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GENERAL BUILDING AND PROJECT NOTES

1. **GENERAL**
   1.1. SEE ADDITIONAL WRITTEN PROJECT MANUAL AND/OR DRAWING SPEC SECTIONS, IF PROVIDED, FOR ADDITIONAL INFORMATION. IF THERE IS VARIANCE BETWEEN THESE GENERAL NOTES AND SPECIFICATIONS, THE STRICTER REQUIREMETNS SHALL PERTAIN.
   1.2. INFORMATION CONTAINED IN THESE DRAWINGS IS BASED ON LIMITED SITE MEASUREMENTS AND MAY REQUIRE ADJUSTMENTS AND OR MODIFICATIONS TO CONFORM WITH EXISTING SITE AND FIELD CONDITIONS. CONTRACTOR/SUBCONTRACTORS SHALL CONFIRM ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL ADVISE OWNER AND ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAN/NOTED AND ACTUAL CONDITIONS AND/OR PROPOSED ADJUSTMENTS PRIOR TO PROCEEDING WITH EITHER FABRICATION OR THE INSTALLATION OF THE WORK.
   1.3. THE DRAWINGS SHALL NOT BE SCALED AND ALL CRITICAL DIMENSIONS SHALL BE VERIFIED IN FIELD (VIF) PRIOR TO COMMENCEMENT OF THE WORK.
   1.4. ALL DIMENSIONS ARE TO FACE OF FRAMING (FOF) UNLESS OTHERWISE NOTED AS BEING TO FACE OF MASONRY (FOM) OR FINISH (FIN) OR CENTERLINE (CL).
   1.5. WHEN SPECIFICATIONS ARE PROVIDED IN ADDITION TO THE DRAWINGS, THE DRAWINGS AND SPECIFICATIONS ARE A COMPLETE PACKAGE AND EACH SHALL BE REVIEWED AND FOLLOWED PRIOR TO AND DURING CONSTRUCTION AND PROJECT CLOSE-OUT. THE CONTRACTOR SHALL CONSULT THE ARCHITECT FOR CLARIFICATION REGARDING ANY INCONSISTENCIES ACROSS THE DRAWINGS AND SPECS.
   1.6. IF THERE IS INTERNAL DISAGREEMENT BETWEEN THE DRAWINGS AND/OR THE SPECIFICATIONS, THE FOLLOWING SHALL TAKE PRECEDENCE BUT, IN ALL CASES, THE STRICTER REQUIREMENTS AND STANDARDS SHALL BE FOLLOWED, UNLESS OTHERWISE SPECIFICALLY AND MUTUALLY AGREED BY THE ARCHITECT, CONTRACTOR AND OWNER PRIOR TO INSTALLATION AND EXECUTION OF THE WORK/ITEMS IN QUESTION:
      1.6.1. DIMENSIONS OVER GRAPHIC REPRESENTATION
      1.6.2. LARGE/DETAIL DRAWINGS OVER SMALLER DRAWINGS
      1.6.3. SPECIFICATIONS AND/OR WRITTEN NOTES OVER DRAWINGS
   1.7. THE PHRASE 'OR APPROVED EQUAL' SHALL BE AS NOTED IN THE SPECIFICATIONS OR, IF NOT NOTED, SHALL MEAN AS APPROVED BY THE ARCHITECT/OWNER FOR GENERAL EQUIVALENCE IN QUALITY, SIZE, CONSTRUCTION, ETC.
   1.8. THE PHRASE 'OR SIMILAR' SHALL MEAN AN ITEM OF SIMILAR QUALITY, SIZE, CONSTRUCTION, ETC., AS DEFINED BY COMMONLY ACCEPTED STANDARDS AND PRACTICES OF THE CONSTRUCTION INDUSTRY.
   1.9. THE PHRASE 'CONSTRUCTION STANDARD' SHALL MEAN AN ITEM CONSIDERED TO BE STANDARD AND SATISFACTORY FOR ITS INTENDED USE AS DEFINED BY COMMONLY ACCEPTED STANDARDS AND PRACTICES OF THE CONSTRUCTION INDUSTRY.
   1.10. DRAWINGS AND SPECIFICATIONS AND THE IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE INSTRUMENTS OF SERVICE AND REMAIN, WITHOUT EXCEPTION, THE PROPERTY OF THE ARCHITECT AND THE ARCHITECT RETAINS ALL COPYRIGHT PRIVILEGES AND PROTECTIONS APPLICABLE UNDER LAW, EXCEPT AS SPECIFICALLY NOTED IN THE CONTRACT BETWEEN OWNER AND CONTRACTOR
2. **PROJECT NARRATIVE**
   2.1. PROJECT IS A 3 STORY + C + PARTIAL 4TH FLOOR, MULTI-FAMILY 8-UNIT RESIDENTIAL BUILDING WITH ONE ELEVATOR AND ONE STAIR. PROJECT HAS SITE WORK IN PUBLIC SPACE. CONSTRUCTION IS TYPE VB CONSTRUCTION WOOD-FRAME WITH CIP CONCRETE OR CMU FOUNDATION WALLS; BUILDING IS SPRINKLED. PROJECT HAS RECEIVED DC BZA RELIEF FOR PARKING AND BICYCLE STORAGE
3. **PROJECT SPECIFIC NOTES AND SOW**
4. **CODE ANALYSIS**; SEE SEPARATE ANALYSIS IF PROVIDED
5. **CODE CONFORMANCE:** CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND / OR LOCAL STATUTES, ORDINANCES, REGULATIONS, LAW AND CODES INCLUDING:
   5.1. THE MOST RECENT ADDITION, INCLUDING APPLICABLE AMENDMENTS, ICC/IBC 2012 GENERAL BUILDING CODE AND DCMR 12A/DCCCS 2013 AMENDMENTS, ICC PLUMBING CODE, ICC MECHANICAL CODE, AND DCMR/DCCCS 2013 AMENDMENTS, THE LATEST EDITION OF THE NEC ADOPTED BY THE AHJ, ELEVATOR CODE, AND AHJ DEPARTMENT OF HEALTH/ENVIRONMENT REGULATIONS
   5.2. ADDITIONAL AHJ AMENDMENTS TO THE ABOVE
   5.3. APPLICABLE REQUIREMENTS OF LOCAL POWER / UTILITY AND TELEPHONE COMPANY(S).
6. **PROJECT PROCESSES**
   6.1. **SUBSTITUTION AND SUBMITTALS** SHALL BE AS NOTED IN THE SUBMITTALS NOTES.
   6.2. **PROJECT FORMS** SHALL BE AS PROVIDED BY AND/OR AGREED UPON BY THE OWNER OR AS OTHER WISE NOTED IN THIS SPECIFICATION AND IF NOT OTHERWISE AGREED UPON, NOTED OR SPECIFIED, THEY SHALL INCLUDE:
      6.2.1. AIA G701 CHANGE ORDER FORM
      6.2.2. AIA G702/703 APPLICATION FOR PAYMENT FORM AND CONTINUATION SHEET
      6.2.3. AIA G704 CERTIFICATE OF SUBSTANTIAL COMPLETION
      6.2.4. AIA G705 CERTIFICATE OF INSURANCE OR OTHER FORM APPROVED BY THE OWNER
      6.2.5. AIA G706 CONTRACTOR'S AFFADAVIT OF PAYMENT OF DEBTS AND CLAIMS
      6.2.6. AIA G706A CONTRACTOR'S AFFADAVIT OF RELAEASE OF LIENS OR OTHER LIEN RELEASE FORM APPROVED BY THE OWNER
      6.2.7. AIA G710 ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
      6.2.8. AIA G716 RFI FORM OR OTHER FORM APPROVED BY THE OWNER
      6.2.9. AIA A101 STANDARD FORM OF AGREEMNT BEWEEN OWNER AND CONTRACTOR FOR A STIPULATED SUM (WHEN THE COS BASIS IS A STIPULATED SUM)
      6.2.10. AIA A312 PERFORMANCE BOND AND PAYMENT BOND IF REQUIRED BY THE OWNER
      6.2.11. AIA A401 STANDARD FORM AF AGREEMENT BETWEEN CONTRACTOR AND SUBCONTRACTOR. NOTE THAT THIS IS A SUGGESTED AND PREFERRED FORM BUT IS NOT A REQUIRMENT UNLESS THE OWNER HAS A CONTRACTUAL RELATIONSHIP WITH THE SUBCONTRACTOR AND THE OWNER CHOOSES TO USE THIS FORM
      6.2.12. ASI/RFI FORM; BY ARCHITECT OR ARCHITECT/CONTRACTOR
   6.3. **INSURANCE**
      6.3.1. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL PROCURE, MAINTAIN AND PAY FOR INSURANCE IN ACCORDANCE WITH ARTICLE 11 OF THE GENERAL CONDITIONS AND AS HEREIN NOTED AND AS DIRECTED BY THE OWNERS AND/OR THE OWNER'S INSURANCE CARRIER. REQUIREMENTS OF THE OWNER AND/OR THE OWNER'S INSURANCE CARRIER SHALL TAKE PRECEDENCE OVER ANY REQUIREMENTS HEREIN. THE OWNER RESERVES THE RIGHT TO AMEND AND/OR ADD TO THE INSURANCE REQUIREMENTS NOTED IN THIS SECTION. NO CONTRACTOR OR SUBCONTRACTOR SHALL COMMENCE WORK UNDER THIS CONTRACT UNTIL THE REQUIRED INSURANCE HAS BEEN OBTAINED. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL MAINTAIN ALL REQUIRED INSURANCE DURING THE LIFE OF THE CONTRACT, AND FOR NO LESS THAN THREE YEARS THEREAFTER AND NO LESS THAN THREE YEARS AFTER THE DATE OF FINAL COMPLETION, UNLESS OTHERWISE AGREED IN WRITING BETWEEN THE OWNER AND CONTRACTOR.
   6.4. **WORK BY OWNER**
      6.4.1. THE OWNER RESERVES THE RIGHT TO REMOVE ANY PORTION OF THE WORK DESCRIBED BY THE CONSTRUCTION DOCUMENTS FROM THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR AND TO PROVIDE ANY SUCH PORTIONS OF SAID WORK USING THE OWNER'S OWN FORCES OR OTHER SUBCONTRACTORS OPERATING UNDER SEPARATE CONTRACT.
      6.4.2. THE OWNER'S REMOVAL OF PORTIONS OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE A FULLY FUNCTIONAL AND COMPLETED PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE CONTRACTOR SHALL FULLY COORDINATE THE WORK OF IT'S PESONNEL AND THAT OF IT'S SUBCONTRACTORS WITH ANY WORK PROVIDED BY THE OWNER.
   6.5. **PRICE AND PAYMENT PROCEDURES**
      6.5.1. **ALLOWANCES**: CONTRACTOR SHALL PROVIDE ALLOWANCE DOLLAR AMOUNTS FOR THE MATERIALS, FIXTURES, ETC. NOTED IN THE NOTICE TO BIDDER, THE DRAWINGS AND THESE SPECIFICATIONS OR AS OTHERWISE REQUIRED BY THE OWNER.
         6.5.1.1. ALLOWANCE ITEM DOLLAR AMOUNTS SHALL BE FOR THE ITEM(S) ONLY, UNLESS OTHERWISE SPECIFICALLY AGREED TO BY THE OWNER IN OTHER CONTRACT DOCUMENTS AND SHALL INCLUDE:
            6.5.1.1.1. THE DIRECT COST OF THE ITEM PURCHASED BY THE CONTRACTOR WITH OVERHEAD AND PROFIT (IF AND AS ALLOWED IN THE CONTRACT(S) BETWEEN OWNER AND CONTRACTOR),
            6.5.1.1.2. SALES TAX AND FREIGHT,
            6.5.1.1.3. ALL NECESSARY DEVICES, CONNECTORS AND SIMILAR DEVICES NORMALLY PROVIDED BY THE MANUFACTURER OF THESE ITEMS AS PART OF ANY SUCH INSTALLATION.
            6.5.1.1.4. IF WARRANTY COSTS FOR OFCI ITEMS ARE SEPARATED FROM ALLOWANCE DOLLAR AMOUNTS, ANY SUCH BREAKDOWN SHALL BE AS REQUIRED BY THE OWNER.
         6.5.1.2. UNLESS OTHERWISE AGREED IN WRITING BY THE OWNER, ALLOWANCE AMOUNTS SHALL BE INCLUDED AND CLEARLY NOTED WITHIN THE BASE CONSTRUCTION COST.
         6.5.1.3. THE LABOR REQUIRED TO INSTALL ALLOWANCE ITEMS SHALL BE INCLUDED IN THE BASE CONSTRUCTION COST AND SHALL NOT BE INCLUDED AS PART OF THE ALLOWANCE DOLLAR AMOUNT UNLESS OTHERWISE AGREED BY THE OWNER IN WRITING OR UNLESS OTHERWISE SPECIFICALLY NOTED IN THE INDIVIDUAL SPEC SECTION, IF PROVIDED. IF SELECTED ITEMS EXCEED THE INDIVIDUAL ALLOWANCE AMOUNT FOR THAT ITEM, THE DIFFERENCE IN AMOUNT SHALL BE PAID BY THE OWNER AS A CHANGE ORDER.
         6.5.1.4. UNLESS OTHERWISE AGREED IN WRITING BY THE OWNER AND CONTRACTOR, THE OWNER SHALL HAVE THE RIGHT TO ASSIGN AND/OR TRANSFER PORTIONS OF OR ALL OF AN ALLOWANCE DOLLAR AMOUNT WITHIN THE OVERALL CONTRACT COST, AS LONG AS THE TOTAL AND COMBINED ALLOWANCE DOLLAR AMOUNTS AS DEFINED ABOVE, ARE NOT EXCEEDED. IN NO CASE, SHALL ALLOWANCE DOLLAR AMOUNTS WHICH ARE NOT EXCEEDED REVERT TO THE CONTRACTOR OR TO A GENERAL CONTINGENCY FUND OR LINE ITEM WITHOUT THE EXPRESS, PRIOR WRITTEN APPROVAL OF THE OWNER.
         6.5.1.5. ALLOWANCES PROVIDED BY THE CONTRACTOR OR REQUESTED BY THE OWNER FOR ITEMS THAT ARE NOT SPECIFICALLY NOTED ON THE DRAWINGS AND SPECIFICATIONS OR WHOSE EXTENT CANNOT REASONABLY BE DETERMINED, SUCH AS TEMPORARY POWER, EQUIPMENT RENTALS, ETC. SHALL BE LISTED SEPARATELY FROM ALL OTHER ALLOWANCE ITEMS AND SHALL BE BROKEN DOWN TO INCLUDE THE ITEM(S) THEMSELVES AND ALL ASSOCIATED COSTS, INCLUDING LABOR AND INSTALLATION.
      6.5.2. **UNIT PRICES:** UNIT PRICES ARE FOR ITEMS THAT ARE NOT INCLUDED IN THE BASE CONSTRUCTION COST BUT ARE ANTICIPATED TO BE COSTS THAT MAY BE INCURRED DUE TO UNKNOWN SITE CONDITIONS, ETC.
         6.5.2.1. UNLESS OTHERWISE AGREED IN WRITING BETWEEN THE OWNER AND CONTRACTOR, UNIT PRICES SHALL NOT BE INCLUDED IN THE BASE CONSTRUCTION COST. THEY SHALL BE LISTED SEPARATELY FROM THE BASE CONSTRUCTION COST IN A MANNER THAT CLEARLY DELINEATES AND DEFINES THE AMOUNT, SCOPE OF WORK, ETC.
         6.5.2.2. UNIT PRICES SHALL BE PROVIDED AS NOTED IN THE DRAWINGS AND SPECIFICATIONS AND BELOW. THE UNIT PRICES SHALL BE STATED AS DOLLAR AMOUNTS FOR A UNIT OF WORK AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, ASSOCIATED DEVICES AND ALL OTHER ITEMS NECESSARY TO ACCOMPLISH THE WORK, FOR THE FOLLOWING PORTIONS OF THE WORK AND AS OTHERWISE REQUIRED BY THE OWNER. THE UNIT OF WORK SHALL BE AS NOTED
         6.5.2.3. REQUIRED UNIT PRICES:NA
      6.5.3. **ALTERNATES**: ALLOWANCE PRICES NOTED AS ALTERNATE ALLOWANCE PRICES SHALL BE FOR ALTERNATES TO THE ALLOWANCE ITEMS SHOWN AND NOTED IN THE DRAWINGS AND SPECIFICATIONS. THE 'PRIMARY' ALLOWANCE PRICE SHALL BE INCLUDED IN THE BASE CONSTRUCTION COST AND THE ALTERNATE SHALL BE NOTED SEPARATELY OUTSIDE THE BASE CONSTRUCTION COST. IF THE OWNER CHOOSES TO USE THE ALTERNATE ALLOWANCE PRICE, THAT ALTERNATE WILL REPLACE THE 'PRIMARY' ALLOWANCE PRICE WITHIN THE BASE CONSTRUCTION COST.
         6.5.3.1. PORTIONS OF THE WORK NOTED AS ALTERNATE(S) SHALL BE FOR ALTERNATES TO THE 'PRIMARY' WORK SHOWN AND NOTED IN THE DRAWINGS AND SPECIFICATIONS. THE 'PRIMARY' PRICE SHALL BE INCLUDED IN THE BASE CONSTRUCTION COST AND THE ALTERNATE PRICE SHALL BE NOTED SEPARATELY OUTSIDE THE BASE CONSTRUCTION COST. IF THE OWNER CHOOSES TO USE THE ALTERNATE PRICE, THAT ALTERNATE WILL REPLACE THE 'PRIMARY' PRICE WITHIN THE BASE CONSTRUCTION COST.
         6.5.3.2. ALTERNATE PRICES SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT NECESSARY TO FULLY PROVIDE THE WORK DESCRIBED AS AN ALTERNATE AND SHALL ALSO INCLUDE ALL TAXES, FREIGHT, FEES, ETC. FOR THE MATERIALS AND LABOR INVOLVED IN PROVIDING THE WORK UNLESS OTHERWISE AGREED IN WRITING BETWEEN THE OWNER AND THE CONTRACTOR.
   6.6. **CONTRACT MODIFICATION PROCEDURES**
      6.6.1. ADDENDA: FOR THIS PROJECT, ADDENDA ARE DEFINED AS SUBSTANTIAL REVISIONS OR CLARIFICATIONS TO THE PROJECT SCOPE ISSUED PRIOR TO EXECUTION OF A CONSTRUCTION CONTRACT. ALL ADDENDA SHALL BE ENUMERATED IN THE CONTRACT FOR CONSTRUCTION AND SHALL BECOME A PART OF THE CONTRACT DOCUMENTS. CONTRACTORS MAY REQUEST AND REVIEW THE CURRENT DOCUMENT LIST.
      6.6.2. **REQUESTS FOR INTERPRETATION/INFORMATION (RFI)**
         6.6.2.1. ALL INFORMATION REQUESTS FOR CLARIFICATION SHALL BE SUBMITTED IN WRITING AS A REQUEST FOR INFORMATION/INTERPRETATION (RFI). EACH RFI SHALL NOTE THE LOCATION OF THE WORK THAT THE RFI IS ADDRESSING AND SHALL BE SPECIFIC AND DETAILED IN ITS REQUEST(S).
         6.6.2.2. RFIS SHALL BE SUBMITTED IN A TIMELY FASHION AND AT LEAST 21 BUSINESS DAYS BEFORE THE INFORMATION IS REQUIRED TO ALLOW THE ARCHITECT SUFFICIENT TIME TO REVIEW AND RESPOND TO THE RFI. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL THE CURRENT CONSTRUCTION DOCUMENTS BEFORE ISSUING AN RFI AND AN RFI SHALL NOT BE USED IN LIEU OF OR TO REMOVE THE CONTRACTOR'S RESPONSIBILITY FOR THOROUGHLY REVIEWING AND UNDERSTANDING THE SITE CONDITIONS AND DRAWINGS. RFIS THAT ARE RECEIVED BY THE ARCHITECT AND THAT LACK REQUIRED INFORMATION AND/OR CLARITY OR THAT ARE FRIVOLOUS IN NATURE MAY, AT THE SOLE DISCRETION OF THE ARCHITECT, BE RETURNED TO THE CONTRACTOR AND NO FURTHER ACTION WILL BE TAKEN ON THEM.
         6.6.2.3. THE ARCHITECT WILL ENDEAVOR TO RESPOND TO THE RFI WITHIN 5 BUSINESS DAYS BUT THAT RESPONSE TIME IS NOT GUARANTEED SO TIME IS OF THE ESSENCE AND IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW AND PREPARE THE RFI IN A TIMELY MANNER SO AS NOT TO DELAY THE PROJECT.

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         6.6.2.4. RESPONSES TO RFIS SHALL NOT CONSTITUTE A CHANGE IN CONSTRUCTION COST/SUM OR THE CONSTRUCTION SOW OR SCHEDULE.
         6.6.2.5. THE CONTRACTOR SHALL KEEP AND MAINTAIN A BINDER OR OTHER SIMILAR FILING METHOD OF ALL RFI REQUESTS AND RESPONSES AND SHALL INCORPORATE THIS INFORMATION IN THE FINAL PROJECT CLOSEOUT INFORMATION.
         6.6.2.6. EACH RFI SHALL CONTAIN THE FOLLOWING INFORMATION
            6.6.2.6.1. SEQUENTIAL NUMBERING (BEGINNING WITH #1)
            6.6.2.6.2. DATE
            6.6.2.6.3. PROJECT # AND ADDRESS
            6.6.2.6.4. REFERENCED DRAWINGS
            6.6.2.6.5. BRIEF DESCRIPTION AND REQUEST
      6.6.3. **ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS (ASI):** ASI (ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS) SHALL BE PROVIDED, AS NECESSARY, BY THE ARCHITECT TO CLARIFY THE DRAWINGS AND TO INDICATE MINOR CHANGES IN THE WORK THAT DO NOT EFFECT THE CONTRACT SCOPE, COST OR TIME
         6.6.3.1. ASI RESPONSES WILL BE PROVIDED ON AN ASI FORM BY THE ARCHITECT AND WILL GENERALLY FOLLOW THE NAMING REQUIREMENTS OF RFIS
         6.6.3.2. MINOR CHANGES IN THE WORK INDICATED BY ASI, VERBAL RESPONSES OR SIMILAR COMMUNICATION AND WHICH DO NOT CHANGE THE CONTRACT COST, SCOPE OR SCHEDULE SHALL BE INCORPORATED INTO THE WORK OF THE PROJECT BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
      6.6.4. **CONSTRUCTION CHANGE DIRECTIVES (CCD)** MAY BE PROVIDED ONLY WHEN THE OWNER HAS INDICATED GENERAL AGREEMENT OF THE CHANGE TO THE CONTRACT SUM AND THE CHANGE IN COST OR TIME OR OTHER TERMS AND CONDITIONS ARE NOT YET QUANTIFIABLE OR AGREED UPON.
         6.6.4.1. CCDS SHALL BE CONFIRMED AND VALIDATED WITH CHANGE ORDERS WITHIN 15 BUSINESS DAYS OF COMPLETION OF THE WORK OF THE CCD.
         6.6.4.2. ALL CCD'S SHALL BE NUMBERED SEQUENTIALLY AND DATED AND SHALL BE TREATED SEPARATELY FROM CHANGE ORDERS.
      6.6.5. **CHANGE ORDERS**: AMOUNTS OF CHANGE ORDERS FOR CHANGE ITEMS AND CHANGES IN THE PROJECT SHALL BE PROVIDED AND AGREED TO IN WRITING BY THE OWNER AND CONTRACTOR PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK UNLESS OTHERWISE AGREED BY THE OWNER AND CONTRACTOR.
         6.6.5.1. IN NO CASE, SHALL THE COMMENCEMENT BY THE CONTRACTOR OR A SUBCONTRACTOR OF ANY OR ALL PORTIONS OF THE WORK CONTAINED IN A CHANGE ORDER CONSTITUTE OR BE CLAIMED TO CONSTITUTE ACCEPTANCE OF THAT CHANGE ORDER BY THE OWNER OR ARCHITECT, EXCEPT THAT THE OWNER RESERVES THE RIGHT TO ISSUE A WRITTEN NOTICE TO PROCEED (OR SIMILAR DOCUMENT) TO THE CONTRACTOR, DEFINING THE EXTENT AND PORTIONS OF THE WORK CONTAINED IN THE CHANGE ORDER AND AUTHORIZING THOSE DEFINED PORTIONS OF THE WORK TO PROCEED, WITHOUT ANY SUCH NOTICE CONSTITUTING AN APPROVAL OF THE CHANGE ORDER IN IT'S ENTIRETY.
         6.6.5.2. THE CONTRACTOR SHALL NOT COMMENCE THE WORK CONTAINED AND DESCRIBED IN THE CHANGE ORDER WITHOUT RECEIVING THE OWNER'S WRITTEN APPROVAL OF THE CHANGE ORDER OR WITHOUT RECEIVING OTHER INSTRUCTION(S) FROM THE OWNER, SUCH AS A NOTICE TO PROCEED OR OTHER INSTRUCTIONS AS AGREED TO BY THE OWNER AND CONTRACTOR PRIOR TO THE COMMENCEMENT OF THE PROJECT.
         6.6.5.3. CHANGE ORDERS SHALL BE PREPARED ON AN AIA FORM OR ON A SIMILAR FORM THAT HAS BEEN PRE-APPROVED IN WRITING BY THE OWNER. IF A NON-AIA FORM IS PROPOSED TO BE USED, THE CONTRACTOR SHALL SUBMIT THE FORM TO THE OWNER A MINIMUM OF 30 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. THE CHANGE ORDER FORM SHALL BE PREPARED IN 4 PARTS; (2) SHALL BE FORWARDED TO THE OWNER, (1) SHALL BE FORWARDED TO THE ARCHITECT AND (1) SHALL BE RETAINED BY THE CONTRACTOR. CHANGE ORDERS SHALL CONTAIN THE FOLLOWING INFORMATION:
            6.6.5.3.1. THE DATE AND SEQUENTIAL NUMBER OF THE CHANGE ORDER (BEGINNING WITH #1)
            6.6.5.3.2. A CLEAR WRITTEN DESCRIPTION OF THE PROPOSED CHANGE TO THE WORK, INCLUDING REFERENCES TO THE APPROPRIATE DRAWINGS, ADDENDUM, RFIS, ETC.
            6.6.5.3.3. A CLEAR, QUANTIFIED DESCRIPTION OF ANY CHANGE TO THE CONTRACT TIME.
            6.6.5.3.4. THE DOLLAR AMOUNT OF THE CHANGE. THE AMOUNT SHALL BE BROKEN DOWN TO INCLUDE;
               6.6.5.3.4.1. ANY CHANGE TO THE BASE CONTRACT PRICE
               6.6.5.3.4.2. ANY CHANGE TO ALLOWANCE, UNIT PRICE ITEMS
               6.6.5.3.4.3. IF APPLICABLE, THE AMOUNT OF THE CONTRACTOR'S OVERHEAD AND PROFIT
         6.6.5.4. CHANGE ORDERS SHALL BE PREPARED AND FORWARDED TO THE OWNER A MINIMUM OF 30 DAYS, OR AS OTHERWISE AGREED BY THE OWNER AND CONTRACTOR IN WRITING, PRIOR TO THE CONTRACTOR'S ESTIMATED START FOR THE WORK CONTAINED AND DESCRIBED IN THE CHANGE ORDER.
         6.6.5.5. UNLESS OTHERWISE AGREED TO IN WRITING BETWEEN THE OWNER AND CONTRACTOR, CHANGE ORDER COSTS SHALL BE CARRIED AS A SEPARATE OR SERIES OF SEPARATE LINE ITEM COSTS WITHIN THE OVERALL CONSTRUCTION COST AND IN ALL CASES, SHALL BE CLEARLY DEFINED AND DELINEATED AS ADDITIONS TO THE BASE CONTRACT COST, GMP, ETC.
7. **GENERAL PROJECT MANAGEMENT**
   7.1. **SCHEDULE**: CONTRACTOR SHALL PROVIDE TO THE OWNER A MINIMUM OF 30 DAYS PRIOR TO COMMENCING ANY PORTION OF THE CONSTRUCTION, A COMPREHENSIVE CONSTRUCTION SCHEDULE USING A CPM OR SIMILAR METHOD AS AGREED UPON WITH THE OWNER.
   7.2. PROJECT REPORTING: THROUGHOUT THE PROGRESS OF THE WORK, THE CONTRACTOR SHALL MAINTAIN AT THE SITE, ONE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, RFI'S CHANGE ORDERS, SHOP DRAWINGS AND SUBMITTALS, MARKED CURRENTLY TO RECORD ALL CHANGES AND DEVIATIONS MADE DURING CONSTRUCTION. SUBMIT ALL RECORD DOCUMENTS, IN A REPRODUCIBLE FORM (PAPER OR DIGITAL), TO THE OWNER AT THE COMPLETION OF THE WORK.
   7.3. FIELD LOG: THE CONTRACTOR AND/OR THE CONTRACTOR'S ON-SITE REPRESENTATIVE SHALL MAINTAIN A DAILY FIELD-LOG, IN DIGITAL OR WRITTEN FORM, DETAILING A MINIMUM OF THE FOLLOWING:
      7.3.1. CONSTRUCTIONS ACTIVITIES THAT OCCURRED,
      7.3.2. DEVIATIONS FROM THE DRAWINGS THAT WERE APPROVED BY THE ARCHITECT AND INCORPORATED INTO THE WORK,
      7.3.3. LISTING OF INSPECTIONS BY OFFICIALS OF THE AHJ AND INDEPENDENT INSPECTIONS.
   7.4. AS-BUILT DRAWINGS: THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER AND ARCHITECT, 'AS BUILT DRAWINGS' ON MEDIA APPROVED BY THE ARCHITECT AND OWNER AS AGREED UPON WITH THE OWNER
   7.5. LIEN RELEASES: UNLESS OTHERWISE DIRECTED BY THE OWNER, DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE COPIES OF ALL LIEN RELEASES USING AIA DOCUMENT FORMS OR SIMILAR FORMS APPROVED BY THE OWNER FOR ALL PAYMENTS TO THE CONTRACTOR, SUBCONTRACTORS, MATERIAL AND EQUIPMENT SUPPLIERS AND OTHER PERSONS AND BUSINESSES RECEIVING PAYMENT FOR SERVICES, MATERIALS, EQUIPMENT, DEVICES, ETC.
   7.6. PROJECT ACCOUNTING
      7.6.1. PROJECT ACCOUNTING METHODS, REPORTS, UPDATES, SCHEDULES AND INVOICING SHALL BE AS DIRECTED AND/OR REQUIRED BY THE OWNER AND BY ANY CLAUSES OF THE CONTRACT(S) BETWEEN THE OWNER AND CONTRACTOR.
      7.6.2. UNLESS OTHERWISE AGREED IN WRITING BETWEEN THE OWNER AND CONTRACTOR, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A FULL AND DETAILED DESCRIPTION OF THE CONTRACTOR'S INVOICING AND ACCOUNTING METHODS, WITH ALL TERMS AND WORDS THOROUGHLY DEFINED AND SHALL SECURE THE APPROVAL OF THE OWNER FOR THESE METHODS PRIOR TO OR AS A PART OF THE CONTRACT EXECUTION PROCESS.
   7.7. PHOTOGRAPHIC DOCUMENTATION: THE CONTRACTOR AND/OR THE CONTRACTOR'S ON-SITE REPRESENTATIVE SHALL MAINTAIN A REGULAR DIGITAL PHOTOGRAPHIC RECORD OF THE CONSTRUCTION ACTIVITIES, INCLUDINMG WORK AND COMPONENTS THAT WILL NOT BE EXPOSED, AND SHALL PROVIDE THE ARCHITECT AND OWNER WITH A DIGITAL COPY OF THIS INFORMATION ON A REGULAR BASIS UPON REQUEST.
   7.8. CONSTRUCTION LAYOUT AND SURVEYING
      7.8.1. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING GRADE POINT ELEVATIONS, DATUM LINES, BENCHMARKS AND ALL SIMILAR PARAMETRIC DIMENSIONS IN ORDER TO ACCURATELY ESTABLISH THE BUILDING LINES, SETBACKS, HEIGHT AND OTHER CHARACTERISTICS IN FULL CONFORMANCE WITH THE REQUIREMENTS SET FORTH HEREIN AND IN THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SAID PARAMETRIC DIMENSIONS THROUGHOUT THE PROCESS OF THE PROJECT AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE DEVICES AND ITEMS THAT INDICATE THESE DIMENSIONS.
      7.8.2. AS PART OF THE WORK NOTED ABOVE, CONTRACTOR SHALL PROVIDE THE SERVICES OF A SURVEYOR, REGISTERED AND CERTIFIED TO PRACTICE IN THE JURISDICTION IN WHICH THE PROJECT IS BEING CONSTRUCTED, TO FIELD-VERIFY ALL DIMENSIONS, VERTICAL AND HORIZONTAL CONTROL LINES, AND SIMILAR PARAMETRIC DIMENSIONS SHOWN AND NOTED ON THE DRAWINGS, AND AS NECESSARY TO FULLY, COMPLETELY AND DEFINITELY ESTABLISH ALL FACES, HEIGHTS, SETBACKS AND OTHER CHARACTERISTICS OF THE PROJECT.
      7.8.3. SURVEYOR SHALL SET PINS, PLATES, STAKES, ETC. AS NECESSARY, TO INDICATE ALL PERTINENT CONTROL POINTS, ETC. AND SHALL COORDINATE WITH THE CONTRACTOR TO INSURE THAT THESE DEVICES ARE PROTECTED AGAINST DAMAGE, DISLOCATION, ETC.
      7.8.4. IF THE SURVEYOR, DURING THE COURSE OF HIS WORK, DISCOVERS ANY VARIANCE BETWEEN THE DIMENSIONS SHOWN AND NOTED ON THE DRAWINGS AND FIELD CONDITIONS, THE SURVEYOR SHALL IMMEDIATELY NOTIFY THE CONTRACTOR AND ARCHITECT OF ANY SUCH DISCREPANCIES IN WRITING AND SHALL ASSIST THE PARTIES IN IDENTIFYING AND RESOLVING THOSE DISCREPANCIES.
      7.8.5. THE CONTRACTOR AND/OR THE REPRESENTATIVE/SUPERINTENDENT OF THE CONTRACTOR ON SITE, SHALL FULLY REVIEW THE WORK OF THE SURVEYOR AND SHALL CROSS-CHECK THE WORK OF THE SURVEYOR WITH THE WORK, DIMENSIONS AND OTHER PERTINENT INFORMATION SHOWN AND NOTED ON THE DRAWINGS.
      7.8.6. UNLESS OTEHRWISE AGRTEED BY THE OWNER, UPON COMPLETION OF THE SURVEYOR'S INITIAL WORK AND UPON COMPLETION OF EACH SUBSEQUENT PHASE OF THE WORK, THE SURVEYOR SHALL PROVIDE A WRITTEN CERTIFICATION TO THE CONTRACTOR AND OWNER INDICATING THAT THE BUILDING HAS BEEN LAID OUT AND ALL CONTROL LINES AND POINTS ESTABLISHED CORRECTLY AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND AHJ REQUIRMENTS.
   7.9. GENERAL EXECUTION AND WORKMANSHIP
      7.9.1. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH RECOGNIZED STANDARDS OF THE CONSTRUCTION INDUSTRY AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF APPLICABLE MANUFACTURER AND TRADE ASSOCIATIONS AND ORGANIZATIONS, WHETHER OR NOT THOSE ASSOCIATIONS AND ORGANIZATIONS ARE NOTED HEREIN. WHEN THERE IS A DISAGREEMENT BETWEEN REQUIREMENTS, THE REQUIREMENTS WHICH NOTE THE GREATER QUALITY, QUANTITY OR MORE STRINGENT CHARACTERISTICS AND REQUIREMENTS FOR THE WORK SHALL TAKE PRECEDENCE, UNLESS OTHERWISE AGREED IN WRITING BY THE OWNER AND ARCHITECT PRIOR TO FABRICATION AND/OR INSTALLATION OF THE WORK.
      7.9.2. PRIOR TO COMMENCING WITH THEIR WORK, ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR INSPECTING ANY APPLICABLE SUBSTRATE AND/OR ADJACENT MATERIALS, ASSEMBLIES AND SYSTEMS THAT THEIR WORK MAY BE ATTACHED TO, JOIN OR ABUT FOR DAMAGE, APPLICABILITY AS A SUBSTRATE AND SUITABILITY FOR ATTACHING OR JOINING. ANY DEFECTS IN THE SUBSTRATE THAT CANNOT BE REMEDIED BY CLEANING AND/OR MINOR REMEDIAL WORK BY THE SUBCONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR IMMEDIATELY AND APPLICATION WORK SHALL NOT COMMENCE UNTIL SUCH REMEDIAL WORK HAS BEEN COMPLETED. FAILURE TO NOTIFY THE GENERAL CONTRACTOR OF A PROBLEM WITH A SUBSTRATE, AND/OR ADJACENT MATERIALS, ASSEMBLIES AND SYSTEM PRIOR TO COMMENCING CONSTRUCTION SHALL NOT RELIEVE THE SUBCONTRACTOR OF THE RESPONSIBILITY TO PROVIDE THEIR PORTION OF THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, MANUFACTURER'S REQUIREMENTS, GOOD CONSTRUCTION PRACTICES AND THE REQUIRMENTS OF THE AHJ WITHOUT ADDITIONAL COST TO THE OWNER.
      7.9.3. CUTTING AND PATCHING
         7.9.3.1. ALL WORK SHALL BE COORDINATED AND INSTALLED SO AS TO MINIMIZE CUTTING AND PATCHING OF EXISTING SURFACES AND ITEMS AND/OR NEWLY INSTALLED ITEMS, SURFACES AND ASSEMBLIES. CONTRACTOR AND SUBCONTRACTORS SHALL NOT CUT, DRILL, NOTCH OR OTHERWISE MODIFY THE STRUCTURAL CHARACTERISTICS OF STRUCTURAL MEMBERS AND NON-STRUCTURAL MEMBERS REQUIRED FOR FIRE RATINGS, WITHOUT THE EXPRESS, PRIOR WRITTEN APPROVAL OF THE AER, SER, MEPER.
         7.9.3.2. ANY ITEMS, SURFACES AND ASSEMBLIES THAT ARE CUT SHALL BE PATCHED TO MATCH COLOR, TEXTURE AND OTHER VISUAL ATTRIBUTES AND SHALL RESTORE THE ITEM, SURFACE OR ASSEMBLY TO ITS FULL FUNCTION, PURPOSE AND INTEGRITY. IF SUCH RESTORATION IS NOT POSSIBLE, THE ITEM, SURFACE OR ASSEMBLY SHALL BE REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
         7.9.3.3. SPECIAL ATTENTION SHALL BE PAID TO PENETRATIONS IN FIRE-RATED ASSEMBLIES AND TO MINIMIZING CUTTING SO AS TO MINIMIZE THE ANNULAR SPACE AROUND THE PENETRANT.
      7.9.4. **COORDINATION:** THE CONTRACTOR, SUBCONTRACTORS AND OTHER FABRICATORS/SUPPLIERS SHALL ASSIST EACH OTHER IN RESOLVING SPACE AND/OR INSTALLATION PROBLEMS AND SHALL MAKE EVERY POSSIBLE EFFORT TO COORDINATE THEIR RESPECTIVE WORK WITH THE WORK OF OTHERS. THE CONTRACTOR SHALLSCHEDULE AND CONDUCT SUBCONTRACTOR MEETINGS AS NECESSARY ON A REGULAR BASIS AND PRIOR TO SUBCONTRACTIONG WORK STARTING TO INSURE THAT ALL SUBCONTRACTORS ARE AWARE OF REEQUIREMENTS, TIMING AND RESPONSIBILITIES.
         7.9.4.1. DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PORTABLE BATHROOM FACILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AHJ AND IN SUFFICIENT QUANTITY AND ADEQUATE LOCATION TO PROTECT THE HYGIENE OF ALL PERSONS ON THE SITE.
         7.9.4.2. CONTRACTOR AND SUBCONTRACTORS SHALL NOTIFY MISS UTILITY OR SIMILAR AGENCY AND SHALL COORDINATE ALL EXCAVATING AND DEMOLITION WITH ALL APPLICABLE UTILITY COMPANIES AND AHJ BODIES/ENTITIES AND SHALL MAKE ALL NECESSARY EFFORTS TO PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
         7.9.4.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL NECESSARY TEMPORARY UTILITY CONNECTIONS THROUGHOUT CONSTRUCTION OPERATIONS. TEMPORARY UTILITY LINES AND THEIR LOCATIONS AND CONNECTIONS SHALL BE REVIEWED AND APPROVED BY THE UTILITY HAVING JURISDICTION AND THE AHJ, AS NECESSARY. ALL SUCH LINES AND CONNECTIONS SHALL BE FULLY PROTECTED TO PREVENT ACCIDENTAL DAMAGE AND INJURY. IN NO CASE, SHALL ANY SUCH LINES OR CONNECTIONS BE LOCATED OR LEFT UNPROTECTED IN PROXIMITY TO A PUBLIC RIGHT-OF-WAY

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NOR WITHIN ACCESS OF ANY UNAUTHORIZED PERSON, WHETHER SUCH PERSON IS IN A PUBLIC RIGHT-OF-WAY OR ON THE CONSTRUCTION SITE.
         7.9.4.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE CHARGES FOR ALL TEMPORARY UTILITIES THROUGHOUT THE CONSTRUCTION PROCESS UNLESS OTHERWISE AGREED IN WRITING BY THE OWNER AND CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
      7.9.5. CONSTUCTION FACILITIES, PROTECTION, TEMPORARY BARRIERS AND CONTROLS
         7.9.5.1.1. CONTRACTOR SHALL PROVIDE SECURITY FENCE(S), AS NECESSARY, TO FULLY PROTECT AND SECURE THE ENTIRE PROJECT SITE FROM UNAUTHORIZED ENTRY OF VEHICLES OR PERSONS. SUCH FENCES SHALL BE INSTALLED AND LOCATED IN CONFORMANCE WITH THE REQUIREMENTS OF THE AHJ AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL SUCH PERMITS REQUIRED BY THE AHJ. THE FENCE(S) AND ANY ACCESS GATES SHALL BE EQUIPPED WITH LOCKING DEVICES AND ALL GATES AND SIMILAR OPENINGS SHALL BE KEPT LOCKED AND SECURED DURING ALL HOURS WHEN CONSTRUCTION OPERATIONS ARE NOT OCCURRING. ADDITIONALLY, ALL GATES AND SIMILAR OPENINGS SHALL BE SECURED AND LOCKED UPON THE REQUEST OF THE OWNER AT OTHER THAN THE ABOVE TIMES, TO PREVENT UNAUTHORIZED ENTRY.
         7.9.5.1.2. THE WORK SHALL BE PROTECTED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND AMENDMENTS AND/OR SIMILAR REQUIREMENTS OF THE AHJ.
         7.9.5.1.3. TEMPORARY SIDEWALK PROTECTION AND COVERS AND OTHER PROTECTIVE DEVICES FOR PUBLIC WAYS SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND UPDATING THE AHJ REQUIRED PERMITS FOR ANY SUCH DEVICES.

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RESPONSIBILITY OF BUILDING OWNER AND/OR HOA OTHER ENTITIES TO PERFORM MAINTENANCE

THE DRAWINGS AND SPECIFICATIONS, IF PROVIDED, PROVIDE GUIDANCE FOR THE CONSTRUCTION OF THE PROJECT. THEY DO NOT PROVIDE FACILITIES MAINTENANCE INFORMATION OR MAINTENANCE PROTOCOLS, UNLESS OTHERWISE NOTED. HOWEVER, MAINTENANCE INFORMATION AND PROTOCOLS ARE IMPORTANT TO PRESERVE THE BUILDING'S INTEGRITY AND SAFETY AND THE ARCHITECT RECOMMENDS THAT THIS INFORMATION BE COMPILED AND PROVIDED TO APPLICABLE ENTITIES, INCLUDING THE BUILDING OWNER, BUILDING PROPERTY MANAGEMENT REPRESENTATIVE, HOA(S), ASSOCIATIONS AND ANY COMMON INTEREST OWNERSHIP ASSOCIATION.

