GENERAL

A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY STRUCTURAL DRAWINGS OR SPECIFICATIONS.

B. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.

C. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2015 EDITION. ALL REFERENCED STANDARDS SHALL BE OF THE EFFECTIVE DATE NOTED IN THE CONTROLLING BUILDING CODE.

D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONSTRUCTION DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF CONTRACTING OFFICER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONSTRUCTION DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS.

E. CONSTRUCTION DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE GENERAL CONTRACTOR.

F. CONSTRUCTION DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONSTRUCTION DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

G. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY CONTRACTING OFFICER REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

H. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE CONTRACTING OFFICER REPRESENTATIVE FOR DIMENSIONS NOT PROVIDED.

I. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.

J. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC EXCEPT AS SHOWN ON THE DRAWINGS.

K. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF, AND WALL PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE CONTRACTING OFFICER REPRESENTATIVE UNLESS NOTED OTHERWISE.

L. THE GENERAL CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, GOVERNMENT-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.

M. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS UNLESS NOTED OTHERWISE.

N. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS.

O. THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.

P. THE STRUCTURAL ENGINEER OF RECORD HAS DELEGATED THE DESIGN OF PRECAST CONCRETE, GLAZING SYSTEMS, COLD FORMED METAL FRAMING, RAILING, SKYLIGHTS, AND STAIRS, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

Q. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTING OFFICER REPRESENTATIVE (CONTRACTOR SHALL COORDINATE WITH CONTRACTING OFFICER REPRESENTATIVE TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO CONTRACTING OFFICER REPRESENTATIVE WITH CONSTRUCTION COSTS).

EXISTING CONDITIONS

A. THE GENERAL CONTRACTOR SHALL SURVEY THE EXISTING STRUCTURE TO DETERMINE THAT ALL MODIFICATIONS AS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE FEASIBLE AND PRACTICAL AND SHALL REPORT ANY DISCREPANCIES OR UNUSUAL CONDITIONS TO THE CONTRACTING OFFICER REPRESENTATIVE.

B. WHEN EXISTING FRAMING IS SHOWN ON THE STRUCTURAL DRAWINGS IT IS FOR REFERENCE ONLY AS IT RELATES TO THE STRUCTURAL SCOPE OF WORK. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE A COMPREHENSIVE REPRESENTATION OF THE AS-BUILT EXISTING STRUCTURE.

C. WHERE PORTIONS OF THE NEW CONSTRUCTION ARE INDICATED TO FIT TO EXISTING CONSTRUCTION, THE GENERAL SHALL VERIFY DIMENSIONS OF EXISTING CONSTRUCTION BY FIELD MEASUREMENTS BEFORE SUBMISSION OF SHOP DRAWINGS AND FABRICATION.

D. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY OR OTHERWISE INTERFERE WITH INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATION OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD TO DAMAGE TO THE NEW WORK (SUCH AS DIFFERENTIAL SETTLEMENT, ETC.).

SPECIAL INSPECTIONS

A. SPECIAL INSPECTIONS ARE REQUIRED IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE BUILDING CODE.

B. ALL SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH DIVISION 01 SPECIFICATIONS.

SHOP DRAWINGS

A. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

B. THE GENERAL CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OR ELECTRONIC COPIES AS DIRECTED, OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO CONTRACTING OFFICER REPRESENTATIVE FOR REVIEW.

C. REVIEW OF SHOP DRAWINGS BY THE CONTRACTING OFFICER OR CONTRACTING OFFICERS REPRESENTATIVE DOES NOT RELIEVE THE GENERAL CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.

D. SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN ITEMS AS DICTATED BY THE CONSTRUCTION DOCUMENTS SHALL BE SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED BEFORE SUBMITTING FOR REVIEW BY THE CONTRACTING OFFICER REPRESENTATIVE.

E. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO PRECAST CONCRETE, GLAZING SYSTEMS, COLD FORMED METAL FRAMING, RAILING, SKYLIGHTS, AND STAIRS SHALL BE SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

F. REPRODUCTION/DUPLICATION OF THE STRUCTURAL DRAWINGS FOR USE IN THE PRODUCTION OF SHOP DRAWINGS IS PROHIBITED UNLESS NOTED OTHERWISE. IN THE EVENT THAT THE GENERAL CONTRACTOR OR SUBCONTRACTOR ELECTS TO PRODUCE SHOP DRAWINGS BY COPYING ELECTRONIC OR PAPER COPIES OF THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REQUEST FROM THE CONTRACTING OFFICER REPRESENTATIVE A SHOP DRAWING WAIVER ALONG WITH THE SPECIFIC SHEETS REQUIRED. SIGNATURE OF THE WAIVER BY THE GENERAL CONTRACTOR WILL BE REQUIRED. THE GENERAL CONTRACTOR SHALL CONTINUE TO ASSUME RESPONSIBILITY FOR ERRORS, OMISSIONS AND COORDINATION REQUIRED FOR SHOP DRAWING PRODUCTION, REGARDLESS OF THE USE OF COPIES OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING PRODUCTION.

DESIGN LOADS

A. DESIGN ROOF DEAD LOAD:
   1. 20 PSF
B. DESIGN ROOF LIVE LOAD:
   1. 20 PSF
   2. REDUCTIONS APPLIED PER TRIBUTARY AREA AS PERMITTED BY CODE
C. DESIGN WIND LOAD:
   1. ULTIMATE DESIGN WIND SPEED, Vult = 60 MPH
   2. NOMINAL DESIGN WIND SPEED, Vasd = 46 MPH
   3. RISK CATEGORY: II
   4. WIND EXPOSURE CATEGORY: C
   5. COMPONENTS AND CLADDING WIND PRESSURE: (SEE SCHEDULE)
   6. INTERNAL PRESSURE COEFFICIENT (GCpi): +/- 0.18
D. DESIGN SEISMIC INFORMATION:
   1. RISK CATEGORY: II
   2. MAPPED SPECTRAL RESPONSE COEFFICIENT, Ss = 0.204
   3. MAPPED SPECTRAL RESPONSE COEFFICIENT, S1 = 0.093
   4. SPECTRAL RESPONSE COEFFICIENT, Sds = 0.218
   5. SPECTRAL RESPONSE COEFFICIENT, Sd1 = 0.150
   6. SITE CLASS: D (ASSUMED)
   7. BASE SEISMIC-FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
   8. DESIGN BASE SHEAR: 27.7 K
   9. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ASCE 7, SECTION 12.8)
   10. RESPONSE MODIFICATION FACTOR, R: 3.0
   11. SEISMIC DESIGN CATEGORY: C
   12. SEISMIC IMPORTANCE FACTOR, Ie = 1.00
   13. SEISMIC RESPONSE COEFFICIENT, Cs = 0.073
E. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

WELDING

A. MINIMUM WELD SIZE SHALL BE 3/16" FILLET WELD UNLESS NOTED OTHERWISE.

B. FIELD WELDING SHALL BE SHOWN ON SHOP DRAWINGS AND ERECTION DRAWINGS.

C. REFER TO ARCHITECTURAL DOCUMENTS FOR EXPOSED STEEL AND JOINT LOCATIONS AND REQUIREMENTS. ALL EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND SUBJECT TO CONTRACTING OFFICER REPRESENTATIVE APPROVAL. FABRICATOR SHALL ALTER JOINT DETAILING AS REQUIRED TO ENSURE THAT EFFECTIVE THROAT SPECIFIED IN WELD DETAIL IS MAINTAINED AFTER GRINDING OF WELD SURFACE.

D. WELDS INDICATED IN STRUCTURAL DETAILS ARE INTENDED AS THE BASIS OF DESIGN. FABRICATOR AND ERECTOR HAVE THE OPTION TO PROPOSE THE USE OF ALTERNATIVE WELDING PROCEDURES. ALTERNATIVE WELDS SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW BY THE CONTRACTING OFFICER REPRESENTATIVE.

