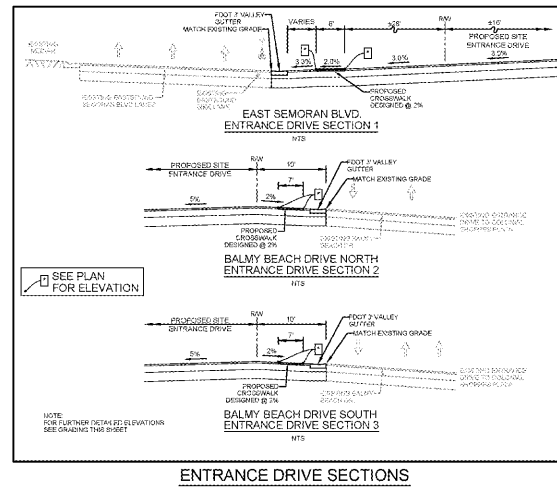


STRUCTURE NUMBER	STRUCTURE TYPE	RIM ELEV.	DOWNSTREAM STRUCTURE	INVERTS IN	INVERTS OUT	DOWNSTREAM PIPE LENGTH	PIPE SIZE/MATERIAL	SLOPE
STS-1	TYPE 1 MH	104.56	STS-2	97.65 NE 97.55 SE	97.65 SW	130'	24" RCP	0.20%
STS-2	TYPE D	103.00	STS-3	97.39 NE 96.53 SW	97.39 SW	62'	24" RCP	0.20%
STS-3	TYPE C	101.59	STS-4	96.41 NE 96.41 SW	96.41 SW	103'	30" RCP	0.20%
STS-4	TYPE C	101.42	STS-5	96.33 NE 96.20 SW	96.20 SW	148'	30" RCP	0.20%
STS-5	TYPE C	101.42	STS-6	95.90 NE 95.90 S	95.90 S	86'	30" RCP	0.82%
STS-6	TYPE E	100.66	STS-7	95.20 NE 95.20 SE	95.20 SE	73'	30" RCP	0.20%
STS-7	TYPE 1 MH	101.15	STS-8	95.05 NW 95.58 NE	95.05 SW	48'	30" RCP	0.20%
STS-8	SIPHONIC MANHOLE	101.35	STS-9	95.59 NW 95.59 SW	95.59 SW	9'	24" RCP	0.30%
STS-9	TYPE 1 MH	101.69	STS-10	95.87 NE 92.28 NW	92.28 SE	150'	42" RCP	0.20%
STS-10	12" CLEANOUT	101.82	STS-11	96.00 SE 96.29 NW	96.00 SW	13'	12" HDPE	1.00%
STS-10.1	12" TRUCK WELL DRAIN	101.82	STS-11	96.30 SE 96.30 S	96.30 S	5'	12" HDPE	1.08%
STS-11	TYPE E	101.10	STS-12	94.00 NE 91.96 NW	95.30 SW	67'	60" RCP	0.19%
STS-12	TYPE C	101.94	STS-13	94.50 NE 94.40 SW	94.40 SW	78'	48" RCP	0.53%
STS-13	TYPE C	102.16	STS-14	97.18 E 95.00 NE	94.80 SW	92'	48" RCP	0.33%
STS-14	TYPE S	106.86	STS-15	100.51 SE 103.91 N	98.00 W	152'	36" RCP	0.55%
STS-15	TYPE S	107.43	STS-16	104.00 S	104.00 S	30'	18" RCP	0.30%
STS-16	TYPE C	110.00	STS-17	100.54 NW 100.54 SW	96.66 SW	66'	36" RCP	0.20%
STS-17	TYPE C	101.85	STS-18	95.50 NE 96.72 NW	95.50 SW	133'	42" RCP	0.38%
STS-18	TYPE C	101.59	STS-19	97.50 NE 97.50 SW	97.20 SE	96'	24" RCP	0.50%
STS-18.1	12" ROOF DRAIN	102.67	STS-18.2	98.51 SE	98.51 SE	15'	12" HDPE	1.00%
STS-18.2	12" ROOF DRAIN	102.67	STS-18.3	98.38 NW 96.36 SE	-0.30 NE	86'	12" HDPE	114.10%
STS-18.3	12" ROOF DRAIN	102.67	STS-18.4	98.51 NW	98.51 NW	15'	12" HDPE	1.00%
STS-19	TYPE C	105.00	STS-20	97.88 SW	97.88 SW	80'	18" RCP	0.30%
STS-20	TYPE C	103.00	STS-21	97.07 NE 95.67 SW	95.67 SW	58'	36" RCP	0.30%
STS-21	TYPE S	107.50	STS-22	98.89 E 97.69 SW	97.69 SW	129'	36" RCP	0.50%
STS-22	TYPE 1 MH	106.50	STS-23	98.99 NE 98.99 W	98.99 W	63'	36" RCP	0.20%
STS-23	EXISTING TYPE S INLET	107.97	STS-24	96.35 NW	96.35 NW	19'	36" RCP	0.21%
STS-24	TYPE 1 MH	92.31	STS-25	85.17 NE 85.17 W	48'	60" RCP	0.35%	
STS-25	60" MES	0.00						
STS-26	TYPE 1 MH	106.00	STS-27	99.31 SE 99.31 SW	99.31 SW	179'	36" RCP	0.18%
STS-27	TYPE S	103.70	STS-28	97.73 NE 97.73 SW	97.73 SW	40'	18" RCP	0.20%
STS-28	TYPE E	102.00	STS-29	97.94 E 99.79 S	97.94 SW	105'	18" RCP	0.20%
STS-29	TYPE 6	107.50	STS-30	99.55 N	99.55 N	13'	10" PVC	0.98%
STS-30	10" TRENCH DRAIN	101.73	STS-31	100.10 W	100.10 W	35'	8" PVC	0.60%
STS-31	8" ROOF DRAIN	103.69	STS-32	94.50 W	94.50 W	9'	18" RCP	0.58%
STS-32	TYPE 1 MH	105.28	STS-33	97.92 NE 97.92 NW	97.92 NW	135'	18" RCP	0.20%
STS-33	TYPE C	103.50	STS-34	96.00 NE 96.00 SW	96.00 SW	42'	18" RCP	0.19%
STS-34	TYPE C	103.55	STS-35	96.23 SW	96.23 SW	117'	18" RCP	0.20%
STS-35	TYPE C	98.00	STS-36	94.50 W	94.50 W	9'	18" RCP	0.58%
STS-36	TYPE S	99.46	STS-37	94.49 E 94.49 W	94.49 W	24'	18" RCP	0.25%
STS-37	TYPE S	99.46	STS-38	94.38 SE 89.12 W	95'	18" RCP	2.05%	
STS-38	TYPE 1 MH	91.00	STS-39	88.00 E 81.00 SW	81.00 SW	441'	18" RCP	0.69%
STS-39	18" MES	80.21						
STS-40	TYPE C	101.00	STS-41	84.77 NW	84.77 NW	89'	18" RCP	2.00%
STS-41	TYPE 1 MH	87.00	STS-42	83.00 SE 78.50 NW	78.50 NW	200'	18" RCP	1.00%
STS-42	TYPE E	81.00						



