

05/24/2021 Author Checker

B. Non-rated steel frames. C. Fire-rated steel doors 1.2 REFERENCES A. Steel Door Institute Standard: 1. ANSI/SDI-100 - Standard Steel Doors and Frames. B. ASTM International Standard: 1. ASTM A653 - Standard Specifications for Steel Sheet, Zinc-coated (Galvanized), or Zinc-Alloy-coated (Galvanneated) by the Hot-Dip Process. 1.3 RELATED SECTIONS A. Section 08 71 00 - Finish Hardware. 1.4 SUBMITTALS A. In accordance with Section 01 33 00. B. Indicate elevations, internal reinforcement, closure method and finish. C. Indicate configurations, location of cutouts for hardware reinforcement, finish and installation.

1.5 QUALITY ASSURANCE A. Fire rated assemblies shall be manufactured in accordance with Underwriters Laboratories established procedures and shall bear the appropriate labels for each application. 1.6 DELIVERY, STORAGE AND HANDLING

A. Conform to requirements of ANSI/SDI-100 3. In accordance with Section 01 66 00.

C. Package items individually; label and identify package with door opening code to match hardware 1.7 WARRANTY

A. Provide 5 year warranty to commence with final completion of the job.

PART 2 - PRODUCTS 2.1 ACCEPTABLE MANUFACTURERS

PART 1 GENERAL

A. Exterior Door and Frames: Curries Co., Steelcraft or Owner approved equal. 2.2 MATERIALS

A. Hollow Metal Doors: Galvanized steel in accordance with ASTM A653, 1-3/4 inch, flush metal door. 1. Exterior door: 16 gage. 2. Interior door: 18 gage. Interior and Exterior Frames: 16 gage galvanized.

C. Core material: 1. Nonlabeled doors or labeled doors, polystyrene foam core, self-extinguishing, non-toxic in

2. Fire labeled doors with temperature rise rating to have a mineral fiber core sufficient to obtain a 250 degree F temperature rating. 3 FINISH FOR DOORS AND FRAMES

A. All surfaces of the door and frame shall receive a factory applied coat of baked-on rust-inhibiting 3. Field Finish: In accordance with Section 09 96 00 color as selected by Owner.

2.4 FABRICATION A. Fabricate all doors and frames in accordance with ANSI/SDI-100: 1. Classification: SDI Level 2 – Model 1.

3. Prepare doors to receive finish hardware per schedule in Section 08 71 00. C. Provide frames with a minimum of three anchors per jamb suitable for the adjoining wall construction, and at least one base anchor. Frames over 7-foot 6 inches shall be provided with an additional anchor per jamb.

PART 3 - INSTALLATION 3.1 DOOR INSTALLATION

A. Install doors plumb and level in accordance with ANSI/SDI-100 and DHI. B.Maximum clearances, unless otherwise specified: 1. Between door and frame: 1/8 inch. 2. Between meeting edge of pairs of doors: 3/16 inch.

3. Between bottom of door and frame: 3/4 inch. 4. Between the face of the door and the stop: 1/16 inch to 3/32 inch. 2.2 FRAME INSTALLATION

A. Install frames plumb and level in accordance with ANSI/SDI-100 and DHI. 3. Tolerances: 1. Plumbness: 1/16 inch maximum.

2. Levelness: 1/16 inch maximum. 3. Maximum: 1/16 inch allowable tolerance on total opening. C. Coordinate with wall construction for anchor placement.

END OF SECTION 08 11 00

SECTION 08 14 16 - FLUSH WOOD DOORS

PART 1 GENERAL 1.1 SECTION INCLUDES A. Non-rated wood doors.

B. Fire-rated wood doors.

1.2 REFERENCES A. ANSI A117.1 – Accessible and Usable Buildings and Facilities B. ANSI 208.1 – Wood Particleboard

C. UL 10C – Positive Pressure Fire Tests of Door Assemblies: UL - 1784 Standard for Air Leakage Tests of Door Assemblies. D. Window and Door Manufacturers Association – ANSI/WDMA I.S.1-A Architectural Wood Flush Doors

1.3 RELATED SECTIONS A. Section 08 11 00 - Metal Doors and Frames B. Section 08 71 00 – Finish Hardware. 1.4 SUBMITTALS

A. In accordance with Section 01 33 00. B. Product Data: For each type of door and finish. 1. Core and edge construction. Fire rated doors.

Finishes. Samples for factory-finished doors. D. Shop Drawings and Schedule:

Glazed openings.

1.Use same unit designations used in Contract Documents. Hardware preparation. 3. Glazed openings

1.5 QUALITY ASSURANCE A. Fire rated assemblies shall be manufactured in accordance with Underwriters Laboratories established procedures and shall bear the appropriate labels for each application.

1.6 DELIVERY, STORAGE AND HANDLING A. Package factory-finished doors individually in manufacturer's standard plastic bags, stretch wrap, or cardboard cartons.

B. Store doors inside building in clean, dry location. C. Mark each door on top rail with opening number used on Shop Drawings.

A. Provide 5 year warranty to commence with final completion of the job.

2.1 MANUFACTURERS: ONE OF THE FOLLOWING: A. Basis of design: Masonite Architectural, Aspiro Series – Choice Laminates/ High-Pressure Decorative Laminates.

B. Eggers Industries. C. VT Industries Inc. 2.2 DOOR CONSTRUCTION, GENERAL

A. Quality Standard: WDMA I.S.1-A B. Fire-Rated Wood Doors: Labeled by a testing and inspecting agency acceptable to authorities having

jurisdiction based on testing at positive pressure according to NFPA 252 or UL 10C. C. Certified Wood: Wood doors shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification." D. Low-Emitting Materials: Provide doors made with adhesives and composite wood products that do

not contain urea formaldehyde. E. WDMA I.S.1-A Performance Grade: Performance Grade: Extra Heavy Duty.

omply with DHI-WDHS-3

2. Aesthetic Grade: Premium. F. Particleboard-Core Doors: Provide structural composite lumber cores instead of particleboard cores for doors with exit devices. G. Fire-Protection-Rated Doors: Provide core specified or mineral core as needed to provide fire-

protection rating indicated. Provide the following for mineral-core doors:

1. Composite blocking where required to eliminate through-bolting hardware. 2. Laminated-edge construction. Formed-steel edges and astragals for pairs of doors.

2.3 FLUSH WOOD DOORS A. Doors for Transparent Finish: 1. Interior Solid-Core Doors: Premium grade, particleboard or structural composite lumber

 a. Faces: Grade A, Match Existing. b. Veneer Matching: Match Existing. 2.4 FABRICATION AND FINISHING Factory fit doors to suit frame-opening sizes indicated and to comply with clearances specified. B. Factory machine doors for hardware that is not surface applied. Locate hardware to

SECTION 08 14 16 - FLUSH WOOD DOORS - CONTINUED C. Cut and trim openings to comply with referenced standards.

1. Sheen: Match Existing.

PART 3 EXECUTION

3.1 INSTALLATION

PART 1 GENERAL

PART 2 PRODUCTS

having jurisdiction.

B. Framing Systems:

2.3 ACCESSORIES

PART 3 EXECUTION

3.1 INSTALLATION

structural movement.

PART 1 GENERAL

1.02 REFERENCES

PART 2 PRODUCTS

2.02 MATERIALS

2.03 ACCESSORIES

PART 3 EXECUTION

3.01 EXAMINATION

3.02 INSTALLATION

Completion.

PART 1 GENERAL

Ceramic Tile Installation.

SECTION 09 29 00 GYPSUM BOARD

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data.

A. Verification of Conditions:

2.01 MANUFACTURERS

A. Georgia-Pacific Gypsum LLC:

2. Width: 4 feet.

Length: 8 feet.

1.Thickness: 5/8 inch.

4. Weight: 2.5 lb/sq. ft.

11. Acceptable Products:

A. Screws: ASTM C1002, with corrosion resistant treatment.

1. Manufacturer's Recommendations:

installer, to begin installation of work of this section.

a. Current "Product Catalog", Georgia-Pacific Gypsum.

Edges: Square.

A. ASTM International (ASTM)

1.01 SUMMARY

. Suspension Systems

1.1 SECTION REQUIREMENTS

2.1 PERFORMANCE REQUIREMENTS

2.2 METAL FRAMING AND SUPPORTS

A. Steel Framing Members, General: ASTM C 754.

2. Flat Strap and Backing: 0.033 inch thick.

double strand of 0.048-inch- diameter wire.

