

STRUCTURAL ABBREVIATIONS

Table of structural abbreviations including A.F.F. ADD'L., ANCH., ANCH.B., etc., and their corresponding full names.

DESIGN LOADS

Table of design loads including 1. STRUCTURAL DESIGN CODE, 2. SNOW LOAD, 3. WIND LOADS, 4. GRAVITY LOADS, 5. SEISMIC DESIGN LOADS, etc.

A. GENERAL

- 1. GENERAL: THE BUILDING IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED.
2. SAFETY: IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

- 5. SUBMITTALS: A. SUBMITTALS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
B. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH THE PRINCIPLES AND CONTRACT DOCUMENTS OF THE PROJECT.

- 6. QUALITY REQUIREMENTS: A. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.

B. REINFORCED CONCRETE

- 1. MATERIALS: A. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, LATEST EDITION."

- CLASS I, 3000 PSI COLUMN FOOTINGS AND WALL FOOTINGS

- CLASS II, 3000 PSI INTERIOR SLAB ON GRADE AND INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED

- CLASS III, 4000 PSI WITH AIR WALLS, PIERS, EXTERIOR SLAB ON GRADE AND EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED

- CLASS IV, 4000 PSI NOT USED

- CLASS V, 1500 PSI BACK FILL BELOW FOOTINGS

- C. DEFORMED REINFORCING BARS: FY = 60,000 PSI

- 2. FOOTINGS, BEAMS, PIERS, AND WALLS: A. DONNELS IN GRADE BEAMS AND CAISSONS TO MATCH VERTICAL BARS TO WALL REINFORCING.

- 3. SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP LENGTH SHALL BE AS FOLLOWS: A. HORIZONTAL BARS IN BEAMS AND SLABS 50 BAR DIAMETERS

- 4. CONSTRUCTION JOINTS: A. CONSTRUCTION JOINTS PERMITTED ONLY WHEN SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINTS ARE TO BE KEPT.

- 5. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES

- ADDITIONAL INFORMATION: A. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID.

C. STRUCTURAL STEEL

- 1. MATERIALS: A. STRUCTURAL STEEL: W SHAPES: ASTM A992, FY=50 KSI; HIGH STRENGTH BOLTS: ASTM A325 OR A490; ANCHOR BOLTS: ASTM A307 OR A36

- 2. SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY: A. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (LATEST EDITION).

- 3. CONNECTIONS: A. STEEL BEAM CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE DESIGNED BY THE PROFESSIONAL ENGINEER OF STRUCTURAL STEEL FABRICATOR.

- 4. PAINT: A. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE OR ANY STEEL WHICH WILL BE LOCATED INSIDE THE FINISHED PRODUCT CONCEALED FROM VIEW.

- 5. MISCELLANEOUS: A. PROVIDE HOLES FOR OTHERS, IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

- 6. LINTEL NOTES: 1. PROVIDE LINTELS FOR ALL OPENINGS IN MASONRY WALLS. REFER TO ARCHITECTURAL AND HVAC DRAWINGS FOR LOCATION, NUMBER AND SIZE OF OPENINGS.

D. STEEL JOISTS

- 1. SPECIFICATIONS: A. FABRICATION AND ERECTION TO BE PER SJI REQUIREMENTS. B. MANUFACTURER TO BE A MEMBER OF SJI.

- 2. BRIDGING: A. NUMBER OF ROWS AS THAN REQUIRED BY SJI, UNLESS NOTED OTHERWISE, USE HORIZONTAL BRIDGING FOR K-SERIES (EXCEPT FOR DIAGONAL BRIDGING NEAREST THE MID SPAN WHERE THREE OR MORE ROWS ARE SHOWN OR REQUIRED BY SJI).

- 3. BEARING: A. WELD JOISTS TO SUPPORTING STEEL AS SHOWN ON RELEVANT DETAILS. JOISTS TO BE FIELD BOLTED AT COLUMN LINE OR, IF THERE IS NO JOIST AT A COLUMN LINE, FIELD BOLT THE JOIST NEAREST COLUMN ON EACH SIDE.

- 4. MISCELLANEOUS: A. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF HVAC DUCTS, PIPING, ETC.

F. MASONRY

- 1. MATERIALS: A. CONCRETE BLOCK: ASTM C90 (HOLLOW) ASTM C145 (SOLID). B. MORTAR: ASTM C270 TYPE PER SPEC, MINIMUM COMPRESSIVE STRENGTH: 1800 PSI PROPERTY SPECIFICATIONS.

- 2. REINFORCED MASONRY: WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY: A. PROVIDE DONNELS FROM CONCRETE BELOW, SAME SIZE AND SPACING AS WALL BARS.

