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INTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Interior trim.
 - 2. Shelving. (Addendum No. 1)

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.

PART 2 - PRODUCTS

2.01 MATERIALS, GENERAL

- A. Lumber: DOC PS 20.
 - 1. Factory mark each piece of lumber with grade stamp of inspection agency indicating grade, species, moisture content at time of surfacing, and mill.
 - a. For exposed lumber, mark grade stamp on end or back of each piece, or omit grade stamp and provide certificates of grade compliance issued by inspection agency.
- B. Softwood Plywood: DOC PS 1.

2.02 FIRE-RETARDANT-TREATED MATERIALS

- A. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
 - 1. Kiln dry lumber after treatment to a maximum moisture content of 19 percent.
- B. Fire-retardant-treated wood shall not exceed the flame spread and smoke developed limitations of NCBC Table 803.9.
- C. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. For exposed lumber indicated to receive a stained or natural finish, mark back of each piece.
- D. Application: All interior lumber.

2.03 INTERIOR TRIM

- A. Hardwood Moldings for Transparent Finish (Stain or Clear Finish): WMMPA HWM 2, N-grade wood moldings made to patterns included in WMMPA HWM 1.
 - 1. Species: White maple.
 - 2. Maximum Moisture Content: 9 percent.
- B. Molding Patterns: As detailed.

2.04 SHELVING (ADDENDUM NO. 1)

- A. Shelving: Made from the following material, 3/4 inch (19 mm) thick.
 - 1. Softwood Boards: Douglas fir-larch, Douglas fir south, or hem-fir; Superior or C & Btr finish; NLGA, WCLIB, or WWPA; or southern pine, B & B finish; SPIB; kiln dried.
- B. Heavy-Duty Standards: Heavy-duty steel wall standards, double slot design, with 1.25 inch vertical slot adjustment.
- C. Heavy-Duty Shelf Brackets: Heavy-duty steel shelf brackets with 1.25 inch vertical adjustment.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours unless longer conditioning is recommended by manufacturer.

3.02 INSTALLATION, GENERAL

- A. Install interior finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
 - 1. Scribe and cut interior finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.
 - 2. Countersink fasteners, fill surface flush, and sand unless otherwise indicated.
 - 3. Install to tolerance of 1/8 inch in 96 inches (3 mm in 2438 mm) for level and plumb. Install adjoining interior finish carpentry with 1/32-inch (0.8-mm) maximum offset for flush installation and 1/16-inch (1.5-mm) maximum offset for reveal installation.

3.03 STANDING AND RUNNING TRIM INSTALLATION

- A. Install with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Miter at returns, miter at outside corners, and cope at inside corners to produce tight-fitting joints with full-surface contact throughout length of joint. Use scarf joints for end-to-end joints.

3.04 SHELVING INSTALLATION (ADDENDUM NO. 1)

- A. Install shelf standards and brackets according to manufacturer's written instructions. Fasten to blocking, or metal backing, or use toggle bolts or hollow wall anchors.

END OF SECTION

SECTION 06 41 16

PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Plastic-laminate-faced architectural cabinets.
 - 2. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-faced architectural cabinets unless concealed within other construction before cabinet installation.
- B. Related Requirements:
 - 1. Section 12 36 00 "Countertops."

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product, including panel products high-pressure decorative laminate adhesive for bonding plastic laminate and cabinet hardware and accessories.
- B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
- C. Samples:
 - 1. Plastic laminates, for each color, pattern, and surface finish.
 - 2. Thermoset decorative panels, for each color, pattern, and surface finish.

1.03 QUALITY ASSURANCE

- A. Fabricator Qualifications: Certified participant in AWI's Quality Certification Program.
- B. Installer Qualifications: Fabricator of products.

1.04 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

2.01 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of architectural plastic-laminate cabinets indicated for construction, finishes, installation, and other requirements.
 - 1. Provide labels and certificates from AWI certification program indicating that woodwork, including installation, complies with requirements of grades specified.
- B. Grade: Custom.
- C. Type of Construction: Frameless.
- D. Cabinet, Door, and Drawer Front Interface Style: Flush overlay.
- E. Reveal Dimension: As indicated.
- F. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by woodwork quality standard.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Formica Corporation.
 - b. Lamin-Art, Inc.
 - c. Panolam Industries International, Inc.
 - d. Wilsonart International; Div. of Premark International, Inc.

- G. Laminate Cladding for Exposed Surfaces:
 - 1. Horizontal Surfaces: Grade HGL.
 - 2. Vertical Surfaces: Grade VGS.
 - 3. Pattern Direction: Vertically for drawer fronts, doors, and fixed panels unless otherwise indicated.
- H. Materials for Semi-exposed Surfaces:
 - 1. Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
 - 2. Drawer Sides and Backs: Thermoset decorative panels with PVC or polyester edge banding.
 - 3. Drawer Bottoms: Thermoset decorative panels.
- I. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. As selected by Architect from laminate manufacturer's full range in the following categories:
 - a. Solid colors with core same color as surface, scheduled finish.

2.02 WOOD MATERIALS

- A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.
 - 1. Wood Moisture Content: 8 to 13 percent.
 - 2. Medium-Density Fiberboard: ANSI A208.2, Grade 130.
 - 3. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.
 - 4. Softwood Plywood: DOC PS 1.
 - 5. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for test methods 3.3, 3.4, 3.6, 3.8, and 3.10.

2.03 CABINET HARDWARE AND ACCESSORIES

- A. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 170 degrees of opening, self-closing.
- B. Wire Pulls: Back mounted, solid metal, 4 inches (100 mm) long, 5/16 inch (8 mm) in diameter.
- C. Shelf Rests: BHMA A156.9, B04013; metal.
- D. Drawer Slides: BHMA A156.9.
 - 1. Grade 1 and Grade 2: Side mounted; full-extension type; zinc-plated steel with polymer rollers.
 - 2. Grade 1HD-100 and Grade 1HD-200: Side mounted; full-extension type; zinc-plated-steel ball-bearing slides.
 - 3. For drawers not more than 3 inches (75 mm) high and not more than 24 inches (600 mm) wide, provide Grade 2.
 - 4. For drawers more than 3 inches (75 mm) high but not more than 6 inches (150 mm) high and not more than 24 inches (600 mm) wide, provide Grade 1.
 - 5. For drawers more than 6 inches (150 mm) high or more than 24 inches (600 mm) wide, provide Grade 1HD-100.
 - 6. For trash bins not more than 20 inches (500 mm) high and 16 inches (400 mm) wide, provide Grade 1HD-100.
- E. Door Locks: BHMA A156.11, E07121.
- F. Drawer Locks: BHMA A156.11, E07041.
- G. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
 - 1. Satin Chromium Plated: BHMA 626 for brass or bronze base; BHMA 652 for steel base.

2.04 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.
- C. Adhesives: Do not use adhesives that contain urea formaldehyde.
- D. Adhesive for Bonding Plastic Laminate: Unpigmented contact cement [Resorcinol].
 - 1. Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.05 FABRICATION

- A. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.

3.02 INSTALLATION

- A. Grade: Install cabinets to comply with same grade as item to be installed.
- B. Install cabinets level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
- C. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- D. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork.
- E. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 1. Install cabinets with no more than 1/8 inch in 96-inch (3 mm in 2400-mm) sag, bow, or other variation from a straight line.
 - 2. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches (400 mm) o.c. with No. 10 wafer-head screws sized for not less than 1-1/2-inch (38-mm) penetration into wood framing, blocking, or hanging strips.

END OF SECTION

SECTION 07 54 19

POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. ~~Adhered polyvinyl chloride (PVC) roofing system.~~ (Addendum No. 1)
 - 2. Mechanically fastened polyvinyl-chloride (PVC) roofing system. (Addendum No. 1)
 - 3. Roof insulation.
- B. Related Requirements:
 - 1. Section 06 10 53 "Miscellaneous Rough Carpentry" for wood nailers, curbs, and blocking; and for wood-based, structural-use roof deck panels.
 - 2. Section 07 62 00 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
 - 3. Section 07 92 00 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.02 PREINSTALLATION MEETINGS

- A. Preliminary Roofing Conference: Before starting roof deck construction, conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Review deck substrate requirements for conditions and finishes, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.
 - 8. Review temporary protection requirements for roofing system during and after installation.
 - 9. Review roof observation and repair procedures after roofing installation.
- B. Preinstallation Roofing Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.

8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work, including:
 1. Base flashings and membrane terminations.
 2. Tapered insulation, including slopes.
 3. Roof plan showing orientation of steel roof deck and orientation of roofing, fastening spacings, and patterns for mechanically fastened roofing.
 4. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
- C. Samples for Verification: For the following products:
 1. Sheet roofing, of color required.
 2. Walkway pads or rolls, of color required.

1.04 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is FM Global approved for roofing system identical to that used for this Project.
- B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.07 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.08 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 1. Special warranty includes membrane roofing, base flashings, roof insulation, fasteners, cover boards, and other components of roofing system.
 2. Warranty Period: 20 years from date of Substantial Completion.

- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as membrane roofing, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Source Limitations: Obtain components including roof insulation fasteners for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.
- B. Polyvinyl Chloride (PVC) Membrane Materials:
 - 1. Carlisle Roofing Systems, Inc.
 - 2. Duro-Last Roofing Inc.
 - 3. GAF.
 - 4. Sarnafil Inc.
 - 5. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and base flashings shall remain watertight.
 - 1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
 - 2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- C. Roofing System Design: Tested by a qualified testing agency to resist the following uplift pressures:
 - 1. Corner Uplift Pressure: See Structural Drawings.
 - 2. Perimeter Uplift Pressure: See Structural Drawings.
 - 3. Field-of-Roof Uplift Pressure: See Structural Drawings.
 - 4. Fire/Windstorm Classification: Class 1A-90.
- D. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- E. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

2.03 PVC ROOFING

- A. PVC Sheet: ASTM D 4434/D 4434M, Type III, fabric reinforced.
 - 1. Thickness: 60 mils (1.5 mm), nominal.
 - 2. Exposed Face Color: White.

2.04 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
 - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.

- B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.
- C. Bonding Adhesive: Manufacturer's standard.
- D. Slip Sheet: Manufacturer's standard, of thickness required for application.
- E. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- F. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch (25 mm wide by 1.3 mm) thick, prepunched.
- G. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roofing to substrate, and acceptable to roofing system manufacturer.
- H. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.05 SUBSTRATE BOARDS

- A. Substrate Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/2 inch (13 mm) thick.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening substrate board to roof deck.

2.06 ROOF INSULATION

- A. General: Preformed roof insulation boards manufactured or approved by PVC roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses indicated.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Atlas Roofing Corporation.
 - b. Carlisle SynTec Incorporated.
 - c. Firestone Building Products.
 - d. Hunter Panels.
 - e. Johns Manville; a Berkshire Hathaway company.
 - f. Rmax, Inc.

2.07 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
- C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:
 - 1. Modified asphaltic, asbestos-free, cold-applied adhesive.
 - 2. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.
 - 3. Full-spread spray-applied, low-rise, two-component urethane adhesive.
- D. Protection Mat: Woven or nonwoven polypropylene, polyolefin, or polyester fabric, water permeable and resistant to UV degradation, type and weight as recommended by roofing system manufacturer for application.

2.08 ASPHALT MATERIALS

- A. Roofing Asphalt: ASTM D 312, Type III or Type IV.

2.09 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads, approximately 3/16 inch (5 mm) thick and acceptable to roofing system manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 05 31 00 "Steel Decking."
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.03 ROOFING INSTALLATION, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.04 SUBSTRATE BOARD INSTALLATION

- A. Install substrate board with long joints in continuous straight lines, perpendicular to roof slopes with end joints staggered between rows. Tightly butt substrate boards together.
 - 1. Fasten substrate board to top flanges of steel deck to resist uplift pressure at corners, perimeter, and field of roof according to roofing system manufacturers' written instructions.

3.05 INSULATION INSTALLATION

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Install tapered insulation under area of roofing to conform to slopes indicated.
- D. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches (68 mm) or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.

- F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
 - 1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
- G. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
 - 1. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.

3.06 MECHANICALLY FASTENED ROOFING INSTALLATION (Addendum No. 1)

- A. Mechanically fasten roofing over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing and allow to relax before retaining.
 - 1. Install sheet according to ASTM D 5082.
 - 2. For in-splice attachment, install roofing with long dimension perpendicular to steel roof deck flutes.
- B. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- C. Accurately align roofing, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Mechanically fasten or adhere roofing securely at terminations, penetrations, and perimeter of roofing.
- E. Apply roofing with side laps shingled with slope of roof deck where possible.
- F. In-Seam Attachment: Secure one edge of PVC sheet using fastening plates or metal battens centered within seam, and mechanically fasten PVC sheet to roof deck.
- G. Seams: Clean seam areas, overlap roofing, and hot-air weld side and end laps of roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.
 - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet.
 - 2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
 - 3. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.
- H. Spread sealant bed over deck-drain flange at roof drains, and securely seal roofing in place with clamping ring.

3.07 ADHERED ROOFING INSTALLATION (Addendum No. 1)

- A. ~~Adhere roofing over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing and allow to relax before retaining.~~
 - 1. ~~Install sheet according to ASTM D 5036.~~
- B. ~~Start installation of roofing in presence of roofing system manufacturer's technical personnel.~~
- C. ~~Accurately align roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.~~
- D. ~~Bonding Adhesive: Apply to substrate and underside of roofing at rate required by manufacturer, and allow to partially dry before installing roofing. Do not apply to splice area of roofing.~~
- E. ~~In addition to adhering, mechanically fasten roofing securely at terminations, penetrations, and perimeter of roofing.~~
- F. ~~Apply roofing with side laps shingled with slope of roof deck where possible.~~
- G. ~~Seams: Clean seam areas, overlap roofing, and hot air weld side and end laps of roofing and sheet flashings according to manufacturer's written instructions, to ensure a watertight seam installation.~~
 - 1. ~~Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet.~~

- ~~2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.~~
 - ~~3. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.~~
- H. ~~Spread sealant bed over deck drain flange at roof drains, and securely seal roofing in place with clamping ring.~~

3.08 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.09 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products in locations indicated. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.10 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

3.11 ROOFING INSTALLER'S WARRANTY

- A. WHEREAS _____ of _____, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
 1. Owner: <Insert name of Owner>.
 2. Address: <Insert address>.
 3. Building Name/Type: <Insert information>.
 4. Address: <Insert address>.
 5. Area of Work: <Insert information>.
 6. Acceptance Date: _____.
 7. Warranty Period: <Insert time>.
 8. Expiration Date: _____.
- B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
 1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;

- b. peak gust wind speed exceeding <Insert mph (m/sec)>;
 - c. fire;
 - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and
 - g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
- 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
 - 3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
 - 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
 - 5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
 - 6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
 - 7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, _____.

- 1. Authorized Signature: _____.
- 2. Name: _____.
- 3. Title: _____.

END OF SECTION

SECTION 09 64 66

WOOD ATHLETIC FLOORING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Provide athletic flooring in the gymnasium.
- B. Gymnasium protective covering and storage. (Addendum No. 1)
- C. Related work specified under other sections.
 - 1. Cast-In-Place Concrete - Section 03 30 00.
 - a. Concrete Slab Depression: 3 inch (76mm) using 25/32 inch (20mm) flooring and subfloor.
 - b. Surface Finish: steel troweled and finished smooth.
 - c. Concrete Tolerance: +/- 1/8 inch (3mm) in radius of 10 feet (3m).
 - d. Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized.
 - e. Compressive Strength: Concrete shall be a minimum of 3,000 psi (21 MPa) and a maximum of 4000 psi (28MPa) compressive strength after 28 days. Concrete shall be free of washed river gravel, pea gravel, flint or hardener additives. No lightweight concrete.
 - f. High spots shall be ground level and low spots shall be filled in with approved leveling compound by the general contractor to meet the tolerance above.
 - 2. Under-Slab Vapor Barrier - Section 03 30 00.
 - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter walls and on the earth side of below grade walls by general contractor using suitable type membrane.
 - b. Sand-Poly-Sand slab construction is not an acceptable construction.
 - 3. Game Standard Inserts - Section 11 66 23.

1.02 REFERENCES

- A. MFMA - Maple Flooring Manufacturers Association
- B. MFMA PUR - Performance Uniformity Requirements
- C. DIN 108032 (part 2) 2001 - Performance Test
- D. DIN 108032 (part 2) 1991 - Performance Test
- E. ASTM F2772 - Athletic Performance Properties of Indoor Sports Floor Systems
- F. EN 14904 - European Committee for Standardization - Surfaces for Sports areas
- G. ASTM F2772 - Athletic Performance Properties of Indoor Sports Floor Systems
- H. FIBA - International Basketball Federation
- I. FSC - Forest Stewardship Council

1.03 QUALITY ASSURANCE

- A. Floor System Manufacturer Qualifications
 - 1. Manufacturer shall be an established firm experienced in field and have been in business or a minimum of ten (10) years.
 - 2. Manufacturer will be a member in good standing of the Maple Flooring Manufacturers Association (MFMA).

- B. Floor Contractor/Installer Qualifications and Certifications
 - 1. The flooring contractor shall be a flooring manufacturer's approved installer with MFMA Accredited Installer(s) on-site for the duration of the wood floor installation; or, a contractor approved by the flooring manufacturer.
 - 2. Flooring contractor shall submit a list of at least three completed projects of similar magnitude and complexity completed under current corporate identity.
- C. Surface Appearance (available option)
 - 1. Expansion spaces will not exceed 1/64 inch (0.4mm) at time of installation and will be spread evenly across the floor with each row of flooring.
 - 2. Expansion spacing will be installed to allow for normal expected increases in Equilibrium Wood Moisture Content (EMC).
- D. Floor System Performance
 - 1. Flooring shall meet or exceed criteria of the following performance criteria:
 - a. MFMA PUR
 - b. DIN 18032 Part2 2001
 - c. DIN 18032 Part2 1991
 - d. ASTM F2772 Sport Floor Standards
 - e. FIBA International Standards
 - f. EN 14904 Standards
 - 2. Independent testing report showing the system passing all criteria shall be provided as part of the bid qualification process and submittal process.

1.04 SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For each type of floor assembly and accessory. Include plans, sections, and attachment details. Include expansion provisions and trim details.
- C. Samples: For each exposed product and for each color and texture specified, approximately 12 inches (300 mm) long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.
- D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and finishes available for wood flooring.
 - 1. Include Samples of accessories involving color and finish selection.
- E. Samples for Verification: For wood flooring and accessories, with stain color and finish required, approximately 12 inches (300 mm) long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.
- F. Concrete Guidelines
 - 1. Submit MFMA Recommendations for correct preparation, finishing and testing of concrete subfloor surfaces to receive wood flooring.
- G. Maintenance Guidelines
 - 1. Submit copy of Maintenance Instructions.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Delivery of Materials
 - 1. Materials shall not be delivered, stored or installed until all masonry, painting, tilework, work is complete, and all overhead mechanical work, lighting, backstops, scoreboards are installed. Room temperature of 55-80 degrees Fahrenheit (13 to 27 degrees Celsius) and relative humidity of 35-50 % are to be maintained. In- Slab Relative Humidity shall be 85% or less using ASTM F 2170 In-Slab Relative Humidity test. Ideal installation/storage conditions are the same as those that will prevail when building is occupied
 - 2. Materials shall not be stored at the installation location if the In-Slab relative humidity level for the concrete slab is above 85% using ASTM F 2170 In-Slab Relative Humidity test.

1.06 JOB CONDITIONS-SEQUENCY

- A. Do not install floor system until concrete has been cured 60 days and the requirements in Paragraph 1.05 are obtained.
- B. General Contractor is responsible to ensure slab is clean and free of all dirt and debris prior to floor installation beginning.
- C. Permanent heat, light and ventilation shall be installed and operating during and after installation. Maintain a temperature range of 55 to 80 degrees Fahrenheit (13 to 27 degrees Celsius) and a relative humidity range of 35 to 50%. Consult MFMA guidelines for further information.
- D. After floors are finished, area to be kept locked by general contractor to allow curing time for the finish. If after required curing time general contractor or owner requires use of gym, he shall protect the floor by covering with non-fibered kraft paper or red rosin paper with taped joints, until acceptance by owner (or owner's agent) of complete gymnasium floor.

1.07 WARRANTY

- A. Flooring manufacturer hereby warrants the material to be free from manufacturing defects for a period of one year from date of Final Acceptance.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Wood Athletic Flooring:
 - 1. Action Floor Systems; Action Power Channel: www.actionfloors.com.
 - 2. Connor Sports; PermaflexII: www.connersports.com.
 - 3. Robbins Sports Surfaces; Bio-Channel Classic: www.robbinsfloor.com. (Basis of Design)

2.02 MATERIAL

- A. Vapor Barrier
 - 1. 6-mil polyethylene.
- B. Subfloor
 - 1. 9/16 inch shock pad.
 - 2. Flooring manufacturer's Subfloor panels that have been factory prepared to accept anchor channel.
 - 3. Metal Anchor Channels.
- C. Maple Flooring Manufacturers Association(MFMA) Wood Flooring
 - 1. Specie: Northern Hard Maple
 - 2. Seasoning: Kiln Dried
 - 3. Matching: Tongue and groove on side-match and end-match.
 - 4. Pattern: Straight-lay (One directional)
 - 5. Thickness: 25/32 inch
 - 6. Width: 2 ¼ inch
 - 7. Grade: 2nd and Better
 - 8. Expansion Option: Standard
 - 9. Wood Finish: 2.
 - 10. Factory Finish: Unfinished
 - 11. Treatment: Un-Treated
- D. Fasteners
 - 1. Flooring 1 3/4 inches (44mm) barbed cleats or staples.
 - 2. Channel anchors - 2 inch power anchors.
- E. Finishing materials
 - 1. MFMA approved oil-modified Sealer
 - 2. MFMA approved oil-modified Finish

- F. Gamelines
 - 1. Gameline paint(s) shall be recommended by the finishing material's manufacturer and must be compatible with the finish.
- G. Perimeter
 - 1. 3 x 4 inch ventilating type. Black or brown as selected by the Architect.
- H. Protective Covering and Rack: (Addendum No. 1)
 - 1. Gym Floor Protective Covering:
 - a. Manufacturer's standard rolls.
 - b. Color: Black.
 - c. Protective Flooring Mobile Rack: Manufacturer's standard.
 - d. Manufacturer: Rubber Flooring Inc.
 - e. Substitution: In accordance with Section 01 60 00 - Product Requirements.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness and report any discrepancies to the general contractor and architect in writing. Slab will be level to within 1/8 inch (3mm) in a 10 foot (3m). Moisture content of the concrete slab shall not exceed 85% using ASTM F 2170 In-Slab Relative Humidity test.
- B. All work required to put the concrete subfloors in acceptable condition shall be the responsibility of the general contractor.
- C. Subfloor shall be broom cleaned by general contractor.
- D. Installer shall document all working conditions provided in General Specifications prior to commencement of installation.

3.02 INSTALLATION

- A. Vapor Barrier:
 - 1. Install polyethylene with joints lapped a minimum of 6 inches (150mm) and turned up 4 inches (100mm) at the walls.
- B. Subfloor:
 - 1. Install shock absorbing pad per manufacturer's recommendations over 6 mil poly.
 - 2. Following manufacturer's guidelines, place subfloor assembly in end-to-end manner, staggering end joints in adjacent rows. Allow for a ¼ inch (6mm) gap between panels. Panels shall be placed on a 45 degree angle to the direction of the maple flooring. Provide 1-½ to 2 inches (40 to 50mm) expansion void at the perimeter and all vertical obstructions.
 - 3. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
 - 4. Install bleacher blocking per manufacturer's recommendations.
 - 5. Place metal anchor channel in each factory-prepared location in the panel.
 - 6. Anchor each anchor channel in the center pre-routed hole only, unless trimming at wall or vertical obstruction requires relocation in adjacent location to anchor.
- C. Flooring:
 - 1. Machine nail maple finish flooring 10 to 12 inches (150mm to 200mm) O.C. with end joints properly driven up and proper spacing provided for humidity conditions in specific regions. Provide 2 inch (50mm) expansion voids at the perimeter and at all vertical obstructions.

3.03 FINISHING

- A. Sanding
 - 1. Sand per manufacturer's recommendations.
 - 2. After sanding, buff entire floor using 100 grit screen or equal grit sandpaper, with a heavy-duty buffing machine.
 - 3. Inspect entire area of floor to insure the floor presents a smooth surface without drum stop marks, gouges, streaks or shiners.

4. Vacuum and/or tack floor before first coat of seal.
 5. Floor should be clean and completely free of dirt and sanding dust.
- B. Gymnasiums:
1. Apply specified combination of seal, gameline paint, and finish in accordance with manufacturer's instructions.
 2. Buff and vacuum and/or tack between each coat after it dries.
 3. Apply game lines accurately after the buffing and vacuuming the coated surfaces. Game lines shall be painted between seal coats and finish coats. Layout in accordance with drawings. For game lines, use current rules of association having jurisdiction. Lines shall be straight with sharp edges in colors selected by architect.

3.04 WALL BASE INSTALLATION

- A. Install vent cove base anchored to walls with base cement or screws. Use pre-molded outside corners and neatly mitered inside corner.

3.05 CLEANING

- A. Clean up all unused materials and debris and remove it from the premises.

END OF SECTION

SECTION 10 14 00

SIGNAGE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Panel signs.
- B. Dimensional letters and numbers.
- C. Cast metal plaques.

1.02 SUBMITTALS

- A. Product data for each type of sign specified, including details of construction relative to materials, dimensions of individual components, profiles and finishes.
- B. Shop drawings showing fabrication and erection of signs, include plans, elevations, and large-scale sections of typical members and other components. show anchors, grounds, layout, reinforcement, accessories and installation details
 - 1. Provide message list for each sign required, including large-scale details of wording and lettering layout.
 - 2. For signs uprooted by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
 - 3. Templates: Furnish full-size spacing templates for individually mounted dimensional letters and numbers.
 - 4. Furnish full-size rubbings for metal plaques.
- C. Samples: Provide the following samples of each sign component for initial selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated.
 - 1. Samples for initial selection of color, pattern, and texture.
 - a. Cast Acrylic Sheet and Plastic Laminate: Manufacturer's color charts consisting of a actual sections of material including the full range of colors available for each material required.
 - b. Aluminum: Samples of each finish type and color, on 6-inch-long sections of extrusions and not less than 4-inch squares of sheet or plate, showing the full range of colors available.

1.03 QUALITY ASSURANCE

- A. Sign Fabricator Qualifications: Firm experienced in producing signs similar to those indicated for this Project, with a record of successful in-service performance, and sufficient production capacity to produce sign units required without causing delay in the Work.
- B. Single-Source Responsibility: For each separate sign type required, obtain signs from one source of a single manufacturer.
- C. Design Concept: The Drawings indicate sizes, profiles, and dimensional requirements of signs and are based on the specific types and models indicated. Sign units by other manufacturers may be considered provided deviations in dimensions and profiles do not change the design concept as judged by the Architect. The burden of proof of equality is on the proposer.
- D. Regulatory Requirements: Comply with requirements of NFPA 101 and ANSI N2.1 for graphic symbols, colors, and printed information for panel signs.
 - 1. Comply with requirements of applicable Building Code, most recent edition.
 - 2. Comply with requirements of ANSI A117.1

1.04 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirement, provide products by one of the following comparable to the basis of design product indicated:
 - 1. Manufacturers of Panel Signs:
 - a. Mohawk Sign Systems (Basis of Design).
 - b. APCO Graphics, Inc.
 - c. Andco Industries Corp.
 - d. ASI Sign Systems, Inc.
 - 2. Manufacturers of Dimensional Letters:
 - a. Mohawk Sign Systems (Basis of Design).
 - b. Andco Industries Corp.
 - c. ASI Sign Systems, Inc.
 - 3. Manufacturers of Cast Plaques:
 - a. Mohawk Sign Systems (Basis of Design).
 - b. Andco Industries Corp.
 - c. ASI Sign Systems.
- B. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MATERIALS

- A. Cast Acrylic Sheet: Provide cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet, with a minimum flexural strength of 16,000 psi when tested according to ASTM D 790, with a minimum allowable continuous service temperature of 176 deg. G, and the following general types:
 - 1. Transparent Sheet: Where sheet material is indicated as "clear", provide colorless sheet in matte finish, with light transmittance of 92 percent, when tested according to the requirements of ASTM D 1003.
 - 2. Opaque Sheet: Where sheet material is indicated as "opaque", provide colored opaque acrylic sheet in colors and finishes as selected from the manufacturer's standards.
- B. Aluminum Sheet: Provide aluminum sheet of alloy and temper recommended by the sign manufacturer for the type of use and finish indicated, and with not less than the strength and durability properties specified in ASTM B 209 for 5005-H15.
- C. Aluminum Castings: Provide aluminum castings of alloy and temper recommended by the sign manufacturer for the casting process used and for the use and finish indicated.
- D. Fasteners: Use concealed fasteners fabricated from the metals that not corrosive to the sign material and mounting surface.
- E. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for exterior installation and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
- F. Colored Coatings for Acrylic Plastic Sheet: Use colored coatings, including inks and paints for copy and background colors, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are nonfading for the application intended.

2.03 PANEL SIGNS

- A. Panel Signs: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
 - 1. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally.
 - 2. Material: Acrylic plastic.
 - 3. Corner Condition: Square corners.
- B. Subsurface Copy: Apply copy to the back face of clear acrylic sheet forming the panel face by process indicated to product precisely formed opaque images free from rough edges.
 - 1. Use reverse silk-screen process to print copy; overspray the copy with an opaque background color coating.
 - 2. Use Dupont Chromalin heat-and-pressure-laminated photopolymer film system to form copy and background color
 - a. The manufacturer has the option of selecting either process indicated above.
 - 3. No raised applied letters or graphics allowed.

2.04 OCCUPANCY SIGNS

- A. Provide two (2) each occupancy signs:
 - 1. Size: 8 x 12 inches.
 - 2. Text: Maximum occupancy load TBD number of persons.
 - 3. Character: Helvetica, 1 inch high.
 - 4. Type: Unframed panel sign.
 - 5. Copy: Raised surface.

2.05 MISCELLANEOUS SIGNS

- A. Stairs.
- B. Accessible Ramp.

2.06 DIMENSIONAL LETTERS AND NUMBERS

- A. Cutout Letters and Numbers: Cut letters and numbers from solid plate material of thickness indicated. Produce precisely cut characters with square cut, smooth edges. Comply with requirements indicated for finish, style, and size.
 - 1. Metal: Aluminum.
 - 2. Letter Height: 8 inches.
 - 3. Letter Style: As selected by Architect from manufacturer's available fonts.

2.07 CAST METAL PLAQUES

- A. Plaques: Castings shall be free from pits, scale, sand holes, or other defects. Comply with requirements specified for metal, border style, background texture, and finish and with requirements shown for thickness, size, shape and copy. Hand-tool and buff borders and raised copy to produce the manufacturer's standard satin polished finish. Refer to the "Finishes" Article for other finish requirements.
 - 1. Metal: Aluminum.
 - 2. Size: 24 x 36 inches.
 - 3. Border Style: Plain bevel.
 - 4. Background Texture: Manufacturer's standard pebble texture.
 - 5. Background Finish: Clear anodized.
 - 6. Letter Style: As selected by Architect from manufacturer's available fonts.

2.08 FINISHES

- A. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors, surface textures or other characteristics related to appearance, provide color matches indicated, or if not indicated, as selected by the Architect from the manufacturer's standards.

- B. Metal Finishes: Comply with NAAMM "Metal Finishes Manual" for finish designations and applications recommendations.
- C. Aluminum Finishes: Finish designations prefixed by "AA" conform to the system established by the Aluminum Association for designating aluminum finishes.
 - 1. Class II Clear Anodized Fine Satin Finish: AA-M31C21A31 (Mechanical Finish: Fine satin directional textured; Chemical Finish: Fine matte etched finish; Anodic Coating: Class II Architectural, clear film thicker than 0.4 mil).

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

- A. General: Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions.
 - 1. Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.
 - 2. Install signs at height indicated below, measured from the finish floor to centerline of sign panel:
 - a. Elementary Schools: 48 inches.
 - 3. Locate panel signs spaced 6 inches from frame of door, or latch side of door, unless otherwise indicated.
- B. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using the methods indicated below:
 - 1. Silicone-Adhesive Mounting: Use liquid silicone adhesive recommended by the sign manufacturer to attach sign units to irregular, porous, or vinyl-covered surfaces. Use double-sided vinyl tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured.
- C. Dimensional Letters and Numbers: Mount letters and numbers using standard fastening methods recommended by the manufacturer for letter form, type of mounting, wall construction, and condition of exposure indicated. Provide heavy paper template to establish letter spacing and to locate holes for fasteners.
 - 1. Projected Mounting: Mount letters at the projection distance from the wall surface indicated.
- D. Cast Metal Plaques: Mount plaques using the standard method recommended by the manufacturer for the type of wall surface indicated.
 - 1. Concealed Mounting: Mount the plaques by inserting threaded studs into tapped lugs on the back of the plaque. Set in predrilled holes filled with quick-setting cement.
- E. Protect from damage until Substantial Completion; repair or replace damaged items.

3.03 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to the manufacturer's instructions. Protect units from damage until acceptance by the Owner.

3.04 INTERIOR PANEL SIGN SCHEDULE

- A. Interior Panel Sign: Classroom Sign.
 - 1. Unit Size: 8 x 8 inch.
 - 2. Permanent raised copy band: Classroom number & braille.
 - 3. Insertable subsurface for teacher name, image.
- B. Interior Panel Sign: Room Identification Sign.
 - 1. Unit Size: 8 x 8 inch.
 - 2. Permanent raised copy band: Room number & braille.

- C. Interior Panel Sign: Restroom Identification Sign.
 - 1. Unit Size: 6 x 8 inch.
 - 2. Permanent raised copy and pictogram: ANSI N2.1.
- D. Interior Panel Sign: Stair Sign.
 - 1. Unit Size: 6 x 9 inch.
 - 2. Sign Construction: See Drawings.
- E. Interior Panel Sign: Elevator Sign.
 - 1. Unit Size: 6 x 9 inch.
 - 2. Sign Construction: See Drawings.
- F. Interior Panel Sign: Wayfinding Sign.
 - 1. Unit Size: 10 x 6 inch.
 - 2. Sign Construction: See Drawings.
- G. Interior Panel Sign: Multi-Gender Restroom Sign.
 - 1. Unit Size: 6 x 6 inch.
 - 2. Permanent raised copy and pictogram: ANSI N2.1.

3.05 INTERIOR PANEL SIGN COPY SCHEDULE

- A. See door and signage schedule on the Drawings.

END OF SECTION

SECTION 10 73 01

ALUMINUM WALL HUNG CANOPY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Design, fabrication, and installation of welded extruded aluminum canopy systems.

1.02 REFERENCES

- A. The Aluminum Association (AA):
 - 1. The Aluminum Design Manual 2000, Specifications & Guidelines for Aluminum Structures.
- B. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum.
 - 2. AAMA 2603, Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - 3. AAMA 2605, Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- C. American Society of Civil Engineers (ASCE):
 - 1. ASCE 7, Minimum Design Loads for Buildings and Other Structures.
- D. American Society for Testing and Materials (ASTM):
 - 1. ASTM B 209, Specification for Aluminum and Aluminum- Alloy Sheet and Plate.
 - 2. ASTM B 221, Specification for Aluminum and Aluminum- Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 3. ASTM C 150, Specification for Portland Cement.
 - 4. ASTM C 404, Specification for Aggregates for Masonry Grout.
- E. American Welding Society (AWS):
 - 1. ANSI/AWS D1.2, Structural Welding Code - Aluminum.

1.03 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Design Walkways in accordance with The Aluminum Design Manual 2000.
 - 2. Comply with the wind requirements of ASCE 7.
 - 3. Provide an all welded extruded aluminum canopy system complete with internal drainage. Non-welded systems are not acceptable.
 - 4. Provide expansion joints to accommodate temperature changes of 120 degrees F. Provide expansion joints with no metal to metal contact.

1.04 SUBMITTALS

- A. Product Data: Manufacturer's product information, specifications, and installation instructions for canopy components and accessories.
- B. Shop Drawings: Include plan dimensions, elevations, and details.
- C. Samples:
 - 1. Selection: Manufacturer's standard range of colors for the finishes selected.
 - 2. Verification: 2-inch-square samples of each finish selected on the substrate specified.
- D. Design Data: Design calculations bearing the seal of a Registered Professional Engineer, licensed in North Carolina. Design calculations shall state that the canopy system design complies with the wind requirements of ASCE 7, the stability criteria of applicable building code, and all other governing criteria.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: At least ten years of experience in the design, fabrication, and erection of extruded aluminum canopy systems.
- B. Installer Qualifications: Have canopy installed by manufacturer, third party installation is not acceptable.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The design is based on products fabricated by: Peachtree Protective Covers, Inc., 1477 Rosedale Drive, Hiram, GA 30141, 770-439-2120, fax 770-439-2122.
 - 1. Comparable products by the following manufacturers also will be acceptable:
 - a. Dittmer Architectural Aluminum.
 - b. Avadek Walkway Cover Systems.
 - c. Mapes Architectural Canopies.
 - 2. Substitutions: Comparable products of other manufacturers will be considered in accordance with Section 01 60 00 - Product Requirements.

2.02 MATERIALS

- A. Aluminum Members: Extruded aluminum, ASTM B 221, 6063 alloy, T6 temper.
- B. Fasteners: Aluminum, 18-8 stainless steel, or 300 series stainless steel.
- C. Protective Coating for Aluminum Columns Embedded in Concrete: Clear acrylic.
- D. Gaskets: Dry seal santoprene pressure type.
- E. Aluminum Flashing: ASTM B 209, Type 3003 H14, 0.040 inch, minimum.

2.03 FABRICATION

- A. General:
 - 1. Shop Assembly: Assemble components in shop to greatest extent possible to minimize field assembly.
 - 2. Welding: In accordance with ANSI/AWS D1.2.
 - 3. Gutter Frame Construction: Factory assemble gutter fascia frames to form a one-piece welded frame. Make welds smooth and uniform using an inert gas shielded arc. Perform suitable edge preparation to assure 100% penetration. Grind welds only where interfering with adjoining structure to allow for flush connection. Field welding is not permitted. Gutter frames constructed by mechanically fastening components together are not acceptable.
 - 4. Deck Construction: Fabricate from extruded modules that interlock in a self-flashing manner. Positively fasten interlocking joints creating a monolithic structural unit capable of developing the full strength of the sections. The fastenings must have minimum shear strength of 350 pounds each.
- B. Beams: Where applicable provide open-top tubular extrusion, top edges thickened for strength and designed to receive deck members in self-flashing manner.
- C. Deck: Extruded self-flashing sections interlocking into a composite unit.
- D. Gutter Fascia: Where applicable provide "j-shaped" gutter fascia capable in manufacturer's standard sizes.
- E. Fascia: Where applicable provide manufacturer's standard fascia in standard sizes.
- F. Hanger Assemblies: Provide extruded aluminum hanger rods in manufacturer's standard shapes and sized to meet the loads required for the canopy.
- G. Factory Finishing: Finish designations prefixed by AA comply with system established by the AAMA for designating aluminum finishes.
 - 1. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.4 mils to 0.7 mils thick), complying with AAMA 611.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that all concrete, masonry, and roofing work in the vicinity is complete and cleaned.

3.02 ERECTION

- A. Erect canopy true to line, level, and plumb.
- B. Provide hairline miters and fitted joints.

3.03 CLEANING

- A. Clean all canopy components promptly after installation.

3.04 PROTECTION

- A. Protect materials during and after installation.

END OF SECTION

SECTION 11 31 00
RESIDENTIAL APPLIANCES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. ~~Microwave.~~
 - 2. Refrigerators.
 - 3. Washer and Dryer.
 - 4. Ice Machine. (Addendum No. 1)

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.

1.03 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Field quality-control reports.
- C. Sample warranties.

1.04 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.05 WARRANTY

- A. Special Warranties: Manufacturer agrees to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 ~~MICROWAVE OVENS~~ (Addendum No. 1)

- A. ~~Microwave Oven:~~
 - 1. ~~Manufacturers: Subject to compliance with requirements, provide products by one of the following:~~
 - a. ~~Amana; a division of Whirlpool Corporation.~~
 - b. ~~General Electric Company (GE Appliances). (Basis of Design)~~
 - c. ~~KitchenAid; a division of Whirlpool Corporation.~~
 - 2. ~~Mounting: Countertop~~
 - 3. ~~Capacity: 2.2 cu. ft.~~
 - 4. ~~Microwave Power Rating: 1200 W.~~
 - 5. ~~Material: Stainless steel.~~
 - 6. ~~Model No. JES2251SJ by General Electric or equal.~~

2.02 REFRIGERATOR/FREEZERS

- A. Refrigerator/Freezer: Two-door refrigerator/freezer with freezer on bottom and complying with AHAM HRF-1.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amana; a division of Whirlpool Corporation.
 - b. General Electric Company (GE Appliances). (Basis of Design)
 - c. KitchenAid; a division of Whirlpool Corporation.
 - 2. Type: Freestanding.
 - 3. Storage Capacity: 23.8 Cu. Ft.

4. General Features:
 - a. Dispenser in door for ice and cold water.
 - b. Interior light in refrigeration compartment.
 - c. Interior light in freezer compartment.
 - d. Automatic icemaker and storage bin.
5. ENERGY STAR: Provide appliances that qualify for the EPA/DOE ENERGY STAR product-labeling program.
6. Model No. GFE24JSKSS by General Electric.

2.03 CLOTHES WASHERS AND DRYERS (Addendum No. 1)

- A. Clothes Washer: Complying with AHAM HLW-1.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amana; a division of Whirlpool Corporation.
 - b. General Electric Company (GE Appliances). (Basis of Design)
 - c. Whirlpool Corporation.
 2. Type: Freestanding, front-loading unit.
 3. Capacity: 4.5 Cu. Ft.
 4. ENERGY STAR: Provide appliances that qualify for the EPA/DOE ENERGY STAR product-labeling program.
 5. Water-Efficient Clothes Washer: Provide clothes washer with modified energy factor greater than or equal to 2.0 and water factor less than 5.5.
 6. Appliance Finish: Enamel.
 7. Model No. GFW430SSMWW by General Electric.
- B. Clothes Dryer: Complying with AHAM HLD-1.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amana; a division of Whirlpool Corporation.
 - b. General Electric Company (GE Appliances). (Basis of Design)
 - c. Whirlpool Corporation.
 2. Type: Freestanding, frontloading, electric.
 3. Capacity: 7.5 Cu. Ft.
 4. Features:
 - a. Interior drum light.
 5. Appliance Finish: Enamel.
 6. Model No. GFD43ESSMWW by General Electric.

2.04 ICE MACHINE (Addendum No. 1)

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. General Electric Company (GE Appliances).
 2. Manitowoc; Model No. UNF-0200 (Basis of Design)
 3. Scotsman Ice Machines.
- B. Condenser Heat of Rejection (BTU per hour): 2,400 (average) on RNS0244.
- C. Compressor: Nominal rating: 1/4 HP on RNS0244.
- D. Refrigerant: R-404A.
- E. Storage: Up to 50 lbs.
- F. Stainless steel cabinet.
- G. Air-cooled.
- H. Ice Production: 187 lbs. over 24 hours.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Built-in Equipment: Securely anchor units to supporting cabinets or countertops with concealed fasteners. Verify that clearances are adequate for proper functioning and that rough openings are completely concealed.
- B. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.

3.02 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
 - 1. Perform visual, mechanical, and electrical inspection and testing for each appliance according to manufacturers' written recommendations. Certify compliance with each manufacturer's appliance-performance parameters.
 - 2. Leak Test: After installation, test for leaks. Repair leaks and retest until no leaks exist.
 - 3. Operational Test: After installation, start units to confirm proper operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.
- B. An appliance will be considered defective if it does not pass tests and inspections.
- C. Prepare test and inspection reports.

END OF SECTION

SECTION 11 60 30

PERFORMANCE SPACE CURTAINS

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes stage curtains and rigging.

1.02 SUBMITTALS

- A. Perform Field Measurements and include field verified dimension in submittal drawings
1. Verify actual stage dimensions.
 2. Verify actual support steel dimensions.
 3. Coordinate location of support pipe battens and other hardware with fire sprinkler pipes and heads, plumbing system piping, conduit, HVAC ducting, roof smoke hatches and other equipment in the areas of stage rigging.
- B. Submit the following under provisions of Division 01 and according to the Conditions of the Contract:
1. Fully dimensioned shop drawings in "D" size (or digital CAD drawings in .dwg or .pdf format with full size print capability). Drawings are to include plans, elevations and detail sections of typical stage equipment systems and elements, estimated building loads imposed by the furnished equipment, anchor and fastening detail 1s, miscellaneous equipment details and any additional information required to evaluate the completeness and correctness of the rigging systems. Deviations from specified equipment are to be "starred" and noted on the submittal drawings. Only deviations that upgrade the quality of the equipment will be considered.
 2. Include structural analysis data for rigging signed and sealed by the qualified professional engineer responsible for their preparation.
 3. Samples: For each type of fabric from dye lot to be used for the Work, with specified treatments applied, and showing complete pattern and texture repeat, if any.
 4. Product certificates.
 5. Submit the following within 30 days of the completion of installation:
 - a. Three sets of operations and maintenance documentation.
 - b. Three sets of as-built drawings in "B" size (or CAD drawings in .dwg or .pdf format with full size print capability).
 - c. Equipment warranty documentation.

1.03 QUALITY ASSURANCE

- A. Stage Equipment and Installer Qualifications
1. A single rigging hardware manufacturer under a single contract will furnish and install all rigging hardware components and stage curtains.
 2. The Contractor must have successfully completed at least ten (10) similar projects within the last ten years. Project location, completion scope of work and Owner/Specifier contact must be furnished upon request.
 3. The Contractor must submit written evidence that he maintains a fully equipped field service organization capable of providing prompt inspection, service and repairs of the installed system.
- B. Regulatory Requirements:
1. Comply with governing National, State and City regulations.
- C. Standards
1. All equipment, where standards have been established, must be built to recognized standard. Standards are established by the following organizations:
 - a. Underwriters Laboratories.
 - b. National Electric Code.

- c. Uniform Building Code.
 - d. National Fire Protection Agency.
 - e. Occupational Safety and Health Administration
 - f. United States Institute for Theatre Technology.
 - g. Entertainment Services and Technology Association Technical Standards.
 - h. "Specifications for Design, Fabrication and Erection of Structural Steel for Buildings," of the American Institute of Steel Construction, 6th Edition.
 - i. "Wire Rope User's Manual" of the Wire Rope Technical Board, Third Edition.
2. No deviation is permitted from the requirement for UL Listing. For curtain machine operators, the entire machine must be UL or ETL listed. Listing of only the control box or components of the curtain machine operator is not acceptable.

1.04 WARRANTY

- A. Special Warranty for Rigging Equipment: Manufacturer's standard form in which manufacturer agrees to repair or replace components of rigging equipment that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Two (2) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 CURTAIN FABRICS

- A. General: Provide fabrics inherently and permanently flame resistant or chemically flame resistant by immersion treatment to comply with requirements indicated. Provide fabrics from the same dye lot.
- B. Woven Cotton Velour: Napped fabric of 100 percent cotton; 54-inch minimum width.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. Medium Weight: Fabric weighing not less than 20 oz./ linear yard before flame-retardant treatment, with pile height not less than 75 mils.
 - 1) Frankel Associates, Inc; 650.
 - 2) JB Martin Ltd.; #2603 Concertino.
 - 3) J.L. de Ball America, Inc.; #3113 8 Sydney.
 - 4) KM Fabrics, Inc.; Marvel.
 - 5) Valley Forge Fabrics, Inc.; 2020 Velour.
 - b. Colors: As selected by Architect from manufacturer's full range.
- C. Polyester Velour: Napped fabric of 100 percent polyester weighing not less than 23 oz./linear yard, with pile height approximately 75 mils; inherently and permanent flame resistant; 54-inch minimum width.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. J.L. de Ball America, Inc.; Diablo.
 - b. KM Fabrics, Inc.; Prestige.
 3. Colors: As selected by Architect from manufacturer's full range.
- D. Lining: Yarn-dyed denim cloth of 100 percent cotton; woven in a warp-faced twill; 54-inch minimum width.

2.02 CURTAIN FABRICATION

- A. General: Affix permanent label, stating compliance with requirements of authorities having jurisdiction, in accessible location on curtain not visible to audience. Provide vertical seams, unless otherwise indicated. Arrange vertical seams so they do not fall on faces of pleats. Do not use fabric cuts less than one-half width.

1. Vertical Hems: Provide vertical hems not less than 2 inches wide, with not less than a 1-inch tuck, and machine-sewn with no sewage material visible from front of curtain. Sew open ends of hems closed.
 2. Leading Edge Turnbacks: Provide turnbacks formed by folding not less than one-half width of face fabric back, with not less than a 1-inch tuck and secured by sewing turnbacks vertically.
 3. Top Hems: Reinforce top hems by double-stitching 3- 1/2-inch with heavy Jute webbing to top edge with not less than 2 inches of face fabric turned under.
 4. Pleats: Provide 50 percent fullness in curtains, exclusive of turnbacks and hems, by sewing additional material into 3-inch double-stitched box pleats spaced at 12 inches o.c. along top hem reinforcement.
 5. Pleats: Provide 100 percent fullness in curtains, exclusive of turnbacks and hems, by sewing additional material into 6-inch double-stitched box pleats spaced at 12 inches o.c. along top hem reinforcement.
 6. Gromets: Brass, No. 3, centered on each box pleat and 1 inch (25 mm) from corner of curtain, for snaps or S-hooks.
 - a. For black curtains, provide brass or aluminum grommets with black finish.
 7. Bottom Hems:
 - a. For curtains that do not hang to the floor, provide weirs not less than 3 inches deep with 3/4-inch weight tape.
 - b. For floor-length curtains, provide hems not less than 6 inches deep with 1-inch weight tape. Sew open ends of hems closed.
 8. Velvet Curtains: Fabricate with the fabric nap down.
 9. Lining: Provide lining for each curtain in same fullness as face fabric and finished 2 inches shorter than face fabric. Attach lining to face fabric along bottom and side seams with 4-inch long strips of heavy woven cotton tape.
 10. Valance curtain: Same material and fabrication as stage curtain.
- B. Tie Lines: Braided soft cotton, black or white to best match curtain; not less than 5/8 inch wide by 36 inches long.

2.03 RIGGING

- A. S-Hooks: Track manufacturer's heavy-duty plated-wire hooks.
 1. Snap Hooks: Track manufacturer's heavy-duty hooks.
- B. Supports, Clamps, and Anchors: Sheet steel in manufacturer's standard thicknesses, galvanized after fabrication according to ASTM A 153/A 153M, Class B.
- C. Trim and Support Cable: 1/4-inch diameter, 7x9 galvanized steel aircraft cable with a breaking strength of 7000 lb. Provide fittings complying with cable manufacturer's written recommendations for size, number, and method of installation, including a drop-forged galvanized turnbuckle to allow for leveling.
- D. Inserts, Bolts, Rivets, and Fasteners: Manufacturer's standard corrosion-resistant fasteners.
- E. Steel Track: Fabricate of roll-formed, galvanized, commercial-quality, zinc-coated steel sheet; complying with ASTM A 653/A 653M, G60 (Z180) coating designation, with continuous bottom slot, and with each half of track in one continuous piece.
 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Automatic Devices Company; Silent Steel #282.
 - b. H & H Specialties Inc.; 400 series.
 2. Minimum Base-Metal Thickness: Not less than 0.0528 inch; 0.0677 inch.
 3. Approximate Maximum Curtain Weight Capacity: 50 pounds / linear foot.

2.04 STEEL-CURTAIN-TRACK FABRICATION

- A. Heavy-Duty Track System: Provide single curtain carriers of plated steel with a pair of nylon-tired ball-bearing wheels riveted parallel to body. Equip carriers with neoprene or rubber bumper to reduce noise, and heavy-duty, plated-steel swivel eye and manufacturer's standard trim chain for attaching curtain snap or S-hook. Provide end stops for track. Design adjustable floor block to maintain proper tension on operating line.
 - 1. Operating Line: Manufacturer's standard.
 - 2. Track Lap Clamp: Metal to match track channel.
 - 3. Curtain Carriers: For track spaced at 12 inches (300 mm) o.c.
 - 4. Fold Guide: Equip carriers with rear-fold or backpack guide and rubber spacers to permit offstage curtain folding, sized for use with operating line if any.

PART 3 - EXECUTION

3.01 TRACK INSTALLATION

- A. Roof Structure -Mounted Tracks: Provide pipe battens, chain and other suspension hardware as required to support track at spacing required for smooth operation of the track assembly.
- B. Wall-Mounted Tracks: Install tracks by suspending from manufacturer's special bracket clamps securely mounted to wall construction at spacing, according to manufacturer's written instructions.
- C. Spacing: Do not exceed the following dimensions between supports:
 - 1. Heavy-Duty Track: 48 inches.
- D. Install track for center-parting curtains with not less than 24-inch overlap of track sections at center, supported by special lap clamps.

3.02 CURTAIN INSTALLATION

- A. Track Hung: Secure curtains to track carriers with track manufacturer's special heavy-duty S-hooks or snap hooks.

3.03 DEMONSTRATION

- A. Engage a factory-authorized service representative to test system and to train Owner's personnel to rig, adjust, operate, and maintain stage curtains, tracks, and draw-curtain machines.

END OF SECTION

SECTION 11 66 23
GYMNASIUM EQUIPMENT

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Basketball equipment.
 - 2. Volleyball equipment.
 - 3. Safety pads.
 - 4. Scoreboard and shot clocks. (Addendum No. 1)
- B. Related Requirements:
 - 1. Section 03 30 00 "Cast-in-Place Concrete" for installation of floor insert sleeves to be cast in concrete slabs.
 - 2. Section 09 64 66 "Wood Athletic Flooring" for game lines and markers.
 - 3. Section 11 66 53 "Gymnasium Dividers."

1.02 DEFINITIONS

- A. FIBA: Federation Internationale de Basketball Amateur (The International Basketball Federation).
- B. FIVB: Federation Internationale de Volleyball (The International Volleyball Federation).
- C. NCAA: The National Collegiate Athletic Association.
- D. NFHS: National Federation of State High School Associations.
- E. USAV: USA Volleyball.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. If applicable, include assembly, disassembly, and storage instructions for removable equipment.
 - 2. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.
- B. Shop Drawings: For gymnasium equipment, including scoreboard.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Include details of field assembly for removable equipment, connections, installation, mountings, floor inserts, attachments to other work, and operational clearances.
 - 3. Include transport and storage accessories for removable equipment.
- C. Samples: For each exposed product and for each item and color specified.
- D. Samples for Initial Selection: For each type of gymnasium equipment.
- E. Samples for Verification: For the following products:
 - 1. Basketball Net: Full size.
 - 2. Volleyball Badminton Net: Minimum 12-inch (305-mm) length by full height, including one edge and net accessories.
 - 3. Volleyball Badminton Floor Insert: Full-size unit.
 - 4. Volleyball Badminton Post Standard: Full-size unit with net tensioner.
 - 5. Pad Fabric: Wall padding not less than 3 inches (76 mm) square, and corner and column Samples not less than 3 inches (76 mm) long, with specified treatments applied. Mark face of material.

1.04 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Court layout plans, drawn to scale, and coordinated with floor inserts, game lines, and markers applied to finished flooring.
- B. Qualification Data: For Installer.

- C. Product Certificates: For each type of gymnasium equipment.
- D. Sample Warranty: For special warranty.

1.05 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For gymnasium equipment to include in emergency, operation, and maintenance manuals.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.07 FIELD CONDITIONS

- A. Environmental Limitations: Do not install gymnasium equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Verify position and elevation of floor inserts and layout for gymnasium equipment.

1.08 COORDINATION

- A. Coordinate installation of floor inserts with structural floors and finish flooring installation and with court layout and game lines and markers on finish flooring.
- B. Coordinate layout and installation of overhead-supported gymnasium equipment and suspension-system components with other construction including light fixtures, HVAC equipment, fire-suppression-system components, and partition assemblies.

1.09 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of gymnasium equipment that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Basketball backboard failures including glass breakage.
 - b. Faulty operation of basketball backstops.
 - 2. Warranty Period: 10 years from date of Final Acceptance.

PART 2 - PRODUCTS

2.01 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain gymnasium equipment from single source from single manufacturer.

2.02 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Basketball backstops and anchors shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

2.03 BASKETBALL EQUIPMENT

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Draper Inc.
 - 2. Performance Sports Systems. (Basis of Design)
 - 3. Porter Athletic Equipment Company.
 - 4. Progressive Sports Construction Group.
- B. General: Provide equipment complying with requirements in NCAA's "Men's and Women's Basketball Rules."
- C. Protruding fasteners or exposed bolt heads on front face of backboards are not permitted.
- D. Provide manufacturer's recommended connections complying with Section 05 50 00 "Metal Fabrications" of size and type required to transfer loads to building structure.
- E. Ceiling Suspended Forward Fold Backstops:

1. Model No. 3107 "Single Post" ceiling suspended, forward fold, front braced backstop as manufactured by Performance Sports Systems, Noblesville, Indiana.
 2. "Single Post" vertical main mast assembly shall be constructed of 6-5/8" O.D. (.120" wall ASTM A-500 Grade B) structural steel tubing with diagonal side sway braces of 2 1/2" X 1 1/2" X14 gauge ASTM A-513 rectangular steel tube sway braces miter cut and welded in place to a top horizontal 4" x 1 1/2" x 0.18" web ASTM A-36 steel channel. Sway braces shall attach to mast above backboard for maximum rigidity. Mast and sway braces shall be welded for ceiling heights up to thirty (30) feet. Mast and sway braces shall be clamped for ceiling heights over thirty (30) feet (Model 3106). Backstop shall be front braced and fold forward. Front brace assembly shall have a fully adjustable folding knee joint allowing for exact playing position and maintenance free operation.
 3. Goal shall be mounted directly through backboard into a heavy structural steel weldment which shall be clamped to vertical 6-5/8" O.D. center mast. (This direct attachment feature transfers the load on the goal directly to the mast pipe minimizing stress to glass backboard). Goal and backboard mounting design shall conform to NCAA, NFSHSA and FIBA regulations
 4. The all-welded "Single Post" design shall be suspended from custom adjustable hangers with bronze bushings designed to be offset no less than 4" behind the center line of gravity of mast, providing for proper weighting of the assembly and insuring that unit locks securely and automatically into playing position.
 5. Backstop shall be supported from 3-1/2" O.D. pipe anchored to roof framing members by means of heavy formed steel support fittings. Superstructure pipes to be reinforced with special bridging or bracing when truss centers exceed spans of fourteen (14) feet. Each attachment clamp must be capable of supporting static loads of at least 10,000 lbs. with no deflection.
 6. All metal parts shall have factory applied powder coat finish in standard black. Available colors: white, blue, red, gray, and yellow.
 7. Basketball Goals: Complete with flanges, braces, attachment plate, and evenly spaced loops welded around underside of ring.
 - a. Single-Rim Basket Ring Competition Goal: Materials, dimensions, and fabrication complying with referenced rules.
 - b. Type: Movable, breakaway design with manufacturer's standard breakaway mechanism and rebound characteristics identical to those of fixed, nonmovable ring.
 - c. Breakaway Characteristics: Positive-lock movable breakaway design, with manufacturer's standard breakaway mechanism including preset pressure release, set to release at 230-lb (105-kg) load, and automatic reset. Provide movable ring with rebound characteristics identical to those of fixed, nonmovable ring.
 - d. Field Adjustment: Provide rim that is field-adjustable for rebound elasticity without being removed from the backboard.
 - e. Mount: Front.
 - f. Net Attachment: No-tie loops for attaching net to rim without tying.
 - g. Finish: Polyester powder-coat finish.
 8. Basketball Nets: 12-loop-mesh net, between 15 and 18 inches (380 to 460 mm) long, sized to fit rim diameter, and as follows:
 - a. Cord: Made from white nylon.
 9. Backboard Safety Pads: Designed for backboard thickness indicated and extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports as required by referenced rules.
 - a. Attachment: Bolt on.
 - b. Color: As selected by Architect from manufacturer's full range.
- F. Ceiling Suspended Rear Fold Backstops:
1. Model No. 3105 "Single Post" ceiling suspended, rear fold, rear braced backstop as manufactured by Performance Sports System., Noblesville, Indiana.

2. "Single Post" vertical main mast assembly shall be constructed of 6-5/8" O.D. (.120" wall ASTM A-500 Grade B) structural steel tubing with diagonal side sway braces of 2 1/2" X 1 1/2" X14 gauge ASTM A-513 rectangular steel tube sway braces miter cut and welded in place to a top horizontal 4" x 1 1/2" x 0.18" web ASTM A-36 steel channel. Sway braces shall attach to mast above backboard for maximum rigidity. Mast and sway braces shall be welded for ceiling heights up to thirty (30) feet. Mast and sway braces shall be clamped for ceiling heights over thirty (30) feet (Model 3104). Backstop shall be rear braced and fold to rear. Rear brace assembly shall have fully adjustable folding knee joint allowing for exact playing position and maintenance free operation.
 3. Goal shall be mounted directly through backboard into a heavy structural steel weldment which shall be clamped to the vertical 6-5/8" O.D. center mast. (This direct attachment feature transfers the load on the goal directly to the mast to minimize stress to glass backboard). Goal and backboard mounting design shall conform to NCAA, NFSHSA and FIBA regulations
 4. The all-welded "Single Post" design shall be suspended from custom adjustable hangers with bronze bushings designed to be offset no less than 4" behind the center line of gravity of mast, providing for proper weighting of the assembly and insuring that unit locks securely and automatically into playing position.
 5. Backstop shall be supported from 3-1/2" O.D. pipe anchored to roof framing members by means of heavy formed steel support fittings. Superstructure pipes to be reinforced with special bridging or bracing when truss centers exceed spans of fourteen (14) feet. Each attachment clamp must be capable of supporting static loads of at least 10,000 lbs. with no deflection.
 6. All metal parts shall have factory applied powder coat finish in standard black. Available colors: white, blue, red, gray, and yellow.
 7. Basketball Goals: Complete with flanges, braces, attachment plate, and evenly spaced loops welded around underside of ring.
 - a. Single-Rim Basket Ring Competition Goal: Materials, dimensions, and fabrication complying with referenced rules.
 - b. Type: Movable, breakaway design with manufacturer's standard breakaway mechanism and rebound characteristics identical to those of fixed, nonmovable ring.
 - c. Breakaway Characteristics: Positive-lock movable breakaway design, with manufacturer's standard breakaway mechanism including preset pressure release, set to release at 230-lb (105-kg) load, and automatic reset. Provide movable ring with rebound characteristics identical to those of fixed, nonmovable ring.
 - d. Field Adjustment: Provide rim that is field-adjustable for rebound elasticity without being removed from the backboard.
 - e. Mount: Front.
 - f. Net Attachment: No-tie loops for attaching net to rim without tying.
 - g. Finish: Polyester powder-coat finish.
 8. Basketball Nets: 12-loop-mesh net, between 15 and 18 inches (380 to 460 mm) long, sized to fit rim diameter, and as follows:
 - a. Cord: Made from white nylon.
 9. Backboard Safety Pads: Designed for backboard thickness indicated and extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports as required by referenced rules.
 - a. Attachment: Bolt on.
 - b. Color: As selected by Architect from manufacturer's full range.
- G. Electric Winch:
1. Model No. 1194 Electric Backstop Winch by Performance Sports Systems, Noblesville, IN.
 2. Electric winch shall be a definite purpose electric winch designed specifically for use of basketball backstop positioning. Winch shall be worm gear type designed to hold backstop at any position during operation. Winch will be driven by a 3/4 HP, 120-volt, 60 hertz, single-phase instant reversing electric motor with thermal overload protection (governed to

- stall at 14 amps to prevent overload) and manufactured to NEMA specifications. Winch shall develop over 1000 lbs. of line pull at a speed of nine (9) feet per minute.
3. Winch shall have high-speed worm gearing to support both radial and thrust loads, and positive locking double reduction gear drive providing 200:1 reduction rate for strong cable hold under load, eliminating need for special brakes. Sealed gear case for lifetime maintenance free operation.
 4. Winch shall incorporate a large 4-1/2" diameter grooved drum to assure long cable life and proper coiling, with a tension roller for correct cable tracking even in slack conditions. Drum shall be grooved for 1/4" 7 x 19 galvanized aircraft cable to facilitate smooth take-up and proper spooling of cable. Drum shall allow 25 feet of travel on one (1) layer and 40 feet on two (2) layers.
 5. Winch shall utilize a flush mounted single keyed switch to both raise and lower backstop (eliminating the need for two keys). Key switch shall be located so that the backstop is in full view of authorized operator at all times. Optional wireless remote control or keypad control operation available.
 6. Winch shall have five (5) year warranty against material defects and workmanship. Winches with less than a five (5) year warranty shall not be considered equal.
- H. Electric Basketball Backstop Height Adjuster:
1. Model No. 1171 Electric Adjust-A-Goal by Performance Sports System, Noblesville, IN.
 2. Electric height adjuster shall be manufactured of steel using an electrically operated linear actuator to raise and lower backboard from 8' to 10' off of finished floor. Linear actuator shall be powered by a 115 volt single-phase motor and contain built in limit switches to ensure safe operation and positive stopping at 8' and 10' heights. Adjust-A-Goal features a direct goal attachment to transfers load of play directly through backboard to support structure. Adjust-A-Goal shall be operated with a flush mounted single keyed switch (eliminating the need to two keys) or portable power wand. Optional wireless remote control or keypad control operation shall be provided.

2.04 VOLLEYBALL EQUIPMENT

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Draper Manufacturing Inc.
 2. Performance Sports Systems. (Basis of Design)
 3. Porter Athletic Equipment Company.
 4. Progressive Sports Construction Group.
 5. Sports Imports.
- B. Materials:
1. Structural steel tubing: Steel, mechanical, round tubing conforming to ASTM A500.
 2. Extruded aluminum tubing: Schedule 80, ASTM B221, alloy 6063 Temper T5.
 3. Aluminum castings: ASTM B85.
- C. Floor Sleeves and Covers:
1. Floor sleeve: Round, mechanical steel tube sleeve welded to steel anchor plate for casting in concrete floor to receive volleyball standard; Floor Sleeve 6400 as manufactured by Performance Sports Systems.
 2. Size: 3-1/2 inches inside diameter by 8-1/2 inches tube and 4 inches square anchor plate.
 3. Cover plate: High Strength Polymer recessed mounting flange and 5 inch diameter chrome plated cover.
 - a. Cover installed with flat head wood screws.
 - b. Opening diameter: 4-1/8 inches.

- D. Floor Anchors:
1. Type: Floor anchor to be recessed in wood flooring on concrete substrate and used for securing portable game standards.
 2. Construction: Chrome plated, one-piece anchor with spring-loaded flush fairings and adjustment bolt and nut and designed for installation in concrete slab with fast setting grout.
 3. Size: 4-11/16 inches long with 3-1/2 inch diameter floor plate provided with wood screws for anchoring to wood floor.

2.05 SAFETY PADS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Basketball Products International.
 2. Douglas Sports.
 3. Draper Manufacturing Inc.
 4. Performance Sports Systems. (Basis of Design)
 5. Porter Athletic Equipment Company.
 6. Progressive Sports Construction Group.
 7. UCS Spirit.
- B. Safety Pad Surface-Burning Characteristics: ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
1. Flame-Spread Index: 25 or less.
 2. Smoke-Developed Index: 450 or less.
- C. Pad Coverings: Provide safety pad fabric covering that is fabricated from puncture- and tear-resistant, PVC-coated polyester or nylon-reinforced PVC fabric, not less than 14-oz./sq. yd (475-g/sq. m) and treated with fungicide for mildew resistance; with surface-burning characteristics indicated.
- D. Wall Safety Pads: Padded wall wainscot panels designed to be attached in a continuous row; each panel section consisting of fill laminated to backer board with visible surfaces fully covered by seamless fabric covering, free of sag and wrinkles and firmly attached to back of backer board.
1. Backer Board: Not less than 3/8-inch- (9.5-mm-) thick fire-retardant-treated plywood according to AWPA U1, UCFA Fire Retardant Interior.
 2. Fill: Multiple-impact-resistant foam not less than 2-inch- (50-mm-) thick bonded polyurethane, 6.0-lb/cu. ft. (96-lb/cu. ft. (96-kg/cu. m) density.
 3. Size: Each panel section, 24 inches (600 mm) wide by not less than 72 inches (1800 mm) long.
 4. Number of Modular Panel Sections: As indicated.
 5. Installation Method: Concealed mounting Z-clips.
 6. Fabric Covering Color(s): As selected by Architect from manufacturer's full range for one color.
- E. Corner Wall Safety Pads: Wall corner pad consisting of not less than 2-inch- thick, multiple-impact-resistant, closed-cell, polyethylene-foam filler, covered on both sides and all edges by fabric covering with backer board and manufacturer's standard anchorage to wall.
1. Length: Each pad matching length of wall safety pads.
 2. Fabric Covering Color(s): As selected by Architect from manufacturer's full range for one color.

- F. Column Safety Pads: Pads covering exposed flange of columns to height indicated, consisting of not less than 2-inch-thick, multiple-impact-resistant, closed-cell, polyethylene-foam filler, covered on both sides and all edges by fabric covering with self-adhesive, hook-and-loop attachment to exposed face of column.
 - 1. Length: Each pad matching length of wall safety pads.
 - 2. Fabric Covering Color(s): Match Architect's sample As selected by Architect from manufacturer's full range for one color.
- G. Cut-out Trim: Provide manufacturer's standard flanged cut-out trim kits for fitting pads around switches, receptacles, and other obstructions.
 - 1. Color: As selected by the Architect
- H. Basis of Design: Performance Sports Systems as follows:
 - 1. Column Padding: Model No. 4510.
 - 2. Wall Padding: Model No. 4199.

2.06 SCOREBOARD (ADDENDUM NO. 1)

- A. Manufacturers:
 - 1. Daktronics, Inc.
 - 2. Electro-Mech.
 - 3. Nevco.
 - 4. Performance Sports Systems; Model No. GS-220 (Basis of Design)
 - 5. Varsity Scoreboards.
- B. Overall Dimensions: 7 feet long x 3 feet 6 inches wide by 8 inches deep.
- C. Weight:
 - 1. Hanging Weight: 110 lbs.
 - 2. Shipping Weight: 200 lbs.
- D. Construction: 22 gauge galvaneal steel cainet with powder coat finish.
- E. Power Requirements:
 - 1. 20-amp, 120 volt, 60-hertz, grounded AC circuit conneted to an ON/OFF switch and/or circuit breaker.
- F. Controller: Standard LCD controller powered by 12V DC Adapter or an optional internal battery.
- G. Scoring Information Displayed:
 - 1. HOME and GUEST: 3-digit displays, 0-199.
 - 2. CLOCK: 4-digit displays, counts up or down, 99:59-00:00 or 00:00-99.59.
 - 3. PERIOD: 1-digit display, 1-9.
 - 4. BONUS: 2-2 inch dot indicator.
 - 5. POSSESSION: 2 - 2 inch arrow indicator.
- H. Scoreboard Controller: Manufacturer's standard.

2.07 SHOT CLOCKS (ADDENDUM NO. 1)

- A. Manufacturers:
 - 1. Daktronics, Inc.
 - 2. Electro-Mech.
 - 3. Nevco.
 - 4. Performance Sports Systems; Model No. GS-202 (Basis of Design)
 - 5. Varsity Scoreboards.
- B. Overall Dimensions: 26 inches high by 26 inches wide x 8 inches deep (each clock)
- C. Weight:
 - 1. Hanging Weight: 35 lbs. (each clock)
 - 2. Shipping Weight: 60 lbs. (each clock)
- D. Construction: 22 gauge galvaneal steel cainet with powder coat finish.

- E. Power Requirements: (Each Clock)
 - 1. 20-amp, 120 volt, 60-hertz, grounded AC circuit conneted to an ON/OFF switch and/or circuit breaker.
- F. Controller: Standard LCD controller powered by 12V DC Adapter or an optional internal battery.
- G. Information Displayed:
 - 1. 15 inch 2-digit countdown clock (59-0)
 - 2. 4 inch 4-digit countdown clock (99.59-00:00)
- H. Shot Clock Digits:
 - 1. 15 inches high, 100,000 hour-rated super bright red LED (light emitting diode) displays; low power consumption, increased visibility and no maintenance; no light bulbs to replace ever.
 - 2. 4 inches high, 100,000 hour-rated super right red LED (Light emitting diode) display; lower power consumption, increased visibility and no maintenance; no light bulbs to replace ever.
- I. Shot Clock Control: Manufacturer's standard.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for play court layout, alignment of mounting substrates, installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance of the Work.
 - 1. Verify critical dimensions.
 - 2. Examine supporting structure, [subgrades,]subfloors, and footings below finished floor.
 - 3. Examine wall assemblies, where reinforced to receive anchors and fasteners, to verify that locations of concealed reinforcements are clearly marked. Locate reinforcements and mark locations.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions and competition rules indicated for each type of gymnasium equipment. Complete equipment field assembly where required.
- B. Unless otherwise indicated, install gymnasium equipment after other finishing operations, including painting, are completed.
- C. Permanently Placed Gymnasium Equipment and Components: Install rigid, level, plumb, square, and true; anchored securely to supporting structure; positioned at locations and elevations indicated; in proper relation to adjacent construction; and aligned with court layout.
 - 1. Floor Insert Location: Coordinate location with application of game lines and markers.
 - 2. Floor Insert Elevation: Coordinate installed heights of floor insert with installation of finish flooring and floor-plate type.
 - 3. Operating Gymnasium Equipment: Verify clearances for movable components of gymnasium equipment throughout entire range of operation and for access to operating components.
- D. Floor Insert Setting: Position sleeve in oversized, recessed voids in concrete slabs. Clean voids of debris. Fill void around sleeves with grout, mixed and placed to comply with grout manufacturer's written instructions. Protect portion of sleeve above subfloor from splatter. Verify that sleeves are set plumb, aligned, and at correct height and spacing; hold in position during placement and finishing operations until grout is sufficiently cured. Set insert so top surface of completed unit is flush with finished flooring surface.

- E. Wall Corner Column Safety Pads: Mount with bottom edge at 4 inches (102 mm) above finished floor.
- F. Cut-out Trim: Limit cuts in face of padding from trim unit's corner-to-corner outside dimensions. Install with ends of cuts concealed behind trim flange.
- G. Anchoring to In-Place Construction: Use anchors and fasteners where necessary to secure built-in and permanently placed gymnasium equipment to structural support and to properly transfer load to in-place construction.
- H. Connections: Connect electric operators to building electrical system.
- I. Removable Gymnasium Equipment and Components: Assemble in place to verify that equipment and components are complete and in proper working order. Instruct Owner's designated personnel in properly handling, assembling, adjusting, disassembling, transporting, storing, and maintaining units. Disassemble removable gymnasium equipment after assembled configuration is approved by [Architect] [Owner], and store units in location indicated on Drawings.

3.03 ADJUSTING

- A. Adjust movable components of gymnasium equipment to operate safely, smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and moving parts.

3.04 CLEANING

- A. After completing gymnasium equipment installation, inspect components. Remove spots, dirt, and debris and touch up damaged shop-applied finishes according to manufacturer's written instructions.
- B. Replace gymnasium equipment and finishes that cannot be cleaned and repaired, in a manner approved by Architect, before time of Substantial Completion.

3.05 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain gymnasium equipment.

END OF SECTION



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ADDENDUM NUMBER: 1

BRUNSWICK COUNTY SCHOOLS

WINNABOW, NC

TOWN CREEK MIDDLE SCHOOL

PROJECT NUMBER 1720601.00

June 7, 2018

NOTICE TO CONTRACTORS

This Addendum issued prior to receipt of Bid shall and does hereby become a part of the Construction Documents for the above project.

All principal Contractors shall be responsible for seeing that their Subcontractors are properly apprised of the contents of this Addendum.

All information contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original Bidding Documents dated 03/29/18 and all previous addenda.

All Contractors shall acknowledge receipt of this Addendum in the space provided in the Proposal Form. Failure to do so may subject Bidder to disqualification.

A. CHANGES TO PRIOR ADDENDA

None.

B. CHANGES TO BIDDING REQUIREMENT

None.

C. CHANGES TO CONDITIONS OF THE CONTRACT

None.

D. CHANGES TO SPECIFICATIONS

SECTION 00 01 10 – TABLE OF CONTENTS

“DIVISION 08 OPENINGS”

Removed:

Section 08 33 23 Overhead Coiling Doors “

“DIVISION 10 SPECIALTIES”

Added:

Section 10 73 01 Aluminum Wall Hung Canopy

“DIVISION 11 EQUIPMENT”

Added:

Section 11 66 30 Performance Space Curtains

June 7, 2018

Page 2

SECTION 06 20 23– INTERIOR FINISH CARPENTRY

PART 2 – Products

Add the following item 2.04.”

PART 3 – Execution

Add the following item 3.04.”

SECTION 07 54 19 – POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 – General

Sub-part 1.01

”1.01 SUMMARY

Removed item 1 from sub-part A

Replace item 2 from sub-part A

B. Mechanically fastened polyvinyl-chloride (PVC) roofing system.

PART 3 – Execution

Replace the following Sub-part 3.06

”3.06 MECHANICALLY FASTENED ROOFING INSTALLATION

Replace in full items A-H.”

Remove the following Sub-part 3.07

”3.07 ADHERED ROOFING INSTALLATION

Remove in full.”

SECTION 09 64 66 – WOOD ATHLETIC FLOORING

PART 1 – General

Sub-part 1.01

”1.01 SUMMARY

Replaced item B to read as follow:

B. *Gymnasium protective covering and storage.*

PART 2 – Product

Sub-part 2.02

”2.02 MATERIAL

Added item H.

SECTION 10 14 00 – SIGNAGE

Add section in full

SECTION 10 73 01 – ALUMINUM WALL HUNG CANOPY

Add section in full

SECTION 11 31 00 – RESIDENTIAL APPLIANCES

PART 1 – General

Sub-part 1.01

”1.01 SUMMARY

Removed item 1 from sub-part A

Added item 2-3 from sub-part A”

PART 2 – Products

Sub-part 2.01

”2.01 MICROWAVE OVENS

Remove in full.”

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PART 2 – Products
Sub-part 2.03
"2.03 CLOTHES WASHERS AND DRYERS
Added in full."

PART 2 – Products
Sub-part 2.04
"2.04 ICE MACHINE
Added in full."

SECTION 11 60 30– PERFORMANCE SPACE CURTAINS
Add section in full

SECTION 11 66 23– GYMNASIUM EQUIPMENT

PART 1 – General
Sub-part 1.01
"1.01 SUMMARY
Added item 4 from sub-part A"

PART 2 – Products
Sub-part 2.06
"2.06 SCOREBOARD
Added sub-part in full."

PART 2 – Products
Sub-part 2.07
"2.07 SHOT CLOCKS
Added sub-part in full."

E. CHANGES TO DRAWINGS

GENERAL:

SHEET – G-001a SHEET INDEX

- a. Sheet reissued dated 6/7/18. Updated for Addendum items.

SHEET – G-001b SHEET INDEX

- a. Sheet reissued dated 6/7/18. Updated for Addendum items.

SHEET – G-021 BUILDING CODE ANALYSIS

- a. Sheet reissued dated 6/7/18. Plumbing requirements table updated, drinking fountain addition..

SHEET – G-031 GENERAL NOTES / ABBREVIATIONS / LEGENDS

- a. Sheet reissued dated 6/7/18. RFI # 0061, 0069.

SHEET – G-041 INTERIOR WALL TYPES

- a. Sheet reissued dated 6/7/18. RFI # 0052.

STRUCTURAL:

SHEET – S-001 GENERAL NOTES

- a. Sheet reissued dated 6/7/18. Updated masonry notes per RFI #0040 and clarified other notes.

SHEET – S-101Bn FOUNDATION PLAN - GYM

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- a. Sheet reissued dated 6/7/18. Updated foundations for cantilevered stage front per RFI #0041.
- b. Added thickened slab footing for full height wall section.

SHEET – S-102Bn STAGE FRAMING AND ENLARGED PLAN

- b. Sheet reissued dated 6/7/18. Updated framing to provide cantilevered stage front per RFI #0041.

SHEET – S-506 STAGE FRAMING SECTIONS

- a. Sheet reissued dated 6/7/18. Updated framing to provide cantilevered stage front per RFI #0041.

ARCHITECTURAL:**SHEET - A-011 ARCHITECTURAL SITE PLAN**

- a. Sheet reissued dated 6/7/18. Added note for future expansion of classroom wing..

SHEET - A-101A FLOOR PLAN LEVEL 1 – AREA A

- b. Sheet reissued dated 6/7/18. Drinking fountain added to Dining.
- c. RFI # 0043, 0047, 0052, 0053, 0069.

SHEET - A-101Bn FLOOR PLAN LEVEL 1 – AREA Bn GYM

- a. Sheet reissued dated 6/7/18. Snack Bar counter revised.
- b. Revised location of electric roll down screen.
- c. RFI # 0047, 0061 0064, 0069.

SHEET - A-101Bs FLOOR PLAN LEVEL 1 – AREA Bs MEDIA

- a. Sheet reissued dated 6/7/18. RFI # 0047.

SHEET - A-101C FLOOR PLAN LEVEL 1 – AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0047, 0061.

SHEET - A-102C FLOOR PLAN LEVEL 2 – AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0047.

SHEET - A-121 OVERALL ROOF PLAN

- a. Sheet reissued dated 6/7/18. Slope noted at pitched roofs.

SHEET - A-313 WALL SECTIONS – ADMIN, DINING

- a. Sheet reissued dated 6/7/18. Air curtain noted.

SHEET - A-320 WALL CANOPY SECTIONS

- a. Sheet reissued dated 6/7/18. RFI # 0044.

SHEET - A-501 EXTERIOR SECTION DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0054.

SHEET - A-502 EXTERIOR SECTION DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0054.

SHEET - A-511 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-512 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

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SHEET - A-513 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated. RFI # 0070.

SHEET - A-514 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-521 ROOF DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-522 ROOF DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-551 CEILING DETAILS

- a. Sheet reissued dated 6/7/18. Added detail H1 Proscenium at Gym.

SHEET - A-601 DOOR SCHEDULE

- a. Sheet reissued dated 6/7/18. RFI # 0050.

SHEET - A-611 DOOR DETAILS

- b. Sheet reissued dated 6/7/18. HM door at exterior brick details revised.

SHEET - A-612 DOOR DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0050.

SHEET - A-621 GLAZING SCHEDULE

- a. Sheet reissued dated 6/7/18. RFI # 0050, 0070.

SHEET - A-622 GLAZING SCHEDULE

- b. Sheet reissued dated 6/7/18. Detail references added.

SHEET - A-632 EXTERIOR OPENING DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.
- b. SF door detail revised.

SHEET - A-804 INTERIOR ELEVATIONS

- a. Sheet reissued dated 6/7/18. Detail references added.

SHEET - A-805 INTERIOR ELEVATIONS

- a. Sheet reissued dated 6/7/18. Interior elevation added.

SHEET - A-806 INTERIOR ELEVATIONS

- a. Sheet reissued dated 6/7/18. Scoreboard, shot clock noted.
- b. Elevation A1 ceiling detail added and dimension revised

SHEET - A-831A FINISH FLOOR PLAN LEVEL 1 - AREA A

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-831Bn FINISH FLOOR PLAN LEVEL 1 - AREA B GYM

- b. Sheet reissued dated 6/7/18. RFI # 0042, 0045.

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SHEET - A-831Bs FINISH FLOOR PLAN LEVEL 1 - AREA B MEDIA

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-831C FINISH FLOOR PLAN LEVEL 1 - AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-832C FINISH FLOOR PLAN LEVEL 2 - AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-841 INTERIOR FINISH LEGEND & SCHEDULES

- a. Sheet reissued dated 6/7/18. RFI # 0042.

SHEET - A-861 SIGNAGE SCHEDULE & DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0045. New sheet.

ELECTRICAL:**SHEET - E- 001 GENERAL PROJECT INFORMATION**

- a. Sheet reissued dated 6/7/18. Symbol Legend changes for sound system
- b. Canopy Lighting specification change

SHEET - E- 011 ELECTRICAL SITE PLAN

- a. Sheet reissued dated 6/7/18. Canopy Lighting symbol change to match type change

SHEET - E- 111A POWER FLOOR PLAN-LEVEL 1-AREA B GYM (Narrative only)

- a. Room #1311, GWH-1 connection extension (Circuit L1A-45)

SHEET - E- 111Bn POWER FLOOR PLAN-LEVEL 1-AREA B GYM

- a. Door Opener connection addition (Circuit L1B-50)
(Narrative only):
- b. Sheet reissued dated 6/7/18. Room #1209, GWH-2 connection extension (Circuit L1C-18)
- c. Room #1413, EWH-2 connection addition (Circuit H1A-25)
- d. Room #1206B, EWH-1 connection addition (Circuit H1A-19)
- e. Room #1208B, EWH-1 connection addition (Circuit H1A-21)
- f. Room #1210, CL connection change (Circuit L1B-67)
- g. Room #1210, Divider Curtain (DC) connection addition (Circuit L1B-52)

SHEET - E- 111Bs POWER FLOOR PLAN-LEVEL 1-AREA B MEDIA

- a. Sheet reissued dated 6/7/18. Door Opener connection addition (Circuit L1C-50)

SHEET - E- 111C POWER FLOOR PLAN-LEVEL 1-AREA C

- b. Sheet reissued dated 6/7/18. Door Opener connection addition (Circuit L1D-42)
- c. Maker Space Ceiling Receptacles (Circuit L1D-29,31)
- d. Projection screen connection moved to stage opening
(Narrative only):
- e. Room #1826, GWH-3 connection extension (Circuit L1D-30)
- f. Room #1707, GWH-4 connection extension (Circuit L1E-37)

SHEET - E- 121Bn COMMUNICATION FLOOR PLAN-LEVEL 1-AREA B GYM

- a. Gym Sound System additions
- b. Sound System Details

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(Narrative only):

- c. Room #2814, GWH-5 connection extension (Circuit L2F-37)

SHEET - E- 121Bs COMMUNICATION FLOOR PLAN-LEVEL 1-AREA B MEDIA

- a. Sheet reissued dated 6/7/18. Sound System Details

SHEET - E- 401 PANELBOARD SCHEDULES (Narrative only)

- a. Sheet reissued dated 6/7/18. Panel schedule H1A - Change circuits 19, 21 from spares to EWH-1
- b. Panel schedule H1A - Change circuit 25 from space to 50A/1P for EWH-2

SHEET - E- 402 PANELBOARD SCHEDULES

- c. Sheet reissued dated 6/7/18. Panel schedule changes
(Narrative only):
- d. Panel schedule L1B - Change circuit 29/31 from 25A to 15A
- e. Panel schedule L1B - Change circuit 49/51 to spare
- f. Panel schedule L1B - Change circuit 67 from 20A/1P to 15A/1P
- g. Panel schedule L1B - Change circuit 52 from 20A/1P to 25A/1P
- h. Panel schedule L1C - Change circuit 42/44 from 25A to 15A

SHEET - E- 403 PANELBOARD SCHEDULES

- a. Sheet reissued dated 6/7/18. Panel schedule changes

SHEET - E- 406 SCHEDULES

- a. Sheet reissued dated 6/7/18. Schedule changes for Door Opener connections
(Narrative only):
- b. Misc. Connection Schedule note #1, special receptacle and cord to be provided by manufacturer, provide 10A/2P/240V,NEMA fused disconnect

PLUMBING:**SHEET - P- 001 GENERAL PROJECT INFORMATION**

- a. Sheet reissued dated 6/7/18. Added missing kitchen equipment number.

SHEET - P- 101Bn WASTE AND VENT FLOOR PLAN – LEVEL 1 – AREA B GYM

- a. Sheet reissued dated 6/7/18. Relocate VTR and added ice maker floor drain.

SHEET - P- 101C WASTE AND VENT FLOOR PLAN – LEVEL 1 – AREA C

- a. Sheet reissued dated 6/7/18. Added drain boxes for mechanical equipment.
- b. Added wall cleanout.

SHEET - P- 102C WASTE AND VENT FLOOR PLAN – LEVEL 2 – AREA C

- a. Sheet reissued dated 6/7/18. Added 2nd floor vent piping at science labs.
- b. Added drain boxes, adjusted venting.

SHEET - P- 111A DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA A

- a. Sheet reissued dated 6/7/18. RFI 0039.

SHEET - P- 111Bn DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA B GYM

- a. Sheet reissued dated 6/7/18. Modified plan to show high piping at gym.
- b. Added ice maker.

SHEET - P- 111Bs DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA B MEDIA

June 7, 2018

Page 8

- a. Sheet reissued dated 6/7/18. Modified plan to show high piping.

SHEET - P- 111C DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA C

- a. Sheet reissued dated 6/7/18. Added sink at makers space.
- b. Deleted master mixing valve.
- c. Indicated balancing valve flow rates.

SHEET - P- 112C DOMESTIC WATER FLOOR PLAN – LEVEL 2 – AREA C

- a. Sheet reissued dated 6/7/18. Adjusted piping to avoid gypboard ceilings.
- b. Deleted master mixing valve.

SHEET - P- 121A PLUMBING ROOF PLAN – AREA A

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 121Bn PLUMBING ROOF PLAN – AREA B GYM

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 121Bs PLUMBING ROOF PLAN – AREA B MEDIA

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 121C PLUMBING ROOF PLAN – AREA C

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 302 ENLARGED PLANS – WATER PIPING

- a. Sheet reissued dated 6/7/18. Adjusted piping to avoid gypboard ceilings.

SHEET - P- 402 PLUMBING DETAILS

- a. Sheet reissued dated 6/7/18. Added ice maker detail.

SHEET - P- 501 PLUMBING SCHEDULES

- a. Sheet reissued dated 6/7/18. modified schedules.

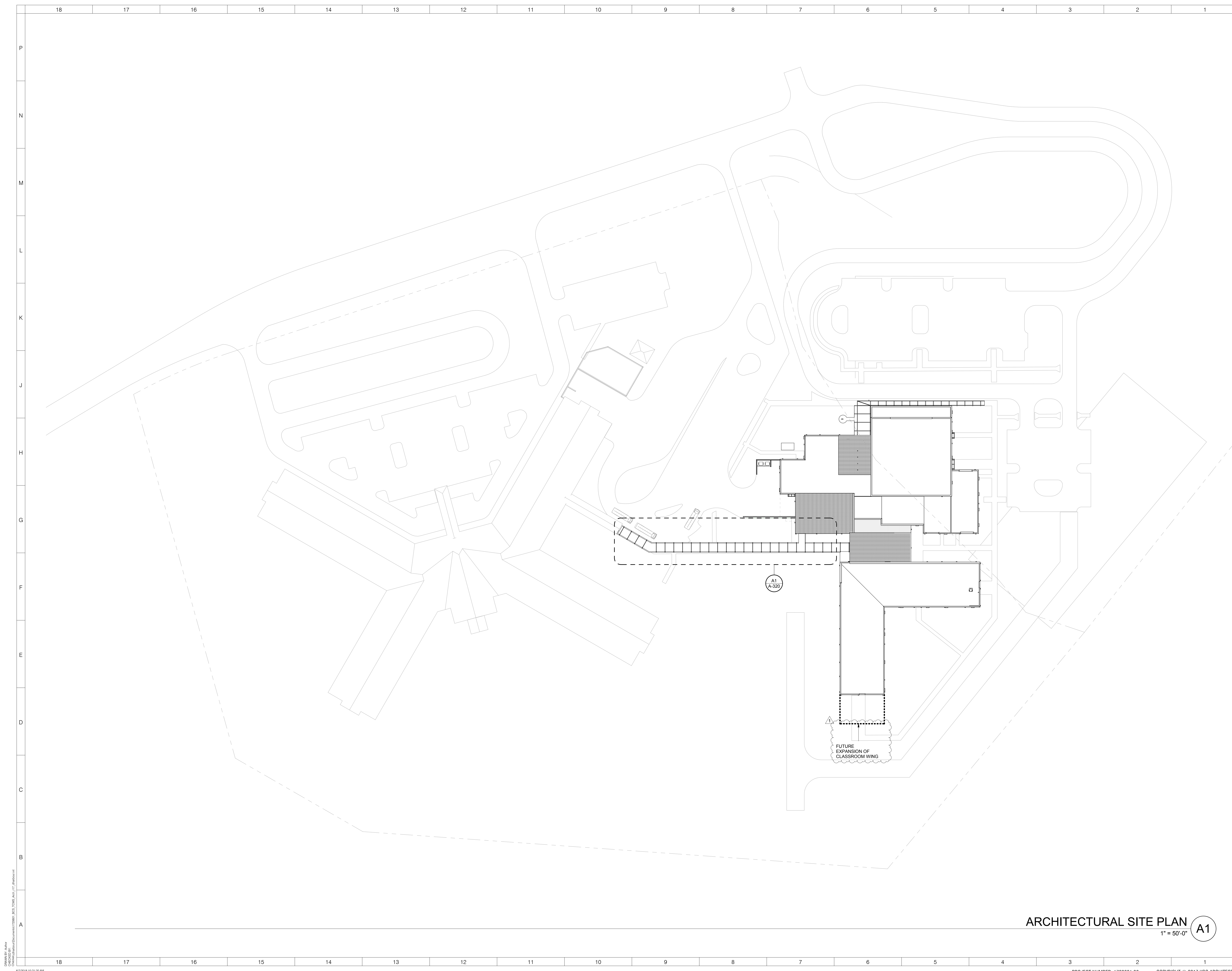
ENCLOSURES:**SPEC SECTIONS**

- 00 01 10 – TABLE OF CONTENTS
- 06 20 23– INTERIOR FINISH CARPENTRY
- 07 54 19 – POLYVINYL-CHLORIDE (PVC) ROOFING
- 10 14 00 – SIGNAGE
- 10 73 01 – ALUMINUM WALL HUNG CANOPY
- 11 31 00 – RESIDENTIAL APPLIANCES
- 11 60 30– PERFORMANCE SPACE CURTAINS
- 11 66 23– GYMNASIUM EQUIPMENT
- 09 64 66 – WOOD ATHLETIC FLOORING

June 7, 2018

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SHEETS**GENERAL**G-001a
G-001b
G-021
G-031
G-041**ARCHITECTURAL**A-011
A-101A
A-101Bn
A-101Bs
A-101C
A-102C
A-121
A-313
A-320
A-501
A-502
A-511
A-512
A-513
A-514
A-521
A-522**ELECTRICAL**E- 001
E- 011
E- 111Bn
E- 111Bs
E- 111C
E- 121Bn
E- 121Bs
E- 402
E- 403
E- 406**PLUMBING**P- 001
P- 101Bn**STRUCT**S-001
S-101Bn
S-102Bn
S-506A-551
A-601
A-611
A-612
A-621
A-622
A-632
A-804
A-805
A-806
A-831A
A-831Bn
A-831Bs
A-831C
A-832C
A-841
A-861P- 101C
P- 102C
P- 111A
P- 111Bn
P- 111Bs
P- 111C
P- 112C
P- 121A
P- 121Bn
P- 121Bs
P- 121C
P- 302
P- 402
P- 501**END OF ADDENDA**



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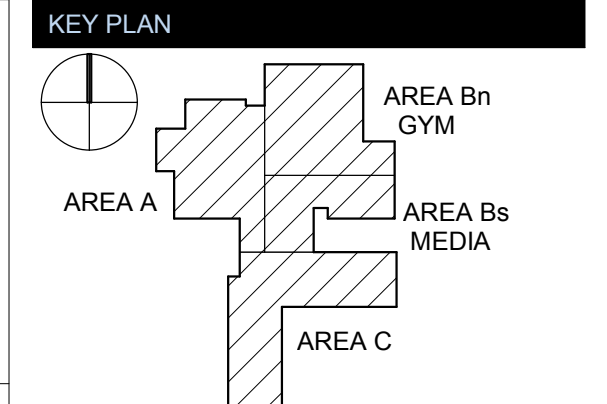
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REVISIONS

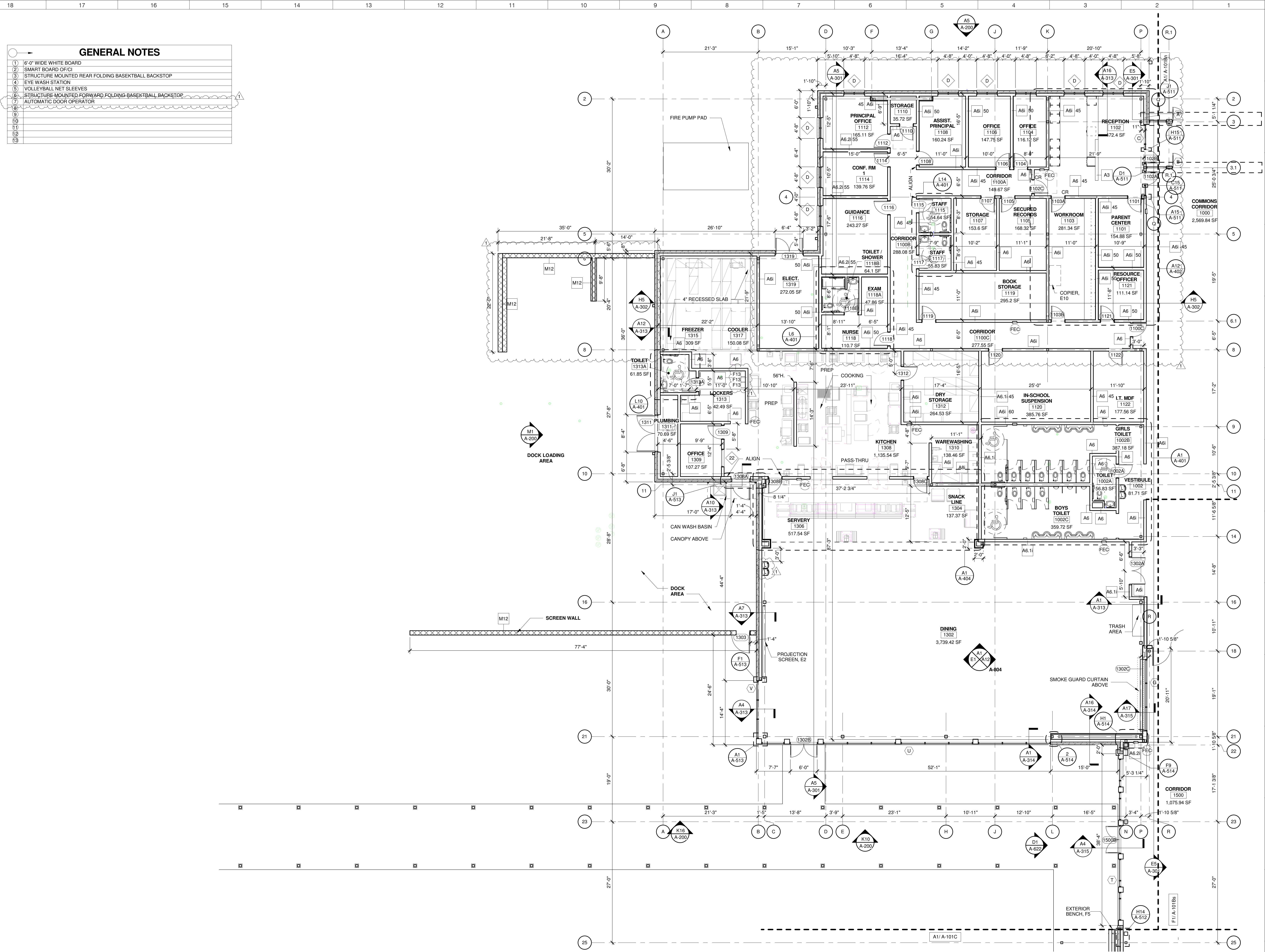
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ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
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SHEET NAME: ARCHITECTURAL SITE PLAN
SHEET NUMBER:

ARCHITECTURAL SITE PLAN A1
 1" = 50'-0"

A-011



- GENERAL NOTES**
- 6" WIDE WHITE BOARD
 - SMART BOARD OFCI
 - STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
 - EYE WASH STATION
 - VOLLEYBALL NET SLEEVES
 - STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
 - AUTOMATIC DOOR OPERATOR
 -
 -
 -
 -
 -
 -
 -

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KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

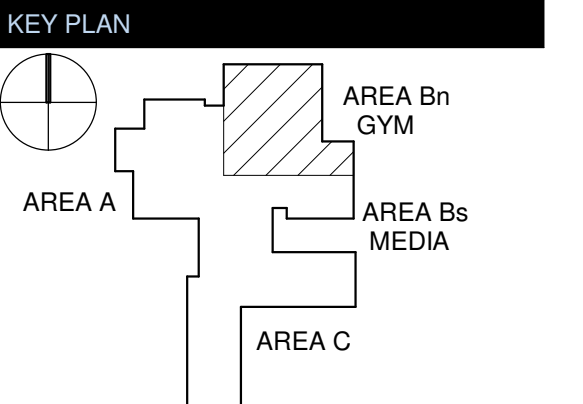
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SHEET NAME: FLOOR PLAN LEVEL 1 - AREA A
SHEET NUMBER: A-101A

FLOOR PLAN LEVEL 1 - AREA A
 1/8" = 1'-0" A1



TOWN CREEK MIDDLE SCHOOL

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SE
WINNABOW, NC 28479



No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

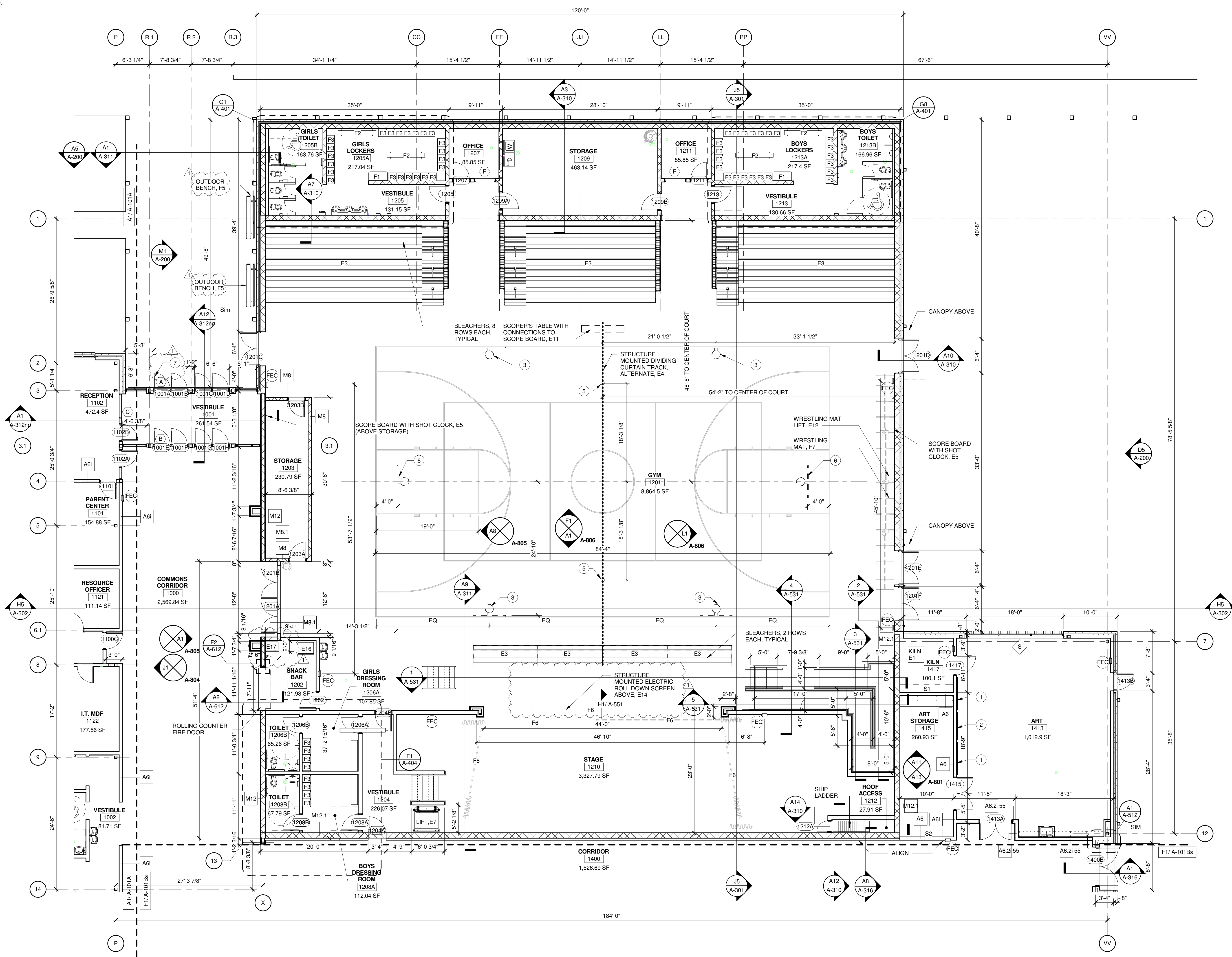
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FLOOR PLAN LEVEL 1 - AREA Bn GYM

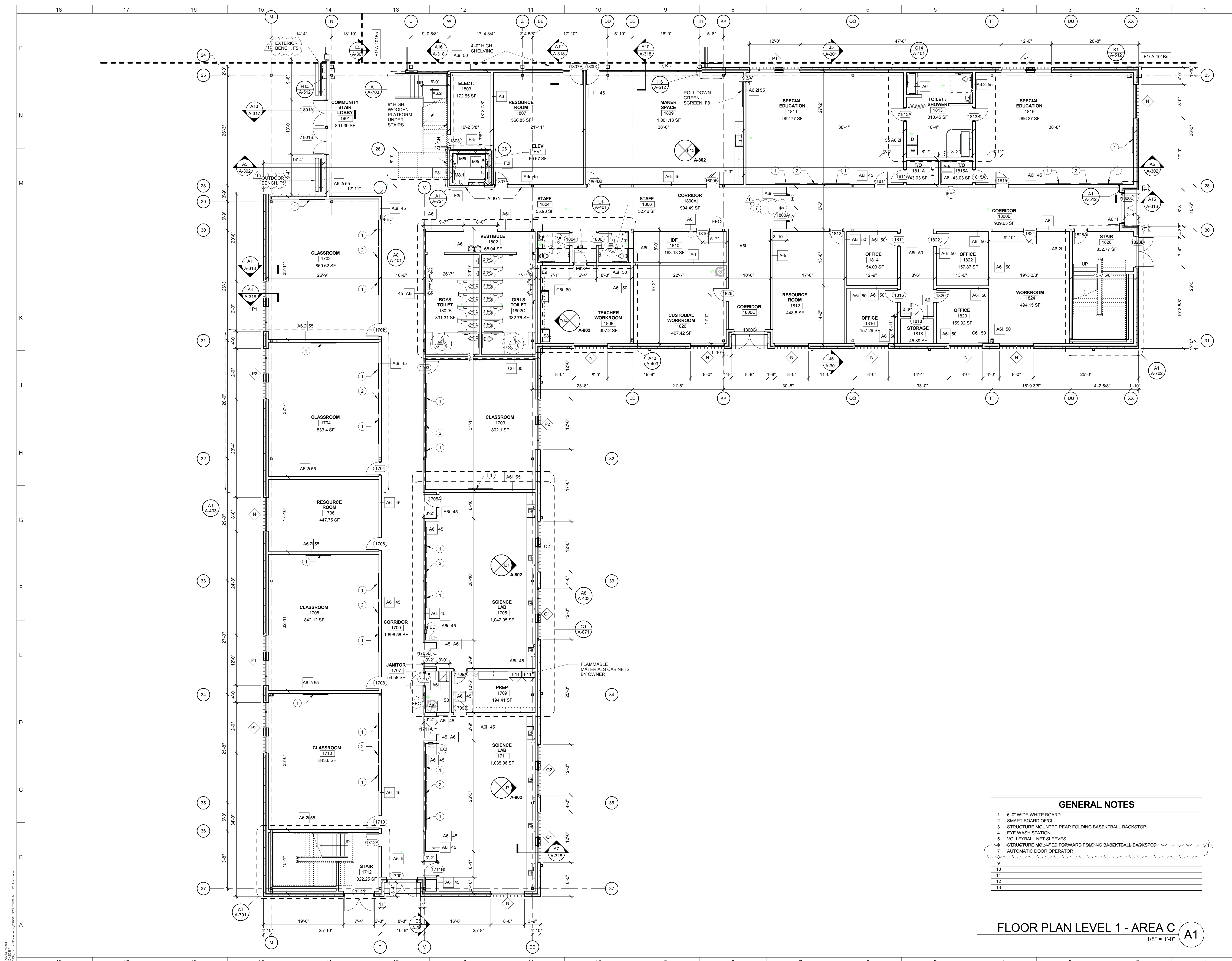
SHEET NUMBER:

A-101Bn

- GENERAL NOTES**
- 6'-0" WIDE WHITE BOARD
 - SMART BOARD O.F.C.I
 - STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
 - EYE WASH STATION
 - VOLLEYBALL NET SLEEVES
 - STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
 - AUTOMATIC DOOR OPERATOR
 -
 -
 -
 -
 -
 -
 -
 -



FLOOR PLAN LEVEL 1 - AREA Bn
1/8" = 1'-0" A1



- GENERAL NOTES**
- 6'-0" WIDE WHITE BOARD
 - SMART BOARD (O/C)
 - STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
 - EYE WASH STATION
 - VOLLEYBALL NET SLEEVES
 - STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
 - AUTOMATIC DOOR OPERATOR
 -
 -
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FLOOR PLAN LEVEL 1 - AREA C
1/8" = 1'-0" A1

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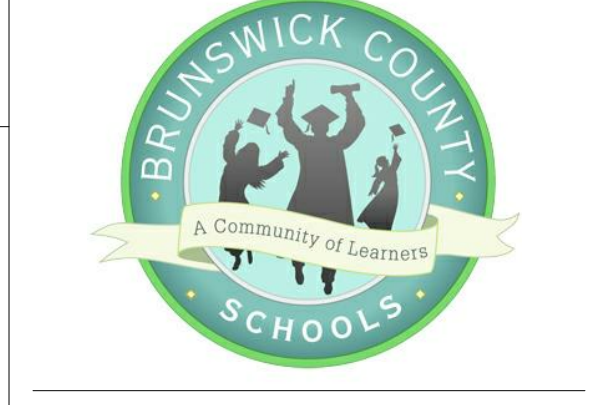
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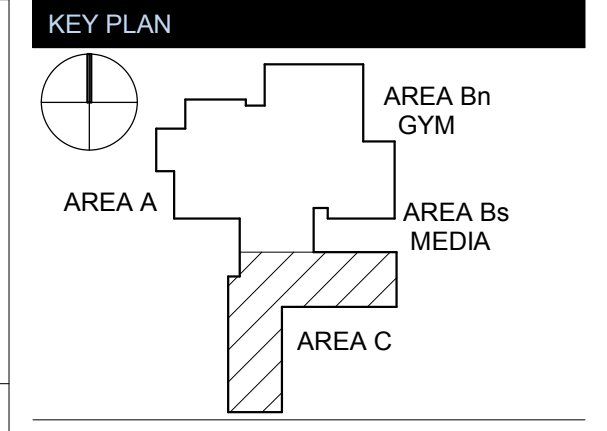
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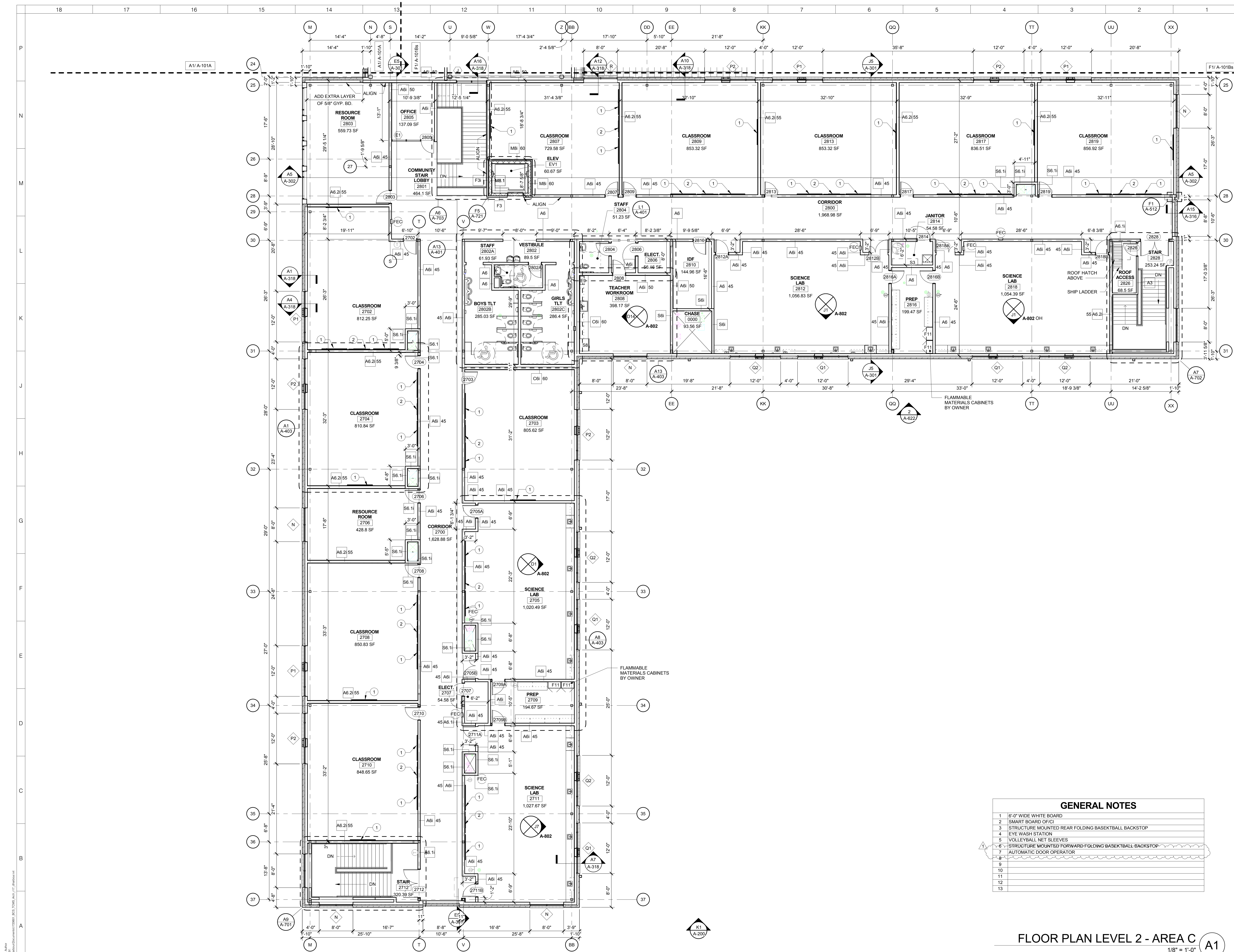
REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
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SHEET NAME:
FLOOR PLAN LEVEL 1 - AREA C
SHEET NUMBER:

A-101C



GENERAL NOTES

- 6'-0" WIDE WHITE BOARD
- SMART BOARD OF CI
- STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
- EYE WASH STATION
- VOLLEYBALL NET SLEEVES
- STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
- AUTOMATIC DOOR OPERATOR

FLOOR PLAN LEVEL 2 - AREA C
1/8" = 1'-0" A1

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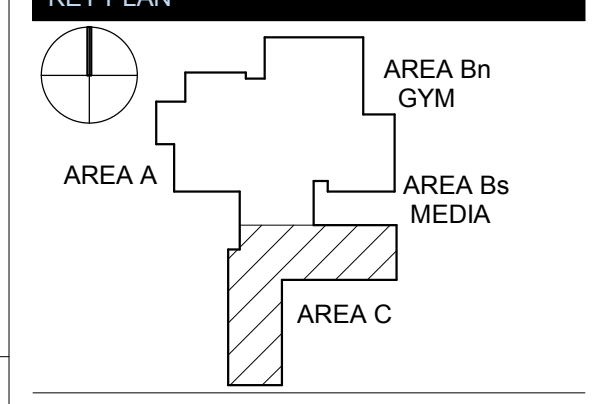
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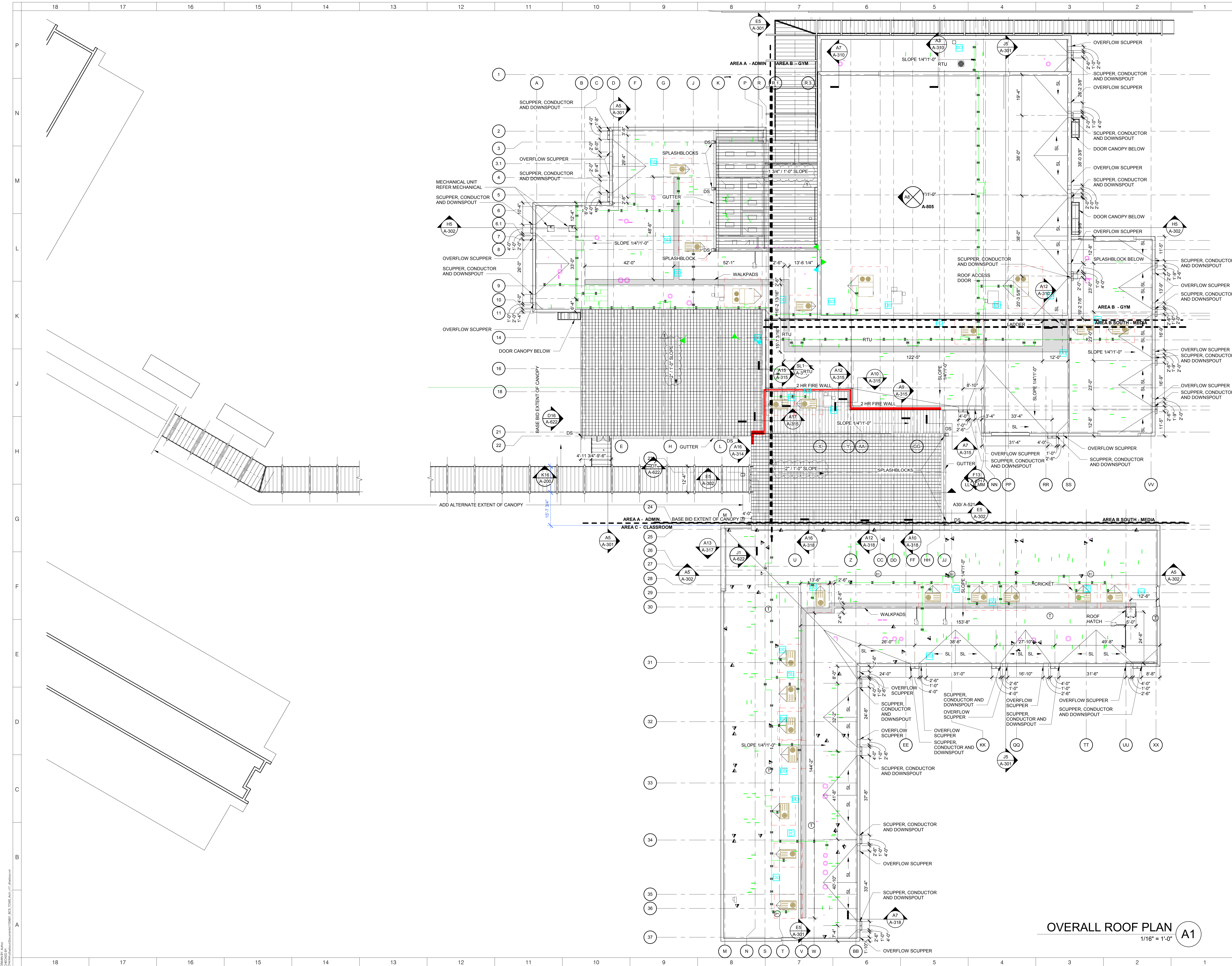


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No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
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SHEET NUMBER:



OVERALL ROOF PLAN
1/16" = 1'-0" **A1**

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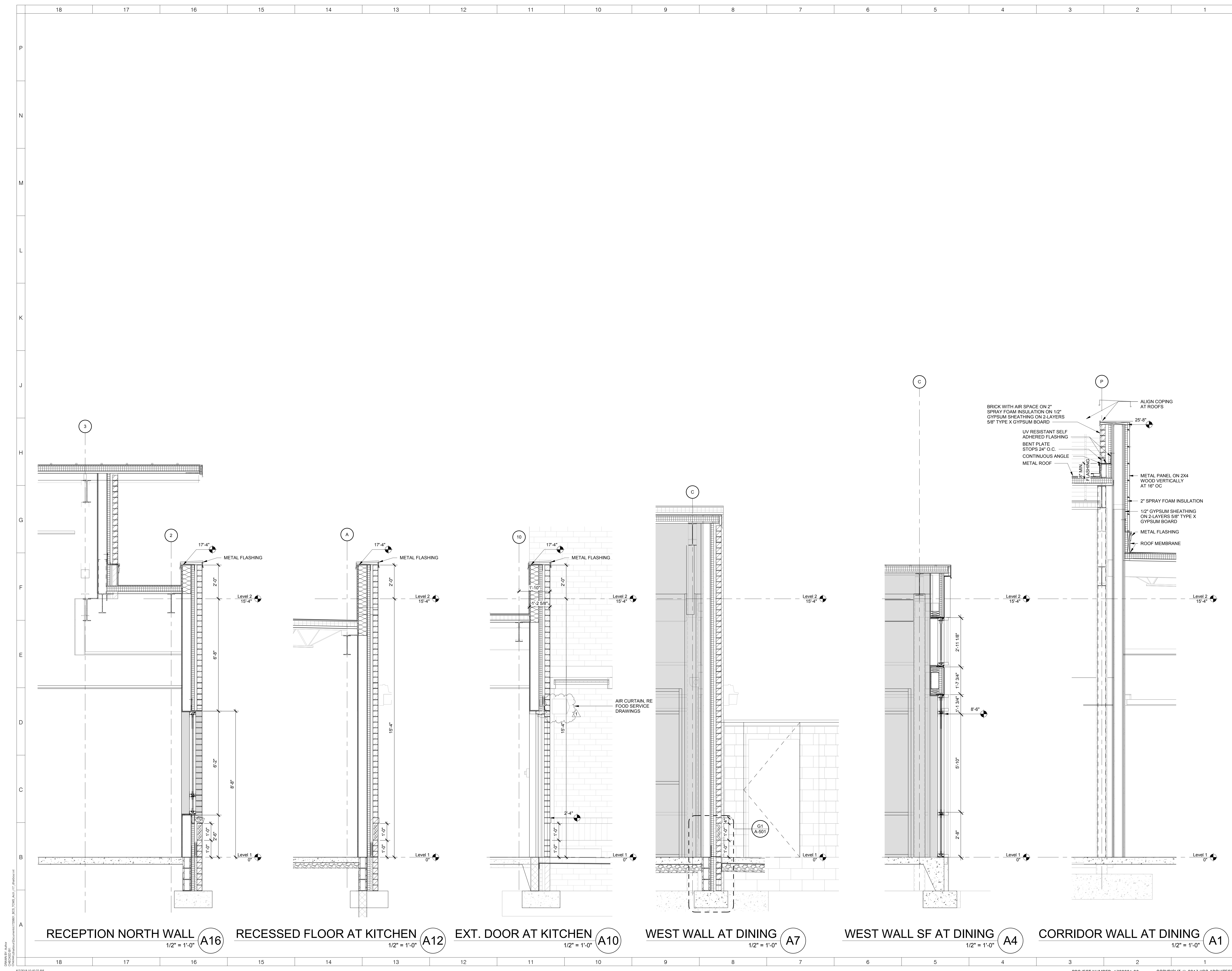
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KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

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SCALE: 1/16" = 1'-0"
SHEET NAME: OVERALL ROOF PLAN
SHEET NUMBER: A-121

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RECEPTION NORTH WALL
1/2" = 1'-0" A16

RECESSED FLOOR AT KITCHEN
1/2" = 1'-0" A12

EXT. DOOR AT KITCHEN
1/2" = 1'-0" A10

WEST WALL AT DINING
1/2" = 1'-0" A7

WEST WALL SF AT DINING
1/2" = 1'-0" A4

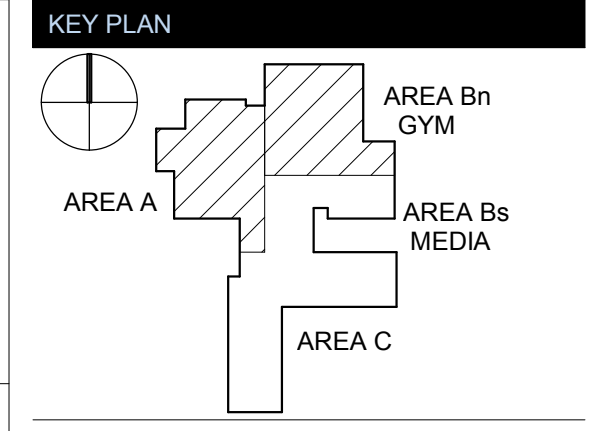
CORRIDOR WALL AT DINING
1/2" = 1'-0" A1

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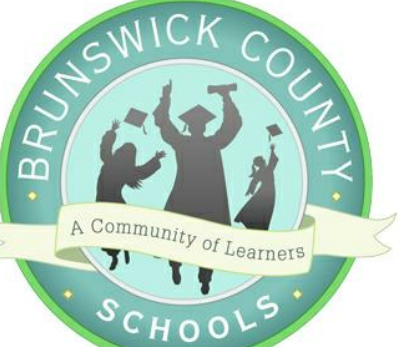


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No.	Description	Date
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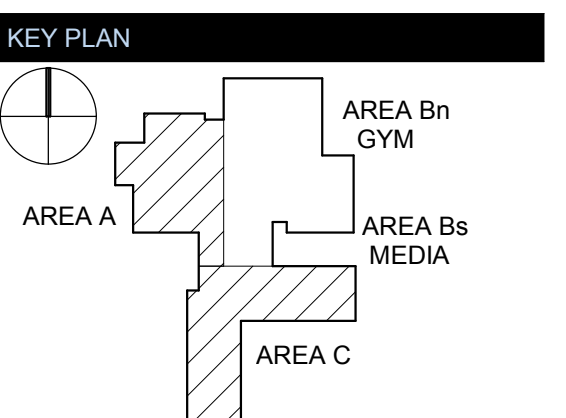
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SHEET NAME: WALL SECTIONS - ADMIN, DINING

SHEET NUMBER:
A-313



TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
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No.	Description	Date
1	Addendum #1	6-7-2018

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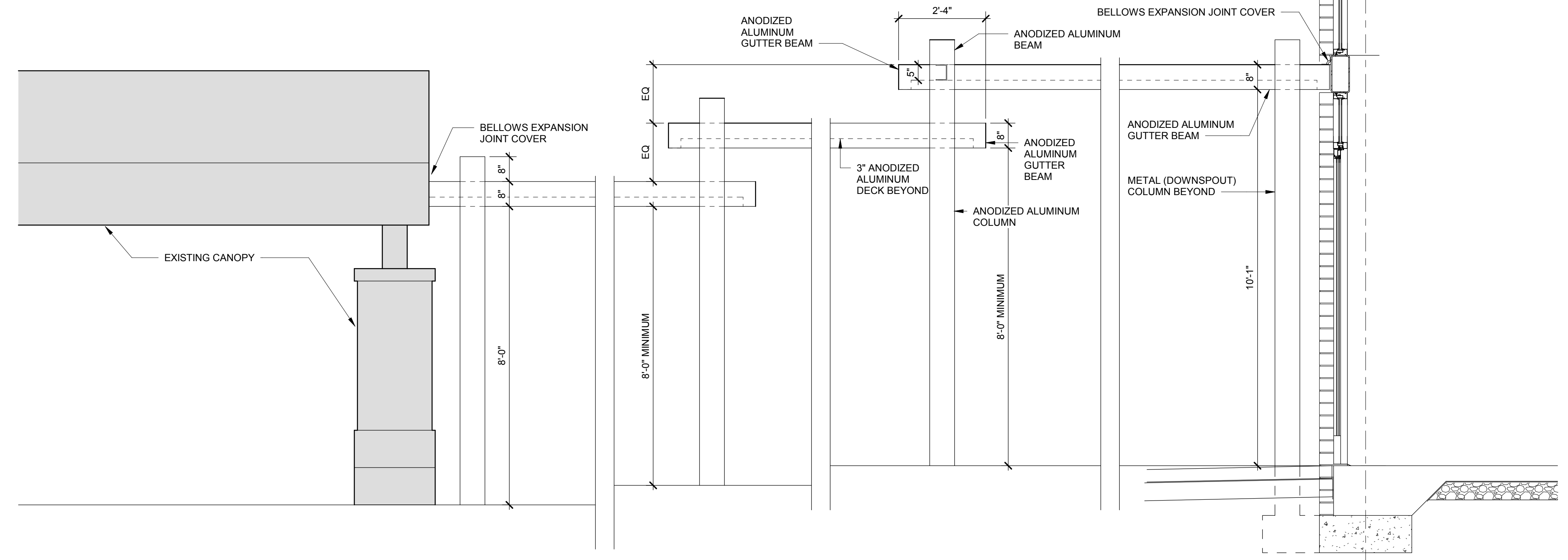
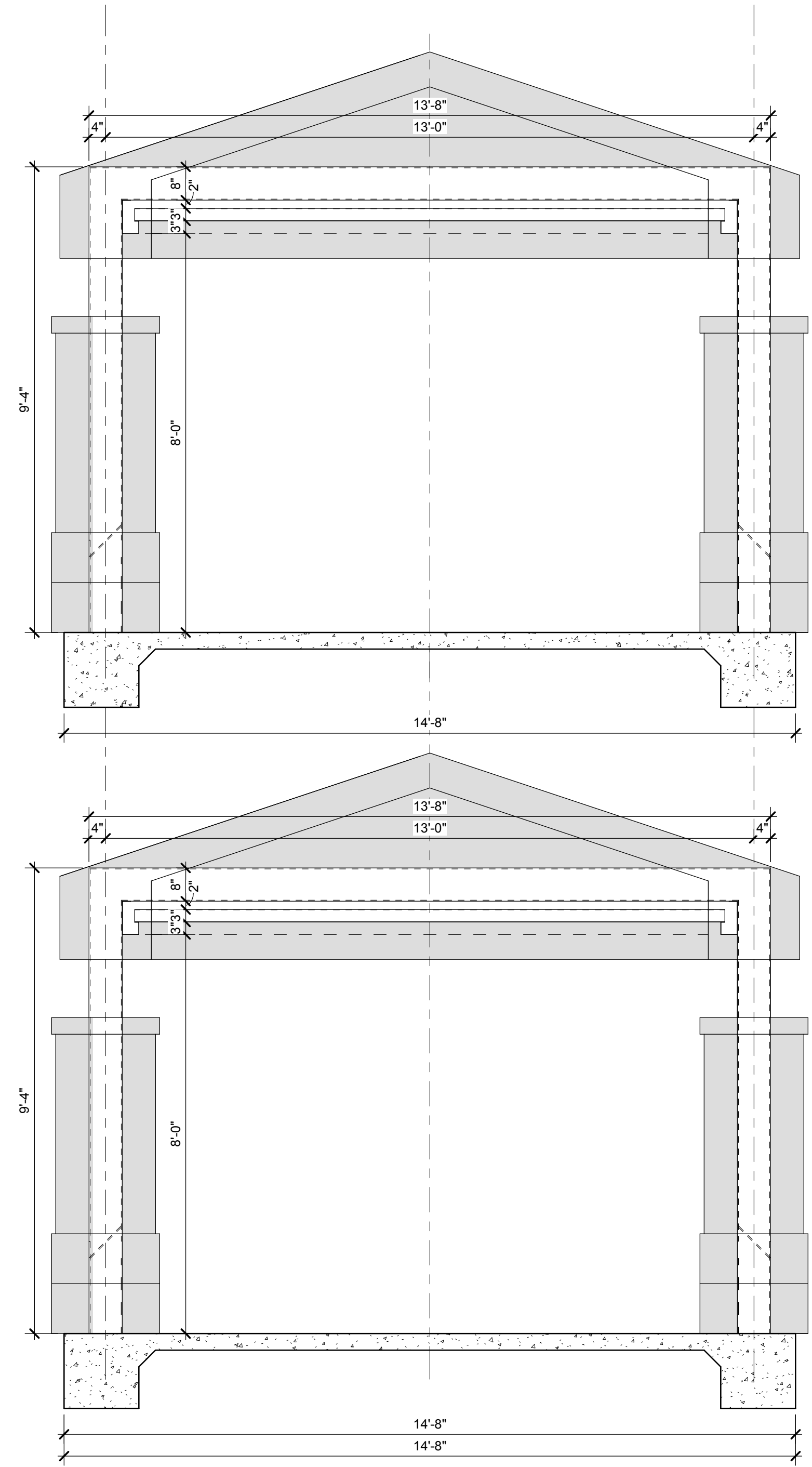
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SCALE: As indicated

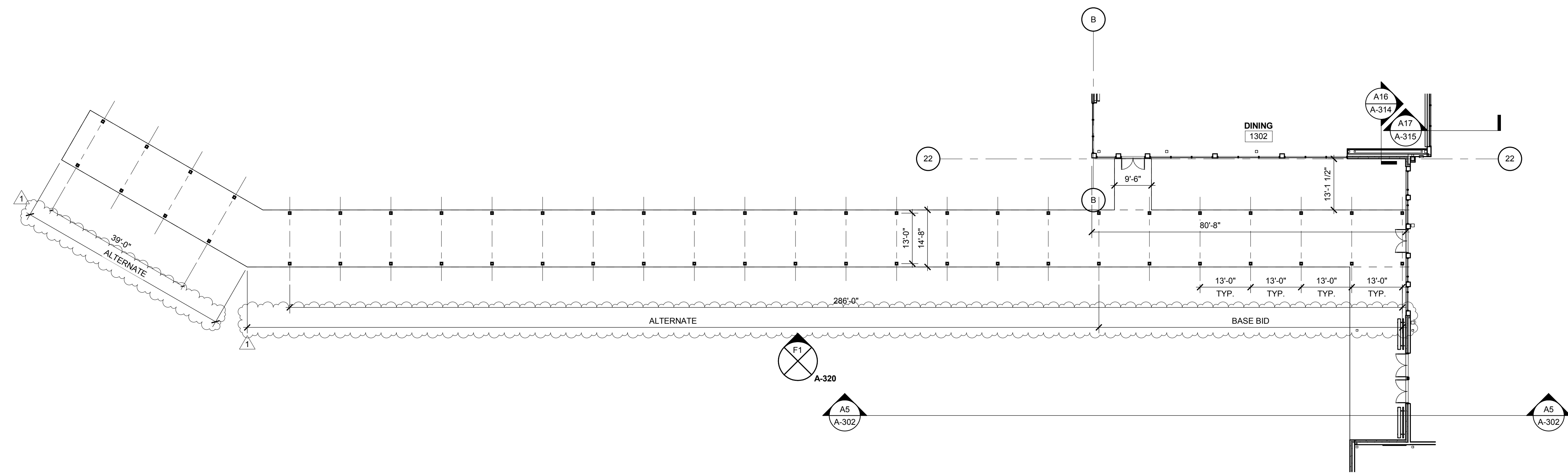
SHEET NAME: CANOPY SECTIONS

SHEET NUMBER:

A-320



CANOPY ELEVATION F1
1/2" = 1'-0"

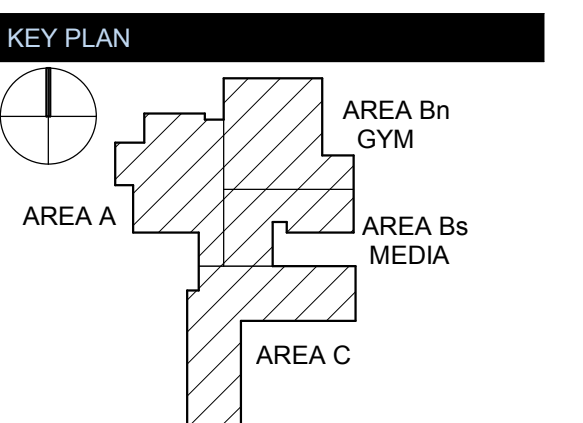


CANOPY AT BUS DROP-OFF A1
1/16" = 1'-0"



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No.	Description	Date
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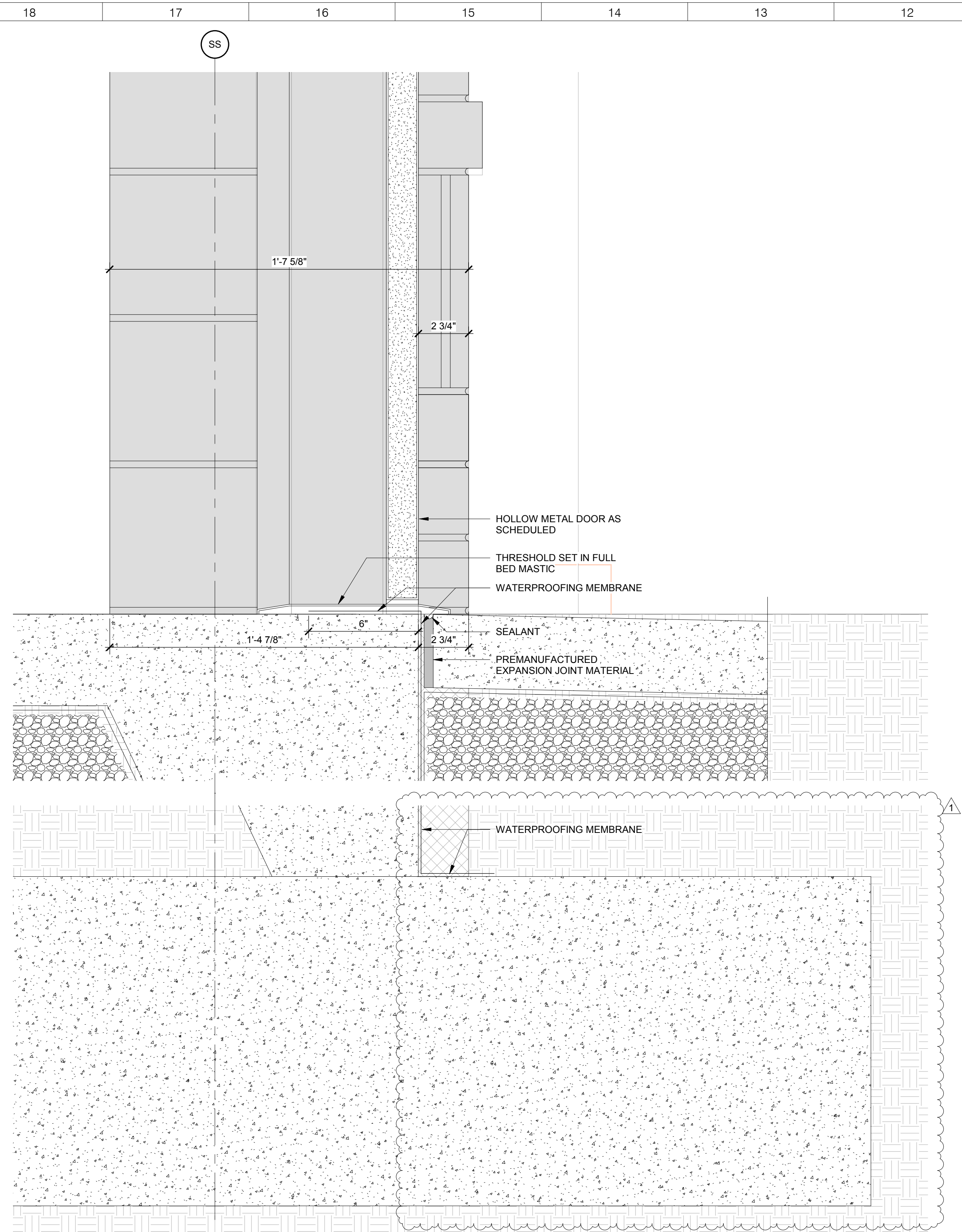
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SCALE: 3" = 1'-0"

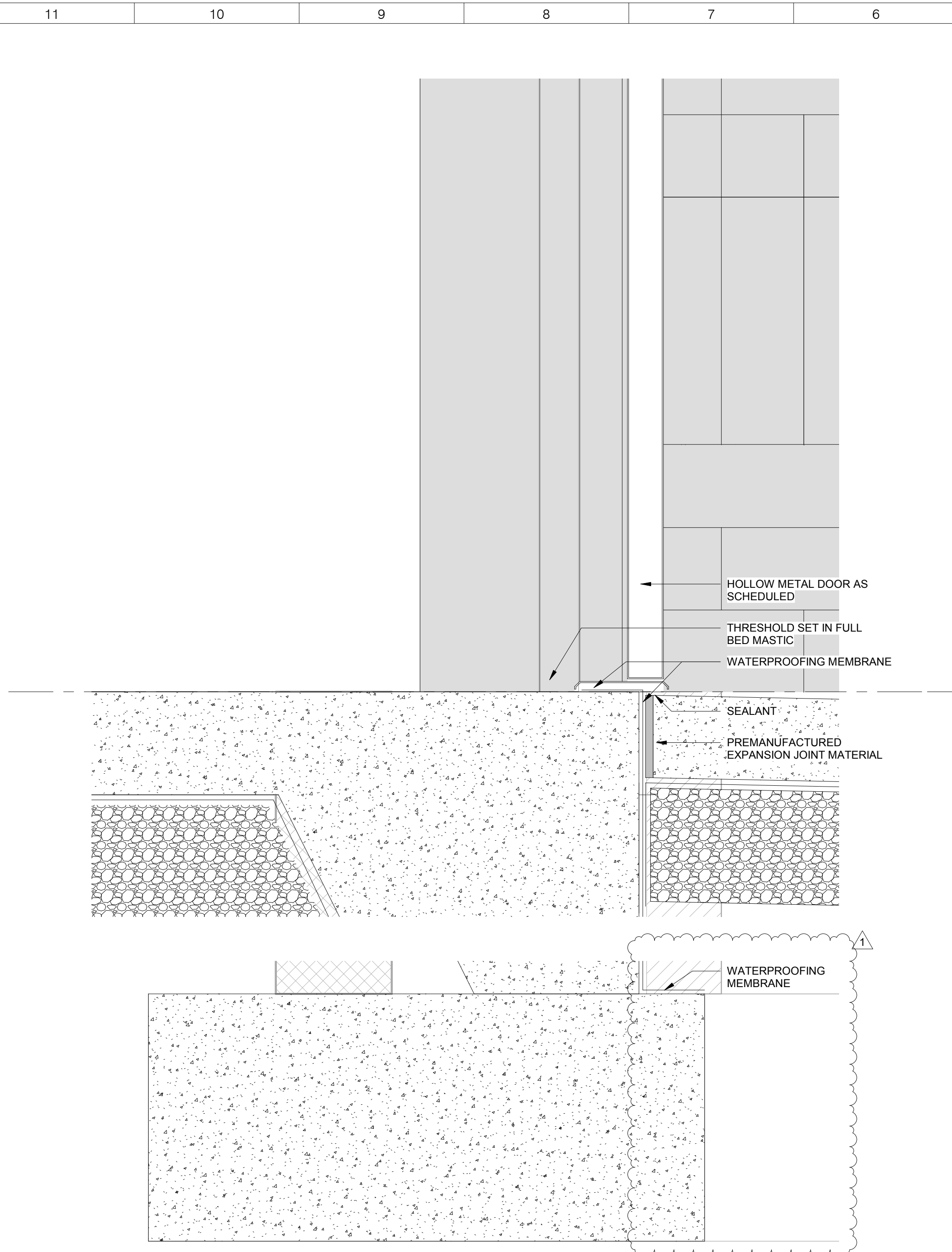
SHEET NAME:
EXTERIOR SECTION DETAILS

SHEET NUMBER:

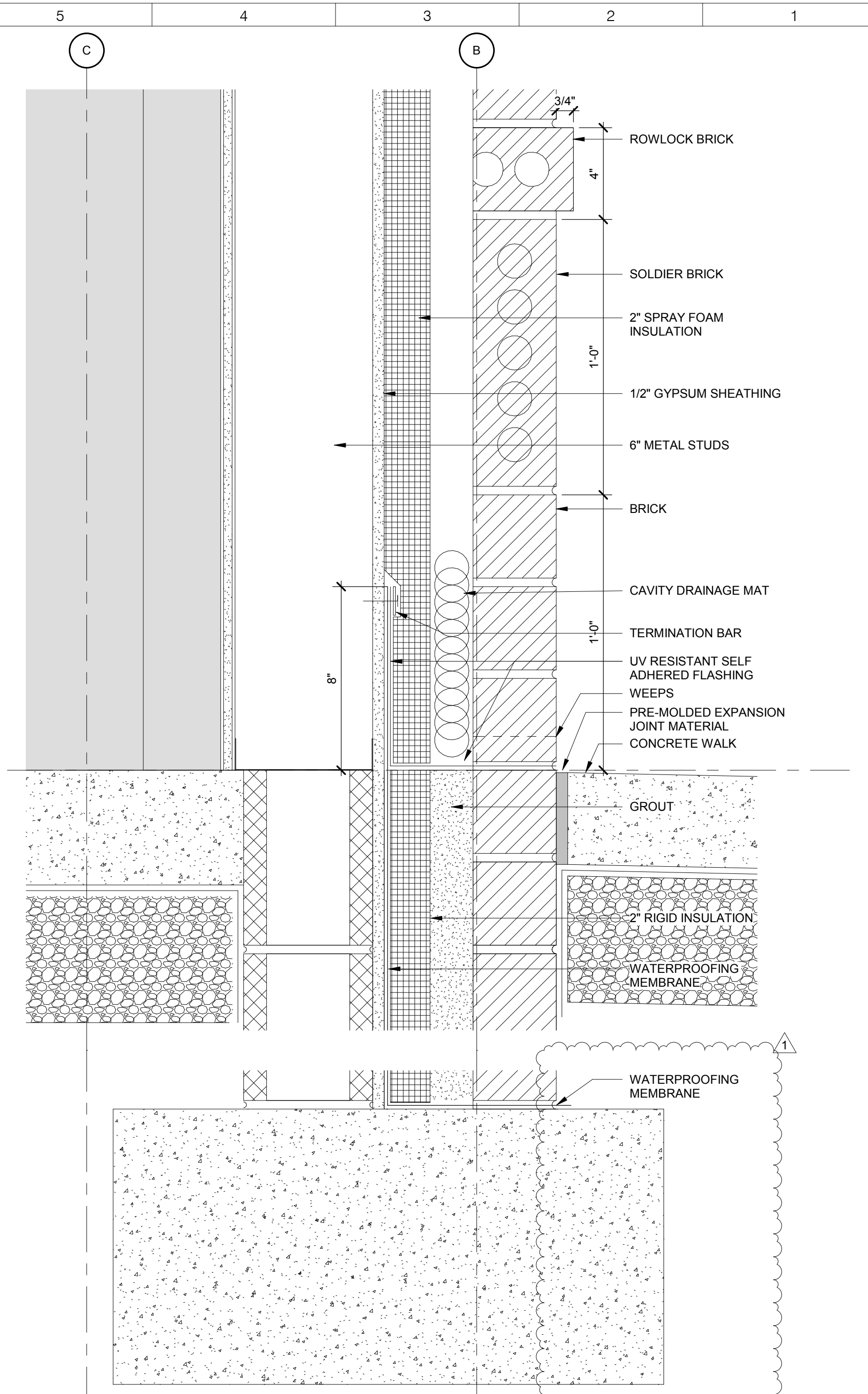
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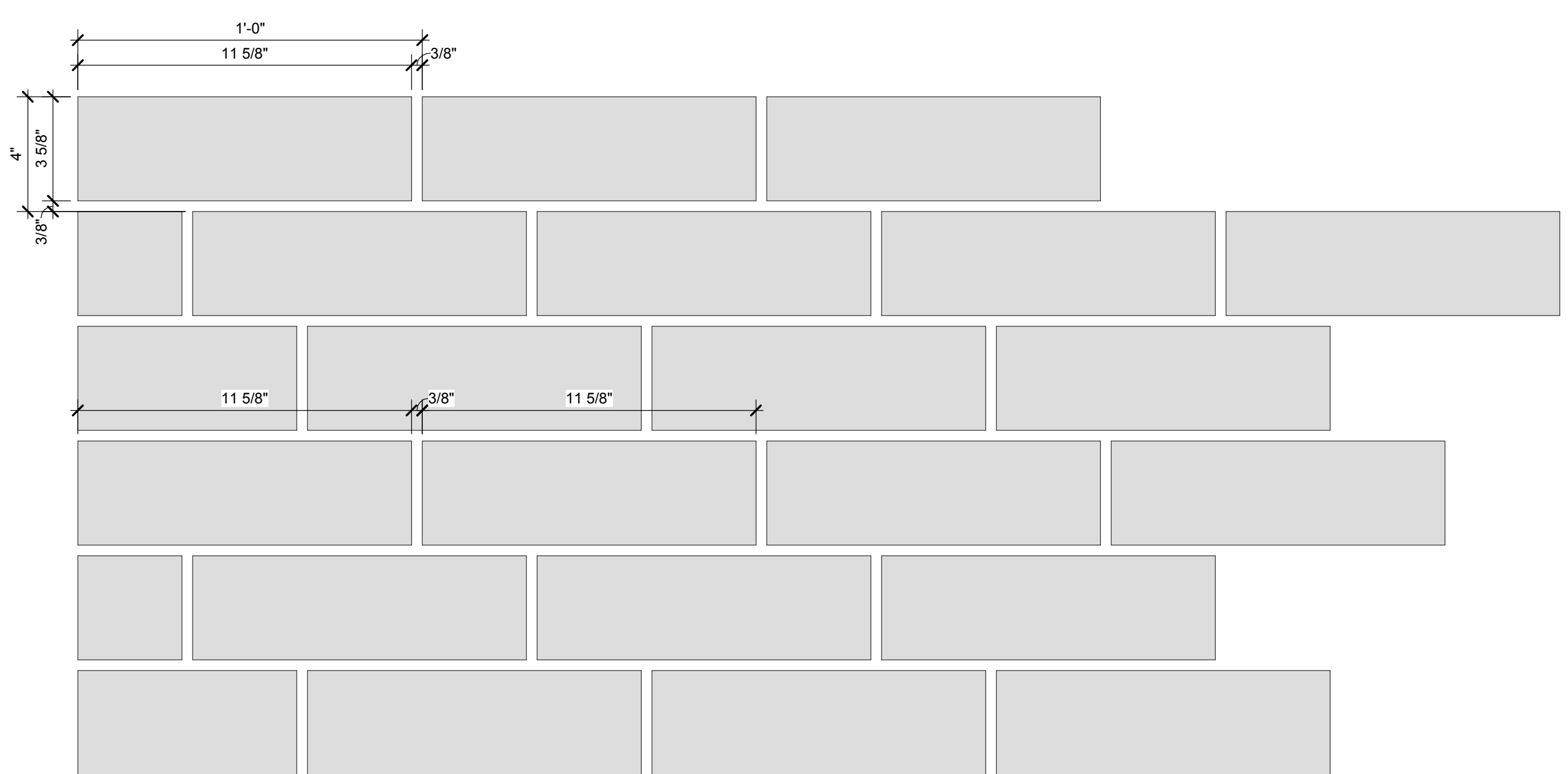
SECTION DETAIL AT CMU EXTERIOR DOOR THRESHOLD 3" = 1'-0" (F12)



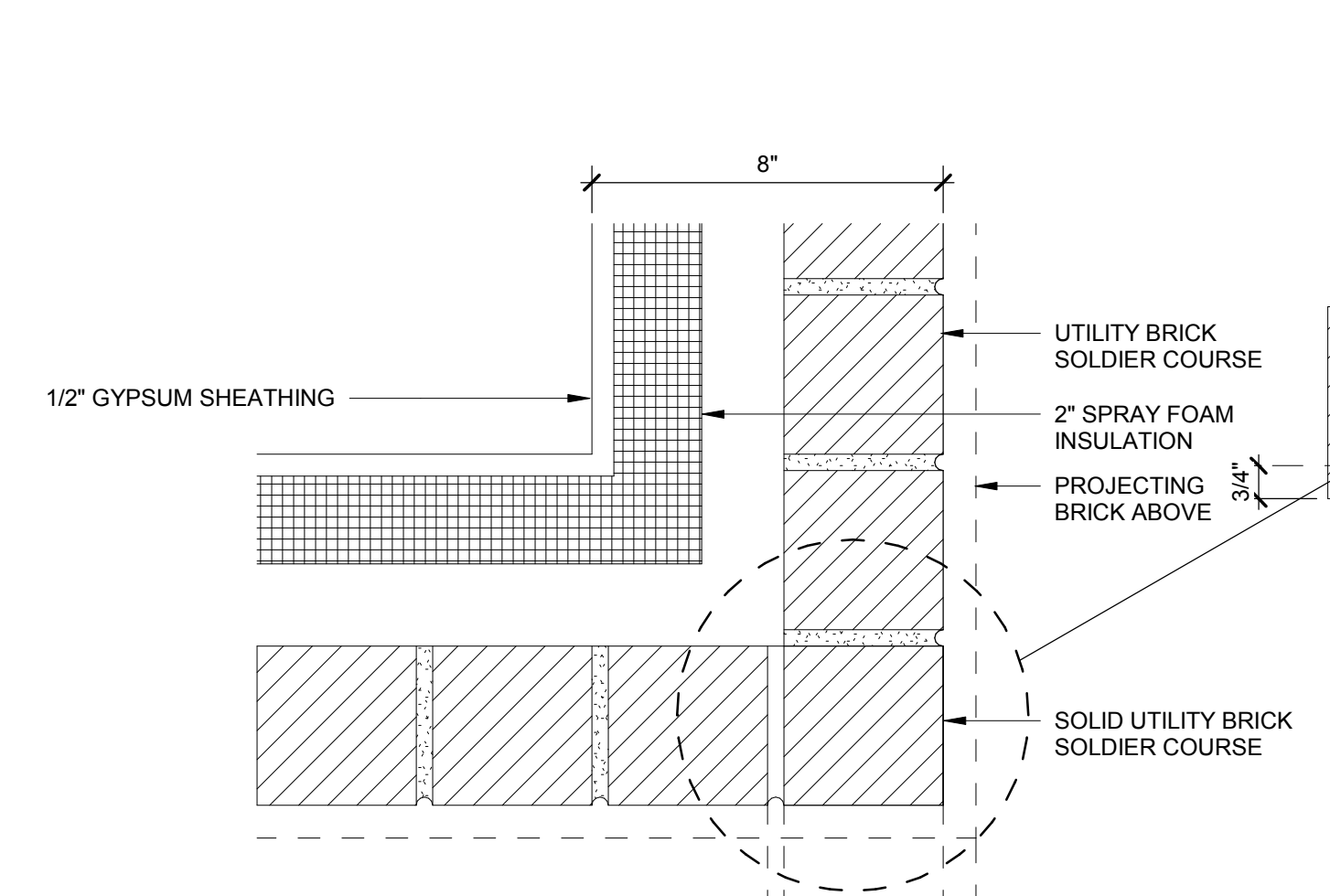
SECTION DETAIL AT FRAMED EXTERIOR DOOR THRESHOLD 3" = 1'-0" (G6)



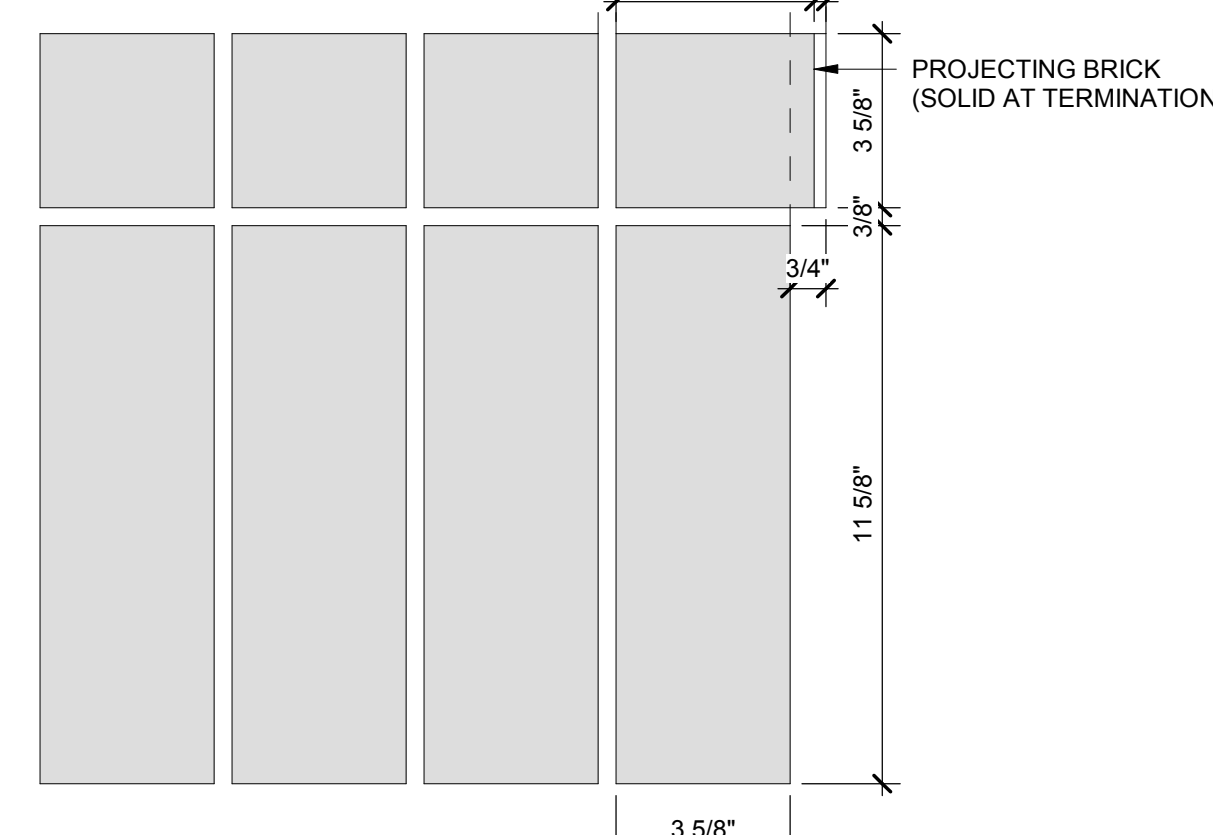
SECTION DETAIL AT EXTERIOR FRAMED WALL 3" = 1'-0" (G1)



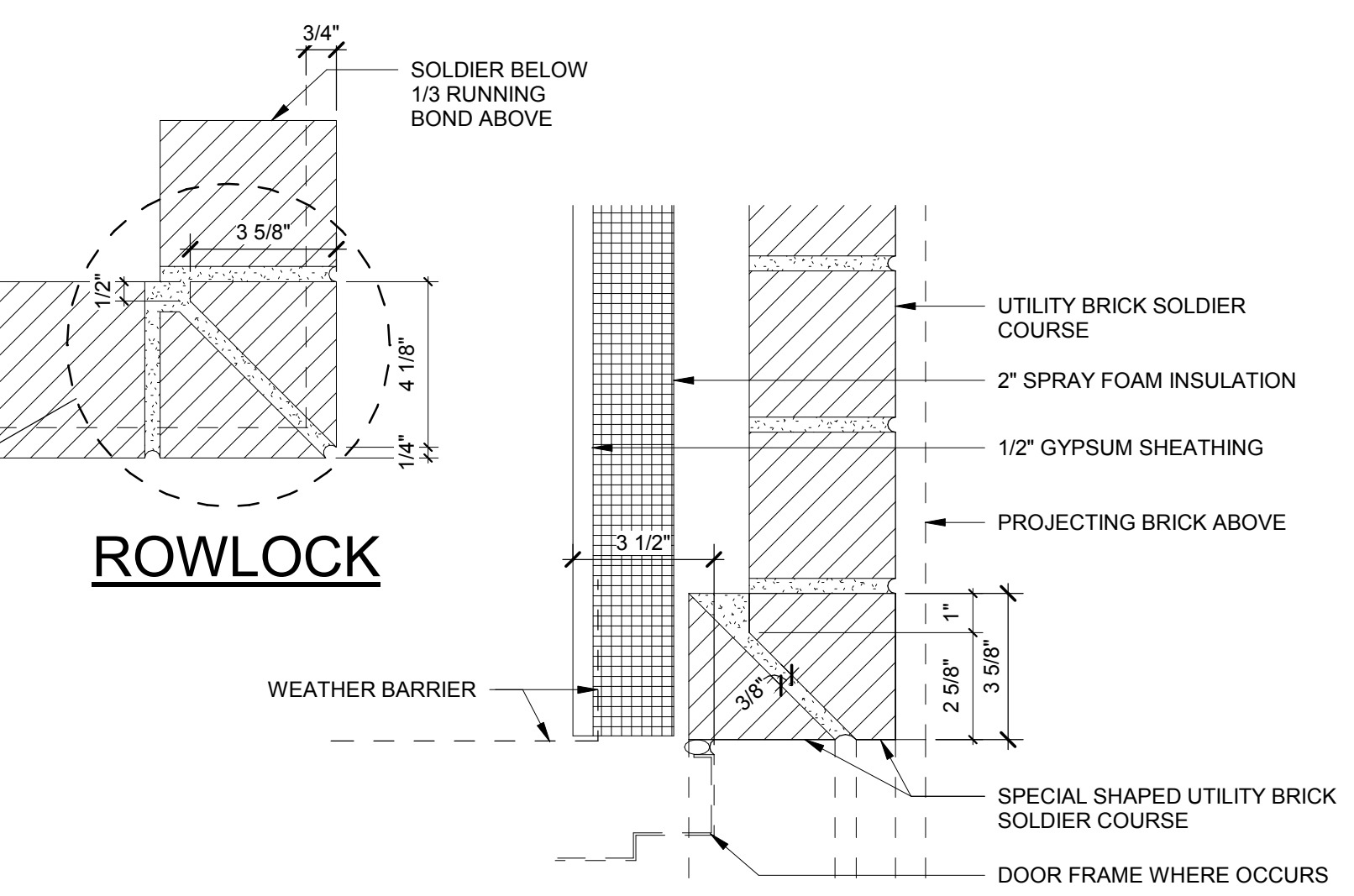
1/3 BRICK RUNNING BOND 3" = 1'-0" (A10)



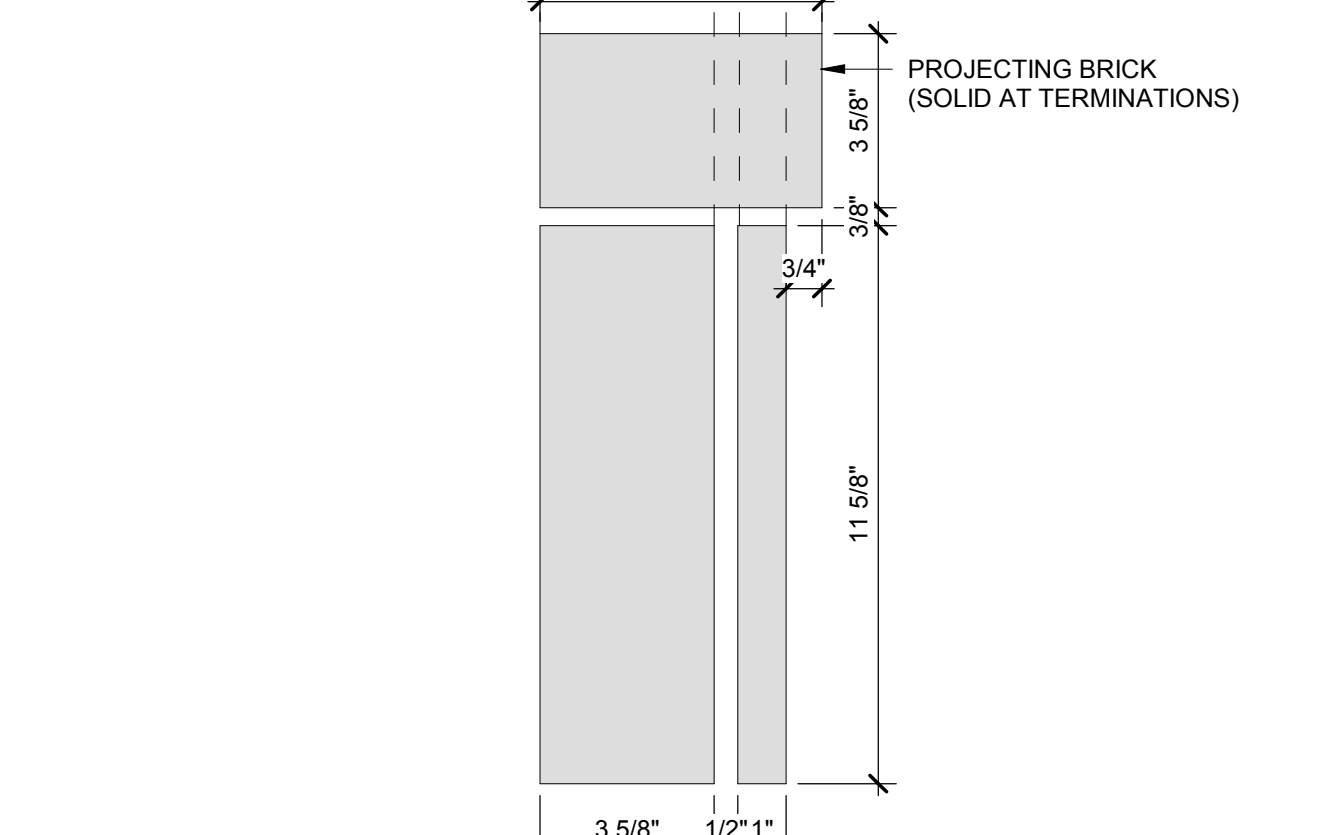
CORNER PLAN AT SOLDIER COURSE



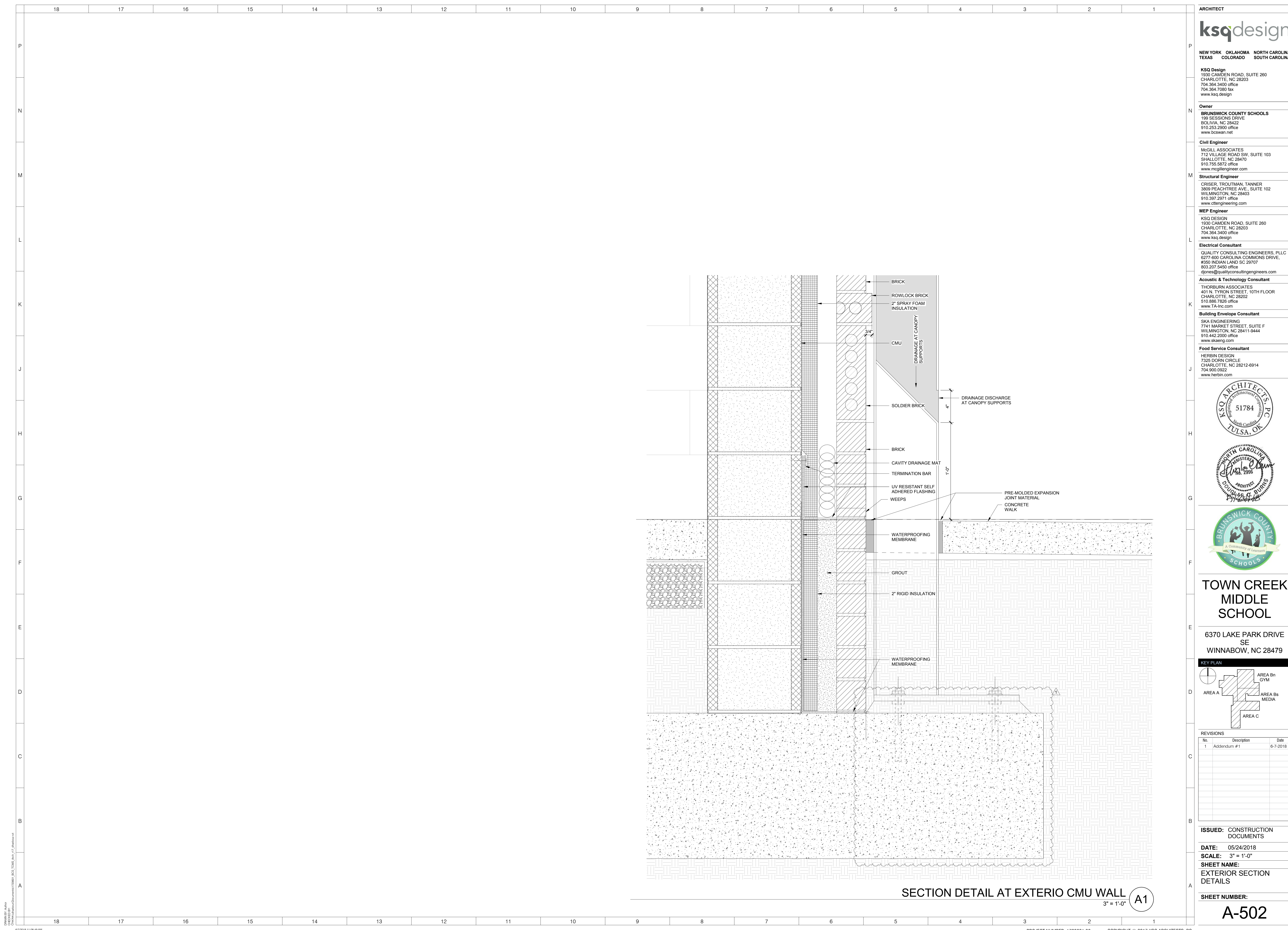
CORNER ELEVATION AT SOLDIER COURSE



OPENING PLAN AT SOLDIER COURSE

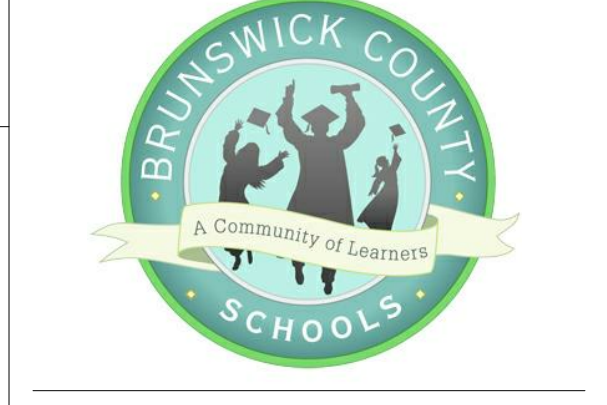


OPENING ELEVATION AT SOLDIER COURSE



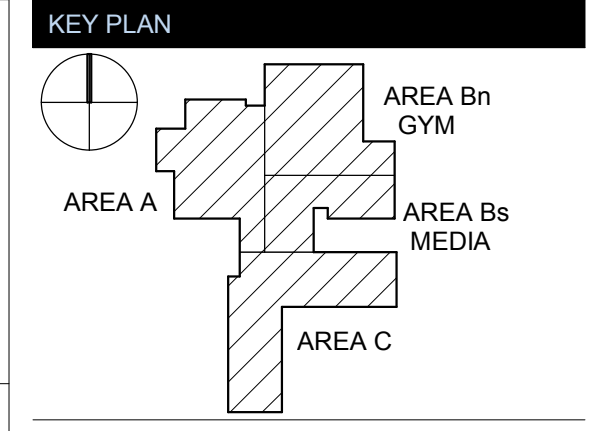
SECTION DETAIL AT EXTERIO CMU WALL (A1)
3" = 1'-0"

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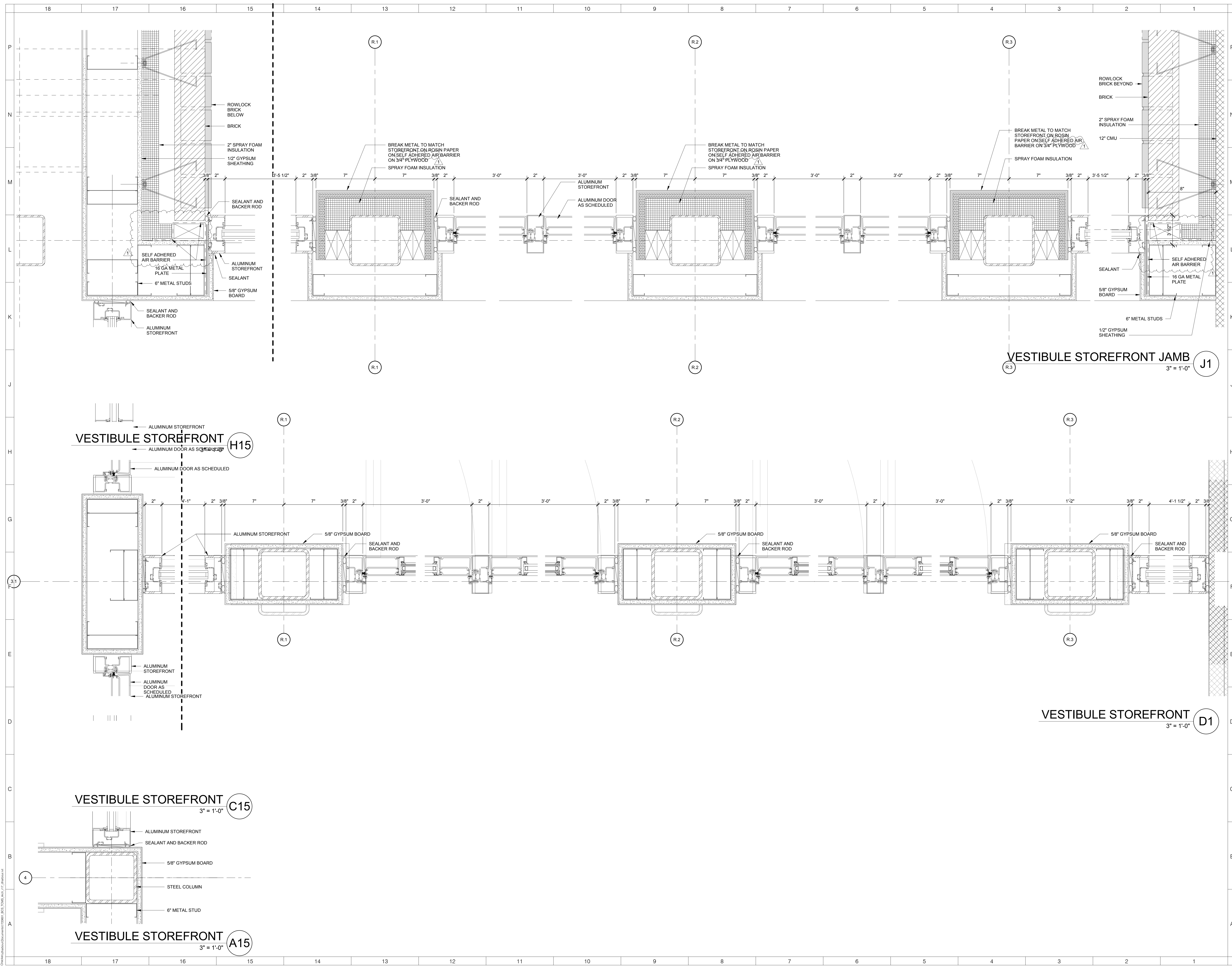
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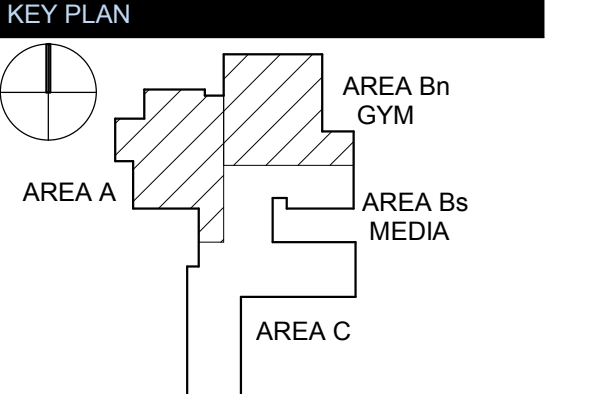
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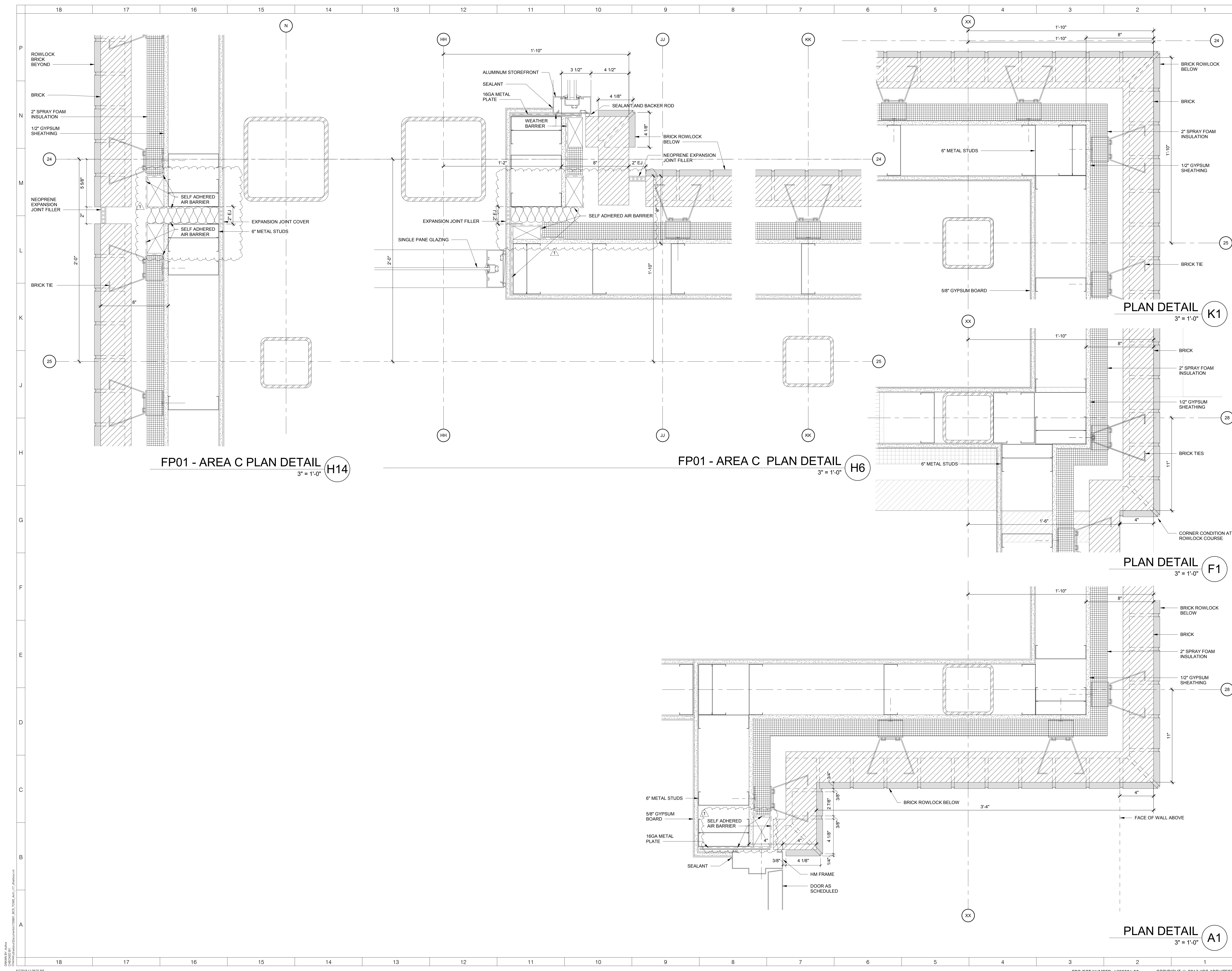
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No.	Description	Date
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SCALE: 3" = 1'-0"
SHEET NAME: EXTERIOR PLAN DETAILS

SHEET NUMBER:
A-511



FP01 - AREA C PLAN DETAIL H14
3" = 1'-0"

FP01 - AREA C PLAN DETAIL H6
3" = 1'-0"

PLAN DETAIL K1
3" = 1'-0"

PLAN DETAIL F1
3" = 1'-0"

PLAN DETAIL A1
3" = 1'-0"

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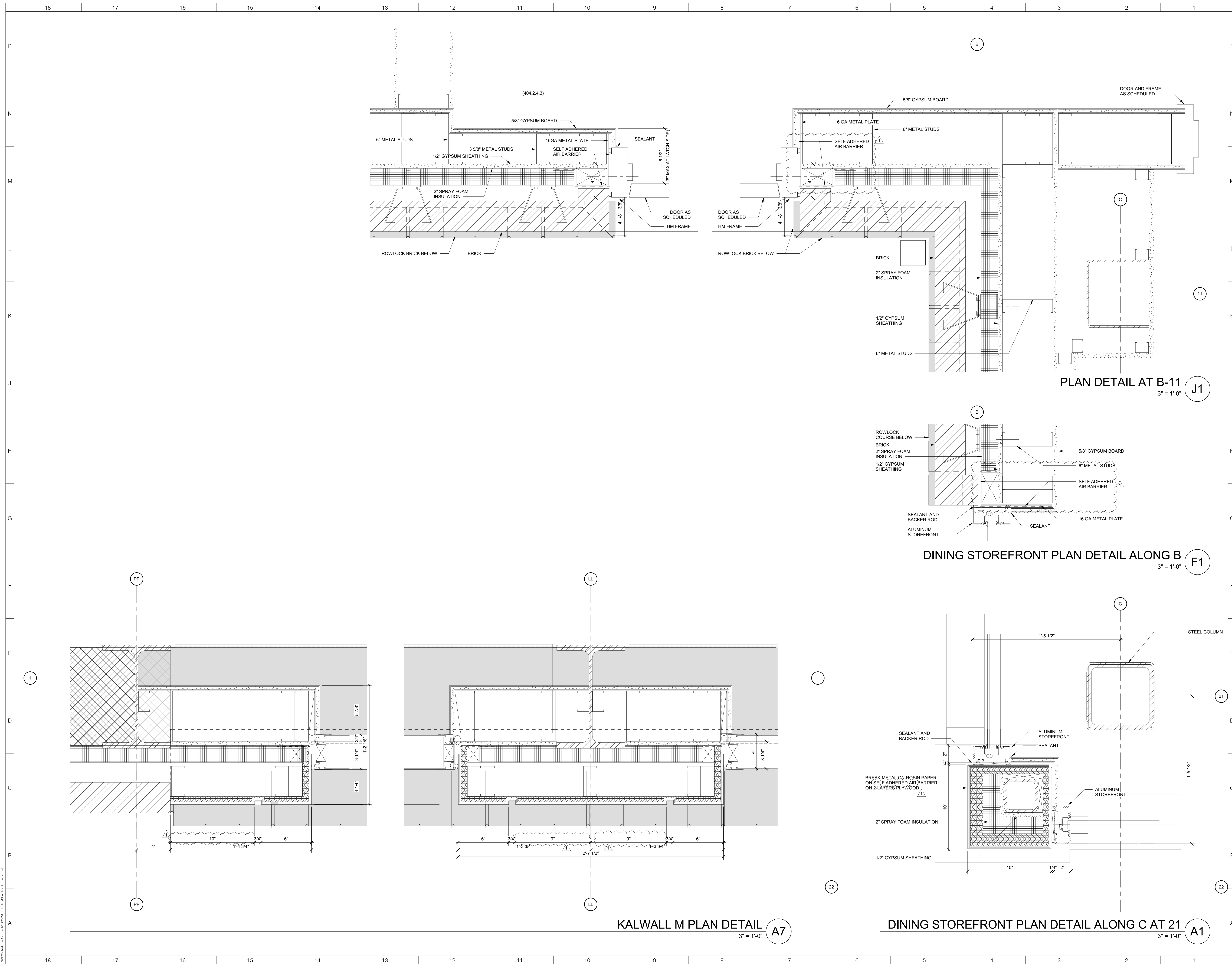
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KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

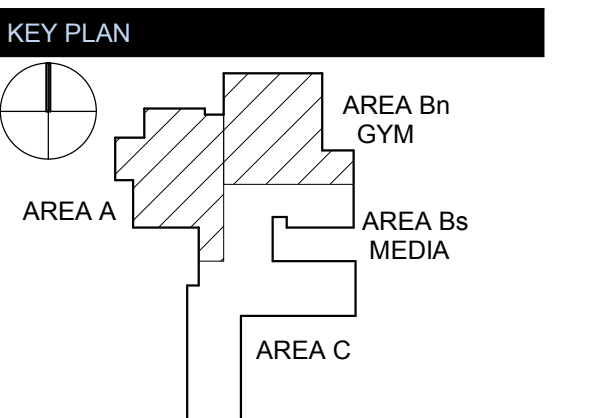
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SHEET NUMBER: A-512

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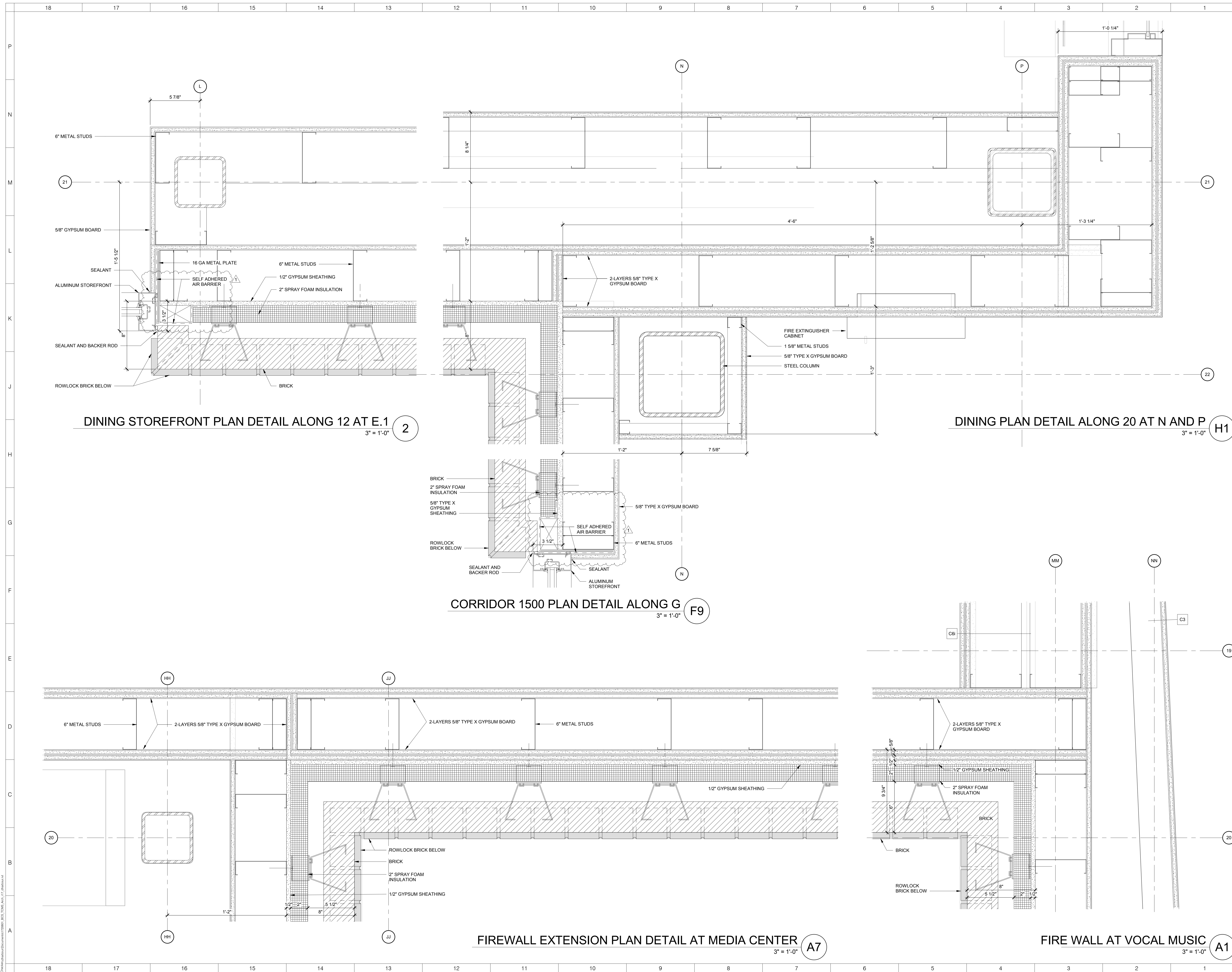
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SCALE: 3" = 1'-0"

