

Georgia Institute of Technology

VETERAN'S RESOURCE CENTER

901 ATLANTIC DRIVE
ATLANTA GA 30318

OWNER:
GEORGIA INSTITUTE OF TECHNOLOGY
151 6TH STREET NW
ATLANTA, GA 30332
404.358.3290/ CONTACT: THOMAS SCHNEIDER
TSCHNEIDER33@GATECH.EDU

ARCHITECT:
ASD, INC.
55 IVAN ALLEN JR. BLVD, SUITE 100
ATLANTA, GA 30308
404.688.3318 / CONTACT: KARA THOMAS
KTHOMAS@ASDNET.COM

MEP/STRUCTURAL ENGINEER:
NEWCOMB & BOYD
303 PEACHTREE CENTER AVE NE SUITE 525
ATLANTA, GA 30303
404.730.8538 CONTACT: MATTHEW DIPIRO
MDIPIRO@NEWCOMB-BOYD.COM



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SECTION 01100 GENERAL REQUIREMENTS

01100-1
ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE TERMS OF THE LEASE AND APPLICABLE BUILDING STANDARD SPECIFICATIONS. WORKMANSHIP AND MAINTAINING STANDARDS OF QUALITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL WORK SHOWN IN THE CONTRACT DOCUMENTS AND IS REQUIRED TO PROVIDE A COMPLETE, FINISHED INSTALLATION, UNLESS OTHERWISE NOTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCQUANT HIMSELF WITH ALL SUCH TENANT AND BUILDING STANDARDS REGARDLESS OF WHETHER THEY HAVE BEEN SPECIFICALLY REFERENCED IN THESE DOCUMENTS OR NOT.

01100-2
THE CONTRACTOR SHALL ARRANGE FOR ELEVATOR OR OTHER HOISTING FACILITIES FOR MATERIALS AS WELL AS PARKING AND LOADING FACILITIES WITH THE BUILDING MANAGEMENT. THE CONTRACTOR SHALL PAY ALL COSTS FOR DELIVERY AND/OR HANDLING OF MATERIALS.

01100-3
ALL ARRANGEMENTS FOR CONSTRUCTION PERSONNEL ENTERING THE BUILDING DURING OR AFTER WORKING HOURS, MATERIALS DELIVERY, STORAGE, SECURITY, DEBRIS REMOVAL, ETC., SHALL BE MADE WITH THE BUILDING MANAGEMENT.

01100-4
PRIOR TO CONSTRUCTION, THE CONTRACTOR, AND HIS SUBCONTRACTORS, SHALL PROVIDE UNIT PRICES FOR ALL WORK SHOWN. SUCH UNIT PRICING SHALL BE REQUIRED TO BE SUBMITTED PRIOR TO SUBMITTAL OF THE FIRST APPLICATION FOR PAYMENT. FAILURE TO SUBMIT THE UNIT PRICING SHALL BE CONSIDERED GROUNDS FOR REJECTION OF THE INITIAL APPLICATION FOR PAYMENT. SUCH UNIT PRICES SHALL BE GOOD FOR THE DURATION OF THE PROJECT AND SHALL BE USED AS THE BASIS FOR ALL CHANGES TO THE WORK.

01100-5
THE CONTRACTOR SHALL SCHEDULE AND PERFORM ALL WORK SO AS NOT TO DISTURB ANY TENANT IN THE BUILDING AND SHALL IDENTIFY ALL OVERTIME COSTS REQUIRED TO COMPLETE THE WORK IN HIS BID.

01100-6
THE CONTRACTOR SHALL PREPARE A COMPLETE CONSTRUCTION SCHEDULE TO INCLUDE WORK TO BE PERFORMED BY THE TENANT'S VENDORS (INCLUDING FURNITURE VENDORS) TO BE SUBMITTED WITHIN ONE WEEK OF AWARD OF THE CONTRACT.

01100-7
SUBSTITUTIONS SHALL BE ALLOWED ONLY IF THE SPECIFIED ITEMS CANNOT BE INSTALLED WITHIN THE TENANT'S MOVE-IN SCHEDULE AND ONLY WITH THE APPROVAL OF THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR SELECTION AND APPROVAL OF ALL SUBSTITUTED ITEMS PRIOR TO SUBMISSION OF HIS BID. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND TO DEMONSTRATE THAT ALL SUBSTITUTIONS USED IN THE WORK COMPLY WITH THE CONTRACT DOCUMENTS. SHOULD A SUBSTITUTED PRODUCT FAIL TO MEET ANY REQUIREMENT WHERE THE ORIGINALLY SPECIFIED PRODUCT WOULD HAVE, THE CONTRACTOR SHALL PERFORM ALL THE WORK NECESSARY TO INCORPORATE THE ORIGINALLY SPECIFIED PRODUCT AT NO ADDITIONAL COST.

01100-8
THE CONTRACTOR SHALL IMMEDIATELY ANALYZE THE CONTRACT DOCUMENTS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. THE CONTRACTOR SHALL BE REQUIRED TO CORRECT ANY DEFECTIVE WORK CAUSED BY WORK DONE AS A RESULT OF INCONSISTENCIES OR DISCREPANCIES IN THE DRAWINGS WHEN CLARIFICATION FROM THE ARCHITECT HAS NOT BEEN SOUGHT.

01100-9
ARCHITECTURAL DOCUMENTS SHALL HAVE PRECEDENCE OVER ENGINEERING DOCUMENTS. HOWEVER, BOTH SHALL BE REVIEWED AND COORDINATED BY THE CONTRACTOR. REPORT ANY DISCREPANCIES WITHIN THE DOCUMENTS TO THE ARCHITECT.

01100-10
DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS.

01100-11
THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A SET OF REPRODUCIBLE AS-BUILT DOCUMENTS AT PROJECT CLOSEOUT.

01100-12
VERIFY FIELD CONDITIONS AND EXISTING LOCATIONS OF ALL PLUMBING, MECHANICAL DUCTS, STRUCTURAL ELEMENTS AND ANY AND ALL OTHER APPLICABLE ITEMS THAT MAY AFFECT THE PROJECT. INSTALL NEW PLUMBING, SPRINKLER LINES AND HEADS, MECHANICAL FANS, DUCTS SO AS TO NOT CONFLICT WITH LUMINARIES AND ANY AND ALL FIELD CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF PLENUM ELEMENTS. ARRANGE OR MODIFY NON-VISIBL E ITEMS TO FIT CONDITIONS OR REFLECTED CEILING. ANY AND ALL COSTS RESULTING FROM CHANGES INCURRED TO ENSURE INTEGRITY OF THE REFLECTING CEILING PLAN LAYOUT SHALL BE BORN BY THE CONTRACTOR.

01100-13
THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS OF MECHANICAL, ELECTRICAL AND PLUMBING TO THE BASE BUILDING SYSTEMS WITH THE BUILDING MANAGEMENT.

01100-14
THE CONTRACTOR SHALL PERFORM ALL WORK IN SUCH A MANNER THAT A SHUTDOWN OF ANY UTILITIES, ALARM, SECURITY OR COMMUNICATIONS SYSTEMS SHALL NOT OCCUR WITHOUT THE CONSENT OF THE BUILDING MANAGEMENT.

SECTION 01300 ADMINISTRATIVE NOTES & SUBMITTALS

01300-1
PROPOSAL REQUESTS ISSUED BY THE ARCHITECT ARE FOR INFORMATION ONLY. DO NOT CONSIDER THEM INSTRUCTION TO STOP WORK IN PROGRESS OR TO EXECUTE THE PROPOSED CHANGE UNTIL SPECIFICALLY INSTRUCTED TO DO SO BY THE ARCHITECT.

01300-2
UPON THE OWNER'S APPROVAL OF A PROPOSAL REQUEST, THE CONTRACTOR WILL ISSUE A CHANGE ORDER FOR SIGNATURES OF THE OWNER AND ARCHITECT ON AIA FORM G701, AS PROVIDED IN THE CONDITIONS OF THE CONTRACT.

01300-3
THE CONTRACTOR SHALL PREPARE A FULLY DEVELOPED, HORIZONTAL BAR-CHART TYPE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL SUBMIT SUCH SCHEDULE WITHIN 7 CALENDAR DAYS OF NOTICE TO PROCEED.

01300-4
THE CONTRACTOR SHALL PREPARE AND SUBMIT A COMPLETE SCHEDULE OF SUBMITTALS WITHIN 14 CALENDAR DAYS OF NOTICE TO PROCEED.

01300-5
THE CONTRACTOR SHALL REVIEW AND APPROVE DATA SUBMITTALS, SHOP DRAWINGS AND SAMPLES PRIOR TO SUBMITTING THEM TO THE ARCHITECT. THE ARCHITECT SHALL NOT BE OBLIGATED TO REVIEW AND RETURN SUBMITTALS WITHOUT PROPER CONTRACTOR REVIEW.

01300-6
THE CONTRACTOR SHALL COORDINATE THE PREPARATION AND PROCESSING OF SUBMITTALS WITH THE PERFORMANCE OF THE WORK SO THAT THE WORK WILL NOT BE DELAYED BY SUBMITTALS INCLUDING THE TIME REQUIRED FOR RESUBMITTALS.

01300-7
THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ANY ERRORS, OMISSIONS OR DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA OR SAMPLES.

01300-8
ALLOW 14 DAYS FOR INITIAL SUBMITTAL REVIEW. ALLOW 7 DAYS FOR REPROCESSING EACH SUBMITTAL.

01300-9
NO EXTENSION OF CONTRACT TIME WILL BE AUTHORIZED BECAUSE OF FAILURE TO TRANSMIT SUBMITTALS TO THE ARCHITECT SUFFICIENTLY IN ADVANCE OF THE WORK TO PERMIT PROCESSING.

01300-10
SUBMITTALS SHALL BE TRANSMITTED FROM CONTRACTOR TO ARCHITECT USING A TRANSMITTAL FORM. ON THE TRANSMITTAL RECORD RELEVANT INFORMATION AND REQUEST FOR DATA. ON THE FORM OR SEPARATE SHEET, RECORD DEVIATIONS FROM CONTRACT DOCUMENT REQUIREMENTS, INCLUDING MINOR VARIATIONS AND LIMITATIONS. INCLUDE CONTRACTOR'S CERTIFICATION THAT INFORMATION COMPLIES WITH CONTRACT REQUIREMENTS. ALL SHOP DRAWINGS MUST BE CROSS REFERENCED TO ARCHITECTURAL DRAWINGS.

01300-11
PRODUCT DATA: SUBMIT 1 COPY OF EACH REQUIRED SUBMITTAL IN PDF FORMAT VIA EMAIL TO THE ARCHITECT. THE ARCHITECT AND ENGINEER OR APPROPRIATE CONSULTANT WILL REVIEW THE SUBMITTAL AND WILL RETURN THE REVIEWED DOCUMENT, CONTAINING ALL CORRECTION AND COMMENT MARKS. IN PDF FORMAT VIA EMAIL. ALL EMAILED SUBMITTALS SHALL BE NO LARGER THAN 5MB IN SIZE IN ORDER TO ENSURE DELIVERY THROUGH ALL EMAIL SERVERS.

01300-12
PRODUCT SAMPLES: SUBMIT 3 FULL SIZE, FULLY FABRICATED SAMPLES CURED AND FINISHED AS SPECIFIED AND PHYSICALLY IDENTICAL WITH THE MATERIAL OR PRODUCT PROPOSED. SAMPLES INCLUDE PARTIAL SECTIONS OR MANUFACTURED OR FABRICATED COMPONENTS, CUTS OR CONTAINERS OF MATERIALS, COLOR RANGE SETS, AND SWATCHES SHOWING COLOR, TEXTURE AND PATTERN.

01300-13
PRODUCT ASSEMBLY SAMPLES: SUBMIT 1 SAMPLE FOR THOSE SUBMITTALS ILLUSTRATING ASSEMBLY DETAILS, WORKMANSHIP, FABRICATION TECHNIQUES, CONNECTIONS, OPERATION AND SIMILAR CHARACTERISTICS.

01300-14
SHOP DRAWINGS SHALL SHOW COORDINATION WITH ASSOCIATED ADJACENT TRADES. FAILURE TO DO SO SHALL BE GROUNDS FOR REJECTION OF THE SHOP DRAWINGS. SUBMIT 1 COPY OF SHOP DRAWINGS IN PDF FORMAT VIA EMAIL TO THE ARCHITECT. THE ARCHITECT WILL REVIEW AND WILL RETURN THE REVIEWED DOCUMENT, CONTAINING ALL CORRECTION AND COMMENT MARKS, IN PDF FORMAT VIA EMAIL. ALL EMAILED SUBMITTALS SHALL BE NO LARGER THAN 5MB IN SIZE TO ENSURE DELIVERY THROUGH ALL EMAIL SERVERS. FULL SIZE PDF DOCUMENTS WILL BE ACCEPTED IN PAPER SIZES UP TO 30"x42".

01300-15
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL FEES AND EXPENSES TO BE PAID TO ASD IN THE EVENT THAT MORE THAN 2 FINAL INSTRUCTIONS AND CORRECTING PUNCH LISTS ARE REQUIRED TO COMPLETE THE WORK. THE COST OF THE ADDITIONAL FEES AND EXPENSES SHALL BE PAID BY THE CONTRACTOR AND SHALL BE DEDUCTED FROM THE CONTRACTOR'S PAY APPLICATION. FEES AND EXPENSES SHALL INCLUDE NORMAL HOURLY BILLING RATES, REPRODUCTION AND TRANSPORTATION COSTS.

01300-16
SAMPLES, SHOP DRAWINGS AND PRODUCT DATA REQUIRED TO BE SUBMITTED ARE LISTED ON THE SUBMITTAL SCHEDULE.

SUBMITTAL SCHEDULE	SHOP DWGS	SAMPLES	LITERATURE	OTHER
MILLWORK	X	X		
DOORS AND FRAMES	X	X		SCHEDULE
HARDWARE	X	X	X	SCHEDULE
PAINT		X		
WALLCOVERING		X		
CEILING TILE		X	X	
WALL BASE		X		
FLOORING (CARPET, TILE, ETC.)		X		
FABRIC WALL PANELS	X	X	X	
MECHANICAL		X		
ELECTRICAL			X	
LIGHTING			X	
POWER			X	
COVER PLATES		X		
SWITCHES		X		
OUTLETS		X		
GLAZING		X	X	
APPLIANCES			X	
FIRE EXTINGUISHER CABINETS			X	
PROJECTION SCREENS			X	
PLUMBING			X	
SPRINKLER SYSTEM	X			

SECTION 01405 GENERAL ENVIRONMENTAL REQUIREMENTS

01405-1
SUSTAINABILITY GOALS FOR THE PROJECT WILL FOLLOW THE BEST PRACTICES OF LEED FOR COMMERCIAL INTERIORS.

01405-2
THE TENANT HAS ESTABLISHED THE FOLLOWING ENVIRONMENTAL GOALS FOR THE PROJECT. NOTIFY TENANT AND ARCHITECT IF CONFLICTS WITH PERFORMANCE OF THE WORK AND ENVIRONMENTAL GOALS. THIS SPECIFICATION IS NOT INTENDED TO LIMIT ALTERNATIVE MEANS OF ACHIEVING THESE GOALS. SUGGESTIONS AND INPUT FROM THE CONTRACTOR(S) FOR IMPLEMENTING THESE GOALS ARE ENCOURAGED.
A. USE RESOURCES EFFICIENTLY. THE CONSTRUCTION, OPERATION AND ULTIMATELY REUSE OR REMOVAL OF THE BUILDING SHOULD BE OPTIMIZED TO ELIMINATE UNNECESSARY USE OF ENERGY, WATER AND RAW MATERIALS.
B. PROVIDE A HEALTHY AND PRODUCTIVE INDOOR ENVIRONMENT.
C. ENHANCE, RESTORE, AND PROTECT THE GLOBAL ENVIRONMENT.
1. MINIMIZE THE RELEASE OF CARBON DIOXIDE (CO2) FROM FUELS BURNED ON SITE OR FUELS BURNED OFF SITE TO SUPPLY ELECTRICITY TO THE BUILDING.
2. AVOID THE RELEASE OF OZONE-DEPLETING COMPOUNDS, SUCH AS HCFCs FROM REFRIGERANTS OR FOAM INSULATION MATERIALS.
3. SELECT BUILDING MATERIALS THAT, BASED ON AN OVERALL LIFE-CYCLE ASSESSMENT, ARE THE LEAST DAMAGING TO THE ENVIRONMENT IN THEIR EXTRACTION, PROCESSING, USE, AND ULTIMATE DISPOSAL.

01405-3
MATERIAL SELECTION AND CONSTRUCTION PROCESS GOALS. IN SUPPORT OF THE OVERALL GOALS LISTED ABOVE THE FOLLOWING HAVE BEEN IDENTIFIED FOR THE MATERIAL SELECTION AND CONSTRUCTION PROCESS. THESE ARE ALSO GENERAL IN NATURE AND SHOULD BE CONSIDERED AS A GUIDELINE. IN THE EVENT OF A CONFLICT, ANY SPECIFIC REQUIREMENTS IN TECHNICAL SPECIFICATION SECTIONS TAKE PRECEDENCE. TRADEOFFS AND COMPROMISES ARE INEVITABLE IN THE PURSUIT OF THESE GOALS, BUT EVERYONE WORKING ON THE PROJECT IS EXPECTED TO TAKE ALL REASONABLE ACTIONS TO FURTHER THESE GOALS. NOTIFY TENANT AND ARCHITECT OF ANY PERFORMANCE REQUIREMENTS THAT CONFLICT UNNECESSARILY WITH THESE GOALS.

- A. USE RESOURCES EFFICIENTLY
- USE CONSTRUCTION PRACTICES THAT ACHIEVE THE MOST EFFICIENT USE OF RESOURCES AND MATERIALS.
 - RECYCLE OR REUSE JOB-SITE WASTE.
 - PROVIDE MATERIALS THAT CAN BE REUSED.
 - PROVIDE SALVAGED, REFURBISHED OR REUSED MATERIALS WHERE POSSIBLE W/O COMPROMISING QUALITY OF WORK.
 - PROVIDE MATERIALS THAT ARE REPLACEABLE, RENEWABLE, OR CAN BE REPLENISHED.
- B. PROVIDE MATERIALS WITH THE LONGEST USABLE LIFE.
- PROVIDE MATERIALS THAT CAN BE REUSED.
 - PROVIDE MATERIALS WITH THE LEAST BURDENSOME MAINTENANCE REQUIREMENTS.
- C. TENANT SPACE WILL BE CREATED HEALTHY FOR OCCUPANTS.
- PROVIDE LOW-VOC PRODUCTS AND MATERIALS.
 - ALL MAINTENANCE REQUIREMENTS SHALL USE LOW-VOC PRODUCTS AND METHODS.
 - MECHANICAL EQUIPMENT WILL PROVIDE FRESH AIR AND WILL NOT TRAP WATER OR POLLUTANTS.
- D. USE ENERGY EFFICIENTLY.
- PROVIDE MATERIALS THAT SAVE ENERGY DURING BUILDING OPERATIONS.
 - PROVIDE PRODUCTS AND EQUIPMENT THAT SAVE ENERGY DURING BUILDING OPERATIONS.
- E. USE WATER EFFICIENTLY.
- USE CONSTRUCTION PRACTICES THAT ACHIEVE THE MOST EFFICIENT USE OF WATER.
 - PROVIDE WATER-CONSERVING APPLIANCES AND EQUIPMENT.
- F. PROVIDE MATERIALS THAT GENERATE THE LEAST AMOUNT OF POLLUTION. CONSIDER POLLUTION AND TOXINS GENERATED DURING HARVESTING, MINING, MANUFACTURING, TRANSPORT, INSTALLATION, USE, AND DISPOSAL.

01405-4
CONTRACTOR SHALL DESIGNATE AN ON-SITE PARTY (OR PARTIES) RESPONSIBLE FOR INSTRUCTING WORKERS AND OVERSEERS THE ENVIRONMENTAL GOALS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE COPIES OF THE ENVIRONMENTAL GOALS TO THE JOB-SITE FOREMAN, EACH SUBCONTRACTOR, THE OWNER, AND THE ARCHITECT. ENVIRONMENTAL GOALS SHALL BE DISCUSSED AT THE FOLLOWING MEETINGS:
A. PRE-BID MEETING
B. PRE-CONSTRUCTION MEETING
C. REGULAR JOB-SITE MEETINGS

SECTION 01524 CONSTRUCTION WASTE MANAGEMENT

01524-1
THE CONTRACTOR SHALL CREATE AND IMPLEMENT A WASTE MANAGEMENT PLAN TO REDUCE AND RECYCLE CONSTRUCTION WASTE.

01524-2
CONSTRUCTION WASTE MANAGEMENT GOALS FOR THE PROJECT:
A. SEPARATE RECYCLE AS MANY OF THE WASTE MATERIALS AS ECONOMICALLY FEASIBLE.
B. DIVERSION GOALS: A MINIMUM OF 50% OF TOTAL PROJECT WASTE SHALL BE DIVERTED FROM LANDFILL.
01. CLEAN DIMENSIONAL WOOD, PALLET WOOD. NOTE WOOD SHALL BE SORTED BY TYPE AND SIZE FOR SALVAGE. WOOD UNSUITABLE FOR SALVAGE MAY BE CHIPPED OR SHREDED FOR USE AS GROUND COVER, MULCH, COMPOST, PULP, OR PROCESS FUEL. DO NOT CHIP OR SHRED STAINED, PAINTED, OR TREATED WOOD. SALVAGED WOOD MAY BE SUITABLE FOR MANUFACTURING OF PARTICLEBOARD AND OTHER COMPOSITE WOOD PRODUCTS IN SOME LOCATIONS. DAMAGED WOOD MAY BE USED AS BRACING, BLOCKING, ETC.

- PLYWOOD, OSB, AND PARTICLEBOARD
- CONCRETE
- CARDBOARD, PAPER, PACKAGING
- METALS
- GYPSUM DRYWALL (UNPAINTED); NOTE: ONLY CLEAN, UNPAINTED, NON-BIOCIDIE-TREATED, GYPSUM BOARD MAY BE RECYCLED INTO NEW DRYWALL.
- PAINT
- GLASS
a. SEPARATE TEMPERED GLASS FOR USE AS AGGREGATE OR NON-STRUCTURAL FILL.
- PLASTICS
- CARPET
a. ARRANGE FOR CARPET MANUFACTURER TO TAKE BACK REMOVED PRODUCTS FOR REUSE OR RECYCLING.
b. SET ASIDE AND PROTECT OFF CUTS AND REMAINDER GREATER THAN 1 SQ. YD. FOR REUSE BY TENANT OR NONPROFIT ORGANIZATIONS SUCH AS HABITAT FOR HUMANITY
- BEVERAGE CONTAINERS
- BUILDING COMPONENTS AND FIXTURES: SALVAGE, DOORS, CABINETS, HARDWARE, ELECTRICAL AND PLUMBING FIXTURES. PORCELAIN PLUMBING FIXTURES UNSUITABLE FOR SALVAGE MAY BE CRUSHED FOR FILL.

01524-3
PRIOR TO ANY WASTE REMOVAL, THE CONTRACTOR SHALL SUBMIT TO THE CLIENT A WASTE MANAGEMENT PLAN. THE PLAN SHALL CONTAIN THE FOLLOWING:
A. DESIGNATION OF THE PARTY WHO WILL IMPLEMENT THE PLAN.
B. ANALYSIS OF THE ESTIMATED JOB-SITE WASTE TO BE GENERATED, INCLUDING TYPES AND QUANTITIES
C. PROPOSED ALTERNATIVES TO LANDFILLING; A LIST OF EACH MATERIAL PLANNED TO BE SALVAGED OR RECYCLED DURING THE COURSE OF THE PROJECT AND THE PROPOSED DESTINATION OF EACH MATERIAL.

