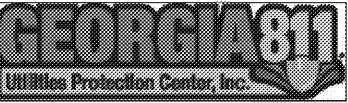


BASED ON THE INFORMATION SHOWN ON THE FLOOD HAZARD BOUNDARY MAPS FURNISHED BY THE DEPT. OF HUD THROUGH THE FEMA IT IS MY OPINION THAT THE PROPERTY SHOWN HEREON IS OUTSIDE OF ANY FLOOD HAZARD AREA.
 COMMUNITY PANEL 13151C 0276D DATED: OCTOBER 6, 2016

ENGINEER'S CERTIFICATION
 I CERTIFY THAT THE PROPOSED WATER AND SANITARY SEWER SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH LGWSD SPECIFICATION DOCUMENT TITLED "STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS AND SANITARY SEWER SYSTEMS," LATEST EDITION WITH AMENDMENTS.
 GEORGE P. HARPER, PE DATE

UTILITY LEGEND:

- (A) 4" SANITARY SEWER LATERAL AT MINIMUM 2.0% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.
- (B) OMITTED.
- (C) OMITTED.
- (D) UNDERGROUND ELECTRIC SERVICE FROM POLE TO BUILDING. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUCTORS, TRACE TAPE, BACKFILL, ETC., WHICH MAY BE REQUIRED BY ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH POWER COMPANIES. THE CONTRACTOR IN CONJUNCTION WITH THE UTILITY COMPANIES SHALL DETERMINE THE AMOUNT OF UTILITY LINE HE IS TO PROVIDE OUTSIDE THE UTILITY COMPANY'S ALLOWANCE.
- (E) PROPOSED LOCATION OF TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY.
- (F) UNDERGROUND TELEPHONE FROM POLE TO BUILDING TO BE EXTENDED BY TELEPHONE COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCHING, BEDDING, CONDUIT, PULL WIRES, TRACE TAPE, BACKFILL, ETC., WHICH MAY BE REQUIRED BY TELEPHONE COMPANY. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR SAID WORK. PROVIDE CONDUITS AS SHOWN.
- (G) CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES FOR THE INSTALLATION OF OVERHEAD/UNDERGROUND ELECTRIC AND TELEPHONE LINES TYPICAL. CONTRACTOR SHALL COORDINATE THE TYPING OF INDIVIDUAL METER WITH THE ELECTRIC COMPANY. SEE NOTE D, E, & F FOR ADDITIONAL NOTES PERTAINING TO ELECTRIC AND TELEPHONE LINES.
- (H) 2" DOMESTIC WATERLINE ENTRY WITH INTERNAL SUB METERS PER LOCAL WATER COMPANY REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE, IN SIDE BLDG. SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED TO COORDINATE WITH WATER COMPANY.
- (I) 4" SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A GATE VALVE, GATE VALVES, ETC., MEETING WATER COMPANY SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS.
- (J) PROPOSED FIRE HYDRANT, AND ASSEMBLY, LOCAL AS INDICATED. CONTRACTOR TO PROVIDE PIPE BOLLARD PROTECTION WHEN FIRE HYDRANT IS LOCATED ON PAVED AREA OR WHERE SHOWN.
- (K) PROPOSED 4 INCH REMOTE FIRE DEPARTMENT CONNECTION. SEE DETAIL SHEET
- (L) PROPOSED POST INDICATOR VALVE WITH COVER SWITCH DEVICE CONNECTED TO ALARM PANEL. SEE DETAIL SHEET.



CAUTION
 THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SANITARY SEWER NOTES

