PROJECT SCOPE

1. STRUCTURAL SCOPE IS LIMITED TO ANALYSIS OF EXISTING BUILDING FOR LOADS IMPARTED BY NEW MECHANICAL AND ELECTRICAL EQUIPMENT, NEW MECHANICAL DUCTWORK AND DESIGN OF REQUIRED STRENGTHENING DETAILS.

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 AND ELECTRICAL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
7. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL AND ELECTRICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL AND ELECTRICAL EQUIPMENT IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
11. 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.
12. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
14. 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.
15. 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.
16. SUBMITTALS

    16.1 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.

    16.2 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.

    16.3 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.

    16.4 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 COMPLIES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM OR 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. STRUCTUAL COMPONENTS ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
    - INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
2. GRAVITY LOADS

    2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

    - GENERAL OFFICE AREAS 50 PSF
    - LOBBIES AND FIRST FLOOR CORRIDORS 100 PSF
    - CORRIDORS ABOVE FIRST FLOOR 80 PSF
    - ELECTRICAL AREAS 125 PSF
    - MECHANICAL AREAS 100 PSF

    2.2 DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):

    FLOOR:
    - MISCELLANEOUS 5 PSF
    - CEILING/MEP 10 PSF
3. EARTHQUAKE LOADS:
    - RISK CATEGORY: II
    - SEISMIC IMPORTANCE FACTOR: I = 1.0
    - SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, $S_S = 0.24$
    - 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, $S_1 = 0.093$
    - SITE CLASS D (ASSUMED)
    - SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, $S_{DS} = 0.21$
    - 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, $S_{D1} = 0.13$
    - SEISMIC DESIGN CATEGORY: B
4. THE EXISTING STRUCTURE, WITH PROPOSED MODIFICATIONS, HAS BEEN ANALYZED FOR GRAVITY AND LATERAL LOADS AND FOUND TO BE IN COMPLIANCE WITH IBC 2012 SECTION 3403 AND 3404 FOR ADDITIONS AND ALTERATIONS TO AN EXISTING STRUCTURE.
5. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:

	DEAD LOAD	LIVE LOAD	DEAD + LIVE LOAD
FLOOR MEMBERS:	L/360	L/360	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 DEFECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
- THE CALCULATED DEFLECTION FOR INDIVIDUAL MEMBERS SUPPORTING MASONRY DO NOT EXCEED L/600 FOR DESIGN LOADS APPLIED AFTER THE INSTALLATION OF THE MASONRY.

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 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.

    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 APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.

    6.6 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.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.
    - STRUCTURAL STEEL HSS SHAPES SHALL CONFORM TO ASTM A500, GRADE C.
    - 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 F3125 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2014 (SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS).

    2.2 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 193 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.

    2.3 ADHESIVE ANCHORS SHALL CONSIST OF AN ALL-THREAD STEEL ANCHOR WITH 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 (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 DESIGNED FOR THE SERVICE LOAD REACTION OF 10 KIPS UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS. 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/D1.1M-2015. "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. STEEL BAR GRATING SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:

    6.1 STEEL BAR GRATING SHALL BE RECTANGULAR TYPE WITH WELDED CROSS BARS.

    6.2 BEARING BARS SHALL BE 1-1/2" DEEP X 3/16" THICK SPACED AT 1-3/16" C/C WITH CROSS BARS SPACED AT 4" C/C. STEEL BAR MATERIAL SHALL CONFORM TO ASTM A569.

    6.3 GRATING SURFACE SHALL BE PLAIN.

    6.4 GRATING FINISH TO BE STANDARD SHOP COAT PAINT.

    6.5 FASTEN GRATING TO STEEL SUPPORTS WITH SADDLE CLIP AND SELF-DRILLING FASTENER AT EVERY SIXTH BEARING BAR ALONG SUPPORT (MIN. OF 2 CLIPS PER PANEL).

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 4000 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. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
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.
6. CONCRETE MIX DESIGN FOR 4000 PSI CONCRETE SHALL BE BASED ON A MAXIMUM AGGREGATE SIZE OF 1 IN. MAXIMUM WATER/CEMENT RATIO OF .50 FOR NON-AIR-ENTRAINED CONCRETE AND .45 FOR AIR-ENTRAINED CONCRETE AND A MAXIMUM SLUMP OF 5 IN. AIR ENTRAINED CONCRETE SHALL BE USED FOR EXTERIOR EXPOSED CONCRETE WITH AN AIR CONTENT BETWEEN 3 AND 6 PERCENT, UNO.
7. CONCRETE SLABS ON GRADE SHALL NOT BE LOADED UNTIL A MINIMUM CONCRETE STRENGTH OF 1800 PSI HAS BEEN ATTAINED AND THE CONCRETE IS AT LEAST THREE DAYS OLD. ALL OTHER CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE DESIGN STRENGTH HAS BEEN ATTAINED.
8. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND THE SPECIFICATIONS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM CONCRETE SPECIMENS SHALL BE TAKEN FOR EVERY 100 YARDS OR PORTION THEREOF FOR EACH MIX DESIGN PLACED IN A DAY. CONCRETE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION.
9. UNLESS NOTED OTHERWISE, ALL REINFORCING SHALL BE CONTACT LAP SPLICED WITH A CLASS B SPLICE IN ACCORDANCE WITH ACI 318-14. SPLICE LENGTHS SHALL BE INCREASED BY A FACTOR OF 1.3 FOR TOP REINFORCEMENT. LAP WELDED WIRE FABRIC (WWF) ONE SPACE PLUS 2 IN. ON ALL SIDES AT SPLICES. ALL BARS SHALL BE SUPPORTED BY BAR SUPPORTS CONFORMING TO CRSI SPECIFICATIONS. SUPPORT SPACING OF BARS SHALL NOT EXCEED 4 FEET. SUPPORT SPACING OF WWF SHALL NOT EXCEED 2 FEET.
10. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A CHAMFER OR RADIUS OF 3/4”, UNLESS NOTED OTHERWISE.
11. CONCRETE SHALL RECEIVE THE FOLLOWING FINISHES:
    - INTERIOR EXPOSED SLABS (UNO OR REQUESTED BY THE OWNER): STEEL TROWEL FINISH
    - ALL OTHER CONCRETE: STEEL TROWEL FINISH
12. MAINTAIN CONCRETE AFTER PLACEMENT WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE (NOT LESS THAN 7 DAYS). COMPLY WITH THE REQUIREMENTS OF ACI 308- STANDARD PRACTICE FOR CURING CONCRETE; AMERICAN CONCRETE INSTITUTE. A COMBINATION CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS REMOVED. COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C1315.