E. REINFORCING STEEL WELDING SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL BY AMERICAN WELDING SOCIETY FOR COMPLIANCE WITH ACI 318, SECTION 3.5.2.

STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. SLOTTED HOLES FOR BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ASSOCIATED WITH A BRACED FRAME OR MOMENT FRAME, OR NOTED WITH A REQUIRED AXIAL CONNECTION FORCE, UNLESS NOTED OTHERWISE.

C. GUSSET PLATES AND STIFFENER PLATES SHALL BE 3/8" MINIMUM, WELDED BOTH SIDES CONTINUOUSLY, UNLESS NOTED OTHERWISE.

D. MEMBERS SUPPORTING DECK AT THE PERIMETER OF THE BUILDING SHALL BE CONTINUOUS EXCEPT AT EXPANSION JOINTS. SQUARE GROOVE WELD (BUTT JOINT) CONTINUOUS MEMBERS PLACED END TO END UNLESS NOTED OTHERWISE.

E. STEEL COLUMNS AND BASE PLATES SHALL HAVE MINIMUM 3" CONCRETE COVER PROTECTION.

F. POWDER ACTUATED FASTENERS (OR POWDER DRIVEN FASTENERS) SHALL BE ANCHORED IN STEEL WITH MINIMUM FASTENER SPACING OF 1 1/2" AND MINIMUM EDGE DISTANCE OF 1/2".

G. GROUT UNDER BEARING PLATES SHALL BE MIN. 6,000 PSI COMPRESSIVE STRENGTH. LOADING OF STRUCTURE SHALL NOT OCCUR UNTIL GROUT IS INSTALLED UNDER BASE PLATES AND PROPERLY CURED.

H. MATERIALS:
   1. W-SHAPES: ASTM A 992.
   2. CHANNELS, ANGLES, M, S-SHAPES: ASTM A 36.
   3. PLATE AND BAR: ASTM A 36.
   4. COLD-FORMED HOLLOW STRUCTURAL SECTIONS: ASTM A 500, GRADE C, STRUCTURAL TUBING.
   5. STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B.
   6. HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: ASTM A 325, TYPE 1 OR ASTM A 490 TYPE 1 HEAVY HEX STEEL STRUCTURAL BOLTS ASTM A 563, GRADE DH, HEAVY HEX CARBON-STEEL NUTS; AND ASTM F 436, TYPE 1, HARDENED CARBON-STEEL WASHERS WITH PLAIN FINISH.
   7. SHEAR CONNECTORS: ASTM A 108, GRADES 1010 THROUGH 1020 HEADED-STUD TYPE, COLD-FINISHED CARBON STEEL; AWS D1.1, TYPE B.
   8. UNHEADED ANCHOR RODS: ASTM F 1554, GRADE 36. CONFIGURATION TO BE STRAIGHT.
   9. PLATE WASHERS: ASTM A 36 CARBON STEEL.
   10. WASHERS: ASTM F 436, TYPE 1, HARDENED CARBON STEEL.
   11. THREADED RODS: ASTM A 36.
   12. NONMETALLIC SHRINKAGE-RESISTANT GROUT: ASTM C 1107, FACTORY-PACKAGED, NONMETALLIC AGGREGATE GROUT, NONCORROSIVE AND NONSTAINING, MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME.