01524-4
SUBMIT MONTHLY, A WASTE MANAGEMENT PROGRESS REPORT. THE REPORT SHALL CONTAIN THE FOLLOWING INFORMATION:
A. PROJECT TITLE, NAME OF COMPANY COMPLETING REPORT, AND DATES OF PERIOD COVERED BY THE REPORT.
B. AMOUNT (IN TONS OR CUBIC YARDS) OF TOTAL WASTE GENERATED
C. FOR EACH MATERIAL, RECYCLED OR SALVAGED FROM THE PROJECT, PROVIDE THE FOLLOWING:
1. AMOUNT (IN TONS OR CUBIC YARDS)
2. DATE(S) REMOVED FROM THE JOB SITE
3. RECEIVING PARTY
4. COST: B/N RENTAL, HAULING, AND FACILITY FEES
5. WHAT WAS DONE WITH THE MATERIAL
D. INCLUDE LEGIBLE COPIES OF ON-SITE LOGS, MANIFESTS, WEIGHT TICKETS, AND RECEIPTS. MANIFESTS SHALL BE FROM RECYCLING AND/OR DISPOSAL SITE OPERATORS WHO CAN LEGALLY ACCEPT THE MATERIALS FOR THE PURPOSE OF REUSE, RECYCLING, OR DISPOSAL.
E. AMOUNT (IN TONS OR CUBIC YARDS) MATERIAL DISPOSED OF TO LANDFILL.

01524-5
WASTE MANAGEMENT PLANS AND IMPLEMENTATION SHALL BE DISCUSSED AT THE FOLLOWING MEETINGS:
A. PRE-BID MEETING
B. PRE-CONSTRUCTION MEETING
C. REGULAR JOB-SITE MEETINGS

01524-6
IMPLEMENT WASTE MANAGEMENT PLAN BY PROVIDING THE FOLLOWING:
A. COORDINATE WASTE MATERIALS HANDLING AND SEPARATION FOR ALL TRADES, AND DOCUMENT RESULTS OF THE WASTE MANAGEMENT PLAN.
B. PROVIDE SEPARATION, HANDLING, TRANSPORTATION, RECYCLING, SALVAGE, AND LANDFILLING FOR ALL DEMOLITION AND WASTE MATERIALS.
C. DESIGNATE A SPECIFIC AREA FOR SEPARATION OF MATERIAL FOR SALVAGE AND RECYCLING. RECYCLING AND WASTE BINS AREAS ARE TO BE KEPT NEAT AND CLEAN AND CLEARLY MARKED IN ORDER TO AVOID CONTAMINATION OR MIXING MATERIALS.
D. MAINTAIN AN ON-SITE LOG, WHICH INCLUDES FOR EACH LOAD OF MATERIALS REMOVED FROM SITE: TYPE OF MATERIAL, LOAD VOLUME AND/OR WEIGHT, RECYCLING / HAULING SERVICE, DATE ACCEPTED BY THE SERVICE OR LANDFILL, AND FACILITY FEE.
E. DO NOT HANDLE, SEPARATE, STORE, SALVAGE, OR RECYCLE HAZARDOUS MATERIALS WITH OTHER MATERIALS. FOLLOW MATERIAL-SPECIFIC INSTRUCTIONS ON ANY HAZARDOUS MATERIALS. CONTACT PROJECT MANAGER OR ARCHITECT IF NO INSTRUCTIONS ARE EVIDENT.

SECTION 06000 MILLWORK

06000-1 EXCEPT AS OTHERWISE SHOWN OR SPECIFIED, COMPLY WITH PROVISIONS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) QUALITY STANDARDS, MOST RECENT EDITION. WORK SHALL BE PERFORMED IN THE HIGHEST GRADE APPLICABLE.

- 06000-2**
SPECIFIC ITEMS:
A. STANDING AND RUNNING TRIM WITH OPAQUE FINISH- AWI STANDARD 300
B. CASEWORK WITH TRANSPARENT FINISH- AWI STANDARD 400 & 400B
C. PLASTIC LAMINATE CLAD CABINETS- AWI STANDARD 400 & 400B
D. ARCHITECTURAL COUNTERTOPS- AWI STANDARD 400 & 400C
E. LUMBER- AWI STANDARD 100
F. PANELING- AWI STANDARD 500
G. SHELVING- AWI STANDARD 600, CUSTOM GRADE
H. MISCELLANEOUS WORK- AWI STANDARD 700
I. ARCHITECTURAL FLUSH DOORS- AWI STANDARD 1300
J. STILE AND RAIL DOORS- AWI STANDARD 1400
K. FACTORY FINISHING- AWI STANDARD 1500
L. INSTALLATION OF ARCHITECTURAL WOODWORK- AWI STANDARD 1700

06000-3
CABINET CONSTRUCTION STYLE SHALL BE "FLUSH OVERLAY" AS PER AWI STANDARDS.

06000-4
ALL VENEERS SHALL BE AWI PREMIUM GRADE. ALL TRANSPARENT AND SEMI-TRANSPARENT MILLWORK SHALL BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE WORK SHALL BE AWI CUSTOM GRADE. HOWEVER, PLASTIC LAMINATE EDGE BANDING SHALL BE APPLIED PRIOR TO FACE LAMINATE. THIS REQUIREMENT SUPERSEDES AWI STANDARDS.

06000-5
MATCHING PLASTIC PRODUCTS PRODUCES HAZARDOUS DUST. PROTECT SURROUNDING AREAS FROM DUST. PROTECT SURROUNDING AREAS FROM DUST. WEAR APPROPRIATE PROTECTION.

06000-6
REFER TO FINISH LEGEND FOR SPECIFIED WOOD VENEER SPECIES, CUT AND FLITCH NUMBER. CONFIRM WITH ARCHITECT OF THE FOLLOWING:
VENEERS LEAVES SHALL BE LAID UP ON PANELS AS (BOOK OR SLIP OR RANDOM) MATCHED. THE FACE OF EACH PANEL SHALL BE (BALANCED OR CENTER BALANCED). VERTICAL MATCHING OF ADJACENT VENEER LEAVES SHALL BE (BOOK OR SLIP END MATCHED). VENEERED PANELS SHALL BE (SEQUENCED OR BLUEPRINT) MATCHED. SOFFITS RECEIVING VENEER SHALL BE (WATERFALL) MATCHED AND COORDINATED WITH ALL ADJACENT VENEERED SURFACES. SEMI-TRANSPARENT AND TRANSPARENT FINISHES SHALL BE AWI #2, CATALYZED LACQUER. UNLESS NOTED OTHERWISE, SHEEN LEVEL SHALL BE MEDIUM RUBBED EFFECT, 40 DEGREE. STAIN COLOR TO MATCH THE ARCHITECT'S SAMPLE. ALL STAIN GRADE WOOD SHALL BE SANDED USING 150 GRIT GARNET OPEN COAT. THIS REQUIREMENT SUPERSEDES AWI STANDARDS.

06000-7
PROVIDE 3 FINISHED SAMPLES OF EACH TYPE OF TRIM AND WOOD VENEER TO BE USED ON THE PROJECT.

06000-8
INSTALL STANDING AND RUNNING TRIM WITH MINIMUM NUMBER OF JOINTS POSSIBLE. USING FULL LENGTH PIECES. COPE AT RETURNS AND MITER AT CORNERS. SCRIBE SMOOTH AT JAMB CONDITIONS. NO EXPOSED CUTS WILL BE ACCEPTABLE.

06000-9
DO NOT DELIVER OR INSTALL MILLWORK UNTIL CONDITIONS FOR TEMPERATURE AND RELATIVE HUMIDITY HAVE BEEN STABILIZED AND WILL BE MAINTAINED IN STORAGE AND INSTALLATION AREAS DURING THE REMAINDER OF CONSTRUCTION PERIOD TO COMPLY WITH THE AWI QUALITY STANDARD SECTION 100-G-4 & 100-T-11 "MOISTURE CONTENT" APPLICABLE TO THE PROJECT'S GEOGRAPHICAL LOCATION. CONDITION MILLWORK TO AVERAGE PREVAILING HUMIDITY IN INSTALLATION AREA PRIOR TO HANGING.

06000-10
PROTECT WOOD PRODUCTS AND MATERIALS FROM DAMAGE AND MOISTURE DURING DELIVERY, INSTALLATION, AND USE.

06000-11
REFLECTED SHOP DRAWINGS SHOWING THE LOCATION OF EACH ITEM, DIMENSIONED PLANS, ELEVATIONS, SECTIONS, LARGE SCALE DETAILS, ATTACHMENT DEVICES AND ALL OTHER COMPONENTS.

06000-12
CHECK ACTUAL DIMENSIONS OF OTHER CONSTRUCTION WHERE MILLWORK MUST FIT BY ACCURATE FIELD MEASUREMENTS PRIOR TO FABRICATION OF THE WORK.

06000-13
TO THE GREATEST DEGREE POSSIBLE, FINISH ARCHITECTURAL WOODWORK AT THE FACTORY OR MILLWORK SHOP. DEFER ONLY FINAL TOUCH UP, CLEANING AND POLISHING UNTIL AFTER INSTALLATION.

06000-14
INSTALL MILLWORK PLUMB, LEVEL AND STRAIGHT. SHIM AS REQUIRED WITH CONCEALED SHIMS. PROVIDE A MAXIMUM TOLERANCE OF 1/8" IN 8'-0" FOR PLUM AND LEVEL. SCRIBE AND CUT MILLWORK TO FIT ADJOINING WORK AND REFINISH CUT SURFACES.

06000-15
ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENCUMBERED OPERATION.

06000-16
JOINTS FOR STONE TOPS SHALL BE BUTT JOINTS WITH MINIMAL SEALANT EXPOSED.

06000-17
CABINET HARDWARE:
A. HARDWARE TO COMPLY WITH ANSI A156.9, AMERICAN NATIONAL STANDARD FOR CABINET HARDWARE.
B. HINGES SHALL BE PROPER NUMBER PER LEAF AS NOTED IN MANUFACTURER'S LOAD CHARTS, BUT NOT LESS THAN 3 PER LEAF. PROVIDE FULL OR HALF OVERLAY AS REQUIRED. PROVIDE SPRING LOADED HINGES FOR EASE OF DOOR OPERATION. BACK OF DESIGN (SEE PIPES, CABLE JACKETING, OR PIPE INSULATION MATERIALS, OR OPENINGS CREATED BY DEFLECTION OF SHEET METAL DUE TO THERMAL EXPANSION (ELECTRICAL OR MECHANICAL DUCTWORK).
C. DRAWER GLIDES SHALL BE K & V OR EQUAL BY GRANT OR ACCURIDE OF CORRECT SIZE FOR DRAWER DEPTH.
D. SIDE PAIR 100 LB. RATED BALL BEARING ROLLERS 1/2" WIDE UNITS W/FULL EXTENSION.
E. SILENCERS SHALL BE 1/4" DIAMETER RUBBER.

SECTION 07800 FIRE STOPPING

07800-1
FIRE STOPPING SHALL COMPLY WITH THE STANDARDS REQUIRED BY ASTM E814-88 "STANDARD TEST METHOD FOR FIRE TESTS OF THROUGH-PENETRATION FIRE STOPS" AND SHALL COMPLY WITH UL 1479 "FIRE TESTS OF THROUGH-PENETRATOR FIRESTOPS."

07800-2
FIRE STOPPING SYSTEMS SHALL CONFORM TO BOTH FLAME (F) AND TEMPERATURE (T) RATINGS AS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED AND ACCEPTED TEST AGENCIES PER ASTM E814 AND UL 1479 FIRE TESTS IN A CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS. THE FIRE RATING MUST BE A MINIMUM OF ONE HOUR, BUT NOT LESS THAN THE FIRE RESISTANCE RATING OF THE ASSEMBLY BEING PENETRATED. T RATING, WHEN REQUIRED BY CODE AUTHORITY, SHALL BE BASED ON MEASUREMENT OF THE TEMPERATURE RISE ON PENETRATING ITEMS. THE FIRE TEST SHALL BE CONDUCTED WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01" OF WATER COLUMN.

07800-3
FIRE STOPPING SHALL BE INSTALLED IN ALL OPENINGS IN FIRE-RATED FLOOR AND WALL ASSEMBLIES, BOTH BLANK (EMPTY) AND THOSE ACCOMMODATING PENETRATING ITEMS SUCH AS CABLES, CONDUITS, PIPES, DUCTS, ETC.

07800-4
FIRE STOPPING MATERIALS AND SYSTEMS SHALL BE CAPABLE OF CLOSING OR FILLING THROUGH OPENINGS CREATED BY THE BURNING OR MELTING OF WIRE, CABLE, JACKETING, OR PIPE INSULATION MATERIALS, OR OPENINGS CREATED BY DEFLECTION OF SHEET METAL DUE TO THERMAL EXPANSION (ELECTRICAL OR MECHANICAL DUCTWORK).

07800-5
FIRE STOPPING MATERIAL SHALL BE ASBESTOS-FREE AND SHALL NOT INCORPORATE NOR REQUIRE THE USE OF HAZARDOUS SOLVENTS.

07800-6
FIRE STOPPING MATERIALS SHALL NOT SHRINK UPON DRYING AS EVIDENCED BY CRACKING OR PULLING BACK FROM CONTACT SURFACES.

07800-7
DO NOT USE ANY FIRE STOP PRODUCTS WHICH, AFTER CURING, DISSOLVE IN WATER.

07800-8
SUBMIT DOCUMENT FROM FIRE STOP MANUFACTURER WHEREIN MANUFACTURER RECOGNIZES AND APPROVES INSTALLER FOR SAID MANUFACTURER'S FIRE STOP PRODUCTS.

07800-9
FIRE STOP MATERIAL SHALL BE DELIVERED IN THE MANUFACTURER'S ORIGINAL, UNOPENED CONTAINERS OR PACKAGES WITH THE MANUFACTURER'S NAME, PRODUCT IDENTIFICATION, LOT NUMBER, UL LABEL, AND MIXING AND INSTALLATION INSTRUCTIONS AS APPLICABLE.

07800-10
MATERIALS SHALL BE STORED IN THE ORIGINAL UNOPENED CONTAINERS OR PACKAGES, AND UNDER CONDITIONS RECOMMENDED BY THE MANUFACTURER.

07800-11
EXAMINE THE AREAS AND CONDITIONS WHERE FIRE STOPS ARE TO BE INSTALLED AND NOTIFY THE ARCHITECT OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED BY THE CONTRACTOR IN A MANNER ACCEPTABLE.

07800-12
INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR INSTALLATION AND, WHEN APPLICABLE, CURING IN ACCORDANCE WITH TEMPERATURE AND HUMIDITY. CONFORM TO VENTILATION AND SAFETY REQUIREMENTS.

07800-13
INSTALLATION OF FIRE STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.

07800-14
CONTRACTOR SHALL COORDINATE FIRE STOPPING WORK AS REQUIRED WITH THE WORK OF OTHER TRADES. FIRE STOPPING SHALL PRECEDE GYPSUM BOARD FINISHING.

07800-15
WHERE FIRE STOPPING IS INSTALLED AT LOCATIONS WHICH REMAIN EXPOSED TO THE COMPLETED WORK, PROTECTION SHALL BE PROVIDED AS NECESSARY TO PREVENT DAMAGE TO ADJACENT SURFACES AND FINISHES, AND PROTECT AS NECESSARY AGAINST DAMAGE FROM OTHER CONSTRUCTION ACTIVITIES.

07800-16
INSTALLATION OF FIRE STOPPING SYSTEMS SHALL BE PERFORMED BY A CONTRACTOR TRAINED OR APPROVED BY THE FIRE STOP MANUFACTURER.

07800-17
LEAVE FINISHED WORK IN NEAT, CLEAN CONDITION, WITH NO EVIDENCE OF SUIPOVERS OR DAMAGE TO ADJACENT SURFACES.



55 Ivan Allen Jr. Blvd.
Suite 100
Atlanta, GA 30308
T 404.688.3318
F 404.688.2255
www.asdsky.com

Georgia Institute of Technology VETERAN'S RESOURCE CENTER

901 ATLANTIC DRIVE
ATLANTA GA 30318



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SECTION 08100 HOLLOW METAL DOOR FRAMES

08100-1 PROVIDE AND INSTALL HOLLOW METAL COMPLYING WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING PUBLICATIONS:
A. AIA PAMPHLET NO. 80
B. NBHA (NATIONAL BUILDERS HARDWARE ASSOCIATION)
C. NFPA STANDARD NO. 80
D. P.5 (PRODUCT STANDARD) 466
E. SDI (STEEL DOOR INSTITUTE) NO. 100 AND 105
F. UL STANDARD FOR SAFETY NO. 63
G. UL GUIDE 120 I.D.O.
H. NAAM STANDARD CHM-1

08100-2 FIRE-RATED DOOR ASSEMBLY UNITS SHALL COMPLY WITH NFPA NO. 80. THEY SHALL BE IDENTICAL TO DOOR AND FRAME ASSEMBLIES WHOSE FIRE RESISTANCE CHARACTERISTICS HAVE BEEN DETERMINED PER ASTM E 152 AND WHICH ARE LABELED AND LISTED BY UL, FACTORY MUTUAL, WARNOCK HERSEY, OR OTHER TESTING AND INSPECTING ORGANIZATIONS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

08100-3 PROVIDE FIRE-RATED HOLLOW METAL FRAMES INVESTIGATED AND TESTED AS A FIRE DOOR ASSEMBLY, COMPLETE WITH TYPE OF FIRE DOOR HARDWARE TO BE USED. IDENTIFY EACH FIRE DOOR FRAME WITH UL LABELS, INDICATING APPLICABLE FIRE RATING OF FRAME.

08100-4 PROVIDE METAL FRAMES FOR DOORS OF TYPES AND STYLES AS SHOWN ON DRAWINGS AND SCHEDULES. CONCEAL FASTENINGS UNLESS OTHERWISE NOTED. FABRICATE FRAMES OF MINIMUM 18-GAUGE COLD-ROLLED STEEL.

08100-5 FRAMES SHALL COMPLY WITH ASTM A366. FURNISH FRAMES WITH FIXED STRIPS BUTTED. USE ROLLED SECTIONS FOR FIRE-RATED OPENINGS. PROVIDE UL ANCHORS FOR FIRE-RATED OPENINGS, STRAP ANCHORS AT WOOD OR METAL STUDS, AND OTHER TYPES AS INDICATED OR AS APPROVED FOR CONDITIONS OF USE.

08100-6 FRAMES SHALL BE FABRICATED WITH WELDED MITERED CORNERS.

08100-7 PROVIDE HOLLOW METAL WORK AS MANUFACTURED BY ONE OF THE FOLLOWING:
A. ALIUED STEEL PRODUCTS
B. AMERICAN STEEL PRODUCTS CORP.
C. AMERICAN WELDS AND MFG. CO.
D. GATEWAY METAL PRODUCTS
E. OVERLY MFG. CO.
F. TEX-STEEL CORPORATION
G. TRUSSBILT

08100-8 SUBMIT DATA FOR EACH TYPE OF FRAME SPECIFIED, INCLUDING DETAILS OF CONSTRUCTION, MATERIALS, DIMENSIONS, HARDWARE PREPARATION, CORE, LABEL COMPLIANCE, SOUND RATINGS, PROFILES, AND FINISHES.

08100-9 SUBMIT MANUFACTURER'S CERTIFICATION FOR EACH CUSTOM STEEL FIRE-RATED DOOR FRAME WHICH IS LARGER THAN THE SIZE LIMITATIONS ESTABLISHED BY NFPA AND UL FOR LABELING. STATE THAT THE UNIT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH ALL THE APPLICABLE REQUIREMENTS FOR UL CONSTRUCTION.

08100-10 SUBMIT SHOP DRAWINGS SHOWING FABRICATION AND INSTALLATION OF STANDARD METAL FRAMES. INCLUDE DETAILS OF EACH FRAME TYPE, ELEVATIONS OF EACH DOOR DESIGN TYPE, CONDITIONS AT OPENINGS, DETAILS OF CONSTRUCTION, LOCATION, AND INSTALLATION REQUIREMENTS OF DOOR AND FRAME HARDWARE AND REINFORCEMENTS, AND DETAILS OF JOINTS AND CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS.

08100-11 SUBMIT SCHEDULE OF DOORS AND FRAMES USING SAME REFERENCE NUMBERS FOR DETAILS OPENINGS AS THOSE ON CONTRACT DRAWINGS.

08100-12 FRAMES SHALL BE DELIVERED CARDBOARD-WRAPPED OR CRATED TO PROVIDE PROTECTION DURING TRANSIT AND JOB STORAGE. PROVIDE ADDITIONAL PROTECTION TO PREVENT DAMAGE TO FINISH OF FACTORY-FINISHED FRAMES.

08100-13 FRAMES SHALL BE INSPECTED UPON DELIVERY FOR DAMAGE. MINOR DAMAGES MAY BE REPAIRED PROVIDED REFINISHED ITEMS ARE EQUAL IN ALL RESPECTS TO NEW WORK AND ACCEPTABLE TO ARCHITECT. OTHERWISE, REMOVE AND REPLACE DAMAGED ITEMS AS DIRECTED.

08100-14 FRAMES SHALL BE STORED AT BUILDING SITE UNDER COVER. PLACE UNITS ON MINIMUM FOUR INCH (4") HIGH WOOD BLOCKING. AVOID USE OF NON-VENATED PLASTIC OR CANVAS SHELTERS WHICH COULD CREATE HUMIDITY CHAMBERS. IF CARDBOARD WRAPPERS ON FRAMES BECOME WET, REMOVE CARTON/CARDBOARD IMMEDIATELY. PROVIDE 1/4" SPACES BETWEEN STACKED FRAMES TO PROMOTE AIR CIRCULATION.

08100-15 FABRICATE HOLLOW METAL UNITS TO BE RIGID, NEAT IN APPEARANCE, AND FREE FROM DEFECTS, WARP, OR BUCKLE. ACCURATELY FORM METAL TO REQUIRED SIZES AND PROFILES. WHEREVER PRACTICAL, FIT AND ASSEMBLE UNITS IN THE MANUFACTURER'S PLANT. CLEARLY IDENTIFY WORK THAT CANNOT BE PERMANENTLY FACTORY-ASSEMBLED BEFORE SHIPMENT TO ASSURE PROPER ASSEMBLY AT PROJECT SITE.

08100-16 EXPOSED JOINTS SHALL BE WELDED CONTINUOUSLY, GRIND, DRESS, AND MAKE SMOOTH, FLUSH, AND INVISIBLE. METALLIC FILLER TO CONCEAL MANUFACTURING DEFECTS IS NOT ACCEPTABLE.

08100-17 EXPOSED CONNECTIONS WITH HAIRLINE JOINTS SHALL BE ACCURATELY MACHINED, FILED, AND FITTED, UNLESS OTHERWISE NOTED.

08100-18 CONCEAL ALL FASTENINGS, UNLESS OTHERWISE NOTED. COUNTERSINK EXPOSED SCREWS USING FLAT PHILLIPS HEAD SCREWS.

08100-19 FRAMES SHALL BE PREPARED IN ACCORDANCE WITH FINAL DOOR HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY HARDWARE SUPPLIER. INSTALLER SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI A115 SERIES SPECIFICATIONS FOR DOOR AND FRAME PREPARATION FOR HARDWARE.

08100-20 PREPARE HOLLOW METAL UNITS TO RECEIVE MORTISED AND CONCEALED FINISH HARDWARE, INCLUDING CUTOUTS, REINFORCING, DRILLING, AND TAPPING IN ACCORDANCE WITH FINAL FINISH HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY HARDWARE SUPPLIER.

08100-21 REINFORCE HOLLOW METAL UNITS TO RECEIVE SURFACE-APPLIED HARDWARE, DRILLING OR TAPPING FOR SURFACE-APPLIED FINISH HARDWARE MAY BE DONE AT PROJECT SITE, THROUGH BOLTING WILL NOT BE PERMITTED.

08100-22 INSTALLER SHALL EXAMINE THE SUBSTRATE AND CONDITIONS UNDER WHICH HOLLOW METAL WORK IS TO BE INSTALLED. NOTIFY THE CONTRACTOR, IN WRITING, OF ANY CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF WORK.