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF 8".
3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL.
5. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

    5.1 CONCRETE REINFORCEMENT COVER

    EXPOSED TO EARTH OR WEATHER:
    - UNFORMED CAST AGAINST EARTH 3” CLEAR
    - FORMED #6 AND LARGER 2” CLEAR
    - FORMED #5 AND SMALLER 1-1/2” CLEAR

    NOT EXPOSED TO EARTH OR WEATHER:
    - WALLS 1" CLEAR
    - COLUMNS (TIES) 1-1/2" CLEAR
    - BEAMS/GIRDERS (STIRRUPS) 1-1/2" CLEAR
    - PT BEAMS/GIRDERS (STIRRUPS) 1-1/2" CLEAR
    - SLABS 3/4" CLEAR

    IN AGGRESSIVE ENVIRONMENTS (SEE SPECIFICATIONS FOR DEFINITION):
    - WALLS 1-1/2" CLEAR
    - COLUMNS 2" CLEAR
    - BEAMS/GIRDERS 2" CLEAR
    - SLABS: TOP 1-1/2" CLEAR
      BOTTOM 3/4" CLEAR
6. REINFORCING STEEL DESIGNATED CONTINUOUS SHALL BE LAPPED AS FOLLOWS:
    - CONCRETE REINFORCEMENT: CLASS B TENSION LAP
7. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL CONFORM 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. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
8. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.
9. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS, UNLESS SHOWN OTHERWISE IN DETAILS.

ABBREVIATIONS

ABT	ABOUT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL/ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
C/C	CENTER TO CENTER
CALC	CALCULATION(S)
CHKD	CHECKED
CIP	CAST-IN-PLACE CONCRETE
CJ	CONSTRUCTION CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR, CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR	CENTER
CTRD	CENTERED
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DL	DEAD LOAD
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE, GAUGE
GALV	GALVANIZED (HOT DIP)
GRTG	GRATING
(H)	HORIZONTAL BEAM ORIENTATION
HCA	HEADED CONCRETE ANCHOR
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HSB	HIGH STRENGTH BOLT
IF	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INT	INTERIOR
JT	JOINT
K	KIP(S)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
(LLH)	LONG LEG HORIZONTAL (ANGLE)
(LLV)	LONG LEG VERTICAL (ANGLE)
(LSH)	LONG SIDE HORIZONTAL (HSS)
(LSV)	LONG SIDE VERTICAL (HSS)
LB	POUND
LF	LINEAR FEET
LL	LIVE LOAD
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LWC	LIGHT WEIGHT CONCRETE
M	MOMENT
MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MFC	MANUFACTURED
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
N&F	NEAR AND FAR
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO/NO.	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSH	OVERSIZED HOLE
PCF	POUNDS PER CUBIC FOOT
PE	PROFESSIONAL ENGINEER
PERIM	PERIMETER
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLCS	PLACES
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RET	RETURN
REV	REVISION
RO	ROUGH OPENING
RTU	ROOFTOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SPCS	SPACES
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SSH	SHORT SLOTTED HOLE
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T/O	TOP OF
THK	THINK
THRU	THROUGH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WITH
W/O	WITHOUT
WP	WORKING POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC

WSP USA Buildings Inc.
3340 Peachtree Road, NE,
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wsp.com

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(678) 664-8051
Shearstructural.com

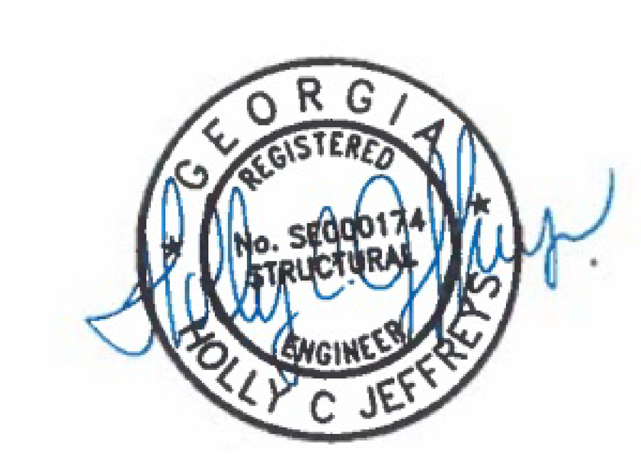
Grady Legal Hall HVAC Modifications and Health Equity Suite Renovation
36 Jesse Hill Jr. Dr. SE
Atlanta, Georgia