SHEET NAME: EXTERIOR PLAN DETAILS

SHEET NUMBER:

A-513



DINING STOREFRONT PLAN DETAIL ALONG 12 AT E.1
3" = 1'-0" 2

DINING PLAN DETAIL ALONG 20 AT N AND P
3" = 1'-0" H1

CORRIDOR 1500 PLAN DETAIL ALONG G
3" = 1'-0" F9

FIREWALL EXTENSION PLAN DETAIL AT MEDIA CENTER
3" = 1'-0" A7

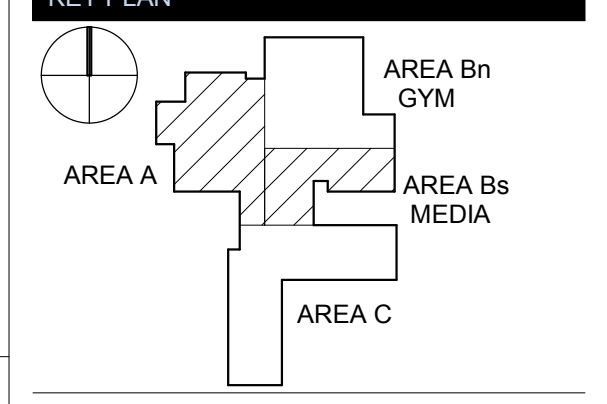
FIRE WALL AT VOCAL MUSIC
3" = 1'-0" A1

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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479

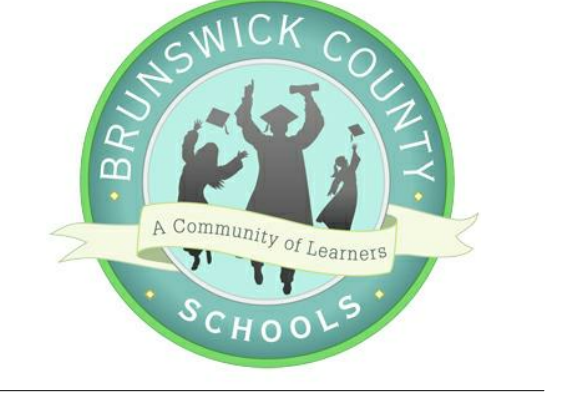


REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

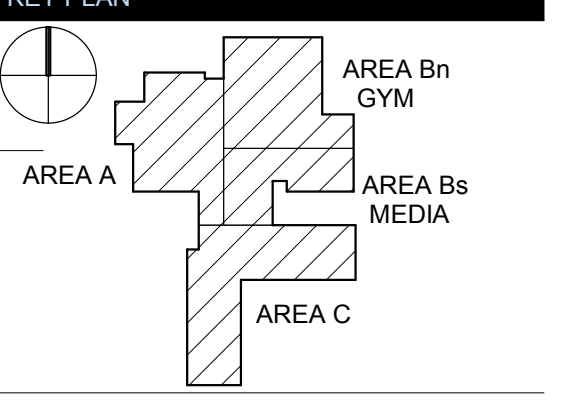
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DATE: 05/24/2018
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SHEET NAME:
 EXTERIOR PLAN DETAILS

SHEET NUMBER:
A-514



TOWN CREEK MIDDLE SCHOOL

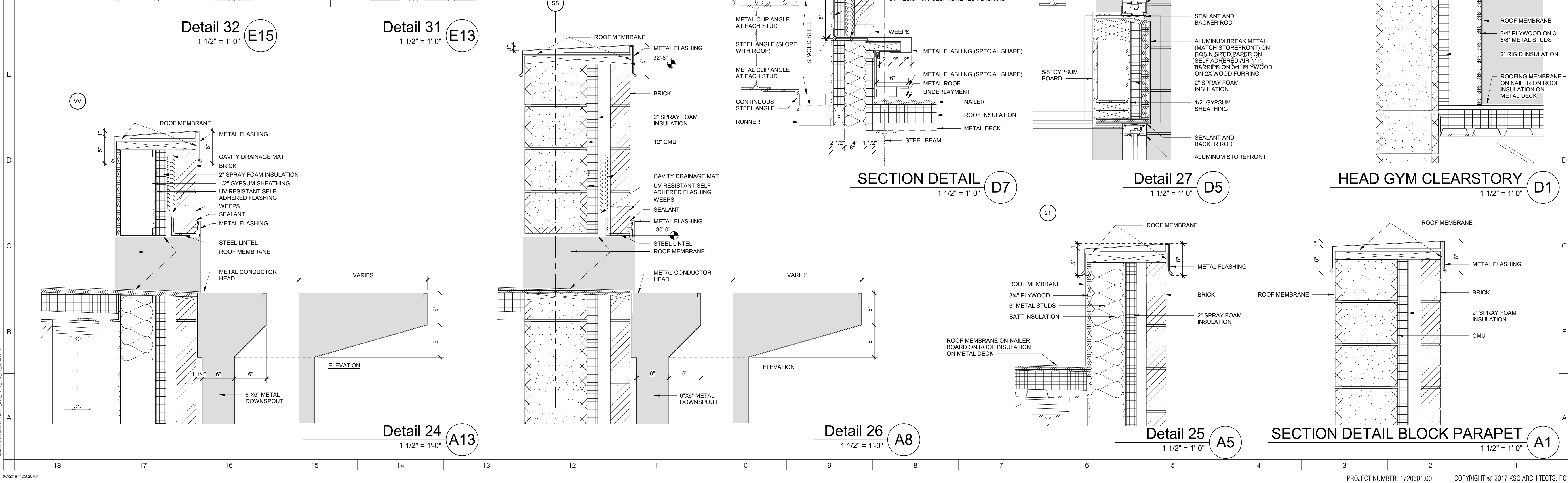
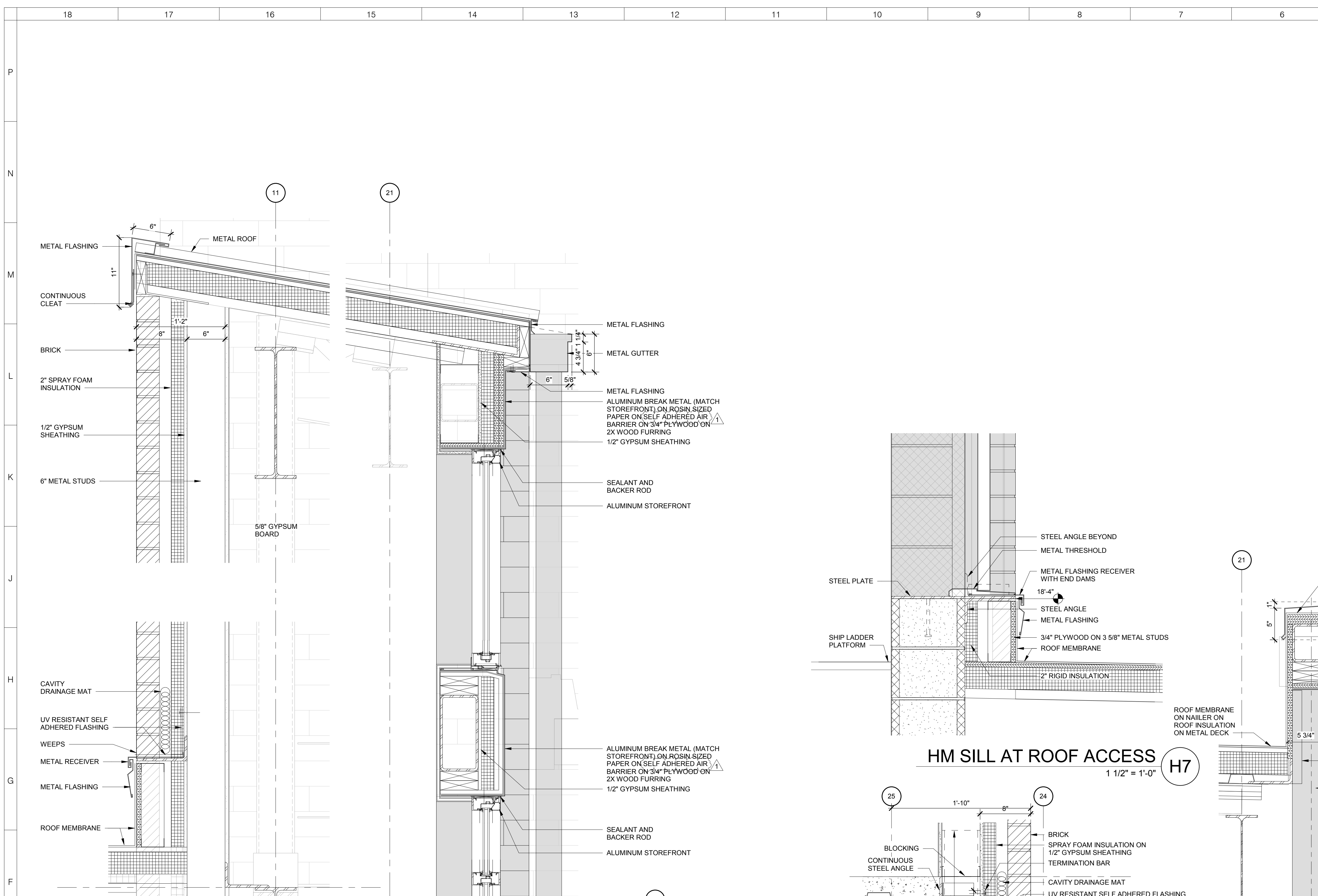
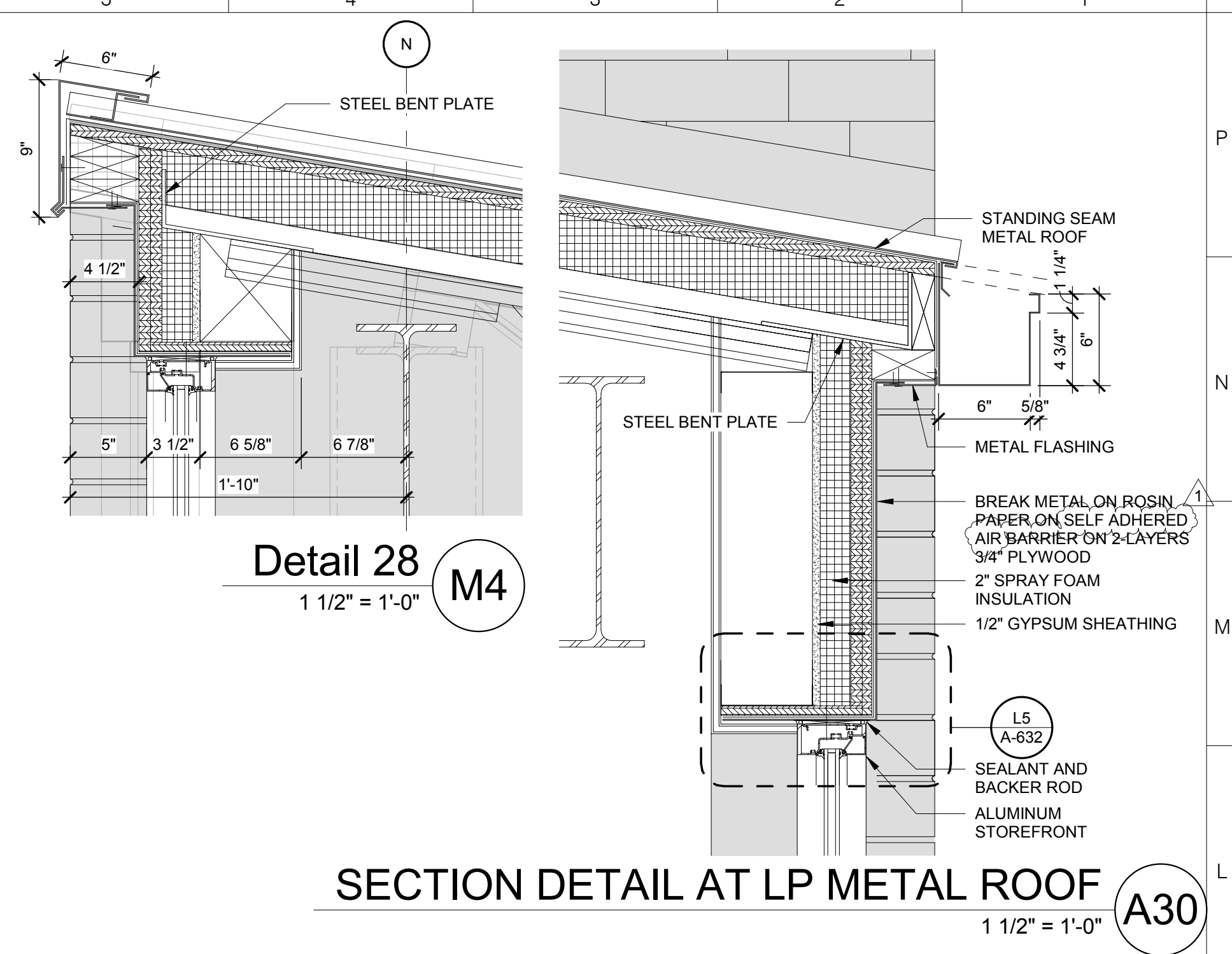
6370 LAKE PARK DRIVE
SE
WINNABOW, NC 28479

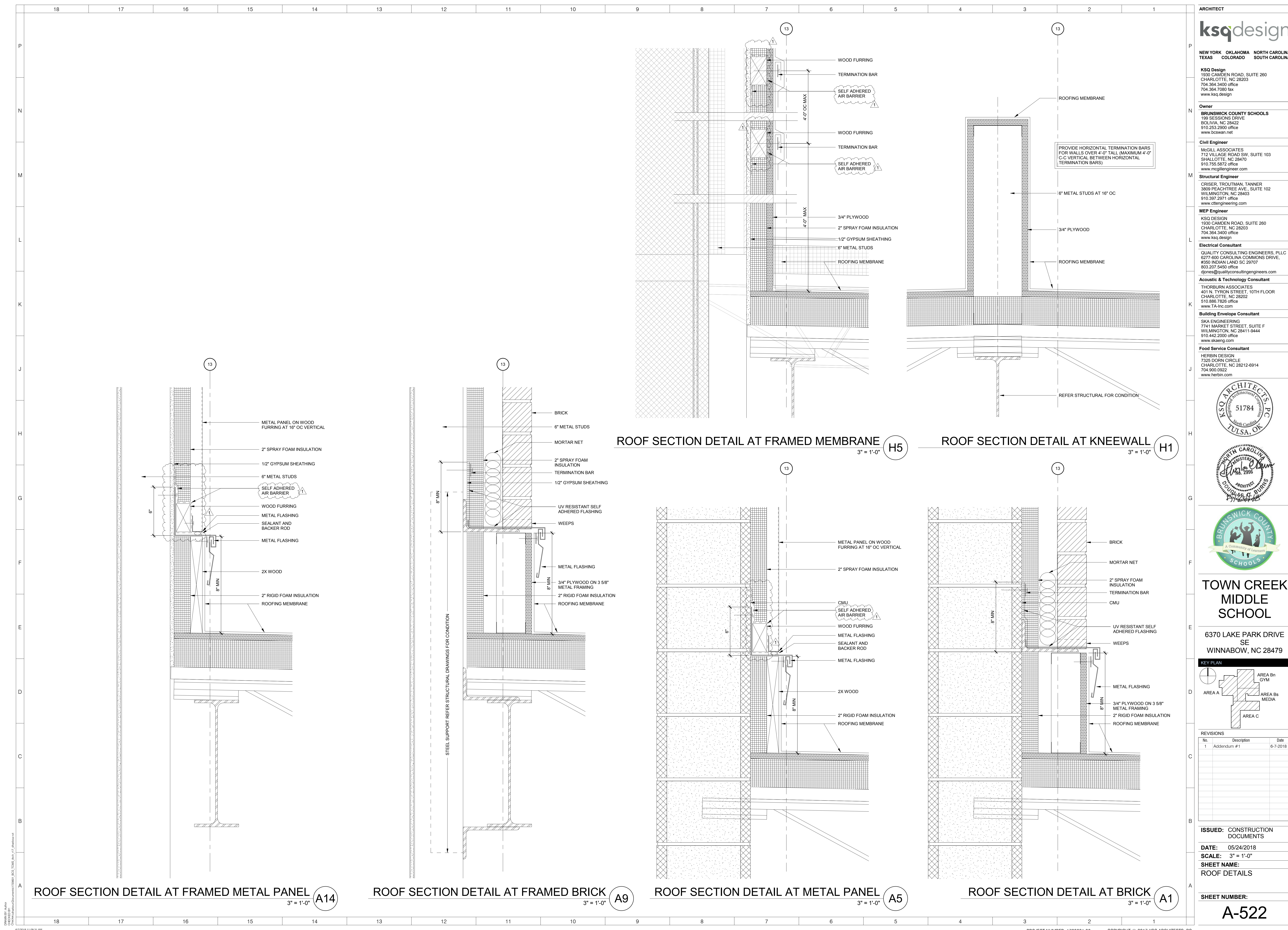


REVISIONS		
No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
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SHEET NAME: ROOF DETAILS

SHEET NUMBER:

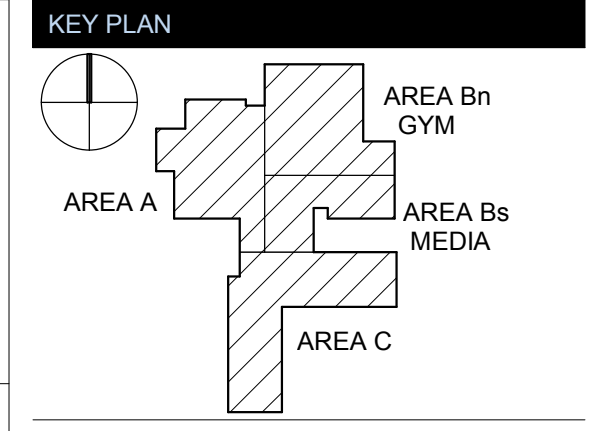




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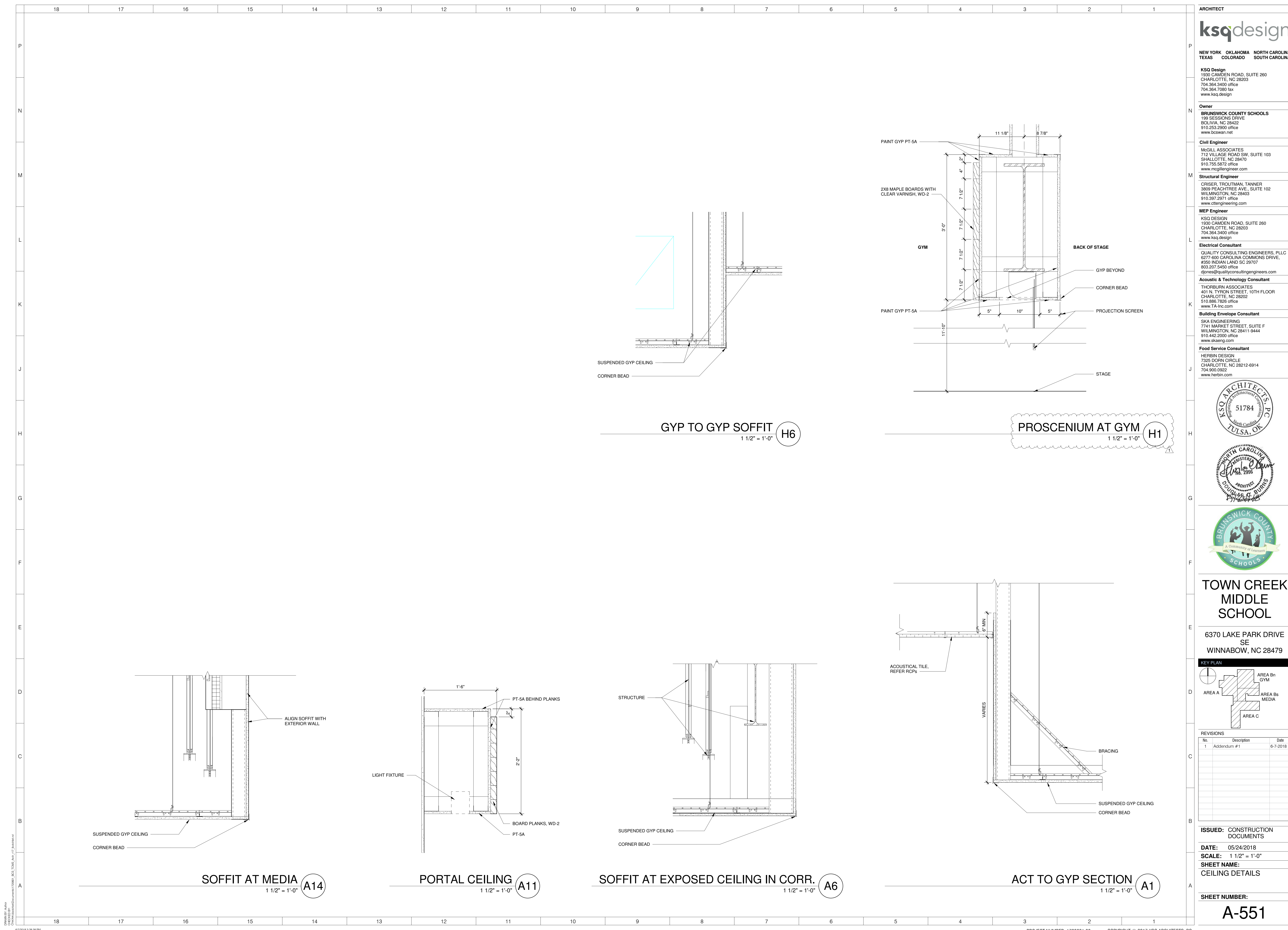


REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 3" = 1'-0"
SHEET NAME: ROOF DETAILS

SHEET NUMBER:
A-522

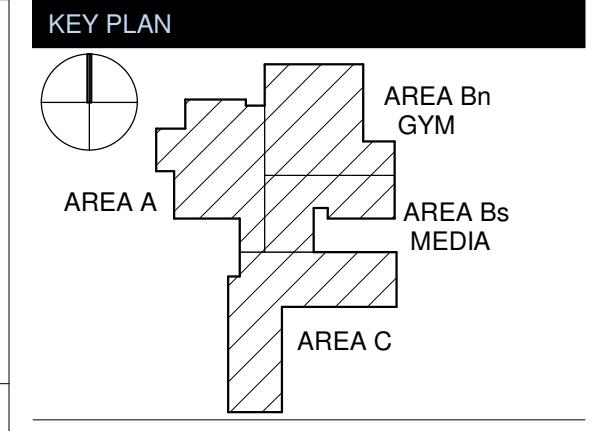


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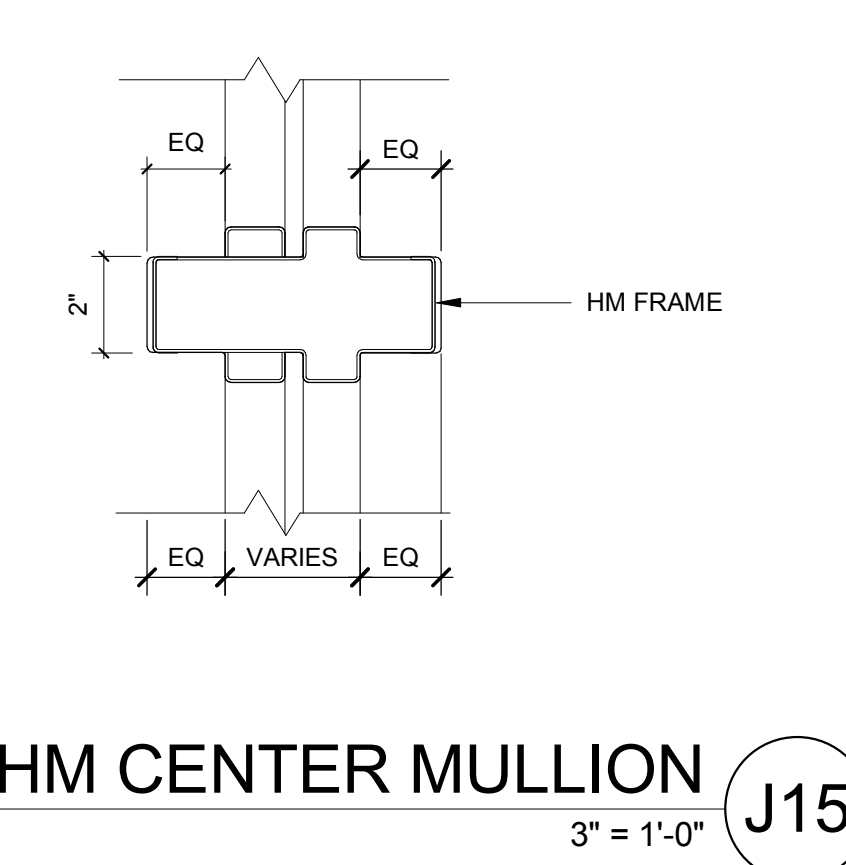
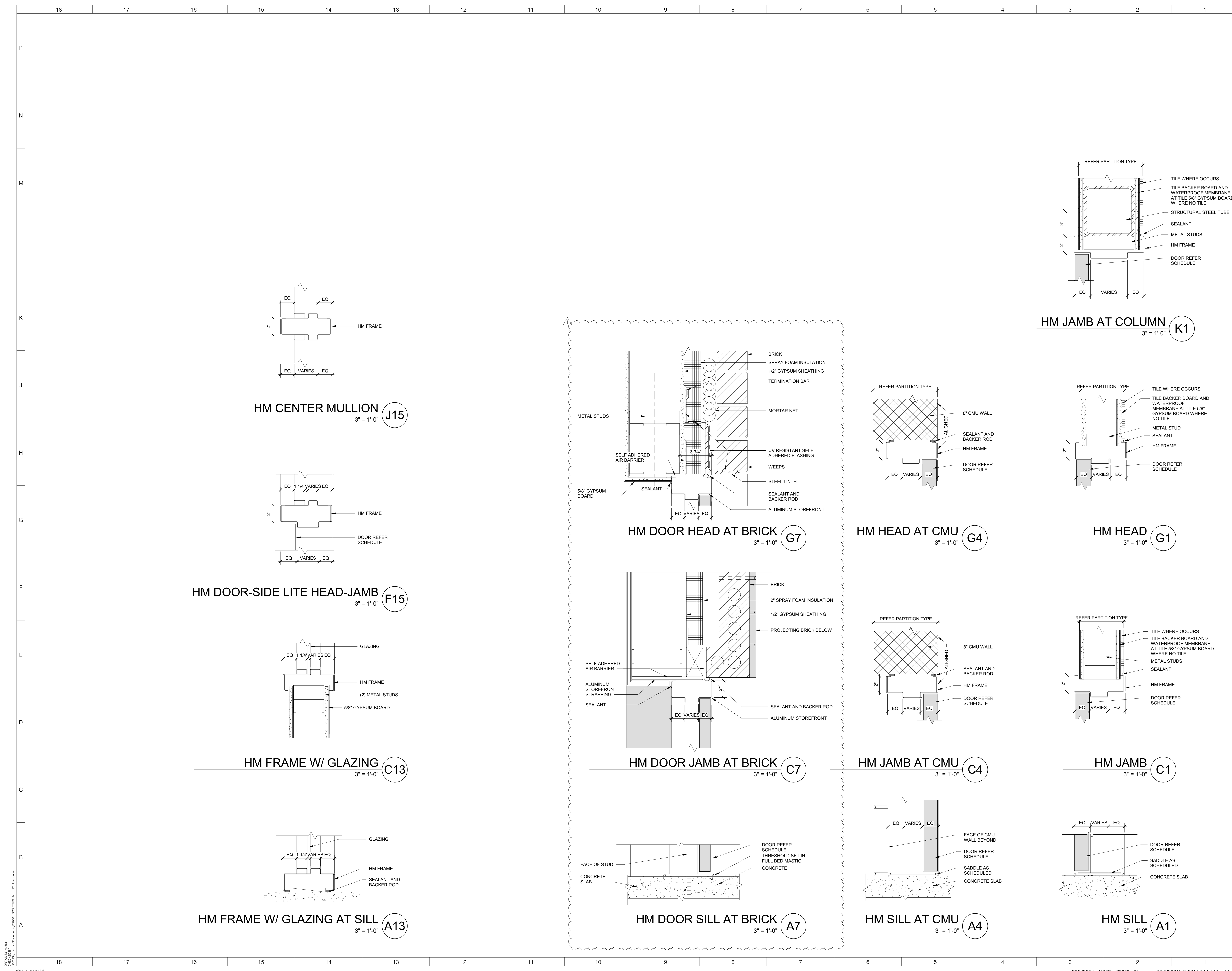


REVISIONS

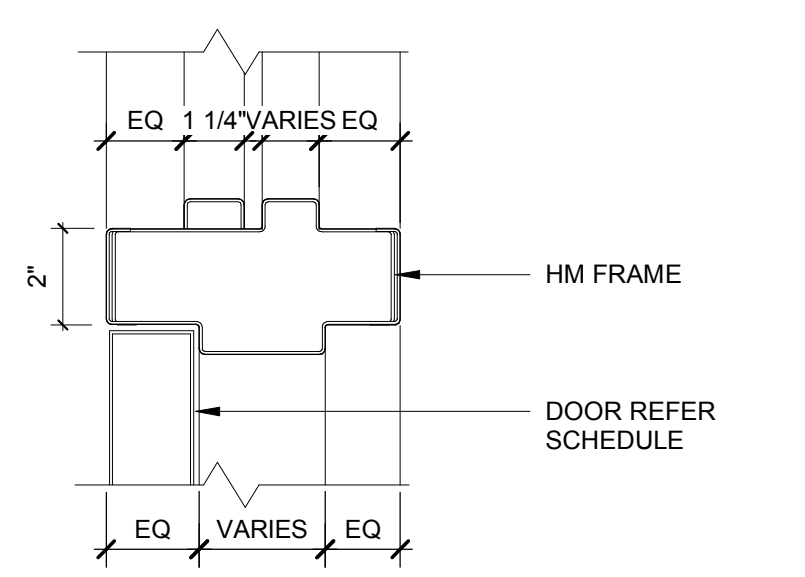
No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1 1/2" = 1'-0"
SHEET NAME: CEILING DETAILS
SHEET NUMBER:

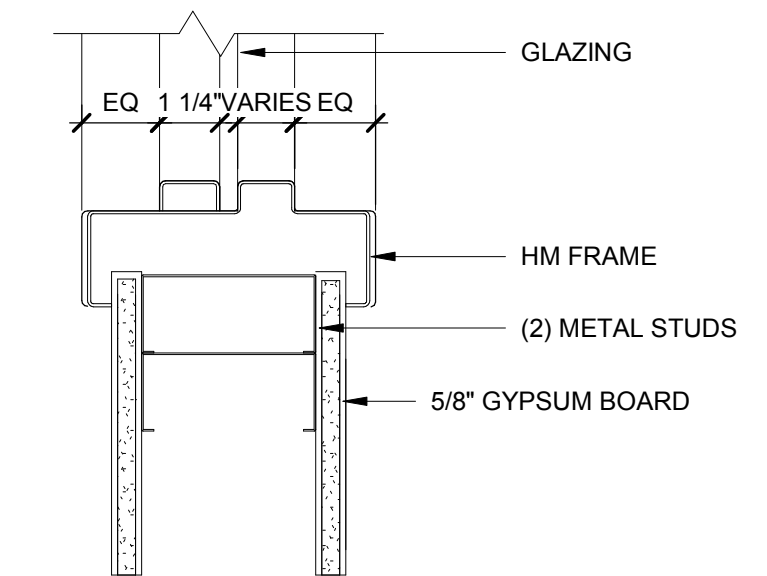
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					WIDTH	HEIGHT	THICKNESS	GLASS TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL						
					GLASS TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL												
1001A	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	---	YES	01	---	AUTO DOOR OPERATOR		
1001B	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	---	YES	02	---			
1001C	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	---	YES	02	---			
1001D	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	---	YES	02	---			
1001E	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	H1/A-511	C4/A-631	---	YES	03	---			
1001F	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	H1/A-511	C4/A-631	---	YES	04	---			
1001G	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	H1/A-511	C4/A-631	---	YES	04	---			
1002A	TOILET	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	43	---		
1100C	COMMONS CORRIDOR	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	47	---		
1101	PARENT CENTER	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1102A	RECEPTION	A-101A	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	C15/H15/A-511	C4/A-631	---	---	06	---			
1102B	RECEPTION	A-101A	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	C15/A-511	C4/A-631	---	---	05	---			
1102C	CORRIDOR	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	55	---		
1103A	WORKROOM	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	56	---		
1103B	WORKROOM	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	33	---		
1104	OFFICE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1105	SECURED RECORDS	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	22	---		
1106	OFFICE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1107	STORAGE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	49	---		
1108	ASSIST. PRINCIPAL	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1110	STORAGE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	49	---		
1112	PRINCIPAL OFFICE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1114	CONF. RM 1	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1115	STAFF	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	12	---		
1116	GUIDANCE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1117	STAFF	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	12	---		
1118	NURSE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	12	---		
1118B	TOILET / SHOWER	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	22	---		
1119	BOOK STORAGE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1120	IN-SCHOOL SUSPENSION	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1121	RESOURCE OFFICER	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1122	IT M/D	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	53	---		
1201A	GYM	A-101Bn	---	NL	6'-0"	8'-6"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	YES	45 MIN	YES	47	WIRE GLASS IN GLAZING	
1201B	GYM	A-101Bn	---	NL	6'-0"	8'-6"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	YES	45 MIN	YES	47	WIRE GLASS IN GLAZING	
1201C	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	10	PAINT TO MATCH BRICK TYPE 1		
1201D	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	41	PAINT TO MATCH BRICK TYPE 1		
1201E	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	41	PAINT TO MATCH BRICK TYPE 1		
1201F	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	41	PAINT TO MATCH BRICK TYPE 1		
1202	SNACK BAR	A-101Bn	---	FL	8'-0"	6'-2"	---	STEEL	---	---	---	---	A2/A-612	A1/A-612	A2/A-612	---	1 HR	---	---	ROLLING COUNTER FIRE DOOR		
1202A	SNACK BAR	A-101Bn	---	FD	8'-0"	6'-2"	---	STEEL	---	---	---	---	A2/A-612	A1/A-612	A2/A-612	---	1 HR	---	---	---	ROLLING COUNTER FIRE DOOR	
1203A	STORAGE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	---	---	18	---		
1203B	STORAGE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	---	---	49	---		
1204A	VESTIBULE	A-101Bn	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	45 MIN	---	WIRE GLASS IN GLAZING	
1204B	VESTIBULE	A-101Bn	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1205	VESTIBULE	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	48	---	1'-6" X 1'-6" LOUVER	
1206A	GIRLS DRESSING ROOM	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1206B	TOILET	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	38	---		
1207	OFFICE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1208A	VESTIBULE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1208B	TOILET	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	39	---		
1209A	GYM	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---	1'-6" X 1'-6" LOUVER	
1209B	GYM	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---	1'-6" X 1'-6" LOUVER	
1211	OFFICE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18	---		
1212A	ROOF ACCESS	A-101Bn	---	FL	2'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	51	---		
1212B	ROOF ACCESS	A-101Bn	---	FL	3'-0"	7'-2"	1'-3/4"	---	HM	PT	C	HM	PT	G7/A-611	C7/A-611	H7/A-521	YES	---	52	---	DOOR TO ROOF, PAINT TO MATCH BRICK TYPE 1	
1213	VESTIBULE	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	48	---	1'-6" X 1'-6" LOUVER	
1302A	DINING	A-101A	---	NL	6'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	45 MIN	YES	36	WIRE GLASS IN GLAZING
1302B	DINING	A-101A	---	NL	6'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	YES	27	DOUBLE WIDTH FOR PAIR	
1302C	DINING	A-101A	---	SC	3'-0"	8'-6"	---	ALUM	CLR	B	ALUM	CLR	G4/A-631	E4/A-631	C4/A-631	---	---	YES	27	SMOKE GUARD CURTAIN		
1303	LOADING AREA	A-101A	---	FL	4'-0"	7'-0"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	---	30	---	IN SCRAPER WALL, PAINT TO MATCH BRICK TYPE 1	
1308A	KITCHEN	A-101A	---	FL	4'-0"	8'-4"	1'-3/4"	---	HM	PT	A	HM	PT	G7/A-611	J1/A-513	A7/A-611	YES	---	37	---	PAINT TO MATCH BRICK TYPE 1	
1308B	KITCHEN	A-101A	---	FL	4'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	61	---		
1308C	KITCHEN	A-101A	---	FL	3'-0"	7'-																



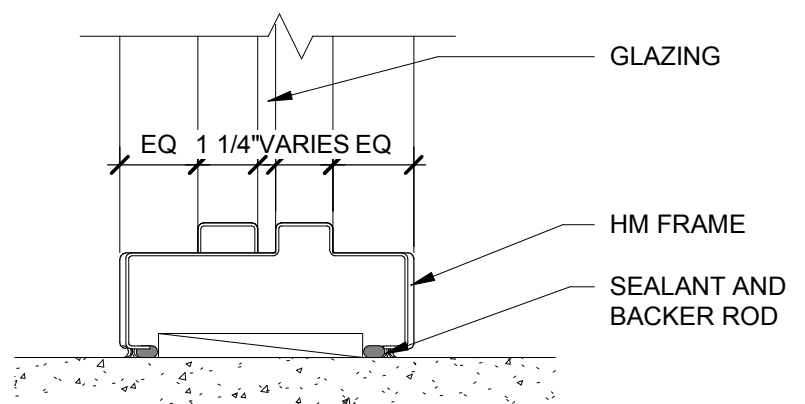
HM CENTER MULLION
3" = 1'-0" J15



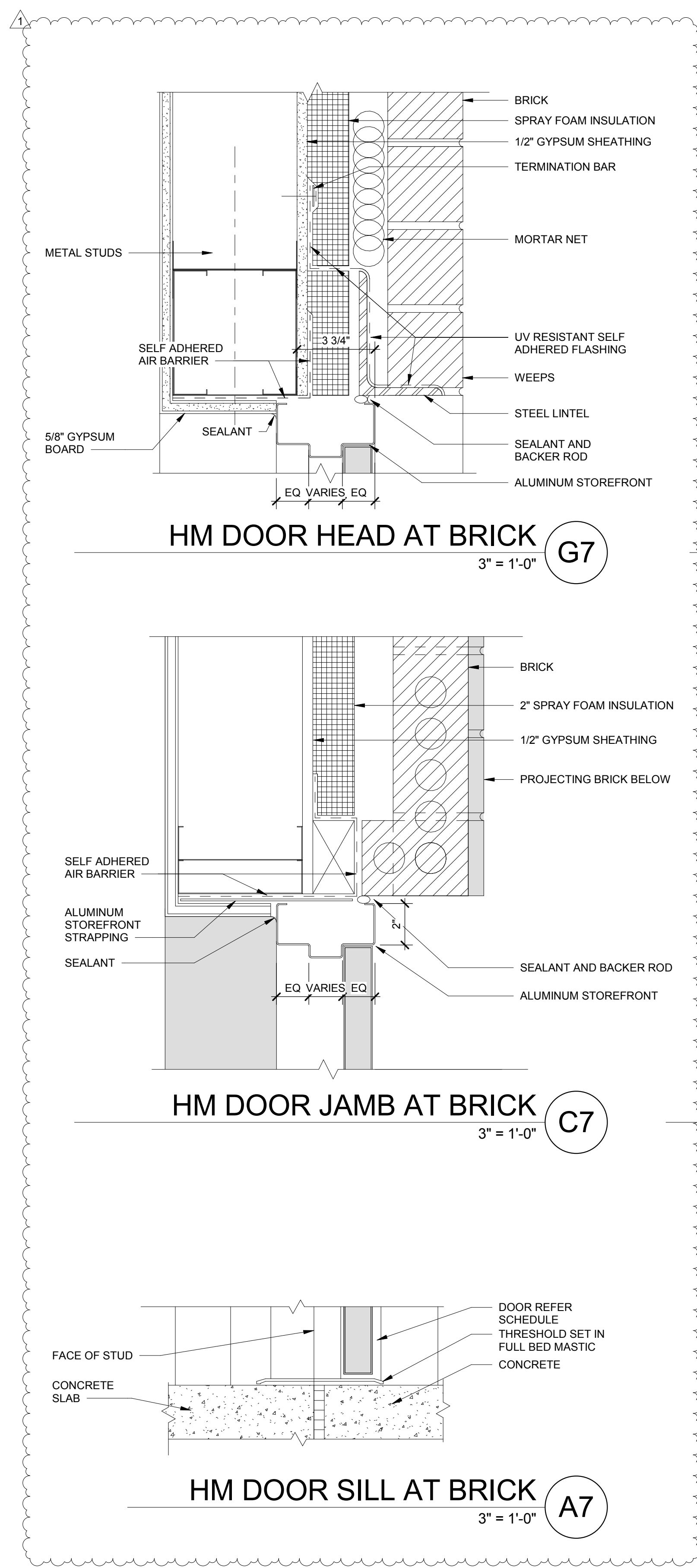
HM DOOR-SIDE LITE HEAD-JAMB
3" = 1'-0" F15



HM FRAME W/ GLAZING
3" = 1'-0" C13



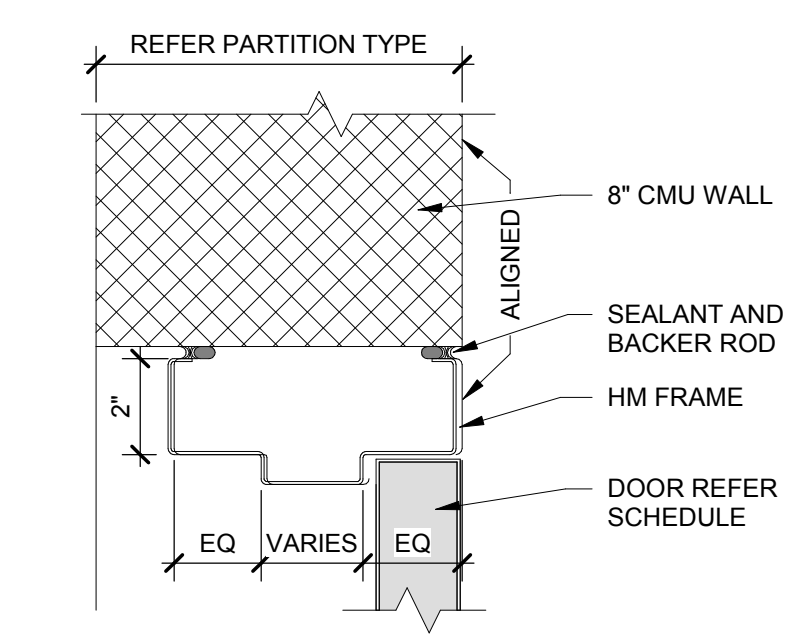
HM FRAME W/ GLAZING AT SILL
3" = 1'-0" A13



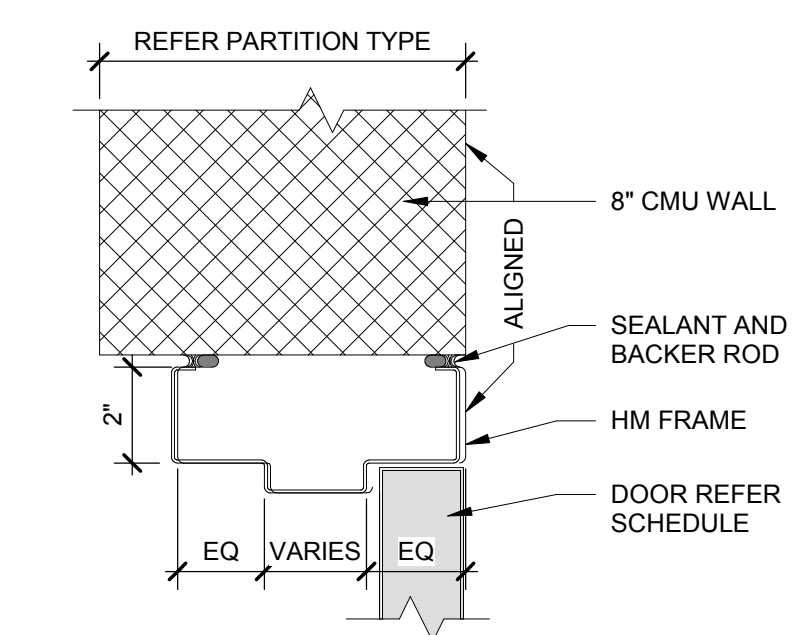
HM DOOR HEAD AT BRICK
3" = 1'-0" G7

HM DOOR JAMB AT BRICK
3" = 1'-0" C7

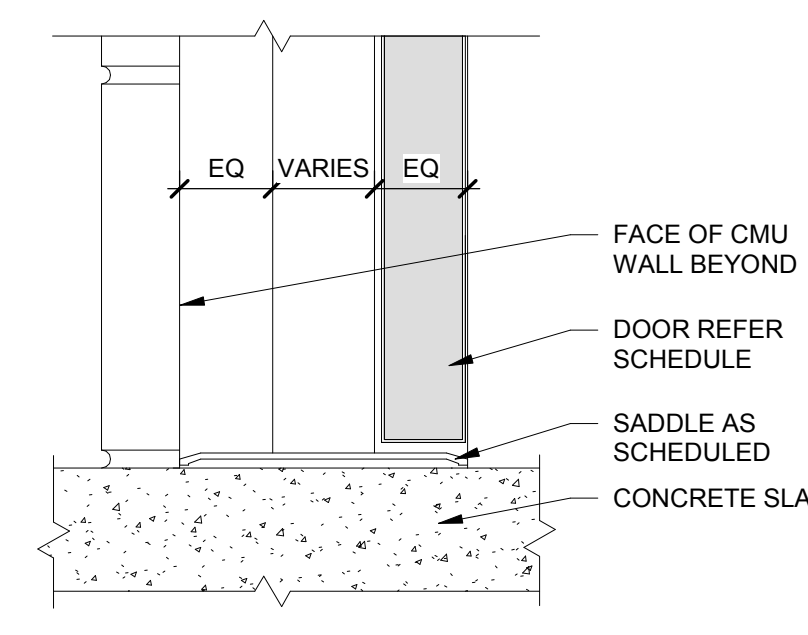
HM DOOR SILL AT BRICK
3" = 1'-0" A7



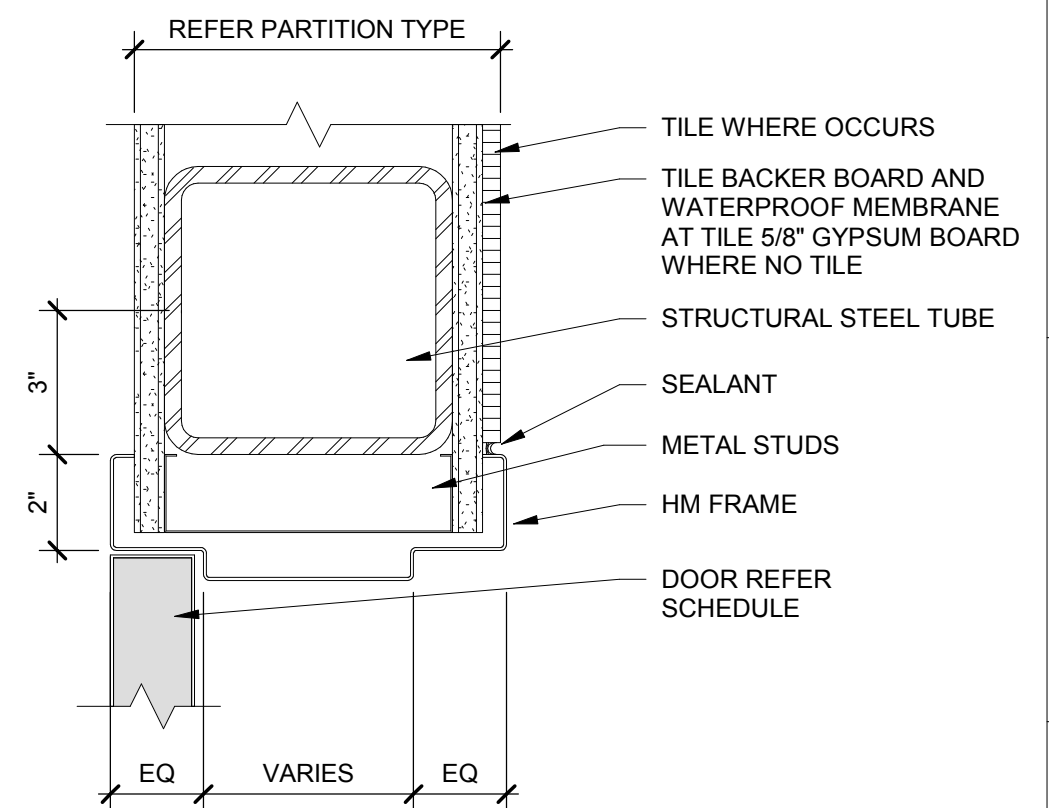
HM HEAD AT CMU
3" = 1'-0" G4



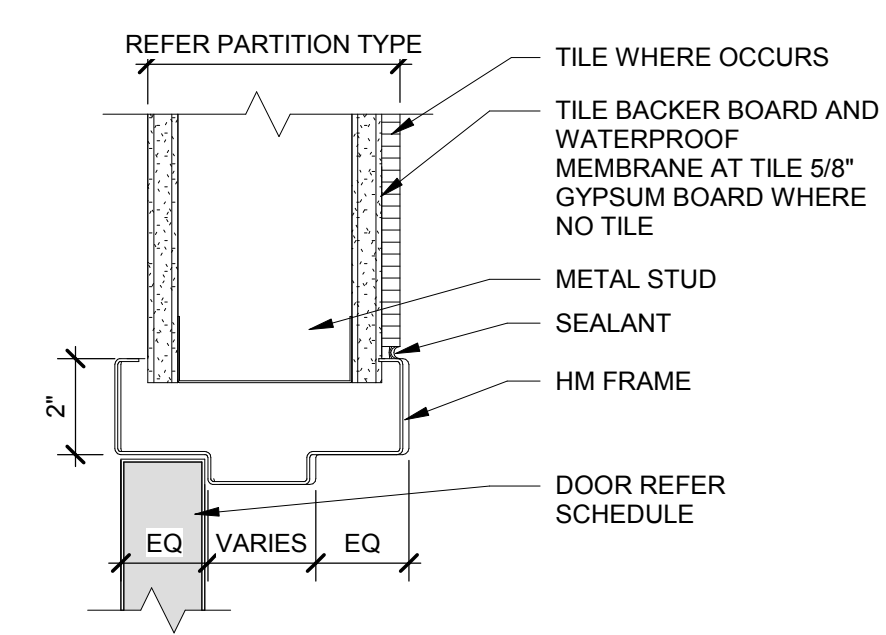
HM JAMB AT CMU
3" = 1'-0" C4



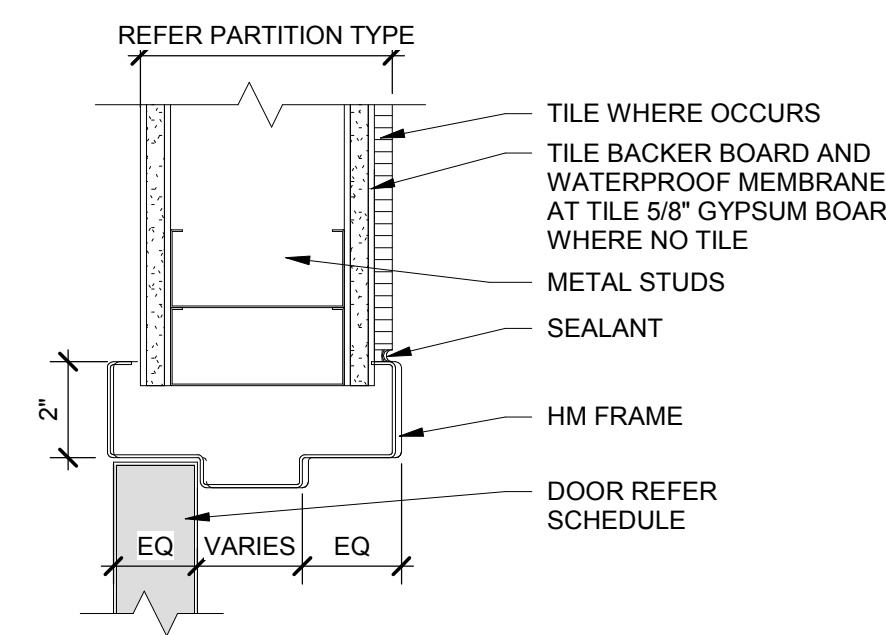
HM SILL AT CMU
3" = 1'-0" A4



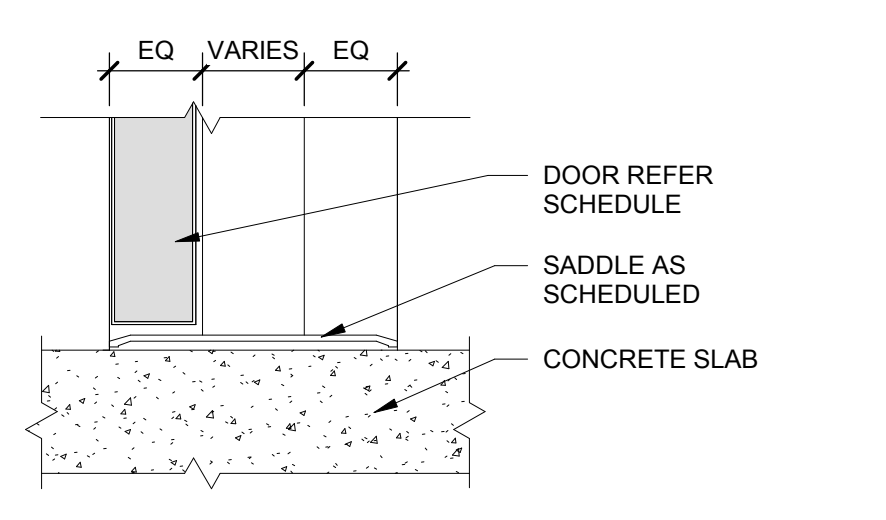
HM JAMB AT COLUMN
3" = 1'-0" K1



HM HEAD
3" = 1'-0" G1



HM JAMB
3" = 1'-0" C1



HM SILL
3" = 1'-0" A1

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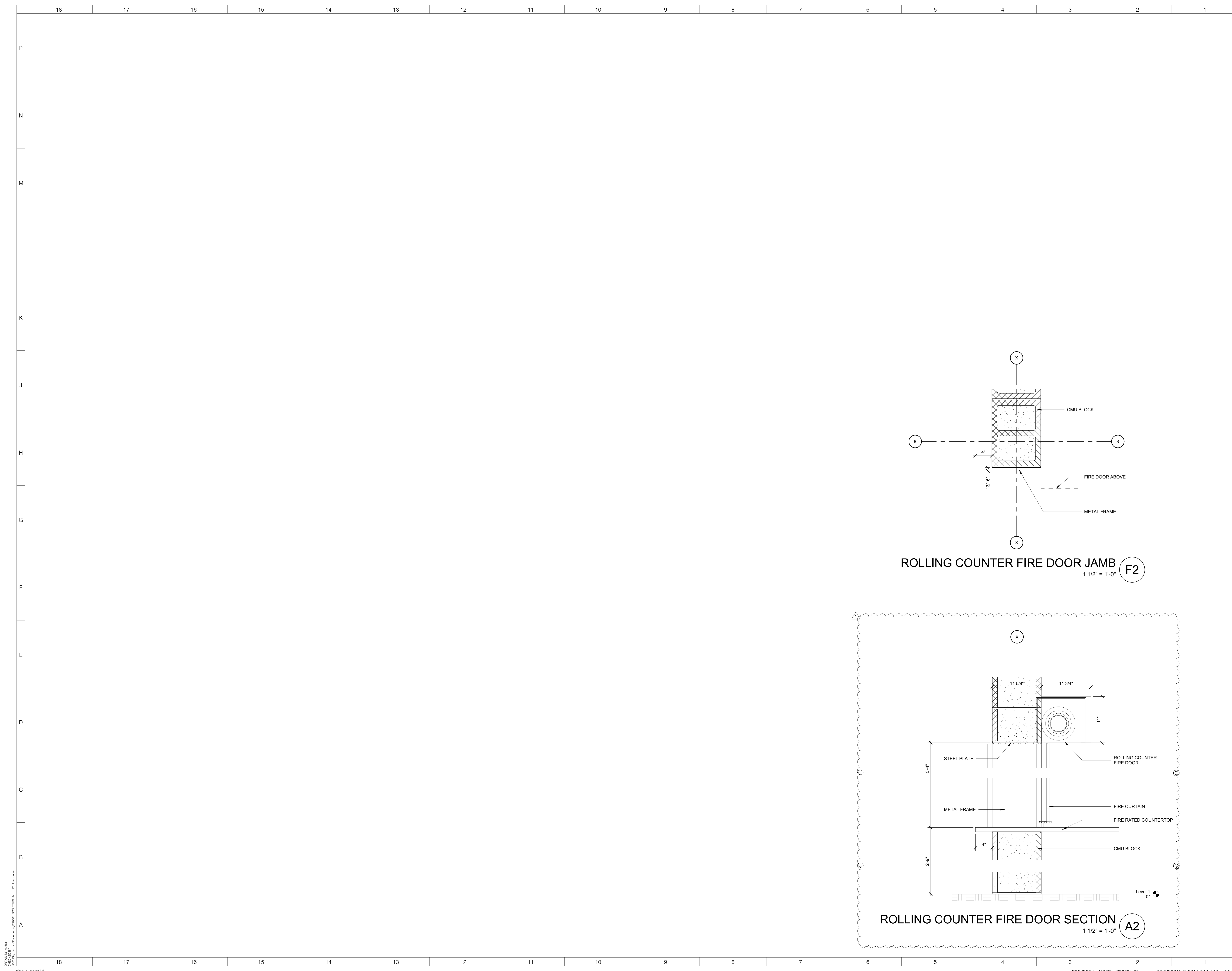
KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 3" = 1'-0"
SHEET NAME: DOOR DETAILS
SHEET NUMBER: A-611

PROJECT NUMBER: 1720601.00 COPYRIGHT © 2017 KSQ ARCHITECTS, PC



ROLLING COUNTER FIRE DOOR JAMB
1 1/2" = 1'-0" (F2)

ROLLING COUNTER FIRE DOOR SECTION
1 1/2" = 1'-0" (A2)

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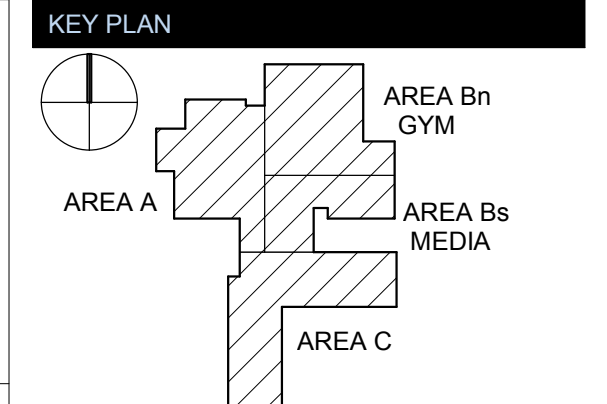
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1 1/2" = 1'-0"
SHEET NAME: DOOR DETAILS
SHEET NUMBER:

A-612

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

GLASS TYPES

G1 - 1" INSULATING, BOTH PANES TEMPERED
 G2 - 1" INSULATING, LAMINATED
 G3 - 1/4" INSULATING, NON-TEMPERED
 G4 - 1/4" CLEAR TEMPERED GLASS
 G5 - 1/4" CLEAR SAFETY WIRE GLASS
 G6 - 1" INSULATING W/ SPANDREL, BOTH PANES TEMPERED

WINDOW LEGEND

■ SPANDREL

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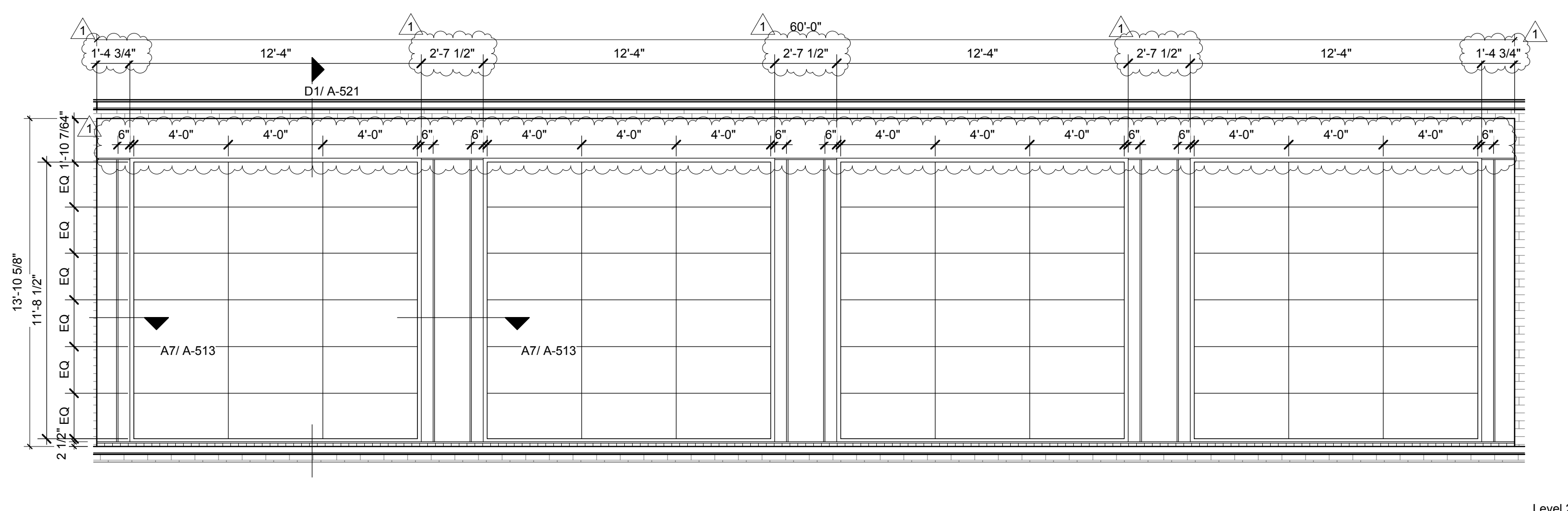
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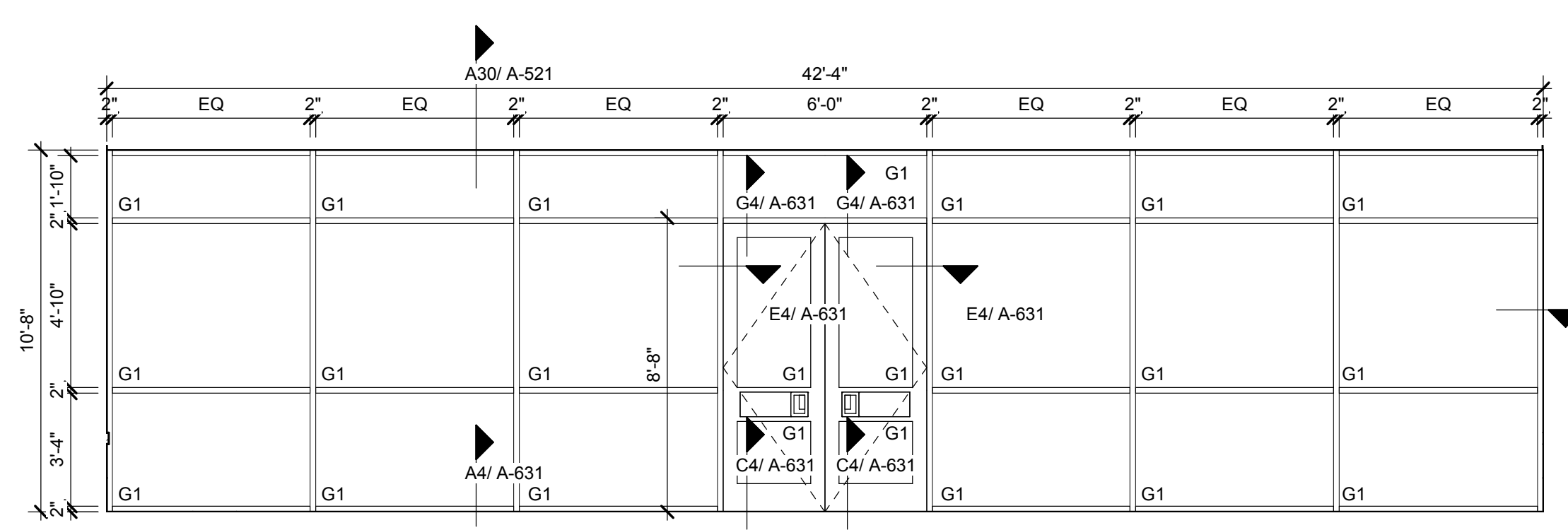
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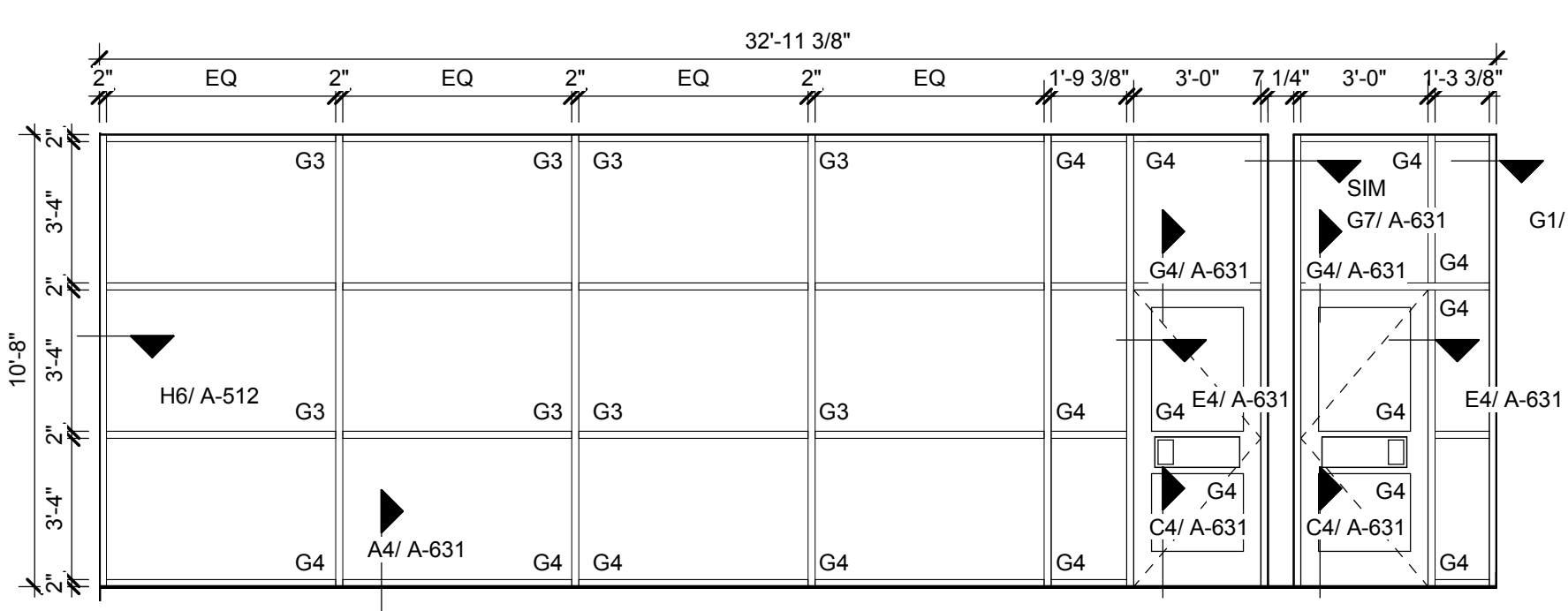
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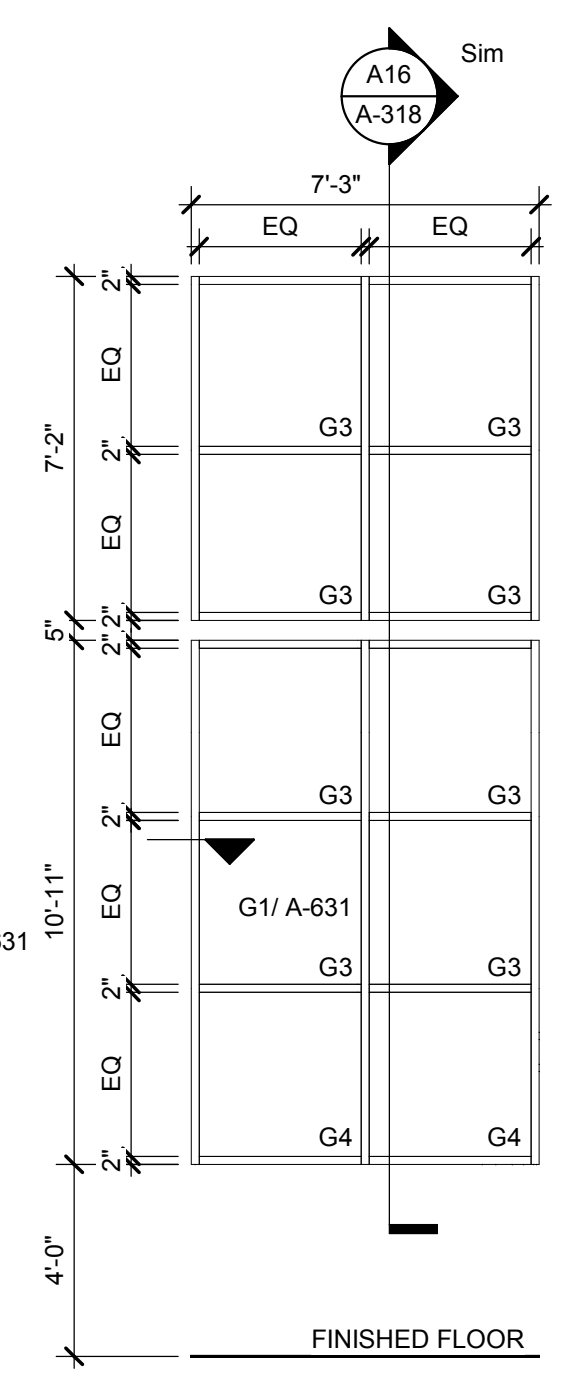
KALWALL M - GYM CLERESTORY
 1/4" = 1'-0" K1



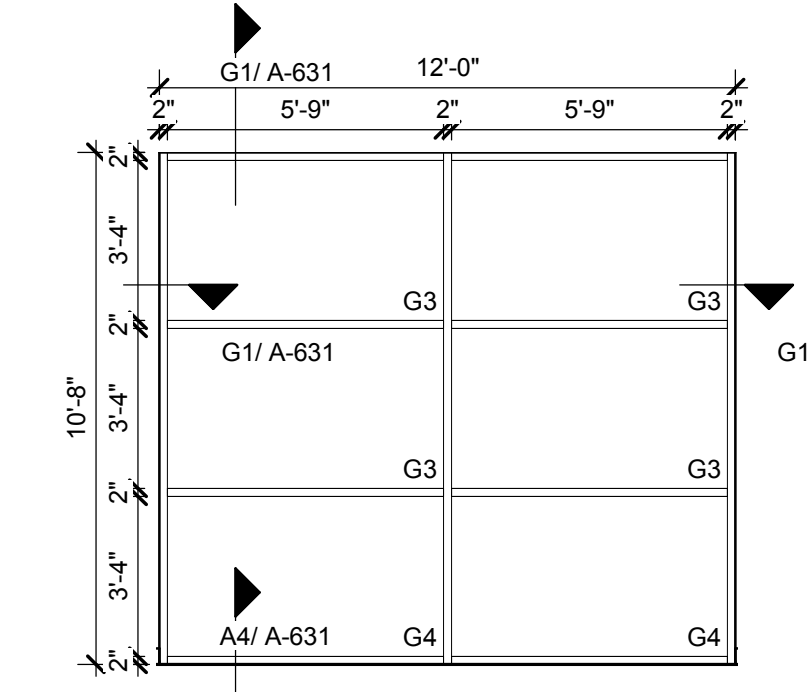
SF L - MEDIA to COURTYARD
 1/4" = 1'-0" F13



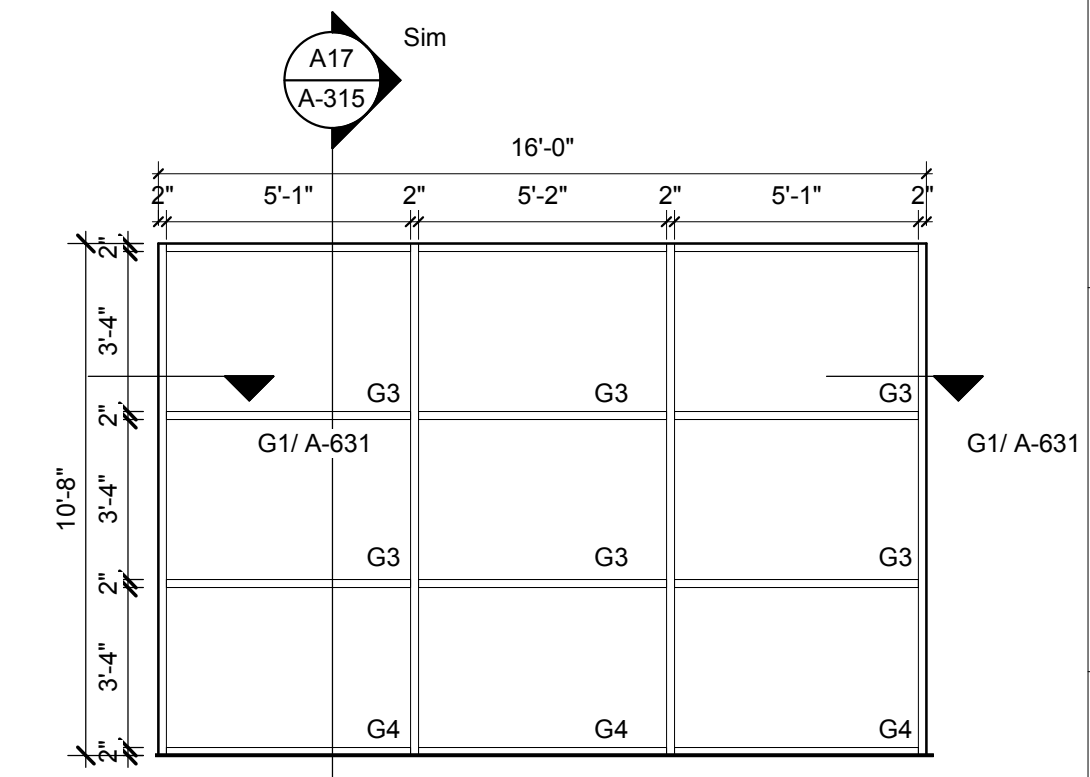
SF K - MEDIA to MAKER SPACE
 1/4" = 1'-0" F8



SF J - STAIRS
 1/4" = 1'-0" F6

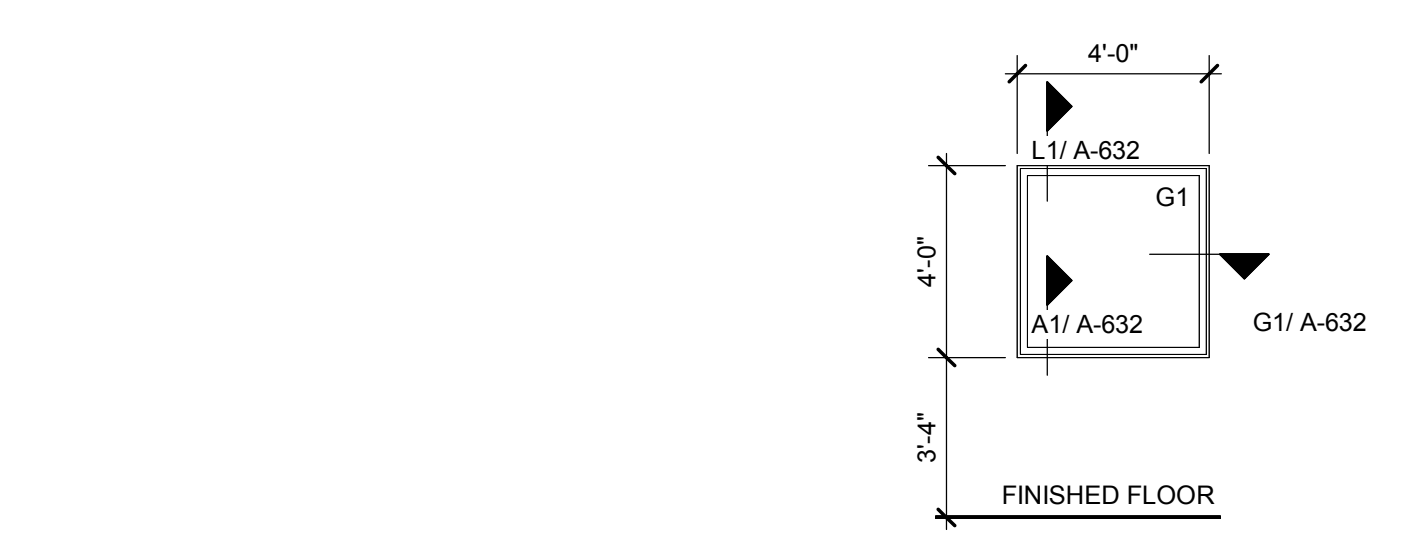


SF H - MEDIA to COOR
 1/4" = 1'-0" F4

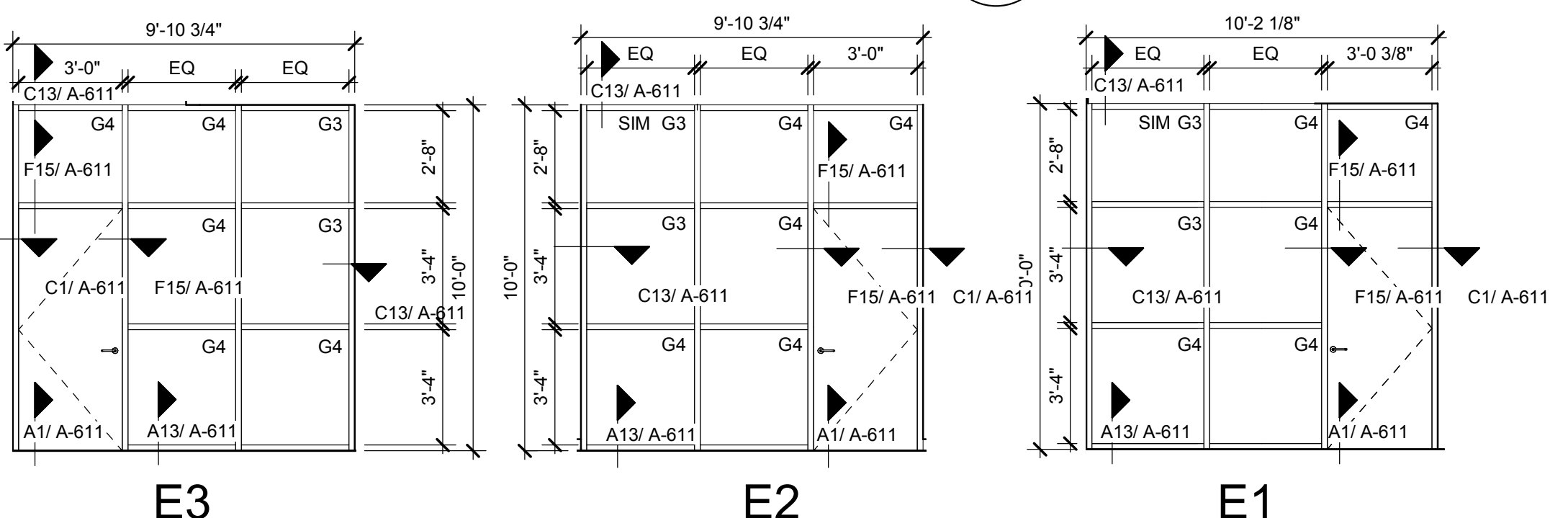


SF G - CORR to DINING
 1/4" = 1'-0" F1

SMOKE GUARD CURTAIN TO COVER THE WIDTH OF THE GLAZING IN STOREFRONT G1



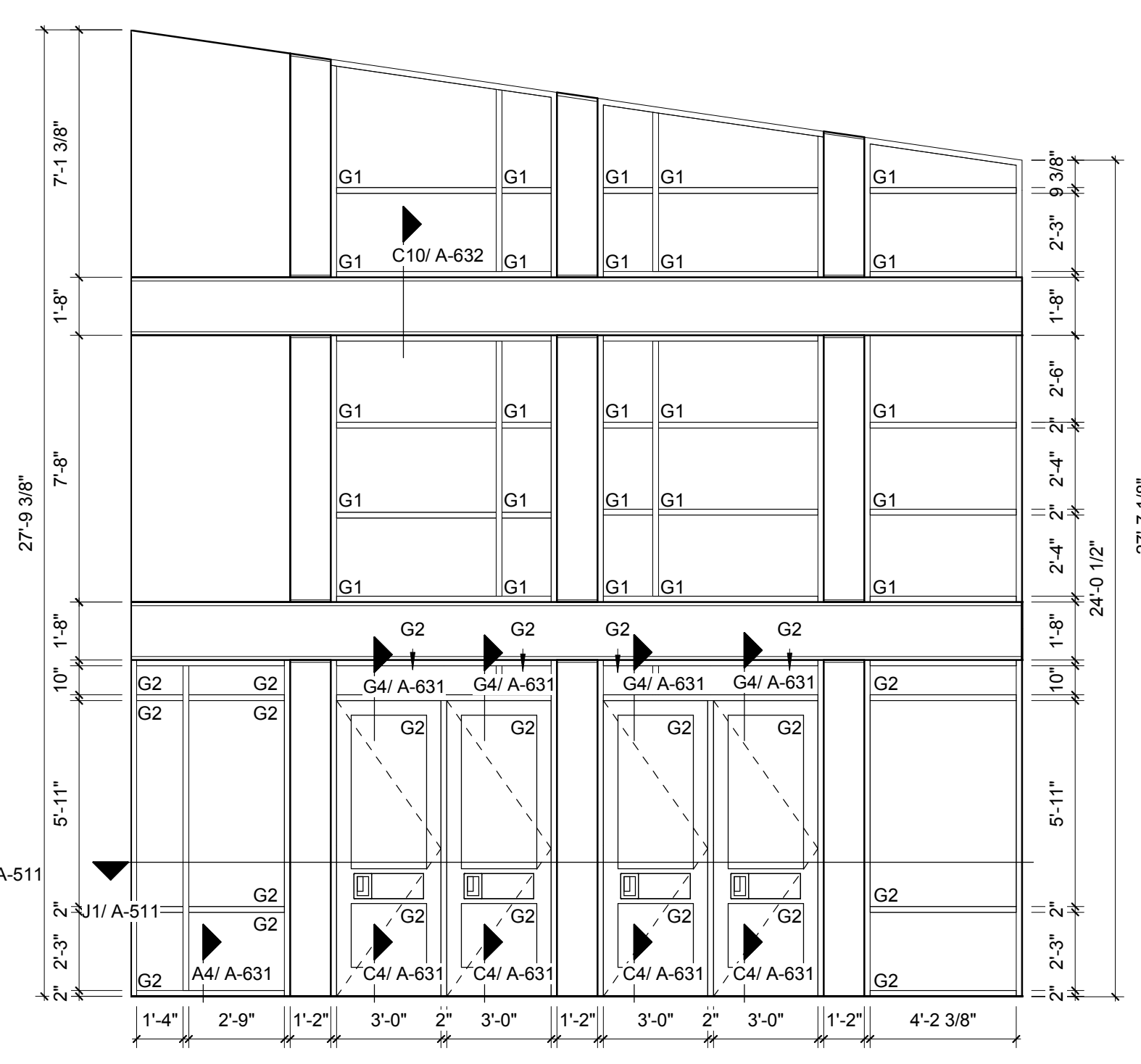
SF F - OFFICE
 1/4" = 1'-0" C15



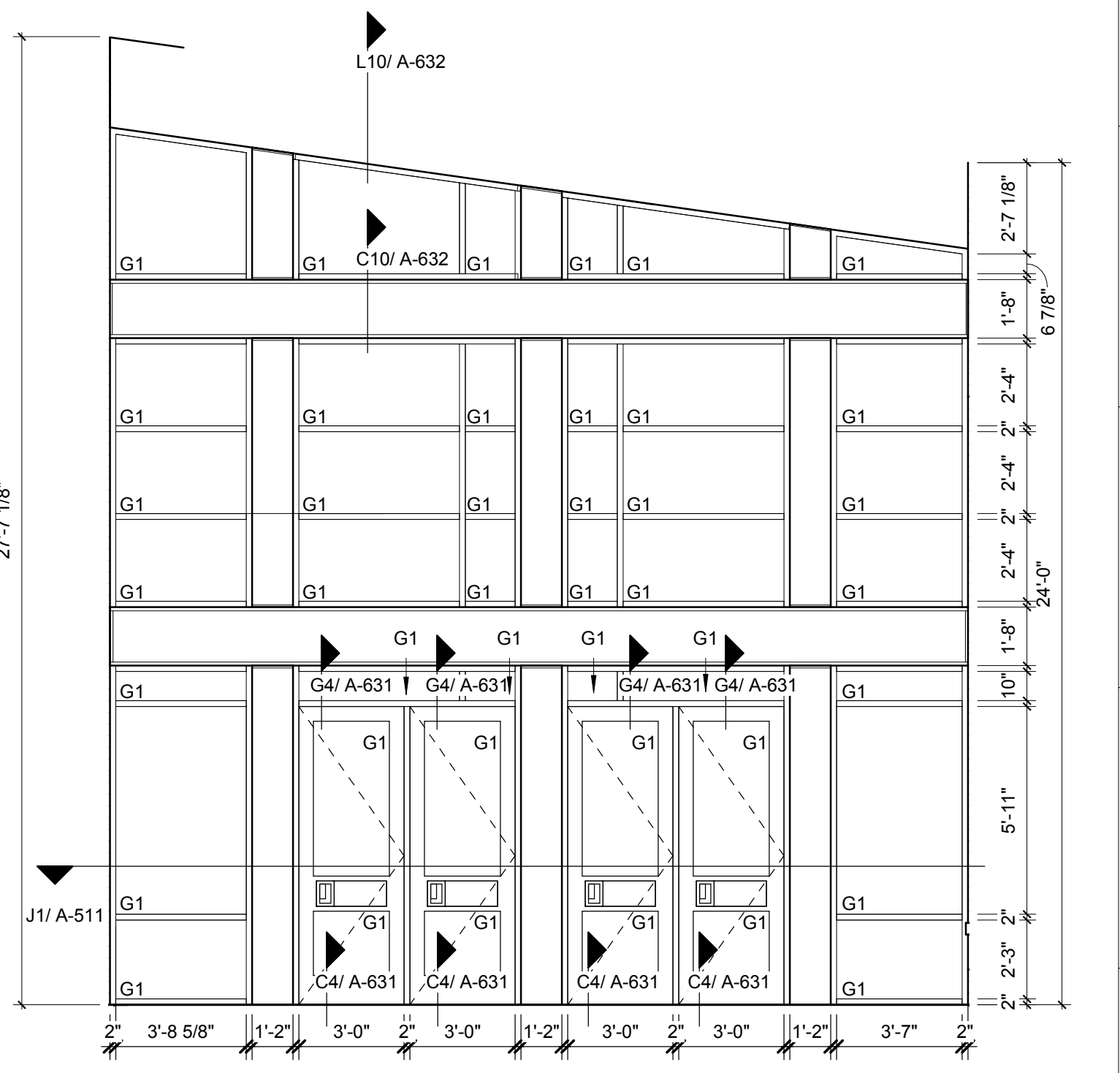
SF E - OFFICE
 1/4" = 1'-0" A13

SF D - ADMIN
 1/4" = 1'-0" A11

SF C - RECEPTION
 1/4" = 1'-0" A9



SF B - ENTRY VESTIBULE, INT.
 1/4" = 1'-0" A5

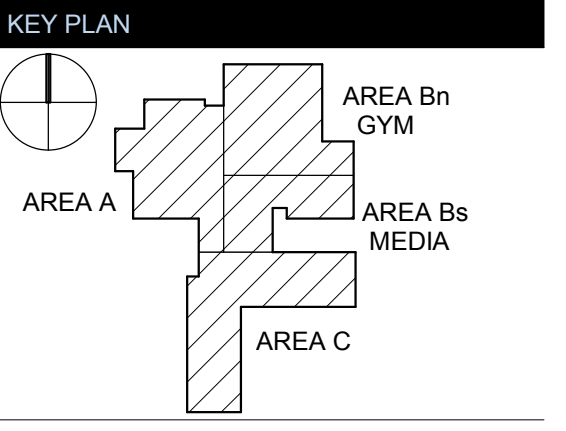


SF A - ENTRY VESTIBULE, EXT.
 1/4" = 1'-0" A1



TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

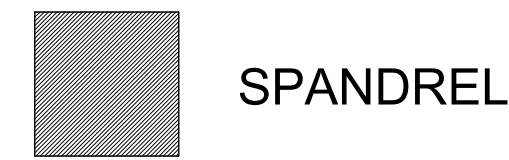
ISSUED: CONSTRUCTION DOCUMENTS
 DATE: 05/24/2018
 SCALE: As indicated
 SHEET NAME: GLAZING SCHEDULE

SHEET NUMBER:
A-621

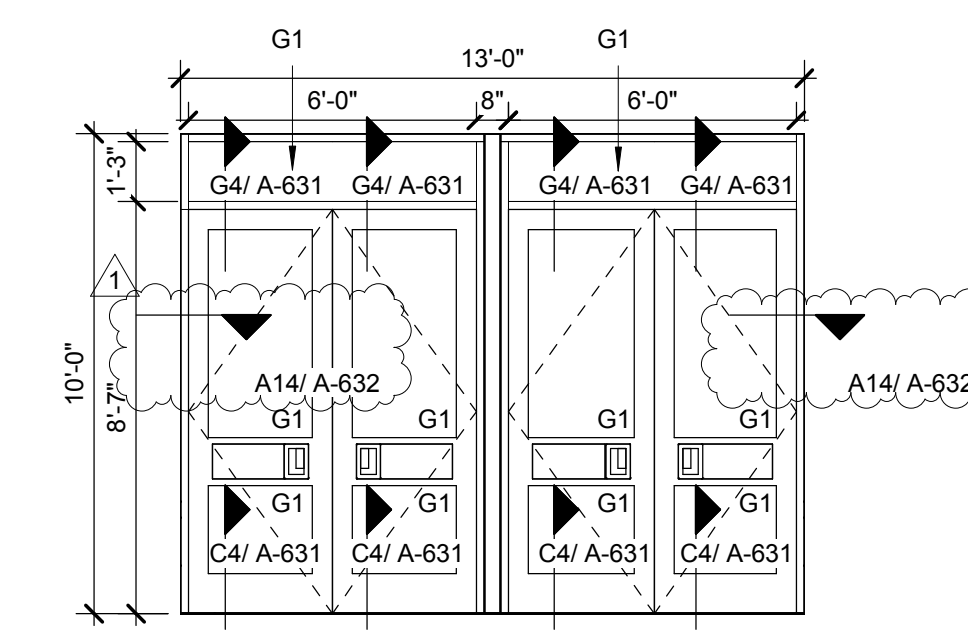
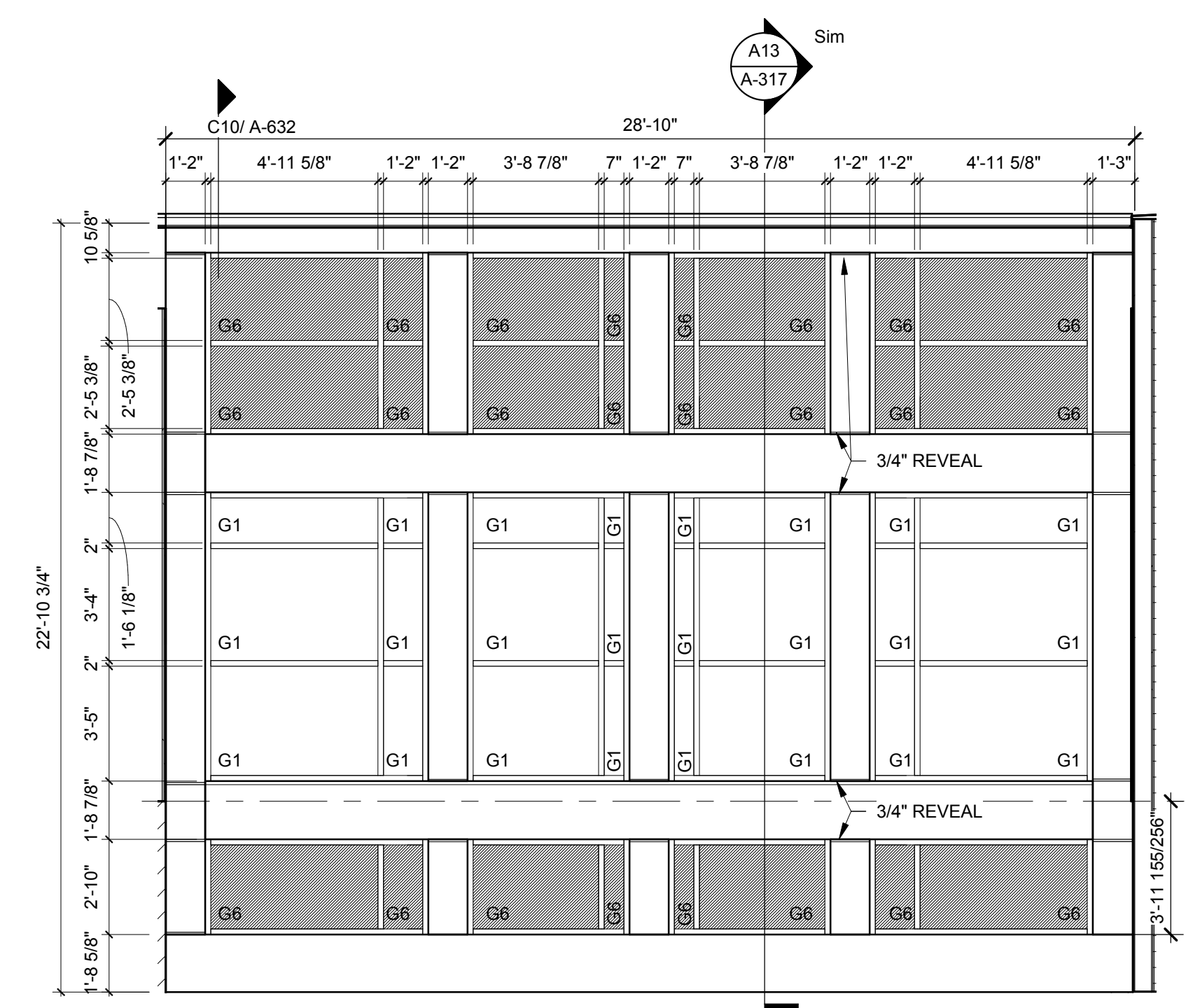
GLASS TYPES

- G1 - 1" INSULATING, BOTH PANES TEMPERED
- G2 - 1" INSULATING, LAMINATED
- G3 - 1/4" INSULATING, NON-TEMPERED
- G4 - 1/4" CLEAR TEMPERED GLASS
- G5 - 1/4" CLEAR SAFETY WIRE GLASS
- G6 - 1" INSULATING W/ SPANDREL, BOTH PANES TEMPERED

WINDOW LEGEND

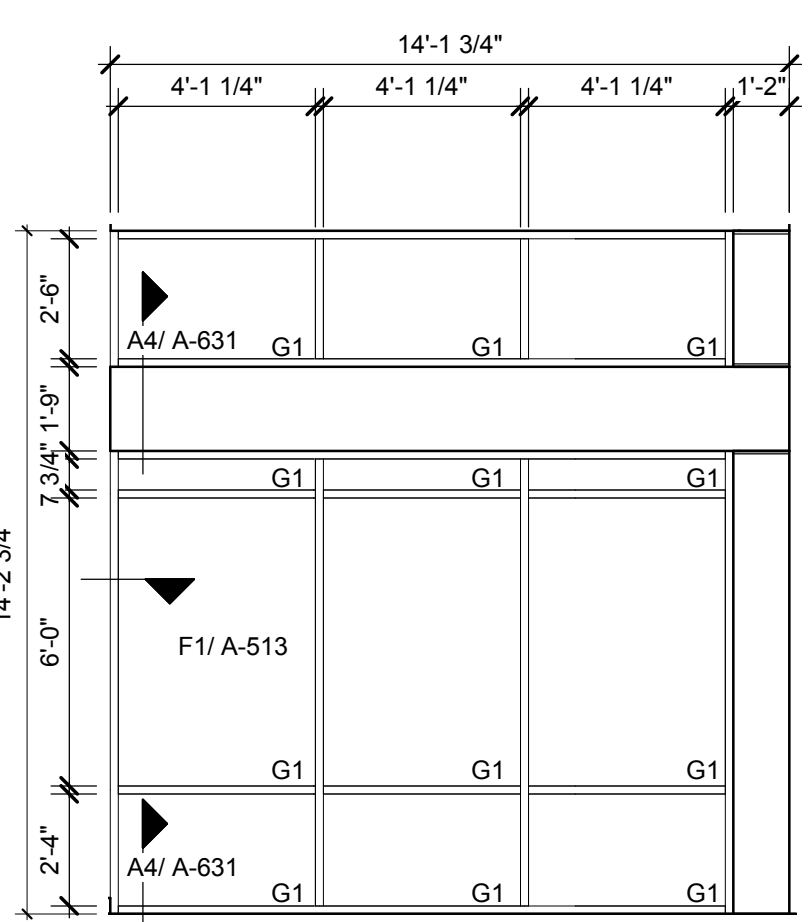


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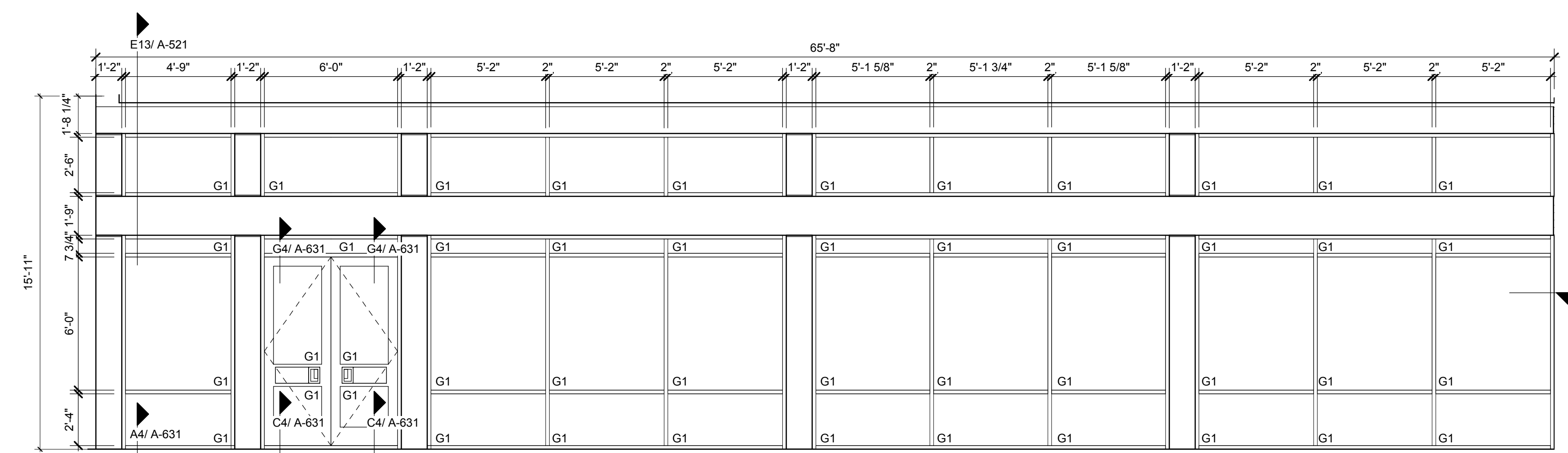


SF Y - RESOURCE ROOM
 1/4" = 1'-0" J4

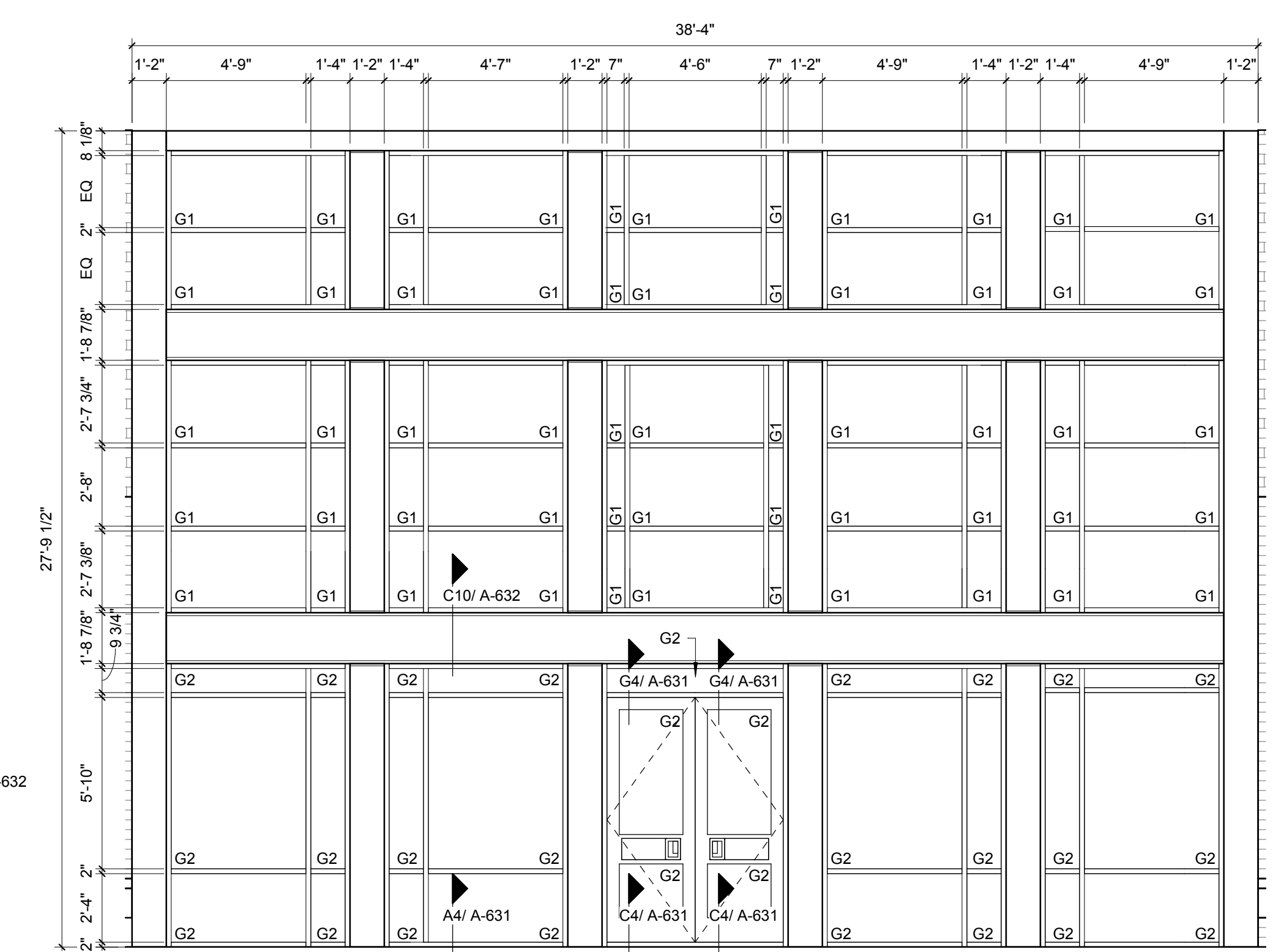
SF W COMMUNITY STAIR
 1/4" = 1'-0" J1



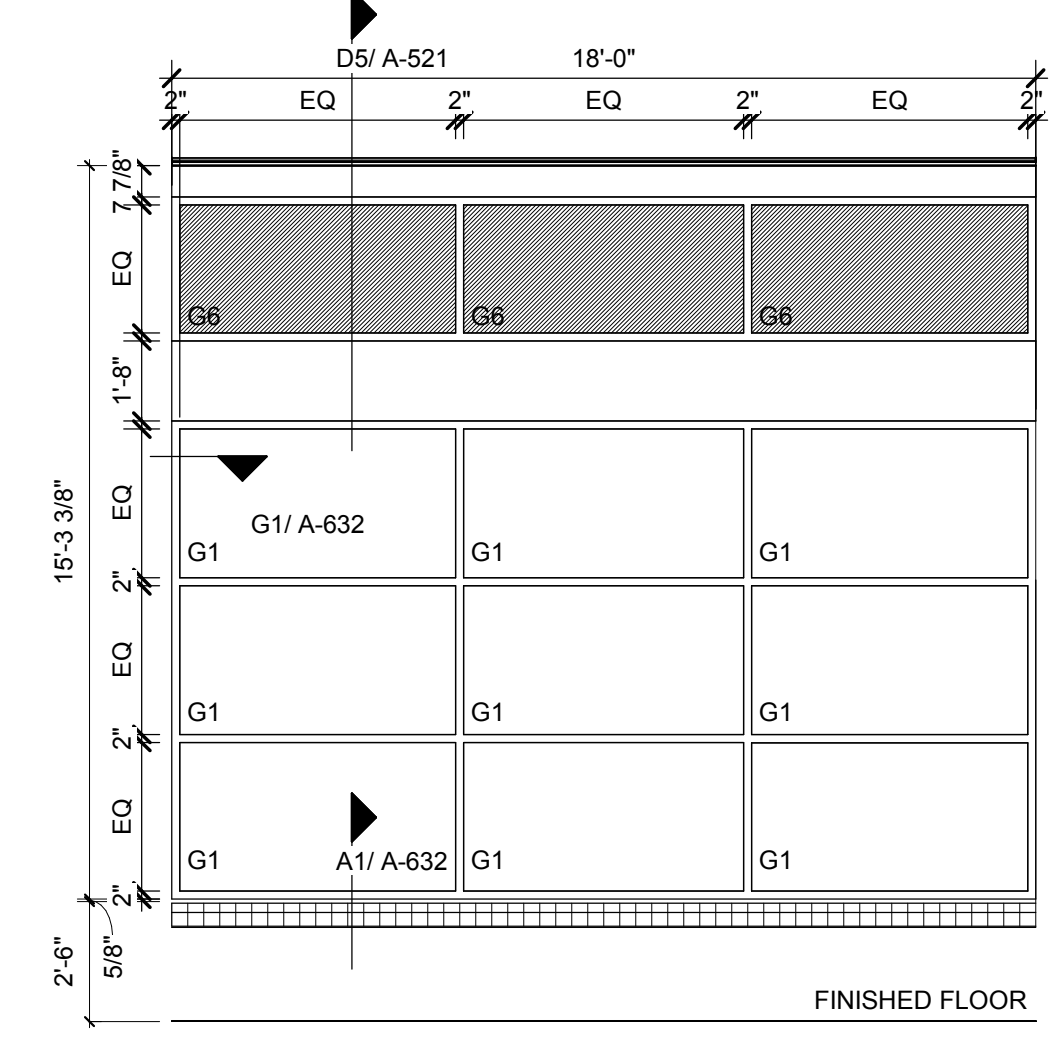
SF V - DINING, W. SIDE
 1/4" = 1'-0" D16



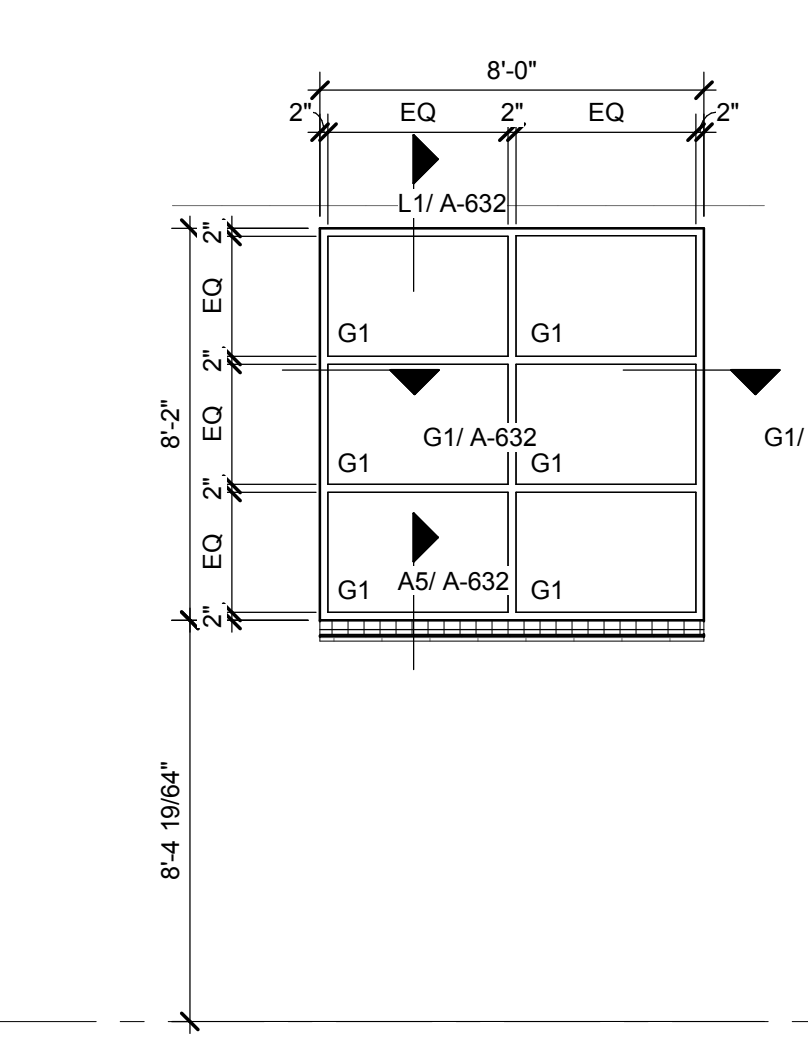
SF U - DINING, SOUTH SIDE
 1/4" = 1'-0" D7



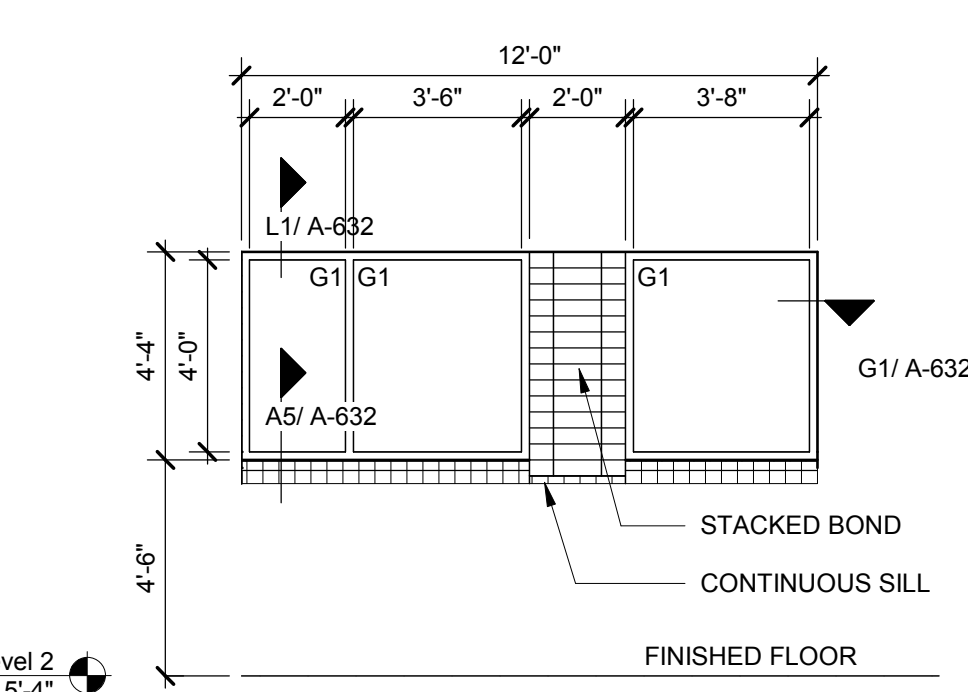
SF T - WEST ENTRY
 1/4" = 1'-0" D1



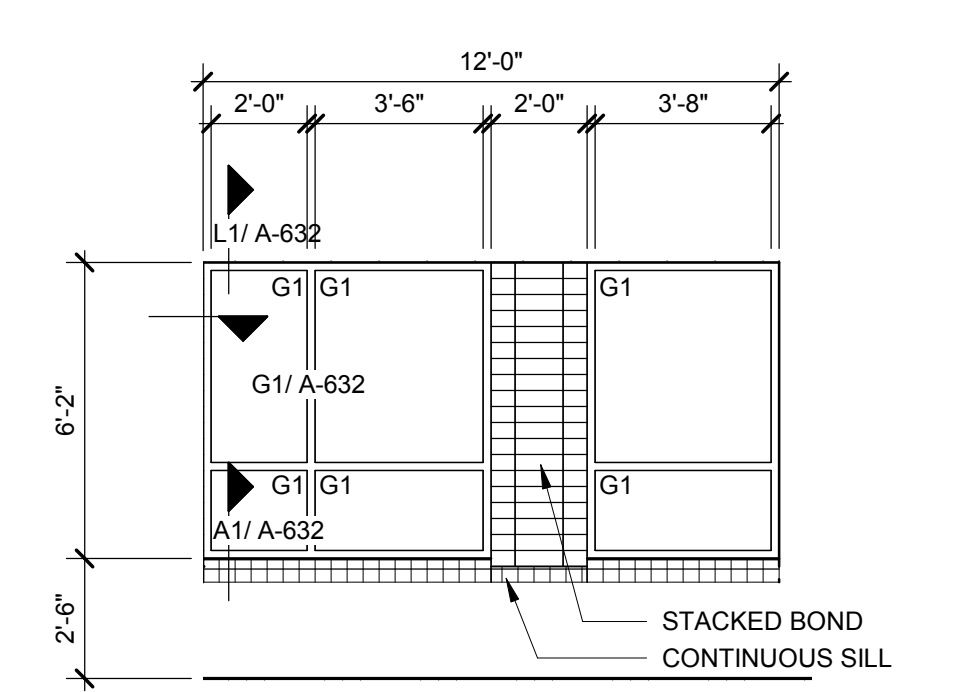
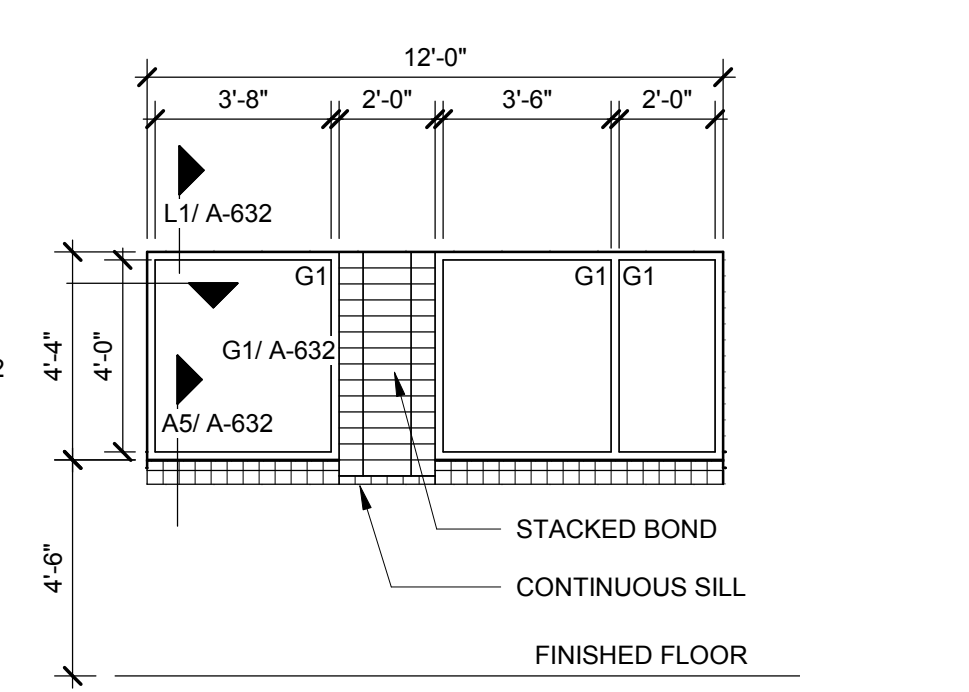
SF S - MUSIC, ART
 1/4" = 1'-0" A16



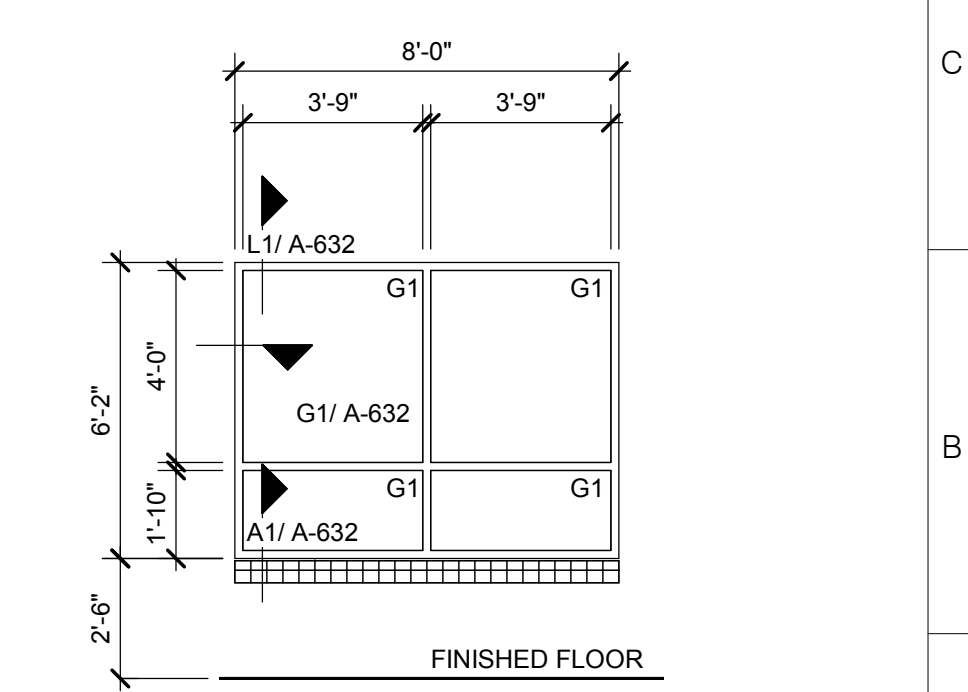
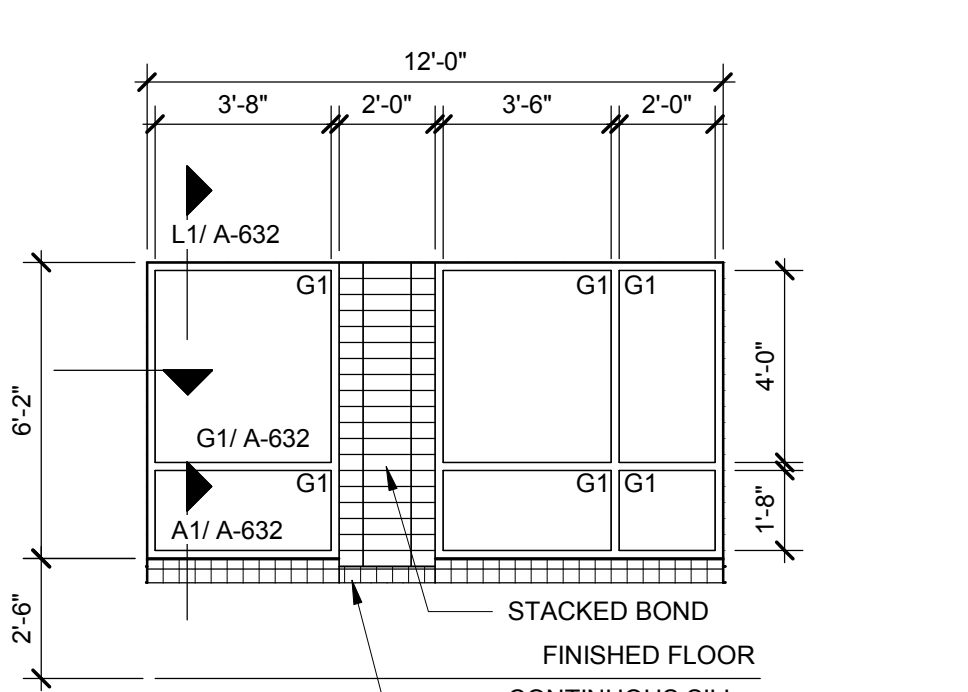
SF R - CLASS 2807
 1/4" = 1'-0" A13



SF Q - LABS
 1/4" = 1'-0" A9



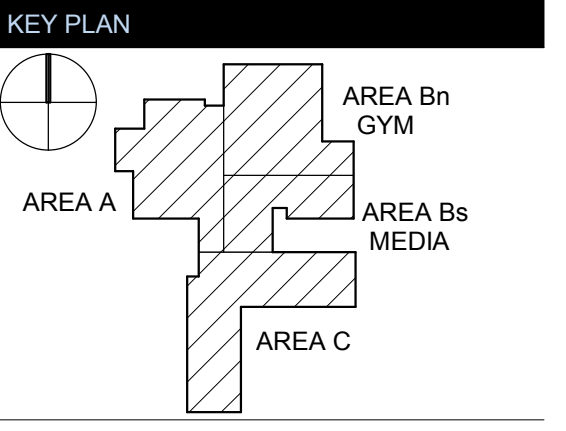
SF P - CLASS WING
 1/4" = 1'-0" A3



SF N - CLASS WING
 1/4" = 1'-0" A1



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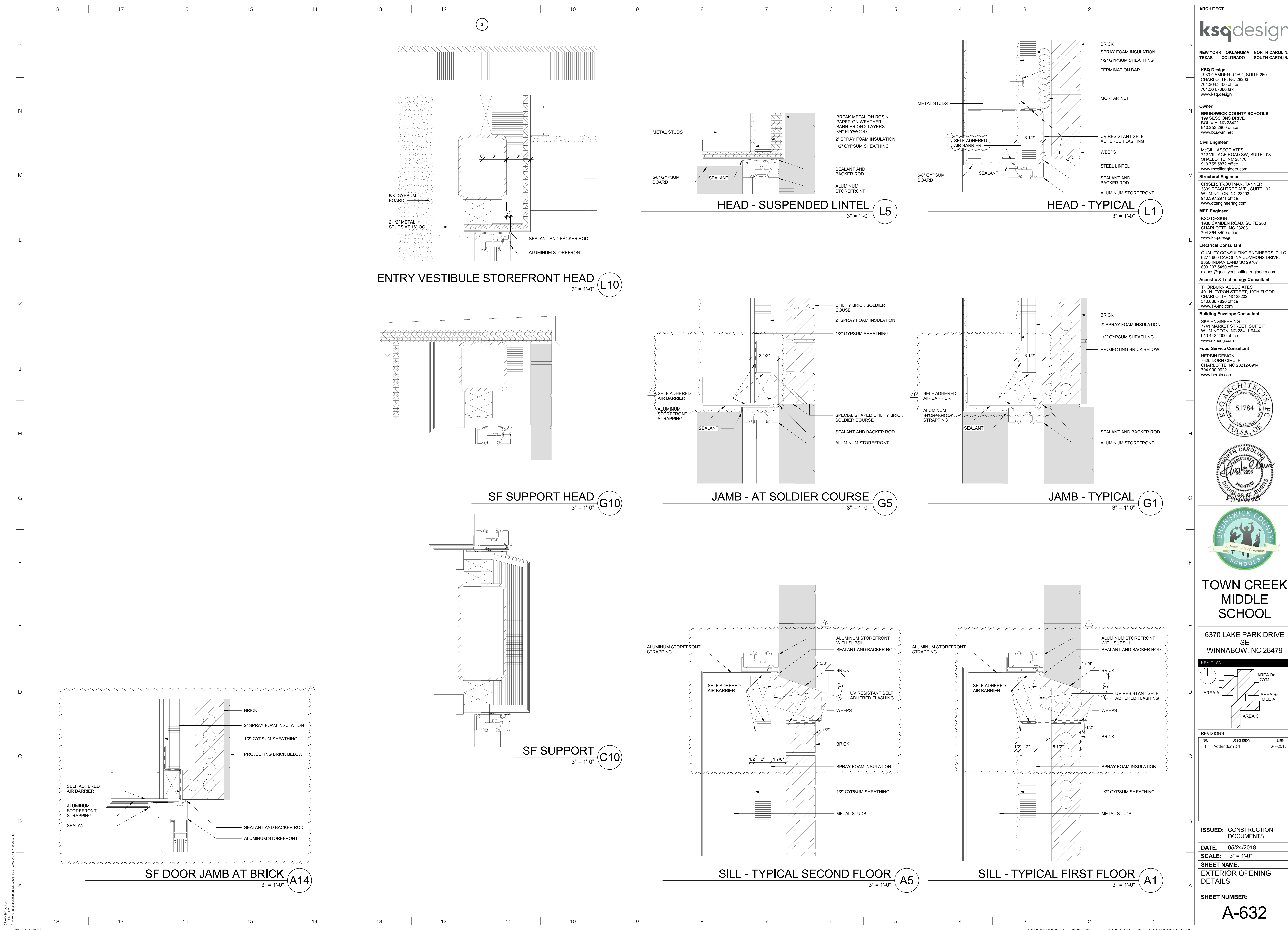


REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: GLAZING SCHEDULE

SHEET NUMBER:
A-622



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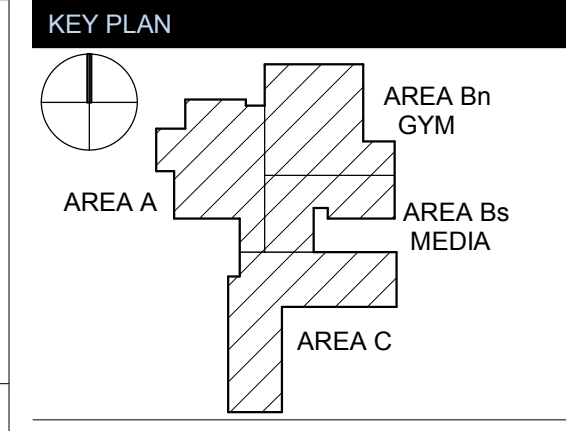
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 3" = 1'-0"
SHEET NAME: EXTERIOR OPENING DETAILS

SHEET NUMBER:
A-632

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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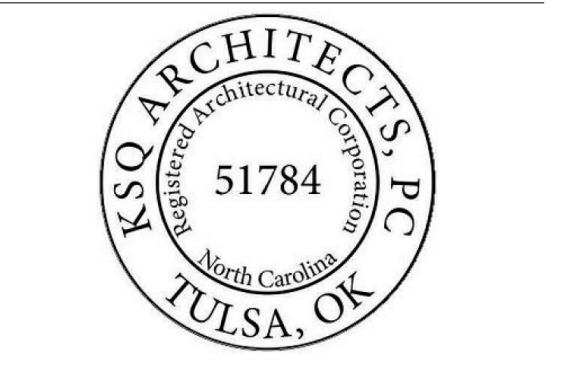
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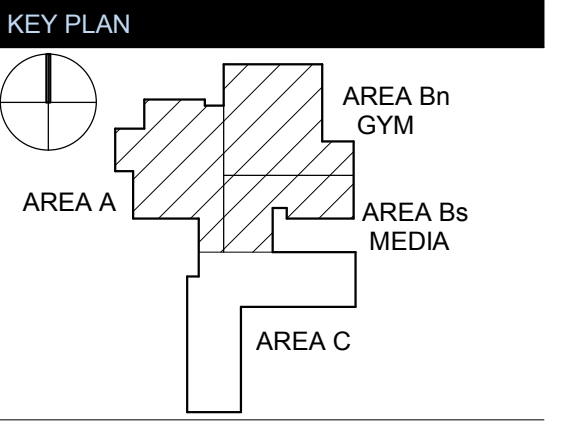
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TOWN CREEK MIDDLE SCHOOL

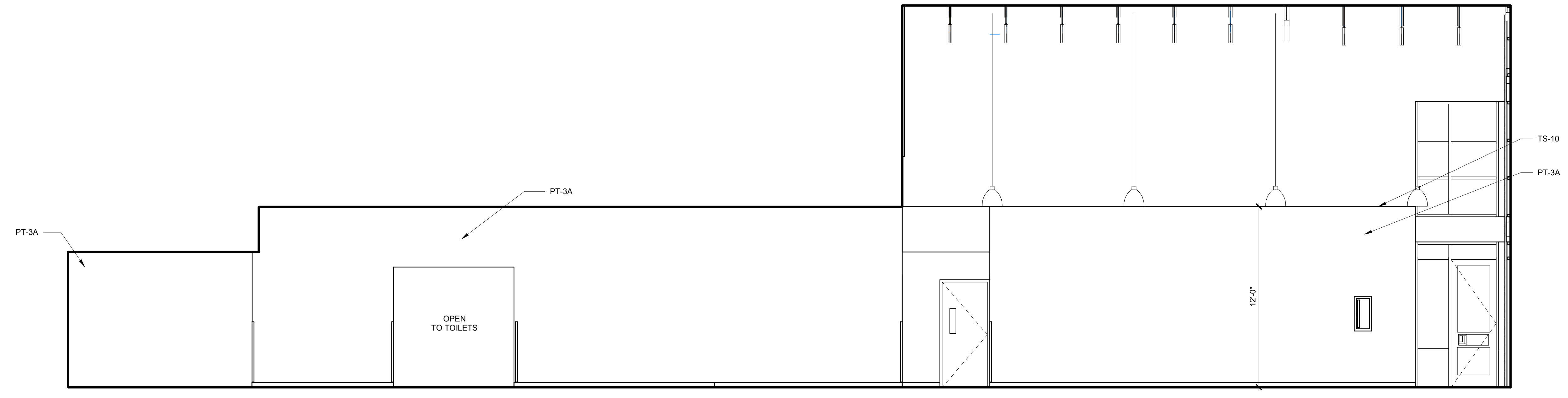
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WINNABOW, NC 28479



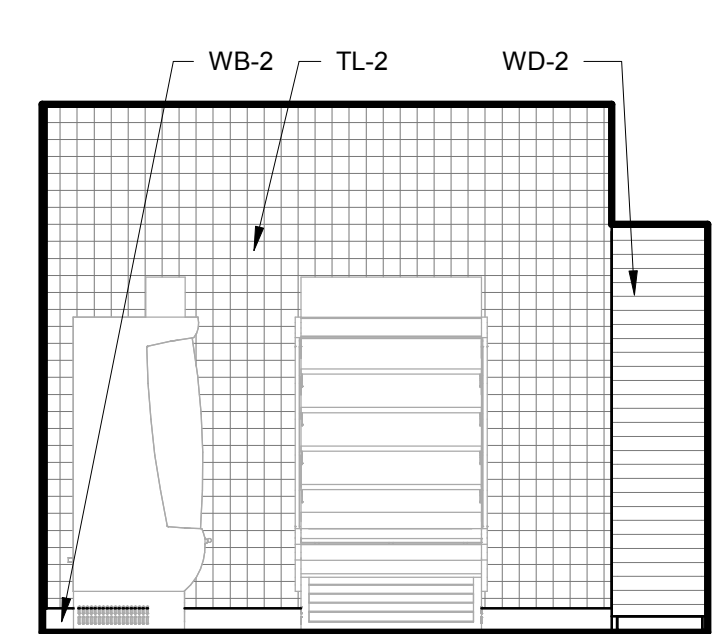
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No.	Description	Date
1	Addendum #1	6-7-2018

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SHEET NUMBER:

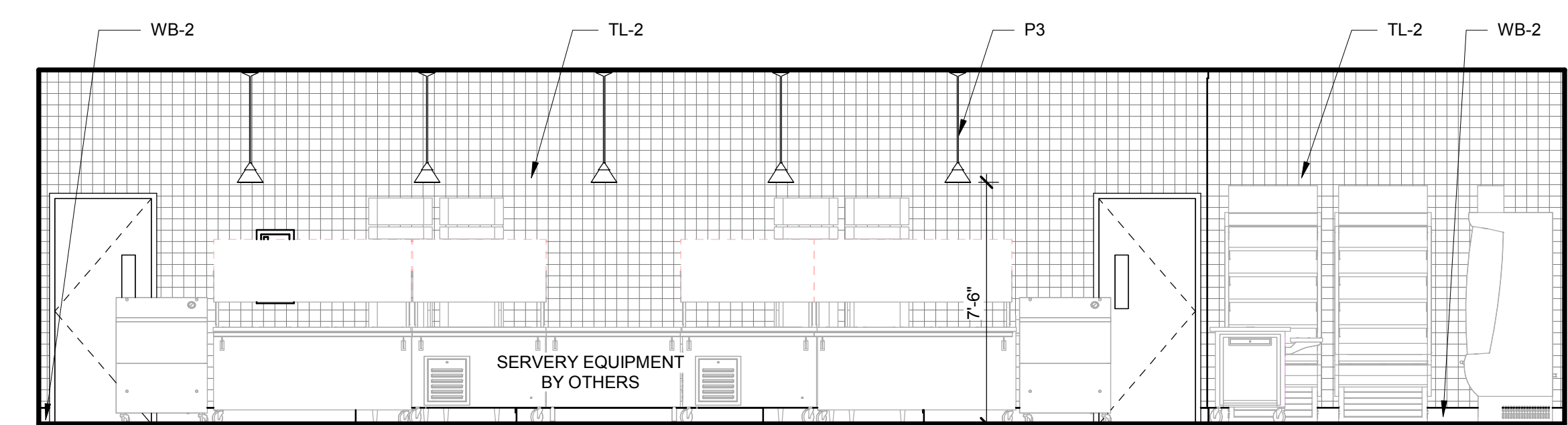
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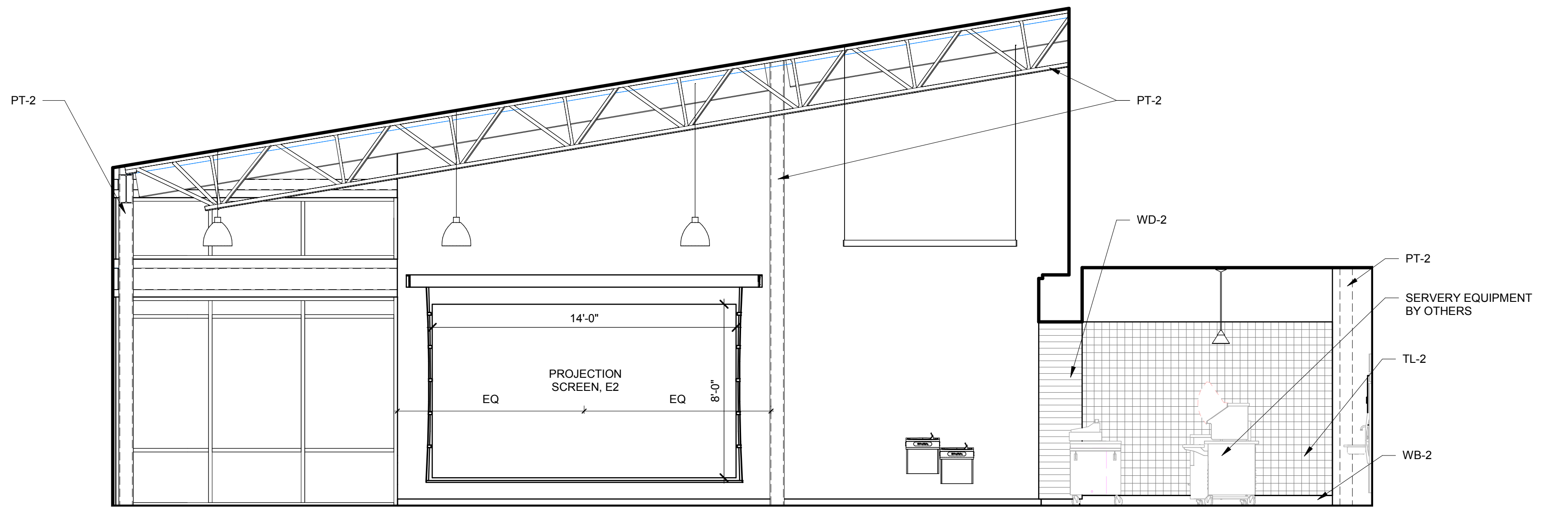
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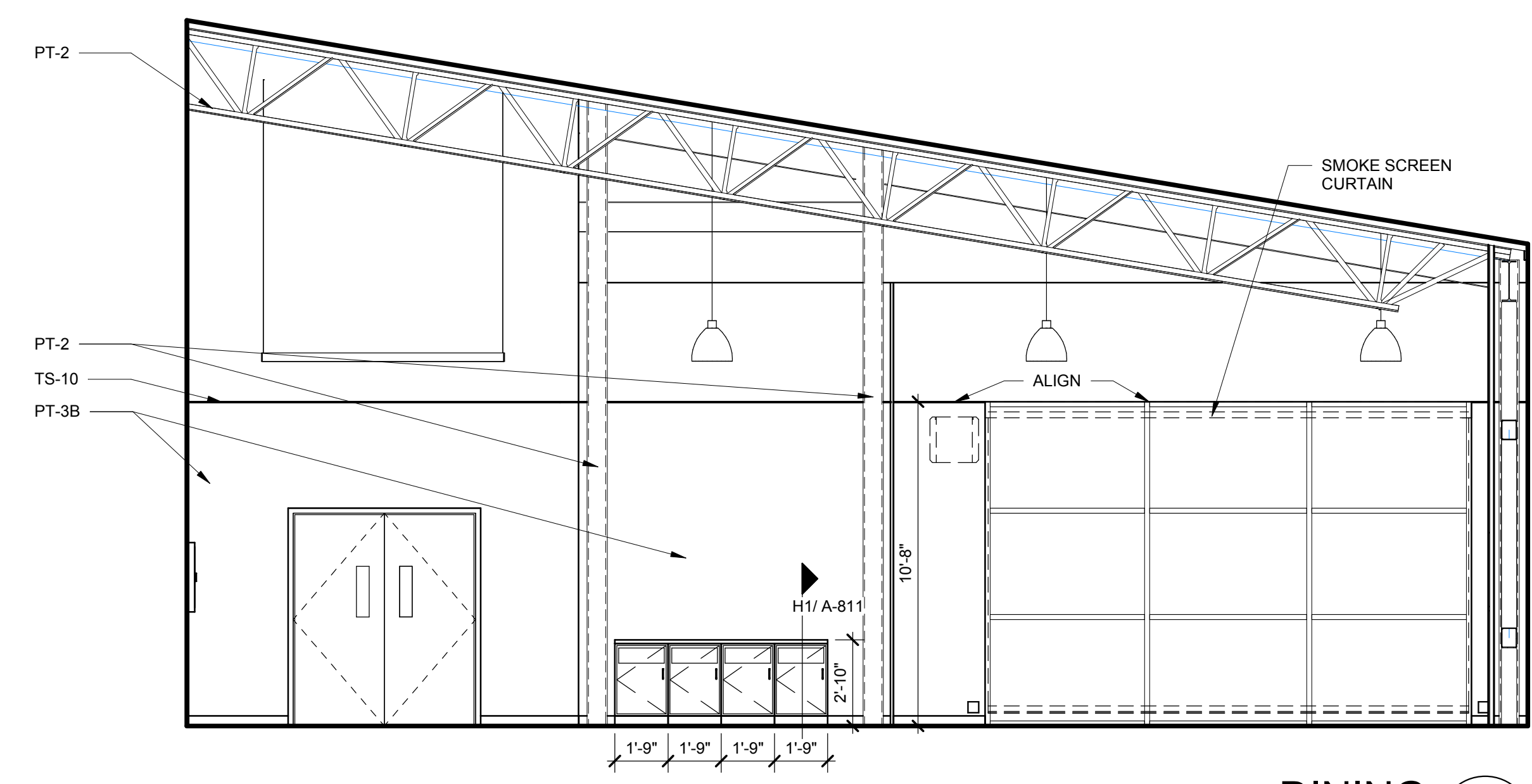
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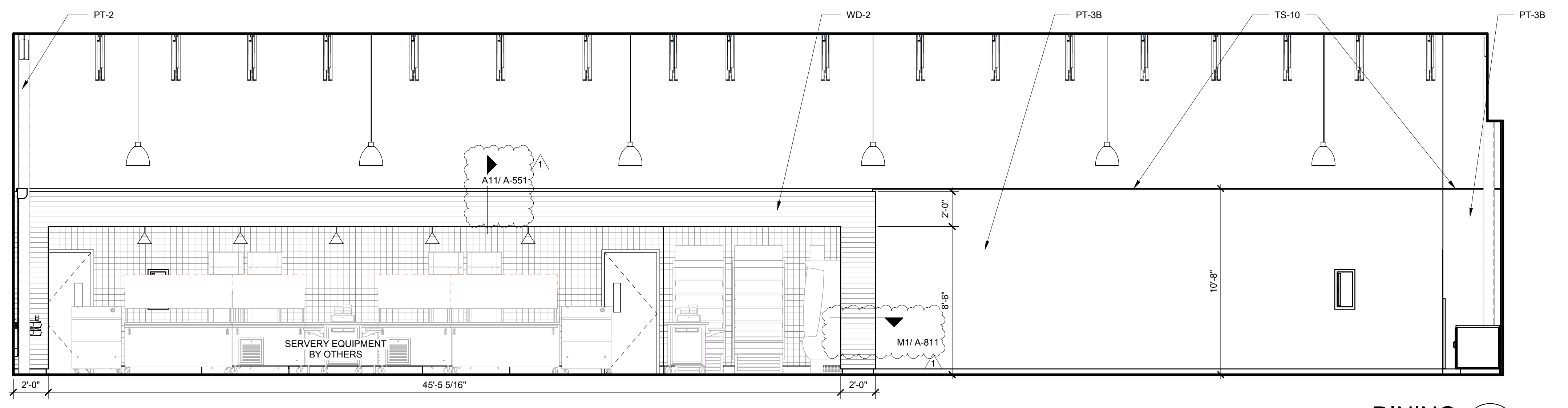
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1/4" = 1'-0"



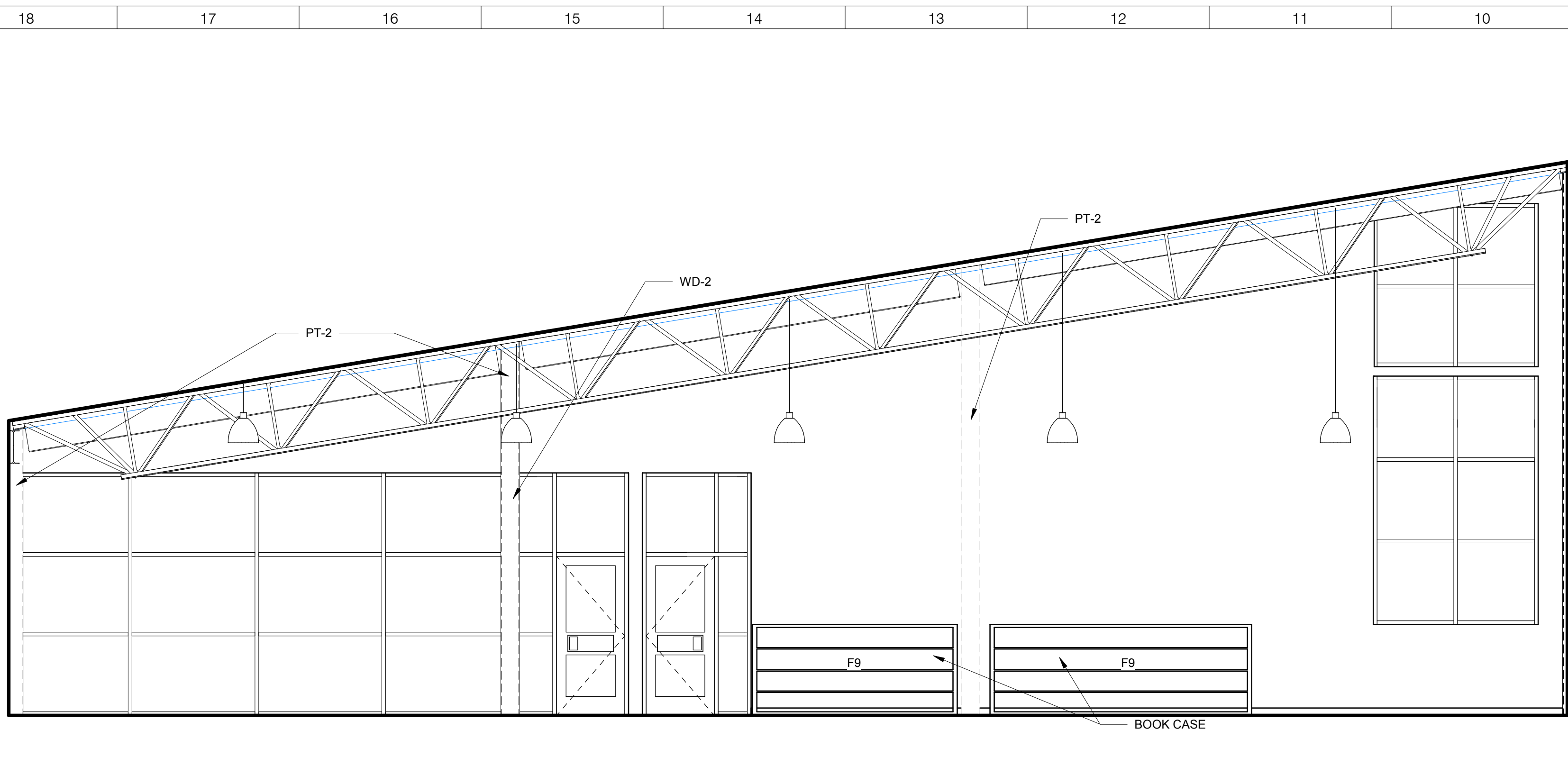
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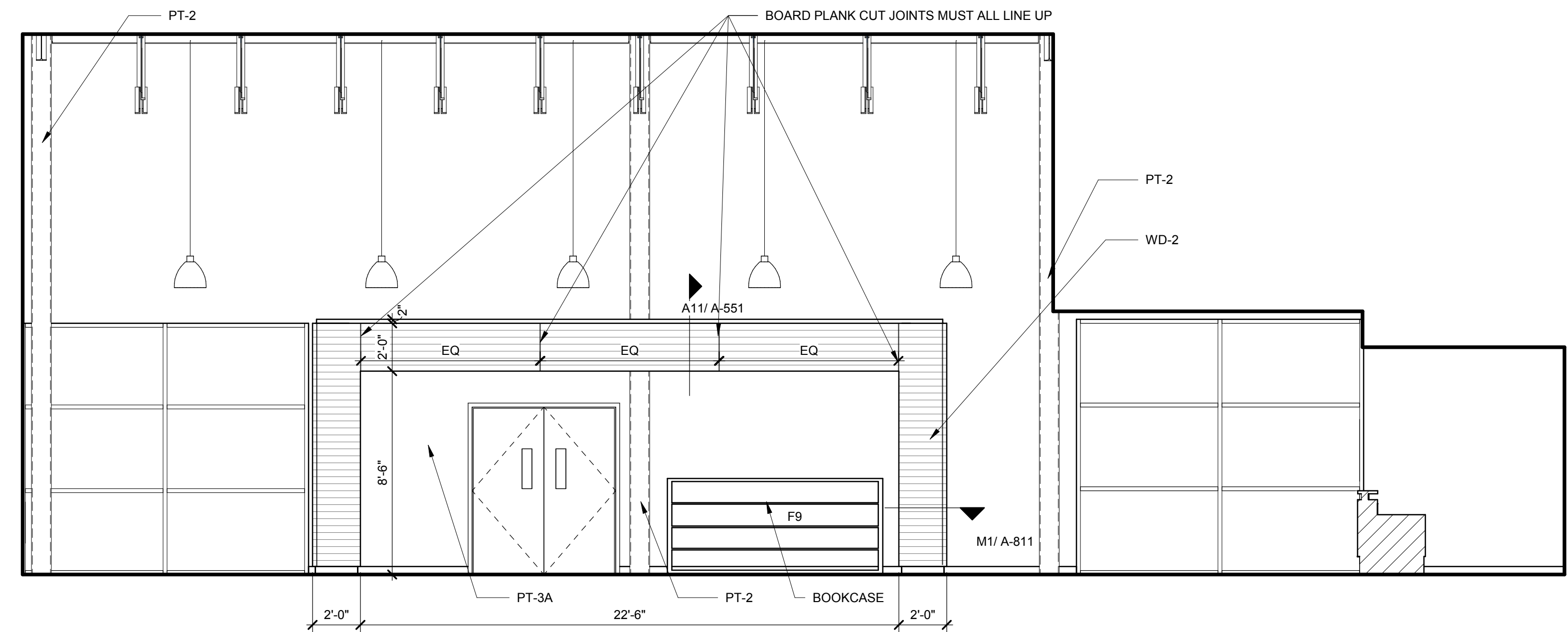
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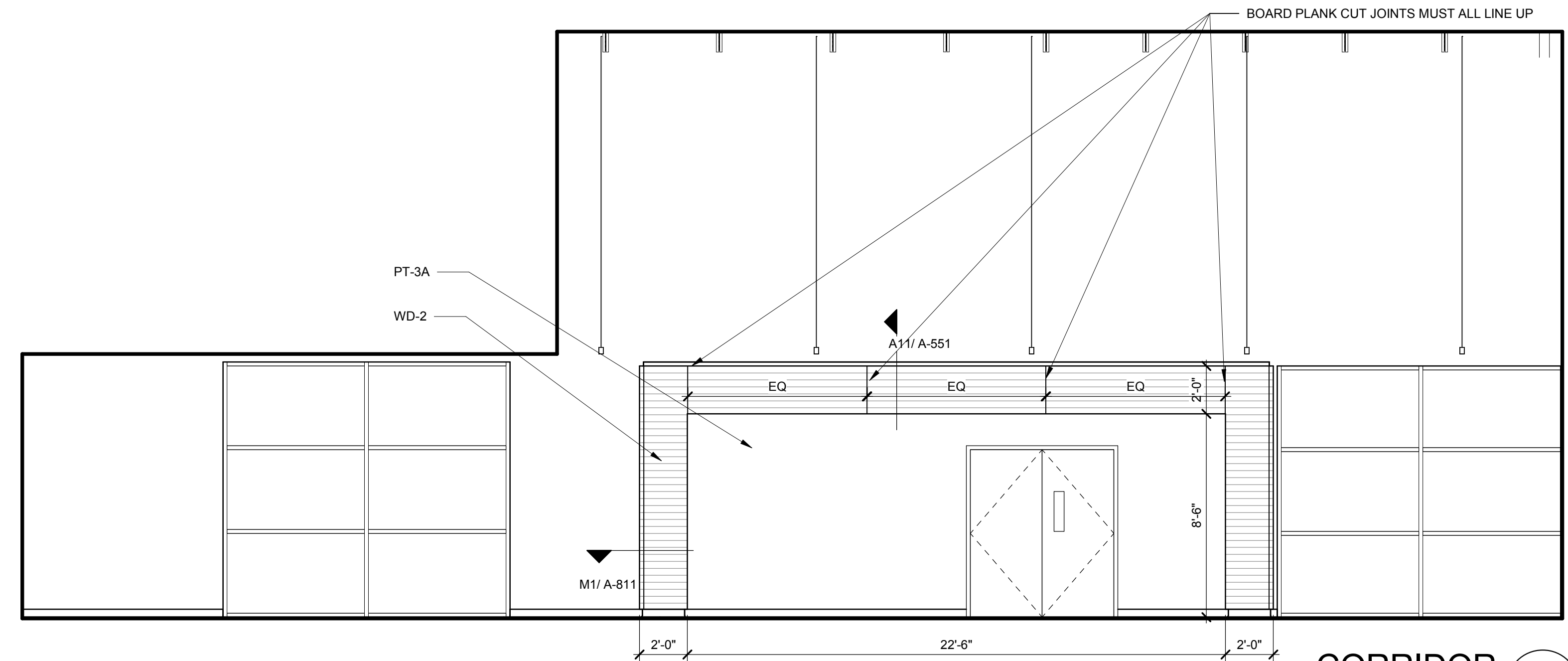
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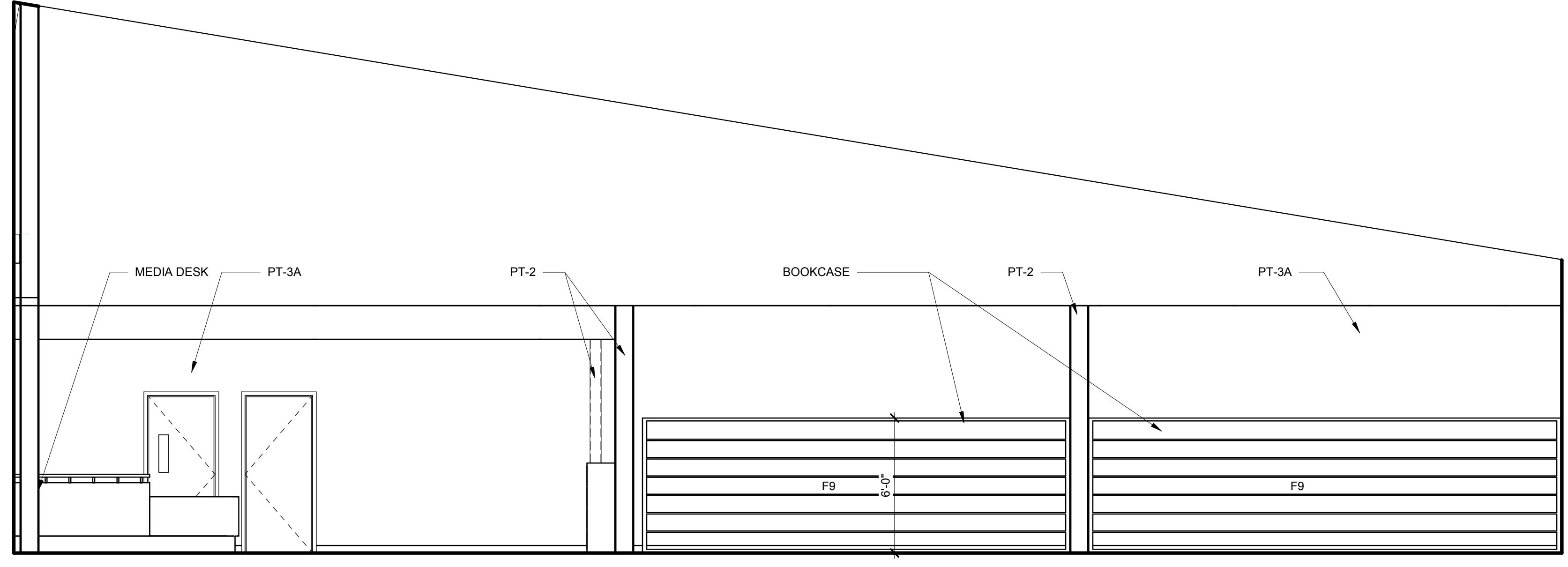
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1/4" = 1'-0"



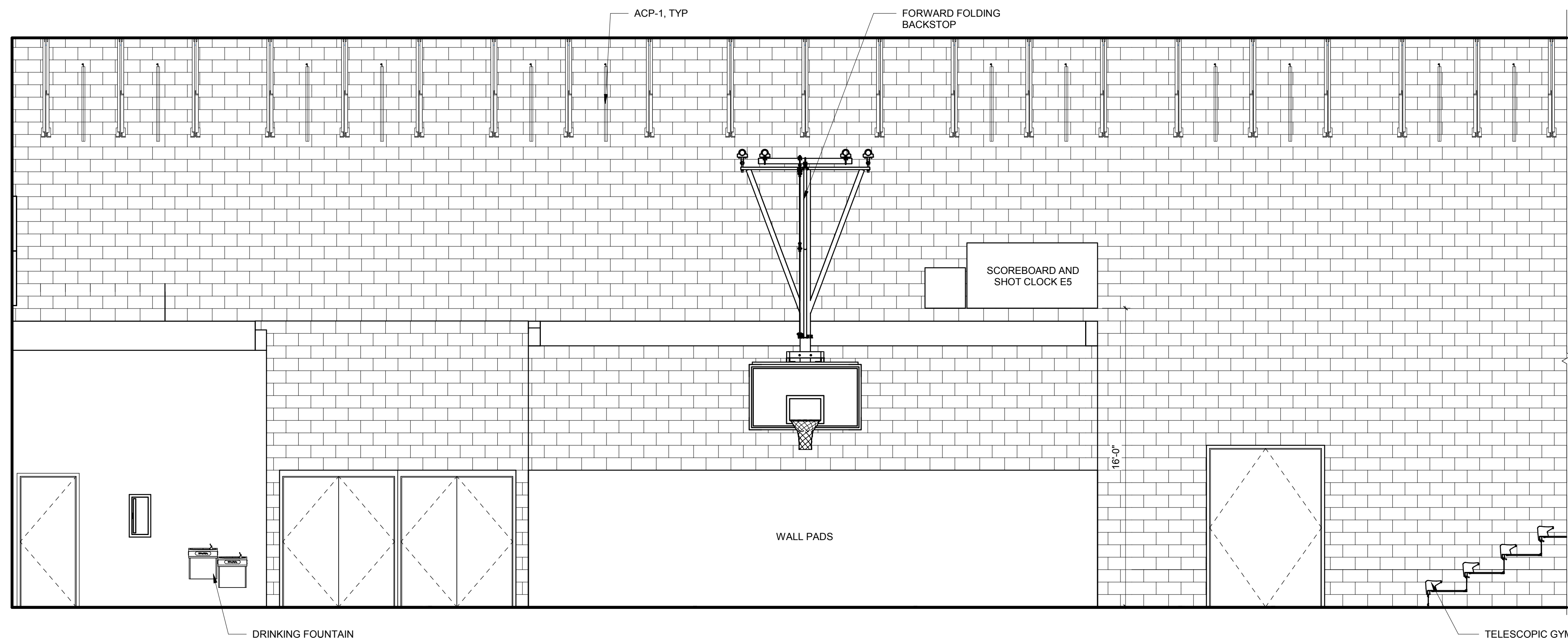
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1/4" = 1'-0"



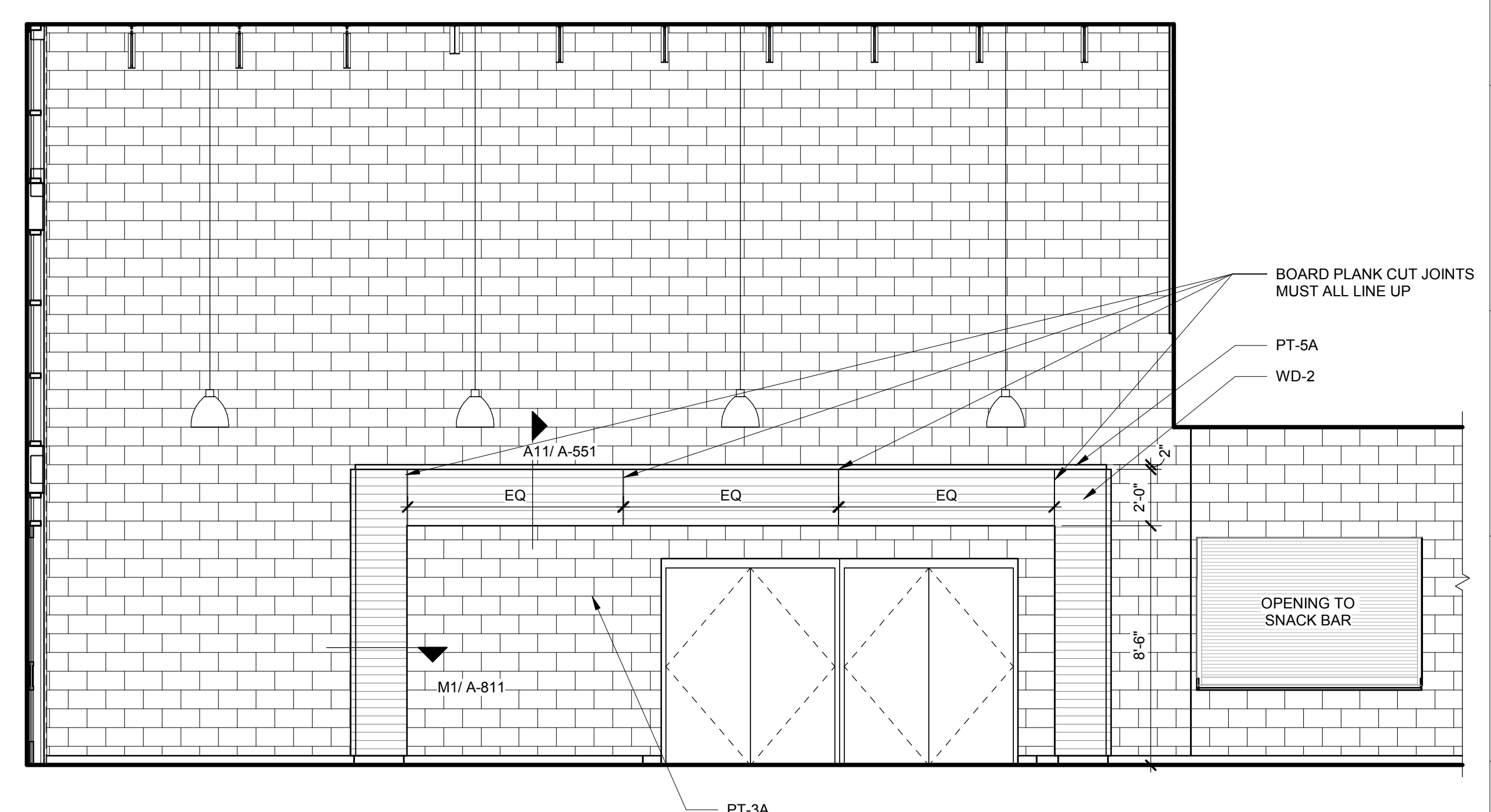
CORRIDOR E10
1/4" = 1'-0"



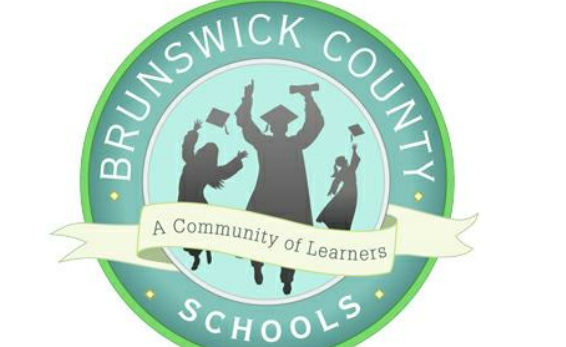
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1/4" = 1'-0"



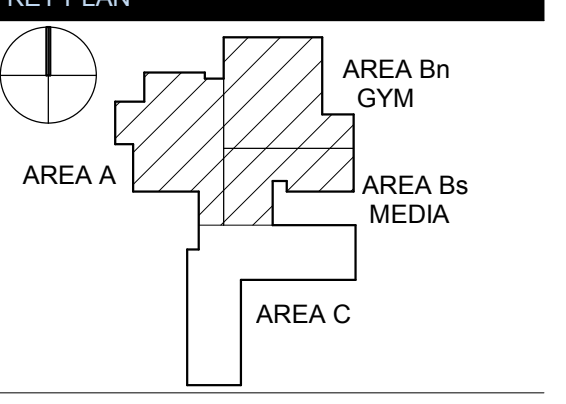
GYM WEST A8
1/4" = 1'-0"



COMMONS CORRIDOR A1
1/4" = 1'-0"



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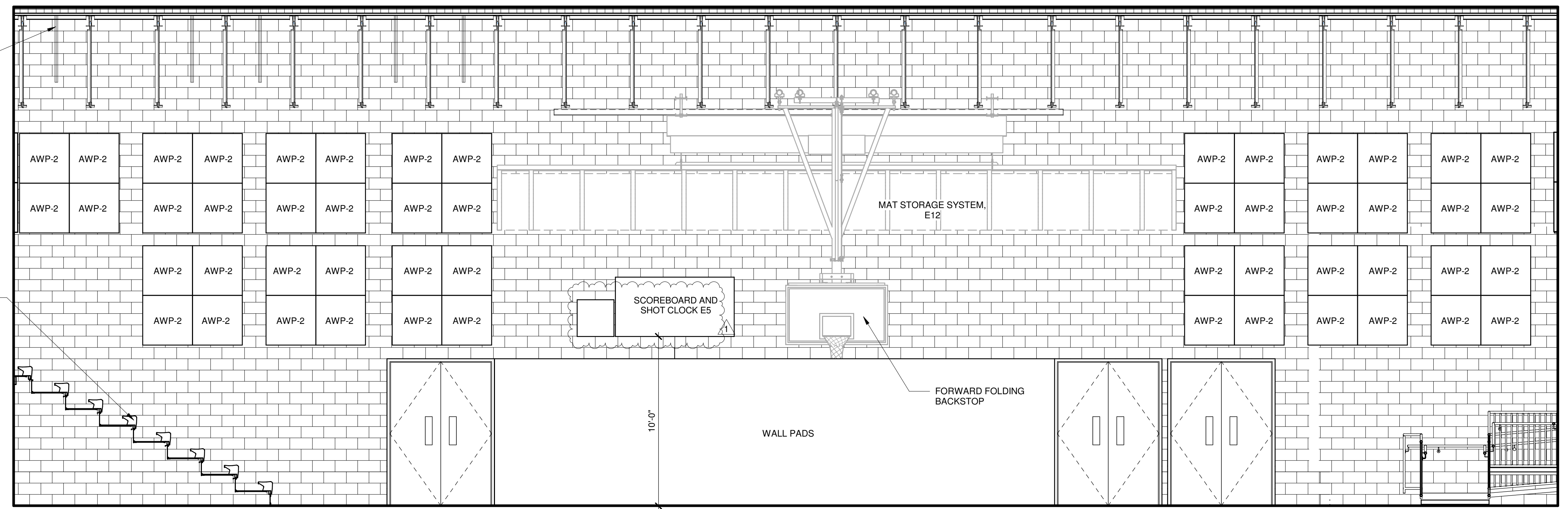


REVISIONS		
No.	Description	Date
1	ADDENDUM #1	6-7-2018

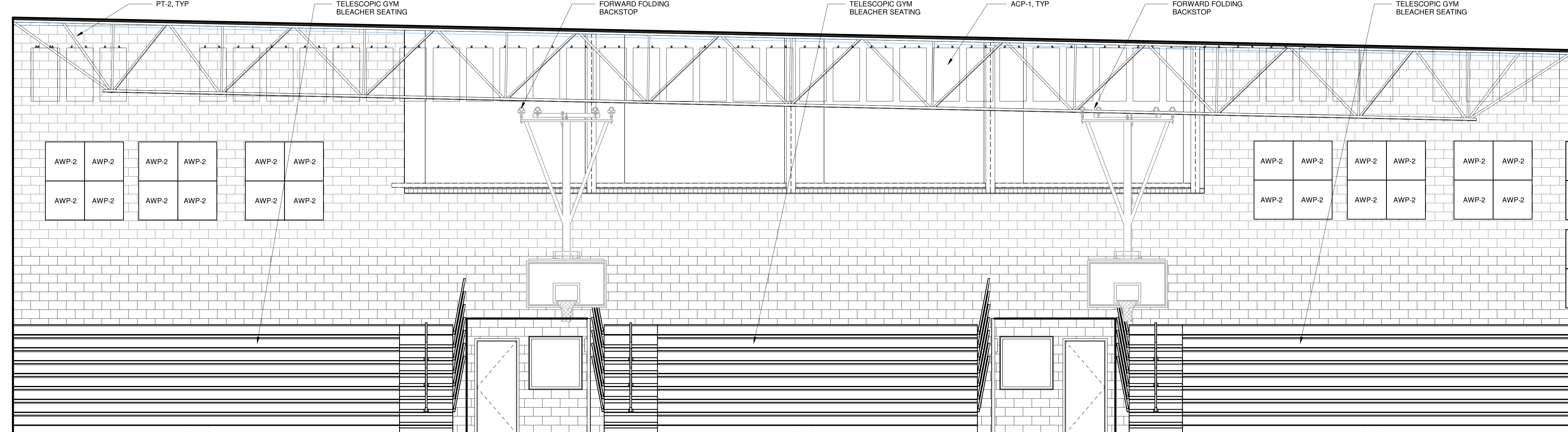
ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/4" = 1'-0"
SHEET NAME: INTERIOR ELEVATIONS
SHEET NUMBER:

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 COPYRIGHT © 2017 KSO ARCHITECTS, P.C.

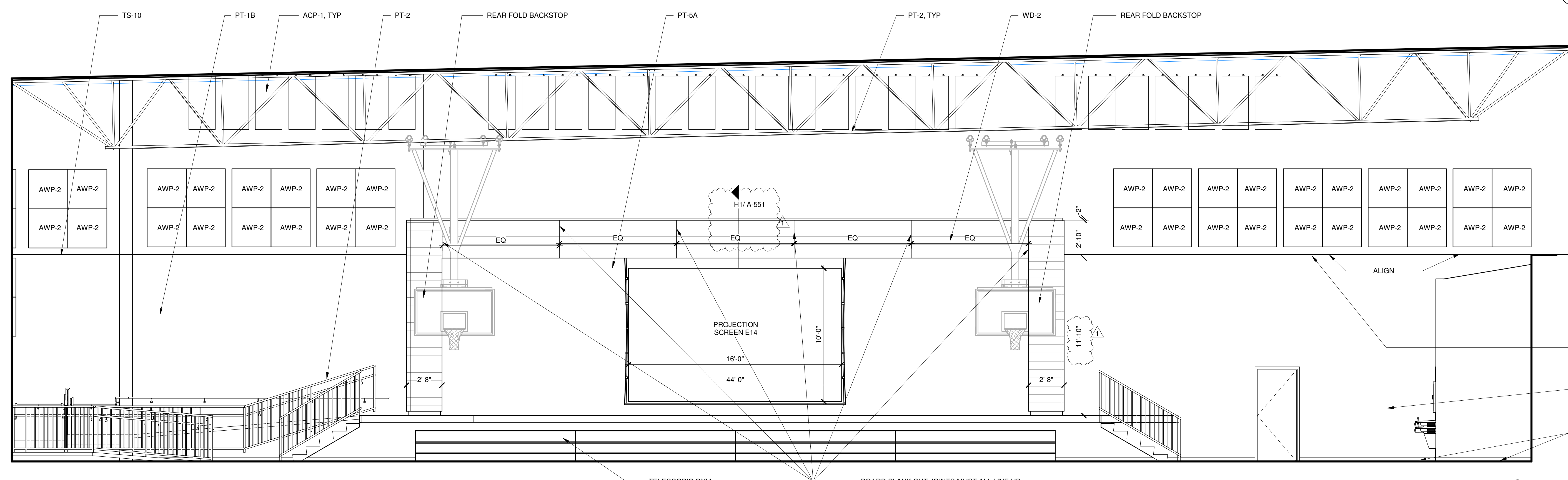
ARCHITECT
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GYM EAST
1/4" = 1'-0" L1



GYM
1/4" = 1'-0" F1

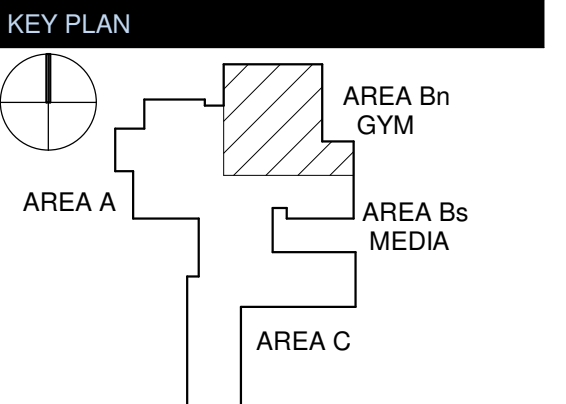


GYM
1/4" = 1'-0" A1



TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
WINNABOW, NC 28479



No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/4" = 1'-0"
SHEET NAME: INTERIOR ELEVATIONS
SHEET NUMBER:

A-806

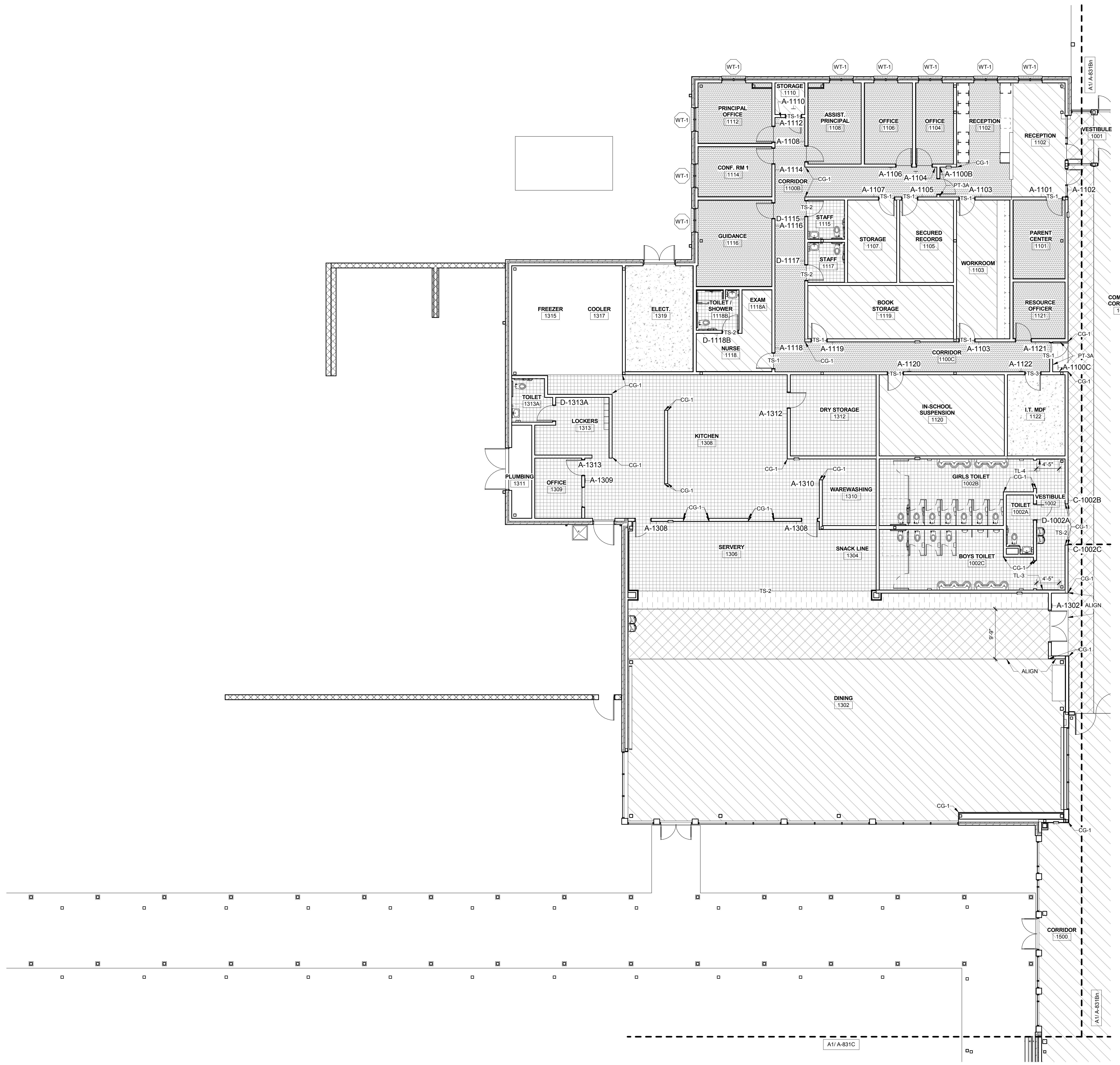
FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND

--- TACKSTRIP, TA-14
 A-1230 SIGN LOCATION REFER TO A-861

SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 1 - AREA A
 1/8" = 1'-0" **A1**

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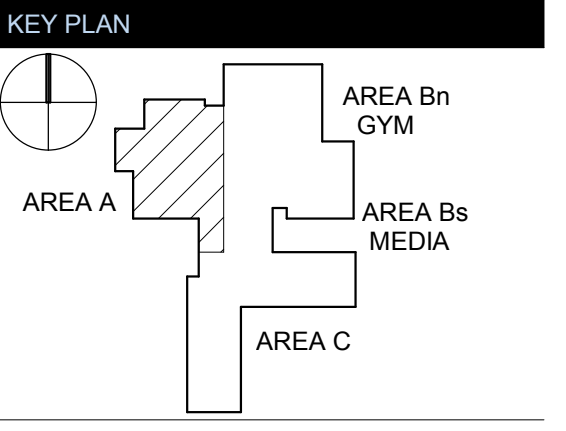
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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479



REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

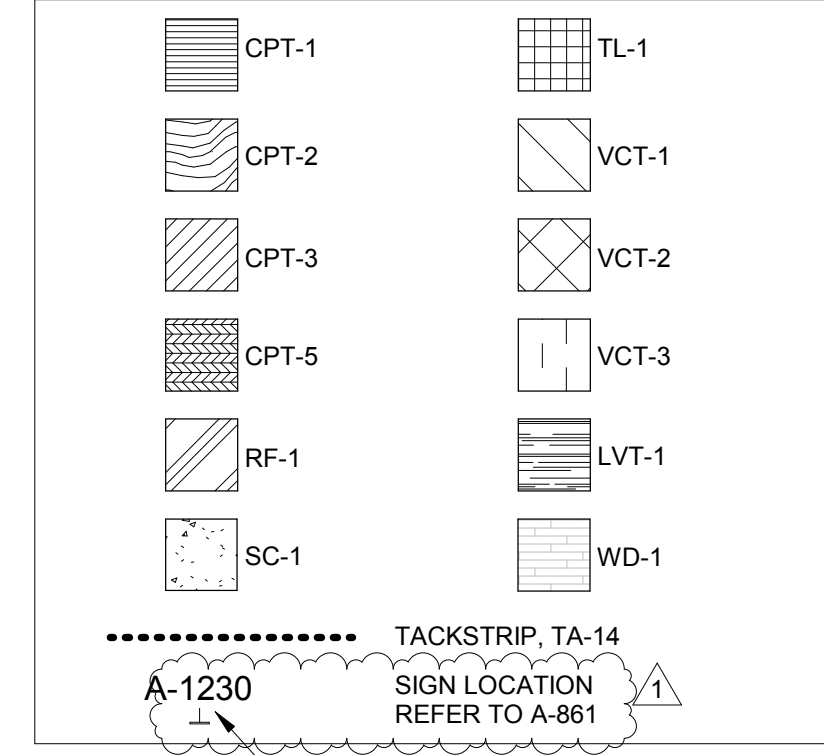
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SHEET NUMBER:

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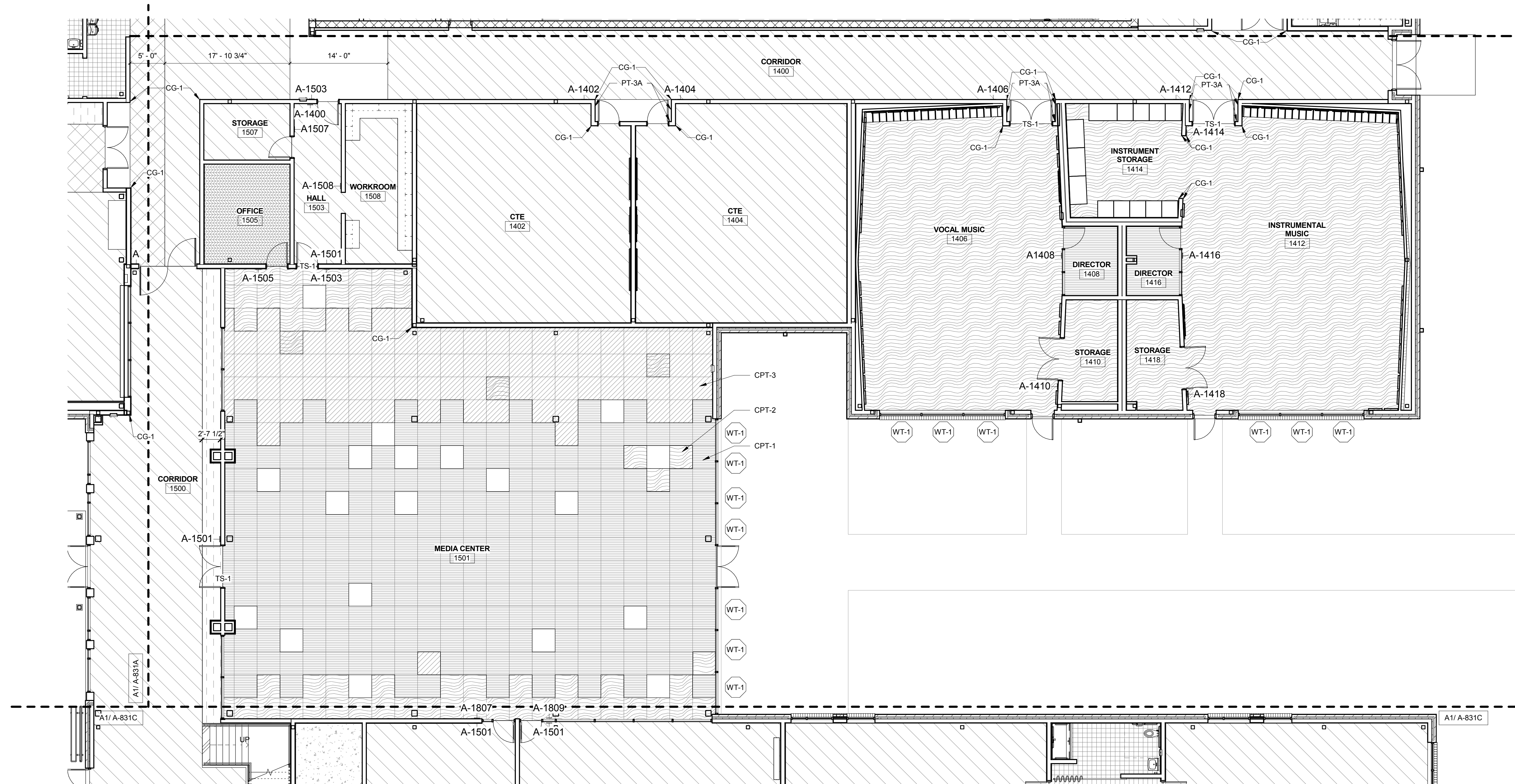
FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHER WISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND



SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 1 - AREA Bs A1
1/8" = 1'-0"



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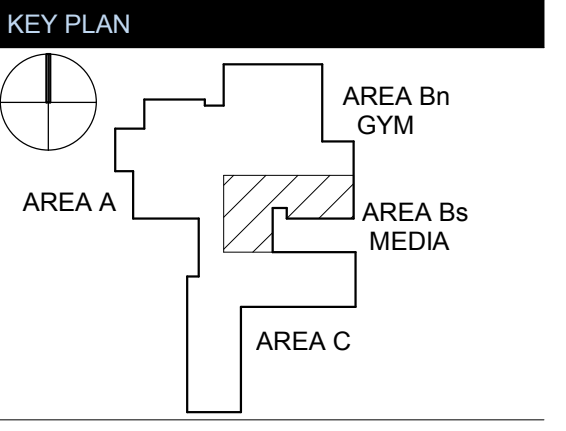
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SCALE: As indicated

SHEET NAME:
FINISH FLOOR PLAN
LEVEL 1 - AREA B MEDIA

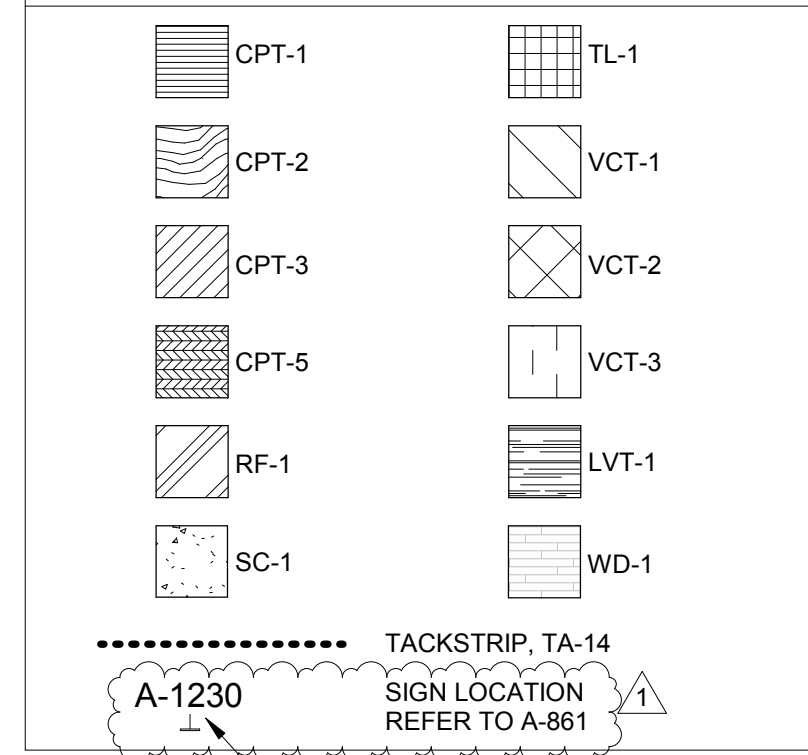
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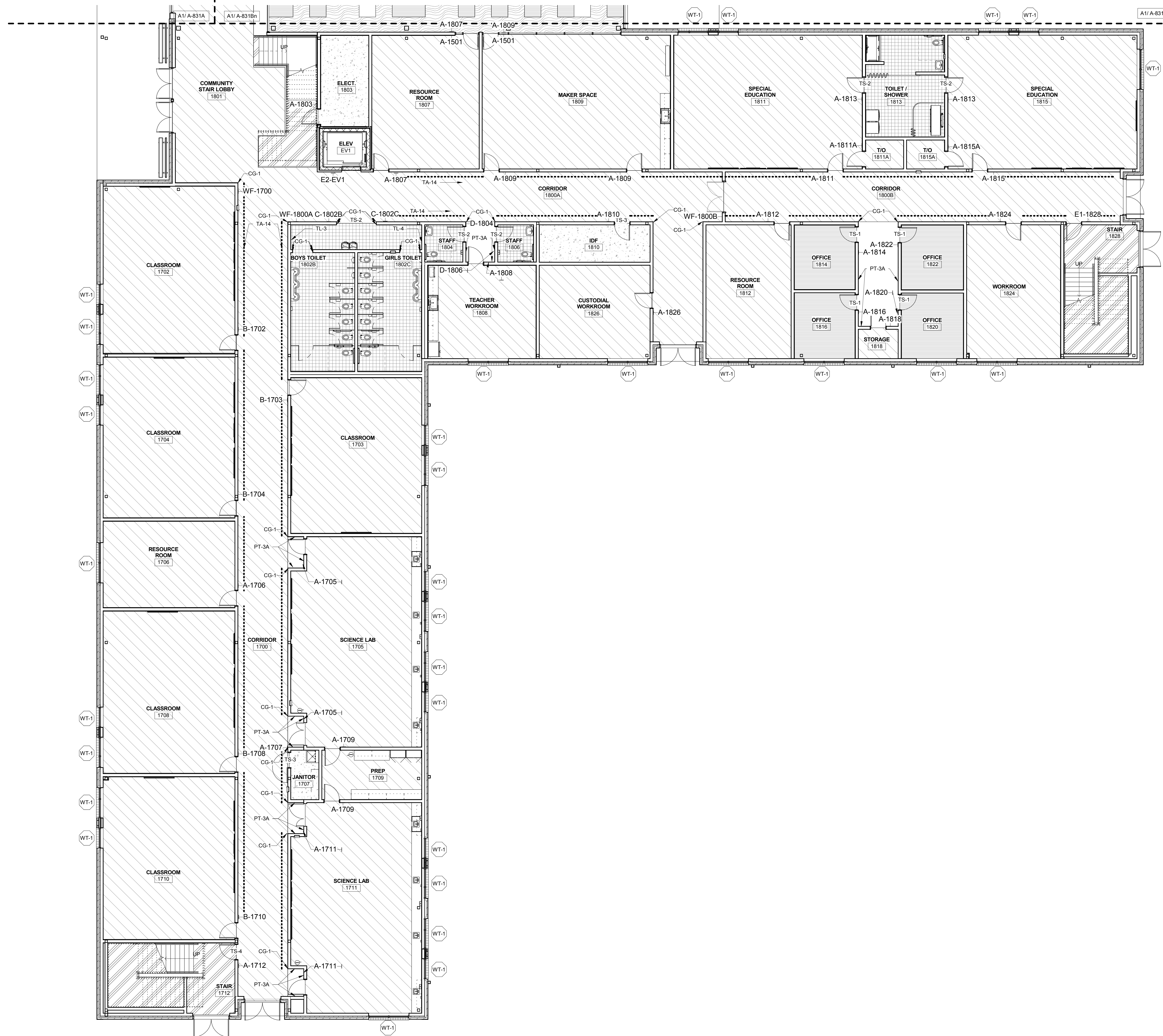
FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND



SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 1 - AREA C
1/8" = 1'-0" A1



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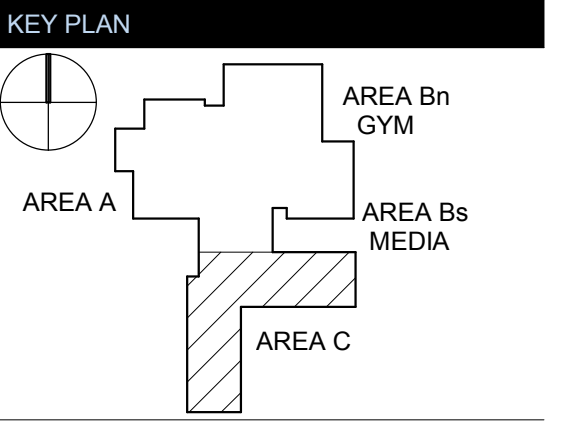
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

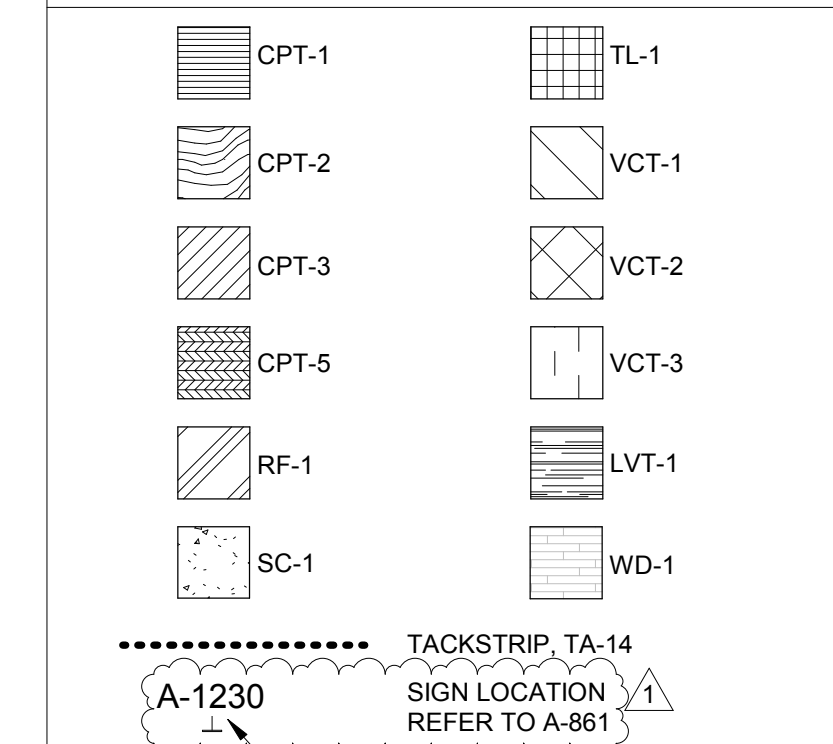
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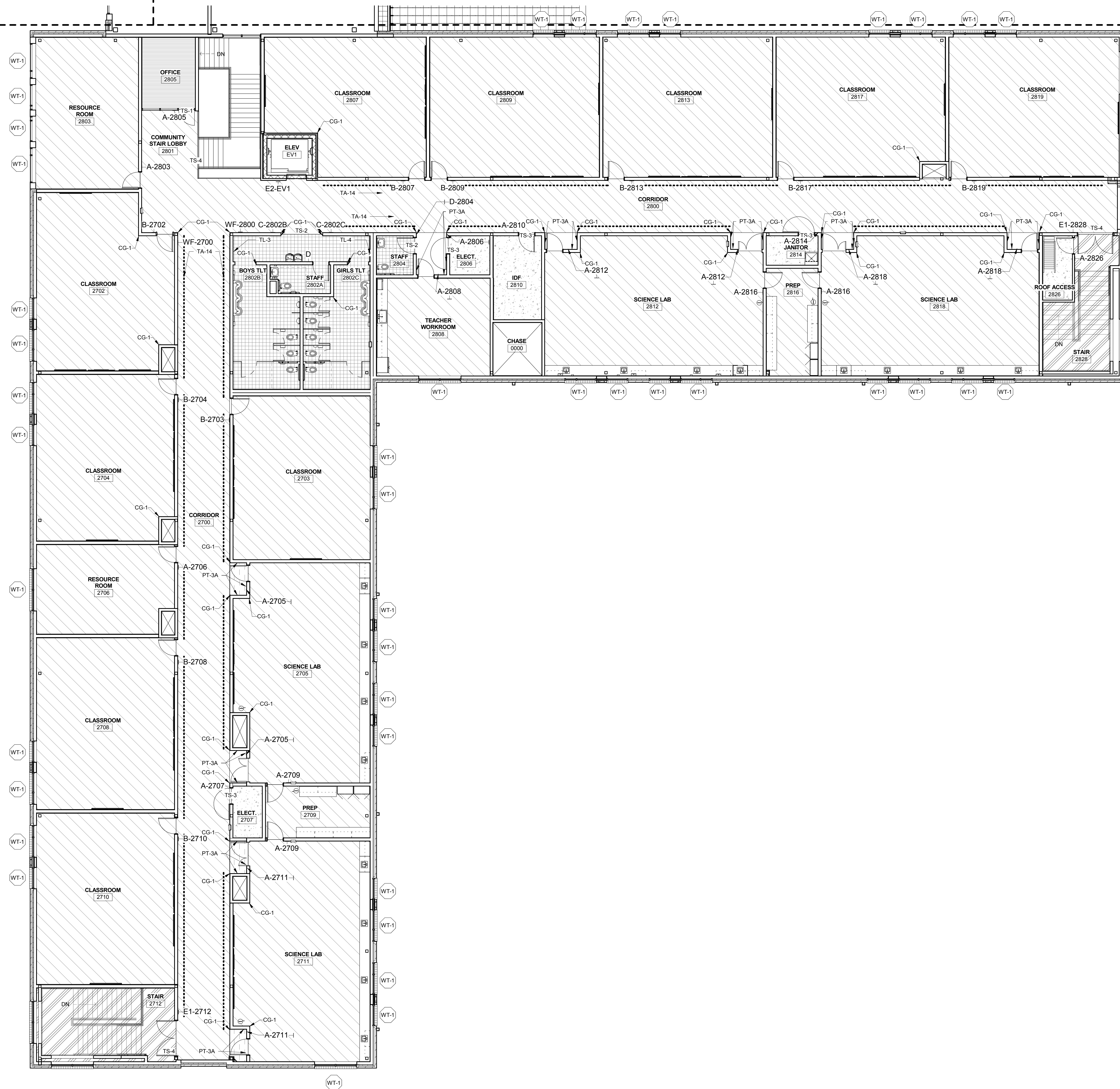
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1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACoustICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND



SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 2 - AREA C
1/8" = 1'-0" **A1**



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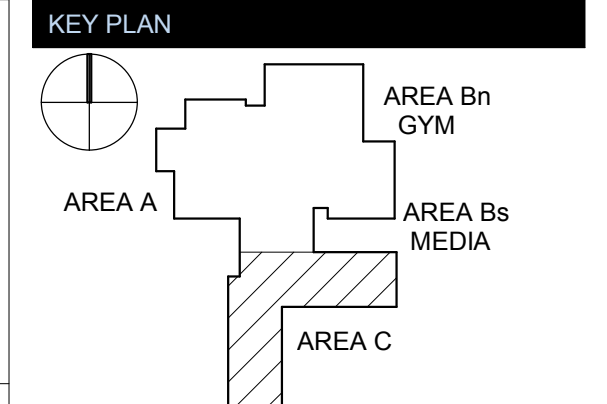
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TOWN CREEK MIDDLE SCHOOL

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 WINNABOW, NC 28479



REVISIONS

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ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
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SHEET NAME: FINISH FLOOR PLAN LEVEL 2 - AREA C
SHEET NUMBER:

A-832C

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALLS	CEILING FINISH	COMMENTS
1227	LOADING AREA	-	-	-	-	
1000	COMMONS CORRIDOR	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A	-	
1001	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1002	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1002A	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1002B	GIRLS TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1002C	BOYS TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1100A	CORRIDOR	CPT-5	WB-1	PT-1A	ACT-1	
1100B	CORRIDOR	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1100C	CORRIDOR	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1101	PARENT CENTER	CPT-5	WB-1	PT-1A	ACT-1	
1102	RECEPTION	VCT-1CPT-5	WB-1	PT-1A/PT-3A	ACT-1	
1103	WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1104	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1105	SECURED RECORDS	VCT-1	WB-1	PT-1A	ACT-1	
1106	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1107	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1108	ASSIST. PRINCIPAL	CPT-5	WB-1	PT-1A	ACT-1	
1110	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1112	PRINCIPAL OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1114	CONF. RM 1	CPT-5	WB-1	PT-1A	ACT-1	
1115	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1116	GUIDANCE	CPT-5	WB-1	PT-1A	ACT-1	
1117	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1118	NURSE	VCT-1	WB-1	PT-1A	ACT-1	
1118A	EXAM	VCT-1	WB-1	PT-1A	ACT-1	
1118B	TOILET / SHOWER	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1119	BOOK STORAGE	TL-1	WB-1	PT-1A	ACT-1	
1120	IN-SCHOOL SUSPENSION	CPT-5	WB-1	PT-1A	ACT-1	
1121	RESOURCE OFFICER	CPT-5	WB-1	PT-1A	ACT-1	
1122	I.T. MDF	SC-1	WB-1	PT-1A	ACT-1	
1201	GYM	WD-1WD-3RF-5/VC	WB-3	PT-1A/PT-3A	-	REF: FINISH FLOOR PLANS FOR FLOORING LOCATIONS
1202	SNACK BAR	VCT-1	WB-1	PT-1A	ACT-1	
1203	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1204	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1205	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1205A	GIRLS LOCKERS	TL-1	WB-2	PT-1B	PT-1B	
1205B	GIRLS TOILET	TL-1	WB-2	TL-2/TL-4/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1206A	GIRLS DRESSING ROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	PT-1A	
1206B	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1207	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1208A	BOYS DRESSING ROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1208B	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1209	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1210	STAGE	VCT-4	WB-1	PT-1A	ACT-1	
1211	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1212	ROOF ACCESS	-	-	-	-	
1213	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1213A	BOYS LOCKERS	TL-1	WB-2	PT-1B	PT-1B	
1213B	BOYS TOILET	TL-1	WB-2	TL-2/TL-3/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1226	LOADING AREA	-	-	-	-	
1302	DINING	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A/PT-5B	ACT-1/PT-2/PT-5A	
1304	SNACK LINE	TL-1	WB-2	TL-2	PT-1B	
1306	SERVERY	TL-1	WB-2	TL-2	PT-1B	
1308	KITCHEN	TL-1	WB-2	FRP-1	ACT-2	
1309	OFFICE	TL-1	WB-2	PT-1B	ACT-2	
1310	WAREWASHING	TL-1	WB-2	FRP-1	ACT-2	
1311	PLUMBING	SC-1	WB-1	PT-1B	-	
1312	DRY STORAGE	TL-1	WB-1	PT-1B	ACT-2	
1313	LOCKERS	TL-1	WB-1	PT-1B	ACT-2	
1313A	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1315	FREEZER	-	-	-	-	
1317	COOLER	-	-	-	-	
1319	ELECT.	SC-1	WB-1	PT-1A	-	
1400	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1402	CTE	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1404	CTE	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1406	VOCAL MUSIC	CPT-2	WB-1	PT-1A/ AWP-1	ACT-1	
1408	DIRECTOR	CPT-5	WB-1	PT-1A	ACT-1	
1410	STORAGE	CPT-2	WB-1	PT-1A	ACT-1	
1412	INSTRUMENTAL MUSIC	CPT-2	WB-1	PT-1A/ AWP-1	ACT-1	
1413	ART	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1414	INSTRUMENT STORAGE	CPT-2	WB-1	PT-1	ACT-1	
1415	ART STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1416	DIRECTOR	CPT-5	WB-1	PT-1A	ACT-1	
1417	KILN	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1418	STORAGE	CPT-2	WB-1	PT-1	ACT-1	
1500	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1501	MEDIA CENTER	CPT-1CPT-2/CPT-3	WB-1	PT-1A/PT-3A/PT-5A	ACT-1/PT-3A/PT-5A	
1503	HALL	VCT-1	WB-1	PT-1A	ACT-1	
1505	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1507	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1508	WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1700	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1702	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1703	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1704	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1705	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1706	RESOURCE ROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1707	JANITOR	SC-1	WB-1	FRP-1	-	UP TO 8'-0"
1708	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1709	PREP	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1710	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1711	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1712	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
1800A	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1800B	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1800C	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1801	COMMUNITY STAIR LOBBY	RF-1RF-2	WB-1	PT-1A	-	RF-1 ON LANDINGS, RF-2 ON STAIR TREADS, RISERS AND NOSINGS, PT-4 ON HANDRAILS AND STAIR
1802	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1802B	BOYS TOILET	TL-1	WB-2	TL-2/TL-3/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1802C	GIRLS TOILET	TL-1	WB-2	TL-2/TL-4/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1803	ELECT.	SC-1	WB-1	PT-1A	-	
1804	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1805	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
1806	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1807	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
1808	TEACHER WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1809	MAKER SPACE	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1810	IDF	SC-1	WB-1	PT-1A	ACT-1	
1811	SPECIAL EDUCATION	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1811A	TO	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1812	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
1813	TOILET / SHOWER	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1814	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1815	SPECIAL EDUCATION	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1815A	TO	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1816	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1818	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1820	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1822	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1824	WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1826	CUSTODIAL WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1828	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
EV1	ELEV	CPT-1	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALLS	CEILING FINISH	COMMENTS
2700	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
2702	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2703	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2704	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2705	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2706	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
2707	ELECT.	SC-1	WB-1	PT-1A	-	
2708	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2709	PREP	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2710	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2711	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2712	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
2800	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
2801	COMMUNITY STAIR LOBBY	RF-1RF-2	WB-1	PT-1A	-	RF-1 ON LANDINGS, RF-2 ON STAIR TREADS, RISERS AND NOSINGS, PT-4 ON HANDRAILS AND STAIR
2802	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
2802A	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2802B	BOYS TLT	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2802C	GIRLS TLT	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2803	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
2804	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2805	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
2806	ELECT.	SC-1	WB-1	PT-1A	-	
2807	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2808	TEACHER WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
2809	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2810	IDF	SC-1	WB-1	PT-1A	ACT-1	
2812	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2813	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2814	JANITOR	SC-1	WB-1	FRP-1	ACT-1	UP TO 8'-0"
2816	PREP	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2817	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2818	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2819	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2826	ROOF ACCESS	-	-	-	-	
2828	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.

