

DIMENSIONS THIS SHEET ARE TO FACE OF CONCRETE

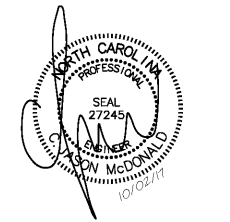
SEE 17/S4.0 FOR CONTROL JOINT DETAIL

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12144.400

CONTRACT DATE: 10.23.17
 BUILDING TYPE: EXP. LITE MED 40
 PLAN VERSION: DECEMBER 2016
 SITE NUMBER: 311687
 STORE NUMBER: 436563

TACO BELL
 3923 SHAKEDOWN ST.
 CHARLOTTE, NC



EXPLORER LITE
 MEDIUMS4

FOUNDATION PLAN

S1.0

PLOT DATE:

FOUNDATION PLAN 1/4" = 1'-0" **A**

DESIGN CRITERIA:
 2012 INTERNATIONAL 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 (Pf): 10 PSF + DRIFT
 THERMAL FACTOR (Ct): 1.0

LIVE LOAD: 20 PSF
DEAD LOAD: 20 PSF

WIND LOADS:
 3 SECOND GUST: (Vh, Vtop) 115 MPH @ 30 MPH
 RISK CATEGORY: II
 EXPOSURE CATEGORY (IMF): B
 INTERNAL PRESSURE COEFFICIENT (Cpi): 0.0

SEISMIC LOADS:
 SEISMIC OCC. CATEGORY: II
 SEISMIC IMPORTANCE FACTOR: 1.0
 MAPPED SPECTRAL RESPONSE ACCEL.: Ss = 0.20
 SHORT PERIODS (S1): 0.100
 SEC. PERIODS (S2): 0.245
 SEISMIC DESIGN CATEGORY: B
 FRAGILITY SYSTEM: 3 KIPS
 ANALYSIS BY ELF PROCEDURE

PROVIDE SHEET DRAWINGS AND CALCULATIONS BY REGISTERED ENGINEER FOR SIGNS AND AWNING.

REFER TO S5.0 FOR SNOW DRIFT LOADING DIAGRAM

Design Wind Pressure (psf)

Winds	Effective Wind Area (sqft)					
	10	20	30	100	200	500
Interior Area 1	18.0	18.0	18.0	18.0	18.0	18.0
Edge Area 2	17.9	17.1	16.0	16.0	16.0	16.0
Corner Area 3	17.8	17.1	16.0	16.0	16.0	16.0
Roof	19	20	20	100	200	500
Interior Area 1	18.0	18.0	18.0	18.0	18.0	18.0
Edge Area 2	17.9	17.1	16.0	16.0	16.0	16.0
Corner Area 3	17.8	17.1	16.0	16.0	16.0	16.0
Roof	19	20	20	100	200	500
Interior Area 1	18.0	18.0	18.0	18.0	18.0	18.0
Edge Area 2	17.9	17.1	16.0	16.0	16.0	16.0
Corner Area 3	17.8	17.1	16.0	16.0	16.0	16.0

Parapet Design Pressure (psf)

Parapets	Effective Wind Area (sqft)					
	10	20	30	100	200	500
Edge Area 2	57.8	52.3	44.9	38.4	38.4	37.0
Corner Area 3	40.9	38.4	33.7	31.2	31.2	29.5
Interior Area 1	57.8	52.3	44.9	38.4	38.4	37.0
Corner Area 3	48.2	43.2	38.1	33.0	33.0	32.0

CORNER & EDGE ZONES ARE 3.0 FEET WIDE

FOUNDATION:

A. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT TITLED "REPORT OF SUBSURFACE EXPLORATION, TACO BELL - U.S. HIGHWAY 29" PROVIDED BY UNITED CONSULTING DATED MAY 31, 2017. (PROJECT NO. CMARE-17-GA-01336-01)

B. CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN. SEE ELECTRICAL DRAWINGS FOR DETAIL.

C. COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT.

D. CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.

E. REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION.

F. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THROUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS. LOWER FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.

G. MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.

H. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR GUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.

I. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.

J. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

K. CONTRACTOR SHALL OBTAIN THE SOILS REPORT AND FOLLOW ALL RECOMMENDATIONS FOR SUBGRADE PREPARATION.

CONCRETE:

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

LOCATION	28 DAYS PSI (3000 DESIGN)	MIN. STRENGTH	AGGREGATE SLUMP	SIZE - INCHES	TOLERANCE
SLAB ON GRADE	4000	3750	3-1/2"	1 1/2"	±1/2"
FOUNDATIONS	4000	3750	3-1/2"	1 1/2"	±1/2"

B. CONCRETE MIX DESIGN AND TESTING SHALL MEET WITH THESE SPECS. CEMENT SHALL BE IN ACCORDANCE WITH ASTM C 150 TYPE II. VERIFY MIN. CONC. STRENGTH AND CEMENT TYPE.

C. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.

D. CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-11 SECTION 5.11 AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY COMMITTEE 308.

SLAB:

A. DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED W/ WWR @ 6" W-1.4x1.4 GR #4 BARS @ 18" O.C. EA. WAY, OVER 10 MIL VISQUEEN MEMBRANE, OVER 4" AGGREGATE BASE, OVER ENGINEERED SUBGRADE. MODIFY AS REQUIRED TO COMPLY WITH REQUIREMENTS OF SOILS REPORT. LAP MEMBRANE EDGES @ MINIMUM AND TAPE.

MISCELLANEOUS:

A. DIMENSIONS NOTED ARE TO FACE OF CONCRETE. REFER TO DWG. A1.0 FOR DIMENSIONS TO FACE OF STUD AND OTHER DIMENSIONS NOT OTHERWISE NOTED.

B. DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

C. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.

D. SEE PLUMB DWGS. FOR PLUMB LAYOUT DIMENSIONS, U.O.N.

E. SEE ELECT. DWGS. FOR ELECT. LAYOUT DIMENSIONS, U.O.N.

F. COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO POURING SLAB.

- 1 SLAB SHALL BE PITCHED 1/4" FOR 5'-0" x 5'-0" SQUARE AT ALL FLOOR DRAINS U.O.N. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
- 2 PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK (FS).
- 3 INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.
- 4 HTTS HOLDOWN ANCHOR. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
- 5 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 D/S2.0.
- 6 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.
- 7 HDU14 OR HD19 HOLDOWN ANCHOR AT EACH END OF SHEARWALL. SEE 7/S4.0 FOR HOLDOWN EMBEDMENT DETAIL AND S2.0 FOR SHEARWALL SCHEDULE.
- 8 INTERIOR WALLS (TYP.) SEE SHEET S2.0
- 9 CONTINUE SHEARWALL SHEATHING PAST INTERSECTING WALL W/O INTERRUPTION.
- 10 NOT USED
- 11 SLOPE COOLER SLAB TO DOORWAY. REFER TO ARCHITECTURAL DRAWINGS.
- 12 SEE 14/S4.0 FOR REINFORCING AT CORNERS AND INTERSECTIONS.

DESIGN CRITERIA **F** **COMPONENT & CLADDING PRESSURES** **E** **FOUNDATION PLAN NOTES** **C** **KEY NOTES** **B**