A. General: Comply with referenced installation standards.

A. Install steel framing to comply with ASTM C 754."

bars, toilet accessories, furnishings, or similar construction.

E. Install suspension systems level to within 1/8 inch in 12 feet.

Using the Robinson-Type Floor Tester.

Interior Coatings in an Environmental Chamber.

A. Fiberglass-Mat Faced Gypsum Backing Board: ASTM C1178, Type X:

6. Surfacing: Coated fiberglass mat on face, back, and long edges.

9. Permeance (ASTM E96): Not more than 1.0 perms when tiled.

10. Robinson Floor Test Rating (ASTM C627): Light commercial.

7. Mold Resistance (ASTM D3273): Not less than 10, in a test as manufactured.

a. 5/8-inch DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

1. Inspection: Verify that project conditions and substrates are acceptable, to the

A. Protect gypsum board installations from damage and deterioration until the date of Substantial

END OF SECTION 09 28 16

A. General: In accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for

8. Microbial Resistance (ASTM D6329): Will not support microbial growth.

b. 5/8 inch Durock Glass Mat Tile Backer, USG Approve equal.

1) Armstrong World Industries, Inc.

3) United States Gypsum Company.

other properties required to fasten steel members to substrates.

1. Gypsum Plaster Assemblies: Also comply with ASTM C 841.

4. Gypsum Board Assemblies: Also comply with ASTM C 840.

2. Portland Cement Plaster Assemblies: Also comply with ASTM C 1063.

B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab

C. Isolate steel framing from building structure, except at floor, to prevent transfer of loading imposed by

END OF SECTION 09 22 16

2. ASTM C840 Standard Specification for Application and Finishing of Gypsum

Materials to Support Microbial Growth Using Static Environmental Chambers.

7. ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials.

B. Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current

3. ASTM C1002 Standard Specification for Steel Self-Piercing Tapping Screws for the

1. Where studs are installed directly against exterior walls, install isolation strip between studs

1. ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems

Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.

5. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of

4. ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel.

6. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor

1. Fiberglass-Mat Faced Gypsum Backing Board: 5/8-inch DensShield Fireguard Tile Backer.

3. Gypsum Veneer Plaster Assemblies: Also comply with ASTM C 844.

D. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.

A. Section Includes: Fiberglass-mat faced, moisture resistant gypsum backer board.

SECTION 09 28 16 - GLASS-MAT FACED GYPSUM BACKING BOARDS

2) Chicago Metallic Corporation.

A. Submittals: Product Data.

1. Trim light openings with moldings indicated. 2. Factory install glazing in doors indicated to be factory finished. 3. Factory install louvers in prepared openings

complying with WDMA TR-6, catalyzed polyurethane for grade specified for doors.

1. 1/8 inch (3.2 mm) at heads, jambs, and between pairs of doors.

3. 1/4 inch (6.4 mm) from bottom of door to top of threshold.

1. Install fire-rated doors to comply with NFPA 80.

4. Comply with NFPA 80 for fire-rated doors.

SECTION 09 22 16 NON-STRUCTURAL METAL FRAMING

B. Clearances: As follows unless otherwise indicated:

A. Install doors to comply with manufacturer's written instructions and WDMA I.S.1-A, and as indicated.

2. 1/8 inch (3.2 mm) from bottom of door to top of decorative floor finish or covering.

C. Repair, refinish, or replace factory-finished doors damaged during installation, as directed by

END OF SECTION 08 14 16

A. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in

B. STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies

per ASTM E 90 and classified per ASTM E 413 by a qualified independent testing and inspecting

2. Protective Coating: ASTM A 653/A 653M, G40, hot-dip galvanized zinc coating.

3. Grid Suspension System for Gypsum Board Ceilings: Interlocking, direct-hung system.

assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities

1. Steel Sheet Components: ASTM C 645. Thickness specified is minimum uncoated base-

1. Studs and Runners: In depth indicated and 0.033 inch thick unless otherwise indicated.

1. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch diameter, or

2. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, and 0.162-inch

a. Manufacturers: Subject to compliance with requirements, provide products by one of the

1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and

PART 2 - PRODUCTS

2.1 PPERFORMANCE REQUIREMENTS A. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities D. Factory finish doors indicated for transparent finish with stain and manufacturer's standard finish having jurisdiction.

> ASTM E 90 and classified per ASTM E 413 by a qualified independent testing and inspecting agency. 2.2 PANEL PRODUCTS A. Provide in maximum lengths available to minimize end-to-end butt joints. B. Interior Gypsum Board: ASTM C 1396/C 1396M, in thickness indicated, with manufacturer's standard

edges. Regular type unless otherwise indicated Foil backed where indicated Type X where indicated Type as required for specific fire-resistance-rated assemblies Sag-resistant type for ceiling surfaces. 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following: a. CertainTeed Corporation.

b. Georgia-Pacific Building Products. c. United States Gypsum Company. 2.3 ACCESSORIES

SECTION 09 29 00 GYPSUM BOARD - CONTINUED

A. Trim Accessories: ASTM C 1047, formed from galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet. For exterior trim, use accessories formed from hot-dip galvanized-steel sheet, plastic, or rolled zinc.

1. Provide NO-COAT® 90-degree cornerbead at outside corners unless otherwise indicated. 2. Provide LC-bead (J-bead) at exposed panel edges. 3. Provide control joints where indicated.

B. Joint-Treatment Materials: ASTM C 475/C 475M Joint Tape: Paper unless otherwise recommended by panel manufacturer.

2. Joint Compounds: Setting-type or Drying-type. 3. Cementitious Backer Unit Joint-Treatment Materials: Products recommended by cementitious backer unit manufacturer. C. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels

to continuous substrate. 1. Low-Emitting Materials: Comply with current VOC rules published by the SCAQMD. D. Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.

I. Low-Emitting Materials: Comply with current VOC rules published by the SCAQMD. E. Sound-Attenuation Blankets: ASTM C 665, Type I (unfaced).

PART 3 EXECUTION 3.1 INSTALLATION

A. Install gypsum board to comply with ASTM C 840. 1. Isolate gypsum board assemblies from abutting structural and masonry work. Provide edge trim and acoustical sealant.

2. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws. 3. Multilayer Fastening Methods: Fasten base layers and face layer separately to supports with screws with screws, and face layers to base layers with adhesive and supplementary fasteners. B. Install cementitious backer units to comply with ANSI A108.11. C. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.

D. Finishing Gypsum Board: ASTM C 840. 1. At concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies, provide Level 1 finish: Embed tape at joints. 2. At substrates for tile, provide Level 2 finish: Embed tape and apply separate first coat of joint

compound to tape, fasteners, and trim flanges. 3. Unless otherwise indicated, provide Level 3 finish: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. 4. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture free of starved spots or other evidence of thin application or of application

5. At public lobby, provide Level 4 smooth finish at all exposed gypsum board. No texture.

END OF SECTION 09 29 00 **SECTION 09 30 00 TILING**

PART 1 GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and Samples. B. Obtain tile of each type and color or finish from same production run for each contiguous area C. Deliver and store packaged materials in original containers with seals unbroken and labels intact until | E. Product List: For each product indicated, include the following: time of use. Comply with requirements in ANSI A137.1 for labeling ceramic tile packages.

PART 2 PRODUCTS 2.1 CERAMIC TILE A. Ceramic tile that complies with Standard grade requirements in ANSI A137.1, "Specifications for Ceramic Tile."

2.2 STONE THRESHOLDS A. Stone Threshold: 1. Stone Type: Marble, complying with ASTM C 615. 3. Finish: Polished.

4. Fabricate thresholds to be not more than 1/2 inch (12.7 mm) above adjoining finished floor surfaces, with transition edges beveled on a slope of no greater than 1:2. 2.3 INSTALLATION MATERIALS A. Fiberglass Faced Gypsum Tile Backer Board: ASTM C1178, 5/8" thick.

B. Low-Emitting Materials: Adhesives and fluid-applied waterproofing membranes shall have a VOC content of 65 g/L or less.