08100-23 INSTALLER SHALL COMPLY WITH PROVISIONS OF S1-105 "RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES," UNLESS OTHERWISE NOTED.

08100-24 FIRE-RATED FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD NO. 80.

08100-25 EXCEPT ON WEATHER-STRIPPED FRAMES, DRILL STOPS SHALL BE DRILLED TO RECEIVE 3 SILENCERS ON STRIKE JAMBS OF SINGLE-DOOR FRAMES AND 2 SILENCERS ON HEADS OF DOUBLE-DOOR FRAMES.

08100-26 IN METAL STUD PARTITIONS, INSTALL AT LEAST THREE (3) WALL ANCHORS PER JAMB AT HINGE AND STRIKE LEVELS. IN CLOSED STEEL STUD PARTITIONS, ATTACH WALL ANCHORS TO STUDS WITH SCREWS.

08100-27 IMMEDIATELY AFTER ERECTION OF FRAMES, SAND SMOOTH ANY RUSTED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCHUP OF COMPATIBLE AIR-DRYING PRIMER.

SECTION 08120 ALUMINUM DOORS AND FRAMES

08120-1 SECTION INCLUDES
A. PREFINISHED ALUMINUM DOOR FRAMES FOR INTERIOR USE
B. PREFINISHED ALUMINUM FRAMING SYSTEMS FOR INTERIOR USE
C. PREFINISHED ALUMINUM GLASS DOORS FOR INTERIOR USE

08120-2 RELATED SECTIONS
A. SECTION 08211 FLUSH WOOD DOORS
B. SECTION 08710 DOOR HARDWARE
C. SECTION 08800 GLASS AND GLAZING

08120-3 REFERENCES
A. AAMA 603.8 - VOLUNTARY PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR PIGMENTED ORGANIC COATINGS ON EXTRUDED ALUMINUM
B. AAMA 607.1 - VOLUNTARY GUIDE SPECIFICATION AND INSPECTION METHODS FOR CLEAR ANODIZE FINISHES FOR ARCHITECTURAL ALUMINUM
C. AAMA 608.1 - VOLUNTARY GUIDE SPECIFICATION AND INSPECTION METHODS FOR ELECTROLYTICALLY DEPOSITED COLOR ANODIC FINISHED FOR ARCHITECTURAL ALUMINUM

08120-4 SUBMITTALS
A. SUBMIT UNDER PROVISIONS OF SECTION 01300
B. PRODUCT DATA, MANUFACTURER'S PRODUCT DATA INCLUDING FABRICATION METHODS AND INSTALLATION INSTRUCTIONS FOR EACH FRAME TYPE
C. SHOP DRAWINGS
1. PROVIDE ELEVATIONS OF EACH OPENING TYPE AND DETAILS AT EACH WALL TYPE AND TYPE OF GLAZING. INCLUDE ON ELEVATIONS ALL HARDWARE AND SECURITY ITEMS, DEMONSTRATING COORDINATION WITH HARDWARE SUPPLIER
2. PROVIDE STANDARD INSTALLATION DETAILS FOR TYPICAL ARCHITECTURAL CONDITIONS.
3. PROVIDE DETAILS ON CONNECTIONS TO SPECIAL CONSTRUCTION AND OTHER CUSTOM FEATURES
D. SELECTION SAMPLES, PROVIDE ALUMINUM CHIPS IN FULL RANGE MANUFACTURER'S STANDARD FINISHED FOR ARCHITECT'S COLOR SELECTION.
E. VERIFICATION SAMPLES, PROVIDE TWO SAMPLES OF ACTUAL PIECES OF PRODUCTS IN EACH FINISH SPECIFIED, EACH TYPE OF FRAMING MEMBER REQUIRED, NOT LESS THAN 6" SQUARE OR 6" LONG FOR LINEAR COMPONENTS.

08120-5 QUALITY ASSURANCE
A. MANUFACTURER, PROVIDE ALUMINUM FRAMES MANUFACTURED BY A SINGLE FIRM SPECIALIZING IN PRODUCTION OF THIS TYPE OF WORK FOR A MINIMUM OF FIVE YEARS.
B. INSTALLER, SHALL BE A FIRM WITH DOCUMENTED EXPERIENCE IN INSTALLING COMPONENTS OF THE TYPES SPECIFIED.
C. FIRE RATED ASSEMBLIES:
1. IN LOCATIONS WHERE FIRE RATED OPENINGS ARE SCHEDULED OR REQUIRED BY REGULATORY AGENCIES, PROVIDE FIRE RATED ALUMINUM FRAMES THAT HAVE BEEN TESTED AND CERTIFIED FOR SPECIFIED EXPOSURE BY AN AGENCY ACCEPTABLE TO GOVERNING AUTHORITIES.
2. PROVIDE LABELS PERMANENTLY FASTENED ON EACH FRAME THAT ARE WITHIN SIZE LIMITS ESTABLISHED BY NFPA AND THE TESTING AUTHORITY.
D. PROVIDE 45 MINUTE LABELS
E. PROVIDE LABELS FOR OPENINGS AS SCHEDULED ON THE DRAWINGS.

SECTION 08120 ALUMINUM DOORS AND FRAMES (CONTINUED)

08120-6 DELIVERY, STORAGE AND HANDLING
A. DELIVER COMPONENTS IN MFR'S STANDARD PROTECTIVE PACKAGING, PALLATED, CRATED OR BAND TOGETHER TO PROVIDE PROTECTION DURING TRANSIT AND STORAGE AT PROJECT SITE.
B. INSPECT FRAMES UPON DELIVERY FOR DAMAGE.
1. REPAIR MINOR DAMAGE TO POLYESTER FINISH BY USING AIR DRYING SPRAY ENAMEL OF MATCHING COLOR.
2. REPLACE FRAMES THAT CAN NOT BE SATISFACTORILY REPAIRED
C. STORE COMPONENTS AT PROJECT SITE UNDER COVER IN MFR'S PACKAGING AND AS NEAR AS POSSIBLE TO FINAL LOCATION UNTIL INSTALLATION. DO NOT USE COVERING MATERIAL THAT WILL CAUSE DISCOLORATION OF ALUMINUM FINISH.

08120-7 ENVIRONMENTAL REQUIREMENTS
A. DO NOT BEGIN INSTALLATION OF ALUMINUM FRAMES UNTIL AREA OF WORK HAS BEEN COMPLETELY ENCLOSED AND INTERIOR IS PROTECTED FROM THE ELEMENTS
B. MAINTAIN TEMPERATURE AND HUMIDITY IN AREAS OF INSTALLATION WITHIN REASONABLE LIMITS, AS CLOSE AS POSSIBLE TO FINAL OCCUPANCY STANDARDS. IF NECESSARY, PROVIDE ARTIFICIAL HEATING, COOLING AND VENTILATION TO MAINTAIN RECOMMENDED ENVIRONMENTAL CONDITIONS.

08120-8 MANUFACTURERS
A. THE DESIGN OF THE PROJECT HAS BEEN BASED ON PRODUCTS MANUFACTURED BY CUSTOM COMPONENTS, INC. 813-818-4206.

08120-9 MATERIALS
A. ALUMINUM, CONTROLLED ALLOY BILLETS OF 6063 T5, TO ASSURE COMPLIANCE WITH TIGHT DIMENSIONAL TOLERANCES AND MAINTAIN COLOR UNIFORMITY.
B. ALUMINUM PRODUCT MUST CONTAIN A MINIMUM OF 70% POST-INDUSTRIAL RECYCLED CONTENT.
C. COMPONENTS SHALL INCLUDE FRAME MEMBERS, EXTRUDED ALUMINUM SHAPES NOT LESS THAN 0.125 IN THICKNESS, REINFORCED AT HINGE & STRIKE LOCATIONS, CORNER BRACKETS, EXTRUDED ALUMINUM FASTENED WITH STAINLESS STEEL SCREWS; TRIM, EXTRUDED ALUMINUM NOT LESS THAN 0.02 IN THICKNESS, REMOVABLE SNAP-IN TYPE WITHOUT EXPOSED FASTENERS; GLAZING: 1/4" THICK, TEMPERED SAFETY GLASS.
D. FINISH SHALL BE CLEAR ANODIC COATING, AA-M122CA31 CLASS 1 MECHANICAL FINISH, NONSPECULAR WITH CHEMICAL MEDIUM MATTE ETCH, MEDIUM THICKNESS 0.6 MIL, PER AA D1A6-45.

08120-10 EXAMINATION
A. EXAMINE PROJECT CONDITIONS AND VERIFY THAT THE WORK OF THIS SECTION MAY PROPERLY COMMENCE. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
B. VERIFY WALL THICKNESS DOES NOT EXCEED STANDARD TOLERANCES ALLOWED BY SPECIFIED FRAME THROAT SIZES.

08120-11 INSTALLATION
A. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MFR'S INSTRUCTION AND APPROVED SHOP DRAWINGS.
B. STRICTLY ADHERE TO MAINTAINING SPECIFIED WALL THICKNESS TO INSURE DIMENSION DOES NOT EXCEED FRAME THROAT SIZE SPECIFIED. VERIFY THAT WALL SURFACES AND OPENINGS ARE READY TO RECEIVE FRAMES.
C. PERFORM CUTTING, FITTING, FORMING, DRILLING AND GRINDING OF FRAMES AS REQ'D FOR PROJECT CONDITIONS.
D. INSTALL FRAMES PLUMB, SQUARE, LEVEL AND SECURELY ANCHORED TO SUBSTRATES WITH FASTENERS RECOMMENDED BY FRAME MANUFACTURER. FRAMES SHALL BE ALIGNED TO RECEIVE DOORS.
E. INSTALL GLAZING IN GLAZING FRAMES. SET STOPS AND GLAZING GASKETS FLUSH WITH FRAME.
F. INSTALL PARTITION COMPONENTS IN THE LONGEST POSSIBLE LENGTHS, WITH NO COMPONENT LESS THAN 4 FEET. FASTEN TO SUSPENDED CEILING GRID AT 48 INCHES ON CENTER MAXIMUM, USING #6 SHEET METAL SCREWS OR OTHER FASTENERS APPROVED BY FRAME MANUFACTURER.
1. USE CONCEALED INSTALLATION CLIPS TO ASSURE THAT SPLICES AND CONNECTIONS ARE TIGHTLY BUTTED AND PROPERLY ALIGNED.
2. SECURE CLIPS TO MAIN STRUCTURAL COMPONENTS AND NOT TO SNAP-IN OR TRIM MEMBERS.
3. DO NOT USE SCREWS OR OTHER FASTENERS THAT WILL BE EXPOSED TO VIEW WHEN INSTALLATION IS **08120**-COMPLETE.
G. ALL TRIM JOINTS SHALL BE MITERED WITH TIGHT HAIRLINE JOINTS.
H. REPLACE COMPONENTS WITH DAMAGE TO EXPOSED FINISHES.
I. SEPARATE DISSIMILAR METALS TO PREVENT ELECTROLYTIC ACTION BETWEEN METALS.

08120-12 ADJUSTING AND CLEANING
A. CLEAN DOOR AND FRAME SURFACES PROMPTLY AFTER INSTALLATION, USING CLEANING METHODS RECOMMENDED BY FRAME MANUFACTURER AND IN ACCORDANCE WITH AAMA 609. DO NOT USE ABRASIVE, CAUSTIC OR ACID CLEANING AGENTS.
B. TOUCH UP MARRED AREAS SO THAT TOUCH-UP IS NOT VISIBLE FROM A DISTANCE OF 4 FEET. REMOVE AND REPLACE FRAMES THAT CAN NOT BE SATISFACTORILY ADJUSTED.

08120-13 PROTECTION
A. PROTECT PRODUCTS OF THIS SECTION FROM DAMAGE CAUSED BY SUBSEQUENT CONSTRUCTION UNTIL SUBSTANTIAL COMPLETION.
B. REPLACE DAMAGED OR DEFECTIVE COMPONENTS THAT CANNOT BE REPAIRED TO A CONDITION INDISTINGUISHABLE FROM UN-DAMAGED COMPONENTS.

SECTION 08200 WOOD DOORS

08200-1 QUALITY SHALL COMPLY WITH THE FOLLOWING STANDARDS:
08200-2 "INDUSTRY STANDARD (I.S.) FOR WOOD FLUSH DOORS," OF THE NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWWDA)

08200-3 "ARCHITECTURAL WOODWORK QUALITY STANDARDS" AND SECTION 1300 "ARCHITECTURAL FLUSH DOORS," OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) FOR GRADE OF DOOR, CORE CONSTRUCTION, FINISH AND OTHER REQUIREMENTS EXCEEDING THOSE OF THE NWMA STANDARD.

08200-4 DOORS SHALL COMPLY WITH REFERENCE AWI QUALITY STANDARD INCLUDING SECTION 1500, "FACTORY FINISHING." WOOD VENEERED DOORS WITH TRANSPARENT FINISH SHALL BE PREFINISHED FINISH HARDWARE SUPPLIER. TRANSPARENT FINISH SHALL COMPLY WITH REQUIREMENTS INDICATED FOR GRADE, FINISH SYSTEM, STAINING EFFECT AND SHEEN:
A. AWI GRADE: PREMIUM
B. SPECIES: AS LISTED IN FINISH SCHEDULE
C. VENEER LEAF MATCHING: (BALANCED OR CENTER BALANCED) AND (BOOK OR SLIP OR RANDOM), MATCHED
D. STAIN: MATCH ARCHITECT'S SAMPLE
E. FINISH: FILLED FINISH
F. SHEEN: 40% OR AS DETERMINED BY APPROVED SAMPLE.

08200-5 ALL WOOD DOORS SHALL BE MANUFACTURED TWO INCHES (2") LONGER THAN SHOWN ON DRAWINGS AND/OR SCHEDULES. BOTTOM OF DOOR ONLY WILL BE TRIMMED TO EACH OPENING FOR REQUIRED CLEARANCE.

08200-6 FIRE-RATED DOORS SHALL BE INSTALLED IN CORRESPONDING FIRE-RATED FRAMES IN ACCORDANCE WITH REQUIREMENTS OF NFPA NO. 80. PROVIDE UL LABEL ON EACH FIRE-RATED DOOR.

08200-7 FIRE RATED WOOD DOORS SHALL BE IDENTICAL IN MATERIALS AND CONSTRUCTION TO UNITS TESTED IN DOOR AND FRAME ASSEMBLIES PER ASTM E152 AND WHICH ARE LABELED AND LISTED FOR RATINGS INDICATED BY UL, WARNOCK HERSEY OR OTHER TESTING AND INSPECTION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

08200-8 PROVIDE PRODUCTS OF ONE OF THE FOLLOWING MANUFACTURERS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS FOR SOLID CORE DOORS WITH VENEER FACES:
A. ALGOMA HARDWOODS, INC.
B. EGGERS INDUSTRIES, ARCHITECTURAL DOOR DIVISION
C. IPK DOOR COMPANY, INC.
D. MARSHFIELD

08200-9 SEE PAINT SPECIFICATIONS FOR FINISH REQUIREMENTS FOR OPAQUE AND TRANSPARENT FINISHES.

08200-10 FACES AND EDGES OF DOORS SHALL BE SHOP-SEALED FOR TRANSPARENT FINISH WITH STAIN AND OTHER REQUIRED PRE-TREATMENTS AND FIRST COAT OF FINISH.

08200-11 SUBMIT DOOR MANUFACTURER'S TECHNICAL DATA FOR EACH TYPE OF DOOR, INCLUDING DETAILS OF CORE AND EDGE CONSTRUCTION AND FACTORY FINISHING SPECIFICATIONS.

08200-12 SUBMIT SHOP DRAWINGS INDICATING LOCATION AND SIZE OF EACH DOOR, ELEVATION OF EACH TYPE OF DOOR, DETAILS OF CONSTRUCTION, LOCATION AND EXTENT OF HARDWARE INCLUDING, FIRE RATINGS, REQUIREMENTS FOR FACTORY FINISHING, AND OTHER PERTINENT DATA.
08200-13 SUBMIT WRITTEN WARRANTY AGREEMENT IN DOOR MANUFACTURER'S STANDARD FORM, SIGNED BY MANUFACTURER, INSTALLER, AND CONTRACTOR, AGREEING TO REPAIR OR REPLACE DEFECTIVE DOORS THAT HAVE WARPED (BOW, CUP OR TWIST) OR THAT SHOW PHOTOGRAPHING OF CORE CONSTRUCTION BELOW FACE, DO NOT CONFORM TO TOLERANCE LIMITATIONS OF NWWDA OR DELAMINATE. THE WARRANTY SHALL BE IN EFFECT FOR LIFETIME OF INSTALLATION AND SHALL COMMENCE UPON SUBSTANTIAL COMPLETION.

08200-14 OFFSET TOLERANCE AT MEETING EDGE OF PAIR OF DOORS SHALL NOT EXCEED 1/8" EVEN IF SINGLE DOORS COMPLY WITH WARP TOLERANCE.

08200-15 WARRANTY SHALL INCLUDE REINSTALLATION WHICH MAY BE REQUIRED DUE TO REPAIR OR REPLACEMENT OF DEFECTIVE DOORS WHERE DEFECT WAS NOT APPARENT PRIOR TO HANGING.

08200-16 WOOD DOORS SHALL BE PROTECTED DURING TRANSIT, STORAGE, AND HANDLING TO PREVENT DAMAGE, SOILING, AND DETERIORATION. COMPLY WITH THE "ON-SITE CARE" RECOMMENDATIONS OF NWWDA PAMPHLET, "CARE AND FINISHING OF WOOD DOORS," AND WITH MANUFACTURER'S INSTRUCTIONS.

08200-17 WOOD DOORS SHALL BE CARTON AND/OR CRATED TO PROVIDE PROTECTION DURING TRANSIT AND JOB STORAGE. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR PRECAUTIONS REQUIRED FOR FIRE-RATED DOORS TO PREVENT MOISTURE DETERIORATION OF FIRE-RETARDANT SALTS.

08200-18 DOORS AND PANELS SHALL BE PRE FIT IN ACCORDANCE WITH TOLERANCE REQUIREMENTS OF NWWDA INDUSTRY STANDARD I.S. 1. PROVIDE STANDARD BEVEL OR RADIUS TO EDGES OF DOORS AS REQUIRED BY THE INSTALLATION.

08200-19 IDENTIFY EACH DOOR WITH INDIVIDUAL OPENING NUMBERS WHICH CORRELATE WITH DESIGNATION SYSTEM USED ON SHOP DRAWINGS FOR DOORS, FRAMES, AND HARDWARE, USING TEMPORARY, REMOVABLE OR CONCEALED MARKINGS.

08200-20 DO NOT DELIVER OR INSTALL DOORS UNTIL CONDITIONS FOR TEMPERATURE AND RELATIVE HUMIDITY HAVE BEEN STABILIZED AND WILL BE MAINTAINED IN STORAGE AND INSTALLATION AREAS DURING THE REMAINDER OF CONSTRUCTION PERIOD TO COMPLY WITH THE AWI QUALITY STANDARD SECTION 1005-3 "MOISTURE CONTENT" APPLICABLE TO THE PROJECT'S GEOGRAPHICAL LOCATION. CONDITION DOORS TO AVERAGE PREVAILING HUMIDITY IN INSTALLATION AREA PRIOR TO HANGING.

08200-21 CONTRACTOR SHALL EXAMINE ALL INSTALLED DOOR FRAMES PRIOR TO HANGING DOOR. VERIFY THAT FRAMES COMPLY WITH INDICATED REQUIREMENTS FOR THE SIZE, TYPE, LOCATION, AND SWING CHARACTERISTICS AND HAVE BEEN INSTALLED WITH PLUMB JAMBS AND LEVEL HEADS. RECTIFY DOORS WITH DEFECTS.

08200-22 COORDINATE MEASUREMENTS OF HARDWARE MORTISES IN METAL FRAMES TO VERIFY DIMENSIONS AND ALIGNMENT BEFORE PROCEEDING WITH FACTORY PREMACHINING.

08200-23 INSTALLATION OF WOOD DOORS SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, WITH REFERENCED INDUSTRY STANDARDS, AND AS INDICATED ON CONTRACT DRAWINGS. THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

08200-24 DOORS SHALL BE ALIGNED AND FIT IN FRAMES WITH UNIFORM CLEARANCES AND BEVELS AS INDICATED. DO NOT TRIM STILES AND RAILS IN EXCESS OF LIMITS SET BY MANUFACTURER OR PERMITTED WITH FIRE-RATED DOORS. SEAL CUT SURFACES AFTER FITTING AND MACHINING.

SECTION 08200 WOOD DOORS AND FRAMES (CONTINUED)

08200-25 REHANG OR REPLACE DOORS WHICH DO NOT SWING OR OPERATE FREELY AND REFINISH OR REPLACE ALL DOORS DAMAGED DURING INSTALLATION.

08200-26 REPLACE OR REFINISH DOORS WHERE CONTRACTOR'S WORK CONTRIBUTED TO REJECTION OR TO VOIDING OF MANUFACTURER'S WARRANTY.

08200-27 INSTALLER SHALL ADVISE THE CONTRACTOR OF PROPER PROCEDURES REQUIRED FOR PROTECTION OF INSTALLED WOOD DOORS FROM DAMAGE OR DETERIORATION UNTIL TIME OF SUBSTANTIAL PROJECT COMPLETION.

SECTION 08700 FINISH HARDWARE

08700-1 FINISH HARDWARE SHALL BE PROVIDED FOR ALL DOORS INCLUDING ALL ITEMS KNOWN COMMERCIALY AS BUILDERS HARDWARE OR FINISH HARDWARE. INCLUDE LOCK CYLINDERS FOR LOCKS FURNISHED IN OTHER SECTIONS WHERE SO SPECIFIED.

08700-2 ALL FINISH HARDWARE SHALL COMPLY WITH CURRENT ACCESSIBILITY AND ADA CODES. ALL LOCKS AND LATCHES SHALL BE LEVER TYPE. EXCEPT LOCKS WITH KNURLED LEVERS ON ENTRY SIDE TO DOORS WHICH ARE POTENTIALLY DANGEROUS TO BLIND OR VISUALLY HANDICAPPED PERSONS.

08700-3 HARDWARE FOR FIRE-RATED OPENINGS SHALL COMPLY WITH NFPA NO. 80 AND LOCAL BUILDING CODE REQUIREMENTS. PROVIDE ONLY HARDWARE WHICH HAS BEEN TESTED AND LISTED BY UL OR FM FOR TYPES AND SIZES OF DOORS REQUIRED AND COMPLIES WITH REQUIREMENTS OF DOOR AND DOOR FRAME LABELS.

08700-4 NO NAMES, DESIGNS, OR LABELS SHALL BE PERMITTED ON THE FOLLOWING ITEMS: FACE OF CYLINDERS, TURN PIECES OR OPERATING TRIM OF LOCK SETS OR LATCH SETS, CASE COVERS OF SURFACE APPLIED CLOSING DEVICES, AND UNDERSIDE OF DOOR HOLDER ARMINGS.

08700-5 THE DRAWINGS SHOW THE SWING OR TRAVEL OF EACH DOOR LEAF (LEFT, RIGHT, REVERSE BEVEL, SLIDE, ETC.). FURNISH EACH ITEM OF HARDWARE FOR PROPER INSTALLATION AND OPERATION OF THE DOOR TRAVEL AS SHOWN.

08700-6 ACCEPTABLE MANUFACTURERS:
A. HINGES, BUTTS, PIVOTS: STANLEY, MCKINNEY, HAGER, LAWRENCE, RIXON
B. LOCK/LEVER SETS: SCHLAGE "1" SERIES
C. CLOSER: CORBIN/RUSSWIN, DC2200/DC2100, LCN 4040, HAGER
D. DOOR TRIM: QUALITY, ROCKWOOD, HAGER
E. DOOR STOPS: HAGER, IVES, MORRICK, QUALITY, ROCKWOOD
F. DOOR HOLDERS: HAGER, CHECKMATE, ABH, IVES, ROCKWOOD
G. THRESHOLDS AND WEATHER-STRIP: PEMKO, REESE, ZERO, NATIONAL GUARD
H. STRIKE: IVES

08700-7 WHERE SEVERAL MANUFACTURERS ARE SPECIFIED FOR ONE TYPE OF HARDWARE, USE ONLY THE PRODUCTS OF ONE MANUFACTURER.

