

# CONSTRUCTION PLANS FOR LITTLE LAKE CONWAY BAFFLE BOX IMPROVEMENTS (BOGGY CREEK BASIN PROJECT)

ORANGE COUNTY - DISTRICT NO. 4 PROJECT NO: EPD

THERESA JACOBS, COUNTY MAYOR

### BOARD OF COUNTY COMMISSIONERS

S. SCOTT BOYD DISTRICT 1 BYRON NELSON DISTRICT 2 PETE CLARKE DISTRICT 3 JENNIFER THOMPSON DISTRICT 4 TED EDWARDS DISTRICT 5

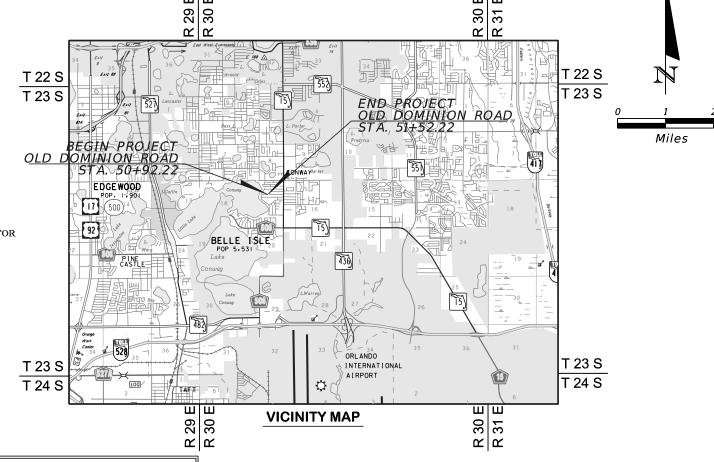
MARK V. MASSARO, P.E., PUBLIC WORKS DIRECTOR

DISTRICT 6

VICTORIA P. SIPLIN

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2014, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2014, AS AMENDED BY CONTRACT DOCUMENTS.

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



LENGTH OF PROJECT						
	LINEAR FT.	MILES				
NET LENGTH OF PROJ.	60.00	0.011				
EXCEPTIONS	0.00	0.000				
GROSS LENGTH OF PROJ.	60.00	0.011				

#### SOURCE OF BENCH MARK DATUM

L910002 - FOUND ORANGE COUNTY CONTROL DISK "L-910-002" 22'± NORTH OF CENTERLINE OF YACHTSMAN COURT AND 37'± EAST OF CENTERLINE OF LANDLUBBER STREET. DISK IS SET IN NORTHEAST CORNER OF INTERSECTION IN THE SOUTHWEST CORNER OF A CURB INLET. PUBLISHED ELEVATION = 105.254 FEET (NAVD88)

L910004 - FOUND A SQUARE CUT IN THE CENTERLINE OF A CONCRETE BASE FOR TELEPHONE J-BOX #4600 GATLIN AVENUE 44'± SOUTH OF CENTERLINE OF GATLIN AVENUE AND 185'± WEST OF EVANDER DRIVE. PUBLISHED ELEVATION = 107.603 FEET (NAVD88)

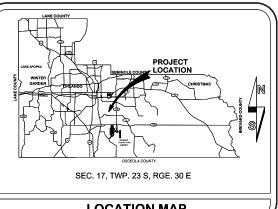
PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER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

35490 DATE: ENGINEER: CLAUDE L. CASSAGNOL, P.E. State of Florida



#### **LOCATION MAP**

INDEX OF SHEETS						
SHEET	DESCRIPTION					
1	COVER SHEET					
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3	STANDARD DRAWINGS AND DETAILS					
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5	SURVEY CONTROL SHEET					
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9	EROSION CONTROL PLAN					
10	UTILITY ADJUSTMENT SHEET					
11-12	BAFFLE BOX DETAIL					

UTILITIES	ENCOUNTERED
DUKE ENERGY	407-905-3321
BRIGHT HOUSE NETWORKS	5407-448-5506
COMCACT	407 313 5044

-5506 407-312-5944 ORANGE COUNTY UTILITES \_\_\_\_ 407-254-9706 AT&T DISTRIBUTION -407-380-0938

### 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

REVISIONS	DATE	BY

1	_	DESIGNED BY:	CLC/CMY	DATE: 6/6/14	
ĺ		DRAWN BY :	CMY	DATE: 6/6/14	
L		CHECKED BY:	CLC	DATE: 6/6/14	
l		APPROVED BY:	CLC	DATE: 6/6/14	
1	C	PROJECT NO:	EPD		

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FINAL SUBMITTAL FEBRUARY, 2015

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATIONS, THE YEAR 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.
- 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.
- 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 FDOT DESIGN STANDARD 532. PAYMENT WILL BE INCLUDED IN THE PAY ITEM NO. 110-1 (CLEARING & GRUBBING).
- 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
- ALL EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY TREE REMOVAL TO BE PERFORMED UNDER CLEARING AND GRUBBING.
- SOD ALL DISTURBED AREAS UNLESS OTHERWISE SHOWN ON THE PLANS. SOD SHALL MATCH EXISTING TYPE SOD UNIESS OTHERWISE DIRECTED BY THE ENGINEER.
- INSTALL TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
- PEGGED SOD TO BE PLACED ON ALL SLOPES 2:1 OR STEEPER.
- SAWCUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION. COST TO BE INCLUDED IN PAY ITEM 110-1-1 CLEARING & GRUBBING.
- (10) ALL PAVEMENT OFFSETS SHOWN ARE FROM PROPOSED CENTERLINE OF CONSTRUCTION; ALL RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.
- FOR STABILIZATION AT TURNOUTS AND DRIVEWAY CONNECTIONS, SEE STANDARD INDEX No. 515 AND TYPICAL SECTIONS FOR DEPTH AND LBR.
- DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104: "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION (LS)", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
- 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. SUNSHINE STATE ONE CALL MUST BE NOTIFIED FOR LOCATES AT
- UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.

- THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 553.851 AND 556.105 OF THE FLORIDA STATUTES.
- ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED
- MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
- 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 DRAWINGS AND DETAILS SHEET)
- ALL INLET/MANHOLE PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALTIC MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
- ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
- 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.
- 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.
- 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 AT 407-836-7940, AND BOTH SHALL NOTIFY

STATE GEODETIC ADVISOR, BUREAU OF SURVEY AND MAPPING MS 105 3800 COMMONWEALTH BLVD TALLAHASSEE, FL 32399-3000 PHONE: (850) 245-2555 FAX: (850) 245-2645

ORANGE COUNTY SURVEYOR ENGINEERING DIVISION. PUBLIC WORKS DEPT. 4200 S. JOHN YOUNG PARKWAY ORLANDO, FL 32839-9205 PHONE: (407) 836-7940 FAX: (407) 836-8024

- 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.
- PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DIVISION A SET OF FIELD NOTES VERIFYING THE BENCHMARK FIEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET, SURVEY CONTROL SHEET, AND PLAN/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.
- WITHIN 21 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY AT 100' INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE FNGINFFR. PAYMENT IS INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1 "MOBILIZATION".
- EXISTING TRAFFIC SIGNS SHALL REMAIN IN PLACE OR BE RELOCATED AS NEEDED BY THE CONTRACTOR UNTIL THE NEW SIGNS ARE INSTALLED. ONCE THE NEW SIGNS HAVE BEEN INSTALLED, THE EXISTING SIGNS SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE ORANGE COUNTY SIGN SHOP AT 4200 SOUTH JOHN YOUNG PARKWAY. COST OF RELOCATION, MAINTENANCE, REMOVAL, AND DELIVERY SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

- ALL EXISTING DRAINAGE PIPE AND STRUCTURES AND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN UNLESS OTHERWISE NOTED.
- INLET ELEVATIONS SHOWN IN THE PLANS REFER TO THE TOP OF THE GRATE FOR DITCH BOTTOM INLETS.
- ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM WITH THE PROVISIONS 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.
- THE CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE TO REMAIN, INCLUDING MAINTAINING MINIMUM UNDISTURBED AREAS. WHEN NECESSARY TO CUT ROOTS OVER 1-1/2" DIA., THE CUT MUST BE CLEAN. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT DRYING AND COVER WITH EARTH AS SOON AS POSSIBLE. INTERFERING BRANCHES MAY BE REMOVED AT THE DIRECTION OF A QUALIFIED TREE SURGEON PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF TREES DAMAGED BEYOND REPAIR WITH 3 TREES OF SIMILAR QUALITY AND SPECIES SIZED AT THE DIRECTION OF THE COUNTY. THIS WORK IS TO BE PAID FOR AND INCLUDED UNDER CLEARING AND GRUBBING.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION, PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SILT FENCE, ROCK BAGS, TURBIDITY BARRIERS SYNTHETIC BALES, AND ALL OTHER EROSION AND SEDIMENT CONTROL DEVICES MUST REMAIN IN PLACE AND IN GOOD CONDITION AT ALL LOCATIONS SHOWN IN PLANS OR AS REQUIRED UNTIL THE CONTRACT IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. MEASURES SHOWN ARE THE MINIMUM REQUIRED, AND THE CONTRACTOR WILL ENSURE THAT THERE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS OR TURBID WATER TO THE STORM SYSTEM, WATERS, WATERWAYS, OR OFFSITE AREAS.
- CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDESTREETS AT ALL TIMES AND TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTING CONSTRUCTION.

= TURN ARROW

### LEGEND

= CLEANOUT

= TREE PINE

(soy)	= DRAINAGE MANHOLE	(7)	= UNKNOWN MANHOLE (UNLESS OTHERWISE NOTED)
590	= ELECTRIC METER	21	= UTILITY MARKER
;	= GUY ANCHOR	$\bowtie$	= WATER VALVE
00	= LIGHT POLE	171	= WIRING PULL BOX
E <sub>0</sub> 3	= PEDESTRIAN SIGNAL	$\sim$	= END NOT FOUND/LOCATED
-\$-	= POWER POLE	×	- = FENCE
(Say)	= SANITARY MANHOLE	BE	= BURIED ELECTRIC LINE
o—ċ	= SIGNAL MAST ARM	BFO	= BURIED FIBER OPTIC LINE
a	= SINGLE SUPPORT SIGN	BTV	= BURIED CABLE TELEVISION LINE
	= TELEPHONE PEDESTAL	вт	= BURIED TELEPHONE LINE
	= TRANSFORMER	G	- = GAS LINE
$\Diamond$	= TREE (UNKNOWN UNLESS OTHERWISE NOTED)	NPW	= NON POTABLE (RECLAIM) WATER LINE
$\Diamond$	= TREE OAK	OE	- = OVERHEAD ELECTRIC LINE
*	= TREE PALM	s	= SANITARY LINE/FORCE MAIN LINE

### *ABBREVIATIONS*

APPR0X	C = APPROXIMATE	E:	= .	EASTING	PVC	= POLYVINYL CHLORIDE
B	= BASELINE	EL	=	ELEVATION	RCP	= REINFORCED CONCRETE PIPE
ВС	= BACK OF CURB	EP	= ,	EDGE OF PAVEMENT	STA	= STATION
CLF	= CHAIN LINK FENCE	INV	= .	INVERT	TOE	= TOE OF SLOPE
CRM	= CRAPE MYRTLE	LSA	= ,	LANDSCAPE AREA	TOP	= TOP OF BANK
CONC	= CONCRETE	N:	= 1	NORTHING	WIF	= WROUGHT IRON FENCE
DIP	= DUCTILE IRON PIPE	NAV D88		NORTH AMERICAN VERTICAL DATUM OF 1988	WS	= WHEEL STOP

**REVISIONS** DESCRIPTION DATE DESCRIPTION DATE

GTC Engineering Corporation 98 South Semoran Blvd, Orlando, FL 32807

Phone Number - 407,380,0402 Certificate of Authorization Claude L. Cassagnol, P.E. P.E. Number 35490