C. Setting and Grouting Materials: Comply with material standards in ANSI's "Specifications for the Installation of Ceramic Tile" that apply to materials and methods indicated. 1. Thin-Set Mortar Type: Latex-portland cement.

a. Manufacturers: Basis of design: 1) Laticrete International, Inc.: Laticrete 4-XLT – Large and Heavy Tile Mortar 2.Grout Type: Polymer modified, unless otherwise indicated. a. Manufacturers: One of the following:

1) Laticrete International, Inc. 2) MAPEI Corporation. 3. Grout Type: Water-cleanable epoxy, required at restrooms. a. Manufacturers: One of the following: 1) Laticrete International, Inc. 2) MAPEI Corporation.

PART 3 EXECUTION 3.1 INSTALLATION A. Product Data: Manufacturer's specifications and installation instructions for each product specified.

A. Comply with TCA's "Handbook for Ceramic Tile Installation" for TCA installation methods specified in tile installation schedules. Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

1. For installations indicated below, follow procedures in ANSI's "Specifications for the Installation of Ceramic Tile" for providing 95 percent mortar coverage.

a. Tile floors in wet areas. b. Tile floors composed of tiles 8 by 8 inches (200 by 200 mm) or larger. B. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile. C. Lay tile in grid pattern unless otherwise indicated. Align joints where adjoining tiles on floor, base,

walls, and trim are the same size. D. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot (1:50) toward drains.

E. Install waterproofing to comply with ANSI A108.13. F. Do not install tile over waterproofing until waterproofing has cured and been tested to determine that it G. Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated. At

locations where mortar bed (thickset) would otherwise be exposed above adjacent floor finishes, set thresholds in latex-portland cement mortar (thin set). H. Interior Floor Tile Installation Method(s):

1. Over Concrete Subfloors: TCA F112 (cement mortar bed bonded to concrete). 2. Over Waterproof Membranes on Concrete Subfloors: TCA F121 (cement mortar bed). I.Interior Wall Tile Installation Method(s):

1. Over Metal Studs or Furring: TCA W245 with thin-set mortar (thin-set mortar on glass-mat, water-resistant backer board.

END OF SECTION 09 30 00

SECTION 09 51 13 - ACOUSTICAL PANEL CEILING

PART 1 GENERAL 1.1 SECTION REQUIREMENTS A. Submittals: Product Data and Samples. **PART 2 PRODUCTS**

2.1 PERFORMANCE REQUIREMENTS A. Seismic Standard: Acoustical panel ceiling shall withstand the effects of earthquake motions determined according to ASCE/SEI 7 as indicated on drawings. 2.2 ACOUSTICAL PANELS A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products

that may be incorporated into the Work include, but are not limited to, the following:

1. United States Gypsum Company. 2. Armstrong World Industries, Inc. 3. CertainTeed Corporation.

SECTION 09 51 13 - ACOUSTICAL PANEL CEILING - CONTINUED B. ACT-1 - Classification: As follows, per ASTM E 1264: 1. Refer to drawings. 2. CAC: Not less than 33 3. NRC: Not less than 0.60 4. Surface-Burning Characteristics: Class A. B. STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per | C. ACT-2 - Classification: As follows, per ASTM E 1264: 1. Refer to drawings. 2. CAC: Not less than 35 3. NRC: Not less than 0.80 4. Surface-Burning Characteristics: Class A.

E. Edge Detail: Square Reveal sized-to-fit exposed flange of suspension system. F. Thickness: 15/16 inch.

G. Modular Size: 24 by 48 inches. 2.3 CEILING SUSPENSION SYSTEM A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

United States Gypsum Company.

2. Armstrong World Industries, Inc. CertainTeed Corporation. B. Ceiling Suspension System: Wide Narrow-face, direct-hung system; ASTM C 635, intermediate heavy-duty structural classification.

1. Face Design: Flat, flush Flanges formed with an integral center reveal. 2. Face Finish: Painted white Painted in color as selected Plated with metallic finish. C. Attachment Devices: Sized for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated. Comply with seismic design requirements. D. Wire Hangers, Braces, and Ties: Zinc-coated carbon-steel wire; ASTM A 641/A 641M, Class 1 zinc coating, soft temper

1. Size: Provide yield strength at least 3 times the hanger design load (ASTM C 635, Table 1, Direct Hung), but not less than 12ga. wire.

PART 3 - EXECUTION

A. Install acoustical ceilings to comply with ASTM C 636/C 636M and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook." 1. Fire-Rated Assembly: Install fire-rated ceiling systems according to tested fire-rated design. B. Install acoustical panels with undamaged edges and fit accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

axis of space with pattern parallel to short axis of space. END OF SECTION 09 51 13

SECTION 09 91 23 - INTERIOR PAINTING

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. Section includes surface preparation and the application of paint systems on the following interior substrates: 1. Concrete masonry units (CMU).

B Related Requirements: **1.3 ACTION SUBMITTALS**

Gypsum board.

A. Product Data: For each type of product. Include preparation requirements and application instructions. B. Sustainable Design Submittals:

1. Product Data for Credit EQ 4.2: For paints and coatings, including printed statement of VOC 2. Laboratory Test Reports: For paints and coatings, indicating compliance with requirements

for low-emitting materials. C. Samples for Initial Selection: For each type of topcoat product. D. Samples for Verification: For each type of paint system and in each color and gloss of topcoat. 1. Submit Samples on rigid backing, 8 inches square.

2. Label each coat of each Sample. 3. Label each Sample for location and application area.

1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. VOC content.

1.4 CLOSEOUT SUBMITTALS A. Coating Maintenance Manual: Provide coating maintenance manual including area summary with finish schedule, area detail designating location where each product/color/finish was used, product data pages, material safety data sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

1.5 QUALITY ASSURANCE A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution 1. Subject to compliance with requirements, approved mockups may become part of the

completed Work if undisturbed at time of Substantial Completion. 1.6 DELIVERY, STORAGE, AND HANDLING A. Delivery and Handling: Deliver products to Project site in an undamaged condition in manufacturer's original sealed containers, complete with labels and instructions for handling, storing, unpacking,

protecting, and installing. Packaging shall bear the manufacturer's label with the following information: Product name and type (description). Batch date. Color number.

VOC content. 5. Environmental handling requirements. 6. Surface preparation requirements.

7. Application instructions. B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F. 1. Maintain containers in clean condition, free of foreign materials and residue.

2. Remove rags and waste from storage areas daily. 1.7 FIELD CONDITIONS A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 PRODUCTS 2.1 MANUFACTURERS A. Approved Manufacturers: Subject to compliance with requirements, provide company products

indicated or comparable product from one of the following: 1. Sherwin-Williams. Vista Paint. Or equal.

B. Comparable Products: Comparable products of approved manufacturers will be considered in accordance with Section 016000 "Product Requirements," and the following: 1. Products are approved by manufacturer in writing for application specified 2. Products meet performance and physical characteristics of basis of design product including published ratio of solids by volume, plus or minus two percent.

C. Source Limitations: Obtain paint materials from single source from single listed manufacturer. 1. Manufacturer's designations listed on a separate color schedule are for color reference only and do not indicate prior approval. 2.2 PAINT, GENERAL A. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.

2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated. B. All paints and coatings wet-applied on site must meet the applicable VOC limits of the California Air Resources Board (CARB) 2007, Suggested Control Measure (SCM) for Architectural Coatings, or the South Coast Air Quality Management District (SCAQMD) Rule 1113, effective June 3, 2011.

1. Flat Paints and Coatings: 50 g/L. 2. Nonflat Paints and Coatings: 100 g/L. 3. Dry-Fog Coatings: 150 g/L. 4. Primers, Sealers, and Undercoaters: 100 g/L.

5. Industrial Maintenance Coatings: 250 g/L. 6. Stains: 250 g/L. 7. Wood Coatings: 275 g/L. 8. Floor Coatings: 100 g/L.

C. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers." D. Threshold: At least 90% by volume, for emissions; 100% for VOC content Complies with California Department of Health Services "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1-2101 (CA section 01350)

E. Colors: As indicated in a color schedule

SECTION 09 91 23 - INTERIOR PAINTING - CONTINUED

2.3 SOURCE QUALITY CONTROL A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure: 1. Owner will engage the services of a qualified testing agency to sample paint materials.

Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency. 2. Testing agency will perform tests for compliance with product requirements.

