

Georgia Institute of Technology

VETERAN'S RESOURCE CENTER

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ARCHITECT:

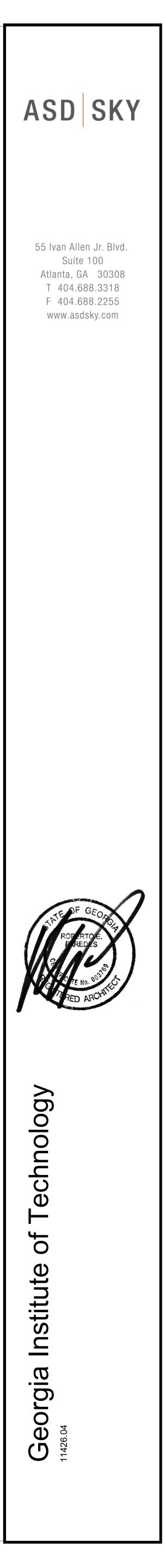
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ISSUED FOR: CONSTRUCTION

ISSUE DATE: 03-06-2020



GENERAL	NOTES
GENERAL	NOTES

SECTION 01000 GENERAL NOTES

APPROVAL

SPECIFIED.

01000-1ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE NATIONAL AND LOCAL CODES AND ORDINANCES, WHETHER LISTED HEREIN OR NOT. 01000-2 ANY & ALL GOVERNING LOCAL LABOR LAWS, REGULATIONS & REQUIREMENTS AND THOSE SET AS BUILDING REQUIREMENTS SHALL BE OBSERVED & FOLLOWED AS THEY RELATE TO THIS PROJECT. ARRANGEMENTS PRECLUDE ANY LABOR RELATED JOB DISPUTES COMPLIANCE WITH THESE REQUIREMENTS SHALL BE MADE BY GC TO & RELATED DELAYS/PROBLEMS & COSTS. 01000-3 CONTRACTOR SHALL OBTAIN ALL REQUIRED BUILDING PERMITS AND CERTIFICATE OF OCCUPANCY PERMIT AS WELL AS SEPARATE MECHANICAL, ELECTRICAL, AND PLUMBING PERMITS PRIOR TO AND DURING CONSTRUCTION. 01000-4 MATERIALS, DIMENSIONS, AND OTHER CONDITIONS NOT OTHERWISE INDICATED IN THESE DRAWINGS SHALL BE

INTERPRETED AS HAVING THE SAME MEANING AS THOSE MOST SIMILARLY DETAILED AND MORE FULLY DEFINED ELSEWHERE IN THE DRAWINGS. 01000-5THE EXTENT OF WORK SHALL BE LIMITED TO THAT INDICATED IN THE CONTRACT DOCUMENTS. NO ADDITIONAL WORK SHALL

BE DONE WITHOUT WRITTEN APPROVAL OF OWNER. ANY ADDITIONAL WORK PERFORMED WITHOUT PRIOR WRITTEN APPROVAL BY OWNER SHALL BE AT THE CONTRACTOR'S EXPENSE. 01000-6GC SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK & DURING CONSTRUCTION AS NECESSARY TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. BY ENTERING INTO A CONSTRUCTION

CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS. 01000-7 FLOOR TOLERANCE: IN LAYING OUT THE WORK TO BE COMPLETED, CONSIDERATION SHALL BE GIVEN TO VARIATIONS IN THE FLOOR LEVEL RESULTING FROM THE CONSTRUCTION QUALITY AND LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATIONS SHALL BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES AND ALIGNMENT OF DOOR HEADS. OTHER HORIZONTAL ELEMENTS SHALL BE MAINTAINED AT CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED BY USING AN APPROVED LEVELING COMPOUND. 01000-8THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS TO PROTECT BUILDING OCCUPANTS, MATERIALS, & EXISTING FINISHES THROUGHOUT ALL PHASES OF CONSTRUCTION. NOISE, SECURITY, AND DUST BARRIERS BETWEEN CONSTRUCTION AREAS AND OCCUPIED AND PUBLIC AREAS SHALL BE MAINTAINED BY CONTRACTOR.

01000-9THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BUILDING CORRIDORS CLEAR OF PROJECT MATERIALS AND EQUIPMENT. 01000-10 GC SHALL PROVIDE GENERAL CARPENTRY AS REQUIRED FOR WORK WHICH MAY NOT FALL UNDER THE JURISDICTION OF

A SPECIFIED TRADE BUT IS REQUIRED FOR PROPER JOB EXECUTION AND COMPLETION OF CONSTRUCTION. 01000-11 NO MODIFICATIONS/REVISIONS/CHANGES SHALL BE UNDERTAKEN UNLESS SPECIFICALLY SO INSTRUCTED & APPROVED BY OWNER.

01000-12 CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH WORK IN QUESTION.

01000-13 THE INTENT OF THE CONTRACT DOCUMENTS IS TO EXCLUDE ALL MATERIALS WHICH CONTAIN KNOWN HAZARDOUS SUBSTANCES. THESE INCLUDE MATERIALS CONTAINING ASBESTOS, POLYCHLORINATED BIPHENYL(PCB), OR ANY OTHER KNOWN SUBSTANCES DETERMINED TO BE A HEALTH HAZARD BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) AND OTHER RECOGNIZED AGENCIES. IN STUDYING THE CONTRACT DOCUMENTS, AND AT ANY TIME DURING EXECUTION OF THE WORK. THE CONTRACTOR SHALL AT ONCE REPORT TO THE ARCHITECT ANY MATERIALS CONTAINING HAZARDOUS SUBSTANCES THAT HE/SHE MAY DISCOVER. DO NOT PROCEED WITH INSTALLATION OF HAZARDOUS MATERIALS.

01000-14 CONTRACTOR SHALL VERIFY PRESENCE OF HAZARDOUS MATERIALS WITH OWNER. ARCHITECT AND ITS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO, ASBESTOS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

01000-15 WHERE PRODUCTS ARE SPECIFIED BY REFERENCE STANDARD OR IN DESCRIPTIVE MANNER WITHOUT MANUFACTURER'S NAME, MODEL NUMBER OR TRADE NAME, CONTRACTOR SHALL SELECT MATERIALS MEETING SPECIFIED REQUIREMENTS WHICH DO NOT CONTAIN KNOWN HAZARDOUS SUBSTANCES IN ANY FORM AND SUBMIT TO ARCHITECT FOR

01000-16 INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, EXCEPT THAT THE SPECIFICATIONS HEREIN, WHERE MORE STRINGENT, SHALL BE COMPLIED WITH

01000-17 IN MAKING REQUESTS FOR SUBSTITUTION, CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THAT MATERIALS REQUESTED FOR SUBSTITUTION ARE FREE OF KNOWN HAZARDOUS SUBSTANCES IN ANY FORM. 01000-18 WARRANTY SHALL BE EXTENDED FOR ALL CONSTRUCTION COMPONENTS, EQUIPMENT AND INSTALLATIONS INCLUDED IN THIS CONTRACT FOR A MINIMUM OF 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

01000-19 GC SHALL RE-EXECUTE ANY WORK THAT FAILS TO CONFORM TO THE DRAWINGS/DETAILS AS SHOWN AND ANY DEFECTS DUE T0 FAULTY MATERIALS OR WORKMANSHIP WHICH APPEAR WITHIN A PERIOD OF ONE (1) YEAR. 01000-20 SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT IN TRIPLICATE FOR REVIEW. SHOP DRAWINGS ENHANCE THESE SPECIFICATIONS: APPROVAL OF SHOP DRAWINGS SHALL NOT RELEASE CONTRACTOR FROM RESPONSIBILITY FOR THE WORK AS

01000-21 THESE DOCUMENTS INDICATE MATERIALS AND METHODS OF CONSTRUCTION TO ESTABLISH STANDARDS OF QUALITY AND/ OR PERFORMANCE. OTHER MATERIALS AND/OR METHODS WILL BE CONSIDERED BY THE ARCHITECT FOR ACCEPTANCE PROVIDED THAT THEY DO NOT AFFECT THE VISIBLE APPEARANCE. MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO ORDERING AND/OR FABRICATION.

01000-22 ALL REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND WILL BE CONSIDERED ONLY IF BETTER SERVICE FACILITIES, A MORE ADVANTAGEOUS DELIVERY DATE, OR LOWER PRICE WITH CREDIT TO THE OWNER IS PROVIDED WITHOUT SACRIFICING QUALITY, APPEARANCE AND FUNCTION. UNDER NO CIRCUMSTANCES WILL THE ARCHITECT BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE PRODUCT SPECIFIED.

01000-23 CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, IMMEDIATELY FOLLOWING DIRECTIVE TO PROCEED WITH WORK, CONFIRMATION WITH DELIVERY DATES FOR ORDERS OF MATERIALS AND EQUIPMENT AND ANY LONG LEAD TIME ITEMS.

01000-24 DAMAGE: CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF ANY ACCIDENTAL DAMAGE HE/SHE INFLICTS UPON THE EXISTING WORK WHICH WILL REMAIN. IF FOR ANY REASON DAMAGE TO EXISTING WORK OR UTILITIES IS CONSIDERED TO BE UNAVOIDABLE, SUBMIT WRITTEN NOTIFICATION OF THIS BEFORE SIGNING THE CONTRACT. IN THE ABSENCE OF SUCH NOTIFICATION, CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR DAMAGE AND THE COSTS OF SATISFACTORILY REPAIRING OR REPLACING DAMAGED WORK.

01000-25 FINAL CLEANING AT COMPLETION SHALL INCLUDE DUSTING OF ALL FINISHED SURFACES, VACUUMING, REMOVAL OF SPOTS, STAINS, LABELS, FINGERPRINTS, SPILLS, AND CLEANING OF ALL INTERIOR GLASS. 01000-26 NOT USED

01000-27 JOB SITE CLEAN-UP SPECIFIED IN 01000-14 SHALL CONTINUE BEYOND DATE OF SUBSTANTIAL COMPLETION TO MOVE-IN DAY AND SHALL INCLUDE REMOVAL OF ACCUMULATED DEBRIS RESULTING FROM WORK BY TELECOMMUNICATIONS CONTRACTORS AND OTHER VENDORS UNDER CONTRACT TO THE OWNER. (NOTE: FURNITURE PACKING MATERIALS WILL BE RESPONSIBILITY OF FURNITURE VENDOR.)

01000-28 FIRE RATED PARTITIONS SHALL BE NOTED IN STENCIL ABOVE FINISHED CEILING PER APPLICABLE CODE.

01000-29 GENERAL CONDITIONS (AIA DOCUMENT A201) APPLIES TO THIS PROJECT AND IS A PART OF THIS CONTRACT. 01000-30 VERIFY SPECIFIC SECURITY REQUIREMENTS WITH TENANT.

01000-31 SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES BY GC AND SHALL BE AS SPECIFIED BY ENGINEER OR AS REQUIRED BY CODE. SPRINKLERS SHALL BE CENTERED WITHIN EACH CEILING TILE TO PROVIDE A UNIFIED, CONSISTENT AND AESTHETIC ARRANGEMENT. HEADS SHALL BE WHITE FLUSH TYPE OR BUILDING STANDARD IF EQUAL OR BETTER.

PROJECT DESCRIPTION

THE PROJECT SCOPE IS IN AN EXISTING BUILDING WITH LIMITED RENOVATION.

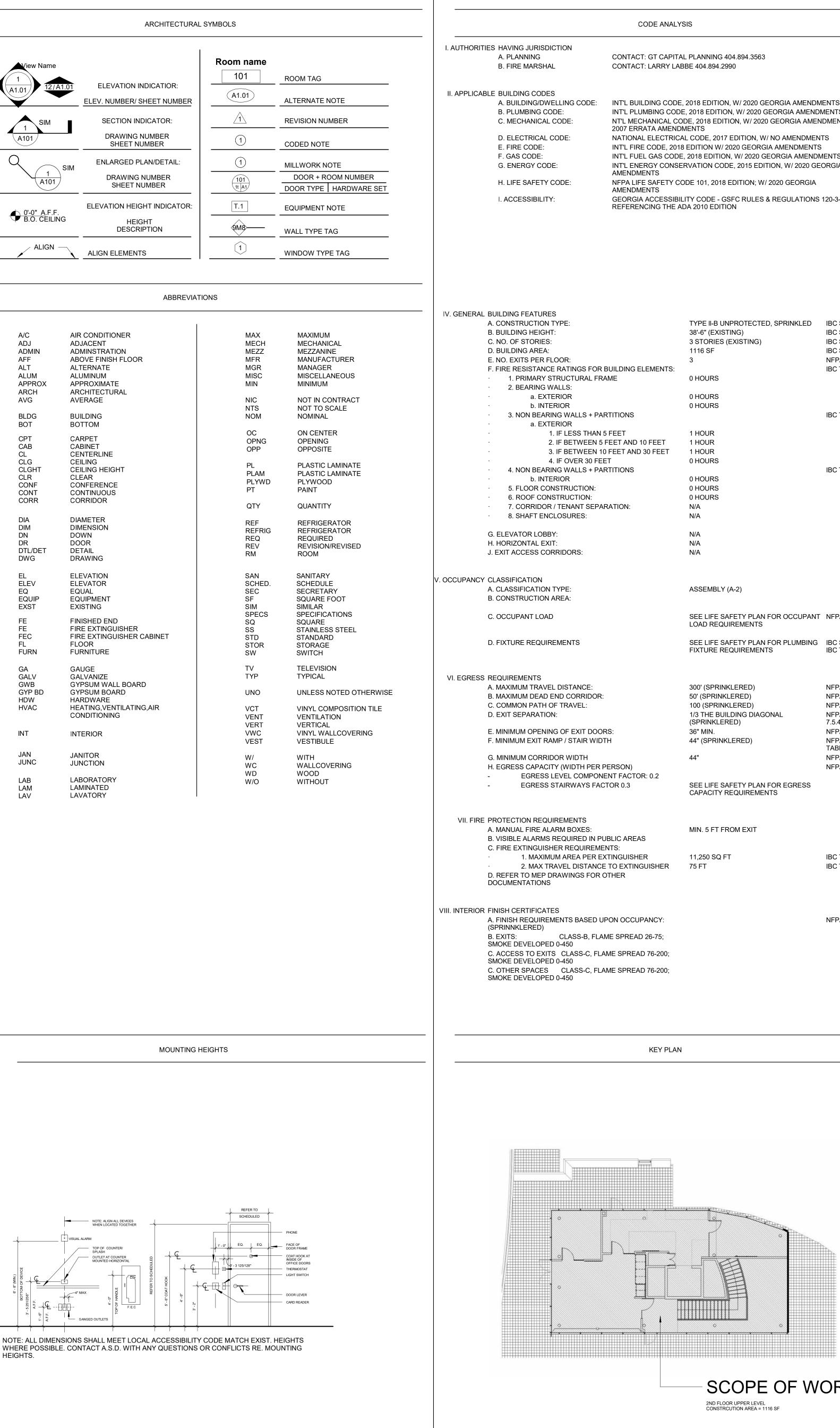
EXISTING RESTROOMS TO REMAIN ON THE LOWER LEVEL.

CONSTRUCTION INCLUDES NEW STOREFRONT DOOR, EXPANSION OF SLAB, NON BEARING PARTITIONS, ACT CEILING TILE, PAINT AND LIGHT FIXTURES WILL BE INSTALLED. EXISTING HVAC SYSTEM, SPRINKER SYSTEMS WILL REMAIN AND RECONFIGURE AS NEEDED.

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ALIGN

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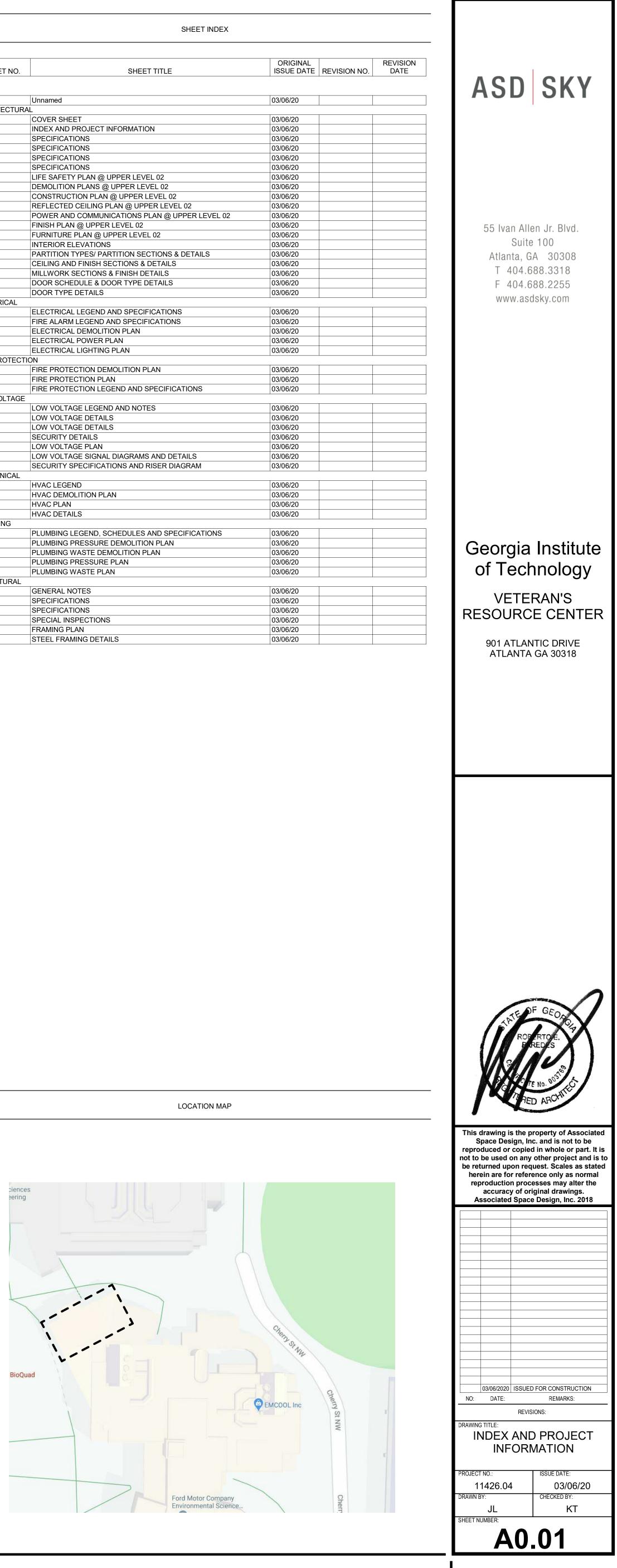
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CODE - GSFC RULES & REGULATIONS	120-3-20A;
PE II-B UNPROTECTED, SPRINKLED '-6" (EXISTING) STORIES (EXISTING) 16 SF	IBC SECTION 602 IBC SECTION 503 IBC SECTION 503 IBC SECTION 506.1 NFPA 36.2.4 IBC TABLE 601
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SEMBLY (A-2)	
E LIFE SAFETY PLAN FOR OCCUPANT AD REQUIREMENTS	NFPA TABLE 7.3.1.2
E LIFE SAFETY PLAN FOR PLUMBING (TURE REQUIREMENTS	IBC SECTION 2901.1 IBC TABLE 2902.1
0' (SPRINKLERED) 1 (SPRINKLERED) 0 (SPRINKLERED) 5 THE BUILDING DIAGONAL PRINKLERED) " MIN. " (SPRINKLERED)	NFPA A7.6 / 12.2.6.2 NFPA A7.6 NFPA 7.5.1.3.2 / 7.5.4.2 NFPA 7.3.4.1 NFPA TABLE 7.2.5.2 / TABLE 7.2.2.1.2 NFPA 12.2.3.8 NFPA TABLE 7.3.3.1
E LIFE SAFETY PLAN FOR EGRESS PACITY REQUIREMENTS	
N. 5 FT FROM EXIT	
,250 SQ FT FT	IBC TABLE 906.3 IBC TABLE 906.3
	NFPA 10.2

SCOPE OF WORK

	SHEET INDEX			
SHEET NO.	SHEET TITLE	ORIGINAL ISSUE DATE	REVISION NO.	RE\ D
S1.02	Unnamed	03/06/20		
ARCHITECTUR				
A0.00		03/06/20		
A0.01		03/06/20		
A0.11 A0.12	SPECIFICATIONS SPECIFICATIONS	03/06/20		
A0.12 A0.13	SPECIFICATIONS	03/06/20		
A0.13	SPECIFICATIONS	03/06/20		
A0.21	LIFE SAFETY PLAN @ UPPER LEVEL 02	03/06/20		
A1.00	DEMOLITION PLANS @ UPPER LEVEL 02	03/06/20		
A1.01	CONSTRUCTION PLAN @ UPPER LEVEL 02	03/06/20		
A2.00	REFLECTED CEILING PLAN @ UPPER LEVEL 02	03/06/20		
A3.00	POWER AND COMMUNICATIONS PLAN @ UPPER LEVEL 02	03/06/20		
A4.00	FINISH PLAN @ UPPER LEVEL 02	03/06/20		
A5.00	FURNITURE PLAN @ UPPER LEVEL 02	03/06/20		
A6.00	INTERIOR ELEVATIONS	03/06/20		
A7.01	PARTITION TYPES/ PARTITION SECTIONS & DETAILS	03/06/20		
A7.02	CEILING AND FINISH SECTIONS & DETAILS	03/06/20		
A7.11	MILLWORK SECTIONS & FINISH DETAILS	03/06/20		
A8.01	DOOR SCHEDULE & DOOR TYPE DETAILS	03/06/20		
A8.02	DOOR TYPE DETAILS	03/06/20		
ELECTRICAL			1	
E0.01	ELECTRICAL LEGEND AND SPECIFICATIONS	03/06/20		
E0.02	FIRE ALARM LEGEND AND SPECIFICATIONS	03/06/20		
E1.00		03/06/20		
E2.00 E3.00	ELECTRICAL POWER PLAN ELECTRICAL LIGHTING PLAN	03/06/20		
E3.00 FIRE PROTECT		03/06/20		
FP1.00	FIRE PROTECTION DEMOLITION PLAN	03/06/20		
FP2.00	FIRE PROTECTION PLAN	03/06/20		
FP0.01	FIRE PROTECTION LEGEND AND SPECIFICATIONS	03/06/20		
LOW VOLTAGE		00/00/20		
LV0.00	LOW VOLTAGE LEGEND AND NOTES	03/06/20		
LV0.01	LOW VOLTAGE DETAILS	03/06/20		
LV0.02	LOW VOLTAGE DETAILS	03/06/20		
LV0.03	SECURITY DETAILS	03/06/20		
LV1.00	LOW VOLTAGE PLAN	03/06/20		
LV2.00	LOW VOLTAGE SIGNAL DIAGRAMS AND DETAILS	03/06/20		
LV2.01	SECURITY SPECIFICATIONS AND RISER DIAGRAM	03/06/20		
MECHANICAL				
M0.01	HVAC LEGEND	03/06/20		
M1.00	HVAC DEMOLITION PLAN	03/06/20		
M2.00	HVAC PLAN	03/06/20		
M4.01	HVAC DETAILS	03/06/20		
PLUMBING			1	
P0.00	PLUMBING LEGEND, SCHEDULES AND SPECIFICATIONS	03/06/20		
P1.00	PLUMBING PRESSURE DEMOLITION PLAN	03/06/20		
P1.01	PLUMBING WASTE DEMOLITION PLAN	03/06/20		
P2.00		03/06/20		
P3.00	PLUMBING WASTE PLAN	03/06/20		
STRUCTURAL		02/02/02		
S0.01	GENERAL NOTES	03/06/20		
S0.02	SPECIFICATIONS	03/06/20		
S0.03	SPECIFICATIONS SPECIAL INSPECTIONS	03/06/20		
SU U1				
S0.04 S1.01	FRAMING PLAN	03/06/20		



SECTION 01100 GENERAL REQUIREMENTS

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 ACQUAINT HIMSELF WITH ALL SUCH TENANT AND BUILDING STANDARDS REGARDLESS OF WHETHER THEY HAVE BEEN SPECIFICALLY REFERENCED IN THESE DOCUMENTS OR NOT.

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.

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.

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 PERFORM FOR ANY REASON, 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.

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

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-VISIBLE ITEMS TO FIT CONDITIONS OR REFLECTED CEILING PLAN AS REQUIRED. ANY AND ALL COST 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.

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.

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'.

01300-6

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.

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.

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.

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.

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.

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.

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".

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL FEES AND EXPENSES TO BE PAID TO ASD IN THE EVENT THAT MORE THAN 2 FINAL INSPECTIONS AND CORRESPONDING 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

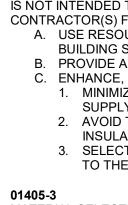
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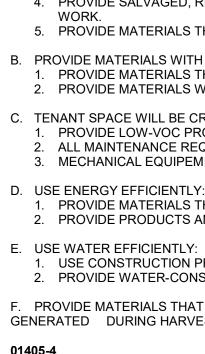
SAMPLES, SHOP DRAWINGS AND PRODUCT DATA REQUIRED TO BE SUBMITTED ARE LISTED ON THE SUBMITTAL SCHEDULE.

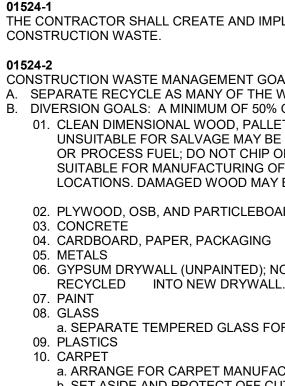
SUBMITTAL SCHEDULE	SHOP DWGS	SAMPLES	LITERATURE	OTHER
MILLWORK	X	X		
DOORS AND FRAMES	X	X		SCHEDULE
HARDWARE	X	X	X	SCHEDULE
PAINT		X		
WALLCOVERING		X		
CEILING TILE		X	X	
WALL BASE		X		
FLOORING (CARPET, TILE, ETC.)		X		
FABRIC WALL PANELS	X	X	X	
MECHANICAL			X	
ELECTRICAL				
LIGHTING			X	
POWER		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

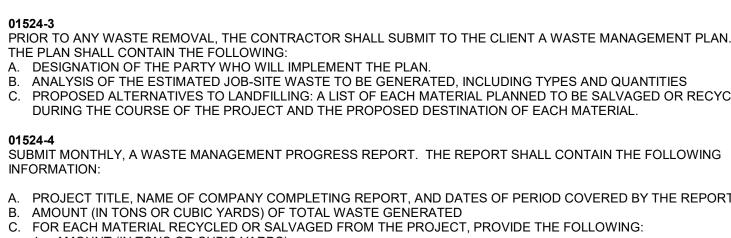


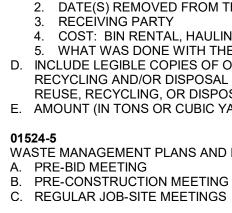
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SECTION 01405 GENERAL ENVIRONMENTAL REQUIREMENTS

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

THE TENANT HAS ESTABLISHED THE FOLLOWING ENVIRONMENTAL GOALS FOR THE PROJECT. NOTIFY TENANT AND ARCHITECT IF CONFLICTS ARISE BETWEEN 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.

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 1. USE CONSTRUCTION PRACTICES THAT ACHIEVE THE MOST EFFICIENT USE OF RESOURCES AND MATERIALS. 2. RECYCLE OR REUSE JOB-SITE WASTE.

PROVIDE MATERIALS WITH RECYCLED-CONTENT. 4. PROVIDE SALVAGED, REFURBISHED OR REUSED MATERIALS WHERE POSSIBLE W/O COMPROMISING QUALITY OF 5. PROVIDE MATERIALS THAT ARE REPLACEABLE, RENEWABLE, OR CAN BE REPLENISHED.

B. PROVIDE MATERIALS WITH THE LONGEST USABLE LIFE. PROVIDE MATERIALS THAT CAN BE REUSED.

2. PROVIDE MATERIALS WITH THE LEAST BURDENSOME MAINTENANCE REQUIREMENTS. C. TENANT SPACE WILL BE CREATED HEALTHY FOR OCCUPANTS.

1. PROVIDE LOW-VOC PRODUCTS AND MATERIALS. ALL MAINTENANCE REQUIREMENTS SHALL USE LOW-VOC PRODUCTS AND METHODS. 3. MECHANICAL EQUIPEMENT WILL PROVIDE FRESH AIR AND WILL NOT TRAP WATER OR POLLUTANTS.

PROVIDE MATERIALS THAT SAVE ENERGY DURING BUILDING OPERATIONS. 2. PROVIDE PRODUCTS AND EQUIPMENT THAT SAVE ENERGY DURING BUILDING OPERATIONS.

1. USE CONSTRUCTION PRACTICES THAT ACHIEVE THE MOST EFFICIENT USE OF WATER. 2. 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.

CONTRACTOR SHALL DESIGNATE AN ON-SITE PARTY (OR PARTIES) RESPONSIBLE FOR INSTRUCTING WORKERS AND OVERSEEING 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 REGULAR JOB-SITE MEETINGS SECTION 01524 CONSTRUCTION WASTE MANAGEMENT

THE CONTRACTOR SHALL CREATE AND IMPLEMENT A WASTE MANAGEMENT PLAN TO REDUCE AND RECYCLE

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 SHREDDED 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.

02. PLYWOOD, OSB, AND PARTICLEBOARD

06. GYPSUM DRYWALL (UNPAINTED): NOTE: ONLY CLEAN, UNPAINTED, NON-BIOCIDE-TREATED, GYPSUM BOARD MAY BE

a. SEPARATE TEMPERED GLASS FOR USE AS AGGREGATE OR NON-STRUCTURAL FILL.

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

11. BEVERAGE CONTAINERS 12. BUILDING COMPONENTS AND FIXTURES: SALVAGE, DOORS, CABINETS, HARDWARE, ELECTRICAL AND PLUMBING FIXTURES. PORCELAIN PLUMBING FIXTURES UNSUITABLE FOR SALVAGE MAY BE CRUSHED FOR FILL.

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 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.

A. PROJECT TITLE, NAME OF COMPANY COMPLETING REPORT, AND DATES OF PERIOD COVERED BY THE REPORT. 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

4. COST: BIN 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.

WASTE MANAGEMENT PLANS AND IMPLEMENTATION SHALL BE DISCUSSED AT THE FOLLOWING MEETINGS:

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 RECYCLING 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 W/TRANSPARENT FINISH :AWI STANDARD 400 & 400A PLASTIC LAMINATE CLAD CABINETS: AWI STANDARD 400 & 400B
- ARCHITECTURAL COUNTERTOPS: AWI STANDARD 400 & 400C LUMBER: AWI STANDARD 100
- PANELING: AWI STANDARD 500 SHELVING: AWI STANDARD 600, CUSTOM GRADE
- MISCELLANEOUS WORK: AWI STANDARD 700 ARCHITECTURAL FLUSH DOORS: AWI STANDARD 1300
- STILE AND RAIL DOORS: AWI STANDARD 1400

FACTORY FINISHING: AWI STANDARD 1500 L. INSTALLATION OF ARCHITECTURAL WOODWORK: AWI STANDARD 1700

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 MACHINING 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 RECIEVING VENEER SHALL BE (WATERFALL) MATCHED AND COORDINATED WITH ALL ADJACENT VENEERED SURFACES. SEMI- TRANSPARENT AND

MEDIUM RUBBED EFFECT. 40 DEGREES. 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.

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.

PROVIDE 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.

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

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 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. BASIS OF DESIGN SHALL BE BLUM MODEL 90, 170 DEGREE OPENING CONCEALED HINGES. C. DRAWER GLIDES SHALL BE K & V OR EQUAL BY GRANT OR ACCURIDE OF CORRECT SIZE FOR DRAWER DEPTH. PROVIDE SIDE PAIR 100 LB. RATED BALL BEARING ROLLERS 1/2" WIDE UNITS W/FULL EXTENSION.

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-PENETRATION FIRESTOPS."

FIRE STOPPING SYSTEMS SHALL CONFORM TO BOTH FLAME (F) AND TEMPERATURE (T) RATINGS AS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY 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 THAT 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.

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 COMBUSTIBLE PIPES, 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.

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

FOR SAID MANUFACTURER'S FIRE STOP PRODUCTS.

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 NO 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.

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

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.

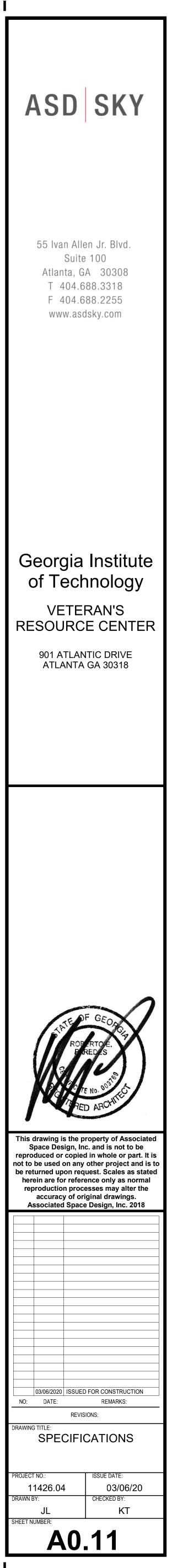
INSTALLATION OF FIRE STOPPING SYSTEMS SHALL BE PERFORMED BY A CONTRACTOR TRAINED OR APPROVED BY THE FIRE STOP MANUFACTURER.

LEAVE FINISHED WORK IN NEAT, CLEAN CONDITION, WITH NO EVIDENCE OF SLIPOVERS OR DAMAGE TO ADJACENT SURFACES.

ANSPARENT FINISHES SHALL BE AWI #2, CATALYZED LACQUER, UNLESS NOTED OTHERWISE. SHEEN LEVEL SHALL BE

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

SUBMIT DOCUMENT FROM FIRE STOP MANUFACTURER WHEREIN MANUFACTURER RECOGNIZES AND APPROVES INSTALLER



SECTION 08100 HOLLOW METAL DOOR FRAMES	SECTION 08120 ALUMINUM DOORS AND FRAMES (CONTINUED)
 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.S. (PRODUCT STANDARD) 4-66 E. SDI (STEEL DOOR INSTITUTE) NO. 100 AND 105 F. UL STANDARD FOR SAFETY NO. 63 G. UL GUIDE 120 I.D.O. 	 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.
 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. 	 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 REQUIRED ENVIRONMENTAL CONDITIONS.
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.	 08120-8 MANUFACTURERS A. THE DESIGN OF THE PROJECT HAS BEEN BASED ON PRODUCTS MANUFACTURED BY CUSTOM COMPONENTS, INC. 813-818-4206.
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.	 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.
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.	 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 0.62 IN THICKNESS, REMOVABLE SNAP-IN TYPE WITHOUT EXPOSED FASTNERS; GLAZING: 1/4" THICK, TEMPERED SAFETY GLASS. D. FINISH SHALL BE CLEAR ANODIC COATING: AA-M12C22A31 CLASS I MECHANICAL FINISH, NONSPECULAR WITH CHEMICAL MEDIUM MATTE ETCH, MEDIUM THICKNESS 0.6 MIL, PER AA DAF-45.
08100-6 FRAMES SHALL BE FABRICATED WITH WELDED MITERED CORNERS. 08100-7	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.
 PROVIDE HOLLOW METAL WORK AS MANUFACTURED BY ONE OF THE FOLLOWING: A. ALLIED STEEL PRODUCTS B. AMERICAN STEEL PRODUCTS CORP. C. AMERICAN WELDING AND MFG. CO. D. GATEWAY METAL PRODUCTS E. OVERLY MFG. CO. F. TEX-STEEL CORPORATION G. TRUSSBILT 	 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
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.	 FRAME MANUFACTURER. FRAMES SHALL BE ALIGNED TO RECEIVE DOORS. INSTALL GLAZING IN GLAZING FRAMES, SET STOPS AND GLAZING GASKETS FLUSH WITH FRAME. INSTALL PARTITION COMPONENTS IN THE LONGEST POSSIBLE LENGTHS, WITH NO COMPONENT LESS THAT 4 FEET. FASTEN TO SUSPENDED CEILING GRID AT 48 INCHES ON CENTER MAXIMUM, USING #6 SHEET METAL SCREWS OR OTHER FASTENERS
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	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 SOREWS OF OTHER FASTENERS THAT WILL BE EXPOSED TO VIEW WILEN INSTALLATION IS 20102 COMPLETE
THE APPLICABLE REQUIREMENTS FOR LABELED CONSTRUCTION. 08100-10 SUBMIT SHOP DRAWINGS SHOWING FABRICATION AND INSTALLATION OF STANDARD METAL FRAMES. INCLUDE DETAILS OF EACH FRAME	 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 COMPONENETS WITH DAMAGE TO EXPOSED FINISHES. I. SEPARATE DISSIMILAR METALS TO PREVENT ELECTROLYTIC ACTION BETWEEN METALS.
TYPE, ELEVATIONS OF EACH DOOR DESIGN TYPE, CONDITIONS AT OPENINGS, DETAILS OF CONSTRUCTION, LOCATION, AND INSTALLATION REQUIREMENTS OF DOOR AND FRAME HARDWARE AND REFORCEMENTS, 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.	 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.
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.	 08120-13 PROTECTION A. PROTECT PRODUCTS OF THIS SECTION FROM DAMAGE CAUSED BY SUBSEQUENT CONSTRUCTION UNTIL SUSBTANTIAL COMPLETION. B. REPLACE DAMAGED OR DEFECTIVE COMPONENTS THAT CANNOT BE REPAIRED TO A CONDITION INDISTINGUISHABLE FROM
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	UNDAMAGED COMPONENTS. SECTION 08200 WOOD DOORS
DIRECTED. 08100-14 FRAMES SHALL BE STORED AT BUILDING SITE UNDER COVER. PLACE UNITS ON MINIMUM FOUR INCH (4") HIGH WOOD BLOCKING. AVOID	08200-1 QUALITY SHALL COMPLY WITH THE FOLLOWING STANDARDS:
USE OF NON-VENTED 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.	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
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.	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 DOOR
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.	 WITH TRANSPARENT FINISH SHALL BE PREFINISHED AT FACTORY. TRANSPARENT FINISH SHALL COMPLY WITH REQUIREMENTS INDICATED FOI 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
08100-17 EXPOSED CONNECTIONS WITH HAIRLINE JOINTS SHALL BE ACCURATELY MACHINED, FILED, AND FITTED, UNLESS OTHERWISE NOTED. 08100-18	 D. STAIN: MATCHING. <u>(BALANCED & CENTER BALANCED)</u> AND <u>(BOOR & SLIP & RANDOM)</u> MATCHED. D. STAIN: MATCH ARCHITECT'S SAMPLE E. EFFECT: FILLED FINISH F. SHEEN: 40% OR AS DETERMINED BY APPROVED SAMPLE.
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.	 08200-5 ALL WOOD DOORS SHALL BE MANUFACTURED TWO INCHES (2") LONGER THAN SHOWN ON DRAWINGS AND/OR SCHEDULES. BOTTOM OF DOOF 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.
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.	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
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.	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
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.	 PROVIDE PRODUCTS OF ONE OF THE FOLLOWING MANUFACTURES, SUBJECT TO COMPLIANCE WITH REQUIREMENTS FOR SOLID CORE DOORS WITH VENEER FACES: A. ALGOMA HARDWOODS, INC. B. EGGERS INDUSTRIES, ARCHITECTURAL DOOR DIVISION
08100-23 INSTALLER SHALL COMPLY WITH PROVISIONS OF SI-105 "RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES," UNLESS OTHERWISE NOTED.	C. IPIK DOOR COMPANY, INC. D. MARSHFIELD 08200-9
08100-24 FIRE-RATED FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD NO. 80. 08100-25	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
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	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 EACTORY EINISHING SPECIFICATIONS
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	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 BLOCKING, FIRE RATINGS, REQUIREMENTS FOR FACTORY FINISHING, AND OTHER PERTINENT DATA.
IMMEDIATELY AFTER ERECTION OF FRAMES, SAND SMOOTH ANY RUSTED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCHUP OF COMPATIBLE AIR-DRYING PRIMER. 08100-28	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
CHECK AND READJUST OPERATING FINISH HARDWARE ITEMS IN HOLLOW METAL WORK JUST PRIOR TO FINAL INSPECTION. LEAVE WORK IN COMPLETE AND PROPER OPERATING CONDITION. REMOVE AND REPLACE DEFECTIVE WORK, INCLUDING FRAMES WHICH ARE WARPED, BOWED OR OTHERWISE UNACCEPTABLE.	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
SECTION 08120 ALUMINUM DOORS AND FRAMES 08120-1 SECTION INCLUDES	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
A. PREFINISHED ALUMINUM DOOR FRAMES FOR INTERIOR USE. B. PREFINISHED ALUMINUM FRAMING SYSTEMS FOR INTERIOR USE. C. PREFINISHED ALUMINUM GLASS DOORS FOR INTERIOR USE.	08200-16 WOOD DOORS SHALL BE PROTECTED DURING TRANSIT, STORAGE, AND HANDLING TO PREVENT DAMAGE, SOILING, AND DETERIORATION.
08120-2 RELATED SECTIONS A. SECTION 08211 FLUSH WOOD DOORS. B. SECTION 08710 DOOR HARDWARE.	COMPLY WITH THE "ON-SITE CARE" RECOMMENDATIONS OF NWWDA PAMPHLET, "CARE AND FINISHING OF WOOD DOORS," AND WITH MANUFACTURER'S INSTRUCTIONS. 08200-17
C. SECTION 08800 GLASS AND GLAZING. 08120-3 REFERENCES A. AAMA 603.8 - VOLUNTARY PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR PIGMENTED ORGANIC	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.
 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 INSPECTIONS METHODS FOR ELECTROLYTICALLY DEPOSITED COLOR ANODIC EINISHED FOR ARCHITECTURAL ALUMINUM. 	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.
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	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.
 B. PRODUCT DATA: MANUFACTURER'S PRODUCT DATA INCLUDING FABRICATION METHODS AND INSTALLATION INSTRUCTIONS FOR EACH FRAME TYPE. C. SHOP DRAWINGS: 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. PROVIDE STANDARD INSTALLATION DETAILS FOR TYPICAL ARCHITECTURAL CONDITIONS 	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 100-S-3 "MOISTURE CONTENT," APPLICABLE TO THE PROJECT'S GEOGRAPHICAL LOCATION. CONDITION DOORS TO AVERAGE PREVAILING HUMIDITY IN INSTALLATION AREA PRIOR TO HANGING.
 PROVIDE STANDARD INSTALLATION DETAILS FOR TYPICAL ARCHITECTURAL CONDITIONS. PROVIDE DETAILS ON CONNECTIONS TO SPECIAL CONSTRUCTION AND OTHER CUSTOM FEATURES. SELECTION SAMPLES: PROVIDE ALUMINUM CHIPS IN FULL RANGE MANUFACTURER'S STANDARD FINISHED FOR ARCHITECT'S COLOR SELECTION. 	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. REJECT DOORS WITH DEFECTS.
 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 MANUEACTURER: PROVIDE ALLIMINUM FRAMES MANUEACTURED BY A SINGLE FIRM SPECIALIZING IN PRODUCTION. 	08200-22 COORDINATE MEASUREMENTS OF HARDWARE MORTISES IN METAL FRAMES TO VERIFY DIMENSIONS AND ALIGNMENT BEFORE PROCEEDING WITH FACTORY PREMACHINING.
 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: 	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.
 C. FIRE RATED ASSEMBLIES: 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. PROVIDE LABELS PERMANENTLY FASTENED ON EACH FRAME THAT ARE WITHIN SIZE LIMITS ESTABLISHED NFPA AND THE TESTING AUTHORITY. PROVIDE 45 MINUTE LABELS. PROVIDE LABELS FOR OPENINGS AS SCHEDULED ON THE DRAWINGS. 	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.

08120 ALUMINUM DOORS AND FRAMES (CONTINUED)

3200 WOOD DOORS

SECTION 08200 WOOD DOORS (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

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

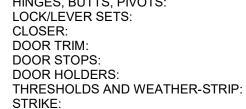
08700-2 ALL FINISH HARDWARE SHALL COMPLY WITH CURRENT ACCESSIBILITY AND ADA CODES, ALL LOCKS AND LATCHES SHALL BE LEVER TYPE. PROVIDE LOCKS WITH KNURLED LEVERS ON ENTRY SIDE TO DOORS WHICH ARE POTENTIALLY DANGEROUS TO BLIND OR VISUALLY HANDICAPPED PERSONS.

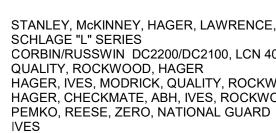
HARDWARE FOR FIRE-RATED OPENINGS SHALL COMPLY WITH NFPA NO. 80 AND LOCAL BUILDING CODE REQUIREMENTS. PROVIDE ONLY HARDWARE WHICH HAS BEEN TESTED AND LISTED BY UL OR FM FOR TYPES AND SIZES OF DOORS REQUIRED AND COMPLIES WITH REQUIREMENTS OF DOOR AND DOOR FRAME LABELS.

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 ARMS. 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 HINGES, BUTTS, PIVOTS:





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 COUNTERSUNK 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 BARRELS 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 TRANSOM BRACKETS WHERE NO TRANSOM 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.

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 SIZED ON JOBSITE 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 KEYED 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 KEYED AS PER INSTRUCTIONS. LEVER DESIGN SHALL MATCH LOCKS.

08700-16

08700-17

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 STEEL HINGES: STEEL PINS NONFERROUS HINGES: STAINLESS STEEL PINS OUT-SWING CORRIDOR DOORS: NON-REMOVEABLE PINS 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 BOLTS FOR FIRE-RATED DOORS SHALL HAVE UL LABEL. PROVIDE MINIMUM 1/2" DIAMETER RODS OF BRASS, BRONZE, OR STAINLESS STEEL, WITH MINIMUM 3/4" THROW. PROVIDE DUST PROOF STRIKE AT ALL LOCATIONS

08700-21 ALL FINISH HARDWARE TO BE INSTALLED ON OR IN METAL DOORS AND/OR FRAMES SHALL BE MANUFACTURED TO TEMPLATE. TEMPLATE MACHINE SCREWS 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

EXCEPT WHERE THRESHOLDS ARE SHOWN.

OPERATING PARTS AND FINISHES. 08700-23

SUBMIT FINAL HARDWARE SCHEDULE IN MANNER INDICATED BELOW, COORDINATE HARD- WARE 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

NAME AND MANUFACTURER OF EACH ITEM FASTENINGS AND OTHER PERTINENT INFORMATION LOCATION OF HARDWARE SET CROSS-REFERENCED WITH DRAWINGS AND SCHEDULE EXPLANATION OF ALL ABBREVIATIONS, SYMBOLS, CODES, ETC CONTAINED ON SCHEDULE MOUNTING LOCATIONS FOR HARDWARE KEYING INFORMATION

DOOR AND FRAME SIZES AND MATERIALS.

08700-24 KEYING 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.

HARDWARE UNITS SHALL BE MOUNTED AT HEIGHTS INDICATED IN "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES" BY THE DOOR AND HARDWARE INSTITUTE. EXCEPT AS SPECIFICALLY INDICATED OR AS REQUIRED TO COMP WITH GOVERNING REGULATIONS AND EXCEPT AS MAY BE DIRECTED BY ARCHITECT ON DRAWINGS UNDER THE DOOR DETAILS AND TYPICAL MOUNTING HEIGHT DETAIL.

08700-26 EACH HARDWARE ITEM SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. WHEREVER CUTTING AND FITTING IS 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.

08700-27 SET UNITS LEVEL, PLUMB, AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION.

08700-28 ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION AND FUNCTION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE.

STANLEY, McKINNEY, HAGER, LAWRENCE, RIXON CORBIN/RUSSWIN DC2200/DC2100, LCN 4040, HAGER QUALITY, ROCKWOOD, HAGER HAGER, IVES, MODRICK, QUALITY, ROCKWOOD HAGER, CHECKMATE, ABH, IVES, ROCKWOOD

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.

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 COMMERCIALLY 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

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

SECTION 09050 GENERAL FINISH NOTES

SELECTED MATERIALS ARE SHOWN BY ALLOWANCES. ALLOWANCES SHALL BE FOR VARIATIONS IN MATERIALS ONLY. ALL INSTALLATION AND RELATED PRODUCTS TO ACCOMPLISH THE COMPLETE ASSEMBLY SHALL BE INCLUDED IN THE CONTRACT PRICING BY THE CONTRACTOR.

09050-2 RETURN UNUSED, UNOPENED MATERIALS TO THE MANUFACTURER OR SUPPLIER FOR CREDIT TO THE OWNER AFTER INSTALLATION HAS BEEN COMPLETED AND ACCEPTED. UNUSED MATERIALS FROM OPEN PACKAGES ARE TO BE TURN OVER TO THE OWNER AS ATTIC STOCK. SEE SPECIFIC MATERIAL SPECIFICATION SECTIONS FOR ADDITIONAL ATTIC STOCK MATERIAL REQUIREMENTS.

09050-3 COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR INSTALLATION FOR ALL PRODUCTS AND MATERIALS USED IN THE PROJECT TO THE EXTENT THAT THOSE INSTRUCTIONS ARE MORE EXPLICIT AND/OR MORE STRINGENT THAN THE REQUIREMENTS IN THE CONTRACT DOCUMENTS.

INSPECT MATERIALS OR EQUIPMENT IMMEDIATELY UPON DELIVERY AND AGAIN PRIOR TO INSTALLATION. REJECT DAMAGED AND/OR DEFECTIVE ITEMS. PROTECT ALL MATERIALS FROM DAMAGE AND MOISTUIRE DURING DELIVERY. INSTALLATION, AND USE.

09050-5 PROVIDE APPROPRIATE ATTACHMENT AND CONNECTION DEVICES AND METHODS NECESSARY FOR SECURING THE WORK. SECURE ALL WORK TRUE TO LINE AND LEVEL. ALLOW FOR BUILDING EXPANSION AND BUILDING MOVEMENT

PROVIDE UNIFORM JOINT WIDTHS IN EXPOSED WORK. ARRANGE JOINTS IN EXPOSED WORK TO OBTAIN THE BEST VISUAL EFFECT 09050-7

RECHECK MEASUREMENTS AND DIMENSIONS BEFORE STARTING EACH INSTALLATION.

09050-8 THE CONTRACTOR SHALL ENSURE THAT NO PART OF THE CONSTRUCTION, COMPLETED OR IN PROGRESS, IS SUBJECT TO HARMFUL, DANGEROUS, OR DAMAGING EXPOSURE DURING THE CONSTRUCTION PERIOD. SUCH EXPOSURE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: EXCESSIVE HIGH OR LOW TEMPERATURES, EXCESSIVE HIGH OR LOW HUMIDITY, WATER, ABRASION, LIGHT, STAINING, UNPROTECTED STORAGE, THEFT, FIRE, OR VANDALISM.

SUBMIT FULL SIZE AND FULLY FABRICATED SAMPLES, CURED AND FINISHED AS SPECIFIED WITH THE MATERIAL OR PRODUCT SPECIFIED. SAMPLES INCLUDE PARTIAL SECTIONS OR MANUFACTURED OR FABRICATED COMPONENTS, CUT OF MATERIALS, COLOR RANGE SETS AND SWATCHES SHOWING COLOR TEXTURE AND PATTERN. 09050-10

WHERE VARIATION IN COLOR PATTERN AND TEXTURE OR OTHER CHARACTERISTICS ARE INHERENT IN THE MATERIAL. SUBMIT MULTIPLE UNITS (NOT LESS THAN 3) TO EXHIBIT THE FULL RANGE OF VARIATION.

PROVIDE ALL MANUFACTURER'S STANDARD WARRANTIES FOR THE VARIOUS SPECIFIED MATERIALS TO THE OWNER. I WORK COVERED BY A WARRANTY HAS FAILED AND BEEN CORRECTED BY REPLACEMENT, REINSTATE THE WARRANTY BY WRITTEN ENDORSEMENT. THE REINSTATED WARRANTY SHALL BE EQUAL TO THE ORIGINAL WARRANTY WITH AN EQUITABLE ADJUSTMENT FOR DEPRECIATION.

THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION COVERING DEFECTS ARISING FROM BOTH MATERIALS AND WORKMANSHIP FOR WORK PERFORMED BY THE CONTRACTOR AND HIS SUBCONTRACTORS.

09050-13 ALL EXPOSED SURFACES SHALL BE FINISHED. WHERE THE FINISH IS NOT INDICATED OR UNCLEAR, VERIFY THE FINISH WITH THE ARCHITECT. 09050-14

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE DELIVERY DATE OF ALL FINISH MATERIALS AS APPLICABLE DURING THE BIDDING PERIOD AND SHALL SUBMIT THOSE DATES IN WRITING WITH HIS BID.

VERIFY FINISHES WITH THE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION.

09050-12

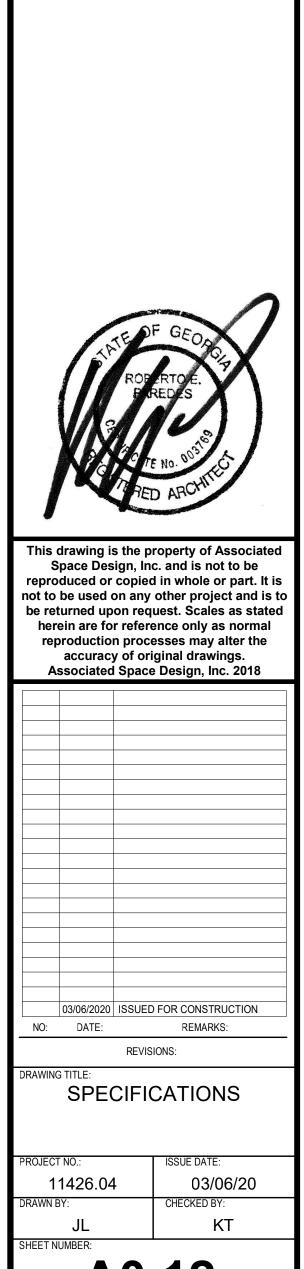
09050-16 FINISH MATERIAL SUBSTRATE SHALL BE FREE OF IMPERFECTIONS AND MARKINGS SUBJECT TO BLEED-THROUGH.

REPAIR, REFINISH AND PREPARE EXISTING SURFACES TO RECEIVE NEW OR EXISTING MATERIALS, AS APPLICABLE, THIS INCLUDES, BUT IS NOT LIMITED TO FLOORING, DOORS & FRAMES, BASE BUILDING PARTITIONS, FLOOR SLABS, CEILING ETC. UNLESS NOTED OTHERWISE.



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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	SECTION 09310 CERAMIC TILE
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	SINGLE SOURCE MANUFACTURER: WATERPROOFING, SURFACE PREPARATION, PRIMERS, CRACK ISOLATION MEMBRANES, UNDERLAYMENTS, SETTING MATERIALS, AND GROUT MATERIALS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.
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	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.
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	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.
ESTABLISH AND MAINTAIN ENVIRONMENTAL CONDITIONS FOR APPLICATION AND FINISHING GYPSUM BOARD TO COMPLY WITH ASTM C840 AND WITH GYPSUM BOARD MANUFACTURER'S RECOMMENDATIONS.	SYSTEM SHALL MEET TRAFFIC LEVEL PERFORMANCE EXTRA HEAVY COMMERCIAL WHEN TESTED IN ACCORDANCE WITH ASTM C 627 EVALUATING CERAMIC TILE FLOOR INSTALLATIONS.
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: 25-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	MORTAR SYSTEM (324), AS MANUFACTURED BY MANUFACTURER'S SPECIFICATIONS 09310-5 REFER TO TILE COUNCIL OF AMERICA, INC. HANDBOOK, METHOD EJ171-93 FOR RECOMMENDATIONS ON LOCATING AND DETAILING VARIOUS TYPES
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.	OF CONSTRUCTION JOINTS. USE SEALANT COMPLYING WITH ASTM C920 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 01710. MAXIMUM VARIATION FROM THE REQUIRED PLANE, AS SPECIFIED BY TILE COUNCIL OF AMERICA F-111-03 THROUGH F-116-03. 1. A. FLOOR SURFACES: 1/4 INCH IN 10 FEET B. WALL SURFACES: 1/4 INCH IN 10 FEET 09310-6
09200-7 FOR FASTENERS OF METAL FRAMING: PROVIDE SCREWS AS RECOMMENDED BY MANUFACTURER. TO FACILITATE FUTURE DISMANTLING, MINIMIZE USE OF NAILS.	NOTIFY ARCHITECT AND GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
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: D. THICKNESS: 5/8" THICK, UNLESS OTHERWISE NOTED E. TYPE: REGULAR OR TYPE X FOR FIRE-RESISTANCE-RATED ASSEMBLIES F. EDGES: TAPERED G. CONTENT: SYNTHETIC GYPSUM BOARD	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
09200-9 SELECT PANEL SIZES TO MINIMIZE WASTE. LAY OUT PANELS TO MINIMIZE WASTE AND REUSE CUTOFFS WHENEVER FEASIBLE. 09200-10	PROCEDURES FOR WATERPROOFING. 09310-8 PRIME THE SURFACE WITH PRIMER AND PATCH ADDITIVE FOLLOWING PRODUCT INSTALLATION PROCEDURES FROM MANUFACTURER'S
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.	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 EDGES, CORNERS AND OBSTRUCTIONS WITHOUT DISRUPTING THE TILE PATTERN OR JOINT ALIGNMENT. INSTALL TILE IN ACCORDANCE WITH LATEST VERSION OF TILE COUNCIL OF AMERICA. INC. METHOD F111-03 THROUGH F116-03. REFER TO DRAWING DETAILS FOR ACTUAL CONDITIONS.
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	09310-9 I INSTALL GROUT IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS INSTALLATION INSTRUCTIONS AND FOLLOWING THE
WALLS AND CEILINGS OVER 50' IN LENGTH. 09200-13 WALLBOARD JOINT TREATMENT MATERIALS SHALL BE PROVIDED AND COMPLY WITH ASTM C475, ASTM C840, AND RECOMMENDATIONS OF MANUFACTURERS	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
OF BOTH GYPSUM BOARD AND JOINT TREATMENT MATERIALS FOR THE APPLICATION INDICATED: H. JOINT TAPE: PAPER REINFORCING TAPE I. DRYING-TYPE JOINT COMPOUNDS: FACTORY-PREPACKAGED VINYL-ASED PRODUCTS ALL-PURPOSE COMPOUND FORMULATED FOR USE AS BOTH TAPING AND TOPPING COMPOUND	EXPANSION AND CONTROL JOINTS: INSTALL EXPANSION AND CONTROL JOINTS IN ACCORDANCE WITH TILE COUNCIL OF AMERICA, INC. METHOD EJ171. 09310-11
J. 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	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.
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	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.
ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. 09200-16 HEIGHTS ARE DIMENSIONED FROM THE TOP OF FINISHED FLOOR. UNLESS NOTED OTHERWISE.	09310-13 FIELD MOCK-UP: INSTALL A FULLY FINISHED MOCK-UP FOR EACH TYPE TILE INSTALLATION. MOCK-UP SHALL BE A MINIMUM OF 10'0"X 10'0" AND WILL BE REVIEWED FOR JOINT QUALITY, COLOR RANGE, PATTERN AND WORKMANSHIP.
09200-17 ALL PARTITIONS SHOWN ABUTTING INTO EXISTING WALLS SHALL ALIGN WITH FACE OF FINISHED SURFACES UNLESS NOTED OTHERWISE.	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
09200-18 SUBMIT MANUFACTURER'S PRODUCT SPECIFICATIONS FOR EACH TYPE OF GYPSUM BOARD, STEEL FRAME, AND TRIM ACCESSORY INDICATED. 09200-19	PRODUCTS LEGIBLE AND INTACT. 09310-15 ALL PRODUCTS SUPPLIED SHALL BE STORED IN A DRY ENCLOSURE AND PROTECTED FROM THE WEATHER, DIRECT SUNLIGHT, SURFACE
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.	CONTAMINATION, AGING, DAMAGING TEMPERATURES, DAMAGE FROM CONSTRUCTION TRAFFIC, AND OTHER POTENTIAL ADVERSITIES. DAMAGED MATERIALS SHALL BE REMOVED FROM THE JOBSITE. 09310-16
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.	APPLY FULL COVERAGE UNDER ALL STONE FLOORING WITH CRACK ISOLATION MEMBRANE. INSTALLATION SHALL COMPLY WITH ANSI-A108.17 AND TCNA-F125A-09. PREPARATION OF CRACK ISOLATION MEMBRANE SHOULD BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. MEMBRANE MATERIAL SHALL MEET ANSI-A118.12 REQUIREMENTS.
09200-21 HANDLE GYPSUM BOARDS TO PREVENT DAMAGE TO EDGES, ENDS, AND SURFACES. DO NOT BEND OR OTHERWISE DAMAGE METAL CORNER BEADS AND TRIM.	SECTION 09380 INTERIOR STONEWORK 09380-1 INTERIOR GRANITE SHALL COMPLY WITH ASTM C503 AND HAVE A MINIMUM HARDNESS AND ABRASION RESISTANCE OF 12 PER ASTM C241.
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.	09380-3 ANCHORS, DOWELS, RELIEVING ANGLES AND OTHER ANCHORING DEVICES SHALL COMPLY WITH ASTM A167, TYPE 304, THICKNESS AS REQUIRED TO SUSTAIN IMPOSED LOADS AND IN NO CASE LESS THAN 3/16" THICK.
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	09380-4 PROVIDE ULTRA FLOOR, MEDIUM BED DRY SET MORTAR BY MAPI OR OTHER EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
STRENGTH AND AT SPACING REQUIRED TO SUPPORT CEILING. 09200-25	09380-5 SOUNDNESS (HARDNESS AND DENSITY), TEXTURE, GRAINING, COLOR, TONE, SIZE, AND FREQUENCY OF VOIDS SHALL MATCH THE DESIGNER'S SAMPLE AND BE SUBJECT TO DESIGNER'S APPROVAL. STONEWORK SHALL BE SOUND AND FREE FROM DEFECTS WHICH WILL IMPAIR STRENGTH, DURABILITY, OR APPEARANCE. PROVIDE STONE FROM SINGLE QUARRY SOURCES TO SATISFY THE TOTAL REQUIREMENTS OF THE PROJECT.
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	09380-6 ALL STONE OF EACH TYPE SHALL BE FROM THE SAME SEQUENTIAL SERIES OF SLABS.
STEEL FRAMING INSTALLATION SHALL COMPLY WITH ASTM C754 AND ASTM C840 REQUIREMENTS THAT APPLY TO FRAMING INSTALLATION. LIGHT GAGE STEEL COMPONENTS SHALL CONTAIN A MINIMUM OF 80% RECYCLED STEEL AS MANUFACTURED BY CLARKE STEEL.	09380-7 SEALER SHALL BE COLORLESS, SLIP AND STAIN RESISTANT, AND NOT AFFECT THE COLOR OR PHYSICAL PROPERTIES OF THE STONE SURFACE. USE STONE PRODUCER'S RECOMMENDED SEALER FOR APPLICATION AS INDICATED.
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	09380-8 STONE THICKNESS AT COUNTERS SHALL BE A MINIMUM OF 3/4". ALL VISIBLE EDGES SHALL BE POLISHED. 09380-9
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.	STONE FLOORING TILES SHALL BE A MINIMUM OF 3/8" THICK. JOINTS SHALL BE NO MORE THAN 1/8" WIDE. 09380-10 SUBMIT MANUFACTURER'S TECHNICAL DATA FOR EACH TYPE OF STONE.
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.	09380-11 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 STONE FLOORING OR BASE CONDITIONS. SUBMITTAL
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.	SHALL INCLUDE MATERIAL SAMPLES OF ALL MATERIALS USED THAT ARE VISIBLE. THIS INCLUDES, BUT IS NOT LIMITED TO GROUT, CAULKING, SEALANT, METAL SEPARATORS, ETC. 09380-12
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.	SUBMIT CUTTING AND SETTING DRAWINGS SHOWING SIZES, DIMENSIONS, SECTIONS, AND PROFILES OF STONE UNITS, ARRANGEMENT AND PROVISIONS FOR JOINTING, ANCHORING, DOWELING, FASTENING AND SUPPORTS AND OTHER NECESSARY DETAILS FOR LIFTING DEVICES AND RECEPTION OF OTHER WORK.
09200-32 RUNNERS (TRACKS) SHALL BE INSTALLED AT FLOORS, CEILINGS, AND STRUCTURAL WALLS AND COLUMNS WHERE GYPSUM DRYWALL STUD SYSTEM ABUTS OTHER CONSTRUCTION.	09380-13 SUBMIT RANGE OF SAMPLES OF EACH STONE INDICATING COLOR, GRADE, FINISH, TYPE, AND VARIETY IN A SIZE NOT LESS THAN 12" X 12". 09380-14
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.	STONEWORK REQUIREMENTS SHOWN BY THE DETAILS ARE INTENDED TO ESTABLISH BASIC DIMENSIONS OF UNITS OR MODULES, PROFILES, AND SIGHT LINES. WITHIN THESE LIMITATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE ENTIRE STONEWORK SYSTEM AND TO MAKE WHATEVER MODIFICATIONS AND/OR ADDITIONS TO THE DETAILS AS MAY BE REQUIRED TO FULFILL THE PERFORMANCE REQUIREMENTS. 09380-15
09200-34 DO NOT CONTINUE DRYWALL JOINT ABOVE THE JAMB AT DOORS AND SIMILAR OPENINGS. OFFSET DRYWALL JOINT TO CENTER OF OPENING WHERE POSSIBLE.	DESIGNER'S REVIEW WILL BE FOR COLOR AND TEXTURE ONLY. COMPLIANCE WITH OTHER REQUIREMENTS SHALL BE THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
09200-35 ATTACH GYPSUM BOARD TO SUPPLEMENTARY FRAMING AND BLOCKING PROVIDED FOR ADDITIONAL SUPPORT AT OPENINGS AND CUTOUTS.	09380-16 STONE FLOORING CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING SUFFICIENT QUANTITIES OF MATERIAL TO ACCOUNT FOR THE AMOUNT OF MATERIAL HE ANTICIPATES WILL BE REJECTED DUE TO VARIANCE OF VEINING, COLOR, TEXTURE, THICKNESS, ETC.
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.	09380-17 THE VISUAL DESIGN CONCEPT SHALL BE MAINTAINED AS SHOWN IN THE DRAWINGS, INCLUDING SIZES, PROFILES, AND ALIGNMENT OF COMPONENTS AS NEAR AS POSSIBLE.
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.	09380-18 CAREFULLY PACK AND LOAD FINISHED STONE FOR SHIPMENT AND TAKE NECESSARY PRECAUTIONS AGAINST DAMAGE IN TRANSIT. DO NOT USE MATERIAL FOR BLOCKING AND PACKING WHICH WOULD CAUSE STAINING OR DISCOLORATION. EXERCISE CARE TO PREVENT WETTING, SOILING, AND STAINING DURING THE STORAGE PERIOD.
09200-38 SOUND ATTENUATION BLANKETS SHALL BE INSTALLED PRIOR TO GYPSUM BOARD WHERE INDICATED UNLESS READILY INSTALLED AFTER BOARD HAS BEEN INSTALLED.	09380-19 DELIVER PACKAGED SETTING MATERIALS IN THE ORIGINAL PACKAGES AND CONTAINERS OF THE MANUFACTURER. KEEP AGGREGATE DRY AND FREE FROM SOILING.
09200-39 JOINT TREATMENT SHALL BE APPLIED AT GYPSUM BOARD JOINTS (BOTH DIRECTIONS); FLANGES OF CORNER BEAD, EDGE TRIM, AND CONTROL JOINTS,	09380-20 PROTECT STONE DURING STORAGE AND CONSTRUCTION AGAINST MOISTURE, SOILING, STAINING, AND PHYSICAL DAMAGE.
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.	09380-21 HANDLE STONE TO PREVENT CHIPPING, BREAKAGE, SOILING OR OTHER DAMAGE. DO NOT USE PINCH OR WRECKING BARS WITHOUT PROTECTING EDGES OF STONE WITH WOOD OR OTHER RIGID MATERIALS. LIFT WITH WIDE-BELT TYPE SLINGS WHEREVER POSSIBLE; DO NOT USE WIRE ROPE OR ROPES CONTAINING TAR OR OTHER SUBSTANCES WHICH MIGHT CAUSE STAINING. IF REQUIRED, USE WOOD ROLLERS AND PROVIDE CUSHION AT END OF WOOD SLIDES
09200-41 APPLY JOINT TAPE AT JOINTS BETWEEN GYPSUM BOARDS, EXCEPT WHERE TRIM ACCESSORIES ARE INDICATED.	AT END OF WOOD SLIDES. 09380-22 STORE SHALL BE STORED ON WOOD SKIDS OR PALLETS, COVERED WITH NON-STAINING, WATERPROOF MEMBRANE. PLACE AND STACK SKIDS STORE SHALL BE STORED ON WOOD SKIDS OR PALLETS, COVERED WITH NON-STAINING, WATERPROOF MEMBRANE. PLACE AND STACK SKIDS
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 INCONSPICIOUSLY AS POSSIBLE.	AND STONES TO DISTRIBUTE WEIGHT EVENLY AND TO PREVENT BREAKAGE OR CRACKING OF STONES. PROTECT STORED STONE FROM WEATHER WITH WATERPROOF, NON-STAINING COVERS OR ENCLOSURES, BUT ALLOW AIR TO CIRCULATE AROUND STONES.
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.	MIX MORTAR IN SMALL BATCHES, TO A STIFF PLASTIC MASS, THOROUGHLY HOMOGENOUS. MORTAR MAY BE USED ONLY TO 1 1/2 HOURS AFTER MIXING. RETEMPERING OF MORTAR SHALL NOT BE PERMITTED; NOR WILL THE USE OF PARTIALLY SET MORTAR BE PERMITTED. DO NOT APPLY MORE MORTAR THAN CAN BE COVERED IN 30 MINUTES.
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.	09380-24 INSTALLER SHALL REVIEW INSTALLATION PROCEDURES AND COORDINATION WITH OTHER WORK WITH CONTRACTORS AND SUBCONTRACTORS WHOSE WORK WILL BE AFFECTED BY STONEWORK.

