

REVISIONS	BY

CARLSON CONSULTING ENGINEERS, INC.
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 NORTH CAROLINA CORPORATION # C-3504



SAM'S CLUB #6540-209
 CHARLOTTE, NORTH CAROLINA
 SAM'S REAL ESTATE BUSINESS TRUST
 2101 SE SIMPLE SAVINGS DRIVE
 BENTONVILLE, AR 72716



DRAWN
 TGH
 CHECKED
 BKM
 DATE
 12/17/2019
 SCALE
 1"=20'
 JOB NO.
 6540-209
 SHEET
 10 OF 21

LEGEND

- SAM'S CLUB PROPERTY LINE
- TC --- TOP OF CURB
- TP --- TOP OF PAVEMENT
- HP --- HIGH POINT
- SPOT ELEVATION
- APPROXIMATE SAWCUT LIMITS
- TREE PROTECTION FENCE

20 0 20

- NOTES:**
- THE GENERAL CONTRACTOR SHALL PROVIDE DUMPSTERS, FUEL TANKS, AND TEMPORARY POWER FOR UNRESTRICTED PROJECT RELATED USES OTHER THAN FOR THE OPERATION OF THE PROJECT.
 - ALL UNSURFACED AREAS SHALL RECEIVE 4" TOPSOIL AND SOIL WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
 - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING FOR ALL NATURAL AND PAVED AREAS.
 - SEE PROJECT SPECIFIC WORK SHEET FOR SITE PREPARATION PROCEDURES FOR ALL AREAS EXCLUSIVE OF THE BUILDING, TANK, AND CANOPY PADS.
 - ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS NOTED OTHERWISE.
 - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THIS PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND IN COMPLIANCE WITH CODES INDICATED THEREIN. THE QUALITY OF WORKMANSHIP AND INSTALLATION OF MATERIALS SPECIFIED BY CARLSON CONSULTING ENGINEERS, INC. AND THE ARCHITECT ARE THE RESPONSIBILITY OF THE CONTRACTOR. CARLSON CONSULTING ENGINEERS, INC. AND THE ARCHITECT WILL NOT BE HELD RESPONSIBLE FOR ANY SUBSTANDARD OR INSUFFICIENT WORKMANSHIP, MATERIALS, OR SERVICES PROVIDED IN THE EXECUTION OF ANY PHASE OF CONSTRUCTION OF THIS PROJECT.
 - SEE FOUNDATION SUBSURFACE PREPARATION NOTE FOR GRANULAR MATERIAL UNDER FLOOR SLAB.
 - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE AREA CLEAN AND FREE OF DEBRIS AT ALL TIMES DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL POWER WASH THE ENTIRE FUELING STATION CONSTRUCTION AREA PRIOR TO TURNOVER TO THE OWNER.
 - ALL CONDITIONS SHOWN TO BE "EXISTING" SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED AND SUBMITTED TO THE WALMART CONSTRUCTION MANAGER AND THE ENGINEER FOR REVIEW. CHANGES TO THE ORIGINAL DESIGN OF THE PROJECT DUE TO EXISTING CONDITIONS MUST BE APPROVED BY BOTH THE WALMART CONSTRUCTION MANAGER AND THE ENGINEER PRIOR TO MAKING ANY CHANGES.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF THE EXISTING CONDITIONS OF THE SITE, AND OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO THE FAILURE OF THE GENERAL CONTRACTOR TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
 - EXISTING PAVING THAT WILL REMAIN AFTER CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE. AREAS OF EXISTING PAVING THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE SAWCUT, THEN REMOVED AND REPLACED.
 - THE GENERAL CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES, INCLUDING IRRIGATION, SPECIFIC TO THIS PROJECT PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION. SHOULD ANY UTILITY REQUIRE RELOCATION, CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER AND THE ARCHITECT/ENGINEER.
 - THE PAVEMENT SURROUNDING THE PRODUCT FILL MANHOLE TOPS SHALL BE RAMPED UP 1" HIGHER THAN THE FINISHED GRADE OF THE CONCRETE TANK SLAB TO ENSURE POSITIVE DRAINAGE AWAY FROM THE PRODUCT FILL MANHOLE TOPS. SEE ARCHITECTURE PLANS FOR MORE INFORMATION. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AROUND ALL MANHOLE TOPS.
 - CONTRACTOR SHALL SAWCUT ALONG EDGE OF PAVEMENT REMOVAL LIMITS TO ENSURE CLEAN, STRAIGHT JOINT BETWEEN OLD AND NEW SURFACES.
 - ELEVATION OF NEW PAVEMENT TO MATCH ELEVATION OF PAVEMENT TO REMAIN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE POSITIVE DRAINAGE IN ALL AREAS.
 - THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED GRADES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES SHALL BE SUBMITTED TO CARLSON CONSULTING ENGINEERS FOR REVIEW.
 - THE GENERAL CONTRACTOR SHALL PROTECT ALL NEW CONCRETE PAVING FOR THE TANK SLAB AND UNDER THE CANOPY FROM TIRE MARKS AND DAMAGE.
 - CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING CONSTRUCTION ACTIVITIES IN THE VICINITY OF UTILITIES TO REMAIN.
 - THE CONTRACTOR SHALL ENSURE THAT PONDING OF WATER DOES NOT OCCUR AT THE FRONT OF THE DISPENSERS. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS WITHIN THE CANOPY SLAB AND SERVICE BUILDING AREA.
 - SITE PAVING SHALL BE FLUSH WITH THE TANK SLAB, SERVICE BUILDING APRON, AND CANOPY SLAB.
 - DUE TO INACCESSIBLE MANHOLE UPSTREAM OF STORM SEWER CONNECTION, CEC WAS UNABLE TO CONFIRM EXACT DEPTH OF EXISTING STORM SEWER LINE. CONTRACTOR SHALL FIELD VERIFY ELEVATION OF EXISTING STORM SEWER LINE PRIOR TO BEGINNING STORM SEWER CONSTRUCTION OR ORDERING JUNCTION BOX. ALERT CEC TO ANY DISCREPANCIES.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE IMPROVEMENTS SHOWN BY THESE PLANS.

