

EDMONDSON REED & ASSOCIATES

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Modification Bulletin

Project Name: Cherokee Hard Rock Casino 4 777 W CHEROKEE ST CATOOSA, OK 74344

Project No:

Modification Bulletin No: 04

To: Flintco, LLC 1624 West 21st Street Tulsa, OK 74107

Date: 06/28/2018

Description:

This bulletin provides various revisions to Millwork, TV's quantities and locations. Room117A (Cage Office) has been added. Coiling door #102B has been deleted and door #126B between EDR and the Kitchenette and door #217 in the Poker Room has been added as requested by the Owner.

Platform #122 has been extended to accommodate speakers.

Several additional details have been added for the Smoke Shop for clarity.

Attachments:

A-110.1, A-111.1, A-112.1, A-122.1, A-210, A-211, A-212, A-215, A-216, A-217, A-218, A-430, A-431, A-432, A-433, A-435, A-436, A-532, A-540, A-560 A-561, AC-110.1, AC-111.1 and AC-112.1

Specifications:

064023_Interior Architectural Woodwork 087100 Door Hardware REVISED

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SECTION 064023

INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Architectural wood cabinets.
 - 2. Interior ornamental work.
 - 3. Plastic-laminate cabinets.
 - 4. Plastic-laminate countertops.
 - 5. Wood panel system.
 - 6. Shop finishing of interior woodwork.
- B. Related Sections include the following:
 - 1. Section 061053 "Miscellaneous Rough Carpentry" for wood furring, blocking, shims, and hanging strips required for installing woodwork and concealed within other construction before woodwork installation.
 - 2. Section 090001 "Schedule of Finishes."
 - 3. Section 123640 "Stone Countertops" for stone countertops.
 - 4. Section 123661 "Solid Surfacing Countertops" for solid-surface-material countertops

1.3 DEFINITIONS

A. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips for installing woodwork items unless concealed within other construction before woodwork installation.

1.4 SUBMITTALS

- A. Product Data: For high-pressure decorative laminate, adhesive for bonding plastic laminate, cabinet hardware and accessories and finishing materials and processes.
 - 1. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements.
- B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
 - 1. Show details full size.
 - 2. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
 - 3. Show locations and sizes of cutouts and holes for plumbing fixtures and other items installed in architectural woodwork.

- 4. Show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.
- C. Samples for Initial Selection:
 - 1. Shop-applied transparent finishes.
 - 2. Shop-applied opaque finishes.
 - 3. Plastic laminates.
 - 4. PVC edge material.
 - 5. Thermoset decorative panels.
- D. Samples for Verification:
 - 1. Lumber with or for transparent finish, not less than 5 inches (125 mm) wide by 24 inches (600 mm) long, for each species and cut, finished on 1 side and 1 edge.
 - 2. Veneer leaves representative of and selected from flitches to be used for transparent-finished woodwork.
 - 3. Veneer-faced panel products with or for transparent finish, 8 by 10 inches (200 by 250 mm), for each species and cut. Include at least one face-veneer seam and finish as specified.
 - 4. Lumber and panel products with shop-applied opaque finish, 50 sq. in. (300 sq. cm) for lumber and 8 by 10 inches (200 by 250 mm) for panels, for each finish system and color, with ½ of exposed surface finished.
 - 5. Plastic laminates, 8 by 10 inches (200 by 250 mm), for each type, color, pattern, and surface finish, with 1 sample applied to core material and specified edge material applied to 1 edge.
 - 6. Thermoset decorative-panels, 8 by 10 inches (200 by 250 mm), for each type, color, pattern, and surface finish, with edge banding on 1 edge.
 - 7. Corner pieces as follows:
 - a. Cabinet-front frame joints between stiles and rails, as well as exposed end pieces, 18 inches (450 mm) high by 18 inches (450 mm) wide by 6 inches (150 mm) deep.
 - b. Miter joints for standing trim.
 - 8. Exposed cabinet hardware and accessories, one unit for each type and finish.
- E. Product Certificates: For each type of product, signed by product manufacturer.
- F. Qualification Data: For Fabricator and Installer.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance. Shop is a certified participant in AWI's Quality Certification Program.
- B. Installer Qualifications: Certified participant in AWI's Quality Certification Program.
- C. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of interior architectural woodwork with sequence-matched wood veneers and transparent-finished wood doors that are required to be of same species as woodwork.
- D. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards" for grades of interior architectural woodwork indicated for construction, finishes, installation, and other requirements.

- E. Fire-Test-Response Characteristics: Where fire-retardant materials or products are indicated, provide materials and products with specified fire-test-response characteristics as determined by testing identical products per test method indicated by UL, ITS, or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify with appropriate markings of applicable testing and inspecting agency in the form of separable paper label or, where required by authorities having jurisdiction, imprint on surfaces of materials that will be concealed from view after installation.
- F. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- G. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver woodwork until painting and similar operations that could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install woodwork 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.
- B. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being enclosed, and indicate measurements on Shop Drawings.
 - 2. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating woodwork without field measurements. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.8 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that interior architectural woodwork can be supported and installed as indicated.
- B. Hardware Coordination: Distribute copies of approved hardware schedule specified in Division 08 Section "Door Hardware (Scheduled by Describing Products)" to fabricator of architectural woodwork; coordinate Shop Drawings and fabrication with hardware requirements.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide materials that comply with requirements of AWI's quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
- B. Wood Products: Comply with the following:
 - 1. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue, made with binder containing no urea formaldehyde
 - 2. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde.
 - 3. Marine-grade plywood made entirely of Douglas-fir or Western Larch. The grade of all plies of veneer is B or better, which means it may have knots, but no knotholes. The panels are sanded on both faces. The maximum core-gap size permitted is 1/8 inch. Its exposure durability rating is EXTERIOR and the glue used is a fully waterproof structural adhesive.
 - a. Face Grade: A-A.
- C. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.
 - 1. Provide Polypropylene (PP) or Acrylonitrile butadiene styrene (ABS) edge banding complying with LMA EDG-1 on components with exposed or semiexposed edges.
 - a. Rehau, United Polymer Solutions.
- D. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by woodwork quality standard.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering highpressure decorative laminates that may be incorporated into the Work include, but are not limited to, the following:
 - a. Abet Laminati, Inc.
 - b. Arborite; Division of ITW Canada, Inc.
 - c. Formica Corporation.
 - d. Lab Designs.
 - e. Lamin-Art, Inc.
 - f. Nevamar Company, LLC; Decorative Products Div.
 - g. Panolam Industries International Incorporated.
 - h. Wilsonart International; Div. of Premark International, Inc.
- E. Metal Surfacing Material: Provide the following metal surface finishes:
 - 1. Low-Pressure Decorative Metallic Laminate:
 - a. Advanced Technologies. (800)849-1320.
 - b. Chemetal Corporation, Stratford CT (203)375-5300, (203)377-5298.
 - c. Wilsonart Brand Decorative Metals, Ralph Wilson Plastics Company, (800)433-3222.

- F. Tempered Float Glass for Cabinet Shelves: ASTM C 1048, Kind FT, Condition A, Type I, Class 1 (clear), Quality-Q3, with exposed edges seamed before tempering, 6 mm thick, unless otherwise indicated.
- G. Upholstery Fabric (**FAB-#**): Complying with NFPA 701 and ASTM E 84 for Class I materials, and the following:
 - 1. Width: 56 inches.
 - 2. 100,000 double rubs.
 - 3. Products: Reference Section 090001 "Schedule of Finishes.
- H. Upholstery Fabric Cushion: Foam cushion backing, complying with Oklahoma State Building Code requirements for Class I interior finish materials and having the following surface-burning characteristics when tested per ASTM E 84 for 30 minutes with no evidence of significant combustion:
 - 1. Flame Spread: 25.
 - 2. Smoke Developed: 450.
 - 3. Thickness: 2 inches thick, unless otherwise indicated on the Drawings.

2.2 FIRE-RETARDANT-TREATED MATERIALS:

- A. Fire-Retardant-Treated Materials, General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
 - 1. Use treated materials that comply with requirements of referenced woodworking standard. Do not use materials that are warped, discolored, or otherwise defective.
 - 2. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
 - 3. Identify fire-retardant-treated materials with appropriate classification marking of qualified testing agency in the form of removable paper label or imprint on surfaces that will be concealed from view after installation.
- B. Fire-Retardant-Treated Lumber and Plywood: 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 and plywood after treatment to a maximum moisture content of 19 and 15 percent, respectively.
 - 2. For items indicated to receive a stained or natural finish, use organic resin chemical formulation.
 - 3. Mill lumber after treatment within limits set for wood removal that do not affect listed fire-test-response characteristics, using a woodworking shop certified by testing and inspecting agency.

2.3 CABINET HARDWARE AND ACCESSORIES

A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets, except for items specified in Division 08 Section "Door Hardware (Scheduled by Describing Products)."

- B. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
 - 1. Dark, Oxidized, Satin Bronze, Oil Rubbed: BHMA 613 for bronze base; BHMA 640 for steel base; match Architect's sample.
- C. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in BHMA A156.9.
- D. Concealed (European Type) Hinges: Clip170, Blum.
 - 1. Provide one pair for doors less than 4 feet high; and provide 1-1/2 pair for doors over 4 feet high.
- E. Pulls:
 - 1. Extruded Aluminum: Model #31830810 satin anodized aluminum, Richelieu.
- F. Catches: Roller catches, BHMA A156.9, B03071.
- G. Adjustable Shelf Standards and Supports: BHMA A156.9, B04102; with shelf brackets, B04112.
 - 1. Series 82 Heavy Duty Standards, with 182 Heavy Duty Brackets; Knape & Vogt.
 - 2. Color: As selected by Architect.
- H. Drawer Slides: BHMA A156.9, B05091.
 - 1. Heavy Duty (Grade 1HD-100 and Grade 1HD-200): Side mounted; full-overtravel-extension type; zinc-plated steel ball-bearing slides.
 - a. Drawers 42 in. [1067 mm] wide or less: Accuride 3640A all ball bearing slide, with rail/bracket mount, full extension + 1 in. [25 mm] over travel, hold-in detent, and 200 lbs./pr. [91 kg] load rating. Standard finish: clear zinc
- I. Door Locks: BHMA A156.11, E07121.
- J. Drawer Locks: BHMA A156.11, E07041.
- K. Grommets for Cable Passage through Countertops: 2-inch (51-mm) OD, black, molded-plastic grommets and matching plastic caps with slot for wire passage.
 - 1. Product: Subject to compliance with requirements, provide "SG series" by Doug Mockett & Company, Inc.
- L. Adjustable Shelf Supports:
 - 1. Concealed Shelves: Two-pin locking plastic shelf rests complying with BHMA A156.9, Type B04013. Shelf clips shall be injected molded clear plastic, with a double pin engagement 32mm on center and shall have 3/4" and 1" anti-tip locking tabs as approved in AWI 400B-T-9 for premium Grade.
 - a. #282.47.402, transparent, 5mm. Hafele.
 - 2. Exposed Shelves: #282.04.113, bronze, 5mm. Hafele.

- M. Bar Gaming Access Door Hardware:
 - 1. Continuous Hinge: Stainless Steel 304 Continuous Hinge with Holes, Unfinished, 0.042" Leaf Thickness, 2" Open Width, 3/32" Pin Diameter, 1/2" Knuckle Length.
 - 2. Locks: ANSI A156.11, Grade 2, solid brass, 6-pin cylinder, easily removable for quick and easy rekeying. Zinc lock body, 1-1/8" diameter, with steel bolts.
 - a. Door Cabinet Lock: Model #CL100PB, 1" bolt throw; Schlage, or equal.
 - b. Strike Plates: Model #CL10-354, 1/4" bar strike; Schlage, or equal. Provide strike plates for door locks.
 - c. Master key per cabinet unit, unless otherwise noted.
 - 3. Folding Lid Support: #CD432 Folding Lid Support, steel, bright brass finish; Stanley Hardware.
 - 4. Vent: Model #GT Metal Air Vent Grille; Doug Mockett & Company, Inc.
 - a. Size: MESH1, 4" by 12".
 - b. Finish: Matte black.
- N. Glass Sliding Door Hardware: Provide complete hardware and fasteners for sliding glass doors with key lock manufactured by Knape & Vogt or equal:
 - 1. Upper Channel: # 993, Knape & Vogt, or equal.
 - 2. Shoe: #995, Knape & Vogt, or equal.
 - 3. Carrier: #997, Knape & Vogt, or equal.
 - 4. Lower Track: #999, Knape & Vogt, or equal.
 - 5. End cap pushbutton cylinder sliding glass lock, with two keys.
 - 6. Tempered Float Glass for Sliding Doors: ASTM C 1048, Kind FT, Condition A, Type I, Class 1 (clear), Quality-Q3; with exposed edges seamed before tempering, 6 mm thick, or as indicated on Drawings.
- ** O. Pivot Door Slides: #8080EZ Series Pivot Door Slides; Knape & Vogt.
 - 1. 30-pound maximum per door.
 - 2. Designed to mount to side of case for pocket door mode.
 - 3. Maximum door dimension of 24" x 42".
 - 4. Self-closing three-way adjustable geometric door hinge with single lever disconnect feature.
 - 5. Precision steel ball bearings.
 - 6. Large follower strip mounting plate for rigidity and installation ease.
 - 7. Ebony Black electro-zinc plated lacquer finish.

2.4 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 nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.
- C. Adhesives, General: Do not use adhesives that contain urea formaldehyde.

- D. Adhesive for Bonding Plastic Laminate: Resorcinol.
 - 1. Adhesive for Bonding Edges: Hot-melt adhesive or adhesive specified above for faces.

2.5 FABRICATION, GENERAL

- A. Interior Woodwork Grade: Unless otherwise indicated, provide Premium-grade interior woodwork complying with referenced quality standard.
- B. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.
- C. Fabricate woodwork to dimensions, profiles, and details indicated. Ease edges to radius indicated for the following:
 - 1. Corners of Cabinets and Edges of Solid-Wood (Lumber) Members ³/₄ Inch (19 mm) Thick or Less: 1/16 inch (1.5 mm).
 - 2. Edges of Rails and Similar Members More Than ³/₄ Inch (19 mm) Thick: C inch (3 mm).
 - 3. Corners of Cabinets and Edges of Solid-Wood (Lumber) Members and Rails: 1/16 inch (1.5 mm).
- D. Complete fabrication, including assembly, finishing 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.
 - 1. Notify Architect seven days in advance of the dates and times woodwork fabrication will be complete.
 - 2. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.
- E. Shop-cut openings to maximum extent possible to receive hardware, appliances, plumbing fixtures, 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.
 - 1. Seal edges of openings in countertops with a coat of varnish.
- F. Install glass to comply with applicable requirements in Division 08 Section "Glazing" and in GANA's "Glazing Manual." For glass in wood frames, secure glass with removable stops.

2.6 INTERIOR STANDING AND RUNNING TRIM FOR TRANSPARENT FINISH

- A. Grade: Premium.
- B. Wood Species and Cut: As indicated.
- C. For trim items wider than available lumber, use veneered construction. Do not glue for width.
- D. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.
- E. Assemble casings in plant except where limitations of access to place of installation require field assembly.

F. Assemble moldings in plant to maximum extent possible. Miter corners in plant and prepare for field assembly with bolted fittings designed to pull connections together.

2.7 WOOD CABINETS FOR TRANSPARENT FINISH

- A. Grade: Premium.
- B. AWI Type of Cabinet Construction: Flush overlay.
- C. Wood Species and Cut for Exposed Surfaces:
 - 1. Species: White maple, plain sliced/plain sawn. Grain Direction: As indicated.
 - 2. Matching of Veneer Leaves: Book match.
 - 3. Vertical Matching of Veneer Leaves: End match.
 - 4. Veneer Matching within Panel Face: Center-balance match.
 - 5. Veneer Matching within Room: Provide cabinet veneers in each room or other space from a single flitch with doors, drawer fronts, and other surfaces matched in a sequenced set with continuous match where veneers are interrupted perpendicular to the grain.
 - 6. Comply with veneer and other matching requirements indicated for blueprint-matched paneling.
- D. Semiexposed Surfaces: Provide surface materials indicated below:
 - 1. Surfaces Other Than Drawer Bodies: Same species and cut indicated for exposed surfaces.
 - 2. Drawer Sides and Backs: Solid-hardwood lumber, stained to match species indicated for exposed surfaces.
 - 3. Drawer Bottoms: Thermoset decorative panels.

2.8 PLASTIC-LAMINATE CABINETS

- A. Grade: Premium.
- B. AWI Type of Cabinet Construction: Flush overlay.
- C. Laminate Cladding for Exposed Surfaces: High-pressure decorative laminate complying with the following requirements:
 - 1. Horizontal Surfaces Other Than Tops: Grade HGS.
 - 2. Postformed Surfaces: Grade HGP.
 - 3. Vertical Surfaces: Grade HGS.
 - 4. Edges: ABS edge banding,0.12 inch (3 mm) thick, matching laminate in color, pattern, and finish.
 - a. Rehau, (www.rehau.com) or Architect approved equal.
- D. Materials for Semiexposed Surfaces:
 - 1. Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
 - a. Edges of Plastic-Laminate Shelves: ABS edge banding,0.12 inch (3 mm) thick, matching laminate in color, pattern, and finish.
 - 1) Rehau, (<u>www.rehau.com</u>) or Architect approved equal.

- b. For semiexposed backs of panels with exposed plastic-laminate surfaces, provide surface of high-pressure decorative laminate, Grade CLS.
- 2. Drawer Sides and Backs: Thermoset decorative panels.
- 3. Drawer Bottoms: Thermoset decorative panels.
- E. Concealed Backs of Panels with Exposed Plastic Laminate Surfaces: High-pressure decorative laminate, Grade BKL.
- F. 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 indicated by laminate manufacturer's designations.
 - 2. **PL-**[#]: Plastic Laminate: Reference Section 090001 "Schedule of Finishes."
 - 3. ML-[#]: Metal Laminate: Reference Section 090001 "Schedule of Finishes."
- G. Provide dust panels of 1/4-inch (6.4-mm) plywood or tempered hardboard above compartments and drawers, unless located directly under tops.

2.9 PLASTIC-LAMINATE COUNTERTOPS:

- A. Quality Standard: Comply with AWI Section 400 requirements for countertops.
 - 1. Grade: Custom.
- B. Edge Treatment:
 - 1. ABS edge banding,0.12 inch (3 mm) thick, matching laminate in color, pattern, and finish
 - 2. Lumber edge for transparent finish matching wood species and cut on cabinet surfaces, as indicated on Drawings.
- C. Type of Top: High-pressure decorative laminate complying with the following:
 - 1. Grade: GP-50, 0.050-inch nominal thickness.
 - 2. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with paragraph "Plastic Laminate Cabinets" above.
 - 3. Core Material: Industrial grade medium density fiberboard (MDF) manufactured with formaldehydefree binder and meets ANSI A208.2.
 - a. Roseburg; "Medex," medium density fiberboard.
 - b. Flakeboard; "Premier Plus MR" medium density fiberboard.
 - 4. Backer Sheet: Provide plastic-laminate backer sheet, Grade BKL, on underside of countertop substrate.
- D. 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 indicated by laminate manufacturer's designations.
 - 2. PL-[#]: Plastic Laminate: Reference Section 090001 "Schedule of Finishes."
 - 3. ML-[#]: Metal Laminate: Reference Section 090001 "Schedule of Finishes."

2.10 SHOP FINISHING

- A. Grade: Provide finishes of same grades as items to be finished.
- B. General: Finish architectural woodwork at fabrication shop as specified in this Section. Defer only final touchup, cleaning, and polishing until after installation.
- C. General: Shop finish transparent-finished interior architectural woodwork at fabrication shop as specified in this Section. Refer to Division 09 painting Sections for finishing opaque-finished architectural woodwork.
- D. General: Drawings indicate items that are required to be shop finished. Finish such items at fabrication shop as specified in this Section. Refer to Division 09 painting Sections for finishing architectural woodwork not indicated to be shop finished.
- E. Shop Priming: Shop apply the prime coat including backpriming, if any, for transparent-finished items specified to be field finished. Refer to Division 09 painting Sections for material and application requirements.
- F. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing architectural woodwork, as applicable to each unit of work.
 - 1. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling and to end-grain surfaces. Concealed surfaces of plastic-laminate-clad woodwork do not require backpriming when surfaced with plastic laminate, backing paper, or thermoset decorative panels.
- G. Transparent Finish:
 - 1. Grade: Premium.
 - 2. AWI Finish System: Catalyzed polyurethane.
 - 3. Staining:
 - a. **ST-1**: Match Architect's sample.
 - b. **ST-2**: Match Architect's sample.
 - c. **ST-3**: Match Architect's sample.
 - d. **ST-4**: Match Architect's sample.
 - 4. Wash Coat for Stained Finish: Apply wash-coat sealer to woodwork made from closed-grain wood before staining and finishing.
 - 5. Open Finish for Open-Grain Woods: Do not apply filler to open-grain woods.
 - 6. Sheen: Gloss, 61-100 gloss units measured on 60-degree gloss meter per ASTM D 523.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas.
- B. Before installing architectural woodwork, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

3.2 INSTALLATION

- A. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
- B. Assemble woodwork and complete fabrication at Project site to comply with requirements for fabrication in Part 2, to extent that it was not completed in the shop.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
- D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.
- F. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than 96 inches (2400 mm) long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members.
 - 1. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base if finished.
 - 2. Install wall railings on indicated metal brackets securely fastened to wall framing.
 - 3. Install standing and running trim with no more variation from a straight line than 1/8 inch in 96 inches (3 mm in 2400 mm).
- G. 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. Maintain veneer sequence matching of cabinets with transparent finish.
 - 3. Fasten wall cabinets through back, near top and bottom, at ends and not more than 16 inches (400 mm) o.c. with toggle bolts through metal backing or metal framing behind wall finish.
- H. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.
 - 1. Install countertops 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. Secure backsplashes to tops with concealed metal brackets at 16 inches (400 mm) o.c. and to walls with adhesive.
 - 3. Calk space between backsplash and wall with sealant specified in Division 07 Section "Joint Sealants."
- I. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.
- J. Refer to Division 09 Sections for final finishing of installed architectural woodwork not indicated to be shop finished.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective woodwork, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean woodwork on exposed and semiexposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION 064023

SECTION 087100 DOOR HARDWARE

PART 1 - GENERAL

1.01 WORK INCLUDED

The work in this section shall include the furnishing of all items of door hardware as hereinafter specified, or obviously necessary to complete the building, except those items which are specifically excluded from this section of the specification.

1.02 DESCRIPTION OF WORK

Door Hardware - Hardware used in building construction but particularly that used on or in connection with doors and frames, cabinets and other movable members. It also has a finished appearance as well as functional purpose and may be considered as a part of the decorative treatment of a room or building.

1.03 RELATED WORK

- A. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these specifications.
- B. Related Sections:

Section 081000 - Steel Doors and Frames Section 081000 – Standard Steel Frames Section 082100 – Flush Wood Doors Section 083300 - Coiling Doors and Grilles

1.04 COORDINATION

A. Schedule coordination meeting to clarify sub-contractor and supplier requirements to provide a complete and functioning access control system.

1.05 QUALITY ASSURANCE

- A. Hardware has been specified herein by manufacturer's name, brand and catalog numbers for the purpose of establishing a basis for quality, finish, design and operational function. To insure a uniform basis of acceptable material, it is the intention that only manufacturer's items specified as "Acceptable and Approved" be furnished for use on this project. Obtain each type of hardware (latch and lock sets, hinges, exit devices closers) from single manufacturer, although several may be indicated as offering products complying with requirements.
- B. *Substitutions:* Request for substitutions of items of hardware not listed as "Acceptable and Approved" shall be made to the Architect no later than ten (10)

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- C. Underwriters' Laboratories Requirements: Hardware for openings classed as requiring a UL label in the door schedule, or by code, shall be furnished and installed to meet the applicable requirements of NFPA 80. Hardware shall be UL listed for usage with types and sizes of fire doors specified and scheduled. Products tested shall meet requirements of UBC 7-2-1997 / UL10C
- D. *Accessibility Standards:* Hardware shall be in conformance with Article 9102, Texas Civil Statutes, Elimination of Architectural Barriers Act of Texas.
 - 1. Door Closers: The sweep period of closers shall be adjusted so that from an open position of 90 degrees, the door will take at least five seconds to move to an open position of approximately 12 degrees.
 - 2. The maximum force for pushing or pulling open door shall be as follows:
 - a. Exterior hinged doors: Not to exceed 8.5 lbf.
 - b. Sliding, folding, and interior hinged doors: Not to exceed 5 lbf.
 - c. Fire doors: Adjusted to meet minimum closing force permitted by governing fire safety standards.
- E. *Federal Accessibility Standards:* Hardware shall be in accordance will all requirements of the Americans With Disabilities Act 1990.
- F. Supplier: A recognized builders hardware supplier who has been furnishing hardware in the project's vicinity for a period of not less than two (2) years, and who is, or has in employment, a Hardware Consultant (AHC) in good standing as certified by the Door and Hardware Institute. This consultant shall have experience in the preparation of architectural hardware specifications, estimating, detailing, ordering, servicing of architectural hardware in all its branches and will be available at reasonable times during the course of the work for project hardware consultation to the Owner, Architect and Contractor. It is the hardware distributor's responsibility to coordinate the hardware specified to work with the Aluminum doors.
- G. *Pre-Installation Instructional Meeting:* Contractor shall schedule and hold a preinstallation meeting that includes the Contractor, the Architect and/or his chosen representative, the Hardware Supplier, and all installers of hardware. Instructional meeting shall be conducted by the Hardware Supplier, covering proper installation of all items of hardware to be incorporated into the Project.
- H. *Installer:* Firm with a minimum of five years of documented experience in installing the types and grade of hardware being incorporated into the Project. Three written

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references from Construction Administrators of previous projects required for the Architect's review before installation Contract or Subcontract is executed.

