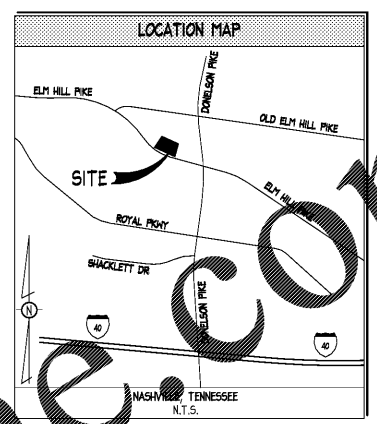


UTILITY LEGEND

UTILITY	LINE TYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE	— DW —	2" PVC
FIRE WATER LINE	— FW —	N/A
BUILDING FIRE SPRINKLER LINE	— FWS —	N/A
IRRIGATION WATER LINE	— IRR —	1" PVC
DOMESTIC WATER METER (NM)	— NM —	N/A, EXISTING
IRRIGATION METER (IRM)	— IRM —	N/A, EXISTING
BACKFLOW PREVENTER (BFP)	— BFP —	N/A, EXISTING
FIRE VAULT (DVC)	— DVC —	N/A
DC BACKFLOW PREVENTER	— DCBFP —	N/A
WATER TAP OR TEE	— WT —	N/A, EXISTING
BUTTER VALVE	— BV —	DETAIL 3, SHEET C04.3
THRUST BLOCK (TB)	— TB —	N/A
FIRE HYDRANT (FH)	— FH —	N/A
FIRE DEPARTMENT CONNECTION (FDC)	— FDC —	N/A
SANITARY SEWER (SS)	— SS —	4" AND 6" SDR-35 PVC
SANITARY MANHOLE (SMH)	— SMH —	DETAIL 1, SHEET C04.1
GENERAL CLEAN OUT (CO)	— CO —	DETAIL 4, SHEET C04.4
SAMPLING MANHOLE	— SM —	N/A
SANITARY STRUCTURE NUMBER	— SS# —	N/A
UNDERGROUND ELECTRIC LINE-PRIMARY	— UGE-P —	N/A
UNDERGROUND ELECTRIC LINE-SECONDARY	— UGE-S —	N/A
POST INDICATOR VALVE	— PIV —	N/A
SITE LIGHTING	— SL —	SEE PLANS (BY OTHERS)
TRANSFORMER PAD	— TP —	N/A
METER PEDestal	— MP —	N/A
UNDERGROUND TELEPHONE LINE	— UGT —	N/A
GENERAL UTILITY CONDUIT	— GU —	(2) 4" CONDUIT
GAS LINE	— G —	SEE PLANS (BY OTHERS)
GAS METERS	— GM —	SEE PLANS (BY OTHERS)

ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS.



UTILITY INFORMATION

LINE EXTENSION TO PROPERTY LINE	METER/VALVE/OPER		UTILITY	ADDITIONAL NOTES
	GC	BY OTHERS		
PIPE FROM PROPERTY LINE TO BUILDING	●	●	EXISTING	
TAPPING THE MAIN	●	●	EXISTING	
WATER VAULT	●	●	EXISTING	
WATER (METER) PIT	●	●	EXISTING	
DOMESTIC METER	●	●	EXISTING	
FIRE METER	●	●	EXISTING	
IRRIGATION METER	●	●	EXISTING	
DOMESTIC BFP	●	●	EXISTING	
FIRE BFP	●	●	EXISTING	
IRRIGATION BFP	●	●	EXISTING	
OBTAINING EASEMENTS	●	●	EXISTING	
OBTAINING ROW PERMIT	●	●	EXISTING	

SANITARY SEWER

LINE EXTENSION TO PROPERTY LINE	METER/VALVE/OPER		UTILITY	ADDITIONAL NOTES
	GC	BY OTHERS		
TAPPING OF THE MAIN	●	●	EXISTING	
LINE EXTENSION SERVICE LATERAL (INSIDE PROPERTY)	●	●	EXISTING	
OBTAINING EASEMENTS	●	●	EXISTING	
OBTAINING ROW PERMIT	●	●	EXISTING	

ELECTRIC

PRIMARY CONDUIT	METER/VALVE/OPER		UTILITY	ADDITIONAL NOTES
	GC	BY OTHERS		
PRIMARY CABLE	●	●		
PRIMARY FINAL CONNECTION	●	●		
TRANSFORMER	●	●		
TRANSFORMER PAD	●	●		
POLE	●	●	EXISTING	
SECONDARY CABLE	●	●		
SECONDARY CONDUIT	●	●		
SECONDARY FINAL INSPECTION	●	●		
METER	●	●		
CT CABINET	●	●		
CT METER CONDUIT	●	●		
SOCKET	●	●		
OBTAINING EASEMENTS	●	●		
ROW WORK PERMITS	●	●		

TELEPHONE

CONDUIT	METER/VALVE/OPER		UTILITY	ADDITIONAL NOTES
	GC	BY OTHERS		
TRENCH & BACKFILL	●	●		
CABLE & WIRE	●	●		
OBTAINING EASEMENTS	●	●	N/A - NONE NEEDED	
OBTAINING ROW WORK PERMITS	●	●	ATTN GET PERMIT FOR ROW WORKS, ALL ELSE BY GC.	

