laughlin ricks architecture

134 3rd Ave E
Twin Falls, ID 83301
208.736.8050

Addendum NO. 1

PROJECT: Phase 1 Part A
Wright Ave Jail
Date: August 8, 2024

To the General Contractor, Subcontractors and Suppliers:

The following items contain additions, deletions, or modifications to the Plans and Specifications. This Addendum forms a part of the Contract Documents and shall be bound inside the cover of the Project Manual.

General Contractor shall be responsible for contacting their sub-contractors as this addendum may affect them.

Bidders shall acknowledge receipt of this Addendum on the Contractor Bid Proposal.

GENERAL NOTES/QUESTIONS:

1. Bid package BP– 01 Site to be bid at a later date.
2. Window Types have been added to A1A-8.0
3. Level 4 finish to be provided on Intumescent Paint on the Hollow Metal Frames
4. Window & Door Security Laminate is a film applied to existing windows and is in Specification 088853- Security Glazing, 2.11 Window & Door Security Glass Laminate
5. Bid Bond is not required for subcontractors

SPECIFICATIONS MANUAL:

REPLACE ENTIRE SECTION:
TABLE OF CONTENTS
083463 DETENTION DOORS AND FRAMES

SECTION 102813 – DETENTION TOILET ACCESSORIES
At SECTION 102813 - DETENTION TOILET ACCESSORIES, DELETE: .63 (102813~~.63)~~

ADD ENTIRE SECTION:
SECTION 033543 POLISHED CONCRETE
SECTION 064100 CASEWORK
SECTION 087100 DOOR HARDWARE

APPROVED SUBSTITUTION REQUESTS

1. 083600 Sectional Overhead Doors:
    a. Approved: Wayne Dalton Thermaspan 200-20
2. Section 22 – 6” Trench Drain w Slotted Ductile Iron Grate – Zurn Z886-HD:
    a. Approved: Klassik with Ductile Slotted Grate K100 & 460D grate
3. 099600 High Performance Coatings:
    a. Approved: Interior Concrete Masonry Units
        i. Primer: B42W00150 – PI HD BLOCK FILLER
        ii. Intermediate Coat: B53W02151 – PROINDUSTRIAL WB ALK URETHANE SG
        iii. Finish: B53W02151– PROINDUSTRIAL WB ALK URETHANE SG
    b. Approved: Exterior Concrete Masonry Units
        i. Primer: B42W00150 – PI HD BLOCK FILLER
        ii. Intermediate Coat: A82W00151 – A-100 EXTERIOR LATEX SATIN
        iii. Finish: A82W00151 – A-100 EXTERIOR LATEX SATIN

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ARCHITECTURAL DRAWINGS

REVISE Sheet A1A-0.0 per Attached.
REVISE Sheet A1A-0.6 per Attached.
REVISE Sheet A1A-1.0 per Attached.
REVISE Sheet A1A-1.1 per Attached.
REVISE Sheet A1A-1.2 per Attached.
REVISE Sheet A1A-1.3 per Attached.
REVISE Sheet A1A-1.5 per Attached.
REVISE Sheet A1A-2.0 per Attached.
REVISE Sheet A1A-2.1 per Attached.
REVISE Sheet A1A-4.0 per Attached.
REVISE Sheet A1A-5.0 per Attached.
REVISE Sheet A1A-7.0 per Attached.
REVISE Sheet A1A-8.0 per Attached.
REVISE Sheet A1A-9.0 per Attached.
REVISE Sheet A1A-9.1 per Attached.
REVISE Sheet A1A-10.1 per Attached.
REVISE Sheet A1A-10.9 per Attached.

STRUCTURAL DRAWINGS

REVISE Sheet S1.0 per Attached.
REVISE Sheet S1.1 per Attached.
REVISE Sheet S1.3 per Attached.
REVISE Sheet S1.4 per Attached.
REVISE Sheet S2.0 per Attached.
REVISE Sheet S2.1 per Attached.
REVISE Sheet S4.0 per Attached.
REVISE Sheet S4.1 per Attached.

MECHANICAL DRAWINGS

REVISE Sheet M1A-1.0 per Attached.
REVISE Sheet M1A-1.1 per Attached.
REVISE Sheet M1A-1.2 per Attached.
REVISE Sheet M1A-2.1 per Attached.
REVISE Sheet M1A-2.2 per Attached.

PLUMBING DRAWINGS

REVISE Sheet P1A-1.0 per Attached.
REVISE Sheet P1A-1.1 per Attached.
REVISE Sheet P1A-1.2 per Attached.
REVISE Sheet P1A-2.1 per Attached.

ELECTRICAL DRAWINGS

REVISE Sheet E1A-0.1 per Attached.
REVISE Sheet E1A-1.0 per Attached.
REVISE Sheet E1A-2.0 per Attached.
REVISE Sheet E1A-2.1 per Attached.
REVISE Sheet E1A-3.0 per Attached.
REVISE Sheet E1A-5.0 per Attached.
REVISE Sheet E1A-5.1 per Attached.

DENTAL DRAWINGS

ADD Sheet SCV per Attached.
ADD Sheet SA.0 per Attached.
ADD Sheet SED.1 per Attached.

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Summary of Attachments to Addendum No. 1
(Bidders check to verify receipt of all attachments.)

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END OF ADDENDUM No. 1

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SECTION 033543 – POLISHED CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Concrete floor slab profiling including [**honing**] [**polishing**] [**dyeing**] and sealing.

2. Protecting finished concrete floor slab until Substantial Completion.

1.2 RELATED REQUIREMENTS

A. Concrete for polished concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, initial finishing and curing. Additional requirements are specified in Section 033000 "Concrete."

1. Coordinate with sections:

   a. Section 033000 - Concrete.
   b. Section 033509 - Concrete Finishing & Curing.
   c. Section 079000 - Joint Sealants.

2. Coordinate with finishing manufacturer for system "products" for sections above.

1.3 REFERENCES

A. ASTM International (ASTM):

1. ASTM C94/C94M: Standard Specification for Ready-Mixed Concrete
2. ASTM C156: Standard Test Method for Water Loss (from a Mortar Specimen) Through Liquid Membrane–Forming Curing Compounds for Concrete.
3. ASTM C779/C779M: Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
4. ASTM C805/C805M: Standard Test Method for Rebound Number of Hardened Concrete.
5. ASTM C878/C878M: Standard Test Method for Restrained Expansion of Shrinkage-Compensating Concrete.
6. ASTM C944/C944M: Standard Test Method for Abrasion Resistance of Concrete or Mortar Surfaces by the Rotating–Cutter Method.
7. ASTM C979/C979M: Standard Specification for Pigments for Integrally Colored Concrete.
8. ASTM C1077: Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation.
9. ASTM C1116/C1116M: Standard Specification for Fiber-Reinforced Concrete.

10. ASTM C1583/C1583M: Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method).
11. ASTM C1895 - Standard Test Method for Determination of Mohs Scratch Hardness.
12. ASTM D4039: Standard Test Method for Reflection Haze of High-Gloss Surfaces.
13. ASTM D5767: Standard Test Method for Instrumental Measurement of Distinctness-of-Image (DOI) Gloss of Coated Surfaces.
14. ASTM E96/E96M–10: Standard Test Method for Water Vapor Transmission of Materials.
15. ASTM E329: Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection.
16. ASTM E1155: Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers.
17. ASTM G152: Standard Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials.

B. American National Standards Institute (ANSI):

1. ANSI/NFSI B101.1-2009: Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials.
2. ANSI/NFSI B101.3-2012: Test Method for Measuring Wet DCOF of Common Hard-Surface Floor Materials

C. American Concrete Institute (ACI):

1. ACl 302.1R-89-15: Guide to Concrete Floor and Slab Construction.
2. ACI 305.1-14(20) Specification for Hot Weather Concreting (Reapproved 2020).
3. ACI 306.1-90: Standard Specification for Cold Weather Concreting (Reapproved 2002).
4. ACI 310R-19: Guide to Decorative Concrete.

D. Concrete Sawing and Drilling Association, Inc. (CSDA):

1. CSDA ST-115: Measuring Concrete Micro Surface Texture.

E. International Code Council Evaluation Service (ICC ES):

1. ICC ES AC 32: Concrete with Synthetic Fibers.

1.4 PREINSTALLATION MEETING

A. Preinstallation Conference: Conduct conference at project site or video conference.

1. Schedule meeting between 7 and 14 days prior to first concrete slab placement of 10,000 SF or greater and after placement of test slab and after concrete submittals have been approved.
2. Obtain Pre-slab Installation Meeting Agenda from Green Umbrella, (844) 200-7336.
3. Require responsible representatives of each party involved with the interior concrete slab work to attend the meeting. Representatives to be present shall include personnel who are directly involved in overseeing the work for each placement and who have authority to control the concreting work.

4. Require representatives of each entity directly concerned with concrete. Attendees shall include, but not be limited to the following:

    a. Owner's Construction Manager.
    b. Owner's Concrete Consultant.
    c. Contractor:

        1) Project Manager.
        2) Superintendent.

    d. Green Umbrella Certified Place/Finish Concrete Subcontractor:

        1) Green Umbrella Master Craftsman/Project Manager.
        2) Green Umbrella Craftsman/Finish Foreman.

    e. Review sequencing. Review concrete profiling and protection of finished concrete.
    f. Meeting Minutes: Record on the agenda document, discussions of meeting and decisions and agreements reached. Submit in accordance with the requirements of Submittals paragraph.
    g. Changes to Contract Documents from recommendations or discussions at the Pre-slab Installation Meeting shall be approved in writing by Owner's Construction Manager prior to implementation.

1.5 SCHEDULING

A. Give preference to Thursday or Friday placement and finishing to reduce interference and expedite project release to other trades.

B. Profile, Hone and Polish Schedule: Submit plan showing polished concrete surfaces and schedule of abrasive polishing operations for each area of polished concrete. Review and approve before the start of concrete placement operations. Include locations of all joints, including construction joints. Indicate joint filler.

1.6 ACTION SUBMITTALS

A. General: Provide submittals as required by this Specification in accordance with Contract Documents. No work shall be performed relating to a submittal until the submittal is approved by the Architect/Engineer in writing.

B. Submit submittal items concurrently for submittals shown with the same submittal date specified in the Concrete Submittal Register included at the end of this Section. Do not submit submittals of this section together with submittals in any other Section. Identify submittals explicitly in accordance with the requirements of Section 013300.

C. Green Umbrella Certified Place/Finish Concrete Subcontractor Qualification Statement: Submit Green Umbrella Certification Form including Floor Finisher Qualifications as required in Quality Assurance paragraph.
    1. Provide ACI certification documents for at least three finishers who will install all interior slab placements.

D. Product Data: Material and Technical Data for all materials including, but not limited to:

1. Concrete post-placement and abrasive finish, densifier, impregnating stain treatment.

2. Process cutting agent and abrasive materials(s).

3. Repair materials.

a. Surface Defect Repairs: The Owner's Representative shall submit map of locations where surface defects are to be repaired. Map shall be referenced to the building column line locations.
b. Crack Repair: The Owner's Representative shall submit a map of locations where cracking is to be repaired. Map shall be referenced to the building column line locations.

4. Interior slab protection materials.

E. System Data: Technical data, testing and surface profile requirements for completed concrete finish system.

F. Concrete Floor Protection Plan: Submit concrete floor protection plan addressing procedures specified in Part 3 of this Section.

G. Equipment Data: Technical and performance data on all types of equipment to be used in the processing of concrete and application of finish systems. Mandatory documentation that indicates the number of and compliance of propane equipment with finishing and treatment manufacturer's written requirements and recommendations.

1. Concrete Weighted Ultra High Speed Burnisher:

a. Manufactured by Green Umbrella.
b. Weighted pad driver.
c. CARB/EPA certified.
d. Width: 27 inch.
e. Maximum 90 dBA measured 3 feet from sound source per ISO 11201.
f. No substitute accepted.
g. Ergonomically designed to minimize vibration, noise, and user fatigue.

2. Architectural Concrete Profile Equipment: Propane powered.

a. Rider Trowel & Profiler:

1) Manufactured by Green Umbrella.
2) Provide minimum of one unit per 10,000 sq. ft.
3) Wet abrasive compatible.
4) Rider may be limited in aggregate exposure due to gearbox design.
5) Or Equal to.

b. Walk-Behind Profiler:

1) Manufactured by Green Umbrella.

2) Provide minimum of two units per 10,000 sq. ft.
3) Wet abrasive compatible.
4) Pre-approved Equal.

c. Variable Abrasive Concrete Grinder:

1) Manufactured by Green Umbrella.
2) 800 lbs. or 580 head pressure model.
3) Designed for wet abrasives.
4) 30 inch grinding path.
5) Emission shut down system (ESDS)
6) 1400 square feet per hour production rate.
7) Provide minimum of two units per 10,000 sq. ft.

d. Variable Abrasive Concrete Edge Grinder:

1) Manufactured by Green Umbrella.
2) Designed for wet abrasives.
3) To assure edge/field profile same manufacture as Field Grinder.
4) 1/4 inch cut to wall.
5) Emission shut down system (ESDS).
6) Provide minimum of 1 units per 10,000 sq. ft.

H. Shop Drawings: Application area plans to show layout of colorant(s). Indicate locations and schedule of abrasive profile.

I. Sustainable Design Submittals:

1. Laboratory Test Reports: For [**colorants**] [**and**] [**liquid concrete treatments**], indicating compliance with requirements for low-emitting materials.
2. Products shall comply with the requirements of the California Department of Public Health's (CDPH) "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

J. Samples for Initial Selection: Available colors prepared on manufacturer’s standard samples, subject to Architect approval in mockups.

K. Samples for Verification: Manufacturer’s standard samples of each color and finish. Recreate approved samples in mockups as design reference samples for comparing Work in place, subject to Architect approval in mockups.

L. Pre-Slab Installation Meeting Documents:

1. Record of notification of pre-slab meeting including company name, persons contacted, date, and method of contact.
2. Meeting Agenda
3. Meeting Minutes. Submit meeting minutes including attendance record to participants and Owner’s Construction Manager. Minutes of the meeting shall be distributed to partied in attendance by the Contractor within 5 days of the meeting. One copy of the minutes shall also be transmitted to Green Umbrella for informational purposes.

1.7 INFORMATIONAL SUBMITTALS

A. Product Test Reports: Provide testing reports for each product. Indicate entity performing the testing, testing standards and results and the qualified testing agency that approves or certifies the testing and results.

B. Provide manufacturer's written installation instructions and recommendations.

C. Field quality control reports.

D. Testing agency qualifications.

E. Installer qualifications.

1.8 CLOSEOUT SUBMITTALS

A. Maintenance Data: Manufacturer's written recommendations for protecting, cleaning, and maintaining concrete finishes.

1.9 QUALITY ASSURANCE

A. Testing Agency Qualifications: An independent testing agency qualified to perform specified or required testing in accordance with ASTM C1077 and ASTM E329.

B. Green Umbrella Certified Qualifications: A firm currently certified as a Green Umbrella Craftsman or Master Craftsman approved by polished concrete finish manufacturer prior to project award.

1. Acceptable Green Umbrella Craftsman: (www.greenumbrellasystems.com)

a. Contact Info.

C. Manufacturer's Representative: Provide oversight and inspection by concrete finish manufacturer in accordance with manufacturer's requirements.

1. Green Umbrella Representative: (www.greenumbrellasystems.com)

a. Contact Info. tom@greenumbrellasystems.com , 716-771-6352

D. Mockups: Construct mockups **as directed by Architect**, [**minimum 20x20 feet**] for each finish to verify selections made and to demonstrate typical joints, surface profile and gloss, tolerances, and standard of workmanship. Build mockups using materials specified for the completed Work, and in compliance with recommendations of manufacturer.

1. Obtain **Architect's** approval of mockups prior to starting construction.
2. Viewed in light similar to project completion.
3. Mock-up construction performance should demonstrate actual construction methodology to the extent possible. Differences in equipment and actual methodology will cause variations and differences between mock-up and finished floor.
4. Demonstrate profiling, finishing, and choice of protection of architectural concrete.

5. Maintain mockups, marked and undisturbed during construction to provide a baseline standard for assessing completed Work.
6. Remove mockup when directed.

7. Approved, undisturbed, and undamaged mockups may remain as a part of the Work.

E. Protection of Concrete Finishes: Provide protection for concrete slab finishes as indicated in manufacturer's written instructions, 310R-19, and as follows:

1. Provide protection of concrete finishes from any contact with any substance that contains petroleum, acids or detergents.

a. Prohibit vehicle transit and parking on concrete surfaces without providing protection.
b. Prohibit storage, transit or use of hydraulic equipment on concrete surfaces without providing protection.
c. Prohibit construction operations that include the use of substances listed above without providing approved protection.

2. Provide protection to finished concrete surface from any materials placed and/or stored on the surface, including but not limited to:

a. Steel and iron.
b. Petroleum based products.
c. Vehicles and machinery.
d. Hydraulic fluid.
e. Paints and coatings.
f. Paper and plastic packaging.
g. Aggregates.
h. Food and beverages.

3. Surface Contaminant Cleaning Procedure:

a. Provided by system manufacturer.
b. On-site spill kits:

1) Solid removal.
2) Liquid removal.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver material in original containers with unbroken seals, bearing manufacturer labels indicating brand name and directions for storage.

B. Protect materials from weather and elements. Do not allow liquid products to freeze.

1.11 PROJECT CONDITIONS

A. Maintain environmental conditions on day of placement as recommended by treatment manufacturer and certified installer.

B. Placing Environment:

1. Architectural exposed concrete that will be profiled (PHP), shall be protected by enclosed structure after the roof membrane is completely installed and watertight

a. Roof construction, skylight installation, overhead painting, and roof drainage system shall be complete and weather tight prior to placement of sales floor slabs.
b. Lighting: Permanent lighting or equivalent temporary lighting shall be operational during all slab placements.

1.12 MANUFACTURER SPECIAL WARRANTY

A. Provide manufacturer's 10-year warranty providing coverage that architectural concrete will remain water resistant, non-off-dusting, hardened and abrasion resistant throughout warranty period. Must accompany a time of installation report by certified installer, verified by manufacturer's consultant and/or Corporate Office.

B. Must be installed by manufacturer's certified installer. Certified Craftsman Warranty: 1 year for installation defect.

PART 2 - PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

A. Subject to compliance with requirements, provide products by the following:

1. Green Umbrella Architectural Concrete Systems, Inc. 20 Jetview Dr. Rochester, NY 14624, basis of design manufacturer. Technical and Architectural Support:(844) 200-7336, info@greenumbrellasystems.com
2. No substitutions.

2.2 PERFORMANCE REQUIREMENTS

A. Burnished Concrete: per ACI 310R-19, 7.2.7.

B. Slip Resistance: Minimum Dynamic Coefficient of Friction of 0.42, per ANSI/NFSI B101.3.

C. Abrasion Resistance: Abrasion resistance of 0.25 mm at 30 minutes and 0.5 mm at 60 minutes, per ASTM C779/C779M.

D. Abrasion Resistance: Special/DF, per BS EN 13892-4.

E. Water Vapor Transmission of Materials: ASTM E96/E96M of 0.34 g/h/m2.

F. Ultra-Violet Light and Water Spray: No adverse effects to ultra-violet and water spray, per ASTM G152.

G. Surface Profile:

1. Class of Grind: per 310R-19, 7.2.5.
2. Level of Gloss: per ACI 310R-19, 7.2.6.
3. Level of Roughness Average: per CSDA ST-115.

2.3 MATERIALS

A. Finish Surface Profile System:

1. Green Umbrella, "Max Defense & Profile System"

a. Joint Sealer:

1) Product: Green Umbrella Polylock

a) Pre-approved Equal: PE85 by Hi Tech

b. Profiling, Honing, and Polishing Abrasive:

1) Product: Green Umbrella, GreenCut Abrasives.

a) Stock removal, profile, hone and polish.
b) Early age wet cutting abrasive.
c) Compatible with liquid cutting agent.
d) Compatible with propane variable abrasive grinders and trowel profilers.

c. Wet Cutting Agent:

1) Product: Green Umbrella, GreenCut Cutting Agent:

a) pH neutral.
b) Free from sodium, potassium butyl, and polymers.
c) Bearing manufacturer label.

d. Penetrating Protective Treatment & Surface Colorant:

1) Product: Green Umbrella, Dry Shield & Nano Color.

a) Penetrating.
b) Non-film forming.

e. Penetrating Protective Treatment:

1) Product: Green Umbrella, Shield and Enhance.

a) Liquid hardener and densifier

2) Product: Green Umbrella, RTU Microfilm.

a) Improved stain resistance.
b) Non-film forming.

3) Mechanical:

a) Integral mechanical densification finishing trowel.
b) Rider trowel and walk-behind abrasive profiler.
c) Variable abrasive concrete grinder.
d) Black pad high-speed concrete weighted propane burnished.

B. Interior Slab In Dry Protection Materials:

1. Product: Green Umbrella Ramboard:

a. Forest Stewardship Council (FSC) certified. Recycled and recyclable materials.
b. Roll Dimensions (W x L): 38 inches x 100 feet (965 mm x 30.5 m). 317 sq ft. Rolls per Pallet: 16.
c. Green Umbrella Ramboard Vapor-Cure Tape: Vapor-Cure used to cover seams which prevents tape lines. Allows vapors and moisture to escape from concrete.
d. Roll Dimensions (WxL): 3 inches x108 feet (76 mm x 32.9 m) Rolls per Box: 16.
e. Or Pre-Approved Equal.

2. Product: Green Umbrella GreenGuard:

a. Roll Dimensions (W x L): 38 inches x 180 feet 10 mil.
b. Or Equal To.

c. Interior, dry conditions only.

C. Exterior Slab Protection Materials:

1. Product: Green Umbrella GreenGuard.

a. Exterior, wet conditions expected.
b. Pre-approved Equal.

D. Cleaning Agent:

1. Product: GreenClean with Slip Resist:

a. Slip resistance enhancing.
b. pH neutral.

2. Product: GreenClean and Degreaser:

a. Enzyme degreaser.
b. pH neutral.
c. Water treatment friendly.

3. Product: GreenClean Spill Kit:

    a. Solid spill kit.
    b. Liquid spill kit.
    c. 72-hour recovery.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine architectural concrete substrates with polisher, for conditions that may affect the Work.

B. Verify preparations and placement of concrete is in accordance with ACI standards and manufacturer's written instructions.

C. Verify ambient and surface temperatures to be in accordance with manufacturer's requirements for all products for the work.

D. Verify that the owner's testing agency results for Mohs Hardness test per ASTM C1895 are in accordance with this specification.

3.2 PREPARATION

A. Site Conditions

1. The building shell shall be completed sufficiently to keep out wind, rain, snow or other adverse weather affects that could damage the polishing work.
2. Provide suitable water, power, lighting and ventilation.

    a. Provide minimum lighting of 40-foot candles (440 lux) measured at floor surface.

3. Provide and maintain minimum floor slab temperature of 50 degrees F.

B. All penetrations, drains, floor embeds, or conduit shall be cut, capped, clearly identified and made safe prior to any polishing work.

C. Prepare equipment to be used in profiling and application of finish system materials according to finish system manufacturer's written instructions.

D. Completely clean liquid treatment application sprayers free of any potential contaminating material and make ready for application.

3.3 "Max Defense & Profile System".ABRASIVE PROFILE-HONE-POLISH

A. Profile and Hone designated concrete substrates using a wet polishing process per manufacturer's written instructions.

1. Profile Cut: **Class C Medium Aggregate**.

2. Prepared to apply setting/curing catalyst immediately upon completion of finishing operations.

B. Final polishing abrasive as recommended by treatment system manufacturer to achieve required finish.

1. Level of Gloss : Distinctness-of-Image (DOI) Gloss: Image Clarity as measured by Image Clarity Meter, per ASTM D5767.

a. **Level 3: High Gloss Polished; Image clarity 50-60 percent.**

2. Haze Index: Haze Index value of less than 10, as measured by Gloss meter per ASTM D4039.
3. Surface Finish: Average Roughness (Ra) in micro-meters or micro-inches measured by Surface Profilometer, per CSDA ST-115: Measuring Concrete Micro Surface Texture

a. Green Umbrella MaxDefense; Ra 32 µinch ±2 µinch

C. Thoroughly sweep floor. Auto scrub with manufacturer's cleaning agent, neutral pH Green Clean and Degreaser.

D. Burnish with a non-resinous black pad in accordance with manufacture recommendation.

3.4 SURFACE COLORANT

A. Apply Green Umbrella NanoDye following manufacturer's instructions using a pump-up sprayer with conical tip. Use overlapping circular motion holding tip approximately 12 inches from the surface; ensure consistent coverage. Before proceeding, remove excess dye using an auto scrubber.

B. Reduced Downtime Application:

1. Densifier and Colorant Application Method: Combine Green Umbrella NanoDye and Green Umbrella DryShield as dye carrying agent, with appropriate sprayer and in accordance with manufacturer's instruction.
2. Wait until dry, then clean with auto-scrubber and wipe small area with dry cloth; ensure color acceptability.

3.5 PROTECTIVE TREATMENTS

A. Installation of Cure Protective Finish Treatment (Green Umbrella, Shield and Enhance):

B. Installation of Cure Protective Finish Treatment (Green Umbrella, Microfilm):

C. Installation of Abrasive Protective Finish Stain Treatment (Green Umbrella, RTU Microfilm):

1. Remove all dirt, dust, and debris from concrete surface. Clean the surface with manufacturer's recommended cleaning agent.
2. Spray-apply the protective treatment using high volume, low pressure (pump or battery powered) sprayers at a rate specified by manufacturer.

3. Spread the protective treatment using an applicator as recommended by manufacturer. Provide uniform treatment coverage and allow to dry for a minimum of 1 hour.
4. After the protective treatment has dried completely another application may be applied as recommended by manufacturer. Avoid over application, which may cause poor results.
5. Once dry, High Speed Burnish the protective treatment using a thick, black, non-resinous transfer concrete pad (Green Umbrella Black Pads). Use only equipment as recommended by concrete treatment manufacturer in writing.

3.6 EQUIPMENT

A. Refer to manufacturer's written instructions for requirements of installation equipment, including but not limited to: sprayers, burnishers, auto scrubbers, profiling, honing and polishing abrasives and dust collection system.

3.7 FIELD QUALITY CONTROL

A. Measure Gloss Rating, DOI and Haze Index as specified herein, re-polish if required to achieve specified requirements.

B. Measure concrete micro surface RA texture as specified herein, re-polish if required to achieve specified requirements.

C. Measure slip resistance using certified slip-test method; verify compliance with specified slip resistance rating. NFSI approved tribometer. Prior to turnover, floor must be cleaned with Green Clean and maintain with slip resist. Then measured for SCOF.

3.8 PROTECTION AND CLEANING

A. Prohibit wheeled traffic on finished surfaces for a minimum of 8 hours following application or with approval of Green Umbrella Craftsman.

B. Protect finished floor as specified above and as indicated in manufacturer's written instructions and 310R-19.

C. Provide daily scrubbing of the entire exposed concrete slab surface with riding equipment that utilizes only pads and water, Daily scrubbing shall continue from time of dried initial application of surface densifier until time of store turnover. Use white or red pads, cleaned or replaced daily, and avoid using excessive downward head pressure that may damage the slab surface

END OF SECTION

SECTION 064100 - CASEWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Specially fabricated cabinet units.

B. Countertops.

C. Cabinet hardware.

D. Preparation for installing utilities.

1.2 SUBMITTALS

A. Shop Drawings: Indicate materials, component profiles, fastening methods, joining details, and accessories. Provide the information required by AWI/AWMAC/WI Architectural Woodwork Standards.

B. Product Data: Provide data for hardware accessories.

1.3 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of experience.

PART 2 PRODUCTS

2.1 CABINETS

A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI/AWMAC/WI Architectural Woodwork Standards for Custom Grade.

B. Plastic Laminate Faced Cabinets: Premium grade.

C. Cabinets:

1. Finish – Exposed Exterior Surfaces: Decorative laminate.

2. Door and Drawer Front Edge Profiles: Self-Edge banding with material of same finish and pattern.

3. Casework Construction Type: Type A – Frameless.

4. Interface Style for Cabinet and Door: Style 1 – Overlay; Flush overlay.

5. Adjustable Shelf Loading: 50 lbs. per sq. ft.

2.2 LAMINATE MATERIALS

A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

B. Provide specific types as indicated.

1. Horizontal Surfaces: HGL, 0.050 inch nominal thickness, colors as scheduled, finish as scheduled.

2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, colors as scheduled, finish as scheduled.

3. Cabinet Liner: CLS 0.020 inch nominal thickness, colors as scheduled, finish as scheduled.

4. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

C. Low Pressure Thermofused Polyester and Melamine Laminates: ALA (American Laminators Association).

D. PVC edgebanding (polyvinyl chloride) on seamless rolls to be applied with automatic edge banding machines using hot-melt adhesives. Product to be chip proof, flame and moisture resistant.

D. Colors of laminates shall be as follows:
1. Cabinets door and drawer faces: As selected from full line of colors
2. Countertops: As selected from full line of colors

E. Colors of semi-exposed and concealed melamine shall be as selected from Almond, Folkstone Grey, Black and White. Color as selected by Architect.

2.3 COUNTERTOPS

A. Plastic Laminate Countertops; Medium density fiberboard substrate covered with HPDL, 3-mm PVC edgebanding and other specified requirements.

B. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings, finished to match.

C. Solid Surface Counters: Provide solid surface shelves as manufactured by the following:
1. Corian by Dupont:
2. Samsung Chemical USA:
3. Wilsonart Contract:
4. Solid Surface Material:

a. Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment: not coated, laminated or of composite construction; meeting following criteria:

b. flammability: Class 1 and A when tested to UL 723.

c. Finish: Matte, with a 60 gloss rating of 5-20

d. ¾" thick.

D. Stainless Steel Countertop:
1. Stainless Steel: Except as otherwise indicated, provide AISI 18-8, Type 304, hardest workable temper, with No. 4 directional polish applied either prior to or after forming.
2. Counter Tops: 14 Gauge.
3. Where joints in stainless steel work are necessary due to limitations of sheet sizes or installation requirements, make tight without open seams by welding.
4. Close ends of all fixtures, splash aprons, shelves, and bases by sealing or welding end plates.
5. Indicate exact sizes and locations of blocking required on shop drawings.
6. Provide inserts, and anchors built into other work for support of this work. Ensure these items are installed in their proper location. Include fastening devices required to attach the work. Use proper anchoring devices for the materials encountered and the usage expected.
7. Install items in accordance with the manufacturers' instructions using workers skilled and familiar with items and installation requirements.

2.4 ACCESSORIES

A. Adhesive: Type recommended by AWI/AWMAC to suit application to meet requirements of ASTM-D3110.

B. Solvent Based Contact Cement: MMM-A-J130B.

C. Fasteners: Size and type to suit application.

D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel chrome-plated finish in exposed locations.

E. Concealed Joint Fasteners: Threaded steel.

F. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface. Provide a wiring grommet at each electrical or data outlet and additional grommets as indicated in the contract documents.

G. Provide National Lock No. C8173-26D for cabinets as indicated in the contract documents.

H. Workmanship Complies with Industry Standards: AWI (Architectural Woodwork Institute).

2.5 HARDWARE

A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.

B. Drawer and Door Pulls: If not specified in drawings then provide 5/16" "U" shaped wire pull, aluminum with satin finish, 4 inch centers.

C. Drawer Slides:

1. Box Drawer: Single extension, almond epoxy finish with 75 lb. load rating and positive in and out stops, stay close detent, one side captive and four nylon rollers. Hettich #FR602L, Accuride No. 3832, or Blum No. 230M.
2. File Drawers: Full extension, zinc finish with 150 lb. load rating and positive in and out stops, stay close detent and steel ball bearing. Accuride #4034.

D. Adjustable Shelf Support System:

1. Standard adjustable shelf support system shall be provided by inserting nickel plated steel "L" shaped clips into predrilled 5-mm diameter holes 32-mm (1-1/4") on centers. Liberty #A1131 HNP. Shelves shall be fixed using a retaining screw.

E. Clothes Rod and Hangers: (not used)

1. 1" diameter extruded rigid PVC tube, internally reinforced with steel tube when over 18" long. Supported by injection molded ABS plastic brackets at each end. All parts shall be selected from Almond, Folkstone Grey, and White.

F. Mirrors: (not used)

1. 1/4" thick polished plate glass mirror, 10" x 18" with retainer clips, clear plastic screw mount. K & V #6092.

G. Wall Standards and Brackets: (not used)

1. All adjustable shelves indicated on the Interior Elevations to have heavy duty metal standards and brackets, to be provided with zinc plated steel, adjustable 2” center. Knape & vogt No. 85 and 185 double-slot standards and brackets.

H. Countertop Support Brackets:

1. Countertop support brackets shall be constructed of 16 gauge 1-1/2" tube steel, with welded construction, designed to support countertops off finished wall at desired heights. Brackets are powered coated. Color as selected by Architect.

2. 18" x 21" legs for up to 26" deep countertop.

3. 21" x 27" legs for up to 32" deep countertop.

I. Hinges: European style concealed self-closing type, steel with satin finish. Maximum door size of 24" x 36" and 24" x 48" shall be provided with 2 knuckles. Maximum door size of 24" x 84" shall be provided with 3 knuckles. Maximum door size of 24" x 90" shall be provided with 4 knuckles.

2.6 FABRICATION

A. Assembly: Shop assemble cabinets for delivery to sit in units easily handled and to permit passage through building openings.

B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.

1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.

E. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Seal cut edges.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Verify location and sizes of utility rough-in associated with work of this section.

3.2 INSTALLATION

A. Set and secure custom cabinets I place, assuring that they are rigid, plumb, and level.

B. Use fixture attachments in concealed locations for wall mounted components.

C. Use concealed joint fasteners to align and secure adjoining cabinet units.

D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.

E. Secure cabinets to floor using appropriate angles and anchorages.

F. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

G. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.

H. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.

I. Seal joint between back/end splashes and vertical surfaces. Back and end splashes with plastic laminate self edge at tops and exposed ends; construction similar to counter tops.

J. Framed Walls: Wall sheathing, weather barrier, cementitious backer board, and direct application; TCNA W244E.

END OF SECTION 06 4100

SECTION 083463 - DETENTION DOORS AND FRAMES

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:
1. Swinging detention doors.
2. Sliding detention doors
3. Detention panels.
4. Detention frames.

B. Related Requirements:
1. Section 087163 "Detention Door Hardware" for door hardware for detention doors.

1.3 DEFINITIONS

A. Minimum-Thickness Steel: Indicated as the specified minimum thicknesses for base metal without coatings, according to NAAMM-HMMA 803.

B. Nominal-Thickness Stainless Steel: Indicated as the specified thicknesses for which over- and under-thickness tolerances apply, according to ASTM A480/A480M.

1.4 COORDINATION

A. Coordinate installation of anchorages for detention frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors that are to be embedded in adjacent construction. Deliver such items to Project site in time for installation.

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.6 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Include construction details, material descriptions, core descriptions, label compliance, fire-resistance rating, and finishes for each detention door and frame type specified.

B. Shop Drawings: In addition to requirements below, provide a schedule using same reference numbers for details and openings as those on Drawings:
1. Elevations of each door type.
2. Direction of swing.
3. Inmate and non-inmate sides.
4. Details of doors, including vertical and horizontal edge details, and metal thicknesses.
5. Details of frames, including dimensioned profiles, and metal thicknesses.

6. Locations of reinforcement and preparations for hardware.
7. Details of each different wall opening condition.
8. Details of anchorages, joints, field splices, and connections.
9. Details of food-pass openings.
10. Details of moldings, removable stops, and glazing.
11. Details of conduits, junction boxes, and preparations for electrically operated door hardware.

1.7 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Anchor inspection reports, documenting inspections of built-in and cast-in anchors.

C. Field quality-control reports, documenting inspections of installed products.
1. Field quality-control certification, signed by Contractor and Detention Specialist.

1.8 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Security Fasteners: Furnish not less than one box for every 50 boxes or fraction thereof, of each type and size of security fastener installed.
2. Tools: Provide two sets of tools for installing and removing security fasteners.

1.9 QUALITY ASSURANCE

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

B. Welding Qualifications: Qualify procedures and personnel according to the following:
1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."
3. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver detention hollow-metal work palletized, packaged, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.

B. Deliver detention frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store detention hollow-metal work vertically under cover at Project site with head up. Place on minimum 4-inch- (102-mm-) high wood blocking. Provide minimum 1/4-inch (6.3-mm) space between each stacked door to permit air circulation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. Ceco Door Products; an ASSA ABLOY
2. Custom Products Division; Chief Industries, Inc
3.. Habersham Metal Products Co
4. Sweeper Metal Fabricators Corp.
5. Trussbilt; an ASSA ABLOY group company

B. Source Limitations: Obtain detention doors and frames from single source from single manufacturer.

2.2 REGULATORY REQUIREMENTS

A. Fire-Rated Assemblies: Complying with NFPA 80 and listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.

1. Smoke- and Draft-Control Assemblies: Provide an assembly with gaskets listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105.
2. Oversize Fire-Rated Assemblies: For units exceeding sizes of tested assemblies, provide certification by a qualified testing agency that doors comply with standard construction requirements for tested and labeled fire-rated door assemblies except for size.

B. Fire-Rated, Borrowed-Light Assemblies: Complying with NFPA 80 and listed and labeled by a qualified testing and inspecting agency acceptable to authorities having jurisdiction for fire protection ratings indicated, based on testing according to NFPA 257 or UL 9.

2.3 DETENTION DOOR AND FRAME ASSEMBLIES

A. Detention Door and Frame Assemblies: Provide detention door and frame assemblies that comply with the following, based on testing manufacturer's standard units in assemblies similar to those indicated for this Project:

1. Security Grade: Assemblies pass testing requirements in ASTM F1450 for security grades specified.
2. Tool-Attack Resistance: Small-tool-attack-resistance rated when tested according to UL 437 and UL 1034.

B. Detention Frames: Provide sidelight and borrowed-light detention frames that comply with ASTM F1592 and removable stop test according to NAAMM-HMMA 863, based on testing manufacturer's standard units in assemblies similar to those indicated for this Project.

2.4 DETENTION DOORS

A. General: Provide flush-design detention doors of seamless hollow construction, 2 inches (51 mm) thick unless otherwise indicated. Construct detention doors with smooth, flush surfaces without visible joints or seams on exposed faces or stile edges.
   1. For single-acting swinging detention doors, bevel both vertical edges 1/8 inch in 2 inches (3 mm in 51 mm).
   2. For sliding detention doors, square both vertical edges.

B. Core Construction: Provide the following core construction of same material as detention door face sheets, welded to both detention door faces:
   1. Steel-Stiffened Core: 0.042-inch- (1.0-mm-) thick, steel vertical stiffeners extending full door height, with vertical webs spaced not more than 4 inches (102 mm) apart, spot welded to face sheets a maximum of 3 inches (76 mm) o.c. Fill spaces between stiffeners with insulation.
   2. Truss-Stiffened Core: 0.013-inch- (0.3-mm-) thick, steel, truncated triangular stiffeners extending between face sheets and for full height and width of door; with stiffeners welded to face sheets not more than 3 inches (76 mm) o.c. vertically and 2-3/4 inches (70 mm) horizontally. Fill spaces between stiffeners with insulation.

C. Vertical Edge Channels: 0.123-inch- (3.1-mm-) thick, continuous channel of same material as detention door face sheets, extending full-door height at each vertical edge; welded to top and bottom channels to create a fully welded perimeter channel. Noncontiguous channel is permitted to accommodate lock-edge hardware only if lock reinforcement is welded to and made integral with channel.

D. Top and Bottom Channels: 0.123-inch- (3.1-mm-) thick metal channel of same material as detention door face sheets, spot welded, not more than 4 inches (102 mm) o.c., to face sheets.
   1. Reinforce top edge of detention door with 0.053-inch- (1.3-mm-) thick closing channel, welded so channel web is flush with top door edges.

E. Hardware Reinforcement: Fabricate reinforcing plates from same material as detention door face sheets to comply with the following minimum thicknesses:
   1. Full-Mortise Hinges and Pivots: 0.187 inch (4.7 mm) thick.
   2. Maximum-Security Surface Hinges: 0.250 inch (6.3 mm) thick.
   3. Strike Reinforcements: 0.187 inch (4.7 mm) thick.
   4. Slide-Device Hanger Attachments: As recommended by device manufacturer.
   5. Lock Fronts, Concealed Holders, and Surface-Mounted Closers: 0.093 inch (2.3 mm) thick.
   6. All Other Surface-Mounted Hardware: 0.093 inch (2.3 mm) thick.
   7. Lock Pockets: 0.123 inch (3.1 mm) thick at non-inmate side, welded to face sheet.

F. Hardware Enclosures: Provide enclosures and junction boxes for electrically operated detention door hardware of same material as detention door face sheets, interconnected with UL-approved, 1/2-inch- (12.7-mm-) diameter conduit and connectors.

1. Access Plates: Where indicated for wiring installation, provide access plates to junction boxes, fabricated from same material and thickness as face sheet and fastened with at least four security fasteners spaced not more than 6 inches (152 mm) o.c.

G. Interior Detention Doors: Construct interior doors to comply with materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances indicated in NAAMM-HMMA 863 and as specified.
1. Security Grade 2: Provide doors with face sheets of 0.093-inch- (2.3-mm-) minimum thickness, cold-rolled steel.
2. Security Grade 3: Provide doors with face sheets of 0.067-inch- (1.7-mm-) minimum thickness, cold-rolled, steel.
3. Security Grade 4: Provide doors with face sheets of 0.051-inch- (1.3-mm-) minimum thickness, cold-rolled, steel.

2.5 DETENTION FRAMES

A. General: Provide fully welded detention frames with integral stops, of seamless construction without visible joints or seams. Fabricate detention frames with contact edges closed tight and corners mitered, reinforced, and continuously welded full depth and width of detention frame.

B. Stop Height: Provide minimum stop height of 0.625 inch (16 mm) for detention door openings and minimum stop height of 1-1/4 inches (32 mm) in security glazing or detention panel openings unless otherwise indicated.

C. Interior Detention Frames: Construct interior frames to comply with materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances indicated in NAAMMHMMA 863 and as specified.
1. Security Grade 2: Provide frames fabricated from 0.093-inch- (2.3-mm-) minimum thickness, cold-rolled steel.
2. Security Grade 3: Provide frames fabricated from 0.067-inch- (1.7-mm-) minimum thickness, cold-rolled steel.
3. Security Grade 4: Provide doors with face sheets of 0.051-inch- (1.3-mm-) minimum thickness, cold-rolled, steel.

D. Hardware Reinforcement: Fabricate reinforcing plates from same material as detention frame to comply with the following minimum thicknesses:
1. Hinges and Pivots: 0.187 inch (4.7 mm) thick by 1-1/2 inches (38 mm) wide by 10 inches (254 mm) long.
2. Strikes, Flush Bolts, and Closers: 0.187 inch (4.7 mm) thick.
3. Surface-Mounted Hardware: 0.093 inch (2.3 mm) thick.
4. Lock Pockets: 0.123 inch (3.1 mm) thick at non-inmate side, welded to face sheet. Provide 0.123-inch- (3.1-mm-) thick, lock protection plate for attachment to lock pocket with security fasteners.

E. Hardware Enclosures: Provide enclosures and junction boxes for electrically operated detention door hardware, interconnected with UL-approved, 1/2-inch- (12.7-mm-) diameter conduit and connectors.
   1. Access Plates: Where indicated for wiring installation, provide access plates to junction boxes, fabricated from same material and thickness as face sheet and fastened with at least four security fasteners spaced not more than 6 inches (152 mm) o.c.

F. Mullions and Transom Bars: Provide closed or tubular mullions and transom bars where indicated. Fasten mullions and transom bars at crossings and to jambs by butt welding. Reinforce joints between detention frame members with concealed clip angles or sleeves of same metal and thickness as detention frame.

G. Jamb Anchors: Weld jamb anchors to detention frames near hinges and directly opposite on strike jamb or as required to secure detention frames to adjacent construction.
   1. Number of Anchors: Provide two anchors per jamb plus the following:
      a. Detention Door Frames: One additional anchor for each 18 inches (457 mm), or fraction thereof, above 54 inches (1372 mm) in height.
      b. Detention Frames with Security Glazing or Detention Panels: One additional anchor for each 18 inches (457 mm), or fraction thereof, above 36 inches (914 mm) in height.
   2. Masonry Anchors: Adjustable, perforated, strap-and-stirrup anchors to suit detention frame size; formed of same material and thickness as detention frame; with strap not less than 2 inches (51 mm) wide by 10 inches (254 mm) long.

H. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, formed of same material and thickness as detention frame, and as follows:
   1. Monolithic Concrete Slabs: Clip anchors, with two holes to receive fasteners, welded to bottom of jambs and mullions with at least four spot welds per anchor.
   2. Separate Topping Concrete Slabs: Adjustable anchors with extension clips, allowing not less than 2-inch (51-mm) height adjustment, welded to jambs and mullions with at least four spot welds per anchor. Terminate bottom of detention frames at finish floor surface.

I. Rubber Door Silencers: Except on weather-stripped detention doors, drill stops in strike jambs to receive three silencers on single-detention-door frames and drill head jamb stop to receive two silencers on double-detention-door frames. Keep holes clear during construction.

J. Grout Guards: Provide factory-installed grout guards of same material as detention frame, welded to detention frame at back of hardware cutouts, silencers, and glazing-stop screw preparations to close off interior of openings and prevent mortar or other materials from obstructing hardware operation or installation.

2.6 DETENTION PANELS

A. Provide fixed detention panels of same materials, construction, and finish as specified for adjoining detention door.

2.7 MOLDINGS AND STOPS

A. Provide fixed moldings on inmate side of glazed openings and removable stops on non-inmate side.
   1. Height: As required to provide minimum 1-inch (25-mm) glass engagement, but not less than 1-1/4 inches (32 mm).
   2. Fixed Moldings: Formed from same material as detention door and frame face sheets, but not less than 0.093-inch (2.3 mm) thick, and spot welded to face sheets a maximum of 5 inches (127 mm) o.c.
   3. Removable Stops: Formed from 0.123-inch- (3.1-mm-) thick angle, of same material as detention door face sheets. Secure with button head security fasteners spaced uniformly not more than 6 inches (152 mm) o.c. and not more than 2 inches (51 mm) from each corner, and as necessary to satisfy performance requirements. Form corners with notched or mitered hairline joints.

B. Coordinate rabbet width between fixed and removable stops with glass or panel type and installation type indicated.

2.8 MATERIALS

A. Hot-Rolled Steel Sheet: ASTM A1011/A1011M, CS (Commercial Steel), Type B; free of scale, pitting, or surface defects; pickled and oiled.

B. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, CS (Commercial Steel), Type B.

C. Metallic-Coated Steel Sheet: ASTM A653/A653M, CS (Commercial Steel), Type B; with G60 (Z180) zinc (galvanized) or A60 (ZF180) zinc-iron-alloy (galvannealed) coating designation.

D. Stainless-Steel Sheet: ASTM A240/A240M, austenitic stainless steel, Type 304.

E. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

F. Concealed Bolts: ASTM A307, Grade A unless otherwise indicated.

G. Masonry Anchors: Fabricated from same steel sheet as door face.

H. Embedded Anchors: Fabricated from mild steel shapes and plates, hot-dip galvanized according to ASTM A153/A153M.

I. Post-Installed Anchors: Torque-controlled expansion anchors.
   1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.

J. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

K. Glazing: Comply with Section 088853 "Security Glazing."

L. Grout: Comply with ASTM C476, with a slump of not more than 4 inches (102 mm) as measured according to ASTM C143/C143M.

M. Insulation: Slag-wool-fiber/rock-wool-fiber or glass-fiber blanket insulation. ASTM C665, Type I (unfaced); with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E136 for combustion characteristics. Minimum 1.5-lb/cu. ft. (24-kg/cu. m) density.

N. Bituminous Coating: Cold-applied asphalt mastic, compounded for 15-mil (0.4-mm) dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.9 FABRICATION

A. Fabricate detention doors and frames rigid, neat in appearance, and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for metal thickness. Weld exposed joints continuously; grind, fill, dress, and make smooth, flush, and invisible. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.

B. Tolerances: Fabricate detention doors and frames to comply with manufacturing tolerances indicated in NAAMM-HMMA 863.

C. Removable Jamb Faces: Provide removable jamb faces where required for access to embedded anchors. Fabricate to allow secure reattachment of removable face with security fasteners.

D. Fabricate multiple-opening detention frames with mullions that have closed tubular shapes and with no visible seams or joints.

E. Exterior Detention Doors: Provide weep-hole openings in bottoms of detention doors to permit entrapped moisture to escape. Seal joints in top edges of detention doors against water penetration.

F. Hardware Preparation: Factory prepare detention doors and frames to receive mortised hardware, including cutouts, reinforcement, mortising, drilling, and tapping, according to final Door Hardware Schedule and templates provided by detention door hardware supplier.
   1. Reinforce detention doors and frames to receive surface-mounted door hardware. Drilling and tapping may be done at Project site.
   2. Locate door hardware according to NAAMM-HMMA 863.

G. Factory cut openings in detention doors.

H. Weld components to comply with referenced AWS standard. Weld before finishing components to greatest extent possible. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

2.10 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM-NOMMA 500, "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Finish detention doors and frames after assembly.

2.11 METALLIC-COATED STEEL SHEET FINISHES

A. Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free of oil and other contaminants. After cleaning, apply a conversion coating suited to the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas and apply galvanizing repair paint, complying with SSPC-Paint 20, to comply with ASTM A780/A780M.

B. Factory Priming for Field-Painted Finish: Apply shop primer specified in "Shop Primer" Subparagraph below immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mil (0.02 mm).

1. Shop Primer: Manufacturer's or fabricator's standard, fast-curing, lead- and chromate free primer complying with SDI A250.10 acceptance criteria; recommended by primer manufacturer for zinc-coated steel; compatible with substrate and field-applied finish paint system indicated; and providing a sound foundation for field-applied topcoats despite prolonged exposure.

2.12 STAINLESS-STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Run grain of directional finishes with long dimension of each piece.
2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
3. Directional Satin Finish: No. 4.

2.13 SECURITY FASTENERS

A. Operable only by tools produced by fastener manufacturer or other licensed fabricator for use on specific fastener type. Provide drive-system type, head style, material, and protective coating as required for assembly, installation, and strength, and as follows:

1. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, but are not limited to, the following:
   a. Acument Global Technologies North America
   b. Bryca Fastener
   c. Safety Socket LLC
   d. Tamperproof Screw Co
   e. Tamper-Pruf Screws
2. Drive-System Type: Pinned Torx-Plus or [Pinned Torx.
3. Fastener Strength: 120,000 psi (827 MPa).

4. Protective Coatings for Heat-Treated Alloy Steel:
   a. Zinc phosphate with oil, ASTM F1137, Grade I, or black oxide unless otherwise indicated.

2.14 SEALANTS

A. Epoxy Security Sealants: Manufacturer's standard, nonsag, tamper-resistant sealant for joints with no movement.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the work include, but are not limited to, the following:
   a. BASF Construction Chemicals LLC, Building Systems; Epolith-G
   b. Eucli Company (The) an RPM Company; Euco Model No 452-P
   c. Pecora Corporation; Dnyapoxy EP-1200

2. Security Sealant shall have a VOC content of 250 g/l or less when calculated according to 40 CFR 59, subpart D (EPA Method 24)

2.15 ACCESSORIES

A. Concealed Bolts: ASTM A307, Grade A unless otherwise indicated.

B. Embedded Plate Anchors: Fabricated from mild steel shapes and plates, minimum 3/16-inch (4.8 mm) thick; with minimum 1/2-inch- (12.7-mm-) diameter, headed studs welded to back of plate.

C. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

D. Pass-Through Openings: Fabricate flush openings using 0.093-inch- (2.3-mm-) thick, interior channels of same material as detention door faces, inverted to be flush with openings, welded to inside of both face sheets and with corners fully welded. Mount shutters on non-inmate side of detention doors. Reinforce for locks and food-pass hinges.

1. Inset Shutters: Fabricate from two steel plates, 0.123 inch (3.1 mm) thick, of same material as detention door face sheets, spot welded together and sized to inset inside opening and to prevent inmate tampering of lock and hinges.
2. Overlapping Shutters: For surface application on non-inmate side of door. Fabricate from a single steel plate, of same material as detention door face sheets, 0.187 inch (4.7 mm) thick, sized to overlap food-pass openings by 1/2 inch (12.7 mm).

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roughing-in for embedded and built-in anchors to verify actual locations of detention frame connections before detention frame installation.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

D. Inspect embedded plate installations before installing detention frames to verify that plate installations comply with requirements. Prepare inspection reports.
   1. Remove and replace plates where inspections indicate that they do not comply with specified requirements. Reinspect after repairs or replacements are made.
   2. Perform additional inspections to determine compliance of replaced or additional work.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove welded-in shipping spreaders installed at factory.

B. Before installation and with shipping spreaders removed, adjust detention frames for squareness, alignment, twist, and plumbness to the following tolerances:
   1. Squareness: Plus or minus 1/16 inch (1.6 mm), measured at door rabbet on a line 90 degrees from jamb and perpendicular to frame head.
   2. Alignment: Plus or minus 1/16 inch (1.6 mm), measured at jambs on a horizontal line parallel to plane of face.
   3. Twist: Plus or minus 1/16 inch (1.6 mm), measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of door rabbet.
   4. Plumbness: Plus or minus 1/16 inch (1.6 mm), measured at jambs on a perpendicular line from head to floor.

3.3 INSTALLATION

A. General: Install detention doors and frames plumb, rigid, properly aligned, and securely fastened in place, complying with Drawings, schedules, and manufacturer's written instructions.

B. Anchorage: Set detention frame anchorage devices according to details on Shop Drawings and according to anchorage device manufacturer's written instructions.
   1. Masonry Anchors: Coordinate frame installation to allow for solidly filling space between frames and masonry with grout.
   2. Embedded Anchors: Install embedded plates in wall surrounding frame openings to match frame angle locations.
   3. Postinstalled Anchors: Drill holes in existing construction at locations to match bolt locations, and install bolt expansion shields or inserts.

C. Where detention frames are fabricated in sections due to shipping limitations, assemble frames and install angle splices at each corner, of same material and thickness as detention frame, and extend at least 4 inches (102 mm) on both sides of joint.
   1. Field splice only at approved locations. Weld, grind, and finish as required to conceal evidence of splicing on exposed faces.

2. Continuously weld and finish smooth joints between faces of abutted, multiple-opening, detention frame members.
3. Field Welding: Comply with the following requirements:
   a. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   b. Obtain fusion without undercut or overlap.
   c. Remove welding flux immediately.
   d. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Apply bituminous coating to backs of frames before filling with grout.

E. Placing Detention Frames: Install detention frames of sizes and profiles indicated. Set detention frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
1. Embedded Anchors: Remove jamb faces from detention frames and set detention frames into opening. Weld steel connector angle to frame angle and to embedded plate with 1- inch- (25-mm-) long welds at each end of connector angle to form a rigid frame assembly that is solidly anchored. Reinstall jamb faces using security fasteners.
2. Postinstalled Anchors: Install bolt. After bolt is tightened, weld bolt head to provide nonremovable condition. Grind, dress, and finish smooth welded bolt head.
3. At fire-rated openings, install detention frames according to NFPA 80.
4. Install detention frames with removable stops located on non-inmate side of opening.

F. Grout: Fully grout detention frame jambs and heads. Completely fill space between frames and adjacent substrates. Hand trowel grout and take other precautions, including bracing detention frames, to ensure that frames are not deformed or damaged by grout forces.

G. Security Sealant: Apply epoxy security sealant at all exposed gaps between detention frames and adjacent substrates.

H. Swinging Detention Doors: Fit non-fire-rated detention doors accurately in their frames, with the following clearances:
1. Between Doors and Frames at Jambs and Head: 1/8 inch (3.2 mm).
2. Between Edges of Pairs of Doors: 1/8 inch (3.2 mm).
3. At Door Sills with Threshold: 3/8 inch (9.5 mm).
4. At Door Sills without Threshold: 3/4 inch (19 mm).
5. Between Door Bottom and Nominal Surface of Floor Covering: 1/2 inch (12.7 mm).

I. Sliding Detention Doors: Fit sliding detention doors in their frames according to manufacturer's written instructions and as required to allow doors to slide without binding.

J. Fire-Rated Detention Doors: Install with clearances as specified in NFPA 80.

K. Smoke-Control Detention Doors: Install according to NFPA 105.

L. Installation Tolerances: Comply with installation tolerances indicated in NAAMM-HMMA 863.

M. Glazing: Comply with installation requirements in Section 088853 "Security Glazing" unless otherwise indicated.

3.4 FIELD QUALITY CONTROL

A. Inspect installed products to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.

B. Detention work will be considered defective if it does not pass tests and inspections.

C. Perform additional inspections to determine compliance of replaced or additional work.

D. Prepare field quality-control certification endorsed by Detention Specialist that states installed products comply with requirements in the Contract Documents.

E. For verification that construction complies with requirements, select one detention door at random from detention doors delivered to Project and have it cut in half or otherwise taken apart.
   1. Test Method: Verify weld strength by prying or chiseling door apart at edge seams, end channels, or stiffeners. Not more than 5 percent of welds may fail test.
      a. If tested door fails, replace, or rework all detention doors to bring them into compliance at Contractor's expense.
      b. If tested door passes, replace tested door at Contractor's expense.

F. Prepare test and inspection reports.

3.5 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including detention doors and frames that are warped, bowed, or otherwise unacceptable.

B. Clean grout and other bonding material off detention doors and frames immediately after installation.

C. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas, and repair galvanizing to comply with ASTM A780/A780M.

D. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.
   1. After finishing smooth field welds, apply air-drying primer.

END OF SECTION

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Detention Doors and Frames"
   b. "Sectional Overhead Doors"
   c. "Security Windows"
   d. "Security Glazing"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
   a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
   b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
   a. Wiring Diagrams: For power, signal, and control wiring and including:
      1) Details of interface of electrified door hardware and building safety and security systems.
      2) Schematic diagram of systems that interface with electrified door hardware.
      3) Point-to-point wiring.
      4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
   a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:
   a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.

b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
c. Indicate complete designations of each item required for each opening, include:
    1) Door Index: door number, heading number, and Architect's hardware set number.
    2) Quantity, type, style, function, size, and finish of each hardware item.
    3) Name and manufacturer of each item.
    4) Fastenings and other pertinent information.
    5) Location of each hardware set cross-referenced to indications on Drawings.
    6) Explanation of all abbreviations, symbols, and codes contained in schedule.
    7) Mounting locations for hardware.
    8) Door and frame sizes and materials.
    9) Degree of door swing and handing.
    10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:
    a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
    b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
    c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
    d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
    e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
    f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
    a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
    b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
    a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
    b. Catalog pages for each product.
    c. Final approved hardware schedule edited to reflect conditions as installed.
    d. Final keying schedule
    e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
    f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
   a. Fire door assemblies, in compliance with NFPA 80.
   b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
   a. For door hardware: DHI certified AHC or DHC.
   b. Can provide installation and technical data to Architect and other related subcontractors.
   c. Can inspect and verify components are in working order upon completion of installation.
   d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:
   a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
   b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

2. Smoke and Draft Control Door Assemblies:
   a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
   b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.

3. Electrified Door Hardware
   a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

4. Accessibility Requirements:
    a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference
    a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
        1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
        2) Preliminary key system schematic diagram.
        3) Requirements for key control system.
        4) Requirements for access control.
        5) Address for delivery of keys.

2. Pre-installation Conference
    a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
    b. Inspect and discuss preparatory work performed by other trades.
    c. Inspect and discuss electrical roughing-in for electrified door hardware.
    d. Review sequence of operation for each type of electrified door hardware.
    e. Review required testing, inspecting, and certifying procedures.
    f. Review questions or concerns related to proper installation and adjustment of door hardware.

3. Electrified Hardware Coordination Conference:
    a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
    a. Mechanical Warranty
        1) Locks
            a) Schlage ND Series: 10 years
        2) Exit Devices
            a) Von Duprin: 10 years
        3) Closers
            a) LCN 4000 Series: 30 years
        4) Cylinders
            a) 3 years

1.08 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Approval of alternate manufacturers and/or products other than those listed as ''Scheduled Manufacturer'' or ''Acceptable Manufacturers'' in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series
   b. Stanley

2. Acceptable Manufacturers and Products:
   a. Hager BB1191/1279 series
   b. McKinney TB series
   c. Best FBB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Exterior Doors: Non-removable pins
   d. Out-Swinging Interior Lockable Doors: Non-removable pins
   e. Interior Non-lockable Doors: Non-rising pins

9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Select
   b. Best
   c. Roton
   d. ABH
   e. Hager

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.

6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage ND series

2. Acceptable Manufacturers and Products:
   a. Best

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide escutcheon with lock status indicator window on top of lockset rose:
   a. Escutcheon height (including rose) 6.05 inches high by 3.68 inches wide.
   b. Indicator window measuring a minimum 3.52-inch by .60 inch with 1.92 square-inches of front facing viewing area and 180-degree visibility with a total of .236 square-inches of total viewable area.
   c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
   d. Provide messages color-coded with full text and symbol, as scheduled, for easy visibility.
   e. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
3. Cylinders: Refer to "KEYING" article, herein.
4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Provide electrified options as scheduled in the hardware sets.
9. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
   a. Lever Design: RHODES

2.06 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Von Duprin 98/35A series

2. Acceptable Manufacturers and Products:
   a. Precision APEX 2000 series

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Provide exit devices with manufacturer's approved strikes.
9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
14. Provide electrified options as scheduled.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.07 ELECTRIC STRIKES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Von Duprin 6000 Series

2. Acceptable Manufacturers and Products:
   a. Folger Adam 300 Series
   b. HES 1006 Series

B. Requirements:

1. Provide electric strikes designed for use with type of locks shown at each opening.
2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
3. Where required, provide electric strikes UL Listed for fire doors and frames.
4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

2.08 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Best Patented
   b. IE-7YPATD626

2. Acceptable Manufacturers and Products:
   a. No Substitute-Owner standard

B. Requirements:

1. Provide cylinders/cores compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset; manufacturer's series as indicated. Refer to "KEYING" article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
   a. Patented Restricted Small Format: cylinder with small format interchangeable cores (SFIC) with restricted, patented keyway.
3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent protected.
4. Nickel silver bottom pins.

2.09 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4040XP series

2. Acceptable Manufacturers and Products:
   a. Sargent 281 series

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.

9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
11. Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.10 CONCEALED DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 2030 series

2. Acceptable Manufacturers and Products:

B. Requirements:

1. Provide concealed door closers at doors conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory.
2. Provide heavy duty, single-acting closers with single lever arm and roller assembly.
3. Provide closers capable of being mounted in a minimum 1-3/4-inch header.
4. Provide concealed door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
5. Cylinder Body: 1-1/8-inch (29 mm) piston diameter, with 5/8-inch (16 mm) diameter heat-treated pinion journal.
6. Provide all-weather hydraulic fluid, fireproof, passing requirements of UL10C.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide special template, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.11 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Elmes
   b. Burns
   c. Trimco
   d. Rockwood

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.12 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Trimco
   c. Rockwood

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.13 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
   a. Glynn-Johnson

2. Acceptable Manufacturers:
   a. Rixson
   b. Sargent
   c. ABH

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.14 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Zero International

2. Acceptable Manufacturers:
   a. National Guard
   b. Reese
   c. DHSI
   d. Legacy
   e. Pemko

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.

2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.15 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.16 MAGNETIC HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. LCN

2. Acceptable Manufacturers:
   a. Rixson
   b. Sargent

B. Requirements:

1. Provide wall or floor mounted electromagnetic door release as specified with minimum of 25 pounds of holding force. Coordinate projection of holder and armature with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Connect magnetic holders on fire-rated doors into the fire control panel for fail-safe operation.

2.17 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)

4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

J. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

K. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.

L. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

M. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.

2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

Abbreviation	Name
BES	Best Locking Systems
GLY	Glynn-Johnson Corp
IVE	H.B. Ives
LCN	LCN Commercial Division
SCH	Schlage Lock Company
TRI	Trimco/Bbw/Quality
VON	Von Duprin
ZER	Zero International Inc

117465 OPT0385117 Version 1

HW SET: 01

For use on Door #(s):
35 36

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP		630	IVE
1	EA	VANDL STOREROOM LOCK	ND96BD RHO		626	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626		606	BES
1	EA	SURFACE CLOSER	4040XP SCUSH MC		689	LCN
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	GASKETING	8303AA		AA	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A-223		A	ZER

HW SET: 02

For use on Door #(s):
3

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	ND80BD RHO		626	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626		606	BES
1	EA	ELECTRIC STRIKE	6211 FSE 12/16/24/28 VAC/VDC	↯	630	VON
1	EA	WALL STOP	WS406/407CCV		630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA MC		689	LCN
3	EA	SILENCER	SR64		GRY	IVE
1	EA	CREDENTIAL READER.	BY DIVISION 28	↯		
1	EA	DOOR CONTACT.	BY DIVISION 28 PREP BY DIV8	↯		
1	EA	LOW VOLTAGE POWER.	BY DIVISION 28	↯		

OPERATION:
DOOR NORMALLY CLOSED AND LOCKED.
ENTRY BY CARD READER TO TEMPORARILY RELEASE THE ELECTRIC STRIKE, USER OPENS DOOR TO ENTER.
DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL SYSTEM.
EGRESS AT ALL TIMES BY INSIDE LEVER.

HW SET: 03

For use on Door #(s):
7

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80BD RHO	626	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	WALL STOP	WS406/407CCV	630	GLY
1	EA	SURFACE CLOSER	4040XP HW/PA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 04

For use on Door #(s):
10 12

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ND80BD RHO	626	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	WALL STOP	WS406/407CCV	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA MC	689	LCN
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 05

For use on Door #(s):
88 89 90 91 92 93
94

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70BD RHO	626	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	OH STOP	90S	630	GLY
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 06

For use on Door #(s):

4	5	8	9			

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	ND70BD RHO	626	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	WALL STOP	WS406/407CCV	630	GLY
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 07

For use on Door #(s):

2	6	33

Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S RHO OS-LOC	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA MC	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA ZAG	BK	ZER

HW SET: 105L

For use on Door #(s):

34	41	42	44	45	67
68	70				

Each to have:

3	EA	HINGE	5BB1 HT 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80BD HSLR	630	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	WALL STOP	WS406/407CCV	630	GLY
1	EA	CONCEALED CLOSER	2030 BUMP TORX	689	LCN
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 106L

For use on Door #(s):
69

Each to have:

3	EA	HINGE	5BB1 HT 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80BD HSLR	630	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	WALL STOP	WS406/407CCV	630	GLY
1	EA	CONCEALED CLOSER	2030 BUMP TORX	689	LCN
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 107L

For use on Door #(s):
72

Each to have:

3	EA	HINGE	5BB1 HT 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80BD HSLR	630	SCH
1	EA	SFIC PERMANENT CORE	1E-74 PATD 626	606	BES
1	EA	WALL STOP	WS406/407CCV	630	GLY
1	EA	CONCEALED CLOSER	2030 BUMP TORX	689	LCN
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 108L

For use on Door #(s):
34B

Each to have:

3	EA	HINGE	5BB1 HT 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S HSLR	630	SCH
1	EA	CONCEALED CLOSER	2030 BUMP TORX	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MAGNET	SEM7850 12V/24V/120V	689	LCN
1	EA	GASKETING	488SBK PSA ZAG	BK	ZER

HW SET: 109L

For use on Door #(s):
34A 61 75

Each to have:

3	EA	HINGE	5BB1 HT 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	ND40S HSLR	630	SCH
1	EA	CONCEALED CLOSER	2030 BUMP TORX	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA ZAG	BK	ZER

HW SET: 110L

For use on Door #(s):
39 40

Each to have:

3	EA	HINGE	5BB1 HT 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S HSLR	630	SCH
1	EA	CONCEALED CLOSER	2030 BUMP TORX	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: A1

For use on Door #(s):
1

Each to have:

1	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	98-NL-OP-110MD	626	VON
1	EA	ELECTRIC STRIKE	6300 FSE 12/24 VAC/VDC	630	VON
1	EA	90 DEG OFFSET PULL	8190HD 10" STD	630	IVE
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	EA	GASKETING	8303AA	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223 (VERIFY SILL CONDITIONS)	A	ZER

VERIFY EXISITNG DOOR CONDITIONS FOR NEW HARDWARE

HW SET: D01 - Not Used

HW SET: DET01

For use on Door #(s):

11	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	37	38	43	46
47	48	49	50	51	52
53	54	55	56	57	58
59	60	62	63B	64	66
71	73	76	78	79	81
82	83	84	85	86	87
95					

Each to have:

New Doors

3	EA	HINGE	HT FBB191 4 ½ X 4 ½ NRP US 26D	ST
1	EA	DETENTION LOCK	AIRTEQ 9500 630 BY OTHERS	AI
1	EA	MORTISE CYLINDER	1E-74 PATD 626	BE
1	EA	DOOR POSITION SWITCH	REV B KIT-S 630 BY OTHERS	AI
1	EA	FLUSH PULL	1111C-BTB TORX 630	TR

Fire Rated Doors ADD

1	EA	GASKETING	ANTI-LIG 5050B HEAD & JAMBS	AI

HW SET: R1

For use on Door #(s):

63	65

Each to have:

	EA	NOTE	ALL HARDWARE BY ROLL UP DOOR MANUFACTURER

END OF SECTION

Door Numbers	HwSet#
1	A1
2	07
3	02
4	06
5	06
6	07
7	03
8	06
9	06
10	04
11	DET01
12	04
14	DET01
15	DET01
16	DET01
17	DET01
18	DET01
19	DET01
20	DET01
21	DET01
22	DET01
23	DET01
24	DET01
25	DET01
26	DET01
27	DET01
28	DET01
29	DET01
30	DET01
31	DET01
32	DET01
33	07
34	105L
34A	109L
34B	108L
35	01
36	01
37	DET01
38	DET01
39	110L
40	110L
41	105L
42	105L
43	DET01
44	105L
45	105L
46	DET01

Door Numbers	HwSet#
47	DET01
48	DET01
49	DET01
50	DET01
51	DET01
52	DET01
53	DET01
54	DET01
55	DET01
56	DET01
57	DET01
58	DET01
59	DET01
60	DET01
61	109L
62	DET01
63	R1
63B	DET01
64	DET01
65	R1
66	DET01
67	105L
68	105L
69	106L
70	105L
71	DET01
72	107L
73	DET01
74	
75	109L
76	DET01
78	DET01
79	DET01
81	DET01
82	DET01
83	DET01
84	DET01
85	DET01
86	DET01
87	DET01
88	05
89	05
90	05
91	05
92	05
93	05
94	05

Door Numbers	HwSet#
95	DET01

PHASE 1 PART A:

TWIN FALLS COUNTY - WRIGHT AVE. JAIL

2515 Wright Ave, Twin Falls, ID 83301

PH 1 PART A SHEET INDEX	
Sheet Number	Sheet Name
A1A-0.0	TITLE SHEET
A1A-0.1	CODE ANALYSIS
A1A-0.2	CODE ANALYSIS- OCCUPANCY
A1A-0.3	CODE ANALYSIS - EXITING
A1A-0.4	CODE ANALYSIS - FIRE & SMOKE
A1A-0.5	FIRE PENETRATIONS
A1A-0.6	CODE REQUIREMENTS
A1A-0.7	CODE REQUIREMENTS
A1A-1.0	PH 1 PART A DEMO SITE PLAN
A1A-1.1	PH 1 PART A REMODEL SITE PLAN
C-1	SITE PLAN
C-2	GRADING PLAN
C-3	UTILITY PLAN
C-4	DETAILS
C-5	LAND PLAT
A1A-1.2	PH 1 PART A DEMO FLOOR PLAN
A1A-1.3	PH 1 PART A DEMO ELEVATIONS
A1A-1.5	PH 1 PART A DEMO CEILING PLAN
A1A-2.0	PH 1 PART A FLOOR PLAN
A1A-2.1	ENLARGED FLOOR PLANS
A1A-2.3	ENLARGED FLOOR PLAN
A1A-2.4	ENLARGED FLOOR PLAN
A1A-3.0	PH 1 PART A EXTERIOR ELEVATIONS
A1A-4.0	PH 1 PART A ROOF PLAN
A1A-5.0	PH 1 PART A BUILDING SECTIONS
A1A-5.1	PH 1 PART A BUILDING SECTIONS
A1A-7.0	PH 1 PART A REMODEL CEILING PLAN
A1A-8.0	INTERIOR ELEVATIONS
A1A-9.0	FINISH SCHEDULE
A1A-9.1	DOOR SCHEDULE
A1A-10.0	DETAILS - SITE
A1A-10.1	DETAIL - TRASH ENCLOSURE
A1A-10.2	DETAILS - MATERIALS, DOORS, & WINDOWS
A1A-10.4	DETAILS STAIR
A1A-10.5	DETAILS MISC
A1A-10.6	DETAILS CEILING
A1A-10.7	DETAILS ROOF
A1A-10.8	ROOF DETAILS
A1A-10.9	DETAILS CASEWORK
S1.0	GENERAL STRUCTURAL NOTES
S1.1	GENERAL STRUCTURAL NOTES
S1.2	TYPICAL DETAILS
S1.3	TYPICAL DETAILS
S1.4	TYPICAL DETAILS
S2.0	FOUNDATION PLAN
S2.1	ROOF FRAMING PLAN
S3.0	FOUNDATION DETAILS
S4.0	FRAMING DETAILS
S4.1	ROOF FRAMING PLAN
M1A-1.0	PH 1 PART A DEMO MECH. FLOOR PLAN
M1A-1.1	PHASE 1 PART A MECH. FLOOR PLAN
M1A-1.2	PH 1 PART A MECH ROOF PLAN
M1A-2.1	MECHANICAL SCHEDULE
M1A-2.2	MECHANICAL DETAILS
P1A-1.0	PH 1 PART A DEMO PLUMB. FLOOR PLAN
P1A-1.1	PH 1 PART A PLUMBING FLOOR PLAN
P1A-1.2	PH 1 PART A PLUMBING FLOOR PLAN
P1A-2.1	PLUMBING SCHEDULES AND DETAILS
E1A-0.0	ELECTRICAL SYMBOLS & DETAILS
E1A-0.1	ELECTRICAL SITE PLAN
E1A-0.2	EXISTING LIGHTING PLAN
E1A-0.3	EXISTING POWER / SYSTEMS PLAN
E1A-1.0	LIGHTING PLAN
E1A-2.0	POWER PLAN
E1A-2.1	ELECTRICAL ROOF PLAN
E1A-3.0	SPECIAL SYSTEMS PLAN
E1A-4.0	FIRE ALARM SYSTEM PLAN
E1A-5.0	POWER RISER DIAGRAMS & SCHEDULES
E1A-5.1	ELECTRICAL SCHEDULES & DETAILS
SCV	COVER SHEET
SA.0	DENTAL EQUIPMENT FLOOR PLAN
SED.1	DENTAL EQUIPMENT DETAILS

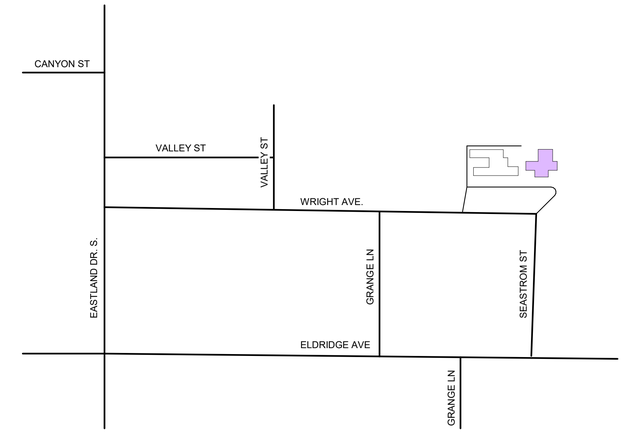
A1

GENERAL NOTES:

1. ALL WORK SHALL MEET CURRENT ADOPTED STATE, LOCAL CODES, ORDINANCES, & 2018 IBC & I.E.B.C. 2018.
2. ALL MECHANICAL, ELECTRICAL, & PLUMBING WORK SHALL MEET ALL CURRENT APPLICABLE STATE & LOCAL CODES.
3. ALL UTILITIES SHALL BE PROPERLY IDENTIFIED & LOCATED BEFORE WORK BEGINS ON PROJECT.
4. CONTRACTOR SHALL VERIFY ALL CONDITIONS & DIMENSIONS AT THE JOB SITE & NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINING OR FABRICATING ANY WORK.
5. DO NOT SCALE DRAWINGS.
6. ALL DOOR HANDLES SHALL BE LEVER TYPE, ALL DOOR HARDWARE SHALL BE A.D.A COMPLIANT AS PER CURRENT ANSI 117.1
7. AT MAIN ENTRANCE DOOR SHALL HAVE SINGLE ACTION LOCKING DEVICE &/ OR SIGNED "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED."

TWIN FALLS FIRE DEPARTMENT NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSURE THAT ALL DEFERRED SUBMITTALS REQUIRED BY THE FIRE DEPARTMENT **HAVE BEEN APPROVED BY THE STATE PRIOR TO THE INSTALLATION OF A FIRE ALARM AND/OR FIRE SPRINKLER SYSTEM.** IT SHALL ALSO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THAT ALL APPROPRIATE TESTING AND/OR INSPECTIONS HAVE BEEN PERFORMED BEFORE COVERING OR CALLING FOR A FINAL INSPECTION.
2. FIRE SPRINKLER UNDERGROUND PIPING
   THE UNDERGROUND FIRE SPRINKLER LINE MUST MEET NFPA 24 AND THE CITY OF TWIN FALLS STANDARDS. THE INSPECTION AND TESTING OF THE UNDERGROUND FIRE SPRINKLER LINE SHALL BE OVERSEEN BY THE TWIN FALLS FIRE MARSHALL.
3. SPRINKLER SYSTEM(S)
   SPRINKLER SYSTEM PLANS SHALL BE SENT TO THE STATE FIRE MARSHAL OFFICE AND DESIGNED IN ACCORDANCE WITH CURRENT NFPA 13 STANDARDS.
   IDAHO STATE FIRE MARSHAL
   700 WEST STATE STREET, 3RD FLOOR
   BOISE, IDAHO 83720
   PLANS SHALL MEET CURRENT IFC, NFPA 13R AND IDAHO STATE PLUMBING CODES, AND BE APPROVED PRIOR TO INSTALLATION.
4. FDC VISUAL ALARM A VISUAL ALARM DEVICE (EXTERIOR HORN/STROBE) SHALL BE PROVIDED IN THE AREA OF THE FDC.
5. APPROVED SIGNS SHALL BE INSTALLED ON THE FIRE RISER ROOM DOOR AND ON THE FIRE DEPARTMENT CONNECTION.



1 VICINITY MAP
N.T.S.

DESIGN TEAM:

CIVIL:
CIVIL SCIENCE
CONTACT: STEPHAN ANDERSEN
ADDRESS: 376 FALLS AVE
TWIN FALLS, ID 83301
PHONE: (208) 737-0007 X 210

MECHANICAL & PLUMBING:
ENGINEERED SYSTEMS ASSOCIATES
CONTACT: DAVE HANSEN
ADDRESS: 1355 EAST CENTER
POCATELLO, ID 83201
PHONE: (208) 233-0501

CODE CONSULTANT:
SHUMS CODA ASSOCIATES
CONTACT: STEVE THOMAS
ADDRESS: 5610 SOUTH ULSTER ST., STE 150
DENVER, CO 80237
PHONE: (303) 257-3572

STRUCTURAL:
RIDGE STRUCTURAL ENGINEERING
CONTACT: DAVID PORTER
ADDRESS: 1020 E. LINCOLN RD
IDAHO FALLS, ID 83401
PHONE: (208) 227-8404

ELECTRICAL:
PAYNE ENGINEERING INC
CONTACT: SHAWN MEADOR
ADDRESS: 1823 E. CENTER
POCATELLO, ID 83201
PHONE: (208) 232-4439

ABBREVIATIONS

AC	ACOUSTICAL CEILING	DIA	DIAMETER	GYP BD	GYPSUM BOARD	PL	PLATE, PLASTIC LAMINATE	T	THREAD
ADJ	ADJUSTABLE - ADJACENT	DIM	DIMENSION	HB	HOSE BIB	P-LAM	PLASTIC LAMINATE	TBB	TILE BACKER BOARD
AFF	ABOVE FINISH FLOOR	DF	DRINKING FOUNTAIN	HC	HANDICAPPED	PLWD	PLYWOOD	T&G	TONGUE AND GROOVE
AL	ALUMINUM	DP	DEEP	HDR	HEADER	PNL	PANEL	TO	TO OF
ALT	ALTERNATE	DR	DOOR	HM	HOLLOW METAL	PORC. TILE	PORCELAIN TILE	TOW	TOP OF WALL
ANOD	ANODIZED	DS	DOWNSPOUT	HORIZ	HORIZONTAL	PR	PAIR	TPD	TOILET PAPER DISPENSER
AP	ACOUSTICAL WALL PANEL	DWG	DRAWING	HT	HEIGHT	PSF	POUNDS PER SQUARE FOOT	TSCD	TOILET SEAT COVER DISPENSER
APPROX	APPROXIMATE	E	EAST	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	PSI	POUNDS PER SQUARE INCH	TT	TIRE TREAD
ARCH	ARCHITECT (-URAL)	(E)	EXISTING			PT	PAINT, PRESSURE TREATED	TYP	TYPICAL
AW	ACOUSTICAL WALL	EA	EACH	ILO	IN LIEU OF	PTD	PAPER TOWEL DISPENSER	UNO	UNLESS NOTED OTHERWISE
AWF	ACOUSTICAL WALL FABRIC	EJ	EXPANSION JOINT	INSUL	INSULATION	QT	QUARTZ TILE	U/S	UNDERSIDE
BLDG	BUILDING	EL	ELEVATION	INT	INTERIOR	R	RISER, RADIUS	VB	VAPOR BARRIER
BM	BEAM	ELEC	ELECTRIC (-AL)	JNT	JOINT	RB	RESILIENT BASE	VCT	VINYL COMPOSITION TILE
BOD	BOTTOM OF DECK	EP	ENAMEL PAINT	KD	KNOCK DOWN	RD	ROOF DRAIN	VERT	VERTICAL
BOT	BOTTOM	EQ	EQUAL	LAV	LAVATORY	RO	ROUGH OPENING	VGF	VINYL GYM FLOORING
BTWN	BETWEEN	EW	EACH WAY	MCFP	MULTI-COLORED FINISH PAINT SYSTEM	RR	RESTROOM	VIF	VINYL INDUSTRIAL FLOORING
CB	CATCH BASIN	EXG	EXISTING			RSF	RUBBER SHEET FLOORING	VR	VAPOR RETARDER
CBT	CABINET	EXP	EXPANSION	MDO	MEDIUM DENSITY OVERLAY PLYWOOD	S	SOUTH	VT	VINYL TILE
CG	CORNER GUARD	EXT	EXTERIOR			SC	SOLID CORE	VWF	VINYL WALL FABRIC
CJ	CONTROL JOINT	FA	FIRE ALARM	MECH	MECHANIC (-AL)	SCU	STRUCTURAL CLAY UNIT	W	WEST
CL	CENTERLINE	FD	FLOOR DRAIN	MFR	MANUFACTURE (-R)	SD	SOAP DISPENSER	W/C	WATER CLOSET
CLG	CEILING	FE	FIRE EXTINGUISHER	MIN	MINIMUM	SDSV	STATIC DISIPATIVE SHEET VINYL	WD	WOOD
CLR	CLEAR (-ANCE)	FEC	FIRE EXTINGUISHER CABINET	MISC	MISCELLANEOUS	SF	SPECIALTY FINISH	W/D	WASHER & DRYER
CMT	CERAMIC MOSAIC TILE	FF	FACTORY FINISH, FINISH FLOOR	MRGB	MOISTURE RESISTANT GYPSUM BOARD	SFGL	SAFETY GLASS	WDO	WINDOW
CMU	CONCRETE MASONRY UNIT	FIN	FINISH (-ED)			SHTG	SHEATHING	WF	WALL FABRIC
CO	CLEAN OUT	FLR	FLOOR (-ING)	MTL	METAL	SIM	SIMILAR	WFV	WOOD FACE VENEER
COL	COLUMN	FND	FOUNDATION	N	NORTH	SL	SLOPE	WG	WIRE GUARD
CONC	CONCRETE	FOC	FACE OF CONCRETE	(N)	NEW	SND	SANITARY NAPKIN DISPENSER	WGL	WIRED GLASS
CONT	CONTINUOUS, CONTINUE	FRP	FIBERGLASS REINFORCED PLASTIC PANEL	NA, N/A	NOT APPLICABLE	SP	SPACE (-S)	WM	WIRE MESH
CORR	CORRIDOR			NIC	NOT IN CONTRACT	SPEC	SPECIFICATION	W/O	WITHOUT
CP	CARPET	FRVR	FLAME RESISTANT VAPOR BARRIER	NDU	SANITARY NAPKIN DISPOSAL UNIT	SQ	SQUARE	WOC	WALK-OFF CARPET
CS	CONCRETE SLAB, SEALED	FT	FOOT, FEET			S/S	STAINLESS STEEL	WP	WATERPROOFING
CT	CERAMIC TILE	FTG	FOOTING	NOM	NOMINAL	ST	STAIN	WPS	WALL PROTECTION SYSTEM
CTJ	CONTROL JOINT	FWC	FABRIC WALL COVERING	NTS	NOT TO SCALE	STL	STEEL	WR	WATER RESISTANT
CTR	COUNTER (-TOP)	GA	GAUGE	OC	ON CENTER	STR	STRUCTURE (-AL)	WRGB	WATER RESISTANT GYPSUM WALLBOARD
DBL	DOUBLE	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	STRG	STORAGE		
DET	DETAIL	GH	GARMENT HOOK	OPP	OPPOSITE	SV	SHEET VINYL FLOORING	WWF	WELDED WIRE FABRIC
		GMM	GLASS MESH MORTAR BOARD	PCMU	PRE-FACED CMU			W/	WITH

LICENSED ARCHITECT
AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

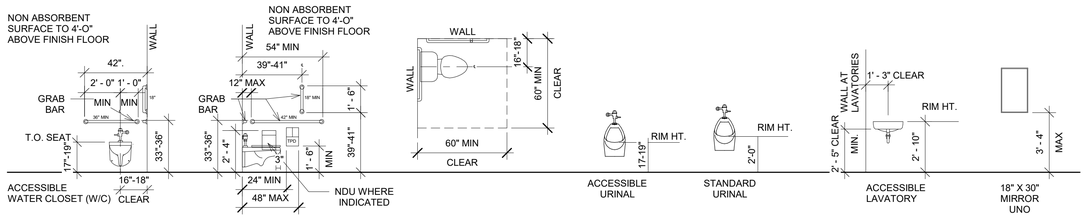
DATE	
8/8/24	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
TITLE SHEET

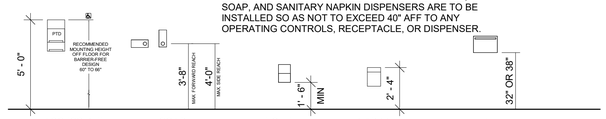
Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

A1A-0.0



NOTE: AT RESTROOMS/TOILET ROOMS THE TOWEL, SOAP, AND SANITARY NAPKIN DISPENSERS ARE TO BE INSTALLED SO AS NOT TO EXCEED 40" AFF TO ANY OPERATING CONTROLS, RECEPTACLE, OR DISPENSER.



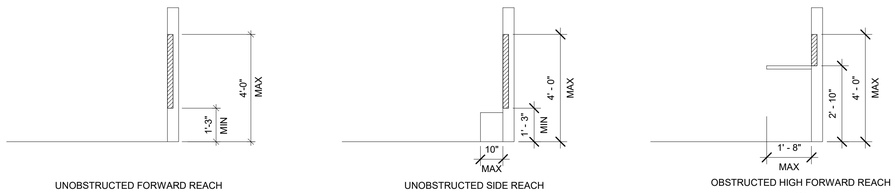
1. PROTECTION UNDER SINKS
606.6 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

2. FLUSH CONTROLS
604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. EXCEPTION: IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 604.9, FLUSH CONTROLS SHALL BE PERMITTED TO BE LOCATED ON EITHER SIDE OF THE WATER CLOSET.

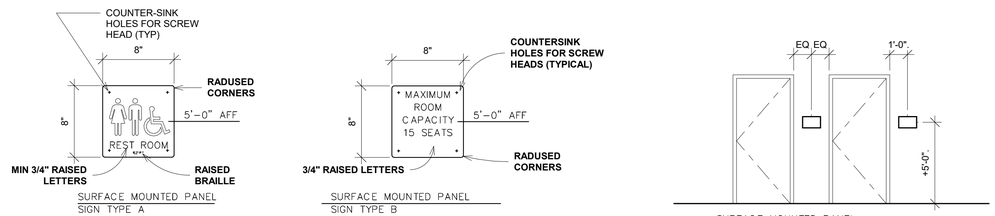
3. TOILET PAPER DISPENSER.
604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 309.4 AND SHALL BE 7 INCHES (180 mm) MINIMUM AND 9 INCHES (230 mm) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES (380 mm) MINIMUM AND 48 INCHES (1220 mm) MAXIMUM ABOVE THE FLOOR, AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENCERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.

