT	
NO.			S-2 PLAN FINAL		- 3 FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
				_															
700-1-60	SINGLE POST SIGN, REMOVE	AS	6	0				-	-							6		6	·
700-3-101		EA	1	0			-		-							1		1	·
700-3-601		EA	2	0				-	-							2		2	
706-3	REFLECTIVE PAVEMENT MARKERS (W/R)	EA	24	12												36		36	
	THERMOPLASTIC, WHITE, SOLID FOR DIAGONALS AND CHEVRONS, 18"	LF	41	0					-							41		41	
	THERMOPLASTIC, PREFORMED, MESSAGE (BIKE SYMBOL)	EA	1	0			-		-							1		1	·
	THERMOPLASTIC, PREFORMED, ARROWS (BIKE THRU ARROW)	EA	1	0					-							1		1	 '
	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 6"	GM		0.088												0.167		0.167	·'
	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 8"	GM	0.023	0												0.023		0.023	·'
	THERMOPLASTIC, WHITE, SKIP/DOTTED, 6" (10/30)	GM		0.091												0.183		0.183	·
711-16-201	THERMOPLASTIC, STD - OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.094	0.088												0.182		0.182	<u>'</u>
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SIGNING AND PAVEMENT MARKING NOTES

- 1. FOR PAVEMENT MARKING AND SIGN INSTALLATION DETAILS REFER TO FLORIDA DEPARTMENTOF TRANSPORTATION DESIGN STANDARDS, DATED 2018.
- 2. ALL THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE ALKYD BASED THERMOPLASTIC.
- 3. ALL SURFACES SHALL BE CLEANED PRIOR TO THE START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
- 4. ALL STRIPING SHALL BE APPLIED BEFORE REFLECTIVE PAVEMENT MARKERS ARE APPLIED.
- 5. FOR SIGN DETAILS REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PUBLISHED BY U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION 2009.
- 6. ALL SIGNS SHALL BE LOCATED IN ACCORDANCE WITH HORIZONTAL CLEARANCES (CLEAR ZONES) AS SPECIFIED IN THE F.D.O.T. PLANS PREPARATION MANUAL.
- 7. FOR REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS, REFER TO FDOT DESIGN STANDARDS, INDEX NO. 17352
- 8. BITUMINOUS ADHESIVE SHALL BE USED TO SET REFLECTIVE PAVEMENT MARKERS ON ALL ASPHALT SURFACES.
- 9. THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD. TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE PAID FOR UNDER PAY ITEM 710-90 PAINTED PAVEMENT MARKINGS, FINAL SURFACE (LS).
- 10. ALL EXISTING SIGNS SHALL BE MAINTAINED EXCEPT THOSE NOTED IN THE PLANS TO BE REPLACED OR RELOCATED.
- 11. ALL SIGNS SHALL BE CONSTRUCTED WITH TYPE XI (DG 3) REFLECTIVE SHEETING.
- 12. SIGN POSTS NOT REQUIRING A SLIP BASE AND FOOTING 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 SEALED WITH A POLYMER TOPCOAT.

PAY ITEM FOOTNOTES:

- 102-1 THIS PAY ITEM NUMBER IS TO INCLUDE THE REMOVAL AND REPLACEMENT OF ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS. IF SIGNS ARE DAMAGED BY THE CONTRACTOR, THE SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S
- 706-3 INCLUDES THE REMOVAL OF ALL EXISTING RPM'S WITHIN THE LIMITS OF THE PROJECT OPERATION AND IS INCIDENTAL TO PAY ITEM NUMBER 706-3-X.

