



LEGEND

GRID INDEX

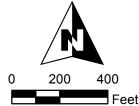
PROJECT AREA

CONNECT TO

EXISTING DRAINAGE INLET

PROPOSED UNDERDRAIN

PARCELS



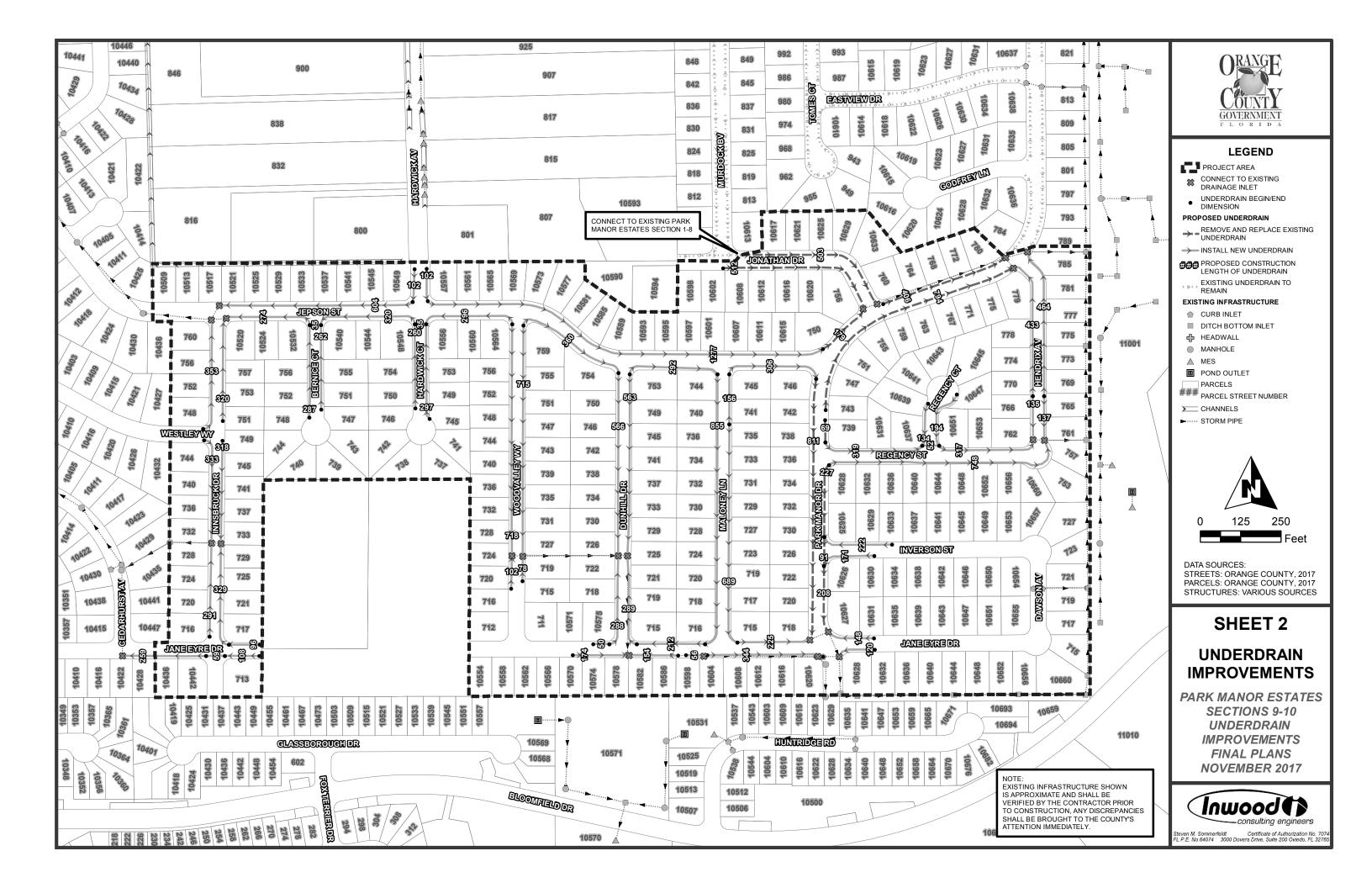
DATA SOURCES: STREETS: ORANGE COUNTY, 2017 PARCELS: ORANGE COUNTY, 2017 STRUCTURES: VARIOUS SOURCES