SYSTEMATIC AND PERIODIC MAINTENANCE IS REQUIRED OF ANY BUILDING AND MUST BE PROVIDED BY THE BUILDING OWNER AND/OR APPLICABLE END USERS/REPRESENTATIVES. PERIODIC INSPECTIONS OF INSTALLED COMPONENTS MUST BE PROVIDED BY AN ACCREDITED AND EXPERIENCED ENTITY TO VERIFY EXISTING, CURRENT CONDITIONS AND TO RECOMMEND MAINTENANCE MEASURES. AREAS TO BE INSPECTED INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. CLADDING SYSTEM
2. SEALANT JOINTS
3. FLASHING
4. EXPANSION AND CONTROL JOINTS
5. CONCRETE SURFACES
6. ROOF MEMBRANE
7. GREEN ROOF
8. PAINT FINISHES
9. GASKETS AND OTHER ITEMS WITHIN OR SEPARATE FROM INSTALLED SYSTEMS
10. SPRINKLER AND FIRE ALARM SYSTEM
11. ELEVATOR
12. HVAC SYSTEMS

19679-Submittal and Shop Drawing Notes-051920

SUBSTITUTIONS, SUBMITTALS AND SHOP DRAWINGS

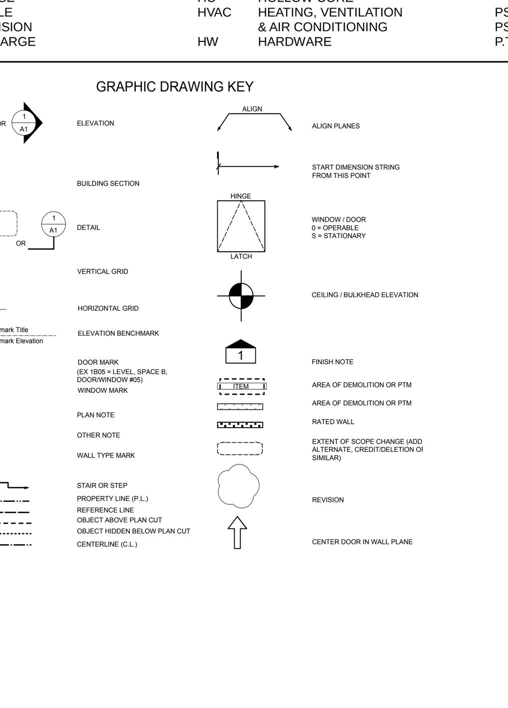
1. SUBSTITUTIONS AND SUBMITTALS SHALL BE AS NOTED IN THE SPECIFICATIONS, HEREIN OR, IF NOT NOTED, SHALL BE AS DEFINED BY THE MOST RECENT EDITION OF THE AIA GENERAL CONDITIONS AND ASSOCIATED DOCUMENTS OR OTHER MUTUALLY AGREED UPON DOCUMENTS AND SHALL COMPLY WITH THE FOLLOWING.
   1.1. SHOP DRAWINGS, PDS/SUTSHEETS, SAMPLES AND SUBSITUTION REQUESTS ARE ALL CONSIDERED SUBMITTALS FOR THE PURPOSE OF SETTING FORTH THE PROCESSES AND REQUIREMENTS BELOW
   1.2. SUBMITTALS SHALL BE SUBMITTED A MINIMUM OF 30 BUSINESS DAYS PRIOR TO THE ORDERING AND/OR INSTALLATION DATE AND AS NOTED BELOW
   1.3. ALL SUBMITTALS SHALL BE SUBMITTED IN A DIGITAL FORMAT FOLLOWING AND AGREED UPON NUMBERING SYSTEM
   1.4. IN NO CASE, SHALL WORK AND/OR MATERIALS AND ITEMS THAT REQUIRE SUBMITTALS BE ORDERED, MODIFIED OR INSTALLED WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT/OWNER.
   1.5. THE PRODUCTS SPECIFIED HEREIN AND IN THE DRAWINGS SET THE STANDARDS OF QUALITY, MATERIAL, DURABILITY, EFFICIENCY, FINISH, ASSEMBLY AND PERFORMANCE. THEY MAY ALSO CONSTITUTE THE BASIS OF DESIGN. THE USE OF PROPRIETARY SPECIFICATIONS IS NOT INTENDED TO LIMIT COMPETITION. UNLESS OTHERWISE SPECIFICALLY NOTED, ALL PROPRIETARY SPECIFICATIONS SHALL BE AMENDABLE TO ALTERNATIVES SUBJECT TO THE FOLLOWING CONDITIONS:
      1.5.1. IN THE SOLE OPINION OF THE ARCHITECT, THE ALTERNATIVES ARE EQUAL OR BETTER IN EVERY RESPECT TO THE SPECIFIED ITEMS AND PRODUCTS.
      1.5.2. IN THE SOLE OPINION OF THE ARCHITECT, THE ALTERNATIVES COMPLY WITH THE DESIGN INTENT OF THE PROJECT AND WORK.
      1.5.3. THE REQUESTS FOR SUBSTITUTIONS ARE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PORTIONS OF THE SPECIFICATIONS
      1.5.4. THE REQUESTS FOR SUBSTITUTIONS ARE SUBMITTED IN A TIMELY MANNER AND ARE APPROVED BY THE ARCHITECT AND/OR OWNER IN WRITING PRIOR TO ORDERING ANY SUCH ITEMS, COMMENCEMENT OF THE WORK AND/OR INSTALLATION OF ANY SUCH ITEMS.
      1.5.5. NO SUBSTITUTIONS SHALL BE ALLOWED FOR ITEMS NOTED AS " NO SUBSTITUTION" OR SIMILAR NOTED IN THE SPECIFICATIONS AND/OR DRAWINGS.
      1.5.6. SUBSTITUTIONS SHALL BE SUBMITTED FOR CONSIDERATION A MINIMUM OF 30 BUSINESS DAYS PRIOR TO THE ORDERING AND/OR INSTALLATION DATE OF THE PROJECT SCHEDULE (WHICH EVER IS EARLIER) AND IN ALL CASES, SHALL BE SUBMITTED IN SUFFICIENT TIME TO ALLOW THE ARCHITECT'S CONSIDERATION AND TO PREVENT SCHEDULE PROBLEMS DUE TO ORDERING TIME DELAYS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE PROPOSED SUBSTITION WILL NOT NEGATIVELY IMPACT THE PROJECT SCHEDULE AND THE OWNER SHALL BE UNDER NO OBLIGATION TO ADJUST SAID SCHEDULE FDUE TO SUCH DELAYS.
      1.5.7. REQUESTS FOR SUBSTITUTIONS SHALL INCLUDE SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND ADDITIONAL INFORMATION NECESSARY TO DEMONSTRATE THAT THE PROPOSED SUBSTITUTION IS EQUAL OR BETTER IN EVERY RESPECT TO THE SPECIFIED PRODUCT. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR PROVIDING THIS INFORMATION OR OTHERWISE RESEARCHING A PROPOSED SUBSTITUTION. THE ARCHITECT RESERVES THE RIGHT TO REQUEST ADDITIONAL DOCUMENTATION IF, IN THE ARCHITECT'S SOLE OPINION, THE SUPPLIED INFORMATION IS INADEQUATE TO DETERMINE THE CHARACTERISTICS OF THE PROPOSED SUBSTITUTION.
      1.5.8. SUBSTITUTIONS SO SUBMITTED SHALL INCLUDE ANY AND ALL ADJUSTMENTS OF THAT TRADE AND ANY OTHER TRADES AFFECTED THEREBY. SUBSTITUTIONS WHICH, IN THE SOLE OPINION OF THE ARCHITECT, REQUIRE ALTERATIONS TO THE DESIGN INTENT AS SHOWN AND NOTED IN THE DRAWINGS AND SPECIFICATIONS WILL NOT BE APPROVED.
   1.6. THE ARCHITECT WILL ENDEAVOR TO RESPOND TO SUBSTITUTION REQUESTS AND ANY SUBMITTED SHOP DRAWINGS AND OTHER SUBMITTALS WITHIN 14 BUSINESS DAYS OF RECEIPT OF A COMPLETE, SATISFACTORY SUBMITTAL. APPROVAL OF THESE SUBMITTALS SHALL NOT BE CONSTRUED AS CHANGING OR REVISING ANY OTHER PARTS OF THE CONTRACT DOCUMENTS AND DRAWINGS AND SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE A COMPLETED AND FULLY FUNCTIONAL PROJECT CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES WITHIN THE REQUIRED AND/OR CONTRACTURAL TIME-FRAME. THE ARCHITECT SHALL NOT BE BOUND BY A SPECIFIC SCHEDULE AND NO CLAIM FOR DAMAGES SHALL BE ALLOWED BASED ON THE ARCHITECT'S TIME FOR REPONSE(S)
   1.7. GENERAL SUBMITTALS PROCEDURES
      1.7.1. CONTRACTOR/SUBCONTRACTOR (SUBMITTEE) SHALL SUBMIT TO THE ARCHITECT, SAMPLES, SHOP DRAWINGS AND PRODUCT DATA WHEREVER CALLED FOR IN INDIVIDUAL SECTIONS OF EACH DIVISION OF THESE SPECIFICATIONS OR IN THE SUBMITTALS LOG/MATRIX AND AS NOTED ON THE DRAWINGS.
      1.7.2. SUBMITTAL SHALL BE A MINIMUM OF FIVE COPIES OF ALL REQUIRED INFORMATION WITH LETTER OF TRANSMITTAL UNLESS OTHERWISE SPECIFICALLY NOTED.
      1.7.3. THE APPROVAL OR ACCEPTANCE OF SAMPLES, SHOP DRAWINGS AND PRODUCT DATA WILL NOT PRECLUDE THE REJECTION OF ANY MATERIAL AND/OR PRODUCT UPON THE DISCOVERY OF DEFECTS IN SAME PRIOR TO THE FINAL ACCEPTANCE OF THE COMPLETE WORK.
      1.7.4. CONTRACTOR/SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DELAY IN THE PROGRESS OF THE WORK WHICH MAY BE DUE TO THE CONTRACTOR/SUBCONTRACTOR(S) FAILURE TO CONFORM WITH THESE REQUIREMENTS; CONTRACT TIME(S) SHALL NOT BE EXTENDED DUE TO FAILURE TO SUBMIT SAMPLES, SHOP DRAWINGS AND PRODUCT DATA PROMPTLY.
      1.7.5. SUBSTITUTIONS FOR APPROVED MATERIALS WILL BE ALLOWED UNDER THE CONDITIONS NOTED ELSEWHERE. SUBMITTALS INCLUDING SAMPLES, SHOP DRAWINGS, MATERIAL LISTS, MANUFACTURER'S LITERATURE AND OTHER REQUIRED INFORMATION SHALL BE MADE SUFFICIENTLY IN ADVANCE OF REQUIREMENTS, AND AS NOTED, TO ALLOW THE ARCHITECT ADEQUATE TIME FOR REVIEW AND PROPER CONSIDERATION AND ACTION ON THOSE SUBMITTALS. IN NO CASE SHALL SUBMITTALS BE MADE LESS THAN 30 CALENDAR DAYS IN ADVANCE OF SUCH REQUIREMENTS.
      1.7.6. SUBMITTALS SHALL BE PROPERLY LABELED AND SHALL INDICATE SPECIFIED SERVICE FOR WHICH MATERIAL, EQUIPMENT OR ITEM IS TO BE USED, SECTION AND/OR ARTICLE NUMBER OF SPECIFICATIONS GOVERNING, SUBMITTEES'S NAME AND PROJECT NAME.
      1.7.7. IF THE SUBMITTALS AND/OR SHOP DRAWINGS SHOW VARIATIONS FROM THE REQUIREMENTS OF THE CONTRACT, THE SUBMITTEE SHALL MAKE SPECIFIC MENTION OF SUCH VARIATION IN THE TRANSMITTAL LETTER; IF NO MENTION IS MADE, THE SUBMITTEE SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF EXECUTING THE WORK IN ACCORDANCE WITH THE CONTRACT EVEN THOUGH SUCH SUBMITTALS HAVE BEEN APPROVED.
      1.7.8. SUBMITTALS WHICH ARE REJECTED BY THE ARCHITECT SHALL BE RE-SUBMITTED AS SOON AS POSSIBLE AFTER NOTIFICATION OF THE REJECTION AND SHALL BE MARKED "RESUBMITTED", IN ADDITION TO THE OTHER INFORMATION REQUIRED.
      1.7.9. SHOP DRAWINGS SHALL BE EXAMINED BY THE SUBMITTEE AND ALSO BY THE CONTRACTOR IF THE CONTRACTOR IS NOT THE DIRECT SUBMITTEE, PRIOR TO TRANSMITTAL TO THE OWNER AND/OR ARCHITECT. SUBMITTED SHOP DRAWINGS SHALL BEAR THE SUBMITTEE'S SIGNATURE OF APPROVAL INDICATING THAT THE SUBMITTEE HAS EXAMINED AND CHECKED EACH DRAWING AND HAS FOUND SAID DRAWINGS TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY SHOP DRAWING SUBMITTED WITHOUT SUCH APPROVAL SHALL NOT BE CONSIDERED BY THE ARCHITECT AND SHALL BE RETURNED FOR RE-SUBMITTAL. THE ARCHITECT IS NOT RESPONSIBLE FOR DETERMINING THE EXTENT OF NON-COMPLIANCE OR DEPARTURE FROM THE CONTRACT DOCUMENT REEQUIREMENTS
      1.7.10. THE APPROVAL OF SAMPLES, SHOP DRAWINGS AND PRODUCT DATA, ETC. BY THE ARCHITECT SHALL BE GENERAL AND SHALL NOT BE UNDERSTOOD AS:
         1.7.10.1. MEANING THAT THE SUBMITTED ITEMS HAVE BEEN CHECKED IN DETAIL,
         1.7.10.2. RELIEVING THE SUBMITTEE FROM RESPONSIBILITY, NOR THE NECESSITY OF FURNISHING THE MATERIAL, FOR PERFORMING THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS,
         1.7.10.3. PERMITTING ANY DEPARTURE FROM THE CONTRACT DOCUMENTS,
         1.7.10.4. RELIEVING THE SUBMITTEE OF THE RESPONSIBILITY FOR ANY ERRORS IN DETAILS, DIMENSIONS OR OTHERWISE,
         1.7.10.5. APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE, WITHOUT SPECIFIC WRITTEN APPROVAL,
         1.7.10.6. A GUARANTEE OF MEASUREMENTS OF BUILDING CONDITION(S).
      1.7.11. THE CONTRACTOR SHALL MAINTAIN AN OFFICE FILE SET OF ALL SUBMISSIONS AND SHALL ALSO MAINTAIN A PARALLEL SET OF APPROVED SUBMISSIONS AT THE CONSTRUCTION SITE.

PROJECT #		PROJECT NAME			
19679		Madison County Administration Center Consolidation			
LINE ITEM	TYPE	ITEM	DESCRIPTION	REVIEWER	COMMENT
1	SUBM	AIR HANDLER AND CONDENSOR UNITS	See HVAC Equipment Submittal	Architect, Mechanical Engineer	
2	SUBM	APPLIANCES	See Specs, if provided, for any submittal requirements. Provide cutsheet to confirm Mbh for stove and gas fireplace. Possible items: Refrigerator, stove, oven, range, hood, microwave, dishwasher, clothes washer, dryer, garbage disposal.	Architect, Owner	
3	SUBM	BATHROOM / RESTROOM FINISHES	Towel bar, TP holder, vanity, vanity top, medicine cabinet, grab bars, mirror, paper towel dispenser, warm air hand dryer, toilet seat cover dispenser, trash receptacle, soap dispenser, hygienic products vendor, baby changing station, toilet compartment panels and doors, shower seat, shower door, shower curtain rod, clothes hook, recessed soap dish.	Architect	
4	SUBM	CABINETRY	See spec. Base, wall, countertop, wood species, finish, style, hardware.	Architect, Owner	
5	SUBM	CAP FLASHING, PARAPET	See specs; aluminum color	Architect	
6	SUBM	CARPET	Material, color	Architect, Owner	
17	SUBM	DOOR HARDWARE	See spec.	Architect	
19	SUBM	DOORS, EXTERIOR	Confirm sizes, operation, tempered glass, NFRC R/U values, hardware, cladding color	Architect	
20	SUBM	DOORS, INTERIOR	Confirm height	Architect, Owner	
23	SUBM	DUCT RISER FAN	See mechanical equipment submittals	Architect, Mechanical Engineer	
25	SUBM	ELECTRICAL	Fuses, switches, receptacles, switchboards, panelboards, and disconnect switches. Note: all electrical materials and equipment installed in location exposed to moisture or the elements shall be weatherproof, whether or not shown or noted.	Architect Electrical Engineer	
26	SUBM	ELECTRICAL FIXTURE SUBMITTALS	Not required under IRC. Provide certifcation of IC compliance for any lighting within insulated assemblies. Under IBC: Recessed downlight, ceiling mounted, wall mounted, wall sconce, undercabinet, pendant, 2x4 surface mounted, utility, smoke detector, emergency lighting, exit sign, motion sensor, exterior flood light on photovoltaic or timer, fixtures listed for installation in rated flr-clg assemblies, high-efficiency lamps where required, fixture compliance with exterior lighting zones, mercury content per lamp, occupancy sensors.	Architect	
29	SHOP + SUBM	EMBED SHOP DRAWING AND PRODUCT SUBMITTAL	Curtain walls, brick, railings or any other necessary embeds to be installed at the time of pour.	Architect, Structural Engineer	
30	SUBM	FANS, DUCT RISER		Architect, Mechanical Engineer	
31	SUBM	FANS, ROOFTOP		Architect, Mechanical Engineer	
34	SHOP + SUBM	FIRE ALARM SYSTEM SHOP DRAWING SUBMITTAL	Fire alarm control panel with additional battery capacity as required, fire alarm annunciator, fire alarm terminal cabinet, manual pull stations, strobe lights, audible devices with required min. sound levels, smoke detectors, emt conduit or approved fire rated flexible cable, elevator shunt trip mechanism.	Architect, Electrical Engineer	
36	SUBM	FLOORING, CARPET		Architect, Owner	
37	SUBM	FLOORING, CERAMIC TILE		Architect	
38	SUBM	FLOORING, ENGINEERED WOOD	See #101	Architect	
39	SUBM	FLOORING, VINYL COMPOSITION TILE		Architect	
41	SHOP	FRAMING CONTRACTOR SUBMITTALS, LIGHT GAUGE STRUCTL STL FRAMING	Shop Drawings indicating the number, size, dimension, method of mounting/attachment for all framing items, typical framing, header, jack and similar details and panel details. PDS for steel studs, runners, etc. Material sizes specifications and typical details.	Architect, Structural Engineer	
42	SUBM	FURNITURE	Manuf, model, color	Architect	
46	SUBM	HATCH, ROOF	Provide cutsheet if different model substituted for spec'd model. Ladder access, service stair access, ship stair access, R rating, thermal break, safety railing, self-closing gate, security, color.	Architect	
47	SUBM	HVAC EQUIPMENT SUBMITTAL	Heat pump AC unit of Indoor air handler w/ condensate pump, and outdoor unit, unit heater; if to be 'Approved Equal', compare to verify all characteristics, to include equipment sizes, are equal.	Architect and Mechanical Engineer	
48	SUBM	HVAC SYSTEMS COMMISSIONING SUBMITTALS	Not req'd for single family. Commissioning agent will provide a list of submittals to be reviewed by the commissioning agent. The list will be reviewed and approved by the architect prior to forwarding to the contractor.	Architect	
49	SUBM	INTERIOR FRAMING	Interior non load bearing framing and GPDW. As requested by Archt, provide field mockup of shear wall.	Architect	
51	SUBM	LIGHTING FIXTURES	See electrical fixtures	Architect	
54	SHOP	MECHANICAL AS BUILT DRAWINGS	Provide as built if any deviation from approved shop drawings.	Architect, Owner	
55	SUBM	MECHANICAL EQUIPMENT SUBMITTALS	See #47, or HVAC equipment, exhaust fans, duct riser fans.	Architect, Mechanical Engineer	
56	SHOP	MECHANICAL SHOP DRAWINGS	Showing duct work, exhaust piping	Architect, Mechanical Engineer	
57	SUBM	MOULDING, WOOD	Casing, backband, brickmould, shoe, plinth, rosette, base cap, base, crown, dentil, crown backer, rake mould, chair rail, stop, panel mould, inside corner, outside corner, edging, quarter round, half round, full round, mullion, handrail, stair parts, stool and sill, door jamb, paneling, siding,	Architect	
58	SUBM	OFFICE EQUIPMENT	Manuf, model	Architect	
59	SUBM	PAINT	See specs for submittal requirements.	Architect	
61	SUBM	PIPE WRAP		Architect	
62	SUBM	PLUMBING	Product data sheets, cut sheets for all DWV, water and gas piping, heat tape, insulation.	Architect, Plumbing Engineer	
63	SHOP	PLUMBING AS BUILT DRAWINGS	Including all hot and cold water supply lines and gas lines.	Architect Owner	
64	SUBM	PLUMBING FIXTURES	Confirm EPA water Sense certification as applicable. Toilet, lavatory, tub, bidet, urinal, faucet, bath & shower trim, handshower, shower head, tub spout, kitchen sink conforming to GCCC Sec 702 max flow rates and displaying WaterSense label.	Architect, Owner	
65	SUBM	PLUMBING SYSTEMS COMMISSIONING SUBMITTALS	Commissioning not required under IRC. Provide spec required pressure/leakage testing. Under IGCC, Commissioning agent will provide a list of submittals to be reviewed by the commissioning agent. The list will be reviewed and approved by the architect prior to forwarding to the contractor.	Architect	
66	SUBM	PUMP, DOMESTIC BOOSTER		Architect, Plumping Engineer	
73	SUBM	SECURITY AND INTERCOM	See Specs	Architect	
75	SUBM	SIGNAGE	Material, size, shape, color, texture, lettering, verbage, mounting locations, code compliance;	Architect	
76	SHOP	SLEEVE DRAWINGS, PLUMBING AND MECH	Necessary if concrete flat slab construction.	Architect, Structural Engineer	
84	SUBM	TILE	Material, color, shape, slip coeffient	Architect	
85	SUBM	TILE, GROUT	Color	Architect	
86	SUBM	WATERPROOFING	See specs	Architect	
87	SUBM	WEATHER RESISTANT BARRIER	Comply with code requirements	Architect	
88	SUBM	WINDOWS, EXTERIOR	See specs; provide verification of WOCD components, sizes, R/U values, NFRC certifcation, hardware/screen color, cladding color, glazing	Architect	
89	SUBM + SHOP	WINDOWS, STOREFRONT	Layout, dims, material, color, thermal break	Architect	
90	SUBM	WOOD JOISTS	See #101	Architect, Structural Engineer	
96	SUBM	CLOSED CELL FOAM INSULATION	Provide cut submittal indication R value/inch, vapor permeance, etc.	Architect	
99	SUBM/ REPORT	AIR SEALING	Provide air sealing report/confirmation	Architect, Owner	

ABREVIATIONS

@	AT	DS	DOWNSPOUT	HDR.	HEADER	PERIM.	PERIMETER
ABV.	ABOVE	DT	DRAIN TILE	HGT.	HEIGHT	PLUMB.	PLUMBING
A.V.S.B.	ACOUSTIC VINYL SOUND BARRIER	DWG	DRAWING	HM	HOLLOW METAL	R.O.	ROUGH OPENING
A.C.T.	ACOUSTICAL CEILING TILE	DETL.	DETAIL	HORIZ.	HORIZANTAL	RWC	RAIN WATER CONDUCTOR
A.F.F.	ABOVE FINISHED FLOOR	(E)	EXISTING	INSUL.	INSULATION	REINF.	REINFORCED
ADJ.	ADJUSTABLE	E.C.	ELECTRICAL CONTRACTOR	INT.	INTERIOR	REQ.	REQUIRED
ALT.	ALTERNATE	ELEC.	ELECTRICAL	JAN.	JANITOR	RESP.	RESPONSIBLE
ALUM.	ALUMINUM	ELEV.	ELEVATION	JT.	JOINT	RET.	RETURN
ARCH.	ARCHITECTURAL	EQ.	EQUIVALENT	JST	JOIST	RM	ROOM
BD	BEAD	EXPAN.	EXPANSION	KD	KNOCKDOWN	S.F.	SQUARE FEET
B.F.F.	BELOW FINISHED FLOOR	EXT.	EXTERIOR	L.F.	LINEAR FOOT	S.S.R	STANDING SEAM ROOF
BSMNT	BASEMENT	F.G.	FIBERGLASS	M.C.	MECHANICAL CONTRACTOR	SCHED.	SCHEDULE
BLK'G	BLOCKING	F.F.	FINISHED FLOOR	MR	MOISTURE RESISTANT	STD.	STANDARD
B.O.	BOTTOM OF	FIN.	FINISH	MRB	MOISTURE RESISTANT BOARD	STL.	STEEL
BOT.	BOTTOM	FLR.	FLOOR	MANUF.	MANUFACTURED	STOR.	STORAGE
BRD.	BOARD	FND.	FOUNDATION	MAX.	MAXIMUM	STRUCT	STRUCTURAL
BLDG.	BUILDING	FOF	FACE OF FRAMING	MECH.	MECHANICAL	T&G	TONGUE & GROOVE
C.T.	CERAMIC TILE	FOM	FACE OF MASONRY	MIN.	MINIMUM	TEMP.	TEMPORARY
CLG.	CEILING	FRMG.	FRAMING	MTL.	METAL	T.O.	TOP OF
CLOS.	CLOSET	FT.	FOOT/FEET	NIC	NOT IN CONTRACT	TYP.	TYPICAL
CMU	CONCRETE MASONRY UNIT	FTG.	FOOTING	O.C.	ON CENTER	U.G.	UNDERGROUND
CONC.	CONCRETE	F.V.	FIELD VERIFY	OSB	ORIENTED STRAND BRD	U.N.O.	UNLESS NOTED OTHERWISE
CONST.	CONSTRUCTION	G.C.	GENERAL CONTRACTOR	PT'D	PAINTED	VWC	VINYL WALLCOVERING
CRS	COURSE	GPDW	GYPSUM DRYWALL	PL	PLATE	VERT.	VERTICAL
DBL	DOUBLE	GA.	GAUGE	P.C.	PLUMBING CONTRACTOR	V.C.T.	VINYL COMPOSITE TILE
DIM	DIMENSION	GALV.	GALVANIZED	PSF	PER SQUARE FOOT	W/	WITH
DISCH	DISCHARGE	HC	HOLLOW CORE	PSI	PER SQUARE INCH	W/O	WITHOUT
		HVAC	HEATING, VENTILATION & AIR CONDITIONING	P.T.	PRESSURE TREATED	W.W.F.	WELDED WIRE FABRIC
		HW	HARDWARE			WD.	WOOD

GRAPHIC DRAWING KEY



Madison County Administration Center Consolidation
410 and 414 North Main Street,
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No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
1	6/3/20	DD Progress

Date: 021120
Revision: Revision
Project ID: 19679
Drawing Code: DrawingCode
CAD File Name: 19679-sd-main-rz-060220
Plot Date: 00/00/00
Designed By:
Drawn By:
Checked By:
Reviewed By:
Submitted By:
Project Manager:

Design Firm
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Consultant

Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
COVER SHEET

Scale
Sheet Scale

Drawing No.
A000
of

19079-UC-060120

SHEET #	DESCRIPTION	REVISION/ADDENDUM+DATE											
		DD Progress											
ARCHITECTURAL													
A000	COVER SHEET	X											
A001	TABLE OF CONTENTS	X											
A140	GRAPHIC PLAN DIAGRAMS												
A200	ARCH SITE PLAN-EXISTING												
A201	ARCH SITE PLAN-NEW												
A241	ARCH DEMO FLR PLAN-BLDG 410	X											
A242	ARCH DEMO FLR PLAN-BLDG 414	X											
A301	ARCH NEW FLR PLAN-BLDG 410	X											
A302	ARCH NEW FLR PLAN-BLDG 414	X											
A400	RCP-BLDG 410												
A401	RCP-BLDG 414												
A700	WALL TYPES												
A740	TYPICAL WALL AND FLOOR DETAILS												
A741	ACOUSTICAL DETAILS	X											
A742	ACOUSTICAL DETAILS	X											
A750	FIRE PROTECTION DETAILS												
A751	FIRE PROTECTION/BLOCKING DETAILS												
A770	ACCESSIBILITY DETAILS												
A800	ENLARGED KITCHEN AND RESTROOM PLANS-BLDG 410	X											
A801	INTERIORS-BLDG 410	X											
A802	INTERIORS-BLDG 410	X											
A803	INTERIORS-BLDG 410	X											
A810	ENLARGED KITCHEN AND RESTROOM PLANS-BLDG 414	X											
A811	INTERIORS-BLDG 414	X											
A812	INTERIORS-BLDG414	X											
A813	INTERIORS-BLDG 414	X											
A814	INTERIORS-BLDG 414	X											
A900	DOOR SCHEDULE	X											
A901	FINISH SCHEDULE	X											
A1000	PROJECT GENERAL NOTES	X											
A1200	ARCH FURN PLAN-BLDG 410	X											
A1201	ARCH FURN PLAN-BLDG 414	X											
MECHANICAL/ELECTRICAL/PLUMBING													
M001	MECHANICAL LEGEND, NOTES & SPECIFICATIONS	X											
M002	MECHANICAL EQUIPMENT SCHEDULES	X											
M101	BUILDING 410 MECHANICAL DEMOLITION PLAN	X											
M102	BUILDING 414 MECHANICAL DEMOLITION PLAN	X											
M201	BUILDING 410 MECHANICAL NEW WORK PLAN	X											
M202	BUILDING 414 MECHANICAL NEW WORK PLAN	X											
E001	LEGENDS, NOTES, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS	X											
E010	LIGHT FIXTURE CUT SHEETS	X											
E011	LIGHT FIXTURE CUT SHEETS	X											
E200	BUILDING 410 FLOOR PLAN - LIGHTING	X											
E201	BUILDING 414 FLOOR PLAN - LIGHTING	X											
E300	BUILDING 410 FLOOR PLAN - POWER	X											
E301	BUILDING 414 FLOOR PLAN – POWER	X											
P001	PLUMBING LEGEND, NOTES, ABBREVIATIONS & SPECIFICATIONS	X											
P002	PLUMBING FIXTURE AND EQUIPMENT SCHEDULES	X											
P101	BUILDING 410 PLUMBING DEMOLITION PLAN	X											
P102	BUILDING 414 PLUMBING DEMOLITION PLAN	X											
P201	BUILDING 410 PLUMBING NEW WORK PLAN	X											
P202	BUILDING 414 PLUMBING NEW WORK PLAN	X											
NOTES													

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No.	Date	Revision/Notes

No.	Date	Issue/Notes
1	6/3/20	DD Progress

Project No.	011718
Revision	Revision
Issued	19079
Drawing Type	Drawing Code
Filename	19079-cd-man-a-000120
Plotted On	00/00/00

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COUNTY OF MADISON, VIRGINIA
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MADISON, VA 22727

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EXISTING CONDITIONS SCOPE NOTE:

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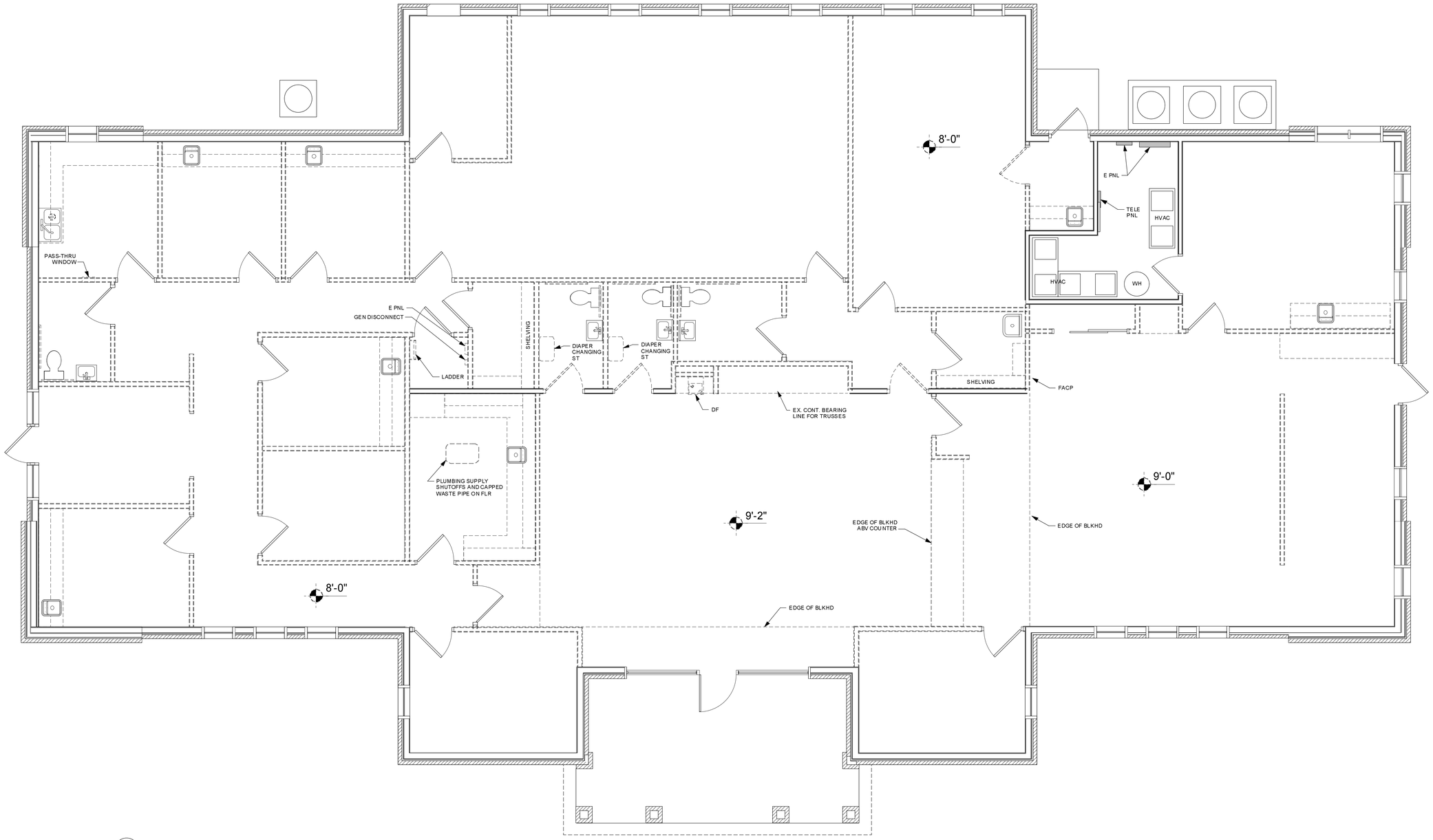

1 / A241 ARCH DEMO FIRST FLOOR PLAN-BLDG 410
Scale: 1/4" = 1'-0"

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No.	Date	Revision Notes
2	6/3/20	DD Progress
1	2/28/20	deliverable to client

Issued	02/20	
Issued	Revision	
Issued	19070	
Drawing Code	Drawing Code	
Project File	19070-cd-man-rz-000728	
Plot Date	00/00/00	

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ARCH DEMO FLR PLAN-BLDG 410

Sheet Scale

A241

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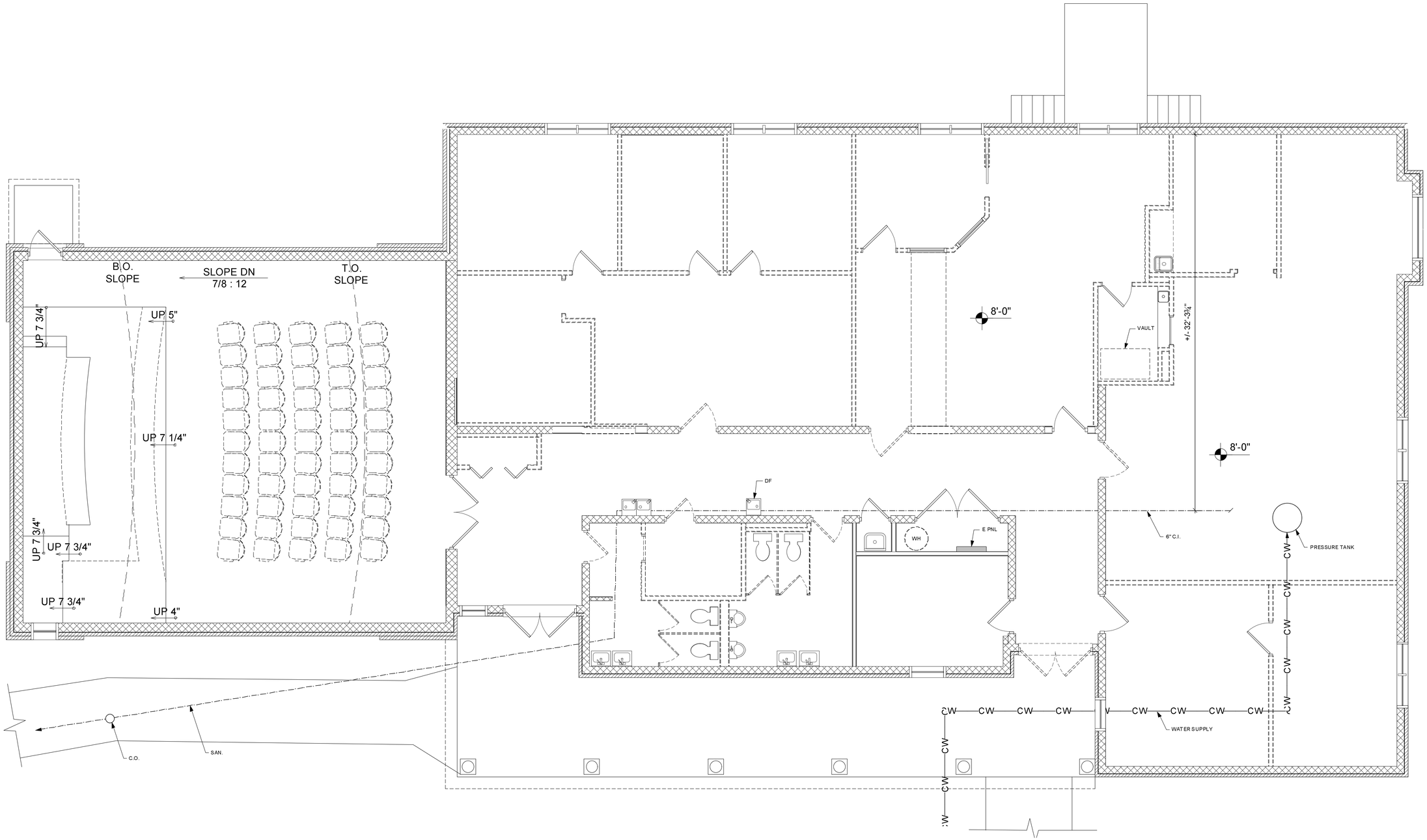

1 A242 ARCH DEMO FIRST FLOOR PLAN-BUILDING 414
Scale: 1/4" = 1'-0"

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No.	Date	Revision/Notes	Zone	Appr
2	6-3-20	DD Progress		
1	2-28-20	deliverable to client		

Project No. 02120
Revision 1
Date 1925
Drawing Code
Filename 1925-cd-mnr-c-0/02/20
Plot Date 00/00/00

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COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

ARCH DEMO FLR PLAN-BLDG 414

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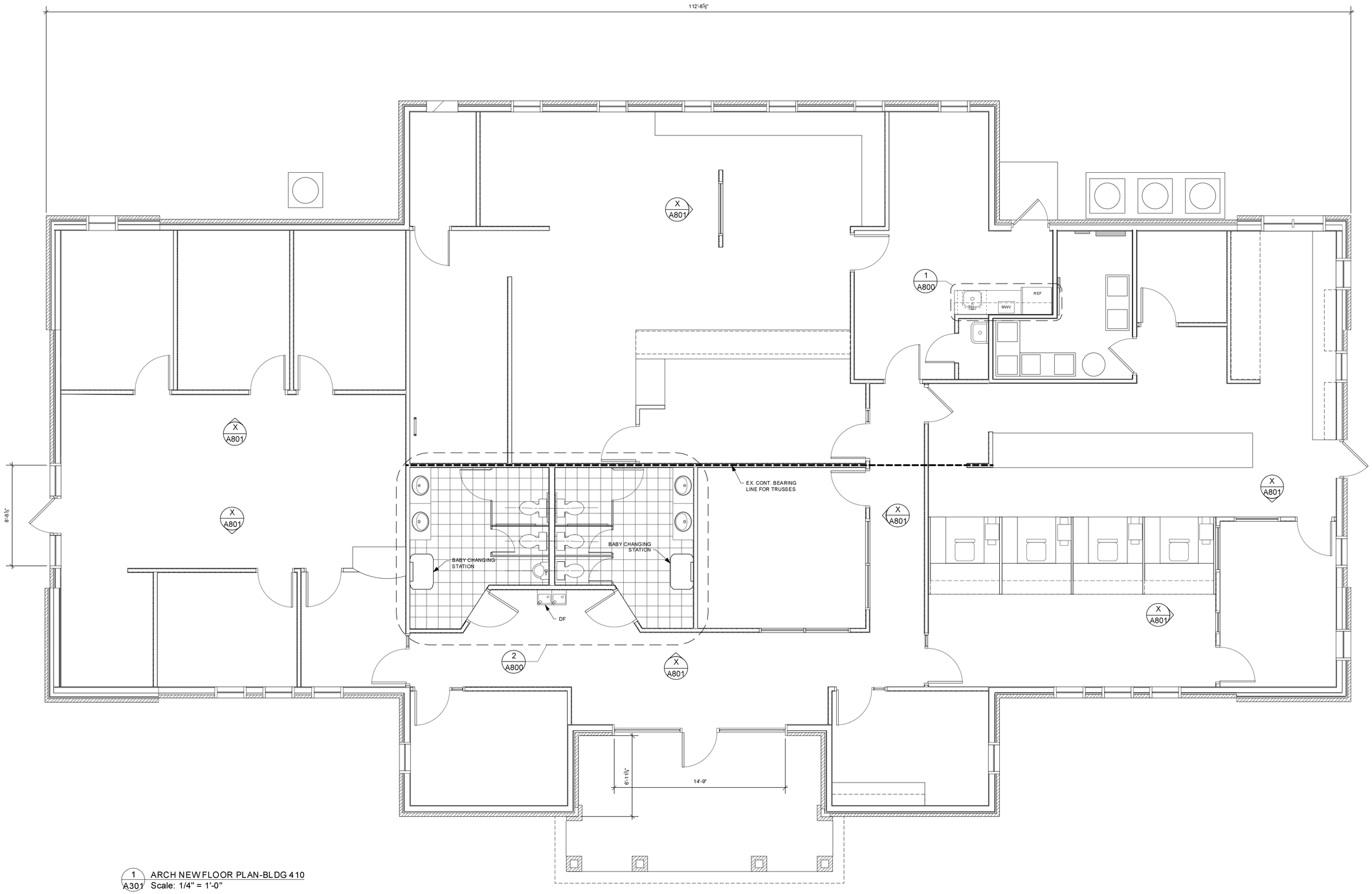
of



1 A301 ARCH NEW FLOOR PLAN-BLDG 410
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No.	Date	Revision/Notes	Zone	Appr
7	6/3/20	DD Progress		
6	5/18/20	MEP updates		
5	5/15/20	Elev updates		
4	5/13/20	Dept Meetings		
3	5/12/20	Final SD		
2	4/24/20	Madison Only Review		
1	2/28/20	deliverable to client		

No.	Date	Revision
1	05/20	Revision
2	19/29	Drawing Date
3	19/29-ad-man-cz-09/23/	
4	0/00/00	

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MADISON, VA 22727

ARCH NEW FLR PLAN-BLDG 410

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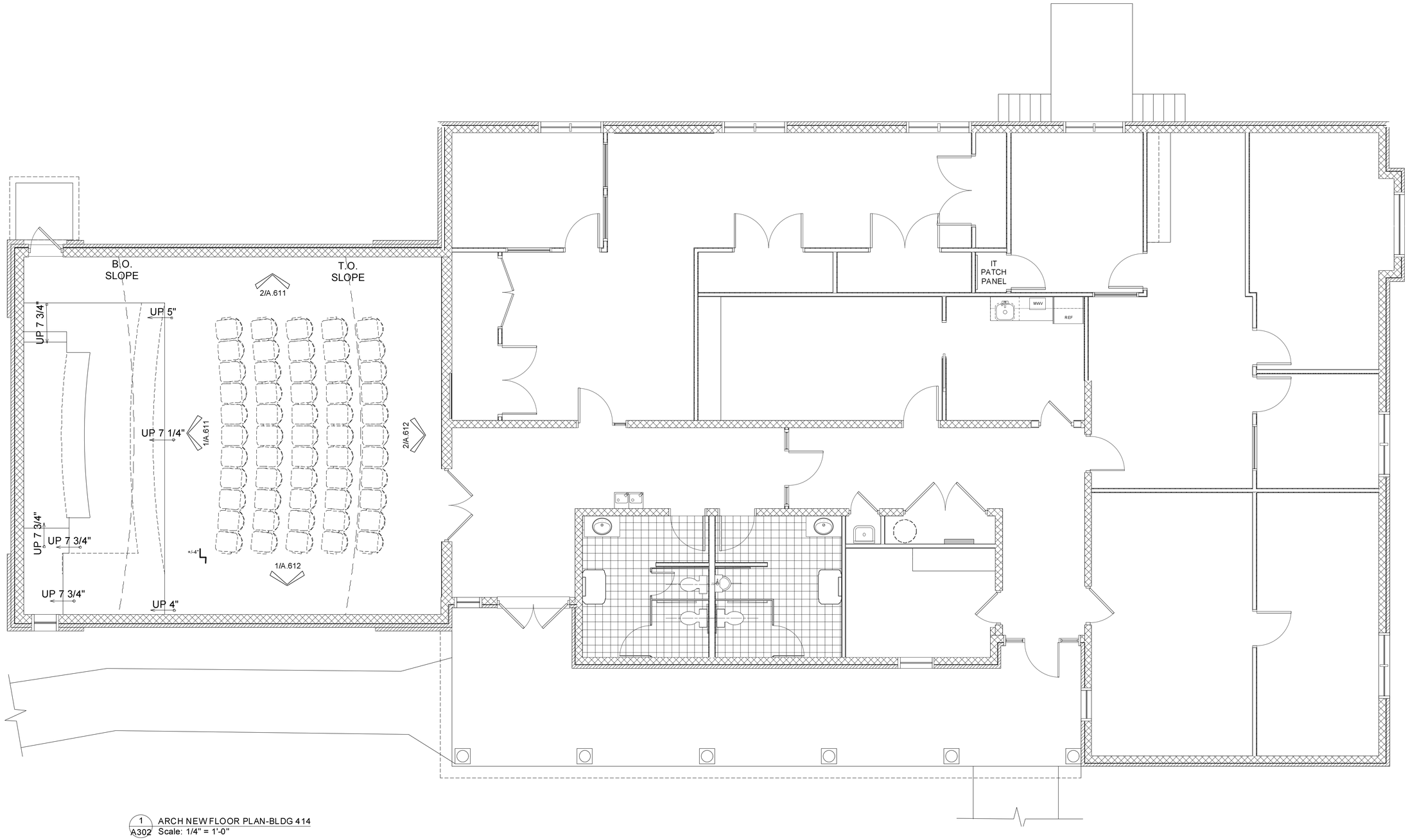
of



1 A302 ARCH NEW FLOOR PLAN-BLDG 414
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No.	Date	Revision/Notes	Zone	Appr

No.	Date	Issue/Notes
7	6/3/20	DD Progress
6	5/18/20	MEP underlays
5	5/15/20	Duct work SD revisions
4	5/13/20	Final SD
3	5/12/20	Madison Only Review
2	4/24/20	deliverable to client
1	2/28/20	

Date	05/20
Reason	Reason
Drawn by	1975
Drawing Code	Drawing Code
Project No.	1975-cd-min-rd-06/02/20
Plot Date	00/00/00

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Project Title: COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title: ARCH NEW FLR PLAN-BLDG 414

Sheet Scale

Drawing No.: A302

of

ACOUSTICAL DETAILS

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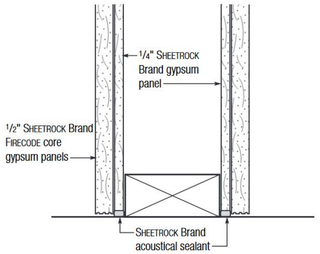
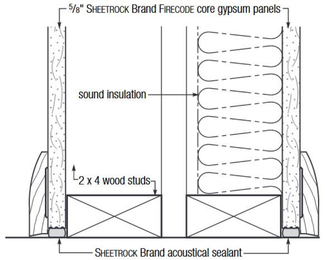
Sound isolating partition



Sound isolating partition — chase wall



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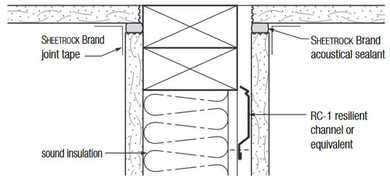