- 3. MISCELLANEOUS: A. VERTICAL COLLAR JOINTS TO BE FILLED WITH MORTAR. B. PROVIDE 100% SOLID BEARING, MINIMUM THREE COURSES UNDER BEAMS, ONE COURSE UNDER JOISTS, UNLESS DETAILED OTHERWISE.

- 4. ACCESSORIES: A. GENERAL: PROVIDE ACCESSORY MATERIALS FOR STEEL DECK THAT COMPLY WITH REQUIREMENTS INDICATED AND RECOMMENDATIONS OF THE STEEL DECK MANUFACTURER.

G. LINTEL NOTES

- 1. PROVIDE LINTELS FOR ALL OPENINGS IN MASONRY WALLS. REFER TO ARCHITECTURAL AND HVAC DRAWINGS FOR LOCATION, NUMBER AND SIZE OF OPENINGS.

Table with columns: JOIST OPENING SECTION, JOIST SIZE, LINTEL SIZE. Includes rows for 14 x 8, 15 x 8, 15 x 5.

H. STEEL DECK ATTACHMENT

- 1. REFERENCES: A. AMERICAN IRON AND STEEL INSTITUTE (AISI) - SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS - AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) A611 - STANDARD SPECIFICATION FOR STEEL SHEET, CARBON, COLD-ROLLED, STRUCTURAL QUALITY.

- 2. QUALITY ASSURANCE: A. WELDING PROCEDURES: DEVELOP WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) DOCUMENT PER AWS CODE REQUIREMENTS.

- 3. SUBMITTALS: A. SHOP DRAWINGS TO INCLUDE: 1. WELD AND/OR MECHANICAL FASTENER TYPES SIZES AND PATTERNS. 2. SIDE LAP CONNECTOR TYPES, SIZES AND PATTERNS.

- 4. ACCESSORIES: A. GENERAL: PROVIDE ACCESSORY MATERIALS FOR STEEL DECK THAT COMPLY WITH REQUIREMENTS INDICATED AND RECOMMENDATIONS OF THE STEEL DECK MANUFACTURER.

- 5. ANCHORAGE: A. GENERAL: FASTEN DECK UNITS TO SUPPORTING MEMBERS INCLUDING PERIMETER SUPPORT STEEL AND/OR BEARING WALLS BY EITHER WELDING OR BY MECHANICAL FASTENING, IMMEDIATELY AFTER ALIGNMENT. COMPLY WITH THE REQUIREMENTS OF STEEL DECK INSTITUTE.

QUALITY ASSURANCE PLAN

ALL INSPECTIONS, TESTINGS, AND VERIFICATIONS SHALL BE IN ACCORDANCE WITH IBC'S TABLES 1704.3 AND 1704.4 AND AS OUTLINED IN THE TABLE BELOW. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION BY A CERTIFIED DEPUTY INSPECTOR. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER OR AN AGENT OF THE OWNER BUT NOT BY THE CONTRACTOR OR ANY OTHER PERSON RESPONSIBLE FOR THE WORK.

Table with columns: ITEM, FREQUENCY, CONTINUOUS, PERIODIC. Lists inspection items like 1. SPREAD AND CONTINUOUS FOOTINGS, WALLS AND PIERS, 2. CONCRETE FOOTING PANELS, etc.

Table: CMU WALL REINFORCING SCHEDULE (GROUT ALL CELLS BELOW FLOOR SLAB 100% SOLID). Columns: WALL LOCATION, CMU NOMINAL SIZE, VERTICAL REINFORCEMENT, REMARKS.

NOTES:

- 1. ALL WALLS SHALL HAVE (2) #5 HORIZONTAL BOND BEAMS AT 4'-0" o.c. FOR ENTIRE HEIGHT OF WALL.
2. PROVIDE BOND BEAM AT FINISHED SLAB LEVEL.
3. GROUT SOLID REINFORCED CELLS.
4. GROUT SOLID CELLS AT BEAM, JOIST BEARING, AND BOLTS.



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Pickering Firm, Inc. Architecture - Engineering Planning - Surveying 6775 Lenox Center Court, Suite 300 Memphis, TN 38115

ENGINEER OF RECORD: STRUCTURAL MECHANICAL ELECTRICAL CIVIL ENGINEER

V-SOFT INFRASTRUCTURE 11280 CHESTER ROAD CINCINNATI, OH 45244

telgian TELGIAN CORPORATION 10230 SOUTH 60TH PLACE SUITE 100 PHOENIX, AZ 85044

ISSUE LOG

Table with columns: NO., REV., DESCRIPTION, DATE. Shows revision 1 for PERMIT SET and revision 2 for BID SET.

JOB: 2019041 SCALE: AS SHOWN

SHEET NO.

S0.1 STRUCTURAL NOTES

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