

STRUCTURAL ABBREVIATIONS LEGEND

SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW. USE BUILDING CODE FOR REFERENCED DESIGN AND MATERIALS SYMBOLS, ACRONYMS & NOTATIONS.

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| & | AND | JH | JOIST HANGER |
| @ | AT | JT | JOINT |
| (E) | EXISTING | LT | ANGLE, LONG, LENGTH |
| FEET | FOOT, FEET | LL | LIVE LOAD |
| # | INCH, INCHES | LLH | LONG LEG HORIZONTAL |
| # | NUMBER, POUND | LLV | LONG LEG VERTICAL |
| AE | ARCHITECT/ENGINEER | LONG | LONGITUDINAL |
| AB | ANCHOR BOLT | LS | LAG SCREW |
| ABOVE | ABOVE | LWC | LIGHT WEIGHT CONCRETE |
| ADDL | ADDITIONAL | LWC | MAXIMUM |
| AFF | ABOVE FINISHED FLOOR | MB | MACHINE BOLT |
| AFG | ABOVE FINISHED GRADE | MC | MISCELLANEOUS CHANNEL |
| AFS | ABOVE FINISHED SLAB | MCI | MASONRY CONTROL JOINT |
| ALT | ALTERNATE | MDO | MASONRY DOWEL JOINT |
| ALUM | ALUMINUM | MECH | MECHANICAL |
| APPROX | APPROXIMATE | MEJ | MASONRY EXPANSION JOINT |
| ARCH | ARCHITECT | MFR | MANUFACTURER |
| ATR | ALL THROUGH ROD | MN | MINIMUM |
| BFF | BELOW FINISHED FLOOR | MISC | MISCELLANEOUS |
| BKG | BACKING | MJK | MASONRY KEY JOINT |
| BLDG | BUILDING | MRJ | MASONRY RAKE JOINT |
| BLKG | BLOCKING | NA | NOT APPLICABLE |
| BLW | BELOW | NF | NEAR FACE |
| BM | BEAM | NIC | NOT IN CONTRACT |
| BMU | BRICK MASONRY UNIT | NTS | NOT TO SCALE |
| BN | BOUNDARY NAIL | NWC | NORMAL WEIGHT CONCRETE |
| BOS | BOTTOM OF STEEL | OV | OVER |
| BOT | BOTTOM | OC | ON CENTER |
| BTWN | BETWEEN | OD | OUTSIDE DIAMETER |
| CB | CAMBER, CHANNEL | OPH | OPPOSITE HAND |
| CARRIAGE | CARRIAGE BOLT | OPNS | OPPOSITE |
| CBC | CALIFORNIA BUILDING CODE | OR | OUTSIDE RADIUS |
| CFSF | COLD-FORMED STEEL FRAMING | PAF | POWER ACTUATED FASTENER |
| CGR | CENTER OF GRAVITY | PC | PRECAST CONCRETE |
| CONJ | CONSTRUCTION JOINT | PFC | POUNDS PER CUBIC FOOT |
| CJP | COMPLETE JOINT PENETRATION | PP | PARTIAL JOINT PENETRATION |
| CL | CENTER LINE | PL | PLATE, PROPERTY LINE |
| CLR | CLEAR | PL | POUNDS PER LINEAR FOOT |
| CMU | CONCRETE MASONRY UNIT | PRFAB | PREFABRICATE |
| CON | CONCRETE | PSF | POUNDS PER SQUARE FOOT |
| CONN | CONNECT, CONNECTION | PSI | POUNDS PER SQUARE INCH |
| CONT | CONTINUE, CONTINUOUS | PTW | PRESERVATIVE TREATED WOOD |
| CRS | COLD ROLLED STEEL | QTY | QUANTITY |
| CSK | COUNTER SUNK | RAD | RADIUS, RISER |
| CTR | CENTER | REBAR | REINFORCING STEEL BAR |
| D | D PENNY (NAIL), DEEP, DEPTH | REINF | REINFORCE, REINFORCING |
| DBL | DOUBLE | REQ | REQUIRE, REQUIRED |
| DOV | DEMAND CRITICAL WELD | RND | ROUND |
| DEG | DEGREE | RO | ROUGH OPENING |
| DEMO | DEMOLITION | RS | ROUGH SAWN |
| DET | DETAIL | RWD | REDWOOD |