- I. Prototype Installations: One of each type of the following hardware installations shall be performed to the Architect's (and/or his designated representative's) approval before any installations of like-type applications are performed:
 - 1. One exterior door pair with exit devices
 - 2. One exterior single door with an exit device
 - 3. One single classroom door
 - 4. One interior pair of doors with vertical rod exit devices

1.06 REFERENCES

A. Door Hardware in this section shall meet the following as established by the American National Standards Institute, Inc. (ANSI) which is sponsored by the Builders Hardware Manufacturers Association, Inc., (BHMA). Product tests are to be administered by the ETL Testing Laboratories, Inc., or other official testing laboratories which have been designed by BHMA for the testing of ANSI standards latest revision will be in effect.

Materials and Finishes	BHMA 1301
Butts and Hinges	ANSI A156.1
Locks and Lock Trim	ANSI A156.2
Exit Devices	ANSI A156.3
Door Controls-Closers	ANSI A156.4
Auxiliary Lock & Assoc. Products	ANSI A156.5
Architectural Door Trim	ANSI A156.6
Template Hinge Dimensions	ANSI A156.7
Door Controls-Overhead Holders	ANSI A156.8
Mortise Locks and Latches	ANSI A156.13
	Butts and Hinges Locks and Lock Trim Exit Devices Door Controls-Closers Auxiliary Lock & Assoc. Products Architectural Door Trim Template Hinge Dimensions Door Controls-Overhead Holders

C. *Listed Hardware:* Hardware which is to be installed in or on fire labeled doors and frames, Class A or lesser, single or pairs shall be tested and listed by Underwriters Laboratories and/or Warnock Hersey Fire Laboratories Division. Exit devices which are to be used as panic hardware shall be tested and listed in Underwriters Laboratories "Accident Equipment List-Panic Hardware". All listed hardware shall be in compliance with National Fire Protection Association (NFPA) Standard Number 80 IBC current year adopted and be properly stamped or labeled for easy identification.

1.07 SUBMITTALS

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- A. The door hardware supplier shall, after award of a formal contract, submit to the Architect, six (6) complete typewritten copies of the proposed Door Hardware Schedule for approval. This schedule shall be prepared using the "Sequence and Format for the Hardware Schedule" as approved and recommended by the Door and Hardware Institute (DHI).
- B. When submitting schedules for approval, include six (6) copies of cut sheets on each hardware item proposed. Index it with the use of number or letters or a combination of both, with the hardware schedule. The index numbers/letters are to be in the right hand column on the same line as the respective manufacturer's numbers shall be indexed even when appearing more than once.
- C. Samples: As part of this contract, if requested, the hardware supplier shall provide the Architect with one sample of each item of door hardware that is to be furnished for this project.
- D. *Templates:* The hardware supplier shall provide necessary templates and/or physical hardware to all trades requiring them in order that they may cut, reinforce or otherwise prepare their material or product to receive the hardware item. If physical hardware is required by any manufacturer, the hardware supplier shall ship to them such hardware via prepaid freight in sufficient time to prevent any delay in the execution of their work.

1.08 DELIVERY, STORAGE AND HANDLING

- A. All items of hardware to be delivered to the jobsite shall be completely packaged with all necessary screws, bolts, miscellaneous parts, instructions and where necessary installation templates for manufacturer's suggested installation. They are to be clearly labeled as to conveniently identify them and their intended location in the building.
- B. A representative of the General Contractor shall receive the hardware when delivered at the jobsite. A dry locked storage space complete with shelving, shall be set aside for the purpose of unpacking, sorting out, checking and storage.
- C. Door Hardware shall be delivered to the General Contractor by the hardware supplier. Direct factory shipments to the jobsite are not acceptable.
- D. The hardware shall be jointly inventoried by representatives of the General Contractor and the Hardware Supplier.
- E. Items damaged in shipment shall be replaced promptly and with proper material without additional cost to the General Contractor.
- F. All hardware shall be handled in a manner to minimize marring, scratching or damage.

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G. Store and handle all materials strictly according to the manufacturer's instructions.

1.09 WARRANTY

Door Closers shall carry a limited warranty against defects in workmanship and operation for a period of five (5) years from the date of acceptance. The balance of door hardware shall carry a limited warranty against defects in workmanship and operation for a period of one (1) year from date of acceptance. No liability is to be assumed where damage or faulty operation is due to abuse, improper usage, improper installation or failure to exercise normal maintenance.

PART 2 - PRODUCTS

2.01 FINISH OF HARDWARE

- A. Finish of items shall be as specified under the door hardware sets of this section.
- B. The finish of items not specially mentioned above nor set forth in the schedule shall be US26D, unless shown otherwise.

2.02 HINGES

- A. *Template Hinges:* Provide only template hinges which conform to ANSI A156.7.
- B. Use five-knuckle ball bearing hinges, as indicated in the hardware sets, on heavy doors, doors where high frequency service is expected, doors equipped with door closers, and all labeled doors. (Oil impregnated bearing hinges are not acceptable.)
- C. All hinges to be used on exterior doors or doors subject to special atmospheric conditions, (pool areas, chemical laboratories, sewage disposal plants, etc.) shall be of non-ferrous material, brass, bronze or stainless steel.
- D. Hinge pins, except as otherwise indicated, shall be as follows:
 - 1. Steel hinges: Steel pins
 - 2. Non-ferrous hinges: Stainless steel pins
- E. Sizes of hinges shall be as follows:

Door Thickness	Hinge	Hinge
and Width	Height	Width
1 3/4" to 36"	41/2	41/2

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F. Number of hinges per door, provided quantities as follows:

For doors less than 5 feet high: 1 pair For doors 5 feet to 7 feet 6 inches high: 1 1/2 pair and additional hinge for each additional 2 1/2 feet or fraction thereof.

- G. Where projection of door trim is such as to prevent degree of opening, the proper hinge width shall be provided to allow the door to clear the trim.
- H. Provided above criteria are met, Acceptable and Approved as follows:

<u>Ives</u> <u>Hager</u> Bommer

I. Continuous Hinges shall be type scheduled and as manufactured by one of the following. Coordinate hinge type with Aluminum door supplier.

<u>ABH</u> <u>Ives</u> Hager

2.03 KEYING

A. All locks and cylinders shall be restricted keyway as instructed by Owner to match existing key system. Stamp all keys with "Do Not Duplicate" on one side and key symbol on the other side. A keying meeting is required prior to ordering cylinders for this project. Submit a separate keying submittal for review and approval. Furnish "3" Change keys Each Lockset Furnish "6" Building Master Keys Furnish "6" Building Master Keys Furnish "10" Construction Master Keys Furnish "2" Temp core removal keys Furnish "2" Permanent core installation keys All permanent keys to be delivered to Owner.

2.04 MORTISE LOCKS

A. Locks shall have all functions available in one size case, manufactured from heavy gauge steel, minimum thickness of 3/32", complete chrome plated for corrosion resistance and lubricity of parts. Cases are to be closed on all sides to protect internal parts. Locks are to have adjustable, beveled and armored fronts, standard 2 3/4" backset, a full 3/4" throw two-piece mechanical anti-friction latchbolt, a one-piece stainless steel 1" throw deadbolt, and shall be available for a minimum door

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thickness of 1 3/8". Internal parts shall be heavy gauge steel, zinc dichromate plated for corrosion resistance.

- B. All locksets with latchbolts, regardless of trim, shall be listed by Underwriters Laboratories for A label and less class doors, 4' x 8' single or 8' x 8' pair.
- C. Lock trim (knob, lever, sectional or escutcheon) shall be throughbolted through the lock case to assure correct alignment and proper operation.
- D. Locksets shall conform to Federal Specification FF-H-106C, and be certified as meeting ANSI A156.13 Series 1000, Grade 1 requirements, ANSI A117.1, Accessibility Code (lever handle trim), and California State Reference Code, 1989 (formerly Title 19, California State Fire Marshall Standard) (lever handle trim).
- E. Acceptable and Approved: No Substitutions

<u>Schlage</u>

2.05 EXIT DEVICES

LOW PROFILE PUSH BAR EXIT DEVICES

- A. The maximum exit device projection shall be a maximum of 3-1/16" when activated. The exit device bar shall have an average minimum thickness of .201". The pushpad surface shall be constructed of stainless steel; pushpads with plastic or Lexan coatings shall not be acceptable. Nylon bearings and stainless steel springs shall be used for long life and durability. Only torsion or compression springs are acceptable. Extension type springs are not acceptable. All device covers shall be of cast brass, deep drawn steel or stainless steel. Latchbolts shall be of stainless steel and shall have a deadlocking latch for extra security, except at full-glass or two-light glass doors requiring narrow stile device. Mounting screws shall be concealed to deter tampering. All ferrous parts shall be zinc coated to prevent rusting.
- B. Single point, one quarter turn hex dogging shall be standard on panic listed devices. Optional key cylinder dogging shall be available, and furnished if so indicated in the hardware sets, on panic listed devices. Devices with hex key dogging shall be easily field converted to cylinder dogging.
- C. All devices shall be listed by Underwriters Laboratories for safety as panic hardware. Fire rated devices shall be UL listed for A label and lesser class doors, 4' x 8' single and 8' x 8' pair. The model number shall be located on the end cap; devices having the model number located other than on the end cap shall not be acceptable.

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- D. All exit devices shall have a unitized installation feature and may be cut in the field to size. Devices shall be closed on all sides with no pinch points. The pushpad shall be designed to prevent pinching of the fingers when depressed.
- E. Exit Device trim to be throughbolted. Lever trim to be heavy duty forged escutcheon with free wheeling levers.
- F. All exit devices shall conform to Federal Specification FF-H-1820, and be certified as meeting ANSI A156.3, Grade 1 requirements.
- G. Acceptable and Approved: **No Substitutions**

Von Duprin

2.06 DOOR CLOSERS

- A. Closers shall be rack and pinion construction. They shall be non-sized with adjustable spring power. Closing the door shall be controlled by two valves, one to control closing and one to control latching speed. Closers shall be regularly furnished with fully adjustable backcheck and a backcheck selector valve allowing approximate 70 degree backcheck on both regular and parallel arm closers. Delayed action shall be available. Valves shall be concealed against unauthorized adjustment and be non-critical needle valve type. Closers shall be mounted out of line of sight wherever possible (i.e., room side of corridor doors, etc.) with parallel arm mounting on out swing doors. Mount closers top jamb or on brackets and/or drop plates where special conditions exist. Include cost for any required special templates.
- B. Closers shall be certified as meeting the ANSI A156.4, Grade 1 requirements and be listed by Underwriters Laboratories for all classes of labeled doors.
- C. Door Closers shall be furnished on all labeled doors.
- D. Acceptable and Approved: **No Substitutions**

<u>LCN</u>

2.07 OVERHEAD STOPS AND HOLDERS

- A. Furnish overhead stops or holders of the weight, functions and materials indicated in the hardware sets.
- B. Overhead stops or holders shall be manufactured entirely of metallic components. Units containing plastic, nylon, or similar materials are not acceptable.

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C. Acceptable and Approved as follows:

ABH Manufacturing Glynn Johnson

2.08 TRIM/KICK PLATES/DOOR STOPS

- A. All door protection plates to be manufactured of .050" stainless steel. Protection plates to be furnished 2" less than door width on single doors and 1" less than door width on pairs of doors.
- B. Wall mounted door stops shall be provided where door leaves will strike a wall at the end of their opening cycle. If other conditions exist, furnish floor stops or overhead stops as required.
- C. Acceptable and Approved as follows:

Trimco/Quality Baldwin Ives

2.09 WEATHERSTRIP/THRESHOLDS/SMOKE SEALS

- A. Provide weatherstrip, thresholds, and/or sound seals for each opening as scheduled. Review Sill detail on Architectural drawings and furnish threshold type required.
- B. Provide smoke seal (including meeting stile seal for door pairs) for all fire rated doors. All smoke seal and astragals shall be listed by either Underwriters Laboratory or Warnock-Hersey as Category "H" Smoke and Draft Control Gasket under the testing protocols of UBC Standard 7-2 1997, Part 2 and/or UL1784. All smoke seal and astragals shall, additionally, comply with the door manufacturer's listing under the same protocols.
- C. Acceptable and Approved as follows:

National Guard Pemko Zero

PART 3 - EXECUTION

3.01 INSTALLATION

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- A. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware" for (Standard Steel Doors and Frames) by the Door and Hardware Institute (DHI), except if otherwise specifically indicated or to comply with requirements of governing regulations, requirements for the handicapped, or if otherwise directed by the Architect.
- B. All hardware shall be installed by a tradesman skilled in the application of commercial grade hardware.
- C. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Securely fasten all parts to be attached. Fit faces of mortise parts snug and flush. Make sure all operating parts move freely and smoothly without binding, sticking or excessive clearance. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, the hardware shall be removed and stored prior to the painting or finishing. Items shall then be reinstalled only when the finished have been completed on the surface to which the hardware is to be applied.
- D. At exterior doors and elsewhere as indicated, set thresholds in a bed of sealant as specified in Section 07900 to completely fill concealed voids and excluded moisture from every source. Do not plug drain hole or block weeps. Remove excess sealant.
- E. After installation, representative templates, instruction sheets and installation details shall be placed in a file folder to be turned over to the Owner when building is accepted. Included shall be at least five (5) each of any special adjusting and/or installation tools furnished with the hardware by the manufacturers.

PART 4 - SCHEDULES

4.01 HARDWARE SETS

Hardware Group No. 001

For use on mark/door #(s): 100 100A 204

Provide each PR door(s) with the following:

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1 NOTE

HARDWARE BY DOOR MANUFACTURER

Hardware Group No. 002

For use on mark/door #(s): 103K

Provide each SL door(s) with the following:

1 NOTE

HARDWARE BY DOOR MANUFACTURER

Hardware Group No. 003

For use on mark/door #(s): 102B Deleted 104A 144B 126B Added Provide each RU door(s) with the following:

1	EA	MORTISE CYLINDER	20-059 TYPE AS REQ	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1		NOTE	HARDWARE BY DOOR		
			MANUFACTURER		

Hardware Group No. 103

For use on mark/door #(s): 214

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 201

DOOR HARDWARE	087100-11
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For use on mark/door #(s): 114 122 124 138 215

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-	BK	ZER
			RATED DOORS)		

Hardware Group No. 207

For use on mark/door #(s):

115 133A

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 212SW

For use on mark/door #(s): 149 149A

Provide each PR door(s) with the following:

6	EA	HINGE	5BB1 5 X 4.5	652	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	L9080T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
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1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-	BK	ZER
			RATED DOORS)		

Hardware Group No. 301

For use on mark/door #(s): 148

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 06A	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-	BK	ZER
			RATED DOORS)		

Hardware Group No. 501

For use on mark/door #(s): 126A

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 700

For use on mark/door #(s): 143 144

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Provide each PR door(s) with the following:

			-		
2	EA	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	9949/50-L-06 (WDC @ WD) LENGTH & HEIGHT AS REQ	626	VON
2	EA	RIM HOUSING	20-079	626	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 700A

For use on	mark/door #(s):	
103G	103H	103J

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	9949/50-L-06 (WDC @ WD) LENGTH &	626	VON
			HEIGHT AS REQ		
2	EA	RIM HOUSING	20-079	626	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
1	SET	SEAL	PERIMETER SEAL BY FRAME		
			MANUFACTURER		
1	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR		
			MANUFACTURER		

Hardware Group No. 700C

For use on mark/door #(s): 154

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	9949/50-L-06 (WDC @ WD) LENGTH &	626	VON
			HEIGHT AS REQ		
2	EA	RIM HOUSING	20-079	626	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
DOOI	R HAR	DWARE	087100-14		
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2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
-		PROTECTION PLATE SILENCER	8400 10" X 1" LDW B-CS SR64	630 GRY	IVE IVE

Hardware Group No. 700H

For use on mark/door #(s): 204A

Provide each PR door(s) with the following:

			0		
2	EA	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	9949/50-L-06 (WDC @ WD) LENGTH & HEIGHT AS REQ	626	VON
2	EA	RIM HOUSING	20-079	626	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2 2	EA EA	WALL STOP/HOLDER SILENCER	WS40 SR64	626 GRY	IVE IVE
2	EA	SILENCER	3104	GRI	IVE

Hardware Group No. 701

For use on mark/door #(s): 134 deleted 218 217 Added to this hardware Provide each SGL door(s) with the following: 1 EA CONT. HINGE 112HD

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	99-L-06 LENGTH AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 714

For use on mark/door #(s):

DOOR HARDWARE	087100-15
Project No: H17018	6/27/2018

135A 135B 155

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	9949/50-EO LENGTH & HEIGHT AS REQ	626	VON
1	EA	PANIC HARDWARE	9949/50-NL LENGTH & HEIGHT AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR &	689	LCN
			PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	GASKETING	328AA H & J	AA	ZER
1	EA	ASTRAGAL	328AA (2 PCS - 1 SET) HEIGHT AS	AL	ZER
			REQUIRED		
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	А	ZER

Hardware Group No. 714A

For use on mark/door #(s): 118 118A

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	9949/50-EO LENGTH & HEIGHT AS REQ	626	VON
1	EA	PANIC HARDWARE	9949/50-NL LENGTH & HEIGHT AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR &	689	LCN
			PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	SET	SEAL	PERIMETER SEAL BY FRAME		
			MANUFACTURER		
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR		
			MANUFACTURER		
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	А	ZER

Hardware Group No. 725

For use on mark/door #(s): 157

DOOR HARDWARE Project No: H17018 087100-16 6/27/2018

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	99-EO LENGTH AS REQ	626	VON
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR &	689	LCN
			PLATE AS REQ X ST3596		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	GASKETING	328AA H & J	AA	ZER
1	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	А	ZER

Hardware Group No. 800AV

For use on mark/door #(s):

118B 118C

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	DUMMY PUSH BAR	330 LENGTH AS REQ	626	VON
2	EA	90 DEG OFFSET PULL	8190-O 10"	630	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		
1	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR MANUFACTURER		

Hardware Group No. 800V

For use on mark/door #(s): 135C 135D

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	DUMMY PUSH BAR	330 LENGTH AS REQ	626	VON
2	EA	90 DEG OFFSET PULL	8190-O 10"	630	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR &	689	LCN
			PLATE AS REQ X ST3596		
1	EA	GASKETING	328AA H & J	AA	ZER
1	EA	ASTRAGAL	328AA (2 PCS - 1 SET) HEIGHT AS	AL	ZER
			REQUIRED		

DOOR HARDWARE Project No: H17018 087100-17 6/27/2018

Hardware Group No. 801

For use on mark/door #(s):

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. B700CH

For use	on mark/door #(s):	
103	103A	103B

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	3349A-L-06 LENGTH AS REQ	626	VON
2	EA	MORTISE CYLINDER	20-059 TYPE AS REQ	626	SCH
2	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SHCUSH X MTG BRKT,	689	LCN
			SPACER & PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. C201

For use on mark/door #(s):							
108	108A	112	127	130	130A		
133	136	137	147	150	151		
200	205	206	207	212	212A		
216	219						

Provide each SGL door(s) with the following:

2	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH

DOOR HARDWARE	087100-18
Project No: H17018	6/27/2018

1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-	BK	ZER
			RATED DOORS)		
1	EA	HARNESS (TO POWER	CON-192P		SCH
		SUPPLY)			
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER		
			BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH		VON
			AS REQ		

Hardware Group No. C201C

For use on mark/door #(s): 102A 113A

Provide each SGL door(s) with the following:

-			5		
2	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. C201W

For use on mark/door #(s): 113 DOOR HARDWARE Project No: H17018

087100-19 6/27/2018

Provide each SGL door(s) with the following:

			0		
2	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	HINGE	5BB1HW 5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. C207

For use on mark/door #(s):									
102		104	117	145	202				
117A Door added									
Provide each SGL door(s) with the following:									
2	EA	HINGE	5	5BB1 4.5 X 4.5			652	IVE	
1	EA	HINGE	5	BB1 4.5 X 4.5 CON	TW8		652	IVE	
1	EA	EU MORTISE L	LOCK L	.9092TEU 06A RX (F	AIL SECURE)		626	SCH	
1	EA	FSIC CORE		23-030 PERMANENT			626	SCH	
1	EA	OH STOP	g	000S SERIES X SIZE	& MOUNTING A	٩S	630	GLY	
			F	REQ					
1	EA	SURFACE CLC	OSER 4	040XP OR P4040XF	Y MTG BRKT,		689	LCN	
				SPCR & PLATE AS R					
1	EA	PROTECTION	PLATE 8	3400 10" X 2" LDW B	-CS		630	IVE	
1	EA	GASKETING	1	88S H & J (USE SIL	ENCERS @ NOI	N-	BK	ZER	
				RATED DOÒRS)					
1	EA	HARNESS (TO	POWER C	CON-192P				SCH	
		SUPPLY)							
1	EA	CREDENTIAL I	READER (CARD READER BY A	NOTHER SECT	ION			
1	EA	DOOR CONTA	СТ 6	79-05 TYPE AS REC	Ç		WHT	SCE	
1	EA	POWER SUPP	LY F	POWER SUPPLY FO	R CARD READE	ĒR			
			E	BY ANOTHER SECT	ION				
1	EA	POWER SUPP	LY F	PS902			LGR	SCE	
1	EA	HARNESS (IN	DOOR) A	ALLEGION CONNEC	T TYPE & LENG	TH		VON	
AS REQ									
DOOR HARDWARE 087100-20									
	Project No: H17018 6/27/2018								
PIOJECC NO: HI/UIO 0/2//2010									

Hardware Group No. C710

For use on mark/door #(s):										
103C		103D	103E	103F	103L	120				
120A		135	153							
D										
Provide each PR door(s) with the following:										
-	EA	HINGE		5BB1HW 4.5 X 4.5		652	IVE			
2	EA	POWER TRANSFER		EPT10 CON	689	VON				
1 EA ELEC PANIC		RX-QEL-9949/50-DT-CON LENGTH & 626			VON					
		HARDWARE		HEIGHT AS REQ						
1	EA	A ELEC PANIC		RX-QEL-9949/50-NL-CON LENGTH &		626	VON			
		HARDWARE		HEIGHT AS REQ						
1	EA	RIM HOUSING		20-079		626	SCH			
1	EA	FSIC CORE		23-030 ICX CONSTRU	CTION CORE	622	SCH			
1	EA	FSIC CORE		23-030 PERMANENT (CORE	626	SCH			
2 EA SURFACE CLOSER		4040XP OR P4040XP 2	X MTG BRKT,	689	LCN					
				SPCR & PLATE AS RE	Q X ST3596					
2	EA	PROTECTION PLA	λΤΕ	8400 10" X 1" LDW B-0	CS	630	IVE			
2	EA	WALL STOP		WS406/407CCV		630	IVE			
2	EA	SILENCER		SR64		GRY	IVE			
2	EA	HARNESS (TO PC	WER	CON-192P			SCH			
		SUPPLY)								
1	EA	CREDENTIAL REA	DER	CARD READER BY AN	NOTHER SECTION	1				
2	EA	DOOR CONTACT		679-05 TYPE AS REQ		WHT	SCE			
1	EA	POWER SUPPLY		POWER SUPPLY FOR	CARD READER					
				BY ANOTHER SECTIC)N					
1	EA	POWER SUPPLY		PS902 2RS			VON			
2	EA	HARNESS (IN DO	OR)	ALLEGION CONNECT	TYPE & LENGTH		VON			
		``	,	AS REQ						

Hardware Group No. C710C

For use on mark/door #(s): 152

Provide each PR door(s) with the following:

	6	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
	2	EA	POWER TRANSFER	EPT10 CON	689	VON
	1	EA	ELEC PANIC	RX-QEL-9949/50-DT-CON LENGTH &	626	VON
			HARDWARE	HEIGHT AS REQ		
	1	EA	ELEC PANIC	RX-QEL-9949/50-NL-CON LENGTH &	626	VON
			HARDWARE	HEIGHT AS REQ		
	1	EA	RIM HOUSING	20-079	626	SCH
	DOOF	R HARI	087100-21			
Project No: H17018					6/27/2018	
	-	-				

1 1	EA EA	FSIC CORE FSIC CORE	23-030 ICX CONSTRUCTION CORE 23-030 PERMANENT CORE	622 626	SCH SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE
2	EA	HARNESS (TO POWER	CON-192P		SCH
		SUPPLY)			
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER		
			BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH		VON
			AS REQ		

Hardware Group No. C710R

For use on mark/door #(s):

156

Provide each PR door(s) with the following:

	40 04011		.9.		
6	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC FIRE EXIT	RX-QEL-9949/50-DT-F-LBR-CON (WDC	626	VON
		HARDWARE	@ WD) LENGTH & HEIGHT AS REQ		
1	EA	ELEC FIRE EXIT	RX-QEL-9949/50-NL-F-LBR-CON (WDC	626	VON
		HARDWARE	@ WD) LENGTH & HEIGHT AS REQ		
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	MEETING STILE	328AA (2 PCS - 1 SET) HEIGHT AS	AA	ZER
			REQUIRED		
1	EA	GASKETING	188S H & J	BK	ZER
2	EA	HARNESS (TO POWER	CON-192P		SCH
		SUPPLY)			
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER		
			BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 FA 2RS		VON
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH		VON
			AS REQ		

DOOR HARDWARE Project No: H17018 Hardware Group No. C710S3

For use on mark/door #(s): 153A

Provide each PR door(s) with the following:

6	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC	RX-QEL-9949/50-DT-CON LENGTH &	626	VON
		HARDWARE	HEIGHT AS REQ		
1	EA	ELEC PANIC	RX-QEL-9949/50-NL-CON LENGTH &	626	VON
		HARDWARE	HEIGHT AS REQ		
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS	630	GLY
			REQ		
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE
2	EA	HARNESS (TO POWER	CON-192P		SCH
		SUPPLY)			
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER		
			BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH		VON
			AS REQ		

Hardware Group No. C711

For use on mark/door #(s): 146 134 Added to this hardware Provide each SGL door(s) with the following: 3 EA 652 IVE HINGE 5BB1HW 4.5 X 4.5 POWER TRANSFER VON 1 EA EPT10 CON 689 1 EA ELEC PANIC **RX-QEL-99-NL-CON LENGTH AS REQ** 626 VON HARDWARE 1 EA **RIM HOUSING** 20-079 626 SCH ΕA FSIC CORE 23-030 ICX CONSTRUCTION CORE 622 SCH 1 1 EA FSIC CORE 23-030 PERMANENT CORE SCH 626 DOOR HARDWARE 087100-23 6/27/2018 Project No: H17018