		REVISIONS		CTC E	
DATE	DESCRIPTION	DATE	DESCRIPTION	GTC Engineerin	ig Corporatio
				98 South Semoran Blvd, Phone Number -	
				Certificate of Authorization Number 6758	Claude L. Cassagnoi P.E. Number 354

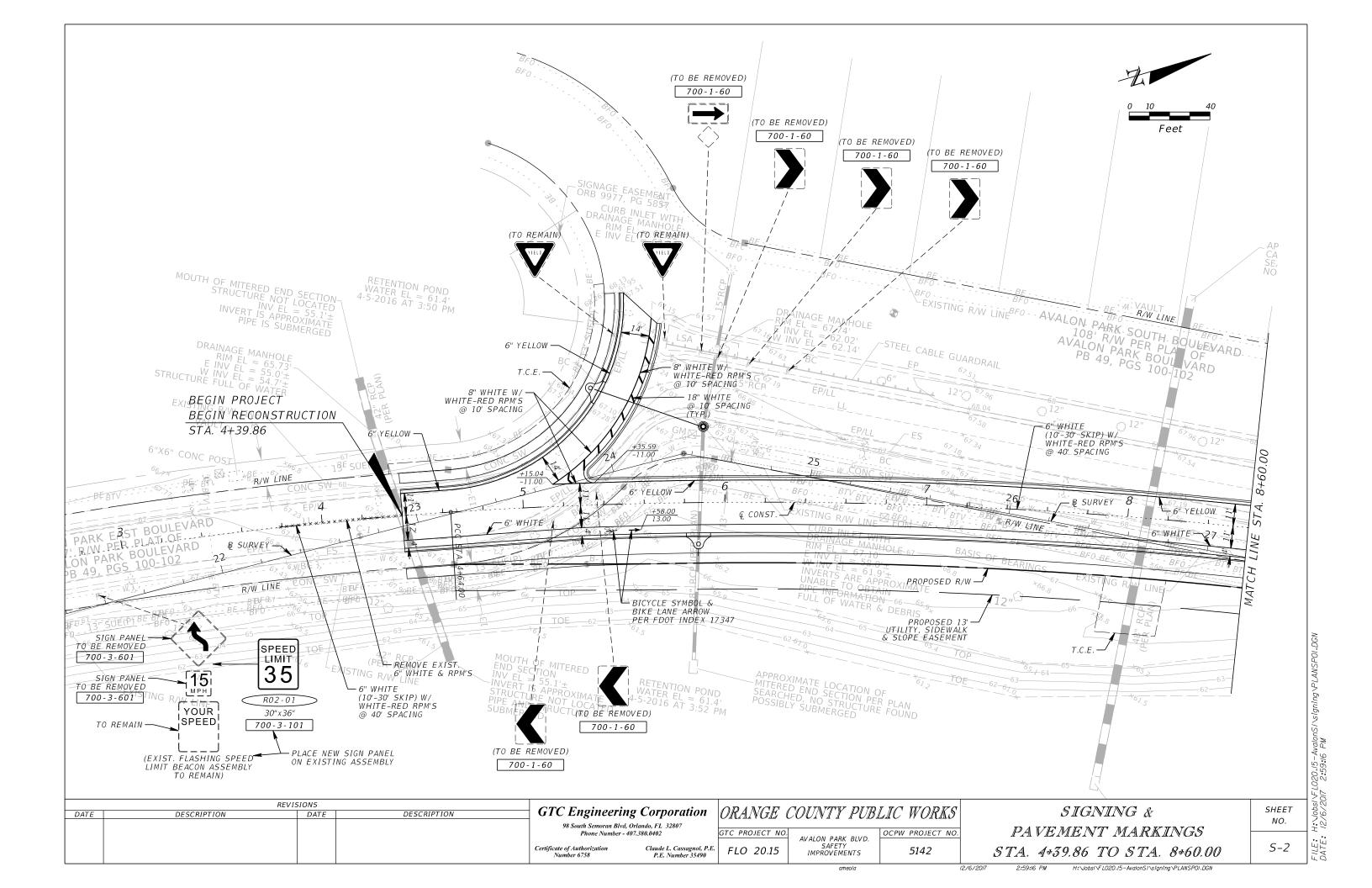