SYMBOL	MATERIAL TYPE	MANUFACTURER	PATTERN	COLOR	NOTES
ACT-1	ACOUSTICAL CEILING TILE; 2X2	ARMSTRONG	OPTIMA LAY-IN	WHITE	MUST MEET NRC 0.7
ACT-2	ACOUSTICAL CEILING TILE; 2X2	ARMSTRONG	CLEAN ROOM FL	WHITE	MOISTURE PRONE LOCATIONS
ACP-1	ACOUSTICAL CEILING PANEL; 2' WIDE X 4' TALL	ARMSTRONG	SOUND/BAFFLES, SAILCLOTH	TBD	GYMNASIUM CEILING
AWP-1	ACOUSTICAL WALL PANEL; 2X2'	WENGER	ABSORBER PANELS	LEAF	INSTRUMENTAL/VOCAL CLASSROOMS
AWP-2	ACOUSTICAL CEILING PANEL; 3X3'	ALPRO	ACOUST-X, 22 GAUGE PERFORATED STEEL	TBD	GYMNASIUM WALLS
CG-1	CORNER GUARD	KOROSEAL	2" STAINLESS STEEL CORNER GUARD	STAINLESS STEEL	ALL OUTSIDE CORNERS AS SHOWN ON FINISH PLANS
CPT-1	CARPET TILE; 50X50	MILLIKEN	LYCEUM PLATO	PLN69 MICA	FIELD CARPET
CPT-2	CARPET TILE; 50X50	MILLIKEN	LYCEUM PLATO	PLB141 ROLLING STONE	ACCENT CARPET
CPT-3	CARPET TILE; 50X50	MILLIKEN	LYCEUM PLATO	PLB103 SPRING	ACCENT CARPET
CPT-4	NOT USED	-	-	-	-
CPT-5	CARPET TILE; 50X50	MILLIKEN	STRAIGHT TALK EYE CONTACT	EC524 LEAF	ADMINISTRATION AND OFFICES
FRP-1	FIBER REINFORCED PLASTIC	MARLITE	STANDARD FRP - PEBBLED	WHITE	BOH KITCHEN - UP TO CEILING, JANITOR
GR-1	GROUT	CUSTOM BUILDING	FUSION PRO	#335 WINTER GRAY	ALL GROUT
PL-1	PLASTIC LAMINATE	NEVAMAR	S7027T	SMOKY WHITE	TYPICAL COUNTERTOPS
PL-2	PLASTIC LAMINATE	NEVAMAR	WM0046	ILLUSTRIOUS MAPLE	TYPICAL UPPER/LOWER CABINETS
PL-3	PLASTIC LAMINATE	NEVAMAR	SS001 T	BLACK	ALL CABINET TOEGRIPS
PT-1A	PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX; EGGSHELL	SW 7042 SHOJI WHITE	FIELD PAINT
PT-1B	PAINT	SHERWIN WILLIAMS	WATER BASED CATALYZED EPOXY; EGGSHELL	SW 7042 SHOJI WHITE	WET AREA FIELD PAINT
PT-2	PAINT	SHERWIN WILLIAMS	PRO-INDUSTRIAL ACRYLIC SEMI GLOSS	SW 7031 MEGA GREIGE	STAIR RAILINGS, HANDRAILS, STRINGERS; DOOR TRIM, EXPOSED INTERIOR STRUCTURE
PT-3A	PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX; EGGSHELL	SW 6711 PARAKEET	ACCENT PAINT
PT-3B	PAINT	SHERWIN WILLIAMS	WATER BASED CATALYZED EPOXY; EGGSHELL	SW 6711 PARAKEET	ACCENT PAINT; DINING
PT-4	PAINT	SHERWIN WILLIAMS	PRO-INDUSTRIAL ACRYLIC SEMI GLOSS	SW 6643 YAM	COMMUNITY STAIR; STAIR RAILINGS, HANDRAIL

SIGN TYPE	ID #	SYMBOL	SIGN TEXT	NUMBER OF SIGNS
D	1002A	X	RESTROOM	1
C	1002B	X	GIRLS	4
C	1002C	X	BOYS	1
A	1100C		SCHOOL OFFICE	1
A	1101		PARENT CENTER	1
A	1102		RECEPTION	1
A	1103		WORKROOM	1
A	1104		OFFICE	1
A	1105		SECURED RECORDS	1
A	1106		OFFICE	1
A	1107		STORAGE	1
A	1108		ASSISTANT PRINCIPAL	1
A	1110		STORAGE	1
A	1112		PRINCIPAL OFFICE	1
A	1114		CONFERENCE ROOM	1
D	1115		STAFF TOILET	1
A	1116		GUIDANCE	1
D	1117	X	STAFF TOILET	1
A	1118		NURSE	1
D	1118B	X	TOILET	1
A	1119		BOOK STORAGE	1
A	1120		IN-SCHOOL SUSPENSION	1
A	1121		RESOURCE OFFICER	1
A	1122		IT MDF	1
A	1201		GYM	3
A	1202		SNACK BAR	1
A	1203		STORAGE	2
A	1204		BACK OF STAGE	2
A	1205A		GIRLS LOCKER	1
A	1205A		GIRLS DRESSING ROOM	1
D	1206B	X	TOILET	1
A	1207		OFFICE	1
A	1208A		BOYS DRESSING ROOM	1
D	1208B	X	TOILET	1
A	1209		STORAGE	2
A	1210		LIFT	1
A	1212		ROOF ACCESS	1
A	1213A		BOYS LOCKER	1
A	1302		DINING	1
A	1308		KITCHEN	2
A	1309		OFFICE	1
A	1310		WARE WASHING	1
A	1312		DRY-STORAGE	1
A	1313		LOCKERS	1
D	1313A	X	TOILET	1
A	1319		ELECTRICAL	1
A	1400		CORRIDOR	1
A	1402		CTE	1
A	1404		CTE	1
A	1406		VOCAL MUSIC	1
A	1408		DIRECTOR	1
A	1410		STORAGE	1
A	1412		INSTRUMENTAL MUSIC	1
A	1413		ART	1
A	1414		STORAGE	1
A	1415		ART STORAGE	1
A	1416		DIRECTOR	1
A	1417		KILN	1

SIGN TYPE	ID #	SYMBOL	SIGN TEXT	NUMBER OF SIGNS
A	1418		STORAGE	1
A	1501		MEDIA CENTER	4
A	1503		MEDIA XX	2
A	1505		OFFICE	1
A	1507		STORAGE	1
A	1508		WORKROOM	1
WF	1700		SOUTH WING	1
B	1702		MS.XXX	1
B	1703		MS.XXX	1
B	1704		MS.XXX	1
A	1705		SCIENCE LAB	2
A	1706		RESOURCE ROOM	1
A	1707		JANITOR	1
B	1708		MS.XXX	1
A	1709		PREP	2
B	1710		MS.XXX	1
A	1711		SCIENCE LAB	2
E1	1712	X	STAIR	1
WF	1800A		EAST WING	1
WF	1800B		EXCEPTIONAL CHILDREN WING	1
C	1802B	X	BOYS	1
C	1802C	X	GIRLS	1
A	1803		ELECTRICAL	1
D	1804	X	STAFF TOILET	1
E1	1805	X	STAIR	1
D	1806		STAFF TOILET	1
A	1807		RESOURCE ROOM	2
A	1808		TEACHER WORKROOM	1
A	1809		MAKER SPACE	3
A	1810		IDF	1
A	1811		SPECIAL EDUCATION	1
A	1811A		T/O	1
A	1812		RESOURCE ROOM	2
A	1813	X	TOILET/SHOWER	1
A	1814		OFFICE	1
A	1815		SPECIAL EDUCATION	1
A	1815A		T/O	1
A	1816		OFFICE	1
A	1818		STORAGE	1
A	1820		OFFICE	1
A	1822		OFFICE	1

SIGN TYPE	ID #	SYMBOL	SIGN TEXT	NUMBER OF SIGNS
A	1824		WORKROOM	1
A	1826		CUSTODIAL WORKROOM	1
E1	1828	X	STAIR	1
WF	2700		SOUTH WING	1
B	2702		MS.XXX	1
B	2703		MS.XXX	1
B	2704		MS.XXX	1
A	2705		SCIENCE LAB	2
A	2706		TEACHER WORKROOM	1
A	2707		ELECTRICAL	1
B	2708		MS.XXX	1
A	2709		PREP	2
B	2710		MS.XXX	1
A	2711		SCIENCE LAB	2
E1	2712		STAIR	1
WF	2800		EAST WING	1
D	2802A	X	STAFF TOILET	1
C	2802B	X	BOYS	1
C	2802C	X	GIRLS	1
A	2803		RESOURCE ROOM	1
D	2804	X	STAFF TOILET	1
A	2805		OFFICE	1
A	2806		ELECTRICAL	1
B	2807		MS.XXX	1
A	2808		TEACHER WORKROOM	1
B	2809		MS.XXX	1
A	2810		IDF	1
A	2812		SCIENCE LAB	1
B	2813		MS.XXX	1
A	2814		JANITOR	1
A	2816		PREP	2
B	2817		MS.XXX	1
A	2818		SCIENCE LAB	2
B	2819		MS.XXX	1
A	2828		ROOF ACCESS	1
E1	2828	X	STAIR	1
E2	EV1	X	ELEVATOR	2

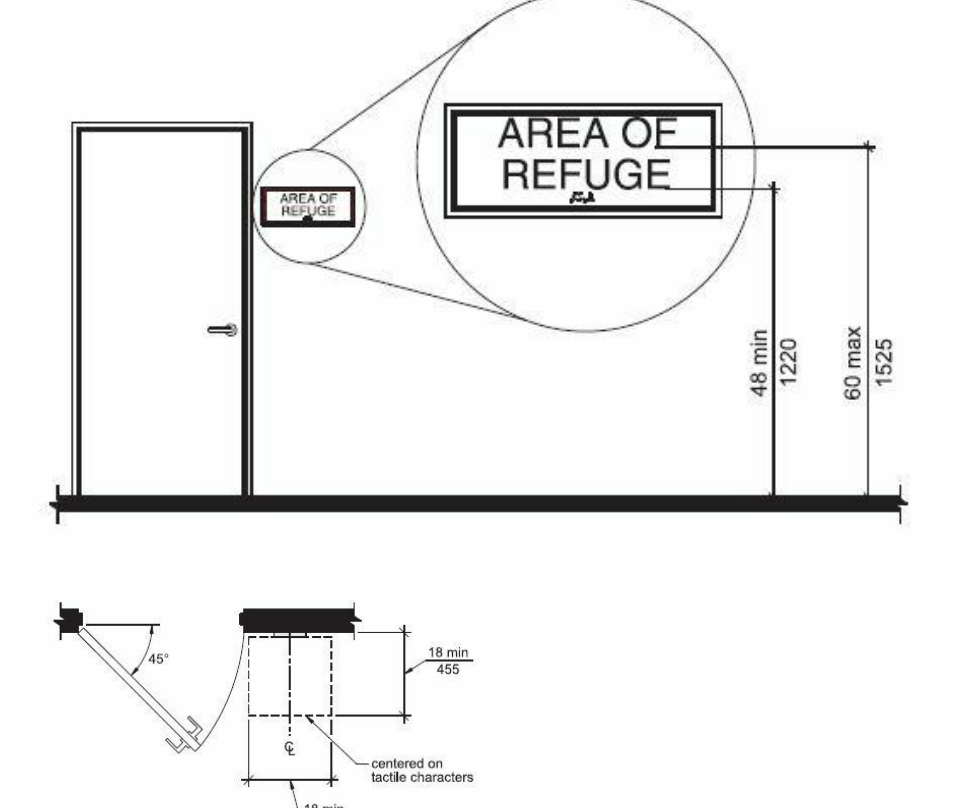
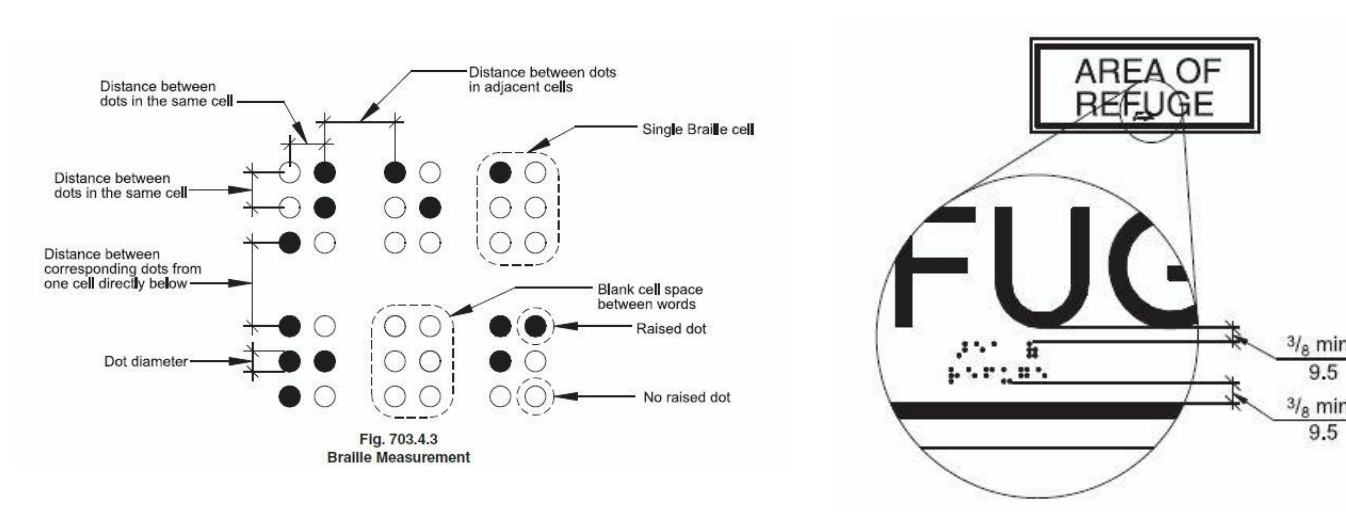
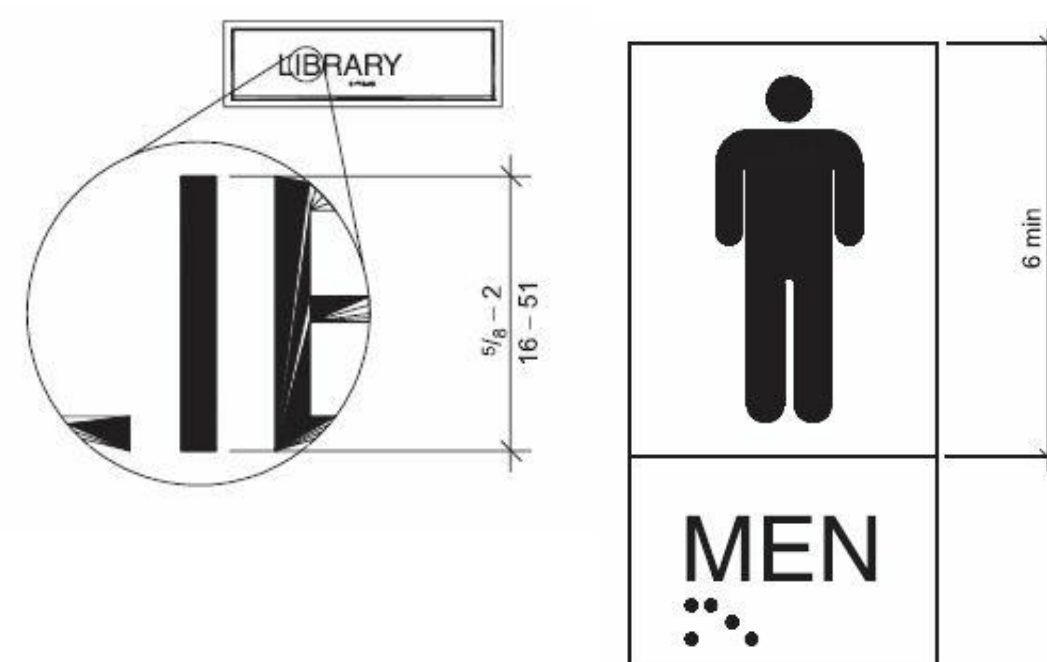
SEE FINISH PLANS A-800'S FOR SIGN LOCATIONS

Table 703.2.4—Visual Character Height

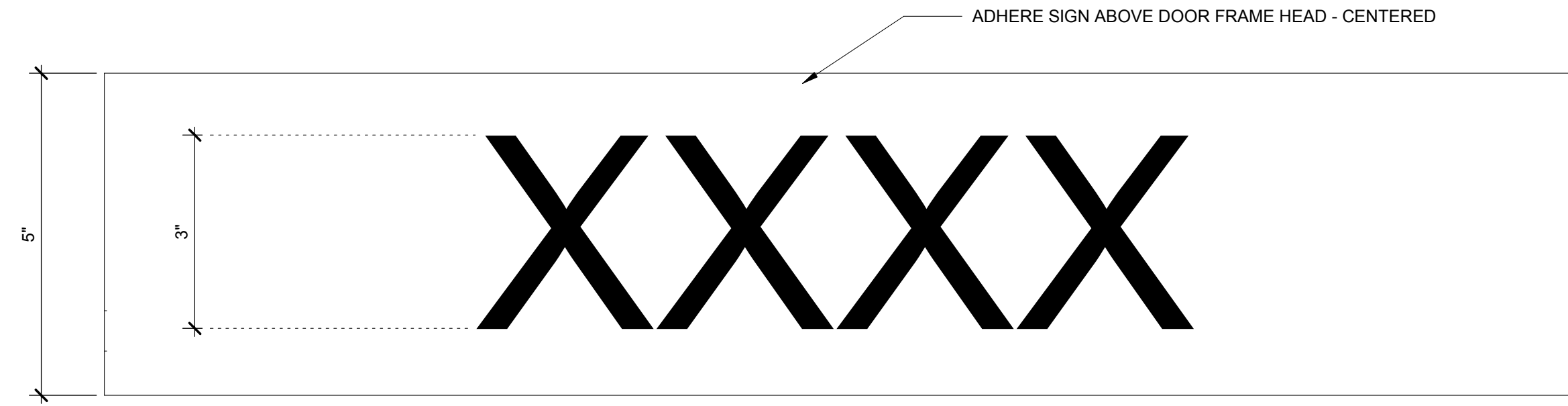
Height above Floor to Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	Less than 6 feet (1830 mm)	1/4 inch (6 mm)
	6 feet (1830 mm) and greater	1/8 inch (3.2 mm), plus 1/64 inch (0.4 mm) per foot (305 mm) of viewing distance above 6 feet (1830 mm)
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	Less than 15 feet (4570 mm)	2 inches (51 mm)
	15 feet (4570 mm) and greater	2 inches (51 mm), plus 1/64 inch (0.4 mm) per foot (305 mm) of viewing distance above 15 feet (4570 mm)
Greater than 120 inches (3050 mm)	Less than 21 feet (6400 mm)	3 inches (76 mm)
	21 feet (6400 mm) and greater	3 inches (76 mm), plus 1/64 inch (0.4 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)

Table 703.4.3—Braille Dimensions

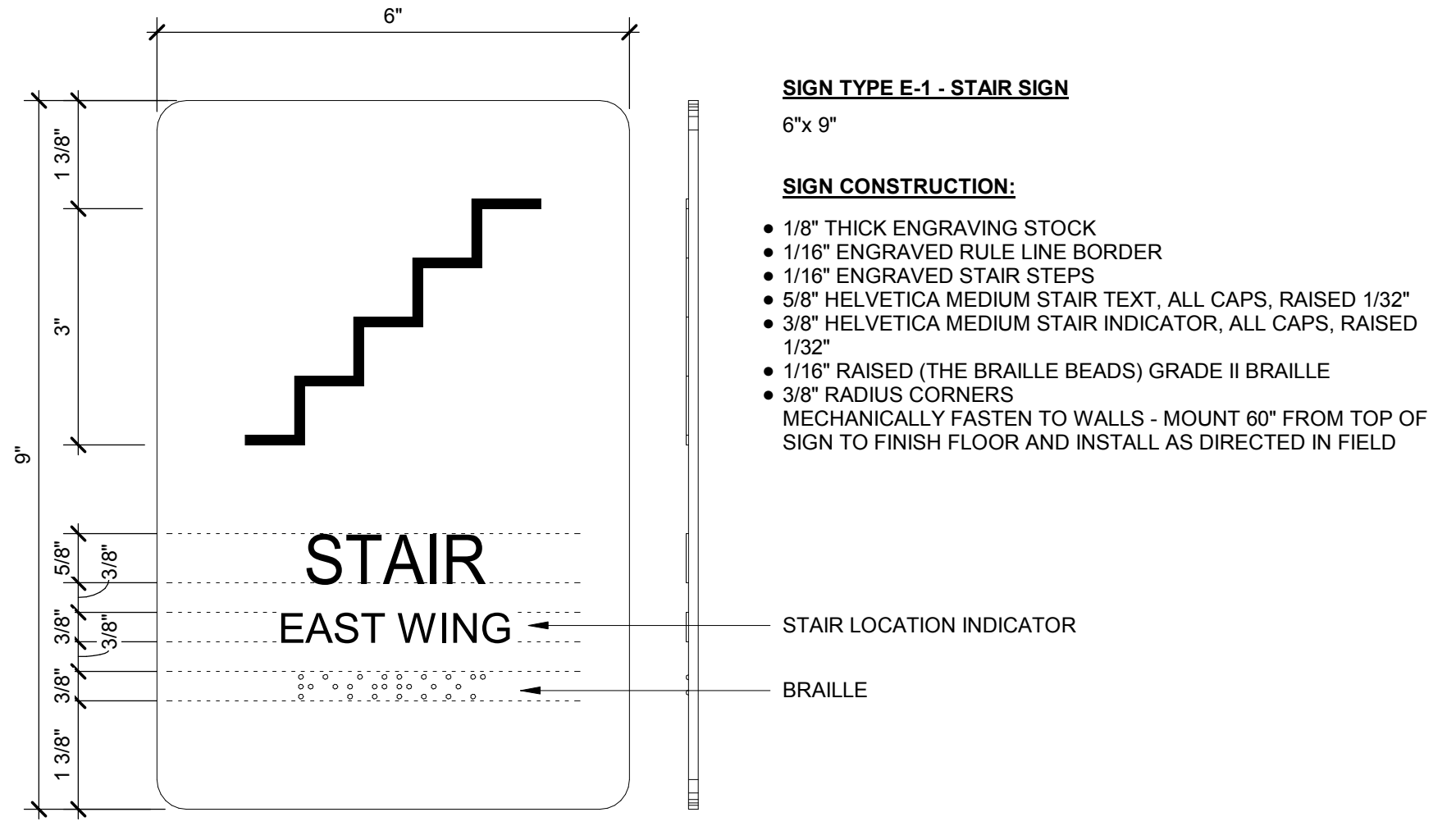
Measurement range	Minimum in inches	Maximum in inches
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)	
Distance between two dots in the same cell	0.090 (2.3 mm) to 0.100 (2.5 mm)	
Distance between corresponding dots in adjacent cells	0.241 (6.1 mm) to 0.300 (7.6 mm)	
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)	
Distance between corresponding dots from one cell directly below	0.395 (10.0 mm) to 0.400 (10.2 mm)	



SIGN LOCATION AND REQUIREMENTS (K1) NTS A-861



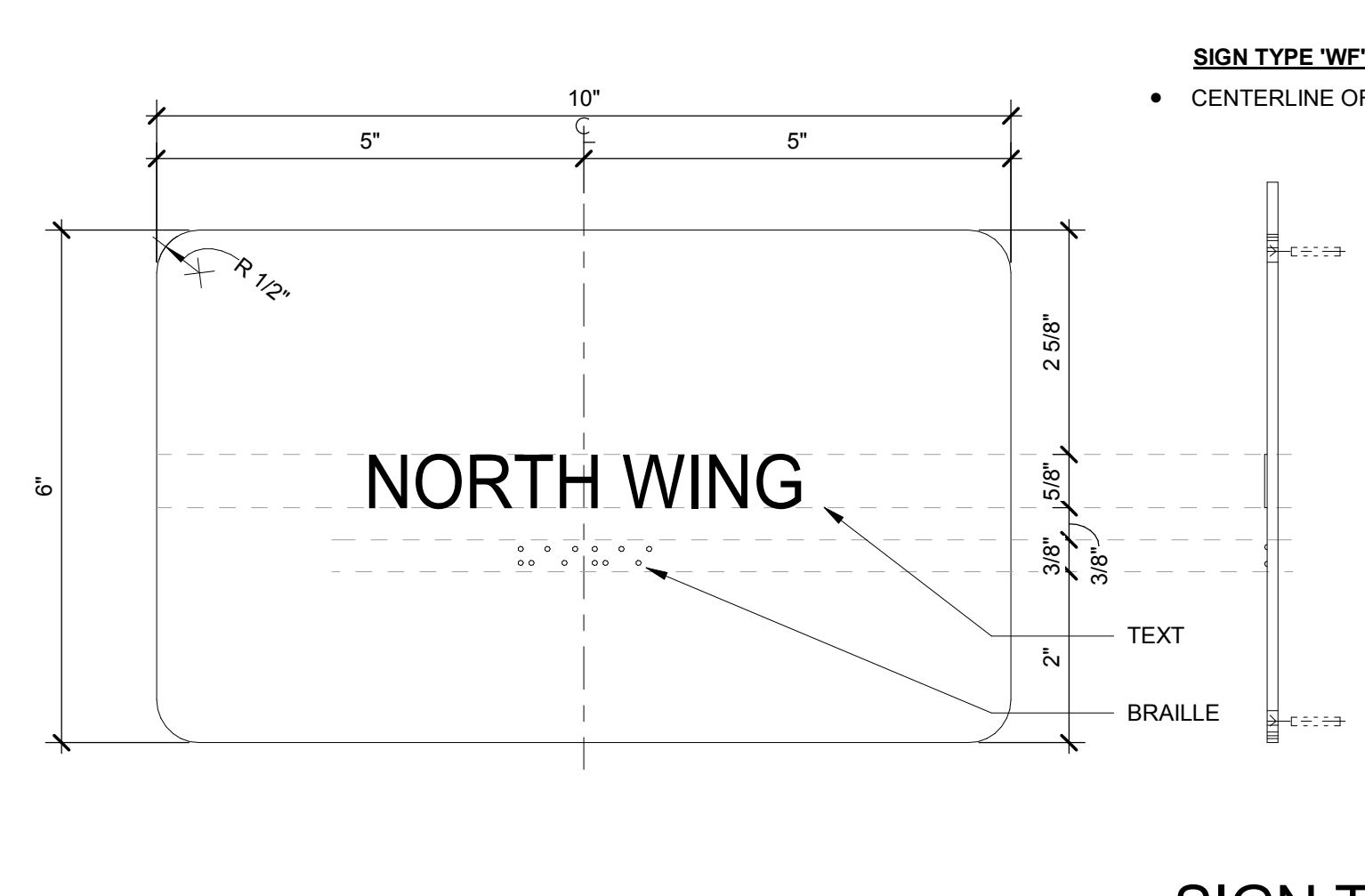
SIGN TYPE EWF (EMERGENCY WAY FINDING) (H1) 6" = 1'-0"



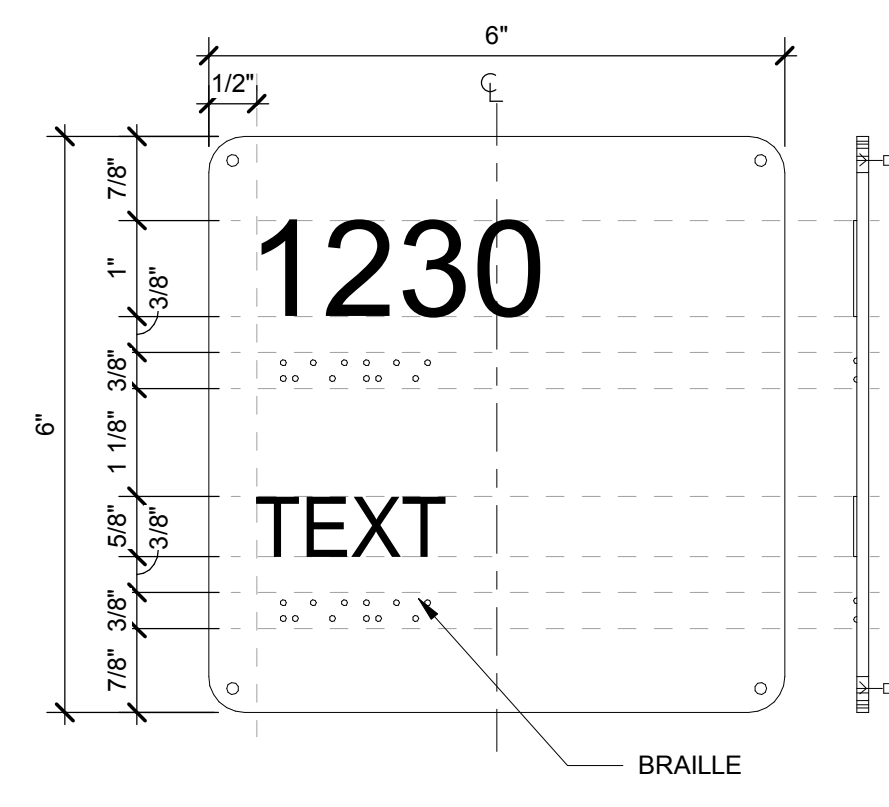
SIGN TYPE E1 (E12) 6" = 1'-0"



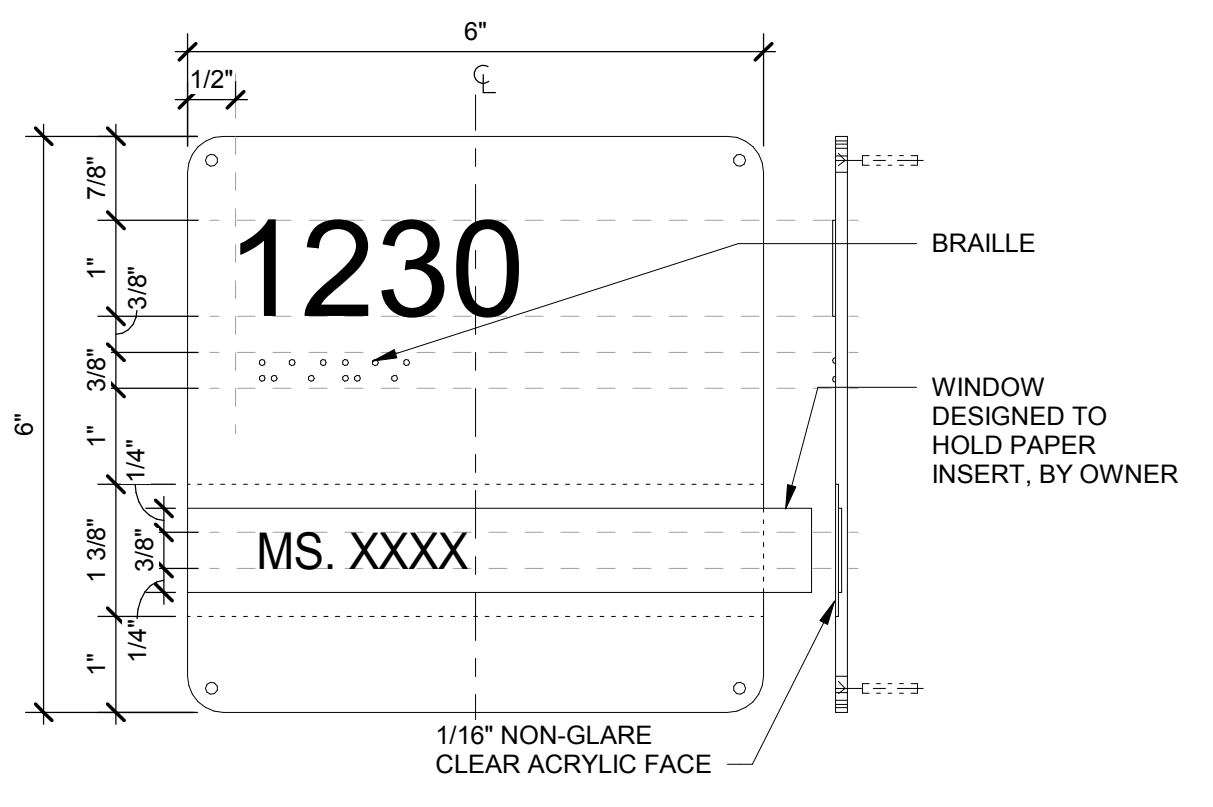
SIGN TYPE E2 (E7) 6" = 1'-0"



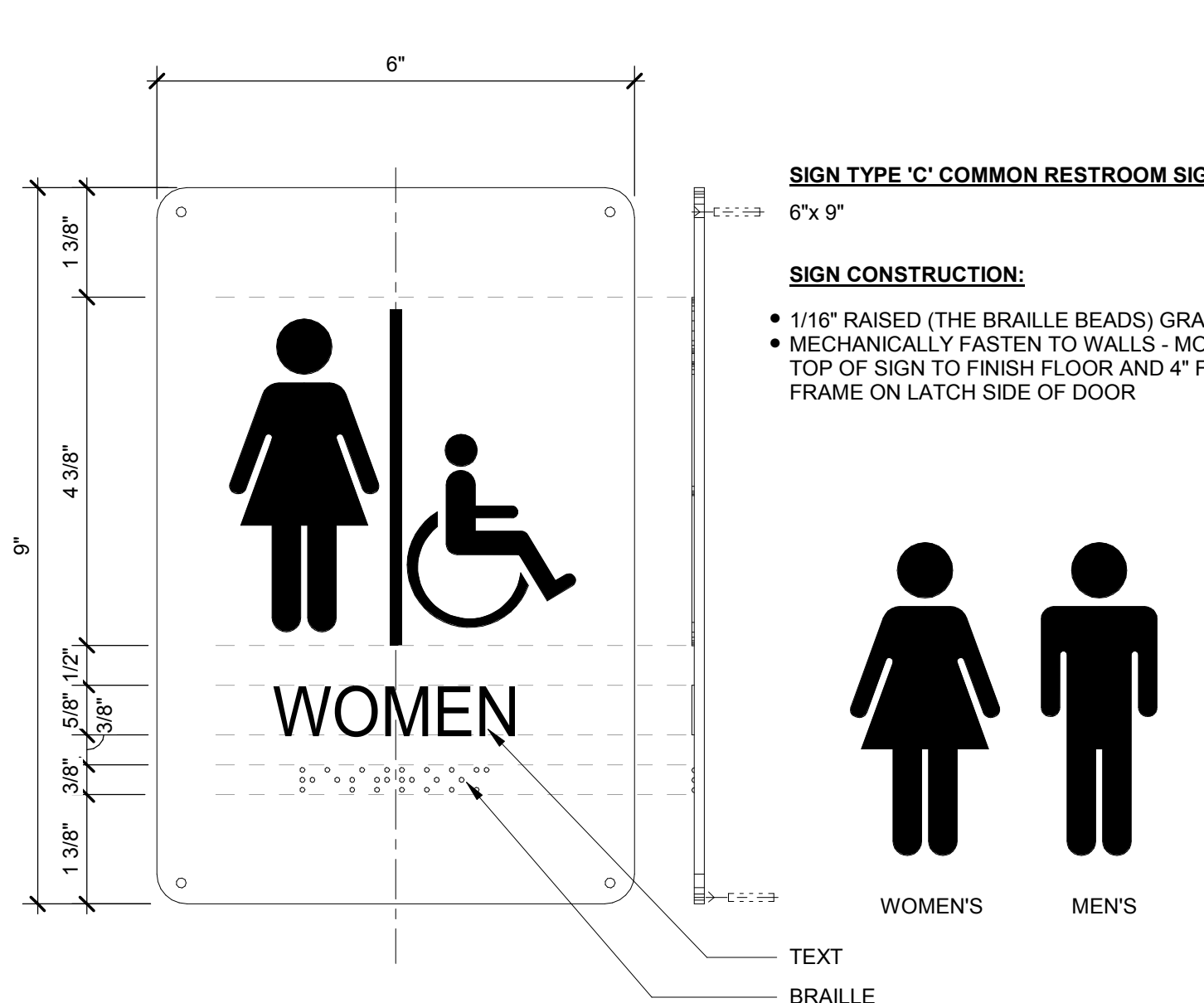
SIGN TYPE WF (E1) 6" = 1'-0"



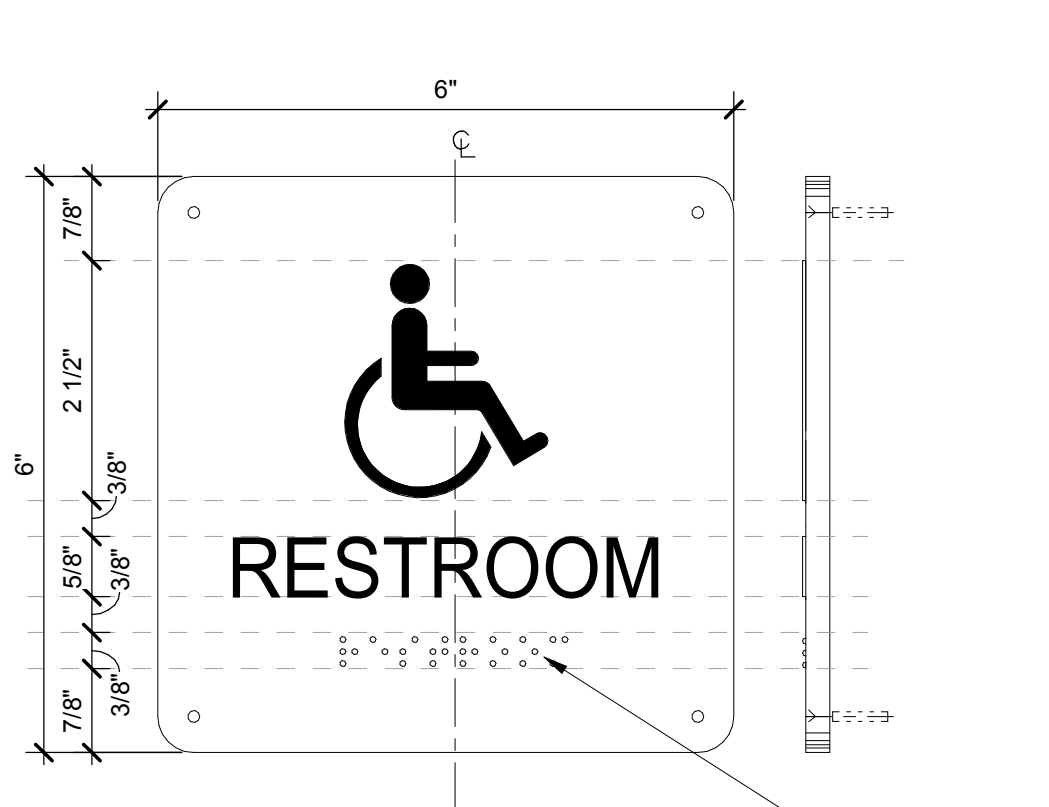
SIGN TYPE A (A16) 6" = 1'-0"



SIGN TYPE B (A10) 6" = 1'-0"



SIGN TYPE C (A5) 6" = 1'-0"



SIGN TYPE D (A1) 6" = 1'-0"

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SE
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KEY PLAN

AREA A
AREA Bn GYM
AREA Bs MEDIA
AREA C

REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: SIGNAGE SCHEDULE & DETAILS
SHEET NUMBER: A-861

PROJECT NUMBER: 1720601.00 COPYRIGHT © 2017 KSQ ARCHITECTS, PC

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPING	DESCRIPTION	MANUFACTURERS CATALOG SERIES NUMBER
A1	4038 LUMENS LED 34.2 WATTS	2"x2" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED.	LITHONIA #ZGTL-2-40L-A19 SERIES H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
A2	6300 LUMENS LED 48.3 WATTS	2"x4" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED. FULL DIMMING RANGE FOR 100% TO 1% (MINIMUM).	H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
A3	7740 LUMENS LED 53.2 WATTS	2"x4" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED. FULL DIMMING RANGE FOR 100% TO 1% (MINIMUM). 90-MINUTE 1,400-LUMEN EMERGENCY BATTERY BACKUP DRIVER.	LITHONIA #ZGTL-4-72L-A19-EZ1 SERIES H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
A3E	7740 LUMENS LED 53.2 WATTS	2"x4" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED. FULL DIMMING RANGE FOR 100% TO 1% (MINIMUM). 90-MINUTE 1,400-LUMEN EMERGENCY BATTERY BACKUP DRIVER.	LITHONIA #ZGTL-4-72L-A19-EZ1 SERIES H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
E1	LED 3 WATTS	EXIT SIGN, WALL MOUNTED, STENCIL FACE PLATE WITH RED DIFFUSER PANEL. UNIVERSAL KNOCKOUT DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, WHITE THERMO-PLASTIC HOUSING, 90 MINUTE EMERGENCY BATTERY BACKUP, SELF-DIAGNOSTICS, CONNECT TO UNSWITCHED LIGHTING CIRCUIT.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #QUANTUM SERIES CHLORIDE #CE15050 SERIES SURE LITES #APX SERIES
E2	LED 3 WATTS	EXIT SIGN, CEILING MOUNTED, STENCIL FACE PLATE WITH RED DIFFUSER PANEL. UNIVERSAL KNOCKOUT DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, WHITE THERMO-PLASTIC HOUSING, 90 MINUTE EMERGENCY BATTERY BACKUP, SELF-DIAGNOSTICS, CONNECT TO UNSWITCHED LIGHTING CIRCUIT.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #QUANTUM SERIES CHLORIDE #CE15050 SERIES SURE LITES #APX SERIES
E3	LED 6 WATTS	EXIT SIGN DOUBLE FACE, CEILING MOUNTED, STENCIL FACE PLATE WITH RED DIFFUSER PANEL. UNIVERSAL KNOCKOUT DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, WHITE THERMO-PLASTIC HOUSING, 90 MINUTE EMERGENCY BATTERY BACKUP, SELF-DIAGNOSTICS, CONNECT TO UNSWITCHED LIGHTING CIRCUIT.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #QUANTUM SERIES CHLORIDE #CE15050 SERIES SURE LITES #APX SERIES
E4	536 LUMEN LED 42 WATTS	EMERGENCY BATTERY PACK FIXTURE, TWIN LAMP STYLE. WALL MOUNT +/-5" AFF OR ABOVE WINDOW FRAME, OFF-WHITE FINISH, 90 MINUTE MINIMUM BATTERY POWER OPERATION, SELF-DIAGNOSTICS. CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #ELM6 LED SERIES PHILLIPS #TRU-D-LM5-W-C SERIES SURE LITES #SEL00 SERIES
G1	3,900 LUMEN LED 47 WATTS	TRAPEZOIDAL LED WALL MOUNTED AREA LIGHT FIXTURE 4,000K, FULL CUTOFF, WIDE TYPE III DISTRIBUTION TWO LED DRIVERS, FINISH TO MATCH STOREFRONT MATERIALS. 16"W X 7"H X 9"D, WET LOCATION LISTED, MOUNT +/-0.7" AFF OR TO MATCH ARCHITECTURAL FEATURES. 90 MINUTE EMERGENCY BATTERY TO COMPLY WITH NFPA-101.	GARCOO #101L-32L-530-3-UNV SERIES LITHONIA #WST-LED 2700KA SR2 MVOLT HUBBELL #TRP2 SERIES MCGRAW #IST #B2 LED E1 GZV
G1E	3,900 LUMEN LED 47 WATTS	TRAPEZOIDAL LED WALL MOUNTED AREA LIGHT FIXTURE 4,000K, FULL CUTOFF, WIDE TYPE III DISTRIBUTION TWO LED DRIVERS, FINISH TO MATCH STOREFRONT MATERIALS. 16"W X 7"H X 9"D, WET LOCATION LISTED, MOUNT +/-0.7" AFF OR TO MATCH ARCHITECTURAL FEATURES. 90 MINUTE EMERGENCY BATTERY TO COMPLY WITH NFPA-101.	GARCOO #101L-32L-530-3-UNV SERIES LITHONIA #WST-LED 2700KA SR2 MVOLT HUBBELL #TRP2 SERIES MCGRAW #IST #B2 LED E1 GZV
H1	4,000 LUMEN LED 33 WATTS	10"x4" LED VRAPAROUND FIXTURE, DIE FORMED STEEL HOUSING, WHITE ENAMEL FINISH, CURVED PRISMATIC DIFFUSER WITH LINEAR SIDE PRISMS, SURFACE MOUNTED OR IN THE I.T. ROOM SUSPENDED AT 9'-0" AFF AS COORDINATED WITH I.T. DEPARTMENT. 3,500K.	LITHONIA #RLB4 SERIES H.E. WILLIAMS #39-4-140 SERIES METALLUX #W5NL-LD-40SL SERIES DAYBRITE #OWL-4-40L-840 SERIES
H1E	4,000 LUMEN LED 33 WATTS	10"x4" LED VRAPAROUND FIXTURE, DIE FORMED STEEL HOUSING, WHITE ENAMEL FINISH, CURVED PRISMATIC DIFFUSER WITH LINEAR SIDE PRISMS, SURFACE MOUNTED OR IN THE I.T. ROOM SUSPENDED AT 9'-0" AFF AS COORDINATED WITH I.T. DEPARTMENT. 3,500K. 90 MINUTE EMERGENCY BATTERY.	LITHONIA #RLB4 SERIES H.E. WILLIAMS #39-4-140 SERIES METALLUX #W5NL-LD-40SL SERIES LITHONIA #RLX4 SERIES H.E. WILLIAMS #39-4-140 SERIES
H2	8,355 LUMEN LED 64 WATTS	4 LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, MATTE BLACK HOUSING FINISH, FLAT DIFFUSER LENS, SUSPEND AT +/-5" AFF AS COORDINATED WITH STAGE OPENING, 3,500K.	LITHONIA #RLX4 SERIES H.E. WILLIAMS #39-4-140 SERIES DAYBRITE
J1	28,550 LUMEN LUMLEDS 280 WATTS	SQUARE GYM LED LIGHT, 4-8 MODULES, 100 LUMENS PER WATT, COLD FORGED ALUMINUM HEAT SINK, BLACK FINISH, TEMPERED GLASS, 40 DEGREE BEAM SPREAD, IP66 HOUSING, SUSPEND FROM STRUCTURE AS COORDINATED WITH ARCHITECTURAL ELEVATIONS. 4,000K.	METEOR TS-280-40K-55 OR APPROVED EQUIVALENT
K	3,033 LUMEN LED 23 WATTS	2 X 7" VAPORTIGHT LINEAR LED CANOPY FIXTURE, SEAMLESS FIBERGLASS HOUSING, LOW-PROFILE FROSTED ROUNDED LENS, SURFACE MOUNT TO BOTTOM OF CANOPY STRUCTURE, 4,000K, WET LOCATION LABEL MATCH EXISTING CANOPY INSTALLATION.	LITHONIA #PEM SERIES H.E. WILLIAMS #METALUX #24GR-FA-LED-HCD SERIES DAYBRITE
K1	900 LUMEN LED 14 WATTS	VAPORPROOF JELLY JAR WITH WIRE GUARD, DIE-CAST HOUSING, 900 LUMENS MINIMUM, WET LOCATION LABEL. COORDINATE LOCATION WITH ELEVATOR SHAFT EQUIPMENT.	LITHONIA #PEM SERIES H.E. WILLIAMS #METALUX #24GR-FA-LED-HCD SERIES PHILLIPS STONOCO
M1	4,200 LUMEN LED 32 WATTS	4' LONG LED UP/DOWN WALL BRACKET, IMPACT RESISTANT, WHITE FINISH, LINEAR PRISMATIC REFRACTOR, STEP DOWN DIMMING BY MOTION SENSOR, 3,500K, MOUNT +/-0.7" AFF OR ABOVE LANDING.	SCOTT #35952 SERIES VISA # CBS513 SERIES TERON LIGHTING #CPR24-L20.0 SERIES
M1E	4,200 LUMEN LED 32 WATTS	4' LONG LED UP/DOWN WALL BRACKET, IMPACT RESISTANT, WHITE FINISH, LINEAR PRISMATIC REFRACTOR, STEP DOWN DIMMING BY MOTION SENSOR, 3,500K, MOUNT +/-0.7" AFF OR ABOVE LANDING, 90-MINUTE BATTERY BACKUP TO OPERATE DIMMING LEVEL DURING LOSS OF POWER.	SCOTT #35952 SERIES VISA # CBS513 SERIES TERON LIGHTING #CPR24-L20.0 SERIES
M2	2,000 LUMEN LED 20 WATTS	24"-27" WALL MOUNTED LED LIGHTING FIXTURE, MOUNT +/-6" ABOVE MIRROR, SATIN NICKEL END CAPS, 3,000K, MATTE WHITE ACRYLIC DIFFUSER, DAMP LOCATION LISTED.	OXYGEN 837-524-24 OR APPROVED EQUIVALENT
O1	2,003 LUMEN LED 22.6 WATTS	6" DIA. 1-LED, 2,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN4-35-20-L06-WR-AR-LSS INDY #SD-30351-SD4-SAF PORTFOLIO #LD4B-20-D010 SERIES LIGHTOLIER #CL4-210 SERIES
O2	3034 LUMEN LED 34.7 WATTS	6" DIA. 1-LED, 3,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN6-35-30-L06-WR-AR-LSS INDY #SD-30351-SD4-SAF PORTFOLIO #LD6B-30-D010 SERIES LIGHTOLIER #CL4-210 SERIES
O3	4034 LUMEN LED 44.1 WATTS	6" DIA. 1-LED, 4,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN6-35-40-L06-WR-AR-LSS-EZ1 INDY #SD-30351-SD4-SAF PORTFOLIO #LD6B-40-D010 SERIES LIGHTOLIER #CL4-210 SERIES
O4	5,000 LUMEN LED 56 WATTS	6" DIA. 1-LED, 5,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN6-35-50-L06-WR-AR-LSS-EZ1 INDY #SD-30351-SD4-SAF PORTFOLIO #LD6B-50-D010 SERIES LIGHTOLIER #CL4-210 SERIES
P1	4,020 LUMEN LED AND 40 WATTS	8' LINEAR SUSPENDED DIRECT-ONLY PENDANT, FINAL SELECTION BY ARCHITECT, 3,500K, BOTTOM AT +/-11'-0" AFF, DIMMING RANGE FROM 100% TO 1% (OF FULL BRIGHTNESS).	ALIGHT ACS3 SERIES OR APPROVED EQUIVALENT
P2	4,000 LUMEN LED AND 41 WATTS	16" DIA. DOME PENDANT, FINAL SELECTION AND FINISH BY ARCHITECT, 3,500K, 41 DEGREE BEAM SPREAD, SUSPEND WITH AIRCRAFT AT +/-11'-0" AFF OR ACCORDING TO ARCHITECTURAL ELEVATIONS, DIMMING RANGE FROM 100% TO 1% (OF FULL BRIGHTNESS).	V2 MODO DUOMO LARGE PENDANT SERIES OR APPROVED EQUIVALENT
P3	3,266 LUMEN LED AND 46 WATTS	12" DIA. DOME PENDANT, FINAL SELECTION AND FINISH BY ARCHITECT, 3,500K, SUSPEND WITH AIRCRAFT AT +/-11'-0" AFF OR ACCORDING TO ARCHITECTURAL ELEVATIONS, DIMMING RANGE FROM 100% TO 1% (OF FULL BRIGHTNESS).	IMPACT TOP LIS, TIKI PENDANT SERIES OR APPROVED EQUIVALENT
R1	460 LUMEN/FT LED 5 WATTS/FT	12" RECESSED LINEAR SLOT, FLUSH MOUNT IN GYP. CEILING, 3,500K, 0-10V DIMMING DRIVER.	ALIGHT ACS SERIES OR APPROVED EQUIVALENT
R2	460 LUMEN/FT LED 5 WATTS/FT	8" RECESSED LINEAR SLOT, FLUSH MOUNT IN GYP. CEILING, 3,500K, 0-10V DIMMING DRIVER.	ALIGHT ACS SERIES OR APPROVED EQUIVALENT
R3	460 LUMEN/FT LED 5 WATTS/FT	4" RECESSED LINEAR SLOT, FLUSH MOUNT IN GYP. CEILING, 3,500K, 0-10V DIMMING DRIVER.	ALIGHT ACS SERIES OR APPROVED EQUIVALENT
T1	LED PAR38 18.5 WATTS	TRACK HEADS WITH COMPATIBLE TRACK ASSEMBLY, NUMBER OF HEADS AND LENGTH OF TRACK AS SHOWN (1/2" - 25" SPOTS WITH CROSS BLADE BAFFLE, 1/2" - 25" NARROW FLOODS), BLACK FINISH FOR HEADS AND TRACK, PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION, SUSPEND FROM STRUCTURE, COORDINATE WITH ARCHITECTURAL ELEVATIONS.	LIGHTING SERVICES INC. #SSL238 SERIES OR APPROVED EQUIVALENT

- SCHEDULE NOTES:**
- VERIFY LUMINAIRE FINISH COLOR WITH ARCHITECT AND OWNER.
 - COORDINATE MOUNTING WITH CEILING TYPE.
 - LED LUMINAIRES SHALL BE CR1 90 MINIMUM.
 - LED BOARDS SHALL MAINTAIN L70 PERFORMANCE AT 50,000 HOURS.
 - PROVIDE ALL NECESSARY SUPPORT HARDWARE AND ADAPTERS FOR EACH LUMINAIRE.
 - PROVIDE DIMMER CONTROL SWITCH FOR DIMMABLE LUMINAIRES FROM MANUFACTURER THAT IS COMPATIBLE WITH DIMMABLE BALLAST OR DRIVER.
 - REFER TO SPECIFICATION SECTION 26 51 00 FOR ADDITIONAL INFORMATION.
 - REFER TO CIRCUIT ASSIGNMENT FOR VOLTAGE.

GENERAL PROJECT NOTES

- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO SURVEY THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID. COORDINATE THE SITE SURVEY TIME WITH THE OWNER.
- WHERE REFERENCE IS MADE TO CODES OR GUIDELINES, THE ELECTRICAL CONTRACTOR SHALL REFER TO THE LATEST APPLICABLE FEDERAL, STATE, AND LOCAL EDITIONS OF THE CODES FOR THIS SITE LOCATION AND THE DIRECTION(S) OF THE LOCAL BRUNSWICK SCHOOL DISTRICT AND THE LOCAL AHJ.
- ALL MATERIALS INSTALLED SHALL BE EITHER U.L. OR THIRD PARTY LISTED.
- THE ELECTRICAL CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR OF ANY AREAS REQUIRING PATCHING. GENERAL CONTRACTOR SHALL PERFORM THE PATCHING. COORDINATE WORK REQUIRED WITH GENERAL CONTRACTOR PRIOR TO ANY CUTTING OF NEW OR EXISTING SURFACES.
- VERIFY ALL ELECTRICAL REQUIREMENTS FOR EQUIPMENT WITH THE MANUFACTURER AND ASSOCIATED TRADES PRIOR TO ROUGH IN OF ELECTRICAL WORK. REFER TO ALL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. COORDINATE EXACT LOCATION OF DEVICE OR JUNCTION BOX ROUGH-IN WITH ARCHITECTURAL ELEVATIONS AND CROSS CHECK WITH OTHER RELATED TRADES. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOADS WITH NAME PLATE DATA PRIOR TO THE ELECTRICAL ROUGH-IN.
- ALL ELECTRICAL WORK SHALL BE SUPPORTED PER THE SPECIFICATIONS OF THIS PROJECT AND APPLICABLE NEC SECTIONS.
- CONDUIT ROUTINGS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL VERIFY ALL ROUTING LOCATIONS WITH THE OWNER, OTHER TRADES IN THE SAME AREA AND THE ARCHITECTS BEFORE ROUGH-IN.
- THE CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURE VOLTAGES AND LENGTHS WITH THE DRAWINGS, BUILDING CONDITIONS AND SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT LIGHTING FIXTURES FOR THE TYPE OF CEILING OR WALL AS SPECIFIED IN THE ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF FIXTURE CATALOG NUMBER GIVEN. VERIFY BY REVIEWING ARCH. FINISH SCHEDULES WITH THE GENERAL CONTRACTOR PRIOR TO ORDERING FIXTURES.
- ALL LIGHTING FIXTURES INSTALLED UNDER THIS PROJECT SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF ASTM C636. NOT LIMITED TO BUT INCLUDING WIRE SIZE, METHOD OF ATTACHMENT AND VERTICAL ALIGNMENT.
- ALL RECEPTACLES SHALL BE INSTALLED WITH THE GROUND POLE UP.
- FEEDER AND BRANCH CIRCUITS SHOWN ARE BASED ON 'EMT' CONDUIT AND THREE CURRENT CARRYING CONDUCTORS BASED ON 75 DEGREE C' INSULATION. ELECTRICAL CONTRACTOR SHALL ADJUST CONDUIT SIZE IF OTHER 'EMT' CONDUIT IS USED. ELECTRICAL CONTRACTOR SHALL ADJUST WIRE SIZE FOR TERMINATIONS AND/OR EQUIPMENT THAT HAVE A LOWER TEMPERATURE RATING THAN 75°C. ELECTRICAL CONTRACTOR SHALL ADJUST WIRE SIZE FOR INSTALLATION IN SPACES WITH AN AMBIENT TEMPERATURE HIGHER THAN 90° C OR EXPOSED TO THE ELEMENTS SUCH AS ON ROOF TOPS. COORDINATE WITH THE EQUIPMENT INSTALLER TO DETERMINE THE TEMPERATURE RATING OF THE EQUIPMENT AND THE TERMINATION LUGS. BASE WIRE SIZE ON THE MORE STRINGENT TEMPERATURE RATING.
- MAINTAIN ACCESS TO ALL EQUIPMENT OF OTHER TRADES FOR CODE REQUIRED CLEARANCE AND CLEARANCE FOR MAINTAINING THE EQUIPMENT WITH ACCESS FROM BELOW WHEN LOCATED ABOVE CEILING. COORDINATE WITH ALL TRADES PRIOR TO THE ROUGH-IN OF ALL CONDUITS, CABLES AND SUPPORT SYSTEMS. IF ACCESS TO EQUIPMENT IS HINDERED BY CONDUIT, CABLES, OR ELECTRICAL SUPPORT SYSTEMS THAT ARE NOT NECESSARY TO THE WORK BE DONE AT NO ADDITIONAL EXPENSE TO THE OWNER OR OTHER TRADES.
- ALL RECEPTACLES NOTED TO BE GFI SHALL FUNCTION FOR THAT DEVICE AND NOT AFFECT THE BRANCH CIRCUIT UNLESS INDICATED OTHERWISE. ALL RECEPTACLES LOCATED WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFI TYPE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE HVAC CONTRACTOR FOR THE LOCATION TO RECEIVE POWER AND SIGNAL ALARMS FOR THE TEMPERATURE CONTROL SYSTEM, AND DAMPER OPERATION, LINE VOLTAGE AND LOW VOLTAGE WIRING BEYOND THE PANELBOARD AND FIRE ALARM JUNCTION BOX IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS NOTED OTHERWISE. TEMPERATURE CONTROL WIRING SHALL ORIGINATE AT THE PANELBOARD NOTED WITH HVAC CONTROL CIRCUIT BREAKERS.
- SYNCHRONIZE FIRE ALARM STROBES, WHEN MORE THAN ONE IS VISIBLE FROM ANY ONE LOCATION.
- THE ELECTRICAL OPERATING AND MAINTENANCE MANUAL SHALL INCLUDE THE MANUFACTURERS STANDARD MATERIALS (ORIGINAL MANUALS OR WRITTEN) FOR OPERATION AND MAINTENANCE OF THE ELECTRICAL EQUIPMENT INSTALLED ON THIS PROJECT. THE O&M MANUALS SHALL ALSO INCLUDE A COPY OF THE APPROVED SHOP DRAWINGS, INCLUDING WIRING DIAGRAMS SPECIFIC FOR THIS PROJECT AND COPIES OF ALL CERTIFICATIONS OF INSTALLATION SUCH AS FOR FIRE ALARM, L.P.S. SYSTEM, I.T. SYSTEMS, ETC. METHOD OF ASSEMBLY OF THE MANUAL SHALL BE IN ONE (1) THREE-RING BINDER (MAX. 3") WITH DIVIDERS. MANUALS NOT SUBMITTED IN THIS METHOD WILL BE REJECTED WITHOUT REVIEW.
- PROVIDE ARC FLASH LABELING ON NEW EQUIPMENT. COORDINATE METHOD OF LABELING WITH OWNERS STANDARD PRACTICES. LABELS ON OR IN THE EQUIPMENT ENCLOSURE. LABELS SHALL MEET NEW 70E REQUIREMENTS.
- THERE SHALL BE NO GAPS OR OPEN SPACES GREATER THAN 0.25" BETWEEN A RECESSED BOX AND THE WALL SURFACE PER NEC 314.21. THE FRONT EDGE OF A BOX OR EXTENSION RING SHALL NOT SET BACK MORE THAN "FROM THE FACE OF THE FINISHED SURFACE PER NEC 314.20.
- RECEPTACLES SHALL BE MOUNTED WITH THE YOKE OR STRAP HELD RIGIDLY AGAINST THE BOX OR COVER OR IF THE BOX IS SET BACK PER NEC 314.21 THE YOKE OR STRAP SHALL BE HELD RIGIDLY AGAINST THE FINISHED SURFACE WHEN COMPLETE THE FACE OF THE RECEPTACLE SHALL PROJECT A MINIMUM OF 0.015" FROM METAL FACEPLATES. PER NEC 406.5.
- COORDINATE ALL ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR TO MAINTAIN THE ROOF WARRANTY. COMBINE PENETRATIONS WHERE POSSIBLE WITH OTHER TRADES.
- WHERE NOT INSTALLED IN THE CABLE TRAY OR 'J' HOOKS, LOW VOLTAGE WIRE SHALL BE SUPPORTED FROM STRUCTURE AND PROPERLY SECURED. SUPPORTS SHALL BE A MAXIMUM OF 6" APART AND A MAXIMUM OF 12" FROM WALL PENETRATIONS/SUPPORTS. DO NOT SUPPORT WIRE FROM CEILING GRID, DUCT WORK, OR WORK BY OTHER TRADES.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INFORMATION NECESSARY, FROM FIELD OBSERVATIONS AND MEASUREMENTS OF THE CONSTRUCTION OF THIS PROJECT, TO ALLOW FOR THE SHORT CIRCUIT AND ARC FLASH STUDIES TO BE PERFORMED.
- FURNISH ALL MATERIALS, LABOR AND EQUIPMENT FOR THE INSTALLATION OF SEISMIC BRACING AND RESTRAINTS FOR EARTHQUAKE LOADS AS PRESCRIBED BY THE LATEST ADOPTED VERSION OF THE NORTH CAROLINA STATE BUILDING CODE. SEISMIC DESIGN REQUIREMENTS, ALL ELECTRICAL COMPONENTS WHICH MUST REMAIN ACTIVE AFTER A SEISMIC EVENT OR COULD HAVE AN IMPACT ON THOSE COMPONENTS SHALL BE CERTIFIED BY THE MANUFACTURER TO FUNCTION PROPERLY DURING AND AFTER A SEISMIC CONDITION. THESE COMPONENTS INCLUDE, BUT NOT LIMITED TO CONDUITS, CABLE TRAY, EQUIPMENT, TRANSFORMERS, ELECTRICAL PANELS, ETC. DESIGN CALCULATIONS AND DETAILS FOR THE RESTRAINT METHODS, SHALL BE SUBMITTED FOR REVIEW. IN ADDITION, SUBMIT A LETTER, CERTIFYING THAT THE INSTALLATIONS CONFORM TO THE EQUIPMENT MANUFACTURERS RECOMMENDATION AND THE LATEST ADOPTED VERSION OF THE STATE BUILDING CODE REQUIREMENTS FOR SEISMIC COMPLIANCE. THESE COMPONENTS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA.
- COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE EXACT NUMBER AND LOCATION OF SPRINKLER SYSTEM FIRE ALARM CONNECTION POINTS SUCH AS TAMPER AND SWITCHES, INCLUDING DEVICES ON THE EXTERIOR OF THE BUILDING.
- CONNECT INVERTERS AHEAD OF ALL SWITCHES AND LIGHTING CONTROLS.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING FIXTURE CEILING MOUNTED.		JUNCTION BOX, PROVIDE STANDARD 4" SQUARE BY 1-1/2" DEEP BOX, ION, CEILING OR WALL MOUNTED AT 18" AFF. ION, VERIFY MOUNTING HEIGHT IN THE FIELD. PROVIDE 3/4" C. UP TO CEILING. VERIFY EXACT LOCATION IN THE FIELD.
	LIGHTING FIXTURE PENDANT OR WALL MOUNTED.		JUNCTION BOX AND CONNECTION TO EQUIPMENT OR TERMINAL STRIPS.
	BACK TO WALL OR END MOUNTED. ARROWS AS INDICATED ON DRAWINGS. SEE LIGHTING FIXTURE SCHEDULE.		DUAL TECHNOLOGY (US AND PIR) OCCUPANCY SENSOR SWITCH WITH DIMMING SELECTABLE MODE SET TO MANUAL ON VACANCY OFF. 44" A.F.F.
	LIGHTING FIXTURE CEILING MOUNTED.		DUAL TECHNOLOGY (US AND PIR) OCCUPANCY SENSOR SWITCH. SELECTABLE MODES SET TO MANUAL ON VACANCY OFF. 44" A.F.F.
	EXTERIOR LIGHTING FIXTURE WALL MOUNTED.		CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY (U.S. AND PIR).
	BATTERY BACKUP EMERGENCY LIGHTING FIXTURE.		DAYLIGHT HARVESTING SENSOR, CEILING MOUNTED AS DIRECTED BY MANUFACTURER. TO SENSE DAYLIGHT FROM WINDOWS.
	FIXTURE DESIGNATION, TYPICAL FOR ALL FIXTURES OF THE SAME SHAPE IN THE ROOM.		SINGLE POLE SWITCH, MOUNTED AT 44" AFF.
	DUPLEX RECEPTACLE, MOUNTED 44" AFF., 8" ABOVE COUNTER, OR 2" ABOVE BACKSPASH.		MODIFIERS FOR SWITCHES: 3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH D = DIMMER SWITCH a.b.c = MULTIPLE SWITCH LEGS
	DUPLEX RECEPTACLE, MOUNTED 18" AFF.		SPECIAL NEMA CONFIGURATION RECEPTACLE, MOUNTED AS NOTED.
	TWO DUPLEX RECEPTABLES IN 2-GANG BOX, TOP 44" AFF., 8" ABOVE COUNTER, OR 2" ABOVE BACKSPASH.		MODIFIERS FOR RECEPTACLES: G = GROUND FAULT INTERRUPTER WP = WEATHERPROOF EWC = ELECTRICAL WATER COOLER S = SAFETY TYPE DUPLEX RECEPTACLE USB = DUPLEX RECEPTACLE WITH USB POWER PORTS. SB = COMBINATION RECEPTACLE, DATA PORTS FOR SMART BOARD. TR = TAMPER-RESISTANT RECEPTACLE TV = COMBINATION TV RECEPTACLE, ANTENNA/ DATA PORTS. SEE DETAIL.
	TWO DUPLEX RECEPTABLES IN 2-GANG BOX, MOUNTED 18" AFF.		SOUND SYSTEM SPEAKER, CEILING MOUNTED. COORDINATE CABLING REQUIREMENTS WITH VENDOR. SEE SOUND RISER FOR DETAILS.
	SPECIAL NEMA CONFIGURATION RECEPTACLE, MOUNTED AS NOTED.		HANGING MICROPHONE, 4" SQUARE BOX, CEILING MOUNTED. SEE SOUND RISER FOR DETAILS.
	CIRCUIT BREAKER.		SOUND SYSTEM FLOOR BOX, 12"x12"x6" WITH HINGED COVER, MOUNTED FLUSH IN FLOOR.
	SPECIAL CONNECTION; REFER TO CONNECTION SCHEDULE.		SOUND SYSTEM MULTI-PLUG JACK OUTLET, 12"x12"x6" WITH HINGED COVER, WALL MOUNTED 42" AFF.
	PANELBOARD SURFACE MOUNTED, TOP 6" - 6" AFF.		SOUND SYSTEM WALL BOX, 12"x12"x6" WITH HINGED COVER, WALL MOUNTED 42" AFF.
	MANUAL MOTOR STARTER.		PUBLIC ADDRESS SPEAKER, WALL MOUNTED 9'-0" AFF. WEATHER PROOF WERE "WP" SHOWN ADJACENT TO SYMBOL.
	FUSED HEAVY DUTY SAFETY SWITCH.		PUBLIC ADDRESS RECESSED VOLUME CONTROL, WALL MOUNTED 44" AFF.
	ENCLOSED CIRCUIT BREAKER. F = FLUSH MOUNTED.		INTERCOM CALL BUTTON, WALL MOUNTED 44" AFF.
	DRY TYPE TRANSFORMER.		VIDEO CAMERA OUTLET BOX, WALL MOUNTED 10'-0" AFF. CEILING MOUNTED WHERE INDICATED.
	BRANCH OR FEEDER CIRCUIT HOMERUN. SUBSCRIPT DENOTES ELECTRICAL EQUIPMENT AND OVERCURRENT PROTECTION DEVICE NUMBER. PANEL BOARD AND NUMBER NEXT TO A DEVICE INDICATES THE CIRCUIT ASSIGNMENT FOR THAT DEVICE.		CARD ACCESS OUTLET BOX, WALL MOUNTED
	WIRING SYSTEM BELOW FLOOR OR BELOW GRADE.		COMMUNICATIONS OUTLET MOUNTED 18" AFF WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.
	WIRING SYSTEM CONCEALED ABOVE CEILING OR IN WALL.		COMMUNICATIONS OUTLET MOUNTED 44" AFF, OR 8" ABOVE COUNTER, OR 2" ABOVE BACKSPASH, WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.
	FIRE ALARM CONTROL PANEL.		CEILING MOUNTED OUTLET BOX FOR WIRELESS ACCESS POINT DEVICE.
	FIRE ALARM REMOTE ANNUNCIATOR PANEL.		FLOOR BOX, STEEL W/ EPOXY COATING, 4-GANG, 3" DEEP POUR, FLUSH MOUNTED IN EXISTING CONCRETE FLOOR. PROVIDE RECESSED ACTIVATION COVERPLATE. PROVIDE (2) 20A, 125V DUPLEX RECEPTACLE AND 3/4" CONDUIT FROM POWER COMPARTMENT TO J-BOX ABOVE ACC. CEILING. PROVIDE (1) 1" CONDUIT FROM LV COMPARTMENT TO ABOVE ACCESSIBLE CEILING CUT AND PATCH EXISTING CONCRETE FLOOR FOR NEW CONDUIT TRENCH FROM FLOOR BOX TO ACC. WALL. HUBBELL #CFB3530CR2-24CVXRX22-HBLFBMP04FBMPR02FBMPBK. CSBA. PROVIDE R.S. DESIGNATION PT INDICATES FIRE-RATED POKE-THROUGH STYLE.
	FIRE ALARM MANUAL PULL STATION, MOUNTED 44" AFF.		ABOVE FINISHED FLOOR
	FIRE ALARM AUTOMATIC SMOKE DETECTOR. ER = ELEVATOR RECALL		CONDUIT
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		3-POLE OR 3-PHASE
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		OVERCURRENT PROTECTION
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		GROUND FAULT PROTECTION
	FIRE ALARM REMOTE INDICATING LIGHT WALL MOUNT 12" BELOW CEILING.		CIRCUIT BREAKER
	FIRE ALARM VISUAL (STROBE ONLY) APPLIANCE, WALL MOUNTED AT 80" AFF, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UNON, C = CEILING MOUNTED.		GROUND
	FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, WALL MOUNTED AT 80" AFF, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UNON, C = CEILING MOUNTED.		AMPERES INTERRUPTING CAPACITY
	MAGNETIC DOOR HOLD-OPEN DEVICE, RELEASED BY FIRE ALARM SIGNAL, THROUGH LOCAL SMOKE DETECTOR. PROVIDE WITH CHAIN EXTENDERS OR APPROPRIATE MOUNTING AS NECESSARY.		MAIN CIRCUIT BREAKER
	MONITOR MODULE FOR COMMUNICATION TIE-IN OF KITCHEN HOOD FIRE SUPPRESSION SYSTEM WITH FIRE ALARM SYSTEM.		MAIN LUGS ONLY
	FIRE ALARM SYSTEM FLOW SWITCH CONNECTION, AND ASSOCIATED MONITORING MODULE.		TELECOMMUNICATIONS MAIN GROUND BAR
	FIRE ALARM SYSTEM TAMPER SWITCH CONNECTION, AND ASSOCIATED MONITORING MODULE.		UNLESS OTHERWISE NOTED
	WEATHERPROOF OR WEATHER RESISTANT		NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

ELECTRICAL SYSTEM DATA

ELECTRICAL SYSTEMS AND EQUIPMENT

Method of Compliance:
 Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting Schedule
 lamp type required in fixture: SEE LIGHTING FIXTURE SCHEDULE
 number of lamps in fixture: SEE LIGHTING FIXTURE SCHEDULE
 ballast type used in fixture: SEE LIGHTING FIXTURE SCHEDULE
 number of ballasts in fixture: SEE LIGHTING FIXTURE SCHEDULE
 total wattage per fixture: SEE LIGHTING FIXTURE SCHEDULE
 total interior wattage specified vs. allowed: 59,100 W vs 87,800 W
 total exterior wattage specified vs. allowed: 5,110 W vs 5,630 W

Additional Prescriptive Compliance:
 506.2.1 More Efficient Mechanical Equipment
 506.2.2 Reduced Lighting Power Density
 506.2.3 Energy Recovery Ventilation Systems
 506.2.4 Higher Efficiency Service Water Heating
 506.2.5 On-Site Supply of Renewable Energy
 506.2.6 Automatic Daylighting Control Systems

DESIGNER STATEMENT:
 To the best of my knowledge and belief, the design for this building complies with the electrical system and equipment requirements of the North Carolina State Energy Conservation Code (2012).



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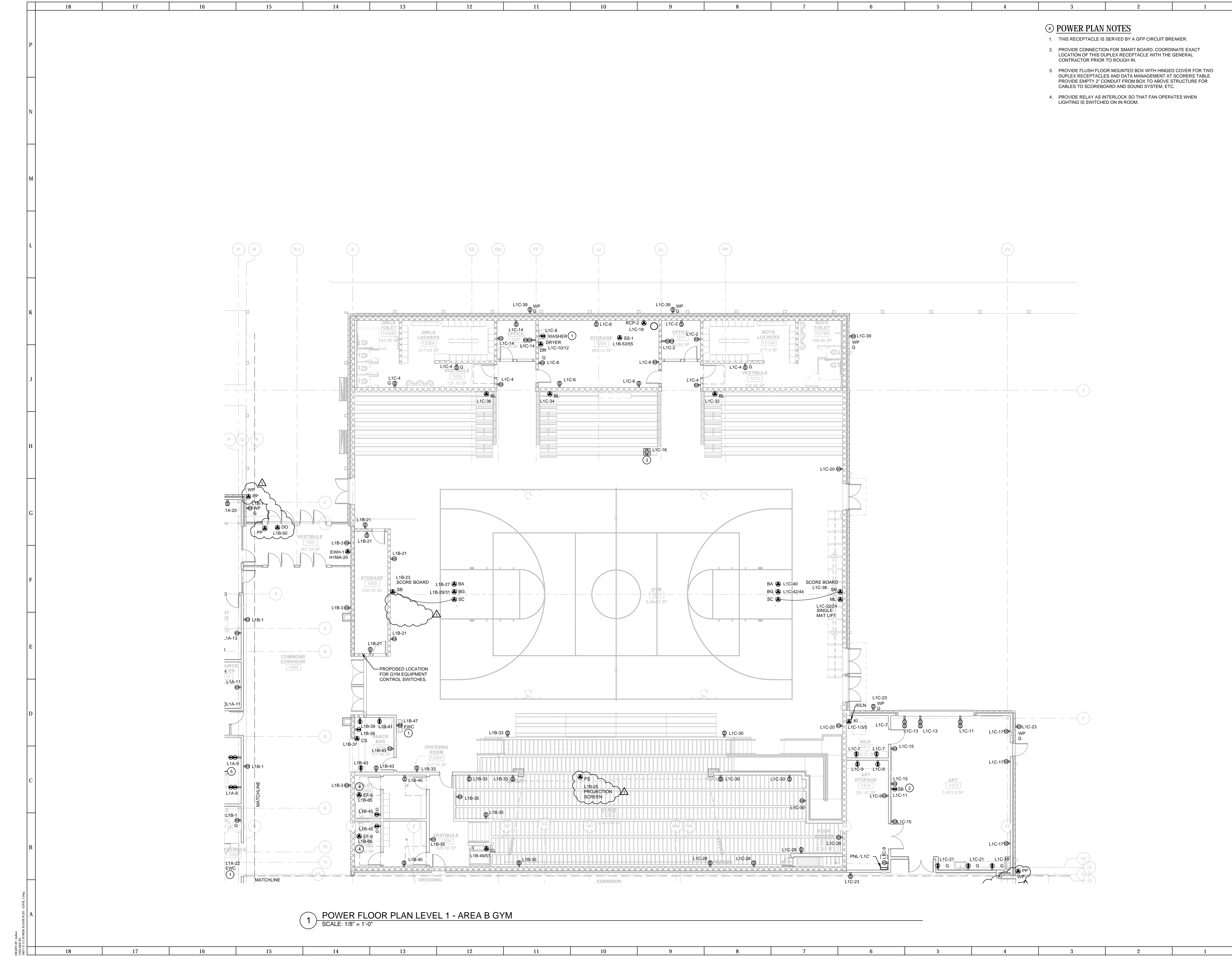
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1 POWER FLOOR PLAN LEVEL 1 - AREA B GYM
SCALE: 1/8" = 1'-0"

POWER PLAN NOTES

- THIS RECEPTACLE IS SERVED BY A GFP CIRCUIT BREAKER.
- PROVIDE CONNECTION FOR SMART BOARD. COORDINATE EXACT LOCATION OF THIS DUPLEX RECEPTACLE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN.
- PROVIDE FLUSH FLOOR MOUNTED BOX WITH HINGED COVER FOR TWO DUPLEX RECEPTACLES AND DATA MANAGEMENT AT SCORERS TABLE. PROVIDE EMPTY 2" CONDUIT FROM BOX TO ABOVE STRUCTURE FOR CABLES TO SCOREBOARD AND SOUND SYSTEM, ETC.
- PROVIDE RELAY AS INTERLOCK SO THAT FAN OPERATES WHEN LIGHTING IS SWITCHED ON IN ROOM.

ARCHITECT



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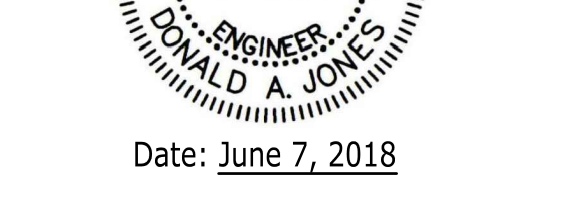
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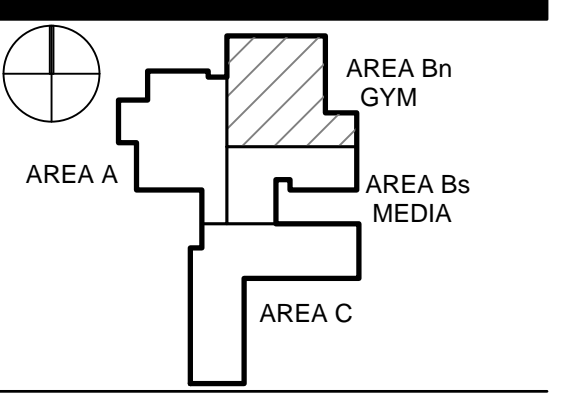
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TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE
WINNABOW, NC 28479



No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS

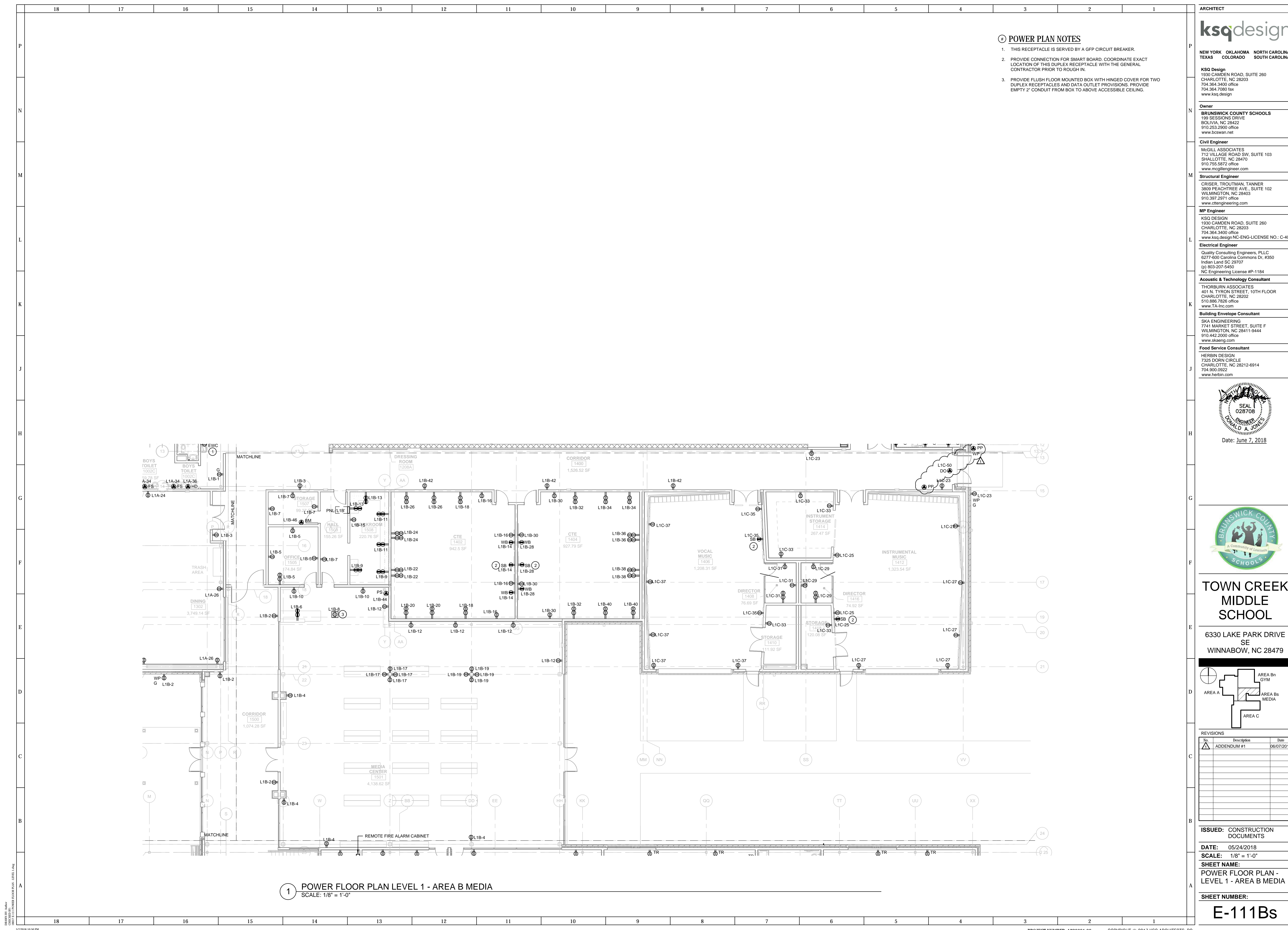
DATE: 05/24/2018

SCALE: 1/8" = 1'-0"

SHEET NAME: POWER FLOOR PLAN - LEVEL 1 - AREA B GYM

SHEET NUMBER:

E-111Bn



POWER PLAN NOTES

1. THIS RECEPTACLE IS SERVED BY A GFP CIRCUIT BREAKER.
2. PROVIDE CONNECTION FOR SMART BOARD. COORDINATE EXACT LOCATION OF THIS DUPLEX RECEPTACLE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN.
3. PROVIDE FLUSH FLOOR MOUNTED BOX WITH HINGED COVER FOR TWO DUPLEX RECEPTACLES AND DATA OUTLET PROVISIONS. PROVIDE EMPTY 2" CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING.

1 POWER FLOOR PLAN LEVEL 1 - AREA B MEDIA
SCALE: 1/8" = 1'-0"

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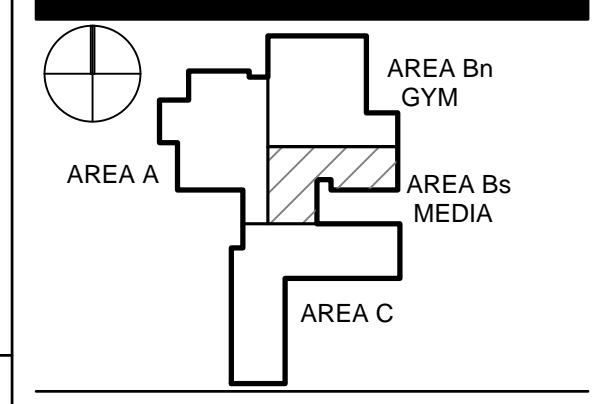


Date: June 7, 2018



TOWN CREEK MIDDLE SCHOOL

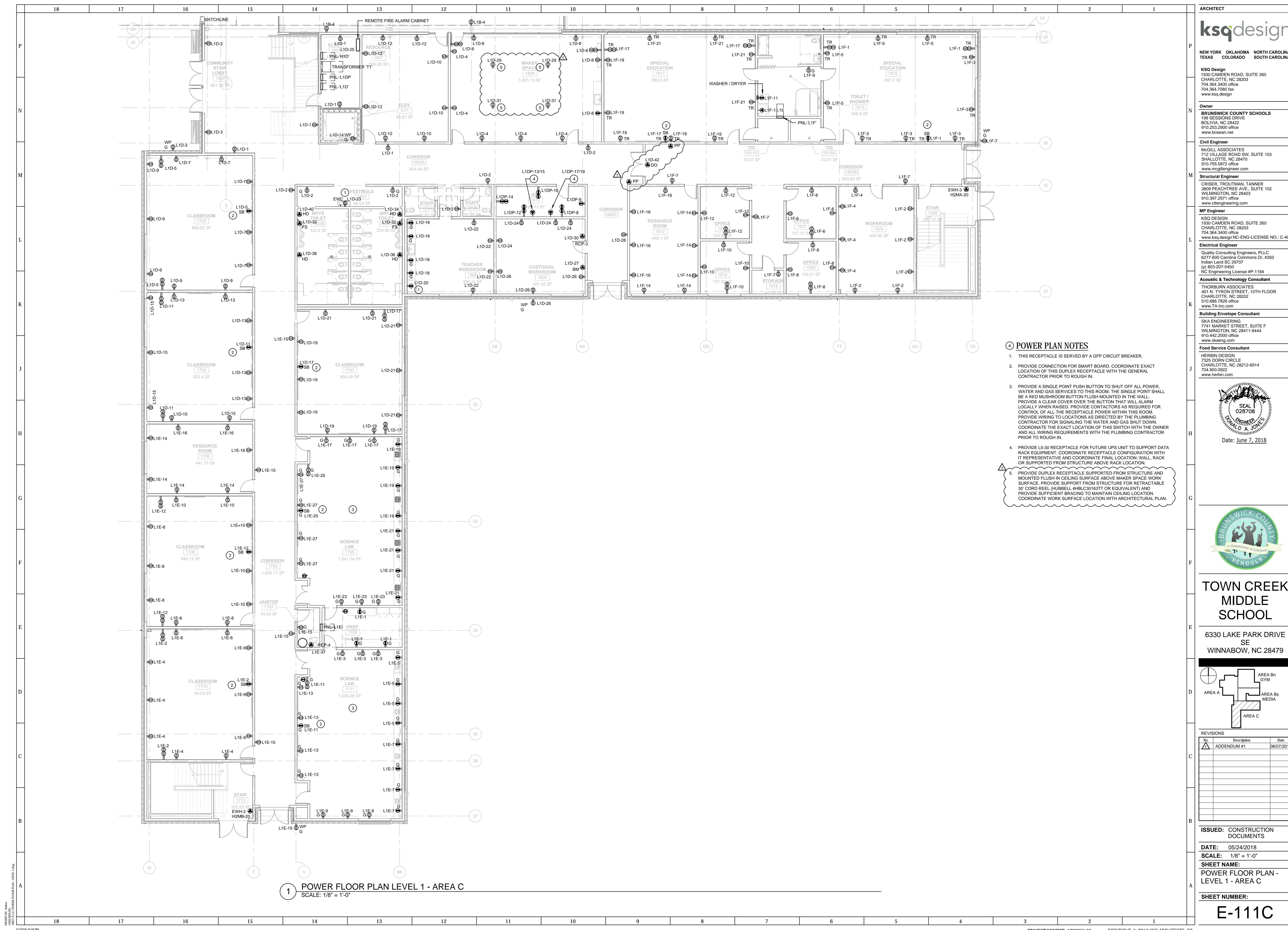
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No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME:
 POWER FLOOR PLAN - LEVEL 1 - AREA B MEDIA
SHEET NUMBER:

E-111Bs



1 POWER FLOOR PLAN LEVEL 1 - AREA C
SCALE: 1/8" = 1'-0"

- POWER PLAN NOTES**
- THIS RECEPTACLE IS SERVED BY A GFF CIRCUIT BREAKER.
 - PROVIDE CONNECTION FOR SMART BOARD. COORDINATE EXACT LOCATION OF THIS DUPLEX RECEPTACLE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN.
 - PROVIDE A SINGLE POINT PUSH BUTTON TO SHUT OFF ALL POWER, WATER AND GAS SERVICES TO THIS ROOM. THE SINGLE POINT SHALL BE A RED MUSHROOM BUTTON FLUSH MOUNTED IN THE WALL. PROVIDE A CLEAR COVER OVER THE BUTTON THAT WILL ALARM LOCALLY WHEN RAISED. PROVIDE CONTACTORS AS REQUIRED FOR CONTROL OF ALL THE RECEPTACLE POWER WITHIN THIS ROOM. PROVIDE WIRING TO LOCATIONS AS DIRECTED BY THE PLUMBING CONTRACTOR FOR SIGNALING THE WATER AND GAS SHUT DOWN. COORDINATE THE EXACT LOCATION OF THIS SWITCH WITH THE OWNER AND ALL WIRING REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
 - PROVIDE L5-30 RECEPTACLE FOR FUTURE UPS UNIT TO SUPPORT DATA RACK EQUIPMENT. COORDINATE RECEPTACLE CONFIGURATION WITH IT REPRESENTATIVE AND COORDINATE FINAL LOCATION: WALL, RACK OR SUPPORTED FROM STRUCTURE ABOVE RACK LOCATION.
 - PROVIDE DUPLEX RECEPTACLE SUPPORTED FROM STRUCTURE AND MOUNTED FLUSH IN CEILING SURFACE ABOVE MAKER SPACE WORK SURFACE. PROVIDE SUPPORT FROM STRUCTURE FOR RETRACTABLE 30' CORD REEL, HUBBELL #HBLC01631T (OR EQUIVALENT) AND PROVIDE SUFFICIENT BRACING TO MAINTAIN CEILING LOCATION. COORDINATE WORK SURFACE LOCATION WITH ARCHITECTURAL PLAN.

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 Date: June 7, 2018

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 Community of Learners

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 6330 LAKE PARK DRIVE SE
 WINNABOW, NC 28479

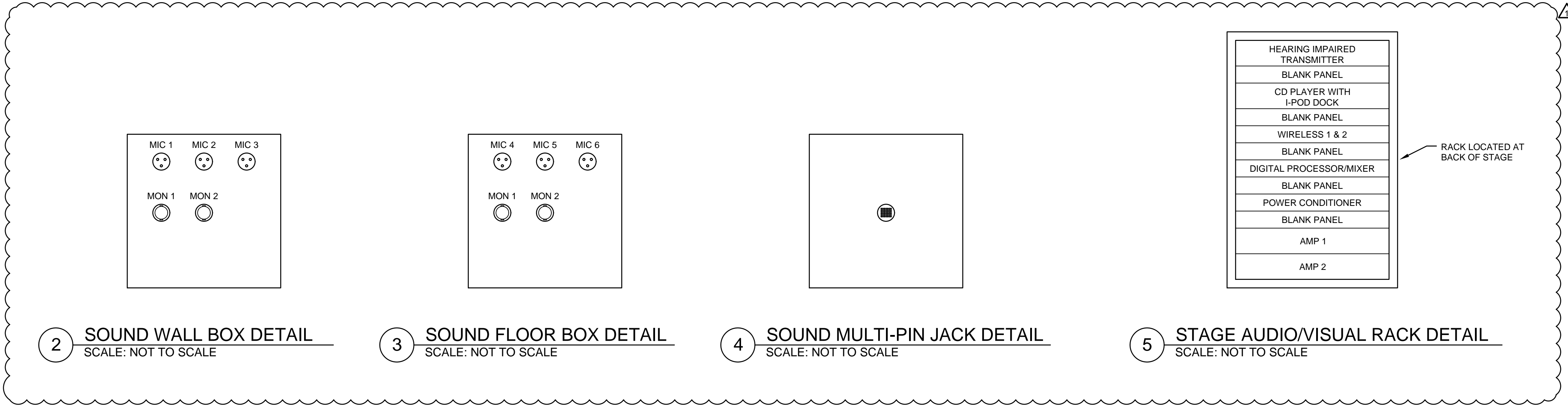
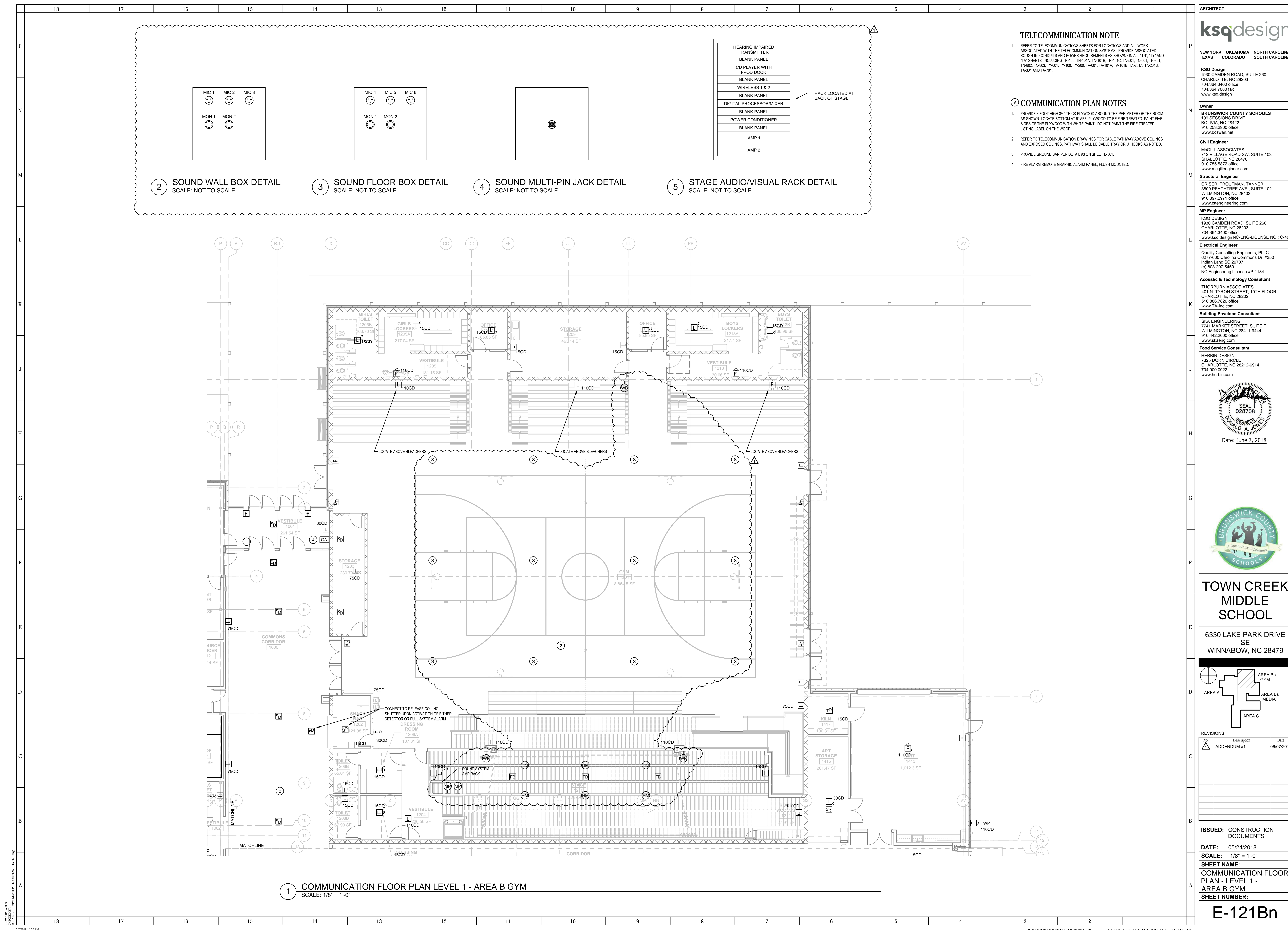
AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: POWER FLOOR PLAN - LEVEL 1 - AREA C
SHEET NUMBER:

E-111C

PROJECT NUMBER: 1720601.00 COPYRIGHT © 2017 KSO ARCHITECTS, PC



TELECOMMUNICATION NOTE

- REFER TO TELECOMMUNICATIONS SHEETS FOR LOCATIONS AND ALL WORK ASSOCIATED WITH THE TELECOMMUNICATION SYSTEMS. PROVIDE ASSOCIATED ROUGH-IN, CONDUITS AND POWER REQUIREMENTS AS SHOWN ON ALL "TY" AND "T4" SHEETS, INCLUDING TN-100, TN-101A, TN-101B, TN-101C, TN-501, TN-601, TN-801, TN-802, TN-803, TY-001, TY-100, TY-200, TA-001, TA-101A, TA-101B, TA-201A, TA-201B, TA-301 AND TA-701.

COMMUNICATION PLAN NOTES

- PROVIDE 8 FOOT HIGH 3/4" THICK PLYWOOD AROUND THE PERIMETER OF THE ROOM AS SHOWN. LOCATE BOTTOM AT 3' AFF. PLYWOOD TO BE FIRE TREATED, PAINT FIVE SIDES OF THE PLYWOOD WITH WHITE PAINT. DO NOT PAINT THE FIRE TREATED LISTING LABEL ON THE WOOD.
- REFER TO TELECOMMUNICATION DRAWINGS FOR CABLE PATHWAY ABOVE CEILING AND EXPOSED CEILING. PATHWAY SHALL BE CABLE TRAY OR J HOOKS AS NOTED.
- PROVIDE GROUND BAR PER DETAIL #3 ON SHEET E-501.
- FIRE ALARM REMOTE GRAPHIC ALARM PANEL, FLUSH MOUNTED.

1 COMMUNICATION FLOOR PLAN LEVEL 1 - AREA B GYM
SCALE: 1/8" = 1'-0"

ARCHITECT
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www.skaeng.com

Food Service Consultant
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7325 DORN CIRCLE
CHARLOTTE, NC 28212-6914
704.900.0922
www.herbin.com

SEAL
028708
ENGINEER
A. JONES
Date: June 7, 2018

BRUNSWICK COUNTY SCHOOLS
A Community of Learners

TOWN CREEK MIDDLE SCHOOL
6330 LAKE PARK DRIVE SE
WINNABOW, NC 28479

AREA A
AREA Bn GYM
AREA Bs MEDIA
AREA C

No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B GYM
SHEET NUMBER: E-121Bn

PROJECT NUMBER: 1720601.00 COPYRIGHT © 2017 KSO ARCHITECTS, PC

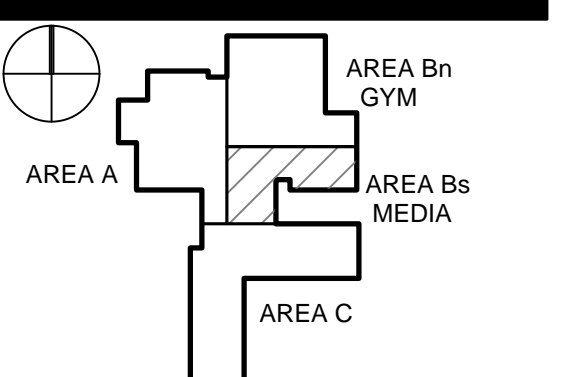


Date: June 7, 2018



TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE
WINNABOW, NC 28479



No.	Description	Date
Δ	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"

SHEET NAME:
COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B MEDIA
SHEET NUMBER:

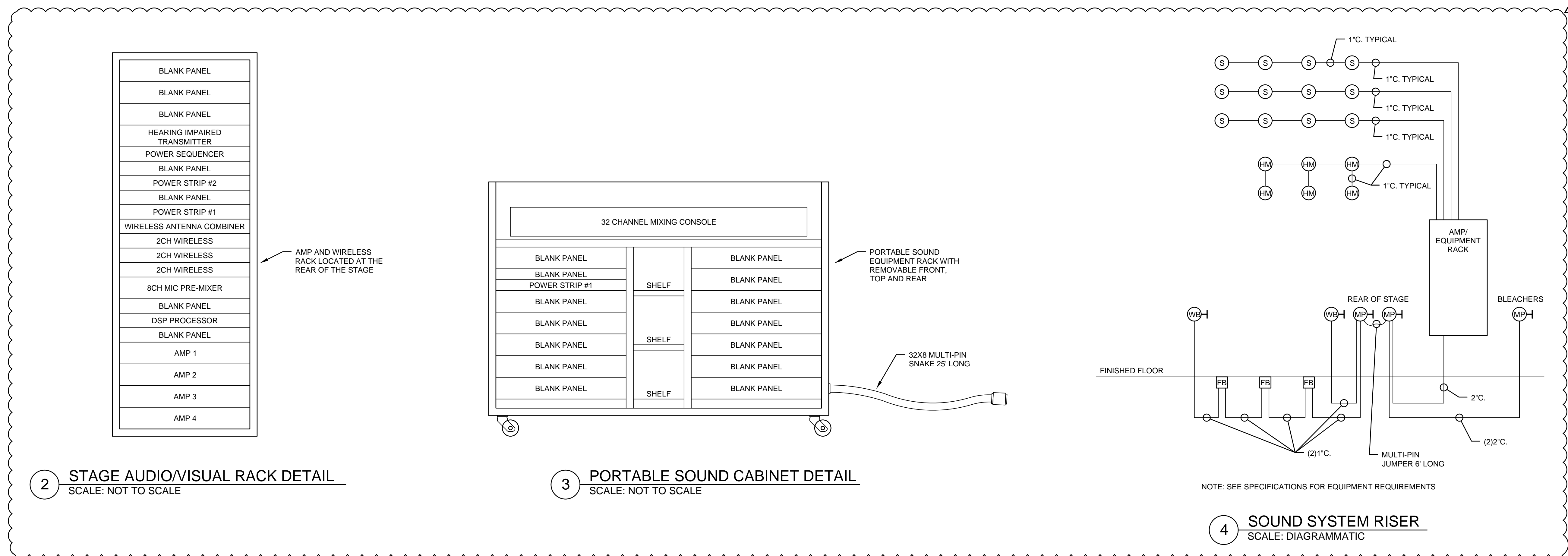
E-121Bs

TELECOMMUNICATION NOTE

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PROVIDE ASSOCIATED ROUGH-IN, CONDUITS AND POWER REQUIREMENTS AS SHOWN ON ALL "TY" AND "TA" SHEETS, INCLUDING TN-100, TN-101A, TN-101B, TN-101C, TN-101D, TN-101E, TN-101F, TN-101G, TN-101H, TN-101I, TN-101J, TN-101K, TN-101L, TN-101M, TN-101N, TN-101O, TN-101P, TN-101Q, TN-101R, TN-101S, TN-101T, TN-101U, TN-101V, TN-101W, TN-101X, TN-101Y, TN-101Z, TN-101AA, TN-101AB, TN-101AC, TN-101AD, TN-101AE, TN-101AF, TN-101AG, TN-101AH, TN-101AI, TN-101AJ, TN-101AK, TN-101AL, TN-101AM, TN-101AN, TN-101AO, TN-101AP, TN-101AQ, TN-101AR, TN-101AS, TN-101AT, TN-101AU, TN-101AV, TN-101AW, TN-101AX, TN-101AY, TN-101AZ, TN-101BA, TN-101BB, TN-101BC, TN-101BD, TN-101BE, TN-101BF, TN-101BG, TN-101BH, TN-101BI, TN-101BJ, TN-101BK, TN-101BL, TN-101BM, TN-101BN, TN-101BO, TN-101BP, TN-101BQ, TN-101BR, TN-101BS, TN-101BT, TN-101BU, TN-101BV, TN-101BW, TN-101BX, TN-101BY, TN-101BZ, TN-101CA, TN-101CB, TN-101CC, TN-101CD, TN-101CE, TN-101CF, TN-101CG, TN-101CH, TN-101CI, TN-101CJ, TN-101CK, TN-101CL, TN-101CM, 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COMMUNICATION PLAN NOTES

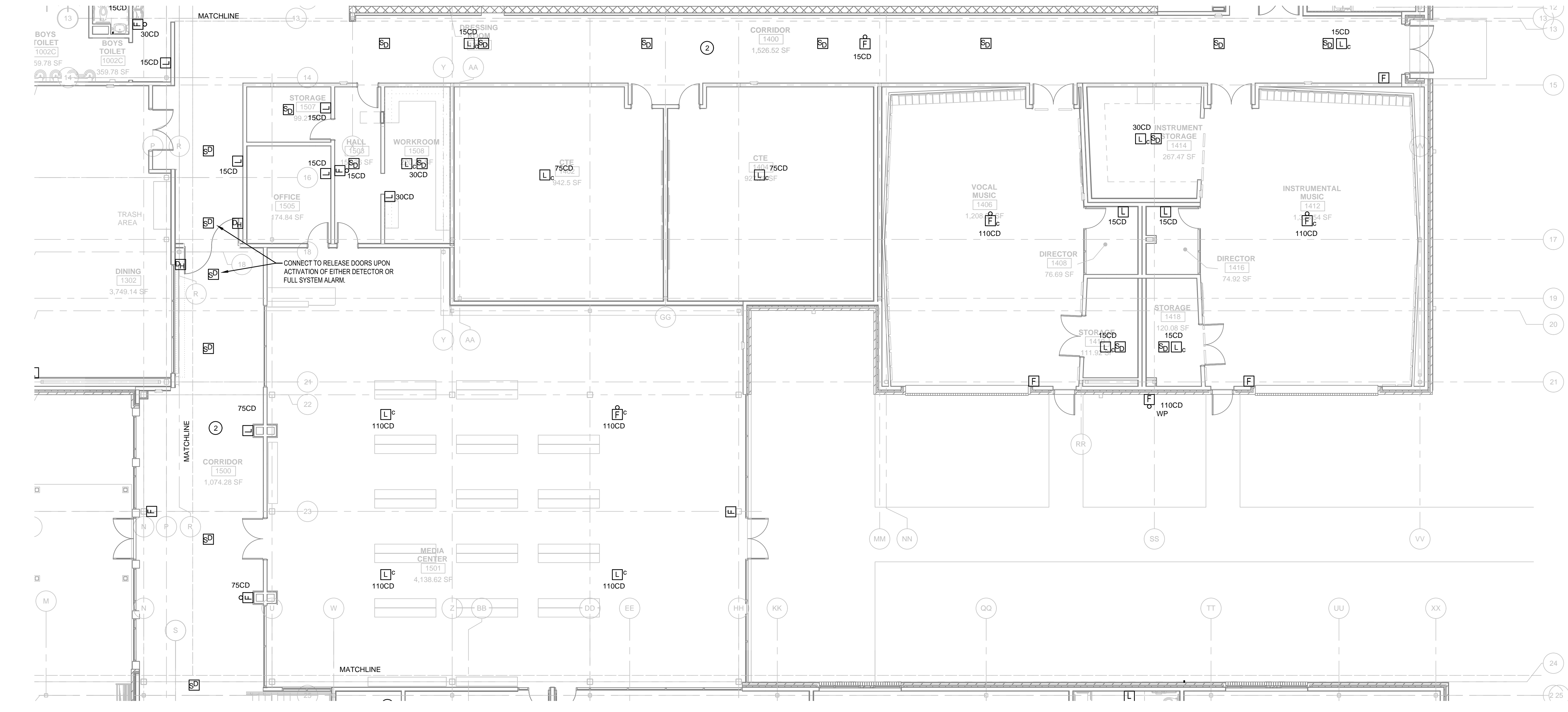
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- REFER TO TELECOMMUNICATION DRAWINGS FOR CABLE PATHWAY ABOVE CEILING AND EXPOSED CEILING. PATHWAY SHALL BE CABLE TRAY OR J HOOKS AS NOTED.



2 STAGE AUDIO/VISUAL RACK DETAIL
SCALE: NOT TO SCALE

3 PORTABLE SOUND CABINET DETAIL
SCALE: NOT TO SCALE

4 SOUND SYSTEM RISER
SCALE: DIAGRAMMATIC

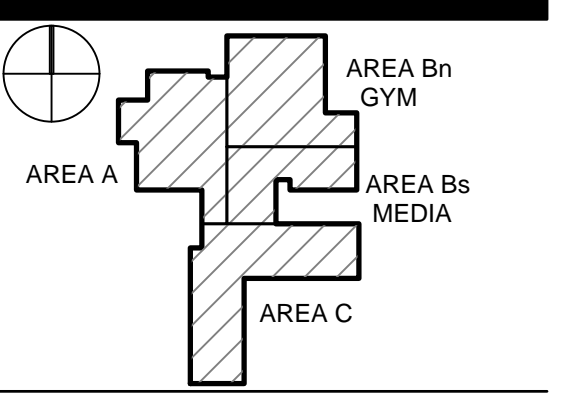


1 COMMUNICATION FLOOR PLAN LEVEL 1 - AREA B MEDIA
SCALE: 1/8" = 1'-0"



TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE WINNABOW, NC 28479



REVISIONS table with columns: No., Description, Date

ISSUED: CONSTRUCTION DOCUMENTS DATE: 05/24/2018 SCALE: NONE

SHEET NAME: PANELBOARD SCHEDULES

SHEET NUMBER: E-402

PANEL LKB: LOCATION: KITCHEN. S.E. LABEL: NO 225 AMP MAIN BREAKER. Includes table with columns: DESCRIPTION, WIRE SIZE, L, R, M.A.E.O., A, B, C, and load calculations.

PANEL LKA: LOCATION: MAIN ELEC. ROOM. S.E. LABEL: NO 400 AMP MAIN BREAKER. Includes table with columns: DESCRIPTION, WIRE SIZE, L, R, M.A.E.O., A, B, C, and load calculations.

PANEL HKA: LOCATION: KITCHEN. S.E. LABEL: NO 100 AMP MAIN BREAKER. Includes table with columns: DESCRIPTION, WIRE SIZE, L, R, M.A.E.O., A, B, C, and load calculations.

PANEL L1C: LOCATION: ROOM 1415. S.E. LABEL: NO 225 AMP MAIN BREAKER. Includes table with columns: DESCRIPTION, WIRE SIZE, L, R, M.A.E.O., A, B, C, and load calculations.

PANEL L1B: LOCATION: ROOM 1503. S.E. LABEL: NO 225 AMP MAIN BREAKER. Includes table with columns: DESCRIPTION, WIRE SIZE, L, R, M.A.E.O., A, B, C, and load calculations.

PANEL UDS: LOCATION: HOOD COLUMN. S.E. LABEL: NO 90 AMP MAIN BREAKER. Includes table with columns: DESCRIPTION, WIRE SIZE, L, R, M.A.E.O., A, B, C, and load calculations.

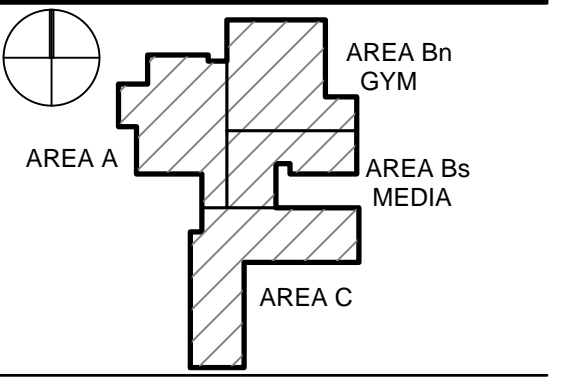
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Vertical labels on the right margin: P, N, M, L, K, J, H, G, F, E, D, C, B, A



TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE WINNABOW, NC 28479



REVISIONS table with columns: No., Description, Date. Row 1: ADDENDUM #1, 06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS DATE: 05/24/2018 SCALE: NONE SHEET NAME: PANELBOARD SCHEDULES SHEET NUMBER: E-403

PANEL H1D Electrical load schedule table. Includes columns for Description, Wire Size, L, R, M.A.E.O, and Demand. Lists loads for Lighting, Recept, Motors, and Equipment.

NOTES: 1. SUB-FED LOADS SHOWN IN TOTAL CALCULATION, NOT AT BREAKER. 2. CONTROL CIRCUIT THROUGH COMMON PHOTOCELL AND CONTACTOR FOR DUSK-TO-DAWN OPERATION.

PANEL L1DP Electrical load schedule table. Includes columns for Description, Wire Size, L, R, M.A.E.O, and Demand. Lists loads for Lighting, Recept, Motors, and Equipment.

NOTES: 1. SUB-FED LOADS SHOWN IN TOTAL CALCULATION, NOT AT BREAKER.

PANEL L1D Electrical load schedule table. Includes columns for Description, Wire Size, L, R, M.A.E.O, and Demand. Lists loads for Recept, Motors, and Equipment.

NOTES: 1. PROVIDE RED HANDLE AND LOCKING HASP TO LOCK BREAKER IN 'ON' POSITION. 2. PROVIDE GROUND-FAULT PROTECTED BREAKER.

PANEL L1E Electrical load schedule table. Includes columns for Description, Wire Size, L, R, M.A.E.O, and Demand. Lists loads for Recept, Motors, and Equipment.

NOTES: 1. PROVIDE RED HANDLE AND LOCKING HASP TO LOCK BREAKER IN 'ON' POSITION.

PANEL L1F Electrical load schedule table. Includes columns for Description, Wire Size, L, R, M.A.E.O, and Demand. Lists loads for Recept, Motors, and Equipment.

NOTES: 1. PROVIDE RED HANDLE AND LOCKING HASP TO LOCK BREAKER IN 'ON' POSITION.

Vertical grid letters A through P on the left side of the page.

Vertical grid numbers 1 through 18 on the right side of the page.

MISCELLANEOUS EQUIPMENT CONNECTION SCHEDULE								
ABBREV.	DESCRIPTION	LOCATION	BRANCH CIRCUIT	HP	KW	AMPS	VOLTS/PHASE	NOTE
BA	BACKSTOP ADJUSTMENT	GYM	SEE PLANS	0.25	-	-	120/1	1
BG	FOLDING BASKETBALL GOALS	GYM	SEE PLANS	0.75	-	-	208/1	2
BL	FLOATING BLEACHERS	GYM	SEE PLANS	1	-	-	120/1	3
BM	BUILDING MGMT BAS PANEL	1107, 1507, 1826, 2806	SEE PLANS	-	0.2	-	120/1	10
CL	CHAIR LIFT	GYM STAGE	SEE PLANS	2	-	16	208/1	10
CS	COILING SHUTTER	SNACK BAR	SEE PLANS	0.25	-	-	120/1	9
DB	DELIVERY DOORBELL	KITCHEN	SEE PLANS	-	0.2	-	120/1	11
DO	MOTORIZED DOOR OPERATOR	ENTRY	SEE PLANS	-	0.4	-	120/1	10
DR	DRYER	MISC.	SEE PLANS	-	5.0	-	208/1	8
ELH	ELEVATOR CAB HVAC	CORRIDOR 2800	SEE PLANS	-	0.5	-	120/1	13
ELL	ELEVATOR CAB LIGHTING	CORRIDOR 2800	SEE PLANS	-	0.2	-	120/1	13
ELM	ELEVATOR MOTOR	CORRIDOR 2800	SEE PLANS	25	-	-	460/3	13
FF	FLY FAN	KITCHEN	SEE PLANS	0.25	-	-	120/1	10
FS	FAUCET SENSORS	MISC.	SEE PLANS	-	0.2	-	120/1	6
GD	GYM DIVIDER	GYM	SEE PLANS	1	-	-	120/1	10
HD	HAND DRYER	GROUP RESTROOMS	SEE PLANS	-	1.4	11.7	120/1	7
HL	KITCHEN EXHAUST HOOD LIGHTS	KITCHEN	SEE PLANS	-	0.6	-	120/1	10
KI	KILN	ART	SEE PLANS	-	14.3	46.7	208/3	10
SB	BASKETBALL SCOREBOARD	GYM	SEE PLANS	-	0.6	-	120/1	4
SC	BASKETBALL SHOT CLOCK	GYM	SEE PLANS	-	0.4	-	120/1	5
ML	MAT LIFT	GYM	SEE PLANS	1	-	-	208/1	10
PP	PUSH PLATE FOR DOOR OPERATOR	ENTRY	SEE PLANS	-	0.01	-	120/1	10
PS	PROJECTOR SCREEN AND PROJECTOR	GYM, MEDIA	SEE PLANS	-	0.75	-	120/1	12

GENERAL MISCELLANEOUS CONNECTION NOTES:

- EQUIPMENT LOCATIONS OF THIS MAY VARY OR MAY NOT BE SHOWN ON THE ELECTRICAL FLOOR PLANS. COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH THE GENERAL CONTRACTOR OR EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.
- COORDINATE THE EXACT WIRING, CONTROL AND OVER-CURRENT PROTECTION REQUIREMENTS WITH THE ASSOCIATED CONTRACTOR(S) PRIOR TO ROUGH IN. VERIFY THE EXACT LOCATION AND NUMBER. MAKE FINAL CONNECTIONS IN LIQUID TIGHT FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT.

MISCELLANEOUS CONNECTION SCHEDULE NOTES:

- PROVIDE TWIST-LOCK CORD-AND-PLUG ASSEMBLY ADJACENT TO BACKSTOP ADJUSTMENT MOTOR AND COORDINATE CONTROL SWITCH REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- CONNECT TO FOLDING BASKETBALL BACKBOARDS. INSTALL AND CONNECT TO SIX FLUSH-MOUNT CONTROL STATIONS SUPPLIED BY THE GENERAL CONTRACTOR. LOCATE CONTROL STATIONS IN GYMNASIUM AS DIRECTED. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF THE CONTROL STATIONS PRIOR TO ROUGH IN. MAKE FINAL CONNECTIONS TO THE FOLDING BACKBOARD MOTORS WITH LIQUID TIGHT FLEXIBLE CONDUIT AND PROVIDE 14-20 TWIST-LOCK RECEPTACLE ADJACENT MOTOR. VERIFY THE MOTOR HORSE POWER AND VOLTAGE PRIOR TO ROUGH IN. PROVIDE BUCKBOOST TRANSFORMERS IF NECESSARY. ADJUST THE CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED.
- CONNECT TO FOLDING BLEACHERS. INSTALL AND WIRE FOUR FLUSH-MOUNTED CONTROL STATIONS SUPPLIED BY THE GENERAL CONTRACTOR. LOCATE CONTROL STATIONS SUPPLIED BY THE GENERAL CONTRACTOR. LOCATE CONTROL STATIONS IN GYMNASIUM AS DIRECTED. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF THE CONTROL STATIONS PRIOR TO ROUGH IN. MAKE FINAL CONNECTIONS. TO THE FOLDING BLEACHER MOTORS WITH LIQUID TIGHT FLEXIBLE CONDUIT. VERIFY THE MOTOR HORSE POWER AND VOLTAGE PRIOR TO ROUGH IN. ADJUST THE CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED.
- CONNECT TO SCOREBOARD. PROVIDE FLUSH MOUNTED RECEPTACLE ACCORDING TO EQUIPMENT SUPPLIER. WIRE TO THE SAME BRANCH CIRCUIT AS THE SHOT CLOCKS TO ALLOW A SINGLE POINT TO TURN OFF. WIRE SCOREBOARDS AND SHOT CLOCK BRANCH CIRCUIT TO A SINGLE POLE SWITCH.
- CONNECT TO SHOT CLOCK. PROVIDE RECEPTACLE MOUNTED TO THE MOTORIZED BACKBOARD STRUCTURE TO SERVE THE SHOT CLOCK. COORDINATE WITH THE EQUIPMENT SUPPLIER FOR RECEPTACLE MOUNTING LOCATION AND EQUIPMENT WIRING AND ROUTING ALONG FOLDING BACKBOARD. WIRE TO THE SAME BRANCH CIRCUIT AS THE SCOREBOARDS TO ALLOW A SINGLE POINT TO TURN OFF AND TO RESET. THE SHOT CLOCK IS WIFI CONNECTED.
- CONCEAL ALL WIRING IN WALL AND TIGHT WITHIN THE PLUMBING FIXTURES. NO WIRING SHALL BE EXPOSED TO THE PUBLIC VIEW. COORDINATE THE EXACT NUMBER AND WIRING REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN. PROVIDE HARD CONNECTIONS, LOW-VOLTAGE TRANSFORMER OR RECEPTACLE AS REQUIRED BY THE PLUMBING CONTRACTOR.
- CONCEAL ALL WIRING IN WALL. COORDINATE THE EXACT NUMBER AND LOCATIONS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN. PROVIDE HARD WIRED CONNECTION. PROVIDE A GFP TYPE CIRCUIT BREAKER TO SERVE THE EQUIPMENT.
- PROVIDE CONNECTION FOR RESIDENTIAL DRYER, 240/120 VOLTS, 30 AMP SERVICE. PROVIDE A 208 TO 240 VOLT BUCKBOOST TRANSFORMER ABOVE PANELBOARD TO SERVE THE NEMA 14-30R DRYER RECEPTACLE. COORDINATE THE EXACT CIRCUIT BREAKER SIZE, WIRE SIZE, TRANSFORMER SIZE AND PLUS CONFIGURATION WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.
- PROVIDE CONNECTION TO COILING SHUTTER AND CONNECT TO CONTROL SWITCH. PROVIDE MEANS OF DISCONNECT ADJACENT TO MOTOR. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF THE CONTROL STATIONS PRIOR TO ROUGH IN. PROVIDE INTERLOCK WITH SMOKE DETECTORS AND FIRE ALARM SYSTEM SO THAT WHEN SMOKE DETECTOR ON EITHER SIDE OF OPENING IS ACTIVATED, RATED COILING SHUTTER WILL AUTOMATICALLY RELEASE AND CLOSE.
- PROVIDE CONNECTION TO EQUIPMENT ACCORDING TO MANUFACTURER INSTALLATION REQUIREMENTS. PROVIDE DISCONNECT IF NOT SUPPLIED WITH EQUIPMENT. COORDINATE CONTROL DEVICE REQUIREMENTS AND PROVIDE ALL FINAL CONNECTIONS.
- PROVIDE AND INSTALL TWO-TONE DOORBELL FOR DELIVERY ARRIVALS AND PROVIDE WITH ONE CHIME DEVICE IN KITCHEN AND ONE CHIME DEVICE IN SERVING AREA. PROVIDE WEATHERPROOF MOMENTARY PUSHBUTTON AT EXTERIOR DOOR AND PROVIDE ALL ACCESSORIES AND CONNECTIONS FOR COMPLETE INSTALLATION.
- MOTORIZED PROJECTOR SCREEN WITH CONTROL STATION AND CEILING-HUNG PROJECTOR. PROVIDE AND CONNECT ADJACENT DISCONNECT, SCREEN MOTOR AND INSTALL AND CONNECT FLUSH-MOUNTED CONTROL STATION. PROVIDE POWER CONNECTION FOR THE CEILING HUNG PROJECTOR. COORDINATE THE EXACT WIRING REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. PROVIDE ADDITIONAL EMPTY CONDUIT BETWEEN THE PROJECTOR AND THE SCREEN AS REQUIRED BY THE EQUIPMENT SUPPLIER. COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT WITH THE OWNER PRIOR TO ROUGH IN.
- PROVIDE CONNECTION TO MACHINE-ROOM-LESS ELEVATOR EQUIPMENT. PROVIDE DISCONNECT IF NOT PROVIDED WITH EQUIPMENT. COORDINATE ALL CONNECTION LOCATIONS AND REQUIREMENTS WITH VENDOR OF EQUIPMENT SUPPLIED.

M-P EQUIPMENT CONNECTION SCHEDULE																
GENERAL INFORMATION		LOAD INFORMATION					DISCONNECT INFORMATION						NOTES			
CONNECTION DESIGNATION	DESCRIPTION	VOLTS/PHASE	HP	KW/KVA	FLA	MCA	MOCF	FURNISHED BY	INSTALLED BY	TYPE	AMP RATING	POLES	TRIP/FUSE SIZE	NEMA ENCLOSURE	NOTE #	
EF-1	EXHAUST FAN AREA-A ROOF	120/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-2	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-3	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-4	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-5	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-6	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-7	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-8	EXHAUST FAN AREA-A ROOF	115/1	1/6	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-9	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-10	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-11	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-12	EXHAUST FAN AREA-A ROOF	115/1	1/10	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-13	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-14	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-15	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-16	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-17	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-18	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-19	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-20	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-21	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-22	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-23	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-24	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-25	EXHAUST FAN CEILING	115/1	1/2	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-26	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-27	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-28	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-1	ENERGY RECOVERY UNIT AREA B ROOF	460/3	-	-	-	11.2	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-2	ENERGY RECOVERY UNIT AREA B ROOF	460/3	-	-	-	11.2	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-3	ENERGY RECOVERY UNIT AREA B ROOF	460/3	-	-	-	4	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-4	ENERGY RECOVERY UNIT AREA A ROOF	460/3	-	-	-	8	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-1	UNIT HEATER 1311 PLUMBING	120/1	-	-	-	1.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-2	UNIT HEATER 1319 ELECTRICAL	120/1	-	-	-	1.8	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-1	UNIT HEATER 1001 VESTIBULE	277/1	-	-	-	5.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-2	UNIT HEATER 1712 STAIRS	277/1	-	-	-	4.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-3	UNIT HEATER 1828 STAIRS	277/1	-	-	-	4.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
HP-1	SPLIT SYSTEM HEAT PUMP (OUTDOOR)	208/1	-	-	-	0.145	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KMU-1	HOOD 1 MAKE UP FAN KITCHEN ROOF	460/3	1-1/2	-	-	4.1	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KMU-2	HOOD 2 MAKE UP FAN KITCHEN ROOF	460/3	1-1/2	-	-	4.1	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KHEP-1	EXHAUST FAN KITCHEN ROOF	208/1	2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KHEP-2	EXHAUST FAN KITCHEN ROOF	208/1	2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-1	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-2	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-3	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-4	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	54.0	70	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-5	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-6	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	15.2	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-7	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-8	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	54.0	70	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-9	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	21.8	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-10	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	35	45	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-11	ROOF TOP UNIT KITCHEN ROOF	460/3	-	-	-	22.7	25.9	35	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4
RTU-12	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	15.1	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-13	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.6	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-14	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-15	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	19.9	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-16	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	15.1	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-17	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.6	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-18	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-19	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-20	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-21	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-22	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.6	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-23	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	19.9	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT						

PLUMBING CONNECTIONS TO FOODSERVICE EQUIPMENT - EQUIPMENT PROVIDED BY FOOD SERVICE VENDOR												
ITEM	QTY	DESCRIPTION	HOT WATER		COLD WATER	INDIRECT WASTE	DIRECT WASTE	GAS		ROUGH-IN HEIGHT	CONN TYPE	REMARKS
			SIZE	TEMP	SIZE			SIZE	INPUT			
8	7	HAND SINK	1/2"	110 F	1/2"		1-1/2"					PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
19	1	FAUCET W/ SWIVEL SPPOUSECK	1/2"	140 F	1/2"							PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
22	1	WORK TABLE W/SINK & POT RACK	1/2"	140 F	1/2"	1-1/2"						PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
24	1	DIS SYSTEM ISLAND TYPE										PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
24	1	TILTING SKILLET	1/2"		1/2"			3/4"	91,000			PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
26	1	CONVECTION STEAMERS			3/8"	1-1/2"		3/4"	144,000			PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
30	1	3 COMPARTMENT POWER POT SINK	1/2"	140 F	1/2"	1-1/2"						PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
32	1	DISPOSER W/15" CONE			1/2"		2"					PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
35	1	PRE-RINSE UNIT, SPLASH-MOUNTED	1/2"	140 F	1/2"							PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
39A	1	8" WALL MOUNT SERVICE FAUCET	1/2"	140 F	1/2"							PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
44	2	MILK COOLER				3/4"						PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
50	1	ICE MAKER				3/4"						PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
50B	1	ICE BIN				3/4"						PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION
50C	1	WATER FILTER ASSEMBLY			3/8"							PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-IN AND FINAL CONNECTION

SYMBOLS AND LEGENDS	
SYMBOLS	DESCRIPTION
	PIPE CONTINUES
	FLOOR DRAIN
	FLOOR CLEAN-OUT
	BALL VALVE
ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
BFP	BACKFLOW PREVENTER
BV	BALL VALVE
CO	CLEAN OUT
CV	CHECK VALVE
CW	COLD WATER
EF	EXHAUST FAN (MECHANICAL EQUIPMENT)
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GV	GRAVITY VENT (MECHANICAL EQUIPMENT)
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
PRV	PRESSURE REDUCING VALVE
SD	STORM DRAIN
SA	SHOCK ARRESTER
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
I.E. = 'x' - 'x' = INVERT ELEVATION	
PIPING	
	SANITARY WASTE
	GREASE WASTE
	SANITARY VENT
	STORM DRAIN
	2 PSI NATURAL GAS
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER 110°
	DOMESTIC HOT WATER 140°
	DOMESTIC HOT WATER RETURN

- PLUMBING GENERAL NOTES**
- INSTALL ALL WORK IN ACCORDANCE WITH THE STATE AND LOCAL PLUMBING CODES. WHERE CONFLICTS BETWEEN CODES AND CONSTRUCTION DOCUMENTS THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
 - THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
 - CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
 - CONTRACTOR SHALL MAINTAIN A CLEAN WORK PREMISE AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL HIS DEBRIS AT THE END OF THE DAY AND BEFORE FINAL PAYMENT IS MADE.
 - ALL PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE.
 - ALL MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE PIPING CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH-IN AND FINAL CONNECTIONS MADE UNDER THIS SECTION.
 - ALL FLOOR DRAINS AND HUB DRAINS SHALL HAVE DEEP SEAL TRAPS AND AN APPROVED METHOD FOR MAINTAINING TRAP SEAL. (MANUFACTURER: PRECISION PLUMBING PRODUCTS, PROSET SYSTEMS TRAP GUARD).
 - GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT THE HIGHEST POINT POSSIBLE.
 - FLOOR/WALL PENETRATIONS THROUGH RATED SEPARATIONS SHALL BE SEALED WITH AN APPROVED FIRE RATED MATERIAL.
 - WALL PENETRATIONS THROUGH NON-RATED PARTITIONS SHALL BE PROVIDED WITH A NON-SHRINKING GROUT OR CAULKING MATERIAL.
 - ALL VENTS THRU ROOF (VTR'S) SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
 - PRIOR TO THE INSTALLATION OF THE DRYWALL A REPRESENTATIVE FROM KSO AND THE OWNER SHALL INSPECT AND VERIFY THE INSTALLATION OF ALL PIPING SYSTEMS.

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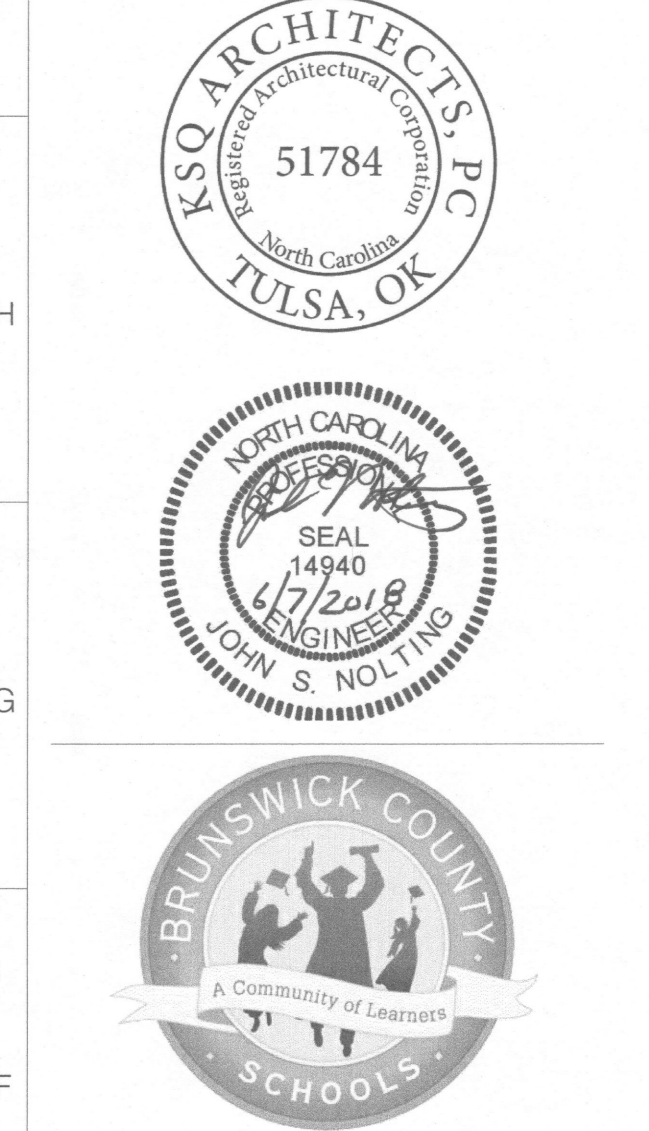
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REVISIONS

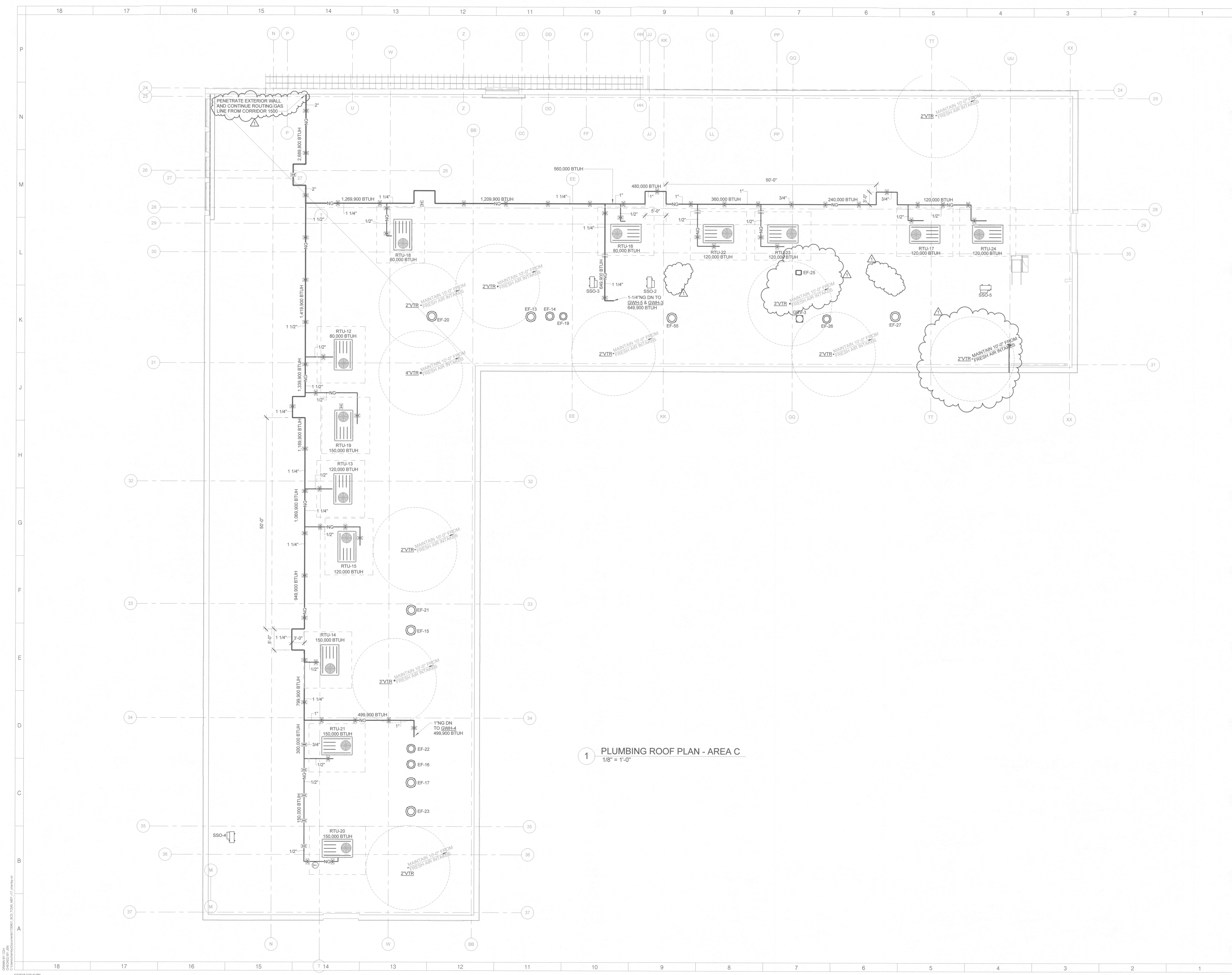
No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: As indicated
SHEET NAME:
GENERAL PROJECT INFORMATION

SHEET NUMBER:

P-001



1 PLUMBING ROOF PLAN - AREA C
1/8" = 1'-0"

ARCHITECT

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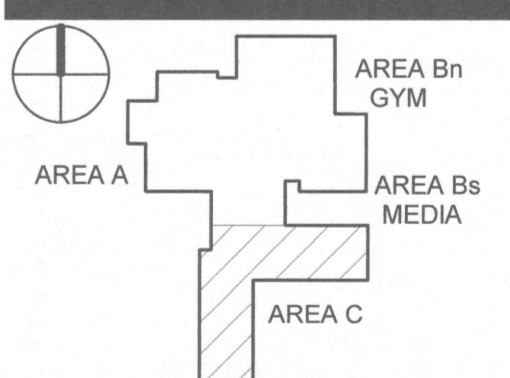
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**TOWN CREEK
MIDDLE
SCHOOL**

6370 LAKE PARK DRIVE
SE
WINNABOW, NC 28479



No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SCALE: 1/8" = 1'-0"

SHEET NAME:
PLUMBING ROOF PLAN -
AREA C

SHEET NUMBER:

P-121C

05/24/2018 2:03:40 PM
 PROJECT NUMBER: 1720601.00
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Subcontractor Scope of Work

Exhibit A

Town Creek Middle School

BP – 10G

Exterior Doors Canopies, Cafeteria Awning

Job # 18-404

A. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

DIVISION 00 – Procurement and Contracting Requirements

DIVISION 01 – General Requirements

10 73 01 Aluminum Wall Hung Canopies

B. Subcontractor's work specifically includes:

1. Subcontractor to provide and install attachment bolts, columns and canopies, gutter and down spouts required for complete installation of said scope.
2. Attachment and Anchoring to be designed by North Carolina Registered Engineer

C. Subcontractor Specific Requirements:

- A. Submittals must be uploaded onto WMJ Shareware site for review. To gain access to shareware site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
- B. Delivery Requirements: As coordinated by Subcontractor with WMJ on site Superintendent. Subcontractor is responsible to coordinate delivers with vendors. The construction manager will not provide equipment to unload subcontractor materials
- C. Not Used
- D. It is the responsibility of this Subcontractor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.
- E. Any and all requirements for mockups for approval of assemblies on this project are fully included.
- F. Not Used
- G. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.
- H. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.



- I. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations
- J. The Subcontractor is to include the following allowances in their base bid amount. These allowances will include all overhead and profit and will be identified on a separate line item in the payment application schedule of values. The Construction Manager is solely responsible for determining what work will be charged against these allowances and all said work must be authorized in writing by the Project Manager or Superintendent prior to commencing. Subcontractor will submit daily work slips for verification and actual costs against this allowance will be reconciled at the completion of the project. Any work performed by Subcontractor that was not previously authorized by the CM will not be reimbursed.
- K. Not Used
- L. Not Used
- M. Not Used



Scope of Work

Exhibit A

BP-11B

Appliances-Refrigerators, Ice Makers, Washer and Dryer Material Only

(Alternate to Install)

Town Creek Middle School

18-404

A. The vendor shall furnish all layout, materials, equipment, supplies and all other things necessary or reasonably incidental for the installation and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

Supplemental Instructions to Bidders dated May 18, 2018

Division 00 Procurement and Contracting Requirement

Division 01 General Requirements

11 31 00 Residential Appliances

B. Vendors Scope Specifically Includes:

11 31 00 Residential Appliances

1. Vendor to provide all residential appliances as shown on the document. Scope includes electrical power tails / whip, safety lanyards / retention device.
2. Base bid should include tax on material.

Voluntary Add Alternate to Install:

1. Vendor can provide alternate to install said materials. If vendor does included installation refer to section D.

C. Vendor Specific Requirements:

1. Submittals must be uploaded onto WMJ Shareware site for review. To gain access to shareware site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
2. Delivery Requirements: As coordinated by Vendor with WMJ on site Superintendent. Subcontractor is responsible to coordinate delivers with vendors. The construction manager will not provide equipment to unload subcontractor materials
3. It is the responsibility of this Vendor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.



4. Any and all requirements for mockups for approval of assemblies on this project are fully included.

- D. Portion of work applicable if the vendors chooses to provide alternate to install said materials.
 1. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, taxes, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:
 2. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.
 3. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.
 4. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations
 5. The Subcontractor is to include the following allowances in their base bid amount. These allowances will include all overhead and profit and will be identified on a separate line item in the payment application schedule of values. The Construction Manager is solely responsible for determining what work will be charged against these allowances and all said work must be authorized in writing by the Project Manager or Superintendent prior to commencing. Subcontractor will submit daily work slips for verification and actual costs against this allowance will be reconciled at the completion of the project. Any work performed by Subcontractor that was not previously authorized by the CM will not be reimbursed.



Subcontractor Scope of Work
Exhibit A
BP-11G
Stage Curtain and Stage Equipment
Town Creek Middle School
Job # 18-404

A. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

DIVISION 00 – Procurement and Contracting Requirements

DIVISION 01 – General Requirements

11 60 01 Broadcast, Theater and Stage Equipment

11 60 30 Performance Space and Curtain

B. Subcontractor's work specifically includes:

1. Provide stage curtains and stage equipment as shown in the contract documents.
2. Any additional steel support required to support stage curtain / equipment or rigging not shown on the contract documents but needed for this scope, shall be included in this scopes work.

C. Subcontractor Specific Requirements:

- A. Submittals must be uploaded onto WMJ Shareware site for review. To gain access to shareware site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
- B. Delivery Requirements: As coordinated by Subcontractor with WMJ on site Superintendent. Subcontractor is responsible to coordinate delivers with vendors. The construction manager will not provide equipment to unload subcontractor materials
- C. Not Used
- D. It is the responsibility of this Subcontractor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.
- E. Any and all requirements for mockups for approval of assemblies on this project are fully included.
- F. Not Used
- G. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.



- H. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.
- I. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations
- J. Not Used
- K. Provide signed shop drawings by a registered and licensed Engineer in State of North Carolina as indicated in Contract Documents.
- L. Subcontractor shall provide shop drawings indicating member size, camber, location, etc. as well as indicating anchorage details, etc.
- M. Not Used



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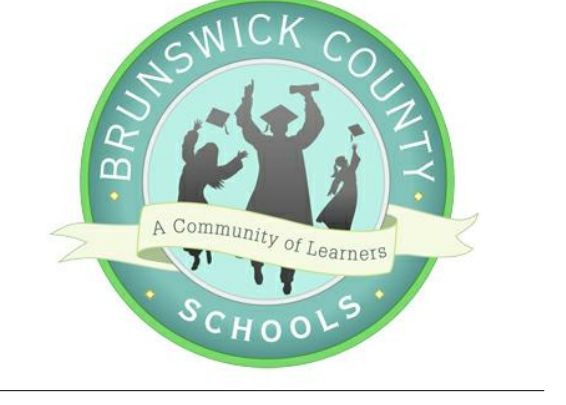
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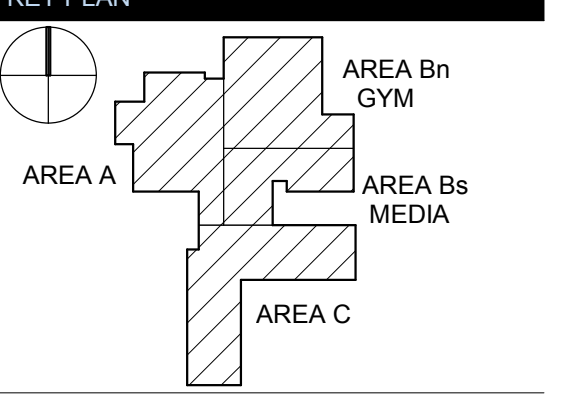
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REVISIONS table with columns: No., Description, Date. Row 1: 1, Addendum #1, 6-7-2018.

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE:
SHEET NAME:
SHEET INDEX
SHEET NUMBER:

G-001a

SHEET INDEX - VOL I

Issue Addendum 2
Issue Addendum 1
CD Issue 06-24-2018
CD Issue 04-04-2018
DD 12-11-2017
SD 10-23-2017

Table with columns: Sheet Number, Sheet Name. Includes sections: GENERAL, STRUCTURAL, ARCHITECTURAL, PLUMBING, FIRE PROTECTION, FOOD SERVICE, AUDIOVISUAL, NETWORK / IT, SECURITY.

SHEET INDEX - VOL II

Issue Addendum 2
Issue Addendum 1
CD Issue 06-24-2018
CD Issue 04-04-2018
DD 12-11-2017
SD 10-23-2017

Table with columns: Sheet Number, Sheet Name. Includes sections: MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FOOD SERVICE, AUDIOVISUAL, NETWORK / IT, SECURITY.

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DECK ATTACHMENT</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-004</td><td>ELEVATIONS - COMPONENTS AND GLAZING WALL WIND ZONES</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-101A</td><td>FOUNDATION PLAN - AREA A</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-101Bn</td><td>FOUNDATION PLAN - GYM - AREA B NORTH</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-101Bs</td><td>FOUNDATION PLAN - AREA B SOUTH</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-101C</td><td>FOUNDATION PLAN - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-102Bn</td><td>STAGE FRAMING ENLARGED PLAN</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-111C</td><td>SECOND FLOOR FRAMING PLAN - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-121A</td><td>ROOF FRAMING PLAN - 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EAST STAIR</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-703</td><td>STAIR PLAN & SECTIONS - COMMUNITY STAIR</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-711</td><td>STAIR DETAILS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-721</td><td>ELEVATOR PLANS AND SECTIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-801</td><td>INTERIOR ELEVATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-802</td><td>INTERIOR ELEVATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-803</td><td>INTERIOR ELEVATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-804</td><td>INTERIOR ELEVATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-805</td><td>INTERIOR ELEVATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-806</td><td>INTERIOR ELEVATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-811</td><td>MILLWORK / CASEWORK SECTIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-830</td><td>OVERALL FINISH FLOOR PLANS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831A</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA A</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831Bn</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA B GYM</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831Bs</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA B MEDIA</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831C</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-832C</td><td>FINISH FLOOR PLAN LEVEL 2 - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-841</td><td>INTERIOR FINISH LEGEND & SCHEDULES</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-861</td><td>SIGNAGE SCHEDULE & DETAILS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-871</td><td>FURNITURE PLANS</td></tr> </tbody> </table> </div> <div style="width: 48%;"> <h3 style="text-align: center;">SHEET INDEX - VOL II</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Issue Addendum</th> <th style="width: 10%;">Issue Addendum 1</th> <th style="width: 10%;">Issue Addendum 2</th> <th style="width: 10%;">CD 6/9/18</th> <th style="width: 10%;">DD 12-11-2017</th> <th style="width: 10%;">SD 10-23-2017</th> <th style="width: 10%;">Sheet Number</th> <th style="width: 40%;">Sheet Name</th> </tr> </thead> <tbody> <tr><td colspan="8">GENERAL</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>G-000b</td><td>COVER SHEET VOLUME 2</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>G-001b</td><td>SHEET INDEX</td></tr> <tr><td colspan="8">MECHANICAL</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-001</td><td>MECHANICAL SYMBOLS & LEGEND</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-002</td><td>OUTDOOR AIR CALCULATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-003</td><td>OUTDOOR AIR CALCULATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-004</td><td>OUTDOOR AIR CALCULATIONS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-101A</td><td>DUCTWORK FLOOR PLAN - LEVEL 1 - AREA A</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-101Bn</td><td>DUCTWORK FLOOR PLAN - LEVEL 1 - AREA B GYM</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-101Bs</td><td>DUCTWORK FLOOR PLAN - LEVEL 1 - AREA B MEDIA</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-101C</td><td>DUCTWORK FLOOR PLAN - LEVEL 1 - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-102C</td><td>DUCTWORK FLOOR PLAN - LEVEL 2 - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-121A</td><td>MECHANICAL ROOF PLAN - AREA A</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-121B</td><td>MECHANICAL ROOF PLAN - AREA B</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-121C</td><td>MECHANICAL ROOF PLAN AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-401</td><td>MECHANICAL DETAILS</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-501</td><td>MECHANICAL SCHEDULES</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-502</td><td>MECHANICAL SCHEDULES</td></tr> <tr><td colspan="8">ELECTRICAL</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-001</td><td>GENERAL PROJECT INFORMATION</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-011</td><td>ELECTRICAL SITE PLAN</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-101A</td><td>LIGHTING FLOOR PLAN - LEVEL 1 - AREA A</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-101Bn</td><td>LIGHTING FLOOR PLAN - LEVEL 1 - AREA B GYM</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-101Bs</td><td>LIGHTING FLOOR PLAN - LEVEL 1 - AREA B MEDIA</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-101C</td><td>LIGHTING FLOOR PLAN - LEVEL 1 - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-102C</td><td>LIGHTING FLOOR PLAN - LEVEL 2 - AREA C</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-111A</td><td>POWER FLOOR PLAN - LEVEL 1 - AREA A</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-111Bn</td><td>POWER FLOOR PLAN - LEVEL 1 - AREA B GYM</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-111Bs</td><td>POWER FLOOR PLAN - LEVEL 1 - AREA B MEDIA</td></tr> <tr><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>E-111C</td><td>POWER FLOOR PLAN - 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AREA A	■	■	■	■	■	■	S-101Bn	FOUNDATION PLAN - GYM - AREA B NORTH	■	■	■	■	■	■	S-101Bs	FOUNDATION PLAN - AREA B SOUTH	■	■	■	■	■	■	S-101C	FOUNDATION PLAN - AREA C	■	■	■	■	■	■	S-102Bn	STAGE FRAMING ENLARGED PLAN	■	■	■	■	■	■	S-111C	SECOND FLOOR FRAMING PLAN - AREA C	■	■	■	■	■	■	S-121A	ROOF FRAMING PLAN - AREA A	■	■	■	■	■	■	S-121Bn	ROOF FRAMING PLAN - GYM - AREA B NORTH	■	■	■	■	■	■	S-121Bs	ROOF FRAMING PLAN - AREA B SOUTH	■	■	■	■	■	■	S-121C	ROOF FRAMING PLAN - AREA C	■	■	■	■	■	■	S-501	FOUNDATION DETAILS AND SECTIONS	■	■	■	■	■	■	S-502	FOUNDATION DETAILS AND SECTIONS	■	■	■	■	■	■	S-503	BRACE DETAILS & BRACING ELEVATIONS	■	■	■	■	■	■	S-504	BRACING ELEVATIONS CONT.	■	■	■	■	■	■	S-505	MASONRY SECTIONS	■	■	■	■	■	■	S-506	STAGE FRAMING SECTIONS	■	■	■	■	■	■	S-507	TYPICAL FLOOR FRAMING SECTIONS	■	■	■	■	■	■	S-508	MISCELLANEOUS FRAMING SECTIONS	■	■	■	■	■	■	S-509	ROOF FRAMING SECTIONS	■	■	■	■	■	■	S-510	ROOF FRAMING SECTIONS	■	■	■	■	■	■	S-511	ROOF FRAMING SECTIONS	■	■	■	■	■	■	S-512	ROOF FRAMING SECTIONS	■	■	■	■	■	■	S-513	ROOF FRAMING SECTIONS	ARCHITECTURAL								■	■	■	■	■	■	A-011	ARCHITECTURAL SITE PLAN	■	■	■	■	■	■	A-100	OVERALL FLOOR PLANS	■	■	■	■	■	■	A-101A	FLOOR PLAN LEVEL 1 - AREA A	■	■	■	■	■	■	A-101Bn	FLOOR PLAN LEVEL 1 - AREA Bn GYM	■	■	■	■	■	■	A-101Bs	FLOOR PLAN LEVEL 1 - AREA Bs MEDIA	■	■	■	■	■	■	A-101C	FLOOR PLAN LEVEL 1 - AREA C	■	■	■	■	■	■	A-102C	FLOOR PLAN LEVEL 2 - AREA C	■	■	■	■	■	■	A-110	OVERALL REFLECTED CEILING PLAN LEVEL 1	■	■	■	■	■	■	A-111A	REFLECTED CEILING PLAN LEVEL 1 - AREA A	■	■	■	■	■	■	A-111Bn	REFLECTED CEILING PLAN LEVEL 1 - AREA Bn GYM	■	■	■	■	■	■	A-111Bs	REFLECTED CEILING PLAN LEVEL 1 - AREA Bs MEDIA	■	■	■	■	■	■	A-111C	REFLECTED CEILING PLAN LEVEL 1 - AREA C	■	■	■	■	■	■	A-112C	REFLECTED CEILING PLAN LEVEL 2 - AREA C	■	■	■	■	■	■	A-121	OVERALL ROOF PLAN	■	■	■	■	■	■	A-200	EXTERIOR BUILDING ELEVATIONS	■	■	■	■	■	■	A-210	GYM & ENTRY AXON & SECTIONS	■	■	■	■	■	■	A-211	DINING & MEDIA SLOPED ROOF AXON & SECTIONS	■	■	■	■	■	■	A-290	EXTERIOR BUILDING PERSPECTIVES	■	■	■	■	■	■	A-291	EXTERIOR BUILDING PERSPECTIVE ELEVATIONS	■	■	■	■	■	■	A-301	OVERALL BUILDING LONGITUDINAL SECTIONS	■	■	■	■	■	■	A-302	OVERALL BUILDING CROSS SECTIONS	■	■	■	■	■	■	A-305	ENLARGED BUILDING SECTIONS	■	■	■	■	■	■	A-306	ENLARGED BUILDING SECTIONS	■	■	■	■	■	■	A-310	WALL SECTIONS - GYM	■	■	■	■	■	■	A-311	WALL SECTIONS - STAGE	■	■	■	■	■	■	A-313	WALL SECTIONS - ADMIN, DINING	■	■	■	■	■	■	A-314	WALL SECTIONS - DINING, WEST ENTRY	■	■	■	■	■	■	A-315	WALL SECTIONS - FIRE WALL, MEDIA	■	■	■	■	■	■	A-316	WALL SECTIONS - MUSIC WING	■	■	■	■	■	■	A-317	WALL SECTIONS - WEST EXIT DOORS OVERHANG	■	■	■	■	■	■	A-318	WALL SECTIONS - CLASSROOM WING	■	■	■	■	■	■	A-320	CANOPY SECTIONS	■	■	■	■	■	■	A-401	ENLARGED FLOOR PLANS	■	■	■	■	■	■	A-402	ENLARGED FLOOR PLANS	■	■	■	■	■	■	A-403	ENLARGED FLOOR PLANS	■	■	■	■	■	■	A-404	ENLARGED FLOOR PLANS	■	■	■	■	■	■	A-501	EXTERIOR SECTION DETAILS	■	■	■	■	■	■	A-502	EXTERIOR SECTION DETAILS	■	■	■	■	■	■	A-511	EXTERIOR PLAN DETAILS	■	■	■	■	■	■	A-512	EXTERIOR PLAN DETAILS	■	■	■	■	■	■	A-513	EXTERIOR PLAN DETAILS	■	■	■	■	■	■	A-514	EXTERIOR PLAN DETAILS	■	■	■	■	■	■	A-521	ROOF DETAILS	■	■	■	■	■	■	A-522	ROOF DETAILS	■	■	■	■	■	■	A-531	INTERIOR SECTION DETAILS - STAGE	■	■	■	■	■	■	A-551	CEILING DETAILS	■	■	■	■	■	■	A-601	DOOR SCHEDULE	■	■	■	■	■	■	A-611	DOOR DETAILS	■	■	■	■	■	■	A-612	DOOR DETAILS	■	■	■	■	■	■	A-621	GLAZING SCHEDULE	■	■	■	■	■	■	A-622	GLAZING SCHEDULE	■	■	■	■	■	■	A-631	GLAZING DETAILS	■	■	■	■	■	■	A-632	EXTERIOR OPENING DETAILS	■	■	■	■	■	■	A-701	STAIR PLAN & SECTIONS - SOUTH STAIR	■	■	■	■	■	■	A-702	STAIR PLAN & SECTIONS - EAST STAIR	■	■	■	■	■	■	A-703	STAIR PLAN & SECTIONS - COMMUNITY STAIR	■	■	■	■	■	■	A-711	STAIR DETAILS	■	■	■	■	■	■	A-721	ELEVATOR PLANS AND SECTIONS	■	■	■	■	■	■	A-801	INTERIOR ELEVATIONS	■	■	■	■	■	■	A-802	INTERIOR ELEVATIONS	■	■	■	■	■	■	A-803	INTERIOR ELEVATIONS	■	■	■	■	■	■	A-804	INTERIOR ELEVATIONS	■	■	■	■	■	■	A-805	INTERIOR ELEVATIONS	■	■	■	■	■	■	A-806	INTERIOR ELEVATIONS	■	■	■	■	■	■	A-811	MILLWORK / CASEWORK SECTIONS	■	■	■	■	■	■	A-830	OVERALL FINISH FLOOR PLANS	■	■	■	■	■	■	A-831A	FINISH FLOOR PLAN LEVEL 1 - AREA A	■	■	■	■	■	■	A-831Bn	FINISH FLOOR PLAN LEVEL 1 - AREA B GYM	■	■	■	■	■	■	A-831Bs	FINISH FLOOR PLAN LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	A-831C	FINISH FLOOR PLAN LEVEL 1 - AREA C	■	■	■	■	■	■	A-832C	FINISH FLOOR PLAN LEVEL 2 - AREA C	■	■	■	■	■	■	A-841	INTERIOR FINISH LEGEND & SCHEDULES	■	■	■	■	■	■	A-861	SIGNAGE SCHEDULE & DETAILS	■	■	■	■	■	■	A-871	FURNITURE PLANS	Issue Addendum	Issue Addendum 1	Issue Addendum 2	CD 6/9/18	DD 12-11-2017	SD 10-23-2017	Sheet Number	Sheet Name	GENERAL								■	■	■	■	■	■	G-000b	COVER SHEET VOLUME 2	■	■	■	■	■	■	G-001b	SHEET INDEX	MECHANICAL								■	■	■	■	■	■	M-001	MECHANICAL SYMBOLS & LEGEND	■	■	■	■	■	■	M-002	OUTDOOR AIR CALCULATIONS	■	■	■	■	■	■	M-003	OUTDOOR AIR CALCULATIONS	■	■	■	■	■	■	M-004	OUTDOOR AIR CALCULATIONS	■	■	■	■	■	■	M-101A	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	■	M-101Bn	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	M-101Bs	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	M-101C	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	■	M-102C	DUCTWORK FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	■	M-121A	MECHANICAL ROOF PLAN - AREA A	■	■	■	■	■	■	M-121B	MECHANICAL ROOF PLAN - AREA B	■	■	■	■	■	■	M-121C	MECHANICAL ROOF PLAN AREA C	■	■	■	■	■	■	M-401	MECHANICAL DETAILS	■	■	■	■	■	■	M-501	MECHANICAL SCHEDULES	■	■	■	■	■	■	M-502	MECHANICAL SCHEDULES	ELECTRICAL								■	■	■	■	■	■	E-001	GENERAL PROJECT INFORMATION	■	■	■	■	■	■	E-011	ELECTRICAL SITE PLAN	■	■	■	■	■	■	E-101A	LIGHTING FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	■	E-101Bn	LIGHTING FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	E-101Bs	LIGHTING FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	E-101C	LIGHTING FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	■	E-102C	LIGHTING FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	■	E-111A	POWER FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	■	E-111Bn	POWER FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	E-111Bs	POWER FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	E-111C	POWER FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	■	E-112C	POWER FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	■	E-121A	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	■	E-121Bn	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	E-121Bs	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	E-121C	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	■	E-122C	COMMUNICATION FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	■	E-131A	POWER PLAN - ROOF - AREA A	■	■	■	■	■	■	E-131B	POWER PLAN - ROOF - AREA B	■	■	■	■	■	■	E-131C	POWER PLAN - ROOF - AREA C	■	■	■	■	■	■	E-201	POWER RISER DIAGRAM	■	■	■	■	■	■	E-301	ENLARGED POWER FLOOR PLAN - KITCHEN	■	■	■	■	■	■	E-401	PANELBOARD SCHEDULES	■	■	■	■	■	■	E-402	PANELBOARD SCHEDULES	■	■	■	■	■	■	E-403	PANELBOARD SCHEDULES	■	■	■	■	■	■	E-404	PANELBOARD SCHEDULES	■	■	■	■	■	■	E-405	PANELBOARD SCHEDULES	■	■	■	■	■	■	E-406	SCHEDULES	■	■	■	■	■	■	E-501	DETAILS	PLUMBING								■	■	■	■	■	■	P-001	GENERAL PROJECT INFORMATION	■	■	■	■	■	■	P-101A	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	■	P-101Bn	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	P-101Bs	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	P-101C	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	■	P-102C	WASTE AND VENT FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	■	P-111A	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	■	P-111Bn	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	P-111Bs	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	■	P-111C	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	■	P-112C	DOMESTIC WATER FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	■	P-121A	PLUMBING ROOF PLAN - AREA A	■	■	■	■	■	■	P-121Bn	PLUMBING ROOF PLAN - AREA B GYM	■	■	■	■	■	■	P-121Bs	PLUMBING ROOF PLAN - AREA B MEDIA	■	■	■	■	■	■	P-121C	PLUMBING ROOF PLAN - AREA C	■	■	■	■	■	■	P-301	ENLARGED PLANS - WASTE AND VENT	■	■	■	■	■	■	P-302	ENLARGED PLANS - WATER PIPING	■	■	■	■	■	■	P-303	WASTE AND VENT RISER	■	■	■	■	■	■	P-401	PLUMBING DETAILS	■	■	■	■	■	■	P-402	PLUMBING DETAILS	■	■	■	■	■	■	P-501	PLUMBING SCHEDULES	■	■	■	■	■	■	P-502	PLUMBING SCHEDULES	FIRE PROTECTION								■	■	■	■	■	■	FP-001	GENERAL PROJECT INFORMATION	■	■	■	■	■	■	FP-101A	FIRE PROTECTION - LEVEL 1 - AREA A	■	■	■	■	■	■	FP-101Bn	FIRE PROTECTION - LEVEL 1 - AREA B GYM	■	■	■	■	■	■	FP-101Bs	FIRE PROTECTION - LEVEL 1 - AREA B MEDIA
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APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS EXCEPT 1 & 2 FAMILY DWELLING & TOWNHOUSES

PROJECT DATA:
Name of Project: Town Creek Middle School
Address: 6370 LAKE PARK DRIVE SE WINNABOW, NC 28479
Project Number: 17206.01
Proposed Use: Education / Middle School
Owner or Authorized Agent: Jack Doyle (910) 253-1077; doyle@bcswan.net
Phone No. / Email: Brunswick County School
Owned By: Brunswick County School
Code Enforcement Jurisdiction: City/County Private State County: Brunswick State: North Carolina

LEAD DESIGN PROFESSIONAL: **Mr. Doug Burns, AIA**
DESIGNER FIRM NAME EMAIL
LICENSE PHONE
Architectural KSO Design Doug Burns dburns@ksqdesign.com
6458 704.364.3400
Electrical Quality Consulting Donnie Jones djones@qualityconsultingengineers.com
Engineers, PLLC 803.207.5450
#P-1184
Fire Alarm Quality Consulting Donnie Jones djones@qualityconsultingengineers.com
Engineers, PLLC 803.207.5450
#P-1184
Plumbing KSO Design John Nolting jnolting@ksqdesign.com
041988 704.364.3400
Mechanical KSO Design John Nolting jnolting@ksqdesign.com
041988 704.364.3400
Sprinkler / KSO Design John Nolting jnolting@ksqdesign.com
Standpipe 041988 704.364.3400
Structural Crisler Troutman Jeff Troutman jtroutman@ctengineering.com
Tanner Consulting 910.387.2929
Engineers F-0113

APPLICABLE CODES:
Edition Year of Code: See List Below (NCSCB - NC State Building Code)
NCSCB 2012 Edition for Existing: New Construction Addition Uplift
Reconstruction Alteration Repair
Year: Constructed: 2018 Renanted: _____
Uses(s): (Ch 3) Original: Education Current: Education Proposed: Education

TRADE	CODE	EDITION
General Construction	NCSCB	Building Code 2012
Administration & Enforcement	NCSCB	Administrative Code 2012
Plumbing	NCSCB	Plumbing Code 2012
Mechanical	NCSCB	Mechanical Code 2012
Electrical	National Electrical Code - NFPA 70	2014
Fire Prevention	NCSCB	Fire Prevention Code 2012
Gas	NCSCB	Fuel Gas Code 2012
Energy - Commercial	NCSCB	Energy Conservation Code 2012
Accessibility	NCSCB	Building Code 2012
Special Fire Codes	NFPA 99	2012
Zoning	NFPA 30 A	2012
	Brunswick County	

BUILDING DATA:
Construction Type: Shell I-A II-A III-A IV V-A
I-B II-B III-B V-B
Sprinklers: Shell Building No Partial Yes
NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes
Class: I II III Wet Dry
Fire District: No Yes (Primary)
Flood Hazard Area: No Yes
Building Height: 35'-0" Feet Stories 2

ALLOWABLE AREA:
Primary Occupancy:
Assembly A-1 A-2 A-3 A-4 A-5
Business Educational Factory F-1 (Moderate) F-2 (Low)
Hazardous H-1 (Detonate) H-2 (Deflagrate) H-3 (Combust)
Institutional I-1 I-2 I-3 I-4
I-3 Condition 1 2 3 4 5
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 (Moderate) S-2 (Low) High-Piled
Parking Garage Open Enclosed Repair Garage
Utility & Miscellaneous
Secondary Occupancy:
 Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 (Moderate) F-2 (Low)
 Hazardous H-1 (Detonate) H-2 (Deflagrate) H-3 (Combust)
 Institutional I-1 I-2 I-3 I-4
I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 (Moderate) S-2 (Low) High-Piled
 Parking Garage Open Enclosed Repair Garage
 Utility & Miscellaneous

Incidental Uses - (Table 508.2.5): N/A
 Furnace room where any piece of equipment is over 400,000 btu / hr input.
 Rooms with boilers where the largest piece of equipment is over 15psi & 10 HP.
 Refrigerant machine room.
 Hydrogen cut-off rooms, not classified as Group H.
 Incinerator rooms.
 Paint shops, not classified as Group H, located in occupancies other than Group F.
 Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy.
 Laundry rooms over 100 square-feet.
 Group I-3 cells equipped with padded surfaces.
 Group I-2 waste & linen collection rooms.
 Waste & linen collection rooms over 100 square-feet.
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 lbs used for facility stand-by power, emergency power or uninterrupted power supplies.
 Rooms containing fire pumps.
 Group I-2 storage rooms over 100 square-feet.
 Group I-2 commercial kitchens.
 Group I-2 laundries equal to or less than 100 square-feet.
 Group I-2 rooms or spaces contain fuel-fired heating equipment.

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (Feet)	RATING	DETAIL AND SHEET NUMBER	DESIGN NUMBER	Rated Penetration	Rated Joints
Structural Frame including columns, girders, & trusses	0	0	0			
Bearing walls	0	0	0			
Exterior	≤ 30	0	0	UL U	SEE MEP	SEE MEP
North	≥ 30	0	0	UL U	SEE MEP	SEE MEP
South	≥ 30	0	0	UL U	SEE MEP	SEE MEP
East	≥ 30	0	0	UL U	SEE MEP	SEE MEP
West	≤ 10	0	0	UL U	SEE MEP	SEE MEP
Interior						
Non-bearing walls & Partitions						
Exterior						
North	≥ 30	0	0	N/A	N/A	N/A
South	≥ 30	0	0			
East	≥ 30	0	0			
West	≥ 30	0	0			
Interior						
Floor construction including supporting beams & joists	0	0	0			
Shaft	1	N/A	UL U	SEE MEP	SEE MEP	
EXIT	1	N/A	UL U	SEE MEP	SEE MEP	
Enclosures	1	N/A	UL U	SEE MEP	SEE MEP	
OTHER	1	N/A	UL U	SEE MEP	SEE MEP	
Fire Barriers	N/A	N/A				
Corridor Separation	N/A					
Occupancy Separation	1HR		UL U	SEE MEP	SEE MEP	
Partyfire Wall Separation	N/A					
Smoke Barrier	N/A					
Tenant Separation	N/A					
Fire Partition	1HR		UL U	SEE MEP	SEE MEP	
Smoke Partition	N/A					
Horizontal Assembly	N/A					
Incidental Use Separation	N/A					

Mixed Occupancy:
No Yes
Exception: _____

Incidental Use Separation (508.2.5)
This separation is not exempt as a non-separated use (see exceptions).
Non-Separated Use (508.3 & 508.3.1)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
Separated Use Occupancy (508.4 & 508.4.1)
See below for area calculations. For each story, the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

FLOOR LEVEL	FIRST FLOOR				
	NORTH	SOUTH			
OCUPANCY	E	A	E	Total (Less than or equal to 1)	
A - ACTUAL AREA	23,867	17,826	27,200		
B - ALLOWABLE AREA	68,875	45,125	52,340		
A/B	.37 +	.40<1	.52		

FLOOR LEVEL	SECOND FLOOR				
OCUPANCY	E			Total (Less than or equal to 1)	
A - ACTUAL AREA	22,867				
B - ALLOWABLE AREA	52,486				
A/B	.43				

FLOOR LEVEL	THIRD FLOOR				
OCUPANCY	E			Total (Less than or equal to 1)	
A - ACTUAL AREA					
B - ALLOWABLE AREA					
A/B					

AREA CALCULATIONS:

Story No.	Description & Use	A	B	C	D	E	F
	EDUCATION	(Actual)	(Note 5)	(Note 1)	(Note 2)	(Note 3)	(Note 4)
NORTH OF FIRE WALL							
1	FIRST FLOOR	41,692.79	14,500	10,875	43,500	N/A	68,875
SOUTH OF FIRE WALL							
2	SECOND FLOOR	22,366.56	14,500	8,986	29,000	N/A	52,486
1	FIRST FLOOR	27,200.53	14,500	8,840	29,000	N/A	52,340
TOTAL SOUTH BLDG		49,587.09					104,826
TOTAL		91,279.88					173,701

ACCESSIBLE DWELLING UNITS: (SECTION 1107) N/A

Total Units	Accessible Units Required	Accessible Units Provided	Type A Units Required	Type A Units Provided	Total B Units Required	Type B Units Provided	Total Accessible Units Provided

ACCESSIBLE PARKING: (SECTION 1106) SEE CIVIL DWGS.