Number 6758

ORANGE COUNTY PUBLIC WORKS GTC PROJECT NO. OCPW PROJECT NO. LITTLE LAKE CONWAY BAFFLE BOX IMPROVEMENTS FLO 20.02

3/25/2015

GENERAL NOTES

- - - - w - - - - = WATER LINE

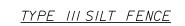
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TYPICAL PAVEMENT SPLICE DETAIL

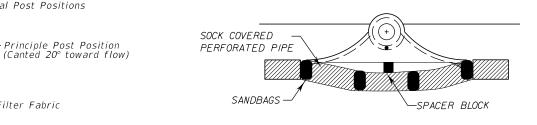


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Optional Post Positions

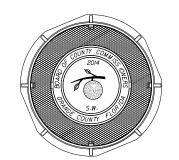
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Principle Post Position



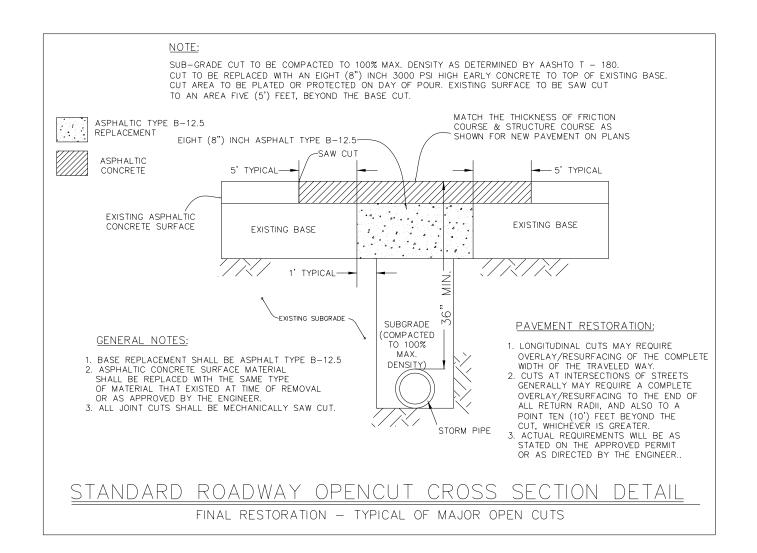
### CURB INLET SEDIMENT BARRIER

INLET PROTECTION HAS SPACER BLOCK TO ALLOW MORE FLOW TO GO INTO INLET DURING CONSTRUCTION, TO BE USED IN AREAS WHERE INLET PROTECTION COULD CAUSE FLOODING DURING LARGE RAINFALL AMOUNTS





STANDARD MANHOLE COVER



**REVISIONS** DESCRIPTION DESCRIPTION DATE DATE

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

ORANGE COUNTY PUBLIC WORKS GTC PROJECT NO. OCPW PROJECT NO.

LITTLE LAKE CONWAY BAFFLE BOX IMPROVEMENTS FLO 20.02

STANDARD DRAWINGS AND DETAILS

SHEET NO.

3

3/25/2015

SUMMARY OF PAY ITEMS						
ITEM	UNIT	QUANTITY TOTAL				
NUMBER	NUMBER DESCRIPTION UN					
101-1	MOBILIZATION	LS	1			
102-1	MAINTENANCE OF TRAFFIC	LS	1			
104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1			
110-1-1	CLEARING & GRUBBING	LS	1			
120-9	EXCAVATION, EMBANKMENT, AND GRADING					
327-70-6	MILLING EXISTING ASPHALT PAVEMENT (1.5" AVG DEPTH)	SY	150			
334-1-13	TYPE SP-9.5 ASPHALTIC CONCRETE (1.5") (TRAFFIC LEVEL C)	SY	150			
425-1-341	INLETS, CURB, TYPE P-4, <10'		1			
430-175-118	PIPE CULVERT, STEEL REINFORCED CONCRETE, CLASS III, ROUND, 18"		32			
520-1-8	CONCRETE CURB & GUTTER (MIAMI)	LF	120			
522-1	CONCRETE SIDEWALK, 4" THICK (INCLUDES COMPACTION)	SY	32			
522-2	CONCRETE SIDEWALK, 6" THICK (INCLUDES COMPACTION)	SY	28			
570-1-2	PERFORMANCE TURF (SOD)	SY	150			
900-1	AS-BUILT PLANS		1			
900-2	INDEMNIFICATION	LS	1			
900-3	GROUNDWATER TREATMENT AND DISPOSAL	DA	30			
900-4	900-4 BAFFLE BOX EA 1					

