

Design Specifications:

- ASCE 7-10
ACI 318-11
ACI 530-11
ASCE 360-10
ASCE 341-10
AISI S100-07
ANSI/AF&PA NDS-12

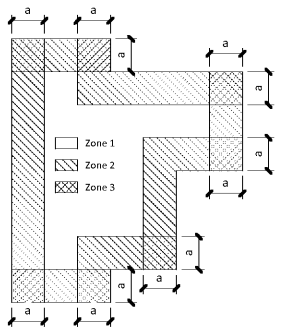
Design Loads:

- Roof Loads: Dead Load: 15 psf, Live Load: 20 psf
Wind Loads: Occupancy: II, Velocity: 115 mph, Exposure: C, Iw: 1.0
Seismic Loads: Ie: 1.0, Se: 0.084 g, S1: 0.050 g, Site Class: D (Assumed), Sds: 0.089 g, Sd1: 0.081 g, Seismic Design Category: C, Seismic Force-Resisting System: L.F.S.W., Design Base Shear: Cs\*W, Cs: 0.0138, R: 6.5, Analysis Procedure Used: E.L.F.P.

Design Loading Notes:

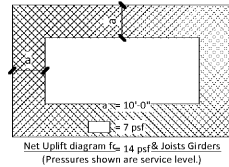
- 1. Dead load shown includes collateral load of 3 psf.
2. See components and cladding table for design wind pressures.
3. See net uplift diagram for post due to wind pressures.

Table with 4 columns: Zone, Effective Wind Area (sq ft), Max. +VE Pressure (psf), Max. -VE Pressure (psf). Rows include Roof Interior, Roof Edge, Roof Corner, Wall Interior, and Wall Edge for various zones.



Components & Cladding Wind Zone Diagram

- 1. The components & cladding (C&C) wind pressures shown assume a mean roof height of 15'-0" above finished floor elevation.
2. The components & cladding wind zone diagram is generalized to show all possible conditions.
3. a = 10 ft
4. Internal Pressure Coefficient = +/- 0.18



Net Uplift diagram for 14 psf & Joists/Girders (Pressures shown are service level.)

General:

- 1. The structural systems shown on these documents have been designed for the final, in place usage of the structure based on the intended occupancy and code requirements.
2. The Contractor shall field verify all existing dimensions prior to fabrication.
3. The Contractor shall notify the Engineer of any observed discrepancies in dimensions, detailing, or other items as shown on the plans or specified prior to proceeding with work relating to said discrepancies.
4. The Contractor shall not alter or modify work shown on the structural drawings without receiving written approval from the Engineer.
5. The Contractor shall be responsible for supplying shop drawings for metal deck, reinforcing steel, and concrete mix designs.
6. See architectural, mechanical, and electrical drawings for other pertinent information related to the structural work and coordinate as required.
7. The building and the independent structural components shown in these documents are not structurally stable until all connections, framing, shear walls, diaphragms, permanent bracing, metal decking, interior and exterior concrete slabs on grade, and exterior or interior load-bearing walls are complete and have achieved their design strength.
8. The Contractor is responsible for verifying all existing dimensions and conditions of the existing building and reporting discrepancies from the assumed conditions shown on the structural drawings to the Engineer of record prior to fabrication and erection of any member.
9. The Contractor shall coordinate the roof drainage system with the Architect as required to ensure that no more than 3 inches of water can accumulate before entering an overflow drainage system.

Structural Engineer Site Observations:

- 1. The contract structural drawings & specifications represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction.
2. The Engineer shall not have control nor charge of and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions & programs in connection with the work.
3. Periodic site observation by field representatives of BSE Structural Engineers LLC, for the purpose of determining if the work of the Contractor is proceeding in general accordance with the structural contract documents.

Slab On Grade:

- 1. Welded wire fabric shall be supplied in sheets only. Rolls will not be permitted.
2. Welded wire fabric shall be supported on chairs or blocks prior to concrete placement.
3. Welded wire fabric shall have end and edge laps of one full mesh plus 2" between cross wires.
4. Welded wire fabric shall conform to ASTM A185.
5. Floor finish requirements: Slab-on-grade shall be finished to overall floor flatness, overall floor levelness, local floor flatness, and local floor levelness requirements as defined by the Owner.

Foundations:

- 1. Foundations for this project have been designed based on an assumed allowable soil bearing pressure of 2,000 psf.
2. Anchor rods shall conform to ASTM F1554 Gr. 36 and shall be located by means of a template.
3. All foundations shall be square and level.
4. Grout shall be dry and stiff to prevent shrinkage, with a minimum compressive strength of 4000 psi.

Concrete and Reinforcing Steel:

- 1. Concrete mix designs shall meet the following requirements:

Table with 6 columns: Location, Minimum Compressive Strength (psi), Max. Aggregate Size, Max. Water/Cement Ratio, Slump (in.), Air Entrainment (%). Rows include Interior Slabs, Interior Foundations, and Perimeter Foundations.