ION 09310 CERAMIC TILE

CK: FURNISH EXTRA STOCK OF QUANTITY EQUAL TO 5% OF AMOUNT INSTALLED, IN FULL-SIZE UNITS, FOR EACH TYPE, COLOR, SIZE AND 09500-3 .UDED IN THE WORK. ALL PRODUCTS SUPPLIED SHALL BE DELIVERED IN ORIGINAL, UNOPENED PACKAGES WITH LABELS IDENTIFYING WIRE FOR HANGERS AND TIES SHALL MEET ASTM A641, CLASS I, ZINC COATING, SOFT TEMPER LEGIBLE AND INTACT.

ION 09380 INTERIOR STONEWORK

ONE TO PREVENT CHIPPING, BREAKAGE, SOILING OR OTHER DAMAGE. DO NOT USE PINCH OR WRECKING BARS WITHOUT PROTECTING 09500-24 STONE WITH WOOD OR OTHER RIGID MATERIALS. LIFT WITH WIDE-BELT TYPE SLINGS WHEREVER POSSIBLE; DO NOT USE WIRE ROPE CONTAINING TAR OR OTHER SUBSTANCES WHICH MIGHT CAUSE STAINING. IF REQUIRED, USE WOOD ROLLERS AND PROVIDE CUSHION

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 09380-2

09380-2 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.

CONDITION INVOLVED.

09380-31 PROHIBIT ALL FOOT TRAFFIC FROM USING INTERIOR STONE FLOORS FOR AT LEAST 3 DAYS FOLLOWING INSTALLATION.

09380-32 PREVENT DAMAGE AND WEAR.

09380-33 AND/OR NOTES WITHIN THESE DRAWINGS.

09380-34 WILL BE REVIEWED FOR JOINT QUALITY, COLOR RANGE, PATTERN AND WORKMANSHIP. 09380-35

AND FINISH INCLUDED IN THE WORK. ALL PRODUCTS SUPPLIED SHALL BE DELIVERED IN ORIGINAL, UNOPENED PACKAGES WITH LABELS IDENTIFYING PRODUCTS LEGIBLE AND INTACT.

09380-36 DAMAGED MATERIALS SHALL BE REMOVED FROM THE JOBSITE. 09380-37

SEPARATE WASTE IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN, IF APPLICABLE, AND PLACE IN DESIGNATED AREAS IN THE FOLLOWING CATEGORIES FOR RECYCLING: HALF TILES AND LARGER: SET ASIDE FOR REUSE BY OWNER OR NONPROFIT ORGANIZATIONS SUSCH AS HABITAT FOR HUMANITY BROKEN TILE, CUTOFFS SMALLER THAN 1/2 TILE, AND EXCESS MORTAR AND GROUT: CRUSH FOR USE AS MOSAIC, SUB-BASE, OR FILL

MEMBRANE MATERIAL SHALL MEET ANSI-A118.12 REQUIREMENTS.

PROVIDE MANUFACTURER'S STANDARD UNITS OF CONFIGURATION INDICATED THAT COMPLY WITH ASTM E1264 CLASSIFICATIONS AS DESIGNATED BY REFERENCE TO TYPES, PATTERNS, ACOUSTICAL RATINGS, AND LIGHT REFLECTANCE, UNLESS OTHERWISE NOTED.

09500-2 SUSPENSION SYSTEM ATTACHMENT DEVICES SHALL BE FIXED FOR FIVE (5) TIMES DESIGN LOAD INDICATED IN ASTM C635, TABLE I, DIRECT HUNG, UNLESS OTHERWISE NOTED

YIELD STRESS OF WIRE, BUT PROVIDE NOT LESS THAN 0.106" DIAMETER (12 GAUGE).

CISCA "CEILING SYSTEMS HANDBOOK" ASTM C636 "STANDARD FOR INSTALLATION OF CEILING SUSPENSION SYSTEMS" ASTM C636 AND E580 AS APPLICABLE TO ACOUSTICAL SNAP-IN METAL PAN CEILINGS.

WHERE ACOUSTICAL PANEL CEILINGS ARE REQUIRED TO COMPLY WITH A FIRE HAZARD CLASSIFICATION FOR FLAMESPREAD, FUEL CONTRIBUTION, 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.

PROVIDE MANUFACTURER'S STANDARD UNITS FOR CONFIGURATION INDICATED WHICH ARE PREPARED FOR MOUNTING METHOD DESIGNATED AND WHICH COMPLY WITH FS SS-S-118 REQUIREMENTS, INCLUDING THOSE INDICATED BY REFERENCE TO TYPE, FORM, PATTERN, GRADE, LIGHT REFLECTANCE COEFFICIENT, EDGE DETAIL, AND JOINT DETAIL.

OBTAIN UNITS FROM ONE MANUFACTURER, CURED BY ONE PROCESS, AND OF UNIFORM TEXTURE AND COLOR FOR EACH TYPE REQUIRED, FOR EACH CONTINUOUS, VISUALLY RELATED AREA. DO NOT CHANGE BRANDS OF MATERIALS DURING THE COURSE OF THE WORK WITHOUT

09500-9 NECESSARY COMPONENTS FOR A COMPLETE SUSPENSION SYSTEM SHALL BE SUPPLIED, INCLUDING BUT NOT LIMITED TO INSERTS, ANCHORS. HANGERS, CARRYING CHANNELS, MAIN RUNNERS, CROSS RUNNERS, SPLINES, EDGE MOLDINGS, SPLICES, CLIPS, FASTENERS, TIRE WIRES, HOLD-DOWN DEVICES, AND ACCESSORIES AND DEVICES AS APPLICABLE.

09500-10 OTHERWISE NOTED.

APPROVAL.

09500-11

DIAMETER REQUIRED TO FIT PENETRATION EXACTLY.

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ACOUSTICAL UNITS, INCLUDING PRECAUTIONS AGAINST MATERIALS AND METHODS WHICH MAY BE DETRIMENTAL TO FINISHES AND ACOUSTICAL PERFORMANCE. 09500-15

THICKNESS, AND MATERIAL INDICATED FOR FINAL UNIT OF WORK.

SUBMIT FULL-SIZE SAMPLES OF EACH TILE TYPE, PATTERN, AND COLOR REQUIRED.

SUPPRESSION SYSTEM COMPONENTS, AND PARTITION SYSTEM.

09500-19 EXAMINE SUBSTRATES AND STRUCTURAL FRAMING TO WHICH CEILING SYSTEM ATTACHES OR ABUTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THIS AND OTHER SECTIONS THAT AFFECT INSTALLATION AND ANCHORAGE OF CEILING SYSTEM. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. 09500-20

DO NOT INSTALL INTERIOR ACOUSTICAL CEILINGS UNTIL SPACE IS ENCLOSED AND WEATHERPROOF, WET WORK IN SPACE IS COMPLETED AND NOMINALLY DRY, WORK ABOVE CEILINGS IS COMPLETE, AND AMBIENT CONDITIONS OF TEMPERATURE AND HUMIDITY WILL BE CONTINUOUSLY MAINTAINED AT VALUES NEAR THOSE INDICATED FOR FINAL OCCUPANCY.

MEASURE EACH CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL UNITS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING. AVOID THE USE OF LESS-THAN- HALF WIDTH UNITS AT BORDERS AND COMPLY WITH REFLECTED CEILING PLANS WHEREVER POSSIBI F 09500-22

LAY OUT PANELS TO MINIMIZE WASTE; REUSE CUTOFFS WHENEVER FEASIBLE. DIRECTIONALLY-PATTERNED ACOUSTICAL UNITS SHALL BE ARRANGED AND ORIENTED IN THE SAME DIRECTION.

MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND SHALL COMPLY WITH GOVERNING REGULATIONS, FIRE RESISTANCE RATING REQUIREMENTS AS INDICATED, AND INDUSTRY STANDARDS APPLICABLE TO THE WORK.

INSTALL SUSPENSION SYSTEM TO COMPLY WITH ASTM C636, WITH HANGERS SUPPORTED ONLY FROM BUILDING STRUCTURAL MEMBERS AS INDICATED.

09500-26 HANGERS SHALL BE LOCATED NEAR EACH END (WITHIN 12") AND SPACED 4'-0" ALONG EACH CARRYING CHANNEL OR DIRECT-HUNG RUNNERS, UNLESS OTHERWISE NOTED.

09500-27 HANGER WIRES SHALL BE INSTALLED AT RECESSED LIGHT FIXTURES RESTING ON SAME CEILING COMPONENT OR SUPPORTED BY CROSS TEES ON MORE THAN TWO (2) SIDES. SECURE WIRE HANGERS BY LOOPING AND WIRE-TIEING EITHER DIRECTLY TO STRUCTURES OR TO INSERTS, EYE-SCREWS OR OTHER DEVICES WHICH ARE SECURE AND APPROPRIATE FOR THE SUBSTRATE AND WHICH WILL NOT DETERIORATE OR FAIL WITH AGE OR ELEVATED TEMPERATURE.

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

PROVIDE 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 NOT USE ACID-TYPE CLEANING AGENTS OR OTHER CLEANING COMPOUNDS CONTAINING CAUSTIC OR HARSH FILLERS UNLESS EXPRESSLY APPROVED BY STONE PRODUCER FOR TYPE OF

WHEN RECOMMENDED BY THE STONE MANUFACTURER, APPLY A PROTECTIVE COAT OF NEUTRAL PROTECTIVE CLEANER TO COMPLETED FLOORS. PROTECT INSTALLED STONE WORK WITH KRAFT PAPER OR OTHER HEAVY COVERING DURING THE CONSTRUCTION PERIOD TO

STONE INSTALLER IS TO PROVIDE 1/8" ZINC STRIP FOR ALL TRANSITIONS FROM STONE TO CARPET. UNLESS NOTED OTHERWISE BY DETAILS

FIELD MOCK-UP: INSTALL A FULLY FINISHED MOCK-UP FOR EACH TYPE TILE INSTALLATION. MOCK-UP SHALL BE A MINIMUM OF 10'0"X 10'0" AND

EXTRA STOCK: FURNISH EXTRA STOCK OF QUANTITY EQUAL TO 5% OF AMOUNT INSTALLED, IN FULL-SIZE UNITS, FOR EACH TYPE, COLOR, SIZE

ALL PRODUCTS SUPPLIED SHALL BE STORED IN A DRY ENCLOSURE AND PROTECTED FROM THE WEATHER, DIRECT SUNLIGHT, SURFACE CONTAMINATION, AGING, DAMAGING TEMPERATURES, DAMAGE FROM CONSTRUCTION TRAFFIC, AND OTHER POTENTIAL ADVERSITIES.

APPLY FULL COVERAGE UNDER ALL STONE FLOORING WITH CRACK ISOLATION MEMBRANE. INSTALLATION SHALL COMPLY WITH ANSI-A108.17 AND TCNA-F125A-09. PREPARATION OF CRACK ISOLATION MEMBRANE SHOULD BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

SECTION 09500 ACOUSTICAL TILE CEILINGS

PROVIDE WIRE SIZED SO THAT STRESS AT THREE (3) TIMES HANGER DESIGN LOAD (ASTM C635, TABLE I, DIRECT HUNG) SHALL BE LESS THAN

ACOUSTICAL CEILINGS SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING STANDARDS:

PROVIDE MANUFACTURER'S STANDARD UNITS OF METAL, FINISH, AND SHAPES RECOMMENDED FOR THE APPLICATIONS INDICATED, UNLESS

PROVIDE EXPOSED SINGLE-FLANGE MOLDINGS FOR SUPPORT AT EDGES OF CEILING, AT WALLS, PENETRATIONS, ETC.

PROVIDE SUSPENSION MANUFACTURER'S SPECIAL EDGE-TRIM MOLDING OF TYPES INDICATED FOR INTERRUPTIONS IN CEILING WHERE EDGES OF TILE WOULD OTHERWISE BE EXPOSED. CIRCULAR PENETRATIONS TO CEILING SHALL HAVE EDGE MOLDINGS FABRICATED TO

SUBJECT TO COMPLIANCE WITH REQUIREMENTS; PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:

SUBMIT MANUFACTURER'S PRODUCT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR EACH ACOUSTICAL CEILING MATERIAL REQUIRED AND FOR EACH SUSPENSION SYSTEM, INCLUDING CERTIFIED LABORATORY TEST REPORTS AND OTHER DATA AS REQUIRED TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS. INCLUDE MANUFACTURER'S RECOMMENDATION FOR CLEANING AND REFINISHING

SUBMIT SAMPLES FOR VERIFICATION PURPOSES OF EACH TYPE OF EXPOSED FINISH REQUIRED, PREPARED ON SAMPLES OF SIZE,

COORDINATE LAYOUT AND INSTALLATION OF ACOUSTICAL CEILING UNITS AND SUSPENSION SYSTEM COMPONENTS WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, FIRE-

DELIVER ACOUSTICAL CEILING UNITS TO PROJECT SITE IN ORIGINAL UNOPENED PACKAGES AND STORE THEM IN A FULLY ENCLOSED SPACE WHERE THEY WILL BE PROTECTED AGAINST DAMAGE FROM MOISTURE, DIRECT SUNLIGHT, SURFACE CONTAMINATION. OR OTHER CAUSES.

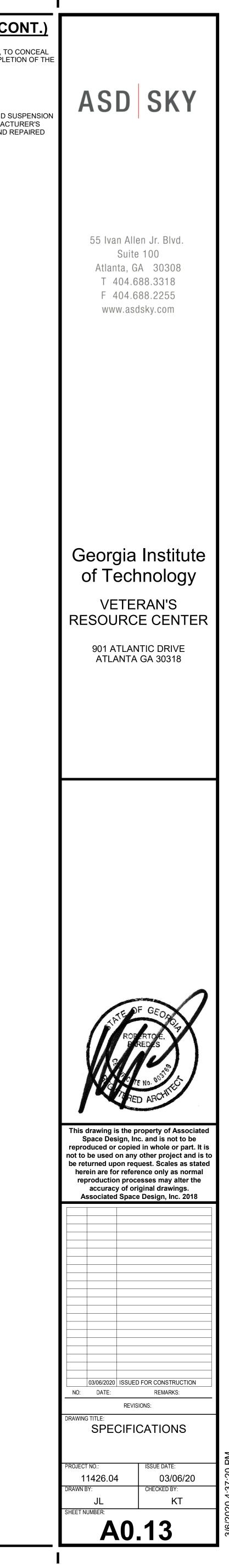
SECTION 09500 ACOUSTICAL TILE CEILINGS (CONT.

EDGE TRIM MOLDINGS SHALL BE INSTALLED WHERE INDICATED, AND ELSEWHERE AS NEEDED. TO CONCEAL EDGES OF ACOUSTICAL UNITS WHICH WOULD OTHERWISE BE EXPOSED TO VIEW AFTER COMPLETION OF THI WORK. ANCHOR WITH FASTENER OR SECURE IN PLACE WITH PERMANENT ADHESIVE.

INSTALL ACOUSTICAL TILE IN ACCORDANCE WITH SUSPENSION SYSTEM.

CLEAN EXPOSED SURFACES OF ACOUSTICAL CEILINGS, INCLUDING TRIM, EDGE MOLDINGS, AND SUSPENSIO MEMBERS. CLEANING AND TOUCH-UP OF MINOR FINISH DAMAGE SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS. REMOVE AND REPLACE WORK THAT CANNOT BE SUCCESSFULLY CLEANED AND REPAIRED TO PERMANENTLY ELIMINATE EVIDENCE OF DAMAGE.

09500-31 VISIBLE SIGNS OF TOUCH-UP OR REPAIR TO EXPOSED SURFACES WILL NOT BE ACCEPTED.



SECTION 09680 CARPET / CARPET TILE

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE SCHEDULING, RECEIVING, INSPECTION AND INSTALLATION OF THE GOODS AND MATERIALS TO BE USED IN THIS WORK. CARPET GOODS SHALL BE DELIVERED TO THE JOB SITE IN THE MANUFACTURER'S ROLLS OR PACKAGES AND SHALL BE CLEARLY MARKED AS TO SIZE, DYE LOT AND MATERIAL.

09680-2THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY ALL DIMENSIONS AND OTHER CONDITIONS AS REQUIRED TO ACCURATELY LAY OUT AND FIT ALL ITEMS SPECIFIED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE DRAWINGS. ANY DIFFERENCE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE ACCURACY OF HIS MEASUREMENTS ON TOTAL YARDAGE REQUIREMENTS TO BE FURNISHED.

CORRECTNESS OF THE SAME.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL GOODS STORED ON THE JOB SITE.

BEFORE ORDERING ANY MATERIALS OR FABRICATING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE FOR ALL WORK WHICH MUST BE ACCURATELY FITTED TO OTHER CONSTRUCTION, INCLUDING WALL-TO-WALL, OFFSET, DOOR AND OTHER DIMENSIONS CONTROLLED BY OTHER TRADES AND SHALL BE RESPONSIBLE FOR THE

09680-7 COMPLY WITH CARPET MANUFACTURER'S INSTALLATION RECOMMENDATIONS TO PREPARE SUBSTRATES INDICATED TO RECEIVE CARPET INSTALLATION. LEVEL SUBFLOOR TO WITHIN 1/4" IN 10 FEET, NONCUMULATIVE, IN ALL DIRECTIONS. SAND OR GRIND PROTRUSIONS, BUMPS AND RIDGES TO BE SMOOTH. PATCH AND REPAIR CRACKS AND ROUGH AREAS, FILL DEPRESSIONS, USE LEVELING AND PATCHING COMPOUNDS TO FILL CRACKS AND DEPRESSIONS IN SUBFLOOR AS RECOMMENDED BY THE CARPET MANUFACTURER.

09680-8 ALL CARPET OF THE SAME SPECIFICATION SHALL COME FROM THE SAME DYE LOT AND MUST MEET INDUSTRY STANDARDS FOR SIDE TO SIDE MATCH.

09680-9

09680-4

THE CONTRACTOR SHALL USE LOW VOC ADHESIVE (LESS THAN 50 g/L) AS RECOMMENDED BY THE MANUFACTURER.

SUBMIT THE MANUFACTURER'S INSTALLATION MANUAL, MAINTENANCE GUIDE AND STANDARD WARRANTY FOR ALL SPECIFIED CARPETS.

09680-14

SUBMIT THREE 24" X 24" SAMPLES OF ALL ORDERED DYE LOTS FOR SPECIFIED CARPETS.

09680-12 SUBMIT SEAMING LAYOUT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION. DIRECTION OF SEAMING AND VARIOUS COLOR AND PATTERN LOCATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS.

09680-13 CARPET SHALL BE INSTALLED BY THE 'DIRECT GLUE DOWN' METHOD USING THE MANUFACTURER'S MOST STRINGENT RECOMMENDATIONS AND REQUIREMENTS. INSTALL STABILIZED, LOW VOC TYPE ADHESIVE. VERIFY COMPATIBILITY OF ADHESIVE AND SUBSTRATE BEFORE INSTALLATION.

INSTALLATION SHALL BE PERFORMED BY SKILLED MECHANICS IN ACCORDANCE WITH CRI STANDARD 104. "STANDARD PRACTICE FOR INSTALLATION OF TEXTILE FLOOR COVERING MATERIALS" BY THE CARPET AND RUG INSTITUTE AND WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THE MOST STRINGENT REQUIREMENTS SHALL APPLY. INSTALLATION SHALL BE WITH THE HIGHEST DEGREE OF WORKMANSHIP. INSTALLATION CRAFTSMEN SHALL BE REQUIRED TO SHOW EVIDENCE OF AT LEAST THREE YEARS EXPERIENCE IN CARPET INSTALLATION WORK OF A SIMILAR QUALITY.

09680-15 EXTEND CARPET UNDER OPEN-BOTTOMED AND RAISED-BOTTOMED OBSTRUCTIONS AND UNDER REMOVABLE FLANGES OF OBSTRUCTIONS. EXTEND CARPET INTO CLOSETS AND ALCOVES OF ROOMS INDICATED TO BE CARPETED, UNLESS ANOTHER FLOOR FINISH IS INDICATED FOR SUCH SPACES. EXTEND CARPET UNDER ALL MOVABLE FURNITURE AND EQUIPMENT, UNLESS NOTED OTHERWISE.

SEAMS SHALL BE PRESSED BY HAND AND/OR SUITABLE TOOL TO PRODUCE THE BEST POSSIBLE EVEN TOP PILE WIDTH-TO-WIDTH. SEAMS SHALL BE SEALED WITH APPROPRIATE SEAM SEALER. ADJACENT WIDTHS OF CARPET MUST BE INSTALLED TO FINISH AT EXACTLY THE SAME ELEVATION, OR THE WORK WILL BE REJECTED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.

09680-17 ALL CARPET WIDTHS SHALL BE INSTALLED WITH ALL ROWS OF PILE RUNNING IN THE SAME DIRECTION, UNLESS SHOWN OTHERWISE ON THE APPROVED SHOP DRAWINGS.

09680-18 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLASH PATCHING AND TO HAVE THE FLOOR IN CONDITION TO RECEIVE THE

09680-21

09680-27

SCHEDULED FLOORING. 09680-19

FIELD MOCK-UP: INSTALL A FULLY FINISHED MOCK-UP FOR EACH TYPE TILE INSTALLATION. MOCK-UP SHALL BE A MINIMUM OF 10'0"X 10'0" AND WILL BE REVIEWED FOR JOINT QUALITY, COLOR RANGE, PATTERN AND WORKMANSHIP.

09680-20 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.

ALL PRODUCTS SUPPLIED SHALL BE STORED IN A DRY ENCLOSURE AND PROTECTED FROM THE WEATHER, DIRECT SUNLIGHT, SURFACE CONTAMINATION, AGING, DAMAGING TEMPERATURES, DAMAGE FROM CONSTRUCTION TRAFFIC, AND OTHER POTENTIAL ADVERSITIES, DAMAGED MATERIALS SHALL BE REMOVED FROM THE JOBSITE.

09680-22 CLEAN OLD CARPET PRIOR TO REMOVAL.

09680-23 VACUUM-CLEAN SURFACES THOROUGHLY, IMMEDIATELY BEFORE INSTALLATION.

09680-24 CLEAN NEW CARPET THOROUGHLY WITH A HIGH-EFFICIENCY PARTICULATE AIR (HEPA) FILTRATION VACUUM.

09680-25 CHECK SUBSTRATES TO ENSURE THAT NO DUSTING WILL OCCUR THROUGH INSTALLED CARPET. APPLY SEALER ON POROUS CONCRETE SURFACES WHERE REQUIRED TO PREVENT DUSTING.

09680-26

PRE-VENTILATE CARPET. UNROLL AND AIR OUT CARPET IN A WELL-VENTILATED, UNINHABITED SPACE FOR A MINIMUM OF SEVERAL HOURS, PREFERABLY A FEW DAYS, PRIOR TO INSTALLLATION.

INSTALL CARPET AFTER ALL WET WORK IN SPACES IS COMPLETE AND DRY, AND AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE MAINTAINED AT THE LEVELS INDICATED FOR PROJECT WHEN OCCUPIED FOR ITS INTENDED USE.

09680-28 PROVIDE MAXIMUM VENTILATION DURING INSTALLATION.

09680-29 VACATE AND VENTILATE SPACE FOR AS LONG AS POSSIBLE (UP TO TWO WEEKS) AFTER INSTALLATION.

09900-*

ALL INTERIOR PAINTS AND COATING APPLIED ON-SITE MUST MEET THE LIMITATIONS AND RESTRICTIONS CONCERNING CHEMICAL COMPONENTS SET BY THE FOLLOWING STANDARDS. "TOPCOAT PAINTS: GREEN SEAL STANDARD GS-11, PAINTS", FIRST EDITION, MAY 20, 1993. "ANTI-CORROSIVE AND ANTI-RUST PAINTS: GREEN SEAL STANDARD GS-03, ANTI-CORROSIVE PAINTS". SECOND EDITION, JANUARY 7. 1997. FOR APPLICATIONS ON FERROUS METAL SUBTRATES. "ALL OTHER ARCHITECTURAL COATINGS, PRIMERS AND UNDERCOATINGS, PRIMERS AND UNDERCOATS: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113, ARCHITECTURAL COATINGS," RULES IN EFFECT ON JANUARY 1, 2004. PAINT EXPOSED SURFACES WHETHER OR NOT COLORS ARE DESIGNATED IN SCHEDULES, EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS TO REMAIN NATURAL. WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF FINISH IS NOT DESIGNATED, REQUEST THAT THE ARCHITECT SELECT FINISH FROM STANDARD COLORS AND FINISHES AVAILABLE. PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPE AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT. DO NOT PAINT OVER UNDERWRITER'S LABORATORIES, FACTORY MUTUAL OR OTHER CODE REQUIRED LABELS OR EQUIPMENT NAME, IDENTIFICATION, PERFORMANCE RATING OR NOMENCLATURE PLATES. 09900-5 SUBMIT PRODUCT DATA FOR EACH PAINT SYSTEM SPECIFIED, INCLUDING BLOCK FILLERS AND PRIMERS. PRODUCT DATA SHALL INCLUDE THE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATION BY THE MANUFACTURER THAT ALL PRODUCTS SUPPLIED COMPLY WITH ALL REGULATIONS CONTROLLING USE OF VOLATILE ORGANIC COMPOUNDS (VOC'S). 09900-6 SUBMIT SAMPLES TO INCLUDE BUT NOT LIMITED TO: PAINTED WOOD: PROVIDE TWO 12" SQUARE SAMPLES OF EACH COLOR AND MATERIAL ON IT'S SCHEDULED SUBSTRATE. IDENTIFY EACH FINISH AND SCHEDULED LOCATION. STAINED OR NATURAL WOOD: PROVIDE TWO 12" SQUARE SAMPLES OF THE SPECIFIED FINISH ON THE ACTUAL VENEERS AND SOLID STOCK WOOD SPECIES NOTED. IDENTIFY EACH FINISH AND SCHEDULED LOCATION. 09900-7 EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH PAINTING WILL BE PERFORMED FOR COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS FOR APPLICATION OF PAINT. DO NOT BEGIN PAINT APPLICATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. 09900-8 TEST EXISTING FINISHES FOR LEAD BEFORE SANDING, SCRAPING, OR REMOVING. IF LEAD IS PRESENT, CONFORM TO PROCEDURES APPLICABLE WHEN HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED. 09900-9 PROVIDE THE MANUFACTURER'S BEST COMMERCIAL GRADE QUALITY PAINT MATERIAL ON THE VARIOUS COATING TYPES SPECIFIED. PAINT MATERIAL CONTAINERS NOT DISPLAYING THE MANUFACTURER'S PRODUCT IDENTIFICATION WILL NOT BE ACCEPTABLE. 09900-10

Α

PROVIDE COMPATIBLE PRIMERS AND UNDERCOAT PAINT AS SPECIFIED BY THE MANUFACTURER OF THE FINISH COATS.

09900-11 SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED. 09900-12

CONTRACTOR TO VERIFY IN FIELD. 09900-13 OF A DURABLE PAINT FILM.

09900-14 FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE. 9900 - 15

THICKNESS EQUIVALENT TO THAT SPECIFIED. 09900-16

09900-17

DURON PAINT 09900-18 09900-19

EGGSHELL SHEEN WALLS, UNLESS NOTED OTHERWISE. 09900-20

09900-21

PAINTS. 09900-22

09900-23 ISOLATE AREA OF APPLICATION FROM REST OF BUILDING.

09900-24 VACATE SPACE FOR AS LONG AS POSSIBLE AFTER APPLICATION. WAIT A MINIMUM OF 48 HOURS BEFORE OCCUPYING FRESHLY PAINTED ROOMS.

09900-25 SEPARATE WASTE IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN, IF APPLICABLE. SET ASIDE EXTRA PAINT FOR FUTURE COLOR MATCHES, OR REUSE BY OWNER, SCHOOL THEATER SET DESIGNERS, HABITAT FOR HUMANITY, ETC.

09900-26

09900-27

09900-28 DISPOSAL

SECTION 09900 PAINTING

APPLY PAINT ACCORDING TO MANUFACTURER'S INSTRUCTIONS. USE APPLICATORS AND TECHNIQUES BEST SUITED FOR

PAINT ANY REUSED HVAC DIFFUSERS AND RETURN AIR GRILLES TO MATCH ADJACENT CEILING GRID, UNLESS NOTED OTHERWISE.

DO NOT PAINT OVER DIRT, RUST SCALE, GREASE, MOISTURE, SCUFFED SURFACES, OR CONDITIONS DETRIMENTAL TO FORMATION

APPLY ADDITIONAL COATS IF UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT UNTIL PAINT

ENSURE THAT SURFACES, INCLUDING EDGES, CORNERS, CREVICES, WELDS, AND EXPOSED FASTENERS RECEIVE A DRY FILM

APPLY WATER BASED PAINTS ONLY WHEN THE TEMPERATURE OF THE SURFACES TO BE PAINTED AND SURROUNDING AIR TEMPERATURES ARE BETWEEN 50° F AND 90° F. APPLY SOLVENT THINNED PAINTS ONLY WHEN THE TEMPERATURE OF SURFACES TO BE PAINTED AND SURROUNDING AIR TEMPERATURES ARE BETWEEN 45° F AND 95° F.

PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING MANUFACTURERS: BENJAMIN MOORE AND CO. THE SHERWIN WILLIAMS CO.

DEVOE AND REYNOLDS CO.

PROVIDE PAINT OR COATING SYSTEM WITH THE LEAST TOXIC ALTERNATIVE.

FOR ALL GYPSUM WALL BOARD SURFACES. APPLY ONE COAT OF PRIMER AND TWO COATS OF ACRYLIC LATEX FOR FLAT SHEEN WALLS, UNLESS NOTED OTHERWISE. APPLY ONE COAT OF PRIMER AND TWO COATS OF LATEX ENAMEL FOR SEMI-GLOSS OR

OPAQUE FINISHES FOR WOOD DOORS SHALL BE ONE COAT OF FACTORY APPLIED PRIMER AND TWO COATS OF SEMI-GLOSS LATEX ENAMEL, UNLESS NOTED OTHERWISE.

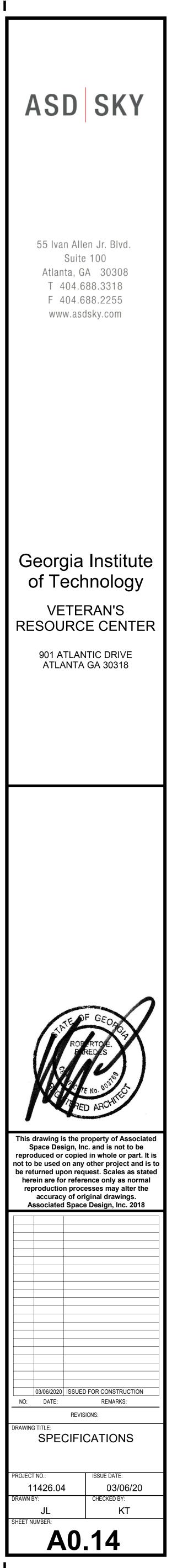
WEAR PROATECTIVE CLOTHING AND RESPIRATORS WHEN APPLYING OIL-BASED PAINTS OR USING SPRAY EQUIPMENT WITH ANY

MAXIMIZE VENTILATION DURING APPLICATION AND DRYING.

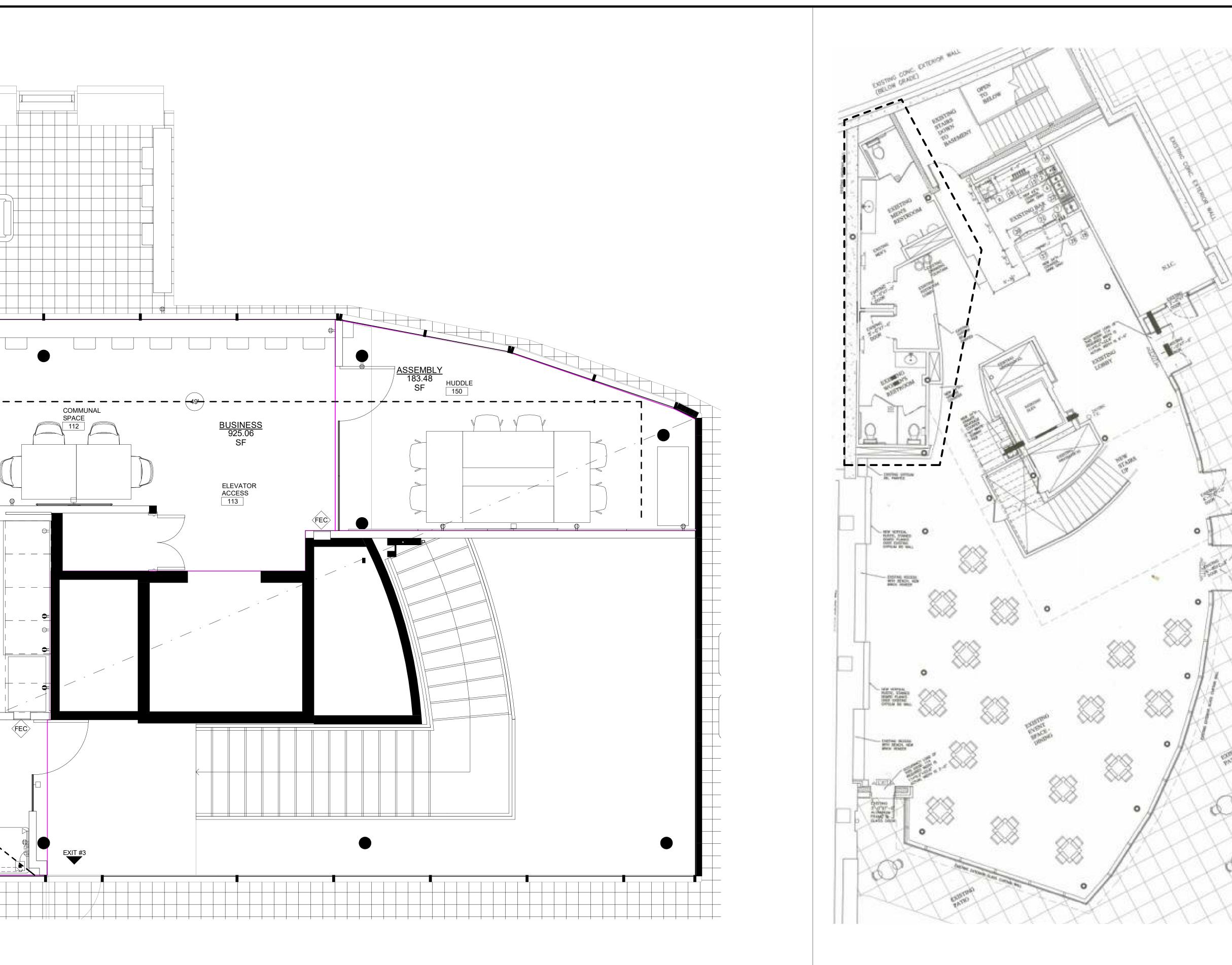
CLOSE AND TIGHTLY SEAL ALL PARTLY USED PAINT AND FINISH CONTAINERS AND STORE PROTECTED IN WELL-VENTILATED, FIRE-SAFE AREA AT MODERATE TEMPERATURE.

PLACE EMPTY CONTAINERS OF SOLVENT-BASED PAINTS IN AREAS DESIGNATED FOR HAZARDOUS MATERIALS.

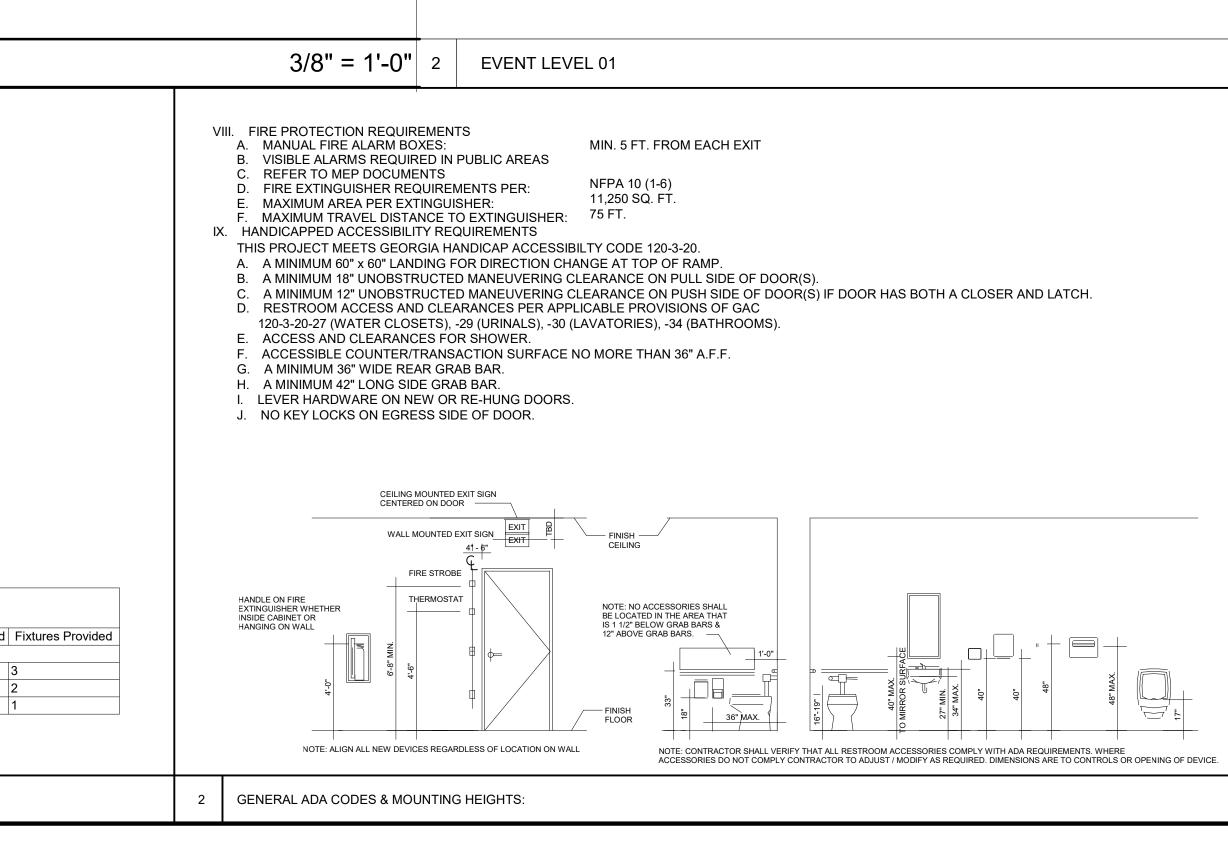
DO NOT DISPOSE OF PAINTS OF SOLVENTS BY POURING ON THE GROUND. PLACE IN DESIGNATED CONTAINERS FOR PROPER

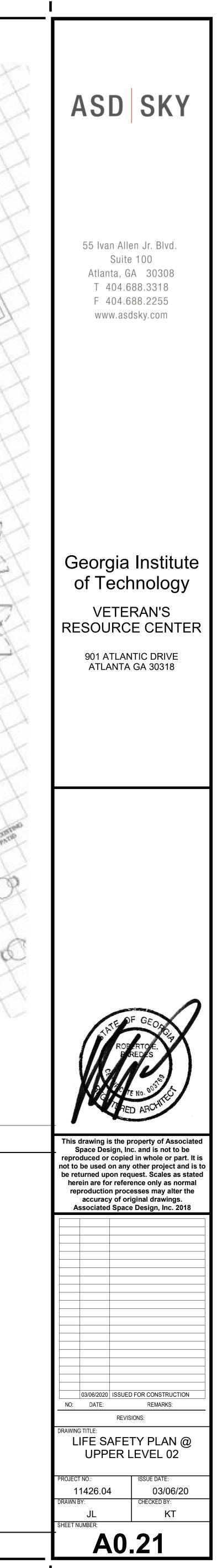


		OPEN AREA 132	WORK
			BREAK R
	OFFICE 100		

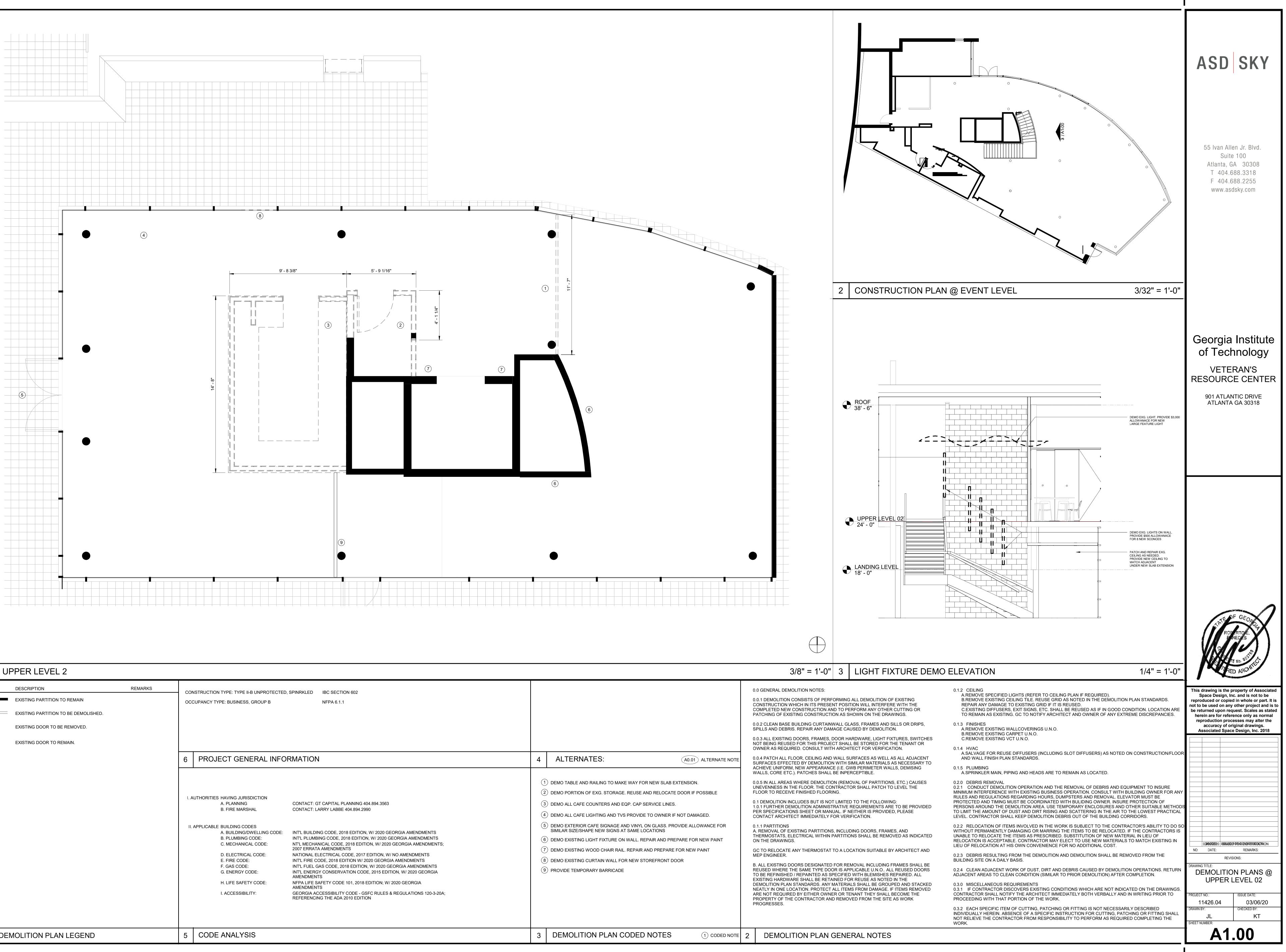


	CATION TYP ICTION ARE OCCUPAN	A:	BUSINESS, 0 2ND FLOOR 24		FT.			NFPA 6.1.1 NFPA 7.3.1.2		
		Occupar	nt Load Schedule							
Name	Are	a (Occupant Load Fact	tor	Occupant	Load				
BUSINESS	925.06	SF 150.00	SF		6.2					
ASSEMBLY	183.48				16.7					
		Exit C	Capacity Schedule							
Exit No.	Stairway	Capacity .3	Level Component	Capacity	/.2 Total (Capacity				
EXIT #1 -		-	6'-0" (68")	340	340					
EXIT #2 - EXIT #3 -		-	3'-0" (32") 3'-0" (32")	160 160	160 160					
Grand total: 3		-	3-0 (32)	100	660					
H. EGRESS WIE 1. LEVEL 2. STAIRS	OTH PER EX	IT (MINIMUM)	.2 (32" DIVID .3 (44" DIVID	ED BY .2 = 1 ED BY .3 = 1	47 PERSON	S @ EA. I	EXITS) EXITS) equirement	NFPA TABLE	7.3.3.1	
Fixture Ty	pe		Code Comment	S		Oc	cupancy Class	fication	Occupant Load	Fixt
Water Closet	·	por 40 for first 00	and 1 per 80 for remainde		90		ess 1/40		·	1
Lavatories			t 50 and 1 per 50 for the re				ess 1/40 ess 2/50		ess = 7 ess = 7	1
Drinking Fountain		per 100					ess 1/100		ess = 7	1



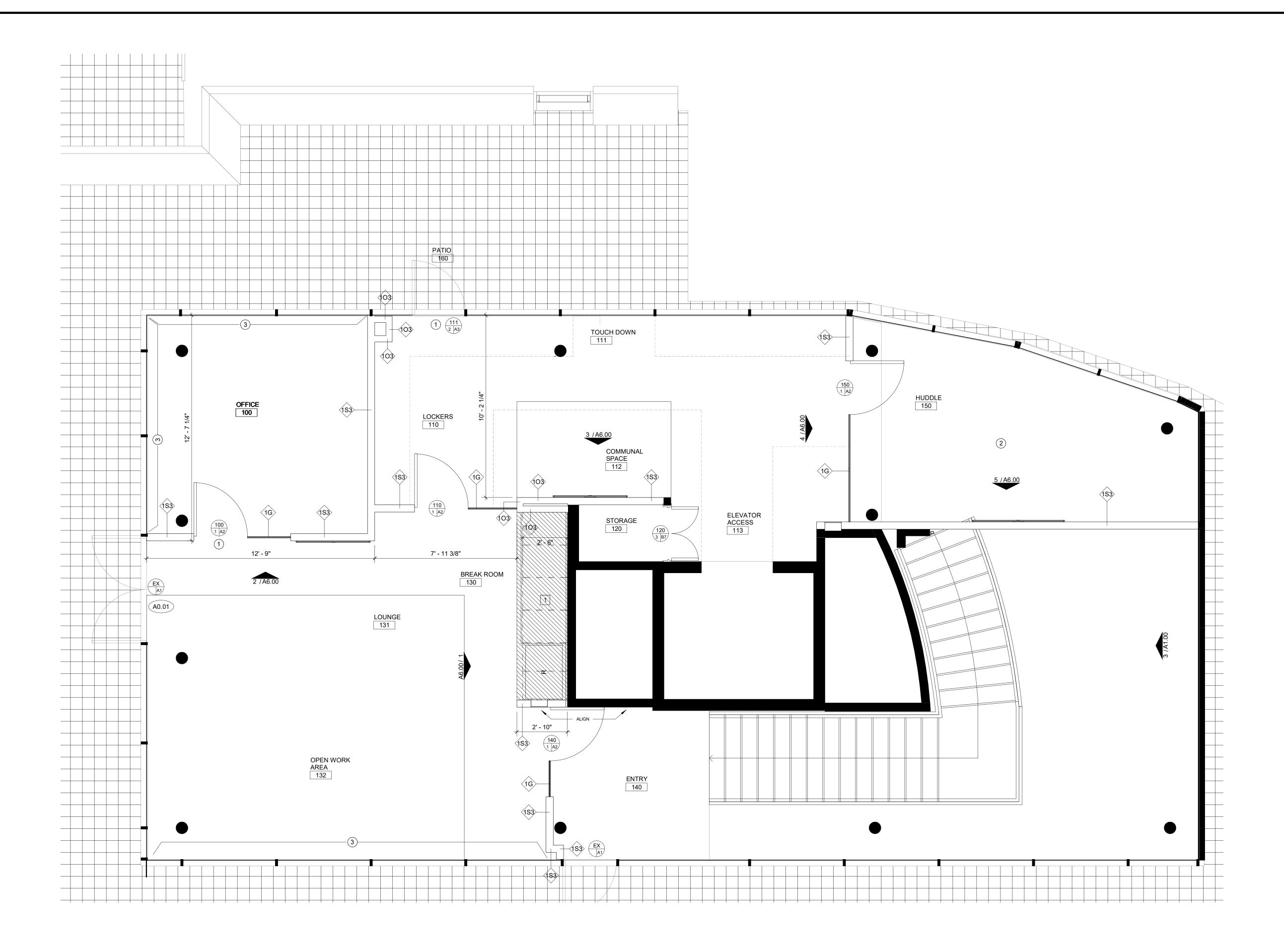


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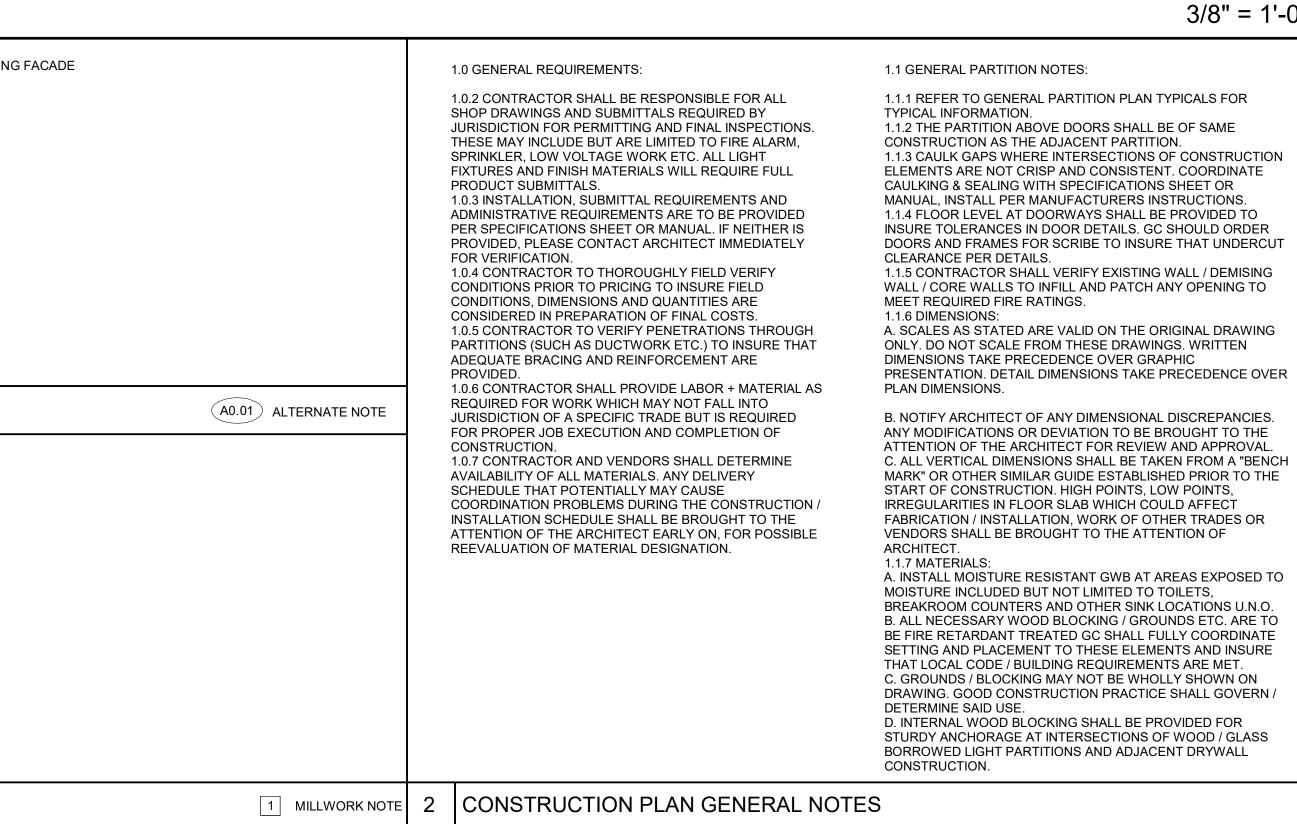


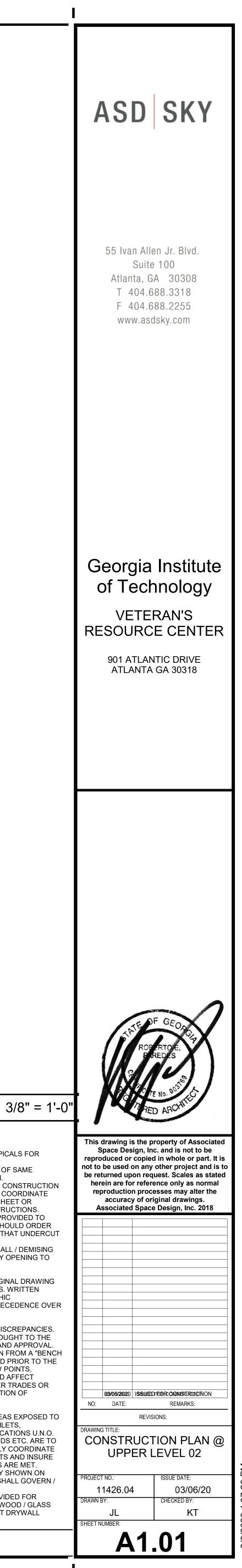
1	UPPER LEVEL 2				
SYMBO	L DESCRIPTION EXISTING PARTITION TO REMAIN EXISTING PARTITION TO BE DEMOLISHED. EXISTING DOOR TO BE REMOVED. EXISTING DOOR TO REMAIN.	 EXISTING PARTITION TO REMAIN EXISTING PARTITION TO BE DEMOLISHED. EXISTING DOOR TO BE REMOVED. 		NSTRUCTION TYPE: TYPE II-B UNPROTECTED	9, SPINRKLED IBC SECTIO NFPA 6.1.1
				NUTHORITIES HAVING JURISDICTION A. PLANNING B. FIRE MARSHAL APPLICABLE BUILDING CODES A. BUILDING/DWELLING CODE: B. PLUMBING CODES C. MECHANICAL CODE: D. ELECTRICAL CODE: E. FIRE CODE: F. GAS CODE: G. ENERGY CODE: H. LIFE SAFETY CODE: I. ACCESSIBILITY:	CONTACT: GT CAPITAL PLA CONTACT: GT CAPITAL PLA CONTACT: LARRY LABBE 4 INT'L BUILDING CODE, 2018 INT'L PLUMBING CODE, 2018 INT'L PLUMBING CODE, 2018 INT'L PLUMBING CODE, 2018 INT'L MECHANICAL CODE, 2 2007 ERRATA AMENDMENT NATIONAL ELECTRICAL CC INT'L FIRE CODE, 2018 EDIT INT'L FIRE CODE, 2018 EDIT INT'L FIRE CODE, 2018 EDIT INT'L FUEL GAS CODE, 2014 INT'L ENERGY CONSERVAT AMENDMENTS NFPA LIFE SAFETY CODE 1 AMENDMENTS GEORGIA ACCESSIBILITY (REFERENCING THE ADA 20
7	DEMOLITION PLAN LEGEND		5	CODE ANALYSIS	

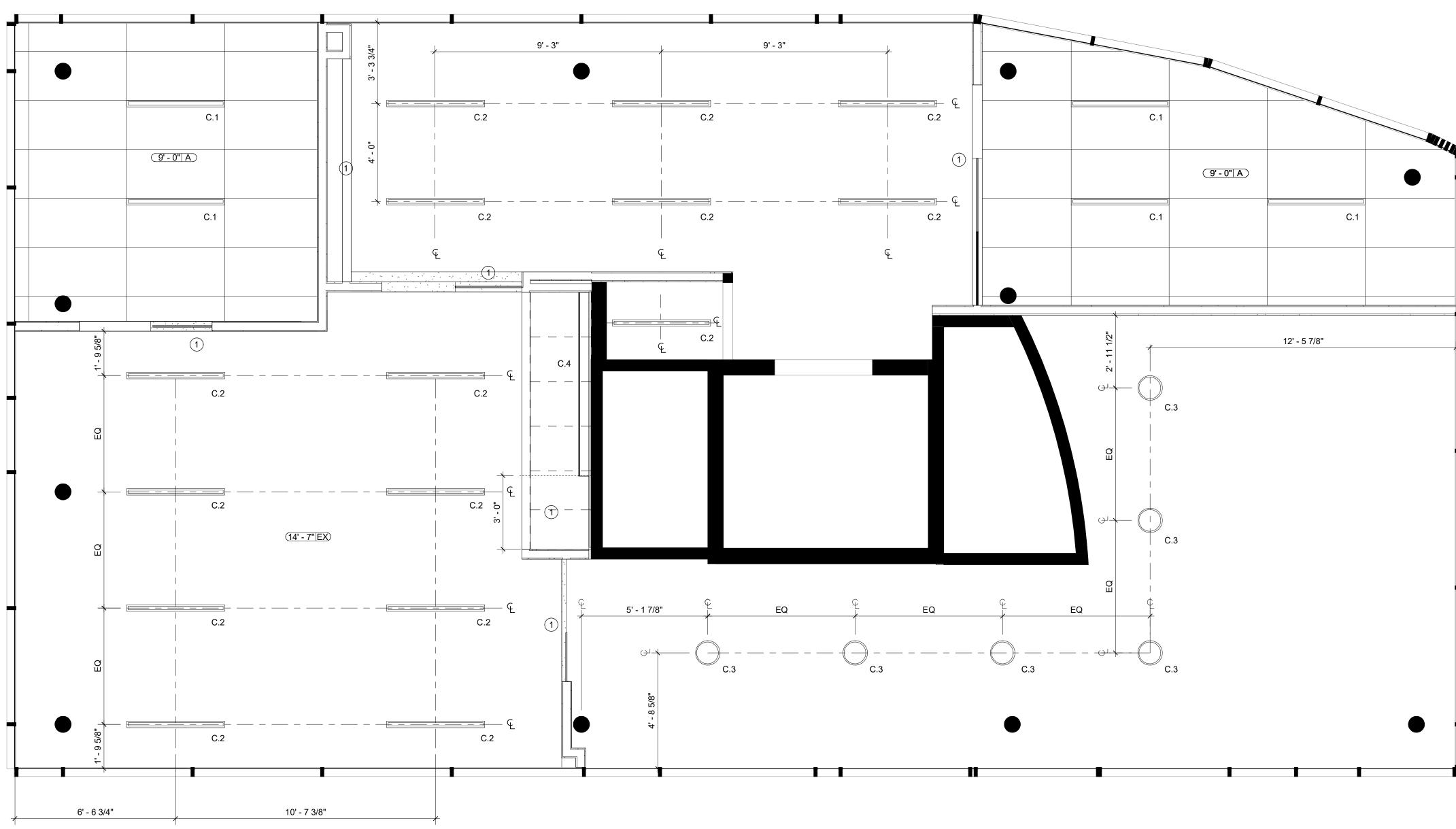
ON 602 1			
	4	ALTERNATES:	1) ALTERNATE NOTE
PLANNING 404.894.3563 2 404.894.2990 118 EDITION, W/ 2020 GEORGIA AMENDMENTS 1018 EDITION, W/ 2020 GEORGIA AMENDMENTS 2018 EDITION, W/ 2020 GEORGIA AMENDMENTS 2018 EDITION, W/ 2020 GEORGIA AMENDMENTS 2010 W/ 2020 GEORGIA AMENDMENTS 2011 EDITION, W/ 2020 GEORGIA AMENDMENTS 2018 EDITION, W/ 2020 GEORGIA AMENDMENTS ATION CODE, 2015 EDITION, W/ 2020 GEORGIA E 101, 2018 EDITION; W/ 2020 GEORGIA 2 101, 2018 EDITION; W/ 2020 GEORGIA 2 101, 2018 EDITION; W/ 2020 GEORGIA 2 101, 2018 EDITION; W/ 2020 GEORGIA		 DEMO TABLE AND RAILING TO MAKE WAY FOR NEW SLAB EXTENSION DEMO PORTION OF EXG. STORAGE. REUSE AND RELOCATE DOOR IN DEMO ALL CAFE COUNTERS AND EQP. CAP SERVICE LINES. DEMO ALL CAFE LIGHTING AND TVS PROVIDE TO OWNER IF NOT DATE DEMO EXTERIOR CAFE SIGNAGE AND VINYL ON GLASS. PROVIDE AND SIMILAR SIZE/SHAPE NEW SIGNS AT SAME LOCATIONS DEMO EXISTING LIGHT FIXTURE ON WALL. REPAIR AND PREPARE FOR NEW DEMO EXISTING WOOD CHAIR RAIL. REPAIR AND PREPARE FOR NEW DEMO EXISTING CURTAIN WALL FOR NEW STOREFRONT DOOR PROVIDE TEMPORARY BARRICADE 	F POSSIBLE MAGED. LOWANCE FOR DR NEW PAINT
	3	DEMOLITION PLAN CODED NOTES	1 CODED NOTE



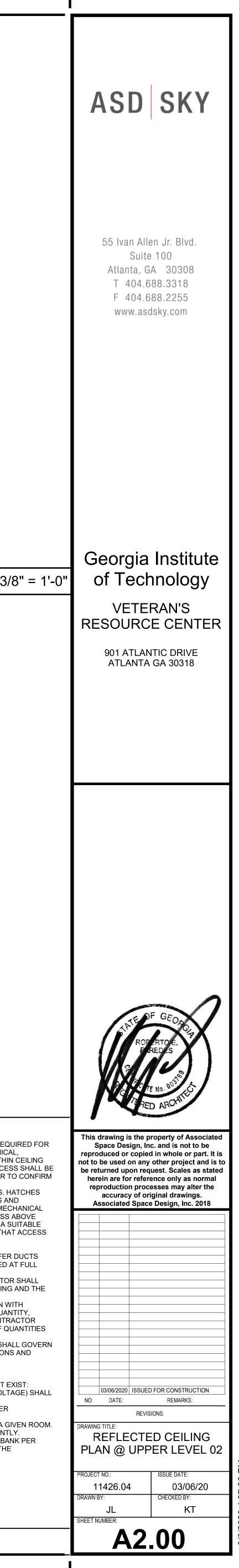
1 L	JPPER LEVEL 02					
SYMBOL	DESCRIPTION	REMARKS	1	I. ALL DOORS ARE TO BE LOCATED AS SHOWN U.N.O.	(A0.0	01 REMOVE DOOR AND REPLACE WITH GLASS TO MATCH EXISTIN
	 EXISTING PARTITION TO REMAIN WALL TYPE TAG NEW PARTITION NEW PARTITION TO STRUCTURE FIRE EXTINGUISHER CABINET - ***INSERT MANUFACTURER***, SOLID DOOR, FLAT TRIM FULLY RECESSED, ALUMINUM CABINET, COLOR IN WHITE SURFACE MOUNT FIRE EXTINGUISHER 	FIRE EXTINGUISHER - DRY CHEMICAL TYPE, CLASS B-C, SIZE 10 FIRE EXTINGUISHER - DRY CHEMICAL TYPE, CLASS B-C, SIZE 10		$\frac{1' - 6''}{CLR} + \frac{4''}{4}$		
	INDICATES MILLWORK PROVIDED AND INSTALLED BY G.C. DOOR AND HARDWARE, REFER TO DOOR SCHEDULE SHEET A8.01		5	GENERAL PARTITION PLAN TYPICALS:	4	ALTERNATES:
ONESIDED 103 TO STRUC	WALL TYPE 103: NON-RATED WALL W/ 3 5/8" MTL STUD TO	GLASS, RACO (DHIVE AS ALTERNATE) 3/A7.01 GLASS		NO. CONSTRUCTION NOTE 1 PROVIDE NEW ENTRY DOOR TO MATCH EXG. 2 PROVIDE NEW STEEL STRUCTURAL EXTENSION OF SLAB WITH METAL DECK AND CONCRETE TO MATCH ADJACENT. 3 PROVIDE MANUAL MECHOSHADES (MECHO/5)AT EXISTING CURTAIN WALL. CONTRACTOR TO PROVIDE AND INSTALL	1	NEW KITCHENETTE. SEE MILLWORK DETAILS
6 (CONSTRUCTION LEGEND		3	CONSTRUCTION PLAN CODED NOTES (1) CODED NOTE		