## PAY ITEM FOOTNOTES

- 102-1 INCLUDES ALL ITEMS OF MAINTENANCE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO,
  THE DESIGN OF THE MAINTENANCE OF TRAFFIC PLAN BY THE CONTRACTOR AND APPROVAL OF THE PLANS BY ORANGE COUNTY TRAFFIC ENGINEERING AND HIGHWAY CONSTRUCTION. ALSO INCLUDES ALL TEMPORARY AND PERMANENT STRIPING, REMOVAL OF EXISTING AND TEMPORARY STRIPING VIA HYDRO BLASTING, SIGNING, FLAGGERS, DETOURING TRAFFIC, ETC. REQUIRED TO MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD AND THE FDOT ROADWAY AND DESIGN STANDARDS, 2014 EDITION, ATTENTION IS DIRECTED TO THE 600 SERIES INDEX NUMBERS. NOTE THAT THE MAINTENANCE OF TRAFFIC PLAN SHOWN IN THE CONSTRUCTION PLANS IS FOR INFORMATION ONLY, FINAL PLAN TO BE SUBMITTED TO AND APPROVED BY THE COUNTY. THE MAINTENANCE OF TRAFFIC PLAN DONE BY THE CONTRACTOR SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- 104-14 INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION CONTROL INCLUDING, BUT NOT LIMITED TO SYNTHETIC BALES, TURBIDITY BARRIERS, SILT FENCES, TEMPORARY GRASSING, DEWATERING AND TEMPORARY DIVERSION 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 CONCRETE CURBS, DRIVEWAYS, STRUCTURES, WALLS, BRICK WALLS, VARIOUS TYPES OF FENCES, CAPPING WELLS, REMOVAL AND DISPOSAL OF SEPTIC TANKS AND DRAIN FIELDS, UNDERGROUND STORAGE TANKS, PAVEMENT, BASE, DRAINAGE STRUCTURES AND PIPES, AND TRIMMING OF TREES AND SHRUBS AS REQUIRED TO CONSTRUCT THE PROJECT. ALSO INCLUDES THE COST FOR SAWCUTTING EXISTING PAVEMENT AND CONCRETE
- 120-9 INCLUDES THE COST OF ALL EARTHWORK OPERATIONS TO CONSTRUCT THE PROJECT.
- INCLUDES THE COST OF INCIDENTAL ADDITIONAL PIPE, CONCRETE COLLARS (PER FDOT INDEX 280), AND ANY ADDITIONAL MATERIAL/METHOD NEEDED TO MAKE CONNECTIONS TO EXISTING PIPE WHERE EXISTING STRUCTURES ARE BEING REPLACED TO MATCH EXISTING REMAINING PIPE. ALSO INCLUDES THE COST OF ALL ITEMS REQUIRED FOR VIDEO INSPECTION OF THE EXISTING 8" CLAY PIPE WITHIN THE RIGHT-OF-WAY AND THE COST OF TEMPORARY SHEET PILE.
- 430-175-118 INCLUDES THE COST OF SAWCUTS, PAVEMENT, BASE & SUBGRADE REPLACEMENT PER THE OPEN CUT DETAIL ON THE STANDARD DRAWINGS AND DETAILS SHEET.
  - INCLUDES THE COST OF SOD (MATCH EXISTING), PEGGING THE SOD, FERTILIZER AND WATER AS REQUIRED FOR ESTABLISHMENT OF PERMANENT SODDING. ALSO INCLUDES THE COST OF MOWING UNTIL FINAL PROJECT ACCEPTANCE BY THE COUNTY.

REVISIONS GTC Engineering Corporation DESCRIPTION DESCRIPTION DATE DATE 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