| DIA | DIAMETER | S | SPACED, SPACING, SPICE, STEP |
| DIAG | DIAGONAL | SAD | SEE ARCHITECTURAL DRAWINGS |
| DIM | DIMENSION | SCHED | SCHEDULE |
| DJ | DOWEL JOINT | SDST | SELF-DRILLING SELF-TAPPING |
| DL | DEAD LOAD | SE | STRUCTURAL ENGINEER |
| DO | DO OVER | SECT | SECTION |
| DOUG FIR | DOUGLAS FIR | SFRS | SEISMIC FORCE RESISTING SYSTEM |
| DWG | DRAWING | SHTHG | SHEDDING |
| DWL | DOWEL | SI | SIMILAR |
| EA | EACH | SJ | SHRINKAGE JOINT |
| EE | EACH END | SNL | SNOW LOAD |
| EF | EACH FACE | SP | STRUCTURAL PANEL |
| EJ | EXPANSION JOINT | SPEC | SPECIFICATION |
| EL | ELEVATION | SQ | SQUARE |
| ELEC | ELECTRIC, ELECTRICAL | SST | STAINLESS STEEL |
| ELEV | ELEVATOR | STAG | STAGGERED |
| EMBED | EMBEDMENT | STD | STANDARD |
| EN | EDGE NAIL | STF | STIFFENER |
| EOS | EDGE OF SLAB | STRIP | STRIP |
| EQ | EACH EQUALLY | STL | STEEL |
| ES | EACH SIDE | STRUCT | STRUCTURAL |
| EW | EACH WAY | SYMM | SYMMETRICAL |
| EXT | EXTERIOR | T | TREAD, THICKNESS |
| FF | FACE TO FACE | T&B | TOP & BOTTOM |
| FA | FRAMING ANGLE | T&G | TONGUE & GROOVE |
| FB | FLAT BAR | THK | THICKNESS |
| FDTN | FOUNDATION | THRU | THROUGH |
| FIN | FINISH | TJ | TOOL JOINT |
| FLG | FLANGE | TJN | TOE NAIL |
| FLR | FLOOR | TOB | TOP OF BEAM |
| FN | FIELD NAIL | TOC | TOP OF CURB/CONCRETE |
| FOC | FACE OF CONCRETE/CURB | TOF | TOP OF FRAMING/FOOTING/FLOOR |
| FOF | FACE OF FINISH | TOJ | TOP OF JOINT |
| FOM | FACE OF MASONRY | TOM | TOP OF MASONRY |
| FOS | FACE OF STUD | TOP | TOP OF PARAPET |
| FOW | FACE OF WALL | TOS | TOP OF STEEL |
| FRMG | FRAMING | TOSP | TOP OF STRUCTURAL PANEL |
| FRTW | FIRE RETARDANT TREATED WOOD | TOT | TOP OF TRUSS |
| FS | FAR SIDE | TOF | TOP OF WALL |
| FT | FEET, FOOT | TS | TUBE STEEL |
| FTG | FOOTING | TP | TYPICAL |
| FURNG | FURRING | UC | UNDERCUT |
| GA | GAGE | UNO | UNLESS NOTED OTHERWISE |
| GALV | GALVANIZED | UNO | UNLESS OTHERWISE NOTED |
| GLB | GLUED LAMINATED BEAM | VERT | VERTICAL |
| GR | GRADE | VERIFY | VERIFY IN FIELD |
| H | HIGH, HEIGHT | WF | VAPOR RETARDER |
| HDR | HEADER | W | WIDE, WIDTH, WELD, W-SHAPE |
| HGR | HANGER | W | WITH |
| HLDN | HOLDDOWN | WO | WITHOUT |
| HORIZ | HORIZONTAL | WF | WIDE FLANGE |
| HST | HIGH STRENGTH | WHS | WELDED HEADED STUD |
| HSB | HIGH STRENGTH BOLT | WL | WIND LOAD |
| HSS | HOLLOW STRUCTURAL SECTION | WO | WHERE OCCURS |
| HT | HEIGHT | WORKING | WORKING POINT |
| ICC | INTERNATIONAL CODE COUNCIL | WT | WEIGHT, W-TEE-SHAPE |
| IDC | INSIDE DIAMETER | WTS | WELDED THREADED STUD |
| IJ | ISOLATION JOINT | WRR | WELDED WIRE REINFORCEMENT |
| INFO | INFORMATION | XS | EXTRA STRONG |
| INT | INTERIOR | XSS | DOUBLE EXTRA STRONG |
| IR | INSIDE RADIUS | | |