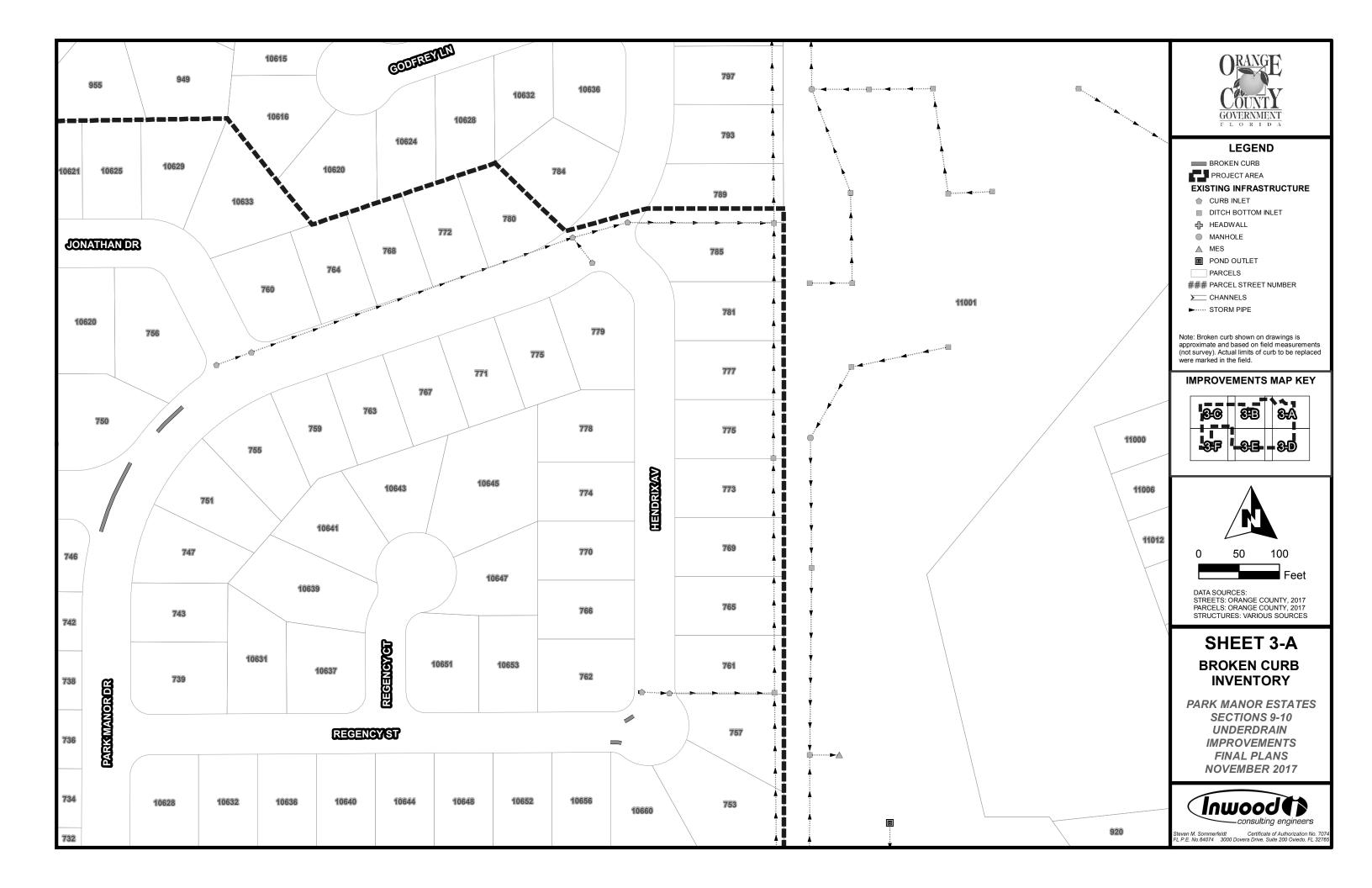
SHEET 1 OVERVIEW MAP

PARK MANOR ESTATES
SECTIONS 9-10
UNDERDRAIN
IMPROVEMENTS
FINAL PLANS
NOVEMBER 2017

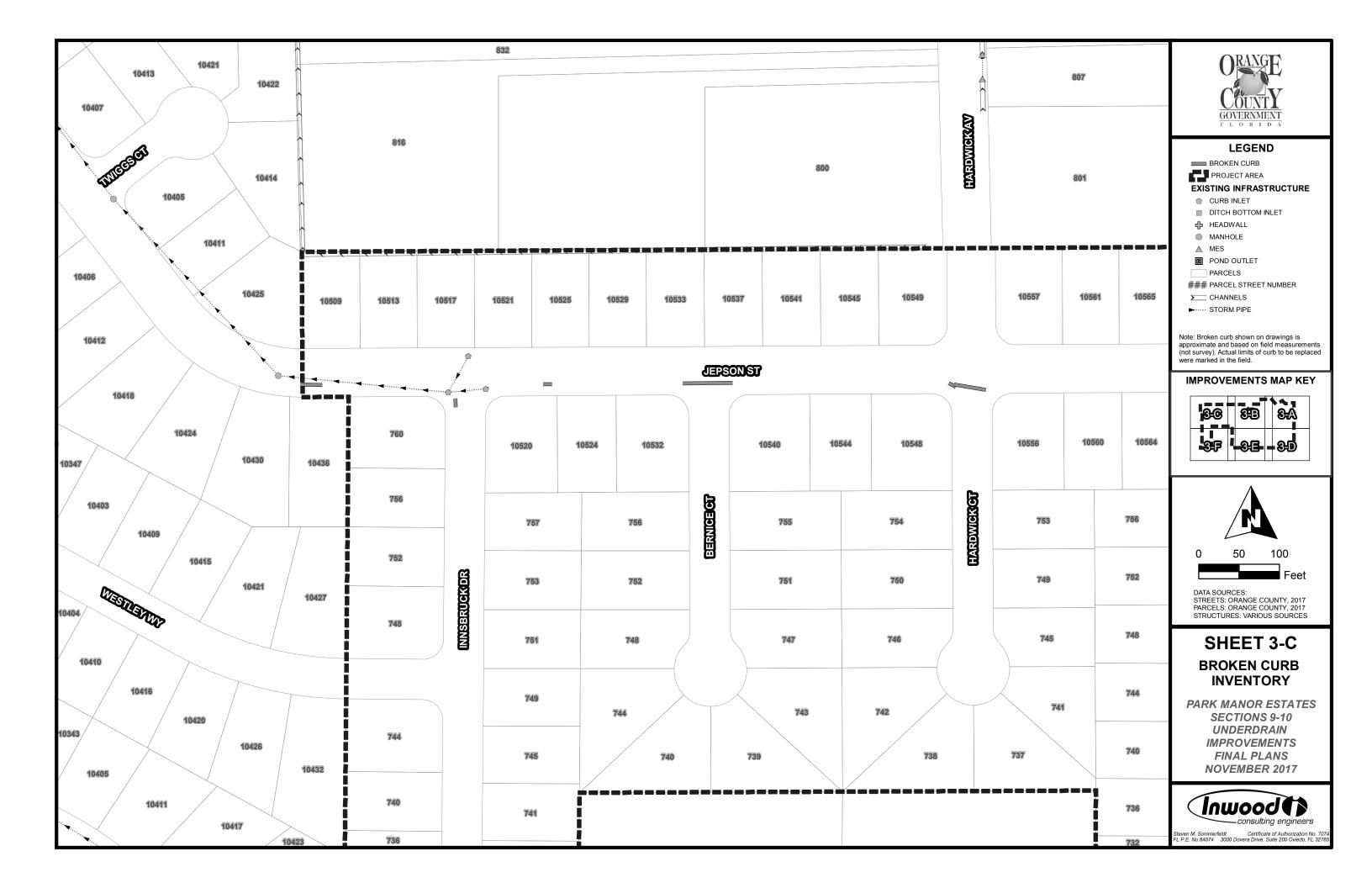