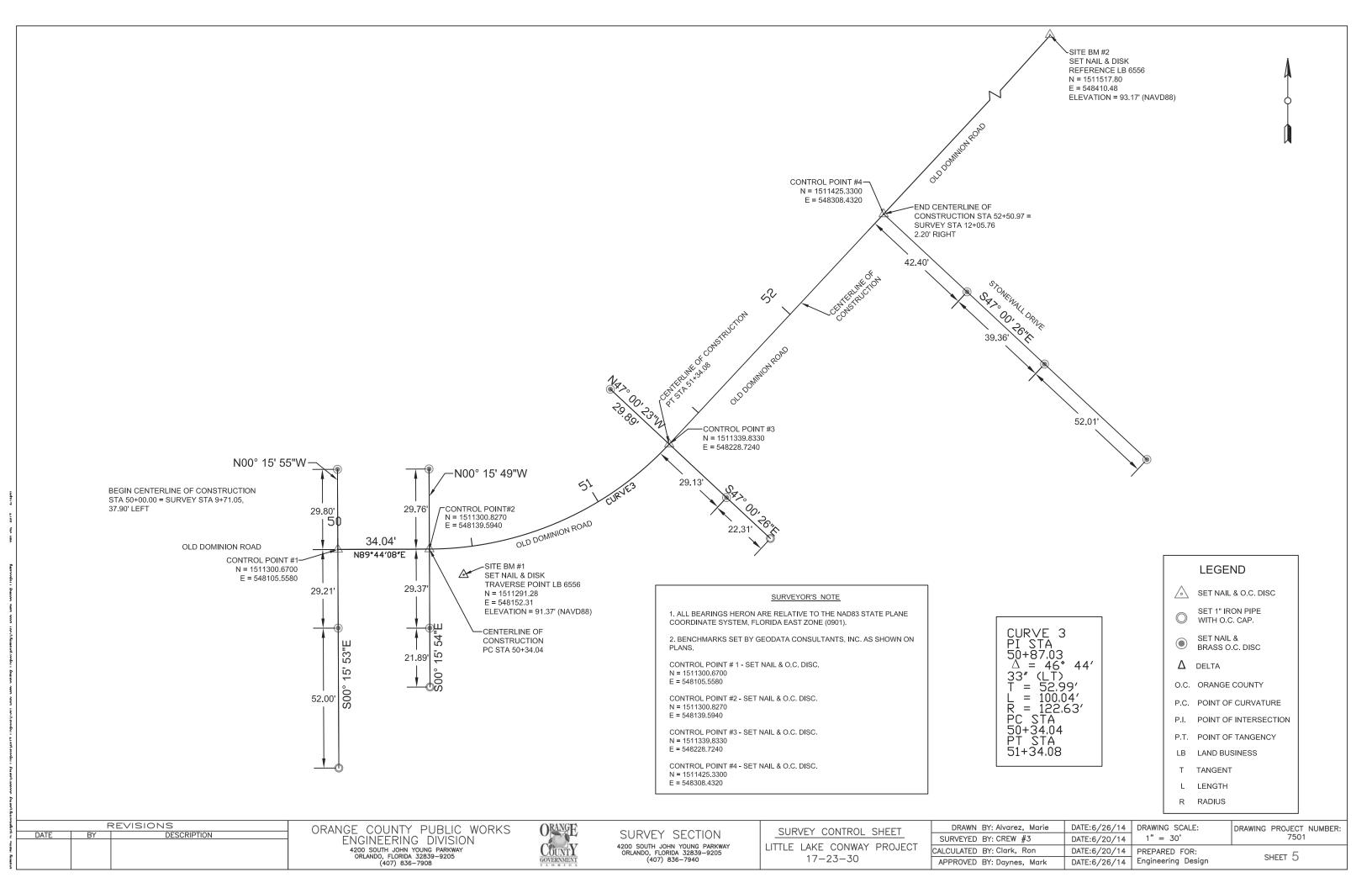
ORANGE COUNTY PUBLIC WORKS

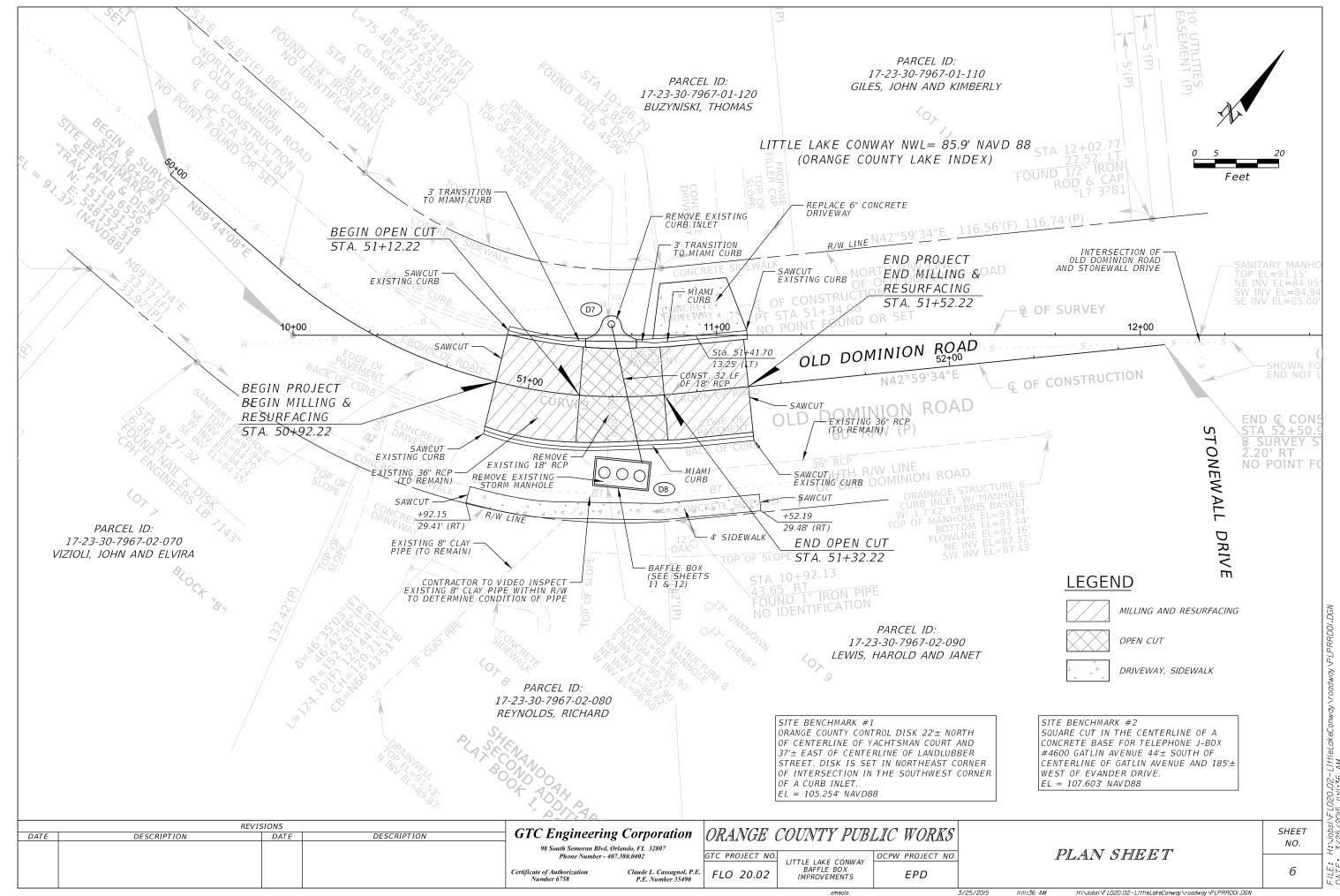