### SYMBOLS FOR PROPOSED IMPROVEMENTS

- GRATED DROP INLET
- DRAINAGE DIVIDE
- PROPOSED SPOT ELEVATION SHOWN TO FACE OF CURB
- EXISTING SPOT ELEVATION
- PROPOSED STORM SEWER PIPING
- EXISTING STORM SEWER PIPING
- DRAINAGE STRUCTURE INDICATOR
- SLOPE ARROW
- MATCH EXISTING GRADE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- AREA OF FILL FOR EXISTING POND TO ELEV. = 90'
- PERMANENT RIPRAP EROSION CONTROL

**GENERAL NOTES:**  
 1. ANY BROKEN, MISSING SIDEWALK OR RAMPS THAT DO NOT MEET ADA REQUIREMENTS WILL BE REQUIRED TO BE REPLACED AS PART OF THIS DEVELOPMENT.

**FOUNDATION SUBSURFACE PREPARATION**  
 WAL-MART #6994 APOPKA (BALMY BEACH), FLORIDA  
 MARCH 31, 2016

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 5 FEET BEYOND THE BUILDING AND APPURTENANCES.

APPURTENANCES ARE THOSE ITEMS ATTACHED TO THE BUILDING PROPER (REFER TO DRAWING SHEET SP1), TYPICALLY INCLUDING, BUT NOT LIMITED TO, THE BUILDING SIDEWALKS, GARDENS, CENTERS, PORCHES, RAMPS, STAIRS, TRUCK WELLS, STOCKS, CONCRETE APRONS AT THE AUTOMOTIVE CENTER, COMPACTOR PAD, ETC. INSTALL A MINIMUM 10-MIL VAPOR BARRIER, MEETING ASTM E 1745, "CLASS A" REQUIREMENTS, PLACED ABOVE THE BASE AND DIRECTLY BELOW THE SLAB. NOTE: VAPOR BARRIER IS REQUIRED BY FLORIDA BUILDING CODE. DO NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING AND THE APPURTENANCES. EXTREME CARE MUST BE TAKEN TO RE-ROUTE RUNOFF WATER AWAY FROM THE BUILDING AND PAVEMENT AREA INTO THE STORMWATER POND AS DESIGN PRESENTATION, AND "GREEN" AREAS MUST BE CONSTRUCTED AWAY FROM STRUCTURAL AREAS.