STRUCTURAL GENERAL NOTES

- THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE FINISHED PROJECT AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DOCUMENTS. SEE OTHER CONSTRUCTION DOCUMENTS FOR COMPLETE PROJECT REQUIREMENTS.
- REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PRODUCED FOR THIS PROJECT, SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.
- WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR REVIEW, DESIGN, ENFORCEMENT AGENCY APPROVAL, AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK.
- CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
- PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE INDICATED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWING. PROVIDE ALL MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
- DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
- CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS, CODES AND REGULATIONS.
- REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, AISC, AWS, AIA, AND ASS SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY.
- FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
- STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
- THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.
- STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETE DIMENSIONS. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
- PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO, PROPERTIES, STREETS, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIET, WATER, FUMES, SMOKE, TRASH, NOISE AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.
- STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETE STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE INCOMPLETE OR COMPLETED STRUCTURE FOR THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.
- IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, COMPARATIVE QUALITY, SUITABILITY, PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SUBSTITUTION WILL BE ALLOWED FOR EACH STRUCTURAL ELEMENT. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN SUBSTITUTIONS ARE INCOMPLETE OR ACCEPTANCE WOULD REQUIRE REVISIONS TO THE CONSTRUCTION DOCUMENTS. PROVIDE OWNER REIMBURSEMENT FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER, OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
- SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFER TO STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
- THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2012 IBC
 ENFORCEMENT AGENCY: US DEPARTMENT OF VETERANS AFFAIRS
 A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)
 FLOOR LIVE LOADS:
 - OPERATING ROOMS/LABORATORIES 60 PSF (REDUCIBLE)
 - EXIT FACILITIES (STAIRS, CORRIDORS, ETC.) 100 PSF (NON-REDUCIBLE)
 B. LATERAL DESIGN CRITERIA
 SEISMIC:
 SITE CRITERIA: S_s=1.79, S₁=0.63, S_D=1.19, S_{D1}=0.54, SITE CLASS: C
 BUILDING CRITERIA: RISK CATEGORY= IV, I=1.50
 SEISMIC DESIGN CATEGORY= E