3. Owner may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 EXECUTION

3.1 EXAMINATION A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers. Where acceptability of substrate conditions is in question, apply samples and perform in-situ testing to verify compatibility, adhesion, and film integrity of new paint application.

1. Report, in writing, conditions that may affect application, appearance, or performance of paint.B. Substrate Conditions:

1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as

a. Concrete: 12 percent. b. Masonry (Clay and CMU): 12 percent. c. Wood: 15 percent. d. Gypsum Board: 12 percent.

C. Proceed with coating application only after unsatisfactory conditions have been corrected; application of

e. Plaster: 12 percent. 2. Gypsum Board Substrates: Verify that finishing compound is sanded smooth. 3. Plaster Substrates: Verify that plaster is fully cured. 4. Spray-Textured Ceiling Substrates: Verify that surfaces are dry.

coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-C. Arrange directionally patterned acoustical units as indicated on Drawings with pattern parallel to long applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any. C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated. D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.

1. Concrete Floors: Remove oil, dust, grease, dirt, and other foreign materials. Comply with SSPC-SP-13/NACE 6 or ICRI 03732. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceed that permitted in manufacturer's written instructions.

F. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer. G. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated

from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints. H. Aluminum Substrates: Remove loose surface oxidation I. Wood Substrates: 1. Scrape and clean knots, and apply coat of knot sealer before applying primer.

2. Sand surfaces that will be exposed to view, and dust off. 3. Prime edges, ends, faces, undersides, and backsides of wood. 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried. J. Cotton or Canvas Insulation Covering Substrates: Remove dust, dirt, and other foreign material that

might impair bond of paints to substrates. 3.3 APPLICATION A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual." 1. Use applicators and techniques suited for paint and substrate indicated. 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces.

Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.

4. Do not paint over labels of independent testing agencies or equipment name, identification, 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

B. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance. C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks. D. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and

Security Work: 1. Paint the following work where exposed in equipment rooms:

a. Equipment, including panelboards. b. Uninsulated metal piping. c. Uninsulated plastic piping. d. Pipe hangers and supports

other paintable jacket material.

e. Metal conduit.

f. Plastic conduit. g. Tanks that do not have factory-applied final finishes. h. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or

other paintable jacket material. 2. Paint the following work where exposed in occupied spaces: a. Equipment, including panelboards. b. Uninsulated metal piping.

 c. Uninsulated plastic piping. d. Pipe hangers and supports e. Metal conduit. f. Plastic conduit. g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or

h. Other items as directed by Architect. 3. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces. 3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness. 1. Contractor shall touch up and restore painted surfaces damaged by testing. 2. If test results show that dry film thickness of applied paint does not comply with paint

manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations. 3.5 CLEANING AND PROTECTION A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces. C. Protect work of other trades against damage from paint application. Correct damage to work of other

trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition. D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE A. CMU Substrates: 1. Water-Based Light Industrial Coating System - Semigloss:

a. Block Filler: Block filler, latex, interior/exterior. b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat. c. Topcoat: Light industrial coating, interior, water based, semigloss: Pre-Catalyzed Water

Based Epoxy, Semigloss. B. Metal Substrates (Aluminum, Steel, Galvanized Steel): 1. Water-Based Light Industrial Coating System: a. Prime Coat: Primer, rust-inhibitive, water based.

c. Topcoat: Light industrial coating, interior, water based, semigloss: Pre-Catalyzed Water Based Epoxy, Semigloss. C. Gypsum Board Substrates:

1. Water-Based Light Industrial Coating System: a. Prime Coat: PVA Primer sealer, latex, interior. b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat. c. Topcoat: Light industrial coating, interior, water based, semigloss: Pre-Catalyzed Water Based Epoxy, Semigloss.

b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat.