GTC PROJECT NO. FLO 20.02

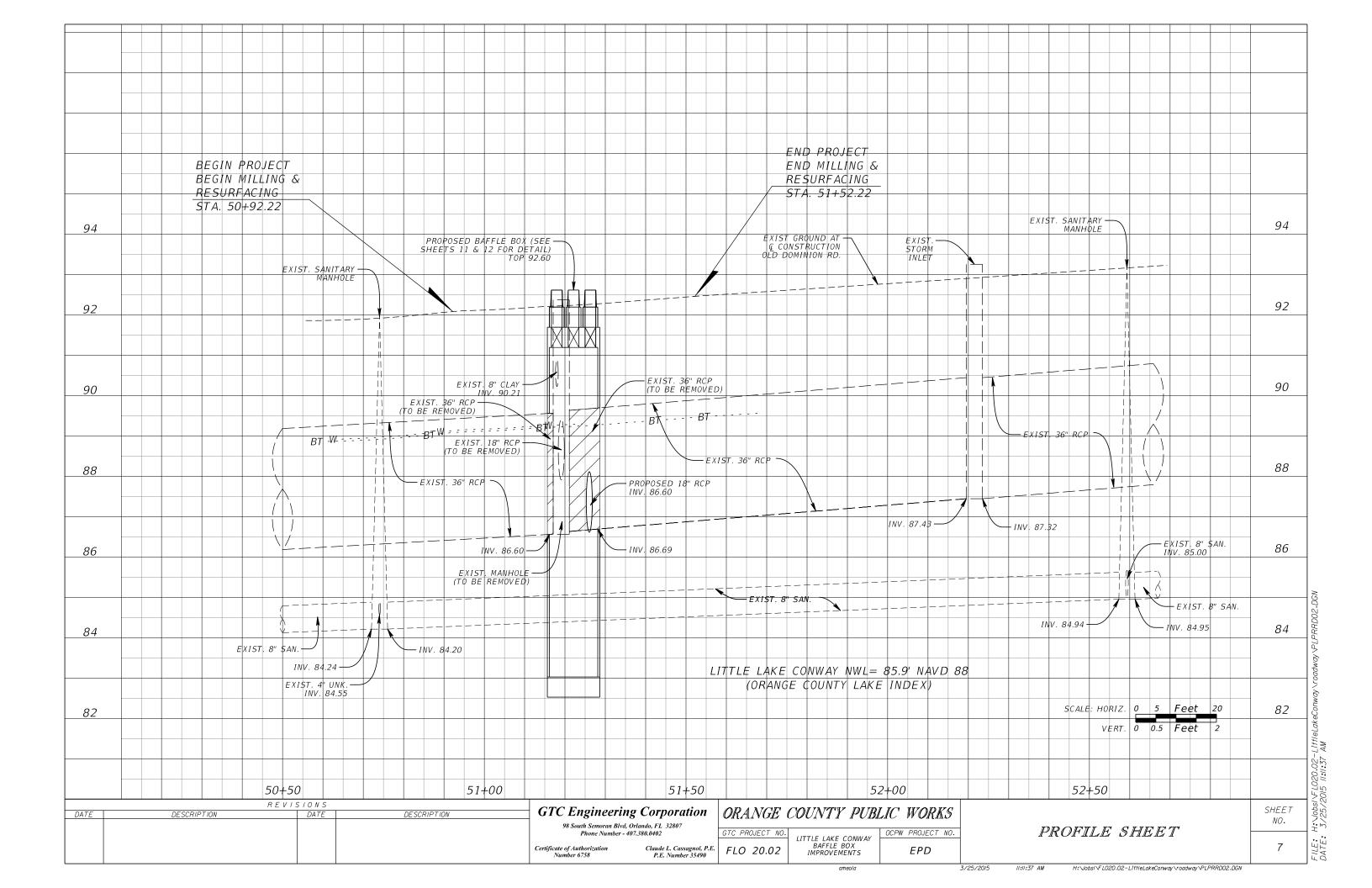
OCPW PROJECT NO. LITTLE LAKE CONWAY BAFFLE BOX IMPROVEMENTS EPD