1. MANHOLE RIMS, TOE POCKET FRAMES AND COVERS SHALL BE CAST IRON CONFORMING TO ASTM A48 FOR CLASS 20 GRAY IRON CASTINGS. MANHOLE FRAMES AND COVERS SHALL BE NOMINALLY TWENTY-FOUR (24) INCHES IN DIAMETER AND WEIGH NO LESS THAN TWENTY POUNDS.
2. HARCO COUPLINGS ARE REQUIRED AT ALL JOINTS BETWEEN PVC AND DIP.
3. ALL SERVICE LATERALS SHALL BE 6".
4. MANHOLES OUTSIDE THE STREET MUST BE 12" ABOVE GRADE WITH CAST-IRON BOLT DOWN, RING AND COVERS AND SHALL CONFORM TO ASTM A48 FOR CLASS 20 GRAY IRON CASTINGS. MANHOLE COVERS SHALL BE A NOMINAL TWENTY-FOUR (24) INCHES IN DIA. & WEIGH NOT LESS THAN 340 POUNDS.
5. SEWER LINES CONSTRUCTED OUTSIDE OF RIGHT OF WAY SHALL BE CENTERED ON A PERMANENT 20" SANITARY SEWER EASEMENT.
6. REFER TO LGWSD STANDARD DETAILS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR FOR THE WATER/SEWER LINE MUST HAVE A STATE APPROVED LICENSE AND BE ON THE APPROVED LIST FOR LGWSD.
8. A PRE-CONSTRUCTION CONFERENCE WITH LGWSD IS REQUIRED PRIOR TO ANY WATER OR SEWER INSTALLATION.
9. APPROVED CONSTRUCTION PLANS MUST BE ON SITE DURING CONSTRUCTION. CONTRACTOR SHALL RECORD "AS BUILT" INFORMATION ON THE CONSTRUCTION PLANS AND MAKE THE PLANS AVAILABLE TO THE INSPECTOR/ENGINEER UPON REQUEST.
10. ALL MANHOLES SHALL BE VACUUM TESTED. ALL PIPES ENTERING THE MANHOLE WOULD BE PLUGGED, TAKING CARE TO SECURELY PLACE THE PLUG FROM BEING DRAWN INTO THE MANHOLE. THE TEST HEAD SHALL BE PLACED AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A VACUUM PUMP OF 10-INCHES OF MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL BE MEASURED FROM THE VACUUM TO DROP TO 9-INCHES. TESTING TIMES SHALL BE TAKEN FROM ASTM C 1244-99, AS AMENDED TO DATE.
11. IN LIEU OF AN INFILTRATION TEST, THE CONTRACTOR MAY PERFORM LOW-PRESSURE AIR TEST. AFTER STABILIZING AT 4 PSI, THE TEST PRESSURE IS 3.5 PSI AND MAY NOT DROP OVER 1 PSI DURING THE TEST. MINIMUM TEST TIMES FOR VARIOUS PIPE SIZES SHALL BE IN ACCORDANCE WITH UNI BELL UNI-B-6-90, AS AMENDED TO DATE.
12. A CITY OF LOCUST GROVE INSPECTOR SHALL BE PRESENT DURING CONNECTION OF THE DEVELOPER'S SYSTEM TO THE CITY OF LOCUST GROVE SYSTEMS. PRIOR TO INSTALLATION, A CITY OF LOCUST GROVE INSPECTOR SHALL APPROVE ALL MATERIALS SUPPLIED BY THE DEVELOPER TO BE USED IN MAKING THE CONNECTION.
13. PVC PIPE USED AS SEWER SHALL BE SDR 26 PUSH-ON JOINT TYPE WITH O-RINGS IN ACCORDANCE WITH ASTM 3034.

WATER SYSTEM NOTES

1. ALL WATER MAINS INSTALLED WITHIN THE CITY OF LOCUST GROVE WATER AND SEWERAGE DEPARTMENT (LGWSD) JURISDICTION SHALL BE DUCTILE IRON PIPING PER THE DEPARTMENT'S SPECIFICATIONS.
2. LGWSD SHALL PERFORM ALL SERVICE TAPS, INSTALL ALL SERVICE TUBING, SET ALL METER BOXES.
3. ALL SERVICE TUBING SHALL BE 01" TYPE K SOFT ANNEALED COPPER TUBING.
4. 02" PVC CONDUIT REQUIRED FOR ALL LONG SIDE SERVICES.
5. STANDARD HOUSE SERVICE IS 01".
6. CONTRACTOR FOR THE WATER/SEWER LINE MUST HAVE A STATE APPROVED LICENSE AND BE ON THE APPROVED LIST FOR LGWSD.
7. A PRE-CONSTRUCTION CONFERENCE WITH LGWSD IS REQUIRED PRIOR TO ANY WATER OR SEWER INSTALLATION.
8. AS-BUILT DRAWINGS OF THE INSTALLED WATER & SEWER DISTRIBUTION SYSTEM SHALL BE PREPARED AND SEALED IN ACCORDANCE WITH DIVISION II, SECTION 1.02.
9. PROPOSED 4" FIRE LINE SIZE IS ASSUMED. EXACT FIRE LINE SERVICE SIZE TO BE DETERMINED BY SPRINKLER CONTRACTOR.
10. THRUST RESTRAINT SHALL BE INSTALLED AT ALL FITTINGS, HYDRANTS, AND VALVES.
11. WATER MAINS AND SERVICE LINES TO FIRE HYDRANTS SHALL HAVE A MINIMUM SUITABLE SOIL COVER OF 4-FEET.
12. PRESSURE AND LEAK TEST WILL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600. TEST PRESSURE WILL BE 1.5 TIMES THE WORKING PRESSURE BUT NOT LESS THAN 150 PSI, WHICHEVER IS GREATER.
13. WATER DISTRIBUTION PIPING AFFECTED DURING CONSTRUCTION SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651.