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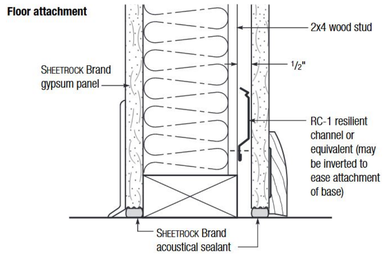
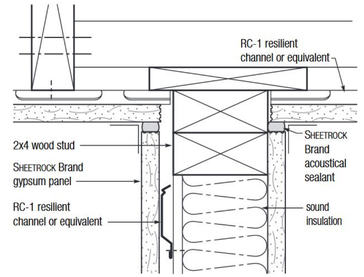
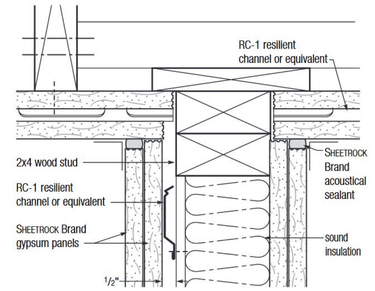


Single-layer panels with RC-1 Channel

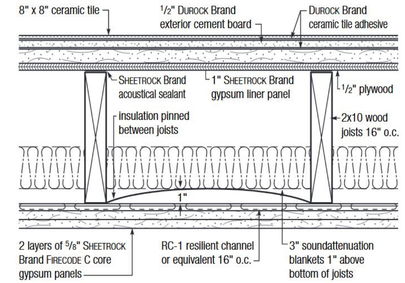


Double-layer panels with RC-1 Channel

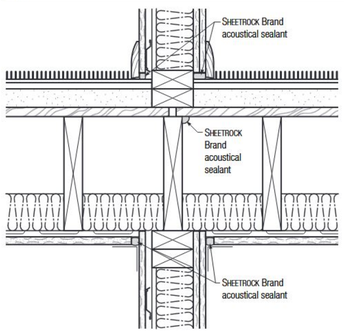


Ceramic tile

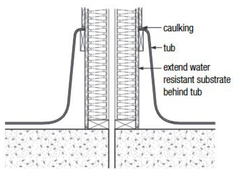
UL Design L541



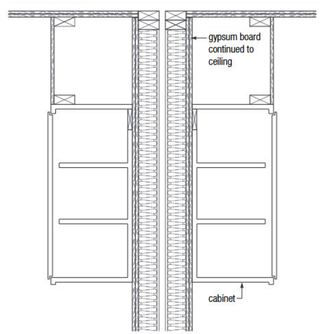
Joists



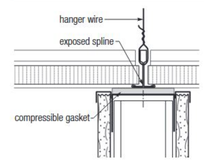
Adjacent Bathrooms



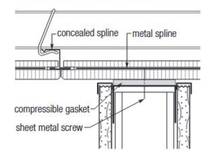
Adjacent Kitchens



Acoustical Panel – Exposed Grid

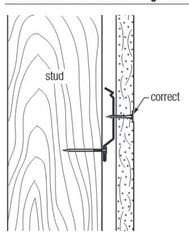


Acoustical Panel – Concealed Grid

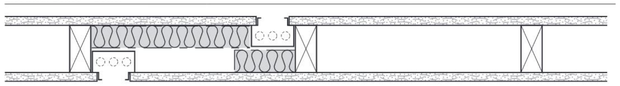


FLANKING PATH DETAILS - INTERRUPTING FLANKING PATHS

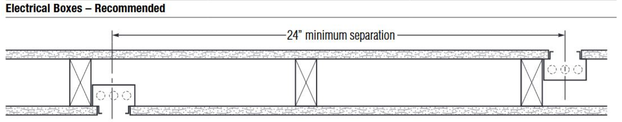
Resilient Channel Wall Framing – Recommended



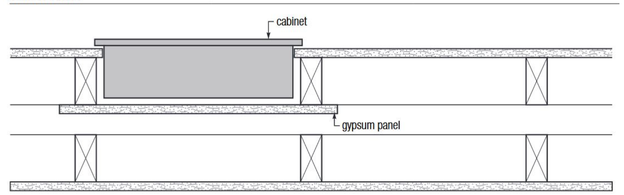
Electrical Boxes – Better



Electrical Boxes – Recommended



Cabinet Cutout



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No.	Date	Revision/Notes	Zone	Appr
1	6/3/20	DD Progress		

Date	02/20/20
Drawn by	Rawson
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ACOUSTICAL DETAILS

Sheet Scale

A741

of

THERMAL ENVELOPE – AIR LEAKAGE

1. PER 2015 NYSECC COMMERCIAL ENERGY EFFICIENCY, COMMERCIAL LEVELS OF THE WEST PART SHALL COMPLY WITH THE COMMERCIAL SECTIONS BELOW. RESIDENTIAL LEVELS SHALL COMPLY WITH THE RESIDENTIAL SECTIONS BELOW. EAST PART SHALL COMPLY WITH THE COMMERCIAL SECTIONS BELOW.
2. CONTRACTOR SHALL PROVIDE A THERMAL ENVELOPE OF BUILDINGS COMPLYING WITH [IECC SECTIONS C402.4.1 THROUGH C402.4.8] [NY ECC SECTIONS C402.5.1 THROUGH 402.5.8].
3. A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE.
   A. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT COMPRISE THE THERMAL ENVELOPE OF THE BUILDING AND ACROSS ALL JOINTS AND ASSEMBLIES.
   B. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. JOINTS AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION.
   C. PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEALS ASSOCIATED WITH PENETRATIONS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL. SEALING MATERIALS SHALL BE APPROPRIATE TO THE CONSTRUCTION MATERIALS BEING SEALED AND SHALL BE SECURELY INSTALLED AROUND THE PENETRATION SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR THE PENETRATIONS' ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT AND MECHANICAL VENTILATION. SEALING OF CONCEALED FIRE SPRINKLERS, WHERE REQUIRED, SHALL BE IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.
   D. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH IECC SECTION C402.5.8, OR EQUIVQLENT. WHERE SIMILAR OBJECTS ARE INSTALLED THAT PENETRATE THE AIR BARRIER, PROVISIONS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER.
4. PROVIDE MATERIALS AS SPECIFIED IN BUILDING SECTIONS, DETAILS, AND [IECC C402.4.1.2.1][NYECC C402.5.1.2.1] FOR A CONTINUOUS AIR BARRIER. SUCH MATERIALS SHALL HAVE AN AIR PERMEABILITY NOT GREATER THAN 0.004 cfm/ft² (0.02 L/s • m²) UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCH WATER GAUGE (75 Pa) WHEN TESTED IN ACCORDANCE WITH ASTM E 2178.
5. PROVIDE ASSEMBLIES OF MATERIALS AND COMPONENTS AS SPECIFIED IN BUILDING SECTIONS, DETAILS, AND [IECC C402.4.1.2.2][NYECC C402.5.1.2.2] FOR A CONTINUOUS AIR BARRIER. SUCH ASSEMBLIES OF MATERIALS AND COMPONENTS SHALL HAVE AN AVERAGE AIR LEAKAGE NOT GREATER THAN 0.04 cfm/ft2 (0.2 L/s • m2) UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCH OF WATER GAUGE (w.g.)(75 Pa) WHEN TESTED IN ACCORDANCE WITH ASTM E 2357, ASTM E 1677 OR ASTM E 283 SHALL COMPLY WITH THIS SECTION.
6. AIR LEAKAGE OF FENESTRATION ASSEMBLIES SHALL MEET THE PROVISIONS OF TABLE C402.5.2. TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REFERENCE TEST STANDARD IN TABLE C402.5.2 BY AN ACCREDITED, INDEPENDENT TESTING LABORATORY AND **LABELED BY THE MANUFACTURER**.

TABLE C402.5.2

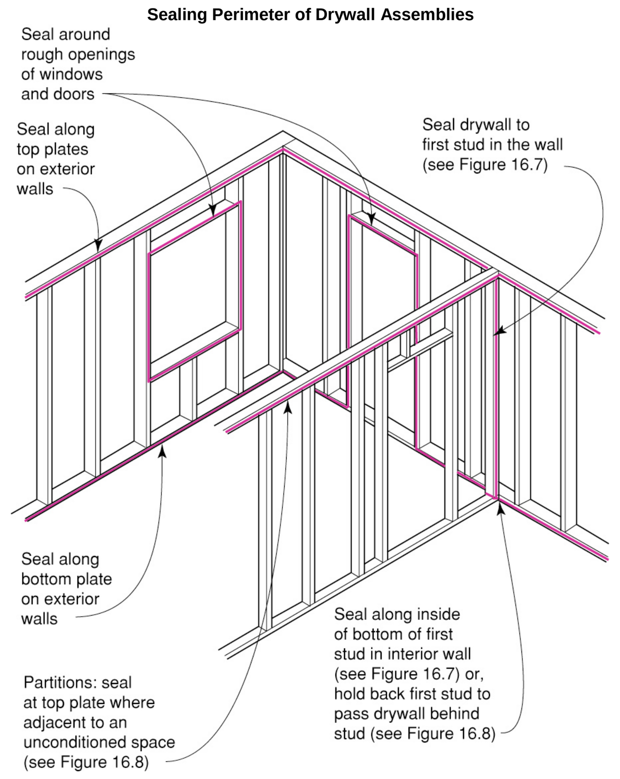
MAXIMUM AIR LEAKAGE RATE FOR FENESTRATION ASSEMBLIESASSEMBLIES

FENESTRATION ASSEMBLY	MAXIMUM RATE (CFM/FT²)	TEST PROCEDURE
WINDOWS	0.20 ᵃ	AAMA/WDMA/CSA 101/I.S.2/A440 OR NFRC 400
SLIDING DOORS	0.20 ᵃ	
SWINGING DOORS	0.20 ᵃ	
SKYLIGHTS – WITH CONDENSATION WEEPAGE OPENINGS	0.30	
SKYLIGHTS – ALL OTHER	0.20 ᵃ	
CURTAIN WALLS	0.06	NFRC 400 OR ASTM E 283 AT 1.57 PSF (75 PA)
STOREFRONT GLAZING	0.06	
COMMERCIAL GLAZED SWINGING ENTRANCE DOORS	1.00	
REVOLVING DOORS	1.00	
GARAGE DOORS	0.40	ANSI/DASMA 105, NFRC 400, OR ASTM E 283 AT 1.57 PSF (75 PA)
ROLLING DOORS	1.00	
HIGH-SPEED DOORS	1.30	

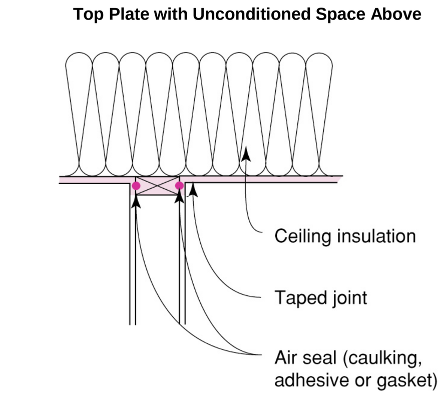
FOR SI: 1 CUBIC FOOT PER MINUTE = 0.47 L/S, 1 SQUARE FOOT = 0.093 M².
a. THE MAXIMUM RATE FOR WINDOWS, SLIDING AND SWINGING DOORS, AND SKYLIGHTS IS PERMITTED TO BE 0.3 CFM PER SQUARE FOOT OF FENESTRATION OR DOOR AREA WHEN TESTED IN ACCORDANCE WITH AAMA/WDMA/CSA101/I.S.2/A440 AT 6.24 PSF (300 PA).

7. DOORS AND ACCESS OPENINGS FROM CONDITIONED SPACE TO SHAFTS, CHUTES, STAIRWAYS AND ELEVATOR LOBBIES NOT WITHIN THE SCOPE OF THE FENESTRATION ASSEMBLIES COVERED BY [IECC C402.4.3] [NYECC C402.5.2] SHALL BE GASKETED, WEATHERSTRIPPED OR SEALED.
   EXCEPTIONS:
   A. DOOR OPENINGS REQUIRED TO COMPLY WITH SECTION 716 OR 716.5 OF IBC.
   B. DOORS AND DOOR OPENINGS REQUIRED TO COMPLY WITH UL 1784 BY IBC.
8. STAIRWAY ENCLOSURES, ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE PROVIDED WITH DAMPERS IN ACCORDANCE WITH [IECC C402.4.5.1 AND C402.4.5.2] [NYECC C403.2.4.3].
9. BUILDING ENTRANCES SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE, WITH ALL DOORS OPENING INTO AND OUT OF THE VESTIBULE EQUIPPED WITH SELF-CLOSING DEVICES. VESTIBULES SHALL BE DESIGNED SO THAT IN PASSING THROUGH THE VESTIBULE IT IS NOT NECESSARY FOR THE INTERIOR AND EXTERIOR DOORS TO OPEN AT THE SAME TIME.
10. TYPICAL DETAILS MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. DRYWALL ASSEMBLY PERIMETER. GPDW IS A SUITABLE AIR BARRIER MATERIAL. TAPE DRYWALL SEAMS. CREATE AIR BARRIER CONTINUITY AT THE PERIMETER OF DRYWALL ASSEMBLIES, AT ALL PENETRATIONS THROUGH THE DRYWALL, AND IN AREAS OF THE ENCLOSURE WITHOUT INTERIOR DRYWALL. SEAL EDGES OF DRYWALL TO SOLID FRAMING MATERIALS. THIS REQUIRES A CONTINUOUS BEAD OF SEALANT ALONG:
      (1) ALL EXTERIOR WALL BOTTOM AND TOP PLATES;
      (2) ALL TOP PLATES AT INSULATED CEILINGS;
      (3) ROUGH OPENING PERIMETERS, AND
      (4) BOTH SIDES OF THE FIRST INTERIOR STUD OF PARTITION WALLS.

Sealing Perimeter of Drywall Assemblies



Top Plate with Unconditioned Space Above



- PENETRATIONS THROUGH TOP PLATE MUST ALSO BE SEALED

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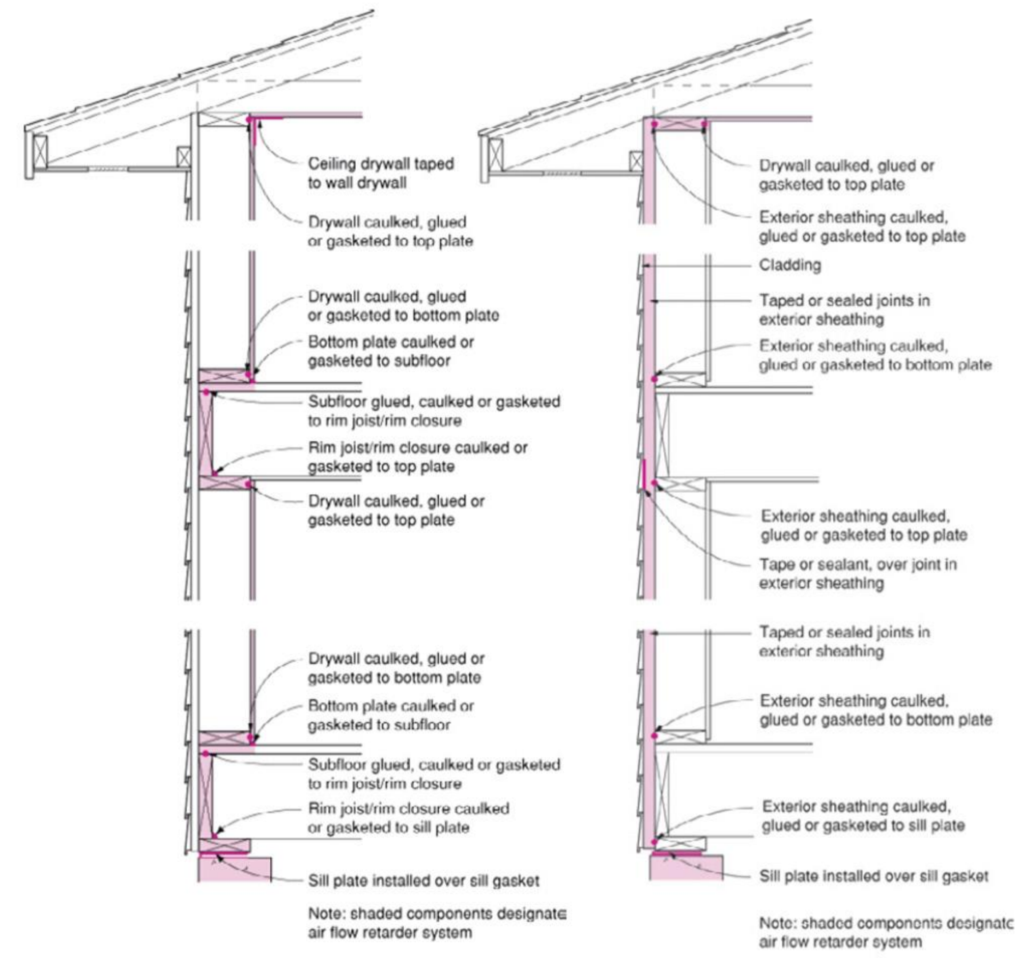
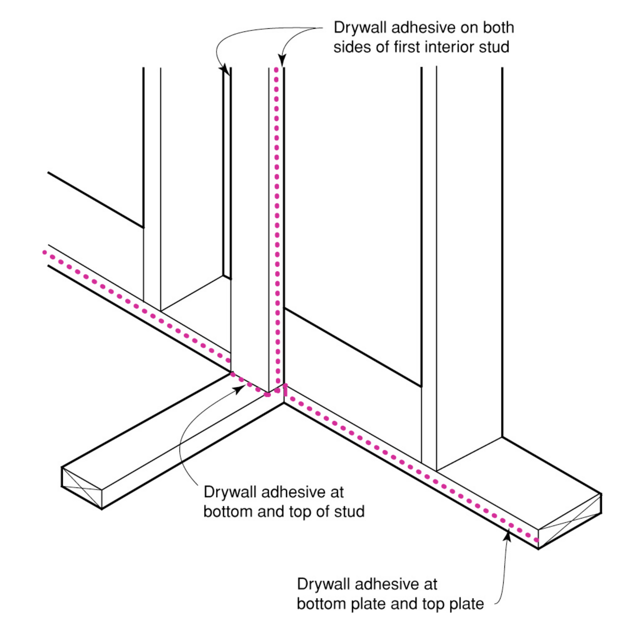
Airtight Drywall Approach – Interior Air Barrier Using Drywall and Framing



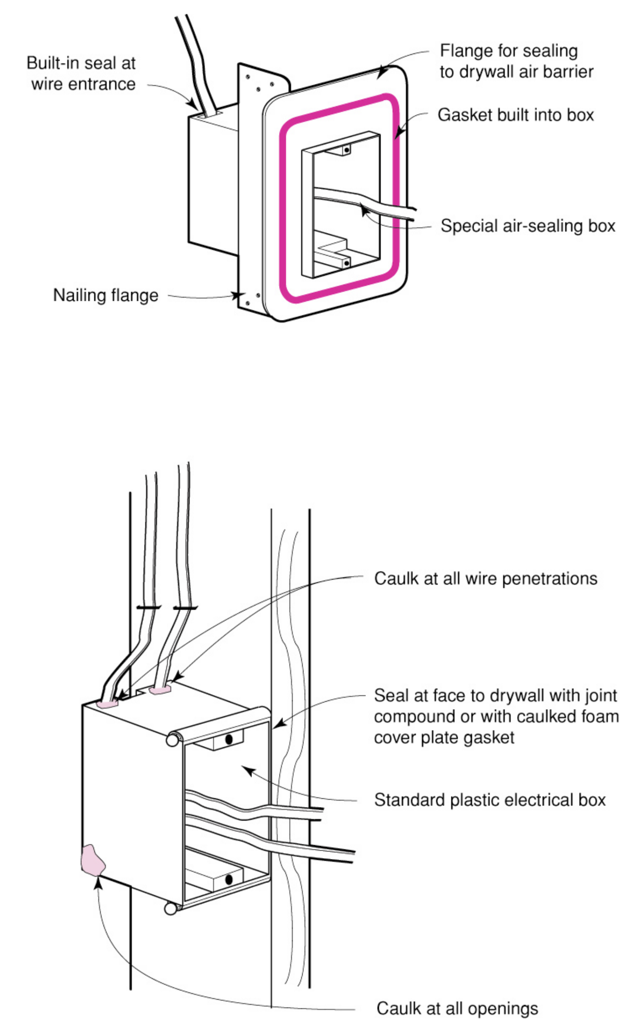
Air Sealing at Partition



- ADHESIVE AT BOTTOM AND TOP OF PARTITION STUD ALLOWS AIR BARRIER TO TRANSITION UNINTERRUPTED TO OTHER SIDE OF PARTITION
- PENETRATIONS THROUGH FIRST PARTITION STUD MUST ALSO BE SEALED

B. PENETRATIONS OF DRYWALL ASSEMBLIES. TYPICAL PENETRATIONS IN EXTERIOR WALL AND CEILING DRYWALL ASSEMBLIES INCLUDE ELECTRIC PENETRATIONS – ELECTRIC BOXES AND RECESSED FIXTURES. CAULK OR SEAL ALL OPENINGS IN ELECTRIC BOXES AND RECESSED FIXTURES (INCLUDING AROUND WIRE PENETRATIONS) AND SEAL THE FACE OF THE BOX TO THE DRYWALL. SPECIALLY DESIGNED AIRTIGHT ELECTRIC BOXES WITH FLEXIBLE BOOT SEALS AT WIRE PENETRATIONS AND A GASKETED FLANGE AT THE FACE CAN ALSO PROVIDE AIR BARRIER CONTINUITY.

Electric Box Penetrations



C. RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINARIES SHALL BE IC-RATED, AND **LABELED** AS HAVING AN AIR LEAKAGE RATE OF NOT MORE 2.0 CFM (0.944 L/S) WHEN TESTED IN ACCORDANCE WITH ASTM E 283 AT A 1.57 PSF (75 PA) PRESSURE DIFFERENTIAL. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

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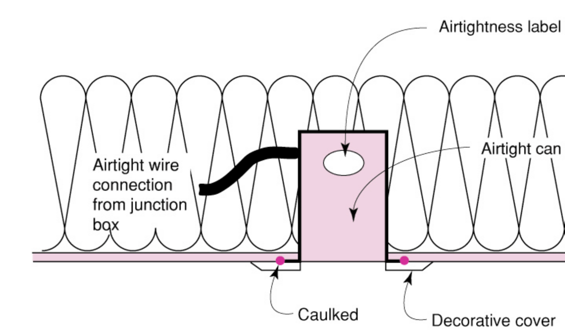
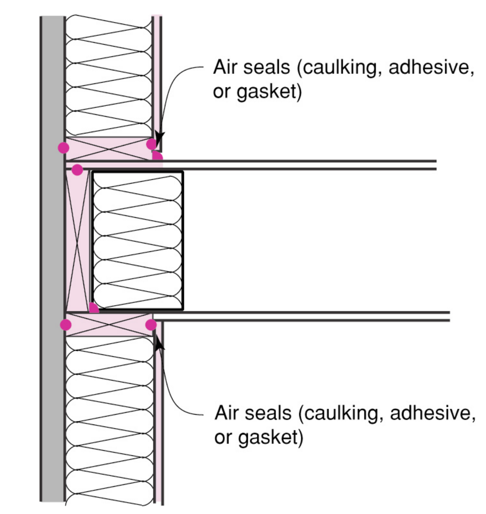
Recessed Fixture in Insulated Ceiling



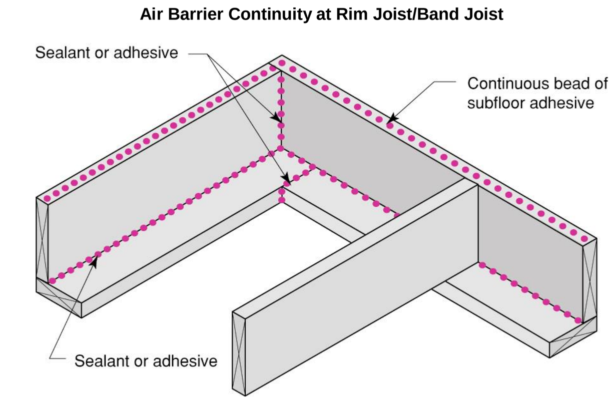
D. STRUCTURAL FRAMING AIR BARRIER TRANSITIONS. DRYWALL CANNOT PROVIDE AN AIR BARRIER WHERE IT IS ABSENT. THE DIAGRAMS BELOW SHOW HOW THE AIR BARRIER CONTINUITY IS MAINTAINED THROUGH THE FRAMING AT RIM JOIST/BAND JOIST AREAS. THESE MEASURES FORM A NECESSARY COMPLEMENT TO DRYWALL SEALING IN THE AIRTIGHT DRYWALL APPROACH.

Intersection of Floor Joists and Exterior Wall



- DRYWALL SEALED TO TOP AND BOTTOM PLATES
- BOTTOM PLATE SEALED TO SUBFLOOR
- SUBFLOOR SEALED TO RIM CLOSURE BOARD
- RIM CLOSURE BOARD SEALED TO TOP PLATE

Air Barrier Continuity at Rim Joist/Band Joist



- CONTINUOUS FILLET BEAD APPLIED AT BOTTOM OF RIM CLOSURE BOARD
- CONTINUOUS BEAD OF ADHESIVE APPLIED TO TOP OF RIM CLOSURE BOARD
- SEALANT APPLIED AT ALL BUTT JOINTS IN RIM CLOSURE BOARD AND SILL PLATE/TOP PLATE
- SPRAY FOAM MAY ALSO BE USED TO SEAL BETWEEN THE SILL/ TOP PLATE, RIM/BAND JOIST, AND FLOOR DECK. NOTE THAT JOINTS IN THE SILL/TOP PLATE MAY NOT BE SEALED BY THE FOAM APPLICATION.

11. CONTRACTOR SHALL PROVIDE SCHEDULING, SEQUENCING OF CONSTRUCTION, AND COORDINATION OF TRADES TO ENSURE CONTINUITY OF THE AIR BARRIER BETWEEN MATERIALS, JOINTS AND ASSEMBLIES, AND TO ASSIGN RESPONSIBILITY FOR SEALING VARIOUS AIR BARRIER PENETRATIONS.

BUILDING COMPONENTS TO BE SEALED AND WHO MIGHT BE RESPONSIBLE FOR SEALING THOSE COMPONENTS

BUILDING COMPONENTS	CONTRACTOR/TRADE
CEILING/ATTIC, KNEEWALLS, ATTIC ACCESS, RECESSED LIGHTING, WALLS, FLOORS, GARAGE SEPARATION, ELECTRICAL AND SERVICE PENETRATIONS IN CEILING, FLOORS, AND WALLS	• INSULATION/AIR SEALING INSTALLERS • GYPSUM BOARD CONTRACTORS • FOUNDATION CONTRACTORS • ELECTRICIANS • ROOFERS • FRAMERS • GENERAL CONTRACTORS
SERVICE WATER PIPING, PENETRATIONS FOR WATER SUPPLY AND DEMAND	• PLUMBERS • ELECTRICIANS
RIM JOISTS, SILL PLATES, WINDOWS, SKYLIGHTS, DOORS, PORCH ROOF, SHOWER/TUB ON EXTERIOR WALL, ELECTRICAL BOX ON EXTERIOR WALL, FIREPLACE	• FRAMERS • ROOFERS • PLUMBERS • ELECTRICIANS • INSULATION/AIR SEALING INSTALLERS • WINDOW AND DOOR INSTALLERS • GENERAL CONTRACTORS
DUCTS, PIPING, SHAFTS, PENETRATIONS, REGISTER BOOTS	• HVAC INSTALLERS
ALL OF THE ABOVE	• INSPECTORS • GENERAL CONTRACTORS

12. CONTRACTOR SHALL DEVELOP, INSTITUTE AND CONDUCT QUALITY ASSURANCE PROCEDURES TO VERIFY THAT THE CONTINUOUS AIR BARRIER IS CONSTRUCTED WITHOUT HOLES OR GAPS. PROCEDURES ARE TO BE REVIEWED BY ARCHITECT.
13. CONTRACTOR SHALL SCHEDULE, AND FACILITATE INSPECTIONS AND TESTING AS REQUIRED TO VERIFY CODE COMPLIANCE OF AIR BARRIER.
14. AN INDEPENDENT AGENCY SHALL BE ENGAGED BY THE OWNER TO PERFORM INSPECTIONS, SAMPLING, AND TESTING OF AIR BARRIER MATERIALS, COMPONENTS AND ASSEMBLIES AS REQUIRED. THE AGENCY SHALL PROVIDE QUALIFIED PERSONNEL TO PERFORM REQUIRED INSPECTIONS AND TESTS.
   A. THE AGENCY SHALL NOTIFY ARCHITECT AND CONTRACTOR PROMPTLY OF IRREGULARITIES OR DEFICIENCIES OBSERVED DURING PERFORMANCE OF ITS SERVICES.
   B. THE AGENCY IS NOT AUTHORIZED TO RELEASE, REVOKE, ALTER, OR ENLARGE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR APPROVE OR ACCEPT ANY PORTION OF THE WORK.
   C. THE AGENCY SHALL NOT PERFORM ANY DUTIES OF THE CONTRACTOR.
15. CONTRACTOR SHALL COORDINATE THE SEQUENCE OF ACTIVITIES TO ACCOMMODATE INSPECTIONS, SAMPLING, AND TESTING WITH A MINIMUM OF DELAY. COORDINATE ACTIVITIES TO AVOID THE NECESSITY OF REMOVING AND REPLACING CONSTRUCTION TO ACCOMMODATE INSPECTIONS AND TESTS.
16. SUBMITTALS: SEE SUBMITTAL AND SHOP DRAWING LOG.
17. UPON COMPLETION OF INSPECTIONS, TESTING, SAMPLING AND SIMILAR SERVICES BY INDEPENDENT AGENCY, CONTRACTOR SHALL REPAIR DAMAGED CONSTRUCTION AND RESTORE SUBSTRATES AND FINISHES. COMPLY WITH CONTRACT DOCUMENT REQUIREMENTS FOR DIVISION 1 SECTION "CUTTING AND PATCHING."
18. CONTRACTOR SHALL PROTECT CONSTRUCTION EXPOSED AND/OR REPAIRED DUE TO QUALITY CONTROL SERVICE ACTIVITIES.
19. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION AGENCY TO PROVIDE REQUIRED INSPECTIONS, TESTING, SAMPLING AND SIMILAR SERVICES AS REQUIRED BY CODE AND LOCAL CODE OFFICIAL DURING INSTALLATION OF THE AIR BARRIER SYSTEM. THE AGENCY WILL PROVIDE AT THE OWNER'S REQUEST, THE FOLLOWING:
   A. DAILY REPORTS OF OBSERVATIONS, WITH COPIES TO THE OWNER, CONTRACTOR AND ARCHITECT;
   B. PROVIDE WRITTEN TEST REPORTS OF ALL TESTS PERFORMED WITH COPIES TO THE OWNER, CONTRACTOR AND ARCHITECT.
20. PER 2015 NYSECC RESIDENTIAL ENERGY EFFICIENCY / R402.4.1.3 'OPTIONAL TESTING PROCEDURE FOR BUILDINGS WITH TWO OR MORE DWELLING UNITS WITHIN THE *BUILDING THERMAL ENVELOPE',* WHERE TWO OR MORE DWELLING UNITS ARE LOCATED WITHIN THE *BUILDING THERMAL ENVELOPE* OF A *BUILDING*, THE TESTING PROCEDURE SPECIFIED IN SECTION R402.4.1.3 SHALL BE PERMITTED AS AN ALTERNATIVE TO COMPLIANCE WITH SECTION R402.4.1.2. PROVISIONS IN R402.4.1.3.1 MAY BE APPLIED. FOR A *BUILDING* WITH MORE THAN SEVEN DWELLING UNITS, SEE BELOW R402.4.1.3.1 'BUILDINGS WITH MORE THAN SEVEN DWELLING UNITS'.
   A. IN THIS SECTION R402.4.1.3, EACH DWELLING UNIT AND EACH OTHER CONDITIONED OCCUPIED SPACE LOCATED WITHIN THE *BUILDING THERMAL ENVELOPE* OF THE *BUILDING* SHALL BE REFERRED TO AS A "TESTING UNIT," AND THE "ENCLOSURE SURFACE AREA" WITHIN A TESTING UNIT SHALL BE EQUAL TO THE SUM OF THE AREAS OF (I) EACH

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EXTERIOR WALL IN SUCH TESTING UNIT, (II) EACH INTERIOR WALL IN SUCH TESTING UNIT THAT ABUTS OTHER TESTING UNIT(S), (III) EACH CEILING IN SUCH TESTING UNIT THAT ABUTS OTHER TESTING UNIT(S) OR ABUTS UNCONDITIONED SPACE, AND (IV) EACH FLOOR IN SUCH TESTING UNIT THAT ABUTS OTHER TESTING UNIT(S) OR ABUTS UNCONDITIONED SPACE.
   B. EACH TESTING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 0.3 CUBIC FEET PER MINUTE PER SQUARE FOOT OF ENCLOSURE SURFACE AREA WITHIN THE TESTING AREA. TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS), AND SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM E779. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE *BUILDING THERMAL ENVELOPE*. DURING TESTING:
      (1) EXTERIOR WINDOWS AND DOORS, FIREPLACE AND STOVE DOORS SHALL BE CLOSED, BUT NOT SEALED, BEYOND THE INTENDED WEATHER-STRIPPING OR OTHER INFILTRATION CONTROL MEASURES.
      (2) DAMPERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE DAMPERS SHALL BE CLOSED, BUT NOT SEALED BEYOND INTENDED INFILTRATION CONTROL MEASURES.
      (3) INTERIOR DOORS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE OPEN.
      (4) EXTERIOR DOORS FOR CONTINUOUS VENTILATION SYSTEMS AND HEAT RECOVERY VENTILATORS SHALL BE CLOSED AND SEALED.
      (5) EATING AND COOLING SYSTEMS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE TURNED OFF.
      (6) SUPPLY AND RETURN REGISTERS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE FULLY OPEN.
   C. WHERE REQUIRED BY THE *CODE OFFICIAL*, TESTING SHALL BE CONDUCTED BY AN *APPROVED* THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE PREPARED AND SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE *CODE OFFICIAL*. THE WRITTEN REPORT SHALL INCLUDE:
      (1) THE NAME AND PLACE OF BUSINESS OF THE PARTY CONDUCTING THE TEST;
      (2) THE ADDRESS OF THE BUILDING WHICH WAS TESTED;
      (3) THE CONDITIONED FLOOR AREA OF DWELLING, CALCULATED IN ACCORDANCE WITH ANSI Z65- 1996, EXCEPT THAT CONDITIONED FLOOR AREA SHALL INCLUDE AREAS WHERE THE CEILING HEIGHT IS LESS THAN 5 FEET (1524 MM);
      (4) MEASUREMENT OF THE AIR LEAKAGE RATE OF EACH TESTING UNIT;
      (5) THE DATE(S) OF THE TEST;
      (6) A CERTIFICATION BY THE PARTY CONDUCTING THE TEST OF THE ACCURACY OF THE TEST RESULTS; AND
      (7) THE SIGNATURE OF THE PARTY CONDUCTING THE TEST.
21. R402.4.1.3.1 'BUILDINGS WITH MORE THAN SEVEN DWELLING UNITS', WHEN THE OPTIONAL TESTING PROCEDURE AUTHORIZED BY SECTION R402.4.1.3 IS USED FOR A *BUILDING* WITH MORE THAN SEVEN DWELLING UNITS, TESTING EACH TESTING UNIT SHALL NOT BE REQUIRED, AND TESTING OF SAMPLE TESTING UNITS SELECTED IN ACCORDANCE WITH THE PROVISIONS SET FORTH BELOW IN THIS SECTION 402.4.1.3.1 SHALL BE PERMITTED, AS REQUIRED AND/OR AS DIRECTED BY THE BUILDING OFFICIAL OR AHJ.
   A. TESTING UNITS SHALL BE GROUPED INTO SAMPLE SETS OF NOT MORE THAN SEVEN TESTING UNITS AND COMMON ROOMS IN EACH SAMPLE SET. EACH SAMPLE SET SHALL CONTAIN TESTING UNITS THAT ARE REPRESENTATIVE OF ALL DWELLING UNIT TYPES AND ALL OTHER CONDITIONED OCCUPIED SPACES.
   B. IF ALL TESTING UNITS IN THE FIRST SAMPLE SET TESTED ARE VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 0.3 CUBIC FEET PER MINUTE PER SQUARE FOOT OF ENCLOSURE SURFACE AREA WITHIN THE TESTING AREA, REMAINING SAMPLE SETS SHALL BE PERMITTED TO BE TESTED AT THE RATE OF ONE TESTING UNIT PER SAMPLE SET.
   C. IF ANY TESTING UNIT TESTED IN ACCORDANCE WITH PARAGRAPH 2 ABOVE IS NOT VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 0.3 CUBIC FEET PER MINUTE PER SQUARE FOOT OF ENCLOSURE SURFACE AREA WITHIN THE TESTING AREA, TWO ADDITIONAL TESTING UNITS IN THE SAMPLE SET SHALL BE TESTED.
   D. IF ANY TESTING UNIT TESTED IN ACCORDANCE WITH PARAGRAPH 3 ABOVE IS NOT VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 0.3 CUBIC FEET PER MINUTE PER SQUARE FOOT OF ENCLOSURE SURFACE AREA WITHIN THE TESTING AREA, ALL TESTING UNITS IN THE SAMPLE SET SHALL BE TESTED, AND ALL TESTING UNITS IN THE SUBSEQUENT SAMPLE SET, IF ANY, SHALL BE TESTED.
   E. IF ALL TESTING UNITS IN THE SAMPLE SET TESTED IN ACCORDANCE WITH PARAGRAPH 4 ABOVE ARE VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 0.3 CUBIC FEET PER MINUTE PER SQUARE FOOT OF ENCLOSURE SURFACE AREA WITHIN THE TESTING AREA, SUBSEQUENT SAMPLE SETS SHALL BE PERMITTED TO BE TESTED IN ACCORDANCE WITH PARAGRAPH 2 ABOVE, WHERE APPROVED BY THE *CODE OFFICIAL*.
22. R402.4.3 'FENESTRATION AIR LEAKAGE', WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT (1.5 L/S/M²), AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT (2.6 L/S/M²), WHEN TESTED ACCORDING TO NFRC 400 OR AAMA/WDMA/CSA 101/I.S.2/A440 BY AN ACCREDITED, INDEPENDENT LABORATORY AND ***LISTED* AND *LABELED* BY THE MANUFACTURER.**

EXCEPTION: SITE-BUILT WINDOWS, SKYLIGHTS AND DOORS.

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No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
1	6/3/20	DD Progress

Date: 052020
Revision: Revision
Project ID: 19679
Drawing Code: Drawing Code
CAD File Name: 19679-sd-main-rz-060220
Plot Date: 00/00/00
Designed By
Drawn By
Checked By
Reviewed By
Submitted By
Project Manager

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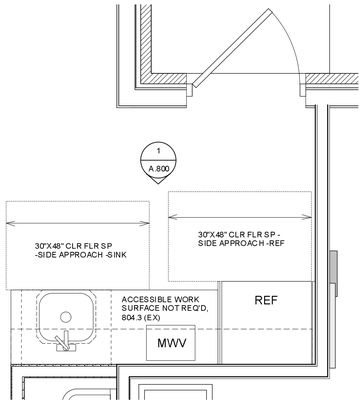
Consultant

Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
ACOUSTICAL DETAILS

Scale: Sheet Scale

Drawing No.
A742
of



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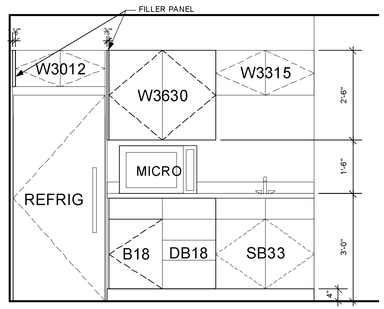

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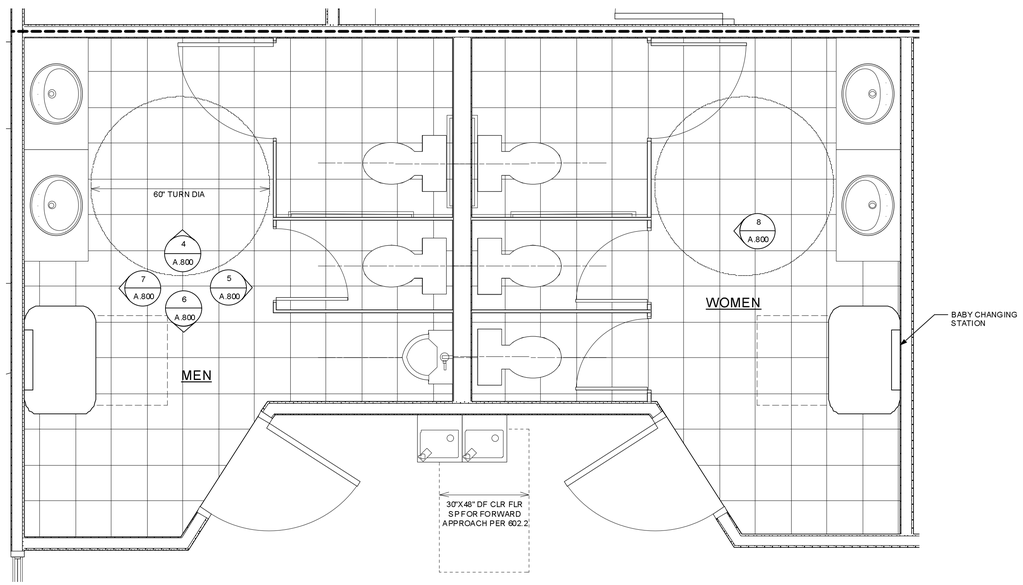

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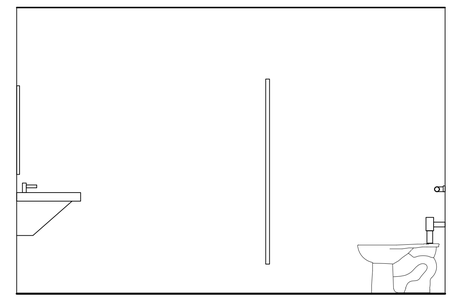

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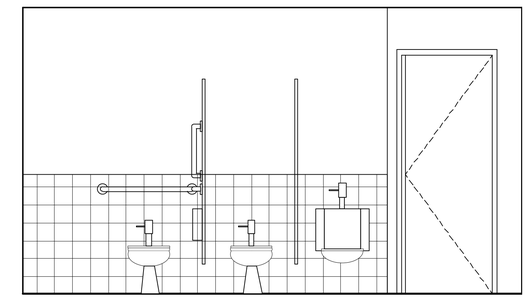

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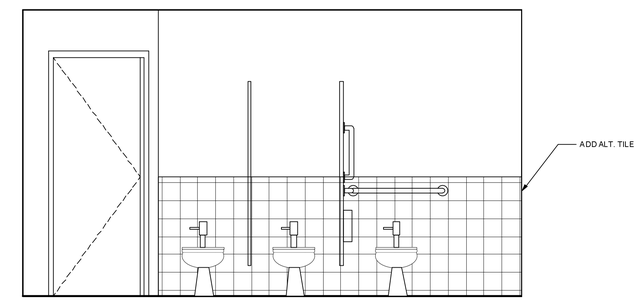

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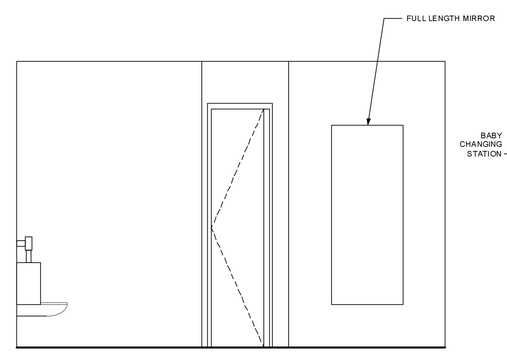

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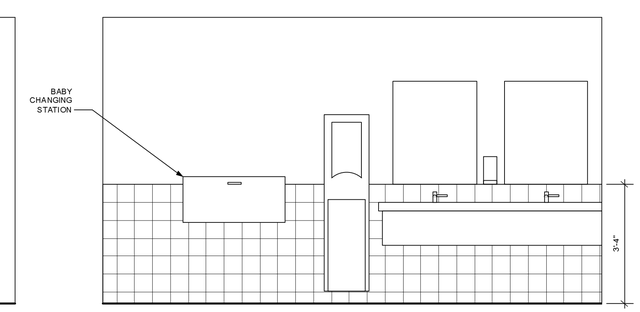

7 A800 RESTROOM ELEVATION-BUILDING 410
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No.	Date	Revision/Notes	Zone	Appr

No.	Date	Issue/Notes
1	6/3/20	DD Progress

Date	02/12/20
Drawn By	Reason
Checked By	19079
Project No.	Drawing Code
Project Manager	19079-sd-min-rc-02/02/20
Author	0/00/00

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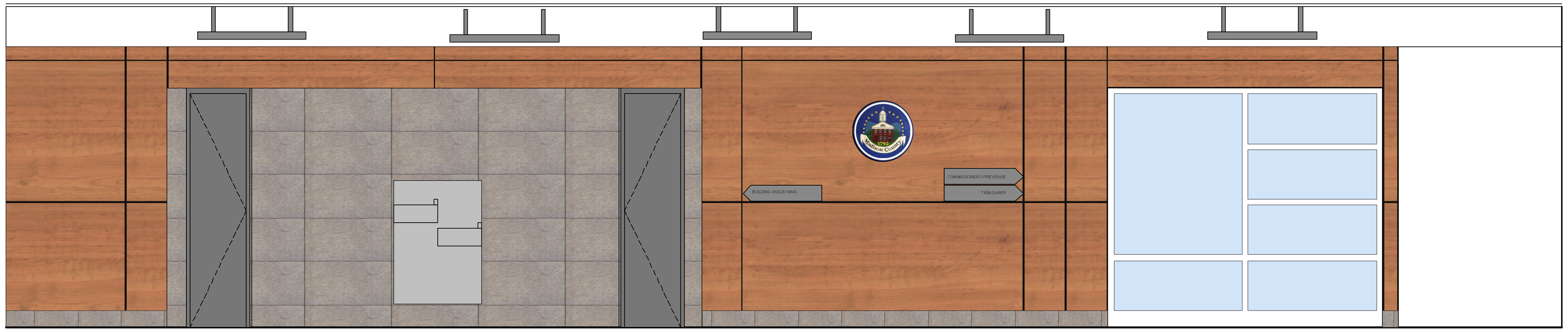
410 NORTH MAIN STREET
MADISON, VA 22727