- 1. Fly ash shall not be used unless approved in writing by the Engineer.
2. The use of admixtures to increase the slump shall not be used unless approved in writing by the Engineer.
3. All concrete is reinforced unless specifically called out as unreinforced.
4. Construction joints in grade beams shall be at midspan unless noted otherwise.
5. Construction joints in continuous through construction joints shall be continuous through construction joints unless noted otherwise.
6. No aluminum items shall be embedded in any concrete or placed in contact with concrete.
7. Reinforcing bars #4 and larger (except ties and stirrups) shall meet ASTM A615 with Supplementary Requirements (S1), Grade 60.
8. Concrete coverage of reinforcement shall have the following clear distances unless noted otherwise on the drawings:
9. Embedded and all reinforcing bars marked continuous shall be embedded to develop the full tensile capacity of the bar.
10. Supply corner bars 4'-0" long (min. 2'-0" in each direction) in outside face of wall at corners of all walls and grade beams.
11. All bars are to be supported in forms and spaced with wire bar supports per ACI Manual of Standard Practice for Detailing Concrete Structures.
12. Concrete placed during cold weather shall conform to the requirements of ACI 306R-88.
13. Concrete placed during hot weather shall conform to the requirements of ACI 305R-91.
14. Do not add water to concrete during delivery, at Project Site, or during placement, unless approved by the Engineer.
15. Provide 3/4" chamfer on all exposed corners unless noted otherwise on architectural or structural construction documents.
16. All cold joints shall be roughened and cleaned unless noted otherwise.

Post-Installed Anchors:

- 1. Post-Installed anchors shall only be used where specified in the construction documents.
2. The Contractor shall obtain written approval from the Engineer prior to installing post-installed anchors for mis-placed anchors.
3. Care shall be taken when installing post-installed anchors to avoid damaging existing reinforcement.
4. The holes shall be drilled and cleaned in accordance with the manufacturer's specifications.
5. Post-installed anchors shall meet ACI 308 Appendix D criteria.
All adhesive anchoring systems referred to in these drawings shall be one of the following:
a. HIT HY 200
b. Hilti HIT 100+ Gold
c. Simpson Strong-Tie SET-XP
d. Or Approved Equivalent
All screw anchors referred to in these drawings shall be one of the following:
a. Hilti KH-EZ
b. Powers Wedge Bolt+
c. Simpson Strong-Tie Titen HD
d. Or Approved Equivalent

Rough Carpentry:

- 1. All roof, floor and wall sheathing shall be APA rated, with exterior glue.
2. Plywood sheathing shall be attached to framing members as described below:

Table with 7 columns: Locations, Plywood Thickness (in.), Tongue & Groove, Screw Size, Screw Spacing @ Interior Panel Edges, Screw Spacing @ Interior Support, Screw Spacing @ Diaphragm Boundary, Blocked. Rows include Walls and Roof.

Special Inspector:

- 1. The following items require special inspection in accordance with the building code.
2. The Contractor shall request special inspection of the items listed above prior to those items becoming inaccessible & unobservable due to progression of the work.
3. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection.
4. The Special Inspector shall observe the work assigned for conformance with the approved design drawings and specifications.
5. The Special Inspector shall furnish inspection reports to the Building Official, the Engineer and Architect of record, and other designated persons.
6. The Special Inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workshop provisions of the governing building codes.

Concrete:

- 1. Strength test cylinders shall be prepared for each day's pour of each concrete mix and at a minimum frequency of every 50 cu. yd. on all concrete placed.
2. Four (4) test cylinders are to be made and cured on site for the first 24 hours.
3. Slump, air content and temperature tests shall be conducted at a minimum when strength specimens are made and at any other times as specified by the Engineer.
4. Perform slump tests on a representative concrete sample at the point of discharge.
5. Perform air content tests on all concrete specified to be air-entrained.
6. Perform a temperature test every hour when air temperature is 40°F and below, or when air temperature is 90°F and above.
7. Prior to the closing of forms or the delivery of concrete to the job site, the inspector shall verify that the reinforcing steel is in conformance with the city-approved plans, specifications and shop drawings.
8. The Inspector shall verify that the bolt size, location and embedment length of all anchor bolts are in conformance with the city-approved plans, specifications and shop drawings.
9. Anchor rods 3/4"Ø or smaller may be floated in place using concrete.
10. Test Reporting: Test results must be reported to BSE and the General Contractor in writing within 24 hours after testing, via fax or email.