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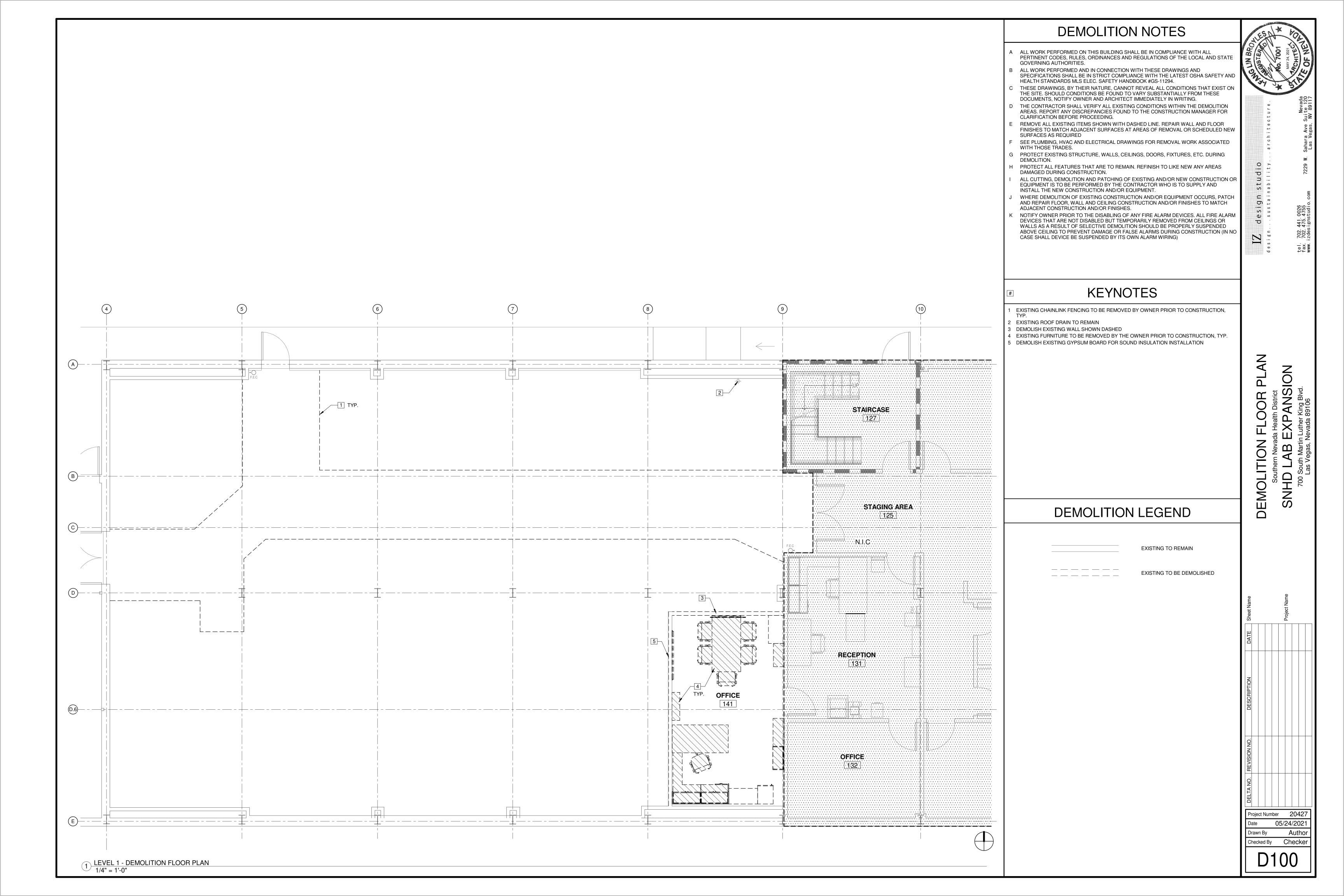
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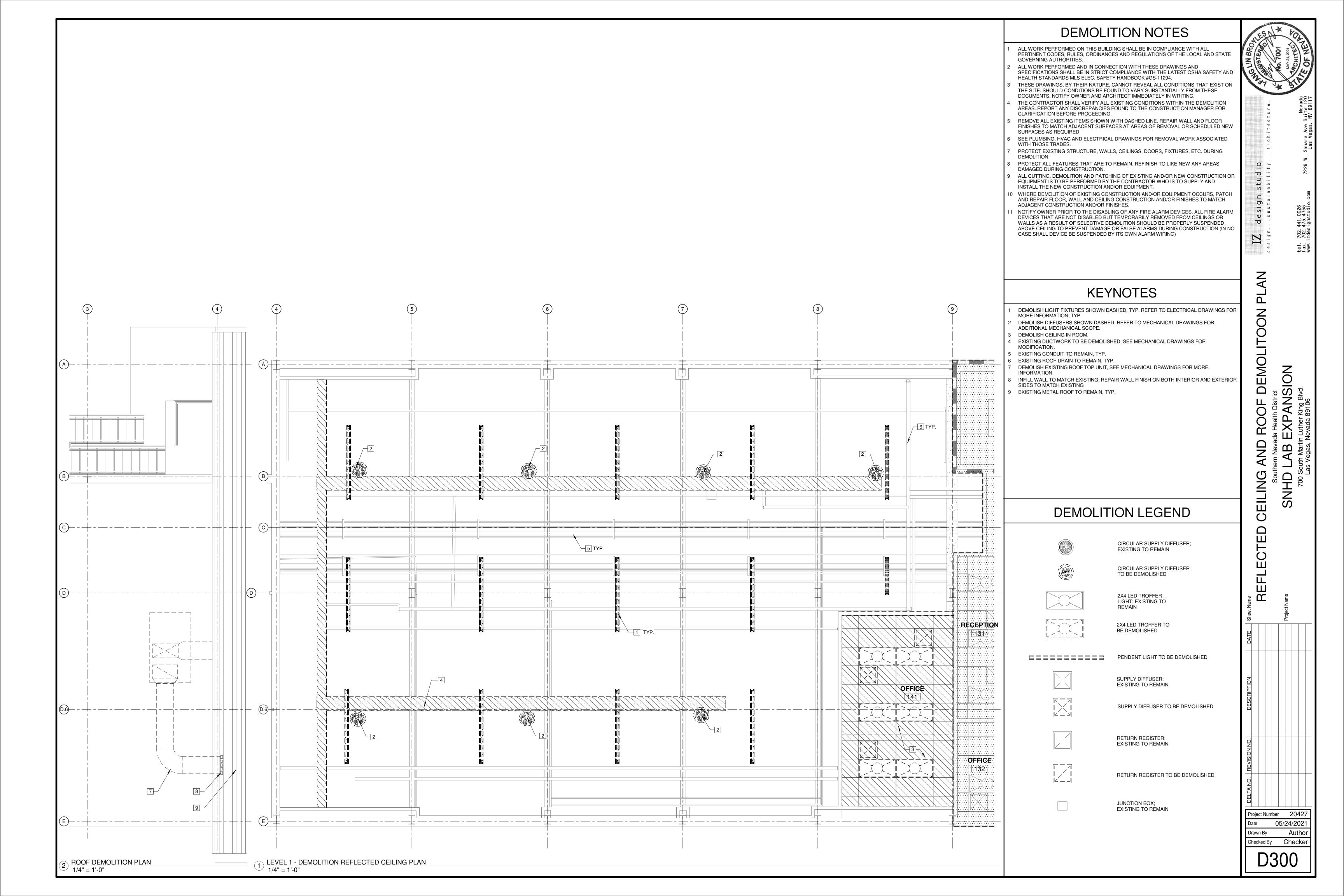
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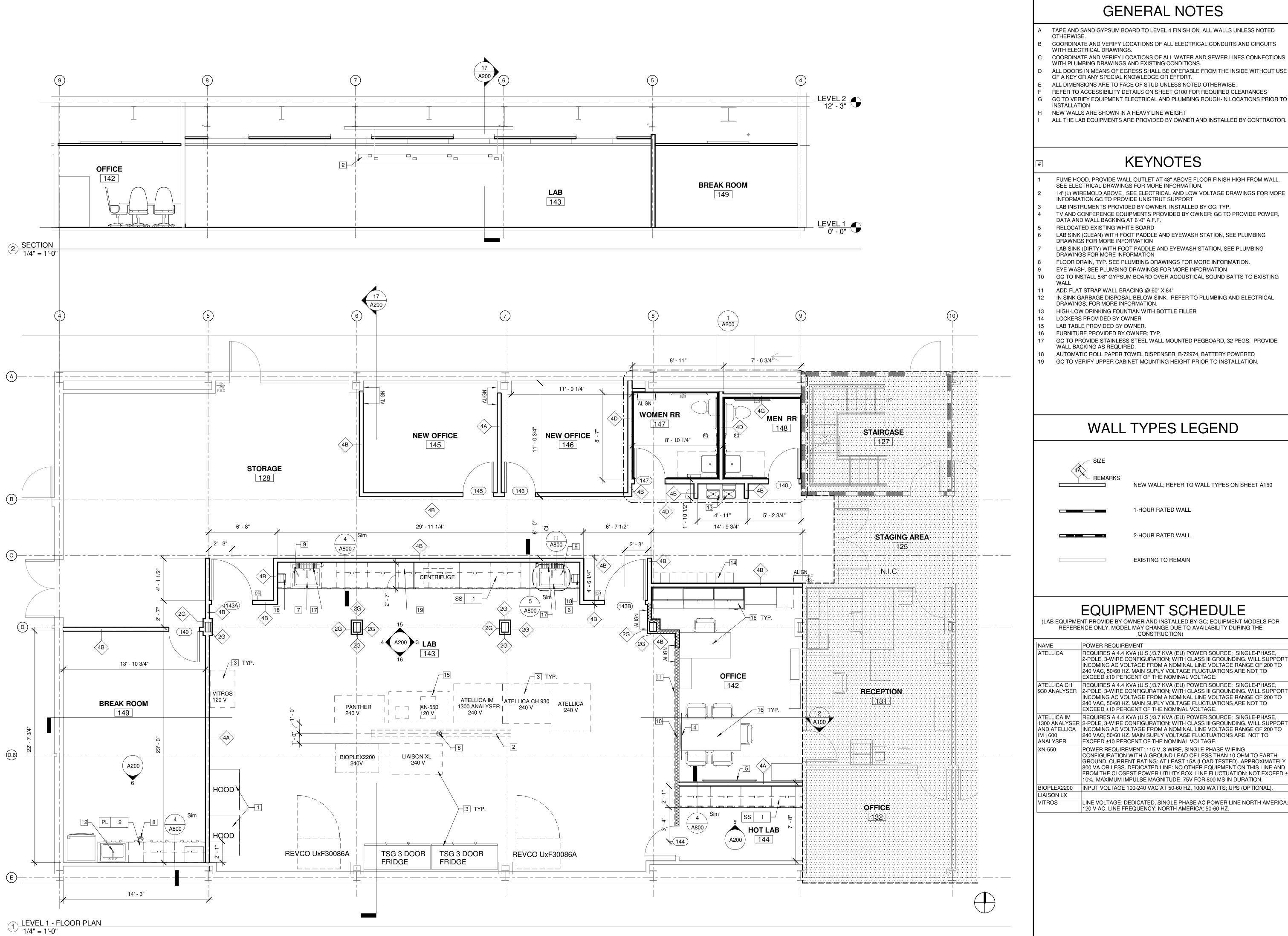
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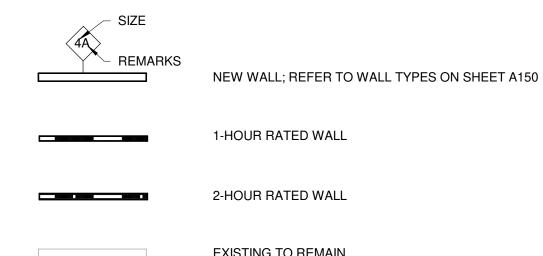






- TAPE AND SAND GYPSUM BOARD TO LEVEL 4 FINISH ON ALL WALLS UNLESS NOTED
- COORDINATE AND VERIFY LOCATIONS OF ALL ELECTRICAL CONDUITS AND CIRCUITS
- COORDINATE AND VERIFY LOCATIONS OF ALL WATER AND SEWER LINES CONNECTIONS
- - ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- GC TO VERIFY EQUIPMENT ELECTRICAL AND PLUMBING ROUGH-IN LOCATIONS PRIOR TO
- ALL THE LAB EQUIPMENTS ARE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
- FUME HOOD, PROVIDE WALL OUTLET AT 48" ABOVE FLOOR FINISH HIGH FROM WALL.
- 14' (L) WIREMOLD ABOVE , SEE ELECTRICAL AND LOW VOLTAGE DRAWINGS FOR MORE
- TV AND CONFERENCE EQUIPMENTS PROVIDED BY OWNER; GC TO PROVIDE POWER,
- LAB SINK (CLEAN) WITH FOOT PADDLE AND EYEWASH STATION, SEE PLUMBING