CAUTION - NOTICE TO CONTRACTOR REGARDING EXISTING UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE PERFORMING ANY CONSTRUCTION ACTIVITIES TO REQUEST EXACT FIELD LOCATIONS OF THEIR UTILITIES. THE CONTRACTOR MUST BE AWARE THAT SOME EXISTING UTILITIES, SUCH AS UNDERGROUND ELECTRIC LINES SERVING PARKING LOT LIGHTING, STORM SEWER LINES, CABLES FOR SECURITY CAMERAS, ETC. MAY NOT BE LOCATED BY LOCAL OR STATE UTILITY COMPANIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY ACCOMMODATIONS TO ACCURATELY LOCATE ALL EXISTING UTILITIES.

ALL EXISTING UTILITIES SERVING THE SAM'S CLUB, SAM'S CLUB PROPERTY, OR ADJACENT DEVELOPMENTS SHALL REMAIN IN PLACE AND OPERATIONAL AT ALL TIMES DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE EXISTING UTILITIES WHEN NECESSARY TO FACILITATE THE REQUIRED IMPROVEMENTS SHOWN BY THESE PLANS. THE CONTRACTOR MUST COORDINATE ANY RELOCATIONS OR MODIFICATIONS TO THE EXISTING UTILITIES WITH THE APPROPRIATE UTILITY COMPANY, SAM'S CLUB STORE MANAGER, AND WALMART CONSTRUCTION MANAGER.

UNDERCUTTING NOTICE

THE CONTRACTOR IS SPECIFICALLY CAUTIONED REGARDING THE PRESENCE OF POTENTIALLY UNSTABLE SOILS ON THIS SITE AND THE NEED FOR UNDERCUTTING AND/OR STABILIZATION. THE CONTRACTOR'S BASE BID SHALL INCLUDE PROVISIONS FOR ADDRESSING THIS CONDITION.