Lot or Parking Area	Total # of Parking Spaces Required	Provided	# of Accessible Parking Spaces Provided	Total # Accessible Provided
Lot 99	133	127	N/A	N/A
Total	99	133	127	N/A

ALLOWABLE HEIGHT:

Type of Construction	Type IIB	Type IIB	Code Reference
Height in Feet	55'	75'-0"	35'-0"
Height in Stories	2 Stories	3 Stories	2 Stories

STRUCTURAL DESIGN:

DESIGN LOADS:
Importance Factors:
Wind: W = 1.15
Snow: S = 1.1
Seismic: I = 1.25
Live Loads:
Roof: 20 psf
Attic: N/A
Mezzanine: N/A
Floor: CLASSROOM: 80 psf
LOBBIES: 100 psf
CORRIDORS: 100 psf
OFFICE: 50 psf
Ground Snow: 10 psf
Wind Load: Basic Wind Speed 131 mph
Exposure Category: C
Wind Based Shears (for MWFRS)
Vx = SEE STRUCTURAL DWGS Vy = SEE STRUCTURAL DWGS
Seismic Design Category: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5): I II III IV
Spectral Response Acceleration:
Ss = 32.3 %g S1 = 10.4 %g
Data Source: Field Test Presumptive Historical Data
Basic Structural System: (check one)
 Bearing Wall Dual w/ special moment frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Seismic Base Shear: Vx = SEE STRUCTURAL DWGS Vy = SEE STRUCTURAL DWGS
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical Components Anchored: No Yes
Lateral Design Control: Earthquake Wind (varies - see structural drawings)
Soil Bearing Capacity: N/A
Field Test (provide Copy of test report): 2000 pcf
Presumptive Bearing Capacity: N/A
Pile size, type & capacity: N/A
SPECIAL INSPECTIONS REQUIRED: No Yes

SPECIAL APPROVALS:
(Local Jurisdiction, Department of Insurance, OSC, DHHS, ICC, etc., describe below)
SEE STRUCTURAL DRAWING 5002 FOR LIST OF SPECIAL INSPECTIONS
SCHEDULE OF SPECIAL INSPECTIONS
 No special inspection required for this project Special inspections required
The following sheets comprise the required schedule of Special Inspections for this project. The construction divisions which require special inspection for this project are as follows:
 IT-1 Verification of Soils IT-10 Inspection of Structural Steel Fabricators
 IT-2 Excavation and Fill IT-11 Structural Masonry
 IT-3 Piling and Drilling Piers IT-12 Welding
 IT-4 Modular Retaining Walls IT-13 High Strength Bolt & Steel Framing Insp
 IT-5 Reinforced Concrete IT-14 Sprayed Fire-Resistance Materials
 IT-6 Post Tension Slab IT-15 Exterior Insulation and Finish Systems
 IT-7 Precast Concrete Erection IT-16 Seismic Resistance
 IT-8 Pre-tensioned Concrete IT-17 Smoke Control
 IT-9 Inspection of Pre-Cast Fabricators IT-18 Wood IT-19 Special Cases
Check the above boxes for the special inspection required for this project and list below specific special inspections required under Chapter 17. For questions regarding Special Inspections please see www.Meck-SI.com

EXIT REQUIREMENTS:

Floor, Room, or Space Designation	Minimum # of Exits	Travel Distance	Arrangement Means of Egress (Section 1015.2)
SECOND FLOOR	3	250'	174'
FIRST FLOOR / NORTH	3	250'	174'
FIRST FLOOR / SOUTH	3	250'	196'

EXIT WIDTH:

Use Group or Space Description / Occupancy Type	Area (sf) See note 1	Area per Occupant (Table 1005.1.1) See note 1	Occupant Load	Egress Width per Occupant (Table 1005.1) (a/b) x c	Exit Width (in.) See notes 2, 3, 4, 5, & 6	Actual Width Shown on Plans
1ST CLASS RM / -	15,528	20	777	0.3	0.2	156
2ND CLASS RM / -	12,557	20	630	0.3	0.2	189
ADMIN / -	5,294	100	53	0.3	0.2	11
GYM / A-4	8,864	07	1,265	0.3	0.2	253
DINING / A-2	3,750	15	251	0.3	0.2	51
MEDIA CENTER / -	4,139	60	283	0.3	0.2	17
TOTAL	-	-	3,059	0.3	0.2	189

ACCESSIBLE DWELLING UNITS: (SECTION 1107) N/A

ACCESSIBLE PARKING: (SECTION 1106) SEE CIVIL DWGS.

PLUMBING REQUIREMENTS:

Use	Waterclosets	Urinals	Lavatories	Showers / Tubs	Drinking Fountains
CLASS ROOM	New 17	18	1	12	13
REGD.	14	14	0	6	N/A
STAFF	New 2	2	0	2	2
REGD.	1	2	0	1	1

ENERGY SUMMARY: N/A

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.
Climate Zone: 3 4 5
Method of Compliance: Prescriptive (Energy Code) Performance (Energy Code) Prescriptive (ASHREA 90.1) Performance (ASHREA 90.1)

THERMAL ENVELOPE:

ROOF / CEILING ASSEMBLY

No.	Description	Total U-Value	Insulation R-Value	Skylights Total U-Value	Total Area
	METAL ROOFING OVER 3" RIGID INSULATION ON METAL DECK.				

EXTERIOR WALL ASSEMBLY

No.	Description	Total U-Value	Insulation R-Value	Openings - Windows or Doors w/ Glazing	Door U-Value	Shading Perform Coeff.	Low Factor E Req
1	4" MASONRY, 2" AIR SPACE, 1" RIGID INSUL., 1/2" GYP SHEATHING ON 8" METAL STUD WITH BATT INSULATION WITH 5/8" GYP						

WALL ASSEMBLIES BELOW GRADE N/A

No.	Description	Total U-Value	Insulation R-Value

FLOOR ASSEMBLIES OVER UNCONDITIONED SPACE N/A

No.	Description	Total U-Value	Insulation R-Value

FLOOR SLAB ASSEMBLIES ON GRADE

No.	Description	Total U-Value	Insulation R-Value
	4" SLAB ON GRADE		

ELECTRIC SYSTEMS & EQUIPMENT:
SEE SHEET E001 FOR ELECTRICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT:
SEE SHEET M001 FOR MECHANICAL SUMMARY

GENERAL NOTES:
1. DO NOT SCALE DRAWINGS. USE "INDICATED" DIMENSIONS ONLY. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. IN THE EVENT OF DISCREPANCY, NOTIFY THE ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING.
2. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE PROCEEDING OF THE RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK ARISING FROM SUCH A FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE OWNER / ARCHITECT.
3. PROTECT AND PRESERVE ALL EXISTING ITEMS TO REMAIN AND REPAIR OR REPLACE ANY ITEMS DAMAGED DURING THE COURSE OF THE WORK TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT / OWNER, WITHOUT ADDITIONAL COST TO THE OWNER.

ARCHITECT

ksqdesign

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Food Service Consultant
HERBIN DESIGN
7325 DORN CIRCLE
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www.herbin.com

REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SHEET NAME: BUILDING CODE ANALYSIS

SHEET NUMBER: G-021

18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	ARCHITECT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
ABBREVIATIONS																		ROOF PLAN LEGEND																		FLOOR PLAN LEGEND																		ANNOTATION LEGEND																		GENERAL ARCH. NOTES																		ARCHITECT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
<p>AT AIR-CONDITIONING AB ANCHOR BOLT ABC AGGREGATE BASE COURSE ACS ACCESS PANEL ACT ACOUSTICAL CEILING TILE ADJ ADJACENT AF ABOVE FINISHED FLOOR ALT ALTERNATE ALUM ALUMINUM ANOD ANODIZED CLEAR AUTO AUTOMATIC</p> <p>BD BOARD, BEAD BFF BELOW FINISHED FLOOR BLDG BUILDING BLK(G) BLOCKING BM BEAM BOT BOTTOM BRG BEARING BSMT BASEMENT BU BUILT-UP</p> <p>C CHANNEL C TO C CENTER TO CENTER CA CARD ACCESS CAB CABINET CB CATCH BASIN CEM CEMENT CEM PLAS CEMENT PLASTER CER CERAMIC CF CONTRACTOR FURNISH/CONTRACTOR INSTAL CFM CUBIC FEET PER MINUTE CG CORNER GUARD CI CAST IRON CP CAST IRON PIPE, CAST-IN-PLACE CJ CANTILEVER JOINT CKT CIRCUIT CL CENTER LINE CLNG CEILING CLR CLEAR CMR MODIFIED METAL PIPE CMU CONCRETE MASONRY UNIT CO CLEAN-OUT COLM COLUMN COMB COMBINATION CONC CONCRETE CONN CONNECT CONSTR CONSTRUCTION CONT CONTINUE CORR CORRODE CARP CARPET CSK COUNTER SINK CT CERAMIC TILE CJ CUBIC CU FT CUBIC FEET OW COLD WATER PIPING</p> <p>D DEEP, DEPTH DBL DOUBLE DEMO DEMOLISH DEPT DEPARTMENT DET DETAIL DF DRINKING FOUNTAIN DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DISP DISPENSER DMPP DAMPPROOFING DR DOOR DS DOWNSPOUT DWG DRAWING</p> <p>E EAST EA EACH EF EACH FACE EIFS EXT. INSULATION AND FINISH SYSTEM EJ EXPANSION JOINT EL ELEVATION ELEC ELECTRICAL ELEV ELEVATOR EMER EMERGENCY EOS EDGE OF SLAB EQU EQUAL EQUIP EQUIPMENT EST ESTIMATE ETC ETCETERA EW EACH WAY EWCO ELECTRIC WATER COOLER EXC EXCAVATION EXH EXHAUST EXIST EXISTING EXP EXPANSION EXPAN EXPANSION BOLT PUR EXTERIOR PVC POLYVINYL CHLORIDE</p> <p>FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL FOOD FLOOR CLEAN-OUT FD FLOOR DRAIN QTY QUANTITY OTR QUANTITY FDN FOUNDATION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FF EL FINISHED FLOOR ELEVATION FHC FIREHOSE CABINET FHR FIREHOSE RACK FIN FINISH(ED) FLASH FLASHING REIN REINFORCED(ING) FLR FLOOR FLUOR FLUORESCENT FM FACTORY MUTUAL FACE FACE OF WALL FP FIREPROOF FR FIRE RETARDANT FRP FIBERGLASS REINFORCED PANEL FT FOOT, FEET FURNG FURNISHING FUT FUTURE</p> <p>G GROUND GA GAGE GALV GALVANIZED GC GENERAL CONTRACTOR GFR GLASS FIBER REINFORCED CONCRETE GL GALVANIZED IRON GLZ GLASS, GLAZING GPM GALLONS PER MINUTE GYP GYPSUM GYP BD GYPSUM BOARD</p> <p>H HIGH HB HOSE BIBB HC HOLLOW CORE, HANDICAP HD HEAVY DUTY HDBD HARDBOARD HDWD HARDWOOD HDWR HARDWARE HM HOLLOW METAL HORIZ HORIZONTAL HP HORSE POWER HT HEIGHT HVAC HEATING/VENTILATING/AIR-CONDITIONING HW HOT WATER</p> <p>ID INSIDE DIAMETER IF INSIDE FACE INCL INCLUDED INFO INFORMATION INSUL INSULATION INT INTERIOR</p>																		<p>EXHAUST FAN</p> <p>ROOF DRAIN</p> <p>ROOF VENT</p> <p>ROOF HATCH</p> <p>ROOFTOP MECHANICAL EQUIPMENT</p> <p>THROUGH-WALL SCUPPER</p> <p>SKYLIGHT</p> <p>EXPANSION JOINT COVER ASSEMBLY</p>																		<p>WALL TYPES:</p> <p>--- DEMOLITION</p> <p>— NEW CONSTRUCTION</p> <p>FIRE RATING WALL TYPES:</p> <p>--- 30 MIN FIRE BARRIER</p> <p>--- 1 HR FIRE BARRIER</p> <p>--- 2 HR FIRE BARRIER</p> <p>--- TRAVEL DISTANCE</p> <p>OTHER WALL-MOUNTED COMPONENTS:</p> <p>--- CORNER GUARDS</p> <p>--- FULL RECESSED FIRE EXTINGUISHER CABINET</p> <p>--- SEMI-RECESSED FIRE EXTINGUISHER CABINET</p> <p>--- SURFACE MOUNTED FIRE EXTINGUISHER BRACKET</p> <p>--- DENOTES OVERHEAD FIRE SHUTTER</p> <p>--- EXPANSION JOINT</p> <p>FLOOR-MOUNTED COMPONENTS:</p> <p>--- FLOOR DRAIN</p> <p>--- FLOOR SINK</p> <p>--- EYE/FACE WASH AND SHOWER STATION</p>																		<p>TITLE 12" = 1'-0" A1</p> <p>VIEW TITLE</p> <p>BUILDING ELEVATION</p> <p>INTERIOR ELEVATION</p> <p>BUILDING SECTION</p> <p>WALL SECTION</p> <p>DETAIL</p> <p>ROOM NAME & NUMBER</p> <p>DOOR NUMBER</p> <p>FRAME TYPE</p> <p>WINDOW TYPE</p> <p>STOREFRONT TYPE</p> <p>ELEVATION</p> <p>CEILING HEIGHT (AFF)</p> <p>COLUMN GRID</p> <p>REVISION</p> <p>WALL FINISH</p> <p>BASE FINISH</p> <p>FLOOR FINISH</p> <p>DESIGNATED WALL FINISH</p> <p>DESIGNATED FLOOR FINISH</p> <p>MILLWORK COUNTERTOP/SPLASH</p> <p>MILLWORK WALL OR BASE CABINETS</p> <p>ACCESSIBLE ROOMS WITH MOBILITY FEATURES</p> <p>ACCESSIBLE ROOMS WITH COMMUNICATION FEATURES</p> <p>NORTH ARROW</p>																		<p>1 EXTERIOR DIMENSIONS GIVEN TO THE EXTERIOR FACE OF FRAMING (STUDS). DIMENSIONS TO INTERIOR PARTITIONS ARE TO THE FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.</p> <p>2 LARGE SCALE DETAILS AND PLANS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.</p> <p>3 ALL ITEMS ARE CONSIDERED TO BE "NEW" UNLESS NOTED OTHERWISE.</p> <p>4 COORDINATE AND VERIFY ALL DIMENSIONS, OPENINGS AND CONDITIONS WITH CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL AND ALL OTHER PERTINENT DRAWINGS AND TRADES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES AS SOON AS POSSIBLE.</p> <p>5 DO NOT SCALE DRAWINGS.</p> <p>6 ALL DETAILS ARE TYPICAL, INCORPORATE INTO PROJECT AT APPROPRIATE LOCATIONS WHETHER SPECIFICALLY INDICATED OR NOT.</p> <p>7 HINGE SIDE OF ALL DOORS ARE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.</p> <p>8 NOT USED.</p> <p>9 THE DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY DOCUMENTS NEITHER TAKE PRECEDENCE OVER THE OTHER. CONFLICTS IN SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.</p> <p>10 THIS SET OF DRAWINGS INDICATES GENERAL SCOPE OF THE PROJECT. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT. ON BASIS OF SCOPE INDICATED OR DESCRIBED, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK.</p> <p>11 ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL, STATE AND FEDERAL CODES OR REGULATIONS.</p> <p>12 ALL NEW CONSTRUCTION SHALL MEET CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.</p> <p>13 THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE PROCEEDING WITH EXCAVATION, TRENCHING OR SIMILAR WORK. THESE DRAWINGS DO NOT CERTIFY THE EXISTENCE OF UTILITIES WHICH MAY BE PRESENT BUT UNRECORDED OR UNDETECTED.</p> <p>14 PROVIDE LINTELS OR HEADERS AS REQUIRED OR DIRECTED OVER OPENINGS PENETRATED BY MECHANICAL EQUIPMENT.</p> <p>15 PROVIDE MIN. 2X6 FIRE RETARDANT WOOD OR STEEL PLATE BLOCKING BETWEEN STUDS AT MOUNTING LOCATIONS FOR TOILET ACCESSORIES, HANDRAILS, GUARDRAILS, MILLWORK, AND OTHER WALL MOUNTED ITEMS.</p> <p>16 PROVIDE CODE COMPLIANT NON-COMBUSTIBLE BLOCKING, SUPPORTS, ETC., FOR SECURE INSTALLATION OF WALL MOUNTED ITEMS. CONTRACTOR TO DETERMINE TYPE OF BLOCKING AND ANCHORING AS REQUIRED TO SUIT INSTALLATION AND WALL CONDITION. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD DETAILS AND MOUNTING HEIGHTS.</p> <p>17 PROVIDE SECURE AND PERMANENT ANCHORAGE FOR CEILING FURRING AND OTHER CEILING MOUNTED ITEMS. SEISMIC REQUIREMENTS APPLY.</p> <p>18 PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF WALLS AND FLOORS AS SPECIFIED IN SPEC SECTION - FIRESTOPPING.</p> <p>19 NOT USED.</p> <p>20 ALL SUBSTITUTIONS OF MATERIALS AND ASSEMBLIES MUST BE APPROVED BY ARCHITECT IN ACCORDANCE WITH DIVISION 1 SPECIAL CONDITIONS.</p> <p>21 CONTRACTOR IS REQUIRED TO PROVIDE CONTROL AND EXPANSION JOINTS IN ALL ASSEMBLIES PER SPECIFICATION.</p> <p>22 CONTRACTOR SHALL PROVIDE ACCESS TO ALL FIRE DAMPERS AND SPRINKLER HEADS.</p> <p>23 ALL PIPING, DUCTWORK AND CONDUIT TO BE CONCEALED UNLESS NOTED OTHERWISE.</p> <p>24 ALL EXISTING SITE COMPONENTS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ALL DAMAGED SURFACES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AS REQUIRED BY THE OWNER'S REP.</p> <p>25 SITE SURVEY IS PROVIDED BY OTHERS AND IS INCLUDED FOR INFORMATION ONLY. ALL CONDITIONS TO BE FIELD VERIFIED BY CONTRACTOR.</p> <p>26 CONTRACTOR SHALL MAINTAIN SITE DRAINAGE DURING CONSTRUCTION.</p> <p>27 CONTRACTOR SHALL MAINTAIN A CLEAN AND SECURE SITE AS REQUIRED BY DIVISION 1 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS.</p> <p>28 VERIFY THE FOLLOWING WITH THE RESPECTIVE TRADES: A. SIZES AND LOCATIONS FOR BACKING/BLOCKING REQUIRED FOR MOUNTING MECH. AND/OR ELEC. EQUIPMENT SHALL COMPLY WITH DIVISION 5. B. SIZES AND LOCATIONS OF MECH. AND/OR ELEC. PENETRATIONS C. CUTTING AND PATCHING FOR WORK REQUIRED BY MECH. AND/OR ELEC.</p> <p>29 HOT WATER LINES AND DRAIN LINES UNDERNEATH ACCESSIBLE SINKS SHALL BE INSULATED.</p> <p>30 NOT USED.</p> <p>31 PROVIDE SEISMIC SPLAY WIRES & PROVIDE COMPRESSION STRUTS FOR ACOUSTICAL TILE & GYP BD SUSPENSION SYSTEMS.</p> <p>32 ALL CONSTRUCTION SHALL COMPLY TO RESPECTIVE SEISMIC REQUIREMENT SEE STRUCT DRAWINGS FOR SEISMIC CHARACTERISTICS.</p> <p>33 EXPOSED ENDS OF ALL PROJECTING ELEMENTS SUCH AS SILLS, LEDGES & SIMILAR COMPONENTS FABRICATED IN METAL, STONE & OTHER MATERIALS SHALL BE FINISHED SAME AS FACE.</p> <p>34 FOR SPRAY-APPLIED AND INTUMESCENT FIRE PROTECTION SCOPE, REFER TO SCHEDULE AT END OF SECTION 07 81 23 INTUMESCENT FIREPROOFING</p>																		<p>START POINT</p> <p>FIRE ALARM PULL STATION</p> <p>FIRE ALARM AUDIO/VISUAL DEVICE</p> <p>HEAT/THERMAL DETECTOR</p> <p>OCCUPANCY SENSOR</p> <p>CEILING FAN</p> <p>VOICE ENHANCEMENT SPEAKER (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED)</p> <p>INTERCOM (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED)</p> <p>MOTION SENSOR</p> <p>EXIT SIGN</p> <p>ACCESS PANEL (ACS)</p> <p>EXTERIOR LIGHT FIXTURE</p> <p>CEILING MOUNTED WALL PROJECTOR</p> <p>TRACK LIGHTING</p> <p>SUSPENDED UPLIGHT</p> <p>SUSPENDED UPLIGHT</p> <p>STRIP LIGHTING FIXTURE LENGTH VARIES</p> <p>COVE LIGHT</p> <p>30" DEEP RADIANT</p> <p>PHOTO CELL</p> <p>SMOKE DETECTOR</p> <p>INTERCOM SPEAKER</p> <p>CLASSROOM SPEAKER</p> <p>AUDIO/VISUAL FIXTURE</p> <p>CAMERA</p> <p>TONE/VISUAL FIXTURE</p> <p>CCTV SURVEILLANCE FIXTURE</p> <p>GYPSUM WALLBOARD, CEMENT OR GYP PLASTER</p> <p>EXPOSED STRUCTURE</p> <p>EXISTING TO REMAIN</p> <p>WOOD T&G CEILING</p> <p>SUPPLY DIFFUSER</p> <p>SUPPLY DIFFUSER</p> <p>RETURN AIR GRILLE</p> <p>RETURN REGISTER</p> <p>EXHAUST GRILLE</p> <p>FORCE AIR DIFFUSER</p> <p>SIDE WALL DIFFUSER</p> <p>2' X 4' LIGHT FIXTURE</p> <p>2' X 2' LIGHT FIXTURE</p> <p>1' X 2' LIGHT FIXTURE</p> <p>1' X 1' LIGHT FIXTURE</p> <p>LIGHT FIXTURE LENGTH VARIES</p> <p>WALL MOUNTED LIGHT FIXTURE</p> <p>WALL MOUNTED LIGHT FIXTURE</p> <p>RECESSED DOWNLIGHT</p>																		<p>SPECIALTIES AND EQUIPMENT</p> <table border="1"> <thead> <tr> <th>MARK</th><th>DESCRIPTION</th><th>CF</th><th>CI</th><th>OF</th><th>OI</th><th>ROOMS</th></tr> </thead> <tbody> <tr><td></td><td>WALKWAY CANOPY (ALTERNATE)</td><td>X</td><td>X</td><td></td><td></td><td>EXTERIOR</td></tr> <tr><td></td><td>DOOR CANOPY</td><td>X</td><td>X</td><td></td><td></td><td>GYM, KITCHEN</td></tr> <tr><td>ACP-1</td><td>SOUND PANELS-CEILING</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>AWP-1</td><td>ACOUSTICAL WALL PANELS</td><td>X</td><td>X</td><td></td><td></td><td>MUSIC ROOM</td></tr> <tr><td>AWP-2</td><td>SOUND PANELS-WALL</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>D</td><td>DRYER</td><td>X</td><td>X</td><td></td><td></td><td>GYM, EC</td></tr> <tr><td>E1</td><td>KILN</td><td>X</td><td>X</td><td></td><td></td><td>ART CLASSROOM</td></tr> <tr><td>E2</td><td>PROJECTION SCREEN</td><td>X</td><td>X</td><td></td><td></td><td>DINING</td></tr> <tr><td>E3</td><td>BLEACHERS</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>E4</td><td>DIVIDER CURTAIN (ALTERNATE)</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>E5</td><td>SCORE BOARD WITH SHOT CLOCK</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>E6</td><td>OVERHEAD POWER</td><td>X</td><td>X</td><td></td><td></td><td>MAKERSPACE</td></tr> <tr><td>E7</td><td>STAGE LIFT</td><td>X</td><td>X</td><td></td><td></td><td>STAGE</td></tr> <tr><td>E8</td><td>REFRIGERATOR</td><td>X</td><td>X</td><td></td><td></td><td>WORKROOM</td></tr> <tr><td>E9</td><td>SMARTBOARD</td><td>X</td><td>X</td><td></td><td></td><td>CLASSROOM</td></tr> <tr><td>E9</td><td>MICROWAVE</td><td>X</td><td>X</td><td></td><td></td><td>WORKROOM</td></tr> <tr><td>E10</td><td>COPIER</td><td>X</td><td>X</td><td></td><td></td><td>ADMIN</td></tr> <tr><td>E11</td><td>SCORE KEEPER TABLE, MOVEABLE</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>E12</td><td>WRESTLING MAT LIFT</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>E13</td><td>LARGE SCREEN TV</td><td>X</td><td>X</td><td></td><td></td><td>MEDIA CENTER</td></tr> <tr><td>E14</td><td>PROJECTION SCREEN</td><td>X</td><td>X</td><td></td><td></td><td>GYM</td></tr> <tr><td>E16</td><td>REFRIGERATOR</td><td>X</td><td>X</td><td></td><td></td><td>SCIENCE LABS</td></tr> <tr><td>E16</td><td>REFRIGERATOR</td><td>X</td><td>X</td><td></td><td></td><td>SNACK BAR</td></tr> <tr><td>E17</td><td>ICE MACHINE</td><td>X</td><td>X</td><td></td><td></td><td>SNACK BAR</td></tr> <tr><td>F1</td><td>ADA BENCH</td><td>X</td><td>X</td><td></td><td></td><td>LOCKER ROOM</td></tr> <tr><td>F2</td><td>BENCH</td><td>X</td><td>X</td><td></td><td></td><td>LOCKER ROOM</td></tr> <tr><td>F3</td><td>CLUBBYLOCKER</td><td>X</td><td>X</td><td></td><td></td><td>LOCKER ROOM</td></tr> <tr><td>F4</td><td>SAFETY GOGGLE 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<tr><td>S1</td><td>KILN DRYING RACK</td><td>X</td><td>X</td><td></td><td></td><td>ART CLASSROOM</td></tr> <tr><td>S2</td><td>ADJUSTABLE STORAGE SHELVING</td><td>X</td><td>X</td><td></td><td></td><td>ART CLASSROOM</td></tr> <tr><td>S3</td><td>ADJUSTABLE STORAGE SHELVING</td><td>X</td><td>X</td><td></td><td></td><td>JANITOR</td></tr> <tr><td>TA-1</td><td>FRAMELESS MIRROR</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-2</td><td>GRAB BAR</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-3</td><td>TOILET PAPER DISPENSER</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-4</td><td>PAPER TOWEL DISPENSER</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-5</td><td>SOAP DISPENSER</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-6</td><td>SANITARY NAPKIN DISPENSER</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-7</td><td>SANITARY NAPKIN DISPOSAL</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-8</td><td>WHITEBOARD</td><td>X</td><td>X</td><td></td><td></td><td>CLASSROOM</td></tr> <tr><td>TA-9</td><td>SHOWER CURTAIN ROD</td><td>X</td><td>X</td><td></td><td></td><td>EC TOILET/SHOWER</td></tr> <tr><td>TA-9</td><td>SHOWER CURTAIN & HOOKS</td><td>X</td><td>X</td><td></td><td></td><td>EC TOILET/SHOWER</td></tr> <tr><td>TA-10</td><td>IQOP AND BROOM HOLDER</td><td>X</td><td>X</td><td></td><td></td><td>JANITOR</td></tr> <tr><td>TA-12</td><td>PRIVACY CURTAIN</td><td>X</td><td>X</td><td></td><td></td><td>EC TOILET/SHOWER</td></tr> <tr><td>TA-13</td><td>ELECTRIC HAND DRYER</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>TA-14</td><td>TACK STRIP</td><td>X</td><td>X</td><td></td><td></td><td>ART CLASSROOM</td></tr> <tr><td>TA-14</td><td>TACK STRIP</td><td>X</td><td>X</td><td></td><td></td><td>CORRIDOR</td></tr> <tr><td>TA-15</td><td>ADJUSTABLE HEIGHT CHANGING TABLE</td><td>X</td><td>X</td><td></td><td></td><td>EC TOILET/SHOWER</td></tr> <tr><td>TA-16</td><td>TOILET PARTITIONS</td><td>X</td><td>X</td><td></td><td></td><td>RESTROOMS</td></tr> <tr><td>W</td><td>WASHER</td><td>X</td><td>X</td><td></td><td></td><td>GYM, EC</td></tr> </tbody> </table>																		MARK	DESCRIPTION	CF	CI	OF	OI	ROOMS		WALKWAY CANOPY (ALTERNATE)	X	X			EXTERIOR		DOOR CANOPY	X	X			GYM, KITCHEN	ACP-1	SOUND PANELS-CEILING	X	X			GYM	AWP-1	ACOUSTICAL WALL PANELS	X	X			MUSIC ROOM	AWP-2	SOUND PANELS-WALL	X	X			GYM	D	DRYER	X	X			GYM, EC	E1	KILN	X	X			ART CLASSROOM	E2	PROJECTION SCREEN	X	X			DINING	E3	BLEACHERS	X	X			GYM	E4	DIVIDER CURTAIN (ALTERNATE)	X	X			GYM	E5	SCORE BOARD WITH SHOT CLOCK	X	X			GYM	E6	OVERHEAD POWER	X	X			MAKERSPACE	E7	STAGE LIFT	X	X			STAGE	E8	REFRIGERATOR	X	X			WORKROOM	E9	SMARTBOARD	X	X			CLASSROOM	E9	MICROWAVE	X	X			WORKROOM	E10	COPIER	X	X			ADMIN	E11	SCORE KEEPER TABLE, MOVEABLE	X	X			GYM	E12	WRESTLING MAT LIFT	X	X			GYM	E13	LARGE SCREEN TV	X	X			MEDIA CENTER	E14	PROJECTION SCREEN	X	X			GYM	E16	REFRIGERATOR	X	X			SCIENCE LABS	E16	REFRIGERATOR	X	X			SNACK BAR	E17	ICE MACHINE	X	X			SNACK BAR	F1	ADA BENCH	X	X			LOCKER ROOM	F2	BENCH	X	X			LOCKER ROOM	F3	CLUBBYLOCKER	X	X			LOCKER ROOM	F4	SAFETY GOGGLE CABINET	X	X			SCIENCE LABS	F5	OUTDOOR BENCHES	X	X			SITE FURNISHING	F6	STAGE CURTAIN	X	X			STAGE	F7	WRESTLING MAT	X	X			GYM	F8	GREEN SCREEN, FREE-STANDING	X	X			MAKERSPACE	F10	STORAGE SHELVING	X	X			MEDIA CENTER	F10	INSTRUMENT LOCKERS	X	X			MUSIC ROOM	F11	FLAMMABLE MATERIALS CABINET	X	X			SCIENCE LABS	F12	WALL PADS	X	X			GYM	F13	LOCKERS	X	X			KITCHEN	S1	KILN DRYING RACK	X	X			ART CLASSROOM	S2	ADJUSTABLE STORAGE SHELVING	X	X			ART CLASSROOM	S3	ADJUSTABLE STORAGE SHELVING	X	X			JANITOR	TA-1	FRAMELESS MIRROR	X	X			RESTROOMS	TA-2	GRAB BAR	X	X			RESTROOMS	TA-3	TOILET PAPER DISPENSER	X	X			RESTROOMS	TA-4	PAPER TOWEL DISPENSER	X	X			RESTROOMS	TA-5	SOAP DISPENSER	X	X			RESTROOMS	TA-6	SANITARY NAPKIN DISPENSER	X	X			RESTROOMS	TA-7	SANITARY NAPKIN DISPOSAL	X	X			RESTROOMS	TA-8	WHITEBOARD	X	X			CLASSROOM	TA-9	SHOWER CURTAIN ROD	X	X			EC TOILET/SHOWER	TA-9	SHOWER CURTAIN & HOOKS	X	X			EC TOILET/SHOWER	TA-10	IQOP AND BROOM HOLDER	X	X			JANITOR	TA-12	PRIVACY CURTAIN	X	X			EC TOILET/SHOWER	TA-13	ELECTRIC HAND DRYER	X	X			RESTROOMS	TA-14	TACK STRIP	X	X			ART CLASSROOM	TA-14	TACK STRIP	X	X			CORRIDOR	TA-15	ADJUSTABLE HEIGHT CHANGING TABLE	X	X			EC TOILET/SHOWER	TA-16	TOILET PARTITIONS	X	X			RESTROOMS	W	WASHER	X	X			GYM, EC	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th><th>Description</th><th>Date</th></tr> </thead> <tbody> <tr> <td>1</td><td>Addendum #1</td><td>6-7-2018</td></tr> </tbody> </table> <p>ISSUED: CONSTRUCTION DOCUMENTS</p> <p>DATE: 05/24/2018 SCALE: As indicated SHEET NAME: GENERAL NOTES / ABBREVIATIONS / LEGENDS AND SYMBOLS SHEET NUMBER:</p>																		No.	Description	Date	1	Addendum #1	6-7-2018
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<p>CEILING PLAN LEGEND</p> <p>SUSPENDED ACOUSTICAL CEILING: 1'X1', 2'X2', & 2'X4' SYSTEMS</p> <p>TRACK LIGHTING</p> <p>SUSPENDED UPLIGHT</p> <p>SUSPENDED UPLIGHT</p> <p>STRIP LIGHTING FIXTURE LENGTH VARIES</p> <p>COVE LIGHT</p> <p>30" DEEP RADIANT</p> <p>PHOTO CELL</p> <p>SMOKE DETECTOR</p> <p>INTERCOM SPEAKER</p> <p>CLASSROOM SPEAKER</p> <p>AUDIO/VISUAL FIXTURE</p> <p>CAMERA</p> <p>TONE/VISUAL FIXTURE</p> <p>CCTV SURVEILLANCE FIXTURE</p> <p>GYPSUM WALLBOARD, CEMENT OR GYP PLASTER</p> <p>EXPOSED STRUCTURE</p> <p>EXISTING TO REMAIN</p> <p>WOOD T&G CEILING</p> <p>SUPPLY DIFFUSER</p> <p>SUPPLY DIFFUSER</p> <p>RETURN AIR GRILLE</p> <p>RETURN REGISTER</p> <p>EXHAUST GRILLE</p> <p>FORCE AIR DIFFUSER</p> <p>SIDE WALL DIFFUSER</p> <p>2' X 4' LIGHT FIXTURE</p> <p>2' X 2' LIGHT FIXTURE</p> <p>1' X 2' LIGHT FIXTURE</p> <p>1' X 1' LIGHT FIXTURE</p> <p>LIGHT FIXTURE LENGTH VARIES</p> <p>WALL MOUNTED LIGHT FIXTURE</p> <p>WALL MOUNTED LIGHT FIXTURE</p> <p>RECESSED DOWNLIGHT</p>																		<p>MATERIAL LEGEND</p> <p>EARTH</p> <p>GLASS</p> <p>AGGREGATE BASE COURSE</p> <p>SAND, MORTAR, GYP BD, GROUT, PLASTER</p> <p>CONCRETE</p> <p>CONCRETE MASONRY UNIT</p> <p>BRICK</p> <p>STEEL</p> <p>RIGID INSULATION/SPRAY FOAM INSULATION</p> <p>BATT INSULATION</p> <p>ACOUSTICAL PANEL</p> <p>PLYWOOD, OSB</p> <p>FINISH WOOD</p> <p>DIMENSIONAL LUMBER, CONTINUOUS</p> <p>DIMENSIONAL LUMBER BLOCKING</p> <p>EXISTING</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

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WINNABOW, NC 28479

KEY PLAN

AREA A
AREA Bn
GYM
AREA Bc
MEDIA

REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: As indicated
SHEET NAME:
GENERAL NOTES / ABBREVIATIONS / LEGENDS AND SYMBOLS
SHEET NUMBER:

G-031

PROJECT NUMBER: 1720601.00 COPYRIGHT © 2017 KSQ ARCHITECTS, PC

WALL TYPE NOTES

- 1 ALL WALLS ARE TYPE A6.0 UNLESS NOTED OTHERWISE.
- 2 USE TYPE 'X' GYP. BOARD THROUGH OUT UNLESS NOTED OTHERWISE.
- 3 IN ALL PARTITIONS DO NOT PLACE ELECTRICAL BOXES OR SIMILAR DEVICES BACK TO BACK OR SIDE TO SIDE IN MANNER TO DIMINISH ACOUSTIC RATING. CAULK PER MANUFACTURER'S RECOMMENDATION TO ALL BOXES.
- 4 REFER TO LIFE SAFETY PLANS, SHEET A04, FOR LOCATION OF FIRE RATED WALLS.
- 5 PROVIDE SOUND BATT INSULATION IN ALL UNIT DEMISING WALLS, UNIT CORRIDOR WALLS, BATHROOM WALLS, ELEVATOR WALLS.
- 6 AT PENETRATIONS IN RATED WALLS EXCEEDING 96 SQ. INCHES, LINE THE PENETRATION WITH THE SAME LAYERS OF GYP. BD. AS THE WALL. ONE LAYER FIRE RATED GYPSUM BOARD FOR 1 HR. WALLS AND TWO LAYERS FOR 2 HR. WALLS.
- 7 PROVIDE TILE BACKER BOARD BEHIND ALL CERAMIC TILE.
- 8 AT WALLS WITH TILE, REPLACE 5/8" TYPE 'X' GYP. BD. WITH 5/8" CEMENT BOARD AND WATERPROOF MEMBRANE BEHIND ALL TILE AND 5/8" MR GYP. BD. ABOVE TILE WHERE TILE STOPS AT 5'-0" AFF. SEE INTERIOR ELEVATIONS.
- 9 ALL TOP TRACKS ON NON LOAD BEARING WALLS TO BE SLIP TRACKS.
- 10 PROVIDE 1/2" SPRAY APPLIED INSULATION ONLY WHERE METAL STUD MEETS THE ROOF.
- 11 ALL FOURTH FLOOR WALLS GO TO BOTTOM OF ROOF TRUSS EXCEPT WHERE NOTED. WALL TYPES WITH 'RD' BESIDE THEM DESIGNATE PARTITIONS THAT WILL GO TO BOTTOM OF ROOF DECK.

PARTITION TYPE LEGEND

WALL TYPE	RATING
A = ACOUSTICAL WALL	.0 = 30 MINUTE RATING
C = CHASE WALL	1 = 1 HOUR RATING
F = FURRING WALL	2 = 2 HOUR RATING
M = MASONRY WALL	
P = PARTIAL HEIGHT WALL	
S = SHAFT WALL	
T = SHEAR WALL	

STUD SIZE	WALL TAG KEY
X = NO FRAMING MEMBER	X = NO FRAMING MEMBER
0 = 7/8"	0 = 7/8"
1 = 1 5/8"	1 = 1 5/8"
2 = 2 1/2"	2 = 2 1/2"
3 = 3 5/8"	3 = 3 5/8"
4 = 4"	4 = 4"
6 = 6"	6 = 6"
8 = 8"	8 = 8"

WALL TAG KEY	RATING
A3.1	55 - STC RATING
55	INDICATES INSULATION
55	INDICATES INSULATION

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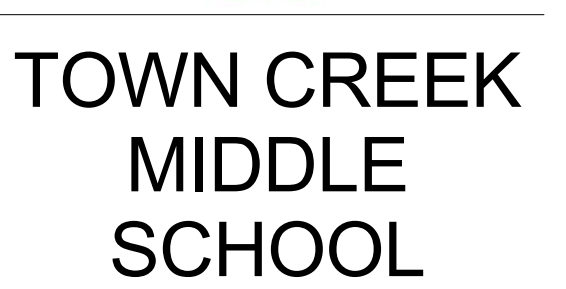
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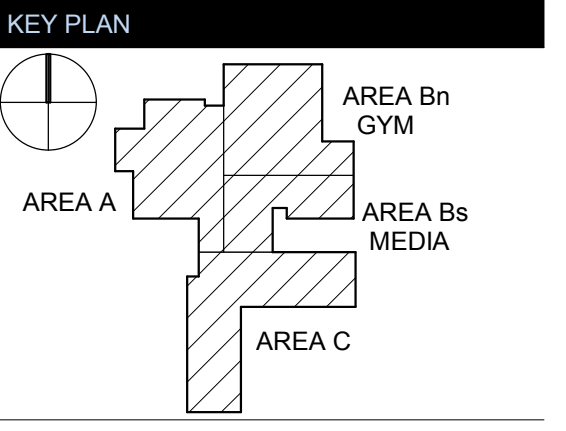
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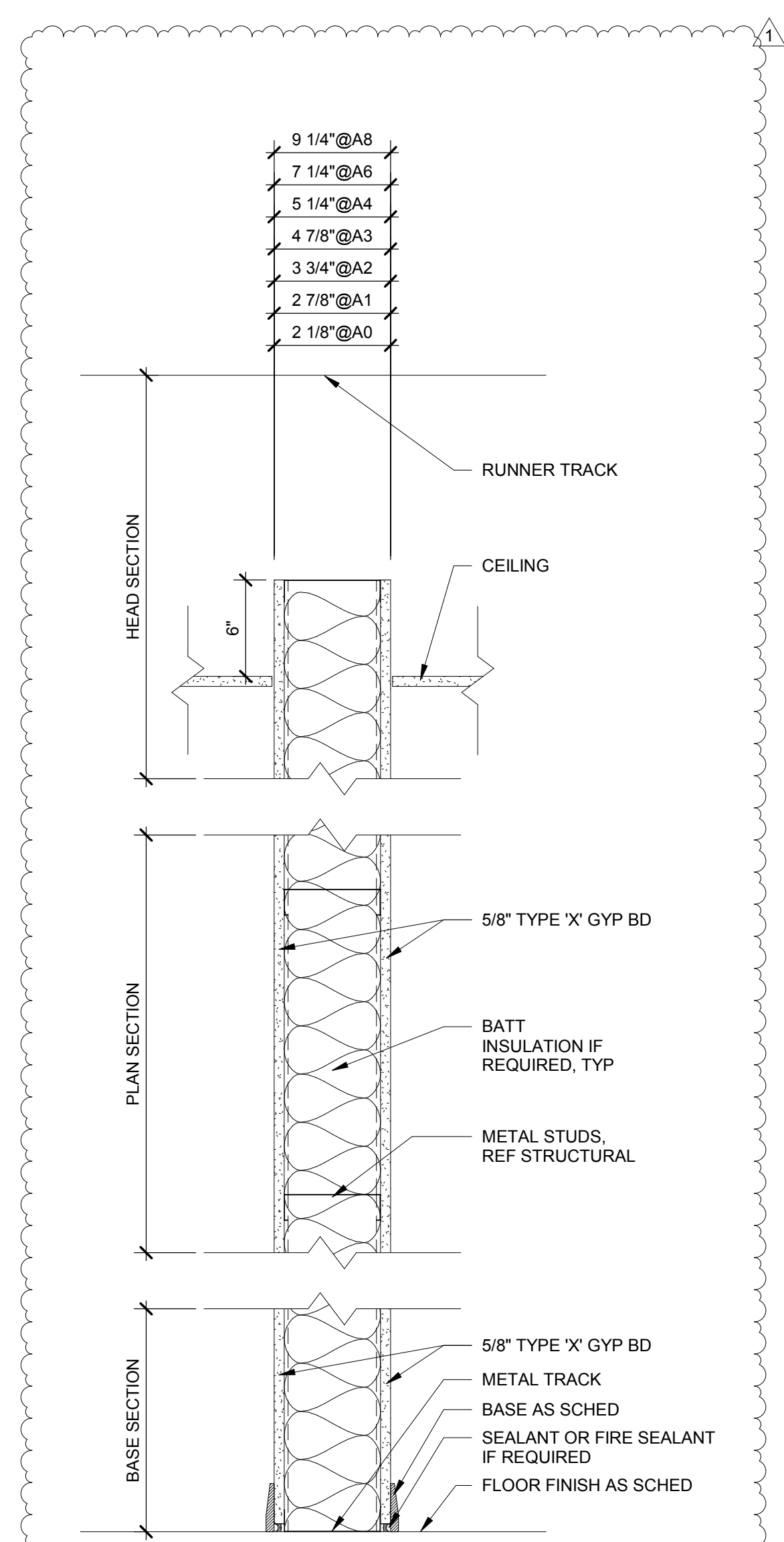
REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

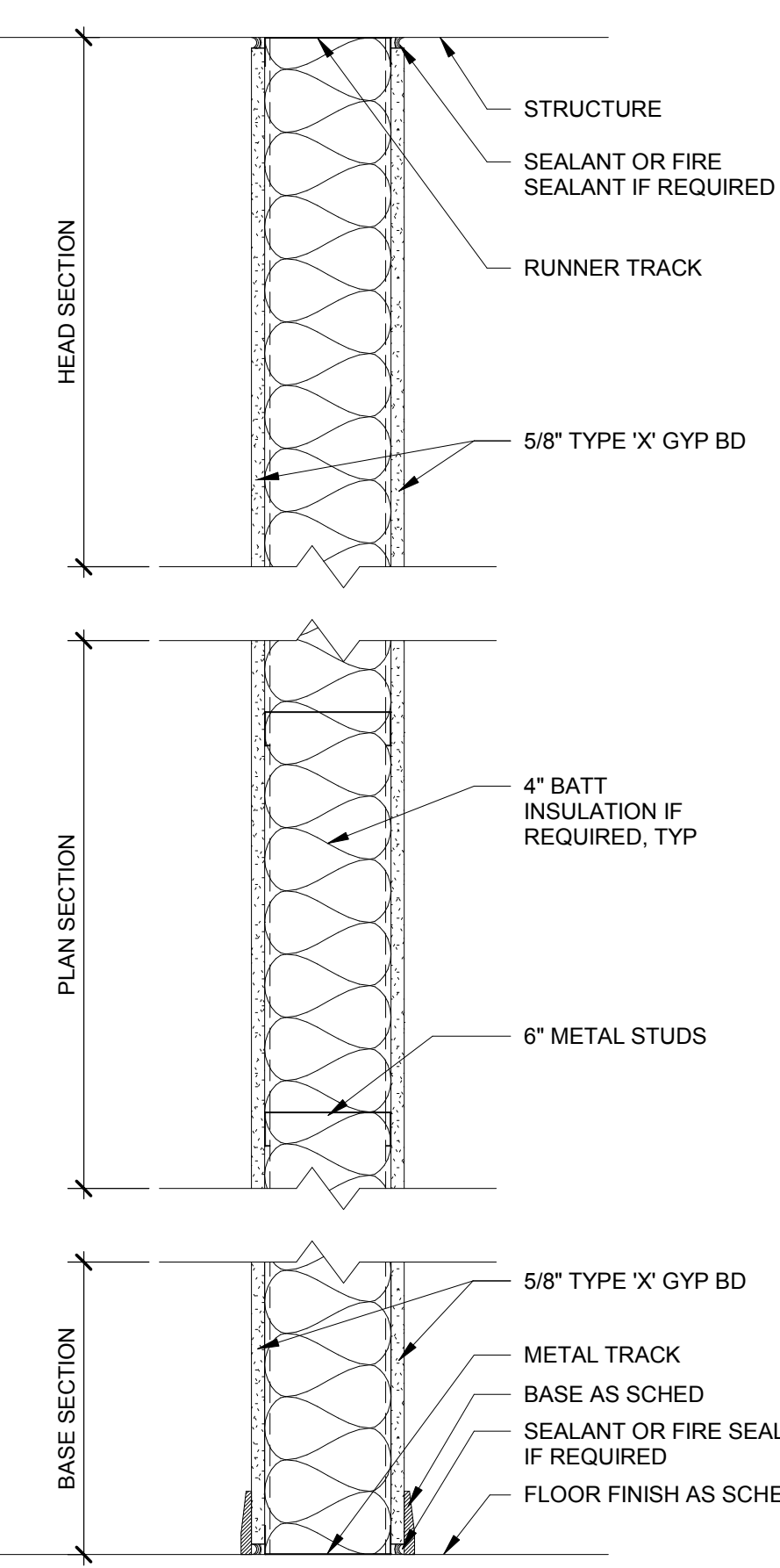
ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: INTERIOR WALL TYPES
SHEET NUMBER:

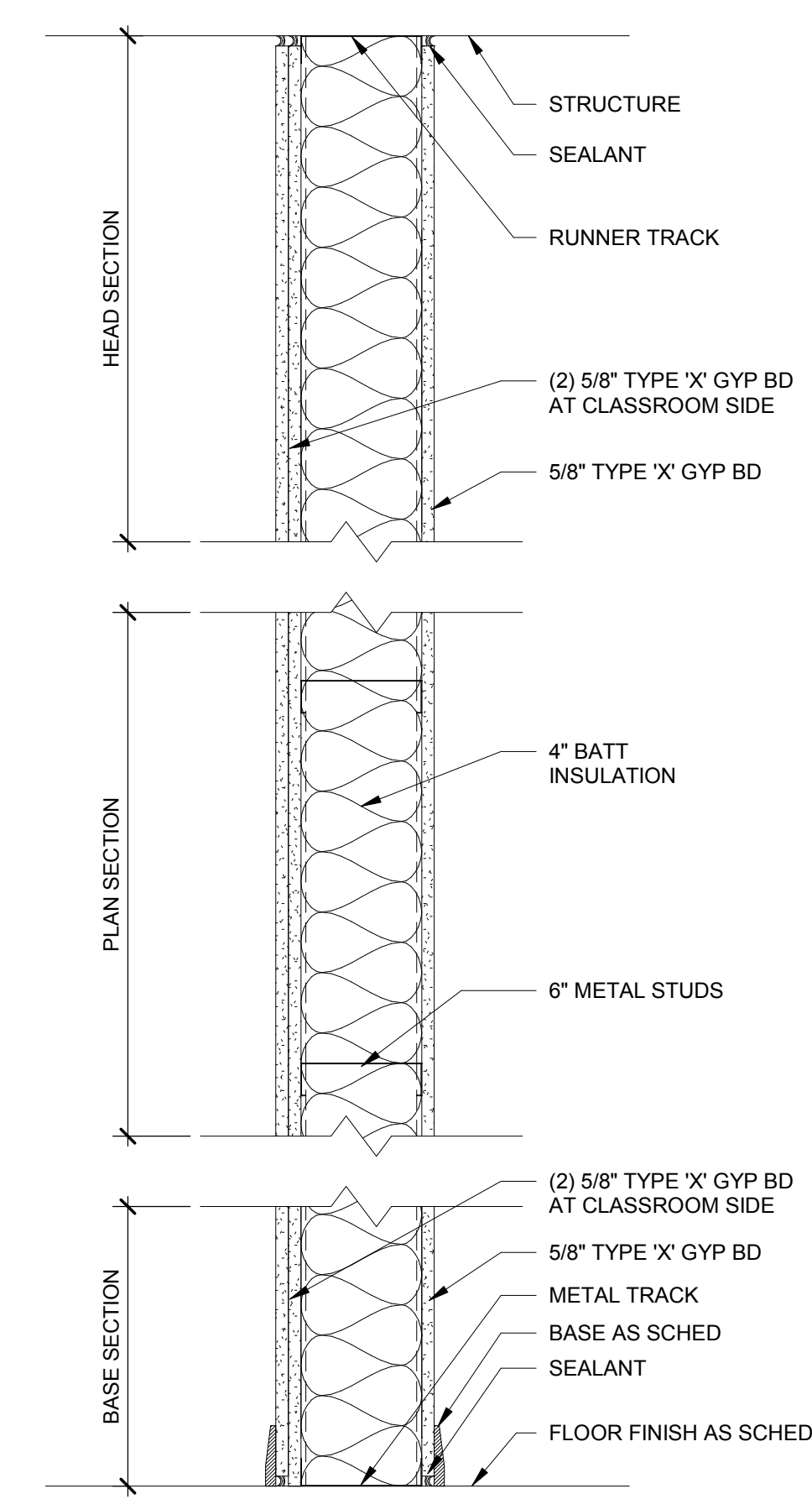
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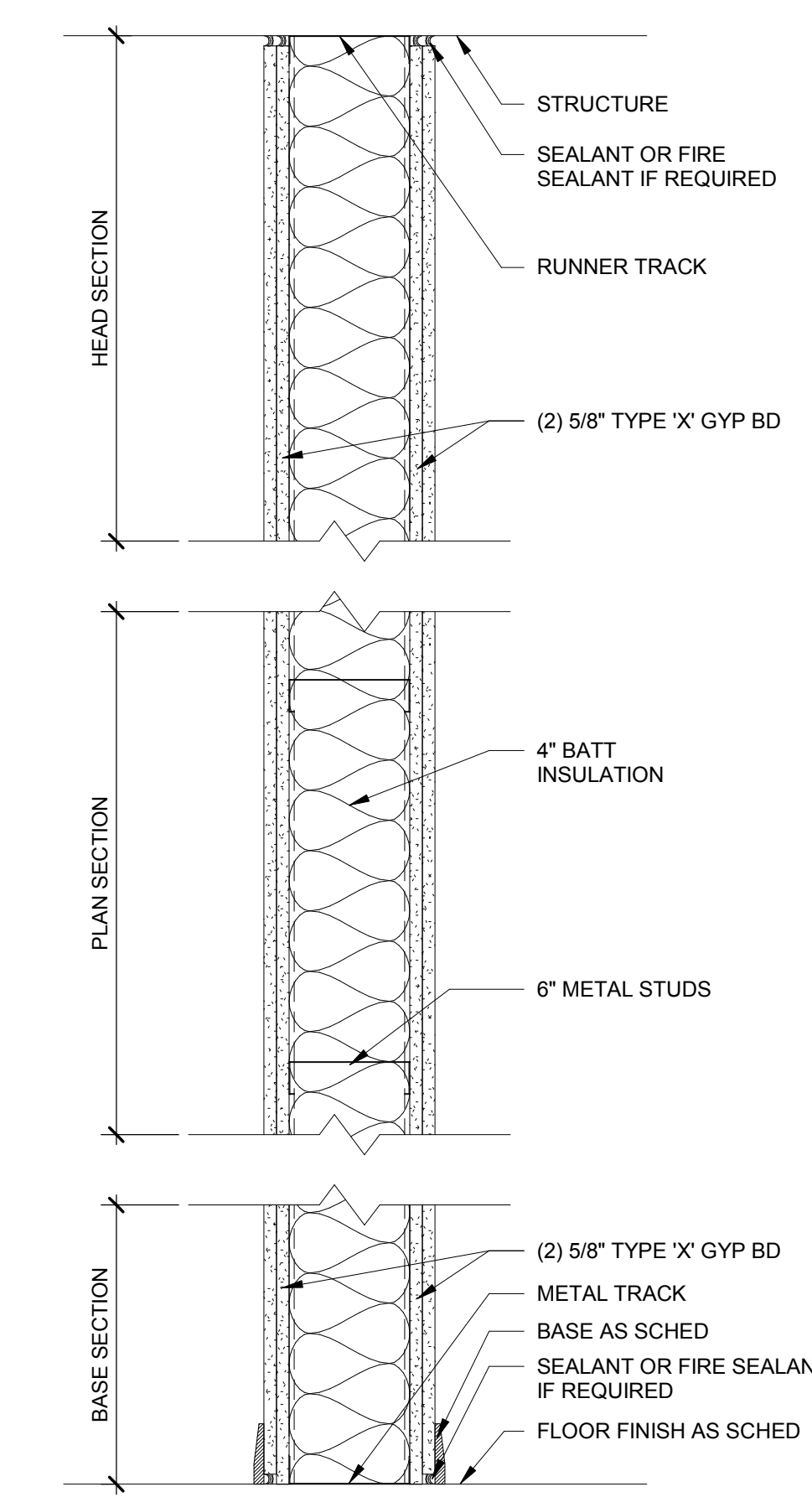
WALL TYPE A
 ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS



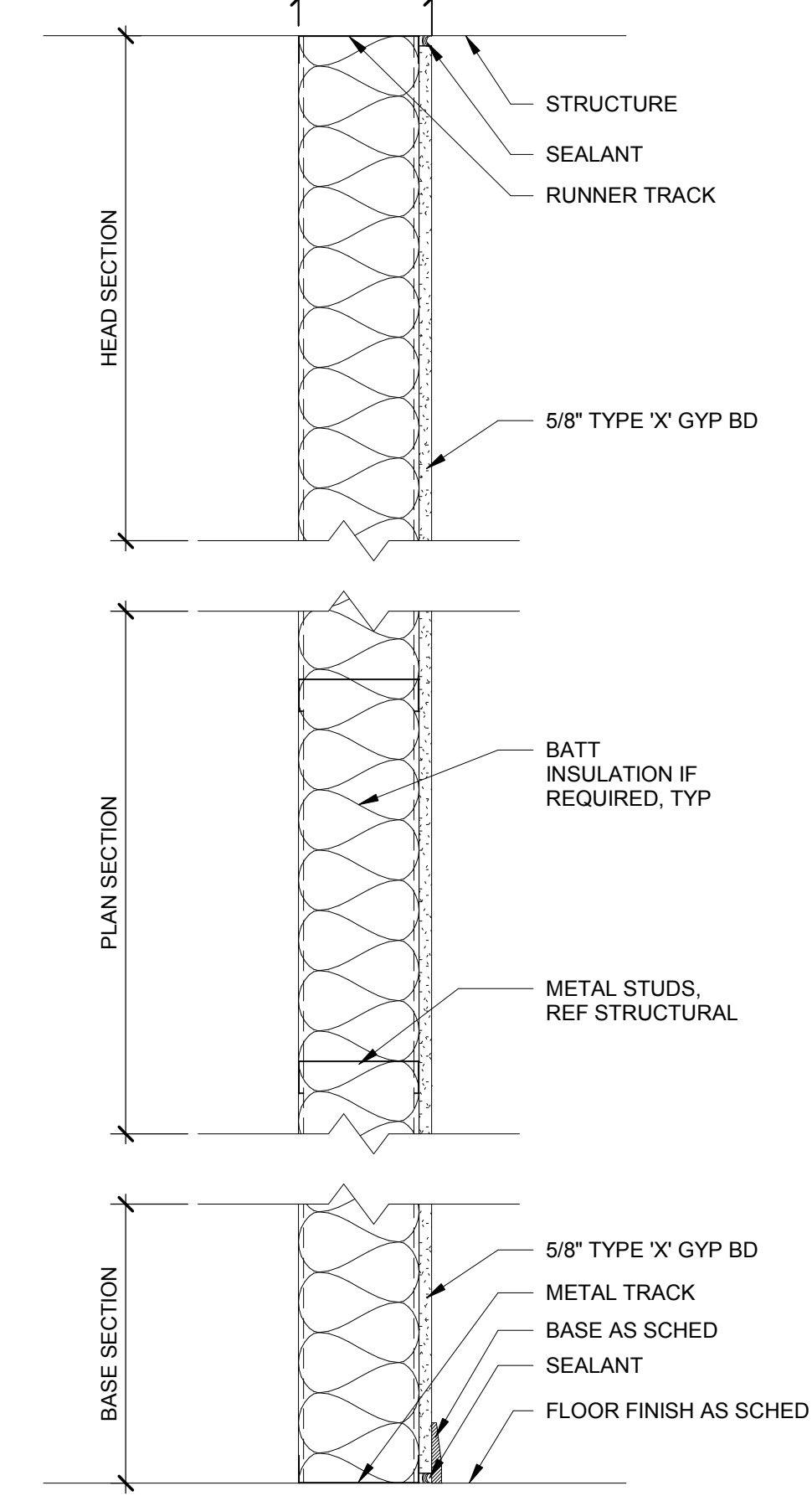
WALL TYPE A6i/45
 ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS BATT INSULATION IN CAVITY STC 45



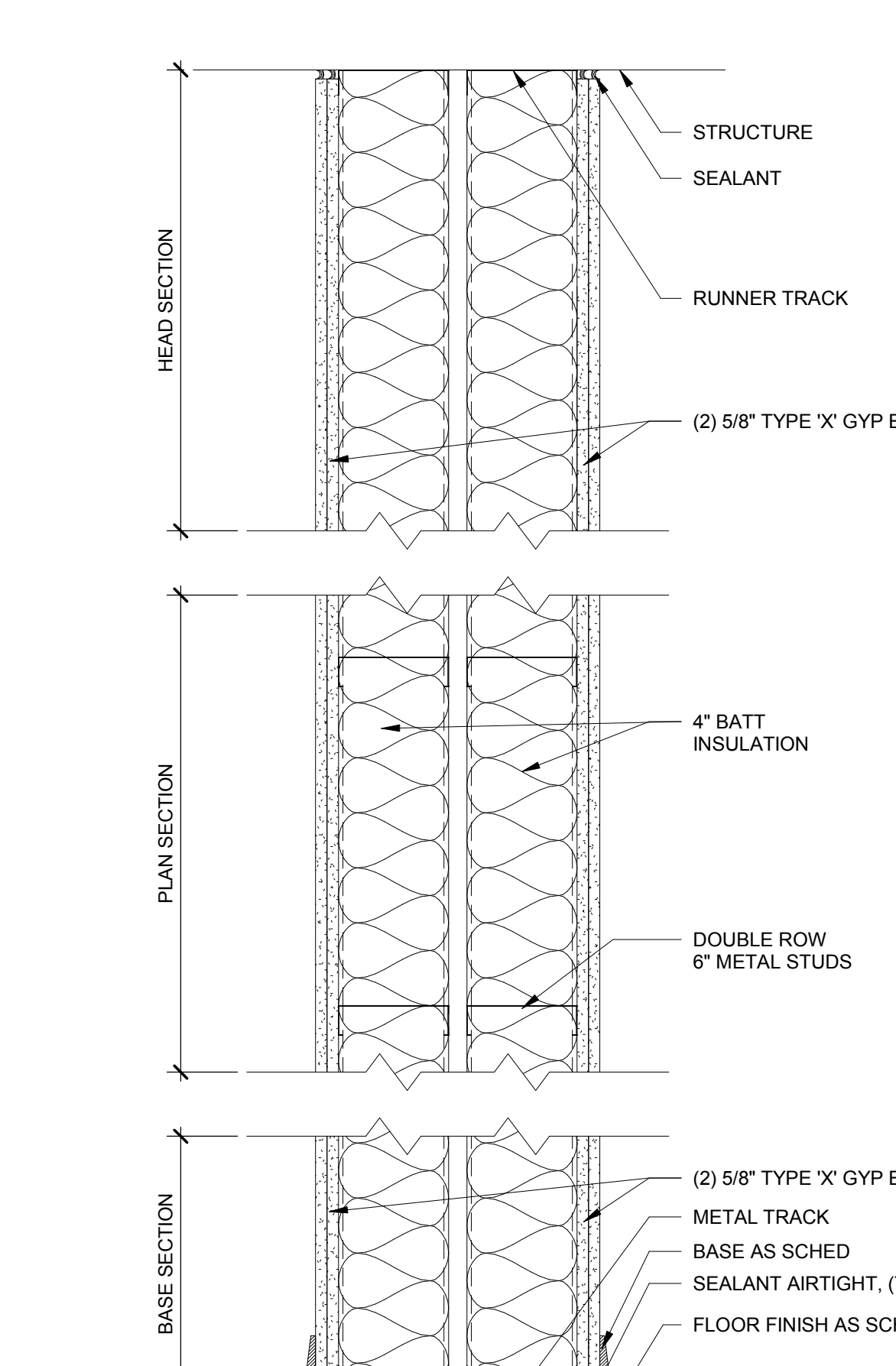
WALL TYPE A6i/50
 TWO LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD ON ONE SIDE AND ONE LAYER OF GYPSUM WALLBOARD ON THE OTHER SIDE OF METAL STUDS BATT INSULATION IN CAVITY STC 50



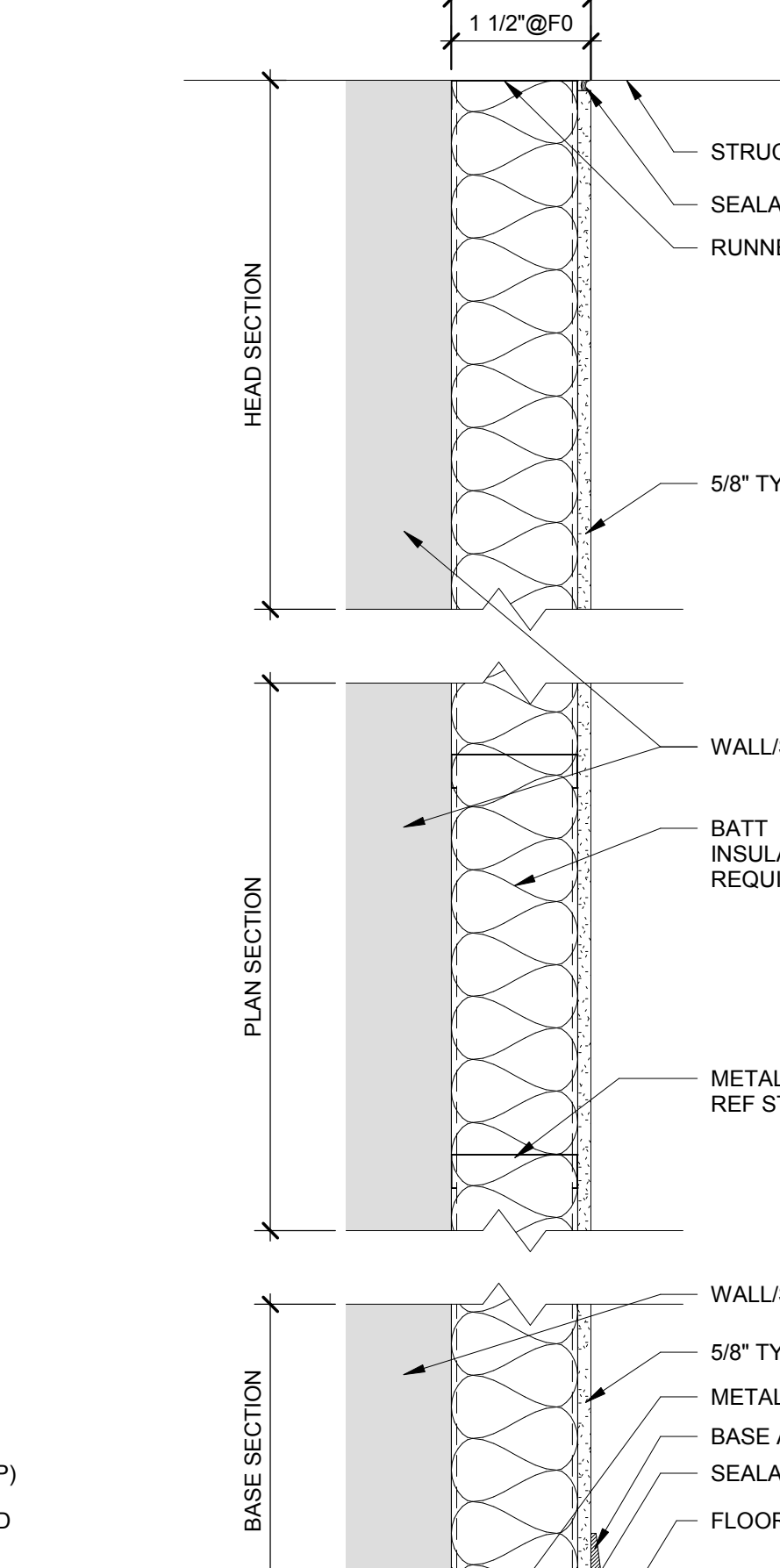
WALL TYPE A6i/55
 TWO LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS BATT INSULATION IN CAVITY STC 55



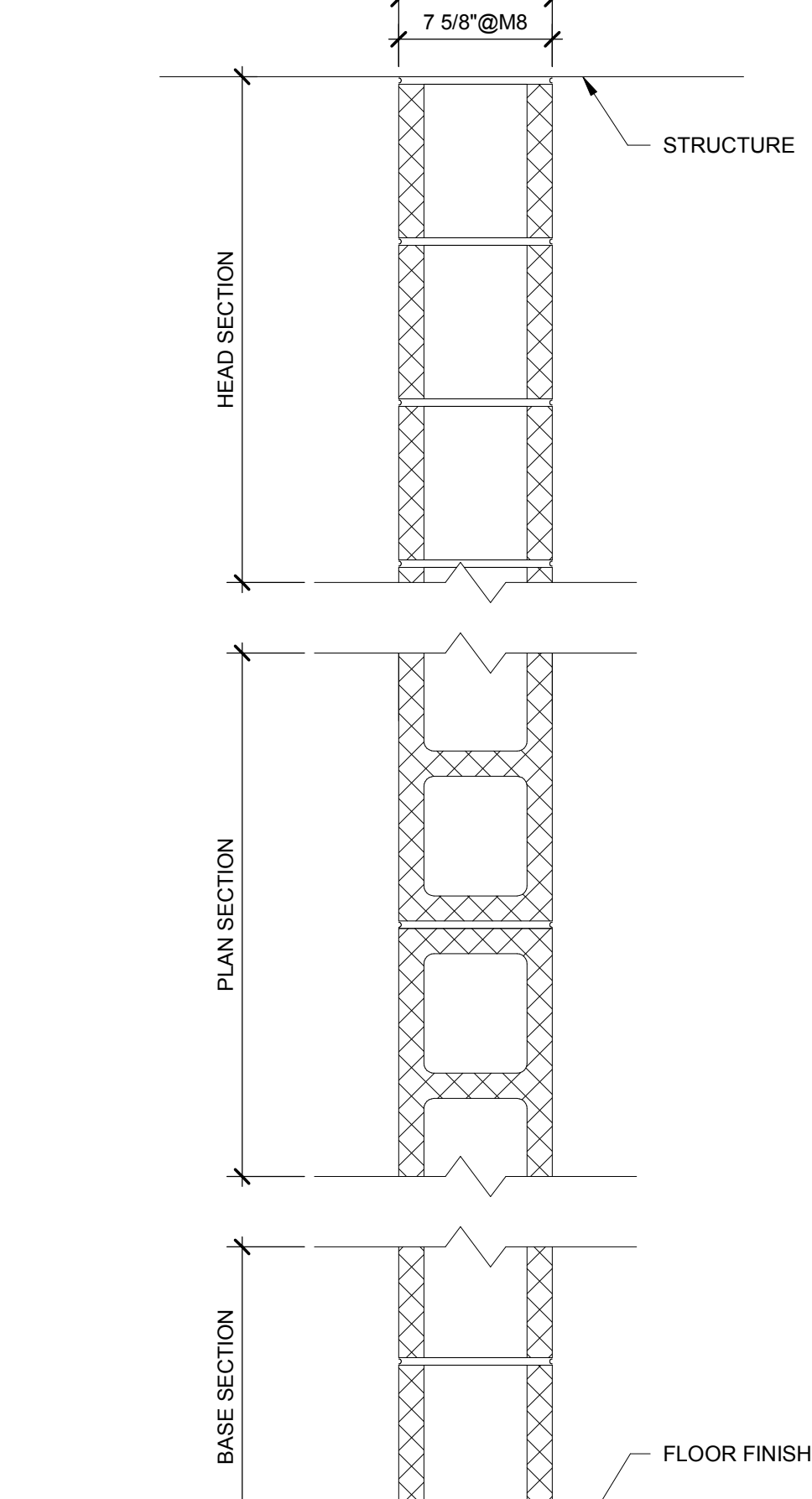
WALL TYPE C
 ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD ON ONE SIDE OF METAL STUDS



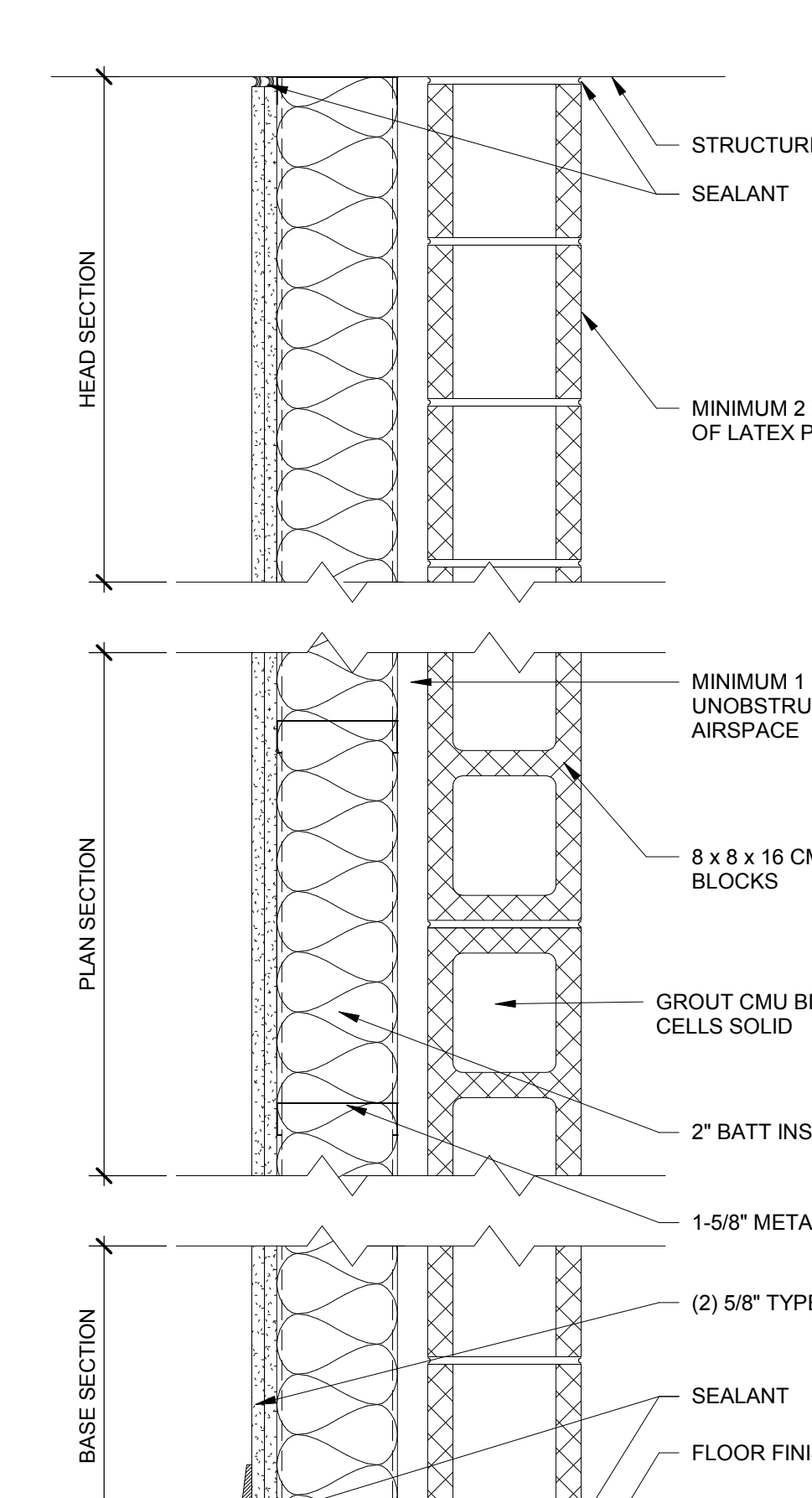
WALL TYPE C6i/60
 TWO LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS DOUBLE ROW 6" METAL STUDS BATT INSULATION IN CAVITY STC 60



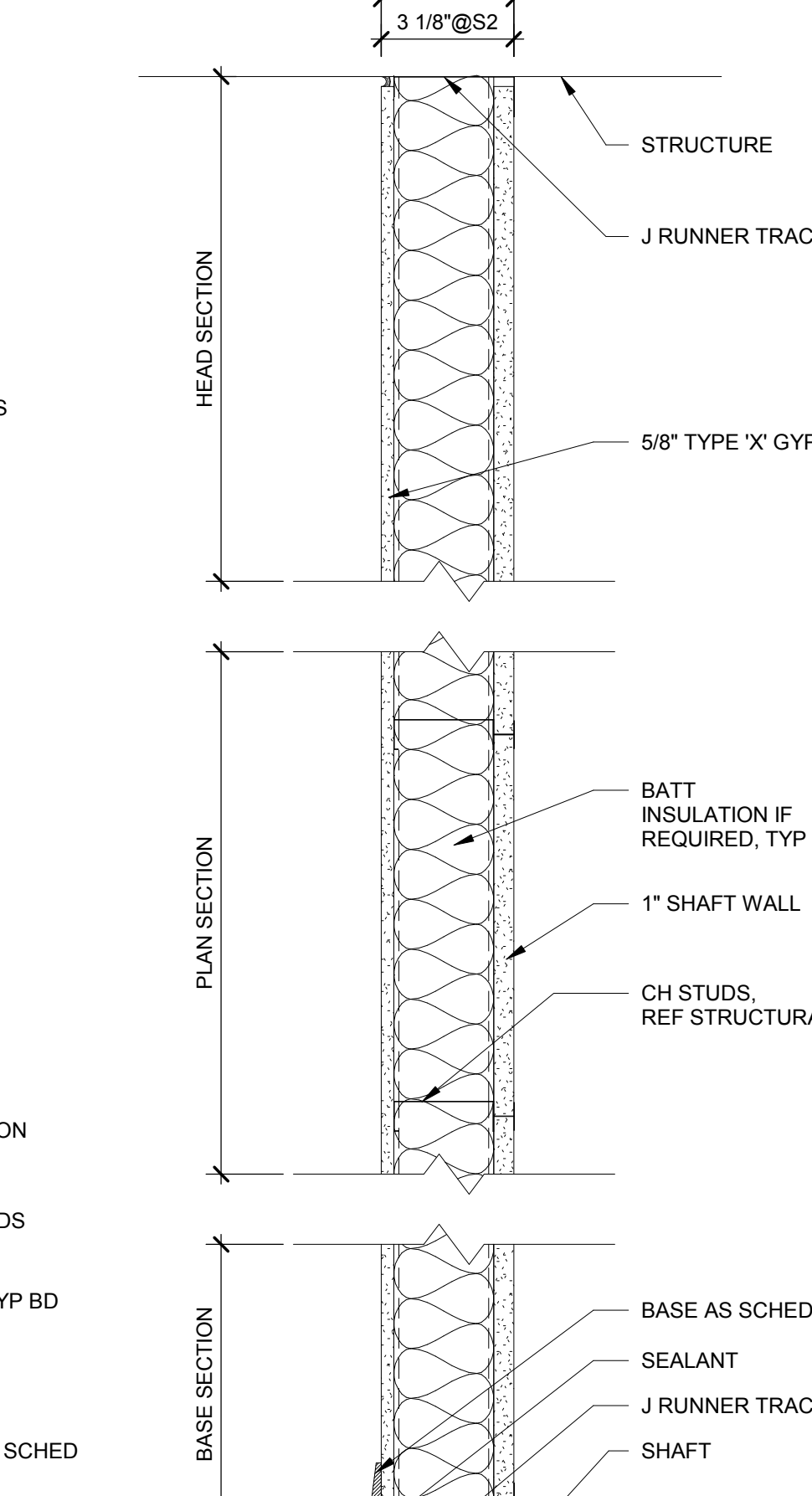
WALL TYPE F
 ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD ON ONE SIDE OF METAL STUDS WALL/STRUCTURE BATT INSULATION IN CAVITY STC 60



WALL TYPE M
 CONCRETE MASONRY UNIT 1 1/2" METAL STUDS



WALL TYPE M8i/60
 CONCRETE MASONRY UNIT 1 5/8" METAL STUDS 2" BATT INSULATION



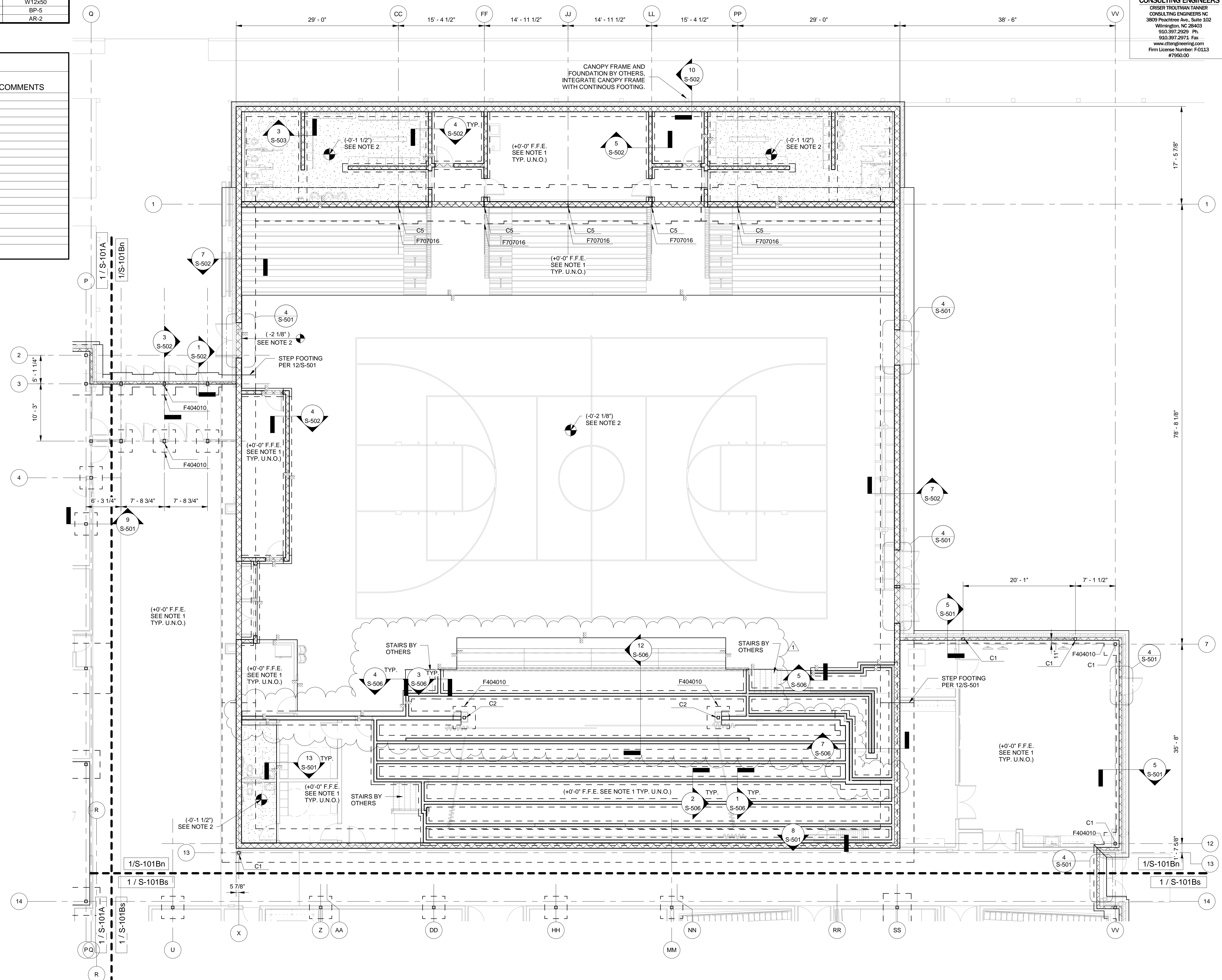
WALL TYPE S
 ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD ON ONE SIDE OF CH STUD ONE LAYER 1" SHAFT WALL



COLUMN SCHEDULE					
MARK	C1	C2	C3	C4	C5
COLUMN SIZE	HSS6x6x1/4	HSS6x6x3/8	HSS8x8x5/8	HSS10x10x1/2	W12x50
BASE PLATE MARK	BP-1	BP-2	BP-3	BP-4	BP-5
ANCHOR BOLT MARK	AR-1 (U.N.O.)	AR-2	AR-2	AR-2	AR-2

NOTE: SEE S-502 FOR BASE PLATE AND ANCHOR BOLT DETAILS.

STRUCTURAL FOUNDATION SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINF.	COMMENTS
F404010	4'-0"	4'-0"	1'-0"	(9) #5 EACH WAY (5) #5 E.W. BOTT.	
F505010	5'-0"	5'-0"	1'-0"	(5) #6 E.W. BOTT.	
F606010	6'-0"	6'-0"	1'-0"	(6) #6 E.W. BOTT.	
F609016	6'-0"	6'-0"	1'-6"	(6) #8 EACH WAY	
F707016	7'-0"	7'-0"	1'-6"	(6) #5 E.W. T&B	
F808016	8'-0"	8'-0"	1'-6"	(16) #4 EACH WAY	
F909016	9'-0"	6'-0"	1'-6"	(5) #7 T&B LONG., (9) #6 BOTT. TRANS.	
F909016	9'-0"	9'-0"	1'-6"	(7) #7 E.W. T&B	
F2165016	21'-6"	5'-0"	1'-6"	(4) #7 T&B LONG., (23) #6 T&B TRANS.	
F2866016	28'-6"	6'-0"	1'-6"	(5) #9 T&B LONG., (44) #6 T&B TRANS.	
F2866016	28'-6"	6'-0"	1'-6"	(5) #9 T&B LONG., (44) #6 T&B TRANS.	
F3505020	35'-0"	6'-0"	2'-0"	(5) #8 T&B LONG., (39) #8 T&B TRANS.	
F3605020	36'-0"	5'-0"	2'-0"	(4) #10 T&B LONG., (37) #6 T&B TRANS.	
F4307020	43'-0"	7'-0"	2'-0"	(8) #8 T&B LONG., (43) #8 T&B TRANS.	
F4607020	46'-0"	7'-0"	2'-0"	(7) #8 TOP LONG., (21) #8 BOTT. LONG., (46) #8 T&B TRANS.	
F11011016	11'-0"	11'-0"	1'-6"	(8) #7 E.W. T&B	
F14014020	14'-0"	14'-0"	2'-0"	(10) #8 E.W. T&B	
F-ELEVATOR	11'-11 1/4"	10'-3 1/4"	1'-6"	#6 @ 9" E.W. TOP & BOT. #6 @ 9" O.C. E.W. T&B	



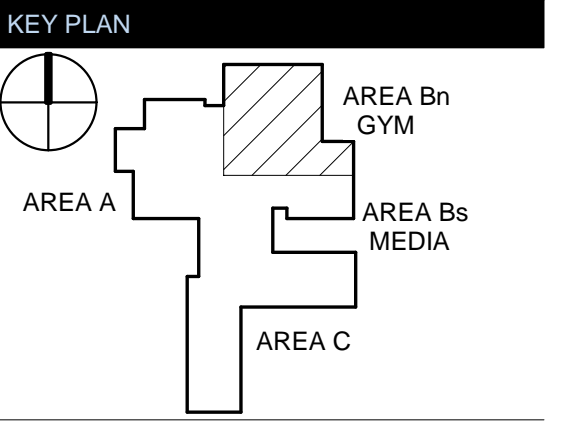
- FOUNDATION PLAN NOTES:**
- TYPICAL SLAB-ON-GRADE SHALL BE 6" IN THE GYM AND 4" U.N.O. 3000 PSI CONCRETE REINFORCED W/ 6x6-W2.9xW2.9 WWR ON VAPOR BARRIER OVER 6" POROUS STONE FILL ON COMPACTED SUBGRADE/FILL, U.N.O.
 - HATCHED AREA DENOTES SLAB DEPRESSIONS. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS VERIFY DEPRESSION DEPTH.
 - C - INDICATES COLUMN MARK - SEE COLUMN SCHEDULE.
 - F - INDICATES FOOTING MARK - SEE FOOTING SCHEDULE.
 - XB - INDICATES STEEL CROSS-BRACING.
 - CB - INDICATES STEEL COMPRESSION BRACING.
 - FINISH FLOOR ELEVATION - SEE ARCH DRAWINGS.
 - TYPICAL TOP OF FOOTING DEPTH AT EXTERIOR IS 2'-0" BELOW FINISHED FLOOR & 1'-0" AT INTERIOR, U.N.O.
 - PROVIDE CONTROL JOINTS (C.J.) USING SAWED JOINTS (S.J.) OR KEYED JOINTS (K.J.) AS REQUIRED BY CONCRETE PLACEMENT. DETAILS 1/S-501 RESPECTIVELY, BUT SHALL NOT BE LOCATED MORE THAN 15' APART AND SHALL HAVE AREAS LIMITED TO A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 OR LESS, U.N.O. FOR SLABS. SAWCUT PER SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR MASONRY WALL JOINT LOCATIONS. SEE 1/S-504 FOR JOINT DETAIL.
 - PROVIDE COLUMN ISOLATION JOINTS AT EACH COLUMN PER 4/S-501.
 - COORDINATE THICKENED FOOTING FOR LOAD-BEARING STAGE KNEEWALLS WITH SECTIONS ON SHEET S-506.
 - 12" CMU GYM WALLS IN THE "FIELD" ZONE SHALL BE REINFORCED WITH #8 @ 32" O.C. FULL HEIGHT AND FULLY GROUTED. 12" CMU WALLS WITHIN 12'-0" OF GYM WALL CORNERS SHALL BE REINFORCED WITH #8 @ 16" O.C. AND FULLY GROUTED.
 - 12" LOCKER ROOM WALLS SHALL BE REINFORCED WITH #4 @ 48" O.C. FULL HEIGHT AND GROUTED AT VERTICAL BAR LOCATIONS ABOVE GRADE AND IN ALL CELLS BELOW GRADE.

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WINNABOW, NC 28479



No.	Description	Date
1	Addendum #1	TBD

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: FOUNDATION PLAN - GYM - AREA B NORTH
SHEET NUMBER:

S-101Bn



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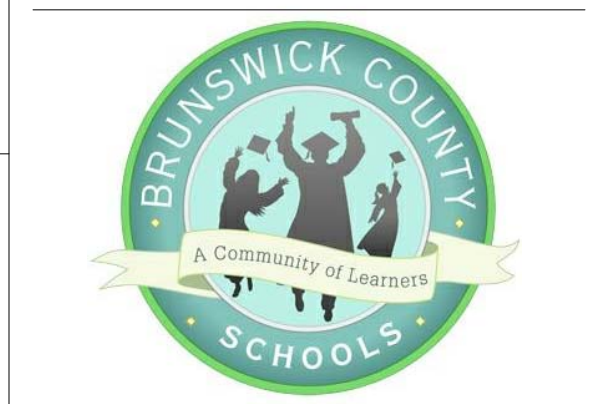
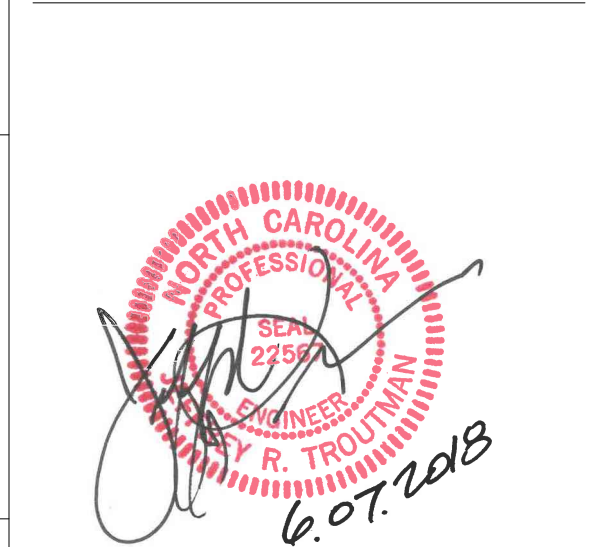
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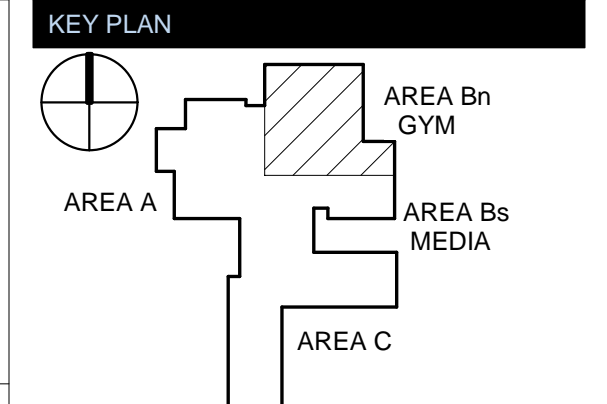
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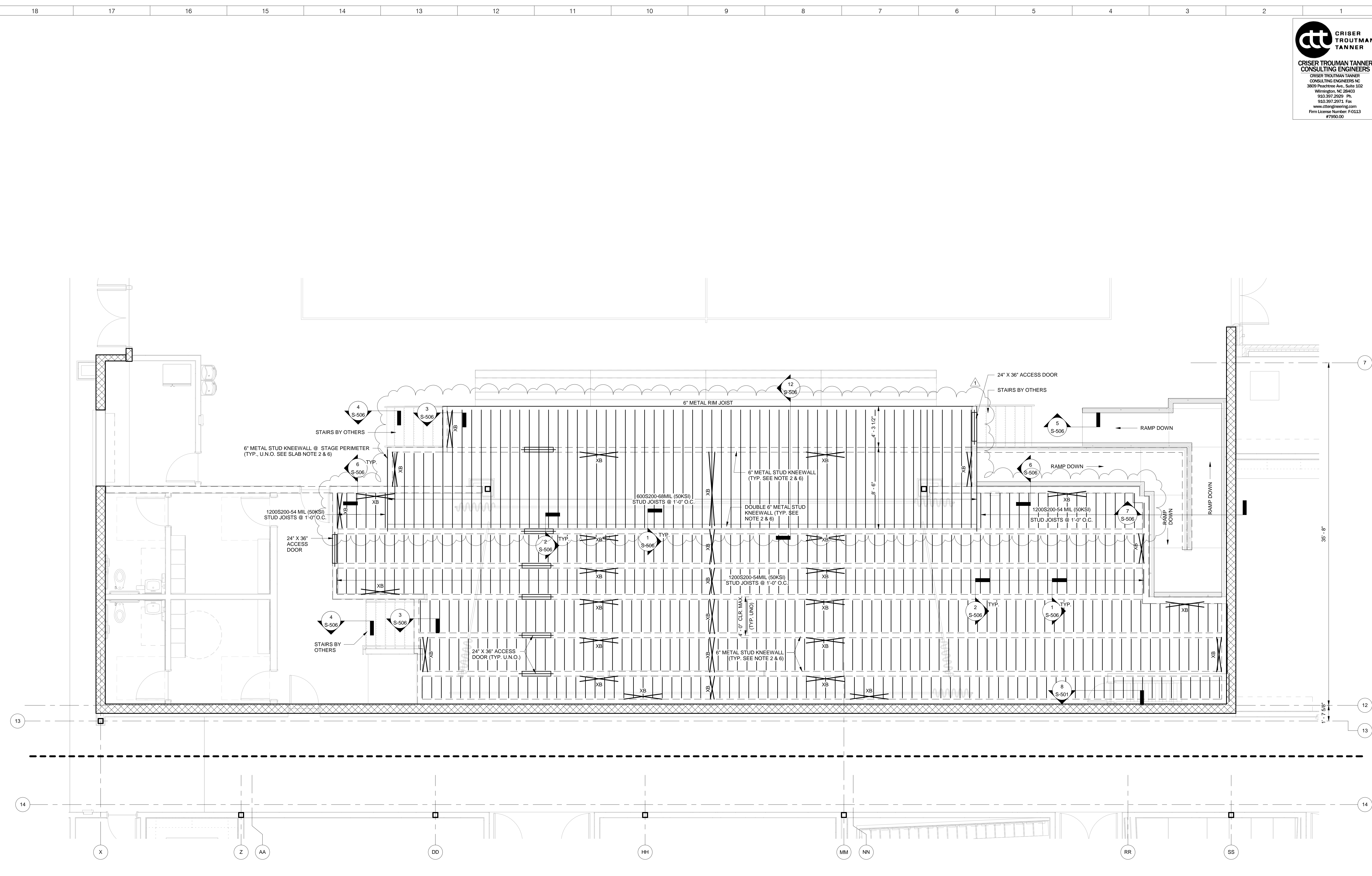
REVISIONS

No.	Description	Date
1	Addendum #1	TBD

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/4" = 1'-0"
SHEET NAME: STAGE FRAMING ENLARGED PLAN
SHEET NUMBER:

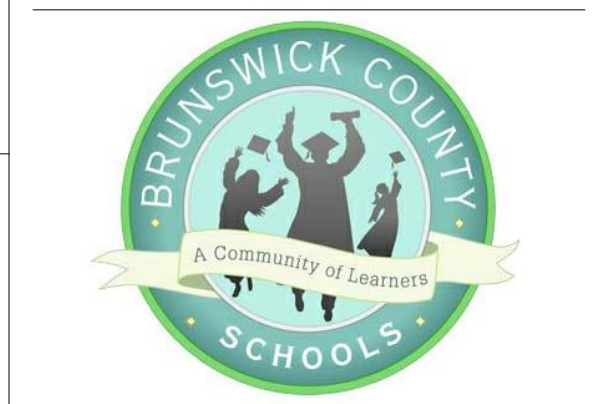
S-102Bn



STAGE FRAMING ENLARGED PLAN - AREA B NORTH
1/4" = 1'-0" 1

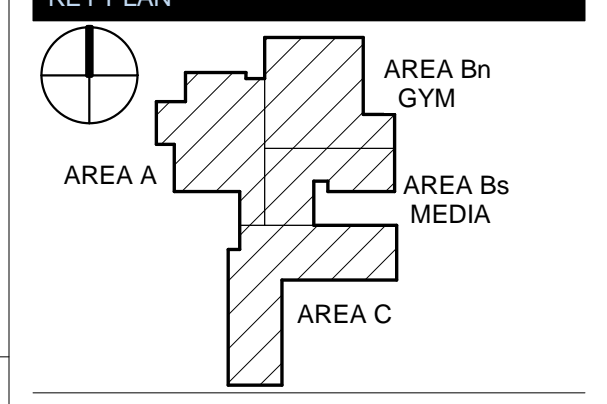
- STAGE FRAMING PLAN NOTES:**
- FASTENERS FOR CONNECTING STAGE PLYWOOD SUBFLOORING TO METAL STUD JOIST FRAMING: HILTI X-GPN 37 MX POWER-DRIVEN, KNURLED SHANK FASTENERS FOR STRUCTURAL WOOD PANEL FASTENING OR EQUIVALENT WITH THE FOLLOWING FASTENER SPACINGS:
 - PERIMETER EDGES OF SUBFLOORING PANELS: 6" O.C.
 - FIELD OF SUBFLOORING PANELS (ALONG STUD JOIST FRAMING): 12" O.C.
 - PROVIDE SOLID BLOCKING AT STUD JOIST MID-SPAN & BEARING LOCATIONS.
 - XB INDICATES STEEL CROSS-BRACING.
 - PROVIDE 1200S200-54 MILS (33 KSI) RIM JOISTS AT PERIMETER OF STUD JOIST FRAMING ENDS AND AT OPENINGS, U.N.O.
 - STAGE PLYWOOD SUBFLOORING SHALL BE 3/4" APA RATED (STURD-I-FLOOR 24 OR EQUIVALENT) SHEATHING.
 - PROVIDE 600S200-43 MILS (33 KSI) METAL STUDS @ 1'-0" O.C. TYPICAL KNEEWALL SPACING & JOIST SPAN @ 4'-0" CLEAR; MAX. JOIST CLEAR SPAN UP TO 5'-4". PROVIDE METAL STUD DIRECTLY BELOW STUD JOIST FRAMING.
 - VERIFY ALL STAGE DIMENSION WITH ARCHITECTURAL PLANS.
 - COORDINATE ALL FLOOR OPENINGS WITH ARCHITECTURAL DWGS. FOR SIZE AND LOCATION.
 - COORDINATE THICKENED FOOTINGS FOR LOADBearing KNEEWALLS WITH DWG. S-101Bn.
 - COLD-FORMED VENDOR MAY MAKE SLIGHT ADJUSTMENT TO SUIT PRODUCT AVAILABILITY KEEPING EQUIVALENT MEMBERS FOR THE DESIGN.
 - VERIFY ALL STAGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479

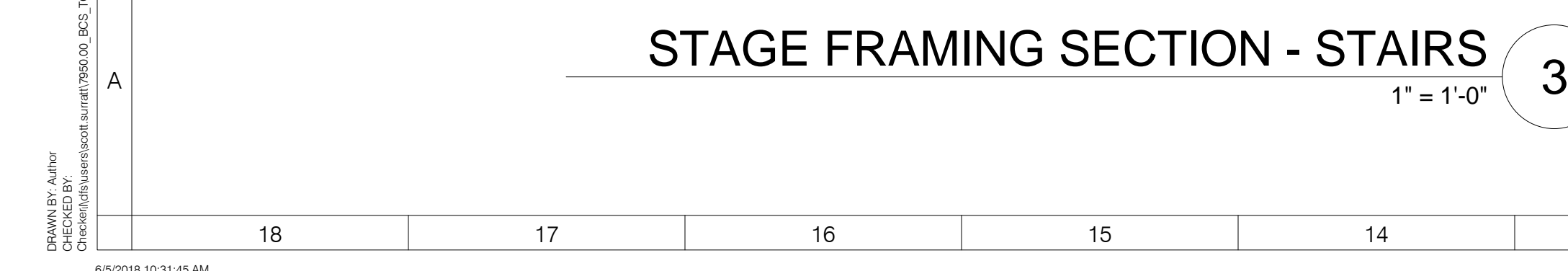
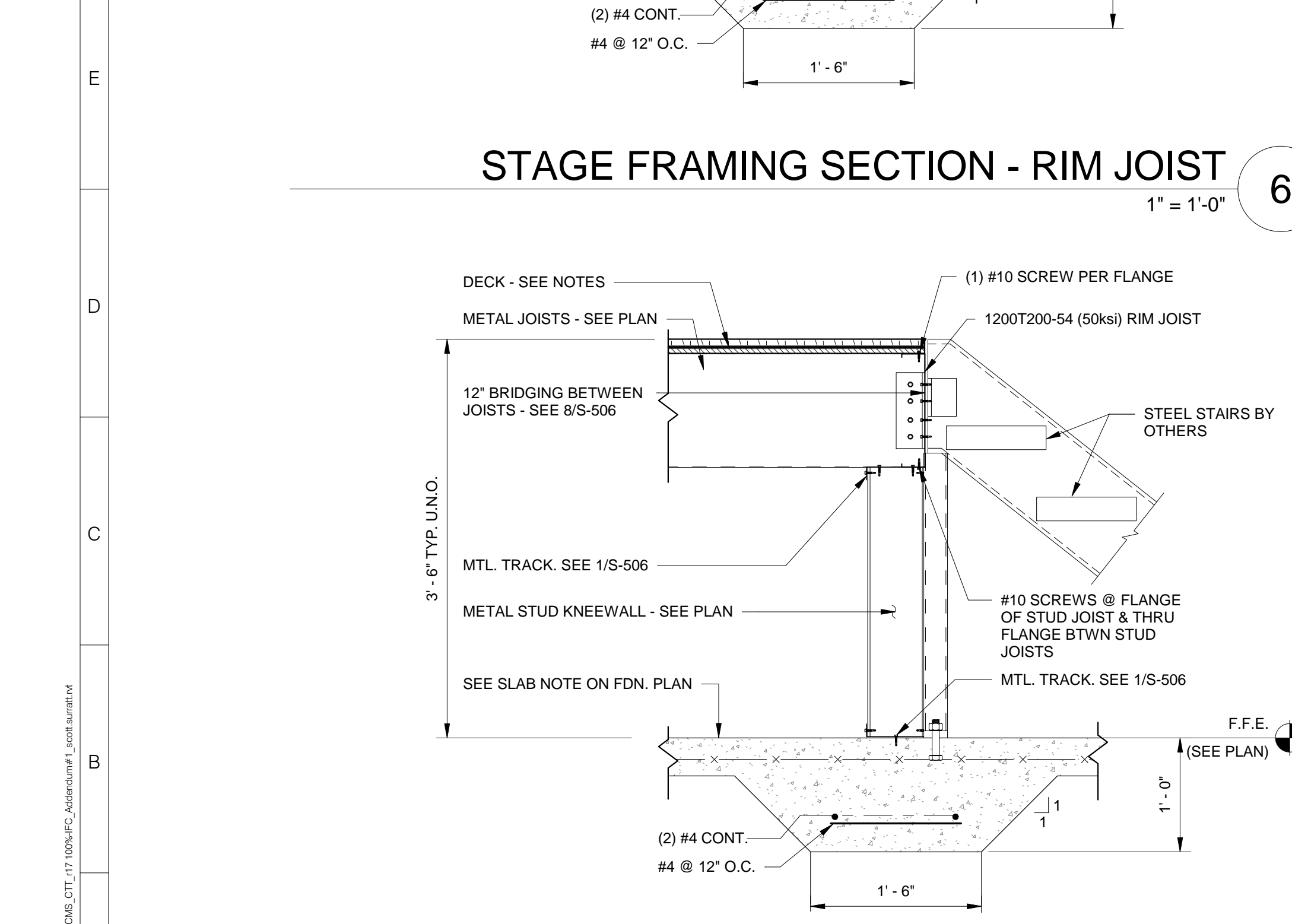
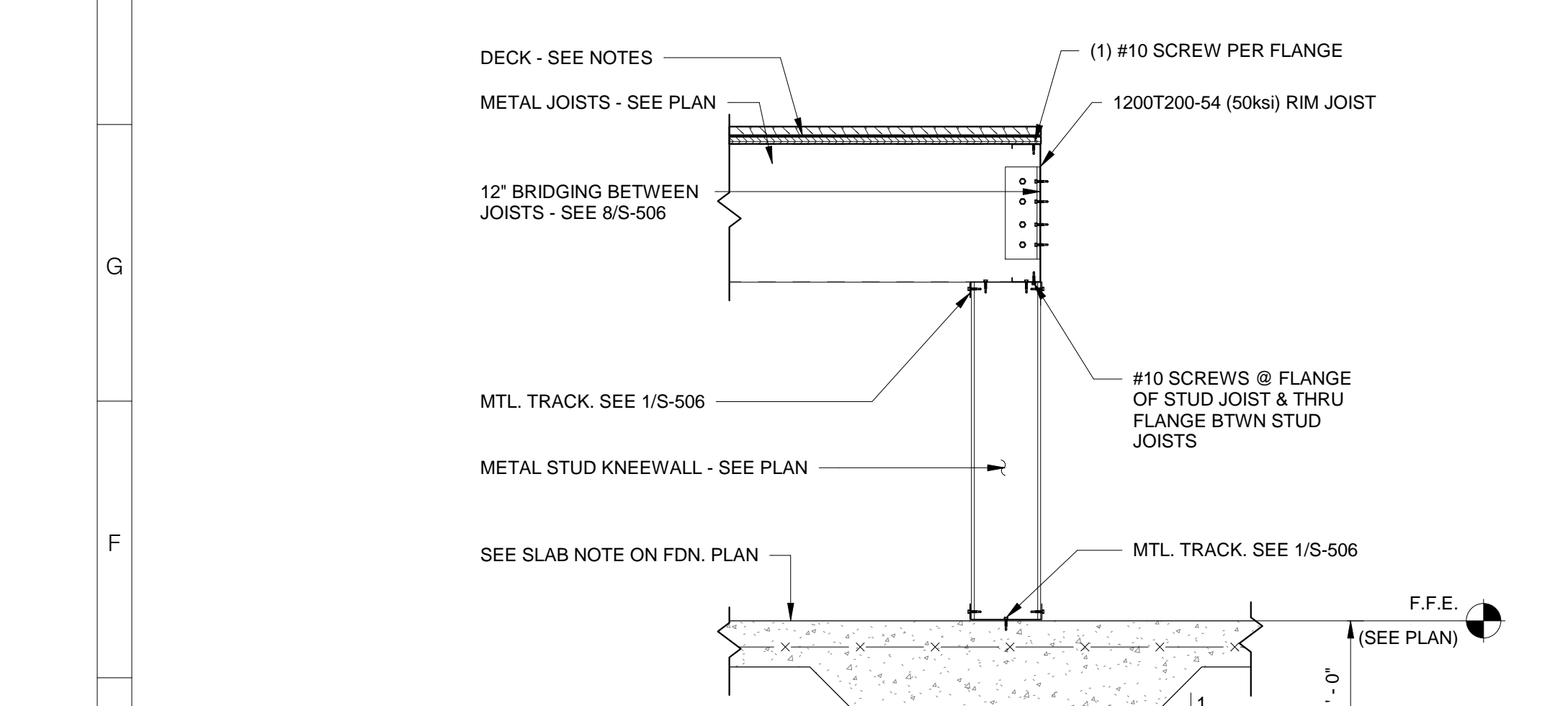
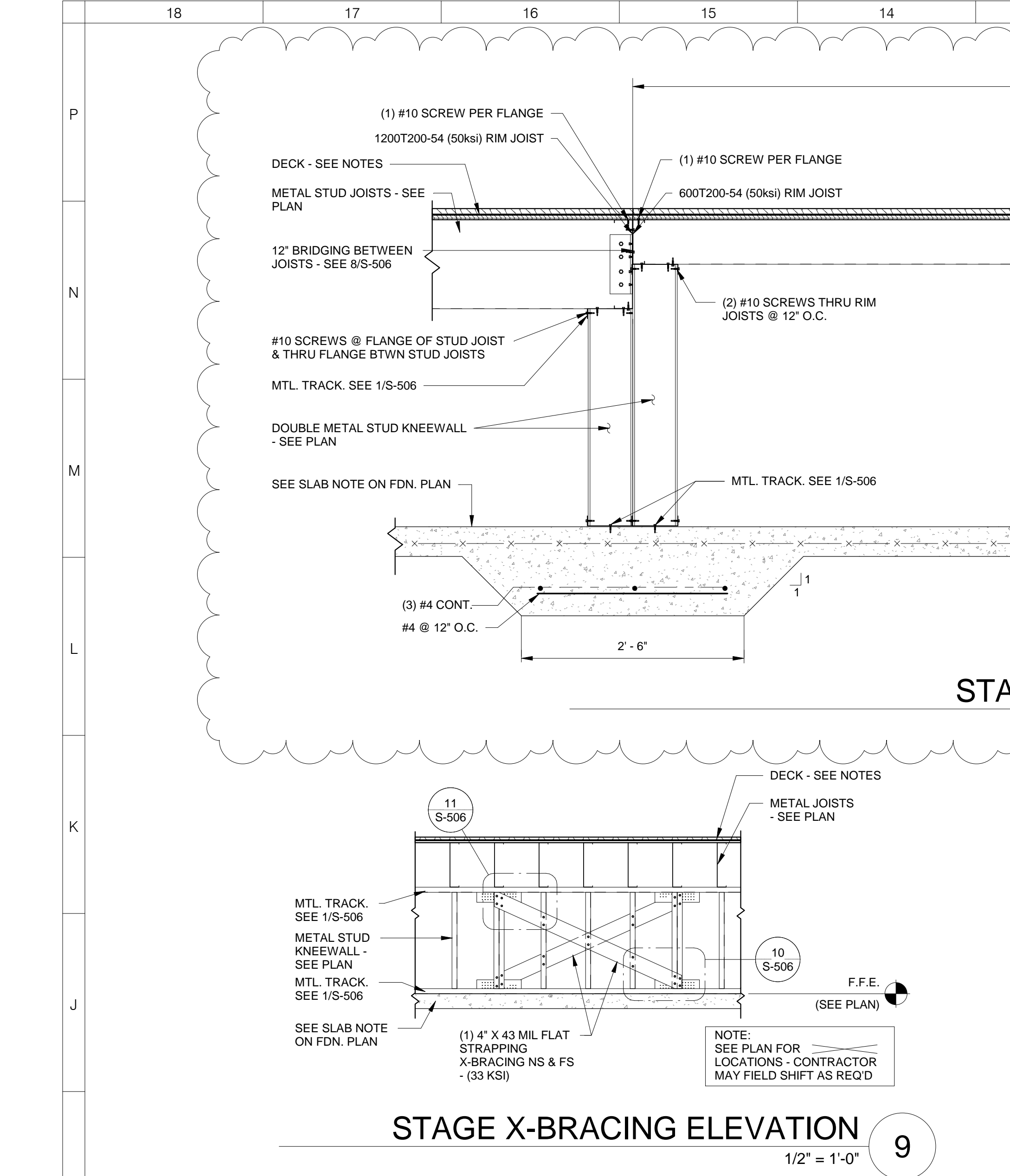
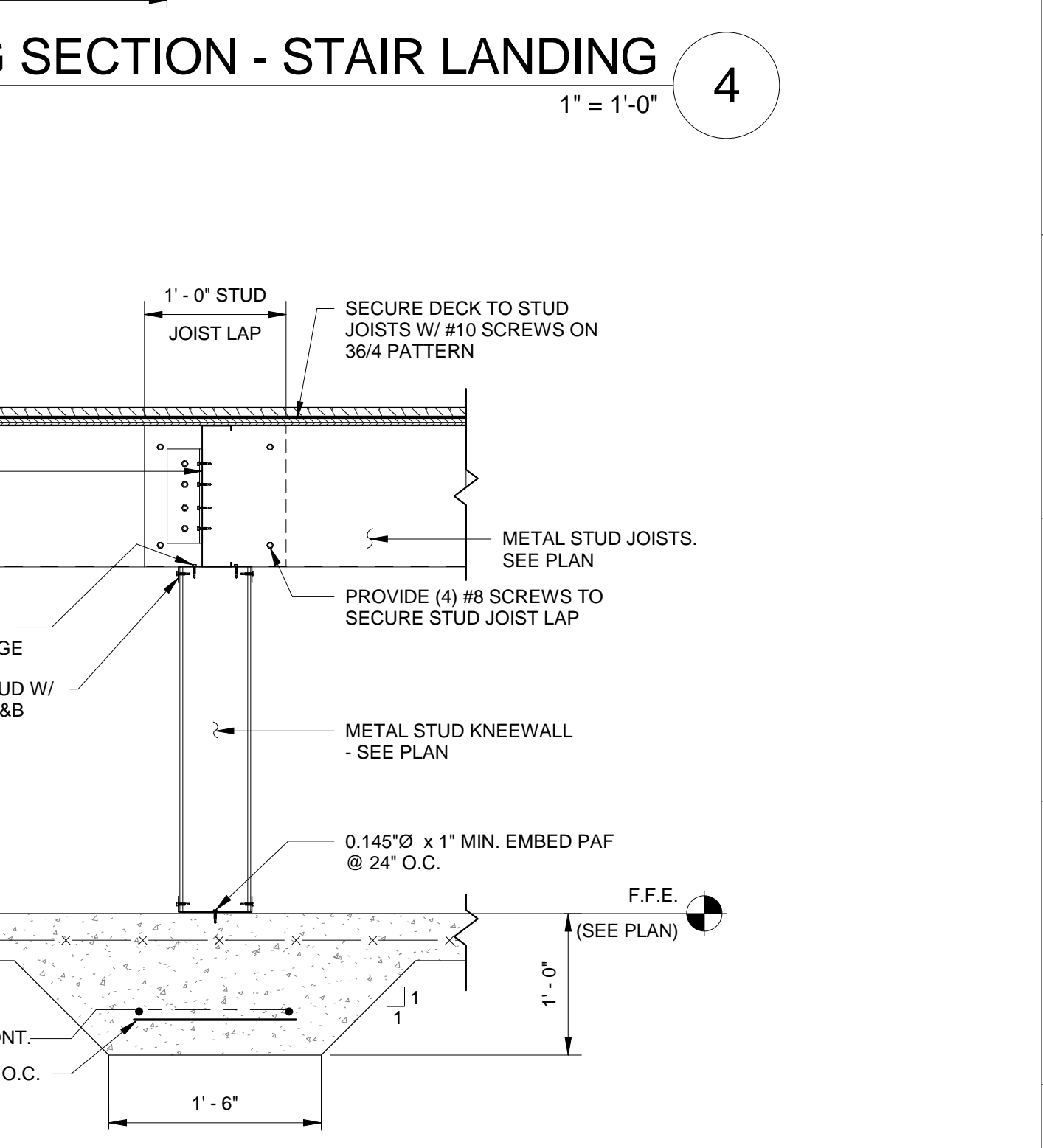
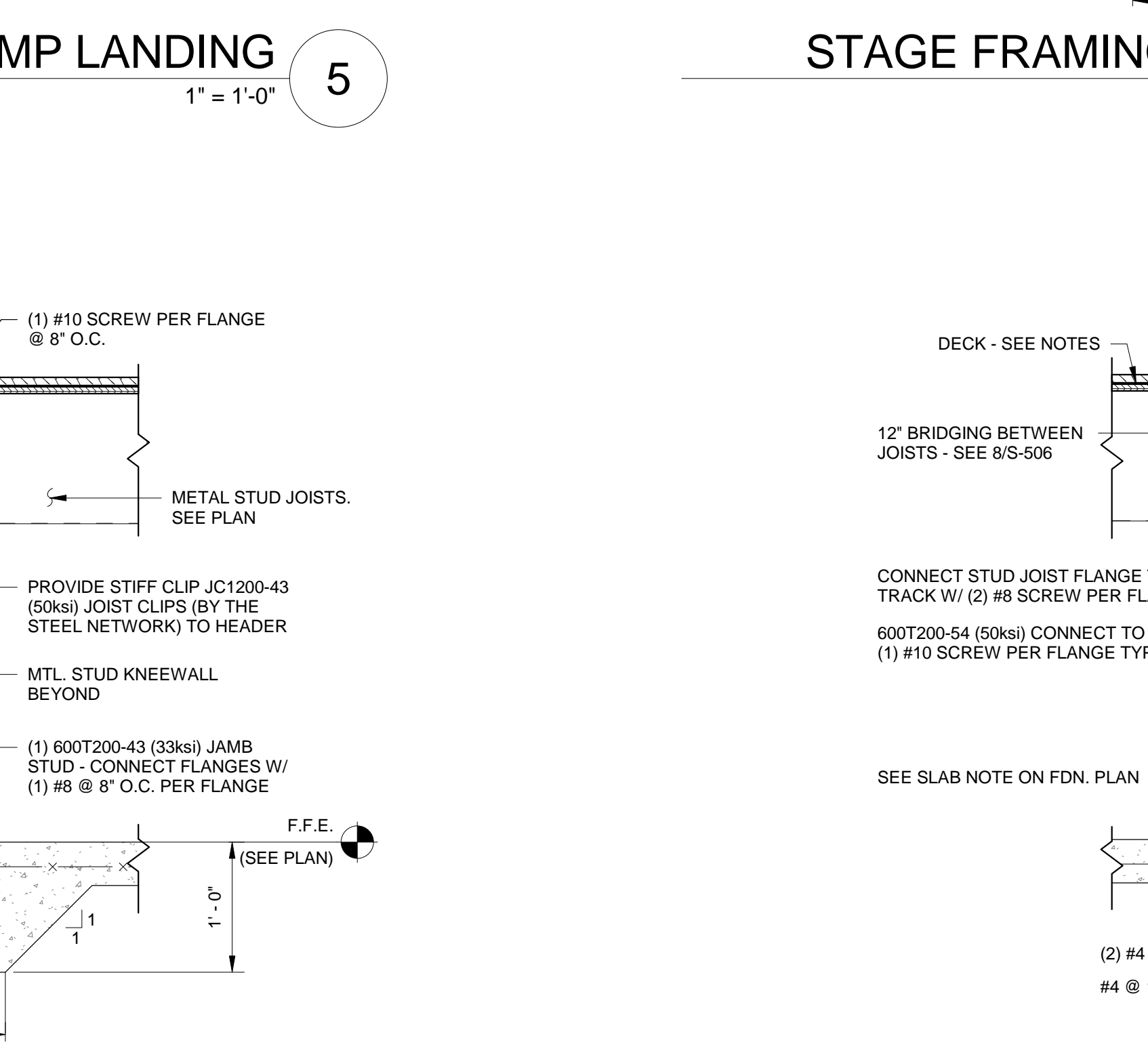
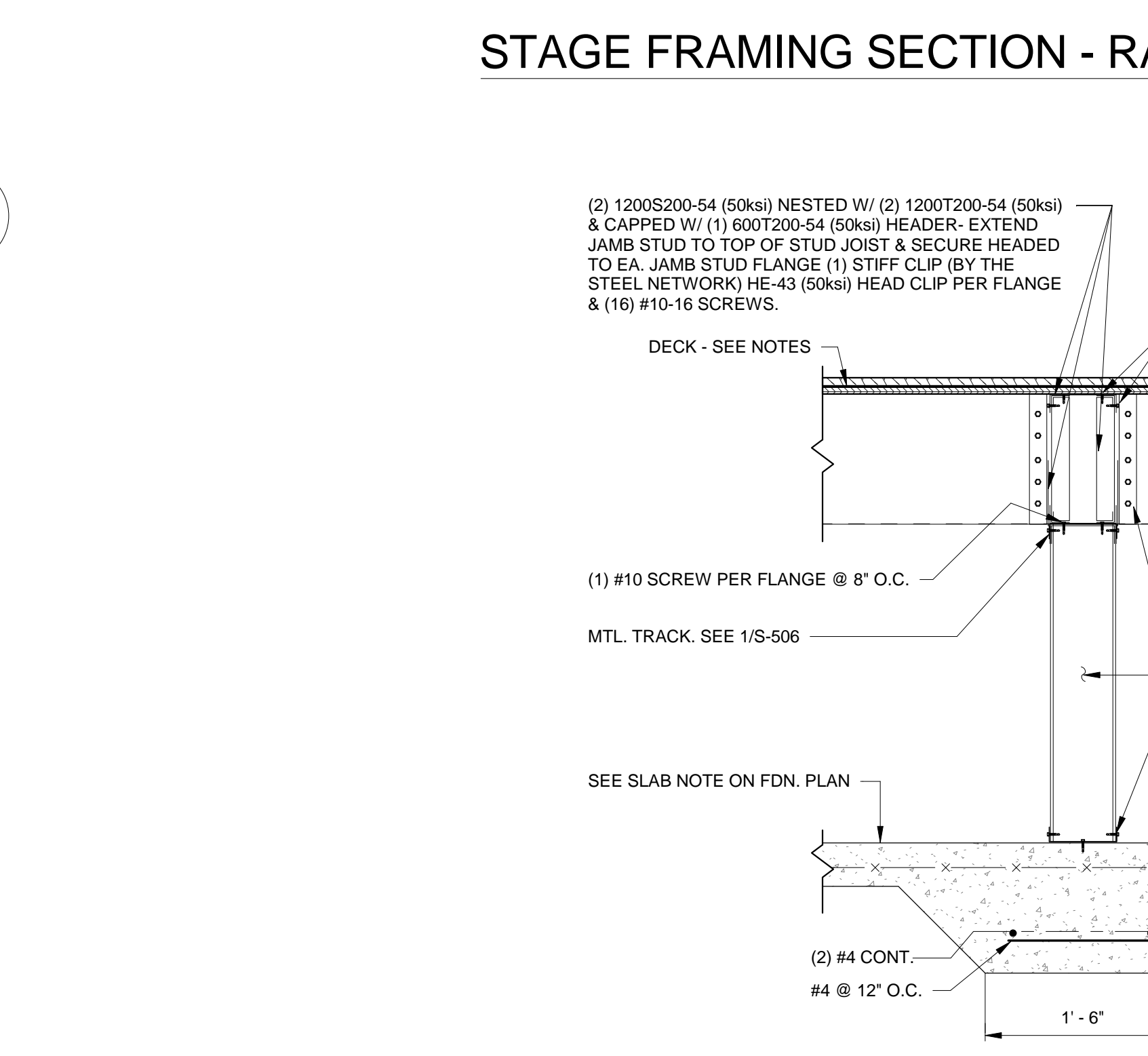
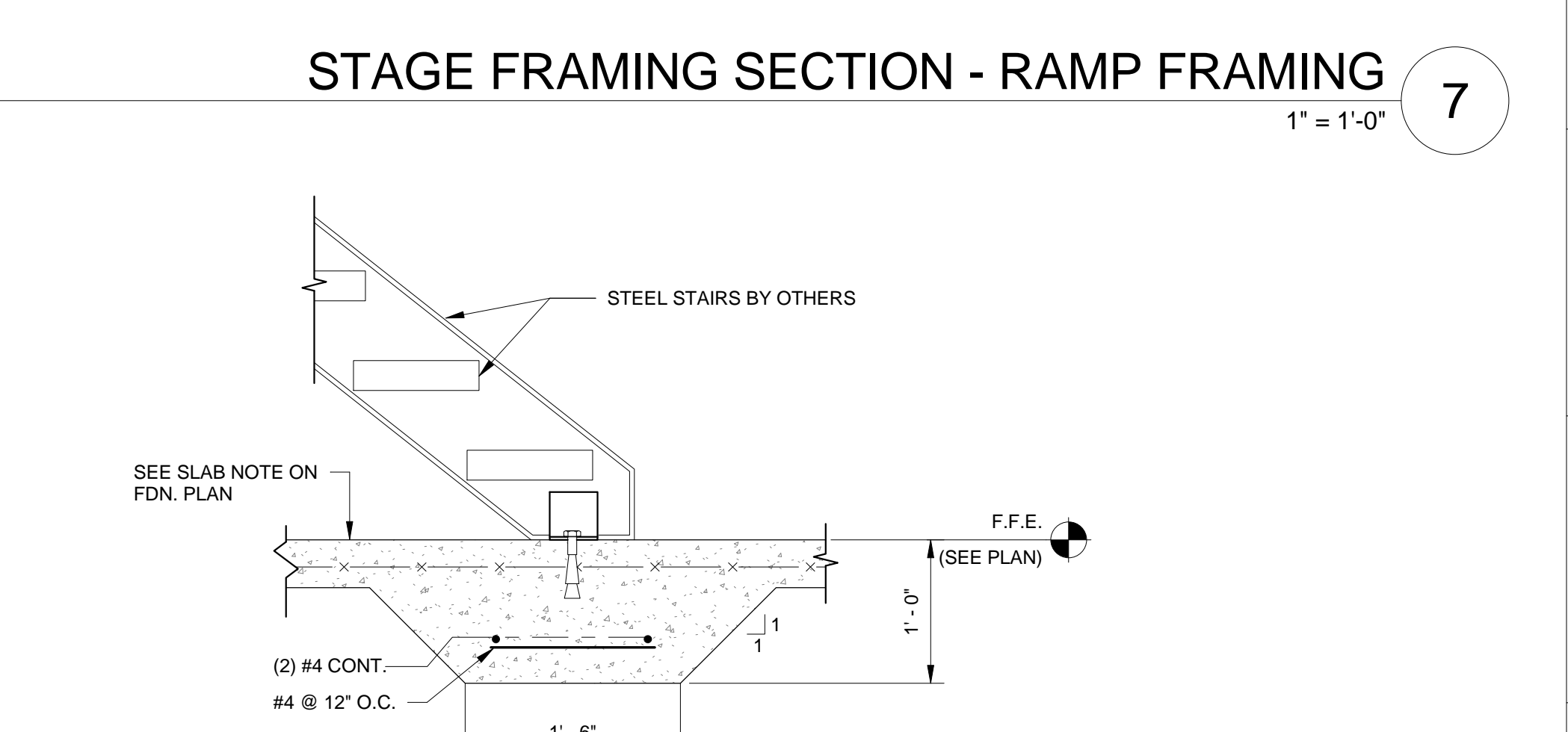
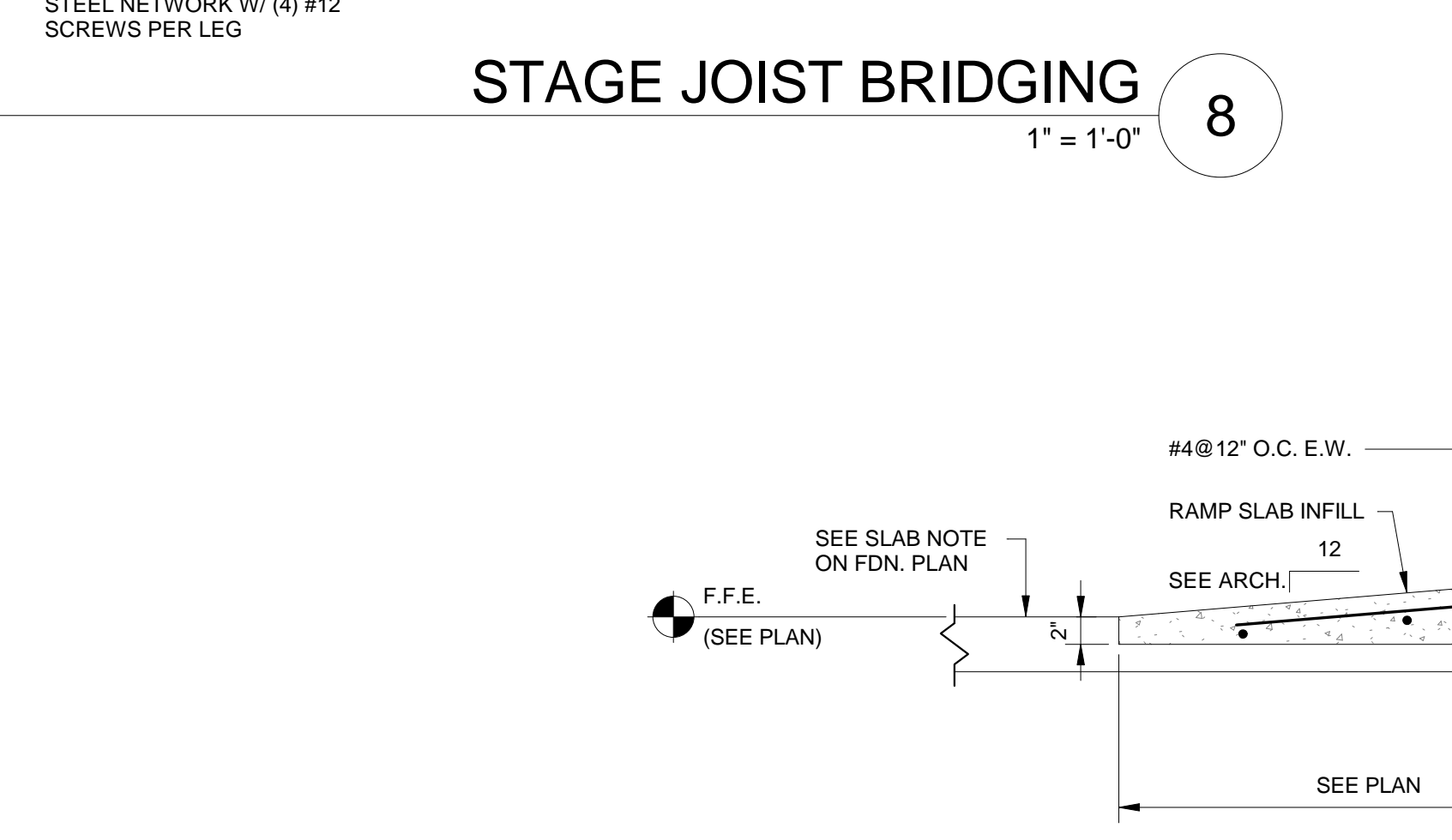
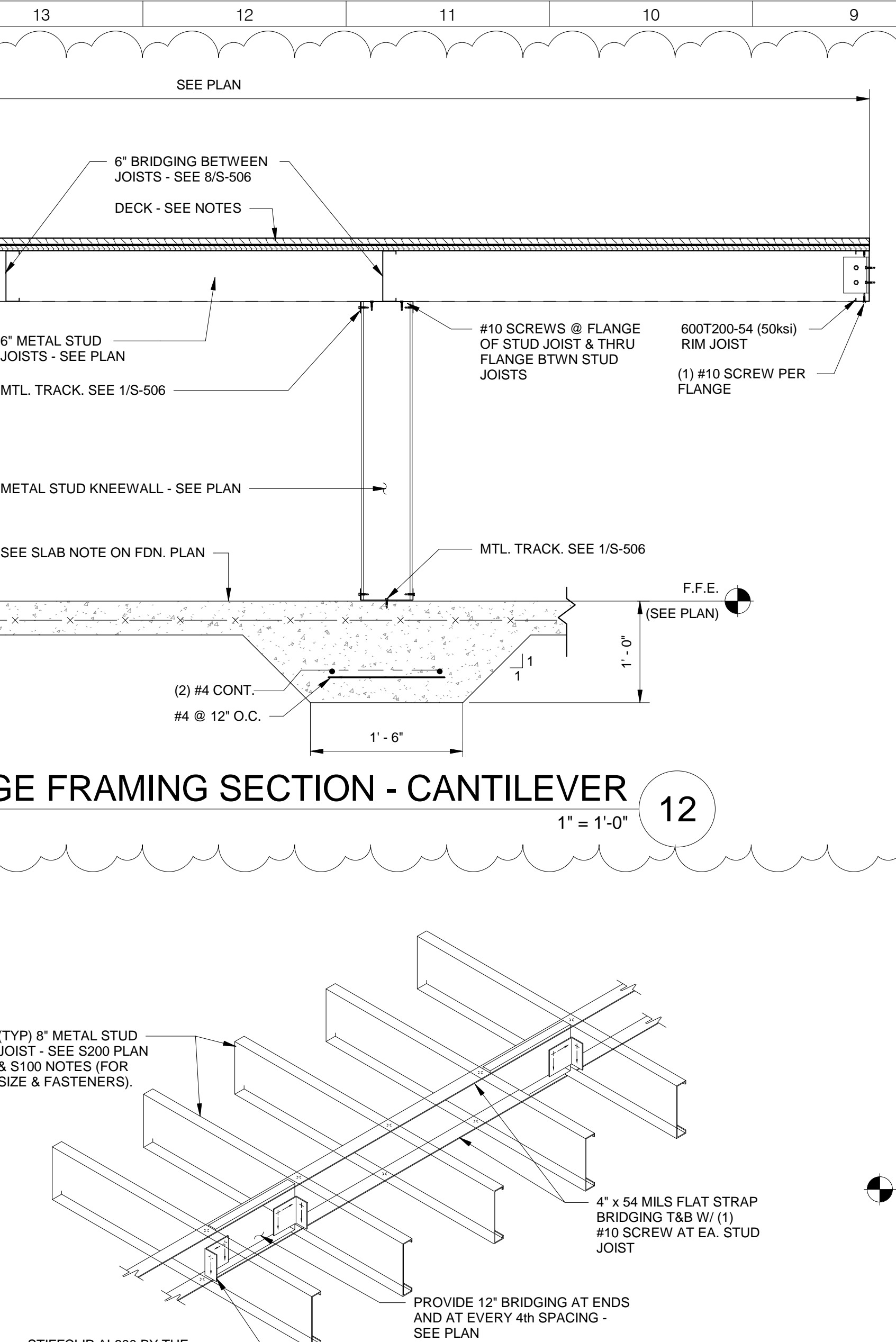
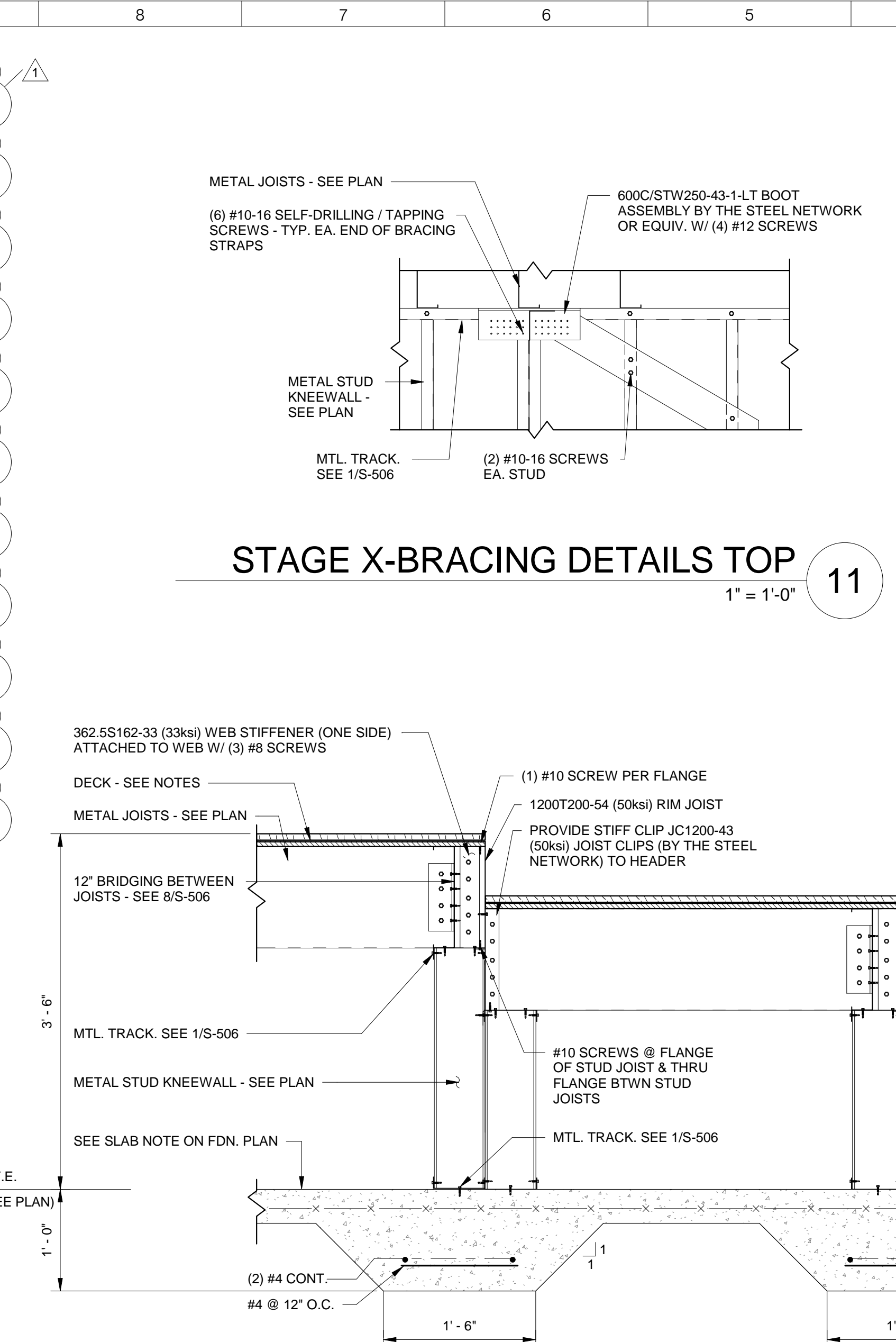
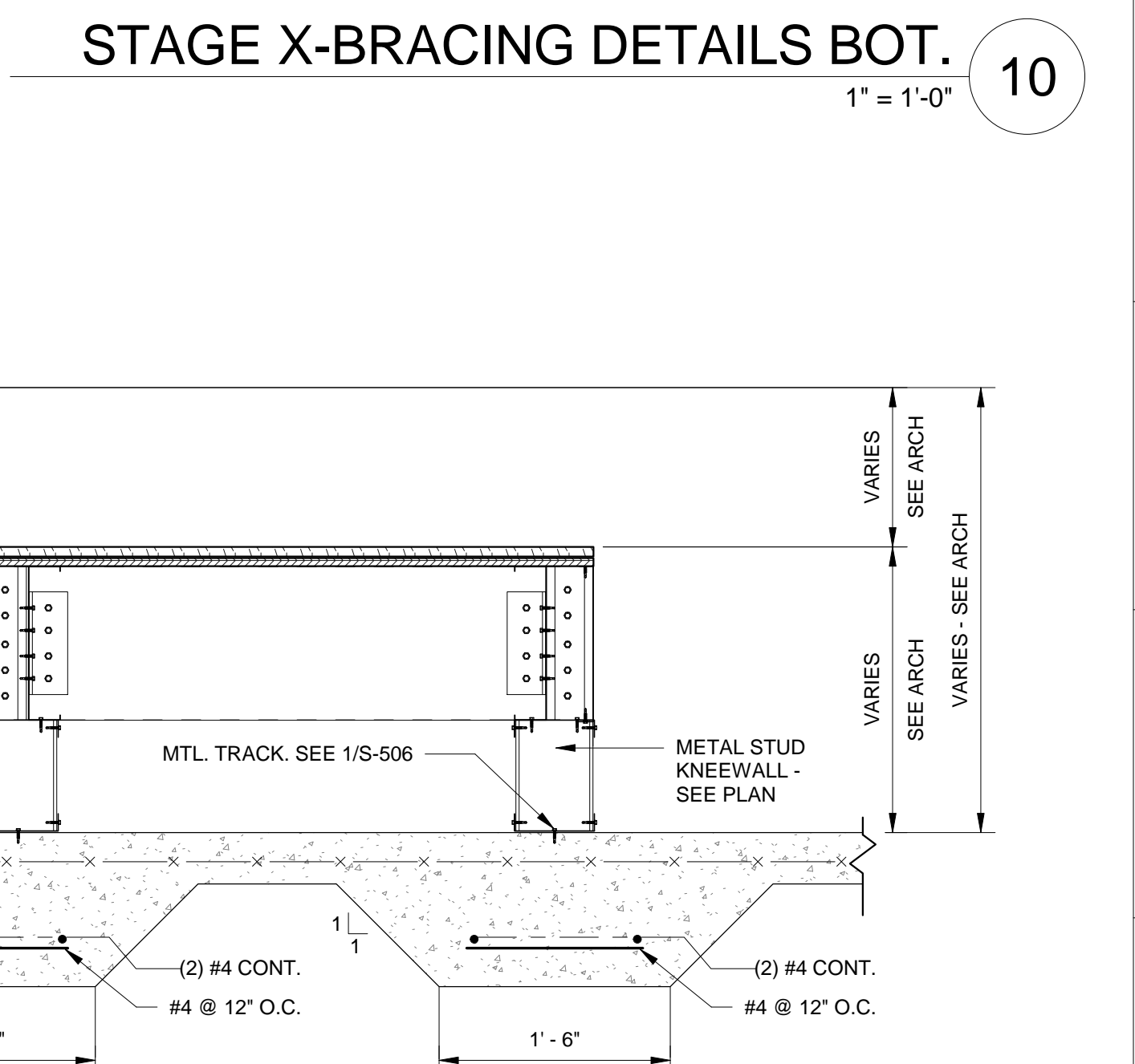
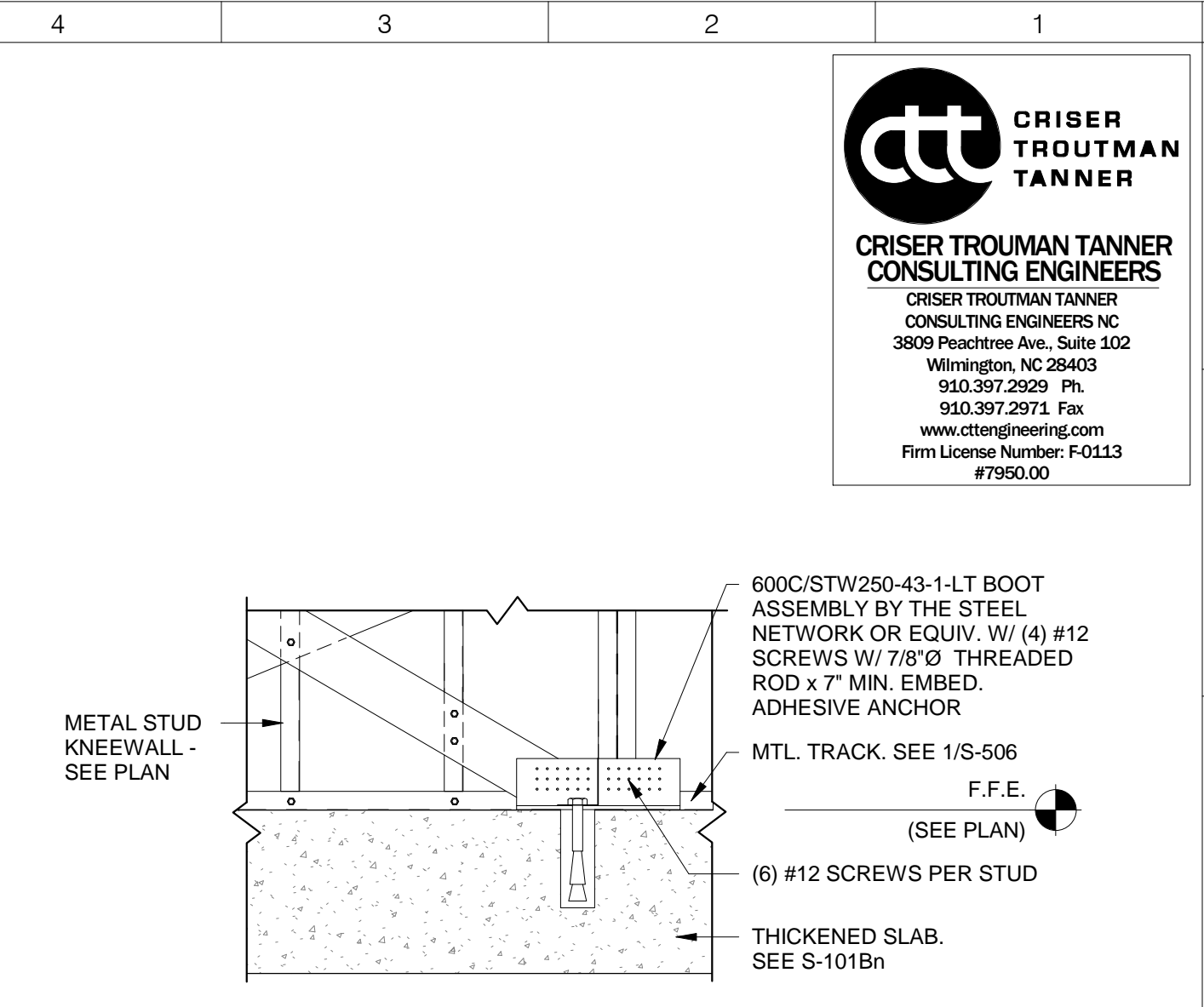


REVISIONS

No.	Description	Date
1	Addendum #1	TBD

ISSUED: CONSTRUCTION DOCUMENTS
 DATE: 05/24/2018
 SCALE: As indicated
 SHEET NAME: STAGE FRAMING SECTIONS
 SHEET NUMBER:

S-506





Town Creek Middle School
BID FORM

Project: Town Creek Middle School
Winnabow, North Carolina 28479

Mail To (Prior to Bid Day): W. M. Jordan Company
Attn: Seth Speight
1712 Eastwood Road, Suite 200
Wilmington, North Carolina 28403

Hand Deliver To (Bid Day Only): W.M. Jordan Company
Attn: Seth Speight
Hampton Inn (Near Home Depot)
124 Old Eastwood Rd.
Wilmington, NC 28403

Company Name: _____

Estimator: _____ Estimator's Phone #: _____

License #: _____ WMBE/HUB Status: _____

Acknowledgements:

We have received; visited and/or reviewed (please check the boxes to acknowledge):

- checkbox All materials provided in or referenced by the Project Manual
checkbox All drawings and Specifications and other exhibits referenced herein
checkbox Addenda issued by the Architect and referenced below
checkbox Site conditions relevant to the work
checkbox Supplemental Instructions to Bidders
checkbox WM Jordan Subcontractor Agreement

Clarifications:

Bidder acknowledges receipt of the clarifications listed below:

Table with 2 columns: Clarification No. and Initials. Contains 5 rows for recording clarifications.



Addenda:

Bidder acknowledges receipt of the addenda listed below:

Addendum No.	Initials:
Addendum No.	Initials:
Addendum No.	Initials:
Addendum No.	Initials:

The undersigned, as Bidder, hereby declares that the only person or persons interested in this Proposal as principal or principals is or are named herein and that no other person than herein mentioned has interest in this Proposal or in the contract to be entered. The Bidder further declares that he has examined the site of the Work and the Contract Documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees if this proposal is accepted to contract with W.M Jordan Company in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor required to complete the Work to the full and entire satisfaction of the State of North Carolina, Brunswick County Schools, KSQ Design and its Consultants.

Total bid price for all work, complete, in accordance with the Contract Documents, including all applicable Federal, State, and local taxes. All required insurance costs. Bids are good for 90 days.

Please list the Bid Package(s) ID to indicate the package(s) you are bidding.

Bid Package ID _____:

Town Creek Middle School: _____ 00/100 Dollars \$ _____



BP-32 (Division 10 & 11 Install and General Carpentry) Only:

Installation of each section is to be priced as if it were to be separate contracts. Award of install subcontracts may be broken up into several bidders pending pricing of individual sections. Refer to BP-32 Scope of Work.

1. Provide allowance for 300 man hours of carpentry labor to be used at the discretion of the CMR superintendent.
_____ 00/100 Dollars \$ _____

2. Provide and install pressure treated 2x4 wood blocking at all exterior windows (4 sides) and doors (3 sides).
_____ 00/100 Dollars \$ _____

3. Install all visual display surfaces per plans and specifications.
(Includes installing owner provided smartboards)
_____ 00/100 Dollars \$ _____

4. Install all toilet accessories and toilet partitions per plans and specifications
(Includes installing owner provided toilet accessories).
_____ 00/100 Dollars \$ _____

5. Install all wall protection per plans and specifications.
_____ 00/100 Dollars \$ _____

6. Install all fire extinguishers and fire extinguisher cabinets per plans and specifications.
_____ 00/100 Dollars \$ _____

7. Install flagpole per plans and specifications.
_____ 00/100 Dollars \$ _____

8. Install residential appliances per plans and specifications.
_____ 00/100 Dollars \$ _____

9. Install site benches per plans and specifications.
_____ 00/100 Dollars \$ _____



Alternates:

CM-Alt #1: Add for payment and performance bond.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A-Alt #1: Provide mortise locks by Schlage L9000 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A-Alt #2: Provide cylindrical locks by Schlage BD 92 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A- Alt #3: Provide exit devises by Von Duprin 98/35 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A- Alt #4: Provide door closers by LCN 4010/4110 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A- Alt #5: Provide door cylinders by Schlage in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-10A- Alt #1: Provide add to install visual display boards per BP-10A scope of work. (Includes install of owner provided smartboards).

(ADD) _____ 00/100 Dollars \$ _____



BP-10C- Alt #1: Provide add to install toilet accessories, toilet partitions per BP-10C scope of work. (Includes install of owner provided toilet accessories)

(ADD) _____ 00/100 Dollars \$ _____

BP-10D- Alt #1: Provide add to install fire extinguishers and fire extinguisher cabinets per BP-10D scope of work.

(ADD) _____ 00/100 Dollars \$ _____

BP-10F- Alt #1: Provide add to furnish and install walkway cover extension alternate from the new middle school to the existing elementary school per plans and specifications. See plans for extent of walkway in base bid vs alternate.

(ADD) _____ 00/100 Dollars \$ _____

BP-10F- Alt #2: Provide add to furnish and install exterior door canopies per BP-10G plans and specifications.

(ADD) _____ 00/100 Dollars \$ _____

BP-10H- Alt #1: Provide add to install flagpole per BP-10H scope of work.

(ADD) _____ 00/100 Dollars \$ _____

BP-10I- Alt #1: Provide add to install wall protection per BP-10I scope of work.

(ADD) _____ 00/100 Dollars \$ _____

BP-11B- Alt #1: Provide add to install residential appliances per BP-11B.

(ADD) _____ 00/100 Dollars \$ _____

BP-11F- Alt #1: Provide add to furnish and install divider curtain in gym per plans and specifications.

(ADD) _____ 00/100 Dollars \$ _____



BP-12E- Alt #1: Provide add to install site benches per plans and specifications.

(ADD) _____ 00/100 Dollars \$ _____

BP-23A- Alt #1: Provide and install controls by Schneider Electric in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-26A- Alt #1: Provide and install school video system by Video Insight (recently purchased by Panasonic) lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-26A- Alt #2: Provide and install AD 300 electric locks to tie into a proprietary lock data base. New locks will require licenses, which are to be included in scope. All locks tying into the system need to be purchased through open options dealer. This is in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-26A- Alt #3: Provide and install walkway canopy lighting for the walkway cover extension alternate from the new middle school to the existing elementary school per plans and specifications. See architectural plans for extent of walkway in base bid vs alternate.

(ADD) _____ 00/100 Dollars \$ _____

Company: _____

Signature: _____ Date: _____

Title: _____

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

*** OR ***

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MB contractors, vendors and suppliers that will be used. If there is no MB participation, then enter none or zero on the form. Affidavit A **or** Affidavit B, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

State of North Carolina AFFIDAVIT A – Listing of Good Faith Efforts

County of _____

(Name of Bidder)

Affidavit of _____

I have made a good faith effort to comply under the following areas checked:

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101)

- 1 – (10 pts)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- 2 --(10 pts)** Made the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bids are due.
- 3 – (15 pts)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- 4 – (10 pts)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- 5 – (10 pts)** Attended prebid meetings scheduled by the public owner.
- 6 – (20 pts)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- 7 – (15 pts)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- 8 – (25 pts)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- 9 – (20 pts)** Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- 10 - (20 pts)** Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

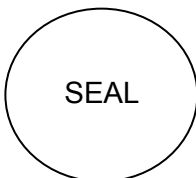
The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d) Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20____

Notary Public _____

My commission expires _____

State of North Carolina --AFFIDAVIT B-- Intent to Perform Contract with Own Workforce.

County of _____

Affidavit of _____
(Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the _____ contract.
(Name of Project)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and

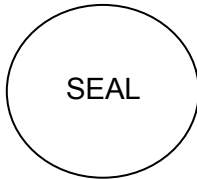
The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement. The Bidder agrees to make a Good Faith Effort to utilize minority suppliers where possible.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20__

Notary Public _____

My commission expires _____



W. M. JORDAN COMPANY'S ADDENDUM NO. 01

TOWN CREEK MIDDLE SCHOOL CD BID

JUNE 12, 2018

1. Bids are to be submitted on the project bid form in a sealed envelope. Emailed bids will not be accepted. Please refer to "Instructions to Bidders" for proper bid submission requirements.
2. The bid date of June 26th @ 2:00pm remains unchanged.
3. Bid Bonds: A bid bond of an amount equal to or not less than five percent (5%) of the bid amount is to be included with the bids for bid packages that are \$300,000 and above.
4. A non-mandatory pre-bid meeting is scheduled for June 13th @ 1:00pm at the existing Town Creek Elementary School cafeteria.
5. Bid Package BP-09D. Remove Stage Flooring from Title. Stage flooring is LVT and is to be included in BP-09E. Plywood subflooring is to be included in BP-09A.
6. Bid Package BP-26A is to provide and install Tele data, Communications, Sound and Security systems complete per plans and specs. Owner will not be providing or installing any systems.
7. Tack strips shown on sheets A-831A through A-832C are to be included in bid package BP-10A as well as bid package BP-32.
8. Bid package BP-08A is to include the auto door operators in their package per plans and specs.
9. Bid Package BP-26A- Fire alarm is to be non-proprietary, open protocol.
10. Steel stairs on S-101Bn are to be included in bid package BP-05A.
11. Project bid form has been revised dated (2018.06.12).
12. Bid packages: BP-10G Exterior Door Canopies and BP-11G Gym Stage Curtains have been added.
13. Bid package: BP-11B has been revised to incorporate the revised specification 11 31 00 in addendum #1. Scope now includes: Refrigerators, Washers & Dryers, and Ice Machine.

14. Vapor Lock has been added as approved for specification section 03 05 10.
15. Per owners request lockers will be changed from plastic to metal. Specification to be issued in Addendum #2
16. Question: Sheet S-001 masonry notes #8 & #17 have all cells grouted solid. Per RFI 0017 grouting solid is not needed. Please revise.
Answer: Masonry note #8 on Sheet S-001 shall be clarified to read "Masonry cells containing bars shall be grouted and shall be fully grouted as noted."

Masonry note #17 on Sheet S-001 shall be clarified to read "Fully grout all cells containing vertical reinforcing. Other cells shall be grouted as noted." in lieu of "Fully grout all cells."

Response to RFI #17 was based on DD drawings. Upon completion of full design, the gym walls are required to be fully grouted. Other walls will be partially grouted as shown.
17. Question: Sheet S-101A footings for the dumpster screen has been changed to say "Ref to civil drawings". Footing sizes/designs for the dumpster screens shouldn't be on the civil drawings. Please clarify.
Answer: For the 8' high screenwalls, located outside of the kitchen's cooler/freezer room, the screenwalls, which are shown to be 8" CMU on civil and arch drawings, cannot be adequately reinforced for the design wind. These screenwalls shall be clarified to be 12" CMU. See Section 7/S-501 for the required wall reinforcing and footing.
18. Question: We have been unable to locate the automatic door operators that were discussed in OAC meetings on the plans or in the specs. Please advise with locations/specifications.
Answer: Please see attached sheets for door locations.
19. Question: Per previous RFI 0008 the drywall on the walls in the admin area can be just above ceiling height. Sheet G-041 has all walls extending to structure above. Please confirm and note walls on drawings that this reduction can apply to.
Answer: Attached is the ASK 001 for wall locations. The walls highlighted are to go to deck while those not highlighted will stop 6" above the ceiling. The wall acoustic performance has been coordinated with the Acoustic Consultant; non-rated walls without acoustic performance will stop at the ceiling as marked on the PDF.
Wall tags will reflect this information in Addendum #1. Revisions to the Wall Type Sheet to show the standard type A wall stopping 6" after the ceiling will be incorporated as well.
20. Question: Specification 095129 calls for cementitious wood fiber ceiling panels, however on the finish legend on A-841 there are only 2 types of ACT listed and they are not wood fiber. Please advise.
Answer: Please remove Cementitious Wood Fiber Ceiling Panels 09 51 29 from the specs.
21. Question: Per value engineering with BCS, it was decided the wood gym floor overlay system would be provided as an add alternate. Please provide a specification for the wood gym floor overlay system alternate.

Answer: Owner to provided floor protective covering. Item will not be included in bid.

22. Question:

1. Coiling counter door for snack bar 1202 is not sized and does not show up on the door schedule. Please size/number and include on the door schedule for bidding subcontractors.
2. Fire shutter door in dining 1302 is not sized and does not show up on the door schedule. Please size/number and include on the door schedule for bidding subcontractors.
3. Specifications list 08 33 23 overhead coiling doors, however we have not been able to locate any overhead coiling doors. We have located a rolling counter door (at snack bar 1202) and a fire shutter (at dining 1302). Please advise the location of any overhead coiling doors.

Answer: Attached sheet address question 1 and 2, doors 1202A and 1302C.
Question 3: there is not an overhead coiling door in this project. Spec section 08 33 23 will be removed.

23. Question: Sheet A-831Bn does not show any flooring designs/logos. Please advise if there will be flooring design/logos for clarification to bidding subcontractors.

Answer: See attached revised sheet A-831Bn.

24. Question: Finish legend on A-841 shows wood flooring type WD-1 & WD-2, however sheet A-831Bn only shows WD-1. Please advise as to WD-2.

Answer: The sheets that the WD-2 is located are A-804, A-805, A-806—all interior elevations because it is a vertical element. The detail is on A-811. This is to be included in BP-06A.

25. Question: Equipment legend on G-031 has washers and dryers. We have been unable to locate laundry equipment specifications. Please advise.

Answer: Spec section 11 31 00 Residential appliances will be submitted in Addendum #1.

26. Question: Specialties and equipment schedule on G-031 list outdoor benches to be contractor furnished/installed. We have been unable to locate them on the drawings or in the specifications. Please advise.

Answer: 1. Outdoor benches spec section will be addressed in Addendum #2.
2. Benches are located and noted on sheets A-101Bn and A-101C, see attachments.

27. Question: Sheet A-320 detail A1 does not show extent of walkway canopy of what is to be included in the base bid vs what is to be in the alternate. This will need to be shown for clarity to bidding subcontractors. Please advise.

Answer: See attached revised sheet A-320. Base bid and alternate have been identified. Front canopy is to be included in base bid also.

28. Question:

1. Sheet TA-001 General notes #4 says "All phone, data, cable & network lines are by others". We are under the impression that the systems are to be provided fully and are not "by others". Please advise.

2. Sheet TY-001 Project notes #4 says "All network cables will be provided and installed by others". We are under the impression that the systems are to be provided fully and are not "by others". Please advise.

Answer: Network cables for AV and security are to be provided by the network vendor as shown on the TN drawings.

The TA (AV) and TY (security) vendor will provide devices these cables plug into.

BP-26A is to provide and install Tele data, Communications and Security systems complete per plans and specs. Owner will not be providing or installing any systems.

29. Question: Per specification 051200 the steel fabricator is to be AISC certified. The specification doesn't seem to indicate the steel erector has to be AISC certified, but rather comply with years/project experience and keeping quality control program in accordance with AISC. For clarification please confirm/clarify.

Answer: That is correct. Steel specification section 05 12 00 was edited per JM Jordan's request in RFI 022 (Elem School) to reduce constraints on erector for the Elementary School project. Same verbiage was used in the steel specification section 05 12 00 for the Middle School.

30. Question: Specifications reference a signage schedule, but we have been unable to locate any signage design/layouts/locations on the drawings.

Answer: Spec section 10 14 00 Signage will be submitted in Addendum #1.

31. Question: Sheet A-621 detail K1 there is a detail of the Kalwall opening showing 3 vertical size panels for the opening. 3'-8 3/8": 4'-3 1/4"; 3'- 8 3/8. Making up one 12'-0" opening. Can the opening be three equal panels vs what is currently drawn with having the center being wider? If not the internal grid pattern of the panels will be different. Please advise.

Answer: See attachments of revised sheets A-513 and A-621 where kalwall shows three equal 12' panels.

32. Question: Please advise on the preferred orientation of the panels. Shoji, Reverse Shoji, Tuckerman?

Answer: Shoji orientation per elevations.

33. Question: Specification section 07 54 19 3.06 seems to indicate PVC roofing is adhered. Per conversations with BCS we believe they preferred to have the roofing mechanically fastened vs adhered. Please advise.

Answer: PVC roofing mechanically fastened. Revised spec section 07 54 19 will be submitted in Addendum #1.

34. Question: Finish legend shows rubber flooring (RF-1 and RF-2) to be color 273 Copper Penny. We have been notified that the rubber stair treads and tiles do not come in that color. Please advise on another acceptable color.

Answer: It has been confirm with Johnsonite representative that 273 Copper Penny (not Copper) is available in the integrated stair tread and riser. The 24x24 rubber tile is also available in Copper Penny.

35. Question: Specification sections 09 84 30 Acoustical Wall Panel System, 09 84 34 Sound-Absorbing Ceiling Units refer to acoustical wall panels and handing ceiling panels. Specification section 11 60 01 Broadcast, Theater and Stage Equipment also has wall panel information with differing acceptable manufacturers. Please advise which specifications are correct.

Answer: All specifications are correct:

- Specification sections 09 84 30 Acoustical Wall Panel System is applicable at the Gym walls (sheet A-806)

- 09 84 34 Sound-Absorbing Ceiling Units refer to acoustical wall panels and hanging ceiling panels is applicable at Gym ceiling (sheets A-111Bn & A-806 and note "ACP-1, TYP")

- 11 60 01 Broadcast, Theater and Stage Equipment is applicable at the vocal music and instrumental music rooms (sheet A-801 details F1, F7, J1 & J5)

36. Question: We have been unable to locate a specification for the stage curtains. Please advise.

Answer: Spec section 11 60 30 Performance Space Curtain will be submitted in Addendum #1.

37. Question: Sheet G-031 lists (S3) adjustable storage shelving, however we have been unable to locate any specifications on them. Please advise.

Answer: Revised spec section 06 20 23 Interior Finish Carpentry will be submitted in Addendum #1.

38. Question: We have been unable to locate a specification for the exterior gym door canopies. Please advise.

Answer: Spec Section 10 73 01 Aluminum Wall Hung Canopy will be submitted in Addendum #1

39. Question: Per specification section 064116- 1.03-A. The casework fabricator must be a participant in AWI's Quality certification program. Please clarify if this will be a requirement or can be waived?

Answer: Client has decided to waive.

40. Question: Please provide specifications for:

1. Exterior Door Canopies & Cafeteria Awning
2. Commercial Laundry Equipment
3. Gym Stage Curtains

Answer: The following Specs sections will be submitted in Addendum #1:
10 73 01 Aluminum Wall Hung Canopy
Revised 11 31 00 Residential Appliances
11 60 30 Performance Space Curtains

41. Question: Specification 116623 Gymnasium Equipment does not include a scoreboard specification. Please provide for bidding subcontractors.

Answer: Revised spec section 11 66 23 will be submitted in Addendum #1.

42. Question: The rooftop ERV's on M-502 are based on Greenheck with no equals listed on the schedule. All of the other equipment schedules list approved equals. Are there any other manufactures approved to bid these units?

Answer: Additional manufacturers for ERVs will be added in addendum 2.

43. Question: There are no specification sections for the ERV's. Can some be issued?

Answer: A specification for the ERVs will be added in addendum 2.

44. Question: The notes for the packaged rooftop unit schedule on M-501 list wind rated roof curbs and vibration roof curbs for the larger size units. There is no mention of this requirement on the other rooftop unit curbs (Kitchen MUA RTU-11 & ERV's). Will these require wind rated curbs also?

Answer: Refer to Section 230548, "Vibration and Seismic Controls for HVAC Piping and Equipment" for requirements for roof curbs, equipment rails and wind restraints.

45. Question: Specification 126613 notes the telescoping bleachers are electric. SD and DD design estimates have been carrying manual bleachers. Please advise if changing to electric is a needed/wanted premium.

Answer: Bleachers are to be manual pull-out.

46. Question: There are columns on the structural drawings that are not labeled.

1. Sheet S-101A- along lines Q & N
2. Sheet S-101Bn- along lines 3 & 4
3. Sheet S-101- along lines HH & Z

Please advise on those column callouts.

Answer:

1. On sheet S-101A along grid lines Q & N, the referenced unlabeled columns are part of the firewall structure. Addendum #2 will fully cover these column callouts and the firewall details.
2. On sheets S-101Bn along grid lines 3 & 4, the referenced columns are HSS8x6x3/8. These callouts will be labeled correctly in Addendum #2.
3. On sheet S-101Bs along grid lines HH & Z, the referenced unlabeled columns are part of the firewall structure. Addendum #2 will fully cover these column callouts and the firewall details.

43. Question: 1. 1/A-531 shows plywood risers & plywood treads on the stage steps. Floor finish plan A-831 does not indicate what flooring type is needed on the ramps at the stage. Please advise.

a. We have not been able to locate a edge of stage detail. Please advise.

Answer: 1. Finishes for the stage ramp and stairs will be the LVT-1 that we are using on the stage. For the stairs it will be both the tread and riser that is the LVT-1.

a. Detail has been addressed by structural in Addendum #1. Architectural detail will be submitted in Addendum #2.

47. Question: Sheet A-502 detail A1 has entire footing being wrapped with waterproofing. Please confirm this is not needed/revise drawing.

Answer: Detail has been addressed in Addendum #1.

48. Question: Sheet A-101A Room #1313 "Lockers" does not show any lockers. Please advise if there will be lockers in this room. If so, please provide layouts.

Answer: Locker locations has been addressed in Addendum #1.

49. Question: We have not been able to locate cut sections at the roof edge on sheet S-121C. Please advise.

Answer: Section cut marks were inadvertently omitted. Plan will be submitted with appropriate section cuts in Addendum #2.

50. Question: The Legend on page TN-001 indicated the intercom speakers shall be VOIP Intercom Speakers. The Detail for the same intercom speaker notes the loudspeaker "AS PER AV SPEC". The intercom section of spec section 27 10 00 2.14 does not specify the type of speakers to be installed. Typically Brunswick County Schools, installs lay-in style or flush mounted 25 volt Bogen Intercom speakers. Please clarify what type of speaker should be included on the base bid?

Answer: Loud speaker is to be and IP loudspeaker compatible with paging system.

50. Question: Spec section 27 10 00 2.14 states that "Basis of design for the intercom system will follow (expand) the existing Bogen communications, Inc Quantum Multicom IP specification as provided by Bogen Communications, Inc." Are we to expand an existing Quantum Intercom or supply a new intercom for this project?

Answer: New Quantum was called out to match ES.

51. Question: There were not any Intercom hallway speakers shown on the contract documents. Will hallway speakers be required for this project?

Answer: Not Requested by School

52. Question: 28 05 00, 2.01 B. States "Coordinate with owner on integrating proposed new system device(s) as indicated on the plan drawing connecting with existing ACS system/components." Are we to expand an existing ACS system or provide a new ACS for this project? Please provide manufacture of the existing system to be expanded.

Answer: The ACS system is new.

53. Question: Will an S2 Door Access Control System be accepted for this project.

Answer: Deferred to school district. The goal is to match existing systems in the existing ES.

54. Question: Please clarify who is responsible for supplying and installing the Electrified Locks/Strikes, ELR Kits and power supplies.

Answer: Security Contractor

55. Question: 28 05 00, 102 D states the owner will provide "Access control system credentials. Test cards will be issued by owner for contractor testing and verification." Shall the ACS subcontractor be required to supply any cards for this project? If yes how many cards should be supplied?

Answer: 100

56. Question: 28 05 00, 1.02 F, 1. States that "All external cameras shown on drawing will be an alternate to the base system." The legend on page TY-001 seems to match with this statement but the symbol for Exterior Camera, Fixed, Bullet (Alternate) is not used on the drawings. The regular ceiling mounted camera, fixed bullet is used for all but one exterior camera and that camera is a wall mounted bullet. Please clarify what should be included in the base bid and what should be an alternate.

Answer: All exterior cameras are to be fixed bullet camera. Owner confirmed on 6/12/18 that both interior and exterior cameras are to be in base bid.

57. Question: 28 05 00, 102 D states the owner will provide "Avigilon Video Management System software, licenses and recording/storage hardware." 1.03 A, states "Contractor shall provide a turn-key security system..." 28 05 00, 2.07 states "Security Equipment Wire handling devices and CAT 6 patch cables A. Furnished, installed and provisioned by owner." Please clarify what our scope of work will be for the CCTV system described in this spec section.

Answer: Cameras mounts and programing. Coordination with owner as they bring the VMS up. Coordinate with Network vendor on the placement and installation of all field cabling for the cameras.

58. Question: Door contacts are shown on multiple exterior doors that do not have door access. What is the intent for these Door Contacts that are not part of the Door Access System?

Answer: Door monitoring

59. Question: Is there an Intrusion Detection System that should be provided with the base bid? If yes would a Napco G255 Intrusion Detection System head-end be accepted?

Answer: No IDS was requested by the owner.

60. Question: Will a riser be provided for the Structured Cabling, Door Access, Intrusion Protections, Intercom systems. What will be required for the backbone cabling between closets for the Structured Cabling (how many fiber strands, 25 pair cabling for the phone system).

Answer: Fiber and phone requirements including riser were called out in TN Scope of work.

61. Question: 27 10 00 D, E, F, G. Typically we provide one patch cable for each data drop in the closet none in the field and a second patch cable for each camera and Wireless Access Point. Please clarify what will satisfy the contract documents for each of these sections before adding the extra patch cords as stated in each section.

Answer: Patch cables are called out per school request.

62. Question: Per equipment legend on G-031, overhead power in the maker space is to be included. In looking over the drawings, we have been unable to locate that requirement/locations/counts etc. on the electrical drawings. Please advise.

Answer: Attached is the screenshot of what it has been specified. Per owner request, white housing with yellow cords. Revised sheet E-111C Addendum #1 will be re-issue in addendum #2 to revise quantity and locations. 6 white overhead electrical pull downs are required.(Disregard pricing on picture).