- 10 GC TO INSTALL 5/8" GYPSUM BOARD OVER ACOUSTICAL SOUND BATTS TO EXISTING
- 12 IN SINK GARBAGE DISPOSAL BELOW SINK. REFER TO PLUMBING AND ELECTRICAL
- 17 GC TO PROVIDE STAINLESS STEEL WALL MOUNTED PEGBOARD, 32 PEGS. PROVIDE
- 18 AUTOMATIC ROLL PAPER TOWEL DISPENSER, B-72974, BATTERY POWERED



	CONSTRUCTION)
AME	POWER REQUIREMENT
TELLICA	REQUIRES A 4.4 KVA (U.S.)/3.7 KVA (EU) POWER SOURCE; SINGLE-PHASE, 2-POLE, 3-WIRE CONFIGURATION; WITH CLASS III GROUNDING. WILL SUPPORT INCOMING AC VOLTAGE FROM A NOMINAL LINE VOLTAGE RANGE OF 200 TO 240 VAC, 50/60 HZ. MAIN SUPLY VOLTAGE FLUCTUATIONS ARE NOT TO EXCEED ±10 PERCENT OF THE NOMINAL VOLTAGE.
TELLICA CH 30 ANALYSER	REQUIRES A 4.4 KVA (U.S.)/3.7 KVA (EU) POWER SOURCE; SINGLE-PHASE, 2-POLE, 3-WIRE CONFIGURATION; WITH CLASS III GROUNDING. WILL SUPPORT INCOMING AC VOLTAGE FROM A NOMINAL LINE VOLTAGE RANGE OF 200 TO 240 VAC, 50/60 HZ. MAIN SUPLY VOLTAGE FLUCTUATIONS ARE NOT TO EXCEED ±10 PERCENT OF THE NOMINAL VOLTAGE.
TELLICA IM 800 ANALYSER ND ATELLICA 1 1600 NALYSER	REQUIRES A 4.4 KVA (U.S.)/3.7 KVA (EU) POWER SOURCE; SINGLE-PHASE, 2-POLE, 3-WIRE CONFIGURATION; WITH CLASS III GROUNDING. WILL SUPPORT INCOMING AC VOLTAGE FROM A NOMINAL LINE VOLTAGE RANGE OF 200 TO 240 VAC, 50/60 HZ. MAIN SUPLY VOLTAGE FLUCTUATIONS ARE NOT TO EXCEED ±10 PERCENT OF THE NOMINAL VOLTAGE.
N-550	POWER REQUIREMENT: 115 V, 3 WIRE, SINGLE PHASE WIRING CONFIGURATION WITH A GROUND LEAD OF LESS THAN 10 OHM TO EARTH GROUND. CURRENT RATING: AT LEAST 15A (LOAD TESTED). APPROXIMATELY 800 VA OR LESS. DEDICATED LINE: NO OTHER EQUIPMENT ON THIS LINE AND FROM THE CLOSEST POWER UTILITY BOX. LINE FLUCTUATION: NOT EXCEED ± 10%. MAXIMUM IMPULSE MAGNITUDE: 75V FOR 800 MS IN DURATION.
OPLEX2200	INPUT VOLTAGE 100-240 VAC AT 50-60 HZ, 1000 WATTS; UPS (OPTIONAL).
AISON LX	
TROS	LINE VOLTAGE: DEDICATED, SINGLE PHASE AC POWER LINE NORTH AMERICA: 120 V AC LINE FREQUENCY: NORTH AMERICA: 50-60 HZ