I. CONNECTIONS: PROVIDE DETAILS OF CONNECTIONS REQUIRED BY THE CONSTRUCTION DOCUMENTS TO BE SELECTED OR COMPLETED BY STRUCTURAL-STEEL FABRICATOR, INCLUDING COMPREHENSIVE ENGINEERING DESIGN BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO WITHSTAND LOADS INDICATED AND COMPLY WITH OTHER INFORMATION AND RESTRICTIONS INDICATED.
   1. STEEL DETAILER SHALL SELECT OR COMPLETE STANDARD CONNECTIONS USING SCHEMATIC DETAILS AND LOADS INDICATED IN CONSTRUCTION DRAWINGS AS PER "OPTION 2" OF AISC 303.
   2. USE ASD; DATA ARE GIVEN AT SERVICE-LOAD LEVEL.
   3. WHERE BEAM SHEAR IS NOT NOTED, THE CONNECTIONS SHALL DEVELOP THE BEAM SHEAR V = W/2 WHERE W IS THE TOTAL ALLOWABLE BEAM UNIFORM LOAD BASED ON LATERALLY SUPPORTED SIMPLE SPAN MOMENTS PER TABLES LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION.
   4. CONNECTIONS SHALL BE DESIGNED AS SNUG-TIGHT CONNECTIONS WITH THREADS IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. ALL BOLTS NOTED AS PRE-TENSIONED OR SLIP CRITICAL IN THE DRAWINGS SHALL BE TIGHTENED TO THE MINIMUM PRETENSION VALUE SHOWN IN TABLE J3.1 OF THE AISC STEEL MANUAL, USING COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATOR DEVICES CONFORMING TO ASTM F959 OR TENSION-CONTROL, HIGH STRENGTH BOLT-NUT-WASHER ASSEMBLIES CONFORMING TO ASTM 1852.

OPEN-WEB STEEL JOISTS

A. ALL STRUCTURAL STEEL JOIST AND JOIST GIRDER WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES OR OTHER SPECIFICALLY LOCATED FRAMING MEMBERS UNLESS NOTED OTHERWISE.

C. STAGGER CONNECTION FOR BEARING NOTE.

D. EXTEND LOWER JOIST CHORD AT ALL COLUMNS. DO NOT WELD TO STEEL TAB PLATE.

E. UNLESS NOTED OTHERWISE, K-SERIES STEEL JOIST SHALL HAVE 2 1/2" DEEP BEARING, LH-SERIES SHALL HAVE 5" DEEP BEARING.
   1. WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FT., PROVIDE SLOPED BEARING AS NOTED IN SLOPED SEAT REQUIREMENTS OF SJI.

F. HORIZONTAL BRIDGING SHALL BE PER SJI REQUIREMENTS.
   1. BRIDGING SHALL BE DESIGNED TO FULLY BRACE TOP CHORD OF JOISTS UNDER SERVICE LOADS FOR JOISTS NOT BRACED BY STEEL ROOF DECK.
   2. BOTTOM CHORD OF ROOF JOISTS SHALL BE DESIGNED FOR NET UPLIFT SHOWN IN DIAGRAM ON S-601.
   3. BOTTOM CHORD OF ROOF JOIST GIRDERS SHALL BE DESIGNED FOR NET UPLIFT SHOWN IN DIAGRAM ON S-601.
   4. PROVIDE ADDITIONAL BOTTOM CHORD BRIDGING AS REQUIRED FOR NET UPLIFT SHOWN IN DIAGRAM ON S-601.

G. AT A MINIMUM, K-SERIES STEEL JOISTS SHALL BE CONNECTED TO STEEL BY 1/8" WELD, 1 1/2" EACH SIDE OR (2) 1/2" DIAMETER BOLTS. AT A MINIMUM, LONG SPAN STEEL JOISTS SHALL BE CONNECTED TO STEEL BY 1/4" WELD, 2" LONG EACH SIDE OR (2) 3/4" DIAMETER BOLTS. AT A MINIMUM, JOIST GIRDERS SHALL BE CONNECTED TO STEEL BY 1/4" WELD, 6" LONG EACH SIDE OR (2) 3/4" DIAMETER BOLTS. JOIST SEAT CONNECTION DETAILS SHALL BE PROVIDED BY FABRICATOR (BOLTED OR WELDED CONNECTIONS) BASED ON SJI AND LOADING REQUIREMENTS.

H. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF WALLS, BEAM FRAMING, METAL DECKING, ETC. WITH THE PITCH AND CAMBER OF STEEL JOISTS TO ENSURE COMPATIBILITY OF ROOF FRAMING AND WALL SYSTEMS.

STEEL ROOF DECK

A. ALL STEEL ROOF DECK WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS

B. ALL INTERIOR STEEL ROOF DECK SHALL BE ASTM A1008 FACTORY PRIMED FOR PAINT. ALL ROOF DECK WITH EXTERIOR EXPOSURE (TOP OR BOTTOM OF DECK EXPOSED TO ELEMENTS), ALL ROOF DECK WITH CONCRETE TOPPING, AND ALL ROOF DECK RECEIVING SPRAY APPLIED FIREPROOFING SHALL BE ASTM A653 GALVANIZED G60. ALL STEEL ROOF DECK SHALL BE A MINIMUM YIELD STRENGTH OF 80,000 PSI, UNLESS NOTED OTHERWISE.

C. DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION).

D. MINIMUM FINAL ROOF SLOPE SHALL BE DETERMINED BY THE ARCHITECT. WHERE SLOPE IS NOT ACHIEVED BY STEEL STRUCTURE, CREATE IT WITH INSULATION ABOVE THE DECK (SEE ARCHITECTURAL DRAWINGS).

E. ALL INTERIOR EXPOSED ROOF DECK SHALL BE ASTM A1008 FACTORY PRIMED FOR PAINT. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.

F. STEEL ROOF DECK SHALL BE ATTACHED TO STEEL SUPPORTS AS NOTED ON S-601.

SUSPENDED LOADS AT STRUCTURE

A. ATTACHMENT TO ROOF DECK FOR ANY SUSPENDED LOADS IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM CONTRACTING OFFICER REPRESENTATIVE.

B. PIPE HANGERS SHALL BE ATTACHED TO BOTTOM FLANGES OF JOISTS OR BEAMS WITH APPROVED CLAMPS/CONNECTIONS.

C. ALL MULTIPLE TIER CABLE TRAYS, PIPE RACKS OR GROUPS OF PIPES OR DUCTS SHALL BE SUPPORTED FROM EACH ROOF FRAMING MEMBER WHERE THE GROUP CROSSES THE MEMBER OR AT 8'-0" O.C. MAX. WHERE GROUP IS ORIENTED PARALLEL TO THE MEMBER, UNLESS NOTED OTHERWISE ON DRAWINGS.

D. HANGERS SHALL BE ADDED AT ALL PIPE VALVE AND FITTING LOCATIONS.

E. CONTRACTORS AND SUBCONTRACTORS SUSPENDING LOADS FROM STRUCTURE SHALL ACCOUNT FOR AND PROVIDE ALL CONNECTIONS, STRUTS, TIES AND RIGGING REQUIRED FOR COMPLETE INSTALLATION AND SHALL FURNISH DRAWINGS SHOWING POINTS OF SUPPORT, SUPPORT LOADS AND ALL REQUIRED SUPPLEMENTAL BRACING. PROVIDE SUPPORTS AND HANGERS AS REQUIRED FOR PIPING AND EQUIPMENT SO THAT ALL COMBINED LOADING SHALL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE AS SHOWN ON STRUCTURAL DRAWINGS. SUPPORT LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES AND SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS OF THE ITEMS SUPPORTED.

F. EXPENSE RESULTING FROM IMPROPER COORDINATION OR LOCATION OF ANCHOR BOLTS, OPENINGS, SLEEVES, INSERTS, HANGERS OR OTHER SUPPORTS REQUIRED FOR PIPING AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

COLD-FORMED STEEL FRAMING (STUDS AND JOISTS)

A. ALL COLD-FORMED STEEL FRAMING WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. ISOLATION OF NON-LOAD-BEARING FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS SHALL ALLOW FOR A MINIMUM OF SPAN/240 MOVEMENT FROM LIVE LOAD.