HUBBELL HBLC30163TT CORD REEL W/ TAP



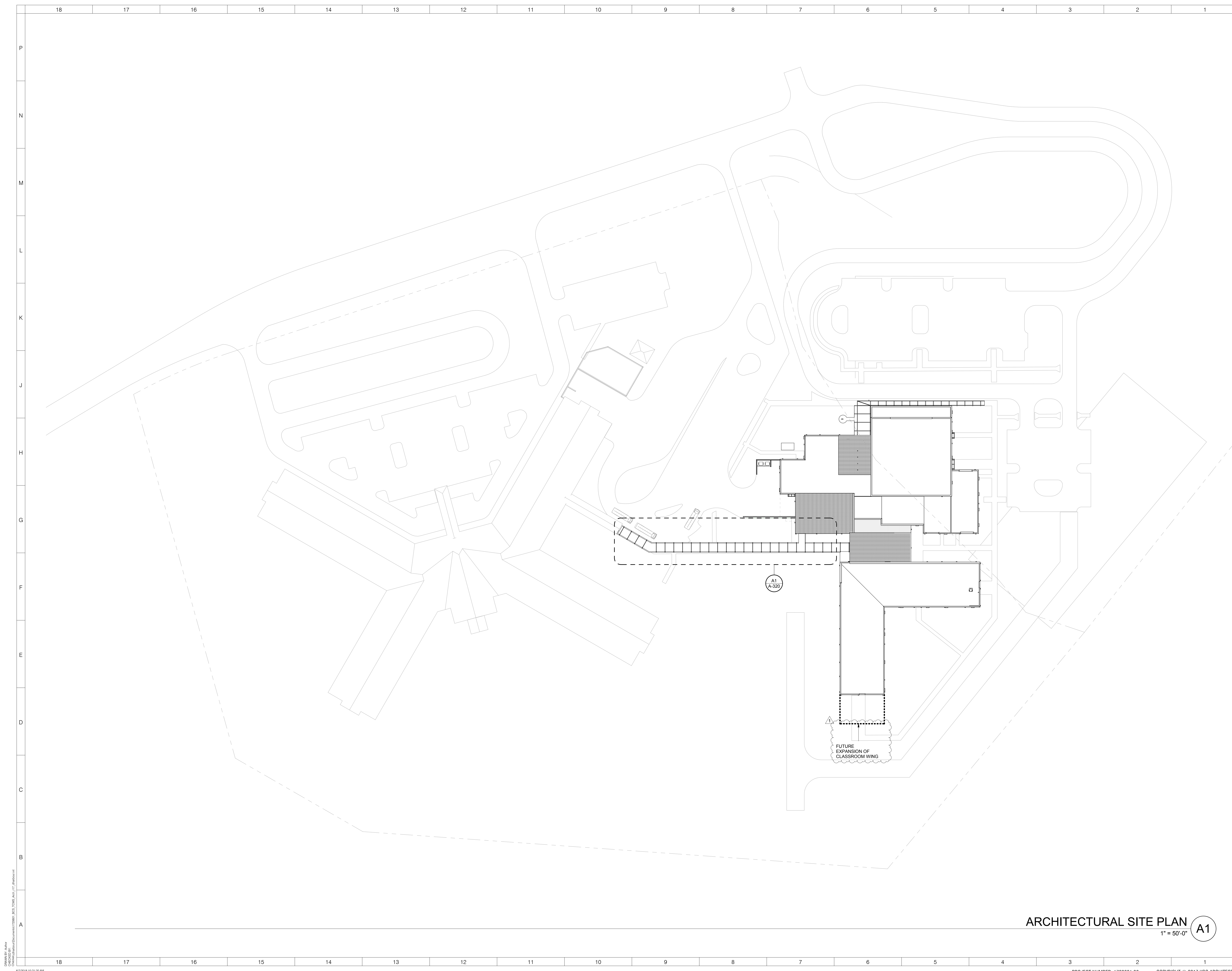
Part Description: HUBBELL HBLC30163TT CORD REEL W/ TAP

Technical Description:CORD REEL 30FT 16/3 WITH TRIPLE TAP

UPC: 78358519855

Your Price: \$153.70 / ea

Total Available: This Item Usually Ships Same Day



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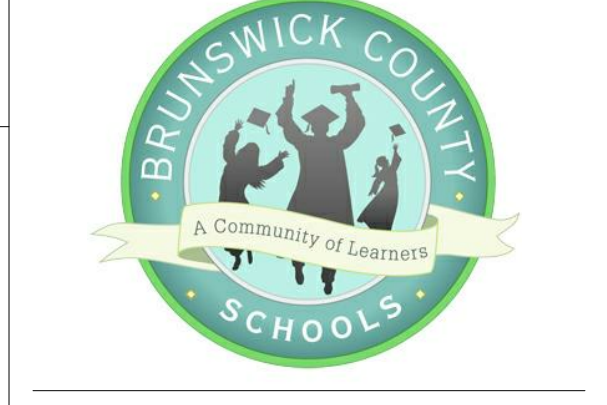
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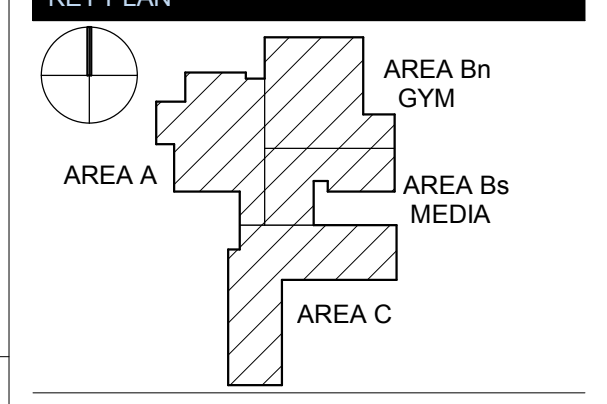
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REVISIONS

No.	Description	Date
1	Acknowledgment #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

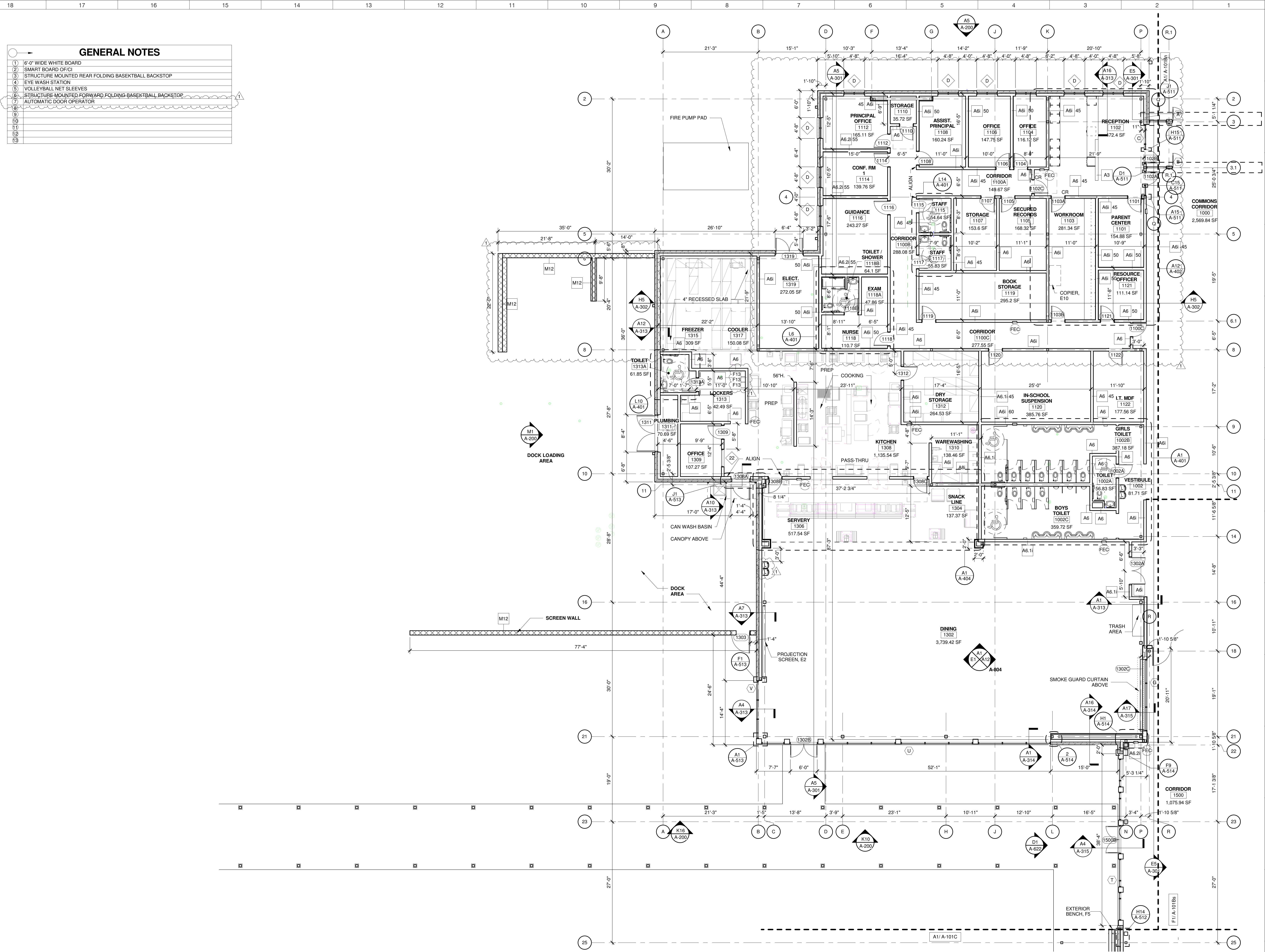
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SHEET NAME: ARCHITECTURAL SITE PLAN

SHEET NUMBER:

ARCHITECTURAL SITE PLAN **A1**
1" = 50'-0"

A-011



- GENERAL NOTES**
- 6" WIDE WHITE BOARD
 - SMART BOARD OFCI
 - STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
 - EYE WASH STATION
 - VOLLEYBALL NET SLEEVES
 - STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
 - AUTOMATIC DOOR OPERATOR
 -
 -
 -
 -
 -
 -
 -

FLOOR PLAN LEVEL 1 - AREA A
1/8" = 1'-0" A1

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KEY PLAN
AREA A
AREA Bn GYM
AREA Bs MEDIA
AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

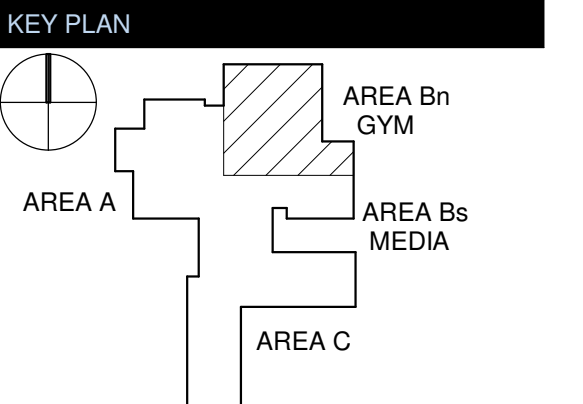
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SHEET NUMBER: A-101A

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1	Addendum #1	6-7-2018

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DATE: 05/24/2018

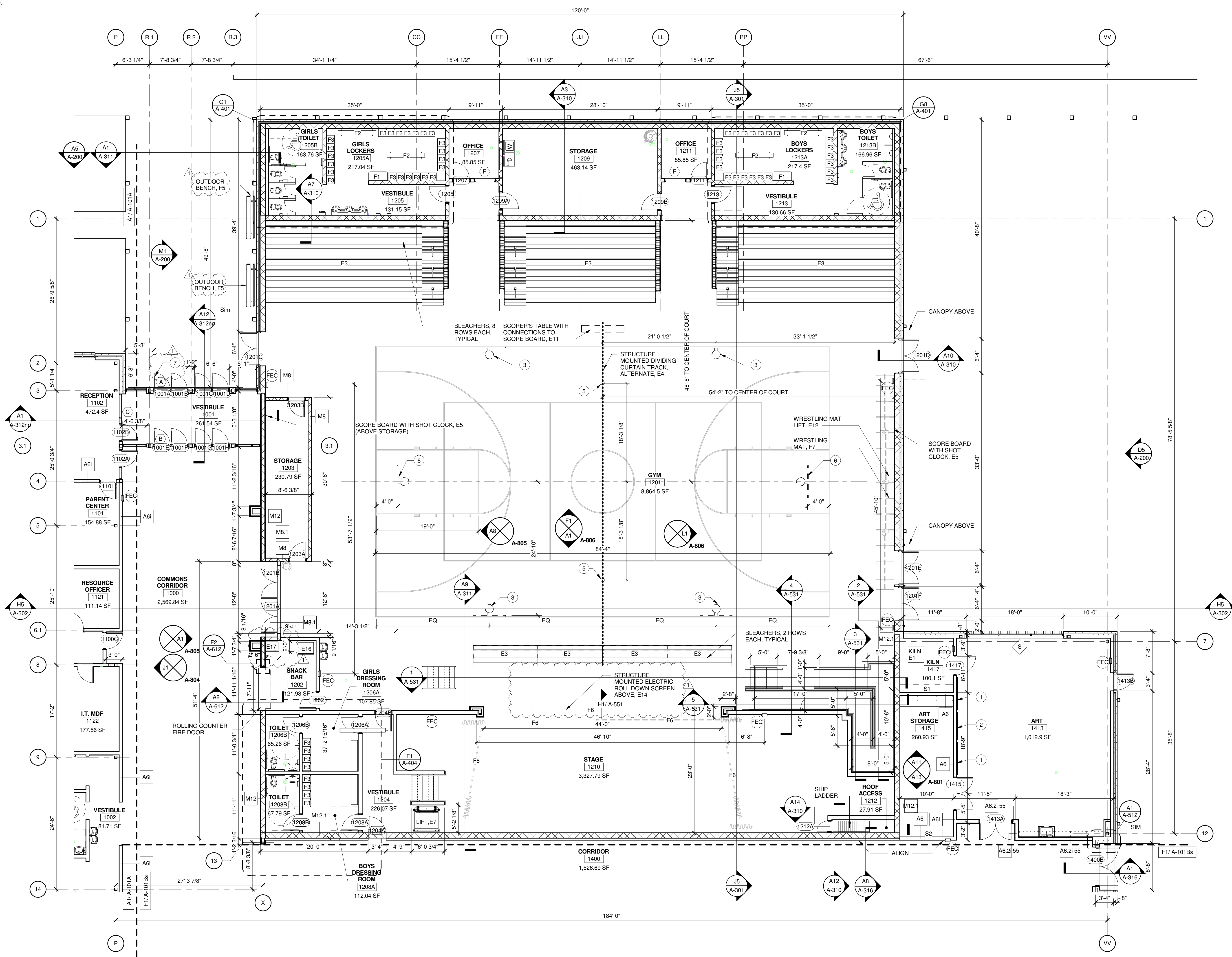
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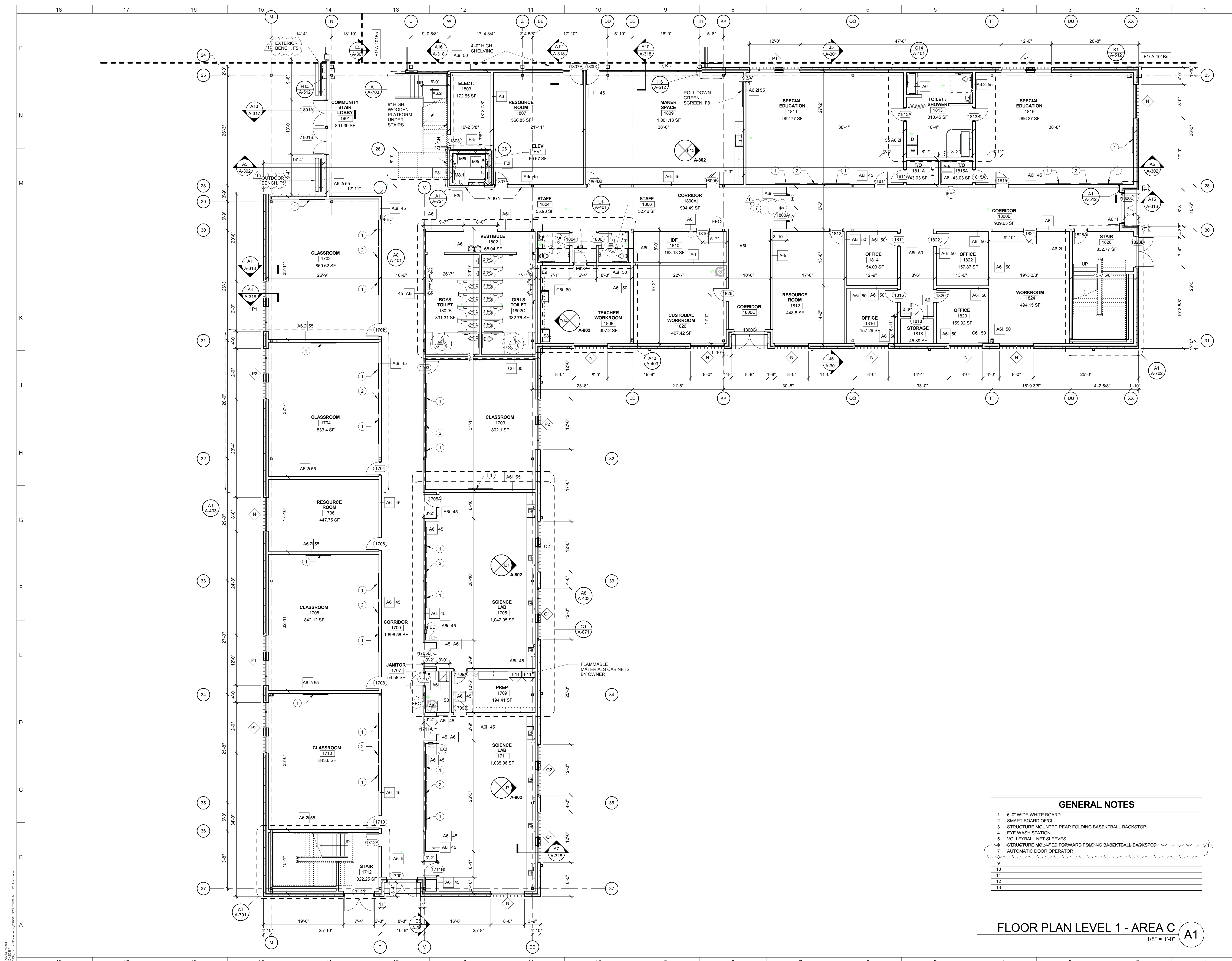
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A-101Bn

- GENERAL NOTES**
- 6'-0" WIDE WHITE BOARD
 - SMART BOARD O.F.C.I
 - STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
 - EYE WASH STATION
 - VOLLEYBALL NET SLEEVES
 - STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
 - AUTOMATIC DOOR OPERATOR



FLOOR PLAN LEVEL 1 - AREA Bn
1/8" = 1'-0" A1



GENERAL NOTES

- 6'-0" WIDE WHITE BOARD
- SMART BOARD OF/CI
- STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
- EYE WASH STATION
- VOLLEYBALL NET SLEEVES
- STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
- AUTOMATIC DOOR OPERATOR
-
-
-
-
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-

FLOOR PLAN LEVEL 1 - AREA C
1/8" = 1'-0" A1

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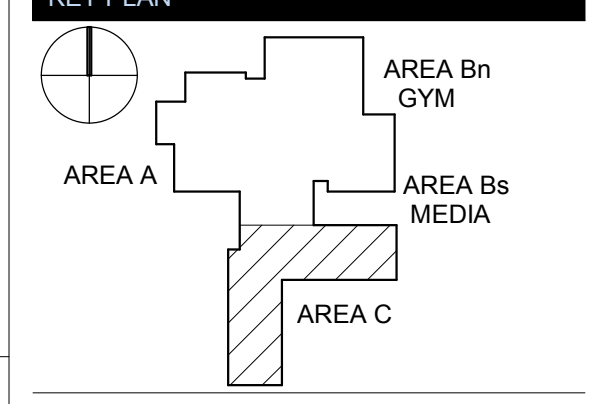
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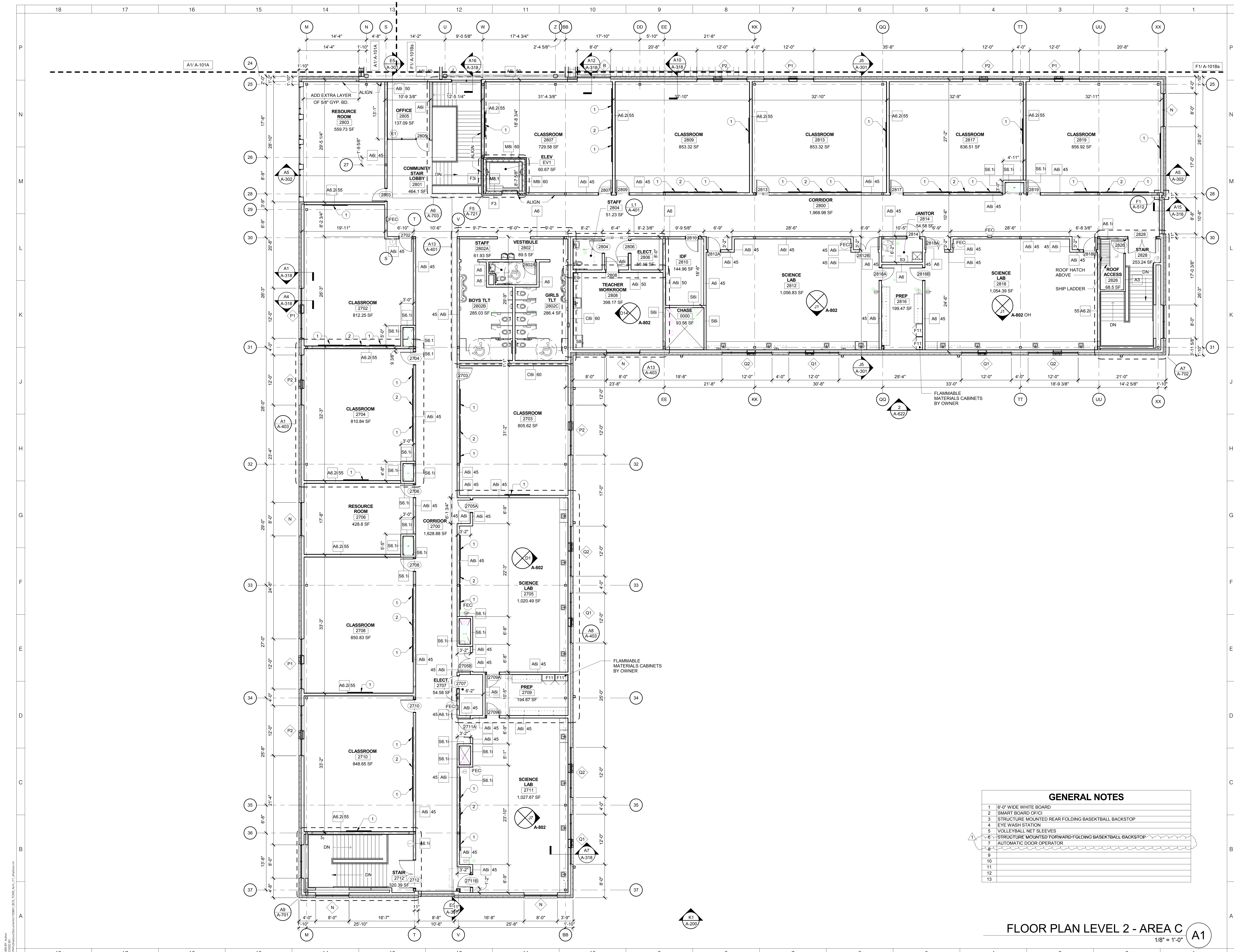
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No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME:
FLOOR PLAN LEVEL 1 - AREA C
SHEET NUMBER:

A-101C



GENERAL NOTES

- 6'-0" WIDE WHITE BOARD
- SMART BOARD OF CI
- STRUCTURE MOUNTED REAR FOLDING BASKETBALL BACKSTOP
- EYE WASH STATION
- VOLLEYBALL NET SLEEVES
- STRUCTURE MOUNTED FORWARD FOLDING BASKETBALL BACKSTOP
- AUTOMATIC DOOR OPERATOR
-
-
-
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FLOOR PLAN LEVEL 2 - AREA C
1/8" = 1'-0" A1

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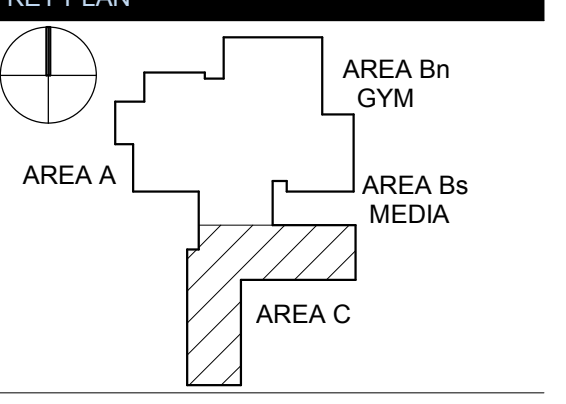
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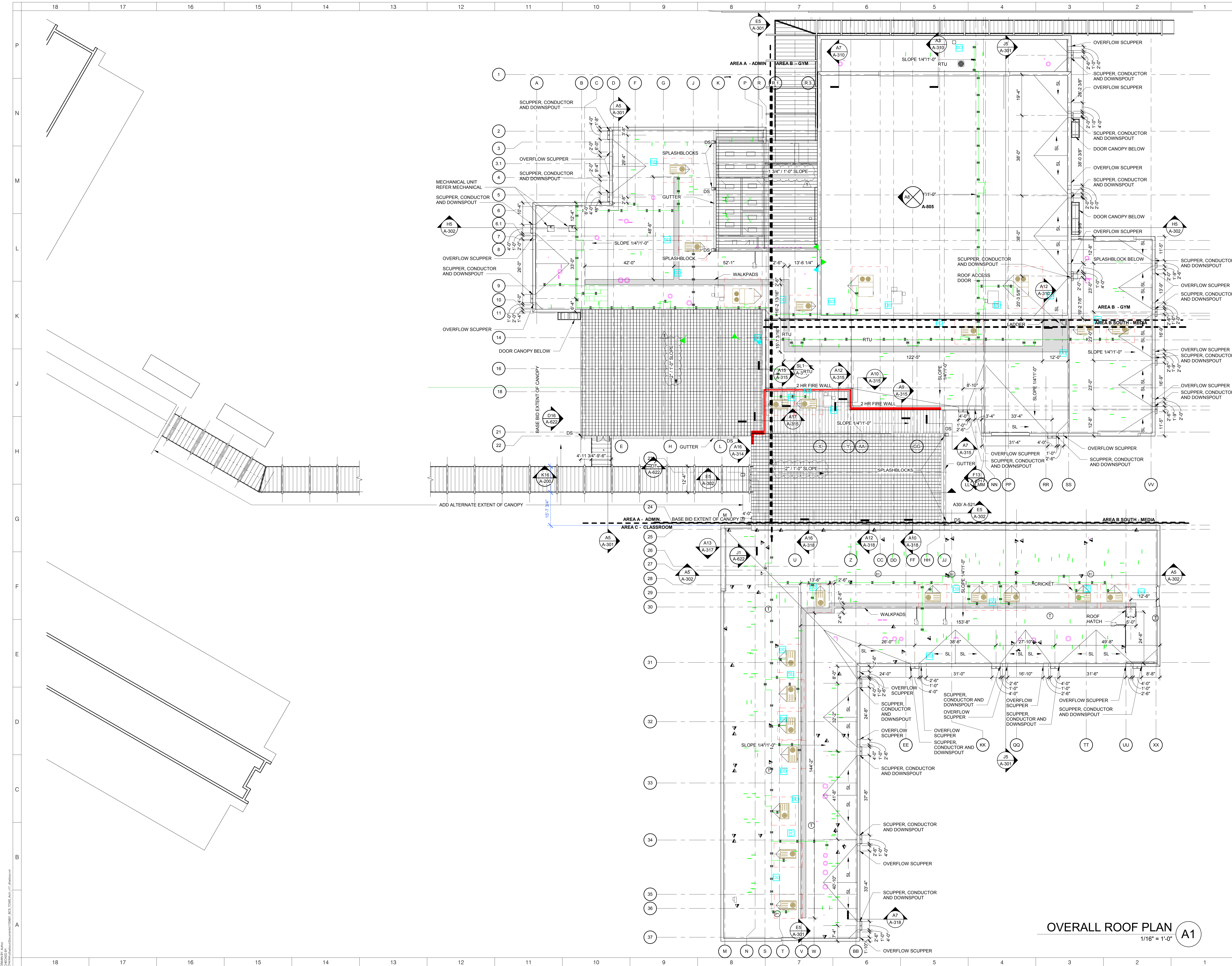


REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: FLOOR PLAN LEVEL 2 - AREA C
SHEET NUMBER:



OVERALL ROOF PLAN
1/16" = 1'-0" **A1**

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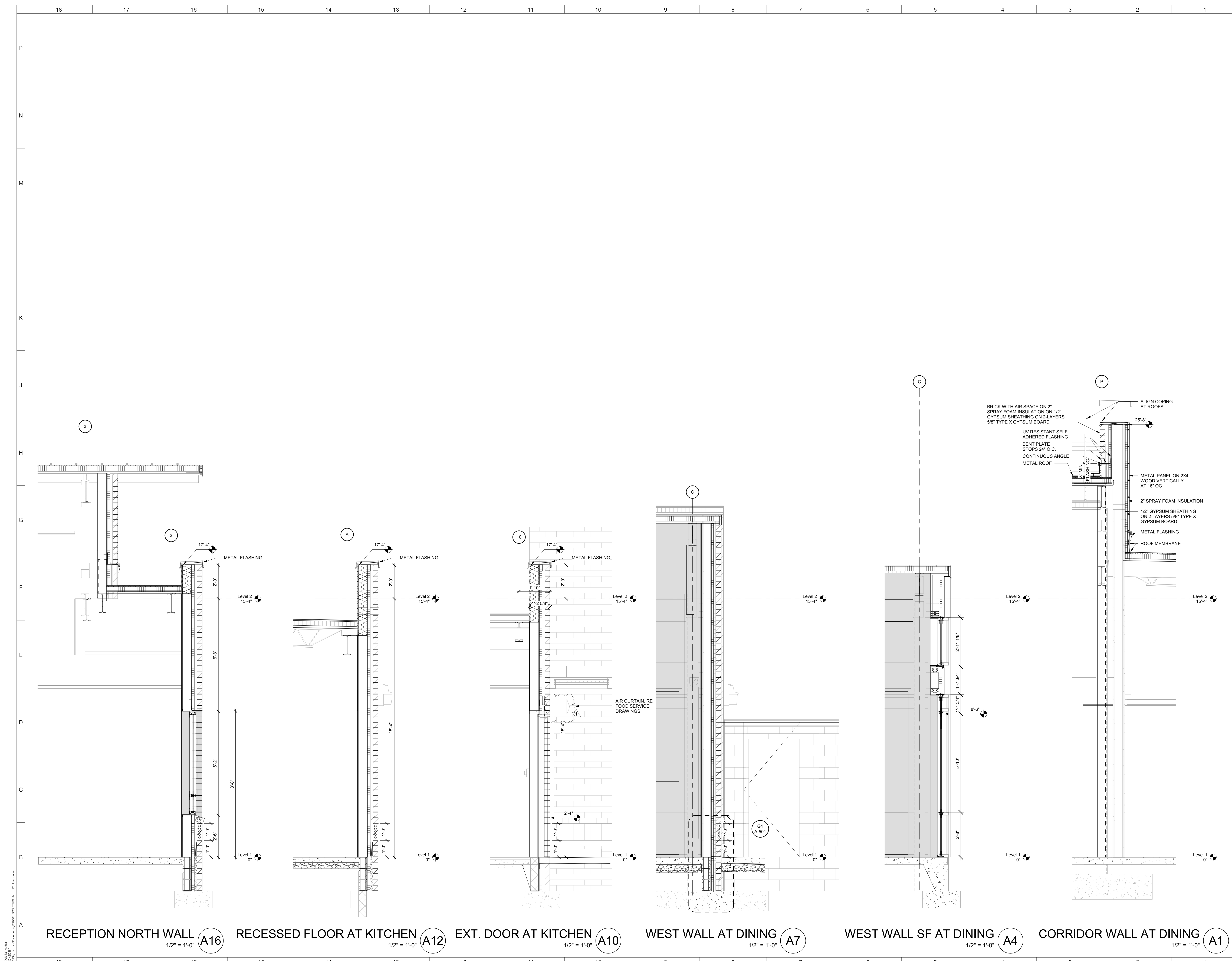
KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/16" = 1'-0"
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SHEET NUMBER: A-121

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RECEPTION NORTH WALL
1/2" = 1'-0" A16

RECESSED FLOOR AT KITCHEN
1/2" = 1'-0" A12

EXT. DOOR AT KITCHEN
1/2" = 1'-0" A10

WEST WALL AT DINING
1/2" = 1'-0" A7

WEST WALL SF AT DINING
1/2" = 1'-0" A4

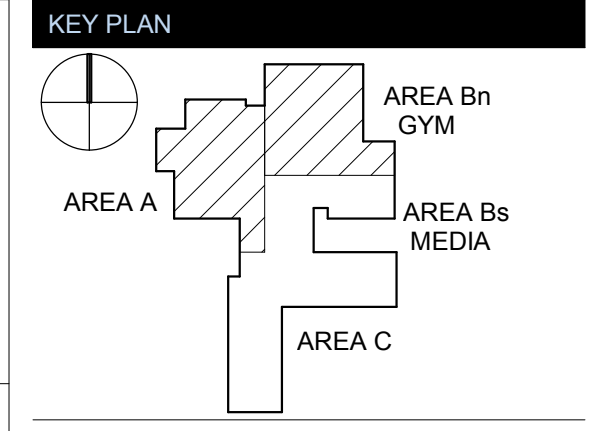
CORRIDOR WALL AT DINING
1/2" = 1'-0" A1

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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
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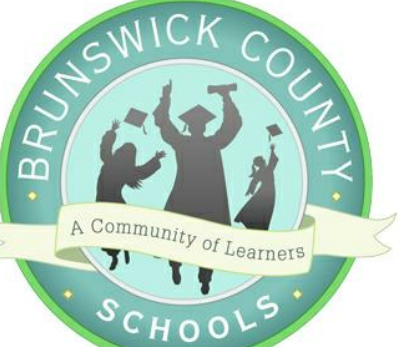


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No.	Description	Date
1	Addendum #1	6-7-2018

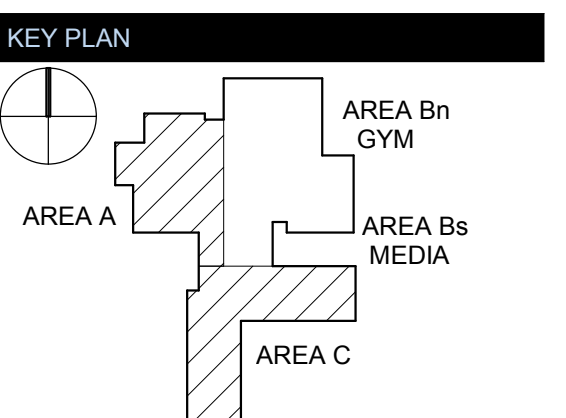
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DATE: 05/24/2018
SCALE: 1/2" = 1'-0"
SHEET NAME: WALL SECTIONS - ADMIN, DINING

SHEET NUMBER:
A-313



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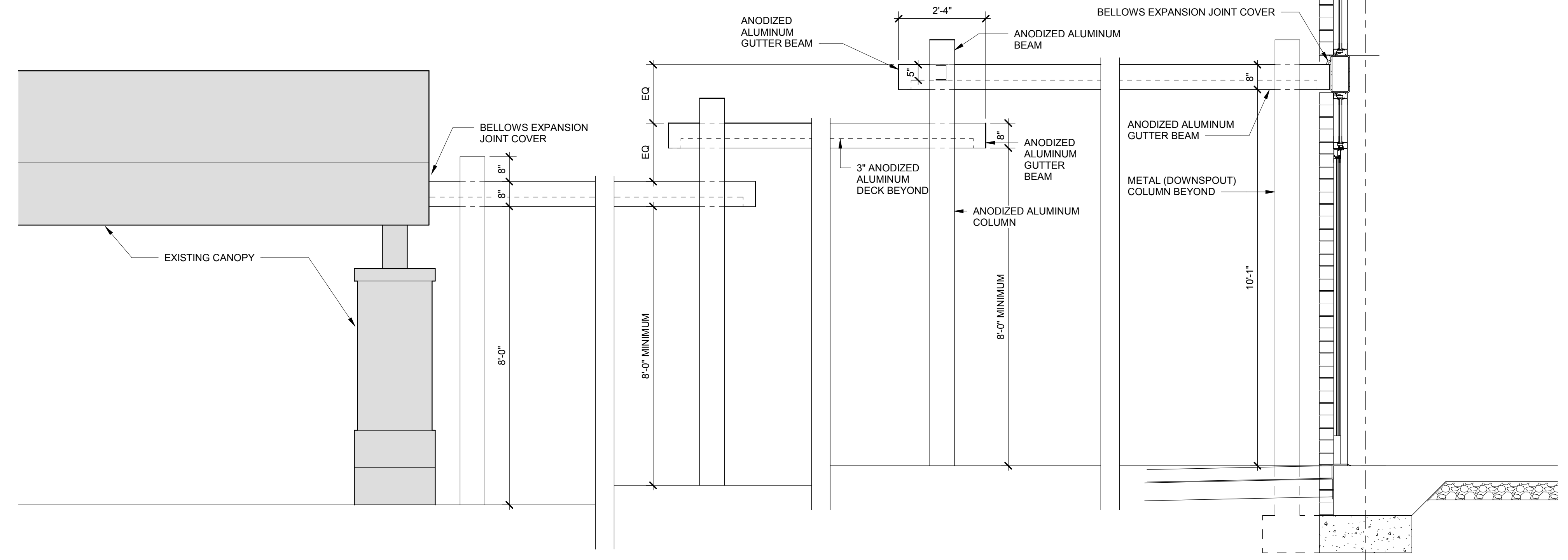
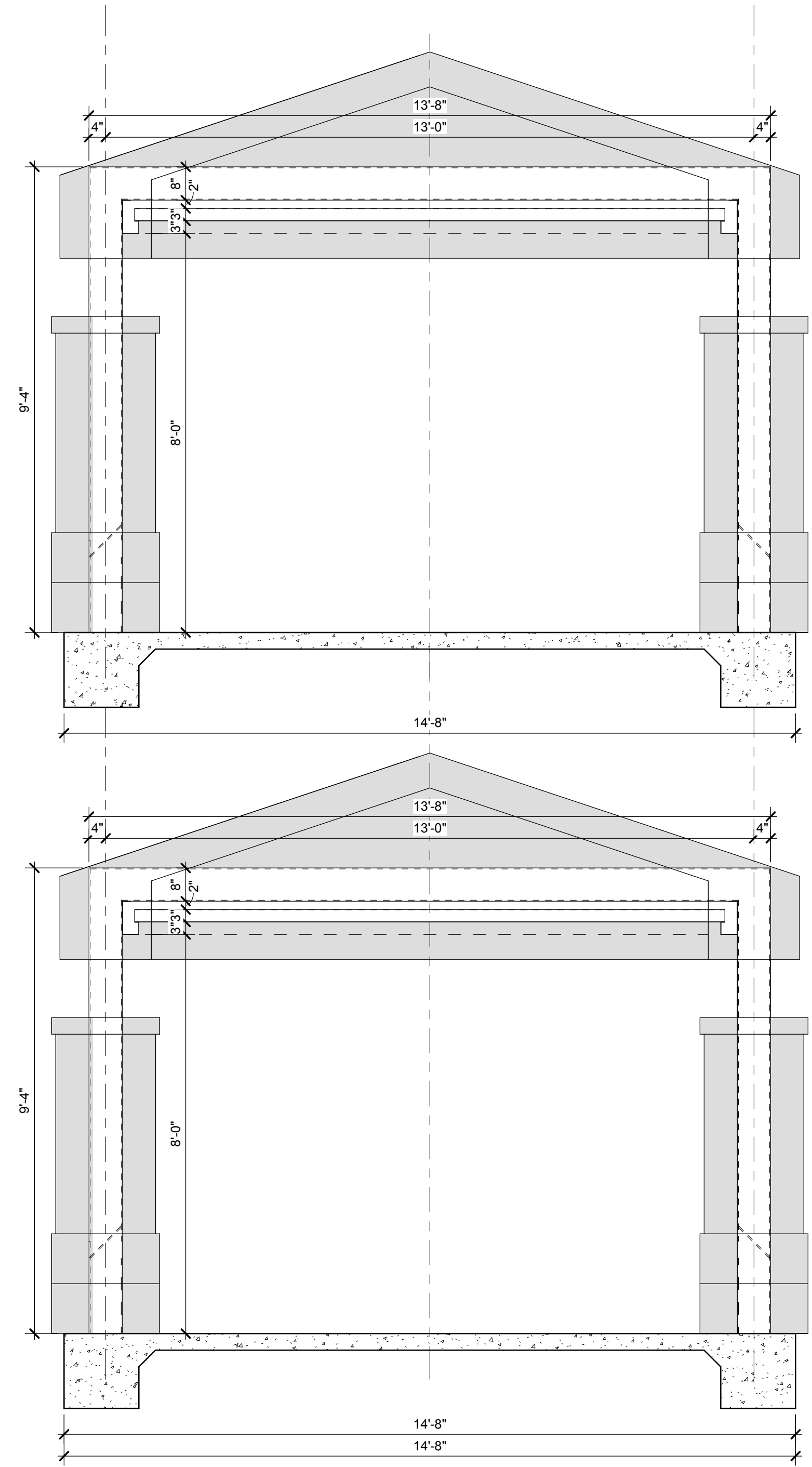


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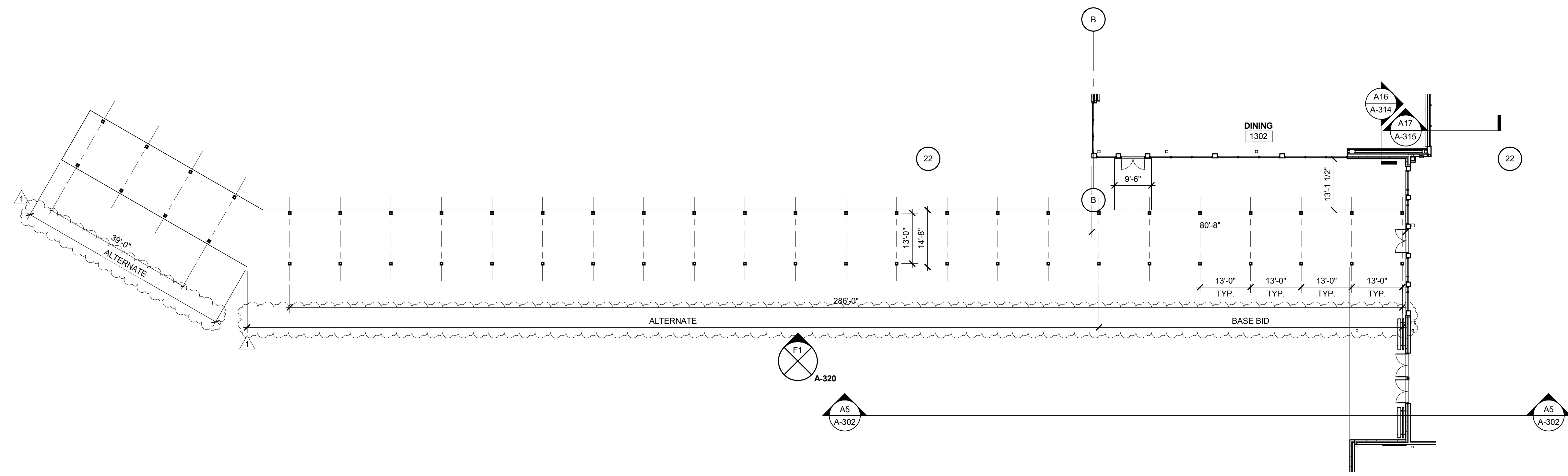
No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: CANOPY SECTIONS

SHEET NUMBER:
A-320



CANOPY ELEVATION F1
1/2" = 1'-0"

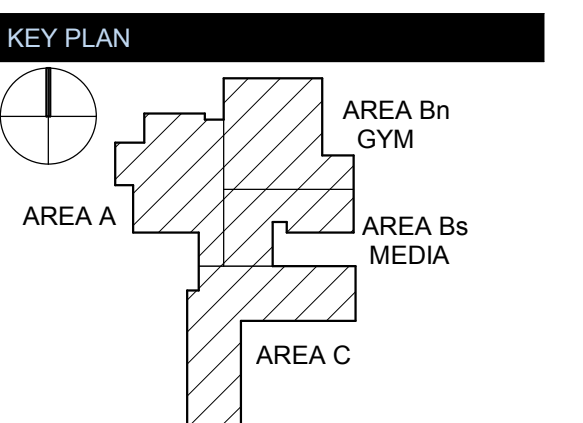


CANOPY AT BUS DROP-OFF A1
1/16" = 1'-0"



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No.	Description	Date
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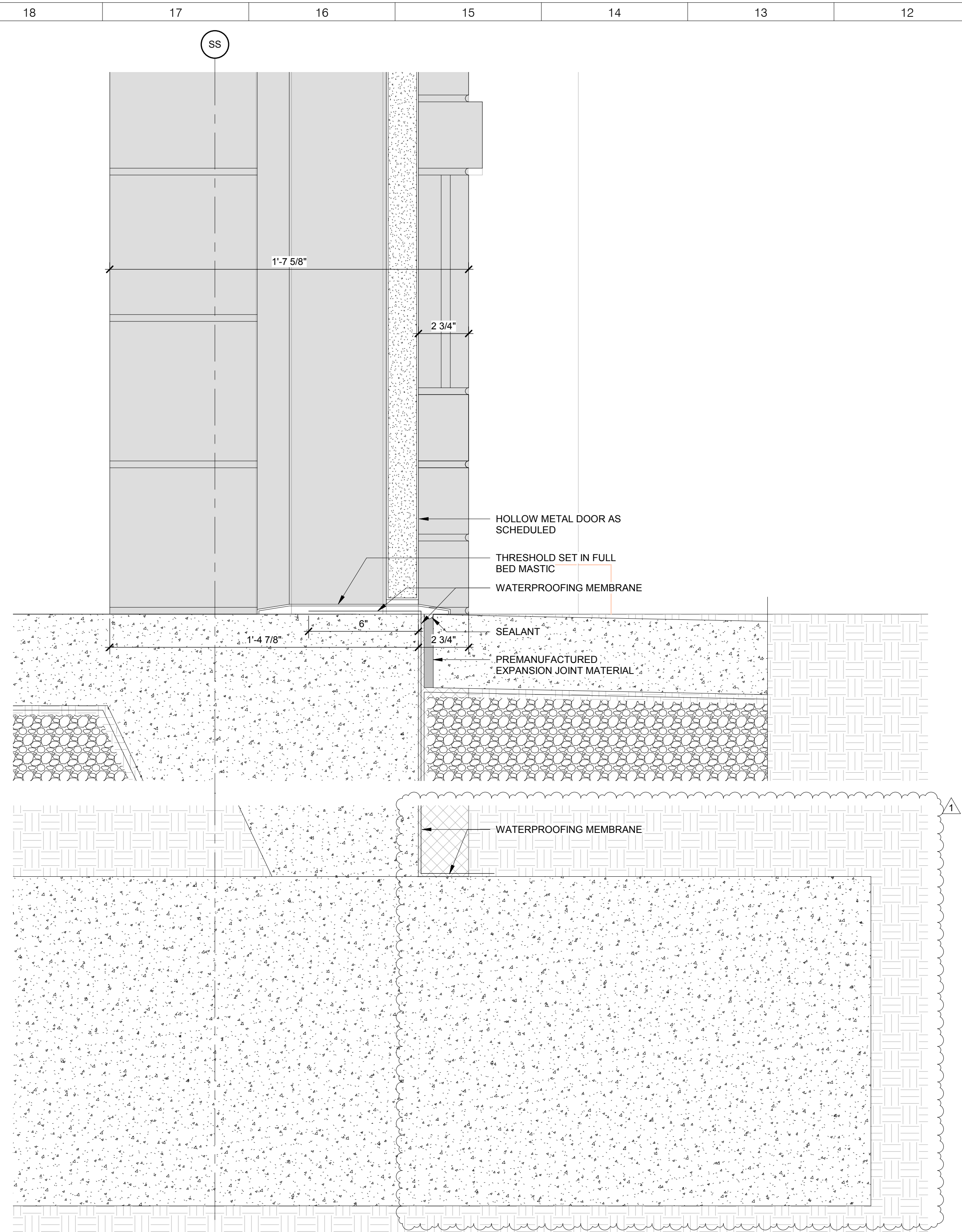
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DATE: 05/24/2018

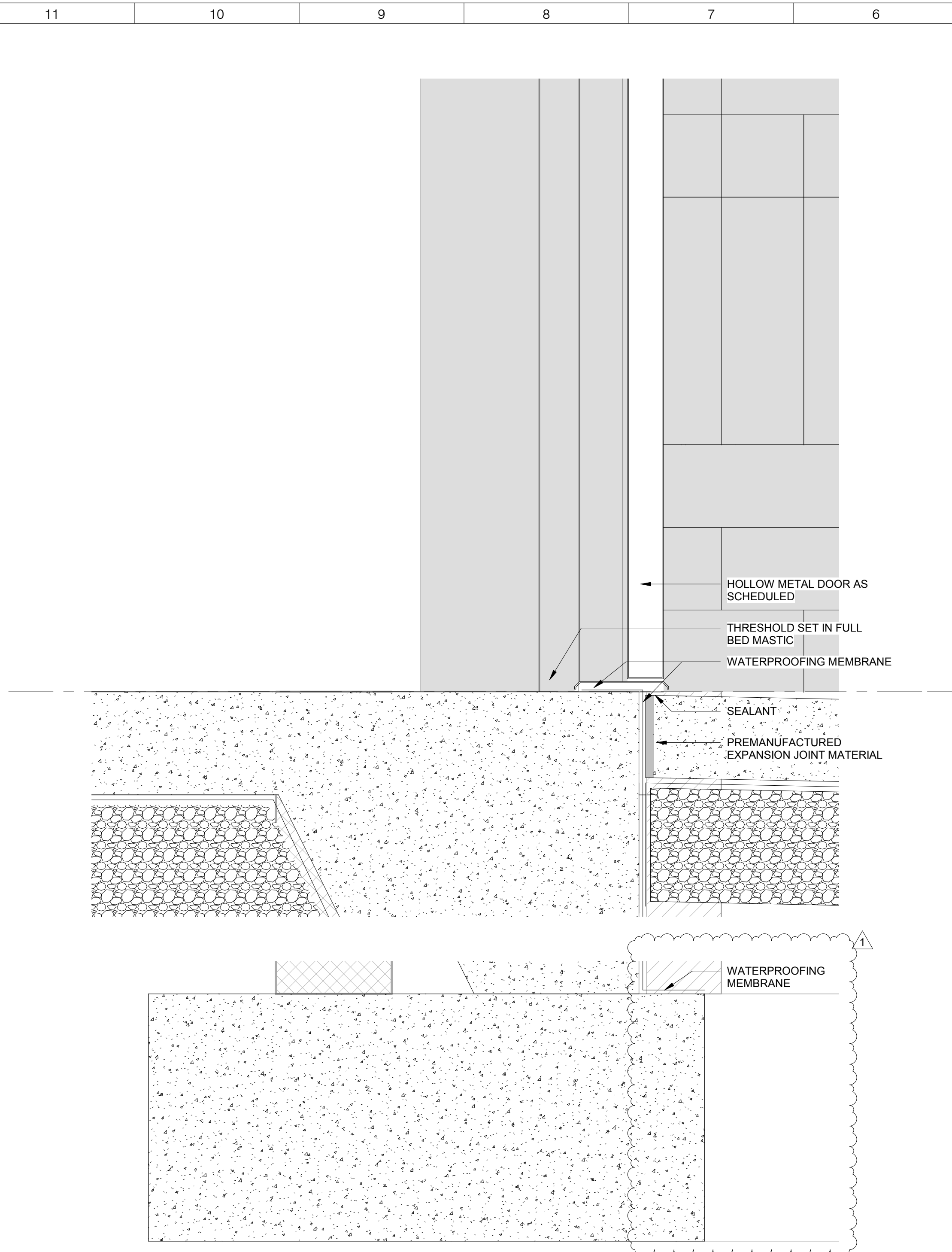
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SHEET NAME: EXTERIOR SECTION DETAILS

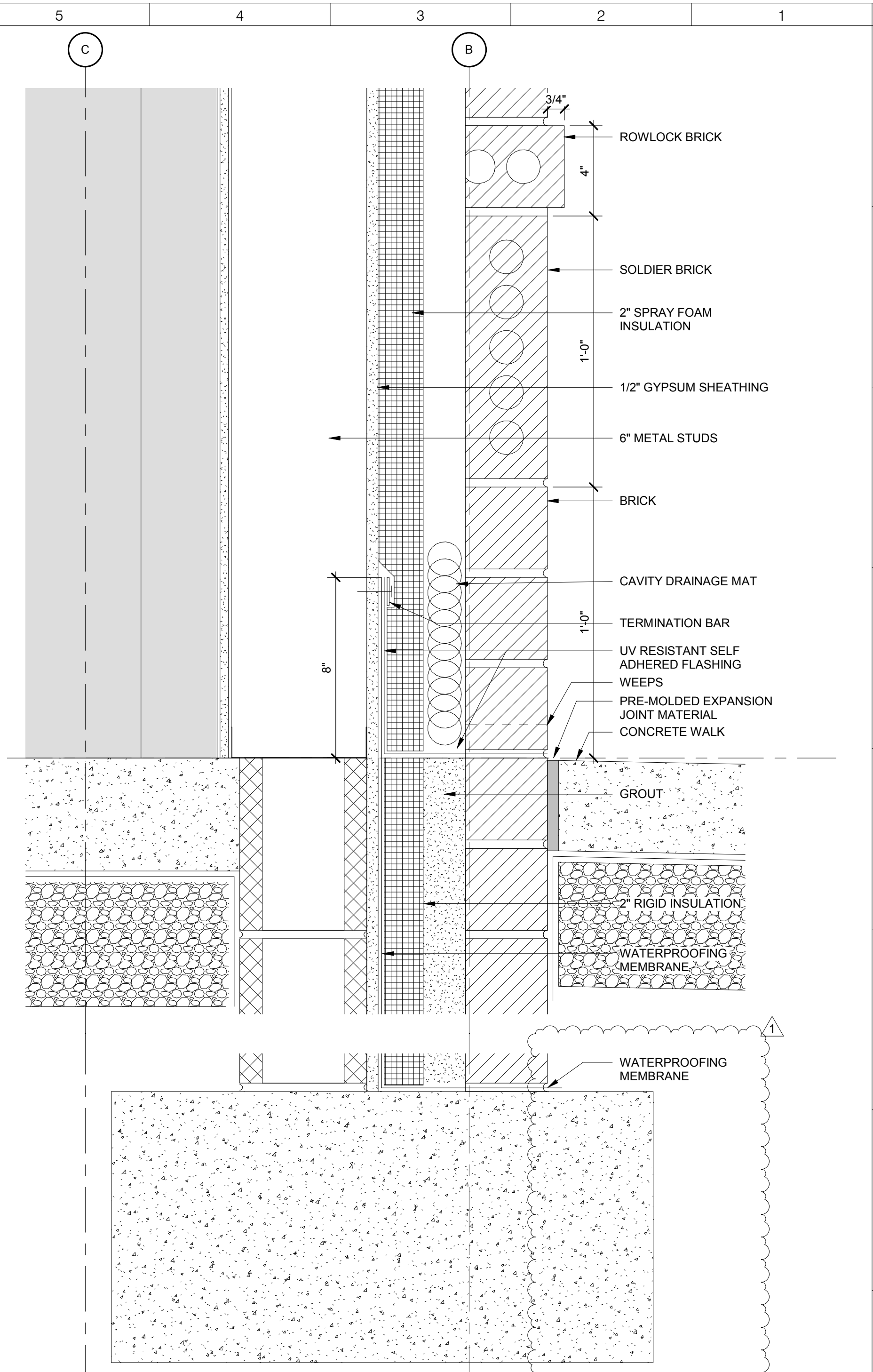
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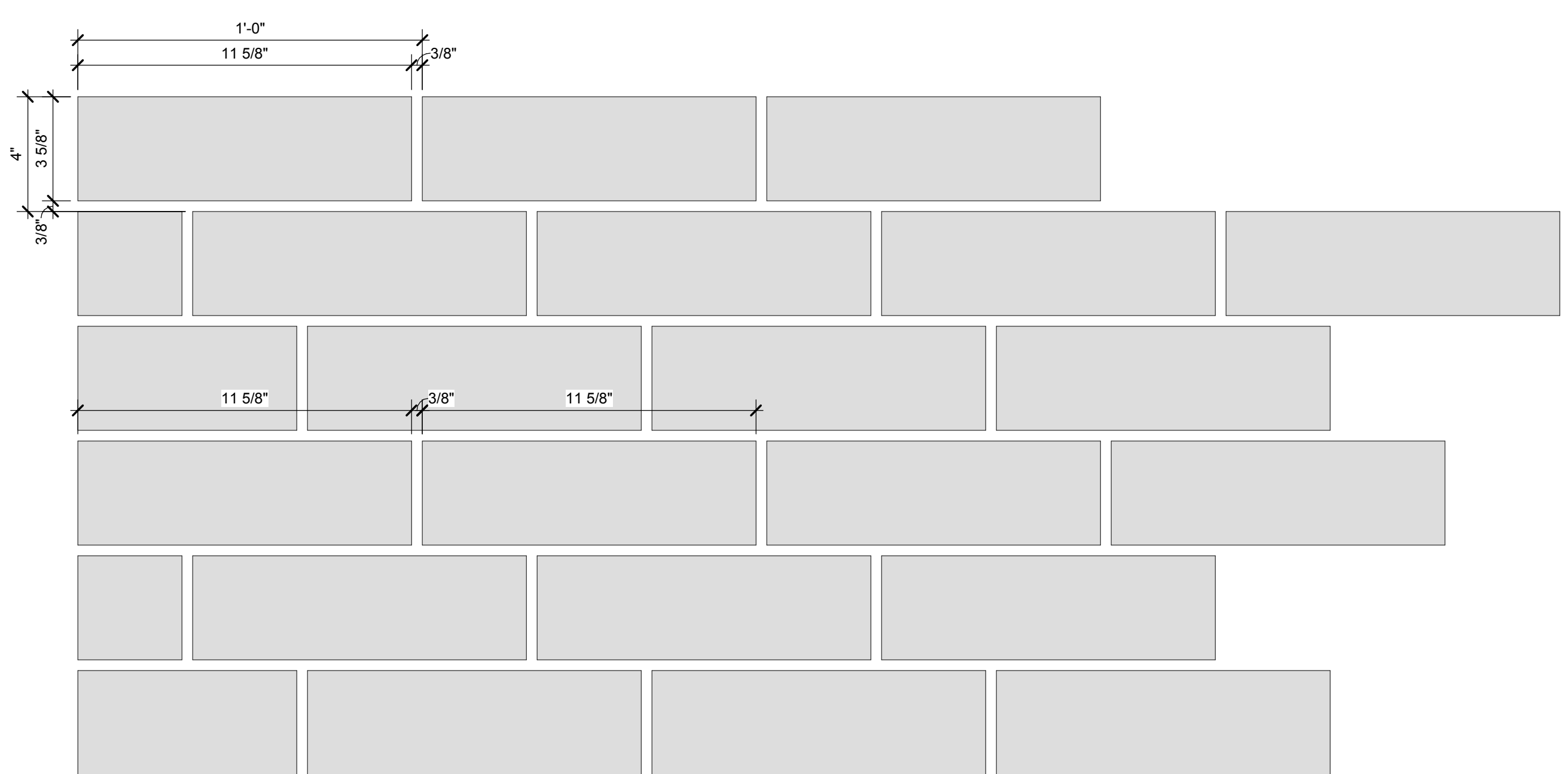
SECTION DETAIL AT CMU EXTERIOR DOOR THRESHOLD 3" = 1'-0" (F12)



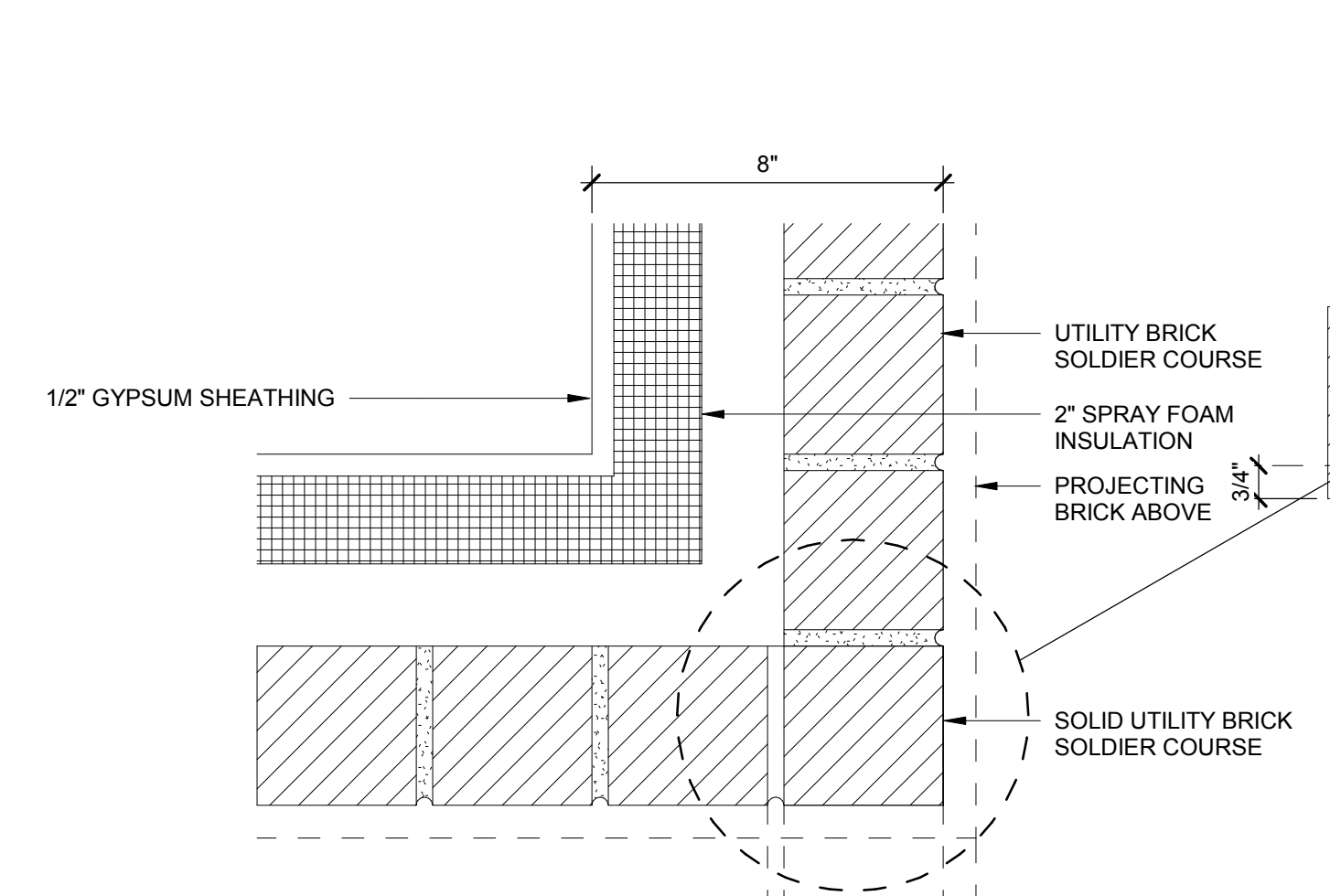
SECTION DETAIL AT FRAMED EXTERIOR DOOR THRESHOLD 3" = 1'-0" (G6)



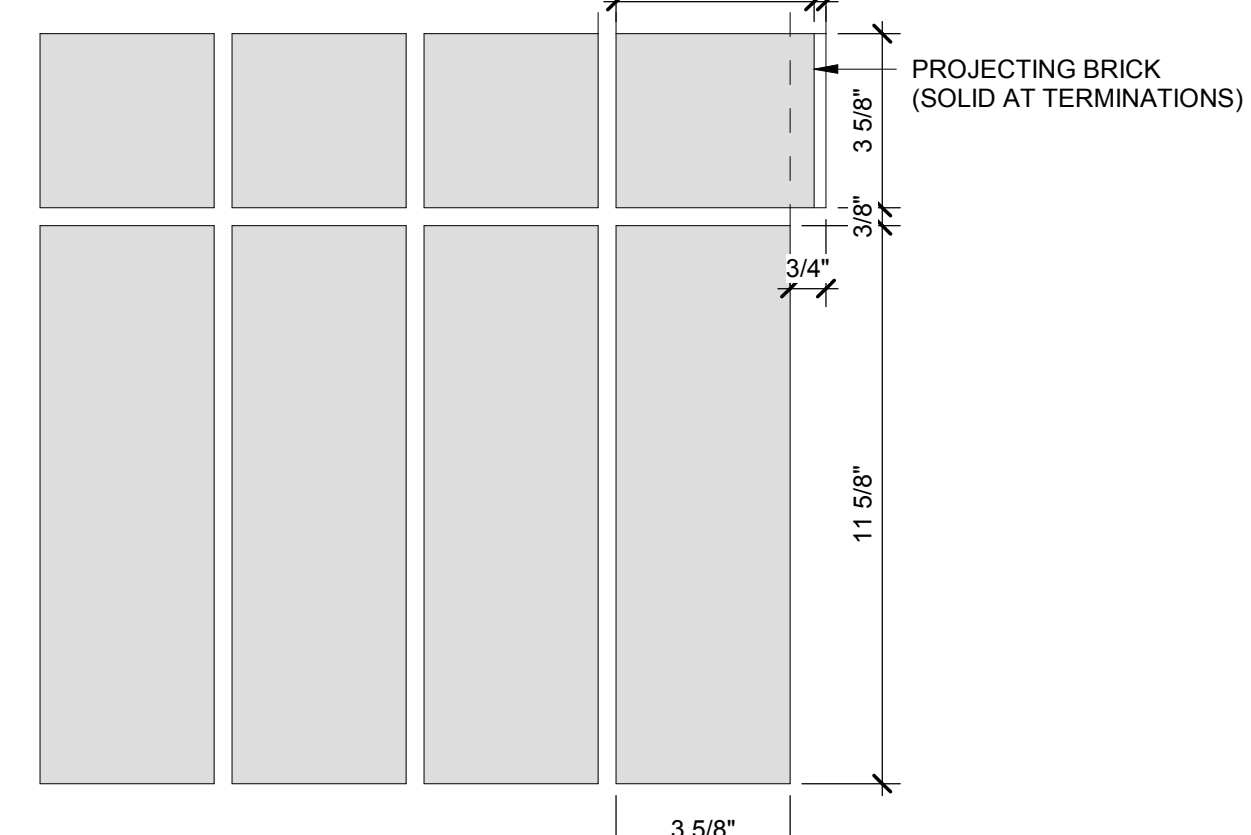
SECTION DETAIL AT EXTERIOR FRAMED WALL 3" = 1'-0" (G1)



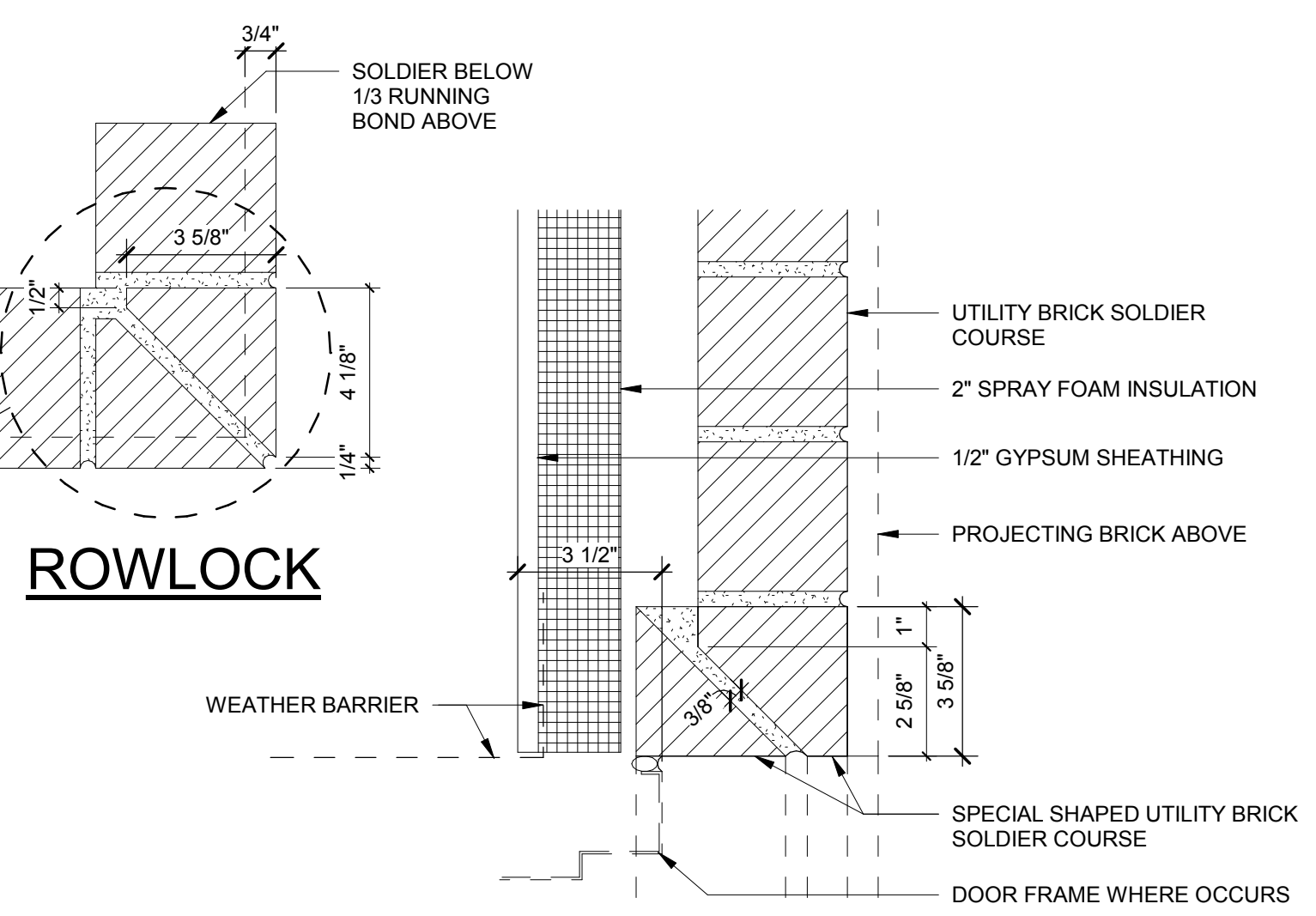
1/3 BRICK RUNNING BOND 3" = 1'-0" (A10)



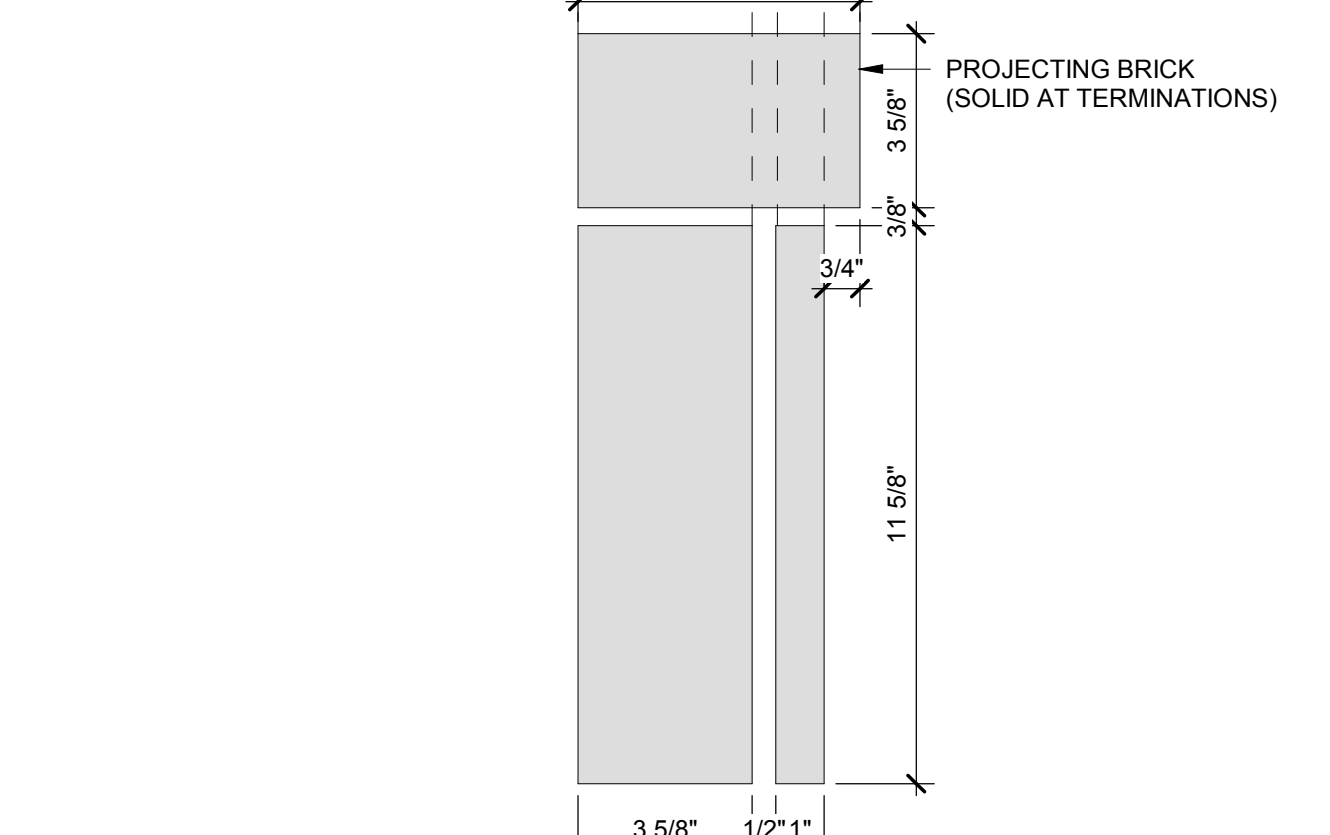
CORNER PLAN AT SOLDIER COURSE



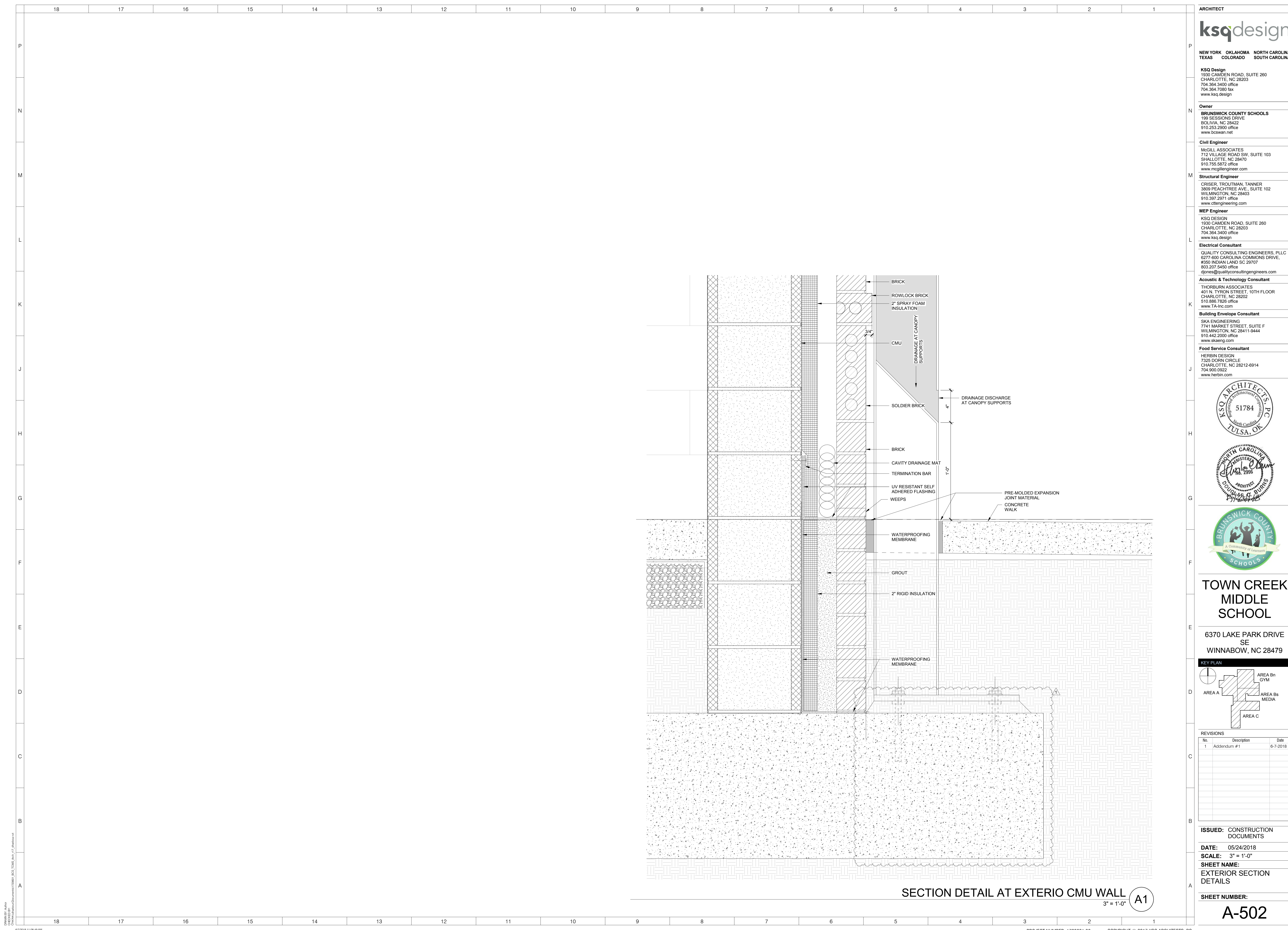
CORNER ELEVATION AT SOLDIER COURSE



OPENING PLAN AT SOLDIER COURSE



OPENING ELEVATION AT SOLDIER COURSE



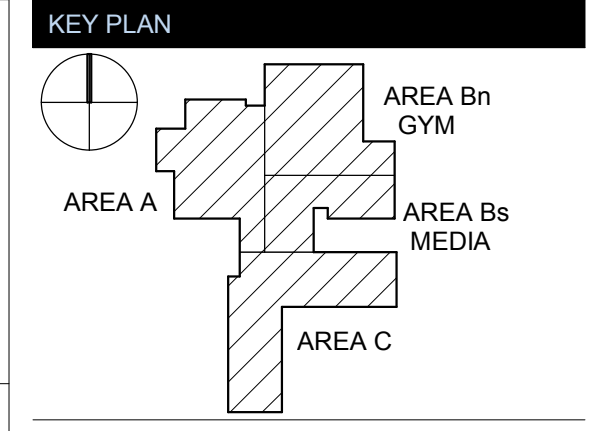
SECTION DETAIL AT EXTERIO CMU WALL (A1)
3" = 1'-0"

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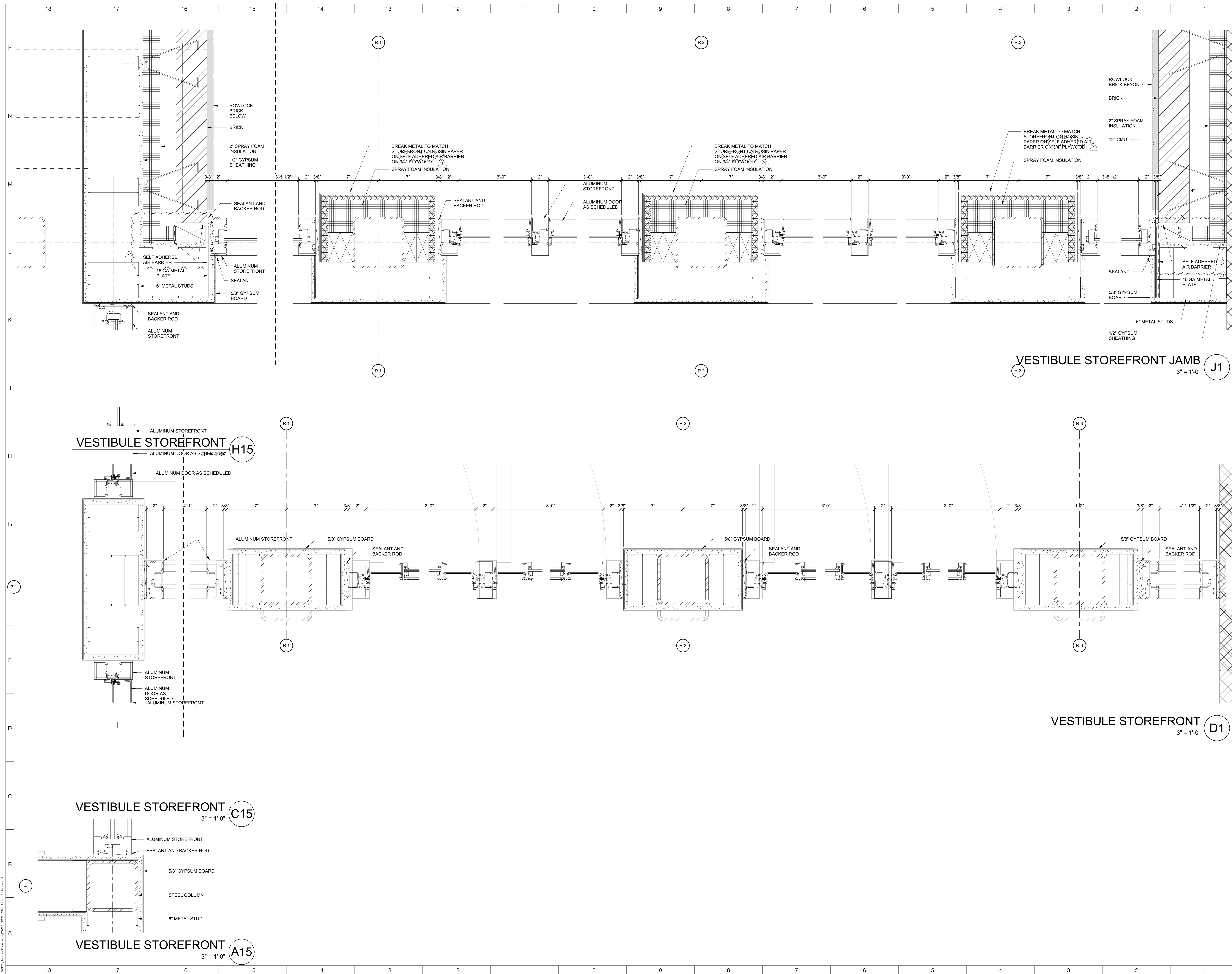
6370 LAKE PARK DRIVE SE
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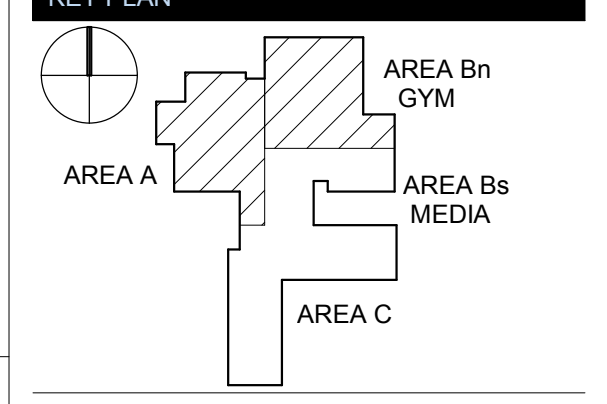
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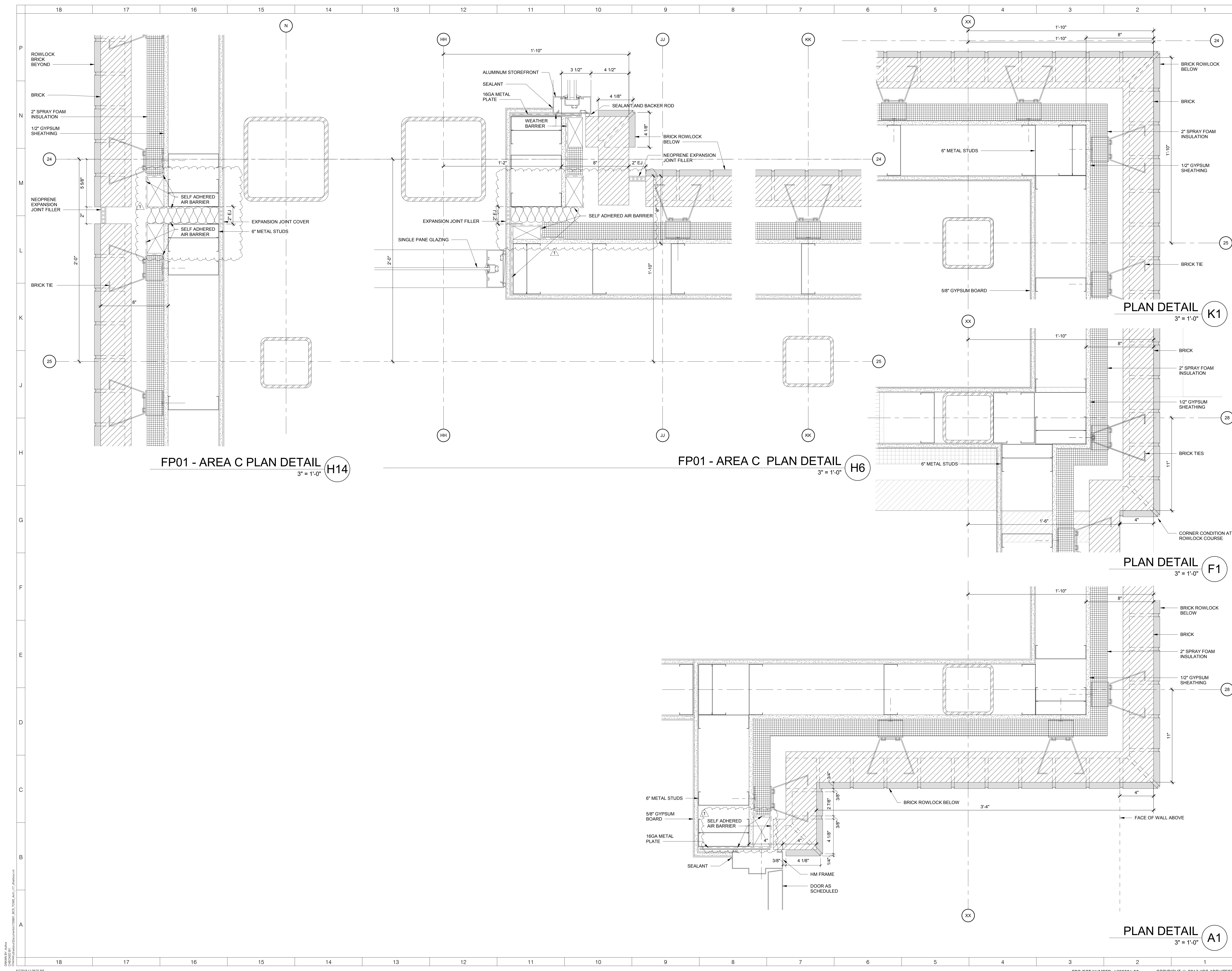


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No.	Description	Date
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ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 3" = 1'-0"
SHEET NAME: EXTERIOR PLAN DETAILS
SHEET NUMBER:



FP01 - AREA C PLAN DETAIL H14
3" = 1'-0"

FP01 - AREA C PLAN DETAIL H6
3" = 1'-0"

PLAN DETAIL K1
3" = 1'-0"

PLAN DETAIL F1
3" = 1'-0"

PLAN DETAIL A1
3" = 1'-0"

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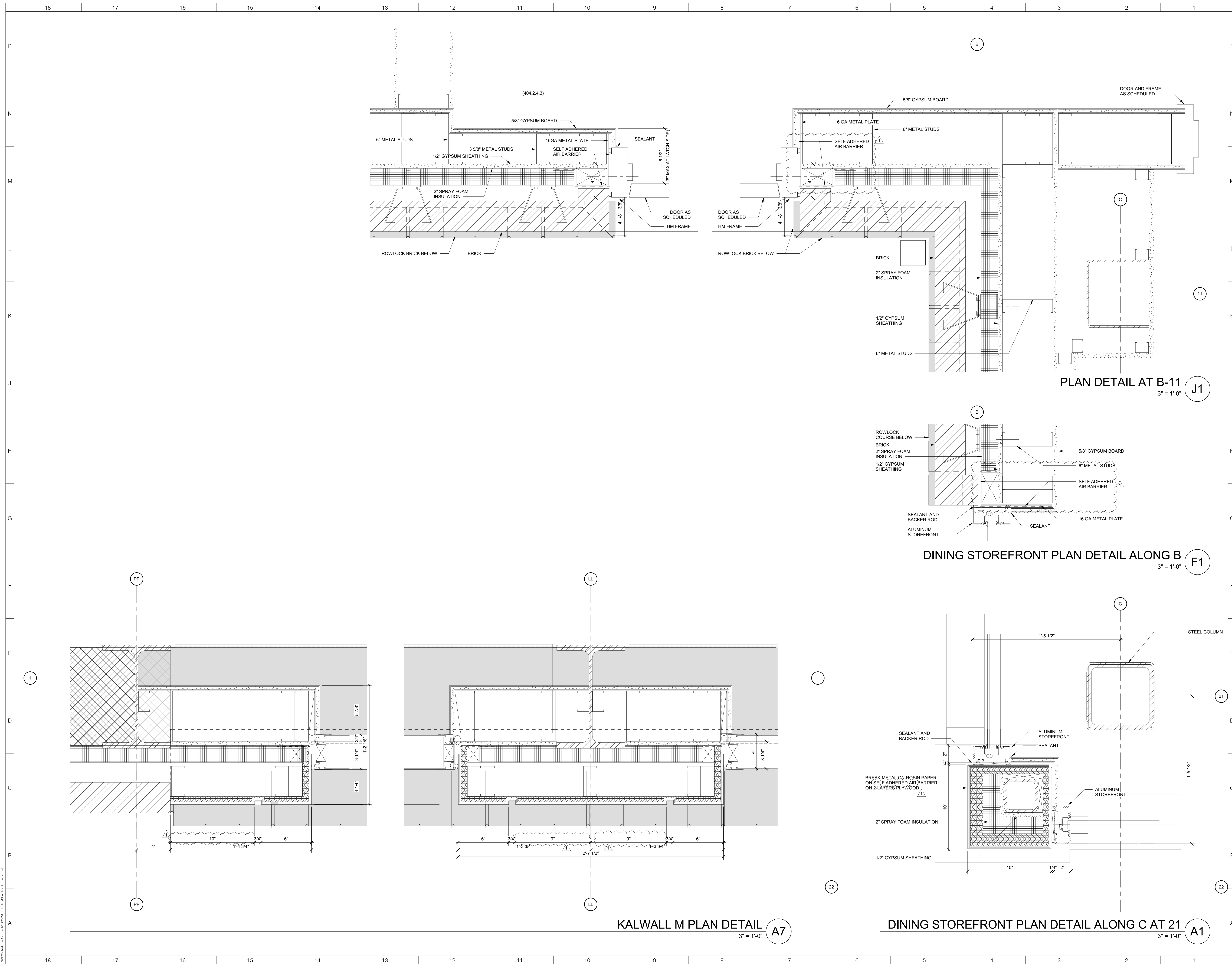
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KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

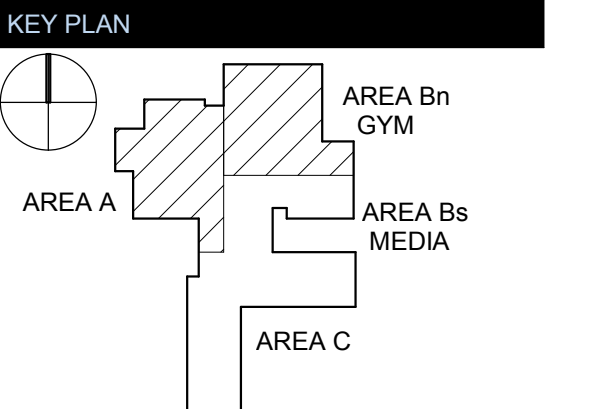
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SHEET NAME: EXTERIOR PLAN DETAILS
SHEET NUMBER: A-512

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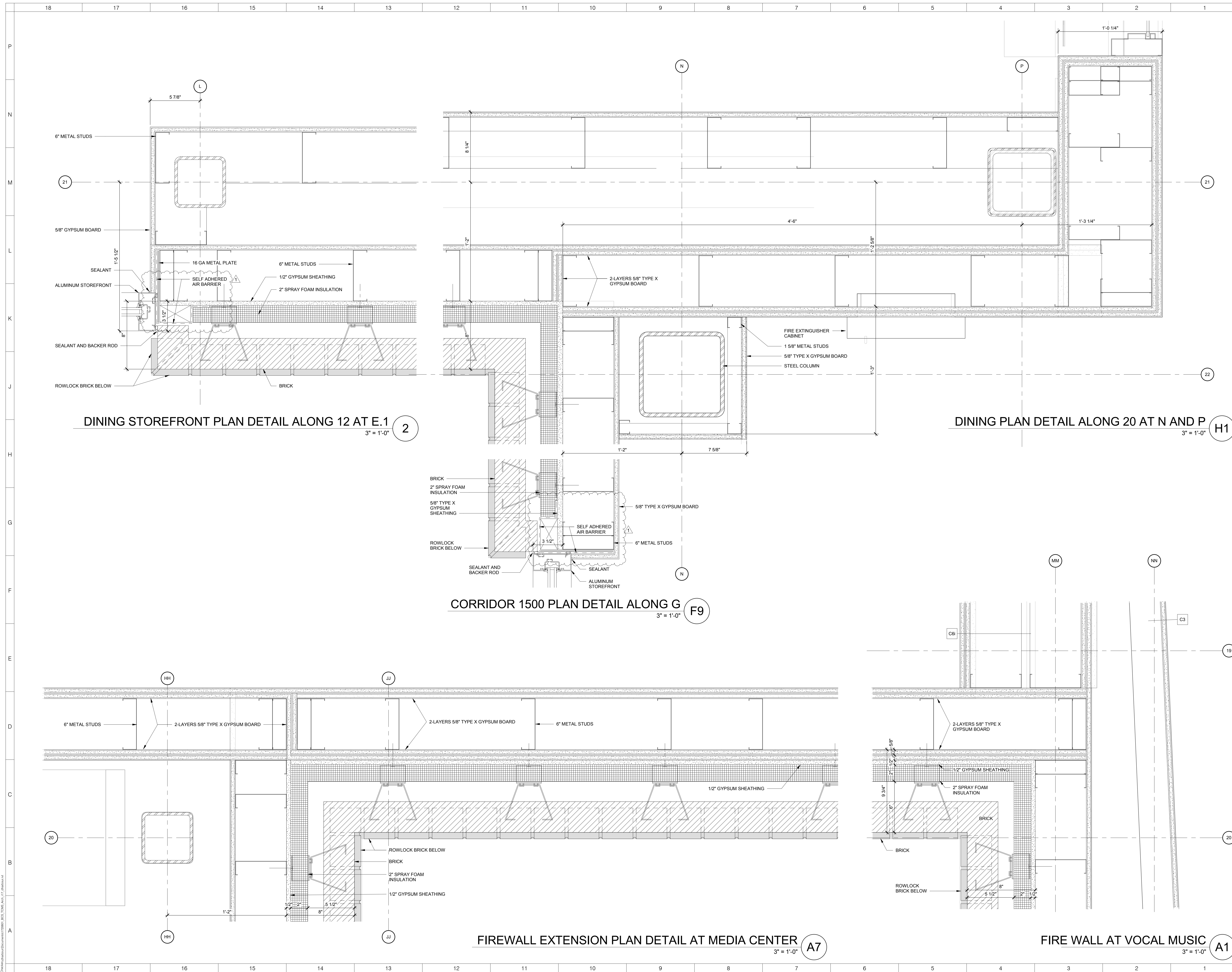
DATE: 05/24/2018

SCALE: 3" = 1'-0"

SHEET NAME: EXTERIOR PLAN DETAILS

SHEET NUMBER:

A-513



DINING STOREFRONT PLAN DETAIL ALONG 12 AT E.1
3" = 1'-0" 2

DINING PLAN DETAIL ALONG 20 AT N AND P
3" = 1'-0" H1

CORRIDOR 1500 PLAN DETAIL ALONG G
3" = 1'-0" F9

FIREWALL EXTENSION PLAN DETAIL AT MEDIA CENTER
3" = 1'-0" A7

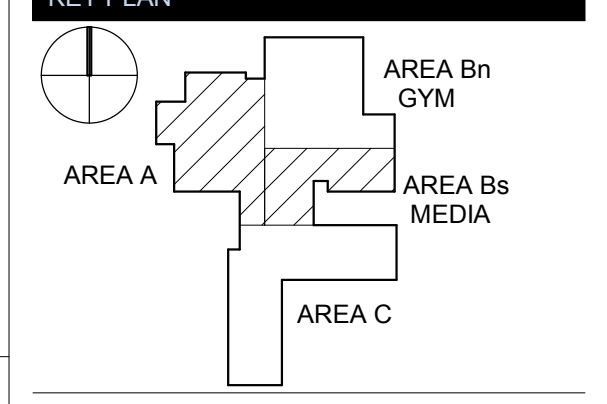
FIRE WALL AT VOCAL MUSIC
3" = 1'-0" A1

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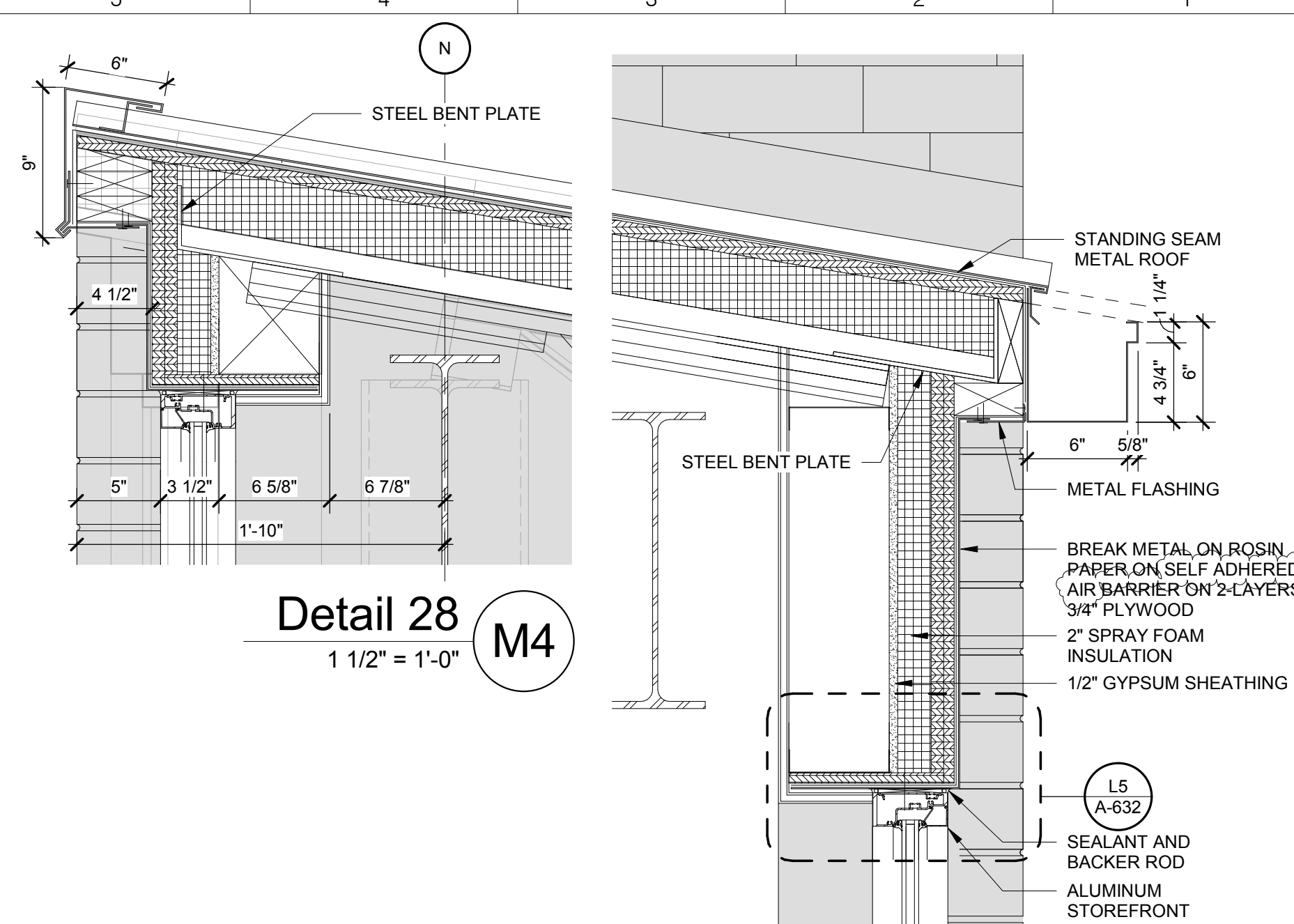


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No.	Description	Date
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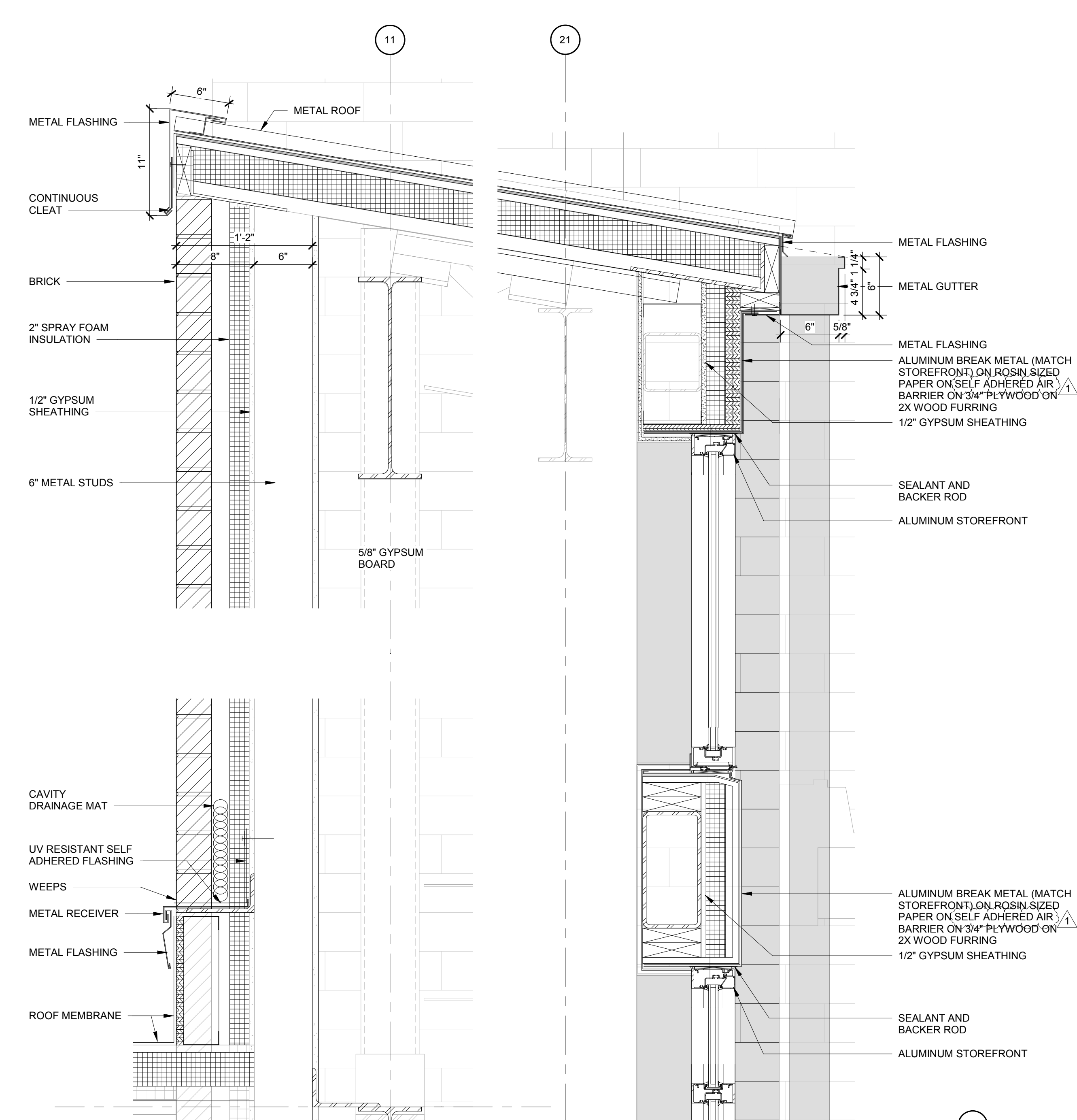
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 EXTERIOR PLAN DETAILS

SHEET NUMBER:
A-514



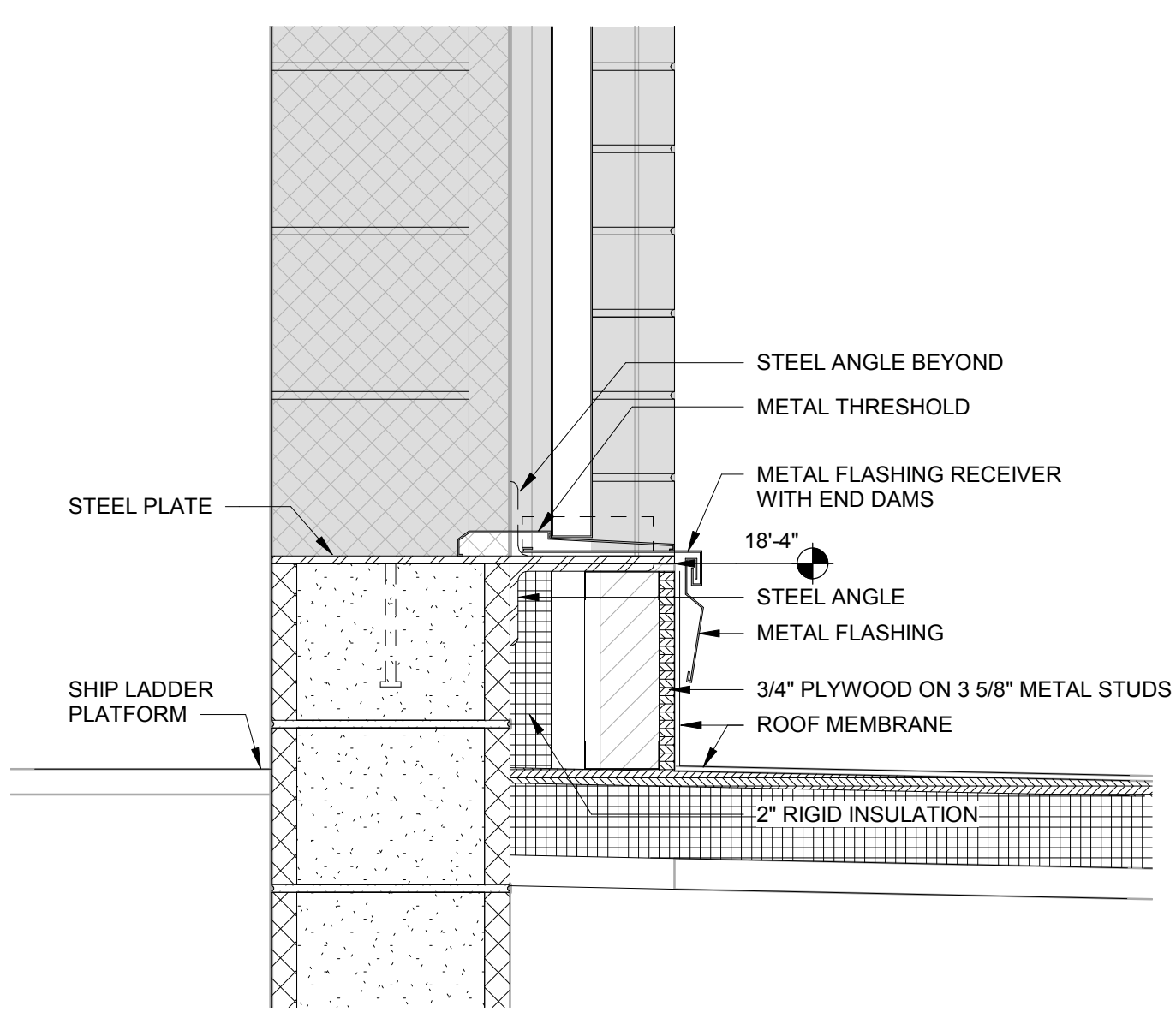
Detail 28
1 1/2" = 1'-0" M4

SECTION DETAIL AT LP METAL ROOF
1 1/2" = 1'-0" A30

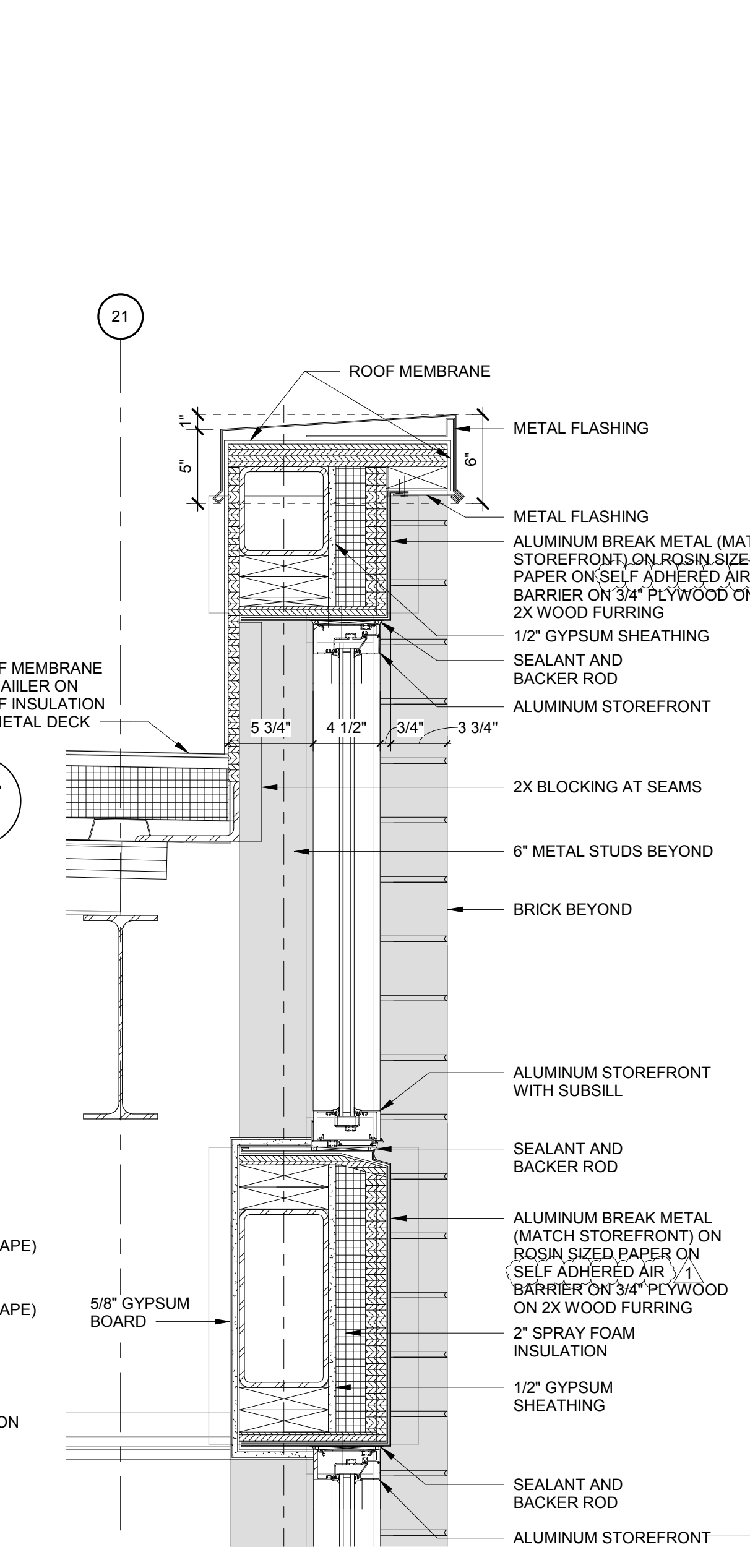


Detail 32
1 1/2" = 1'-0" E15

Detail 31
1 1/2" = 1'-0" E13

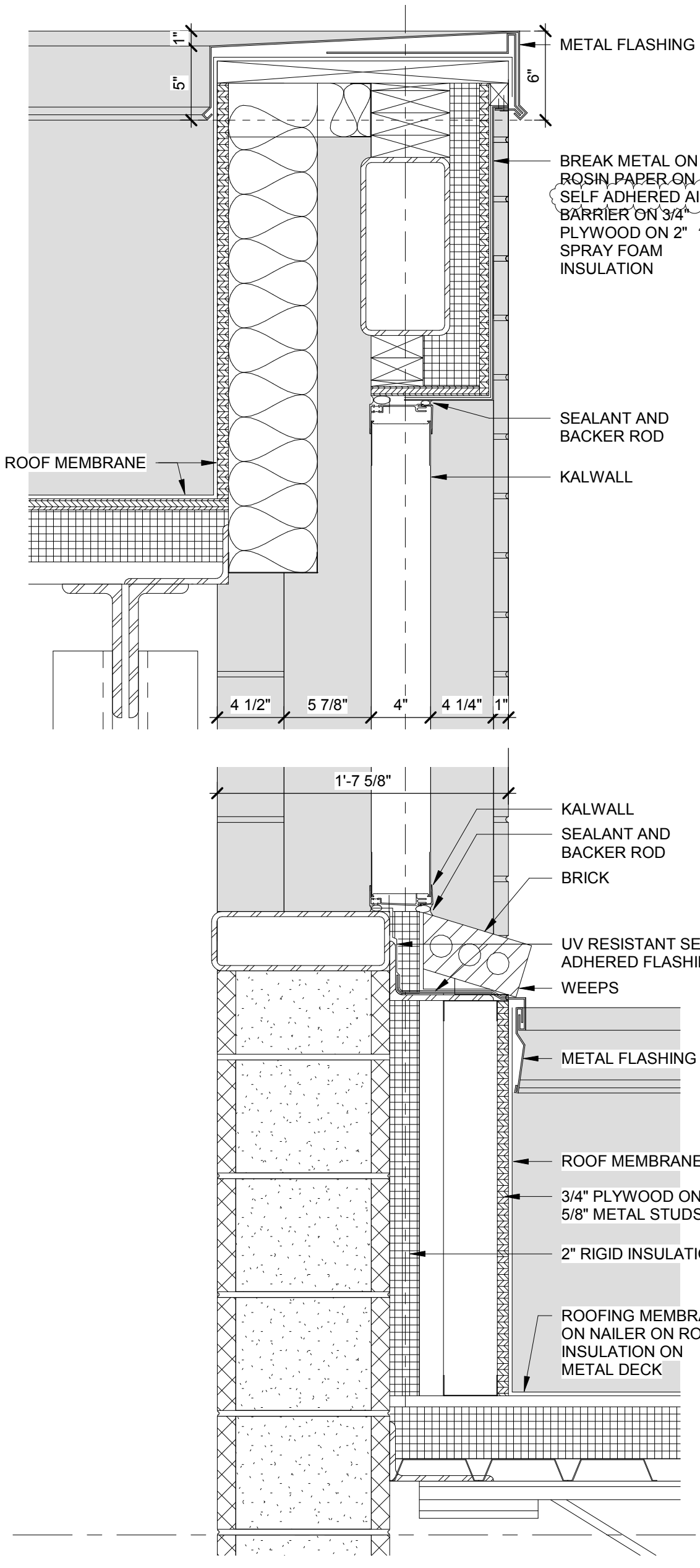


HM SILL AT ROOF ACCESS
1 1/2" = 1'-0" H7

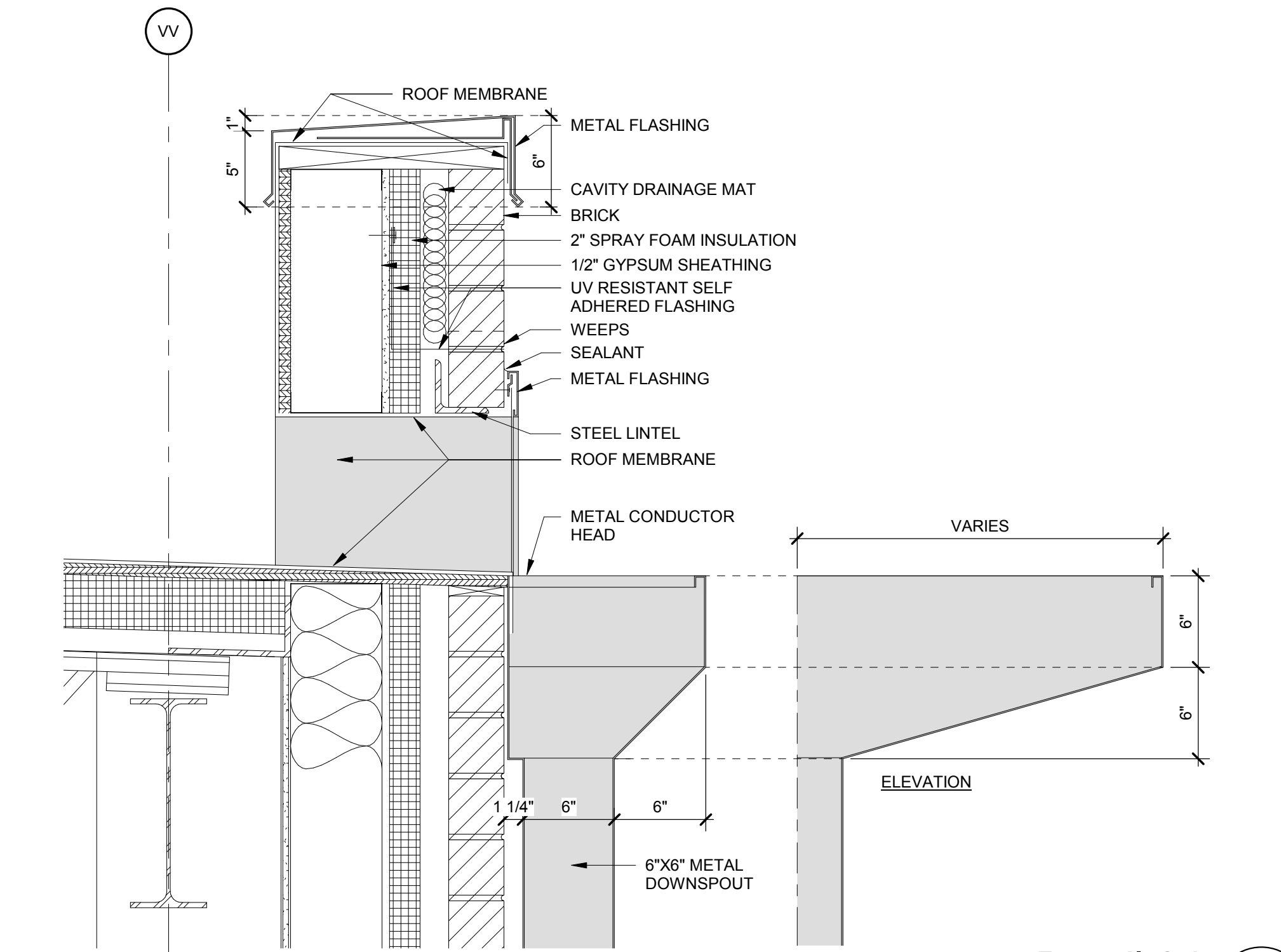


SECTION DETAIL D7
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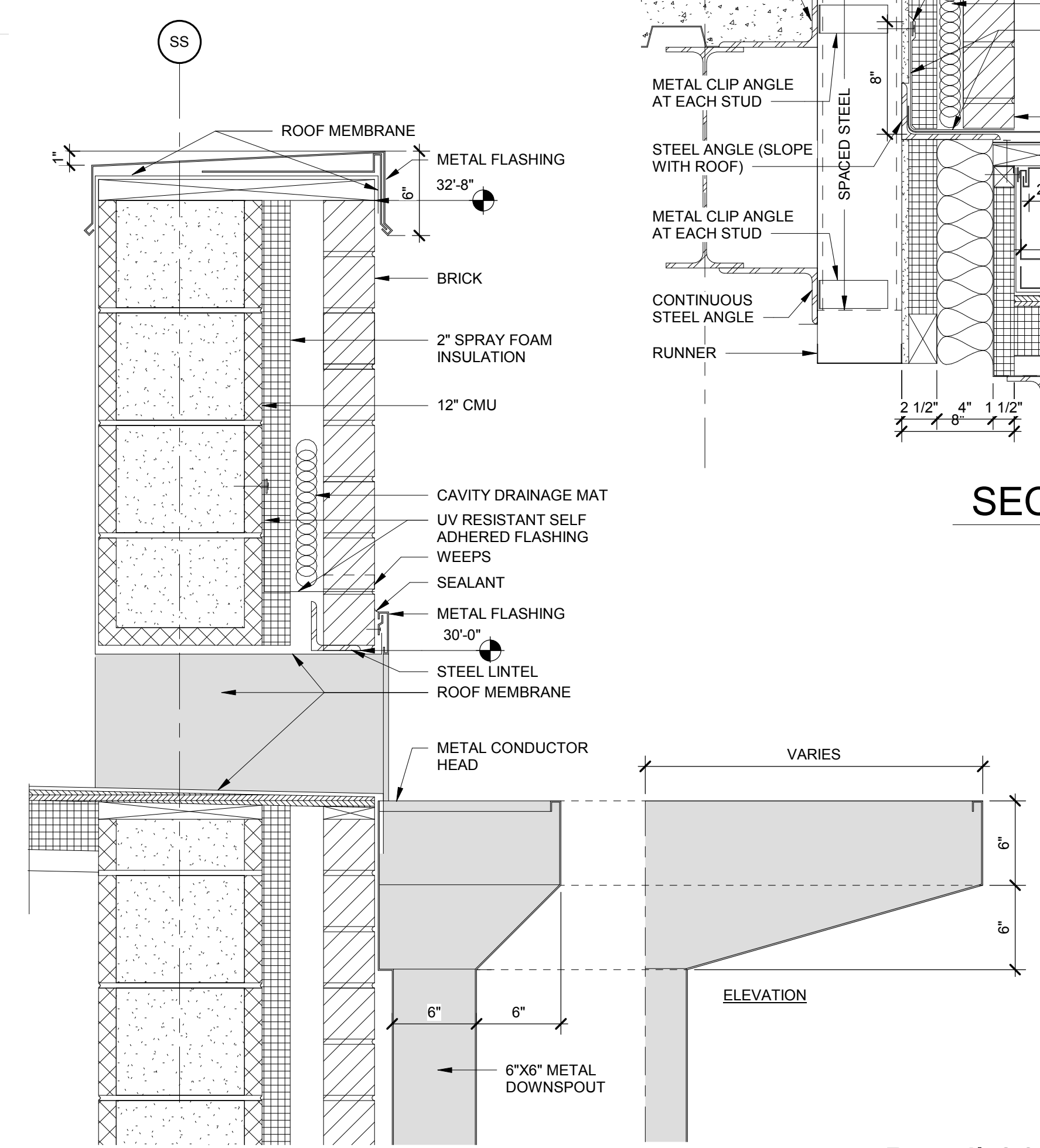
Detail 27
1 1/2" = 1'-0" D5



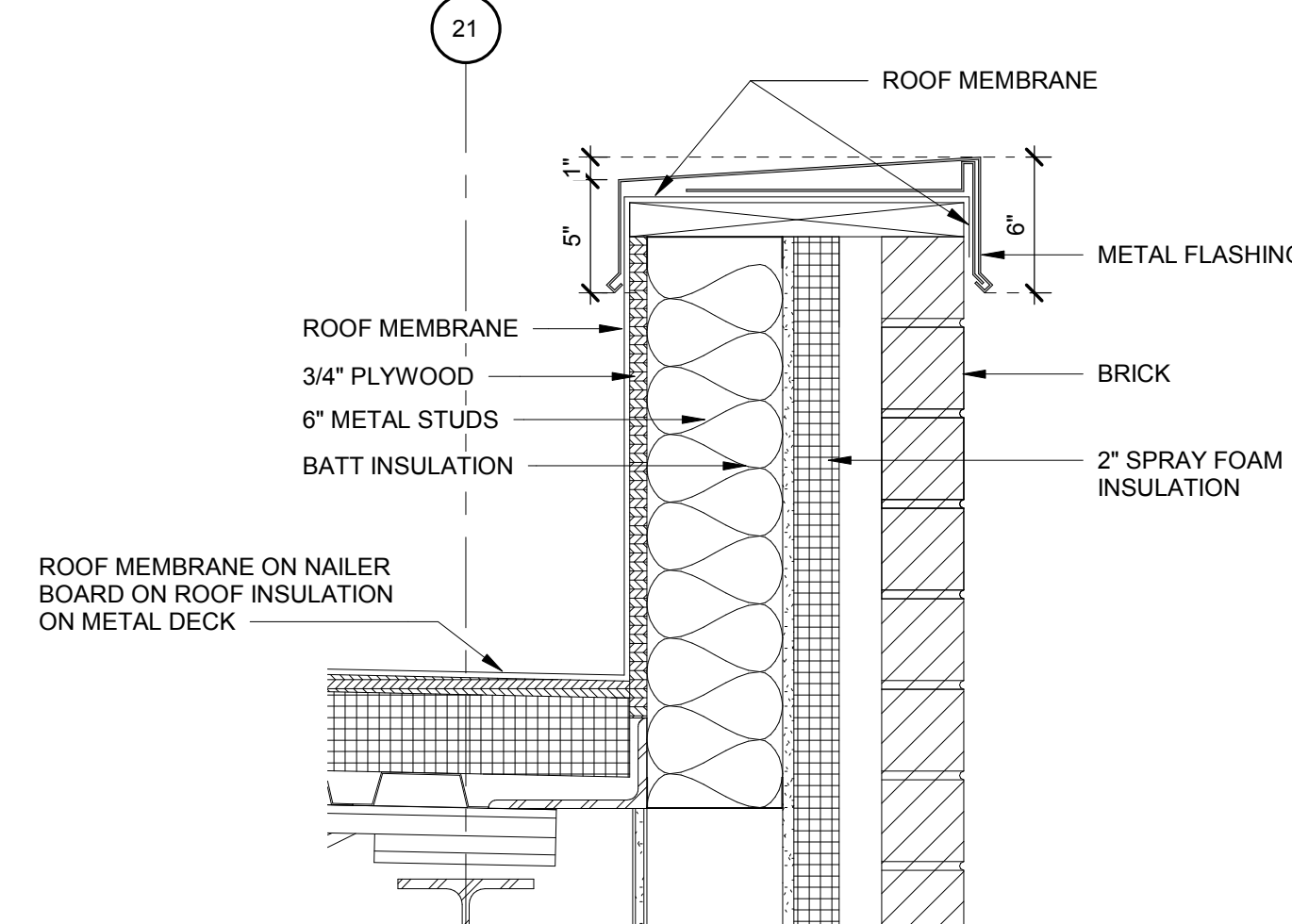
HEAD GYM CLEARSTORY
1 1/2" = 1'-0" D1



Detail 24
1 1/2" = 1'-0" A13



Detail 26
1 1/2" = 1'-0" A8



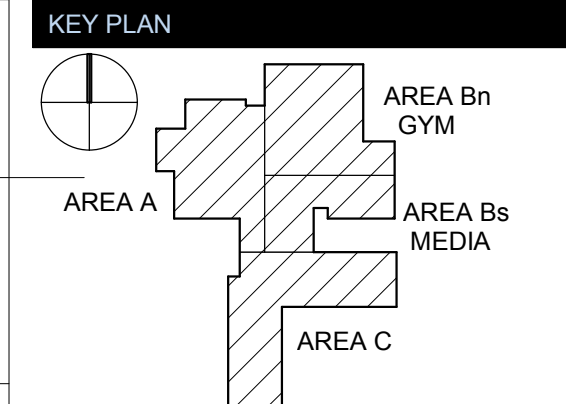
Detail 25
1 1/2" = 1'-0" A5

SECTION DETAIL BLOCK PARAPET
1 1/2" = 1'-0" A1



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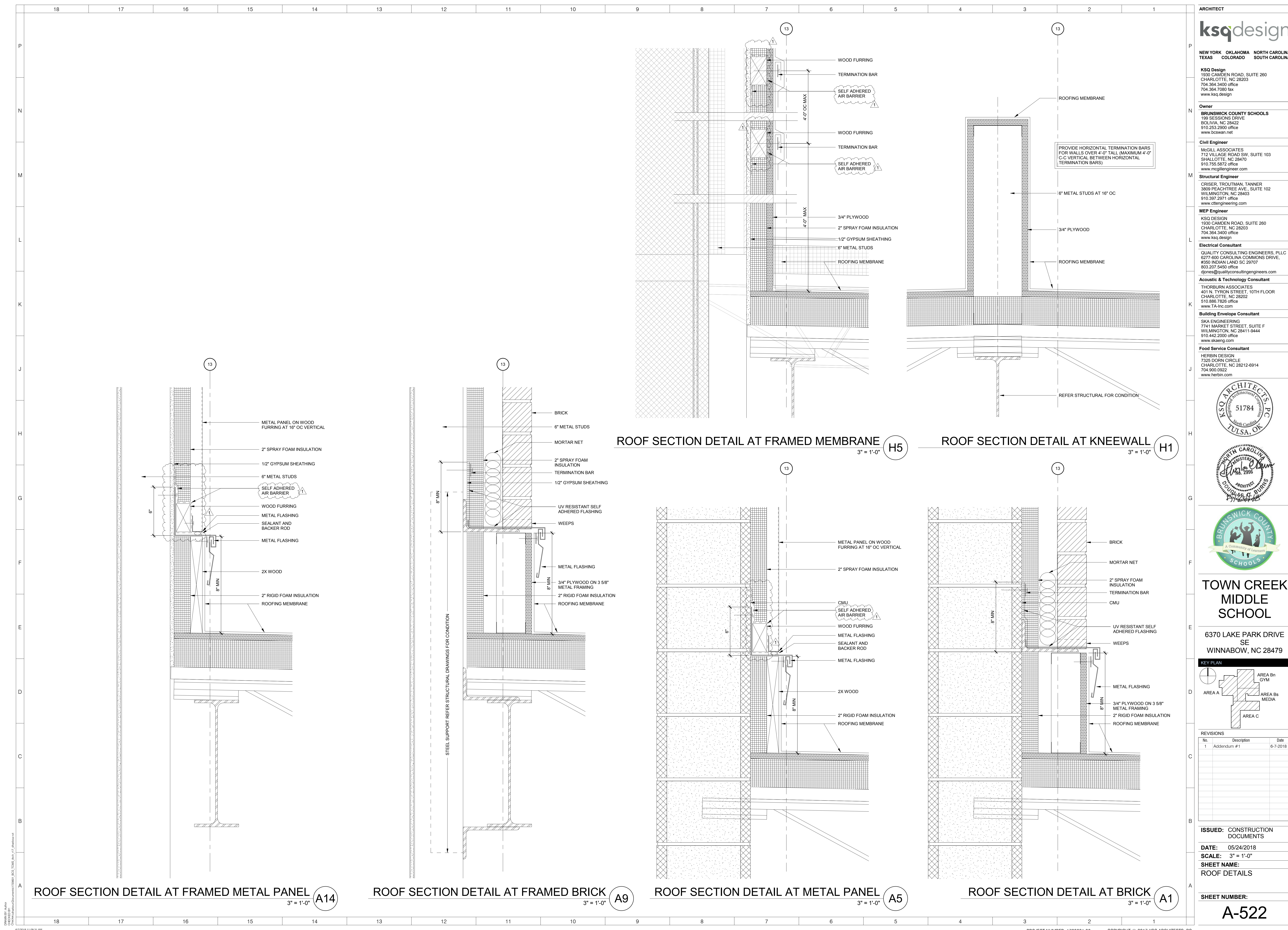


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No.	Description	Date
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SHEET NAME: ROOF DETAILS

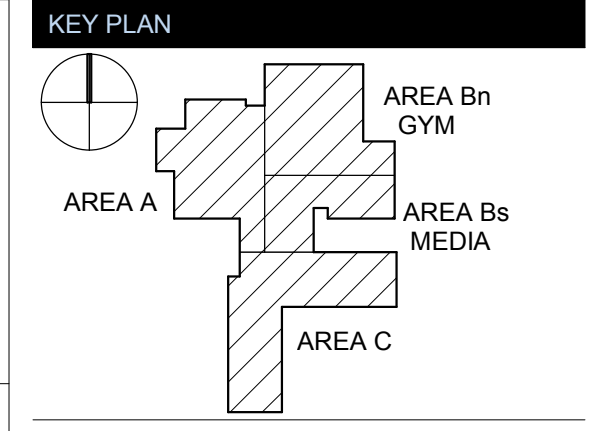
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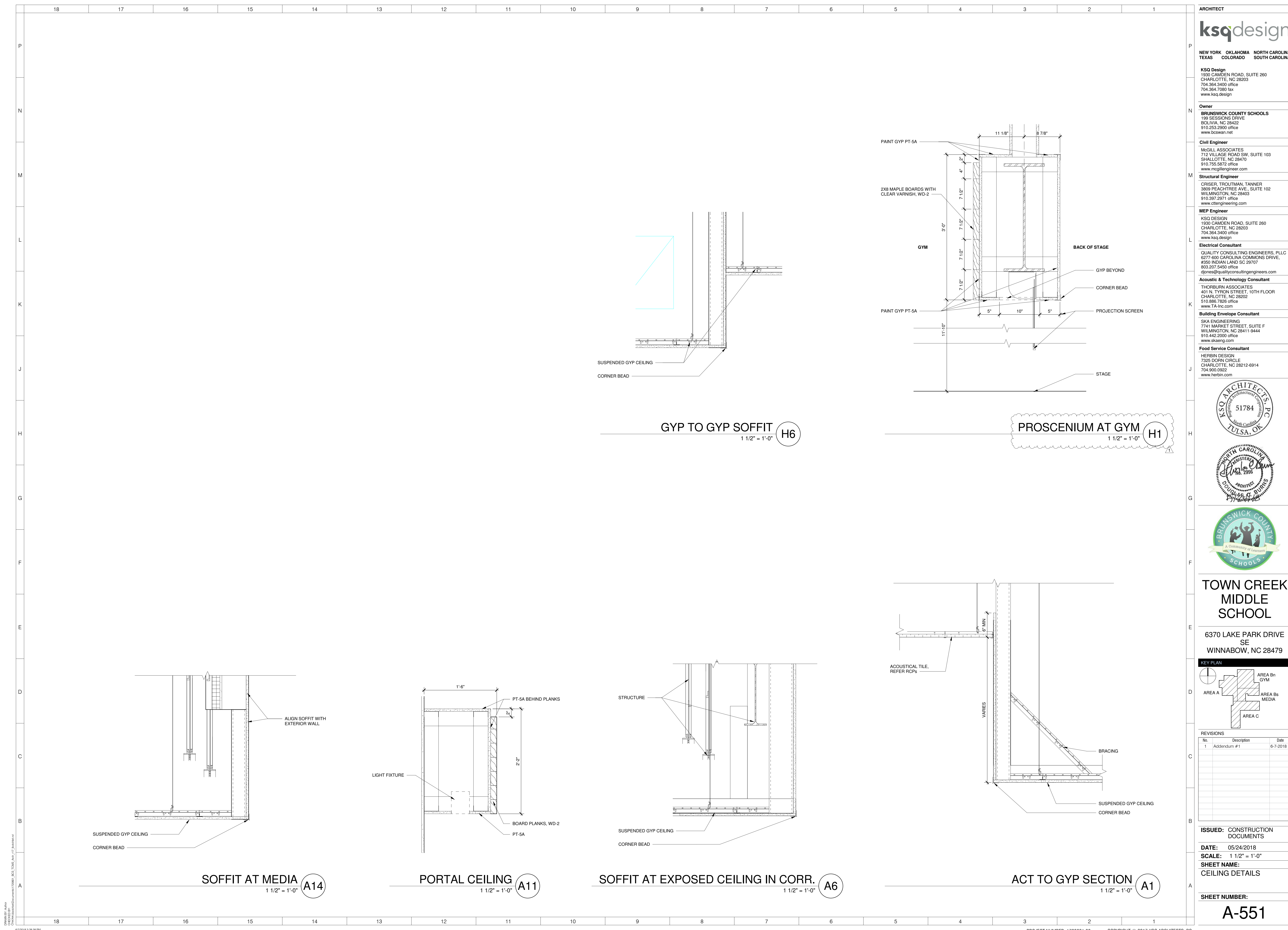


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SCALE: 3" = 1'-0"
SHEET NAME: ROOF DETAILS

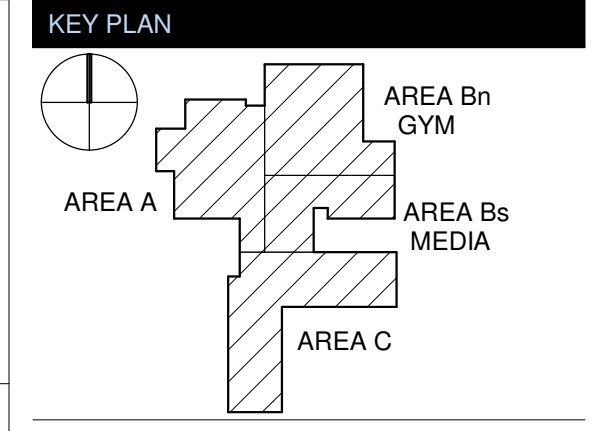
SHEET NUMBER:
A-522



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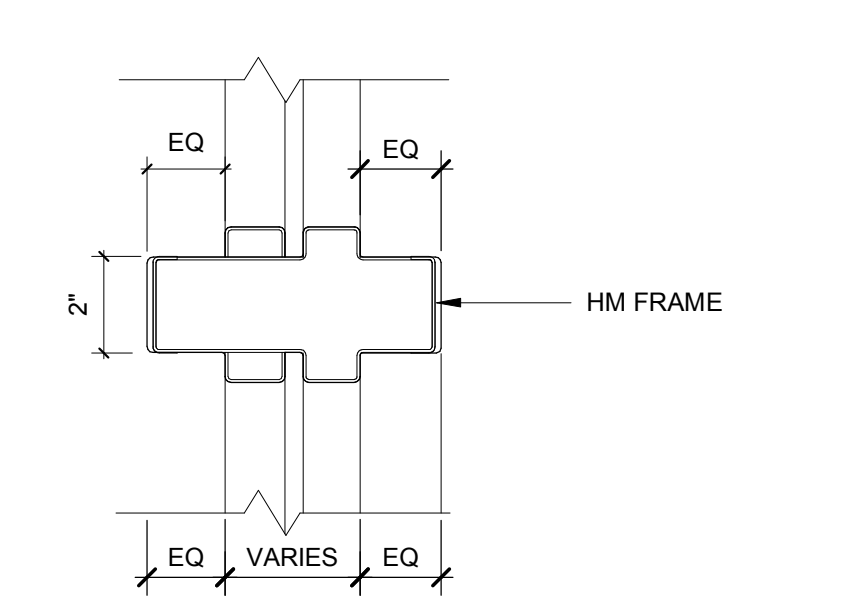
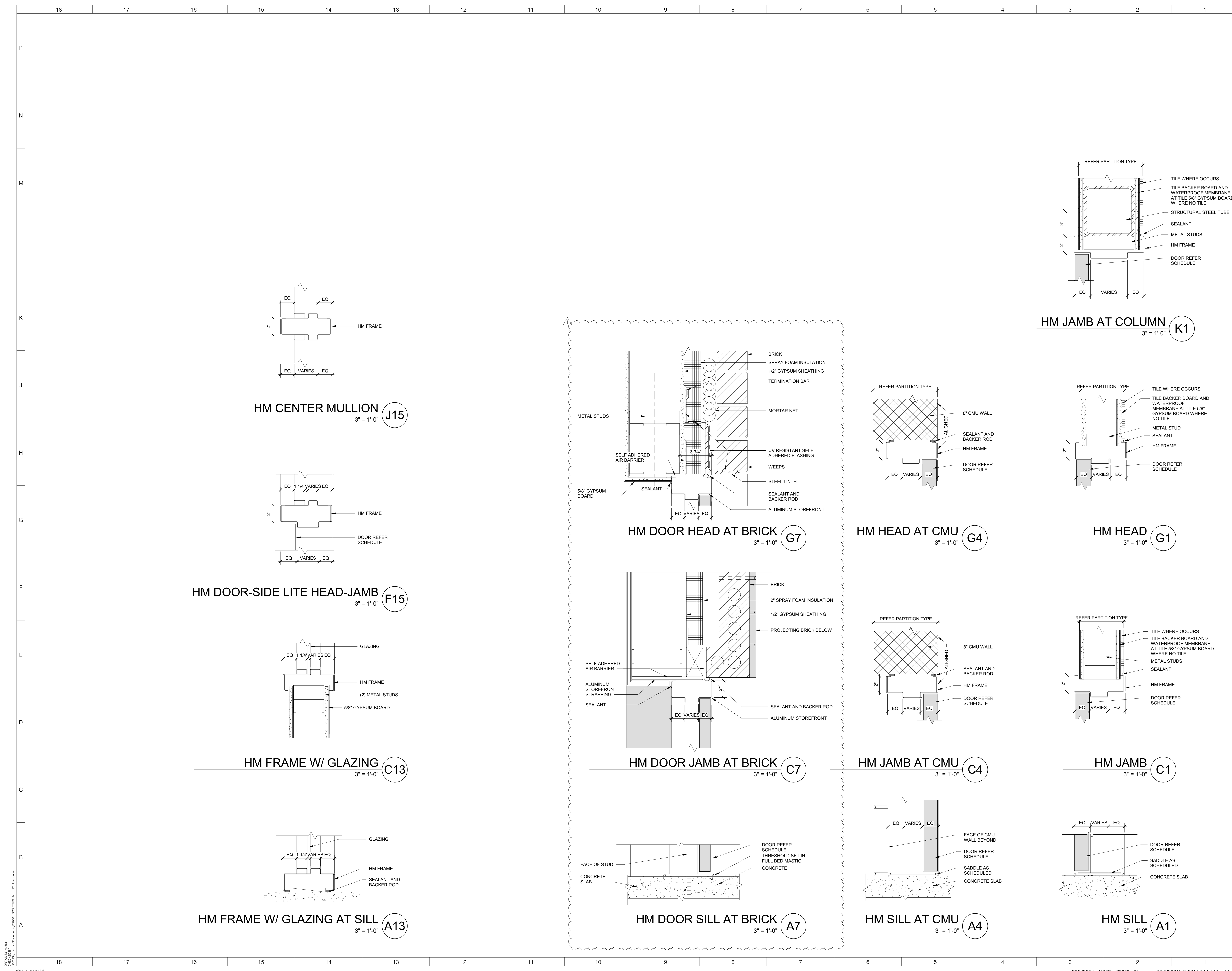
REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

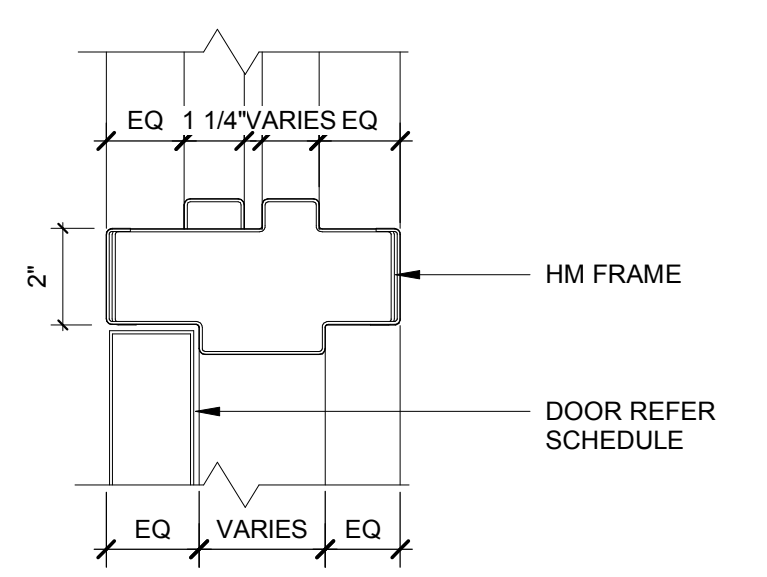
ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
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SHEET NUMBER:

A-551

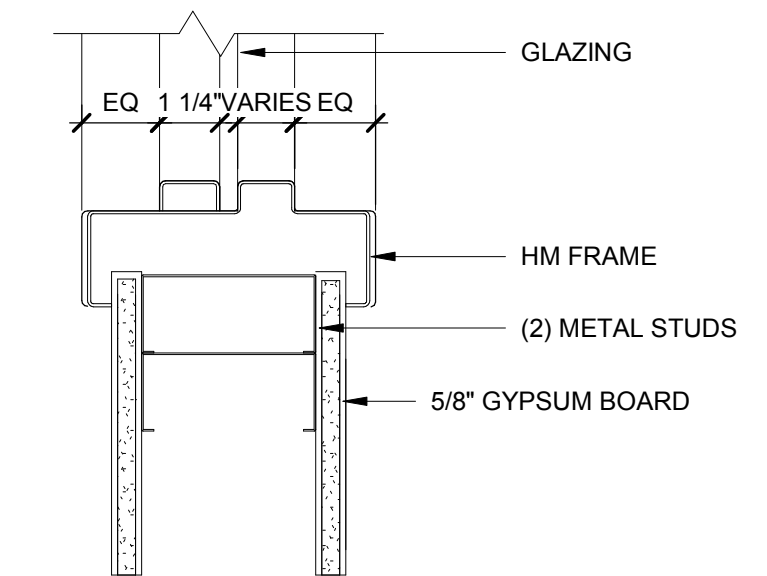
DOOR NO	ROOM NAME	Sheet	PAIR	TYPE	SIZE			DOOR			FRAME			DETAIL			EXT	FIRE RATING	PH	HARDWARE GROUP	COMMENTS	
					WIDTH	HEIGHT	THICKNESS	GLASS TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL						
1001A	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	YES	---	YES	01	AUTO DOOR OPERATOR		
1001B	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	YES	---	YES	02			
1001C	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	YES	---	YES	02			
1001D	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	A1/A-611	C4/A-631	YES	---	YES	02			
1001E	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	H1/A-611	C4/A-631	---	---	YES	03			
1001F	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	H1/A-611	C4/A-631	---	---	YES	04			
1001G	VESTIBULE	A-101Bn	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	H1/A-611	C4/A-631	---	---	YES	04			
1002A	TOILET	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	43			
1100C	COMMONS CORRIDOR	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	47			
1101	PARENT CENTER	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1102A	RECEPTION	A-101A	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	C15/H15/A-611	C4/A-631	---	---	06				
1102B	RECEPTION	A-101A	---	SF	3'-0"	8'-6"	---	ALUM	CLR	A	ALUM	CLR	G4/A-631	C15/A-611	C4/A-631	---	---	05				
1102C	CORRIDOR	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	55			
1103A	WORKROOM	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	56			
1103B	WORKROOM	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	33			
1104	OFFICE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1105	SECURED RECORDS	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	22			
1106	OFFICE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1107	STORAGE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	49			
1108	ASSIST. PRINCIPAL	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1110	STORAGE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	49			
1112	PRINCIPAL OFFICE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1114	CONF. RM 1	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1115	STAFF	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	12			
1116	GUIDANCE	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1117	STAFF	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	12			
1118	NURSE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	12			
1118B	TOILET / SHOWER	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	22			
1119	BOOK STORAGE	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1120	IN-SCHOOL SUSPENSION	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1121	RESOURCE OFFICER	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1122	IT M/D	A-101A	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	53			
1201A	GYM	A-101Bn	---	NL	6'-0"	8'-6"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	YES	45 MIN	YES	47	WIRE GLASS IN GLAZING	
1201B	GYM	A-101Bn	---	NL	6'-0"	8'-6"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	YES	45 MIN	YES	47	WIRE GLASS IN GLAZING	
1201C	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	10	PAINT TO MATCH BRICK TYPE 1		
1201D	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	41	PAINT TO MATCH BRICK TYPE 1		
1201E	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	41	PAINT TO MATCH BRICK TYPE 1		
1201F	GYM	A-101Bn	---	NO	6'-0"	8'-6"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	YES	YES	41	PAINT TO MATCH BRICK TYPE 1		
1202	SNACK BAR	A-101Bn	---	FL	8'-0"	6'-2"	---	STEEL	---	---	---	A2/A-612	A1/A-612	A2/A-612	---	1 HR	---	---	---	ROLLING COUNTER FIRE DOOR		
1202A	SNACK BAR	A-101Bn	---	FD	8'-0"	6'-2"	---	---	---	---	A2/A-612	A1/A-612	A2/A-612	---	1 HR	---	---	---	---	ROLLING COUNTER FIRE DOOR		
1203A	STORAGE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	---	---	18			
1203B	STORAGE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G4/A-611	C4/A-611	A4/A-611	---	---	49			
1204A	VESTIBULE	A-101Bn	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	45 MIN	---	---	WIRE GLASS IN GLAZING
1204B	VESTIBULE	A-101Bn	---	NL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1205	VESTIBULE	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	48			
1206A	GIRLS DRESSING ROOM	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1206B	TOILET	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	38			
1207	OFFICE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1208A	VESTIBULE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1208B	TOILET	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	39			
1209A	GYM	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1209B	GYM	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1209C	GYM	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1211	OFFICE	A-101Bn	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	18			
1212A	ROOF ACCESS	A-101Bn	---	FL	2'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	51			
1212B	ROOF ACCESS	A-101Bn	---	FL	3'-0"	7'-2"	1'-3/4"	---	SCW	WDST-1	B	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	52			
1213	VESTIBULE	A-101Bn	---	LV	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	48			
1302A	DINING	A-101A	---	NL	6'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	45 MIN	---	---	WIRE GLASS IN GLAZING
1302B	DINING	A-101A	---	NL	6'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	45 MIN	---	---	WIRE GLASS IN GLAZING
1302C	DINING	A-101A	---	NL	6'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	45 MIN	---	---	WIRE GLASS IN GLAZING
1303	LOADING AREA	A-101A	---	FL	4'-0"	7'-0"	1'-3/4"	---	HM	PT	A	HM	PT	G4/A-611	C4/A-611	A4/A-611	---	---	30			
1308A	KITCHEN	A-101A	---	FL	4'-0"	8'-4"	1'-3/4"	---	HM	PT	A	HM	PT	G7/A-611	J1/A-613	A7/A-611	YES	---	37			
1308B	KITCHEN	A-101A	---	FL	4'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	61			
1308C	KITCHEN	A-101A	---	FL	3'-0"	7'-0"	1'-3/4"	---	SCW	WDST-1	A	HM	PT-2	G1/A-611	C1/A-611	A1/A-611	---	---	61			
1309	OFFICE	A-101A	---	FL	3'-0"	7'-0"</																



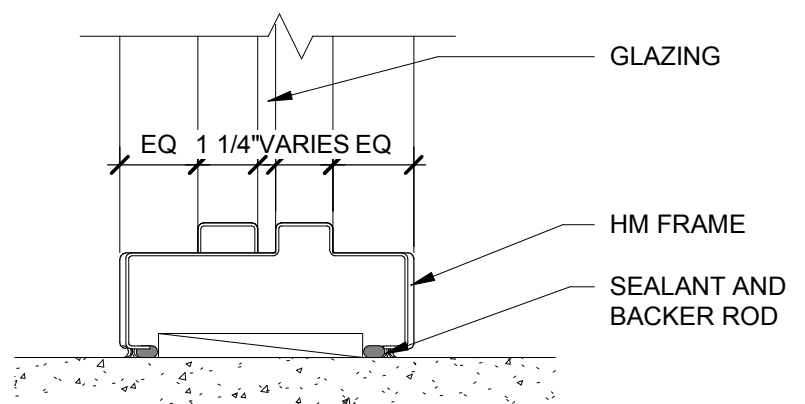
HM CENTER MULLION
3" = 1'-0" J15



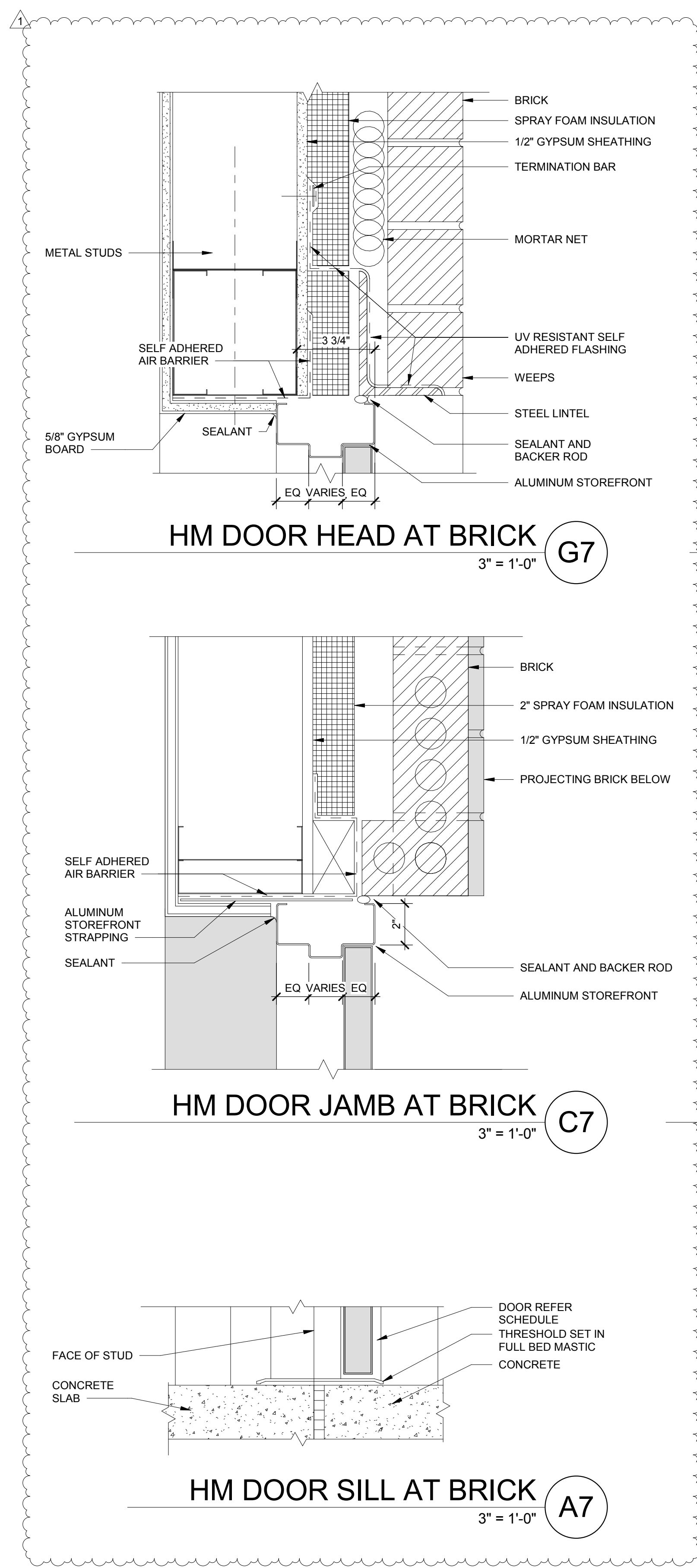
HM DOOR-SIDE LITE HEAD-JAMB
3" = 1'-0" F15



HM FRAME W/ GLAZING
3" = 1'-0" C13



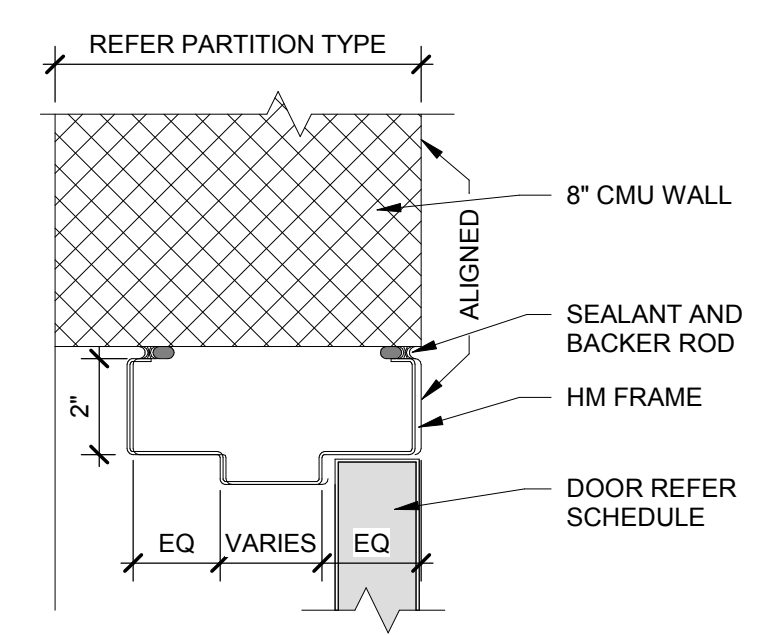
HM FRAME W/ GLAZING AT SILL
3" = 1'-0" A13



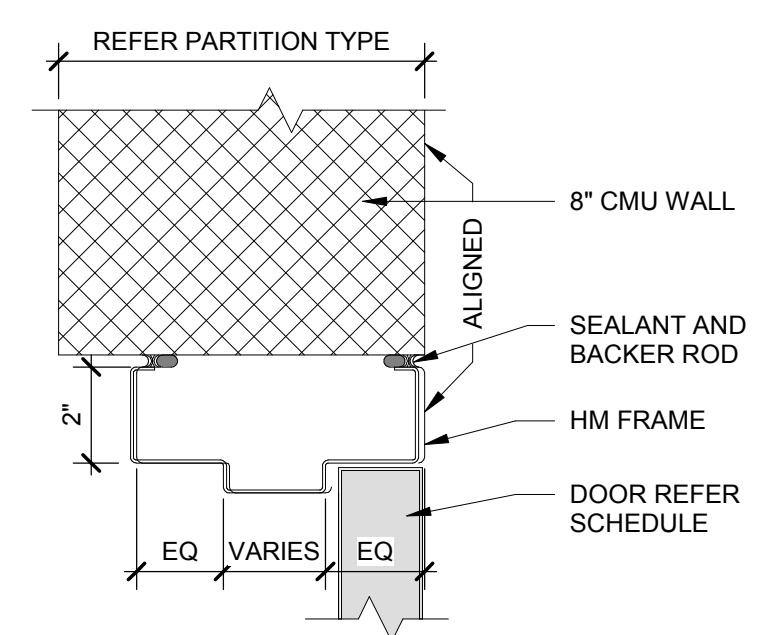
HM DOOR HEAD AT BRICK
3" = 1'-0" G7

HM DOOR JAMB AT BRICK
3" = 1'-0" C7

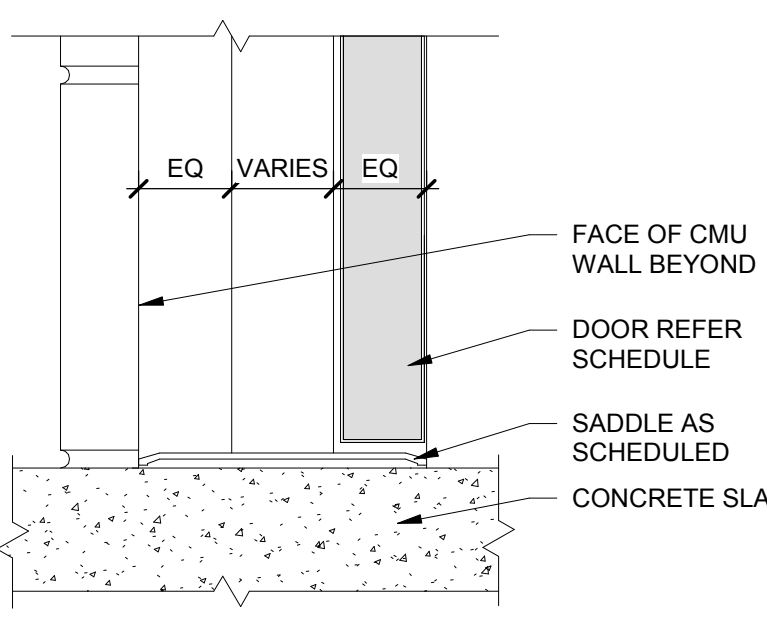
HM DOOR SILL AT BRICK
3" = 1'-0" A7



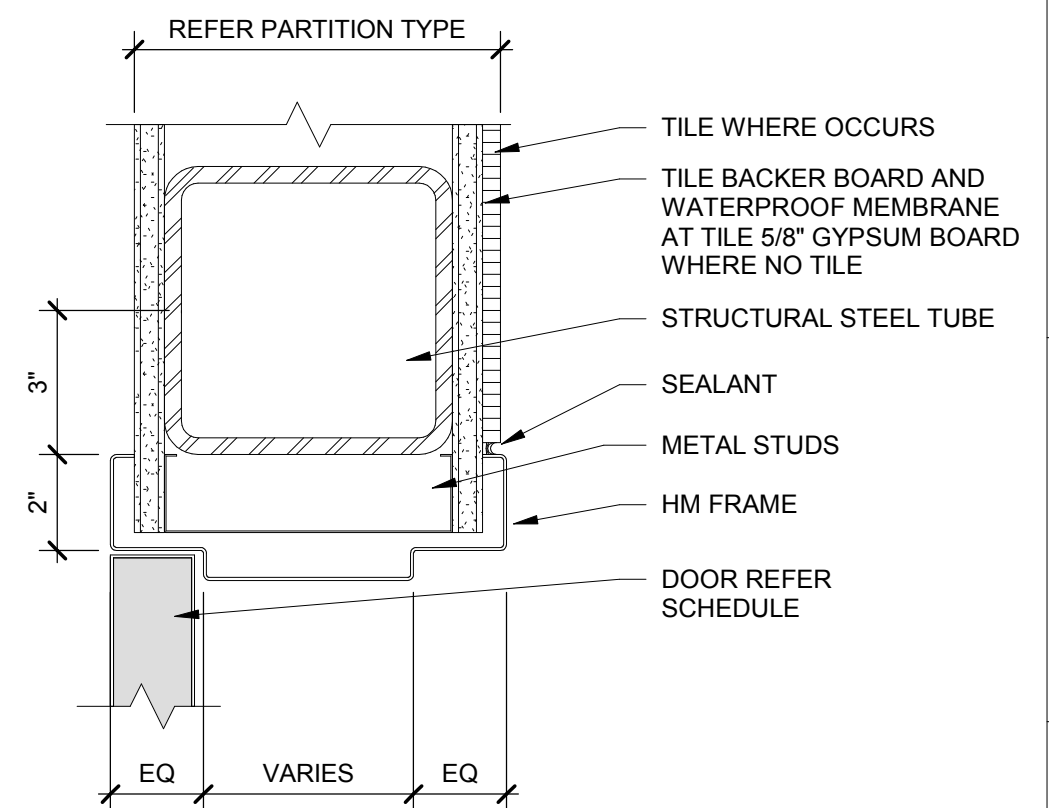
HM HEAD AT CMU
3" = 1'-0" G4



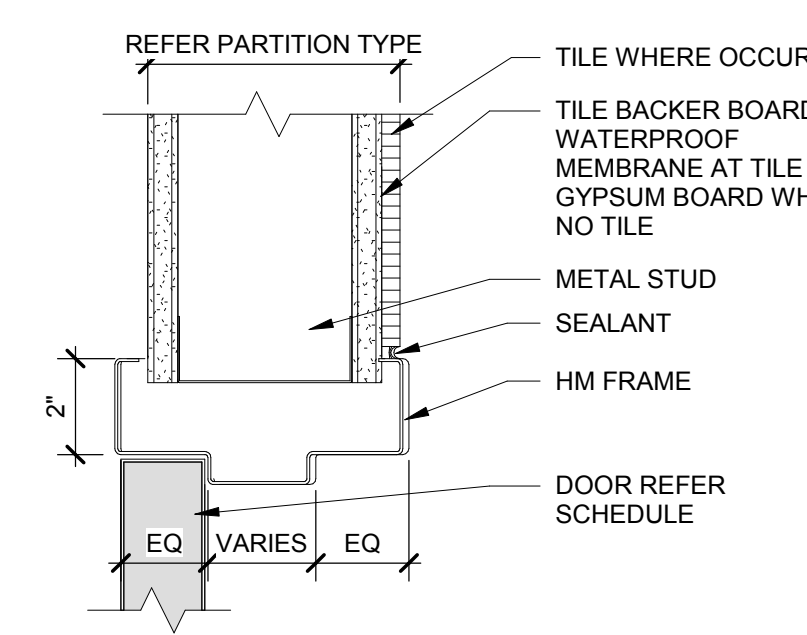
HM JAMB AT CMU
3" = 1'-0" C4



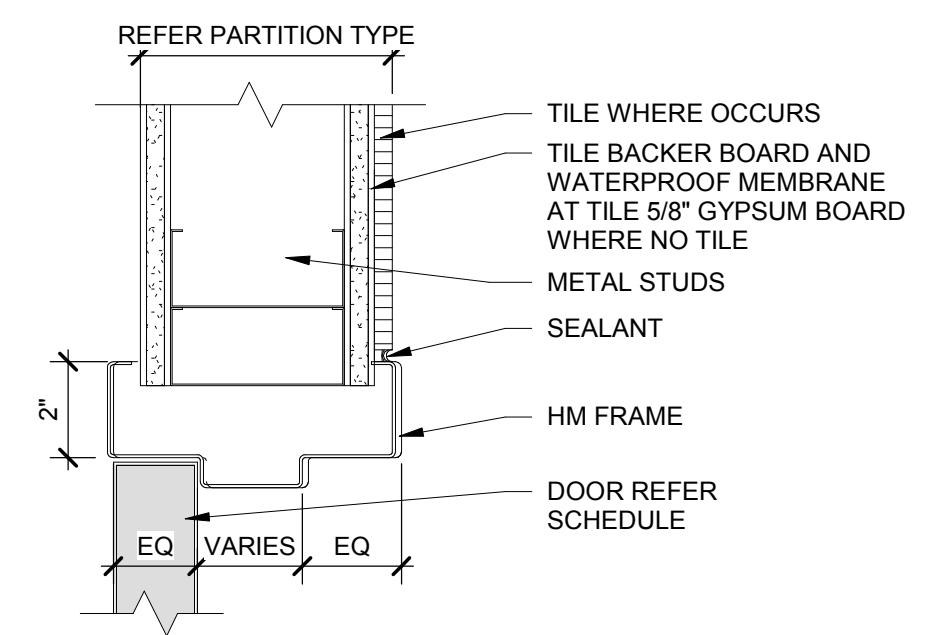
HM SILL AT CMU
3" = 1'-0" A4



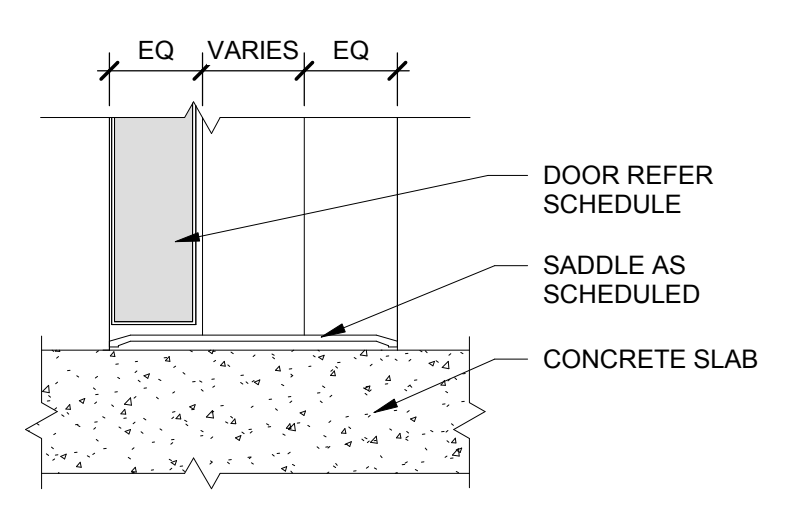
HM JAMB AT COLUMN
3" = 1'-0" K1



HM HEAD
3" = 1'-0" G1



HM JAMB
3" = 1'-0" C1



HM SILL
3" = 1'-0" A1

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 6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479

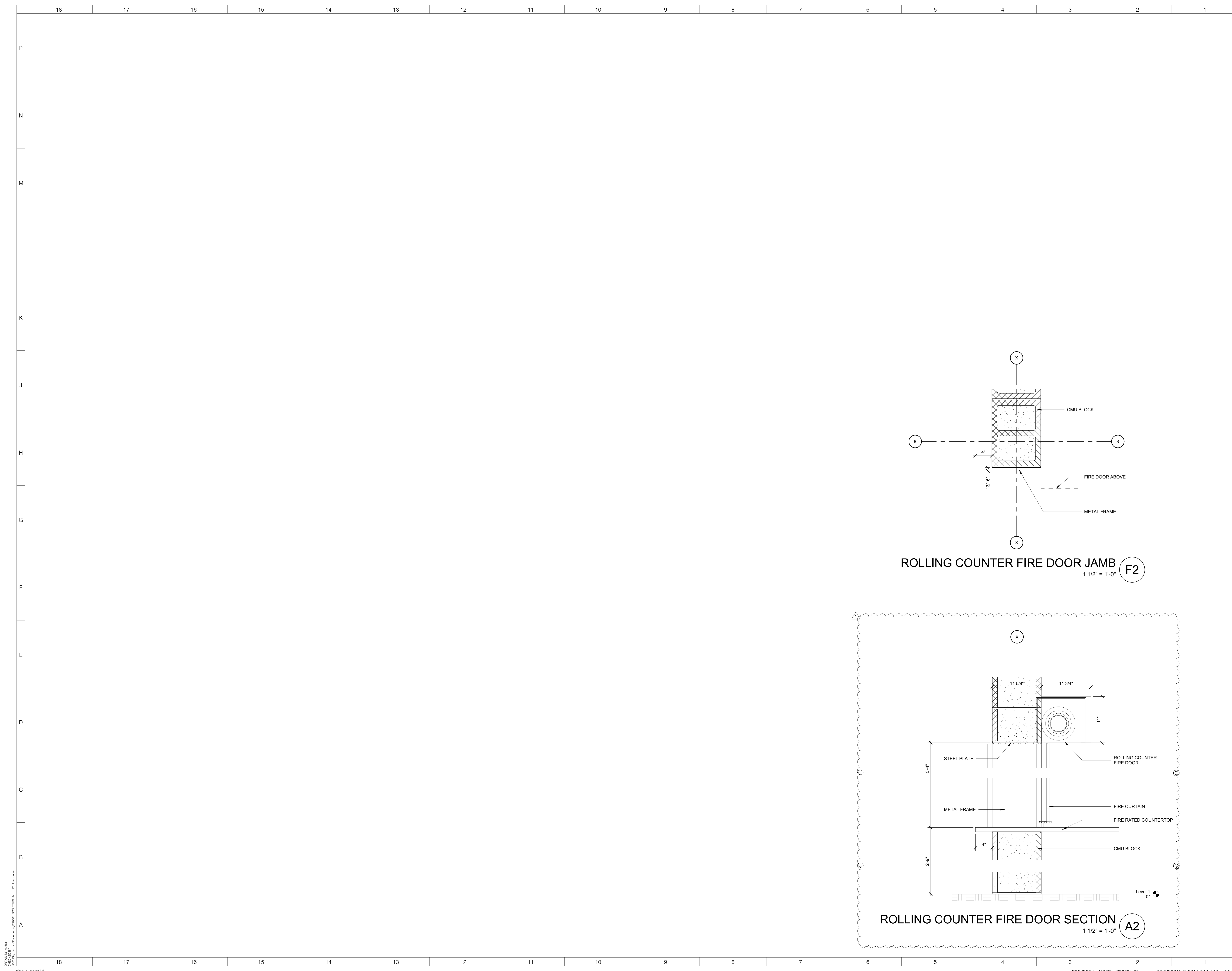
KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 3" = 1'-0"
SHEET NAME: DOOR DETAILS
SHEET NUMBER: A-611

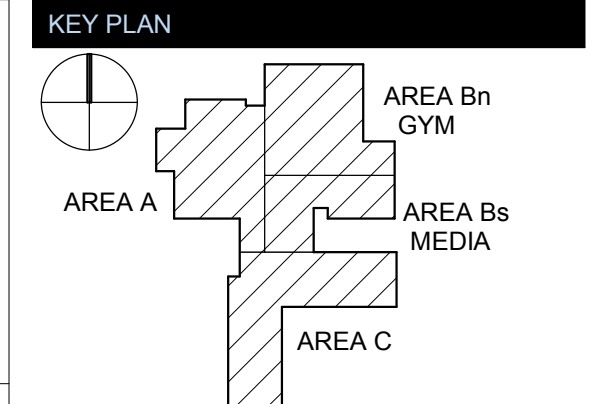
PROJECT NUMBER: 1720601.00 COPYRIGHT © 2017 KSQ ARCHITECTS, PC



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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

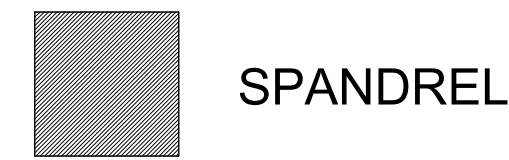
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DATE: 05/24/2018
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SHEET NAME: DOOR DETAILS
SHEET NUMBER:

A-612

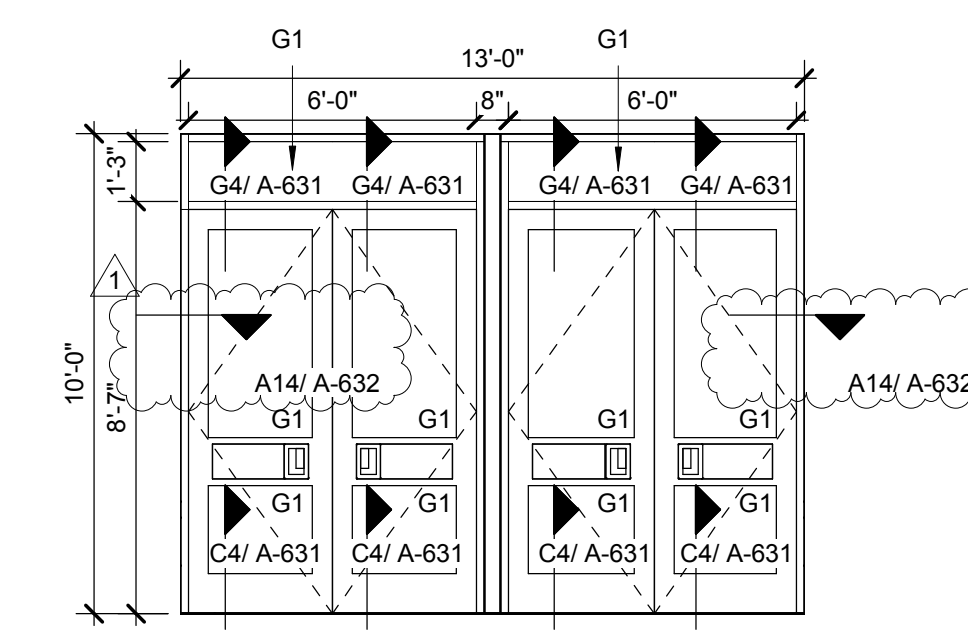
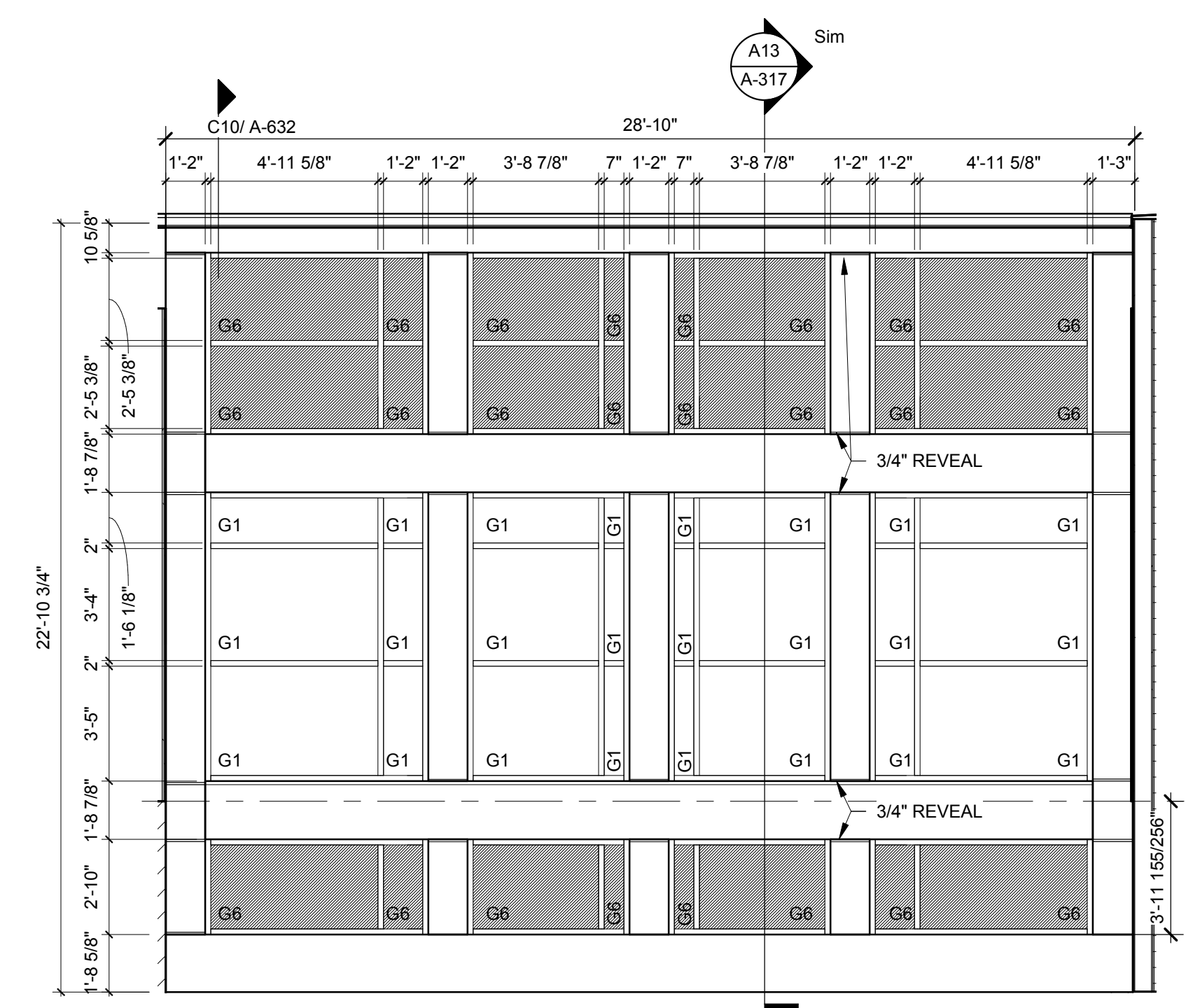
GLASS TYPES

- G1 - 1" INSULATING, BOTH PANES TEMPERED
- G2 - 1" INSULATING, LAMINATED
- G3 - 1/4" INSULATING, NON-TEMPERED
- G4 - 1/4" CLEAR TEMPERED GLASS
- G5 - 1/4" CLEAR SAFETY WIRE GLASS
- G6 - 1" INSULATING W/ SPANDREL, BOTH PANES TEMPERED

WINDOW LEGEND

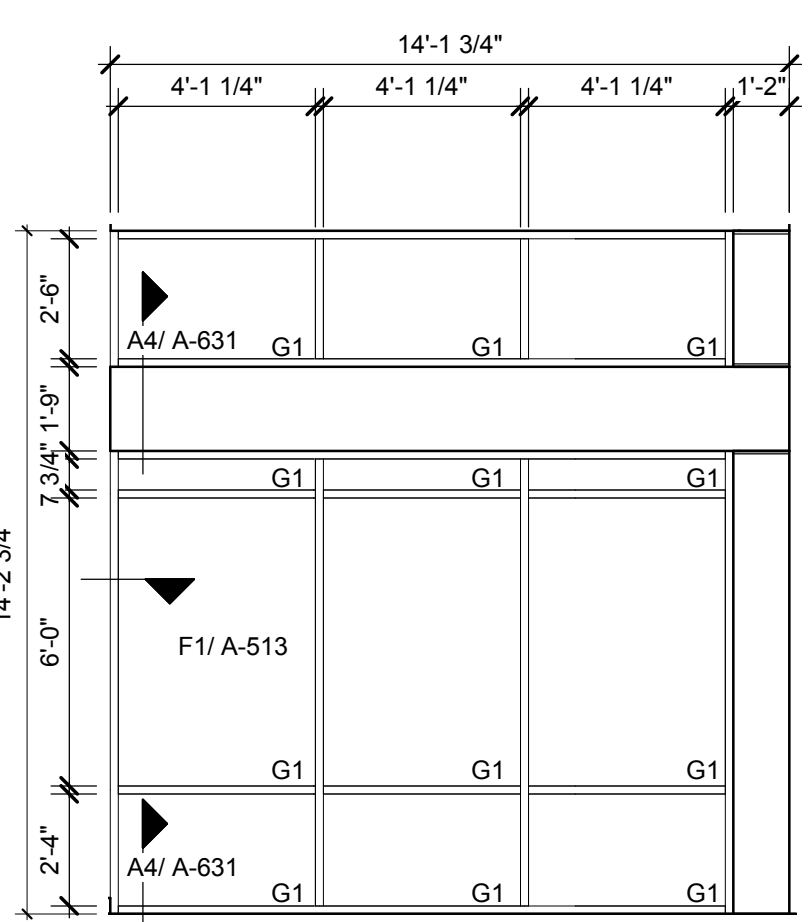


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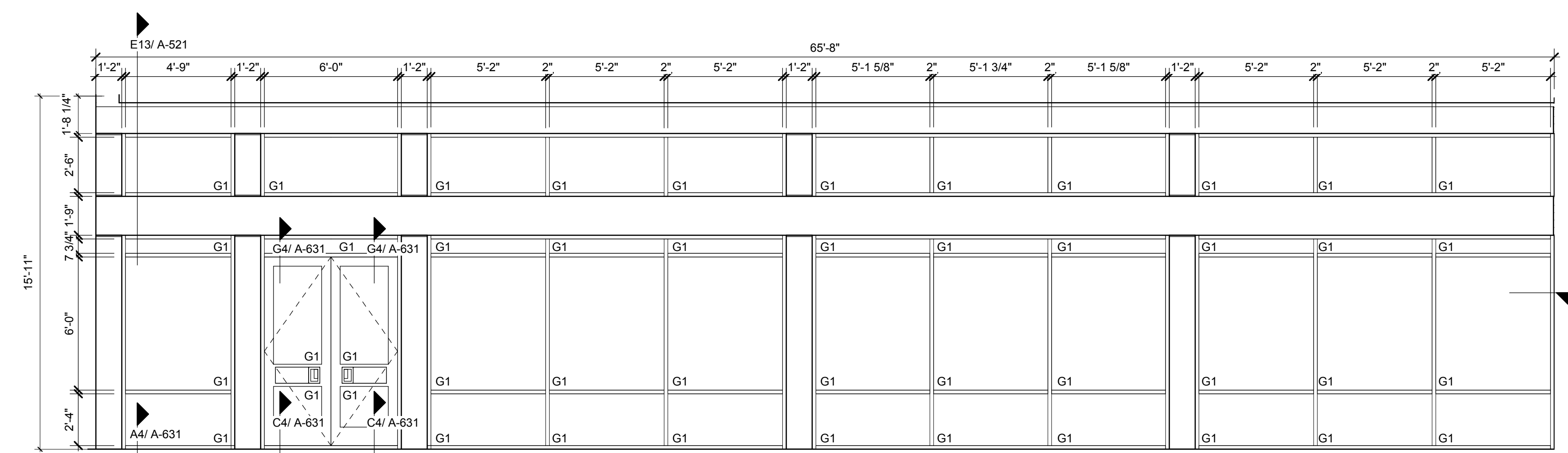


SF Y - RESOURCE ROOM
 1/4" = 1'-0" J4

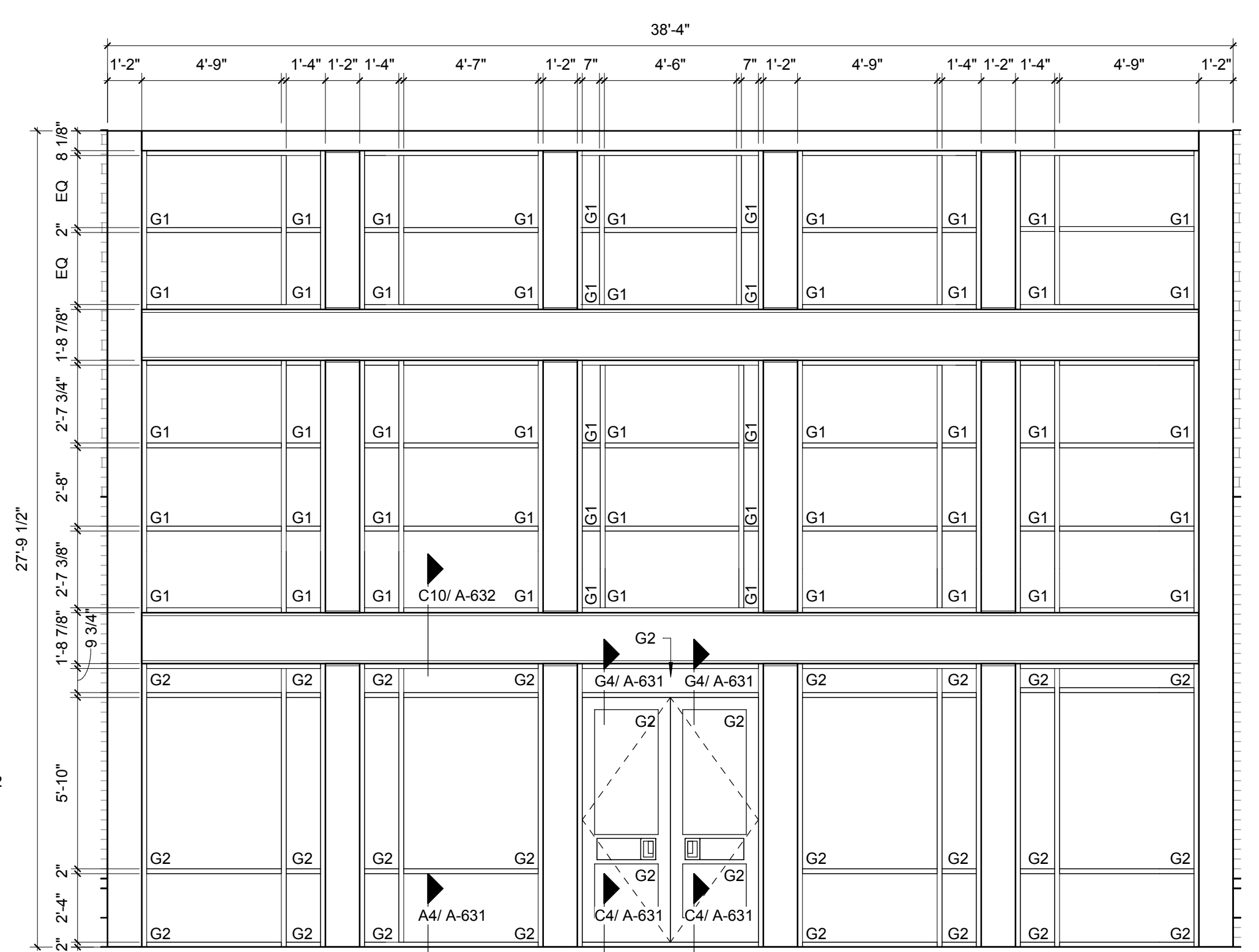
SF W COMMUNITY STAIR
 1/4" = 1'-0" J1



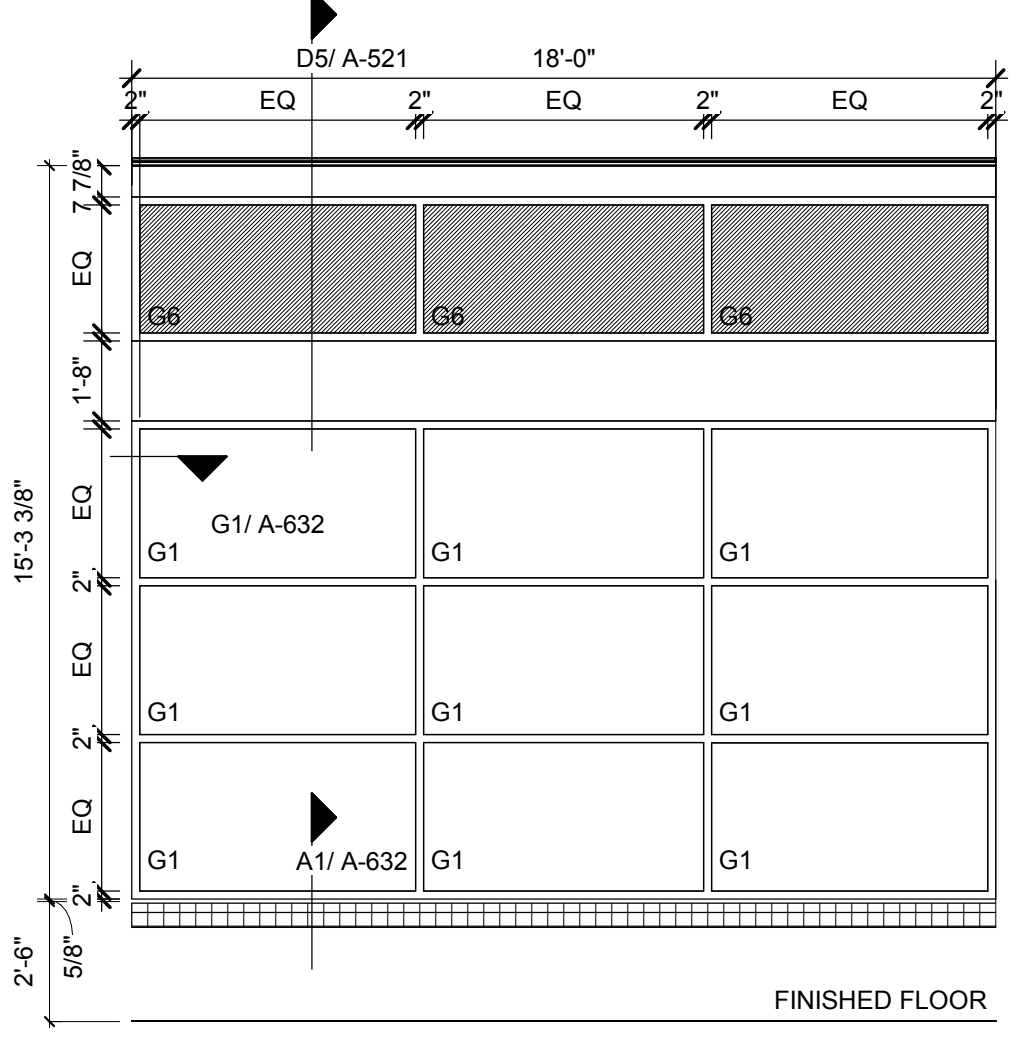
SF V - DINING, W. SIDE
 1/4" = 1'-0" D16



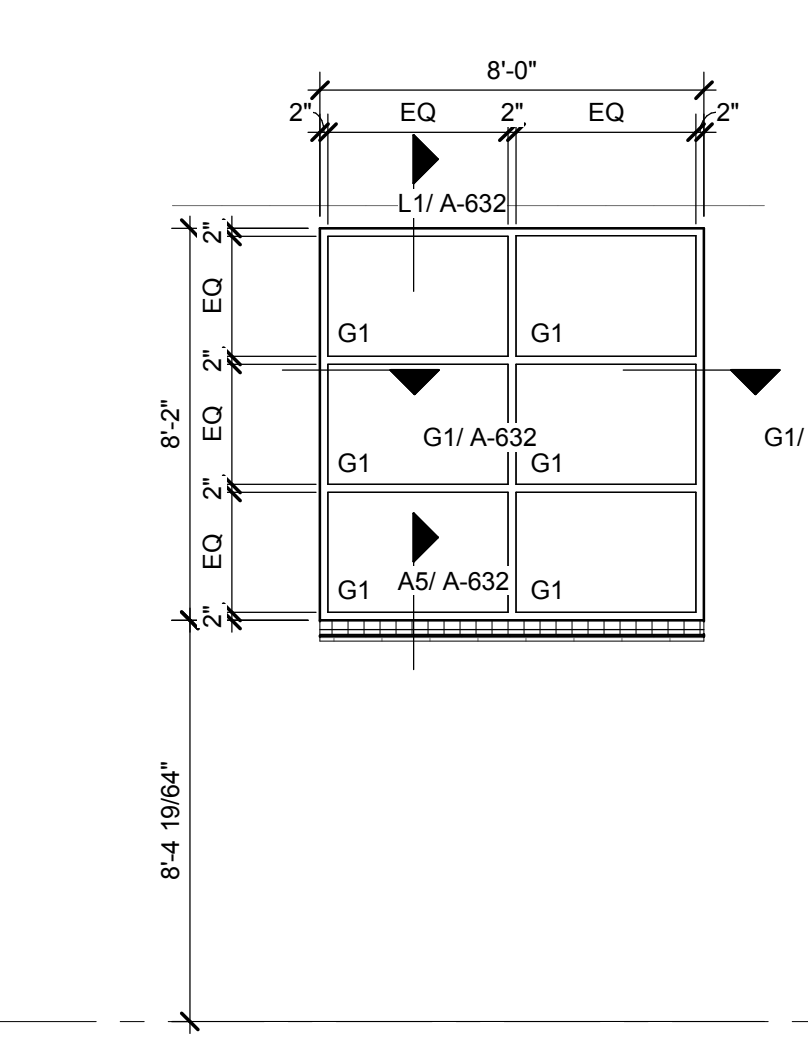
SF U - DINING, SOUTH SIDE
 1/4" = 1'-0" D7



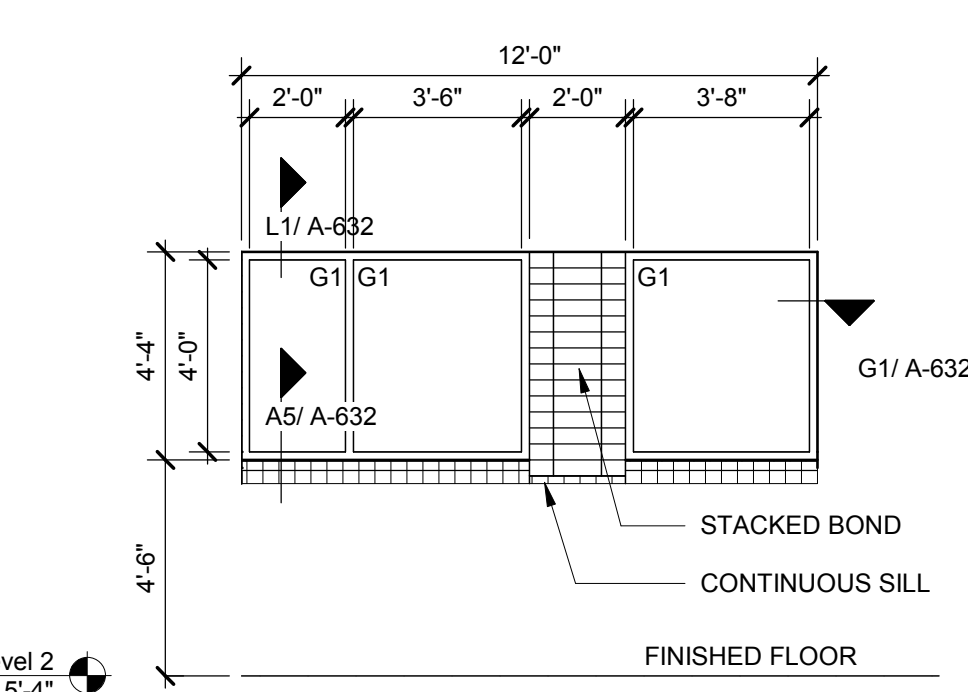
SF T - WEST ENTRY
 1/4" = 1'-0" D1



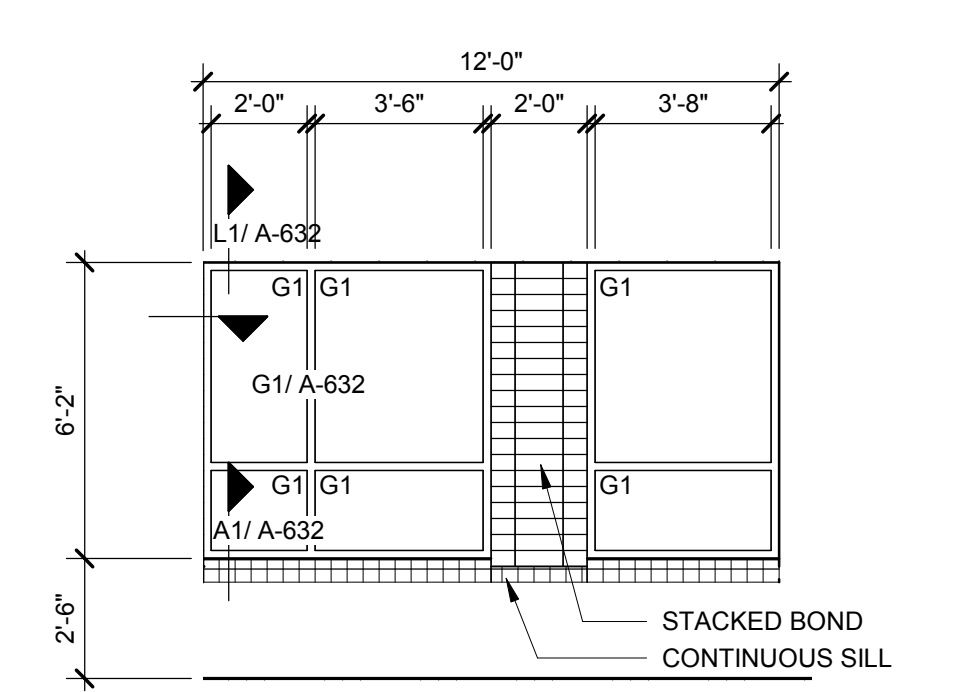
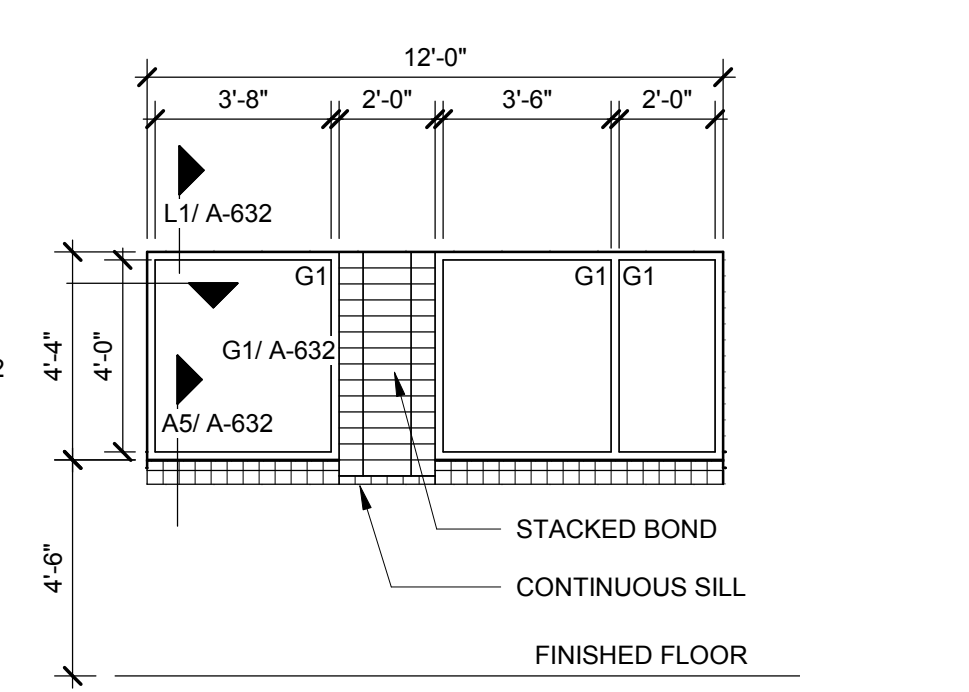
SF S - MUSIC, ART
 1/4" = 1'-0" A16



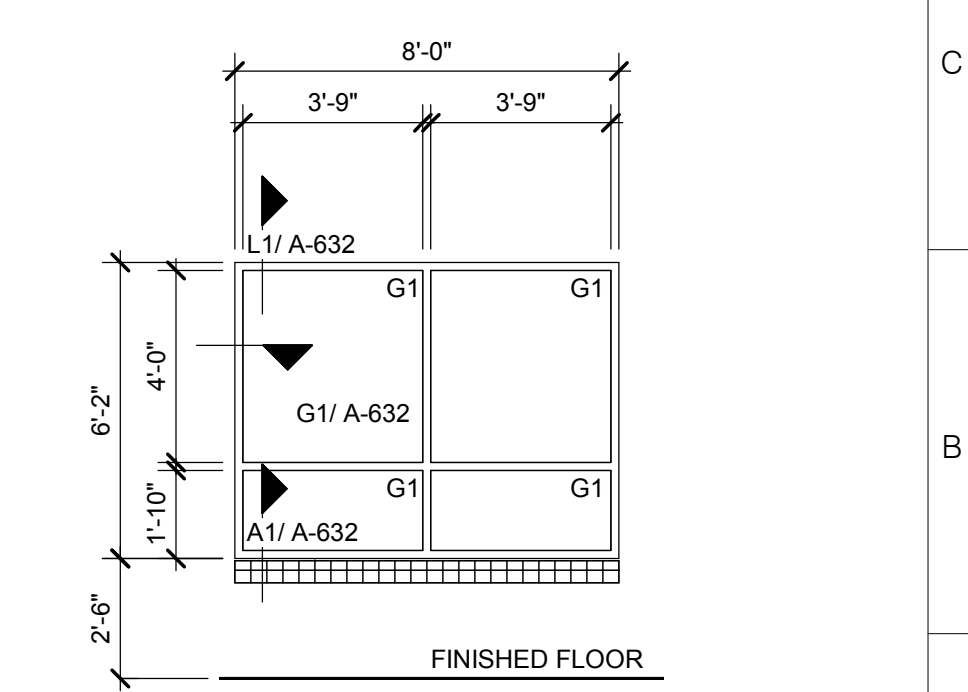
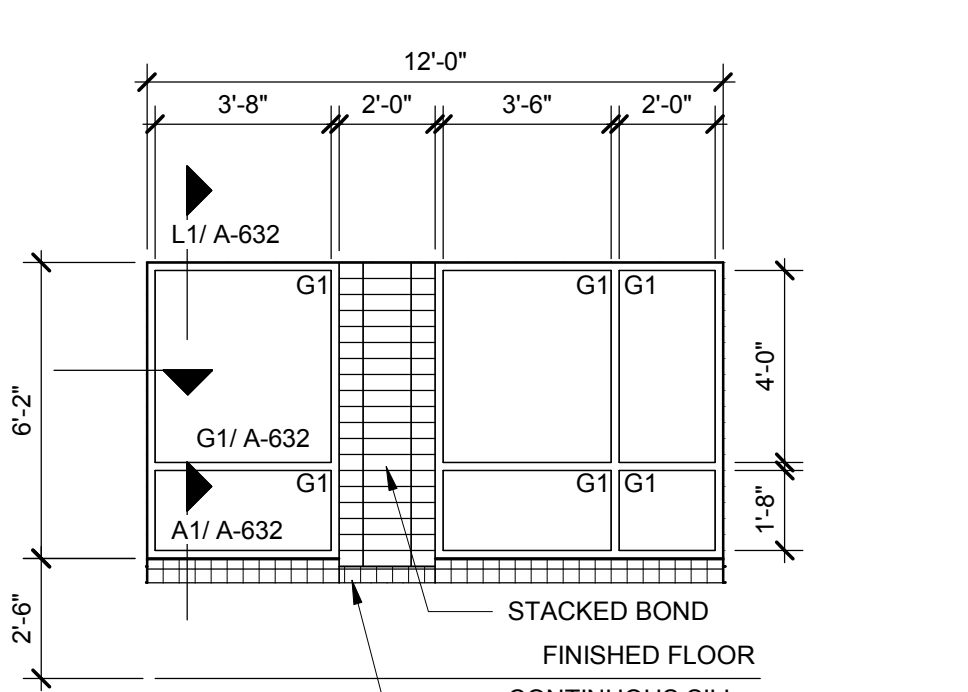
SF R - CLASS 2807
 1/4" = 1'-0" A13