ENLARGED KTCHN & RESTRM-BLDG 410

Sheet Scale

A800
of



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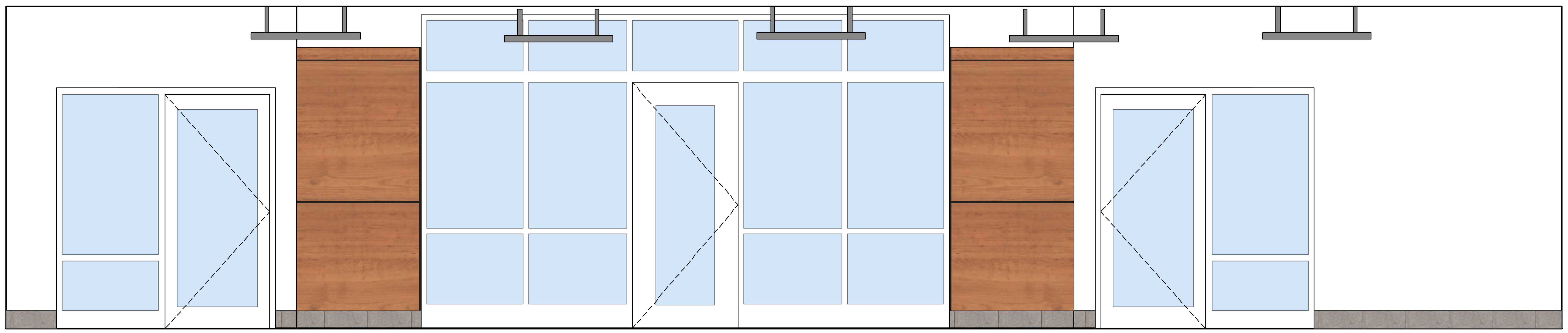

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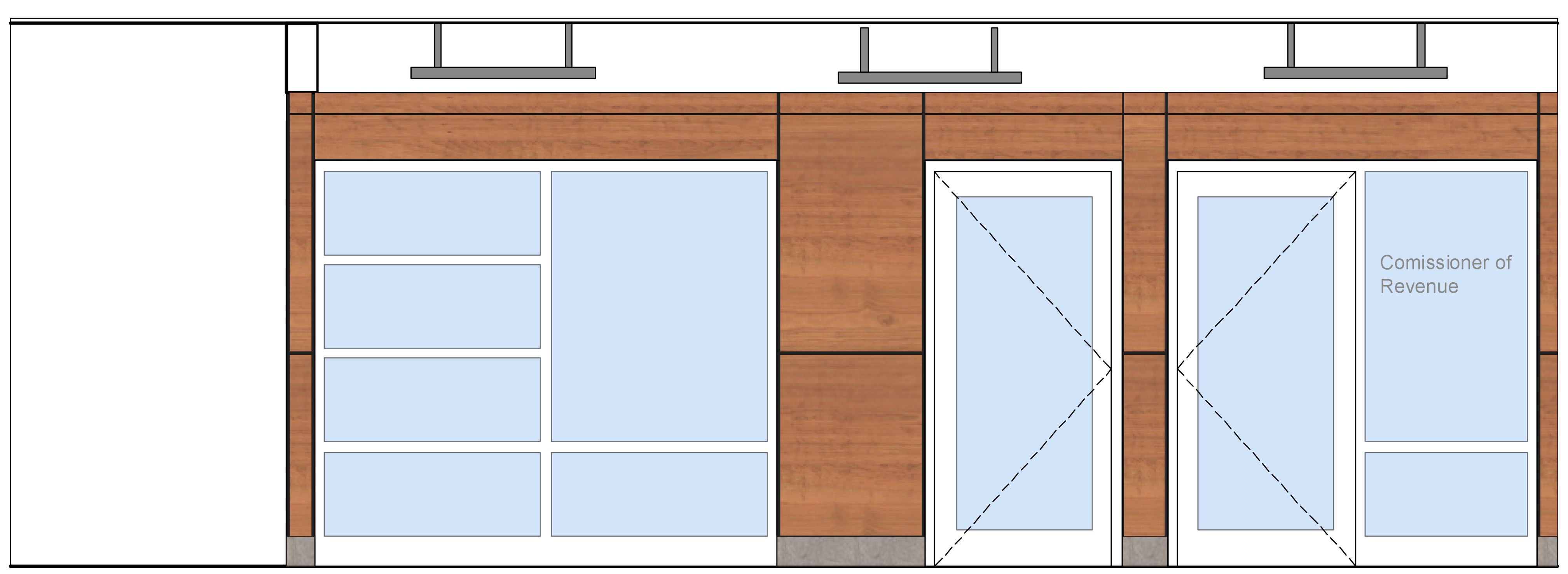

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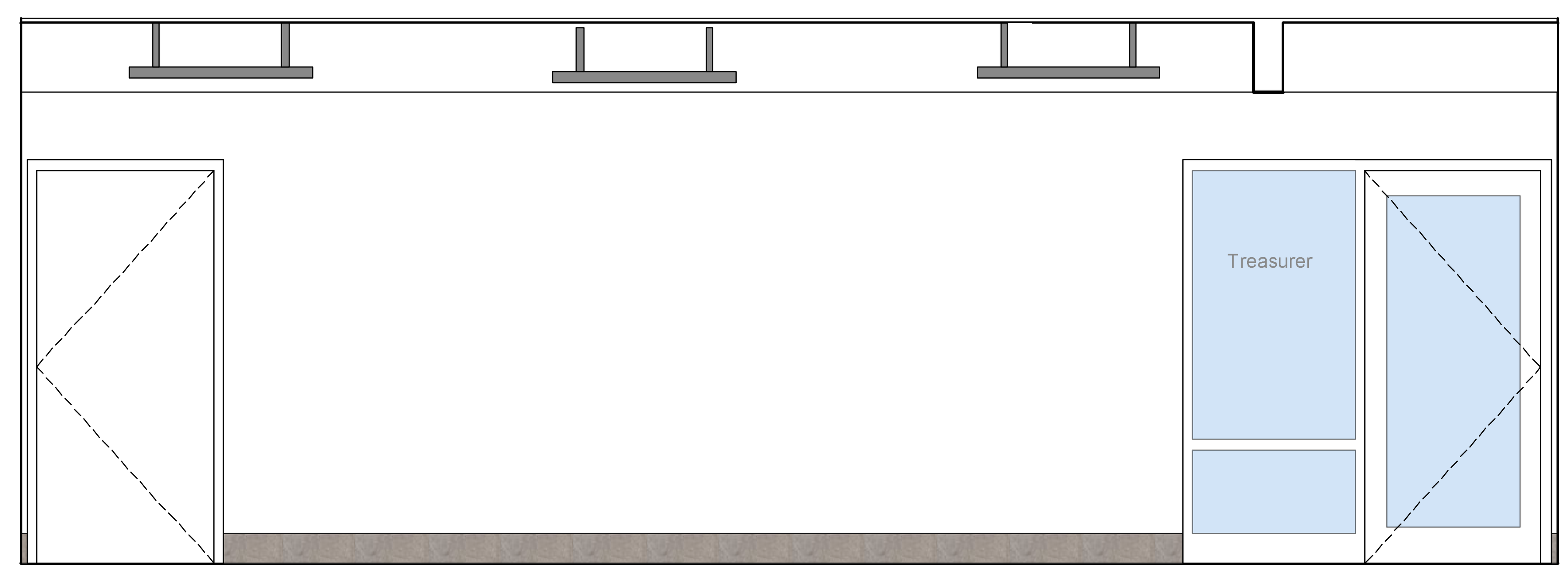

1 A801 INTERIOR ELEVATION-CORRIDOR-BUILDING 410
Scale: 1/2" = 1'-0"

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No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
1	6/3/20	DD Progress

Date	021120
Revision	Revision
Project ID	19679
Drawing Code	Drawing Code
CAD File Name	19679-sd-main-rz-060220
Plot Date	00/00/00
Designed By	
Drawn By	
Checked By	
Reviewed By	
Submitted By	
Project Manager	

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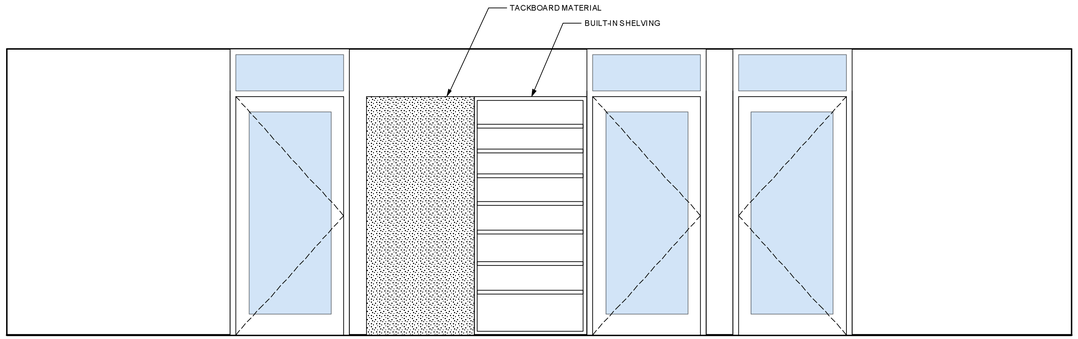
Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
INTERIORS-BLDG 410

Scale
Sheet Scale

Drawing No.
A801
of



1 A802 INTERIOR ELEVATION-OFFICE-BUILDING 410
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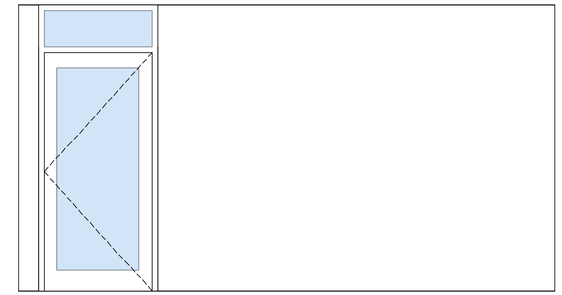

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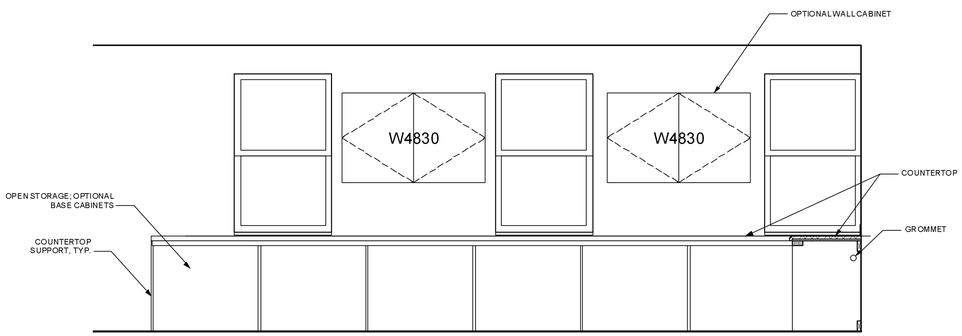

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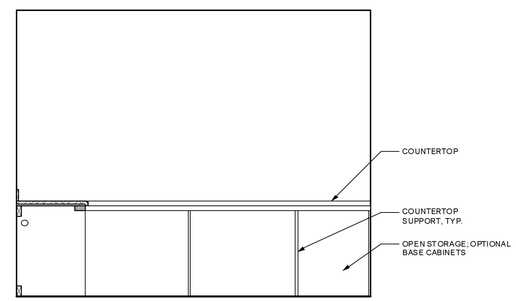

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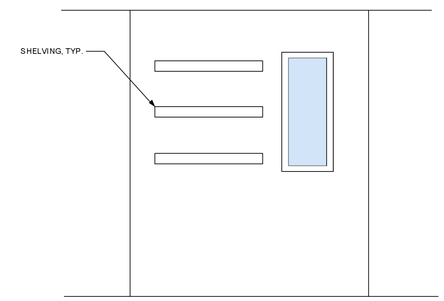

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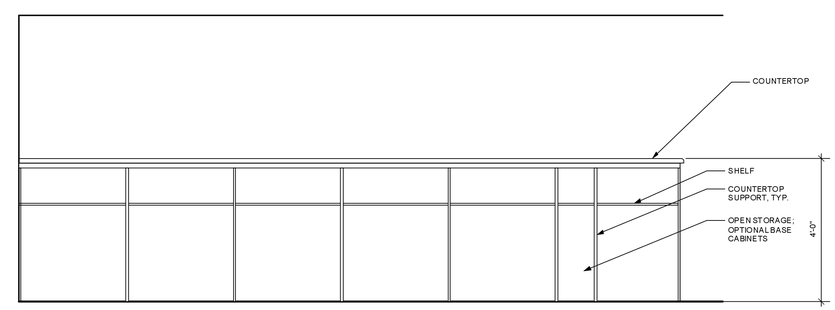

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No.	Date	Revision/Notes	Zone	Appr
1	6/3/20	DD Progress		

Date	02/1/20
Drawn by	Rawson
Checked by	1875
Project No.	Drawing Code
Filename	1875-sd-mpn-a-000720
Plotted for scale	0/00/00

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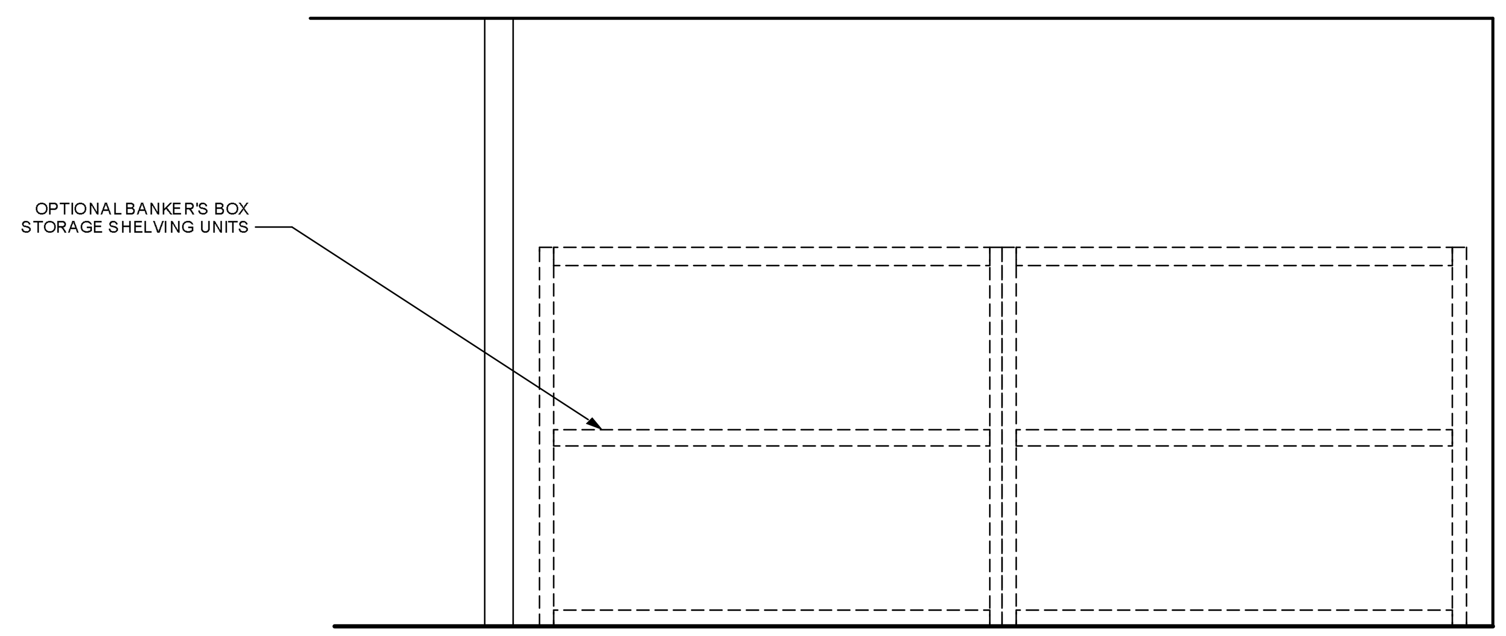
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

INTERIORS-BLDG 410

Sheet Scale

A802

of



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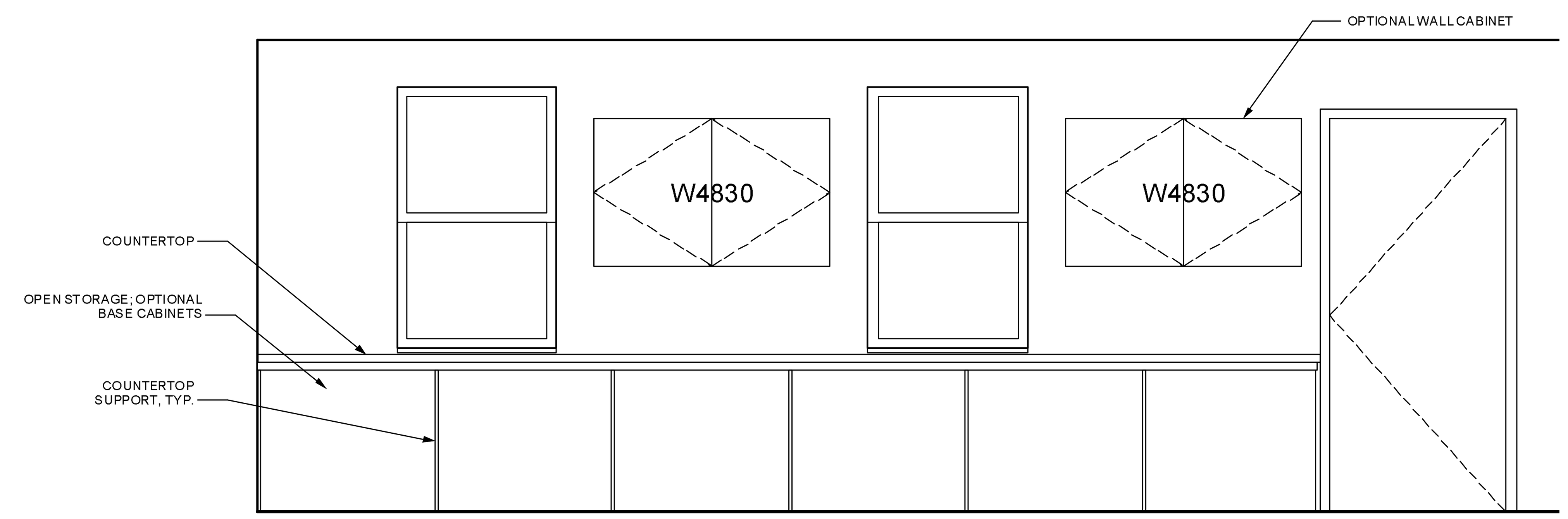

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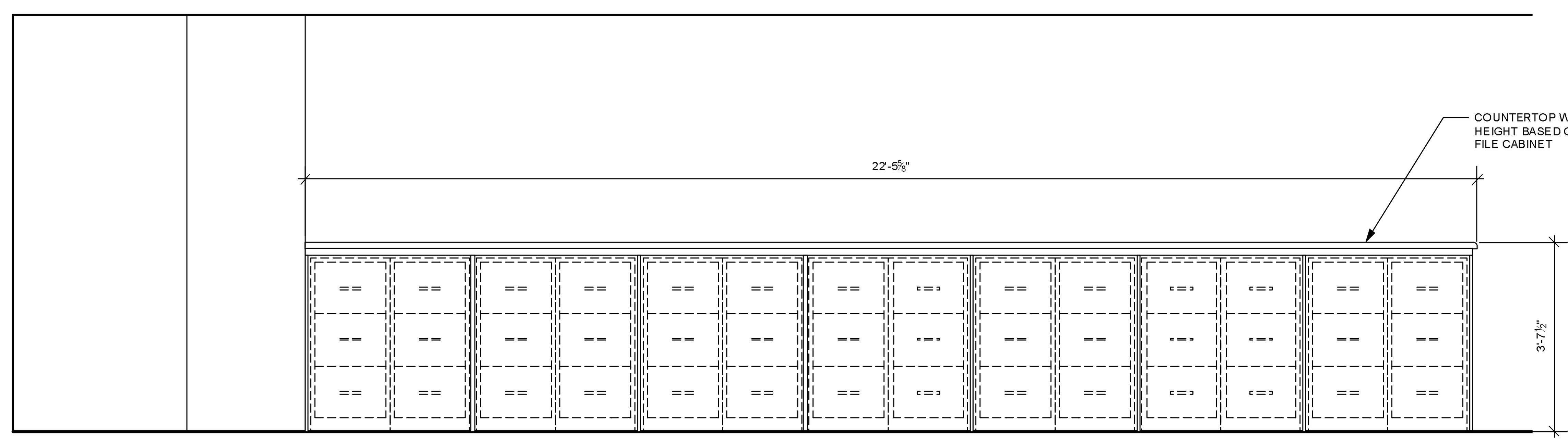

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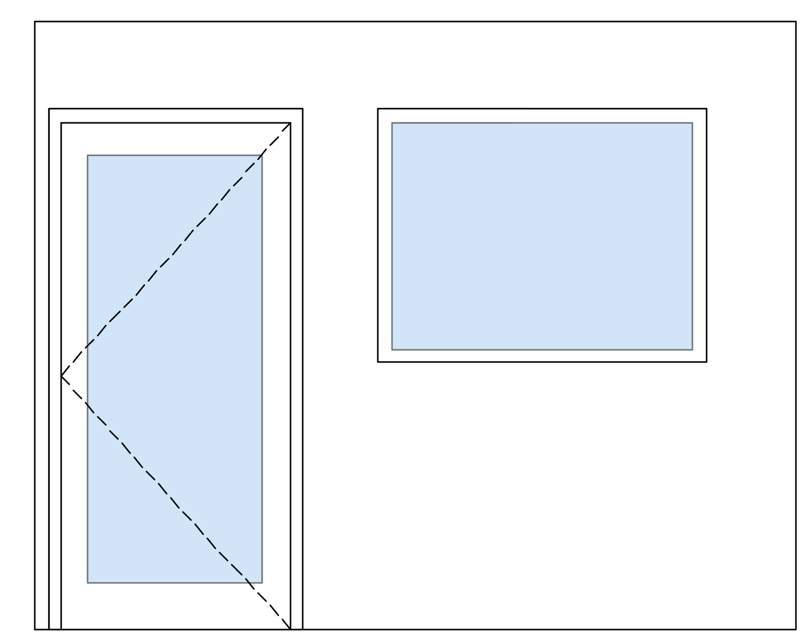

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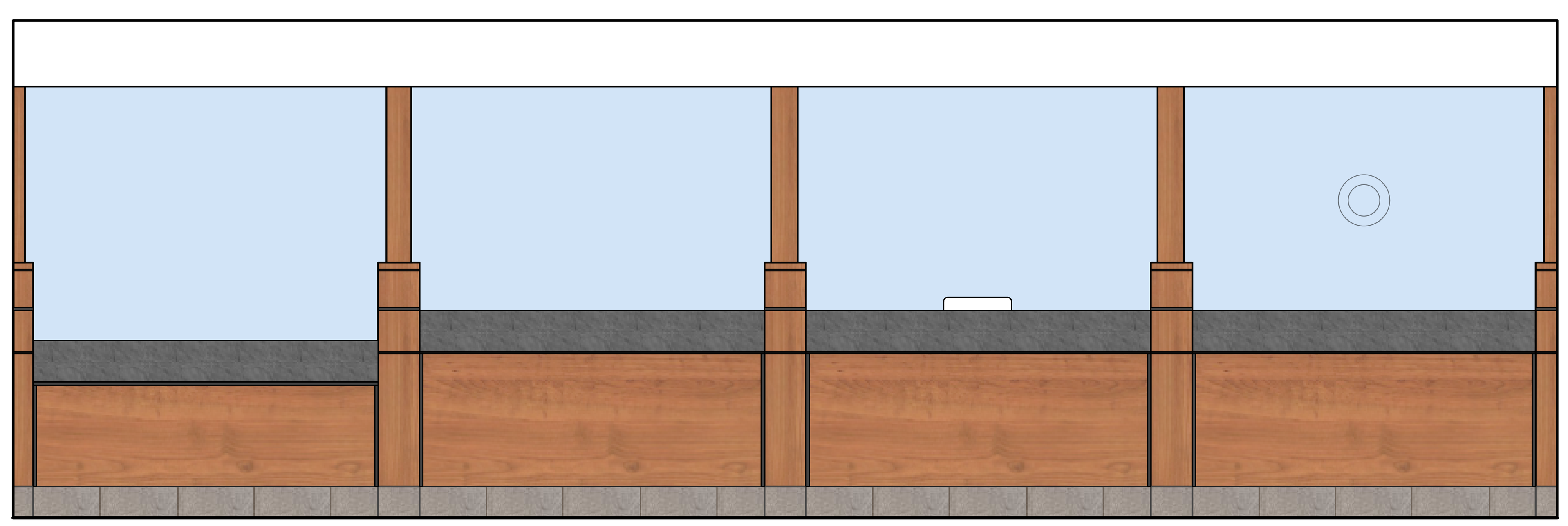

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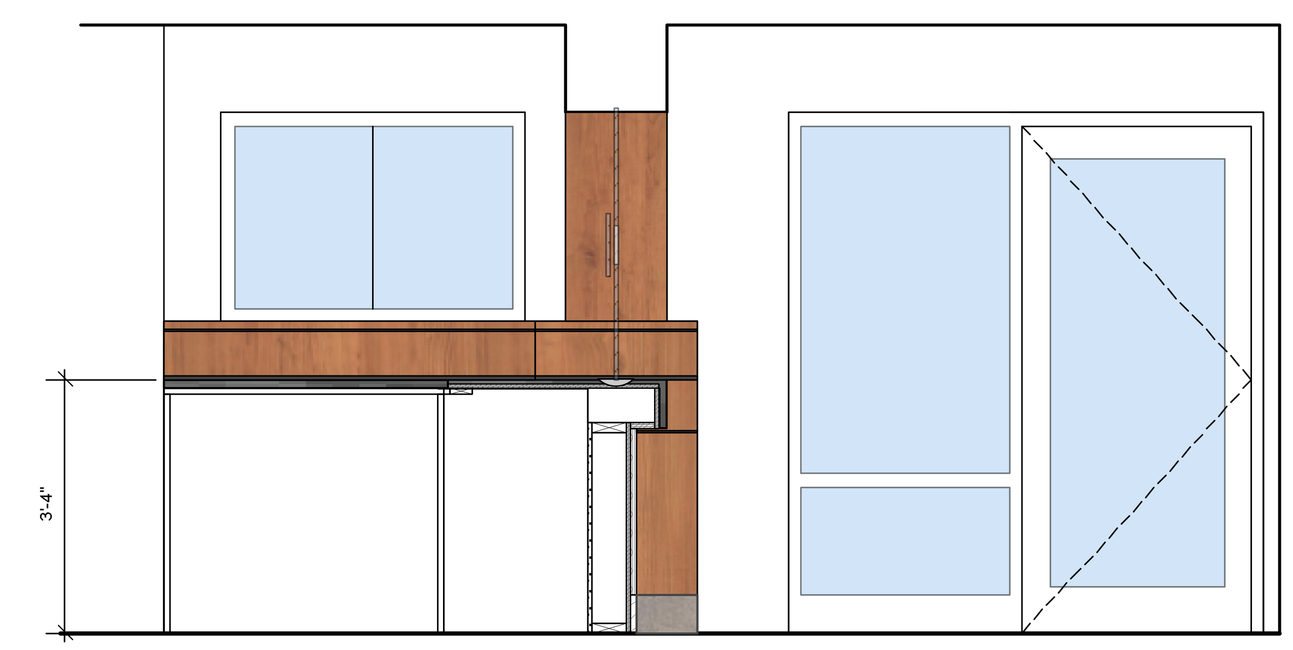

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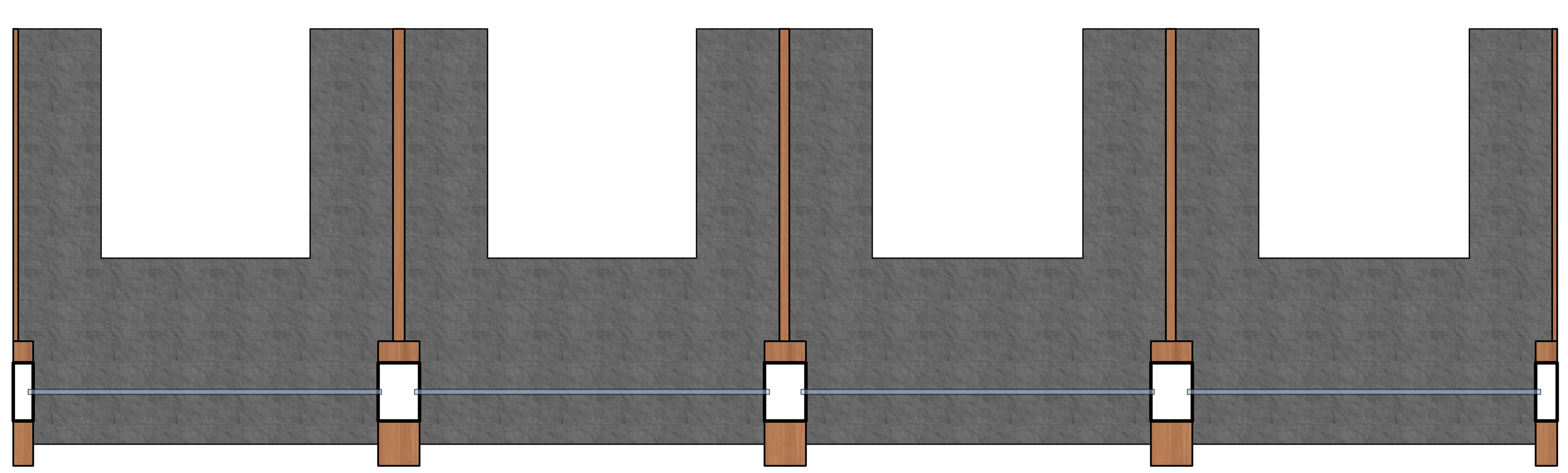

1 A803 PLAN-CASHIER WINDOWS-BUILDING 410
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No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
1	6/3/20	DD Progress

Date	021120
Revision	Revision
Project ID	19679
Drawing Code	Drawing Code
CAD File Name	19679-sd-main-rz-060220
Plot Date	00/00/00
Designed By	
Drawn By	
Checked By	
Reviewed By	
Submitted By	
Project Manager	

Design Firm
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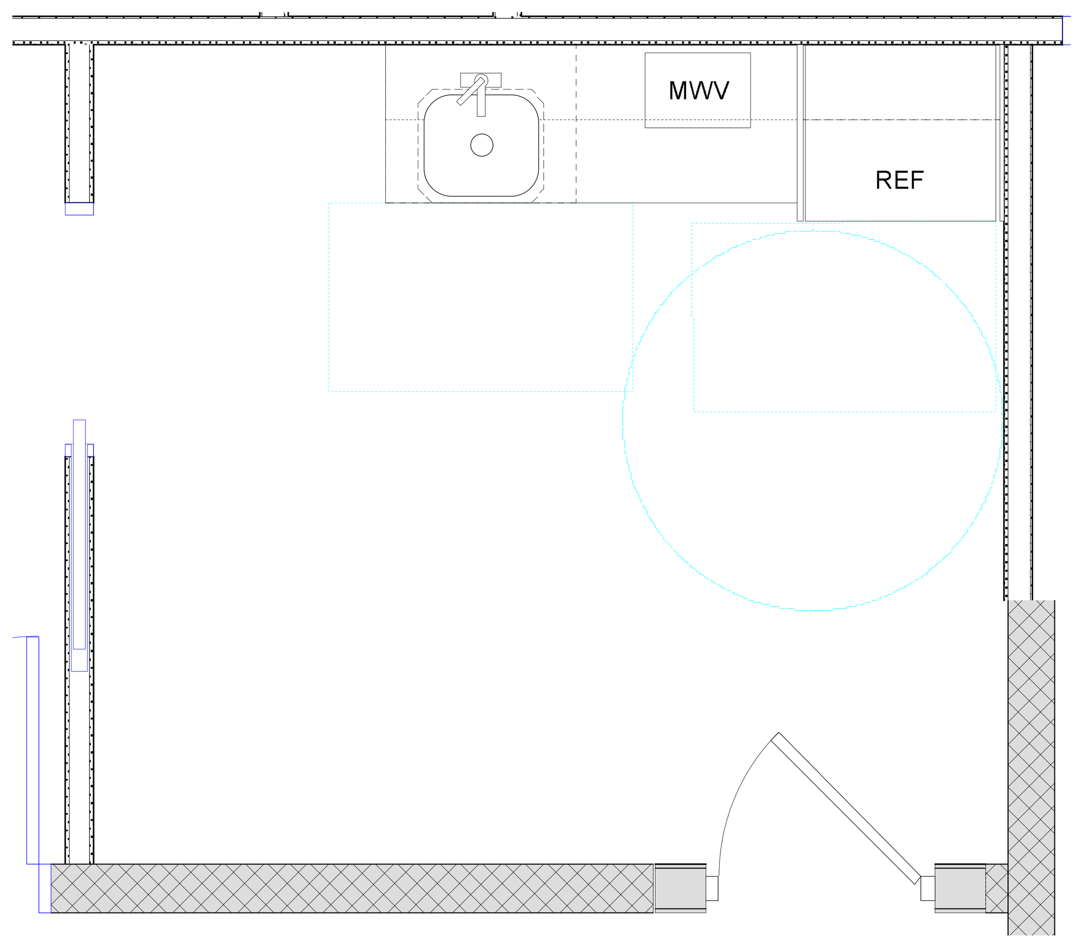
Consultant

Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
INTERIORS-BLDG 410

Scale
Sheet Scale

Drawing No.
A803
of



2
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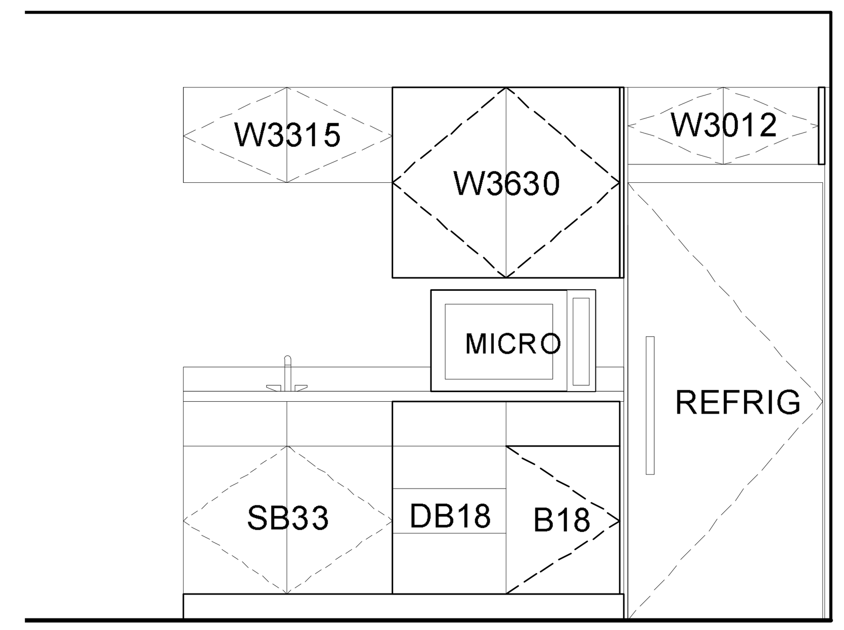
INTERIOR ELEVATION-KITCHENETTE-BLDG 414
Scale: 1/2" = 1'-0"



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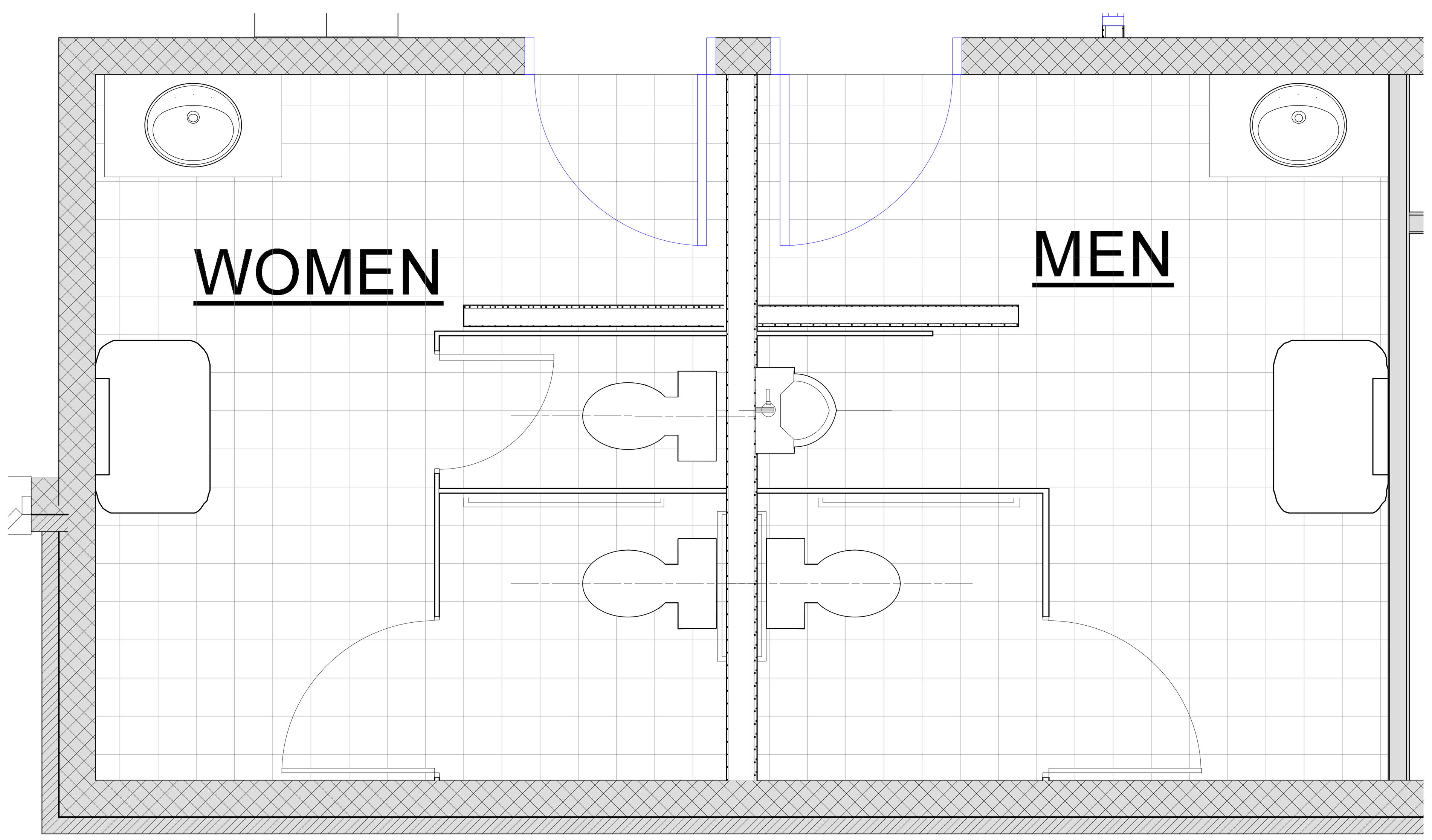

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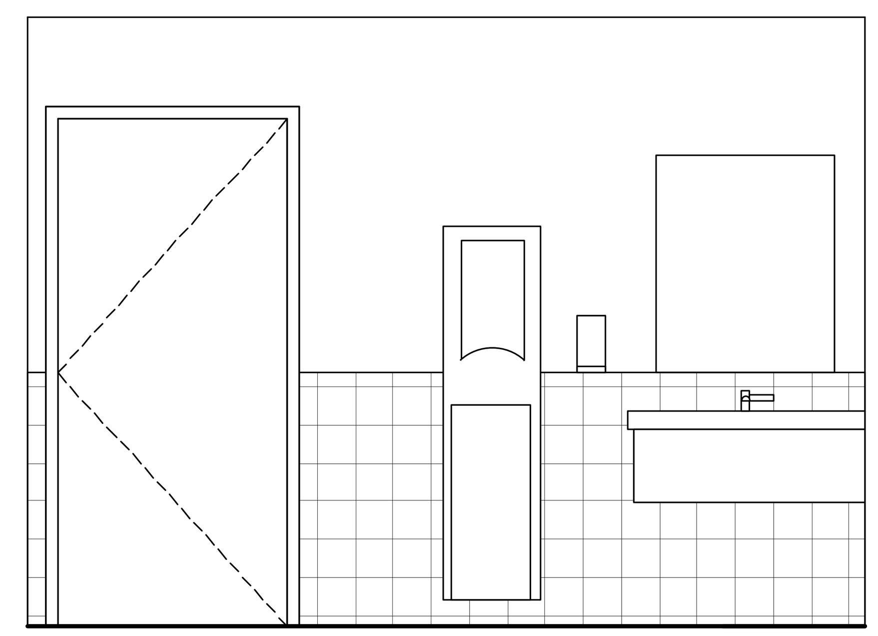

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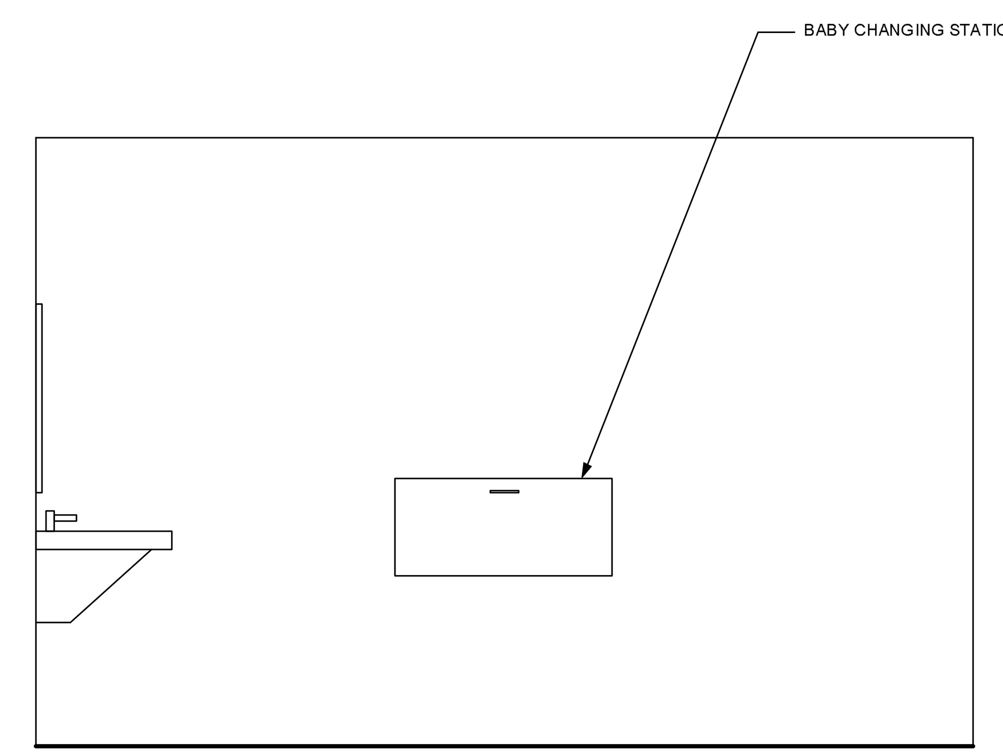

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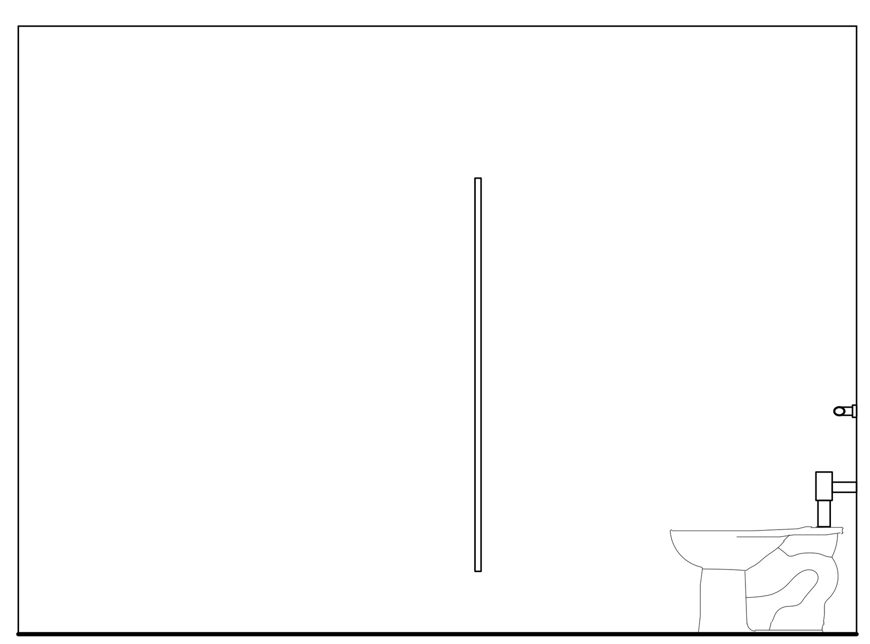
Scale: 1/2" = 1'-0"



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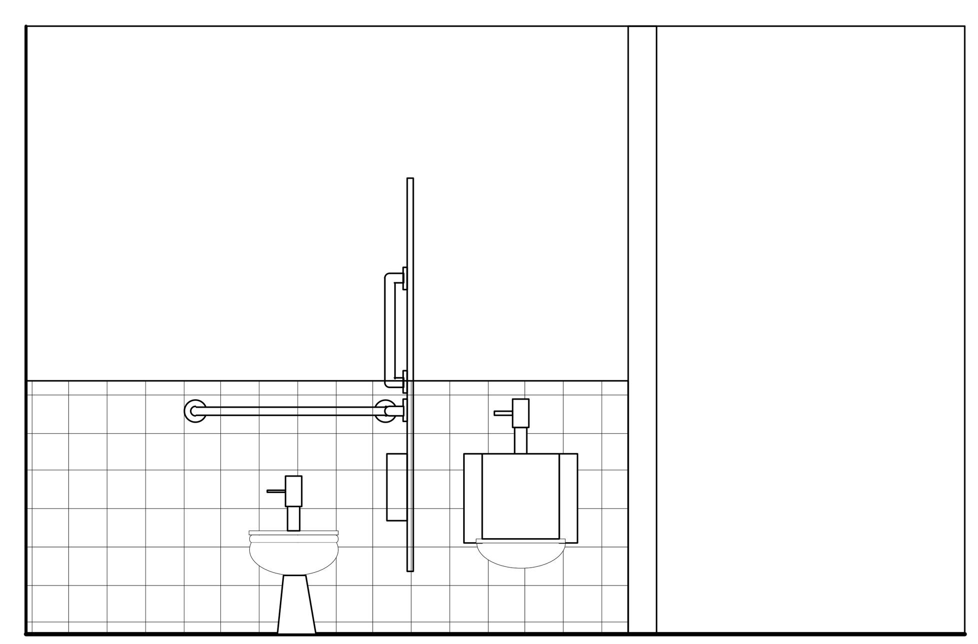
Scale: 1/2" = 1'-0"