PROJECT NORTH

Issue	Date & Description		By
	03/26/2025	ISSUED FOR CONSTRUCTION	KH/HJ

Drawn by **Author** Reviewed by **Checker**

Seal/Signature



Project
GRADY LEGAL HALL HVAC MODIFICATIONS AND HEALTH EQUITY SUITE RENOVATION

Project Number
24.187.03

Sheet Title
STRUCTURAL GENERAL NOTES

Scale
3/4" = 1'-0"

Sheet Number
S00.01

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: GRADY LEGAL HALL HEALTH EQUITY SUITE RENOVATION
LOCATION: 36 JESSE HILL JR DR SE ATLANTA, GEORGIA
PERMIT APPLICANT: JON RICHEY, JON.RICHEY@WSP.COM, 470-496-1799. ALTERNATE CONTACT: TAURUS LIGON, T.LIGON@GMH.EDU, 470-974-4497
APPLICANT'S ADDRESS: WSP USA, 3348 PEACHTREE ROAD, NE, SUITE 300, ATLANTA, GA 30326.
ALTERNATE CONTACT ADDRESS: 80 JESSE HILL JR. DRIVE, SE ATLANTA, GA 30303
ARCHITECT OF RECORD: WILLIAM HART, PA
STRUCTURAL ENGINEER OF RECORD: HOLLY JEFFREYS, PE, SE SHEAR STRUCTURAL
MECHANICAL ENGINEER OF RECORD: QUYEN TU, PE
ELECTRICAL ENGINEER OF RECORD: LEE ROBERSON, PE
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: WILLIAM TODD FREEMAN, PE

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Requirements for Seismic Resistance* and/or *Requirements for Wind Resistance*.

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*? N

Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*? N

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

__Weekly _X_Bi-Weekly __Monthly Other; specify:_____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

Holly Jeffreys
Type or print name

Signature SEE TITLEBLOCK
Date

Building Official's Acceptance:

Signature Date
Permit Number:

Frequency of interim report submittals to the Building Official:

__Monthly __Bi- Monthly __Upon Completion Other; specify:_____

Special Inspections for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Seismic Design Category: B

Statement of Special Inspection for Seismic Resistance Required (Yes/No): NO

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:
(Where required per IBC Sections 1705.12.1, 1705.12.2, and 1705.12.3) (Special inspections for seismic resistance of structural steel, where required, shall be in accordance with AISC 341)

Description of designated seismic systems subject to special inspection and testing for seismic resistance:
(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, *Ip*, greater than one and are in Seismic Design Categories C, D, E or F.)

Description of additional seismic systems and components requiring special inspections:
(Required for systems noted in IBC Section 1705.12.5, 1705.12.6, 1705.12.7, and 1705.12.8.)

Description of additional seismic systems and components requiring testing:
(Where required per IBC Section 1705.13)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

TABLE 1704.2 MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

Category of Testing and Inspection	Minimum Qualifications (refer to key at end of Table)		
	Shop Testing or Inspection	Field Testing or Inspection	Review Testing, Certification& Lab Reports
1704.2.5 Inspection of Fabricators			
Structural steel construction	C, F, G		
1705.2, 1705.10, 1705.11& 1705.12 Steel Construction			
Verification of welding consumables, filler metals, procedure specifications, procedure qualification records and personnel performance qualification records			C, F
Nondestructive testing of welding	G	G	
Inspection of welding	C, F	C, F	
Verification of fabricator and erector documents as listed in AISC 360, chapter N, paragraph 3.2			A, C
Material verification of weld filler materials			C, F
Inspection of high strength bolting and steel frame joint details		A, C	
Inspection of embedment		A, C, F	
1705.10, 1705.11 & 1705.12 Seismic and Wind Resistance			
Periodic inspection of fabrication, installation and/or anchorage of building systems and components		A	

KEY:
A. Georgia Professional Engineer (GA PE) competent in the specific task area or graduate of accredited engineering/engineering technology program under the direct supervision of a GA PE.
B. Georgia Registered Architect (GA RA) or graduate of accredited architecture/architecture technology program under the direction of a GA RA.
C. International Code Council (ICC) Special Inspector Certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
D. Post-tensioning Institute (PTI) Certification, Level 2, bonded or unbonded as applicable.
E. Pre-stressed Concrete Institute (PCI) Certified Inspector.
F. American Welding Society (AWS) Certified Welding Inspector (CWI) or AWS Certified Associate Welding Inspector working under the direct on-site supervision of a CWI.
G. American Society for Nondestructive Testing (ASNT) Level II certification, or a Level III certification if previously certified as a Level II in the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
H. American Concrete Institute (ACI) Concrete Construction Special Inspector.
I. National Institute for Certification in Engineering Technologies (NICET) Level II or higher certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
J. ACI Concrete Field Testing Technician with Grade 1 certification.
K. Georgia Concrete and Products Association (GC&PA) – Masonry Association of Georgia (MAG) Masonry Construction Inspector Certification.
L. National Concrete Masonry Association (NCMA) Concrete Masonry Testing Procedures certification.
M. GC&PA – MAG Masonry Testing Technician certification.
N. NICET Certified Engineering Technologist (CT).
O. Other Qualified Special Inspector as approved by the Building Official.
P. American Concrete Institute (ACI) Strength Testing Technician.