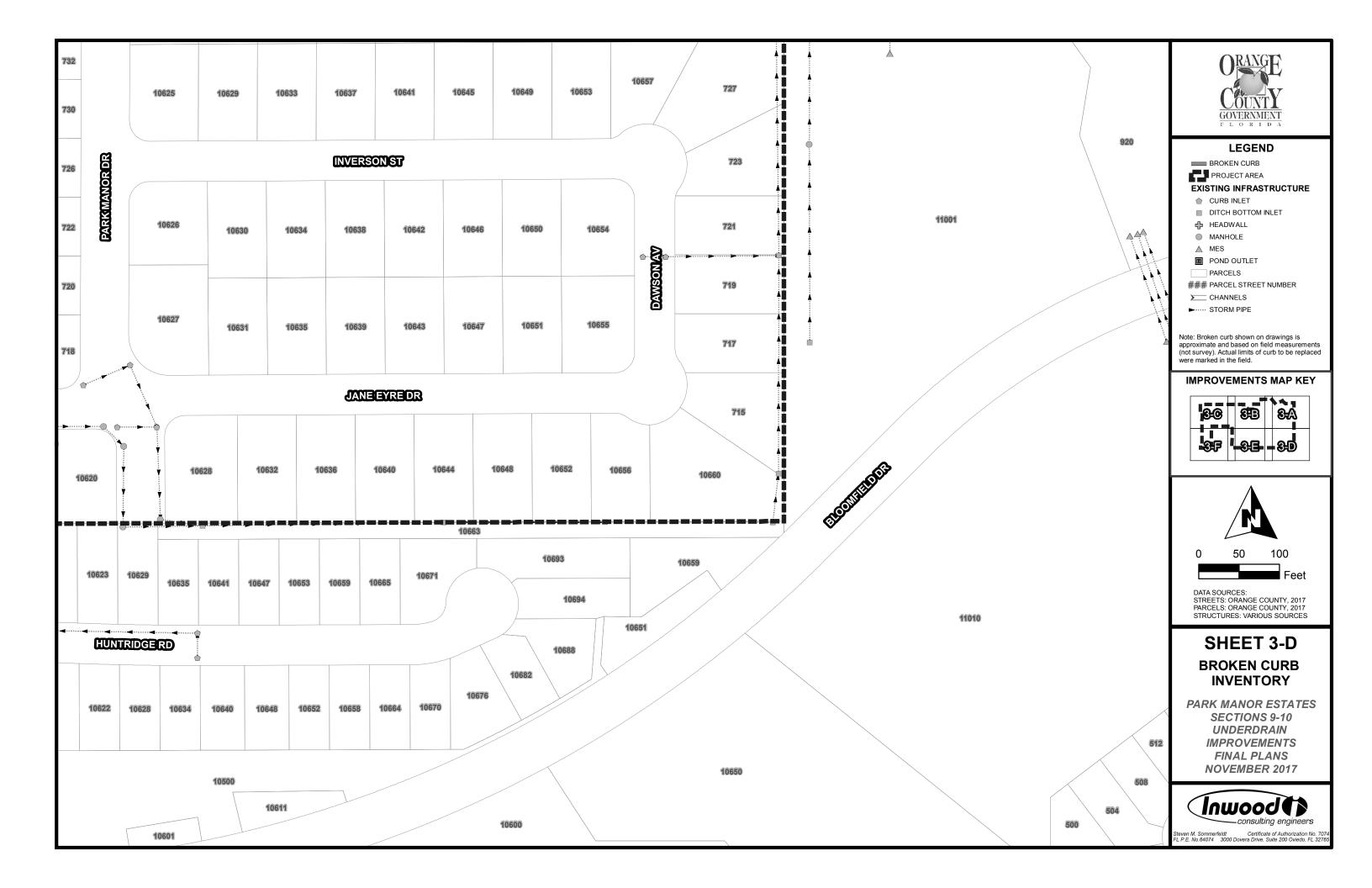
Steven M. Sommerfeldt Certificate of Authorization No. 7074
FL. P.E. No. 64074 3000 Dovera Drive. Suite 200 Oviedo, FL 32765