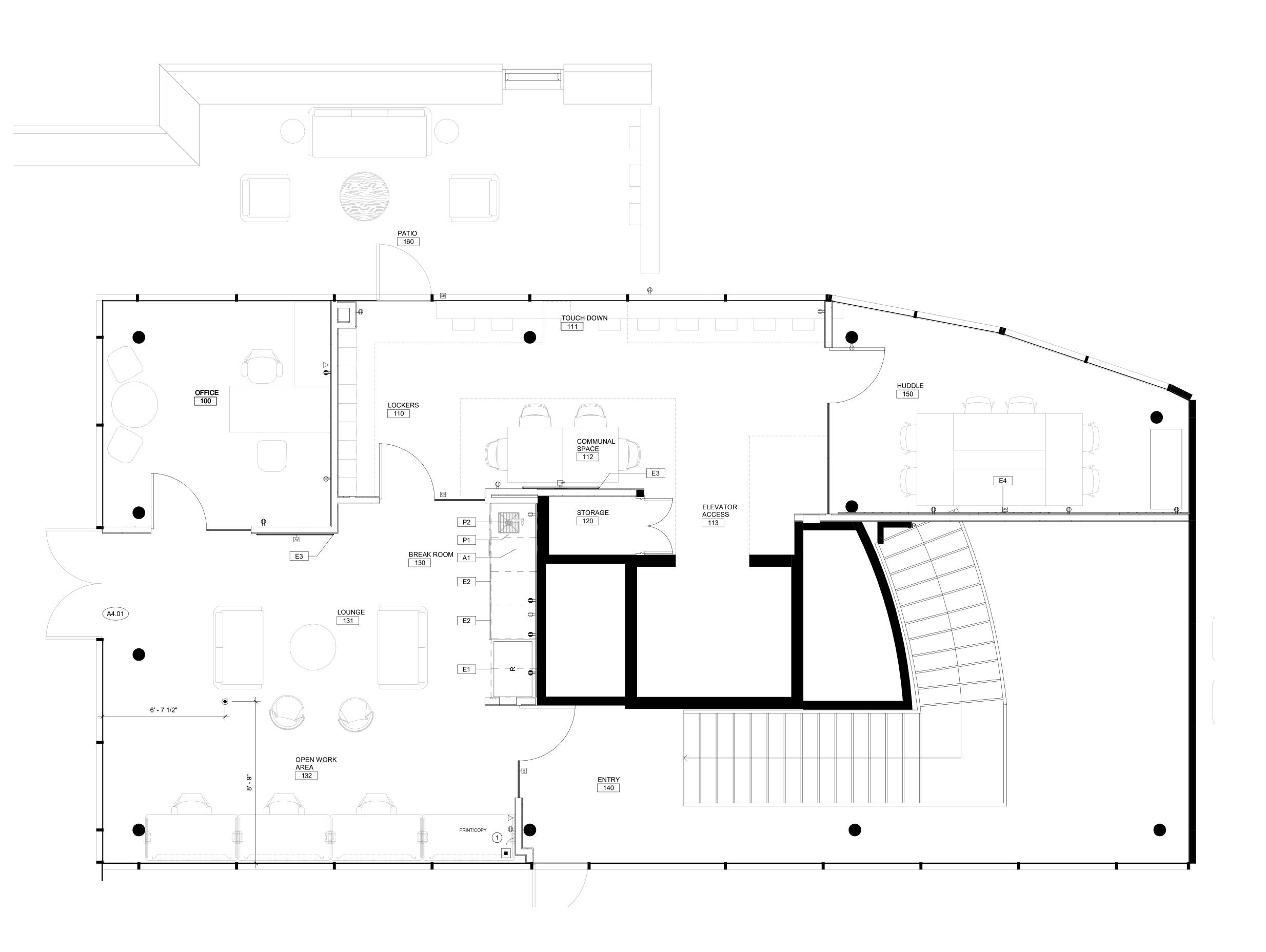




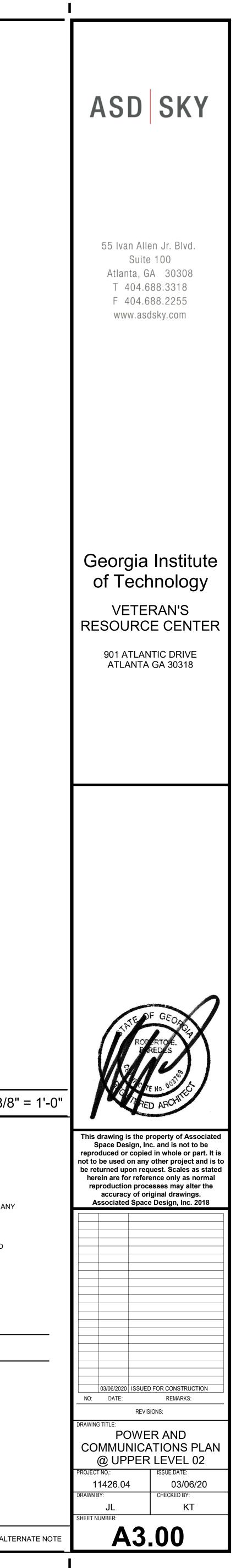


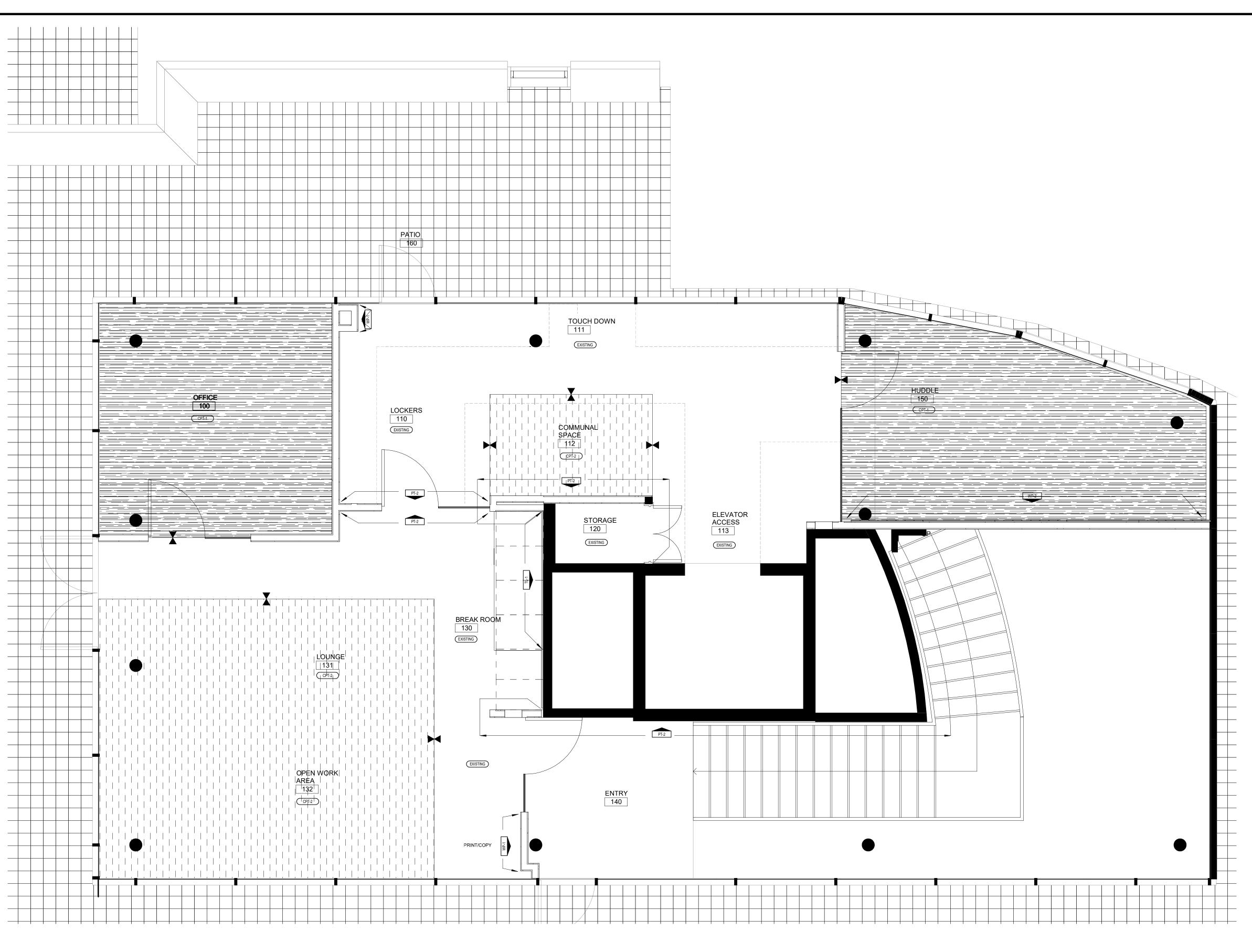
		2 CEILING @ UNDERSIDE OF NEW SLAB EXTENSION 3/2*
1 UPPER LEVEL 02 TYPE SYMBOL DESCRIPTION MANUFACTURER MODEL COMMENTS Count C.1 4" DIRECTINDIRECT LED LAY IN LUMENWERX VIA 15PDI HLO FH CLO LUMENVPRESS QUICK SHIP TEM. SDOK COLOR 5 C.2 4" DIRECTINDIRECT LED LAY IN LUMENWERX VIA 15PDI HLO FH CLO LUMENVPRESS QUICK SHIP TEM. SDOK COLOR 5 C.2 4" DIRECTINDIRECT LED FOCAL POINT FAVDSCR LUMENVPRESS QUICK SHIP TEM SUBCE COLOR 15 C.2 4" DIRECTINDIRECT LED FOCAL POINT FAVDSCR LUMENVPRESS QUICK SHIP TEM SUBCE COLOR 15 DIMMING, WHITE CANDY AND DREVOIDE POWER FOR DURING SHIP TEM SUBCE COLOR 14 FORD IMMING, WHITE FANSH 15 C.3 © BILA SPHERE WITH CHARGHE CANDY AND DRECOLOR 16 ITEM DIRECTINDIRECT LIQUEX SHIP 16 C.4 ILLIGHT RX-24K TO BE CONCEALED UNDER LUPPER CABINETS 2 2 C.5 - 4"LED RECESSED DOWNLICHT PRESCOLITE LTR-4RD WHITE TRIN KIT 4	A OPTIMA 2' X 4' 1" 9/16" TEGULAR ACT; GRID: SUPRAFINE XL 9/16". WHITE. I. ALL ACCESS PINELS SIMULE ELOCATED YARDENTED. B GYP. CEILING HEIGHT TO MATCH EXG. ARCHITECTURE. GC TO VIF. PAINT CEILING WHITE UND I. ALL ACCESS PINELS SIMULE ELOCATED YARDENTED. EX EXISTING OPEN CEILING. PAINT TO REMAIN. REPAIR AND MATCH AS NEEDED. I. ALL ACCESS PINELS SIMULE ELOCATED YARDENTED. EX EXISTING OPEN CEILING. PAINT TO REMAIN. REPAIR AND MATCH AS NEEDED. I. SPRINKLER HEADS ARE AS FOLLOWS CEILING CEILING HEIGHT FROM A.F.F. CEILING TYPE G CEILING TYPE CEILING TYPE 6 CEILING TYPE SCHEDULE 4 Immeted DRYMAL HEADER AT BUILT IN WHERE ANY EXPOSED SOFFIT IS PRESENT. PAINT TO MATCH ADJACENT WALL.	2.0 GENERAL REQUIREMENTS 2.2 COORDINATION ACCESS: 2.0.1 REFER TO PARTITION PLAN FOR TYPICAL GENERAL REQUIREMENTS INCLUDING SUBMITTAL REQUIREMENTS. 2.2 LOORDINATION ACCESS: 2.1 GENERAL CEILING NOTES: 2.1 GENERAL REFLECTED CEILING STANDARDS FOR TYPICAL INFORMATION. 2.1 LINEFER TO GENERAL REFLECTED CEILING STANDARDS FOR TYPICAL INFORMATION. 2.2 LOORDINATION ACCESS 2.1.2 INSPECTIONS AS REQUIRED BY LOCAL AUTHORITIES SHALL BE COMPLETED PRIOR TO CLOSING OF CEILING. SHALL BE COORDINATED WITH OTHER TRADES AND ALIGN WITH ALL LIGHTS, SPRINKLER, HVAC AND OTHER ELEMENTS INCORPORATED IN ITS CONSTRUCTION. SUITABILITY FOR GENERAL MAINTENANCE. 2.1.3 CEILING PLANE SHALL BE LEVEL AND TRUE AND ALIGN WITH ALL LIGHTS, SPRINKLER, HVAC AND OTHER ELEMENTS INCORPORATED IN ITS CONSTRUCTION. SUITABILITY FOR GENERAL MAINTENANCE. 2.1.4 FASCIAS / SOFFITS SHAILL BE LEVEL AND TRUE PARD ELEMENTS INCORPORATED IN ITS CONSTRUCTION. SYSTEMS AND AUXES ETC. REQUIRING ACCESS AND APPROVED BY THE ARCHITECT SO THAT AC OF SURFACE DISTORTION AND DIMENSIONED ACCORDING TO DETAILS SHOWN. SUITABILITY FOR GENERAL MAINTENANCE. 2.1.5 MECHANICAL, HVAC AND DILMENSIONED ACCORDING MAY REQUIRE. SUSTEMENTS AND WHERE RETURN VENTILATION IS REQUIRED AT F HEIGHT PARTITIONS. 2.1.6 DIMENSIONS: A. SCALES AS STATED ARE VALID ON THE ORIGINAL DRAWING ONLY. DO NOT SCALE FROM THESE DRAWINGS. S24 MECHANICAL, AND ELECTRICAL CONTRACTOR SF COORDINATE WORK BETWEEN THE ENGINEERING AN ARCHITECTURAL DRAWINGS.
7 REFLECTED CEILING LEGEND	5 REFLECTED CEILING PLAN SHEET NOTES ① CODED NOTE 3 ALTERNATES	A0.01 ALTERNATE NOTE 2 REFLECTED CEILING PLAN GENERAL NOTES





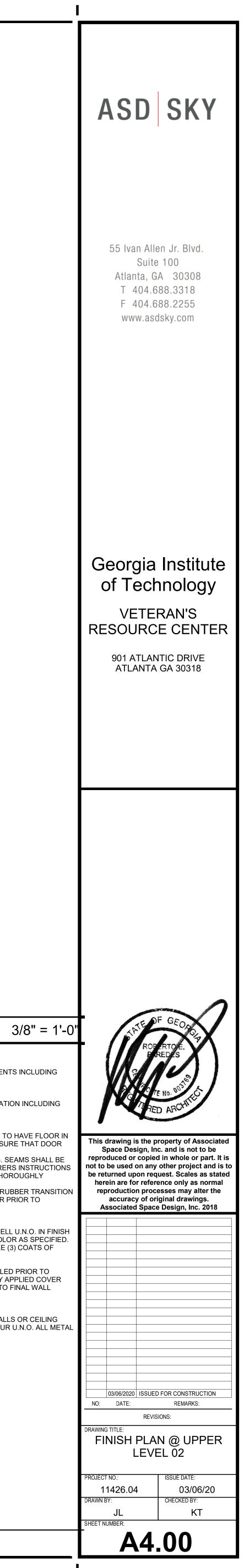
1 UPPER LEVEL 02					3/8"
CR CARD READER. GT STANDARD. Image: Comparison of the power & data Image: Comparison of the power 1: FLOOR CORE POWER ONLY. PROVIDE A QUAD.	 SWITCHES, FIRE DEVICES, ETC. SHALL BE GANGED AND LOCATED PER MOUNTING DIAGRAM SPECIFICATIONS. ALL OUTLETS MOUNTED ABOVE COUNTER SURFACES, ARE TO BE MOUNTED HORIZONTALLY. 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. ALL EXISTING POWER AND DATA TO REMAIN. 	ID Description Manufacturer Model FEC SEMI RECESSED FIRE EXTINGUISHER CABINET SEE SPECS	Size Provided Provided	enant ovided Comments	 4.0 GENERAL REQUIREMENTS 4.0.1 REFER TO PARTITION PLAN FOR TYPICAL GENERAL REQUIREMENTS INCLUDING SUBMITTALREQUIREMENTS. 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
√ DATA	5. PROVIDE BLOCKING IN WALL FOR SCHEDULED WALL MOUNTED TELEVISION MONITORS, TYPICAL	A1 TRASH CAN RUBBERMAID S-13527BL	11"D X 20"H	FINISH: BLACK. PROVIDE TWO IN PULL OUT DRAWER.	WALLS OR CEILINGS.4.1.3REFER TO REFLECTED CEILING PLAN FOR NOTES REGARDING REQUIREMENTS
		E1 REFRIDGERATOR/FRE GE GZS22IEN EZER DS	30"D X Yes 36"W X 70"H	FINISH: BLACK SLATE; ENERGY STAR; LEFT HINGE - CONFIRM WITH ELEVATIONS; COORDINATE TRIM KIT.	 4.1.4 FIELD VERIFICATIONS: G.C. AND SUBCONTRACTORS SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS AND DIMENSIONS BEFORE BEGINNING WORK. SIZES OF CONDUI ADEQUATE FOR CABLE/SERVICE SPECIFIED. 4.1.5 COORDINATION OF ELECTRICAL WORK WITH HVAC, CABINET WORK, CAR ASSURED BY GC.
 ♀ DEDICATED DUPLEX ♥ DUPLEX IG ♥ QUAD 			23.5" X Yes 24"W X 16.5"H	FINISH: STAINLESS STEEL. PROVIDE TRIM KIT.	 4.1.5 COORDINATION OF ELECTRICAL WORK WITH HVAC, CABINET WORK, CAR ASSURED BT 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
Image: Dedicated QUAD Image: QUAD IG	6 GENERAL POWER AND COMMUNICATIONS PLAN TYPICALS	E3 FLATSCREEN TV TBD TBD	55" Yes	TO HAVE INTEGRAL COMPUTER AND SEAMLESS PLUG AND PLAY. CONFIRM WITH OIT.	VENDOR'S DOCUMENTS OR W/ TENANT TO CONFIRM FINAL SCOPE REQUIREMENTS.
WORKSTATION POWER & DATA WALL WHIP	WHIP TO PROVIDE POWER/DATA TO THREE WORKSTATIONS (EACH WITH 1 CPU, TWO MONITORS AND 2 ACCESORY POWER) AND ONE PRINT/COPY STATION (POWER/DATA FOR TWO PRINTERS)	E4 FLATSCREEN TV TBD TBD	70" Yes	TO HAVE INTEGRAL COMPUTER AND SEAMLESS PLUG AND PLAY. CONFIRM WITH OIT.	2 POWER AND COMMUNICATIONS PLAN GENERAL NOTES:
		TYPE MARK DESCRIPTION	MANUFACTURER		A4.01 PROVIDE CARD READER ON EXISTING DOOR
		P1 15inch x 15inch under-mount bar sink with rack	sink 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	
7 POWER AND COMMUNICATIONS LEGEND	5 POWER AND COMMUNICATIONS PLAN SHEET CODED NOTES (1) CODED NOTE	4 EQUIPMENT LIST	C.1 CONTRACTOR PROVIDED	T.1 TENANT PROVIDED P.1 PLUMBING EQUIPMENT	3 ALTERNATES: (A4.01) ALTER

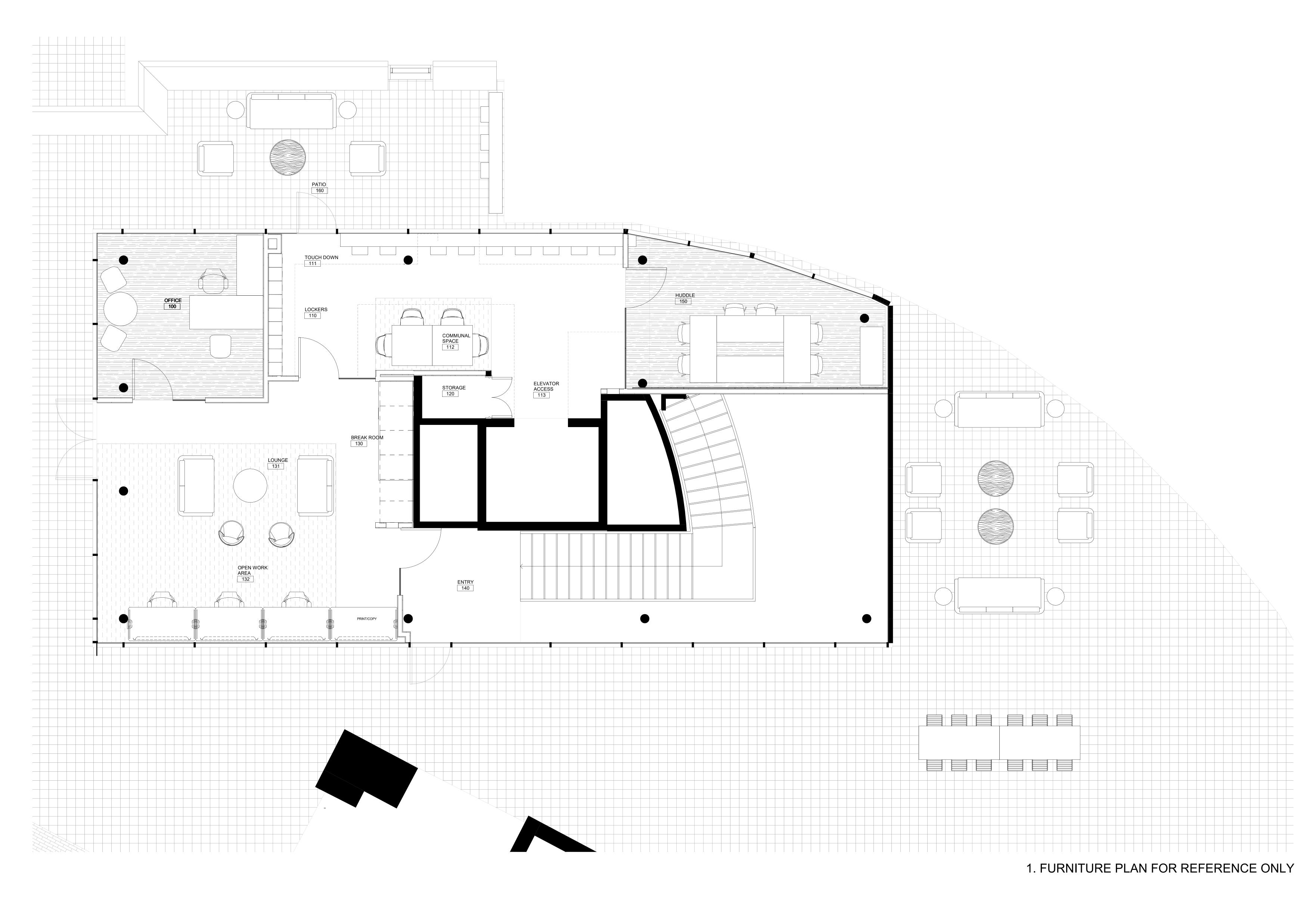


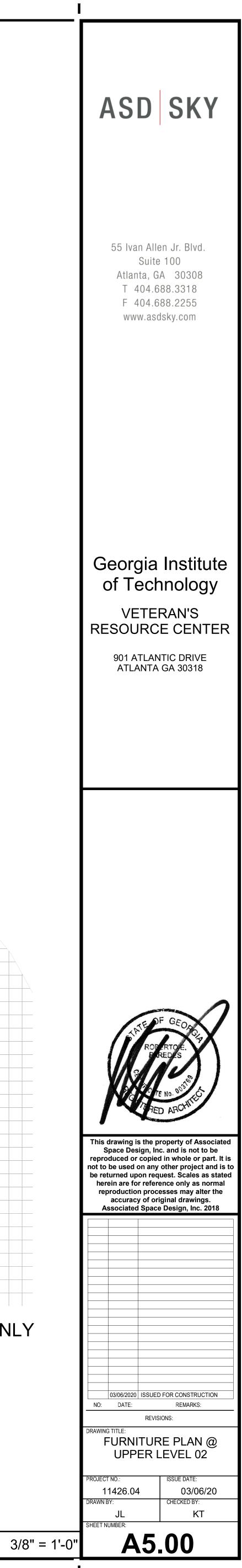


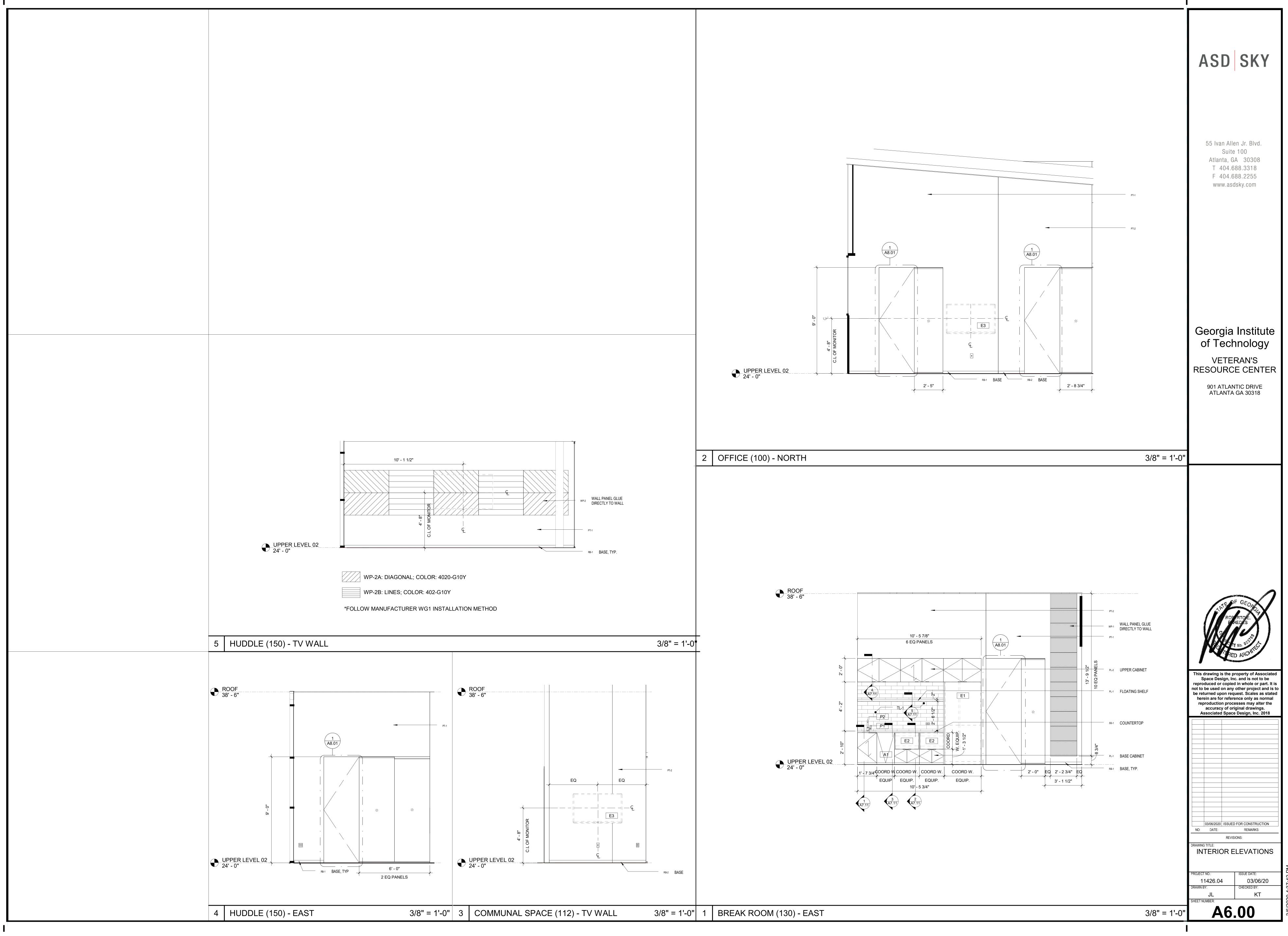
1	FINISH PL	AN @ UPPER I	_EVEL 02	
KEY	ITEM	MANUFACTURER	DESCRIPTION	REMARKS
CPT-1	CARPET	MASLAND	T7989 TUMBLE/89906 ROLL; 12 X 36; INSTALL:ASHLAR	TRACY MANCINELLI; TRACY.MANCINELLI@ATLAS-MASLAND.(
CPT-2	CARPET	FLOR	HAYWOOD/FLINT 21-1500-02; 24 X 24; PROVIDE RUBBER TRANSITION EDGE WHERE FLOATING ON CONCRETE	ALISON.MILLSAPS; ALISON.MILSAPS-MORRIS@INTERFACE.
PL-1	PLASTIC LAMINATE	WILSONART	FISHER OAK 17002K-57	DAVID MAY; MAYD@WILSONART.COM
PL-2	PLASTIC LAMINATE	WILSONART	TRACELESS MIDNIGHT VELVET 15506-31	DAVID MAY; MAYD@WILSONART.COM
PT-1	PAINT	BENJAMIN MOORE	CHANTILLY LACE OC-65	SHAWNE.TOWNSLEY@BENJAMINMOORI
PT-2	PAINT	BENJAMIN MOORE	RACCOON FUR 2126-20	SHAWNE.TOWNSLEY@BENJAMINMOORI
RB-1	RUBBER BASE	JOHNSONITE	2 1/2" STRAIGHT RUBBER BASE; COLOR: ICCLE 08; USE WITH PT-1	NICOLETTE PIZZOFERRATO; NICOLETTE.PIZZOFERRATO@TARKETT.(
RB-2	RUBBER BASE	JOHNSONITE	2 1/2" STRAIGHT RUBBER BASE; COLOR: BURTN UMBER B 63; USE WITH PT-2	NICOLETTE PIZZOFERRATO; NICOLETTE.PIZZOFERRATO@TARKETT.(
SS-1	SOLID SURFACE	SILESTONE	COSENTINO CHARCOAL SOAPSTONE	MELISSA KOSTENKO; MELISSAK@COSENTINO.COM
TL-1	WALL TILE	TILE BAR	ENIGMA LIGHT GRAY 2X8; GROUT: TBD	LIZ ALLEN; LALLEN@TILEBAR.COM
WP-1	WALL PANEL	ARCHITECTURAL SYSTEMS	COMPOSITION CORK STRIPS	KATIE MCGOWAN; KMCGOWAN@SPARTANSURFACES.COM
WP-2	WALL PANEL	BAUX	RECTANGUALR ACOUSTIC PANEL; PATTERN: DIAGONAL(WP-2A) COLOR: 402-G10Y, LINES (WP-2B) COLOR: 402-G10Y; REFER TO A6.00/5 FOR INSTALLATION	ELAYNE DELEO; ELAYNE@MA-DESIGNISHUMAN.COM

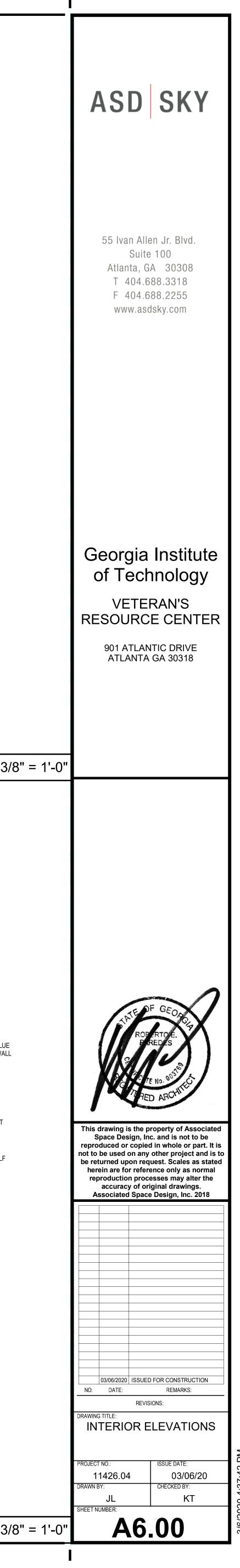
Scheme of the other othe						
3.2.2 VCT INSTALLATION SHALL BE PER INSTRUCTIONS ON DRAWING. SEA 1.COM 3.2.2 VCT INSTALLATION SHALL BE PER INSTRUCTIONS ON DRAWING. SEA TIGHT AND INVISIBLE. FLOOR SHALL BE CLEANED PER MANUFACTURERS AMACHINE BUFFED (AS APPROPRIATE TO TILE MANUFACTURER) 3.2.3 CONTRACTOR SHALL PROVIDE VINYL TRANSITION STRIPS AND RUBE STINISTALLATION. 3.3.0 WALL S:	D.COM E.COM DRE.COM DRE.COM T.COM T.COM	2.	WALLS PT-1 BASE RB-1 CEILING CEILING WHITE TYPICAL OFFICE FINISHES ARE AS NOTED:		STANDARD FINISH TAG. REFER TO FINISH SCHEDULE. MULTIPLE FINISHES OCCUR AT SOME LOCATION. SEE REFERRING PLAN OR ELEVATION FOR DETAILS. WAL ACCENT WALL FINISH. FLOOR ACCENT FLOOR MATERIAL. BASE MATERIAL.	 3.0.1 REFER TO PARTITION PLAN FOR TYPICAL GENERAL REQUIREMENTS SUBMITTAL REQUIREMENTS. 3.0 GENERAL FINISH NOTES: 3.1.0 REFER TO GENERAL FINISH STANDARDS FOR TYPICAL INFORMATION SUBMITTAL REQUIREMENTS. 3.2.0 FLOOR: 3.2.1 CONTRACTOR IS RESPONSIBLE FOR ALL FLASH PATCHING AND TO H CONDITION TO RECEIVE MATERIALS PER PLAN. CONTRACTOR TO INSURE CLEARANCES PER DETAILS ARE MET. 3.2.2 VCT INSTALLATION SHALL BE PER INSTRUCTIONS ON DRAWING. SEA TIGHT AND INVISIBLE. FLOOR SHALL BE CLEANED PER MANUFACTURERS AND RECEIVE TWO (2) COATS OF NON-SLIP WAX WHICH SHALL BE THORC MACHINE BUFFED (AS APPROPRIATE TO TILE MANUFACTURER) 3.2.3 CONTRACTOR SHALL PROVIDE VINYL TRANSITION STRIPS AND RUBE STRIPS AT ALL LOCATIONS REQUIRED. PROVIDE SAMPLE FOR COLOR PRI INSTALLATION. 3.3.0 WALLS: 3.3.1 PAINT FOR WALL FINISHES SHALL BE THREE (3) COATS (EGGSHELL U PLAN STANDARDS); ONE (1) PRIMER PLUS TWO (2) FINISH COATS, COLOR METAL ELEMENTS AND DOOR / WINDOW FRAMES SHALL HAVE THREE (3) SEMI-GLOSS LATEX ENAMEL FINISH. 3.3.2 G.C. SHALL ASSURE THAT NO ELECTRICAL RECEPTACLE OR TELECOMMUNICATIONS OUTLET COVER PLATES HAVE BEEN INSTALLED F COMPLETION OF APPLICATION OF ANY WALL FINISH MATERIALS. ANY APP PLATES OR SURFACE HARDWARE ETC. SHALL BE REMOVED PRIOR TO FIN FINISH APPLICATION. 3.4.0 MISCELLANEOUS: 3.4.1 ALL MISCELLANEOUS GRILLS, PLATES, ETC. OCCURRING ON WALLS SHALL BE PAINTED TO MATCH THE SURFACES ON WHICH THEY OCCUR U
5 FINISH PLAN CODED NOTES: ① CODED NOTE 3 FINISH SYMBOL LEGEND: 2 FINISH PLAN GENERAL NOTES:		5	FINISH PLAN CODED NOTES: (1) CODED NOTE	3	FINISH SYMBOL LEGEND:	2 FINISH PLAN GENERAL NOTES:



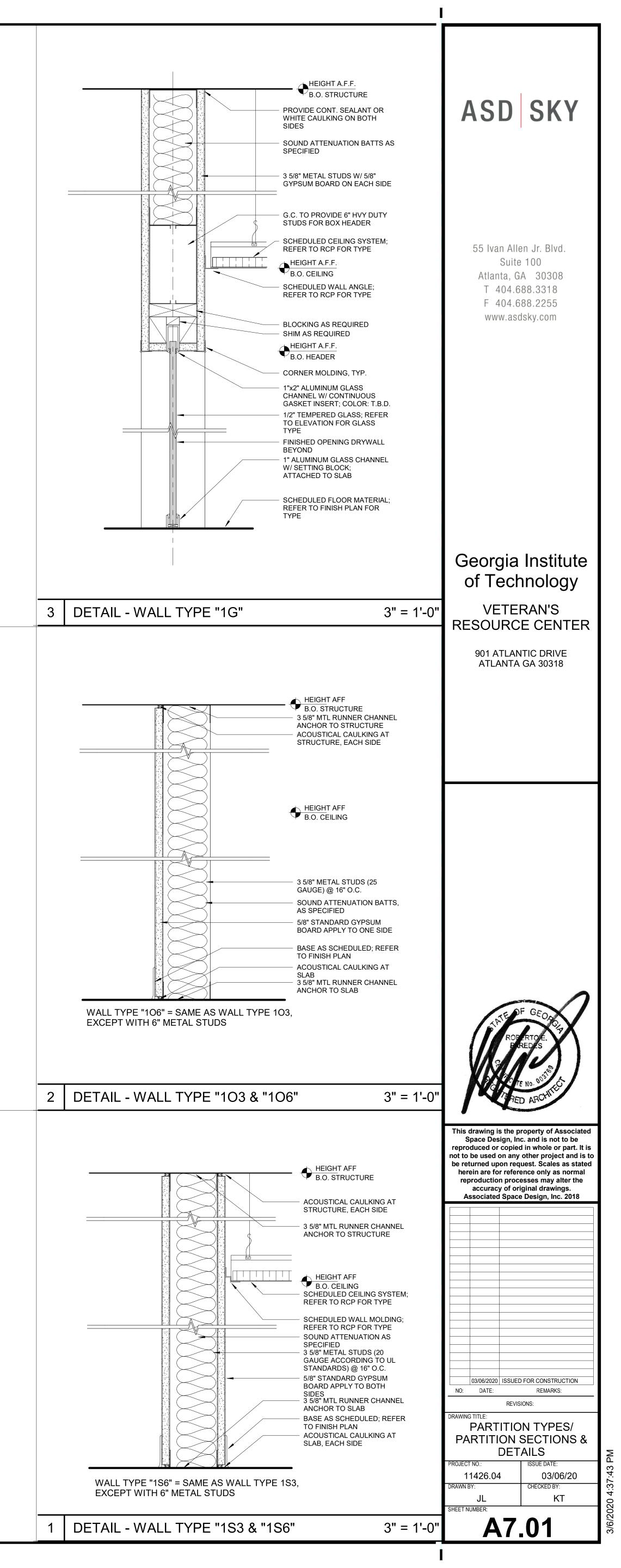


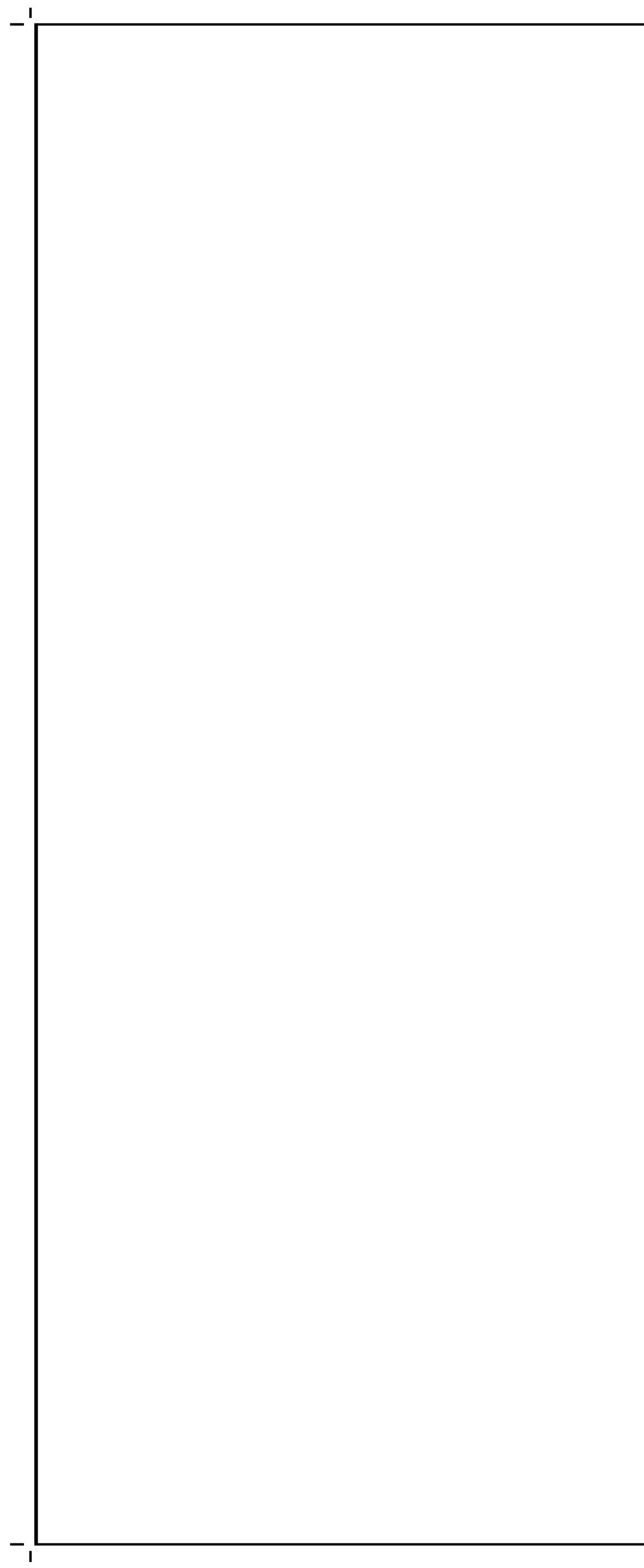


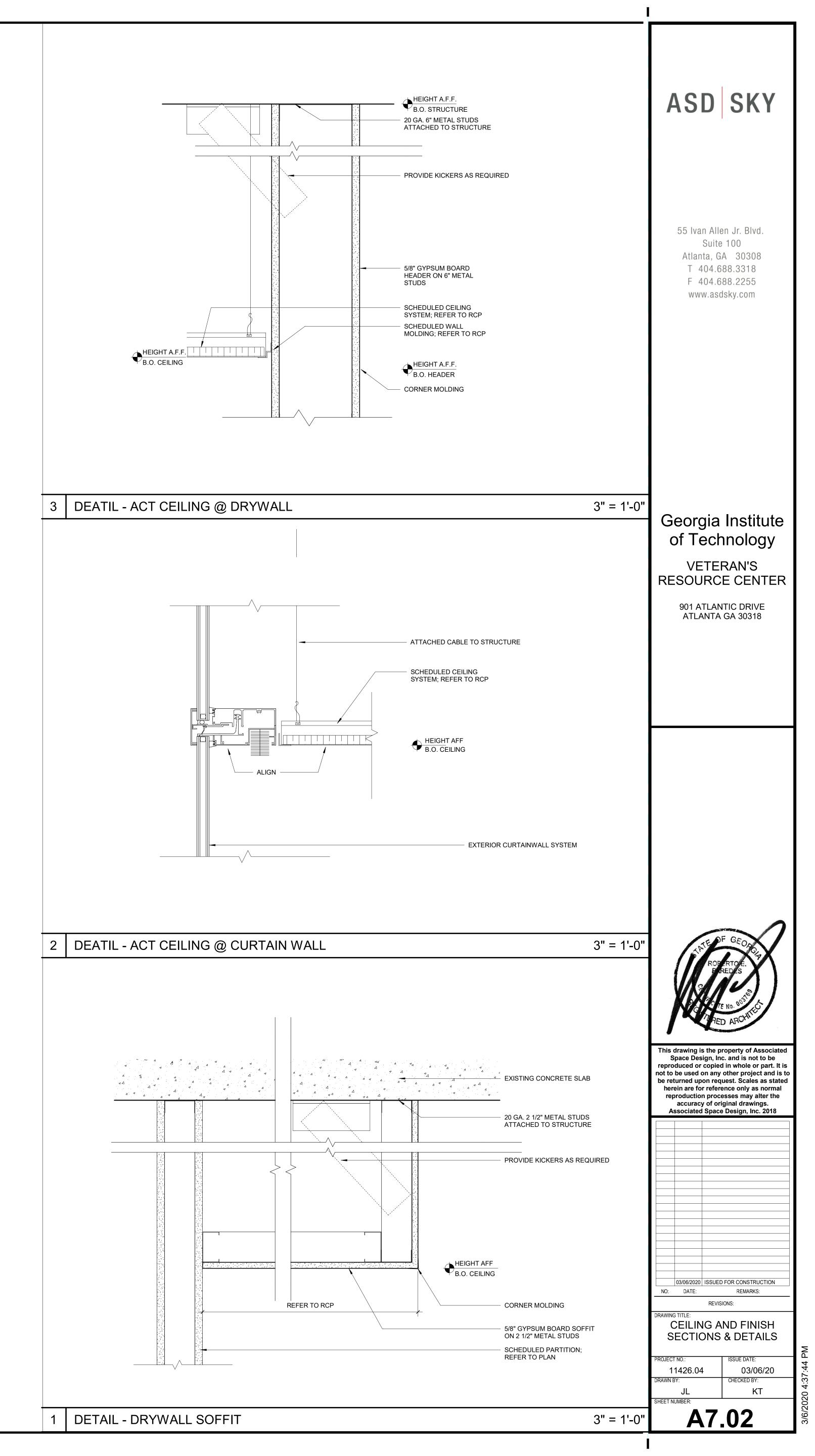


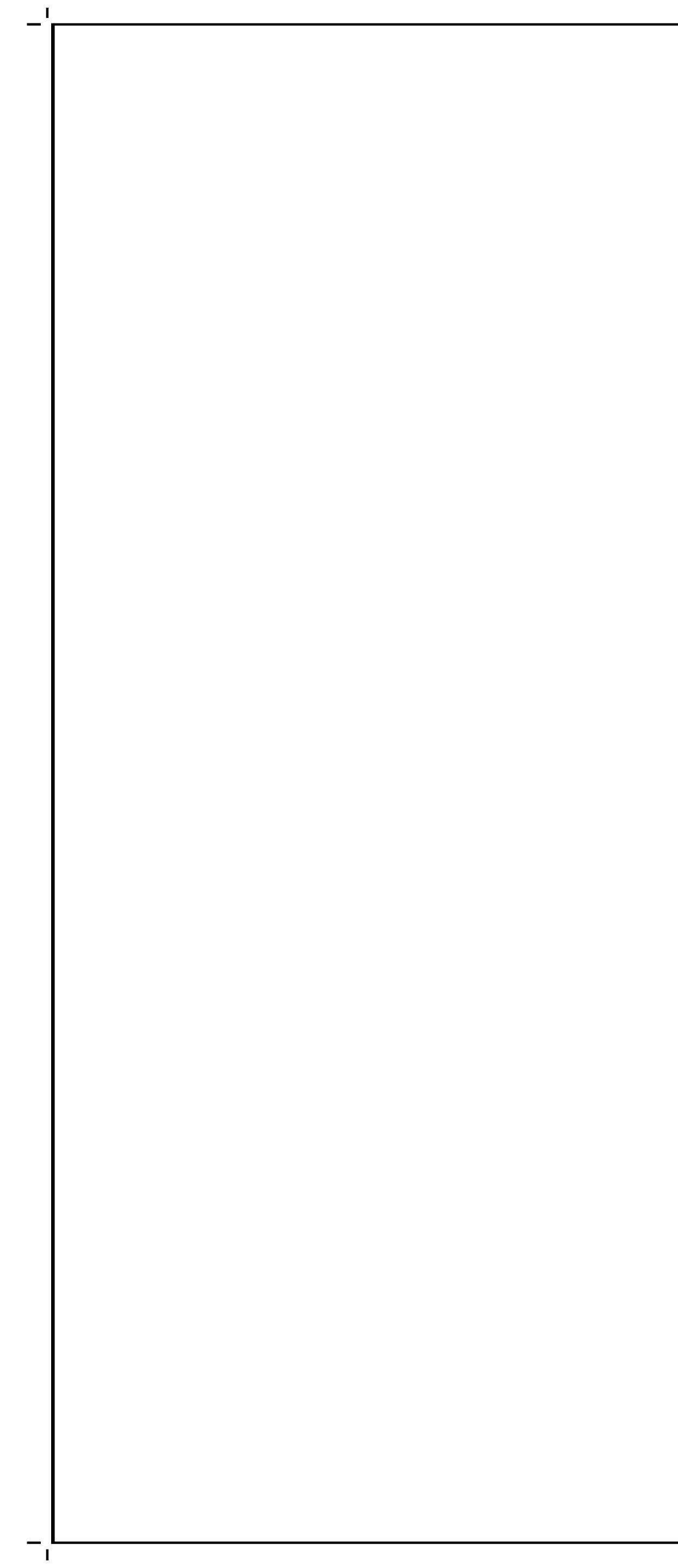


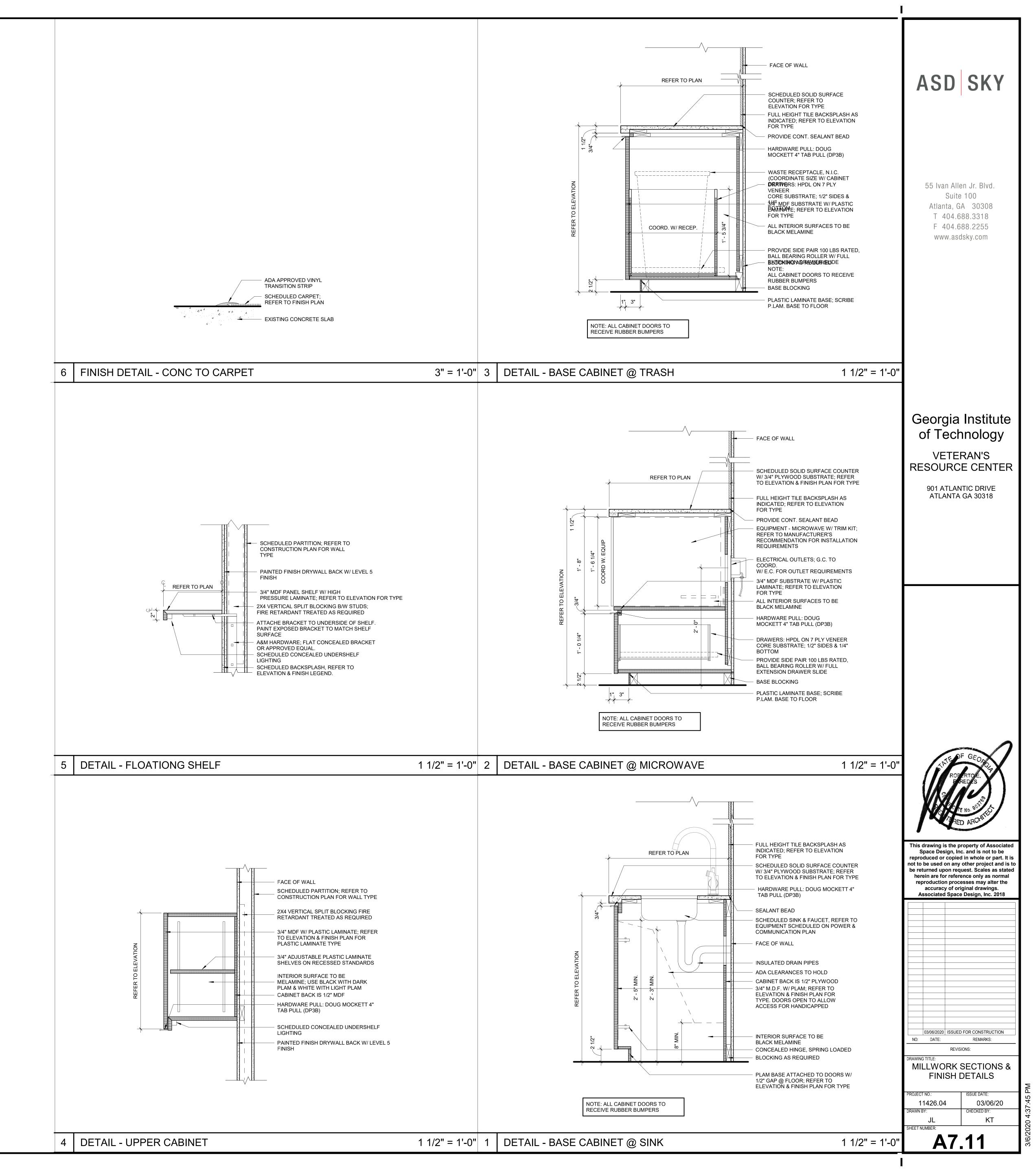




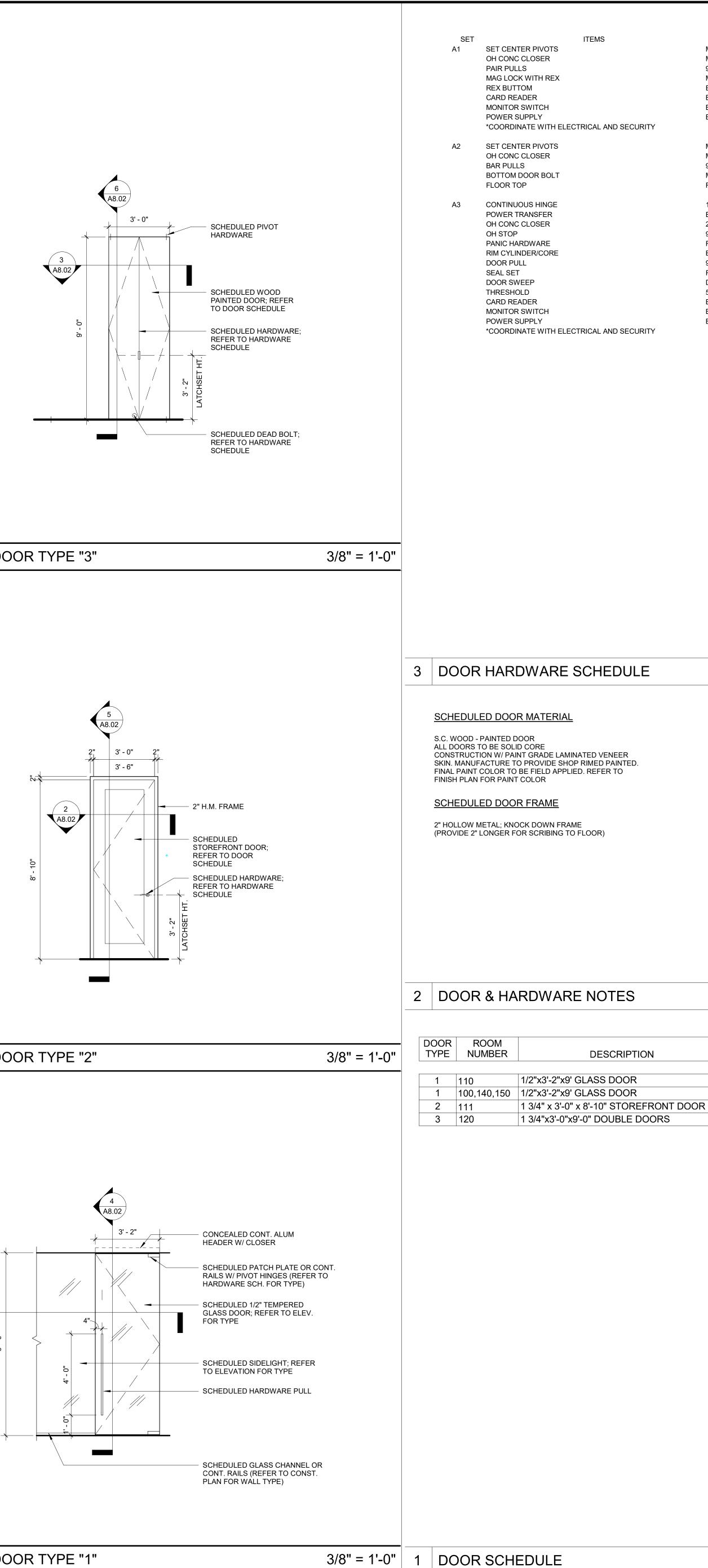








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MANUFACTURER OR BUILDING STANDARD

MFG STANDARD MFG STANDARD 9266 X BACK TO BACK X 48" (12" ABOVE FLOOR) 630 IVE M680EBDX X 628 ASSA EEB-3 ASSA BY SECURTIY BY SECURITY

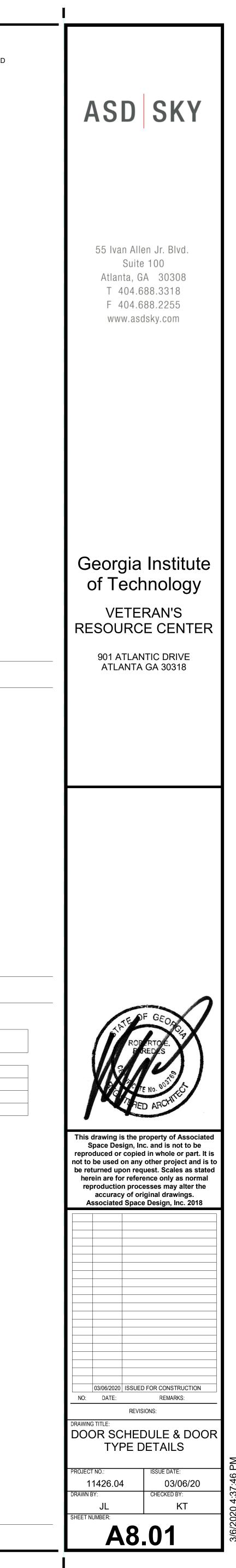
MFG STANDARD MFG STANDARD 9266 X BACK TO BACK X 48" (12" ABOVE FLOOR) 630 IVE MGF STANDARD FS439 626 IVE

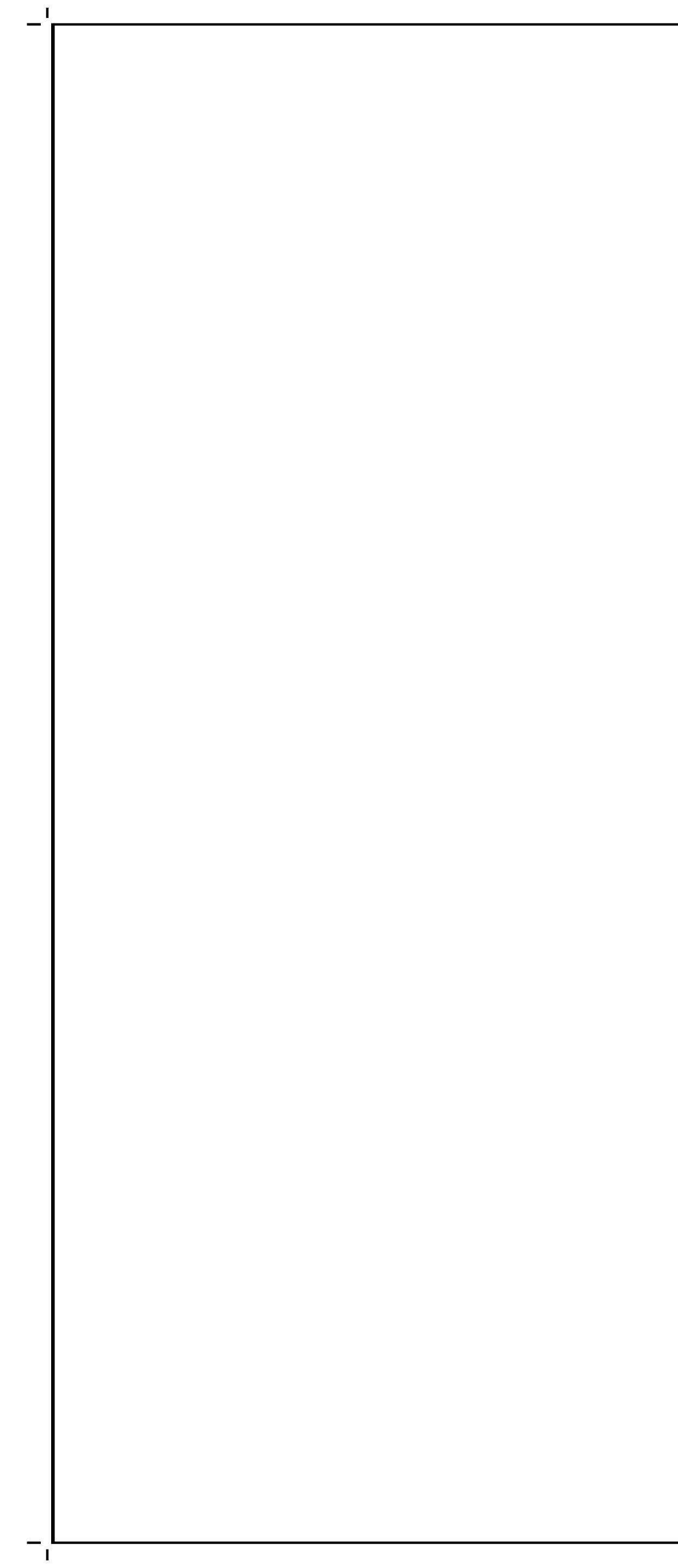
BY SECURITY

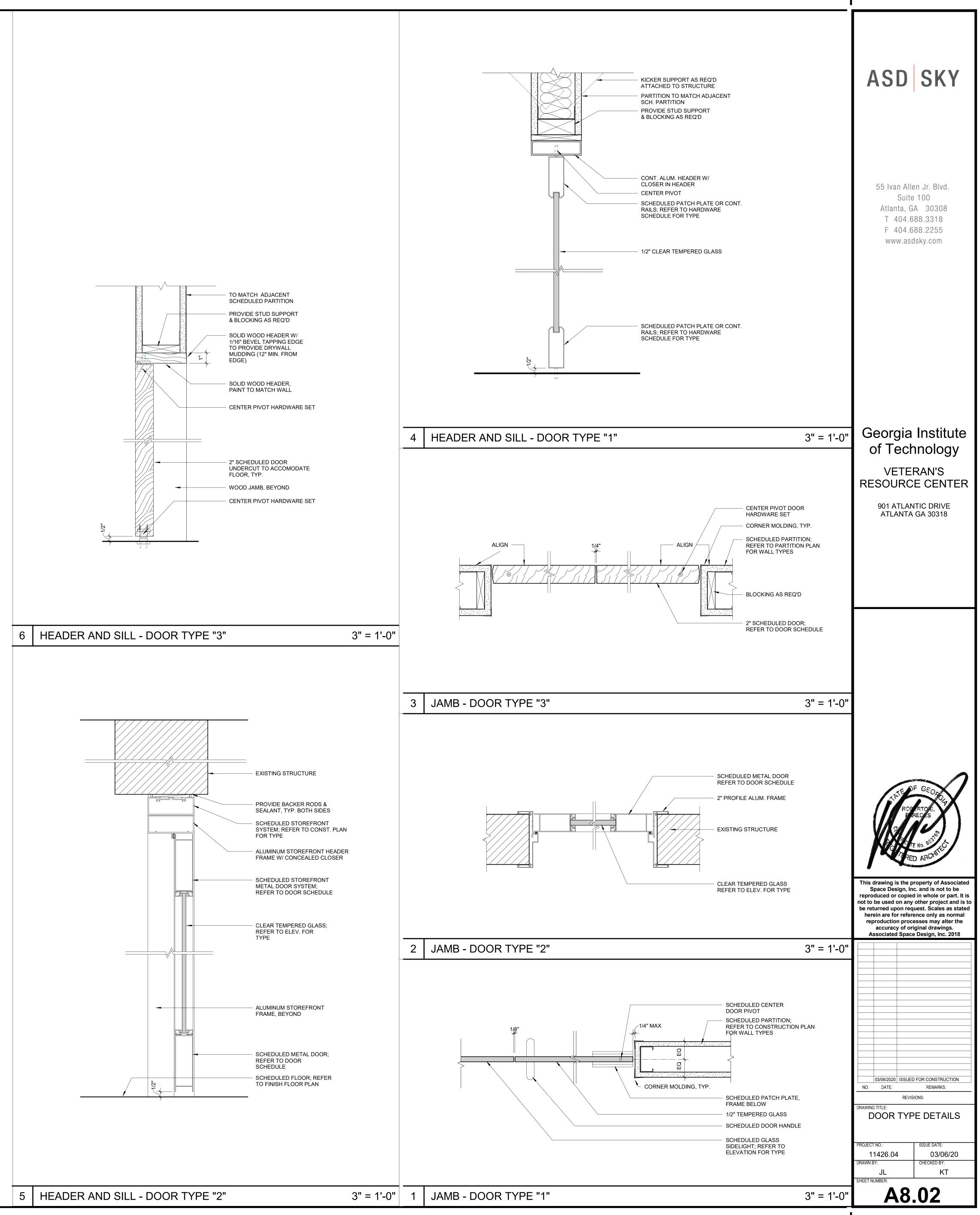
112XY EPT 628 IVE EPT10 689 VON 2030 BUMP WMS X ST2211 689 LCN 90S 630 GLY RX-QEL-98-NL-OP-SNB 626 VON BY OWNER 626 BES 9266 X 48" (BOTTOM 12" ABOVE FLOOR) 630 IVE FRAME MFG STANDARD DOOR MFG STANDARD 545A-223 A ZER BY SECURITY BY SECURITY BY SECURITY SET B7 HINGES (8) FLUSH BOLTS (2) LOCKSET (1) CYLINDER CORE (1) OH STOP/HOLDERS (2) SLIENCERS (2) ITEMS

MANUFACTURER OR BUILDING STANDARD 5BB1 652 IVE FB458 1-12 X 1-24 X DPS 626 IVE 72-8204 X LNMD 626 SAR BY OWNER 626 BES GJ90H 630 GJ SR64 GRY IVE

FIRE FRAME DOOR MATERIAL DOOR FINISH MATERIAL FRAME FINISH HDWE SET COMMENTS RATING NR GLASS CLEAR GLASS A1 --GLASS NR A2 CLEAR GLASS NR TEMP GLASS/ALUM. MATCH EXISTING A3 MATCH EXISTING MATCH EXISTING B7 PAINTED IN PT-2 NR S.C WOOD PAINTED H.M. FRAME SEMI-GLOSS PAINTED







HVAC SPECIFICATIONS

1.01 GENERAL

- A. DRAWINGS ARE DIAGRAMATIC AND, UNLESS EXPLICITY DIMENSIONED, INDICATE APPROXIMATE LOCATIONS OF APPARATUS, EQUIPMENT, DUCTWORK, AND PIPING. CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NOT SHOWN ON THE DRAWINGS BUT ARE NECESSARY IN ORDER TO ACCOMMODATE BUILDING CONDITIONS AND COORDINATION WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL PLAN THE ROUTING AND OFFSETS DURING THE PREPARATION OF COORDINATION DRAWINGS AND PRIOR TO INITIAL INSTALLATION, WITHOUT ADDITIONAL COST TO THE OWNER.
- B. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS TO COORDINATE LOCATIONS OF DIFFUSERS AND GRILLES WITH LIGHTING AND SPRINKLER HEAD LOCATIONS.
- C. SUBMITTALS SHALL INCLUDE DIFFUSERS, GRILLES, FLEXIBLE DUCTWORK, DUCT INSULATION, AND SHEET METAL SHOP DRAWINGS INCLUDING AND INDICATING COORDINATION OTHER TRADES.

1.02 DUCTWORK

- A. NEW LOW PRESSURE DUCTWORK SHALL BE G90 GALVANIZED STEEL. CONSTRUCT AND INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, MAXIMUM HANGER SPACING
- B. HANGERS SHALL BE 8' ON CENTER AND SHALL MATCH EXISITING.
- C. PROVIDE ROUND SHEETMETAL DUCT OR RUNOUTS FROM BRANCH DUCTS TO DIFFUSERS. D. INSULATE CONCEALED LOW PRESSURE SUPPLY DUCTWORK WITH 1.5" THICK, FLEXIBLE,
- FIBERGLASS INSULATION WITH FOIL-SCRIM-KRAFT FACING AND MAXIMUM K-VALUE OF 0.28 AT 75F. OVERLAP EDGES 3" AND SECURE 12" ON CENTER WITH WIRE. SEAL ALL BREAKS AND PUNCTURES WITH FOIL-SCRIM-KRAFT TAPE AND ADHESIVE.
- E. FLEXIBLE DUCT SHALL BE CLASS 1 OR CLASS 0 TYPE, BEAR THE UL LISTING MARK, AND BE RETAINED BY 16 SWG MINIMUM STEEL WIRE AROUND THE RADIATION DAMPER FRAME. FLEXIBLE DUCT SHALL BE INSULATED AND SHALL BE INSTALLED IN A FULLY EXTENDED CONDITION, FREE OF SAGS AND KINKS. PROVIDE MAXIMUM LENGTH OF FIVE FEET OF FLEXIBLE DUCT AT EACH DIFFUSER.
- F. ROUND RIGID SHEETMETAL DUCT SHALL BE USED BETWEEN SPIN-IN TAKE-OFFS AND FLEXIBLE DUCT. SPIN-INS WITH MANUAL DAMPER, ROUND DUCT, AND FLEXIBLE DUCT SHALL BE SAME SIZE AS DIFFUSER NECK SIZE.
- G. FASTEN FLEXIBLE DUCTWORK TO ROUND DUCT AND SPIN-INS WITH DRAW BANDS AND DUCT TAPE. DRAW BANDS SHALL BE INSTALLED TIGHT WITH LEVER OPERATED TOOL, NOT BY HAND.
- H. EXPOSED ROUND DUCTWORK SHALL BE G90 GALVANIZED STEEL AND SHALL MATCH EXISTING ROU IN APPEARANCE. SURFACE SHALL BE PAINT READY. ARCHITECTURAL SHALL PROVIDE PAINT COLO
- I. TYPE S-SR SIDEWALL REGISTER: DOUBLE-DEFLECTION TYPE WITH VERTICAL FRONT BLADES, HORIZONTAL REAR BLADES, AND OPPOSED-BLADE VOLUME DAMPER.
- I. TYPE S-PF SQUARE PLATE FACE DIFFUSER TYPE WITH SINGLE AIR DIFFUSION PANEL DIFFUSERS S HAVE AN 18"X18" STEEL FACE PANEL MOUNTED ON AN AERODYNAMICALLY SHAPED, ONE-PIECE, SE 24"X24" BACKPAN. EXPOSED SURFACES OF FACE PANELS SHALL BE SMOOTH, FLAT, AND FREE OF VISIBLE FASTENERS.
- J. TYPE S-LD LINEAR DIFFUSERS: EXTRUDED ALUMINUM TYPE, WITH TWO 1" WIDE SLOTS WITH INTEGRAL VOLUME CONTROL AND PATTERN ADJUSTMENT AND CONCEALED MOUNTING FRAME. FINISH IN BAKED ENAMEL WITH WHITE FACE, AND INTERIOR COMPONENTS VISIBLE AFTER INSTALLATION FINISHED FLAT BLACK. DIFFUSER SIZE AND INSTALLED APPEARANCE SHALL MATCH I
- K. TEMPERATURE SENSORS SHALL INCLUDE THE FOLLOWING: 1. CONSTRUCTION FOR EITHER SURFACE OR WALL BOX MOUNTING.
- 2. ACCURACY OF +/- 0.1°F. 3. SETPOINT WARMER/COOLER ADJUSTMENT DIAL SHALL PROVIDE FOR A +/- 2.5°F (ADJUSTABLE).
- 4. RANGE FROM THE INITIAL SPACE SETPOINT (73.5°F ADJUSTABLE). 5. BACKLIT LIQUID CRYSTAL DISPLAY (LCD) TO INDICATE THE TEMPERATURE, HUMIDITY, AND
- SETPOINT. 6. AN LED TO INDICATE THE STATUS OF THE OVERRIDE FEATURE.