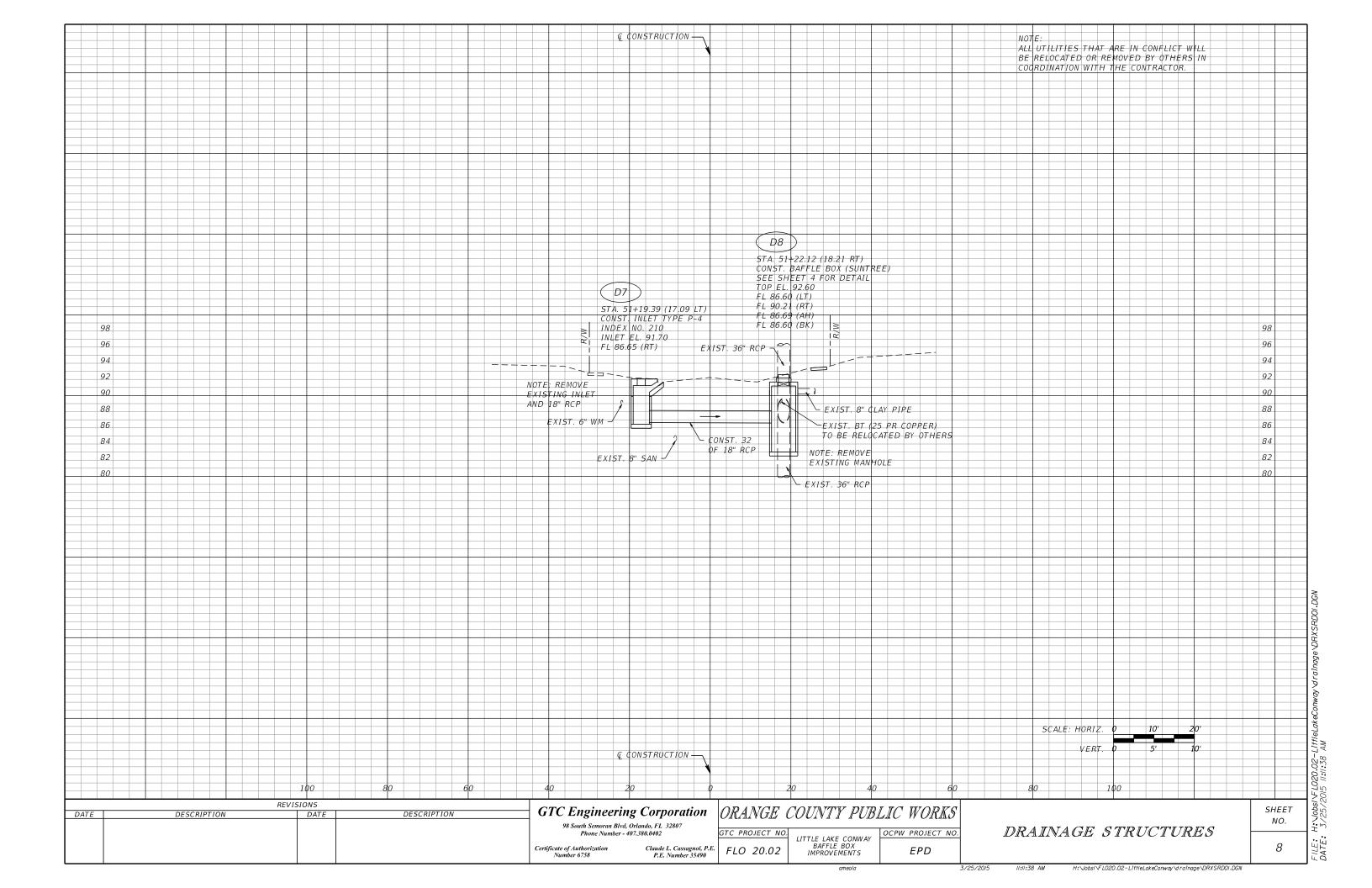
SUMMARY OF PAY ITEMS

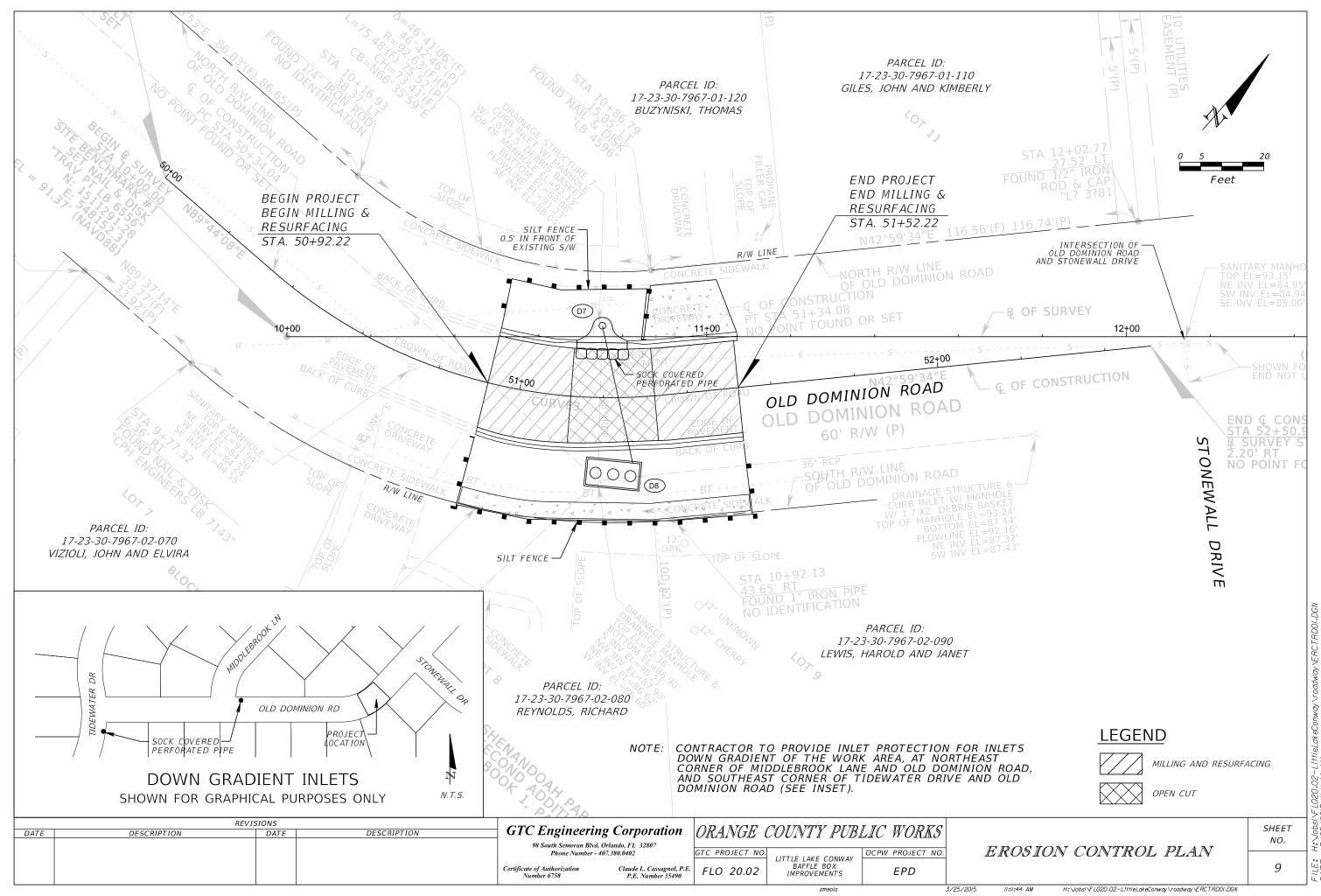
SHEET NO.