1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	HARNESS (TO POWER	CON-192P		SCH
		SUPPLY)			
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER		
			BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH		VON
			AS REQ		

Hardware Group No. C714

For use on m	ark/door #(s):	
134A	143A	144A

Provide each PR door(s) with the following:

11011			9.		
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC	RX-QEL-9949/50-DT-CON LENGTH &	626	VON
		HARDWARE	HEIGHT AS REQ		
1	EA	ELEC PANIC	RX-QEL-9949/50-NL-CON LENGTH &	626	VON
		HARDWARE	HEIGHT AS REQ		
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR	& 689	LCN
			PLATE AS REQ X ST3596		
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	MEETING STILE	328AA (2 PCS - 1 SET) HEIGHT AS	AA	ZER
			REQUIRED		
1	EA	GASKETING	328AA H & J	AA	ZER
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	А	ZER
2	EA	HARNESS (TO POWER	CON-192P		SCH
		SUPPLY)			
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTI	ON	
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READE	R	
			BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENG	ГН	VON
			AS REQ		
	о нур			087100-24	
DOOR HARDWARE 087100-24 Project No: H17018 6/27/2018					
Project No: H1/018 0/2//2018					

Hardware Group No. W401HW

For u	For use on mark/door #(s):						
106		109 128	131				
Provi	de each	n SGL door(s) with the follo	wing:				
3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE		
1	EA	MULT PT PASSAGE SET	LM9310 06A	626	SCH		
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE		
1	EA	WALL STOP/HOLDER	WS40	626	IVE		
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER		

Hardware Group No. W501W

For use on mark/door #(s): 126

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	MULT PT CLASSROOM	LM9370T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN
			SPCR & PLATE AS REQ X ST3596		
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-	BK	ZER
			RATED DOORS)		

Hardware Group No. W507

For use on mark/door #(s): 142

Provide each SGL door(s) with the following:

3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE	
1 EA	MULT PT CLASSROOM	LM9370T 06A	626	SCH	
DOOR HARDWARE 087100-25 Project No: H17018 6/27/2018					

1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. W700H

For use on mark/door #(s): 139

Provide each PR door(s) with the following:

2	-/ •	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	WS-9927-L-06 LENGTH AS REQ	626	VON
1	EA	ROD AND LATCH GUARD	RG-27-	630	VON
2	EA	RIM HOUSING	20-079	626	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP/HOLDER	WS40	626	IVE
2	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. W701H

For use on mark/door #(s): 139A

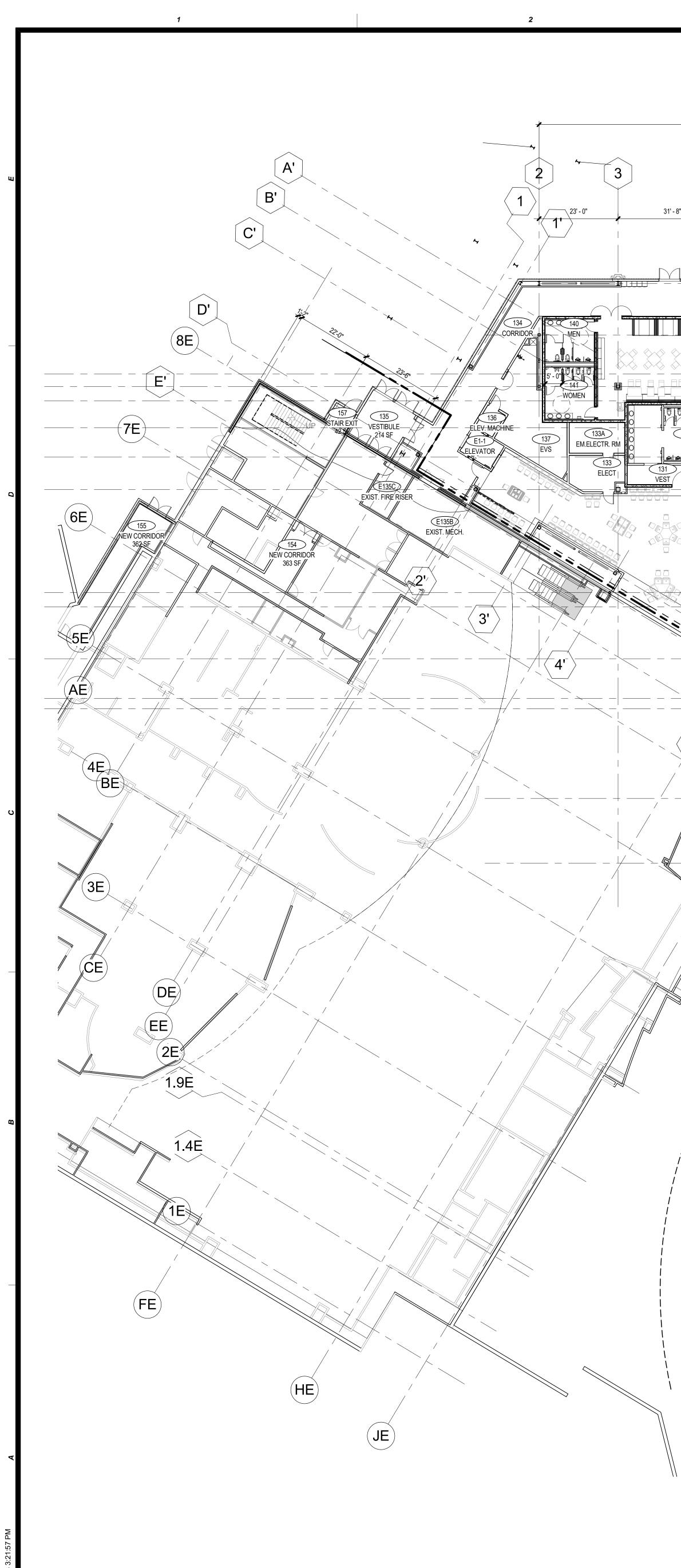
Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE	
1	EA	PANIC HARDWARE	WS-9927-L-06 LENGTH AS REQ	626	VON	
1	EA	ROD AND LATCH GUARD	RG-27-	630	VON	
1	EA	RIM HOUSING	20-079	626	SCH	
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH	
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT,	689	LCN	
			SPCR & PLATE AS REQ X ST3596			
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE	
1	EA	WALL STOP/HOLDER	WS40	626	IVE	
3	EA	SILENCER	SR64	GRY	IVE	
DOOR HARDWARE 087100-26						
D001	DOOR HARDWARE 087100-20					

Project No: H17018

END OF SECTION

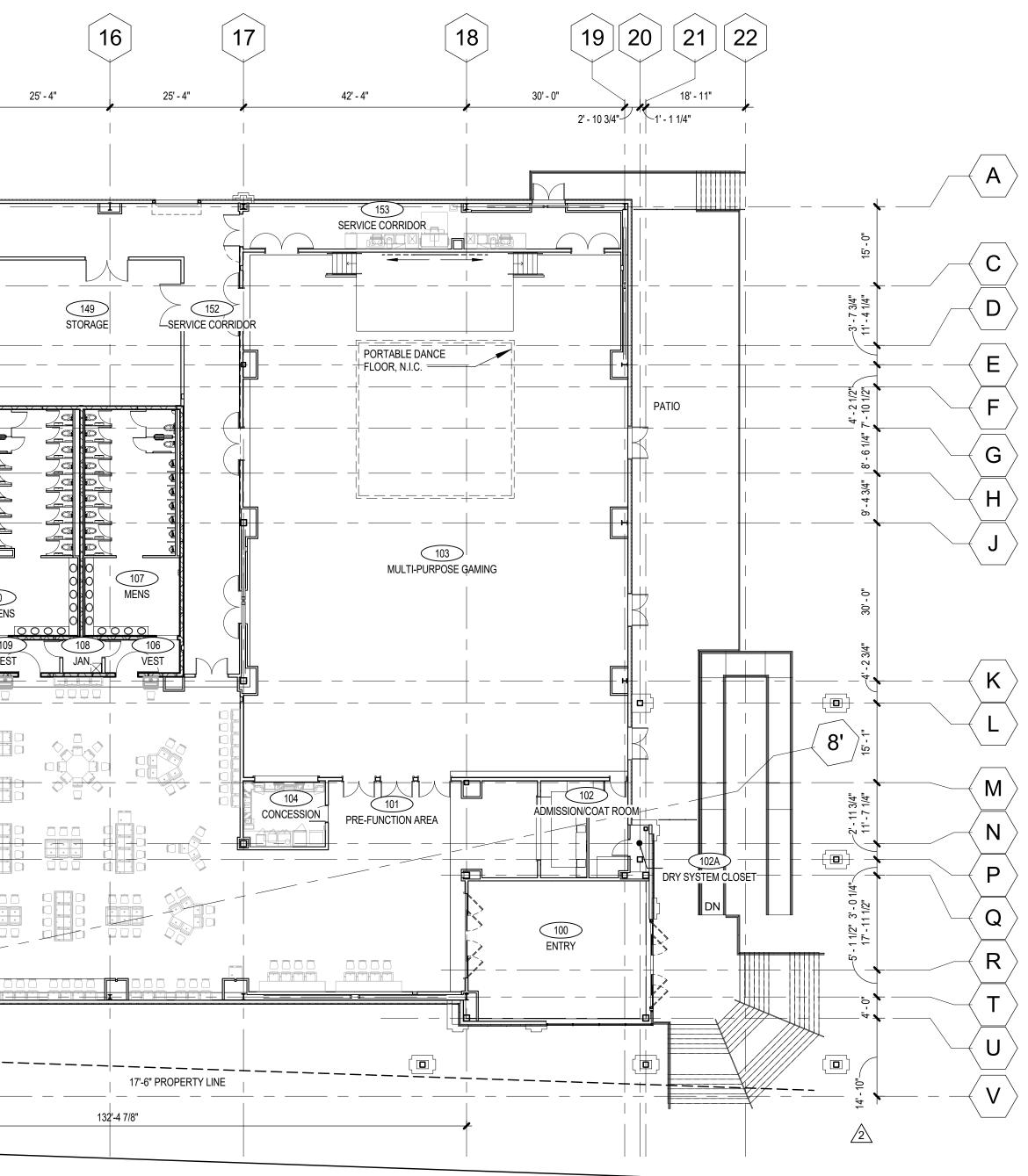
DOOR HARDWARE Project No: H17018 087100-27 6/27/2018



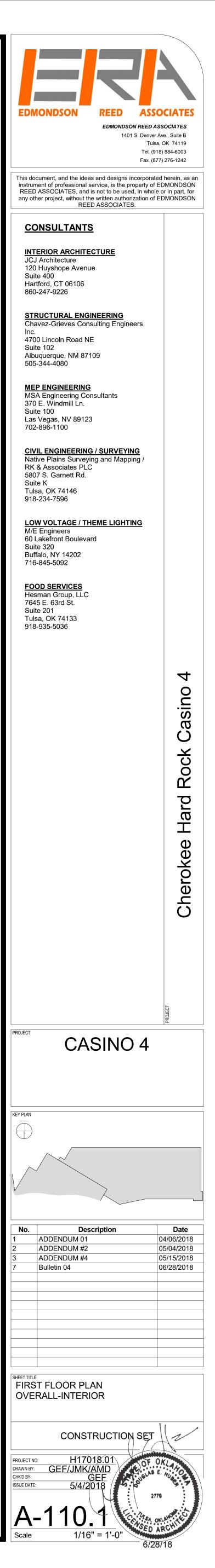
	100'-3 9/16"		90'-3	9/16"		
241 01	4 4.2 4.8	5 6 7 8	9 10 10.5			15
	22' - 8 1/2" 3' - 1 1/2" 2' - 6" 2' - 6"	13'-33/4" 15'-7" 3'-113/4" 1'-71/4" A.01				39'-5"
		126 KITCHENE		145 BEER COOLER 123 LL1 STANDING BAR-		
132 MEN 31 ST	WOMEN C					150 FLYWHEEL ROOM 146 ORRIDOR 022 STORAGE 796 SF
						151 IDF 110 WOMENS VEST
		127 SMOKE SHOP				
5		118 VEST. CAGE WORK ROOM	A-430 A-430 THAN TRAP/FJP FFICE	5A 115 STORAGE/CHIP/VAULT	EVERAGE STATION	
			THEE TRANSPORTED TO THE TRANSPORT OF THE TABLE			
		,		E'		

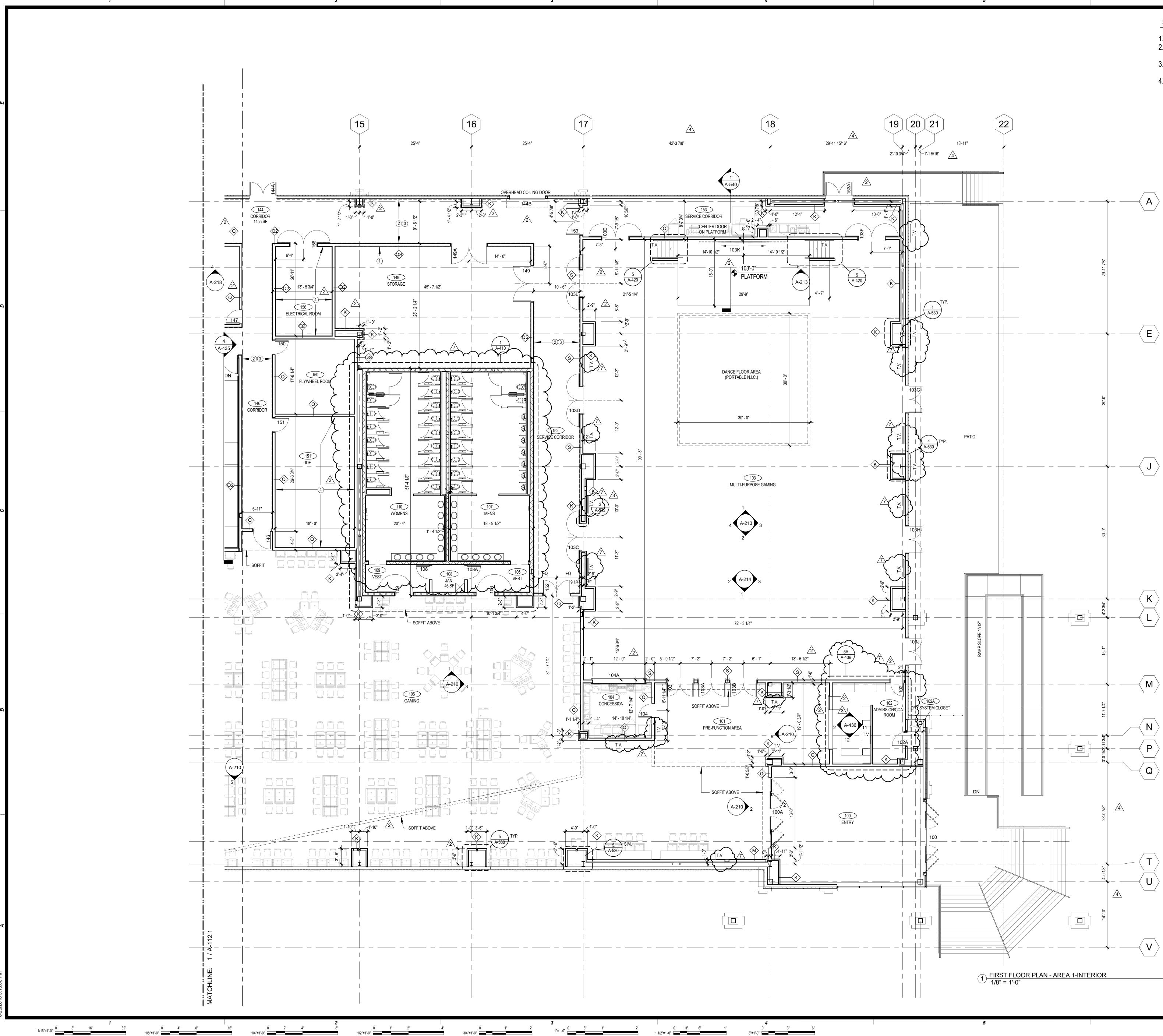
1 FIRST FLOOR PLAN OVERALL-INTERIOR 1/16" = 1'-0"

				3								4		
4'	0	1'	2'	1"=1'-0"	6"	1'	2'	0	3"	6"	1'	0	3"	6"
-	3/4"=1'-0"			1 – 1 –0				1 1/2"=1'-0"				3"=1'-0"		



6

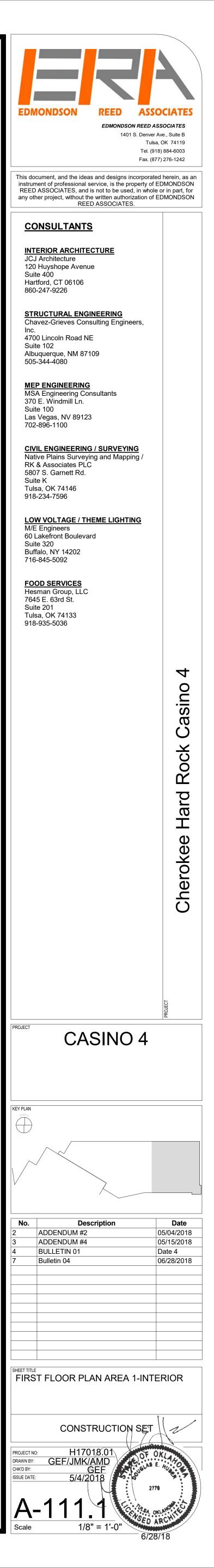


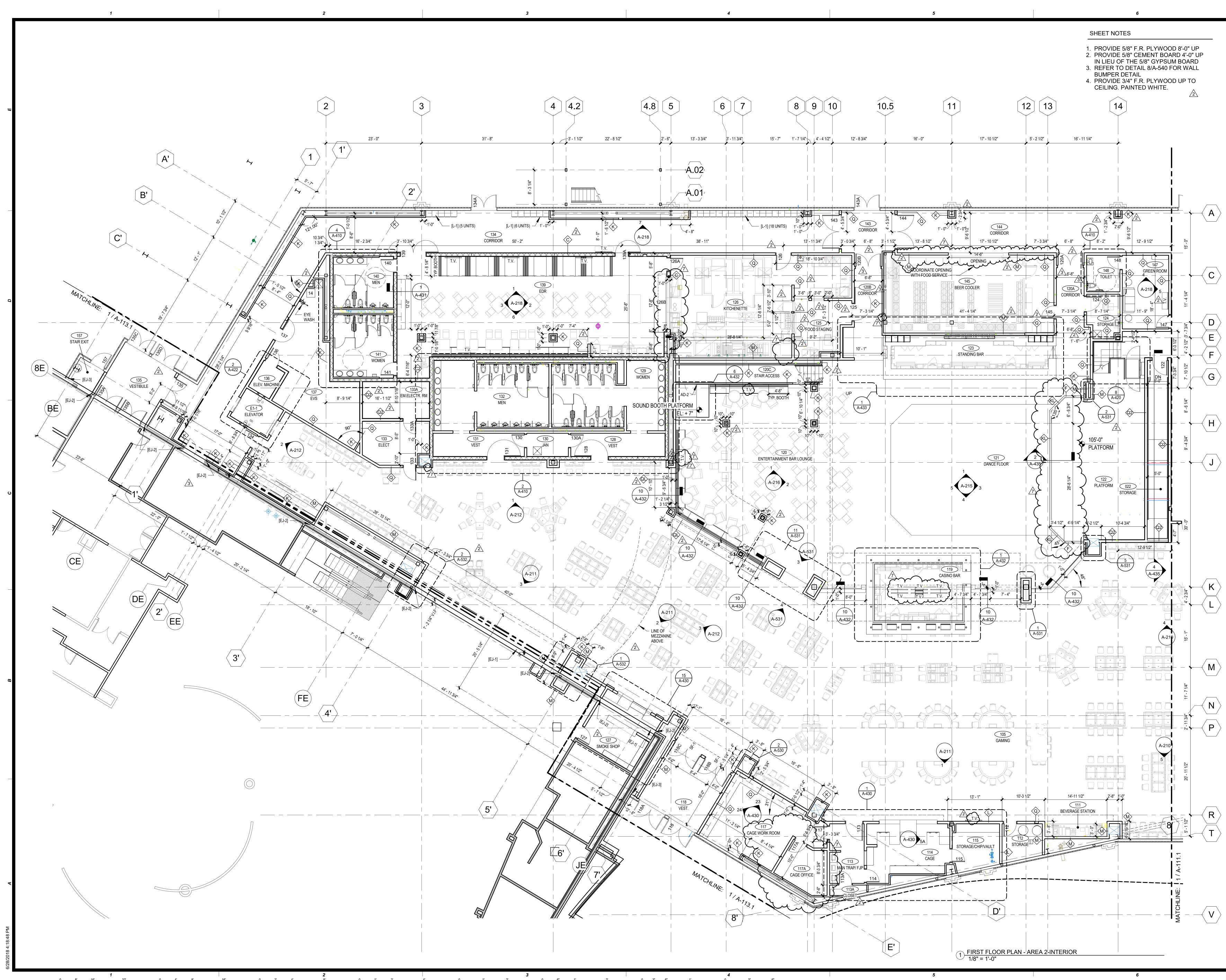


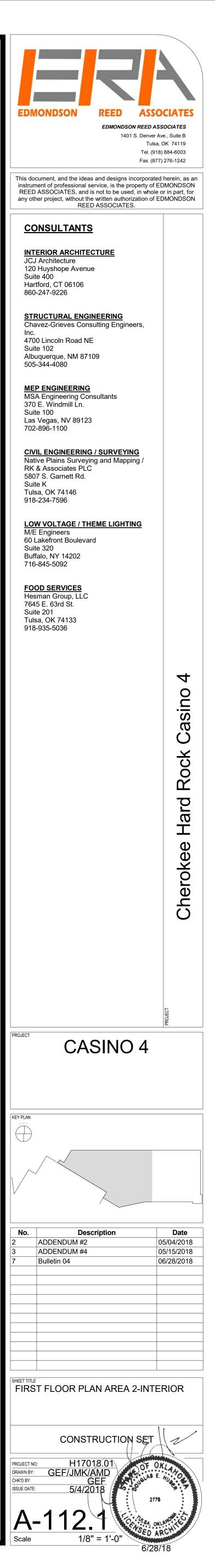


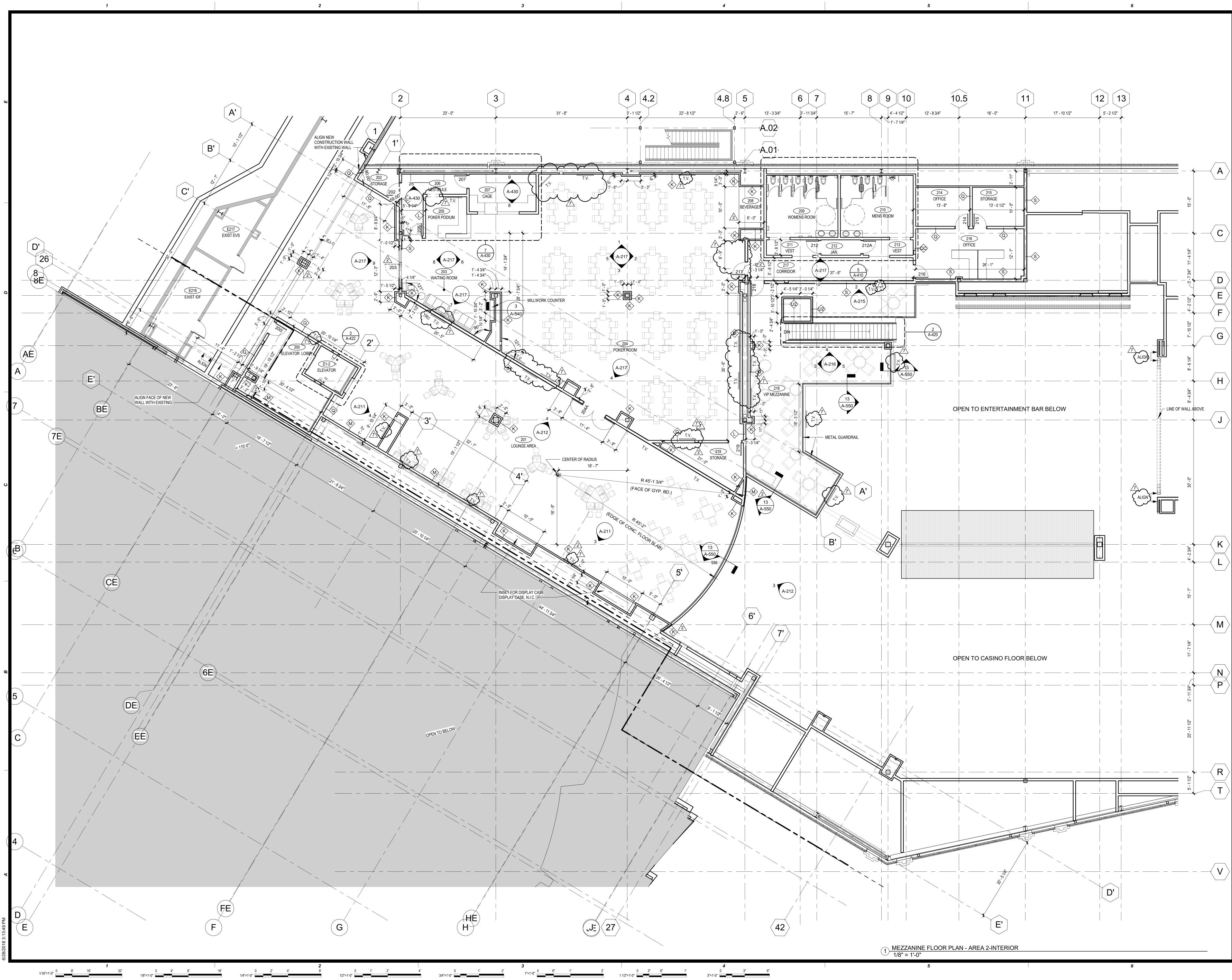
- 1. PROVIDE 5/8" F.R. PLYWOOD 8'-0" UP 2. PROVIDE 5/8" CEMENT BOARD 4'-0" UP
- IN LIEU OF THE 5/8" GYPSUM BOARD
- 3. REFER TO DETAIL 8/A-540 FOR WALL BUMPER DETAIL