7. A BUTTON TO INITIATE A TIMED OVERRIDE COMMAND.

. ACCESS PANELS: UNLESS PROVIDED OTHERWISE, ACCESS PANELS SHALL BE HINGED, EXCEPT REM NECESSITATED BY SPACE CONDITIONS, DOUBLE-WALL INSULATED TYPE, MANUFACTURED IN ACCORDANCEWITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 2005. ACCESS PANELS SHALL MATCH THE FIRE RATING OF THE CEILING ASSEMBLY. MANUFACTURER -KRUEGER, NAILOR, OR RUSKIN.

1.03 TEST, ADJUST AND BALANCE

- A. WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR THE ASSOCIATED AIR BALANCE COUNCIL (AABC) IN TESTING AND BALANCING FOR THIS TYPE OF PROJECT.
- B. TEST, ADJUST, AND BALANCE AIR SYSTEMS TO ACHIEVE OPERATION AND DESIGN AIR QUANTITY, TEMPERATURE DIFFERENTIAL, AND PRESSURE DROP THROUGH DUCTWORK, EQUIPMENT, AND COMPONENTS.
- C. ADJUST PATTERN ADJUSTMENT DEVICES IN DIFFUSERS FOR HORIZONTAL DISCHARGE.

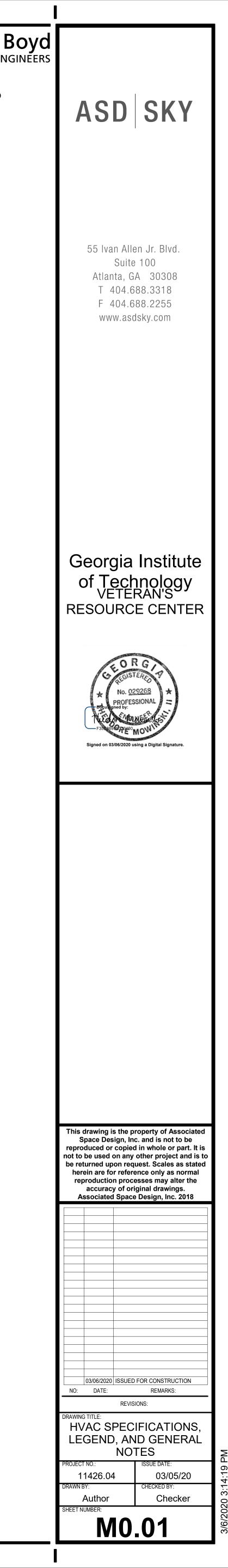
1.04 QUALITY ASSURANCE:

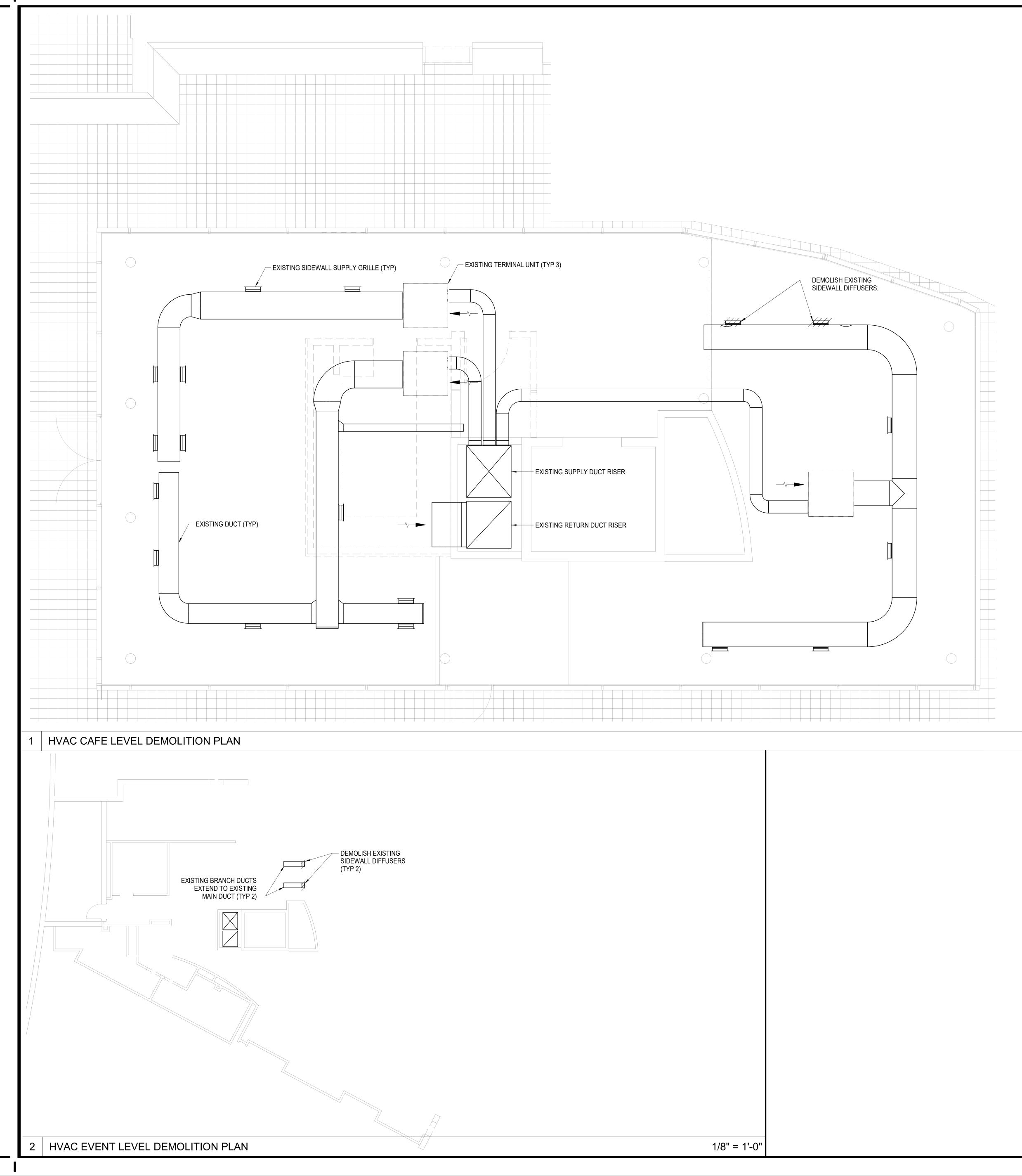
- A. CONFORM TO THE FOLLOWING:
- 1. INTERNATIONAL ENERGY CONSERVATION CODE-2009 WITH GEORGIA STATE AMENDMENTS-2012. 2. INTERNATIONAL MECHANICAL CODE-2012 WITH GEORGIA STATE AMENDMENTS-2015.

		HVAC LEGEND
		DUCTWORK AND AIR DISTRIBUTION
	20X20	DUCT (FIRST DIMENSION IS SIDE SHOWN IN INCHES)
		SUPPLY AIR DUCT SECTION
		RETURN OR OUTSIDE AIR DUCT SECTION
	Y I I I	TRANSITION
		PRESS-ON COLLAR FITTING WITH ROUND FLEXIBLE DUCT
	YI IX	PRESS-ON COLLAR FITTING WITH ROUND RIGID DUCT
		90° BRANCH TAKEOFF
	12X12 S-	DUCT TO BE DEMOLISHED
		SIDEWALL SUPPLY GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
	12X12 R- 100	SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
	<u>18X18 R-</u> 600	CEILING RETURN OR EXHAUST GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
	<u>12"Ø S-</u> 600 ℓ+	FLEXIBLE DUCT AND CEILING SUPPLY DIFFUSER WITH ROUND NECK SIZE, TYPE, AND CFM
	A-B-C S- 330 8	FLEXIBLE DUCT AND LINEAR DIFFUSER WITH LENGTH, TYPE, AND CFM (A-TOTAL LENGTH; B-NUMBER OF ACTIVE SECTIONS; C-LENGTH OF EACH ACTIVE SECTION)
DUND DUCT LOR.		24" x 24" CEILING RETURN GRILLE (R-EG UNLESS NOTED OTHERWISE)
	-+++++	FLEXIBLE DUCT
S SHALL SEAMLESS	Ø	ROUND OR FLAT OVAL DUCTWORK
		CONTROLS AND SENSORS
	Τ	TEMPERATURE SENSOR
H EXISTING.		ABBREVIATIONS
	AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR
	AP	ACCESS PANEL
	ARCH	ARCHITECT/ARCHITECTURAL
	BOD	BOTTOM OF DUCT
EMOVABLE WHERE	CFM	CUBIC FEET PER MINUTE
05. - AIR BALANCE,	CTE	CONNECT TO EXISTING
	DWG	DRAWING
ING BUREAU (NEBB), OR THE		

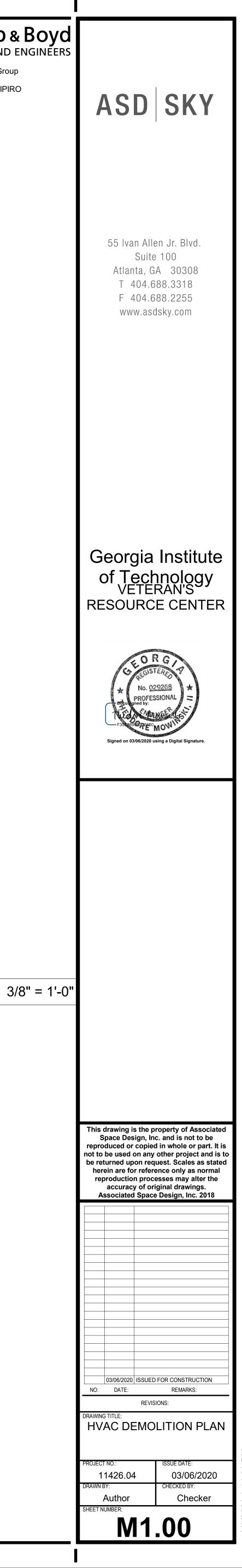
HVAC GENERAL NOTES

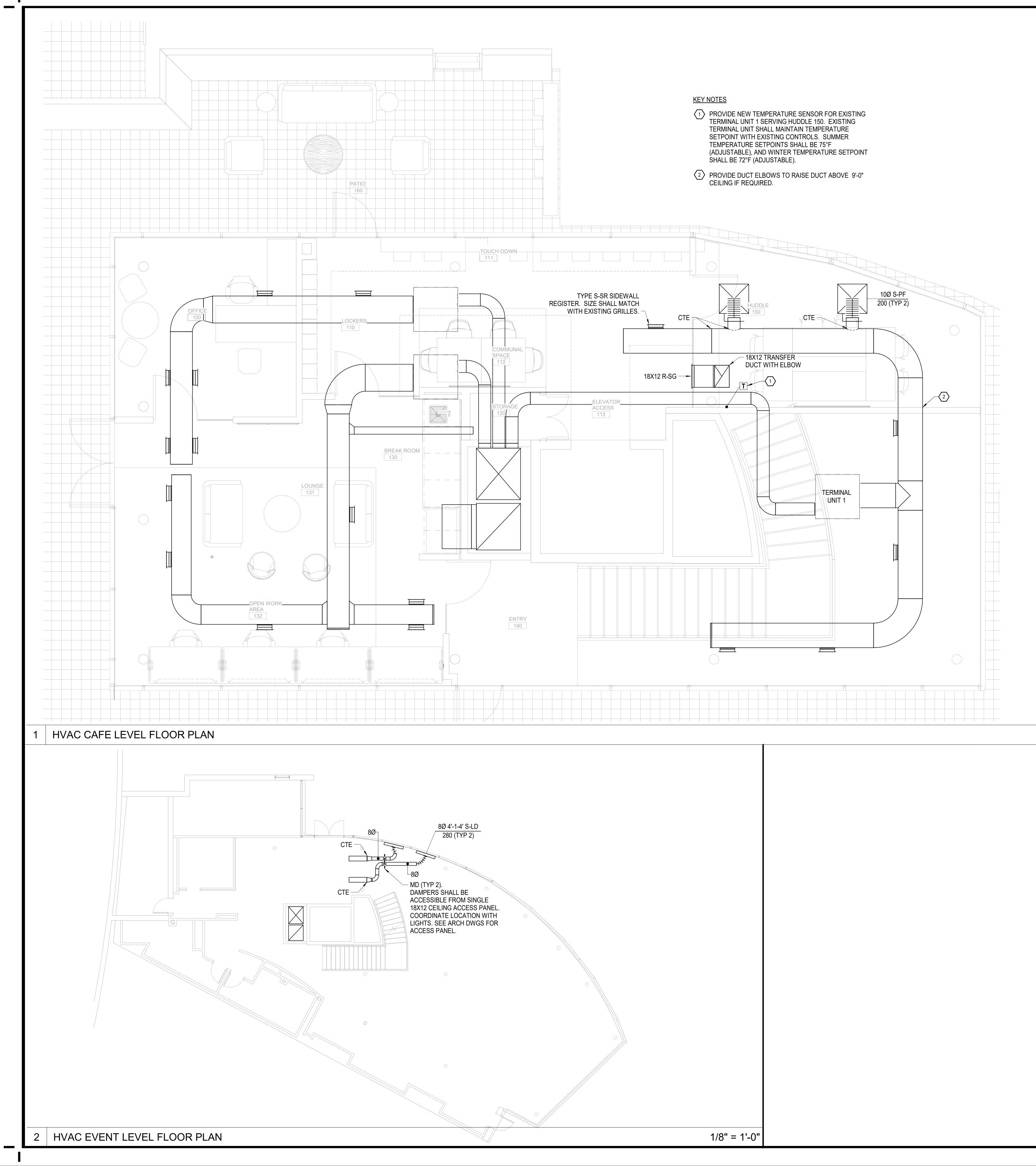
- 1. COORDINATE CEILING AND WALL ACCESS PANEL LOCATIONS FOR EQUIPMENT AND DEVICES THAT WILL REQUIRE ACCESS ABOVE SHEETROCK CEILINGS.
- 2. LOCATE SIDEWALL GRILLES AND RGISTERS MINIMUM 7'- 0" AFF UNLESS NOTED ON DRAWINGS. LOCATE GRILLES AND REGISTERS SERVING SAME ROOM AT SAME HEIGHT.
- 3. INSTALLED APPEARANCE OF EXPOSED DUCTWORK, DIFFUSERS, AND GRILLES SHALL MATCH EXISTING.



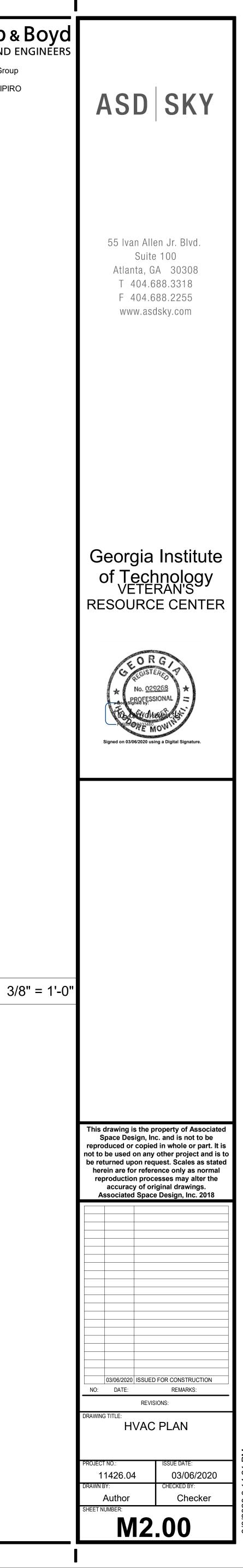


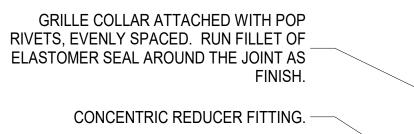
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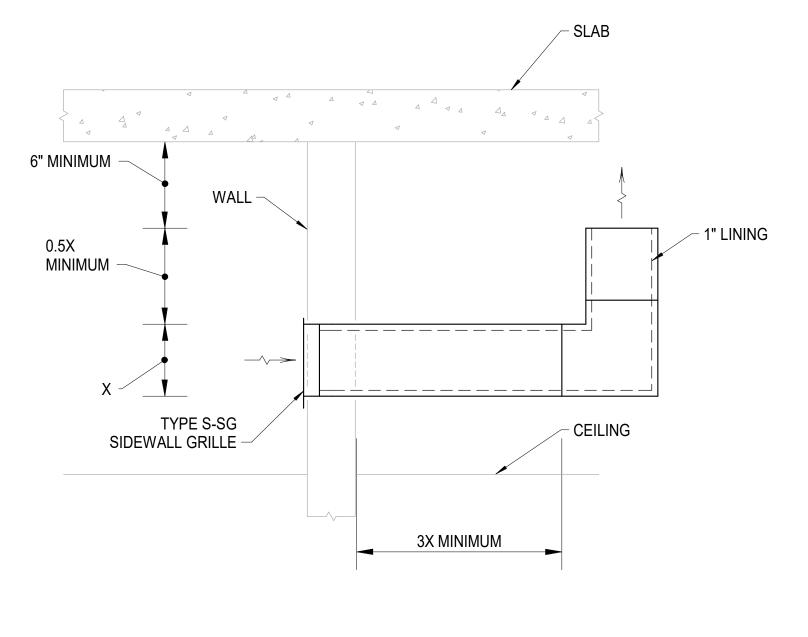




EXPOSED SPIRAL DUCT. COORDINATE FINISH WITH ARCHITECT. IF DUCTWORK IS TO BE PAINTED, PROVIDE PAINT GRIP -FINISH. PAINT IN THE COLOR SELECTED BY THE ARCHITECT.



EXPOSED DUCT IN FINISHED SPACES DETAIL



NOTES: 1. SEAL WALL PENETRATION AIRTIGHT. 2. DUCTS SHALL BE MINIMUM 22 GAUGE SHEET METAL. 3. SEE FLOOR PLANS FOR DUCT SIZES.

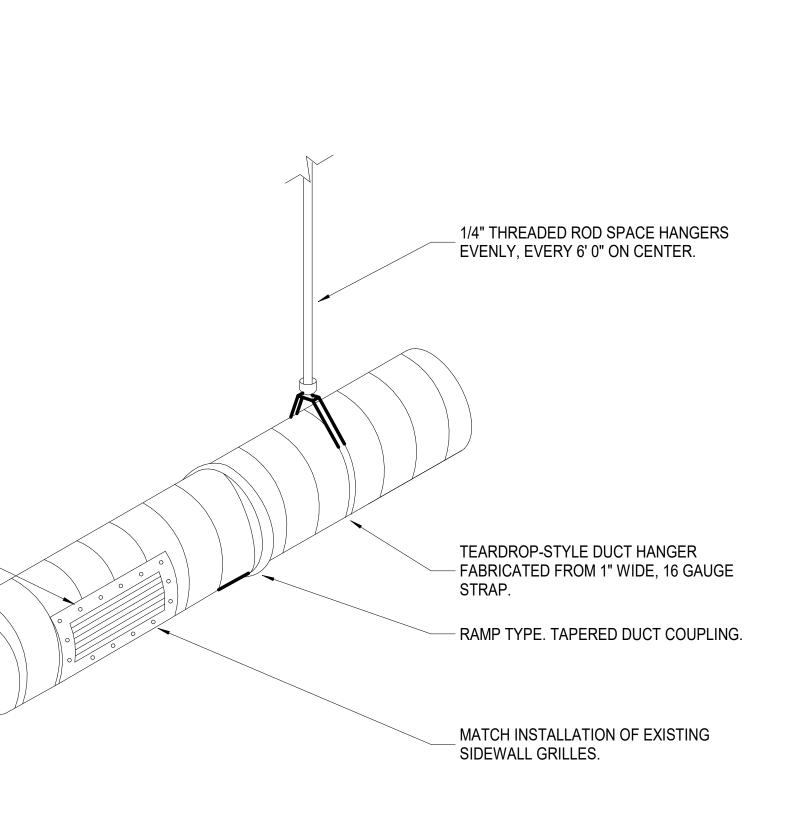
3 TRANSFER DUCTS

NO SCALE

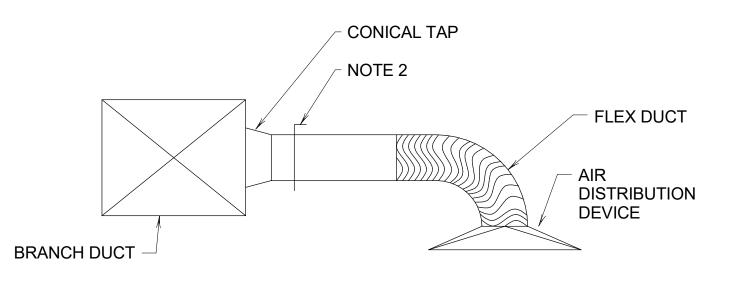
NOT TO SCALE

ARCHITECT SHALL APPROVE SAMPLE INSTALLATION BEFORE ALL EXPOSED DUCTWORK IS INSTALLED.

ROTATE DUCTS AT EACH JOINT SO THAT THE SPIRAL SEAM LINES UP TO APPEAR CONTINUOUSLY.

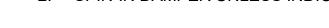


2 TRANSFER DUCTS



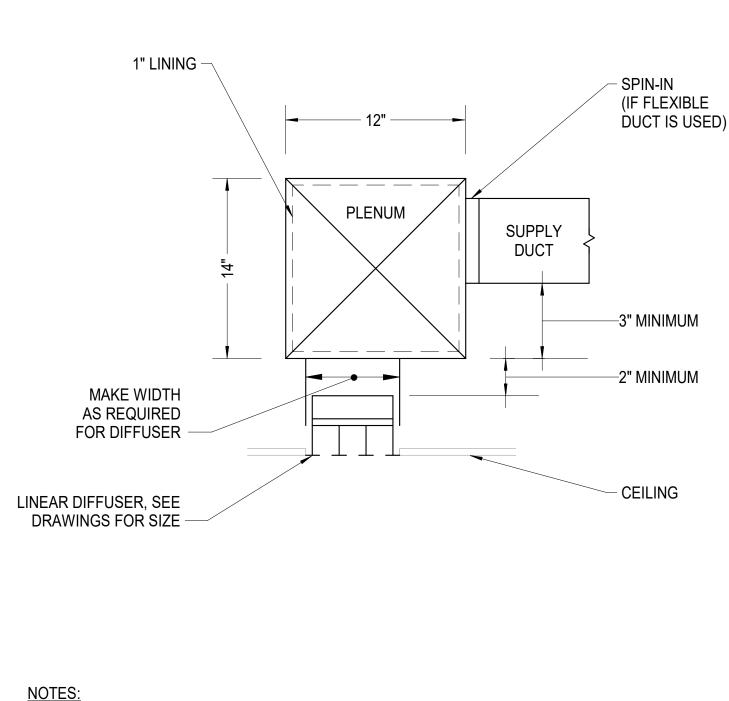
NOTES:

- 1. FLEXIBLE DUCTWORK SHALL BE INSTALLED IN A FULLY
- EXTENDED CONDITION, FREE OF SAGS AND KINKS. THE MAXIMUM LENGTH SHALL NOT EXCEED 7'-0".
- 2. SPIN-IN DAMPER UNLESS INDICATED OTHERWISE.





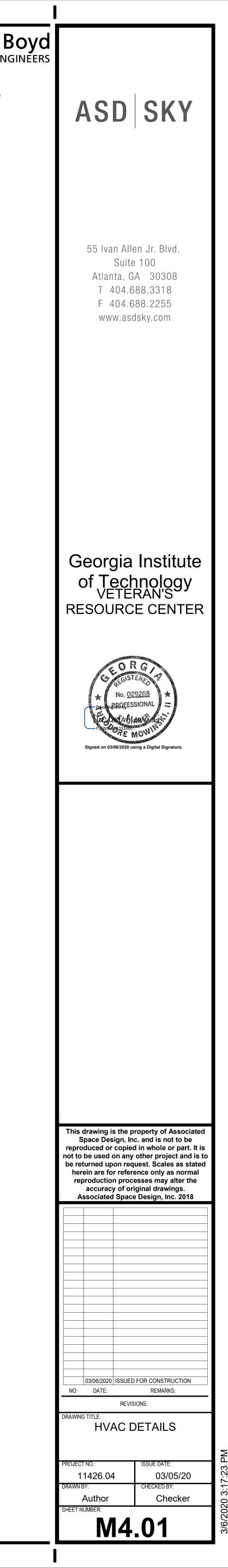
NO SCALE



- <u>NOTES:</u> 1. NECK AND PLENUM LENGTH SHALL BE DETERMINED BY ACTIVE DIFFUSER LENGTH.
- 2. DIFFUSER MOUNTING FRAME SHALL BE DETERMINED BY CEILING CONSTRUCTION AND
- MOUNTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS. 3. TRANSITION AND/OR ADJUST PLENUM DIMENSIONS TO COORDINATE WITH STRUCTURE OR
- OTHER UTILITIES.
- 4. SEE DRAWINGS FOR SPECIAL PLENUM SIZES.

4 LINEAR DIFFUSERS

NO SCALE



PLUMBING LEGEND

	SYMBOLS
	SOIL (S) OR WASTE (W) ABO
	SOIL (S) OR WASTE (W) ABO
	VENT (V)
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER CIRCULATING (I
	INDIRECT DRAIN (D)
- 	PIPING TO BE REMOVED
- Ø	EQUIPMENT TO BE REMOVE
-	
-	FLOOR SINK
- IQI	BALL VALVE
- -	
-	
	ABBREVIATIONS
ABV	ABOVE
AFF/AFG/ARF	ABOVE FINISHED FLOOR/GR
ARCH	ARCHITECT/ARCHITECTURA
BEL	BELOW
BF	BELOW FLOOR
CLG	CEILING
CONN	
CONT	
CTE	CONNECT TO EXISTING
DN -	DOWN
DWG	
EX	– EXISTING
EXP	 EXPOSED
- FD	- FLOOR DRAIN
FS	FLOOR SINK
GR	GRADE
IE	- INVERT ELEVATION
LAV	
MECH	– MECHANICAL
REL	_ RELOCATE
REM	_ REMOVE
SHT	- SHEET
SPEC	- SPECIFICATION
TEMP	- TEMPERATURE
TP	- TRAP PRIMER
TR	- THROUGH ROOF
TS	TIGHT TO STRUCTURE
UC	UNDERCOUNTER
UG	
- VTR	VENT THROUGH ROOF
-	L

	PI
NO.	
SK-1	SINK, SINGLE COMPARTMENT, UN PULL-OUT SPRAYHEAD, 1.5 GPM
IM-1	ICE MAKER CONNECTION BOX, PL

OVE FLOOR OR GRADE LOW FLOOR OR GRADE

- (HWC)

- RADE/RAISED FLOOR

- 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.
- 4. SCHEDULE WORK SO EXISTING SYSTEMS WILL HAVE MINIMAL INTERRUPTION. PERFORM WORK AT SUCH TIME AND IN SUCH A MANNER AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND AS APPROVED BY THE OWNER. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING SYSTEMS
- 5. MAINTAIN, ON SITE, A COMPREHENSIVE SET OF DRAWINGS WITH AS-BUILT CONDITIONS CLEARLY INDICATED IN RED. PROVIDE 2 COPIES TO OWNER AT COMPLETION OF PROJECT AND PDFS TO OWNER AND ARCHITECT.
- 6. SUBMITTALS SHALL INDICATE COMPLIANCE WITH EACH REQUIREMENT INDICATED IN THE SPECIFICATIONS AND DRAWINGS. SUBMITTALS SHALL BE PROVIDED IN PDF FORMAT WITH LEGIBLE TEXT AND GRAPHICS. PDFS SHALL BE GENERATED FROM ORIGINAL ELECTRONIC MEDIA. SCANNED HARD COPIES WITH HAND MARKUPS ARE NOT ACCEPTABLE. A. INDICATE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B. INDICATE ANY DEVIATIONS FROM THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. C. SUBMITTALS NOT SPECIFICALLY REQUIRED OR NOT COMPLYING WITH THE FORMAT REQUIREMENTS SHALL BE RETURNED UNREVIEWED.
- D. WHEN SUBMITTAL DATA INDICATES MULTIPLE OPTIONS OR MODEL NUMBERS, HIGHLIGHT OR OTHERWISE INDICATE THE SELECTED OPTION OR NUMBER.
- ELECTRONICALLY DELETE ANY NON-APPLICABLE PAGES. E. RESUBMITTALS REQUIRED TO ADDRESS REVIEW COMMENTS SHALL INCLUDE A COVER TRANSMITTAL WITH A WRITTEN EXPLANATION OF HOW EACH REVIEW COMMENT HAS BEEN ADDRESSED. SUBMITTALS PREVIOUSLY APPROVED OR APPROVED AS NOTED INCLUDED WITH A RESUBMITTAL SHALL BE RETURNED UNREVIEWED
- F. REPRODUCTIONS OR ELECTRONIC VERSIONS OF DESIGN DRAWINGS SHALL NOT BE USED IN THE PREPARATION OF SHOP DRAWINGS. 7. PROVIDE SUBMITTALS FOR THE FOLLOWING:
- A. WASTE AND VENT COUPLINGS. B. DOMESTIC WATER PIPING.
- C. VALVES.
- D. PLUMBING FIXTURES. E. PLUMBING SYSTEMS TESTING REPORT.
- F. AS-BUILT DRAWINGS.
- 8. EQUIPMENT AND MATERIALS SHALL BE NEW AND OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNATED MANUFACTURER. MATERIALS AND EQUIPMENT SHALL BE UL-LISTED AND SHALL BEAR THE UL LISTING MARK ON PRODUCTS FOR WHICH STANDARDS HAVE BEEN ESTABLISHED AND FOR WHICH LISTING IS REGULARLY FURNISHED BY UL.
- 9. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS, OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE OR DETERIORATION DURING CONSTRUCTION. STORE MATERIALS AND EQUIPMENT UNDER COVER AND OFF THE GROUND OR FLOORS.
- 10. THE EXISTING INSTALLATION SHALL REMAIN AS-IS EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN. CONNECT THE NEW WORK TO THE EXISTING WORK AND ADAPT THE EXISTING WORK TO THE CHANGES IN THE BUILDING AND SYSTEMS. 11. COORDINATE THE INSTALLATION OF NEW PIPING AND OTHER EQUIPMENT WITH EXISTING
- EQUIPMENT WHICH IS TO REMAIN OPERATIONAL TO AVOID CONFLICT WITH OPERATING PERFORMANCE AND WORKING CLEARANCES. 12. REMOVE EXPOSED PIPING RENDERED USELESS DUE TO CHANGES. CAP OUTLETS IN PIPING. RELOCATE CONCEALED PIPING WHICH IS EXPOSED BY REMOVAL OF WALLS AND
- RECONNECT. SLEEVES LEFT OPEN BY REMOVAL OF PIPING SHALL BE CUT FLUSH WITH THE FINISHED SLAB AND FILLED WITH GROUT FLUSH WITH BOTH SIDES OF SLAB. EXISTING PLUMBING FIXTURES WHICH ARE REMOVED AND ARE NOT REUSED IN THE NEW WORK SHALL BE TURNED OVER TO THE OWNER. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED AND NOT ACCEPTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- 13. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED SHALL NOT BE USED IN THE NEW WORK, EXCEPT AS SPECIFIED HEREIN. 14. WHERE EXISTING PIPING AND EQUIPMENT IS INDICATED ON THE DRAWINGS, THEIR SIZES
- AND LOCATIONS SHALL BE VERIFIED. 15. UNLESS OTHERWISE SPECIFIED HEREIN OR INDICATED ON THE DRAWINGS, THE SIZES OF THE VALVES, PIPING, AND ACCESSORIES DEDICATED TO A PIECE OF EQUIPMENT OR FIXTURE SHALL NOT BE LESS THAN THE PIPE SIZE TO WHICH THEY ARE CONNECTED.
- 16. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF FIXTURES AND
- EQUIPMENT. MAKE FINAL CONNECTIONS TO EQUIPMENT AND FIXTURES. 17. PROVIDE ADEQUATE CLEARANCE AT VALVES AND OTHER EQUIPMENT REQUIRING
- MAINTENANCE ABOVE THE CEILING. 18. HANGERS AND SUPPORTS, GENERAL
- A. AT GROUPS OF CLOSE-COUPLED VALVES AND STRAINERS INSTALLED IN THE SAME LINE, PROVIDE MULTIPLE HANGERS TO ELIMINATE ANY STRESS ON THE PIPING AND VALVE JOINTS. SUPPORT PIPING IN CHASES AND WALLS BEHIND PLUMBING FIXTURES AND PLUMBING-RELATED FIXTURES WITH BRACKETS AND U-BOLTS SECURED TO WASTE PIPING OR WALL STUDS AS APPLICABLE. SELECT U-BOLTS TO BEAR ON PIPING. B. SECURE PIPING TO CHANNEL STRUT WITH CLAMPS.
- C. FOR INSULATED PIPING, PROVIDE INSULATION PROTECTORS AT EACH HANGER AND/OR CHANNEL STRUT.
- D. FOR INSULATED PIPING, SELECT HANGERS AND CHANNEL STRUT CLAMP SIZES FOR THE INSULATION'S OUTER DIAMETER. SELECT HANGERS AND CLAMPS SO THEY DO NOT COMPRESS INSULATION. PIPE INSULATION SHALL RUN CONTINUOUS WITHOUT ANY BREAKS AT HANGERS OR CHANNEL STRUTS.
- E. SUPPORT PIPING IN CHASES AND WALLS WITH BRACKETS AND U-BOLTS SECURED TO WALL STUDS AS APPLICABLE. SELECT U-BOLTS TO BEAR ON PIPING. 19. SPACE HORIZONTAL SUPPORTS AS INDICATED BELOW
- A. SUPPORTS FOR COPPER TUBING: 0.5" TO 1.25" MAXIMUM OF 5'
- B. SUPPORTS FOR COPPER TUBING: 1.5" TO 2" MAXIMUM OF 8'. C. ISOLATE BARE COPPER TUBING FROM FERROUS METAL HANGERS AND CHANNEL STRUT SUPPORTS WITH FELT OR RUBBER LINERS.
- D. SUPPORTS FOR CAST IRON PIPING, EXCLUDING FITTINGS: MAXIMUM OF 5'. 20. PROVIDE LABELS FOR PIPING AND TAGS FOR VALVES. LABELS AND TAGS SHALL MAINTAIN THE SCHEME AND SEQUENCE ALREADY IN PLACE THROUGHOUT THE BUILDING. 21. LABELS SHALL BE ON THE LOWER QUARTERS OF HORIZONTAL PIPING, EXCEPT WHERE
- SUCH LOCATION WOULD BE OBSCURED, AND AT THE PLANE OF OBSERVATION ON VERTICAL PIPING. WRAP ARROW TAPE COMPLETELY AROUND THE PIPE AT EACH END OF LABEL, WITH ARROWS POINTING IN THE DIRECTION OF FLOW.
- 22. PROVIDE THROUGH-PENETRATION FIRESTOPS AT ALL PENETRATIONS OF FIRE-RATED CONSTRUCTION BY PIPING.

PLUMBING FIXTURE SCHEDULE						
FIXTURE TYPE		PIPING CONNECTION SIZE				
		CW	S OR W	-		
UNDER-MOUNT STAINLESS STEEL, SINGLE LEVER GOOSENECK FAUCET, M	0.5"	0.5"	1.5"	-		
PLASTIC	-	0.5"	-	-		

PLUMBING SPECIFICATIONS CONTINUED

SYSTEMS TESTING . GENERAL:

- REPLACED.
- NEW COUPLINGS.
- PASSED THE SPECIFIED TESTS.
- HOUR. 3. DOMESTIC WATER PIPING CLEANING AND DISINFECTION:
- PIPING AND FIXTURES.
- SYSTEM UNTIL WATER RUNS CLEAR.
- D. FLUSH THE SYSTEMS WITH CLEAN, POTABLE WATER FROM THE BUILDING SUPPLY
- SYSTEM. BY THE LOCAL HEALTH AUTHORITY. SAMPLES SHALL BE TAKEN IN THE PRESENCE OF
- THE OWNER. OF COLIFORM BACTERIA.
- G. PROVIDE RESULTS OF TESTS. 4. SANITARY WASTE AND VENT SYSTEMS TESTING:
- HOUR.
- HAVING AN OBSTRUCTION.
- PRODUCTS 1. PIPING AND ACCESSORIES
- A888-2018A. ASTM A888-2018A.
- IN TORQUE AND A MAXIMUM PRESSURE TEST OF 6 PSIG.
- B16.22-2018. SIZES 0.5" TO 2.5".

- FITTING MANUFACTURER.
- CONNECTIONS.
- HAVE EXTENDED STEMS. OR NIBCO S-585-66-LF.
- 2. PIPE INSULATION B. INSULATE COLD WATER PIPING WITH 0.5" THICK INSULATION.

- FIBERGLASS SCRIM FABRIC.
- 3. HANGERS
- a. MANUFACTURER: ANVIL CT-69. B-LINE 3170CT. OR PHD 152.
- FINISH.
- BOLTS. WASHERS. AND ACCESSORIES.

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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

F. CAST IRON NO-HUB JOINTS THAT LEAK SHALL BE TAKEN APART AND ASSEMBLED WITH G. SUBMIT A STATEMENT CERTIFYING THAT PIPES AND JOINTS ARE TIGHT AND HAVE

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

A. PURGE DOMESTIC SOFTENED COLD WATER, HARD COLD WATER, AND HOT WATER

B. FLUSH THE PIPING SYSTEMS WITH POTABLE WATER FROM THE BUILDING SUPPLY C. FILL THE SYSTEMS WITH A WATER/CHLORINE SOLUTION CONTAINING A MINIMUM OF 50 PPM CHLORINE. ISOLATE THE PIPING SYSTEMS AND ALLOW TO STAND FOR 24 HOURS.

SYSTEM UNTIL THE CHLORINE IN THE SYSTEM IS THE SAME AS THE BUILDING SUPPLY E. SUBMIT WATER SAMPLES FOR BIOLOGICAL EXAMINATION BY LABORATORIES APPROVED

F. REPEAT THE PROCEDURES AND RESUBMIT WATER SAMPLES AS REQUIRED TO PASS THE BIOLOGICAL TEST. MINIMUM ACCEPTANCE TEST RESULTS SHALL BE 0.0 COLONIES

H. MATERIALS AND TEST METHODS SHALL COMPLY WITH AWWA C651-2014.

A. FILL EACH SYSTEM WITH A 10' HEAD OF WATER AND ALLOW TO STAND FILLED FOR 1

B. AFTER PRESSURE TESTS HAVE BEEN COMPLETED. ENSURE A SMOOTH AND UNOBSTRUCTED FLOW OF LIQUID FOR EVERY DRAINAGE PIPE, FREE FROM CONSTRUCTION DEBRIS OR NATURAL SEDIMENT DEBRIS THAT MAY HAVE ENTERED DURING CONSTRUCTION. ROUTE CLEAN AND FLUSH WITH CLEAR WATER ANY PIPE

A WASTE AND VENT PIPING ABOVE SLAB-ON-GRADE a. PIPING: NO-HUB CAST IRON, PETROLEUM ASPHALTIC-COATED INSIDE AND OUT, ASTM

b. FITTINGS: NO-HUB CAST IRON, PETROLEUM ASPHALTIC-COATED INSIDE AND OUT,

c. COUPLINGS FOR WASTE PIPING: HEAVY-DUTY MECHANICAL COMPRESSION TYPE WITH NEOPRENE COLLARS CONFORMING TO ASTM C564-2014, TYPE 304 STAINLESS STEEL CONSTRUCTION WITH MINIMUM 28 GAUGE SHIELDS, BANDS, CLAMPS, AND SCREWS. COUPLINGS SHALL CONFORM TO FM1680-1989, CLASS 1 FOR 80 LBF-IN TORQUE AND A MINIMUM PRESSURE TEST OF 15 PSIG.

 MANUFACTURER: HUSKY 4000 OR CLAMP-ALL 80. d. COUPLINGS FOR VENT PIPING: STANDARD DUTY MECHANICAL COMPRESSION TYPE WITH NEOPRENE COLLARS CONFORMING TO ASTM C564-2014, TYPE 301 OR 304 STAINLESS STEEL CONSTRUCTION WITH MINIMUM 36 GAUGE SHIELDS, BANDS, CLAMPS, AND SCREWS. COUPLINGS SHALL CONFORM TO CISPI 310-2018 FOR 60 LBF-

 MANUFACTURER: IDEAL STANDARD OR MISSION NO-HUB COUPLING. B. DOMESTIC COLD WATER AND HOT WATER PIPING: a. PIPING: COPPER TUBING, TYPE L HARD TEMPER, ASTM B88-2016.

b. FITTINGS: WROUGHT COPPER AND/OR CAST BRONZE SOCKET TYPE, ASME

c. FITTINGS: WROUGHT COPPER PRESS FITTINGS, ASME B16.22-2018 WITH EPDM ELASTOMERIC O-RING SEALS, MAY BE USED AT THE CONTRACTOR'S OPTION FOR

 MANUFACTURER: NIBCO PRESS FITTINGS, OR VIEGA PROPRESS d. JOINTS: 95/5 TIN/SILVER TYPE, WITH A COMPATIBLE FLUX DESIGNED TO BE COLD WATER FLUSHABLE IN POTABLE WATER SYSTEMS, ASTM B813-2016 AND NSF 61-2018 e. JOINTS: PRESSED TYPE, USING THE TOOLS AND PRESSURE REQUIREMENTS OF THE f. UNIONS IN COPPER WATER PIPING: CAST BRONZE WITH COPPER SOLDERED WATER

g. BALL VALVES IN COPPER WATER PIPING 2" AND SMALLER: 2-PIECE BRONZE OR BRONZE ALLOY BODY, FULL PORT, WITH BLOWOUT-PROOF STEM, RATED FOR 600 PSIG WOG. VALVES SHALL HAVE A STAINLESS STEEL VENTED BALL, REINFORCED SEAT, STUFFING BOX RING, AND LEVER HANDLE. VALVES IN INSULATED PIPING SHALL

MANUFACTURER: APOLLO 77CLF-240, HAMMOND UP8313A, MILWAUKEE UPBA405S.

A. INSULATE HOT WATER PIPING WITH 1"-THICK INSULATION.

C. MAXIMUM K-VALUE FOR PRE-FORMED PIPE INSULATION: 0.23 BTU-IN/(HR-FT²-°F) AT 75°F. a. MANUFACTURER: CERTAINTEED, JOHNS MANVILLE, KNAUF, OR OWENS CORNING. D. ADHESIVES AND MASTICS: AEROFLEX, ARMACELL, CHILDERS, EPOLUX, FOSTER, MARATHON, PITTSBURGH CORNING PC88, CORNING PITTCOTE 300, OR VIMASCO. E. GLASS FABRIC: 10 X 10 THREADS PER SQUARE INCH CONSTRUCTION WHITE

F. TAPE: PRESSURE SENSITIVE, FOIL-SCRIM-KRAFT BACKED.

A. FOR INSULATED WATER PIPING 0.5" AND LARGER: ADJUSTABLE BAND HANGER, STEEL WITH GALVANIZED FINISH AND THREADED SWIVEL KNURL NUT.

a. MANUFACTURER: ANVIL 69, B-LINE 3170NF, OR PHD 141. B. FOR NON-INSULATED COPPER TUBING 0.5" AND LARGER: ADJUSTABLE BAND HANGER,

STEEL WITH COPPER FINISH AND THREADED SWIVEL KNURL NUT.

C. FOR CAST IRON PIPING: AWWA ADJUSTABLE CLEVIS HANGER, STEEL WITH GALVANIZED

a. MANUFACTURER: ANVIL 590, B-LINE B3102, OR PHD 420. D. CHANNEL STRUTS FOR GANG PIPING: MINIMUM 14 GAUGE GALVANIZED STEEL STRUT WITH FACTORY-PUNCHED ATTACHMENT HOLES AND GALVANIZED STRAPS, NUTS,

a. MANUFACTURER: ANVIL, B-LINE, OR UNISTRUT.

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 STAPS, ADJUSTABLE FACEPLATE, AND BLASS COLD WATER VALVE WITH 0.5" SWEAT INLET AND 0.25" COMPRESSION OUTLET. a. MANUFACTURER: OATEY 39156, OR IPS AB9700

WATER HEATER SCHEDULE

		TYPE		ENERGY SOURCE			
NO.	SERVICE	(NOTE 1)	SOURCE (NOTE 2)	CHARACTERISTICS	(NOTE 3)	NOTES	
WH-1	LEVEL 2 - KITCHEN SINK	I	E	16 kW	1.1 GPM	3, 4, 5, 6	

NOTES:

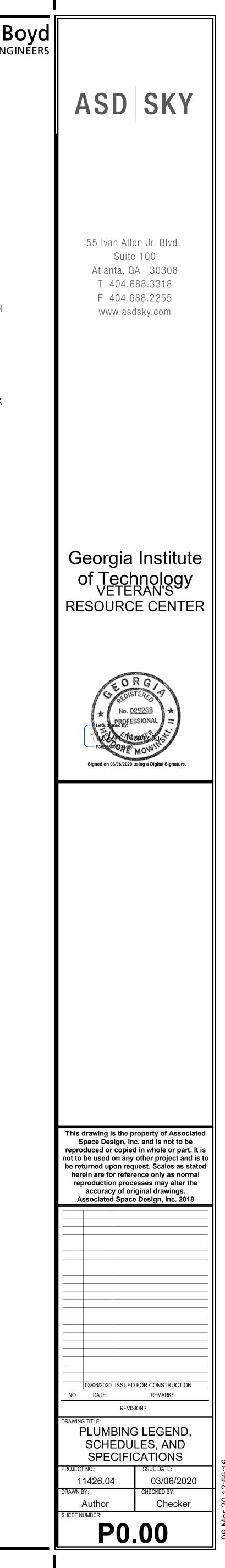
1. TYPE: INSTANTANEOUS - 1

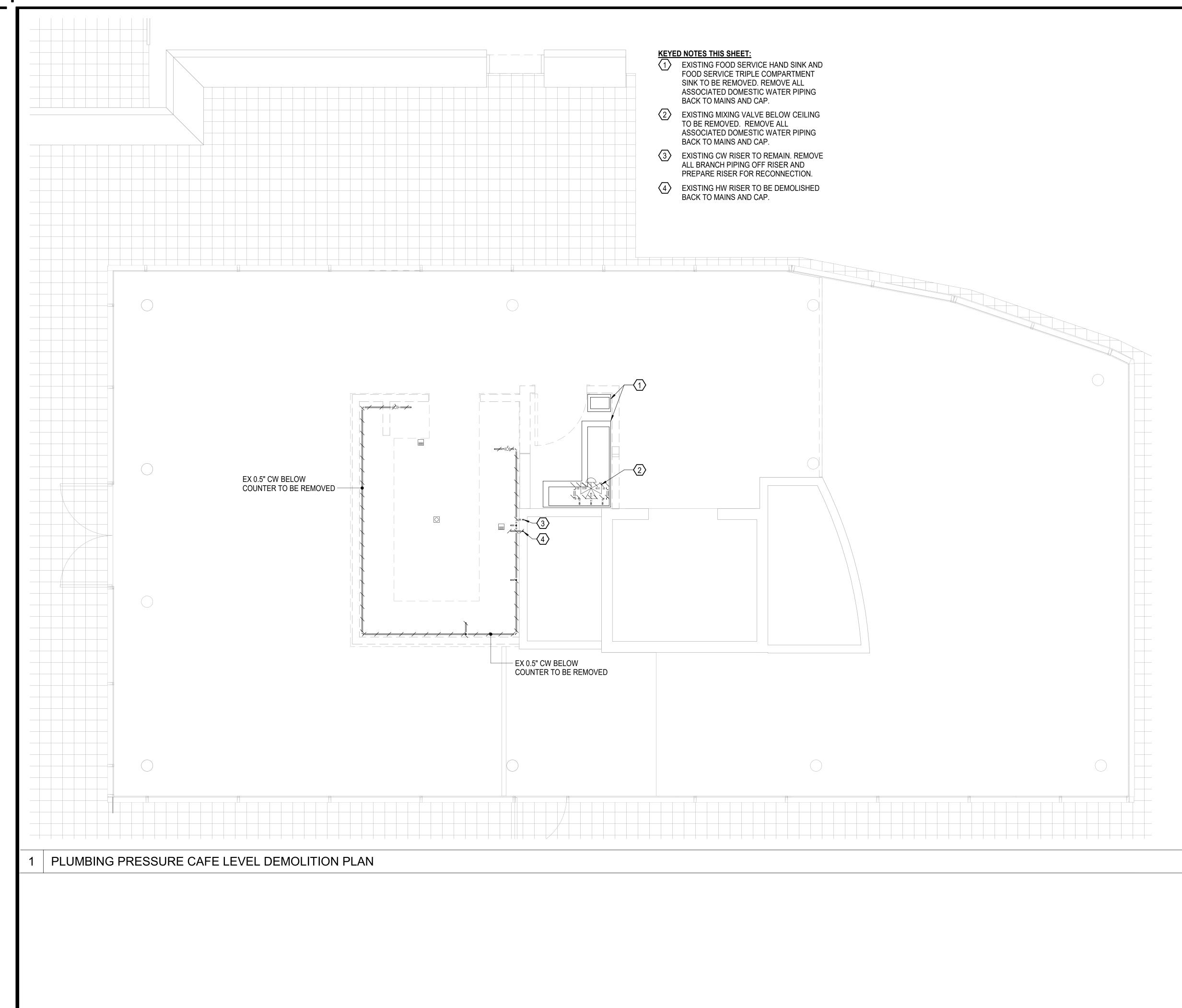
2. SOURCE:

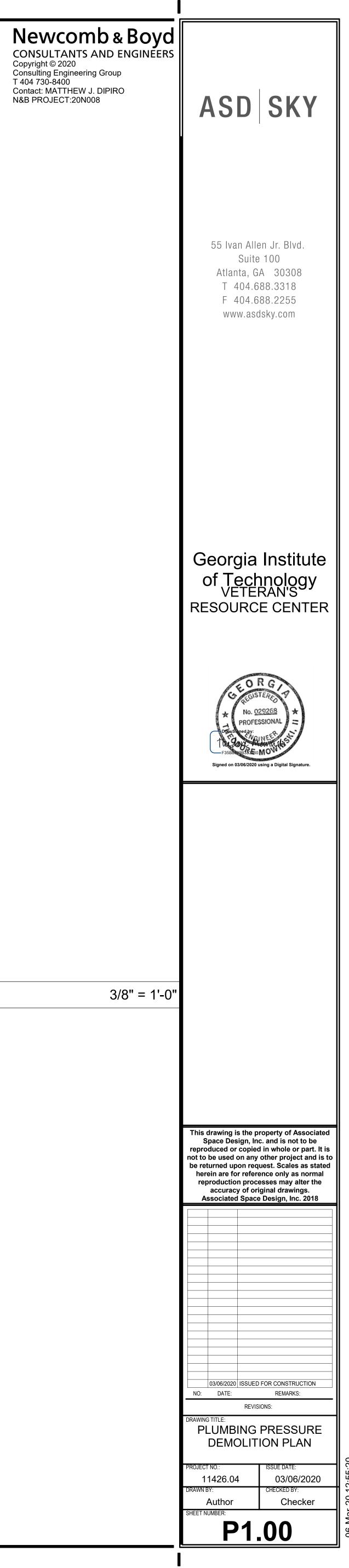
E - ELECTRIC

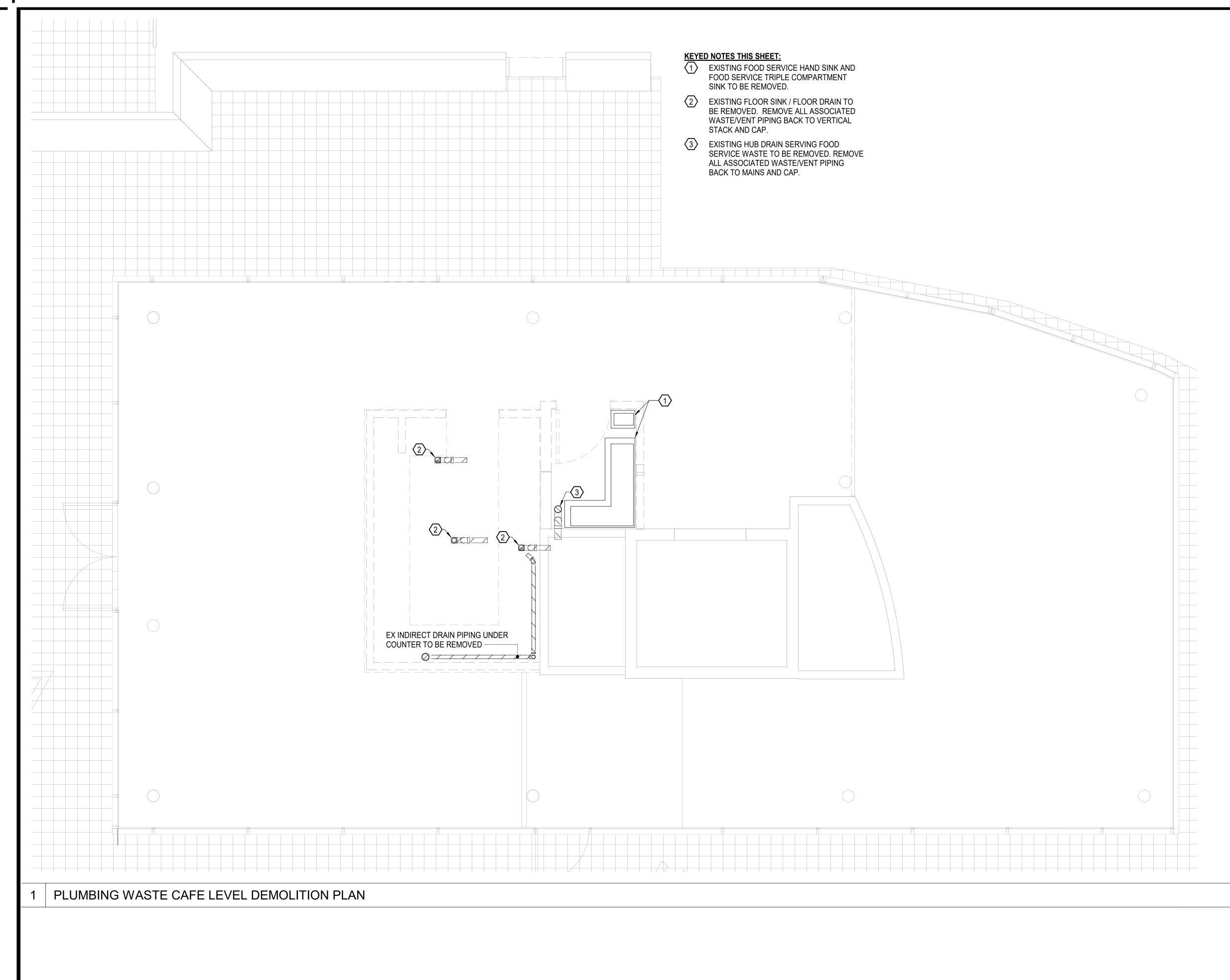
3. RECOVERY CAPACITY FOR WATER HEATER WH-1 IS BASED ON 100°F DIFFERENTIAL REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS 4.

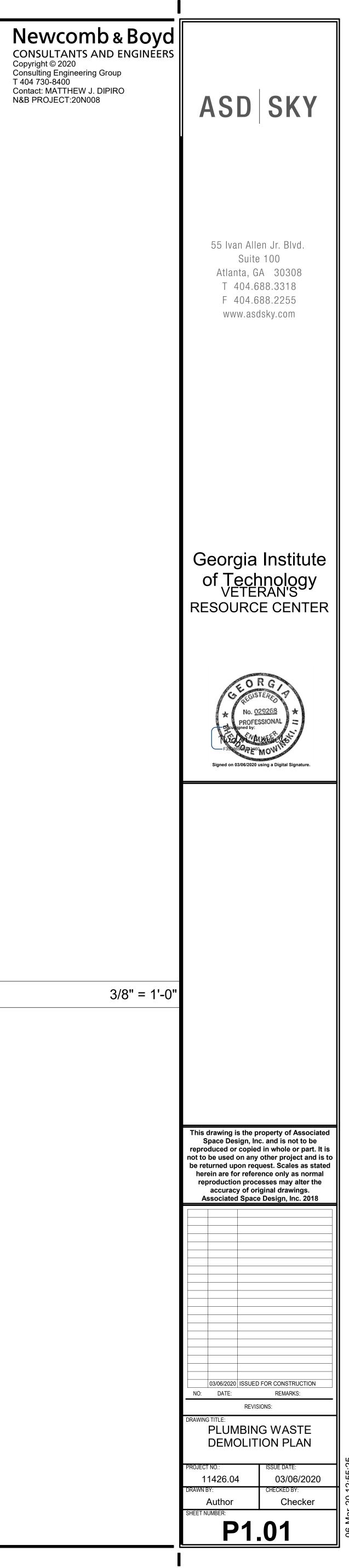
SET WATER HEATER DISCHARGE TEMPERATURE TO 140 °F. WATER HEATER BASIS OF DESIGN: HUBBELL TX016-3R 6