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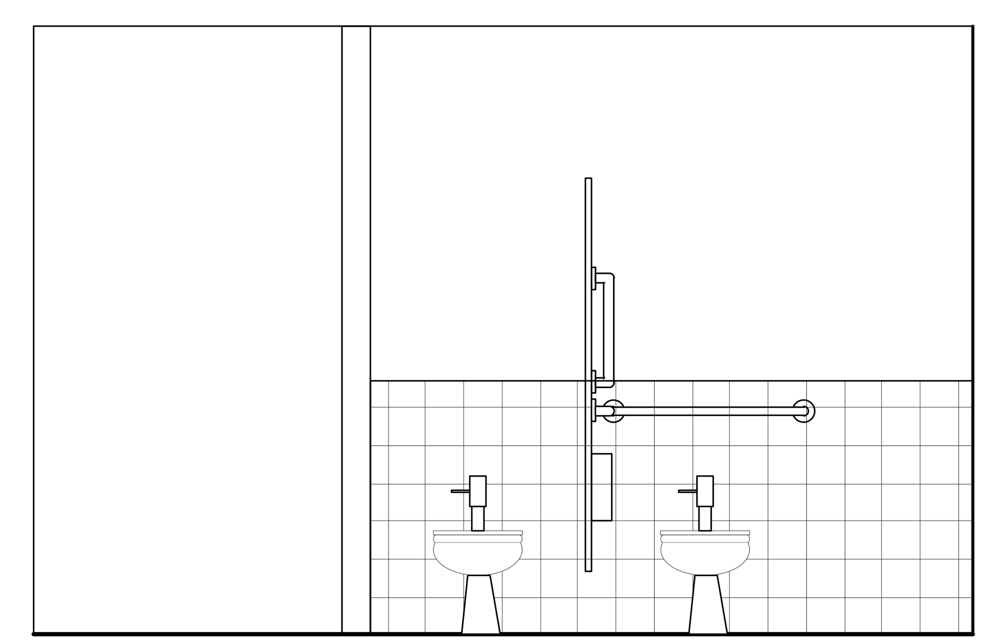
RESTROOM ELEV-BLDG 414
Scale: 1/2" = 1'-0"



2
A810
RESTROOM ELEV-BLDG 414
Scale: 1/2" = 1'-0"

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No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
7	6/3/20	DD Progress
6	5/18/20	MEP underlays
5	5/14/20	MEP underlays
4	5/13/20	Dept Head SD revisions
3	5/12/20	Final SD
2	4/24/20	Madison Cnty Review
1	2/28/20	deliverable to client

Designed By	
Drawn By	
Checked By	
Reviewed By	
Submitted By	
Project Manager	
Date	051320
Revision	Revision
Project ID	19679
Drawing Code	DrawingCode
CAD File Name	19679-sd-main-rz-060220
Plot Date	00/00/00

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Consultant

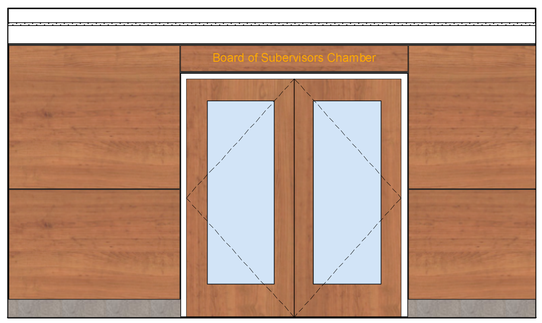
Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
ENLARGED KTCHN & RESTRM-BLDG 414

Scale
Sheet Scale

Drawing No.
A810
of

1 A811 INTERIOR ELEVATION-CORRIDOR-BLDG 414
Scale: 1/2" = 1'-0"



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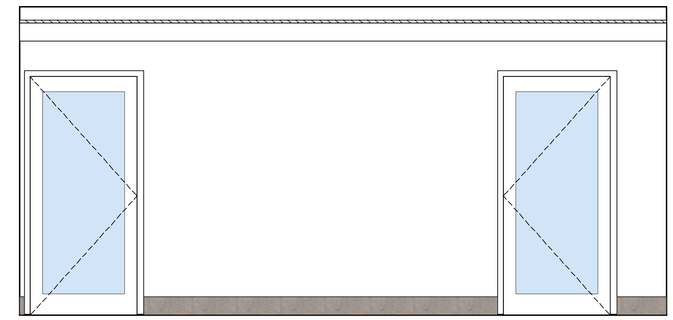

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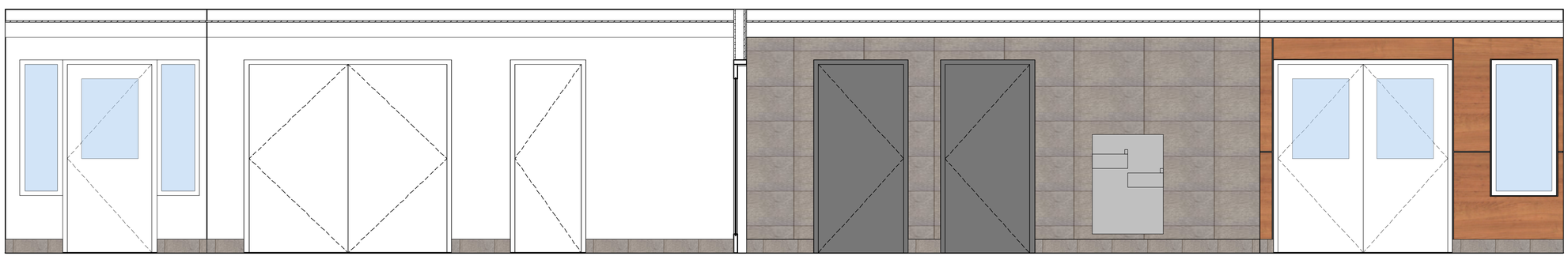

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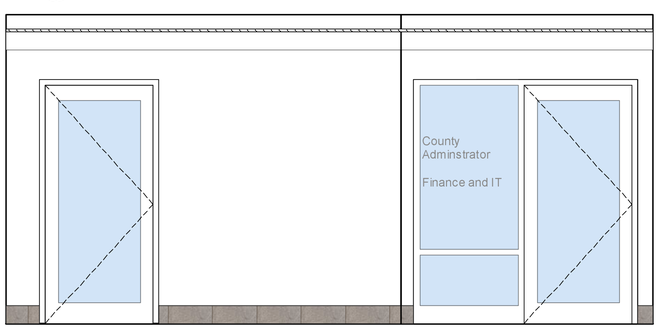

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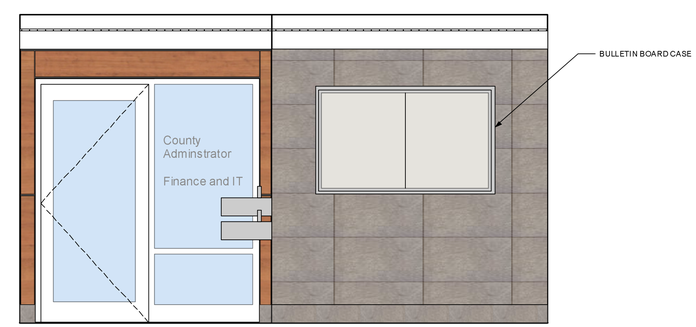
Scale: 1/2" = 1'-0"



1 A811 INTERIOR ELEVATION-CORRIDOR-BLDG 414
Scale: 1/2" = 1'-0"

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No.	Date	Revision/Issue	Zone	Appr
7	8/3/20	DD Progress		
6	6/18/20	MEP underlays		
5	5/14/20	MEP underlays		
4	5/13/20	Dept. review SD revisions		
3	5/13/20	Final SD		
2	4/24/20	Madison Only Review		
1	2/28/20	deliverable to client		

Date	05/20
Drawn by	Rawson
Checked by	1975
Project no.	Drawing Code
Project file name	1975-sd-mpr-rc-000720
Plotted by	00/00/00

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410 NORTH MAIN STREET
MADISON, VA 22727

INTERIORS-BLDG 414

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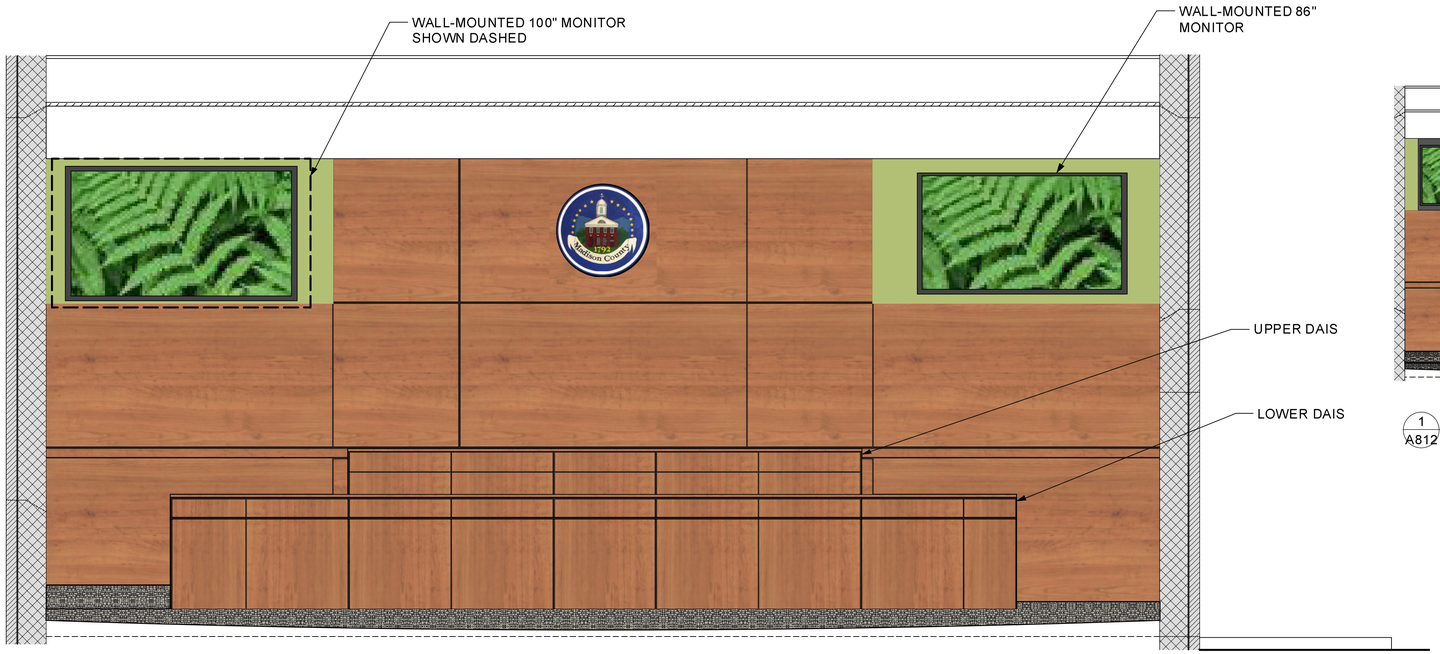

1 A812 INTERIOR ELEVATION-BOS CHAMBERS-BLDG 414
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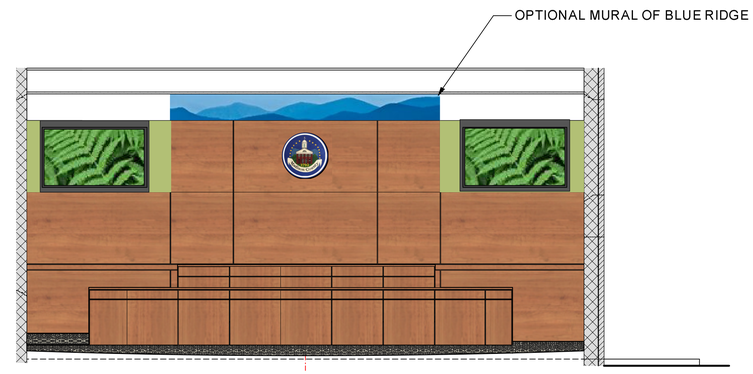

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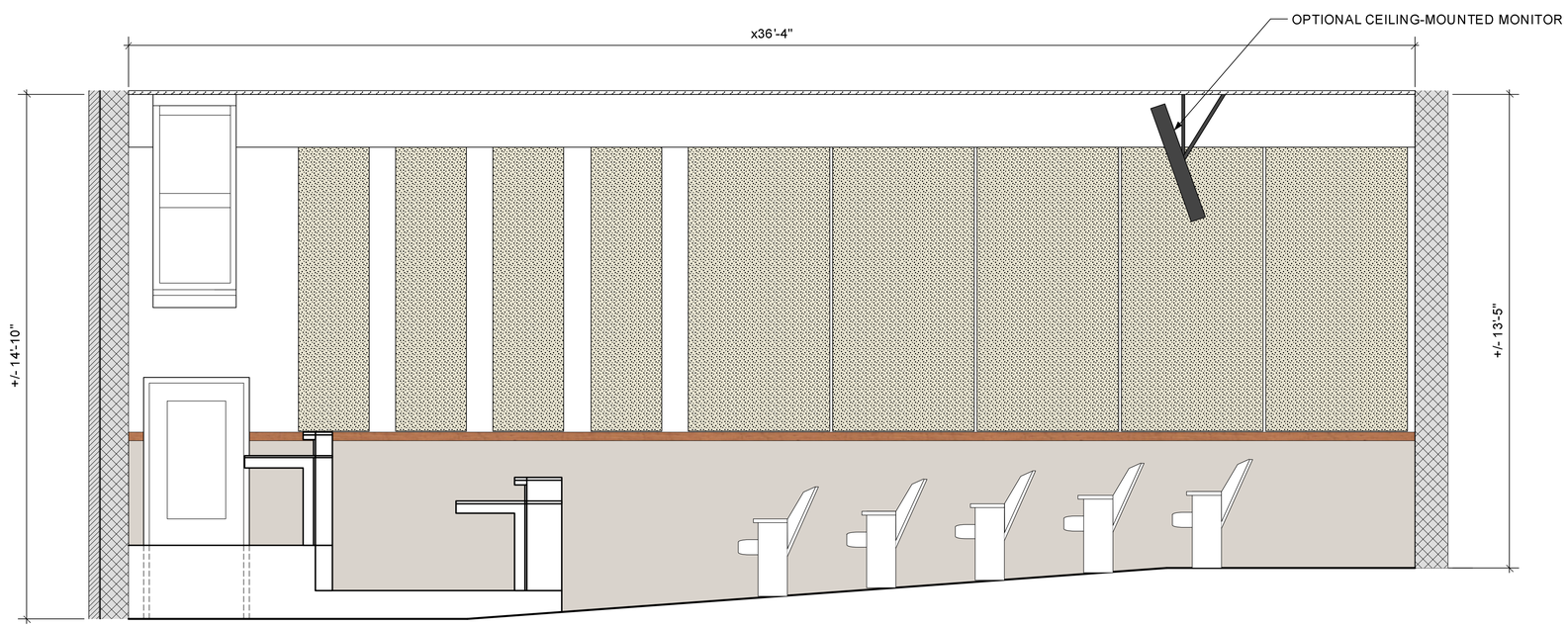

2 A812 INTERIOR ELEVATION-BOS CHAMBER-BLDG 414
Scale: 1/2" = 1'-0"

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No.	Date	Revision/Issue	Zone	Appr
8	6/3/20	DD Progress		
7	6/2/20	IT Review		
6	5/14/20	MEP updates		
5	5/14/20	MEP updates		
4	5/13/20	Dept Head SD revisions		
3	5/12/20	Final SD		
2	4/24/20	Madison City Review		
No.	Date	Issue/Update		

Date: 05/20
Revision: Revision
Project No.: 1875
Drawing Code: 1875-sd-mpr-ci-06/20
File No.: 000000

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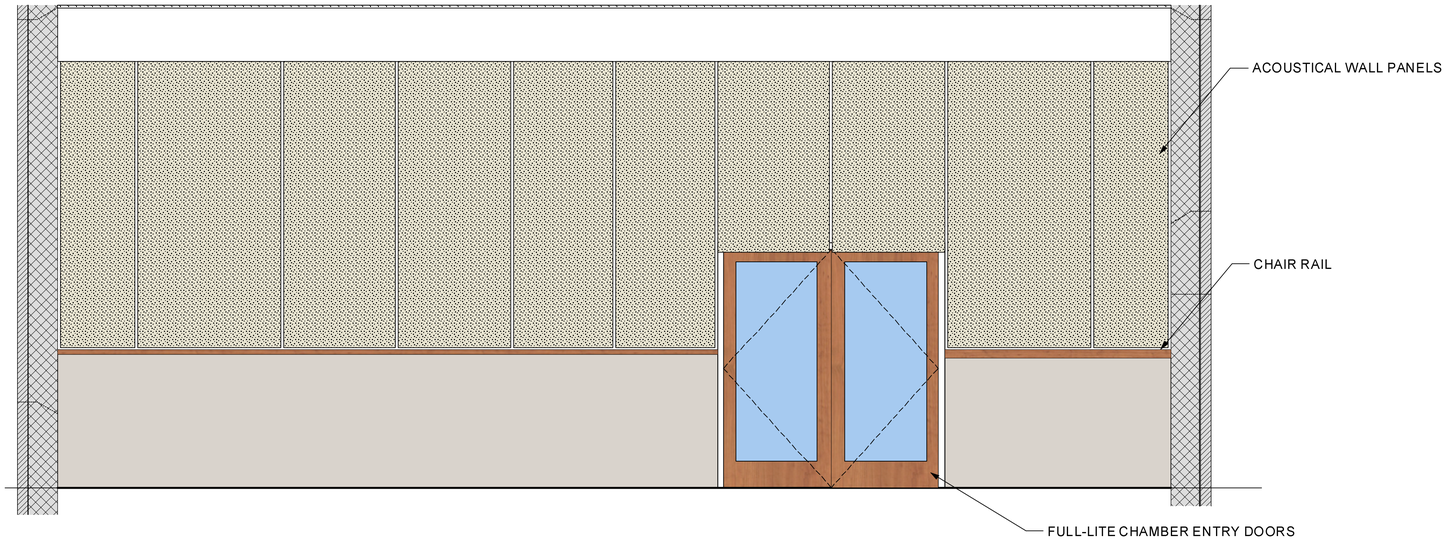
410 NORTH MAIN STREET
MADISON, VA 22727

BOS CHAMBER-BLDG 414

Sheet Scale

A812
of



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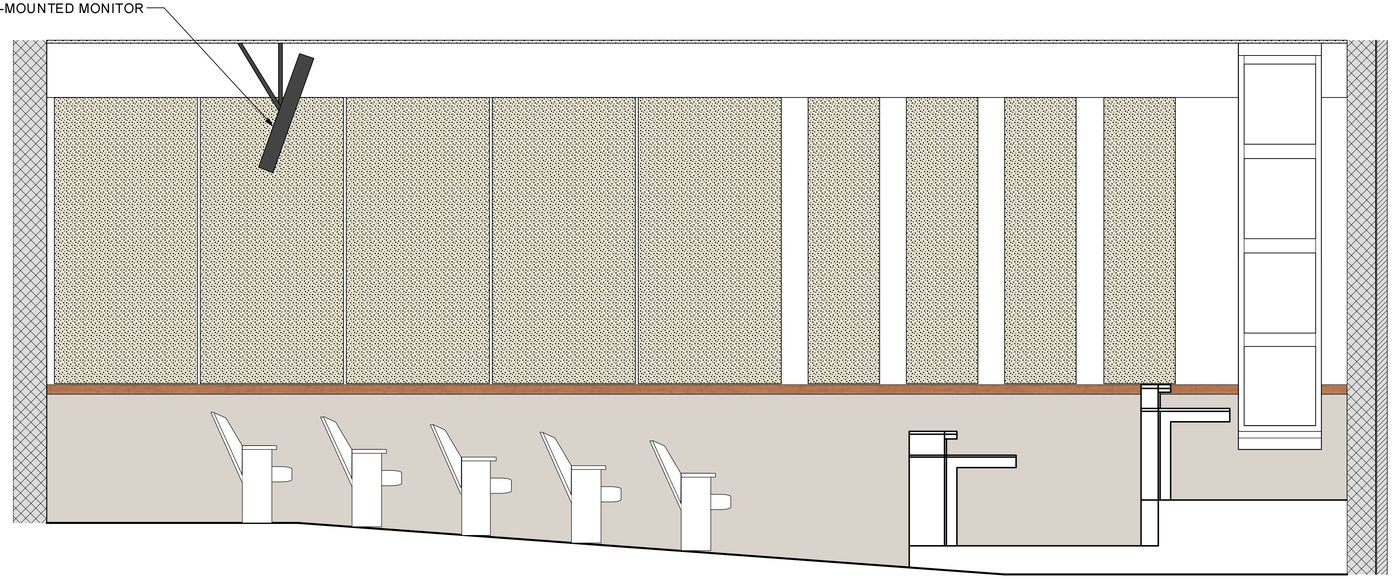

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Scale: 1/2" = 1'-0"

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No.	Date	Revision/Issue	Zone	Appr
9	8/3/20	DD Progress		
7	6/2/20	IT Review		
6	5/14/20	MEP updates		
5	5/14/20	MEP updates		
4	5/13/20	Dept. Head SD revisions		
3	5/12/20	Final SD		
2	4/24/20	Madison Cnty Review		

Drawn by	05/13/20
Reviewed by	Revision
Approved by	1979
Issued by	Drawing Code
Project Number	1979-sd-min-rc-0507/20
Drawing Number	0000/00

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410 NORTH MAIN STREET
MADISON, VA 22727

BOS CHAMBER-BLDG 414

Sheet Scale

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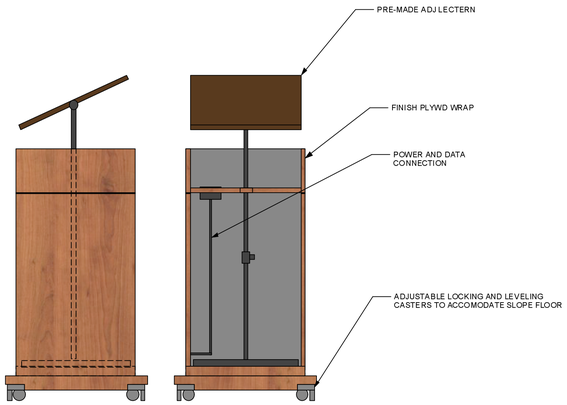
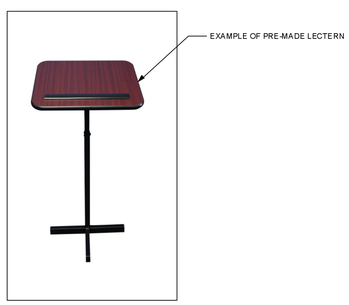
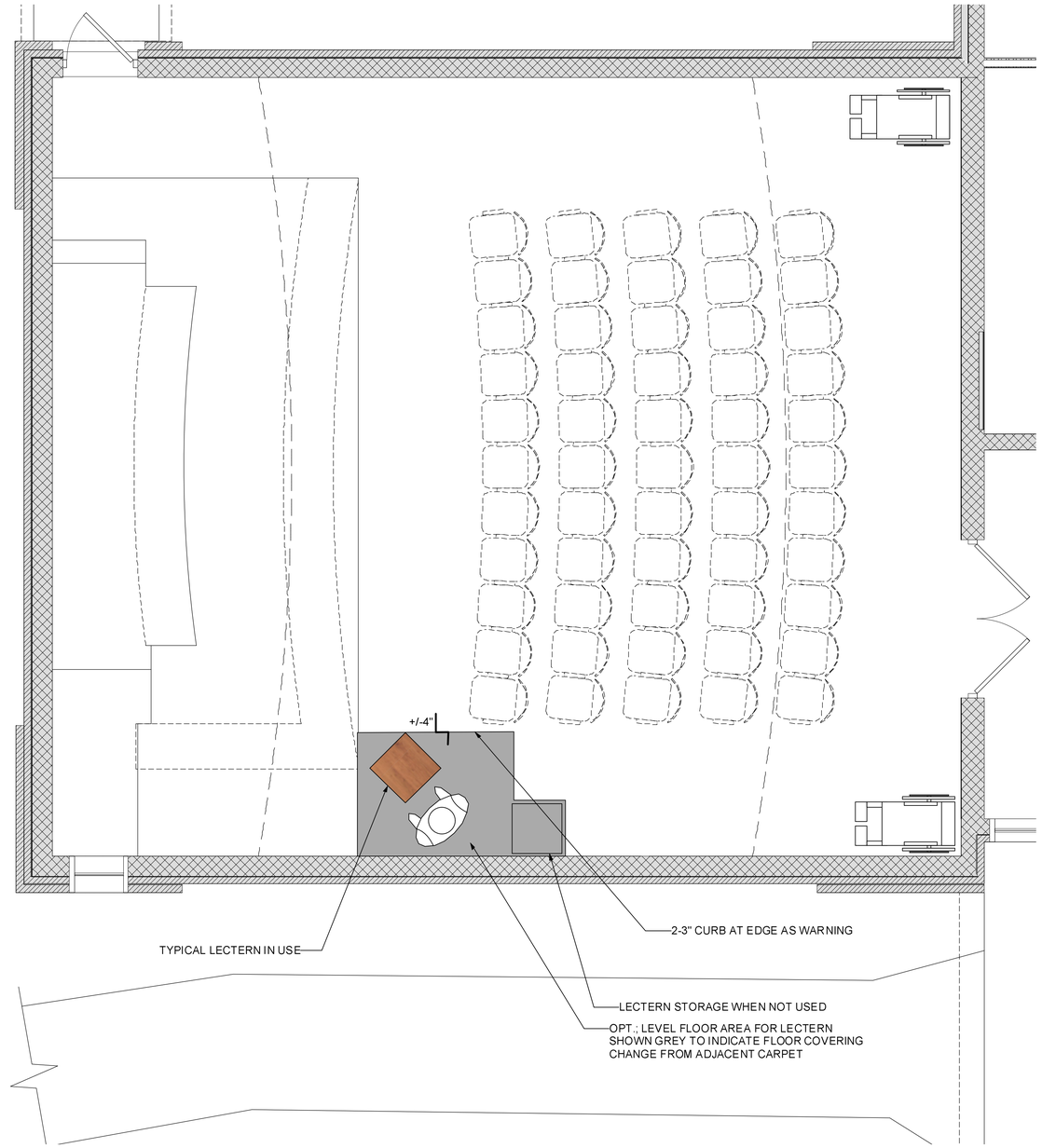




1 A814 ADJUSTABLE BASE LECTURN
Scale: 1" = 1'-0"



1 A814 PLATFORM FOR TYPICAL LECTURN
Scale: 3/8" = 1'-0"

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No.	Date	Revision/Notes	Zone	Appr
7	6/3/20	DD Progress		
6	5/18/20	MEP underlays		
5	5/14/20	Dept Heads		
4	5/13/20	Dept Heads SD revisions		
3	5/12/20	Final SD		
2	4/24/20	Madison Cnty Review		
1	2/28/20	deliverable to client		

No.	Date	Issue/Notes

05/13/20	Revision	19079
Drawing Code	19079-sd-main-a-090128	0/00/00

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410 NORTH MAIN STREET
MADISON, VA 22727

BOS CHAMBER-BLDG 414

Sheet Scale

A814
of

19679-DOOR SCHEDULE

ABBREVIATIONS: WD = WOOD, PG = PAINT-GRADE, SG = STAIN-GRADE, PRFN= FACTORY PRE-FINISHED, FJ = FINGER-JOINTED, HM = HOLLOW METAL, SC = SOLID-CORE, HC = HOLLOW-CORE, PB = PARTICLE BOARD, MC= MINERAL CORE; WV = WOOD VENEER, O = OPERABLE, S= STATIONARY, PNL = PANEL, AWN=AWNING,CSM=CASEMENT

GENERAL NOTES:

1. FRAME DEPTH FOR HM FRAMES = THROAT = TH; ALL THROATS SHALL BE VIF PRIOR TO ORDERING TO CONFIRM THAT WALL DEPTH MATCHES ARCHTL DRAWINGS.
2. UNLESS OTHERWISE NOTED, DOOR SLABS, DOOR FRAMES AND PRE-HUNG DOOR UNITS ARE A SUBMITTAL ITEM AND ALL ITEMS, SIZES AND LAYOUTS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR AND/OR VENDOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES AND/OR INCOMPLETE INFORMATION DURING THE SUBMITTAL PROCESS AND/OR PRIOR TO ORDERING. NOTE THAT DOOR FRAME THROATS ARE SPECIFIED AS THE ACTUAL (DIMENSIONAL) THROAT DIMENSION AND ALREADY INCLUDE ALLOWANCE FOR A GAP.
3. SEE DOOR H/W SCHEDULE, IF PROVIDED, FOR DOOR H/W COMPONENTS AND FINISHES REFERENCED BELOW.
3. ALL POCKET DOOR, SLIDING BYPASS DOOR AND BARN DOOR LENGTHS SHALL BE VIF PRIOR TO ORDERING TRACKS, RAILS AND NECESSARY APPURTENANCES. DO NOT INSTALL TILE ON PD WALLS UNLESS APPROVED

U-VALUE AND OTHER REQUIREMENTS:

COMMERCIAL BUILDINGS OPAQUE DOORS [DOORS HAVING < 50% GLASS AREA] (2015 TABLE C402.1): SWINGING = U-0.37; NON-SWINGING = R-4.75; VERT. FENESTRATION (2015 NYSECC TABLE C402.4): FIXED = U-0.38; OPERABLE = U-0.45; ENTRANCE DOORS = U-0.77; SHGC: PF<0.2 = 0.40; 0.2≤PF<0.5; PF≥0.64
RESIDENTIAL BUILDINGS OPAQUE DOORS [DOORS HAVING < 50% GLASS AREA] (2015 TABLE C402.1): SWINGING = U-0.37; NON-SWINGING = R-4.75; [DOORS W/O LABELED U-FACTOR, INSUL'D, NON-METAL EDGE, MAX 45% GLAZING, ANY GLAZING DOULBE PANE (2015 TABLE R303.1.3(2))] = U-0.35; FENESTRATION (2015 TABLE R402.1.2): FENESTRATION = U-0.32; ALL GLAZED FENESTRATION SHGC = NO REQUIREMENT

BUILDING 410
FIRST/GROUND LEVEL

ARCH MK			CLIENT MK			LCN	QTY	TYPE	MANUFT	DR SLAB TYPE	DR EXT FIN	DR INT FIN	GLAZE	DR DIMS			FRAME TYPE	FRAME DEPTH	FRAME EXT FIN	INT FIN	EGRESS CODE REQ	DR FIRE RATING	FRAME FIRE RATING	HW+FIN	SCREEN+ FIN	NOTES
FLR	SP	#	FLR	SP	#									THICK	W	H										

BUILDING 414
FIRST/GROUND FLOOR

ARCH MK			CLIENT MK			LCN	QTY	TYPE	MANUFT	DR SLAB TYPE	DR EXT FIN	DR INT FIN	GLAZE	DR DIMS			FRAME TYPE	FRAME DEPTH	FRAME EXT FIN	INT FIN	EGRESS CODE REQ	DR FIRE RATING	FRAME FIRE RATING	HW+FIN	SCREEN+ FIN	NOTES
FLR	SP	#	FLR	SP	#									THICK	W	H										

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No.	Date	Revision/Notes
1	6/3/20	DD Progress

No.	Date	Revision/Notes

Project No. 02120
Drawn by
Reviewed by
Project No. 19679
Drawing Code
Issued for
Issued date 000000
Revision(s)
Revision Date
Revision Note
Issued by
Project Manager

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Project No. COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title DOOR SCHEDULE

Sheet Scale

Drawing No. A900
of

19679-finish sched blank-052720

FINISH SCHEDULE

ABBREVIATIONS: MDF = MDF, PG = PAINT-GRADE, STAIN-GRADE = SG, PRFN= FACTORY PRE-FINISHED,FJ = FINGER-JOINTED, HM = HOLLOW METAL, SC = SOLID-CORE, HC = HOLLOW-CORE, PB = PARTICLE BOARD, MC= MINERAL CORE; WV = MDF VENEER, O = OPERABLE, S= STATIONARY, PNL = PANEL, GPDW=GYPSUM DRYWALL

NOTES:

BUILDING 410 - FIRST/GROUND LEVEL

MK	ROOM NAME	FLOOR	BASE		W'SCOT		TRIM		WALLS		CEILING		REMARKS
		MAT'L	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	

BUILDING 414 – FIRST/GROUND LEVEL

MK	ROOM NAME	FLOOR	BASE		W'SCOT		TRIM		WALLS		CEILING		REMARKS
		MAT'L	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	

19679-product sched-052720

PRODUCT SCHEDULE

GENERAL NOTES:

PRODUCT	MK	MANUFACTURER	NAME	COLOR	SIZE	REMARKS
WALL BASE	B-1					
	B-2					
	B-3					
CARPET	CPT-1					
CEMENTITOUS MASONRY UNIT	CMU-1					
	CMU-2					
CERAMIC TILE	CT-1					
	CT-2					
ENGINEERED WOOD FLOORING	F-1					
GROUT	GT-1					
PAINT	PTD-1					
	PTD-2					
	PTD-3					
VINYL CERAMIC TILE	VCT-1					

NORMAN
SMITH
ARCHITECTURE

DC: 202 . 462 . 5886 VA: 540 . 547. 4839 www.normansmitharchitecture.com

1341 H Street, N.E., Washington, DC 20002-4406 ; 3637 Slate Mills Road, Sperryville, VA 22740-2410

SUMMARY FINISH SCHEDULE

1. FLOORS
   - 1.1. LOBBY AND PUBLIC SPACES 12X 24 -30 COMMERCIAL GRADE TILE IN THINSET WITH COVE BASE TRIM TO WALL
   - 1.2. BATHS: 4X4-6X6 COMMERCIAL GRADE TILE IN THINSET
   - 1.3. OFFICE SPACES: VCT OR CARPET
   - 1.4. BUILDING AND ZONING: VCT
   - 1.5. BOS AUDITORIUM; NEW CARPET
2. CEILINGS
   - 2.1. 410 AND 414 PUBLIC SPACES: 2X2 TEGULAR ACT
   - 2.2. BOS AUDITORIUM; NEW STANDARD 2X4 ACT
   - 2.3. OFFICE SPACES: 2X2 STANDARD ACT
   - 2.4. BATHS: 2X2 STANDARD ACT
3. WALLS
   - 3.1. ½"- 5/8" GPDW, PAINTED ACRYLIC LATEX SATIN FINISH FOR DURABILITY
   - 3.2. EXPOSED CMU WALLS NOT OTHERWISE COVERED; ACRYLIC LATEX, FLAT
   - 3.3. BOS AUDITORIUM EXPOSED CMU WALLS NOT OTHERWISE COVERED; ACRYLIC LATEX, FLAT
   - 3.4. WALL AREAS AROUND BATHROOMS IN 410 AND 414; 12X 24 -30 COMMERCIAL GRADE TILE IN THINSET WITH COVE BASE TRIM TO FLOOR
   - 3.5. WALL AREAS IN LOBBY OF 410 AND 414; ¾" STAINED AND CLEAR-COATED PLYWOOD/MDF, MAPLE/ASH/WHITE OAK, INSTALLED OVER 1X PAINTED FURRING
   - 3.6. WALL AREAS IN BOS AUDITORIUM; ¾" STAINED AND CLEAR-COATED PLYWOOD/MDF, MAPLE/ASH/WHITE OAK, INSTALLED OVER 1X PAINTED FURRING
   - 3.7. ACOUSTIC PANELS IN BOS AUDITORIUM; KNS VERSATUNE 2 1/8" PANEL; APPROX 500 SF
4. CABINETRY IF PROVIDED AS ADD ALTERNATE
   - 4.1. WHITE/GREY MELAMINE FULL FLUSH OVERLAY, MERRILAT OR SIMILAR
5. COUNTERTOPS: SOLID SURFACE MATERIAL SIMILAR TO CORIAN
6. DOORS
   - 6.1. OFFICE DOORS: FULL-LIGHT METAL OR WOOD PAINT GRADE DOOR IN STEEL FRAME WITH SIDELIGHT AS SHOWN/NOTED
     - 6.1.1. ADD-ALTERNATE; ADHERED PRIVACY FILM- SEE CUTSHEET
   - 6.2. BATH DOORS: PAINT GRADE SOLID CORE WOOD OR HOLLOW METAL INB STEEL FRAME
   - 6.3. BOS AUDITORIUM: PARTIAL LIGHT WOOD DOORS IN VENEER TO MATCH PANELING WITH PRIVACY FILM

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Page 1 of 1

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No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
1	6/3/20	DD Progress

Date	021120
Revision	Revision
Project ID	19679
Drawing Code	Drawing Code
CAD File Name	19679-sd-main-rz-060220
Plot Date	00/00/00
Designed By	
Drawn By	
Checked By	
Reviewed By	
Submitted By	
Project Manager	

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Consultant

Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
FINISH SCHEDULE

Scale
Sheet Scale

Drawing No.
A901
of

legrand®

WIREMOLD®
Access® 5000 Series Raceway

Aesthetically Pleasing, Nonmetallic, Low-Profile, Multiple Channel Raceway System

Access® 5000 Series Raceway conceals and organizes electrical wiring and low-voltage cabling in low-profile, decorative molding. The dual channels and low-profile device plates of this attractive raceway provide multiple options for power and communications cabling.

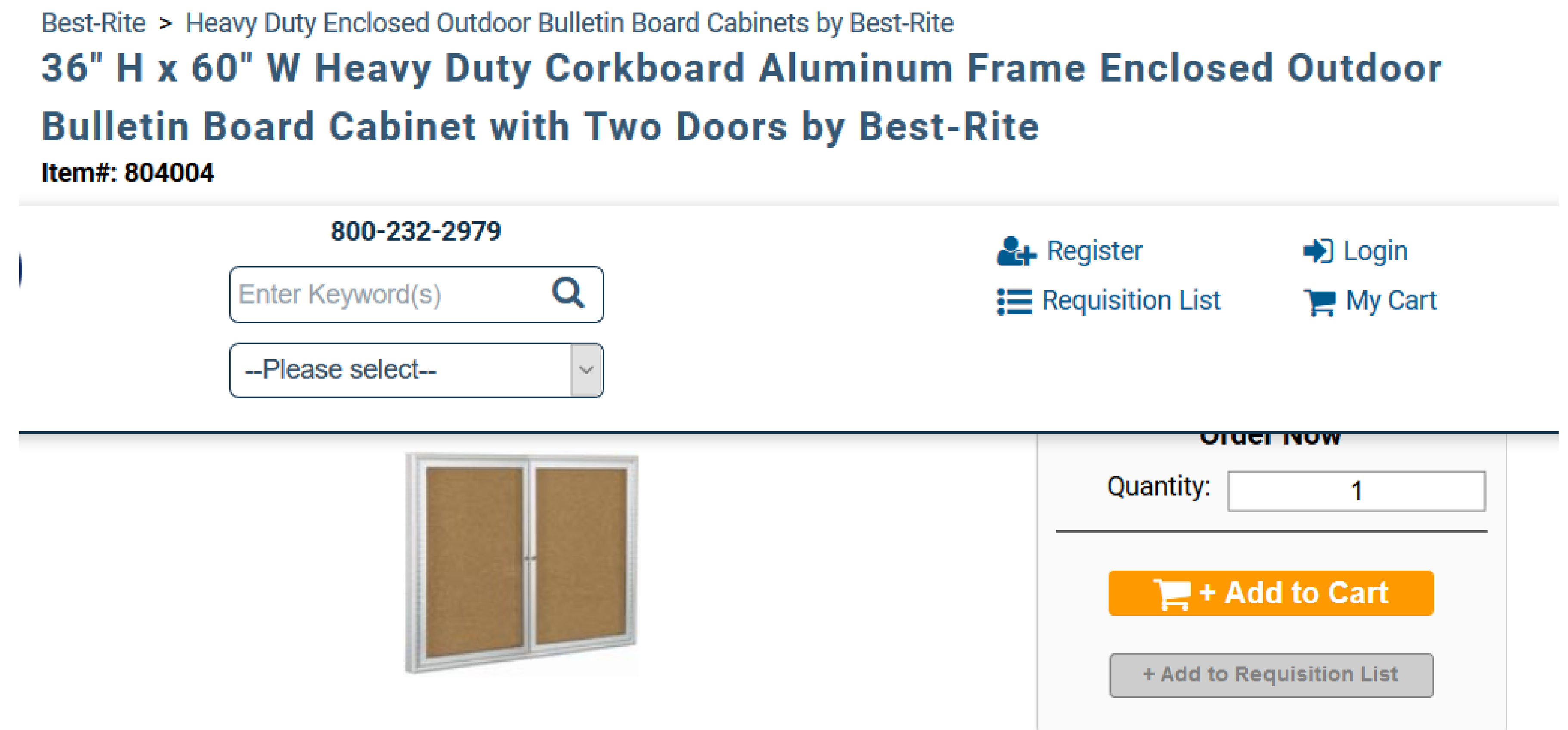
Access 5000 Series Raceway also saves time and money because it installs faster and cleaner than conventional in-wall wiring. It's also more energy efficient because walls, vapor barriers and insulation remain intact. And it's a snap to reconfigure when adding wiring or cabling to homes, offices, classrooms or hotels.

Access 5000 Series Raceway installed as baseboard.

FEATURES & BENEFITS

- **Dual channel raceway.** Power and low-voltage can be run in same raceway.
- **Modular device brackets and faceplates.** New and emerging power or communications technologies can be integrated into existing installations reducing overall life cycle costs.
- **Patented safety interlock system on covers.** Offers additional safety for home or high traffic applications.
- **Full line of fittings and accessories.** Fittings snap onto base and overlap to cover seams for quick and easy installation.
- **Eight-foot lengths.** Easy installation by one person with fewer joints to cover. Custom lengths are also available. Consult factory for more information.
- **Low-profile design.** Raceway can be installed as architectural molding to eliminate the need for additional finish work.
- **Aesthetic finish options.** Variety of PVC finishes available to enhance any decor.
- **Durable PVC material.** Lightweight and easy to cut and install. Meets UL flammability requirements and is UL Listed and CSA Approved for up to 600 volts.
- **Datacom connectivity options.** Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, data, audio, and video applications at the point of use.
- **UL and cUL Listed component raceways.** File E90378 Guide RJTX, Fittings: File E90377 Guide RJYT. Meets Article 386 of NEC and meets Section 12-600 of CEC.

Access 5000 Series Raceway can be installed as baseboard, chair rail or crown molding.



Buy the Heavy Duty Enclosed Outdoor Bulletin Board Cabinet with One Door by Best-Rite featuring both silver or coffee color rust-free aluminum frames and an internal 2" depth. Locking hinged doors protect items on display and feature full length piano hinges to prevent pinched fingers. Mount beneath an overhang or in a semi-enclosed space.

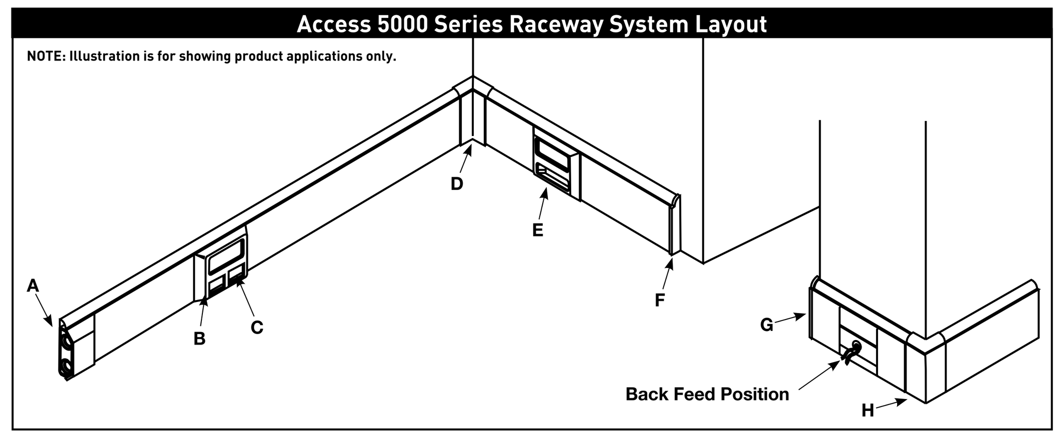
Image is for illustrative purposes only. This item only has 2 doors

Specifications

- Dimensions: 60"D36"H

Access 5000 Series Raceway System Layout

NOTE: Illustration is for showing product applications only.



A – 5010A	Entrance End Feed	**E – 5007C-1A**	Device Bracket
B – 5007C-2A	Deep Device Bracket	**F – 5010R**	Right End Cap
C – 2A	Activate Connectivity Insert	**G – 5010L**	Left End Cap
D – 5017B, 5017C	Internal Base Elbow, Internal Cover Elbow	**H – 5018B, 5018C**	External Base Elbow, External Cover Elbow

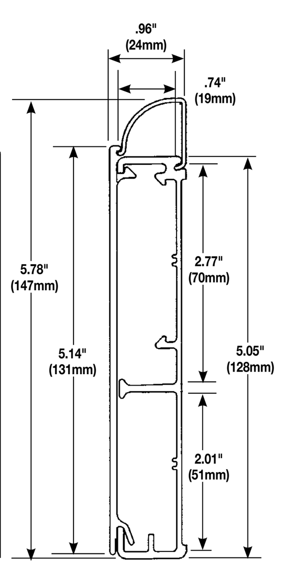
Access 5000 Series Raceway Wire Fill Capacity Charts

ACCESS 5000 RACEWAY WIRE CAPACITIES FOR POWER/TOP COMPARTMENT	
WIRE SIZE	THHN, THWN
10 AWG	12
12 AWG	20
14 AWG	24

ACCESS 5000 RACEWAY CABLE FILL CAPACITIES FOR DATA/COMMUNICATION

	CABLE/WIRE SIZE	O.D. Inches	O.D. (mm)	Bottom Compartment 20% Fill	Bottom Compartment 40% Fill	Top Compartment 20% Fill	Top Compartment 40%Fill
UNSHIELDED TWISTED PAIR	4-pair, 24 AWG Cat 5 UTP 4-pair, 24 AWG Cat 3 UTP	0.220 0.190	5.5 4.8	7 9	14 19	10 13	20 27
TELEPHONE	2-pair, 24 AWG 3-pair, 24 AWG 4-pair, 24 AWG 25-pair, 24 AWG	0.140 0.150 0.190 0.410	3.5 3.8 4.8 10.3	18 15 9 2	36 31 19 4	25 21 13 2	50 43 27 5
COAXIAL	RG58/U RG59/U RG62/U RG6/U	0.195 0.242 0.242 0.270	4.7 6.1 6.1 6.8	9 6 6 4	18 12 12 9	13 8 8 6	26 16 16 13
TWINAXIAL	100 Ohm	0.330	8.3	3	6	4	9
SHIELDED TWISTED PAIR	TYPE 1 TYPE 2 TYPE 3	0.390 0.465 0.245	9.8 11.6 6.1	2 1 5	4 3 11	3 2 8	6 4 16
FIBER OPTIC	Two Strand (Duplex) Multimode, 62.5/125 µm	0.19	4.8	9	19	13	27

* 20% cable fill is calculated to approximate reduction in cable capacity due to connectors mounted within raceway and fittings that may restrict cross sectional area.
** 40% cable fill is the maximum designed cable fill based on a proposal revision to TIA/EIA-569-A.