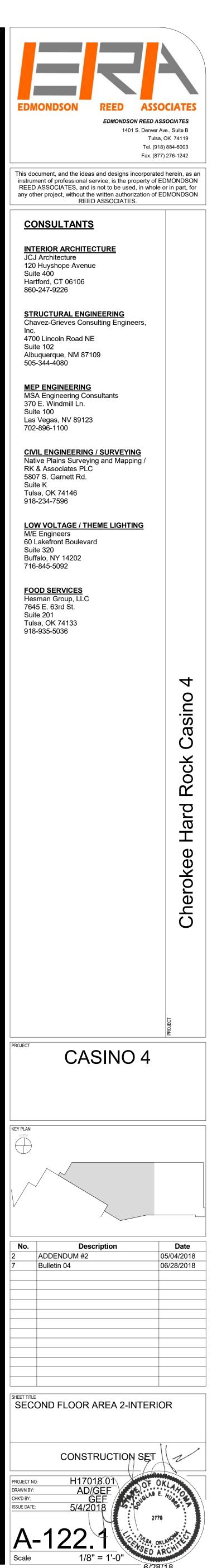
4. PROVIDE 3/4" F.R. PLYWOOD UP TO CEILING. PAINTED WHITE. <u>/2</u>

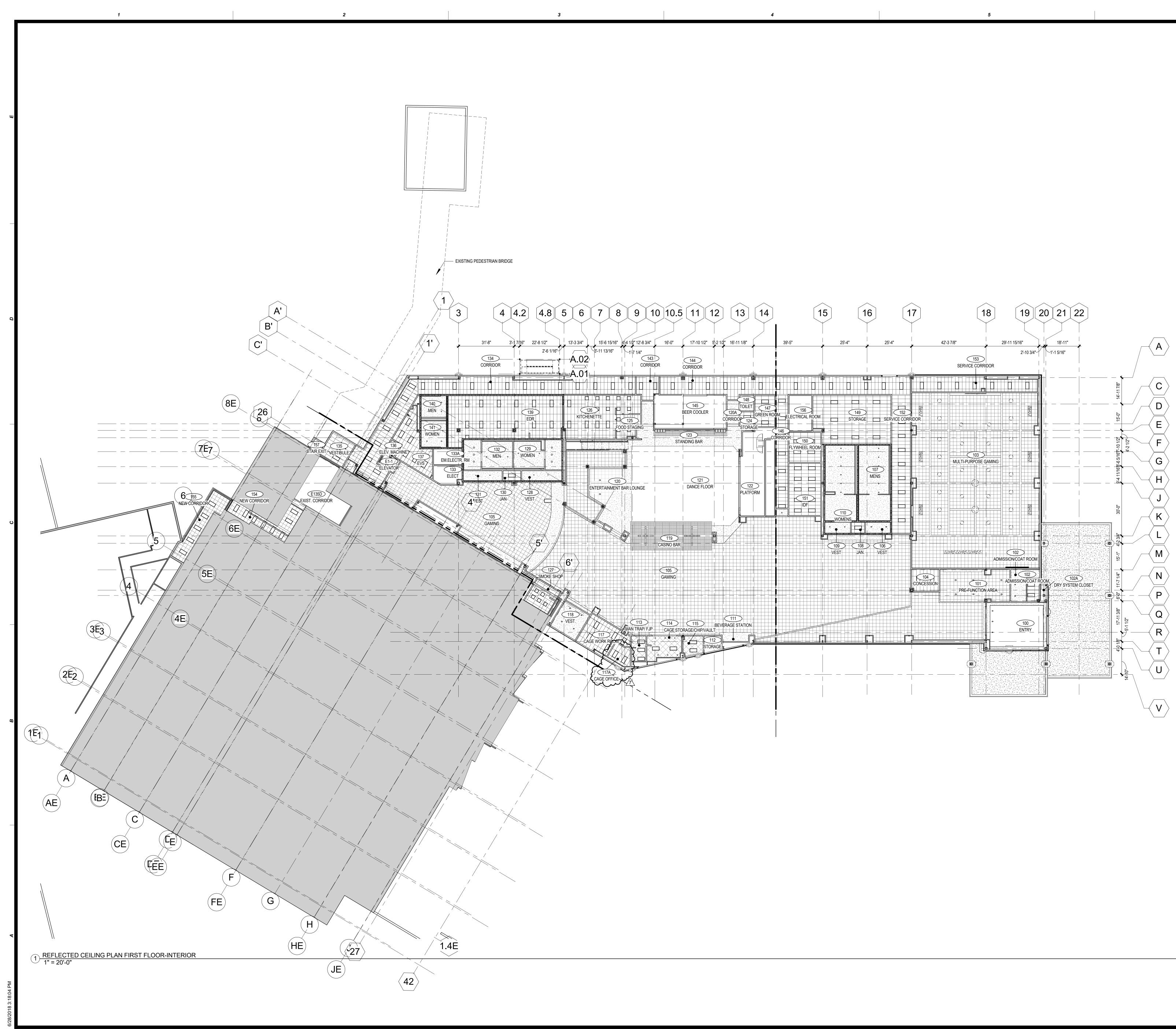


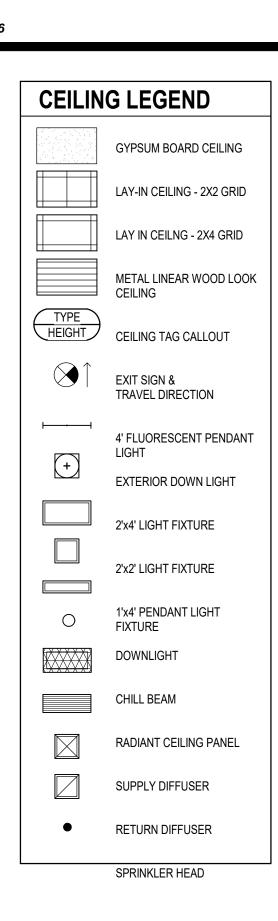


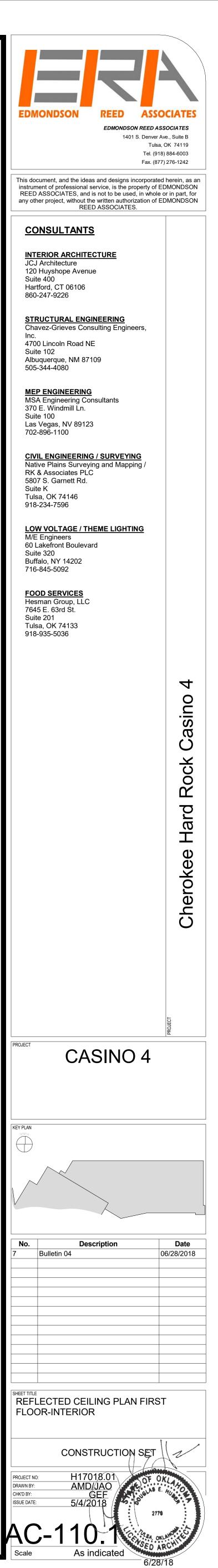


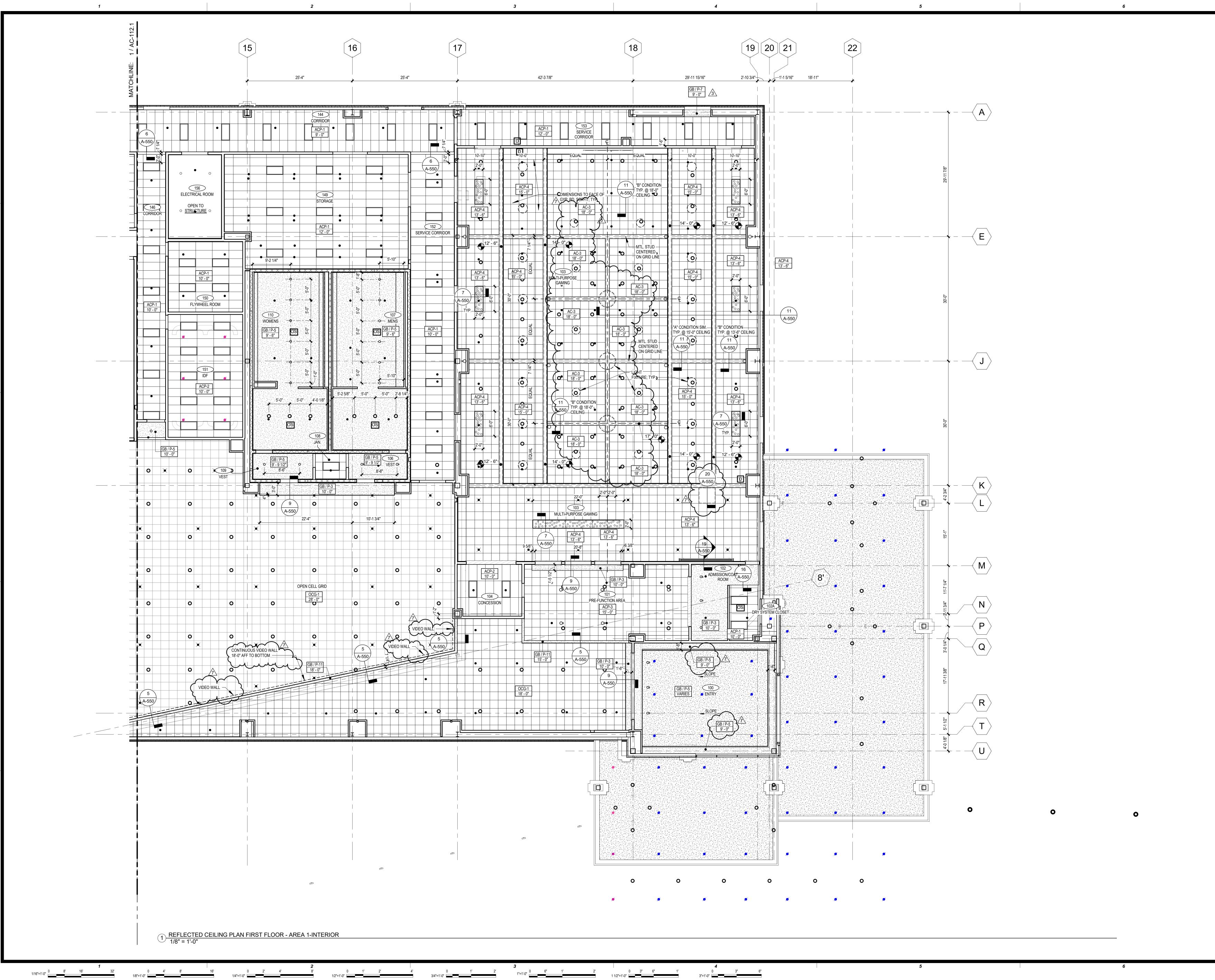


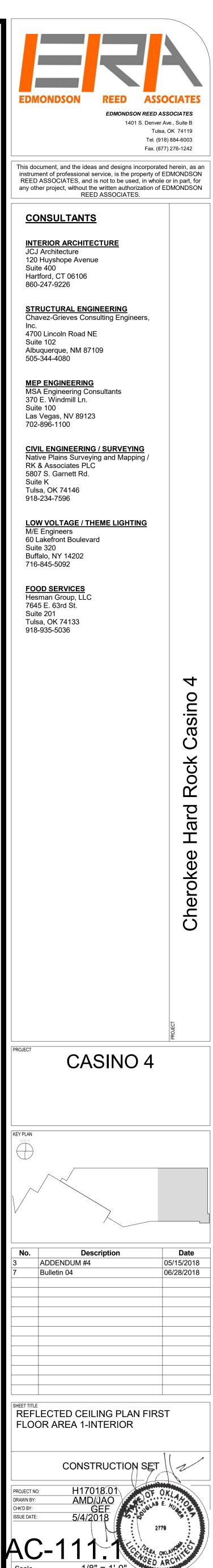


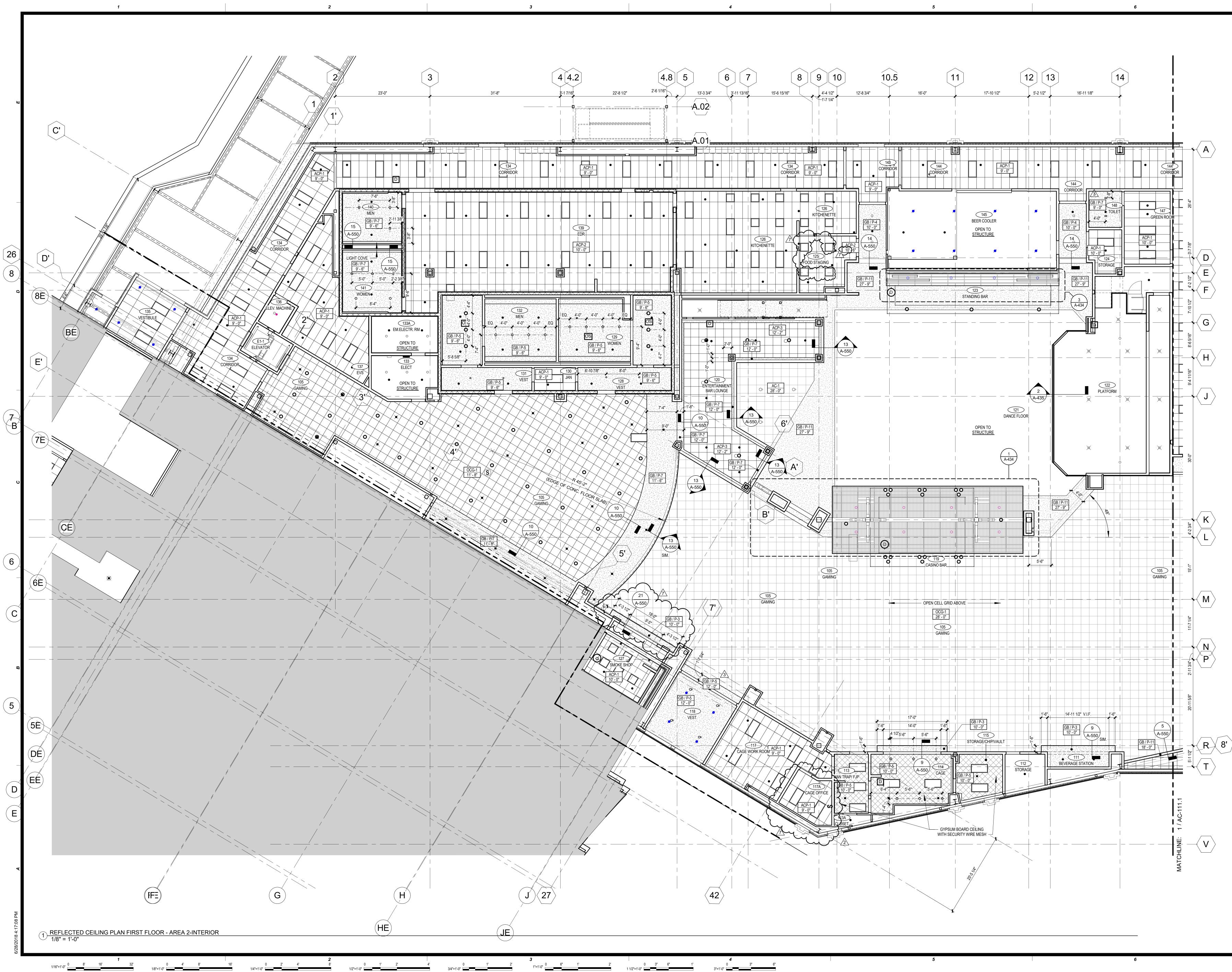


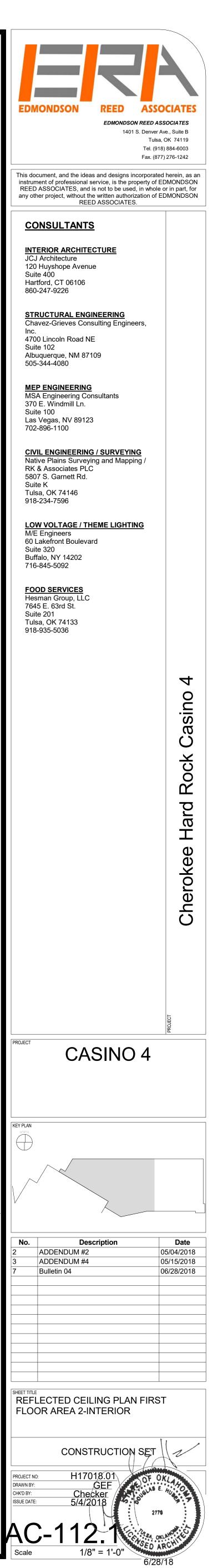


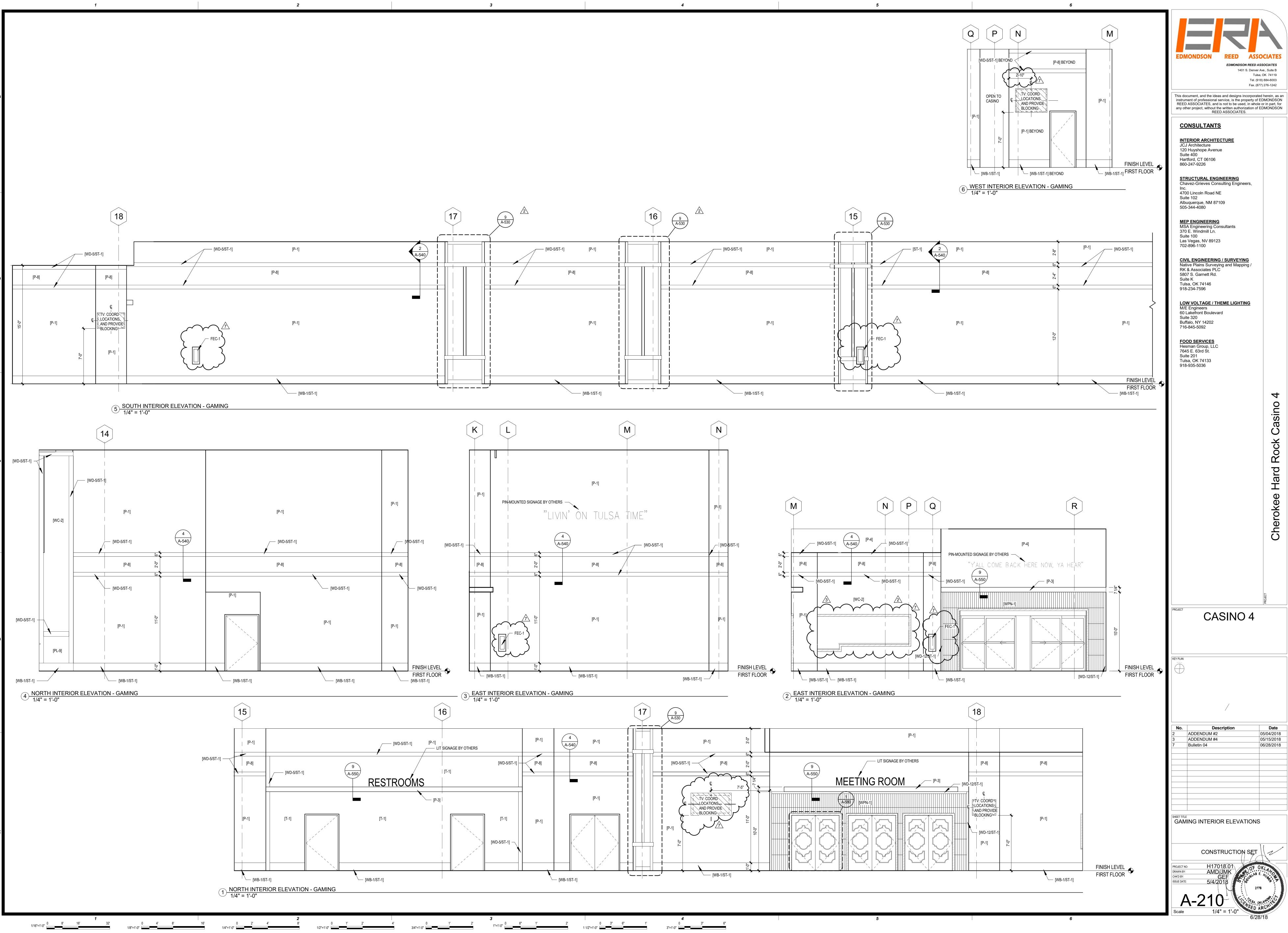




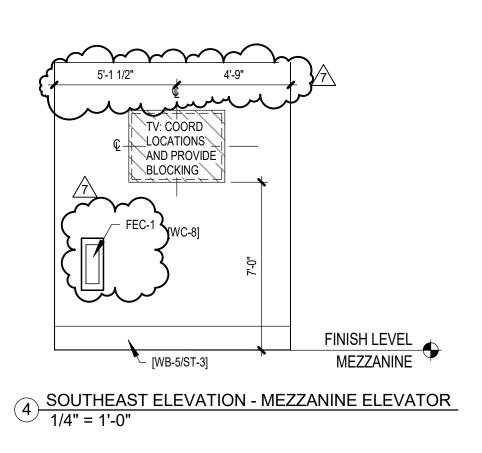


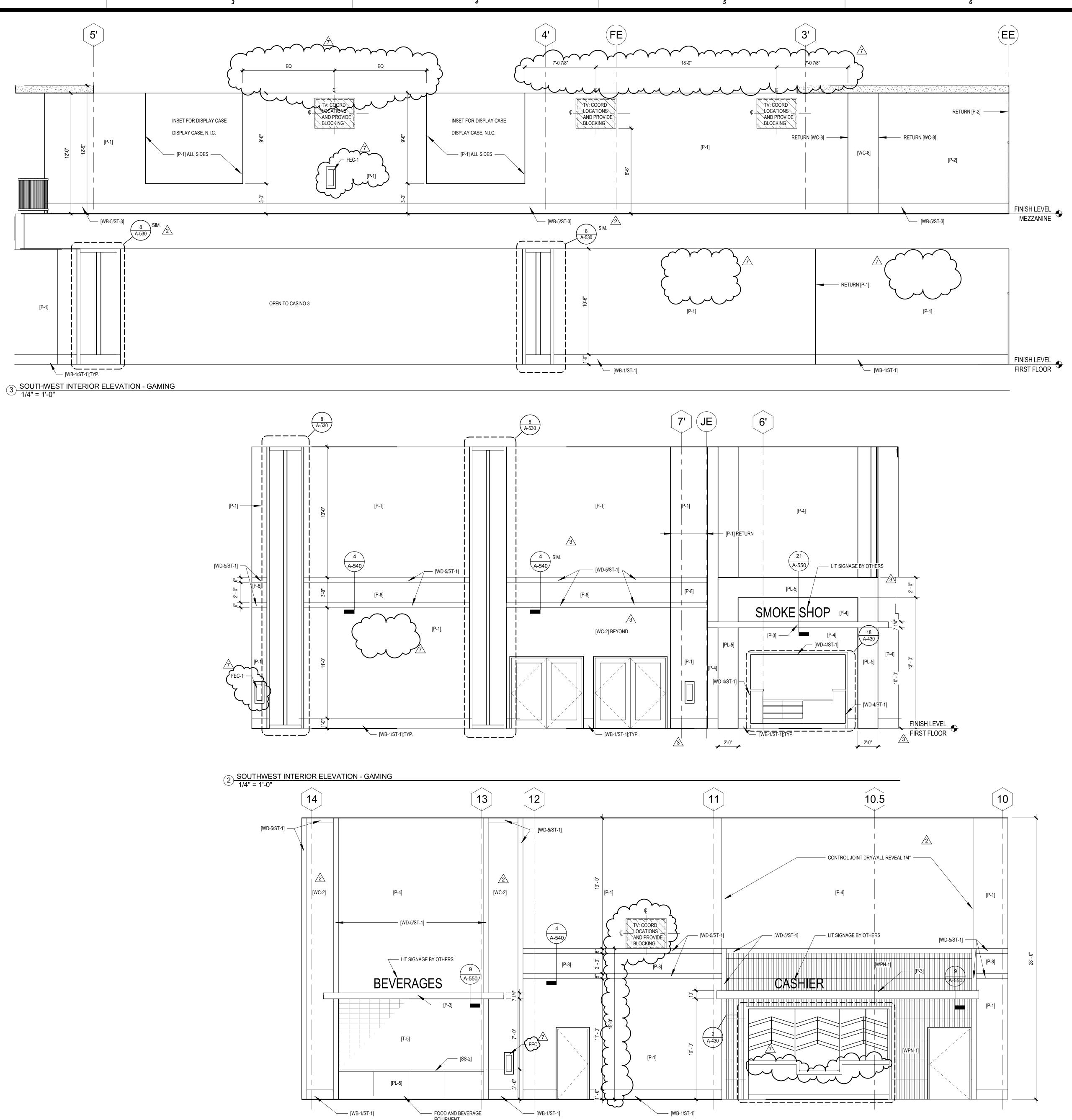


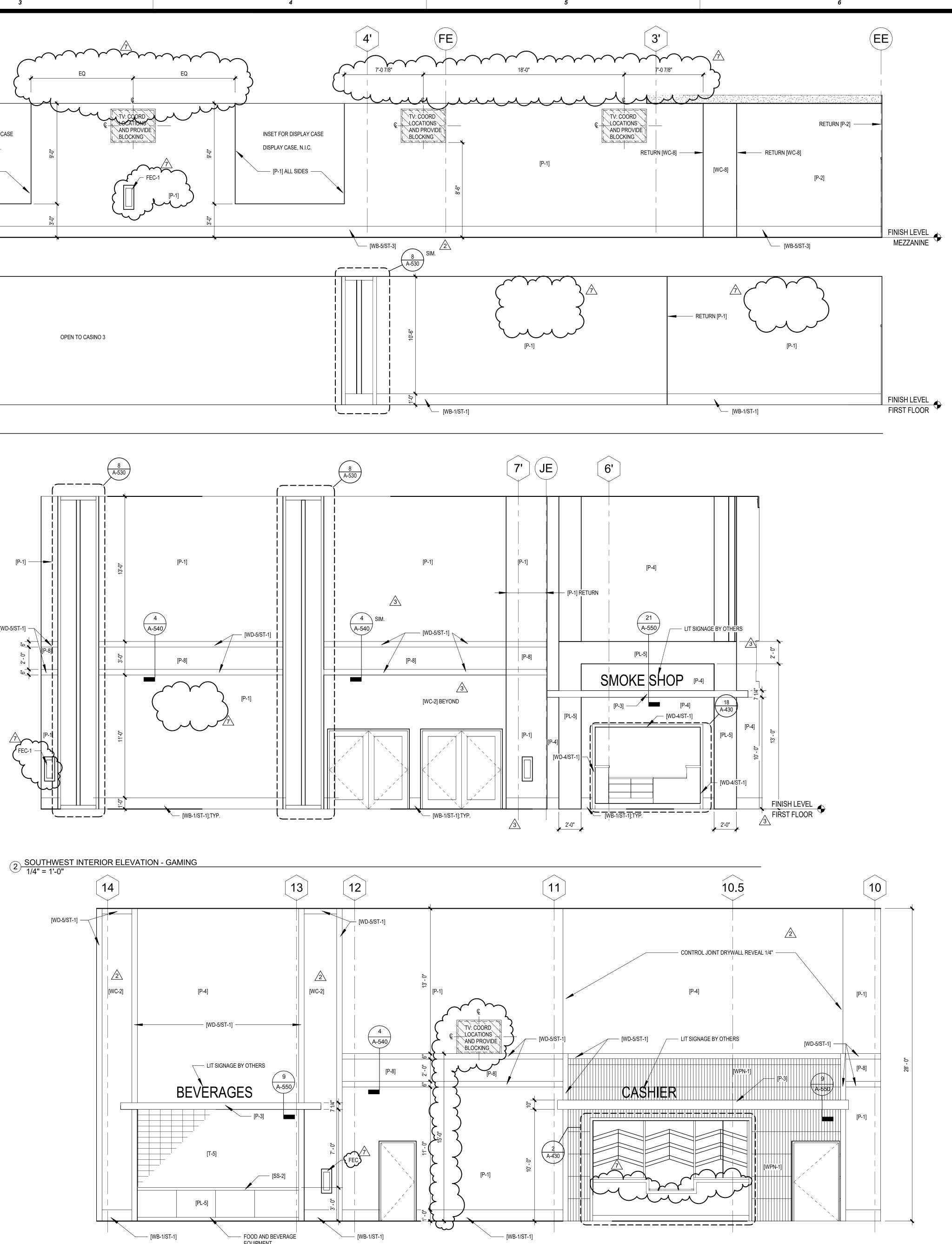


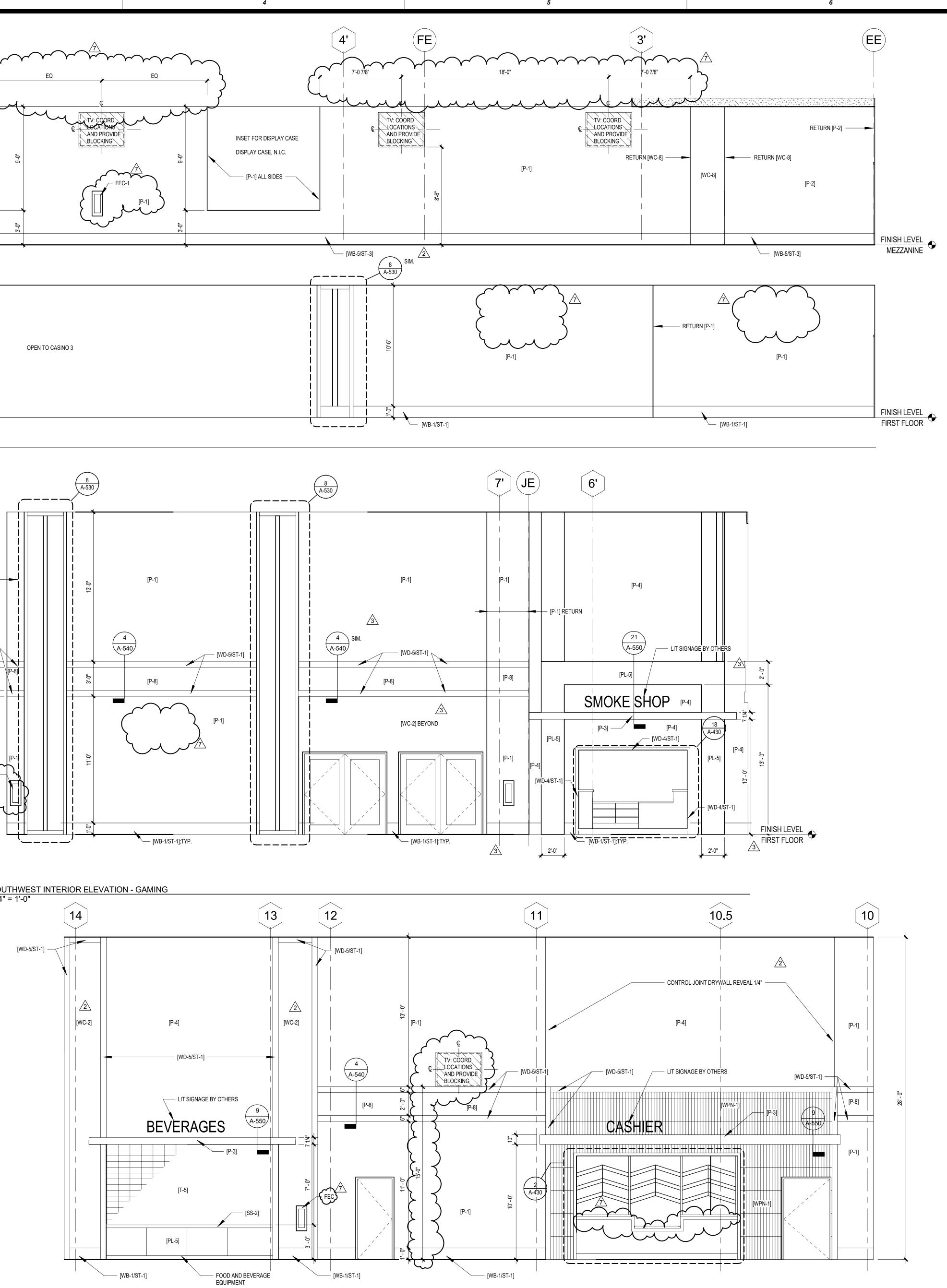








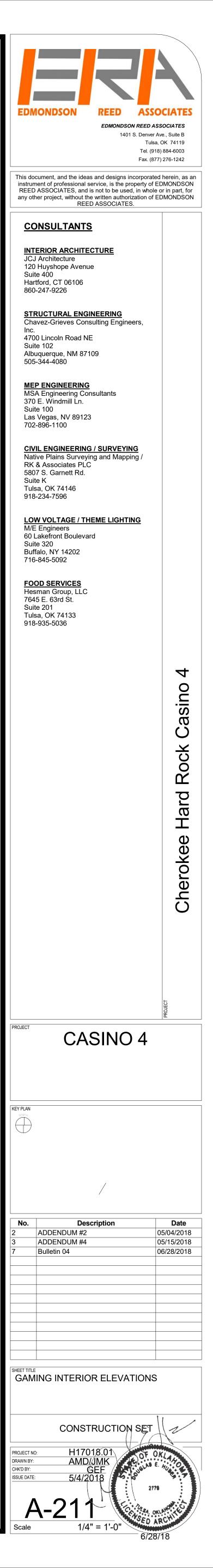




 $1 \frac{\text{SOUTH INTERIOR ELEVATION - GAMING}}{1/4" = 1'-0"}$

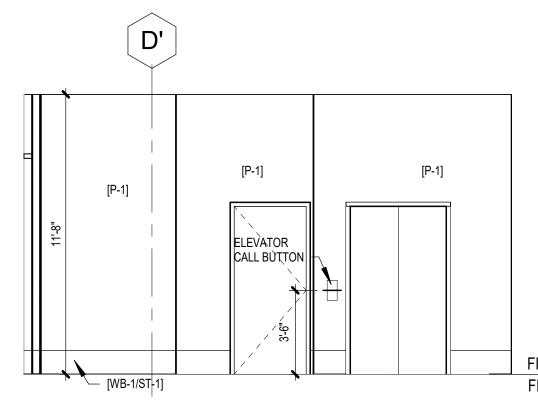
				3								4			
4'	0 3/4"=1'-0"	1'	2'	1"=1'-0"	6"	1'	2'	0 1 1/2"=1'-0"	3"	6"	1'	0 3"=1'-0"	3"	6"	

5

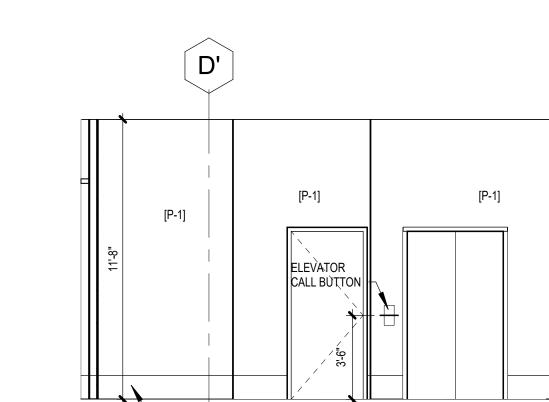