C. SEE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALLS AND TO VERIFY ALL DIMENSIONS SHOWN FOR LOAD BEARING WALLS.

METAL STAIRS AND RAILING

A. ALL METAL STAIR AND RAILING WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. SEE ARCHITECTURAL DRAWINGS FOR EXACT LAYOUT AND CONFIGURATION.

SEISMIC DESIGN OF NON-STRUCTURAL COMPONENTS

A. ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS, INCLUDING THEIR SUPPORT AND ATTACHMENTS, SHALL BE DESIGNED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC CHAPTER 16, ASCE7 CHAPTER 13, AND ANY ADDITIONAL REQUIREMENTS OF THE STATE OR LOCAL JURISDICTION. THESE REQUIREMENTS SHALL BE SATISFIED BY:
   1. PROJECT-SPECIFIC DESIGN AND DOCUMENTATION PREPARED AND SUBMITTED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED.
   2. SUBMITTAL OF MANUFACTURER'S CERTIFICATION THAT THE COMPONENT IS SEISMICALLY QUALIFIED BY ANALYSIS, TESTING IN ACCORDANCE WITH SECTION 13.2.5, OR EXPERIENCE DATA IN ACCORDANCE WITH SECTION 13.2.6.

B. SEISMIC BRACING OF ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS NOT SPECIFICALLY SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED.

C. ARCHITECTURAL COMPONENTS REQUIRING SEISMIC DESIGN AND DETAILING INCLUDE, BUT ARE NOT LIMITED TO, ACCESS FLOORS, CLADDING, GLAZING, PARTIAL HEIGHT INTERIOR WALLS, HANGING PARTITIONS, SUSPENDED CEILINGS, AND INTERIOR/EXTERIOR VENEER.

D. MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS REQUIRING SEISMIC DESIGN AND DETAILING INCLUDE, BUT ARE NOT LIMITED TO, DUCTS, LIGHT FIXTURES, PIPING SYSTEMS, ROOF TOP UNITS, AND OTHER EQUIPMENT SUPPORTED BY OR SUSPENDED FROM FLOORS OR ROOFS.

E. ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS CROSSING BUILDING EXPANSION JOINTS SHALL BE DETAILIED IN ORDER TO ACCOMODATE THE ANTICIPATED SEISMIC RELATIVE DISPLACEMENTS ACROSS THE JOINT.

WIND DESIGN OF NON-STRUCTURAL COMPONENTS

A. REFER TO THE WIND COMPONENTS AND CLADDING SCHEDULE ON SHEET S-002 FOR WIND PRESSURES TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS NOT SPECIFICALLY DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD.

CONSTRUCTION DOCS.

REV.	DATE/BY	DESCRIPTION
B	2017-12-22	65% SUBMITTAL
C	2018-02-21	95% SUBMITTAL
0	2018-04-13	FOR CONSTRUCTION
1	2018-06-01	FOR CONSTRUCTION

CIVIL ENGINEERING
94th AIRLIFT WING
DOBBINS AIR RESERVE BASE, GEORGIA

CROFT
Croft & Associates
3400 Blue Springs Road, Suite 200
Kennesaw, GA 30144
770.529.7714 (o)
770.529.7716 (f)
www.croftae.com

PES STRUCTURAL ENGINEERS

GEORGIA REGISTERED NO. 019313 PROFESSIONAL ENGINEER MICHAEL BENJAMIN PLANER
6/01/2018

PROJECT	REPAIR FACILITY & ADDITION BUILDING 747 FGWB 08-0027
LOCATION	DOBBINS AIR RESERVE BASE, GEORGIA
DRAWING	GENERAL NOTES
CONTACT	PROJECT CONTACT: ROBERT ERNST - DSN 625-3132 robert.ernst.5@us.af.mil
PROJECT No.	2017-238
PROJ. OFFICER	J. MORGAN
DESIGNED	M. WILSON
CHECKED	M. PLANER
DATE	2018-06-01
DRAWING 4	OF 45

S-001