

GENERAL

- A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS.
B. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
C. THE GENERAL CONTRACTOR SHALL COMPILE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION.
D. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
E. THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, AND MECHANICAL PLANS.
F. ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER CONDITIONS OF ANY EXISTING STRUCTURES OR OTHER FEATURES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
G. THE COMPLETED LATERAL FORCE RESISTING SYSTEMS AND DIAPHRAGMS ARE REQUIRED FOR THE STRUCTURE TO RESIST LATERAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS. DURING THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS UNTIL THE LATERAL LOAD RESISTING OR STABILITY PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.
H. UNLESS NOTED OTHERWISE, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
I. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND FOR SAFETY PRECAUTIONS AND PROGRAMS.
J. BRITT, PETERS & ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSION OF THE CONTRACTOR OR FOR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
K. PERIODIC SITE OBSERVATION BY BRITT, PETERS & ASSOCIATES, INC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS AND IS NOT EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
L. THE BUILDING OWNER SHALL PROVIDE PERMITTING AND INSURE STRUCTURAL INTEGRITY. SUCH MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO PAINTING OF STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS.

DESIGN CRITERIA

- A. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE 2015 INTERNATIONAL EXISTING BUILDING CODE.
B. DEAD LOADS
1. TYPICAL FLOOR SYSTEMS: (25 PSF TOTAL)
a. MEP: 10 PSF
b. PARTITIONS AND FINISHES: 15 PSF
2. TYPICAL ROOF SYSTEMS: (10 PSF TOTAL)
a. MEP: 10 PSF
b. INSULATION & ROOFING: 10 PSF
C. LIVE LOADS
1. SEE LIVE LOADS TABLE.
2. LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD LISTED BELOW OR THE CONCENTRATED LOAD LISTED ACTING OVER A 6.25 SQUARE FOOT AREA EXCEPT FOR PARKING GARAGES WHICH ACT OVER AN AREA OF 20 SQUARE INCHES. LIVE LOADS HAVE BEEN REDUCED AS PRESCRIBED IN THE AFOREMENTIONED BUILDING CODE.

Table with columns for Design Wind Speed, Exposure, Risk Category, and Coefficients. Includes values for V, G, Kz, Kzt, Kd, Kf, and GCp.

COMPRESSURE & CLADDING WIND PRESSURES (ULTIMATE): WIDTH OF ZONE, a = 6.7 FT

Table titled 'Ultimate Design Wind Pressure (psf)' showing wind pressure values for various zones and directions.

F. SEISMIC LOADS ASCE 41-17: BUILDING PERFORMANCE LEVEL

Table for seismic hazard parameters including Short Period Spectral Response Acceleration (S1, S2, S3), 1-sec Period Spectral Response Acceleration (S1s, S2s, S3s), and Risk Category (II).

- G. THE CONTRACTOR SHALL SUBMIT FINAL ELEVATOR SHOP DRAWINGS SHOWING ALL LOADS PERMITTED TO THE FABRICATION OF THE SUPPORTING STRUCTURE.
H. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS, INCLUDING ASSOCIATED OPENINGS WITH THE MECHANICAL CONTRACTOR AND SUBMIT SUCH INFORMATION PRIOR TO FABRICATION OF THE SUPPORTING STRUCTURE.
I. PROMPTLY NOTIFY THE ENGINEER IF THE ACTUAL WEIGHT EXCEEDS THE WEIGHT SHOWN ON THE STRUCTURAL DRAWINGS.
J. PROVIDE DETAILS FOR ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR, CEILING, AND LIFT OFF FROM REFLECTION.
K. FLOOD DESIGN HAZARD ANALYSIS (FEMA 450/450C/450S)
L. FLOOD HAZARD ANALYSIS (FEMA 450/450C/450S)

LIFE SAFETY BSE-IE S1 0.250g S2 0.040g S3 0.477g S1s 0 S2s 0 S3s 0 Risk Category II