DEWATERING/GROUNDWATER NOTICE

THE CONTRACTOR IS SPECIFICALLY CAUTIONED REGARDING THE PRESENCE OF GROUNDWATER ON THIS SITE. WHEN PERFORMING GRADING OPERATIONS CONTRACTOR SHALL PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. REFER TO MASTER SITE SPECIFICATIONS. THE CONTRACTOR'S BASE BID SHALL INCLUDE PROVISIONS FOR ADDRESSING THIS CONDITION.

FOUNDATION SUBSURFACE PREPARATION

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 CANOPY SLAB, SERVICE BUILDING, AND SERVICE BUILDING FLATWORK AREAS. THE BASE DOES NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL FUEL STATION CANOPY SLAB, SERVICE BUILDING, AND SERVICE BUILDING FLATWORK AREAS.

ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLAB AND BASE. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. THE 4-INCH THICK BASE MATERIAL SHALL CONFORM TO MCDOT SECTION 1005, STANDARD SIZE NO. 57. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED. ANY PROPOSED EQUIVALENT ALTERNATIVE 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 CEC AND AGR.

REMOVE EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, GUTTERS AND SIDEWALKS, VEGETATION AND TOPSOIL, AND ANY OTHER UNSUITABLE MATERIALS FROM THE PROPOSED FUEL STATION AND PAVEMENT AREAS. IN ADDITION REMOVE EXISTING FILL MATERIALS DIRECTLY BENEATH AND 5 FEET BEYOND THE FUEL STATION CANOPY SLAB, SERVICE BUILDING, AND SERVICE BUILDING FLATWORK AREAS AND REPLACE WITH PROPERLY COMPACTED ENGINEERED FILL. AFTER THE STRIPPING OPERATIONS AND REMOVAL AND REPLACEMENT OF EXISTING FILL, PROPPOLL EXPOSED SUBGRADE WITH A LOADED TANDUM AXLE DUMP TRUCK. UNSTABLE AREAS OBSERVED DURING THE SUBGRADE PROPPOLLING SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO THE PROJECT SPECIFICATIONS, OR UNDERCUT AND REPLACED WITH PROPERLY COMPACTED ENGINEERED FILL.

GRANULAR SOILS FALLING WITHIN THE UNIFIED SOIL CLASSIFICATION SYSTEM GW, GM, GC, SW, SC, SM SOIL GROUPS SHALL BE USED FOR ENGINEERED FILL WITHIN 2 FEET OF FINISHED SUBGRADE ELEVATIONS WITHIN THE PROPOSED FUEL STATION AND PAVEMENT AREAS. BELOW A DEPTH OF 2 FEET OF THE FINISHED SUBGRADE ELEVATIONS, SILT AND LEAN CLAY SOIL HAVING A LIQUID LIMIT (LL) LESS THAN 50 AND A PLASTICITY INDEX (PI) OF LESS THAN 20 MAY ALSO BE USED FOR ENGINEERED FILL.

NEW FILL AND BACKFILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 9 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D699) AT A MOISTURE CONTENT WITHIN 2 PERCENT BELOW TO 3 PERCENT ABOVE THE OPTIMUM.

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 PREPARATION SHALL TAKE PRECEDENCE OVER THE WAL-MART SPECIFICATIONS. REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THE PREPARATION. THIS INFORMATION WAS TAKEN FROM A GEOTECHNICAL REPORT PREPARED BY TERRACON, DATED MARCH 24, 2014 (GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).

TREE REPLACEMENT REQUIREMENT

EXISTING SITE TO REMAIN IN COMPLIANCE WITH THE TREE ORDINANCE. ANY TREES THAT ARE DEAD, DYING, DISEASED, OR MISSING SHALL BE REPLACED PER THE CITY TREE ORDINANCE.

Order Plans @



GRADING PLAN