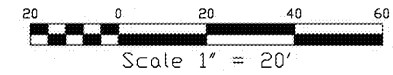
LEGEND

P.O.B.	POINT OF BEGINNING	EXISTING	EX
P.O.R.	POINT OF REFERENCE	PROPOSED	PK
O.T.P.	OPEN TOP PIPE	TREE PROTECTION FENCING	TPF
I.P.F.	IRON PIN FOUND	PR FIRE HYDRANT	PR
I.P.S.	IRON PIN SET	EX FIRE HYDRANT	EX
PL	PROPERTY LINE	CONCRETE MONUMENT FOUND	CM
C.M.F.	CONCRETE MONUMENT FOUND	EX WATER VALVE	EX
L.L.L.	LAND LOT LINE	PR WATER VALVE	PR
B.O.C.	BACK OF CURB	WATER METER	WM
E.O.P.	EDGE OF PAVEMENT	ELECTRIC BOX	EB
T.W.	TOP OF WALL	FLARED END SECTION	FES
B.W.	BOTTOM OF WALL	SANITARY SEWER LINE	SS
D.E.	DRAINAGE EASEMENT	WATER LINE	WL
(S)	SANITARY SEWER MANHOLE - SA	SIGN	SI
(JB)	JUNCTION BOX (JB)	FENCE	FC
(DWB)	DOUBLE-WING CATCH-BASIN (DWB)	LT-DUTY ASPHALT PAVING	LAP
(SWB)	SINGLE-WING CATCH-BASIN (SWB)	HEAVY-DUTY ASPHALT PAVING	HAP
(DI)	DROP INLET (DI)		
(H)	HEADWALL		
(DF)	DRAINAGE FLOW		
(LP)	LIGHT POLE (LP)		
(PP)	POWER POLE (PP)		

OWNER/DEVELOPER:
 24 HOUR CONTACT
 PRIMARY PERMITTEE
 STLC, LLC C/O VERDURA RESOURCES
 1835 SAVOY DRIVE, SUITE 107
 ATLANTA, GA 30341
 JACOB LANG
 PH: 912 655-3438
 E: jacob@LangCRE.com

GENERAL UTILITY NOTES

1. PROPOSED TRANSFORMER PAD LOCATION AND SIZE TO BE VERIFIED WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT, AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE POWER COMPANY.
2. CONTRACTOR IS RESPONSIBLE FOR UNDERGROUND ELECTRIC SERVICE FROM POLE TO BUILDING AND ALL TRENCHING, BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUCTORS, TRACE TAPE, BACKFILL, ETC. WHICH MAY BE REQUIRED BY ELECTRIC COMPANY.
3. UNDERGROUND TELEPHONE FROM POLE TO BUILDING TO BE EXTENDED BY TELEPHONE CO. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCHING, BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUCTORS, TRACE TAPE, BACKFILL, ETC. WHICH MAY BE REQUIRED BY TELEPHONE COMPANY.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY DOMESTIC WATERLINE APPURTENANCES INSIDE OF THE BUILDING SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC. WHICH MAY BE REQUIRED TO COORDINATE WITH THE WATER AUTHORITY.
5. SPRINKLER BUILDING ENTRY TO BE DETERMINED BY ARCHITECT. CONTRACTOR IS TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A GATE VALVE, GATE VALVES, ETC. MEETING HENRY COUNTY FIRE DEPT. SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS.



Order Plans

SHOPS B
 13,286 SF
 FFE=859.25

CONTRACTOR TO CONNECT TO EXISTING ELECTRIC AND TELEPHONE STUBS
 CONTRACTOR TO CONNECT TO EXISTING 8" WATER AT EXISTING VALVE

Paramount
ENGINEERING, LLC



REV	DATE	DESCRIPTION
1	10-19-20	ADDRESSED CITY COMMENTS

PROJECT: MARKET PLACE @ LOCUST GROVE SHOPS
 SHEET: UTILITY PLAN
 2ND DISTRICT
 HENRY COUNTY
 DRAWN BY: GPH
 DATE: 09/16/2020
 SCALE: 1" = 20'
 DRAWING NO: 200907 - LOCUST GROVE SHOPS
 GSWCC NO. 08374