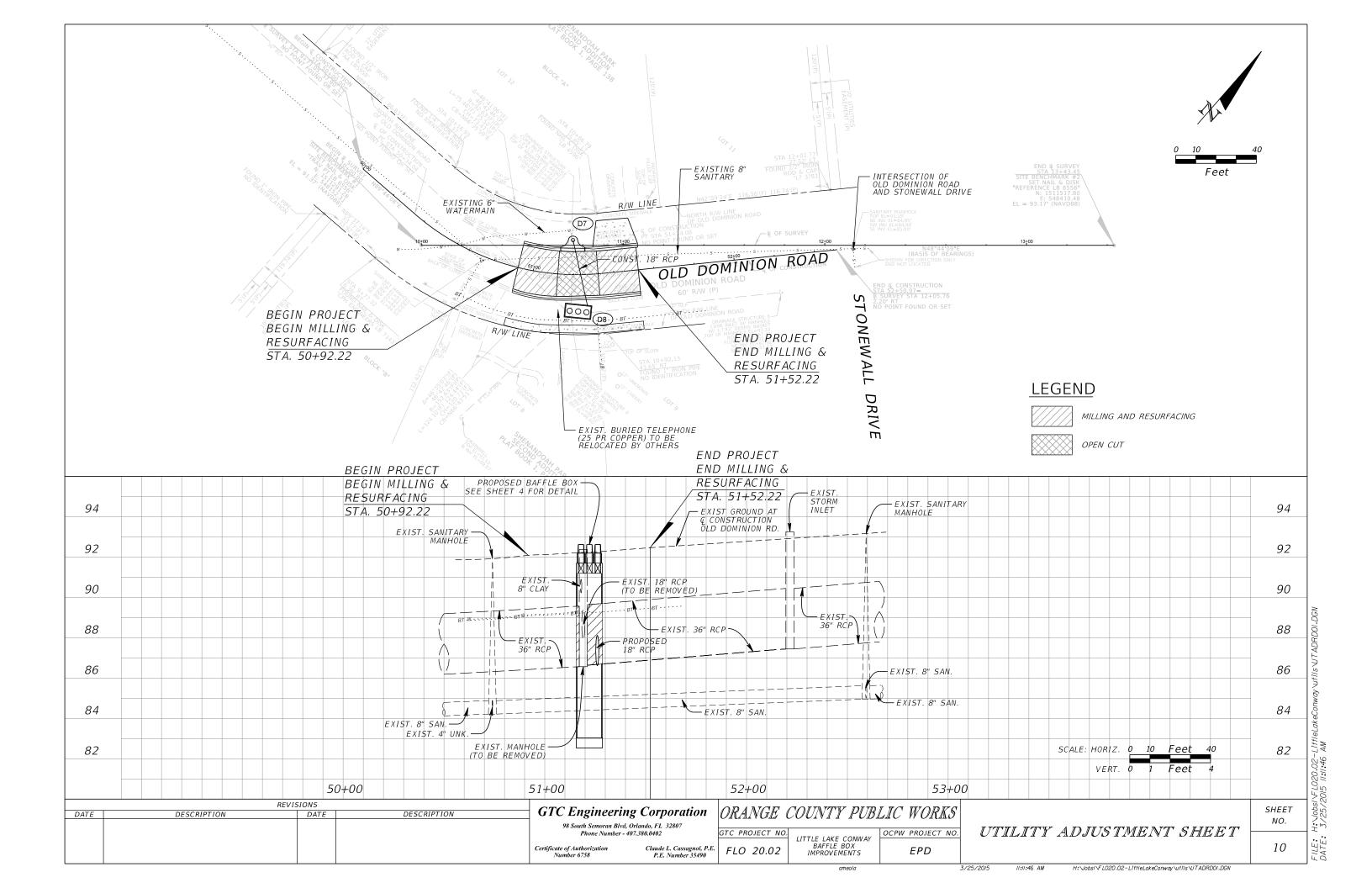


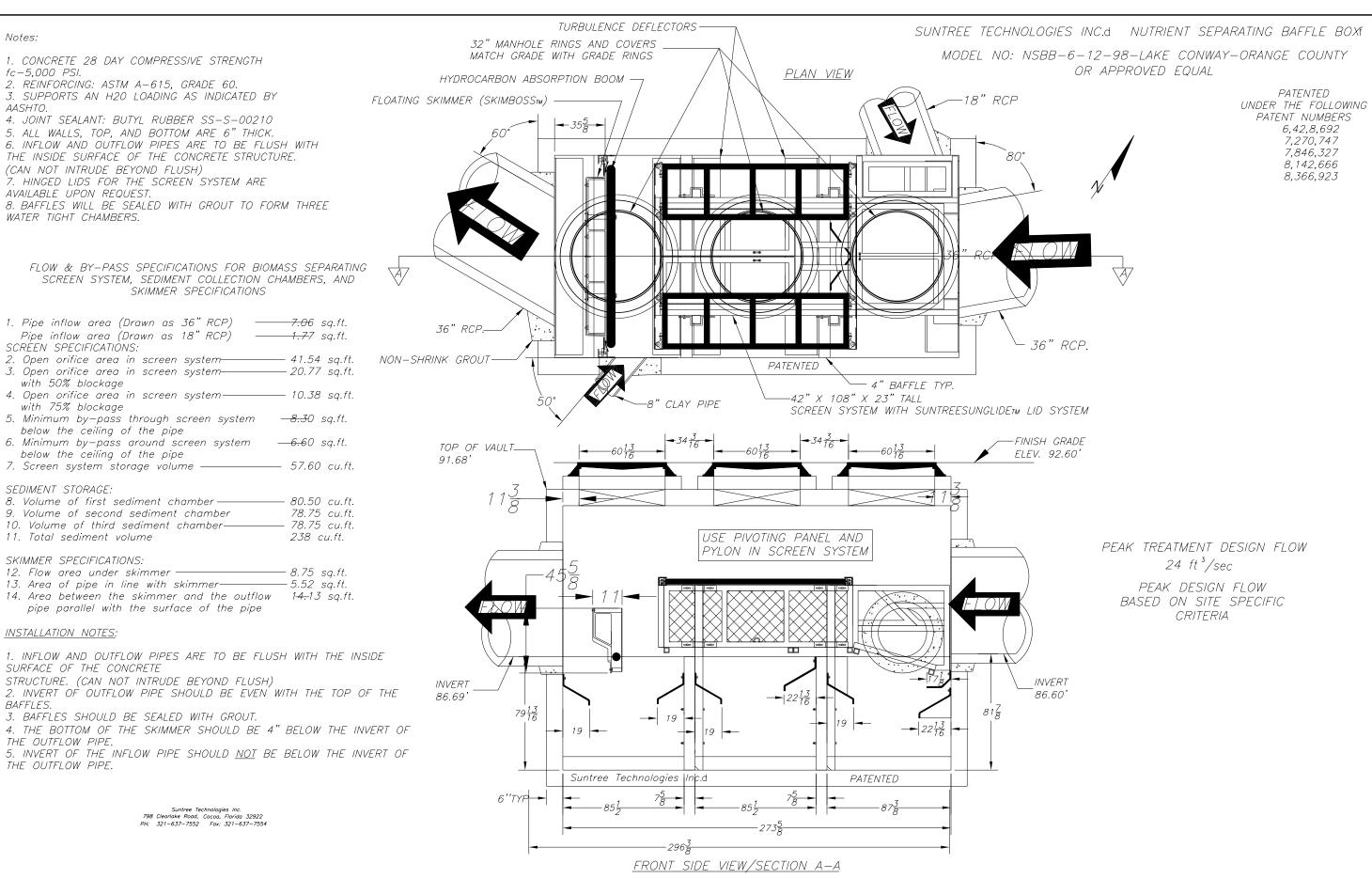












**REVISIONS** SUNTREE TECHNOLOGIES INC.d 798 CLEARLAKE RD. SUITE #2 ORANGE COUNTY PUBLIC WORKS DESCRIPTION DESCRIPTION DATE COCOA, FL. 32922 GTC PROJECT NO. OCPW PROJECT NO. LITTLE LAKE CONWAY BAFFLE BOX IMPROVEMENTS DRAFTER: T.H.2. UNITS =INCHES FLO 20.02 STUART D. GORKA-PE FL REG# 66059

BAFFLE BOX DETAILS

SHEET NO.1 OF 2

11

PATENTED

6,42,8,692

7,270,747

7,846,327

8,142,666

8,366,923