A

FOUNDATIONS

- A. AN ALLOWABLE BEARING CAPACITY OF 2000 PSF HAS BEEN ASSUMED AND SHALL BE CONFIRMED BY A QUALIFIED SOILS ENGINEER TO INSTALL THE FOUNDATION SOILS.
B. CONTRACTOR SHALL OBTAIN A COPY OF THE SOILS REPORT AND ADHERE TO ALL RECOMMENDATIONS WITHIN, INCLUDING PREPARATION OF SOILS AT BUILDING PAD.
C. ALL SOILS INCLUDING UTILITY TRENCHES AND THE VERIFICATION OF BEARING CAPACITY OF SAME SHALL BE UNDER THE DIRECTION OF A QUALIFIED SOILS ENGINEER. PROXIMITY OF UTILITY TRENCHES TO BUILDING FOUNDATION SYSTEM SHALL BE AS APPROVED BY THE SOILS ENGINEER TO ENSURE INTEGRITY OF THE BEARING SOILS.
D. ALL FOOTINGS SHALL BE CONSTRUCTED TO THE ELEVATIONS SHOWN ON PLANS AND DETAILS GO TO COORDINATE FINAL TOP OF FOOTING ELEVATIONS WITH THE ARCHITECTURAL ELEVATIONS, MEP DRAWINGS AND CIVIL GRADING PLANS PRIOR TO PLACEMENT. FOOTING SETS DENOTED ON PLAN ARE APPROXIMATE, UNLESS NOTED OTHERWISE, AND SHALL BE FIELD COORDINATED.
E. FLOOR SLABS SHALL BEAR ON 4 INCHES OF COMPACTED STONE MINIMUM UNLESS OTHERWISE NOTED IN THE GEOTECHNICAL REPORTER SHALL BE PLACED BETWEEN THE STONE AND THE SLAB.
F. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ALL CONFLICTS THAT EXIST BETWEEN FOOTINGS AND UNDERGROUND UTILITIES.
G. ALL FOUNDATIONS OR PORTIONS THEREOF BELOW GRADE MAY BE EARTH FORMED BY NEAT EXCAVATIONS, UNLESS NOTED OTHERWISE. ALL FOOTINGS SHALL BE CENTERED ON WALLS AND/OR COLUMNS.
H. THE CONTRACTOR SHALL VERIFY THE EXISTING CONSTRUCTION DEWATERING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DEWATERING PRIOR TO EXCAVATION.
I. FOOTINGS SHALL NOT BE PLACED ON FROZEN SUBGRADE OR IN STANDING WATER.

CONCRETE

- A. CONCRETE SHALL CONFORM TO THE CONCRETE PROPERTIES SPECIFIED IN THE CONCRETE PROPERTIES TABLE.
B. ALL CONCRETE SHALL HAVE ALLOWABLE UNIT SHRINKAGE OF 0.045% AT 28 DAYS (SEE ASTM C157) 0.03% CAN BE ACHIEVED WITH ADMIXTURES AND SHOULD BE CONSIDERED FOR FLOOR SLABS AND OTHER SPECIFIC USES.
C. ALL SLABS TO RECEIVE MOISTURE SENSITIVE FLOOR COVERINGS SHALL HAVE MAXIMUM WATER/CEMENT RATIO OF 0.45.
D. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT 'ACI MANUAL OF CONCRETE PRACTICE'.
E. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
F. ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
G. ALL REINFORCEMENT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
1. ALL REINFORCING, UNO:
a. DEFORMED BAR ANCHORS (DBA): ASTM A496 (75 KSI)
b. EPOXY-COATED REINFORCING: ASTM A775
c. GALVANIZED REINFORCING: ASTM A775 CLASS II (2.0 OZ ZINC PFS)
d. WELDED REINFORCING: ASTM A706
2. WELDED WIRE REINFORCEMENT (WWR):
a. SMOOTH WIRE: ASTM A 185 (65 KSI)
b. DEFORMED WIRE: ASTM A 497 (70 KSI)
c. POLYPROPYLENE FIBRILATED FIBER MAY BE USED TO SUBSTITUTE WWR IN SLABS ON GRADE, WHEN ADDED TO CONCRETE MIX ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDED DOSAGES.
d. A STEEL AND POLYPROPYLENE FIBER BLEND MAY BE USED TO SUBSTITUTE WWR IN SLABS ON COMPOSITE DECK, WHEN ADDED TO CONCRETE MIX IN ACCORDANCE TO THE STEEL DECK INSTITUTE DESIGN MANUAL PUBLICATION NUMBER 30-ANSI/DIC. 10 SPECIFICATION FOR COMPOSITE STEEL DECK, SECTION 6.5 (STEEL FIBERS SHALL PROVIDE 80 PSI OF COMPRESSION STRENGTH IN ACCORDANCE WITH ASTM C 1539).