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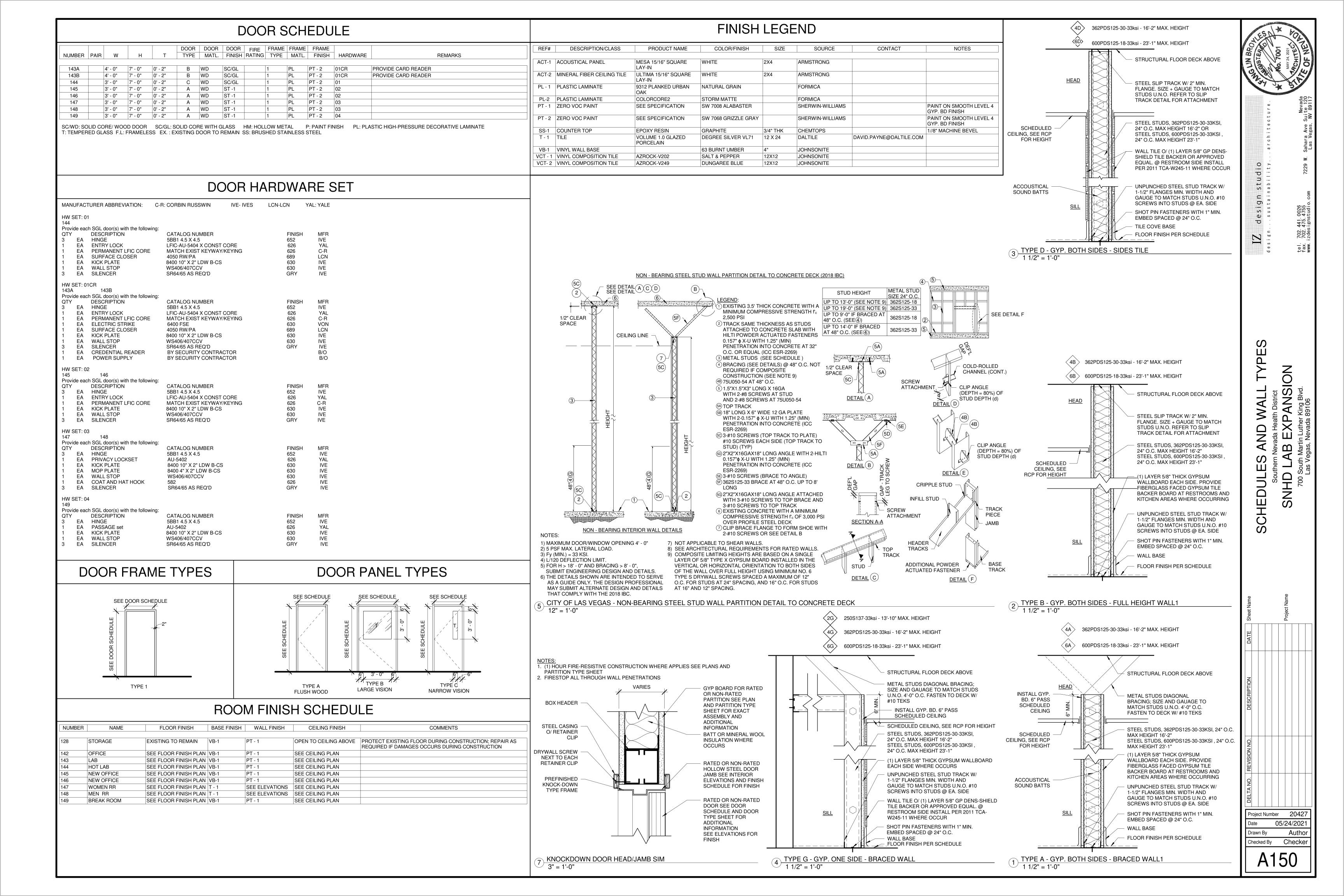
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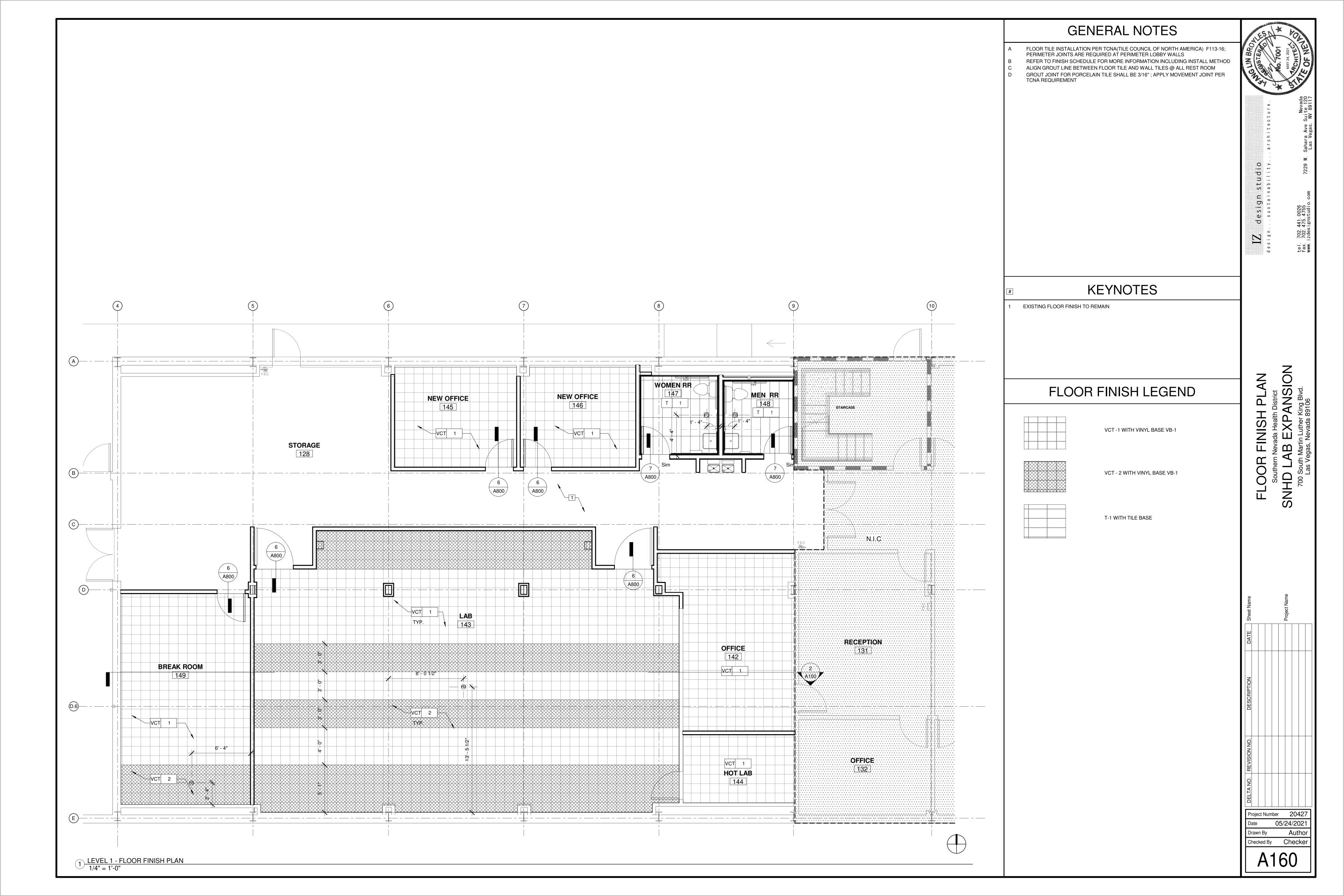
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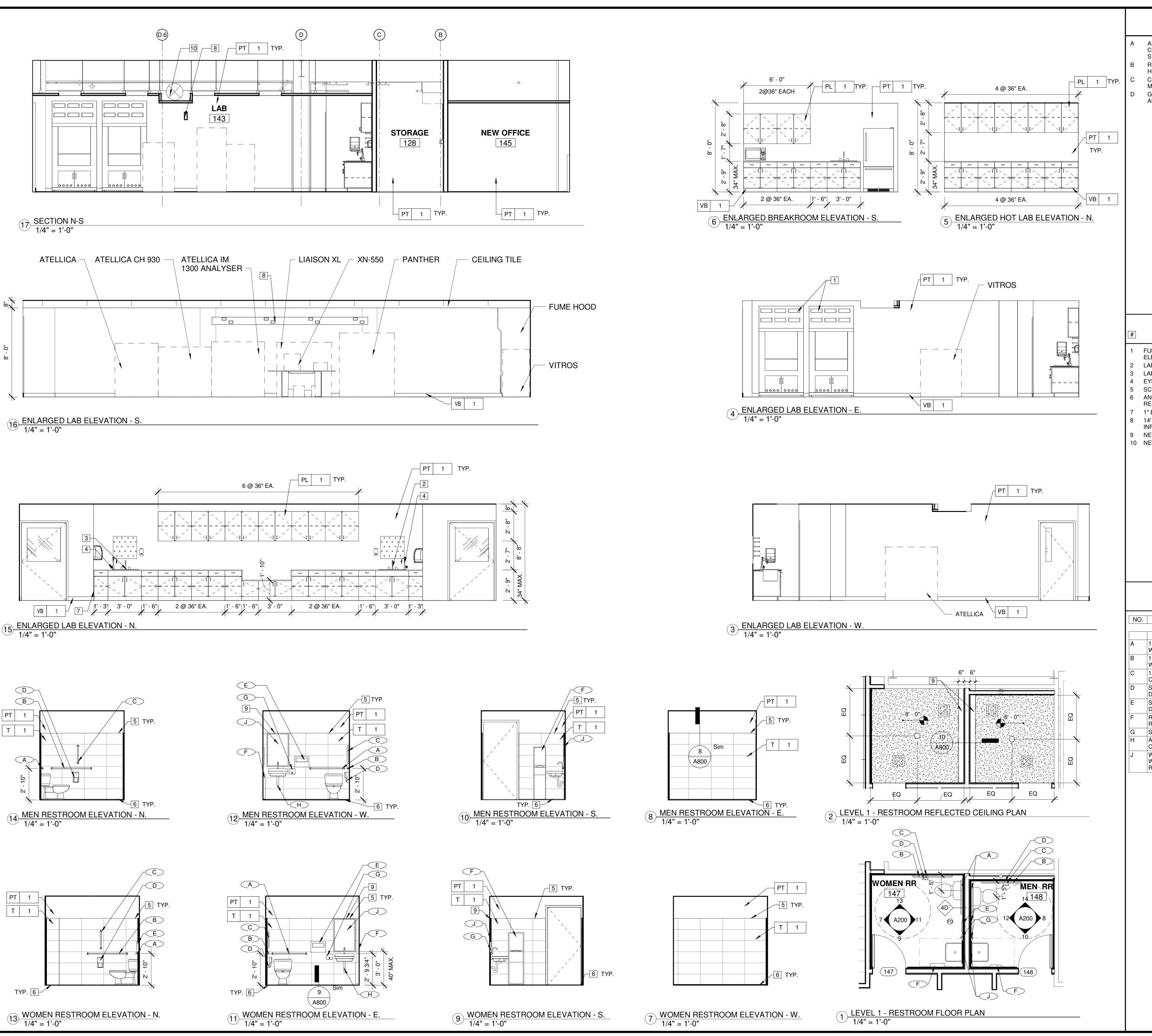
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GENERAL NOTES

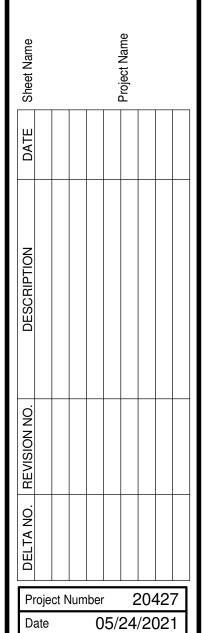
- ALL PLUMBING FIXTURES AND ACCESSORIES SIZE AND MOUNTING HEIGHT SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ada) AND AMERICAN NATIONAL
- STANDARDS INSTITUTE (ANSI) REQUIREMENTS REFER TO ACCESSIBILITIY REQUIREMENTS ON SHEET G100 FOR REQUIRED MOUNTING
- HEIGHTS. COORDINATE WIHT ADA, ANSI, AND ALL APPLICABLE CODE REQUIREMENTS. CONTRACTOR TO PROVIDE IN WALL SUPPORT FOR ACCESSORY AND MILLWORK
- MOUNTING PER MANUFACTURERS SPECIFICATIONS
- GRAB BAR AND SUPPORT SHALL RESIST 250 LB AND SHALL COMPLY WITH ALL ADA, ANSI, AND APPLICABLE CODE REQUIREMENTS