STRUCTURAL SUBMITTALS

- SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGN TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
- SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.
- SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS CONTAINING REPRODUCTIONS OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO REJECTION.
- EACH SUBMITTAL SHALL HAVE A COVER SHEET IDENTIFYING THE CONTENTS BY SPECIFICATION SECTION AND LISTING EACH ITEM AND SHEET NUMBER. EACH SUBMITTAL SHALL HAVE A UNIQUE IDENTIFICATION NUMBER. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
- PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, STAMP SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCOMPLETE IN THE JUDGMENT OF THE STRUCTURAL ENGINEER, WILL BE RETURNED WITHOUT REVIEW SO THEY CAN BE COMPLETED. THE STRUCTURAL ENGINEER SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, THE OWNER'S TESTING LABORATORY SHALL STAMP THE FOLLOWING MARKED SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS:
 - CONCRETE MIX DESIGNS AND SUBSTITUTING TEST DATA
 - MASONRY GROUT MIX DESIGNS AND SUBSTITUTING TEST DATA
 - WELDING PROCEDURE SPECIFICATIONS
- SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO UTILIZATION. INSPECTION, FABRICATION OR CONSTRUCTION OF ITEMS CONTAINED WITHIN THE SUBMITTALS.
- SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER'S JUDGMENT, FOR A REASONABLE PERIOD FOR ADEQUATE REVIEW, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. ALLOW THE STRUCTURAL ENGINEER THE GREATER REVIEW PERIOD OF: TEN (10) WORK DAYS, OR FIVE (5) WORK DAYS FOR EACH 100 SHEETS, OR PORTION THEREOF. FOR EACH SUBMITTAL, SUBMITTAL REVIEW PERIOD COMMENCES WITH THE DATE OF DELIVERY TO THE STRUCTURAL ENGINEER. CONCURRENT SUBMITTALS OF MULTIPLE PORTIONS OF THE SAME SUBMITTAL ITEM WILL BE REVIEWED IN THEIR ENTIRETY AS ONE SUBMITTAL, SUBJECT TO THE REVIEW PERIOD LIMITATION ABOVE. SCHEDULE SUBMITTALS FOR REVIEW AND CONSTRUCTION ACCORDINGLY.
- REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER WILL INCLUDE CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. IT WILL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF ITEMS SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES. FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION WITH THE WORK OF OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE STRUCTURAL ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IN WRITING.
- SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
- SUBMITTALS THAT WILL REQUIRE ADDITIONAL REVIEW, IN THE STRUCTURAL ENGINEER'S JUDGMENT, WILL BE MARKED "RE-REVIEW". THE SUBMITTAL SHALL BE REVISED AND RESUBMITTED FOR RE-REVIEW AND IS SUBJECT TO ALL THE REQUIREMENTS OF THE INITIAL SUBMITTAL. PROVIDE OWNER REIMBURSEMENT FOR STRUCTURAL ENGINEER COSTS INCURRED TO RE-REVIEW SUBMITTALS.
- SUBMITTALS THAT HAVE BEEN REVIEWED AND RETURNED BY THE STRUCTURAL ENGINEER, IN THEIR COMPLETE DIMENSIONS, SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
- THE MINIMUM REQUIRED STRUCTURAL SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING MARKED ITEMS:
 - FILE FABRICATION DRAWINGS AND CALCULATIONS
 - CONCRETE MIX DESIGNS AND SUBSTITUTING TEST DATA
 - CONCRETE REINFORCING PLACEMENT DRAWINGS
 - WELDING PROCEDURE SPECIFICATIONS AND DATA SHEETS
 - CONCRETE SLAB JOINT LAYOUT
 - MASONRY REINFORCING PLACEMENT DRAWINGS AND SUBSTITUTING TEST DATA
 - MASONRY MORTAR MIX DESIGNS
 - OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND DATA SHEETS
 - STRUCTURAL STEEL SHOP DRAWINGS
 - STEEL DECK PLACEMENT DRAWINGS AND DATA SHEETS
 - WELDING PROCEDURE SPECIFICATIONS
 - METAL-PLATE-CONNECTED WOOD TRUSS PLACEMENT DRAWINGS AND CALCULATIONS
 - WOOD I-JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - METAL WEB WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - GLUED-LAMINATED TIMBER FABRICATION AND PLACEMENT DRAWINGS AND CERTIFICATIONS
 - PRE-ENGINEERED LUMBER CERTIFICATIONS AND DATASHEETS
 - OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - PRE-ENGINEERED STEEL STAR SHOP DRAWINGS AND CALCULATIONS
 - COLD-FORMED STEEL FRAMING PRODUCTS, ACCESSORIES, DATA SHEETS AND CALCULATIONS

STRUCTURAL TESTING & INSPECTION

- SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK MARKED IN THE LIST BELOW IN CONFORMANCE WITH THE ENFORCEMENT AGENCY REGULATORY REQUIREMENTS. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY.
 A. TESTING
 - EXCAVATION, GRADING & FILLING FOR ALL FOUNDATION WORK
 - PILE DRIVING & TESTING
 - PLACEMENT OF CONCRETE & REINFORCEMENT
 - PLACEMENT OF MASONRY & REINFORCEMENT & DURING GROUTING OPERATIONS
 - SHOP WELDS NOT DONE IN FABRICATOR'S SHOP REGISTERED & APPROVED BY THE BUILDING OFFICIAL
 - FIELD WELDING
 - HIGH-STRENGTH BOLTING
 - EXPANSION, EPOXY, SCREW ANCHORS
 - SPRAY-APPLIED FIRE PROOFING
 - SHOTCRETE
 - GULFUM FABRICATION
 - I-JOIST FABRICATION
 - WELDED SHEAR STUDS
 B. SPECIAL INSPECTIONS
 - EXCAVATION, GRADING & FILLING FOR ALL FOUNDATION WORK
 - PILE DRIVING & TESTING
 - PLACEMENT OF CONCRETE & REINFORCEMENT
 - PLACEMENT OF MASONRY & REINFORCEMENT & DURING GROUTING OPERATIONS
 - SHOP WELDS NOT DONE IN FABRICATOR'S SHOP REGISTERED & APPROVED BY THE BUILDING OFFICIAL
 - FIELD WELDING
 - HIGH-STRENGTH BOLTING
 - EXPANSION, EPOXY, SCREW ANCHORS
 - SPRAY-APPLIED FIRE PROOFING
 - SHOTCRETE
 - GULFUM FABRICATION
 - I-JOIST FABRICATION
 - WELDED SHEAR STUDS