Notes:
1. The Special Inspector shall meet one of the minimum qualifications listed for the applicable Category of Testing and Inspection.
2. Materials testing shall be done by an Approved Testing Agency meeting the requirements of IBC Section 1703 and ASTM E 329.

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	GRADY LEGAL HALL HEALTH EQUITY SUITE RENOVATION					
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT				
		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 cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening 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-out 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:		Y				
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	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 N5.4-2)	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 N5.4-3)	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 - 100%	N	Periodic			
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	N	Periodic			
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	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					
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		Y	Observe or Perform as noted (4)			
b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)		Y	Observe (4)			
1) Pre-tensioned and slip-critical joints		N				
a) Turn-of-nut with matching markings		N	Periodic			
b) Direct tension indicator		N	Periodic			
c) Twist-off type tension control bolt		N	Periodic			
d) Turn-of-nut without matching markings		N	Continuous			
e) Calibrated wrench		N	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 N5.6-3)		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	Y	Periodic			
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic			
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:		N				
a. Verification of weldability of bars other than ASTM A706.		N	Periodic			
b. Inspection of single-pass fillet welds 5/16 or less in size.		N	Periodic			
c. Inspection of all other welds.		N	Continuous			
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	Y	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 tightening 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.		N	Continuous			
b. Mechanical and adhesive anchors not defined in 4a.		Y	Periodic			

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT	GRADY LEGAL HALL HEALTH EQUITY SUITE RENOVATION				
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
6. 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		N	Continuous		
b. Grouting of bonded prestressing tendons		N	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	Y	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	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					
Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system in structures assigned to SDC B, C, D, E or F.	Shop and field inspection	N	Periodic		

* INSPECTION AGENTS FIRM	ADDRESS	TELEPHONE NO.
1. UNITED CONSULTING	625 HOLCOMB BRIDGE RD, NORCROSS, GA	(770) 209-0029
2. GEOHYDRO ENGINEERS	1000 COBB PL BLVD #290, KENNESAW, GA	(770) 426-7100
3. TERRACON	2105 NEWPOINT PL #600, LAWRENCEVILLE, GA	(770) 623-0755
4.		

Notes:
1. *The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.*
2. *The list of Special Inspectors may be submitted as a separate document, if noted so above.*
3. *Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.*
4. *Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.*
5. *NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.*

Are Requirements for Seismic Resistance included in the *Statement of Special Inspections*	N
Are Requirements for Wind Resistance included in the *Statement of Special Inspections*	N
DATE:	SEE TITLEBLOCK

WSP USA Buildings Inc.
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(404) 815-4152
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PROJECT NORTH

Issue	Date & Description	By
03/26/2025	ISSUED FOR CONSTRUCTION	KH/HJ

Drawn by **Author** Reviewed by **Checker**

Seal/Signature

GEORGIA REGISTERED No. SE000134 STRUCTURAL ENGINEER HOLLY C JEFFREYS

Project
GRADY LEGAL HALL HVAC MODIFICATIONS AND HEALTH EQUITY SUITE RENOVATION
Project Number
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SPECIAL INSPECTIONS
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3/4" = 1'-0"
Sheet Number
S00.02

3/24/2025 2:45:57 PM Autodesk Docs://Grady Legal Hall/900.24096_WSPGradyHall_R22.rvt