ESTABLISH THE INITIAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLAB, AND BASE. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. THE 4" THICK BASE MATERIAL SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. LIMEROCK MATERIAL SHALL HAVE AT LEAST 97% (BY WEIGHT) PASSING A 3.5 INCH SIEVE AND SHALL BE GRADUALLY UNIFORM DOWN TO DUST. THE FINE MATERIAL SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF AT LEAST 100 AND NO MORE THAN 20% FINES WHEN WASHED THROUGH A NO. 200 SIEVE. THE FLOOR SLAB BEARING SOILS SHALL BE COVERED BY A LAPPED VAPOR RETARDER OF AT LEAST 10-MIL THICKNESS, CONFORMING TO ASTM E 1745, CLASS A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL BUT AND FILL DEPTHS AND SUITABILITY OF EXISTING ON-SITE SOILS. ANY PROPOSED EQUIVALENT BASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE GEC AND AOR.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE BUILDING AREA. REMOVE SURFACE VEGETATIONS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSATISFACTORY MATERIAL (AS DEFINED IN SPECIFICATION SECTION 2900) FROM THE BUILDING AREA. PROPOSED SUBSURFACE PREPARATION SHALL REMOVE AND REPLACE UNSATISFACTORY AREAS WITH SATISFACTORY SERIAL SUBGRADE MATERIAL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS, NON-PLASTIC, GRANULAR, AND WITH LESS THAN 10 PERCENT PASSING THE NO. 200 MESH SIEVE, AND SHALL MEET THE FOLLOWING REQUIREMENTS:

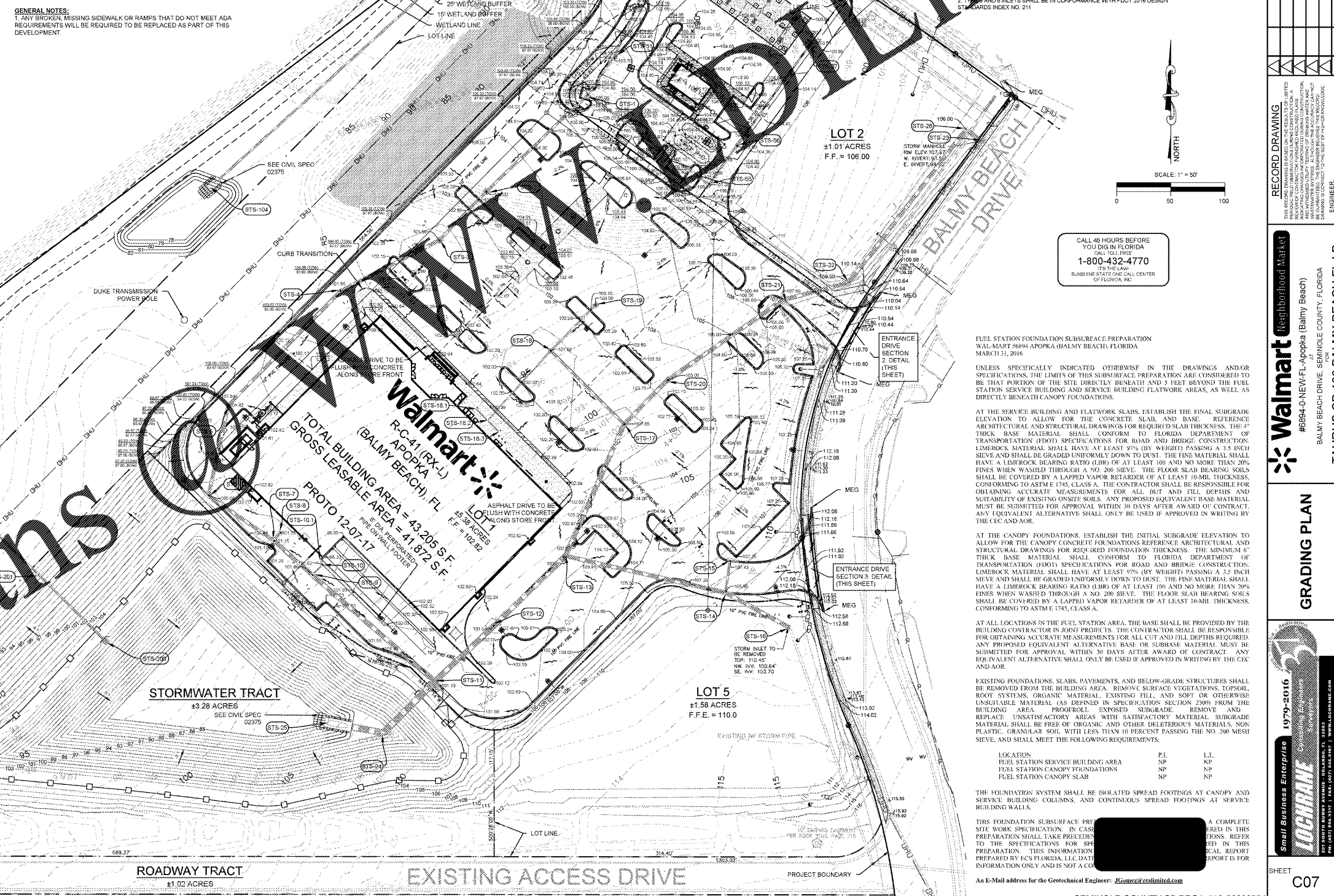
LOCATION WITH RESPECT TO FINAL BUILDING AREA, UPPER 4 FEET BUILDING AREA, UPPER 4 FEET BUILDING AREA, UPPER 4 FEET