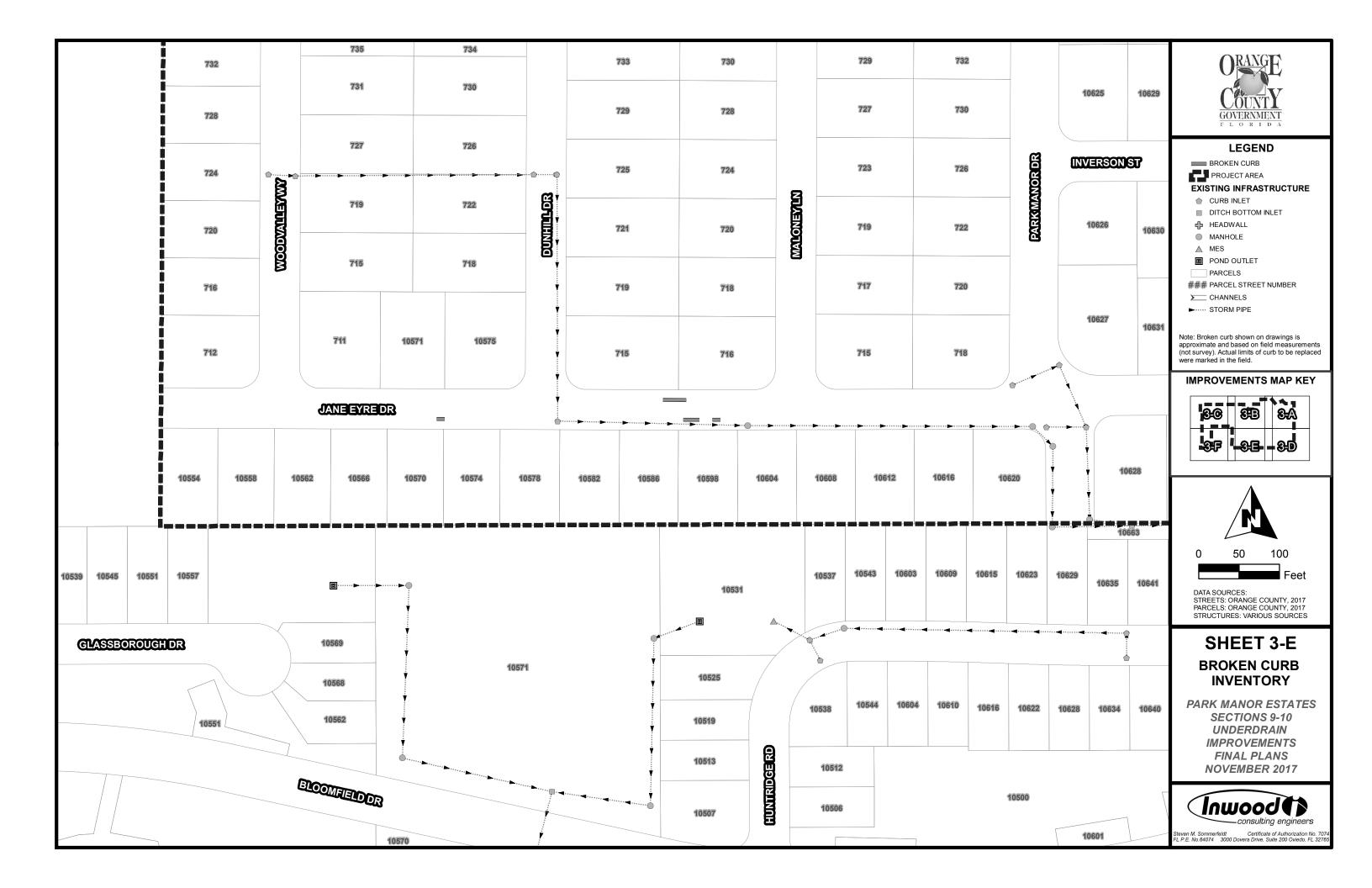


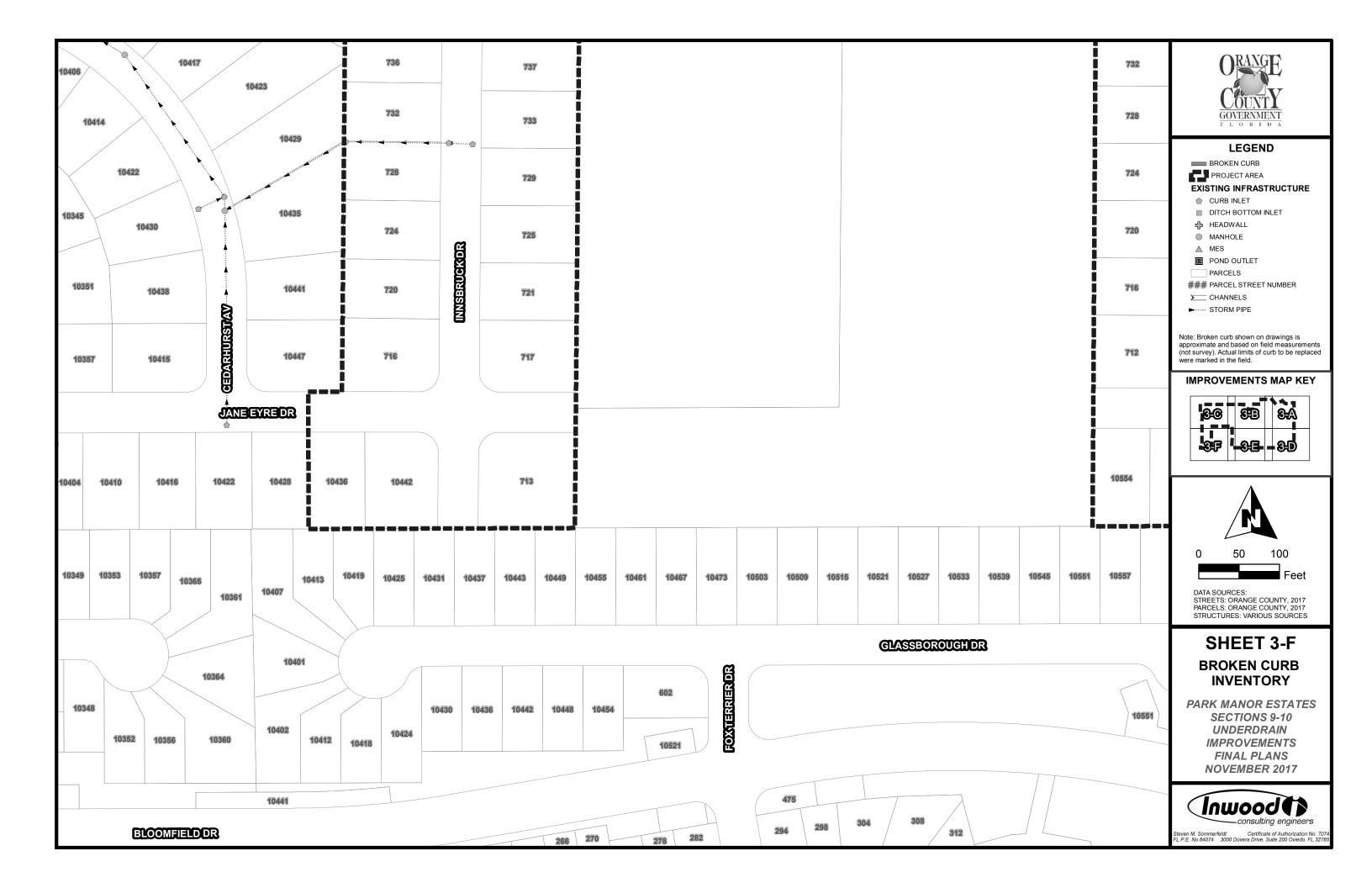








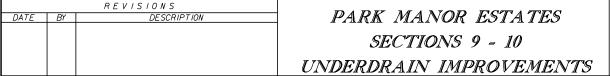




STREET	SUMMARY OF DRIVEWAY REPLACEMENT (6" THICK)		SUMMARY OF SIDEWALK REPLACEMENT (4" THICK)	SUMMARY OF UNDERDRAIN	
	# OF DRIVEWAYS	AREA (SY)	AREA (SY)	TOTAL UNDERDRAIN LENGTH (FT)	
BERNICE CT	4	81	18	584	
DUNHILL DR	21	493	107	1,706	
HARDWICK AV	0 0 27		27	204	
HARDWICK CT	5	107	0	592	
HENDRIX AV	13	305 89		1,169	
INNSBRUCK DR	22	469	129	1,944 393 2,005 3,729	
INVERSON ST	3	64 393 960	13 151 92		
JANE EYRE DR	16				
JEPSON ST	36				
JONATHAN DR	10	267	49	1,015	
MALONEY LN	22	516	40	1,700	
PARK MANOR DR (SOUTH)	26	638	89	2,785	
REGENCY CT	1	20	4	380	
REGENCY ST	14	329	226	1,384	
WESTLEY WY	0	0	9	0	
WOODVALLEY WY	20	0 427 53 1,613			
TOTALS:	213	5,070	1,100 21,203		

	TOTAL BROKE	N DROP CURB	TOTAL BROKEN VALLEY CURB	
STREET	MEASURED LENGTH ¹ (LF)	ROUNDED LENGTH ² (LF)	MEASURED LENGTH ¹ (LF)	ROUNDED LENGTH ² (LF)
BERNICE CT	-	-	-	-
DAWSON AV	-		- - -	- - - - - - 120 - - 100
DUNHILL DR	-			
HARDWICK CT	-			
HENDRIX AV	-	-	-	
INNSBRUCK DR	11	20	-	
INVERSON ST	-			
JANE EYRE DR	69	70	-	
JEPSON ST	70	90 360	113	
JONATHAN DR	337			
MALONEY LN	-	-	-	
PARK MANOR DR	44 27 -	50 40 - -	93 - - -	
REGENCY ST				
WESTLEY WY				
WOODVALLEY WY	-			
OPEN CUT RESTORATION	300	300	15	20
TOTALS:	858	930	221	240

- REPLACEMENT CURB SHALL BE EITHER NON-STANDARD DROP CURB OR NON-STANDARD VALLEY GUTTER. REFER TO CROSS SECTIONS (THIS SHEET) FOR DETAILS.
- DAMAGED CURB WAS IDENTIFIED BY THE COUNTY AND INWOOD ON 7/27/2017 & 7/31/2017. ANY ADDITIONAL CURB IDENTIFIED TO BE REPLACED OUTSIDE THE LIMITS SHOWN IN THE PLANS SHALL BE BROUGHT TO THE COUNTY'S ATTENTION IMMEDIATELY FOR CONSIDERATION.
- ² THE ROUNDED TOTAL BROKEN CURB WAS CALCULATD BY ROUNDING THE APPROXIMATE QUANTITY OF TOTAL BROKEN CURB TO THE NEXT MULTIPLE OF 10 (THE REPLACEMENT OF BROKEN CURB IS ESTIMATED TO BE INSTALLED IN 10-FT SECTIONS).







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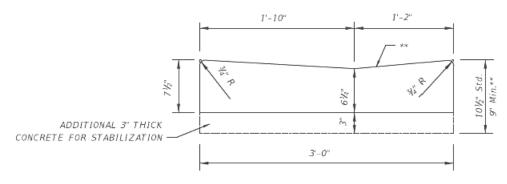
SHEET NO.