SECTION 013330
STRUCTURAL SUBMITTALS

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Structural submittals include shop drawings, design calculations, diagrams, illustrations, schedules, performance charts, nomenclature charts, samples, brochures and other data prepared by the Contractor or any subcontractor, manufacturer, supplier, fabricator, or distributor and which illustrate some portion of the Project.
B. Submittals by the Contractor are not a part of the Contract Documents.
1.2 RELATED SECTIONS
A. Section 01 33 00 - Submittals
1.3 SUBMITTAL PROCEDURES
A. Prior to the initial submittal, Contractor shall submit to the Design Professional a completed Submittal Information and Schedules form given in Appendix I.
B. Submittals shall be accompanied by a transmittal letter with the following information:
1. Project name.
2. Contractor's name.
3. Date submitted.
4. Description of items submitted; identify work and product by Specification Section.
5. Number of drawings and other pertinent data.
C. Provide blank space on each submittal for the Design Professional's review stamp.
D. The type and number of submittals for each item shall be in accordance with Section 013000.
E. Contractor shall direct specific attention on the submittal to any deviation from the Contract Documents.
1.4 CONTRACTOR RESPONSIBILITY
A. Contractor shall make all submittals in advance of installation or construction to allow the Design Professional sufficient time for review.
B. 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.
C. Contractor shall understand that the submittal of the required documents does not constitute compliance with the requirements of the Contract Documents; only submittals reviewed by the Design Professional constitute compliance.
D. It is the Contractor's responsibility to furnish equipment, materials, and labor for the Project which meets the requirements of the codes and authorities quoted as well as the Contract Documents. Proprietary items specified herein only establish a minimum functional and aesthetic standard and it is incumbent upon the Contractor to ascertain conformance of these proprietary items or any proposed substitution with the codes and authorities.
E. By reviewing, approving and submitting shop drawings, product data, or samples, Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, member sizes catalog numbers, and similar data and that he has checked and coordinated shop drawings with the requirements of the Project and of the Contract Documents.
F. 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 complies with them without exception and without requesting change in Contract Sum or Contract Time.
1.5 DESIGN PROFESSIONAL REVIEW
A. Design Professional will review submittals with reasonable promptness.
B. Design Professional's review or corrections refer only to the general arrangement and conformance of the subject of the submittals with the design concept of the project and with the information given in the Contract Documents. Under no conditions should the Contractor consider the review to include the dimensions, quantities, and details of the items nor the approval of an assembly in which the item functions.
C. Design Professional's review shall not relieve the Contractor from responsibility for errors or omissions in the submittals.
D. Design Professional's review of submittals shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract Documents unless the Contractor has directed specific attention to the deviation at the time of submission and the Design Professional has given written approval to the specific deviation.
E. Design Professional's review of submittals shall not be construed as authorizing any change in the Contract Sum or Contract Time.
1.6 SHOP DRAWINGS
A. Present in a clear and thorough manner. Title each drawing with Project name and number; identify each element of drawings by reference to sheet number and detail of Contract Documents.
B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
C. Identify field dimensions; show relationship to adjacent or critical features of Work or products.
D. A copy of the marked structural shop drawings with the Design Professional's review stamp is to be maintained at the job site.
1.7 PRODUCT DATA
A. Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Specification Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.
B. Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information which is not applicable.
C. Provide manufacturer's preparation, assembly, and installation instructions.
1.8 SAMPLES
A. Submit full range of manufacturer's standard finishes except where more restrictive requirements are specified, indicating colors, textures, and patterns.
B. Submit samples to illustrate functional characteristics of products, including parts and attachments as required by Design Professional.
C. Approved samples which are of proper size may be incorporated in Work.
D. Label each sample with identification.
E. Field Finishes: Provide full samples at Project, at location acceptable to Design Professional, as required by individual Specification Section. Install each sample complete and finished. Acceptable finishes in place may be retained in completed work.
1.9 RESUBMITTALS
A. When submittals are returned to the Contractor with the Design Professional's corrections the Contractor shall make the required corrections. Upon request, resubmit one corrected set.
B. Contractor shall direct specific attention on the resubmittal to all revisions including those requested by the Design Professional on previous submission.
1.10 DISTRIBUTION
A. Distribute reproductions of shop drawings, copies of product data, and samples which bear the Design Professional's review stamp to job site file, Record Documents file, subcontractors, suppliers, other affected contractors, and other entities requiring information.
B. Work shall be in accordance with and performed from the reviewed drawings.
PART 2 - PRODUCTS
Not Used.
PART 3 - EXECUTION
Not Used.

END OF SECTIONAPPENDIX I
SUBMITTAL INFORMATION AND SCHEDULES

PROJECT _____
CONTRACTOR _____
CONTRACTOR'S ADDRESS _____
PROJ. MANAGER _____
PHONE _____
FAX _____
SUPERINTENDENT _____
PHONE _____
FAX _____
MOBILIZATION DATE _____

PROJECTED SUBMITTAL DATES

STRUCTURAL STEEL			
SUBMITTAL	DATE		
Fabricator / Erector Qualifications			
Erection & Detail Drawings			

REMARKS: _____

COMPLETED BY _____ DATE _____

END OF APPENDIX I

SECTION 014525
STRUCTURAL TESTING/INSPECTION AGENCY SERVICES

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Section summarizes the responsibility of the Contractor and the Structural Testing/Inspection Agency in the performance of the testing/inspection specified in the Contract Documents.
B. Neither the observation of the Design Professional in the administration of the contract, nor tests/inspections by the Testing/Inspection Agency, nor approvals by persons other than the Design Professional shall relieve the Contractor from his obligation to perform the work in accordance with the Contract Documents.
1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014000 - Quality Control Services.
1.3 REFERENCES
A. ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
B. ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.
C. American Council of Independent Laboratories - Recommended Requirements for Independent Laboratories Qualifications.
1.4 SELECTION AND PAYMENT
A. Owner will employ and pay for the structural testing/inspection services that are required by the Contract Documents.
B. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with Contract Documents due to negligence or nonconformance.
C. Contractor shall pay for any additional structural testing/inspection required for his convenience.
D. Qualifications: Minimum Special Inspector qualifications shall be per Table 1704.2 of 2022 Georgia State Amendments to the International Building Code (2018 Edition).
1.5 STRUCTURAL TESTING/INSPECTION REQUIREMENT SUMMARY
A. Specific structural testing/inspection requirements are given in the following specification sections:
Specification 05 1000 - Structural Steel Inspection
1.6 STATEMENT OF SPECIAL INSPECTIONS
A. Provide testing/inspection required to meet the provisions of the Schedule of Special Inspection Services shown on the Structural Drawings.
PART 2 - MATERIALS
Not Used.
PART 3 - EXECUTION
3.1 STRUCTURAL PRECONSTRUCTION MEETING
A. A structural preconstruction meeting may be conducted at the construction site by the Design Professional to discuss quality issues. The parties involved may be the Design Professional, Contractor, Structural Testing/Inspection Agency, appropriate subcontractors, suppliers, and detailers.
3.2 STRUCTURAL TESTING/INSPECTION AGENCY'S RESPONSIBILITIES
A. Cooperate with the Contractor and provide timely service.
B. Upon arriving at the construction site, sign in and notify the Contractor of presence.
C. Select the representative samples that are to be tested/ inspected.
D. Perform tests/ inspections as outlined in Contract Documents, the applicable codes, and as directed by the Design Professional.
E. Report work and materials not complying with Contract Documents immediately to the Contractor and Design Professional.
F. Leave copies of field notes with the Contractor prior to leaving the construction site. Field notes shall include the message given to the Contractor, date, time of message, name of Contractor's representative informed, type and location of work or materials tested/inspected, whether the work or materials complies with Contract Documents and name of the Structural Testing/Inspection Agency's representative.
G. Report and distribute results of tests/inspections promptly in the form of written reports as directed by the Design Professional.
H. Structural Testing/Inspection Agency shall not alter requirements of Contract Documents, approve or reject any portion of the work, or perform duties of the Contractor.
3.3 CONTRACTOR'S RESPONSIBILITIES
A. Provide copy of Contract Documents to the Structural Testing/Inspection Agency.
B. Arrange the preconstruction meeting to discuss quality issues.
C. Notify the Structural Testing/Inspection Agency sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
D. Cooperate with Structural Testing/Inspection Agency and provide access to work.
E. Provide samples of materials to be tested in required quantities.
F. Furnish copies of mill test reports when requested.
G. Provide storage space for Structural Testing/Inspection Agency's exclusive use, such as for storing and curing concrete testing samples.
H. Provide labor to assist the Structural Testing/Inspection Agency in performing tests/inspections.
3.4 OPTIONS
A. If the Structural Testing/Inspection Agency is located at such a distance from the project that travel expenses will be a consideration, or if the amount of sampling performed is minor, and by mutual agreement of the Design Professional and Contractor, the Contractor may be requested to take samples and forward them to the Structural Testing/Inspection Agency for testing/inspection.