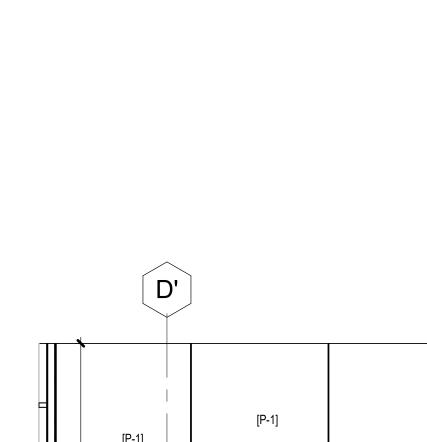
1	2	3	4
1/16"=1'-0" 0 8' 16' 32' 0 4' 8' 1/8"=1'-0" 1/8"=1'-0"	16' 0 2' 4' 8' 0 1' 2' 1/4"=1'-0" 1/2"=1'-0" 1/2"=1'-0" 1/2"=1'-0" 1/2"=1'-0" 1/2"=1'-0"	4' 0 1' 2' 1"=1'-0" 0 6" 1' 2'	0 3" 6" 1' 0 3" 6" 1 1/2"=1'-0" 3"=1'-0"

2 NORTH WEST INTERIOR ELEVATION - GAMING 1/4" = 1'-0"

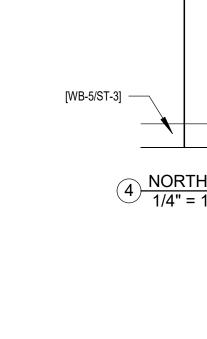












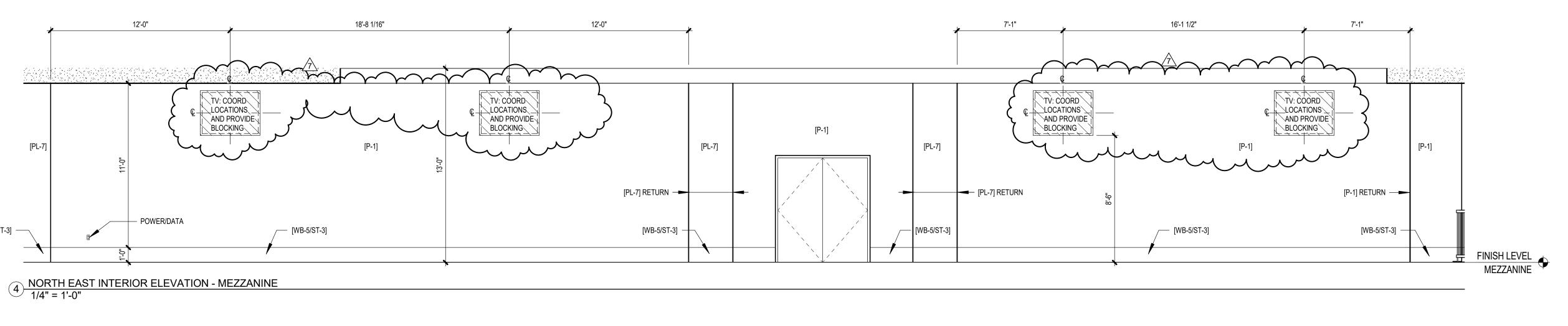
-/ * - - > >

[PL-7]

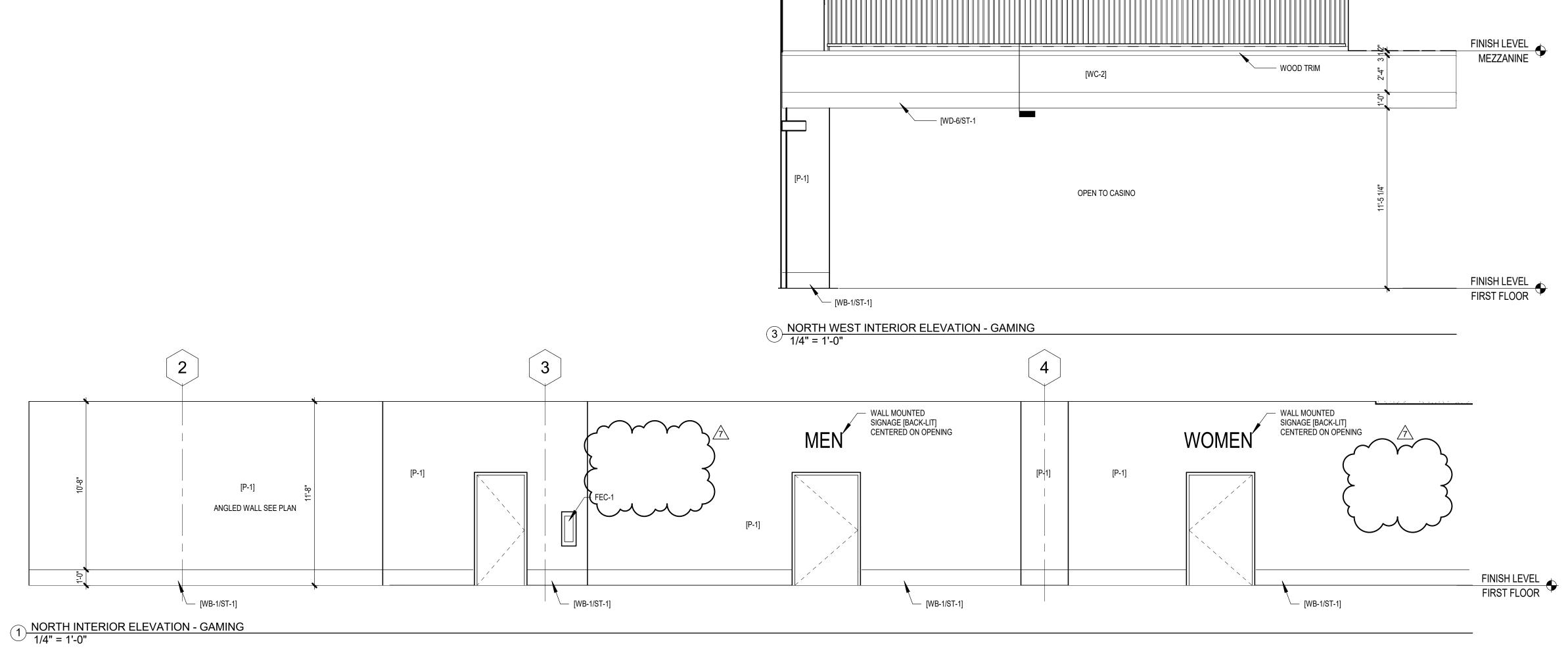








[P-1]



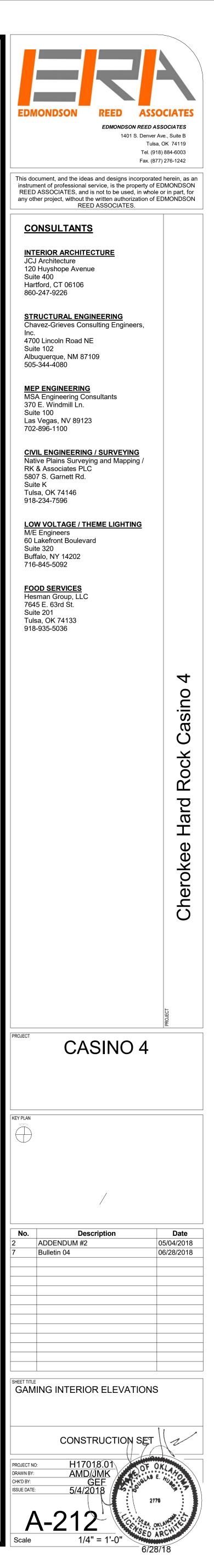


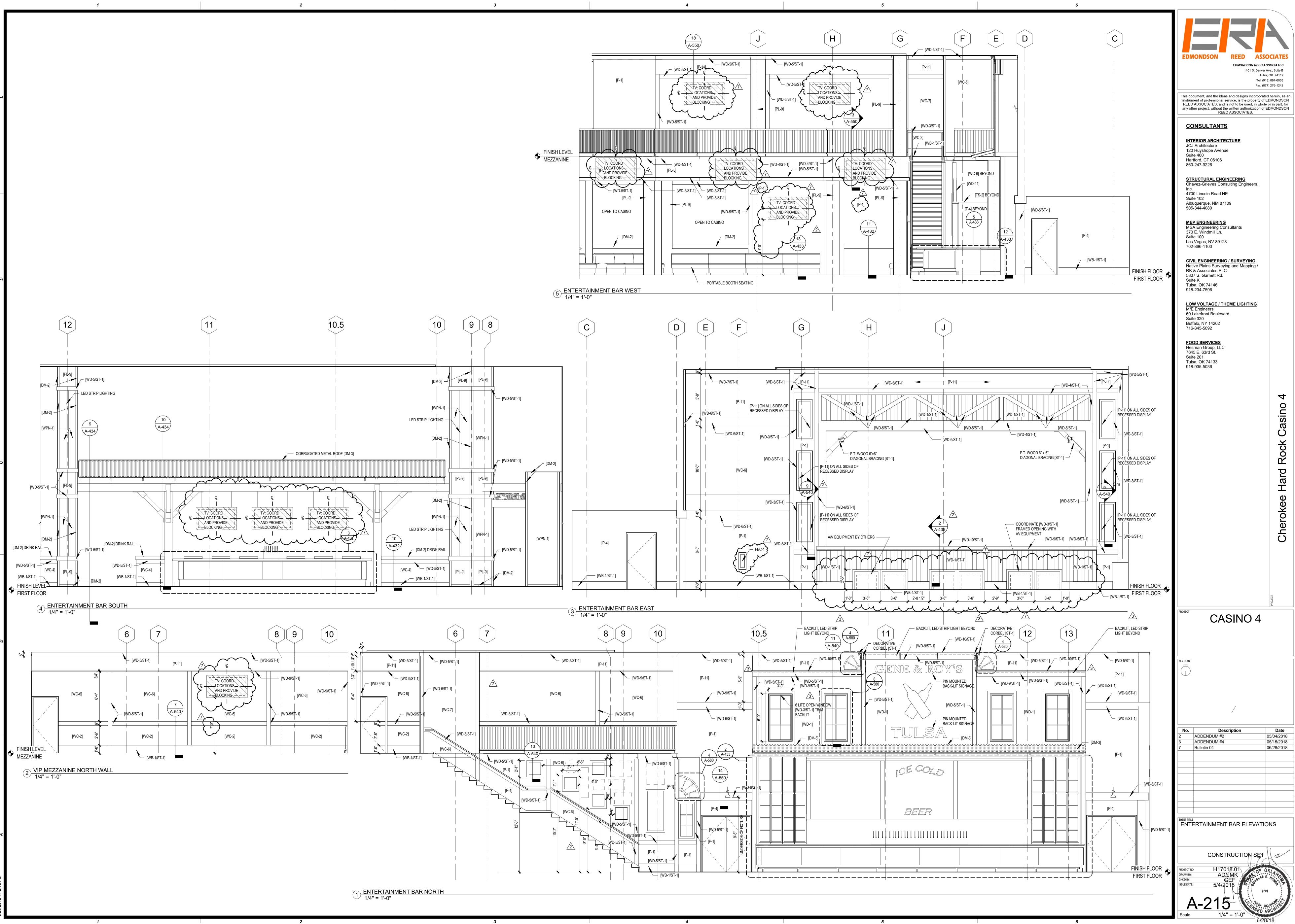
OPEN TO GAMING

5

6

[P-1]





 1/16"=1'-0"
 1/16"=1'-0"
 2

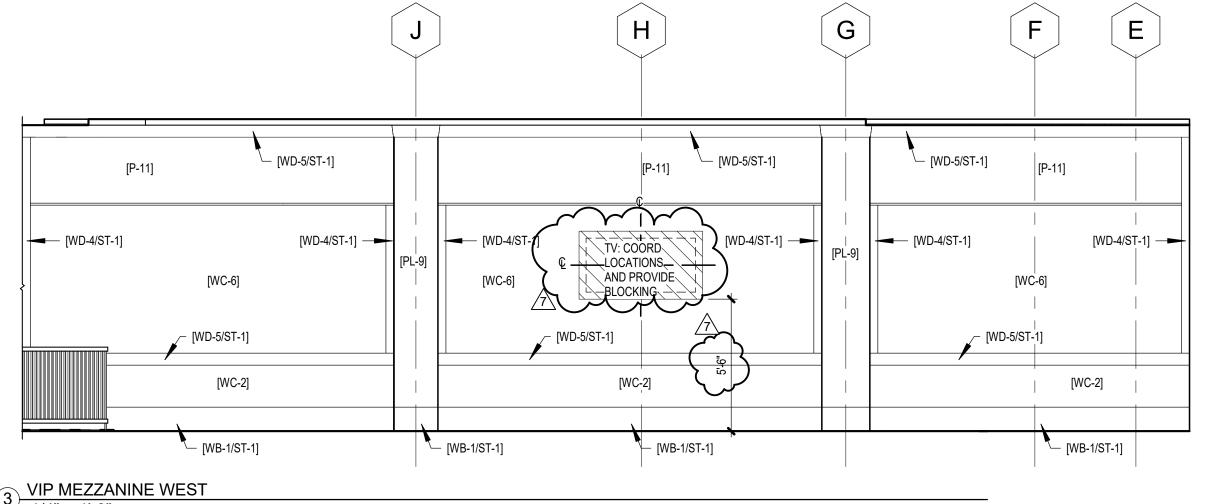
 1/16"=1'-0"
 0
 4'
 8'
 16'
 0
 2'
 4'
 8'

 1/2"=1'-0"
 1/8"=1'-0"
 1/8"=1'-0"
 1/2"=1'-0"
 1/2"=1'-0"
 1/2"=1'-0"

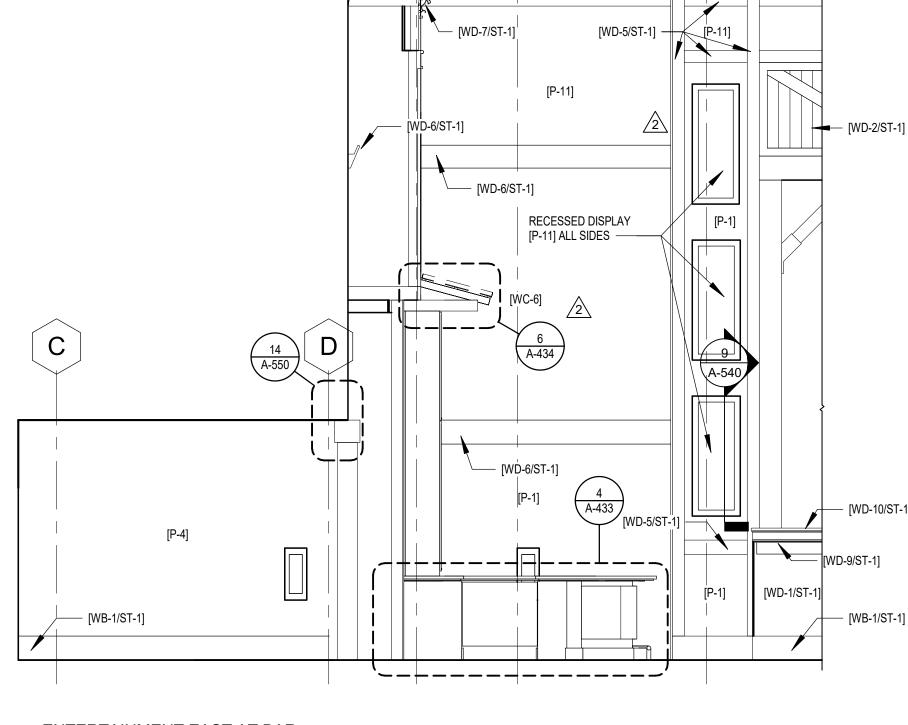
			3								4			
4' 0 3/4"=1'-0"	1'	2'	1"=1'-0"	6"	1'	2'	0 1 1/2"=1'-0"	3"	6"	1'	0 3"=1'-0"	3"	6"	