NOTE: PER ICC A117 SECTION 604.5
EXCEPTION 2: IN DETENTION OR CORRECTION FACILITIES, GRAB BARS ARE NOT REQUIRED TO BE INSTALLED IN HOUSING OR HOLDING CELLS OR ROOMS THAT ARE SPECIFICALLY DESIGNED WITHOUT PROTRUSIONS FOR PURPOSES OF SUICIDE PREVENTION. A1

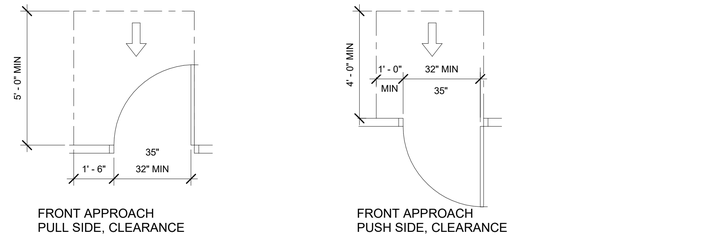
1 GENERAL- FIXTURE MOUNTING HEIGHTS
1/4" = 1'-0"

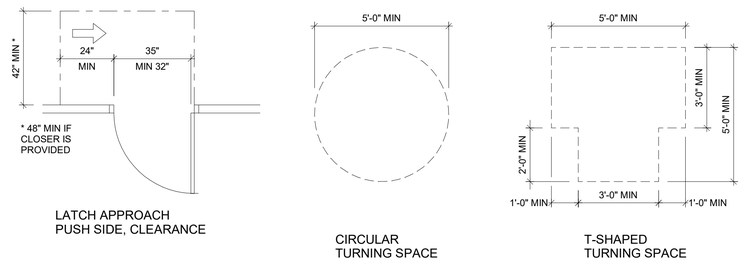


2 OPERABLE PARTS & REACH RANGES
3/8" = 1'-0"

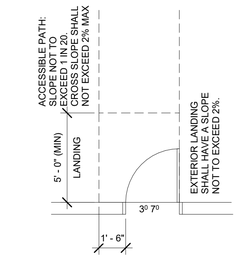


4 SIGNAGE - SIGNAGE TYPES
1 1/2" = 1'-0"

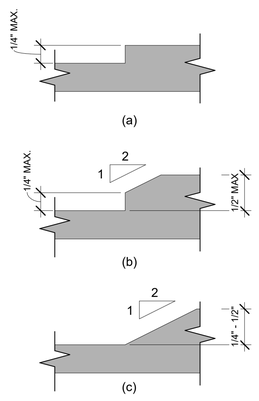




3 DOOR CLEARANCE REQUIREMENTS
3/8" = 1'-0"



5 ACCESSIBLE ENTRANCE
1/4" = 1'-0"



6 VERTICAL CHANGES IN LEVEL
12" = 1'-0"

LICENSED ARCHITECT AR-985708
R. COLBY RICKS STATE OF IDAHO
7.15.24

DATE 8/8/24 ADDENDUM 1

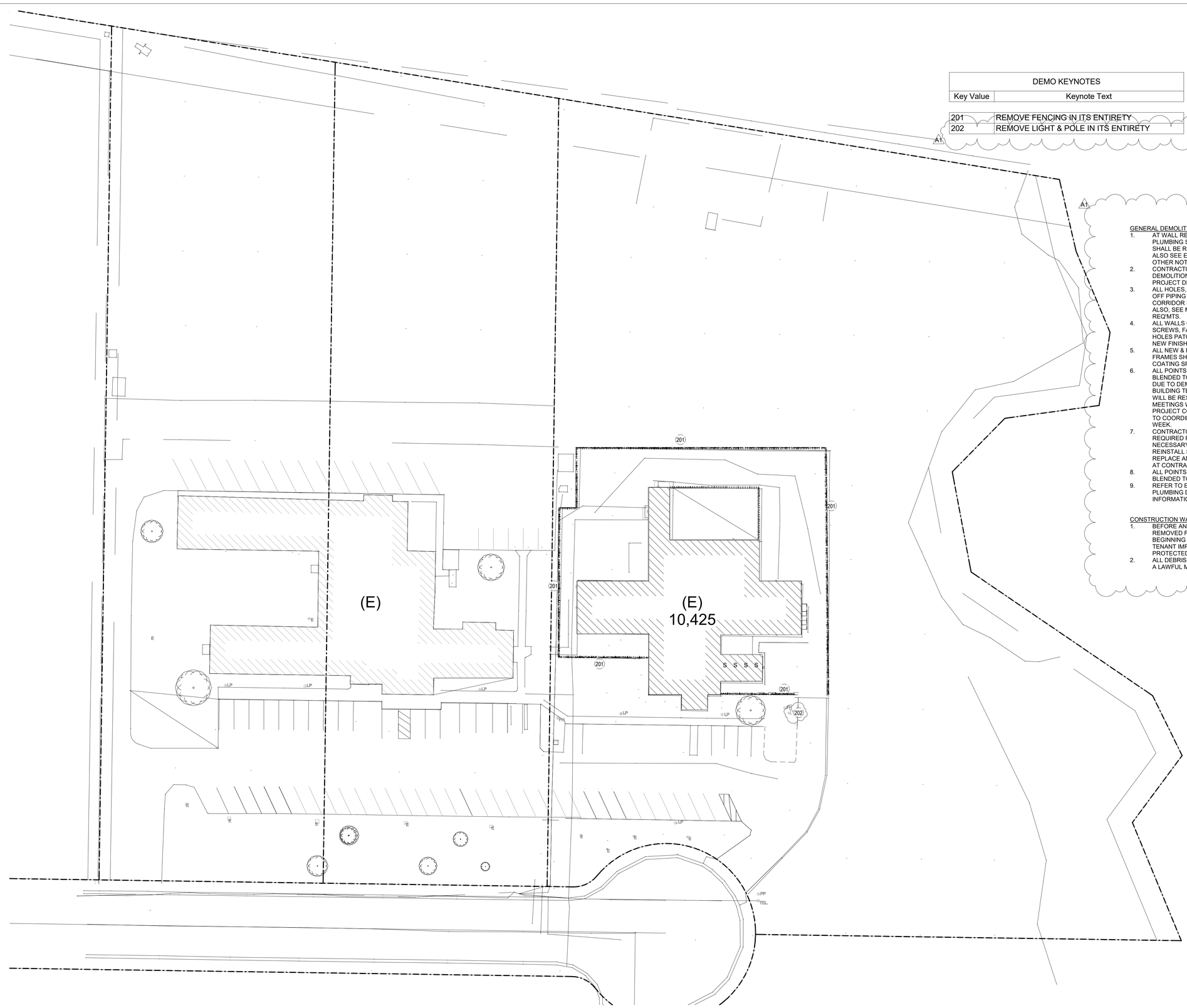
PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
CODE REQUIREMENTS

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

A1A-0.6

DEMO KEYNOTES	
Key Value	Keynote Text
201	REMOVE FENCING IN ITS ENTIRETY
202	REMOVE LIGHT & POLE IN ITS ENTIRETY



1 PH 1 PART A - DEMO SITE
1" = 30'-0"

GENERAL DEMOLITION NOTES:

1. AT WALL REMOVAL, ALL ELECTRICAL MECH & PLUMBING SHALL BE CONSIDEREDINCIDENTAL & SHALL BE REMOVED AS PART OF DEMOLITION. ALSO SEE ELEC., MECH., &PLUMBING PLANS FOR OTHER NOTES OR REQUIREMENTS.
2. CONTRACTOR SHALL NOTIFY THE COUNTY OF DEMOLITION WORK BEFORE PROCEEDING W/ PROJECT DEMOLITION.
3. ALL HOLES, EMPTY ELECTRICAL BOXES, & CUT OFF PIPING THROUGH EXISTING FIRE WALLS & CORRIDOR SHALL BE FILLED & FIRE SEALED. ALSO, SEE MECH. DRAWINGS FOR ADDITIONAL REQ'MTS.
4. ALL WALLS OF PROJECT SHALL HAVE ALL SCREWS, FASTENERS, & MISC. REMOVED AND HOLES PATCHED & REPAIRED AS REQUIRED FOR NEW FINISHES.
5. ALL NEW & EXIST'G METAL DOORS & WINDOW FRAMES SHALL BE PAINTED. SEE PAINT & COATING SPECIFICATIONS.
6. ALL POINTS OF WORK OF REMODEL SHALL BE BLENDED TO MATCH EXIST'G SURFACES & FINISH. DUE TO DEMOLITION WORK AFFECTING NEARBY BUILDING TENANTS SPACES, THE CONTRACTOR WILL BE RESPONSIBLE TO SCHEDULE WEEKLY MEETINGS WITH HIS SUBCONTRACTORS & PROJECT COORDINATOR BOB BEER T.F. COUNTY TO COORDINATE WORK TO BE SCHEDULE THAT WEEK.
7. CONTRACTOR WILL BE RESPONSIBLE FOR ANY REQUIRED REMOVAL OF CEILING, GRID, ETC. NECESSARY TO ACCESS WORK AREAS AND REINSTALL SUCH REMOVAL. CONTRACTOR SHALL REPLACE ANY DAMAMGED OR SOILED MATERIALS AT CONTRACTORS OWN EXPENSE.
8. ALL POINTS OF WORK OF REMODEL SHALL BE BLENDED TO MATCH EXIST'G SURFACES & FINISH.
9. REFER TO ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMO INFORMATION

CONSTRUCTION WASTE:

1. BEFORE ANY CONSTRUCTION WASTE IS REMOVED FROM THE PROJECT ALL ROUTES BEGINNING FROM THE STAGING AREA TO THE TENANT IMPROVEMENT AREA SHALL BE PROTECTED IN PLACE.
2. ALL DEBRIS MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.

LICENSED ARCHITECT
AR-985708
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STATE OF IDAHO
7.15.24

DATE	
8/8/24	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A DEMO SITE PLAN

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
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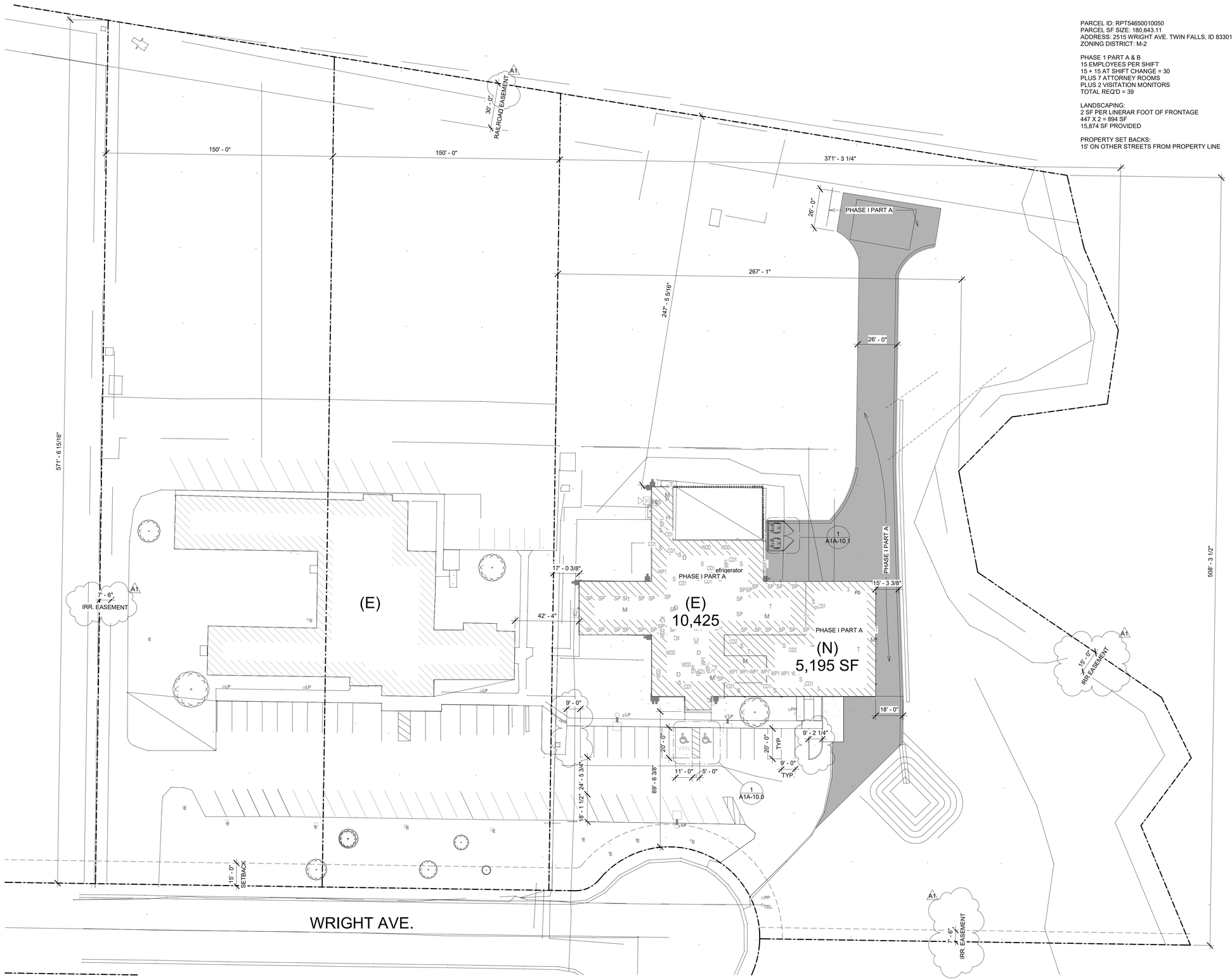
A1A-1.0

PARCEL ID: RPT54650010050
PARCEL SF SIZE: 180,643.11
ADDRESS: 2515 WRIGHT AVE. TWIN FALLS, ID 83301
ZONING DISTRICT: M-2

PHASE 1 PART A & B
15 EMPLOYEES PER SHIFT
15 + 15 AT SHIFT CHANGE = 30
PLUS 7 ATTORNEY ROOMS
PLUS 2 VISITATION MONITORS
TOTAL REQ'D = 39

LANDSCAPING:
2 SF PER LINERAR FOOT OF FRONTAGE
447 X 2 = 894 SF
15,874 SF PROVIDED

PROPERTY SET BACKS:
15' ON OTHER STREETS FROM PROPERTY LINE



1 PH 1 PART A - REMODEL SITE
1" = 30'-0"

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AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

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PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave. Twin Falls, ID 83301
PH 1 PART A REMODEL SITE PLAN

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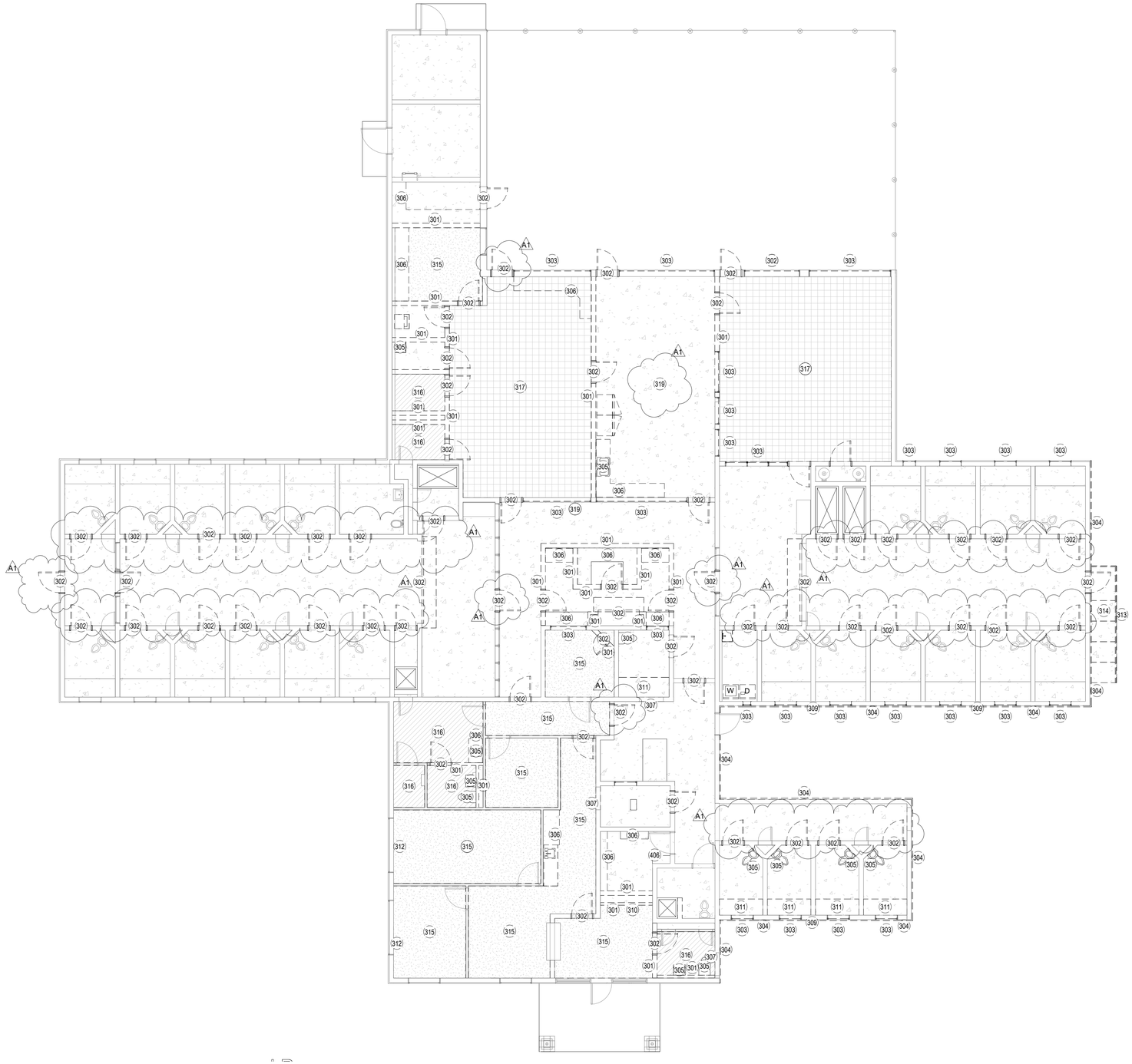
A1A-1.1



1 PH 1 PART A DEMO FLOOR PLAN
1/8" = 1'-0"

DEMO KEYNOTES	
Key Value	Keynote Text
301	REMOVE WALL IN ITS ENTIRETY AS SHOWN BY DASHED LINES
302	REMOVE DOOR SYSTEM IN ITS ENTIRETY
303	REMOVE WINDOW SYSTEM IN ITS ENTIRETY
304	REMOVE STUCCO SYSTEM IN ITS ENTIRETY
305	REMOVE PLUMBING FIXTURE
306	REMOVE CASEWORK IN ITS ENTIRETY
307	REMOVE WALL AS REQUIRED FOR NEW DOOR, RELOCATE ANYTHING ON WALL AS REQUIRED, MODIFY BASE AS REQUIRED
309	REMOVE DOWNSPOUT AS REQUIRED TO DRAIN ONTO NEW ROOF
310	REMOVE LOCKERS
311	REMOVE CONCRETE BENCH IN ITS ENTIRETY
312	REMOVE WOOD PANELING IN ITS ENTIRETY
313	REMOVE RAILING IN ITS ENTIRETY
314	REMOVE STAIR IN ITS ENTIRETY
315	REMOVE CARPET IN ITS ENTIRETY
316	REMOVE SHEET VINYL IN ITS ENTIRETY
317	REMOVE VCT IN ITS ENTIRETY
319	REMOVE EPOXY IN ITS ENTIRETY
406	REMOVE HATCH IN ITS ENTIRETY

GENERAL DEMOLITION NOTES:

1. AT WALL REMOVAL, ALL ELECTRICAL MECH & PLUMBING SHALL BE CONSIDEREDINCIDENTAL & SHALL BE REMOVED AS PART OF DEMOLITION. ALSO SEE ELEC., MECH., &PLUMBING PLANS FOR OTHER NOTES OR REQUIREMENTS.
2. CONTRACTOR SHALL NOTIFY THE COUNTY OF DEMOLITION WORK BEFORE PROCEEDING W/ PROJECT DEMOLITION.
3. ALL HOLES, EMPTY ELECTRICAL BOXES, & CUT OFF PIPING THROUGH EXISTING FIRE WALLS & CORRIDOR SHALL BE FILLED & FIRE SEALED. ALSO, SEE MECH. DRAWINGS FOR ADDITIONAL REQ'MTS.
4. ALL WALLS OF PROJECT SHALL HAVE ALL SCREWS, FASTENERS, & MISC. REMOVED AND HOLES PATCHED & REPAIRED AS REQUIRED FOR NEW FINISHES.
5. ALL NEW & EXIST'G METAL DOORS & WINDOW FRAMES SHALL BE PAINTED. SEE PAINT & COATING SPECIFICATIONS.
6. ALL POINTS OF WORK OF REMODEL SHALL BE BLENDED TO MATCH EXIST'G SURFACES & FINISH. DUE TO DEMOLITION WORK AFFECTING NEARBY BUILDING TENANTS SPACES, THE CONTRACTOR WILL BE RESPONSIBLE TO SCHEDULE WEEKLY MEETINGS WITH HIS SUBCONTRACTORS & PROJECT COORDINATOR BOB BEER T.F. COUNTY TO COORDINATE WORK TO BE SCHEDULE THAT WEEK.
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9. REFER TO ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMO INFORMATION

CONSTRUCTION WASTE:

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2. ALL DEBRIS MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.

LICENSED ARCHITECT
AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

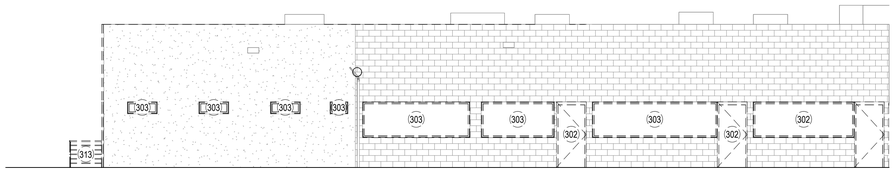
DATE
8/8/24 ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A DEMO FLOOR PLAN

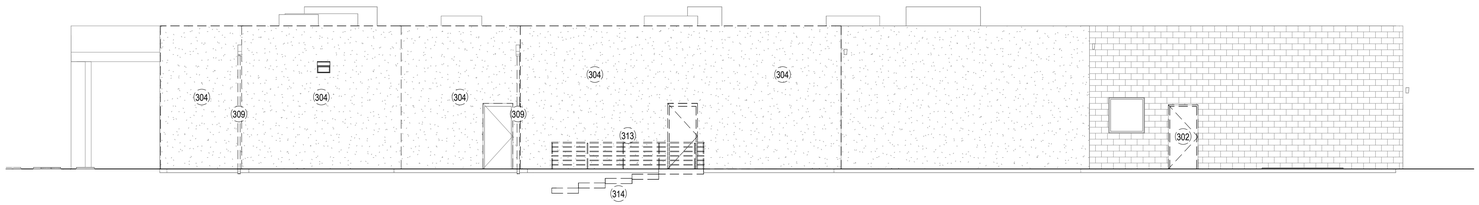
Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

A1A-1.2



1 PH 1 PART A DEMO NORTH
1/8" = 1'-0"



2 PH 1 PART A DEMO EAST 3
1/8" = 1'-0"

DEMO KEYNOTES	
Key Value	Keynote Text

302	REMOVE DOOR SYSTEM IN ITS ENTIRETY
303	REMOVE WINDOW SYSTEM IN ITS ENTIRETY
304	REMOVE STUCCO SYSTEM IN ITS ENTIRETY
309	REMOVE DOWNSPOUT AS REQUIRED TO DRAIN ONTO NEW ROOF
313	REMOVE RAILING IN ITS ENTIRETY
314	REMOVE STAIR IN ITS ENTIRETY

A1

GENERAL DEMOLITION NOTES:

1. AT WALL REMOVAL, ALL ELECTRICAL MECH & PLUMBING SHALL BE CONSIDEREDINCIDENTAL & SHALL BE REMOVED AS PART OF DEMOLITION. ALSO SEE ELEC., MECH., &PLUMBING PLANS FOR OTHER NOTES OR REQUIREMENTS.
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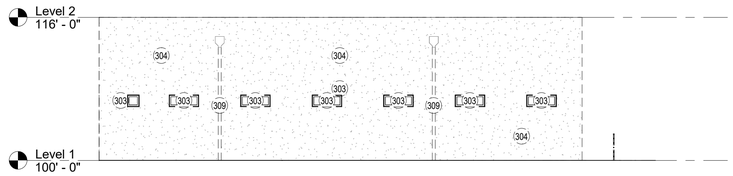
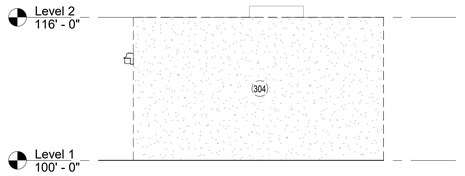
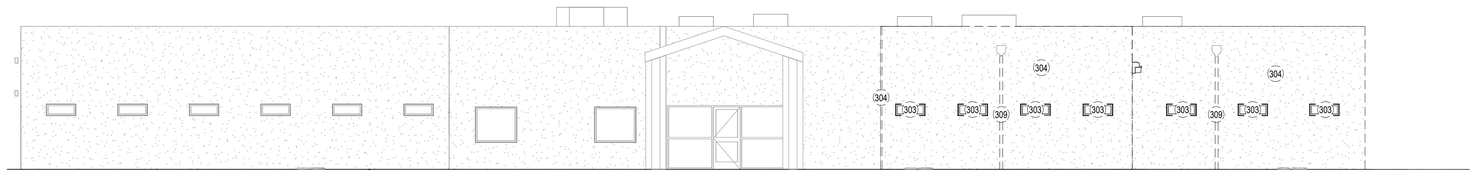


3 PH 1 PART A DEMO SOUTH 2
1/8" = 1'-0"



4 PH 1 PART A DEMO NORTH 2
1/8" = 1'-0"



5 PH 1 PART A DEMO SOUTH 3
1/8" = 1'-0"

LICENSED ARCHITECT
AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

DATE	
8/8/24	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A DEMO ELEVATIONS

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

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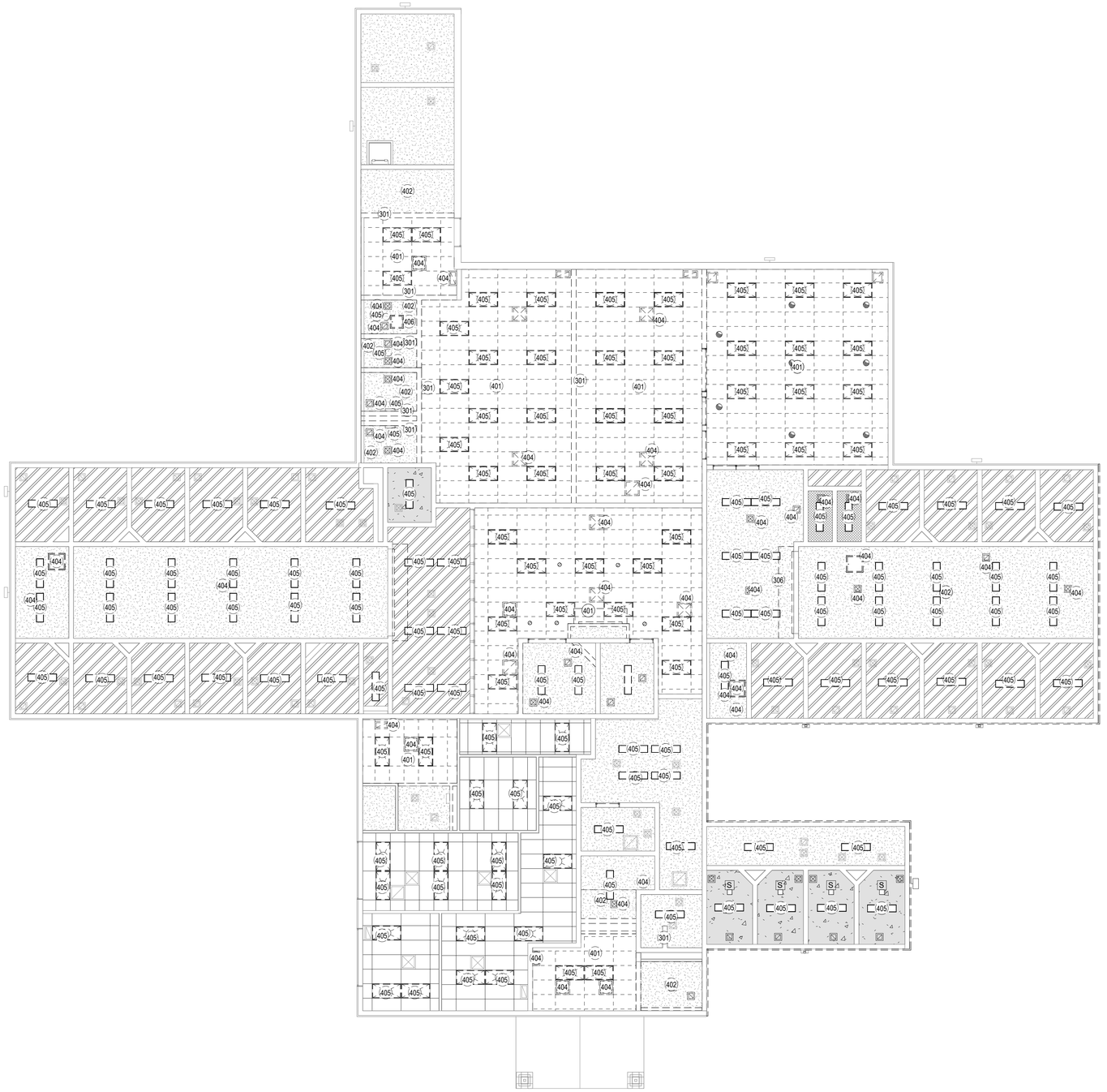
A1A-1.3



1 PH 1 PART A DEMO RCP
1/8" = 1'-0"

DEMO KEYNOTES	
Key Value	Keynote Text
301	REMOVE WALL IN ITS ENTIRETY AS SHOWN BY DASHED LINES
306	REMOVE CASEWORK IN ITS ENTIRETY
401	REMOVE 2X4 ACT GRID IN ITS ENTIRETY
402	REMOVE GYP BD CEILING
404	REMOVE MECHANICAL FIXTURE - REFER TO MECHANICAL DRAWINGS
405	REMOVE LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
406	REMOVE HATCH IN ITS ENTIRETY

A1

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LICENSED ARCHITECT AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

DATE	
8/8/24	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A DEMO CEILING PLAN

Laughlin Ricks Architecture
architecture/planning
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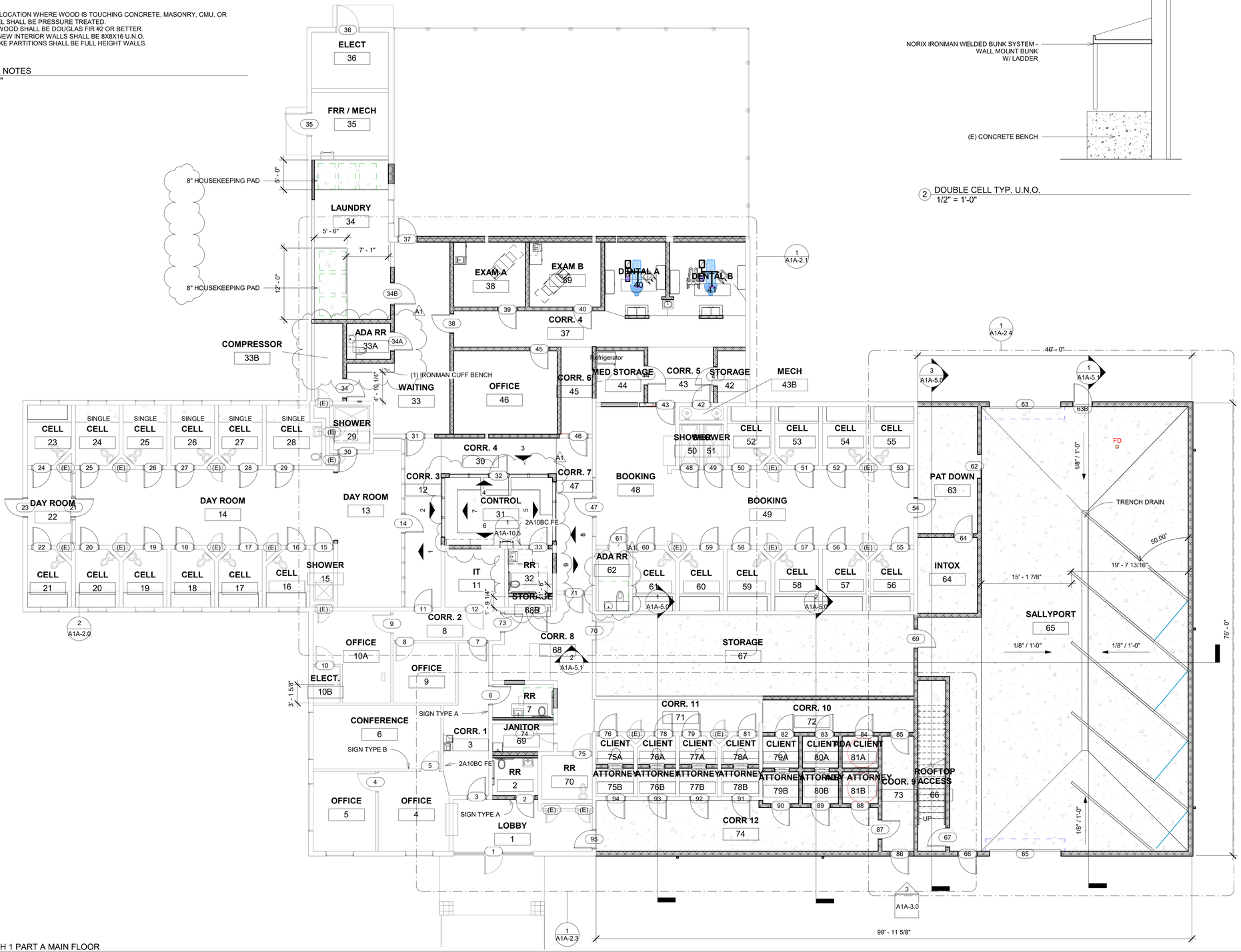
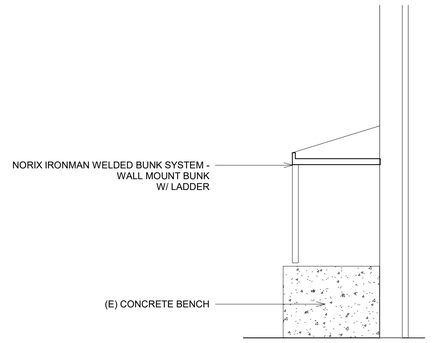
1. ANY LOCATION WHERE WOOD IS TOUCHING CONCRETE, MASONRY, CMU, OR STEEL SHALL BE PRESSURE TREATED.
2. ALL WOOD SHALL BE DOUGLAS FIR #2 OR BETTER.
3. ALL NEW INTERIOR WALLS SHALL BE 8X8X16 U.N.O.
4. SMOKE PARTITIONS SHALL BE FULL HEIGHT WALLS.

GENERAL NOTES
1/4" = 1'-0"



1 PH 1 PART A MAIN FLOOR
1/8" = 1'-0"



2 DOUBLE CELL TYP. U.N.O.
1/2" = 1'-0"

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PH 1 PART A FLOOR PLAN

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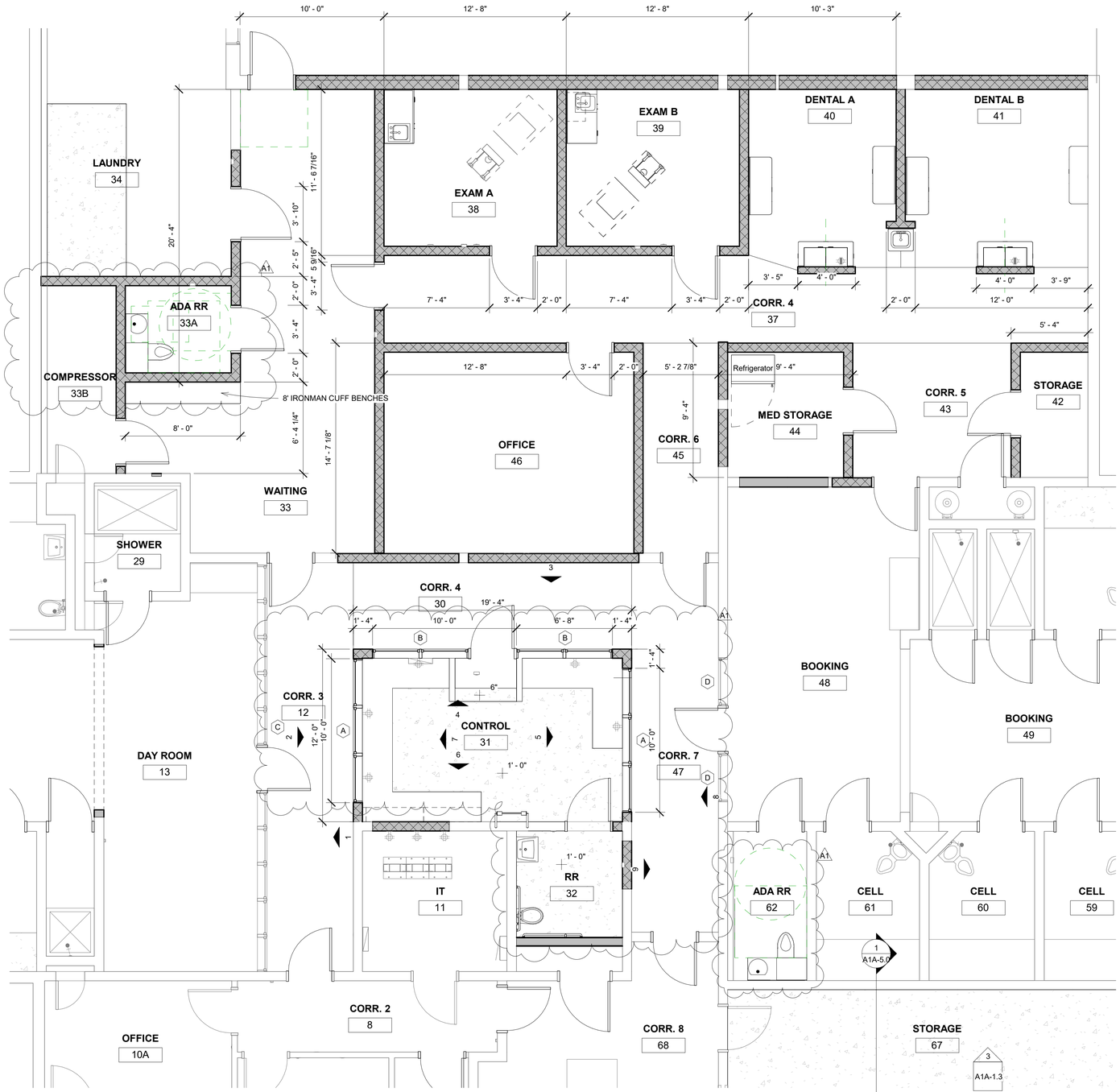
A1A-2.0



1 PH 1 PART A ENLARGED FLOOR - MEDICAL & CONTROL
1/4" = 1'-0"

7.15.24

DATE
8/8/24 ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
ENLARGED FLOOR PLANS

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architecture/planning
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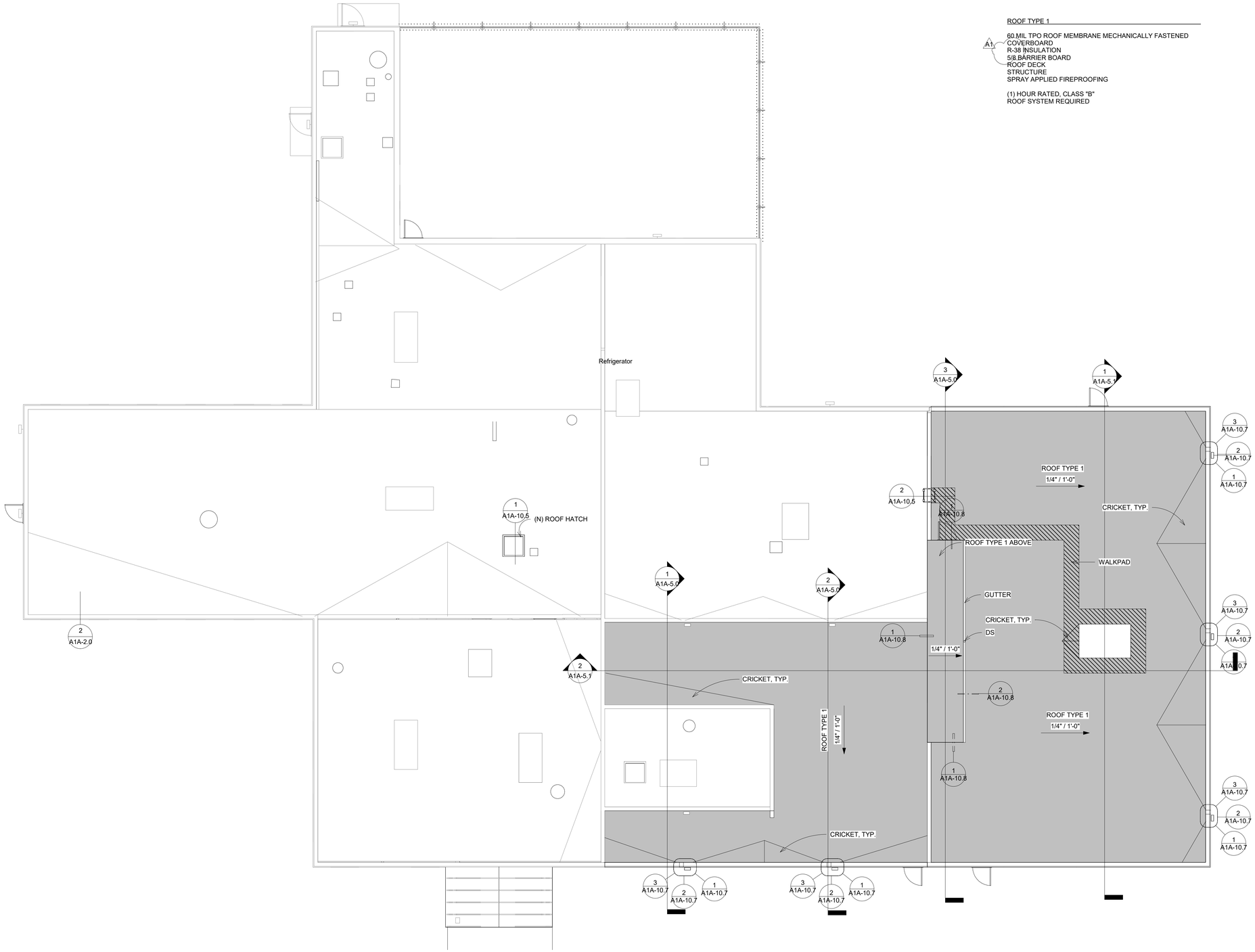
A1A-2.1

ROOF TYPE 1

A1 60 MIL TPO ROOF MEMBRANE MECHANICALLY FASTENED
COVERBOARD
R-38 INSULATION
5/8 BARRIER BOARD
ROOF DECK
STRUCTURE
SPRAY APPLIED FIREPROOFING

(1) HOUR RATED, CLASS "B"
ROOF SYSTEM REQUIRED



1 PH 1 PART A ROOF PLAN
1/8" = 1'-0"

LICENSED
ARCHITECT
AR-985708
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PH 1 PART A ROOF PLAN

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architecture/planning
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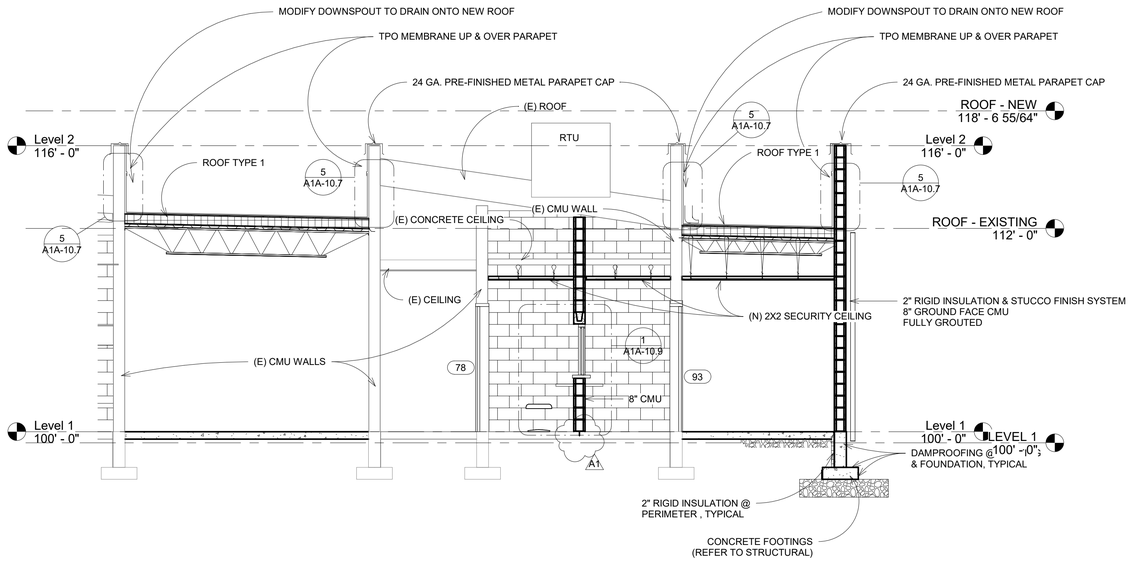
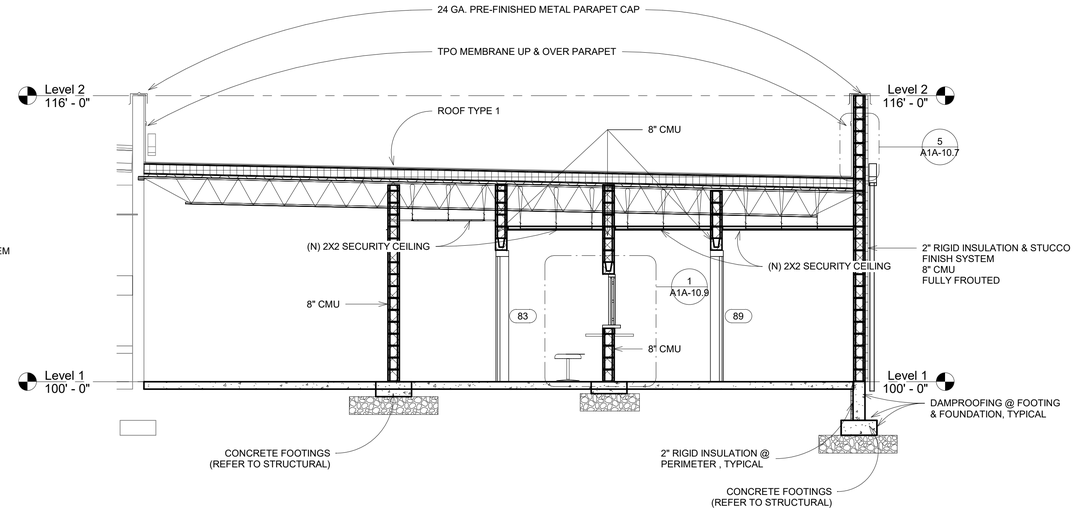
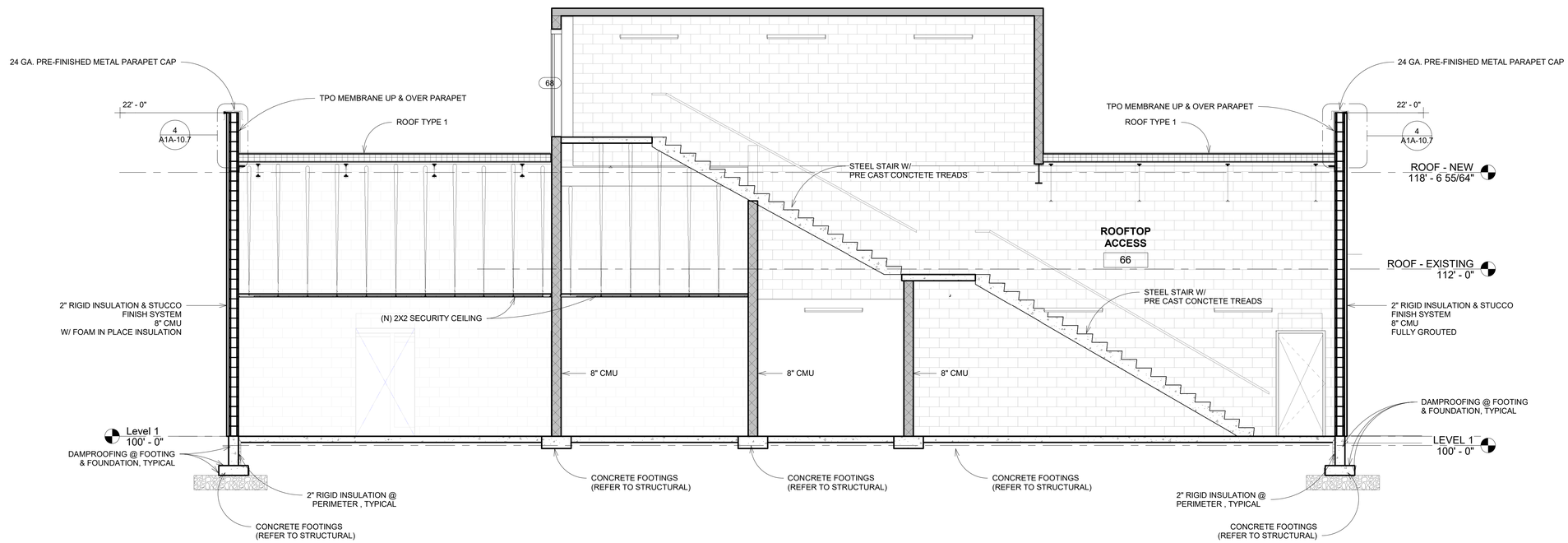
A1A-4.0