SUBGRADE MATERIAL SHALL BE FREE OF LOOSE LINTS OF EXCEEDING 8 INCHES IN THICKNESS AND SHALL BE COMPACTED AT A MINIMUM OF 98 PERCENT AT THE TOP 2 FEET AND 95 PERCENT THROUGHOUT THE REMAINDER OF THE PREPARED MATERIAL TO A MINIMUM DRY DENSITY OF 155 PERCENT OF THE THEORETICAL MAXIMUM DRY DENSITY OF THE OPTIMUM MOISTURE CONTENT.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT COLUMNS AND CONTINUOUS SPREAD FOOTINGS AT WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS SPECIFICATION SHALL TAKE PRECEDENCE OVER THE WAL-MART SPECIFICATIONS.

REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARED BY GEC FLORIDA, LLC DATED MARCH 31, 2016 (GEOLOGICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).



**ALERT TO CONTRACTOR:**  
 ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

- NOTES:**
- LOT GRADING SHALL NOT IMPOSE ANY ADDITIONAL RUNOFF ONTO NOR IMPEDE RUNOFF FROM ADJACENT PROPERTIES.
  - ALL SITE WORK SHOWN SHALL BE CONSTRUCTED BY THE DEVELOPER OR CONTRACTOR.
  - ELEVATIONS SHOWN ARE BASED ON NAVD83. SEE BOUNDARY SURVEY AND TOPOGRAPHIC SURVEY UNDER GENERAL NOTES.
  - FOR PERIMETER WALL HEIGHT SEE "ANCHOR BEAM" AND RETAINMENT WALL DESIGN PLANS BY EGS FLORIDA, LLC.
  - SOIL DENSITY TESTING, SUBSURFACE INVESTIGATIONS AND ALL OTHER GEOTECHNICAL ACTIVITY MUST BE REVIEWED AND COUNTERSIGNED BY A PROFESSIONAL GEOTECHNICAL ENGINEER.
  - ALL EXPOSED AND UNFINISHED PUBLIC ROW WILL BE REPAIRED TO A MINIMUM OF 4" INCHES TO BE SOLID SODDED.
  - BASED ON THE PROPOSED WATER LEVELS ENTERED, CONTROL OF THE EXISTING WATER TABLE IS NOT NECESSARY. EXCAVATIONS, INSTALLATION OF DRAINAGE STRUCTURES, AND COMPACTION OPERATIONS IF NECESSARY, SHALL BE CONTROLLED TO DRAW DOWN THE WATER TABLE TO A MINIMUM OF 18" BELOW THE BOTTOM OF THE EXCAVATIONS.
- FORM STRUCTURE NOTES:**
- FORM AND JOINT LOCATIONS SHALL BE IN CONFORMANCE WITH FDOT 2016 DESIGN STANDARDS INDEX NO. 200.
  - TYPE 1 AND 6 INLETS SHALL BE IN CONFORMANCE WITH FDOT 2016 DESIGN STANDARDS INDEX NO. 211.