STRUCTURAL OBSERVATION

- STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION IS A SIGNIFICANT CONSTRUCTION STAGE AND AT COMPLETION OF THE STRUCTURAL SYSTEM.
- STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION.
- STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.
- THE FOLLOWING COMPLETED CONSTRUCTION STAGES MARKED ARE SUBJECT TO STRUCTURAL OBSERVATION IF DEEMED NECESSARY DURING CONSTRUCTION BY THE STRUCTURAL OBSERVER:
 - FOUNDATION EXCAVATIONS AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
 - FORMWORK CONSTRUCTION AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
 - CONCRETE TILT-UP PANEL INSTALLATION
 - CONCRETE PRE-CAST ELEMENT PANEL INSTALLATION
 - MASONRY INSTALLATION AND REINFORCEMENT PRIOR TO GROUT PLACEMENT
 - STEEL FRAMING ERECTION
 - STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO CONCRETE FILL PLACEMENT
 - STEEL DECK INSTALLATION ON FRAMING
 - WOOD FRAMING ERECTION
 - WOOD HARDWARE AND CONNECTOR INSTALLATION ON STRUCTURAL FRAMING
 - COLD-FORMED STEEL FRAMING ERECTION
 - PRE-FABRICATED STRUCTURAL ELEMENT INSTALLATION
 - PRIOR TO THE CLOSING OF ANY PHASE
 - STRUCTURAL SYSTEM COMPLETION
- NOTIFY THE STRUCTURAL OBSERVER 48 HOURS MINIMUM IN ADVANCE OF THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES TO FACILITATE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER. COORDINATE WITH THE STRUCTURAL OBSERVER SO THAT THE WORK FOR THE CONSTRUCTION STAGES NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR STRUCTURAL OBSERVATION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW STRUCTURAL OBSERVATION.
- DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOTED DURING STRUCTURAL OBSERVATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE OWNER REIMBURSEMENT FOR DESIGN PROFESSIONAL COSTS INCURRED TO CORRECT DEVIATIONS AND TO MAKE REVISIONS TO THE CONSTRUCTION DOCUMENTS, INCLUDING OBTAINMENT OF ENFORCEMENT AGENCY APPROVAL, AS REQUIRED.
- CORRECTIVE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AND THE BUILDING CODE.
- AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE ENFORCEMENT AGENCY A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATIONS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

EXISTING CONSTRUCTION

- CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
- EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
- VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
- PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
- EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
- PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING FOUNDATIONS THAT MAY BE AFFECTED BY ANY EXCAVATIONS REQUIRED FOR THIS PROJECT SHALL BE UNDERPINNED, SHORED OR SUPPORTED ADEQUATELY TO PREVENT SETTLEMENT AND LATERAL MOVEMENT.
- IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, EXCESSIVE CRACKING, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
- WHEN INSTALLING ANCHORS (POST-INSTALLED EXPANSION AND CHEMICAL ANCHORS OR POWDER ACTUATED FASTENERS) OR DRILLING/CORING HOLES AT EXISTING CONCRETE OR REINFORCING HOLES, LOCATE EDGE OF ANCHORS OR HOLES NO CLOSER THAN 1" FROM FACE OF EXISTING REINFORCING.
- WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER LOCATIONS, BUT NOT INDICATED FOR OVERLAP. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND COREDRILL HOLE. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
- ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