1 PH 1 PART A SECTION 1
1/4" = 1'-0"



2 PH 1 PART A SECTION 2
1/4" = 1'-0"



3 PH 1 PART A SECTION 3
1/4" = 1'-0"

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AR-985708
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PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A BUILDING SECTIONS

Laughlin Ricks Architecture
architecture/planning
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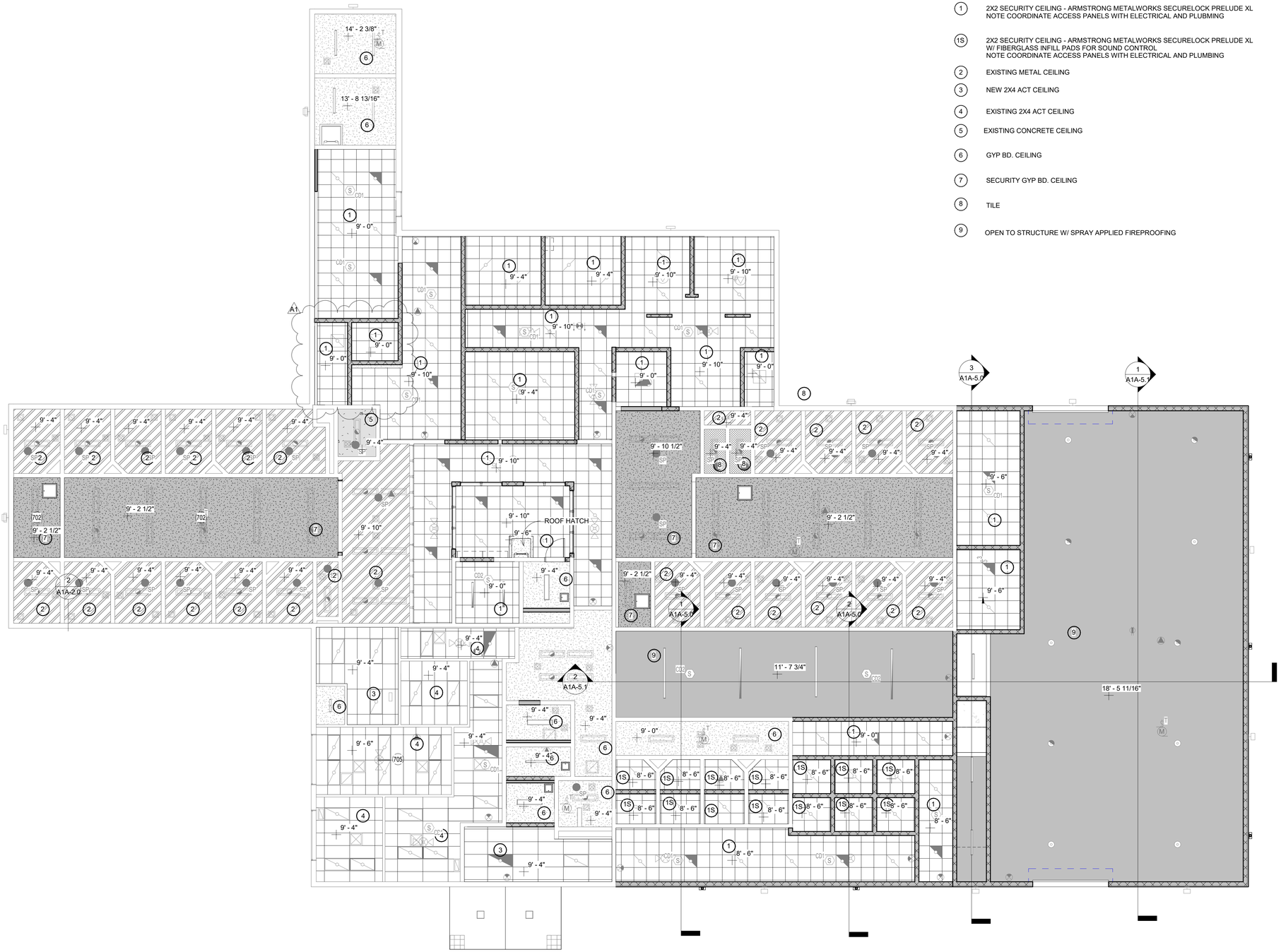
CEILING KEY

1	2X2 SECURITY CEILING - ARMSTRONG METALWORKS SECURELOCK PRELUDE XL NOTE COORDINATE ACCESS PANELS WITH ELECTRICAL AND PLUBMING
1S	2X2 SECURITY CEILING - ARMSTRONG METALWORKS SECURELOCK PRELUDE XL W/ FIBERGLASS INFILL PADS FOR SOUND CONTROL NOTE COORDINATE ACCESS PANELS WITH ELECTRICAL AND PLUMBING
2	EXISTING METAL CEILING
3	NEW 2X4 ACT CEILING
4	EXISTING 2X4 ACT CEILING
5	EXISTING CONCRETE CEILING
6	GYP BD. CEILING
7	SECURITY GYP BD. CEILING
8	TILE
9	OPEN TO STRUCTURE W/ SPRAY APPLIED FIREPROOFING



1 PH 1 PART A REMODEL RCP
1/8" = 1'-0"

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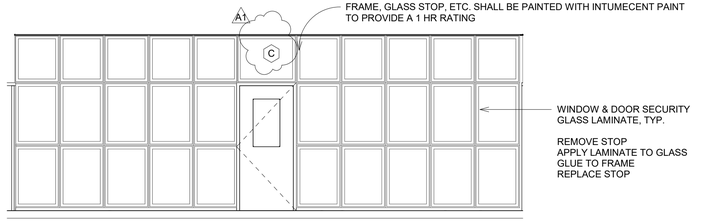
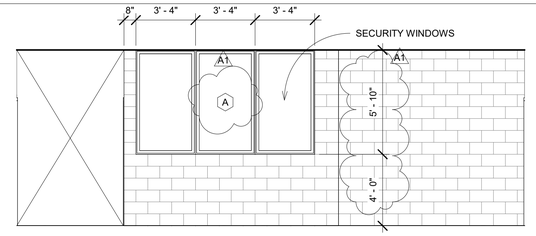
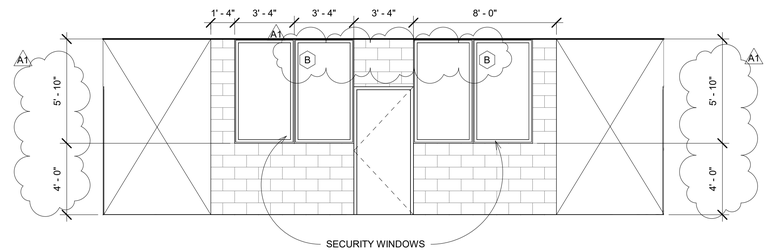
A1A-7.0



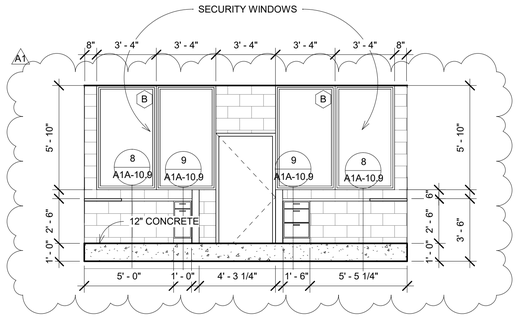
1 CORR. 3 W
1/4" = 1'-0"



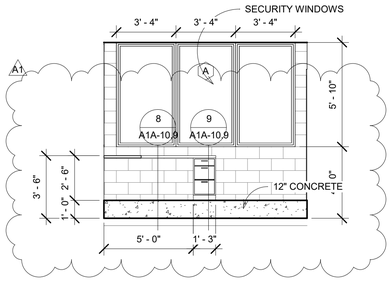
2 CORR. 3 E
1/4" = 1'-0"



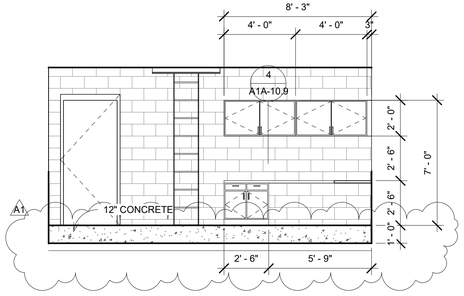
3 CORR. 4 S.
1/4" = 1'-0"



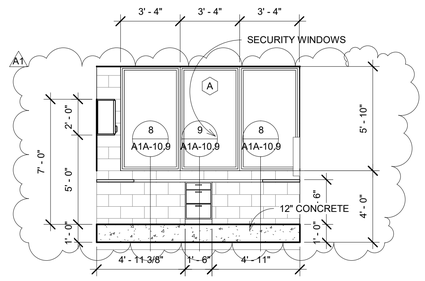
4 CONTROL N
1/4" = 1'-0"



5 CONTROL E
1/4" = 1'-0"

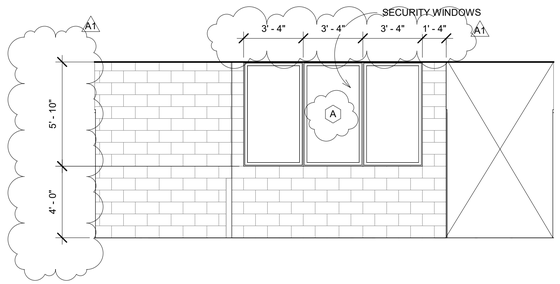


6 CONTROL S.
1/4" = 1'-0"

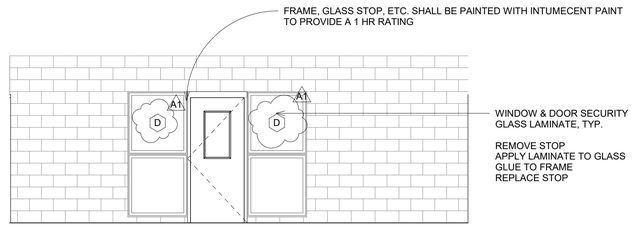


7 CONTROL W
1/4" = 1'-0"

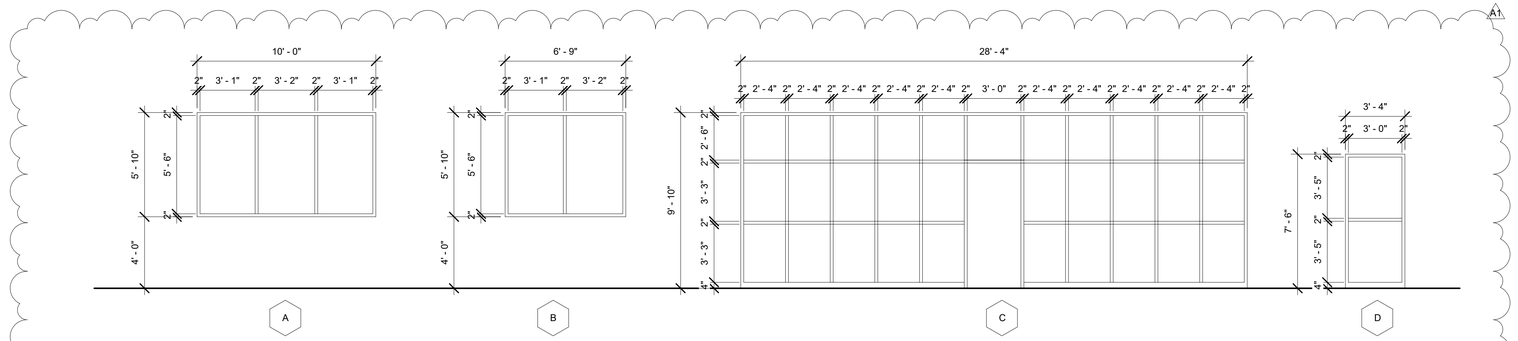
NOTE: RAISED 12" CONCRETE FLOOR CONTINUES INTO ROOM: RR 34



8 CORR. 7 W
1/4" = 1'-0"



9 CORR. 7 E.
1/4" = 1'-0"



WINDOW TYPES
1/4" = 1'-0"

LICENSED ARCHITECT
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2515 Wright Ave, Twin Falls, ID 83301
INTERIOR ELEVATIONS

Laughlin Ricks Architecture
architecture/planning
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(208) 736-8050

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A1A-8.0

PH 1 PART A - Room Finish Schedule

Number	Name	Base Finish	Floor Finish	Wall								Ceiling		Remarks
				Materials				Finishes						
				North	East	South	West	North	East	South	West	Material	Finish	
1	LOBBY		POLISH (E) CONCRETE	(E) CMU / (N) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	NEW 2X4 ACT	FF	
2	RR	VARIES	POLISH (E) CONCRETE	(N) GYP BD	(E) CMU	(N)CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	GYP BD	EPOXY PT	4" RUBBER BASE AT GYP BD
3	CORR. 1	4" RUBBER BASE	(N) CARPET TILE	(E) GYP BD	(E) CMU	(E) CMU	(E) GYP BD	PT	PT	PT	PT	EXISTING 2X4 ACT	FF	
4	OFFICE	4" RUBBER BASE	(N) CARPET TILE	(E) GYP BD	(E) CMU	(E) CMU	(E) GYP BD	PT	PT	PT	PT	EXISTING 2X4 ACT	FF	
5	OFFICE	4" RUBBER BASE	(N) CARPET TILE	(E) GYP BD	(E) GYP BD	(E) CMU	(E) CMU	PT	PT	PT	PT	EXISTING 2X4 ACT	FF	
6	CONFERENCE	4" RUBBER BASE	(N) CARPET TILE	(E) GYP BD	(E) GYP BD	(E) GYP BD	(E) GYP BD	PT	PT	PT	PT	EXISTING 2X4 ACT	FF	
7	RR	VARIES	BURNISH (E) CONC.	(E) CMU / (N) CMU	(N) CMU, (E) CMU	GYP BD	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	GYP BD	EPOXY PT	4" RUBBER BASE AT GYP BD
8	CORR. 2	4" RUBBER BASE	(N) CARPET TILE	(E) CMU	(E) GYP BD	(E) GYP BD	(E) GYP BD	PT	PT	PT	PT	EXISTING 2X4 ACT	FF	
9	OFFICE	4" RUBBER BASE	(N) CARPET TILE	(E) GYP BD	(E) GYP BD	(E) GYP BD	(E) GYP BD	PT	PT	PT	PT	EXISTING 2X4 ACT	FF	
10A	OFFICE	4" RUBBER BASE	(N) CARPET TILE	(E) CMU	(E) GYP BD	(E) GYP BD	(E) CMU	PT	PT	PT	PT	NEW 2X4 ACT	FF	
10B	ELECT.	4" RUBBER BASE	(E) BURNISH CONC.	(E) GYP BD	(E) GYP BD	(E) GYP BD	(E) CMU	PT	PT	PT	PT	(E) GYP BD	PT	
11	IT		POLISH (E) CONCRETE	(E) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
12	CORR. 3		(E) BURNISH CONC.	(E) CMU	(E) CMU/ (N) CMU / (N) SECURITY WINDOWS	(E) CMU	(E) TEMPERED GLASS WALL	PT	PT	PT	SECURITY GLASS LAMINATE	2X2 SECERITY CEILING	FF	SECURITY GLASS LAMINATE PER MANUFACTURER / INTUMESCENT PAINT FRAMES
13	DAY ROOM		(E) BURNISH CONC.	(E) CMU	(E) TEMPERED GLASS WALL	(E) CMU	(E) CMU	EPOXY PT	SECURITY GLASS LAMINATE	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	SECURITY GLASS LAMINATE PER MANUFACTURER / INTUMESCENT PAINT FRAMES
14	DAY ROOM		(E) BURNISH CONC.	(E) CMU	--	(E) CMU	(E) TEMPERED GLASS WALL	EPOXY PT	--	EPOXY PT	SECURITY GLASS LAMINATE	SECERITY GYP BD CEILING	EPOXY PT	SECURITY GLASS LAMINATE PER MANUFACTURER / INTUMESCENT PAINT FRAMES
15	SHOWER		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
16	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
17	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
18	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
19	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
20	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
21	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
22	DAY ROOM		(E) BURNISH CONC.	(E) CMU	(E) TEMPERED GLASS WALL	(E) CMU	(E) CMU	EPOXY PT	SECURITY GLASS LAMINATE	EPOXY PT	EPOXY PT	SECERITY GYP BD CEILING	EPOXY PT	SECURITY GLASS LAMINATE PER MANUFACTURER / INTUMESCENT PAINT FRAMES
23	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
24	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
25	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
26	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
27	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
28	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
29	SHOWER		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING CONCERTE CEILING	EPOXY PT	
30	CORR. 4		(E) BURNISH CONC.	(E) CMU / (N) CMU	--	(N) CMU / (N) SECURITY WINDOWS	--	PT	--	PT	--	2X2 SECERITY CEILING	FF	
31	CONTROL		(N) POLISHED CONC.	(N)CMU/ (N) SECURITY WINDOWS	(N) CMU / (N) SECURITY WINDOWS	(E) CMU/ (N) CMU	(N) CMU / (N) SECURITY WINDOWS	PT / FF	PT / FF	PT	PT / FF	2X2 SECERITY CEILING	FF	
32	RR		(N) POLISHED CONC.	(E) CMU	(E) CMU/ (N) CMU	GYP BD	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	GYP BD	EPOXY PT	4" RUBBER BASE AT GYP BD
33	WAITING		POLISH (E) CONCRETE	(N)CMU	(N) CMU	(E) CMU/ (N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
33A	ADA RR		POLISH (E) CONCRETE	(N) CMU	(N) CMU	(N)CMU	(E) GYP BD	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	2X2 SECERITY CEILING	FF	
33B	COMPRESSOR		SEALED CONC.											
34	LAUNDRY		POLISH (E) CONCRETE	(E) CMU	(E) CMU/ (N) CMU	(N) CMU	(E) GYP BD	PT	PT	PT	FRP	2X2 SECERITY CEILING	FF	
35	FRR / MECH		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	GYP BD	PT	
36	ELECT		(E) BURNISH CONC.	(N) CMU	(E) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	GYP BD	PT	
37	CORR. 4		POLISH (E) CONCRETE	(N) CMU	(E) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
38	EXAM A		POLISH (E) CONCRETE	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
39	EXAM B		POLISH (E) CONCRETE	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
40	DENTAL A		POLISH (E) CONCRETE	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
41	DENTAL B		POLISH (E) CONCRETE	(N) CMU	(E) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
42	STORAGE		POLISH (E) CONCRETE	(E) CMU	(E) CMU	(E) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
43	CORR. 5		POLISH (E) CONCRETE	--	(N) CMU	(E) CMU	(N) CMU	--	PT	PT	PT	2X2 SECERITY CEILING	FF	
43B	MECH		SEALED CONC.	(N) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	EXISTING METAL CEILING	(E)	
44	MED STORAGE		SEALED CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
45	CORR. 6		POLISH (E) CONCRETE	--	(N) CMU, (E) CMU	(E) CMU	(N) CMU	--	PT	PT	PT	2X2 SECERITY CEILING	FF	
46	OFFICE	4" RUBBER BASE	(N) CARPET TILE	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
47	CORR. 7		(E) BURNISH CONC.	(E) CMU / (N) CMU	(E) CMU / (E) TEMPERED GLASS	(E) CMU	(N) CMU / (N) BALLISTIC WINDOWS	PT	PT / SECURITY GLASS LAMINATE	PT	PT / FF	2X2 SECERITY CEILING	FF	
48	BOOKING		(E) BURNISH CONC.	(N) CMU / (E) CMU	(E) CMU	(E) CMU	/ (E) TEMPERED GLASS/(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT / SECURITY GLASS LAMINATE	SECERITY GYP BD CEILING	EPOXY PT	
49	BOOKING		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	--	EPOXY PT	EPOXY PT	EPOXY PT	--	SECERITY GYP BD CEILING	EPOXY PT	
50	SHOWER		(E) TILE	(E) CMU	(E) CMU	(E) CMU	(E) CMU	(E) TILE	(E) TILE	(E) TILE	(E) TILE	TILE	(E)	
51	SHOWER		(E) TILE	(E) CMU	(E) CMU	(E) CMU	(E) CMU	(E) TILE	(E) TILE	(E) TILE	(E) TILE	TILE	(E)	
52	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
53	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
54	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
55	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
56	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
57	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
58	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
59	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
60	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
61	CELL		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	EXISTING METAL CEILING	(E)	
62	ADA RR		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) GYP BD	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	SECERITY GYP BD CEILING	EPOXY PT	
63	PAT DOWN		BROOM FINSIH CONC.	(N) CMU	(N) CMU	(N) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	2X2 SECERITY CEILING	FF	
64	INTOX		BROOM FINSIH CONC.	(N) CMU	(N) CMU	(N) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	2X2 SECERITY CEILING	FF	
65	SALLYPORT		BROOM FINSIH CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	OPEN TO STRUCTURE	SPRAY APPLIED FIREPROOFING	
66	ROOFTOP ACCESS		BROOM FINSIH CONC./ PRECAST CONC. STAIR	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	OPEN TO STRUCTURE	SPRAY APPLIED FIREPROOFING	
67	STORAGE		(N) BURNISH CONC.	(E) CMU	(N) CMU	(N) CMU/ (E) CMU	(E) CMU	PT	PT	PT	PT	OPEN TO STRUCTURE	SPRAY APPLIED FIREPROOFING	
68	CORR. 8		(E) BURNISH CONC.	(E) CMU	(E) CMU	(N) CMU/ (E) CMU	(E) CMU	PT	PT	PT	PT	(E) GYP BD	PT	
68B	STORAGE		(E) BURNISH CONC.	(N) GYP BD	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	(E) GYP BD	PT	
69	JANITOR		(E) BURNISH CONC.	(E) CMU	(E) CMU	(N) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	(E) GYP BD	EPOXY PT	FRP TO 4' AT MOP SINK
70	RR		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	(E) CMU	EPOXY PT	EPOXY PT	EPOXY PT	EPOXY PT	(E) GYP BD	EPOXY PT	
71	CORR. 11		(E) BURNISH CONC.	(E) CMU	(E) CMU	(E) CMU	--	PT	PT	PT	--	(E) GYP BD	PT	
72	CORR. 10		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
73	COOR. 9		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
74	CORR 12		(N) BURNISH CONC.	(E) CMU / (N) CMU	(N) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING	FF	
75A	CLIENT		(E) BURNISH CONC.	(E) CMU	(E) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
75B	ATTORNEY		(E) BURNISH CONC.	(N) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
76A	CLIENT		(E) BURNISH CONC.	(E) CMU	(E) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
76B	ATTORNEY		(E) BURNISH CONC.	(N) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
77A	CLIENT		(E) BURNISH CONC.	(E) CMU	(E) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
77B	ATTORNEY		(E) BURNISH CONC.	(N) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
78A	CLIENT		(E) BURNISH CONC.	(E) CMU	(E) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
78B	ATTORNEY		(E) BURNISH CONC.	(N) CMU	(E) CMU	(E) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
79A	CLIENT		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
79B	ATTORNEY		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(E) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
80A	CLIENT		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
80B	ATTORNEY		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
81A	ADA CLIENT		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	
81B	ADA ATTORNEY		(N) BURNISH CONC.	(N) CMU	(N) CMU	(N) CMU	(N) CMU	PT	PT	PT	PT	2X2 SECERITY CEILING WITH SOUND CONTROL	FF	

LICENSED ARCHITECT AR-985708
R. COLBY RICKS STATE OF IDAHO
7.15.24

DATE 8/8/24 ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
FINISH SCHEDULE

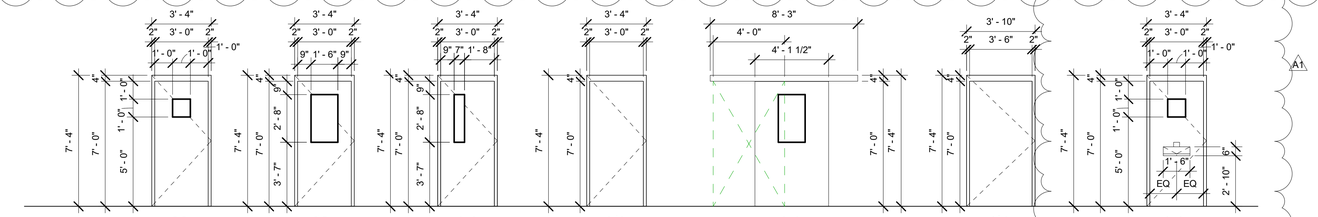
Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

A1A-9.0

PH 1 PART A - Door Schedule

DOOR	ROOM	Phase Created	EL	Level	DOOR						Accessories	Door Latch	FRAME			UL RATING	Access Control	Comments
					Width	Height	Thickness	SECURITY LEVEL	Material	Finish			Material	Finish	Security Level			
1	LOBBY	Existing	SFGL	Level 1	3' - 0"	7' - 0"	2"	(E)	(E) ALUMINUM STOREFRONT	FF	WEATHER-STRIP/ THRESHOLD / CLOSER / CONTINUOUS HINGES / PANIC HARDWARE	KEYED	(E) ALUMINUM	FF	(E)	--	Yes	NTERCOM AND ELECTIC STRIKE CONTROLLED BY CONTROL
2	RR	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	PRIVACY	STOREROOM	HM	PT	4			
3	CORR. 1	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER	STOREROOM	HM	PT	4		Yes	ELECTRIC STRIKE AND FOB
4	OFFICE	Existing	d	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	CLASSROOM	(E) HM	PT	(E)			
5	CONFERENCE	Existing	a	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	CLASSROOM	(E) HM	PT	(E)			
6	RR	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	PRIVACY	HM	PT	4			
7	CORR. 2	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER, HOILD OPEN	STOREROOM	HM	PT	4			
8	OFFICE	Existing	d	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	CLASSROOM	(E) HM	PT	(E)			
9	OFFICE	Existing	d	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	CLASSROOM	(E) HM	PT	(E)			
10	ELECT.	Existing	d	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	CLOSER	STOREROOM	(E) HM	PT	(E)			
11	CORR. 3	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4		Yes	
12	IT	Existing	d	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	CLOSER	STOREROOM	(E) HM	PT	(E)			
14	DAY ROOM	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3	20 MIN	Yes	
15	SHOWER	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
16	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
17	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
18	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
19	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
20	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
21	DAY ROOM	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
22	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
23	DAY ROOM	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	WEATHERSTRIP, THRESHOLD, DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
24	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
25	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
26	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
27	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
28	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
29	CELL	PHASE 1 PART A	g	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
30	SHOWER	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
31	WAITING	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4		Yes	
32	CONTROL	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	2	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	2		Yes	
33	RR	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	PRIVACY	HM	PT	4			
34	COMPRESSOR	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER	STOREROOM	HM	PT	4			
34A	ADA RR	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	PRIVACY	HM	PT	4			
34B	LAUNDRY	PHASE 1 PART A	f	Level 1	3' - 6"	7' - 0"	1 3/4"	4	HM	PT	HOLD OPEN, SMOKE SEALS, CLOSER	PASSAGE	HM	PT	4			
35	FRR / MECH	Existing	f	Level 1	3' - 8"	7' - 0"	1 3/4"	(E)	(E) HM	PT	WEATHERSTRIP, THRESHOLD, CLOSER	STOREROOM	(E) HM	PT	(E)			
36	ELECT	Existing	f	Level 1	3' - 8"	7' - 0"	1 3/4"	(E)	(E) HM	PT	WEATHERSTRIP, THRESHOLD, CLOSER	STOREROOM	(E) HM	PT	(E)		No	
37	WAITING	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	4	(E) HM	PT	WEATHERSTRIP, THRESHOLD, DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	4		Yes	
38	CORR. 4	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4		Yes	
39	EXAM A	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	PASSAGE	HM	PT	4			
40	EXAM B	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	PASSAGE	HM	PT	4			
41	STORAGE	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER	STOREROOM	HM	PT	4			
42	MECH	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	(E) HM	PT	CLOSER	STOREROOM	(E) HM	PT	4	20 MIN	No	
43	CORR. 5	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3	20 MIN	Yes	
44	MED STORAGE	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER	STOREROOM	HM	PT	4			
45	OFFICE	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER	STOREROOM	HM	PT	4		No	
46	CORR. 7	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4		Yes	
47	BOOKING	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3	20 MIN	Yes	
48	SHOWER	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
49	SHOWER	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
50	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
51	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
52	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
53	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
54	BOOKING	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	3	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	3	20 MIN	Yes	
55	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
56	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
57	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
58	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
59	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
60	CELL	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	(E) HM	PT	3		Yes	
61	ADA RR	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT		PRIVACY	HM	PT	4		No	
62	PAT DOWN	PHASE 1 PART A	e	Level 1	4' - 0"	7' - 4"	2"	3	HM	PT	DOOR POSITION SWITCH	AIRTEQ 9500	HM	PT	3		Yes	
63	SALLYPORT	PHASE 1 PART A	-	Level 1	12' - 0"	12' - 0"	3"		HM	PT	PER MANUFACTURER	PER MANUFACTURER	HM	PT			Yes	CONTROLLED BY CONTROL SECERITY GARAGE DOOR
63B	SALLYPORT	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	(E) HM	PT	WEATHERSTRIP, THRESHOLD, DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4			
64	PAT DOWN	PHASE 1 PART A	b	Level 1	3' - 0"	7' - 0"	1 3/4"	3	HM	PT	DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	3		Yes	
65	SALLYPORT	PHASE 1 PART A	-	Level 1	12' - 0"	12' - 0"	3"		HM	PT	PER MANUFACTURER	PER MANUFACTURER	HM	PT			Yes	CONTROLLED BY CONTROL SECERITY GARAGE DOOR
66	SALLYPORT	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	WEATHERSTRIP, THRESHOLD, DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4		Yes	
67	ROOFTOP ACCESS	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	STOREROOM	HM	PT	4			
68		PHASE 1 PART A	d	Level 2	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	CLOSER	STOREROOM	HM	PT	4			
69	STORAGE	PHASE 1 PART A	d	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT		STOREROOM	HM	PT	4			
70	STORAGE	Existing	a	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	STOREROOM	(E) HM	PT	(E)			
71	CORR. 8	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	4		Yes	
72	STORAGE	PHASE 1 PART A	d	Level 1	3' - 6"	7' - 0"	1 3/4"	4	HM	PT	-	STOREROOM	HM	PT	4			
73	CORR. 8	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	4	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	(E) HM	PT	4		Yes	
74	CORR. 8	Existing	a	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	PASSAGE	(E) HM	PT	(E)			
75	RR	Existing	d	Level 1	3' - 0"	7' - 0"	1 3/4"	(E)	(E) HM	PT	-	PRIVACY	(E) HM	PT	(E)			
76	CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	(E) HM	PT	3		Yes	
78	CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	(E) HM	PT	3		Yes	
79	CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	(E) HM	PT	3		Yes	
81	CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	(E) HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	(E) HM	PT	3		Yes	
82	CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	3		Yes	
83	CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	3		Yes	
84	ADA CLIENT	PHASE 1 PART A	a	Level 1	3' - 0"	7' - 0"	1 3/4"	3	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	3		Yes	
85	CORR. 10	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	3	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	3		Yes	
86	COOR. 9	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	WEATHERSTRIP, THRESHOLD, DOOR POSITION SWITCH, BUTT HINGE	AIRTEQ 9500	HM	PT	4		Yes	
87	CORR 12	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	4		Yes	
88	ADA ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4			
89	ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4		No	
90	ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4		No	
91	ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4		No	
92	ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4		No	
93	ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4		No	
94	ATTORNEY	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	-	CLASSROOM	HM	PT	4		No	
95	CORR 12	PHASE 1 PART A	c	Level 1	3' - 0"	7' - 0"	1 3/4"	4	HM	PT	DOOR POSITION SWITCH, BUTT HINGE & CLOSER	AIRTEQ 9500	HM	PT	4		Yes	



DOOR TYPES
1/4" = 1'-0"

ALL DOOR GLAZING SHALL BE 9/16" GLASS CLAD POLYCARBONATE 3 PLY SECURITY GRADE 4 A1

DOOR NOTES
1. ALL EXISTING DOORS AND FRAMES SHALL BE REPAINTED
2. ALL PRIVACY LOCKS SHALL HAVE A KEY FROM THE OUTSIDE

LATCH NOTES

CLASSROOM: LEVER. DOOR CAN BE LOCKED FROM THE INSIDE. LEVER ALWAYS OPENS FROM THE INSIDE.

ENTRY: LEVER. KEY REQUIRED. DOOR CAN BE LOCKED FROM THE INSIDE. LEVER ALWAYS OPENS FROM THE INSIDE.

PASSAGE: LEVER. ALWAYS UNLOCKED. LEVER OPENS FROM EITHER SIDE.

PRIVACY: LEVER. DOOR CAN BE LOCKED FROM THE INSIDE. LEVER DEACTIVATES LOCK IN SINGLE MOTION.

STORAGE: LEVER. KEY REQUIRED. THE OUTSIDE LEVER IS ALWAYS LOCKED. LEVER ALWAYS OPENS FROM THE INSIDE.

A1

LICENSED ARCHITECT
AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

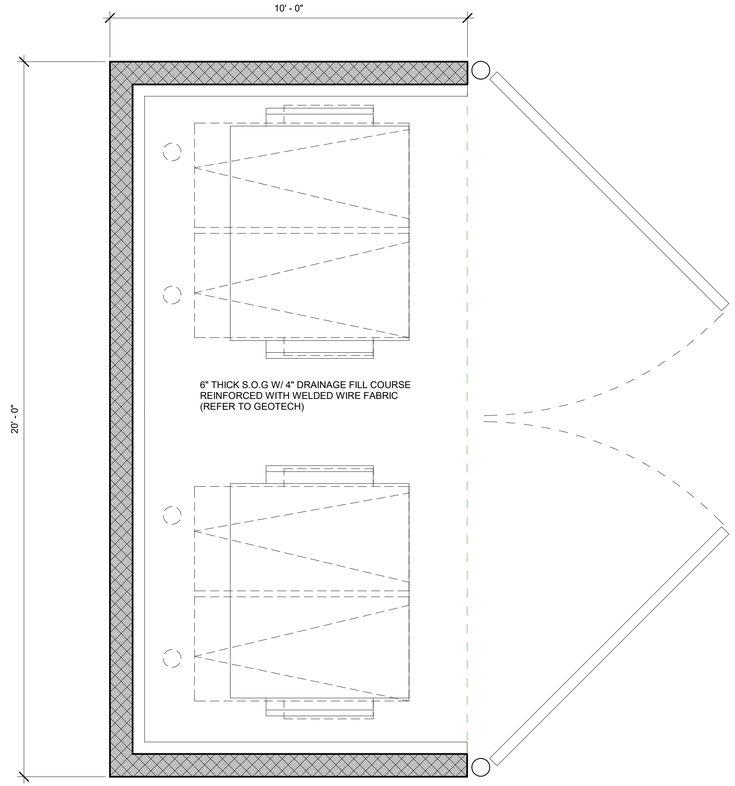
DATE
8/8/24 ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
DOOR SCHEDULE

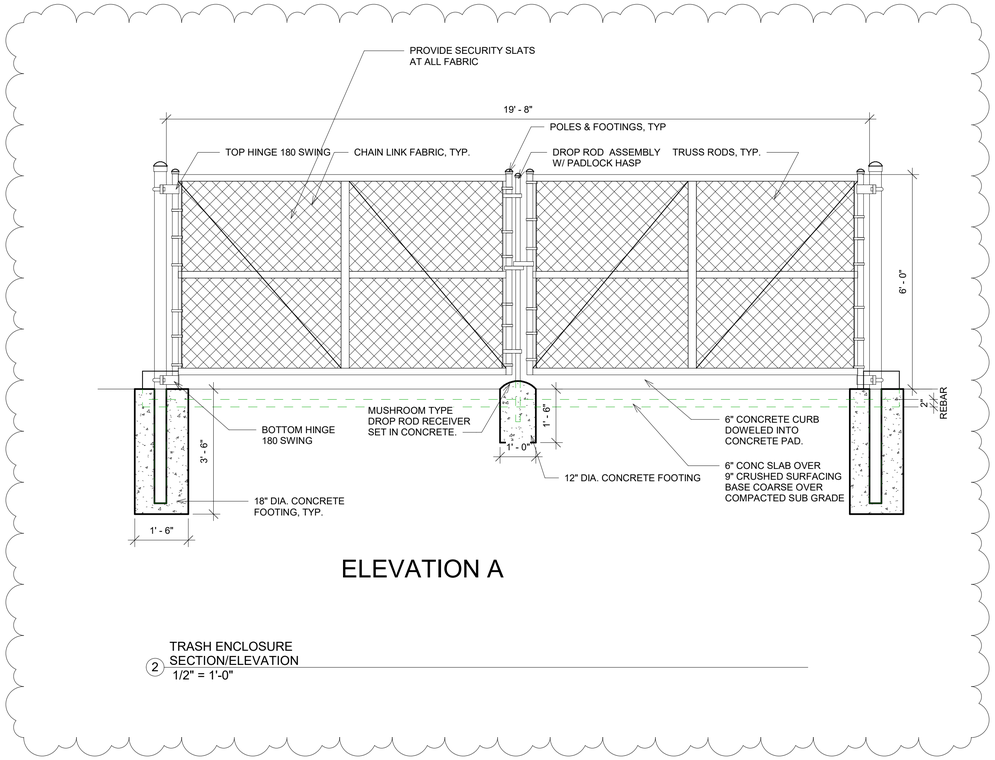
Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

A1A-9.1

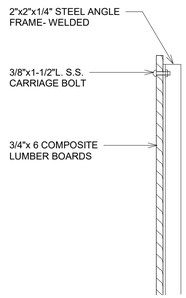


1 TRASH ENCLOSURE
1/2" = 1'-0"

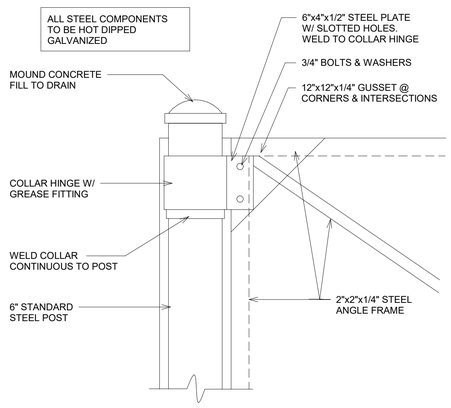


ELEVATION A

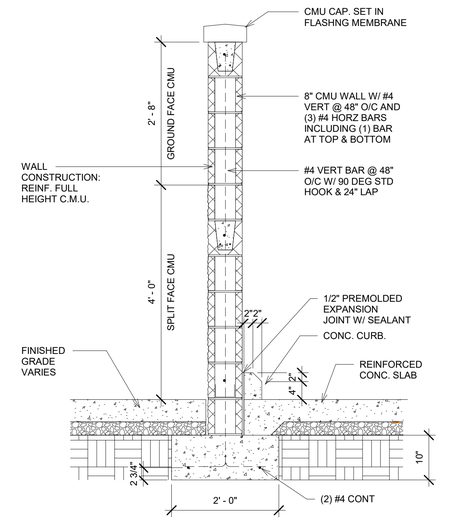
2 TRASH ENCLOSURE
SECTION/ELEVATION
1/2" = 1'-0"



3 TRASH ENCLOSURE SCREEN DETAIL
1 1/2" = 1'-0"



4 TRASH ENCLOSURE HINGE DETAIL
1 1/2" = 1'-0"



5 TRASH ENCLOSURE WALL SECTION
3/4" = 1'-0"

LICENSED
ARCHITECT
AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

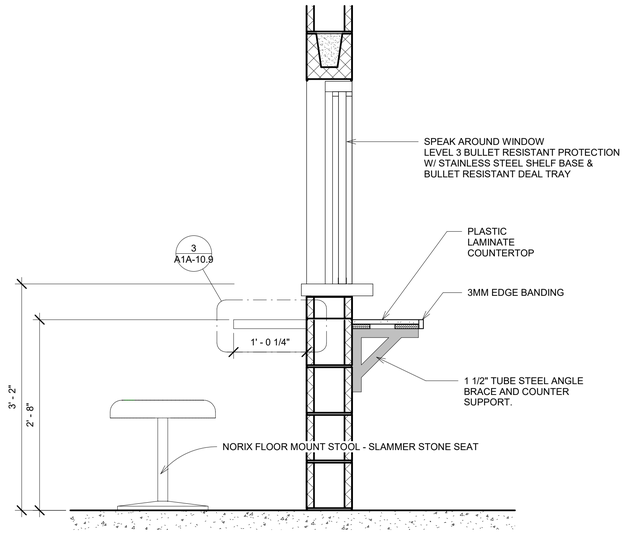
DATE	
8/8/24	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
DETAIL - TRASH ENCLOSURE

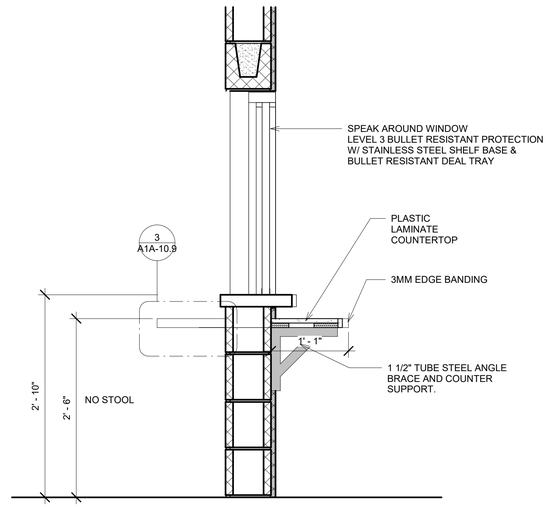
Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

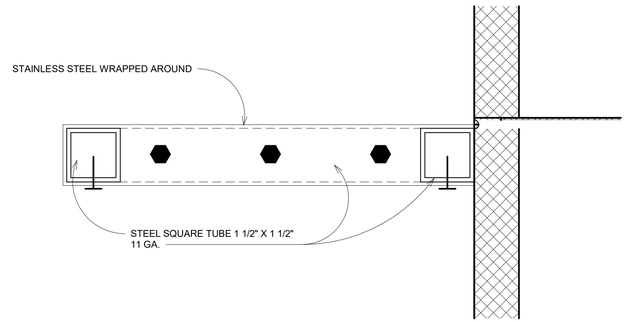
A1A-10.1



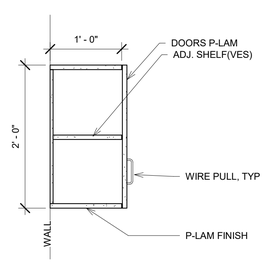
1 TYP. ATTORNEY CLIENT WINDOW (NON-ADA)
1" = 1'-0"



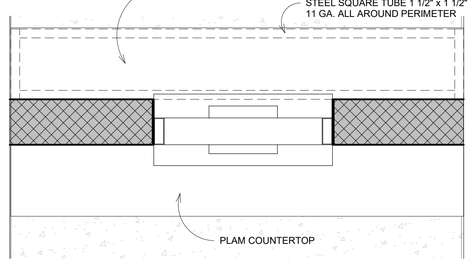
2 ADA ATTORNEY CLIENT WINDOW
1" = 1'-0"



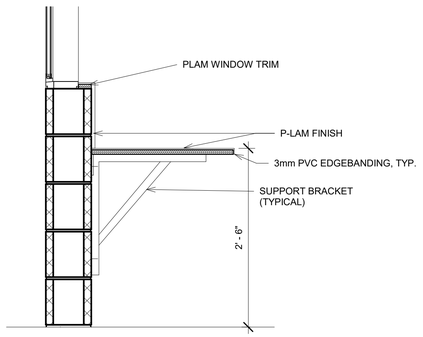
3 STAINLESS STEEL SHELF SECTION
6" = 1'-0"



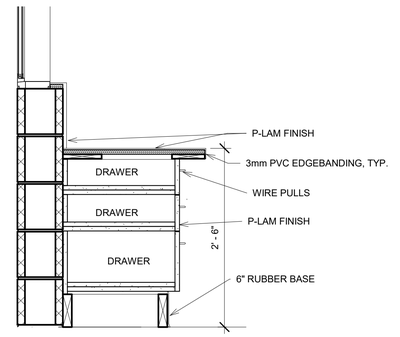
4 UPPER CASEWORK DETAIL1
1" = 1'-0"



5 STAINLESS STEEL SHELF PLAN
1" = 1'-0"



8 CONTROL CASEWORK 3
1" = 1'-0"



9 CONTROL CASEWORK 3 DRAWER
1" = 1'-0"

LICENSED
ARCHITECT
AR-985708
R. COLBY RICKS
STATE OF IDAHO
7.15.24

DATE

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
DETAILS CASEWORK

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.24
KM Drawn
RCR Checked
#23029 PROJECT #

A1A-10.9

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

GENERAL REQUIREMENTS:

1. THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).
2. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.
4. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
5. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
6. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT, SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.
7. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS, THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (5) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

BASIS FOR DESIGN:

1. BUILDING CODE: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

   RISK CATEGORY = IV

2. VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	ROOF = 30 PSF GROUND = 15 PSF	20 PSF
STAIRS	100 PSF	50 PSF

3. DEFLECTION LIMITS:

ELEMENTS	LIVE LOAD	TOTAL LOAD
ROOF TRUSSES/JOISTS	L/360	L/240
BEAMS	L/360	L/240

4. SEISMIC DESIGN PARAMETERS:

ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
IMPORTANCE FACTOR	Ie = 1.50
SITE CLASS	D (ASSUMED)
SEISMIC DESIGN CATEGORY	C
MAPPED SPECTRAL RESPONSE ACCELERATIONS	S_1 = 0.082, S_S = 0.194
DESIGN SPECTRAL RESPONSE ACCELERATIONS	S_{D1} = 0.131, S_{DS} = 0.207
PERCENT SNOW INCLUDED WITH SEISMIC LOADS	20
VERTICAL SHEAR TRANSFER ELEMENTS:	
ORDINARY REINFORCED MASONRY WALLS	R = 2, C_S = 0.155

5. WIND DESIGN PARAMETERS (STRENGTH):

ULTIMATE WIND SPEED	113 MPH (3 SECOND GUST)
WIND EXPOSURE	C
IMPORTANCE FACTOR	Iw = 1.00
INTERNAL PRESSURE COEFFICIENT	-0.18
COMPONENT AND CLADDING PRESSURE	27.1 PSF
NET UPLIFT ON ROOF	21.3 PSF

FOUNDATION NOTES:

1. IN LIEU OF A GEOTECHNICAL REPORT: THE FOUNDATION HAS BEEN DESIGNED ACCORDING TO THE RECOMMENDATIONS OF CHAPTER 18 OF THE IBC.
2. THE SOIL DESIGN VALUES LISTED BELOW HAVE BEEN APPROVED BY THE CITY/COUNTY BUILDING DEPARTMENT, CONTINGENT THAT THE SOIL ON THE SITE PREDOMINATELY CONSISTS OF SAND AND/OR GRAVEL.