REINFORCEMENT DETAILING

- 1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318.
2. DEVELOPMENT AND SPICE LENGTHS ARE IN TENSION UNLESS OTHERWISE INDICATED AND SHALL BE AS TABULATED IN THE 'REINFORCEMENT SPICE LENGTH TABLE'.
3. PER AND COLUMN VERTICAL BARS ARE IN COMPRESSION UNLESS OTHERWISE INDICATED AS TENSION-CONTROLLED.
a. COMPRESSION EMBEDMENT: 2X BAR DIAMETER (28 BAR DIAMETERS, GRADE 75);
b. COMPRESSION EMBEDMENT: 4X BAR DIAMETER (44 BAR DIAMETERS, GRADE 75);
4. LAP WWR ONE CROSSWIRE SPACING PLUS 2".
5. PROVIDE CORNER BARS AT ALL FOOTINGS AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING SIZE AND SPACING. AT INTERSECTIONS OF CONTINUING FOOTINGS EXTEND ALL BARS TO FAR SIDE OF INTERSECTING FOOTING.
6. REINFORCEMENT SHALL BE SECURELY PLACED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING (ACI 318 SECTION 7.7 AND IBC TABLE 720.1) UNLESS SPECIFICALLY NOTED OTHERWISE:
a. CAST AGAINST EARTH: #6 THRU #18 3"
b. EXPOSED TO EARTH/WEATHER: #6 & SMALLER 2"
c. EXPOSED TO EARTH/WEATHER: #6 & SMALLER 1 1/2"
d. SLABS, WALLS, JOISTS: #14 & #18 1 1/2"
e. SLABS, WALLS, JOISTS: #11 & SMALLER 3/4"
f. BEAMS, COLUMNS: #6 & LARGER 1 1/2"
g. SHELLS FOLDED PLATE MEMBERS: #6 & LARGER 1 1/2"
h. SHELLS FOLDED PLATE MEMBERS: #6 & SMALLER 3/4"
7. PROVIDE BOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS NOTED OTHERWISE.

- I. FOUNDATION WALLS, GRADE BEAMS AND FOOTINGS SHALL BE CAST IN ALTERNATE PANELS NOT TO EXCEED 60' 0" IN LENGTH. SHEAR KEYS SHALL BE PROVIDED AT EACH CONSTRUCTION JOINT AND SHALL BE LOCATED AT 1/3 POINT SPANS.
J. CONCRETE WALLS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND OTHER FORCES UNTIL CURE FOR SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTH.
K. PROVIDE CONTROL JOINTS IN CONCRETE CANTILEVERED RETAINING WALLS AT EQUAL INTERVALS NOT TO EXCEED 25' 0".
L. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT.

- M. CHAMFER ALL PERMANENTLY EXPOSED CONCRETE EDGES 3/4" MIN UNLESS NOTED OTHERWISE.
N. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SPACINGS IN CONCRETE BEAMS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AND SLEEVES SHALL BE USED TO STRENGTHEN ALL ADDITIONAL REINFORCEMENT. SEE TYPICAL REINFORCEMENT DETAILS FOR OPENINGS IN SLABS AND WALLS.
O. NO HOLES OR OPENINGS THROUGH FOUNDATION WALLS AND DIAPHRAGMS WITHOUT ENGINEER'S APPROVAL. ALUMINUM SHALL NOT BE EMBEDDED IN ANY CONCRETE.

CONCRETE PROPERTIES TABLE NOTES

- 1. STRENGTH (PSI) DENOTES 28-DAY COMPRESSIVE STRENGTH AND DESIGN REQUIREMENTS.
2. NW1 = NORMAL WEIGHT CONCRETE.
3. LW1 = SAND-LIGHTWEIGHT CONCRETE (120 PCF MAX).
4. SAND-LIGHTWEIGHT CONCRETE USED FOR COMPOSITE DECK JOISTS SHALL HAVE 4 TO 7% AIR ENTRAINMENT.
5. DURABILITY CLASSIFICATION DENOTES 'ACI 318-14' EXPOSURE CLASS. REFER TO TABLE 19.3.2.1 OF ACI 318-14.

STRUCTURAL STEEL

- A. ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION AND SHALL BE FIELD COORDINATED.
B. STRUCTURAL STEEL SHALL BE FOLLOWING UNLESS NOTED OTHERWISE:
1. WIDE FLANGE SHAPES ASTM A992
2. STEEL PIPE ASTM A513
3. STRUCTURAL RECTANGULAR TUBING ASTM A500 GRADE B
4. STRUCTURAL ROUND PIPE ASTM A500 GRADE B
5. ALL OTHER STRUCTURAL STEEL ASTM A36
6. SAG RODS ASTM A36

CONNECTION MATERIALS

- A. ALL COLUMN STIFFENER PLATES AND DOUBLER PLATES: ASTM A572 GRADE 50
B. ALL WELDER CONNECTION MATERIAL, UNO: ASTM A58 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY THE DESIGN AND PROVIDED. THE RESULTING SIZES ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
C. ALL 1/2" GRADE 50 IS ACCEPTABLE AS A SUBSTITUTE FOR A992
D. STRUCTURAL STEEL SHALL MEET THE LATEST AISC 'SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING'.