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	GTC PROJECT NO.		OCPW	PROJECT NO.
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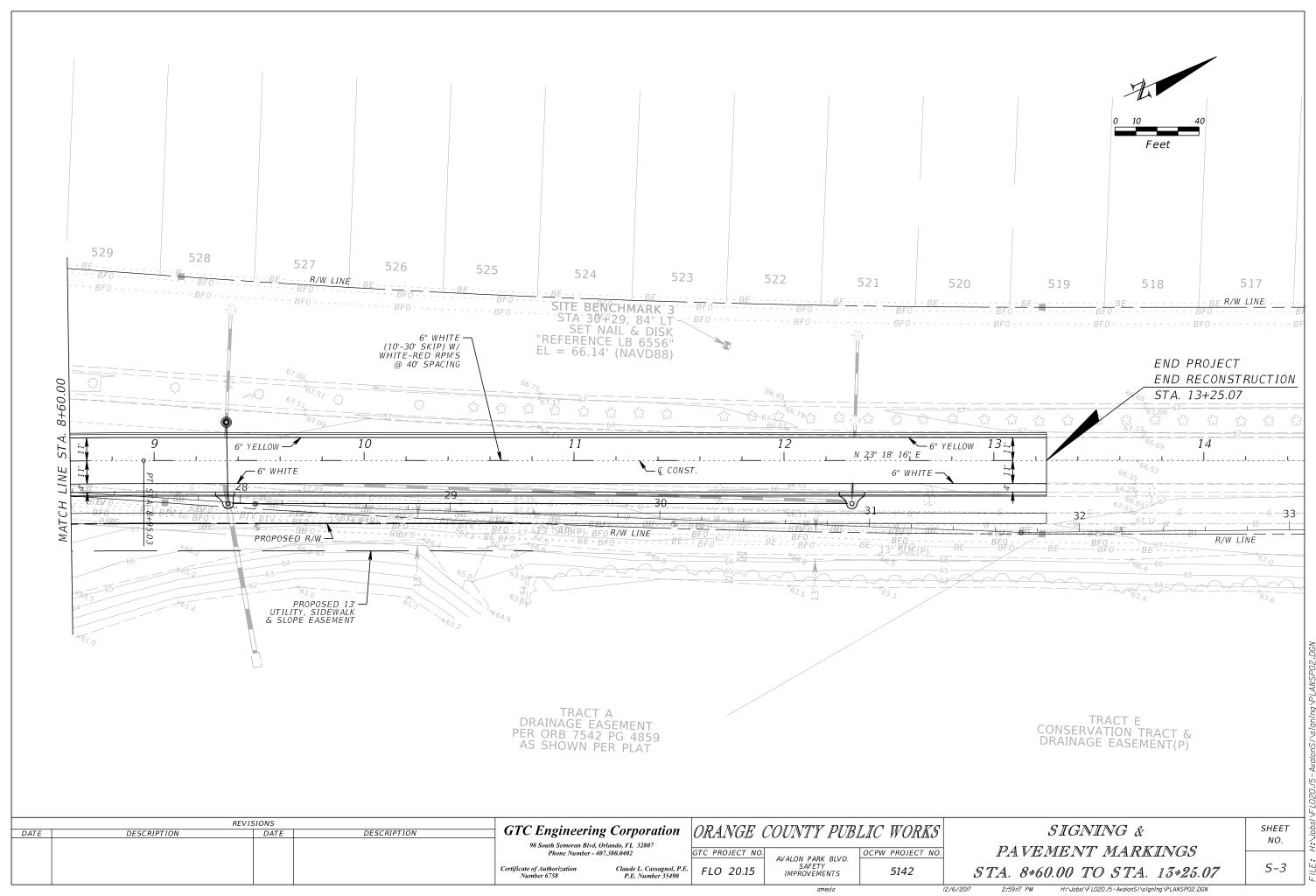
SIGNING & PAVEMENT MARKINGS TABULATION OF QUANTITIES