Without Device Plate

PEP eco PASSPORT® Download this product's PEP ecopassport® environmental product declaration at www.legrand.us/resources-and-downloads. This declaration conforms with ISO 14025 and 14040 and is in alignment with EN 15804.

ULTIMA®
ULTIMA® High NRC
Tegular
fine texture

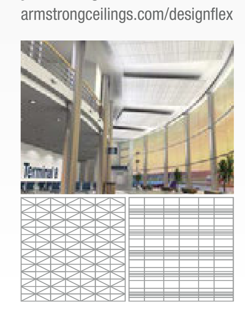
TOTAL ACOUSTICS® Sound Absorption (NRC) + Sound Blocking (CAC)
SUSTAIN® High Performance Sustainable Ceiling Systems
DESIGNFlex™ A New World of Choice for Ceiling Systems

Ultima® Beveled Tegular panels with Sonata® 9/16" suspension system (Pg. 466)

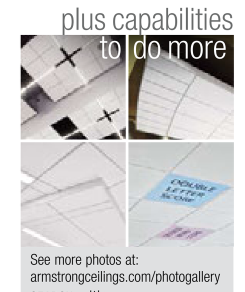
DESIGNFlex™ CEILING SYSTEMS
SHAPES SIZES

See Ultima® Shapes Page 148-151

Personalize Your Design!
Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at: armstrongceilings.com/designflex



plus capabilities to do more



See more photos at: armstrongceilings.com/photogallery
SEARCH: ultima

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces.

KEY SELECTION ATTRIBUTES

- new DesignFlex™ options include shapes and made-to-order sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Excellent sound absorption
- USDA Certified Biobased Product, 95%
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: items 1911HRC, 1912HRC, 1914HRC, 1915HRC. 71% Pre-consumer; 15% Post-consumer
- Available with AirGuard™ coating
- Item 1912 available with Create!™ printed images and patterns
- Non-directional visual reduces scrap and installation time
- Compatible with the TechZone® Ceiling Systems
- Available with factory-cut holes for USAI® trimless downlight fixture integration. For details, refer to the Center Cut Panels for Recessed Downlighting data page.
- 30-Year Limited System Warranty against visible sag (excludes items 1905 and 1929), mold, and mildew
- 10-Year replacement panel available for items 1911, 1912, 1914, 1915

10-YEAR REPLACEMENT PANEL AVAILABILITY

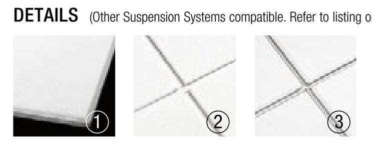
TYPICAL APPLICATIONS

- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas
- Department stores/retail

COLOR

White (WH)

DETAILS (Other Suspension Systems compatible. Refer to listing on page 381.)



1. Ultima® Beveled Tegular
2. Ultima® with Suprafine® 9/16" suspension system
3. Ultima® with Silhouette® XL® 9/16" suspension system with 1/4" reveal

Armstrong® CEILING & WALL SOLUTIONS

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No.	Date	Zone	Revision Notes	Appr

No.	Date	Issue Notes
1	6/3/20	DD Progress

Date	021120
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Project ID	19679
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CAD File Name	19679-sd-main-rz-060220
Plot Date	00/00/00
Designed By	
Drawn By	
Checked By	
Reviewed By	
Submitted By	
Project Manager	

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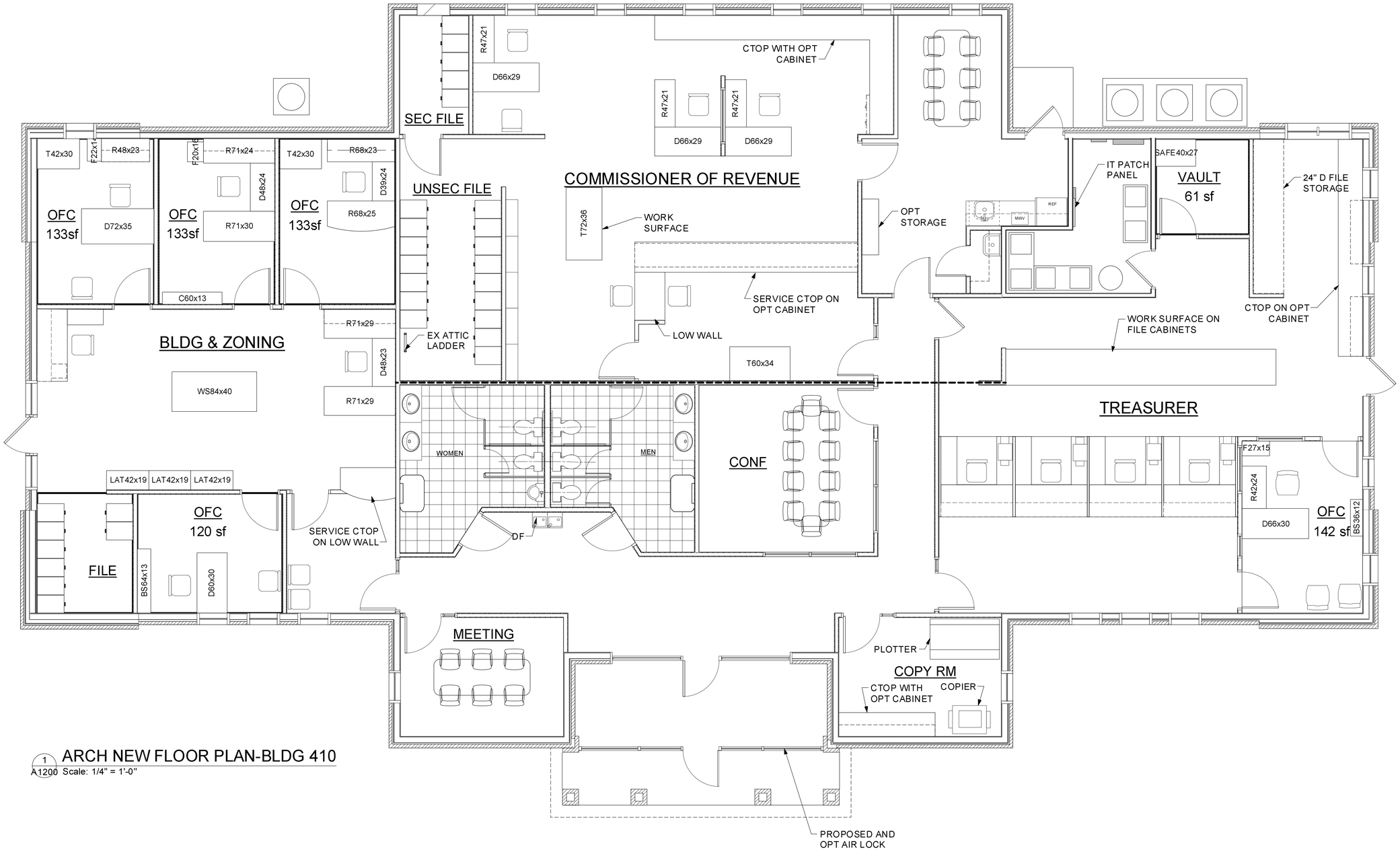
Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
PROJECT GENERAL NOTES

Scale
Sheet Scale

Drawing No.
A1000
of



1 A1200 ARCH NEW FLOOR PLAN-BLDG 410
Scale: 1/4" = 1'-0"

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No.	Date	Revision/Issues	Zone	Appr
6	6/3/20	DD Progress		
5	5/14/20	MEP review sets		
4	5/13/20	Dept heads SD revisions		
3	5/12/20	Final SD		
2	4/24/20	Madison Only Review		
1	2/28/20	deliverable to client		

Date	05/13/20
Revision	19976
Drawing Code	19976-bd-min-cc-050120
Plot Date	05/20/20

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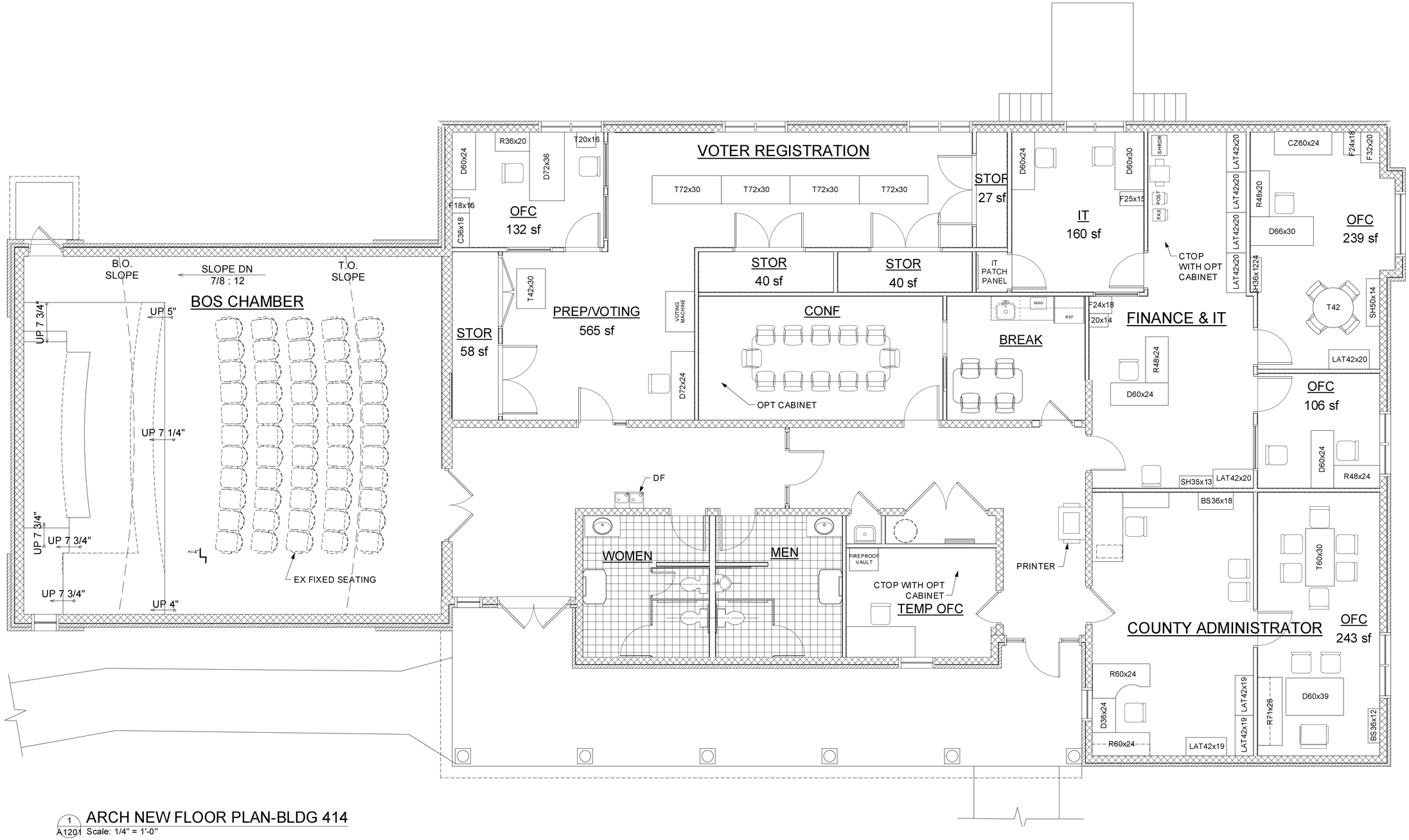
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

ARCH FLRN PLAN-BLDG 410

Sheet Scale

A1200

of



1 A1201 ARCH NEW FLOOR PLAN-BLDG 414
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No.	Date	Issue/Status
6	6/3/20	CD Progress
5	5/14/20	MEP review/revisions
4	5/1/20	Dept review SD revisions
3	5/1/20	Final SD
2	4/24/20	Madison Only Review
1	2/28/20	deliverable to client

Date	05/13/20
Revision	Reason
Drawn by	18/76
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Date of issue	18/76-cd-man-p-000228
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ARCH FURN PLAN-BLDG 414

Sheet Scale

A1201
of

SYMBOLS

MECHANICAL EQUIPMENT TAG

- EQUIPMENT DESIGNATION (SEE ABBREVIATIONS)
- NUMBER DESIGNATION

AIR DISTRIBUTION DEVICE TAG

- DEVICE TYPE (SEE ABBREVIATIONS)
- AIR QUANTITY (CFM)

THERMOSTAT

FORCED AIRFLOW

INDUCED AIRFLOW

DEMOLITION PLAN NOTE

NEW WORK PLAN NOTE

SHEET METAL

MANUAL AIR BALANCING DAMPER

REDUCER

FLEXIBLE DUCT

ROUND DUCT

MOTOR OPERATED DAMPER
RUSKIN CD-60 OR EQUAL

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AUX	AUXILIARY
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
FSK	FOIL SCRIM KRAFT
HP	HORSEPOWER
HP	HEAT PUMP
Hz	HERTZ
IN	INCHES
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
NC	NOISE CRITERIA
NOM	NOMINAL
OA	OUTSIDE AIR
PD	PRESSURE DROP
Ph	PHASE
PTHP	PACKAGED TERMINAL HEAT PUMP
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SEN	SENSIBLE
SG	SUPPLY GRILLE
SP	STATIC PRESSURE (INCHES OF WATER)
TYP	TYPICAL
V	VOLTS
WB	WET BULB TEMPERATURE, DEG. °F
WG	WATER GAUGE

GENERAL NOTES

1. WHERE DUCTWORK, PIPING, OR ANY OTHER MECHANICAL EQUIPMENT IS INSTALLED ABOVE THE CEILING STRUCTURE, SUFFICIENT CLEARANCE SHALL BE PROVIDED BELOW ALL LOW POINTS OF THIS EQUIPMENT FOR THE INSTALLATION OF THE FINISHED CEILING AND ITS STRUCTURE AND ALL CEILING-MOUNTED EQUIPMENT INCLUDING CEILING-MOUNTED MECHANICAL EQUIPMENT, LIGHT FIXTURES, PLUMBING LINES, SPRINKLER HEADS, ETC. CLEARANCES REQUIRED FOR THE INSTALLATION OF THIS CEILING-MOUNTED EQUIPMENT SHALL BE VERIFIED AND COORDINATED WITH THE GENERAL CONTRACTOR AND ALL INVOLVED SUBCONTRACTORS BEFORE INSTALLING THE MECHANICAL EQUIPMENT.
2. WHERE SPACE IS LIMITED, SUCH AS IN FURRED CEILING SPACES AND CHASES, ROUTES AND CLEARANCES AND INSTALLATION PROCEDURES FOR DUCTWORK, PIPING, VALVES, AND OTHER MECHANICAL EQUIPMENT SHALL BE VERIFIED AND COORDINATED WITH OTHER WORK BEFORE EQUIPMENT IS INSTALLED.
3. ALL STRUCTURAL STEEL AND OTHER MATERIALS REQUIRED FOR OVERHEAD-SUSPENDED MECHANICAL EQUIPMENT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS DETAILED ON STRUCTURAL DRAWINGS. ALL NECESSARY REINFORCING IN BUILDING STRUCTURE SHALL BE PROVIDED BY GENERAL CONTRACTOR.
4. GRILLE AND OTHER EQUIPMENT MOUNTING HEIGHTS WHERE SHOWN ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR TO BOTTOM EDGE OF OPENING UNLESS OTHERWISE INDICATED.
5. MOUNT WALL SENSORS WITH SETPOINT ADJUSTMENT 5'-0" ABOVE FINISHED FLOOR.
6. IF ANY EQUIPMENT OTHER THAN THAT SHOWN OR SPECIFIED IS FURNISHED, THE CONTRACTOR SHALL VERIFY THAT THE EQUIPMENT CAN BE INSTALLED IN THE SPACE AVAILABLE, INCLUDING PASSAGE THROUGH DOORS AND ACCESS DOORS AND ACCESS TO THOSE PARTS OF THE EQUIPMENT REQUIRING SERVICE.
7. ALL DUCTWORK AND PIPING SHALL BE LOCATED ABOVE NEW OR EXISTING CEILING UNLESS NOTED OTHERWISE.
8. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5 FEET.
9. RUN CONDENSATE LINE FROM DRAINS ON AIR HANDLING UNITS AS INDICATED ON DRAWINGS. DRAINS SHALL BE SAME SIZE AS TAPPING ON UNIT EXCEPT NOT SMALLER THAN 1"ø.
10. WHERE EXTERNAL INSULATION IS SHOWN ON DUCTS CONTAINING INTERNAL INSULATION, THE THICKNESS OF THE EXTERNAL INSULATION MAY BE REDUCED BY THE THICKNESS OF THE INTERNAL INSULATION.
11. ALL INTERNAL INSULATION IN DUCTWORK SHALL BE PROTECTED AT UPSTREAM AND DOWNSTREAM EDGES BY MITERED OFFSETS IN DUCT. OFFSETS SHALL BE SAME AS THICKNESS OF INSULATION.
12. SEE SPECIFICATIONS FOR DESCRIPTION OF DUCTWORK INSULATION.
13. ALL AIR INTAKE AND DISCHARGE LOUVERS TO EXTERIOR WALLS OF THE BUILDING SHALL BE FURNISHED BY MECHANICAL CONTRACTOR.
14. ALL DUCTWORK SHOWN LINED SHALL HAVE 1/2" INTERNAL INSULATION. SEE SPECIFICATIONS.
15. OFFSET DUCTS AND PIPING WHERE NECESSARY TO CLEAR OTHER WORK SUCH AS BEAMS, PIPES, ELECTRICAL EQUIPMENT, ETC., COORDINATE DUCTWORK INSTALLATION WITH OTHER TRADES TO AVOID SPACE CONFLICTS.
16. ALL CEILING-MOUNTED DIFFUSERS AND GRILLES IN FURRED CEILING SHALL BE SYMMETRICALLY LOCATED WITH RESPECT TO LIGHTING FIXTURES. DO NOT SCALE DRAWINGS FOR LOCATIONS. COORDINATE EXACT LOCATIONS WITH ELECTRICAL CONTRACTOR AND REFER TO REFLECTED CEILING PLAN.
17. DUCT SIZES SHOWN ON PLANS INDICATE CLEAR INSIDE DIMENSIONS OF DUCTS, NOT INCLUDING ALLOWANCE FOR INTERNAL INSULATION.
18. WHERE ANY PART OF BUILDING IS CUT OR OTHERWISE DISFIGURED TO PERMIT INSTALLATION OF NEW EQUIPMENT, THIS PART OF BUILDING SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.
19. PROVIDE AND INSTALL ACCESS DOORS IN DRYWALL TO MATCH EXISTING FOR ACCESS TO ALL BALANCING DAMPERS AND NEW OR RELOCATED EQUIPMENT.
20. AIR-BALANCE REPORT SHALL ACCOMPANY A SET OF AS-BUILT PLANS INDICATING EXACT TO-SCALE LOCATIONS AND FINAL BALANCE AIR RATES. MAINTAIN A MINIMUM OF ONE INTACT SET OF PROJECT PLANS AND SPECIFICATIONS AT JOB SITE MARKED TO SHOW ALL DEVIATIONS PERMITTED DURING CONSTRUCTION AS THE WORK IS INSTALLED. ALL MARKS SHALL BE RED IN COLOR, COMPLETE, CLEAR AND LEGIBLE.

HVAC SPECIFICATIONS

1.0 GENERAL

1.01 THE CONTRACT DOCUMENTS APPLY TO THESE SPECIFICATIONS.

1.02 PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR THE WORK SHOWN ON THE DRAWINGS, WHICH INCLUDES REMOVAL OF EQUIPMENT AND COMPONENTS TO BE REMOVED AS WELL AS INSTALLATION OF HVAC SYSTEMS.

1.03 WORK SHALL MEET REQUIREMENTS OF LOCAL BUILDING CODES AND ORDINANCES, APPLICABLE REQUIREMENTS OF THE VUSBC AND NFPA.

1.04 SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

A. GRILLES, REGISTERS & DIFFUSERS
B. HEATING AND AIR CONDITIONING EQUIPMENT
C. INSULATION

1.05 PLACING IN SERVICE:

A. BEFORE BEING PLACED INTO OPERATION, ALL EQUIPMENT REQUIRING PREOPERATIONAL ATTENTION SHALL BE SERVICED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.

B. THIS SERVICING SHALL INCLUDE LUBRICATION, CONTROL CALIBRATIONS AND ADJUSTMENTS, AND TESTING AND ADJUSTING OF OPERATING CONTROLS.

C. AT THE COMPLETION OF PERFORMANCE TEST AND FOLLOWING APPROVAL OF TEST RESULTS, THE CONTRACTOR SHALL RECHECK ALL EQUIPMENT AND VERIFY THAT EACH ITEM IS FUNCTIONING CORRECTLY.

D. FURNISH ALL NECESSARY EQUIPMENT AND ASSUME ALL COSTS INVOLVED TO PERFORM ALL TESTING, CLEANING, AND BALANCING OPERATIONS REQUIRED.

E. TEST, ADJUST AND BALANCE ALL SYSTEMS UNTIL DESIGN FUNCTION AND OPERATION ARE ACHIEVED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT CONTRACTOR WHO SPECIALIZES IN THE PRACTICE OF TESTING, ADJUSTING AND BALANCING MECHANICAL EQUIPMENT AND SYSTEMS.

2.0 PRODUCTS

2.01 DUCTWORK:

A. DUCT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, THE NATIONAL FIRE PROTECTION ASSOCIATION AND MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE.

B. SYSTEMS AND MATERIALS: LOW VELOCITY A/C (GENERAL USE) GALVANIZED STEEL.

C. FITTINGS FOR ALL DUCT SYSTEMS SHALL BE OF THE SAME MATERIAL AS THE DUCT.

D. MATERIALS: GALVANIZED STEEL SHALL MEET REQUIREMENTS OF ASTM A-527, "STEEL SHEET, ZINC COATED BY THE HOT-DIP PROCESS, LOC-FORMING QUALITY." MANUAL DAMPER OPERATORS SHALL BE LOCKING TYPE AS MANUFACTURED BY VENTFABRICS, INC. OR YOUNG REGULATOR COMPANY.

E. FLEXIBLE AIR DUCT SHALL BE FLEXMASTER TYPE 8M INSULATED FLEXIBLE DUCT. THE COMPLETE DUCT SHALL CONFORM TO NFPA 90A AND BE LISTED BY UNDERWRITER'S LABORATORIES AS 181 CLASS 1 AIR DUCT.

F. JOINT AND SEAM SEALANTS SHALL BE UL CLASSIFIED WITH A FLAME-SPREAD RATING OF 25 OR LESS AND SMOKE-DEVELOPMENT RATING OF 50 OR LESS WHEN APPLIED TO GALVANIZED STEEL.

G. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE FOR BEAMS, CONDUITS, PIPING AND OTHER OBSTRUCTIONS OF THE BUILDING. WHERE NECESSARY TO AVOID OBSTRUCTIONS, THE DUCTS SHALL BE TRANSFORMED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED.

H. PROVIDE FLEXIBLE CONNECTIONS BETWEEN THE HVAC UNITS AND SHEET METAL DUCTWORK.

2.02 PIPE AND PIPE FITTINGS

A. COPPER TUBE TYPE ACR: ASTM B280.

B. PVC PIPE: SCH. 40, GRADE PVC 2116: ASTM D1785 AND ASTM D2241.

2.03 PIPING SYSTEM SHALL BE SUPPORTED IN ACCORDANCE WITH ANSI B31.1 "POWER PIPING" SO AS TO MAINTAIN REQUIRED PITCH OF LINES, PREVENT VIBRATION AND PROVIDE FOR EXPANSION AND CONTRACTION MOVEMENT.

2.04 PIPING SCHEDULE

SERVICE	SIZE	PIPE TYPE	FITTING TYPE	VALVE TYPE	VALVE MFG & NO
CONDENSATE DRAINS	ALL SIZES	SCH. 40 PVC			
REFRIGERANT	ALL SIZES	TYPE ACR CLEANED AND CAPPED	WROUGHT COPPER BRAZE		

2.05 INSULATION SCHEDULE

SERVICE	TYPE INSUL.	THICKNESS INCHES	FINISH IN CNCL. AREAS	FINISH IN FNSH AREAS	NOTES
(1) PIPING					
CONDENSATE	GLASS FIBER	1.0	INTEGRAL FIRE RETARDANT VAPOR BARRIER JACKET		
REFRIGERANT LOW TEMP, ALL SIZES	FLEXIBLE ELASTOMERIC	0.75	NONE	TWO COATS ARMAFLEX FINISH	
(2) DUCTWORK					
A/C SUPPLY, RETURN & OUTSIDE AIR	FLEXIBLE GLASS FIBER	1.5	FSK VAPOR BARRIER JACKET	LINE INTERNALLY WITH JOHNS MANVILLE SPIRACOUSTIC DUCT LINER FOR SPIRAL DUCT	1, 2

NOTES:

1. APPLY FLEXIBLE GLASS FIBER INSULATION IN CONCEALED AREAS ONLY.
2. APPLY RIGID INSULATION AT LOCATIONS WHERE DUCTS ARE SUPPORTED FROM BELOW.

3.0 EXECUTION

3.01 TEST FIELD-ASSEMBLED REFRIGERANT PIPING AND APPARATUS FOR ONE HOUR WITH DRY CARBON DIOXIDE OR NITROGEN, PLUS A SMALL AMOUNT OF REFRIGERANT. TEST PRESSURES SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD SAFETY CODE FOR MECHANICAL REFRIGERATION.

3.02 DUCT SYSTEMS SHALL BE BALANCED TO PROVIDE AIR QUANTITIES WITHIN TEN (10) PERCENT OF SPECIFIED REQUIREMENTS. FOR OUTLETS LESS THAN 75 CFM, THE TOLERANCE SHALL BE +/- TWENTY (20) PERCENT, UNLESS OTHERWISE NOTED.

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06/03/20

No.	Date	Issue Notes
1	060320	DD Progress
2		
3		
4		
5		
6		

No.	Date	Revision Notes	Zone	Appr

Designed By	CLS
Drawn By	ATE
Checked By	CLS
Reviewed By	CLS
Submitted By	
Project Manager	
Date	052920
Revision	Revision
Project ID	19679
Drawing Code	Drawing Code
CAD File Name	19679-sd-main-rz-051320
Plot Date	00/00/00

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Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
MECHANICAL
LEGEND, NOTES & SPECIFICATIONS

Scale

Drawing No.
M001
of

BUILDING 410 SCHEDULES

AIR DISTRIBUTION SCHEDULE

MARK	MODEL	NECK SIZE	MOUNTING	MATERIAL	COLOR	MAX NC	REMARKS
CD	SCDA	SEE PLANS	LAY-IN	STEEL	OFF-WHITE	30	1
RG-1	PDR	22 X 22	LAY-IN	STEEL	OFF-WHITE	30	1

REMARKS:
1. MODEL NUMBER BASED ON PRICE INDUSTRIES.

FAN SCHEDULE

MARK	MODEL	CFM	SP in Wg	WATTS/HP	SONES	DRIVE	V/Ph/Hz	REMARKS
EF-1								
EF-2								

REMARKS:

MISCELLANEOUS EQUIPMENT SCHEDULE

MARK	DESCRIPTION
AHU/HP-1	SPLIT SYSTEM HEAT PUMP
AHU/HP-2	SPLIT SYSTEM HEAT PUMP

BUILDING 414 SCHEDULES

AIR DISTRIBUTION SCHEDULE

MARK	MODEL	NECK SIZE	MOUNTING	MATERIAL	COLOR	MAX NC	REMARKS
CD	SCDA	SEE PLANS	LAY-IN	STEEL	OFF-WHITE	30	1
RG-1	PDR	22 X 22	LAY-IN	STEEL	OFF-WHITE	30	1

REMARKS:
1. MODEL NUMBER BASED ON PRICE INDUSTRIES.

FAN SCHEDULE

MARK	MODEL	CFM	SP in Wg	WATTS/HP	SONES	DRIVE	V/Ph/Hz	REMARKS
EF-1								
EF-2								

REMARKS:

MISCELLANEOUS EQUIPMENT SCHEDULE

MARK	DESCRIPTION
AHU/HP-3	SPLIT SYSTEM HEAT PUMP
AHU/HP-4	SPLIT SYSTEM HEAT PUMP

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06/03/20

No.	Date	DD Progress	Issue Notes
6	0/0/0/20		
5			
4			
3			
2			
1	06/03/20		

Date	0/0/0/20		
Revision	Revision		
Project ID	19079		
Drawing Code	Drawing Code		
CAD File Name	19079-cd-mechanical-20-1320		
Plot Date	00/00/00		
Project No	CLS	Drawn By	ATE
Checked By	CLS	Reviewed By	CLS
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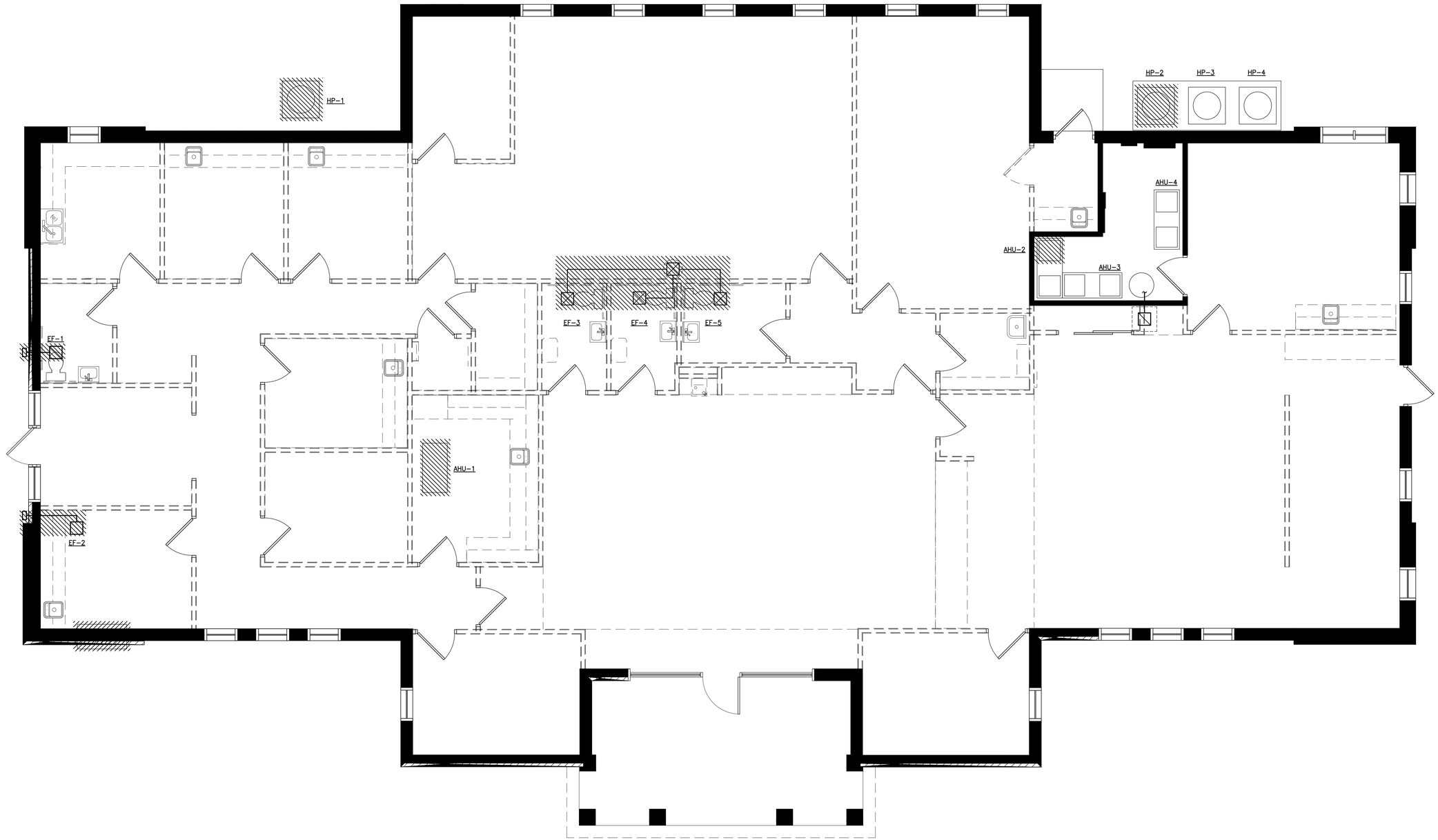
Drawing Title
MECHANICAL
EQUIPMENT SCHEDULES

Scale

Drawing No.
M002
of



BUILDING 410 MECHANICAL DEMOLITION PLAN

SCALE: 1/4"=1'-0"

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06/03/20

No.	Date	Issue Notes
1	06/03/20	DD Progress
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

Designed By	CLS	Date	05/29/20
Drawn By	ATE	Revision	Revision
Checked By	CLS	Project ID	19679
Reviewed By	CLS	Drawing Code	Drawing Code
Submitted By		CAD File Name	19679-sd-main-rz-051320
Project Manager		PLOT Date	00/00/00

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Project Title
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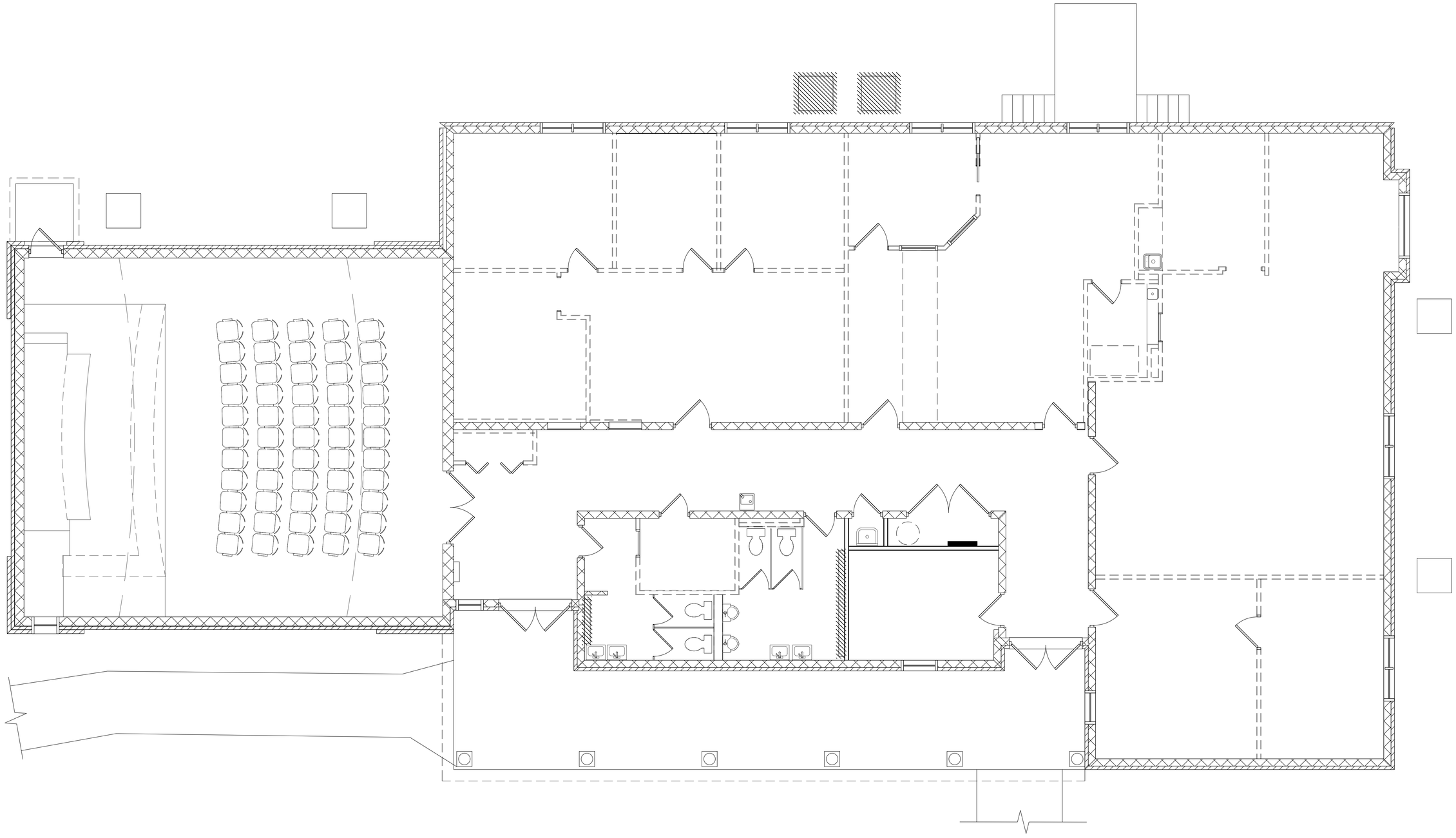
Drawing Title
BUILDING 410
MECHANICAL
DEMOLITION PLAN

Scale

Drawing No.
M101
of



BUILDING 414 MECHANICAL DEMOLITION PLAN

SCALE: 1/4"=1'-0"

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06/03/20

No.	Date	Issue Notes
1	06/03/20	DD Progress
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

Designed By	CLS	Date	05/2020
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Checked By	CLS	Project ID	19679
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Project Manager		PM Date	00/00/00

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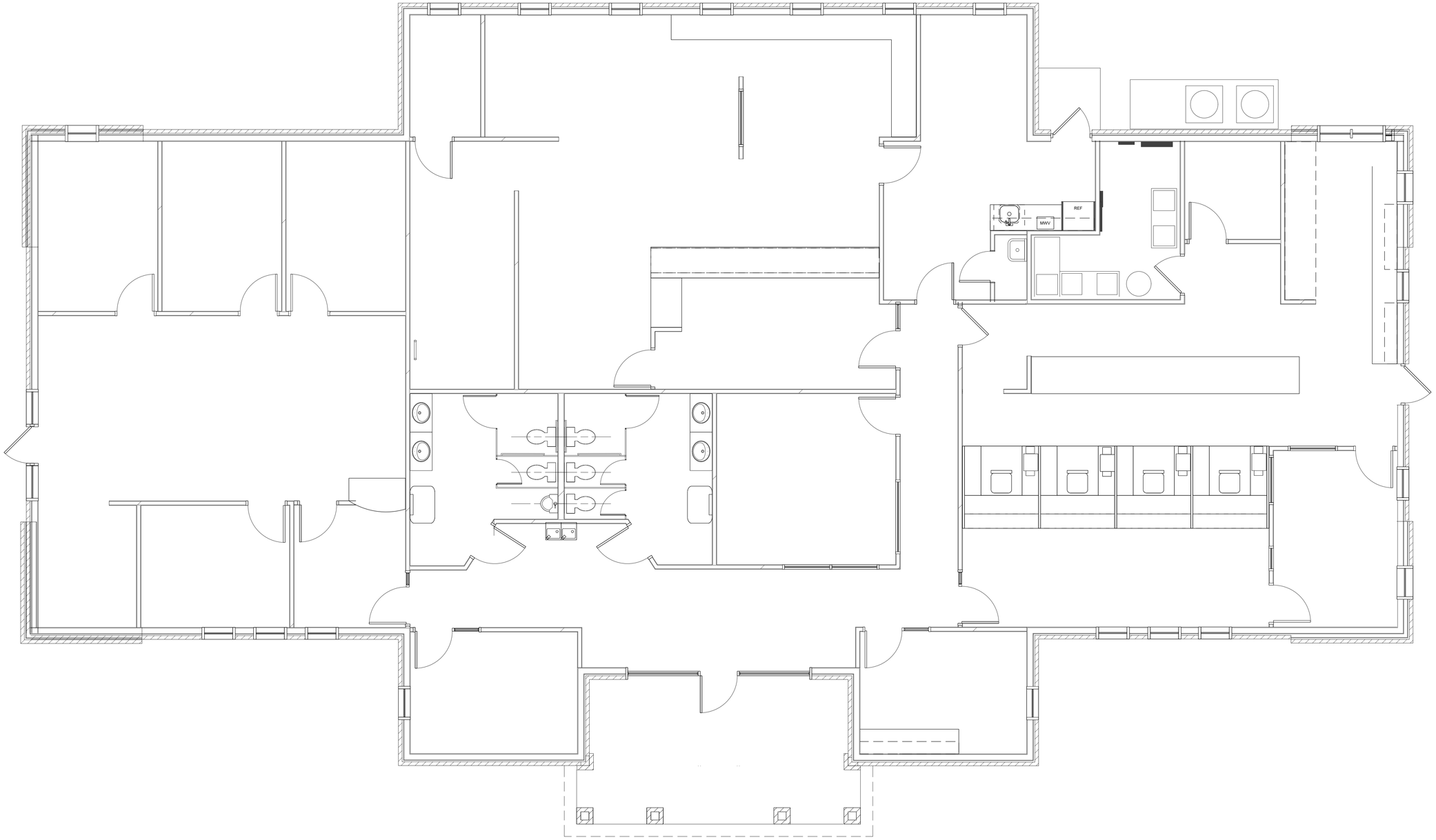
Drawing Title
BUILDING 414
MECHANICAL
DEMOLITION PLAN

Scale

Drawing No.
M102
of



BUILDING 410 MECHANICAL NEW WORK PLAN

SCALE: 1/4"=1'-0"

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06/03/20

No.	Date	Issue Notes
1	06/03/20	DD Progress
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

No.	Date	Revision Notes	Zone	Appr

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Drawn By: ATE
Checked By: CLS
Reviewed By: CLS
Submitted By: CLS
Project Manager:

Date: 05/2020
Revision: 6
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Drawing Code: Drawing Code
CAD File Name: 19679-sd-main-rz-051320
Plot Date: 00/00/00

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Project Title:
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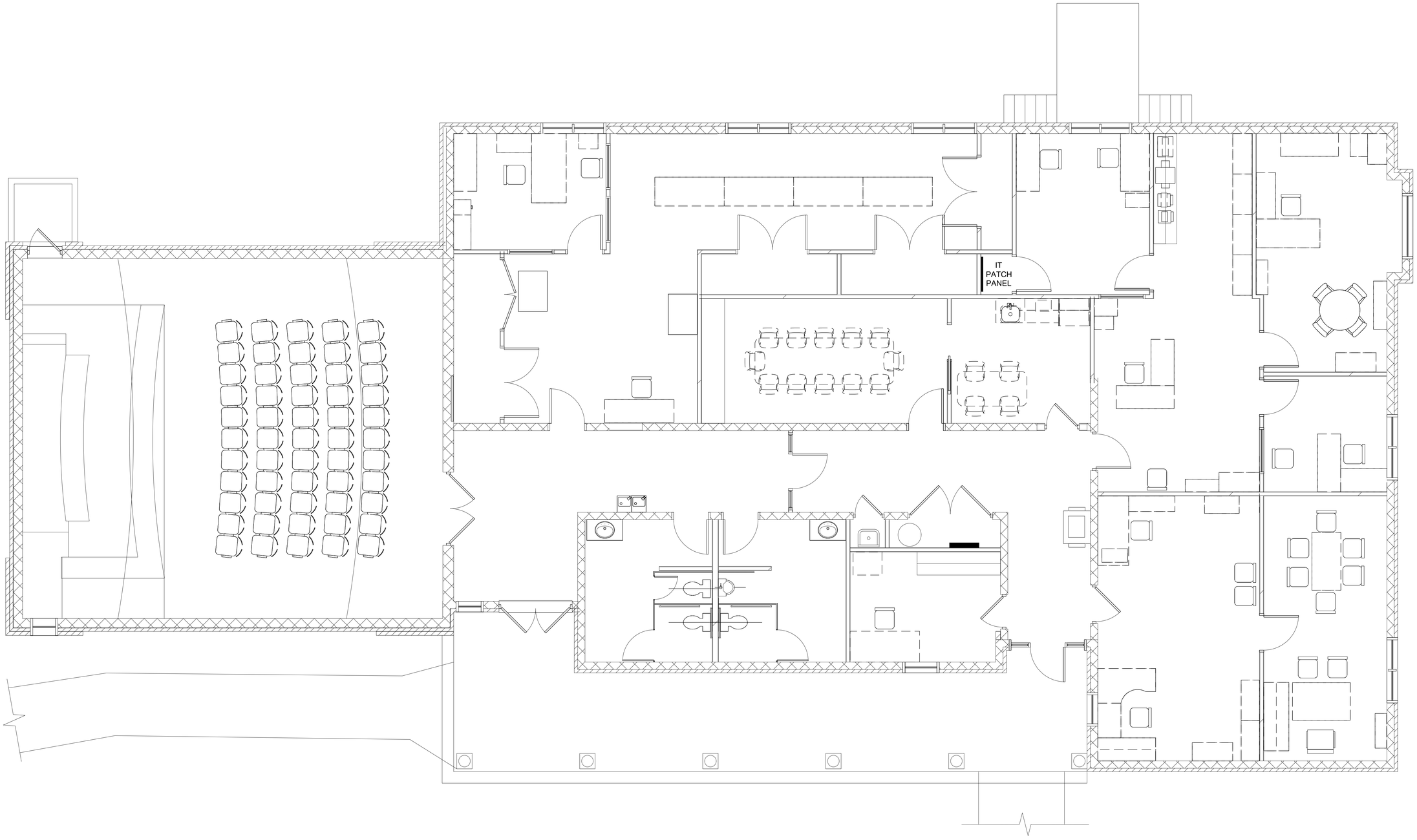
Drawing Title:
BUILDING 410
MECHANICAL
NEW WORK PLAN

Scale:

Drawing No.
M201
of



BUILDING 414 MECHANICAL NEW WORK PLAN

SCALE: 1/4"=1'-0"

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06/03/20

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1	060320	DD Progress

No.	Date	Revision Notes	Zone	Appr
2	-	-		
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4	-	-		
5	-	-		
6	-	-		

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Drawing Title
BUILDING 414
MECHANICAL
NEW WORK PLAN

Scale

Drawing No.
M202
of

ELECTRICAL LEGEND

- CONDUIT RUN EXPOSED
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
- CONDUIT RUN OUTDOORS, BELOW GRADE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CIRCUIT HOMERUN
- F — SAFETY SWITCH, FUSIBLE
- M — COMBINATION STARTER
- M — MANUAL STARTER
- J — JUNCTION BOX
- M — MOTOR
- 2'X4' RECESS TROFFER, NORMAL POWER : BATTER BACKUP
- 2'X2' RECESS TROFFER, NORMAL POWER : BATTER BACKUP
- LIGHT FIXTURE, WALL MOUNT, NORMAL POWER : BATTERY BACKUP
- RECESSED DOWNLIGHT, NORMAL POWER : BATTERY BACKUP
- LIGHT FIXTURE, SURFACE, PENDANT OR RECESSED MOUNT, NORMAL POWER : BATTERY BACKUP
- EXIT SIGN
- S — LIGHT SWITCH
- PC — PHOTO CELL
- OS — OCCUPANCY SENSOR
- B — BOND TO INDICATED OBJECT
- RECEPTACLE, DUPLEX NEMA 5–20R
- RECEPTACLE, QUADRUPLEX NEMA 5–20R
- RECEPTACLE, SIMPLEX NEMA 5–20R GFCI
- RECEPTACLE, DUPLEX NEMA 5–2R GFCI, WP INDICATES WEATHERPROOF
- COMMUNICATIONS OUTLET
- FLOOR RECEPTACLE, DUPLEX NEMA 5–20R
- FLOOR RECEPTACLE, DUPLEX NEMA 5–20R / COMMUNICATION OUTLET
- FLOOR RECEPTACLE, QUADRUPLEX NEMA 5–20R / COMMUNICATION OUTLET
- PLUGMOLD MULTI OUTLET STRIP
- GROUND ROD

ABBREVIATIONS

AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMPS	AMPERES
AT	AMP TRIP
BCSD	BARE COPPER SOFT DRAWN
C	CONDUIT
CONN	CONNECTED
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRIC METALLIC TUBE CONDUIT
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT–AMPERES
KW	KILOWATTS
L	LINE
LC	LIGHTING CONTACTOR
MCCB	MOLDED CASE CIRCUIT BREAKER
MIN	MINIMUM OR MINUTES
MOP	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
N, NEUT	NEUTRAL
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
P	POLE
PC	PHOTO CELL
PVC	POLYVINYL CHLORIDE CONDUIT
RMS	ROOT MEAN SQUARE
RSC	RIGID STEEL CONDUIT
SPECS	SPECIFICATIONS
SYM	SYMMETRICAL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
EWH	ELECTRIC WALL HEATER
DWH	DOMESTIC WATER HEATER

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER *	VOLTAGE	VA (MAX)	DRIVER	DESCRIPTION
A2	LITHONIA	2BLT2 20L ADSM LP840	120	16.1	2000 LUMEN LIGHT ENGINE	2X2 VOLUMETRIC, LOW PROFILE RECESSED LED TROFFER TROFFER
A4-30	LITHONIA	2BLT4 30L ADSM LP840	120	22.7	3000 LUMEN LIGHT ENGINE	2X4 VOLUMETRIC, LOW PROFILE RECESSED LED TROFFER TROFFER
A4-40	LITHONIA	2BLT4 40L ADSM LP840	120	31	4000 LUMEN LIGHT ENGINE	2X4 VOLUMETRIC, LOW PROFILE RECESSED LED TROFFER TROFFER
B2	LITHONIA	WL2 1200 LP840	120	12.2	1200 LUMEN LIGHT ENGINE	24" WALL MOUNT LED LIGHT FIXTURE
B4	LITHONIA	WL4 2000 LP840	120	18.7	2000 LUMEN LIGHT ENGINE	48" WALL MOUNUT LED LIGHT FIXTURE
C	LITHONIA	FEM L48 3000LM LPACL WD 40K 80CRI	120	18	1000 LUMEN LIGHT ENGINE	48" GENERAL PURPOSE ENCLOSED LED, SURFACE MOUNT
D	GOTHAM	EVO 40/1000 LS	120	9.6	1000 LUMEN LIGHT ENGINE	6" APERATURE DOWNLIGHT, SPECULAR FINISH
E	LITHONIA	WST LED P1 40K VF	120	14	1500 LUMEN LIGHT ENGINE	EXTERIOR SURFACE MOUNT LED WALL PACK
F	JUNO	T262L G2 40K 80CRI PDIM NFL	120	16	1669 LUMEN LIGHT ENGINE	CONIX II LED TRACK FIXTURE
F TRACK	JUNO	T - * - *	120	---	---	TRAC-MASTER, 1 CIRCUIT, 20 AMP TRACK SECTIONS
G	MARK	SL1ID LCB 2FT MSL2 90CRI 40K 1000LMF I90CRI I40K I200LMF BW	120		1000/200 DIRECT / INDIRECT LUMEN PER FT. LIGHT ENGINE	SLOT 1, 24" DIRECT / INDIRECT LINEAR PENDANT LED LIGHT FIXTURE. SUSPEND 6" BELOW FINISHED CEILING
H	MARK	SL1L LOP 2FT 90CRI 40K 1000LMF	120	18.9	1000 LUMEN PER FT LIGHT LIGHT ENGINE	SLOT 1, 24" RECESSED LINEAR LED LIGHT FIXTURE
X	LITHONIA	LE S R ELN SD	120	16.6	LED LIGHT ENGINE	LED EXIT SIGN

* CATALOG NUMBERS ARE NOT COMPLETE. FINISHES, MOUNTING ACCESSORIES, AND OTHER OPTIONS NECESSARY FOR A COMPLETE INSTALLATION MAY NOT BE INCLUDED.