- D. THE CENTER LINES OF ALL COLUMNS AND BEAMS SHALL BE LOCATED ON COLUMN LINES UNLESS OTHERWISE SHOWN. CONNECTIONS:
1. BOLTS SHALL BE A325N TYPE 1, UNLESS NOTED OTHERWISE.
2. ALL BOLTS SHALL BE SNUG TIGHT, UNLESS NOTED OTHERWISE. BOLTS SHALL BE TIGHTENED UNTIL ALL PILES OF THE JOINT ARE IN FIRM CONTACT.
3. BOLTS THAT ARE DESIGNATED AS SLP-CRITICAL SHALL BE FULLY TENSIONED TO THE MINIMUM LOADS AS INDICATED IN THE 'SPECIFICATION OF STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS'.
4. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE.
5. THREADED RODS SHALL CONFORM TO ASTM A36.
6. BOLTED MOMENT CONNECTIONS SHALL BE SLP-CRITICAL CONNECTIONS. OTHER CONNECTIONS SHALL BE BEARING CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANES.
7. WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION, 'WELDING IN BUILDING CONSTRUCTION'.
8. UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX (SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), OR E7XX-X (FCAW). WEATHERING STEEL ELECTRODES SHALL CONFORM TO THE ANSIAWS D1.1 MANUAL. ELECTRODES FOR GRADE 60 OR GRADE 65 MATERIAL SHALL CONFORM TO E80XX (SMAW), F80X-EXXX (SAW), ER80S-X (GMAW), OR E8XX-X (FCAW).
9. WELDS INDICATED 'C-P' SHALL BE COMPLETE JOINT PENETRATION GROOVE WELDS. FABRICATOR SHALL PRODUCE COMPLETE JOINT PENETRATION GROOVE WELDS WHICH CONFORM TO AWS D1.1 QUALIFIED WELD REQUIREMENTS AND WHICH ARE APPLICABLE TO THE SPECIFIC CONDITIONS SHOWN.
10. ALL ERECTION DRAWINGS SHALL SHOW THE FOLLOWING:
a. ALL WELDS TO BE WELDED.
b. ALL STEEL BEAMS BEARING ON MASONRY TO HAVE MINIMUM OF 8" BEARING LENGTH.
11. CONNECTION DETAILS NOT COMPLETELY DETAILED ON THE DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER TO RESIST THE INDICATED FORCES BASED ON FACTORED LOADS AND ARE INTENDED FOR USE WITH THE LOAD AND RESISTANCE FACTOR DESIGN METHOD, WHERE NONE ARE INDICATED. BEAMS SHALL BE DESIGNED FOR AN END REACTION EQUAL TO 1/2 OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE UNIFORM LOAD TABLES OF THE AISC MANUAL. THE CONTRACTOR SHALL EMPLOY THE ASSISTANCE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE SPECIALTY ENGINEER SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCORRECTED AS AN INCOMPLETE SUBMITTAL. CONNECTIONS ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.

- F. WHERE THE WORK OF OTHER TRADES REQUIRES CUTS, HOLES, ETC. IN STRUCTURAL STEEL MEMBERS, CUTS, HOLES, ETC., SHALL BE MADE BY THE SHOP AND SHALL BE SHOWN ON THE SHOP DRAWINGS. MAKING HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED WITHOUT SPECIFIC APPROVAL OF THE ENGINEER.
G. ALL MEMBERS MARKED 'WSS' SHALL MEET THE REQUIREMENTS OF AISC 305-16 FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL LEVEL 1 UNLESS NOTED OTHERWISE.
H. BAR GRATINGS SHALL BE STEEL 1 1/2" x 3/16" GALVANIZED GRATING. GRATINGS SHALL BE CLAMPED TO SUPPORT BEAMS WITH GALVANIZED CLAMPS THAT DO NOT REQUIRE DRILLING OF BEAMS. EDGES AND OPENINGS IN GRATINGS MORE THAN 4" IN DIAMETER SHALL BE BANGED.
I. GROUT BELOW BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH A MINIMUM STRENGTH OF 6000 PSI WHEN BEARING ON 3000 PSI CONCRETE OR LESS. STRENGTH OF 8000 PSI WHEN BEARING ON CONCRETE BETWEEN 3000 AND 4000 PSI.
J. ALL STRUCTURAL STEEL SHALL BE SHIPPED WITH ONE COAT OF SHOP PRIMER EXCEPT THOSE MEMBERS THAT ARE GALVANIZED OR IN AREAS SCHEDULED TO RECEIVE FIRE PROOFING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AREAS TO BE FIRE PROOFED.