SHEET NO.

S-1

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TOPOGRAPHIC SURVEY **AVALON PARK BOULEVARD**

SURVEYOR'S REPORT

1. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH THE EXISTING RIGHT OF WAY FOR AVALON PARK EAST BOULEVARD THAT ADJOINS THE NORTHERLY 270 FEET OF DRAINAGE TRACT "B" AND AVALON PARK SOUTH BOULEVARD FROM THE INTERSECTION OF THE EAST AND WEST LOOP LYING AT THE NORTH END OF TRACT "B" TO A POINT BEING 900 FEET NORTH ALONG AVALON PARK SOUTH BOULEVARD BY ESTABLISHING OR RE-ESTABLISHING CORNERS, MONUMENTS AND BOUNDARY LINES, AND TO ESTABLISH THE HORIZONTAL AND VERTICAL SPATIAL RELATIONSHIP OF THE NATURAL OR MANMADE FEATURES LYING WITHIN THE DEFINED LIMITS NOTED AROVE

- 2. BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD83/11), ZONE 901, FLORIDA EAST WITH THE EAST RIGHT OF WAY LINE OF AVALON PARK SOUTH BOULEVARD LYING BETWEEN STA 24+51.43 AND STA 27+64.30 HAVING A BEARING OF NORTH 27°23'20" EAST.
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED FROM THE FOLLOWING ORANGE COUNTY

\$1311014
FOUND 3" ORANGE COUNTY ALUMINUM DISK IN CURB INLET ON EAST SIDE OF AVALON PARK BOULEVARD AT THE NORTH END OF ROAD SPLIT. PUBLISHED ELEVATION = 67.159 FEET (NAVD88)

FOUND SQUARE CUT IN CURB INLET ON EAST SIDE OF AVALON BOULEVARD 300 FEET ± NORTH OF ROUND ABOUT CIRCLE. PUBLISHED ELEVATION = 66.555 FEET (NAVD88)

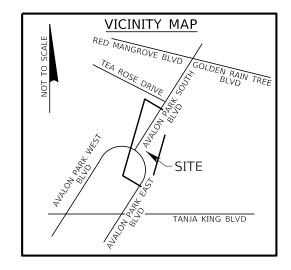
- 4. A CERTIFICATE OF TITLE INFORMATION PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED SEPTEMBER 5, 2016, FILE NUMBERS 2037-3627514/16.00148, 2037-3627525/16.00148, AND 2037-3627536/16.00148 WAS REVIEWED BY THE SURVEYOR. EXCEPTIONS LISTED THEREIN (IF ANY) WHICH AFFECT THE PARCEL OF LAND DESCRIBED HEREON, WHICH CAN BE DELINEATED OR NOTED, ARE SHOWN HEREON.
- 5. THE LOCATION OF UNDERGROUND UTILITY LINES SHOWN HEREON WERE DETERMINED BY A CALL SUNSHINE LOCATE REQUEST, TICKET NUMBERS 095602077, 095602151 AND BY EXAMINATION OF SURFACE APPURTENANCES OF SAID UTILITIES.
- NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN
- 7. UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT, OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
- 8. ALL RECORDING REFERENCES SHOWN ON THIS SURVEY REFER TO THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, UNLESS OTHERWISE NOTED.
- 9. ALL STATION AND OFFSETS ARE TO THE BASELINE OF SURVEY.
- 10. BORINGS SHOWN HEREON WERE DESIGNATED BY NADIC ENGINEERING SERVICES, INC. AND FIELD LOCATED BY THIS FIRM.
- 11. THE DESIGNATION PER PLAN IS TAKEN FROM THE CONSTRUCTION PLANS FOR AVALON PARK BOULEVARD PREPARED BY BOWYER-SINGLETON & ASSOCIATES, INCORPORATED, HAVING A CERTIFICATE OF COMPLETION DATED MARCH 4, 2002.

LEGEND

LLOLINE	<u> </u>
£ []	= BENCH
o ਐ o	= BIKE LANE
•	= BORING
(= 1) (= 2)	= CABLE TELEVISION BOX
(F)	= CLEAN OUT
$\hat{\omega}$	= CLUSTER OF 3" CRAPE MYRTLE TREES
1(5)}	= DRAINAGE MANHOLE
\sim	= END NOT FOUND/LOCATED
(J~0	= LIGHT POLE
\Diamond	= OAK TREE
	= POST/UTILITY MARKER
721	= SERVICE BOX