END OF SECTION

SECTION 051000
STRUCTURAL STEEL

PART 1 - GENERAL
1.1 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.
1.2 RELATED SECTIONS
A. Section 013330 - Structural Submittals.
B. Section 014525 - Structural Testing/Inspection Agency Services.
1.3 REFERENCES
A. AISC - Code of Standard Practice for Steel Buildings and Bridges.
B. AISC 360-16 - Standard Specification for Structural Steel Buildings, 15th Edition.
C. RCSC - Specification for Structural Joints Using High-Strength Bolts.
D. AWS A5.1 - Specification for Carbon Steel Electrodes for Shield Metal Arc Welding.
E. AWS D1.1 - Structural Welding Code.
F. ASTM A36 - Standard Specification for Structural Steel.
G. ASTM A992 - Standard Specification for Steel for Structural Shapes For Use in Building Framing
H. SSPC - Steel Structures Painting Manual.
1.4 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. Submit manufacturer certifications for welding consumables/materials.
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 must 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.
O. Qualification Data: For Erector, manufacturer, professional engineer, land surveyor and testing agency.
1.5 QUALITY ASSURANCE
A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. 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 fitup.
c. Review approved welding procedures. Verify that welding procedures are being adhered to during field welding.
d. Verify welder qualifications.
2. Bolted Connections
a. Inspection and testing shall be in accordance with RCSC Specification for Structural Joints Using High-Strength Bolts.
b. Prior to visual and physical testing, tension testing using a calibration device 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.
B. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required by Specification 01 4525.
1.6 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
2.1 ROLLED STEEL WIDE FLANGE, CHANNEL AND WT SHAPES
A. Rolled steel wide flange, channels and WT shapes shall conform to ASTM A992.
2.2 PLATES, ANGLES AND BARS
A. Plates, angles and bars shall conform to ASTM A36.
2.3 ROUND STRUCTURAL STEEL TUBING
A. Round structural steel tubing shall conform to ASTM 500, Grade C, 46 ksi minimum yield strength.
2.4 HIGH-STRENGTH FASTENERS
A. High-strength bolts shall conform to ASTM F3125 Type 1, 120 ksi as noted on the Structural Drawings.
B. Provide 3/8-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.
2.5 EXPANSION ANCHORS
A. Expansion anchors shall have been evaluated by the ICC Evaluation Services, Inc. (ICC-ES) or IAPMO Uniform ES (UES) 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.
2.6 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.
2.7 WELD ELECTRODES
A. E-70 series low hydrogen electrodes shall conform to AWS A5.1, A5.5, A5.I7, or A5.20.
B. Properly store electrodes to maintain flux quality.
2.8 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.
PART 3 - EXECUTION
3.1 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.
3.2 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 RCSC Specification for Structural Joints Using High-Strength Bolts using ASTM F3125 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.)
3.3 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 RCSC Specification for Structural Joints Using High-Strength Bolts
3.4 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.
3.5 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.
3.6 WELDING
A. Comply with AWS D1.1 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 back gouged 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 all slag and weld splatter from deposited weld metal.
3.7 SPLICING
A. Splice members only where indicated unless authorized in writing by the Design Professional.
B. Provide shim plates at bottom flange splice at continuous beam splices with different depths.
3.8 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.
3.9 MILL SCALE
A. Remove loose mill scale.
3.10 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.
3.11 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 tightened.
3.12 REPAIR
A. Touchup Painting:
1. Immediately after erection, clean exposed areas where primer is damaged or missing, and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
a. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.
3.13 FIELD QUALITY CONTROL
A. Special inspector to perform the following special inspections in accordance with specification section 01 4525
1. Bolted Connections: Inspect bolted connections in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts."
2. Welded Connections: Visually inspect field welds in accordance with AWS D1.1.
a. In addition to visual inspection, test and inspect field welds in accordance with AWS D1.1 and the following inspection procedures, at testing agency's option:
1. Liquid Penetrant Inspection: ASTM E165.
2. Magnetic Particle Inspection: ASTM E709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
3. Ultrasonic Inspection: ASTM E164.
4. Radiographic Inspection: ASTM E94.

