

DIMENSIONS THIS SHEET

TO EDGE OF CONCRETE

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

KEY NOTES N.T.S.

DESIGN CRITERIA:	

2012 WEST VIRGINIA STATE BUILDING CODE

GROUND SNOW LOAD (Pg): EXPOSURE FACTOR (Ce): 1.0 IMPORTANCE FACTOR (I): 1.0 FLAT-ROOF SNOW LOAD (Pf): 20 PSF + DRIFT THERMAL FACTOR (Ct): 1.0

LIVE LOAD: DEAD LOAD:

JLTIMATE WIND SPEED: Vult = 115 MPHNOMINAL WIND SPEED Vasd = 89 MPHIMPORTANCE FACTOR: EXPOSURE CATEGORY (MWFRS): B INTERNAL PRESSURE COEFF.: ±0.18 COMPONENT & CLADDING

DESIGN PRESSURE: 24.0 PSF DESIGN UPLIFT (NET): 10.0 PSF

ANALYSIS BY EQUIVALENT LATERAL FORCE PROCEDURE

EISMIC USE GROUP:

SITE CLASS:

Ss: 0.1030

S₁: 0.0540

SESMIC IMPORTANCE FACTOR: 1.0

SPECTRAL RESPONSE COEFF.:

SHORT PERIODS (SDS):

1 SEC. PERIODS (SD1)

FRAMING SYSTEMS:

BEARING WALL SYSTEM

WOOD SHEAR WALLS

DEFL. AMPL. FACTOR (Cd):

DESIGN BASE SHEAR (V):

MAPPED SPECTRAL RESPONSE ACCEL:

BASIC STRUCTURAL SYSTEM: LOAD

SEISMIC-RESTRICTING SYSTEM:

RESPONSE MOD. FACTOR (R): 6.5

0.110

0.086

4.0

0.017V

PROVIDE SHOP DRAWINGS AND CALCULATIONS BY REGISTERED ENGINEER FOR ROOF TRUSSES, SIGNS AND AWNINGS

20 PSF

SUBGRADE PAD PREPARATION RECOMMENDATIONS

FOUNDATION

THESE SUMMARY RECOMMENDATIONS ARE PROVIDED FROM THE 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 FIVE FEET BEYOND. BUILDING IS REFERRING TO AND INCLUDES ALL AREAS AS SHOWN ON SHEET S1.0. THE VAPOR BARRIER, WHERE REQUIRED, DOES NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL

FOUNDATION AND RETAINING WALL DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING

FEBRUARY 4, 2016 & FEBRUARY 25, 2016, PROJECT NO. N2165027.

4. CONTRACTOR SHALL TREAT SOIL BELOW SLAB FOR TERMITES.

FOUNDATION DESIGN IS BASED ON 2,000 PSF ALLOWABLE BEARING CAPACITY.

REFER TO THE GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK,

MAINTAIN SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.

STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE STRUCTURES.

SEE ELECTRICAL DRAWINGS FOR DETAIL.

ONTO ADJACENT TRENCH EXCAVATIONS.

PERTINENT REQUIREMENTS AND INFORMATION.

FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.

REPORTS ENTITLED PROPOSED TACO BELL RESTAURANT BY TERRACON CONSULTANTS, INC. DATED

COORDINATE STRUCTURAL PLANS AND DETAILS WITH REQUIREMENTS OF GEOTECHNICAL REPORT.

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

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

ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND

PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE

10. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM

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

ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THROUGH THE GRADE BEAMS. ALTERNATIVELY,

CONTRACTOR TO PROVIDE FOUNDATION & FOOTING AS REQUIRED FOR PYLON OR MONUMENTAL SIGN.

OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER

- 3. ALL VEGETATION, CONCRETE, STUMPS, BRUSH, ABANDONED STRUCTURES, ROOTS, RUBBISH, AND ANY OTHER UNDESIRABLE MATTER SHOULD BE REMOVED AND STRIPPED TO A DEPTH OF 6 INCHES. AFTER DEMOLITION ACTIVITIES ARE COMPLETED, TEST PIT EXPLORATIONS ARE RECOMMENDED PER THE GEOTECHNICAL REPORT. 4. FILL MATERIALS AND ORGANIC SOILS SHOULD BE EXCAVATED AND REMOVED PER THE GEOTECHNICAL
- 5. THE EXPOSED SUBGRADE SHOULD BE PROOF-ROLLED TO LOCATE ANY SOFT OR LOOSE AREAS IN ACCORDANCE WITH ITEM 216 OF TXDOT 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. 6. AFTER SUBGRADE PREPARATION IS COMPLETE, THE PLACEMENT OF STRUCTURAL FILL MAY BEGIN. THE STRUCTURAL FILL MATERIALS SHOULD BE GRANULAR FILL, AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. 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 DEEPENED 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 SURFACES. 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. 8. THIS PAD PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. REFER TO

THE GEOTECHNICAL REPORT FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION.