STRUCTURAL STEEL

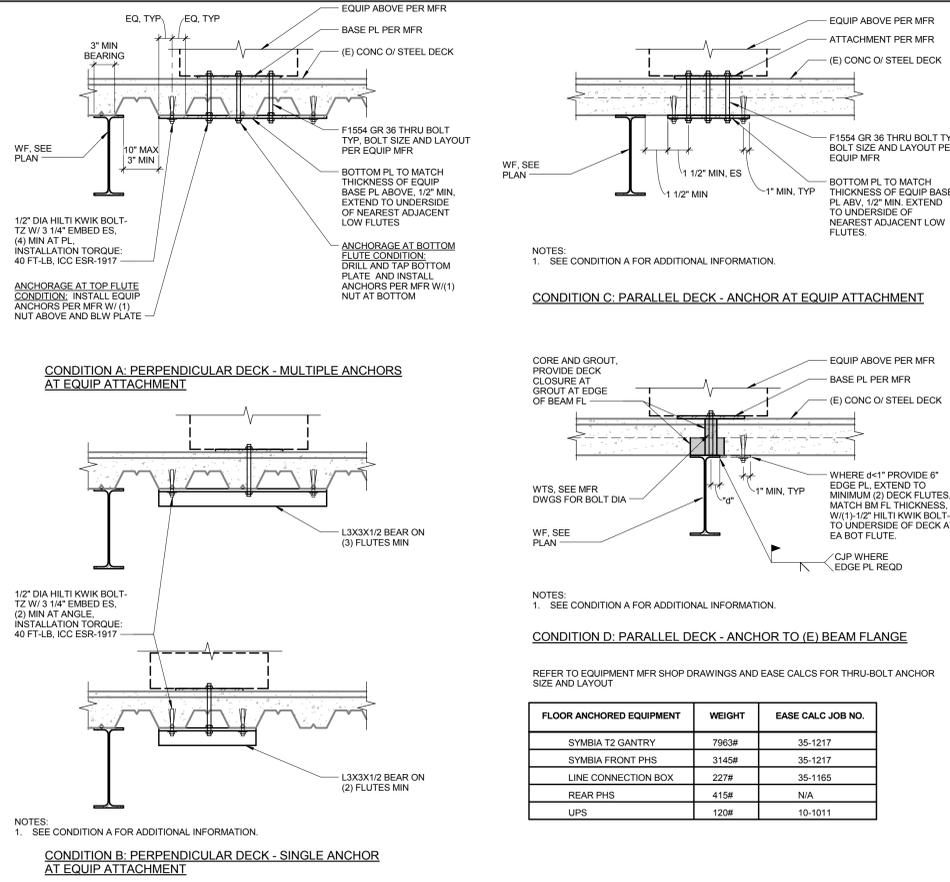
- THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING UNO:

| STEEL PRODUCT | ASTM SPECIFICATION, UNO | COMMENTS |
|---|------------------------------------|-------------|
| W & WT SHAPES | A992, GRADE 50 | Fy = 50ksi |
| SH SHAPES | A588, GRADE 50 | Fy = 50ksi |
| M, MT, S & T SHAPES | A36 | Fy = 36ksi |
| CHANNELS (C & MC) | A36 | Fy = 36ksi |
| ANGLES | A36 | Fy = 36ksi |
| PLATES & BARS | A36, TYP. UNO | Fy = 36ksi |
| | A572, GRADE 50 | Fy = 50ksi |
| | A36 | Fy = 36ksi |
| RODS, PLAIN & ALL-THREADED | A776, METTING ASTM A36 | Fy = 36ksi |
| RAISED-PATTERN FLOOR PLATE | A588, GRADE 50 | Fy = 50ksi |
| PIES | A500, GRADE B | Fy = 42ksi |
| ROUND HSS | A500, GRADE B | Fy = 42ksi |
| RECTANGULAR & SQUARE HSS | A500, GRADE B | Fy = 42ksi |
| HEAVY HEX, TYPE I | A505, HEAVY HEX, TYPE I | Fy = 50ksi |
| TWIST-OFF-TYPE TENSION-CONTROL BOLTS | F1552, TYPE I | |
| BOLTS | A307, GRADE A, HEX | Fy = 60ksi |
| WASHERS | F44 | |
| PLATE WASHERS | A36 | Fy = 36ksi |
| HARDENED WASHERS | F446, TYPE I | |
| DIRECT-TENSION INDICATOR WASHERS | F899, TYPE 325 | |
| NUTS FOR HS & TENSION CONTROL BOLTS | A563, GRADE C, HEAVY HEX | |
| NUTS FOR BOLTS & RODS | A563, HEAVY HEX, GRADE A, TYP. UNO | |
| | GRADE D/H GALVANIZED | |
| | GRADE D/H W/ F1554 GRADE 105 BOLTS | |
| ANCHOR BOLTS & RODS (HEADED OR THREADED & NUTTED) | F1554, CLASS 2A, S3 | Fy = 36ksi |
| | GRADE 55, S1 & S4 | Fy = 55ksi |
| | GRADE 105, S4 & S5 | Fy = 105ksi |
| | GRADE 105, S4 & S5 | Fy = 105ksi |
| | GRADE 105, S4 & S5 | Fy = 105ksi |
| WELDED HEADED STUDS, SHEAR STUDS, & WELDED THREADED STUDS | A108, GRADES 1010 - 1020 | |
| DEFORMED BAR ANCHORS | A498 | Fy = 75ksi |
| WELD REINFORCING | ASTM D11 | Fy = 70ksi |
| TURNBUCKLES | F1145 & AISC C-1035 | |
| CLEVELAND & ELEVATORS | AISC C-1035 | |
| EVENES & EYEBOLTS | AISC C-1035 | |
| SLEEVE NUTS | AISI C-1018, CARBON STEEL | |
| COUPLING NUTS | AISI 12L14, GRADE 2 | |