   SPECIFIC SOIL CLASSIFICATIONS SHOULD BE ONE OF THE FOLLOWING: SANDY GRAVEL OR GRAVEL(GW OR GP), SAND(SW AND SP), SILTY SAND(SM), CLAYEY SAND(SC), SILTY GRAVEL(GM), OR CLAYEY GRAVEL(GC). THESE SOIL CLASSIFICATIONS CAN BE FOUND IN TABLE 1806.2 OF CHAPTER 18 OF THE IBC.

   VERIFICATION OF SOIL CLASSIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	1500 PSF
ALLOWABLE LATERAL BEARING PRESSURE	150 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.25
LATERAL BACKFILL PRESSURE (UNRESTRAINED)	45 PSF/FT
LATERAL BACKFILL PRESSURE (RESTRAINED)	60 PSF/FT

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH
24" BELOW FINISHED GRADE

4. ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERED FILL OR COMPETENT NATIVE SOIL SUBBASE COMPACTED TO 95% DRY DENSITY (STANDARD PROCTOR). GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
5. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH (MIN) LAYER OF FREE-DRAINING GRANULAR MAT (DRAINAGE FILL COURSE). THE MAT SHOULD CONSIST OF A WELL GRADED SAND AND GRAVEL MIXTURE WITH MAXIMUM 3/4-INCH CRUSHED AGGREGATE. THE GRANULAR MAT SHOULD BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
6. BACKFILL AGAINST RESTRAINED WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS AND CONCRETE OR GROUT STRENGTH HAS REACHED THE 28 DAY STRENGTH LISTED BELOW.

REINFORCING STEEL:

1. ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, AND ELEVATED SLAB REINFORCING.
2. WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
3. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

STEEL:

1. MATERIALS: ROLLED W SHAPES, SHALL CONFORM TO ASTM A992 (FY=50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS AND PLATES SHALL CONFORM TO ASTM A36 (FY = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (FY = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI). ALL TUBULAR STEEL SHALL BE ASTM A500 GRADE C (FY = 50 KSI).
2. ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS TO HAVE CURRENT ICC REPORT RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AWS. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS.
3. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
4. WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
5. STEEL TO STEEL BOLTED CONNECTIONS: HIGH STRENGTH BOLTS SHALL BE ASTM A325N AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE (TYPE "N" CONNECTION UNLESS NOTED OTHERWISE). BOLTS MAY BE TIGHTENED USING ANY AISC APPROVED METHOD.
6. DRYPACK SHALL BE 5,000 PSI FIVE STAR NON-SHRINK GROUT OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

CONCRETE:

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	MAX W/C RATIO	AIR ENTRAINMENT
FOOTINGS	3500 PSI	0.50	5.5% ± 1%
FOUNDATION WALLS	4500 PSI	0.45	5.5% ± 1%
INTERIOR CONCRETE SLABS ON GRADE	4500 PSI AT SALLY PORT 3500 PSI ELSEWHERE	0.45	N/A

2. ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33.
3. LAP SPLICES FOR BEAMS AND FLOOR SLABS SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

   STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.
4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± 3/8"
SLABS ON GRADE	1 1/2"	± 1/4"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1 1/2"	± 3/8"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± 3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY) REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1 1/2"	3/8"

5. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
7. CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

   ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
8. ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED A MAXIMUM LENGTH OF 36 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS (EXAMPLE: 4" SLAB = 12'-0" LENGTH). SQUARE LAYOUTS ARE PREFERRED, BUT THE SLAB GEOMETRY MAY DICTATE OTHERWISE. THE RATIO OF THE LONG TO SHORT DISTANCE SHALL NOT EXCEED 1.3. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

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   KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.
9. HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.
10. FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
11. COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.
12. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
13. LIMIT ALKALI-SILICA REACTION (ASR) TO 0.1% EXPANSION AT 28 DAYS IN CONCRETE MIX AT ALL EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO MOISTURE.

WOOD:

1. GENERAL: DO NOT NOTCH OR DRILL JOISTS, BEAMS, OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. DOUBLE UP JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" (NOMINAL) SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. UNLESS NOTED OTHERWISE ON PLANS/DETAILS PROVIDE 2x SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO IBC TABLE 2304.10.1. JOIST HANGERS AND OTHER MISC. FRAMING ANCHORS SHALL BE SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT ICC-ES APPROVAL.
2. SAWN LUMBER: FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE IN SCHEDULES:

USE:	MATERIAL:
2x4 STUDS	DOUGLAS-FIR NO. 2, MINIMUM (U.N.O.)
2x6 STUDS	DOUGLAS-FIR NO. 2, MINIMUM (U.N.O.)
JOISTS, TOP PLATES AND ALL OTHER SAWN LUMBER	DOUGLAS-FIR NO. 2, MINIMUM (U.N.O.)
BEAMS AND POSTS	DOUGLAS-FIR NO. 2, MINIMUM (U.N.O.)

3. PLYWOOD: ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING CONFORMING TO STANDARD PS 1-95. LAY UP PLYWOOD WITH FACE GRAIN IN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD, STAGGER JOINTS). ALL NAILING, COMMON NAILS. BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

LOCATION:	NOMINAL THICKNESS:	SPAN INDEX RATING:	EDGE ATTACHMENT:	FIELD ATTACHMENT:
WALL	7/16" OR 1/2"	24/16	8d AT 6" O.C.	8d AT 12" O.C.
ROOF	7/16" OR 1/2"	24/16	8d AT 6" O.C.	8d AT 12" O.C.
ROOF	15/32" OR 1/2"	32/16	8d AT 6" O.C.	8d AT 12" O.C.
ROOF	19/32" OR 5/8"	40/20	10d AT 6" O.C.	10d AT 12" O.C.
ROOF	23/32" OR 3/4"	48/24	10d AT 6" O.C.	10d AT 12" O.C.
ROOF	7/8"	60/32	10d AT 6" O.C.	10d AT 12" O.C.
FLOOR	3/4" T&G	48/24	10d AT 6" O.C. OR #8 SCREWS AT 6" O.C.	10d AT 6" O.C. OR #8 SCREWS AT 12" O.C.
FLOOR	7/8" T&G	60/32	10d AT 6" O.C. OR #8 SCREWS AT 6" O.C.	10d AT 6" O.C. OR #8 SCREWS AT 12" O.C.
FLOOR	1 1/8" T&G	60/48	10d AT 6" O.C. OR #8 SCREWS AT 6" O.C.	10d AT 6" O.C. OR #8 SCREWS AT 12" O.C.

   SCREWS AT FLOOR SHEATHING SHALL BE #8 SCREWS AND SHALL PENETRATE AT LEAST 1 1/2" INTO THE SUPPORTING MEMBER. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING MEMBERS WITH AN APA AFG-01 QUALIFIED ADHESIVE.

   PLYWOOD ALTERNATE: AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFER. IT MAY NOT BEUSED ON ROOFS WHERE BUILT UP ROOF SYSTEM IS TO BE GUARANTEED BY ROOFER. RATED SHEATHING SHALL COMPLY WITH CURRENT ICC-ES REPORTS AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. NOMINAL 2x AND 3x DECKING. TONGUE AND GROOVE TYPE. MINIMUM Fb = 1,600 PSI, MINIMUM E = 1,300,000 PSI. INSTALL WITH TONGUES UP SLOPE ON PITCHED ROOFS, AND OUTWARD IN THE DIRECTION OF LAYING ON FLAT ROOFS. NAIL EACH PLANK WITH 16d TOENAIL (THRU THE TONGUE) AND 16d FACE NAIL AT EACH SUPPORT. DECK SHALL BE INSTALLED AS SIMPLE SPAN WITH ALL PLANKS BEARING ON TWO SUPPORTS. FOR REFERENCE AND/OR ADDITIONAL INFORMATION SEE AITC 117-2010.
5. GLUED-LAMINATED BEAMS (GLB): GLUED-LAMINATED BEAMS SHALL BE DOUGLAS FIR COMBINATION AT 24F-V4 AT SIMPLE SPAN BEAMS AND 24F-V8 AT MULTI-SPAN AND CANTILEVERED BEAMS WITH THE FOLLOWING MINIMUM PROPERTIES: FB = 2,400 PSI, FV = 190 PSI, FC (PERPENDICULAR) = 650 PSI, E =1,800 KSI. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. STANDARD CAMBER IS BASED ON A RADIUS OF CURVATURE OF 2000 FEET.
6. GLUED-LAMINATED COLUMNS: GLUED-LAMINATED COLUMNS SHALL BE DOUGLAS FIR COMBINATION 3 WITH THE FOLLOWING MINIMUM PROPERTIES: FBY = 2,100 PSI, FBX = 2000 PSI, FVY = 230 PSI, FVX = 265 PSI, FC (PERPENDICULAR) = 650 PSI, E =1,900 KSI. ALL COLUMNS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. COLUMNS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE.
7. LAMINATED VENEER LUMBER (LVL): DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH THE LATEST ICC-ES REPORT. MINIMUM PROPERTIES FOR LVLs SHALL BE: FB = 2,600 PSI, FV = 285 PSI, E = 2,000 KSI.
8. PARALLEL STRAND LUMBER (PSL): DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH THE LATEST ICC-ES REPORT. MINIMUM PROPERTIES FOR PSLs SHALL BE: FB = 2,900 PSI, FV = 290 PSI, E = 2,000 KSI.
9. LAMINATED STRAND LUMBER (LSL): DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH THE LATEST ICC-ES REPORT. MINIMUM PROPERTIES FOR LSLs SHALL BE: FB = 2,325 PSI, FV = 310 PSI, E = 1,550 KSI.
10. SILL PLATES RESTING ON CONCRETE OR MASONRY SHALL BE OF TREATED FIR. SHEAR WALLS AND EXTERIOR WALL SILLS AT CONCRETE SLAB SHALL HAVE A MINIMUM OF (2) ANCHOR BOLTS PER PIECE. PROVIDE ANCHOR BOLT AT 9" MAXIMUM, 4" MINIMUM FROM THE END OF EACH PIECE AT SPLICE OR END OF WALL. MAXIMUM ANCHOR BOLT SPACING SHALL BE 72" ON CENTER UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL ANCHOR BOLTS (OTHER THAN BOLTS FOR HOLDOWNS) SHALL EMBED 7" INTO CONCRETE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS PART OF REQUIRED ANCHOR BOLTS ON SHEAR WALLS. ALL EXTERIOR WALLS SHALL BE SECURED WITH MINIMUM ANCHOR BOLTS. INTERIOR WALLS MAY BE SECURED TO CONCRETE WITH EITHER ANCHOR BOLTS OR POWER DRIVEN SHOT PINS UNLESS NOTED OTHERWISE ON PLANS.
11. BOLTING: ALL BOLTS IN WOOD CONNECTIONS SHALL CONFORM TO ASTM A307. BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE Ø (DIAMETER) OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NICK THREADS TO PREVENT LOOSENING.
12. PREFABRICATED WOOD TRUSSES: PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS LIVE LOAD AND SUPERIMPOSED DEAD LOADS. WHERE UNINHABITABLE ATTIC SPACE CAN BE USED FOR STORAGE, A 20 PSF LIVE LOAD ON THE BOTTOM CHORD SHALL BE INCLUDED IN THE ANALYSIS. BRIDGING SIZE AND SPACING BY TRUSS MANUFACTURER UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE FOR BOTH ROOF AND FLOOR TRUSSES WHEN USED.

    SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL HAVE CURRENT ICC-ES APPROVAL. ADDITIONAL TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. PER IBC SECTION 2303.4 AND TPI-1: EACH TRUSS SHALL BE LEGIBLY BRANDED, MARKED OR OTHERWISE HAVE PERMANENTLY AFFIXED THERETO THE IDENTITY OF THE COMPANY MANUFACTURING THE TRUSS, THE DESIGN LOADS, AND THE TRUSS SPACING - WITHIN TWO FEET OF THE CENTER OF THE SPAN ON THE FACE OF THE BOTTOM CHORD.

    PREFABRICATED WOOD/STEEL WEB JOIST/PURLINS (TJI/TJL SERIES OR EQUAL): DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH THE LATEST EDITION ICC-ES REPORT. CONNECTIONS AND BEARING MATERIAL TO BE DESIGNED AND FURNISHED BY JOIST FABRICATOR. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. ADDITIONAL JOISTS SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

DEFERRED SUBMITTAL ITEMS:

PREFABRICATED STEEL JOISTS

SYMBOLS LEGEND

(NOT ALL SYMBOLS NECESSARILY APPLY TO THIS PROJECT)

- WALLS WITH SOLID LINES DESIGNATE STRUCTURAL (BEARING) WALLS.
- WALLS WITH DASHED LINES DESIGNATE NON-STRUCTURAL (NON-BEARING) WALLS.
- WALLS WITH HATCH DESIGNATE MASONRY WALLS.
- 5, 6, 7 -AS SHOWN ON PLAN INDICATES A SHEARWALL; HATCHING IN WALL DESIGNATES SHEARWALL LENGTH.
- A, B, - AS SHOWN ON PLAN INDICATES A SHEARWALL HOLDOWN. SEE HOLDOWN SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
- RME XXX# INDICATES HVAC EQUIPMENT ON ROOF OR IN ATTIC SPACE. SEE TYPICAL DETAILS FOR FRAMING INFORMATION.
- - AS SHOWN ON PLAN INDICATES A HELICAL PIER.
- XXXX CS16, CMSTC16, ECT. - AS SHOWN AT WALL OPENINGS INDICATE STRAPPING, PROVIDE STRAPPING PER "TYPICAL STRAP AT OPENING" DETAIL.
- D=xxx# INDICATES DRAG LOAD (ASD) THAT TRUSS MANUFACTURER IS TO DESIGN TRUSS FOR IN BOTH TENSION AND COMPRESSION.
- STEP INDICATES STEPPED OR DEPRESSED SLAB.
- C=X" INDICATES CAMBER IN BEAM.
- INDICATES RIDGID CONNECTION.
- PX P1, P2, ETC. AS SHOWN ON PLAN INDICATES A WOOD POST. SEE POST SCHEDULE FOR MORE INFORMATION.
- SCX SC1, SC2, ETC. - AS SHOWN ON PLAN INDICATES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.

ABBREVIATIONS

A.B.C.	AGGREGATE BASE COURSE	GLB (GLULAM)	GLUED-LAMINATED BEAM
A/C	AIR CONDITIONER	I.F.W.	INSIDE FACE OF WALL
A.F.F.	ABOVE FINISHED FLOOR	HORIZ.	HORIZONTAL
ALT.	ALTERNATE	K(KIP)	1000 POUNDS
A.B.	ANCHOR BOLT	L.L.	LIVE LOAD
@	AT (MEASUREMENT)	LBS (#)	POUNDS
BM	BEAM	LLH	LONG LEG HORIZONTAL
B.F.F	BELOW FINISHED FLOOR	LLV	LONG LEG VERTICAL
B.O.B.	BOTTOM OF BEAM	MIN.	MINIMUM
B.O.D.	BOTTOM OF DECK	MAX.	MAXIMUM
B.O.F.	BOTTOM OF FOOTING	MFR('S)	MANUFACTURER('S)
BRG	BEARING	M.C.J.	MASONRY CONTROL JOINT
C.I.P.	CAST IN PLACE	MECH'L.	MECHANICAL
C.L.	CENTERLINE	N/A	NOT APPLICABLE
C.L.B.	CENTERLINE OF BEAM	N.T.S.	NOT TO SCALE
C.L.C.	CENTERLINE OF COLUMN	O.C.	ON CENTER
C.L.F.	CENTERLINE OF FOOTING	O.F.W.	OUTSIDE FACE OF WALL
C.L.W.	CENTERLINE OF WALL	OPP.	OPPOSITE
CLR	CLEAR	P.C.	PRECAST CONCRETE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
C.C.J.	CONCRETE CONTROL JOINT	PREFAB	PREFABRICATED
C.S.J.	CONCRETE SAWCUT JOINT	PSF	POUNDS PER SQUARE FOOT
C.M.U.	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
CONN.	CONNECTION	REINF.	REINFORCING
CONT.	CONTINUOUS	SLH	SHORT LEG HORIZONTAL
D.L.	DEAD LOAD	SLV	SHORT LEG VERTICAL
ø OR DIA.	DIAMETER	SIM.	SIMILAR
DN.	DOWN	SQ.	SQUARE
DWG(S)	DRAWING(S)	STD	STANDARD
E.O.S.	EDGE OF SLAB	T.L.	TOTAL LOAD
EQ.	EQUAL	T.O.B.	TOP OF BEAM
EQUIP.	EQUIPMENT	T.O.D.	TOP OF DECK
EXP. BOLT	EXPANSION BOLT	T.O.F.	TOP OF FOOTING
EXP. JT (E.J.)	EXPANSION JOINT	T.O.L.	TOP OF LEDGER
(E)	EXISTING	T.O.M.	TOP OF MASONRY
E.W.	EACH WAY	T.O.P.	TOP OF PLATE
F.F.	FINISHED FLOOR	T.O.S.	TOP OF STEEL
F.O.M.	FACE OF MEMBER	T.O.W.	TOP OF WALL
F.O.S.	FACE OF STEEL	TYP.	TYPICAL
F.O.W.	FACE OF WALL	U.N.O.	UNLESS NOTED OTHERWISE
GA.	GAUGE	VERT	VERTICAL
GALV.	GALVANIZED	W.W.F.	WELDED WIRE FABRIC
GSN	GENERAL STRUCTURAL NOTES	W/	WITH
		W/O	WITHOUT

SHEET INDEX

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER

08/08/2024

DATE	
08/08/2024	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
GENERAL STRUCTURAL NOTES

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.2024
PERMIT SET
KBB Checked
#23029
PROJECT #

S1.0

MASONRY (CONCRETE BLOCK):

MINIMUM 28 DAY MASONRY STRENGTH SHALL BE 2000 PSI.

MASONRY COMPRESSIVE STRENGTH: NET COMPRESSIVE STRENGTH OF THE OVERALL MASONRY SYSTEM (MORTAR, UNITS, AND GROUT) SHALL BE f'M=2,000 PSI (BY UNIT STRENGTH METHOD)

1. VERTICAL REINFORCING: PROVIDE AS REQUIRED PER PLAN AND SCHEDULE. REINFORCING TO BE FULL HEIGHT OF WALL. CENTERED IN GROUTED CELL, UNO. PROVIDE A MINIMUM OF ONE FULL-HEIGHT BAR AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS, COLUMN CORNERS AND EACH SIDE OF CONTROL JOINTS, UNO ON PLANS/DETAILS. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE OR EQUIVALENT. DOWEL ALL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL WALL OR COLUMN REINFORCING.
2. CONTROL JOINTS: UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
3. HORIZONTAL REINFORCING: PROVIDE AS REQUIRED PER PLAN AND SCHEDULE. (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS) ONE #5 BAR IN TOP AND BOTTOM OF 16 INCH DEEP CONTINUOUS GROUTED BOND BEAM AT ELEVATED FLOOR AND ROOF LINES.

   HORIZONTAL BARS AT TOP OF PARAPET OR FREE STANDING WALLS SHALL BE ONE #5 BAR IN CENTER OF 8 INCH DEEP CONTINUOUS GROUTED BOND BEAM.

   BOND BEAM REINFORCING AT FLOOR, ROOF OR TOP OF WALL SHALL RUN CONTINUOUS THROUGH CONTROL JOINTS, UNO. PROVIDE BENT BARS PER TYPICAL DETAILS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
4. TENSION LAP SPLICES OF REINFORCING STEEL IN MASONRY SHALL BE AS FOLLOWS:

REBAR SIZE	STANDARD LAP	RETAINING WALLS (AT FACE OF WALL)
#4	24"	30"
#5	30"	46"
#6	43"	55"
#7	60"	64"
#8	72"	72"

5. REINFORCING PLACEMENT TOLERANCES: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. TOLERANCES FOR PLACEMENT OF VERTICAL REINFORCING SHALL BE (±) 1/2" PERPENDICULAR TO WALL AND (±) 2" ALONG THE LENGTH OF THE WALL. PROVIDE 1/2" CLEARANCE BETWEEN MASONRY UNITS AND REINFORCING, AND REINFORCING RUNNING IN THE SAME DIRECTION. LAPS MAY BE BESIDE OR OVER THE REINFORCING BEING SPLICED.
6. BLOCK QUALITY: CONCRETE BLOCK SHALL BE LIGHTWEIGHT LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.
7. MORTAR: MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF THE ASTM C270 AND ASTM C780 STANDARDS, TYPE M OR S.
8. GROUT: GROUT SHALL CONFORM TO REQUIREMENTS OF ASTM C476. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. ALL GROUT SHALL BE MECHANICALLY VIBRATED.

   GROUT LIFTS OF 5 FEET OR LESS IS RECOMMENDED. FOR HIGHER GROUT LIFTS, CLEANOUTS (3"x3") AT THE BOTTOM OF ALL VERTICALLY REINFORCED CELLS SHALL BE PROVIDED. IN ADDITION, MECHANICAL DEVICES SHALL BE USED TO POSITION AND SECURE REINFORCING WHEN GROUT LIFTS EXCEED 5 FEET IN HEIGHT. IN SOLID GROUTED MASONRY, CLEANOUTS SHALL NOT BE SPACED MORE THAN 32" O.C.
9. BLOCK CONSTRUCTION: ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
10. LINTELS: FULLY GROUT FOR THE DEPTH SPECIFIED ON PLANS/DETAILS. LINTELS SHALL BE SUPPORTED ON FULLY GROUTED MASONRY. BEARING SHALL NOT BE LESS THAN THE SPECIFIED JAMB LENGTH OR 8" MINIMUM. EXTEND LINTEL REINFORCING FOR A MINIMUM OF 2'-0" BEYOND THE OPENING OR PROVIDE STANDARD HOOK, SEE TYPICAL MASONRY DETAILS FOR ADDITIONAL INFORMATION.
11. PROVIDE 9 GA. GALVANIZED (ASTM A153) HORIZONTAL JOINT REINFORCEMENT, CONFORMING TO ASTM A951. PLACE IN WALLS AT 16" O.C. VERTICALLY, UNO. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN BOND BEAMS AT 8" O.C. VERTICALLY. LAP JOINT REINFORCEMENT 6" MINIMUM. JOINT REINFORCEMENT MAY BE LADDER OR TRUSS TYPE.

STEEL JOISTS AND JOIST GIRDERS:

1. SPECIFICATIONS: ALL JOISTS SHALL BE DESIGNED, FABRICATED, WELDED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS" OF THE STEEL JOIST INSTITUTE.
2. JOIST DESIGN: JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOISTS, EXCEPT PARALLEL CHORD JOISTS WITH UNIFORM LOADS AND CONTINUOUSLY SUPPORTED COMPRESSION CHORDS PER SJI STANDARD LOAD TABLES.

   GIRDER DESIGN: JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOIST GIRDERS.
3. CALCULATIONS: CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/360. TOTAL LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/240. ALL JOISTS AND JOIST GIRDERS SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD. MANUFACTURER SHALL ADD ADDITIONAL WEB MEMBERS AS REQUIRED AND ADJUST CHORD AND WEB SIZES ACCORDINGLY, BUT SHALL NOT ALTER DEPTH OF JOISTS. DESIGN CALCULATIONS SHALL INCLUDE SUPERIMPOSED LOADS FOR FRAMING SUPPORTED EQUIPMENT. VERIFY SIZE, WEIGHT AND LOCATION OF EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
4. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO MANUFACTURE. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO INSTALLATION. SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE DETAILS OF OPTIONAL FIELD SPLICES.
5. BEARING: ALL STEEL JOISTS/GIRDERS OR BEAMS SHALL BEAR AT A PANEL POINT. JOISTS OR BEAMS TO BE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS NOTED OTHERWISE. MANUFACTURER SHALL DESIGN JOIST SHOES WHERE BEARING LENGTH IS LESS THAN 4" AT LH SERIES JOIST AND LESS THAN 3" AT K SERIES JOIST.
6. BRIDGING: MANUFACTURERS SHALL PROVIDE BRIDGING AS REQUIRED, PER SJI SPECIFICATIONS. DO NOT WELD BOTTOM CHORD TO JOIST SUPPORT UNTIL FULL DEAD LOAD IS IN PLACE. WHERE CROSS BRIDGING INTERFERES WITH MECHANICAL INSTALLATIONS, REMOVE THIS CROSS BRIDGING AFTER TOTAL DEAD LOAD IS APPLIED AND REPLACE WITH HORIZONTAL ANGLES L2x2x3 16 AT TOP AND BOTTOM CHORDS.

STEEL DECKING:

1. PROTECT STEEL DECK FROM CORROSION, DEFORMATION, AND OTHER DAMAGE DURING DELIVERY, STORAGE AND HANDLING.

   IF GROUND STORAGE IS NEEDED, THE DECK BUNDLES MUST BE STORED OFF THE GROUND, WITH ONE END ELEVATED TO PROVIDE DRAINAGE. BUNDLES MUST BE PROTECTED AGAINST CONDENSATION WITH A VENTILATED WATERPROOF COVERING. BUNDLES MUST BE STACKED SO THERE IS NO DANGER OF TIPPING, SLIDING, ROLLING, SHIFTING OR MATERIAL DAMAGE. BUNDLES MUST BE PERIODICALLY CHECKED FOR TIGHTNESS, AND RETIGHTENED AS NECESSARY.

   DECK BUNDLES PLACED ON THE BUILDING FRAME MUST BE PLACED NEAR A MAIN SUPPORTING BEAM AT A COLUMN OR WALL. IN NO CASE ARE THE BUNDLES TO BE PLACED ON UNBOLTED FRAMES OR ON UNATTACHED AND/OR UNBRIDGED JOISTS. THE STRUCTURAL FRAME MUST BE PROPERLY BRACED TO RECEIVE THE BUNDLES.
2. EXAMINE SUPPORT FRAMING AND FIELD CONDITIONS FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK OF THIS SECTION. ALL OSHA RULES FOR ERECTION MUST BE FOLLOWED.

   PLACE DECK IN ACCORDANCE WITH APPROVED INSTALLATION DRAWINGS.

   LOCATE DECK BUNDLES TO PREVENT OVERLOADING OF SUPPORT MEMBERS.

   INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO ANSI/SDI RD - 2010 AND IN ACCORDANCE WITH APPROVED INSTALLATION DRAWINGS AND REQUIREMENTS OF THIS SECTION.

   PLACE DECK PANELS ON STRUCTURAL SUPPORTS AND ADJUST TO FINAL POSITION WITH ENDS ALIGNED. ATTACH FIRMLY TO THE SUPPORTS INNEDIATELY AFTER PLACEMENT IN ORDER TO FORM A SAFE WORKING PLATFORM.

   CUT AND NEATLY FIT DECK UNITS AND ACCESSORIES AROUND OPENINGS AND OTHER WORK PROJECTING THROUGH OR ADJACENT TO THE DECKING.

   TRADES THAT SUBSEQUENTLY CUT UNSCHEDULED OPENINGS THROUGH THE DECK ARE RESPONSIBLE FOR REINFORCING THE OPENINGS.

   BEFORE PLACEMENT OF ROOF INSULATION AND ROOF COVERING, THE DECK SHALL BE INSPECTED FOR TEARS, DENTS OR OTHER DAMAGE THAT MAY PREVENT THE DECK FROM ACTING AS A STRUCTURAL ROOF BASE. THE NEED FOR REPAIR OF DAMAGED DECK SHALL BE DETERMINED BY THE ENGINEER OF RECORD BASED ON STRUCTURAL PERFORMANCE, UNLESS AESTHETICS HAVE BEEN SPECIFICALLY ADDRESSED IN THE CONTRACT DOCUMENTS.

   DO NOT USE DECK UNITS AS A WORKING PLATFORM OR STORAGE AREA UNTIL UNITS ARE IN POSITION AND PERMANENTLY ATTACHED TO THE STRUCTURE.

   CONSTRUCTION LOADS MUST NOT EXCEED LOAD CARRYING CAPACITY OF THE DECK.

POST-INSTALLED ANCHORS:

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES. ALL ANCHORS ARE TO BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.

ANCHORAGE TO CONCRETE:

ADHESIVE ANCHORS:

HILTI HIT-HY 200	PER ICC ESR-3187
HILTI HIT-RE 500 V3	PER ICC ESR-3814
SIMPSON AT-XP	PER IAPMO ER-263
SIMPSON SET-XP	PER ICC ESR-2508

MECHANICAL ANCHORS:

HILTI KWIK HUS	PER ICC ESR-3027
HILTI KWIK BOLT-TZ EXPANSION ANCHORS	PER ICC ESR-1917
SIMPSON TITEN HD	PER ICC ESR-2713
SIMPSON STRONG BOLT-2	PER ICC ESR-3037

REBAR DOWELING TO CONCRETE:

ADHESIVES:

HILTI HIT-HY 200	PER ICC ESR-3187
HILTI HIT-RE 500 V3	PER ICC ESR-3814
SIMPSON AT-XP	PER IAPMO ER-263
SIMPSON SET-XP	PER ICC ESR-2508

ANCHORAGE TO SOLID GROUTED MASONRY:

ADHESIVE ANCHORS:

HILTI HIT-HY 200	PER ICC ESR-3963
SIMPSON AT-XP	PER IAPMO ER-281
SIMPSON SET-XP	PER ICC ESR-1772

MECHANICAL ANCHORS:

HILTI KWIK BOLT-3 EXPANSION ANCHORS	PER ICC ESR-1385
HILTI KWIK BOLT-TZ EXPANSION ANCHORS	PER ICC ESR-3785
SIMPSON TITEN HD	PER ICC ESR-1056
SIMPSON STRONG BOLT-2	PER IAPMO ER-240

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR OR IAPMO ER SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
3. INSTALL THE ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

SPECIAL INSPECTION ITEMS:

1. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED PER IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

VERIFICATION AND INSPECTION OF STRUCTURAL STEEL

		VERIFICATION AND INSPECTION	OBSERVE	PERFORM
1.		▯ INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	▯ ▯	
	A.	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X	
	B.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		X
	C.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X
	D.	MATERIAL IDENTIFICATION (TYPE/GRADE)	X	
	E.	WELDER IDENTIFICATIONS SYSTEM (THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. (STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE)	X	
	F.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY), JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION) , BACKING TYPE AND FIT (IF APPLICABLE)	X	
	G.	FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY), JOINT PREPARATIONS, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION	X	
	H.	CONFIGURATION AND FINISH OF ACCESS HOLES	X	
	I.	FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	X	
	J.	CHECK WELDING EQUIPMENT	-	-
2.		INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	▯ ▯	
	A.	CONTROL AND HANDLING OF WELDING CONSUMABLES, PACKAGING, EXPOSURE CONTROL	X	
	B.	NO WELDING OVER CRACKED TACK WELDS	X	
	C.	ENVIRONMENTAL CONDITIONS, WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE	X	
	D.	WELDING PROCEDURE SPECIFICATIONS (WPS) FOLLOWED, SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F, V, H, OH)	X	
	E.	WELDING TECHNIQUES, INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS	X	
	F.	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		X
3.		INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	▯ ▯	
	A.	WELDS CLEANED	X	
	B.	SIZE LENGTH AND LOCATION OF WELDS		X
	C.	WELDS MEET VISUAL ACCEPTANCE CRITERIA, CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY		X
	D.	ARC STRIKES		X
	E.	K-AREA (WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD).		X
	F.	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS)		X
	G.	BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		X
	H.	REPAIR ACTIVITIES		X
	I.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		X
	J.	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	X	
4.		INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	▯ ▯	
	A.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		X
	B.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	X	
	C.	CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	X	
	D.	CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	X	
	E.	CONNECTION ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	X	
	F.	PRE-INSTALLED VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	X	
	G.	PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	X	
5.		INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	▯ ▯	
	A.	FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	X	
	B.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	X	
	C.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X	
	D.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES	X	
6.		INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	▯ ▯	
	A.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		X
7.		INSPECTOR SHALL BE ON PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL. THE INSPECTOR SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS (SECTION N5.7)	X	

SPECIAL INSPECTION FOR MASONRY LEVEL 3 (TMS602)

		TYPE	CONTINUOUS	PERIODIC
1.		PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION		X
2.		PRIOR TO CONSTRUCTION, VERIFICATION OF F'm AND F'AAC, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.		X
3.		DURING CONSTRUCITON, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.		X
4.		DURING CONSTRUCTION, VERIFICATION OF F'm AND F'AAC FOR EVERY 5,000 SQ. FT.		X
5.		DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.		X
6.		AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
	A.	PROPORTIONS OF SITE-PREPARED MORTAR		X
	B.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X
	C.	GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
	D.	PRESTRESSING TECHNIQUE		X
	E.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	
	F.	SAMPLE PANEL CONSTRUCTION	X	
7.		PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
	A.	GROUT SPACE	X	
	B.	PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		X
	C.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	X	
	D.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X
8.		VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:		
	A.	MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X
	B.	PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X
	C.	SIZE AND LOCATION OF STRUCTURAL MEMBERS		X
	D.	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X	
	E.	WELDING OF REINFORCEMENT	X	
	F.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X
	G.	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	
	H.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	
	I.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	
9.		OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X	

VERIFICATION AND INSPECTION OF STEEL DECK (PER SDI QA/QC)

		VERIFICATION AND INSPECTION	OBSERVE	PERFORM
1.		▯ INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT (TABLE 1.1)	▯ ▯	
	A.	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS		X
	B.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		X
2.		▯ INSPECTION OR EXECUTION TASKS AFTER TO DECK PLACEMENT (TABLE 1.2)	▯ ▯	
	A.	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X
	B.	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X
	C.	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES		X
3.		▯ INSPECTION OR EXECUTION TASKS PRIOR TO WELDING (TABLE 1.3)	▯ ▯	
	A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	
	B.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	
	C.	MATERIAL IDENTIFICATION (TYPE/GRADE)	X	
	D.	CHECK WELDING EQUIPMENT	X	
4.		▯ INSPECTION OR EXECUTION TASKS DURING WELDING (TABLE 1.4)	▯ ▯	
	A.	USE OF QUALIFIED WELDERS	X	
	B.	CONTROL AND HANDLING OF WELDING CONSUMABLES	X	
	C.	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	X	
	D.	WPS FOLLOWED	X	
5.		▯ INSPECTION OR EXECUTION TASKS AFTER WELDING (TABLE 1.5)	▯ ▯	
	A.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS		X
	B.	WELDS MEET VISUAL ACCEPTANCE CRITERIA		X
	C.	VERIFY REPAIR ACTIVITIES		X
	D.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		X
6.		▯ INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING (TABLE 1.6)	▯ ▯	
	A.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	X	
	B.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	X	
	C.	PROPER STORAGE FOR MECHANICAL FASTENERS	X	
7.		▯ INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING (TABLE 1.7)	▯ ▯	
	A.	FASTENERS ARE POSITIONED AS REQUIRED	X	
	B.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	X	
8.		▯ INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING (TABLE 1.8)	▯ ▯	
	A.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS		X
	B.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS		X
	C.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS		X
	D.	VERIFY REPAIR ACTIVITIES		X
	E.	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		X

SPECIAL INSPECTION AND TESTS OF SOILS (IBC TABLE 1705.6) (WITHOUT GEOTECH REPORT)

	TYPE	CONTINUOUS	PERIODIC
1.	VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557.		X
2.	VERIFY THAT THE COMPACTED FILL ALLOWABLE BEARING PRESSURE IS NOT LESS THAN 1500 PSF.		X

SPECIAL INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3)

		TYPE	CONTINUOUS	PERIODIC
1.		OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.		
	A.	END CONNECTIONS - WELDING OR BOLTED		X
	B.	BRIDGING - HORIZONTAL OR DIAGONAL		
		1. STANDARD BRIDGING		X
		2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X

QUALITY ASSURANCE PROGRAM:

A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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phone: 208.569.5694
contact@ridgestructural.com

PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
08/08/2024

DATE	
08/08/2024	ADDENDUM 1

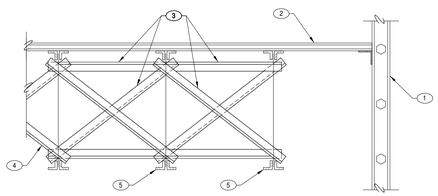
PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
GENERAL STRUCTURAL NOTES

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.2024
PERMIT SET
KBB Checked
#23029 PROJECT #

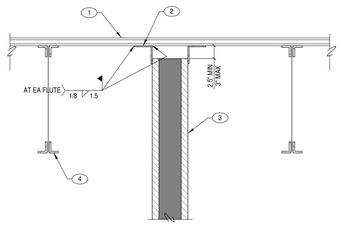
S1.1

KEYNOTES:
1. STEEL STUD WALL, NO BRIDGING ATTACHMENT
2. STEEL DECK
3. HORIZONTAL AND DIAGONAL BRIDGING IN LAST (2) BAYS ADJACENT TO STEEL STUD WALL
4. BRIDGING PER MANUFACTURERS RECOMMENDATION
5. STEEL JOIST

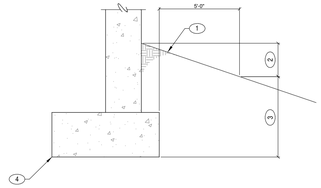


HORIZONTAL OR CROSS BRIDGING

KEYNOTES:
1. STEEL DECK
2. 14x4x1/4 x 12" LONG STEEL ANGLES AT 36" O.C. EACH SIDE OF MASONRY WALL
3. MASONRY WALL
4. STEEL JOIST

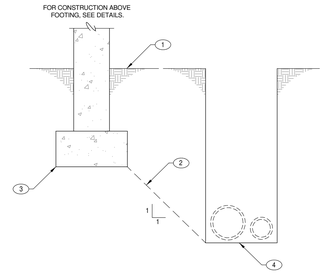


KEYNOTES:
1. SLOPED FINISH GRADE
2. MINIMUM FOOTING DEPTH PER GSN (12" MINIMUM)
3. DEEPEN FOOTING AS REQUIRED TO ACCOUNT FOR SLOPED GRADE
4. CONCRETE FOOTING



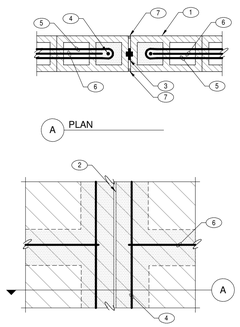
NOTES:
A. FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS

KEYNOTES:
1. FINISHED GRADE WHERE OCCURS
2. DO NOT EXCAVATE A TRENCH CLOSER THAN 45° ANGLE TO BELOW BOTTOM FOOTING OR FOUNDATION
3. BOTTOM OF CONCRETE FOOTING
4. BOTTOM OF TRENCH



NOTES:
A. DO NOT UNDERCUT EXISTING FOOTINGS
B. NO PIPE OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

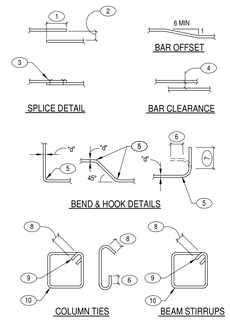
T12 TYPICAL JOIST BRIDGING ADJACENT TO STEEL STUDWALL
SCALE: NTS



KEYNOTES:
1. MASONRY WALL
2. CONTROL JOINT
3. CONTROL JOINT MATERIAL PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
4. A(1) VERTICAL BAR EACH SIDE IN SOLID GROUTED CELLS TO MATCH VERTICAL WALL REINFORCING
5. #3 x 32" LONG (16" EACH LEG) HAIRPIN AT HORIZONTAL BAR SPACING
6. TYPICAL HORIZONTAL BAR
7. EXTERIOR GRADE SEALANT OVER BACKER ROD

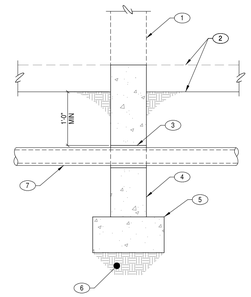
NOTES:
A. BOND BEAM BARS AT FLOOR AND ROOF LINES SHALL RUN CONTINUOUS THROUGH CONTROL JOINT

T8 TYPICAL INTERIOR MASONRY WALL PARALLEL W/ JOISTS (NON-BEARING)
SCALE: NTS



KEYNOTES:
1. LAP - SEE GSN FOR MASONRY AND TYPICAL DETAIL FOR CONCRETE REQUIREMENTS
2. MAXIMUM 1'5 LAP BUT NOT MORE THAN 6"
3. WIRE TIES
4. 1d (1" MINIMUM)
5. RADIUS = 3d FOR BARS NOT OVER #8; 4d FOR #9, #10, AND #11 BARS; 5d FOR #14 AND #18 BARS, 5d FOR ALL GRADE 40 BARS WITH 180° HOOK
6. 4D (4" MINIMUM)
7. 12d (90° HOOK)
8. 6d (4" MINIMUM)
9. 135° BEND
10. BEND AROUND 1 1/2" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 1 1/2" PIN FOR #5 BARS

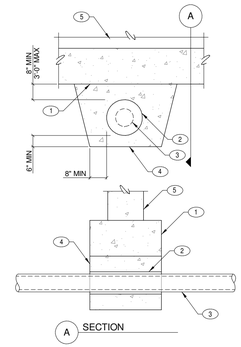
T4 TYPICAL DETAIL FOR FOUNDATION EMBEDMENT
SCALE: NTS



KEYNOTES:
1. WALL AS OCCURS, SEE PLAN
2. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
3. SLEEVE, 8" DIA MAX, PROVIDE 1/2" MINIMUM CLEARANCE AROUND PIPE/CONDUIT
4. CONCRETE WALL, SEE PLAN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. PIPE OR CONDUIT

NOTES:
A. XNO PIPE SHALL PASS THROUGH FOOTINGS OR UNDER COLUMN FOOTINGS. FOR ADDITIONAL INFORMATION SEE PLANS AND DETAILS
B. MULTIPLE PIPES/CONDUIT SLEEVES ALLOWED PROVIDED SLEEVES ARE SPACED W/ MINIMUM OF 2x SLEEVE DIAMETER BETWEEN SLEEVES
C. SLEEVES SHALL NOT OCCUR WITHIN 12" OF POINT LOADS OR HOLDOWN ANCHORS

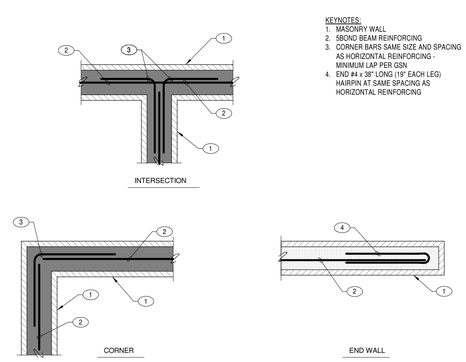
T1 TRENCH PARALLEL TO CONTINUOUS STRIP FOOTING
SCALE: NTS



KEYNOTES:
1. CONCRETE FOOTING
2. SLEEVE - PROVIDE 1/2" MINIMUM CLEARANCE AROUND PIPE OR CONDUIT
3. PIPE OR CONDUIT
4. CONCRETE FILL TO BE PLACED BEFORE FOOTING IS POURED - FORM SAME AS FOOTING AND POUR FULL WIDTH OF PIPE TRENCH
5. STEM WALL

NOTES:
A. NO PIPE SHALL PASS THRU FOOTING OR UNDER COLUMN FOOTINGS. FOR TRENCHES GREATER THAN 3'-6" BELOW BOTTOM OF FOOTING, SEE PIPE PASSING BELOW WALL FOOTING DETAIL.

T13 CONTROL JOINT IN MASONRY WALL
SCALE: NTS



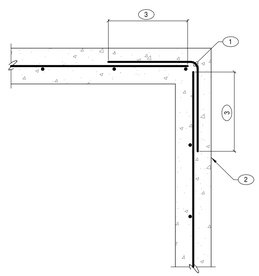
KEYNOTES:
1. MASONRY WALL
2. 5BOND BEAM REINFORCING
3. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING - MINIMUM LAP PER GSN
4. END #4 x 38" LONG (19" EACH LEG) HAIRPIN AT SAME SPACING AS HORIZONTAL REINFORCING

T9 TYPICAL REINFORCING DETAIL
SCALE: NTS

BAR SIZE	CLASS B TENSION SPLICE LENGTHS					
	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	HORIZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HORIZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HORIZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS
#3	12"	12"	12"	12"	12"	12"
#4	19"	15"	17"	13"	15"	12"
#5	29"	23"	26"	20"	23"	18"
#6	32"	25"	28"	21"	25"	19"
#7	54"	41"	47"	36"	42"	32"
#8	70"	54"	61"	47"	54"	42"
#9	89"	68"	77"	59"	69"	53"
#10	112"	87"	97"	75"	87"	67"

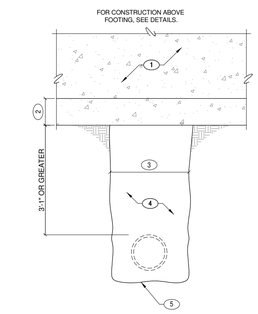
NOTES:
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT
2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS AND WALLS SHALL BE CLASS "B" TENSION LAP SPLICES.