SLOPE TO FIT DRIVEWAY ADDITIONAL 3" THICK CONCRETE FOR STABILIZATION - MATCH EXISTING 2'-0"

MATCH EXISTING -

DROP CURB (MATCH EXISTING)

* OTHER THAN THE ADDITIONAL 3" THICKNESS FOR STABILIZATION, ALL ASPECTS OF DROP CURB SHALL MATCH EXISTING CONDITIONS.

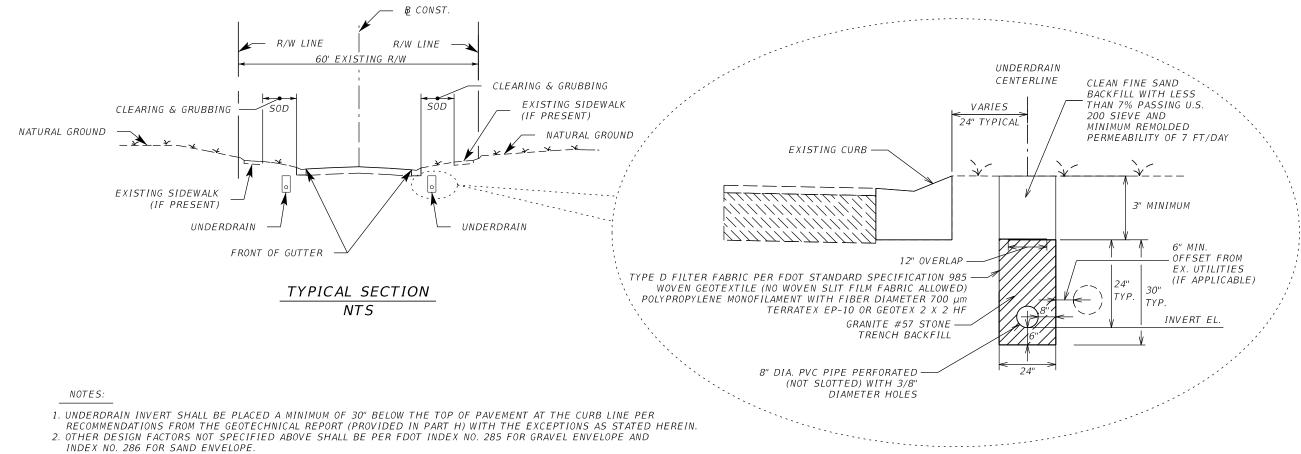


VALLEY GUTTER

** REFER TO FDOT INDEX 300 FOR DETAILS. OTHER THAN THE ADDITIONAL 3" THICKNESS FOR STABILIZATION, ALL ASPECTS OF VALLEY GUTTER SHALL CONFORM TO FDOT INDEX 300.

NOTE:

QUANTITIES ARE APPROXIMATE BASED ON 700 SERIES DESIGN LEVEL OF DETAIL AND ARE EXPECTED TO FLUCTUATE BASED ON ACTUAL FIELD CONDITIONS AND FINAL CONSTRUCTION QUANTITIES.



- 3. UNDERDRAIN SHALL BE PLACED TO PROVIDE POSITIVE FLOW TO OUTLET LOCATION. TYPICAL GRADE ON UNDERDRAIN PIPE SHALL BF 0.2%
- 4. UNDERDRAIN OUTLET PIPE SHALL BE CONSTRUCTED UNDER DRIVEWAYS AND SIDE STREETS AND FOR CONNECTIONS TO DRAINAGE STRUCTURES (PERFORATED UNDERDRAIN SHALL BE USED UNDER SIDEWALKS). MIN. 4' OF UNDERDRAIN OUTLET PIPE FOR CONNECTIONS TO DRAINAGE STRUCTURES (TYP.).
- 5. UNDERDRAIN LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE ADJUSTMENTS BASED ON FIELD CONDITIONS.
- 6. INSTALL SOLID PVC CLEANOUTS FOR JET CLEANING AT EVEN INTERVALS NO MORE THAN 300 FEET APART DEPENDING ON THE LENGTH OF THE UNDERDRAIN PER THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL ATTEMPTS TO LOCATE CLEANOUTS NEAR ADJACENT PROPERTY LINES TO AVOID CLEANOUTS BEING PLACED IN "FRONT YARDS".
- 7. STANDARD 8" FLEXIBLE FDOT UNDERDRAIN PIPE MAY BE SUBSTITUTED FOR RIGID PIPE AROUND 90 DEGREE BENDS AT ROAD INTERSECTIONS.
- 8. SMOOTH BENDING OF THE PERFORATED PIPES SHALL BE ALLOWED FOR ALL DEFLECTION ANGLES LESS THAN OR EQUAL TO 45 DEGREES PROVIDED THAT THE MINIMUM RADIUS OF CURVATURE IS SIX (6) TIMES THE OUTER DIAMETER (OD) OF THE PIPES.

 9. CLEANOUTS ARE REQUIRED FOR ALL DEFLECTION ANGLES GREATER THAN 45 DEGREES ALONG PIPES.
- 10. CLEANOUTS SHALL BE CONSTRUCTED PER FDOT INDEX 286, THE PROJECT SPECIFICATIONS AND GUIDELINES FROM THE GEOTECHNICAL REPORT
- 11. CONTRACTOR SHALL ADJUST UNDERDRAIN AROUND OR VERTICALLY BELOW UTILITIES TO AVOID CONFLICTS WHENEVER POSSIBLE. IF SITE CONDITIONS DO NOT SUPPORT ROUTING AROUND OR BELOW UTILITIES THEN THE UNDERDRAIN MAY BE ROUTED ABOVE CONFLICTS, BUT THE UNDERDRAIN MUST BE READJUSTED BACK DOWN TO THE REGULAR ALIGNMENT WITHIN 2 FEET ON EITHER SIDE OF THE CONFLICT AFTER IT HAS BEEN CLEARED. LOCATIONS WHERE THE UNDERDRAIN IS REROUTED TO AVOID UTILITY CONFLICTS MUST BE RECORDED IN THE AS-BUILT PLANS.
- 12. TO FACILITATE UTILITY CONFLICT ADJUSTMENTS, THE UNDERDRAIN ENVELOPE GRAVEL MEDIA DEPTH AND GEOTEXTILE MAY BE REDUCED TO THE EXTENT NECESSARY TO ACCOMMODATE THE CONFLICTING UTILITY, BUT THE CONTRACTOR SHALL TRANSITION THE UNDERDRAIN ENVELOPE DEPTH BACK TO THE DESIGNED DEPTH WITHIN 2 FEET ON EITHER SIDE OF THE CONFLICT.
- 13. CONTRACTOR SHALL COORDINATE THE REMOVAL OF LANDSCAPING PLANTS WITHIN THE RIGHT OF WAY WITH THE COUNTY
- 14. UNDERDRAIN SHALL BE CONSTRUCTED WITHIN THE ORANGE COUNTY RIGHT-OF-WAY.
- 15. UNDERDRAIN JUNCTION BOXES SHALL BE NECESSARY ONLY WHEN JOINING DISSIMILAR PIPES THAT ARE NOT COMPATIBLE WITH JOINING AND SEALINGS VIA A TYPICAL BELL AND SPIGOT. IF THIS SCENARIO IS ENCOUNTERED, JUNCTION BOX SHALL BE PROVIDED PER THE PIPE MANUFACTURER'S SPECIFICATIONS AND WILL REQUIRE SHOP DRAWING APPROVAL PRIOR
- 16. GRADING AND SODDING OF DISTURBED AREAS SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
- 17. STORAGE OF CONSTRUCTION MATERIALS OR WASTE FOR PERIODS EXCEEDING 7 CALENDAR DAYS SHALL NOT BE ALLOWED OUTSIDE THE DESIGNATED STAGING AREA.
- 18. UNDERDRAIN BENDS SHALL NOT BE CONSTRUCTED BY USING MULTIPLE PIPE FITTINGS TO CONNECT PIPE SEGMENTS IN A ZIG-ZAG PATTERN