GAS

CONDUIT	METER/VALVE/OPER		UTILITY	ADDITIONAL NOTES
	GC	BY OTHERS		
TAP	●	●		
PIPING	●	●		
TRENCH AND BACKFILL	●	●		
METER	●	●		
REGULATOR	●	●		
OBTAINING EASEMENTS	●	●		
OBTAINING ROW WORK PERMITS	●	●		

GENERAL UTILITY NOTES

- SEE SHEET C01 FOR GENERAL NOTES.
- SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES INTO BUILDING.
- SANITARY LATERALS SHALL HAVE A MINIMUM FALL OF 1/8".
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
- THE FINAL LOCATION OF FIRE HYDRANTS, VALVES, WATER LINES, BACKFLOW PREVENTERS, ETC. SHALL BE DETERMINED DURING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CHANGES TO LOCATION OR CONFIGURATION. NFPA CODES SHALL BE ADHERED TO.
- THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
- UTILITY CONDUIT MATERIAL FOR ELECTRIC, TELEPHONE, AND CABLE SHALL BE INSTALLED PER UTILITY PROVIDER SPECIFICATIONS.

CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTERS AROUND BUILDING AND PATIO. SEE ARCHITECTURAL/MEP PLANS FOR CONTINUATION.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

24-HOUR CONTACT:
CLAY WORTHY
602-931-6540



STORM STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
A0	FORTERRA 24" x 36" SURFACE INLET DETAIL 4, SHEET C04.1	529.99	521.08 (PA1)	520.98 (PA0)
A1	BIORETENTION OUTLET STRUCTURE DETAIL 3, SHEET C04.1	525.40		521.22 (PA1)
A2	JUNCTION BOX DETAIL 2, SHEET C04.3	530.05	525.50 (PAS)	525.50 (PA2)
A3	LDM PROFILE NO.12 CATCH BASIN DETAIL 1, SHEET C04.4	529.80	525.70 (PAA)	525.71 (PAB)
A4	LDM PROFILE NO.12 CATCH BASIN DETAIL 1, SHEET C04.4	529.75	526.15 (PAB)	526.15 (PAA)
A4.1	LDM PROFILE NO.12 CATCH BASIN DETAIL 1, SHEET C04.4	529.80		526.39 (PAA.1)
A5	NO.42 CATCH BASIN DETAIL 2, SHEET C04.4	529.75		526.29 (PAS)
B1	NO.42 CATCH BASIN DETAIL 2, SHEET C04.4	529.80	525.07 (PE2)	525.07 (PB1)
B2	JUNCTION BOX DETAIL 2, SHEET C04.3	529.20	525.32 (PE2)	525.32 (PB2)
B3	LDM PROFILE NO.12 CATCH BASIN DETAIL 1, SHEET C04.4	529.00		525.57 (PB3)