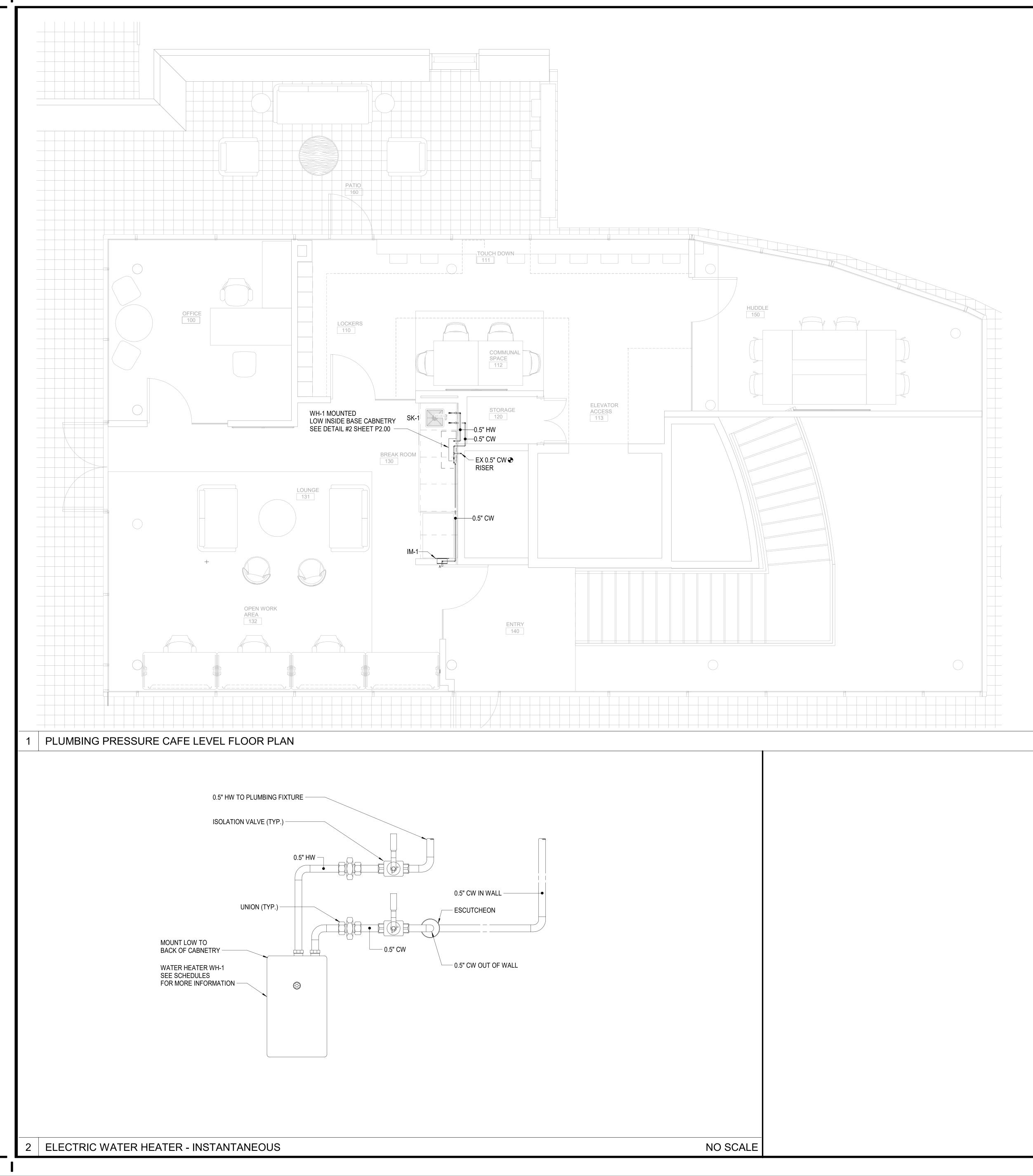


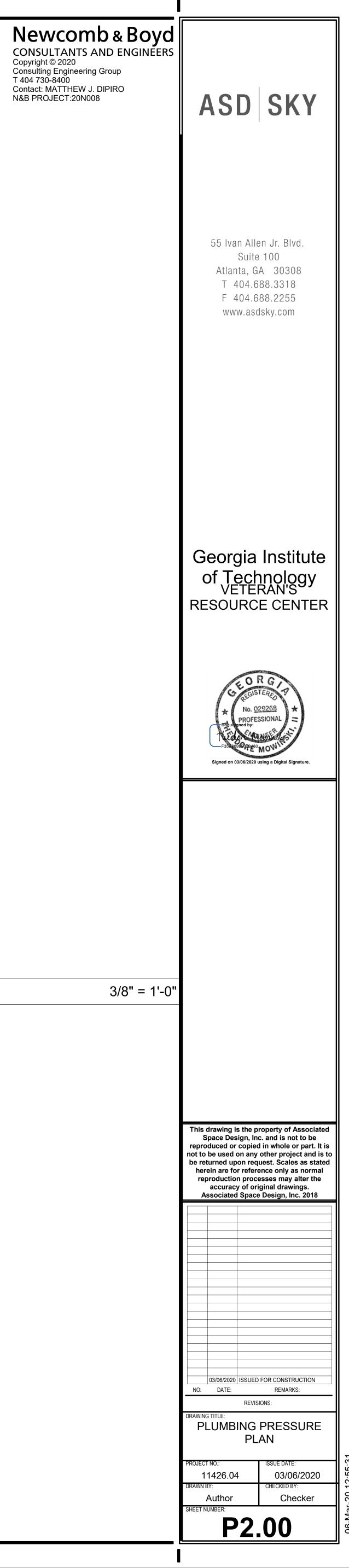


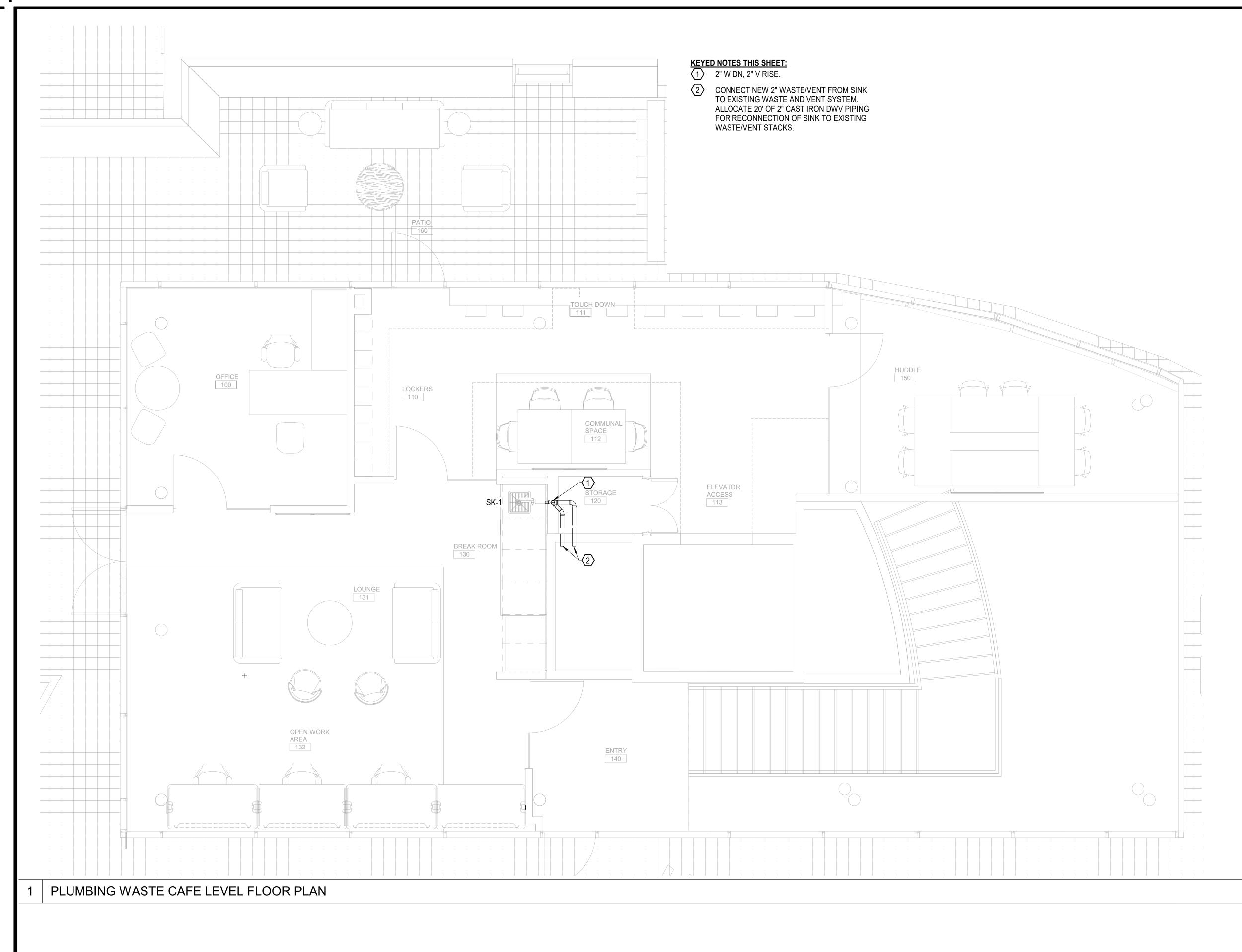


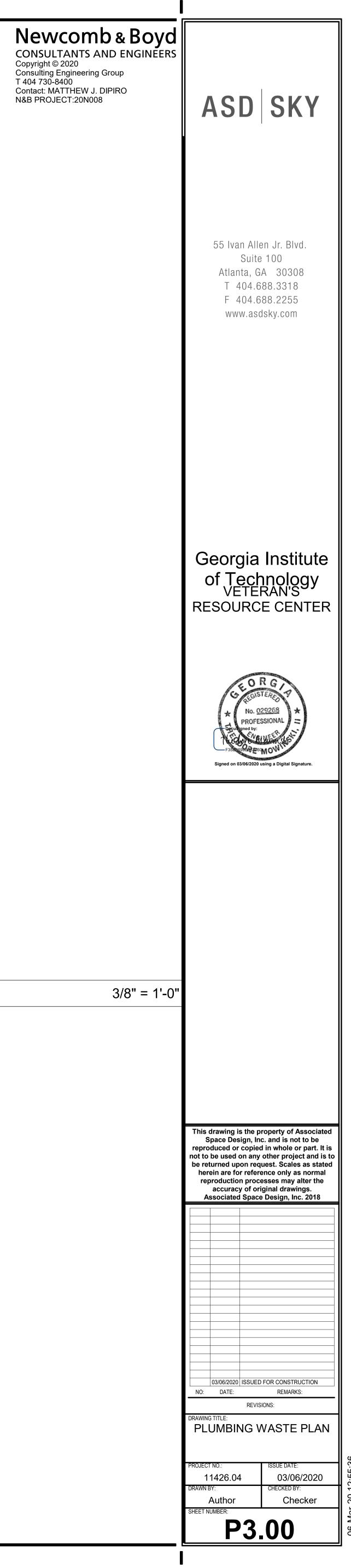












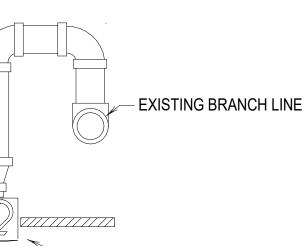
FIRE PROTECTION SPECIFICATIONS
 FIRE PROTECTION WORK IS A MODIFICATION OF AN EXISTING FIRE PROTECTION SYSTEM THAT CURRENTLY SERVES THE BUILDING. PROVIDE NEW SPRINKLER PIPING OR MODIFICATIONS TO THE EXISTING PIPING TO SERVES THE BUILDING. PROVIDE NEW SPRINKLER PIPING OR MODIFICATIONS TO THE EXISTING PIPING TO ACCOMMODATE THE ARCHITECTURAL MODIFICATIONS TO SUPPORT THE NEW LAYOUT DEPICTED.
2. SYSTEM INSTALLATION SHALL COMPLY WITH NFPA 13-2019.
3. DESIGN SHALL BE PREPARED UNDER THE SUPERVISION OF AN ENGINEER OR A NICET LEVEL III TECHNICIAN CERTIFIED IN FIRE PROTECTION ENGINEERING TECHNOLOGY AND AUTOMATIC SPRINKLER SYSTEM LAYOUT. SUBMITTALS, DRAWINGS, AND HYDRAULIC CALCULATIONS SHALL BEAR THE NICET TECHNICIAN'S CERTIFICATION NUMBER.
4. DRAWINGS AND CALCULATIONS SHALL SHOW HYDRAULIC REFERENCE POINTS FROM THE SOURCE TO THE REMOTE DESIGN AREAS AND SHALL INDICATE LOSSES FOR METERS AND BACKFLOW PREVENTER.
5. CONTRACTOR SHALL DEVELOP COORDINATED INSTALLATION DRAWINGS AND HYDRAULIC CALCULATIONS INCLUDING THE FOLLOWING:
 A. REFLECTED CEILING PLAN SHOWING THE LOCATION, TYPE, AND TEMPERATURE RATING OF NEW SPRINKLER HEADS. B. PIPING PLANS SHOWING OFFSETS, PIPE ELEVATIONS, SIZES, AND LENGTHS; HANGERS TYPES AND LOCATIONS; SEISMIC RESTRAINT LOCATIONS AND TYPES; HYDRAULIC CALCULATION REFERENCE POINTS; REMOTE AREA LOCATION AND DENSITY; C. HYDRAULIC CALCULATIONS SHALL BE PERFORMED BY A COMPUTER CALCULATION PROGRAM SPECIFICALLY DESIGNED FOR THE ANALYSIS OF FIRE SPRINKLER SYSTEMS. CALCULATIONS SHALL USE THE AREA/DENSITY METHOD DESCRIBED IN NFPA 13. D. NO WORK SHALL BE FABRICATED AND/OR INSTALLED PRIOR TO RECEIPT BY THE CONTRACTOR OF APPROVED TRADE SHOP DRAWINGS AND APPROVED COORDINATION DRAWINGS WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM THE ARCHITECT. NO CHANGE ORDERS WILL BE APPROVED OR DESIGN ASSISTANCE PROVIDED FOR REMEDIAL FIELD COORDINATION ACTIVITIES FOR WORK FABRICATED AND/OR INSTALLED PRIOR TO RECEIPT BY THE CONTRACTOR OF APPROVED TRADE SHOP DRAWINGS. AND APPROVED OR DESIGN ASSISTANCE PROVIDED FOR REMEDIAL FIELD COORDINATION ACTIVITIES FOR WORK FABRICATED AND/OR INSTALLED PRIOR TO RECEIPT BY THE CONTRACTOR OF APPROVED TRADE SHOP DRAWINGS. AND APPROVED COORDINATION DRAWINGS.
 6. FIRE SUPPRESSION SUBMITTALS SHALL INCLUDE THE FOLLOWING: A. FINAL HYDRAULIC CALCULATIONS BASED ON WORKING DRAWINGS, INCLUDING ADDITIONAL FITTINGS FOR COORDINATION, AND CONFORMING TO THE FORMAT GIVEN IN NFPA 13. B. PIPE HANGERS C. PIPING AND FITTINGS, ABOVEGROUND. D. SPRINKLER HEADS. E. WORKING DRAWINGS WITH PIPE LENGTHS, HANGER LOCATIONS, HYDRAULIC REFERENCE POINTS, AND DATA REQUIRED BY NFPA 13, MUMMENT DATA FOR ALL AND FITTINGS WITH PIPE LENGTHS, HANGER LOCATIONS, HYDRAULIC REFERENCE POINTS, AND DATA REQUIRED BY NFPA 13, MUMMENT DATA FOR ALL AND FITTINGS.
MINIMUM SCALE: 1/8" = 1'-0". 7. SPRINKLER SYSTEM MODIFICATIONS AND INSTALLATION SHALL BE PERFORMED BY AN EXPEREIENCED COMPANY REGULARLY ENGAGED IN THE INSTALLATION OF SPRINKLER SYSTEMS. THE COMPANY SHALL HOLD A CURRENT COMPETENCY CERTIFICATE ISSUED BY THE STATE OF GEORGIA.
 8. NEW SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE AND THE TEMPERATURE RATING SHALL BE PER NFPA 13. SPRINKLERS ARE TO BE CONCEALED TYPE IN ALL FINISHED CEILINGS AND WALLS. SPRINKLER HEADS IN AREAS WITH EXPOSED STRUCTURE SHALL BE UPRIGHT TYPE ON 1" SPRIG-UPS WITH THE DEFLECTOR POSITIONED WITH 12" OF THE DECK ABOVE. A. PENDENT SPRINKLERS: CONCEALED, QUICK RESPONSE TYPE WITH BRASS BODY WITH WHITE COVERPLATE. B. UPRIGHT SPRINKLERS: QUICK RESPONSE TYPE WITH ROUGH BRASS BODY. C. SIDEWALL SPRINKLERS: RECESSED QUICK RESPONSE TYPE WITH WHITE BODY WITH 2-PIECE WHITE WALL ESCUTCHEON.
 9. SPRINKLER SYSTEM DESIGN CRITERIA: A. LIGHT HAZARD OCCUPANCY - 0.10 GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQUARE FEET WITH A MAXIMUM SPRINKLER SPACING OF 225 SQUARE FEET. a. PUBLIC AREAS b. OFFICES B. ORDINARY HAZARD GROUP 1 OCCUPANCY - 0.15 GPM PER SQUARE FOOT OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQUARE FEET WITH A MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET. a. MECHANICAL / ELECTRICAL ROOMS b. STORAGE ROOMS
10. MAINTAIN EXISTING PIPING TYPE AND FITTINGS TYPE.
11. PENDENT SPRINKLER HEADS SHALL BE LOCATED WITHIN TILE CENTER IN AREAS WITH LAY-IN ACOUSTICAL CEILING TILES. SPRINKLER HEADS IN GYPSUM BOARD CEILINGS SHALL BE CENTERED AND ALIGNED.
12. PROVIDE WIRE SPRINKLER GUARDS ON ALL SPRINKLERS LOWER THAN 7'-0" AFF AND ON ALL SPRINKLERS IN ELECTRICAL, MECHANICAL AND TELECOM ROOMS.
13. SUBMIT A LETTER CERTIFYING THAT WELDERS AND WELDING PROCEDURES MEET THE REQUIREMENTS OF NFPA 13.
14. RUN PIPE PARALLEL TO COLUMN CENTERLINES. PIPE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM HEAD ROOM. PROVIDE AUXILIARY DRAINS TO DRAIN THE PIPING SYSTEM.
15. HANGERS SHALL BE UL LISTED, GALVANIZED, FLAT BAND TYPE. HANGERS SHALL PROVIDE UPLIFT RESTRAINT AND SHOULD BE DETAILED ON SHOP DRAWINGS.
16. LOCATE SPRINKLER HEADS UNDER EXPOSED DUCTWORK OVER 48" WIDTH, INCLUDING INSULATION.
17. EACH PORTION OF INTERIOR PIPING SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 200 PSIG MEASURED AT THE BOTTOM OF THE SYSTEM. LEAKS SHALL BE REPAIRED UNTIL THE SYSTEM IS TIGHT FOR 2 HOURS. HYDROSTATIC TESTS SHALL BE MADE AFTER DROM NIPPLES HAVE BEEN CUT BACK AND SPRINKLER HEADS HAVE BEEN INSTALLED. SUBMIT A REPORT DESCRIBING TESTS AND CERTIFYING THE RESULTS.
18. CONTRACTOR TO PROVIDE HYDRAULIC CALCULATION WITH PIPING PLANS TO CARRY THE CALCULATION TO A KNOWN SOURCE.
19. NO WORK SHALL BE FABRICATED AND/OR INSTALLED PRIOR TO RECEIPT BY THE CONTRACTOR OF APPROVED TRADE SHOP DRAWINGS AND APPROVED COORDINATION DRAWINGS WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM THE ARCHITECT. NO CHANGE ORDERS WILL BE APPROVED OR DESIGN ASSISTANCE PROVIDED FOR REMEDIAL FIELD COORDINATION ACTIVITIES FOR WORK FABRICATED AND/OR INSTALLED PRIOR TO RECEIPT BY THE CONTRACTOR OF APPROVED TRADE SHOP DRAWINGS.
20. DO NOT LEAVE SPRINKLER SYSTEM DISCONNECTED OVER-NIGHT.
21. SPRINKLER HEADS WILL BE TURNED UP WHILE CONTRUCTION IS ONGOING AND THEN TURNED DOWN AND REPLACED.
22. SPRINKLER MAINS IN THE CEILINGS WILL REMAIN.
23. EXISTING SPRINKLER BRANCH LINES WILL BE MODIFIED AS REQUIRED TO SUPPLY NEW WORK.

RENTLY SERVES THE BUILDING. ILDING. PROVIDE NEW SPRINKLER IFICATIONS TO SUPPORT THE NEW FIRE PROTECTION LEGEND CHNICIAN CERTIFIED IN FIRE ALS, DRAWINGS, AND HYDRAULIC \times UPRIGHT QUICK RESPONSE SPRINKLER HEAD TO THE REMOTE DESIGN AREAS AND TIONS INCLUDING THE FOLLOWING: SPRINKLER HEADS. ND LOCATIONS; SEISMIC RESTRAINT ON AND DENSITY; 1" ARM-OVER PECIFICALLY DESIGNED FOR THE D DESCRIBED IN NFPA 13. OF APPROVED TRADE SHOP TION FROM THE ARCHITECT. NO COORDINATION ACTIVITIES FOR) TRADE SHOP DRAWINGS. AND 1"x 1/2" REDUCER INGS FOR COORDINATION, AND CEILING -S, AND DATA REQUIRED BY NFPA 13, CED COMPANY REGULARLY ENGAGED SPRINKLER HEAD DETAIL NCY CERTIFICATE ISSUED BY THE SPRINKLER HEAD DETAIL 2 BE PER NFPA 13. SPRINKLERS ARE EXPOSED STRUCTURE SHALL BE

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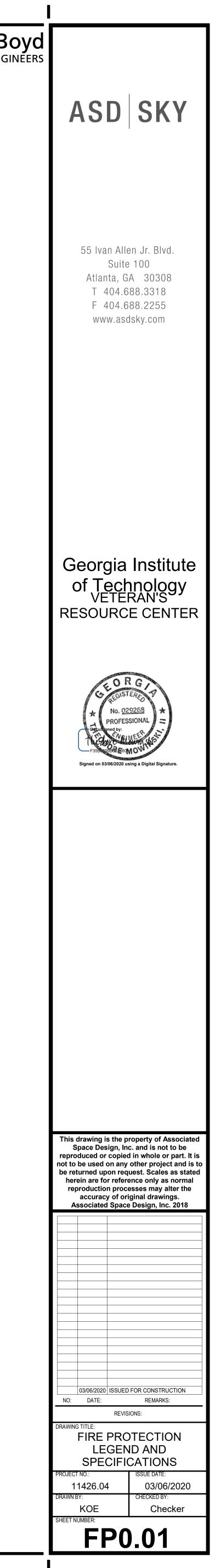
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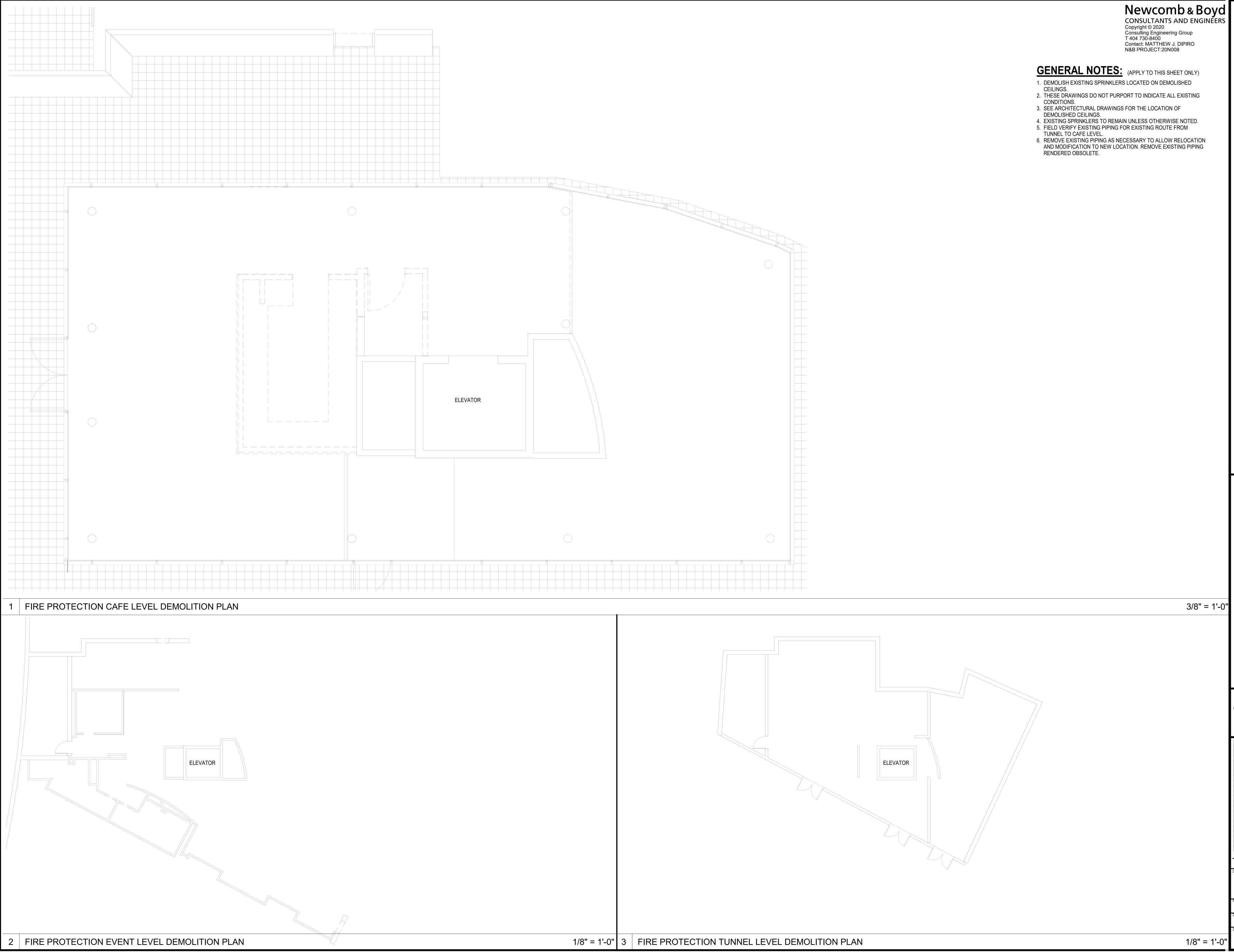
CONCEALED PENDENT QUICK RESPONSE SPRINKLER HEAD WITH WHITE COVERPLATE



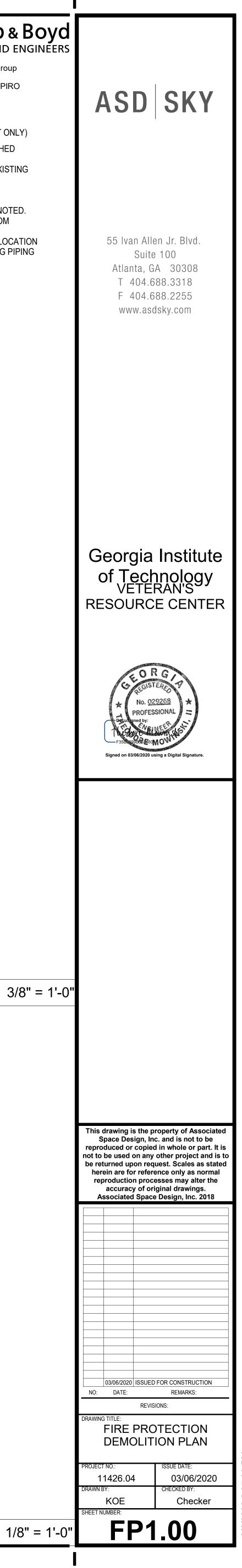
- NEW CONCEALED PENDENT SPRINKLER

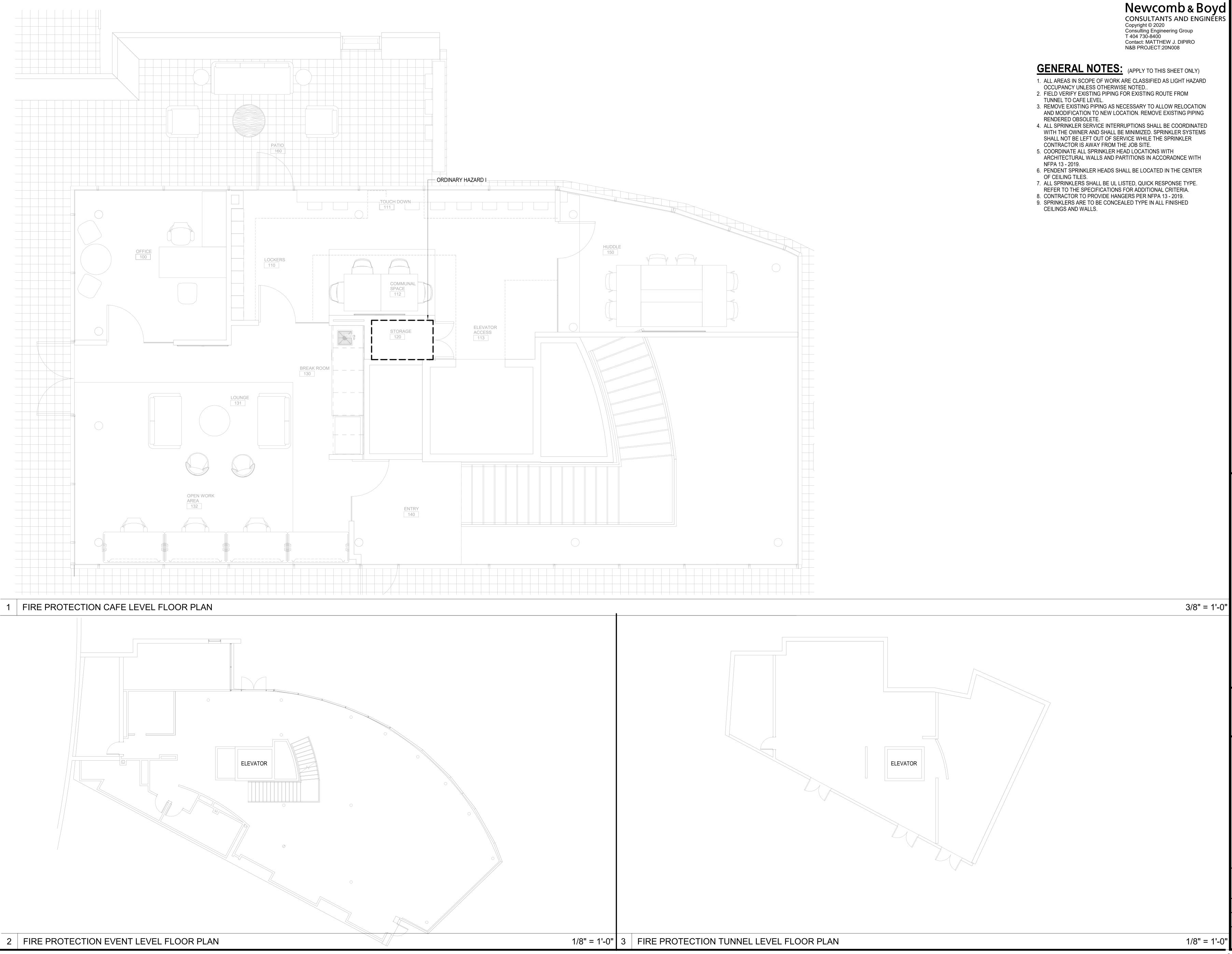
NO SCALE





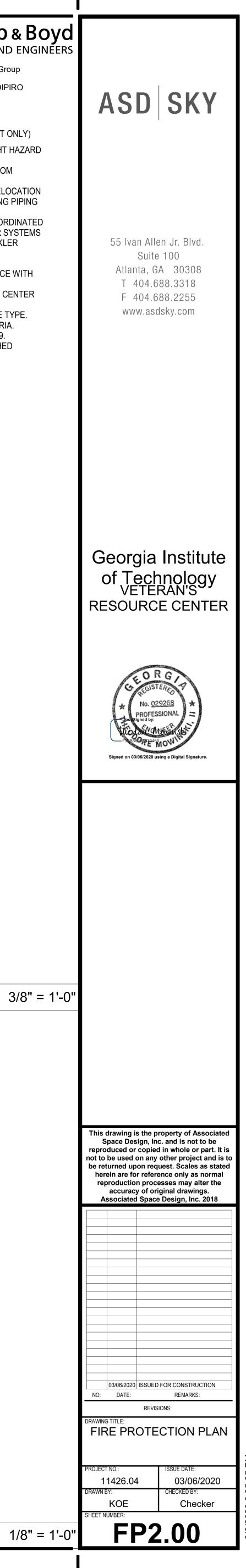
- 1. DEMOLISH EXISTING SPRINKLERS LOCATED ON DEMOLISHED





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- 1. ALL AREAS IN SCOPE OF WORK ARE CLASSIFIED AS LIGHT HAZARD
- 3. REMOVE EXISTING PIPING AS NECESSARY TO ALLOW RELOCATION
- 4. ALL SPRINKLER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AND SHALL BE MINIMIZED. SPRINKLER SYSTEMS SHALL NOT BE LEFT OUT OF SERVICE WHILE THE SPRINKLER
- ARCHITECTURAL WALLS AND PARTITIONS IN ACCORADNCE WITH
- 6. PENDENT SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER
- 7. ALL SPRINKLERS SHALL BE UL LISTED, QUICK RESPONSE TYPE.
- 8. CONTRACTOR TO PROVIDE HANGERS PER NFPA 13 2019. 9. SPRINKLERS ARE TO BE CONCEALED TYPE IN ALL FINISHED



A. GENERAL:	D. WIRING DEVICES:
 COMPLY WITH PROVISIONS OF NFPA 70-2017 LOCAL CODES. LOCAL CODES AND REGULATIONS SHALL GOVERN IN CASE OF CONFLICT. 	1. DEVICES SHALL
2. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE OR	2. DEVICES ON NO
	3. SINGLE-POLE W 1221-2, OR P&S
 DO NOT INSTALL PANELBOARDS, POWER PANELS, TRANSFORMERS, OR STARTERS WITHIN 42" HORIZONTALLY, FROM FLOOR TO THE STRUCTURE ABOVE, OF PIPING, DUCTWORK AND MECHANICAL EQUIPMENT. 	4. DUPLEX RECEP INTEGRAL GROU MANUFACTUI
4. OPENINGS THROUGH FIRE RATED FLOORS AND PARTITIONS SHALL BE SEALED WITH FIRE RATED SEALANT AFTER INSTALLATION OF RACEWAYS IN A MANNER TO MAINTAIN THE FIRE RATING OF THE SEPARATION.	5. GROUND FAULT TYPE, GRAY CO
5. THE EXISTING INSTALLATION SHALL REMAIN EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED.	MANUFACTUI 2095TRWR. 1. DEVICES S
 PERFORM ALL WORK NECESSARY TO INTERCONNECT THE NEW WORK WITH THE EXISTING WORK AND TO ADAPT THE EXISTING WORK TO THE CHANGES IN THE BUILDING AND THE SYSTEM. 	6. THE APPROXIMA SHALL BE DETE THE EXACT LOC PERMANENTLY
7. COORDINATE THE INSTALLATION WITH THE STRUCTURE, ARCHITECTURE, AND WORK OF OTHER TRADES TO ELIMINATE CONFLICTS.	7. MOUNTING HEIG THE OUTLET.
 WHERE EXISTING MECHANICAL EQUIPMENT IS MODIFIED OR RELOCATED, MODIFY THE ELECTRICAL CONNECTIONS TO THE EQUIPMENT TO ADAPT IT TO ITS NEW FUNCTION OR LOCATION. 	8. WHERE OUTLET ONE VERTICAL I
 ELECTRICAL MATERIALS SHALL BE NEW AND LISTED BY THE UNDERWRITERS' LABORATORIES, INC. WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THIS AGENCY. 	9. RECEPTACLES (EQUIPMENT NAI
10. EACH CIRCUIT BREAKER, PANELBOARD, DISCONNECT SWITCH, OR OTHER DEVICE SHALL HAVE	E. DEVICE COVERPLA
AN IDENTIFYING NAMEPLATE AFFIXED. NAMEPLATES SHALL BE LAMINATED PLASTIC, WHITE ENGRAVED LETTERS ON BLACK BACKGROUND FOR NORMAL POWER SUPPLY AND WHITE ENGRAVED LETTERS ON RED BACKGROUND FOR EMERGENCY POWER SUPPLY. LETTERS SHALL BE 0.25" HIGH.	1. COVERPLATES I BE TYPE 302 SA LEVITON, OR P&
B. DEMOLITION:	2. WEATHERPROC PROTECTION W
 EQUIPMENT, APPARATUS, AND EXPOSED WIRING AND RACEWAYS RENDERED USELESS DUE TO CHANGES SHALL BE REMOVED. 	BE NEMA 3R RA
2. WHERE EXISTING CEILINGS ARE REMOVED, LUMINAIRES, EXIT SIGNS, AND OTHER	1. CONDUIT SIZES
ELECTRICAL POWER AND SIGNAL APPARATUS MOUNTED TO THE CEILING OR CEILING SUPPORTS, INCLUDING ASSOCIATED RACEWAYS AND WIRING, SHALL BE REMOVED.	ONLY, AND ARE
3. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED SHALL NOT BE USED IN THE NEW WORK, EXCEPT AS INDICATED HEREIN.	 WIRES SHALL BI CONCEALED AN ELECTRO OR HO
4. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND FEEDERS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.	4. RACEWAYS SHA (MAXIMUM LENG
5. CONCEALED WIRING AND RACEWAYS WHICH ARE EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, AND CEILINGS SHALL BE REMOVED. NEW CONCEALED WIRING AND RACEWAYS SERVING EXISTING LOADS PRESENTLY SERVED BY THE REMOVED WIRING AND RACEWAYS	5. COORDINATE EX PANELS WITH T
 SHALL BE PROVIDED. 6. WHERE EXISTING MECHANICAL EQUIPMENT IS REMOVED, ELECTRIC WIRING, RACEWAYS, 	6. PROVIDE A COM COMMUNICATIO
SWITCHES AND STARTERS ASSOCIATED WITH THE EQUIPMENT SHALL BE REMOVED. 7. WHERE EXISTING MECHANICAL EQUIPMENT IS MODIFIED OR RELOCATED, ELECTRICAL	7. JUNCTION BOXE COVERPLATES.
CONNECTIONS TO THE EQUIPMENT SHALL BE MODIFIED TO ADAPT THEM TO THEIR NEW FUNCTION OR LOCATION. C. DISCONNECT SWITCHES:	8. CONNECTORS A INSULATED BUS OUTLET BOXES
1. FUSIBLE TYPE SHALL BE HEAVY DUTY, HORSEPOWER RATED, OF VOLTAGE RATING EQUAL	9. FITTINGS FOR E CONNECTORS A
TO VOLTAGE OF CIRCUIT TO WHICH CONNECTED, AND AMPERE RATING AS INDICATED. NONFUSIBLE TYPE SHALL BE SIMILAR, EXCEPT FOR MOTOR LOADS 2 HP OR SMALLER OR NONMOTOR LOADS CONNECTED TO A 20 A OR SMALLER CIRCUIT MAY BE MOTOR RATED TOGGLE TYPE SWITCHES OR NONAUTOMATIC CIRCUIT BREAKERS, UL LISTED FOR EACH	10. CONNECTORS F INSERTION TYPI
SPECIFIC TYPE OF LOAD. ENCLOSURES SHALL BE NEMA TYPE 1 INDOORS, AND NEMA TYPE 3R WHERE EXPOSED TO WEATHER.	11. CONCEALED RA HANGERS AT 8'
	12. IN GENERAL, TH LAYOUT IS, HOW STRUCTURAL CO MADE WITHOUT INDICATED AND
	13. PULL LINES SHA COILED IN BOX (

ELECTRICAL SPECIFICATIONS

/ICES:

SHALL BE BY THE SAME MANUFACTURER.

ON NORMAL POWER CIRCUITS SHALL BE GRAY IN COLOR.

POLE WALL SWITCHES SHALL BE 277 V, 20 A, COOPER 2221, HUBBELL HBL1221, LEVITON R P&S PS20AC1.

RECEPTACLES SHALL BE 125 V, WITH ONE-PIECE SOLID BRASS MOUNTING STRAP WITH L GROUND CONTACTS, COLORED GRAY FOR USE ON NORMAL POWER CIRCUITS. FACTURER, 20 A: COOPER AH5362, HUBBELL HBL5362, LEVITON 5362, OR P&S 5362A.

FAULT CIRCUIT INTERRUPTERS SHALL BE UL 943-2016 COMPLIANT, 125 V, DUPLEX RAY COLOR FOR USE ON NORMAL POWER CIRCUITS. FACTURER: COOPER TWRVGF20, HUBBELL GFR53525G, LEVITON W7899-TR, OR P&S

RWR. VICES SHALL BE BY THE SAME MANUFACTURER.

ROXIMATE LOCATIONS OF DEVICE OUTLETS ARE INDICATED. THE EXACT LOCATIONS E DETERMINED AT THE BUILDING. THE ARCHITECT RESERVES THE RIGHT TO CHANGE CT LOCATION OF ANY SWITCH, CEILING OR OTHER OUTLET IN ANY ROOM BEFORE IT IS ENTLY INSTALLED.

IG HEIGHTS OF OUTLETS SHALL BE AS INDICATED MEASURED TO THE CENTERLINE OF LET.

DUTLETS AT DIFFERENT LEVELS ARE SHOWN ADJACENT, THEY SHALL BE INSTALLED IN TICAL LINE.

ACLES ON DEDICATED CIRCUITS FOR SPECIFIC ITEMS OF EQUIPMENT SHALL HAVE THE ENT NAME ENGRAVED IN 0.125" HIGH LETTERS ON THE DEVICE PLATE.

/ERPLATES:

LATES FOR FLUSH WALL OUTLETS (SWITCH, RECEPTACLE, TELEPHONE, ETC.) SHALL 302 SATIN FINISH STAINLESS STEEL AS MANUFACTURED BY COOPER, HUBBELL, I, OR P&S.

RPROOF COVERS SHALL BE DIE-CAST ALUMINUM, DESIGNED FOR WET LOCATION TION WHETHER THE ATTACHMENT PLUG IS INSERTED OR REMOVED. COVERS SHALL 3R RATED WHEN USED WITH THE APPROPRIATE WEATHERPROOF OUTLET BOX.

SIZES REFER TO THE STANDARD TRADE SIZES, ARE FOR IDENTIFICATION PURPOSES D ARE NOT ACTUAL DIMENSIONS.

HALL BE INSTALLED IN RACEWAYS UNLESS OTHERWISE SPECIFIED..

LED AND EXPOSED RIGID RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING, OF OR HOT-DIP GALVANIZED STEEL.

YS SHALL BE GALVANIZED FLEXIBLE STEEL CONDUIT FOR CONNECTIONS TO MOTORS M LENGTH 18").

VATE EXACT REQUIREMENTS FOR CONNECTION OF MODULAR OFFICE FURNITURE WITH THE PARTICULAR SUPPLIER, AND MAKE FINAL CONNECTIONS.

A COMPLETE RACEWAY SYSTEM WITH PULL LINES IN CONDUIT FOR DATA AND/OR ICATION OUTLETS.

N BOXES INSTALLED FOR FUTURE USE SHALL BE PROVIDED WITH BLANK

TORS AND COUPLINGS FOR RIGID CONDUIT SHALL BE THREADED GALVANIZED STEEL. ED BUSHINGS SHALL BE INSTALLED ON RIGID CONDUIT CONNECTORS IN CABINETS, BOXES AND PULL BOXES.

FOR ELECTRICAL METALLIC TUBING SHALL BE STEEL TYPE WITH INSULATED THROAT TORS AND SHALL BE CODE APPROVED FOR EACH SPECIFIC APPLICATION.

TORS FOR FLEXIBLE STEEL CONDUIT (NONWATERTIGHT) SHALL BE OF THE TWIST-IN, ON TYPE. WITH INSULATED THROAT.

LED RACEWAYS NOT IN SLABS OR WALLS SHALL BE SUPPORTED WITH CLAMPS ON S AT 8' OR LESS INTERVALS.

RAL, THE CONDUIT INSTALLATION SHALL FOLLOW THE LAYOUT INDICATED. THIS IS, HOWEVER, DIAGRAMMATIC ONLY, AND WHERE CHANGES ARE NECESSARY DUE TO JRAL CONDITIONS, OTHER APPARATUS, OR OTHER CAUSES, SUCH CHANGES SHALL BE THOUT ANY ADDITIONAL COST TO THE OWNER. OFFSETS IN CONDUITS ARE NOT ED AND MUST BE FURNISHED AS REQUIRED.

IES SHALL BE INSTALLED IN EMPTY RACEWAYS. AT EACH END, LEAVE 12" OF SLACK N BOX OR AT END OF RACEWAYS.

G. WIRING:

98%.

- 1. NO WIRE SHALL BE SMALLER THAN #12 AWG UNLESS OTHERWISE
- 2. WIRE AND CABLE SHALL BE ANNEALED SOFT DRAWN COPPER AND
- 3. SPLICES, TAPS AND TERMINATIONS:

SPLICES AND TAPS IN BRANCH CIRCUIT CONDUCTORS, SHALL BE MADE WITH MECHANICAL PRESSURE CONNEG

TERMINATIONS OF STRANDED COPPER CONDUCTORS S COPPER COMPRESSION OR INDENTOR TYPE LUGS OR V

JOINTS SHALL BE COVERED WITH 7 MIL ELECTRICAL TAF WIRING CONNECTIONS, AND 10 MIL ELECTRICAL TAPE C CONNECTORS ON LARGER CABLES. PATENTED PLASTIC BE USED FOR CONNECTORS IF APPROVED BY LOCAL AI JURISDICTION.

- 4. WIRE SHALL BE COLOR-CODED TO INDICATE THE VARIOUS PHASES COLOR-CODING IS IMPRACTICAL, 0.75" WIDE TAPE BANDS SHALL BE
- 5. COLOR-CODING FOR THE VARIOUS SYSTEMS SHALL BE AS FOLLOW

FOR 208/120 V SYSTEM:
PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN

PRESSURE LUGS.

6. INSULATION SHALL BE NEC TYPE THWN/THHN.

H. EQUIPMENT GROUNDS:

- 1. EQUIPMENT, ENCLOSURES AND RACEWAYS SHALL BE GROUNDED.
- 2. UNLESS OTHERWISE INDICATED, FOR CIRCUITS PROTECTED BY DEV RACEWAYS MAY SERVE AS THE GROUNDING MEDIUM. ON CIRCUITS RATED ABOVE 20 A, A GREEN COLORED OR GREEN IDENTIFIED GRC SHALL BE INSTALLED IN THE RACEWAY WITH THE PHASE CONDUCT
- 3. BOND GROUND CONDUCTORS AT ORIGIN OF CIRCUITS, AT INTERME PANELBOARDS OR EQUIPMENT AT TERMINATIONS.
- I. LUMINAIRES:
- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRES.
- 2. PROVIDE SEPARATE NEUTRALS FOR DIMMED CIRCUITS.
- 3. SEE ARCHITECTURAL SECTIONS AND ELEVATIONS FOR EXACT LOCA
- 4. CEILING-MOUNTED LUMINAIRES SHALL BE INDEPENDENTLY SUPPOR STRUCTURE.

J. MISCELLANEOUS:

LUMINAIRES.

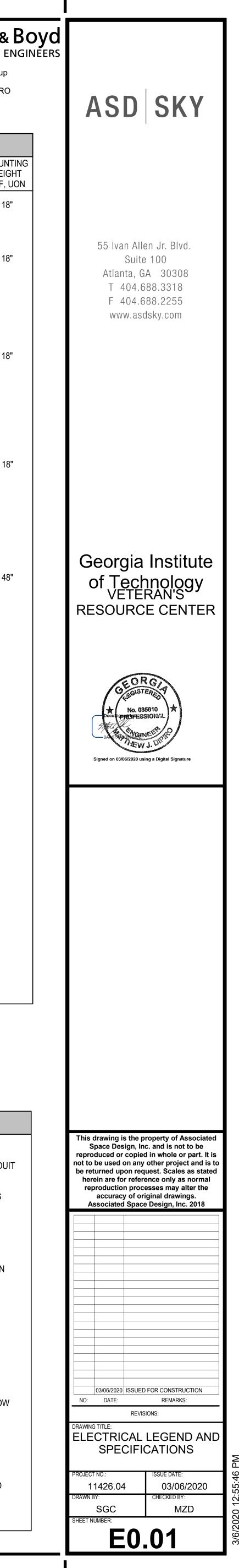
- 1. MAINTAIN, ON SITE, A COMPREHENSIVE SET OF DRAWINGS WITH AS CLEARLY INDICATED IN RED.
- 2. VERIFY CODE COMPLIANCE OF EXISTING CONDITIONS. IF ANY OF T INSTALLATION TO BE UTILIZED IN TENANT CONSTRUCTION IS FOUND VIOLATION OF NATIONAL, STATE OR LOCAL CODES, NOTIFY THE ARC 5 WORKING DAYS.
- 3. VERIFY THE LOAD ON EXISTING CIRCUITS TO BE MODIFIED AND/OR I THE RATINGS OF THE OVERCURRENT PROTECTION DEVICES ARE N AMMETER WHICH GIVES WIDE BANDWIDTH READINGS OF CURREN BE USED. NOTIFY THE ARCHITECT OF ANY OVERLOAD CONDITIONS WORKING DAYS.
- 4. WORK SHALL BE NEAT IN APPEARANCE, PLUMB, LEVEL AND TRUE. UNSATISFACTORY BY THE ARCHITECT SHALL IMMEDIATELY BE REM

Newcomb & Boyd

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			ELECTRICAL LEGEND	
	SYM	BOL	DESCRIPTION	MOUN HEIG AFF, U
E INDICATED. ID HAVE A CONDUCTANCE OF	Φ	P	DUPLEX RECEPTACLE. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER. TYPE DESIGNATED: BLANK - DUPLEX RECEPTACLE S - SWITCHED RECEPTACLE, DETAIL #2, SHEET E3.00.	18
S, #12 AWG THROUGH #8 AWG, ECTORS. S SHALL BE MADE WITH	•	(DOUBLE DUPLEX RECEPTACLE OUTLET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER. BLANK - DOUBLE DUPLEX RECEPTACLE AV - TWO(2) DUPLEX RECEPTACLES IN AUDIO VISUAL BACK BOX. SEE LOW VOLTAGE DRAWINGS. 	18
R WITH MECHANICAL	⊕	•	DUPLEX RECEPTACLE, ABOVE COUNTER. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
APE ON BRANCH CIRCUIT ON MECHANICAL AND INDENT IC CONNECTION COVERS MAY AUTHORITY HAVING	φ	¶₽	GFCI DUPLEX RECEPTACLE. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	18
ES AND NEUTRAL. WHERE	₩		GFCI DUPLEX RECEPTACLE, ABOVE COUNTER. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
BE PROVIDED.	↓	₽ ^{EX}	EXISTING DUPLEX RECEPTACLE TO REMAIN.	
DWS:	J		JUNCTION BOX, WALL-MOUNTED.	
	Œ	}	JUNCTION BOX, WALL-MOUNTED CONNECTION TO MODULAR FURNITURE. PROVIDE FLEXIBLE NON-METALLIC CONNECTION.	18
	J		JUNCTION BOX, ABOVE CEILING.	
			POWER ONLY POKE-THROUGH FITTING, FLUSH. WIREMOLD 4AT OR APPROVED EQUAL.	
		ב	PANELBOARD, RECESSED MOUNTED. DASHED AND GRAY EQUALS EXISTING.	
D. DEVICES RATED 20 A OR LESS, TS PROTECTED BY DEVICES ROUNDING CONDUCTOR CTORS.	D LV	S OS -	SWITCH OR DIMMER SWITCH, WALL-MOUNTED, LOWERCASE LETTERING INDICATES CONTROLLED ZONE, TYPE DESIGNATED: BLANK - SINGLE-POLE, SINGLE-THROW 3 - 3-WAY, SINGLE-POLE, DOUBLE-THROW OS - OCCUPANCY SENSOR TYPE	48
MEDIATE PULL BOXES, AND TO		\vdash	LV - LOW-VOLTAGE TYPE CONTACTS, NORMALLY OPEN.	
		Ł│	CONTACTS, NORMALLY CLOSED.	
CT LOCATIONS OF			COIL (C-LIGHTING CONTACTOR; R-CONTROL RELAY; M-MOTOR CONTACTOR).	
OCATIONS OF WALL-MOUNTED	03/P	9/V9	LIGHTING CONTROL SENSOR DEVICE, OCCUPANCY SENSOR, PHOTOSENSOR, VACANCY SENSOR. WHERE NO LETTER IS SHOWN, SENSOR(S) SHALL CONTROL ALL LUMINAIRES IN CORRESPONDING ROOM. (D = DAMP RESISTANT, P = PENDANT- MOUNT PER MANUFACTURER'S RECOMMENDATIONS)	
		D	LINEAR LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	
AS-BUILT CONDITIONS THE EXISTING ELECTRICAL	Φ_{A}	↓ A	PENDANT LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.	
UND TO BE DEFECTIVE OR IN ARCHITECT IN WRITING WITHIN OR REUSED TO ENSURE THAT E NOT EXCEEDED. A TRUE-RMS NT WITH HARMONICS SHALL IS IN WRITING WITHIN 5	×	⊢⊗ _X	EXIT LIGHT, CEILING-, PENDANT, OR WALL-MOUNTED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ARROW AND FACE REQUIREMENTS. ELECTRICAL DRAWINGS REFERENCE LOCATIONS AND INDICATED CODE REQUIRED CIRCUIT INFORMATION. LETTER INDICATES TYPE, SEE SCHEDULE.	
E. ANY WORK DEEMED EMOVED AND REPLACED.				

ABBREVIATIONS									
AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR	HPS	HIGH PRESSURE SODIUM						
ABV	ABOVE	IG	ISOLATED GROUND						
AC	ALTERNATING CURRENT	IMC	INTERMEDIATE METAL CONDUIT						
	ARCHITECT/ARCHITECTURAL		INVERTER						
A/V		JB	JUNCTION BOX						
BEL			THOUSAND CIRCULAR MILLS						
	BELOW FLOOR	-	METAL-CLAD CABLE						
BFC	BELOW FINISHED CEILING	MCC							
BM			NORMALLY CLOSED						
С	CONDUIT		NONFUSIBLE						
CB	CIRCUIT BREAKER	NO							
CKT	CIRCUIT		ON CENTER						
CLG	CEILING		OVERCURRENT PROTECTION						
COL		-	PHOTOCELL						
	CONNECT/CONNECTION	PH OR Ø							
CONT			PILOT LIGHT						
CTE	CONNECT TO EXISTING		PANEL						
DC	DIRECT CURRENT		PHOTO-VOLTAIC						
DN	DOWN	-	REMOTE CONTROL						
EC			RECEPTACLE						
			RELOCATE						
EMT	ELECTRICAL METALLIC TUBING		REMOVE						
ENT	ELECTRICAL NONMETALLIC TUBING								
			SPLIT CIRCUIT						
ETR									
EXP		SPDT							
	RIGID METAL CONDUIT		SHUNT STRIP						
F		SW							
FA	FIRE ALARM LIGHTING CONTROL MODULE	TELE	TELEPHONE TIGHT TO STRUCTURE						
			UNDERGROUND						
	LUMINAIRE FLOOR		WEATHER PROOF						
G	GROUND		TRANSFORMER						
GFP			UNLESS OTHERWISE NOTED						
GR	GRADE	UUN	UNLESS OTTERWISE NOTED						
	HIGH INTENSITY DISCHARGE								
HOA									
10A									



PART 1 GENERAL

- 1. QUALITY ASSURANCE A. CONFORM TO THE FOLLOWING a. NFPA 70 - 2017, NATIONAL ELECTRICAL CODE. b. NFPA 72 - 2019, NATIONAL FIRE ALARM AND SIGNALING CODE. c. GEORGIA TECH YELLOW BOOK
- SERVICE PROVIDER SHALL BE LOCATED WITHIN 60 MILES OF THE PROJECT SITE AND SHALL BE CAPABLE OF PROVIDING ON-SITE RESPONSE TO EMERGENCY CALLS WITHIN 8 HOURS. THE SERVICE PROVIDER SHALL PERFORM ALL FUNCTIONS RELATING TO SUBMITTAL LEAST 2 INDIVIDUALS WHO HAVE BEEN FACTORY CERTIFIED TO CURRENT LEVEL III OR IV CERTIFICATIONS IN THE FIRE ALARM SUBFIELD BY THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING

TECHNOLOGIES (NICET).

- 2. SUBMITTALS SHALL INCLUDE A BILL OF MATERIALS, PRODUCT DATA SHEETS, INSTALLATION DRAWINGS, AND CALCULATIONS. A. DRAWINGS SHALL BE PREPARED USING AUTOCAD AND SHALL SHOW EACH FLOOR IN PLAN VIEW TO A SCALE NOT SMALLER THAN 1/8" = 1'-0" IN PLAN VIEWS INDICATE THE LOCATION OF DEVICES, APPROXIMATE RACEWAY ROUTING BETWEEN DEVICES, CONDUCTOR REQUIREMENTS IN EACH SECTION OF RACEWAY, THE ADDRESS OF SIGNALING LINE CIRCUIT (SLC) DEVICES, AND THE INTENSITY OF STROBE LIGHTS. PROVIDE HOOK-UP DETAILS FOR FIRE ALARM INITIATING AND NOTIFICATION DEVICES AND INDICATE THE WIRING COLOR CODE TO BE USED. INCLUDE A SYSTEM OPERATING SEQUENCE IN THE FORM OF A NARRATIVE OR AN I/O SCHEDULE. PROVIDE CONTROL PANEL DIAGRAMS SHOWING THE ARRANGEMENT OF MODULAR COMPONENTS AND TERMINAL CONNECTIONS FOR EXTERNAL WIRING.
- B. PRODUCT DATA SHEETS SHALL BE SUBMITTED FOR HARDWARE, DEVICES, CABLES, AND WIRE AND SHALL BE MARKED TO INDICATE THE MODEL NUMBERS AND APPLICABLE OPTIONS. SUBMITTALS SHALL INCLUDE A COMPLETE ADDRESSABLE POINT LIST WITH CORRESPONDING MESSAGES. FOR EACH SLC, INDICATE THE INITIAL NUMBER OF POINTS CONNECTED. THE CAPACITY OF THE CIRCUIT. AND THE SPARE CAPACITY.
- 3. SLEEVES A. WALL SLEEVES SHALL BE GALVANIZED RIGID METAL CONDUIT OR ELECTRICAL METALLIC TUBING. B. FOR FLOOR SLABS ABOVE GRADE, PLASTIC CORE FORM BLOCK-OUTS SHALL BE USED.
- 4. ACCESS PANELS BUILDING: A. WHERE FIRE DETECTION AND ALARM WORK IS CONCEALED BY WALLS OR CEILINGS, OR IS INACCESSIBLE, PROVIDE AN ACCESS PANEL TO PROVIDE ACCESS FOR SERVICE AND MAINTENANCE
- B. FIRE DETECTION AND ALARM WORK LOCATED ABOVE CEILINGS IS IS ARRANGED FOR ACCESS TO THE EQUIPMENT.
- C. FIRE RATED ACCESS PANELS SHALL BE PROVIDED IN FIRE BARRIERS. WITH RATINGS TO MATCH THE CONSTRUCTION FIRE RATING. SHALL ALLOW FOR SERVICE AND MAINTENANCE OF THE INTENDED
- EQUIPMENT. D. INSTALLATION OF ACCESS PANELS IS SPECIFIED UNDER ANOTHER DIVISION.
- 5. IDENTIFICATION MATERIALS A. CONDUIT MARKERS: SELF-ADHESIVE VINYL TAPE, MINIMUM 3 MIL THICK X THE DRAWINGS.
- B. TAGS: PREPRINTED OR PARTIALLY PREPRINTED ACCIDENT PREVENTION AND OPERATIONAL TAGS, ON PLASTICIZED CARD STOCK WITH MATTE FINISH FOR WRITING, APPROXIMATELY 3.25" X 5.625", WITH BRASS GROMMETS AND WIRE FASTENERS, AND APPROPRIATE WORDING. C. SIGNS: 14" X 10" SIZE, 0.04" THICK ALUMINUM BASE WITH BAKED ENAMEL
- 6. PROTECTION OF EQUIPMENT AND MATERIALS DURING CONSTRUCTION A. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE OR DETERIORATION
- DURING CONSTRUCTION. B. STORE EQUIPMENT AND MATERIAL UNDER COVER, AND OFF THE GROUND OR FLOORS EXPOSED TO RAIN. a. PROVIDE DUST AND DEBRIS PROTECTION FOR DEVICES AND EQUIPMENT OPERATED DURING CONSTRUCTION.
- 7. EXISTING EQUIPMENT AND SYSTEMS A. GENERAL:
- a. THE EXISTING INSTALLATION SHALL REMAIN AS IS EXCEPT AS PERFORM WORK TO TIE IN THE NEW WORK WITH THE EXISTING
- BUILDING AND SYSTEMS
- RACEWAYS RENDERED USELESS DUE TO CHANGES. c. WHERE EXISTING CEILINGS ARE REMOVED, REMOVE ELECTRICAL AND
- SUPPORTS, INCLUDING ASSOCIATED RACEWAYS AND WIRING.
- ACCEPTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

FIRE ALARM SPECIFICATIONS

B. FIRE ALARM EQUIPMENT AND DEVICES SHALL BE FURNISHED THROUGH A SERVICE PROVIDER THAT IS A FACTORY-AUTHORIZED DISTRIBUTOR OR DIRECT FACTORY OFFICE OF THE EQUIPMENT MANUFACTURER. THIS

PREPARATION. SYSTEM PROGRAMMING. FINAL WIRING CONNECTIONS AT CONTROL PANELS, SYSTEM TESTING AND CERTIFICATION, AND ON-SITE OPERATOR TRAINING. THE SERVICE PROVIDER SHALL EMPLOY AT PROGRAM AND MAINTAIN THE FIRE ALARM EQUIPMENT AND WHO HOLD

CONSIDERED ACCESSIBLE IF THE CEILING IS THE ACCESSIBLE TYPE AND

ACCESS DOORS PROVIDING ACCESS TO EQUIPMENT ACCESS DOORS

1.5" WIDE, COLOR-CODED ORANGE UNLESS OTHERWISE INDICATED ON

FINISH FOR INDOOR OR OUTDOOR USE.

OTHERWISE INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN. WORK AND TO ADAPT THE EXISTING WORK TO THE CHANGES IN THE

b. REMOVE EQUIPMENT, APPARATUS, AND EXPOSED WIRING AND

SIGNAL APPARATUS MOUNTED TO THE CEILING OR CEILING d. EXISTING DEVICES AND EQUIPMENT WHICH ARE REMOVED AND NOT REUSED IN THE NEW WORK SHALL BE TURNED OVER TO THE OWNER. e. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED AND NOT

- f. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED SHALL NOT BE USED IN THE NEW WORK, EXCEPT AS SPECIFIED HEREIN. g. WHERE EXISTING RACEWAYS AND EQUIPMENT ARE INDICATED ON
- THE DRAWINGS, SIZE AND LOCATION SHALL BE VERIFIED PRIOR TO BIDDING.
- h. SHOULD THE INSTALLATION OF NEW DUCTWORK, PIPING OR OTHER EQUIPMENT CONFLICT WITH EXISTING DEVICES, SHIFT THE DEVICES AND MAKE CHANGES IN THE FIRE DETECTION AND ALARM INSTALLATION TO REMEDY THE CONFLICTS, AS APPROVED BY THE
- ARCHITECT AND AT NO EXTRA COST i. PROVIDE CIRCUIT CONTINUITY FOR EXISTING WIRING DEVICES AND EQUIPMENT OUTSIDE THE RENOVATION AREA SERVED FROM OR THROUGH THE RENOVATION AREA.
- B. WIRING AND RACEWAYS: a. REMOVE CONCEALED WIRING AND RACEWAYS WHICH ARE EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, AND CEILINGS. PROVIDE NEW CONCEALED WIRING AND RACEWAYS TO SERVE EXISTING LOADS PRESENTLY SERVED BY THE REMOVED WIRING
- AND RACEWAYS. b. SLEEVES LEFT OPEN BY REMOVAL OF CONDUIT OR RACEWAYS SHALL BE CUT FLUSH WITH THE FINISHED SLAB, AND FILLED WITH GROUT FLUSH WITH BOTH SIDES OF SLAB.
- c. CONCEALED RACEWAYS IN MASONRY WALLS RENDERED USELESS BY REVISIONS SHALL BE CUT FLUSH WITH WALL SURFACE AND SEALED WITH GROUT. C. MECHANICAL EQUIPMENT:
- a. WHERE EXISTING MECHANICAL EQUIPMENT IS REMOVED, REMOVE FIRE DETECTION AND ALARM DEVICES ASSOCIATED WITH THE EQUIPMENT
- b. WHERE EXISTING MECHANICAL EQUIPMENT IS MODIFIED OR RELOCATED, MODIFY THE FIRE DETECTION AND ALARM CONNECTIONS TO THE EQUIPMENT TO ADAPT IT TO ITS NEW FUNCTION OR LOCATION.

PART 2 PRODUCTS

1. MANUAL FIRE ALARM PULL STATIONS A. MANUAL FIRE ALARM PULL STATIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF UL 38-2008. STATIONS SHALL BE ADDRESSABLE, DOUBLE-ACTION TYPE INSTALLED ON SEMIFLUSH MOUNTED OUTLET BOXES. THE HOUSING SHALL BE FINISHED IN RED, WITH RAISED LETTER OPERATING INSTRUCTIONS OF CONTRASTING COLOR. STATIONS REQUIRING THE BREAKING OF GLASS OR PLASTIC PANELS FOR OPERATION ARE NOT ACCEPTABLE. THE USE OF A KEY OR WRENCH SHALL BE REQUIRED TO RESET THE STATION. STATIONS SHALL HAVE A SEPARATE SCREW TERMINAL FOR EACH CONDUCTOR. SURFACE- MOUNTED BOXES SHALL BE PAINTED THE SAME COLOR AS THE MANUAL STATIONS.

2. AUTOMATIC FIRE DETECTING DEVICES:

- A. BASES FOR AUTOMATIC FIRE DETECTION DEVICES SHALL HAVE SCREW TERMINALS FOR WIRING CONNECTIONS. B. SMOKE DETECTORS INCLUDE AREA TYPE DEVICES. AREA DETECTORS
- SHALL BE POINT-ADDRESSABLE, DYNAMICALLY SUPERVISED (ANALOG) TYPE LISTED IN ACCORDANCE WITH UL 268-2016. AREA TYPE SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE. DETECTORS SHALL CONTAIN A VISIBLE LED WHICH SHALL BE ILLUMINATED WHEN THE UNIT IS IN ALARM CONDITION. DETECTORS SHALL BE PLUG-IN TYPE IN WHICH THE DETECTOR BASE CONTAINS TERMINALS FOR MAKING WIRING CONNECTIONS.
- C. PHOTOELECTRIC SMOKE DETECTORS SHALL OPERATE ON A LIGHT SCATTERING PRINCIPLE USING AN LED LIGHT SOURCE. FAILURE OF THE LED SHALL NOT CAUSE AN ALARM CONDITION. DETECTORS SHALL HAVE AN OBSCURATION RATING WITHIN THE LIMITS PRESCRIBED BY UL 268-2016.
- D. DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72. DETECTORS SHALL BE AT LEAST 3' FROM SUPPLY DIFFUSERS. DURING CONSTRUCTION, SMOKE DETECTORS SHALL BE PROVIDED WITH PROTECTIVE COVERS TO PREVENT THE ENTRY OF DUST AND DEBRIS. COVERS SHALL BE REMOVED PRIOR TO SYSTEM ACCEPTANCE TESTING.

1. SMOKE DETECTORS ON SUSPENDED ACOUSTICAL TILE CEILINGS SHALL BE LOCATED IN THE CENTER OF THE TILE AND SHALL BE SECURED WITH A TILE BRIDGE.

3. NOTIFICATION APPLIANCES A. FIRE ALARM SPEAKERS

- a. SPEAKERS SHALL BE FLUSH-MOUNTED ON THE CEILING AND WALL. PROVIDE A MATCHING BACKBOX WITH ENAMEL FINISH FOR SURFACE-MOUNTED UNITS. SPEAKERS SHALL BE 4" DIAMETER, AND SHALL HAVE A FREQUENCY RESPONSE OF 400 HZ TO 4000 HZ AND MATCHING TRANSFORMER WITH MULTIPLE POWER TAPS IN THE RANGE OF 0.25 W TO 2 W. SPEAKERS SHALL PRODUCE A MINIMUM SOUND RATING OF 84 DBA AT 10' AT 12W. CEILING-MOUNTED DEVICES SHALL INCLUDE A MOISTURE-RESISTANT PAPER CONE SPEAKER, SPEAKER ENCLOSURE, AND ROUND PERFORATED BAFFLE PLATE WITH WHITE ENAMEL FINISH. WALL- MOUNTED SPEAKERS SHALL INCLUDE A SQUARE PERFORATED GRILLE WITH WHITE ENAMEL FINISH. THE SPEAKERS AND AMPLIFIERS SHALL BE UL LISTED TO BROADCAST A 520 HERTZ TONE. B. VISIBLE NOTIFICATION
- a. APPLIANCES SHALL BE STROBE LIGHTS CONFORMING TO UL 1971-2002. STROBES SHALL HAVE A XENON FLASH TUBE AND CLEAR OPTIC LENS AND IDENTIFICATION "FIRE" IN A CONTRASTING COLOR. STROBE INTENSITY SHALL BE FIELD SELECTABLE WITH A RANGE OF 15 CANDELA TO 95 CANDELA. STROBES SHALL FLASH AT APPROXIMATELY 1 FLASH PER S. STROBES SHALL BE SEMIFLUSH-MOUNTED ON THE WALLS AND CEILINGS. APPLIANCES SHALL INCLUDE A WHITE FACEPLATE. STROBE LIGHTS ON A CIRCUIT SHALL FLASH AT A SYNCHRONIZED RATE.
- C. VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED WITH THE BOTTOM OF THE STROBE LENS 6'-8" ABOVE THE FINISHED FLOOR OR ON THE CEILING.

- 4. COMBINATION AUDIBLE/VISIBLE NOTIFICATION APPLIANCES: SINGLE FACTORY-ASSEMBLED ENCLOSURE
- B. WALL MOUNTED COMBINATION AUDIBLE/VISIBLE APPLIANCES

PART 3 EXECUTION

- 1. MANUAL FIRE ALARM PULL STATIONS A. MOUNT MANUAL PULL STATIONS WITH THE CENTERLINE 4' ABOVE FINISHED FLOOR.
- 2. AUTOMATIC FIRE DETECTING DEVICES: A. AREA SMOKE DETECTORS:
 - ACCEPTANCE TESTING.
- SHALL BE SECURED WITH A TILE BRIDGE. С. .
- 3. NOTIFICATION APPLIANCES
- SHALL BE GOVERNED BY THE STROBE LIGHT.

A. COMBINATION AUDIBLE/VISIBLE NOTIFICATION APPLIANCES SHALL PROVIDE THE SAME PERFORMANCE CHARACTERISTICS AS SPECIFIED HEREIN FOR INDIVIDUAL UNITS, EXCEPT THAT THEY SHALL MOUNT IN A

MOUNTING HEIGHT SHALL BE GOVERNED BY THE STROBE LIGHT.

a. DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72. DETECTORS SHALL BE AT LEAST 3' FROM SUPPLY DIFFUSERS. DURING CONSTRUCTION, SMOKE DETECTORS SHALL BE PROVIDED WITH PROTECTIVE COVERS TO PREVENT THE ENTRY OF DUST AND DEBRIS. COVERS SHALL BE REMOVED PRIOR TO SYSTEM

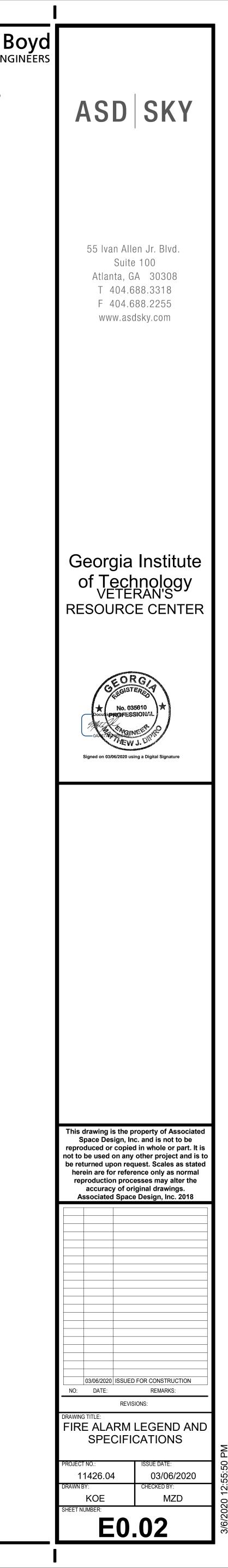
b. SMOKE DETECTORS ON SUSPENDED ACOUSTICAL TILE CEILINGS SHALL BE LOCATED IN THE CENTER OF THE TILE AND

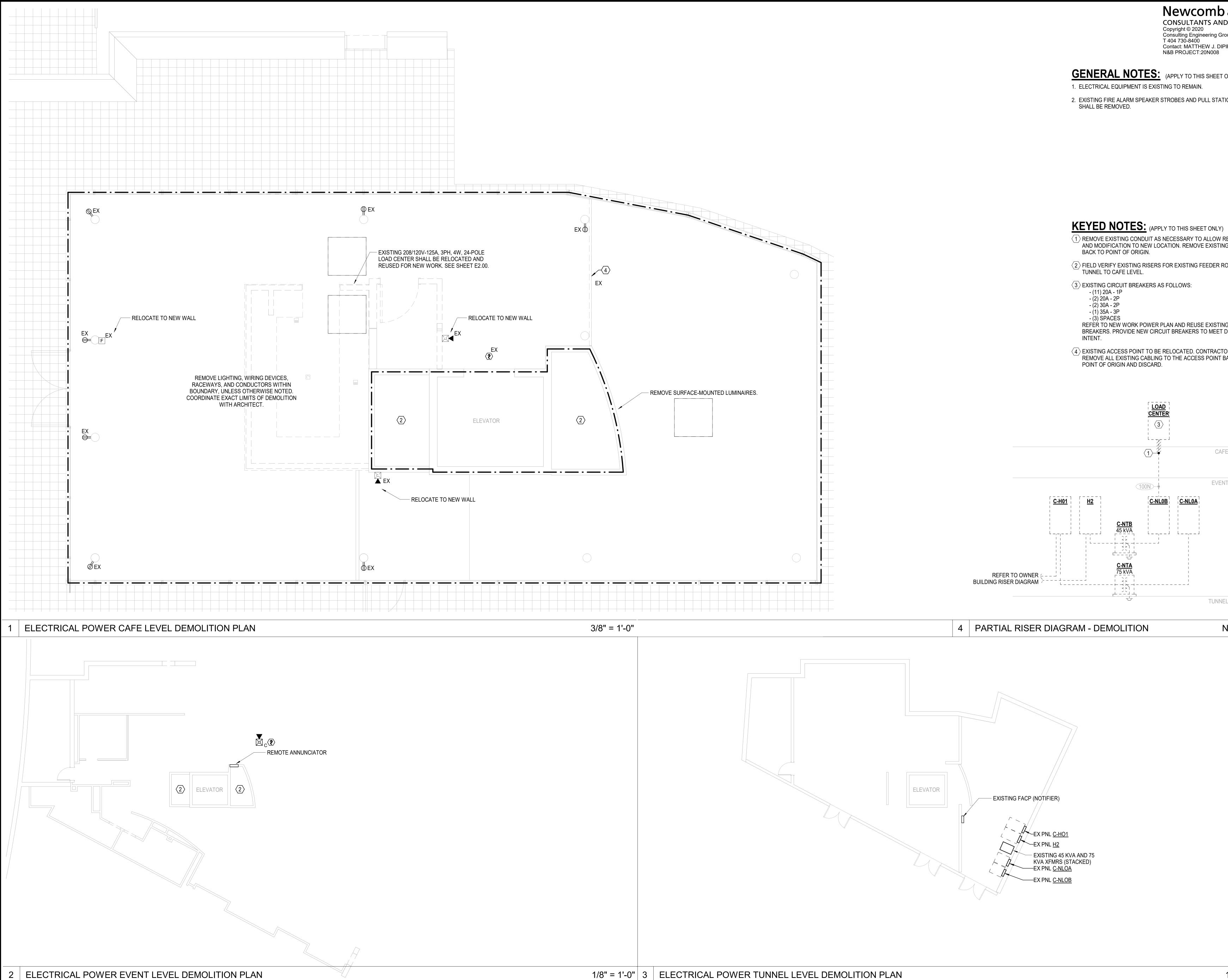
A. VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED WITH THE BOTTOM OF THE STROBE LENS 6'-8" ABOVE THE FINISHED FLOOR. FOR COMBINATION AUDIBLE/VISIBLE APPLIANCES, MOUNTING HEIGHT

B. NOTIFICATION APPLIANCES ON SUSPENDED ACOUSTICAL TILE CEILINGS SHALL BE LOCATED IN THE CENTER OF THE TILE AND SHALL BE SECURED WITH A TILE BRIDGE.