SF Q - LABS
 1/4" = 1'-0" A9



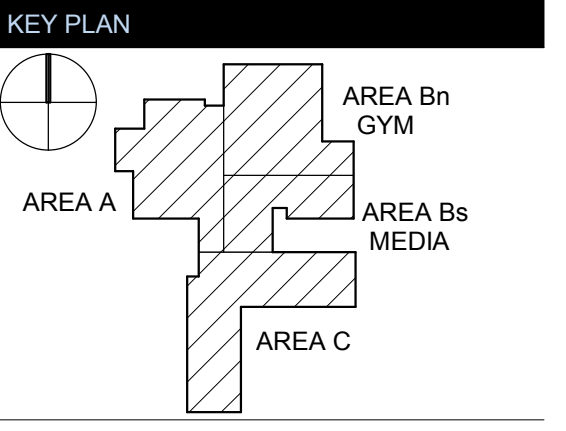
SF P - CLASS WING
 1/4" = 1'-0" A3



SF N - CLASS WING
 1/4" = 1'-0" A1



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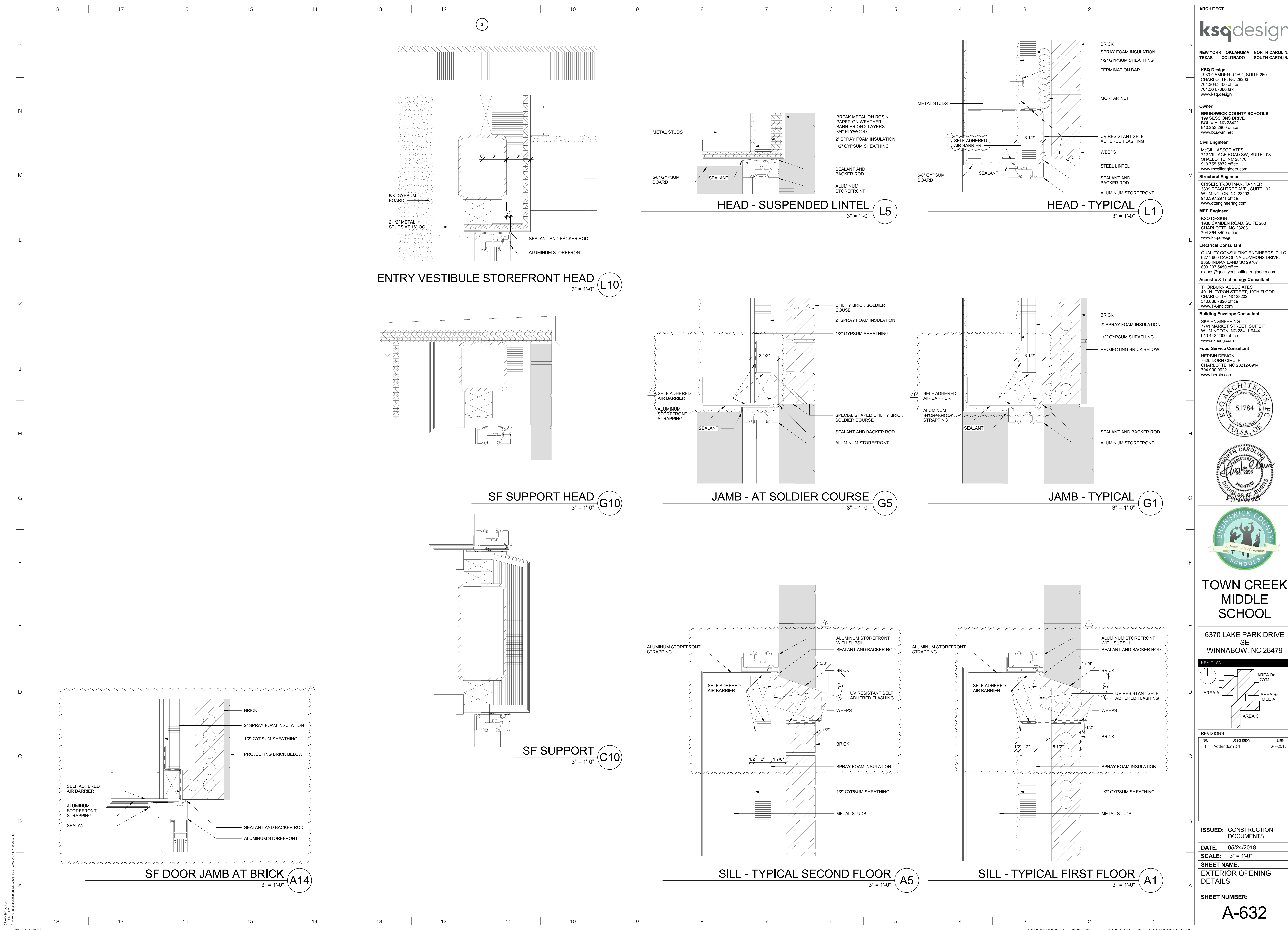


REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: GLAZING SCHEDULE

SHEET NUMBER:
A-622



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REGISTERED ARCHITECT
 DOUGLAS R. BLUM
 2995

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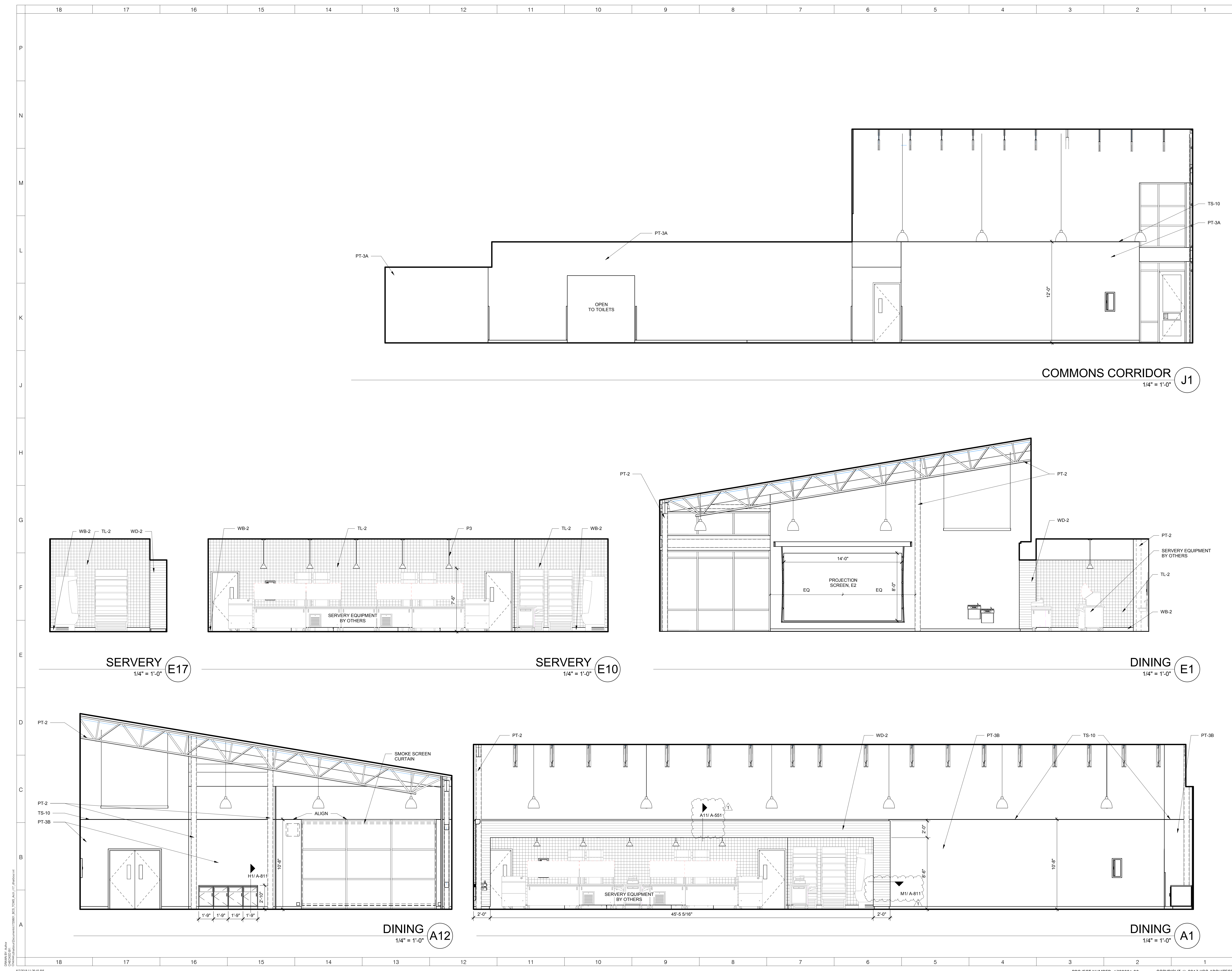
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KEY PLAN
 AREA A
 AREA Bn GYM
 AREA Bs MEDIA
 AREA C

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 3" = 1'-0"
SHEET NAME: EXTERIOR OPENING DETAILS
SHEET NUMBER: A-632



COMMONS CORRIDOR J1
1/4" = 1'-0"

SERVERY E17
1/4" = 1'-0"

SERVERY E10
1/4" = 1'-0"

DINING E1
1/4" = 1'-0"

DINING A12
1/4" = 1'-0"

DINING A1
1/4" = 1'-0"

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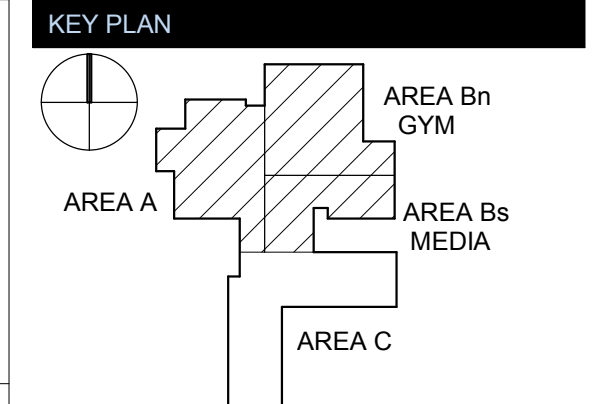
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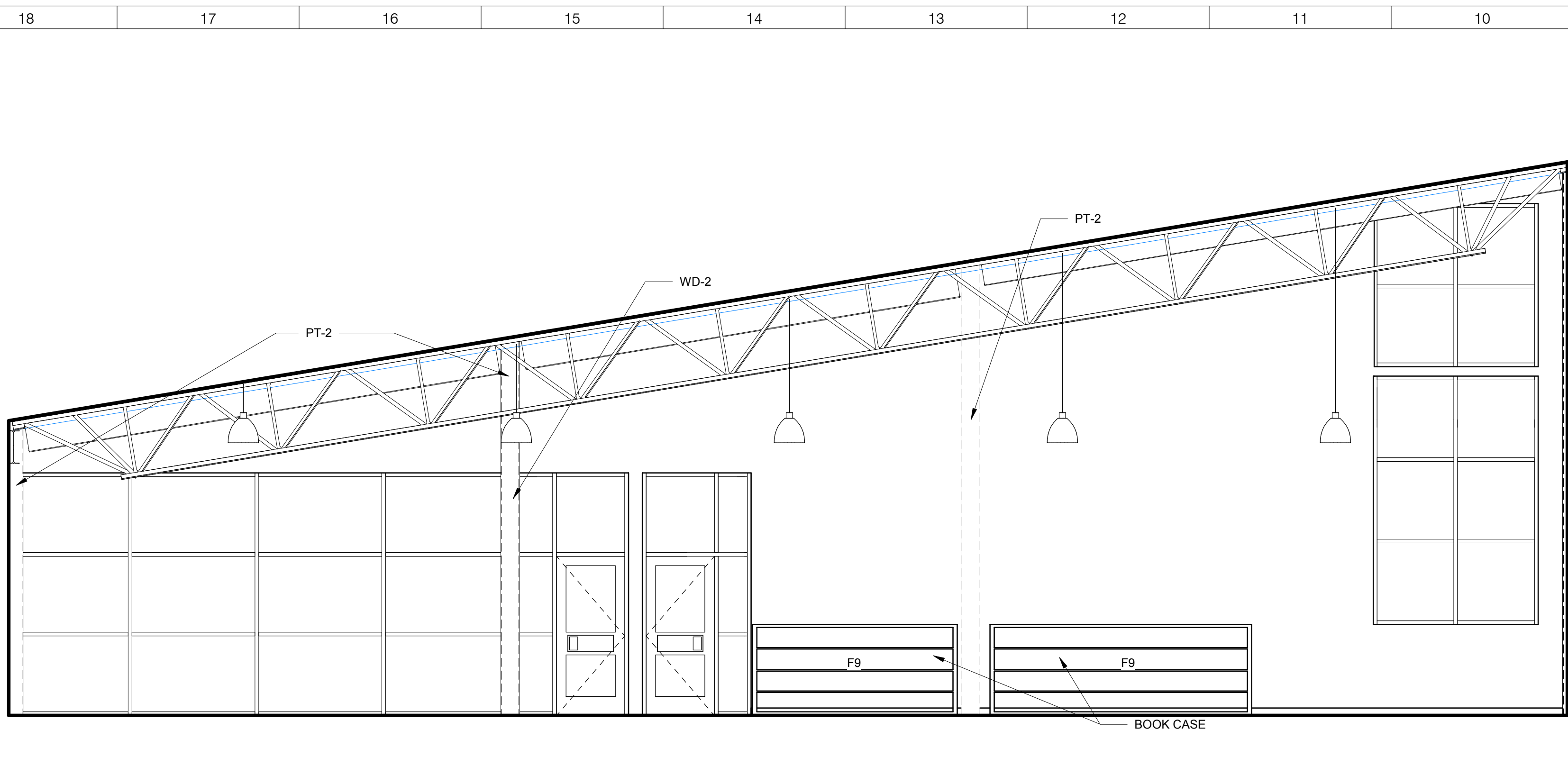


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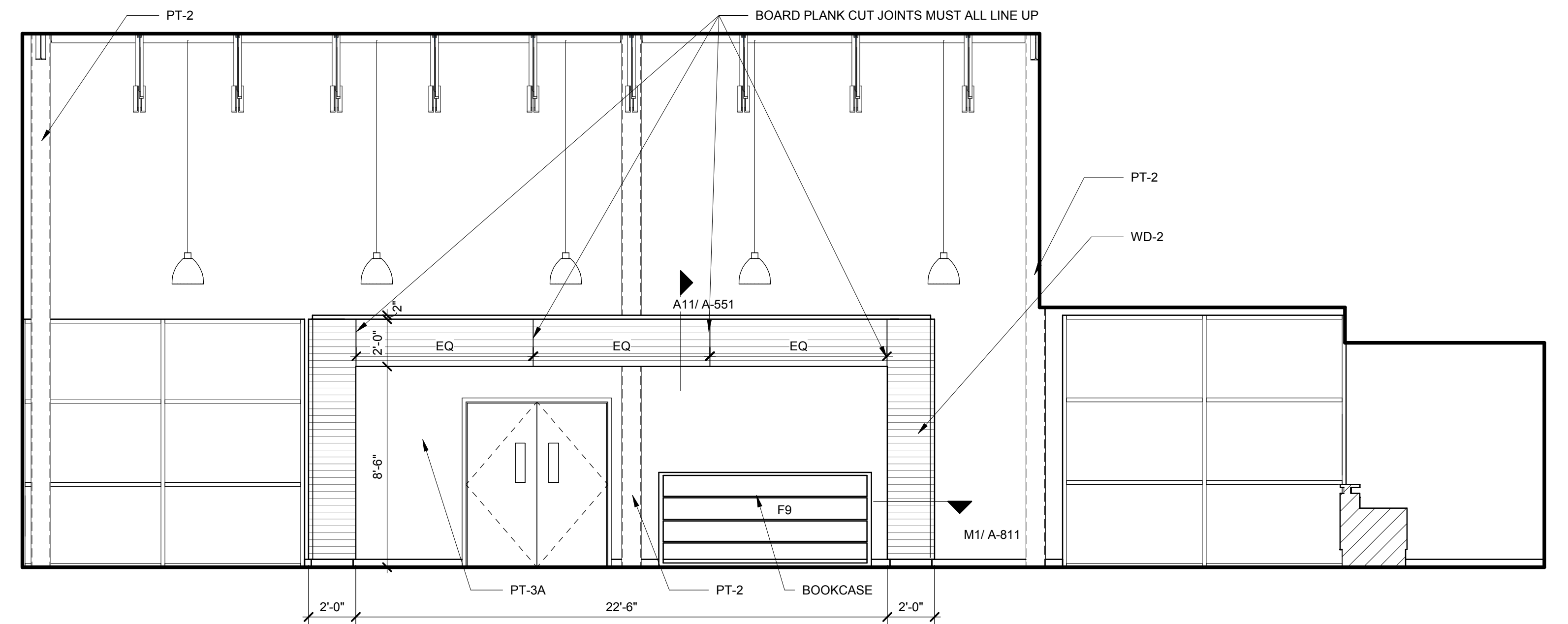
No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
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SHEET NAME: INTERIOR ELEVATIONS
SHEET NUMBER:

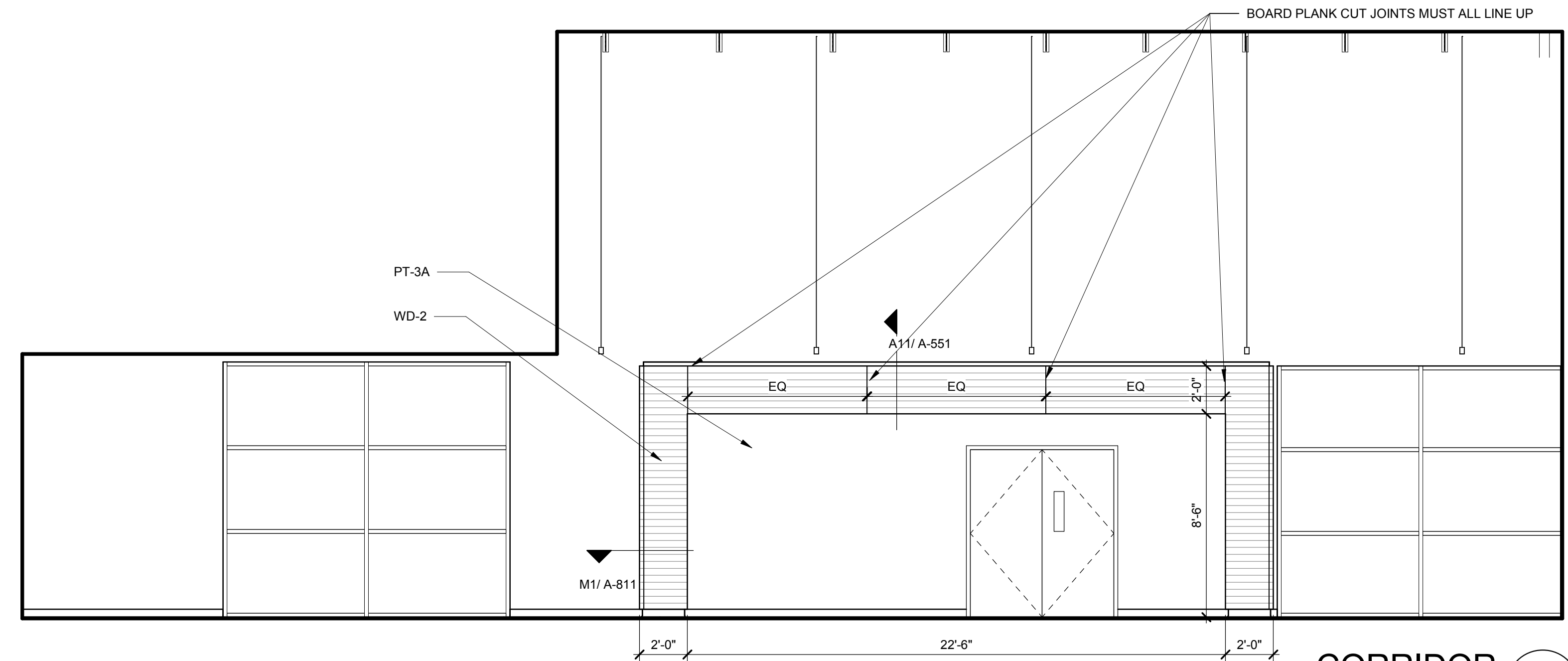
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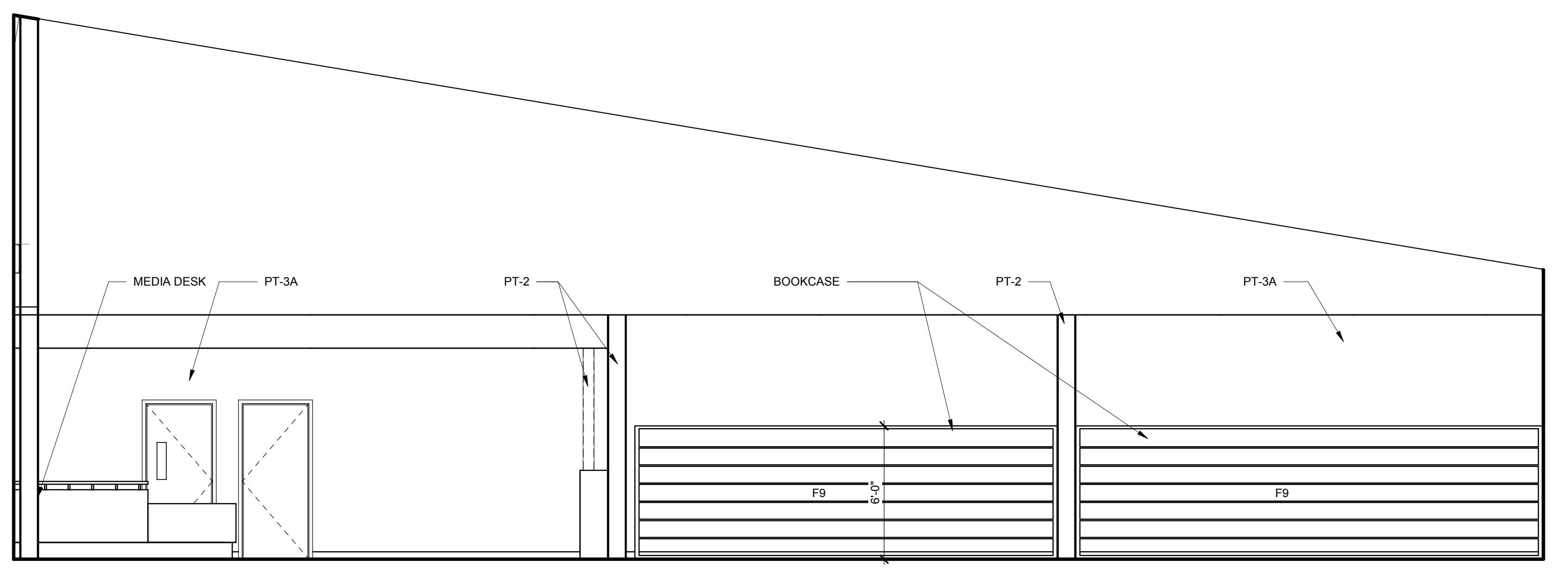
MEDIA CENTER K9
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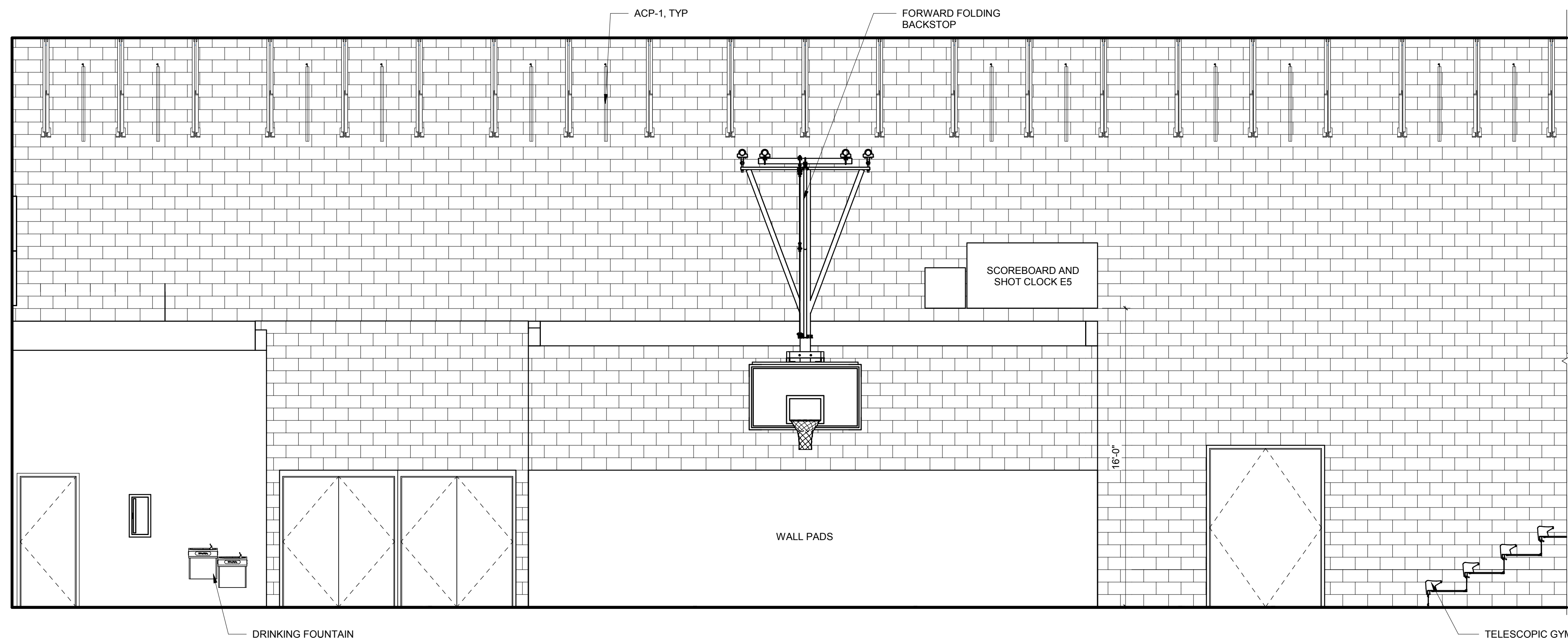
MEDIA CENTER K1
1/4" = 1'-0"



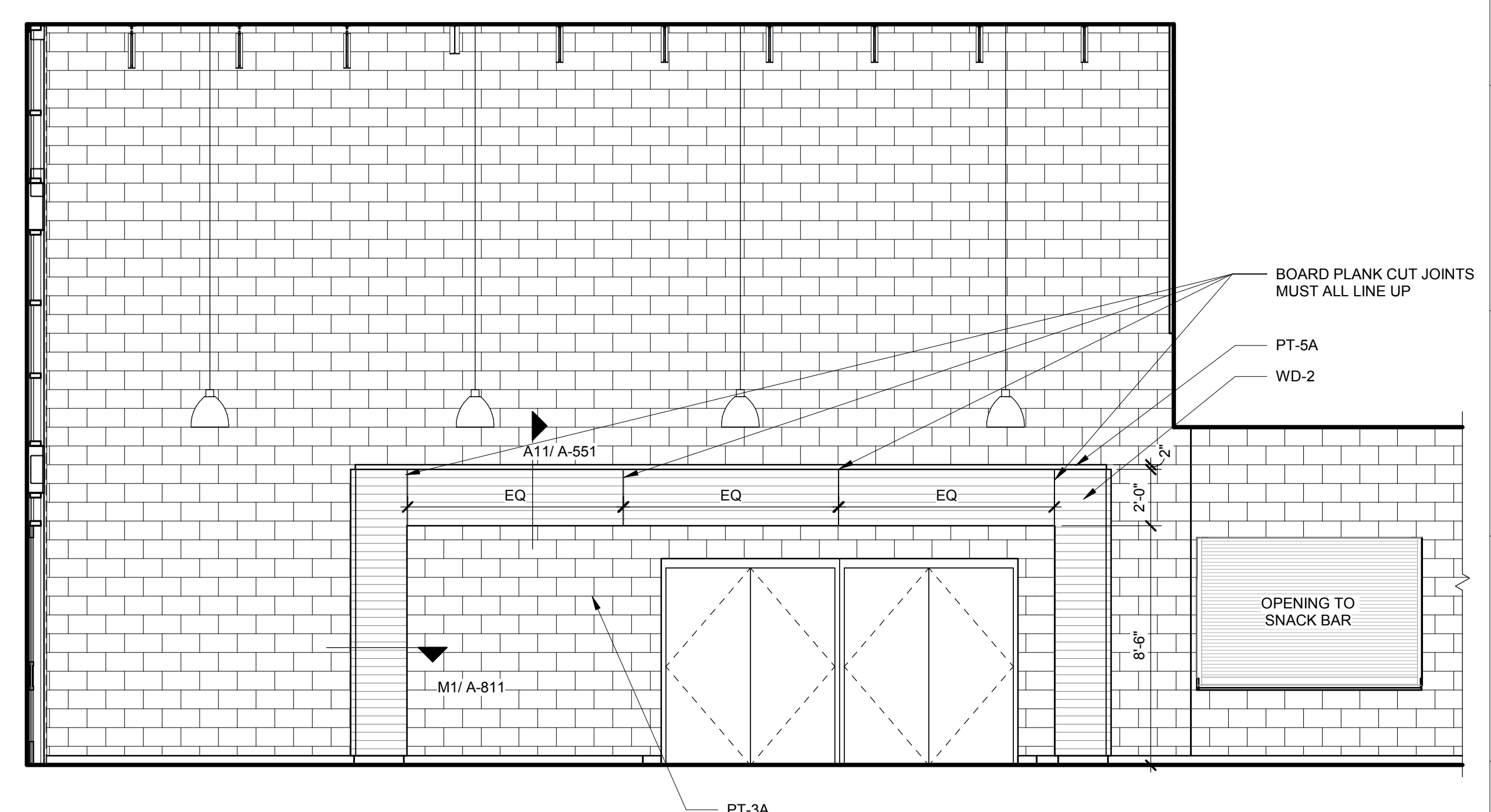
CORRIDOR E10
1/4" = 1'-0"



MEDIA CENTER E1
1/4" = 1'-0"



GYM WEST A8
1/4" = 1'-0"

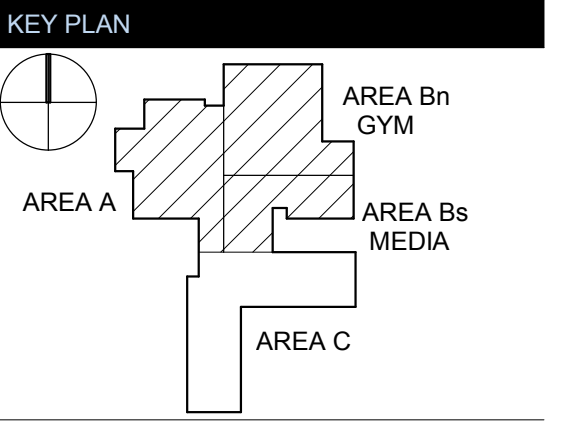


COMMONS CORRIDOR A1
1/4" = 1'-0"



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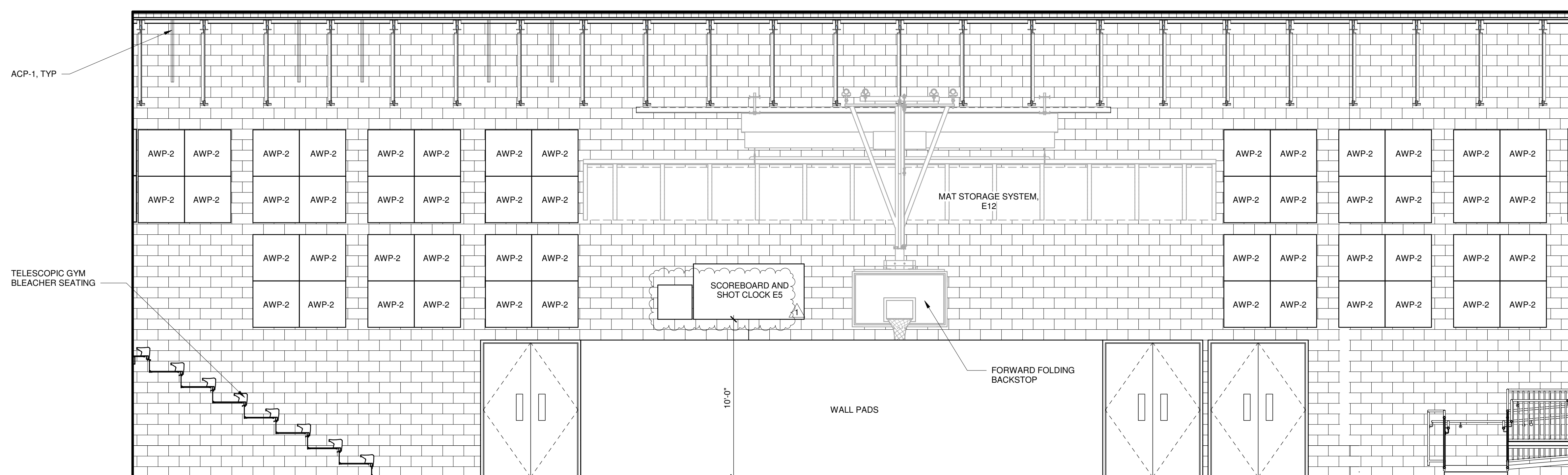
No.	Description	Date
1	ADDENDUM #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

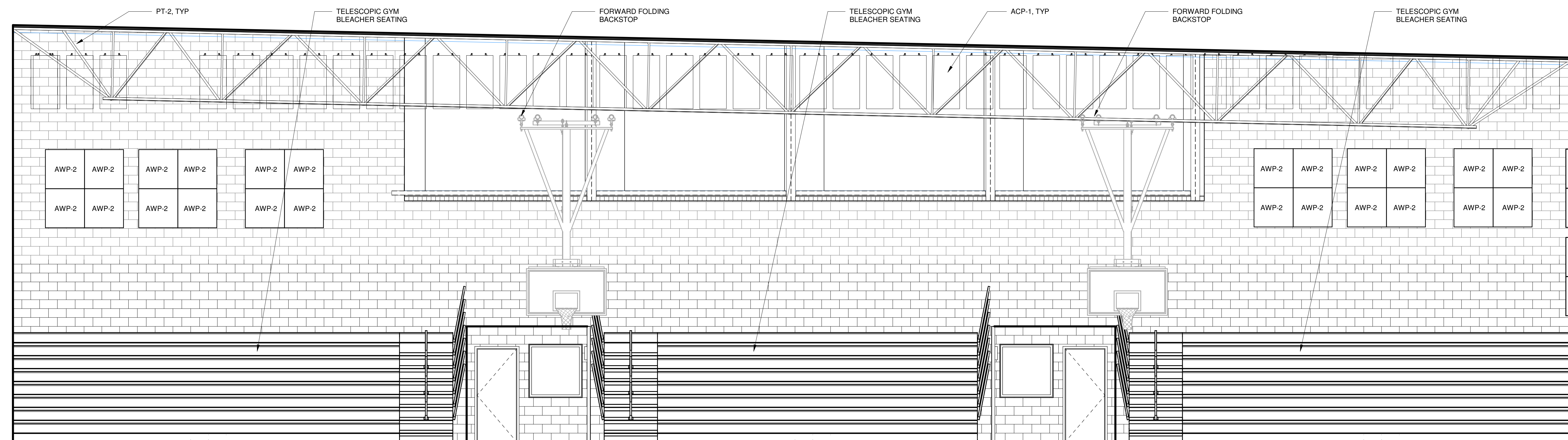
DATE: 05/24/2018
SCALE: 1/4" = 1'-0"
SHEET NAME: INTERIOR ELEVATIONS
SHEET NUMBER:

P
N
M
L
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J
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G
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D
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B
A

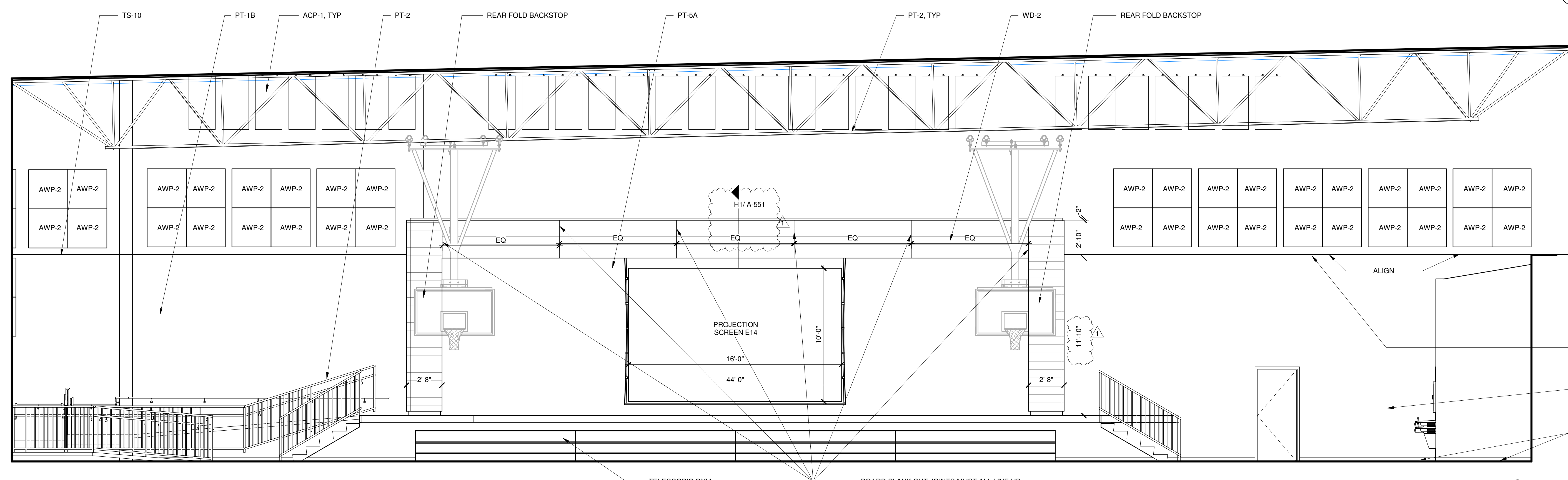
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



GYM EAST
1/4" = 1'-0" (L1)



GYM
1/4" = 1'-0" (F1)



GYM
1/4" = 1'-0" (A1)

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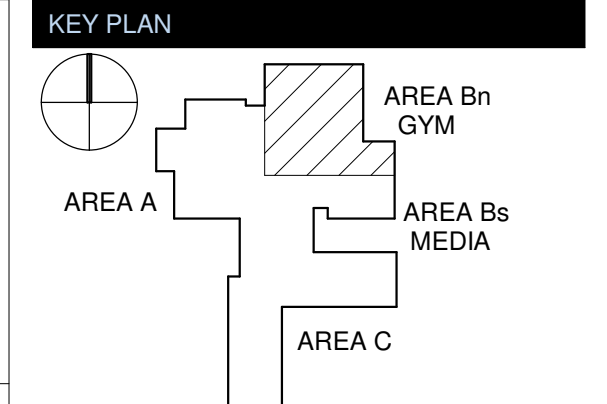
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/4" = 1'-0"
SHEET NAME: INTERIOR ELEVATIONS

SHEET NUMBER:

A-806

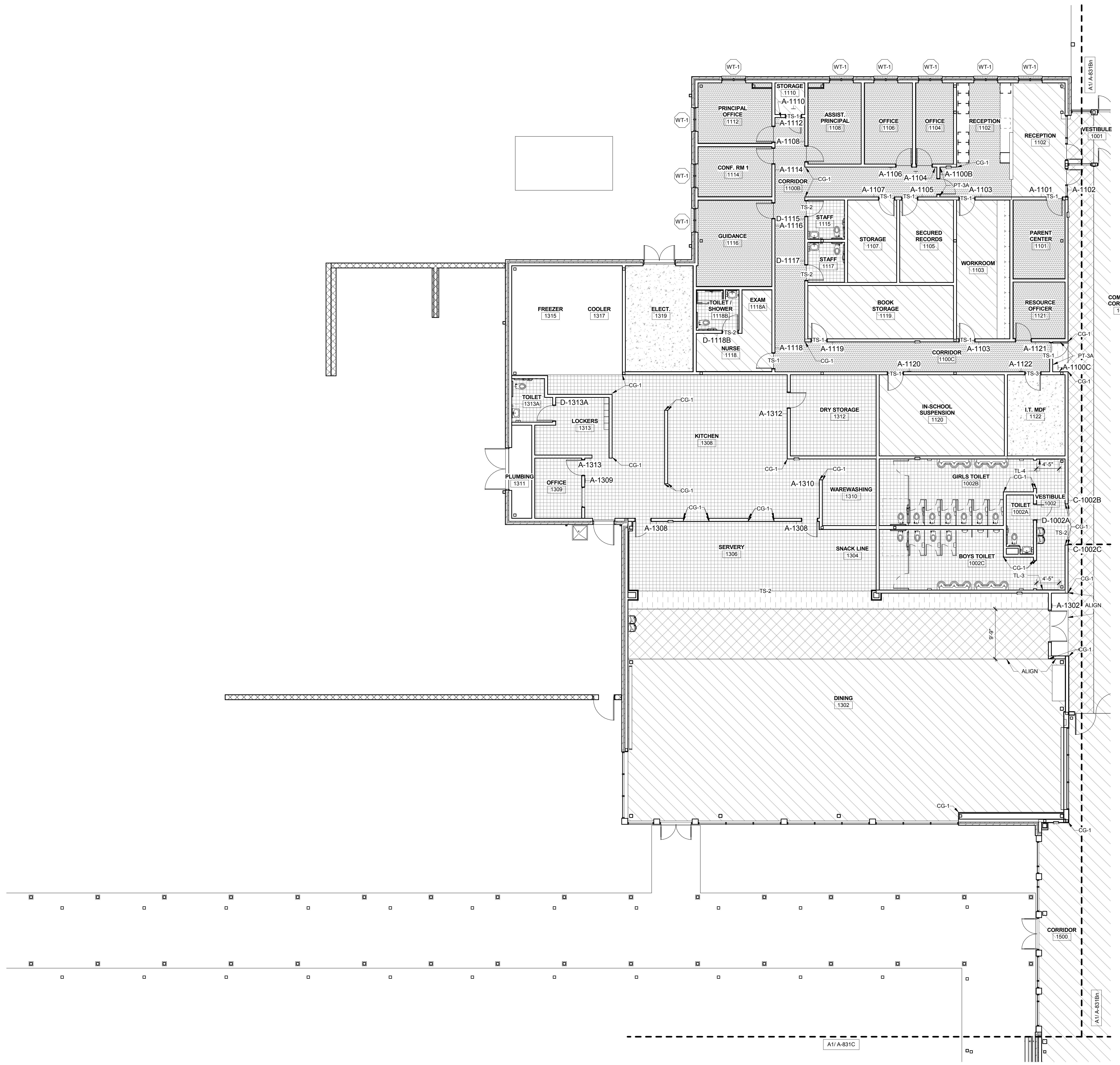
FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND

----- TACKSTRIP, TA-14
 A-1230 SIGN LOCATION REFER TO A-861

SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 1 - AREA A
 1/8" = 1'-0" **A1**

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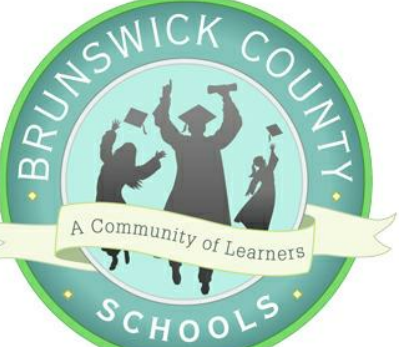
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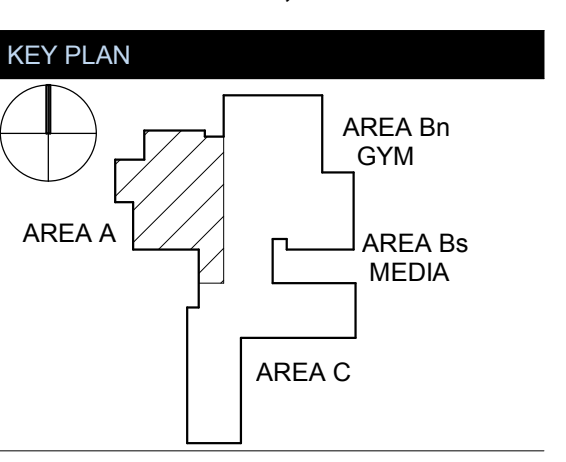
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REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

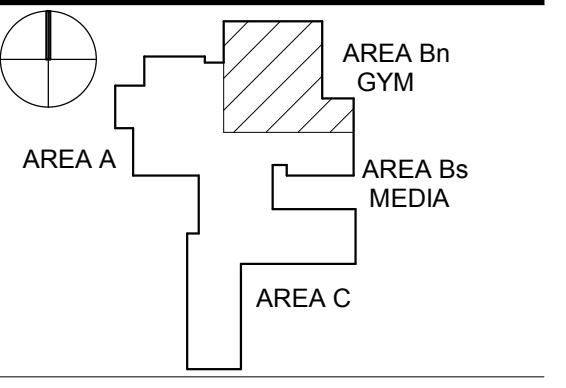
ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: FINISH FLOOR PLAN LEVEL 1 - AREA A
SHEET NUMBER:

A-831A

TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
WINNABOW, NC 28479



REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SCALE: As indicated

SHEET NAME: FINISH FLOOR PLAN LEVEL 1 - AREA B GYM

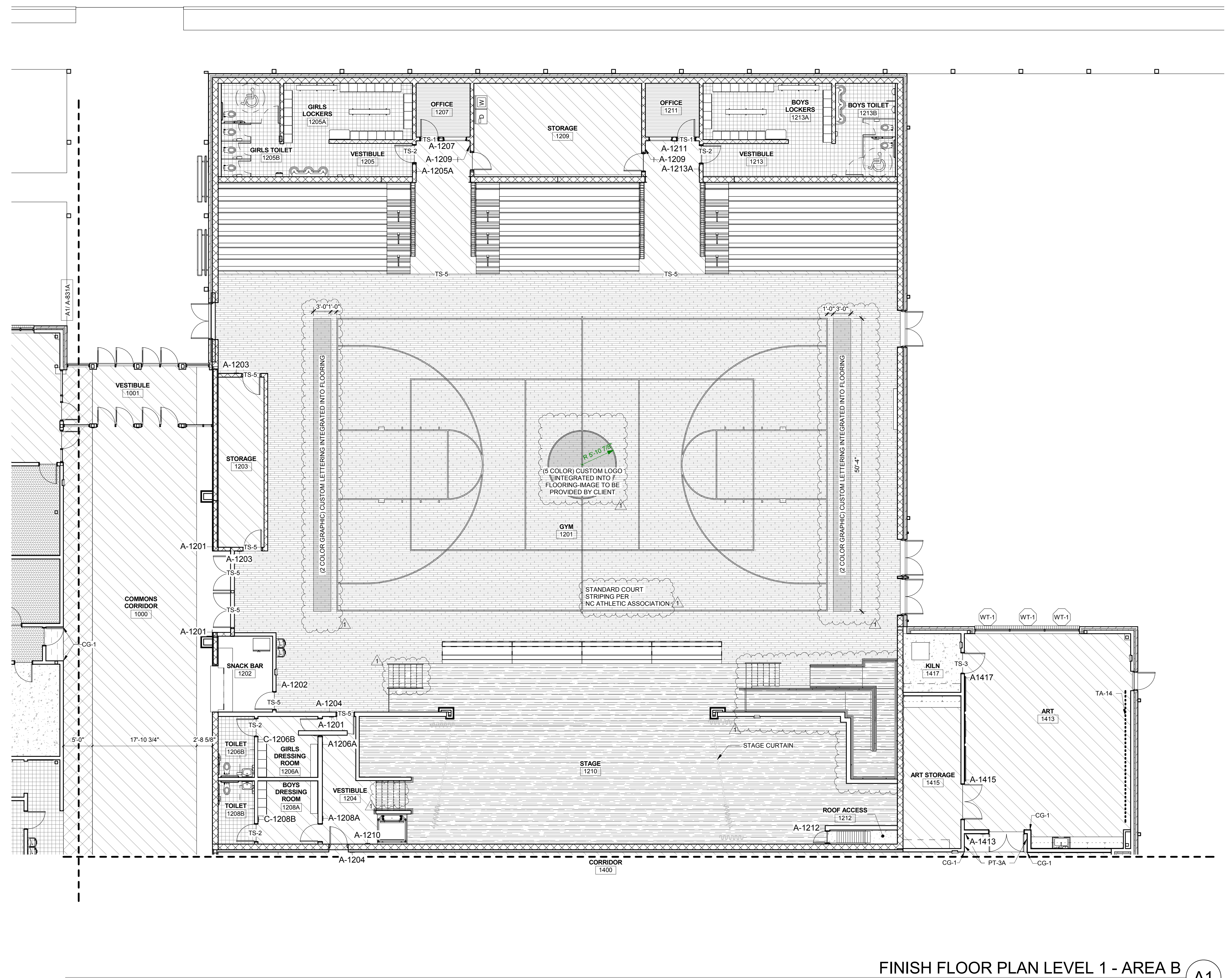
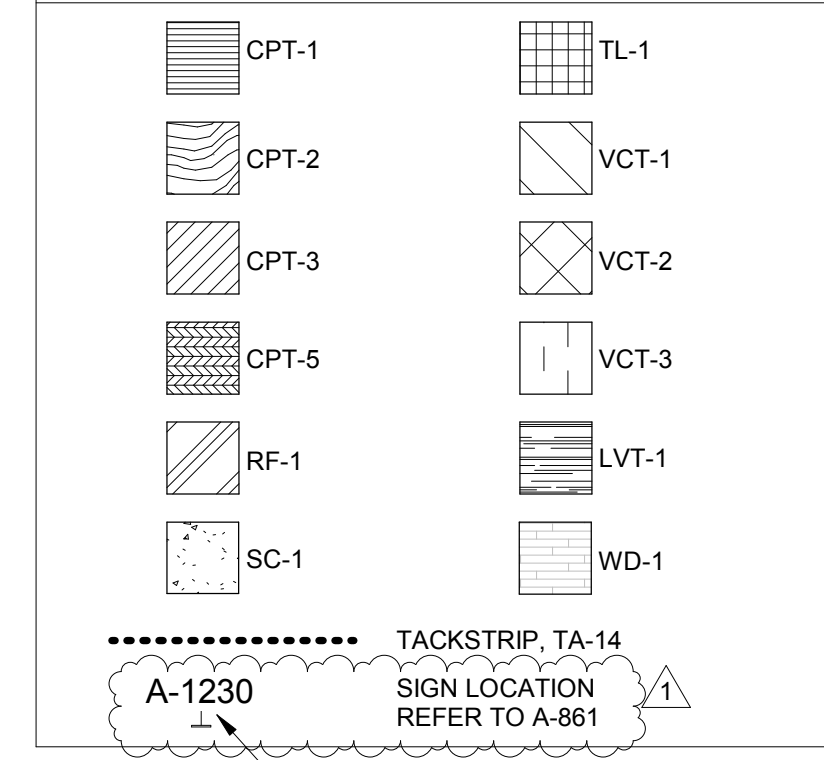
SHEET NUMBER:

A-831Bn

FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND

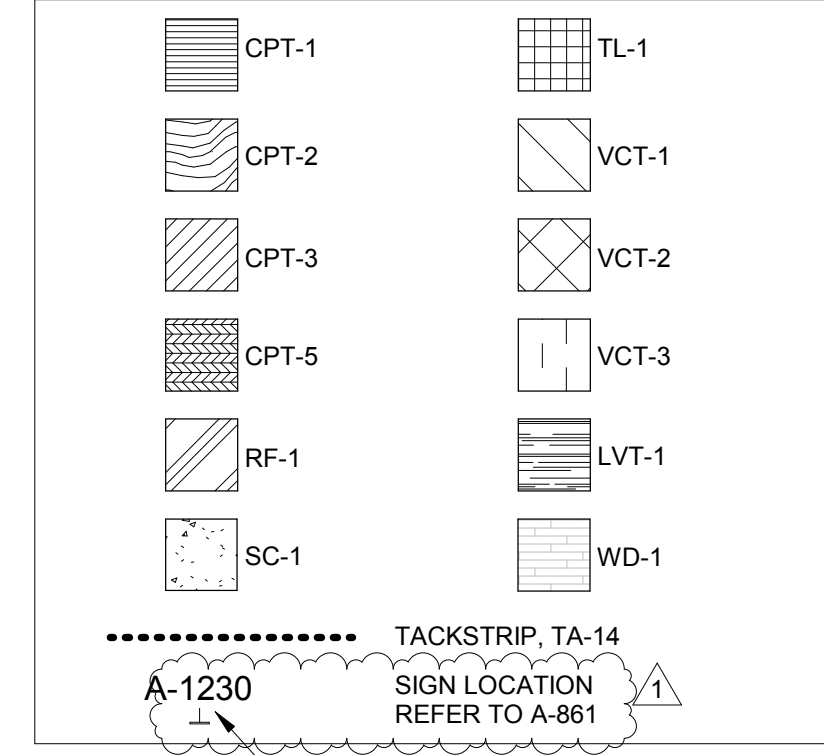


FINISH FLOOR PLAN LEVEL 1 - AREA B A1
1/8" = 1'-0"

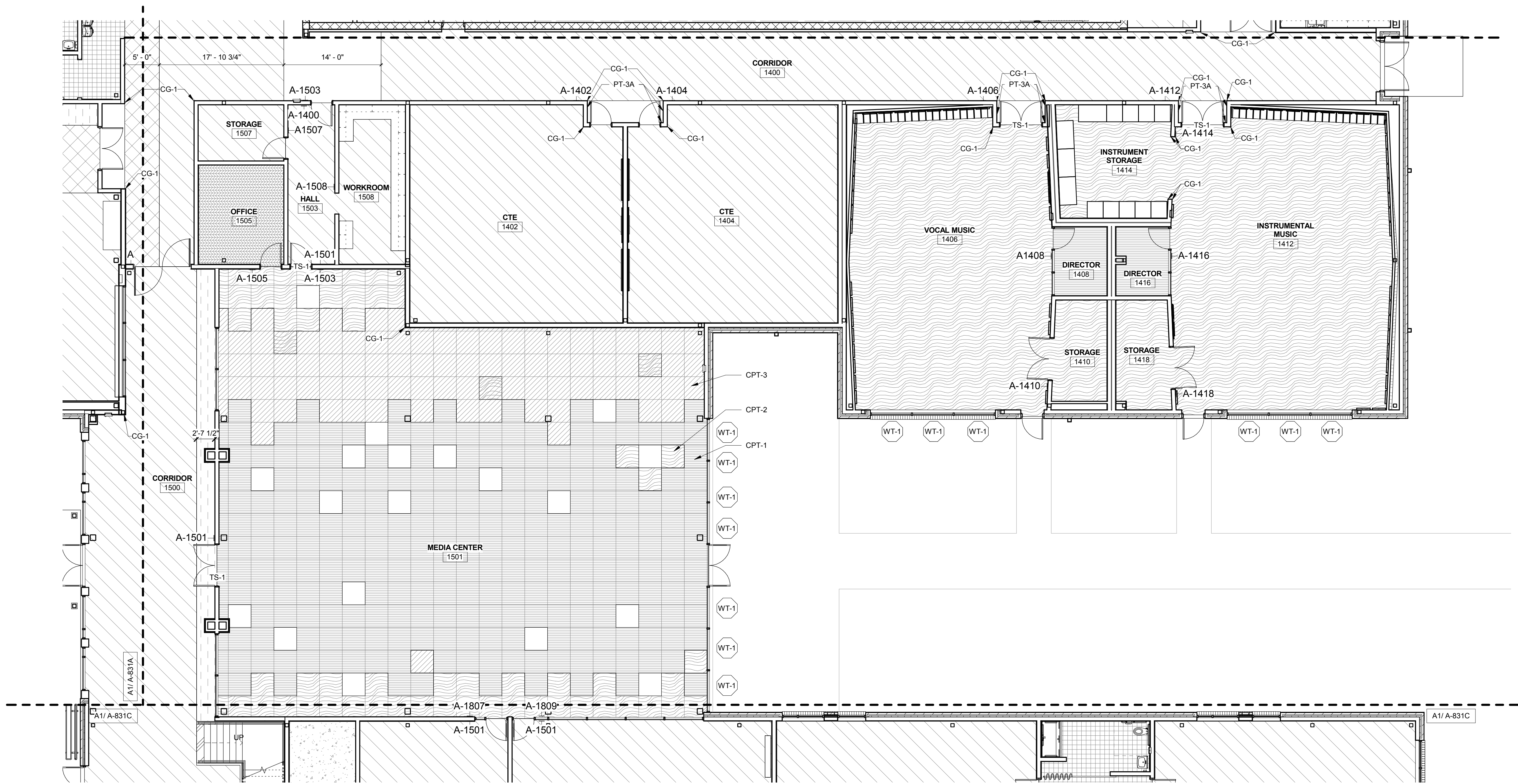
FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHER WISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND



SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 1 - AREA Bs A1
1/8" = 1'-0"



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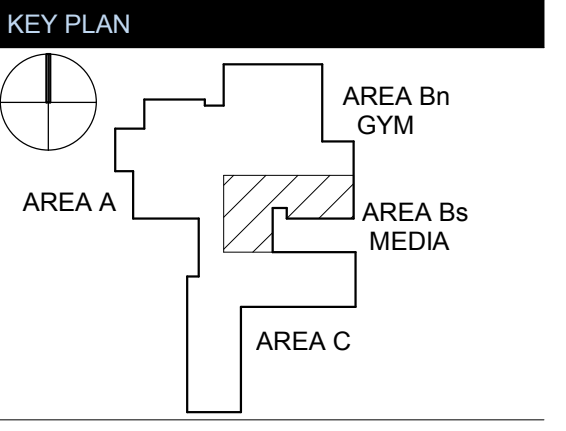
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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
WINNABOW, NC 28479



REVISIONS		
No.	Description	Date
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ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SCALE: As indicated

SHEET NAME:
FINISH FLOOR PLAN
LEVEL 1 - AREA B MEDIA

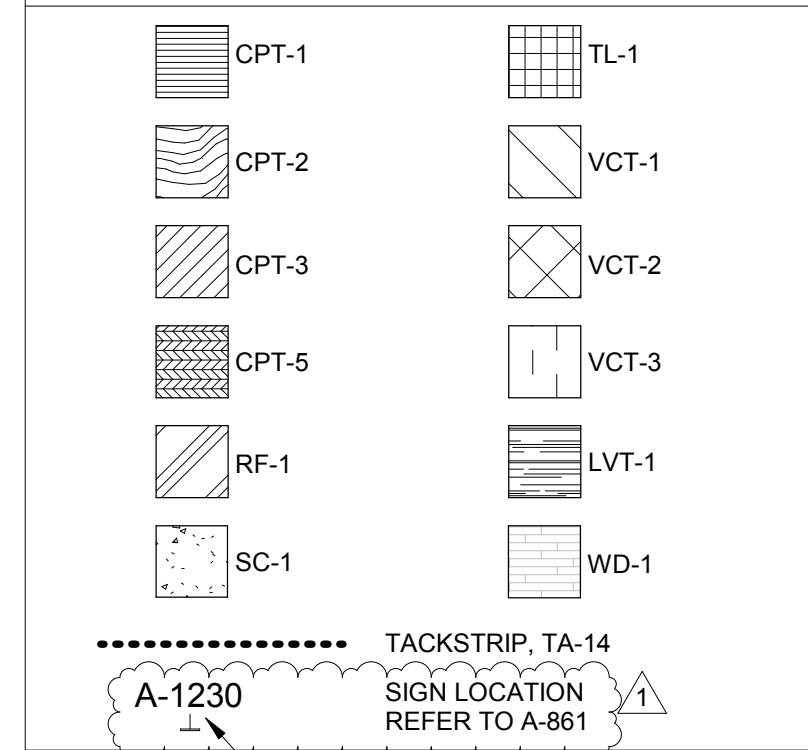
SHEET NUMBER:

A-831Bs

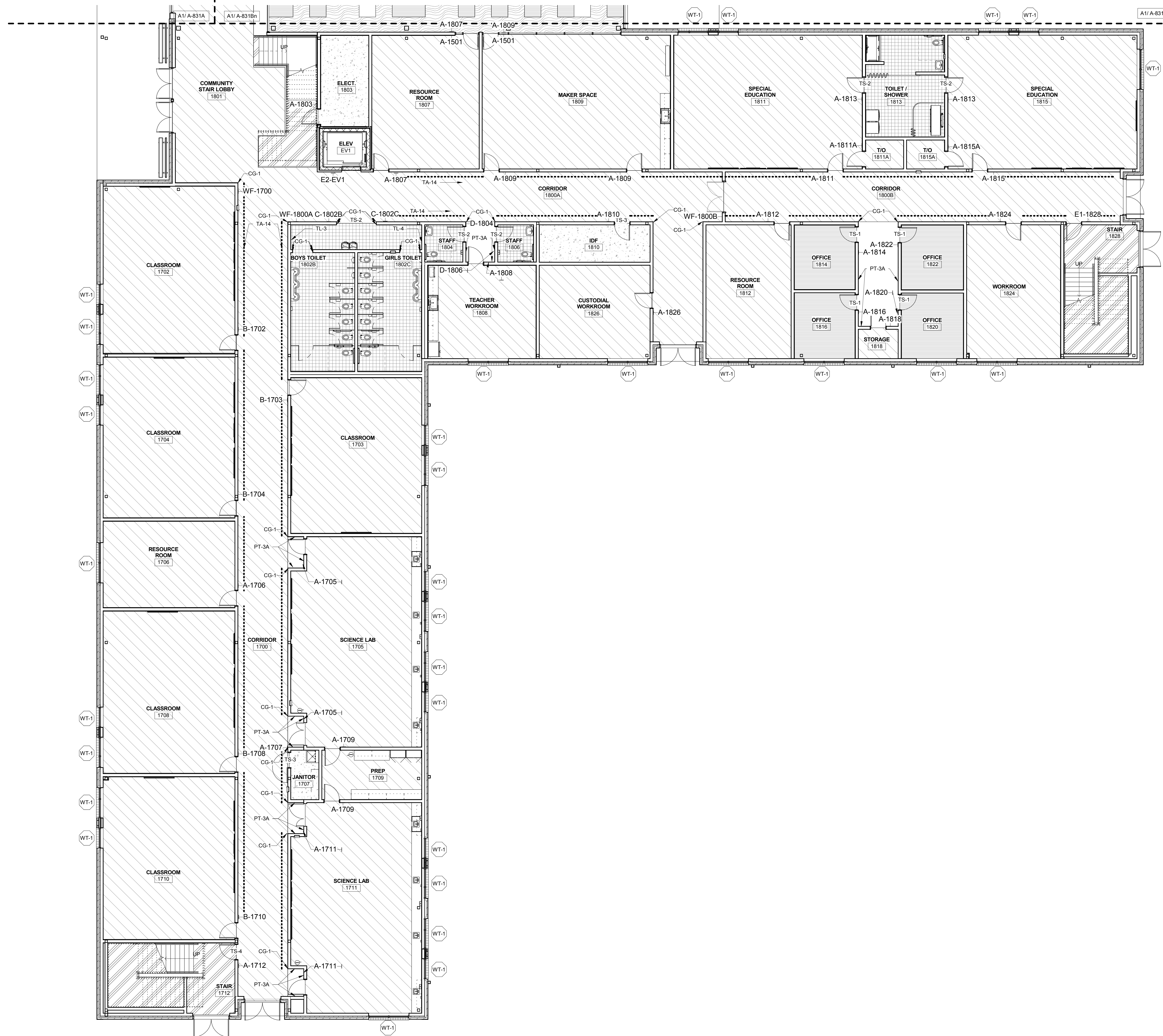
FINISH PLAN GENERAL NOTES

1. ALL PAINT TO BE PT-1A UNLESS OTHERWISE NOTED.
2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
4. NO WALL BASE TO MEASURE LESS THAN 1/3 OF THE OVERALL LENGTH OR A MINIMUM OF 3'-0".
5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACOUSTICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND



SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 1 - AREA C
1/8" = 1'-0" **A1**



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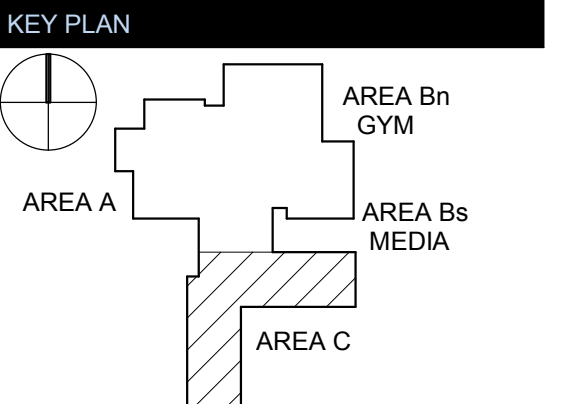
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TOWN CREEK MIDDLE SCHOOL

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WINNABOW, NC 28479



REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

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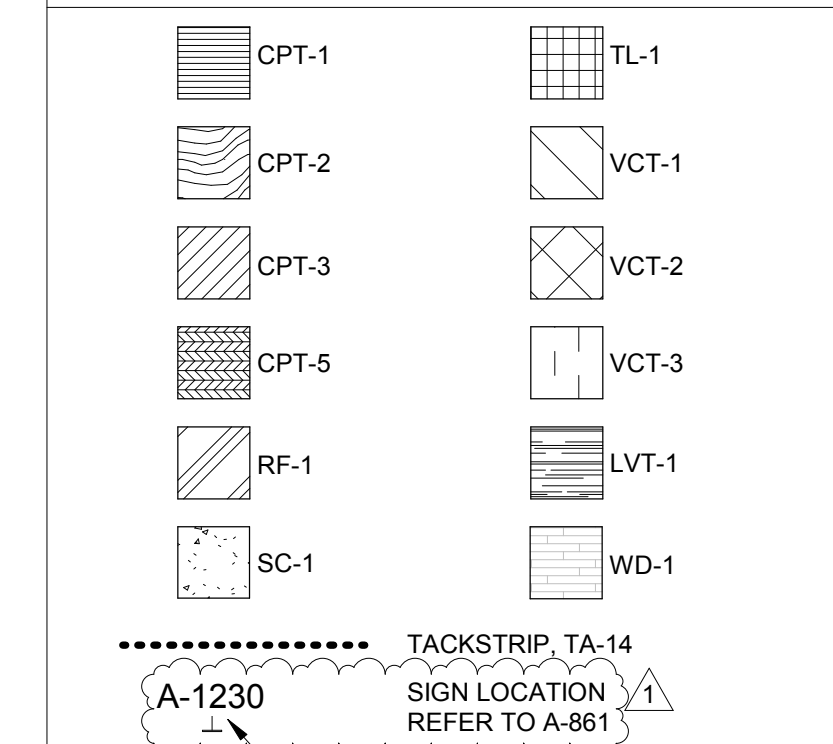
DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: FINISH FLOOR PLAN LEVEL 1 - AREA C
SHEET NUMBER:

A-831C

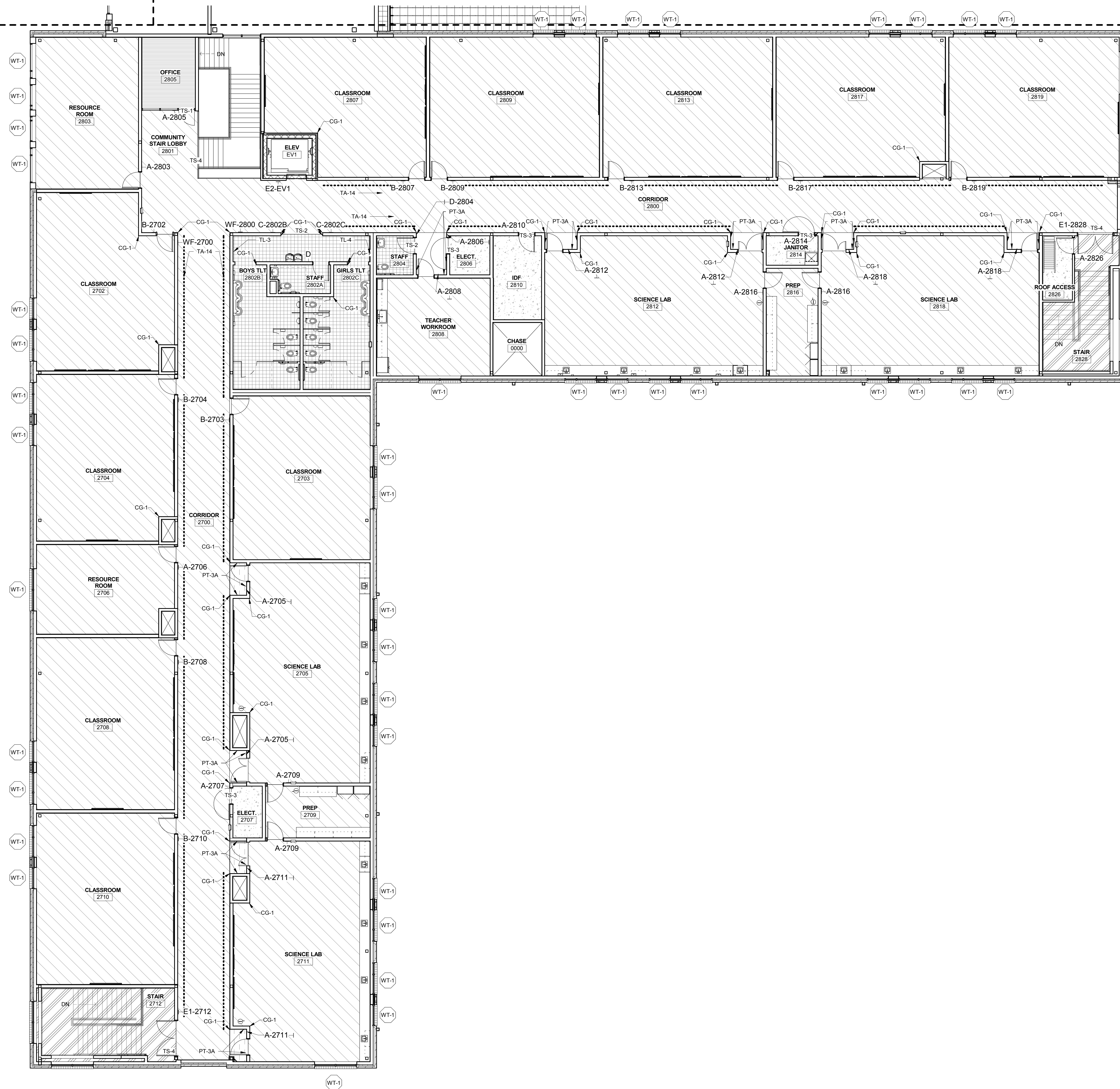
FINISH PLAN GENERAL NOTES

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2. ALL GYP BOARD CEILINGS TO BE PT-1A UNLESS OTHERWISE NOTED.
3. ALL WALL BASE TO BE WB-1 UNLESS OTHERWISE NOTED.
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5. DOOR FRAMES TO BE PT-2 UNLESS OTHERWISE NOTED.
6. ALL EXPOSED STRUCTURE TO BE PT-2 UNLESS OTHERWISE NOTED.
7. START FULL WALL TILE AT FLOOR UNLESS OTHERWISE NOTED, SCRIBE TO FLOOR.
8. CENTER ALL ACoustICAL CEILING TILE GRIDS IN CENTER OF CEILING TO ACHIEVE EQUAL WIDTHS AT PERIMETER.
9. PROVIDE SEAMING PLANS FOR ALL LAMINATE.

FLOOR FINISH LEGEND



SIGN SYMBOL ADDED TO PLAN AT DOORS AND CORRIDORS



FINISH FLOOR PLAN LEVEL 2 - AREA C
1/8" = 1'-0" **A1**



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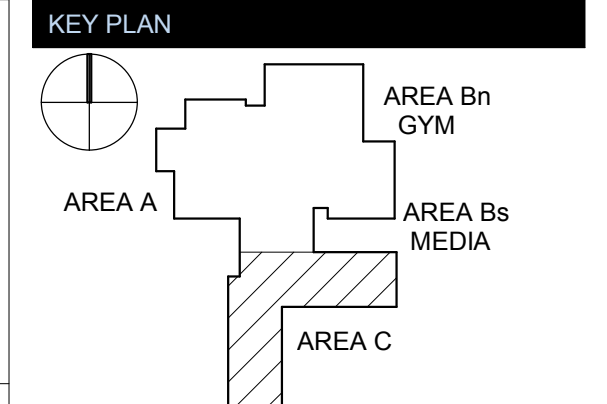
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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479



REVISIONS		
No.	Description	Date
1	Addendum #1	6-7-2018

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DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: FINISH FLOOR PLAN LEVEL 2 - AREA C
SHEET NUMBER:

A-832C

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALLS	CEILING FINISH	COMMENTS
1227	LOADING AREA	-	-	-	-	
1000	COMMONS CORRIDOR	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A	-	
1001	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1002	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1002A	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1002B	GIRLS TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1002C	BOYS TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1100A	CORRIDOR	CPT-5	WB-1	PT-1A	ACT-1	
1100B	CORRIDOR	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1100C	CORRIDOR	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1101	PARENT CENTER	CPT-5	WB-1	PT-1A	ACT-1	
1102	RECEPTION	VCT-1CPT-5	WB-1	PT-1A/PT-3A	ACT-1	
1103	WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1104	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1105	SECURED RECORDS	VCT-1	WB-1	PT-1A	ACT-1	
1106	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1107	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1108	ASSIST. PRINCIPAL	CPT-5	WB-1	PT-1A	ACT-1	
1110	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1112	PRINCIPAL OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1114	CONF. RM 1	CPT-5	WB-1	PT-1A	ACT-1	
1115	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1116	GUIDANCE	CPT-5	WB-1	PT-1A	ACT-1	
1117	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1118	NURSE	VCT-1	WB-1	PT-1A	ACT-1	
1118A	EXAM	VCT-1	WB-1	PT-1A	ACT-1	
1118B	TOILET / SHOWER	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1119	BOOK STORAGE	TL-1	WB-1	PT-1A	ACT-1	
1120	IN-SCHOOL SUSPENSION	CPT-5	WB-1	PT-1A	ACT-1	
1121	RESOURCE OFFICER	CPT-5	WB-1	PT-1A	ACT-1	
1122	I.T. MDF	SC-1	WB-1	PT-1A	ACT-1	
1201	GYM	WD-1WD-3RF-5/VC	WB-3	PT-1A/PT-3A	-	REF: FINISH FLOOR PLANS FOR FLOORING LOCATIONS
1202	SNACK BAR	VCT-1	WB-1	PT-1A	ACT-1	
1203	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1204	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1205	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1205A	GIRLS LOCKERS	TL-1	WB-2	PT-1B	PT-1B	
1205B	GIRLS TOILET	TL-1	WB-2	TL-2/TL-4/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1206A	GIRLS DRESSING ROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	PT-1A	
1206B	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1207	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1208A	BOYS DRESSING ROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1208B	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1209	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1210	STAGE	VCT-4	WB-1	PT-1A	ACT-1	
1211	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1212	ROOF ACCESS	-	-	-	-	
1213	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1213A	BOYS LOCKERS	TL-1	WB-2	PT-1B	PT-1B	
1213B	BOYS TOILET	TL-1	WB-2	TL-2/TL-3/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1226	LOADING AREA	-	-	-	-	
1302	DINING	VCT-1VCT-2VCT-3	WB-1	PT-1A/PT-3A/PT-5B	ACT-1/PT-2/PT-5A	
1304	SNACK LINE	TL-1	WB-2	TL-2	PT-1B	
1306	SERVERY	TL-1	WB-2	TL-2	PT-1B	
1308	KITCHEN	TL-1	WB-2	FRP-1	ACT-2	
1309	OFFICE	TL-1	WB-2	PT-1B	ACT-2	
1310	WAREWASHING	TL-1	WB-2	FRP-1	ACT-2	
1311	PLUMBING	SC-1	WB-1	PT-1B	-	
1312	DRY STORAGE	TL-1	WB-1	PT-1B	ACT-2	
1313	LOCKERS	TL-1	WB-1	PT-1B	ACT-2	
1313A	TOILET	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1315	FREEZER	-	-	-	-	
1317	COOLER	-	-	-	-	
1319	ELECT.	SC-1	WB-1	PT-1A	-	
1400	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1402	CTE	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1404	CTE	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1406	VOCAL MUSIC	CPT-2	WB-1	PT-1A/ AWP-1	ACT-1	
1408	DIRECTOR	CPT-5	WB-1	PT-1A	ACT-1	
1410	STORAGE	CPT-2	WB-1	PT-1A	ACT-1	
1412	INSTRUMENTAL MUSIC	CPT-2	WB-1	PT-1A/ AWP-1	ACT-1	
1413	ART	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1414	INSTRUMENT STORAGE	CPT-2	WB-1	PT-1	ACT-1	
1415	ART STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1416	DIRECTOR	CPT-5	WB-1	PT-1A	ACT-1	
1417	KILN	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1418	STORAGE	CPT-2	WB-1	PT-1	ACT-1	
1500	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1501	MEDIA CENTER	CPT-1CPT-2/CPT-3	WB-1	PT-1A/PT-3A/PT-5A	ACT-1/PT-3A/PT-5A	
1503	HALL	VCT-1	WB-1	PT-1A	ACT-1	
1505	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1507	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1508	WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1700	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1702	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1703	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1704	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1705	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1706	RESOURCE ROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1707	JANITOR	SC-1	WB-1	FRP-1	-	UP TO 8'-0"
1708	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1709	PREP	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1710	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1711	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1712	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
1800A	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1800B	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1800C	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
1801	COMMUNITY STAIR LOBBY	RF-1RF-2	WB-1	PT-1A	-	RF-1 ON LANDINGS, RF-2 ON STAIR TREADS, RISERS AND NOSINGS, PT-4 ON HANDRAILS AND STAIR
1802	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
1802B	BOYS TOILET	TL-1	WB-2	TL-2/TL-3/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1802C	GIRLS TOILET	TL-1	WB-2	TL-2/TL-4/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1803	ELECT.	SC-1	WB-1	PT-1A	-	
1804	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1805	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
1806	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1807	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
1808	TEACHER WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1809	MAKER SPACE	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1810	IDF	SC-1	WB-1	PT-1A	ACT-1	
1811	SPECIAL EDUCATION	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1811A	TO	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1812	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
1813	TOILET / SHOWER	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
1814	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1815	SPECIAL EDUCATION	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1815A	TO	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
1816	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1818	STORAGE	VCT-1	WB-1	PT-1A	ACT-1	
1820	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1822	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
1824	WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1826	CUSTODIAL WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
1828	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
EV1	ELEV	CPT-1	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALLS	CEILING FINISH	COMMENTS
2700	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
2702	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2703	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2704	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2705	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2706	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
2707	ELECT.	SC-1	WB-1	PT-1A	-	
2708	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2709	PREP	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2710	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2711	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2712	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.
2800	CORRIDOR	VCT-1VCT-3	WB-1	PT-1A/PT-3A	ACT-1/PT-3A	
2801	COMMUNITY STAIR LOBBY	RF-1RF-2	WB-1	PT-1A	-	RF-1 ON LANDINGS, RF-2 ON STAIR TREADS, RISERS AND NOSINGS, PT-4 ON HANDRAILS AND STAIR
2802	VESTIBULE	VCT-1VCT-2VCT-3	WB-1	PT-1A	-	
2802A	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2802B	BOYS TLT	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2802C	GIRLS TLT	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2803	RESOURCE ROOM	VCT-1	WB-1	PT-1A	ACT-1	
2804	STAFF	TL-1	WB-2	TL-2/PT-1B	PT-1B	REF: INTERIOR ELEVATIONS FOR TILE LOCATIONS
2805	OFFICE	CPT-5	WB-1	PT-1A	ACT-1	
2806	ELECT.	SC-1	WB-1	PT-1A	-	
2807	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2808	TEACHER WORKROOM	VCT-1	WB-1	PT-1A	ACT-1	
2809	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2810	IDF	SC-1	WB-1	PT-1A	ACT-1	
2812	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2813	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2814	JANITOR	SC-1	WB-1	FRP-1	ACT-1	UP TO 8'-0"
2816	PREP	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2817	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2818	SCIENCE LAB	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2819	CLASSROOM	VCT-1VCT-2VCT-3	WB-1	PT-1A	ACT-1	
2826	ROOF ACCESS	-	-	-	-	
2828	STAIR	RF-3RF-4	WB-1	PT-1A	-	RF-3 ON LANDINGS, RF-4 ON STAIR TREADS, RISERS AND NOSINGS, PT-1 ON HANDRAILS.

SYMBOL	MATERIAL TYPE	MANUFACTURER	PATTERN	COLOR	NOTES
ACT-1	ACOUSTICAL CEILING TILE; 2X2	ARMSTRONG	OPTIMA LAY-IN	WHITE	MUST MEET NRC 0.7
ACT-2	ACOUSTICAL CEILING TILE; 2X2	ARMSTRONG	CLEAN ROOM FL	WHITE	MOISTURE PRONE LOCATIONS
ACP-1	ACOUSTICAL CEILING PANEL; 2' WIDE X 4' TALL	ARMSTRONG	SOUND/BAFFLES, SAILCLOTH	TBD	GYMNASIUM CEILING
AWP-1	ACOUSTICAL WALL PANEL; 2X2'	WENGER	ABSORBER PANELS	LEAF	INSTRUMENTAL/VOCAL CLASSROOMS
AWP-2	ACOUSTICAL CEILING PANEL; 3X3'	ALPRO	ACOUST-X, 22 GAUGE PERFORATED STEEL	TBD	GYMNASIUM WALLS
CG-1	CORNER GUARD	KOROSEAL	2" STAINLESS STEEL CORNER GUARD	STAINLESS STEEL	ALL OUTSIDE CORNERS AS SHOWN ON FINISH PLANS
CPT-1	CARPET TILE; 50X50	MILLIKEN	LYCEUM PLATO	PLN69 MICA	FIELD CARPET
CPT-2	CARPET TILE; 50X50	MILLIKEN	LYCEUM PLATO	PLB141 ROLLING STONE	ACCENT CARPET
CPT-3	CARPET TILE; 50X50	MILLIKEN	LYCEUM PLATO	PLB103 SPRING	ACCENT CARPET
CPT-4	NOT USED	-	-	-	-
CPT-5	CARPET TILE; 50X50	MILLIKEN	STRAIGHT TALK EYE CONTACT	EC524 LEAF	ADMINISTRATION AND OFFICES
FRP-1	FIBER REINFORCED PLASTIC	MARLITE	STANDARD FRP - PEBBLED	WHITE	BOH KITCHEN - UP TO CEILING, JANITOR
GR-1	GROUT	CUSTOM BUILDING	FUSION PRO	#335 WINTER GRAY	ALL GROUT
PL-1	PLASTIC LAMINATE	NEVAMAR	S7027T	SMOKY WHITE	TYPICAL COUNTERTOPS
PL-2	PLASTIC LAMINATE	NEVAMAR	WM0046	ILLUSTRIOUS MAPLE	TYPICAL UPPER/LOWER CABINETS
PL-3	PLASTIC LAMINATE	NEVAMAR	SS001 T	BLACK	ALL CABINET TOEGRIPS
PT-1A	PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX; EGGSHELL	SW 7042 SHOJI WHITE	FIELD PAINT
PT-1B	PAINT	SHERWIN WILLIAMS	WATER BASED CATALYZED EPOXY; EGGSHELL	SW 7042 SHOJI WHITE	WET AREA FIELD PAINT
PT-2	PAINT	SHERWIN WILLIAMS	PRO-INDUSTRIAL ACRYLIC SEMI GLOSS	SW 7031 MEGA GREIGE	STAIR RAILINGS, HANDRAILS, STRINGERS; DOOR TRIM, EXPOSED INTERIOR STRUCTURE
PT-3A	PAINT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC LATEX; EGGSHELL	SW 6711 PARAKEET	ACCENT PAINT
PT-3B	PAINT	SHERWIN WILLIAMS	WATER BASED CATALYZED EPOXY; EGGSHELL	SW 6711 PARAKEET	ACCENT PAINT; DINING
PT-4	PAINT	SHERWIN WILLIAMS	PRO-INDUSTRIAL ACRYLIC SEMI GLOSS	SW 6643 YAM	COMMUNITY STAIR: STAIR RAILINGS, HANDRAIL

SIGN TYPE	ID #	SYMBOL	SIGN TEXT	NUMBER OF SIGNS
D	1002A	X	RESTROOM	1
C	1002B	X	GIRLS	4
C	1002C	X	BOYS	1
A	1100C		SCHOOL OFFICE	1
A	1101		PARENT CENTER	1
A	1102		RECEPTION	1
A	1103		WORKROOM	1
A	1104		OFFICE	1
A	1105		SECURED RECORDS	1
A	1106		OFFICE	1
A	1107		STORAGE	1
A	1108		ASSISTANT PRINCIPAL	1
A	1110		STORAGE	1
A	1112		PRINCIPAL OFFICE	1
A	1114		CONFERENCE ROOM	1
D	1115		STAFF TOILET	1
A	1116		GUIDANCE	1
D	1117	X	STAFF TOILET	1
A	1118		NURSE	1
D	1118B	X	TOILET	1
A	1119		BOOK STORAGE	1
A	1120		IN-SCHOOL SUSPENSION	1
A	1121		RESOURCE OFFICER	1
A	1122		IT MDF	1
A	1201		GYM	3
A	1202		SNACK BAR	1
A	1203		STORAGE	2
A	1204		BACK OF STAGE	2
A	1205A		GIRLS LOCKER	1
A	1205A		GIRLS DRESSING ROOM	1
D	1206B	X	TOILET	1
A	1207		OFFICE	1
A	1208A		BOYS DRESSING ROOM	1
D	1208B	X	TOILET	1
A	1209		STORAGE	2
A	1210		LIFT	1
A	1212		ROOF ACCESS	1
A	1213A		BOYS LOCKER	1
A	1302		DINING	1
A	1308		KITCHEN	2
A	1309		OFFICE	1
A	1310		WARE WASHING	1
A	1312		DRY-STORAGE	1
A	1313		LOCKERS	1
D	1313A	X	TOILET	1
A	1319		ELECTRICAL	1
A	1400		CORRIDOR	1
A	1402		CTE	1
A	1404		CTE	1
A	1406		VOCAL MUSIC	1
A	1408		DIRECTOR	1
A	1410		STORAGE	1
A	1412		INSTRUMENTAL MUSIC	1
A	1413		ART	1
A	1414		STORAGE	1
A	1415		ART STORAGE	1
A	1416		DIRECTOR	1
A	1417		KILN	1

SIGN TYPE	ID #	SYMBOL	SIGN TEXT	NUMBER OF SIGNS
A	1418		STORAGE	1
A	1501		MEDIA CENTER	4
A	1503		MEDIA XX	2
A	1505		OFFICE	1
A	1507		STORAGE	1
A	1508		WORKROOM	1
WF	1700		SOUTH WING	1
B	1702		MS.XXX	1
B	1703		MS.XXX	1
B	1704		MS.XXX	1
A	1705		SCIENCE LAB	2
A	1706		RESOURCE ROOM	1
A	1707		JANITOR	1
B	1708		MS.XXX	1
A	1709		PREP	2
B	1710		MS.XXX	1
A	1711		SCIENCE LAB	2
E1	1712	X	STAIR	1
WF	1800A		EAST WING	1
WF	1800B		EXCEPTIONAL CHILDREN WING	1
C	1802B	X	BOYS	1
C	1802C	X	GIRLS	1
A	1803		ELECTRICAL	1
D	1804	X	STAFF TOILET	1
E1	1805	X	STAIR	1
D	1806		STAFF TOILET	1
A	1807		RESOURCE ROOM	2
A	1808		TEACHER WORKROOM	1
A	1809		MAKER SPACE	3
A	1810		IDF	1
A	1811		SPECIAL EDUCATION	1
A	1811A		T/O	1
A	1812		RESOURCE ROOM	2
A	1813	X	TOILET/SHOWER	1
A	1814		OFFICE	1
A	1815		SPECIAL EDUCATION	1
A	1815A		T/O	1
A	1816		OFFICE	1
A	1818		STORAGE	1
A	1820		OFFICE	1
A	1822		OFFICE	1

SIGN TYPE	ID #	SYMBOL	SIGN TEXT	NUMBER OF SIGNS
A	1824		WORKROOM	1
A	1826		CUSTODIAL WORKROOM	1
E1	1828	X	STAIR	1
WF	2700		SOUTH WING	1
B	2702		MS.XXX	1
B	2703		MS.XXX	1
B	2704		MS.XXX	1
A	2705		SCIENCE LAB	2
A	2706		TEACHER WORKROOM	1
A	2707		ELECTRICAL	1
B	2708		MS.XXX	1
A	2709		PREP	2
B	2710		MS.XXX	1
A	2711		SCIENCE LAB	2
E1	2712		STAIR	1
WF	2800		EAST WING	1
D	2802A	X	STAFF TOILET	1
C	2802B	X	BOYS	1
C	2802C	X	GIRLS	1
A	2803		RESOURCE ROOM	1
D	2804	X	STAFF TOILET	1
A	2805		OFFICE	1
A	2806		ELECTRICAL	1
B	2807		MS.XXX	1
A	2808		TEACHER WORKROOM	1
B	2809		MS.XXX	1
A	2810		IDF	1
A	2812		SCIENCE LAB	1
B	2813		MS.XXX	1
A	2814		JANITOR	1
A	2816		PREP	2
B	2817		MS.XXX	1
A	2818		SCIENCE LAB	2
B	2819		MS.XXX	1
A	2828		ROOF ACCESS	1
E1	2828	X	STAIR	1
E2	EV1	X	ELEVATOR	2

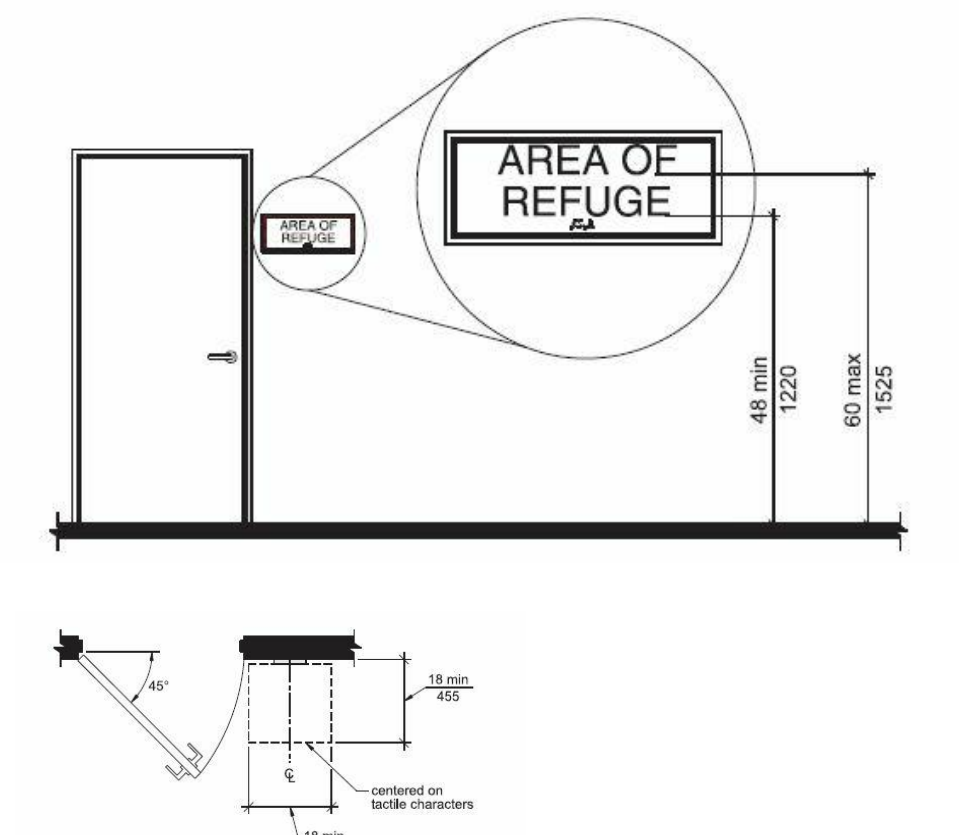
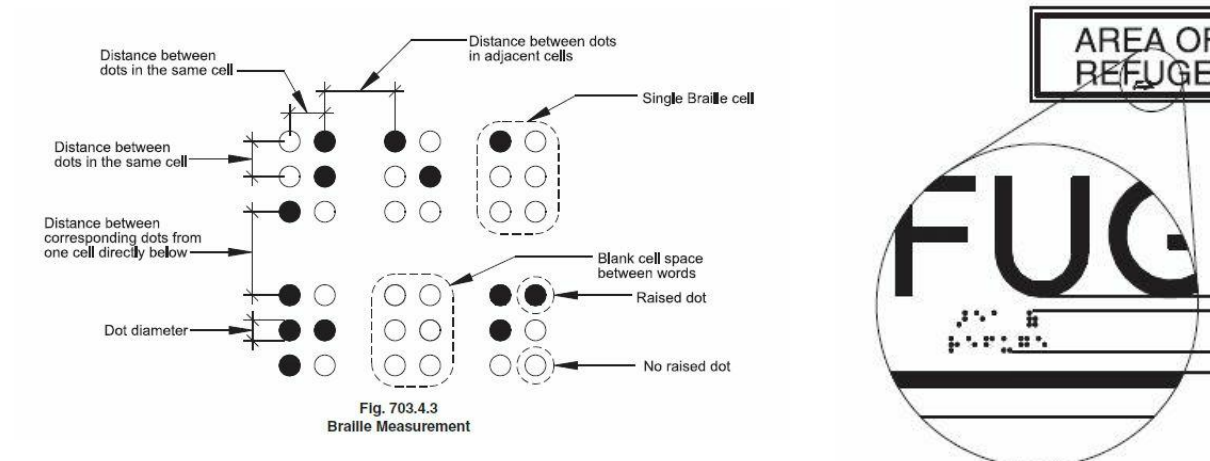
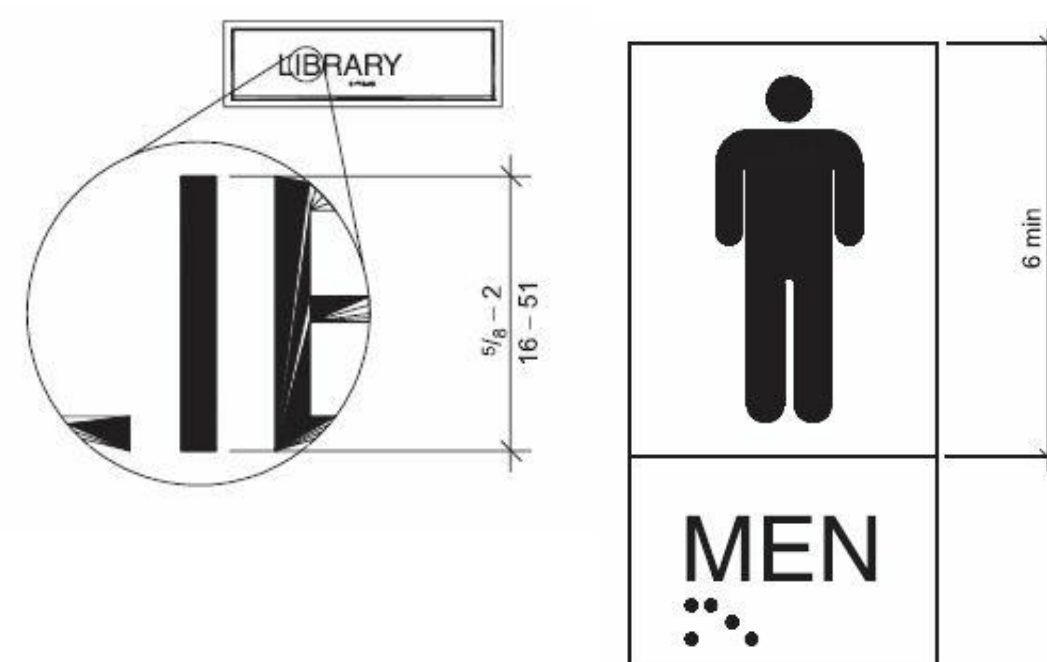
SEE FINISH PLANS A-800'S FOR SIGN LOCATIONS

Table 703.2.4—Visual Character Height

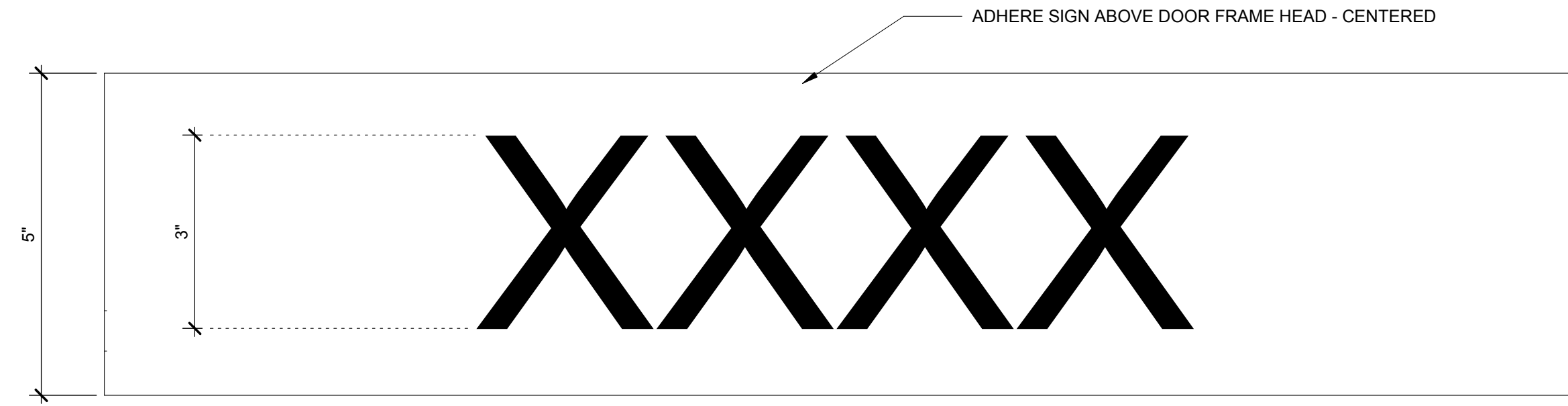
Height above Floor to Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	Less than 6 feet (1830 mm)	1/4 inch (6 mm)
	6 feet (1830 mm) and greater	1/8 inch (3.2 mm), plus 1/32 inch (0.8 mm) per foot (305 mm) of viewing distance above 6 feet (1830 mm)
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	Less than 15 feet (4570 mm)	2 inches (51 mm)
	15 feet (4570 mm) and greater	2 inches (51 mm), plus 1/32 inch (0.8 mm) per foot (305 mm) of viewing distance above 15 feet (4570 mm)
Greater than 120 inches (3050 mm)	Less than 21 feet (6400 mm)	3 inches (76 mm)
	21 feet (6400 mm) and greater	3 inches (76 mm), plus 1/32 inch (0.8 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)

Table 703.4.3—Braille Dimensions

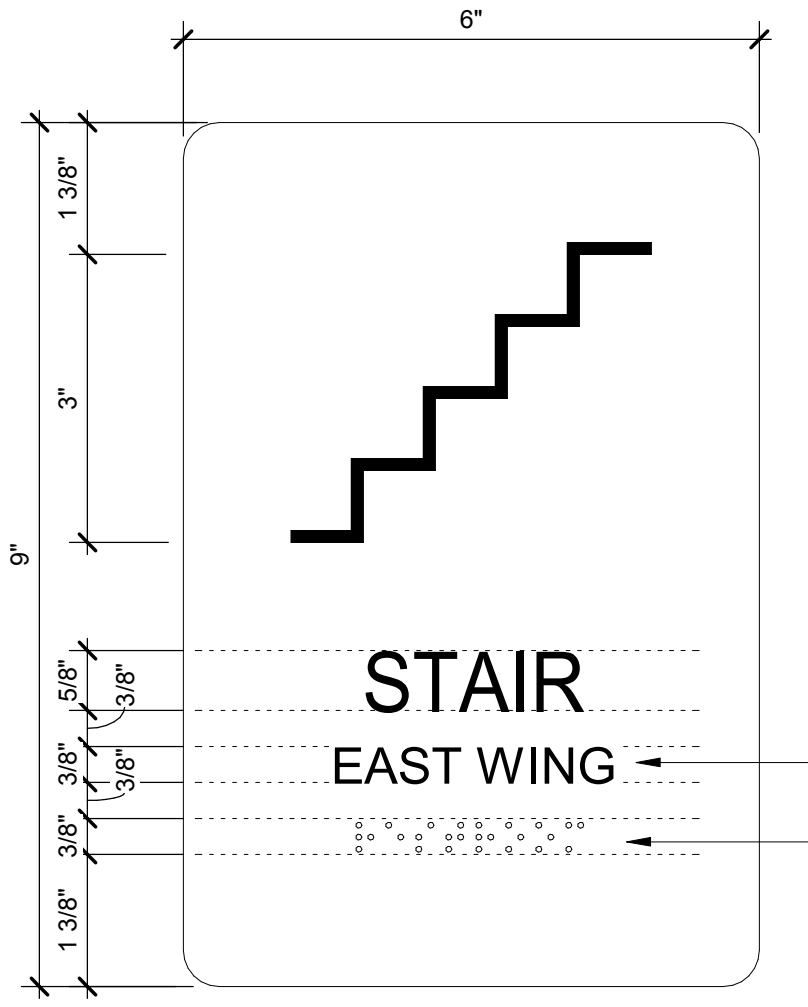
Measurement range	Minimum in inches	Maximum in inches
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)	
Distance between two dots in the same cell	0.090 (2.3 mm) to 0.100 (2.5 mm)	
Distance between corresponding dots in adjacent cells	0.241 (6.1 mm) to 0.300 (7.6 mm)	
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)	
Distance between corresponding dots from one cell directly below	0.395 (10.0 mm) to 0.400 (10.2 mm)	



SIGN LOCATION AND REQUIREMENTS (K1)



SIGN TYPE EWF (EMERGENCY WAY FINDING) (H1)

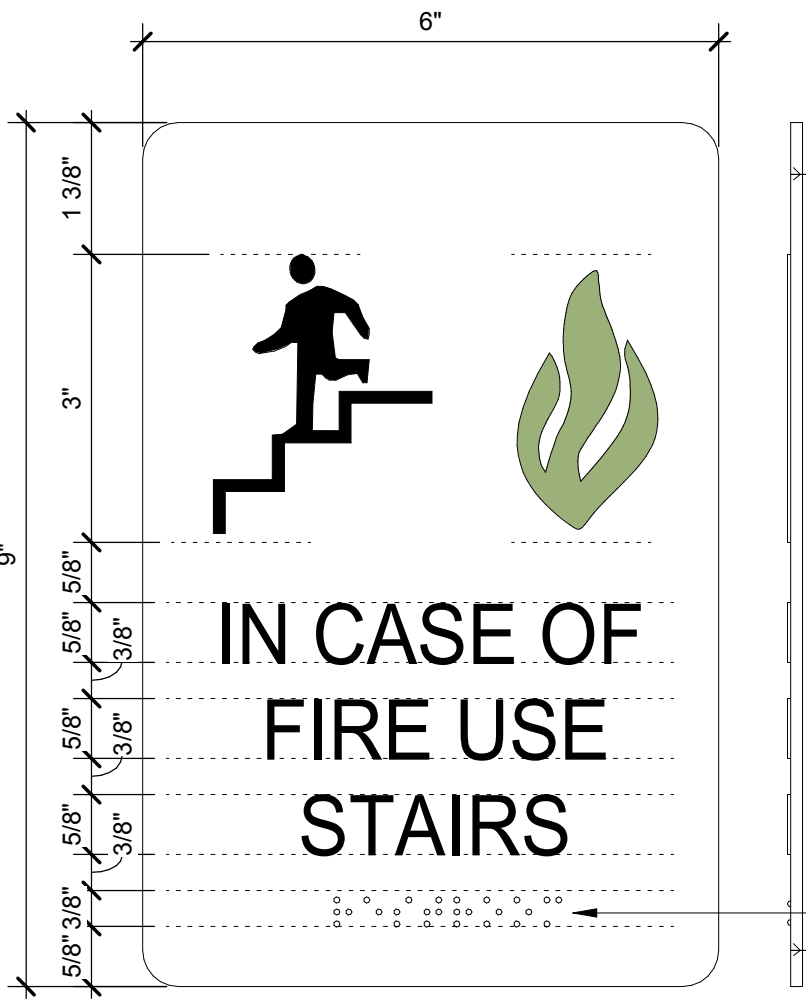


SIGN TYPE E-1 - STAIR SIGN
6' x 9'

SIGN CONSTRUCTION:

- 1/8" THICK ENGRAVING STOCK
- 1/16" ENGRAVED RULE LINE BORDER
- 1/16" ENGRAVED STAIR STEPS
- 5/8" HELVETICA MEDIUM STAIR TEXT, ALL CAPS, RAISED 1/32"
- 3/8" HELVETICA MEDIUM STAIR INDICATOR, ALL CAPS, RAISED 1/32"
- 1/16" RAISED (THE BRAILLE BEADS) GRADE II BRAILLE
- 3/8" RADIUS CORNERS
- MECHANICALLY FASTEN TO WALLS - MOUNT 60" FROM TOP OF SIGN TO FINISH FLOOR AND INSTALL AS DIRECTED IN FIELD

SIGN TYPE E1 (E12)

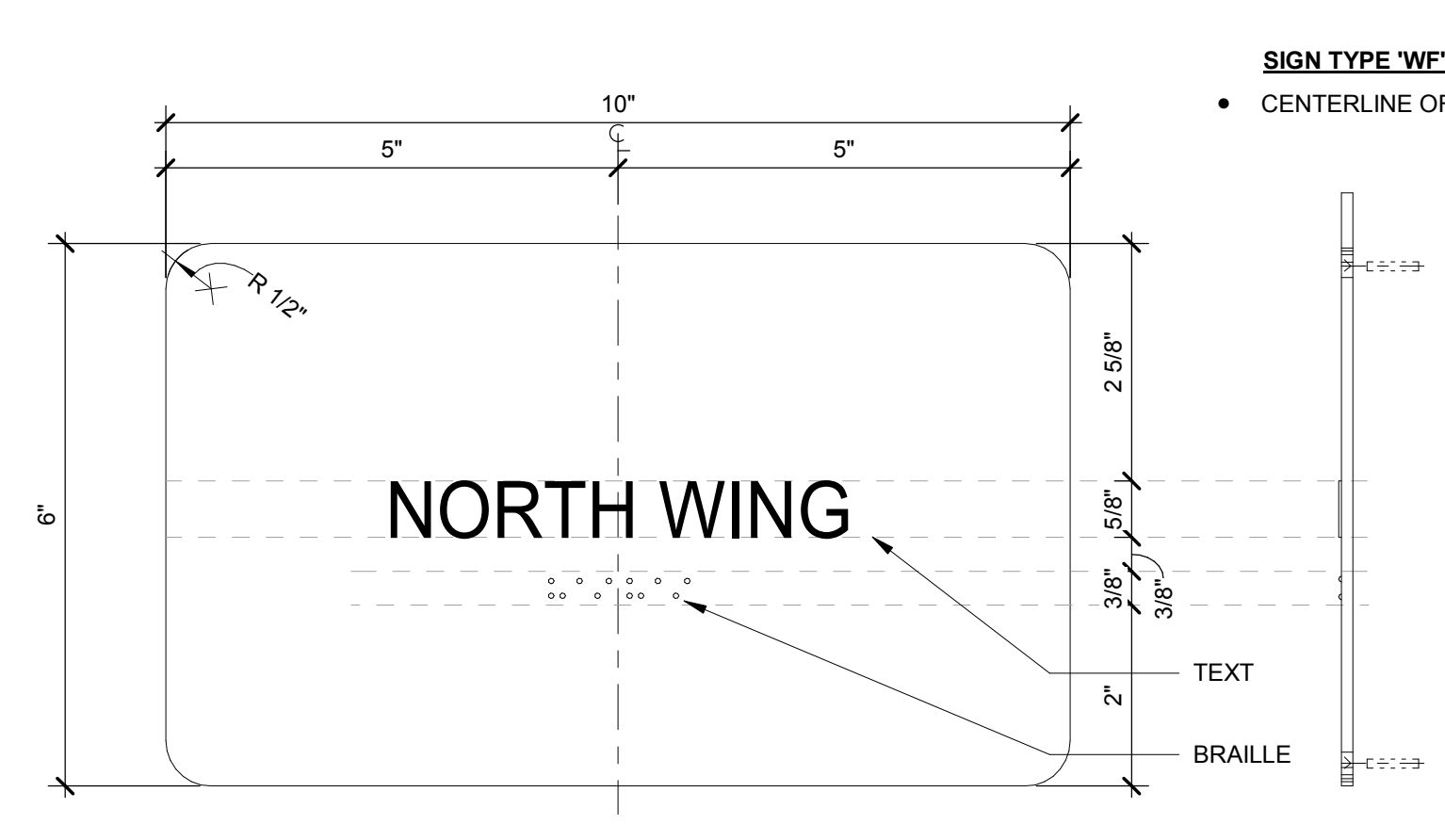


SIGN TYPE E-2 - ELEVATOR SIGN
6' x 9'

SIGN CONSTRUCTION:

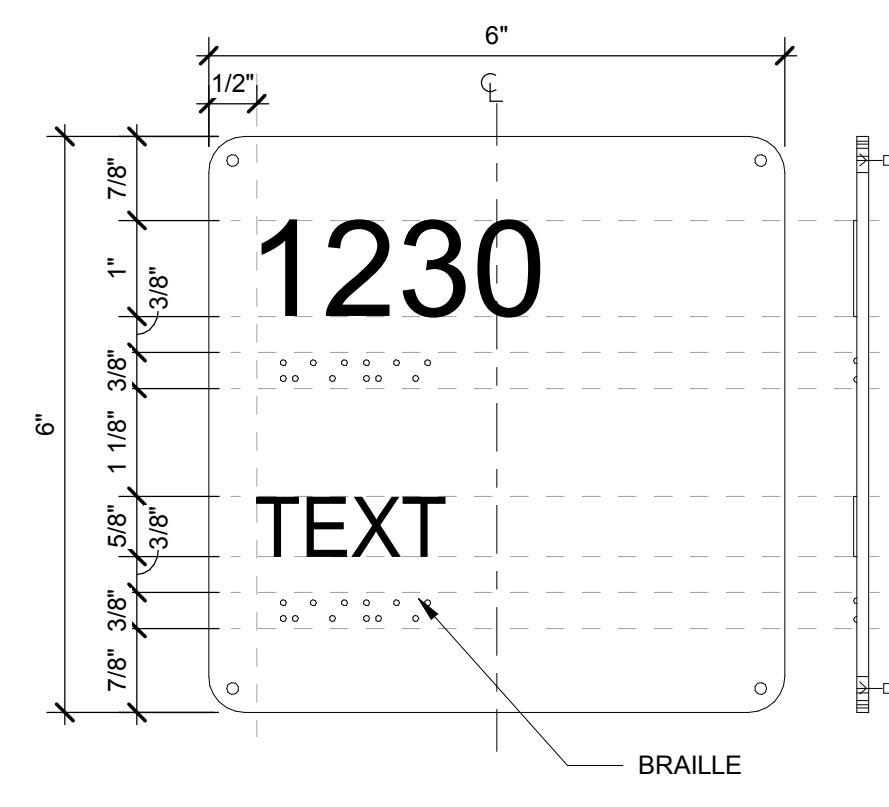
- 1/8" THICK ENGRAVING STOCK WITH SQUARE CORNERS
- 5/8" HELVETICA MEDIUM TEXT, ALL CAPS, RAISED 1/32"
- 3" STAIR EGRESS SYMBOL, RAISED 1/32"
- 2 5/8" FIRE SYMBOL, RAISED 1/32"
- MECHANICALLY FASTEN TO WALLS - MOUNT 60" FROM TOP OF SIGN TO FINISH FLOOR AND INSTALL AS DIRECTED IN FIELD

SIGN TYPE E2 (E7)



SIGN TYPE 'WF' - WAYFINDING SIGN
• CENTERLINE OF SIGN AT 48" A.F.F.

SIGN TYPE WF (E1)

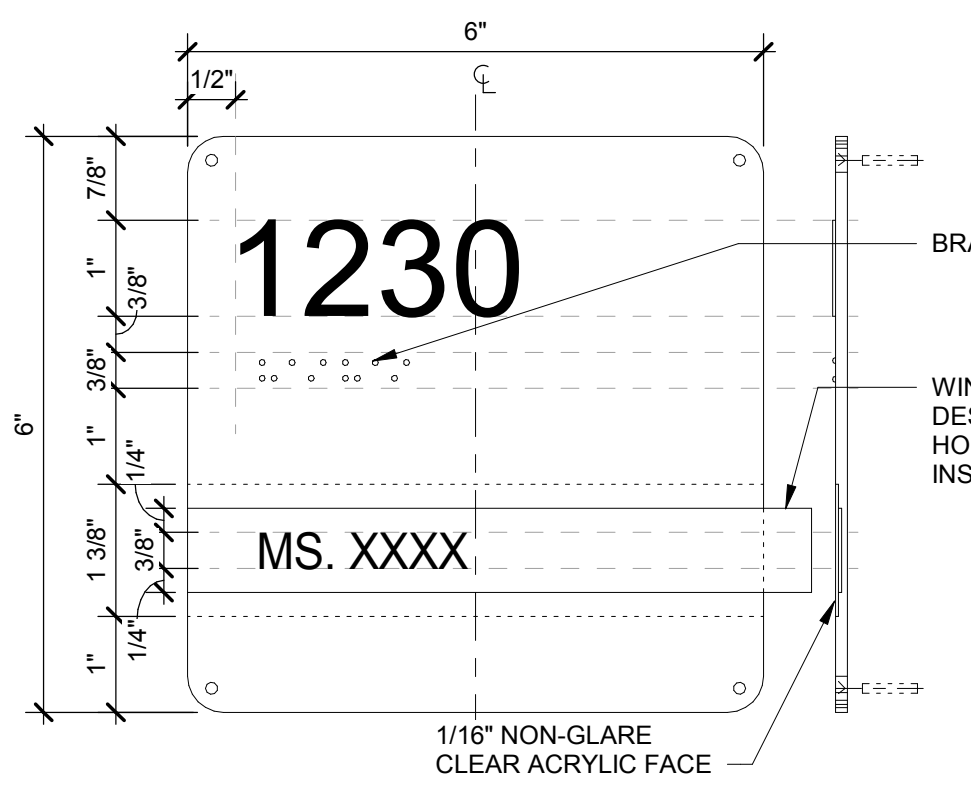


SIGN TYPE 'A' ROOM NAME, NUMBER, & BRAILLE SIGN
6' x 6'

SIGN CONSTRUCTION:

- 3/8" RAISED (THE BRAILLE BEADS) GRADE II BRAILLE
- MECHANICALLY FASTEN TO WALLS - MOUNT 60" FROM TOP OF SIGN TO FINISH FLOOR AND 4" FROM DOOR FRAME ON LATCH SIDE OF DOOR

SIGN TYPE A (A16)

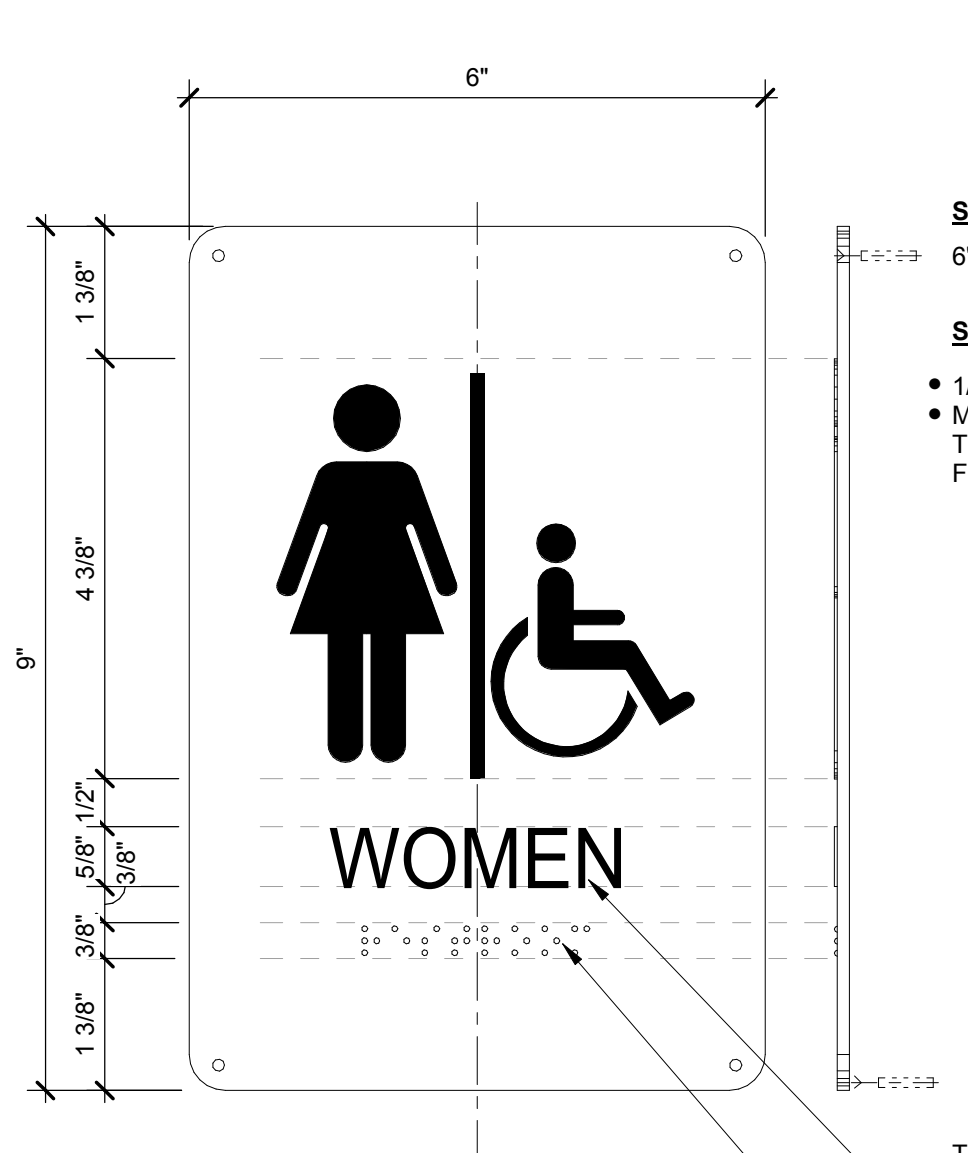


SIGN TYPE 'B' TEMPORARY ROOM NAME, NUMBER, & BRAILLE SIGN
6' x 6'

SIGN CONSTRUCTION:

- 3/8" RAISED (THE BRAILLE BEADS) GRADE II BRAILLE
- MECHANICALLY FASTEN TO WALLS - MOUNT 60" FROM TOP OF SIGN TO FINISH FLOOR AND 4" FROM DOOR FRAME ON LATCH SIDE OF DOOR

SIGN TYPE B (A10)



SIGN TYPE 'C' COMMON RESTROOM SIGN
6' x 9'

SIGN CONSTRUCTION:

- 1/16" RAISED (THE BRAILLE BEADS) GRADE II BRAILLE
- MECHANICALLY FASTEN TO WALLS - MOUNT 60" FROM TOP OF SIGN TO FINISH FLOOR AND 4" FROM DOOR FRAME ON LATCH SIDE OF DOOR

SIGN TYPE C (A5)



SIGN TYPE 'D' MULTI GENDER RESTROOM SIGN
6' x 6'

SIGN CONSTRUCTION:

- 1/16" RAISED (THE BRAILLE BEADS) GRADE II BRAILLE
- MECHANICALLY FASTEN TO WALLS - MOUNT 60" FROM TOP OF SIGN TO FINISH FLOOR AND 4" FROM DOOR FRAME ON LATCH SIDE OF DOOR

SIGN TYPE D (A1)

ARCHITECT

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KEY PLAN

AREA A
AREA Bn GYM
AREA Bs MEDIA
AREA C

REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: SIGNAGE SCHEDULE & DETAILS
SHEET NUMBER: A-861



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www.ctengineering.com

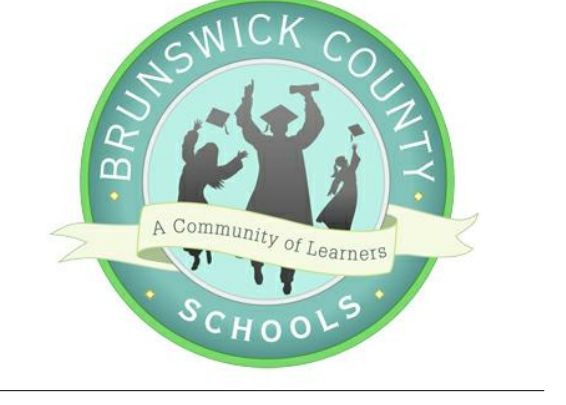
MEP Engineer
KSO DESIGN
1930 CAMDEN ROAD, SUITE 260
CHARLOTTE, NC 28203
704.364.3400 office
www.ksqdesign.com

Electrical Consultant
QUALITY CONSULTING ENGINEERS, PLLC
6277-600 CAROLINA COMMONS DRIVE,
#350 INDIAN LAND SC 29707
803.237.5450 office
djohnes@qualityconsultingengineers.com

Acoustic & Technology Consultant
THORBURN ASSOCIATES
401 N. TYRON STREET, 10TH FLOOR
CHARLOTTE, NC 28202
910.888.7626 office
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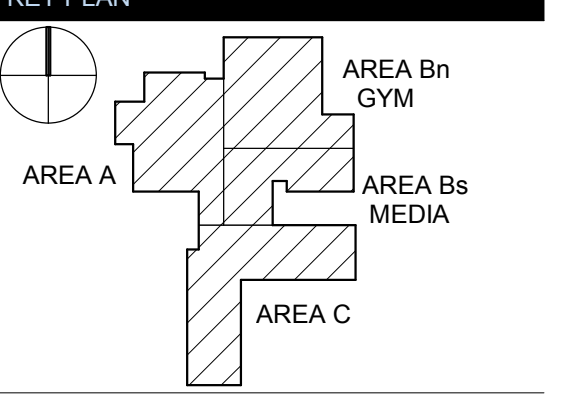
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SKA ENGINEERING
7741 MARKET STREET, SUITE F
WILMINGTON, NC 28411-9444
910.442.2000 office
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WINNABOW, NC 28479



REVISIONS table with columns: No., Description, Date. Revision 1: Addendum #1, 6-7-2018.

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE:
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GYM - AREA B NORTH</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-121Bs</td><td>ROOF FRAMING PLAN - AREA B SOUTH</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-121C</td><td>ROOF FRAMING PLAN - AREA C</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-501</td><td>FOUNDATION DETAILS AND SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-502</td><td>FOUNDATION DETAILS AND SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-503</td><td>BRACE DETAILS & BRACING ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-504</td><td>BRACING ELEVATIONS CONT.</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-505</td><td>MASONRY SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-506</td><td>STAGE FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-507</td><td>TYPICAL FLOOR FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-508</td><td>MISCELLANEOUS FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-509</td><td>ROOF FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-510</td><td>ROOF FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-511</td><td>ROOF FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-512</td><td>ROOF FRAMING SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>S-513</td><td>ROOF FRAMING SECTIONS</td> </tr> <tr> <td colspan="7">ARCHITECTURAL</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-011</td><td>ARCHITECTURAL SITE PLAN</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-100</td><td>OVERALL FLOOR PLANS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-101A</td><td>FLOOR PLAN LEVEL 1 - 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STAGE</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-551</td><td>CEILING DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-601</td><td>DOOR SCHEDULE</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-611</td><td>DOOR DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-612</td><td>DOOR DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-621</td><td>GLAZING SCHEDULE</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-622</td><td>GLAZING SCHEDULE</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-631</td><td>GLAZING DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-632</td><td>EXTERIOR OPENING DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-701</td><td>STAIR PLAN & SECTIONS - SOUTH STAIR</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-702</td><td>STAIR PLAN & SECTIONS - EAST STAIR</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-703</td><td>STAIR PLAN & SECTIONS - COMMUNITY STAIR</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-711</td><td>STAIR DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-721</td><td>ELEVATOR PLANS AND SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-801</td><td>INTERIOR ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-802</td><td>INTERIOR ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-803</td><td>INTERIOR ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-804</td><td>INTERIOR ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-805</td><td>INTERIOR ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-806</td><td>INTERIOR ELEVATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-811</td><td>MILLWORK / CASEWORK SECTIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-830</td><td>OVERALL FINISH FLOOR PLANS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831A</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA A</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831Bn</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA B GYM</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831Bs</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA B MEDIA</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-831C</td><td>FINISH FLOOR PLAN LEVEL 1 - AREA C</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-832C</td><td>FINISH FLOOR PLAN LEVEL 2 - AREA C</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-841</td><td>INTERIOR FINISH LEGEND & SCHEDULES</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-861</td><td>SIGNAGE SCHEDULE & DETAILS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>A-871</td><td>FURNITURE PLANS</td> </tr> </tbody> </table> </div> <div style="width: 48%;"> <h3 style="text-align: center;">SHEET INDEX - VOL II</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Issue Addendum</th> <th style="width: 15%;">Issue Addendum</th> <th style="width: 15%;">CD Issue</th> <th style="width: 15%;">DD Issue</th> <th style="width: 15%;">SD Issue</th> <th style="width: 15%;">Sheet Number</th> <th style="width: 20%;">Sheet Name</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>05-24-2018</td> <td>04-24-2018</td> <td>04-24-2017</td> <td></td> <td></td> </tr> <tr> <td colspan="7">GENERAL</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>G-000b</td><td>COVER SHEET VOLUME 2</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>G-001b</td><td>SHEET INDEX</td> </tr> <tr> <td colspan="7">MECHANICAL</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-001</td><td>MECHANICAL SYMBOLS & LEGEND</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-002</td><td>OUTDOOR AIR CALCULATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-003</td><td>OUTDOOR AIR CALCULATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-004</td><td>OUTDOOR AIR CALCULATIONS</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>M-101A</td><td>DUCTWORK FLOOR PLAN - 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LEVEL 1 - AREA A</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FP-101Bn</td><td>FIRE PROTECTION - LEVEL 1 - AREA B GYM</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FP-101Bs</td><td>FIRE PROTECTION - LEVEL 1 - AREA B MEDIA</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FP-101C</td><td>FIRE PROTECTION - LEVEL 1 - AREA C</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FP-102C</td><td>FIRE PROTECTION - LEVEL 2 - AREA C</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FP-401</td><td>FIRE PROTECTION DETAILS</td> </tr> <tr> <td colspan="7">FOOD SERVICE</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FS-100</td><td>Food Service Equipment Plan</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FS-200</td><td>Food Service Equipment Schedules</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FS-300</td><td>Food Service Mechanical/Plumbing Rough-Ins Plan</td> </tr> <tr> <td>■</td><td>■</td><td>■</td><td>■</td><td>■</td><td>FS-400</td><td>Food Service Electrical Rough-Ins Plan</td> </tr> <tr> <td>■</</td></tr></tbody></table></div></div>																		Issue Addendum	Issue Addendum	CD Issue	DD Issue	SD Issue	Sheet Number	Sheet Name	2	1	05-24-2018	04-24-2018	04-24-2017			GENERAL							■	■	■	■	■	G-000a	COVER SHEET VOLUME 1	■	■	■	■	■	G-001a	SHEET INDEX	■	■	■	■	■	G-021	BUILDING CODE ANALYSIS	■	■	■	■	■	G-031	GENERAL NOTES / ABBREVIATIONS / LEGENDS AND SYMBOLS	■	■	■	■	■	G-041	INTERIOR WALL TYPES	■	■	■	■	■	G-042	PARTITION DETAILS	■	■	■	■	■	G-051	ACCESSIBILITY COMPLIANCE DIAGRAMS	■	■	■	■	■	G-100	LIFE SAFETY PLAN LEVEL 1 & 2	STRUCTURAL							■	■	■	■	■	S-001	GENERAL NOTES	■	■	■	■	■	S-002	SPECIAL INSPECTION NOTES	■	■	■	■	■	S-003	DIAGRAM PLANS - DECK ATTACHMENT	■	■	■	■	■	S-004	ELEVATIONS - COMPONENTS AND GLAZING WALL WIND ZONES	■	■	■	■	■	S-101A	FOUNDATION PLAN - AREA A	■	■	■	■	■	S-101Bn	FOUNDATION PLAN - GYM - AREA B NORTH	■	■	■	■	■	S-101Bs	FOUNDATION PLAN - AREA B SOUTH	■	■	■	■	■	S-101C	FOUNDATION PLAN - AREA C	■	■	■	■	■	S-102Bn	STAGE FRAMING ENLARGED PLAN	■	■	■	■	■	S-111C	SECOND FLOOR FRAMING PLAN - AREA C	■	■	■	■	■	S-121A	ROOF FRAMING PLAN - AREA A	■	■	■	■	■	S-121Bn	ROOF FRAMING PLAN - GYM - AREA B NORTH	■	■	■	■	■	S-121Bs	ROOF FRAMING PLAN - AREA B SOUTH	■	■	■	■	■	S-121C	ROOF FRAMING PLAN - AREA C	■	■	■	■	■	S-501	FOUNDATION DETAILS AND SECTIONS	■	■	■	■	■	S-502	FOUNDATION DETAILS AND SECTIONS	■	■	■	■	■	S-503	BRACE DETAILS & BRACING ELEVATIONS	■	■	■	■	■	S-504	BRACING ELEVATIONS CONT.	■	■	■	■	■	S-505	MASONRY SECTIONS	■	■	■	■	■	S-506	STAGE FRAMING SECTIONS	■	■	■	■	■	S-507	TYPICAL FLOOR FRAMING SECTIONS	■	■	■	■	■	S-508	MISCELLANEOUS FRAMING SECTIONS	■	■	■	■	■	S-509	ROOF FRAMING SECTIONS	■	■	■	■	■	S-510	ROOF FRAMING SECTIONS	■	■	■	■	■	S-511	ROOF FRAMING SECTIONS	■	■	■	■	■	S-512	ROOF FRAMING SECTIONS	■	■	■	■	■	S-513	ROOF FRAMING SECTIONS	ARCHITECTURAL							■	■	■	■	■	A-011	ARCHITECTURAL SITE PLAN	■	■	■	■	■	A-100	OVERALL FLOOR PLANS	■	■	■	■	■	A-101A	FLOOR PLAN LEVEL 1 - AREA A	■	■	■	■	■	A-101Bn	FLOOR PLAN LEVEL 1 - AREA Bn GYM	■	■	■	■	■	A-101Bs	FLOOR PLAN LEVEL 1 - AREA Bs MEDIA	■	■	■	■	■	A-101C	FLOOR PLAN LEVEL 1 - AREA C	■	■	■	■	■	A-102C	FLOOR PLAN LEVEL 2 - AREA C	■	■	■	■	■	A-110	OVERALL REFLECTED CEILING PLAN LEVEL 1	■	■	■	■	■	A-111A	REFLECTED CEILING PLAN LEVEL 1 - AREA A	■	■	■	■	■	A-111Bn	REFLECTED CEILING PLAN LEVEL 1 - AREA Bn GYM	■	■	■	■	■	A-111Bs	REFLECTED CEILING PLAN LEVEL 1 - AREA Bs MEDIA	■	■	■	■	■	A-111C	REFLECTED CEILING PLAN LEVEL 1 - AREA C	■	■	■	■	■	A-112C	REFLECTED CEILING PLAN LEVEL 2 - AREA C	■	■	■	■	■	A-121	OVERALL ROOF PLAN	■	■	■	■	■	A-200	EXTERIOR BUILDING ELEVATIONS	■	■	■	■	■	A-210	GYM & ENTRY AXON & SECTIONS	■	■	■	■	■	A-211	DINING & MEDIA SLOPED ROOF AXON & SECTIONS	■	■	■	■	■	A-290	EXTERIOR BUILDING PERSPECTIVES	■	■	■	■	■	A-291	EXTERIOR BUILDING PERSPECTIVE ELEVATIONS	■	■	■	■	■	A-301	OVERALL BUILDING LONGITUDINAL SECTIONS	■	■	■	■	■	A-302	OVERALL BUILDING CROSS SECTIONS	■	■	■	■	■	A-305	ENLARGED BUILDING SECTIONS	■	■	■	■	■	A-306	ENLARGED BUILDING SECTIONS	■	■	■	■	■	A-310	WALL SECTIONS - GYM	■	■	■	■	■	A-311	WALL SECTIONS - STAGE	■	■	■	■	■	A-313	WALL SECTIONS - ADMIN, DINING	■	■	■	■	■	A-314	WALL SECTIONS - DINING, WEST ENTRY	■	■	■	■	■	A-315	WALL SECTIONS - FIRE WALL, MEDIA	■	■	■	■	■	A-316	WALL SECTIONS - MUSIC WING	■	■	■	■	■	A-317	WALL SECTIONS - WEST EXIT DOORS OVERHANG	■	■	■	■	■	A-318	WALL SECTIONS - CLASSROOM WING	■	■	■	■	■	A-320	CANOPY SECTIONS	■	■	■	■	■	A-401	ENLARGED FLOOR PLANS	■	■	■	■	■	A-402	ENLARGED FLOOR PLANS	■	■	■	■	■	A-403	ENLARGED FLOOR PLANS	■	■	■	■	■	A-404	ENLARGED FLOOR PLANS	■	■	■	■	■	A-501	EXTERIOR SECTION DETAILS	■	■	■	■	■	A-502	EXTERIOR SECTION DETAILS	■	■	■	■	■	A-511	EXTERIOR PLAN DETAILS	■	■	■	■	■	A-512	EXTERIOR PLAN DETAILS	■	■	■	■	■	A-513	EXTERIOR PLAN DETAILS	■	■	■	■	■	A-514	EXTERIOR PLAN DETAILS	■	■	■	■	■	A-521	ROOF DETAILS	■	■	■	■	■	A-522	ROOF DETAILS	■	■	■	■	■	A-531	INTERIOR SECTION DETAILS - STAGE	■	■	■	■	■	A-551	CEILING DETAILS	■	■	■	■	■	A-601	DOOR SCHEDULE	■	■	■	■	■	A-611	DOOR DETAILS	■	■	■	■	■	A-612	DOOR DETAILS	■	■	■	■	■	A-621	GLAZING SCHEDULE	■	■	■	■	■	A-622	GLAZING SCHEDULE	■	■	■	■	■	A-631	GLAZING DETAILS	■	■	■	■	■	A-632	EXTERIOR OPENING DETAILS	■	■	■	■	■	A-701	STAIR PLAN & SECTIONS - SOUTH STAIR	■	■	■	■	■	A-702	STAIR PLAN & SECTIONS - EAST STAIR	■	■	■	■	■	A-703	STAIR PLAN & SECTIONS - COMMUNITY STAIR	■	■	■	■	■	A-711	STAIR DETAILS	■	■	■	■	■	A-721	ELEVATOR PLANS AND SECTIONS	■	■	■	■	■	A-801	INTERIOR ELEVATIONS	■	■	■	■	■	A-802	INTERIOR ELEVATIONS	■	■	■	■	■	A-803	INTERIOR ELEVATIONS	■	■	■	■	■	A-804	INTERIOR ELEVATIONS	■	■	■	■	■	A-805	INTERIOR ELEVATIONS	■	■	■	■	■	A-806	INTERIOR ELEVATIONS	■	■	■	■	■	A-811	MILLWORK / CASEWORK SECTIONS	■	■	■	■	■	A-830	OVERALL FINISH FLOOR PLANS	■	■	■	■	■	A-831A	FINISH FLOOR PLAN LEVEL 1 - AREA A	■	■	■	■	■	A-831Bn	FINISH FLOOR PLAN LEVEL 1 - AREA B GYM	■	■	■	■	■	A-831Bs	FINISH FLOOR PLAN LEVEL 1 - AREA B MEDIA	■	■	■	■	■	A-831C	FINISH FLOOR PLAN LEVEL 1 - AREA C	■	■	■	■	■	A-832C	FINISH FLOOR PLAN LEVEL 2 - AREA C	■	■	■	■	■	A-841	INTERIOR FINISH LEGEND & SCHEDULES	■	■	■	■	■	A-861	SIGNAGE SCHEDULE & DETAILS	■	■	■	■	■	A-871	FURNITURE PLANS	Issue Addendum	Issue Addendum	CD Issue	DD Issue	SD Issue	Sheet Number	Sheet Name	2	1	05-24-2018	04-24-2018	04-24-2017			GENERAL							■	■	■	■	■	G-000b	COVER SHEET VOLUME 2	■	■	■	■	■	G-001b	SHEET INDEX	MECHANICAL							■	■	■	■	■	M-001	MECHANICAL SYMBOLS & LEGEND	■	■	■	■	■	M-002	OUTDOOR AIR CALCULATIONS	■	■	■	■	■	M-003	OUTDOOR AIR CALCULATIONS	■	■	■	■	■	M-004	OUTDOOR AIR CALCULATIONS	■	■	■	■	■	M-101A	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	M-101Bn	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	M-101Bs	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	M-101C	DUCTWORK FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	M-102C	DUCTWORK FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	M-121A	MECHANICAL ROOF PLAN - AREA A	■	■	■	■	■	M-121B	MECHANICAL ROOF PLAN - AREA B	■	■	■	■	■	M-121C	MECHANICAL ROOF PLAN AREA C	■	■	■	■	■	M-401	MECHANICAL DETAILS	■	■	■	■	■	M-501	MECHANICAL SCHEDULES	■	■	■	■	■	M-502	MECHANICAL SCHEDULES	ELECTRICAL							■	■	■	■	■	E-001	GENERAL PROJECT INFORMATION	■	■	■	■	■	E-011	ELECTRICAL SITE PLAN	■	■	■	■	■	E-101A	LIGHTING FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	E-101Bn	LIGHTING FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	E-101Bs	LIGHTING FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	E-101C	LIGHTING FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	E-102C	LIGHTING FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	E-111A	POWER FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	E-111Bn	POWER FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	E-111Bs	POWER FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	E-111C	POWER FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	E-112C	POWER FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	E-121A	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	E-121Bn	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	E-121Bs	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	E-121C	COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	E-122C	COMMUNICATION FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	E-131A	POWER PLAN - ROOF - AREA A	■	■	■	■	■	E-131B	POWER PLAN - ROOF - AREA B	■	■	■	■	■	E-131C	POWER PLAN - ROOF - AREA C	■	■	■	■	■	E-201	POWER RISER DIAGRAM	■	■	■	■	■	E-301	ENLARGED POWER FLOOR PLAN - KITCHEN	■	■	■	■	■	E-401	PANELBOARD SCHEDULES	■	■	■	■	■	E-402	PANELBOARD SCHEDULES	■	■	■	■	■	E-403	PANELBOARD SCHEDULES	■	■	■	■	■	E-404	PANELBOARD SCHEDULES	■	■	■	■	■	E-405	PANELBOARD SCHEDULES	■	■	■	■	■	E-406	SCHEDULES	■	■	■	■	■	E-501	DETAILS	PLUMBING							■	■	■	■	■	P-001	GENERAL PROJECT INFORMATION	■	■	■	■	■	P-101A	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	P-101Bn	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	P-101Bs	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	P-101C	WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	P-102C	WASTE AND VENT FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	P-111A	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA A	■	■	■	■	■	P-111Bn	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA B GYM	■	■	■	■	■	P-111Bs	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	P-111C	DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA C	■	■	■	■	■	P-112C	DOMESTIC WATER FLOOR PLAN - LEVEL 2 - AREA C	■	■	■	■	■	P-121A	PLUMBING ROOF PLAN - AREA A	■	■	■	■	■	P-121Bn	PLUMBING ROOF PLAN - AREA B GYM	■	■	■	■	■	P-121Bs	PLUMBING ROOF PLAN - AREA B MEDIA	■	■	■	■	■	P-121C	PLUMBING ROOF PLAN - AREA C	■	■	■	■	■	P-301	ENLARGED PLANS - WASTE AND VENT	■	■	■	■	■	P-302	ENLARGED PLANS - WATER PIPING	■	■	■	■	■	P-303	WASTE AND VENT RISER	■	■	■	■	■	P-401	PLUMBING DETAILS	■	■	■	■	■	P-402	PLUMBING DETAILS	■	■	■	■	■	P-501	PLUMBING SCHEDULES	■	■	■	■	■	P-502	PLUMBING SCHEDULES	FIRE PROTECTION							■	■	■	■	■	FP-001	GENERAL PROJECT INFORMATION	■	■	■	■	■	FP-101A	FIRE PROTECTION - LEVEL 1 - AREA A	■	■	■	■	■	FP-101Bn	FIRE PROTECTION - LEVEL 1 - AREA B GYM	■	■	■	■	■	FP-101Bs	FIRE PROTECTION - LEVEL 1 - AREA B MEDIA	■	■	■	■	■	FP-101C	FIRE PROTECTION - LEVEL 1 - AREA C	■	■	■	■	■	FP-102C	FIRE PROTECTION - LEVEL 2 - AREA C	■	■	■	■	■	FP-401	FIRE PROTECTION DETAILS	FOOD SERVICE							■	■	■	■	■	FS-100	Food Service Equipment Plan	■	■	■	■	■	FS-200	Food Service Equipment Schedules	■	■	■	■	■	FS-300	Food Service Mechanical/Plumbing Rough-Ins Plan	■	■	■	■	■	FS-400	Food Service Electrical Rough-Ins Plan	■</
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APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS EXCEPT 1 & 2 FAMILY DWELLING & TOWNHOUSES

PROJECT DATA:
Name of Project: Town Creek Middle School
Address: 6370 LAKE PARK DRIVE SE WINNABOW, NC 28479
Project Number: 17206.01
Proposed Use: Education / Middle School
Owner or Authorized Agent: Jack Doyle (910) 253-1077; doyle@bcswan.net
Phone No. / Email: Brunswick County School
Owned By: Brunswick County School
Code Enforcement Jurisdiction: City/County Private State County: Brunswick State: North Carolina

LEAD DESIGN PROFESSIONAL: **Mr. Doug Burns, AIA**
DESIGNER FIRM NAME EMAIL
LICENSE PHONE
Architectural KSO Design Doug Burns dburns@ksqdesign.com
6458 704.364.3400
Electrical Quality Consulting Donnie Jones djones@qualityconsultingengineers.com
Engineers, PLLC 803.207.5450
#P-1184
Fire Alarm Quality Consulting Donnie Jones djones@qualityconsultingengineers.com
Engineers, PLLC 803.207.5450
#P-1184
Plumbing KSO Design John Nolting jnolting@ksqdesign.com
041988 704.364.3400
Mechanical KSO Design John Nolting jnolting@ksqdesign.com
041988 704.364.3400
Sprinkler / KSO Design John Nolting jnolting@ksqdesign.com
Standpipe 041988 704.364.3400
Structural Criser Troutman jtroutman@ctengineering.com
Tanner Consulting 910.387.2929
Engineers F-0113

APPLICABLE CODES:
Edition Year of Code: See List Below (NCSCB - NC State Building Code)
NCSCB 2012 Edition for Existing: New Construction Addition Uplift
Reconstruction Alteration Repair
Year: Constructed: 2018 Renewed: _____
Uses(s): (Ch 3) Original: Education Current: Education Proposed: Education

TRADE	CODE	EDITION
General Construction	NCSCB	Building Code 2012
Administration & Enforcement	NCSCB	Administrative Code 2012
Plumbing	NCSCB	Plumbing Code 2012
Mechanical	NCSCB	Mechanical Code 2012
Electrical	National Electrical Code - NFPA 70	2014
Fire Prevention	NCSCB	Fire Prevention Code 2012
Gas	NCSCB	Fuel Gas Code 2012
Energy - Commercial	NCSCB	Energy Conservation Code 2012
Accessibility	NCSCB	Building Code 2012
Special Fire Codes	NFPA 99	2012
Zoning	NFPA 30 A	2012
	Brunswick County	

BUILDING DATA:
Construction Type: Shell I-A II-A III-A IV V-A
I-B II-B III-B V-B
Sprinklers: Shell Building No Partial Yes
NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes
Class: I II III Wet Dry
Fire District: No Yes (Primary)
Flood Hazard Area: No Yes
Building Height: 35'-0" Feet Stories 2

ALLOWABLE AREA:
Primary Occupancy:
Assembly A-1 A-2 A-3 A-4 A-5
Business Educational Factory F-1 (Moderate) F-2 (Low)
Hazardous H-1 (Detonate) H-2 (Deflagrate) H-3 (Combust)
Institutional I-1 I-2 I-3 I-4
I-3 Condition 1 2 3 4 5
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 (Moderate) S-2 (Low) High-Piled
Parking Garage Open Enclosed Repair Garage
Utility & Miscellaneous
Secondary Occupancy:
 Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 (Moderate) F-2 (Low)
 Hazardous H-1 (Detonate) H-2 (Deflagrate) H-3 (Combust)
 H-4 (Health) H-5 (HPM)
 Institutional I-1 I-2 I-3 I-4
I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 (Moderate) S-2 (Low) High-Piled
 Parking Garage Open Enclosed Repair Garage
 Utility & Miscellaneous

Incidental Uses - (Table 508.2.5): N/A
 Furnace room where any piece of equipment is over 400,000 btu / hr input.
 Rooms with boilers where the largest piece of equipment is over 15psi & 10 HP.
 Refrigerant machine room.
 Hydrogen cut-off rooms, not classified as Group H.
 Incinerator rooms.
 Paint shops, not classified as Group H, located in occupancies other than Group F.
 Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy.
 Laundry rooms over 100 square-feet.
 Group I-3 cells equipped with padded surfaces.
 Group I-2 waste & linen collection rooms.
 Waste & linen collection rooms over 100 square-feet.
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 lbs used for facility stand-by power, emergency power or uninterrupted power supplies.
 Rooms containing fire pumps.
 Group I-2 storage rooms over 100 square-feet.
 Group I-2 commercial kitchens.
 Group I-2 laundries equal to or less than 100 square-feet.
 Group I-2 rooms or spaces contain fuel-fired heating equipment.

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (Feet)	RATING REQUIRED	DETAIL AND SHEET NUMBER	DESIGN NUMBER	Rated Penetration (m)	Rated Joints (see Section 078400)
Structural Frame including columns, girders, & trusses	0	0	0			
Bearing walls	0	0	0			
Exterior	≤ 30	0	0	UL U	SEE MEP	SEE MEP
North	≥ 30	0	0	UL U	SEE MEP	SEE MEP
South	≥ 30	0	0	UL U	SEE MEP	SEE MEP
East	≥ 30	0	0	UL U	SEE MEP	SEE MEP
West	≤ 10	0	0	UL U	SEE MEP	SEE MEP
Interior						
Non-bearing walls & Partitions						
Exterior						
North	≥ 30	0	0	N/A	N/A	N/A
South	≥ 30	0	0			
East	≥ 30	0	0			
West	≥ 30	0	0			
Interior						
Floor construction including supporting beams & joists	0	0	0			
Shaft	1	N/A	UL U	SEE MEP	SEE MEP	
EXIT	1	N/A	UL U	SEE MEP	SEE MEP	
Enclosures	1	N/A	UL U	SEE MEP	SEE MEP	
OTHER	1	N/A	UL U	SEE MEP	SEE MEP	
Fire Barriers	N/A	N/A				
Corridor Separation	N/A					
Occupancy Separation	1HR		UL U	SEE MEP	SEE MEP	
Partyfire Wall Separation	N/A					
Smoke Barrier	N/A					
Tenant Separation	N/A					
Fire Partition	1HR		UL U	SEE MEP	SEE MEP	
Smoke Partition	N/A					
Horizontal Assembly	N/A					
Incidental Use Separation	N/A					

Mixed Occupancy:
No Yes
Exception: _____

Incidental Use Separation (508.2.5)
This separation is not exempt as a non-separated use (see exceptions).
Non-Separated Use (508.3 & 508.3.1)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
Separated Use Occupancy (508.4 & 508.4.1)
See below for area calculations. For each story, the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

FLOOR LEVEL	FIRST FLOOR				
	NORTH	SOUTH			
	E	A	E	Total (Less than or equal to 1)	
A - ACTUAL AREA	23,867	17,826	27,200		
B - ALLOWABLE AREA	68,875	45,125	52,340		
A/B	.37 +	.40x1	.52		

Actual Area of Occupancy A Actual Area of Occupancy B
Allowable Area of Occup. A Allowable Area of Occup. B

FLOOR LEVEL	SECOND FLOOR				
	E			Total (Less than or equal to 1)	
A - ACTUAL AREA	22,867				
B - ALLOWABLE AREA	52,486				
A/B	.43				

FLOOR LEVEL THIRD FLOOR N/A

FLOOR LEVEL	THIRD FLOOR				
	E			Total (Less than or equal to 1)	
A - ACTUAL AREA					
B - ALLOWABLE AREA					
A/B					

AREA CALCULATIONS:

Story No.	Description & Use	A Building Area Per Story	B Table 503 Area & 406.3.6	C Area For Frontage Increase	D Area For Sprinkler Increase	E Allowable Area for Unlimited	F Maximum Building Area
	EDUCATION	(Actual)	(Note 5)	(Note 1)	(Note 2)	(Note 3)	(Note 4)
NORTH OF FIRE WALL							
1	FIRST FLOOR	41,692.79	14,500	10,875	43,500	N/A	68,875
SOUTH OF FIRE WALL							
2	SECOND FLOOR	22,366.56	14,500	8,986	29,000	N/A	52,486
1	FIRST FLOOR	27,200.53	14,500	8,840	29,000	N/A	52,340
TOTAL SOUTH BLDG		49,587.09					104,826
TOTAL		91,279.88					173,701

SOUTH BLDG
1. Frontage area increases from Section 506.2 are computed as follows:
a. Perimeter which fronts a public way or open space having 20 foot minimum width: $\frac{802}{100} (F)$ SOUTH BLDG
b. Total Building Perimeter: $\frac{927}{100} (P)$ SOUTH BLDG
c. Ratio (F/P): $\frac{1}{100} (F/P)$
d. Minimum Width of Public Way: $\frac{30}{100} (W)$
e. Percent of Frontage Increase: If $\frac{100(F-P-0.25) \times W}{30} \geq 75\%$ NORTH BLDG
If $\frac{100(F-P-0.25) \times W}{30} \geq 81\%$ SOUTH BLDG

2. The Sprinkler Increase per Section 506.3 is as follows:
a. Multi-Story Building Is = 200%
b. Single-Story Building Is = 300%

3. Unlimited Area applicable under conditions of Sections Group B, F, M, S, A-3, & A-4 (507):
Group A - Motion Picture (507.10):
Covered Mall Buildings (402.6):
H-2 Aircraft Paint hangers (507.8): = NA

4. Maximum Building Area = Total number of stories times "E" (506.4)
Group B, F, M, S, A-3, & A-4 (507):
Group A - Motion Picture (507.10):
Covered Mall Buildings (402.6):
H-2 Aircraft Paint hangers (507.8): = NA

5. Maximum Area of Open Parking Garages must comply with Table 406.3.5, 406.3.6 or Traffic Control Towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT:

Type of Construction	Type IIB	Type IIB	Type IIB	Code Reference
Height in Feet	55'	75'-0"	35'-0"	Table 503 & 504
Height in Stories	2 Stories	3 Stories	2 Stories	Table 503 & 504

STRUCTURAL DESIGN:

DESIGN LOADS:
Importance Factors:
Wind: $I_w = 1.15$
Snow: $I_s = 1.1$
Seismic: $I_s = 1.25$

Live Loads:
Roof: 20 psf
Attic: N/A
Mezzanine: N/A
Floor: CLASSROOM: 80 psf
LOBBIES: 100 psf
CORRIDORS: 100 psf
OFFICE: 50 psf

Ground Snow: 10 psf
Wind Load: Basic Wind Speed 131 mph
Exposure Category: C
Wind Based Shears (for MWFRS)
 $V_x =$ SEE STRUCTURAL DWGS
 $V_y =$ SEE STRUCTURAL DWGS

Seismic Design Category: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5): I II III IV

Spectral Response Acceleration:
 $S_s = 32.3 \%$
 $S_1 = 10.4 \%$
Data Source: Field Test Presumptive Historical Data

Basic Structural System: (check one)
 Bearing Wall Dual w/ special moment frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

Seismic Base Shear: $V_x =$ SEE STRUCTURAL DWGS
 $V_y =$ SEE STRUCTURAL DWGS
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical Components Anchored: No Yes

Lateral Design Control: Earthquake Wind (varies - see structural drawings)

Soil Bearing Capacity: N/A
Field Test (provide Copy of test report): 2000 pcf
Presumptive Bearing Capacity: N/A
Pile size, type & capacity: N/A

SPECIAL INSPECTIONS REQUIRED: No Yes

SPECIAL APPROVALS:
(Local Jurisdiction, Department of Insurance, OSC, DHHS, ICC, etc., describe below)
SEE STRUCTURAL DRAWING 5002 FOR LIST OF SPECIAL INSPECTIONS

SCHEDULE OF SPECIAL INSPECTIONS
 No special inspection required for this project
 Special inspections required

The following sheets comprise the required schedule of Special Inspections for this project. The construction divisions which require special inspection for this project are as follows:

Inspection	Division
IT-1 Verification of Soils	IT-10 Inspection of Structural Steel Fabricators
IT-2 Excavation and Fill	IT-11 Structural Masonry
IT-3 Piling and Drilling Piers	IT-12 Welding
IT-4 Modular Retaining Walls	IT-13 High Strength Bolt & Steel Trussing Insp
IT-5 Reinforced Concrete	IT-14 Sprayed Fire-Resistance Materials
IT-6 Post Tension Slab	IT-15 Exterior Insulation and Finish Systems
IT-7 Precast Concrete Erection	IT-16 Seismic Restraints
IT-8 Pre-tensioned Concrete	IT-17 Smoke Control
IT-9 Inspection of Pre-Cast Fabricators	IT-18 Wood
	IT-19 Special Cases

Check the above boxes for the special inspection required for this project and list below specific special inspections required under Chapter 17. For questions regarding Special Inspections please see www.Meck-SI.com.

EXIT REQUIREMENTS:

Floor, Room, or Space Designation	Minimum # of Exits	Travel Distance	Arrangement Means of Egress (Section 1015.2) See notes 1 & 3
	Required	Allowable Travel Distance (Table 1016.1)	Actual Travel Distance Shown on Plans
SECOND FLOOR	3	250'	226'
FIRST FLOOR / NORTH	3	250'	174'
FIRST FLOOR / SOUTH	3	250'	196'

Notes:
1. Corridor Dead Ends (Section 1018.4)
2. Buildings with Single Exits (1021.2)
3. Common Path of Travel (Section 1014.3)

EXIT WIDTH:

Use Group or Space Description / Occupancy Type	(a) Area (sf) See note 1	(b) Area Per Occupant (Table 1005.1.1) See note 1	(c) Occupant Load	Egress Width per Occupant (Table 1005.1)	Exit Width (in.) See notes 2, 3, 4, 5, & 6	Actual Width Shown on Plans
1ST CLASS RM / -	15,528	20	777	0.3	0.2	156
2ND CLASS RM / -	12,557	20	630	0.3	0.2	189
ADMIN / -	5,294	100	53	0.3	0.2	11
GYM / A-4	8,864	07	1,265	0.3	0.2	253
DINING / A-2	3,750	15	251	0.3	0.2	51
MEDIA CENTER / -	4,139	60	283	0.3	0.2	17
TOTAL	-	-	3,059	0.3	0.2	189

Notes:
1. See Table 1004.1.1 to determine whether Net or Gross area is applicable. See definition "Area Gross" and "Area Net" (Section 1002).
2. Minimum Stairway width (Section 1005.1, 1009.1). Minimum Corridor Width (Section 1018.2); Minimum Door Width (Section 1008.1).
3. Minimum Width of Exit Passageway (Section 1023.2)
4. See Section 1004.5 for covering exits.
5. The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1).

ACCESSIBLE DWELLING UNITS: (SECTION 1107) N/A

Total Units	Accessible Units Required	Accessible Units Provided	Type A Units Required	Type A Units Provided	Total B Units Required	Type B Units Provided	Total Accessible Units Provided

ACCESSIBLE PARKING: (SECTION 1106) SEE CIVIL DWGS.

Lot or Parking Area	Total # of Parking Spaces Required	Total # of Parking Spaces Provided	# of Accessible Parking Spaces Provided	Total # Accessible Provided
Lot 99	133	127	N/A	N/A
Total	99	133	127	N/A

PLUMBING REQUIREMENTS:

Use	Waterclosets	Urinals	Lavatories	Showers / Tubs	Drinking Fountains
CLASS ROOM	New 17	18	1	12	13
REGD.	14	14	0	6	N/A
STAFF	New 2	2	0	2	2
REGD.	1	2	0	1	1

ENERGY SUMMARY: N/A

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.

Climate Zone: 3 4 5
Method of Compliance: Prescriptive (Energy Code)
 Performance (Energy Code)
 Prescriptive (ASHREA 90.1)
 Performance (ASHREA 90.1)

THERMAL ENVELOPE:

ROOF / CEILING ASSEMBLY

No.	Description	Total U-Value	Insulation R-Value	Skylights Total U-Value	Total Area
	METAL ROOFING OVER 3" RIGID INSULATION ON METAL DECK.				

EXTERIOR WALL ASSEMBLY

No.	Description	Total U-Value	Insulation R-Value	Openings - Windows or Doors w/ Glazing	Door U-Value	Shading Perform. Coeff.	Low Factor E Req
1	4" MASONRY, 2" AIR SPACE, 1" RIGID INSUL., 1/2" GYP SHEATHING ON 8" METAL STUD WITH BATT INSULATION WITH 5/8" GYP						

WALL ASSEMBLIES BELOW GRADE N/A

No.	Description	Total U-Value	Insulation R-Value

FLOOR ASSEMBLIES OVER UNCONDITIONED SPACE N/A

No.	Description	Total U-Value	Insulation R-Value

FLOOR SLAB ASSEMBLIES ON GRADE

No.	Description	Total U-Value	Insulation R-Value
	4" SLAB ON GRADE		

ELECTRIC SYSTEMS & EQUIPMENT:
SEE SHEET E001 FOR ELECTRICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT:
SEE SHEET M001 FOR MECHANICAL SUMMARY

GENERAL NOTES:
1. DO NOT SCALE DRAWINGS. USE "INDICATED" DIMENSIONS ONLY. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. IN THE EVENT OF DISCREPANCY, NOTIFY THE ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING.
2. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY THE ARCHITECT WILL NOT RELIEVE THE PROCEEDING OF THE RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK ARISING FROM SUCH A FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE OWNER / ARCHITECT.
3. PROTECT AND PRESERVE ALL EXISTING ITEMS TO REMAIN AND REPAIR OR REPLACE ANY ITEMS DAMAGED DURING THE COURSE OF THE WORK TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT / OWNER, WITHOUT ADDITIONAL COST TO THE OWNER.

REVISIONS

No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SHEET NAME: BUILDING CODE ANALYSIS
SHEET NUMBER: G-021

ARCHITECT

ksqdesign

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KSO DESIGN
1930 CAMDEN ROAD, SUITE 260
CHARLOTTE, NC 282

18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	ARCHITECT																																																																																																																	
ABBREVIATIONS																		ROOF PLAN LEGEND																		FLOOR PLAN LEGEND																		ANNOTATION LEGEND																		GENERAL ARCH. NOTES																		ARCHITECT																																									
<p>@ AT AIR-CONDITIONING</p> <p>AB ANCHOR BOLT</p> <p>ABC AGGREGATE BASE COURSE</p> <p>ACS ACCESS PANEL</p> <p>ACT ACOUSTICAL CEILING TILE</p> <p>ADJ ADJACENT</p> <p>AF ABOVE FINISHED FLOOR</p> <p>ALT ALTERNATE</p> <p>ALUM ALUMINUM</p> <p>ANOD ANODIZED CLEAR</p> <p>AUTO AUTOMATIC</p> <p>BD BOARD, BEAD</p> <p>BFF BELOW FINISHED FLOOR</p> <p>BLDG BUILDING</p> <p>BLK(G) BLOCKING</p> <p>BM BEAM</p> <p>BT BOTTOM</p> <p>BRG BEARING</p> <p>BSMT BASEMENT</p> <p>BU BUILT-UP</p> <p>C CHANNEL</p> <p>C TO C CENTER TO CENTER</p> <p>CA CARD ACCESS</p> <p>CAB CABINET</p> <p>CB CATCH BASIN</p> <p>CEM CEMENT</p> <p>CEM PLAS CEMENT PLASTER</p> <p>CER CERAMIC</p> <p>CF CONTRACTOR FURNISH/CONTRACTOR INSTAL</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CG CORNER GUARD</p> <p>CI CAST IRON</p> <p>CIP CAST IRON PIPE, CAST-IN-PLACE</p> <p>CJ CANTILEVER JOINT</p> <p>CKT CIRCUIT</p> <p>CL CENTER LINE</p> <p>CLNG CEILING</p> <p>CLR CLEAR</p> <p>CMF MODIFIED METAL PIPE</p> <p>CMU CONCRETE MASONRY UNIT</p> <p>CO CLEAN-OUT</p> <p>COLM COLUMN</p> <p>COMB COMBINATION</p> <p>CONC CONCRETE</p> <p>CONN CONNECT</p> <p>CONSTR CONSTRUCTION</p> <p>CONT CONTINUE</p> <p>CORR CORROSION</p> <p>CPT CARPET</p> <p>CSK COUNTER SINK</p> <p>CT CERAMIC TILE</p> <p>CJ CUBIC</p> <p>CU FT CUBIC FEET</p> <p>OW COLD WATER PIPING</p> <p>D DEEP, DEPTH</p> <p>DBL DOUBLE</p> <p>DEMO DEMOLISH</p> <p>DEPT DEPARTMENT</p> <p>DET DETAIL</p> <p>DF DRINKING FOUNTAIN</p> <p>DIA DIAMETER</p> <p>DIAG DIAGONAL</p> <p>DIM DIMENSION</p> <p>DISP DISPENSER</p> <p>DMPP DAMPPROOFING</p> <p>DR DOOR</p> <p>DS DOWNSPOUT</p> <p>DWG DRAWING</p> <p>E EAST</p> <p>EA EACH</p> <p>EF EACH FACE</p> <p>EIFS EXT. INSULATION AND FINISH SYSTEM</p> <p>EJ EXPANSION JOINT</p> <p>EL ELEVATION</p> <p>ELEC ELECTRICAL</p> <p>ELEV ELEVATOR</p> <p>EMER EMERGENCY</p> <p>EOS EDGE OF SLAB</p> <p>EQU EQUAL</p> <p>EQUIP EQUIPMENT</p> <p>EST ESTIMATE</p> <p>ETC ETCETERA</p> <p>EW EACH WAY</p> <p>EWCO ELECTRIC WATER COOLER</p> <p>EXC EXCAVATION</p> <p>EXH EXHAUST</p> <p>EXIST EXISTING</p> <p>EXP EXPANSION</p> <p>EXPAN EXPANSION BOLT</p> <p>EXT EXTERIOR</p> <p>FA FIRE ALARM</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FCCO FLOOR CLEAN-OUT</p> <p>FD FLOOR DRAIN</p> <p>QTY QUANTITY</p> <p>FDTN FOUNDATION</p> <p>FE FIRE EXTINGUISHER</p> <p>FEC FIRE EXTINGUISHER CABINET</p> <p>FF EL FINISHED FLOOR ELEVATION</p> <p>FHC FIREHOSE CABINET</p> <p>FHR FIREHOSE RACK</p> <p>FIN FINISH(ED)</p> <p>FLASH FLASHING</p> <p>REINF REINFORCED(ING)</p> <p>FLR FLOOR</p> <p>FLUOR FLUORESCENT</p> <p>FM FACTORY MUTUAL</p> <p>FW FACE OF WALL</p> <p>FR FIREPROOF</p> <p>FR FIRE RETARDANT</p> <p>FRP FIBERGLASS REINFORCED PANEL</p> <p>FT FOOT, FEET</p> <p>FURNG FURNISHING</p> <p>FUT FUTURE</p> <p>G GROUND</p> <p>GA GAGE</p> <p>GALV GALVANIZED</p> <p>GC GENERAL CONTRACTOR</p> <p>GCR GLASS FIBER REINFORCED CONCRETE</p> <p>GL GALVANIZED IRON</p> <p>GLZ GLASS, GLAZING</p> <p>GPM GALLONS PER MINUTE</p> <p>GYP GYPSUM</p> <p>GYP BD GYPSUM BOARD</p> <p>H HIGH</p> <p>HB HOSE BIBB</p> <p>HC HOLLOW CORE, HANDICAP</p> <p>HD HEAVY DUTY</p> <p>HDBD HARDBOARD</p> <p>HDWD HARDWOOD</p> <p>HDWR HARDWARE</p> <p>HM HOLLOW METAL</p> <p>HORIZ HORIZONTAL</p> <p>HP HORSE POWER</p> <p>HT HEIGHT</p> <p>HVAC HEATING/VENTILATING/AIR-CONDITIONING</p> <p>HW HOT WATER</p> <p>ID INSIDE DIAMETER</p> <p>IF INSIDE FACE</p> <p>INCL INCLUDED</p> <p>INFO INFORMATION</p> <p>INSUL INSULATION</p> <p>INT INTERIOR</p>																		<p>INV INVERT</p> <p>INV EL INVERT ELEVATION</p> <p>J-BOX JUNCTION BOX</p> <p>JAN CLO JANITOR CLOSET</p> <p>KD KNOCKED DOWN</p> <p>KIT KITCHEN</p> <p>KO KNOCKOUT</p> <p>KPL KICK PLATE</p> <p>L ANGLE</p> <p>LAB LABORATORY</p> <p>LAM LAMINATE</p> <p>LAV LAVATORY</p> <p>LB POUND</p> <p>LF LINEAR FOOT</p> <p>LG LONG, LENGTH</p> <p>LH LEFT HAND</p> <p>LL LIVE LOAD</p> <p>LLH LONG LEG HORIZONTAL</p> <p>LLV LONG LEG VERTICAL</p> <p>LPT LOW POINT</p> <p>LT LIGHT</p> <p>LT WT LIGHTWEIGHT</p> <p>LVR LOUVER</p> <p>MATL MATERIAL</p> <p>MAU MAKE-UP AIR UNIT</p> <p>MAX MAXIMUM</p> <p>MB MACHINE BOLT</p> <p>MECH MECHANICAL</p> <p>MEM MEMBRANE</p> <p>MEMB MEMBRANE</p> <p>MEZZ MEZZANINE</p> <p>MFR MANUFACTURER</p> <p>MH MANHOLE</p> <p>MM MINIMUM</p> <p>MISC MISCELLANEOUS</p> <p>MM MILLIMETER</p> <p>MOD MASONRY OPENING</p> <p>MO MODIFY</p> <p>MR MOISTURE-RESISTANT</p> <p>MTD MOUNTED</p> <p>MTL METAL</p> <p>MVBL MOVABLE</p> <p>N NORTH</p> <p>W WEST, WIDE(TH), WASTE</p> <p>WITH WITH</p> <p>W/O WITHOUT</p> <p>WW WALL TO WALL</p> <p>WC WATERCLOSET</p> <p>WD WOOD</p> <p>WID WINDOW</p> <p>WGL WIRE GLASS</p> <p>WH WALL HUNG, WATER HEATER</p> <p>WI WROUGHT IRON</p> <p>WP WATERPROOF</p> <p>WR WATER RESISTANT</p> <p>WS WEATHERSTRIP</p> <p>W/SCOT WAINSCOT</p> <p>OC ON CENTER</p> <p>OD OUTSIDE DIAMETER</p> <p>OF OUTSIDE FACE</p> <p>OF/CI OWNER FURNISH/CONTRACTOR INSTALL</p> <p>OF/OI OWNER FURNISH/OWNER INSTALL</p> <p>OF OFFICE</p> <p>OH OVERHANG</p> <p>OPH OPPOSITE HAND</p> <p>OPNG OPENING</p> <p>OPP OPPOSITE</p> <p>ORD OVERFLOW ROOF DRAIN</p> <p>PAR PARALLEL</p> <p>PBD PARTICLEBOARD</p> <p>PC PIECE</p> <p>PCC PRECAST CONCRETE</p> <p>PCF POUNDS PER CUBIC FOOT</p> <p>PERF PERFORATED</p> <p>PERIM PERIMETER</p> <p>PERP PERPENDICULAR</p> <p>PL PROPERTY LINE</p> <p>PLAM PLASTIC LAMINATE</p> <p>PLAS PLASTER</p> <p>PLB PLUMBING</p> <p>PLF POUNDS PER LINEAR FOOT</p> <p>PLYWD PLYWOOD</p> <p>PNL PANEL</p> <p>PR PREFABRICATED</p> <p>PREFAB PREFABRICATED</p> <p>PREFIN PREFINISHED</p> <p>PSF POUNDS PER SQUARE FOOT</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>PT PRESSURE TREATED</p> <p>PTD PAPER TOWEL DISPENSER</p> <p>PTN PARTITION</p> <p>PTR PAPER TOWEL RECEPTACLE</p> <p>PUR PURLIN</p> <p>PVC POLYVINYL CHLORIDE</p> <p>Q QUARRY TILE</p> <p>QTY QUANTITY</p> <p>R RADIUS, RISER, ROUND</p> <p>RA RETURN AIR</p> <p>RB RESILIENT BASE</p> <p>RCP REFLECTED CEILING PLAN</p> <p>RD ROOF DRAIN</p> <p>REC RECESSED</p> <p>REF REFERENCE</p> <p>REIN REINFORCED(ING)</p> <p>REQD REQUIRED</p> <p>RESIL RESILIENT</p> <p>REV REVISION, REVERSE</p> <p>RH RIGHT HAND</p> <p>RM ROOM</p> <p>RO ROUGH OPENING</p> <p>ROW RIGHT-OF-WAY</p> <p>RWL RAINWATER LEADER</p> <p>S SOUTH</p> <p>SA SUPPLY AIR</p> <p>SAP SUSPENDED ACOUSTICAL PANEL</p> <p>SCHED SCHEDULE</p> <p>SCW SOLID CORE WOOD</p> <p>SD STORM DRAIN</p> <p>SDG SIDING</p> <p>SECT SECTION</p> <p>SF SQUARE FEET</p> <p>SHR SHOWER</p> <p>SHT SHEET</p> <p>SHTHG SHEATHING</p> <p>SM SIMILAR</p> <p>SM SHEET METAL</p> <p>SPLCL SPECIAL</p> <p>SPEC SPECIFICATION</p> <p>SPKR SPEAKER</p> <p>SS SQUARE</p> <p>SS SERVICE SINK, STANDING SEAM</p> <p>SST STAINLESS STEEL</p> <p>ST STREET</p> <p>STD STANDARD</p> <p>STOR STORAGE</p> <p>STRUC STRUCTURAL</p> <p>SUSP SUSPENDED</p>																		<p>EXHAUST FAN</p> <p>ROOF DRAIN</p> <p>ROOF VENT</p> <p>ROOF HATCH</p> <p>ROOFTOP MECHANICAL EQUIPMENT</p> <p>ROOFTOP MECHANICAL EQUIPMENT</p> <p>THROUGH-WALL SCUPPER</p> <p>SKYLIGHT</p> <p>EXPANSION JOINT COVER ASSEMBLY</p> <p>START POINT</p> <p>FIRE ALARM PULL STATION</p> <p>FIRE ALARM AUDIO/VISUAL DEVICE</p> <p>HEAT/THERMAL DETECTOR</p> <p>OCCUPANCY SENSOR</p> <p>CEILING FAN</p> <p>VOICE ENHANCEMENT SPEAKER (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED)</p> <p>INTERCOM (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED)</p> <p>MOTION SENSOR</p> <p>EXIT SIGN</p> <p>ACCESS PANEL (ACS)</p> <p>EXTERIOR LIGHT FIXTURE</p> <p>CEILING MOUNTED WALL PROJECTOR</p> <p>TRACK LIGHTING</p> <p>SUSPENDED UPLIGHT</p> <p>SUSPENDED UPLIGHT</p> <p>STRIP LIGHTING FIXTURE LENGTH VARIES</p> <p>COVE LIGHT</p> <p>30" DEEP RADIANT</p> <p>PHOTO CELL</p> <p>SMOKE DETECTOR</p> <p>INTERCOM SPEAKER</p> <p>CLASSROOM SPEAKER</p> <p>AUDIO/VISUAL FIXTURE</p> <p>CAMERA</p> <p>TONE/VISUAL FIXTURE</p> <p>CCTV SURVEILLANCE FIXTURE</p> <p>GYPSUM WALLBOARD, CEMENT OR GYP PLASTER</p> <p>EXPOSED STRUCTURE</p> <p>EXISTING TO REMAIN</p> <p>WOOD T&G CEILING</p> <p>SUPPLY DIFFUSER</p> <p>SUPPLY DIFFUSER</p> <p>RETURN AIR GRILLE</p> <p>RETURN REGISTER</p> <p>EXHAUST GRILLE</p> <p>FORCE AIR DIFFUSER</p> <p>SIDE WALL DIFFUSER</p> <p>2' X 4' LIGHT FIXTURE</p> <p>2' X 2' LIGHT FIXTURE</p> <p>1' X 2' LIGHT FIXTURE</p> <p>1' X 1' LIGHT FIXTURE</p> <p>LIGHT FIXTURE LENGTH VARIES</p> <p>WALL MOUNTED LIGHT FIXTURE</p> <p>WALL MOUNTED LIGHT FIXTURE</p> <p>RECESSED DOWNLIGHT</p>																		<p>WALL TYPES:</p> <p>--- DEMOLITION</p> <p>— NEW CONSTRUCTION</p> <p>FIRE RATING WALL TYPES:</p> <p>--- 30 MIN FIRE BARRIER</p> <p>--- 1 HR FIRE BARRIER</p> <p>--- 2 HR FIRE BARRIER</p> <p>--- TRAVEL DISTANCE</p> <p>OTHER WALL-MOUNTED COMPONENTS:</p> <p>CORNER GUARDS</p> <p>FULL RECESSED FIRE EXTINGUISHER CABINET</p> <p>SEMI-RECESSED FIRE EXTINGUISHER CABINET</p> <p>SURFACE MOUNTED FIRE EXTINGUISHER BRACKET</p> <p>DENOTES OVERHEAD FIRE SHUTTER</p> <p>EXPANSION JOINT</p> <p>FLOOR-MOUNTED COMPONENTS:</p> <p>FLOOR DRAIN</p> <p>FLOOR SINK</p> <p>EYE/FACE WASH AND SHOWER STATION</p>																		<p>TITLE</p> <p>12" = 1'-0"</p> <p>A1</p> <p>VIEW TITLE</p> <p>BUILDING ELEVATION</p> <p>INTERIOR ELEVATION</p> <p>BUILDING SECTION</p> <p>WALL SECTION</p> <p>DETAIL</p> <p>ROOM NAME & NUMBER</p> <p>DOOR NUMBER</p> <p>FRAME TYPE</p> <p>WINDOW TYPE</p> <p>STOREFRONT TYPE</p> <p>ELEVATION</p> <p>CEILING HEIGHT (AFF)</p> <p>COLUMN GRID</p> <p>REVISION</p> <p>WALL FINISH</p> <p>BASE FINISH</p> <p>FLOOR FINISH</p> <p>DESIGNATED WALL FINISH</p> <p>DESIGNATED FLOOR FINISH</p> <p>MILLWORK COUNTERTOP/SPLASH</p> <p>MILLWORK WALL OR BASE CABINETS</p> <p>ACCESSIBLE ROOMS WITH MOBILITY FEATURES</p> <p>ACCESSIBLE ROOMS WITH COMMUNICATION FEATURES</p> <p>NORTH ARROW</p> <p>MATERIAL LEGEND</p> <p>EARTH</p> <p>GLASS</p> <p>AGGREGATE BASE COURSE</p> <p>SAND, MORTAR, GYP BD, GROUT, PLASTER</p> <p>CONCRETE</p> <p>CONCRETE MASONRY UNIT</p> <p>BRICK</p> <p>STEEL</p> <p>RIGID INSULATION/SPRAY FOAM INSULATION</p> <p>BATT INSULATION</p> <p>ACOUSTICAL PANEL</p> <p>PLYWOOD, OSB</p> <p>FINISH WOOD</p> <p>DIMENSIONAL LUMBER, CONTINUOUS</p> <p>DIMENSIONAL LUMBER BLOCKING</p> <p>EXISTING</p>																		<p>1 EXTERIOR DIMENSIONS GIVEN TO THE EXTERIOR FACE OF FRAMING (STUDS). DIMENSIONS TO INTERIOR PARTITIONS ARE TO THE FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.</p> <p>2 LARGE SCALE DETAILS AND PLANS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.</p> <p>3 ALL ITEMS ARE CONSIDERED TO BE "NEW" UNLESS NOTED OTHERWISE.</p> <p>4 COORDINATE AND VERIFY ALL DIMENSIONS, OPENINGS AND CONDITIONS WITH CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL AND ALL OTHER PERTINENT DRAWINGS AND TRADES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES AS SOON AS POSSIBLE.</p> <p>5 DO NOT SCALE DRAWINGS.</p> <p>6 ALL DETAILS ARE TYPICAL, INCORPORATE INTO PROJECT AT APPROPRIATE LOCATIONS WHETHER SPECIFICALLY INDICATED OR NOT.</p> <p>7 HINGE SIDE OF ALL DOORS ARE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.</p> <p>8 NOT USED.</p> <p>9 THE DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY DOCUMENTS NEITHER TAKE PRECEDENCE OVER THE OTHER. CONFLICTS IN SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.</p> <p>10 THIS SET OF DRAWINGS INDICATES GENERAL SCOPE OF THE PROJECT. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT. ON BASIS OF SCOPE INDICATED OR DESCRIBED, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK.</p> <p>11 ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL, STATE AND FEDERAL CODES OR REGULATIONS.</p> <p>12 ALL NEW CONSTRUCTION SHALL MEET CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.</p> <p>13 THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE PROCEEDING WITH EXCAVATION, TRENCHING OR SIMILAR WORK. THESE DRAWINGS DO NOT CERTIFY THE EXISTENCE OF UTILITIES WHICH MAY BE PRESENT BUT UNRECORDED OR UNDETECTED.</p> <p>14 PROVIDE LINTELS OR HEADERS AS REQUIRED OR DIRECTED OVER OPENINGS PENETRATED BY MECHANICAL EQUIPMENT.</p> <p>15 PROVIDE MIN. 2X6 FIRE RETARDANT WOOD OR STEEL PLATE BLOCKING BETWEEN STUDS AT MOUNTING LOCATIONS FOR TOILET ACCESSORIES, HANDRAILS, GUARDRAILS, MILLWORK, AND OTHER WALL MOUNTED ITEMS.</p> <p>16 PROVIDE CODE COMPLIANT NON-COMBUSTIBLE BLOCKING, SUPPORTS, ETC., FOR SECURE INSTALLATION OF WALL MOUNTED ITEMS. CONTRACTOR TO DETERMINE TYPE OF BLOCKING AND ANCHORING AS REQUIRED TO SUIT INSTALLATION AND WALL CONDITION. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD DETAILS AND MOUNTING HEIGHTS.</p> <p>17 PROVIDE SECURE AND PERMANENT ANCHORAGE FOR CEILING FURRING AND OTHER CEILING MOUNTED ITEMS. SEISMIC REQUIREMENTS APPLY.</p> <p>18 PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF WALLS AND FLOORS AS SPECIFIED IN SPEC SECTION - FIRESTOPPING.</p> <p>19 NOT USED.</p> <p>20 ALL SUBSTITUTIONS OF MATERIALS AND ASSEMBLIES MUST BE APPROVED BY ARCHITECT IN ACCORDANCE WITH DIVISION 1 SPECIAL CONDITIONS.</p> <p>21 CONTRACTOR IS REQUIRED TO PROVIDE CONTROL AND EXPANSION JOINTS IN ALL ASSEMBLIES PER SPECIFICATION.</p> <p>22 CONTRACTOR SHALL PROVIDE ACCESS TO ALL FIRE DAMPERS AND SPRINKLER HEADS.</p> <p>23 ALL PIPING, DUCTWORK AND CONDUIT TO BE CONCEALED UNLESS NOTED OTHERWISE.</p> <p>24 ALL EXISTING SITE COMPONENTS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ALL DAMAGED SURFACES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AS REQUIRED BY THE OWNER'S REP.</p> <p>25 SITE SURVEY IS PROVIDED BY OTHERS AND IS INCLUDED FOR INFORMATION ONLY. ALL CONDITIONS TO BE FIELD VERIFIED BY CONTRACTOR.</p> <p>26 CONTRACTOR SHALL MAINTAIN SITE DRAINAGE DURING CONSTRUCTION.</p> <p>27 CONTRACTOR SHALL MAINTAIN A CLEAN AND SECURE SITE AS REQUIRED BY DIVISION 1 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS.</p> <p>28 VERIFY THE FOLLOWING WITH THE RESPECTIVE TRADES:</p> <p>A. SIZES AND LOCATIONS FOR BACKING/BLOCKING REQUIRED FOR MOUNTING MECH. AND/OR ELEC. EQUIPMENT SHALL COMPLY WITH DIVISION 5.</p> <p>B. SIZES AND LOCATIONS OF MECH. AND/OR ELEC. PENETRATIONS</p> <p>C. CUTTING AND PATCHING FOR WORK REQUIRED BY MECH. AND/OR ELEC.</p> <p>29 HOT WATER LINES AND DRAIN LINES UNDERNEATH ACCESSIBLE SINKS SHALL BE INSULATED.</p> <p>30 NOT USED.</p> <p>31 PROVIDE SEISMIC SPLAY WIRES & PROVIDE COMPRESSION STRUTS FOR ACOUSTICAL TILE & GYP BD SUSPENSION SYSTEMS.</p> <p>32 ALL CONSTRUCTION SHALL COMPLY TO RESPECTIVE SEISMIC REQUIREMENT SEE STRUCT DRAWINGS FOR SEISMIC CHARACTERISTICS.</p> <p>33 EXPOSED ENDS OF ALL PROJECTING ELEMENTS SUCH AS SILLS, LEDGES & SIMILAR COMPONENTS FABRICATED IN METAL, STONE & OTHER MATERIALS SHALL BE FINISHED SAME AS FACE.</p> <p>34 FOR SPRAY APPLIED AND INTUMESCENT FIRE PROTECTION SCOPE, REFER TO SCHEDULE AT END OF SECTION 07 81 23 INTUMESCENT FIREPROOFING</p>																		<p>ksqdesign</p> <p>NEW YORK OKLAHOMA NORTH CAROLINA TEXAS COLORADO SOUTH CAROLINA</p> <p>KSQ Design 1590 CAMDEN ROAD, SUITE 260 CHARLOTTE, NC 28203 704.364.3400 office 704.364.7880 fax www.ksqdesign.com</p> <p>Owner BRUNSWICK COUNTY SCHOOLS 199 SESSIONS DRIVE BOLIVIA, NC 28422 910.253.5260 office www.bcswan.net</p> <p>Civil Engineer MCGILL ASSOCIATES 712 VILLAGE ROAD SW, SUITE 103 SHALLOTTE, NC 28470 910.397.2971 office www.mcgillengineer.com</p> <p>Structural Engineer CRISER, TROUTMAN, TANNER 3809 PEACHTREE AVE., SUITE 102 WILMINGTON, NC 28403 910.397.2971 office www.ctengineering.com</p> <p>MEP Engineer KSO DESIGN 1930 CAMDEN ROAD, SUITE 260 CHARLOTTE, NC 28203 704.364.3400 office www.ksqdesign.com</p> <p>Electrical Consultant QUALITY CONSULTING ENGINEERS, PLLC 6277-600 CAROLINA COMMONS DRIVE, #350 INDIAN LAND SC 29707 803.207.5450 office djenese@qualityconsultingengineers.com</p> <p>Acoustic & Technology Consultant THORBURN ASSOCIATES 401 N. 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WALL TYPE NOTES

- 1 ALL WALLS ARE TYPE A6.0 UNLESS NOTED OTHERWISE.
- 2 USE TYPE "X" GYP. BOARD THROUGH OUT UNLESS NOTED OTHERWISE.
- 3 IN ALL PARTITIONS DO NOT PLACE ELECTRICAL BOXES OR SIMILAR DEVICES BACK TO BACK OR SIDE TO SIDE IN MANNER TO DIMINISH ACOUSTIC RATING. CAULK PER MANUFACTURER'S RECOMMENDATION TO ALL BOXES.
- 4 REFER TO LIFE SAFETY PLANS, SHEET A04, FOR LOCATION OF FIRE RATED WALLS.
- 5 PROVIDE SOUND BATT INSULATION IN ALL UNIT DEMISING WALLS, UNIT CORRIDOR WALLS, BATHROOM WALLS, ELEVATOR WALLS.
- 6 AT PENETRATIONS IN RATED WALLS EXCEEDING 96 SQ. INCHES, LINE THE PENETRATION WITH THE SAME LAYERS OF GYP. BD. AS THE WALL. ONE LAYER FIRE RATED GYPSUM BOARD FOR 1 HR. WALLS AND TWO LAYERS FOR 2 HR. WALLS.
- 7 PROVIDE TILE BACKER BOARD BEHIND ALL CERAMIC TILE.
- 8 AT WALLS WITH TILE, REPLACE 5/8" TYPE "X" GYP. BD. WITH 5/8" CEMENT BOARD AND WATERPROOF MEMBRANE BEHIND ALL TILE AND 5/8" MR GYP. BD. ABOVE TILE WHERE TILE STOPS AT 5'-0" AFF. SEE INTERIOR ELEVATIONS.
- 9 ALL TOP TRACKS ON NON LOAD BEARING WALLS TO BE SLIP TRACKS.
- 10 PROVIDE 1/2" SPRAY APPLIED INSULATION ONLY WHERE METAL STUD MEETS THE ROOF.
- 11 ALL FOURTH FLOOR WALLS GO TO BOTTOM OF ROOF TRUSS EXCEPT WHERE NOTED. WALL TYPES WITH "RD" BESIDE THEM DESIGNATE PARTITIONS THAT WILL GO TO BOTTOM OF ROOF DECK.