STORM PIPE TABLE

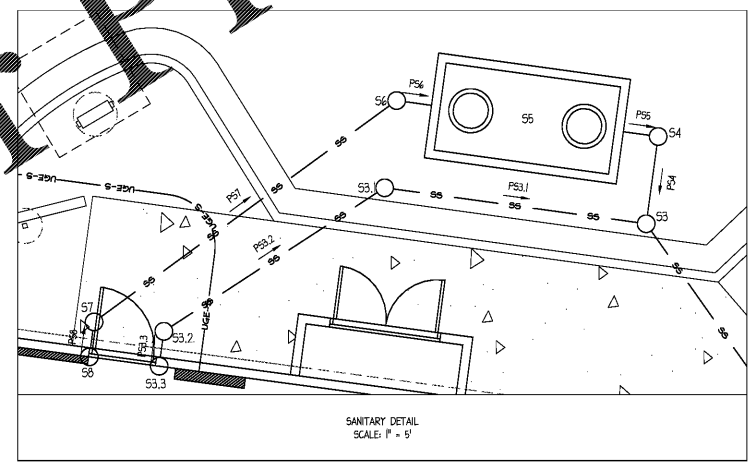
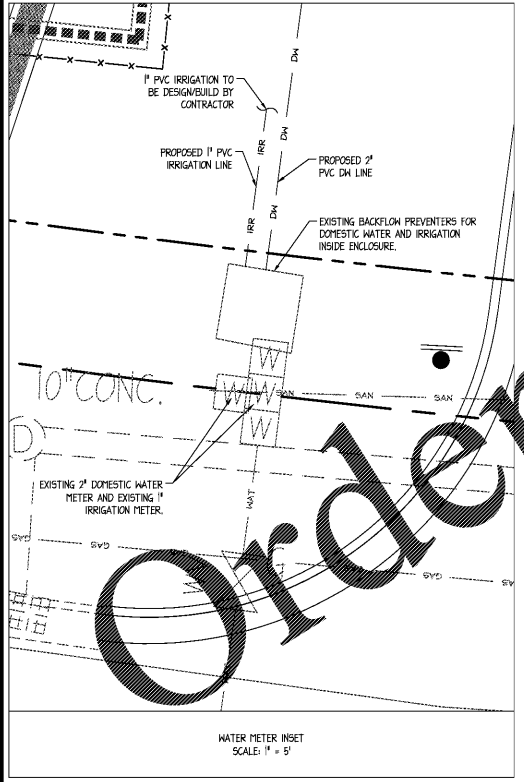
NAME	SIZE	LENGTH	SLOPE	MATERIAL
EXO	18"	30'	0.36%	RCP
PA0	18"	15'	0.30%	RCP
PA1	18"	28'	0.50%	RCP
PA2	15"	35'	0.50%	RCP
PAS	15"	42'	0.50%	RCP
PAA	15"	90'	0.50%	RCP
PAA.1	15"	44'	0.35%	RCP
PAB	15"	54'	0.35%	RCP
PE1	15"	35'	0.50%	RCP
PE2	15"	50'	0.50%	RCP
PE3	15"	100'	0.35%	RCP

SANITARY STRUCTURE TABLE

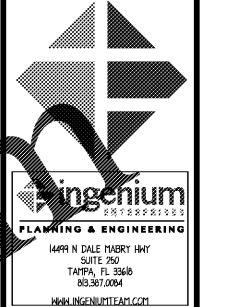
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
S0	INSIDE DROP MANHOLE DETAIL 1, SHEET C04.2	530.81	521.62 (PS1)	521.04 (PS0)
S1	6" CLEANOUT DETAIL 4, SHEET C04.2	530.18	521.93 (PS2)	521.93 (PS1)
S2	6" CLEANOUT DETAIL 4, SHEET C04.2	530.12	523.20 (PS3)	523.20 (PS2)
S3	6" CLEANOUT DETAIL 4, SHEET C04.2	530.27	524.47 (PS4) 524.57 (PS3.1)	524.47 (PS3)
S3.1	6" CLEANOUT DETAIL 4, SHEET C04.2	530.33	524.72 (PS3.2)	524.72 (PS3.1)
S3.2	6" CLEANOUT DETAIL 4, SHEET C04.2	530.43	524.87 (PS3.3)	524.87 (PS3.2)
S3.3	BUILDING STUB	531.00		524.87 (PS3.3)
S4	6" CLEANOUT DETAIL 4, SHEET C04.2	530.25	524.62 (PS5)	524.62 (PS4)
S5	1,500 GALLON GREASE TRAP DETAIL 8, SHEET C04.2	530.30		
S6	6" CLEANOUT DETAIL 4, SHEET C04.2	530.16	524.77 (PS7)	524.77 (PS6)
S7	6" CLEANOUT DETAIL 4, SHEET C04.2	530.43	524.98 (PS8)	524.98 (PS7)
S8	BUILDING STUB	531.00		525.00 (PS8)

SANITARY PIPE TABLE

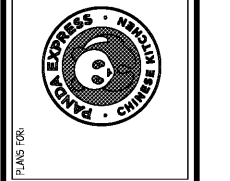
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PS0	6"	28'	0.50%	SDR-35 PVC
PS1	6"	31'	1.00%	SDR-35 PVC
PS2	6"	42'	3.00%	SDR-35 PVC
PS3	6"	47'	3.00%	SDR-35 PVC
PS3.1	6"	15'	1.00%	SDR-35 PVC
PS3.2	6"	15'	1.00%	SDR-35 PVC
PS3.3	6"	2'	1.00%	SDR-35 PVC
PS4	6"	5'	3.00%	SDR-35 PVC
PS5	6"	2'	1.00%	SDR-35 PVC
PS6	6"	2'	1.00%	SDR-35 PVC
PS7	6"	2'	1.00%	SDR-35 PVC
PS8	6"	2'	1.00%	SDR-35 PVC



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ISSUE DATE: 11/30/2016
PROJ TIER: LC

UTILITY PLAN
C04.0
SHEET NUMBER

SCALE FOR 11.11.16