FIRE ALARM LEGEND

- SPEAKER STROBE CEILING MOUNTED
- F MANUAL PULL STATION
- **(?)** SMOKE DETECTOR
- SMOKE DETECTOR ELEVATOR RECALL
- HEAT DETECTOR
- W WATTS
- CD CANDELA
- EX EXISTING





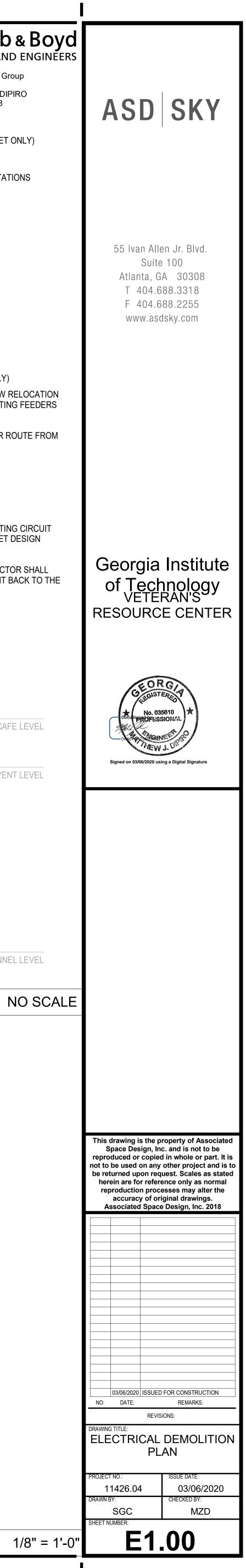
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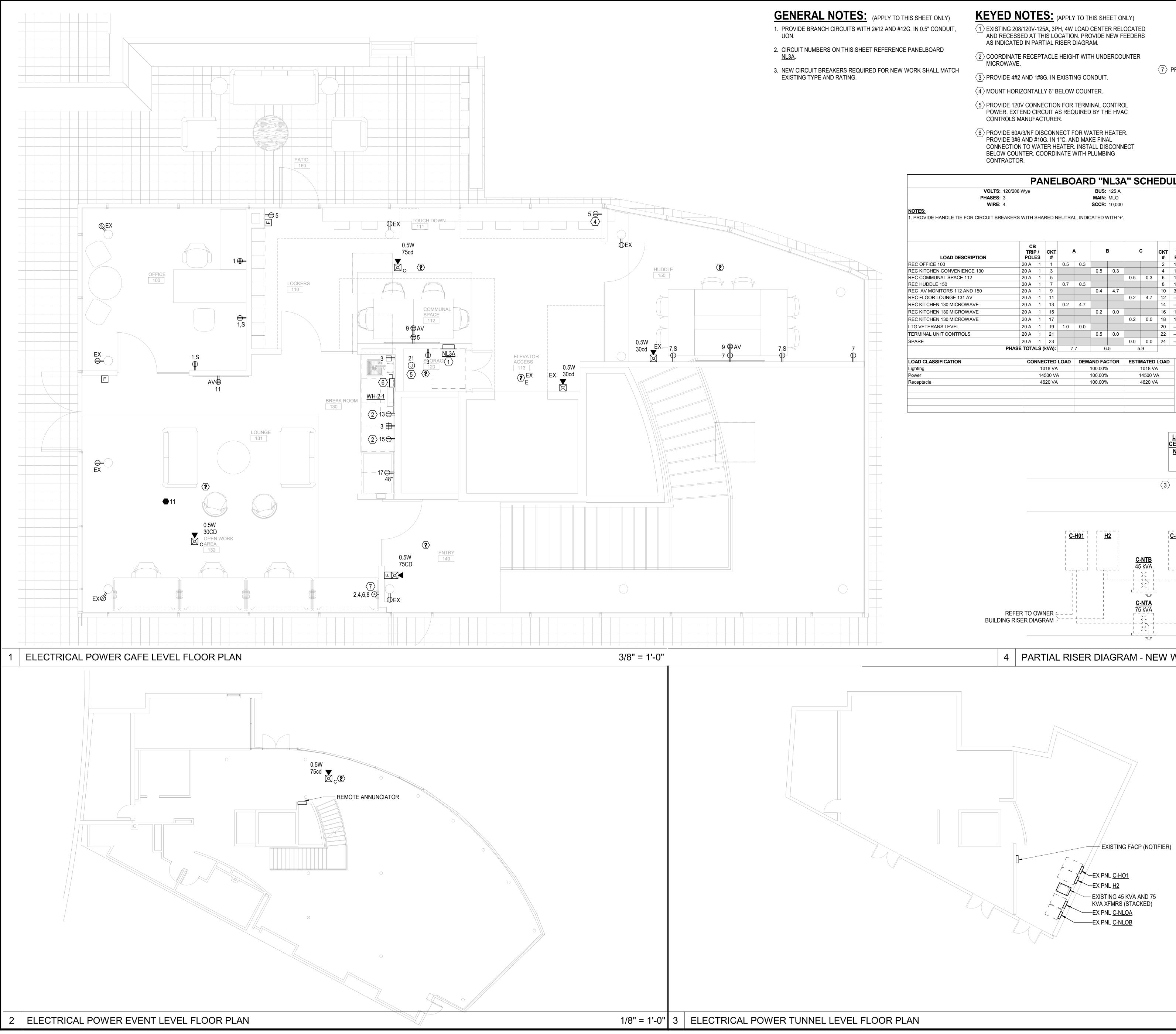
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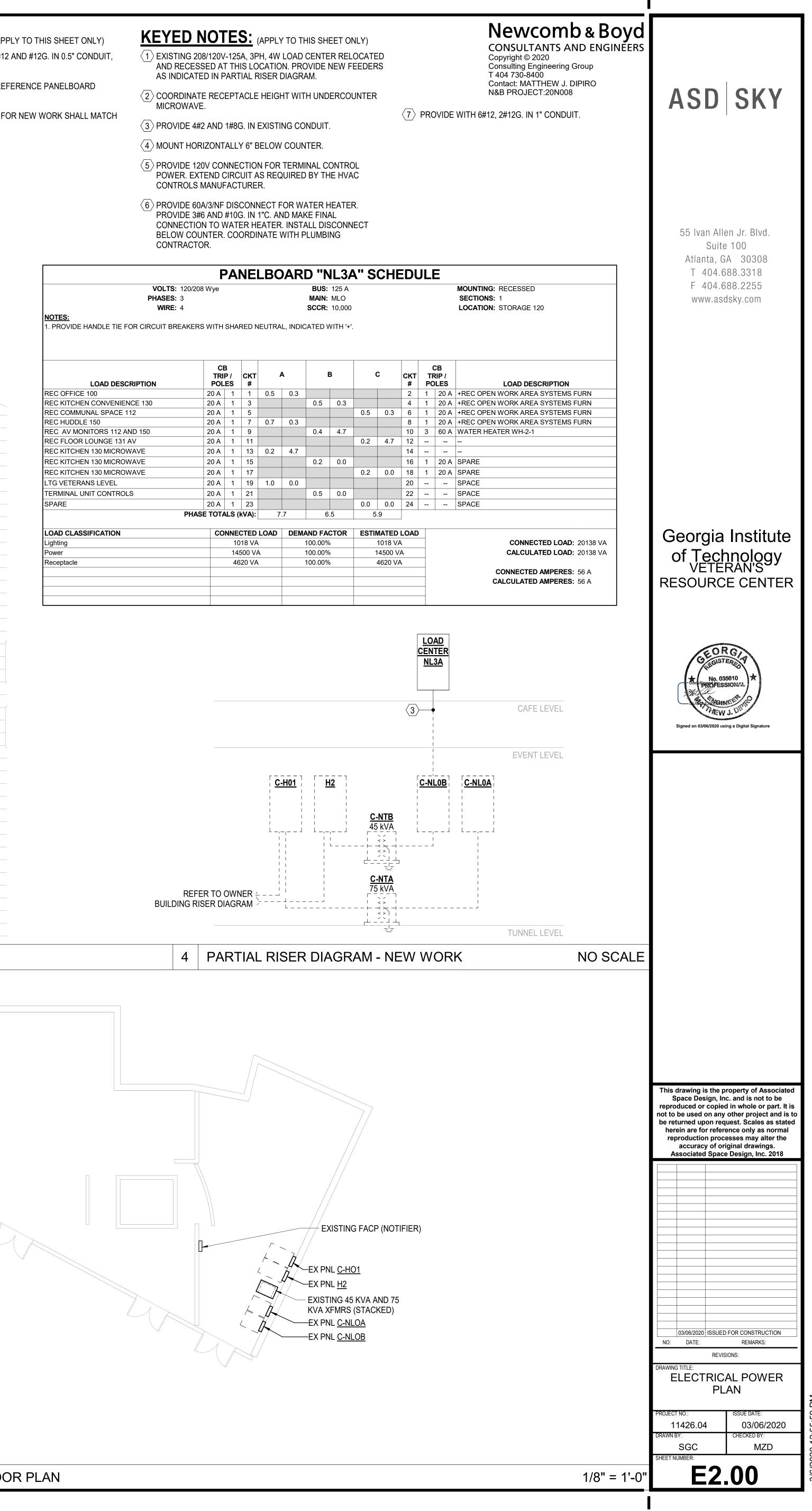
GENERAL NOTES: (APPLY TO THIS SHEET ONLY)

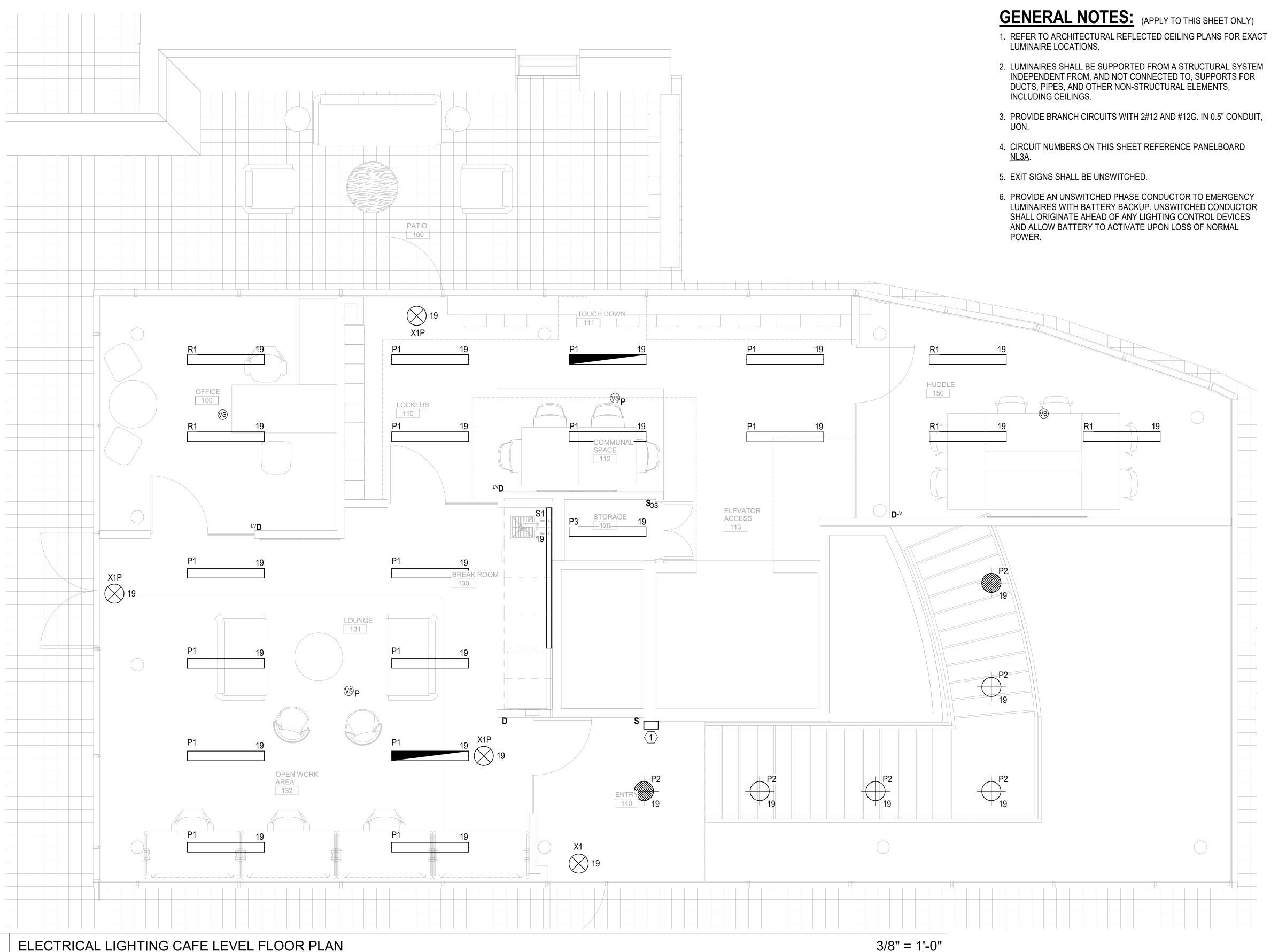
- 1. ELECTRICAL EQUIPMENT IS EXISTING TO REMAIN.
- 2. EXISTING FIRE ALARM SPEAKER STROBES AND PULL STATIONS SHALL BE REMOVED.

(1) REMOVE EXISTING CONDUIT AS NECESSARY TO ALLOW RELOCATION AND MODIFICATION TO NEW LOCATION. REMOVE EXISTING FEEDERS BACK TO POINT OF ORIGIN. $\langle \underline{2} \rangle$ FIELD VERIFY EXISTING RISERS FOR EXISTING FEEDER ROUTE FROM TUNNEL TO CAFE LEVEL. (3) EXISTING CIRCUIT BREAKERS AS FOLLOWS:
 - (11) 20A - 1P
 - (2) 20A - 2P - (2) 30A - 2P - (1) 35A - 3P - (3) SPACES REFÈR TO NEW WORK POWER PLAN AND REUSE EXISTING CIRCUIT BREAKERS. PROVIDE NEW CIRCUIT BREAKERS TO MEET DESIGN INTENT. 4 EXISTING ACCESS POINT TO BE RELOCATED. CONTRACTOR SHALL REMOVE ALL EXISTING CABLING TO THE ACCESS POINT BACK TO THE POINT OF ORIGIN AND DISCARD. LOAD CENTER CAFE LEVEL EVENT LEVEL 100N-<u>C-H01</u> <u>H2</u> C-NLOB C-NTB L__,__J L__,__J <u>C-NTA</u> 75 kVA _ _ _ _ _ _ _ _ _ _ TUNNEL LEVEL 4 PARTIAL RISER DIAGRAM - DEMOLITION





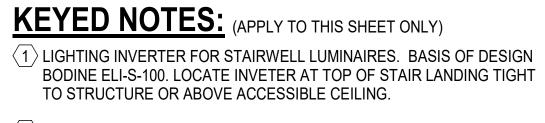




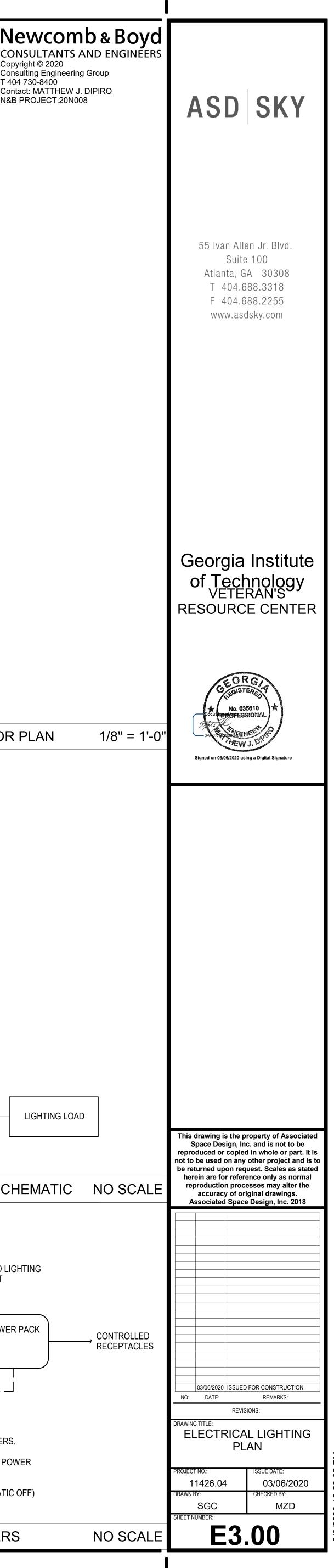
ELECTRICAL LIGHTING CAFE LEVEL FLOOR PLAN

	LUMINAIRE SCHEDULE												
S		SOURCE INFORMATION			ELECTRICAL INFORMATION								
TYPE	MANUFACTURER	MODEL	TYPE	MIN CRI	LUMEN OUTPUT	COLOR TEMP (K)	VOLTAGE	LOAD (W)	LOAD (W/FT)	POWER SOURCE	MOUNTING	FINISH	DESCRIPTION
P1	LUMENWERX	VIA1.5PDI	LED	80	2000 UP / 2000 DOWN	3500	UNV	48		INTEGRAL DRIVER	PENDANT, PER ARCH	MATTE WHITE	4' x 1.5" WIDE LINEAR LUMINAIRE WITH FLUSH LENS. PROVIDE WITH AIR CRAFT CABLING. PROVIDE UL924 LISTED 90-MINUTE INTEGRAL BATTERY PACK FOR EMERGENCY LUMINAIRES.
P2	ILLUMINATIONS	BOLA SPHERE	LED	95	1550	2700	120	20		INTEGRAL DRIVER	PENDANT, PER ARCH	CHROME	12" GLOBE PENDANT LUMINAIRE.
P3	COLUMBIA LIGHTING	CSL	LED	80	4000	3500	UNV	40		INTEGRAL DRIVER	PENDANT, BOTTOM @ 8'-0" AFF	WHITE	4' INDUSTRIAL STRIP LUMINAIRE, CHAIN HUNG.
R1	LUMENWERX	VIA1.5R	LED	80	2000	3500	UNV	27		INTEGRAL DRIVER	CEILING, RECESSED	MATTE WHITE	4' x 1.5" WIDE LINEAR LUMINAIRE WITH FLUSH LENS.
R2	PRESCOLITE	LTR-4RD	LED	80	600	3500	UNV	8		INTEGRAL DRIVER	CEILING, RECESSED		R 4" ROUND DOWNLIGHT. RECESSED DEPTH 5". PROVIDE EMERGENCY E BATTERY PACK FOR LUMINAIRES INDICATED ON FLOOR PLAN.
S1	KELVIX	RX	LED	80	250 FT	3500	UNV		3	INTEGRAL DRIVER	CEILING, RECESSED	ALUMINUM	LED TAPE LUMINAIRE SURFACE-MOUNT TO UNDERCABINET. PROVIDE WITH ALUMINUM CHANNEL HOUSING WITH FLAT ACRYLIC LENS. LUMINAIRE SHAL BE FIELD CUTABLE.
X1	COMPASS	CEL	LED				120	5			WALL OR CEILING		DECORATIVE EDGE LIT ACRYLIC PANEL EXIT SIGN WITH GREEN LETTERS AND MIRROR BACKGROUND, UNIVERSAL ARROWS, AND RECESSED MOUNTING. LUMINAIRE SHALL COMPLY WITH NFPA 101-2015 SECTION 7.10. VISIBLE LED LAMPS ARE NOT ACCEPTABLE. PROVIDE WITH 90-MINUTE INTEGRAL BATTERY PACK.
X1P	COMPASS	CEL	LED				120	5			PENDANT, PER ARCH		SAME AS TYPE 'X1' EXCEPT PROVIDE WITH PENDANT MOUNTED ACCESSORIES.

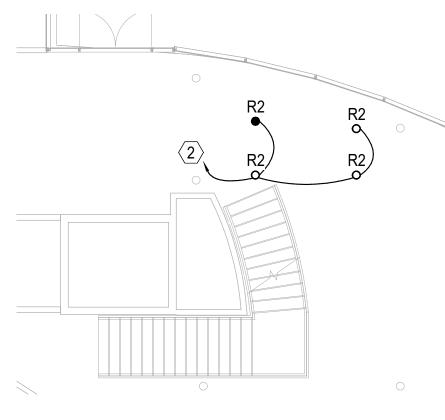
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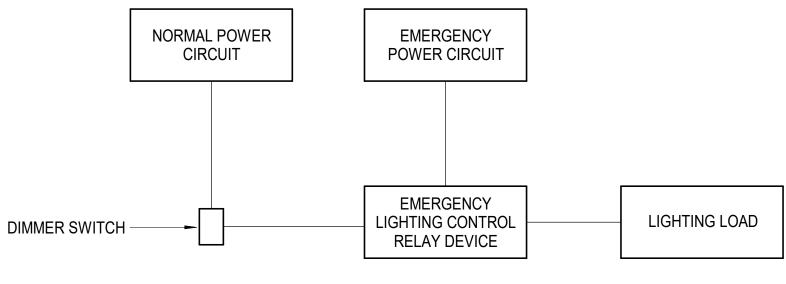
 $\langle 2 \rangle$ CONNECT NEW LUMINAIRES TO NEAREST NORMAL POWER LIGHTING CIRCUIT ON EVENT LEVEL.

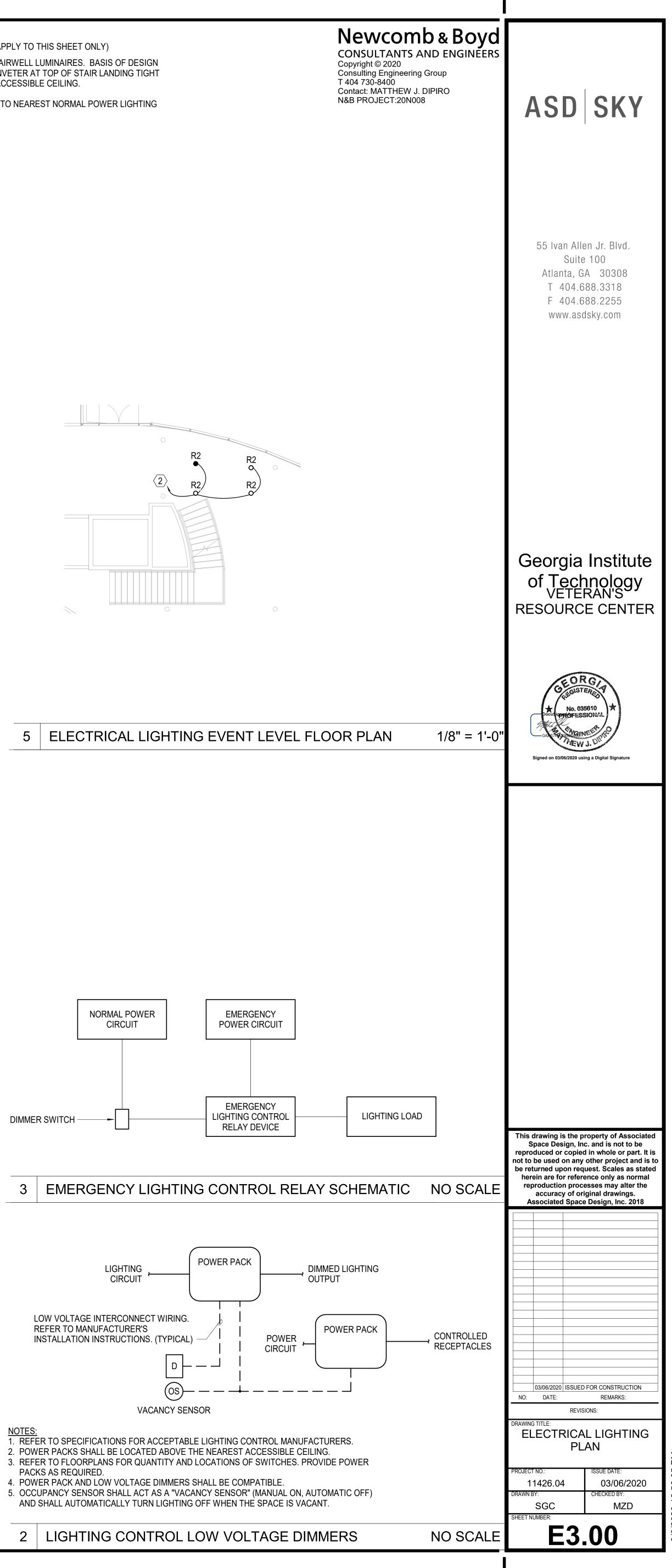












- 2. POWER PACKS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING.
- PACKS AS REQUIRED.
- 5. OCCUPANCY SENSOR SHALL ACT AS A "VACANCY SENSOR" (MANUAL ON, AUTOMATIC OFF) AND SHALL AUTOMATICALLY TURN LIGHTING OFF WHEN THE SPACE IS VACANT.

RAWING	NAME	BACKBOX	MOUNTING HEIGHT AFF	CONDUIT		TERMINATION	QL)rt tyf Jantitie			CABLING		DEVICE NOTES	GENERAL NOTES
SYMBOL		SIZE		SIZE	TYPE		VOICE	DATA	COAX	TYPE	COLOR	COLOR		
∕ #D	UNIVERSAL DATA OUTLET	2G	18"	1"	SINGLE GANG 6-PORT	RJ-45		#		CAT 5e	BLUE	YELLOW	# INDICATED ON FLOOR PLANS REPRESENTS QUANTITY OF DATA AND VOICE CABLE DROPS REQUIRED. WHITE FOR VOICE	1. ALL INFORMATION IS TYPICAL AS INDICATED IN THIS MATRIX, UON.
₩ V/#D	STANDARD VOICE AND DATA OUTLET	2G	18"	1"	SINGLE GANG 6-PORT	RJ-45	#	#		CAT 5e	WHITE / BLUE	WHITE / YELLOW	AND BLUE FOR DATA CABLING.	 ALL OUTLETS SHALL BE LOCATED ADJACENT TO POWER RECEPTACLES WHERE APPLICABLE. FINAL HEIGHT AND MOUNTING LOCATIONS SHALL BE
<] TV	TV OUTLET	1G	SEE NOTE	1"	SINGLE GANG 6-PORT	RJ-45 / F-TYPE		2	1	CAT 5e / RG-6	BLUE / WHITE	YELLOW / WHITE	PROVIDE AV DATA TERMINATIONS INSIDE OF AV WALL BOX. STUB CONDUIT INTO AV WALL BOX. REFER TO AV DRAWINGS FOR MORE INFORMATION.	 COORDINATED WITH THE ARCHITECTURAL ELEVATIONS. 4. ALL OUTLET CONDUITS SHALL BE ROUTED TO THE NEAREST ACCESSIBLE CEILING SPACE, UON.
	DATA OUTLET FOR CEILING MOUNTED WIRELESS ACCESS POINT	2G	CEILING	1"	MPTL MALE PLUG	RJ-45		1		CAT 5e	BLUE	YELLOW	PROVIDE 30' SERVICE LOOP ABOVE THE CEILING. REFER TO WIRELESS DETAIL FOR MORE INFORMATION.	 5. PROVIDE BLANK MODULES FOR ALL UNUSED PORTS. 6. REAM AND BUSH ALL CONDUIT ENDS. 7. PROVIDE SINGLE GANG PLASTER RING FOR DOUBLE GANG BOXES WITH SINGLE GANG FACEPLATES, UON.
	DATA OUTLET FOR WALL MOUNTED EXTERIOR WIRELESS ACCESS POINT	MULLION	WALL	1"	MPTL MALE PLUG	RJ-45		1		CAT 5e	BLUE	YELLOW	** PROVIDE CATEGORY 6 CABLING FOR EXTERIOR WIRELESS ACCESS POINTS ONLY. PROVIDE 30' SERVICE LOOP ABOVE THE CEILING. REFER TO OUTDOOR WIRELESS DETAIL FOR MORE INFORMATION.	 PROVIDE DOUBLE GANG PLASTER RING FOR DOUBLE GANG BOXES WITH DOUBLE GANG FACEPLATES, UON. REFER TO FACEPLATE DETAILS FOR OUTLET PORT
- J	JUNCTION BOX	2G	18" (UON)	1"	SINGLE GANG BLANK									CONFIGURATION. 10. REFER TO TELECOM DETAIL SHEETS FOR ADDITION DETAILS AND INFORMATION.
AV2	AV WALL BOX	2G	18"	1.25"	SEE DETAIL 5 ON LV0.02								PROVIDE CONDUIT TO NEAREST ACCESSIBLE CEILING. PROVIDE 2G "DEEP" (3-1/2") BACK BOX. PROVIDE DUPLEX POWER WITHIN 6" OR ONE STUD FRAME FROM AV INPUT BOX. PROVIDE 2X DATA OUTLET WITHIN 6" OR ONE STUD FRAME FROM AV INPUT BOX.	
—XXA YY	AV DISPLAY BACK BOX	CHIEF PAC526	YY"	1.25"									"XX" REPRESENTS DISPLAY SIZE. PROVIDE CONDUIT TO NEAREST ACCESSIBLE CEILING. PROVIDE PLYWOOD BLOCKING BETWEEN STUDS. PROVIDE DUPLEX POWER AND DATA WITHIN DISPLAY BACK BOX	

LOW VOLTAGE ABBREVIATIONS:

ACAMS ACS ACU AFF AFC AP C F/A FOC FRO IDF IDS IDC JB MMF MDF NIC OFOI OFOI OFOI OFCI OSP PBO PTZ RAE RCP SMF SPEC TGB TMGB WP U.O.N. VMS VSS	ACCESS CONTROL AND ALARM MONITORING SYSTEM ACCESS CONTROL SYSTEM ACCESS CONTROL UNIT ABOVE FINISHED FLOOR ABOVE FINISHED CEILING ACCESS POINT CONDUIT FIRE ALARM FIBER OPTIC CABLING FOR REFERENCE ONLY INTERMEDIATE DISTRIBUTION FACILITY INTRUSION DETECTION SYSTEM INSTALLATION DISPLACEMENT CONNECTOR JUNCTION BOX MULTI-MODE FIBER MAIN DISTRIBUTION FACILITY NOT IN CONTRACT ON CENTER OWNER FURNISHED, OWNER INSTALLED OWNER FURNISHED, OWNER INSTALLED OWNER FURNISHED CONTRACTOR INSTALLED OUTSIDE PLANT PROVIDED BY OTHER PAIR PAN/TILT/ZOOM REFER IN ARCHITECTURAL ELEVATIONS REFLECTED CEILING PLAN SINGLE MODE FIBER SPECIFICATION TELECOM GROUND BUS BAR WEATHERPROOF UNLESS OTHERWISE NOTED VIDEO MANAGEMENT SYSTEM VIDEO SURVEILLANCE SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM

LOW VOLTAGE SYMBOLS LEGEND:

 $\langle | \rangle$

WALL OUTLET, REFER TO ROUGH IN MATRIX FOR ADDITIONAL INFORMATION.

CEILING OUTLET, REFER TO ROUGH IN MATRIX FOR ADDITIONAL INFORMATION.

SECURITY GENERAL NOTES

- 1. CATEGORY CABLING SERVING NETWORKED SECURITY DEVICES SHALL BE PROVIDED UNDER THE STRUCTURED CABLING CONTRACTOR'S SCOPE.
- 2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SECURITY SYSTEMS INTEGRATOR TO ENSURE THAT CONDUIT PROVISIONS ARE APPROPRIATE FOR THE EQUIPMENT PROVIDED.

SECURITY SYMBOL LEGEND

ACCESS CONTROL SYSTEM

- ACCESS CONTROL CARD READER (BLACKBOARD DR4200, OWNER \square FURNISHED CONTRACTOR INSTALLED)
- M MAGNETIC CONTACT
- LA LOCAL DOOR ALARM
- (T) TAMPER SWITCH
- SEC SECURITY ENCLOSURES (ACCESS CONTROL PANELS, AND DOOR LOCKING HARDWARE POWER SUPPLIES, ETC.)
- PIM WIRELESS CARD READER/LOCK NETWORK CONTROLLER
- ELECTRIFIED DOOR HARDWARE (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- EL ELECTRIC MORTISE LOCK WITH INTEGRAL REQUEST-TO-EXIT SWITCH
- ED ELECTRIC EXIT DEVICE LOCK WITH INTEGRAL REQUEST-TO-EXIT SWITCH
- СВ MECHANICAL EXIT DEVICE WITH INTEGRAL REQUEST-TO-EXIT SWITCH
- WIRELESS LOCK WITH INTEGRATED CARD READER (SCHLAGE AD-400 WITH WЦ EXTENDED BATTERY OPTION. COORDINATE EXACT PART # WITH GT.

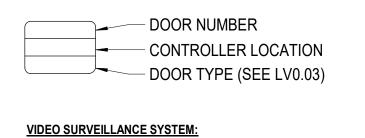
VIDEO SURVEILLANCE SYSTEM:

FIXED IP CAMERA

- FIXED THREE-SENSOR IP CAMERA
- LAN NETWORK SWITCH (PROVIDED BY OWNER)

SECURITY DEVICE TAGS:

ACCESS CONTROL SYSTEM:



CAMERA NUMBER NETWORK SWITCH LOCATION CAMERA RECORDING PARAMETER (SEE LV0.03) CAMERA TYPE (SEE LV0.03) CAMERA MOUNT TYP (SEE LV0.03)

AUD	
14.	ALL
15.	CO
16.	COO
17.	FIN
18.	FIEI
19.	USE
20.	ALL
21.	ALL
<u>AUD</u>	10 VI
22.	PRO

30. CABLE TEST RESULTS OF ALL PERMANENT HORIZONTAL CABLE LINKS (CATEGORY 5E AND RG-6 COAX).

UTILIZING A TESTING INSTRUMENT CAPABLE OF TESTING CATEGORY 5E / CATEGORY 6 SPECIFICATIONS. THE CABLE MUST PASS ALL TEST PARAMETER AS DEFINED IN ANSI/TIA-1152-A. CALIBRATION CERTIFICATES FOR FIELD TESTERS SHALL BE PROVIDED TO THE GEORGIA TECH PROJECT SUPERINTENDENT FOR REVIEW. 32. THE FIELD TESTER SHALL HAVE THE LATEST VERSION OF SOFTWARE INSTALLED IN ORDER TO PROVIDE THE MOST ACCURATE AND CURRENT TESTING PARAMETERS AND VALUES. ALL FIELD TESTERS SHALL BE FACTORY CALIBRATED BY THE FIELD TESTER MANUFACTURER PER THE REQUIREMENTS IN THE TEST EQUIPMENT MANUAL THAT IS PROVIDED WITH THE FIELD TESTER. REQUIREMENTS AND RECOMMENDATIONS FOR CONNECTIONS, TEST CONFIGURATION, MEASUREMENT PROCEDURES, AND PRECAUTIONS THAT ARE SPECIFIED IN THE MANUALS PROVIDED WITH THE FIELD TESTER SHALL BE FOLLOWED. AUTOTEST SETTINGS PROVIDED IN THE FIELD TESTER FOR TESTING THE INSTALLED CABLING SHALL BE SET TO THE DEFAULT PARAMETERS. ANY AUTOTEST SETTINGS THAT HAVE BEEN MODIFIED TO CHANGE TESTING PARAMETER MAY DISQUALIFY THE TEST RESULTS. TEST SETTINGS SELECTED FROM THE OPTIONS PROVIDED IN THE FIELD TESTERS SHALL BE COMPATIBLE WITH THE INSTALLED CABLING UNDER TEST. 33. ALL TEST RESULTS MUST BE SAVED AND PROVIDED IN ELECTRONIC FORMAT TO THE GEORGIA TECH PROJECT SUPERINTENDENT FOR REVIEW.

Newcomb & Boyd CONSULTANTS AND ENGINEERS

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UNICATIONS STRUCTURED CABLING SPECIFICATIONS & NOTES:

USE CONDUITS FOR CABLE ROUTING IN ALL EXPOSED AREAS. OTHERWISE, PROVIDE AND INSTALL J-HOOKS DIRECTLY TO THE UNDERSIDE OF SLAB ABOVE 5'-0" O.C. IF UNDERSIDE OF SLAB IS UN-ACCESSIBLE, J-HOOKS SHALL BE SUPPORTED BY THE WALL STRUCTURE ABOVE THE CEILING. UNDERSIDE OF J-HOOKS SHALL BE NO LESS THAN 6" ABOVE CEILING. ARCHITECT TO APPROVE ALL LOCATIONS WHERE PATHWAYS ARE EXPOSED.

TELECOMMUNICATION PORTS SHALL BE RECESSED IN EXISTING WALLS. IF UNABLE TO RECESS, SURFACE MOUNT (CABLE AND PORT) IN SURFACE MOUNT RACEWAY. SECURE RACEWAY TO STRUCTURE WITH SCREWS. ARCHITECT TO APPROVE ALL LOCATIONS WHERE PATHWAYS ARE EXPOSED.

FIRE STOP ALL PENETRATIONS THROUGH WALLS AND FLOOR SLAB, RATED OR NON-RATED. CABLE PENETRATIONS THROUGH WALLS SHALL BE CORE DRILLED TO A SIZE THAT IS JUST LARGER THAN NECESSARY, BUT NO LARGER THAN 1.5X THE DIAMETER OF THE CONDUIT SLEEVE OR THE CABLE BUNDLE PENETRATING THE WALL. ALL PENETRATIONS THRU FLOOR AND FIRE WALLS SHALL BE SLEEVED.

CONTRACTOR SHALL RUN ALL CABLES CONCEALED, ABOVE THE CEILING AND IN THE WALL, WHERE POSSIBLE. ALL EXPOSED CABLES, IN FINISHED AREAS, SHALL BE IN SURFACE MOUNTED RACEWAY AND BOXES. ARCHITECT TO APPROVE ALL LOCATIONS WHERE PATHWAYS ARE EXPOSED.

ANENT HORIZONTAL CABLE PERFORMANCE TESTING:

TEST ALL VOICE AND CABLES PER GEORGIA TECH SPECIFICATIONS. REFERENCE TEST REPORTS TO GEORGIA TECH CABLE IDENTIFICATION STANDARDS. PROVIDE THREE SETS OF TEST REPORTS AND ONE ELECTRONIC COPY ON DISK TO GEORGIA TECH PROJECT SUPERINTENDENT FOR REVIEW.

PROVIDE AND INSTALL UL-LISTED, PLENUM-RATED, 4-PAIR, CATEGORY 5E UTP DATA STATION CABLE FROM TELECOM ROOM TO EACH DATA PORT LOCATION. TERMINATE DATA STATION CABLES ON CAT5E PATCH PANEL(S) IN TELECOM ROOM. CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE NUMBER OF 48-PORT, HIGH DENSITY, CAT5E, PATCH PANELS TO TERMINATE ALL CAT5E DATA STATION CABLES. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL PATCH PANELS SHALL BE 48-PORT HIGH DENSITY. PROVIDE AND INSTALL A WIRE MANAGEMENT PANEL ABOVE AND BELOW EACH PATCH PANEL. WIRE MANAGEMENT SHALL BE 2RU AND HAVE 4 HORIZONTAL, 4 VERTICAL, AND 24 (2" DEEP) INDIVIDUAL WIRE CLIPS. MATCH EXISTING MANUFACTURER.

PROVIDE AND INSTALL UL-LISTED, PLENUM-RATED, 4-PAIR, CATEGORY 5E UTP VOICE STATION CABLE FROM TELECOM ROOM TO EACH VOICE PORT LOCATION. TERMINATE VOICE STATION CABLES ON CAT5E 110-PUNCHDOWN BLOCKS IN TELECOM ROOM. CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE NUMBER OF 110-PUNCHDOWN BLOCKS TO TERMINATE ALL CAT5E VOICE STATION CABLES. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL 110-BLOCKS SHALL BE 100-PAIR. PROVIDE AND INSTALL A WIRE TROUGH ABOVE AND BELOW EACH 110-BLOCK. MATCH EXISTING MANUFACTURER.

PROVIDE ONE (1) 7' CATEGORY 5E PATCH CABLE AND ONE (1) 14' CATEGORY 5E PATCH CABLE FOR EACH RJ-45 (DATA) PORT

CABLING :

PROVIDE AND INSTALL UL-LISTED, PLENUM-RATED, QUADSHIELD, RG-6/U (OR RG-11 IF RUN IS OVER 200') COAX CABLE FROM TELECOM ROOM TO EACH CATV PORT LOCATION. TERMINATE CATV CABLE ON FEMALE TO FEMALE BULKHEAD PATCH THRU PANEL IN TELECOM ROOM. CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE NUMBER OF BULKHEAD PATCH PANELS, TO TERMINATE ALL CABLES, AS REQUIRED. MATCH EXISTING MANUFACTURER.

PROVIDE ONE (1) 6' CATV PATCH CABLE FOR EACH CATV PORT. PATCH CABLES SHALL BE MADE OF RG-6/U, QUADSHIELD, STATION CABLE.

11. TEST ALL CATV CABLES PER GEORGIA TECH SPECIFICATIONS. REFERENCE TEST REPORTS TO GEORGIA TECH CABLE IDENTIFICATION STANDARDS. ONE SET OF TEST REPORTS TO GEORGIA TECH PROJECT SUPERINTENDENT FOR REVIEW.

CABLE LABELING REQUIREMENTS:

12. LABEL ALL VOICE AND DATA CATEGORY CABLING, FIBER AND CATV CABLES IN ACCORDANCE WITH GEORGIA TECH SPECIFICATIONS. FINAL LABELING REQUIREMENTS SHALL BE COORDINATED AND APPROVED BY GT OIT.

SECURITY CABLING (REQUIREMENTS):

13. FOR ACCESS CONTROLLED DOORS PROVIDE SECURITY CABLING BETWEEN EACH ACCESS CONTROLLED DOOR AND THE ACCESS CONTROL PANEL LOCATED IN THE MDF/IDF WITH 5 FEET OF EXTRA CABLE ON BOTH ENDS. THE CABLES WILL EXTEND TO EACH DOOR DEVICE. CABLES SHALL BE SHIELDED, PLENUM RATED AND CONSIST OF THE FOLLOWING CABLES: CARD READER - 22 AWG / 6 CONDUCTOR (200 FT MAX) OR 18 AWG / 6 CONDUCTOR (500 FT MAX)

 ELECTRIC LOCK / DRY CONTACT LOCK SIGNAL - 18 AWG / 4 CONDUCTOR DOOR POSITION SENSOR - 22 AWG / 2 CONDUCTOR

REQUEST TO EXIT (REX) - 22 AWG / 4 CONDUCTOR

AUDIO VISUAL & MISC. SCOPE:

AUDIO VISUAL CABLING (REQUIREMENTS):

. AV TRANSPORT CABLING SHALL BE SHIELDED CAT6A, PLENUM RATED, GREY IN JACKET COLOR TERMINTATED INTO GREEN JACKS.

OORDINATE ALL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

OORDINATE ALL FURNITURE CUTOUTS WITH FURNITURE PROVIDER.

NAL HEIGHT AND MOUNTING LOCATIONS SHALL BE COORINDATED WITH ARCHITECTURAL ELEVATIONS.

ELD VERIFY ALL DIMENSIONS PRIOR TO NSTALLATION OF EQUIPMENT.

E VELCRO STRAPS FOR ALL CABLE MANAGEMENT APPLICATIONS. TIE WRAPS ARE PROHIBITED.

CONDUITS TO NEAREST ACCESIBLE CEILING SHALL BE STUBBED UP INTO THE SAME ROOM UON ON THE PLANS.

. AV SYSTEMS SHALL BE INSTALLED AND CONFIGURED PER GT OIT STANDARDS. REFERENCE WWW.GTLOWVOLTAGESTANDARDS.GATECH.EDU

ISUAL SYSTEMS SUBMITTALS:

RODUCT DATA SHEETS FOR:

- CATEGORY 6A, STP, CABLES HDMI, USB, AND ETHERNET CABLES
- FACEPLATES & CONNECTORS
- ALL AV DEVICES

23. PROVIDE FULLY LABELED SIGNAL FLOW DIAGRAMS AND CABLE TEST RESULTS (CONTRACTOR TERMINATED CABLES)

24. SEE BELOW (NUMBERS 25, 27, AND 29) FOR GENERAL LOW VOLTAGE SYSTEM SUBMITTAL REQUIREMENTS.

LOW VOLTAGE SYSTEMS SUBMITTALS:

25. SUBMITTAL DATA SHALL BE PROVIDED FOR ALL EQUIPMENT AND CABLING. SUBMITTALS ARE REQUIRED BEFORE INSTALLATION BEGINS. EQUIPMENT AND CABLING SHALL NOT BE ORDERED OR APPROVED PRIOR TO RECEIPT OF APPROVAL OF SUBMITTALS. SUBMITTALS SHALL INCLUDE EQUIPMENT INFORMATION CUTSHEETS IN ELECTRONIC FORMAT WITH INDEX OF CONTENTS FOR:

26. PRODUCT DATA SHEETS FOR: CATEGORY 5E, 4-PAIR, UTP, CABLE RG-6 QUAD SHIELD COAX CABLE SECURITY ACCESS CONTROL CABLING FACEPLATES & JACKS 48 PORT PATCH PANELS (2RU) CARD READERS

27. AS-BUILT DRAWINGS CONTAINING A RECORD OF FIELD AND AS-INSTALLED CONDITIONS.

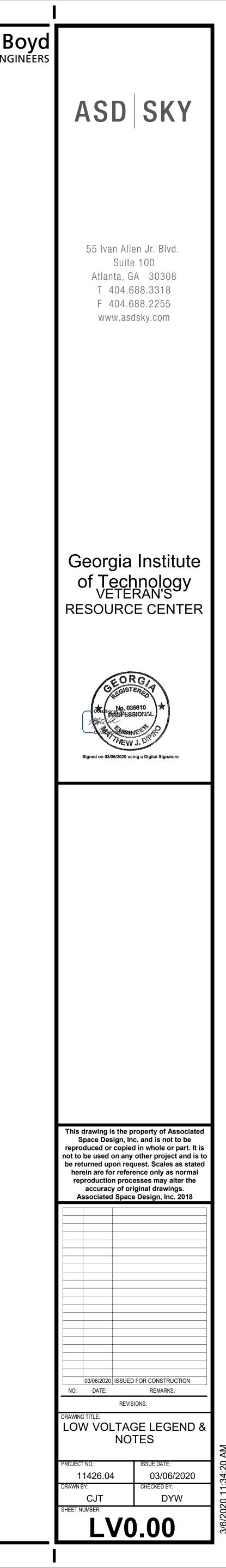
28. TYPICAL WIRING DIAGRAM INDICATING THE INTERFACE BETWEEN THE DOOR HARDWARE PROVIDED BY DIVISION 08 FOR EACH DOOR TYPE AND WRITTEN DESCRIPTION OF THE DOOR'S SEQUENCE OF OPERATION.

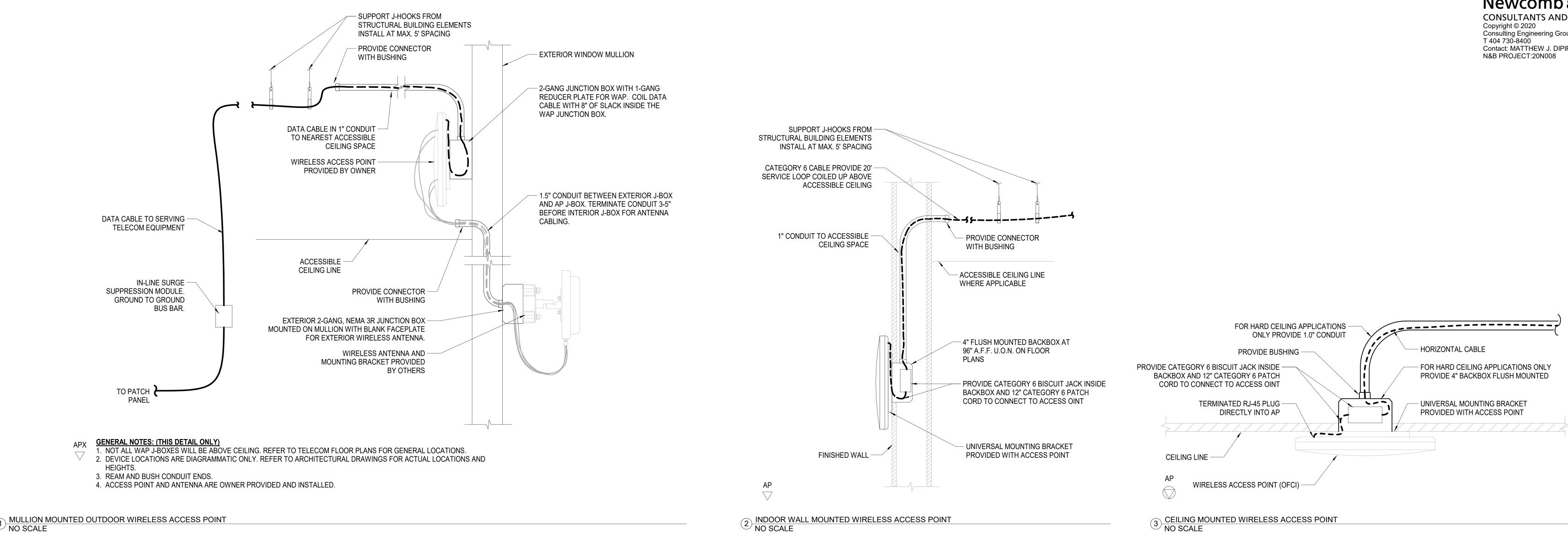
29. DESCRIPTION OF LABELING METHODS.

STRUCTURED CABLING (PERMANENT LINK) TESTING:

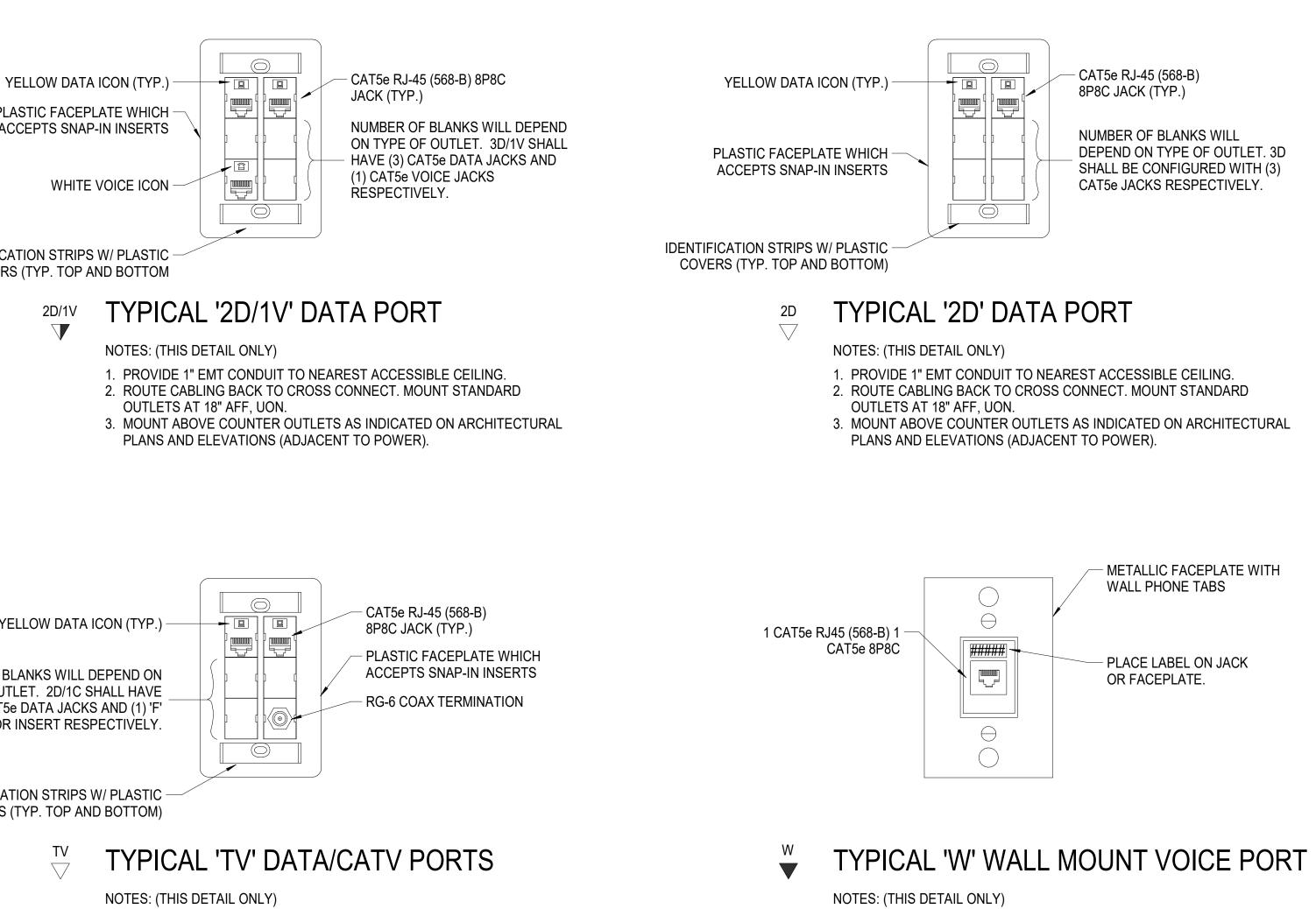
31. CONTRACTOR SHALL TEST ALL PERMANENT LINKS (HORIZONTAL VOICE/DATA/COAX CABLING) FROM THE TELECOMMUNICATIONS OUTLET TO THE PATCH PANEL

34. ANY CABLE NOT MEETING OR EXCEEDING THE TESTING PARAMETERS SHALL BE INSPECTED FOR ANOMALIES, AND RE-TERMINATED OR REPLACED BY THE CONTRACTOR TO ENSURE COMPLIANCE.





MULLION MOUNTED OUTDOOR WIRELESS ACCESS POINT

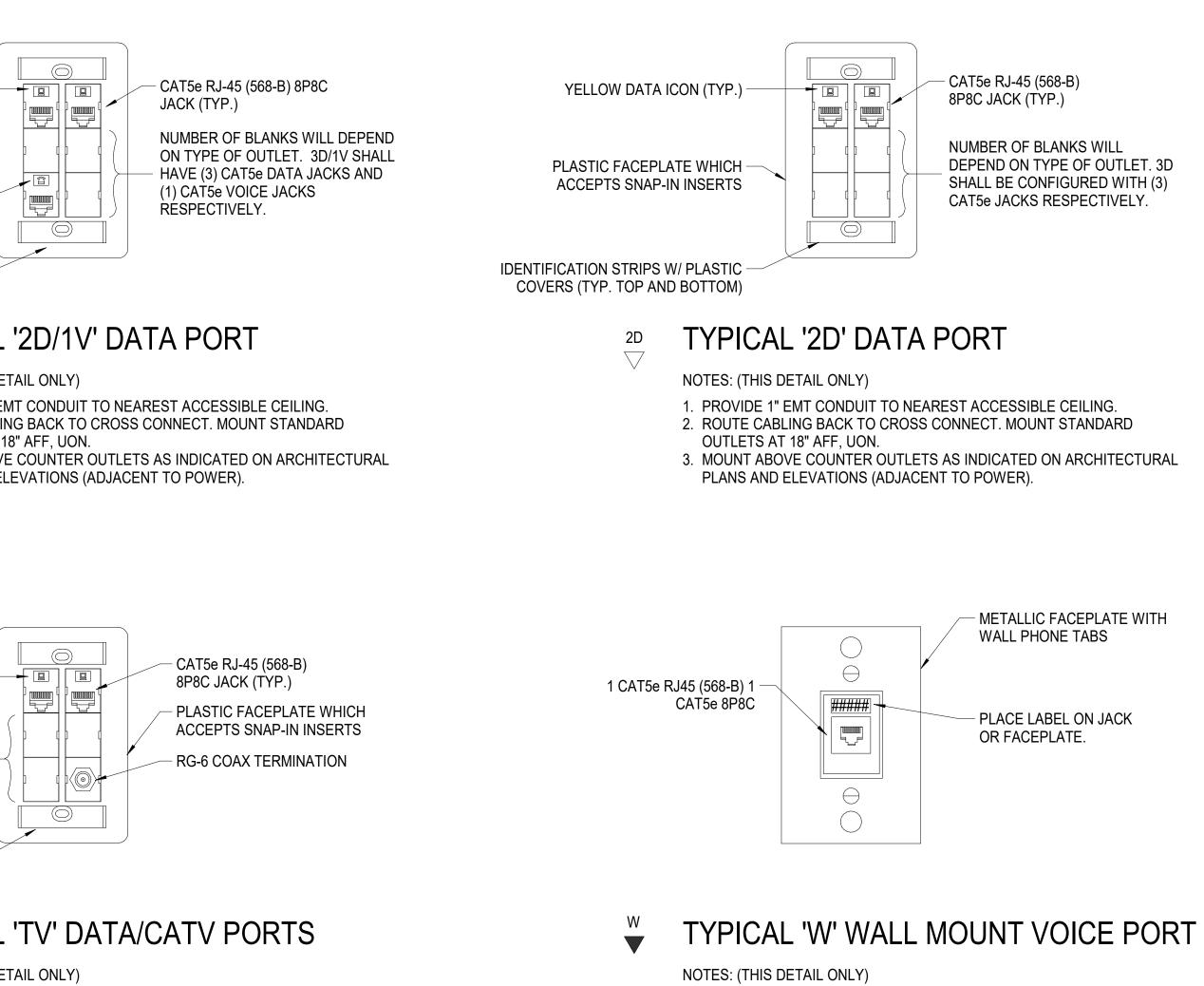


PLASTIC FACEPLATE WHICH ACCEPTS SNAP-IN INSERTS

IDENTIFICATION STRIPS W/ PLASTIC COVERS (TYP. TOP AND BOTTOM

2D/1V

NOTES: (THIS DETAIL ONLY) OUTLETS AT 18" AFF, UON.



YELLOW DATA ICON (TYP.) -

NUMBER OF BLANKS WILL DEPEND ON TYPE OF OUTLET. 2D/1C SHALL HAVE (2) CAT5e DATA JACKS AND (1) 'F' CONNECTOR INSERT RESPECTIVELY.

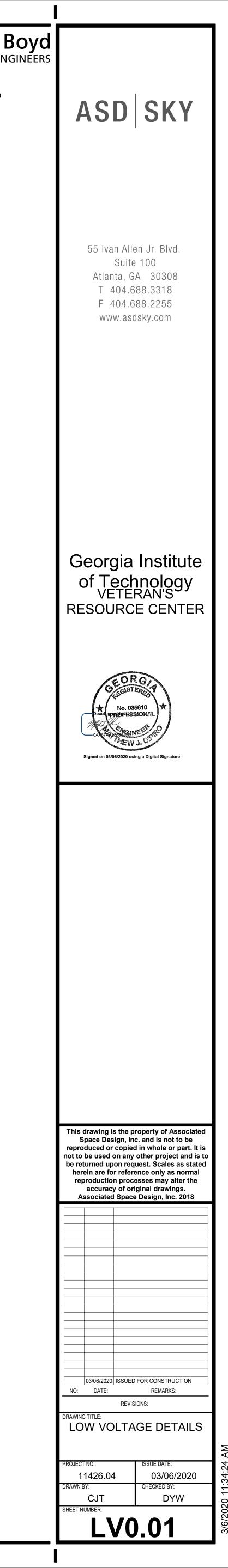
IDENTIFICATION STRIPS W/ PLASTIC -COVERS (TYP. TOP AND BOTTOM)

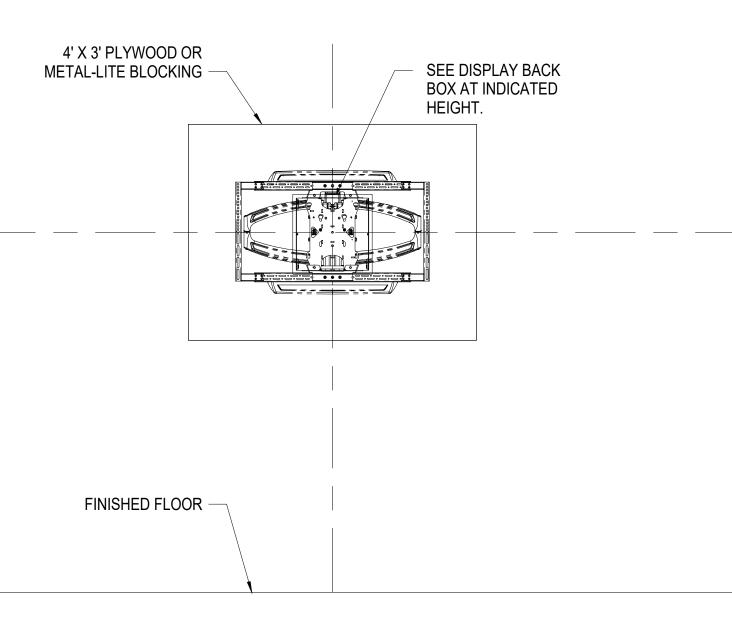
ΤV $\overline{}$

NOTES: (THIS DETAIL ONLY) 1. PROVIDE 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING. 2. ROUTE COMMUNICATIONS CABLING BACK TO CROSS CONNECT. 3. MOUNT OUTLET AT 60" AFF FOR ALL STANDARD LOCATIONS, UON. 4. COORDINATE MOUNTING LOCATION WITH POWER RECEPTACLES

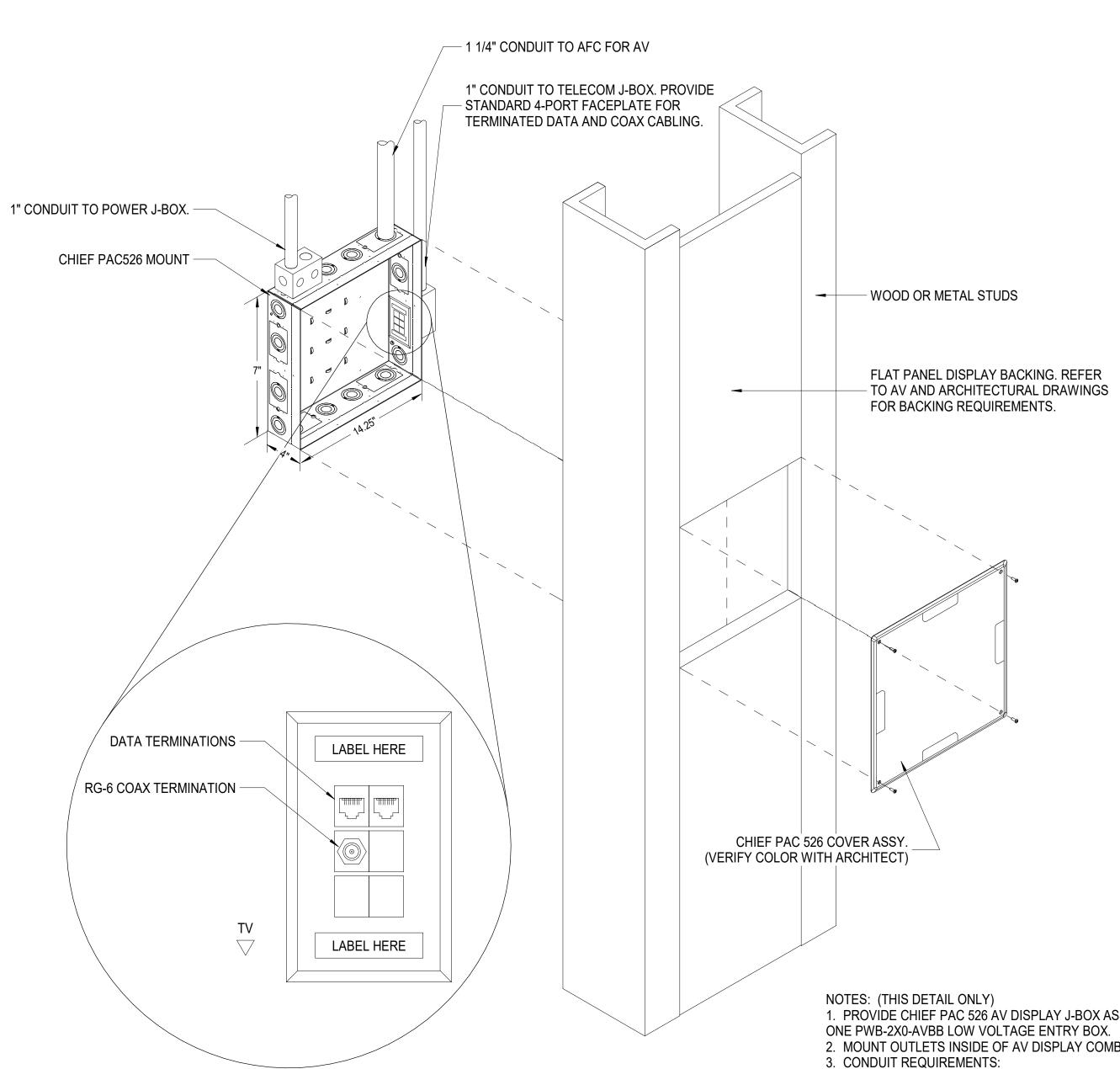
4 FACEPLATE DETAILS NO SCALE

- 1. PROVIDE 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING. 2. ROUTE COMMUNICATIONS CABLING BACK TO CROSS CONNECT.
- 3. MOUNT OUTLET AT 48" AFF AT ALL STANDARD LOCATIONS, UON.
- 4. PROVIDE ENOUGH SPACE ADJACENT TO OTHER SWITCHES AND OUTLETS FOR MOUNTING OF STANDARD WALL PHONE.
- 5. COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

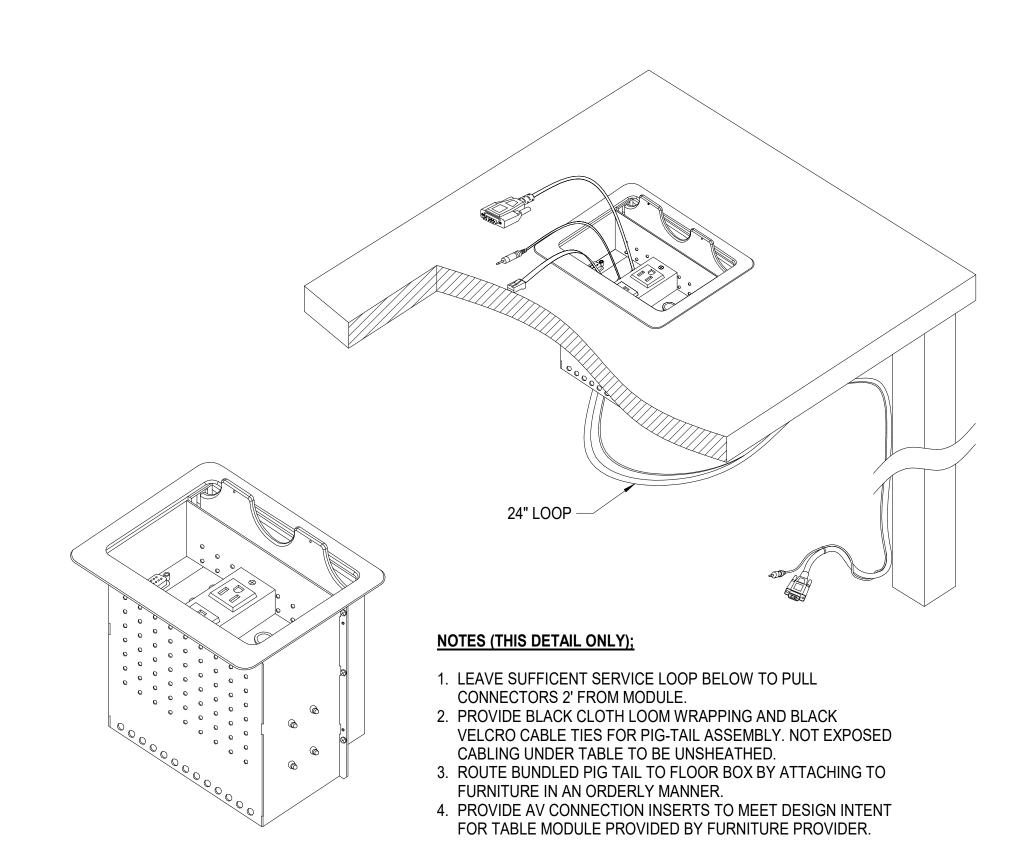




1 DISPLAY BLOCKING DETAIL NTS



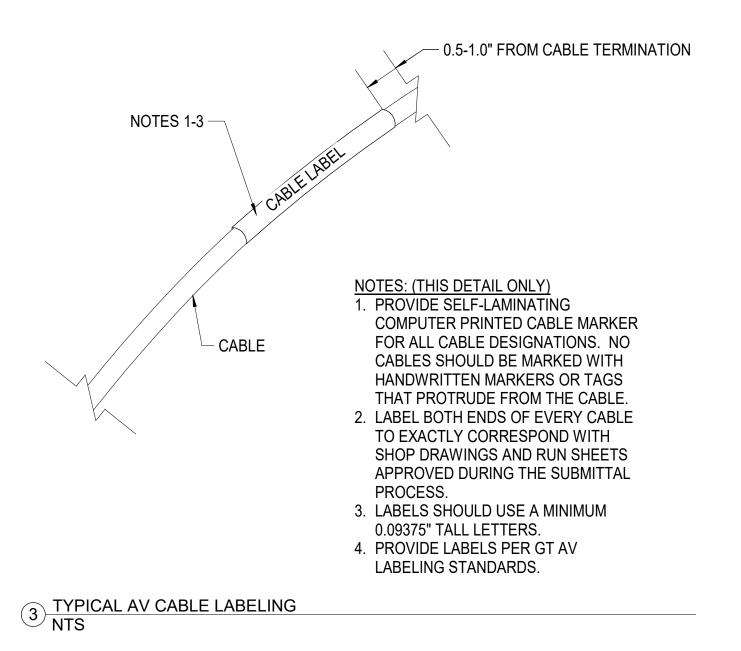
4 FLAT PANEL DISPLAY PAC526 MOUNT DETAIL NO SCALE

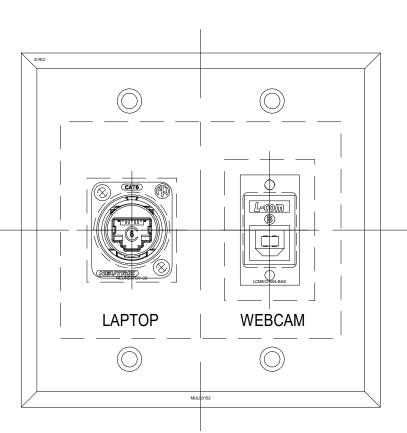


2 TABLE MODULE CABLE MANAGEMENT DETAIL NO SCALE

- 1. PROVIDE CHIEF PAC 526 AV DISPLAY J-BOX ASSEMBLY WITH ONE QTY-1 LOW VOLTAGE ENTRY BOX AND
- 2. MOUNT OUTLETS INSIDE OF AV DISPLAY COMBO J-BOX AS RECOMMENDED BY MANUFACTURER.
- 3.1 TELECOM: 1.25" CONDUIT TO THE NEAREST ACCESSIBLE CEILING SPACE.
- 3.2 POWER: 0.75" CONDUIT ROUTED AS INDICATED ON POWER DRAWINGS.
- 3.3 AUDIOVISUAL: REFER TO AV DRAWINGS FOR INFORMATION.
- 4. REAM AND BUSH CONDUIT ENDS.
- 5. PROVIDE BLANK MODULES WHERE OUTLETS ARE NOT PROVIDED.
- 6. REFER TO AV DRAWINGS FOR FINAL J-BOX HEIGHTS, LOCATIONS AND ADDITIONAL AV REQUIREMENTS. 7. REFER TO POWER DRAWINGS FOR ADDITIONAL POWER REQUIREMENTS.