PARTITION TYPE LEGEND

WALL TYPE	RATING
A = ACOUSTICAL WALL	0 = 30 MINUTE RATING
C = CHASE WALL	1 = 1 HOUR RATING
F = FURRING WALL	2 = 2 HOUR RATING
M = MASONRY WALL	
P = PARTIAL HEIGHT WALL	
S = SHAFT WALL	
T = SHEAR WALL	

STUD SIZE	WALL TAG KEY
X = NO FRAMING MEMBER	X = NO FRAMING MEMBER
0 = 7/8"	0 = 7/8"
1 = 1 5/8"	1 = 1 5/8"
2 = 2 1/2"	2 = 2 1/2"
3 = 3 5/8"	3 = 3 5/8"
4 = 4"	4 = 4"
6 = 6"	6 = 6"
8 = 8"	8 = 8"

WALL TAG KEY	RATING
A3, 1 55	STC RATING
INDICATES INSULATION	
INDICATES STUD SIZE	

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 TEXAS COLORADO SOUTH CAROLINA

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 SHALLOTTE, NC 28470
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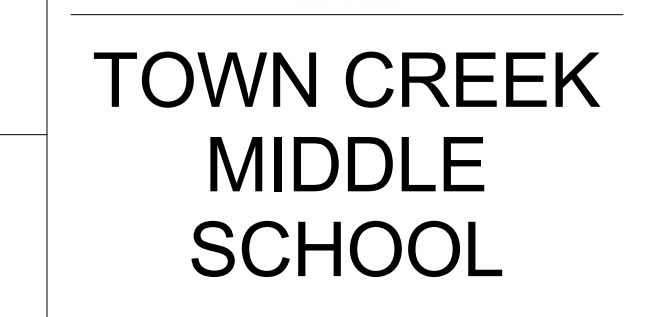
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Electrical Consultant
QUALITY CONSULTING ENGINEERS, PLLC
 6277-600 CAROLINA COMMONS DRIVE,
 #350 INDIAN LAND SC 29707
 803.207.5450 office
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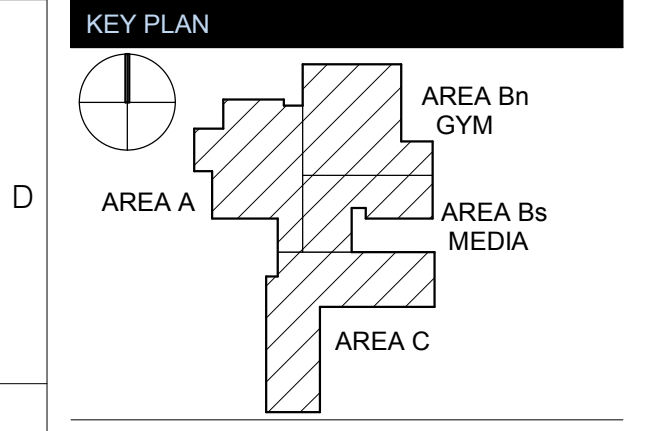
Acoustic & Technology Consultant
THORBURN ASSOCIATES
 401 N. TYRON STREET, 10TH FLOOR
 CHARLOTTE, NC 28202
 510.886.7826 office
 www.TA-inc.com

Building Envelope Consultant
SKA ENGINEERING
 7741 MARKET STREET, SUITE F
 WILMINGTON, NC 28411-9444
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 www.skaeng.com

Food Service Consultant
HERBIN DESIGN
 7325 DORN CIRCLE
 CHARLOTTE, NC 28212-6914
 704.900.0922
 www.herbin.com



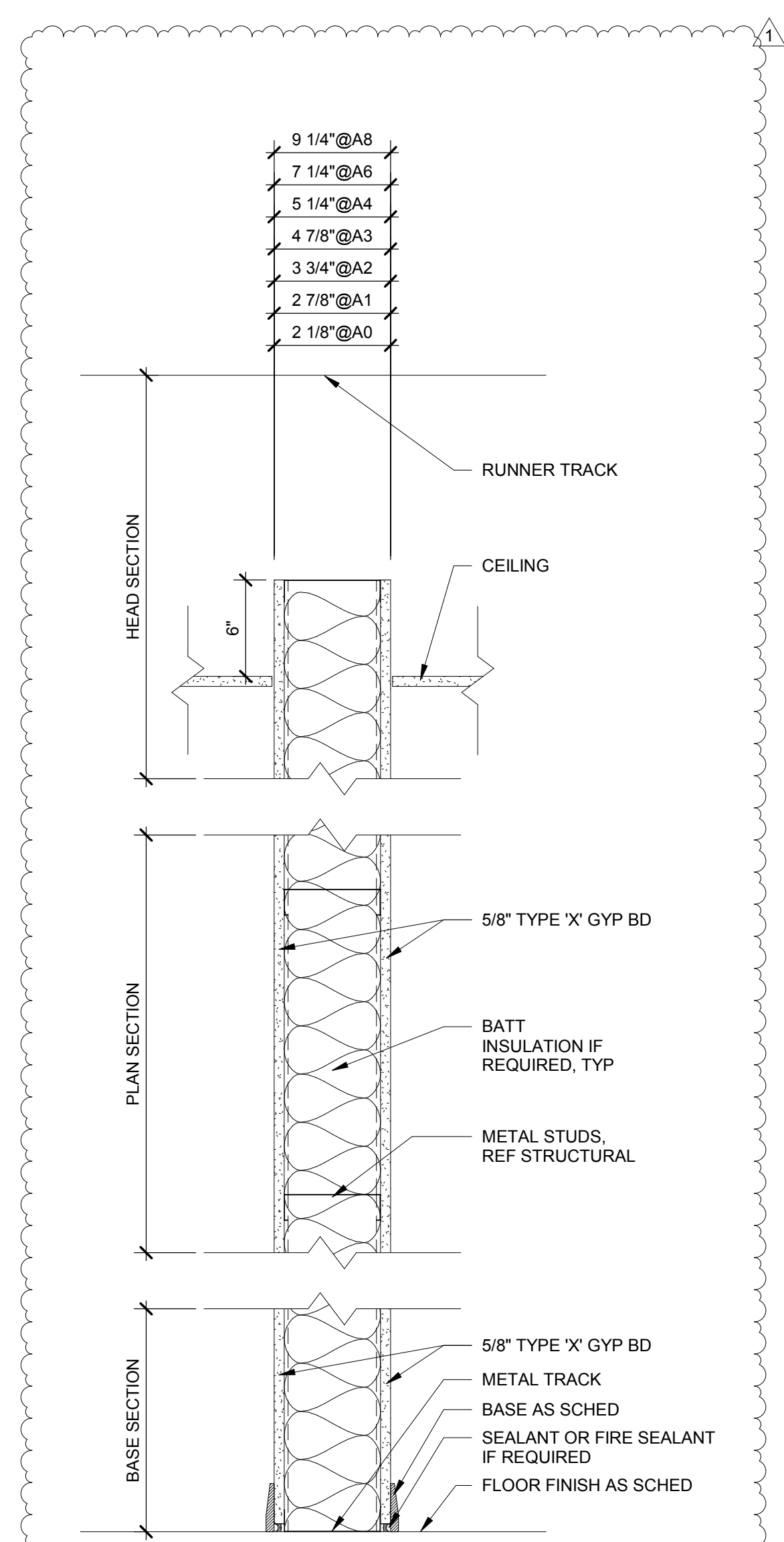
TOWN CREEK MIDDLE SCHOOL
 6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479



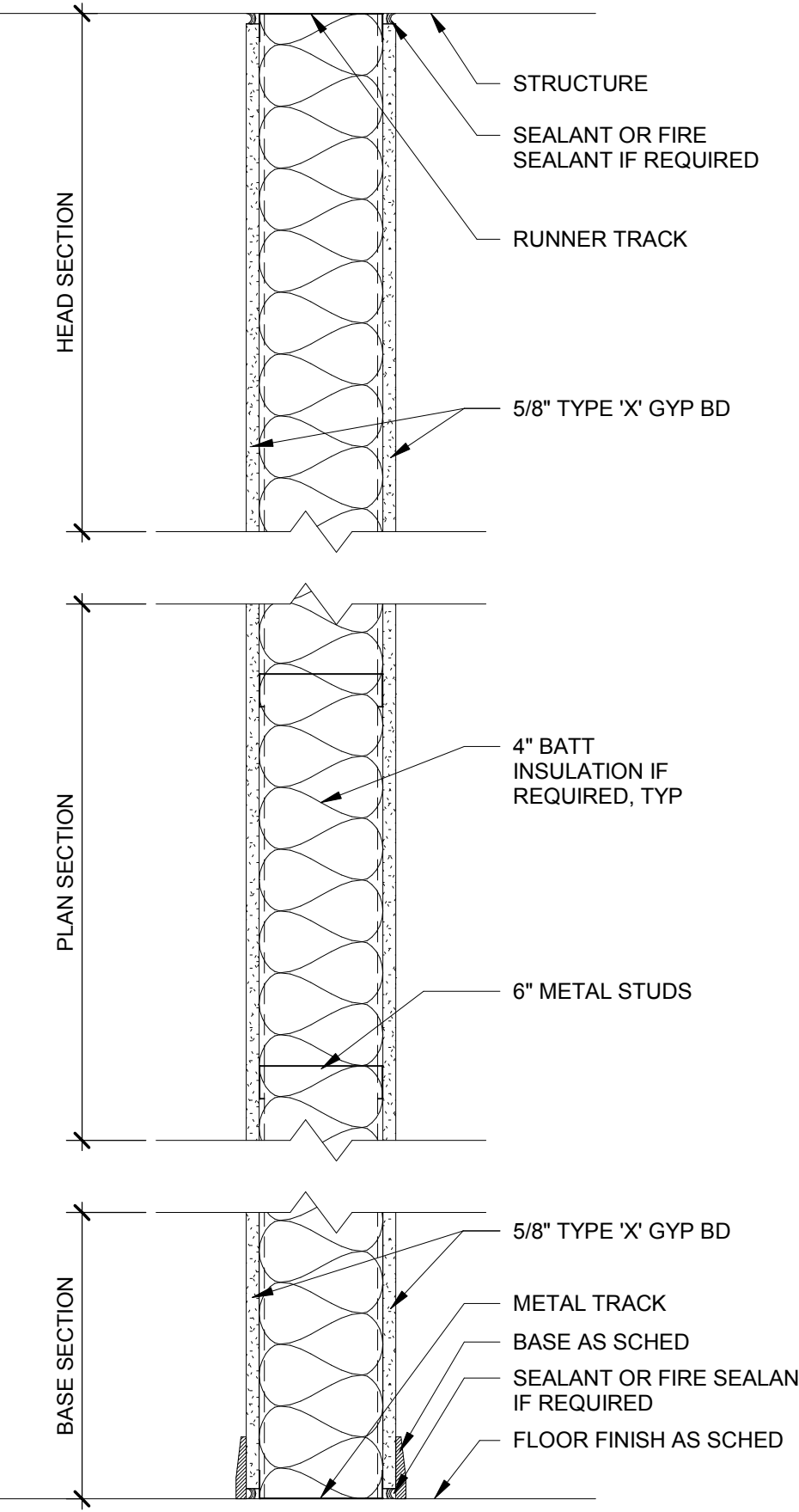
No.	Description	Date
1	Addendum #1	6-7-2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: INTERIOR WALL TYPES
SHEET NUMBER:

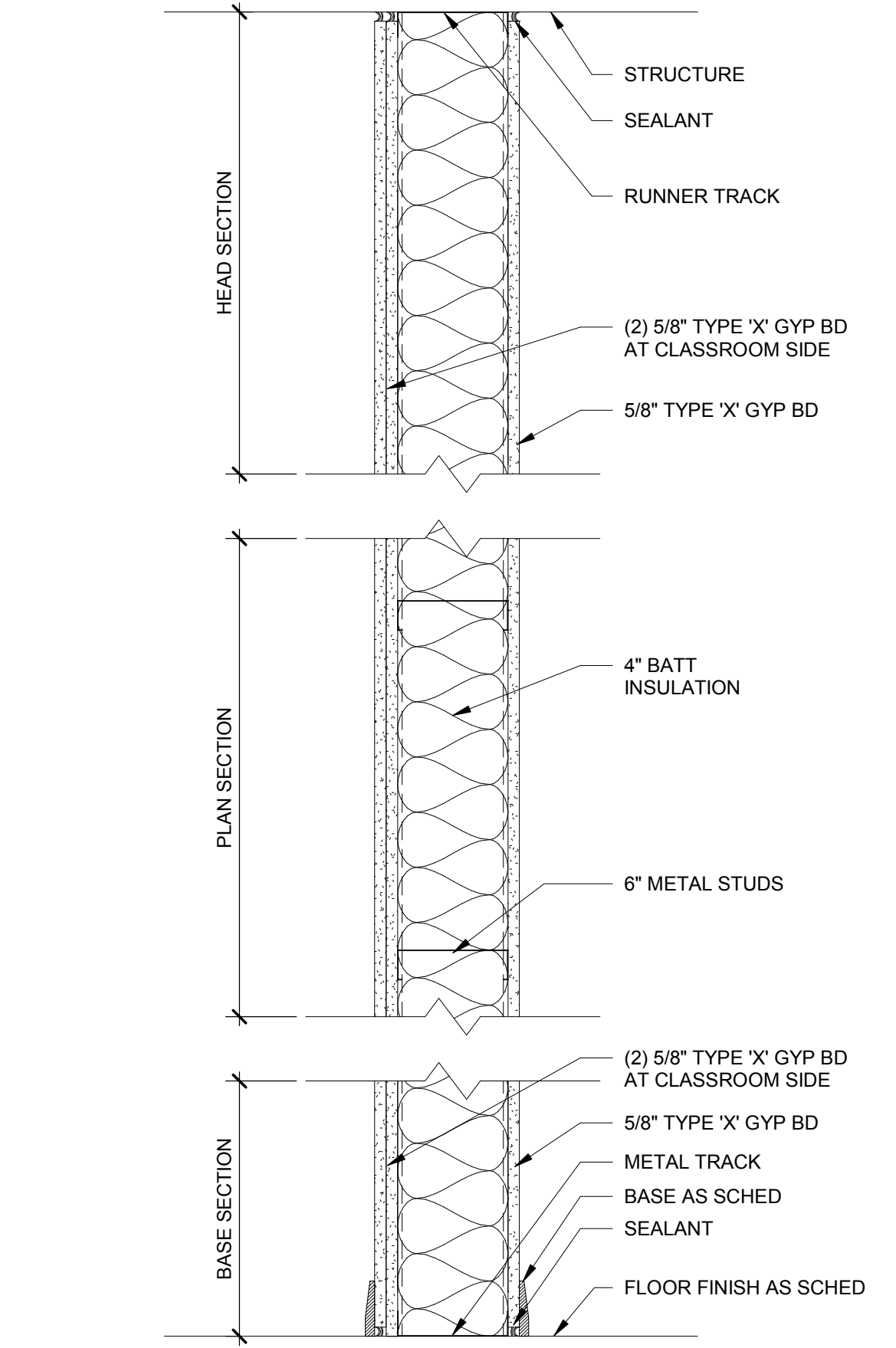
G-041



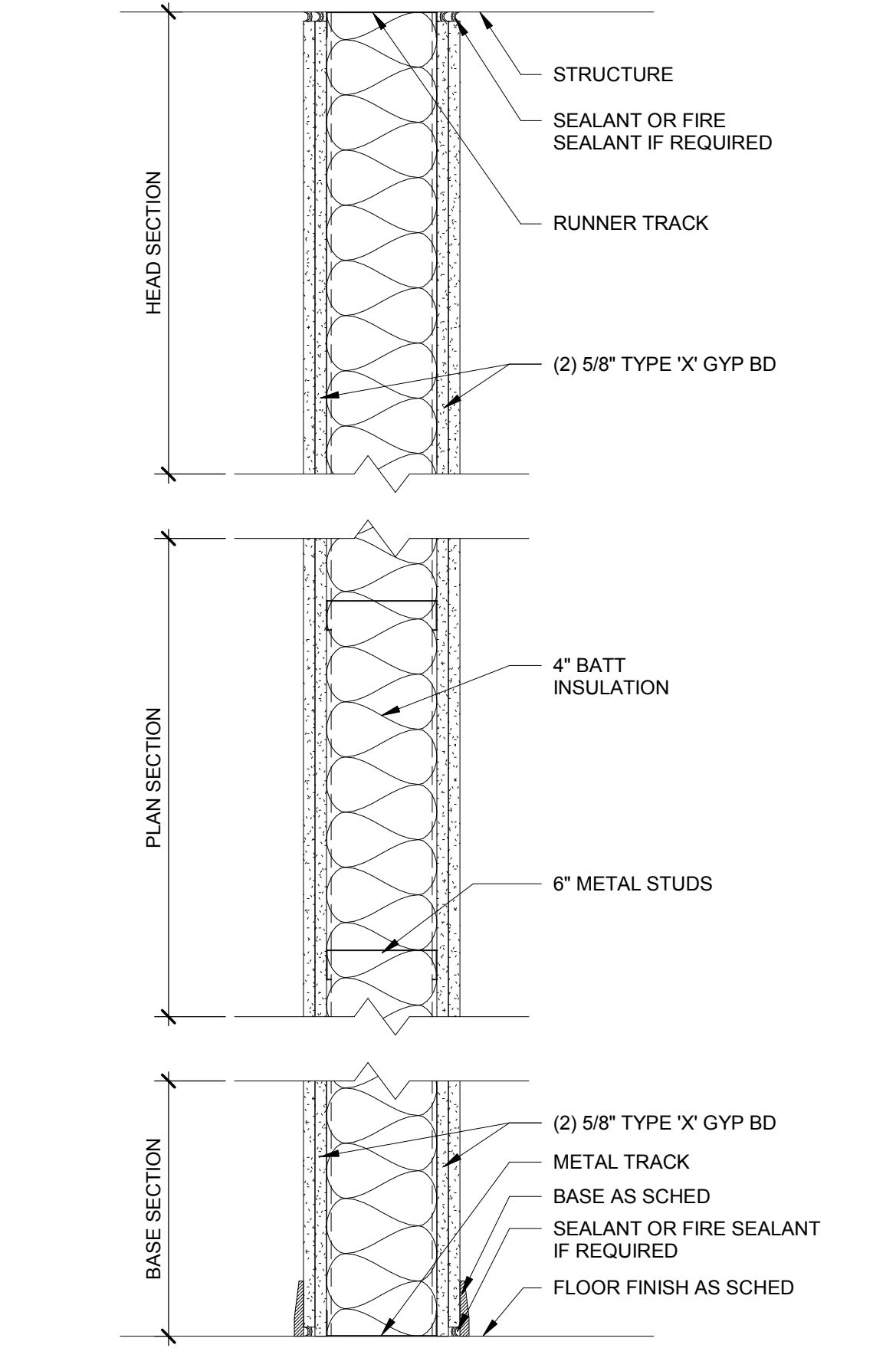
WALL TYPE A
 ONE LAYER 5/8" TYPE "X" GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS



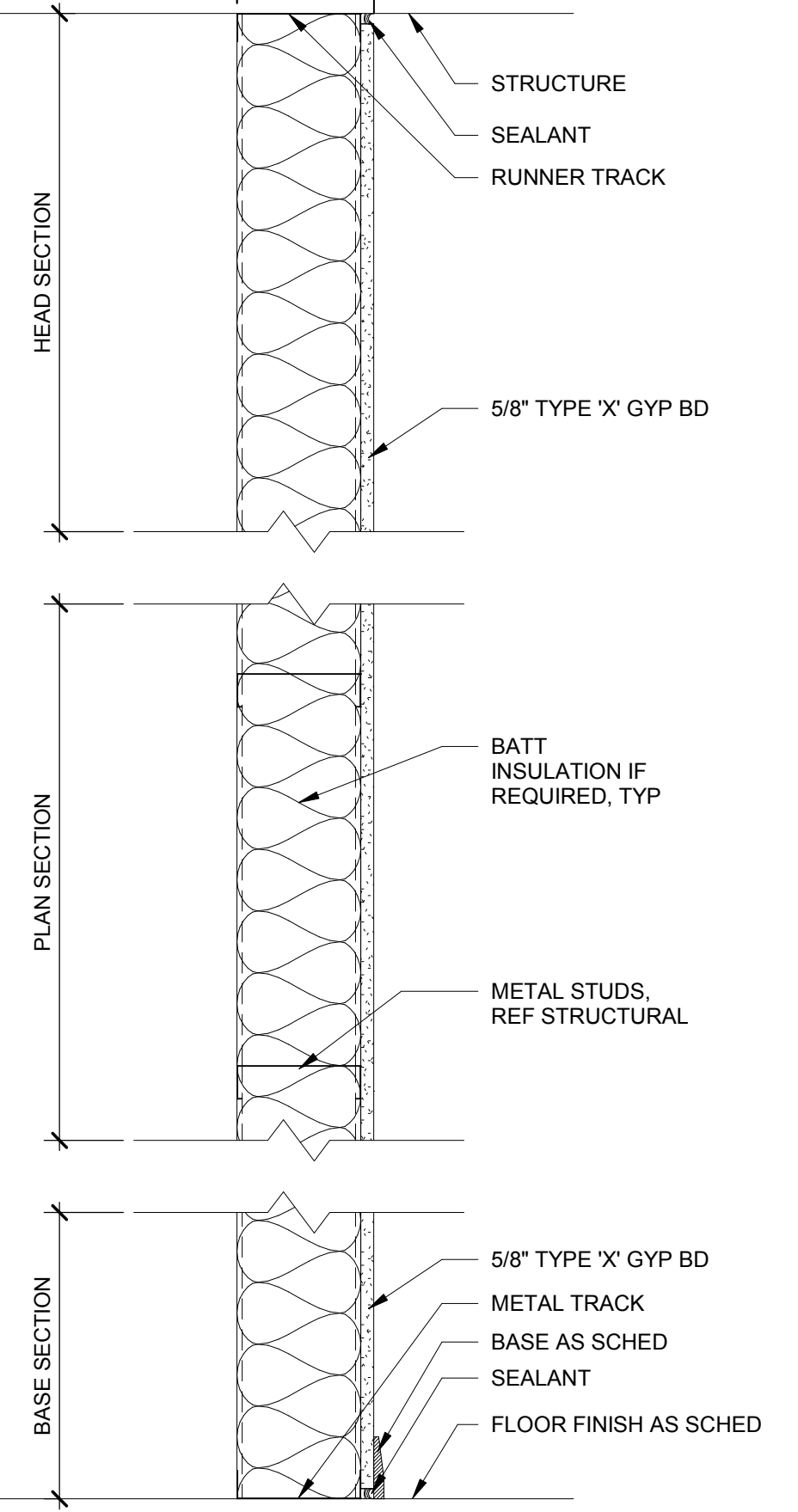
WALL TYPE A6i/45
 ONE LAYER 5/8" TYPE "X" GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS BATT INSULATION IN CAVITY STC 45



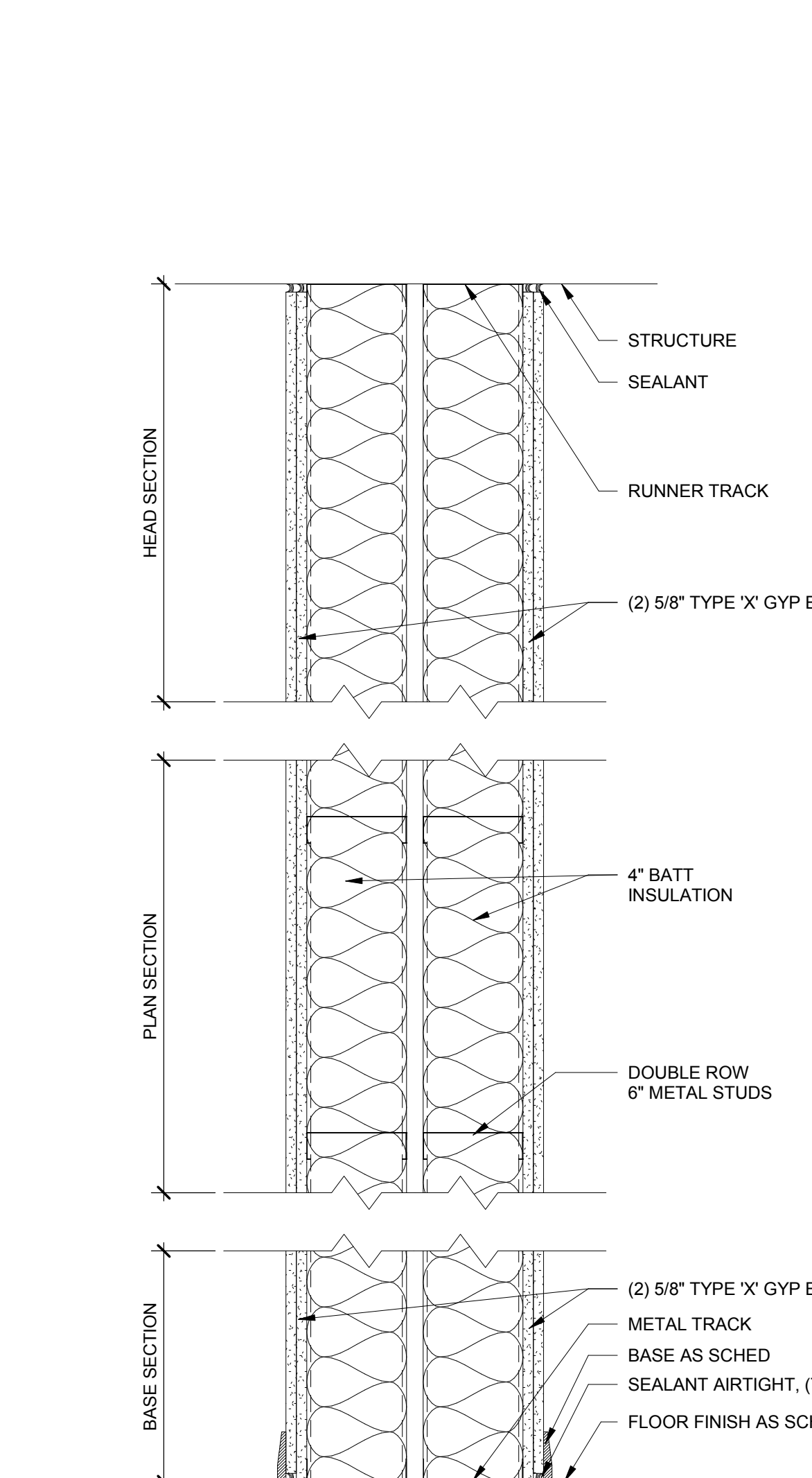
WALL TYPE A6i/50
 TWO LAYERS 5/8" TYPE "X" GYPSUM WALLBOARD ON ONE SIDE AND ONE LAYER OF GYPSUM WALLBOARD ON THE OTHER SIDE OF METAL STUDS BATT INSULATION IN CAVITY STC 50



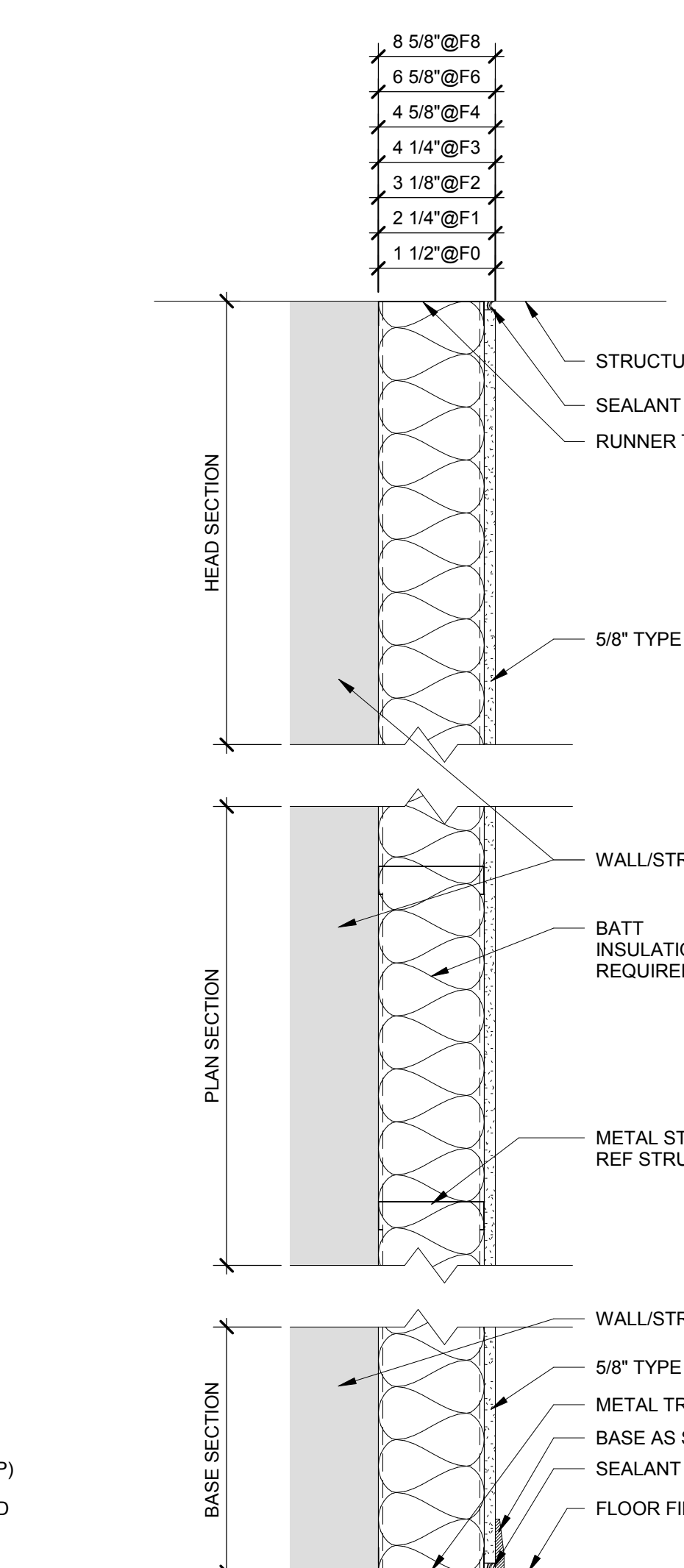
WALL TYPE A6i/55
 TWO LAYERS 5/8" TYPE "X" GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS BATT INSULATION IN CAVITY STC 55



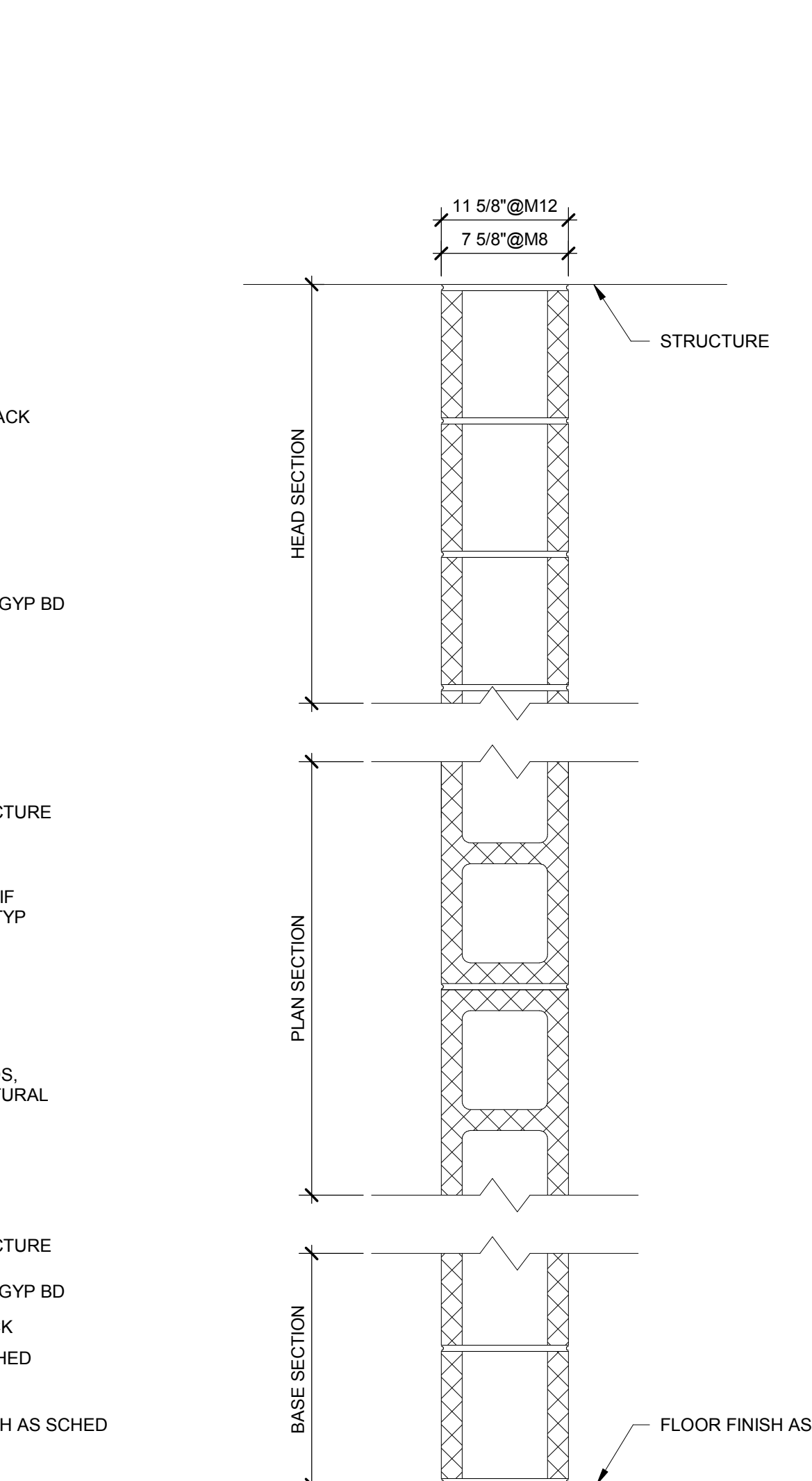
WALL TYPE C
 ONE LAYER 5/8" TYPE "X" GYPSUM WALLBOARD ON ONE SIDE OF METAL STUDS



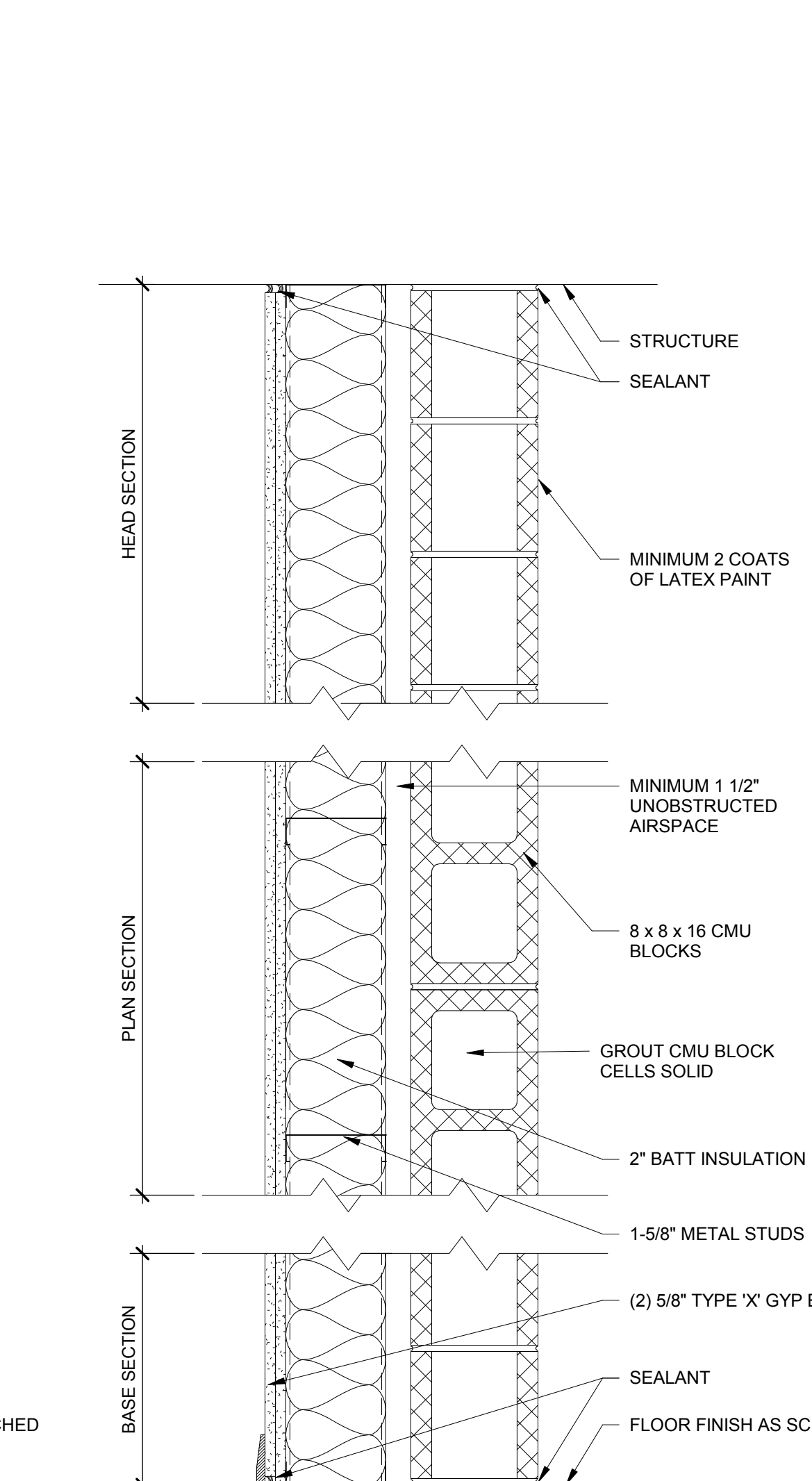
WALL TYPE C6i/60
 TWO LAYERS 5/8" TYPE "X" GYPSUM WALLBOARD ON BOTH SIDES OF METAL STUDS BATT INSULATION IN CAVITY STC 60



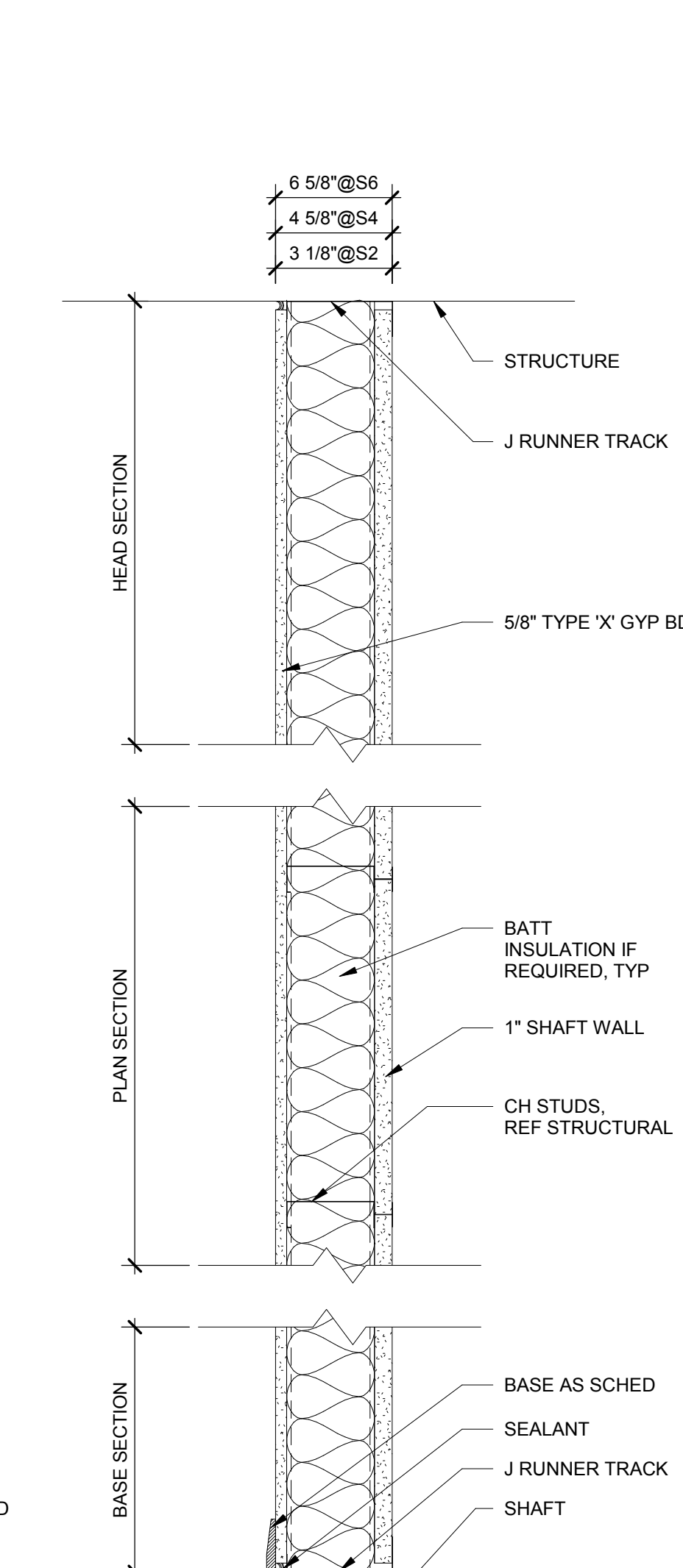
WALL TYPE F
 ONE LAYER 5/8" TYPE "X" GYPSUM WALLBOARD ON ONE SIDE OF METAL STUDS



WALL TYPE M
 CONCRETE MASONRY UNIT



WALL TYPE M8i/60
 CONCRETE MASONRY UNIT



WALL TYPE S
 ONE LAYER 5/8" TYPE "X" GYPSUM WALLBOARD ON ONE SIDE OF CH STUD ONE LAYER 1" SHAFT WALL

LIGHTING FIXTURE SCHEDULE

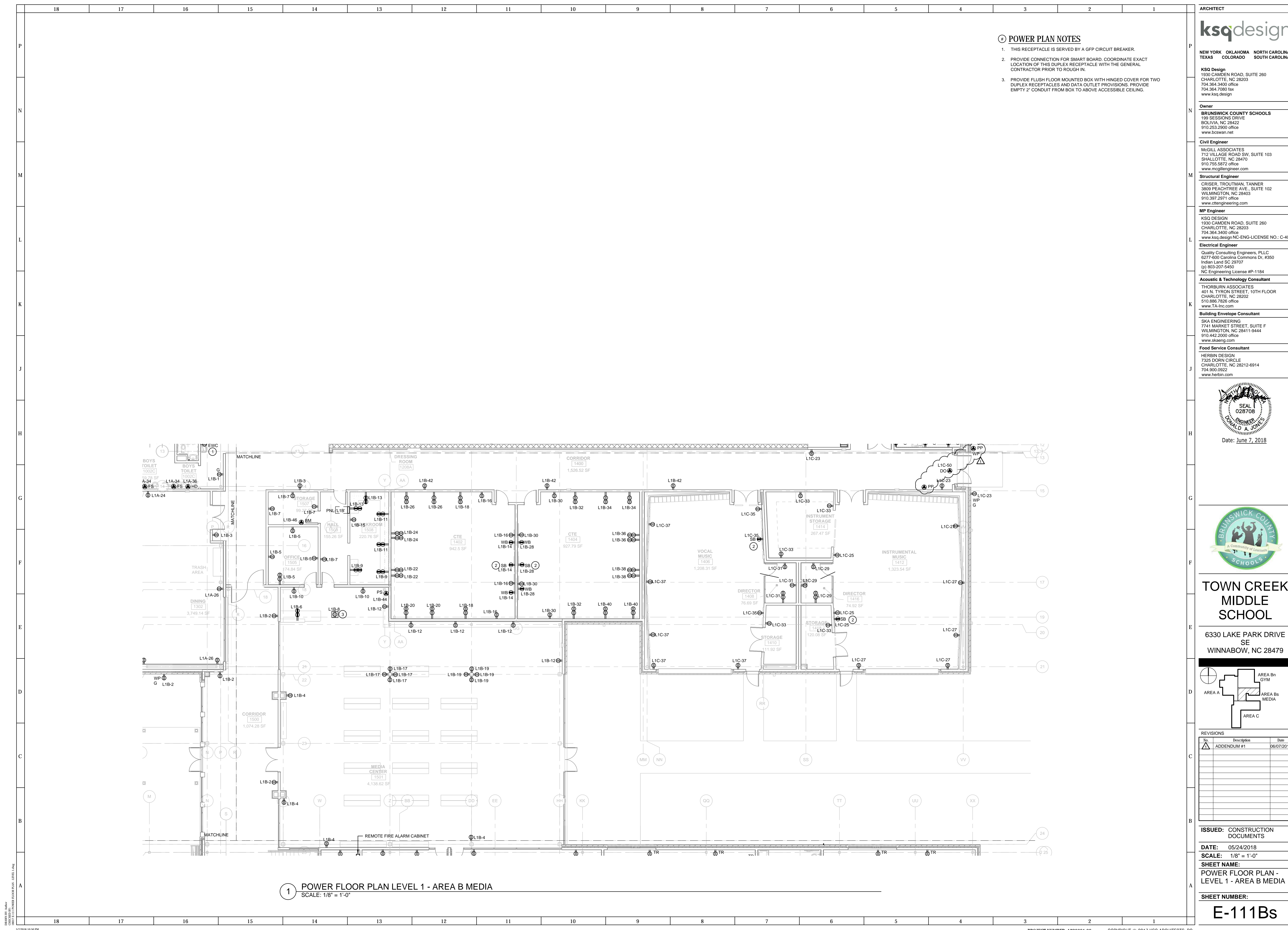
TYPE	LAMPING	DESCRIPTION	MANUFACTURERS CATALOG SERIES NUMBER
A1	4038 LUMENS LED 34.2 WATTS	2"x2" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED.	LITHONIA #ZGTL-2-40L-A19 SERIES H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
A2	6300 LUMENS LED 48.3 WATTS	2"x4" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED. FULL DIMMING RANGE FOR 100% TO 1% (MINIMUM).	H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
A3	7740 LUMENS LED 53.2 WATTS	2"x4" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED. FULL DIMMING RANGE FOR 100% TO 1% (MINIMUM). 90-MINUTE 1,400-LUMEN EMERGENCY BATTERY BACKUP DRIVER.	LITHONIA #ZGTL-4-72L-A19-EZ1 SERIES H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
A3E	7740 LUMENS LED 53.2 WATTS	2"x4" RECESSED LED FOR LAY-IN CEILINGS, EMBOSSED ENCLOSURE, A-19 ACRYLIC PRISMATIC LENS WITH UNIFORM LIGHT DISTRIBUTION ON LENS, 3,500K LED. FULL DIMMING RANGE FOR 100% TO 1% (MINIMUM). 90-MINUTE 1,400-LUMEN EMERGENCY BATTERY BACKUP DRIVER.	LITHONIA #ZGTL-4-72L-A19-EZ1 SERIES H.E. WILLIAMS #LPT24-AF19156-DIM SERIES METALLUX #24GR-FA-LED-HCD SERIES DAY-BRITE #27G-FA-19F-DIM1% SERIES
E1	LED 3 WATTS	EXIT SIGN, WALL MOUNTED, STENCIL FACE PLATE WITH RED DIFFUSER PANEL. UNIVERSAL KNOCKOUT DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, WHITE THERMO-PLASTIC HOUSING, 90 MINUTE EMERGENCY BATTERY BACKUP, SELF-DIAGNOSTICS, CONNECT TO UNSWITCHED LIGHTING CIRCUIT.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #QUANTUM SERIES CHLORIDE #CE15050 SERIES SURE LITES #APX SERIES
E2	LED 3 WATTS	EXIT SIGN, CEILING MOUNTED, STENCIL FACE PLATE WITH RED DIFFUSER PANEL. UNIVERSAL KNOCKOUT DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, WHITE THERMO-PLASTIC HOUSING, 90 MINUTE EMERGENCY BATTERY BACKUP, SELF-DIAGNOSTICS, CONNECT TO UNSWITCHED LIGHTING CIRCUIT.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #QUANTUM SERIES CHLORIDE #CE15050 SERIES SURE LITES #APX SERIES
E3	LED 6 WATTS	EXIT SIGN DOUBLE FACE, CEILING MOUNTED, STENCIL FACE PLATE WITH RED DIFFUSER PANEL. UNIVERSAL KNOCKOUT DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS, WHITE THERMO-PLASTIC HOUSING, 90 MINUTE EMERGENCY BATTERY BACKUP, SELF-DIAGNOSTICS, CONNECT TO UNSWITCHED LIGHTING CIRCUIT.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #QUANTUM SERIES CHLORIDE #CE15050 SERIES SURE LITES #APX SERIES
E4	536 LUMEN LED 42 WATTS	EMERGENCY BATTERY PACK FIXTURE, TWIN LAMP STYLE. WALL MOUNT +/-5" AFF OR ABOVE WINDOW FRAME, OFF-WHITE FINISH, 90 MINUTE MINIMUM BATTERY POWER OPERATION, SELF-DIAGNOSTICS. CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA.	EMERGI-LITE #PREM-DN-R SERIES LITHONIA #ELM6 LED SERIES PHILLIPS #TRU-D-LM5-W/C SERIES SURE LITES #SEL00 SERIES
G1	3,900 LUMEN LED 47 WATTS	TRAPEZOIDAL LED WALL MOUNTED AREA LIGHT FIXTURE 4,000K, FULL CUTOFF, WIDE TYPE III DISTRIBUTION TWO LED DRIVERS, FINISH TO MATCH STOREFRONT MATERIALS. 16"W X 7"H X 9"D, WET LOCATION LISTED, MOUNT +/-0.7" AFF OR TO MATCH ARCHITECTURAL FEATURES. 90 MINUTE EMERGENCY BATTERY TO COMPLY WITH NFPA-101.	GARCOO #101L-32L-530-3-UNV SERIES LITHONIA #WST-LED 2700KA SR2 MVOLT HUBBELL #TRP2 SERIES MCGRAW #IST #B2 LED E1 GZV
G1E	3,900 LUMEN LED 47 WATTS	TRAPEZOIDAL LED WALL MOUNTED AREA LIGHT FIXTURE 4,000K, FULL CUTOFF, WIDE TYPE III DISTRIBUTION TWO LED DRIVERS, FINISH TO MATCH STOREFRONT MATERIALS. 16"W X 7"H X 9"D, WET LOCATION LISTED, MOUNT +/-0.7" AFF OR TO MATCH ARCHITECTURAL FEATURES. 90 MINUTE EMERGENCY BATTERY TO COMPLY WITH NFPA-101.	GARCOO #101L-32L-530-3-UNV SERIES LITHONIA #WST-LED 2700KA SR2 MVOLT HUBBELL #TRP2 SERIES MCGRAW #IST #B2 LED E1 GZV
H1	4,000 LUMEN LED 33 WATTS	10"x4" LED VRAPAROUND FIXTURE, DIE FORMED STEEL HOUSING, WHITE ENAMEL FINISH, CURVED PRISMATIC DIFFUSER WITH LINEAR SIDE PRISMS, SURFACE MOUNTED OR IN THE I.T. ROOM SUSPENDED AT 9" AFF AS COORDINATED WITH I.T. DEPARTMENT. 3,500K.	LITHONIA #RLB4 SERIES H.E. WILLIAMS #39-4-140 SERIES METALLUX #WSNL-LD-40SL SERIES DAYBRITE #OWL-4-40L-840 SERIES
H1E	4,000 LUMEN LED 33 WATTS	10"x4" LED VRAPAROUND FIXTURE, DIE FORMED STEEL HOUSING, WHITE ENAMEL FINISH, CURVED PRISMATIC DIFFUSER WITH LINEAR SIDE PRISMS, SURFACE MOUNTED OR IN THE I.T. ROOM SUSPENDED AT 9" AFF AS COORDINATED WITH I.T. DEPARTMENT. 3,500K. 90 MINUTE EMERGENCY BATTERY.	LITHONIA #RLB4 SERIES H.E. WILLIAMS #39-4-140 SERIES METALLUX #WSNL-LD-40SL SERIES LITHONIA #RLX4 SERIES
H2	8,355 LUMEN LED 64 WATTS	4 LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, MATTE BLACK HOUSING FINISH, FLAT DIFFUSER LENS, SUSPEND AT +/-5" AFF AS COORDINATED WITH STAGE OPENING, 3,500K.	H.E. WILLIAMS METALLUX DAYBRITE
J1	28,550 LUMEN LUMLEDS 280 WATTS	SQUARE GYM LED LIGHT, 4-8 MODULES, 100 LUMENS PER WATT, COLD FORGED ALUMINUM HEAT SINK, BLACK FINISH, TEMPERED GLASS, 40 DEGREE BEAM SPREAD, IP66 HOUSING, SUSPEND FROM STRUCTURE AS COORDINATED WITH ARCHITECTURAL ELEVATIONS. 4,000K.	METEOR TS-280-40K-55 OR APPROVED EQUIVALENT
K	3,033 LUMEN LED 23 WATTS	2" X 7" VAPORTIGHT LINEAR LED CANOPY FIXTURE, SEAMLESS FIBERGLASS HOUSING, LOW-PROFILE FROSTED ROUNDED LENS, SURFACE MOUNT TO BOTTOM OF CANOPY STRUCTURE, 4,000K, WET LOCATION LABEL MATCH EXISTING CANOPY INSTALLATION.	LITHONIA #PEM SERIES H.E. WILLIAMS METALLUX DAYBRITE
K1	900 LUMEN LED 14 WATTS	VAPORPROOF JELLY JAR WITH WIRE GUARD, DIE-CAST HOUSING, 900 LUMENS MINIMUM, WET LOCATION LABEL. COORDINATE LOCATION WITH ELEVATOR SHAFT EQUIPMENT.	LITHONIA #PEM SERIES H.E. WILLIAMS METALLUX DAYBRITE
M1	4,200 LUMEN LED 32 WATTS	4" LONG LED UP/DOWN WALL BRACKET, IMPACT RESISTANT, WHITE FINISH, LINEAR PRISMATIC REFRACTOR, STEP DOWN DIMMING BY MOTION SENSOR, 3,500K, MOUNT +/-0.7" AFF OR ABOVE LANDING.	SCOTT #35952 SERIES VISA # CBS513 SERIES TERON LIGHTING #CPR24-L20.0 SERIES
M1E	4,200 LUMEN LED 32 WATTS	4" LONG LED UP/DOWN WALL BRACKET, IMPACT RESISTANT, WHITE FINISH, LINEAR PRISMATIC REFRACTOR, STEP DOWN DIMMING BY MOTION SENSOR, 3,500K, MOUNT +/-0.7" AFF OR ABOVE LANDING, 90-MINUTE BATTERY BACKUP TO OPERATE DIMMING LEVEL DURING LOSS OF POWER.	SCOTT #35952 SERIES VISA # CBS513 SERIES TERON LIGHTING #CPR24-L20.0 SERIES
M2	2,000 LUMEN LED 20 WATTS	24"-27" WALL MOUNTED LED LIGHTING FIXTURE, MOUNT +/-6" ABOVE MIRROR, SATIN NICKEL END CAPS, 3,000K, MATTE WHITE ACRYLIC DIFFUSER, DAMP LOCATION LISTED.	OXYGEN 837-524-24 OR APPROVED EQUIVALENT
O1	2,003 LUMEN LED 22.6 WATTS	6" DIA. 1-LED, 2,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN4-35-20-L06-WR-AR-LSS INDY #SD-20351-SD4-SAF PORTFOLIO #LD4B-20-D010 SERIES LIGHTOLIER #CL4-210 SERIES
O2	3034 LUMEN LED 34.7 WATTS	6" DIA. 1-LED, 3,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN6-35-30-L06-WR-AR-LSS INDY #SD6-30351-SD4-SAF PORTFOLIO #LD6B-30-D010 SERIES LIGHTOLIER #CL4-210 SERIES
O3	4034 LUMEN LED 44.1 WATTS	6" DIA. 1-LED, 4,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN6-35-40-L06-WR-AR-LSS-EZ1 INDY #SD6-30351-SD4-SAF PORTFOLIO #LD4B-40-D010 SERIES
O4	5,000 LUMEN LED 56 WATTS	6" DIA. 1-LED, 5,000LM, 3,500K, RECESSED DOWNLIGHT, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, DAMP LOCATION LABEL, PROVIDE 1% DIMMING LED DRIVER WHERE REQUIRED BY SWITCHING. COORDINATE LED DRIVER AND DIMMER SWITCH.	LITHONIA #LDN6-35-50-L06-WR-AR-LSS-EZ1 INDY #LPS-35-43-NL-L300P-C-Q PATHWAY 6VFLXZ-5000-35K-D8-6VLEDM-SCLP PORTFOLIO #LD4B-50-D010 SERIES
P1	4,020 LUMEN LED AND 40 WATTS	8" LINEAR SUSPENDED DIRECT-ONLY PENDANT, FINAL SELECTION BY ARCHITECT, 3,500K, BOTTOM AT +/-11" AFF, DIMMING RANGE FROM 100% TO 1% (OF FULL BRIGHTNESS).	ALIGHT ACS3 SERIES OR APPROVED EQUIVALENT
P2	4,000 LUMEN LED AND 41 WATTS	16" DIA. DOME PENDANT, FINAL SELECTION AND FINISH BY ARCHITECT, 3,500K, 41 DEGREE BEAM SPREAD, SUSPEND WITH AIRCRAFT AT +/-11" AFF OR ACCORDING TO ARCHITECTURAL ELEVATIONS, DIMMING RANGE FROM 100% TO 1% (OF FULL BRIGHTNESS).	V2 MODO DUOMO LARGE PENDANT SERIES OR APPROVED EQUIVALENT
P3	3,266 LUMEN LED AND 46 WATTS	12" DIA. DOME PENDANT, FINAL SELECTION AND FINISH BY ARCHITECT, 3,500K, SUSPEND WITH AIRCRAFT AT +/-11" AFF OR ACCORDING TO ARCHITECTURAL ELEVATIONS, DIMMING RANGE FROM 100% TO 1% (OF FULL BRIGHTNESS).	IMPACT TOP LIS, TIKI PENDANT SERIES OR APPROVED EQUIVALENT
R1	460 LUMEN/FT LED 5 WATTS/FT	12" RECESSED LINEAR SLOT, FLUSH MOUNT IN GYP. CEILING, 3,500K, 0-10V DIMMING DRIVER.	ALIGHT ACS SERIES OR APPROVED EQUIVALENT
R2	460 LUMEN/FT LED 5 WATTS/FT	8" RECESSED LINEAR SLOT, FLUSH MOUNT IN GYP. CEILING, 3,500K, 0-10V DIMMING DRIVER.	ALIGHT ACS SERIES OR APPROVED EQUIVALENT
R3	460 LUMEN/FT LED 5 WATTS/FT	4" RECESSED LINEAR SLOT, FLUSH MOUNT IN GYP. CEILING, 3,500K, 0-10V DIMMING DRIVER.	ALIGHT ACS SERIES OR APPROVED EQUIVALENT
T1	LED PAR38 18.5 WATTS	TRACK HEADS WITH COMPATIBLE TRACK ASSEMBLY, NUMBER OF HEADS AND LENGTH OF TRACK AS SHOWN (1/2" - 25" SPOTS WITH CROSS BLADE BAFFLE, 1/2" - 25" NARROW FLOODS), BLACK FINISH FOR HEADS AND TRACK, PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION, SUSPEND FROM STRUCTURE, COORDINATE WITH ARCHITECTURAL ELEVATIONS.	LIGHTING SERVICES INC. #SSL238 SERIES OR APPROVED EQUIVALENT

- SCHEDULE NOTES:**
- VERIFY LUMINAIRE FINISH COLOR WITH ARCHITECT AND OWNER.
 - COORDINATE MOUNTING WITH CEILING TYPE.
 - LED LUMINAIRES SHALL BE CR1 90 MINIMUM.
 - LED BOARDS SHALL MAINTAIN L70 PERFORMANCE AT 50,000 HOURS.
 - PROVIDE ALL NECESSARY SUPPORT HARDWARE AND ADAPTERS FOR EACH LUMINAIRE.
 - PROVIDE DIMMER CONTROL SWITCH FOR DIMMABLE LUMINAIRES FROM MANUFACTURER THAT IS COMPATIBLE WITH DIMMABLE BALLAST OR DRIVER.
 - REFER TO SPECIFICATION SECTION 26 51 00 FOR ADDITIONAL INFORMATION.
 - REFER TO CIRCUIT ASSIGNMENT FOR VOLTAGE.

GENERAL PROJECT NOTES

- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO SURVEY THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID. COORDINATE THE SITE SURVEY TIME WITH THE OWNER.
- WHERE REFERENCE IS MADE TO CODES OR GUIDELINES, THE ELECTRICAL CONTRACTOR SHALL REFER TO THE LATEST APPLICABLE FEDERAL, STATE, AND LOCAL EDITIONS OF THE CODES FOR THIS SITE LOCATION AND THE DIRECTION(S) OF THE LOCAL BRUNSWICK SCHOOL DISTRICT AND THE LOCAL AHJ.
- ALL MATERIALS INSTALLED SHALL BE EITHER U.L. OR THIRD PARTY LISTED.
- THE ELECTRICAL CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR OF ANY AREAS REQUIRING PATCHING. GENERAL CONTRACTOR SHALL PERFORM THE PATCHING. COORDINATE WORK REQUIRED WITH GENERAL CONTRACTOR PRIOR TO ANY CUTTING OF NEW OR EXISTING SURFACES.
- VERIFY ALL ELECTRICAL REQUIREMENTS FOR EQUIPMENT WITH THE MANUFACTURER AND ASSOCIATED TRADES PRIOR TO ROUGH IN OF ELECTRICAL WORK. REFER TO ALL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. COORDINATE EXACT LOCATION OF DEVICE OR JUNCTION BOX ROUGH-IN WITH ARCHITECTURAL ELEVATIONS AND CROSS CHECK WITH OTHER RELATED TRADES. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOADS WITH NAME PLATE DATA PRIOR TO THE ELECTRICAL ROUGH-IN.
- ALL ELECTRICAL WORK SHALL BE SUPPORTED PER THE SPECIFICATIONS OF THIS PROJECT AND APPLICABLE NEC SECTIONS.
- CONDUIT ROUTINGS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL VERIFY ALL ROUTING LOCATIONS WITH THE OWNER, OTHER TRADES IN THE SAME AREA AND THE ARCHITECTS BEFORE ROUGH-IN.
- THE CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURE VOLTAGES AND LENGTHS WITH THE DRAWINGS, BUILDING CONDITIONS AND SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT LIGHTING FIXTURES FOR THE TYPE OF CEILING OR WALL AS SPECIFIED IN THE ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF FIXTURE CATALOG NUMBER GIVEN. VERIFY BY REVIEWING ARCH. FINISH SCHEDULES WITH THE GENERAL CONTRACTOR PRIOR TO ORDERING FIXTURES.
- ALL LIGHTING FIXTURES INSTALLED UNDER THIS PROJECT SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF ASTM C636. NOT LIMITED TO BUT INCLUDING WIRE SIZE, METHOD OF ATTACHMENT AND VERTICAL ALIGNMENT.
- ALL RECEPTACLES SHALL BE INSTALLED WITH THE GROUND POLE UP.
- FEEDER AND BRANCH CIRCUITS SHOWN ARE BASED ON 'EMT' CONDUIT AND THREE CURRENT CARRYING CONDUCTORS BASED ON 75 DEGREE C" INSULATION. ELECTRICAL CONTRACTOR SHALL ADJUST CONDUIT SIZE IF OTHER 'EMT' CONDUIT IS USED. ELECTRICAL CONTRACTOR SHALL ADJUST WIRE SIZE FOR TERMINATIONS AND/OR EQUIPMENT THAT HAVE A LOWER TEMPERATURE RATING THAN 75°C. ELECTRICAL CONTRACTOR SHALL ADJUST WIRE SIZE FOR INSTALLATION IN SPACES WITH AN AMBIENT TEMPERATURE HIGHER THAN 90° C OR EXPOSED TO THE ELEMENTS SUCH AS ON ROOF TOPS. COORDINATE WITH THE EQUIPMENT INSTALLER TO DETERMINE THE TEMPERATURE RATING OF THE EQUIPMENT AND THE TERMINATION LUGS. BASE WIRE SIZE ON THE MORE STRINGENT TEMPERATURE RATING.
- MAINTAIN ACCESS TO ALL EQUIPMENT OF OTHER TRADES FOR CODE REQUIRED CLEARANCE AND CLEARANCE FOR MAINTAINING THE EQUIPMENT WITH ACCESS FROM BELOW WHEN LOCATED ABOVE CEILING. COORDINATE WITH ALL TRADES PRIOR TO THE ROUGH-IN OF ALL CONDUITS, CABLES AND SUPPORT SYSTEMS. IF ACCESS TO EQUIPMENT IS HINDERED BY CONDUIT, CABLES, OR ELECTRICAL SUPPORT SYSTEMS THAT ARE NOT NECESSARY TO THE PROJECT, DO NOT DO ANY ADDITIONAL EXPENSE TO THE OWNER OR OTHER TRADES.
- ALL RECEPTACLES NOTED TO BE GFI SHALL FUNCTION FOR THAT DEVICE AND NOT AFFECT THE BRANCH CIRCUIT UNLESS INDICATED OTHERWISE. ALL RECEPTACLES LOCATED WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFI TYPE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE HVAC CONTRACTOR FOR THE LOCATION TO RECEIVE POWER AND SIGNAL ALARMS FOR THE TEMPERATURE CONTROL SYSTEM, AND DAMPER OPERATION, LINE VOLTAGE AND LOW VOLTAGE WIRING BEYOND THE PANELBOARD AND FIRE ALARM JUNCTION BOX IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS NOTED OTHERWISE. TEMPERATURE CONTROL WIRING SHALL ORIGINATE AT THE PANELBOARD NOTED WITH HVAC CONTROL CIRCUIT BREAKERS.
- SYNCHRONIZE FIRE ALARM STROBES, WHEN MORE THAN ONE IS VISIBLE FROM ANY ONE LOCATION.
- THE ELECTRICAL OPERATING AND MAINTENANCE MANUAL SHALL INCLUDE THE MANUFACTURERS STANDARD MATERIALS (ORIGINAL MANUALS OR WRITTEN) FOR OPERATION AND MAINTENANCE OF THE ELECTRICAL EQUIPMENT INSTALLED ON THIS PROJECT. THE O&M MANUALS SHALL ALSO INCLUDE A COPY OF THE APPROVED SHOP DRAWINGS, INCLUDING WIRING DIAGRAMS SPECIFIC FOR THIS PROJECT AND COPIES OF ALL CERTIFICATIONS OF INSTALLATION SUCH AS FOR FIRE ALARM U.P.S. SYSTEM, I.T. SYSTEMS, ETC. METHOD OF ASSEMBLY OF THE MANUAL SHALL BE IN ONE (1) THREE-RING BINDER (MAX. 3") WITH DIVIDERS. MANUALS NOT SUBMITTED IN THIS METHOD WILL BE REJECTED WITHOUT REVIEW.
- PROVIDE ARC FLASH LABELING ON NEW EQUIPMENT. COORDINATE METHOD OF LABELING WITH OWNERS STANDARD PRACTICES. LABELS ON OR IN THE EQUIPMENT ENCLOSURE. LABELS SHALL MEET NEW 70E REQUIREMENTS.
- THERE SHALL BE NO GAPS OR OPEN SPACES GREATER THAN 0.25" BETWEEN A RECESSED BOX AND THE WALL SURFACE PER NEC 314.21. THE FRONT EDGE OF A BOX OR EXTENSION RING SHALL NOT SET BACK MORE THAN "FROM THE FACE OF THE FINISHED SURFACE PER NEC 314.20.
- RECEPTACLES SHALL BE MOUNTED WITH THE YOKE OR STRAP HELD RIGIDLY AGAINST THE BOX OR COVER OR IF THE BOX IS SET BACK PER NEC 314.21 THE YOKE OR STRAP SHALL BE HELD RIGIDLY AGAINST THE FINISHED SURFACE WHEN COMPLETE THE FACE OF THE RECEPTACLE SHALL PROJECT A MINIMUM OF 0.015" FROM METAL FACEPLATES. PER NEC 406.5.
- COORDINATE ALL ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR TO MAINTAIN THE ROOF WARRANTY. COMBINE PENETRATIONS WHERE POSSIBLE WITH OTHER TRADES.
- WHERE NOT INSTALLED IN THE CABLE TRAY OR 'J' HOOKS, LOW VOLTAGE WIRE SHALL BE SUPPORTED FROM STRUCTURE AND PROPERLY SECURED. SUPPORTS SHALL BE A MAXIMUM OF 6" APART AND A MAXIMUM OF 12" FROM WALL PENETRATIONS/SUPPORTS. DO NOT SUPPORT WIRE FROM CEILING GRID, DUCT WORK, OR WORK BY OTHER TRADES.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INFORMATION NECESSARY, FROM FIELD OBSERVATIONS AND MEASUREMENTS OF THE CONSTRUCTION OF THIS PROJECT, TO ALLOW FOR THE SHORT CIRCUIT AND ARC FLASH STUDIES TO BE PERFORMED.
- FURNISH ALL MATERIALS, LABOR AND EQUIPMENT FOR THE INSTALLATION OF SEISMIC BRACING AND RESTRAINTS FOR EARTHQUAKE LOADS AS PRESCRIBED BY THE LATEST ADOPTED VERSION OF THE NORTH CAROLINA STATE BUILDING CODE. SEISMIC DESIGN REQUIREMENTS, ALL ELECTRICAL COMPONENTS WHICH MUST REMAIN ACTIVE AFTER A SEISMIC EVENT OR COULD HAVE AN IMPACT ON THOSE COMPONENTS SHALL BE CERTIFIED BY THE MANUFACTURER TO FUNCTION PROPERLY DURING AND AFTER A SEISMIC CONDITION. THESE COMPONENTS INCLUDE, BUT NOT LIMITED TO CONDUITS, CABLE TRAY, EQUIPMENT, TRANSFORMERS, ELECTRICAL PANELS, ETC. DESIGN CALCULATIONS AND DETAILS FOR THE RESTRAINT METHODS, SHALL BE SUBMITTED FOR REVIEW. IN ADDITION, SUBMIT A LETTER, CERTIFYING THAT THE INSTALLATIONS CONFORM TO THE EQUIPMENT MANUFACTURERS RECOMMENDATION AND THE LATEST ADOPTED VERSION OF THE STATE BUILDING CODE REQUIREMENTS FOR SEISMIC COMPLIANCE. THESE COMPONENTS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA.
- COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE EXACT NUMBER AND LOCATION OF SPRINKLER SYSTEM FIRE ALARM CONNECTION POINTS SUCH AS TAMPER AND SWITCHES, INCLUDING DEVICES ON THE EXTERIOR OF THE BUILDING.
- CONNECT INVERTERS AHEAD OF ALL SWITCHES AND LIGHTING CONTROLS.

ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING FIXTURE CEILING MOUNTED.		JUNCTION BOX, PROVIDE STANDARD 4" SQUARE BY 1-1/2" DEEP BOX, ION, CEILING OR WALL MOUNTED AT 18" AFF. ION, VERIFY MOUNTING HEIGHT IN THE FIELD. PROVIDE 3/4" C. UP TO CEILING. VERIFY EXACT LOCATION IN THE FIELD.
	LIGHTING FIXTURE PENDANT OR WALL MOUNTED.		JUNCTION BOX AND CONNECTION TO EQUIPMENT OR TERMINAL STRIPS.
	BACK TO WALL OR END MOUNTED. ARROWS AS INDICATED ON DRAWINGS. SEE LIGHTING FIXTURE SCHEDULE.		DUAL TECHNOLOGY (US AND PIR) OCCUPANCY SENSOR SWITCH WITH DIMMING SELECTABLE MODE SET TO MANUAL ON VACANCY OFF. 44" A.F.F.
	LIGHTING FIXTURE CEILING MOUNTED.		DUAL TECHNOLOGY (US AND PIR) OCCUPANCY SENSOR SWITCH. SELECTABLE MODES SET TO MANUAL ON VACANCY OFF. 44" A.F.F.
	EXTERIOR LIGHTING FIXTURE WALL MOUNTED.		CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY (U.S. AND PIR).
	BATTERY BACKUP EMERGENCY LIGHTING FIXTURE.		DAYLIGHT HARVESTING SENSOR, CEILING MOUNTED AS DIRECTED BY MANUFACTURER. TO SENSE DAYLIGHT FROM WINDOWS.
	FIXTURE DESIGNATION. TYPICAL FOR ALL FIXTURES OF THE SAME SHAPE IN THE ROOM.		SINGLE POLE SWITCH, MOUNTED AT 44" AFF.
	DUPLEX RECEPTACLE, MOUNTED 44" AFF., 8" ABOVE COUNTER, OR 2" ABOVE BACKSPASH.		MODIFIERS FOR SWITCHES: 3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH D = DIMMER SWITCH a.b.c = MULTIPLE SWITCH LEGS
	DUPLEX RECEPTACLE, MOUNTED 18" AFF.		SPECIAL NEMA CONFIGURATION RECEPTACLE, MOUNTED AS NOTED.
	TWO DUPLEX RECEPTABLES IN 2-GANG BOX, TOP 44" AFF., 8" ABOVE COUNTER, OR 2" ABOVE BACKSPASH.		MODIFIERS FOR RECEPTACLES: G = GROUND FAULT INTERRUPTER WP = WEATHERPROOF EWC = ELECTRICAL WATER COOLER S = SAFETY TYPE DUPLEX RECEPTACLE USB = DUPLEX RECEPTACLE WITH USB POWER PORTS. SB = COMBINATION RECEPTACLE, DATA PORTS FOR SMART BOARD. TR = TAMPER-RESISTANT RECEPTACLE TV = COMBINATION TV RECEPTACLE, ANTENNA/ DATA PORTS. SEE DETAIL.
	TWO DUPLEX RECEPTABLES IN 2-GANG BOX, MOUNTED 18" AFF.		SOUND SYSTEM PUSHBUTTON STATION, SURFACE WALL MOUNTED 44" AFF OR AS NOTED ON FLOOR PLANS
	SPECIAL NEMA CONFIGURATION RECEPTACLE, MOUNTED AS NOTED.		CATV OUTLET, WALL MOUNTED 80" AFF OR AS NOTED ON FLOOR PLAN, DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING AND 3/4" EXTENDED TO ACCESSIBLE CEILING.
	MODIFIERS FOR RECEPTACLES: G = GROUND FAULT INTERRUPTER WP = WEATHERPROOF EWC = ELECTRICAL WATER COOLER S = SAFETY TYPE DUPLEX RECEPTACLE USB = DUPLEX RECEPTACLE WITH USB POWER PORTS. SB = COMBINATION RECEPTACLE, DATA PORTS FOR SMART BOARD. TR = TAMPER-RESISTANT RECEPTACLE TV = COMBINATION TV RECEPTACLE, ANTENNA/ DATA PORTS. SEE DETAIL.		SOUND SYSTEM SPEAKER, CEILING MOUNTED. COORDINATE CABLING REQUIREMENTS WITH VENDOR. SEE SOUND RISER FOR DETAILS.
	SPECIAL CONNECTION; REFER TO CONNECTION SCHEDULE.		HANGING MICROPHONE, 4" SQUARE BOX, CEILING MOUNTED. SEE SOUND RISER FOR DETAILS.
	PANELBOARD SURFACE MOUNTED, TOP 6" - 6" AFF.		SOUND SYSTEM FLOOR BOX, 12"x12"x6" WITH HINGED COVER, MOUNTED FLUSH IN FLOOR.
	MANUAL MOTOR STARTER.		SOUND SYSTEM MULTI-PLUG JACK OUTLET, 12"x12"x6" WITH HINGED COVER, WALL MOUNTED 42" AFF.
	FUSED HEAVY DUTY SAFETY SWITCH.		SOUND SYSTEM WALL BOX, 12"x12"x6" WITH HINGED COVER, WALL MOUNTED 42" AFF.
	ENCLOSED CIRCUIT BREAKER, F = FLUSH MOUNTED.		PUBLIC ADDRESS SPEAKER, WALL MOUNTED 9'-0" AFF WEATHER PROOF WERE "WP" SHOWN ADJACENT TO SYMBOL.
	DRY TYPE TRANSFORMER.		PUBLIC ADDRESS RECESSED VOLUME CONTROL, WALL MOUNTED 44" AFF.
	BRANCH OR FEEDER CIRCUIT HOMERUN. SUBSCRIPT DENOTES ELECTRICAL EQUIPMENT AND OVERCURRENT PROTECTION DEVICE NUMBER. PANEL BOARD AND NUMBER NEXT TO A DEVICE INDICATES THE CIRCUIT ASSIGNMENT FOR THAT DEVICE.		INTERCOM CALL BUTTON, WALL MOUNTED 44" AFF.
	WIRING SYSTEM BELOW FLOOR OR BELOW GRADE.		VIDEO CAMERA OUTLET BOX, WALL MOUNTED 10'-0" AFF. CEILING MOUNTED WHERE INDICATED.
	WIRING SYSTEM CONCEALED ABOVE CEILING OR IN WALL.		CARD ACCESS OUTLET BOX, WALL MOUNTED
	FIRE ALARM CONTROL PANEL.		COMMUNICATIONS OUTLET MOUNTED 18" AFF WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.
	FIRE ALARM REMOTE ANNUNCIATOR PANEL.		COMMUNICATIONS OUTLET MOUNTED 44" AFF, OR 8" ABOVE COUNTER, OR 2" ABOVE BACKSPASH, WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.
	FIRE ALARM MANUAL PULL STATION, MOUNTED 44" AFF.		CEILING MOUNTED OUTLET BOX FOR WIRELESS ACCESS POINT DEVICE.
	FIRE ALARM AUTOMATIC SMOKE DETECTOR.		FLOOR BOX, STEEL W/ EPOXY COATING, 4-GANG, 3" DEEP POUR, FLUSH MOUNTED IN EXISTING CONCRETE FLOOR. PROVIDE RECESSED ACTIVATION COVERPLATE. PROVIDE (2) 20A, 125V DUPLEX RECEPTACLE AND 3/4" CONDUIT FROM POWER COMPARTMENT TO J-BOX ABOVE ACC. CEILING. PROVIDE (1) 1" CONDUIT FROM LV COMPARTMENT TO ABOVE ACCESSIBLE CEILING CUT AND PATCH EXISTING CONCRETE FLOOR FOR NEW CONDUIT TRENCH FROM FLOOR BOX TO ACC. WALL. HUBBELL #CFB3530CR2-24CVXRX22-HBLFBMP04FBMPR02FBMPBK CSBA. PROVIDE R.S. DESIGNATION PT INDICATES FIRE-RATED POKE-THROUGH STYLE.
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		ABOVE FINISHED FLOOR
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		CONDUIT
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		3-POLE OR 3-PHASE
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		OVERCURRENT PROTECTION
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		GROUND FAULT PROTECTION
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		CIRCUIT BREAKER
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		GROUND
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		AMPERES INTERRUPTING CAPACITY
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		MAIN CIRCUIT BREAKER
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		MAIN LUGS ONLY
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		TELECOMMUNICATIONS MAIN GROUND BAR
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		UNLESS OTHERWISE NOTED
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		WEATHER PROOF OR WEATHER RESISTANT
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		
	FIRE ALARM DUCT MOUNTED AUTOMATIC SMOKE DETECTOR.		
	FIRE ALARM RATE-OF-RISE HEAT DETECTOR.		
	FIRE ALARM BEAM DETECTOR DEVICE, TRANSMITTER OR RECEIVER		



POWER PLAN NOTES

1. THIS RECEPTACLE IS SERVED BY A GFP CIRCUIT BREAKER.
2. PROVIDE CONNECTION FOR SMART BOARD. COORDINATE EXACT LOCATION OF THIS DUPLEX RECEPTACLE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN.
3. PROVIDE FLUSH FLOOR MOUNTED BOX WITH HINGED COVER FOR TWO DUPLEX RECEPTACLES AND DATA OUTLET PROVISIONS. PROVIDE EMPTY 2" CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING.

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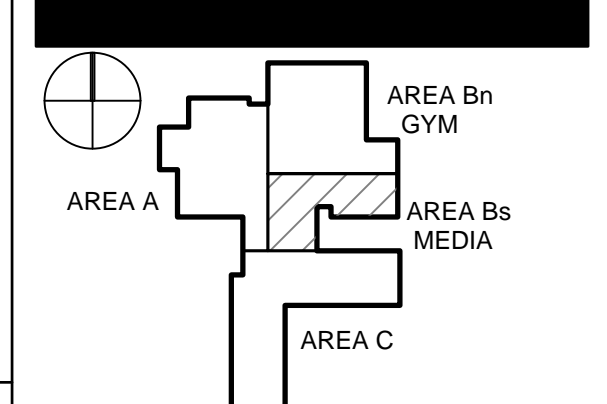
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Date: June 7, 2018



TOWN CREEK MIDDLE SCHOOL
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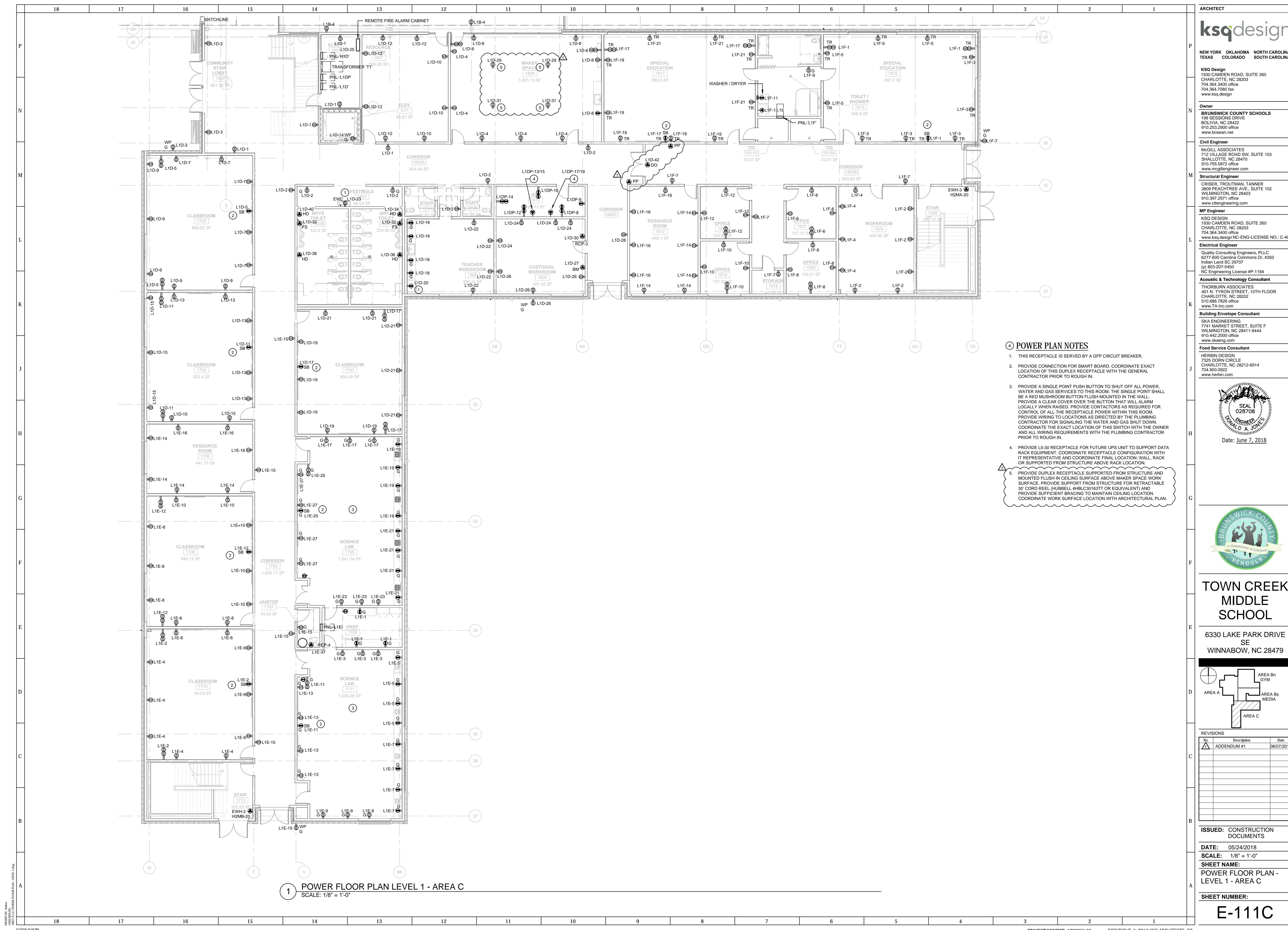


No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME:
 POWER FLOOR PLAN - LEVEL 1 - AREA B MEDIA
SHEET NUMBER:

E-111Bs

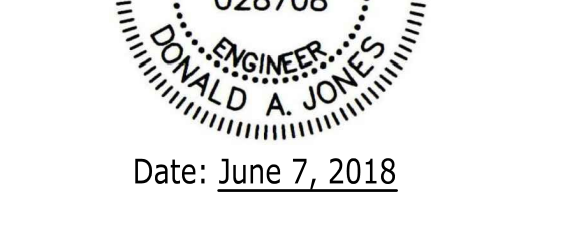
1 POWER FLOOR PLAN LEVEL 1 - AREA B MEDIA
 SCALE: 1/8" = 1'-0"



1 POWER FLOOR PLAN LEVEL 1 - AREA C
SCALE: 1/8" = 1'-0"

POWER PLAN NOTES

1. THIS RECEPTACLE IS SERVED BY A GFF CIRCUIT BREAKER.
2. PROVIDE CONNECTION FOR SMART BOARD. COORDINATE EXACT LOCATION OF THIS DUPLEX RECEPTACLE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN.
3. PROVIDE A SINGLE POINT PUSH BUTTON TO SHUT OFF ALL POWER. WATER AND GAS SERVICES TO THIS ROOM. THE SINGLE POINT SHALL BE A RED MUSHROOM BUTTON FLUSH MOUNTED IN THE WALL. PROVIDE A CLEAR COVER OVER THE BUTTON THAT WILL ALARM LOCALLY WHEN RAISED. PROVIDE CONTACTORS AS REQUIRED FOR CONTROL OF ALL THE RECEPTACLE POWER WITHIN THIS ROOM. PROVIDE WIRING TO LOCATIONS AS DIRECTED BY THE PLUMBING CONTRACTOR FOR SIGNALING THE WATER AND GAS SHUT DOWN. COORDINATE THE EXACT LOCATION OF THIS SWITCH WITH THE OWNER AND ALL WIRING REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
4. PROVIDE L5-30 RECEPTACLE FOR FUTURE UPS UNIT TO SUPPORT DATA RACK EQUIPMENT. COORDINATE RECEPTACLE CONFIGURATION WITH IT REPRESENTATIVE AND COORDINATE FINAL LOCATION: WALL, RACK OR SUPPORTED FROM STRUCTURE ABOVE RACK LOCATION.
5. PROVIDE DUPLEX RECEPTACLE SUPPORTED FROM STRUCTURE AND MOUNTED FLUSH IN CEILING SURFACE ABOVE MAKER SPACE WORK SURFACE. PROVIDE SUPPORT FROM STRUCTURE FOR RETRACTABLE 30' CORD REEL, HUBBELL #HBLC30163TT (OR EQUIVALENT) AND PROVIDE SUFFICIENT BRACING TO MAINTAIN CEILING LOCATION. COORDINATE WORK SURFACE LOCATION WITH ARCHITECTURAL PLAN.

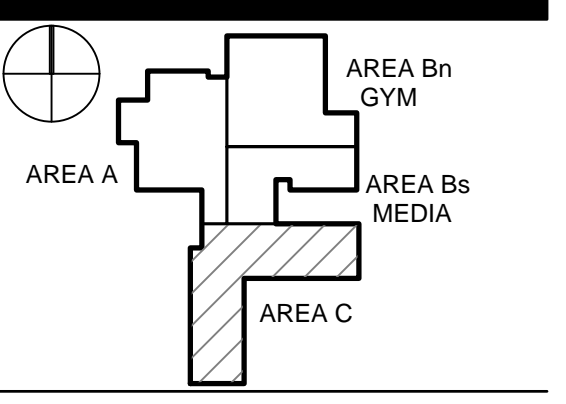


Date: June 7, 2018



TOWN CREEK MIDDLE SCHOOL

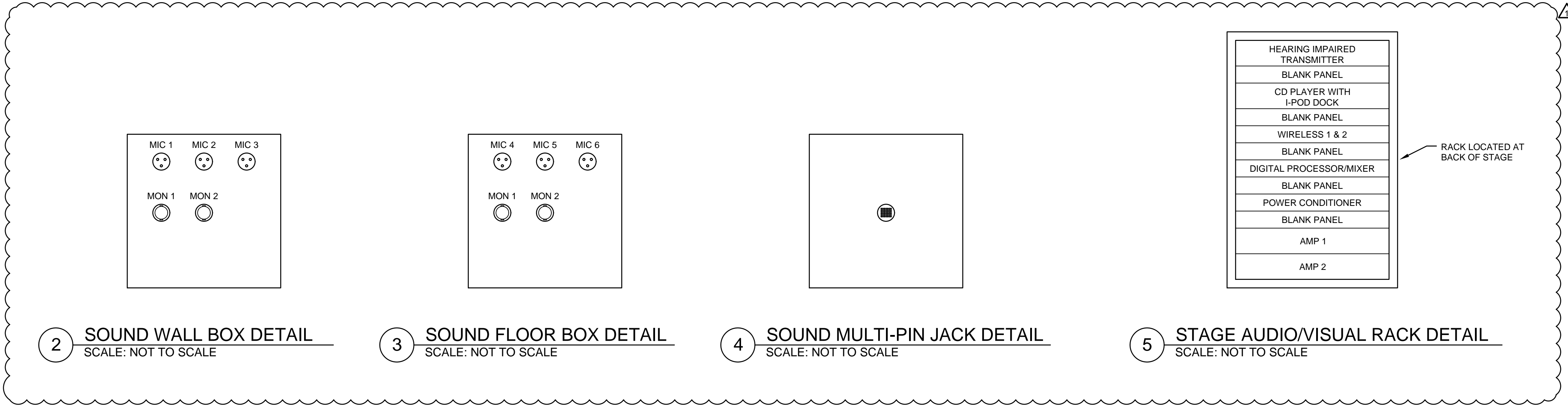
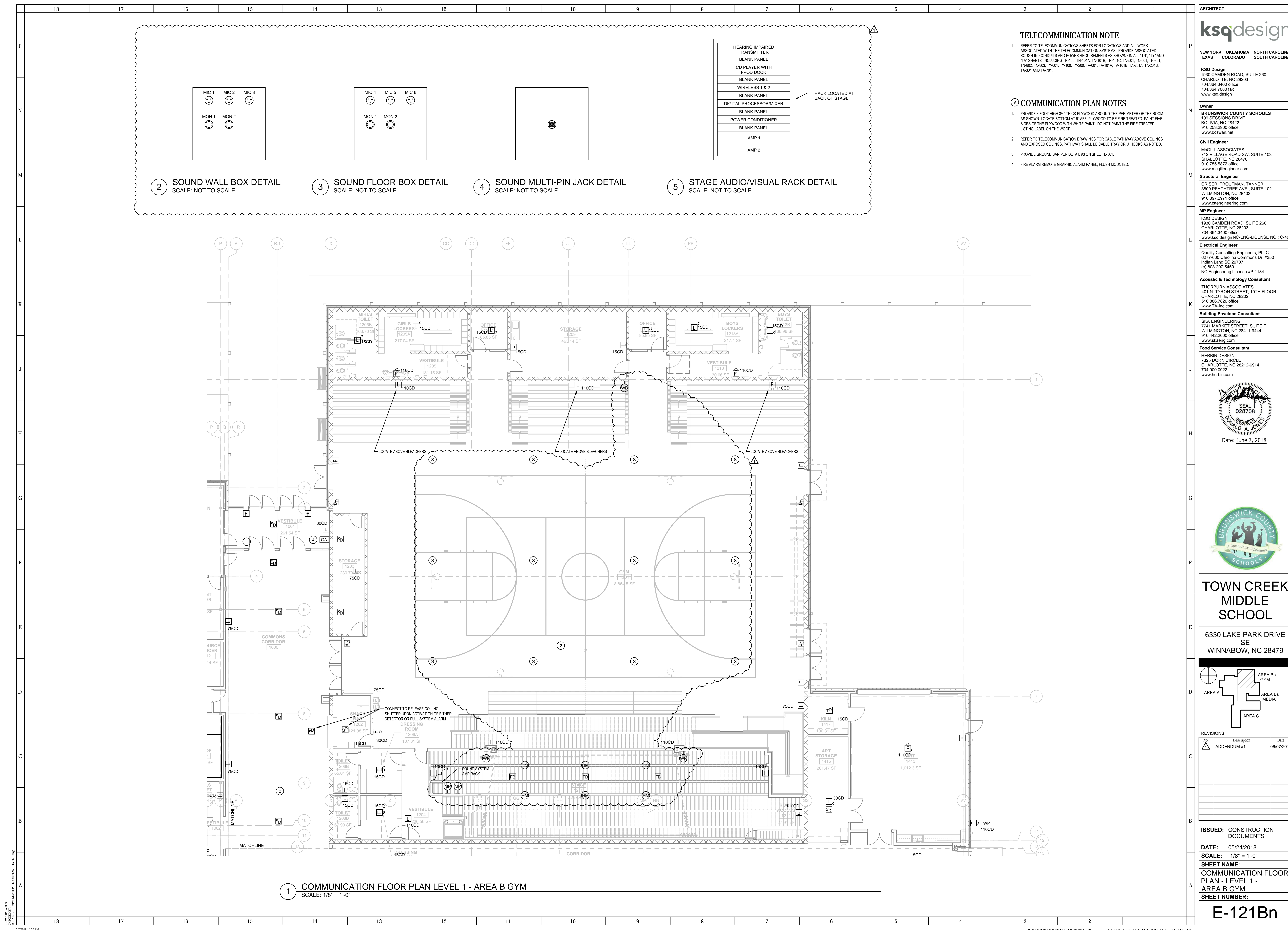
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No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: POWER FLOOR PLAN - LEVEL 1 - AREA C
SHEET NUMBER:



TELECOMMUNICATION NOTE

- REFER TO TELECOMMUNICATIONS SHEETS FOR LOCATIONS AND ALL WORK ASSOCIATED WITH THE TELECOMMUNICATION SYSTEMS. PROVIDE ASSOCIATED ROUGH-IN, CONDUITS AND POWER REQUIREMENTS AS SHOWN ON ALL "TY" AND "TA" SHEETS, INCLUDING TN-100, TN-101A, TN-101B, TN-101C, TN-501, TN-601, TN-801, TN-802, TN-803, TY-001, TY-100, TY-200, TA-001, TA-101A, TA-101B, TA-201A, TA-201B, TA-301 AND TA-701.

COMMUNICATION PLAN NOTES

- PROVIDE 8 FOOT HIGH 3/4" THICK PLYWOOD AROUND THE PERIMETER OF THE ROOM AS SHOWN. LOCATE BOTTOM AT 3' AFF. PLYWOOD TO BE FIRE TREATED, PAINT FIVE SIDES OF THE PLYWOOD WITH WHITE PAINT. DO NOT PAINT THE FIRE TREATED LISTING LABEL ON THE WOOD.
- REFER TO TELECOMMUNICATION DRAWINGS FOR CABLE PATHWAY ABOVE CEILING AND EXPOSED CEILING. PATHWAY SHALL BE CABLE TRAY OR 'J' HOOKS AS NOTED.
- PROVIDE GROUND BAR PER DETAIL #3 ON SHEET E-501.
- FIRE ALARM REMOTE GRAPHIC ALARM PANEL, FLUSH MOUNTED.

1 COMMUNICATION FLOOR PLAN LEVEL 1 - AREA B GYM
SCALE: 1/8" = 1'-0"

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A. JONES
Date: June 7, 2018

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A Community of Learners

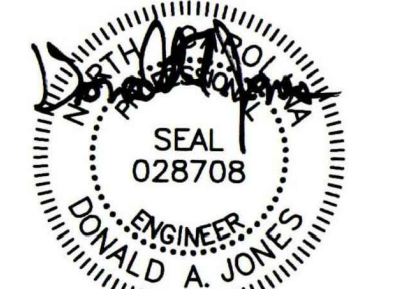
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6330 LAKE PARK DRIVE SE
WINNABOW, NC 28479

AREA A
AREA Bn GYM
AREA Bs MEDIA
AREA C

No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B GYM
SHEET NUMBER: E-121Bn

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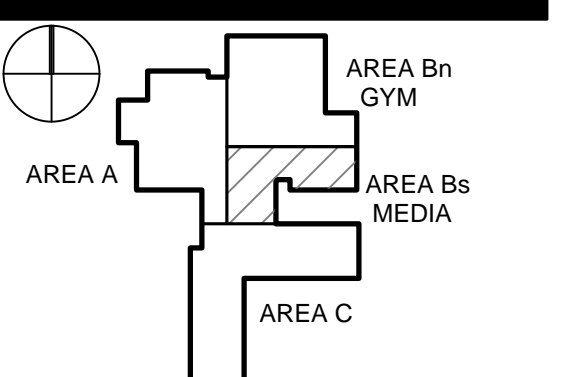


Date: June 7, 2018



TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE
WINNABOW, NC 28479



No.	Description	Date
1	ADDENDUM #1	06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SCALE: 1/8" = 1'-0"

SHEET NAME:
COMMUNICATION FLOOR PLAN - LEVEL 1 - AREA B MEDIA

SHEET NUMBER:

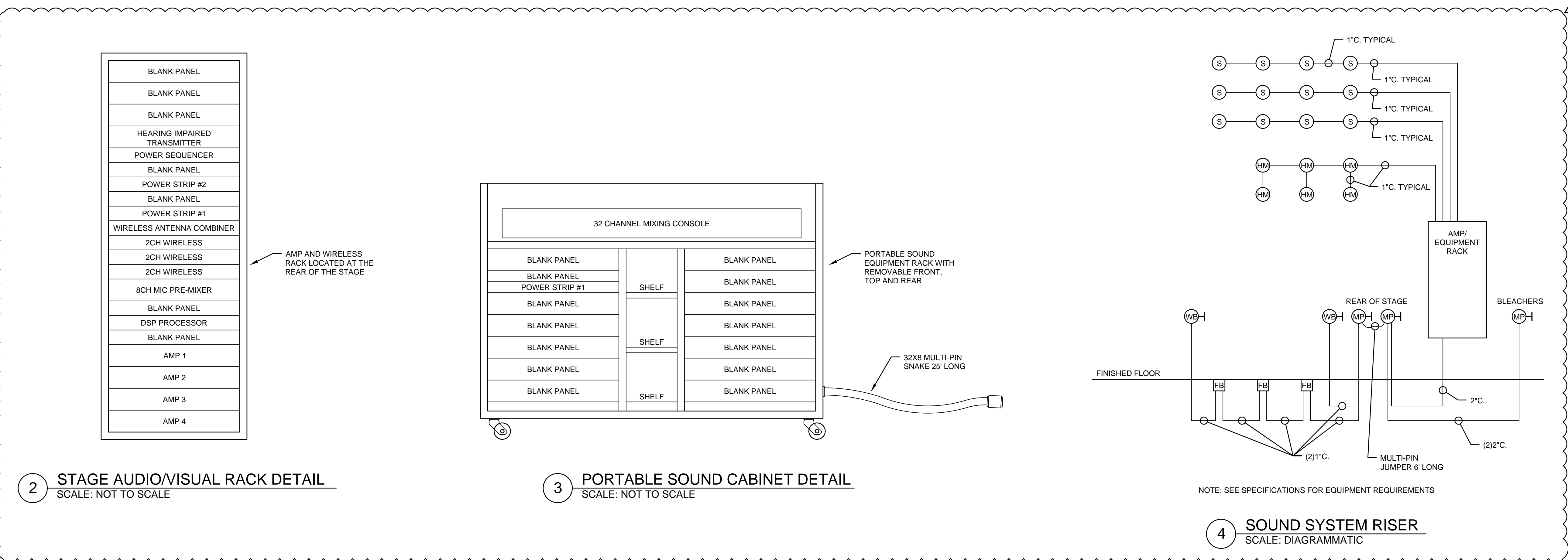
E-121Bs

TELECOMMUNICATION NOTE

1. REFER TO TELECOMMUNICATIONS SHEETS FOR LOCATIONS AND ALL WORK ASSOCIATED WITH THE TELECOMMUNICATION SYSTEMS. PROVIDE ASSOCIATED ROUGH-IN, CONDUITS AND POWER REQUIREMENTS AS SHOWN ON ALL "TY" AND "TA" SHEETS, INCLUDING TN-100, TN-101A, TN-101B, TN-101C, TN-501, TN-601, TN-801, TN-802, TN-803, TY-001, TY-100, TY-200, TA-001, TA-101A, TA-101B, TA-201A, TA-201B, TA-301 AND TA-701.

COMMUNICATION PLAN NOTES

1. PROVIDE 8 FOOT HIGH 3/4" THICK PLYWOOD AROUND THE PERIMETER OF THE ROOM AS SHOWN. LOCATE BOTTOM AT 3' AFF. PLYWOOD TO BE FIRE TREATED, PAINT FIVE SIDES OF THE PLYWOOD WITH WHITE PAINT. DO NOT PAINT THE FIRE TREATED LISTING LABEL ON THE WOOD.
2. REFER TO TELECOMMUNICATION DRAWINGS FOR CABLE PATHWAY ABOVE CEILING AND EXPOSED CEILING. PATHWAY SHALL BE CABLE TRAY OR J HOOKS AS NOTED.



2 STAGE AUDIO/VISUAL RACK DETAIL
SCALE: NOT TO SCALE

3 PORTABLE SOUND CABINET DETAIL
SCALE: NOT TO SCALE

4 SOUND SYSTEM RISER
SCALE: DIAGRAMMATIC



1 COMMUNICATION FLOOR PLAN LEVEL 1 - AREA B MEDIA
SCALE: 1/8" = 1'-0"



NEW YORK OKLAHOMA NORTH CAROLINA TEXAS COLORADO SOUTH CAROLINA

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Structural Engineer CRISLER, TROUTMAN, TANNER 3809 PEACHTREE AVE., SUITE 102 WILMINGTON, NC 28403 910.397.2971 office www.ctengineering.com

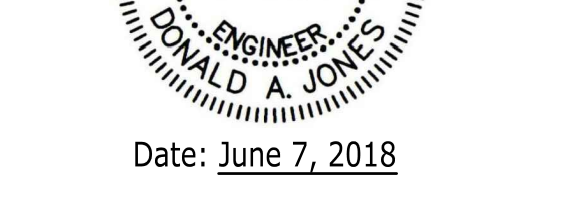
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Building Envelope Consultant SKA ENGINEERING 7741 MARKET STREET, SUITE F WILMINGTON, NC 28411-9444 910.442.2000 office www.skaeng.com

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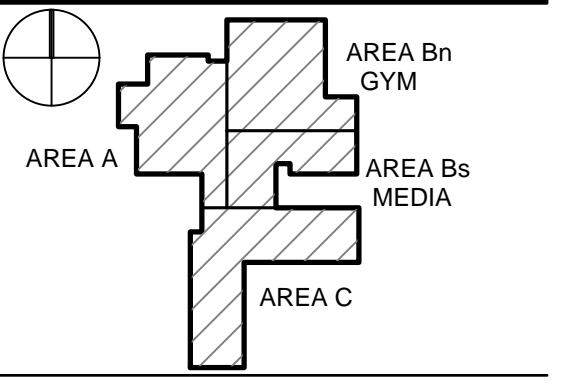


Date: June 7, 2018



TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE WINNABOW, NC 28479



REVISIONS table with columns: No., Description, Date. Includes ADDENDUM #1 dated 06/07/2018.

ISSUED: CONSTRUCTION DOCUMENTS DATE: 05/24/2018 SCALE: NONE SHEET NAME: PANELBOARD SCHEDULES SHEET NUMBER: E-402

PANEL " LKB " LOCATION: KITCHEN. S.E. LABEL: NO 225 AMP MAIN BREAKER. Includes load schedule, lighting, and equipment details.

PANEL " LKA " LOCATION: MAIN ELEC. ROOM. S.E. LABEL: NO 400 AMP MAIN BREAKER. Includes load schedule, lighting, and equipment details.

PANEL " HKA " LOCATION: KITCHEN. S.E. LABEL: NO 277 / 480 VOLT. Includes load schedule, lighting, and equipment details.

PANEL " L1C " LOCATION: ROOM 1415. S.E. LABEL: NO 225 AMP MAIN BREAKER. Includes load schedule, lighting, and equipment details.

PANEL " L1B " LOCATION: ROOM 1503. S.E. LABEL: NO 225 AMP MAIN BREAKER. Includes load schedule, lighting, and equipment details.

PANEL " UDS " LOCATION: HOOD COLUMN. S.E. LABEL: NO 90 AMP MAIN BREAKER. Includes load schedule, lighting, and equipment details.

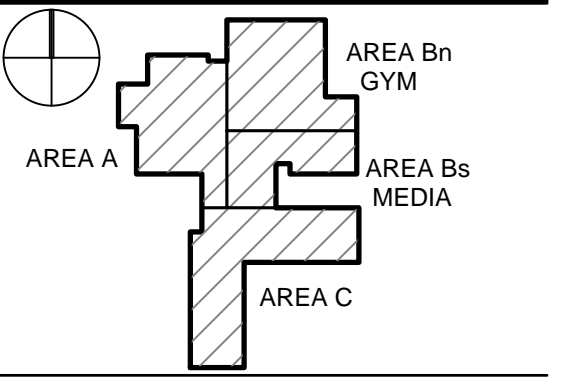
Vertical labels on the left margin: P, N, M, L, K, J, H, G, F, E, D, C, B, A

Vertical labels on the right margin: P, N, M, L, K, J, H, G, F, E, D, C, B, A



TOWN CREEK MIDDLE SCHOOL

6330 LAKE PARK DRIVE SE WINNABOW, NC 28479



REVISIONS table with columns: No., Description, Date. Row 1: ADDENDUM #1, 06/07/2018

ISSUED: CONSTRUCTION DOCUMENTS DATE: 05/24/2018 SCALE: NONE SHEET NAME: PANELBOARD SCHEDULES SHEET NUMBER: E-403

PANEL H1D: FED FROM: HDP. LOCATION: ELEC. ROOM 1803. Includes load schedule table with columns for Description, Wire Size, L, R, M.A.E.O., and Demand. Includes summary table for Connected, Demand, and Total loads.

NOTES: 1. SUB-FED LOADS SHOWN IN TOTAL CALCULATION, NOT AT BREAKER. 2. CONTROL CIRCUIT THROUGH COMMON PHOTOCELL AND CONTACTOR FOR DUSK-TO-DAWN OPERATION.

PANEL L1DP: FED FROM: T1. LOCATION: ELEC. ROOM 1803. Includes load schedule table with columns for Description, Wire Size, L, R, M.A.E.O., and Demand. Includes summary table for Connected, Demand, and Total loads.

NOTES: 1. SUB-FED LOADS SHOWN IN TOTAL CALCULATION, NOT AT BREAKER.

PANEL L1D: FED FROM: L1DP. LOCATION: ELEC. ROOM 1803. Includes load schedule table with columns for Description, Wire Size, L, R, M.A.E.O., and Demand. Includes summary table for Connected, Demand, and Total loads.

NOTES: 1. PROVIDE RED HANDLE AND LOCKING HASP TO LOCK BREAKER IN "ON" POSITION. 2. PROVIDE GROUND-FAULT PROTECTED BREAKER.

PANEL L1E: FED FROM: L1DP. LOCATION: ROOM 1707. Includes load schedule table with columns for Description, Wire Size, L, R, M.A.E.O., and Demand. Includes summary table for Connected, Demand, and Total loads.

NOTES: 1. PROVIDE RED HANDLE AND LOCKING HASP TO LOCK BREAKER IN "ON" POSITION.

PANEL L1F: FED FROM: L1DP. LOCATION: ROOM 1813. Includes load schedule table with columns for Description, Wire Size, L, R, M.A.E.O., and Demand. Includes summary table for Connected, Demand, and Total loads.

NOTES: 1. PROVIDE RED HANDLE AND LOCKING HASP TO LOCK BREAKER IN "ON" POSITION.

MISCELLANEOUS EQUIPMENT CONNECTION SCHEDULE								
ABBREV.	DESCRIPTION	LOCATION	BRANCH CIRCUIT	HP	KW	AMPS	VOLTS/PHASE	NOTE
BA	BACKSTOP ADJUSTMENT	GYM	SEE PLANS	0.25	-	-	120/1	1
BG	FOLDING BASKETBALL GOALS	GYM	SEE PLANS	0.75	-	-	208/1	2
BL	FLOATING BLEACHERS	GYM	SEE PLANS	1	-	-	120/1	3
BM	BUILDING MGMT BAS PANEL	1107, 1507, 1826, 2806	SEE PLANS	-	0.2	-	120/1	10
CL	CHAIR LIFT	GYM STAGE	SEE PLANS	2	-	16	208/1	10
CS	COILING SHUTTER	SNACK BAR	SEE PLANS	0.25	-	-	120/1	9
DB	DELIVERY DOORBELL	KITCHEN	SEE PLANS	-	0.2	-	120/1	11
DO	MOTORIZED DOOR OPERATOR	ENTRY	SEE PLANS	-	0.4	-	120/1	10
DR	DRYER	MISC.	SEE PLANS	-	5.0	-	208/1	8
ELH	ELEVATOR CAB HVAC	CORRIDOR 2800	SEE PLANS	-	0.5	-	120/1	13
ELL	ELEVATOR CAB LIGHTING	CORRIDOR 2800	SEE PLANS	-	0.2	-	120/1	13
ELM	ELEVATOR MOTOR	CORRIDOR 2800	SEE PLANS	25	-	-	460/3	13
FF	FLY FAN	KITCHEN	SEE PLANS	0.25	-	-	120/1	10
FS	FAUCET SENSORS	MISC.	SEE PLANS	-	0.2	-	120/1	6
GD	GYM DIVIDER	GYM	SEE PLANS	1	-	-	120/1	10
HD	HAND DRYER	GROUP RESTROOMS	SEE PLANS	-	1.4	11.7	120/1	7
HL	KITCHEN EXHAUST HOOD LIGHTS	KITCHEN	SEE PLANS	-	0.6	-	120/1	10
KI	KILN	ART	SEE PLANS	-	14.3	46.7	208/3	10
SB	BASKETBALL SCOREBOARD	GYM	SEE PLANS	-	0.6	-	120/1	4
SC	BASKETBALL SHOT CLOCK	GYM	SEE PLANS	-	0.4	-	120/1	5
ML	MAT LIFT	GYM	SEE PLANS	1	-	-	208/1	10
PP	PUSH PLATE FOR DOOR OPERATOR	ENTRY	SEE PLANS	-	0.01	-	120/1	10
PS	PROJECTOR SCREEN AND PROJECTOR	GYM, MEDIA	SEE PLANS	-	0.75	-	120/1	12

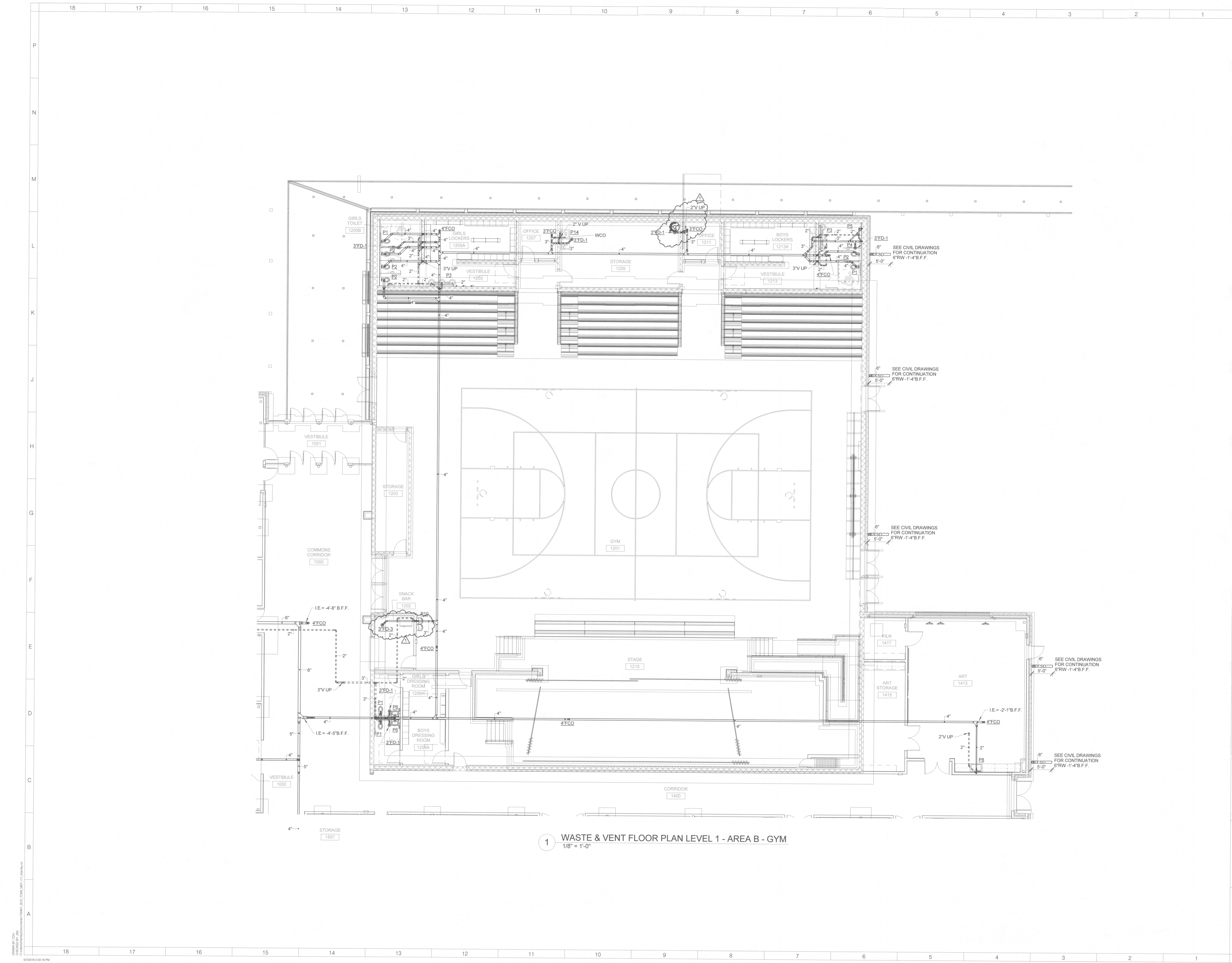
GENERAL MISCELLANEOUS CONNECTION NOTES:

- EQUIPMENT LOCATIONS OF THIS MAY VARY OR MAY NOT BE SHOWN ON THE ELECTRICAL FLOOR PLANS. COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH THE GENERAL CONTRACTOR OR EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.
- COORDINATE THE EXACT WIRING, CONTROL AND OVER-CURRENT PROTECTION REQUIREMENTS WITH THE ASSOCIATED CONTRACTOR(S) PRIOR TO ROUGH IN. VERIFY THE EXACT LOCATION AND NUMBER. MAKE FINAL CONNECTIONS IN LIQUID TIGHT FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT.

MISCELLANEOUS CONNECTION SCHEDULE NOTES:

- PROVIDE TWIST-LOCK CORD-AND-PLUG ASSEMBLY ADJACENT TO BACKSTOP ADJUSTMENT MOTOR AND COORDINATE CONTROL SWITCH REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- CONNECT TO FOLDING BASKETBALL BACKBOARDS. INSTALL AND CONNECT TO SIX FLUSH-MOUNT CONTROL STATIONS SUPPLIED BY THE GENERAL CONTRACTOR. LOCATE CONTROL STATIONS IN GYMNASIUM AS DIRECTED. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF THE CONTROL STATIONS PRIOR TO ROUGH IN. MAKE FINAL CONNECTIONS TO THE FOLDING BACKBOARD MOTORS WITH LIQUID TIGHT FLEXIBLE CONDUIT AND PROVIDE 14-20 TWIST-LOCK RECEPTACLE ADJACENT MOTOR. VERIFY THE MOTOR HORSE POWER AND VOLTAGE PRIOR TO ROUGH IN. PROVIDE BUCKBOOST TRANSFORMERS IF NECESSARY. ADJUST THE CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED.
- CONNECT TO FOLDING BLEACHERS. INSTALL AND WIRE FOUR FLUSH-MOUNTED CONTROL STATIONS SUPPLIED BY THE GENERAL CONTRACTOR. LOCATE CONTROL STATIONS SUPPLIED BY THE GENERAL CONTRACTOR. LOCATE CONTROL STATIONS IN GYMNASIUM AS DIRECTED. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF THE CONTROL STATIONS PRIOR TO ROUGH IN. MAKE FINAL CONNECTIONS. TO THE FOLDING BLEACHER MOTORS WITH LIQUID TIGHT FLEXIBLE CONDUIT. VERIFY THE MOTOR HORSE POWER AND VOLTAGE PRIOR TO ROUGH IN. ADJUST THE CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED.
- CONNECT TO SCOREBOARD. PROVIDE FLUSH MOUNTED RECEPTACLE ACCORDING TO EQUIPMENT SUPPLIER. WIRE TO THE SAME BRANCH CIRCUIT AS THE SHOT CLOCKS TO ALLOW A SINGLE POINT TO TURN OFF. WIRE SCOREBOARDS AND SHOT CLOCK BRANCH CIRCUIT TO A SINGLE POLE SWITCH.
- CONNECT TO SHOT CLOCK. PROVIDE RECEPTACLE MOUNTED TO THE MOTORIZED BACKBOARD STRUCTURE TO SERVE THE SHOT CLOCK. COORDINATE WITH THE EQUIPMENT SUPPLIER FOR RECEPTACLE MOUNTING LOCATION AND EQUIPMENT WIRING AND ROUTING ALONG FOLDING BACKBOARD. WIRE TO THE SAME BRANCH CIRCUIT AS THE SCOREBOARDS TO ALLOW A SINGLE POINT TO TURN OFF AND TO RESET. THE SHOT CLOCK IS WIFI CONNECTED.
- CONCEAL ALL WIRING IN WALL AND TIGHT WITHIN THE PLUMBING FIXTURES. NO WIRING SHALL BE EXPOSED TO THE PUBLIC VIEW. COORDINATE THE EXACT NUMBER AND WIRING REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN. PROVIDE HARD CONNECTIONS, LOW-VOLTAGE TRANSFORMER OR RECEPTACLE AS REQUIRED BY THE PLUMBING CONTRACTOR.
- CONCEAL ALL WIRING IN WALL. COORDINATE THE EXACT NUMBER AND LOCATIONS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN. PROVIDE HARD WIRED CONNECTION. PROVIDE A GFP TYPE CIRCUIT BREAKER TO SERVE THE EQUIPMENT.
- PROVIDE CONNECTION FOR RESIDENTIAL DRYER, 240/120 VOLTS, 30 AMP SERVICE. PROVIDE A 208 TO 240 VOLT BUCKBOOST TRANSFORMER ABOVE PANELBOARD TO SERVE THE NEMA 14-30R DRYER RECEPTACLE. COORDINATE THE EXACT CIRCUIT BREAKER SIZE, WIRE SIZE, TRANSFORMER SIZE AND PLUS CONFIGURATION WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.
- PROVIDE CONNECTION TO COILING SHUTTER AND CONNECT TO CONTROL SWITCH. PROVIDE MEANS OF DISCONNECT ADJACENT TO MOTOR. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF THE CONTROL STATIONS PRIOR TO ROUGH IN. PROVIDE INTERLOCK WITH SMOKE DETECTORS AND FIRE ALARM SYSTEM SO THAT WHEN SMOKE DETECTOR ON EITHER SIDE OF OPENING IS ACTIVATED, RATED COILING SHUTTER WILL AUTOMATICALLY RELEASE AND CLOSE.
- PROVIDE CONNECTION TO EQUIPMENT ACCORDING TO MANUFACTURER INSTALLATION REQUIREMENTS. PROVIDE DISCONNECT IF NOT SUPPLIED WITH EQUIPMENT. COORDINATE CONTROL DEVICE REQUIREMENTS AND PROVIDE ALL FINAL CONNECTIONS.
- PROVIDE AND INSTALL TWO-TONE DOORBELL FOR DELIVERY ARRIVALS AND PROVIDE WITH ONE CHIME DEVICE IN KITCHEN AND ONE CHIME DEVICE IN SERVING AREA. PROVIDE WEATHERPROOF MOMENTARY PUSHBUTTON AT EXTERIOR DOOR AND PROVIDE ALL ACCESSORIES AND CONNECTIONS FOR COMPLETE INSTALLATION.
- MOTORIZED PROJECTOR SCREEN WITH CONTROL STATION AND CEILING-HUNG PROJECTOR. PROVIDE AND CONNECT ADJACENT DISCONNECT, SCREEN MOTOR AND INSTALL AND CONNECT FLUSH-MOUNTED CONTROL STATION. PROVIDE POWER CONNECTION FOR THE CEILING HUNG PROJECTOR. COORDINATE THE EXACT WIRING REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. PROVIDE ADDITIONAL EMPTY CONDUIT BETWEEN THE PROJECTOR AND THE SCREEN AS REQUIRED BY THE EQUIPMENT SUPPLIER. COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT WITH THE OWNER PRIOR TO ROUGH IN.
- PROVIDE CONNECTION TO MACHINE-ROOM-LESS ELEVATOR EQUIPMENT. PROVIDE DISCONNECT IF NOT PROVIDED WITH EQUIPMENT. COORDINATE ALL CONNECTION LOCATIONS AND REQUIREMENTS WITH VENDOR OF EQUIPMENT SUPPLIED.

M-P EQUIPMENT CONNECTION SCHEDULE																
GENERAL INFORMATION		LOAD INFORMATION					DISCONNECT INFORMATION								NOTES	
CONNECTION DESIGNATION	DESCRIPTION	VOLTS/PHASE	HP	KW/KVA	FLA	MCA	MOCF	FURNISHED BY	INSTALLED BY	TYPE	AMP RATING	POLES	TRIP/FUSE SIZE	NEMA ENCLOSURE	NOTE #	
EF-1	EXHAUST FAN AREA-A ROOF	120/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-2	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-3	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-4	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-5	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-6	EXHAUST FAN CEILING	115/1	1/4	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-7	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-8	EXHAUST FAN AREA-A ROOF	115/1	1/6	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-9	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-10	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-11	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-12	EXHAUST FAN AREA-A ROOF	115/1	1/10	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-13	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-14	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-15	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-16	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-17	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-18	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-19	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-20	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-21	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-22	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-23	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-24	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-25	EXHAUST FAN CEILING	115/1	1/2	-	0.020	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-26	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-27	EXHAUST FAN AREA-A ROOF	115/1	1/2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EF-28	EXHAUST FAN AREA-A ROOF	115/1	1/4	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-1	ENERGY RECOVERY UNIT AREA B ROOF	460/3	-	-	-	11.2	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-2	ENERGY RECOVERY UNIT AREA B ROOF	460/3	-	-	-	11.2	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-3	ENERGY RECOVERY UNIT AREA B ROOF	460/3	-	-	-	4	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
ERV-4	ENERGY RECOVERY UNIT AREA A ROOF	460/3	-	-	-	8	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-1	UNIT HEATER 1311 PLUMBING	120/1	-	-	-	1.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-2	UNIT HEATER 1319 ELECTRICAL	120/1	-	-	-	1.8	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-1	UNIT HEATER 1001 VESTIBULE	277/1	-	-	-	5.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-2	UNIT HEATER 1712 STAIRS	277/1	-	-	-	4.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
EUH-3	UNIT HEATER 1828 STAIRS	277/1	-	-	-	4.0	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
HP-1	SPLIT SYSTEM HEAT PUMP (OUTDOOR)	208/1	-	-	-	0.145	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KMU-1	HOOD 1 MAKE UP FAN KITCHEN ROOF	460/3	1-1/2	-	-	4.1	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KMU-2	HOOD 2 MAKE UP FAN KITCHEN ROOF	460/3	1-1/2	-	-	4.1	15	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KHEP-1	EXHAUST FAN KITCHEN ROOF	208/1	2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
KHEP-2	EXHAUST FAN KITCHEN ROOF	208/1	2	-	-	-	-	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-1	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-2	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-3	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-4	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	54.0	70	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-5	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-6	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	15.2	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-7	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-8	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	54.0	70	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-9	ROOF TOP UNIT AREA-B ROOF	460/3	-	-	-	21.8	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-10	ROOF TOP UNIT AREA-A ROOF	460/3	-	-	-	35	45	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-11	ROOF TOP UNIT KITCHEN ROOF	460/3	-	-	-	22.7	25.9	35	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4
RTU-12	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	15.1	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-13	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.6	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-14	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-15	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	19.9	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-16	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	15.1	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-17	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.6	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-18	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	13.7	20	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-19	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-20	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-21	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.9	30	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-22	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	21.6	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT	N/A	N/A	N/A	N/A	1.4	
RTU-23	ROOF TOP UNIT AREA-C ROOF	460/3	-	-	-	19.9	25	EQUIP. MFR.	EQUIP. MFR.	UNIT-MOUNTED DISCONNECT						



1 WASTE & VENT FLOOR PLAN LEVEL 1 - AREA B - GYM
1/8" = 1'-0"

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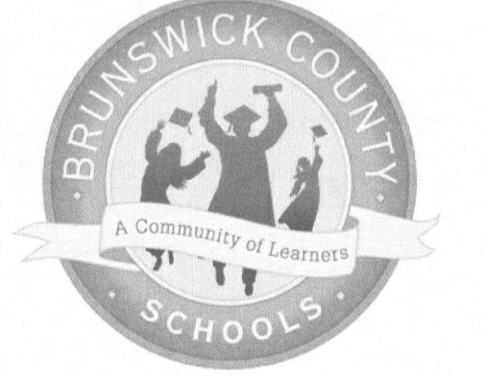
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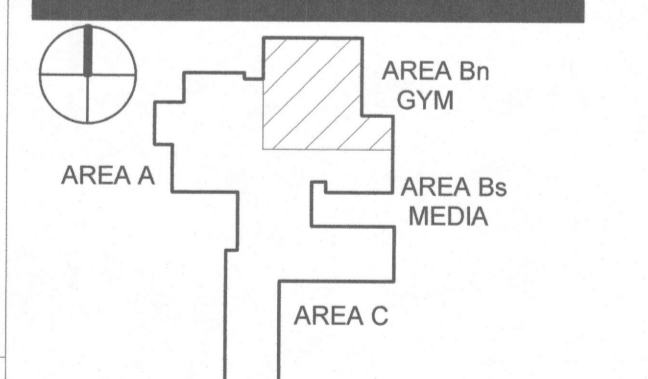
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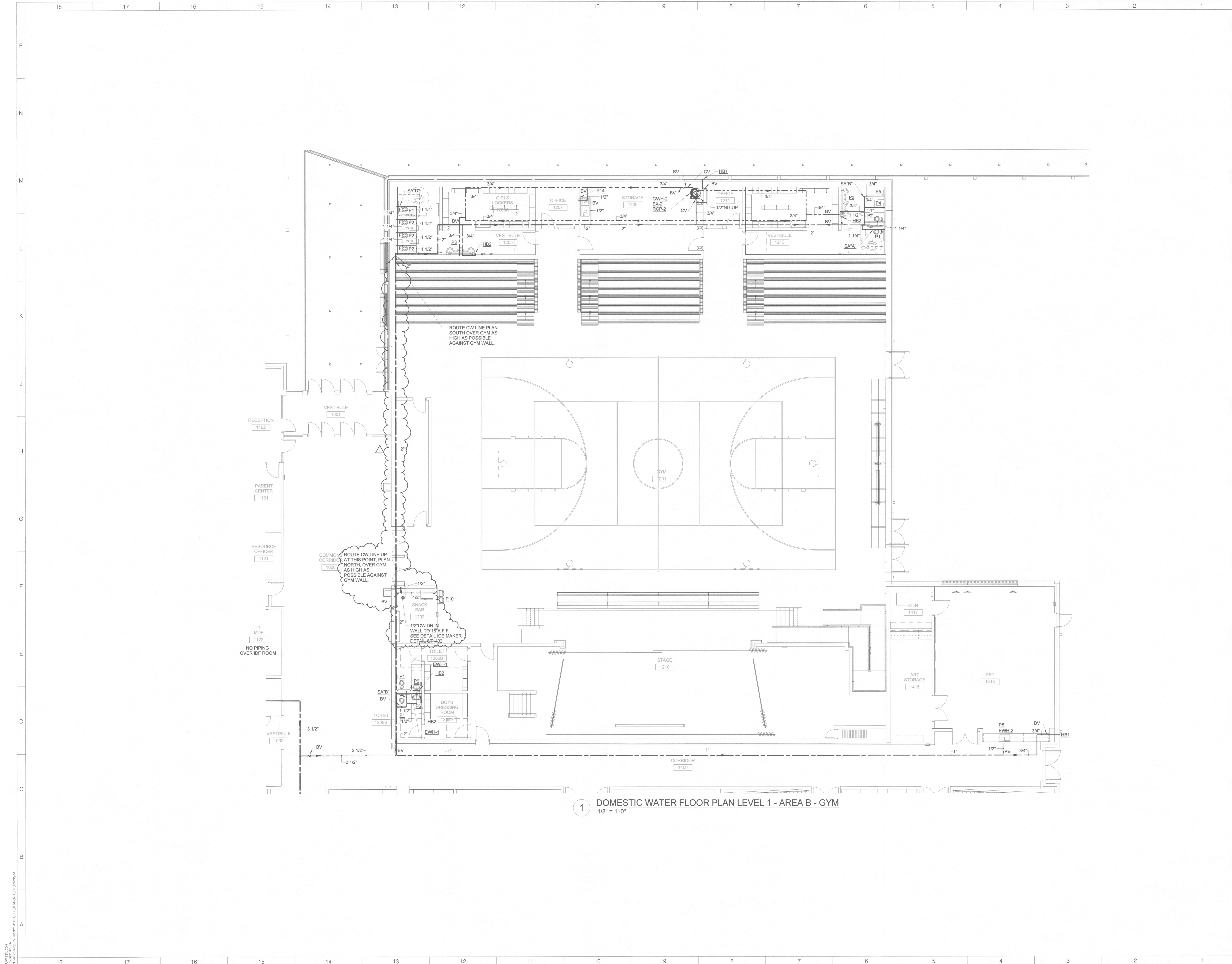
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No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: WASTE AND VENT FLOOR PLAN - LEVEL 1 - AREA B GYM
SHEET NUMBER:

P-101Bn



1 DOMESTIC WATER FLOOR PLAN LEVEL 1 - AREA B - GYM
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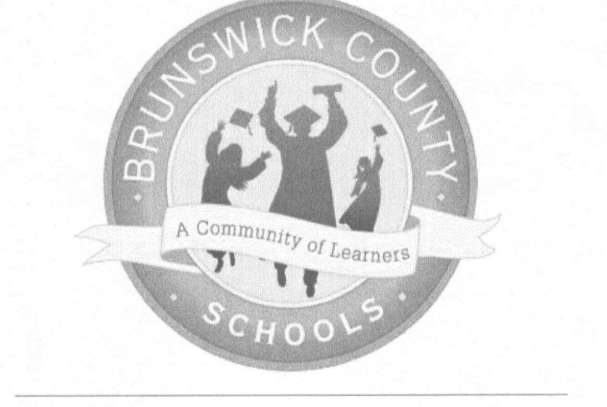
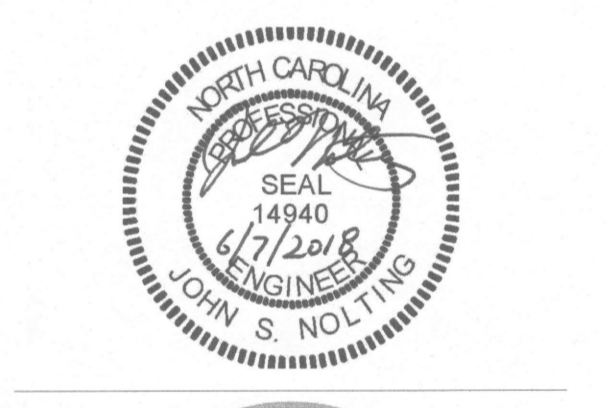
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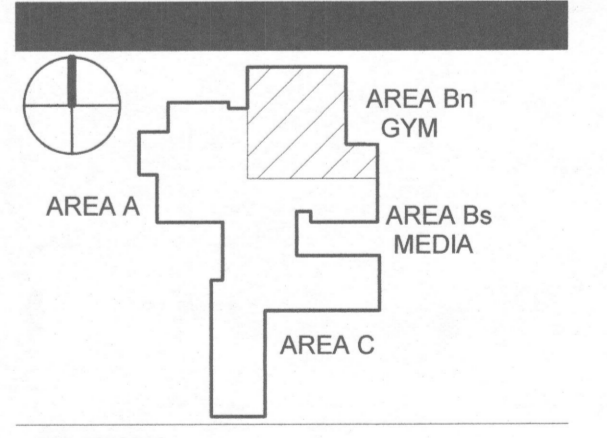
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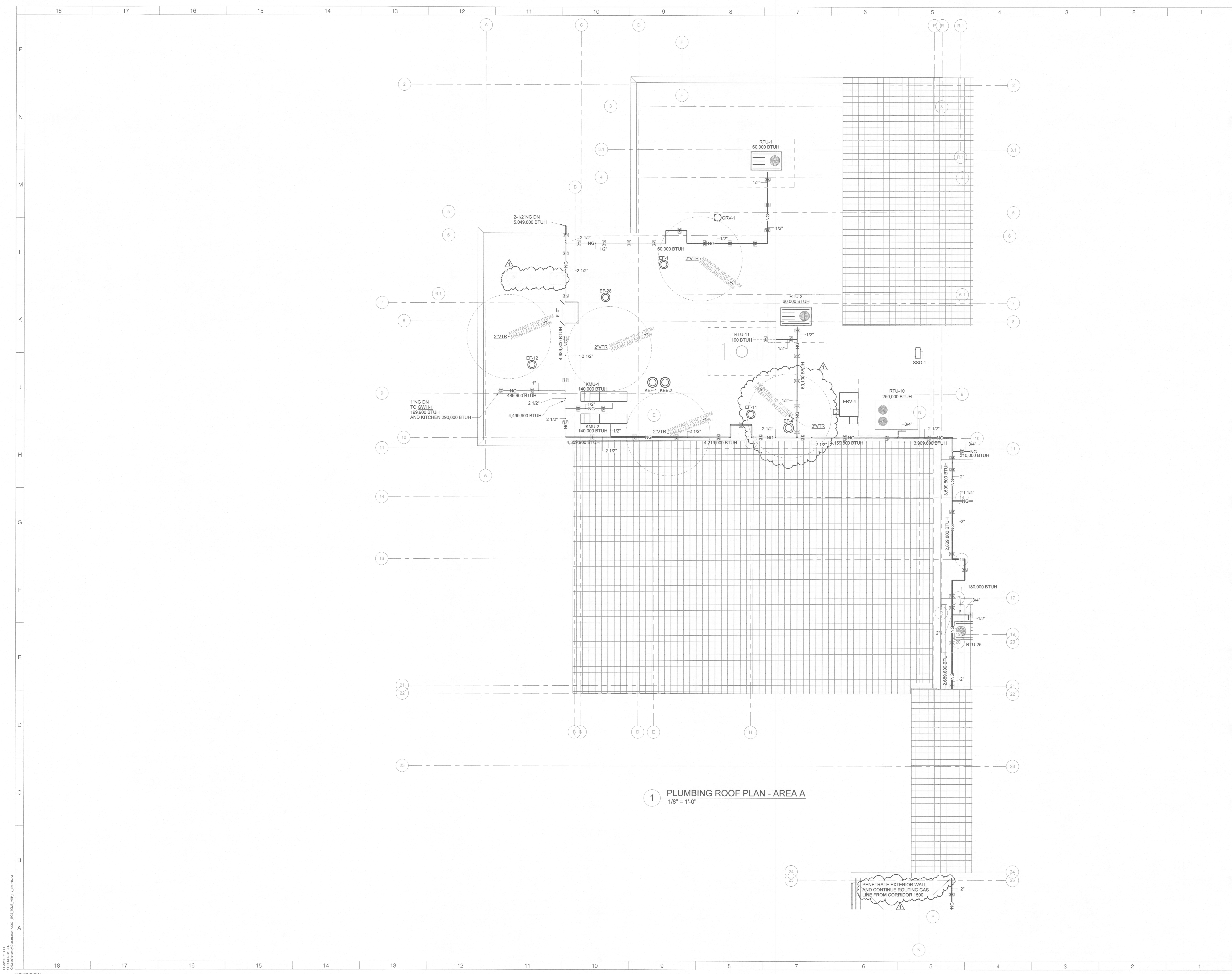


REVISIONS

No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"

SHEET NAME:
DOMESTIC WATER FLOOR PLAN - LEVEL 1 - AREA B GYM
SHEET NUMBER:
P-111Bn



1 PLUMBING ROOF PLAN - AREA A
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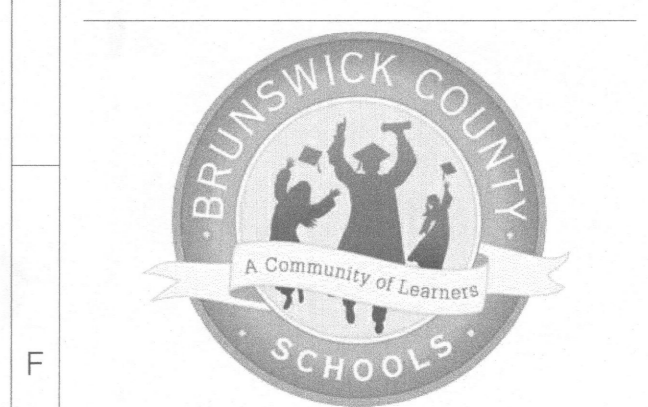
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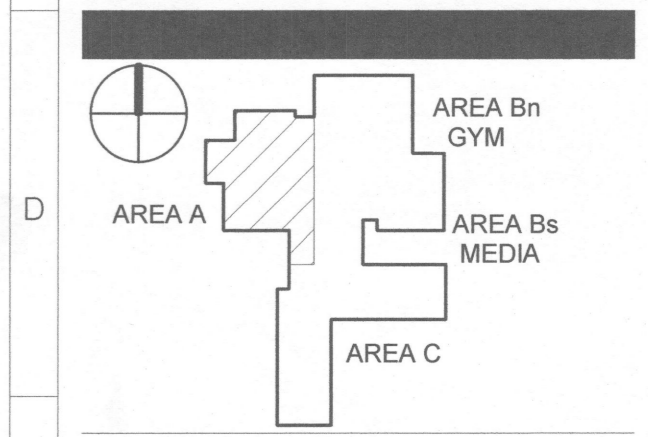
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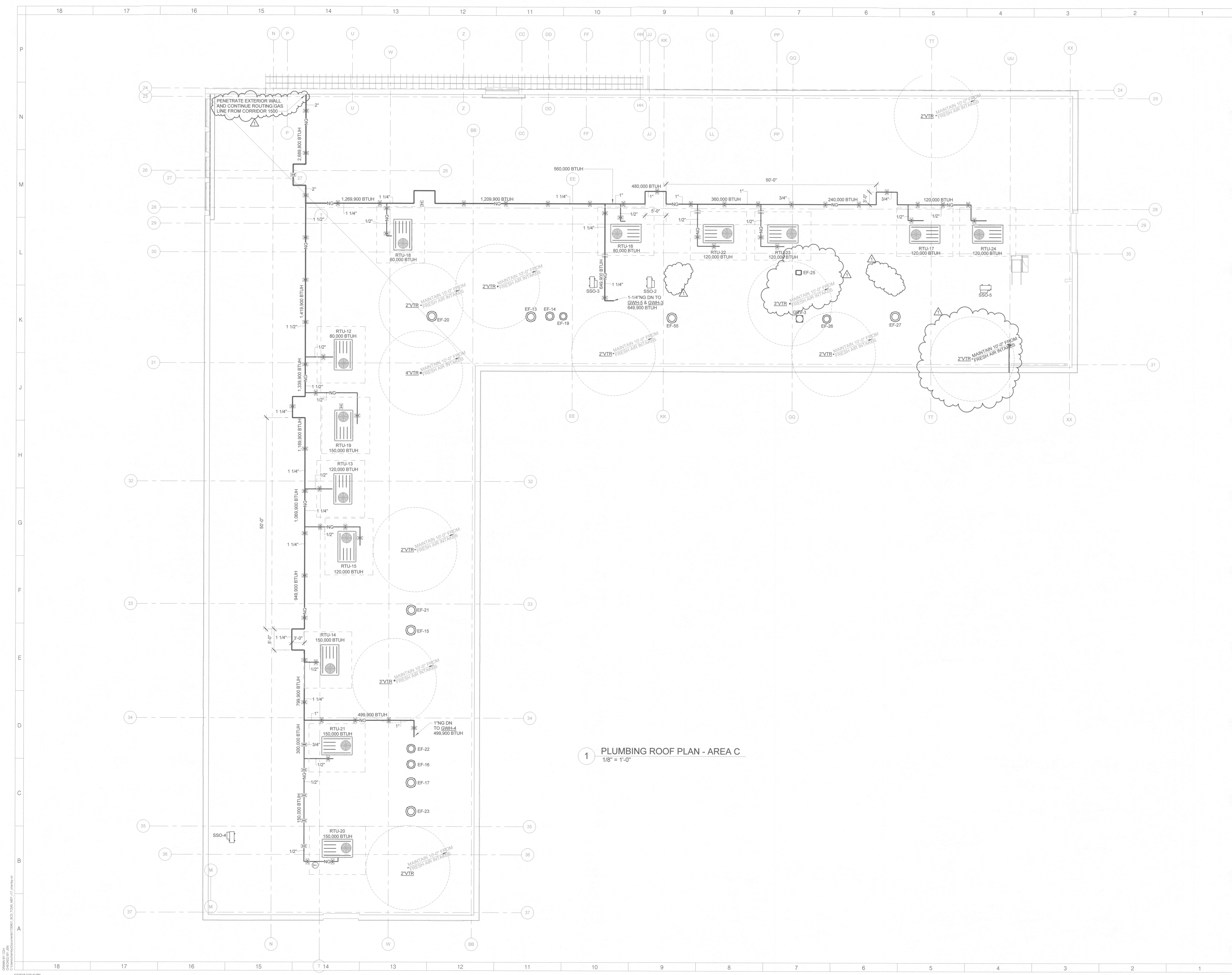
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No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: PLUMBING ROOF PLAN - AREA A
SHEET NUMBER:

P-121A

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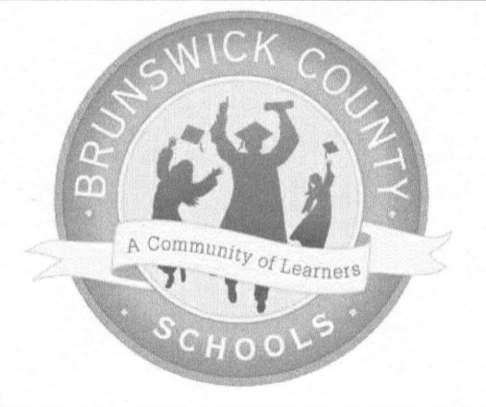
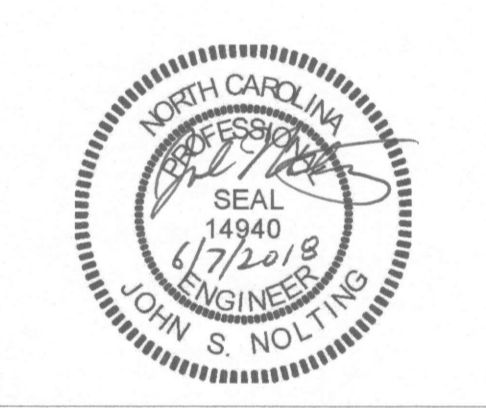
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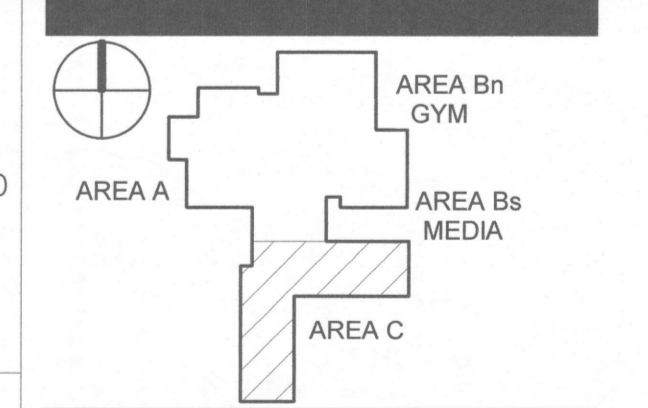
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REVISIONS

No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: PLUMBING ROOF PLAN - AREA C
SHEET NUMBER:

P-121C

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 PROJECT NUMBER: 1720601.00
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PLUMBING FIXTURE SCHEDULE CONTINUED

SYMBOL	DESCRIPTION	CONNECTIONS				SPECIFICATIONS	REMARKS
		W	V	CW	HW		
P16	CAN WASH	3"	2"	3/4"	3/4"	MOP SINK - FLORESTONE MODEL 81 "TERRAZZO" 36"x36"x6". FAUCET - WOODFORD MODEL HC867 FREEZELESS HOT AND COLD MIXER WALL HYDRANT WITH AUTOMATIC DRAINING AND HOSE CONNECTION BACKFLOW PREVENTION. HYDRANT DRAINS WHEN SHUT OFF. EVEN IF HOSE IS ATTACHED. HYDRANT IS ENCLOSED IN A FLUSH MOUNTED LOCKABLE WALL BOX. 3/4" FPT HOT AND COLD INLETS WITH INTEGRAL CHECK VALVES.	
DSB	DOWNSPOUT BOOT STORM DRAIN	---	---	---	---	DOWNSPOUT BOOT - PIEDMONT PIPE 86-24 6"x6" DOWNSPOUT BOOT FABRICATED FROM 304 STAINLESS STEEL. PIEDMONT PIPE 7907 COMMERCE DR. DENVER, NC 28037	COORDINATE OUTLET INVERT WITH CIVIL DESIGN
DB-1	DRAIN BOX	2"	2"	1/2"	1/2"	GUY GREY - MODEL T200LV CENTER DRAIN WHITE POWDER COATED STEEL WASHING MACHINE BOX WITH 2" WASTE CONNECTION	MOUNT AS LOW AS POSSIBLE TO ALLOW P-TRAP INSTALLATION
NOTES: (A) PROVIDE TRUEBO 'LAV-GUARD' INSULATING SAFETY COVERS FOR HOT AND COLD WATER SUPPLIES, DRAIN AND P-TRAP. COLOR SHALL MATCH THE FIXTURE. COORDINATE WITH PROJECT ARCHITECT. SPECIFIED PRODUCTS: AMER STD PLUMBING FIXTURES CHICAGO MANUAL FAUCETS MCGUIRE TRAPS & STOPS SLOAN FLUSH VALVE BEIMS CLOSET SEATS ZURN FLOOR DRAINS KOHLER/ZURN T&S BRASS/DELTA BRASS CRAFT/CHICAGO ZURN CHURCH/SONITE JR SMITH/JOSAM WOODFORD PROSET SYS JR SMITH HALSEY TAYLOR JUST HYDRANTS CLEANOUTS TRAP SEALER WATER COOLERS STAINLESS STEEL ZURN/SMITH ZURN/JOSAM OASIS/ELKAY ELKAY							

SHOCK ARRESTOR SCHEDULE

SYMBOL	PDI RATING	OUTLET TYPE	MFR'S MAKE AND MODEL
SA'A	1-11	THREADED	PRECISION PLUMBING PRODUCTS SC-500A PDI SIZE A
SA'B	12-32	THREADED	PRECISION PLUMBING PRODUCTS SC-750B PDI SIZE B
SA'C	33-60	THREADED	PRECISION PLUMBING PRODUCTS SC-1000C PDI SIZE C
SA'D	61-113	THREADED	PRECISION PLUMBING PRODUCTS SC-1250D PDI SIZE D
SA'E	114-154	THREADED	PRECISION PLUMBING PRODUCTS SC-1500E PDI SIZE E
SA'F	155-330	THREADED	PRECISION PLUMBING PRODUCTS SC-2000F PDI SIZE F
ACCEPTED EQUALS - SIOUX CHIEF, ZURN NOTE - PROVIDE SHOCK ARRESTOR AT ALL FLUSH VALVES, WATER COOLERS AND QUICK CLOSING VALVES ON KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.			

TRAP SEALER SCHEDULE

SYMBOL	DESCRIPTION
	MI-FAB PRODUCTS MODEL MI-GARD-4, IN-LINE FLOOR DRAIN TRAP SEALER. PROVIDE DEVICE TO MATCH FLOOR DRAIN.
ACCEPTED EQUALS - SURE SEAL, PROSET SYSTEMS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.	

FLOOR DRAIN (FD) & FLOOR SINKS (FS) SCHEDULE

SYMBOL	DESCRIPTION
FD-1	JAY R. SMITH 2031-SB-U FLOOR DRAIN. DUCO CAST IRON BODY. COMBINATION INVERTIBLE MEMBRANE CLAMP/ADJUSTABLE COLLAR. BOTTOM OUTLET. NO-HUB CONNECTION. WITH 6" SQUARE TOP TYPE 'NB' ADJUSTABLE NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS.
FD-2	JAY R. SMITH 2270C-M-B MODERATE TRAFFIC SHALLOW BODY DRAIN WITH DUCTILE IRON GRATE AND SEDIMENT BUCKET FOR USE IN MECHANICAL ROOMS. PROVIDE WITH TRAP PRIMER CONNECTION.
FS-1	JAY R. SMITH 340-YO (3 OR 4) 12" SQUARE X 10" DEEP A R.E. SANITARY FLOOR SINK CAST IRON RECEPTOR BODY WITH A WHITE ACID RESISTANT ENAMEL INTERIOR AND ANTI-SPLASH DOME STRAINER LESS FLANGE. PROVIDE WITH 320-12 ARE ONE PIECE 1/2 GRATE.
FS-2	JAY R. SMITH 330-YO (3 OR 4) 12" SQUARE X 8" DEEP A R.E. SANITARY FLOOR SINK CAST IRON RECEPTOR BODY WITH A WHITE ACID RESISTANT ENAMEL INTERIOR AND ANTI-SPLASH DOME STRAINER LESS FLANGE. PROVIDE WITH 320-12 ARE ONE PIECE 1/2 GRATE.
FS-3	JAY R. SMITH 3410C CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES. ACID RESISTANT COATED INTERIOR AND LOOSE SET ACID RESISTANT COATED CAST IRON GRATE WITH ALUMINUM DOME BOTTOM STRAINER. INSTALL FOR COOLER/FREEZER DRAIN AND AT WASH-DOWN AREAS.
FS-4	JAY R. SMITH 330-YO (3 OR 4) 12" SQUARE X 8" DEEP A R.E. SANITARY FLOOR SINK CAST IRON RECEPTOR BODY WITH A WHITE ACID RESISTANT ENAMEL INTERIOR AND ANTI-SPLASH DOME STRAINER LESS FLANGE. PROVIDE WITH 320-10 ARE ONE PIECE FULL GRATE.
ACCEPTED EQUALS - ZURN, JR SMITH CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.	

HOSE BIBB / HYDRANT SCHEDULE

SYMBOL	DESCRIPTION
HB1	WOODFORD MODEL 865P EXPOSED NON FREEZE, WALL HYDRANT W/INTEGRAL VACUUM BREAKER, CHROME FINISHED WITH LOOSE OPERATING KEY.
HB2	WOODFORD MODEL 24P ANTI-CONTAMINATION WALL FAUCET, 3/4" INLET, 3/4" HOSE OUTLET WITH VACUUM BREAKER, LOOSE TEE KEY, POLISHED CHROME FINISH.
ACCEPTED EQUALS - ZURN, JR SMITH CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.	

HOT WATER RECIRCULATING PUMP SCHEDULE

PUMP	SERVICE	TYPE	CAPACITY		VOLTAGE PHASE, CYCLE	AMPS	MFG. & MODEL NO. UNIT IS BASED ON	PUMP LOCATION	NOTES
			G.P.M.	HEAD					
RCP-1	HOT WATER RECIRC.	ALL-BRONZE	3	8	115/1/60	0.52	TACO MODEL 005	ON ADJACENT WALL AT 5'-0" A.F.F.	1/35 HP
RCP-2	HOT WATER RECIRC.	ALL-BRONZE	1	3	115/1/60	0.43	TACO MODEL 003	ON ADJACENT WALL AT 5'-0" A.F.F.	1/40 HP
RCP-3	HOT WATER RECIRC.	ALL-BRONZE	2	7	115/1/60	0.52	TACO MODEL 006	ON ADJACENT WALL AT 5'-0" A.F.F.	1/40 HP
RCP-4	HOT WATER RECIRC.	ALL-BRONZE	5	18	115/1/60	1.45	TACO MODEL 0014	ON ADJACENT WALL AT 5'-0" A.F.F.	1/8 HP
RCP-5	HOT WATER RECIRC.	ALL-BRONZE	3	15	115/1/60	1.45	TACO MODEL 0014	ON ADJACENT WALL AT 5'-0" A.F.F.	1/8 HP
ACCEPTED EQUALS - BELL & GOSSETT, GOULDS, ITT CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY RESEMBLES AND PERFORMS EQUAL TO SPECIFIED PRODUCT. ONLY THE MANUFACTURERS LISTED WILL BE ACCEPTED UNLESS THE PROCEDURES FOR SUBSTITUTION AS INDICATED BY THE SPECIFICATIONS, ARE FOLLOWED.									

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTIONS				SPECIFICATIONS	REMARKS
		W	V	CW	HW		
P1	WATER CLOSET FLOOR MOUNTED ADA COMPLIANT	4"	2"	1-1/4"	---	WATER CLOSET - AMERICAN STANDARD 3481.001 ELONGATED BOWL VITREOUS CHINA FLOOR MOUNTED SIPHON JET WITH 1-1/2" TOP SPUD FLUSH VALVE. SLOAN REGAL XL 111. 1.6 LOW CONSUMPTION SEAT. CHURCH MODEL 295-SSCCT WHITE ELONGATED TOILET SEAT WITH SELF SUSTAINING CHECK HINGE.	MOUNT PER ADA REQUIREMENTS 16.5 FLOOR TO RIM HEIGHT
P2	WATER CLOSET FLOOR MOUNTED	4"	2"	1-1/4"	---	WATER CLOSET - AMERICAN STANDARD 2234.001 ELONGATED BOWL VITREOUS CHINA FLOOR MOUNTED SIPHON JET WITH 1-1/2" TOP SPUD FLUSH VALVE. SLOAN REGAL XL 111. 1.6 LOW CONSUMPTION SEAT. CHURCH MODEL 295-SSCCT WHITE ELONGATED TOILET SEAT WITH SELF SUSTAINING CHECK HINGE.	
P3	THREE-STATION WASH STATION	2"	2"	1/2"	1/2"	LAVATORY - BRADLEY MODEL MG-3/7 TPA THREE-STATION DECK LAVATORY SOLID SURFACE SYSTEM. COLOR AS SELECTED BY OWNER. FAUCET - CHICAGO FAUCETS 3600-E2805AB MANUAL METERING 0.5 VANDAL RESISTANT NON-AERATING ANGLE STOP - MCGUIRE H216SLK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x12" LONG FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP DRAIN - MCGUIRE 155-A-GRID DRAIN W/1-1/4"x4" TAILPIECE P-TRAP - MCGUIRE 8902, TRAP 1-1/4"x1-1/2" W/ESCUTCHEON	MOUNTING PER ADA REQUIREMENTS PROVIDE POINT OF USE MIXING VALVE MOUNTED AS HIGH AS POSSIBLE BELOW SINK. SET VALVE TO DELIVER 85 DEG. F. EQUAL TO SYMMONS 4-10B
P4	URINAL ADA COMPLIANT	2"	2"	3/4"	---	URINAL - AMERICAN STANDARD "WASHBROOK" FLOWISE 6590.001 WHITE VITREOUS CHINA WALL HUNG, WASH-DOWN ACTION, TOP SPUD, URINAL W/ 3/4" INLET SPUD, 2" NPT OUTLET, 0.5 GPF FLUSH VALVE - SLOAN REGAL XL-189-0.5 CARRIER - ZURN Z-1222 CARRIER FLOOR MOUNTED CARRIER TO FIT WITHIN WALLS.	MOUNT PER ADA SEE ARCHITECTURAL FOR MOUNTING HEIGHT
P5	URINAL	2"	2"	3/4"	---	URINAL - AMERICAN STANDARD "WASHBROOK" FLOWISE 6590.001 WHITE VITREOUS CHINA WALL HUNG, WASH-DOWN ACTION, TOP SPUD, URINAL W/ 3/4" INLET SPUD, 2" NPT OUTLET, 0.5 GPF FLUSH VALVE - SLOAN REGAL XL-189-0.5 CARRIER - ZURN Z-1222 CARRIER FLOOR MOUNTED CARRIER TO FIT WITHIN WALLS.	SEE ARCHITECTURAL FOR MOUNTING HEIGHT
P6	LAVATORY WALL HUNG (ADA)	2"	2"	1/2"	1/2"	LAVATORY - AMERICAN STANDARD 0355.012 LUCERNE VITREOUS CHINA 20x18 WALL MTD LAVATORY WITH 4" FAUCET CENTERS, FRONT OVERFLOW, DRILLED FOR CONCEALED ARMS. FAUCET - CHICAGO FAUCETS 3600-E2805AB MANUAL METERING 0.5 GPM VANDAL RESISTANT NON-AERATING FAUCET WITH 4" CENTERSET ANGLE STOP - MCGUIRE H216SLK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x12" LONG FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP DRAIN - MCGUIRE 155-A-GRID DRAIN W/1-1/4"x4" TAILPIECE P-TRAP - MCGUIRE 8902, TRAP 1-1/4"x1-1/2" W/ESCUTCHEON CARRIER - JR SMITH FLOOR MOUNTED CARRIER TO FIT WITHIN WALL CHANNEL	MOUNTING PER ADA REQUIREMENTS SEE NOTE (A) PROVIDE WITH OFF-SET P-TRAP ASSEMBLY
P7	CLASSROOM HAND SINK COUNTERMOUNTED SINGLE COMPARTMENT ADA COMPLIANT	2"	2"	1/2"	1/2"	SINK - JUST SL-ADA-1921-A-GR 19" X 21" X 6-1/2" 18 GA. STAINLESS STEEL SELF-RIMMING TOP MOUNT GRIP-RM PLUS WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNELS, TWO HOLE DRILLING. FAUCET - CHICAGO FAUCETS 895-317GNBBV3E3MAB, 4" WRISTBLADE LEVER GOOSENECK SWING SPOUT, 2.2 GPM VANDAL RESISTANCE LAMINAR FLOW AND VACUUM BREAKER. ANGLE STOP - MCGUIRE H216SLK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x12" LONG FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP DRAIN - MCGUIRE 155-A BASKET DRAIN W/1-1/2"x4" TAILPIECE WITH P-TRAP - MCGUIRE 8902 P-TRAP 1-1/2"x1-1/2" WITH CONTINUOUS WASTE - MCGUIRE 111C16920, END OUTLET	MOUNTING PER ADA REQUIREMENTS SEE NOTE (A) PROVIDE WITH OFF-SET P-TRAP ASSEMBLY PROVIDE POINT OF USE MIXING VALVE MOUNTED AS HIGH AS POSSIBLE BELOW SINK. SET VALVE TO DELIVER 85 DEG. F. EQUAL TO SYMMONS 4-10B
P8	ART ROOM COUNTERMOUNTED SINGLE COMPARTMENT ADA COMPLIANT	2"	2"	1/2"	1/2"	SINK - JUST SL-ADA-2133-A-GR 21" X 33" X 6-1/2" 18 GA. STAINLESS STEEL SELF-RIMMING TOP MOUNT GRIP-RM PLUS WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNELS, THREE HOLE DRILLING. FAUCET - CHICAGO FAUCETS 1100-G2E3-317AB GOOSENECK SWING SPOUT, 2.2 GPM VANDAL RESISTANCE LAMINAR FLOW WITH 4" WRISTBLADE HANDLES. ANGLE STOP - MCGUIRE H216SLK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x12" LONG FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP DRAIN - MCGUIRE 155-A BASKET DRAIN W/1-1/2"x4" TAILPIECE WITH P-TRAP - MCGUIRE 8902 P-TRAP 1-1/2"x1-1/2"	MOUNTING PER ADA REQUIREMENTS SEE NOTE (A) PROVIDE WITH OFF-SET P-TRAP ASSEMBLY
P9	WORKROOM COUNTERMOUNTED SINGLE COMPARTMENT	2"	2"	1/2"	1/2"	SINK - JUST SL-ADA-2133-A-GR 21" X 33" X 6-1/2" 18 GA. STAINLESS STEEL SELF-RIMMING TOP MOUNT GRIP-RM PLUS WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNELS, THREE HOLE DRILLING. FAUCET - CHICAGO FAUCETS 1100-G2E3-317AB GOOSENECK SWING SPOUT, 2.2 GPM VANDAL RESISTANCE LAMINAR FLOW WITH 4" WRISTBLADE HANDLES. ANGLE STOP - MCGUIRE H216SLK LOOSE KEY ANGLE STOP 1/2" IPS FEMALE INLET AND 3/8"x12" LONG FLEXIBLE TUBE. PROVIDE WITH CHROME PLATED OR STAINLESS STEEL LOOSE KEY CAP DRAIN - MCGUIRE 155-A BASKET DRAIN W/1-1/2"x4" TAILPIECE WITH P-TRAP - MCGUIRE 8902 P-TRAP 1-1/2"x1-1/2" WITH CONTINUOUS WASTE - MCGUIRE 111C16920, END OUTLET	MOUNTING PER ADA REQUIREMENTS SEE NOTE (A) PROVIDE WITH OFF-SET P-TRAP ASSEMBLY
P10	ELECTRIC WATER COOLER TWO-LEVEL ADA COMPLIANT WITH BOTTLE FILLER	1-1/2"	1-1/2"	1/2"	---	FIXTURE - HALSEY TAYLOR MODEL HTHB-HYRGRNBLW-MF BARRIER-FREE FILTERED, VANDAL-RESISTANT WATER STATION, SELF-CONTAINED, 8.0 GPH, VANDAL-RESISTANT PUSH-BUTTON CONTROLS, ONE-PIECE STAINLESS STEEL TOPS WITH INTEGRAL DRAINS, ONE-PIECE VANDAL-RESISTANT BUBBLERS AND STAINLESS STEEL LOWER SHROULDS. SUPPLY - POLISHED CHROME PLATED CAST BRASS WHEEL HANDLE STRAIGHT STOP, 1/2" IPS INLET, 3/8" COMPRESSION OUTLET. P-TRAP - 1-1/2" x 1-1/2" SCH 40 DWV PVC PER COOLER MANUFACTURER.	
P11	SHOWER ADA COMPLIANT ROLL-IN	2"	2"	1/2"	1/2"	FIXTURE - G.C. BUILT TILE SHOWER VALVE - SYMMONS TEMPTRIP, C-96-500 830-V-X-QD-VP PRESSURE BALANCE ROUGH VALVE BODY, WITH SCREWDRIVER STOPS, UNIVERSAL INLET/OUTLETS AND TWO-WAY DIVERTER ROUGH VALVE BODY. TRIM - VALVE TRIM WITH METAL LEVER HANDLE, POLISHED CHROME FINISH, SHOWER ARM AND FLANGE, POLISHED CHROME FINISH, VANDAL RESISTANT 3-FUNCTION SHOWER HEAD, 2.0 GPM, POLISHED CHROME FINISH, DIVERTER VALVE TRIM WITH METAL LEVER HANDLE, POLISHED CHROME FINISH, HAND SHOWER KIT, 2.0 GPM, WITH 3-FUNCTION HAND SHOWER, HOSE, WALL SUPPLY, SLIDE BAR AND IN-LINE VACUUM BREAKER, POLISHED CHROME FINISH. DRAIN - PROVIDE WITH ZFD-1	
P12	MOP BASIN	3"	2"	1/2"	1/2"	FIXTURE - FIAT MODEL TSBC 1812 36" X 36" X 12" WITH 6" DROP FRONT NEO-CORNER TERRAZZO. MOP BASIN WITH INTEGRAL DRAIN AND STAINLESS STEEL CAP ON THRESHOLD ONLY. PROVIDE MSG WALL GUARDS AND 832AA HOSE AND HOSE BRACKET. FAUCET - CHICAGO FAUCETS MODEL EXPOSED YOKE WALL-MOUNT UTILITY FAUCET, ROUGH CHROME FINISH WITH INTEGRAL SUPPLY STOPS, OFFSET SHANKS WITH INTEGRAL CHECK VALVES, METAL LEVER HANDLES, 6" CAST BRASS SPOUT WITH INTEGRAL VACUUM BREAKER, TOP BRACE, BUCKET HOOK AND 3/4" HOSE THREAD OUTLET. ACCESSORIES - INCLUDE HOSE AND HOSE BRACKET, MOP HANGER BRACKET AND STAINLESS STEEL WALL GUARDS.	
P13	EMERGENCY RECESSED SAFETY STATION	2"	2"	1/2"	1/2"	FIXTURE - GUARDIAN MODEL GBF2150 RECESSED BARRIER-FREE EYE/FACE WASH AND SHOWER SAFETY STATION WITH CEILING MOUNTED EXPOSED SHOWER HEAD AND DRAIN PAN. STAINLESS STEEL 12" DIAMETER STAINLESS STEEL SHOWER HEAD WITH 20 GPM FLOW CONTROL WITH VERTICAL SUPPLY PIPE AND CEILING ESCUTCHEON	PROVIDE GUARDIAN G3800 F MIXING VALVE MOUNTED ON WALL ABOVE CEILING. SET TO DELIVER 85 DEG F
P14	RESIDENTIAL WASHER WATER & DRAIN BOX	2"	2"	1/2"	1/2"	GUY GREY - MODEL T200LV CENTER DRAIN WHITE POWDER COATED STEEL WASHING MACHINE BOX WITH 2" WASTE CONNECTION. PROVIDE WATER HAMMER ARRESTERS FOR COLD AND HOT SUPPLY. PROVIDE FILTER MODEL 160 WALL MOUNTED LINT TRAP MOUNTED ABOVE WMB-1.	MOUNT AT 36" A.F.F.
P15	RESIDENTIAL STYLE REFRIG. ICE MAKER SUPPLY	---	---	1/2"	---	OUTLET BOX - GUY GREY MIB1AB WHITE POWDER COATED METAL ICE MAKER OUTLET BOX. PROVIDE WITH WATER HAMMER ARRESTER.	MOUNT AT 12" A.F.F. BEHIND REFRIGERATOR

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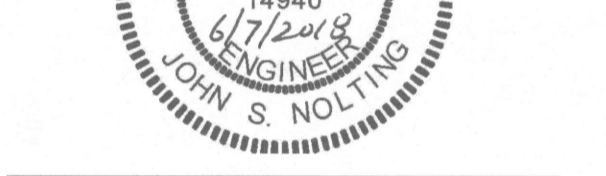
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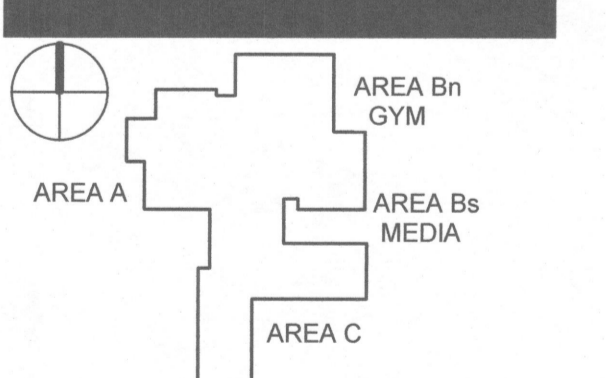
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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
 WINNABOW, NC 28479



No.	Description	Date
1	ADDENDUM 1	6/7/2018

ISSUED: CONSTRUCTION DOCUMENTS
 DATE: 05/24/2018
 SCALE: 12" = 1'-0"
 SHEET NAME: PLUMBING SCHEDULES
 SHEET NUMBER:

P-501

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INTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Interior trim.
 - 2. Shelving. (Addendum No. 1)

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.

PART 2 - PRODUCTS

2.01 MATERIALS, GENERAL

- A. Lumber: DOC PS 20.
 - 1. Factory mark each piece of lumber with grade stamp of inspection agency indicating grade, species, moisture content at time of surfacing, and mill.
 - a. For exposed lumber, mark grade stamp on end or back of each piece, or omit grade stamp and provide certificates of grade compliance issued by inspection agency.
- B. Softwood Plywood: DOC PS 1.

2.02 FIRE-RETARDANT-TREATED MATERIALS

- A. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
 - 1. Kiln dry lumber after treatment to a maximum moisture content of 19 percent.
- B. Fire-retardant-treated wood shall not exceed the flame spread and smoke developed limitations of NCBC Table 803.9.
- C. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. For exposed lumber indicated to receive a stained or natural finish, mark back of each piece.
- D. Application: All interior lumber.

2.03 INTERIOR TRIM

- A. Hardwood Moldings for Transparent Finish (Stain or Clear Finish): WMMPA HWM 2, N-grade wood moldings made to patterns included in WMMPA HWM 1.
 - 1. Species: White maple.
 - 2. Maximum Moisture Content: 9 percent.
- B. Molding Patterns: As detailed.

2.04 SHELVING (ADDENDUM NO. 1)

- A. Shelving: Made from the following material, 3/4 inch (19 mm) thick.
 - 1. Softwood Boards: Douglas fir-larch, Douglas fir south, or hem-fir; Superior or C & Btr finish; NLGA, WCLIB, or WWPA; or southern pine, B & B finish; SPIB; kiln dried.
- B. Heavy-Duty Standards: Heavy-duty steel wall standards, double slot design, with 1.25 inch vertical slot adjustment.
- C. Heavy-Duty Shelf Brackets: Heavy-duty steel shelf brackets with 1.25 inch vertical adjustment.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours unless longer conditioning is recommended by manufacturer.

3.02 INSTALLATION, GENERAL

- A. Install interior finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
 - 1. Scribe and cut interior finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.
 - 2. Countersink fasteners, fill surface flush, and sand unless otherwise indicated.
 - 3. Install to tolerance of 1/8 inch in 96 inches (3 mm in 2438 mm) for level and plumb. Install adjoining interior finish carpentry with 1/32-inch (0.8-mm) maximum offset for flush installation and 1/16-inch (1.5-mm) maximum offset for reveal installation.

3.03 STANDING AND RUNNING TRIM INSTALLATION

- A. Install with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Miter at returns, miter at outside corners, and cope at inside corners to produce tight-fitting joints with full-surface contact throughout length of joint. Use scarf joints for end-to-end joints.

3.04 SHELVING INSTALLATION (ADDENDUM NO. 1)

- A. Install shelf standards and brackets according to manufacturer's written instructions. Fasten to blocking, or metal backing, or use toggle bolts or hollow wall anchors.

END OF SECTION

SECTION 06 41 16

PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Plastic-laminate-faced architectural cabinets.
 - 2. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-faced architectural cabinets unless concealed within other construction before cabinet installation.
- B. Related Requirements:
 - 1. Section 12 36 00 "Countertops."

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product, including panel products high-pressure decorative laminate adhesive for bonding plastic laminate and cabinet hardware and accessories.
- B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
- C. Samples:
 - 1. Plastic laminates, for each color, pattern, and surface finish.
 - 2. Thermoset decorative panels, for each color, pattern, and surface finish.

1.03 QUALITY ASSURANCE

- A. Fabricator Qualifications: Certified participant in AWI's Quality Certification Program.
- B. Installer Qualifications: Fabricator of products.

1.04 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

2.01 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of architectural plastic-laminate cabinets indicated for construction, finishes, installation, and other requirements.
 - 1. Provide labels and certificates from AWI certification program indicating that woodwork, including installation, complies with requirements of grades specified.
- B. Grade: Custom.
- C. Type of Construction: Frameless.
- D. Cabinet, Door, and Drawer Front Interface Style: Flush overlay.
- E. Reveal Dimension: As indicated.
- F. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by woodwork quality standard.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Formica Corporation.
 - b. Lamin-Art, Inc.
 - c. Panolam Industries International, Inc.
 - d. Wilsonart International; Div. of Premark International, Inc.

- G. Laminate Cladding for Exposed Surfaces:
 - 1. Horizontal Surfaces: Grade HGL.
 - 2. Vertical Surfaces: Grade VGS.
 - 3. Pattern Direction: Vertically for drawer fronts, doors, and fixed panels unless otherwise indicated.
- H. Materials for Semi-exposed Surfaces:
 - 1. Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
 - 2. Drawer Sides and Backs: Thermoset decorative panels with PVC or polyester edge banding.
 - 3. Drawer Bottoms: Thermoset decorative panels.
- I. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. As selected by Architect from laminate manufacturer's full range in the following categories:
 - a. Solid colors with core same color as surface, scheduled finish.

2.02 WOOD MATERIALS

- A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.
 - 1. Wood Moisture Content: 8 to 13 percent.
 - 2. Medium-Density Fiberboard: ANSI A208.2, Grade 130.
 - 3. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.
 - 4. Softwood Plywood: DOC PS 1.
 - 5. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for test methods 3.3, 3.4, 3.6, 3.8, and 3.10.

2.03 CABINET HARDWARE AND ACCESSORIES

- A. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 170 degrees of opening, self-closing.
- B. Wire Pulls: Back mounted, solid metal, 4 inches (100 mm) long, 5/16 inch (8 mm) in diameter.
- C. Shelf Rests: BHMA A156.9, B04013; metal.
- D. Drawer Slides: BHMA A156.9.
 - 1. Grade 1 and Grade 2: Side mounted; full-extension type; zinc-plated steel with polymer rollers.
 - 2. Grade 1HD-100 and Grade 1HD-200: Side mounted; full-extension type; zinc-plated-steel ball-bearing slides.
 - 3. For drawers not more than 3 inches (75 mm) high and not more than 24 inches (600 mm) wide, provide Grade 2.
 - 4. For drawers more than 3 inches (75 mm) high but not more than 6 inches (150 mm) high and not more than 24 inches (600 mm) wide, provide Grade 1.
 - 5. For drawers more than 6 inches (150 mm) high or more than 24 inches (600 mm) wide, provide Grade 1HD-100.
 - 6. For trash bins not more than 20 inches (500 mm) high and 16 inches (400 mm) wide, provide Grade 1HD-100.
- E. Door Locks: BHMA A156.11, E07121.
- F. Drawer Locks: BHMA A156.11, E07041.
- G. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
 - 1. Satin Chromium Plated: BHMA 626 for brass or bronze base; BHMA 652 for steel base.

2.04 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.
- C. Adhesives: Do not use adhesives that contain urea formaldehyde.
- D. Adhesive for Bonding Plastic Laminate: Unpigmented contact cement [Resorcinol].
 - 1. Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.05 FABRICATION

- A. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.

3.02 INSTALLATION

- A. Grade: Install cabinets to comply with same grade as item to be installed.
- B. Install cabinets level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
- C. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- D. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork.
- E. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 1. Install cabinets with no more than 1/8 inch in 96-inch (3 mm in 2400-mm) sag, bow, or other variation from a straight line.
 - 2. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches (400 mm) o.c. with No. 10 wafer-head screws sized for not less than 1-1/2-inch (38-mm) penetration into wood framing, blocking, or hanging strips.

END OF SECTION

SECTION 07 54 19

POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. ~~Adhered polyvinyl chloride (PVC) roofing system.~~ (Addendum No. 1)
 - 2. Mechanically fastened polyvinyl-chloride (PVC) roofing system. (Addendum No. 1)
 - 3. Roof insulation.
- B. Related Requirements:
 - 1. Section 06 10 53 "Miscellaneous Rough Carpentry" for wood nailers, curbs, and blocking; and for wood-based, structural-use roof deck panels.
 - 2. Section 07 62 00 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
 - 3. Section 07 92 00 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.02 PREINSTALLATION MEETINGS

- A. Preliminary Roofing Conference: Before starting roof deck construction, conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Review deck substrate requirements for conditions and finishes, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.
 - 8. Review temporary protection requirements for roofing system during and after installation.
 - 9. Review roof observation and repair procedures after roofing installation.
- B. Preinstallation Roofing Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.

8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work, including:
 1. Base flashings and membrane terminations.
 2. Tapered insulation, including slopes.
 3. Roof plan showing orientation of steel roof deck and orientation of roofing, fastening spacings, and patterns for mechanically fastened roofing.
 4. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
- C. Samples for Verification: For the following products:
 1. Sheet roofing, of color required.
 2. Walkway pads or rolls, of color required.

1.04 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is FM Global approved for roofing system identical to that used for this Project.
- B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.07 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.08 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 1. Special warranty includes membrane roofing, base flashings, roof insulation, fasteners, cover boards, and other components of roofing system.
 2. Warranty Period: 20 years from date of Substantial Completion.

- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as membrane roofing, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Source Limitations: Obtain components including roof insulation fasteners for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.
- B. Polyvinyl Chloride (PVC) Membrane Materials:
 - 1. Carlisle Roofing Systems, Inc.
 - 2. Duro-Last Roofing Inc.
 - 3. GAF.
 - 4. Sarnafil Inc.
 - 5. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and base flashings shall remain watertight.
 - 1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
 - 2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- C. Roofing System Design: Tested by a qualified testing agency to resist the following uplift pressures:
 - 1. Corner Uplift Pressure: See Structural Drawings.
 - 2. Perimeter Uplift Pressure: See Structural Drawings.
 - 3. Field-of-Roof Uplift Pressure: See Structural Drawings.
 - 4. Fire/Windstorm Classification: Class 1A-90.
- D. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- E. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

2.03 PVC ROOFING

- A. PVC Sheet: ASTM D 4434/D 4434M, Type III, fabric reinforced.
 - 1. Thickness: 60 mils (1.5 mm), nominal.
 - 2. Exposed Face Color: White.

2.04 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
 - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.

- B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.
- C. Bonding Adhesive: Manufacturer's standard.
- D. Slip Sheet: Manufacturer's standard, of thickness required for application.
- E. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- F. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch (25 mm wide by 1.3 mm) thick, prepunched.
- G. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roofing to substrate, and acceptable to roofing system manufacturer.
- H. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.05 SUBSTRATE BOARDS

- A. Substrate Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/2 inch (13 mm) thick.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening substrate board to roof deck.

2.06 ROOF INSULATION

- A. General: Preformed roof insulation boards manufactured or approved by PVC roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses indicated.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Atlas Roofing Corporation.
 - b. Carlisle SynTec Incorporated.
 - c. Firestone Building Products.
 - d. Hunter Panels.
 - e. Johns Manville; a Berkshire Hathaway company.
 - f. Rmax, Inc.

2.07 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
- C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:
 - 1. Modified asphaltic, asbestos-free, cold-applied adhesive.
 - 2. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.
 - 3. Full-spread spray-applied, low-rise, two-component urethane adhesive.
- D. Protection Mat: Woven or nonwoven polypropylene, polyolefin, or polyester fabric, water permeable and resistant to UV degradation, type and weight as recommended by roofing system manufacturer for application.

2.08 ASPHALT MATERIALS

- A. Roofing Asphalt: ASTM D 312, Type III or Type IV.

2.09 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads, approximately 3/16 inch (5 mm) thick and acceptable to roofing system manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 05 31 00 "Steel Decking."
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.03 ROOFING INSTALLATION, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.04 SUBSTRATE BOARD INSTALLATION

- A. Install substrate board with long joints in continuous straight lines, perpendicular to roof slopes with end joints staggered between rows. Tightly butt substrate boards together.
 - 1. Fasten substrate board to top flanges of steel deck to resist uplift pressure at corners, perimeter, and field of roof according to roofing system manufacturers' written instructions.

3.05 INSULATION INSTALLATION

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Install tapered insulation under area of roofing to conform to slopes indicated.
- D. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches (68 mm) or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.

- F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
 - 1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
- G. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
 - 1. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.

3.06 MECHANICALLY FASTENED ROOFING INSTALLATION (Addendum No. 1)

- A. Mechanically fasten roofing over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing and allow to relax before retaining.
 - 1. Install sheet according to ASTM D 5082.
 - 2. For in-splice attachment, install roofing with long dimension perpendicular to steel roof deck flutes.
- B. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- C. Accurately align roofing, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Mechanically fasten or adhere roofing securely at terminations, penetrations, and perimeter of roofing.
- E. Apply roofing with side laps shingled with slope of roof deck where possible.
- F. In-Seam Attachment: Secure one edge of PVC sheet using fastening plates or metal battens centered within seam, and mechanically fasten PVC sheet to roof deck.
- G. Seams: Clean seam areas, overlap roofing, and hot-air weld side and end laps of roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.
 - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet.
 - 2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
 - 3. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.
- H. Spread sealant bed over deck-drain flange at roof drains, and securely seal roofing in place with clamping ring.

3.07 ADHERED ROOFING INSTALLATION (Addendum No. 1)

- A. ~~Adhere roofing over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing and allow to relax before retaining.~~
 - 1. ~~Install sheet according to ASTM D 5036.~~
- B. ~~Start installation of roofing in presence of roofing system manufacturer's technical personnel.~~
- C. ~~Accurately align roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.~~
- D. ~~Bonding Adhesive: Apply to substrate and underside of roofing at rate required by manufacturer, and allow to partially dry before installing roofing. Do not apply to splice area of roofing.~~
- E. ~~In addition to adhering, mechanically fasten roofing securely at terminations, penetrations, and perimeter of roofing.~~
- F. ~~Apply roofing with side laps shingled with slope of roof deck where possible.~~
- G. ~~Seams: Clean seam areas, overlap roofing, and hot air weld side and end laps of roofing and sheet flashings according to manufacturer's written instructions, to ensure a watertight seam installation.~~
 - 1. ~~Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet.~~

- ~~2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.~~
- ~~3. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.~~
- H. ~~Spread sealant bed over deck drain flange at roof drains, and securely seal roofing in place with clamping ring.~~

3.08 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.09 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products in locations indicated. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.10 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

3.11 ROOFING INSTALLER'S WARRANTY

- A. WHEREAS _____ of _____, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
 1. Owner: <Insert name of Owner>.
 2. Address: <Insert address>.
 3. Building Name/Type: <Insert information>.
 4. Address: <Insert address>.
 5. Area of Work: <Insert information>.
 6. Acceptance Date: _____.
 7. Warranty Period: <Insert time>.
 8. Expiration Date: _____.
- B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
 1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;

- b. peak gust wind speed exceeding <Insert mph (m/sec)>;
 - c. fire;
 - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and
 - g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
- 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
 - 3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
 - 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
 - 5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
 - 6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
 - 7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, _____.

- 1. Authorized Signature: _____.
- 2. Name: _____.
- 3. Title: _____.

END OF SECTION

SECTION 09 64 66

WOOD ATHLETIC FLOORING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Provide athletic flooring in the gymnasium.
- B. Gymnasium protective covering and storage. (Addendum No. 1)
- C. Related work specified under other sections.
 - 1. Cast-In-Place Concrete - Section 03 30 00.
 - a. Concrete Slab Depression: 3 inch (76mm) using 25/32 inch (20mm) flooring and subfloor.
 - b. Surface Finish: steel troweled and finished smooth.
 - c. Concrete Tolerance: +/- 1/8 inch (3mm) in radius of 10 feet (3m).
 - d. Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized.
 - e. Compressive Strength: Concrete shall be a minimum of 3,000 psi (21 MPa) and a maximum of 4000 psi (28MPa) compressive strength after 28 days. Concrete shall be free of washed river gravel, pea gravel, flint or hardener additives. No lightweight concrete.
 - f. High spots shall be ground level and low spots shall be filled in with approved leveling compound by the general contractor to meet the tolerance above.
 - 2. Under-Slab Vapor Barrier - Section 03 30 00.
 - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter walls and on the earth side of below grade walls by general contractor using suitable type membrane.
 - b. Sand-Poly-Sand slab construction is not an acceptable construction.
 - 3. Game Standard Inserts - Section 11 66 23.

1.02 REFERENCES

- A. MFMA - Maple Flooring Manufacturers Association
- B. MFMA PUR - Performance Uniformity Requirements
- C. DIN 108032 (part 2) 2001 - Performance Test
- D. DIN 108032 (part 2) 1991 - Performance Test
- E. ASTM F2772 - Athletic Performance Properties of Indoor Sports Floor Systems
- F. EN 14904 - European Committee for Standardization - Surfaces for Sports areas
- G. ASTM F2772 - Athletic Performance Properties of Indoor Sports Floor Systems
- H. FIBA - International Basketball Federation
- I. FSC - Forest Stewardship Council

1.03 QUALITY ASSURANCE

- A. Floor System Manufacturer Qualifications
 - 1. Manufacturer shall be an established firm experienced in field and have been in business or a minimum of ten (10) years.
 - 2. Manufacturer will be a member in good standing of the Maple Flooring Manufacturers Association (MFMA).

- B. Floor Contractor/Installer Qualifications and Certifications
 - 1. The flooring contractor shall be a flooring manufacturer's approved installer with MFMA Accredited Installer(s) on-site for the duration of the wood floor installation; or, a contractor approved by the flooring manufacturer.
 - 2. Flooring contractor shall submit a list of at least three completed projects of similar magnitude and complexity completed under current corporate identity.
- C. Surface Appearance (available option)
 - 1. Expansion spaces will not exceed 1/64 inch (0.4mm) at time of installation and will be spread evenly across the floor with each row of flooring.
 - 2. Expansion spacing will be installed to allow for normal expected increases in Equilibrium Wood Moisture Content (EMC).
- D. Floor System Performance
 - 1. Flooring shall meet or exceed criteria of the following performance criteria:
 - a. MFMA PUR
 - b. DIN 18032 Part2 2001
 - c. DIN 18032 Part2 1991
 - d. ASTM F2772 Sport Floor Standards
 - e. FIBA International Standards
 - f. EN 14904 Standards
 - 2. Independent testing report showing the system passing all criteria shall be provided as part of the bid qualification process and submittal process.

1.04 SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For each type of floor assembly and accessory. Include plans, sections, and attachment details. Include expansion provisions and trim details.
- C. Samples: For each exposed product and for each color and texture specified, approximately 12 inches (300 mm) long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.
- D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and finishes available for wood flooring.
 - 1. Include Samples of accessories involving color and finish selection.
- E. Samples for Verification: For wood flooring and accessories, with stain color and finish required, approximately 12 inches (300 mm) long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.
- F. Concrete Guidelines
 - 1. Submit MFMA Recommendations for correct preparation, finishing and testing of concrete subfloor surfaces to receive wood flooring.
- G. Maintenance Guidelines
 - 1. Submit copy of Maintenance Instructions.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Delivery of Materials
 - 1. Materials shall not be delivered, stored or installed until all masonry, painting, tilework, work is complete, and all overhead mechanical work, lighting, backstops, scoreboards are installed. Room temperature of 55-80 degrees Fahrenheit (13 to 27 degrees Celsius) and relative humidity of 35-50 % are to be maintained. In- Slab Relative Humidity shall be 85% or less using ASTM F 2170 In-Slab Relative Humidity test. Ideal installation/storage conditions are the same as those that will prevail when building is occupied
 - 2. Materials shall not be stored at the installation location if the In-Slab relative humidity level for the concrete slab is above 85% using ASTM F 2170 In-Slab Relative Humidity test.

1.06 JOB CONDITIONS-SEQUENCY

- A. Do not install floor system until concrete has been cured 60 days and the requirements in Paragraph 1.05 are obtained.
- B. General Contractor is responsible to ensure slab is clean and free of all dirt and debris prior to floor installation beginning.
- C. Permanent heat, light and ventilation shall be installed and operating during and after installation. Maintain a temperature range of 55 to 80 degrees Fahrenheit (13 to 27 degrees Celsius) and a relative humidity range of 35 to 50%. Consult MFMA guidelines for further information.
- D. After floors are finished, area to be kept locked by general contractor to allow curing time for the finish. If after required curing time general contractor or owner requires use of gym, he shall protect the floor by covering with non-fibered kraft paper or red rosin paper with taped joints, until acceptance by owner (or owner's agent) of complete gymnasium floor.