T5 TYPICAL PIPE THROUGH STEM WALL
SCALE: NTS



KEYNOTES:
1. CORNER DOWELS TO MATCH HORIZONTAL REINFORCEMENT
2. CONCRETE WALL WITH REINFORCEMENT
3. LAP SPLICE PER TYPICAL STEEL REINFORCING LAP SPLICES IN CONCRETE DETAIL

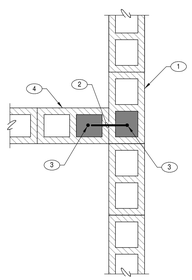
T2 PIPE PASSING UNDER WALL FOOTING IN SHALLOW TRENCH
SCALE: NTS



KEYNOTES:
1. STEM WALL
2. CONCRETE FOOTING
3. 1'-6" MAXIMUM (WHERE TRENCH EXCEEDS 1'-6" NOTIFY STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF FOOTINGS)
4. BACKFILL AND RECOMPACT TRENCH PER SOILS REPORT AND SPECIFICATIONS
5. BOTTOM OF TRENCH

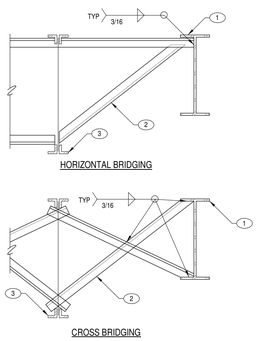
NOTES:
A. DO NOT UNDERCUT EXISTING FOOTINGS
B. NO PIPES OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

T14 PLAN - CORNER AND END REINFORCING IN MASONRY WALLS
SCALE: NTS



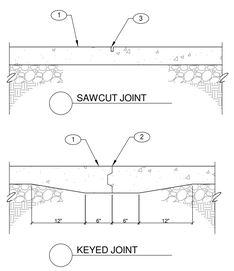
KEYNOTES:
1. MASONRY WALL
2. 1/2" DIA x 8" LONG SMOOTH DOWEL AT 48" O.C.
3. (1) VERTICAL BAR AT GROUTED CELLS AT END AND AT INTERSECTION OF WALLS
4. MASONRY PARTITION WALL (NON-BEARING) WHICH ABUTS CONTINUOUS MASONRY WALL AND IS NOT TOOTHED INTO IT

T10 STEEL REINFORCING LAP SPLICES IN CONCRETE
SCALE: NTS



KEYNOTES:
1. STEEL BEAM
2. BRIDGING PER MANUFACTURER'S RECOMMENDATIONS
3. STEEL JOIST

T6 TYPICAL CONCRETE CORNER
SCALE: NTS



KEYNOTES:
1. CONCRETE SLAB ON GRADE
2. CONTINUOUS KEYED JOINT
3. SAWCUT 1/8" WIDE x 1/4 SLAB THICKNESS IN DEPTH - CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE COMPLETE WITHIN 16 HOURS OF CONCRETE PLACEMENT.

NOTES:
A. KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS
B. "TOOL WET JOINT", "ZIP STRIP", ETC SHALL MATCH SAWCUT REQUIREMENTS

T3 PIPE PASSING BELOW FOOTING IN DEEP TRENCH
SCALE: NTS

T15 PLAN - MASONRY PARTITION WALL AT MASONRY WALL
SCALE: NTS

T11 TYPICAL JOIST BRIDGING DETAIL AT STEEL BEAM
SCALE: NTS

T7 CONTROL JOINTS IN CONCRETE SLAB ON GRADE
SCALE: NTS

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
08/08/2024

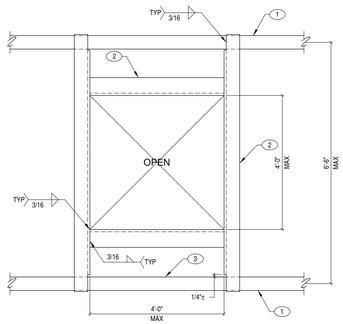
DATE	
08/08/2024	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
TYPICAL DETAILS

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

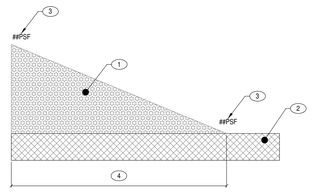
DATE: 7.15.2024
PERMIT SET | KBB Checked
#23029 PROJECT #

S1.2



KEYNOTES:
1. ROOF FRAMING MEMBER
2. ANGLE 4"x4"x1/4"
3. FACE OF FRAMING MEMBER

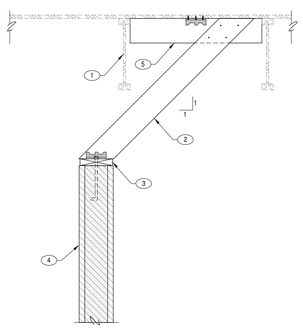
T24 PLAN - TYPICAL OPENING IN ROOF FRAMING
SCALE: NTS



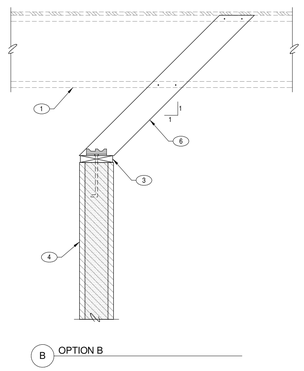
KEYNOTES:
1. SURCHARGE OR DRIFT SNOW LOAD AREA, SEE PLAN
2. BALANCED ROOF SNOW LOAD, SEE GSN
3. REQUIRED LOAD INCREASE, SEE PLAN
4. EXTENT OF SURCHARGE OR DRIFT LOAD, SEE PLAN

NOTES:
A. SURCHARGE AND DRIFT LOADS ARE IN ADDITION TO ROOF BALANCED SNOW LOAD

T25 TYPICAL ROOF SNOW SURCHARGE / DRIFT LOAD
SCALE: NTS



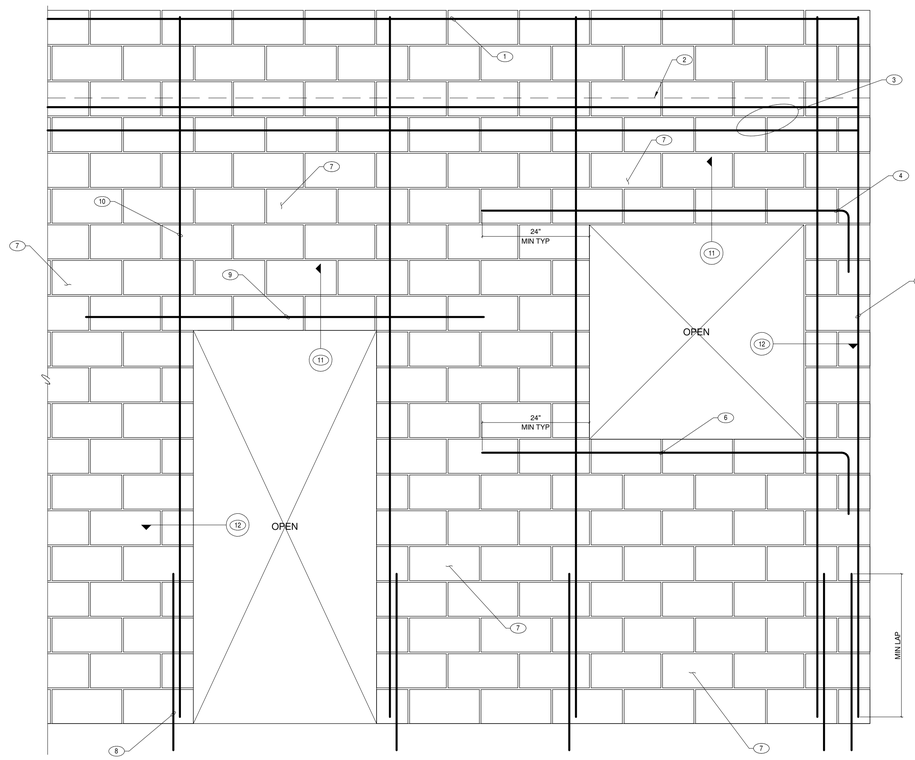
A OPTION A



B OPTION B

KEYNOTES:
1. EXISTING ROOF FRAMING
2. 2x6 KICKER SPACED AT 6'-0" O.C. (MAX) W/ (4) 16d NAILS INTO BLOCK AND (1) A35 CLIP AT PT PLATE
3. CONTINUOUS 2x PT PLATE W/ 5/8" DIA ANCHOR BOLTS AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
4. MASONRY WALL
5. 2x6 BLOCK AT EACH KICKER, ATTACH TO UNDERSIDE OF EXISTING ROOF SHEATHING W/ (1) A35 CLIP, CLIP INSTALLED USING 1/2" LONG SCREWS
6. 2x6 KICKER SPACED AT 6'-0" O.C. (MAX) W/ (4) 16d NAILS INTO EXISTING JOISTS AND (1) A35 CLIP AT PT PLATE

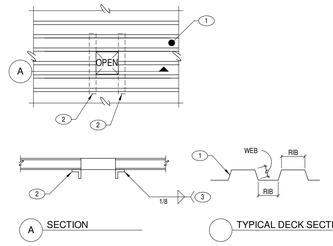
T26 TYPICAL INTERIOR MASONRY WALL (NON-BEARING)
SCALE: NTS



KEYNOTES:
1. 8" DEEP BOND BEAM W/ (1) #5 CONTINUOUS AT TOP OF PARAPET
2. ROOF LINE
3. 16" DEEP BOND BEAM W/ (2) #5 CONTINUOUS AT ROOF AND FLOOR LINES
4. PROVIDE 90° STANDARD HOOK WHERE LINTEL REINFORCING EXTENDS LESS THAN 24" BEYOND OPENING
5. TYPICAL CORNER OR JAMB VERTICAL BARS
6. PROVIDE (1) #5 HORIZONTAL BAR BELOW OPENINGS
7. TYPICAL WALL REINFORCING, SEE PLAN
8. FOUNDATION VERTICAL DOWEL, MATCH ALL VERTICAL WALL REINFORCING
9. LINTEL REINFORCING, SEE PLAN
10. FULL HEIGHT VERTICAL JAMB REINFORCING, SEE PLAN
11. SEE TYPICAL MASONRY LINTEL DETAIL
12. SEE TYPICAL MASONRY JAMB DETAIL

NOTES:
A. GROUT ALL CELLS CONTAINING REINFORCING, SEE PLAN FOR LOCATION OF WALLS REQUIRING FULL GROUTING
B. SPECIAL INSPECTION REQUIRED, SEE GSN
C. SEE PLAN AND CORRESPONDING DETAILS FOR LINTEL AND JAMB REINFORCING REQUIREMENTS

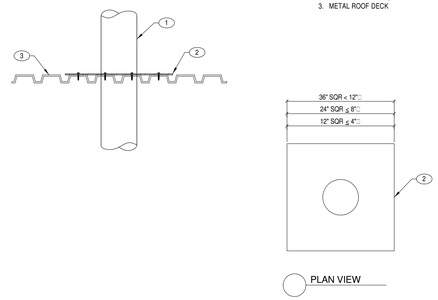
T19 TYPICAL MASONRY WALL REINFORCING AROUND OPENINGS - ELEVATION
SCALE: NTS



KEYNOTES:
1. STEEL DECK
2. ANGLE SUPPORT L2x2x3/16 BELOW DECK, ANGLE MAY BE PLACED ON TOP OF DECK W/ PRIOR APPROVAL OF ARCHITECT
3. WELD 2" AT EACH RIB, TYPICAL

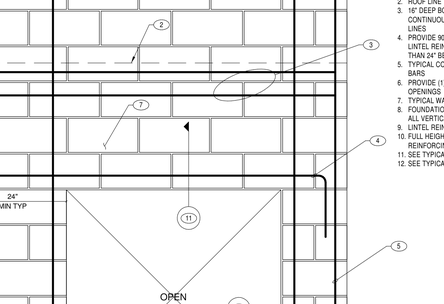
NOTES:
A. AN OPENING WHICH CUTS ONE WEB (4" MAX DIMENSION PERPENDICULAR TO RIBS), MAY BE CUT IN DECK WITHOUT AND SPECIAL REINFORCING
B. AN OPENING WHICH CUTS TWO WEB (8" MAX DIMENSION PERPENDICULAR TO RIBS), WILL REQUIRE ANGLE SUPPORT SHOWN ABOVE
C. ANY OPENING WHICH CUTS MORE THAN TWO WEBS, FRAME OPENING W/ TYPICAL ANGLE SUPPORT FRAME, SEE TYPICAL OPENING IN STEEL DECK DETAIL

T22 TYPICAL SMALL OPENING IN STEEL DECK
SCALE: NTS



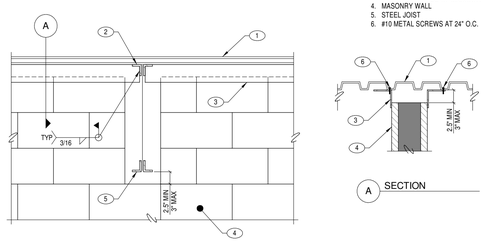
KEYNOTES:
1. PIPE SLEEVE
2. 18 GA PLATE W/ #10 SHEET METAL SCREWS AT 6" O.C., EACH WAY
3. METAL ROOF DECK

T23 TYPICAL PIPE SLEEVE THROUGH ROOF DECK
SCALE: NTS



KEYNOTES:
1. STEEL JOIST
2. FOR 'K' JOIST PROVIDE 1/8" WELD, FOR "LH" AND "DLH" PROVIDE 1/4" WELD
3. BASE PLATE OR STEEL FRAMING
4. WELD PER PLAN

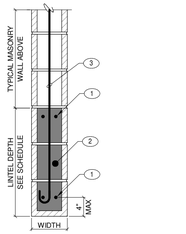
T20 TYPICAL STEEL JOIST ATTACHMENT
SCALE: NTS



KEYNOTES:
1. STEEL DECK
2. BOUNDARY ATTACHMENT
3. L4x4x1/4 STEEL ANGLES BETWEEN JOISTS EACH SIDE OF MASONRY WALL
4. MASONRY WALL
5. STEEL JOIST
6. #10 METAL SCREWS AT 24" O.C.

NOTES:
A. ALL OTHER FRAMING NOT SHOWN FOR CLARITY

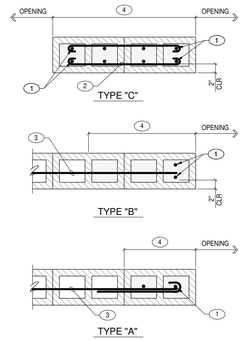
T21 TYPICAL INTERIOR MASONRY WALL PERPENDICULAR W/ JOISTS (NON-BEARING)
SCALE: NTS



KEYNOTES:
1. CONTINUE STANDARD WALL REINFORCING THROUGH THE MASONRY LINTEL
2. SOLID GROUT ALL LINTELS AND 2'-0" MIN INTO ADJACENT WALLS
3. TIES TO EXTEND AND HOOK BOTTOM LINTEL REINFORCEMENT
4. MASONRY LINTELS REINFORCEMENT, SEE SCHEDULE

NOTES:
A. SEE GSN FOR SPECIAL INSPECTION REQUIREMENTS OF MASONRY LINTELS
B. ANY BAR SPLICES SHALL HAVE A MINIMUM LENGTH OF 72 BAR DIA
C. PROVIDE 90° STANDARD HOOK WHERE HORIZONTAL REINFORCING DOES NOT EXTEND 2'-0" BEYOND OPENING

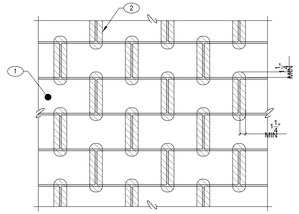
T16 TYPICAL MASONRY LINTEL
SCALE: NTS



KEYNOTES:
1. VERTICAL BAR
2. (2) #4 HORIZONTAL BARS AT 48" O.C. W/ HOOKS EACH END
3. TYPICAL HORIZONTAL BAR
4. JAMB LENGTH PER PLAN, SOLID GROUT

NOTES:
A. PROVIDE FOUNDATION VERTICAL DOWEL TO MATCH AND LAP W/ VERTICAL JAMB REINFORCING

T17 PLAN - TYPICAL MASONRY JAMB
SCALE: NTS



KEYNOTES:
1. MASONRY WALL
2. ANCHOR INSTALLATION NOT ALLOWED IN HATCHED AREAS, TYPICAL

T18 POST-INSTALLED ANCHORS IN MASONRY WALLS
SCALE: NTS

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
08/08/2024

DATE	
08/08/2024	ADDENDUM 1

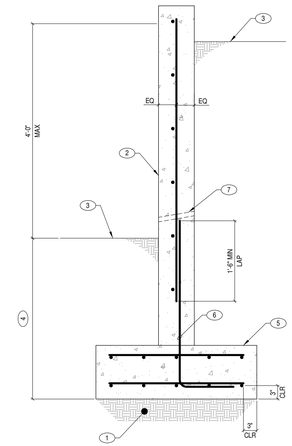
PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
TYPICAL DETAILS

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.2024
PERMIT SET
KBB
Checked
#23029
PROJECT #

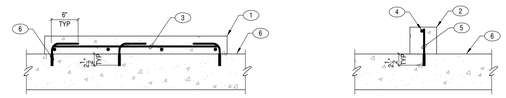
S1.3

KEYNOTES:
1. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
2. 8" THICK CONCRETE WALL W/ #4 AT 18" O.C. VERTICAL AND #4 AT 12" O.C. HORIZONTAL
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER CIVIL
4. MINIMUM FOOTING DEPTH, 24"
5. 36" WIDE x 12" THICK FOOTING W/ (5) #4 CONT AND #4 AT 18" O.C. TRANSVERSE, TOP AND BOTTOM
6. HOOKED DOWEL TO MATCH WALL VERTICAL REINFORCING
7. 2" DIA WEEP HOLES AT 6'-0" O.C. MAX SPACING



T27 **TYPICAL SITE RETAINING WALL 4'-0"**
SCALE: NTS

KEYNOTES:
1. HOUSE KEEPING PAD
2. CONCRETE CURB
3. #3 AT 12" O.C.
4. (1) #4 CONTINUOUS
5. #3 DOWEL AT 12" O.C., DRILL AND EPOXY INTO CONCRETE BELOW
6. #3 DOWEL AT 12" O.C. AT PERIMETER AND 8'-0" O.C. EACH WAY AT INTERIOR OF PAD



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T28 **TYPICAL HOUSEKEEPING PAD**
SCALE: NTS

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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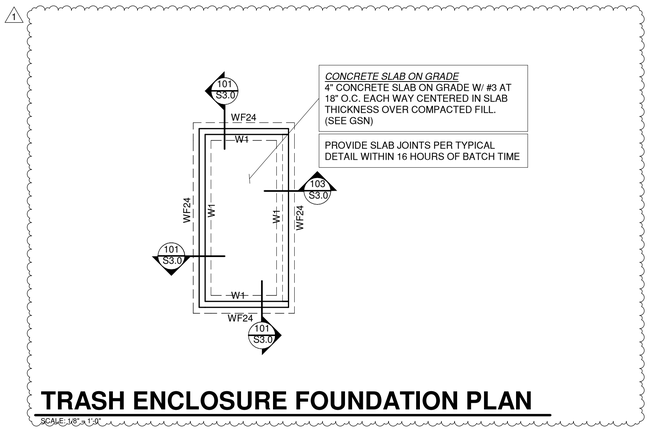
#23029 PROJECT #

S1.4



TRASH ENCLOSURE FOUNDATION PLAN

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

WALL (W) SCHEDULE

TYPE	MATERIAL	THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	CONCRETE	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	---
W2	MASONRY	8"	#5 AT 32" O.C.	(2) #4 AT 48" O.C.	SOLID GROUTED
W3	MASONRY	6"	#5 AT 32" O.C.	#5 AT 48" O.C.	SOLID GROUTED

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	REMARKS
F36	36"	36"	10"	(4) #4 EACH WAY BOTTOM	---
F42	42"	42"	10"	(5) #4 EACH WAY BOTTOM	---
F48	48"	48"	10"	(4) #5 EACH WAY BOTTOM	---
WF24	CONT	24"	12"	(3) #4 CONT BOTTOM	STRIP FOOTING

MASONRY JAMB (MJ) SCHEDULE

SEE TYPICAL JAMB DETAIL FOR ADDITIONAL INFORMATION

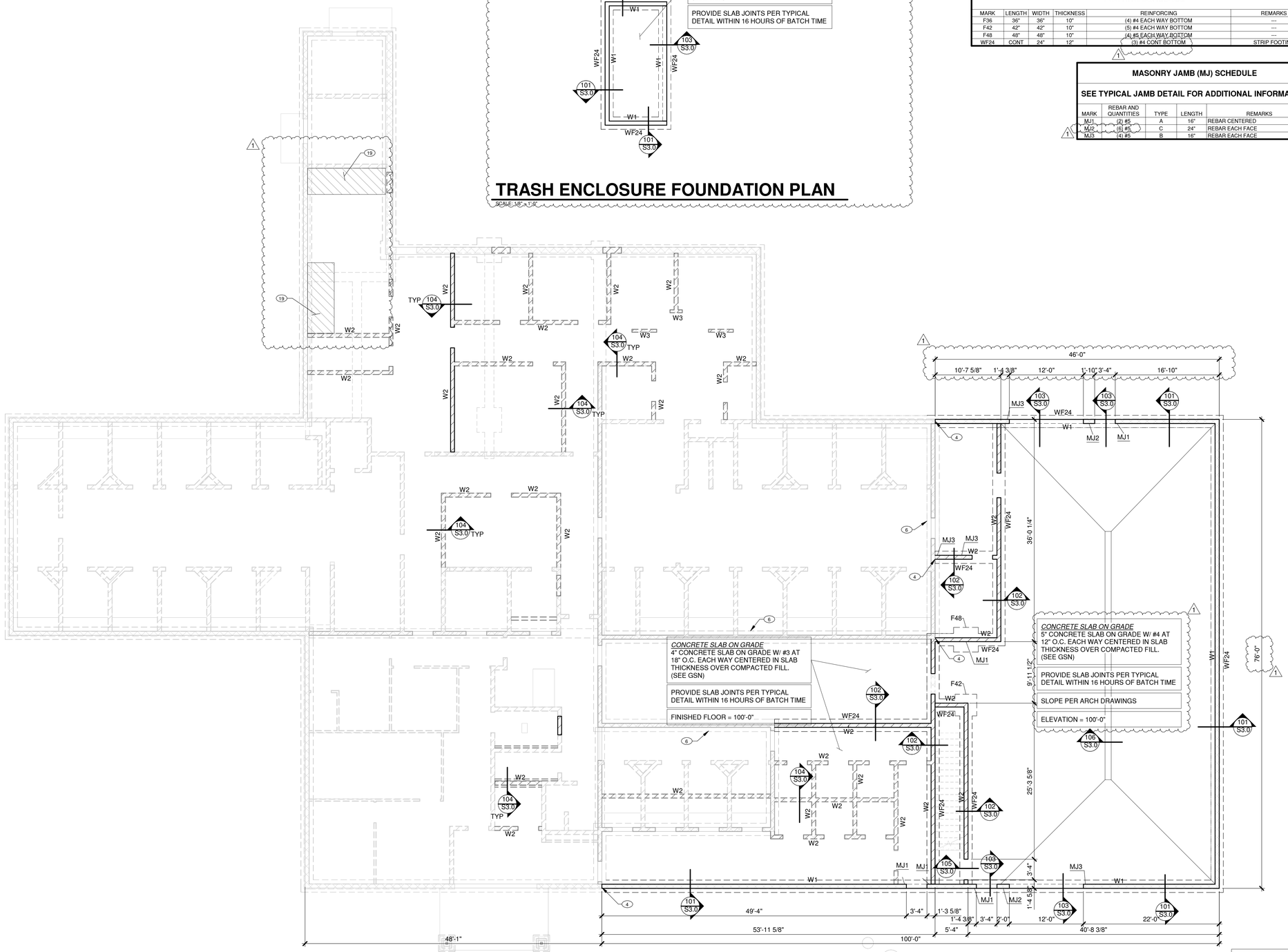
MARK	REBAR AND QUANTITIES	TYPE	LENGTH	REMARKS
MJ1	(2) #5	A	16"	REBAR CENTERED
MJ2	(6) #5	C	24"	REBAR EACH FACE
MJ3	(4) #5	B	16"	REBAR EACH FACE

FOUNDATION PLAN NOTES

A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
B. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
C. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
D. W1, W2, ETC. - AS SHOWN ON PLAN INDICATES CONCRETE OR MASONRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.
E. WF18, WF24, ETC. - AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
F. F36, F48, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
G. MJ1, MJ2, ETC. - AS SHOWN ON PLAN INDICATES A MASONRY JAMB. SEE JAMB SCHEDULE FOR ADDITIONAL INFORMATION.
H. FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
I. TYPICAL TOP OF CONCRETE WALL = 100'-0"
J. TYPICAL TOP OF EXTERIOR FOOTING = 98'-0"
K. TYPICAL TOP OF INTERIOR FOOTING = 99'-4"

KEYNOTES

X	
4	DRILL AND EPOXY REBAR INTO EXISTING FOUNDATION W/ 4" MINIMUM EMBEDMENT
6	CONTRACTOR TO VERIFY MINIMUM EXISTING FOOTING SIZE OF 24" WIDE. CONTACT STRUCTURAL ENGINEER IF FOOTING IS SMALLER.
19	HOUSEKEEPING PAD, SEE TYPICAL DETAIL. VERIFY EXACT DIMENSIONS W/ MECHANICAL/ARCHITECTURAL DRAWINGS



FOUNDATION PLAN

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

NORTH

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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2515 Wright Ave, Twin Falls, ID 83301
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DATE: 7.15.2024
PERMIT SET KBB
Checked
#23029
PROJECT #

S2.0

WALL (W) SCHEDULE

TYPE	MATERIAL	THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	CONCRETE	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	---
W2	MASONRY	8"	#5 AT 32" O.C.	(2) #4 AT 48" O.C.	SOLID GROUTED
W3	MASONRY	6"	#5 AT 32" O.C.	#5 AT 48" O.C.	SOLID GROUTED

KEYNOTES

X	
1	NEW OPENING IN EXISTING WALL
2	BRACE TOPS OF NON-BEARING MASONRY WALL PER TYPICAL DETAIL (TYPICAL)
3	MASONRY INFILL IN EXISTING OPENING. WALL REINFORCING TO BE #4 AT 32" O.C. VERTICAL AND #4 AT 48" O.C. HORIZONTAL. EPOXY NEW REBAR INTO EXISTING WALLS W/ 4" EMBEDMENT, SOLID GROUT WALL
5	DRILL AND EPOXY NEW WALL HORIZONTAL REINFORCEMENT INTO EXISTING W/ 5" EMBEDMENT
7	ATTACH BEAM TO BEAM W/ HU3.25/12 FACE-MOUNT HANGER
8	BEAMS ATTACH TO POST W/ SIMPSON PC4Z/EPC4Z POST CAP. ATTACH POST TO WALL BELOW W/ ABU44Z POST BASE INSTALLED W/ (1) 5/8" DIA. x 5" SCREW ANCHOR.
9	ATTACH BEAM TO WALL W/ HU3.25/12 HANGER INSTALLED USING (24) 1/4" DIA. x 2 3/4" TITEN TURBO SCREWS
10	BEAMS ATTACH TO POST W/ SIMPSON PC6Z POST CAP. ATTACH POST TO WALL BELOW W/ ABU66Z POST BASE INSTALLED W/ (1) 5/8" DIA. x 5" SCREW ANCHOR.
11	BEAM ATTACHED TO WALL W/ HGUMS.25-SDS HANGER ATTACHED TO WALL W/ (8) 5/8" DIA. x 5" TITEN HD ANCHORS. WALL TO BE SOLID GROUTED AT LOCATION OF HANGER
12	BEAMS ATTACH TO POST W/ SIMPSON EPC6Z POST CAP. ATTACH POST TO WALL BELOW W/ ABU66Z POST BASE INSTALLED W/ (1) 5/8" DIA. x 5" SCREW ANCHOR.
13	HANG EXISTING BEAM FROM NEW BEAM W/ MGU5.50-SDS FACE-MOUNT HANGER
14	ATTACH BEAM TO TOP OF EXISTING WALL W/ SIMPSON ABU88Z POST BASE INSTALLED USING (2) 5/8" DIA. x 5" SCREW ANCHORS
15	JOIST MANUFACTURER TO DESIGN JOISTS FOR DRIFTING SNOW LOAD FOR LENGTH AND MAGNITUDE SHOWN. SEE TYPICAL DETAIL
16	NEW ROOF ACCESS HATCH., SEE ARCH
17	BLOCKOUT AT TOP OF NEW MASONRY WALL FOR DUCT PASSAGE. COORDINATE REQUIRED SIZE W/ MECHANICAL DRAWINGS
18	PROVIDE ANGLE FRAME BELOW RTU, SEE TYPICAL DETAIL. EXACT LOCATION OF UNIT TO BE COORDINATED BY CONTRACTOR
20	PROVIDE BLOCKING PER ROOF OPENING TYPICAL DETAIL. SHIFT OPENING AS NEEDED SO THAT ONLY (1) ROOF JOIST IS CUT
21	PROVIDE 4x6 BLOCKING W/ HUS46TF HANGERS EACH END BELOW PERIMETER OF ROOFTOP UNIT AND AROUND ANY ROOF PENETRATIONS
22	NOTIFY ENGINEER WHEN JOISTS ARE EXPOSED FOR ANALYSIS OF EXISTING JOIST SUPPORTING RME
23	SIMPSON ITS3.56/11.88 TOP FLANGE HANGER
24	ARCH TO COORDINATE WITH MECHANICAL OVER POTENTIAL FRAMING CONFLICTS
25	NOTIFY ENGINEER OF JOIST DIMENSIONS FOR SIZE OF HANGER

STEEL JOIST (SJ) SCHEDULE

MARK	STEEL JOIST JOIST	JOIST SPACING (O.C.)
SJ1	18K 270/150	6'-0"
SJ2	30K 270/150	6'-0"
SJ3	2.5K3	6'-0"

POST (P) SCHEDULE

MARK	SIZE	SPECIES AND GRADE	CONNECTION
P1	6x6	DOUG FIR NO. 2	SEE KEYNOTES
P2	4x4	DOUG FIR NO. 2	SEE KEYNOTES

BEAM (B) SCHEDULE

MARK	SIZE
B1	3 1/8x12 GLB
B2	5 1/8x16 1/2 GLB
B3	6 3/4x16 1/2 GLB
B4	(2) 1 3/4x18 LVL

MASONRY LINTEL (ML) SCHEDULE

MARK	SIZE	LONGUITUDINAL REINFORCING	VERTICAL TIES
ML1	16" DEEP	(2) #5 BARS TOP AND BOTTOM	MATCH WALL REINFORCING
ML2	16" DEEP	(1) #5 BARS TOP AND BOTTOM	MATCH WALL REINFORCING
ML3	30" DEEP	(2) #5 BARS TOP AND BOTTOM	MATCH WALL REINFORCING
ML4	48" DEEP	(2) #5 BARS TOP AND BOTTOM	#5 AT 8" O.C.

MASONRY JAMB (MJ) SCHEDULE

SEE TYPICAL JAMB DETAIL FOR ADDITIONAL INFORMATION

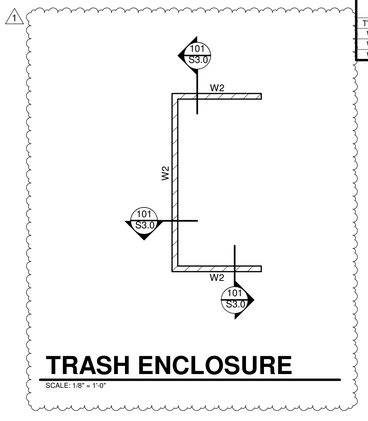
MARK	REBAR AND QUANTITIES	TYPE	LENGTH	REMARKS
MJ1	(2) #5	A	16"	REBAR CENTERED
MJ2	(6) #5	C	24"	REBAR EACH FACE
MJ3	(4) #5	B	16"	REBAR EACH FACE

ROOF FRAMING PLAN NOTES

A. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
B. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
C. B1, B2, ETC. - AS SHOWN ON PLAN INDICATES A BEAM OR HEADER. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
D. P1, P2, ETC. AS SHOWN ON PLAN INDICATES A WOOD POST. SEE POST SCHEDULE FOR MORE INFORMATION.
E. W1, W2, ETC. - AS SHOWN ON PLAN INDICATES CONCRETE OR MASONRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.
F. ML1, ML2, ETC. - AS SHOWN ON PLAN INDICATES A MASONRY LINTEL. SEE LINTEL SCHEDULE FOR ADDITIONAL INFORMATION.
G. MJ1, MJ2, ETC. - AS SHOWN ON PLAN INDICATES A MASONRY JAMB. SEE JAMB SCHEDULE FOR MORE INFORMATION.
H. SJ1, SJ2, ETC. - AS SHOWN ON PLAN INDICATES A STEEL JOIST. SEE STEEL JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
I. CJ - AS SHOWN ON PLAN INDICATES A CONTROL JOINT IN A CONCRETE OR MASONRY WALL. SEE GSN AND TYPICAL DETAIL. JOINTS MAY BE SHOWN, BUT NOT NOTED ON THIS PLAN. SEE FOUNDATION PLAN FOR NOTED LOCATIONS.
J. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
K. FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON THE ROOF FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
L. VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL DRAWINGS.
M. ALL "K" TYPE JOISTS SHALL HAVE A SHOE DEPTH OF 2 1/2". THE JOIST MANUFACTURER SHALL DESIGN ALL JOISTS AND THE SHOES FOR AN AXIAL TENSION (T) OR COMPRESSION (C) LOAD OF 1500# (ASD) DUE TO OUT-OF-PLANE LOADS, UNLESS LARGER LOAD IS INDICATED ON PLANS.
N. THE JOIST MANUFACTURER SHALL DESIGN ALL JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR THE NET UPLIFT WIND LOAD USING THE FOLLOWING UNFACTORED LOADS: DL = 20 PSF; WIND (a = 5.6 FT): ZONE 1 = -29.5 PSF, ZONE 2 = -39.9 PSF, ZONE 3 = -39.9 PSF
O. RME: INDICATES HVAC EQUIPMENT ON ROOF. SEE TYPICAL DETAILS FOR FRAMING INFORMATION.

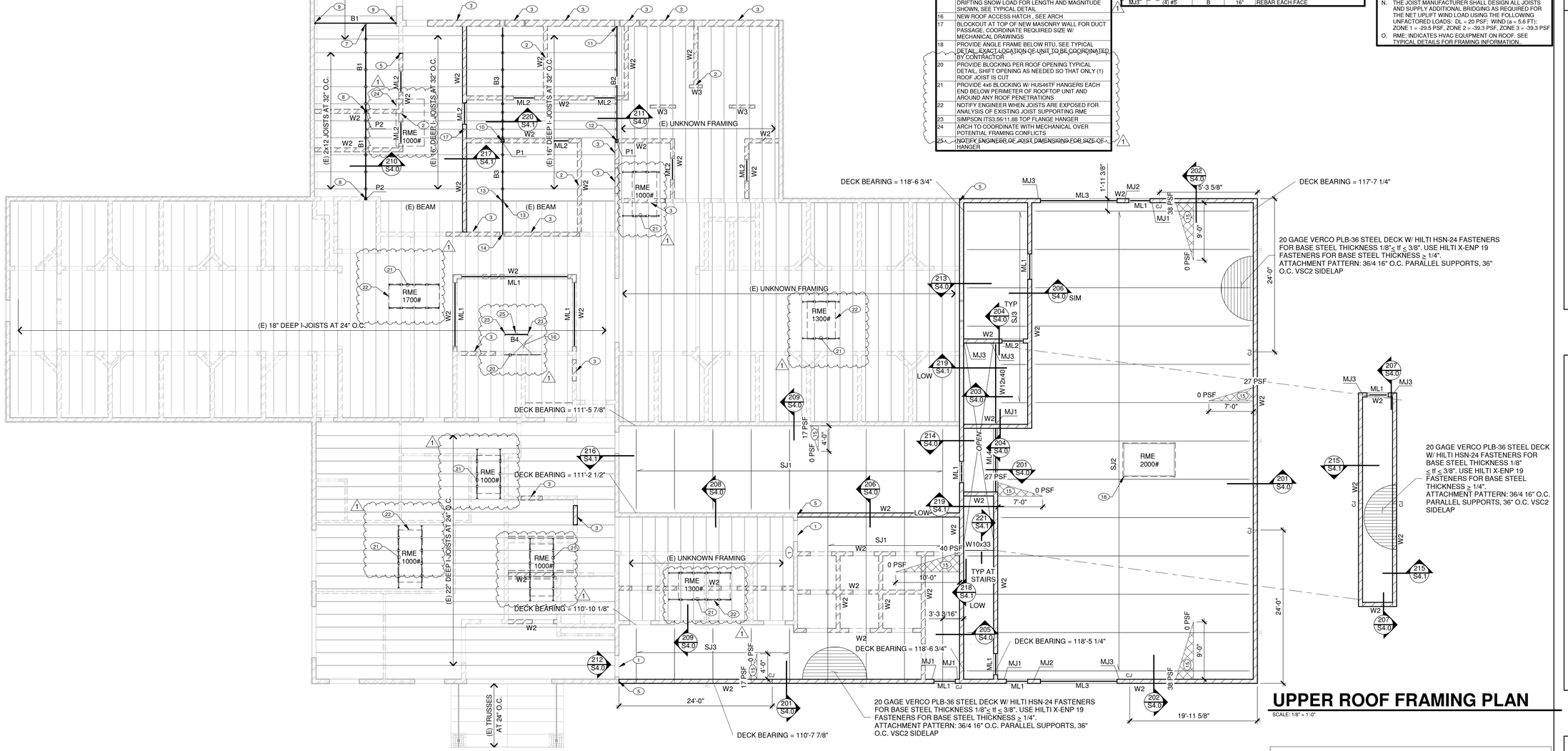
TRASH ENCLOSURE

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



ROOF FRAMING PLAN

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



UPPER ROOF FRAMING PLAN

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

PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER 08/08/2024

DATE	
08/08/2024	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
ROOF FRAMING PLAN

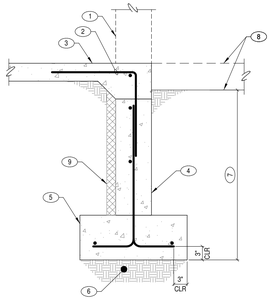
Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.2024
PERMIT SET
KBB Checked
#23029 PROJECT #

S2.1

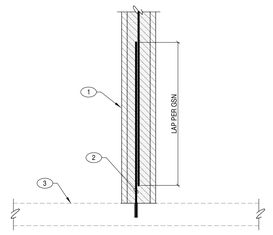
JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

Ridge Structural Engineering
1152 Bond Avenue, Suite B
Rexburg, ID 83440
phone: 208.569.5694
contact@ridgestructural.com



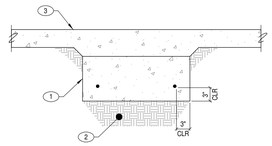
KEYNOTES:
1. WALL BEYOND, SEE PLAN
2. #4 BENT DOWEL AT 18" O.C.
   18"
   18"
3. CONCRETE SLAB ON GRADE, SEE PLAN
4. CONCRETE WALL, SEE PLAN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. MINIMUM FOOTING DEPTH, SEE GSN
8. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
9. RIGID INSULATION PER ARCH

103 CONCRETE SLAB AT FOUNDATION
SCALE: NTS



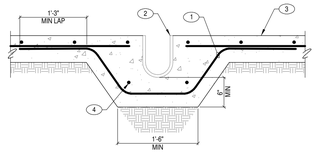
KEYNOTES:
1. MASONRY WALL, SEE PLAN
2. #5 DOWEL DRILLED AND EPOXIED INTO EXISTING SLAB W/ 3" MIN EMBEDMENT
3. EXISTING CONCRETE SLAB ON GRADE

104 MASONRY WALL AT EXISTING SLAB ON GRADE
SCALE: NTS



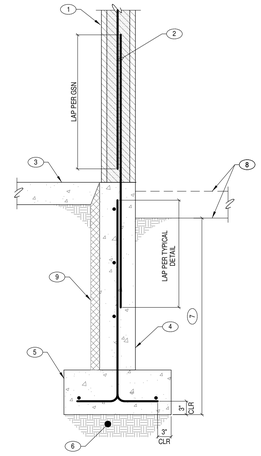
KEYNOTES:
1. CONCRETE FOOTING, SEE PLAN
2. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
3. CONCRETE SLAB ON GRADE, SEE PLAN

105 CONCRETE SLAB AT FOUNDATION
SCALE: NTS



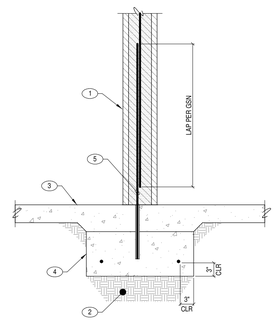
KEYNOTES:
1. #3 BENT DOWEL AT 18" O.C.
2. TRENCH DRAIN, SEE ARCHITECTURAL DRAWINGS
3. CONCRETE SLAB ON GRADE, SEE PLAN
4. (2) #4 HORIZONTAL BARS BELOW TRENCH DRAIN

106 TRENCH DRAIN IN CONCRETE SLAB
SCALE: NTS



KEYNOTES:
1. MASONRY WALL, SEE PLAN
2. DOWEL TO MATCH VERTICAL MASONRY WALL REINFORCING SIZE AND SPACING
3. CONCRETE SLAB ON GRADE, SEE PLAN
4. CONCRETE WALL, SEE PLAN
5. CONCRETE FOOTING, SEE PLAN
6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
7. MINIMUM FOOTING DEPTH, SEE GSN
8. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
9. RIGID INSULATION PER ARCH

101 MASONRY WALL AT FOUNDATION
SCALE: NTS



KEYNOTES:
1. MASONRY WALL, SEE PLAN
2. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
3. CONCRETE SLAB ON GRADE, SEE PLAN
4. CONCRETE FOOTING, SEE PLAN
5. DOWEL TO MATCH VERTICAL MASONRY WALL REINFORCING SIZE AND SPACING, EPOXY DOWEL AT FOOTING W/ 6" MIN EMBEDMENT INTO FOOTING, SEE PLAN

102 MASONRY WALL AT FOUNDATION
SCALE: NTS

JOB NO.: 24.145	PROJECT MANAGER: JJ	CAD OPERATOR: GTC

Ridge Structural Engineering
1152 Bond Avenue, Suite B
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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
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TWIN FALLS COUNTY - WRIGHT AVE JAIL
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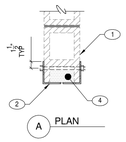
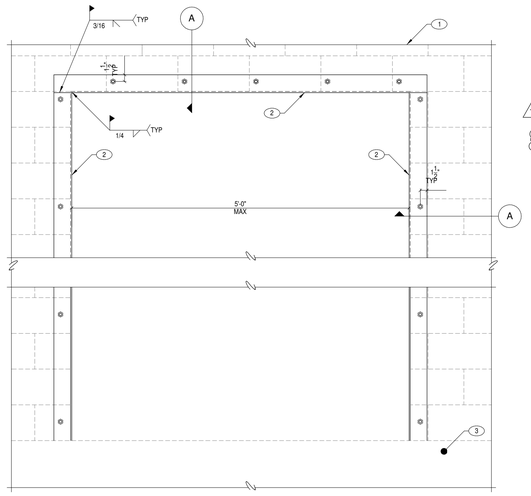
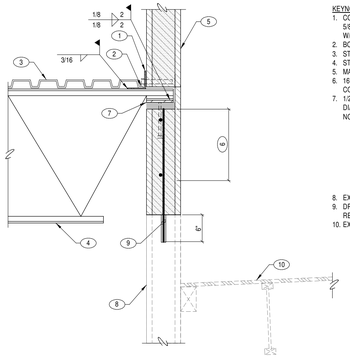


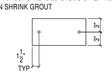
KEYNOTES:
1. EXISTING MASONRY WALL
2. L4x4x1/4 EACH SIDE W/ 5/8" DIA THROUGH BOLTS AND WASHERS AT 24" O.C.
3. EXISTING CONCRETE WALL STRUCTURE
4. GROUT UNGROUTED CELLS AROUND PERIMETER OF NE OPENING



1 **212** NEW DOOR OPENING IN EXISTING MASONRY WALL
SCALE: NTS

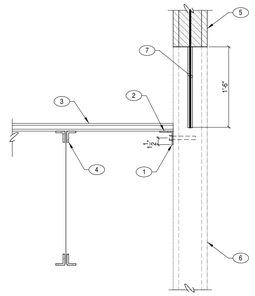


KEYNOTES:
1. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 5/8" DIA CONCRETE ANCHOR AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. 16" DEEP BOND BEAM W/ (2) #5 BARS CONTINUOUS
7. 1/2" x 6" x 1'-0" BEARING PLATE W/ (2) 5/8" DIA x 8" LONG HEADED STUDS ON ±1 1/2" NON SHRINK GROUT



8. EXISTING MASONRY WALL
9. DRILL AND EPOXY NEW WALL VERTICAL REBAR INTO EXISTING WALL
10. EXISTING ROOF FRAMING

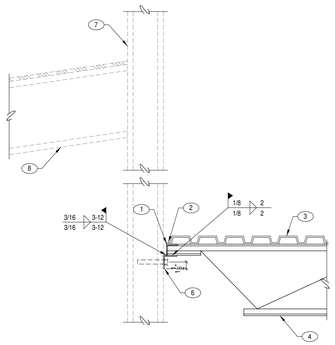
1 **213** STEEL JOIST AT MASONRY WALL
SCALE: NTS



KEYNOTES:
1. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 3/4" DIA X 6" SCREW ANCHOR AT 32" O.C.
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. EXISTING MASONRY WALL
7. DRILL AND EPOXY NEW WALL VERTICAL REBAR INTO EXISTING WALL. NEW VERTICAL BAR MUST BE INSTALLED IN SAME CELL AS EXISTING WALL VERTICAL BAR

NOTES:
A. SCREW ANCHORS MUST BE INSTALLED INTO GROUTED MASONRY, CONTACT ENGINEER IF THIS CANNOT BE ACCOMPLISHED FOR FURTHER INSTRUCTION

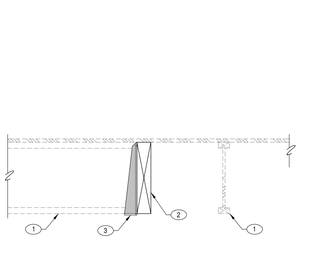
1 **214** STEEL JOIST AT EXISTING MASONRY WALL
SCALE: NTS



KEYNOTES:
1. CONTINUOUS L2 1/2x2 1/2x1/4 BETWEEN EACH JOIST
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. CONT L4x4x1/4 LEDGER ANGLE W/ 3/4" DIA x 6" TITEN HD MASONRY ANCHORS AT 16" O.C.
7. EXISTING MASONRY WALL
8. EXISTING ROOF FRAMING

NOTES:
A. SCREW ANCHORS MUST BE INSTALLED INTO GROUTED MASONRY, CONTACT ENGINEER IF THIS CANNOT BE ACCOMPLISHED FOR FURTHER INSTRUCTION

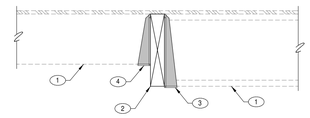
1 **208** STEEL JOIST AT EXISTING MASONRY WALL
SCALE: NTS



KEYNOTES:
1. CONTINUOUS L2 1/2x2 1/2x1/4 BETWEEN EACH JOIST
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. EXISTING MASONRY WALL
7. EXISTING ROOF JOIST

NOTES:
A. SCREW ANCHORS MUST BE INSTALLED INTO GROUTED MASONRY, CONTACT ENGINEER IF THIS CANNOT BE ACCOMPLISHED FOR FURTHER INSTRUCTION

1 **209** STEEL JOIST AT EXISTING MASONRY WALL
SCALE: NTS

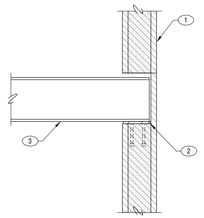


KEYNOTES:
1. EXISTING ROOF FRAMING
2. WOOD BEAM, SEE PLAN
3. HANG EXISTING JOIST TO NEW WOOD BEAM W/ IUS2.37/16 FACE MOUNT HANGER, CONTRACTOR TO VERIFY JOIST DIMENSION
4. HANG EXISTING WOOD JOIST TO NEW WOOD BEAM W/ LUS210 HANGER

1 **210** EXISTING ROOF JOIST AT WOOD BEAM
SCALE: NTS

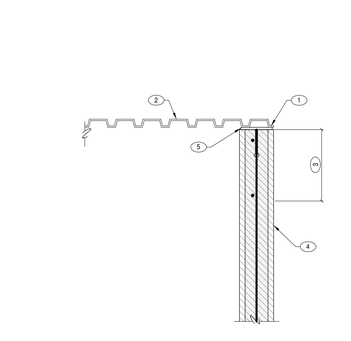
KEYNOTES:
1. EXISTING ROOF FRAMING
2. WOOD BEAM, SEE PLAN
3. HANG EXISTING JOIST TO NEW WOOD BEAM W/ IUS2.37/16 TOP FLANGE HANGER, CONTRACTOR TO VERIFY JOIST DIMENSION

1 **211** WOOD JOIST AT WOOD BEAM
SCALE: NTS



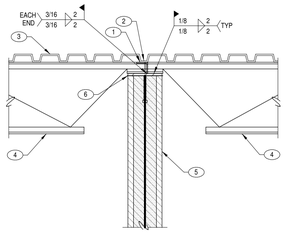
KEYNOTES:
1. MASONRY WALL, SEE PLAN
2. 1/2" x 8" x 0'-8" STEEL EMBED PLATE W/ (4) 7/8Ø x 6" LONG HEADED STUDS
3. STEEL BEAM, SEE PLAN

1 **204** STEEL BEAM AT MASONRY WALL
SCALE: NTS

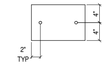


KEYNOTES:
1. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 5/8" DIA CONCRETE ANCHOR AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. 14" DEEP BOND BEAM W/ (2) #5 BARS CONTINUOUS
7. 16" DEEP BOND BEAM W/ (2) #5 BARS CONTINUOUS
8. 1/2" x 6" x 1'-0" BEARING PLATE W/ (2) 5/8" DIA x 8" LONG HEADED STUDS ON ±1 1/2" NON SHRINK GROUT

1 **205** STEEL JOIST AT MASONRY WALL
SCALE: NTS



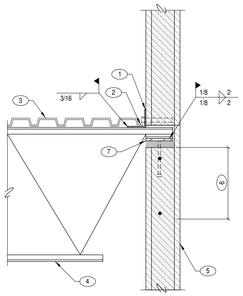
KEYNOTES:
1. CONTINUOUS L2 1/2x2 1/2x1/4 BETWEEN EACH JOIST
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. 1/2" x 8" x 1'-0" BEARING PLATE W/ (2) 5/8 " DIA x 6" LONG HEADED STUDS



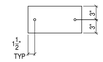
1 **206** STEEL JOIST AT MASONRY WALL
SCALE: NTS

KEYNOTES:
1. BOUNDARY ATTACHMENT, SEE PLAN
2. STEEL DECK, SEE PLAN
3. CONT 16" DEEP (MIN) SOLID GROUTED BOND BEAM W/ #5 BARS CONTINUOUS
4. MASONRY WALL, SEE PLAN
5. CONTINUOUS 1/2" x 7" WIDE EMBED PLATE W/ 5/8" DIA x 6" LONG HEADED STUDS AT 32" O.C.