08700-8 FASTENINGS FOR INSTALLATION SHALL BE FURNISHED WITH EACH HARDWARE ITEM. PROVIDE PHILLIPS FLATHEAD COUNTERSINK SCREWS UNLESS OTHERWISE NOTED. (ANY EXPOSED/EXPOSED UNDER ANY CONDITION) SCREWS SHALL MATCH HARDWARE FINISH OR, IF EXPOSED IN SURFACES OF OTHER WORK, SHALL MATCH FINISH OF SUCH OTHER WORK AS CLOSELY AS POSSIBLE. PROVIDE HEX BOLTS AND BOLTS FOR ALL DOOR CLOSURES, EXIT DEVICES, AND DOOR HOLDERS ON METAL DOORS AND FIRE-RATED WOOD DOORS.

08700-9 CONCEALED FASTENERS SHALL BE PROVIDED FOR HARDWARE UNITS WHICH ARE EXPOSED WHEN DOOR IS CLOSED, EXCEPT TO THE EXTENT NO STANDARD UNITS OF THE TYPE SPECIFIED ARE AVAILABLE WITH CONCEALED FASTENERS. DO NOT USE THRU-BOLTS FOR INSTALLATION WHERE BOLT HEAD OR NUT ON OPPOSITE FACE IS EXPOSED IN OTHER WORK, EXCEPT WHERE IT IS NOT FEASIBLE TO ADEQUATELY REINFORCE THE WORK. IN SUCH CASES, SLEEVES SHALL BE PROVIDED FOR EACH THRU-BOLT OR USE HEX SCREW FASTENERS.

08700-10 ALL CLOSURES SHALL BE FULLY ADJUSTABLE TYPE WITH COMPLETE SPRING POWER ADJUSTMENT, FIELD ADJUSTABLE ACCORDING TO DOOR SIZE AND FREQUENCY OF USE. ALLOW FULL 180° OPENING OF DOORS UNLESS RESTRICTED BY WALLS. FURNISH FLUSH MOUNT TRANSBOM BRACKETS WHERE NO TRANSBOM BAR EXISTS. WHERE CLOSURES ARE INDICATED TO BE DELAYED ACTION, PROVIDE UNITS DESIGNED WITH AN ADJUSTABLE DELAY THAT HOLDS THE DOOR OPEN BEFORE THE CLOSING CYCLE BEGINS.

08700-11 ALL CLOSURES ON DOORS ACCESSIBLE TO THE PHYSICALLY HANDICAPPED SHALL COMPLY WITH STATE AND FEDERAL (ADA) STANDARDS FOR DOOR OPENING FORCE AND DELAYED ACTION CLOSING.

08700-12 CLOSURES SHALL BE INSTALLED BY INSTALLATION CREW. SIZE IS TO BE IN STRICT ACCORDANCE WITH ADA, ANSI A117.1, AND MANUFACTURER'S INSTRUCTIONS.

08700-13 WHETHER SPECIFIED IN HARDWARE SETS OR NOT, ALL FIRE-RATED DOORS SHALL RECEIVE A CLOSER.

08700-14 PROVIDE PARALLEL ARMS FOR ALL OVERHEAD CLOSURES, UNLESS OTHERWISE NOTED.

08700-15 EXCEPT FIRE-RATED DOORS, EXIT DEVICES SHALL BE EQUIPPED WITH KEVED DOGGING DEVICE TO HOLD THE PUSH BAR DOWN AND THE LATCH BOLT IN A RETRACTED POSITION, WHEN FUNCTION OF EXIT DEVICE REQUIRES CYLINDER, PROVIDE TYPE OF CYLINDER (RIM OR MORTISE) REQUIRED AND KEVED AS PER INSTRUCTIONS. LEVER DESIGN SHALL MATCH LOCKS.

08700-16 WHERE EXIT DEVICES ARE REQUIRED ON FIRE-RATED LABEL DOORS, DEVICES SHALL BE PROVIDED WITH UL LABEL INDICATING "FIRE EXIT HARDWARE" FOR DOORS WITHOUT FIRE RATING. PROVIDE DEVICES LISTED FOR "PANIC HARDWARE." WHETHER SPECIFIED IN HARDWARE SETS OR NOT, ALL FIRE EXIT DEVICES SHALL CARRY A UL FIRE RATED LABEL AT FIRE DOORS AND BE IN COMPLIANCE WITH NFPA STANDARD NO. 80.

08700-17 MATCHING FINISHES SHALL BE PROVIDED FOR HARDWARE UNITS AT EACH DOOR OR OPENING TO THE GREATEST EXTENT POSSIBLE. REDUCE DIFFERENCES IN COLOR AS MUCH AS COMMERCIALY POSSIBLE WHERE THE TEXTURES OF BASE METAL OR METAL FORMING PROCESS IS DIFFERENT FOR INDIVIDUAL UNITS OF HARDWARE EXPOSED AT THE SAME DOOR OR OPENING. IN GENERAL, MATCH ITEMS TO THE MANUFACTURER'S STANDARD FINISH FOR THE LATCH AND LOCKSET (OR PUSH-PULL UNITS) FOR COLOR AND TEXTURE. REDUCE VARIANCE IN HUE IN THE COLOR OF EACH FINISH. TYPE OF FINISH FOR EACH HARDWARE PART IS INDICATED IN THE HARDWARE SCHEDULE.

08700-18 PROVIDE NUMBER OF HINGES INDICATED, BUT NOT LESS THAN THREE (3) HINGES PER DOOR LEAF FOR DOORS 90° OR LESS IN HEIGHT AND ONE ADDITIONAL HINGE FOR EACH 30° OF ADDITIONAL HEIGHT OR SHOWN ON SCHEDULE. ALL DOORS WITH CLOSURES SHALL HAVE BEARING HINGES.

08700-19 HINGE PINS SHALL BE PROVIDED AS FOLLOWS, UNLESS OTHERWISE INDICATED:
I. STEEL HINGES: STEEL PINS
J. NONFERROUS HINGES: STAINLESS STEEL PINS
K. OUT-SWING CORRIDOR DOORS: NON-REMOVABLE PINS
L. INTERIOR DOORS: NON-RISING PINS

08700-20 MANUAL OR AUTOMATIC FLUSH BOLT COORDINATORS AND MOUNTING BRACKETS SHALL BE PROVIDED WHERE LISTED IN HARDWARE SETS. THEY SHALL BE THE PRODUCT OF ONE MANUFACTURER. ALL BUSHES FOR FIRE-RATED DOORS SHALL HAVE UL LABEL WITH MINIMUM 1/2" DIAMETER RODS OF BRASS, BRONZE, OR STAINLESS STEEL, WITH MINIMUM 3/4" THROW. PROVIDE DUST PROOF STRIKE AT ALL LOCATIONS EXCEPT WHERE THRESHOLDS ARE SHOWN.

08700-21 ALL FINISH HARDWARE TO BE INSTALLED ON OR IN METAL DOORS AND/OR FRAMES SHALL BE MANUFACTURED TO TEMPLATE. TEMPLATE MACHINE SCHEMES SHALL BE FURNISHED FOR ALL SUCH MATERIALS. THIS SUPPLIER SHALL FURNISH HARDWARE SCHEDULE AS APPROVED BY THE ARCHITECT AND ALL NECESSARY TEMPLATE TRANSMITTALS TO METAL FRAME FABRICATORS OR OTHER SUPPLIERS REQUIRING SAME, FOR THEIR COORDINATION AND USE. UPON REQUEST, CHECK SHOP DRAWINGS OF SUCH OTHER WORK TO CONFIRM THAT ADEQUATE PROVISIONS ARE MADE FOR PROPER LOCATION AND INSTALLATION OF HARDWARE.

08700-22 SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA FOR EACH ITEM OF HARDWARE, INCLUDE WHATEVER INFORMATION MAY BE NECESSARY TO SHOW COMPLIANCE WITH REQUIREMENTS AND INCLUDE INSTRUCTIONS FOR INSTALLATION AND FOR MAINTENANCE OF OPERATING PARTS AND FINISHES.

08700-23 SUBMIT FINAL HARDWARE SCHEDULE IN MANNER INDICATED BELOW. COORDINATE HARDWARE WITH DOORS, FRAMES, AND RELATED WORK TO ENSURE PROPER SIZE, THICKNESS, HAND, FUNCTION, AND FINISH OF HARDWARE. ORGANIZE HARDWARE SCHEDULE INTO "HARDWARE SETS" INDICATING COMPLETE DESIGNATIONS OF EVERY ITEM REQUIRED FOR EACH DOOR OR OPENING. INCLUDE THE FOLLOWING INFORMATION:
M. TYPE, STYLE, FUNCTION, SIZE, AND FINISH OF EACH HARDWARE ITEM
N. NAME AND MANUFACTURER OF EACH ITEM
O. FASTENINGS AND OTHER PERTINENT INFORMATION
P. LOCATION OF HARDWARE SET CROSS-REFERENCED WITH DRAWINGS AND SCHEDULE
Q. EXPLANATION OF ALL ABBREVIATIONS, SYMBOLS, CODES, ETC CONTAINED ON SCHEDULE
R. MOUNTING LOCATIONS FOR HARDWARE
S. KEYING INFORMATION
T. DOOR AND FRAME SIZES AND MATERIALS.

08700-24 KEYSY SYSTEM SHALL BE REVIEWED WITH OWNER AND BASE BUILDING OWNER, AND PROVIDE THE TYPE REQUIRED (MASTER, GRAND MASTER, OR GREAT-GRANDMASTER), EITHER NEW OR INTEGRATED WITH BASE BUILDING OWNER'S EXISTING SYSTEM.

08700-25 HARDWARE UNITS SHALL BE MOUNTED AT HEIGHTS INDICATED IN RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES AND PROVIDED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY. COORDINATE REMOVAL, STORAGE AND REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK SPECIFIED IN PAINTING SPECIFICATIONS. SURFACE-MOUNTED ITEMS SHALL NOT BE INSTALLED UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.

08700-26 EACH HARDWARE ITEM SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. WHENEVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATE REMOVAL, STORAGE AND REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK SPECIFIED IN PAINTING SPECIFICATIONS. SURFACE-MOUNTED ITEMS SHALL NOT BE INSTALLED UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.

08700-2

SECTION 09200 GYPSUM WALL BOARD

09200-1
GYPSUM WALL BOARD AND STEEL FRAMING INSTALLATION, APPLICATION, AND FINISHING SHALL COMPLY WITH ASTM C754 AND ASTM C840 STANDARDS AND SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF UNITED STATES GYPSUM - GYPSUM CONSTRUCTION HANDBOOK.

09200-2
MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF GA- 216 "APPLICATION AND FINISHING OF GYPSUM BOARD" BY THE GYPSUM ASSOCIATION, EXCEPT WHERE MORE DETAILED OR MORE STRINGENT REQUIREMENTS ARE INDICATED, INCLUDING THE RECOMMENDATIONS OF THE MANUFACTURER.

09200-3
WHERE WORK IS INDICATED FOR FIRE-RESISTANT RATINGS, INCLUDING THOSE REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, PROVIDE MATERIALS AND INSTALLATIONS IDENTICAL WITH APPLICABLE ASSEMBLIES WHICH HAVE BEEN TESTED AND LISTED BY RECOGNIZED AUTHORITIES, INCLUDING UL, GYPSUM ASSOCIATION, AIA AND OTHER TESTING AND/OR AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

09200-4
ESTABLISH AND MAINTAIN ENVIRONMENTAL CONDITIONS FOR APPLICATION AND FINISHING GYPSUM BOARD TO COMPLY WITH ASTM C840 AND WITH GYPSUM BOARD MANUFACTURER'S RECOMMENDATIONS.

09200-5
STEEL STUDS AND JOISTS SHALL COMPLY WITH ASTM C645, WITH FLANGE EDGES OF STUDS BENT BACK 90° AND DOUBLED OVER TO FORM 3/16" MINIMUM LIP (RETURN) AND COMPLYING WITH THE FOLLOWING REQUIREMENTS FOR MINIMUM THICKNESS OF BASE (UNCOATED) METAL AND FOR DEPTH:
A. THICKNESS: 26-GAUGE AT STUDS AND INTERIOR CEILING JOISTS, U.O.N.
B. STUD DEPTH: 2 1/2", 16" O.C., UNLESS OTHERWISE NOTED
C. FRAMING: ALL FRAMING MEMBERS SHALL BE GALVANIZED

09200-6
FASTENERS SHALL BE PROVIDED OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER, AND OTHER PROPERTIES REQUIRED TO FASTEN STEEL FRAMING AND FURRING MEMBERS SECURELY TO SUBSTRATES INVOLVED. FASTENERS SHALL COMPLY WITH RECOMMENDATIONS OF GYPSUM DRYWALL MANUFACTURERS FOR APPLICATIONS INDICATED.

09200-7
FOR FASTENERS OF METAL FRAMING: PROVIDE SCREWS AS RECOMMENDED BY MANUFACTURER, TO FACILITATE FUTURE DISMANTLING, MINIMIZE USE OF NAILS.

09200-8
GYPSUM BOARD SHALL BE PROVIDED IN ACCORDANCE WITH ASTM C36 OF TYPES INDICATED IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END JOINTS. GYPSUM BOARD SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
A. THICKNESS: 5/8" THICK, UNLESS OTHERWISE NOTED
B. TYPE: REGULAR OR TYPE F FOR FIRE-RESISTANCE-RATED ASSEMBLIES
C. EDGES: TAPERED
D. CONTENT: SYNTHETIC GYPSUM BOARD

09200-9
SELECT PANEL SIZES TO MINIMIZE WASTE. LAY OUT PANELS TO MINIMIZE WASTE AND REUSE CUTOFFS WHENEVER FEASIBLE.

09200-10
INSTALL MOISTURE-RESISTANT GYPSUM WALL BOARD PANELS IN AREAS EXPOSED TO MOISTURE AS REQUIRED.

09200-11
TRIM ACCESSORIES, INCLUDING CORNER BEADS, EDGE TRIM, AND CONTROL JOINTS SHALL COMPLY WITH ASTM C1047 AND BE PROVIDED AS NECESSARY. MUD, BLEND AND SAND SMOOTH INTO ADJACENT SURFACES.

09200-12
PLACE CONTROL JOINTS CONSISTENT WITH LINES OF BUILDING SPACES AND AS INDICATED. CONTROL JOINTS SHALL NOT BE MORE THAN 30 FEET APART ON WALLS AND CEILINGS OVER 5' IN LENGTH.

09200-13
WALLBOARD JOINT TREATMENT MATERIALS SHALL BE PROVIDED AND COMPLY WITH ASTM C475, ASTM C840, AND RECOMMENDATIONS OF MANUFACTURERS OF BOTH GYPSUM BOARD AND JOINT TREATMENT MATERIALS FOR THE APPLICATION INDICATED.

09200-14
ALL PURPOSE COMPOUND FORMULATED FOR USE AS BOTH TAPING AND TAPPING COMPOUND
A. JOINT TAPE, PAPER REINFORCING TAPE
B. DRYING-TYPE JOINT COMPOUND, FACTORY-PREPACKAGED VINYL ASBESTOS PRODUCTS
C. ALL-PURPOSE COMPOUND FORMULATED FOR USE AS BOTH TAPING AND TAPPING COMPOUND
D. AVOID PREMIXED JOINT COMPOUNDS CONTAINING ADDITIVES. PRODUCTS SHALL BE FREE OF ANTIFREEZE, VINYL ADHESIVES, PRESERVATIVES, BIOCIDES, AND OTHER SLOW-RELEASING COMPOUNDS.

09200-14
AUXILIARY MATERIALS FOR GYPSUM DRYWALL CONSTRUCTION SHALL COMPLY WITH REFERENCED STANDARDS AND THE RECOMMENDATIONS OF THE MANUFACTURER OF THE GYPSUM BOARD.

09200-15
PARTITIONS ARE DIMENSIONED FINISH FACE TO FINISH FACE UNLESS NOTED OTHERWISE. DIMENSIONS NOTED "CLEAR" (CLR) OR "HOLD" ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT.

09200-16
HEIGHTS ARE DIMENSIONED FROM THE TOP OF FINISHED FLOOR, UNLESS NOTED OTHERWISE.

09200-17
ALL PARTITIONS SHOWN ABUTTING INTO EXISTING WALLS SHALL ALIGN WITH FACE OF FINISHED SURFACES UNLESS NOTED OTHERWISE.

09200-18
SUBMIT MANUFACTURER'S PRODUCT SPECIFICATIONS FOR EACH TYPE OF GYPSUM BOARD, STEEL FRAME, AND TRIM ACCESSORY INDICATED.

09200-19
EXAMINE SUBSTRATE TO WHICH DRYWALL CONSTRUCTION ATTACHES OR ABUTS. PRESET HOLLOW METAL FRAMES, CAST-IN-ANCHORS, AND STRUCTURAL FRAMING SHALL BE IN COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF DRYWALL CONSTRUCTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

09200-20
STORE MATERIALS INSIDE UNDER COVER AND KEEP THEM DRY AND PROTECTED AGAINST DAMAGE FROM WEATHER, DIRECT SUNLIGHT, SURFACE CONTAMINATION, CORROSION, CONSTRUCTION TRAFFIC, AND OTHER CAUSES. GYPSUM BOARD SHALL BE STACKED NEATLY AND FLAT TO PREVENT SAGGING.

09200-21
HANDLE GYPSUM BOARDS TO PREVENT DAMAGE TO EDGES, ENDS, AND SURFACES. DO NOT BEND OR OTHERWISE DAMAGE METAL CORNER BEADS AND TRIM.

09200-22
MINIMUM ROOM TEMPERATURE FOR NON-ADHESIVE ATTACHMENT OF GYPSUM BOARD SHALL NOT BE LESS THAN 40° F. MINIMUM ROOM TEMPERATURE FOR ADHESIVE ATTACHMENT AND FINISHING OF GYPSUM BOARD SHALL NOT BE LESS THAN 50° F FOR 48 HOURS PRIOR TO APPLICATION AND CONTINUOUS THEREAFTER UNTIL DRYING IS COMPLETE.

09200-23
BUILDING SPACES SHALL BE VENTILATED TO REMOVE WATER NOT REQUIRED FOR DRYING JOINT TREATMENT MATERIALS. AVOID DRAFTS DURING DRY, HOT WEATHER TO PREVENT MATERIALS FROM DRYING TOO RAPIDLY.

09200-24
COORDINATE INSTALLATION OF CEILING SUSPENSION SYSTEM WITH INSTALLATION OF OVERHEAD STRUCTURAL SYSTEMS TO ENSURE THAT INSERTS AND OTHER STRUCTURAL ANCHORAGE PROVISIONS HAVE BEEN INSTALLED TO RECEIVE CEILING ANCHORS IN A MANNER THAT WILL DEVELOP THEIR FULL STRENGTH AND AT SPACING REQUIRED TO SUPPORT CEILING.

09200-25
VERIFY PARTITION THICKNESS FOR INTERNAL INCLUSIONS SUCH AS PLUMBING, TOILET ACCESSORIES, PANEL BOXES, ETC. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE SCHEDULED PARTITION AND ANY INTERNAL INCLUSIONS.

09200-26
STEEL FRAMING INSTALLATION SHALL COMPLY WITH ASTM C754 AND ASTM C840 REQUIREMENTS THAT APPLY TO FRAMING INSTALLATION. LIGHT GAUGE STEEL COMPONENTS SHALL CONTAIN A MINIMUM OF 80% RECYCLED STEEL AS MANUFACTURED BY CLARKE STEEL.

09200-27
ALL PARTITIONS SHALL BE INSTALLED PLUMB, TAPED, AND SANDED SMOOTH SO THAT THERE ARE NO VISIBLE JOINTS.

09200-28
SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING SHALL BE INSTALLED AT TERMINATION IN THE WORK AND FOR SUPPORT OF FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, FURNISHINGS, AND SIMILAR CONSTRUCTION TO COMPLY WITH DETAILS INDICATED AND WITH RECOMMENDATIONS OF GYPSUM BOARD MANUFACTURER, OR IF NONE AVAILABLE, WITH "GYPSUM CONSTRUCTION HANDBOOK" PUBLISHED BY UNITED STATES GYPSUM CO.

09200-29
DO NOT BRIDGE BUILDING EXPANSION AND CONTROL JOINTS WITH STEEL FRAMING OR FURRING MEMBERS. BOTH SIDES OF JOINTS SHALL BE FRAMED OR FURRED INDEPENDENTLY AS INDICATED.

09200-30
HANGERS SHALL BE SECURED TO STRUCTURAL SUPPORT BY CONNECTING DIRECTLY TO STRUCTURE WHERE POSSIBLE. OTHERWISE, HANGERS SHALL CONNECT TO CAST-IN-CONCRETE INSERTS OR OTHER ANCHORAGE DEVICES OR FASTENERS AS INDICATED. DO NOT ATTACH HANGERS TO METAL DECK TABS OR TO METAL ROOF DECK.

09200-31
DO NOT CONNECT OR SUSPEND STEEL FRAMING FROM DUCTS, PIPES, OR CONDUIT. HANGERS AND BRACES SHALL BE AT LEAST 2" CLEAR OF DUCTS, PIPES OR CONDUIT.

09200-32
RUNNERS (TRACKS) SHALL BE INSTALLED AT FLOORS, CEILINGS, AND STRUCTURAL WALLS AND COLUMNS WHERE GYPSUM DRYWALL STUD SYSTEM ABUTS OTHER CONSTRUCTION.

09200-33
EXTEND PARTITION FRAMING FULL HEIGHT TO STRUCTURAL SUPPORTS OR SUBSTRATES ABOVE SUSPENDED CEILINGS, EXCEPT WHERE PARTITIONS ARE INDICATED TO TERMINATE AT SUSPENDED CEILINGS. CONTINUE FRAMING OVER FRAMES FOR DOORS AND OPENINGS AND FRAME AROUND DUCTS PENETRATING PARTITIONS ABOVE CEILING TO PROVIDE SUPPORT FOR GYPSUM BOARD.

09200-34
DO NOT CONTINUE DRYWALL JOINT ABOVE THE JAMB AT DOORS AND SIMILAR OPENINGS. OFFSET DRYWALL JOINT TO CENTER OF OPENING WHERE POSSIBLE.

09200-35
ATTACH GYPSUM BOARD TO SUPPLEMENTARY FRAMING AND BLOCKING PROVIDED FOR ADDITIONAL SUPPORT AT OPENINGS AND CUTOUTS.

09200-36
COVER BOTH FACES OF STEEL STUD PARTITION FRAMING WITH GYPSUM BOARD IN CONCEALED SPACES (ABOVE CEILINGS, ETC.), EXCEPT IN CHASE WALLS WHICH ARE BRACED INTERNALLY. EXCEPT WHERE CONCEALED APPLICATION IS INDICATED OR REQUIRED FOR SOUND, FIRE, AIR, OR SMOKE RATINGS; COVERAGE MAY BE ACCOMPLISHED WITH SCRAPS NOT LESS THAN 8" SQ. FT. AREA, AND MAY BE LIMITED TO NOT LESS THAN 75% OF FULL COVERAGE.

09200-37
WHERE FEASIBLE, USE THE SAME FASTENERS TO ANCHOR TRIM ACCESSORY FLANGES AS REQUIRED TO FASTEN GYPSUM BOARD TO THE SUPPORTS. OTHERWISE, FASTEN FLANGES TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

09200-38
SOUND ATTENUATION BLANKETS SHALL BE INSTALLED PRIOR TO GYPSUM BOARD WHERE INDICATED UNLESS READILY INSTALLED AFTER BOARD HAS BEEN INSTALLED.

09200-39
JOINT TREATMENT SHALL BE APPLIED AT GYPSUM BOARD JOINTS (BOTH DIRECTIONS); FLANGES OF CORNER BEAD, EDGE TRIM, AND CONTROL JOINTS, PENETRATIONS, FASTENER HEADS, SURFACE DEFECTS AND ELSEWHERE AS REQUIRED TO PREPARE WORK FOR DECORATION.