METAL STUD FRAMING

- A. DESIGN OF COLD-FORMED FRAMING MEMBERS AND CONNECTIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOW SIZE AND GAUGE OF MEMBERS AND ALL CONNECTIONS IN SHOP DRAWINGS AND SUBMIT WITH SUPPORTING CALCULATIONS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE PROJECT STATE.
B. DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO AISI 'SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS' LATEST EDITION. ALL METAL STUDS SHALL BE GALVANIZED.
C. ALL 33 ML AND 43 ML STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI 'SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS' WITH A MINIMUM YIELD OF 53 KSI (U) OR 44.5 ML AND THICKER MEMBERS SHALL HAVE A MINIMUM YIELD OF 50 KSI.
D. ALL MATERIAL AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING MEETING ASTM A 797.
E. UNLESS NOTED OTHERWISE, ALL SCREWS OR PINS SHALL BE NON-CORROSIVE NO. 8-18 (D= .125") OR LARGER. DO NOT USE STAINLESS STEEL OR COPPER-COATED FASTENERS E-912, E-913, OR E-104 FOR WELDING STEEL STUDS. WELDING SHALL BE PERFORMED OTHERWISE. TRACKS SHALL BE THE SAME DEPTH AS STUDS OR JOISTS AND OF EQUAL OR THICKER GAUGE THAN STUDS OR JOISTS. TRACKS SHALL BE CONNECTED TO SUPPORT AT 16" O.C. MAX. STUDS OR JOISTS SHALL BE CONNECTED TO TRACKS AT EACH END.
F. UNLESS NOTED OTHERWISE, TRACKS SHALL BE CONNECTED TO SUPPORT AT 16" O.C. MAX. STUDS OR JOISTS SHALL BE CONNECTED TO TRACKS AT EACH END.
G. THE QUANTITY OF STUDS AND JOISTS DISPLACED OR CUT FOR OPENING SHALL BE PLACED HALF ON EACH SIDE OF OPENING PER METAL STUD HEADER SCHEDULE ON THIS SHEET.
H. INSTALLATION OF CURTAIN WALL FRAMING SHALL ACCOMMODATE VERTICAL DISPLACEMENT OF THE PRIMARY STRUCTURE. I. THE DESIGN OF SLP TRACKS SHALL CONFORM TO GUIDELINES ESTABLISHED IN SSMA TECHNICAL NOTE NO. 1 PUBLISHED JAN. 2001.
J. PROVIDE THE MANUFACTURER'S STANDARD TRACK, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED AND AS NEEDED TO PROVIDE A COMPLETE FRAMING SYSTEM UNLESS OTHERWISE NOTED. INSTALL THE FRAMING SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
K. ALL EXTERIOR METAL WALL STUDS FOR THE TYPICAL WALL CONDITIONS SHALL BE 6" - 18 GAUGE STUDS SPACED @ 16" ON CENTER. MINIMUM SECTION PROPERTIES FOR STUDS SHALL BE:
1. I = 2.316 IN.
2. S = 0.77 IN.
3. FY = 33 KSI
L. ALL METAL WALL STUDS AT THE CEILING SHALL BE 4" - 16 GAUGE STUDS SPACED @ 16" ON CENTER. MINIMUM SECTION PROPERTIES FOR STUDS SHALL BE:
1. I = 1.098 IN.
2. S = 0.55 IN.
3. FY = 43 KSI
M. WALL SHEATHING SHALL BE FASTENED TO SUPPORTING FRAMING WITH NO. 10, FLAT-HEAD SELF-DRILLING TAPPING SCREWS WITH A MINIMUM HEAD DIAMETER OF 0.333 INCHES AT THE SPACING INDICATED BELOW UNLESS NOTED OTHERWISE IN THE SHOP DRAWING SCHEDULE:
1. WALL EDGE 6"OC
2. SUPPORTING PANEL EDGES AWAY FROM EDGE OF WALL 6"OC
3. CENTER OF PANELS 12"OC
N. PREPUNCHED HOLES SHALL NOT BE LOCATED WITHIN 10 INCHES OF THE STUD SUPPORT LOCATIONS.
O. USE FLUX CORED OR COPPER-COATED FASTENERS E-912, E-913, OR E-104 FOR WELDING STEEL STUDS. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS PROCEDURES. CONSULT MANUFACTURER'S TECHNICAL RECOMMENDATIONS AND PROPER ELECTRODE SELECTION. TOUCH UP WELDED AREAS WITH FIRE RESISTANT PAINT.