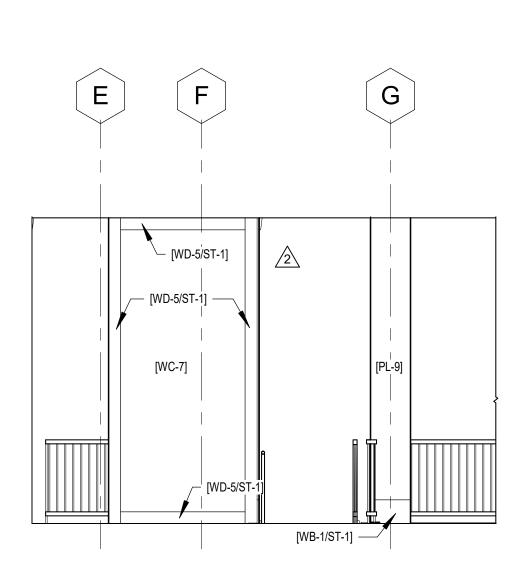




E



F

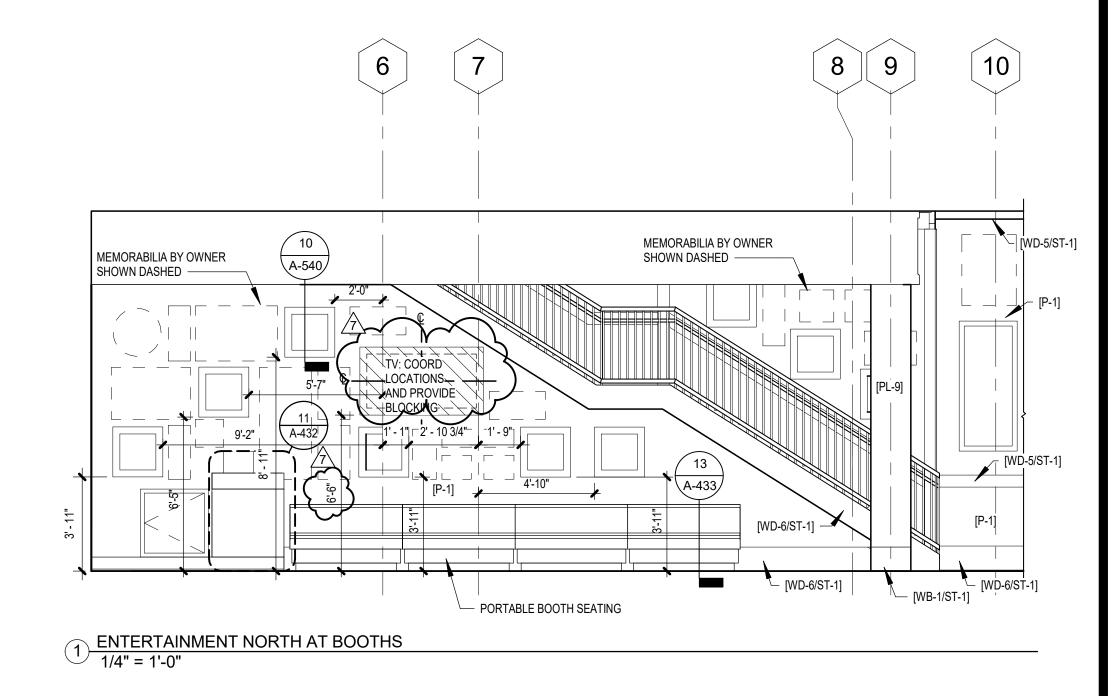


G

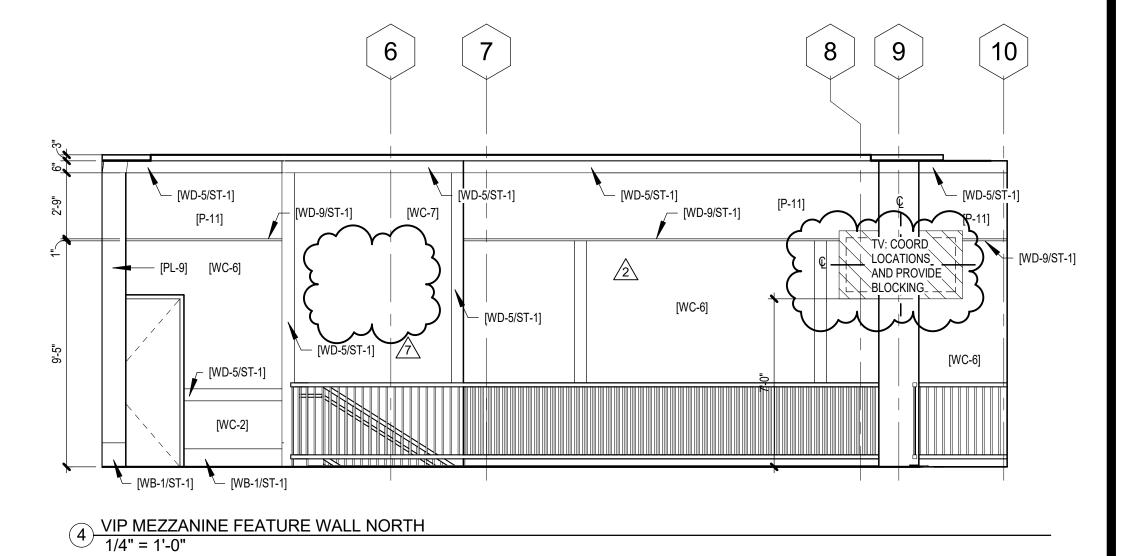
- [WD-10/ST-1]

— [WB-1/ST-1]

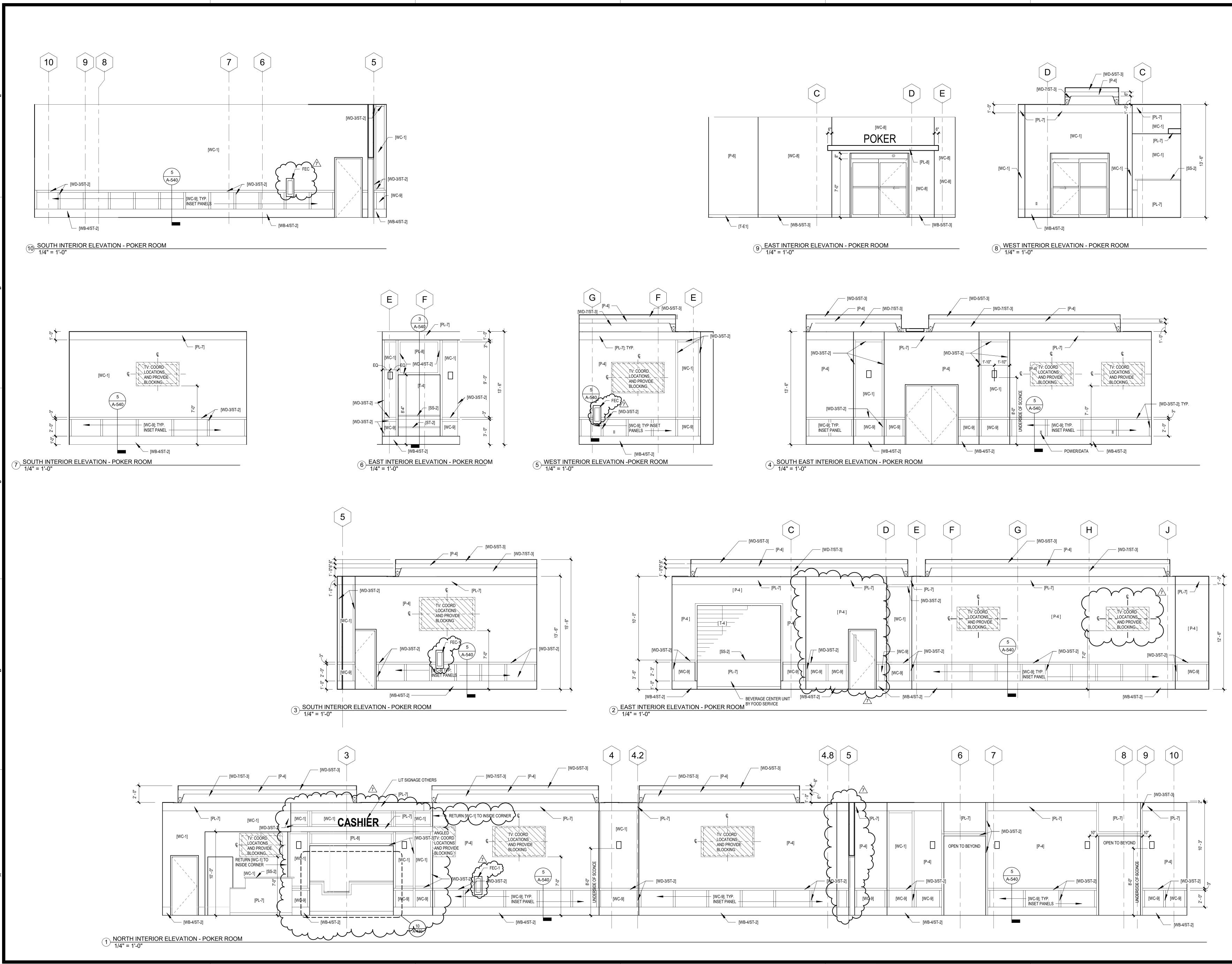
5



6





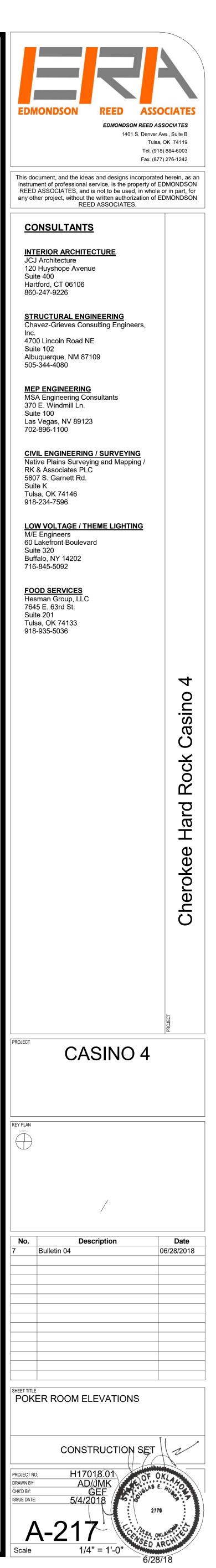


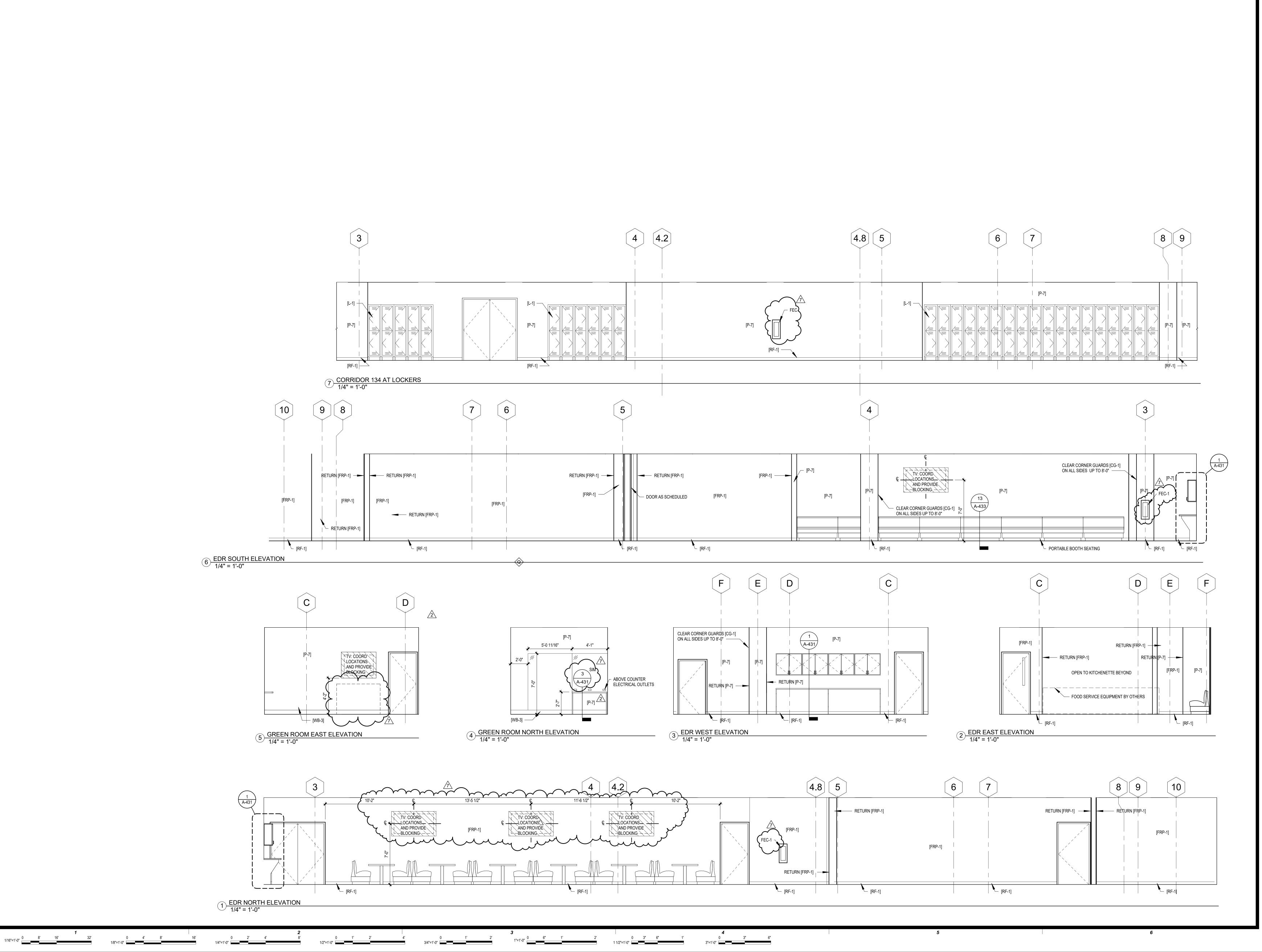
 1/16"=1'-0"
 0
 8'
 16'
 0
 2'
 4'
 8'

 1/16"=1'-0"
 1/8"=1'-0"
 1/8"=1'-0"
 1/2"=1'-0"
 1/2"=1'-0"