09200-40
PREFILL OPEN JOINTS AND ROUNDED OR BEVELED EDGES USING SETTING-TYPE JOINT COMPOUND.

09200-41
APPLY JOINT TAPE AT JOINTS BETWEEN GYPSUM BOARDS, EXCEPT WHERE TRIM ACCESSORIES ARE INDICATED.

09200-42
CAULK GAPS WHERE INTERSECTION OF CONSTRUCTION ELEMENTS IS NOT CRISP AND CONSISTENT AS APPLICABLE, UNLESS OTHERWISE NOTED. COLOR OF CAULKING SHALL MATCH ADJACENT MATERIALS AND SHALL BE APPLIED AS INCONSPICUOUSLY AS POSSIBLE.

09200-43
FINISH INTERIOR GYPSUM WALLBOARD BY APPLYING JOINT COMPOUNDS IN 3 COATS (NOT INCLUDING PREFILL OF OPENINGS IN BASE), SAND BETWEEN COATS AND AFTER LAST COAT. ONLY ONE COAT IS REQUIRED ON CONCEALED DRYWALL CONSTRUCTION.

09200-44
PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS, IN A MANNER SUITABLE TO INSTALLER, WHICH ENSURES GYPSUM DRYWALL CONSTRUCTION BEING WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

SECTION 09310 CERAMIC TILE

09310-1
SINGLE SOURCE MANUFACTURER: WATERPROOFING, SURFACE PREPARATION, PRIMERS, CRACK ISOLATION MEMBRANES, UNDERLAYMENTS, SETTING MATERIALS, AND GROUT MATERIALS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.

09310-2
SUBMIT SHOP DRAWINGS SHOWING TILE PATTERNS AND PROPOSED JOINT LOCATIONS BASED ON VERIFIED FIELD DIMENSIONS. SUBMITTAL SHALL INCLUDE ANY DEVIATION FROM DETAILS AS SHOWN ON DRAWINGS WHICH RELATE TO CERAMIC TILE FLOORING OR BASE CONDITIONS. SUBMITTAL SHALL INCLUDE MATERIAL SAMPLES OF ALL MATERIALS USED THAT ARE VISIBLE. THIS INCLUDES, BUT IS NOT LIMITED TO GROUT, CAULKING, SEALANT, METAL SEPARATORS, ETC.

09310-3
THE MANUFACTURER SHALL WARRANT THE PERFORMANCE OF THE CERAMIC TILE FOR TEN YEARS, UPON COMPLETION OF THE INSTALLATION, WHEN INSTALLED PER CERAMIC TILE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

09310-4
SYSTEM SHALL MEET TRAFFIC LEVEL PERFORMANCE EXTRA HEAVY COMMERCIAL WHEN TESTED IN ACCORDANCE WITH ASTM C 627 EVALUATING CERAMIC TILE FLOOR INSTALLATIONS.
A. MEMBRANE SHALL MEET ALL ANSI A118.10 SPECIFICATIONS FOR CERAMIC WATERPROOFING MEMBRANES
B. TROWEL-APPLIED WATERPROOFING MEMBRANE SHALL BE TRIPLE FLEX WATERPROOFING, CRACK ISOLATION MEMBRANE AND BONDING MORTAR SYSTEM (324), AS MANUFACTURED BY MANUFACTURER'S SPECIFICATIONS

09310-5
REFER TO TILE COUNCIL OF AMERICA, INC. HANDBOOK, METHOD E.171-93 FOR RECOMMENDATIONS ON LOCATING AND DETAILING VARIOUS TYPES OF CONSTRUCTION JOINTS. USE SEALANT COMPLYING WITH ASTM C320 ACCORDING TO TYPE, GRADE, CLASS AND USES REQUIRED. EXAMINE CONDITIONS UNDER WHICH CERAMIC TILE WILL BE INSTALLED AND PROCEED WITH WORK IN ACCORDANCE WITH SECTION 07110, MAXIMUM VARIATION FROM THE REQUIRED PLANE, AS SPECIFIED BY TILE COUNCIL OF AMERICA F-111-03 THROUGH F-116-03. 1.

09310-6
NOTIFY ARCHITECT AND GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

09310-7
SURFACES TO BE TILED SHALL BE STRUCTURALLY SOUND, DRY AND FREE FROM OIL, GREASE, DUST, LOOSE OR PEELING PAINT, CONCRETE SEALERS OR CURING COMPOUNDS. ALL CONTAMINANTS MUST BE REMOVED PRIOR TO SYSTEM INSTALLATION. SURFACES MUST BE FREE OF HYDROSTATIC CONDITIONS OR OTHER MOISTURE RELATED PROBLEMS. CONFIRM LOCATION OF EXPANSION OR CONTROL JOINTS REQUIRED AND DETAILS PROVIDED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH ANSI A108.5 INSTALLATION SPECIFICATIONS FOR LATEX-MODIFIED PORTLAND CEMENT MORTAR, ANSI A108.4 INSTALLATION SPECIFICATIONS WITH ORGANIC OR EPOXY ADHESIVES. INSTALL A CONTINUOUS MEMBRANE OF AT LEAST 45 MIL THICK OVER THE ENTIRE SURFACE TO BE WATERPROOFED. INSTALL TRIPLE FLEX WATERPROOFING MEMBRANE, CRACK ISOLATION MEMBRANE AND BONDING MORTAR IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS PRODUCT INSTALLATION PROCEDURES FOR WATERPROOFING.

09310-8
PRIME THE SURFACE WITH PRIMER AND PATCH ADDITIVE FOLLOWING PRODUCT INSTALLATION PROCEDURES FROM MANUFACTURER'S SPECIFICATIONS. INSTALL TILE IN PATTERN SHOWN ON DRAWINGS. JOINTS SHALL BE ALIGNED AND OF SAME SIZE WHEN ADJOINING TILES ON FLOOR, BASE, WALLS AND TRIM. TILE SHOULD BE CUT STRAIGHT AND HAVE EDGES ALIGNED WITH ADJACENT MATERIALS. GRIND EDGES OF CUT TILE. INSTALL TILE UNDER EQUIPMENT AND FIXTURES AND INTO RECESSES TO FORM A COMPLETE TILE COVERING. TERMINATE TILE NEATLY AT BOXES, DOORS AND OBSTRUCTIONS WITHOUT DISRUPTING THE TILE PATTERN OR JOINT ALIGNMENT. INSTALL TILE IN ACCORDANCE WITH LATEST VERSION OF TILE COUNCIL OF AMERICA, INC. METHOD F11-03 THROUGH F116-03. REFER TO DRAWING DETAILS FOR ACTUAL CONDITIONS.

09310-9
INSTALL GROUT IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS INSTALLATION INSTRUCTIONS AND FOLLOWING THE GUIDELINES OF ANSI A108.10. INSTALL EPOXY MORTAR AND GROUT IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS INSTALLATION INSTRUCTIONS AND FOLLOWING THE GUIDELINES OF ANSI A108.6.

09310-10
EXPANSION AND CONTROL JOINTS: INSTALL EXPANSION AND CONTROL JOINTS IN ACCORDANCE WITH TILE COUNCIL OF AMERICA, INC. METHOD E.171.

09310-11
COMPLETELY REMOVE ALL GROUT HAZE AND RESIDUE FROM THE SURFACE OF THE CERAMIC OR STONE TILE. GROUT JOINTS MUST BE CLEAN AND FREE OF STANDING WATER, DUST AND ANY FOREIGN SUBSTANCES.

09310-12
PROTECT FLOORS FROM GENERAL FOOT TRAFFIC FOR AT LEAST 72 HOURS AFTER GROUTING HAS BEEN COMPLETED. PROTECT TILE INSTALLATION FROM FREEZING AND WATER IMMERSION FOR AT LEAST 21 DAYS AFTER INSTALLATION IS COMPLETE. PROTECT ALL FLOOR TILE INSTALLATIONS WITH KRAFT PAPER OR OTHER HEAVY BREATHABLE COVERING DURING THE CONSTRUCTION PERIOD TO PREVENT DAMAGE OR STAINING.

09310-13
FIELD MOCK-UP: INSTALL A FULLY FINISHED MOCK-UP FOR EACH TYPE TILE INSTALLATION. MOCK-UP SHALL BE A MINIMUM OF 10"X 10" AND WILL BE REVIEWED FOR JOINT QUALITY, COLOR RANGE, PATTERN AND WORKMANSHIP.

09310-14
EXTRA STOCK: FURNISH EXTRA STOCK OF QUANTITY EQUAL TO 5% OF AMOUNT INSTALLED, IN FULL-SIZE UNITS, FOR EACH TYPE, COLOR, SIZE AND FINISH INCLUDED IN THE WORK. ALL PRODUCTS SUPPLIED SHALL BE DELIVERED IN ORIGINAL, UNOPENED PACKAGES WITH LABELS IDENTIFYING PRODUCTS LEGIBLE AND INTACT.

09310-15
ALL PRODUCTS SUPPLIED SHALL BE STORED IN A DRY ENCLOSURE AND PROTECTED FROM THE WEATHER, DIRECT SUNLIGHT, SURFACE CONTAMINATION, AGING, AND SMOKE DEVELOPMENT. PROVIDE PANELS WHICH HAVE BEEN TESTED, RATED, AND LABELED BY UL FOR THE REQUIRED RATINGS AS LISTED IN THE "CLASSIFIED BUILDING MATERIALS INDEX" BY UL.

09310-16
APPLY FULL COVERAGE UNDER ALL STONE FLOORING WITH CRACK ISOLATION MEMBRANE. INSTALLATION SHALL COMPLY WITH ANSI-A108.17 AND TONA-F125A-09. PREPARATION OF CRACK ISOLATION MEMBRANE SHOULD BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MEMBRANE MATERIAL SHALL MEET ANSI-A118.12 REQUIREMENTS.

09310-17
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SECTION 09380 INTERIOR STONework (CONT.)

09380-25
STONE INSTALLATION WORK SHALL COMPLY WITH ANSI 108 AS RECOMMENDED BY PROPRIETARY MORTAR AND GROUT MATERIALS MANUFACTURER.

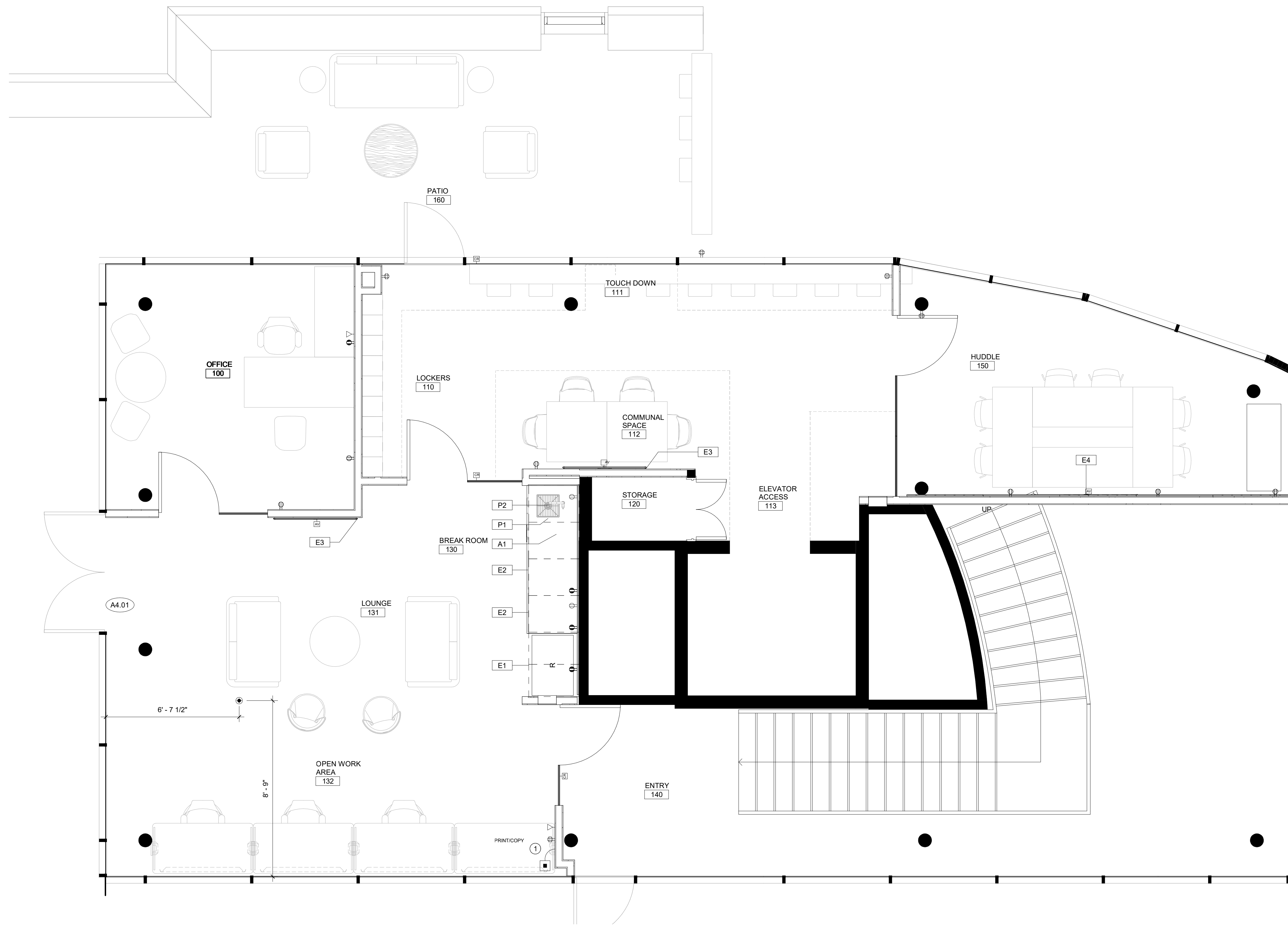
09380-26
GROUT SHALL BE LATEX CEMENT-BASED, PETROLEUM AND PLASTIC-FREE GROUT.

09380-27
COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS FOR MIXING AND INSTALLATION OF PROPRIETARY MATERIALS.

09380-28
STONE SHALL EXTEND INTO RECESSES AND UNDER OR BEHIND EQUIPMENT AND FIXTURES TO FORM COMPLETE COVERING.

09380-29
STONE SHALL BE SET IN ACCORDANCE WITH DRAWINGS AND FINAL SHOP DRAWINGS FOR STONework. PROVIDE ANCHORS, SUPPORTS, FASTENERS AND OTHER ATTACHMENTS SHOWN, OR AS NECESSARY, TO SECURE STONework IN PLACE. SHIM AND ADJUST ACCESSORIES AS REQUIRED FOR PROPER SETTING OF STONE. COMPLETELY FILL HOLES, SLOTS, AND OTHER SINKAGES FOR ANCHORS, DOWELS, FASTENERS, AND SUPPORTS WITH MORTAR DURING SETTING OF STONES.

09380-30
STONE CLEANERS OF PROPER FORMULATION FOR KINDS OF STONES, FINISHES, AND APPLICATIONS INDICATED, AS RECOMMENDED BY STONE PRODUCER, AND AS RECOMMENDED BY SEALER MANUFACTURER. DO



1 UPPER LEVEL 02

3/8" = 1'-0"

	CARD READER, QT STANDARD.
	AV PACK BOX WITH POWER & DATA
	FLOOR POWER 1: FLOOR CORE POWER ONLY. PROVIDE A QUAD.
	DATA
	DUPLEX
	DEDICATED DUPLEX DUPLEX IG
	QUAD
	DEDICATED QUAD QUAD IG
	WORKSTATION POWER & DATA WALL WHIP
	LEGEND 2' ALTERNATING USB PLUG/OLD IN BLACK

1. SWITCHES, FIRE DEVICES, ETC. SHALL BE GANGED AND LOCATED PER MOUNTING DIAGRAM SPECIFICATIONS.
2. ALL OUTLETS MOUNTED ABOVE COUNTER SURFACES, ARE TO BE MOUNTED HORIZONTALLY.
3. GC & EC TO REFER TO AV DOCUMENTS & COORDINATE WALK THRU W/AV CONSULTANT FOR EXACT PLACEMENT OF POWER/TELE/DATA OUTLETS, SPEAKERS AND CONDUITS. REFER TO AV DRAWINGS FOR SPECIFIC REQUIREMENTS. ARCHITECTURAL DRAWINGS ARE FOR INFORMATION PURPOSES ONLY.
4. ALL EXISTING POWER AND DATA TO REMAIN.
5. PROVIDE BLOCKING IN WALL FOR SCHEDULED WALL MOUNTED TELEVISION MONITORS. TYPICAL

6 GENERAL POWER AND COMMUNICATIONS PLAN TYPICALS

- 1 WHIP TO PROVIDE POWER/DATA TO THREE WORKSTATIONS (EACH WITH 1 CPU, TWO MONITORS AND 2 ACCESSORY POWER) AND ONE PRINT/COPY STATION (POWER/DATA FOR TWO PRINTERS)

ID	Description	Manufacturer	Model	Size	Contractor Provided	Tenant Provided	Comments
FEC	SEMI RECESSED FIRE EXTINGUISHER CABINET	SEE SPECS					
A1	TRASH CAN	RUBBERMAID	S-13527BL	15"W X 11"D X 20"H	Yes		FINISH: BLACK. PROVIDE TWO IN PULL OUT DRAWER.
E1	REFRIGERATOR/FREEZER	GE	GZS22IEN DS	30"D X 36"W X 70"H	Yes		FINISH: BLACK SLATE; ENERGY STAR; LEFT HINGE - CONFIRM WITH ELEVATIONS; COORDINATE TRIM KIT.
E2	MICROWAVE DRAWER	SHARP	SMD2480C S	23.5" X 24"W X 16.5"H	Yes		FINISH: STAINLESS STEEL. PROVIDE TRIM KIT.
E3	FLATSCREEN TV	TBD	TBD	55"	Yes		TO HAVE INTEGRAL COMPUTER AND SEAMLESS PLUG AND PLAY. CONFIRM WITH OIT.
E4	FLATSCREEN TV	TBD	TBD	70"	Yes		TO HAVE INTEGRAL COMPUTER AND SEAMLESS PLUG AND PLAY. CONFIRM WITH OIT.

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
P1	15inch x 15inch under-mount bar sink with sink rack	KOHLER Co.	K-5287-NA	GC TO PROVIDE AND INSTALL.
P2	Single-hole kitchen sink faucet with 8 inch pull-out spout	KOHLER Co.	K-7505-CP	GC TO PROVIDE AND INSTALL. FINISH MATTE BLACK

- 4.0 GENERAL REQUIREMENTS
- 4.0.1 REFER TO PARTITION PLAN FOR TYPICAL GENERAL REQUIREMENTS INCLUDING SUBMITTAL REQUIREMENTS.
- 4.1 GENERAL POWER AND COMMUNICATION NOTES:
- 4.1.1 REFER TO GENERAL POWER AND COMMUNICATION STANDARDS FOR TYPICAL INFORMATION.
- 4.1.2 INSPECTIONS AS REQUIRED BY LOCAL AUTHORITIES SHALL BE COMPLETED PRIOR TO CLOSING OF CEILING OF ANY WALLS OR CEILINGS.
- 4.1.3 REFER TO REFLECTED CEILING PLAN FOR NOTES REGARDING REQUIREMENTS
- 4.1.4 FIELD VERIFICATIONS: G.C. AND SUBCONTRACTORS SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK. SIZES OF CONDUIT ADEQUATE FOR CABLE/SERVICE SPECIFIED.
- 4.1.5 COORDINATION OF ELECTRICAL WORK WITH HVAC, CABINET WORK, CAR ASSURED BY GC.
- 4.1.6 ELECTRICAL CONTRACTOR TO PROVIDE FINAL CONNECTION AFTER ALL FURNITURE HAS BEEN INSTALLED.
- 4.1.7 ALL TELE/DATA DROPS ARE INDICATED FOR INFORMATION ONLY. GC & EC TO COORDINATE W/ CABLE VENDORS DOCUMENTS OR W/ TENANT TO CONFIRM FINAL SCOPE REQUIREMENTS.

2 POWER AND COMMUNICATIONS PLAN GENERAL NOTES:

- (A4.01) PROVIDE CARD READER ON EXISTING DOOR

7 POWER AND COMMUNICATIONS LEGEND

5 POWER AND COMMUNICATIONS PLAN SHEET CODED NOTES

4 EQUIPMENT LIST

3 ALTERNATES:



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NO.	DATE	REMARKS
03/06/2020		ISSUED FOR CONSTRUCTION

DRAWING TITLE: POWER AND COMMUNICATIONS PLAN @ UPPER LEVEL 02	
PROJECT NO: 11426.04	ISSUE DATE: 03/06/20
DRAWN BY: JL	CHECKED BY: KT
SHEET NUMBER:	

A3.00



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PLUMBING LEGEND

Table with 2 columns: SYMBOLS and ABBREVIATIONS. Symbols include lines for soil/waste above/below floor, vent, cold/hot water, indirect drain, and piping to be removed. Abbreviations include ABV (Above), ARCH (Architectural), BEL (Below), etc.

PLUMBING SPECIFICATIONS:

GENERAL: 1. PLUMBING INSTALLATION SHALL COMPLY WITH THE 2018 INTERNATIONAL PLUMBING CODE WITH STATE OF GEORGIA AMENDMENTS. 2. CODES, STANDARDS, AND REGULATIONS REFERRED TO ARE MINIMUM STANDARDS. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS OR DRAWINGS EXCEED THOSE OF THE CODES, STANDARDS, AND REGULATIONS, THE DRAWINGS OR SPECIFICATIONS SHALL GOVERN. 3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE APPROXIMATE LOCATIONS OF FIXTURES, APPARATUS, EQUIPMENT, AND PIPING. CHANGES AND OFFSETS WHICH ARE NOT SHOWN ON THE DRAWINGS BUT ARE NECESSARY TO ACCOMMODATE BUILDING CONDITIONS AND COORDINATION WITH THE WORK OF OTHER TRADES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

PLUMBING SPECIFICATIONS CONTINUED:

SYSTEMS TESTING: 1. GENERAL: A. CAP OR PLUG ALL OPENINGS PRIOR TO TESTING. B. DISCONNECT PRESSURIZATION SOURCES PRIOR AND DURING TESTING. C. CONDUCT ALL TESTS WHILE PIPING AND JOINTS ARE EXPOSED TO VIEW. D. NO LEAK-DOWN IS ALLOWED FOR WATER, OR DRAINAGE SYSTEMS. E. SOLDERED, BRAZED, AND WELDED JOINTS THAT LEAK SHALL BE CUT OUT AND REPLACED. F. CAST IRON NO-HUB JOINTS THAT LEAK SHALL BE TAKEN APART AND ASSEMBLED WITH NEW COUPLINGS. G. SUBMIT A STATEMENT CERTIFYING THAT PIPES AND JOINTS ARE TIGHT AND HAVE PASSED THE SPECIFIED TESTS. 2. DOMESTIC WATER SYSTEMS TESTING: PER GEORGIA TECH YELLOWBOOK STANDARD 221116 - 1.01.0 FOR NEW PIPING INSTALLED IN BUILDINGS WITH FINISHED SPACES. FIRST LEAK TEST DOMESTIC WATER PIPING WITH AIR NO GREATER THAN 40 PSI. AFTER PASSING THE AIR TEST APPLY A HYDROSTATIC PRESSURE OF 125 PSIG FOR A DURATION OF 1 HOUR.