STRUCTURAL TESTING & INSPECTION

- SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK MARKED IN THE LIST BELOW IN CONFORMANCE WITH THE ENFORCEMENT AGENCY REGULATORY REQUIREMENTS. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY.
 A. TESTING
 - EXCAVATION, GRADING & FILLING FOR ALL FOUNDATION WORK
 - PILE DRIVING & TESTING
 - PLACEMENT OF CONCRETE & REINFORCEMENT
 - PLACEMENT OF MASONRY & REINFORCEMENT & DURING GROUTING OPERATIONS
 - SHOP WELDS NOT DONE IN FABRICATOR'S SHOP REGISTERED & APPROVED BY THE BUILDING OFFICIAL
 - FIELD WELDING
 - HIGH-STRENGTH BOLTING
 - EXPANSION, EPOXY, SCREW ANCHORS
 - SPRAY-APPLIED FIRE PROOFING
 - SHOTCRETE
 - GULFUM FABRICATION
 - I-JOIST FABRICATION
 - WELDED SHEAR STUD

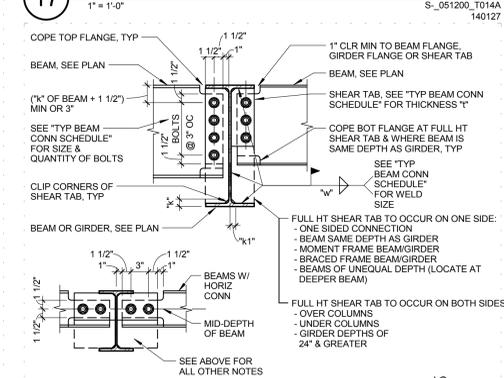
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot



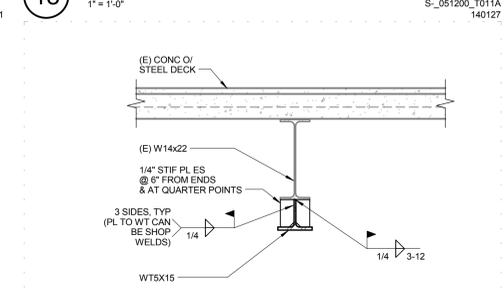
| FLOOR ANCHORED EQUIPMENT | WEIGHT | EASE CALC JOB NO. |
|--------------------------|--------|-------------------|
| SYMBIA T2 GANTRY | 7963# | 35-1217 |
| SYMBIA FRONT PHS | 3145# | 35-1217 |
| LINE CONNECTION BOX | 227# | 35-1165 |
| REAR PHS | 415# | N/A |
| UPS | 120# | 10-1011 |

| NOMINAL BEAM OR CHANNEL DEPTH | A325 BOLTS (QUANTITY) DIA | WELD SIZE | SHEAR TAB THICKNESS "t" |
|-------------------------------|---------------------------|-----------|-------------------------|
| 5, 6, 7 | (2) 7/8" HORIZ | 3/16" | 1/4" |
| 8, 9, 10 | (2) 7/8" | 3/16" | 1/4" |
| 12, 13, 14 | (3) 7/8" | 5/16" | 3/8" |
| 15, 16 | (4) 7/8" | 5/16" | 3/8" |
| 18, 20 | (5) 7/8" | 5/16" | 3/8" |
| 21, 24 | (6) 7/8" | 3/8" | 1/2" |
| 27 | (7) 7/8" | 3/8" | 1/2" |
| 30 | (8) 7/8" | 3/8" | 1/2" |
| 33 | (9) 7/8" | 3/8" | 1/2" |
| 36 | (10) 7/8" | 1/2" | 5/8" |
| 40 | (11) 7/8" | 1/2" | 5/8" |
| 44 | (12) 7/8" | 1/2" | 5/8" |