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 SUBSISTE STATE ONE CALL CENTER OF FLORIDA, INC.

FUEL STATION FOUNDATION SUBSURFACE PREPARATION  
 WAL-MART #6994 APOPKA (BALMY BEACH), FLORIDA  
 MARCH 31, 2016

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 5 FEET BEYOND THE FUEL STATION SERVICE BUILDING AND SERVICE BUILDING WORK AREAS, AS WELL AS DIRECTLY BENEATH CANOPY FOUNDATIONS.

AT THE SERVICE BUILDING AND PLATWORK SLABS, ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLAB, AND BASE. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. THE 4" THICK BASE MATERIAL SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. LIMEROCK MATERIAL SHALL HAVE AT LEAST 97% (BY WEIGHT) PASSING A 3.5 INCH SIEVE AND SHALL BE GRADUALLY UNIFORM DOWN TO DUST. THE FINE MATERIAL SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF AT LEAST 100 AND NO MORE THAN 20% FINES WHEN WASHED THROUGH A NO. 200 SIEVE. THE FLOOR SLAB BEARING SOILS SHALL BE COVERED BY A LAPPED VAPOR RETARDER OF AT LEAST 10-MIL THICKNESS, CONFORMING TO ASTM E 1745, CLASS A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL BUT AND FILL DEPTHS AND SUITABILITY OF EXISTING ON-SITE SOILS. ANY PROPOSED EQUIVALENT BASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE GEC AND AOR.

AT THE CANOPY FOUNDATIONS, ESTABLISH THE INITIAL SUBGRADE ELEVATION TO ALLOW FOR THE CANOPY CONCRETE FOUNDATIONS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED FOUNDATION THICKNESS. THE MINIMUM 6" THICK BASE MATERIAL SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. LIMEROCK MATERIAL SHALL HAVE AT LEAST 97% (BY WEIGHT) PASSING A 3.5 INCH SIEVE AND SHALL BE GRADUALLY UNIFORM DOWN TO DUST. THE FINE MATERIAL SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF AT LEAST 100 AND NO MORE THAN 20% FINES WHEN WASHED THROUGH A NO. 200 SIEVE. THE FLOOR SLAB BEARING SOILS SHALL BE COVERED BY A LAPPED VAPOR RETARDER OF AT LEAST 10-MIL THICKNESS, CONFORMING TO ASTM E 1745, CLASS A.

AT ALL LOCATIONS IN THE FUEL STATION AREA, THE BASE SHALL BE PROVIDED BY THE BUILDING CONTRACTOR IN JOINT PRODUCTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED. ANY PROPOSED EQUIVALENT ALTERNATIVE BASE OR SUBBASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE GEC AND AOR.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE BUILDING AREA. REMOVE SURFACE VEGETATIONS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSATISFACTORY MATERIAL (AS DEFINED IN SPECIFICATION SECTION 2900) FROM THE BUILDING AREA. PROPOSED SUBSURFACE PREPARATION SHALL REMOVE AND REPLACE UNSATISFACTORY AREAS WITH SATISFACTORY MATERIAL. SUBGRADE MATERIAL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS, NON-PLASTIC, GRANULAR, AND WITH LESS THAN 10 PERCENT PASSING THE NO. 200 MESH SIEVE, AND SHALL MEET THE FOLLOWING REQUIREMENTS:

LOCATION BUILDING AREA, UPPER 4 FEET BUILDING AREA, UPPER 4 FEET BUILDING AREA, UPPER 4 FEET

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT CANOPY AND SERVICE BUILDING COLUMNS, AND CONTINUOUS SPREAD FOOTINGS AT SERVICE BUILDING WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS SPECIFICATION SHALL TAKE PRECEDENCE OVER THE WAL-MART SPECIFICATIONS. REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARED BY GEC FLORIDA, LLC DATED MARCH 31, 2016 (GEOLOGICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).