PLUMBING SPECIFICATIONS CONTINUED:

PRODUCTS: 1. WH-1: WATER HEATER A. COMMERCIAL ELECTRIC TANKLESS WATER HEATER, UL LISTED PACKAGED WALL-MOUNTED INSTANTANEOUS UNIT, WITH TEMPERATURE ADJUSTMENT CONTROL, THERMOSTATIC CONTROL, CONTROLS, AND BAKED ENAMEL STEEL OR STAINLESS STEEL JACKET. HEATERS SHALL HAVE A 1 YEAR COMMERCIAL WARRANTY. a. MANUFACTURER: CHRONOMITE E SERIES, INSTANT TEMP, EEMAX FLOW CONTROLLED SERIES, HUBBELL TANKLESS SERIES, OR KELTECH HL SERIES. 2. SK-1: KITCHEN SINK A. 15" X 15" X 9" STAINLESS STEEL SINK, ONE COMPARTMENT, ADA/REGULAR USE, SUPPLIES WITH STOP VALVES, REAR DRAIN, P-TRAP, WASTE TO WALL, AND ESCUTCHEONS. a. MANUFACTURER: KOHLER K-5287. B. FAUCET: MANUAL TYPE WITH CHROME-PLATED BRASS BODY, GOOSENECK SPOUT WITH NOMINAL 8" SPREAD, SINGLE LEVER HANDLE, PULL-OUT SPRAYHEAD WITH 1.5 GPM AERATOR, ADA/REGULAR USE. PROVIDE FAUCET WITH ASSE 1070 COMPLIANT MIXING VALVE AND SET OUTLET TEMPERATURE TO 110 °F. a. MANUFACTURER: KOHLER K-7505. C. SUPPLIES: ANGLE STOPS WITH 0.5" ID X 5" INLET SWEAT TUBE, BELL ESCUTCHEON, WHEEL HANDLE CONTROL, 0.5" OD X 12" FLEXIBLE TUBE RISER, AND EXPOSED PIPING AND PARTS CHROMIUM-PLATED. a. MANUFACTURER: JUST JL27, KEENEY 2780PCL12LF, OR MCGUIRE LF171 ECO. D. DRAIN: CHROMIUM-PLATED FINISH BRASS BODY AND FLAT STRAINER WITH BRASS LOCK NUT, SEALANT WASHERS, AND 1.5" X 4" SEAMLESS 20 GAUGE TAILPIECE. a. MANUFACTURER: ELKAY LK18, JUST JSF8W, KEENEY 1376PC, MCGUIRE 152 ECO, OR ZURN Z8739-PC. E. P-TRAP: 1.5", TUBULAR CHROMIUM-PLATED BRASS, WITH 17 GAUGE TUBING DRAIN TO WALL, WALL FLANGE, CAST BRASS SLIP NUTS, CLEANOUT PLUG, AND MINIMUM 2" WATER SEAL. a. MANUFACTURER: JUST JT150, KEENEY 5307PC867CR, MCGUIRE 8912 ECO, OR ZURN Z8702-9-B. F. ADA INSULATION: INSULATION KIT FOR ADA LOCATIONS: WHITE MOLDED CLOSED-CELL VINYL, 3-PIECE SET FOR TAILPIECE, P-TRAP, AND WASTE ARM, AND TWO 2-PIECE SETS FOR SUPPLY STOPS, AND RISERS. a. MANUFACTURER: INSUL-TECT I-T 101 AND/OR I-T 102, MCGUIRE PW2125 AND/OR PW2150, PRO FLO PF202WH, OR TRUEBRO 102E-Z. 3. IM-1: REFRIGERATOR ICE MAKER CONNECTION BOX - PLASTIC A. RECESSED WALL-MOUNTED HIGH IMPACT POLYSTYRENE BOX AND FACEPLATE, WITH HEAVY DUTY MOUNTING STAPES, ADJUSTABLE FACEPLATE, AND BLASS COLD WATER VALVE WITH 0.5" SWEAT INLET AND 0.25" COMPRESSION OUTLET. a. MANUFACTURER: OATEY 39156, OR IPS A89700

PLUMBING FIXTURE SCHEDULE table with columns: NO., FIXTURE TYPE, PIPING CONNECTION SIZE (HW, CW, S OR W, -).

WATER HEATER SCHEDULE table with columns: NO., SERVICE, TYPE (NOTE 1), ENERGY SOURCE (SOURCE NOTE 2, CHARACTERISTICS), RECOVERY CAPACITY (NOTE 3), NOTES.

NOTES: 1. TYPE: I - INSTANTANEOUS 2. SOURCE: E - ELECTRIC 3. RECOVERY CAPACITY FOR WATER HEATER WH-1 IS BASED ON 100°F DIFFERENTIAL. 4. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS. 5. SET WATER HEATER DISCHARGE TEMPERATURE TO 140 °F. 6. WATER HEATER BASIS OF DESIGN: HUBBELL TX016-3R

Project information table including Project No. 11426.04, Issue Date 03/06/2020, Drawing By: Author, Checked By: Checker, and a large P0.00 scale indicator.

GENERAL

- 1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL 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 CONTRACT DOCUMENTS.
2. CONTRACT 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 CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
4. CONTRACT 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 CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION, FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
9. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
10. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
11. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
12. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
13. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.
14. STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OF CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
15. SUBMITTALS
15.1 SUBMITTALS BY THE CONTRACTOR ARE NOT A PART OF THE CONTRACT DOCUMENTS. PRIOR TO THE INITIAL SUBMITTAL, CONTRACTOR SHALL SUBMIT TO THE DESIGN PROFESSIONAL A SCHEDULE OF SUBMITTED INFORMATION.
15.2 SUBMITTALS SHALL BE ACCOMPANIED BY A TRANSMITTAL LETTER WITH THE FOLLOWING INFORMATION:
- PROJECT NAME
- CONTRACTOR'S NAME
- DATE SUBMITTED
- DESCRIPTION OF ITEMS SUBMITTED. IDENTIFY WORK AND PRODUCT BY SPECIFICATION SECTION
- NUMBER OF DRAWINGS AND OTHER PERTINENT DATA.
15.3 CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION ON THE SUBMITTAL TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP AND SIGN EACH SHEET OF SHOP DRAWINGS AND PRODUCT DATA, AND SIGN OR INITIAL EACH SAMPLE TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.
15.4 WORK REQUIRING SHOP DRAWINGS, WHETHER CALLED FOR BY THE CONTRACT DOCUMENTS OR REQUESTED BY THE CONTRACTOR, SHALL NOT COMMENCE UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE DESIGN PROFESSIONAL. WORK MAY COMMENCE IF THE CONTRACTOR VERIFIES THE ACCURACY OF THE DESIGN PROFESSIONAL'S CORRECTIONS AND NOTATIONS AND COMPLES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM AT CONTRACT TIME AT COPY OF THE MARKED STRUCTURAL SHOP DRAWINGS WITH THE DESIGN PROFESSIONAL'S REVIEW STAMP IS TO BE MAINTAINED AT THE JOB SITE.

CODE/DESIGN CRITERIA

- 1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
- INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
- THE EXISTING STRUCTURE, WITH PROPOSED MODIFICATIONS, HAS BEEN ANALYZED FOR GRAVITY AND LATERAL LOADS AND FOUND TO BE IN COMPLIANCE WITH IBC 3404 FOR ALTERATIONS TO AN EXISTING STRUCTURE.
2. GRAVITY LOADS
2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
- GENERAL 100 PSF
2.2 DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):
FLOOR:
- MISCELLANEOUS 5 PSF
- CEILING 4 PSF
- MEP 4 PSF
3. WIND LOADS:
- ULTIMATE DESIGN WIND SPEED, Vult = 106 MPH
- NOMINAL DESIGN WIND SPEED, Vdes = 83 MPH
- RISK CATEGORY: II
- EXPOSURE: C
- INTERNAL PRESSURE COEFFICIENT = +/- 0.18
4. EARTHQUAKE LOADS:
- RISK CATEGORY: II
- SEISMIC IMPORTANCE FACTOR: I = 1.0
- SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, Ss = 0.185
- 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S1 = 0.086
- SITE CLASS: D (ASSUMED)
- SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.198
- 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.137
- SEISMIC DESIGN CATEGORY: C
5. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:
FLOOR MEMBERS: DEAD LOAD L/240, LIVE LOAD L/360, DEAD + LIVE LOAD L/240
- WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS; (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER) NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
6. SPECIAL INSPECTIONS:
6.1 THE STRUCTURAL TESTING/INSPECTION AGENCY, SEE SPECIFICATION SECTION 014525, WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE CONCRETE AND STEEL CONSTRUCTION. SEE SPECIFICATION SECTIONS 014525 FOR A COMPLETE LIST OF WORK REQUIRING SPECIAL INSPECTIONS.
6.2 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL FRAMING, AND WALLS AND CLADDING.
6.3 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
6.4 THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6.5 SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
7. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:
2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:
- SLABS ON COMPOSITE DECK 3500 PSI
3. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS INCLUDING CROSSING UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS. ALL PIPES AND DUCTS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
5. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE DESIGN PROFESSIONAL.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE C.
- STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE C.
- STRUCTURAL CHANNELS, MISCELLANEOUS PLATES AND CONNECTION MATERIAL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
2. BOLTS AND ANCHORS:
2.1 BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE) WITH MINIMUM 3/4" DIAMETER A325 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW.
2.2 ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 AND SHALL BE HEADED RODS OR THREADED RODS WITH HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, GRADE A36, UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2009 (SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS).
2.3 EXPANSION ANCHORS SHALL HAVE BEEN EVALUATED BY THE ICC EVALUATION SERVICES, INC (ICC-ES) WITH A PUBLISHED EVALUATION REPORT. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 183 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. ALL ANCHORS SHALL BE APPROVED FOR RESISTING WIND AND SEISMIC LOADS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
2.4 ADHESIVE ANCHORS SHALL CONSIST OF AN ALL-THREAD STEEL ANCHOR WITH ADHESIVE CONFORMING TO ASTM D991-02, TYPE IV, GRADE 3 CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS. FOR STEEL MEMBERS WHOSE REACTIONS ARE NOT SHOWN, THE DESIGN REACTION SHALL BE OBTAINED FROM THE TABLES ENTITLED "MAXIMUM TOTAL UNIFORM LOAD" IN PART OF THE AISC "MANUAL OF STEEL CONSTRUCTION", FOURTEENTH (14TH) EDITION. THE DESIGN REACTION IS EQUAL TO THE TABULATED VALUE FOR COMPOSITE BEAMS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL. DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR.

STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN. SINGLE ANGLE CONNECTIONS ARE NOT ACCEPTABLE.

- 5. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY D1.1-10. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
6. SHEAR CONNECTORS SHALL BE 3/4" DIAMETER X 4-7/8" LONG HEADED STUDS UNLESS NOTED OTHERWISE.

METAL DECK

- 1. DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.
2. PROVIDE COMPOSITE FLOOR DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
- 2 INCH DEPTH
- 30 GAGE THICKNESS
- 0.326 IN3/FT SECTION MODULUS
- 0.403 IN4/FT MOMENT OF INERTIA
- 50,000 PSI YIELD STRESS
3. DECK IS SPECIFIED BASED ON A THREE SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITIONS.

COMPOSITE FLOOR CONSTRUCTION

- 1. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS NOTED OTHERWISE.
2. COMPOSITE FLOOR SLABS ARE TO BE FINISHED LEVEL. THE WEIGHT OF THE WET CONCRETE WILL CAUSE DEFLECTIONS OF THE STEEL FRAMING AND DECKING, THUS, CONCRETE OVERRUNS ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BASE BID.
3. COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. OBTAIN WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER FOR PLACEMENT OF EMBEDDED ITEMS, RECESSES OR DEPRESSIONS IN THE SLAB NOT SHOWN ON THE STRUCTURAL DOCUMENTS.
4. CONDUIT, PIPE, OR DUCT CAST WITHIN COMPOSITE SLAB SHALL NOT EXCEED 1 INCH IN OUTSIDE DIAMETER NOR ONE THIRD THE CONCRETE COVER THICKNESS. SHALL BE PLACED WITHOUT CROSSOVERS. SHALL HAVE AT LEAST 3/4 INCH OF CONCRETE COVER AND SHALL BE PLACED AT LEAST 18 INCHES APART UNLESS SPECIFICALLY DETAILED AND SHOWN IN STRUCTURAL DOCUMENTS. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE EFFECT OF CONDUIT, PIPE, OR DUCT NOT SPECIFICALLY SHOWN IN THE STRUCTURAL DOCUMENTS ON THE FULFILLMENT OF GOVERNING CODE REQUIREMENTS AND SPECIFIED FIRE RATINGS BY THE COMPOSITE SLAB SYSTEM.
5. PLACEMENT OF CONTROL JOINTS IN THE COMPOSITE FLOOR SLAB IS PROHIBITED.

55 Ivan Allen Jr. Blvd. Suite 100 Atlanta, GA 30308 T 404.688.3318 F 404.688.2255 www.asdsky.com

Veteran's Resource Center



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Table with 2 columns: NO., DATE. Row 1: 1, 3/6/2020, ISSUED FOR CONSTRUCTION. Includes a REVISIONS section with empty rows.

GENERAL NOTES

Table with 2 columns: PROJECT NO., ISSUE DATE, DRAWN BY, CHECKED BY, SHEET NUMBER. Values: 11426.04, 03/06/20, DCR, DM, S0.01

SECTION 051000 - STRUCTURAL STEEL

- PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Section includes fabrication and erection of structural steel indicated in the Contract Documents or otherwise required for proper completion of the work.
1.02 RELATED SECTIONS
A. Section 013300 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 053000 - Metal Decking.
1.03 REFERENCES
A. AISC - Code of Standard Practice for Steel Buildings and Bridges.
B. AISC - Standard Specification for Structural Steel Buildings, 14th Edition.
C. AISC - Specifications of Structural Joints using ASTM A325 or A490 Bolts approved by the Research Council on Structural Connections.
D. AWS D1.1 - Structural Welding Code.
E. AWS A5.1 - Specification for Carbon Steel Electrodes for Shield Metal Arc Welding.
F. AWS A5.5 - Specification for Low-Alloy Steel Covered Arc Welding Electrodes.
G. AWS A5.17 - Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding.
H. AWS A5.20 - Specification for Carbon Steel Electrodes for Flux Cored Arc Welding.
I. SSPC - Steel Structures Painting Manual.
J. ASTM A36 - Standard Specification for Structural Steel.
K. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
L. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
M. ASTM A780 - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings.
N. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.
O. ASTM A326 - Standard Specification for Structural Bolts, Heat Treated, 120/105 KSI Minimum Tensile Strength.
P. ASTM A490 - Standard Specification for Heat-Treated Structural Bolts, 150 KSI Minimum Tensile Strength.
Q. ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Tubing in Rounds and Shapes.
R. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
S. ASTM A992 - Standard Specification for Steel for Structural Shapes For Use in Building Framing.
T. ASTM F436 - Standard Specification for Hardened Steel Washers.
U. ASTM F344 - Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use.
1.04 SUBMITTALS
A. Contact Design Professional prior to detailing structural steel shop drawings.
B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
C. Submit shop drawings for review.
D. Shop drawings shall clearly indicate the profiles, sizes, ASTM Grade, spacings and locations of all structural steel members, including connections, attachments, anchorages, framed openings, sizes and types of fasteners, method of tightening fasteners, cambers, and the number, type and spacing of the headed shear connectors.
E. For connections and elements designed by the contractor, submit shop drawings and calculations sealed by an engineer licensed in the project state.
F. For record only, submit written welding procedures for each type of welded joint used in accordance with Appendix E of the AWS Structural Welding Code.
G. Maintain at construction office mill certification that the steel supplied meets the specifications.
H. Maintain at construction office certification that high strength bolts supplied meet the specifications.
I. Submit certification that the fabricator meets the required qualifications. If fabricator has to have an independent testing agency to inspect fabrication as required by these specifications, submit the name and qualifications of the independent testing agency.
J. For each approved fabricator that is exempt from Special Inspections of shop fabrications and implementation procedures in accordance with Section 1704.2 of the Building Code, submit "Fabricator's Certificate of Compliance". Provide copies of fabricator's certification or building code evaluation services report and fabricator's quality control manual.
K. Submit certification that the erector meets the required qualifications.
L. Upon request, submit the erection sequence and procedures to be used by the steel erector.
M. Manufacturer's recommendations for expansion anchor installation.
N. Manufacturer's recommendations for adhesive anchor installation.
1.05 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Anchor Bolts
a. Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
2. Welded Connections
a. Inspection shall be in accordance with AWS Structural Welding Code.
b. Visually inspect all field welded connections. Visual inspection of welded joints includes periodic examination of flup.
c. Ultrasonically inspect 100% of the complete penetration welds.
d. Review approved welding procedures. Verify that welding procedures are being adhered to during field welding.
e. Verify welder qualifications.
3. Bolted Connections
a. Inspection and testing shall be in accordance with AISC Specifications for Structural Joints using ASTM A325 or A490 Bolts.
b. Prior to visual and physical testing, tension testing using a calibration device (Skidmore-Wilhelm) must indicate tensions at least 5% in excess of the AISC minimum. Structural steel erector shall supply the tension calibration device.
c. Test a minimum of 10% of the bolted connections.

- PART 2 - PRODUCTS
2.01 ROLLED STEEL WIDE FLANGE AND WT SHAPES
A. Rolled steel wide flange shapes shall conform to ASTM A992.
2.02 ROLLED STEEL SHAPES, PLATES, AND BARS, EXCEPT WIDE FLANGE AND WT SHAPES
A. Rolled steel shapes, plates, and bars, except wide flange and WT shapes, shall conform to ASTM A36.
2.03 HIGH-STRENGTH FASTENERS
A. High-strength bolts shall conform to ASTM A325 or ASTM A490 as noted on the Structural Drawings.
B. Provide 3/4-inch minimum diameter bolts, unless noted otherwise.
C. Hardened steel washers shall conform to ASTM F436.
D. Spline-type tension control bolts, plain hardened washers and suitable nuts are an acceptable alternate design bolt assembly.
E. Do not use load indicating washers.
2.04 HEADED STUDS
A. Headed steel studs shall conform to the requirements of AWS D1.1.
B. Provide 3/4-inch diameter headed steel studs, unless noted otherwise.
C. Provide heat-resistant ceramic arc shields with studs.
2.05 EXPANSION ANCHORS
A. Expansion anchors shall have been evaluated by the ICC Evaluation Services, Inc. (ICC-ES) with a published evaluation report. Anchors shall be evaluated by ICC-ES Acceptance Criteria 193 and be specifically approved for use in cracked concrete. All anchors shall be approved for resisting wind and seismic loads.
2.06 ADHESIVE ANCHORS
A. Adhesive anchors shall consist of:
1. An all-thread steel anchor conforming to ASTM A307, Grade A or ASTM A36, zinc plated in accordance with ASTM B633, unless noted otherwise on the Structural Drawings, and
2. An adhesive conforming to ASTM C881-02, Type IV, Grade 3, CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two component adhesive system contained in side by side packaging connected to a mixing nozzle which thoroughly mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use in cracked concrete.
2.07 WELD ELECTRODES
A. E-70 series low hydrogen electrodes shall conform to AWS A5.1, A5.5, A5.17, or A5.20.
2.08 PAINT
A. Oxide primer shall conform to AISC Specifications, Code of Standard Practice, and SSPC Steel Structure Painting Manual, unless indicated otherwise.
B. Paint primer shall be free of lead and chromate and shall comply with State and Federal volatile organic compound (VOC) requirements.
C. Paint primer shall be compatible with finish coating.
2.09 GALVANIZING
A. Galvanized coating shall conform to ASTM A123.
B. Galvanize bolts, nuts, and washers in accordance with ASTM A153 when used to connect steel members that are specified to be galvanized.
C. Expansion anchors or adhesive anchors specified to be galvanized shall be mechanically galvanized in accordance with ASTM B695, Class 65, Type I.

PART 3 - EXECUTION

- 3.01 GENERAL
A. Fabricate and erect structural steel in accordance with AISC Specifications and Code of Standard Practice.
B. Notify Design Professional and Structural Testing/Inspection Agency at least 48 hours prior to structural steel fabrication and erection.
3.02 CONNECTIONS
A. Provide a minimum of two fasteners at each bolted connection.
B. Ensure fasteners are lubricated prior to installation.
C. Provide high-strength bolted connections in accordance with AISC Specifications for Structural Joints using ASTM A325 or A490 Bolts.
D. Provide connections for expansion and contraction where steel beams connect to concrete walls or concrete columns and at expansion joints. Secure nuts on bolts against loosening. (Dent threads with a chisel.)
3.03 FASTENER INSTALLATION
A. Bolts shall be installed in holes of the connection and brought to snug tight condition. Tighten connection progressing systematically from the most rigid part to the free edges of the connection to minimize relaxation of the bolts.
B. High-strength bolts installed shall have a hardened washer under the element turned in tightening.
C. Installation and tightening of bolts shall conform to the AISC Specifications for Structural Joints.
3.04 HEADED STUDS
A. Headed studs shall be welded in accordance with AWS D1.1.
B. Locate shear studs directly over the web of beams with flanges less than 0.3 inches thick.
C. The minimum center spacing shall be 6 diameters along the longitudinal axis of the beam and 4 diameters transverse to the longitudinal axis of the beam.
D. Where double rows of shear studs are required, begin double rows at each end of the beam.
E. Remove shields after welding studs.
3.05 EXPANSION ANCHOR INSTALLATION
A. Install in accordance with manufacturer's recommendation.
B. Minimum embedment shall be equal to 4.5 times the anchor diameter unless noted otherwise.
3.06 ADHESIVE ANCHOR INSTALLATION
A. Install in accordance with manufacturer's recommendation.
B. Minimum embedment shall be equal to 4.5 times the anchor diameter unless noted otherwise.
3.07 WELDING
A. Comply with AWS Structural Welding Code. Use prequalified weld procedures.
B. Provide end returns where fillet welds terminate at end or sides. Returns shall be continuous for a distance of not less than two times the nominal size of the weld.
C. Complete penetration joints shall be backgouged to sound metal before the second side is welded or have 1/4-inch root opening with 3/16 x 1 inch backing bar. Access holes are required. Filling access holes is not required.
D. Remove slag and weld spatter from deposited weld metal.
3.08 SPlicing
A. Splice members only where indicated unless authorized in writing by the Design Professional.
B. Provide slim plates at bottom flange splice at continuous beam splices with different depths.
3.09 CUTTING
A. Do not use flame cutting to correct errors unless authorized in writing.
B. Re-entrant corners shall have a minimum radius of one inch and be free of notches. Notches and gouges resulting from flame cutting shall be finished to a smooth appearance.
3.10 MILL SCALE
A. Remove loose mill scale.
3.11 BOLT HOLES
A. Cut, drill, or punch holes perpendicular to metal surfaces. Do not enlarge holes by burning. Drill or punch holes in bearing plates. Remove burrs.
3.12 PAINTING
A. Paint steel that is not encased in concrete, plaster, or sprayed fireproofing. Do not shop paint in areas to be field welded, contact surfaces of slip critical connections, or areas to receive special finishes.
B. Field paint as required steel that has been welded or that is unpainted after connections have been lightened.
3.13 GALVANIZING
A. Galvanize shelf angles that support the exterior building veneer, for example brick shelf angles.
B. Galvanize environmentally exposed steel, for example mechanical equipment supports.
C. Touch-up welds and abrasions in galvanized members in accordance with ASTM A780.