END OF SECTION

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PROJECT NORTH

Issue	Date & Description	By
03/26/2025	ISSUED FOR CONSTRUCTION	KH/HJ

Drawn by **Author** Reviewed by **Checker**

Seal/Signature

GEORGIA REGISTERED No. SE000174 STRUCTURAL ENGINEER HOLLY C JEFFREYS

Project
GRADY LEGAL HALL HVAC MODIFICATIONS AND HEALTH EQUITY SUITE RENOVATION
Project Number
24.187.03
Sheet Title
SPECIFICATIONS
Scale
Sheet Number
S00.03

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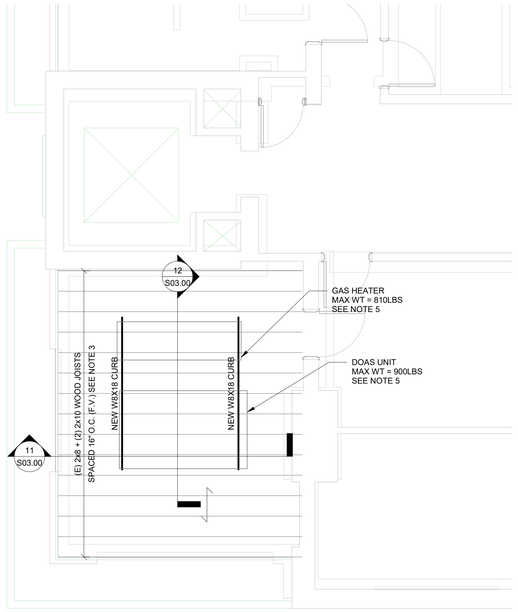
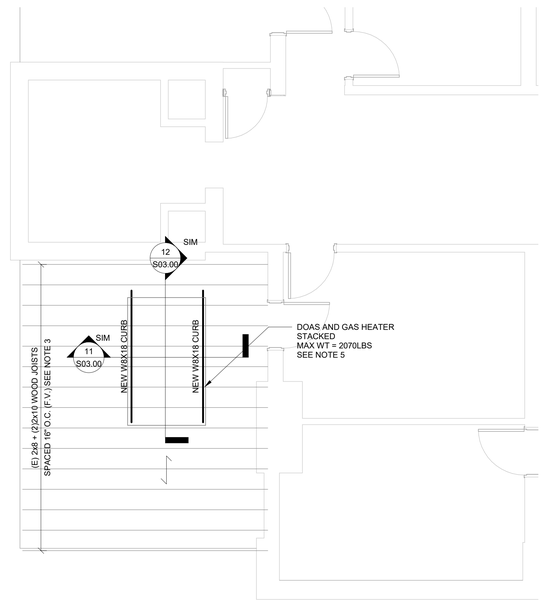


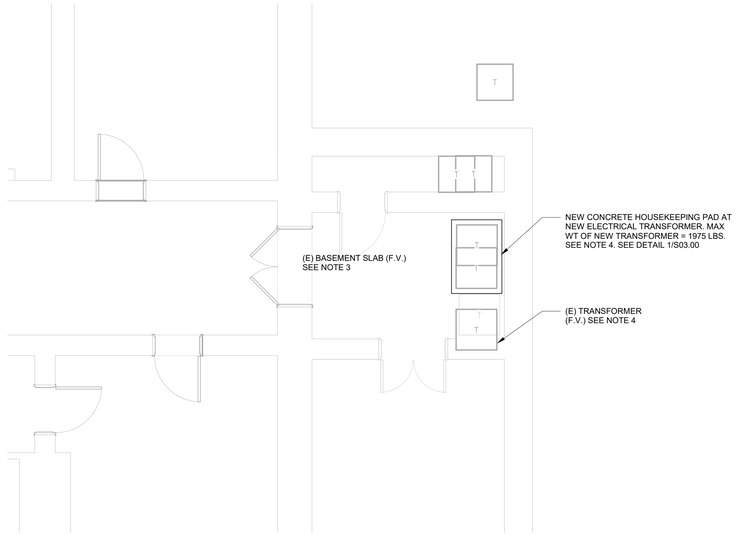
1 S01.00 PARTIAL FOURTH FLOOR FRAMING/ATTIC PLAN
1/4" = 1'-0"

NOTES:
1. SEE S00.01 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. (E) 2x8 WOOD FLOOR FRAMING WAS PREVIOUSLY SISTERED WITH (2)2x10 FOR AN HVAC MODIFICATION PROJECT. (EX STRUCTURAL DRAWINGS DATED 03.18.2005)
4. —·— INDICATES SPAN DIRECTION OF (E) 3/4" PLYWOOD FLOOR SHEATHING (F.V.)
5. EX MECH AHU TO BE REMOVED AND REPLACED. SEE MECH FOR EXACT SIZE AND LOCATION OF NEW MECHANICAL EQUIPMENT.
6. FOR NEW WALL OPENINGS, SEE LINTEL SCHEDULE 4/S03.00 .



2 S01.00 PARTIAL ALTERNATE FOURTH FLOOR FRAMING/ATTIC PLAN
1/4" = 1'-0"

NOTES:
1. SEE S00.01 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. (E) 2x8 WOOD FLOOR FRAMING WAS PREVIOUSLY SISTERED WITH (2)2x10 FOR AN HVAC MODICATION PROJECT. (EX STRUCTURAL DRAWINGS DATED 03.18.2005)
4. —·— INDICATES SPAN DIRECTION OF (E) 3/4" PLYWOOD FLOOR SHEATHING (F.V.)
5. EX MECH AHU TO BE REMOVED AND REPLACED. SEE MECH FOR EXACT SIZE AND LOCATION OF NEW MECHANICAL EQUIPMENT.
6. FOR NEW WALL OPENINGS, SEE LINTEL SCHEDULE 4/S03.00 .