1 **207** STEEL DECK AT MASONRY WALL
SCALE: NTS



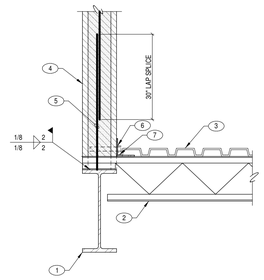
KEYNOTES:
1. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 5/8" DIA CONCRETE ANCHOR AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. 16" DEEP BOND BEAM W/ (2) #5 BARS CONTINUOUS
7. 1/2" x 6" x 1'-0" BEARING PLATE W/ (2) 5/8" DIA x 8" LONG HEADED STUDS ON ±1 1/2" NON SHRINK GROUT



1 **201** STEEL JOIST AT MASONRY WALL
SCALE: NTS

KEYNOTES:
1. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 5/8" DIA SCREW ANCHOR AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. MASONRY WALL, SEE PLAN
6. 16" DEEP BOND BEAM W/ (2) #5 BARS CONTINUOUS

1 **202** STEEL JOIST AT MASONRY WALL
SCALE: NTS



KEYNOTES:
1. STEEL BEAM, SEE PLAN
2. STEEL JOIST, SEE PLAN
3. STEEL DECK, SEE PLAN
4. MASONRY WALL, SEE PLAN
5. #5 x 48" LONG WELDABLE REBAR AT 32" O.C.
6. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 5/8" DIA CONCRETE ANCHOR AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
7. BOUNDARY ATTACHMENT, SEE PLAN

1 **203** STEEL JOIST AT STEEL BEAM
SCALE: NTS

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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08/08/2024

DATE	
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2515 Wright Ave, Twin Falls, ID 83301
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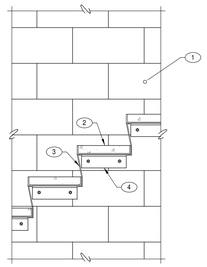
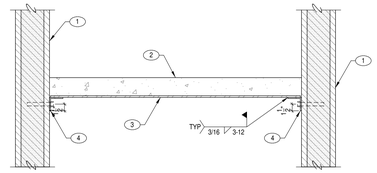


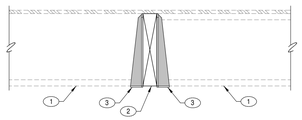
KEYNOTES:
1. MASONRY WALL, SEE PLAN
2. 2" THICK CONCRETE TREADS
3. 12 GAUGE STEEL RISER PLATE AND TREAD PLATE
4. L3x3x3/16 ANGLE W/ (2) 3/8" DIA x 3" SCREW ANCHORS

218 STAIR TREAD AT MASONRY WALL
SCALE: NTS



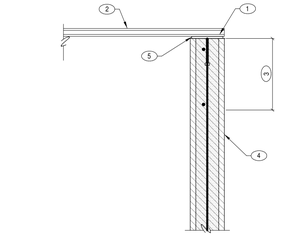
KEYNOTES:
1. MASONRY WALL, SEE PLAN
2. 4" THICK CONCRETE SLAB REINFORCED W/ #3 BARS AT 12" O.C. EACH WAY, CENTERED IN SLAB THICKNESS
3. 3/8" THICK STEEL PLATE
4. CONTINUOUS L3x3x1/4 STEEL LEDGER ANGLE W/ 3/4" DIA x 6" LONG TITEN MASONRY ANCHORS AT 8" O.C

219 STAIR LANDING AT MASONRY WALL
SCALE: NTS



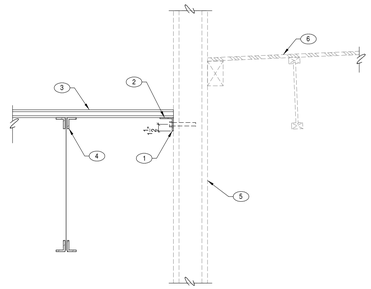
KEYNOTES:
1. EXISTING ROOF FRAMING
2. WOOD BEAM, SEE PLAN
3. HANG EXISTING JOIST TO NEW WOOD BEAM W/ IUS2.37/16 FACE MOUNT HANGER, CONTRACTOR TO VERIFY JOIST DIMENSION

220 EXISTING ROOF JOIST AT WOOD BEAM
SCALE: NTS



KEYNOTES:
1. BOUNDARY ATTACHMENT, SEE PLAN
2. STEEL DECK, SEE PLAN
3. CONT 16" DEEP (MIN) SOLID GROUTED BOND BEAM W/ #5 BARS CONTINUOUS
4. MASONRY WALL, SEE PLAN
5. CONTINUOUS 1/2" x 7" WIDE EMBED PLATE W/ 5/8" DIA x 6" LONG HEADED STUDS AT 32" O.C.

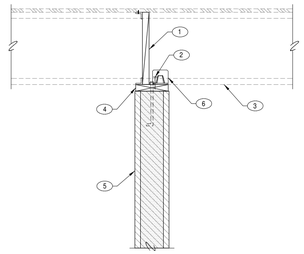
215 STEEL DECK AT MASONRY WALL
SCALE: NTS



KEYNOTES:
1. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 3/4" DIA x 6" SCREW ANCHOR AT 32" O.C.
2. BOUNDARY ATTACHMENT, SEE PLAN
3. STEEL DECK, SEE PLAN
4. STEEL JOIST, SEE PLAN
5. EXISTING MASONRY WALL
6. EXISTING ROOF FRAMING

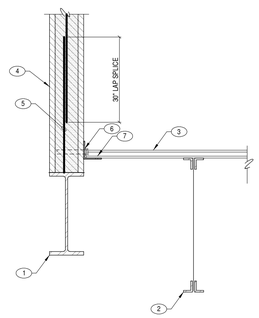
NOTES:
A. SCREW ANCHORS MUST BE INSTALLED INTO GROUTED MASONRY, CONTACT ENGINEER IF THIS CANNOT BE ACCOMPLISHED FOR FURTHER INSTRUCTION

1
216 STEEL JOIST AT EXISTING MASONRY WALL
SCALE: NTS



KEYNOTES:
1. NEW FULL-HEIGHT LSL BLOCKING BETWEEN EACH EXISTING JOIST W/ A35 CLIP TOP AND BOTTOM. TOP CLIP ATTACHED TO UNDERSIDE OF EXISTING ROOF SHEATHING USING 1/2" LONG SCREWS
2. (2) 10d NAILS AT EACH JOIST
3. EXISTING ROOF FRAMING
4. CONT 2x PT PLATE W/ 5/8" DIA ANCHOR BOLTS AT 32" O.C. W/ 5" MIN EMBEDMENT
5. MASONRY WALL, SEE PLAN
6. SIMPSON HGAM10 CLIP

1
217 EXISTING WOOD JOIST AT NEW MASONRY SHEARWALL
SCALE: NTS



KEYNOTES:
1. STEEL BEAM, SEE PLAN
2. STEEL JOIST, SEE PLAN
3. STEEL DECK, SEE PLAN
4. MASONRY WALL, SEE PLAN
5. #5 x 48" LONG WELDABLE REBAR AT 32" O.C.
6. CONTINUOUS L4x4x1/4 STEEL ANGLE W/ 5/8" DIA CONCRETE ANCHOR AT 32" O.C. W/ 5" MINIMUM EMBEDMENT
7. BOUNDARY ATTACHMENT, SEE PLAN

221 MASONRY WALL AT STEEL BEAM
SCALE: NTS

JOB NO.: 24.145 | PROJECT MANAGER: JJ | CAD OPERATOR: GTC

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PROFESSIONAL ENGINEER LICENSED 14134 STATE OF IDAHO DAVID B. PORTER
08/08/2024

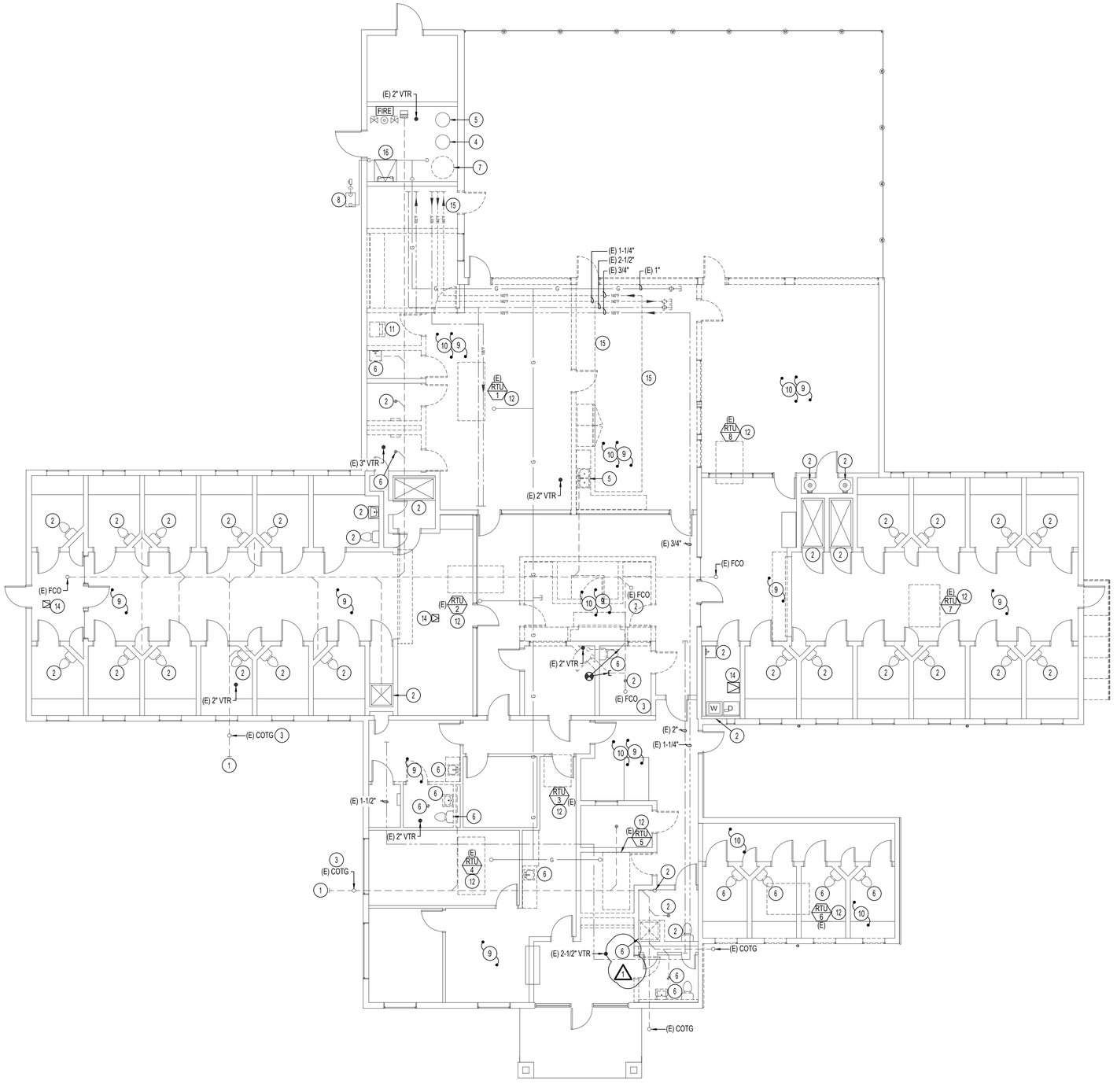
DATE	
08/08/2024	ADDENDUM 1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
FRAMING DETAILS

Laughlin Ricks Architecture
architecture/planning
134 3RD Ave East, * Twin Falls, Idaho 83301
(208) 736-8050

DATE: 7.15.2024
PERMIT SET | KBB Checked
#23029 PROJECT #

S4.1



PH 1 PART A DEMO PLUMBING FLOOR PLAN

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

North

PLUMBING LEGEND

SYMBOL	DESCRIPTION
V	VENT
VTR	VENT THRU ROOF
CO	CLEANOUT
WCO	WALL CLEANOUT
COTG	CLEANOUT TO GRADE
	PIPE DROP
	PIPE RISE
	BALL TYPE ISOLATION VALVE
	SOIL OR WASTE PIPING
	VENT LINE PIPING
	HARD COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HW RECIRC. PIPING
140°F	DOMESTIC 140°F HW PIPING
CD	CONDENSATE DRAIN LINE
G	NATURAL GAS PIPING
G	NATURAL GAS REGULATOR
GW	GREASE WASTE
	PRESSURE REDUCUING STATION
	CONNECTION/DISCONNECTION POINT

PLAN NOTES:

1. SEE SITE PLAN FOR CONTINUATION.
2. EXISTING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION. CONTRACTOR SHALL REPLACE ALL GASKETS/SEALS FOR ALL FIXTURES.
3. EXISTING CLEAN OUT TO REMAIN. PROTECT DURING CONSTRUCTION.
4. EXISTING WATER SOFTENER TO REMAIN. PROTECT DURING CONSTRUCTION.
5. EXISTING AIR COMPRESSOR SYSTEM TO REMAIN. PROTECT DURING CONSTRUCTION.
6. REMOVE EXISTING FIXTUREAND RETURN TO OWNER. CAP WASTE BELOW GRADE AND ABANDON. REMOVE AND DISPOSE OF BRANCH WATER AND VENT BACK TO MAIN AND ABANDON IF APPLICABLE.
7. PROVIDE AND INSTALL NEW WATER HEATER IN PLACE OF OLD. INSTALL WITH NEW BALL VALVE, FLEX PIPING, AND GAS CONNECTIONS. SECURE NEW WATER HEATER EXISTING WALL WITH ANCHOR STRAPS. SEE TYPICAL INSTALL DETAIL. CORRESPONDING TEMPER STATION TO REMAIN.
8. COORDINATE WITH LOCAL GAS COMPANY TO ACCOMMODATE 1,833,000 BTU/H AT 2 PSI OPERATING PRESSURE. REMOVE REGULATOR WITHIN MECHANICAL ROOM FOR 2PSI OPERATING PRESSURE THROUGHOUT THE BUILDING. FIELD VERIFY EXISTING CONDITIONS.
9. ALL EXISTING SPRINKLER HEADS WITHIN BUILDING TO BE REMOVED AND REPLACED WITH NEW TYCO / RAVEN INSTITUTIONAL HEADS. FIELD VERIFY EXISTING CONDITIONS.
10. RELOCATE EXISTING FIRE SPRINKLER HEAD LOCATIONS AS REQUIRED BY NFPA 13 REQUIREMENT FOR REMODELED AREA. ALL RELOCATED FIRE SPRINKLER HEADS TO BE NEW TYCO / RAVEN INSTITUTIONAL TYPE.
11. EXISTING DRYER TO BE REMOVED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. REMOVE, DISPOSE OF, AND CAP CORRESPONDING BRANCH GAS PIPING BACK TO MAIN. FIELD VERIFY EXISTING CONDITIONS DURING CONSTRUCTION.
12. ROOF TOP UNIT REPLACEMENT BY DIVISION 23. DISCONNECT GAS PIPING PRIOR TO REMOVAL. PROVIDE AND INSTALL NEW GAS CONNECTION AS PER DETAIL ON SHEET P1A-2.1.
13. NEW ROOF TOP UNIT BY DIVISION 23. PROVIDE AND INSTALL NEW GAS CONNECTION AS PER DETAIL ON SHEET P1A-2.1.
14. EXISTING CEILING ACCESS SECUIRTY PANEL.
15. EXISTING 140°F HOT WATER LOOP TO BE REMOVED AND DISPOSED OF. CAP AND ABANDON PIPING BACK TO MECHANICAL ROOM AND ABANDON.
16. EXISTING ROOF ACCESS.

GENERAL NOTES:

A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.

B- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE PLUMBING CONTRACTOR.

C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.

D- PIPING FROM WATER HEATER TO TERMINATION OF HEATED WATER FIXTURE SUPPLY IPIE SHALL HAVE 1-INCH INSULATION WITH AMINIMUM CONDUCTITY OF 0.21 BTU x IN/(HxFT2xF) AS REQUIRED BY IECC C404.4. INSULATION SHALL BE CONTINUOUS EXCEPT WHERE THE PIPE PASSES THROUGH A FRAMING MEMBER OR AT LOCATIONS WHERE A VERTICAL SUPPORT OF THE PIPING IS INSTALLED.

E- SEE ARCHITECTURAL PLANS FOR ROOM NAMES AND NUMBERS.

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ESA JOB NUMBER: 24048

PROFESSIONAL ENGINEER — DAVID L. HANSEN — 18184 — STATE OF IDAHO

Jul 12, 2024

07.12.24

DATE	
Jul 12, 2024	ISSUE FOR PERMIT
Aug 02, 2024	ADDENDUM #1

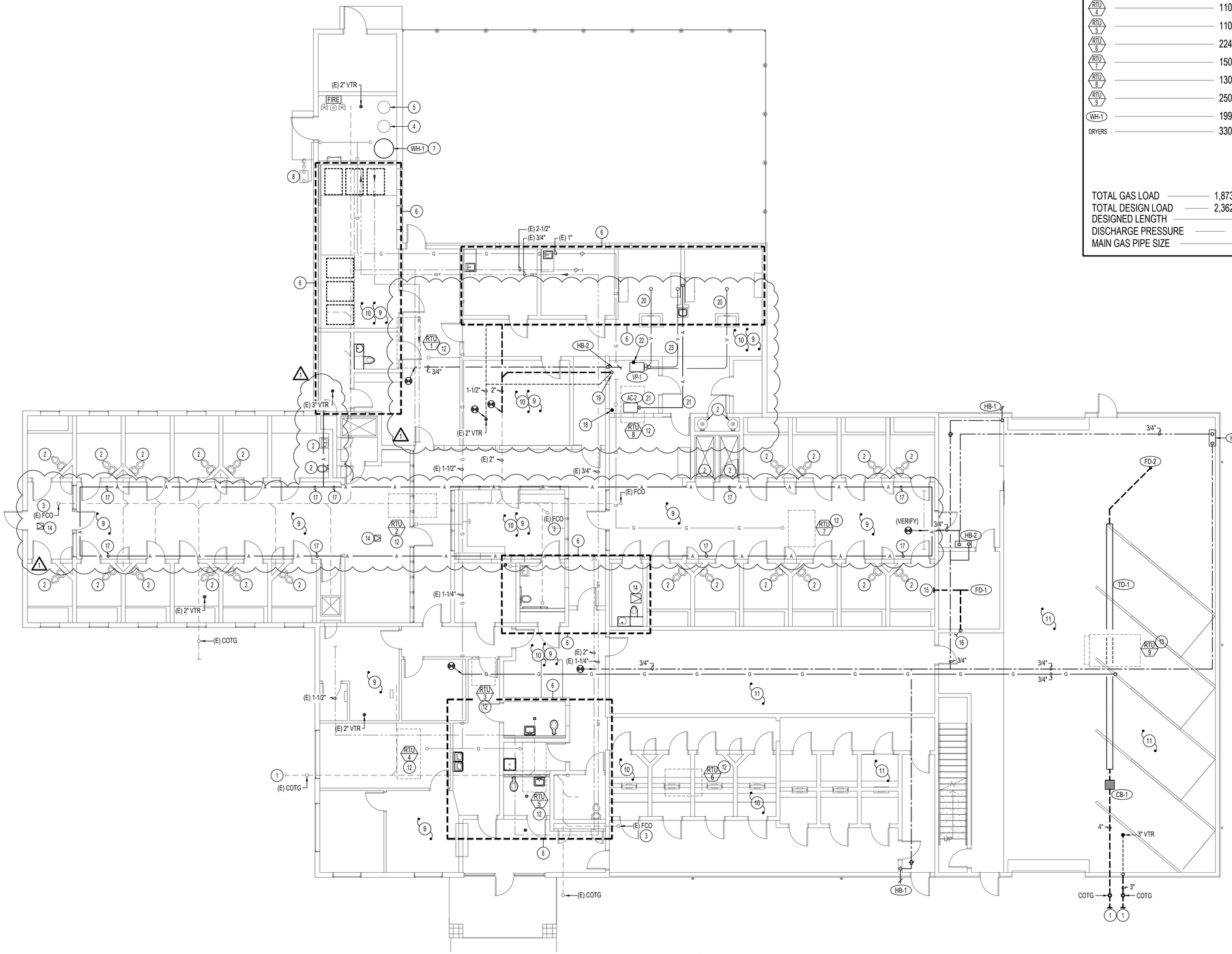
AN ADDITION FOR:
TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A DEMO PLUMB. FLOOR PLAN

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
(208) 736-8050 Fax: (208) 733-0950

DATE: 07/12/2024

TD Drawn | DLH Checked

P1A-1.0



PH 1 PART A PLUMBING FLOOR PLAN

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

North

GAS LOAD CALCS

RTU 1	110,000 BTU/H
RTU 2	150,000 BTU/H
RTU 3	110,000 BTU/H
RTU 4	110,000 BTU/H
RTU 5	110,000 BTU/H
RTU 6	224,000 BTU/H
RTU 7	150,000 BTU/H
RTU 8	130,000 BTU/H
RTU 9	250,000 BTU/H
WH-1	199,000 BTU/H
DRYERS	330,000 BTU/H

TOTAL GAS LOAD	1,873,000 BTU/H
TOTAL DESIGN LOAD	2,362,000 BTU/H
DESIGNED LENGTH	250 FEET
DISCHARGE PRESSURE	(E) 2 PSI
MAIN GAS PIPE SIZE	(E) 1-1/2"

PLAN NOTES:

1. SEE SITE PLAN FOR CONTINUATION.
2. EXISTING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION. CONTRACTOR SHALL REPLACE ALL GASKETS/SEALS FOR ALL FIXTURES.
3. EXISTING CLEAN OUT TO REMAIN. PROTECT DURING CONSTRUCTION.
4. EXISTING WATER SOFTENER TO REMAIN. PROTECT DURING CONSTRUCTION.
5. EXISTING AIR COMPRESSOR SYSTEM TO REMAIN. PROTECT DURING CONSTRUCTION.
6. SEE LARGE SCALE PLANS ON SHEET P1A-1.2 FOR CONTINUATION.
7. PROVIDE AND INSTALL NEW WATER HEATER IN PLACE OF OLD. INSTALL WITH NEW BALL VALVE, FLEX PIPING, AND GAS CONNECTIONS. SECURE NEW WATER HEATER EXISTING WALL WITH ANCHOR STRAPS. SEE TYPICAL INSTALL DETAIL. CORRESPONDING TEMPER STATION TO REMAIN.
8. COORDINATE WITH LOCAL GAS COMPANY TO ACCOMMODATE 1,833,000 BTU/H AT 2 PSI OPERATING PRESSURE. REMOVE REGULATOR WITHIN MECHANICAL ROOM FOR 2PSI OPERATING PRESSURE THROUGHOUT THE BUILDING. FIELD VERIFY EXISTING CONDITIONS.
9. ALL EXISTING SPRINKLER HEADS WITHIN BUILDING TO BE REMOVED AND REPLACED WITH NEW TYCO / RAVEN INSTITUTIONAL HEADS. FIELD VERIFY EXISTING CONDITIONS.
10. RELOCATE EXISTING FIRE SPRINKLER HEAD LOCATIONS AS REQUIRED BY NFPA 13 REQUIREMENT FOR REMODELED AREA. ALL RELOCATED FIRE SPRINKLER HEADS TO BE NEW TYCO / RAVEN TY3281 INSTITUTIONAL TYPE.
11. FIRE SPRINKLER PLANS FOR NEW ADDITION VIA DIFFERED SUBMITTAL.
12. ROOF TOP UNIT REPLACEMENT BY DIVISION 23. DISCONNECT GAS PIPING PRIOR TO REMOVAL. PROVIDE AND INSTALL NEW GAS CONNECTION AS PER DETAIL ON SHEET P1A-2.1.
13. NEW ROOF TOP UNIT BY DIVISION 23. PROVIDE AND INSTALL NEW GAS CONNECTION AS PER DETAIL ON SHEET P1A-2.1.
14. EXISTING CEILING ACCESS.
15. CONTRACTOR REQUIRED TO SCOPE EXISTING WASTE LINES PRIOR TO CONSTRUCTION FOR BEST POSSIBLE SAW CUT FOR NEW WASTE LINE. COORDINATE WITH THE GENERAL CONTRACTOR FOR REQUIRED SAW CUT AND REPAIR.
16. ROUTE VENT LINE TO NEAREST EXISTING EQUIVALENT OR LARGER.
17. INSTALL NEW 3/4 INCH COMPRESSED AIR LOOP AND ROUTE AS HIGH AS POSSIBLE IN CEILING SPACE. DROP LINE TO EACH JAIL CELL DOOR. DOOR AIR PIPING CONNECTION INSTALL AND SIZE TO BE SUPPLIED IN SUPPLEMENTAL INSTRUCTIONS.
18. PROVIDE AND INSTALL 2" VENT THRU ROOF FOR AIR COMPRESSOR INTAKE. TERMINATE ABOVE ROOF WITH GOOSENECK AND COVER OPENING WITH GALVANIZED INSECT SCREEN. TERMINATE VENT 3 FEET A.F.F.
19. NEW HUB DRAIN FOR VACUUM PUMP. SEE DETAIL ON SHEET P1A-2.1.
20. NEW 5/8" VACUUM LINE FROM VACUUM PUMP TO CHAIR. VACUUM LINE TO BE BURIED AND RISE UP BELOW CHAIR. BURIED LINE TO BE CONTINUOUS SOFT COPPER WITH NO ELBOW OR JOINTS. SEE DENTAL EQUIPMENT PLANS FOR SPECIFIC INSTALL INSTRUCTIONS. MODIFY INSTALL AS REQUIRED.
21. NEW 3/4" COMPRESSED AIR LINE FROM COMPRESSOR TO CABINET. ROUTE AS HIGH AS POSSIBLE IN CEILING SPACE. SEE DENTAL EQUIPMENT PLANS FOR SPECIFIC SIZE AND INSTALL INSTRUCTIONS. MODIFY INSTALL AS REQUIRED.
22. PROVIDE AND INSTALL 2" VENT THRU ROOF FOR VACUUM PUMP EXHAUST. TERMINATE ABOVE ROOF WITH GOOSENECK AND COVER OPENING WITH GALVANIZED INSECT SCREEN. CONNECT TO VACUUM PUMP AS PER DENTAL EQUIPMENT PLANS.
23. NEW 1-1/2" VACUUM LINE FROM VACUUM PUMP TO CABINET. VACUUM LINE TO BE BURIED AND RISE UP BELOW CABINET. BURIED LINE TO BE CONTINUOUS SOFT COPPER WITH NO ELBOW OR JOINTS. SEE DENTAL EQUIPMENT PLANS FOR SPECIFIC INSTALL INSTRUCTIONS. MODIFY INSTALL AS REQUIRED.

07.12.24

DATE
Jul 12, 2024 ISSUE FOR PERMIT
Aug 02, 2024 ADDENDUM #1

AN ADDITION FOR:
TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A PLUMBING FLOOR PLAN

Laughlin Ricks Architecture
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PROFESSIONAL ENGINEER
DAVID L. HANSEN
18184
STATE OF IDAHO
Jul 12, 2024

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ESA JOB NUMBER: 24048

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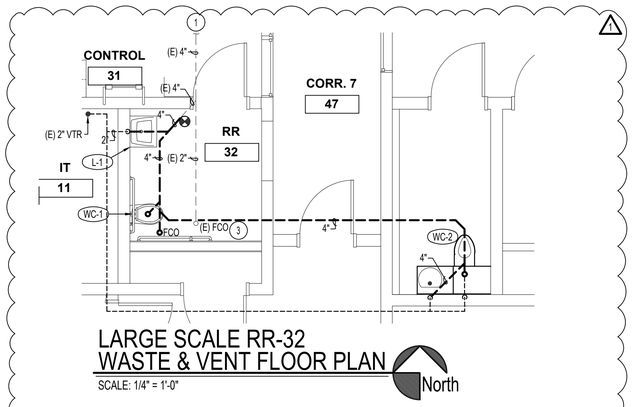
DLH Checked

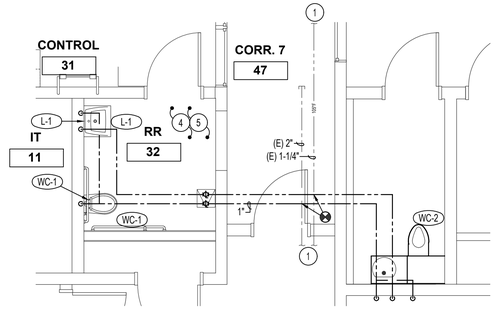
P1A-1.1



LARGE SCALE RR-32
WASTE & VENT FLOOR PLAN

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

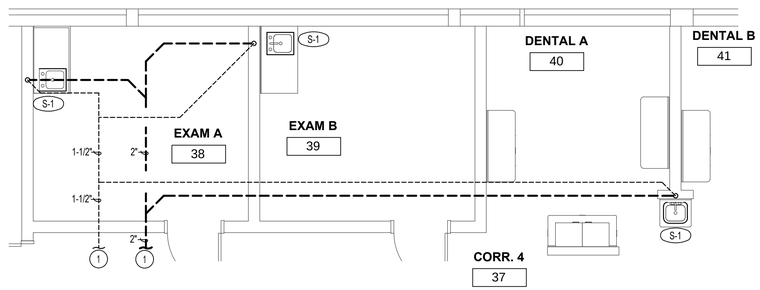
North



LARGE SCALE RR-32
WATER FLOOR PLAN

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

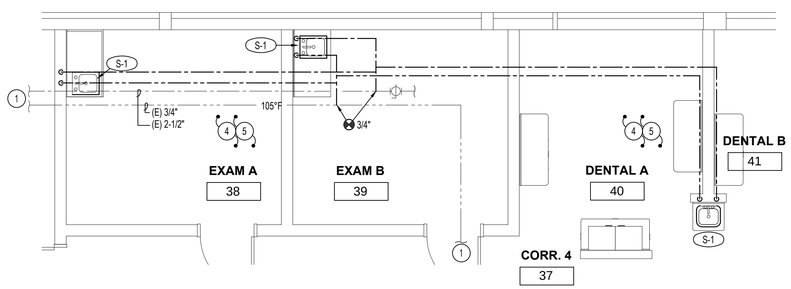
North



LARGE SCALE MEDICAL WASTE & VENT FLOOR PLAN

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

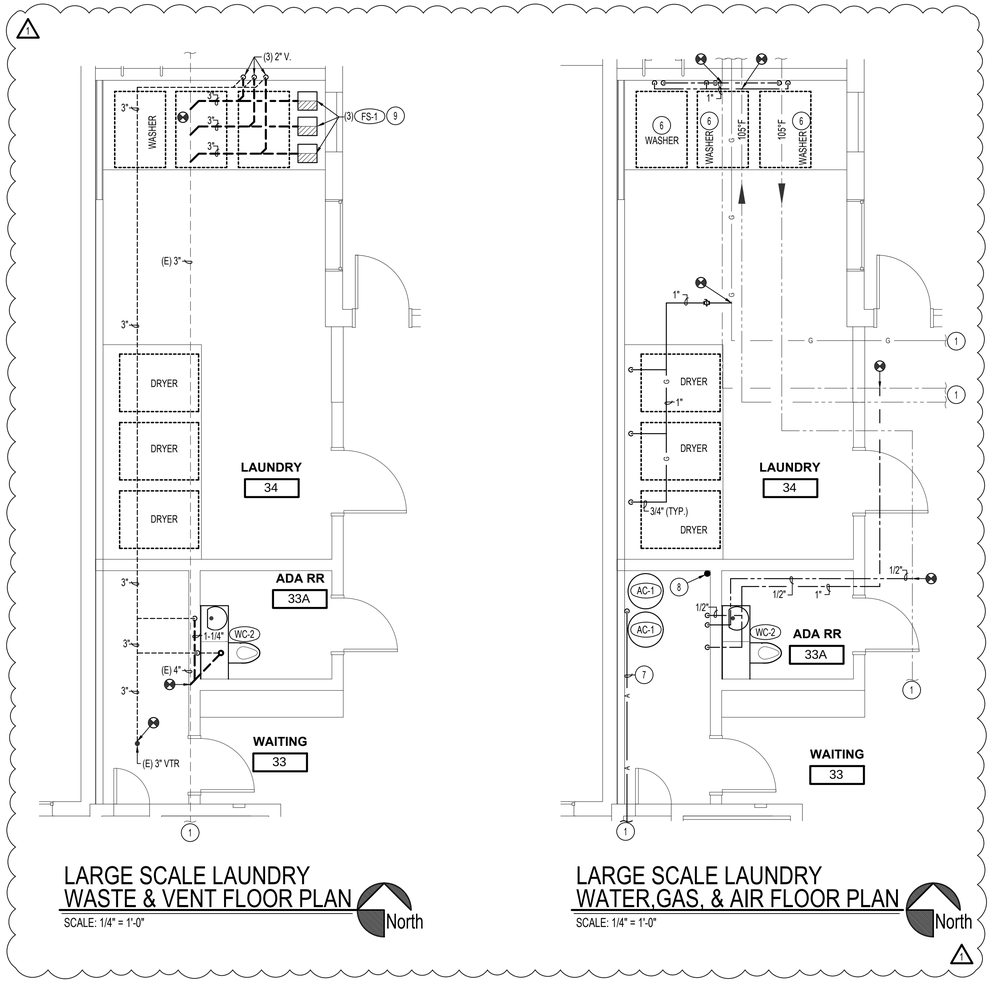
North



LARGE SCALE MEDICAL WATER FLOOR PLAN

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

North



LARGE SCALE LAUNDRY
WASTE & VENT FLOOR PLAN

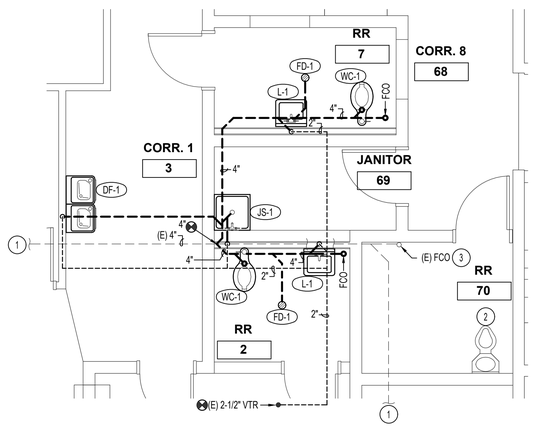
SCALE: 1/4" = 1'-0"

North

LARGE SCALE LAUNDRY
WATER,GAS, & AIR FLOOR PLAN

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

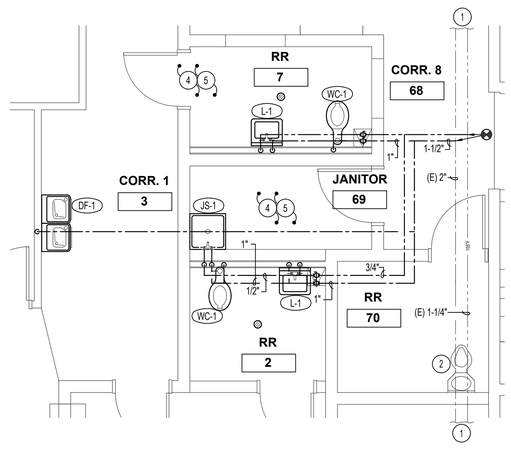
North



LARGE SCALE RR-2 & 7 WASTE & VENT FLOOR PLAN

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

North



LARGE SCALE RR-2 & 7 WATER FLOOR PLAN

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

North

PLAN NOTES:

1. SEE SHEET P1A-1.2 FOR CONTINUATION.
2. EXISTING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
3. EXISTING CLEAN OUT TO REMAIN. PROTECT DURING CONSTRUCTION.
4. ALL EXISTING SPRINKLER HEADS WITHIN BUILDING TO BE REMOVED AND REPLACED WITH NEW TYCO / RAVEN INSTITUTIONAL HEADS. FIELD VERIFY EXISTING CONDITIONS.
5. RELOCATE EXISTING FIRE SPRINKLER HEAD LOCATIONS AS REQUIRED BY NFPA 13 REQUIREMENT FOR REMODELED AREA. ALL RELOCATED FIRE SPRINKLER HEADS TO BE NEW TYCO / RAVEN INSTITUTIONAL TYPE.
6. PIPE 3/4" COPPER COLD & HOT WATER LINE DOWN ALONG WALL AND CONNECTED TO WASHER WITH BALL VALVE, UNION, AND FLEX HOSE. FOLLOW WASHER MANUFACTURER RECOMMENDED INSTALL AND MODIFY INSTALL AS REQUIRED.
7. INSTALL NEW 3/4 INCH COMPRESSED AIR LOOP AND ROUTE AS HIGH AS POSSIBLE IN CEILING SPACE.
8. PROVIDE AND INSTALL 2" VENT THRU ROOF FOR AIR COMPRESSOR INTAKE. TERMINATE ABOVE ROOF WITH GOOSENECK AND COVER OPENING WITH GALVANIZED INSECT SCREEN. TERMINATE INDOOR VENT 3 FEET A.F.F.
9. PIPE EACH WASHING MACHINE TO EACH INDIVIDUAL FLOOR SINK. DO NOT COMBINE WASHING MACHINE WASTE PIPING.

△1 07.12.24

DATE	ISSUE FOR PERMIT
Jul 12, 2024	
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TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
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PROFESSIONAL ENGINEER
REGISTERED
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STATE OF IDAHO
DAVID L. HANSEN
Jul 12, 2024

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ESA JOB NUMBER: 24048

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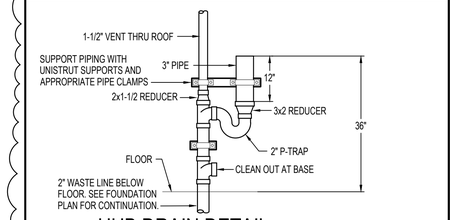
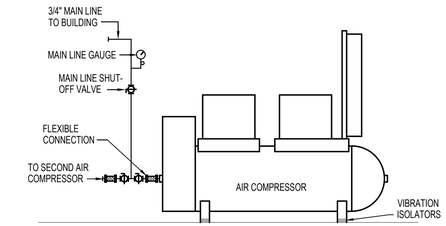
TD Drawn | DLH Checked

P1A-1.2



HUB DRAIN DETAIL

NO SCALE



TYPICAL AIR COMPRESSOR PIPING DETAIL

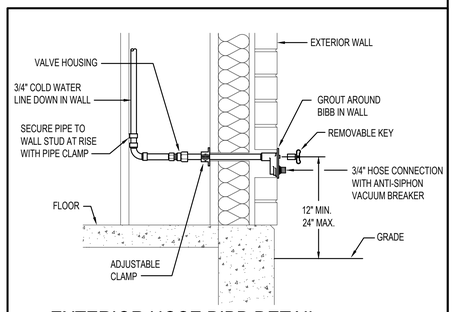
NO SCALE

SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
AC-1	AIR COMPRESSOR - HUSTKY 30 GAL. ROUGH- IN AND CONNECT 1" COMPRESSED AIR LINE AND 1" VENT LINE PIPED TO OUTSIDE TO COMPRESSOR. REFER TO DETAIL ON THIS SHEET FOR CONNECTIONS. (120/60/1 - WALL PLUG)	---	---	---	3/4" (AIR)
AC-2	AIR COMPRESSOR - PROVIDED BY DENTAL EQUIPMENT SUPPLIER. INSTALLED BY CONTRACTOR.	---	---	---	3/4" (AIR)
VP-1	VACUUM PUMP - PROVIDED BY DENTAL EQUIPMENT SUPPLIER. INSTALLED BY CONTRACTOR.	---	---	---	3/4" (VAC)
HB-2	HOSE BIBB - ZURN MODEL Z1327-EZ HOT/COLD LOCKABLE & ENCASED NARROW WALL HYDRANT WITH VACUUM BREAKER AND MOUNTING BRACKETS.	3/4"	3/4"	---	---
WC-2	TOILET/LAV SECURITY COMBY - PENAL-WARE MODEL 1449 LEFT SIDED TOILET. INSTALL AS PER MANUFACTURER INSTALLATION.	1/2"	1"	4"	2"

FIXTURE SCHEDULE

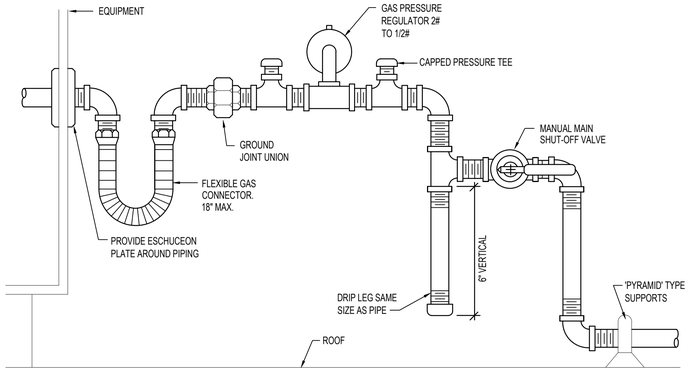
SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
CB-1	CATCH BASIN - SEE DETAIL ON THIS SHEET.	---	---	4"	---
DF-1	BI-LEVEL ADA DRINKING FOUNTAIN - ELKAY MODEL LZSTL8WSLK WITH BOTTLE FILLER STATION & FILTER FRONT PUSH BAR OPERATORS, 1/2" STOP, 1-1/2" P-TRAP AND FLEX-GUARD SAFETY BUBBLER VALVE.	---	1/2"	1-1/2"	1-1/2"
FD-1	2" FLOOR DRAIN - ZURN Z-415B WITH 5"Ø CHROME-PLATED BRONZE STRAINER, 2" DEEP SEAL P-TRAP, AND TRAP SEAL.	---	---	2"	2"
FD-2	2" FLOOR DRAIN - ZURN Z-415B WITH 5"Ø CHROME-PLATED BRONZE STRAINER.	---	---	2"	2"
FS-1	FLOOR SINK - ZURN Z-1900-KC WITH WHITE ENAMEL FINISH, DOME STRAINER AND 3" DEEP SEAL P-TRAP. PROVIDE 1/2 GRATE OVER SINK.	---	---	3"	2"
HB-1	HOSE BIBB - ZURN MODEL Z1305 "ECOLOTROL" ENCASED & LOCKABLE NON-FREEZE HOSE BIBB. LENGTH TO SUIT WALL THICKNESS.	---	3/4"	---	---
HB-2	HOSE BIBB - SEE DETAIL ON THIS SHEET.	3/4"	3/4"	---	---
JS-1	FLOOR MOUNTED SERVICE SINK - FIAT MODEL 24EFS (24"x24") MOP SINK WITH FIAT 830AA FAUCET AND 2" DEEP SEAL P-TRAP AND STRAINER	1/2"	1/2"	2"	2"
L-1	ADA COUNTERTOP LAVATORY - KOHLER MODEL K-2905-4 SELF-RIMMING "FARMINGTON" WITH MOEN L4601 LEVER FAUCET, K-7715 OPEN GRID STRAINER, 1/2" BALL STOPS AND 1-1/4" P-TRAP. INSULATE HOT WATER SUPPLY AND TRAP WITH JACKET.	1/2"	1/2"	1-1/2" (1)	1-1/2"
S-1	SINGLE COMPARTMENT SINK - ELKAY MODEL HDSB15156PWK WITH 18 GA TYPE 304 STAINLESS STEEL CONSTRUCTION, 2-HOLE FAUCET DRILLINGS, ELKAY LK2477CR FAUCET, LK-99 STRAINER, 1-1/2" P-TRAP AND 1/2" BALL TYPE STOP VALVES.	1/2"	1/2"	2"	1-1/2"
TD-1	TRENCH DRAIN - ZURN 886-HD 6-3/4" WIDE HEAVY DUTY TRENCH DRAIN SYSTEM WITH 4" END OUTLET, END CAP AND DUCTILE IRON SLOTTED GRATE, LENGTH AS PER FLOOR PLAN.	---	---	4"	---
WC-1	ADA FLUSH VALVE WATER CLOSET - KOHLER K-4368 "HIGHCLIFF" WITH ELONGATED BOWL, K-4670C WHITE OPEN FRONT SEAT, SLOAN REGAL FLUSH VALVE AND BOLT CAPS.	---	1"	4"	2"
WH-1	100 GALLON GAS FIRED WATER HEATER - A.O.SMITH MODEL BTR-199 ATMOSPHERIC WATER HEATER WITH 100 GALLON CAPACITY, 199,000 BTU/H, (120/60/1), 1-1/2" SUPPLIES AND T&P RELIEF VALVE.	1-1/2"	1-1/2"	---	---

(1) LAVATORYS TO HAVE 2" VENT IF USED AS BATHROOM GROUP WET VENT.