TYPE "A2"

TYPE "A4"

TYPE "B2" & "B4"

TYPE "C"

TYPE "D"

TYPE "E"

TYPE "F"

TYPE "G"

TYPE "H"

TYPE "X"

GENERAL NOTES

1. COORDINATION WITH OTHER TRADES: EXECUTE THE WORK IN FULL COOPERATION WITH OTHER CONSTRUCTION TRADES. PRIOR TO STARTING WORK, EXAMINE A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR ALL TRADES TO VERIFY COORDINATION, CHECK FOR INTERFERENCES, AND DETERMINE POINTS OF CONNECTIONS FOR EQUIPMENT. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT OR PIPING INTERFERENCE, OR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN AN ALTERNATE MANNER FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING.
2. LOCATIONS WHERE CONDUITS PENETRATE FIRE–RATED WALLS, FLOORS, OR CEILINGS SHALL BE FIREPROOFED USING A UL–LISTED METHOD TO MAINTAIN THE EXISTING RATING.
3. BECAUSE EQUIPMENT SUPPLIED MAY HAVE CONNECTION POINTS DIFFERENT THAN SHOWN ON THE DRAWINGS, LOCATE CONDUIT RUNS AND LOCATIONS OF DISCONNECTS, CONTROL STATIONS AND THE LIKE BASED UPON SHOP DRAWINGS OF THE ASSOCIATED EQUIPMENT.
4. PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
5. FOR RECORD DRAWING REQUIREMENTS, REFER TO THE GENERAL CONDITIONS. MAINTAIN A DEDICATED SET OF DRAWINGS ON THE JOBSITE AND MARK ALL VARIATIONS TAKEN TO THE CONTRACT DRAWINGS.
6. DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO CHANGE IN CONTRACT PRICE.
7. IT IS THE INTENT OF THESE SPECIFICATIONS TO ESTABLISH QUALITY STANDARDS FOR ALL MATERIAL AND EQUIPMENT INCORPORATED IN THE WORK OF THIS DIVISION. ALL MATERIALS AND EQUIPMENT INSTALLED HEREUNDER SHALL BE NEW UNLESS INDICATED TO BE EXISTING, OR EXISTING AND RELOCATED.
8. WIRING AND ELEMENTARY DIAGRAMS FOR EQUIPMENT AS SHOWN ON THE DRAWINGS ARE BASED ON THE PRODUCT OF THE SPECIFIED EQUIPMENT MANUFACTURER AND ARE SHOWN FOR CONVENIENCE TO AID IN ESTIMATING THE EXTENT OF WORK INVOLVED. WIRE THE EQUIPMENT ACTUALLY INSTALLED AND CONNECT IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS CONFORMING TO DETAILS IN APPROVED WIRING DIAGRAMS FURNISHED BY THE EQUIPMENT MANUFACTURER. CONNECT ALL EQUIPMENT TO OPERATE IN A SAFE, PROPER AND EFFICIENT MANNER. NOTE THAT CONTROL CIRCUITRY IS NOT NECESSARILY SHOWN ON THE DRAWINGS. INSTALL IN CONDUIT BETWEEN THE POINTS AND DEVICES INDICATED ON THE DIAGRAMS.
9. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SUCH THAT PROPER WORKING CLEARANCES ARE MAINTAINED. WHERE THIS IS NOT POSSIBLE, CONSULT ENGINEER.

SHEET LIST

E001	LEGENDS, NOTES, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE
E010	LIGHTING FIXTURE CUTSHEETS
E011	LIGHTING FIXTURE CUTSHEETS
E200	BUILDING 410 FLOOR PLAN – LIGHTING
E201	BUILDING 414 FLOOR PLAN – LIGHTING
E300	BUILDING 410 FLOOR PLAN – POWER
E301	BUILDING 414 FLOOR PLAN – POWER

PROGRESS PRINT. NOT FOR CONSTRUCTION 6/2/20

No.	Date	Issue Notes
1	06/03/20	DD Progress
2		
3		
4		
5		
6		

Date: 06/03/20
Revision: Revision
Project ID: 19079
Project Title: Drawing Codes
CAD File Name: E01-59-581-DAC-ABBREVIAT
Plot Date: 2020/06/02

Drawn By: JHR
Scale By: JHR
Checked By: MGB
Reviewed By:
Approved By:
Project Manager:

Project Firm: Norman Smith Architecture
1341 H Street NE, Washington DC 20002
3537 Stable Mills Road, Sperryville, VA 22740
T 202.462.5808 www.normansmitharchitecture.com

Landscape:

MASTER MECHANICAL ENGINEERS
364 Lakeside Drive, Lynchburg, VA 24501
(434) 528-1700 (434) 528-1703

Project Title: COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title: LEGENDS, NOTES & ABBREVIATIONS

Scale:

Drawing No.: E001

of

LITHONIA LIGHTING®

Catalog Number	2BLT2 20L ADSM LP840
Notes	
Type	A2

DIGITAL NAVIGATION
Ordering Tree   nLight Platform   Controls   Photometrics   Performance Data

FEATURES & SPECIFICATIONS

INTENDED USE — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

CONSTRUCTION — Prior to fabrication, BLT components are coated with a proprietary paint blend and die-formed for dimensional consistency.

The BLT reflector is available in both smooth and ribbed finishes. For a ribbed finish, add RIB to the end of the product description. See the ordering tree below for additional detail.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with ribbed or a smooth frosted finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

Non-Configurable BLT: Generic 0-10 volt dimming driver. Dims to 10%

Configurable BLT: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing them to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless rIO and rES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive model app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

SENSOR— Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CL*AIR*ITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

INSTALLATION — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

BLT Series LED

2BLT2

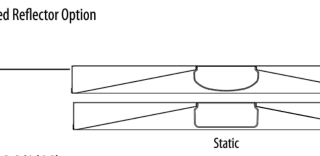
2' x 2'
LED

ADP Diffuser Option

Ribbed Reflector Option

Specifications
Length: 23-3/4 (60.3)
Width: 23-3/4 (60.3)
Depth: 2-3/8 (6.0)
Depth with Air supply/return: 2-3/4 (6.9)

All dimensions are inches (centimeters) unless otherwise specified.



Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LITHONIA LIGHTING®

Catalog Number	2BLT4 30L ADSM LP840 & 2BLT4 40L ADSM LP840
Notes	
Type	A4-30 & A4-40

DIGITAL NAVIGATION
Ordering Tree   nLight Platform   Controls   Photometrics   Performance Data

FEATURES & SPECIFICATIONS

INTENDED USE — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

CONSTRUCTION — Prior to fabrication, BLT components are coated with a proprietary paint blend and die-formed for dimensional consistency.

The BLT reflector is available in both smooth and ribbed finishes. For a ribbed finish, add RIB to the end of the product description. See the ordering tree below for additional detail.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with ribbed or a smooth frosted finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

Non-Configurable BLT: Generic 0-10 volt dimming driver. Dims to 10%

Configurable BLT: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intutitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

SENSOR— Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CL*AIR*ITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

INSTALLATION — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated.
DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

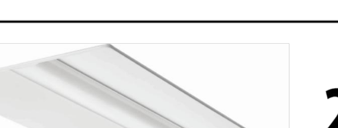
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

BLT Series LED

2BLT4

2' x 4'
LED

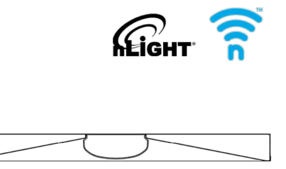


ADP Diffuser Option

Ribbed Reflector Option

Specifications
Length: 47-3/4 (121.2)
Width: 23-3/4 (60.3)
Depth: 2-3/8 (6.0)
Depth with Air supply/return: 2-3/4 (6.9)

All dimensions are inches (centimeters) unless otherwise specified.



Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LITHONIA LIGHTING®

Catalog Number	WL2 1200 LP840
Notes	
Type	B2

FEATURES & SPECIFICATIONS

INTENDED USE — For wall or ceiling mounting, vertical or horizontal. The WL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced wall-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Refractor is retained in die cast ends providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: End caps are post-painted in white polyester powder coat for smooth finish. Post-painted channel available by selecting PAF option.

OPTICS — Impact modified linear faceted refractor. Optically engineered for superior light distribution and maximum efficacy.

Crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000). The LEDs have a CRI of 82.

eldoLED driver options deliver choice of dimming range and choice for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

Optional nLight® embedded controls continuously monitor system performance and allow for constant lumen management function.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing energy waste created by the traditional practice of over-lighting.

SENSOR — Integrated sensor (individual control): Sensor Switch MSD7 (Passive Infrared (PIR)) integrated occupancy sensor photocell allows the luminaire to power off when the space is unoccupied. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): The sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired using CAT-5 cabling with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Interated Smart Sensor (nLight AIR Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

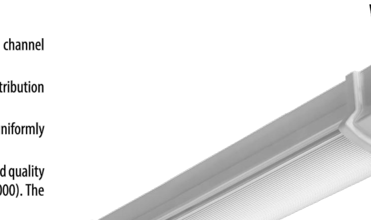
LISTINGS — CSA certified to meet U.S. and Canadian standards. Suitable for damp location (excluding sensor option).

Patents pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

W SERIES
Wall bracket & Surface Mount LED



WL2

2'
LED

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks when ordered with drivers marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LITHONIA LIGHTING®

Catalog Number	WL4 2000 LP840
Notes	
Type	B4

FEATURES & SPECIFICATIONS

INTENDED USE — For wall or ceiling mounting, vertical or horizontal. The WL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced wall-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Refractor is retained in die cast ends providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: End caps are post-painted in white polyester powder coat for smooth finish. Post-painted channel available by selecting PAF option.

OPTICS — Impact modified linear faceted refractor. Optically engineered for superior light distribution and maximum efficacy.

Crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000). The LEDs have a CRI of 82.

eldoLED driver options deliver choice of dimming range and choice for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

Optional nLight® embedded controls continuously monitor system performance and allow for constant lumen management function.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing energy waste created by the traditional practice of over-lighting.

SENSOR — Integrated sensor (individual control): Sensor Switch MSD7 (Passive Infrared (PIR)) integrated occupancy sensor photocell allows the luminaire to power off when the space is unoccupied. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): The sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired using CAT-5 cabling with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Interated Smart Sensor (nLight AIR Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

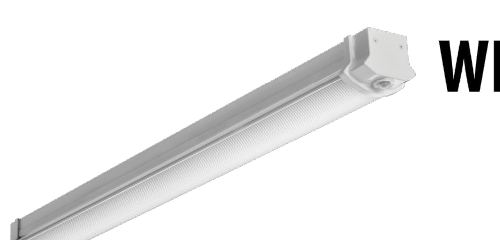
LISTINGS — CSA certified to meet U.S. and Canadian standards. Suitable for damp location (excluding sensor option).

Patents pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

W SERIES
Wall bracket & Surface Mount LED



WL4

4'
LED

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks when ordered with drivers marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LITHONIA LIGHTING®

Catalog Number	FEM L48 3000LM LPACL WD 40K 840CRI
Notes	
Type	C

FEATURES & SPECIFICATIONS

INTENDED USE — A general purpose and energy-efficient surface-mounted or suspended LED fixture, suitable for wet, damp and/or cold locations. For vapor-tight demanding environments where moisture or dust is a concern and where relatively low fixture mounting heights and wide fixture spacing are common. Typical applications include industrial facilities, parking garages, retail malls, multi-purpose rooms, garden centers, and food processing. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable use.**

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

CONSTRUCTION — One-piece 5VA fiberglass housing with integral perimeter channel utilizing continuous poured-in-place NEMA 4X gasket. Approved as a wireway and for through wiring. Captive polymeric latches are standard. Stainless steel latches (#316) available as an option for food processing or more demanding applications.

Power connection is easily accomplished through pre-drilled holes. Fixture easily mounts to ceilings and other solid structures, or can be suspended with chain, cable or rod using stainless steel mounting brackets (included).

OPTICS — Injection molded, acrylic lens (.080" thick) provides high impact-resistance comparable to 100% DR. A UV stabilized polycarbonate diffuser is available (.080" thick) in clear or frosted for additional impact strength where vandal protection is desired.

Expected service life of 60,000 hours at 80% lumen maintenance (L80); predicted life of more than 100,000 hours.

ELECTRICAL — Utilizes high-efficiency LEDs mounted to core circuit boards. High-efficiency drivers operate 120-277 (MVOLT) and 347-480 (HVOLT) offered with 0-10 volt dimming. Standard Luminaire Surge Protection Level: 6kV/3kA Surge Rated per ANSI C82.77-5-2015.

INSTALLATION — Fixture can be surface or suspended mounted. Pre-punched stainless steel mounting brackets are included (two per luminaire) for easy field-attachment of bolts, screws and other mounting hardware. A covered ceiling is not required to maintain wet location listing or IP rating.

LISTINGS — CSA Certified to UL and C-UL Standards. Suitable for wet location. Covered ceiling not required to maintain wet location listing or IP ratings. IP65,IP66, IP67 rated and certified to meet NSF Splash Zone 2. NEMA 4X rated. Sensors maintain IP65 and IP66 only. See chart on page 5 for Ambient Temperatures. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

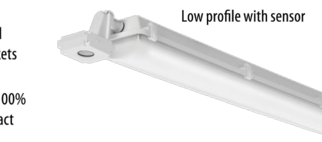
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

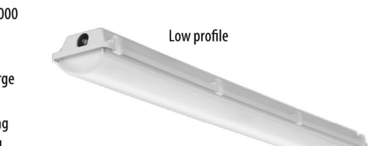
Low-Profile Enclosed and Gasketed Industrial

FEM LED

SURFACE/ SUSPENDED MOUNT



Deep Lens



Low profile with sensor

Low profile

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
FEM L48 4000LM LPAFL MD MVOLT GZ10 40K 80CRI	**FEM L48 4L MVOLT**
FEM L48 4000LM LPAFL MD MVOLT GZ10 50K 80CRI	**FEM L48 4L MVOLT 5K**

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

gotham®

Luminaire Type: D
Catalog Number (autopopulated): EVO 40/1000 LS

Gotham Architectural Downlighting
LED Downlights

6" Evo®
Downlight

Solid-State Lighting

FEATURES

OPTICAL SYSTEM
- Self-flanged or flangeless semi-specular, matte-diffuse or specular finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine

MECHANICAL SYSTEM
- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C
- Light engine and driver accessible through aperture
- Injection molded mud ring includedwith flangeless trims. Ships separately. Installs independently of the mounting frame to reduce cracks in plaster due to vibration.

ELECTRICAL SYSTEM
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

LISTINGS
- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling. ENERGY STAR® certified product.

WARRANTY
- 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

ORDERING INFORMATION

A+ Capable options indicated by this color background.

EXAMPLE: EVO 35/10 6AR MWD LSS MVOLT EZ1

Series	Color temperature	Nominal lumen values	Aperture/Trim color	Trim Style	Distribution	Finish	Voltage
EVO	**27/** 2700 K	**10** 1000 lumens	**6AR** Clear	(blank) Self-flanged	**VND** Very narrow (0.5 s/mh)	**LSS** Semi-specular	**MVOLT**
	30/ 3000 K	**15** 1500 lumens	**6PR** Pewter	**FL** Flangeless	**ND** Narrow (0.7 s/mh)	**LD** Matte-diffuse	**120**
	35/ 3500 K	**20** 2000 lumens	**6WTR** Wheat		**MD** Medium (0.9 s/mh)	**LS** Specular	**277**
	40/ 4000 K	**25** 2500 lumens	**6GR** Gold		**MWD** Medium wide (1.0 s/mh)		**347**[2]
	50/ 5000 K	**30** 3000 lumens	**6WR**[1] White		**WD** Wide (1.2 s/mh)		
		35 3500 lumens	**6BR**[1] Black				
		40 4000 lumens	**6WRAMF**[1] White anti-microbial				
		45 4500 lumens					

Driver[3]	
EZ10	eldoLED 0-10V ECOdrive. Linear dimming to 10% min.
EZ1	eldoLED 0-10V ECOdrive. Linear dimming to 1% min.
EZB	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.
EDAB	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.
EDXB	eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual.
EXA1	XPoint Wireless, eldoLED 0-10V ECOdrive. Linear dimming to 1%. Refer to XPoint tech sheet.
EXAB	XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.
ECOS2[4,5]	Lutron® Hi-Lume® 2-wire forward-phase driver. Minimum dimming level 1%. Minimum lumen 1000/Maximum lumen 3000.
ECOS3[4]	Lutron® Hi-Lume® 3-wire or EcoSystem® dimming driver. Minimum dimming level 1%. Minimum lumen 1000/Maximum lumen 4500.

Options			
SF	Single fuse. Specify 120V or 277V.	**BGTD**	Bodine generator transfer device. Specify 120V or 277V.
TRW[6]	White painted flange	**CRI90**	High CRI (90+)
TRBL[7]	Black painted flange	**CP**[10]	Chicago plenum. Specify 120V or 277V.
EL[8]	Emergency battery pack with integral test switch	**RRL__**	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature.
ELR[8]	Emergency battery pack with remote test switch		
NPS80EZ[5]	nLight® dimming pack controls 0-10V eldoLED drivers.		
NPS80EZER[5,9]	nLight® dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit.		

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gotham®

WST LED
Architectural Wall Sconce

Catalog Number	WST LED P1 40K VF
Notes	
Type	E

Hit the Tab key or mouse over the page to see all interactive elements.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

See ordering tree for details.

A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

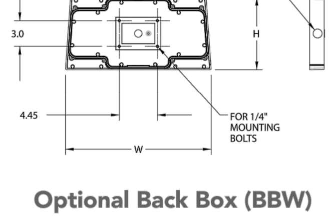
Specifications

Luminaire

Height: 8-1/2" *(21.59 cm)*
Width: 17" *(43.18 cm)*
Depth: 10-3/16" *(25.9 cm)*
Weight: 20 lbs *(9.1 kg)*

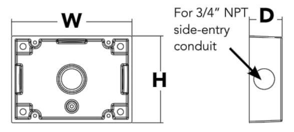
Optional Back Box (PBBW)

Height: 8.49" *(21.56 cm)*
Width: 17.01" *(43.21 cm)*
Depth: 1.70" *(4.32 cm)*



Optional Back Box (BBW)

Height: 4" *(10.2 cm)*
Width: 5-1/2" *(14.0 cm)*
Depth: 1-1/2" *(3.8 cm)*



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PROGRESS PRINT.
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6/2/20

No.	Date	Revision Notes	Zone	Appr

No.	Date	Issue Notes
1	060320	DD Progress
2	.	.
3	.	.
4	.	.
5	.	.
6		

Date	060320
Revision	Revision
Project ID	19679
Drawing Code	Drawing Code
CAD File Name	E010 558-1387 LIGHT FIXTURE CUTS.DWG
Plot Date	2020/06/02
Designed By	JHR
Drawn By	JHR
Checked By	MGB
Reviewed By	
Submitted By	
Project Manager	

Design Firm
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Consultant
MASTER ENGINEERS & DESIGNERS
904 Lakeside Drive, Lynchburg, VA 24501
434-846-1350 Fax: 434-846-1351
558-1387

Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
LIGHTING FIXTURE CUTSHEETS

Scale

Drawing No.
E010
of

D1.3.39G2

JUNO

Project: 558-1387

Fixture Type: F

Location:

Contact/Phone:

TRAC-MASTER®

Avant Garde

16W CONIX® II LED

T262L

PRODUCT DESCRIPTION

The sleek sculpted aesthetic of the Conix II LED fixtures is unparalleled in the industry. Their elegance is carried through the entire design for a fresh, contemporary appeal. The 16W Conix II LED fixtures have integral reflectors which enable uniform spot, flood or narrow flood distributions to be achieved. These lampholders have an integral, bayonet-mounted accessory holder that accommodates up to two accessories if desired in place of the clear glass lens provided. The 16W Conix II LED can deliver up to 1675 lumens, utilizing less than 1/3 of the energy of halogen equivalents and having a rated life of 50,000 hours. Available in 2700K, 3000K, 3500K and 4000K color temperatures, the white-light 16W Conix II LED is compatible with all Juno line voltage trac and standard adapter accessories.

PRODUCT SPECIFICATIONS

Construction All-metal housing and custom designed concealed heat sink provides outstanding thermal management, yielding 70% average lumen maintenance at 50,000 hours of operation • Passively-cooled design – no moving parts to break or wear-out • Extruded aluminum vertically mounted LED driver housing • Concealed fixture wiring for a clean aesthetic • Fashionable, elegant design complements any decor • Available in white, black and silver painted finishes.

LED High performance LED array provides outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K white phosphor high performance LEDs • Chromaticity range within a 3-step MacAdam Ellipse • 80 CRI minimum on standard product • Optional high CRI versions offer 90 CRI or 97 CRI minimum.

Driver Assembled in a side-mount vertical housing to minimize overall fixture footprint • Insulating air gap between driver and LED light engine optimizes thermal operation • Provides quiet operation with or without dimming • 120V fixtures are dimmable using high quality reverse phase ELV dimmers approved by Juno – see D1.3.39G2-DIM • Solid state electronic, Class 2 compliant • Integral overcurrent and short circuit protection • Class B FCC Part 15 rated.

Reflector Precision designed custom reflector provides either spot, narrow flood or flood beam distributions • Faceted/dimpled reflector ensures a properly color-mixed beam • Accessory reflectors available to convert from one beam distribution to another in the field.

Juno Universal Trac Adapter Universally compatible with both Trac-Master 1-circuit or 2-circuit trac, Trac-Lites trac, monopoints and special mountings • Also UL Recognized for use on ConTech® LT Series track • Copper alloy contacts provide precise spring action – no arcing and will not take a set • True, positive electrical ground • On /off switch included • Patented embossed polarity arrows on bottom of adapter • Spring-loaded positive latch with embossed polarity arrows secures trac light to trac • Two-position power contact provided for two-circuit application.

Alternate TEK/HTEK Trac Adapter Compatible with either Juno TEK or HTEK trac systems • System specific and assembled to trac fixture • Integrally polarized construction to prevent reverse installation – only allows insertion in proper orientation • Rotary circuit selector enables simple switching between circuits • Integral on/off switch enables individual fixtures to be switched for servicing.

Alternate GTYPE Trac Adapter Compatible with track systems based on GES type track, including Lithonia LT Commercial Track (not LTS type) • System specific and assembled to trac fixture • Consult factory for additional information.

Alternate HTYPE Trac Adapter Compatible with track systems which use a H-type track adapter, including Lithonia LTS Decorative Track (not LT type) • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Consult factory for additional information.

Alternate LTYPE Trac Adapter Compatible with track systems which use a L-type track adapter • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Consult factory for additional information.

Accessory Holder Integral to fixture design • Die cast aluminum construction • Precision bayonet mounting • Accommodates up to two accessories if desired.

Aiming 360° horizontal coverage • Greater than 90° vertical aiming capability.

Labels UL and C-UL Listed • ENERGY STAR® certified • DesignLights Consortium® Qualified • Union made • Assembled in U.S.A.

Warranty 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Specifications subject to change without notice.

ConTech is a registered trademark of ConTech Lighting.

D1.1.0

JUNO

Project: 558-1387

Fixture Type: F-TRACK

Location:

Contact/Phone:

TRAC-MASTER®

One Circuit Trac System

TRAC SECTION, JOINERS & FEEDS

T Series

PRODUCT DESCRIPTION

Low-Profile, single-circuit trac sections for surface or pendant mounting. I-beam cross section provides added strength and rigidity in pendant suspended applications. Compatible with a full range of feed, connector and mounting accessories, as listed on back of this page, to complete virtually any installation requirement. Accepts all Trac-Master and Trac-Lites trac fixtures.

PRODUCT SPECIFICATIONS

Construction Extruded aluminum "I" beam channel • One-piece thermoplastic insulator • Injection molded polycarbonate dead-end with set screw • Standard lengths may be cut-to-length by installer.

Electrical Two 12 gauge solid copper conductors • Rated 20 amps at 120 volts • Aluminum channel used as system ground • One-piece insulator insures consistent conductor spacing for reliable electrical contact • Insulating bushings supplied at mounting hole locations to prevent shorts to ground.

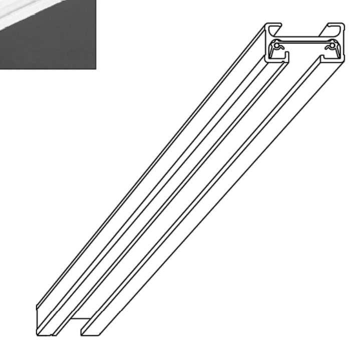
Labels UL listed, CSA certified.

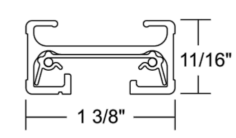
PRODUCT INSTALLATION

Debossed polarity line provides visual cue to proper trac, trac connector and fixture alignment • Supplied with toggle bolts for surface mounting • Integral raceway in top of channel accommodates pendant mounting hardware and wire routing to electrical feed • Insulator stays same length as extrusion to simplify field-cutting of trac • Connectors and feeds simply push into trac sections.

Specifications subject to change without notice.

DIMENSIONS





ORDERING INFORMATION

Example: T 8FT WH

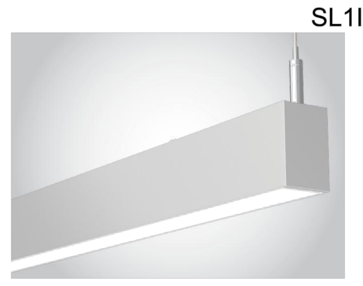
Series	Length	Finish
T Trac-Master 1-Circuit Track Sections	**2FT** 2-foot track section; actual length 19-7/8" **4FT** 4-foot track section; actual length 43-7/8" **6FT** 6-foot track section; actual length 67-7/8" **8FT** 8-foot track section; actual length 91-7/8" **12FT** 12-foot track section; actual length 139-7/8"	**BL** Black **NAT** Natural **SL** Silver **WH** White

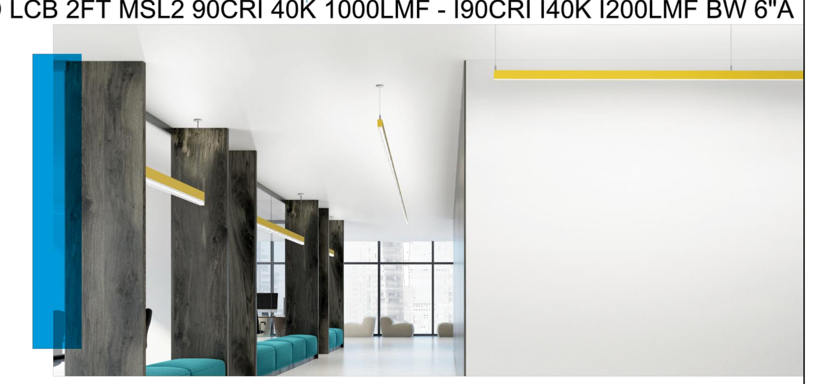
MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS TYPE: G

PROJECT:

SL1ID LCB 2FT MSL2 90CRI 40K 1000LMF - I90CRI I40K I200LMF BW 6"A





SLOT 1

DIRECT/INDIRECT PENDANT

HIGHLIGHTS

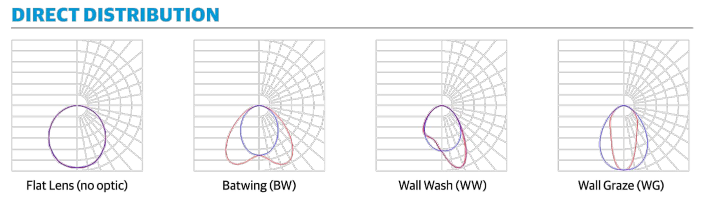
- 600 to 2200 lumens per foot
- Up to 143 Lumens per Watt
- 4 direct distributions: Lambertian, Batwing, Wall Wash or Wall Graze
- 2 indirect distributons: Lambertian, Batwing
- Multiple lens treatment options include drop and edge view
- Shielding provided by integrated deep cell quiet ceiling baffle
- Flicker free dimming to dark (0.01%) enabled by Modulus power and control architecture with integrated digital nLight® module for system networking
- Total System Integration features 5-year limited warranty by Acuity Brands, covers all components and construction

FIXTURE PERFORMANCE

	Direct					Indirect				
Nominal Lumens/Foot	200LMF	400LMF	600LMF	800LMF	1000LMF	I400LMF	I600LMF	I800LMF	I1000LMF	I1200LMF
Delivered Lumens/Foot	240	370	550	750	935	425	635	865	1075	1275
Input Watts/Foot	2.06	3.27	5.08	7.27	9.45	2.51	3.9	5.43	7.05	8.92
Lumens/Watt	117	113	108	103	99	169	163	159	153	143

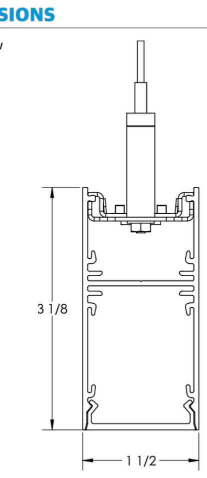
Based on a 4ft 35K fixture with standard lambertian distribution

DIRECT DISTRIBUTION

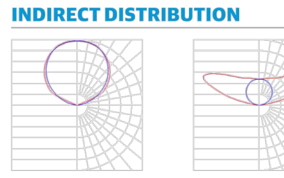


DIMENSIONS

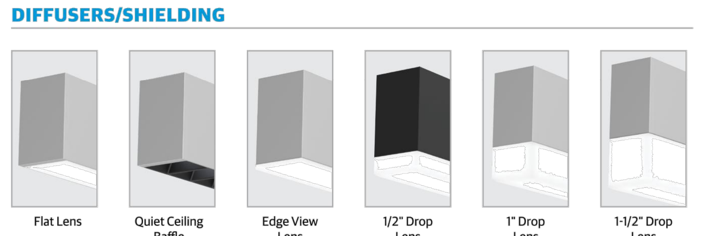
Section View



INDIRECT DISTRIBUTION



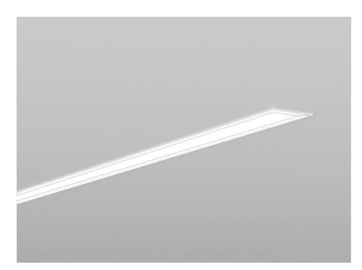
DIFFUSERS/SHIELDING

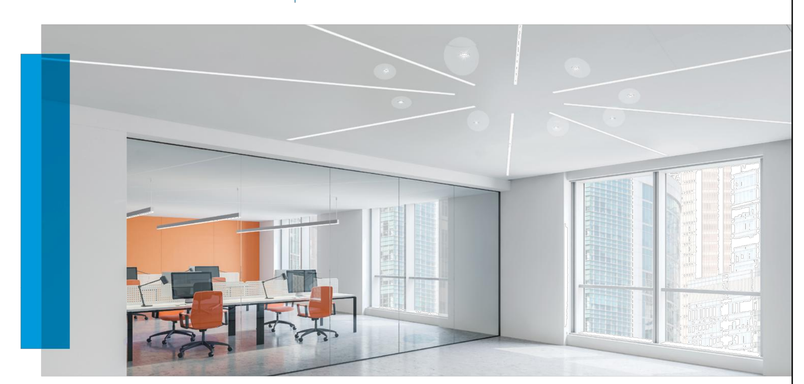


MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS TYPE: G

PROJECT: 558-1387





SLOT 1

RECESSED

HIGHLIGHTS

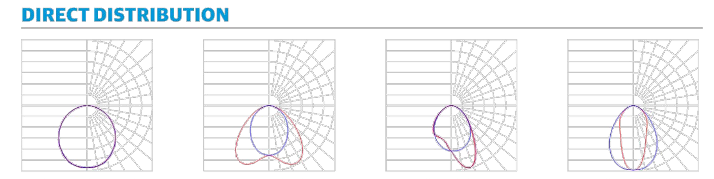
- 200 to 1000 lumens per foot
- Up to 117 Lumens per Watt
- Flush or regressed lens
- Four distributions: Lambertian, Batwing, Wall Wash or Wall Graze
- Multiple lens treatment options include drop and edge view
- Shielding provided by integrated deep cell quiet ceiling baffle
- Flicker free dimming to dark (0.01%) enabled by Modulus power and control architecture with integrated digital nLight® module for system networking
- Total System Integration features 5-year limited warranty by Acuity Brands, covers all components and construction

FIXTURE PERFORMANCE

Nominal Lumens/Foot	200LMF	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens/Foot	240	370	550	750	935
Input Watts/Foot	2.06	3.27	5.08	7.27	9.45
Lumens/Watt	117	113	108	103	99

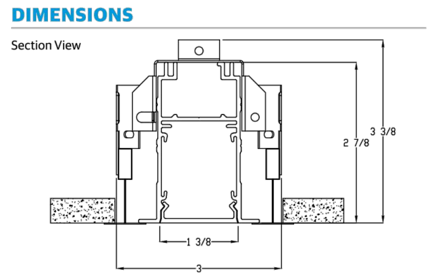
Based on a 4ft 35K fixture with standard lambertian distribution

DIRECT DISTRIBUTION

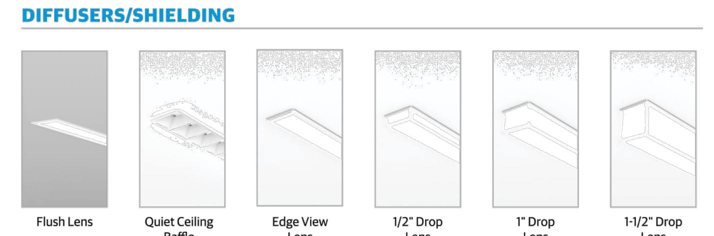


DIMENSIONS

Section View



DIFFUSERS/SHIELDING



LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

Signature®

Die-Cast Aluminum Exits

LE and LRE

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring attractive die-cast aluminum signage, superior illumination and low energy consumption.

CONSTRUCTION — Precision-molded, die-cast aluminum construction — ultra-slim, compact housing. Fine-grain brushed aluminum faceplate with matte black electrostatic polymeric trim. Clear lacquer finish on brushed face inhibits fingerprints and other surface contaminants.

All electronics located inside housing.

Fully overlapping light seal prevents light leaks. Universal directional chevron knockouts are completely concealed and easily removed. Hinged faceplate and spring latches for easy lamp compartment access, no exposed hardware.

Letters 6" high with 3/4" stroke, with 100 ft viewing distance rating, based upon UL924 standards.

U.S. Patent No. 5,739,639, 5,954,423 and 6,502,044. Canada Patent No. 2,204,218. Other patents pending.

OPTICS — Lamp is constructed using new LED technology. Provides perfectly uniform illumination to meet 3/4" letter stroke required by code.

The typical life of the exit LED lamp is 10 years, based on continuous operation. Unique LED lamp platform accommodates both single-face and double-face exits.

Low energy consumption — red exit consumes std .81W, 1.3W (120V), green exit consumes std is 1W, 1.5W (120V). Universal input voltage capabilities (120V through 277V, 50 or 60 HZ).

ELECTRICAL — Solid-state electronic elements to eliminate risk of electromechanical failures.

Surge protection meets ANSI/IEEE C62.41 category B and IEC 1000 immunity standards for high voltage surges, electrostatic discharges, high frequency electrical fast transients and line voltage dips/swells.

Emergency Operation (for EL N option only): Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90 minutes capacity to lamp.

Self-diagnostics (SD option only): Two-state constant-current charger maximizes battery life and automatically recharges after battery discharge. Test switch provided for manual testing.

Self-diagnostic testing for five minutes every 30 days, 30 minutes at 180-day interval, and 90 minutes annually.

Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition.

Continuously monitors AC functionality.

Low voltage disconnect prevents excessive deep discharge that can permanently damage the battery.

Single-point microcomputer control for all electronic features.

Crystal oscillator timing system with watchdog protection for precision accuracy.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

INSTALLATION — Universal mounting (top, end or back). Double face available with top or end mounting only. LRE: Trim ring has 3/4" depth adjustment to ensure a flush fit against the surface. Protrudes 1/10" from the surface. No exposed hardware.

Die-cast aluminum canopy provided for surface mount only.

LISTINGS — UL damp location listed 50°F - 104°F (10°C - 40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. North Carolina Department of Insurance. NEMA Premium certified.

WARRANTY — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Note: Specifications subject to change without notice.

ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Example: LE S 1 R EL N SD

Series	Face type	Housing color	Number of faces	Letter color	Input voltage	Operation	Options
LE LED, surface mount **LRE** LED, recessed	**S** Stencil P Panel [1]	**(blank)** Matte black, brushed aluminum face BZ Dark bronze **W** White B Matte black	**1** Single face **2** Double face [2]	**R** Red **G** Green	**(blank)** Universal input voltage (120-277V, 50 or 60 HZ)	**(blank)** AC only EL N Nickel-cadmium battery back-up X2 Lamp wired on two separate AC circuits [3]	(blank) None TP Two tamper proof Torx-head screws VR Vandal-resistant shield (1/8" thick polycarbonate) [4] FI FA Field selectable fire alarm interface or flashing emergency operation with intermittent audible alarm (one flash per minute) [5] FI Fire alarm flashing interface [6] FA Flashing emergency operation and intermittent audible alarm [7] SD Self-diagnostics [7]

Accessories: *Order as separate catalog number.*

ELA US12	12" stem kit (see spec sheet ELA-StemKits) [2,8]	ELA LEHO 120/277 N	Remote-capable exit with black canopy; provides 90 minutes of 11.1W capacity for remote head (see spec sheet ELA-LEHO) [2,8]
ELA WG1	Back-mount wire guard (see spec sheet ELA-WG) [2]	ELA ERK	Recess mounting rough-in kit for LRE only (see spec sheet ELA-ERK)
ELA WGEXT	Top-mount wire guard (see spec sheet ELA-WG) [2]		
ELA WGEXE	End-mount wire guard (see spec sheet ELA-WG) [2]		

Notes
1. Panel face available for special wording only (see Custom Signage spec sheet).
2. Not available with LRE models.
3. UL Listed as emergency lighting.
4. VR contains tamper proof screws.
5. Available with SD option only.
6. Available with AC only or EL N operation only.
7. Available with EL N option only.
8. Add W for white.

PROGRESS PRINT. NOT FOR CONSTRUCTION 6/2/20

No.	Date	Issue Notes
1	060320	DD Progress
2	.	.
3	.	.
4	.	.
5	.	.
6	.	.

