

1232 washington ave.
suite 310
st. louis, mo 63103
p: 314.241.6262
f: 314.241.6263
www.m2astudio.com



PERMIT/CONSTRUCTION SET
DATE: MAY 4, 2018

CONTRACT DATE: XX-XX-XX
BUILDING TYPE: EXPLORER LITE 40
PLAN VERSION: DECEMBER 2017
SITE NUMBER: XXX-XXX
STORE NUMBER: XXXXX

TACO BELL
101 MONTGOMERY CROSSING
BISCOE, NC 27209

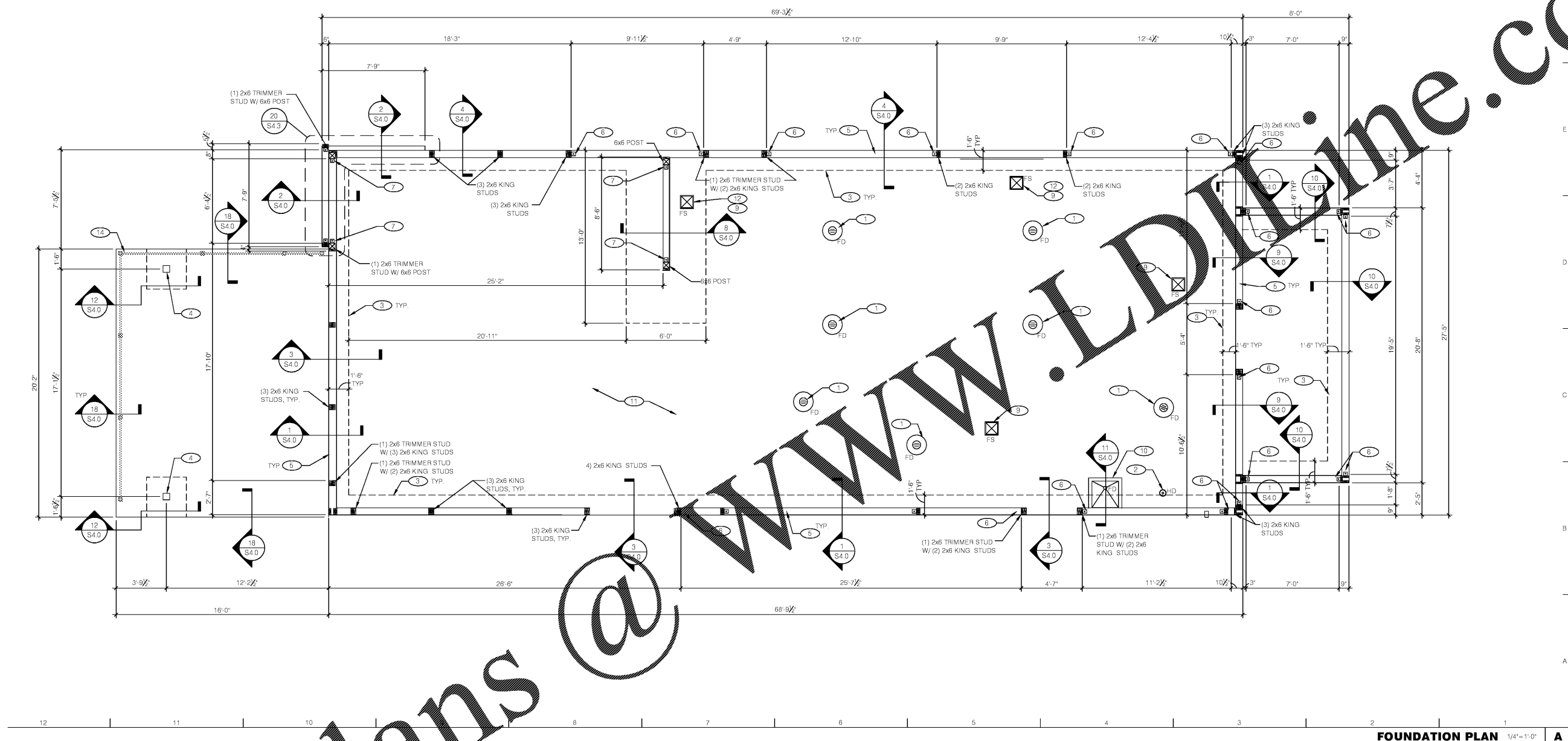


EXPLORER LITE
MEDIUM 40

FOUNDATION PLAN

S1.0

PLOT DATE:



DESIGN CRITERIA

DESIGN CRITERIA	F
DESIGN CRITERIA 2012 NORTH CAROLINA BUILDING CODE	
ROOF SNOW LOADS:	
GROUND SNOW LOAD (Pg)	10 PSF
EXPOSURE FACTOR (Ce)	1.0
IMPORTANCE FACTOR (I)	1.0
FLAT-ROOF SNOW LOAD (Ps)	10 PSF + DRIFT
THERMAL FACTOR (Ct)	1.0
ROOF LOADS:	
LIVE LOAD	20 PSF
DEAD LOAD	10 PSF
WIND LOADS:	
3 SECOND GUST	115 MPH
IMPORTANCE FACTOR	1.0
EXPOSURE CATEGORY (MNF)	B
INTERNAL PRESSURE COEFF	+0.18
REGISTERED ENGINEER FOR SIGNS AND ADVERTISING	

FOUNDATION

- REMOVE AND RECOMPACT THE EXISTING IN-SITU FILL IN THE PROPOSED BUILDING AREA AS OUTLINED IN THE GEOTECHNICAL REPORT.
- THE EXPOSED SUBGRADE SHOULD BE PROOF-ROLLED TO LOCATE ANY SOFT OR LOOSE AREAS IN ACCORDANCE WITH ITEM STATE DOT SPECIFICATIONS. SOILS THAT ARE OBSERVED TO RUT OR DEFLECT UNDER THE MOVING LOAD SHOULD BE UNDERCUT. THE PROOF ROLLING AND UNDERCUTTING ACTIVITIES SHOULD BE WITNESSED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.
- AFTER PROOF ROLLING, THE UPPER 6 INCHES OF THE SUBGRADE SHOULD BE SCARIFIED, MOISTURE CONDITIONED TO A RANGE BETWEEN +1 TO +3 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE VALUE, AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-4958.
- AFTER SUBGRADE PREPARATION IS COMPLETE, THE PLACEMENT OF STRUCTURAL FILL MAY BEGIN. THE STRUCTURAL FILL MATERIALS SHOULD BE FREE OF ORGANICS OR OTHER DELETERIOUS MATERIALS AND SHOULD HAVE A MAXIMUM PARTICLE SIZE LESS THAN 2 INCHES. THE STRUCTURAL FILL MATERIAL SHOULD HAVE A LIQUID LIMIT LESS THAN 35 AND A PLASTICITY INDEX BETWEEN 6 AND 15. THE FILL SHOULD BE PLACED IN COMPACTION CONTROLLED 8 INCH HORIZONTAL LIFTS AND SHOULD BE COMPACTED WITHIN THE RANGE OF +2 TO +3 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE, AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-4958. EACH LIFT OF STRUCTURAL FILL SHOULD BE TESTED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.
- THE EXPOSED SUBGRADE SHALL BE PROTECTED AGAINST EXCESSIVE DRYING OR EXPOSURE TO MOISTURE. THE SITE SHALL BE GRADED TO PREVENT PONDING OF WATER WITHIN EXCAVATED AREAS. ACCUMULATED WATER SHALL BE REMOVED IMMEDIATELY. EXCAVATIONS FOR FOUNDATIONS SHOULD BE FILLED WITH CONCRETE BEFORE THE END OF THE WORKDAY OR SOONER IF NECESSARY TO PREVENT DETERIORATION OF THE BEARING SURFACE. IF DELAYS OCCUR, THE EXCAVATION SHOULD BE DEEPEMED AS NECESSARY AND CLEANED, IN ORDER TO PROVIDE A FRESH BEARING SURFACE. IF MORE THAN 24 HOURS OF EXPOSURE OF THE BEARING SURFACE IS ANTICIPATED IN THE EXCAVATIONS, A MUD SLAB SHOULD BE USED TO PROTECT THE BEARING SURFACE. IF A MUD SLAB IS USED, THE FOUNDATION EXCAVATIONS SHOULD INITIALLY BE OVER-EXCAVATED BY APPROXIMATELY 4 INCHES AND A LEAN CONCRETE MUD SLAB OF APPROXIMATELY 4 INCHES IN THICKNESS IS PLACED IN THE BOTTOM OF THE EXCAVATIONS IMMEDIATELY FOLLOWING EXPOSURE OF THE BEARING SURFACE.
- THIS PAD PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. REFER TO THE GEOTECHNICAL REPORT FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION.