17 TYP BEAM CONNECTION SCHEDULE
1" = 1'-0"



18 TYP BEAM TO BEAM OR GIRDER CONNECTION
1" = 1'-0"

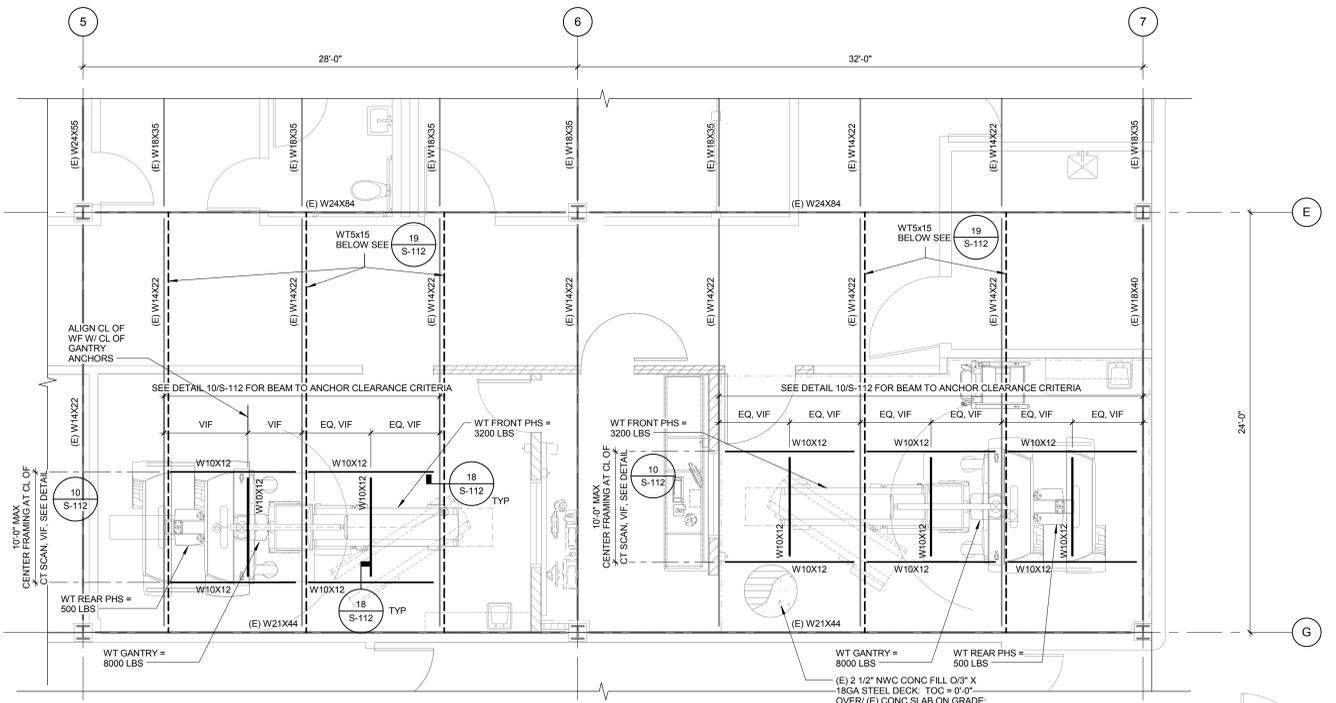


19 BEAM REINFORCEMENT AT CT SCAN
1" = 1'-0"



PLAN NOTES

- SEE S-001 FOR NOTES.
- DIMENSIONS ARE TO CENTERLINE OF COLUMNS, UNO.
- SEE ARCH AND OTHER CONSULTANT DRAWINGS FOR DIMENSIONS.
- COORDINATE LOCATIONS OF NEW SUPPORT BEAMS WITH EQUIPMENT MANUFACTURERS ANCHORAGE LAYOUT.



1 FRAMING PLAN - 1ST FLOOR
1/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS

| | | | | | | | | | | |
|--|--|---|--|--|--|------------------------------|--|--------------------|----------------|-------------|
| CONSULTANTS: LTK ASSOCIATES Incorporated Structural Engineers 745 Diotal Drive Los Altos, CA 94022 (650) 987-8465 FAX (650) 987-5148 | | ARCHITECT/ENGINEERS: hfp architects 209 w. alamar ave. santa barbara, ca 93105 805 969 6887 fax: 805 969 6888 | | Drawing Title FRAMING PLAN AND DETAILS 1ST FLOOR | Project Title CT SCANNER PREP VA NORTHERN CALIFORNIA HEALTHCARE SYSTEM | Project Number 612-14-037 | Office of Construction and Facilities Management Department of Veterans Affairs | | | |
| Revisions: _____ Date: _____ | | Approved: Project Director | | Location MARTINEZ, CA | Building Number 19 | Drawing Number S-112 | | Date 06/26/2015 | Checked BHA | Drawn PB |

Scale: As indicated