KEY NOTES

- FUME HOOD, PROVIDE WALL OUTLET AT 48" ABOVE FINISH FLOOR HIGH FROM WALL. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- LAB SINK (CLEAN) WITH FOOT PADDLE
- LAB SINK (DIRTY) WITH FOOT PADDEL
- EYE WASH, SEE PLUMBING DRAWINGS FOR MORE INFORMATION
- SCHLUTER-JOLLY EDGE TRIM; TYP. ANODIZED ALUMINUM SANITARY COVE BY SCHLUTER DILEX-AHK80ACGB; TYP. AT ALL RESTROOM WALLS
- 1" BASE CABINET FILLER.
- 14' (L) WIREMOLD ABOVE, SEE ELECTRICAL AND LOW VOLTAGE DRAWINGS FOR MORE
- NEW LED COVE LIGHT REFER TO ELECTRICAL PLAN FOR MORE INFORMATION. 10 NEW DUCT WORK; SEE MECHANICAL DRAWINGS FOR MORE INFORMATION

ACCESSORY SCHEDULE

ASSEMBLY TYPE	MAN.	MODEL
4.4/01.014.45750.074.151.500.07551.004.0.04.0	DODDIOL	D 5000)/00
WITH CONCEALED MOUNTING, 36" LENGTH	BOBRICK	B-5806X36
1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING, 42" LENGTH	KOHLER	B-5806X42
1 1/2" DIAMETER STAINLESS STEEL GRAB BAR WITH CONCEALED MOUNTING, 18" LENGHT	KOHLER	B-5806X18
SURFACE MOUNTED TOILET TISSUE DISPENSER/SANITARY NAPKIN DISPOSAL	BOBRICK	B-3094
SURFACE MOUNTED TOILET SEAT COVER DISPENSER	BOBRICK	B-4221
RECESSED PAPER TOWEL DISPENSER/ WASTE RECEPTACLE	BOBRICK	B-36903
SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-5090
ADA APPROVED PLUMBING FIXTURE INSULATING COVER	TRUEBRO	LAVGUARD 2
WALL MIRROR: 1/8" CLEAR PLATE GLASS MIRROR WITH CHROME FRAME. MOUNT BOTTOM OF REFLECTIVE SURFACE 40" MAX. A.F.F.	BOBRICK	B165-2436
	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING, 36" LENGTH 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING, 42" LENGTH 1 1/2" DIAMETER STAINLESS STEEL GRAB BAR WITH CONCEALED MOUNTING, 18" LENGHT SURFACE MOUNTED TOILET TISSUE DISPENSER/SANITARY NAPKIN DISPOSAL SURFACE MOUNTED TOILET SEAT COVER DISPENSER RECESSED PAPER TOWEL DISPENSER/ WASTE RECEPTACLE SURFACE MOUNTED SOAP DISPENSER ADA APPROVED PLUMBING FIXTURE INSULATING COVER WALL MIRROR: 1/8" CLEAR PLATE GLASS MIRROR WITH CHROME FRAME. MOUNT BOTTOM OF	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING, 36" LENGTH 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING, 42" LENGTH 1 1/2" DIAMETER STAINLESS STEEL GRAB BAR WITH CONCEALED MOUNTING, 18" LENGHT SURFACE MOUNTED TOILET TISSUE DISPENSER/SANITARY NAPKIN DISPOSAL SURFACE MOUNTED TOILET SEAT COVER DISPENSER RECESSED PAPER TOWEL DISPENSER/ WASTE RECEPTACLE SURFACE MOUNTED SOAP DISPENSER BOBRICK BOBRICK BOBRICK TRUEBRO COVER WALL MIRROR: 1/8" CLEAR PLATE GLASS MIRROR WITH CHROME FRAME. MOUNT BOTTOM OF



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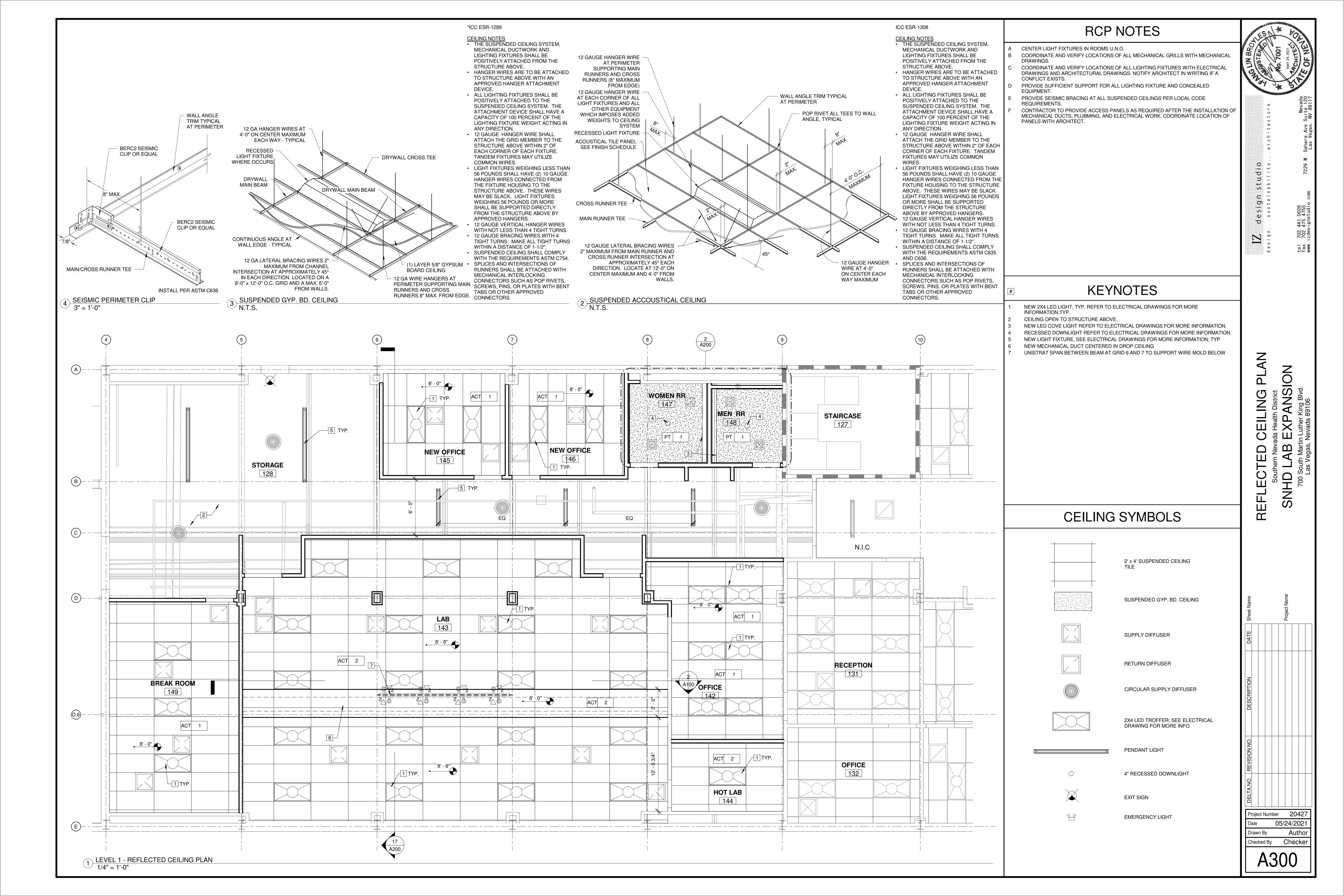
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SECTIONS

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GENERAL NOTES GC TO COORDINATE WITH OWNER ON ROOFING INSTALLATION TIME AND DAY TO PREVENT SNHD STAFF TO BE EFFECTED BY SMELL OF CONSTRUCTION FUME. IZ design studiodesign...sustainability. **KEYNOTES** INFILL ROOF OPENING WITH METAL ROOF DECK, RIGID INSULATION, AND ROOFING SYSTEM TO MATCH EXISTING NEW HEAT RECOVERY OUTDOOR UNIT ON LOW ROOF. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION. INSTALL ROOF TOP UNIT ON MECHANICAL SUPPORT LEG WITH METAL PLATFORM; SEE MECHANICAL DRAWINGS FOR MORE INFORMATION Drawn By Author
Checked By Checker 1 ROOF PLAN 1/4" = 1'-0"