A. DESIGN IS BASED UPON 4" THICK CONCRETE SLAB REINFORCED W/ WWF 6x6-W1.4x1.4 OR #4 BARS @ 18" O.C. EA. WAY, OVER 15 MIL STEGO WRAP VAPOR BARRIER, OVER 4" AGGREGATE BASE, OVER ENGINEERED SUBGRADE. MODIFY AS REQUIRED TO COMPLY WITH REQUIREMENTS OF SOILS REPORT.

<u>CONCRETE:</u> A. CONCRETE SHALL BE HARD ROCK CONC. (5 SACK CEMENT PER CU.YD. MIN.) AND MEET

MIN. STRENGTH AGGREGATE SLUMP

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

C. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. STEEL SHALL BE KEPT

CONCRETE CURING SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ACI-318-95

ANCHOR BOLTS - A36 OR A307, USE 5/8" DIAMETER x 12" ANCHOR BOLTS (A.B.) AT 72" O.C.

SECTION 5.11 AND STANDARD PRACTICE FOR CURING CONCRETE REPORTED BY

U.O.N. ANCHOR BOLTS SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONC.

INCHES 3-1/2"

THE FOLLOWING MIN. ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS:

LOCATION 28 DAYS PSI SIZE - INCHESS SLAB ON GRADE (4,000 DESIGN) 1" x #4

(3,000 DESIGN)

CLEAN AND FREE OF RUST.

COMMITTEE 308.

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.
- 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. SEE PLUMB. DWGS. FOR PLUMB. LAYOUT DIMENSIONS, U.O.N. SEE ELECT. DWGS. FOR ELECT. LAYOUT DIMENSIONS, U.O.N.
- COORD. FOUNDATION AND SLAB LAYOUT WITH OTHER TRADES PRIOR TO POURING

- SLAB SHALL BE PITCHED 1/2" FOR 5'-0" x 5'-0" SQUARE AT ALL FLOOR DRAINS U.O.N. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
- 2 SHEARWALL HOLDOWN, REFER TO D/S2.0 FOR SIZE & SEE DETAILS 19 & 20/S4.1. FOR ANCHOR BOLT, SEE D/S2.0. AND DETAIL 12/S4.0.
- CONTINUE SHEAR WALL SHEATHING PAST INTERSECTING WALL WITHOUT INTERRUPTION.
- 4 3-2x6 WINDOW POST SEE DET. 11/S4.0.
- 5 INDICATES INSIDE SURFACE OF GRADE BEAM. SEE SHEET S4.0.
- 6 PROVIDE HUB DRAIN (HD) UNLESS REQUIRED BY LOCAL CODE TO HAVE FLOOR SINK
- 7) INDICATES INSIDE SURFACE OF FOOTING. SEE SHEET S4.0.
- (8) LINE OF DRIVE-THRU CURB. SEE CIVIL DRAWINGS.
- 9 6x6 POST AT HDU14 HOLDOWN.
- (10) 6" WIDE x 6" HIGH CURB.

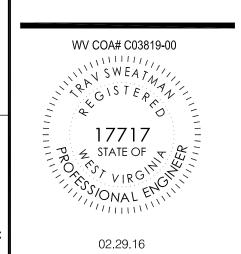
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- 6x6 POST AT HD19 HOLDDOWN ANCHOR AT EACH END OF INTERIOR SHEARWALL. SEE DETAIL 7/S4.0 FOR HOLDOWN EMBEDMENT DETAIL,
- 12) HTT5 HOLDOWN ANCHOR. SEE 6/S4.0 FOR HOLDOWN EMBEDMENT DETAIL.

3535 ferry roa waynesville, oh 4506 6 1 7 . 3 3 1 . 2 5 4 kathleendayarchitect@qmail.co

ENGINEERING, LLC

WV COA# - C03819-00 1999 CALLOWAY LANE FRISCO, TEXAS 75034 PH: 972-849-2987 FAX: 972-712-5038 EMAIL: trav@tcseng.com



RETAINING WALL

ONTRACT DATE: BUILDING TYPE: LIVE MAS-Medium 40 PLAN VERSION: REV P ~ NOV '15 ITE NUMBER: TORE NUMBER:

TACO BELL 770 National Road



Wheeling, WV 26003

MEDIUM 40

FOUNDATION

FOUNDATION PLAN NOTES DESIGN CRITERIA