IMPROVEMENTS PROJECT

LYING IN SECTION 6, TOWNSHIP 23 SOUTH, RANGE 32 EAST. ORANGE COUNTY. FLORIDA



ABBREVIATIONS

+65.7

BE	= BASELINE	LB	= LICENSED BUSINESS	
ВС	= BACK OF CURB	LG	= LIGUSTRUM	
(C)	= CALCULATED	NAVD88	= NORTH AMERICAN VERTICAL DATUM OF :	1988
СВ	= CHORD BEARING	N:	= NORTHING	
CD	= CHORD DISTANCE	N/A	= NOT APPLICABLE	
CONC	= CONCRETE	ORB	= OFFICIAL RECORDS BOOK	
CM	= CONCRETE MONUMENT	PG	= PAGE	
Δ	= DELTA (CENTRAL ANGLE)	PGS	= PAGES	
E:	= EASTING	(P)	= PLAT	
EP	= EDGE OF PAVEMENT	РВ	= PLAT BOOK	
ES	= EDGE OF SHOULDER	PI	= POINT OF INTERSECTION	S
EL	= ELEVATION	R	= RADIUS	
FOM	= FIBER OPTIC MARKER	RCP	= REINFORCED CONCRETE PIPE	
(F)	= FIELD	RT	= RIGHT	611
GM	= GAS MARKER	R/W	= RIGHT OF WAY	<u>SU</u>
INV	= INVERT	SUE	= SIDEWALK AND UTILITY EASEMENT	I HE SHC
IRC	= IRON ROD & CAP	SW	= SIDEWALK	ANE PRA PRO
LSA	= LANDSCAPE AREA	STA	= STATION	PRO 5J-1 CHA
LL	= LANE LINE	Т	= TANGENT	THE
LT	= LEFT	TOE	= TOE OF SLOPE	REP AND
L	= LENGTH	TOP	= TOP OF BANK	
		W/	= WITH	THIS

= UNKNOWN TREE (UNLESS OTHERWISE NOTED)

= SINGLE SUPPORT SIGN

= SPOT ELEVATION

= TRANSFORMER ----- BE---- = UNDERGROUND ELECTRIC LINE

---- BFO ---- = UNDERGROUND FIBER OPTIC LINE

= VALVE UNKNOWN = WATER VALVE COVER = WIRING PULL BOX

----- = UNDERGROUND GAS LINE

= WOODS LINE

----- W ---- = UNDERGROUND WATER LINE

SHEET INDEX					
SHEET	CONTENTS				
SC-1	COVER				
SC-2 TO SC-4	DETAIL SHEETS				

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT A SURVEY OF THE PROPERTY SHOWN HEREON WAS MADE UNDER MY SUPERVISION AND THAT THE SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472.027 OF THE FLORIDA STATUTES AND THAT THE SKETCH HEREON IS A TRUE AND ACCURATE REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF. SUBJECT TO NOTES AND NOTATIONS SHOWN.

DAY OF THIS , 2016

H. Paul deVivero, Professional Land Surveyor No. 4990 Land Surveyor Business License No. 6556 VALID ONLY WITH SIGNATURE AND EMBOSSED SEAL

PREPARED FOR: GTC ENGINEERING CORPORATION ORANGE COUNTY ENGINEERING PUBLIC WORKS ROADS AND

DRAINAGE DIVISION

∕∕ GEODATA CONSULTA	DRAWN BY: PMM		
SURVEYING & MAP	LAST DATE OF FIELD		
1349 S INTERNATIONAL PA	FIELD BOOK 16-05,		
LAKE MĀRŸ, FLÓRĪDA 32746 VOICE: (407) 732-6965			ORANGE COUN
			DATE:
			APRIL 21, 2016
		1	

EODATA CONSULTA	NTS	S, INC.	DRAWN BY: PMM	CHECKED BY: RJH & JMS	
SURVEYING & MAPPING 349 S INTERNATIONAL PARKWAY SUITE 2401 LAKE MARY, FLORIDA 32746		LAST DATE OF FIELD SURVEY: 04-20-2016			
		FIELD BOOK 16-05, PAGES 6-28			
VOICE: (407) 732-6965			ORANGE COUNTY, FLORIDA		
			DATE: APRIL 21, 2016	SCALE: N/A	
IEWED TITLE WORK REVISION	PMM BY	10/11/16 DATE	PROJECT No. G07-23	SHEET SC-1	