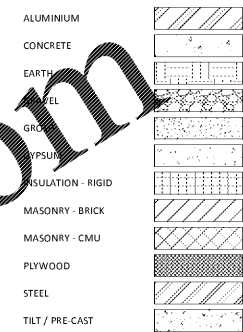
ABBREVIATIONS LIST

- & AND
@ AT
° DEGREES
= EQUALS
' FEET
> GREATER THAN
≥ GREATER THAN OR EQUAL TO
" INCHES
< LESS THAN
≤ LESS THAN OR EQUAL TO
+ PLUS
- MINUS
A.F.F. ABOVE FINISHED FLOOR
ALT. ALTERNATE
ARCH. ARCHITECT
BLDG. BUILDING
BM. BEAM
B.O.S. BOTTOM OF STEEL
BOT. BOTTOM
C.J. CONTROL/CONSTRUCTION JOINT
C.L. CENTER LINE
C.M.U. CONCRETE MASONRY UNIT
CLG. CEILING
CLR. CLEAR
COL. COLUMN
CONC. CONCRETE
CONT. CONTINUOUS
COORD. COORDINATE
CTR. CENTER
DIA. DIAMETER
DN. DOWN
D.W.G. DRAWING
E.J. EJECTION JOINT
E.O.R. ENGINEER OF RECORD
EL. ELEVATION
ENG. ENGINEER
EQ. EQUAL
EQUIP. EQUIPMENT
ETC. ET CETERA
EXIST. EXISTING
EXT. EXTERIOR
F.A. FACE
F.B.E. FOOTING BEARING ELEVATION
F.F.E. FINISHED FLOOR ELEVATION
F.S. FAR SIDE
FT. FOOT/FEET
FTG. FOOTING/FOUNDATION
F.V. FIELD VERIFY
G.C. GENERAL CONTRACTOR
GALV. GALVANIZED
GYF. GYPSUM
HORIZ. HORIZONTAL
IN. INCHES
J.B.E. JOIST BEARING ELEVATION
JT. JOINT
L.F. LINEAR FEET
LB. POUND
L.H. LONG LEG HORIZONTAL
LLV. LONG LEG VERTICAL
M.B.M. METAL BUILDING MANUFACTURER
M.E.P. MECHANICAL ELECTRICAL PLUMBING
MAX. MAXIMUM
MIN. MINIMUM
MISC. MISCELLANEOUS
N.A. NOT APPLICABLE
N.S. NEAR SIDE
N.T.S. NOT TO SCALE
Ø DIAMETER
P.E.M.B. PRE-ENGINEERED METAL BUILDING
PL. PLATE
PSF. POUNDS PER SQUARE FOOT
PSI. POUNDS PER SQUARE INCH
R. RADIUS
REQ. REQUIRED
SF. SQUARE FEET
SIM. SIMILAR
SPA. SPACING
SPEC. SPECIFICATION
SQ. SQUARE
T.O.C. TOP OF CONCRETE
T.O.F. TOP OF FOOTING
T.O.S. TOP OF STEEL
T.O.W. TOP OF WALL
THRU. THROUGH
TYP. TYPICAL
U.N.O. UNLESS NOTED OTHERWISE
VERT. VERTICAL
W.W.F. WELDED WIRE FABRIC
WT. WEIGHT
W/ WITH
W/O WITHOUT

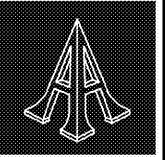
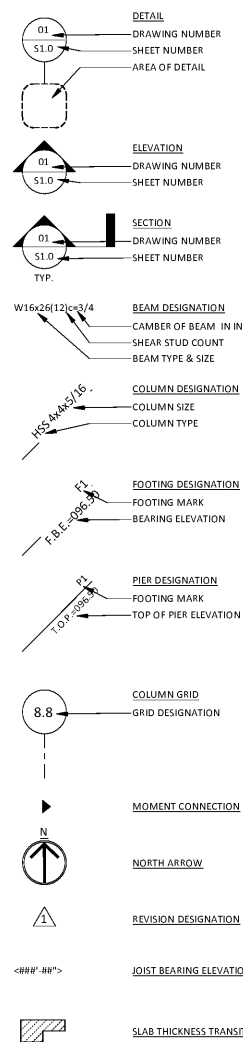
SHEET LIST

Table with 2 columns: Sheet Number, Sheet Name. Rows include 50.0 GENERAL NOTES, 51.1 FOUNDATION PLAN, 51.2 FOUNDATION PLAN, 52.1 ROOF FRAMING PLAN, 52.2 ROOF FRAMING PLAN, 53.1 TYP. FOUND. DETAILS, 54.1 WOOD FRAMING DETAILS.

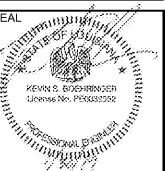
MATERIALS LEGEND



SYMBOLS LEGEND



Pascal Aughtry & Associates, PC
405.463.3434
Fax 405.463.3493
637 East Erdon Road
Oklahoma City, OK 73114
pascal@acch.com



LOVE'S BUILDING ADDITION
STORE No. 243
IOWA, LA



Revisions table with columns No and Date.

Project No.:
Date: 2019-01-30
Sheet No.: GENERAL NOTES

S0.0
11320 West 79th Street
Lenexa, Kansas 66214
Phone 913.492.7400
www.BSEStructural.com
Project Number 18-116