1.07 WARRANTY

- A. Flooring manufacturer hereby warrants the material to be free from manufacturing defects for a period of one year from date of Final Acceptance.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Wood Athletic Flooring:
 - 1. Action Floor Systems; Action Power Channel: www.actionfloors.com.
 - 2. Connor Sports; PermaflexII: www.connersports.com.
 - 3. Robbins Sports Surfaces; Bio-Channel Classic: www.robbinsfloor.com. (Basis of Design)

2.02 MATERIAL

- A. Vapor Barrier
 - 1. 6-mil polyethylene.
- B. Subfloor
 - 1. 9/16 inch shock pad.
 - 2. Flooring manufacturer's Subfloor panels that have been factory prepared to accept anchor channel.
 - 3. Metal Anchor Channels.
- C. Maple Flooring Manufacturers Association(MFMA) Wood Flooring
 - 1. Specie: Northern Hard Maple
 - 2. Seasoning: Kiln Dried
 - 3. Matching: Tongue and groove on side-match and end-match.
 - 4. Pattern: Straight-lay (One directional)
 - 5. Thickness: 25/32 inch
 - 6. Width: 2 ¼ inch
 - 7. Grade: 2nd and Better
 - 8. Expansion Option: Standard
 - 9. Wood Finish: 2.
 - 10. Factory Finish: Unfinished
 - 11. Treatment: Un-Treated
- D. Fasteners
 - 1. Flooring 1 3/4 inches (44mm) barbed cleats or staples.
 - 2. Channel anchors - 2 inch power anchors.
- E. Finishing materials
 - 1. MFMA approved oil-modified Sealer
 - 2. MFMA approved oil-modified Finish

- F. Gamelines
 - 1. Gameline paint(s) shall be recommended by the finishing material's manufacturer and must be compatible with the finish.
- G. Perimeter
 - 1. 3 x 4 inch ventilating type. Black or brown as selected by the Architect.
- H. Protective Covering and Rack: (Addendum No. 1)
 - 1. Gym Floor Protective Covering:
 - a. Manufacturer's standard rolls.
 - b. Color: Black.
 - c. Protective Flooring Mobile Rack: Manufacturer's standard.
 - d. Manufacturer: Rubber Flooring Inc.
 - e. Substitution: In accordance with Section 01 60 00 - Product Requirements.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness and report any discrepancies to the general contractor and architect in writing. Slab will be level to within 1/8 inch (3mm) in a 10 foot (3m). Moisture content of the concrete slab shall not exceed 85% using ASTM F 2170 In-Slab Relative Humidity test.
- B. All work required to put the concrete subfloors in acceptable condition shall be the responsibility of the general contractor.
- C. Subfloor shall be broom cleaned by general contractor.
- D. Installer shall document all working conditions provided in General Specifications prior to commencement of installation.

3.02 INSTALLATION

- A. Vapor Barrier:
 - 1. Install polyethylene with joints lapped a minimum of 6 inches (150mm) and turned up 4 inches (100mm) at the walls.
- B. Subfloor:
 - 1. Install shock absorbing pad per manufacturer's recommendations over 6 mil poly.
 - 2. Following manufacturer's guidelines, place subfloor assembly in end-to-end manner, staggering end joints in adjacent rows. Allow for a ¼ inch (6mm) gap between panels. Panels shall be placed on a 45 degree angle to the direction of the maple flooring. Provide 1-½ to 2 inches (40 to 50mm) expansion void at the perimeter and all vertical obstructions.
 - 3. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
 - 4. Install bleacher blocking per manufacturer's recommendations.
 - 5. Place metal anchor channel in each factory-prepared location in the panel.
 - 6. Anchor each anchor channel in the center pre-routed hole only, unless trimming at wall or vertical obstruction requires relocation in adjacent location to anchor.
- C. Flooring:
 - 1. Machine nail maple finish flooring 10 to 12 inches (150mm to 200mm) O.C. with end joints properly driven up and proper spacing provided for humidity conditions in specific regions. Provide 2 inch (50mm) expansion voids at the perimeter and at all vertical obstructions.

3.03 FINISHING

- A. Sanding
 - 1. Sand per manufacturer's recommendations.
 - 2. After sanding, buff entire floor using 100 grit screen or equal grit sandpaper, with a heavy-duty buffing machine.
 - 3. Inspect entire area of floor to insure the floor presents a smooth surface without drum stop marks, gouges, streaks or shiners.

4. Vacuum and/or tack floor before first coat of seal.
 5. Floor should be clean and completely free of dirt and sanding dust.
- B. Gymnasiums:
1. Apply specified combination of seal, gameline paint, and finish in accordance with manufacturer's instructions.
 2. Buff and vacuum and/or tack between each coat after it dries.
 3. Apply game lines accurately after the buffing and vacuuming the coated surfaces. Game lines shall be painted between seal coats and finish coats. Layout in accordance with drawings. For game lines, use current rules of association having jurisdiction. Lines shall be straight with sharp edges in colors selected by architect.

3.04 WALL BASE INSTALLATION

- A. Install vent cove base anchored to walls with base cement or screws. Use pre-molded outside corners and neatly mitered inside corner.

3.05 CLEANING

- A. Clean up all unused materials and debris and remove it from the premises.

END OF SECTION

SECTION 10 14 00

SIGNAGE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Panel signs.
- B. Dimensional letters and numbers.
- C. Cast metal plaques.

1.02 SUBMITTALS

- A. Product data for each type of sign specified, including details of construction relative to materials, dimensions of individual components, profiles and finishes.
- B. Shop drawings showing fabrication and erection of signs, include plans, elevations, and large-scale sections of typical members and other components. show anchors, grounds, layout, reinforcement, accessories and installation details
 - 1. Provide message list for each sign required, including large-scale details of wording and lettering layout.
 - 2. For signs uprooted by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
 - 3. Templates: Furnish full-size spacing templates for individually mounted dimensional letters and numbers.
 - 4. Furnish full-size rubbings for metal plaques.
- C. Samples: Provide the following samples of each sign component for initial selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated.
 - 1. Samples for initial selection of color, pattern, and texture.
 - a. Cast Acrylic Sheet and Plastic Laminate: Manufacturer's color charts consisting of a actual sections of material including the full range of colors available for each material required.
 - b. Aluminum: Samples of each finish type and color, on 6-inch-long sections of extrusions and not less than 4-inch squares of sheet or plate, showing the full range of colors available.

1.03 QUALITY ASSURANCE

- A. Sign Fabricator Qualifications: Firm experienced in producing signs similar to those indicated for this Project, with a record of successful in-service performance, and sufficient production capacity to produce sign units required without causing delay in the Work.
- B. Single-Source Responsibility: For each separate sign type required, obtain signs from one source of a single manufacturer.
- C. Design Concept: The Drawings indicate sizes, profiles, and dimensional requirements of signs and are based on the specific types and models indicated. Sign units by other manufacturers may be considered provided deviations in dimensions and profiles do not change the design concept as judged by the Architect. The burden of proof of equality is on the proposer.
- D. Regulatory Requirements: Comply with requirements of NFPA 101 and ANSI N2.1 for graphic symbols, colors, and printed information for panel signs.
 - 1. Comply with requirements of applicable Building Code, most recent edition.
 - 2. Comply with requirements of ANSI A117.1

1.04 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirement, provide products by one of the following comparable to the basis of design product indicated:
 - 1. Manufacturers of Panel Signs:
 - a. Mohawk Sign Systems (Basis of Design).
 - b. APCO Graphics, Inc.
 - c. Andco Industries Corp.
 - d. ASI Sign Systems, Inc.
 - 2. Manufacturers of Dimensional Letters:
 - a. Mohawk Sign Systems (Basis of Design).
 - b. Andco Industries Corp.
 - c. ASI Sign Systems, Inc.
 - 3. Manufacturers of Cast Plaques:
 - a. Mohawk Sign Systems (Basis of Design).
 - b. Andco Industries Corp.
 - c. ASI Sign Systems.
- B. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MATERIALS

- A. Cast Acrylic Sheet: Provide cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet, with a minimum flexural strength of 16,000 psi when tested according to ASTM D 790, with a minimum allowable continuous service temperature of 176 deg. G, and the following general types:
 - 1. Transparent Sheet: Where sheet material is indicated as "clear", provide colorless sheet in matte finish, with light transmittance of 92 percent, when tested according to the requirements of ASTM D 1003.
 - 2. Opaque Sheet: Where sheet material is indicated as "opaque", provide colored opaque acrylic sheet in colors and finishes as selected from the manufacturer's standards.
- B. Aluminum Sheet: Provide aluminum sheet of alloy and temper recommended by the sign manufacturer for the type of use and finish indicated, and with not less than the strength and durability properties specified in ASTM B 209 for 5005-H15.
- C. Aluminum Castings: Provide aluminum castings of alloy and temper recommended by the sign manufacturer for the casting process used and for the use and finish indicated.
- D. Fasteners: Use concealed fasteners fabricated from the metals that not corrosive to the sign material and mounting surface.
- E. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for exterior installation and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
- F. Colored Coatings for Acrylic Plastic Sheet: Use colored coatings, including inks and paints for copy and background colors, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are nonfading for the application intended.

2.03 PANEL SIGNS

- A. Panel Signs: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
 - 1. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally.
 - 2. Material: Acrylic plastic.
 - 3. Corner Condition: Square corners.
- B. Subsurface Copy: Apply copy to the back face of clear acrylic sheet forming the panel face by process indicated to product precisely formed opaque images free from rough edges.
 - 1. Use reverse silk-screen process to print copy; overspray the copy with an opaque background color coating.
 - 2. Use Dupont Chromalin heat-and-pressure-laminated photopolymer film system to form copy and background color
 - a. The manufacturer has the option of selecting either process indicated above.
 - 3. No raised applied letters or graphics allowed.

2.04 OCCUPANCY SIGNS

- A. Provide two (2) each occupancy signs:
 - 1. Size: 8 x 12 inches.
 - 2. Text: Maximum occupancy load TBD number of persons.
 - 3. Character: Helvetica, 1 inch high.
 - 4. Type: Unframed panel sign.
 - 5. Copy: Raised surface.

2.05 MISCELLANEOUS SIGNS

- A. Stairs.
- B. Accessible Ramp.

2.06 DIMENSIONAL LETTERS AND NUMBERS

- A. Cutout Letters and Numbers: Cut letters and numbers from solid plate material of thickness indicated. Produce precisely cut characters with square cut, smooth edges. Comply with requirements indicated for finish, style, and size.
 - 1. Metal: Aluminum.
 - 2. Letter Height: 8 inches.
 - 3. Letter Style: As selected by Architect from manufacturer's available fonts.

2.07 CAST METAL PLAQUES

- A. Plaques: Castings shall be free from pits, scale, sand holes, or other defects. Comply with requirements specified for metal, border style, background texture, and finish and with requirements shown for thickness, size, shape and copy. Hand-tool and buff borders and raised copy to produce the manufacturer's standard satin polished finish. Refer to the "Finishes" Article for other finish requirements.
 - 1. Metal: Aluminum.
 - 2. Size: 24 x 36 inches.
 - 3. Border Style: Plain bevel.
 - 4. Background Texture: Manufacturer's standard pebble texture.
 - 5. Background Finish: Clear anodized.
 - 6. Letter Style: As selected by Architect from manufacturer's available fonts.

2.08 FINISHES

- A. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors, surface textures or other characteristics related to appearance, provide color matches indicated, or if not indicated, as selected by the Architect from the manufacturer's standards.

- B. Metal Finishes: Comply with NAAMM "Metal Finishes Manual" for finish designations and applications recommendations.
- C. Aluminum Finishes: Finish designations prefixed by "AA" conform to the system established by the Aluminum Association for designating aluminum finishes.
 - 1. Class II Clear Anodized Fine Satin Finish: AA-M31C21A31 (Mechanical Finish: Fine satin directional textured; Chemical Finish: Fine matte etched finish; Anodic Coating: Class II Architectural, clear film thicker than 0.4 mil).

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

- A. General: Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions.
 - 1. Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.
 - 2. Install signs at height indicated below, measured from the finish floor to centerline of sign panel:
 - a. Elementary Schools: 48 inches.
 - 3. Locate panel signs spaced 6 inches from frame of door, or latch side of door, unless otherwise indicated.
- B. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using the methods indicated below:
 - 1. Silicone-Adhesive Mounting: Use liquid silicone adhesive recommended by the sign manufacturer to attach sign units to irregular, porous, or vinyl-covered surfaces. Use double-sided vinyl tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured.
- C. Dimensional Letters and Numbers: Mount letters and numbers using standard fastening methods recommended by the manufacturer for letter form, type of mounting, wall construction, and condition of exposure indicated. Provide heavy paper template to establish letter spacing and to locate holes for fasteners.
 - 1. Projected Mounting: Mount letters at the projection distance from the wall surface indicated.
- D. Cast Metal Plaques: Mount plaques using the standard method recommended by the manufacturer for the type of wall surface indicated.
 - 1. Concealed Mounting: Mount the plaques by inserting threaded studs into tapped lugs on the back of the plaque. Set in predrilled holes filled with quick-setting cement.
- E. Protect from damage until Substantial Completion; repair or replace damaged items.

3.03 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to the manufacturer's instructions. Protect units from damage until acceptance by the Owner.

3.04 INTERIOR PANEL SIGN SCHEDULE

- A. Interior Panel Sign: Classroom Sign.
 - 1. Unit Size: 8 x 8 inch.
 - 2. Permanent raised copy band: Classroom number & braille.
 - 3. Insertable subsurface for teacher name, image.
- B. Interior Panel Sign: Room Identification Sign.
 - 1. Unit Size: 8 x 8 inch.
 - 2. Permanent raised copy band: Room number & braille.

- C. Interior Panel Sign: Restroom Identification Sign.
 - 1. Unit Size: 6 x 8 inch.
 - 2. Permanent raised copy and pictogram: ANSI N2.1.
- D. Interior Panel Sign: Stair Sign.
 - 1. Unit Size: 6 x 9 inch.
 - 2. Sign Construction: See Drawings.
- E. Interior Panel Sign: Elevator Sign.
 - 1. Unit Size: 6 x 9 inch.
 - 2. Sign Construction: See Drawings.
- F. Interior Panel Sign: Wayfinding Sign.
 - 1. Unit Size: 10 x 6 inch.
 - 2. Sign Construction: See Drawings.
- G. Interior Panel Sign: Multi-Gender Restroom Sign.
 - 1. Unit Size: 6 x 6 inch.
 - 2. Permanent raised copy and pictogram: ANSI N2.1.

3.05 INTERIOR PANEL SIGN COPY SCHEDULE

- A. See door and signage schedule on the Drawings.

END OF SECTION

SECTION 10 73 01

ALUMINUM WALL HUNG CANOPY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Design, fabrication, and installation of welded extruded aluminum canopy systems.

1.02 REFERENCES

- A. The Aluminum Association (AA):
 - 1. The Aluminum Design Manual 2000, Specifications & Guidelines for Aluminum Structures.
- B. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum.
 - 2. AAMA 2603, Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - 3. AAMA 2605, Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- C. American Society of Civil Engineers (ASCE):
 - 1. ASCE 7, Minimum Design Loads for Buildings and Other Structures.
- D. American Society for Testing and Materials (ASTM):
 - 1. ASTM B 209, Specification for Aluminum and Aluminum- Alloy Sheet and Plate.
 - 2. ASTM B 221, Specification for Aluminum and Aluminum- Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 3. ASTM C 150, Specification for Portland Cement.
 - 4. ASTM C 404, Specification for Aggregates for Masonry Grout.
- E. American Welding Society (AWS):
 - 1. ANSI/AWS D1.2, Structural Welding Code - Aluminum.

1.03 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Design Walkways in accordance with The Aluminum Design Manual 2000.
 - 2. Comply with the wind requirements of ASCE 7.
 - 3. Provide an all welded extruded aluminum canopy system complete with internal drainage. Non-welded systems are not acceptable.
 - 4. Provide expansion joints to accommodate temperature changes of 120 degrees F. Provide expansion joints with no metal to metal contact.

1.04 SUBMITTALS

- A. Product Data: Manufacturer's product information, specifications, and installation instructions for canopy components and accessories.
- B. Shop Drawings: Include plan dimensions, elevations, and details.
- C. Samples:
 - 1. Selection: Manufacturer's standard range of colors for the finishes selected.
 - 2. Verification: 2-inch-square samples of each finish selected on the substrate specified.
- D. Design Data: Design calculations bearing the seal of a Registered Professional Engineer, licensed in North Carolina. Design calculations shall state that the canopy system design complies with the wind requirements of ASCE 7, the stability criteria of applicable building code, and all other governing criteria.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: At least ten years of experience in the design, fabrication, and erection of extruded aluminum canopy systems.
- B. Installer Qualifications: Have canopy installed by manufacturer, third party installation is not acceptable.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The design is based on products fabricated by: Peachtree Protective Covers, Inc., 1477 Rosedale Drive, Hiram, GA 30141, 770-439-2120, fax 770-439-2122.
 - 1. Comparable products by the following manufacturers also will be acceptable:
 - a. Dittmer Architectural Aluminum.
 - b. Avadek Walkway Cover Systems.
 - c. Mapes Architectural Canopies.
 - 2. Substitutions: Comparable products of other manufacturers will be considered in accordance with Section 01 60 00 - Product Requirements.

2.02 MATERIALS

- A. Aluminum Members: Extruded aluminum, ASTM B 221, 6063 alloy, T6 temper.
- B. Fasteners: Aluminum, 18-8 stainless steel, or 300 series stainless steel.
- C. Protective Coating for Aluminum Columns Embedded in Concrete: Clear acrylic.
- D. Gaskets: Dry seal santoprene pressure type.
- E. Aluminum Flashing: ASTM B 209, Type 3003 H14, 0.040 inch, minimum.

2.03 FABRICATION

- A. General:
 - 1. Shop Assembly: Assemble components in shop to greatest extent possible to minimize field assembly.
 - 2. Welding: In accordance with ANSI/AWS D1.2.
 - 3. Gutter Frame Construction: Factory assemble gutter fascia frames to form a one-piece welded frame. Make welds smooth and uniform using an inert gas shielded arc. Perform suitable edge preparation to assure 100% penetration. Grind welds only where interfering with adjoining structure to allow for flush connection. Field welding is not permitted. Gutter frames constructed by mechanically fastening components together are not acceptable.
 - 4. Deck Construction: Fabricate from extruded modules that interlock in a self-flashing manner. Positively fasten interlocking joints creating a monolithic structural unit capable of developing the full strength of the sections. The fastenings must have minimum shear strength of 350 pounds each.
- B. Beams: Where applicable provide open-top tubular extrusion, top edges thickened for strength and designed to receive deck members in self-flashing manner.
- C. Deck: Extruded self-flashing sections interlocking into a composite unit.
- D. Gutter Fascia: Where applicable provide "j-shaped" gutter fascia capable in manufacturer's standard sizes.
- E. Fascia: Where applicable provide manufacturer's standard fascia in standard sizes.
- F. Hanger Assemblies: Provide extruded aluminum hanger rods in manufacturer's standard shapes and sized to meet the loads required for the canopy.
- G. Factory Finishing: Finish designations prefixed by AA comply with system established by the AAMA for designating aluminum finishes.
 - 1. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.4 mils to 0.7 mils thick), complying with AAMA 611.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that all concrete, masonry, and roofing work in the vicinity is complete and cleaned.

3.02 ERECTION

- A. Erect canopy true to line, level, and plumb.
- B. Provide hairline miters and fitted joints.

3.03 CLEANING

- A. Clean all canopy components promptly after installation.

3.04 PROTECTION

- A. Protect materials during and after installation.

END OF SECTION

SECTION 11 31 00
RESIDENTIAL APPLIANCES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. ~~Microwave.~~
 - 2. Refrigerators.
 - 3. Washer and Dryer.
 - 4. Ice Machine. (Addendum No. 1)

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.

1.03 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Field quality-control reports.
- C. Sample warranties.

1.04 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.05 WARRANTY

- A. Special Warranties: Manufacturer agrees to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 ~~MICROWAVE OVENS (Addendum No. 1)~~

- A. ~~Microwave Oven:~~
 - 1. ~~Manufacturers: Subject to compliance with requirements, provide products by one of the following:~~
 - a. ~~Amana; a division of Whirlpool Corporation.~~
 - b. ~~General Electric Company (GE Appliances). (Basis of Design)~~
 - c. ~~KitchenAid; a division of Whirlpool Corporation.~~
 - 2. ~~Mounting: Countertop~~
 - 3. ~~Capacity: 2.2 cu. ft.~~
 - 4. ~~Microwave Power Rating: 1200 W.~~
 - 5. ~~Material: Stainless steel.~~
 - 6. ~~Model No. JES2251SJ by General Electric or equal.~~

2.02 REFRIGERATOR/FREEZERS

- A. Refrigerator/Freezer: Two-door refrigerator/freezer with freezer on bottom and complying with AHAM HRF-1.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amana; a division of Whirlpool Corporation.
 - b. General Electric Company (GE Appliances). (Basis of Design)
 - c. KitchenAid; a division of Whirlpool Corporation.
 - 2. Type: Freestanding.
 - 3. Storage Capacity: 23.8 Cu. Ft.

4. General Features:
 - a. Dispenser in door for ice and cold water.
 - b. Interior light in refrigeration compartment.
 - c. Interior light in freezer compartment.
 - d. Automatic icemaker and storage bin.
5. ENERGY STAR: Provide appliances that qualify for the EPA/DOE ENERGY STAR product-labeling program.
6. Model No. GFE24JSKSS by General Electric.

2.03 CLOTHES WASHERS AND DRYERS (Addendum No. 1)

- A. Clothes Washer: Complying with AHAM HLW-1.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amana; a division of Whirlpool Corporation.
 - b. General Electric Company (GE Appliances). (Basis of Design)
 - c. Whirlpool Corporation.
 2. Type: Freestanding, front-loading unit.
 3. Capacity: 4.5 Cu. Ft.
 4. ENERGY STAR: Provide appliances that qualify for the EPA/DOE ENERGY STAR product-labeling program.
 5. Water-Efficient Clothes Washer: Provide clothes washer with modified energy factor greater than or equal to 2.0 and water factor less than 5.5.
 6. Appliance Finish: Enamel.
 7. Model No. GFW430SSMWW by General Electric.
- B. Clothes Dryer: Complying with AHAM HLD-1.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amana; a division of Whirlpool Corporation.
 - b. General Electric Company (GE Appliances). (Basis of Design)
 - c. Whirlpool Corporation.
 2. Type: Freestanding, frontloading, electric.
 3. Capacity: 7.5 Cu. Ft.
 4. Features:
 - a. Interior drum light.
 5. Appliance Finish: Enamel.
 6. Model No. GFD43ESSMWW by General Electric.

2.04 ICE MACHINE (Addendum No. 1)

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. General Electric Company (GE Appliances).
 2. Manitowoc; Model No. UNF-0200 (Basis of Design)
 3. Scotsman Ice Machines.
- B. Condenser Heat of Rejection (BTU per hour): 2,400 (average) on RNS0244.
- C. Compressor: Nominal rating: 1/4 HP on RNS0244.
- D. Refrigerant: R-404A.
- E. Storage: Up to 50 lbs.
- F. Stainless steel cabinet.
- G. Air-cooled.
- H. Ice Production: 187 lbs. over 24 hours.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Built-in Equipment: Securely anchor units to supporting cabinets or countertops with concealed fasteners. Verify that clearances are adequate for proper functioning and that rough openings are completely concealed.
- B. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.

3.02 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
 - 1. Perform visual, mechanical, and electrical inspection and testing for each appliance according to manufacturers' written recommendations. Certify compliance with each manufacturer's appliance-performance parameters.
 - 2. Leak Test: After installation, test for leaks. Repair leaks and retest until no leaks exist.
 - 3. Operational Test: After installation, start units to confirm proper operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.
- B. An appliance will be considered defective if it does not pass tests and inspections.
- C. Prepare test and inspection reports.

END OF SECTION

SECTION 11 60 30

PERFORMANCE SPACE CURTAINS

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes stage curtains and rigging.

1.02 SUBMITTALS

- A. Perform Field Measurements and include field verified dimension in submittal drawings
1. Verify actual stage dimensions.
 2. Verify actual support steel dimensions.
 3. Coordinate location of support pipe battens and other hardware with fire sprinkler pipes and heads, plumbing system piping, conduit, HVAC ducting, roof smoke hatches and other equipment in the areas of stage rigging.
- B. Submit the following under provisions of Division 01 and according to the Conditions of the Contract:
1. Fully dimensioned shop drawings in "D" size (or digital CAD drawings in .dwg or .pdf format with full size print capability). Drawings are to include plans, elevations and detail sections of typical stage equipment systems and elements, estimated building loads imposed by the furnished equipment, anchor and fastening detail 1s, miscellaneous equipment details and any additional information required to evaluate the completeness and correctness of the rigging systems. Deviations from specified equipment are to be "starred" and noted on the submittal drawings. Only deviations that upgrade the quality of the equipment will be considered.
 2. Include structural analysis data for rigging signed and sealed by the qualified professional engineer responsible for their preparation.
 3. Samples: For each type of fabric from dye lot to be used for the Work, with specified treatments applied, and showing complete pattern and texture repeat, if any.
 4. Product certificates.
 5. Submit the following within 30 days of the completion of installation:
 - a. Three sets of operations and maintenance documentation.
 - b. Three sets of as-built drawings in "B" size (or CAD drawings in .dwg or .pdf format with full size print capability).
 - c. Equipment warranty documentation.

1.03 QUALITY ASSURANCE

- A. Stage Equipment and Installer Qualifications
1. A single rigging hardware manufacturer under a single contract will furnish and install all rigging hardware components and stage curtains.
 2. The Contractor must have successfully completed at least ten (10) similar projects within the last ten years. Project location, completion scope of work and Owner/Specifier contact must be furnished upon request.
 3. The Contractor must submit written evidence that he maintains a fully equipped field service organization capable of providing prompt inspection, service and repairs of the installed system.
- B. Regulatory Requirements:
1. Comply with governing National, State and City regulations.
- C. Standards
1. All equipment, where standards have been established, must be built to recognized standard. Standards are established by the following organizations:
 - a. Underwriters Laboratories.
 - b. National Electric Code.

- c. Uniform Building Code.
 - d. National Fire Protection Agency.
 - e. Occupational Safety and Health Administration
 - f. United States Institute for Theatre Technology.
 - g. Entertainment Services and Technology Association Technical Standards.
 - h. "Specifications for Design, Fabrication and Erection of Structural Steel for Buildings," of the American Institute of Steel Construction, 6th Edition.
 - i. "Wire Rope User's Manual" of the Wire Rope Technical Board, Third Edition.
2. No deviation is permitted from the requirement for UL Listing. For curtain machine operators, the entire machine must be UL or ETL listed. Listing of only the control box or components of the curtain machine operator is not acceptable.

1.04 WARRANTY

- A. Special Warranty for Rigging Equipment: Manufacturer's standard form in which manufacturer agrees to repair or replace components of rigging equipment that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Two (2) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 CURTAIN FABRICS

- A. General: Provide fabrics inherently and permanently flame resistant or chemically flame resistant by immersion treatment to comply with requirements indicated. Provide fabrics from the same dye lot.
- B. Woven Cotton Velour: Napped fabric of 100 percent cotton; 54-inch minimum width.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. Medium Weight: Fabric weighing not less than 20 oz./ linear yard before flame-retardant treatment, with pile height not less than 75 mils.
 - 1) Frankel Associates, Inc; 650.
 - 2) JB Martin Ltd.; #2603 Concertino.
 - 3) J.L. de Ball America, Inc.; #3113 8 Sydney.
 - 4) KM Fabrics, Inc.; Marvel.
 - 5) Valley Forge Fabrics, Inc.; 2020 Velour.
 - b. Colors: As selected by Architect from manufacturer's full range.
- C. Polyester Velour: Napped fabric of 100 percent polyester weighing not less than 23 oz./linear yard, with pile height approximately 75 mils; inherently and permanent flame resistant; 54-inch minimum width.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. J.L. de Ball America, Inc.; Diablo.
 - b. KM Fabrics, Inc.; Prestige.
 3. Colors: As selected by Architect from manufacturer's full range.
- D. Lining: Yarn-dyed denim cloth of 100 percent cotton; woven in a warp-faced twill; 54-inch minimum width.

2.02 CURTAIN FABRICATION

- A. General: Affix permanent label, stating compliance with requirements of authorities having jurisdiction, in accessible location on curtain not visible to audience. Provide vertical seams, unless otherwise indicated. Arrange vertical seams so they do not fall on faces of pleats. Do not use fabric cuts less than one-half width.

1. Vertical Hems: Provide vertical hems not less than 2 inches wide, with not less than a 1-inch tuck, and machine-sewn with no sewage material visible from front of curtain. Sew open ends of hems closed.
 2. Leading Edge Turnbacks: Provide turnbacks formed by folding not less than one-half width of face fabric back, with not less than a 1-inch tuck and secured by sewing turnbacks vertically.
 3. Top Hems: Reinforce top hems by double-stitching 3- 1/2-inch with heavy Jute webbing to top edge with not less than 2 inches of face fabric turned under.
 4. Pleats: Provide 50 percent fullness in curtains, exclusive of turnbacks and hems, by sewing additional material into 3-inch double-stitched box pleats spaced at 12 inches o.c. along top hem reinforcement.
 5. Pleats: Provide 100 percent fullness in curtains, exclusive of turnbacks and hems, by sewing additional material into 6-inch double-stitched box pleats spaced at 12 inches o.c. along top hem reinforcement.
 6. Gromets: Brass, No. 3, centered on each box pleat and 1 inch (25 mm) from corner of curtain, for snaps or S-hooks.
 - a. For black curtains, provide brass or aluminum grommets with black finish.
 7. Bottom Hems:
 - a. For curtains that do not hang to the floor, provide weirs not less than 3 inches deep with 3/4-inch weight tape.
 - b. For floor-length curtains, provide hems not less than 6 inches deep with 1-inch weight tape. Sew open ends of hems closed.
 8. Velvet Curtains: Fabricate with the fabric nap down.
 9. Lining: Provide lining for each curtain in same fullness as face fabric and finished 2 inches shorter than face fabric. Attach lining to face fabric along bottom and side seams with 4-inch long strips of heavy woven cotton tape.
 10. Valance curtain: Same material and fabrication as stage curtain.
- B. Tie Lines: Braided soft cotton, black or white to best match curtain; not less than 5/8 inch wide by 36 inches long.

2.03 RIGGING

- A. S-Hooks: Track manufacturer's heavy-duty plated-wire hooks.
 1. Snap Hooks: Track manufacturer's heavy-duty hooks.
- B. Supports, Clamps, and Anchors: Sheet steel in manufacturer's standard thicknesses, galvanized after fabrication according to ASTM A 153/A 153M, Class B.
- C. Trim and Support Cable: 1/4-inch diameter, 7x9 galvanized steel aircraft cable with a breaking strength of 7000 lb. Provide fittings complying with cable manufacturer's written recommendations for size, number, and method of installation, including a drop-forged galvanized turnbuckle to allow for leveling.
- D. Inserts, Bolts, Rivets, and Fasteners: Manufacturer's standard corrosion-resistant fasteners.
- E. Steel Track: Fabricate of roll-formed, galvanized, commercial-quality, zinc-coated steel sheet; complying with ASTM A 653/A 653M, G60 (Z180) coating designation, with continuous bottom slot, and with each half of track in one continuous piece.
 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Automatic Devices Company; Silent Steel #282.
 - b. H & H Specialties Inc.; 400 series.
 2. Minimum Base-Metal Thickness: Not less than 0.0528 inch; 0.0677 inch.
 3. Approximate Maximum Curtain Weight Capacity: 50 pounds / linear foot.

2.04 STEEL-CURTAIN-TRACK FABRICATION

- A. Heavy-Duty Track System: Provide single curtain carriers of plated steel with a pair of nylon-tired ball-bearing wheels riveted parallel to body. Equip carriers with neoprene or rubber bumper to reduce noise, and heavy-duty, plated-steel swivel eye and manufacturer's standard trim chain for attaching curtain snap or S-hook. Provide end stops for track. Design adjustable floor block to maintain proper tension on operating line.
 - 1. Operating Line: Manufacturer's standard.
 - 2. Track Lap Clamp: Metal to match track channel.
 - 3. Curtain Carriers: For track spaced at 12 inches (300 mm) o.c.
 - 4. Fold Guide: Equip carriers with rear-fold or backpack guide and rubber spacers to permit offstage curtain folding, sized for use with operating line if any.

PART 3 - EXECUTION

3.01 TRACK INSTALLATION

- A. Roof Structure -Mounted Tracks: Provide pipe battens, chain and other suspension hardware as required to support track at spacing required for smooth operation of the track assembly.
- B. Wall-Mounted Tracks: Install tracks by suspending from manufacturer's special bracket clamps securely mounted to wall construction at spacing, according to manufacturer's written instructions.
- C. Spacing: Do not exceed the following dimensions between supports:
 - 1. Heavy-Duty Track: 48 inches.
- D. Install track for center-parting curtains with not less than 24-inch overlap of track sections at center, supported by special lap clamps.

3.02 CURTAIN INSTALLATION

- A. Track Hung: Secure curtains to track carriers with track manufacturer's special heavy-duty S-hooks or snap hooks.

3.03 DEMONSTRATION

- A. Engage a factory-authorized service representative to test system and to train Owner's personnel to rig, adjust, operate, and maintain stage curtains, tracks, and draw-curtain machines.

END OF SECTION

SECTION 11 66 23
GYMNASIUM EQUIPMENT

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Basketball equipment.
 - 2. Volleyball equipment.
 - 3. Safety pads.
 - 4. Scoreboard and shot clocks. (Addendum No. 1)
- B. Related Requirements:
 - 1. Section 03 30 00 "Cast-in-Place Concrete" for installation of floor insert sleeves to be cast in concrete slabs.
 - 2. Section 09 64 66 "Wood Athletic Flooring" for game lines and markers.
 - 3. Section 11 66 53 "Gymnasium Dividers."

1.02 DEFINITIONS

- A. FIBA: Federation Internationale de Basketball Amateur (The International Basketball Federation).
- B. FIVB: Federation Internationale de Volleyball (The International Volleyball Federation).
- C. NCAA: The National Collegiate Athletic Association.
- D. NFHS: National Federation of State High School Associations.
- E. USAV: USA Volleyball.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. If applicable, include assembly, disassembly, and storage instructions for removable equipment.
 - 2. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.
- B. Shop Drawings: For gymnasium equipment, including scoreboard.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Include details of field assembly for removable equipment, connections, installation, mountings, floor inserts, attachments to other work, and operational clearances.
 - 3. Include transport and storage accessories for removable equipment.
- C. Samples: For each exposed product and for each item and color specified.
- D. Samples for Initial Selection: For each type of gymnasium equipment.
- E. Samples for Verification: For the following products:
 - 1. Basketball Net: Full size.
 - 2. Volleyball Badminton Net: Minimum 12-inch (305-mm) length by full height, including one edge and net accessories.
 - 3. Volleyball Badminton Floor Insert: Full-size unit.
 - 4. Volleyball Badminton Post Standard: Full-size unit with net tensioner.
 - 5. Pad Fabric: Wall padding not less than 3 inches (76 mm) square, and corner and column Samples not less than 3 inches (76 mm) long, with specified treatments applied. Mark face of material.

1.04 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Court layout plans, drawn to scale, and coordinated with floor inserts, game lines, and markers applied to finished flooring.
- B. Qualification Data: For Installer.

- C. Product Certificates: For each type of gymnasium equipment.
- D. Sample Warranty: For special warranty.

1.05 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For gymnasium equipment to include in emergency, operation, and maintenance manuals.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.07 FIELD CONDITIONS

- A. Environmental Limitations: Do not install gymnasium equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Verify position and elevation of floor inserts and layout for gymnasium equipment.

1.08 COORDINATION

- A. Coordinate installation of floor inserts with structural floors and finish flooring installation and with court layout and game lines and markers on finish flooring.
- B. Coordinate layout and installation of overhead-supported gymnasium equipment and suspension-system components with other construction including light fixtures, HVAC equipment, fire-suppression-system components, and partition assemblies.

1.09 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of gymnasium equipment that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Basketball backboard failures including glass breakage.
 - b. Faulty operation of basketball backstops.
 - 2. Warranty Period: 10 years from date of Final Acceptance.

PART 2 - PRODUCTS

2.01 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain gymnasium equipment from single source from single manufacturer.

2.02 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Basketball backstops and anchors shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

2.03 BASKETBALL EQUIPMENT

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Draper Inc.
 - 2. Performance Sports Systems. (Basis of Design)
 - 3. Porter Athletic Equipment Company.
 - 4. Progressive Sports Construction Group.
- B. General: Provide equipment complying with requirements in NCAA's "Men's and Women's Basketball Rules."
- C. Protruding fasteners or exposed bolt heads on front face of backboards are not permitted.
- D. Provide manufacturer's recommended connections complying with Section 05 50 00 "Metal Fabrications" of size and type required to transfer loads to building structure.
- E. Ceiling Suspended Forward Fold Backstops:

1. Model No. 3107 "Single Post" ceiling suspended, forward fold, front braced backstop as manufactured by Performance Sports Systems, Noblesville, Indiana.
 2. "Single Post" vertical main mast assembly shall be constructed of 6-5/8" O.D. (.120" wall ASTM A-500 Grade B) structural steel tubing with diagonal side sway braces of 2 1/2" X 1 1/2" X14 gauge ASTM A-513 rectangular steel tube sway braces miter cut and welded in place to a top horizontal 4" x 1 1/2" x 0.18" web ASTM A-36 steel channel. Sway braces shall attach to mast above backboard for maximum rigidity. Mast and sway braces shall be welded for ceiling heights up to thirty (30) feet. Mast and sway braces shall be clamped for ceiling heights over thirty (30) feet (Model 3106). Backstop shall be front braced and fold forward. Front brace assembly shall have a fully adjustable folding knee joint allowing for exact playing position and maintenance free operation.
 3. Goal shall be mounted directly through backboard into a heavy structural steel weldment which shall be clamped to vertical 6-5/8" O.D. center mast. (This direct attachment feature transfers the load on the goal directly to the mast pipe minimizing stress to glass backboard). Goal and backboard mounting design shall conform to NCAA, NFSHSA and FIBA regulations
 4. The all-welded "Single Post" design shall be suspended from custom adjustable hangers with bronze bushings designed to be offset no less than 4" behind the center line of gravity of mast, providing for proper weighting of the assembly and insuring that unit locks securely and automatically into playing position.
 5. Backstop shall be supported from 3-1/2" O.D. pipe anchored to roof framing members by means of heavy formed steel support fittings. Superstructure pipes to be reinforced with special bridging or bracing when truss centers exceed spans of fourteen (14) feet. Each attachment clamp must be capable of supporting static loads of at least 10,000 lbs. with no deflection.
 6. All metal parts shall have factory applied powder coat finish in standard black. Available colors: white, blue, red, gray, and yellow.
 7. Basketball Goals: Complete with flanges, braces, attachment plate, and evenly spaced loops welded around underside of ring.
 - a. Single-Rim Basket Ring Competition Goal: Materials, dimensions, and fabrication complying with referenced rules.
 - b. Type: Movable, breakaway design with manufacturer's standard breakaway mechanism and rebound characteristics identical to those of fixed, nonmovable ring.
 - c. Breakaway Characteristics: Positive-lock movable breakaway design, with manufacturer's standard breakaway mechanism including preset pressure release, set to release at 230-lb (105-kg) load, and automatic reset. Provide movable ring with rebound characteristics identical to those of fixed, nonmovable ring.
 - d. Field Adjustment: Provide rim that is field-adjustable for rebound elasticity without being removed from the backboard.
 - e. Mount: Front.
 - f. Net Attachment: No-tie loops for attaching net to rim without tying.
 - g. Finish: Polyester powder-coat finish.
 8. Basketball Nets: 12-loop-mesh net, between 15 and 18 inches (380 to 460 mm) long, sized to fit rim diameter, and as follows:
 - a. Cord: Made from white nylon.
 9. Backboard Safety Pads: Designed for backboard thickness indicated and extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports as required by referenced rules.
 - a. Attachment: Bolt on.
 - b. Color: As selected by Architect from manufacturer's full range.
- F. Ceiling Suspended Rear Fold Backstops:
1. Model No. 3105 "Single Post" ceiling suspended, rear fold, rear braced backstop as manufactured by Performance Sports System., Noblesville, Indiana.

2. "Single Post" vertical main mast assembly shall be constructed of 6-5/8" O.D. (.120" wall ASTM A-500 Grade B) structural steel tubing with diagonal side sway braces of 2 1/2" X 1 1/2" X14 gauge ASTM A-513 rectangular steel tube sway braces miter cut and welded in place to a top horizontal 4" x 1 1/2" x 0.18" web ASTM A-36 steel channel. Sway braces shall attach to mast above backboard for maximum rigidity. Mast and sway braces shall be welded for ceiling heights up to thirty (30) feet. Mast and sway braces shall be clamped for ceiling heights over thirty (30) feet (Model 3104). Backstop shall be rear braced and fold to rear. Rear brace assembly shall have fully adjustable folding knee joint allowing for exact playing position and maintenance free operation.
 3. Goal shall be mounted directly through backboard into a heavy structural steel weldment which shall be clamped to the vertical 6-5/8" O.D. center mast. (This direct attachment feature transfers the load on the goal directly to the mast to minimize stress to glass backboard). Goal and backboard mounting design shall conform to NCAA, NFSHSA and FIBA regulations
 4. The all-welded "Single Post" design shall be suspended from custom adjustable hangers with bronze bushings designed to be offset no less than 4" behind the center line of gravity of mast, providing for proper weighting of the assembly and insuring that unit locks securely and automatically into playing position.
 5. Backstop shall be supported from 3-1/2" O.D. pipe anchored to roof framing members by means of heavy formed steel support fittings. Superstructure pipes to be reinforced with special bridging or bracing when truss centers exceed spans of fourteen (14) feet. Each attachment clamp must be capable of supporting static loads of at least 10,000 lbs. with no deflection.
 6. All metal parts shall have factory applied powder coat finish in standard black. Available colors: white, blue, red, gray, and yellow.
 7. Basketball Goals: Complete with flanges, braces, attachment plate, and evenly spaced loops welded around underside of ring.
 - a. Single-Rim Basket Ring Competition Goal: Materials, dimensions, and fabrication complying with referenced rules.
 - b. Type: Movable, breakaway design with manufacturer's standard breakaway mechanism and rebound characteristics identical to those of fixed, nonmovable ring.
 - c. Breakaway Characteristics: Positive-lock movable breakaway design, with manufacturer's standard breakaway mechanism including preset pressure release, set to release at 230-lb (105-kg) load, and automatic reset. Provide movable ring with rebound characteristics identical to those of fixed, nonmovable ring.
 - d. Field Adjustment: Provide rim that is field-adjustable for rebound elasticity without being removed from the backboard.
 - e. Mount: Front.
 - f. Net Attachment: No-tie loops for attaching net to rim without tying.
 - g. Finish: Polyester powder-coat finish.
 8. Basketball Nets: 12-loop-mesh net, between 15 and 18 inches (380 to 460 mm) long, sized to fit rim diameter, and as follows:
 - a. Cord: Made from white nylon.
 9. Backboard Safety Pads: Designed for backboard thickness indicated and extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports as required by referenced rules.
 - a. Attachment: Bolt on.
 - b. Color: As selected by Architect from manufacturer's full range.
- G. Electric Winch:
1. Model No. 1194 Electric Backstop Winch by Performance Sports Systems, Noblesville, IN.
 2. Electric winch shall be a definite purpose electric winch designed specifically for use of basketball backstop positioning. Winch shall be worm gear type designed to hold backstop at any position during operation. Winch will be driven by a 3/4 HP, 120-volt, 60 hertz, single-phase instant reversing electric motor with thermal overload protection (governed to

- stall at 14 amps to prevent overload) and manufactured to NEMA specifications. Winch shall develop over 1000 lbs. of line pull at a speed of nine (9) feet per minute.
3. Winch shall have high-speed worm gearing to support both radial and thrust loads, and positive locking double reduction gear drive providing 200:1 reduction rate for strong cable hold under load, eliminating need for special brakes. Sealed gear case for lifetime maintenance free operation.
 4. Winch shall incorporate a large 4-1/2" diameter grooved drum to assure long cable life and proper coiling, with a tension roller for correct cable tracking even in slack conditions. Drum shall be grooved for 1/4" 7 x 19 galvanized aircraft cable to facilitate smooth take-up and proper spooling of cable. Drum shall allow 25 feet of travel on one (1) layer and 40 feet on two (2) layers.
 5. Winch shall utilize a flush mounted single keyed switch to both raise and lower backstop (eliminating the need for two keys). Key switch shall be located so that the backstop is in full view of authorized operator at all times. Optional wireless remote control or keypad control operation available.
 6. Winch shall have five (5) year warranty against material defects and workmanship. Winches with less than a five (5) year warranty shall not be considered equal.
- H. Electric Basketball Backstop Height Adjuster:
1. Model No. 1171 Electric Adjust-A-Goal by Performance Sports System, Noblesville, IN.
 2. Electric height adjuster shall be manufactured of steel using an electrically operated linear actuator to raise and lower backboard from 8' to 10' off of finished floor. Linear actuator shall be powered by a 115 volt single-phase motor and contain built in limit switches to ensure safe operation and positive stopping at 8' and 10' heights. Adjust-A-Goal features a direct goal attachment to transfers load of play directly through backboard to support structure. Adjust-A-Goal shall be operated with a flush mounted single keyed switch (eliminating the need to two keys) or portable power wand. Optional wireless remote control or keypad control operation shall be provided.

2.04 VOLLEYBALL EQUIPMENT

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Draper Manufacturing Inc.
 2. Performance Sports Systems. (Basis of Design)
 3. Porter Athletic Equipment Company.
 4. Progressive Sports Construction Group.
 5. Sports Imports.
- B. Materials:
1. Structural steel tubing: Steel, mechanical, round tubing conforming to ASTM A500.
 2. Extruded aluminum tubing: Schedule 80, ASTM B221, alloy 6063 Temper T5.
 3. Aluminum castings: ASTM B85.
- C. Floor Sleeves and Covers:
1. Floor sleeve: Round, mechanical steel tube sleeve welded to steel anchor plate for casting in concrete floor to receive volleyball standard; Floor Sleeve 6400 as manufactured by Performance Sports Systems.
 2. Size: 3-1/2 inches inside diameter by 8-1/2 inches tube and 4 inches square anchor plate.
 3. Cover plate: High Strength Polymer recessed mounting flange and 5 inch diameter chrome plated cover.
 - a. Cover installed with flat head wood screws.
 - b. Opening diameter: 4-1/8 inches.

- D. Floor Anchors:
1. Type: Floor anchor to be recessed in wood flooring on concrete substrate and used for securing portable game standards.
 2. Construction: Chrome plated, one-piece anchor with spring-loaded flush fairings and adjustment bolt and nut and designed for installation in concrete slab with fast setting grout.
 3. Size: 4-11/16 inches long with 3-1/2 inch diameter floor plate provided with wood screws for anchoring to wood floor.

2.05 SAFETY PADS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Basketball Products International.
 2. Douglas Sports.
 3. Draper Manufacturing Inc.
 4. Performance Sports Systems. (Basis of Design)
 5. Porter Athletic Equipment Company.
 6. Progressive Sports Construction Group.
 7. UCS Spirit.
- B. Safety Pad Surface-Burning Characteristics: ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
1. Flame-Spread Index: 25 or less.
 2. Smoke-Developed Index: 450 or less.
- C. Pad Coverings: Provide safety pad fabric covering that is fabricated from puncture- and tear-resistant, PVC-coated polyester or nylon-reinforced PVC fabric, not less than 14-oz./sq. yd (475-g/sq. m) and treated with fungicide for mildew resistance; with surface-burning characteristics indicated.
- D. Wall Safety Pads: Padded wall wainscot panels designed to be attached in a continuous row; each panel section consisting of fill laminated to backer board with visible surfaces fully covered by seamless fabric covering, free of sag and wrinkles and firmly attached to back of backer board.
1. Backer Board: Not less than 3/8-inch- (9.5-mm-) thick fire-retardant-treated plywood according to AWPA U1, UCFA Fire Retardant Interior.
 2. Fill: Multiple-impact-resistant foam not less than 2-inch- (50-mm-) thick bonded polyurethane, 6.0-lb/cu. ft. (96-lb/cu. ft. (96-kg/cu. m) density.
 3. Size: Each panel section, 24 inches (600 mm) wide by not less than 72 inches (1800 mm) long.
 4. Number of Modular Panel Sections: As indicated.
 5. Installation Method: Concealed mounting Z-clips.
 6. Fabric Covering Color(s): As selected by Architect from manufacturer's full range for one color.
- E. Corner Wall Safety Pads: Wall corner pad consisting of not less than 2-inch- thick, multiple-impact-resistant, closed-cell, polyethylene-foam filler, covered on both sides and all edges by fabric covering with backer board and manufacturer's standard anchorage to wall.
1. Length: Each pad matching length of wall safety pads.
 2. Fabric Covering Color(s): As selected by Architect from manufacturer's full range for one color.

- F. Column Safety Pads: Pads covering exposed flange of columns to height indicated, consisting of not less than 2-inch-thick, multiple-impact-resistant, closed-cell, polyethylene-foam filler, covered on both sides and all edges by fabric covering with self-adhesive, hook-and-loop attachment to exposed face of column.
 - 1. Length: Each pad matching length of wall safety pads.
 - 2. Fabric Covering Color(s): Match Architect's sample As selected by Architect from manufacturer's full range for one color.
- G. Cut-out Trim: Provide manufacturer's standard flanged cut-out trim kits for fitting pads around switches, receptacles, and other obstructions.
 - 1. Color: As selected by the Architect
- H. Basis of Design: Performance Sports Systems as follows:
 - 1. Column Padding: Model No. 4510.
 - 2. Wall Padding: Model No. 4199.

2.06 SCOREBOARD (ADDENDUM NO. 1)

- A. Manufacturers:
 - 1. Daktronics, Inc.
 - 2. Electro-Mech.
 - 3. Nevco.
 - 4. Performance Sports Systems; Model No. GS-220 (Basis of Design)
 - 5. Varsity Scoreboards.
- B. Overall Dimensions: 7 feet long x 3 feet 6 inches wide by 8 inches deep.
- C. Weight:
 - 1. Hanging Weight: 110 lbs.
 - 2. Shipping Weight: 200 lbs.
- D. Construction: 22 gauge galvaneal steel cainet with powder coat finish.
- E. Power Requirements:
 - 1. 20-amp, 120 volt, 60-hertz, grounded AC circuit conneted to an ON/OFF switch and/or circuit breaker.
- F. Controller: Standard LCD controller powered by 12V DC Adapter or an optional internal battery.
- G. Scoring Information Displayed:
 - 1. HOME and GUEST: 3-digit displays, 0-199.
 - 2. CLOCK: 4-digit displays, counts up or down, 99:59-00:00 or 00:00-99.59.
 - 3. PERIOD: 1-digit display, 1-9.
 - 4. BONUS: 2-2 inch dot indicator.
 - 5. POSSESSION: 2 - 2 inch arrow indicator.
- H. Scoreboard Controller: Manufacturer's standard.

2.07 SHOT CLOCKS (ADDENDUM NO. 1)

- A. Manufacturers:
 - 1. Daktronics, Inc.
 - 2. Electro-Mech.
 - 3. Nevco.
 - 4. Performance Sports Systems; Model No. GS-202 (Basis of Design)
 - 5. Varsity Scoreboards.
- B. Overall Dimensions: 26 inches high by 26 inches wide x 8 inches deep (each clock)
- C. Weight:
 - 1. Hanging Weight: 35 lbs. (each clock)
 - 2. Shipping Weight: 60 lbs. (each clock)
- D. Construction: 22 gauge galvaneal steel cainet with powder coat finish.

- E. Power Requirements: (Each Clock)
 - 1. 20-amp, 120 volt, 60-hertz, grounded AC circuit conneted to an ON/OFF switch and/or circuit breaker.
- F. Controller: Standard LCD controller powered by 12V DC Adapter or an optional internal battery.
- G. Information Displayed:
 - 1. 15 inch 2-digit countdown clock (59-0)
 - 2. 4 inch 4-digit countdown clock (99.59-00:00)
- H. Shot Clock Digits:
 - 1. 15 inches high, 100,000 hour-rated super bright red LED (light emitting diode) displays; low power consumption, increased visibility and no maintenance; no light bulbs to replace ever.
 - 2. 4 inches high, 100,000 hour-rated super right red LED (Light emitting diode) display; lower power consumption, increased visibility and no maintenance; no light bulbs to replace ever.
- I. Shot Clock Control: Manufacturer's standard.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for play court layout, alignment of mounting substrates, installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance of the Work.
 - 1. Verify critical dimensions.
 - 2. Examine supporting structure, [subgrades,]subfloors, and footings below finished floor.
 - 3. Examine wall assemblies, where reinforced to receive anchors and fasteners, to verify that locations of concealed reinforcements are clearly marked. Locate reinforcements and mark locations.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions and competition rules indicated for each type of gymnasium equipment. Complete equipment field assembly where required.
- B. Unless otherwise indicated, install gymnasium equipment after other finishing operations, including painting, are completed.
- C. Permanently Placed Gymnasium Equipment and Components: Install rigid, level, plumb, square, and true; anchored securely to supporting structure; positioned at locations and elevations indicated; in proper relation to adjacent construction; and aligned with court layout.
 - 1. Floor Insert Location: Coordinate location with application of game lines and markers.
 - 2. Floor Insert Elevation: Coordinate installed heights of floor insert with installation of finish flooring and floor-plate type.
 - 3. Operating Gymnasium Equipment: Verify clearances for movable components of gymnasium equipment throughout entire range of operation and for access to operating components.
- D. Floor Insert Setting: Position sleeve in oversized, recessed voids in concrete slabs. Clean voids of debris. Fill void around sleeves with grout, mixed and placed to comply with grout manufacturer's written instructions. Protect portion of sleeve above subfloor from splatter. Verify that sleeves are set plumb, aligned, and at correct height and spacing; hold in position during placement and finishing operations until grout is sufficiently cured. Set insert so top surface of completed unit is flush with finished flooring surface.

- E. Wall Corner Column Safety Pads: Mount with bottom edge at 4 inches (102 mm) above finished floor.
- F. Cut-out Trim: Limit cuts in face of padding from trim unit's corner-to-corner outside dimensions. Install with ends of cuts concealed behind trim flange.
- G. Anchoring to In-Place Construction: Use anchors and fasteners where necessary to secure built-in and permanently placed gymnasium equipment to structural support and to properly transfer load to in-place construction.
- H. Connections: Connect electric operators to building electrical system.
- I. Removable Gymnasium Equipment and Components: Assemble in place to verify that equipment and components are complete and in proper working order. Instruct Owner's designated personnel in properly handling, assembling, adjusting, disassembling, transporting, storing, and maintaining units. Disassemble removable gymnasium equipment after assembled configuration is approved by [Architect] [Owner], and store units in location indicated on Drawings.

3.03 ADJUSTING

- A. Adjust movable components of gymnasium equipment to operate safely, smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and moving parts.

3.04 CLEANING

- A. After completing gymnasium equipment installation, inspect components. Remove spots, dirt, and debris and touch up damaged shop-applied finishes according to manufacturer's written instructions.
- B. Replace gymnasium equipment and finishes that cannot be cleaned and repaired, in a manner approved by Architect, before time of Substantial Completion.

3.05 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain gymnasium equipment.

END OF SECTION

STRUCTURAL NOTES:

GENERAL:

- 1. THESE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE 2012 NC STATE BUILDING CODE.
2. DESIGN GRAVITY LOADS:

CLASSROOMS (AREA C) ROOF:

Table with 2 columns: Item description and Value. Includes roof system, suspended ceiling, sprinklers, mechanical/electrical, misc. framing.

MEDIA CENTER/ART (AREA B) ROOF:

Table with 2 columns: Item description and Value. Includes dead loads, roof system, suspended ceiling, sprinklers, mechanical/electrical, misc. framing.

ADMINISTRATIVE (AREA A) ROOF:

Table with 2 columns: Item description and Value. Includes dead loads, roof system, suspended ceiling, sprinklers, mechanical/electrical, misc. framing.

GYM (AREA B) ROOF:

Table with 2 columns: Item description and Value. Includes dead loads, roof system, suspended ceiling, sprinklers, mechanical/electrical, misc. framing.

COMMONS CORRIDOR (AREA B) ROOF:

Table with 2 columns: Item description and Value. Includes dead loads, roof system, suspended ceiling, sprinklers, mechanical/electrical, misc. framing.

STAGE FLOOR:

Table with 2 columns: Item description and Value. Includes dead loads, 3/4" T&G wood flooring, 3/4" plywood subdecking, 12" metal stud joists.

GROUND FLOOR:

Table with 2 columns: Item description and Value. Includes dead loads, slab-on-grade.

LIVE LOADS:

Table with 2 columns: Location and Live Load Value. Includes roof, lobbies, offices, restrooms, corridors, upper corridors, classrooms/labs, stairs, stage, light storage, mechanical/electrical/storage.

WIND VELOCITY (ASCE/SEI 7-05):

- A. NOMINAL DESIGN WIND SPEED (3-SEC GUST): 131 MPH
B. IMPORTANCE CATEGORY: III
C. IMPORTANCE FACTOR: Iw = 1.15
D. EXPOSURE CATEGORY: C
E. ENCLASURE CLASSIFICATION: ENCLOSED
F. DIRECTIONALITY FACTOR (Kd): 0.85
G. DESIGN BASE SHEAR ADMIN/KITCHEN/DINING (AREA A): Vx = 91; Vy = 99 KIPS
H. DESIGN BASE SHEAR GYM (AREA B): Vx = 24; Vy = 18 KIPS
I. DESIGN BASE SHEAR COMMONS CORRIDOR (AREA B): Vx = 40; Vy = 86 KIPS
J. DESIGN BASE SHEAR MEDIA CENTER/ART (AREA B): Vx = 28; Vy = 18 KIPS
K. DESIGN BASE SHEAR CLASSROOMS (AREA C): Vx = 248; Vy = 266 KIPS

SNOW DESIGN (ASCE/SEI 7-05):

- A. GROUND SNOW LOAD (Pg): 10.0 PSF
B. IMPORTANCE FACTOR: Is = 1.1
C. EXPOSURE FACTOR: Ce = 0.9
D. THERMAL FACTOR: Ct = 1.1
E. BALANCED SNOW LOAD: 6.6 PSF
F. FLAT ROOF SNOW LOAD: Pf (0 <= 150): 7.8 PSF; Pf (0 <= 150): 11.0 PSF
G. DESIGN UNIFORM SNOW LOAD: Pu (0 <= 150): 6.8 PSF; Pu (0 <= 150): 11.0 PSF

SEISMIC DESIGN (ASCE/SEI 7-05):

- A. OCCUPANCY CATEGORY: III
B. SITE CLASSIFICATION: D
C. SEISMIC IMPORTANCE FACTOR: Ie = 1.25
D. SEISMIC DESIGN CATEGORY: C
E. MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss=0.23g; S1=10.4%g
F. SPECTRAL RESPONSE COEFFICIENTS: Sds=0.33g; Sd1=16.5%g
G. BASIC STRUCTURAL SYSTEM: ADMIN/KITCHEN/DINING (AREA A), COMMONS CORRIDOR (AREA B), MEDIA CENTER/ARTS (AREA B), CLASSROOMS (AREA C), STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
H. SEISMIC RESISTING SYSTEM: ADMIN/KITCHEN/DINING (AREA A), COMMONS CORRIDOR (AREA B), MEDIA CENTER/ARTS (AREA B), CLASSROOMS (AREA C), STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
I. EQUIVALENT LATERAL FORCE PROCEDURE: NONSTRUCTURAL COMPONENT ANCHORAGE - ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE 7 CHAPTER 13. SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS: EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.
K. DESIGN BASE SHEAR ADMIN/KITCHEN/DINING (AREA A): Vx = 91; Vy = 99 KIPS
L. DESIGN BASE SHEAR GYM (AREA B): Vx = 24; Vy = 18 KIPS
M. DESIGN BASE SHEAR COMMONS CORRIDOR (AREA B): Vx = 40; Vy = 86 KIPS
N. DESIGN BASE SHEAR MEDIA CENTER/ART (AREA B): Vx = 28; Vy = 18 KIPS
O. DESIGN BASE SHEAR CLASSROOMS (AREA C): Vx = 248; Vy = 312 KIPS

GENERAL (CONT.):

- 6. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
7. CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
8. ARCHITECTURAL FOR VERIFICATION OF ALL WALL LOCATIONS AND DIMENSIONS.
9. STRUCTURAL FRAME AND MASONRY WALLS (LOAD BEARING AND NON-LOAD BEARING) SHALL BE BRACED BY CONTRACTOR AGAINST WIND, CONSTRUCTION LOADS, AND OTHER TEMP. FORCES UNTIL ERECTION IS COMPLETE.
10. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
11. NO CHANGES IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
12. OPENINGS 14" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
13. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE AT THE TIME THE LOADS ARE IMPOSED.
14. WALLS (LOAD BEARING AND NON-LOAD BEARING) ARE TO BE BRACED UNTIL ERECTION IS COMPLETE.
15. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
16. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON, OR ISSUE DIRECTION AS TO SAFETY, PRECAUTIONS AND PROGRAMS.
18. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, AND THE RESPONSIBILITY OF THE CONTRACTOR.
19. FUTURE LOADS: UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOOR, ROOFS, OR OTHER LOADS. FOUNDATION & FRAMING AT BUILDING END SHOWN FOR FUTURE BUILDING EXPANSION.
20. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
21. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
22. WHEN MODIFICATIONS ARE PROPOSED TO STRUCTURAL ELEMENTS UNDER THE DESIGN AND CERTIFICATION OF A SPECIALTY ENGINEER, WRITTEN AUTHORIZATION BY THE SPECIALTY ENGINEER MUST BE OBTAINED AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW, PRIOR TO PERFORMING THE PROPOSED MODIFICATION.

CONCRETE:

- 1. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: FOUNDATIONS: 4,000 PSI NORMAL WT. CONCRETE SLAB-ON-GRADE AND ELEVATED SLABS: 3,000 PSI NORMAL WT.
2. REINFORCING STEEL: ASTM A618, GRADE 60.
3. WELDED WIRE REINFORCEMENT: ASTM A1064 (FLAT SHEETS).
4. MINIMUM CURE CONCRETE: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES (U.N.O.) CONCRETE EXPOSED TO EARTH OR WEATHER: 2 INCHES (U.N.O.) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: 3/4 INCH (U.N.O.) BEAMS, COLUMNS: 1-1/2 INCHES
5. DOWELS AND CONTINUOUS REINFORCING SHALL HAVE A MINIMUM LAP OF 57 BAR DIAMETERS, BUT SHALL NOT BE LESS THAN 24 INCHES.
6. PROVIDE AIR ENTRAINMENT OF 4 TO 8 PERCENT.
7. CONCRETE FINISH: TROWEL WALLS - WOOD FLOOR; SEE SPECIFICATIONS.
8. CONCRETE SHALL BE WET CURED FOR 7 DAYS. NO CURING COMPOUND IS ALLOWED.
9. EXPANSION JOINT FILLER BOND BREAKER: SEE SPECIFICATIONS.
10. SHEET VAPOR BARRIER: SEE SPECIFICATIONS.
11. WATER SHOULD NOT BE ADDED TO CONCRETE AT THE JOB SITE BEYOND THE MIX DESIGN AMOUNT. ADDITIONAL WATER SERIOUSLY REDUCES CONCRETE STRENGTH AND INCREASES SHRINKAGE. REQUEST A "HIGH RANGE" WATER REDUCER (SUPERPLASTICIZER) FOR MORE WORKABLE CONCRETE. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF ACI 308 "HOT WEATHER CONCRETING" AND ACI 309 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING".
12. UNLESS OTHERWISE NOTED, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES-ACI 315.
13. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES UNLESS OTHERWISE NOTED.
14. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064. LATEST REVISION, FURNISH IN FLAT SHEETS OR MATS. ROLLS WILL NOT BE ALLOWED.
15. WELDED WIRE REINFORCEMENT SHALL BE FULLY MESHES AND BE SECURELY WIRED AT EACH END AND END.
16. REINFORCING BARS AND WELDED WIRE REINFORCEMENT SHALL BE SUPPORTED WITH STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN THE CONCRETE PROTECTION SPECIFIED.
17. UNLESS OTHERWISE NOTED, CHAMFER ALL EXPOSED CONCRETE CORNERS WITH A 3/4" x 45 DEGREE CHAMFER.
18. REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR PENETRATIONS IN SLABS REQUIRING SLEEVES, EMBEDMENTS, ETC. NOT SHOWN.
19. CONTRACTOR SHALL VERIFY ALL TRADES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS AND EQUIPMENT PADS WITH MECHANICAL AND ELECTRICAL EQUIPMENT DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT THE BUILDING.
20. UNLESS NOTED OTHERWISE, SLABS SHALL BE FINISHED TO THE TOLERANCES IN ACCORDANCE WITH ASTM E 1155 AS SHOWN IN THE DRAWINGS.
21. ALL EMBEDDED STEEL SHALL CONFORM TO ASTM A36.
22. ADHESIVE ANCHORING SYSTEM: MASONRY (HILTI HIT-70); ADHESIVE ANCHORS INTO MASONRY SHALL BE THE HILTI HIT-HY-70 INJECTION SYSTEM OR APPROVED EQUIVALENT USING GALVANIZED HILTI HAS RODS OR CARBON STEEL GALVANIZED THREADED RODS (ASTM F1554, 55 KSI) WITH SCREENS. CONCRETE & SOLID GROUTED MASONRY: ADHESIVE ANCHORS INTO CONCRETE SHALL BE THE HILTI HIT-HY-200 OR HILTI HIT-RE500 V3 INJECTABLE ADHESIVE ANCHORING SYSTEM OR APPROVED EQUIVALENT USING GALVANIZED HILTI HAS RODS OR CARBON STEEL GALVANIZED THREADED RODS (ASTM F1554, 55 KSI).
23. ALL ADHESIVE ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
24. PROVIDE 2 - #4 BARS x 3'-0" LONG DIAGONAL IN THE TOP FACE OF SLAB ON GRADE AT ALL RE-ENTRANT CORNERS. PLACE 1" CLEAR OF CORNER.
25. EXTEND REINFORCING BARS PAST RE-ENTRANT CORNERS A MINIMUM OF TENSION DEVELOPMENT LENGTH (Ld).
26. PROVIDE 2 - #4 BARS IN TOP OF WALL FOOTINGS SUPPORTING MASONRY WALLS WHERE OPENINGS OF DOORS OCCUR. EXTEND BARS 2'-0" BEYOND EDGE OF OPENINGS.
27. SAW CUT ALL SLABS ON GRADE AS SOON AS POSSIBLE AFTER FINISHING OPERATIONS HAVE BEEN COMPLETED WITHOUT DISLORGING AGGREGATES. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR SAW CUT JOINTS.
28. LOCALLY DEPRESS BOTTOM OF FOOTINGS AS REQUIRED AT ANCHOR BOLTS TO PROVIDE 3 INCH MINIMUM COVER TO BOTTOM OF ANCHOR BOLTS.
29. REFER TO ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.

FOUNDATION:

- 1. FOUNDATION, SLAB-ON-GRADE, AND SEISMIC DESIGN BASED ON RECOMMENDATIONS IN REPORT OF GEOTECHNICAL EXPLORATION BY ECS SOUTHEAST LLP (ECS PROJ. NO. 22-25758), DATED DEC 20, 2017.
A. ALLOWABLE SOIL BEARING PRESSURE: 2,000 PSF SOIL MODULUS (MODULUS): 200 PCF
C. SITE CLASS D
2. CONTRACTOR SHALL UTILIZE A SPECIALTY CONTRACTOR FOR THE DESIGN & INSTALLATION OF A GEO-COMPOSITE DRAIN GRID SYSTEM, WHICH HAS DRAINS TO WOULD PENETRATE THE LIQUEFIABLE SOILS (APP. 35' BELOW EXISTING GRADE) & EXTEND HORIZONTALLY A MINIMUM OF 2' OUTSIDE THE BUILDING FOOTPRINT.
SUBMIT DESIGN & INSTALLATION DRAWINGS TO A/E & GEOTECHNICAL ENGINEER FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.
FOLLOWING THE INSTALLATION OF GEO-COMPOSITE DRAINS, GEOTECHNICAL REPORT ESTIMATES THE EARTHQUAKE RELATED SETTLEMENT POTENTIAL DUE TO LIQUIFICATION WILL BE IN THE ORDER OF 3/4" TO 1 INCH.
3. FOLLOWING THE INSTALLATION OF GEO-COMPOSITE DRAINS, REMOVE TOPSOIL, ORGANICS, SOFT CLAY, AND OTHER UNSUITABLE MATERIALS UNDER ALL FLOOR SLABS, FOOTINGS AND 10'-0" BEYOND BUILDING WALLS. BACKFILL AS REQUIRED WITH CLEAN SELECTED FILL, COMPACTED IN 8-INCH TO 10-INCH LIFTS TO A MINIMUM OF 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ALL LAYERS UP TO THE UPPER ONE FOOT. FILL TO BE PLACED WITHIN 12 INCHES OF THE DESIGN SUBGRADE ELEVATION IS TO BE COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT. COMPACT UPPER 8-INCH TO 12-INCH OF EXISTING SUBGRADE TO 95 PERCENT.
4. AFTER STRIPPING, DENSITY EXPOSED SANDS BY PROOFROLLING WITH A FULLY-LOADED TANDEM-AXLED "DUMP TRUCK" OR SIMILAR EQUIPMENT, OR UNSUITABLE SURFACE CONDITIONS, WHICH PUMPS OR RUTS EXCESSIVELY, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THESE UNSUITABLE SURFACES SHALL BE UNDERCUT & REPLACED WITH GRANULAR BACKFILL, SUCH AS #57 STONE. CLEAN SELECT SAND FILL SHALL MEET UNIFIED SOIL CLASSIFICATION OF SP, SP-SM OR SP-SC AND SHALL HAVE A MINIMUM STANDARD PROCTOR DRY DENSITY OF 110 PCF.
5. CONTRACTOR SHALL NOTIFY ARCHITECT FOR GEOTECHNICAL INSPECTION OF SUBGRADE PRIOR TO POURING ANY CONCRETE.
BEARING CAPACITY SHALL BE VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. WRITTEN REPORTS OF FINDINGS SHALL BE SUBMITTED TO THE ARCHITECT. CONTRACTOR SHALL PROVIDE NECESSARY PRIOR TO EXCAVATING. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS IN MAINTAINING WATER LEVEL BELOW EXCAVATION.
6. CONTRACTOR SHALL PROTECT ALL FOUNDATION EXCAVATIONS FROM DETERIORATION DUE TO EXPOSURE TO MOISTURE UNTIL FOUNDATIONS AND BACK FILLING HAVE BEEN COMPLETED.

MASONRY:

- 1. COMPRESSIVE STRENGTH OF MASONRY UNITS: CONCRETE UNITS - NORMAL WEIGHT, ASTM C90, fm = 1,900 PSI (MINIMUM); CLAY UNITS - fm = 2,500 PSI
2. STRENGTH OF MORTAR AT 28 DAYS TO BE 1,900 PSI MINIMUM, TYPE "S"
3. THE WYTHES WITH MINIMUM HORIZONTAL REINFORCING CONSISTING OF TWO (2) WIRES OF W1.7 16" O.C. MAX. TERMINATE AT VERTICAL CONTROL JOINTS.
4. MASONRY GROUT: ASTM C476 GROUT, fm = 2,000 psi. COARSE TYPE; SLUMP: 8" TO 11". ANY REFERENCE TO BOND BEAMS / LINTELS / CORES FILLED WITH "CONCRETE", SHALL MEAN MASONRY GROUT.
5. ALL BLOCK LINTELS SHALL HAVE A MINIMUM BEARING OF 8 INCHES ON SOLID MASONRY OR GROUTED CONCRETE BLOCK AT EACH END.
6. PROVIDE FULL HEIGHT VERTICAL BARS OF SIZE SHOWN ON PLAN, EXTENDING FROM THE FOUNDATION (AND FROM LINTELS) TO THE TOP OF THE WALL WITH A STANDARD 90° HOOK INTO THE UPPER BOND BEAM & PROVIDE SAME SIZE VERTICAL BARS AT ALL CORNERS & CONTROL JOINTS.
A. TWO (2) ADL. BARS WITHIN 4" OF ALL WALL CORNERS & CONTROL JOINTS.
B. TWO (2) ADL. BARS WITHIN 16" MAX. OF EACH SIDE OF ALL WALL OPENINGS.
C. TWO (2) ADL. BARS WITHIN 8" MAX. OF ALL WALL ENDS.
D. BARS AT SPACING OR QUANTITY AS SHOWN ON PLANS.
7. EXTEND LINTELS BARS A MINIMUM OF 24" PAST CLEAR MASONRY OPENINGS.
8. MASONRY CELLS CONTAINING BARS SHALL BE GROUTED AND OTHER CELLS SHALL BE FULLY GROUTED AS NOTED.
9. MASONRY SHEAR PLATES SHALL BE FIELD ADJUSTED TO PREVENT ADHESIVE ANCHOR LOCATIONS FROM BEING WITHIN 4" OF A VERTICAL MORTAR JOINT AND PLACE NO MORE THAN ONE ANCHOR PER BLOCK CELL/CORE.
10. UNLESS NOTED OTHERWISE ON DRAWINGS PROVIDE MASONRY LINTELS PER LINTEL SCHEDULE FOR ALL MASONRY OPENINGS AND AS SHOWN ON DRAWINGS.
11. EXTEND CONTINUOUS BOND BEAM REINFORCING ACROSS VERTICAL CONTROL JOINTS.
12. CMU CONSTRUCTION SHALL BE COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATION SECTION 42000.
13. PIPE SLEEVES, MISCELLANEOUS OPENINGS, ETC., NOT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE SIZED AND LOCATED AS NOTED ON DRAWINGS BY OTHER DISCIPLINES. COORDINATE NET REINFORCING FOR ALL OPENINGS PRIOR TO ERECTION AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, AND THE RESPONSIBILITY OF THE CONTRACTOR.
14. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.
15. ALL MASONRY MATERIALS, CONSTRUCTION, INSPECTION, AND TESTING SHALL CONFORM TO THE NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05/ASCE 5-05/ASCE 402-05), AND SPECIFICATION FOR MASONRY STRUCTURES (ACI 530-10/ASCE 5-10/TMS 602-05).
16. LAP SPLICES FOR BARS SHALL BE 50 BAR DIAMETERS MINIMUM.
17. FULLY GROUT ALL CELLS CONTAINING VERTICAL REINFORCING OTHER CELLS SHALL BE GROUTED AS NOTED. PROVIDE CLEANOUTS AT BOTTOM OF WALL TO ENSURE CELLS ARE FULLY GROUTED FOR CELLS WITH REINFORCED BARS.
18. PROVIDE VERTICAL BAR POSITIONERS FOR REINFORCEMENT AS NOTED IN THE PROJECT SPECIFICATIONS.
19. PLACE GROUT IN LIFTS NOT EXCEEDING 5 FEET.
20. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" OC VERTICALLY (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).
21. BOND BEAM REINFORCEMENT AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AT CORNERS. PROVIDE CORNER REINFORCEMENT TO LAP WITH TYPICAL REINFORCEMENT.

STRUCTURAL STEEL:

- 1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE ALLOWABLE STRESS PROVISIONS OF THE AISC 360-05 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS".
2. ALL STRUCTURAL STEEL SHALL BE DESIGNED TO THE ALLOWABLE STRESS PROVISIONS OF THE AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
3. STRUCTURAL STEEL: BEAMS-COLUMNS - A572 OR A588 GR. 50; HSS SECTIONS - A500, GR. B (46 ksi MIN.); PIPE - A53, TYPE E, S, GR. B (35 ksi MIN.); PLATES, CHANNELS, & ANGLES - A36.
4. BOLTS: A325-N 3/4" DIAMETER H.S. BOLTS, UN.
5. ANCHOR RODS: A1554, GRADE 36 OR 55, WELDABLE STRAIGHT W/ A563 HEAVY HEX NUTS, F436 WASHERS, H.D. GALV.
6. WELDING ELECTRODES: E-70XX SERIES.
7. STRUCTURAL STEEL CLEANING: STEEL STRUCTURES PAINTING COUNCIL, SSPC - LATEST EDITION (POWER TREATMENT).
8. OIL OR GREASE REMOVAL: SSPC-SP-1 LATEST EDITION
9. NO SHOP PAINTING ALLOWED WITHIN 3 INCHES OF FIELD WELDS.
10. ALL ERECTION WORK FOR STRUCTURAL STEEL SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH LATEST OSHA REQUIREMENTS.
11. CONNECTIONS:
A. DESIGN CONNECTIONS FOR REACTIONS AS SHOWN ON FRAMING PLANS, (MIN. OF 6 KIPS)
B. WHERE REACTIONS ARE NOT SHOWN, CONNECTION SHALL SUPPORT HALF OF TOTAL UNIFORM LOAD CAPACITY PLUS EFFECT OF ANY CONCENTRATED LOADS.
C. ALL CONNECTIONS SHALL BE WELDED UNLESS WELDED CONNECTIONS ARE SPECIFIED ON THE DRAWING & SHALL UTILIZE DOUBLE-ANGLE, SEATED OR SINGLE SHEAR PLATE SHEAR CONNECTIONS.
D. IN NO CASE SHALL THE LENGTH OF THE SHEAR CONNECTION BE LESS THAN ONE-HALF OF THE "T" DISTANCE OF THE BEAM WEB.
E. ALL CONNECTIONS SHALL BE BOLTED OR WELDED.
F. ALL CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE NOTED.
G. WHERE NOTED ON DRAWINGS, FABRICATOR'S ENGINEER SHALL DESIGN MOMENT CONNECTIONS FOR THE VALUES PROVIDED. FABRICATOR SHALL SUBMIT THE PROPOSED CONNECTION TYPE FOR EACH CONDITION TO THE ENGINEER FOR APPROVAL OF SAID TYPE PRIOR TO THE START OF DETAILING AND DESIGN OF THESE CONNECTIONS. ENGINEER RESERVES THE RIGHT TO REQUEST AN ALTERNATIVE CONNECTION TYPE.
H. USE SNUG-GUARD FOR STRUCTURAL STEEL SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH TWIST-OFF TYPE TENSION-CONTROL BOLT TENSIONING.
12. PAINT ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL WHICH IS NOT GALVANIZED. CLEAN & PRIME WITH A PRIMER AS SPECIFIED IN SPECIFICATIONS. TOUCH UP AS REQ'D IN FIELD AFTER ERECTION.
13. STEEL SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING SHALL NOT BE PRIME PAINTED.
14. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, LATEST EDITION.
15. CONTRACTOR SHALL HIRE A FABRICATOR WITH A QUALIFIED PROFESSIONAL ENGINEER DULY REGISTERED IN THE STATE OF NORTH CAROLINA TO PREPARE SHOP DRAWINGS, CALCULATIONS, AND OTHER STRUCTURAL DATA FOR STRUCTURAL STEEL CONNECTIONS. FABRICATOR'S ENGINEER SHALL AFFIX HIS SEAL TO THE DRAWINGS AND CALCULATIONS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
16. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS. TYPICAL CONNECTION DETAILS ARE INDICATED ON THE DRAWINGS FOR DESIGN INTENT ONLY.
17. GUSSET PLATES SHALL BE 3/8" MINIMUM.
18. UNLESS SHOWN OTHERWISE IN THE DRAWINGS, ALL BRACING CONNECTIONS SHALL BE DESIGNED & DETAILED SO THAT ALL FORCE COMPONENTS CAN BE DELIVERED DIRECTLY TO THE CENTERLINE OF INTERSECTING MEMBERS. WHERE THIS IS NOT DONE, CONNECTIONS SHALL BE DESIGNED FOR RESULTING ECCENTRICITIES.
(-) INDICATES TENSION IN MEMBER; (+) INDICATES COMPRESSION IN MEMBER; FORCES SHOWN ON THE DESIGN DRAWINGS SHALL NOT BE REDUCED.
19. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ACCIDENTAL FIRE DURING ALL FIELD WELDING. PRECAUTIONS MAY INCLUDE, BUT NOT BE LIMITED TO, POSTING A FIRE WATCH WITH A FIRE EXTINGUISHER, THE USE OF PROTECTIVE WELDING BLANKETS, OR ANY OTHER METHOD OR COMBINATION OF METHODS USED TO PREVENT FIRE.
20. UNLESS OTHERWISE NOTED, ALL COLUMN ANCHOR BOLT HOLES SHALL BE OVERSIZED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE "AISC MANUAL FOR DETAILING FOR STEEL CONSTRUCTION".
21. OPEN ENDS OF ALL HSS AND PIPE SHIMS SHALL BE CLOSED WITH A 3/16" (MIN) CLOSURE PLATE SEAL WELDED ALL AROUND (UNO).
22. UNLESS NOTED OTHERWISE, PROVIDE 1/4" BENT PLATE FOURPOST AT ALL FLOOR OPENINGS AND EDGES.
23. UNLESS NOTED OTHERWISE, ALL HSS BEAM SECTIONS SHALL BE ORIENTED LONG SIDE VERTICAL (LSV).

STEEL JOISTS:

- 1. STEEL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS, LATEST EDITION.
2. STEEL JOISTS DESIGNATED "SP" ON PLANS ARE SPECIAL JOISTS, WHICH SHALL BE DESIGNED FOR THE SPECIAL CRITERIA INDICATED. SEALED CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWING SUBMITTAL.
3. BOTTOM CHORD OF JOISTS SHALL BE ANGLES.
4. JOIST BRIDGING AND SEALING SHALL CONFORM TO SJI SPECIFICATIONS, INCLUDING BRIDGING REQUIRED FOR JOISTS SUBJECTED TO UPLIFT LOADS. PROVIDE CROSS-BRIDGING AT ENDS OF BRIDGING LINES AND CHANGES IN JOIST DEPTHS. ANY BRIDGING AT JOIST ENDS SHALL BE ANCHORED TO WALLS OR BEAMS.
5. WELD JOISTS TO STEEL SUPPORTS WITH 2 INCH MIN. OF 1/8 INCH FILLET WELD EACH SIDE OF JOIST. ALL WELDING TO BE MADE BY CERTIFIED WELDERS.
6. JOISTS SHALL BE BUILT TO FIT AS INDICATED ON THE FRAMING PLANS. MAXIMUM DEFLECTION DUE TO LIVE LOAD SHALL BE LIMITED TO L/360. JOIST SUPPLIER SHALL SUBMIT DESIGN CALCULATIONS TO ENGINEER OF RECORD FOR REVIEW.
7. SECURE METAL DECKING TO JOISTS PER SPECIFICATIONS.
8. ROOF JOIST BRIDGING IS INTERRUPTED FOR ANY REASON, PROVIDE X BRIDGING ON EITHER SIDE IN ADDITION TO THE STANDARD BRIDGING.
9. WHERE JOIST BRIDGING IS DESIGNED FOR A NET UPLIFT AS SHOWN.
10. ALL JOISTS SHALL BE DESIGNED TO ACCOMMODATE A MINIMUM CONCENTRATED LOAD OF 200 LBS. HUNG FROM THE JOIST TOP OR BOTTOM CHORD AT ANY POINT ALONG THE SPAN.
11. STEEL JOISTS SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING SHALL NOT BE PRIME PAINTED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.

COLD-FORMED METAL FRAMING:

- 1. STUD DESIGNATION: 800 X 200 - 68 MILS (50 ksi)
A. STEEL GRADE: STEEL THICKNESS - MILS. FLANGE WIDTH (INCHES) MEMBER TYPE: S - STUD, T - TRACK, U - CHANNEL, F - FURRING CHANNEL MEMBER DEPTH x 100 (INCHES)
2. COLD-FORMED METAL FRAMING MEMBERS SHALL BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A1003, STRUCTURAL GRADE, TYPE H STEEL WITH A MINIMUM WELD STRENGTH OF 33 KSI FOR 43 AND THINNER METAL MEMBERS AND 50 KSI FOR ALL THICKER METAL MEMBERS. STUDS SHALL BE FINISHED WITH G90 COATING.
3. PROVIDE BRIDGING LINES AT 4'-0" ON CENTER AT ALL WALLS.
4. DEFLECTION CLIPS SHALL BE ASTM A663, GRADE 50 WITH G90 COATING AND SHALL BE PROVIDED WITH STEP BUSHINGS AND SCREWS WITH EACH CLIP.
5. DESIGN COLD-FORMED METAL FRAMING IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI): A. AISI S100-13 "COLD-FORMED STEEL DESIGN MANUAL", 2013 EDITION B. AISI D12-13 "BRICK VENEER COLD-FORMED STEEL FRAMING DESIGN GUIDE, 2013 EDITION C. AISI S212-07 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - HEADER DESIGN", 2007 EDITION (REAFFIRMED 2012).
6. UTILIZE STIFF CLIPS AT BUILT-UP JAMB STUD LOCATIONS.
7. TOUCH-UP ALL SCRATCHES, MARKS, ETC. ON SURFACE OF STUDS WITH ZINC RICH PAINT.
8. ALL COLD FORMED HEADERS SHALL BE CONSTRUCTED OF UNPUNCHED SECTIONS.
9. PERFORATIONS WILL ONLY BE ALLOWED IN THE WEB OF VERTICAL WALL STUDS AT A MIN. END DISTANCE OF 2'-0" AND A MIN. SPACING OF 4'-0" ON CENTER IN ACCORDANCE WITH AISI "COLD-FORMED STEEL DESIGN MANUAL, LATEST EDITION.
10. SPLICING OF VERTICAL WALL STUDS IS NOT ALLOWED.
11. SCREW PENETRATIONS THRU JOINED MATERIAL SHALL HAVE AT LEAST THREE EXPOSED THREADS.
12. DESIGN SECONDARY FRAMING OPENINGS IN WALLS FOR WIND LOADS RESULTING FROM WINDOWS AND DOORS AS SHOWN.
13. STUD SIZES & CONNECTIONS SHOWN FOR BIDDING PURPOSES ONLY. STUD VENDOR MAY EJECT TO COMPLETELY RE-DESIGN COMPONENTS SHOWN IN ADDITION TO PROVIDING DESIGN FOR SECONDARY FRAMING @ WINDOWS/DOOR OPENINGS.

STRUCTURAL ABBREVIATIONS:

Table mapping symbols to abbreviations and full names. Includes symbols like @, >, <, =, +/- and abbreviations like AT, LBS, LF, LLH, LNTL, LP, LWLT, MAS, MAX, MB, MECH, MFR, MIN, MISC, mm, MTL, MWFRS, N/A, NO, NS, NTS, OC, OD, OF, O.P., OPNG, OPP, OSL, PAF, PC, PCF, P.FJ, PL, PLF, PROJ, PSF, PSI, QTY, R, RAD, RC, RDAA, RECT, REF, REIN, REINF, SC, SCHED, SECTION, SHM, SHIT, SOG, SPAC, SPECIFICATION, ST, STD, STR, STRG, STRIF, STRIP, STL, STRUCT, SYM, T, T&B, TEMP, TF, THK, T.O., TOC, TOP, TOS, TOW, TRANS, TYP, UNO, VERT, W, W/O, WP, W/P, WT, WWF, X, Y, Z, etc.

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REVISIONS table with columns: No., Description, Date.

KEY PLAN diagram showing areas A, B, and C.

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018

SHEET NAME: GENERAL NOTES

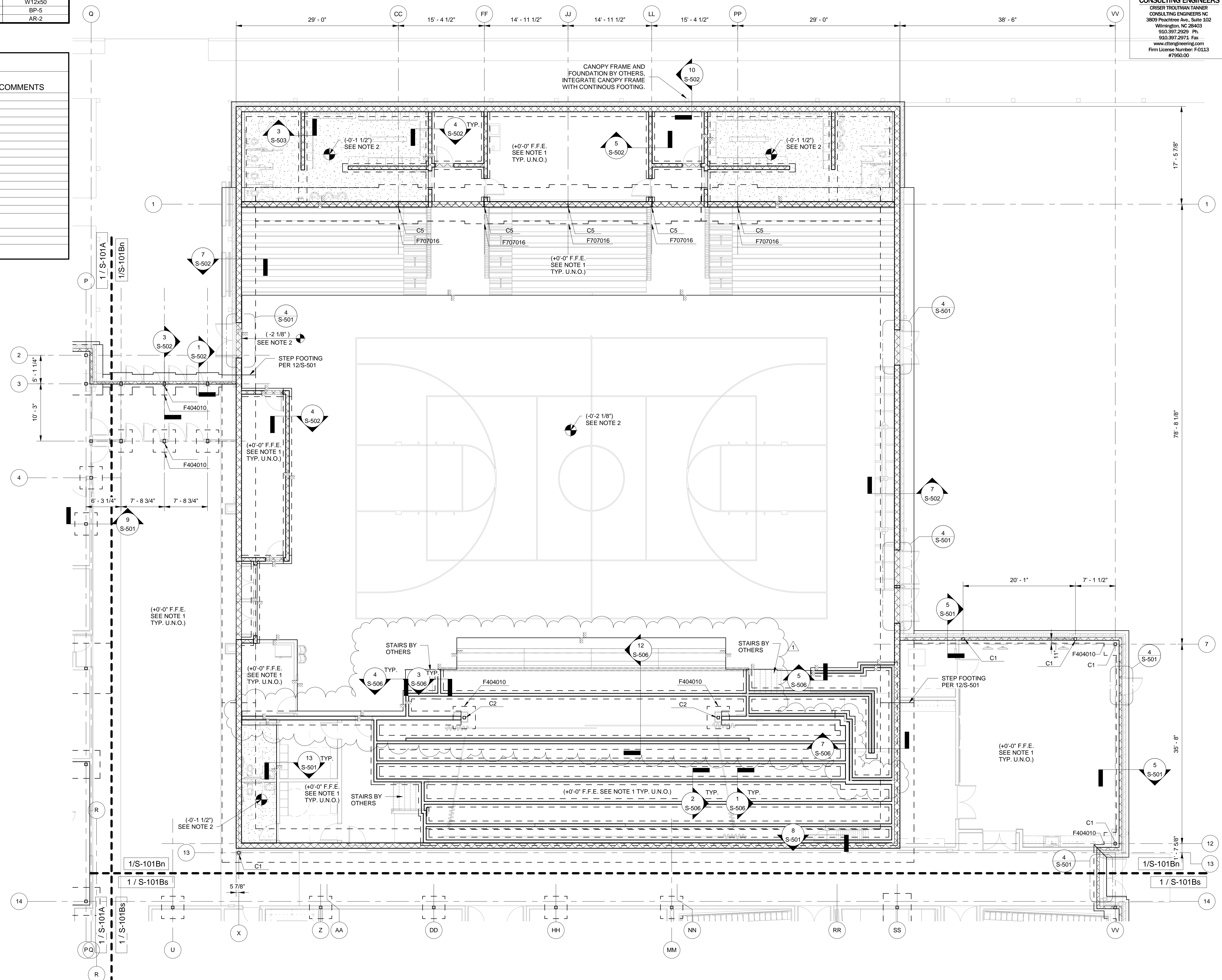
SHEET NUMBER: S-001



COLUMN SCHEDULE					
MARK	C1	C2	C3	C4	C5
COLUMN SIZE	HSS6x6x1/4	HSS6x6x3/8	HSS8x8x5/8	HSS10x10x1/2	W12x50
BASE PLATE MARK	BP-1	BP-2	BP-3	BP-4	BP-5
ANCHOR BOLT MARK	AR-1 (U.N.O.)	AR-2	AR-2	AR-2	AR-2

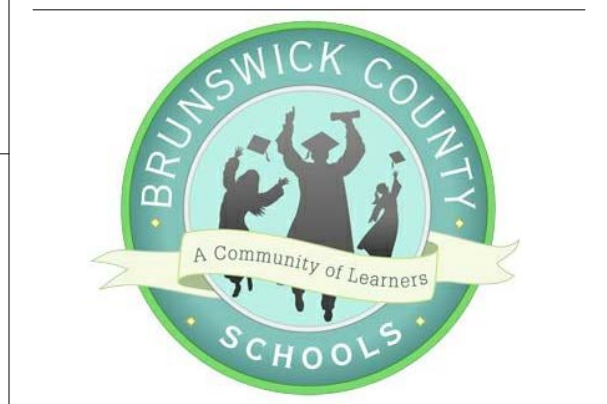
NOTE: SEE S-502 FOR BASE PLATE AND ANCHOR BOLT DETAILS.

STRUCTURAL FOUNDATION SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINF.	COMMENTS
F404010	4'-0"	4'-0"	1'-0"	(9) #5 EACH WAY	
F505010	5'-0"	5'-0"	1'-0"	(5) #5 E.W. BOTT.	
F606010	6'-0"	6'-0"	1'-0"	(6) #5 E.W. BOTT.	
F609016	6'-0"	6'-0"	1'-6"	(6) #8 EACH WAY	
F707016	7'-0"	7'-0"	1'-6"	(6) #5 E.W. T&B	
F808016	8'-0"	8'-0"	1'-6"	(16) #4 EACH WAY	
F909016	9'-0"	6'-0"	1'-6"	(5) #7 T&B LONG., (9) #6 BOTT. TRANS.	
F909016	9'-0"	9'-0"	1'-6"	(7) #7 E.W. T&B	
F2165016	21'-6"	5'-0"	1'-6"	(4) #7 T&B LONG., (23) #6 T&B TRANS.	
F2866016	28'-6"	6'-0"	1'-6"	(5) #9 T&B LONG., (44) #6 T&B TRANS.	
F2866016	28'-6"	6'-0"	1'-6"	(5) #9 T&B LONG., (44) #6 T&B TRANS.	
F3505020	35'-0"	6'-0"	2'-0"	(5) #8 T&B LONG., (39) #8 T&B TRANS.	
F3605020	36'-0"	5'-0"	2'-0"	(4) #10 T&B LONG., (37) #6 T&B TRANS.	
F4307020	43'-0"	7'-0"	2'-0"	(8) #8 T&B LONG., (43) #8 T&B TRANS.	
F4607020	46'-0"	7'-0"	2'-0"	(7) #8 TOP LONG., (21) #8 BOTT. LONG., (46) #8 T&B TRANS.	
F11011016	11'-0"	11'-0"	1'-6"	(8) #7 E.W. T&B	
F14014020	14'-0"	14'-0"	2'-0"	(10) #8 E.W. T&B	
F-ELEVATOR	11'-11 1/4"	10'-3 1/4"	1'-6"	#6 @ 9" E.W. TOP & BOT. #6 @ 9" O.C. E.W. T&B	



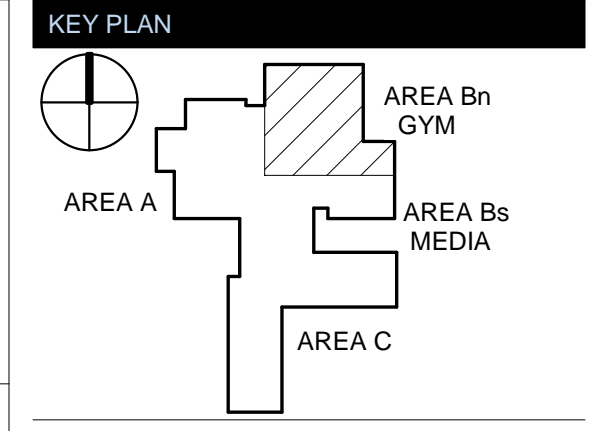
- FOUNDATION PLAN NOTES:**
- TYPICAL SLAB-ON-GRADE SHALL BE 6" IN THE GYM AND 4" U.N.O. 3000 PSI CONCRETE REINFORCED W/ 6x6-W2.9xW2.9 WWR ON VAPOR BARRIER OVER 6" POROUS STONE FILL ON COMPACTED SUBGRADE/FILL, U.N.O.
 - HATCHED AREA DENOTES SLAB DEPRESSIONS. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS VERIFY DEPRESSION DEPTH.
 - C - INDICATES COLUMN MARK - SEE COLUMN SCHEDULE.
 - F - INDICATES FOOTING MARK - SEE FOOTING SCHEDULE.
 - XB - INDICATES STEEL CROSS-BRACING.
 - CB - INDICATES STEEL COMPRESSION BRACING.
 - FINISH FLOOR ELEVATION - SEE ARCH DRAWINGS.
 - TYPICAL TOP OF FOOTING DEPTH AT EXTERIOR IS 2'-0" BELOW FINISHED FLOOR & 1'-0" AT INTERIOR, U.N.O.
 - PROVIDE CONTROL JOINTS (C.J.) USING SAWED JOINTS (S.J.) OR KEYED JOINTS (K.J.) AS REQUIRED BY CONCRETE PLACEMENT. DETAILS 1/S-501 RESPECTIVELY, BUT SHALL NOT BE LOCATED MORE THAN 15' APART AND SHALL HAVE AREAS LIMITED TO A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 OR LESS, U.N.O. FOR SLABS. SAWCUT PER SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR MASONRY WALL JOINT LOCATIONS. SEE 1/S-504 FOR JOINT DETAIL.
 - PROVIDE COLUMN ISOLATION JOINTS AT EACH COLUMN PER 4/S-501.
 - COORDINATE THICKENED FOOTINGS FOR LOAD-BEARING STAGE KNEEWALLS WITH SECTIONS ON SHEET S-506.
 - 12" CMU GYM WALLS IN THE "FIELD" ZONE SHALL BE REINFORCED WITH #8 @ 32" O.C. FULL HEIGHT AND FULLY GROUTED. 12" CMU WALLS WITHIN 12'-0" OF GYM WALL CORNERS SHALL BE REINFORCED WITH #8 @ 16" O.C. AND FULLY GROUTED.
 - 12" LOCKER ROOM WALLS SHALL BE REINFORCED WITH #4 @ 48" O.C. FULL HEIGHT AND GROUTED AT VERTICAL BAR LOCATIONS ABOVE GRADE AND IN ALL CELLS BELOW GRADE.

- Owner**
BRUNSWICK COUNTY SCHOOLS
199 SESSIONS DRIVE
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910.253.2960 office
www.bcswn.net
- Civil Engineer**
MAGILL ASSOCIATES
712 VILLAGE ROAD SW, SUITE 103
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910.755.5872 office
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- Food Service Consultant**
HERBIN DESIGN
7325 DORN CIRCLE
CHARLOTTE, NC 28212-6914
704.900.0922
www.herbin.com



TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
WINNABOW, NC 28479



No.	Description	Date
1	Addendum #1	TBD

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/8" = 1'-0"
SHEET NAME: FOUNDATION PLAN - GYM - AREA B NORTH
SHEET NUMBER:

S-101Bn



NEW YORK OKLAHOMA NORTH CAROLINA
TEXAS COLORADO SOUTH CAROLINA

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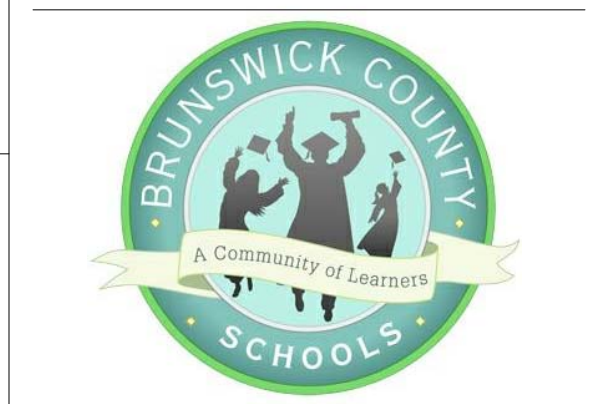
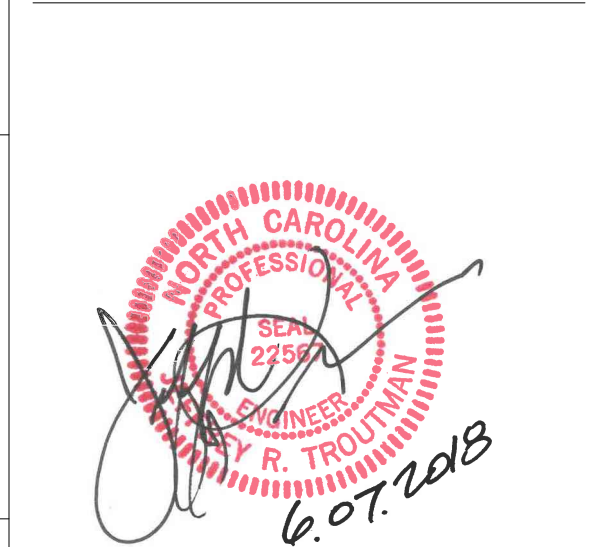
MEP Engineer
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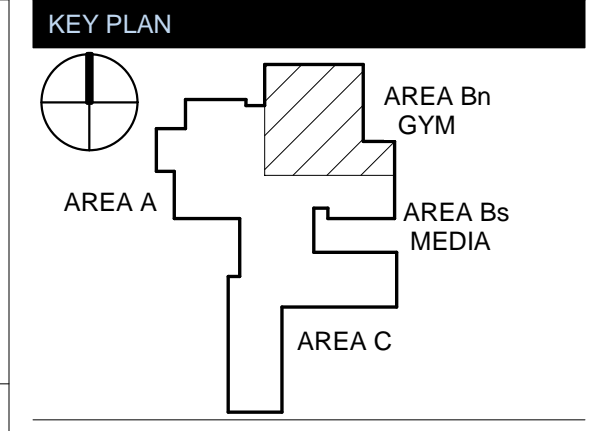
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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
WINNABOW, NC 28479

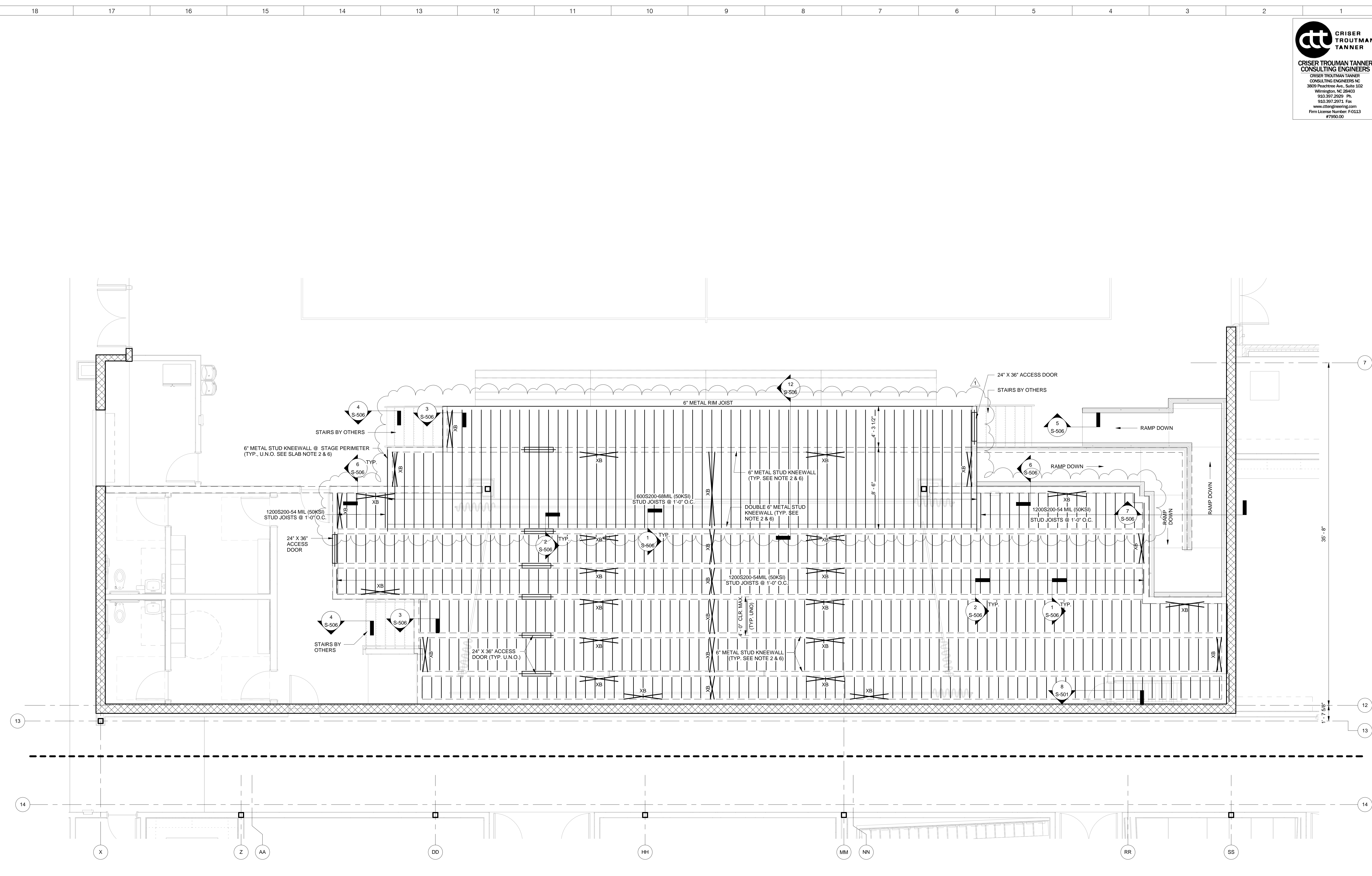


No.	Description	Date
1	ADDENDUM #1	TBD

ISSUED: CONSTRUCTION DOCUMENTS

DATE: 05/24/2018
SCALE: 1/4" = 1'-0"
SHEET NAME: STAGE FRAMING ENLARGED PLAN
SHEET NUMBER:

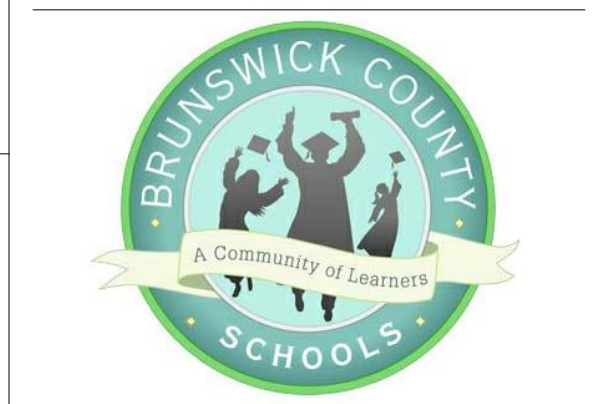
S-102Bn



STAGE FRAMING ENLARGED PLAN - AREA B NORTH
1/4" = 1'-0" 1

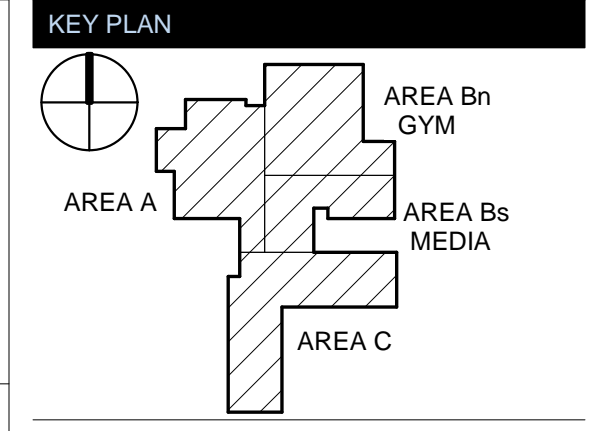
- STAGE FRAMING PLAN NOTES:**
- FASTENERS FOR CONNECTING STAGE PLYWOOD SUBFLOORING TO METAL STUD JOIST FRAMING: HILTI X-GPN 37 MX POWER-DRIVEN, KNURLED SHANK FASTENERS FOR STRUCTURAL WOOD PANEL FASTENING OR EQUIVALENT WITH THE FOLLOWING FASTENER SPACINGS:
 - PERIMETER EDGES OF SUBFLOORING PANELS: 6" O.C.
 - FIELD OF SUBFLOORING PANELS (ALONG STUD JOIST FRAMING): 12" O.C.
 - PROVIDE SOLID BLOCKING AT STUD JOIST MID-SPAN & BEARING LOCATIONS.
 - XB INDICATES STEEL CROSS-BRACING.
 - PROVIDE 1200S200-54 MILS (53 KSI) RIM JOISTS AT PERIMETER OF STUD JOIST FRAMING ENDS AND AT OPENINGS, U.N.O.
 - STAGE PLYWOOD SUBFLOORING SHALL BE 3/4" APA RATED (STURD-I-FLOOR 24 OR EQUIVALENT) SHEATHING.
 - PROVIDE 600S200-43 MILS (53 KSI) METAL STUDS @ 1'-0" O.C. TYPICAL KNEEWALL SPACING & JOIST SPAN @ 4'-0" CLEAR; MAX. JOIST CLEAR SPAN UP TO 5'-4". PROVIDE METAL STUD DIRECTLY BELOW STUD JOIST FRAMING.
 - VERIFY ALL STAGE DIMENSION WITH ARCHITECTURAL PLANS.
 - COORDINATE ALL FLOOR OPENINGS WITH ARCHITECTURAL DWGS. FOR SIZE AND LOCATION.
 - COORDINATE THICKENED FOOTINGS FOR LOADBEARING KNEEWALLS WITH DWG. S-101Bn.
 - COLD-FORMED VENDOR MAY MAKE SLIGHT ADJUSTMENT TO SUIT PRODUCT AVAILABILITY KEEPING EQUIVALENT MEMBERS FOR THE DESIGN.
 - VERIFY ALL STAGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

6/5/2018 10:31:40 AM
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TOWN CREEK MIDDLE SCHOOL

6370 LAKE PARK DRIVE SE
WINNABOW, NC 28479

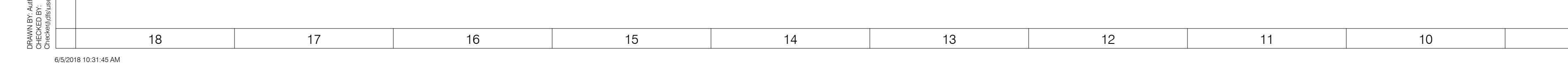
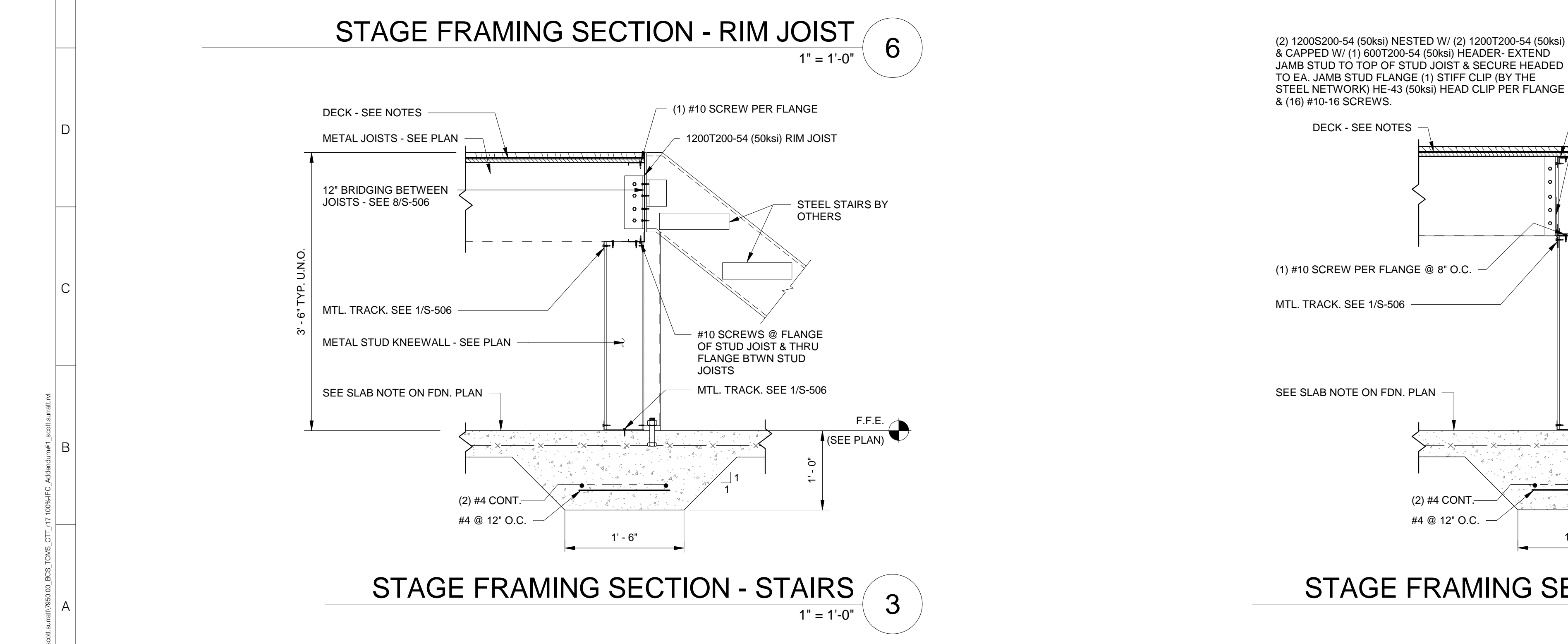
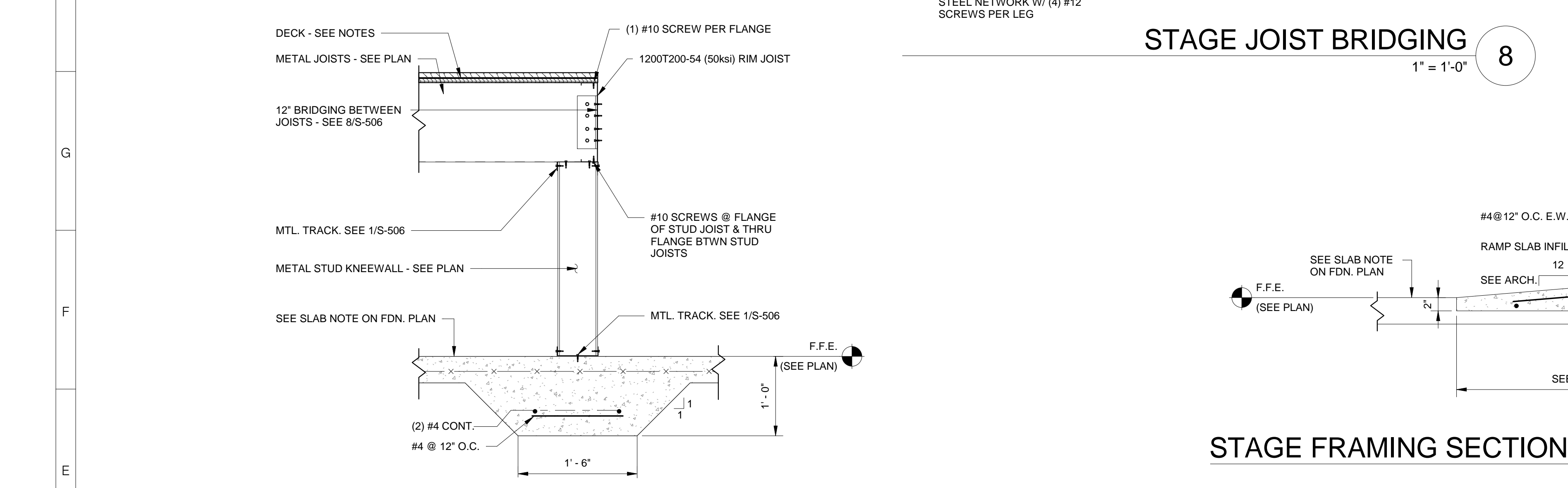
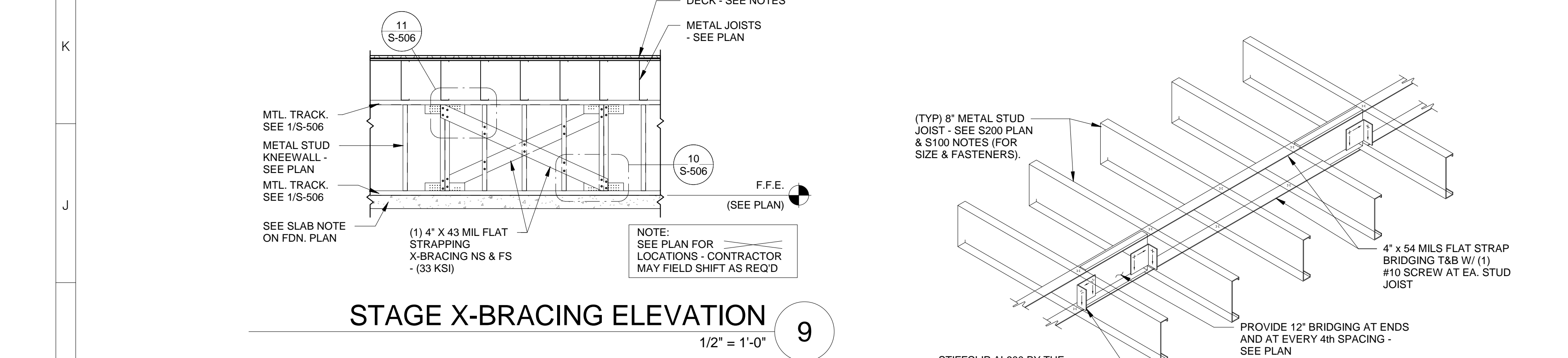
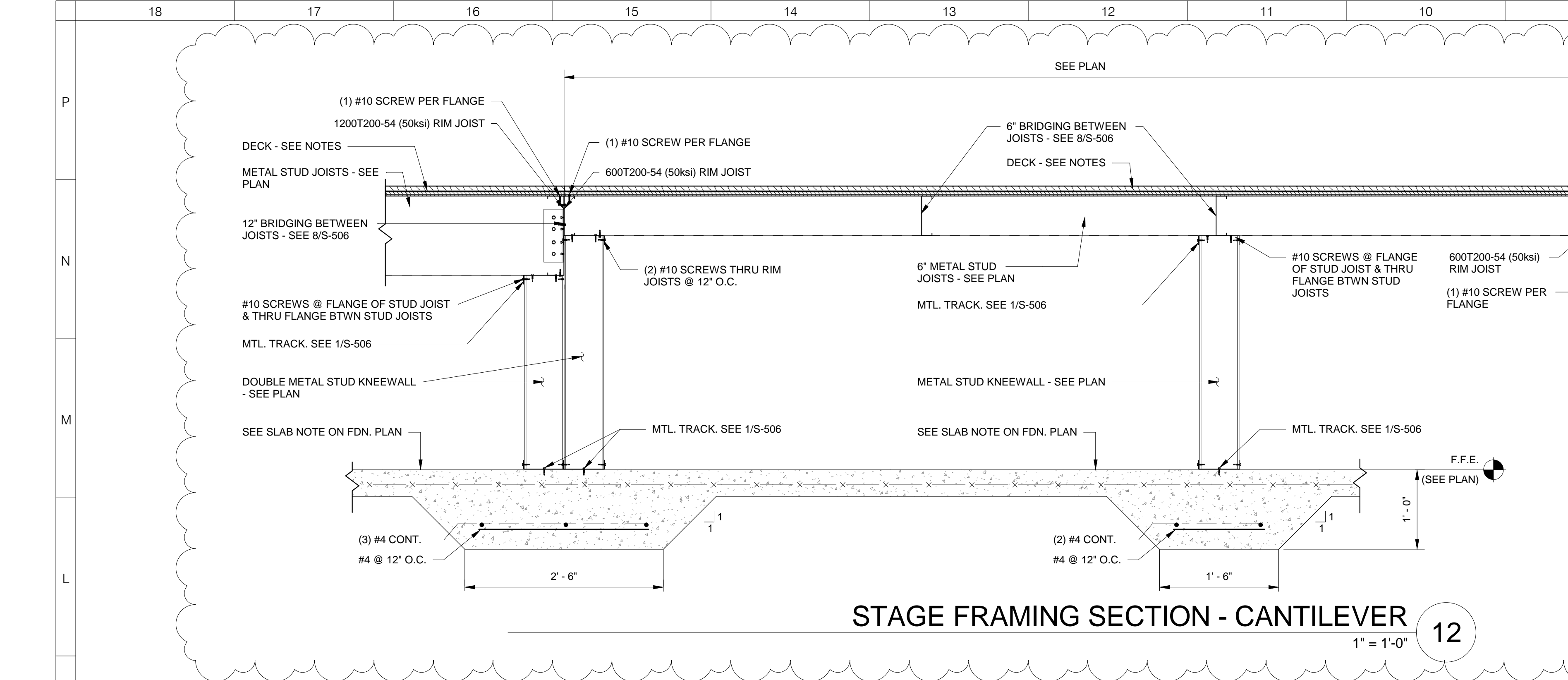
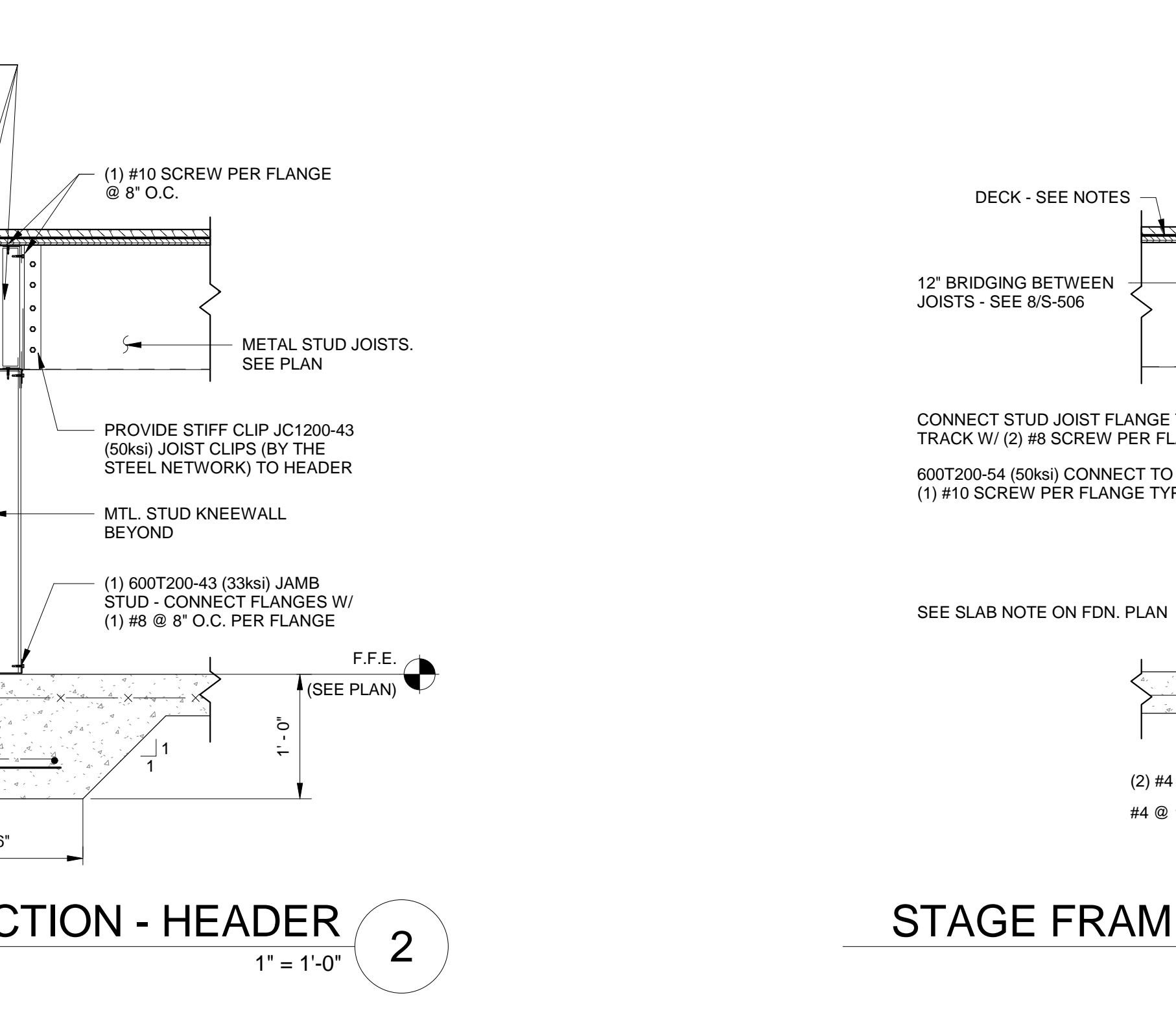
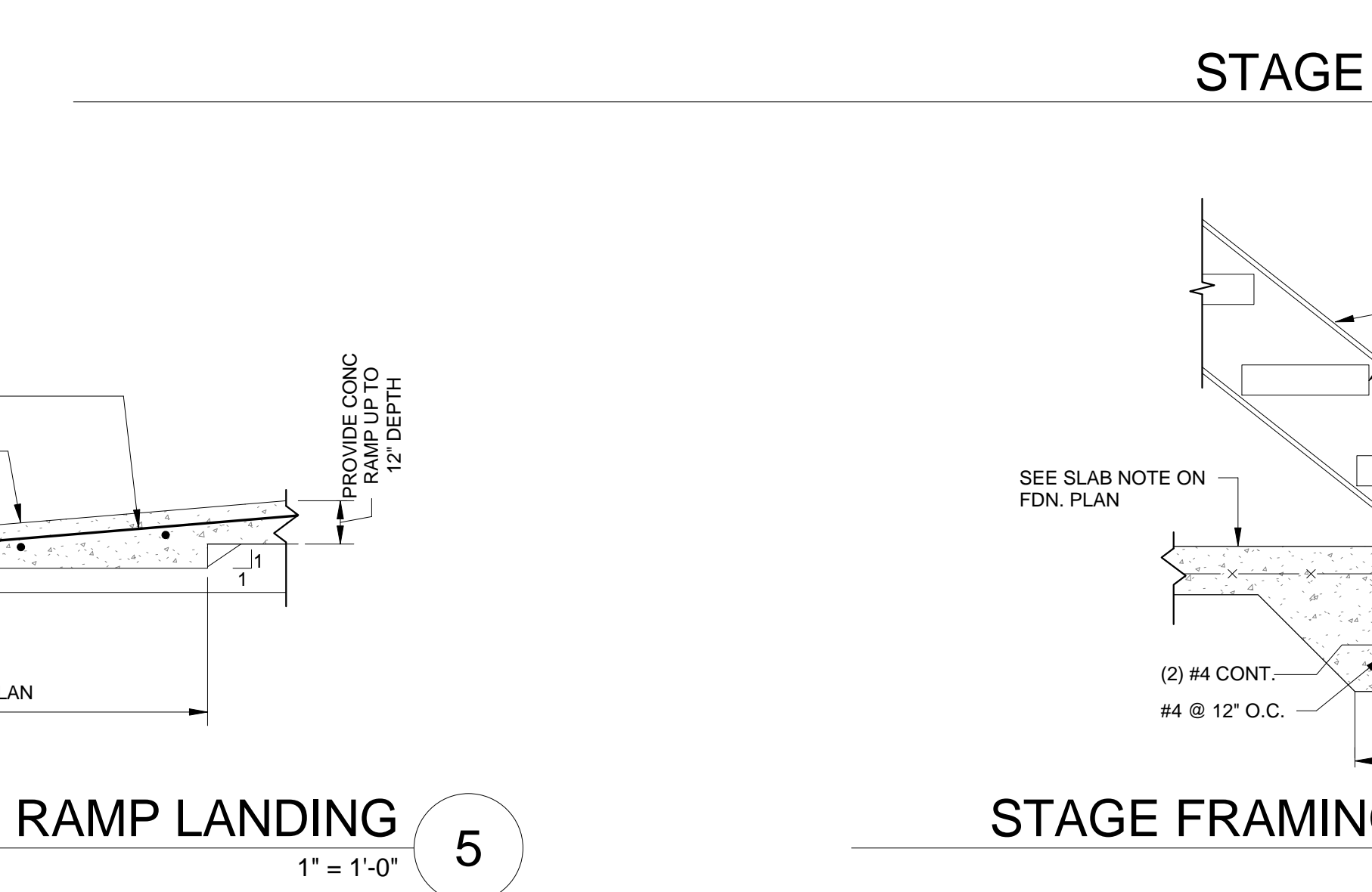
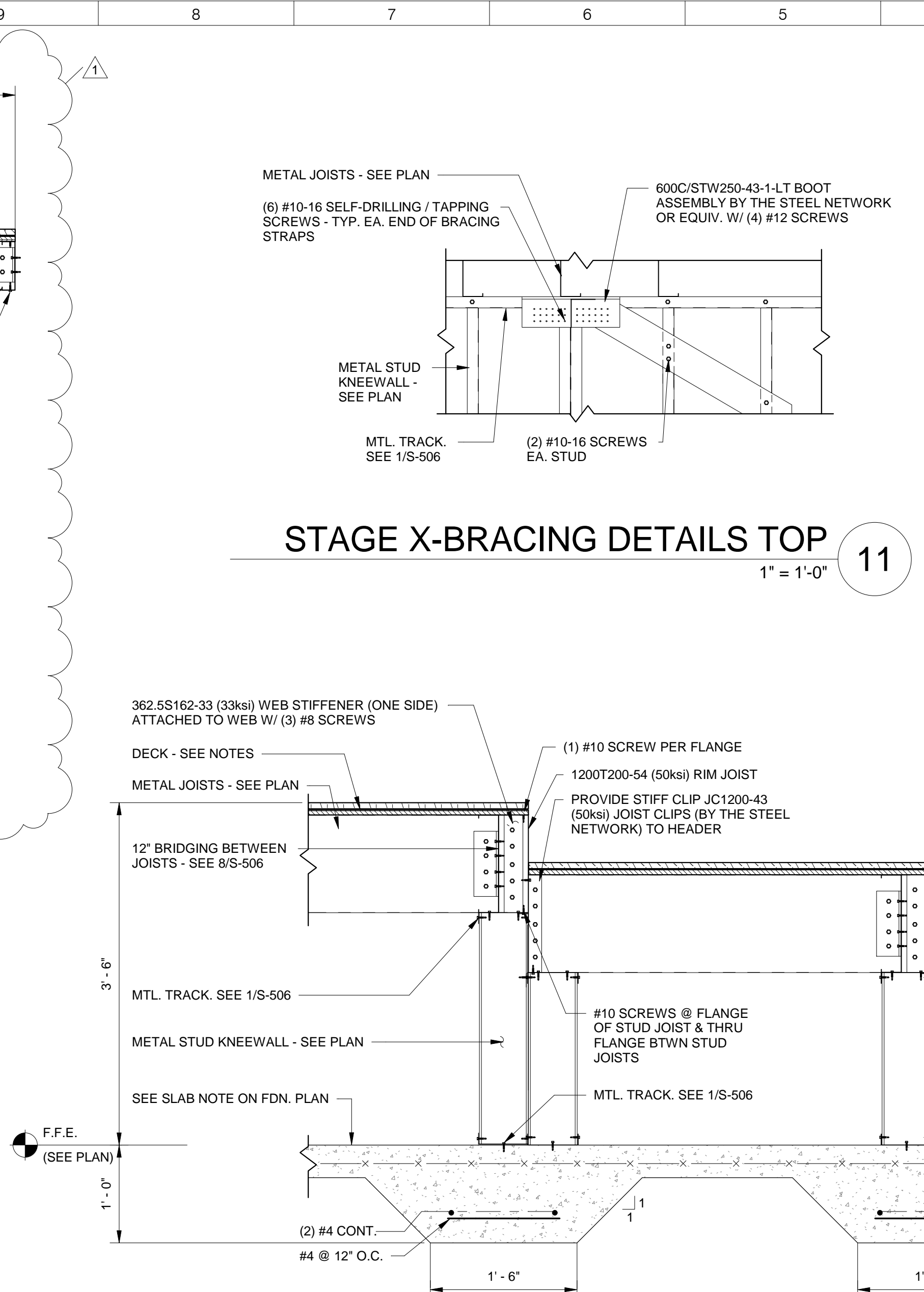
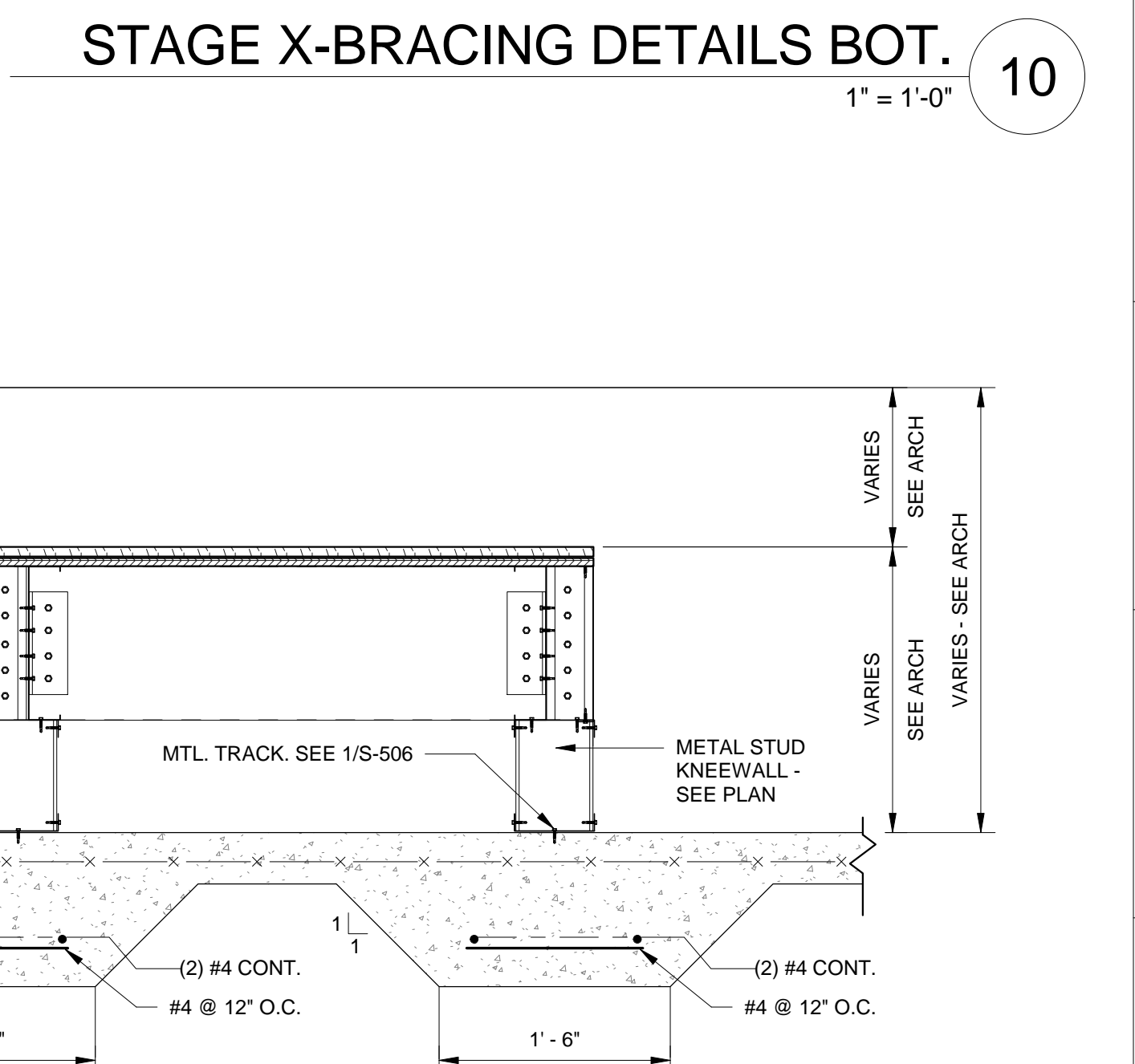
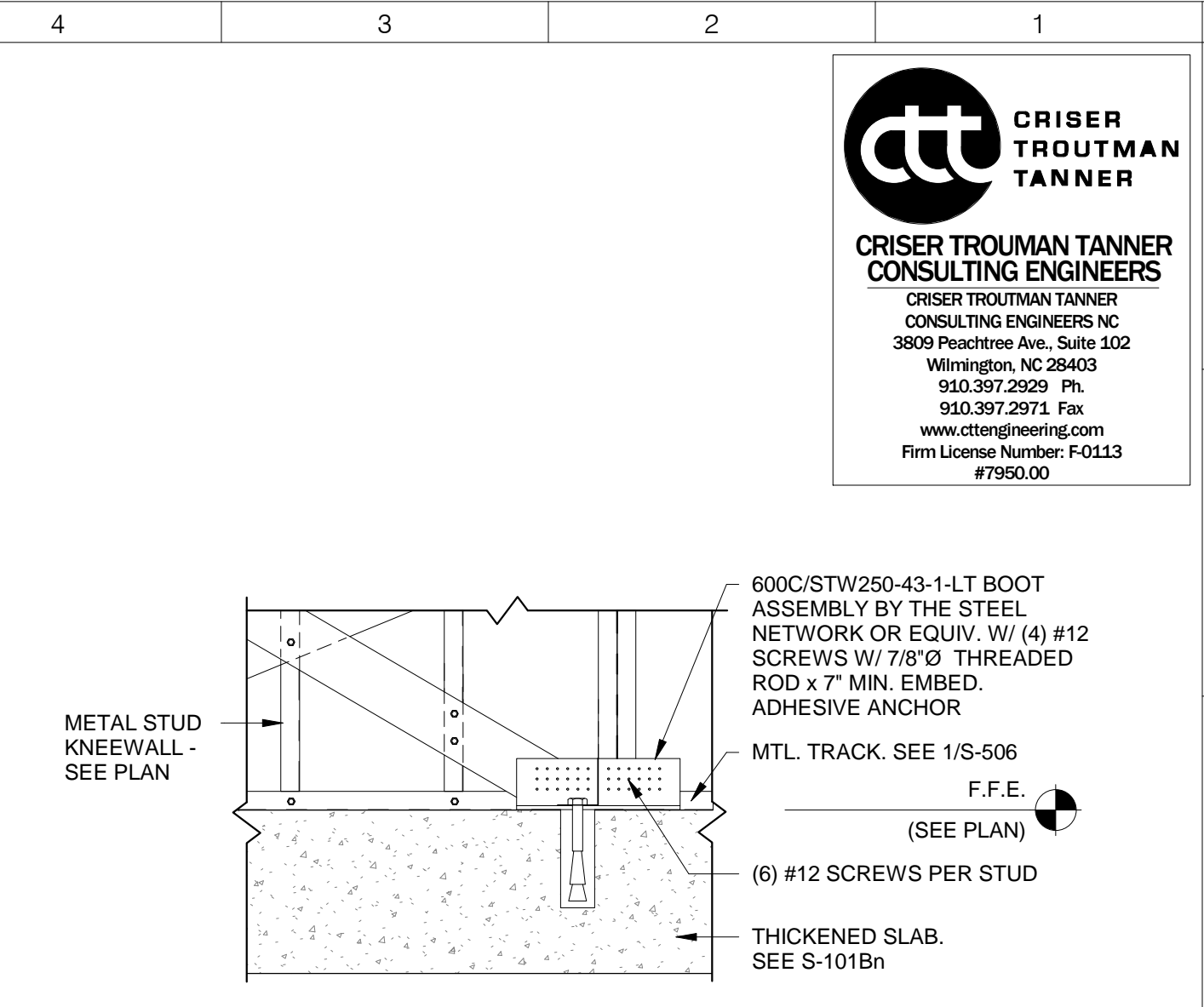


REVISIONS

No.	Description	Date
1	Addendum #1	TBD

ISSUED: CONSTRUCTION DOCUMENTS
DATE: 05/24/2018
SCALE: As indicated
SHEET NAME: STAGE FRAMING SECTIONS
SHEET NUMBER:

S-506





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Charlotte, North Carolina 28211

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ksq.design

ADDENDUM NUMBER: 1

BRUNSWICK COUNTY SCHOOLS

WINNABOW, NC

TOWN CREEK MIDDLE SCHOOL

PROJECT NUMBER 1720601.00

June 7, 2018

NOTICE TO CONTRACTORS

This Addendum issued prior to receipt of Bid shall and does hereby become a part of the Construction Documents for the above project.

All principal Contractors shall be responsible for seeing that their Subcontractors are properly apprised of the contents of this Addendum.

All information contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original Bidding Documents dated 03/29/18 and all previous addenda.

All Contractors shall acknowledge receipt of this Addendum in the space provided in the Proposal Form. Failure to do so may subject Bidder to disqualification.

A. CHANGES TO PRIOR ADDENDA

None.

B. CHANGES TO BIDDING REQUIREMENT

None.

C. CHANGES TO CONDITIONS OF THE CONTRACT

None.

D. CHANGES TO SPECIFICATIONS

SECTION 00 01 10 – TABLE OF CONTENTS

“DIVISION 08 OPENINGS”

Removed:

Section 08 33 23 Overhead Coiling Doors “

“DIVISION 10 SPECIALTIES”

Added:

Section 10 73 01 Aluminum Wall Hung Canopy

“DIVISION 11 EQUIPMENT”

Added:

Section 11 66 30 Performance Space Curtains

June 7, 2018

Page 2

SECTION 06 20 23– INTERIOR FINISH CARPENTRY

PART 2 – Products

Add the following item 2.04.”

PART 3 – Execution

Add the following item 3.04.”

SECTION 07 54 19 – POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 – General

Sub-part 1.01

”1.01 SUMMARY

Removed item 1 from sub-part A

Replace item 2 from sub-part A

B. Mechanically fastened polyvinyl-chloride (PVC) roofing system.

PART 3 – Execution

Replace the following Sub-part 3.06

”3.06 MECHANICALLY FASTENED ROOFING INSTALLATION

Replace in full items A-H.”

Remove the following Sub-part 3.07

”3.07 ADHERED ROOFING INSTALLATION

Remove in full.”

SECTION 09 64 66 – WOOD ATHLETIC FLOORING

PART 1 – General

Sub-part 1.01

”1.01 SUMMARY

Replaced item B to read as follow:

B. *Gymnasium protective covering and storage.*

PART 2 – Product

Sub-part 2.02

”2.02 MATERIAL

Added item H.

SECTION 10 14 00 – SIGNAGE

Add section in full

SECTION 10 73 01 – ALUMINUM WALL HUNG CANOPY

Add section in full

SECTION 11 31 00 – RESIDENTIAL APPLIANCES

PART 1 – General

Sub-part 1.01

”1.01 SUMMARY

Removed item 1 from sub-part A

Added item 2-3 from sub-part A”

PART 2 – Products

Sub-part 2.01

”2.01 MICROWAVE OVENS

Remove in full.”

June 7, 2018

Page 3

PART 2 – Products
Sub-part 2.03
"2.03 CLOTHES WASHERS AND DRYERS
Added in full."

PART 2 – Products
Sub-part 2.04
"2.04 ICE MACHINE
Added in full."

SECTION 11 60 30– PERFORMANCE SPACE CURTAINS
Add section in full

SECTION 11 66 23– GYMNASIUM EQUIPMENT

PART 1 – General
Sub-part 1.01
"1.01 SUMMARY
Added item 4 from sub-part A"

PART 2 – Products
Sub-part 2.06
"2.06 SCOREBOARD
Added sub-part in full."

PART 2 – Products
Sub-part 2.07
"2.07 SHOT CLOCKS
Added sub-part in full."

E. CHANGES TO DRAWINGS

GENERAL:

SHEET – G-001a SHEET INDEX

- a. Sheet reissued dated 6/7/18. Updated for Addendum items.

SHEET – G-001b SHEET INDEX

- a. Sheet reissued dated 6/7/18. Updated for Addendum items.

SHEET – G-021 BUILDING CODE ANALYSIS

- a. Sheet reissued dated 6/7/18. Plumbing requirements table updated, drinking fountain addition..

SHEET – G-031 GENERAL NOTES / ABBREVIATIONS / LEGENDS

- a. Sheet reissued dated 6/7/18. RFI # 0061, 0069.

SHEET – G-041 INTERIOR WALL TYPES

- a. Sheet reissued dated 6/7/18. RFI # 0052.

STRUCTURAL:

SHEET – S-001 GENERAL NOTES

- a. Sheet reissued dated 6/7/18. Updated masonry notes per RFI #0040 and clarified other notes.

SHEET – S-101Bn FOUNDATION PLAN - GYM

June 7, 2018

Page 4

- a. Sheet reissued dated 6/7/18. Updated foundations for cantilevered stage front per RFI #0041.
- b. Added thickened slab footing for full height wall section.

SHEET – S-102Bn STAGE FRAMING AND ENLARGED PLAN

- b. Sheet reissued dated 6/7/18. Updated framing to provide cantilevered stage front per RFI #0041.

SHEET – S-506 STAGE FRAMING SECTIONS

- a. Sheet reissued dated 6/7/18. Updated framing to provide cantilevered stage front per RFI #0041.

ARCHITECTURAL:**SHEET - A-011 ARCHITECTURAL SITE PLAN**

- a. Sheet reissued dated 6/7/18. Added note for future expansion of classroom wing..

SHEET - A-101A FLOOR PLAN LEVEL 1 – AREA A

- b. Sheet reissued dated 6/7/18. Drinking fountain added to Dining.
- c. RFI # 0043, 0047, 0052, 0053, 0069.

SHEET - A-101Bn FLOOR PLAN LEVEL 1 – AREA Bn GYM

- a. Sheet reissued dated 6/7/18. Snack Bar counter revised.
- b. Revised location of electric roll down screen.
- c. RFI # 0047, 0061 0064, 0069.

SHEET - A-101Bs FLOOR PLAN LEVEL 1 – AREA Bs MEDIA

- a. Sheet reissued dated 6/7/18. RFI # 0047.

SHEET - A-101C FLOOR PLAN LEVEL 1 – AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0047, 0061.

SHEET - A-102C FLOOR PLAN LEVEL 2 – AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0047.

SHEET - A-121 OVERALL ROOF PLAN

- a. Sheet reissued dated 6/7/18. Slope noted at pitched roofs.

SHEET - A-313 WALL SECTIONS – ADMIN, DINING

- a. Sheet reissued dated 6/7/18. Air curtain noted.

SHEET - A-320 WALL CANOPY SECTIONS

- a. Sheet reissued dated 6/7/18. RFI # 0044.

SHEET - A-501 EXTERIOR SECTION DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0054.

SHEET - A-502 EXTERIOR SECTION DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0054.

SHEET - A-511 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-512 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

June 7, 2018

Page 5

SHEET - A-513 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated. RFI # 0070.

SHEET - A-514 EXTERIOR PLAN DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-521 ROOF DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-522 ROOF DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.

SHEET - A-551 CEILING DETAILS

- a. Sheet reissued dated 6/7/18. Added detail H1 Proscenium at Gym.

SHEET - A-601 DOOR SCHEDULE

- a. Sheet reissued dated 6/7/18. RFI # 0050.

SHEET - A-611 DOOR DETAILS

- b. Sheet reissued dated 6/7/18. HM door at exterior brick details revised.

SHEET - A-612 DOOR DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0050.

SHEET - A-621 GLAZING SCHEDULE

- a. Sheet reissued dated 6/7/18. RFI # 0050, 0070.

SHEET - A-622 GLAZING SCHEDULE

- b. Sheet reissued dated 6/7/18. Detail references added.

SHEET - A-632 EXTERIOR OPENING DETAILS

- a. Sheet reissued dated 6/7/18. Self-adhered air barrier noted and details updated.
- b. SF door detail revised.

SHEET - A-804 INTERIOR ELEVATIONS

- a. Sheet reissued dated 6/7/18. Detail references added.

SHEET - A-805 INTERIOR ELEVATIONS

- a. Sheet reissued dated 6/7/18. Interior elevation added.

SHEET - A-806 INTERIOR ELEVATIONS

- a. Sheet reissued dated 6/7/18. Scoreboard, shot clock noted.
- b. Elevation A1 ceiling detail added and dimension revised

SHEET - A-831A FINISH FLOOR PLAN LEVEL 1 - AREA A

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-831Bn FINISH FLOOR PLAN LEVEL 1 - AREA B GYM

- b. Sheet reissued dated 6/7/18. RFI # 0042, 0045.

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SHEET - A-831Bs FINISH FLOOR PLAN LEVEL 1 - AREA B MEDIA

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-831C FINISH FLOOR PLAN LEVEL 1 - AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-832C FINISH FLOOR PLAN LEVEL 2 - AREA C

- a. Sheet reissued dated 6/7/18. RFI # 0045.

SHEET - A-841 INTERIOR FINISH LEGEND & SCHEDULES

- a. Sheet reissued dated 6/7/18. RFI # 0042.

SHEET - A-861 SIGNAGE SCHEDULE & DETAILS

- a. Sheet reissued dated 6/7/18. RFI # 0045. New sheet.

ELECTRICAL:**SHEET - E- 001 GENERAL PROJECT INFORMATION**

- a. Sheet reissued dated 6/7/18. Symbol Legend changes for sound system
- b. Canopy Lighting specification change

SHEET - E- 011 ELECTRICAL SITE PLAN

- a. Sheet reissued dated 6/7/18. Canopy Lighting symbol change to match type change

SHEET - E- 111A POWER FLOOR PLAN-LEVEL 1-AREA B GYM (Narrative only)

- a. Room #1311, GWH-1 connection extension (Circuit L1A-45)

SHEET - E- 111Bn POWER FLOOR PLAN-LEVEL 1-AREA B GYM

- a. Door Opener connection addition (Circuit L1B-50)
(Narrative only):
- b. Sheet reissued dated 6/7/18. Room #1209, GWH-2 connection extension (Circuit L1C-18)
- c. Room #1413, EWH-2 connection addition (Circuit H1A-25)
- d. Room #1206B, EWH-1 connection addition (Circuit H1A-19)
- e. Room #1208B, EWH-1 connection addition (Circuit H1A-21)
- f. Room #1210, CL connection change (Circuit L1B-67)
- g. Room #1210, Divider Curtain (DC) connection addition (Circuit L1B-52)

SHEET - E- 111Bs POWER FLOOR PLAN-LEVEL 1-AREA B MEDIA

- a. Sheet reissued dated 6/7/18. Door Opener connection addition (Circuit L1C-50)

SHEET - E- 111C POWER FLOOR PLAN-LEVEL 1-AREA C

- b. Sheet reissued dated 6/7/18. Door Opener connection addition (Circuit L1D-42)
- c. Maker Space Ceiling Receptacles (Circuit L1D-29,31)
- d. Projection screen connection moved to stage opening
(Narrative only):
- e. Room #1826, GWH-3 connection extension (Circuit L1D-30)
- f. Room #1707, GWH-4 connection extension (Circuit L1E-37)

SHEET - E- 121Bn COMMUNICATION FLOOR PLAN-LEVEL 1-AREA B GYM

- a. Gym Sound System additions
- b. Sound System Details

June 7, 2018

Page 7

(Narrative only):

- c. Room #2814, GWH-5 connection extension (Circuit L2F-37)

SHEET - E- 121Bs COMMUNICATION FLOOR PLAN-LEVEL 1-AREA B MEDIA

- a. Sheet reissued dated 6/7/18. Sound System Details

SHEET - E- 401 PANELBOARD SCHEDULES (Narrative only)

- a. Sheet reissued dated 6/7/18. Panel schedule H1A - Change circuits 19, 21 from spares to EWH-1
- b. Panel schedule H1A - Change circuit 25 from space to 50A/1P for EWH-2

SHEET - E- 402 PANELBOARD SCHEDULES

- c. Sheet reissued dated 6/7/18. Panel schedule changes
(Narrative only):
- d. Panel schedule L1B - Change circuit 29/31 from 25A to 15A
- e. Panel schedule L1B - Change circuit 49/51 to spare
- f. Panel schedule L1B - Change circuit 67 from 20A/1P to 15A/1P
- g. Panel schedule L1B - Change circuit 52 from 20A/1P to 25A/1P
- h. Panel schedule L1C - Change circuit 42/44 from 25A to 15A

SHEET - E- 403 PANELBOARD SCHEDULES

- a. Sheet reissued dated 6/7/18. Panel schedule changes

SHEET - E- 406 SCHEDULES

- a. Sheet reissued dated 6/7/18. Schedule changes for Door Opener connections
(Narrative only):
- b. Misc. Connection Schedule note #1, special receptacle and cord to be provided by manufacturer, provide 10A/2P/240V,NEMA fused disconnect

PLUMBING:**SHEET - P- 001 GENERAL PROJECT INFORMATION**

- a. Sheet reissued dated 6/7/18. Added missing kitchen equipment number.

SHEET - P- 101Bn WASTE AND VENT FLOOR PLAN – LEVEL 1 – AREA B GYM

- a. Sheet reissued dated 6/7/18. Relocate VTR and added ice maker floor drain.

SHEET - P- 101C WASTE AND VENT FLOOR PLAN – LEVEL 1 – AREA C

- a. Sheet reissued dated 6/7/18. Added drain boxes for mechanical equipment.
- b. Added wall cleanout.

SHEET - P- 102C WASTE AND VENT FLOOR PLAN – LEVEL 2 – AREA C

- a. Sheet reissued dated 6/7/18. Added 2nd floor vent piping at science labs.
- b. Added drain boxes, adjusted venting.

SHEET - P- 111A DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA A

- a. Sheet reissued dated 6/7/18. RFI 0039.

SHEET - P- 111Bn DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA B GYM

- a. Sheet reissued dated 6/7/18. Modified plan to show high piping at gym.
- b. Added ice maker.

SHEET - P- 111Bs DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA B MEDIA

June 7, 2018

Page 8

- a. Sheet reissued dated 6/7/18. Modified plan to show high piping.

SHEET - P- 111C DOMESTIC WATER FLOOR PLAN – LEVEL 1 – AREA C

- a. Sheet reissued dated 6/7/18. Added sink at makers space.
- b. Deleted master mixing valve.
- c. Indicated balancing valve flow rates.

SHEET - P- 112C DOMESTIC WATER FLOOR PLAN – LEVEL 2 – AREA C

- a. Sheet reissued dated 6/7/18. Adjusted piping to avoid gypboard ceilings.
- b. Deleted master mixing valve.

SHEET - P- 121A PLUMBING ROOF PLAN – AREA A

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 121Bn PLUMBING ROOF PLAN – AREA B GYM

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 121Bs PLUMBING ROOF PLAN – AREA B MEDIA

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 121C PLUMBING ROOF PLAN – AREA C

- a. Sheet reissued dated 6/7/18. Adjusted mech equipment and VTR locations.

SHEET - P- 302 ENLARGED PLANS – WATER PIPING

- a. Sheet reissued dated 6/7/18. Adjusted piping to avoid gypboard ceilings.

SHEET - P- 402 PLUMBING DETAILS

- a. Sheet reissued dated 6/7/18. Added ice maker detail.

SHEET - P- 501 PLUMBING SCHEDULES

- a. Sheet reissued dated 6/7/18. modified schedules.

ENCLOSURES:**SPEC SECTIONS**

- 00 01 10 – TABLE OF CONTENTS
- 06 20 23– INTERIOR FINISH CARPENTRY
- 07 54 19 – POLYVINYL-CHLORIDE (PVC) ROOFING
- 10 14 00 – SIGNAGE
- 10 73 01 – ALUMINUM WALL HUNG CANOPY
- 11 31 00 – RESIDENTIAL APPLIANCES
- 11 60 30– PERFORMANCE SPACE CURTAINS
- 11 66 23– GYMNASIUM EQUIPMENT
- 09 64 66 – WOOD ATHLETIC FLOORING

June 7, 2018

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SHEETS**GENERAL**G-001a
G-001b
G-021
G-031
G-041**ARCHITECTURAL**A-011
A-101A
A-101Bn
A-101Bs
A-101C
A-102C
A-121
A-313
A-320
A-501
A-502
A-511
A-512
A-513
A-514
A-521
A-522**ELECTRICAL**E- 001
E- 011
E- 111Bn
E- 111Bs
E- 111C
E- 121Bn
E- 121Bs
E- 402
E- 403
E- 406**PLUMBING**P- 001
P- 101Bn**STRUCT**S-001
S-101Bn
S-102Bn
S-506A-551
A-601
A-611
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A-621
A-622
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A-804
A-805
A-806
A-831A
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A-831Bs
A-831C
A-832C
A-841
A-861P- 101C
P- 102C
P- 111A
P- 111Bn
P- 111Bs
P- 111C
P- 112C
P- 121A
P- 121Bn
P- 121Bs
P- 121C
P- 302
P- 402
P- 501**END OF ADDENDA**



Subcontractor Scope of Work

Exhibit A

Town Creek Middle School

BP – 10G

Exterior Doors Canopies, Cafeteria Awning

Job # 18-404

A. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

DIVISION 00 – Procurement and Contracting Requirements

DIVISION 01 – General Requirements

10 73 01 Aluminum Wall Hung Canopies

B. Subcontractor's work specifically includes:

1. Subcontractor to provide and install attachment bolts, columns and canopies, gutter and down spouts required for complete installation of said scope.
2. Attachment and Anchoring to be designed by North Carolina Registered Engineer

C. Subcontractor Specific Requirements:

- A. Submittals must be uploaded onto WMJ Shareware site for review. To gain access to shareware site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
- B. Delivery Requirements: As coordinated by Subcontractor with WMJ on site Superintendent. Subcontractor is responsible to coordinate delivers with vendors. The construction manager will not provide equipment to unload subcontractor materials
- C. Not Used
- D. It is the responsibility of this Subcontractor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.
- E. Any and all requirements for mockups for approval of assemblies on this project are fully included.
- F. Not Used
- G. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.
- H. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.



- I. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations
- J. The Subcontractor is to include the following allowances in their base bid amount. These allowances will include all overhead and profit and will be identified on a separate line item in the payment application schedule of values. The Construction Manager is solely responsible for determining what work will be charged against these allowances and all said work must be authorized in writing by the Project Manager or Superintendent prior to commencing. Subcontractor will submit daily work slips for verification and actual costs against this allowance will be reconciled at the completion of the project. Any work performed by Subcontractor that was not previously authorized by the CM will not be reimbursed.
- K. Not Used
- L. Not Used
- M. Not Used



Scope of Work

Exhibit A

BP-11B

Appliances-Refrigerators, Ice Makers, Washer and Dryer Material Only

(Alternate to Install)

Town Creek Middle School

18-404

A. The vendor shall furnish all layout, materials, equipment, supplies and all other things necessary or reasonably incidental for the installation and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

Supplemental Instructions to Bidders dated May 18, 2018

Division 00 Procurement and Contracting Requirement

Division 01 General Requirements

11 31 00 Residential Appliances

B. Vendors Scope Specifically Includes:

11 31 00 Residential Appliances

1. Vendor to provide all residential appliances as shown on the document. Scope includes electrical power tails / whip, safety lanyards / retention device.
2. Base bid should include tax on material.

Voluntary Add Alternate to Install:

1. Vendor can provide alternate to install said materials. If vendor does included installation refer to section D.

C. Vendor Specific Requirements:

1. Submittals must be uploaded onto WMJ Shareware site for review. To gain access to shareware site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
2. Delivery Requirements: As coordinated by Vendor with WMJ on site Superintendent. Subcontractor is responsible to coordinate delivers with vendors. The construction manager will not provide equipment to unload subcontractor materials
3. It is the responsibility of this Vendor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.



4. Any and all requirements for mockups for approval of assemblies on this project are fully included.

- D. Portion of work applicable if the vendors chooses to provide alternate to install said materials.
 1. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, taxes, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:
 2. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.
 3. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.
 4. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations
 5. The Subcontractor is to include the following allowances in their base bid amount. These allowances will include all overhead and profit and will be identified on a separate line item in the payment application schedule of values. The Construction Manager is solely responsible for determining what work will be charged against these allowances and all said work must be authorized in writing by the Project Manager or Superintendent prior to commencing. Subcontractor will submit daily work slips for verification and actual costs against this allowance will be reconciled at the completion of the project. Any work performed by Subcontractor that was not previously authorized by the CM will not be reimbursed.



Subcontractor Scope of Work
Exhibit A
BP-11G
Stage Curtain and Stage Equipment
Town Creek Middle School
Job # 18-404

A. The subcontractor shall perform all work and shall furnish all layout, supervision, materials, labor, scaffolding, tools, equipment, supplies, services, rigging, craning and hoisting of all materials and equipment and all other things necessary or reasonably incidental for the construction and completion of their work as portrayed in the enclosed enumerated contract documents and specification sections as referenced below:

DIVISION 00 – Procurement and Contracting Requirements

DIVISION 01 – General Requirements

11 60 01 Broadcast, Theater and Stage Equipment

11 60 30 Performance Space and Curtain

B. Subcontractor's work specifically includes:

1. Provide stage curtains and stage equipment as shown in the contract documents.
2. Any additional steel support required to support stage curtain / equipment or rigging not shown on the contract documents but needed for this scope, shall be included in this scopes work.

C. Subcontractor Specific Requirements:

- A. Submittals must be uploaded onto WMJ Shareware site for review. To gain access to shareware site please contact the Construction Manager within 5 days of receiving the contract. All submittals are expected to be received no later than 20 days of receiving the contract unless discussed and approved by the Construction Manager.
- B. Delivery Requirements: As coordinated by Subcontractor with WMJ on site Superintendent. Subcontractor is responsible to coordinate delivers with vendors. The construction manager will not provide equipment to unload subcontractor materials
- C. Not Used
- D. It is the responsibility of this Subcontractor to anticipate inspection delays in the installation durations and sequence such work ahead of others as not to impose delays in the schedule.
- E. Any and all requirements for mockups for approval of assemblies on this project are fully included.
- F. Not Used
- G. This Subcontractor should provide protection for ANY new and existing installations as part of this Project. If protection provided by others is not sufficient to support/protect the work as part of this scope, this Subcontractor shall provide additional protection as may be required to fully protect that equipment or installation.



- H. All damage to paint primers or applied factory finishes damaged during install shall be repaired by this Subcontractor.
- I. Final cleaning of all equipment prior to Final Project Completion including removal of shipping stickers, etc. This shall apply to all existing installations as well as new installations
- J. Not Used
- K. Provide signed shop drawings by a registered and licensed Engineer in State of North Carolina as indicated in Contract Documents.
- L. Subcontractor shall provide shop drawings indicating member size, camber, location, etc. as well as indicating anchorage details, etc.
- M. Not Used



Town Creek Middle School
BID FORM

Project: Town Creek Middle School
Winnabow, North Carolina 28479

Mail To (Prior to Bid Day): W. M. Jordan Company
Attn: Seth Speight
1712 Eastwood Road, Suite 200
Wilmington, North Carolina 28403

Hand Deliver To (Bid Day Only): W.M. Jordan Company
Attn: Seth Speight
Hampton Inn (Near Home Depot)
124 Old Eastwood Rd.
Wilmington, NC 28403

Company Name: _____

Estimator: _____ Estimator's Phone #: _____

License #: _____ WMBE/HUB Status: _____

Acknowledgements:

We have received; visited and/or reviewed (please check the boxes to acknowledge):

- checkbox All materials provided in or referenced by the Project Manual
checkbox All drawings and Specifications and other exhibits referenced herein
checkbox Addenda issued by the Architect and referenced below
checkbox Site conditions relevant to the work
checkbox Supplemental Instructions to Bidders
checkbox WM Jordan Subcontractor Agreement

Clarifications:

Bidder acknowledges receipt of the clarifications listed below:

Table with 2 columns: Clarification No. and Initials. Contains 5 rows for recording clarifications.



Addenda:

Bidder acknowledges receipt of the addenda listed below:

Addendum No.	Initials:
Addendum No.	Initials:
Addendum No.	Initials:
Addendum No.	Initials:

The undersigned, as Bidder, hereby declares that the only person or persons interested in this Proposal as principal or principals is or are named herein and that no other person than herein mentioned has interest in this Proposal or in the contract to be entered. The Bidder further declares that he has examined the site of the Work and the Contract Documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees if this proposal is accepted to contract with W.M Jordan Company in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor required to complete the Work to the full and entire satisfaction of the State of North Carolina, Brunswick County Schools, KSQ Design and its Consultants.

Total bid price for all work, complete, in accordance with the Contract Documents, including all applicable Federal, State, and local taxes. All required insurance costs. Bids are good for 90 days.

Please list the Bid Package(s) ID to indicate the package(s) you are bidding.

Bid Package ID _____:

Town Creek Middle School: _____ 00/100 Dollars \$ _____



BP-32 (Division 10 & 11 Install and General Carpentry) Only:

Installation of each section is to be priced as if it were to be separate contracts. Award of install subcontracts may be broken up into several bidders pending pricing of individual sections. Refer to BP-32 Scope of Work.

1. Provide allowance for 300 man hours of carpentry labor to be used at the discretion of the CMR superintendent.

_____ 00/100 Dollars \$ _____

2. Provide and install pressure treated 2x4 wood blocking at all exterior windows (4 sides) and doors (3 sides).

_____ 00/100 Dollars \$ _____

3. Install all visual display surfaces per plans and specifications.
(Includes installing owner provided smartboards)

_____ 00/100 Dollars \$ _____

4. Install all toilet accessories and toilet partitions per plans and specifications
(Includes installing owner provided toilet accessories).

_____ 00/100 Dollars \$ _____

5. Install all wall protection per plans and specifications.

_____ 00/100 Dollars \$ _____

6. Install all fire extinguishers and fire extinguisher cabinets per plans and specifications.

_____ 00/100 Dollars \$ _____

7. Install flagpole per plans and specifications.

_____ 00/100 Dollars \$ _____

8. Install residential appliances per plans and specifications.

_____ 00/100 Dollars \$ _____

9. Install site benches per plans and specifications.

_____ 00/100 Dollars \$ _____



Alternates:

CM-Alt #1: Add for payment and performance bond.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A-Alt #1: Provide mortise locks by Schlage L9000 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A-Alt #2: Provide cylindrical locks by Schlage BD 92 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A- Alt #3: Provide exit devises by Von Duprin 98/35 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A- Alt #4: Provide door closers by LCN 4010/4110 series in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-08A- Alt #5: Provide door cylinders by Schlage in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-10A- Alt #1: Provide add to install visual display boards per BP-10A scope of work. (Includes install of owner provided smartboards).

(ADD) _____ 00/100 Dollars \$ _____



BP-10C- Alt #1: Provide add to install toilet accessories, toilet partitions per BP-10C scope of work. (Includes install of owner provided toilet accessories)

(ADD) _____ 00/100 Dollars \$ _____

BP-10D- Alt #1: Provide add to install fire extinguishers and fire extinguisher cabinets per BP-10D scope of work.

(ADD) _____ 00/100 Dollars \$ _____

BP-10F- Alt #1: Provide add to furnish and install walkway cover extension alternate from the new middle school to the existing elementary school per plans and specifications. See plans for extent of walkway in base bid vs alternate.

(ADD) _____ 00/100 Dollars \$ _____

BP-10F- Alt #2: Provide add to furnish and install exterior door canopies per BP-10G plans and specifications.

(ADD) _____ 00/100 Dollars \$ _____

BP-10H- Alt #1: Provide add to install flagpole per BP-10H scope of work.

(ADD) _____ 00/100 Dollars \$ _____

BP-10I- Alt #1: Provide add to install wall protection per BP-10I scope of work.

(ADD) _____ 00/100 Dollars \$ _____

BP-11B- Alt #1: Provide add to install residential appliances per BP-11B.

(ADD) _____ 00/100 Dollars \$ _____

BP-11F- Alt #1: Provide add to furnish and install divider curtain in gym per plans and specifications.

(ADD) _____ 00/100 Dollars \$ _____



BP-12E- Alt #1: Provide add to install site benches per plans and specifications.

(ADD) _____ 00/100 Dollars \$ _____

BP-23A- Alt #1: Provide and install controls by Schneider Electric in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-26A- Alt #1: Provide and install school video system by Video Insight (recently purchased by Panasonic) lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-26A- Alt #2: Provide and install AD 300 electric locks to tie into a proprietary lock data base. New locks will require licenses, which are to be included in scope. All locks tying into the system need to be purchased through open options dealer. This is in lieu of other acceptable manufacturers.

(ADD) _____ 00/100 Dollars \$ _____

BP-26A- Alt #3: Provide and install walkway canopy lighting for the walkway cover extension alternate from the new middle school to the existing elementary school per plans and specifications. See architectural plans for extent of walkway in base bid vs alternate.

(ADD) _____ 00/100 Dollars \$ _____

Company: _____

Signature: _____ Date: _____

Title: _____

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

*** OR ***

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MB contractors, vendors and suppliers that will be used. If there is no MB participation, then enter none or zero on the form. Affidavit A **or** Affidavit B, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

State of North Carolina AFFIDAVIT A – Listing of Good Faith Efforts

County of _____

(Name of Bidder)

Affidavit of _____

I have made a good faith effort to comply under the following areas checked:

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101)

- 1 – (10 pts)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- 2 --(10 pts)** Made the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bids are due.
- 3 – (15 pts)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- 4 – (10 pts)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- 5 – (10 pts)** Attended prebid meetings scheduled by the public owner.
- 6 – (20 pts)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- 7 – (15 pts)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- 8 – (25 pts)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- 9 – (20 pts)** Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- 10 - (20 pts)** Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

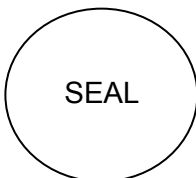
The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the Identification of Minority Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d) Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20____

Notary Public _____

My commission expires _____

State of North Carolina --AFFIDAVIT B-- Intent to Perform Contract with Own Workforce.

County of _____

Affidavit of _____
(Name of Bidder)

I hereby certify that it is our intent to perform 100% of the work required for the _____ contract.
(Name of Project)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and

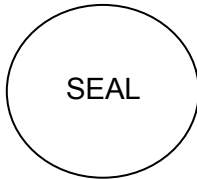
The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement. The Bidder agrees to make a Good Faith Effort to utilize minority suppliers where possible.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20__

Notary Public _____

My commission expires _____



W. M. JORDAN COMPANY'S ADDENDUM NO. 01

TOWN CREEK MIDDLE SCHOOL CD BID

JUNE 12, 2018

1. Bids are to be submitted on the project bid form in a sealed envelope. Emailed bids will not be accepted. Please refer to "Instructions to Bidders" for proper bid submission requirements.
2. The bid date of June 26th @ 2:00pm remains unchanged.
3. Bid Bonds: A bid bond of an amount equal to or not less than five percent (5%) of the bid amount is to be included with the bids for bid packages that are \$300,000 and above.
4. A non-mandatory pre-bid meeting is scheduled for June 13th @ 1:00pm at the existing Town Creek Elementary School cafeteria.
5. Bid Package BP-09D. Remove Stage Flooring from Title. Stage flooring is LVT and is to be included in BP-09E. Plywood subflooring is to be included in BP-09A.
6. Bid Package BP-26A is to provide and install Tele data, Communications, Sound and Security systems complete per plans and specs. Owner will not be providing or installing any systems.
7. Tack strips shown on sheets A-831A through A-832C are to be included in bid package BP-10A as well as bid package BP-32.
8. Bid package BP-08A is to include the auto door operators in their package per plans and specs.
9. Bid Package BP-26A- Fire alarm is to be non-proprietary, open protocol.
10. Steel stairs on S-101Bn are to be included in bid package BP-05A.
11. Project bid form has been revised dated (2018.06.12).
12. Bid packages: BP-10G Exterior Door Canopies and BP-11G Gym Stage Curtains have been added.
13. Bid package: BP-11B has been revised to incorporate the revised specification 11 31 00 in addendum #1. Scope now includes: Refrigerators, Washers & Dryers, and Ice Machine.

14. Vapor Lock has been added as approved for specification section 03 05 10.
15. Per owners request lockers will be changed from plastic to metal. Specification to be issued in Addendum #2
16. Question: Sheet S-001 masonry notes #8 & #17 have all cells grouted solid. Per RFI 0017 grouting solid is not needed. Please revise.
Answer: Masonry note #8 on Sheet S-001 shall be clarified to read "Masonry cells containing bars shall be grouted and shall be fully grouted as noted."

Masonry note #17 on Sheet S-001 shall be clarified to read "Fully grout all cells containing vertical reinforcing. Other cells shall be grouted as noted." in lieu of "Fully grout all cells."

Response to RFI #17 was based on DD drawings. Upon completion of full design, the gym walls are required to be fully grouted. Other walls will be partially grouted as shown.
17. Question: Sheet S-101A footings for the dumpster screen has been changed to say "Ref to civil drawings". Footing sizes/designs for the dumpster screens shouldn't be on the civil drawings. Please clarify.
Answer: For the 8' high screenwalls, located outside of the kitchen's cooler/freezer room, the screenwalls, which are shown to be 8" CMU on civil and arch drawings, cannot be adequately reinforced for the design wind. These screenwalls shall be clarified to be 12" CMU. See Section 7/S-501 for the required wall reinforcing and footing.
18. Question: We have been unable to locate the automatic door operators that were discussed in OAC meetings on the plans or in the specs. Please advise with locations/specifications.
Answer: Please see attached sheets for door locations.
19. Question: Per previous RFI 0008 the drywall on the walls in the admin area can be just above ceiling height. Sheet G-041 has all walls extending to structure above. Please confirm and note walls on drawings that this reduction can apply to.
Answer: Attached is the ASK 001 for wall locations. The walls highlighted are to go to deck while those not highlighted will stop 6" above the ceiling. The wall acoustic performance has been coordinated with the Acoustic Consultant; non-rated walls without acoustic performance will stop at the ceiling as marked on the PDF.
Wall tags will reflect this information in Addendum #1. Revisions to the Wall Type Sheet to show the standard type A wall stopping 6" after the ceiling will be incorporated as well.
20. Question: Specification 095129 calls for cementitious wood fiber ceiling panels, however on the finish legend on A-841 there are only 2 types of ACT listed and they are not wood fiber. Please advise.
Answer: Please remove Cementitious Wood Fiber Ceiling Panels 09 51 29 from the specs.
21. Question: Per value engineering with BCS, it was decided the wood gym floor overlay system would be provided as an add alternate. Please provide a specification for the wood gym floor overlay system alternate.

Answer: Owner to provided floor protective covering. Item will not be included in bid.

22. Question:

1. Coiling counter door for snack bar 1202 is not sized and does not show up on the door schedule. Please size/number and include on the door schedule for bidding subcontractors.
2. Fire shutter door in dining 1302 is not sized and does not show up on the door schedule. Please size/number and include on the door schedule for bidding subcontractors.
3. Specifications list 08 33 23 overhead coiling doors, however we have not been able to locate any overhead coiling doors. We have located a rolling counter door (at snack bar 1202) and a fire shutter (at dining 1302). Please advise the location of any overhead coiling doors.

Answer: Attached sheet address question 1 and 2, doors 1202A and 1302C.
Question 3: there is not an overhead coiling door in this project. Spec section 08 33 23 will be removed.

23. Question: Sheet A-831Bn does not show any flooring designs/logos. Please advise if there will be flooring design/logos for clarification to bidding subcontractors.

Answer: See attached revised sheet A-831Bn.

24. Question: Finish legend on A-841 shows wood flooring type WD-1 & WD-2, however sheet A-831Bn only shows WD-1. Please advise as to WD-2.

Answer: The sheets that the WD-2 is located are A-804, A-805, A-806—all interior elevations because it is a vertical element. The detail is on A-811. This is to be included in BP-06A.

25. Question: Equipment legend on G-031 has washers and dryers. We have been unable to locate laundry equipment specifications. Please advise.

Answer: Spec section 11 31 00 Residential appliances will be submitted in Addendum #1.

26. Question: Specialties and equipment schedule on G-031 list outdoor benches to be contractor furnished/installed. We have been unable to locate them on the drawings or in the specifications. Please advise.

Answer: 1. Outdoor benches spec section will be addressed in Addendum #2.
2. Benches are located and noted on sheets A-101Bn and A-101C, see attachments.

27. Question: Sheet A-320 detail A1 does not show extent of walkway canopy of what is to be included in the base bid vs what is to be in the alternate. This will need to be shown for clarity to bidding subcontractors. Please advise.

Answer: See attached revised sheet A-320. Base bid and alternate have been identified. Front canopy is to be included in base bid also.

28. Question:

1. Sheet TA-001 General notes #4 says "All phone, data, cable & network lines are by others". We are under the impression that the systems are to be provided fully and are not "by others". Please advise.

2. Sheet TY-001 Project notes #4 says "All network cables will be provided and installed by others". We are under the impression that the systems are to be provided fully and are not "by others". Please advise.

Answer: Network cables for AV and security are to be provided by the network vendor as shown on the TN drawings.

The TA (AV) and TY (security) vendor will provide devices these cables plug into.

BP-26A is to provide and install Tele data, Communications and Security systems complete per plans and specs. Owner will not be providing or installing any systems.

29. **Question:** Per specification 051200 the steel fabricator is to be AISC certified. The specification doesn't seem to indicate the steel erector has to be AISC certified, but rather comply with years/project experience and keeping quality control program in accordance with AISC. For clarification please confirm/clarify.

Answer: That is correct. Steel specification section 05 12 00 was edited per JM Jordan's request in RFI 022 (Elem School) to reduce constraints on erector for the Elementary School project. Same verbiage was used in the steel specification section 05 12 00 for the Middle School.

30. **Question:** Specifications reference a signage schedule, but we have been unable to locate any signage design/layouts/locations on the drawings.

Answer: Spec section 10 14 00 Signage will be submitted in Addendum #1.

31. **Question:** Sheet A-621 detail K1 there is a detail of the Kalwall opening showing 3 vertical size panels for the opening. 3'-8 3/8": 4'-3 1/4"; 3'- 8 3/8. Making up one 12'-0" opening. Can the opening be three equal panels vs what is currently drawn with having the center being wider? If not the internal grid pattern of the panels will be different. Please advise.

Answer: See attachments of revised sheets A-513 and A-621 where kalwall shows three equal 12' panels.

32. **Question:** Please advise on the preferred orientation of the panels. Shoji, Reverse Shoji, Tuckerman?

Answer: Shoji orientation per elevations.

33. **Question:** Specification section 07 54 19 3.06 seems to indicate PVC roofing is adhered. Per conversations with BCS we believe they preferred to have the roofing mechanically fastened vs adhered. Please advise.

Answer: PVC roofing mechanically fastened. Revised spec section 07 54 19 will be submitted in Addendum #1.

34. Question: Finish legend shows rubber flooring (RF-1 and RF-2) to be color 273 Copper Penny. We have been notified that the rubber stair treads and tiles do not come in that color. Please advise on another acceptable color.

Answer: It has been confirm with Johnsonite representative that 273 Copper Penny (not Copper) is available in the integrated stair tread and riser. The 24x24 rubber tile is also available in Copper Penny.

35. Question: Specification sections 09 84 30 Acoustical Wall Panel System, 09 84 34 Sound-Absorbing Ceiling Units refer to acoustical wall panels and handing ceiling panels. Specification section 11 60 01 Broadcast, Theater and Stage Equipment also has wall panel information with differing acceptable manufacturers. Please advise which specifications are correct.

Answer: All specifications are correct:

- Specification sections 09 84 30 Acoustical Wall Panel System is applicable at the Gym walls (sheet A-806)

- 09 84 34 Sound-Absorbing Ceiling Units refer to acoustical wall panels and hanging ceiling panels is applicable at Gym ceiling (sheets A-111Bn & A-806 and note "ACP-1, TYP")

- 11 60 01 Broadcast, Theater and Stage Equipment is applicable at the vocal music and instrumental music rooms (sheet A-801 details F1, F7, J1 & J5)

36. Question: We have been unable to locate a specification for the stage curtains. Please advise.

Answer: Spec section 11 60 30 Performance Space Curtain will be submitted in Addendum #1.

37. Question: Sheet G-031 lists (S3) adjustable storage shelving, however we have been unable to locate any specifications on them. Please advise.

Answer: Revised spec section 06 20 23 Interior Finish Carpentry will be submitted in Addendum #1.

38. Question: We have been unable to locate a specification for the exterior gym door canopies. Please advise.

Answer: Spec Section 10 73 01 Aluminum Wall Hung Canopy will be submitted in Addendum #1

39. Question: Per specification section 064116- 1.03-A. The casework fabricator must be a participant in AWI's Quality certification program. Please clarify if this will be a requirement or can be waived?

Answer: Client has decided to waive.

40. Question: Please provide specifications for:

1. Exterior Door Canopies & Cafeteria Awning
2. Commercial Laundry Equipment
3. Gym Stage Curtains

Answer: The following Specs sections will be submitted in Addendum #1:
10 73 01 Aluminum Wall Hung Canopy
Revised 11 31 00 Residential Appliances
11 60 30 Performance Space Curtains

41. Question: Specification 116623 Gymnasium Equipment does not include a scoreboard specification. Please provide for bidding subcontractors.

Answer: Revised spec section 11 66 23 will be submitted in Addendum #1.

42. Question: The rooftop ERV's on M-502 are based on Greenheck with no equals listed on the schedule. All of the other equipment schedules list approved equals. Are there any other manufactures approved to bid these units?

Answer: Additional manufacturers for ERVs will be added in addendum 2.

43. Question: There are no specification sections for the ERV's. Can some be issued?

Answer: A specification for the ERVs will be added in addendum 2.

44. Question: The notes for the packaged rooftop unit schedule on M-501 list wind rated roof curbs and vibration roof curbs for the larger size units. There is no mention of this requirement on the other rooftop unit curbs (Kitchen MUA RTU-11 & ERV's). Will these require wind rated curbs also?

Answer: Refer to Section 230548, "Vibration and Seismic Controls for HVAC Piping and Equipment" for requirements for roof curbs, equipment rails and wind restraints.

45. Question: Specification 126613 notes the telescoping bleachers are electric. SD and DD design estimates have been carrying manual bleachers. Please advise if changing to electric is a needed/wanted premium.

Answer: Bleachers are to be manual pull-out.

46. Question: There are columns on the structural drawings that are not labeled.

1. Sheet S-101A- along lines Q & N
2. Sheet S-101Bn- along lines 3 & 4
3. Sheet S-101- along lines HH & Z

Please advise on those column callouts.

Answer:

1. On sheet S-101A along grid lines Q & N, the referenced unlabeled columns are part of the firewall structure. Addendum #2 will fully cover these column callouts and the firewall details.
2. On sheets S-101Bn along grid lines 3 & 4, the referenced columns are HSS8x6x3/8. These callouts will be labeled correctly in Addendum #2.
3. On sheet S-101Bs along grid lines HH & Z, the referenced unlabeled columns are part of the firewall structure. Addendum #2 will fully cover these column callouts and the firewall details.

43. Question: 1. 1/A-531 shows plywood risers & plywood treads on the stage steps. Floor finish plan A-831 does not indicate what flooring type is needed on the ramps at the stage. Please advise.

a. We have not been able to locate a edge of stage detail. Please advise.

Answer: 1. Finishes for the stage ramp and stairs will be the LVT-1 that we are using on the stage. For the stairs it will be both the tread and riser that is the LVT-1.

a. Detail has been addressed by structural in Addendum #1. Architectural detail will be submitted in Addendum #2.

47. Question: Sheet A-502 detail A1 has entire footing being wrapped with waterproofing. Please confirm this is not needed/revise drawing.

Answer: Detail has been addressed in Addendum #1.

48. Question: Sheet A-101A Room #1313 "Lockers" does not show any lockers. Please advise if there will be lockers in this room. If so, please provide layouts.

Answer: Locker locations has been addressed in Addendum #1.

49. Question: We have not been able to locate cut sections at the roof edge on sheet S-121C. Please advise.

Answer: Section cut marks were inadvertently omitted. Plan will be submitted with appropriate section cuts in Addendum #2.

50. Question: The Legend on page TN-001 indicated the intercom speakers shall be VOIP Intercom Speakers. The Detail for the same intercom speaker notes the loudspeaker "AS PER AV SPEC". The intercom section of spec section 27 10 00 2.14 does not specify the type of speakers to be installed. Typically Brunswick County Schools, installs lay-in style or flush mounted 25 volt Bogen Intercom speakers. Please clarify what type of speaker should be included on the base bid?

Answer: Loud speaker is to be and IP loudspeaker compatible with paging system.

50. Question: Spec section 27 10 00 2.14 states that "Basis of design for the intercom system will follow (expand) the existing Bogen communications, Inc Quantum Multicom IP specification as provided by Bogen Communications, Inc." Are we to expand an existing Quantum Intercom or supply a new intercom for this project?

Answer: New Quantum was called out to match ES.

51. Question: There were not any Intercom hallway speakers shown on the contract documents. Will hallway speakers be required for this project?

Answer: Not Requested by School

52. Question: 28 05 00, 2.01 B. States "Coordinate with owner on integrating proposed new system device(s) as indicated on the plan drawing connecting with existing ACS system/components." Are we to expand an existing ACS system or provide a new ACS for this project? Please provide manufacture of the existing system to be expanded.

Answer: The ACS system is new.

53. Question: Will an S2 Door Access Control System be accepted for this project.

Answer: Deferred to school district. The goal is to match existing systems in the existing ES.

54. Question: Please clarify who is responsible for supplying and installing the Electrified Locks/Strikes, ELR Kits and power supplies.

Answer: Security Contractor

55. Question: 28 05 00, 102 D states the owner will provide "Access control system credentials. Test cards will be issued by owner for contractor testing and verification." Shall the ACS subcontractor be required to supply any cards for this project? If yes how many cards should be supplied?

Answer: 100

56. Question: 28 05 00, 1.02 F, 1. States that "All external cameras shown on drawing will be an alternate to the base system." The legend on page TY-001 seems to match with this statement but the symbol for Exterior Camera, Fixed, Bullet (Alternate) is not used on the drawings. The regular ceiling mounted camera, fixed bullet is used for all but one exterior camera and that camera is a wall mounted bullet. Please clarify what should be included in the base bid and what should be an alternate.

Answer: All exterior cameras are to be fixed bullet camera. Owner confirmed on 6/12/18 that both interior and exterior cameras are to be in base bid.

57. Question: 28 05 00, 102 D states the owner will provide "Avigilon Video Management System software, licenses and recording/storage hardware." 1.03 A, states "Contractor shall provide a turn-key security system..." 28 05 00, 2.07 states "Security Equipment Wire handling devices and CAT 6 patch cables A. Furnished, installed and provisioned by owner." Please clarify what our scope of work will be for the CCTV system described in this spec section.

Answer: Cameras mounts and programing. Coordination with owner as they bring the VMS up. Coordinate with Network vendor on the placement and installation of all field cabling for the cameras.

58. Question: Door contacts are shown on multiple exterior doors that do not have door access. What is the intent for these Door Contacts that are not part of the Door Access System?

Answer: Door monitoring

59. Question: Is there an Intrusion Detection System that should be provided with the base bid? If yes would a Napco G255 Intrusion Detection System head-end be accepted?

Answer: No IDS was requested by the owner.

60. Question: Will a riser be provided for the Structured Cabling, Door Access, Intrusion Protections, Intercom systems. What will be required for the backbone cabling between closets for the Structured Cabling (how many fiber strands, 25 pair cabling for the phone system).

Answer: Fiber and phone requirements including riser were called out in TN Scope of work.

61. Question: 27 10 00 D, E, F, G. Typically we provide one patch cable for each data drop in the closet none in the field and a second patch cable for each camera and Wireless Access Point. Please clarify what will satisfy the contract documents for each of these sections before adding the extra patch cords as stated in each section.

Answer: Patch cables are called out per school request.

62. Question: Per equipment legend on G-031, overhead power in the maker space is to be included. In looking over the drawings, we have been unable to locate that requirement/locations/counts etc. on the electrical drawings. Please advise.

Answer: Attached is the screenshot of what it has been specified. Per owner request, white housing with yellow cords. Revised sheet E-111C Addendum #1 will be re-issue in addendum #2 to revise quantity and locations. 6 white overhead electrical pull downs are required.(Disregard pricing on picture).

HUBBELL HBLC30163TT CORD REEL W/ TAP



Part Description: HUBBELL HBLC30163TT CORD REEL W/ TAP

Technical Description:CORD REEL 30FT 16/3 WITH TRIPLE TAP
UPC: 78358519855

Your Price: \$153.70 / ea
Total Available: This Item Usually Ships Same Day