SECTION 053000 - METAL DECKING

- GENERAL
PART 1 - GENERAL
1.01 SECTION INCLUDES
A. Section includes metal decking as indicated on Drawings, specified herein, and needed for a complete and proper installation.
1.02 RELATED SECTIONS
A. Section 013300 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
C. Section 051000 - Structural Steel.
1.03 REFERENCES
A. AISI - Specifications for the Design of Cold-Formed Steel Structural Members.
B. AWS D1.1 - Structural Welding Code.
C. AWS A5.5 - Specifications For Low Alloy Steel Covered Arc-Welding.
D. SDI - Basic Design Specifications.
E. SDI - Steel Roof Deck Design Manual.
F. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvalume) by the Hot Dip Process.
1.04 SUBMITTALS
A. Notify the Design Professional prior to detailing shop drawings.
B. Submit detailed shop drawings showing layout and types of deck panels, weld sizes, weld patterns and conditions requiring closure panels, finishes, supplementary framing, sump pans, cant strips, cut openings, special jointing or other accessories. Include calculations and required information if not completely covered by load tables and products data.
C. Submit mill certification that the steel supplied meets the required specifications.
D. Submit written welding procedures.
E. Submit manufacturer's specifications, section properties, load tables, diaphragm shear tables, noise reduction coefficients (if applicable) and installation instructions for each type of decking and accessories. Include manufacturer's certifications to show compliance with supplementary framing, sump pans, cant strips, curb openings, special jointing and other accessories.
1.05 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Verify placement of deck for alignment and proper lap.
2. Verify welds for size and pattern.
1.06 STORAGE
A. Store materials off ground to permit easy access for inspection and identification. Store steel members and packaged items in a manner that provides protection against contact with deleterious materials.
PART 2 - PRODUCTS
2.01 GENERAL
A. Provide metal deck sheets of three spans minimum wherever possible.
B. Metal deck shall be designed to resist the design loads provided in the Contract Documents. The design of the metal deck shall be the sole responsibility of the deck supplier and its design engineer, licensed in the project state.
2.02 DECK ATTACHMENT
A. Use E-60 series electrodes conforming to AWS A5.5.
B. Provide weld washers for material thinner than 22 gauge.
2.03 COMPOSITE DECK
A. Composite deck formed from steel sheets having a minimum yield strength of 33,000 pounds per square inch shall conform to ASTM A653 or A1008.
B. Calculated theoretical deflections of the deck, as an unshored form, shall be based on the weight of the concrete (as determined by the design slab thickness) and the weight of the steel deck, uniformly loaded on all spans and shall be limited to L/160 or 3/4 inch, whichever is smaller. Deflections shall be relative to supporting members.
C. Bearing lengths shall be determined in accordance with the AISI specification. A uniform loading case of wet concrete plus deck weight plus 20 psf construction load shall be used.
D. Fresh unit weight of normal weight concrete shall be assumed to be 145 pcf. Fresh unit weight of structural-lightweight concrete shall be assumed to be 120 pcf. The total design load for the composite slab shall be 225 psf. Under only the superimposed live load the tensile stress of the deck, between supports, shall not exceed 0.6 times the yield strength of the steel. Under the combination of superimposed live load, the weight of the concrete and the weight of the deck, the tensile stress of the deck, between supports, shall not exceed 0.8 times the yield strength of the steel.
PART 3 - EXECUTION
3.01 GENERAL
A. Load conditions shall be in accordance with Steel Deck Institute sequential loading formulas.
B. Installer must examine the areas and conditions under which metal decking is to be installed and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.
3.02 PLACEMENT
A. Place steel deck units on supporting steel framework and adjust to final position before permanently fastening. Install deck units and accessories in accordance with manufacturer's recommendations and the Drawings, and as specified herein.
3.03 CUTTING
A. Cut holes in deck indicated by the Drawings. Other holes required shall be supplied by those requiring them. Obtain written authorization for additional holes and cutting not indicated on erection drawings.
3.04 WELDING
A. Perform welding in accordance with AWS Structural Welding Code.
B. Provide weld washers for deck thinner than 22 gauge.
3.05 CONCENTRATED LOADS
A. Do not hang concentrated loads exceeding 50 pounds from the deck.
3.06 DECK SUPPORTS
A. Fasten deck to steel framework at ends and at each intermediate support by welding according to manufacturer's specifications unless indicated otherwise on structural drawings or otherwise specified herein. Do not weld deck in place until all bolted and welded connections for the structural frame are complete. A minimum of one floor over the area to be decked is to be bolted and welded prior to welding deck in place.
3.07 COMPOSITE DECK
A. Place steel floor units in straight alignment. Maintain a maximum space of 1/4 inch between ends of abutting units. In no case shall the ridges of the composite deck be located over beams or girders unless parallel to the span of the deck.
B. Unless shown otherwise on the Drawings, weld panels in place with 3/4-inch puddle welds or shear connectors spaced at not more than twelve inches on center at each support. Fasten side laps with stitch welds 1-1/2 inches long not exceeding a spacing of two feet on center. Where two panels butt, fasten each unit with separate welds. Lapping ends of panels is not acceptable. Side laps may be fastened by screws or button punching if approved by the Design Professional.
C. Fasten closures securely in place with welds or screws at two feet on center to supports and adjacent panels.
D. Contractor may elect to shore deck to reduce deflection and overrun of concrete. Do not shore structural beams or girders unless indicated on Drawings or authorized in writing by Design Professional.
E. Cut holes in deck after concrete is in place.



55 Ivan Allen Jr. Blvd. Suite 100 Atlanta, GA 30308 T 404.688.3318 F 404.688.2255 www.asdsky.com

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Table with 2 columns: NO., DATE, REMARKS. Includes a REVISIONS section.

DRAWING TITLE: SPECIFICATIONS

PROJECT NO: 11426.04 ISSUE DATE: 03/06/20 DRAWN BY: Author CHECKED BY: Checker SHEET NUMBER:

S0.03

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	GT VETERANS RESOURCE CENTER	APPLICABLE TO THIS PROJECT			
		SERVICE	Y/N	EXTENT	AGENT* DATE COMPLETED
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements - add additional rows as needed.)	Submittal review, Shop (3) and/or field inspection				N
1. Inspection of anchors post-installed in solid grouted masonry. Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, and/or embedment and lightning torque	Field inspection	N	Periodic or as required by the research report issued by an approved source		
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection	N	Periodic or as required by the research report issued by an approved source		
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic		
3. Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table NS.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table NS.4-2)	Shop (3) and field inspection	Y	Observe (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table NS.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints: see Commentary					
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing	N	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing	Y	Periodic		
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	Y	Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table NS.6-1)		Y	Observe or Perform as noted (4)		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table NS.6-2)		Y	Observe (4)		
1) Pre-tensioned and slip-critical joints		N	Periodic		
a) Turn-of-nut with matching markings			Periodic		
b) Direct tension indicator			Periodic		
c) Twist-off type tension control bolt			Periodic		
d) Turn-of-nut without matching markings			Continuous		
e) Calibrated wrench			Continuous		
2) Snug-tight joints		Y	Periodic		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table NS.6-3)		Y	Perform (4)		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) and field inspection and testing	N	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	N	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic		
1705.2.2 Cold-Formed Steel Deck					
1. Manufacturer documents (Verify reports and certificates as listed in SDI QA/QC, Section 2, Paragraphs 2.1 and 2.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of steel deck, mechanical fasteners and welding materials	Shop (3) and field inspection	Y	Periodic		
3. Cold-formed steel deck placement:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.1)			Perform (4)		
b. Inspection tasks After Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.2)			Perform (4)		
4. Cold-formed steel deck welding:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)			Observe (4)		
b. Inspection tasks During Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.4)			Observe (4)		
c. Inspection tasks After Welding (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.5)			Perform (4)		

SCHEDULE OF SPECIAL INSPECTION SERVICES

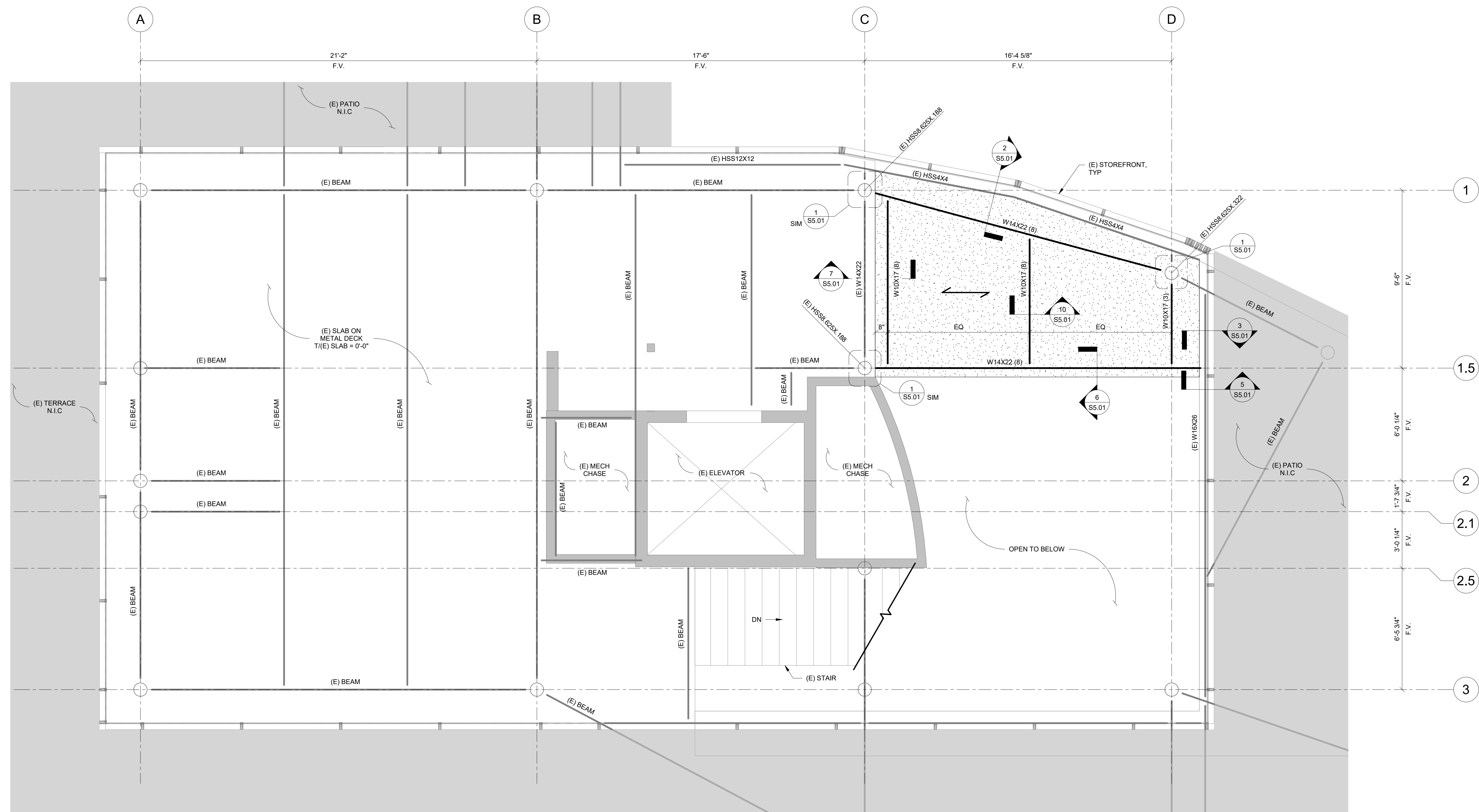
PROJECT	GT VETERANS RESOURCE CENTER	APPLICABLE TO THIS PROJECT			
		SERVICE	Y/N	EXTENT	AGENT* DATE COMPLETED
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection	Y			Observe (4)
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)					Observe (4)
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)					Perform (4)
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)					Perform (4)
1705.2.3 Open-Web Steel Joists and Joist Girders					
1. Installation of open-web steel joists and joist girders:	Field inspection	N			
a. End connections - welding or bolted	per SJI CJ or SJI 100		Periodic		
b. Bridging - horizontal or diagonal	per SJI CJ or SJI 100		Periodic		
2) Bridging that differs from the specifications listed in SJI CJ or SJI 100.			Periodic		
1705.2.4 Cold-Formed Steel Trusses Spanning 60 feet or Greater					
Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N			
1705.3 Concrete Construction					
1. Inspection and placement verification of reinforcing steel and prestressing tendons:	Shop (3) and field inspection	Y	Periodic		
2. Reinforcing bar welding:		Y	Periodic		
a. Verification of weldability of bars other than ASTM A706			Periodic		
b. Inspection of single-pass fillet welds 5/16" or less in size.			Periodic		
c. Inspection of all other welds.			Continuous		
3. Inspection of anchors cast in concrete:	Shop (3) and field inspection	N	Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and lightning torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source		
a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads			Continuous		
b. Mechanical and adhesive anchors note defined in 4a.			Periodic		
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
8. Prior to placement, fresh concrete sampling, perform slump and air content tests and determine temperature of concrete and perform any other tests as specified in construction documents.	Shop (3) and field inspection	Y	Continuous		
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y	Continuous		
8. Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic		
9. Inspection of prestressed concrete:	Shop (3) and field inspection	N			
a. Application of prestressing force			Continuous		
b. Grouting of bonded prestressing tendons			Continuous		
10. Inspect erection of precast concrete members		N	Periodic		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	N	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	N	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic		
1705.4 Masonry Construction					
MINIMUM VERIFICATION REQUIREMENTS					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review	N	Prior to Construction		
(B) Level 2 & 3 Quality Assurance:					
1. Prior to construction verification of m and FAAC except where specifically required by the code	Testing by unit strength method or prism test method	N	Prior to Construction		
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	Testing by unit strength method or prism test method	N	Periodic		
(C) Level 3 Quality Assurance:					
1. During construction, verification of m and FAAC for every 5,000 SF	Testing by unit strength method or prism test method	N	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	Field inspection	N	Periodic		
MINIMUM SPECIAL INSPECTION REQUIREMENTS					
(D) Levels 2 and 3 Quality Assurance:					
1. As masonry construction begins, verify that the following are in:					
a. Proportions of the site-prepared mortar	Field inspection	N	Periodic		
b. Grade and size of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field inspection	N	Periodic		
d. Prestressing technique	Field inspection	N	Periodic		
e. Properties of thin-bed mortar for AAC masonry	Field inspection	N	Level 2 - Periodic (b)		
		N	Level 2 - Periodic (c)		
		N	Level 3 - Continuous		
		N	Level 2 - Periodic (a)		
		N	Level 3 - Continuous		
f. Sample panel construction	Field inspection	N	Level 3 - Continuous		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	GT VETERANS RESOURCE CENTER	APPLICABLE TO THIS PROJECT			
		SERVICE	Y/N	EXTENT	AGENT* DATE COMPLETED
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field inspection	N	Level 2 - Periodic		
b. Placement of prestressing tendons and anchorages	Field inspection	N	Level 3 - Continuous		
c. Placement of reinforcement, connectors, and anchor bolts	Field inspection	N	Level 2 - Periodic		
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	Field inspection	N	Level 3 - Continuous		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection	N	Periodic		
b. Placement of masonry units and mortar joint construction	Field inspection	N	Periodic		
c. Size and location of structural members	Field inspection	N	Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection	N	Level 2 - Periodic		
e. Welding of reinforcement	Field inspection	N	Level 3 - Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field inspection	N	Periodic		
g. Application and measurement of prestressing force	Field testing	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field inspection	N	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints	Field inspection	N	Level 2 - Periodic (b)		
(b) Required after the first 5,000 square feet			Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
1705.5 Wood Construction					
1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	N	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans	Field inspection	N	Periodic		
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses:		N			
a. Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60'	Field inspection	N	Periodic		
b. For trusses spanning 60 feet or greater, verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.6 Soils					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	N	Periodic		
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	N	Periodic		
3. Perform classification and testing of controlled fill materials.	Field inspection	N	Periodic		
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	N	Continuous		
5. Prior to placement of controlled fill, observe substrate and verify that site has been prepared properly	Field inspection	N	Periodic		
1705.7 Driven Deep Foundations					
1. Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
2. Determine capacities of test elements and conduct additional load tests, as required	Field inspection	N	Continuous		
3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	Field inspection	N	Continuous		
5. For steel elements, perform additional inspections per Section 1705.2	See Section 1705.2	N	See Section 1705.2		
6. For concrete elements and concrete-filled elements, perform additional inspections per Section 1705.3	See Section 1705.3	N	See Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In accordance with construction documents		
1705.8 Cast-in-Place Deep Foundations					
1. Inspect drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
1705.9 Helical Pile Foundations					
Verify installation equipment, pile dimensions, to elevations, final depth, final installation torque and other installation data as required by construction documents	Field inspection	N	Continuous		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	GT VETERANS RESOURCE CENTER	APPLICABLE TO THIS PROJECT			
		SERVICE	Y/N	EXTENT	AGENT* DATE COMPLETED
1705.10 Fabricated Items					
1. List of fabricated items requiring special fabrication during fabrication:	Shop inspection	N	As noted in each applicable shop activity		
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):		N			
1705.11.1 Structural Wood Special Inspections For Wind Resistance					
1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
1705.11.2 Cold-Formed Steel Special Inspections For Wind Resistance					
1. Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
2. Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	N	Periodic		
1705.11.3 Wind-resisting Components					
1. Roof covering, roof deck and roof framing connections	Shop (3) and field inspection	N	Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	N	Periodic		
1705.12.1 Structural Steel Special Inspections for Seismic Resistance					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	N	In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1, including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	In accordance with AISC 341		
1705.12.2 Structural Wood Special Inspections for Seismic Resistance					
1. Field gluing operations of elements of the seismic-force resisting system for SDC C, D, E or F.	Field inspection	N	Continuous		
2. Nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system including wood shear walls, wood diaphragms, drag struts, shear panels and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.12.3 Cold-Formed Steel Light-Frame Construction Special Inspections for Seismic Resistance					
1. During welding operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
2. Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.12.4 Designated Seismic Systems Verification					
For SDC C, D, E or F, inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with ASCE 7 Section 13.2.2	Field inspection	N	Periodic		
1705.12.5 Architectural Components Special Inspections for Seismic Resistance					
1. For SDC D, E or F, inspection during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and weighing more than 5 psf.	Field inspection	N	Periodic		
2. For SDC D, E or F, inspection during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15 psf.	Field inspection	N	Periodic		
3. For SDC D, E or F, inspection during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking surface.		N			
4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection	N	Periodic		
1705.12.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
1. Inspection during the anchorage of electrical equipment for emergency or standby power systems in SDC C, D, E or F.	Field inspection	N	Periodic		
2. Inspection during the anchorage of other electrical equipment in SDC E or F.	Field inspection	N	Periodic		
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units in SDC C, D, E or F.	Field inspection	N	Periodic		
4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials SDC C, D, E or F.	Field inspection	N	Periodic		
5. Inspection during the installation and anchorage of vibration isolation systems in SDC C, D, E or F where nominal clearance of 1/4 inch or less is required by the approved construction documents	Field inspection	N	Periodic		
6. Inspection during installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to SDC C, D, E, or F to verify one of the following unless flexible sprinkler hose fittings are used:					
a. ASCE/SEI 7, Section 13.2.3 minimum required clearances have been provided.	Field inspection	N	Periodic		
b. A three inch or greater nominal clearance has been provided between fire protection sprinkler system drops and sprigs and: structural members not used collectively or independently to support the sprinklers; equipment attached to the building structure; and other systems' piping	Field inspection	N	Periodic		
1705.12.7 Storage Racks Special Inspections for Seismic Resistance					
Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDC D, E or F.	Field inspection	N	Periodic		
1705.12.8 Seismic Isolation Systems					



1 UPPER LEVEL 02 FRAMING PLAN
S1.01 3/8" = 1'-0"

- NOTES:
- SEE S0.01 FOR STRUCTURAL GENERAL NOTES.
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
 - DECK BEARING ELEVATION 4'-6 1/2" RELATIVE TO EXISTING UPPER LEVEL 02 REFERENCE ELEVATION = 0'-0" UNO.
 - INDICATES DIRECTIONAL SPAN OF 2" 20 GA COMPOSITE FLOOR DECK W/ 4 1/2" CONCRETE (6 1/2" TOTAL DEPTH) W/ WWF 6x6 W2.9xW2.9. SEE 4/S5.01.
 - (X) INDICATES NUMBER OF 3/4" Ø HEADED STUDS EQUALLY SPACED. SEE 19/S5.01.
 - MAXIMUM ALLOWABLE SHEAR REACTION = 10 KIPS



SHEAR
STRUCTURAL
831 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
878.864.8051
SHEARSTRUCTURAL.COM

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NO.	DATE	ISSUED FOR CONSTRUCTION	REMARKS
1	3/6/2020	ISSUED FOR CONSTRUCTION	

REVISIONS

DRAWING TITLE:
UPPER LEVEL 02 FRAMING PLAN

PROJECT NO: 11426.04
ISSUE DATE: 02/26/20
DRAWN BY: DCR
CHECKED BY: DM

SHEET NUMBER:
S1.01



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831 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
878.864.8051
SHEARSTRUCTURAL.COM

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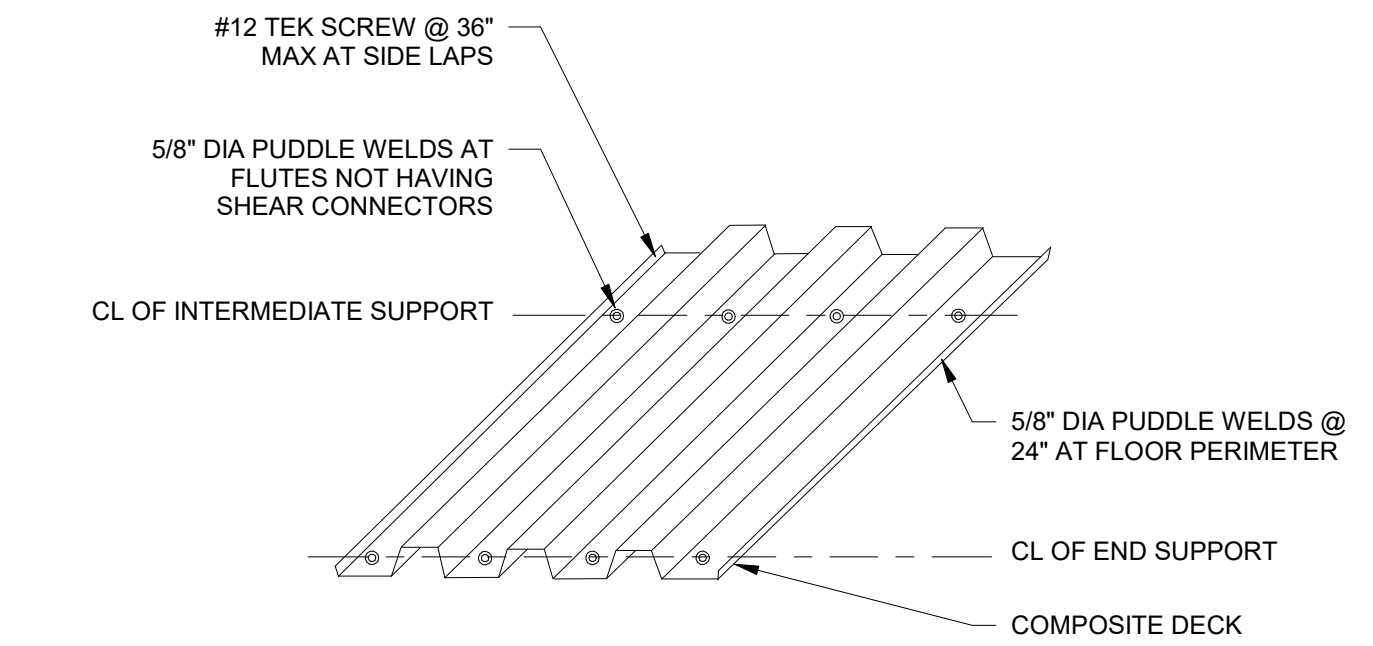
NO.	DATE	ISSUED FOR CONSTRUCTION	REMARKS
1	3/6/2020	ISSUED FOR CONSTRUCTION	