SUBGRADE PAD PREPARATION RECOMMENDATIONS

- THESE SUMMARY RECOMMENDATIONS ARE ASSUMED. SOILS ENGINEER SHALL VERIFY THESE ASSUMPTIONS FROM A GEOTECHNICAL INVESTIGATION.
- UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH THE BUILDING AND TEN FEET BEYOND. BUILDING IS REFERRING TO AND INCLUDES ALL AREAS AS SHOWN ON SHEET S1.0. THE VAPOR RETARDER, WHERE REQUIRED, DOES NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING.
- ALL VEGETATION, CONCRETE, STUMPS, BRUSH, ABANDONED STRUCTURES, ROOTS, RUBBISH, AND ANY

CONCRETE

CONCRETE SHALL BE HARD ROCK CONC. (5 SACK CEMENT PER CU YD. MIN) AND MEET THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:

LOCATION	MIN. STRENGTH (28 DAYS) PSI	AGGREGATE SIZE - INCHES	SLUMP - INCHES	TOLERANCE
SLAB ON GRADE	4000 DESIGN	1" x #4	3-1/2"	+1/2"
FOUNDATIONS	4000 DESIGN	1" x #4	3-1/2"	+1/2"

SLAB

DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED W/ 6#6-W1 4x1 4 WWR OR #4 BARS @ 18" O.C. EA. WAY, OVER 10 MIL VISQUEEN MEMBRANE, OVER 6" CRUSHED ROCK COPULAR FILL BASE, OVER ENGINEERED SUBGRADE. MODIFY AS REQUIRED TO COMPLY WITH REQUIREMENTS OF SOILS REPORT.

MISCELLANEOUS:

- DIMENSIONS NOTED ARE TO FACE OF CONCRETE. REFER TO DWG. A1.0 FOR DIMENSIONS TO FACE OF STUD AND OTHER DIMENSIONS NOT OTHERWISE NOTED. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
- SEE PLUMB. DWGS. FOR PLUMB. LAYOUT DIMENSIONS, U.N.O.
- SEE ELEC. DWGS. FOR ELEC. LAYOUT DIMENSIONS, U.N.O.
- COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO POURING SLAB.

FOUNDATION PLAN NOTES

- SLAB SHALL BE PITCHED 1/4" FOR 18" SONOTUBE AT ALL FLOOR DRAINS U.N.O. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
- PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS). REFER TO PLUMBING DRAWINGS FOR SIZE & LOCATIONS.
- INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.
- HSS6x6x1/4 COL. SUPPORT BY CONCRETE PADS 3'-0"x3'-0"x12" THICK.
- ANCHOR BOLTS LOCATED THROUGHOUT PERIMETER OF BUILDING SHALL BE PROVIDED AS REQUIRED PER THE "PLATE ANCHOR BOLT" COLUMN OF THE "WALL SHEATHING AND SHEARWALL SCHEDULE". SEE DWG 0.
- HDU4 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/54.0 FOR HOLDOWN EMBEDMENT DETAIL.
- HDU14 HOLDOWN ANCHOR AT EACH END OF FRONT SHEARWALL. SEE 6/54.0 FOR HOLDOWN EMBEDMENT DETAIL.
- NOT USED.
- FLOOR SINK REFER TO PLUMBING DRAWINGS FOR LOCATION.
- CONCRETE MOP SINK CURB. SEE SECTION 11/54.0.
- 4" CONCRETE SLAB REINFORCED W/ 6#6-W1 4x1 4 WWR OR #4 BARS @ 18" O.C. EACH WAY, OVER 6" AGGREGATE BASE OVER SUBGRADE. MODIFY AS REQUIRED BY GEOTECHNICAL ENGINEER.
- FORM FOOTING TO ACCOMMODATE FLOOR SINK AND DRAIN LINE INSTALLATION.
- NOT USED.
- RAILING POST AND RAILING PER ARCHITECTURAL.

KEY NOTES

Order Plans

@ WWW.LDVLIVE.COM