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HUDDLE ROOM WALL PLATE DETAIL AV

5 HUDDLE WALL PLATE DETAIL NTS

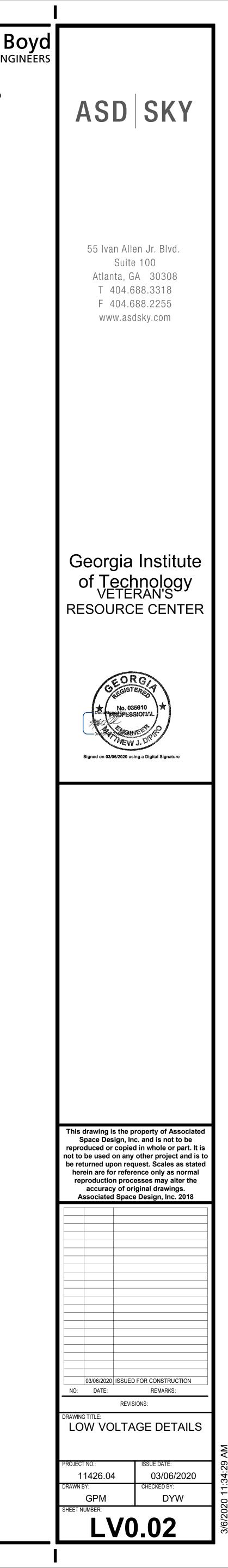
NOTES:

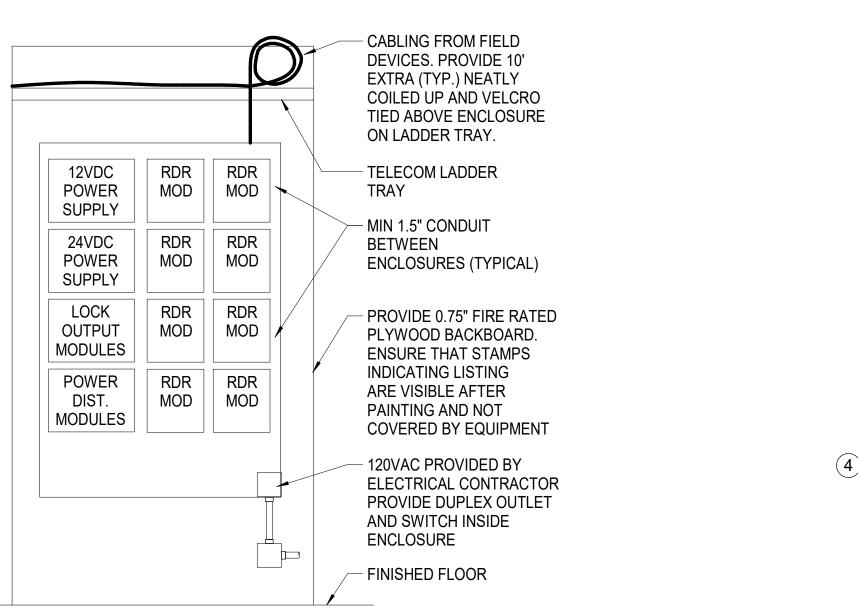
(THIS DIAGRAM ONLY)

1. PLATE SHALL INCLUDE LABEL FOR EACH CONNECTOR.

2. COLOR CODE JACKS BASED ON GT STANDARDS. 3. HDBT CONNECTION TO BE LOCKING NEUTRIK EHTERCON-STYLE CONNECTOR.

4. COORDINATE COLOR OF PLATE WITH ARCHITECT PRIOR TO ORDERING.

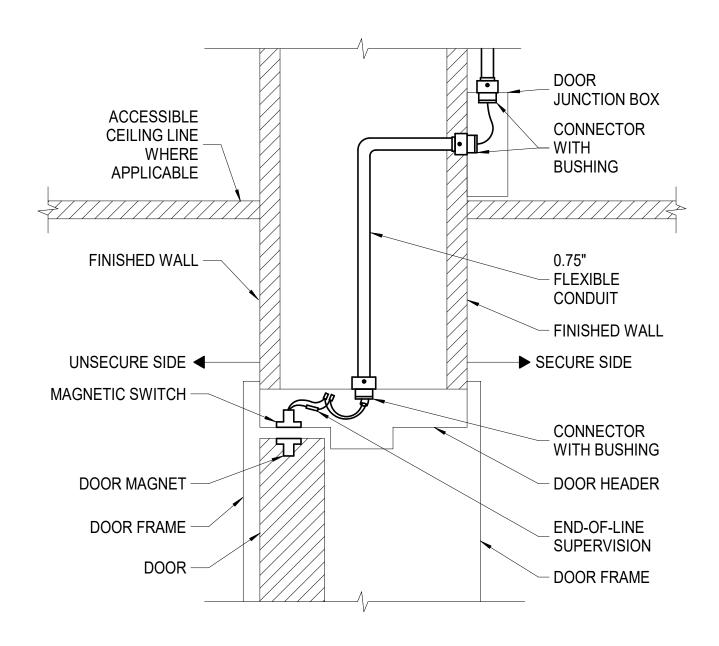




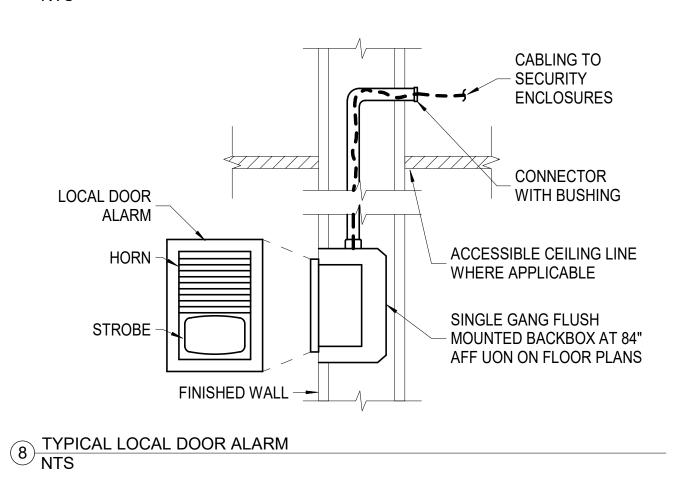
GENERAL NOTES (THIS DETAIL ONLY):

- 1. DETAIL INDICATES GENERIC LAYOUT AND EQUIPMENT QUANTITIES. COORDINATE WITH ACTUAL TYPE OF EQUIPMENT PROVIDED AND FIELD CONDITIONS.
- 2. CONFIGURE ACU TO MONITOR AC POWER FAILURE AND LOW BATTERY CONDITION OF EACH POWER SUPPLY.

6 TYPICAL SECURITY ENCLOSURES ELEVATION



7 TYPICAL RECESSED MAGNETIC SWITCH



CAMERA TYPE SCHEDULE							
CAMERA TYPE	HOUSING STYLE	FIXED / PTZ	ENCLOSURE RATING	RESOLUTION PIXELS (HxV)	ANGLE OF VIEW		
2A	MINI-DOME	FIXED	INDOOR	2.0 MP	32° – 98°		
2B	MINI-DOME	FIXED	OUTDOOR	2.0 MP	32° – 98°		
5A	MINI-DOME	FIXED	INDOOR	5.0 MP	46° – 86°		
5B	MINI-DOME	FIXED	OUTDOOR	5.0 MP	46° – 86°		
8A	DOME	FIXED	INDOOR	8.0 MP	44° – 81°		
8B	DOME	FIXED	OUTDOOR	8.0 MP	44° – 81°		
15A	DOME	FIXED	INDOOR	3 X 5.0 MP	180°		
15B	DOME	FIXED	OUTDOOR	3 X 5.0 MP	180°		
15C	DOME	FIXED	INDOOR	3 X 5.0 MP	270°		
15D	DOME	FIXED	OUTDOOR	3 X 5.0 MP	270°		
20A	DOME	FIXED	INDOOR	4 X 5.0 MP	360°		
20B	DOME	FIXED	OUTDOOR	4 X 5.0 MP	360°		

MOU TYP CF

GENERAL NOTES (THIS DETAIL ONLY): 1. COORDINATE ALL FINAL CAMERA LOCATIONS, VIEWS AND FINAL PROGRAMMING REQUIREMENTS WITH OWNER.

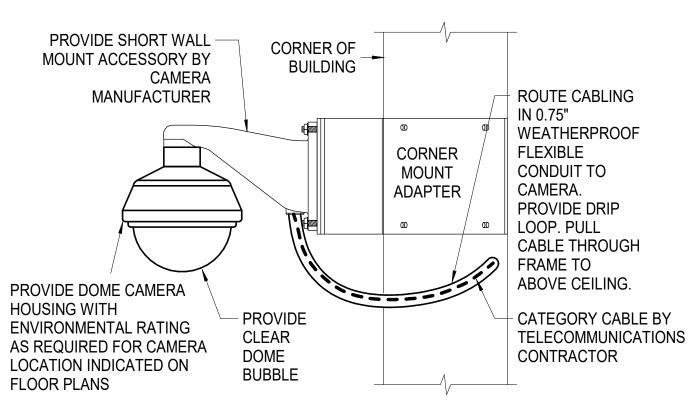


GENERAL NOTES (THIS DETAIL ONLY):

1. NOT ALL RECORDING TYPES ARE USED. COORDINATE FINAL PROGRAMMING REQUIREMENTS WITH OWNER.

CATEGORY CABLE BY TELECOMMUNICATIONS CONTRACTOR CONNECTOR WITH CAMERA MOUNT BUSHING ACCESSORY BY CAMERA IDC - TYPE FIELD MANUFACTURER. TERMINATED RJ-45 PLUG SUPPORT FROM CEILING STRUCTURE WITH T-BARS CEILING LINE MINI-DOME CAMERA

4 CAMERA MOUNT TYPE CF NTS



5 CAMERA MOUNT TYPE CR NTS

 NOT ALL CAMERA TYPES ARE USED. REFERENCE CAMERA IDENTIFICATION TAGS ON THE FLOOR PLANS FOR REQUIREMENTS FOR EACH CAMERA.

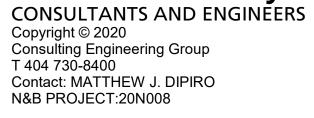
CAMERA MOUNTING TYPE SCHEDULE							
MOUNT TYPE	DETAIL	SHEET	MOUNTING HEIGHT	NOTES			
CF	1	LV0.03	CEILING	UNLESS OTHERWISE NOTED ON FLOOR PLANS			
CR	2	LV0.03	9'-0" A.F.F.	UNLESS OTHERWISE NOTED ON FLOOR PLANS			

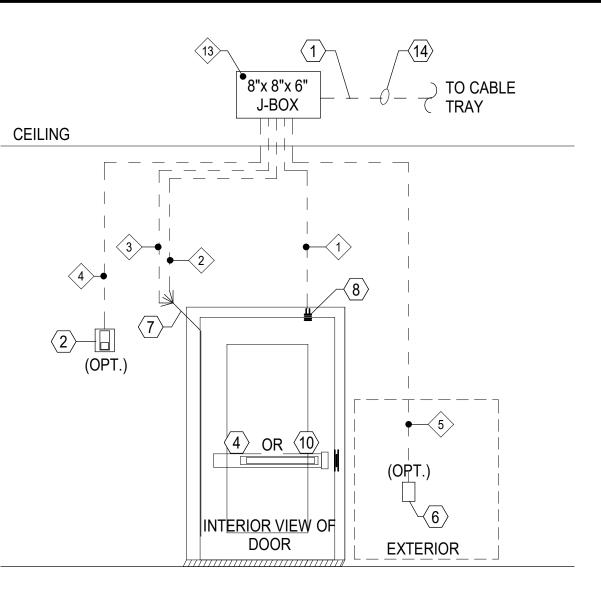
	CAMERA RECORDING TYPE SCHEDULE								
RDING OFILE	FPS	QUALITY	COMPRESSION	RETENTION (DAYS)	HOURS	MOTION OR CONTINUOUS	MOTION %		
1	15	HIGH	H.264	30	24	MOTION	10		
2	15	HIGH	H.264	30	24	MOTION	20		
3	15	HIGH	H.264	30	24	MOTION	30		
4	15	HIGH	H.264	30	24	MOTION	40		
5	15	HIGH	H.264	30	24	MOTION	50		
6	30	HIGH	H.264	30	24	CONTINUOUS	N/A		

= CABLE AND NOTES

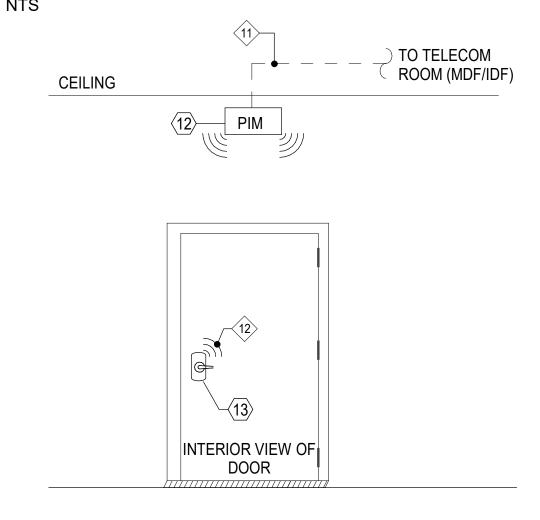
- 1. COMPOSITE CABLE, WHITE JACKET DOOR MONITOR 22/2.
- (12VDC=UP TO 50 FEET / 24VDC = UP TO 150FEET).
- UP T0 150 FEET).
- 5. COMPOSITE CABLE, ORANGE JACKET CARD READER 22/6.
- 6. COMPOSITE CABLE, BLUE JACKET BLK/RED AUTO OPENER 22/2.
- 7. NON-COMPOSITE CABLE, HANDICAP PADDLE PLENUM SHIELDED 22/2 - WIRE ALL HANDICAP PADDLES IN PARALLEL AT THE DOOR THEN EXTEND A SINGLE PAIR BACK TO THE ACCESS CONTROL PANEL.
- CABLE OR EQUIVALENT.
- 9. NON-COMPOSITE PLENUM CABLE, SHIELDED 22/2 AWG.
- 10. NON-COMPOSITE PLENUM CABLE, SHIELDED 18/2 AWG.
- TO POE PORT AT THE NETWORK SWITCH.
- CONTACT. SEE AD-400 INSTALLATION INSTRUCTIONS.
- IN MATRIX.

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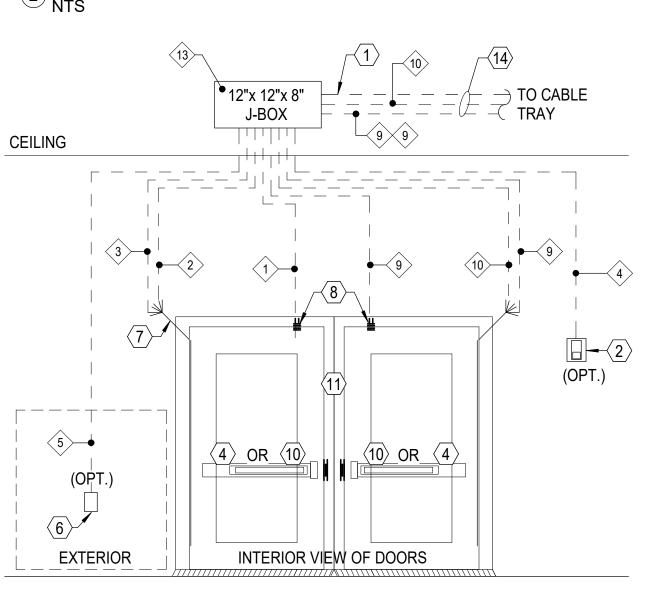








2 WIRELESS LOCK SINGLE DOOR (TYPE WL-1) NTS



3 STANDARD DOUBLE EXTERIOR DOOR (TYPE D-1), NTS

2. COMPOSITE CABLE, GRAY JACKET - BLK/RED - DOOR LOCK 18/2

3. COMPOSITE CABLE, BLUE JACKET- WHT/GRN - DOOR REX 22/2.

4. WHEN APPLICABLE - COMPOSITE CABLE, GRAY JACKET -WHT/GRN - AUDIBLE ALM 18/2 (12VDC = UP TO 50 FEET / 24VDC =

8. NON-COMPOSITE CABLE, MAXIPROX READER 22/8 - BELDEN 9330

11. NON-COMPOSITE PLENUM CABLE, CAT5e - MUST BE CONNECTED

12. AD-400 WIRELESS LOCK - DOOR SHOULD BE PREPPED BY DOOR MANUFACTURER: DOOR FRAME MUST BE DRILLED FOR DOOR

13. JUNCTION BOX ABOVE CEILING ON SECURE SIDE OF THE DOOR. LEAVE 10' COIL AT THE 3-GANG BOX AND ACP. LABEL BOTH ENDS OF ALL CABLES. CONDUITS TO EXTEND FROM 3-GANG BOX TO ALL DOOR DEVICES. SIZE CONDUITS AS NOTED ON THE ROUGH-

#>= DEVICES

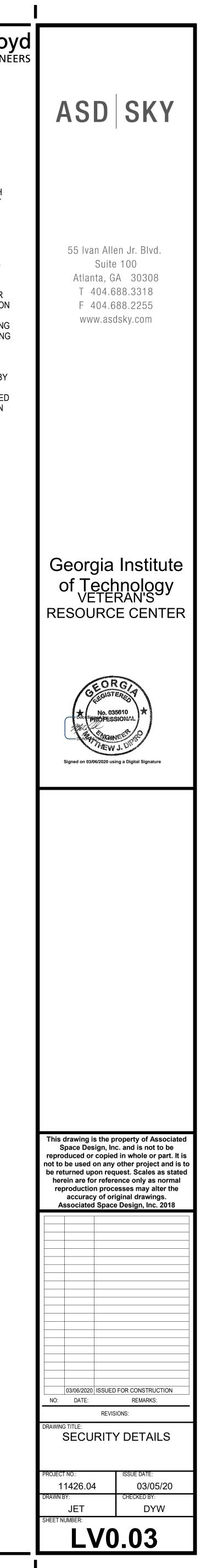
- 1. COMPOSITE CABLE WEST PENN AC251822B OR EQUIVALENT
- 2. SCHLAGE 1910S-1-24 VDC HORN WITH STROBE WHERE INDICATED ON PLANS.
- 3. NORTON 6300 SERIES LOW ENERGY OPERATOR OR EQUIVALENT (PROVIDED UNDER DIVISION 8 SPECIFICATIONS).
- 4. VON DUPRIN QEL99L RIM OR EQUIVALENT (PROVIDED UNDER
- 5. RFID R-2000-S LONG RANGE READER.

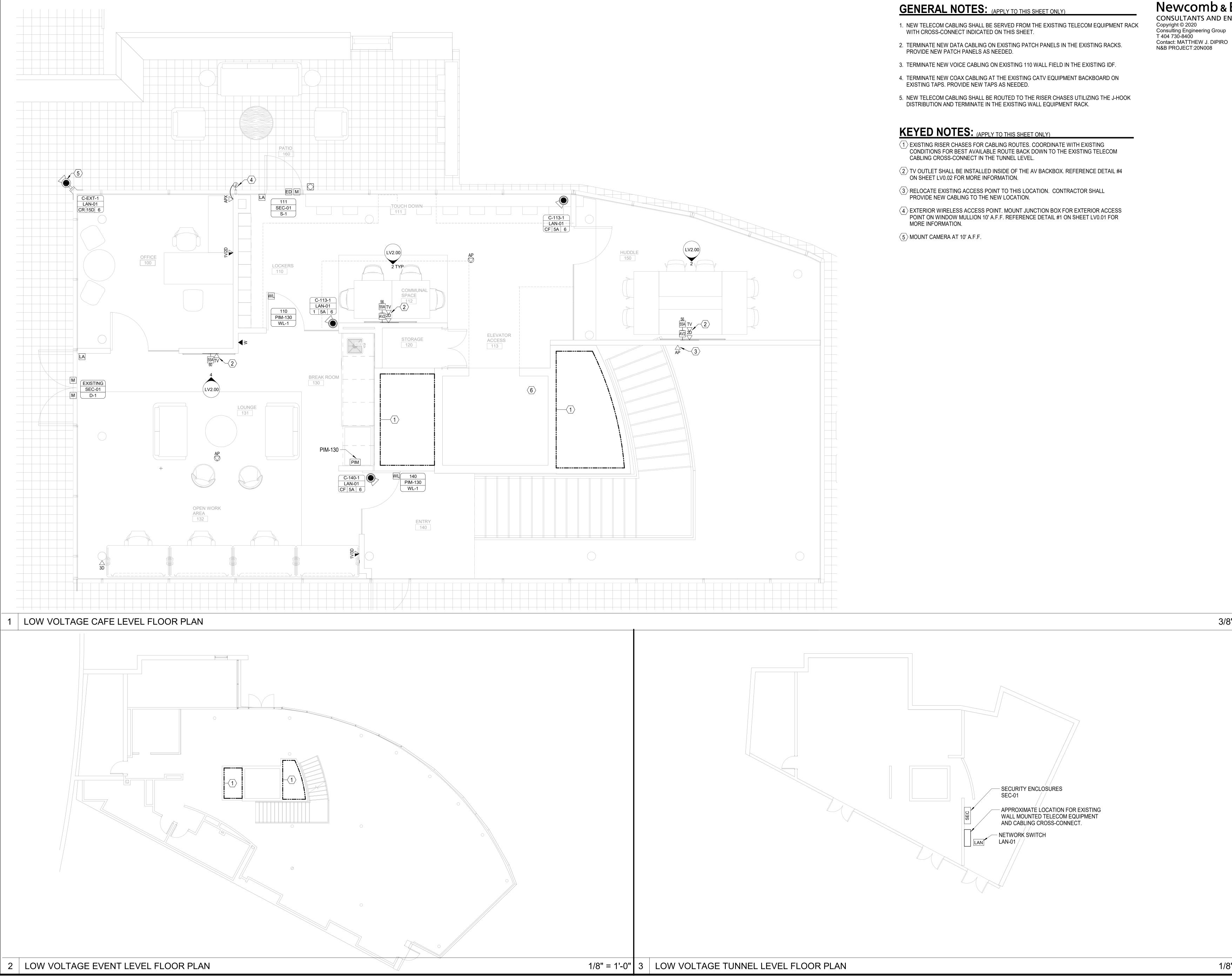
DIVISION 8 SPECIFICATIONS)..

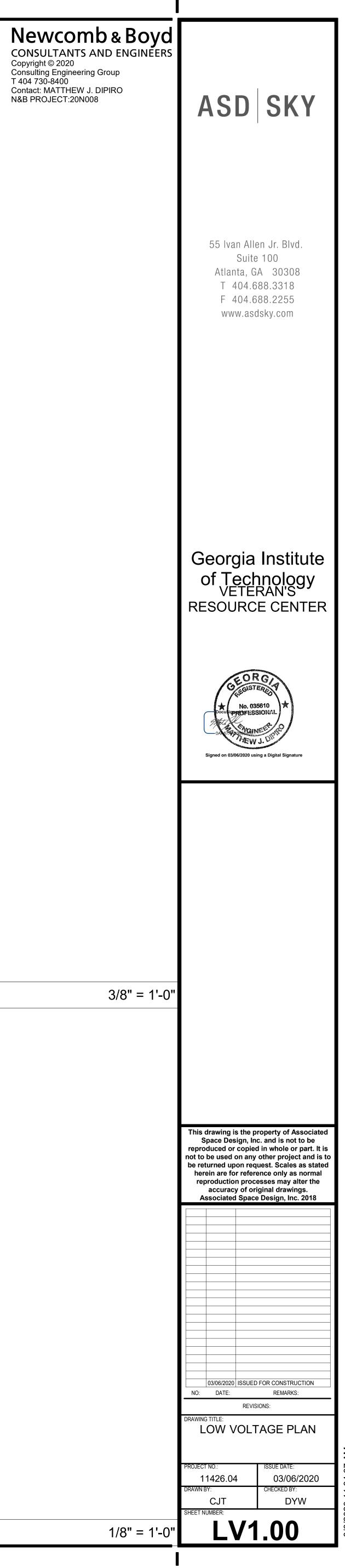
- 6. BLACKBOARD DR4200 READER WHERE INDICATED ON PLANS.
- 7. PIGTAIL FROM ELECTRIFIED DOOR HINGE / PANIC DEVICE.
- 8. ALLEGION DOOR POSITION SWITCH 679-05HM OR EQUIVALENT
- 9. HANDICAP PADDLE (PROVIDED UNDER DIVISION 8 SPECIFICATIONS).
- 10. HES 1006CS-12/24D-630 ELECTRIC STRIKE 0R EQUIVALENT (PROVIDED UNDER DIVISION 8 SPECIFICATIONS).
- 11. KEYED REMOVABLE MULLION, WHERE NECESSARY (PROVIDED UNDER DIVISION 8 SPECIFICATIONS), NO VERTICAL ROD OR VERTICAL CABLE DEVICES.
- 12. SCHLAGE PIM400-1501 -- MAXIMUM OF 16 AD-400 LOCKS PER PIM.
- 13. SCHLAGE AD-400 WIRELESS LOCKSET WITH MULTI-TECHNOLOGY MIFARE DESFIRE EV1 OPTION INCLUDED.
- 14. PROVIDE A 1.25" CONDUIT FROM DOOR JUNCTION BOX BACK TO THE NEAREST ACCESSIBLE CABLE TRAY FOR ACCESS CONTROL CABLING.

GENERAL NOTES (THIS SHEET ONLY):

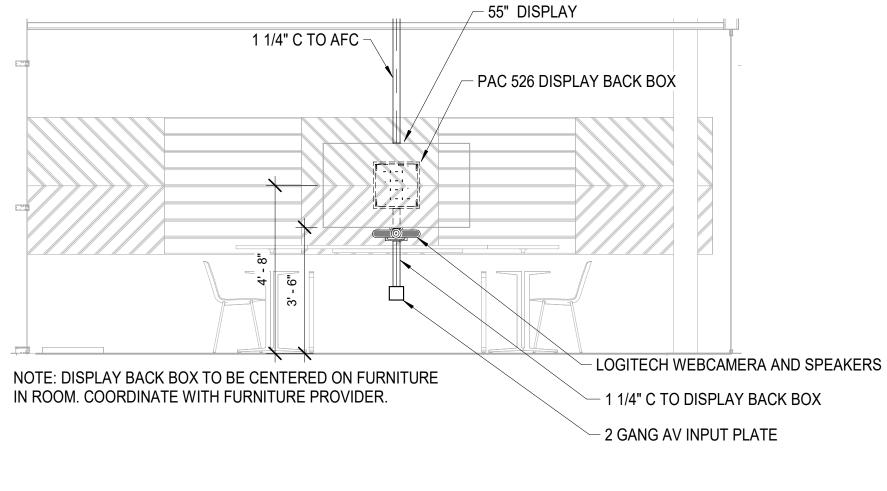
- 1. DETAILS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EQUIPMENT LOCATIONS. FLOOR PLANS INDICATE EQUIPMENT LOCATIONS.
- 2. COORDINATE DOOR ROUGH-IN AND WIRING REQUIREMENTS WITH THE FLOOR PLANS TO DETERMINE WHAT DEVICE IS REQUIRED AT EACH DOOR.
- 3. COORDINATE FINAL DOOR SCHEDULE AND DOOR HARDWARE SPECIFICATIONS.
- 4. RACEWAYS SHALL BE CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.
- 5. ROUTE CABLING ON J-HOOKS IN A NEAT BUNDLE HELD TOGETHER WITH PLENUM RATED VELCRO FASTENERS. CABLING INSTALLED ON J-HOOKS, AND CONDUIT RUNS SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL ELEMENTS.RUNNING CABLING OR CONDUIT DIAGONALLY ACROSS ANY SPACE INCLUDING AREAS CONCEALED ABOVE FINISHED CEILING SHALL NOT BE PERMITTED.
- 6. UNLESS OTHERWISE NOTED, DOOR LOCKS SHALL BE POWERED BY THE LOCKING HARDWARE POWER SUPPLIES LOCATED WITH THE SECURITY ENCLOSURES. EACH DOOR LOCK SHALL BE CONNECTED TO AN INDIVIDUALLY FUSED CLASS 2 RATED POWER CONNECTION AT THE SOURCE. DO NOT DOUBLE LUG.



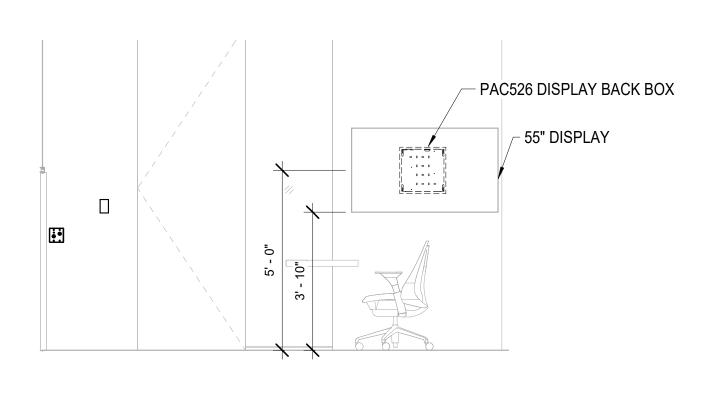




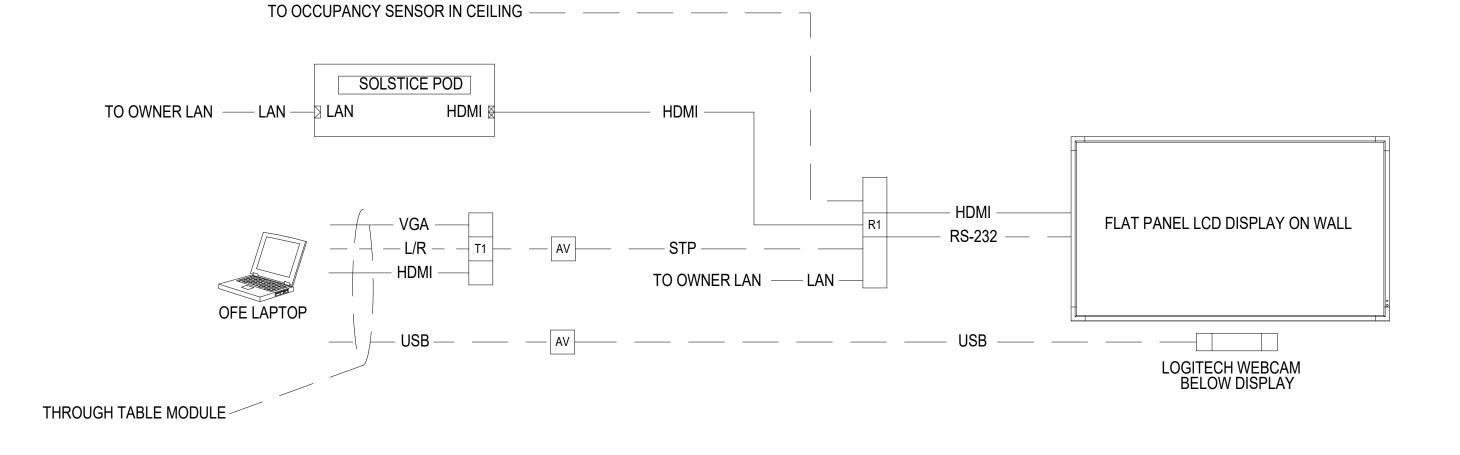
	LOW VOLTAGE DIAGRAM SIGNAL TYPES:
L/R	STEREO LINE LEVEL AUDIO
HDMI	HDMI HIGH RESOLUTION VIDEO SIGNAL
RS-232	RS-232 SERIAL SIGNAL
LAN	STANDARD ETHERNET CONTROL



2 TYPICAL HUDDLE DISPLAY WALL 3/8" = 1'-0"



4 DIGITAL SIGNAGE DISPLAY WALL PLAN NORTH 3/8" = 1'-0"



NOTES:	(THIS DIAGRAM ONLY)
1. WIRELESS PRESENTATION GATEW	AY AND RECEIVER TO BE
MOUNTED BEHIND DISPLAY ON WALL	
2. DISPLAY TO AUTOMATICALLY TURN	N ON VIA OCCUPANCY
SENSOR AS USER WALKS INTO THE F	ROOM, WITH INSTRUCTIONS
FOR HOW TO WIRELESSLY CONNECT	A MOBILE DEVICE.
3. DISPLAY TO AUTOMATICALLY SWIT	TCH TO LAPTOP SOURCE
UPON LAPTOP SOURCE SENSING.	
4. OCCUPANCY SENSOR TO BE MOUN	NTED IN THE CEILING.
5. ROUTE LAPTOP CABLES THROUGH	I TABLE MODULE PROVIDED

BY FURNITURE PROVIDER. AV CONTRACTOR SHALL PROVIDE ALL REQUIRED INSERTS TO MEET DESIGN INTENT. 6. MERSIVE SOLSTICE TO BE CONFIGURED BY GT OIT.

7. T1 / R1 = HDbT TRANSMITTER/RECEIVER (EXTRON HC 404)

1 HUDDLE SIGNAL FLOW DIAGRAM NTS

OFCI PLAYER HDMI

BASIS OF DESIGN EQUIPMENT LIST QTY MANUFACTURER DESCRIPTION MODEL 55" COMMERCIAL GRADE DISPLAY QM55F SAMSUNG 1 DISPLAY MOUNT LARGE LSM1U CHIEF CHIEF PAC526 DISPLAY BACK BOX SOLSTICE POD MERSIVE WIRELESS VIDEO GATEWAY SCALING SWITCHER/RECEIVER EXTRON HC 404 LOGITECH CONFERENCING WEBCAMERA/SPEAKERS MEETUP EXTRON OCCUPANCY SENSOR OCS100C MISC MISC ADAPTERS AND CABLES MISC 1

WARNING:

1. THESE LISTS SHOW BASIS OF DESIGN EQUIPMENT, HARDWARE QUALITY STANDARDS, AND DESIGN INTENT. THIS LIST IS NOT COMPREHENSIVE ANDDOES NOT SHOW ALL REQUIRED DEVICES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO: SCALERS, TRANSMITTERS, LENSES, ANTENNAS, POWER PROTECTION, AND ALL OTHER DEVICES REQUIRED TO BUILD A FULLY FUNCTIONAL SYSTEM BASED ON DESIGN INTENT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL HARDWARE TO DEVELOP A FULLY FUNCTIONAL SYSTEM, INCLUDING QUANTITY COUNTS, COORDINATION OF HARDWARE SIZES AND FORM FACTORS, AND ALL OTHER REQUIRED DEVICES.

2. THESE SCHEDULES REFLECT CURRECT TECHNOLOGY AT THE TIME OF ISSUE. IF EQUIPMENT LISTED HEREIN HAS BEEN DISCONTINUED OR REPLACEDAT THE TIME OF CONSTRUCTION, THE MANUFACTURER'S SUGGESTED REPLACEMENT OR APPROVED EQUAL MAY BE USED INSTEAD, AS LONG AS IT MEETS FUNCTIONAL REQUIREMENTS OF THE DESIGN.

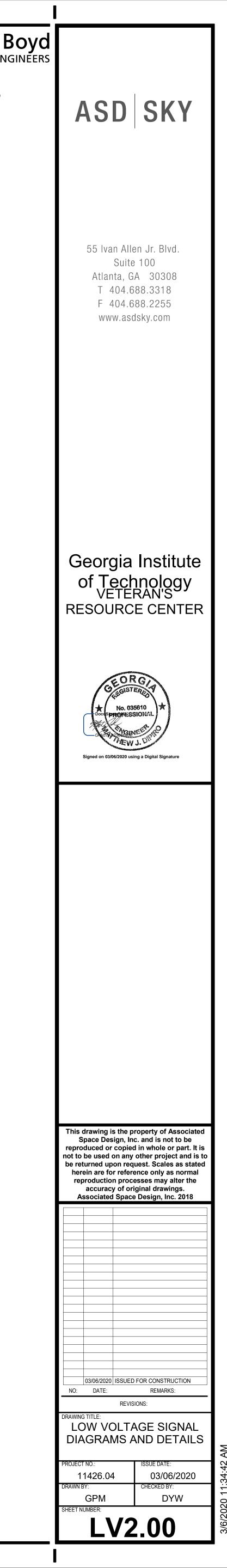
	BASIS OF DESIGN EQUIPMENT LIST							
QTY	DESCRIPTION	MODEL	MANUFACTURER					
1	55" COMMERCIAL GRADE DISPLAY	QM55F	SAMSUNG					
1	DISPLAY MOUNT LARGE	LSM1U	CHIEF					
1	DISPLAY BACK BOX	CHIEF	PAC526					
1	OFCI DIGITAL SIGNAGE PLAYER	OFCI	OFCI					
1	MISC ADAPTERS AND CABLES	MISC	MISC					

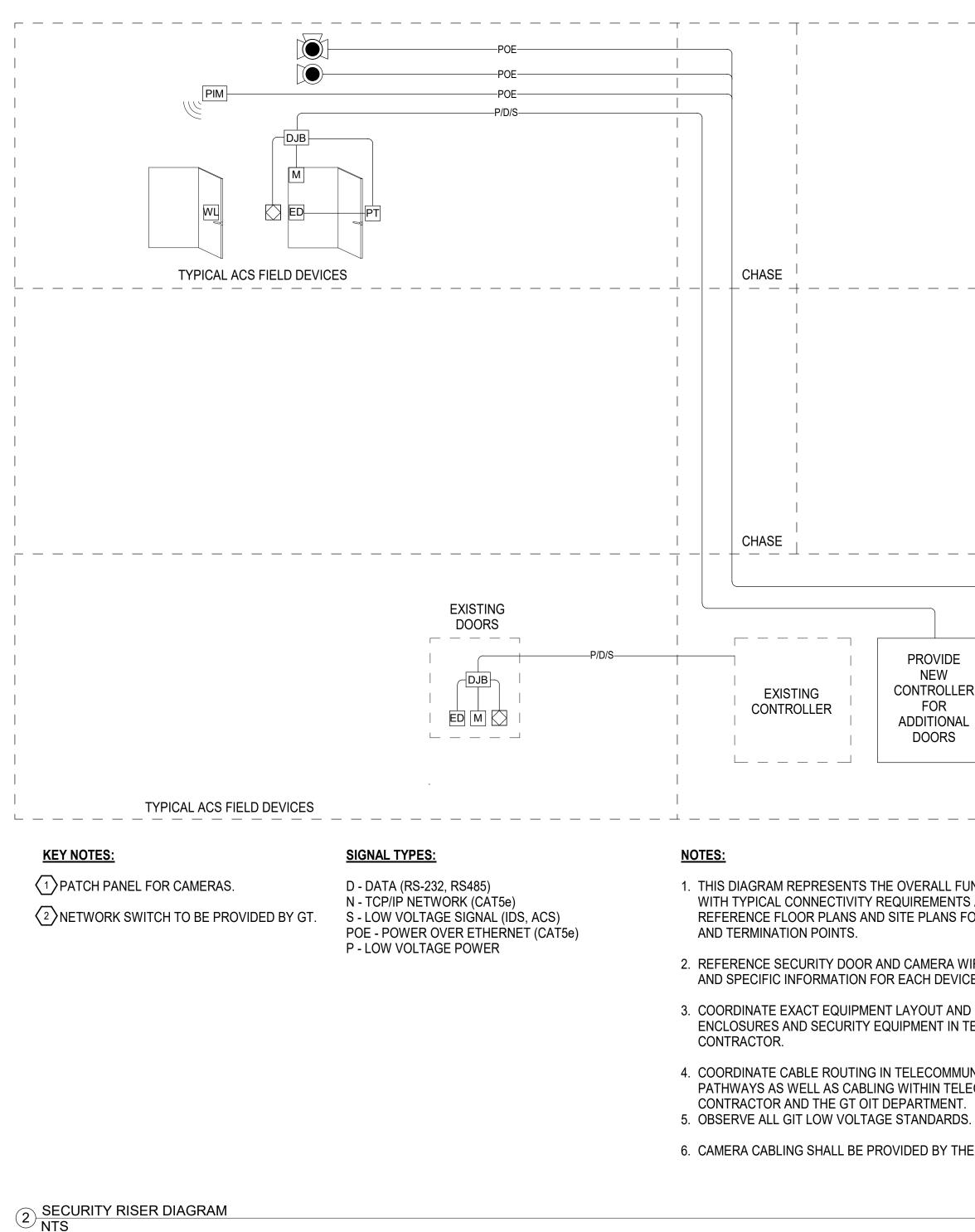
WARNING:

HDMI -

1. THESE LISTS SHOW BASIS OF DESIGN EQUIPMENT, HARDWARE QUALITY STANDARDS, AND DESIGN INTENT. THIS LIST IS NOT COMPREHENSIVE ANDDOES NOT SHOW ALL REQUIRED DEVICES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO: SCALERS, TRANSMITTERS, LENSES, ANTENNAS, POWER PROTECTION, AND ALL OTHER DEVICES REQUIRED TO BUILD A FULLY FUNCTIONAL SYSTEM BASED ON DESIGN INTENT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL HARDWARE TO DEVELOP A FULLY FUNCTIONAL SYSTEM, INCLUDING QUANTITY COUNTS, COORDINATION OF HARDWARE SIZES AND FORM FACTORS, AND ALL OTHER REQUIRED DEVICES.

2. THESE SCHEDULES REFLECT CURRECT TECHNOLOGY AT THE TIME OF ISSUE. IF EQUIPMENT LISTED HEREIN HAS BEEN DISCONTINUED OR REPLACEDAT THE TIME OF CONSTRUCTION, THE MANUFACTURER'S SUGGESTED REPLACEMENT OR APPROVED EQUAL MAY BE USED INSTEAD, AS LONG AS IT MEETS FUNCTIONAL REQUIREMENTS OF THE DESIGN.





		 	 LEVEL 2
		 	 LEVEL 1
ISTING	PROVIDE NEW CONTROLLER FOR ADDITIONAL DOORS	1 2 TELECOM EQUIPMENT RACK	
			 BASEMENT

1. THIS DIAGRAM REPRESENTS THE OVERALL FUNCTIONAL ARCHITECTURE OF THE SECURITY SYSTEMS WITH TYPICAL CONNECTIVITY REQUIREMENTS AND NOT ACTUAL EQUIPMENT QUANTITIES. REFERENCE FLOOR PLANS AND SITE PLANS FOR ACTUAL EQUIPMENT QUANTITIES AND LOCATIONS

2. REFERENCE SECURITY DOOR AND CAMERA WIRING DIAGRAMS FOR ADDITIONAL MOUNTING, CABLING AND SPECIFIC INFORMATION FOR EACH DEVICE TYPE.

3. COORDINATE EXACT EQUIPMENT LAYOUT AND SPACE REQUIREMENTS FOR SECURITY ENCLOSURES AND SECURITY EQUIPMENT IN TELECOM ROOM WITHTELECOMMUNICATIONS

4. COORDINATE CABLE ROUTING IN TELECOMMUNICATION CABLE TRAYS, SLEEVES AND OTHER PATHWAYS AS WELL AS CABLING WITHIN TELECOMMUNICATION ROOMS WITH TELECOMMUNICATIONS CONTRACTOR AND THE GT OIT DEPARTMENT.

6. CAMERA CABLING SHALL BE PROVIDED BY THE STRUCTURED CABLING CONTRACTOR

SECURITY SPECIFICATIONS:

	<u>S CONTROL AND ALARM MONITORING SYSTEMS (ACAMS)</u> General:
	 The ACAMS field equipment shall be an expansion of the existing Blackboard/S2 System, consisting of a hierarchy of acce Ethernet network. Provide hardware and software components to support the quantity and types of devices specified herein The hardware and software shall support the quantity and types of devices specified herein and indicated on the Drawings.
В. \$	B. Provide the quantity and type of software licenses required to support the devices at the levels of functionality specified here System Hardware:
	 Access control panels: each cabinet shall incorporate the following operational features: a. The access control system controllers shall be utilizing the following Series 3 Mercury Security open-architecture control
	 LP1502 Main field control board MR52-S3 hardwired door controllers
	3. MR16IN-S3 hardwired input control board.
	4. MR16OUT-S3 hardwired output control board.b. Manufacturer: S2 with Mercury Series 3 hardware.
4	 Wireless Card Reader/Lock Network Controller: Provide the type and quantity of wireless controllers that are compatible with and support the number of the wireless ca
	 The Schlage PIM400-1501 wireless access point shall be the physical interface device between the access control s up to 16 wireless AD-400 locks.
	S CONTROL PERIPHERAL EQUIPMENT
	Card Readers: . Georgia Tech Standard Card Readers are Owner provided and contractor installed, specifications are included for reference
	 a. Standard readers: surface-mounted style, combination 125 KHz proximity and 13.56 MHz contactless smart card reade b. Readers include single gang mounting adapter plate.
ΒI	c. Manufacturer: Blackboard DR4200. Power Supply Equipment:
	. Power Supplies:
	a. Devices requiring common voltages shall be powered from a common power supply at the locations indicated on the Dr outputs.
4	 Battery back-up: a. Standby batteries with charger shall power microprocessor-based units and panels in the event of a primary power failu
	 b. Batteries shall be sized to provide 100% capacity for 4 hours. c. Standby batteries shall be sealed lead-calcium, lead-acid, or nickel-cadmium. Power supplies shall be solid state.
	d. Controls shall be designed to maintain full battery charge when primary power is available.
	e. Batteries shall be recharged to 85% capacity within 24 hours from battery use.f. Microprocessor-based units and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of primary power and panels shall be automatically transferred to battery power upon loss of panels shall be automatically transferred to battery power upon loss of panels shall be automatically transferred to battery power upon loss of panels shall be automatically transferred to battery power upon loss of panels shall be automatically transferred to battery power upon loss of panels shall be automati
ETEC	g. Alarms shall not be initiated during switchover. An alarm shall be initiated upon failure of battery and/or primary power. TION DEVICES
A. I	Agnetic Contacts: . For hinged doors: balanced 0.75" round recessed switches for door head installation. Switches shall be magnetic, single-pe
	supervision. Switches shall be tested and proven capable of initiating an alarm signal when the protected door is opened 2
OWE	 Alarm contacts shall be designed for 12 V to 30 V DC, nonpolarized service. R SUPPLY EQUIPMENT
	Power Supplies: I.The access control system controllers and associated power supplies shall be combined in the same enclosure – Life Safe
	http://www.lifesafetypower.com/products/access-control-power-systems/unified-power-solutions/mclass-mercury. 2. Each FlexPower MCLASS™ Integrated Mercury power systems enclosure shall be connected to a 120V, 20A dedicated ci
	Mounted in a NEMA 1 hinged enclosure with power indicator integral with door.
4	 B. Rated at 1.2 times the current draw for devices served. For door locking hardware, coordinate with Division 8 for electrical Individually fused or PTC outputs to each device.
	 For lock power supplies provide input for connection to a UL listed fire alarm panel output, which upon initiation shall disco UL Class 2 rated outputs.
	 System Health and Performance Monitoring: Total System Health: Faults, output draw, battery state and temperatures.
	b. Output Condition: Current draw, voltage level and output status.
	c. Battery Activity: Charging current, discharge level, time to service.d. Power History: AC outages, time stamped faults, and enclosure tampering.
8	e. Fire Alarm activation. 3. System Controls:
	a. Independent output control for remote reset functions. b. Scheduled or manual battery checks.
ę). Web based service functions:
	 AC loss or trouble faults. Connected devices shall be able to be independently power cycled.
	c. Live monitoring of status. d. Remote manual battery testing.
	0. Manufacturer: Life Safety Power. ITION
A. (Configure field panel communications as indicated on the Drawings.
	Programming Requirements, Development, and Deliverables: . Provide separate fill-in-the-blank forms to the Owner's to solicit user input for programming the system. The questionnaires
	the ACAMS along with recommendations for responses. These questionnaires shall be finalized in a series of meetings wi questionnaires are completed, and the Owner has authorized the information to be entered into the respective ACAMS dat
	2. The questionnaires shall include two series: a. The first shall be to Georgia Tech OIT Department for network connectivity requirements.
	b. The second shall be devoted to controller, alarm input and door programming, or hardware related programming and sh
	 Controller naming schemes. Door and alarm input naming.
	 Door unlock time and relock time. Door held open time.
	 Door unlock and relock schedules. Display of alarm messaging, and any requirements for alarm responses and reporting.
	8. Upon completion, the programming questionnaires and associated programming database sheets shall be included in the
IDEO	MANAGEMENT SYSTEM (VMS)
A. (General: The VMS field equipment shall an expansion of the existing Georgia Tech Avigilon ACC VMS, consisting of a hierarchy of
	based Ethernet network. Provide hardware and software licensing to support the quantity and types of cameras specified h
	 The video signals from the cameras shall be recorded on server-recorders located in an existing Georgia Tech Data Cente Recorders shall be purchased by the respective Using Agency's IT department under State Contract.
	CAMERAS AND ACCESSORIES /ideo cameras shall have the following minimum features:
	. Signal and scanning systems: NTSC color.
4	 Image sensor: a. Progressive scan CCD or CMOS sensor, 0.33" or larger.
	 b. For 180° multi-sensor panoramic cameras: provide 3 separate 3.0-megapixel image sensors in dome enclosure, for a to c. For 360° multi-sensor panoramic cameras: provide 4 separate 3.0-megapixel image sensors in multi-sensor dome cam
	 Provide day/night (color/monochrome with IR filter removal) type cameras for outdoor areas. Digital processing with automatic white balance, automatic gain control, electronic shutter control, and backlight compensational processing with automatic white balance.
į	5. Event triggers: video motion detection (internal), active tampering alarm, and external input.
	 Dynamic range: minimum 65 db, except camera types specified to have wide dynamic range shall have a minimum of 100 Network interface: Ethernet 100 BaseT.
8	 Supported protocols: TCP/IP, UDP/IP, DHCP, HTTP, Multicast, PPPoE, RTP, and RTSP. Security: SSL-based authentication.
	0. ONVIF Profile S compliant.
	1. Compression: H.264 Baseline and Main Profile (MPEG-4 Part 10/AVC) and Motion JPEG, each stream independently sele 2. VBR (variable bitrate) or CBR (constant bitrate) encoding format selectable to correspond with various network conditions
	 Lens: varifocal, remote focus and control, auto-iris control, IR corrected, and designed for camera's megapixel resolution. Minimum illumination sensitivity requirements (50 IRE):
	a. Non-low-light cameras: using wide angle lens (3-9 mm); 0.4 lux (F1.2) in color mode, 0.03 lux (F1.2) in monochrome mode.
	b. Low light cameras: minimum illumination: 0.04 lux (F1.2) in color mode; 0.008 fc (F1.2) in monochrome mode.
	5. Frame rate at maximum resolution: capable of 30 frames or images per second.6. External I/O terminals: alarm input, alarm output.
	 Event triggers: video motion detection (internal), active tampering alarm, and external input. Power: IEEE 802.3af-2015 or IEEE 802.3at-2015 compliant PoE. Pan-tilt-zoom type cameras shall also be capable of operation.
	Camera Enclosures and Mounting Hardware:

- a. Compatible with the camera and lens provided. b. Operating range from 14°F to 100°F
- c. IK10 rated for impact resistant.
- a. Compatible with the camera, lens, and pan-tilt drive provided.
- b. Operating range from -22°F to 140°F.
- c. IP66 or NEMA 4X rated enclosure.
- d. IK10 rated for impact resistant.
- e. Sunshield where the video camera is exposed to direct sun. f. Enclosures and mounting hardware of the style and type indicated on the Drawings.
- C. Manufacturer:

EXECUTION

A. Systems shall be installed by skilled craftsmen in a manner conforming to industry standards for the craft. C. Each Using Agency shall install and program their respective expansion recorders.

Newcomb & Boyd

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ACCESS CONTROL AND ALARM MONITORING SYSTEMS (ACAMS)

bansion of the existing Blackboard/S2 System, consisting of a hierarchy of access controllers that communicate utilizing the Owner's TCP/IP based ftware components to support the quantity and types of devices specified herein and indicated on the Drawings. e quantity and types of devices specified herein and indicated on the Drawings.

enses required to support the devices at the levels of functionality specified herein, and as indicated on the Drawings.

corporate the following operational features: hall be utilizing the following Series 3 Mercury Security open-architecture controllers and sub-controllers.

oard. trol board

controllers that are compatible with and support the number of the wireless card reader/locks provided under Division 8 and indicated on the Drawings. access point shall be the physical interface device between the access control system and the AD-400 wireless locks. Each PIM400-1501 shall support

Owner provided and contractor installed, specifications are included for reference only: , combination 125 KHz proximity and 13.56 MHz contactless smart card readers with NFC. adapter plate.

be powered from a common power supply at the locations indicated on the Drawings. Provide power distribution modules with individually fused or PTC

shall be automatically transferred to battery power upon loss of primary power and return to primary power upon restoration.

essed switches for door head installation. Switches shall be magnetic, single-pole, double-throw type, providing dual circuit operation, designed for line oven capable of initiating an alarm signal when the protected door is opened 2" on the latch side. o 30 V DC, nonpolarized service.

associated power supplies shall be combined in the same enclosure – Life Safety Power - FlexPower MCLASS™ Integrated Mercury power systems cess-control-power-systems/unified-power-solutions/mclass-mercury. rcury power systems enclosure shall be connected to a 120V, 20A dedicated circuit from an emergency (non-life safety) power distribution panelboard. n power indicator integral with door. ces served. For door locking hardware, coordinate with Division 8 for electrical power requirements.

evice. nnection to a UL listed fire alarm panel output, which upon initiation shall disconnect power to selectable lock outputs

ted on the Drawings. d Deliverables:

e Owner's to solicit user input for programming the system. The questionnaires shall identify each programming item that requires user input to configure r responses. These questionnaires shall be finalized in a series of meetings with each of the Owner's designated agent until such time that the her has authorized the information to be entered into the respective ACAMS database.

r, alarm input and door programming, or hardware related programming and shall include:

requirements for alarm responses and reporting. nnaires and associated programming database sheets shall be included in the operation and maintenance documentation.

on of the existing Georgia Tech Avigilon ACC VMS, consisting of a hierarchy of IP cameras that communicate utilizing the Georgia Tech OIT's TCP/IP and software licensing to support the quantity and types of cameras specified herein and indicated on the Drawings. e recorded on server-recorders located in an existing Georgia Tech Data Center. ctive Using Agency's IT department under State Contract.

ras: provide 3 separate 3.0-megapixel image sensors in dome enclosure, for a total of 9 megapixels

ras: provide 4 separate 3.0-megapixel image sensors in multi-sensor dome camera, for a total of 12 megapixels. IR filter removal) type cameras for outdoor areas.

ance, automatic gain control, electronic shutter control, and backlight compensation.

rnal), active tampering alarm, and external input. mera types specified to have wide dynamic range shall have a minimum of 100 dB dynamic range.

ofile (MPEG-4 Part 10/AVC) and Motion JPEG, each stream independently selectable and capable of being transmitted to separate locations. rate) encoding format selectable to correspond with various network conditions. uto-iris control, IR corrected, and designed for camera's megapixel resolution.

ents (50 IRE): lens (3-9 mm); 0.4 lux (F1.2) in color mode, 0.03 lux (F1.2) in monochrome mode; using telephoto lens; 0.6 lux (F1.2) in color mode, 0.06 lux (F1.2) in

t-2015 compliant PoE. Pan-tilt-zoom type cameras shall also be capable of operation via 24 V AC power.

2. For cameras located in environmentally controlled areas (indoors) enclosures and mounting hardware shall have the following minimum features:

d. Enclosures and mounting hardware of the style and type indicated on the Drawings.

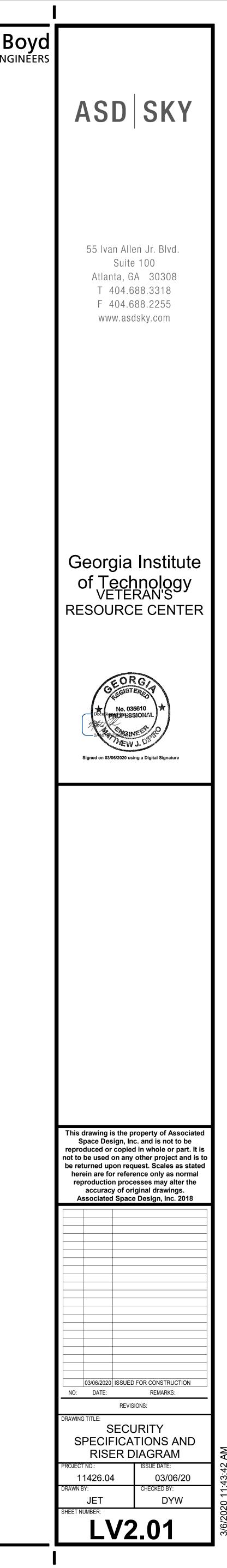
3. For each camera located in environmentally uncontrolled areas (outdoors) enclosures and appropriate mounting hardware shall have the following minimum features:

1. Avigilon H5 Series or newer for single sensor cameras, and H4 Series for multisensor cameras or the latest available version available from the manufacturer at the time of procurement.

B. Installation and testing of the systems shall be with directly coordinated with Georgia Tech Police Department Physical Security Specialist and fully documented.

D. A min 20' service loop shall be provided for each camera location. The total length of each cable drop shall not exceed the 295' limit.

E. All cameras shall be installed with DHCP enabled. The respective Using Agency's IT department shall reconfigure the cameras to static IP and integrate them into their system.



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.
- 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.
- 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
- 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

CONTRACT DOCUMENTS.

- 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 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 ROFESSIONAL'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, V_{ASD} = 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, S_s = 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:
- <u>LIVE LOAD</u> DEAD + LIVE LOAD <u>DEAD LOAD</u> FLOOR MEMBERS: 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.
- 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

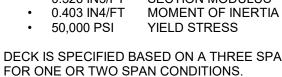
- SLABS ON COMPOSITE DECK
- DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC. DEPRESSIONS.
- BE DETERMINED BY THE DESIGN PROFESSIONAL.

STRUCTURAL STEEL

- STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE C. CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
- 2. BOLTS AND ANCHORS:
- PLANE) WITH MINIMUM 3/4" DIAMETER A325 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW.
- JOINTS USING HIGH-STRENGTH BOLTS).
- DIAMETER, UNLESS NOTED OTHERWISE. SIDE BY SIDE PACKAGING CONNECTEED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE
- FOR STEEL BUILDINGS AND BRIDGES".
- CONTRACTOR.
- JOB SITE DURING TIMES OF INSPECTION.
- OTHERWISE.

METAL DECK

- FORM DECKS AND ROOF DECKS.
- 2 INCH DEPTH THICKNESS 20 GAGE 0.326 IN3/FT SECTION MODULUS



COMPOSITE FLOOR CONSTRUCTION

- DOCUMENTS.
- 5. PLACEMENT OF CONTROL JOINTS IN THE COMPOSITE FLOOR SLAB IS PROHIBITED.

- 2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:
- 1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.

CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

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

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

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

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.

• STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE C. STRUCTURAL CHANNELS, MISCELLANEOUS PLATES AND CONNECTION MATERIAL SHALL

2.1 BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN SHEAR

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

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 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 2.4 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

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

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 3 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

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

6. SHEAR CONNECTORS SHALL BE 3/4" DIAMETER X 4-7/8" LONG HEADED STUDS UNLESS NOTED

1. DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS,

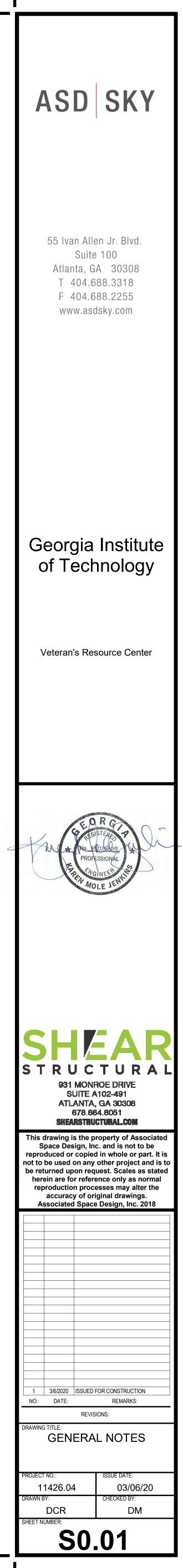
2. PROVIDE COMPOSITE FLOOR DECK WITH THE FOLLOWING MINIMUM PROPERTIES:

3. DECK IS SPECIFIED BASED ON A THREE SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED

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

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 19 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.