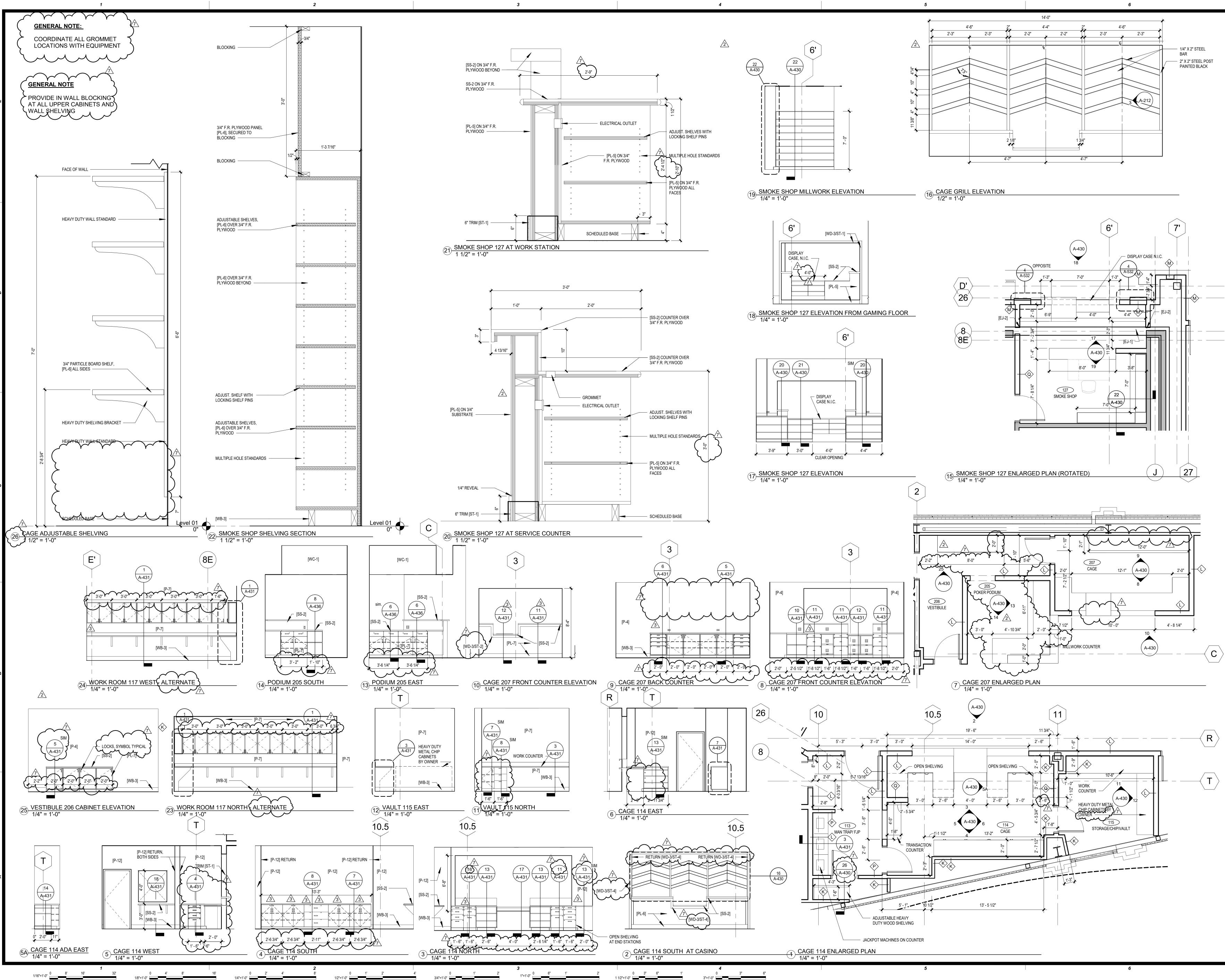


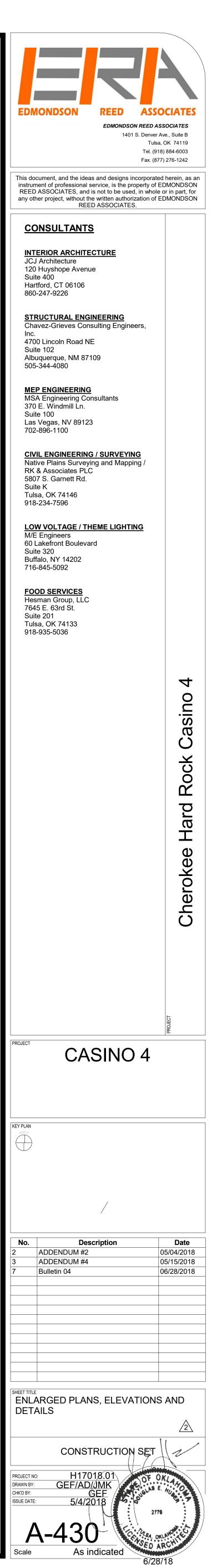


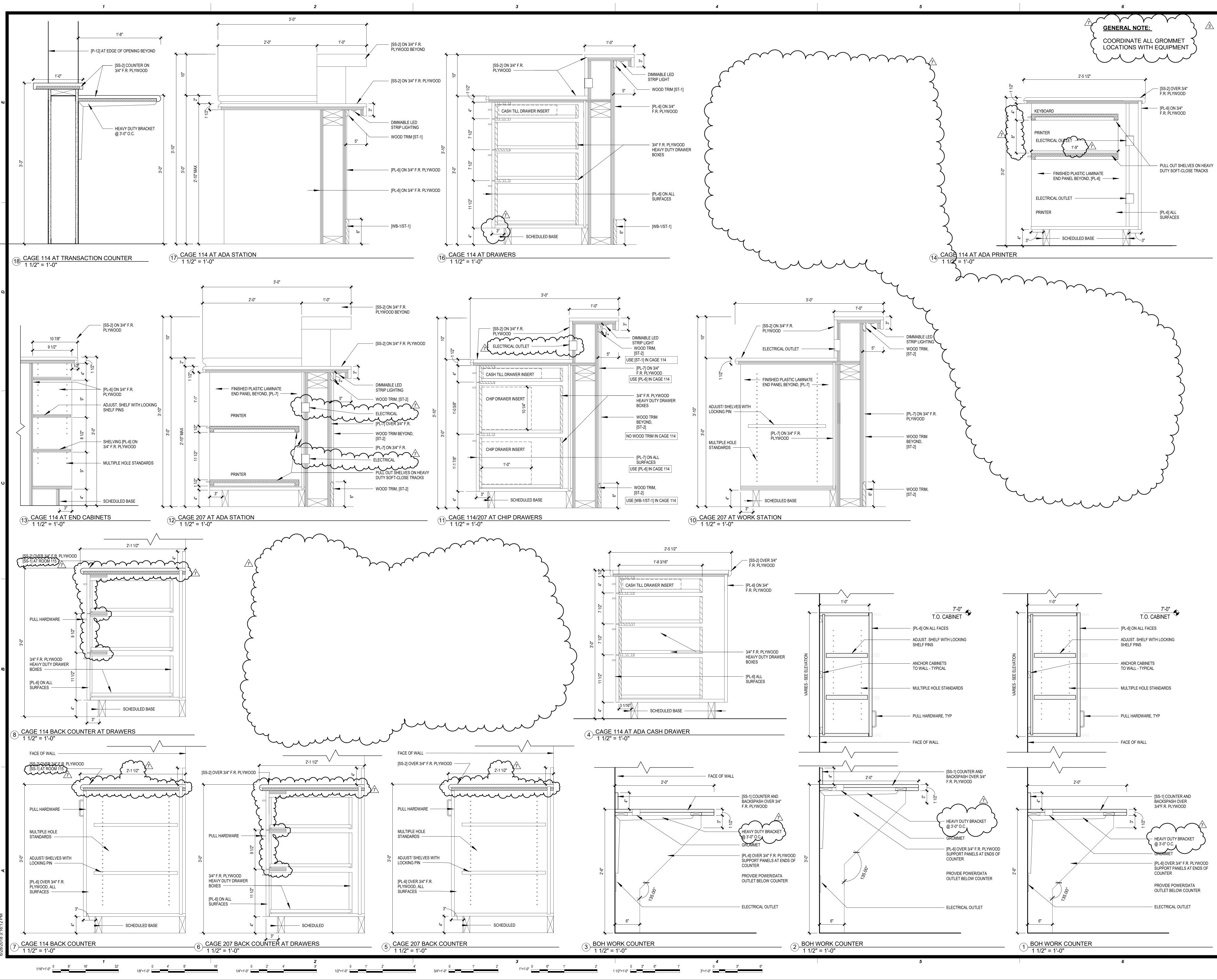






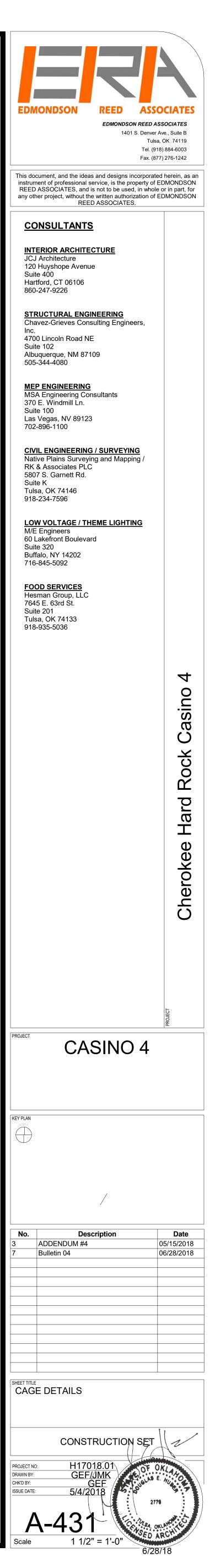


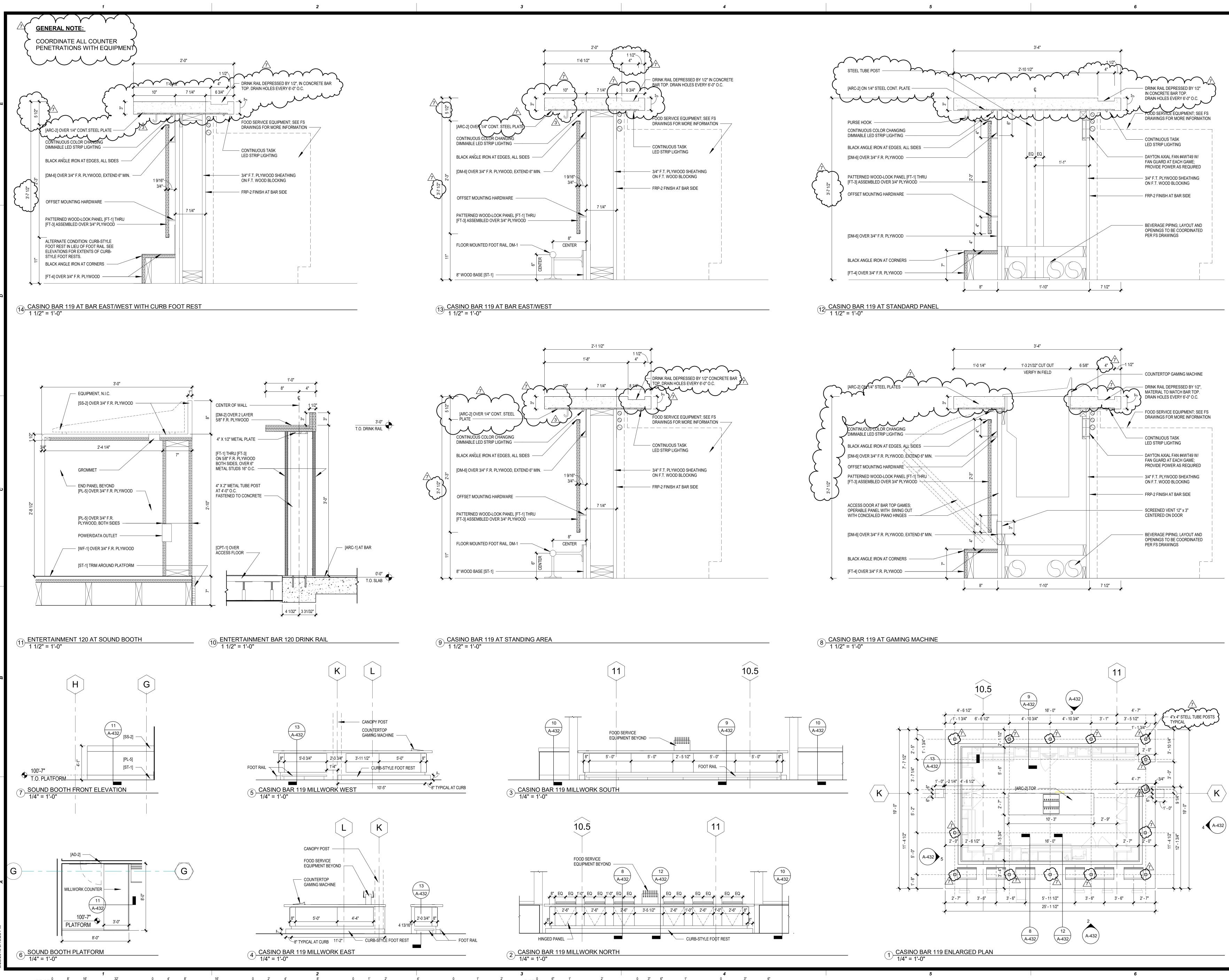


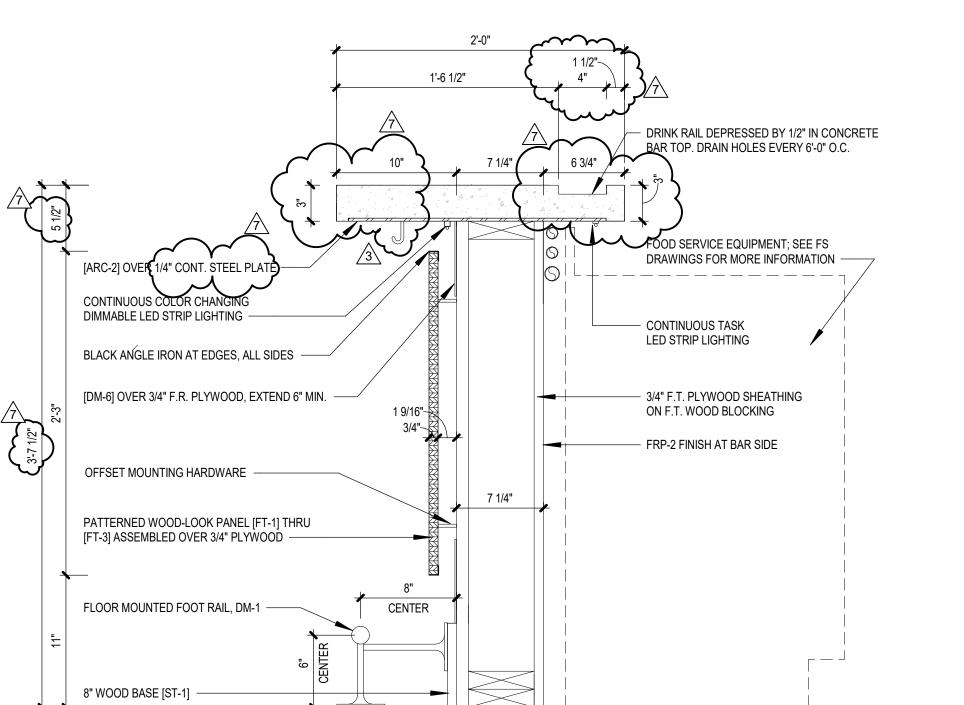


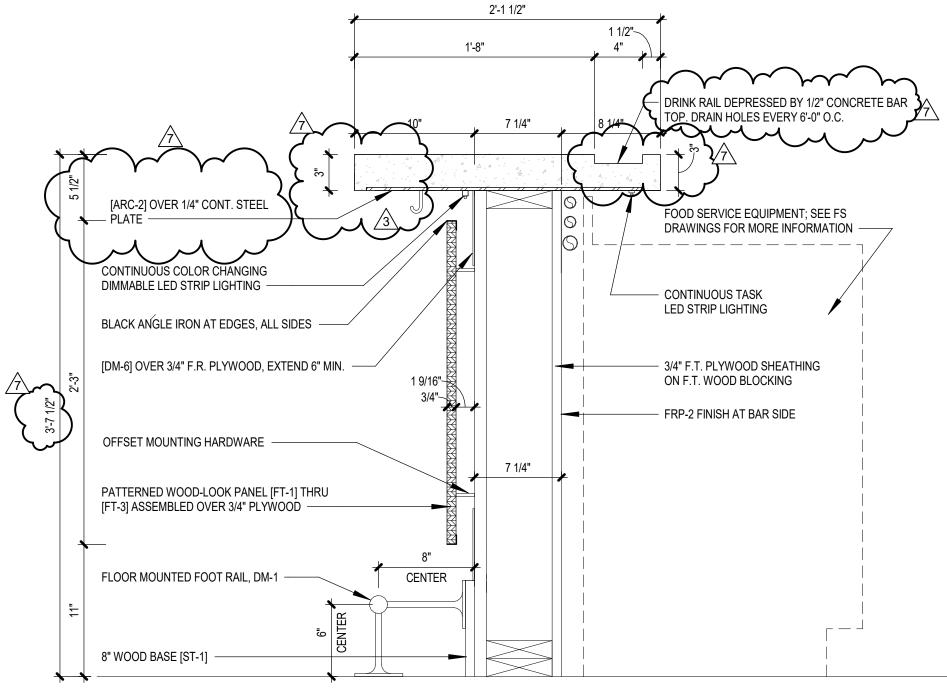










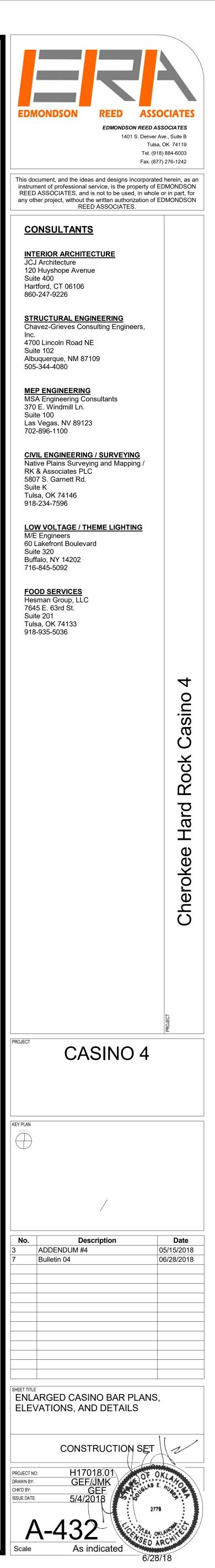


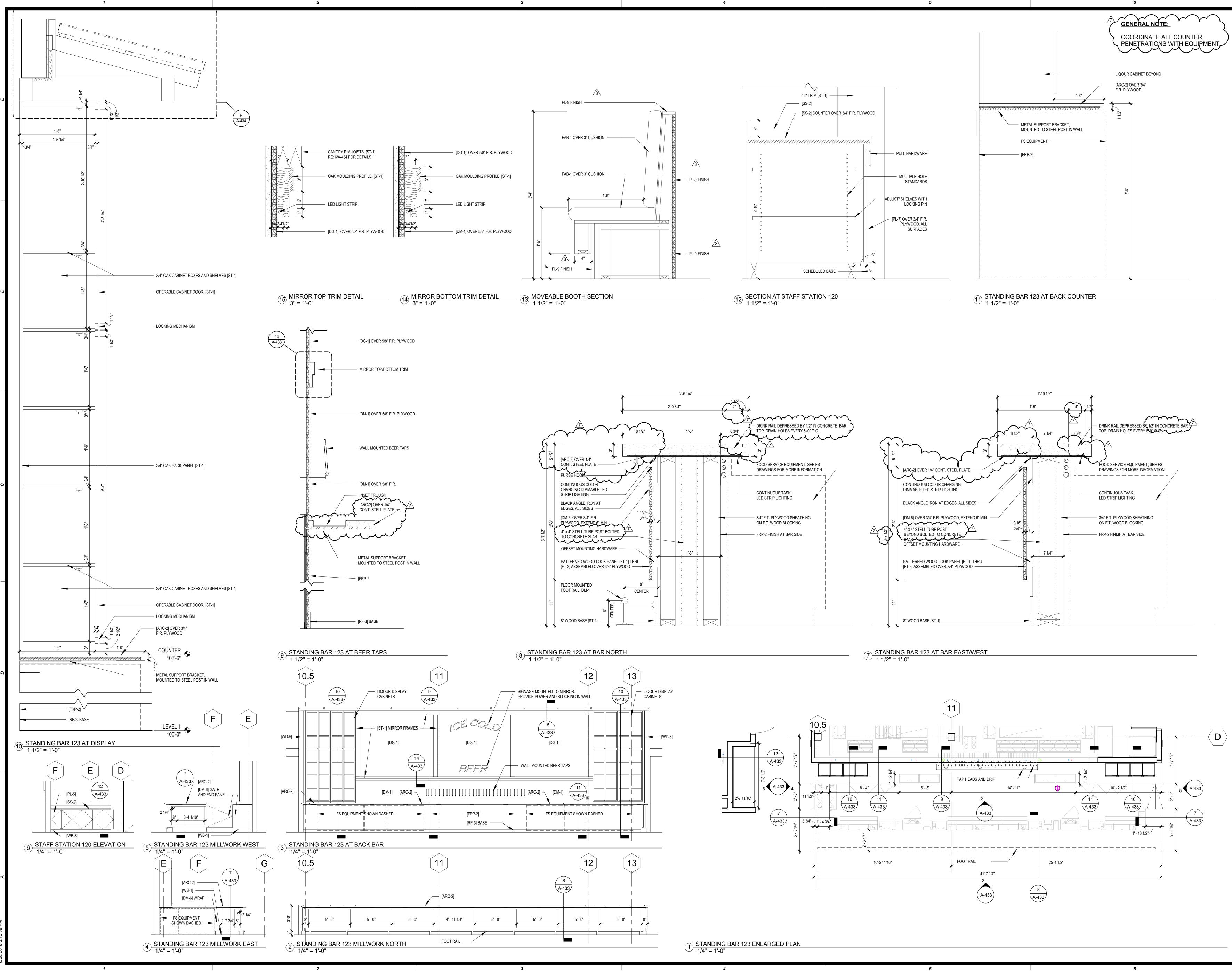
1/2"=1'-0"

1/16"=1'-0"

1/8"=1'-0"

0"

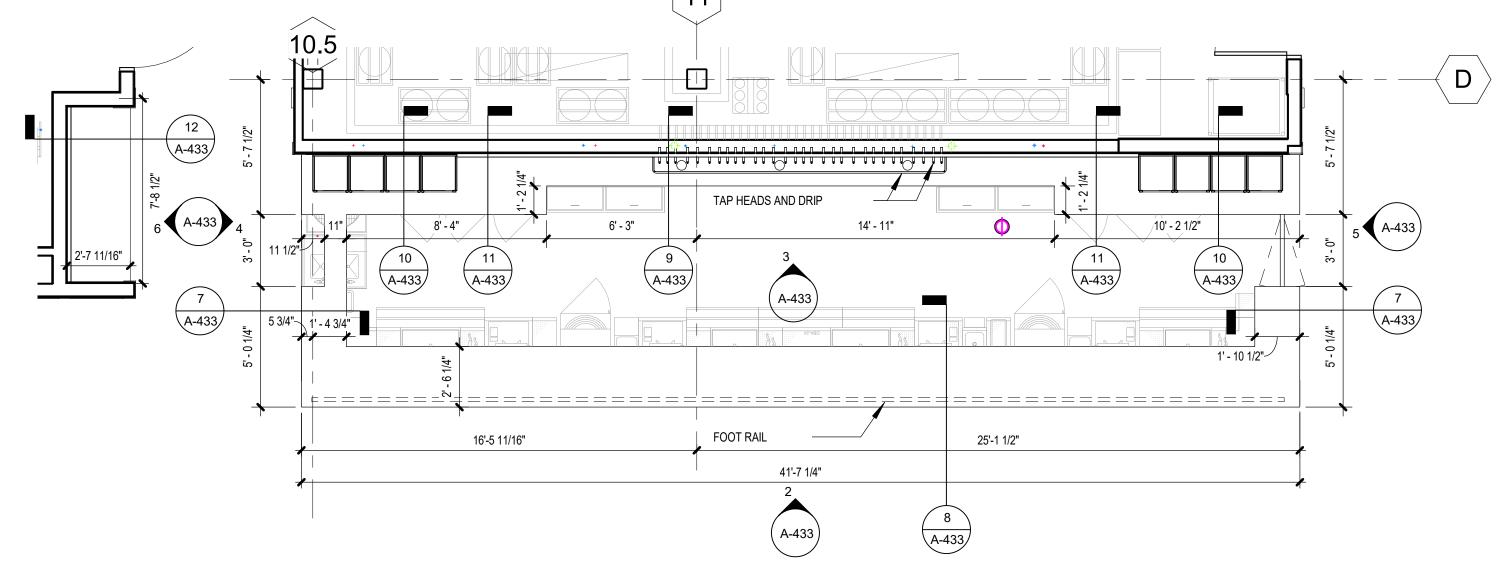


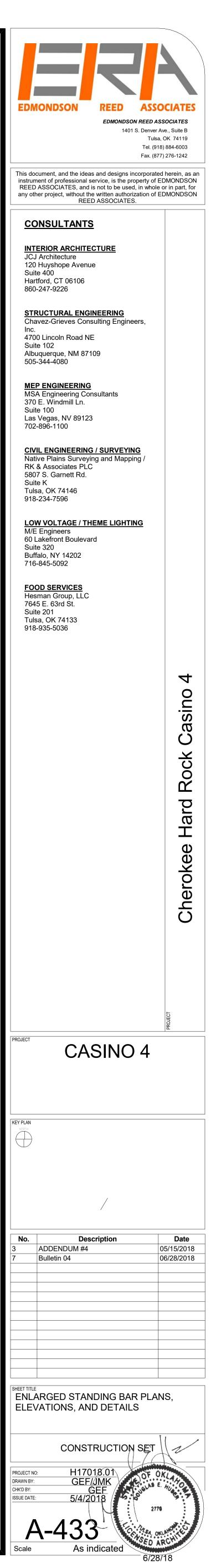


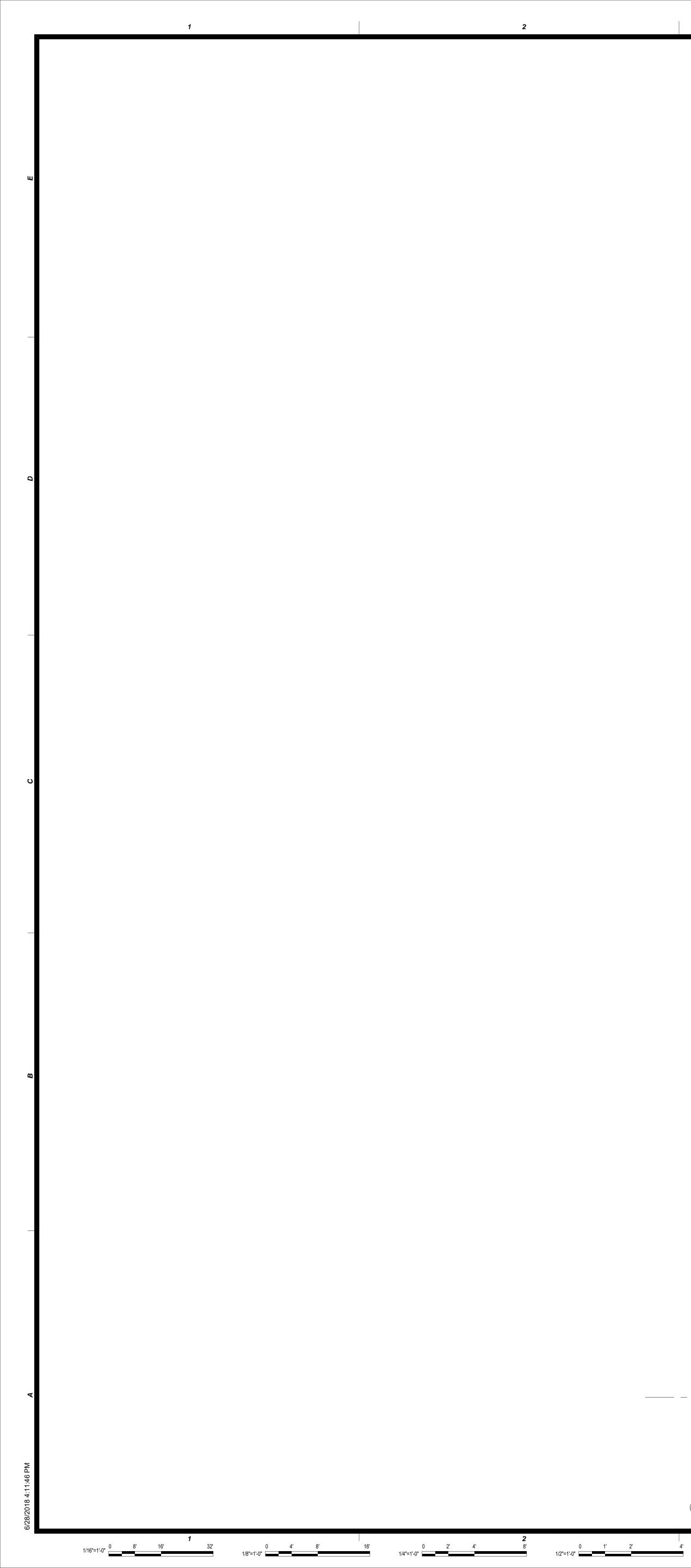
0 2' 4' 8' 1/4"=1'-0" 16'

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

				3								4		
4'	0	1'	2'	4" 41 0" 0	6"	1'	2'	0	3"	6"	1'	0	3"	6"
	3/4"=1'-0"			1"=1'-0"				1 1/2"=1'-0"	_			3"=1'-0"		

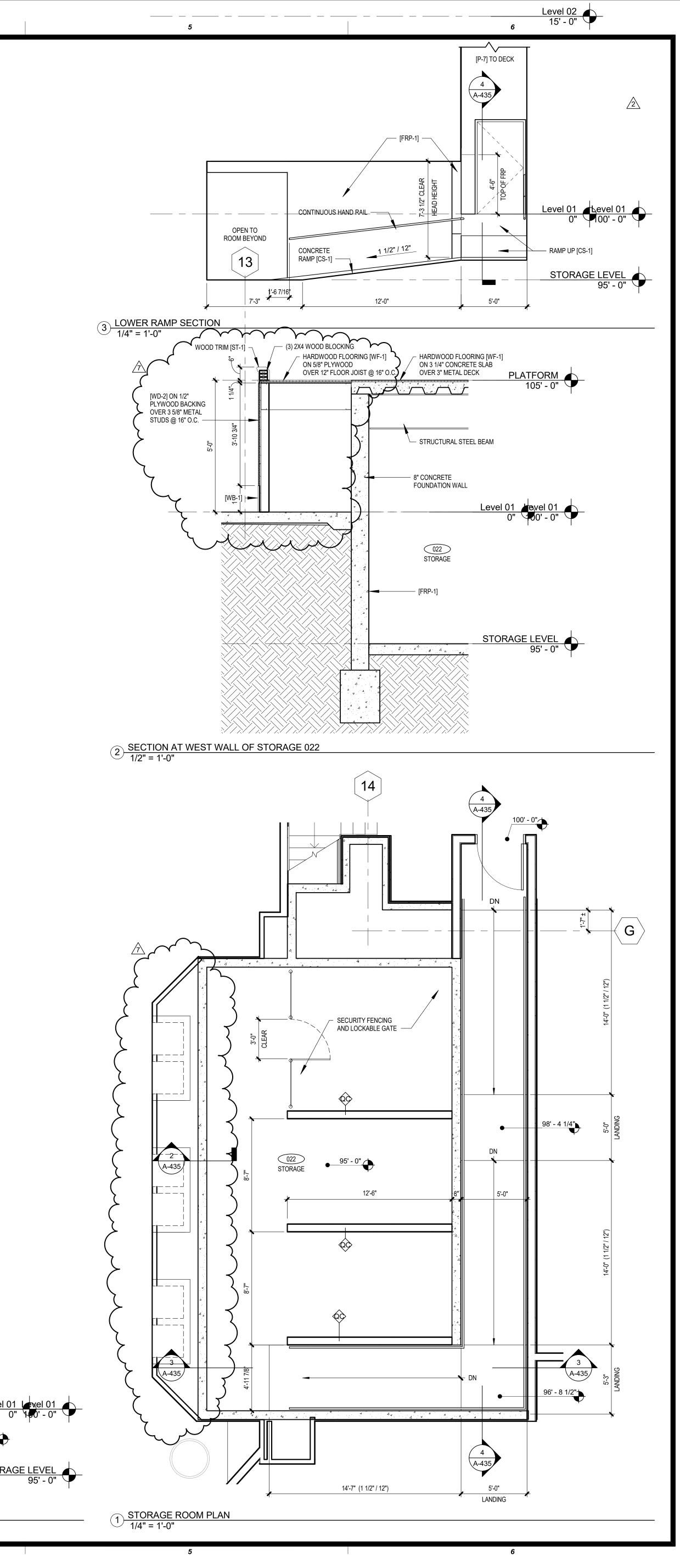


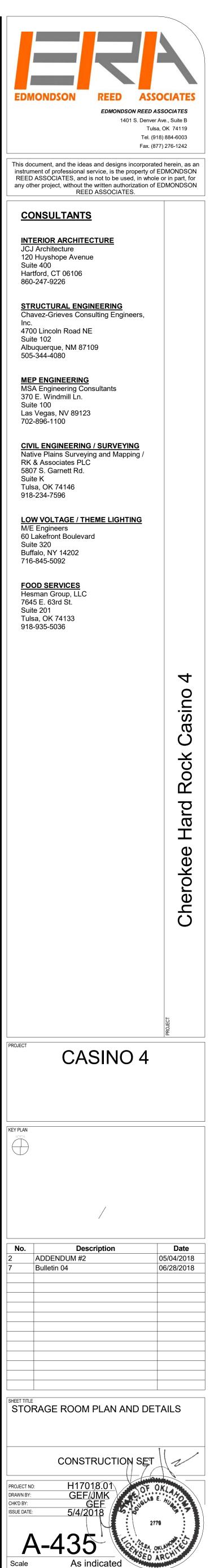




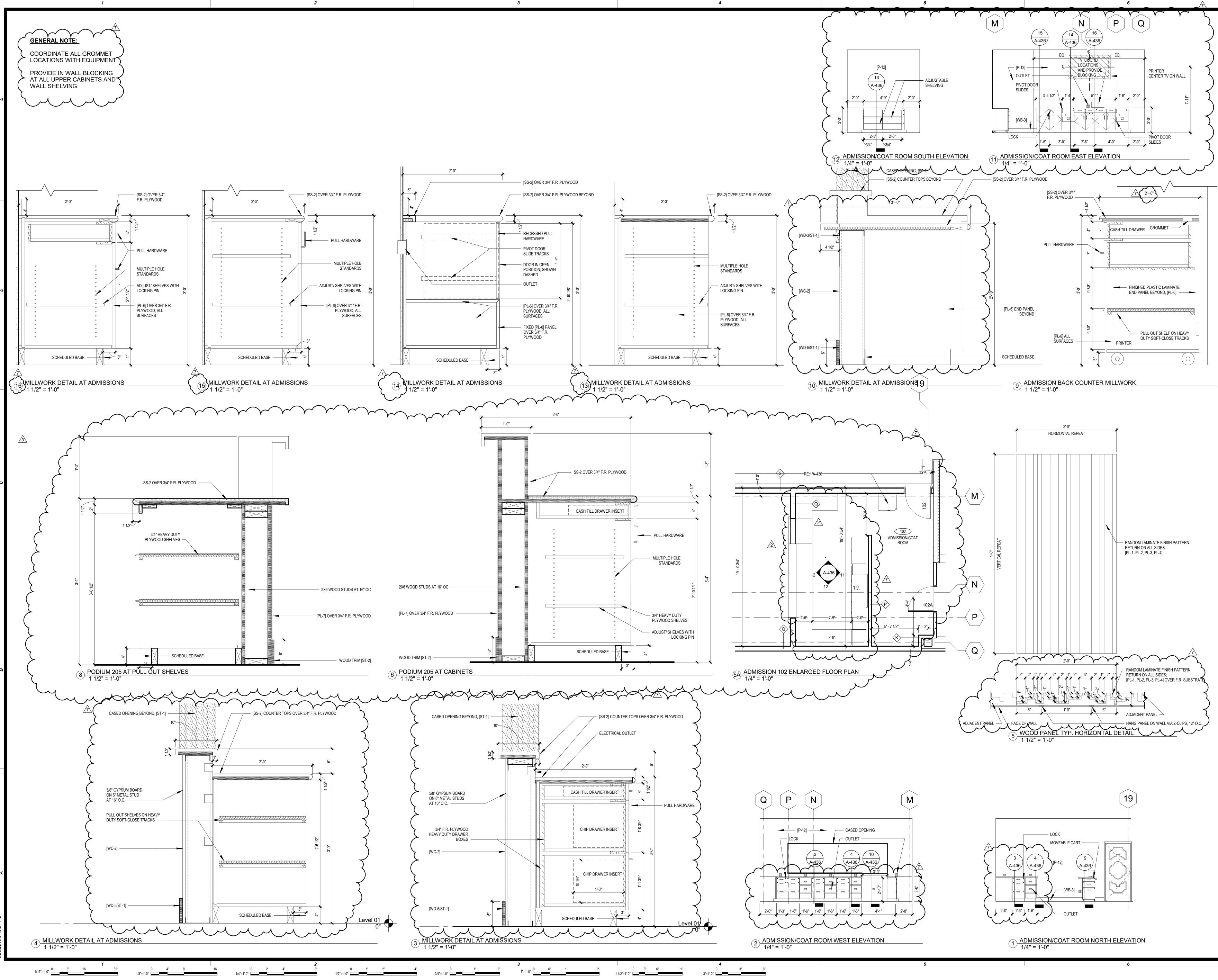
(4) UPPER RAMP SECTION 1/4" = 1'-0"