	REVISIONS		
PARK MANOR ESTATES	DESCRIPTION	BY	DATE
SECTIONS 9 - 10			
UNDERDRAIN IMPROVEMENT			





UNDERDRAIN TYPICAL SECTION SHEET NO.

GENERAL NOTES:

- 1. ALL PERSONAL PROPERTY, WITHIN THE DRAINAGE EASEMENTS AND RIGHTS-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE RELOCATED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. PAYMENT WILL BE INCLUDED IN CLEARING AND GRUBBING
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE TURF, CURBS, MAILBOXES, SIGN POSTS AND BASES, DELINEATOR POSTS, FENCES (INCLUDING ELECTRONIC), GUY-WIRES, LANDSCAPED AREAS, SPRINKLERS, PRIVATE DRAINS, PAVEMENT ASPHALT (ASPHALT REPAIRS SHALL FOLLOW FDOT SPECIFICATIONS OR AS OTHERWISE INSTRUCTED BY THE COUNTY'S REPRESENTATIVE), ETC. THAT ARE NOT INCLUDED AS PART OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING IT TO ITS ORIGINAL CONDITION AND/OR REPLACEMENT THEREOF, PRIOR TO THE END OF THE PROJECT. RUT DAMAGED AREAS SHALL BE CUT-OUT, BACKFILLED WITH CLEAN FILL DIRT AND APPROPRIATE SOD SHALL BE PUT BACK. DISTURBED AREAS THAT ARE MORE THAN 4-INCHES WIDE SHALL BE RESTORED TO ORIGINAL CONDITION BY REMOVING 1-FOOT ALONG THE AREA AND RE-SODDING WITH ADEQUATE IN-KIND SOD. SODDED AREAS SHALL BE MAINTAINED AS SPECIFIED HEREIN. ALL DISTURBED LOCATIONS LESS THAN 4-INCHES WIDE ALONG SIDEWALKS SHALL BE BACKFILLED WITH CLEAN BLACK FILL DIRT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED TO THE CONTRACTOR FOR REPAIRS TO DAMAGES AS SPECIFIED ABOVE. THE SOD SHALL BE WATERED FOR A MINIMUM OF THIRTY (30) DAYS AFTER INSTALLATION TO ENSURE A HEALTHY CONDITION AFTER CONSTRUCTION IS COMPLETED. FINAL INSPECTION MUST REVEAL A WELL-ESTABLISHED STAND AND ROOT SYSTEM. IF SOD HAS NOT ESTABLISHED ITSELF AT THE END OF THIS PERIOD THE CONTRACTOR SHALL REPLACE IT AT NO ADDITIONAL COST TO THE COUNTY.
- 3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING IN GOOD CONDITION ALL CULTIVATED GRASS PLOTS, TREES AND SHRUBS AFFECTED BY THE WORK, THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION, ALL MAINTAINED SHRUBBERY AND GRASS STRIPS THAT ARE REMOVED OR DESTROYED DUE TO CONSTRUCTION OPERATIONS. WITH PRIOR COUNTY APPROVAL, ALL EXISTING TREES OR TREE LIMBS INTERFERING WITH INSTALLATION, WITHIN THE RIGHT-OF-WAY, ARE TO BE NEATLY TRIMMED OR REMOVED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF THE UNDERDRAIN. ALL DISTURBED AREAS SHALL BE SODDED TO MATCH EXISTING SOD AND OF THE SAME TYPE UNLESS OTHERWISE DIRECTED BY THE COUNTY REPRESENTATIVE. SOD PLACED ADJACENT TO THE ROAD SHALL BE PLACED ONE (1) INCH BELOW THE TOP OF THE ROAD SURFACE. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
- 4. INSTALL TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
- 5. PEGGED SOD TO BE PLACED ON ALL SLOPES 1:3 OR STEEPER.
- 6. THE CONTRACTOR SHALL DISPOSE OF DEBRIS ONLY IN A COUNTY APPROVED LANDFILL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS IN EFFECT AT THE TIME OF DISPOSAL, COST INVOLVED WITH THE DISPOSAL OF THE DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL UNSUITABLE MATERIAL DURING THE INSTALLATION OF THE UNDERDRAIN. THE COUNTY MAY REQUEST RECEIPTS AT ANY TIME DURING THE CONTRACT SHOWING THE LOCATION OF THE DISPOSAL SITES FOR REMOVED MATERIAL.
- 8. THE CONTRACTOR SHALL KEEP THE WORK AREA FREE FROM ACCUMULATIONS OF WASTE MATERIALS, RUBBISH AND DEBRIS. ALL TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, AND SURPLUS MATERIALS SHALL BE KEPT UNDER CONTROL, AND SHALL LEAVE THE WORK SITE CLEAN AND READY FOR OCCUPANCY BY THE COUNTY. ALL APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S REGULATIONS SHALL BE FOLLOWED AT ALL TIMES.
- 9. INLET OPENINGS SHALL BE KEPT FREE FROM THE DEBRIS GENERATED DURING OPERATIONS. THE CONTRACTOR SHALL USE BETTER MANAGEMENT PRACTICE (BMP'S) AND MUST BE PLACED IN FRONT OF ALL INLET OPENINGS WITHIN THE WORK ZONE. THESE AREAS SHALL BE MAINTAINED ON A DAILY BASIS. CONCRETE SHALL NOT BE WASHED INTO DRAINS OR STORM DRAIN INLETS AT ANY TIME. FAILURE TO ADHERE TO THIS SHALL RESULT IN A REQUEST TO JET OUT AFFECTED PIPES AND DRAINS AT CONTRACTOR'S EXPENSE OR REIMBURSING THE COUNTY FOR THE CLEAN-UP EFFORT CARRIED OUT BY COUNTY PERSONNEL.
- 10. THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION THOSE PORTIONS OF THE WORK SITE NOT DESIGNATED FOR ALTERATION BY THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE COUNTY.

- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION DISRUPTION OF SERVICE, OR CLARIFICATION OF UTILITY ACTIVITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING A UTILITY, WHETHER UNDERGROUND OR OVERHEAD, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANY DURING THE REMOVAL AND RELOCATION OPERATIONS, IN ORDER THAT THESE OPERATIONS MAY PROGRESS IN A REASONABLE MANNER AND THAT SERVICE RENDERED BY THESE PARTIES WILL NOT BE INTERRUPTED. ANY DELAY OR INCONVENIENCE BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATES OF UTILITIES PRIOR TO STARTING OPERATIONS. TICKETS SHALL BE KEPT ON SITE AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY RESIDENTS OF ANY DAMAGES (IRRIGATION, UTILITIES, ETC.) AND SHALL REPAIR DAMAGES IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS FOR A PERIOD OF SIX (6) MONTHS AFTER ACCEPTANCE OF THE PROJECT AND WILL BE REQUIRED TO CORRECT ANY FAILURES TO REPAIRED ITEMS AND/OR DAMAGES RELATED TO SUCH REPAIRS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED TO THE CONTRACTOR FOR REPAIR TO DAMAGES AS SPECIFIED ABOVE.
- 13. PRIOR TO EXCAVATING IN THE VICINITY OF A GAS PIPELINE THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY AND ORANGE COUNTY IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES, F.S. 553.851, CH. 77-143.
- 14. THE CONTRACTOR SHALL NOTIFY UTILITIES 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH THE FLORIDA UNDERGROUND FACILITIES DAMAGE PREVENTION AND SAFETY ACT, F.S. 556.101-116. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK. SUNSHINE STATE ONE CALL OF FLORIDA (SSOCOF): 1-800-432-4770.
- 15. THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTES, CHAPTER 77-153, REGARDING NOTIFICATION OF EXISTING GAS AND OIL PIPELINE COMPANY OWNERS PRIOR TO EXCAVATING.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MEASURES AND ANY DEWATERING AND WATER CONTROL PROCEDURES (INCLUDING PUMPING) REQUIRED FOR SUCCESSFUL COMPLETION OF THE UNDERDRAIN INSTALLATION. DAMAGES INCURRED DUE TO THE CONSTRUCTION OF THE UNDERDRAIN AND RELATED WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER BY THE CONTRACTOR AT NO COST TO THE COUNTY.
- 17. ANY DAMAGE TO CURBS, OTHER CONCRETE STRUCTURES AND ROADS RESULTING FROM THE CONTRACTOR'S OPERATIONS AND THAT ARE NOT DESIGNATED TO BE WITHIN THE SCOPE OF WORK AS PART OF THE UNDERDRAIN INSTALLATION SHALL BE REPLACED, NOT PATCHED OR REPAIRED, BY THE CONTRACTOR AT NO COST TO THE COUNTY. SUCH DAMAGED AREAS SHALL BE REPLACED IN ACCORDANCE WITH ORANGE COUNTY AND FDOT SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN THIS CONTRACT OR WHERE AUTHORIZED BY THE COUNTY'S REPRESENTATIVE.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSPECTION OF OPEN TRENCHES, UNDERDRAIN, PANELS, CURBS, AND OTHER WORK PRIOR TO BACKFILLING, POURING CONCRETE, AND RELATED ACTIVITIES FOR COMPLIANCE WITH REQUIRED DEPTH, WIDTH, THICKNESS, ROOT/DEBRIS REMOVAL, PROPER FRAMING, ETC. UNDERDRAIN SHALL BE BUILT IN STRICT COMPLIANCE WITH CONTRACT SPECIFICATIONS. ALL CONCRETE MUST BE POURED AT A UNIFORM THICKNESS AS SPECIFIED BY THE COUNTY'S REPRESENTATIVE (NO UNDER TOLERANCES WILL BE ALLOWED). THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF WORK DETERMINED NOT TO BE IN COMPLIANCE WITH THESE REQUIREMENTS AT NO COST TO THE COUNTY.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENTOF EROSION AND WATER POLLUTION. ALL ROADWAYS, DRIVEWAYS ETC., MUST BE KEPT CLEAN AND HAZARD FREE AT ALL TIMES. ROADWAYS MUST BE SWEPT DAILY TO ENSURE THE SAFETY OF THE MOTORING PUBLIC AND PROTECT EXISTING DRAINAGE SYSTEMS.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DENSITY TESTING REQUIRED AS PER ORANGE COUNTY AND FDOT SPECIFICATIONS AT NO COST TO THE COUNTY.

- 21. THE CONTRACTOR SHALL FURNISH NECESSARY EQUIPMENT TO SATISFACTORILY PERFORM THE WORK REQUIRED UNDER THIS CONTRACT. THE CONTRACTOR SHALL ENSURE ALL EQUIPMENT USED IN THE PERFORMANCE OF THE CONTRACT ON COUNTY PROPERTY IS IN GOOD SAFE WORKING ORDER AND PROPERLY MAINTAINED IN ORDER TO PROTECT THE OPERATOR AND THE PUBLIC. ALL EQUIPMENT ONSITE (INCLUDING PICKUP TRUCKS) SHALL BE IDENTIFIED WITH THE COMPANY LOGO. LEASED EQUIPMENT SHALL HAVE MAGNETIC SIGNS.
- 22. ALL EQUIPMENT USED BY THE CONTRACTOR IS SUBJECT TO INSPECTION BY THE COUNTY'S REPRESENTATIVE. ANY EQUIPMENT ON SITE, WHICH IS DEEMED BY THE COUNTY'S REPRESENTATIVE TO BE INOPERABLE, UNSAFE, OR IMPROPER FOR DESIRED USE, MUST BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AT HIS/HER EXPENSE THE SAME DAY OF THE COUNTY'S DETERMINATION.
- 23. THE CONTRACTOR IS REQUIRED TO USE AMBER FLASHING LIGHTS, BACK-UP ALARMS, ETC. ON ALL EQUIPMENT AND HIS/HER EMPLOYEES MUST BE PROVIDED WITH THE REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AS REQUIRED BY O.S.H.A. AND THE COUNTY.
- 24. EQUIPMENT AUTHORIZED BY THE COUNTY TO BE LEFT ON THE RIGHT-OF-WAY OR COUNTY PROPERTY AFTER DESIGNATED WORK HOURS SHALL BE PLACED OUTSIDE THE CLEAR AND RECOVERY AREA AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, IF EQUIPMENT IS LEFT ON THE RIGHT-OF-WAY, IT SHALL BE MARKED WITH BARRICADES WITH APPROVED STEADY BURNING AMBER LIGHTS.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT CROSS SLOPE AND POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING OPEN CUT RESTORATION. AREAS DETERMINED NOT TO BE IN COMPLIANCE WITH THIS REQUIREMENT SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY.
- 26. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENTS OF THE PROJECT SPECIFICATIONS, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2016), FDOT DESIGN STANDARDS (2016), AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
- 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. 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, AND BOTH SHALL NOTIFY:

STATE GEODETIC ADVISOR c/o FDEP, BUREAU OF SURVEY AND MAPPING 3900 COMMONWEALTH BLVD., MS 105 TALLAHASSEE, FL 32399-300 PHONE 850-245-2606 FAX 850-245-2645

- 29. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE AND MAINTENANCE OF ALL EXISTING RUNOFF DISCHARGES DURING CONSTRUCTION TO AVOID THE TRANSPORT OF SEDIMENT AND ERODIBLE SOILS UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
- 30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A STAGING AREA (APPROVED BY THE ENGINEER) TO STORE EQUIPMENT, SUPPLIES, & MATERIALS, PROVIDE EMPLOYEE PARKING, AND ETC. FOR THE DURATION OF CONSTRUCTION. THE USE OF EXISTING COUNTY EASEMENTS AND RIGHT OF WAY SHOULD BE REQUESTED IN WRITING TO THE COUNTY FOR APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE HOA INFORMED IN REGARDS TO STAGING AREAS, PROJECT DURATION AND REMOVAL OR REPLACEMENT OF FENCE.
- 31. VIBRATORY COMPACTION OF ANY KIND SHALL NOT BE ALLOWED DURING CONSTRUCTION ALLOWABLE COMPACTION METHODS INCLUDE THE USE OF NON-VIBRATORY EQUIPMENT ONLY (E.G., STATIC SMOOTH WHEELED ROLLERS, STATIC PAD ROLLERS, OR OTHER NON-VIBRATORY METHODS). THE CONTRACTOR'S COMPACTION METHODS SHALL BE SUBMITTED TO THE COUNTY FOR WRITTEN APPROVAL PRIOR TO USE.

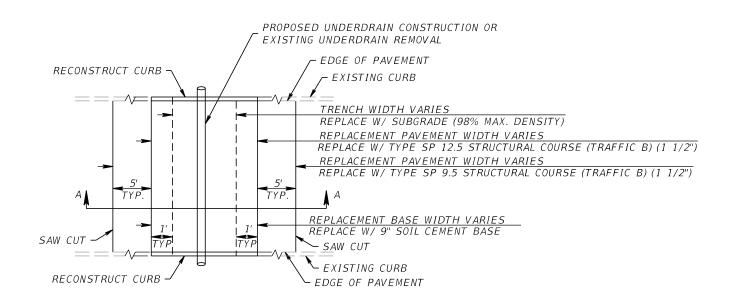
REVISIONS DATE BY

PARK MANOR ESTATES SECTIONS 9 - 10 UNDERDRAIN IMPROVEMENTS

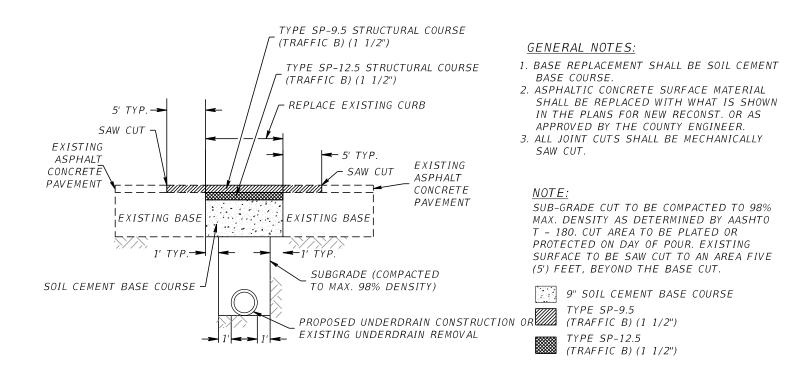




SHEET NO.



PLAN VIEW



STANDARD ROADWAY OPEN CUT CROSS SECTION DETAIL

R E V I S I O N S

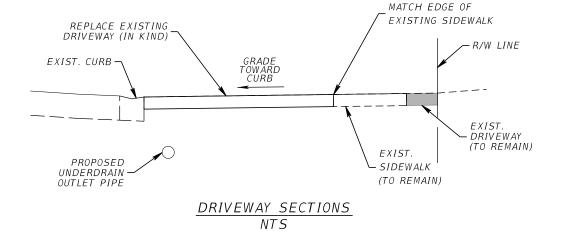
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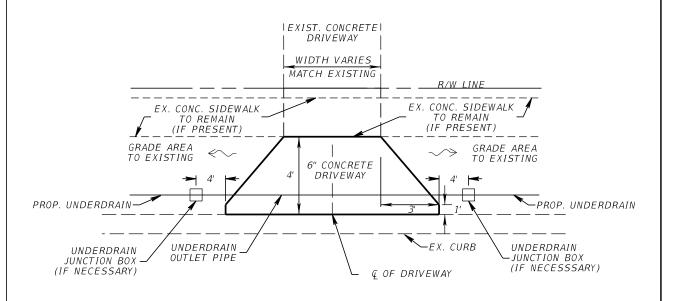
PARK MANOR ESTATES

SECTIONS 9 - 10

UNDERDRAIN IMPROVEMENTS







DRIVEWAY NOTES:

1. THE CONTRACTOR SHALL SAW CUT AND REMOVE THE EXISTING DRIVEWAY FROM THE FRONT OF THE EXISTING SIDEWALK TO THE EXISTING CURB.

CONCRETE DRIVEWAY TYPICAL

NTS

- 2. SURFACE SPECIFICATIONS: CONCRETE DRIVEWAY SHALL BE A MINIMUM OF 6" THICK, 3000 PSI CONCRETE INCORPORATING A FLARE AS SHOWN IN THE PLAN VIEW.
- 3. RIGHT OF WAY RESTORATION REQUIREMENT: AS GOOD OR BETTER THAN CONDITION PRIOR TO CONSTRUCTION (INCLUDES ADJACENT AREAS).
- 4. COST OF DRIVEWAY RESTORATION IS INCLUDED IN PAY ITEM 522-2 SIDEWALK CONCRETE, 6" THICK (FOR DRIVEWAY REPLACEMENT).
- 5. ANY SIDEWALK TO BE REPLACED WITHIN DRIVEWAY LIMITS SHALL BE 6" THICK CONCRETE.
- 6. UNDERDRAIN JUNCTION BOXES SHALL BE NECESSARY ONLY WHEN JOINING DISSIMILAR PIPES THAT ARE NOT COMPATIBLE WITH JOINING AND SEALING VIA A TYPICAL BELL AND SPIGOT. IF THIS SCENARIO IS ENCOUNTERED, JUNCTION BOX SHALL BE PROVIDED PER THE PIPE MANUFACTURER'S SPECIFICATIONS AND WILL REQUIRE SHOP DRAWING APPROVAL PRIOR TO USE.

n M. Sommerfeldt, PE 3000 Dovera Drive, Suite 200 Oviedo, Florida 32765

SHEET NO.

MISCELLANEOUS DETAILS