DEMOLITION

- A. REMOVE STRUCTURE FROM TOP DOWN. DO NOT ALLOW DEBRIS TO PILE UP. REMOVE ALL MATERIAL WHICH IS TO REMAIN IN PLACE. PROVIDE PLYWOOD OR OTHER PLANKING TO CUSHION AND PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS, BEAMS, OR GIRDERS AS DIRECTED BY ENGINEER.
B. THESE DRAWINGS AND ALL STRUCTURAL REQUIREMENTS AND PRECAUTIONS TO BE TAKEN TO PREVENT DAMAGE TO STRUCTURE WHICH WILL REMAIN. THE GUIDELINES SET FORTH ARE TO BE FOLLOWED IN THE REMOVAL OF STEEL MEMBERS:
1. IN ORDER TO PREVENT DAMAGE TO MEMBERS WHICH ARE MOVING ANY BEAMS OR GIRDERS CONNECTED TO A COLUMN WHICH IS TO REMAIN, DO NOT BURN OR CONNECT TO COLUMN AT THE FACE OF COLUMN FLANGE OR WEB. OUTSTANDING LEGS OF CONNECTION ANGLES MAY BE BURNED OFF IF ANY LEG OR PLATE IN CONTACT WITH THE COLUMN (WELDED CONNECTIONS SHALL BE BURNED). REMOVAL SHALL BE LEFT IN PLACE, AND WILL BE COVERED BY THE PROOFING MATERIAL.
2. SIMILARLY, THE BEAMS WHICH ARE TO BE REMOVED, ARE CONNECTED TO GIRDERS OR OTHER BEAMS WHICH WILL REMAIN, DO NOT BURN OR CONNECT AT THE FACE OF THE MEMBER WHICH WILL REMAIN.
3. BOLTED CONNECTIONS MAY BE REMOVED BY CUTTING AWAY BOLTS AFTER SUPPORTED MEMBERS HAVE BEEN REMOVED.
ANY QUESTIONS OR LOCATIONS OF SPECIAL CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION.
C. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND SUBMIT A WRITTEN REPORT TO THE ENGINEER FOR REVIEW OR INSTRUCTION OF ANY SPECIAL FIELD CONDITIONS, WHICH MAY VARY FROM INFORMATION, INDICATED ON DRAWINGS.
D. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING OF STRUCTURE AS REQUIRED.
E. THE ARCHITECT AND ENGINEER'S SHORING, BRACING AND OTHER CONSTRUCTION REQUIRED FOR SUCH WORK AND THE PHASE STAGING AND SEQUENCE OF SUCH OPERATION SHALL BE PREPARED IN THE FORM OF SHOP OR DETAIL DRAWINGS PROVIDED TO THE REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER RESPONSIBLE FOR THE INSPECTION OF SUCH WORK. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DEVIATIONS OBSERVED DURING HIS INSPECTION.

SUBMITTALS

- A. THE GENERAL CONTRACTORS SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER AND HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS.
B. A RECORD SET OF APPROVED SHOP DRAWINGS SHALL BE KEPT IN THE FIELD BY THE GENERAL CONTRACTOR.
C. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE 'AS-WRITTEN' UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
D. THE CONTRACTOR SHALL PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
E. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW:
1. STRUCTURAL STEEL SHOP AND ERECTION DRAWINGS (1, 3)
2. CONCRETE MIX DESIGNS
3. LIGHT GAUGE METAL (1, 3) USED TO SUPPORT EXTERIOR CLADDING OR AS LOAD BEARING MEMBERS
F. ITEMS MARKED (1) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (2) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. ITEMS MARKED (3) SHALL HAVE DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
G. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
H. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

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BRITT, PETERS & ASSOCIATES, INC. ARCHITECTURE

1500 RIVERS AVE., N. CHARLESTON, SC 29405

PH: 803.722.3333 FAX: 803.722.3333 WWW.BPANDASSOCIATES.COM