1.01 S	GENERAL ECTION INCLU						PART 1.01	5	- GENERAL SECTION INCLUDES
	. Structural su performance	bmittals inclu charts, nome	de shop drawings, design enclature charts, samples, tractor, manufacturer, supp	brochures and	other data prepared by the	ne		A	 A. Section summarizes the responsibility of the Contractor and the Structural Testing/Inspection Age 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
	some portior	n of the Projec y the Contrac							tests/inspections by the Testing/Inspection Agency, nor approvals by persons other than the Deperture of the Professional shall relieve the Contractor from his obligation to perform the work in accordance we Contract Documents.
A	SUBMITTAL PR	3 00 - Submit	ttals				1.02		RELATED SECTIONS A. Section 013330 - Structural Submittals.
	Information a	and Schedule	II, Contractor shall submit t s form given in Appendix I.			Submittal	1.03	F	B. Section 014000 - Quality Control Services. REFERENCES A. ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil
D	 Project r 		npanied by a transmittal let		owing information.				 Rock as Used in Engineering Design and Construction. B. ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel,
		tion of items s	ubmitted; identify work and and other pertinent data.	d product by Sp	pecification Section.			C	 Bituminous Materials as Used in Construction. C. American Council of Independent Laboratories - Recommended Requirements for Independent Laboratories Qualifications.
D	 Provide blan The type and 	k space on ea d number of s	ach submittal for the Desig ubmittals for each item sha	all be in accord	ance with Section 013000		1.04		SELECTION AND PAYMENT A. Owner will employ and pay for the structural testing/inspection services that are required by the
1.04 C	ONTRACTOR	RESPONSIB	ecific attention on the subm ILITY submittals in advance of in	-			1.05		Documents. STRUCTURAL TESTING/INSPECTION REQUIREMENT SUMMARY A. Specific structural testing/inspection requirements are given in the following specification sectior
	Professional Contractor s	sufficient time hall stamp an	e for review. d sign each sheet of shop	drawings and	product data, and sign or	initial each		,	Specification 03 2000 - Concrete Reinforcement Inspection
	WITHOUT T	HE CONTRA	nce with requirements of C CTOR'S STAMP OF REV VIEW AND RESUBMITTA	IEW WILL BE		EIVED			Specification 03 3000 - Concrete Testing/Inspection Specification 05 1000 - Structural Steel Inspection
С	Contractor s	hall understar	nd that the submittal of the he Contract Documents; or	required docui					Specification 05 3000 - Metal Deck Inspection
D	constitute co . It is the Cont	mpliance. tractor's respo	onsibility to furnish equipme	ent, materials,	and labor for the Project v	vhich meets	1.06		 STATEMENT OF SPECIAL INSPECTIONS A. Provide testing/inspection required to meet the provisions of the Schedule of Special Inspection Services below.
	items specifi	ed herein only	odes and authorities quoted y establish a minimum fund certain conformance of the	ctional and aes	thetic standard and it is ir	cumbent	PART	2 -	- MATERIALS
E	. By reviewing		nd submitting shop drawin				DADT		
	materials, m	ember sizes o	termined and verified all fie catalog numbers, and simil quirements of the Project a	ar data and tha	at he has checked and co		3.01	S	- EXECUTION STRUCTURAL PRECONSTRUCTION MEETING A. A structural preconstruction meeting may be conducted at the construction site by the Design
F	Contractor, s	shall not comr	ings, whether called for by mence until the submission	n has been revi	ewed by the Design Profe	essional.	2.02		Professional to discuss quality issues. The parties involved may be the Design Professional, Co Structural Testing/Inspection Agency, appropriate subcontractors, suppliers, and detailers.
		s and complie	ne Contractor verifies the a es with them without excep				3.02	A	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.
A		essional will re	eview submittals with rease					C	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 dire
В	the subject of	of the submitte	iew or corrections refer on als with the design concept der no conditions should th	of the project	and with the information g	jiven in the		E	 the Design Professional. E. Report work and materials not complying with Contract Documents immediately to the Contract Design Professional.
	dimensions, functions.	quantities, an	nd details of the items nor t	he approval of	an assembly in which the	item		F	F. Leave copies of field notes with the Contractor prior to leaving the construction site. Field notes include the message given to the Contractor, date, time of message, name of Contractor's
	in the submit	ttals.	iew shall not relieve the Co iew of submittals shall not						representative informed, type and location of work or materials tested/inspected, whether the work materials complies with Contract Documents and name of the Structural Testing/Inspection Age representative.
	deviation fro attention to t	m the require he deviation a	ments of the Contract Doc at the time of submission a	uments unless	the Contractor has direct	ed specific			G. Report and distribute results of tests/inspections promptly in the form of written reports as direct the Design Professional.
E	. Design Profe	he specific de essional's revi m or Contract	iew of submittals shall not	be construed a	s authorizing any change	in the	3.03		H. Structural Testing/Inspection Agency shall not alter requirements of Contract Documents, approregict any portion of the work, or perform duties of the Contractor. CONTRACTOR'S RESPONSIBILITIES
	HOP DRAWIN	GS clear and tho	rough manner. Title each o			identify	0.00	Æ	 A. Provide copy of Contract Documents to the Structural Testing/Inspection Agency. B. Arrange the preconstruction meeting to discuss quality issues.
В	8. Reproduction		by reference to sheet num I Drawings for shop drawing tor			iles will not			 Notify the Structural Testing/Inspection Agency sufficiently in advance of operations to allow ass of personnel and scheduling of tests. Cooperate with Structural Testing/Inspection Agency and provide access to work.
C D	 Identify field A copy of the 	dimensions; s e marked stru	show relationship to adjace ctural shop drawings with	ent or critical fe the Design Pro	atures of Work or product fessional's review stamp	s. is to be		E	E. Provide samples of materials to be tested in required quantities.F. Furnish copies of mill test reports when requested.
	RODUCT DAT		are pertinent; mark each c	ony of standar	h printed data to identify p	ortinont			 G. Provide storage space for Structural Testing/Inspection Agency's exclusive use, such as for stor curing concrete testing samples. H. Provide labor to assist the Structural Testing/Inspection Agency in performing tests/inspections.
~	products, ref performance	erenced to Spectrum	pecification Section and Ar cs, and capacities; wiring a	ticle number. S	Show reference standards	,	3.04	(OPTIONS A. If the Structural Testing/Inspection Agency is located at such a distance from the project that tra
В	6. Modify manu	ufacturer's sta	required clearances. Indard schematic drawings I specifically applicable to t						expenses will be a consideration, or if the amount of sampling performed is minor, and by mutua agreement of the Design Professional and Contractor, the Contractor may be requested to take and forward them to the Structural Testing/Inspection Agency for testing/inspection.
1.08 S	C. Provide man	ufacturer's pr	eparation, assembly, and i	installation inst	ructions.		SECTI	101	N 032000 - CONCRETE REINFORCEMENT
	specified, ind	dicating colors	facturer's standard finishes s, textures, and patterns. te functional characteristic	-					
С	required by I . Approved sa	Design Profes amples which	sional. are of proper size may be				1.01	F	RELATED SECTIONS A. Section 013330 - Structural Submittals. B. Section 014525 - Structural Testing/Inspection Agency Services.
		s: Provide ful	lentification. Il samples at Project, at loc cification Section. Install e					([C. Section 031000 - Concrete Formwork. D. Section 033000 - Cast-in-Place Concrete.
1.09 R		ace may be re	etained in completed work.		implete and milistred. Acc	eptable	1.02	F	REFERENCES A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials. B. ACI 301 - Standard Specifications for Structural Concrete.
	Contractor s	hall make the	required corrections. Upo	n request, resu	bmit one corrected set.			C	 ACI 315 - Details and Detailing of Concrete Reinforcement. ACI 318 - Building Code Requirements for Structural Concrete.
			ecific attention on the result n previous submission.	omittai to all rev	visions including those red	juested by			 ASTM A1064 - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, I and Deformed, for Concrete Reinforcement. ASTM A615 - Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete
A	Professional	's review stan	f shop drawings, copies of np to job site file, Record I	ocuments file,				C	Reinforcement. G. ASTM A706 - Standard Specification for Low-Alloy Steel Deformed Bars for Concrete Reinforce
В			other entities requiring info nce with and performed from		l drawings.			ŀ	 AWS D12.1 - Recommended Practices for Welding Reinforcing Steel Metal Inserts, and Connec Reinforced Concrete Construction. AWS D1.4 - Structural Weld Code - Reinforcing Steel.
PART 2 - Not U	PRODUCTS sed.						1.03	5	J. CRSI - Manual of Practice, and Documents 63 and 65. SUBMITTALS
PART 3 - Not U	EXECUTION							A	 A. Submit shop drawings as follows: 1. Notify Design Professional prior to detailing reinforcing steel shop drawings. 2. Indicate size, spacings, locations and quantities of reinforcing steel and wire fabric, bending
1010									cutting schedules, splice lengths, stirrup spacing, supporting and spacing devices. Detail re- steel in accordance with ACI 315 and CRSI Standards.
APPENDI	IX I								 Written description of reinforcement without adequate sections, elevations, and details is no acceptable. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing
SUBMITT	AL INFORMAT							E	 Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing not be provided to the Contractor. B. Submit a certification from each manufacturer or supplier stating that materials meet the require
								C	the ASTM and ACI standards referenced. C. Submit mill test reports.
							1.04	E	 D. Submit manufacturer's data for tensile and compressive splicers. E. Submit manufacturer's data including installation recommendations for dowel adhesive. QUALITY ASSURANCE
									A. Coordinate and schedule in a timely manner with the Structural Testing/Inspection Agency the for quality related items:
PROJ. MA			РНС	DNE ()	FAX ()			F	 Verify reinforcing steel for quantity, size, location, and support. Verify proper reinforcing steel concrete coverage. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 2.
			РНС				1.05	S	of the building code as required by Specification 01 4525. STORAGE AND PROTECTING
MOBILIZA	ATION DATE		PROJECTED SUBMITTA					A	A. Store reinforcing steel above ground so that it remains clean. Maintain steel surfaces free from materials and coatings which might impair bond.
	NDATION, CON	ICRETE	STRUCTURAL S		MASONRY			Ν	- PRODUCTS MATERIALS
	& REINFORCIN	NG							 A. Deformed reinforcing steel shall conform to ASTM A615, refer to Structural Drawings for grade (60 minimum). B. Welded steel wire fabric shall conform to ASTM A1064.
	BMITTAL	DATE	SUBMITTAL Fabricator / Erector	DATE	SUBMITTAL	DATE	2.02	A A	ACCESSORY MATERIALS A. Annealed steel tie wire shall be 16-1/2 gage minimum.
Concrete	Mix Design		Qualifications				2.03	E	B. Bar supports shall be plastic-tipped steel Class I bar supports conforming to CRSI Specifications Concrete brick may be used to support reinforcement to obtain proper clearance from earth. SPLICERS
			Drawings				2.03	A	A. Tensile splicers shall be capable of developing 125% of the reinforcing steel ASTM specified min yield strength.
			Deck				2.04		B. Compression splicers shall be the mechanical type such that the compression stress is transmit end bearing held in concentric contact. DOWEL ADHESIVE
							2.04		A. Adhesive for reinforcing dowels in existing concrete shall conform to ASTM C881-13, Type IV, C CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two compone
					WOOD				adhesive system contained in side by side packaging connected to a mixing nozzle which thorous mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation
					SUBMITTAL	DATE			Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use cracked concrete.
Remarks:							PART 3.01	F	- EXECUTION FABRICATION A Foreignet steel in accordance with ACI 318 and CRSI standards
Romarks.									 Fabricate steel in accordance with ACI 318 and CRSI standards. Bend bars cold. Do not heat or flame cut bars. No field bending of bars partially embedded in c is permitted, unless specifically approved Design Professional and checked by Testing and Insp
	TED BV							0	Agency for cracks. C. Weld only as indicated. Perform welding in accordance with AWS D12.1 and or AWS D1.4.
	APPENDIX I			UATE			3.02	ll A	 D. Tag reinforcing steel for easy identification. INSTALLATION A. Before placing concrete, clean reinforcement of foreign particles and coatings.
								E	B. Place, support, and secure reinforcement against displacement in accordance with ACI 318 and standards. Do not deviate from alignment or measurement.
								C	 C. Place concrete beam reinforcement support parallel to main reinforcement. D. Locate welded wire fabric in the top third of slabs. Overlap mesh one lap plus two inches at side ioints.

SECTION 013330 - STRUCTURAL SUBMITTALS

SECTION 014525 - STRUCTURAL TESTING/INSPECTION AGENCY SERVICES

of the Contractor and the Structural Testing/Inspection Agency in n specified in the Contract Documents. rofessional in the administration of the contract, nor tion Agency, nor approvals by persons other than the Design r from his obligation to perform the work in accordance with the

f Agencies Engaged in Testing and/or Inspection of Soil and d Construction or Inspection and Testing Agencies for Concrete, Steel, and

ratories - Recommended Requirements for Independent tural testing/inspection services that are required by the Contract

QUIREMENT SUMMARY uirements are given in the following specification sections:

by be conducted at the construction site by the Design The parties involved may be the Design Professional, Contractor, ppropriate subcontractors, suppliers, and detailers. SENCY'S RESPONSIBILITIES

Contract Documents, the applicable codes, and as directed by g with Contract Documents immediately to the Contractor and ntractor prior to leaving the construction site. Field notes shall actor, date, time of message, name of Contractor's

ion of work or materials tested/inspected, whether the work or nents and name of the Structural Testing/Inspection Agency's spections promptly in the form of written reports as directed by

nall not alter requirements of Contract Documents, approve or n duties of the Contractor.

the Structural Testing/Inspection Agency. discuss quality issues. Agency sufficiently in advance of operations to allow assignment

requested sting/Inspection Agency's exclusive use, such as for storing and

ncy is located at such a distance from the project that travel e amount of sampling performed is minor, and by mutual nd Contractor, the Contractor may be requested to take samples

rete Reinforcement. for Structural Concrete. or Carbon-Steel Wire and Welded Wire Reinforcement. Plain

r Deformed and Plain Billet-Steel Bars for Concrete r Low-Alloy Steel Deformed Bars for Concrete Reinforcement. for Welding Reinforcing Steel Metal Inserts, and Connections in

nd quantities of reinforcing steel and wire fabric, bending and irrup spacing, supporting and spacing devices. Detail reinforcing nd CRSI Standards.

t without adequate sections, elevations, and details is not s for shop drawings is not permitted. Electronic drawing files will

acturer or supplier stating that materials meet the requirements of and compressive splicers.

anner with the Structural Testing/Inspection Agency the following size, location, and support.

rete coverage. ncy shall provide special inspections as required by Chapter 17 cification 01 4525.

that it remains clean. Maintain steel surfaces free from air bond.

m to ASTM A615, refer to Structural Drawings for grade (Grade o ASTM A1064.

eloping 125% of the reinforcing steel ASTM specified minimum nanical type such that the compression stress is transmitted by

ng concrete shall conform to ASTM C881-13, Type IV, Grade 3, epoxy content. Adhesive shall consist of a two component ide packaging connected to a mixing nozzle which thoroughly nto the hole. Adhesive shall have passed ICC Evaluation for long term creep and be specifically approved for use in

at bars. No field bending of bars partially embedded in concrete ed Design Professional and checked by Testing and Inspection g in accordance with AWS D12.1 and or AWS D1.4.

nent of foreign particles and coatings. ent against displacement in accordance with ACI 318 and CRSI ent or measurement. oport parallel to main reinforcement.

d of slabs. Overlap mesh one lap plus two inches at side and end E. Furnish and install dowels or mechanical splices at intersections of walls, columns and piers to permit continuous reinforcement or development lengths at such intersections. F. Maintain cover and tolerances in accordance with ACI and CRSI Specifications, unless indicated

A. Do not splice reinforcement except as indicated on Structural Drawings. B. Tension couplers may be used and installed in accordance with manufacturer's specifications.

otherwise on Structural Drawings.

3.04 DOWELS IN EXISTING CONCRETE

3.03 SPLICES

A. Install dowels and dowel adhesive in accordance with manufacturer's recommendations.

B. Minimum embedment length shall be 12 bar diameters, unless noted otherwise.

for proper completion of the work. 1.02 RELATED SECTIONS A. Section 013300 - Structural Submittals. 3. Section 014525 - Structural Testing/Inspection Agency Services. . Section 032000 - Concrete Reinforcement. 1.03 REFERENCES A. ACI 214 - Recommended Practice for Evaluation of Strength Test Results of Concrete. B. ACI 301 - Specifications for Structural Concrete for Buildings. C. ACI 302.1 - Guide for Concrete Floor and Slab Construction. D. ACI 304 - Guide for Measuring, Mixing, Transporting and Placing Concrete. ACI 305 - Hot Weather Concreting. -. ACI 306 - Cold Weather Concreting. G. ACI 308 - Standard Practice for Curing Concrete. H. ACI 309 - Guide for Consolidation of Concrete. I. ACI 318 - Building Code Requirements for Structural Concrete. J. ASTM C31 - Standard Practice for Making and Curing Concrete Test Specimens in the Field. K. ASTM C33 - Standard Specification for Concrete Aggregates .. ASTM C39 - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens. M. ASTM C94 - Standard Specification for Ready-Mixed Concrete. N. ASTM C138 - Standard Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete. O. ASTM C143 - Standard Test Method for Slump of Hydraulic Cement Concrete. P. ASTM C150 - Standard Specification for Portland Cement. Q. ASTM C172 - Standard Practice for Sampling Freshly Mixed Concrete. R. ASTM C173 - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method S. ASTM C230 - Standard Specification for Flow Table or Use in Tests of Hydraulic Cement. T. ASTM C260 - Standard Specification for Air-Entraining Admixtures for Concrete. U. ASTM C494 - Standard Specification for Chemical Admixtures for Concrete. V. ASTM C618 - Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete. W. ASTM E1155 - Standard Test Method for Determining Floor Flatness and Levelness Using the F-Number System. X. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete. 1.04 NOTICE A. Notify Design Professional and Structural Testing/Inspection Agency not less than 48 hours prior to placing concrete. 1.05 QUALITY ASSURANCE A. Structural Testing/Inspection Agency shall perform the following quality related items: 1. Examine concrete in truck to verify that concrete appears properly mixed. 2. Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments. 3. Mold four specimens per set for compressive strength testing; one set for each 75 cubic yards of each mix design placed in any one day. For each set molded, record: a. Slump b. Air content c. Unit weight d. Temperature, ambient and concrete e. Location of placement Any pertinent information, such as addition of water, addition of admixtures, etc. Perform one 7-day and two 28-day compressive strength tests. (Use one as a spare to be broken as directed by the Design Professional if compressive strengths do not appear adequate.) 4. Report in writing, as directed by the Design Professional, on the same day that tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break. 5. Test concrete slabs for specified flatness and levelness in accordance with ASTM E1155. As a minimum, test three placements: the first placement and two additional placements as directed by the Design Professional. If the tested placement does not meet the specified overall values, test the next placement.

A. Section includes cast-in-place concrete work indicated in the Contract Documents or otherwise required

B. The ready-mixed concrete plant shall be certified for conformance with the requirements of the National Ready Mix Concrete Association. C. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required in Specification 01 4525. 1.06 CONCRETE MIX DESIGN

A. Establish concrete mix design proportions in accordance with ACI 318, Chapter 5. B. Submit concrete mix designs. Include the following:

1. Type and quantities of materials. Slump.

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 SECTION INCLUDES

. Air content 4. Fresh unit weight.

5. Aggregates sieve analysis. 6. Design compressive strength.

7. Location of placement in structure. 8. Method of placement.

9. Method of curing.

10. Seven-day and 28-day compressive strengths. C. Concrete supplier shall submit certifications that the materials used meet applicable ASTM Specifications. Mix designs not conforming to the above will be rejected.

- 1.07 SLUMP A. Design concrete with a maximum slump of five inches.
- B. If a slump greater than five inches is desired it shall be achieved with a high-range water reducer. Design the concrete mix with a high range water reducer slump of two and one-half inches plus or minus one and one-half inches. The maximum slump after high-range water reducers are added shall be eight inches.
- 1.08 FRESH UNIT WEIGHT A. Normal weight concrete shall have a fresh unit weight of 140 to 152 pcf.
- 1.09 AIR CONTENT
- A. No entrained air content is required in concrete placed in the foundation. B. For normal weight concrete, entrained air content shall be four and one-half percent plus or minus one and one-half percent, unless specified otherwise. 1.10 WATER/CEMENT RATIO
 - A. Concrete elements shall have a maximum water cement ratio of 0.5, unless noted otherwise. B. Air entrained concrete elements shall have a maximum water cement ratio of 0.45.
- 1.11 SUBMITTALS A. Submit a concrete mix design as specified above for each type of concrete included in the work.
 - B. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the ASTM and ACI standards referenced. C. Submit manufacturer's data including Product Data and installation instructions for the following items.
 - Manufacturer's Data shall include the name of the manufacturer and date of the publication. All manufacturers' data shall be maintained at the project site by the contractor. Admixtures
 - 2. Curing materials 3. Joint sealing materials
 - 4. Expansion joint filler 5. Patching compounds

6. Bonding agents

PART 2 - PRODUCTS

2.01 MATERIALS A. Materials designated by specific manufacturer's trade names are approved, subject to compliance with the quality and performance indicated by the manufacturer. Instructions and specifications, published by the manufacturer of such materials are included in and are a part of these specifications. Upon request, provide certification from manufacturer or supplier that materials designated by reference to ASTM and

- ACI standards meet the requirements of these standards. 2.02 CONCRETE STRENGTH
- A. Provide concrete strengths indicated on the Structural Drawings. 2.03 CEMENT
- A. Portland cement shall conform to ASTM C150, Type I, unless noted otherwise. Use one brand only.
- 2.04 AGGREGATE A. Fine aggregate shall conform to ASTM C33. B. Coarse aggregate of gravel or crushed stone shall conform to ASTM C33, Class 3M. Size coarse
- aggregate in accordance with ACI 318. 2.05 WATER A. Water shall be potable and free of deleterious substances in accordance with ACI 318.
- 2.06 AIR ENTRAINING AGENT A. Air entraining agent shall conform to ASTM C260.
- 2.07 WATER REDUCER A. Water reducing agent shall conform to ASTM C494.
- 2.08 HIGH-RANGE WATER REDUCER A. High-range water reducers (superplasticizers) shall conform to ASTM C494
- 2.09 CHLORIDE
- 2.10 CURING COMPOUND
- A. An acrylic curing compound meeting the requirements of ASTM C1315 and all local, state and federal Volatile Organic Carbon regulations may be used at the Contractor's option.
- A. Fly ash shall be Class F fly ash with a loss on ignition of less than five percent or Class C fly ash with a
- 2.12 ACCELERATORS
- 2.13 RETARDERS

A. Use no chlorides of any form in concrete.

2.11 FLY ASH loss on ignition of less than one percent in accordance with ASTM C618.

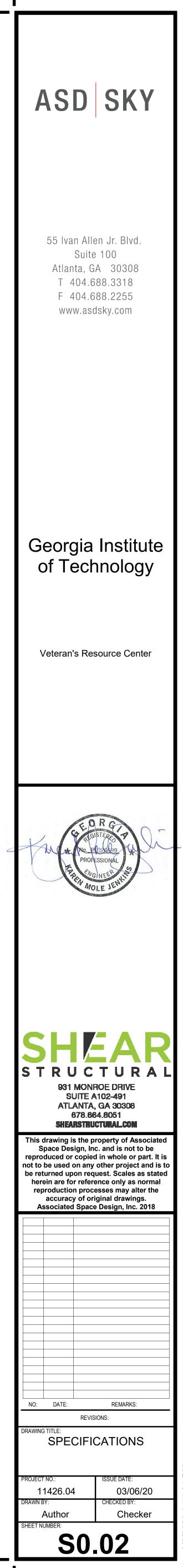
A. Non-chloride accelerators shall conform to ASTM C494.

A. Retarders shall conform to ASTM C494.

PART 3 - EXECUTION 3.01 HIGH-RANGE WATER REDUCERS

A. High-range water reducers are to be added at dosage recommended by the manufacturer. The slump of the concrete shall be one to four inches at the time the high-range water reducers are added. Do not permit fresh concrete containing superplasticizers to come in contact with fresh concrete not containing superplasticizers

- 3.02 ADDITION OF WATER AT JOB SITE A. Provide batch tickets indicating the amount of mix water withheld at the batch plant for each load of concrete delivered. Water may be added to the batch only if neither the maximum permissible water/cement ratio nor the maximum slump is exceeded. B. Water shall not be added to the batch after the required on-site testing has been performed. 3.03 PLACEMENT OF CONCRETE
- A. Deposit concrete as near as practical to final position to prevent segregation of concrete. B. Do no flowing of concrete with vibrators.
- Place floors and slabs in accordance with ACI 302.
- D. Do not use aluminum equipment in placing and finishing concrete. E. Place thickened slabs for partitions integral with floor slabs.
- F. Prepare place of deposit, mix, convey, place, and cure concrete in accordance with ACI 301, ACI 304, and ACI 318. Wet forms before placing concrete.
- 3.04 TIME LIMIT A. Deposit concrete within one and one-half hours after batching.
- 3.05 VIBRATION A. Consolidate concrete in accordance with ACI 301 and ACI 309.
- 3.06 CURING A. Begin curing procedures immediately following the commencement of the finishing operation.
 - B. Cure concrete in accordance with ACI 308. Keep the concrete surface moist. If an acrylic curing compound is used, apply in accordance with manufacturer's recommendations to surfaces of concrete not protected for five days by formwork. Do not use curing compounds in areas to receive material that does not adhere to concrete cured with a curing compound unless the curing compound is water soluble.
- 3.07 ENVIRONMENTAL PROVISIONS A. Perform cold weather concreting in accordance with ACI 306.
- B. Perform hot weather concreting in accordance with ACI 305. C. Protect concrete from drying and excessive temperature for the first seven days.
- D. Protect fresh concrete from wind. 3.08 CONTRACTION JOINTS
- A. Obtain Design Professional 's approval for location of contraction joints. B. Do not place contraction joints in framed floors, composite slabs, or shear walls.
- 3.09 CUTTING CONCRETE A. Obtain Design Professional's written approval prior to cutting concrete for installation of other work.
- 3.10 PATCHWORK AND REPAIRS A. Notify Design Professional of any defective areas in concrete to be patched or repaired. Repair and patch defective areas with non-shrink grout. Cut out defective areas over two inches in diameter to solid concrete, but not less than a depth of one inch. Make edges of cuts perpendicular to the concrete
- surface. 3.11 CONCRETE FINISHES
 - A. Finish concrete in accordance with ACI 301. B. Finish concrete slabs to flatness and levelness tolerances which correspond to F_F 25/F_L 20 minimum
 - overall for composite of all measured values and F_F 17/F_L 12 minimum for any individual floor section. C. For concrete slabs to receive wood flooring, finish to flatness and levelness tolerances which
 - correspondence to F_F 45/F_L 30 minimum overall for composite of all measured values and F_F 30/F_L 20 minimum for any individual floor section.
 - D. For shored construction, F_L values do not apply if slab is tested after shoring is removed. E. Slabs, which do not meet the flatness and levelness criteria shall be repaired or replaced.



SECT	ON 051000 - STRUCTURAL STEEL	PART 3.01	3 - EXECUTION GENERAL
PART	1 - GENERAL	0.01	A. Fabricate and erect structural steel in accordance with AISC S
1.01	SECTION INCLUDES		Practice.
	A. Section includes fabrication and erection of structural steel indicated in the Contract Documents or		B. Notify Design Professional and Structural Testing/Inspection A
	otherwise required for proper completion of the work.		steel fabrication and erection.
1.02	RELATED SECTIONS	3.02	CONNECTIONS
	A. Section 013330 - Structural Submittals.		A. Provide a minimum of two fasteners at each bolted connection
	B. Section 014525 - Structural Testing/Inspection Agency Services.		 B. Ensure fasteners are lubricated prior to installation.
	C. Section 053000 - Metal Decking.		C. Provide high-strength bolted connections in accordance with A
1.03	REFERENCES		using ASTM A325 or A490 Bolts.
	A. AISC - Code of Standard Practice for Steel Buildings and Bridges.		D. Provide connections for expansion and contraction where stee
	B. AISC - Standard Specification for Structural Steel Buildings, 14th Edition.		concrete columns and at expansion joints. Secure nuts on bo
	C. AISC - Specifications of Structural Joints using ASTM A325 or A490 Bolts approved by the Research	2.02	
	Council in Structural Connections.	3.03	FASTENER INSTALLATION A. Bolts shall be installed in holes of the connection and brought
	D. AWS D1.1 - Structural Welding Code.		progressing systematically from the most rigid part to the free
	 AWS A5.1 - Specification for Carbon Steel Electrodes for Shield Metal Arc Welding. AWS A5.5 - Specification for Low-Alloy Steel Covered Arc Welding Electrodes. 		relaxation of the bolts.
	G. AWS A5.5 - Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding.		B. High-strength bolts installed shall have a hardened washer un
	H. AWS A5.20 - Specification for Carbon Steel Electrodes for Flux Cored Arc Welding.		C. Installation and tightening of bolts shall conform to the AISC S
	I. SSPC - Steel Structures Painting Manual.	3.04	HEADED STUDS
	J. ASTM A36 - Standard Specification for Structural Steel.	0.01	A. Headed studs shall be welded in accordance with AWS D1.1.
	K. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.		B. Locate shear studs directly over the web of beams with flange
	L. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.		C. The minimum center spacing shall be 6 diameters along the lo
	M. ASTM A780 - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized		diameters transverse to the longitudinal axis of the beam.
	Coatings.		D. Where double rows of shear studs are required, begin double
	N. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.		E. Remove shields after welding studs.
	O. ASTM A325 - Standard Specification for Structural Bolts, Heat Treated, 120/105 KSI Minimum Tensile	3.05	EXPANSION ANCHOR INSTALLATION
	Strength.		A. Install in accordance with manufacturer's recommendation.
	P. ASTM A490 - Standard Specification for Heat-Treated Steel Structural Bolts, 150 KSI Minimum Tensile		B. Minimum embedment shall be equal to 4.5 times the anchor d
	Strength.	3.06	ADHESIVE ANCHOR INSTALLATION
	Q. ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Tubing in		A. Install in accordance with manufacturer's recommendation.
	Rounds and Shapes.		B. Minimum embedment shall be equal to 4.5 times the anchor d
	R. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural	3.07	WELDING
	Tubing.		A. Comply with AWS Structural Welding Code. Use prequalified
	S. ASTM A992 - Standard Specification for Steel for Structural Shapes For Use in Building Framing		B. Provide end returns where fillet welds terminate at end or side
	T. ASTM F436 - Standard Specification for Hardened Steel Washers.		distance of not less than two times the nominal size of the well
1.04	U. ASTM F844 - Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use.		C. Complete penetration joints shall be backgouged to sound me have 1/4-inch root opening with 3/16 x 1 inch backing bar. Acc
1.04	SUBMITTALS		holes is not required.
	 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 		D. Remove all slag and weld splatter from deposited weld metal.
	be provided to the Contractor.	3.08	SPLICING
	C. Submit shop drawings for review.	0.00	A. Splice members only where indicated unless authorized in wri
	D. Shop drawings shall clearly indicate the profiles, sizes, ASTM Grade, spacings and locations of all		 B. Provide shim plates at bottom flange splice at continuous bea
	structural steel members, including connections, attachments, anchorages, framed openings, sizes and	3.09	CUTTING
	types of fasteners, method of tightening fasteners, cambers, and the number, type and spacing of the		A. Do not use flame cutting to correct errors unless authorized in
	headed shear connectors.		B. Re-entrant corners shall have a minimum radius of one inch a
	E. For connections and elements designed by the contractor, submit shop drawings and calculations		gouges resulting from flame cutting shall be finished to a smoo
	sealed by an engineer licensed in the project state.	3.10	MILL SCALE
	F. For record only, submit written welding procedures for each type of welded joint used in accordance with		A. Remove loose mill scale.
	Appendix E of the AWS Structural Welding Code.	3.11	BOLT HOLES
	G. Maintain at construction office mill certification that the steel supplied meets the specifications.		A. Cut, drill, or punch holes perpendicular to metal surfaces. Do
	H. Maintain at construction office certification that high strength bolts supplied meet the specifications.		punch holes in bearing plates. Remove burrs.
	 Submit certification that the fabricator meets the required qualifications. If fabricator has to have an 	3.12	PAINTING
	independent testing agency to inspect fabrication as required by these specifications, submit the name		A. Paint steel that is not encased in concrete, plaster, or sprayed
	and qualifications of the independent testing agency.		to be field welded, contact surfaces of slip critical connections
	J. For each approved fabricator that is exempt from Special Inspections of shop fabrications and		B. Field paint as required steel that has been welded or that is ur
	implementation procedures in accordance with Section 1704.2 of the Building Code, submit "Fabricator's	0.40	tightened.
	Certificate of Compliance". Provide copies of fabricator's certification or building code evaluation	3.13	GALVANIZING
	services report and fabricator's quality control manual.		A. Galvanize shelf angles that support the exterior building vener
	K. Submit certification that the erector meets the required qualifications.		 B. Galvanize environmentally exposed steel, for example mecha C. Touch-up welds and abrasions in galvanized members in according
	L. Upon request, submit the erection sequence and procedures to be used by the steel erector.		o. Touch-up were and astasions in gaivanized members in acco
	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 fitup. 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 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.
- B. Properly store electrodes to maintain flux quality.
- 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

accordance with ASTM B695, Class 65, Type I.

- 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

ccordance with AISC Specifications and Code of Standard

ral Testing/Inspection Agency at least 48 hours prior to structural

each bolted connection. installation.

ns in accordance with AISC Specifications for Structural Joints contraction where steel beams connect to concrete walls or

nts. Secure nuts on bolts against loosening. (Dent threads with a onnection and brought to snug tight condition. Tighten connection

ost rigid part to the free edges of the connection to minimize a hardened washer under the element turned in tightening. conform to the AISC Specifications for Structural Joints.

dance with AWS D1.1. eb of beams with flanges less than 0.3 inches thick. diameters along the longitudinal axis of the beam and 4 axis of the beam.

required, begin double rows at each end of the beam.

4.5 times the anchor diameter unless noted otherwise.

r's recommendation. 4.5 times the anchor diameter unless noted otherwise.

Code. Use prequalified weld procedures. terminate at end or sides. Returns shall be continuous for a nominal size of the weld. ckgouged to sound metal before the second side is welded or 1 inch backing bar. Access holes are required. Filling access

deposited weld metal. nless authorized in writing by the Design Professional.

plice at continuous beam splices with different depths. ors unless authorized in writing.

num radius of one inch and be free of notches. Notches and all be finished to a smooth appearance.

to metal surfaces. Do not enlarge holes by burning. Drill or e burrs.

ete, plaster, or sprayed fireproofing. Do not shop paint in areas slip critical connections, or areas to receive special finishes. en welded or that is unpainted after connections have been

exterior building veneer, for example brick shelf angles. eel, for example mechanical equipment supports. nized members in accordance with ASTM A780.

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 013330 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.
- . 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 (Galvannealed) 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.
 - 2. 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. 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 gage.
- 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/180 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

PART 3 - EXECUTION 3.01 GENERAL

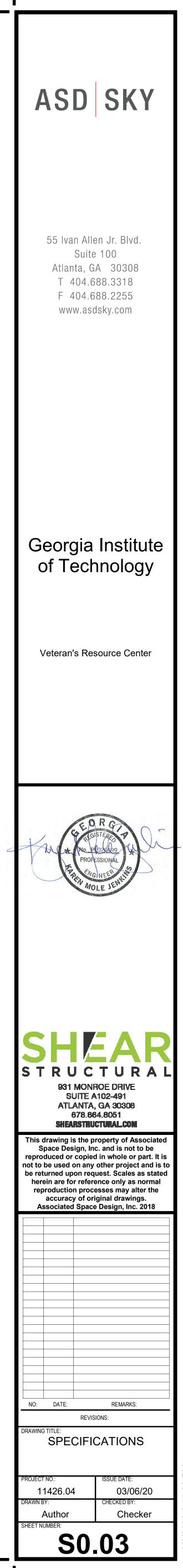
A. Load conditions shall be in accordance with Steel Deck Institute sequential loading formulas. B. Installer must examine the areas and conditions under which metal decking is to be installed and notify

deck, between supports, shall not exceed 0.8 times the yield strength of the steel.

- 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 running 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
- 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.



SCHEDULE OF SPECIAL INSPECTION SERVICES PROJECT GT VETERANS RESOURCE CENTER											
PROJECT MATERIAL / ACTIVITY	GT VETERANS RE		APPLICABLI	E TO THIS PROJECT							
1705.1.1 Special Cases (work	JERVICE	Y/N	EXTENT	AGENT* DATE COMPLETE							
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, anchor embedment and tightening torque	Field inspection	Ν	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, shall be reviewed to verify compliance with design specifications.	Field inspection	Ν	Periodic or as required by the research report issued by an approved source								
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 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	Y	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	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 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 b) Direct tension indicator			Periodic								
c) Twist-off type tension control bolt			Periodic								
d) Turn-of-nut without matching markings e) Calibrated wrench 2) Snug-tight joints c. Inspection tasks After Bolting		Y	Continuous Continuous Periodic								
(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)7. Verify member locations, braces,	Field inspection	N	Periodic								
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: a. Inspection tasks Prior to Deck Placement (Perform the QA tasks 	Shop (3) and field inspection	Y									
listed in SDÌ QA/QC, Appendix 1 Table 1.1) b. Inspection tasks After Deck Placement (Perform the QA tasks			Perform (4) Perform (4)								
listed in SDI QA/QC, Appendix 1 Table 1.2) 4. Cold-formed steel deck welding:	Shop (3) and field	Y	. ,								
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)	inspection		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			Perform (4)								

SCHEDULE O PROJECT	GT VETERANS RE	
MATERIAL / ACTIVITY	SERVICE	
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection	Y/N Y
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)		
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)		
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)		
1705.2.3. Open-Web Steel Joists and	Joist Girders	
 Installation of open-web steel joists and joist girders. a. End connections - welding or bolted. 	per SJI CJ or SJI 100	N
b. Bridging - horizontal or diagonal. 1) Standard bridging.	per SJI CJ or SJI	
2) Bridging that differs from the specifications listed in SJI	100	
CJ or SJI 100. 1705.2.4. Cold-Formed Steel Trusses	Spanning 60 feet or	Grea
Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N
1705.3 Concrete Construction1. Inspection and placementverification of reinforcing steel and	Shop (3) and field inspection	Y
2. Reinforcing bar welding:		Y
a. Verification of weldability of bars other than ASTM A706. b. Inspection of single-pass fillet		
welds 5/16 or less in size. c. Inspection of all other welds.		
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	N
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided		
requirements are provided, requirements shall be provided by the registered design professional and approved by the building official,	Field inspection	Y
including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor	1 - 2000	
spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque		
a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads.		
 tension loads. b. Mechanical and adhesive anchors note defined in 4a. 5. Verify use of approved design mix 	Shop (3) and field	
6. Prior to placement, fresh concrete sampling, perform slump and air	inspection	Y
content tests and determine temperature of concrete and perform any other tests as specified in construction documents.	Shop (3) and field inspection	Y
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y
8. Verify maintenance of specified	Shop (3) and field	
curing temperature and techniques 9. Inspection of prestressed concrete:	Shop (3) and field inspection Shop (3) and field inspection	Y N
a. Application of prestressing force	าเวอุธิงแปไ	
 b. Grouting of bonded prestressing tendons 		
10. Inspect erection of precast concrete members		N
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
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	N
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y
1705.4 Masonry Construction MINIMUM VERIFICATION REQU	JIREMENTS	
(A) Level 1, 2 and 3 Quality Assurance		
 Prior to construction, verification of compliance of submittals (B) Level 2 & 3 Quality Assurance: 	Submittal Review	N
1. Prior to construction verification of fm and fAAC except where specifically required by the code	Testing by unit strength method or prism test method	N
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to	Testing by unit strength method or prism test method	N
project site. (C) Level 3 Quality Assurance:	-	
1. During construction, verification	Testing by unit strength method or	N
of f'm and f'AAC for every 5,000 SF 2. During construction, verification	prism test method	
of fm and fAAC for every 5,000 SF 2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other	Field inspection	N
of f'm and f'AAC for every 5,000 SF 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. <u>MINIMUM SPECIAL INSPECTION F</u>	Field inspection	N
of f'm and f'AAC for every 5,000 SF 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
of fm and fAAC for every 5,000 SF 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. MINIMUM SPECIAL INSPECTION I (D) Levels 2 and 3 Quality Assurance: 1. As masonry construction begins, verif are in a. Proportions of the site- prepared mortar b. Grade and size of prestressing	Field inspection	N N N
of fm and fAAC for every 5,000 SF 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. MINIMUM SPECIAL INSPECTION F (D) Levels 2 and 3 Quality Assurance: 1. As masonry construction begins, verifiare in a. Proportions of the site- prepared mortar	Field inspection REQUIREMENTS inspection inspection Field inspection	N
of fm and fAAC for every 5,000 SF 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. MINIMUM SPECIAL INSPECTION F (D) Levels 2 and 3 Quality Assurance: 1. As masonry construction begins, verifi- are in a. Proportions of the site- prepared mortar b. Grade and size of prestressing tendons and anchorages c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages d. Prestressing technique e. Properties of thin-bed mortar for	Field inspection REQUIREMENTS fy that the following Field inspection Field inspection	N
of fm and fAAC for every 5,000 SF 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. MINIMUM SPECIAL INSPECTION F (D) Levels 2 and 3 Quality Assurance: 1. As masonry construction begins, verification a. Proportions of the site- prepared mortar b. Grade and size of prestressing tendons and anchorages c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages d. Prestressing technique	Field inspection REQUIREMENTS fy that the following Field inspection Field inspection Field inspection	N N N
of fm and fAAC for every 5,000 SF 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. <u>MINIMUM SPECIAL INSPECTION F</u> (D) Levels 2 and 3 Quality Assurance: 1. As masonry construction begins, verification a. Proportions of the site- prepared mortar b. Grade and size of prestressing tendons and anchorages c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages d. Prestressing technique e. Properties of thin-bed mortar for AAC masonry (b) Required for the first 5,000 square feet	Field inspection REQUIREMENTS fy that the following Field inspection Field inspection Field inspection Field inspection	N N N

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L INSPECTION SERVICES			SCHEDULE O		DERVICES	PROJECT	OF SPECIAL INSPECTION SERVICES GT VETERANS RESOURCE CENTER				
	APPLICABLE TO THIS		MATERIAL / ACTIVITY	SERVICE		APPLICABL		MATERIAL / ACTIVITY	SERVICE		APPLICABLE TO THIS PROJECT
ld	Y EXTENT AGENT*	DATE COMPLETED	2. Prior to grouting, verify that the followin compliance:	ng are in	Y/N	EXTENT	AGENT* DATE COMPLETED	1705.10 Fabricated items		Y/N	EXTENT AGENT* DATE COMPLET
	Observe (4)		a. Grout space	Field inspection	N	Level 2 - Periodic Level 3 -		1. List of fabricated items requiring special inspection during fabrication:	Shop inspection	N	As noted in each applicable shop activity
	Observe (4)		b. Placement of prestressing tendons and anchorages	Field inspection	N	Continuous Periodic		2. List of fabricated items to be			
	Perform (4)		c. Placement of reinforcement, connectors, and anchor bolts	Field inspection	N N	Level 2 - Periodic Level 3 - Continuous		fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency		N	
			d. Proportions of site-prepared grout and prestresssing grout for	Field inspection	N	Periodic		providing periodic auditing):			
	N		bonded tendons3. Verify compliance of the following during	ng construction:				1705.11.1 Structural Wood Special I 1. Inspection of field gluing operations	nspections For Wind	Resista	nce
1	Periodic		a. Materials and procedures with the approved submittals	Field inspection	N	Periodic		of elements of the main windforce- resisting system	Field inspection	Ν	Continuous
11	Periodic		 b. Placement of masonry units and mortar joint construction c. Size and location of structural 	Field inspection	N	Periodic		2. Inspection of nailing, bolting, anchoring and other fastening of components within the main	Shop (3) and field inspection	N	Periodic
	Periodic		members d. Type, size, location of anchors,	Field inspection	N N	Periodic Level 2 -		windforce-resisting system 1705.11.2 Cold-formed Steel Specia	Inspections For Wir	nd Resist	tance
or C	reater		including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection	N	Periodic Level 3 - Continuous		1.Inspection during welding operations of elements of the main windforce- resisting system	Shop (3) and field inspection	N	Periodic
	N		e. Welding of reinforcement	Field inspection	N	Continuous		2.Inspection of screw attachment, bolting, anchoring and other fastening of components within the main	Shop (3) and field		Periodic
			f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F)	Field inspection	N	Periodic		windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-	inspection	N	
b	Y Periodic		or hot weather (temperature above 90ºF) g. Application and measurement			0 "		downs. 1705.11.3 Wind-resisting Componer	ts		
	Y		of prestressing force h. Placement of grout and	Field testing Field inspection	N N	Continuous		1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	Ν	Periodic
	Periodic		prestressing grout for bonded tendons is in compliance i. Placement of AAC masonry			Level 2 -		2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	N	Periodic
+	Periodic Continuous		units and construction of thin-bed mortar joints	Field increation	N	Continuous (b) Level 2 -		1705.12.1 Structural Steel Special In 1. Seismic force-resisting systems in	spections for Seism Shop (3) and field		ance In accordance
d	N Periodic		(b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field inspection		Periodic (c)		SDC B, C, D, E, or F. 2. Structural steel elements in SDC B,	inspection	N	In accordance with AISC 341
T			4. Observe preparation of grout		N	Level 3 - Continuous		C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	with AISC 341
	Periodic or as required by the research report		 Observe preparation of grout specimens, mortar specimens, and/or prisms 	Field inspection	N N	Level 2 - Periodic Level 3 -		1705.12.2 Structural Wood Special I 1. Field gluing operations of elements	nspections for Seism	nic Resis	tance
	Y issued by an approved source		1705.5 Wood Construction			Continuous		1. Field gluing operations of elements of the seismic-force resisting system for SDC C, D, E or F.	Field inspection	Ν	Continuous
			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. Nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system including wood shear walls, wood	Shop (3) and field inspection	N	Periodic
	Continuous		2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved	Field inspection	N	Periodic		diaphragms, drag struts, shear panels and hold-downs for SDC C, D, E or F.			Ispections for Sciemic Posistons
			building plans.					1705.12.3 Cold-formed Steel Light-F 1. During welding operations of elements of the seismic-force-resisting	Shop (3) and field		Periodic
ł	Periodic Y Periodic		3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of					system for SDC C, D, E or F. 2. Screw attachment, bolting,	inspection		
1	Y Continuous		fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	Ν	Periodic		anchoring and other fastening of components within the seismic-force- resisting system including shear walls, braces, diaphragms, collectors	Shop (3) and field inspection	N	Periodic
			4. Metal-plate-connected wood trusses:		N			(drag struts) and hold-downs for SDC C, D, E or F. 1705.12.4 Designated Seismic Syste	ms Verification		
d	Y Continuous		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	Field inspection	N	Periodic		For SDC C, D, E or F, inspect and verify that 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
d	Y Periodic		than or equal to 60 ^{°°} . b. For trusses spanning 60 feet or					1705.12.5 Architectural Components 1. For SDC D, E or F, inspection	Special Inspections	for Seis	mic Resistance
d	N		greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and	Field inspection	N	Periodic
+	Continuous		1705.6 Soils 1. Verify materials below shallowfoundations are adequate to achieve	Field inspection	N	Periodic		weighing more than 5 psf. 2. For SDC D, E or F, inspection during the erection and fastening of			
┦	Continuous		the design bearing capacity.2. Verify excavations are extended to proper depth and have reached proper					during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15	Field inspection	Ν	Periodic
+	N Periodic		material. 3. Perform classification and testing of	Field inspection	N N	Periodic Periodic		psf. 3. For SDC D, E or F, inspection			
s	N Periodic		controlled fill materials.4. Verify use of proper materials, densities, and lift thicknesses during			r enouic		during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking		Ν	
+	N Periodic		placement and compaction of controlled fill	Field inspection	N	Continuous		4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection	N	Periodic
1	Y Periodic		5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	N	Periodic		1705.12.6 Mechanical and Electrical 1. Inspection during the anchorage of	Components Specia	I Inspect	tions for Seismic Resistance
3			1705.7 Driven Deep Foundations 1. Verify element materials, sizes and		∎⊥]			electrical equipment for emergency or standby power systems in SDC C, D, E or F	Field inspection	Ν	Periodic
			lengths comply with requirements2. Determine capacities of test	Field inspection	N	Continuous		 Inspection during the anchorage of other electrical equipment in SDC E or F 	Field inspection	N	Periodic
<i>′</i>	N Prior to Construction		elements and conduct additional load tests, as required	Field inspection	N	Continuous		 Inspection during installation and anchorage of piping systems designed 			
Ţ	N Prior to Construction		3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	Ν	Continuous		to carry hazardous materials, and their associated mechanical units in SDC C, D, E or F		N	Periodic
or d			4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per					4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials SDC C,	Field inspection	N	Periodic
or d	N Periodic		foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to	Field inspection	N	Continuous		 5. Inspection during the installation and anchorage of vibration isolation systems in SDC C, D, E or F where 			
╡			foundation element 5. For steel elements, perform additional inspections per Section	See Section	N	See Section		nominal clearance of 1/4 inch or less is required by the approved construction documents	Field inspection	N	Periodic
r	N Periodic		1705.26. For concrete elements and	1705.2		1705.2		 6. Inspection during installation of mechanical and electrical equipment, including duct work, piping systems 			
	N Periodic		concrete-filled elements, perform additional inspections per Section 1705.3 7. For specialty elements, perform	See Section 1705.3	N	See Section 1705.3 In accordance		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		Y	
╉			additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	in accordance with construction documents		following unless flexible sprinkler hose fittings are used: a. ASCE/SEI 7, Section 13.2.3			
╡			1705.8 Cast-in-Place Deep Foundation 1.Inspect drilling operations and	S	ı ⊥ 1 [−]			minimum required clearances have been provided.	Field inspection		Periodic
1	N Periodic		maintain complete and accurate records for each element	Field inspection	N	Continuous		b. A three inch or greater nominal clearance has been provided between fire protection sprinkler			
┦	N Periodic		2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if					system drops and sprigs and: structural members not used collectively or independently to	Field inspection		Periodic
	N Periodic		applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record	Field inspection	Ν	Continuous		support the sprinklers; equipment attached to the building structure; and other systems' piping.			
╡	N Periodic		concrete or grout volumes3. For concrete elements, perform	See Section		See Section		1705.12.7 Storage Racks Special Ins	pections for Seismic	c Resista	ince
	N (b)		additional inspections in accordance with Section 1705.3	See Section 1705.3	Ν	See Section 1705.3		Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDC	Field inspection	N	Periodic
	Level 2 - Periodic		1705.9 Helical Pile Foundations Verify installation equipment, pile dimensions, tip elevations, final					D, E or F. 1705.12.8 Seismic Isolation Systems	3		
	N Level 3 - Continuous		depth, final installation torque and other installation data as required by construction documents.	Field inspection	Ν	Continuous		Inspection during the fabrication and installation of isolator units and energy dissipation devices used as	Shop and field	N	Periodic
-	N Level 2 - Periodic							part of the seismic isolation system in structures assigned to SDC B, C, D,	inspection		

SCHEDULE O	F SPECIAL I	NS	PECTION S	ERVIC	CES		
PROJECT							
MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJEC EXTENT AGENT* DATE CO				
1705.12.9 Cold-formed Steel Special	Bolted Moment Fran	nes					
Inspection of installation of cold- formed steel special bolted moment frames in the seismic force-resisting systems in structures assigned to SDC D, E or F.	Field inspection	N	Periodic				
1705.13.1 Structural Steel Testing for	Seismic Resistance				l		
1. Nondestructive testing of structural steel in the seismic force-resisting systems in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic				
2. Nondestructive testing of structural steel elements in the seismic force- resisting systems not covered in 1 above including struts, collectors, chords and foundation elements in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic				
1705.13.2 Seismic Certification of No	nstructural Compon	ents			l		
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal				
1705.13.3 Seismic Certification of Des	signated Seismic Sy	stems	5		1		
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal				
1705.13.4 Seismic Isolation Systems							
Test seismic isolation system in accordance with ASCE 7 Section 17.8 in structures assigned to SDC B, C, D, E or F.	Prototype testing	N	Per ASCE 7				
1705.14 Sprayed Fire-resistant Materi	ials				1		
1. Verify surface condition preparation of structural members	Field inspection	N	Periodic				
2. Verify minimum thickness of sprayed fire-resistant materials applied to structural members	Field inspection	N	Periodic				
3. Verify density of the sprayed fire- resistant material complies with approved fire-resistant design	Field inspection and testing	N	Per IBC Section 1705.13.5				
4. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material	Field inspection and testing	N	Per IBC Section 1705.13.6				
5. Condition of finished application	Field inspection	Ν	Periodic				
1705.15 Mastic and Intumescent Fire-	Resistant Coatings	-			1		
Inspect and test mastic and intumescent fire-resistant coatings applied to structural elements and decks per AWCI 12-B	Field inspection	N	Periodic				
1705.16 Exterior Insulation and Finish	n Systems (EIFS)						
Inspection of water-resistive barrier over sheathing substrate	Field inspection	Ν	Periodic				
1705.17 Fire-Resistant Penetrations a	1						
1. Inspect penetration firestop	Field testing	N N	Per ASTM E2174 Per ASTM E2393				
2. Inspect fire-resistant joint systems 1705.18 Smoke Control Systems	Field testing	IN	17 EL ASTIVI E2393				
1. Leakage testing and recording of device locations prior to concealment	Field testing	N	Periodic				
2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control verification	Field testing	Y	Periodic				
* INSPECTION AGENTS	1		1	I	1		
FIRM 1. NOVA ENGINEERING & ENVIRONMENTAL, LLC		D DRE Er Rie	SS DGE CIR, NORCRO)SS, GA	TELEPH (770) 6		
2. GEOHYDRO ENGINEERS	1000 COBB F		/D #290, KENNES/		(770) 4		

 2. GEOHYDRO ENGINEERS
 1000 COBB PL BLVD #290, KENNESAW, GA
 (770) 426-7100

 3. TERRACON
 2105 NEWPOINT PL #600, LAWRENCEVILLE, GA
 (770) 623-0755

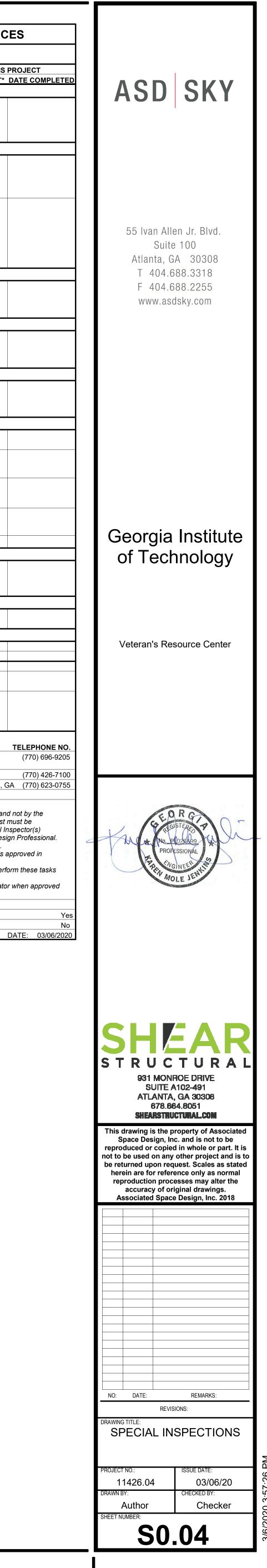
 4.
 Visites:
 1000 COBB PL BLVD #290, KENNESAW, GA
 (770) 426-7100

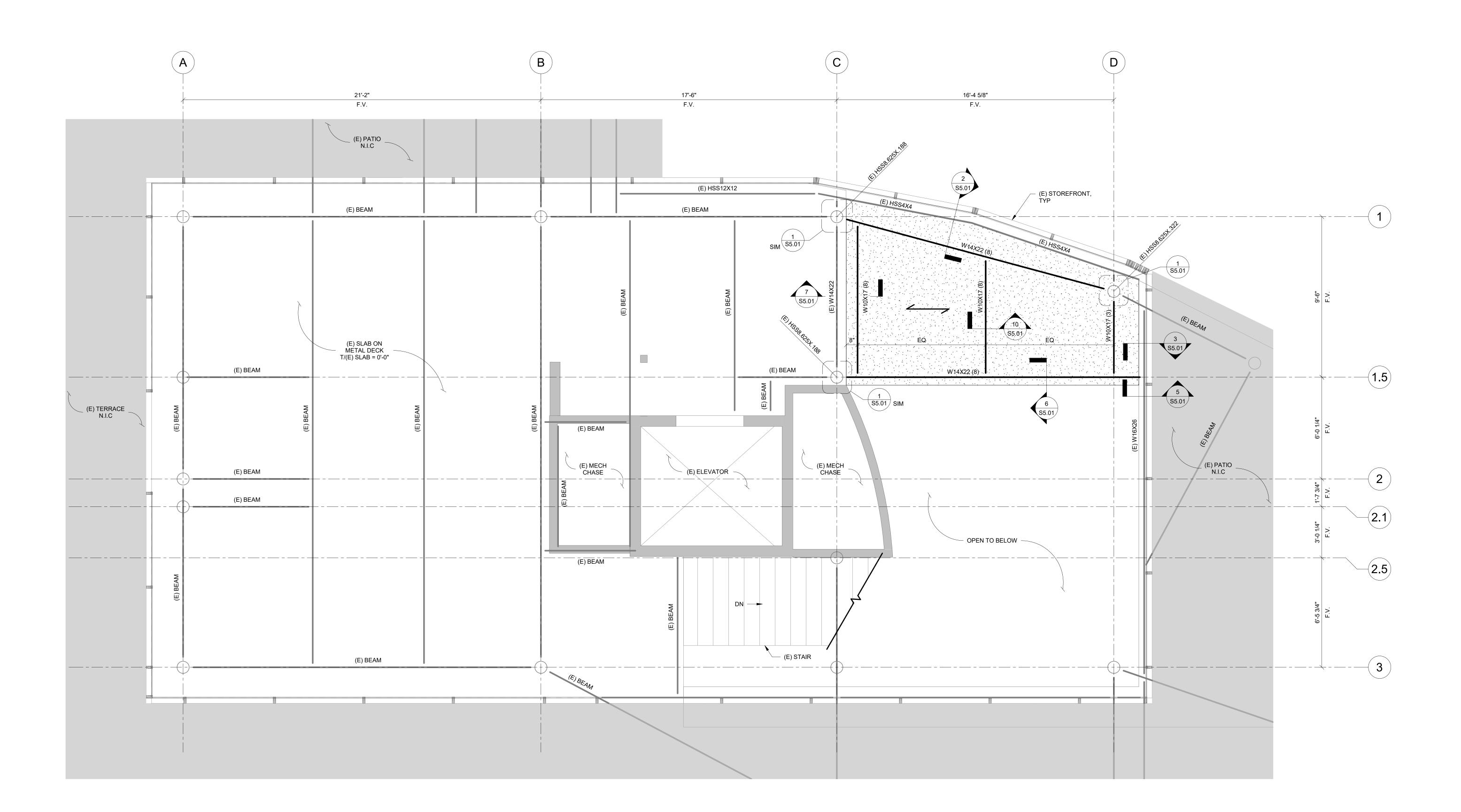
 The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.
 The list of Special Inspectors may be submitted as a separate document, if noted so above.

Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.
 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.

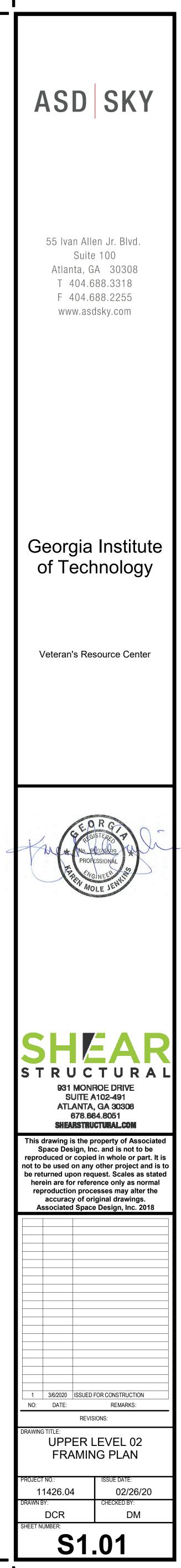
Are Requirements for Seismic Resistance included in the Statement of Special Inspections? Are Requirements for Wind Resistance included in the Statement of Special Inspections?

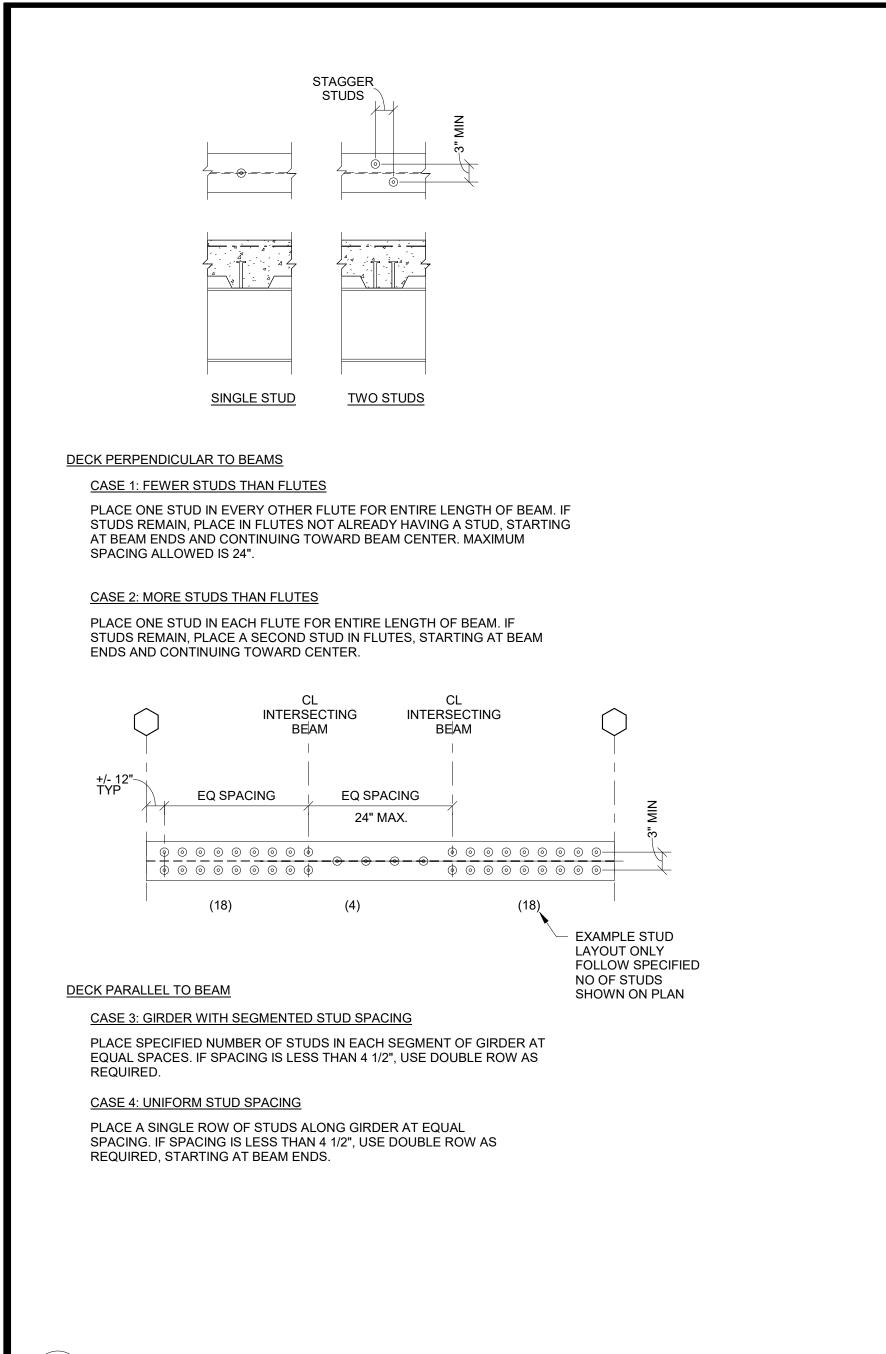




1 UPPLER LEVEL 02 FRAMING PLAN S1.01 3/8" = 1'-0"

- NOTES: 1. SEE S0.01 FOR STRUCTURAL GENERAL NOTES. 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND NOTIFY ENGINEER OF ANY DISCORTRANCIES 4. DECK BEARING ELEVATION -0'-6 1/2" RELATIVE TO EXISTING UPPER LEVEL 02 REFERENCE ELEVATION = 0'-0" UNO.
 5. /// 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. 6. (x) INDICTATES NUMBER OF 3/4" Ø HEADED STUDS EQUALLY SPACED. SEE 19/S5.01.
 - 7. MÁXIMUM ALLOWABLE SHEAR REACTION = 10 KIPS





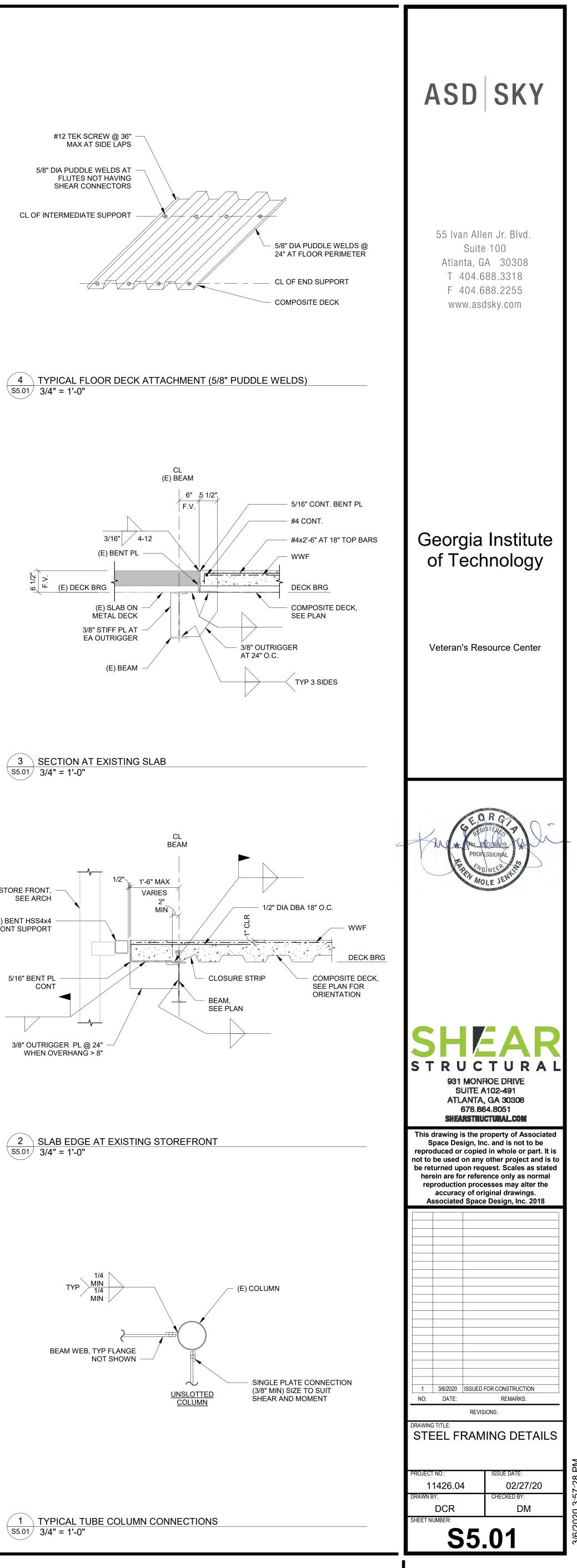
19 TYPICAL STUD PLACEMENT AT METAL DECK \$5.01 3/4" = 1'-0"

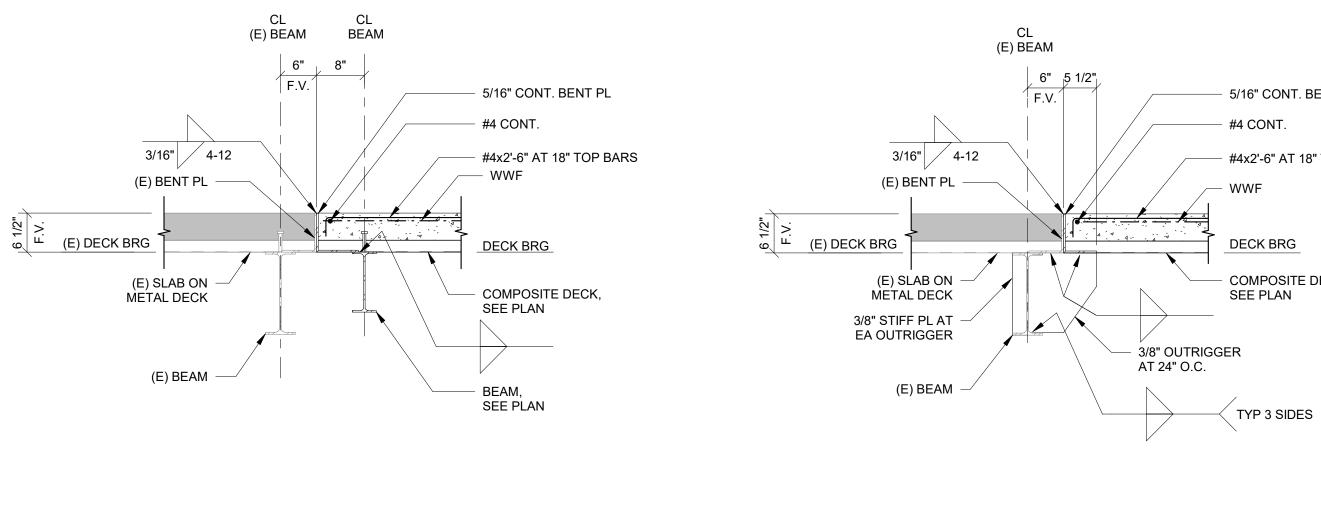


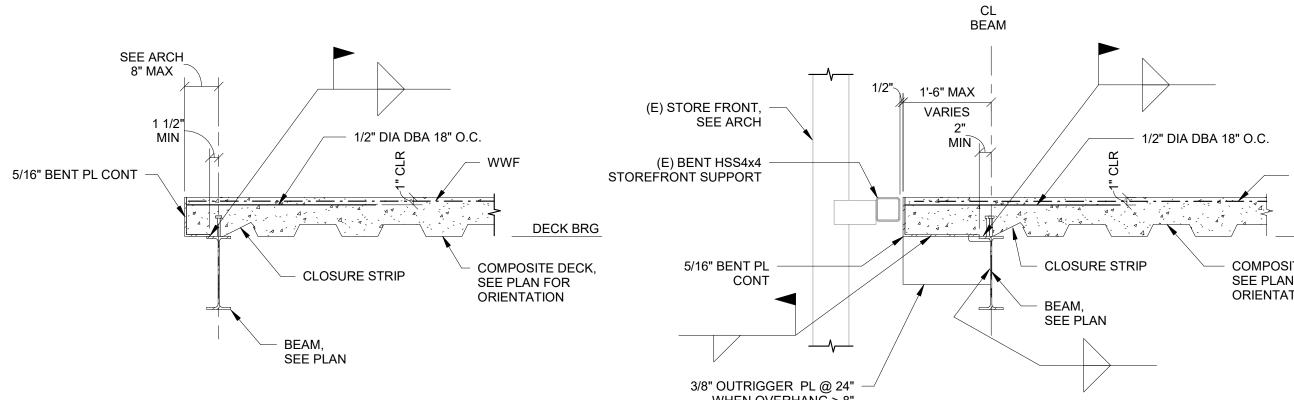
10 TYPICAL COMPOSITE SLAB AT INTERIOR BEAM S5.01 3/4" = 1'-0"

WWF DECK BRG BEAM,
 SEE PLAN

7 EXISTING SLAB SECTION \$5.01 3/4" = 1'-0"







6 SLAB EDGE AT INTERIOR \$5.01 3/4" = 1'-0"