3 S01.00 PARTIAL BASEMENT PLAN
1/4" = 1'-0"

NOTES:
1. SEE S00.01 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. (E) 4" CONCRETE SLAB ON GRADE (EX ARCHITECTURAL DRAWINGS DATED 01.03.1990)
4. SEE ELEC FOR EXACT SIZE AND LOCATION OF EX AND NEW ELECTRICAL EQUIPMENT.

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PROJECT NORTH

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GEORGIA REGISTERED No. SE000174 STRUCTURAL ENGINEER HOLLY C JEFFREYS

Project
GRADY LEGAL HALL HVAC MODIFICATIONS AND HEALTH EQUITY SUITE RENOVATION

Project Number
24.187.03

Sheet Title
STRUCTURAL PARTIAL PLANS

Scale
As indicated

Sheet Number
S01.00

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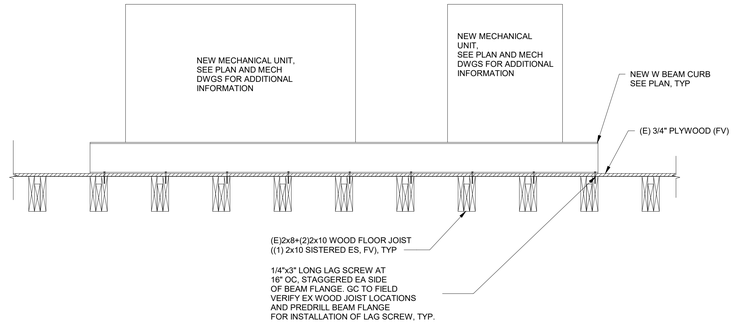
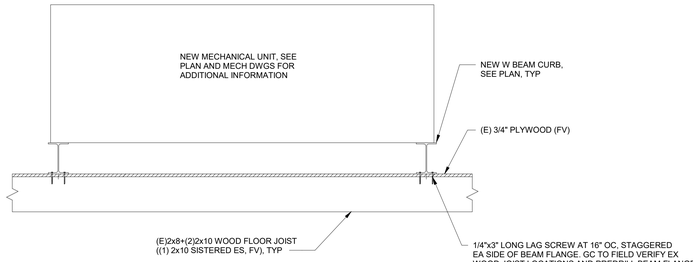


12 S03.00 SECTION AT NEW MECHANICAL UNITS
3/4" = 1'-0"

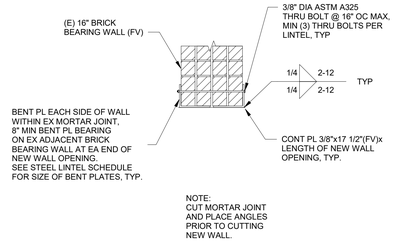
STANDARD STEEL LINTEL SCHEDULE			
MAXIMUM OPENING WIDTH	WALL THK	LINTEL TYPE	REMARKS
3'-6"	12"	(2)L6x6x3/8 + 3/8" BOTTOM PLATE	SEE DETAIL 2/S03.00
3'-6"	16"	(2)B PL 3/8"x8"x6" (LLH) 3/8" BOTTOM PLATE	SEE DETAIL 3/S03.00

NOTES:
1. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF NEW WALL OPENINGS, REQUIRING STEEL LINTELS, FOR MECHANICAL DUCTWORK.

4 S03.00 STEEL LINTEL SCHEDULE
3/4" = 1'-0"

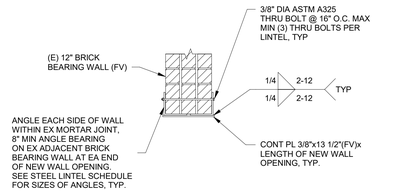


11 S03.00 SECTION AT NEW MECHANICAL UNITS (EAST WEST)
3/4" = 1'-0"



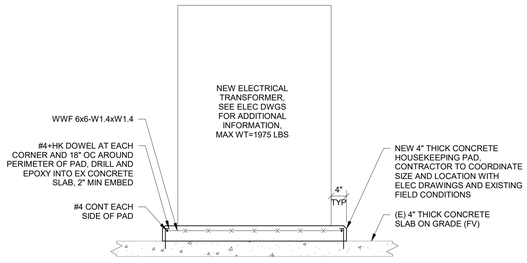
NOTE:
CUT MORTAR JOINT
AND PLACE ANGLES
PRIOR TO CUTTING
NEW WALL.

3 S03.00 TYPICAL STEEL LINTEL DETAIL (16" BRICK BEARING WALL)
3/4" = 1'-0"



NOTE:
CUT MORTAR JOINT
AND PLACE ANGLES
PRIOR TO CUTTING
NEW WALL.

2 S03.00 TYPICAL STEEL LINTEL DETAIL
3/4" = 1'-0"



1 S03.00 CONCRETE HOUSEKEEPING PAD AT NEW ELEC TRANSFORMER
3/4" = 1'-0"

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Project
GRADY LEGAL HALL HVAC MODIFICATIONS AND HEALTH EQUITY SUITE RENOVATION

Project Number
24.187.03

Sheet Title
STRUCTURAL SECTIONS AND DETAILS

Scale
3/4" = 1'-0"

Sheet Number
S03.00

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