DRAWING TITLE: **STEEL FRAMING DETAILS**

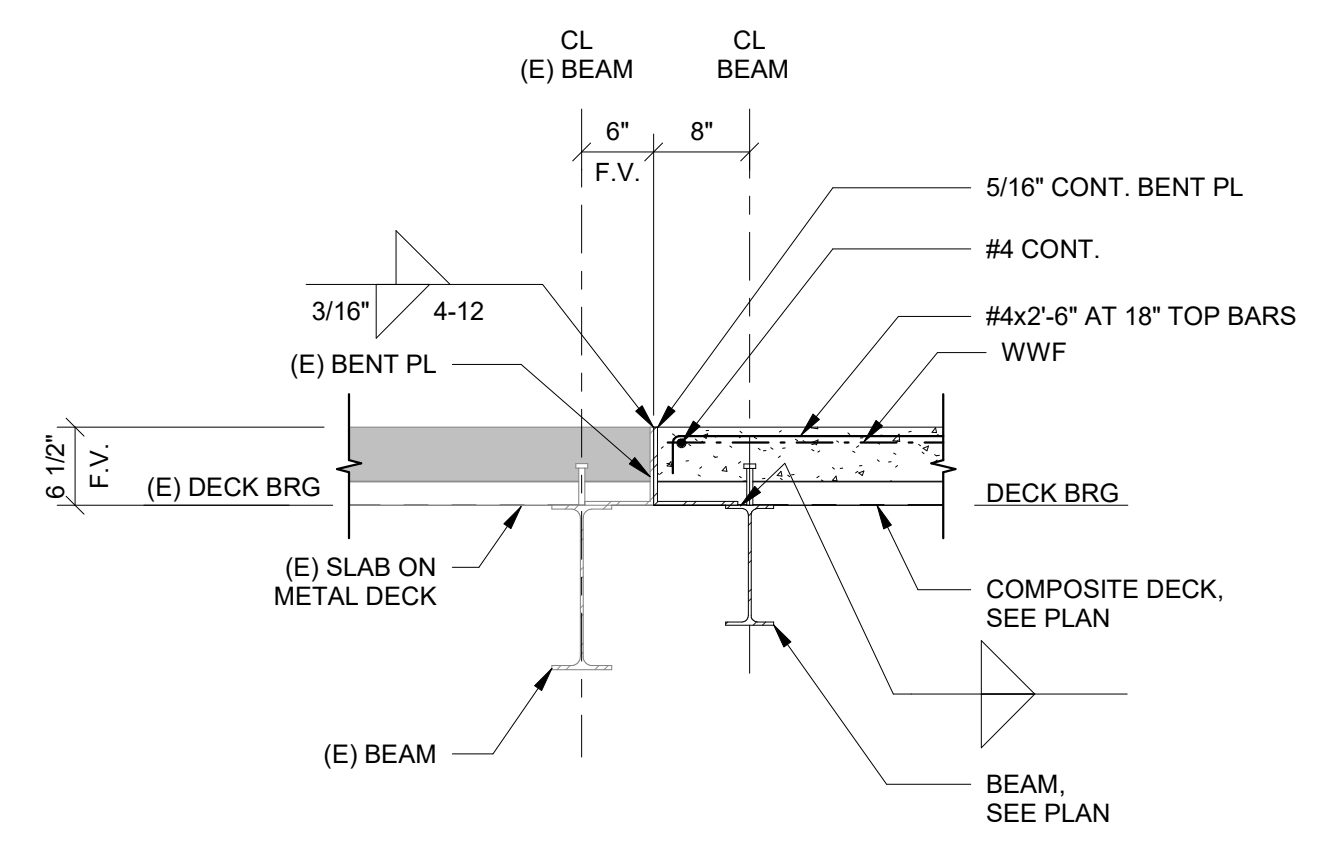
PROJECT NO:	ISSUE DATE:
11426.04	02/27/20
DRAWN BY:	CHECKED BY:
DCR	DM
SHEET NUMBER:	

S5.01

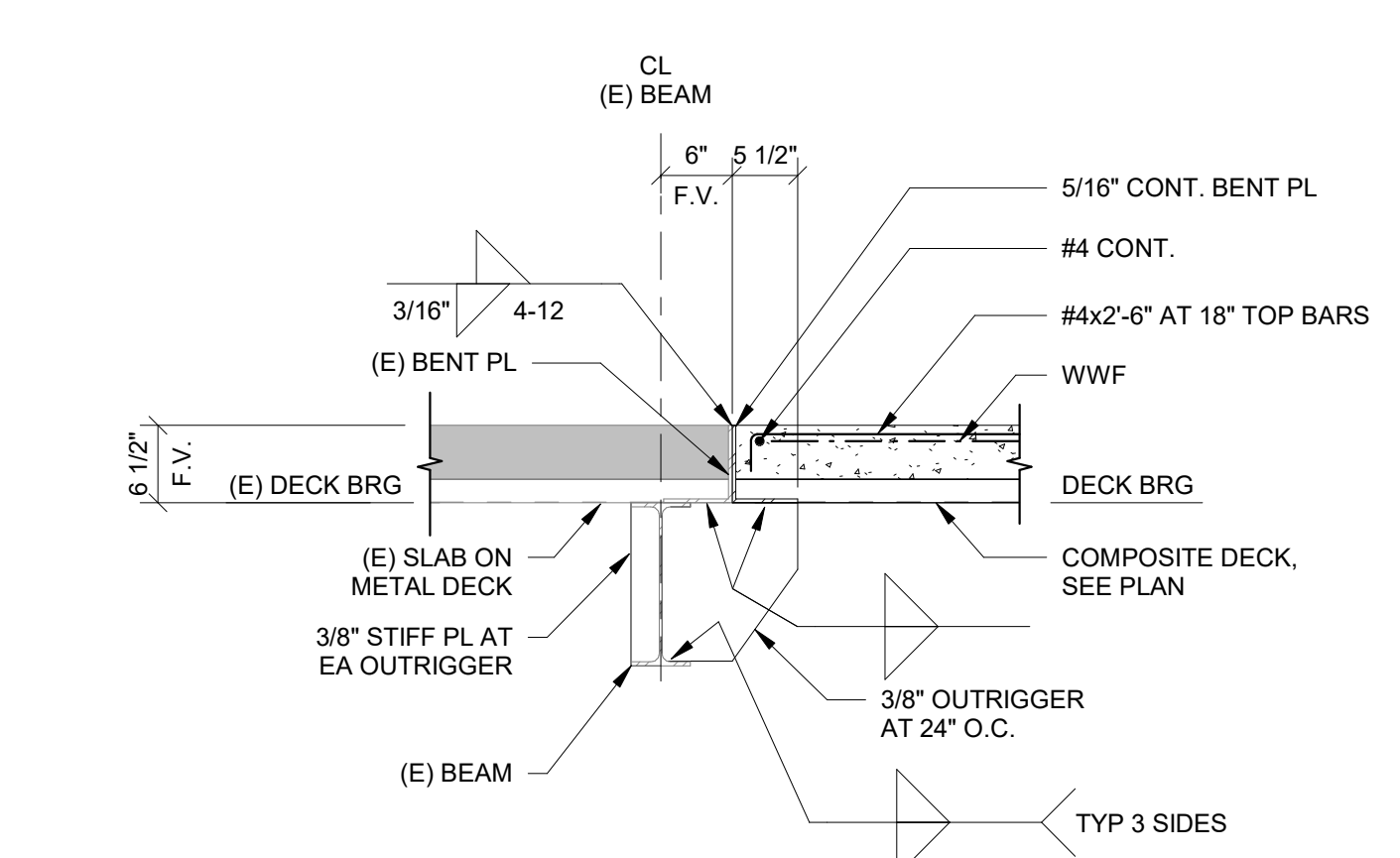
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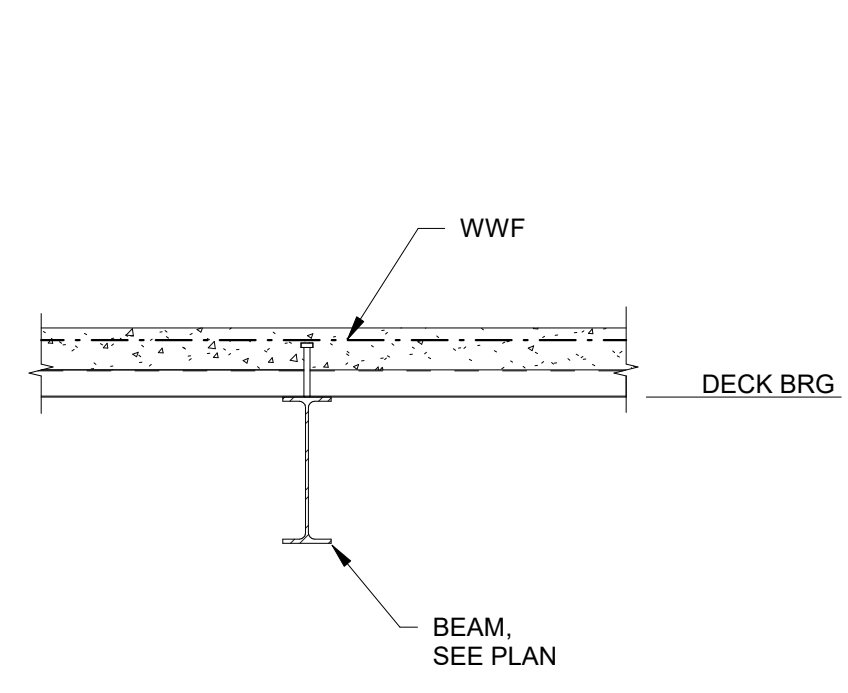
4 TYPICAL FLOOR DECK ATTACHMENT (5/8\"/>



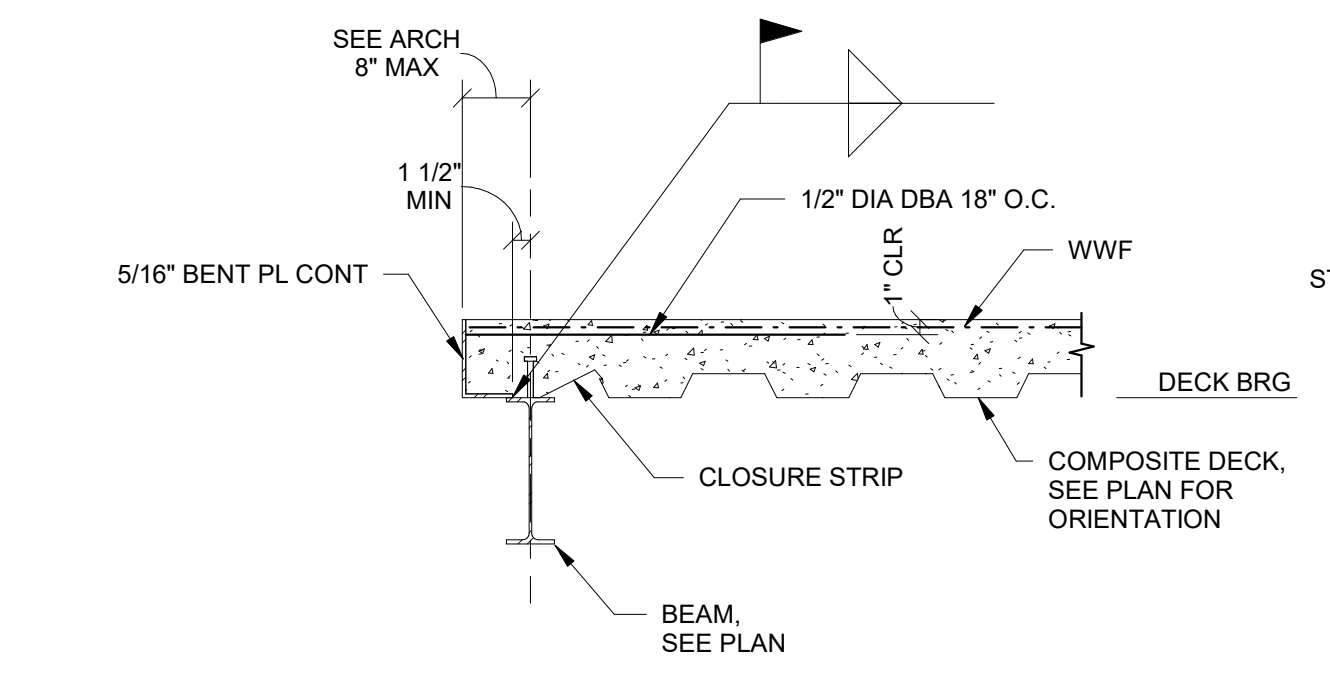
7 EXISTING SLAB SECTION
3/4\"/>



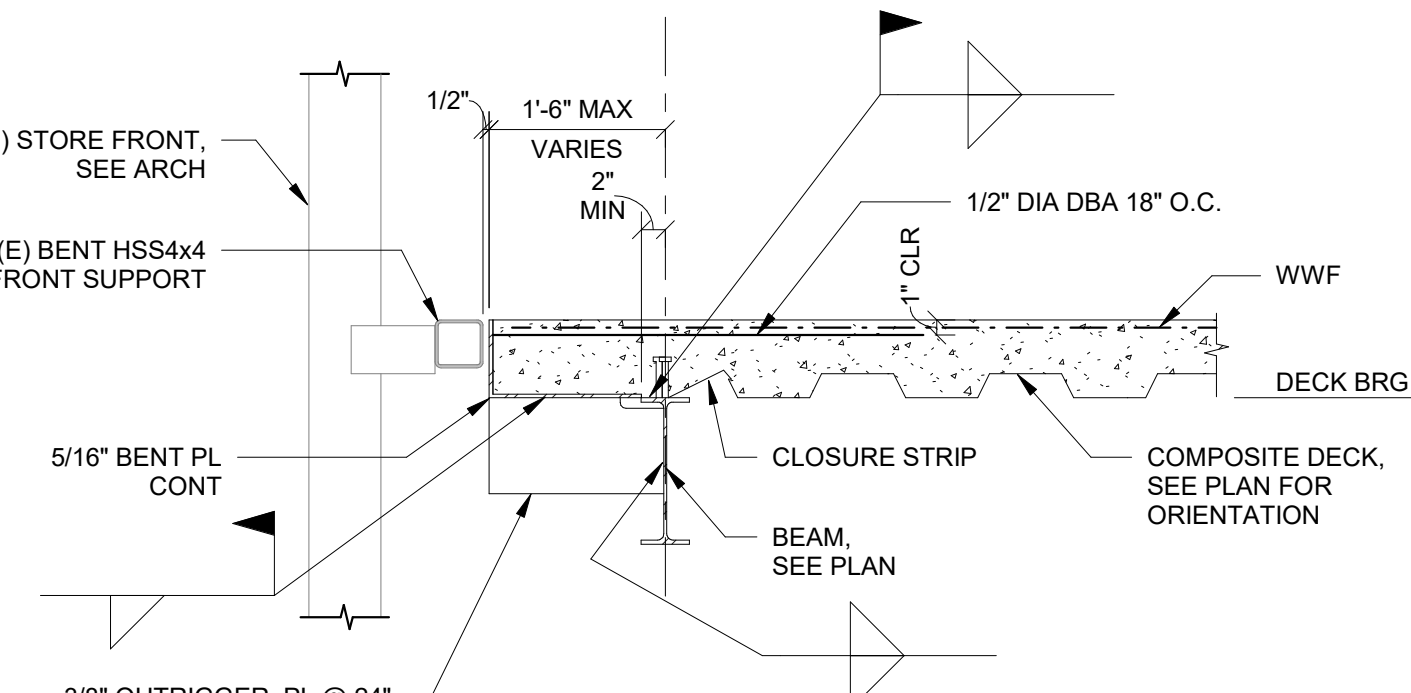
3 SECTION AT EXISTING SLAB
3/4\"/>



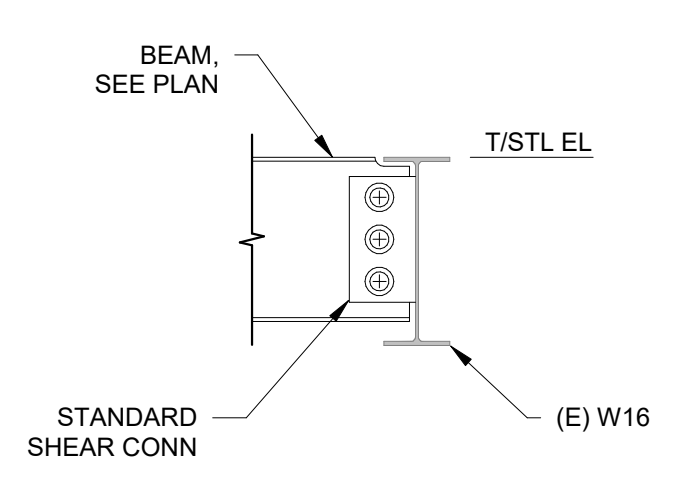
10 TYPICAL COMPOSITE SLAB AT INTERIOR BEAM
3/4\"/>



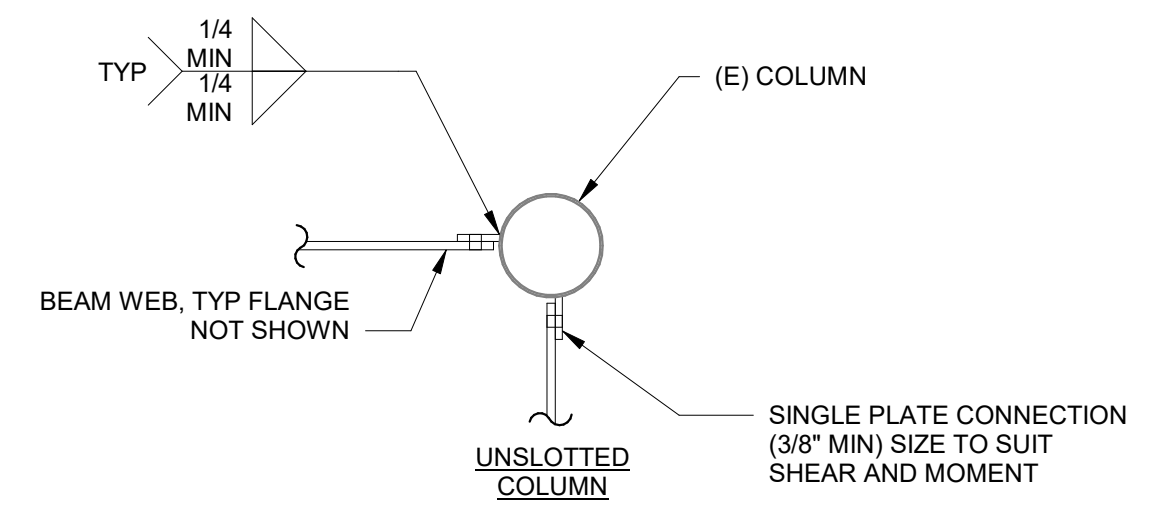
6 SLAB EDGE AT INTERIOR
3/4\"/>



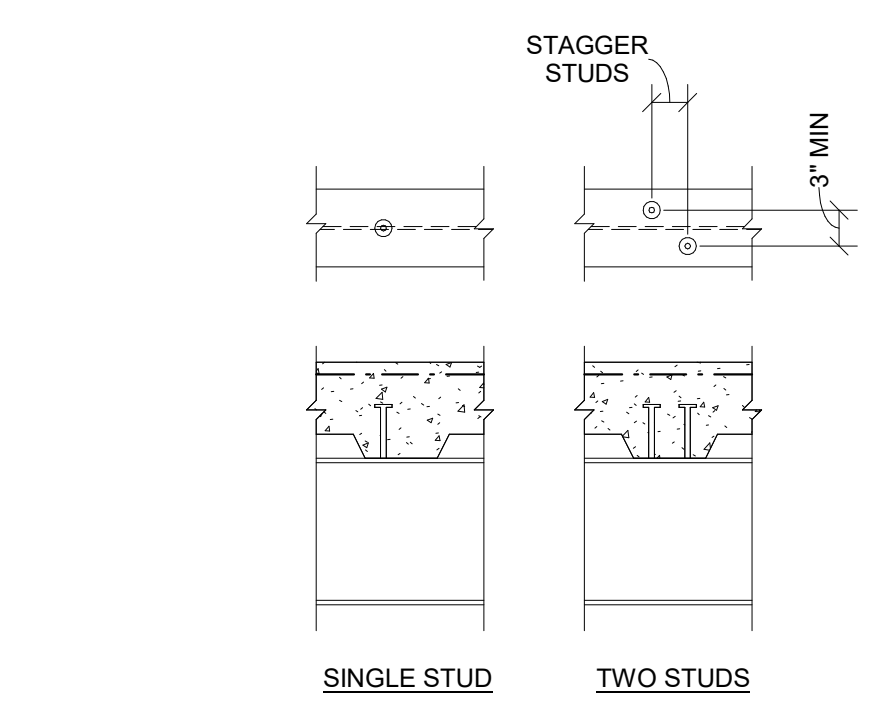
2 SLAB EDGE AT EXISTING STOREFRONT
3/4\"/>



5 CONNECTION TO EXISTING BEAM
3/4\"/>



1 TYPICAL TUBE COLUMN CONNECTIONS
3/4\"/>



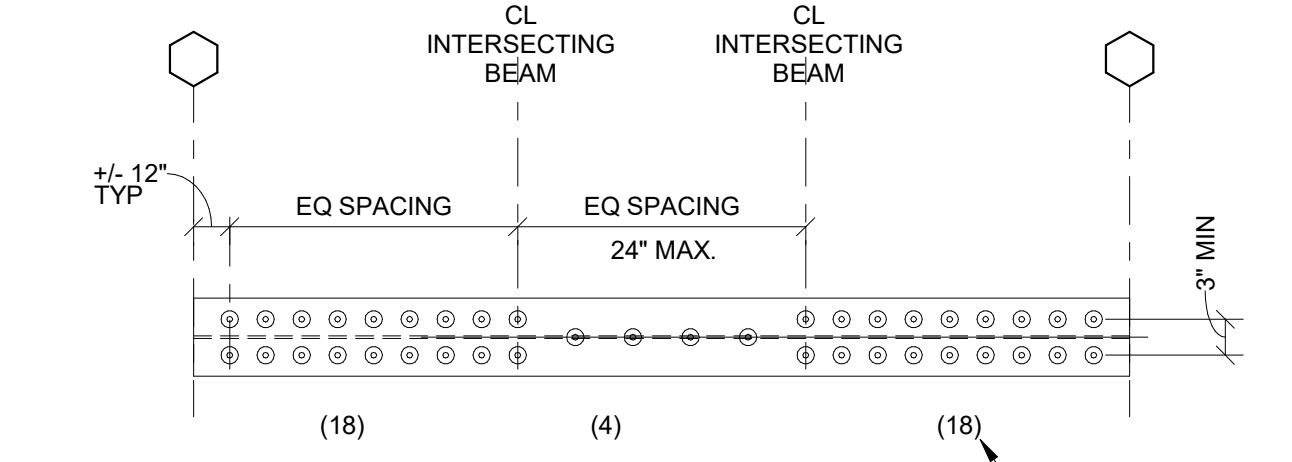
DECK PERPENDICULAR TO BEAMS

CASE 1: FEWER STUDS THAN FLUTES

PLACE ONE STUD IN EVERY OTHER FLUTE FOR ENTIRE LENGTH OF BEAM. IF STUDS REMAIN, PLACE IN FLUTES NOT ALREADY HAVING A STUD, STARTING AT BEAM ENDS AND CONTINUING TOWARD BEAM CENTER. MAXIMUM SPACING ALLOWED IS 24\"/>

CASE 2: MORE STUDS THAN FLUTES

PLACE ONE STUD IN EACH FLUTE FOR ENTIRE LENGTH OF BEAM. IF STUDS REMAIN, PLACE A SECOND STUD IN FLUTES, STARTING AT BEAM ENDS AND CONTINUING TOWARD CENTER.



DECK PARALLEL TO BEAM

CASE 3: GIRDER WITH SEGMENTED STUD SPACING

PLACE SPECIFIED NUMBER OF STUDS IN EACH SEGMENT OF GIRDER AT EQUAL SPACES. IF SPACING IS LESS THAN 4 1/2\", USE DOUBLE ROW AS REQUIRED.

CASE 4: UNIFORM STUD SPACING

PLACE A SINGLE ROW OF STUDS ALONG GIRDER AT EQUAL SPACING. IF SPACING IS LESS THAN 4 1/2\", USE DOUBLE ROW AS REQUIRED, STARTING AT BEAM ENDS.

19 TYPICAL STUD PLACEMENT AT METAL DECK
3/4\"/>

EXAMPLE STUD LAYOUT ONLY FOLLOW SPECIFIED NO OF STUDS SHOWN ON PLAN