No.	Date	Revision Notes	Zone	Appr

Designed By: JHR | Drawn By: JHR | Checked By: MGB | Reviewed By: | Submitted By: | Project Manager:

Date: 060320 | Revision: Revision | Project ID: 19679 | Drawing Code: Drawing Code | CAD File Name: E010 558-1387 LIGHT FIXTURE CUTS.DWG | Plot Date: 2020/06/02

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Project Title: COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title: LIGHTING FIXTURE CUTSHEETS

Scale

Drawing No. E011 of

NOTES (SHEET E200)

1. REPLACE EXISTING FIXTURE AT SAME LOCATION WITH NEW FIXTURE TYPE DESIGNATED.

FLOOR PLAN - LIGHTING

SCALE: 1/4"=1'-0"

PROGRESS PRINT. NOT FOR CONSTRUCTION 6/2/20

4' 0' 4' 8'
1/4" = 1'-0"
GRAPHIC SCALE

No.	Date	Issue Notes	No.	Date	Revision Notes	Zone	Appr
1	06/03/20	DD Progress					
2							
3							
4							
5							
6							

Designed By: JHR
Date: 06/03/20
Drawn By: JHR
Revision: 1
Checked By: MGB
Project ID: 19879
Reviewed By:
Drawing Code: Drawing Code
Submitted By:
CAD File Name: E200.0SS-DB1BLDG410-LIGHTING.DWG
Project Manager:
Plot Date: 2020/06/02

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Project Title: COUNTY OF MADISON, VIRGINIA
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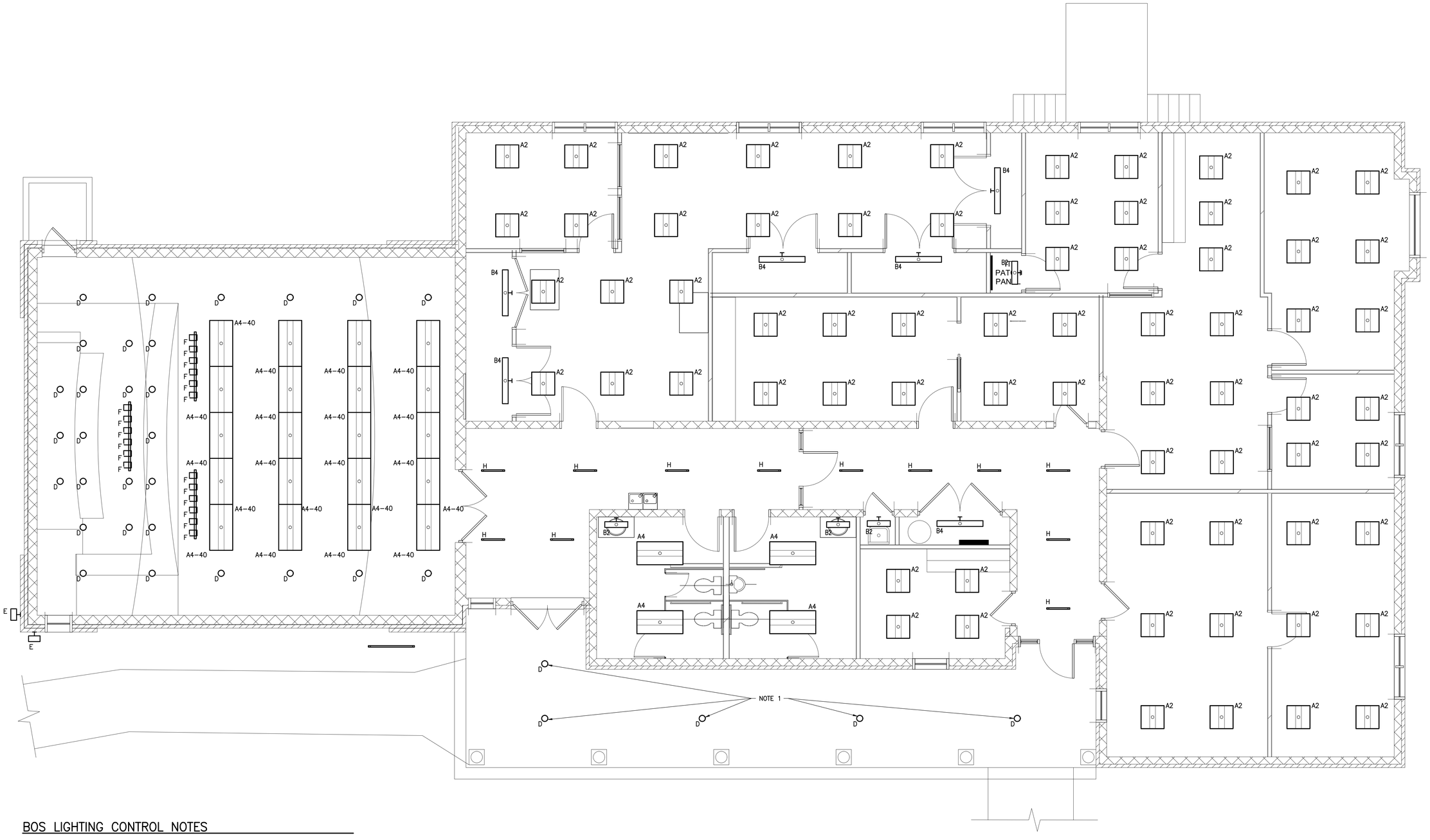
MADISON, VA 22727

Drawing Title: BLDG 410
FLOOR PLAN - LIGHTING

Scale:

Drawing No.: E200



BOS LIGHTING CONTROL NOTES

LIGHTING IN THE BOS SPACE WILL BE SUB-DIVIDED INTO SEVERAL CONTROL ZONES AS FOLLOWS:

1. "HOUSE LIGHTING" – TYPE A4-40 FIXTURES AND PERIMETER DOWNLIGHTS
2. DOWNLIGHTS IN THE FRONT
3. TRACK LIGHTING IN THE FRONT TIER 1
4. TRACK LIGHTING IN THE FRONT TIER 2

ALL LIGHTS WILL BE DIMMABLE THROUGH A INTENSITY RANGE OF 10-100%.

REDUNDANT CONTROL STATIONS FOR THESE ZONES WILL BE LOCATED IN BOTH IN THE BACK AS YOU ENTER THROUGH THE DOORS AND AT THE FRONT FOR PRESENTER CONTROL. CONTROL STATION WILL HAVE SEVERAL "SCENES" FOR EASY CONTROL SUCH AS "PRESENTATION", "NORMAL" AND "OFF".

VACANCY SENSORS WILL BE INSTALLED IN THE CEILING TO TURN LIGHTS OFF IF THE ROOM IS UNOCCUPIED FOR MORE THAN 20 MINUTES.

EMERGENCY EGRESS LIGHTING WILL BE DESIGNED INTO THE GENERAL LIGHTING FIXTURES. LIGHTING CONTROLS WILL BE PROGRAMMED SUCH THAT EMERGENCY FIXTURES WILL AUTOMATICALLY BE BROUGHT TO 100% UPON LOSS OF NORMAL POWER.

FLOOR PLAN - LIGHTING

SCALE: 1/4"=1'-0"

NOTES (SHEET E201)

1. REPLACE EXISTING FIXTURE AT SAME LOCATION WITH NEW FIXTURE TYPE DESIGNATED.

PROGRESS PRINT. NOT FOR CONSTRUCTION 6/2/20

4' 0' 4' 8' 1/4" = 1'-0"
GRAPHIC SCALE

No.	Date	Issue Notes
1	06/03/20	DD Progress

No.	Date	Revision Notes	Zone	Appr
6				
5				
4				
3				
2				
1				

Date 06/03/20
Revision
Project No 1979
Drawing Code
CAD File Name 1979-BOS-H-LIGHTING.DWG
Plot Date 2020/06/02

Drawn By JHR
Designed By JHR
Reviewed By MGB
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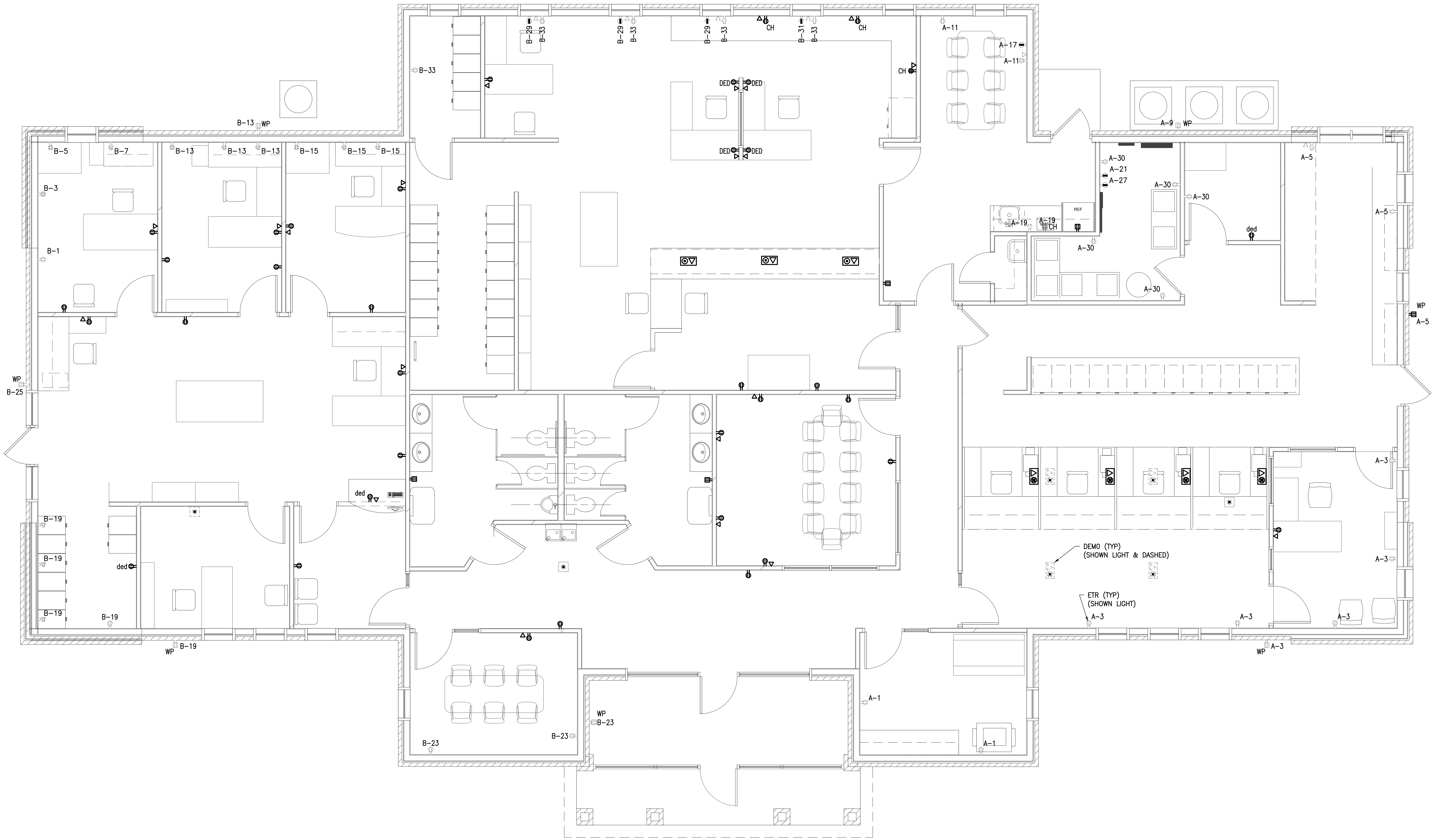
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title
BLDG 414
FLOOR PLAN - LIGHTING

Scale

Drawing No.
E201
of



NOTES (SHEET E300)

1. NOTES

FLOOR PLAN - POWER

NORTH

SCALE: 1/4"=1'-0"

PROGRESS PRINT. NOT FOR CONSTRUCTION 6/2/20

4' 0' 4' 8'

1/4" = 1'-0"

GRAPHIC SCALE

Appr	Zone	Revision Notes	Date	No.

No.	Date	Issue Notes
1	060320	DD Progress
2	.	.
3	.	.
4	.	.
5	.	.
6	.	.

Designed By	MGB	Date	060320
Drawn By	JHR	Revision	Revision
Checked By	MGB	Project ID	19679
Reviewed By		Drawing Code	Drawing Code
Submitted By		CAD File Name	E300 558-1387 BLDG 410 POWER.DWG
Project Manager		Plot Date	2020/06/02

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Project Title

COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title

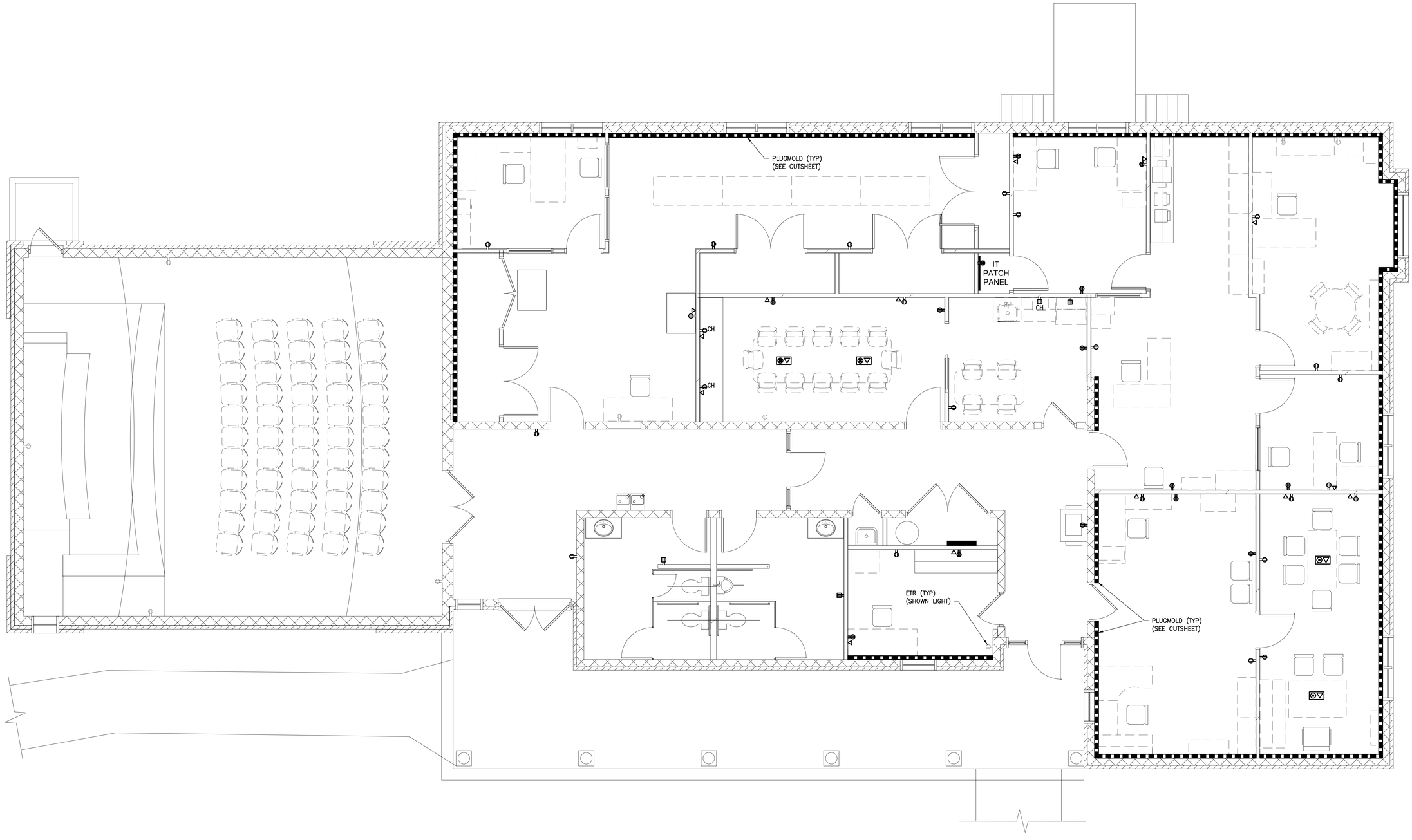
BLDG 410
FLOOR PLAN - POWER

Scale

Drawing No.

E300

of



NOTES (SHEET E301)

1. NOTES

NORTH

FLOOR PLAN - POWER

SCALE: 1/4"=1'-0"

PROGRESS PRINT. NOT FOR CONSTRUCTION 6/2/20

4' 0' 4' 8'

1/4" = 1'-0"

GRAPHIC SCALE

No.	Date	Issue Notes
1	06/03/20	DD Progress
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

No.	Date	Revision Notes	Zone	Appr

Designed By: MGB
Date: 05/2020
Drawn By: JHR
Revision: 6
Checked By: MGB
Project ID: 19679
Reviewed By:
Drawing Code: Drawing Code
Submitted By:
CAD File Name: E301 SS-2007 BLDG 414 POWER.DWG
Project Manager:
Plot Date: 2020/06/02

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Job # 1387

Project Title: COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title: BLDG 414
FLOOR PLAN - POWER

Scale:

Drawing No.: E301

of

PLUMBING LEGEND

PIPING

- SANITARY SEWER
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- VENT
- PIPE DOWN
- PIPE UP
- VENT THRU ROOF
- C.O. / C.O. — PIPE WITH CLEANOUT
- DIRECTION OF FLOW IN PIPE
- FLOOR DRAIN WITH P–TRAP
- OR — FULL PORT BALL VALVE
- UNION OR FLANGE
- DIRECTION OF PITCH
- STRAINER (W/ FULL PORT BLOW–OFF VALVE)
- WH — WALL HYDRANT
- HOSE BIBB
- # — DEMOLITION PLAN NOTE
- # — NEW WORK PLAN NOTE

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
CLG.	CEILING
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DN	DOWN
ETR	EXISTING TO REMAIN
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
MAX.	MAXIMUM
MFR.	MANUFACTURER
MIN.	MINIMUM
PDI	PLUMBING & DRAINAGE INSTITUTE
SAN	SANITARY SEWER
TMV	THERMOSTATIC MIXING VALVE
TYP.	TYPICAL
V	VENT
VRV	VACUUM RELIEF VALVE
VTR	VENT THRU ROOF
W	SANITARY WASTE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

GENERAL NOTES

A. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE UNIFORM STATEWIDE BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS AND IN ACCORDANCE WITH MANDATES OF THE LOCAL BUILDING OFFICALS.

B. THE GENERAL ARRANGEMENT AND LOCATIONS OF PIPING, FIXTURES, ETC. ARE INDICATED BY THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE THEREWITH, WITH THE EXCEPTION OF SUCH CHANGES AS MAY BE REQUIRED ON ACCOUNT OF OTHER TRADES. CONTRACTOR SHALL COORDINATE WORK WITH INSTALLATION OF OTHER SUBCONTRACTORS.

C. PLUMBING WORK SHALL BE COORDINATED WITH THE CONTRACTOR AS TO SCHEDULING, DIMENSIONING AND LOCATION OF EQUIPMENT.

D. MAJOR ITEMS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCIDENTAL ITEMS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

E. SUBSTITUTION FOR SPECIFIED ITEMS SHALL BE BORNE BY THE CONTRACTOR.

F. ALL REQUIRED WALL OR FLOOR OPENINGS SHALL BE COORDINATED WITH THE CONTRACTOR.

G. ALL PIPING SHALL BE ABOVE CEILING UNLESS INDICATED OTHERWISE.

H. EQUIPMENT SHALL BE WIPED CLEAN, REMOVING ALL TRACES OF OIL, DIRT, OR PAINT SPOTS.

I. PROVIDE SUPPORTS TO RIGIDLY ATTACH ALL EQUIPMENT, APPURTENANCES AND PIPE AS REQUIRED FOR SUPPORT. PRIOR TO INSTALLATION OF HANGERS AND INSERTS, THE CONTRACTOR SHALL COORDINATE LOCATIONS AND EQUIPMENT TO MINIMIZE CONFLICTS WITH OTHER BUILDING SYSTEMS.

J. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED TO BE FURNISHED BY OTHERS.

K. ALL PIPE OF THE SAME SIZE SHALL BE OF THE SAME MATERIAL.

L. SLOPE ALL DRAIN LINES 1/4 INCH PER FOOT MINIMUM FOR SIZES LESS THAN 4 INCHES, SLOPE 1/8 INCH PER FOOT SIZES 4 INCHES AND LARGER UNLESS INDICATED OTHERWISE BY INVERTS ON DWGS.

M. SOIL, WASTE AND VENT PIPING LOCATED BELOW GRADE SHALL BE MINIMUM 2 INCHES.

N. VENTS SHALL EXTEND 12 INCHES ABOVE ROOF. ROOF FLASHING SHALL BE COORDINATED BY THE CONTRACTOR.

O. DOMESTIC HOT AND COLD WATER PIPING SHALL BE 1/2 INCH SIZE UNLESS INDICATED OTHERWISE.

P. BALL VALVES MAY BE USED IN LIEU OF GATE VALVES 2 INCHES OR SMALLER.

Q. ALL EXPOSED FIXTURE SUPPLIES AND WASTE LINES SHALL BE CHROME PLATED.

R. INSULATE ANY STORM WATER PIPING IN EXISTING BUILDING INCLUDING BOTTOM SIDE OF ROOF DRAINS.

PLUMBING SPECIFICATIONS

1.0 GENERAL

1.01 THE CONTRACT DOCUMENTS APPLY TO THESE SPECIFICATIONS.

1.02 PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR THE WORK SHOWN ON THE DRAWINGS, WHICH INCLUDES INSTALLATION OF ALL PLUMBING PIPING AND FIXTURES.

1.03 WORK SHALL MEET REQUIREMENTS OF LOCAL BUILDING CODES AND ORDINANCES, APPLICABLE REQUIREMENTS OF THE VUSBC, NFPA, AND REQUIREMENTS OF LOCAL PLUMBING CODE.

1.04 SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

A. PLUMBING FIXTURES & EQUIPMENT

B. INSULATION

1.05 PLACING IN SERVICE:

A. BEFORE BEING PLACED INTO OPERATION, ALL EQUIPMENT REQUIRING PREOPERATIONAL ATTENTION SHALL BE SERVICED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.

2.0 PRODUCTS

2.01 PIPE AND PIPE FITTINGS

A. COPPER TUBE TYPE L: ANSI/ASTM B88.

B. PVC PIPE: SCH. 40, GRADE PVC 2116: ASTM D1785 AND ASTM D2241. CELLULAR CORE PVC SHALL NOT BE ALLOWED.

C. STEEL PIPE: SCH. 40, ASTM A53, TYPE E OR S, GRADE B, CARBON STEEL WITH BUTT WELDED, ASTM A234 STEEL FITTINGS OR ASTM A338 MALLEABLE IRON FITTINGS.

D. NO HUB CAST IRON

2.02 PIPING SYSTEM SHALL BE SUPPORTED IN ACCORDANCE WITH ANSI B31.1 AND APPLICABLE MANUFACTURERS STANDARDIZATION SOCIETY (MSS) STANDARDS "POWER PIPING" SO AS TO MAINTAIN REQUIRED PITCH OF LINES, PREVENT VIBRATION AND PROVIDE FOR EXPANSION AND CONTRACTION MOVEMENT.

2.03 PIPING SCHEDULE

SERVICE	SIZE	PIPE TYPE	FITTING TYPE	VALVE TYPE	NOTES
DOMESTIC COLD WATER SUPPLY	ALL SIZES	TYPE L COPPER HARD DRAWN	WROUGHT COPPER NO–LEAD SOLDER	BALL	1,2
DOMESTIC HOT WATER SUPPLY AND RETURN	ALL SIZES	TYPE L COPPER HARD DRAWN	WROUGHT COPPER NO–LEAD SOLDER	BALL	1,2
SANITARY AND VENT	ALL SIZES	SCHEDULE 40 PVC	SOLVENT WELDED		

NOTES:

1. SERIES 82LF BRONZE APOLLO 3 BY CONBRACO.
2. REFER TO INSULATION SPECIFICATION FOR FINISH.

2.04 INSULATION SCHEDULE

SERVICE	TYPE INSUL.	THICKNESS INCHES	FINISH IN CONCEALED AREAS	FINISH IN EXPOSED AREAS	NOTES
(1) PIPING					
DOMESTIC HOT WATER SUPPLY AND RETURN	GLASS FIBER	1.0	INTEGRAL FIRE RETARDANT ASJ	NO FINISH ON INSULATION	1
DOMESTIC COLD WATER	GLASS FIBER	1.0	INTEGRAL FIRE RETARDANT VAPOR BARRIER ASJ	NO FINISH ON INSULATION	1
EXPOSED DOMESTIC WATER AND SANITARY BELOW LAVATORY					2

NOTES:

1. APPLY FLEXIBLE GLASS FIBER INSULATION IN CONCEALED AREAS ONLY.
2. SEE PLUMBING FIXTURE SCHEDULE ON THIS SHEET.

3.0 EXECUTION

3.01 SUBJECT ALL DOMESTIC WATER PIPING SYSTEMS TO A HYDROSTATIC PRESSURE TEST AT 1–1/2 TIMES OPERATING PRESSURE OR 100 PSIG, WHICHEVER IS GREATER, MEASURED AT THE LOWEST POINT IN THE SYSTEM FOR A PERIOD OF FOUR HOURS.

3.02 PLUMBING DRAINAGE AND VENT SYSTEMS INSIDE THE BUILDING SHALL BE WATER TESTED UPON COMPLETION OF THE ROUGH PIPING INSTALLATION AND PROVED WATERTIGHT.

3.03 INSTALL ISOLATION VALVES IN HOT AND COLD PIPING AT EACH BRANCH CONTAINING PLUMBING FIXTURES AND AT LOCATIONS TO ISOLATE MAIN SECTIONS OF THE BUILDING.

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06/03/20

No.	Date	Issue/Notes	Revision Notes	Date	Zone	Appr
1	06/03/20	DD Progress				
2						
3						
4						
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6						

Date	03/05/20
Revision	Revision
Project ID	19079
Drawing Code	Drawing Code
CAD file location	19079-sd-mdsnv-06132020
Plot Date	00/00/00
Drawn by	ATE
Checked By	CLS
Checked By	CLS
Checked By	CLS
Project Manager	

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COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

PLUMBING
LEGEND, NOTES, ABBREVIATIONS & SPECIFICATIONS

Scale

Drawing No.
P001
— of —

BUILDING 410 SCHEDULES

MISCELLANEOUS EQUIPMENT SCHEDULE

MARK	DESCRIPTION
DWH-1	ELECTRIC WATER HEATER
EWC-1	ELECTRIC WATER COOLER - HIGH/OW WITH BOTTLE FILLER
FD-1	FLOOR DRAIN WITH TRAP SEAL DEVICE
WCO	WALL CLEANOUT - ZURN Z1446 SERIES, DURA-COATED CAST IRON WITH POLISHED STAINLESS STEEL COVER.

FIXTURE SCHEDULE AND SPECIFICATIONS

DESIG	FIXTURE	MANUFACTURER & MODEL	SIZE	SUPPLY FITTINGS & STOPS	TRAP	CARRIER	REMARKS & ACCESSORIES	CONNECTION SIZES		
								WASTE	HOT	COLD
P-1	WATER CLOSET									
P-2	URINAL									
P-3	LAVATORY									
P-4	KITCHEN SINK									
P-5	SERVICE SINK									

BUILDING 414 SCHEDULES

MISCELLANEOUS EQUIPMENT SCHEDULE

MARK	DESCRIPTION
DWH-1	ELECTRIC WATER HEATER
EWC-1	ELECTRIC WATER COOLER - HIGH/LOW WITH BOTTLE FILLER
WCO	WALL CLEANOUT - ZURN Z1446 SERIES, DURA-COATED CAST IRON WITH POLISHED STAINLESS STEEL COVER.

FIXTURE SCHEDULE AND SPECIFICATIONS

DESIG	FIXTURE	MANUFACTURER & MODEL	SIZE	SUPPLY FITTINGS & STOPS	TRAP	CARRIER	REMARKS & ACCESSORIES	CONNECTION SIZES		
								WASTE	HOT	COLD
P-1	WATER CLOSET									
P-2	URINAL									
P-3	LAVATORY									
P-4	KITCHEN SINK									

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06/03/20

No.	Date	Issue Notes
1	06/03/20	DD Progress
2		
3		
4		
5		
6		

No.	Date	Revision	Revision Notes	Zone	Appr

Date 5/25/20
Revision
Project ID 19079
Drawing Code
CAD File Name 19079-sd-mep-rev-20-1320
Plot Date 00/00/00

Drawn By ATE
Checked By CLS
Reviewed By CLS
Approved By CLS
Project Manager

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Project Title
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410 NORTH MAIN STREET
MADISON, VA 22727

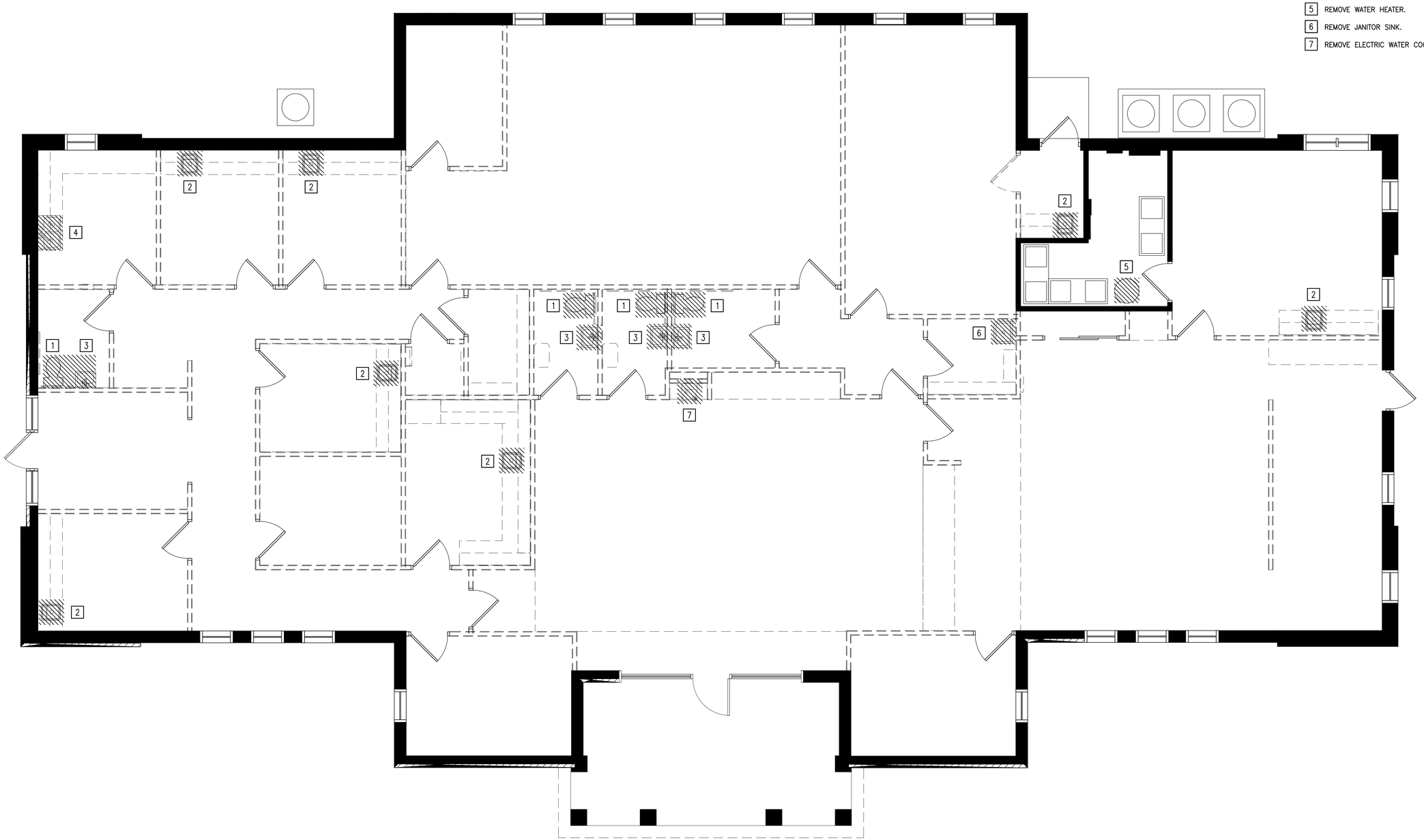
Drawing Title
PLUMBING
FIXTURE AND EQUIPMENT SCHEDULES

Scale

Drawing No.
P002
of

PLAN NOTES

1. REMOVE WATER CLOSET.
2. REMOVE COUNTER MOUNTED LAVATORY.
3. REMOVE WALL HUNG LAVATORY.
4. REMOVE KITCHEN SINK.
5. REMOVE WATER HEATER.
6. REMOVE JANITOR SINK.
7. REMOVE ELECTRIC WATER COOLER.



BUILDING 410 PLUMBING DEMOLITION PLAN

SCALE: 1/4"=1'-0"

FOR REVIEW ONLY
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06/03/20

No.	Date	Issue Notes
	060320	DD Progress

No.	Date	Revision Notes	Zone	Appr

Designed By: CLS
Drawn By: ATE
Checked By: CLS
Reviewed By: CLS
Submitted By:
Project Manager:
Date: 060320
Revision: Revision
Project ID: 19879
Drawing Code: Drawing Code
CAD File Name: 19879-sd-main-rz-051320
PLOT Date: 00/00/00

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Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

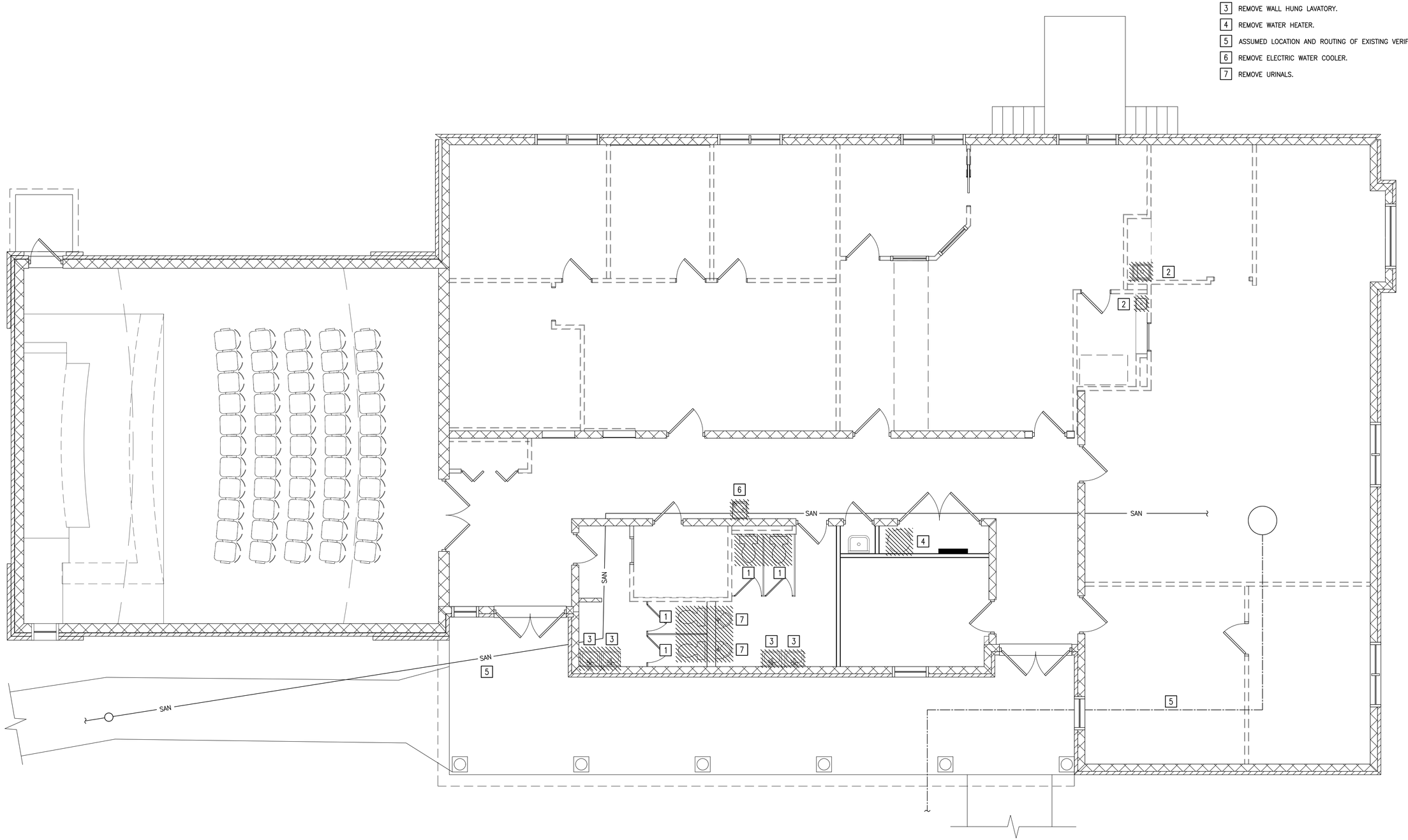
Drawing Title
BUILDING 410
PLUMBING
DEMOLITION PLAN

Scale

Drawing No.
P101

PLAN NOTES

1. REMOVE WATER CLOSET.
2. REMOVE COUNTER MOUNTED LAVATORY.
3. REMOVE WALL HUNG LAVATORY.
4. REMOVE WATER HEATER.
5. ASSUMED LOCATION AND ROUTING OF EXISTING VERIFY IN FIELD.
6. REMOVE ELECTRIC WATER COOLER.
7. REMOVE URINALS.



BUILDING 414 PLUMBING DEMOLITION PLAN

SCALE: 1/4"=1'-0"

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
06/03/20

No.	Date	Issue Notes
1	06/03/20	DD Progress

No.	Date	Revision Notes	Zone	Appr

Designed By: CLS
Date: 06/03/20
Drawn By: ATE
Revision:
Checked By: CLS
Project ID: 19679
Reviewed By: CLS
Drawing Code: Drawing Code
Submitted By: CLS
CAD File Name: 19679-sd-main-rz-051320
Project Manager:
PLOT Date: 00/00/00

Design Firm
Norman Smith Architecture
1341 H Street NE, Washington DC 20002
3637 Slate Mills Road, Sperryville, VA 22740
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Consultant
MASTER ENGINEERS & DESIGNERS
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Project Title
COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

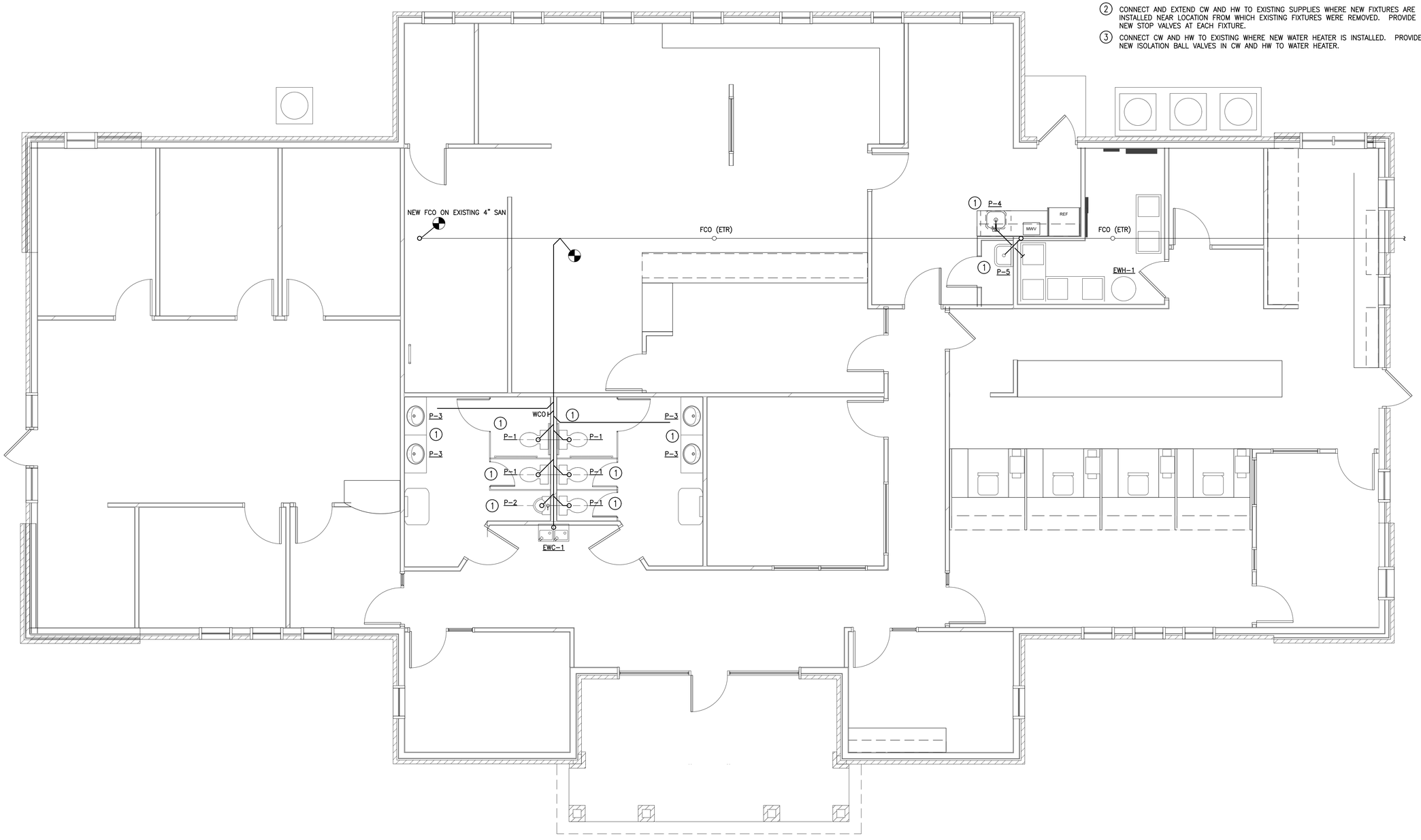
Drawing Title
BUILDING 414
PLUMBING
DEMOLITION PLAN

Scale

Drawing No.
P102
of

PLAN NOTES

1. CONNECT CW AND HW TO EXISTING SUPPLIES WHERE NEW FIXTURES ARE INSTALLED. PROVIDE NEW STOP VALVES AT EACH FIXTURE.
2. CONNECT AND EXTEND CW AND HW TO EXISTING SUPPLIES WHERE NEW FIXTURES ARE INSTALLED NEAR LOCATION FROM WHICH EXISTING FIXTURES WERE REMOVED. PROVIDE NEW STOP VALVES AT EACH FIXTURE.
3. CONNECT CW AND HW TO EXISTING WHERE NEW WATER HEATER IS INSTALLED. PROVIDE NEW ISOLATION BALL VALVES IN CW AND HW TO WATER HEATER.



BUILDING 410 PLUMBING NEW WORK PLAN

SCALE: 1/4"=1'-0"

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
06/03/20

No.	Date	Issue Notes	Revision Notes	Zone	Appr
1	06/03/20	DD Progress			

Drawn By: CLS
Date: 06/03/20
Scale By: ATE
Revision: Revision
Checked By: CLS
Project ID: 19079
Reviewed By: CLS
Drawing Code: Drawing Code
Approved By: CLS
CAD File Name: 19079-bd-mech-r-DS-1320
Project Manager:
Revision: 00/00/00

Design Firm: Norman Smith Architecture
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Owner's Site: COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title: BUILDING 410
PLUMBING
NEW WORK PLAN

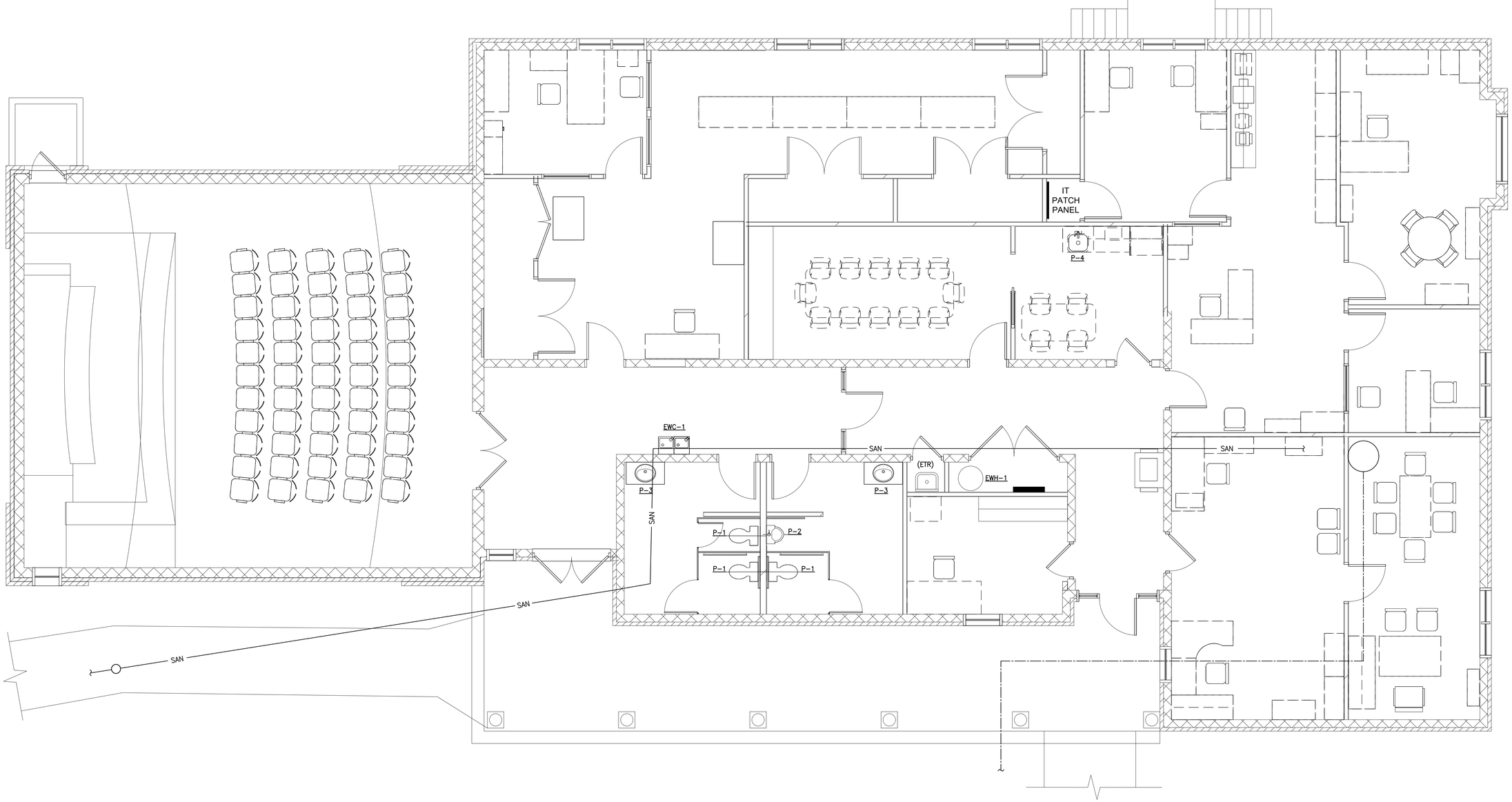
Scale:

Drawing No.: P201

of

PLAN NOTES

1. CONNECT CW AND HW TO EXISTING SUPPLIES WHERE NEW FIXTURES ARE INSTALLED. PROVIDE NEW STOP VALVES AT EACH FIXTURE.
2. CONNECT AND EXTEND CW AND HW TO EXISTING SUPPLIES WHERE NEW FIXTURES ARE INSTALLED NEAR LOCATION FROM WHICH EXISTING FIXTURES WERE REMOVED. PROVIDE NEW STOP VALVES AT EACH FIXTURE.
3. CONNECT CW AND HW TO EXISTING WHERE NEW WATER HEATER IS INSTALLED. PROVIDE NEW ISOLATION BALL VALVES IN CW AND HW TO WATER HEATER.



BUILDING 414 PLUMBING NEW WORK PLAN

SCALE: 1/4"=1'-0"

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
06/03/20

No.	Date	Issue Notes
1	060320	DD Progress

No.	Date	Revision Notes	Zone	Appr

Designed By: CLS
Drawn By: ATE
Checked By: CLS
Reviewed By: CLS
Date: 060320
Revision: Revision
Project ID: 19679
Drawing Code: Drawing Code
CAD File Name: 19679-sd-main-rz-051320
PLOT Date: 00/00/00

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Project Title: COUNTY OF MADISON, VIRGINIA
410 NORTH MAIN STREET
MADISON, VA 22727

Drawing Title: BUILDING 414
PLUMBING
NEW WORK PLAN

Scale:

Drawing No.: P202
of