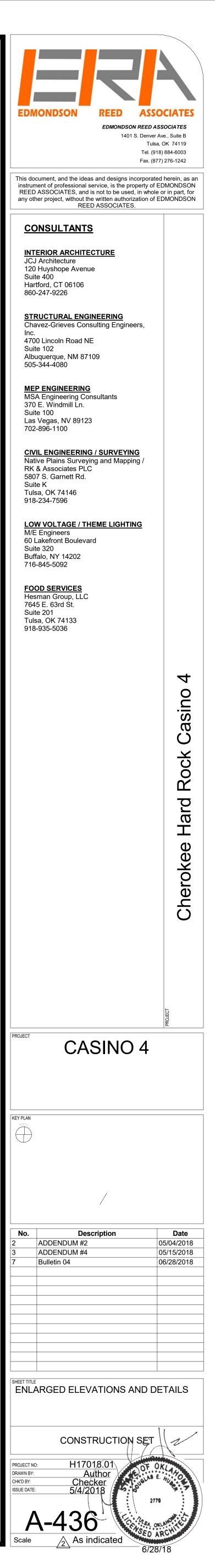
G					
			[P-7] WALLS TO DECK	_ -	
4'-6" TOP OF FRP 3'-0"	Ci H	ONTINUOUS AND RAIL	FRP-1] ALL WALLS	FRP	
3 -0 -0	1 1/2" / 12"			8'-0" TOP OF FRP	Level 01
			<u>1 1/2" / 12"</u>	30"	96' - 6" (
	RAMP TO STORAGE ROOM [CS-1]				STORA
1'-0"	14'-0"	5'-0"	14'-0"	4'-11 7/8"	2

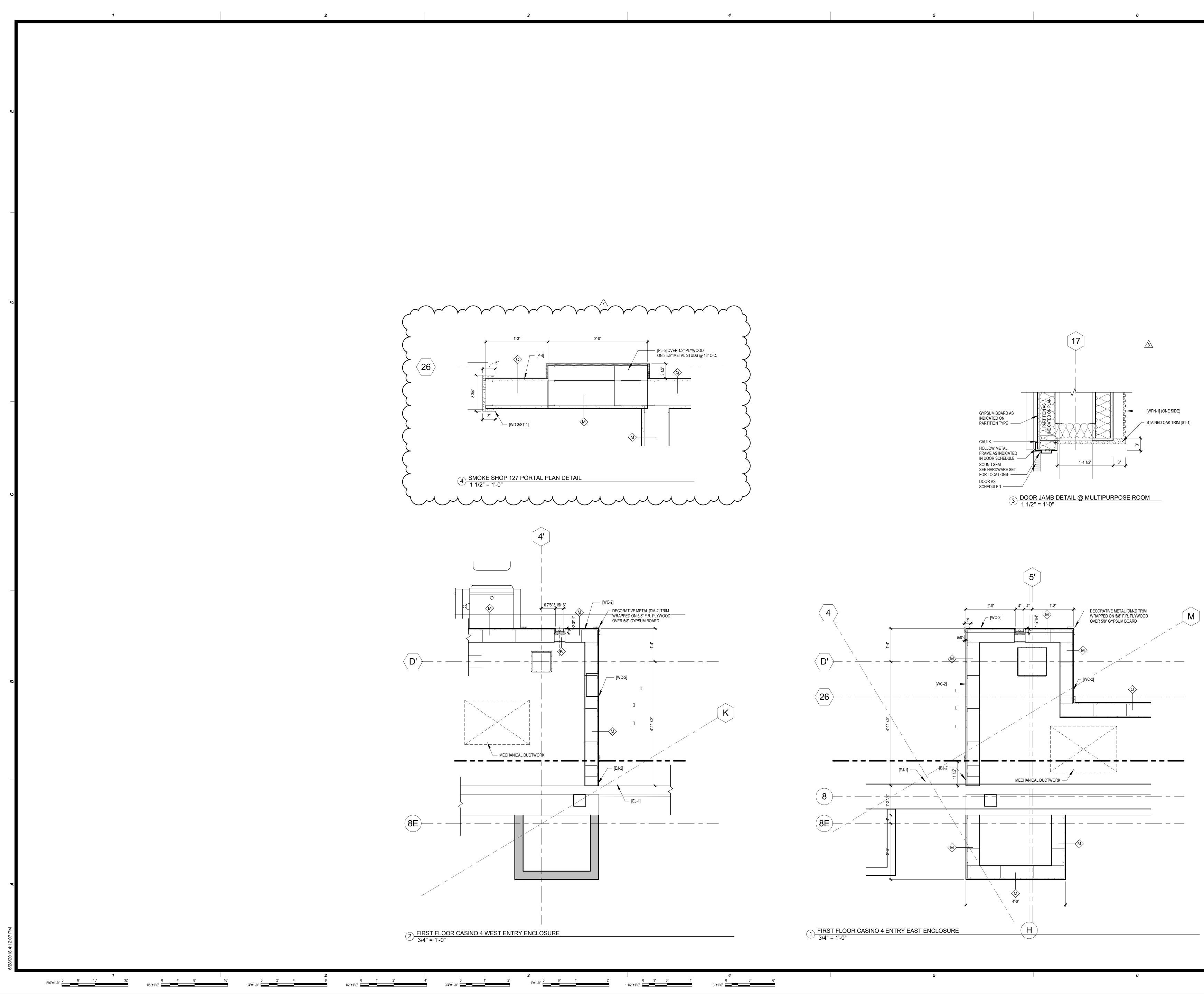




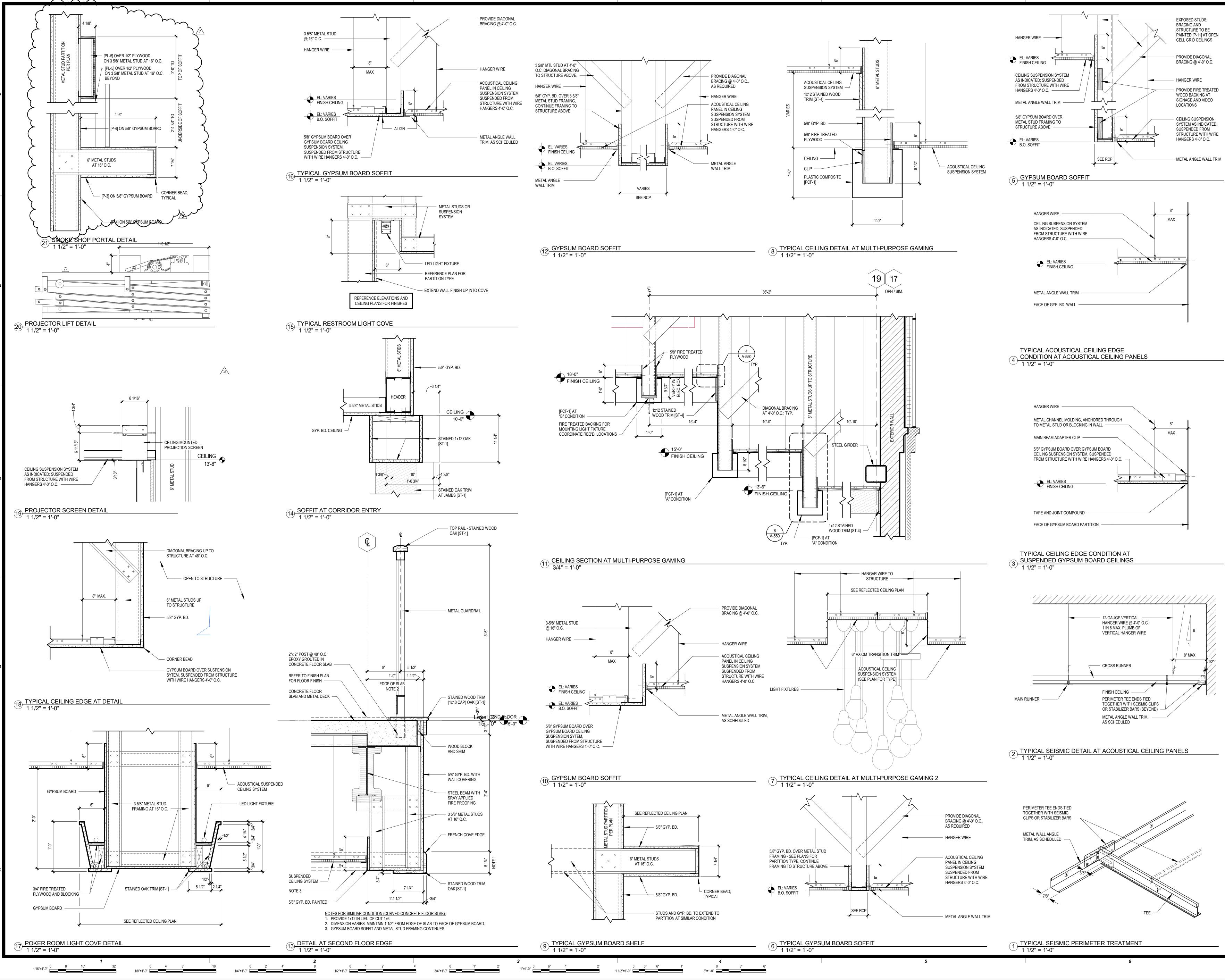
6/28/18

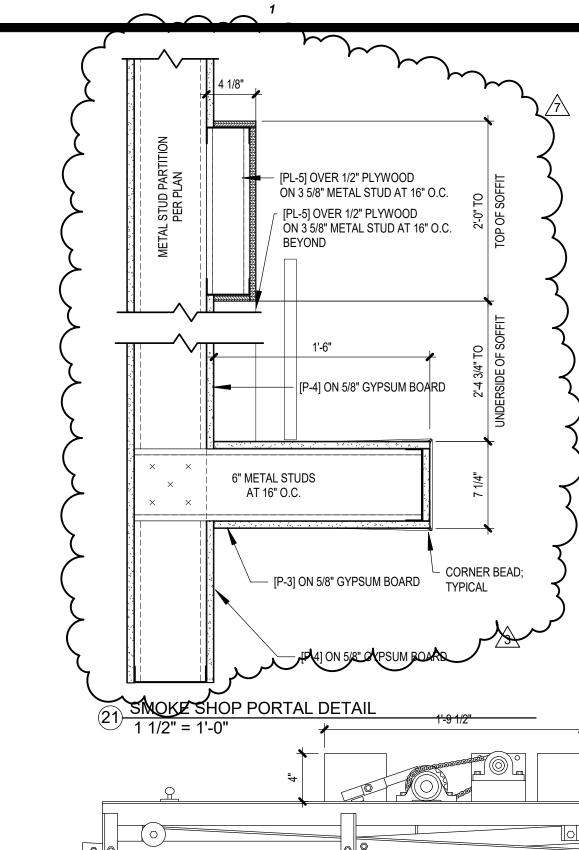


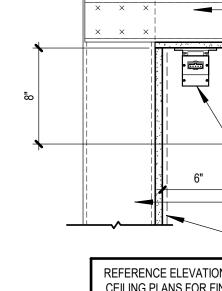


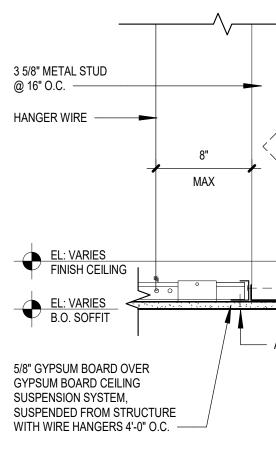


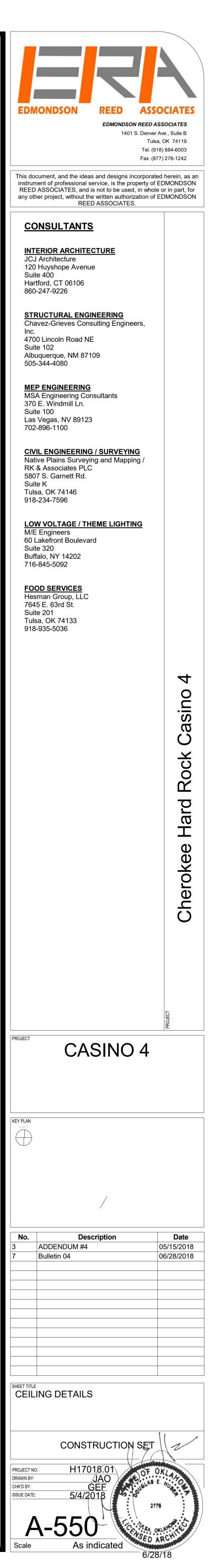


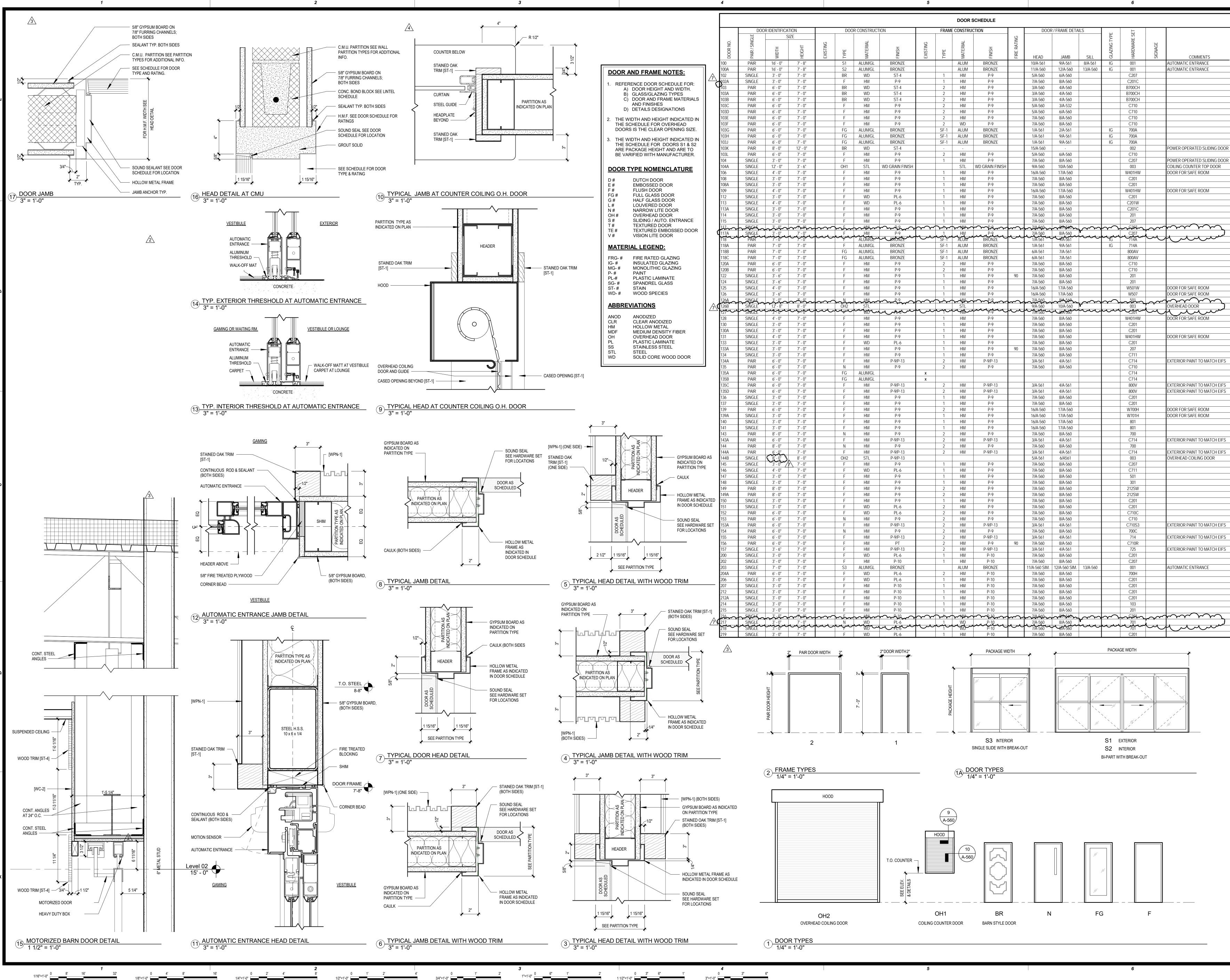


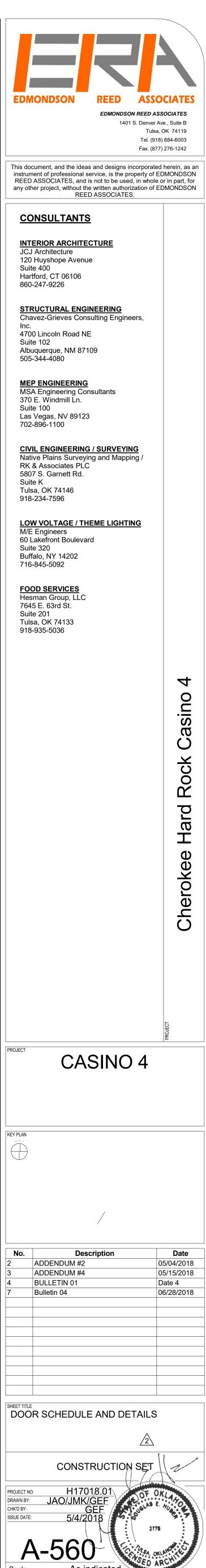




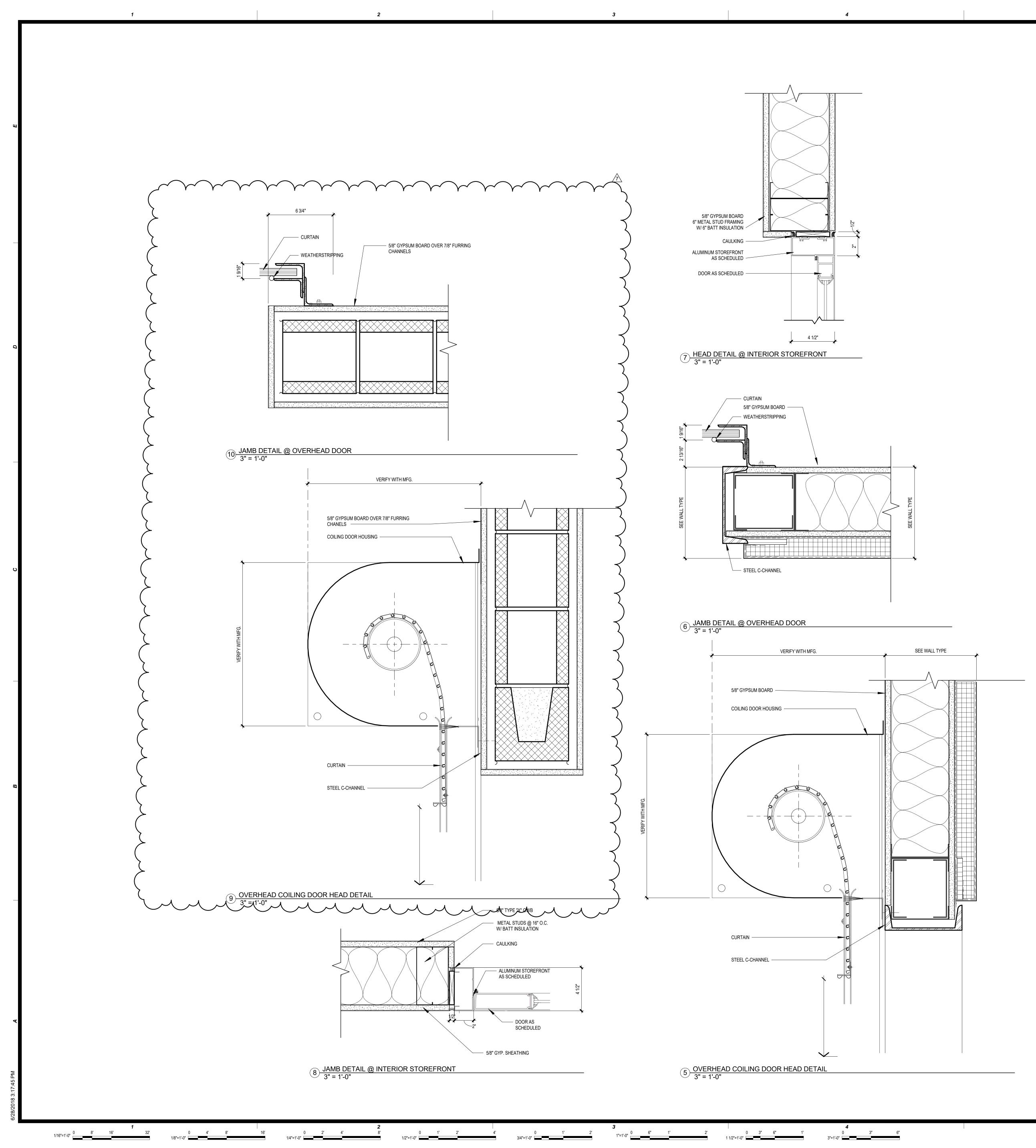


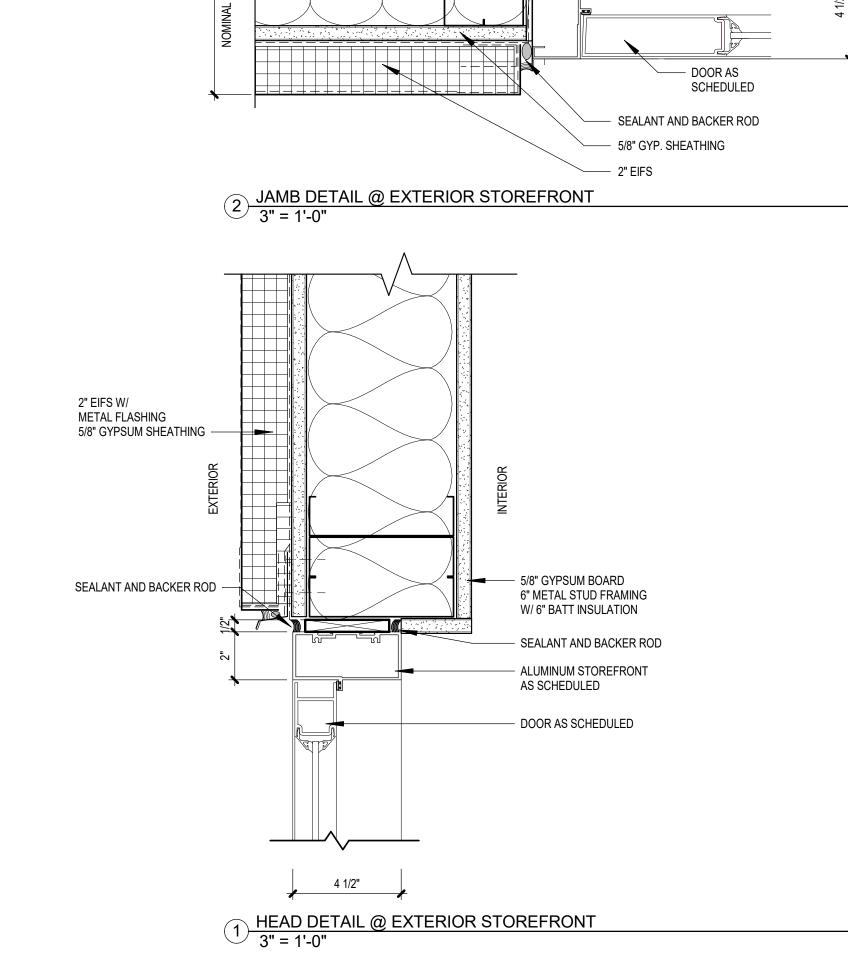




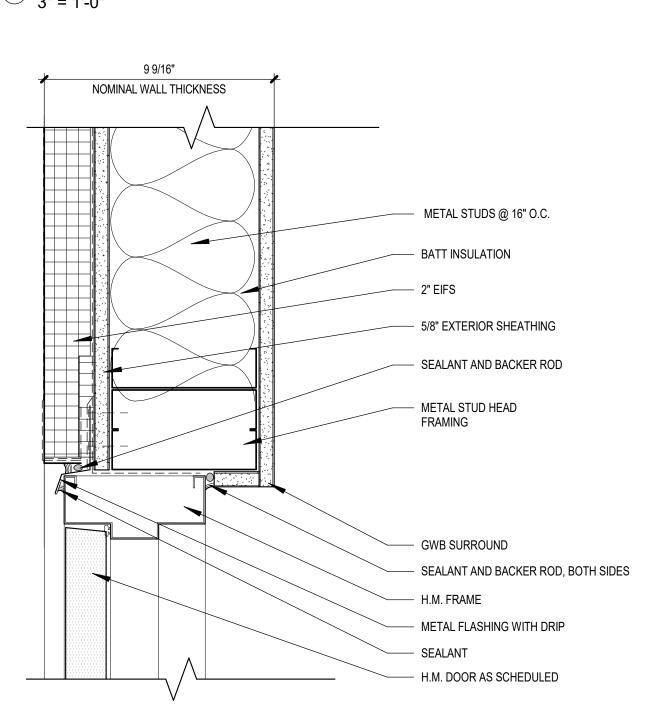


As indicate





3 HOLLOW METAL DOOR HEAD @ EXTERIOR WALL3" = 1'-0"



- 5/8" TYPE "X" GWB

METAL STUDS @ 16" O.C.
 W/ BATT INSULATION

- SEALANT AND BACKER ROD

- ALUMINUM STOREFRONT AS SCHEDULED