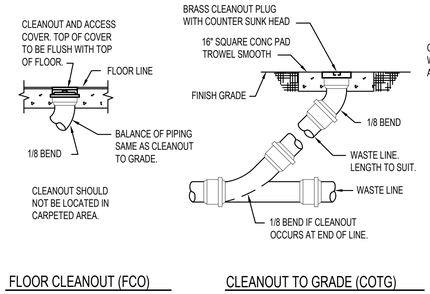
EXTERIOR HOSE BIBB DETAIL

NO SCALE



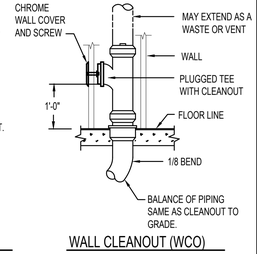
ROOF TOP GAS PRESSURE REGULATOR DETAIL

NO SCALE



FLOOR CLEANOUT (FCO)

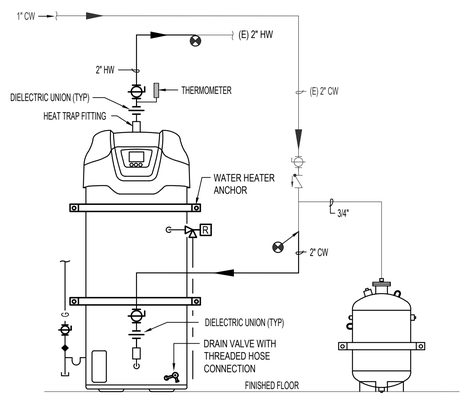
CLEANOUT TO GRADE (COTG)



WALL CLEANOUT (WCO)

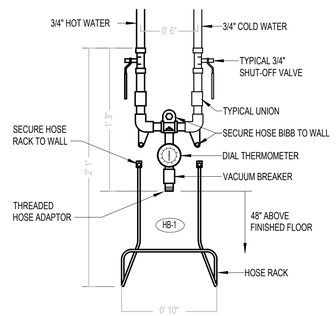
CLEAN OUT DETAILS

NO SCALE



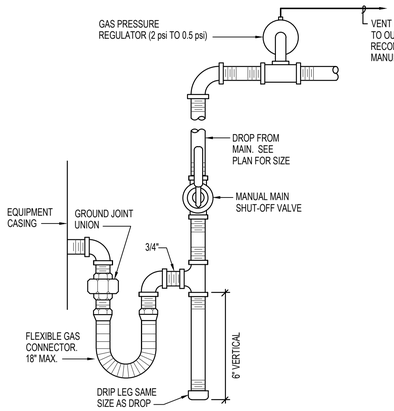
TYPICAL WATER HEATER PIPING DIAGRAM

NO SCALE



INTERIROR HOSE BIBB DETAIL

NO SCALE



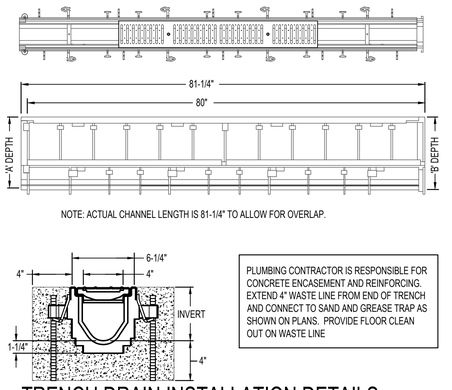
GAS LINE CONNECTION DETAIL

NO SCALE

TRENCH SECTIONS

	TRENCH NO. *	SHALLOW INVERT 'A'	DEEP INV. 'B'
40'-0" TRENCH	8604	5.30"	5.90"
	8605	5.90"	6.50"
	8606	6.50"	7.10"
	8607	7.10	7.70"
	8608	7.70"	8.30"
	8609	8.30"	8.90"
54'-4" TRENCH	8604	5.30"	5.90"
	8605	5.90"	6.50"
	8606	6.50"	7.10"
	8607	7.10	7.70"
	8608	7.70"	8.30"
	8609	8.30"	8.90"
	8610	8.90"	9.50"
	86011	9.50"	10.10"
80'-0" TRENCH	8604	5.30"	5.90"
	8605	5.90"	6.50"
	8606	6.50"	7.10"
	8607	7.10	7.70"
	8608	7.70"	8.30"
	8609	8.30"	8.90"
	8610	8.90"	9.50"
	86011	9.50"	10.10"
	8612	10.10"	10.70"
	8613	10.70"	11.30"
	8614	11.30"	11.90"
	8615	11.90"	12.50"

* TRENCH SECTIONS ARE 80" LONG. DO NOT USE NEUTRAL SECTIONS.

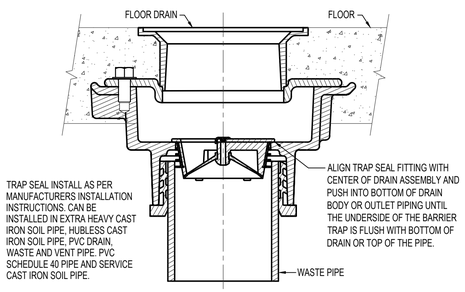


NOTE: ACTUAL CHANNEL LENGTH IS 81-1/4" TO ALLOW FOR OVERLAP.

PLUMBING CONTRACTOR IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING. EXTEND 4" WASTE LINE FROM END OF TRENCH AND CONNECT TO SAND AND GREASE TRAP AS SHOWN ON PLANS. PROVIDE FLOOR CLEAN OUT ON WASTE LINE

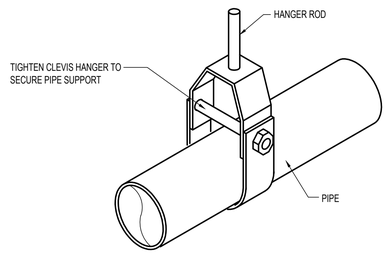
TRENCH DRAIN INSTALLATION DETAILS

NO SCALE



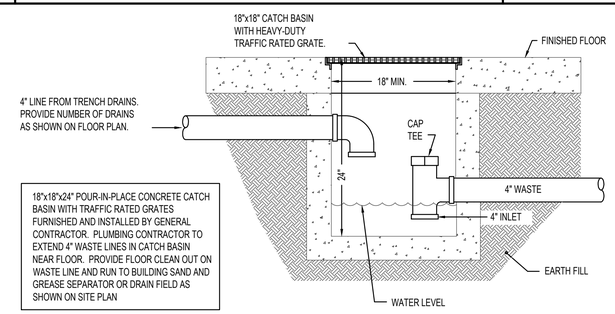
TRAP SEAL INSTALLATION DETAIL

NO SCALE



UNINSULATED PIPE SUPPORT DETAIL

NO SCALE



18"x18"x24" POUR-IN-PLACE CONCRETE CATCH BASIN WITH TRAFFIC RATED GRATES FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO EXTEND 4" WASTE LINES IN CATCH BASIN NEAR FLOOR. PROVIDE FLOOR CLEAN OUT ON WASTE LINE AND RUN TO BUILDING SAND AND GREASE SEPARATOR OR DRAIN FIELD AS SHOWN ON SITE PLAN

CATCH BASIN PIPING DETAIL

NO SCALE

07.12.24

DATE: Jul 12, 2024 — ISSUE FOR PERMIT
Aug 05, 2024 — ADDENDUM #1

AN ADDITION TO THE
TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
PLUMBING SCHEDULES AND DETAILS

Laughlin Ricks Architecture
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PROFESSIONAL ENGINEER — 18184 — STATE OF IDAHO — DAVID L HANSEN
Jul 12, 2024

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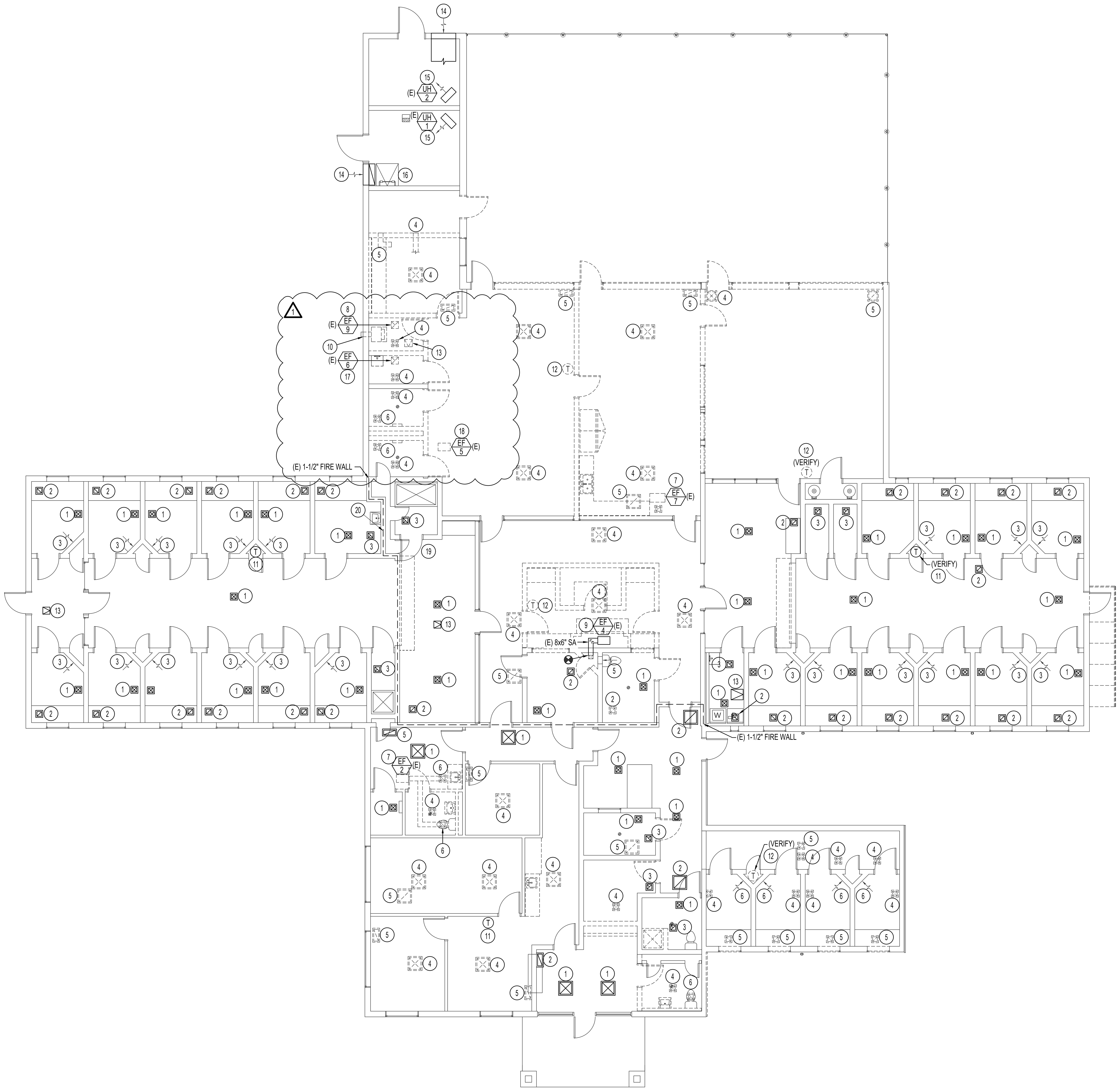
ESA JOB NUMBER: 24048

DATE: 07/12/2024
TD Drawn — DLH Checked

P1A-2.1



PH 1 PART A DEMO MECHANICAL FLOOR PLAN

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

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
(T)	ELECTRONIC THERMOSTAT
(S)	ELECTRONIC SENSOR
FC 1	EQUIPMENT SYMBOL
(E) "FC-1"	EXISTING EQUIPMENT TAG MARKINGS
(E) FC-1	EXISTING EQUIPMENT DRAWING MARKINGS
	SMOKE DETECTOR
CO2	CARBON DIOXIDE DETECTOR
(E)	EXISTING
(R)	RELOCATED
HD	HAND DAMPER
CHD	CONCEALED HAND DAMPER
	ROUND BRANCH DUCT WITH HAND DAMPER
	INSULATED FLEXIBLE DUCT
	RETURN AIR OR EXHAUST GRILLE
	CEILING DIFFUSER
	ROOF MOUNTED UPBLAST EXHAUST FAN
	BACKDRAFT DAMPER
- - - - - -	EXISITING TO BE DEMOLISHED
———	EXISTING TO REMAIN (E)
———	NEW EQUIPMENT
	CONNECTION/DISCONNECTION

GENERAL NOTES:

A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.

B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.

C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.

D- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.

E- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURES.

F- PIPING FROM WATER HEATER TO TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPIE SHALL HAVE 1-INCH INSULATION WITH AMINIMUM CONDUCTITY OF 0.21 BTU x IN/(HxFT2xF) AS REQUIRED BY IECC C404.4. INSULATION SHALL BE CONTINUOUS EXCEPT WHERE THE PIPE PASSES THROUGH A FRAMING MEMBER OR AT LOCATIONS WHERE A VERTICAL SUPPORT OF THE PIPING IS INSTALLED.

G- SEE ARCHITECTURAL PLANS FOR ROOM NAMES AND NUMBERS.

PLAN NOTES:

1. EXISTING DIFFUSER TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING RETURN GRILLE TO REMAIN. PROTECT DURING CONSTRUCTION.
3. EXISTING EXHAUST GRILLE TO REMAIN. PROTECT DURING CONSTRUCTION.
4. EXISTING DIFFUSER TO BE REMOVED AND DISPOSED OF IN ITS ENTIRETY. REMOVE, DISPOSE OF, AND CAP CORRESPONDING BRANCH DUCTWORK AND CAP AT MAIN IF BRANCH DUCTWORK IS NOT BEING RE-USED. SEE SHEET M1A-1.1 FOR BRANCH DUCTWORK BEING RE-USED.
5. EXISTING RETURN/RELIEF GRILLE TO BE REMOVED AND DISPOSED OF IN ITS ENTIRETY ALONG WITH CORRESPONDING SOUND BOOT.
6. EXISTING EXHAUST GRILLE TO BE REMOVED IN ITS ENTIRETY. REMOVE, DISPOSE OF, AND CAP CORRESPONDING BRANCH DUCTWORK CAP AT MAIN.
7. EXISTING IN-LINE EXHAUST FAN TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL DUCT AND CAP DUCT AT ROOF CAP.
8. EXISTING CEILING EXHAUST FAN TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL DUCT AND CAP DUCT AT ROOF CAP.
9. EXISTING IN-LINE EXHAUST FAN TO REMAIN. MODIFY DUCTWORK AS REQUIRED FOR NEW EXHAUST GRILLE LOCATION.
10. EXISTING DRYER TO BE REMOVED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. REMOVE AND DISPOSE OF CORRESPONDING DUCTWORK AND WALL CAP IN ITS ENTIRETY. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE REQUIRED PATCH & REPAIR AFTER THE WORK IS COMPLETE. COORDINATE WITH DIVISION 22 FOR GAS LINE REMOVAL.
11. EXISTING THERMOSTAT TO REMAIN. PROTECT DURING CONSTRUCTION.
12. REMOVE AND RE-LOCATE EXISTING THERMOSTAT. MODIFY WIRING AS REQUIRED. SEE SHEET M1A-1.1 FOR NEW LOCATION.
13. EXISTING CEILING ACCESS SECUIRTY PANEL.
14. EXISTING INTAKE/COMBUSTION AIR LOUVER AND CORRESPONDING DUCTWORK TO REMAIN.
15. EXISTING UNIT HEATER TO REMAIN. PROTECT DURING CONSTRUCTION.
16. EXISTING ROOF ACCESS.
17. EXISTING CEILING EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. SEE SHEET M1A-1.1 FOR SHIFTED LOCATION. (1)
18. EXISTING IN-LINE EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. CORRESPONDING SECURITY EXHAUST GRILLE TO REMOVED AND DISPOSED OF. SEE SHEET M1A-1.1 FOR NEW INSTALL.

PROFESSIONAL ENGINEER REGISTERED 18184 STATE OF IDAHO DAVID L. HANSEN
Jul 12, 2024

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07.12.24

DATE		
Jul 12, 2024	ISSUE FOR PERMIT	
Aug 02, 2024	ADDENDUM #1	1

AN ADDITION FOR:
TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A DEMO MECH. FLOOR PLAN

Laughlin Ricks Architecture
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134 3RD AVE. E. * Twin Falls, Idaho 83301
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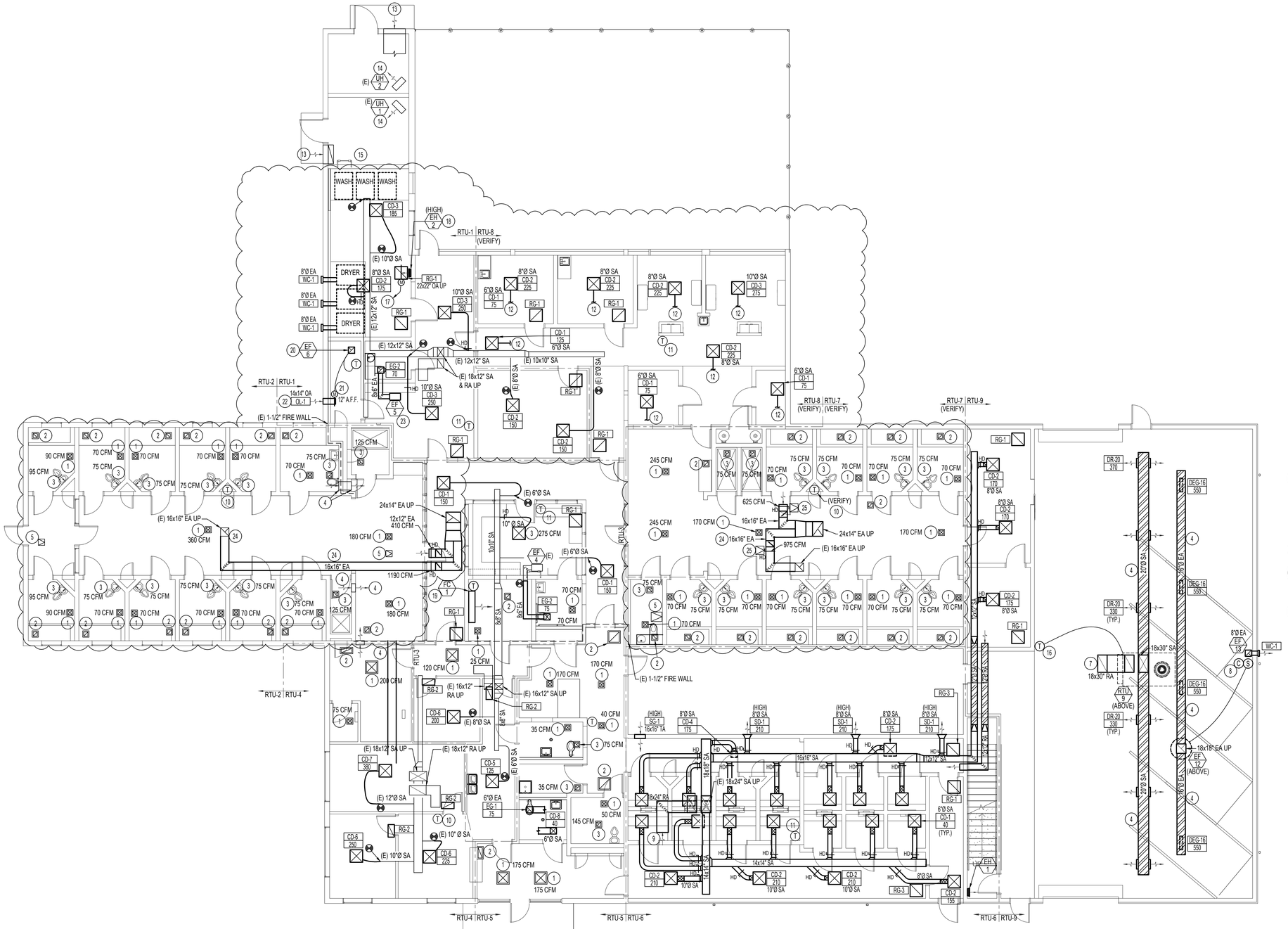
DATE: 07/12/2024
TD Drawn DLH Checked

M1A-1.0



PH 1 PART A MECHANICAL FLOOR PLAN

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

North

PLAN NOTES:

1. EXISTING DIFFUSER TO REMAIN. BALANCE TO CFM INDICATED ON PLANS.
2. EXISTING RETURN/RELIEF GRILLE TO REMAIN. PROTECT DURING CONSTRUCTION.
3. EXISTING EXHAUST GRILLE TO REMAIN. BALANCE TO CFM INDICATED ON PLANS.
4. EXISTING TRANSFER DUCT IN CEILING SPACE WITH FIRE DAMPER TO REMAIN. PROTECT DURING CONSTRUCTION.
5. EXISTING CEILING ACCESS SECURITY PANEL.
6. ROUTE MAIN DUCTWORK AS HIGH AS POSSIBLE. SUPPLY DIFFUSERS TO BE INSTALLED HORIZONTALLY AND COME IN 45° DOWNWARD DEFLECTION TO MINIMIZE AIR VELOCITY TO OCCUPANTS BELOW. EXHAUST GRILLES TO BE INSTALLED ON BOTTOM OF DUCT. EXPOSED DUCTWORK TO BE PRE-PRIMED WITH PAINTLOK.
7. RETURN GRILLE TO CONTAIN MIN QTY (2) 90° ELBOWS/TURNS FOR SOUND ISOLATION. TERMINATE DUCT UPWARDS AND COVER WITH 1/4" GALVANIZED MESH WIRING.
8. TYPICAL CO / NO2 SENSOR FOR GARAGE EXHAUST SYSTEM. MOUNTING HEIGHT AS PER MANUFACTURER INSTRUCTIONS. SEE SPECIFICATIONS.
9. RETURN GRILLE TO CONTAIN MIN QTY (2) 90° ELBOWS/TURNS FOR SOUND ISOLATION. COVER OPENING WITH 1/4" GALVANIZED MESH WIRING.
10. EXISTING THERMOSTAT TO REMAIN. PROTECT DURING CONSTRUCTION.
11. RE-LOCATE EXISTING THERMOSTAT. MODIFY WIRING AS REQUIRED.
12. TIE NEW BRANCH DUCTWORK TO NEAREST EXISTING MAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
13. EXISTING INTAKE/COMBUSTION AIR LOUVER AND CORRESPONDING DUCTWORK TO REMAIN.
14. EXISTING UNIT HEATER TO REMAIN. PROTECT DURING CONSTRUCTION.
15. EXISTING ROOF ACCESS.
16. CONTROLS TO COME WITH OCCUPANCY SENSOR.
17. INSTALL MOTORIZED DAMPER IN CEILING SPACE. COORDINATE WITH ELECTRICAL FOR INTERLOCK WITH THE OPERATION OF ANY DRYER.
18. INSTALL WALL ELECTRIC HEATER 12" BELOW CEILING AND DIRECTLY BELOW RELIEF/COMBUSTION AIR INTAKE.
19. ADJUST FAN COIL INSTALL LOCATION AS DIRECTED BY OWNER. SEE INSTALL DETAIL ON SHEET M1A-2.2.
20. NEW CEILING EXHAUST FAN LOCATION. ROUTE 8x8" EA DUCTWORK TO NEAREST EXISTING 8x6" EA UP THRU ROOF CAP. FIELD VERIFY EXISTING CONDITIONS. EXHAUST FAN TO BE CONTROLLED BY COOLING THERMOSTAT.
21. MOTORIZED DAMPER TO BE INTERLOCKED WITH OPERATION OF EXHAUST FAN. COORDINATE WITH ELECTRICAL SUBCONTRACTOR FOR INTERLOCK.
22. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE REQUIRED PENETRATION AND LINTEL THRU OUTSIDE WALL.
23. EXISTING IN-LINE EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW.
24. ROUTE NEW EXHAUST DUCT AS REQUIRED IN CEILING SPACE TO EXISTING LOCATION. MODIFY ROUTE AND TRANSITION AS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS. FEILD VERIFY EXISTING CONDITIONS DURING CONSTRUCTION.
25. COORDINATE WITH THE GENERAL CONTRACTOR FOR THE REQUIRED 16x16" SECURITY ACCESS PANEL FOR HAND DAMPER.

07.12.24

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PH 1 PART A DEMO MECH. FLOOR PLAN

Laughlin Ricks Architecture
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DAVID L. HANSEN
18184
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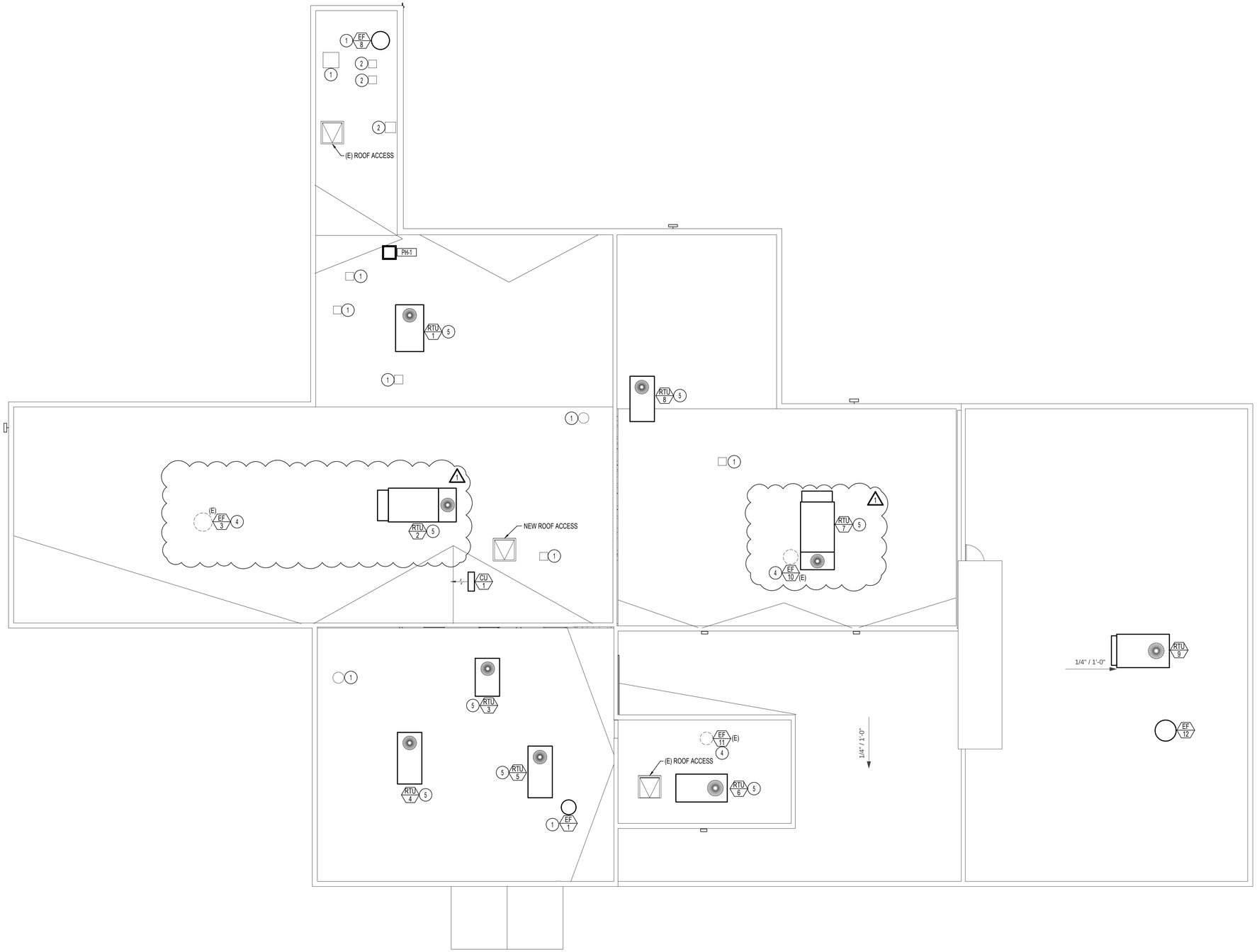
TD	DLH
Drawn	Checked

M1A-1.1



PH 1 PART A MECHANICAL ROOF PLAN

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

North

PLAN NOTES:

1. EXISTING ROOF CAP TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING FLUE THRU ROOF TO REMAIN. PROTECT DURING CONSTRUCTION.
3. REMOVE AND REPLACE EXISTING ROOF EXHAUST FAN WITH NEW.
4. REMOVE AND DISPOSE OF EXISTING EXHAUST FAN IN ITS ENTIRETY ALONG WITH CORRESPONDING DUCTWORK AND GRILLES. CAP OPENING WITH 18 GAUGE GALVANIZED STEEL COVERING.
5. REMOVE, DISPOSE OF, AND REPLACE EXISTING ROOF TOP UNIT WITH NEW. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTALS AND CONSTRUCTIONS. PROVIDE AND INSTALL ROOF TOP UNITS WITH ADAPT-A-CURB OR SIMILAR IF REQUIRED. COORDINATE WITH DIVISION 22 FOR GAS PIPING DISCONNECTION AND RECONNECTION.

07.12.24

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TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
PH 1 PART A MECH. ROOF PLAN

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PROFESSIONAL ENGINEER
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TD Drawn | DLH Checked

M1A-1.2

EXHAUST FAN SCHEDULE

SYM.	TYPE	C.F.M.	S.P.E.	HP	CHAR.	FLA	R.P.M.	CONTROL	REMARKS
EF-1	ROOF MOUNTED	455	0.38	1/4	120/60/1	5.8	1725	24/7 CONTINUOUS	PENNBARRY MODEL DX11QGP
EF-2	IN-LINE	-	-	-	-	-	-	-	EXISTING TO BE REMOVED
EF-3	ROOF MOUNTED	-	-	-	-	-	-	-	EXISTING TO BE REMOVED
EF-4	IN-LINE	75	0.25	1/20	120/60/1	-	1050	WITH LIGHTS (SEE ELECTRICAL)	EXISTING TO REMAIN.
EF-5	IN-LINE	MIN 70	0.25	87 WATTS	120/60/1	1.1	760	WITH LIGHTS (SEE ELECTRICAL)	TWIN CITY T100L
EF-6	CEILING MOUNTED	MIN 250	0.25	127 WATTS	120/60/1	2.1	830	COOLING THERMOSTAT	PENNBARRY MODEL ZQ255
EF-7	IN-LINE	-	-	-	-	-	-	-	EXISTING TO BE REMOVED
EF-8	IN-LINE	-	-	-	-	-	-	-	EXISTING TO BE REMOVED
EF-9	ROOF MOUNTED	1500	0.25	1/2	120/60/1	9.8	1155	(E) COOLING THERMOSTAT	PENNBARRY MODEL DX16Q1GP
EF-10	ROOF MOUNTED	-	-	-	-	-	-	-	EXISTING TO BE REMOVED
EF-11	IN-LINE	-	-	-	-	-	-	-	EXISTING TO BE REMOVED
EF-12	ROOF MOUNTED	2200	0.5	3/4	120/60/1	13.8	1725	CARBON MONOXIDE	PENNBARRY MODEL DX16Q2GP
EF-13	WALL MOUNTED	MIN 160	0.125	-	120/60/1	1.7	868	24/7 CONTINUOUS	PENNBARRY MODEL Z8-GPE

ELECTRIC HEATER SCHEDULE

SYM.	TYPE	BTU/H	KW	CHAR	CONTROL	REMARKS
EH-1	SURFACE MOUNT	6,824	2.0	208/60/1	INTEGRAL	QMARK MODEL 4408F WITH SURFACE MOUNTED FRAME
EH-2	SURFACE MOUNT	16,378	4.8	208/60/3	INTEGRAL	QMARK MODEL AWH45083F ARCHITECTURAL HEAVY-DUTY WITH SURFACE MOUNTED FRAME

*INSTALL UNIT ON WALL 12" A.F.F. TO BOTTOM OF FRAME OR UNLESS STATED ON PLANS

CONDENSING UNIT SCHEDULE

SYM.	COOLING	HEATING	EAT	CHAR.	MCA	MOCP	WEIGHT	REFRIGERANT PIPING*		REMARKS
								LIQUID	SUCTION	
CU-1	33,200 BTU/H	N/A	95°F	208-1Ø	14	25	130#	1/4"	5/8"	MITSUBISHI ELECTRIC MODEL MUY0GS36NA2 CONDENSING UNIT WITH LOW AMBIENT START KIT. 18.5 SEER2.

*ADJUST REFRIGERANT SIZE BASED ON FIELD MEASUREMENTS, QUANTITY OF FITTINGS, AND MANUFACTURER RECOMMENDED SIZING CHARTS.

FAN COIL SCHEDULE

SYM.	CFM	CHAR.	FAN WATTS	FLA	WEIGHT	COOLING CAPACITY	CONDENSATE DRAIN	REMARKS
FC-1	MEDIUM	FROM HP-1	60	1.0	40#	33,200 BTU	3/4"	MITSUBISHI ELECTRIC MODEL MSY-GS36NA2 WITH CONDENSATE PUMP AND WIRED THERMOSTAT.

ROOF TOP HEATING & AIR CONDITIONING UNIT SCHEDULE

SYM.	CFM	OA	SP_s	BLOWER H.P.	CHAR	MCA	MOCP	WEIGHT	GAS CONN	HEATING		COOLING				REMARKS (1) (3)
										BTU/H IN	BTUH OUT*	EAT	LAT	MBH	EAT	LAT	
RTU-1	1200	200	0.7	0.5	208/60/3	20	30	700 LB	3/4"	110,000	73,000	44.5	107.7	32	95	57.9	CARRIER MODEL 48FCEA04 WITH COIL GUARDS, INTEGRATED DISCONNECT.13.4 SEER2.
RTU-2 (4)	1600	1600	1.0	1.0	208/60/3	32	45	2430 LB	3/4"	150,000	121,000	49.7	110	48	95	55	CARRIER MODEL 62X WITH ENERGY RECOVERY VENTILATOR, 5:1 TURNDOWN HEAT, SMOKE DETECTOR, COIL GUARDS, INTEGRATED DISCONNECT.
RTU-3	1200	230	0.65	0.33	208/60/1	26	30	700 LB	3/4"	110,000	73,000	44.5	107.7	32	95	57.9	CARRIER MODEL 48FCEA04 WITH COIL GUARDS, INTEGRATED DISCONNECT. 13.4 SEER2.
RTU-4	1200	180	0.65	0.5	208/60/3	20	30	700 LB	3/4"	110,000	73,000	44.5	107.7	32	95	57.9	CARRIER MODEL 48FCEA04 WITH COIL GUARDS, INTEGRATED DISCONNECT. 13.4 SEER2.
RTU-5	1200	200	0.7	0.5	208/60/3	20	30	700 LB	3/4"	110,000	73,000	44.5	107.7	32	95	57.9	CARRIER MODEL 48FCEA04 WITH COIL GUARDS, INTEGRATED DISCONNECT. 13.4 SEER2.
RTU-6	3000	400	1.0	1.0	208/60/3	40	50	960 LB	3/4"	224,000	181,000	44.5	110	86	95	55	CARRIER MODEL 48FCFM08 WITH 2-STAGE COOLING, SMOKE DETECTOR, ECONOMIZER, COIL GUARDS, INTEGRATED DISCONNECT. 15 IEER.
RTU-7 (4)	1600	1600	1.0	1.0	208/60/3	32	45	2430 LB	3/4"	150,000	121,000	49.7	110	48	95	55	CARRIER MODEL 62X WITH ENERGY RECOVERY VENTILATOR, 5:1 TURNDOWN HEAT, VARIABLE COMPRESSOR, SMOKE DETECTOR, COIL GUARDS, INTEGRATED DISCONNECT.
RTU-8	1400	280	0.7	1.0	208/60/3	26	30	750 LB	3/4"	130,000	106,000	44.5	99.0	44	95	57.3	CARRIER MODEL 48FCEA05 WITH ECONOMIZER, BAROMETRIC RELIEF DAMPER, COIL GUARDS, INTEGRATED DISCONNECT. 13.4 SEER2.
RTU-9	4000	250	0.5	2.0	208/60/3	45	60	1200 LB	3/4"	250,000	200,000	29.9	74.1	125	99	55	CARRIER MODEL 48FCTM12 WITH 2-STAGE COOLING, STAINLESS STEEL HEAT EXCHANGER, ECONOMIZER, BAROMETRIC RELIEF DAMPER, SMOKE DETECTOR, COIL GUARDS, INTEGRATED DISCONNECT AND CONVENIENCE OUTLET. 15 IEER

(1) UNITS TO COME WITH ADAPT-A-CURB OR SIMILAR IF REQUIRED FOR NEW INSTALL. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND TAKE MEASUREMENTS PRIOR TO PURCHASE.

(2) AT 3700FT ELEVATION DERATE

(3) ALL CARRIER UNITS TO COME WITH IVU SYSTEM INTEGRATION AND CONNECT TO OWNER'S EXISTING PROGRAM.

(4) THIS ROOF TOP UNIT SUPPLY AND EXHAUST FAN TO RUN CONTINUOUSLY.

GRILLE AND REGISTER SCHEDULE

SYM.	TYPE	SIZE	CFM RANGE	THROW PATTERN	CONSTR.	FINISH	BRANCH DUCT	BALANCING DAMPER	MAX NC RATING	REMARKS
CD-1 CFM	SECURITY CEILING	24x24"	40-100		STEEL	BY ARCH	6"Ø	NO	25	PRICE MODEL MSD IN 24x24" SECURITY CEILING
CD-2 CFM	SECURITY CEILING	24x24"	110-225		STEEL	BY ARCH	8"Ø	NO	25	PRICE MODEL MSD IN 24x24" SECURITY CEILING
CD-3 CFM	SECURITY CEILING	24x24"	230-380		STEEL	BY ARCH	10"Ø	NO	25	PRICE MODEL MSD IN 24x24" SECURITY CEILING
CD-4 CFM	SECURITY CEILING	12x12"	175-225		STEEL	BY ARCH	8"Ø	NO	25	PRICE MODEL MSD
CD-5 CFM	CEILING	24x24"	40-100		STEEL	BY ARCH	6"Ø	NO	25	PRICE MODEL SMD IN 24x24" LAY-IN CEILING
CD-6 CFM	CEILING	24x24"	110-225		STEEL	BY ARCH	8"Ø	NO	25	PRICE MODEL SMD IN 24x24" LAY-IN CEILING
CD-7 CFM	CEILING	24x24"	230-380		STEEL	BY ARCH	10"Ø	NO	25	PRICE MODEL SMD IN 24x24" LAY-IN CEILING
CD-8 CFM	CEILING	8x8"	40-100		STEEL	BY ARCH	6"Ø	NO	30	PRICE MODEL SMD
DR-20 CFM	DUCT REGISTER	18x6	330-370	45° DEFLECTION	STEEL	BY ARCH	20"Ø	YES	30	PRICE MODEL SDG SPIRAL DUCT GRILLE
DEG-16 CFM	DUCT REGISTER	26x6	500	0°	STEEL	BY ARCH	16"Ø	YES	30	PRICE MODEL SDGR SPIRAL DUCT GRILLE
EG-1 CFM	CEILING	8x8"	50-100	N/A	STEEL	WHITE	6"Ø	YES	30	PRICE MODEL 10
EG-2 CFM	CEILING	8x8"	50-100	N/A	STEEL	WHITE	8x6"	YES	30	PRICE MODEL MSRRP
OL-1	OUTSIDE LOUVER	14x14"	250	N/A	ALUM	BY ARCH	14x14"	MOTORIZED DAMPER	N/A	GREENHECK EDJ-401-14x14. MAX PRESSURE DROP: 0.125". MAX VELOCITY: 700FPM.
PH-1	PENTHOUSE	22x22"	2400	N/A	ALUM	BY ARCH	22x22"	MOTORIZED DAMPER	N/A	GREENHECK WIH-22x22 INTAKE VENTIALTOR
RG-1	SECURITY CEILING	24x24"	125-450	N/A	STEEL	BY ARCH	10x10" SOUND BOOT	NO	25	PRICE MODEL MSRRP IN 24x24" SECURITY CEILING
RG-2	CEILING	12x24"	125-450	N/A	STEEL	WHITE	10x10" SOUND BOOT	NO	25	PRICE MODEL 10 IN 24x24" LAY-IN CEILING
RG-3	SECURITY CEILING	24x24"	455-1000	N/A	STEEL	BY ARCH	14x14" SOUND BOOT	NO	25	PRICE MODEL MSRRP IN 24x24" SECURITY CEILING
RG-4	SECURITY CEILING	10x10"	175-425	N/A	STEEL	BY ARCH	10x10" SOUND BOOT	NO	25	PRICE MODEL MSRRP
SD-1 CFM	SIDEWALL	14x14"	200-230	N/A	STEEL	BY ARCH	8"Ø	YES	30	PRICE MODEL MSBL SECURITY SIDWALL DIFFUSER
SD-1 CFM	SIDEWALL	16x16"	600-800	N/A	STEEL	BY ARCH	16x16"	YES	30	PRICE MODEL MSRRP
WC-1	WALL CAP	8"Ø	N/A	N/A	STEEL	BY ARCH	8"Ø	NO	N/A	

(1) DIFFUSER TO BE MOUNTED 12' AWAY FROM FLOOR.

07.12.24

DATE
Jul 12, 2024 ISSUE FOR PERMIT
Aug 02, 2024 ADDENDUM #1

AN ADDITION FOR:
TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
MECHANICAL SCHEDULES

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
(208) 736-8050 Fax: (208) 733-0950

PROFESSIONAL ENGINEER REGISTERED 18184 STATE OF IDAHO DAVID L HANSEN
Jul 12, 2024

Engineered Systems Associates
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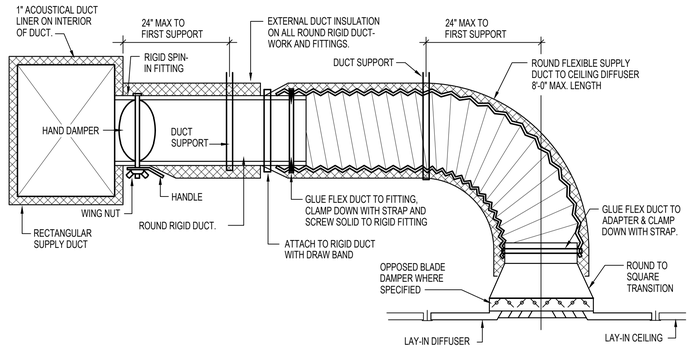
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 24048

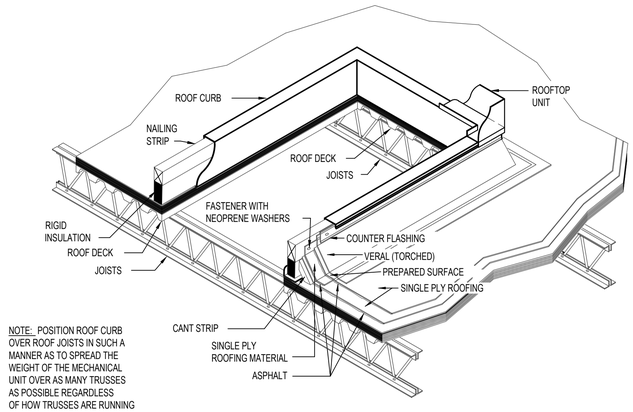
DATE: 07/12/2024
TD Drawn DLH Checked

M1A-2.1



CEILING DIFFUSER DETAIL WITH FLEXIBLE DUCT

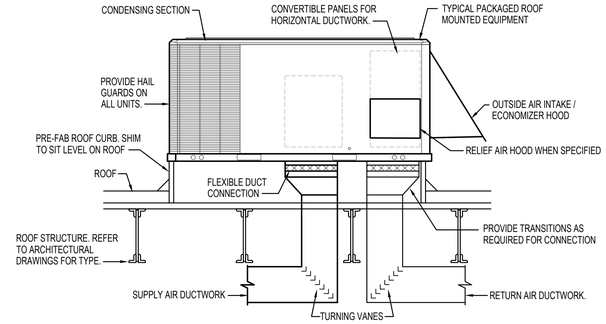
NO SCALE



NOTE: POSITION ROOF CURB OVER ROOF JOISTS IN SUCH A MANNER AS TO SPREAD THE WEIGHT OF THE MECHANICAL UNIT OVER AS MANY TRUSSES AS POSSIBLE REGARDLESS OF HOW TRUSSES ARE RUNNING

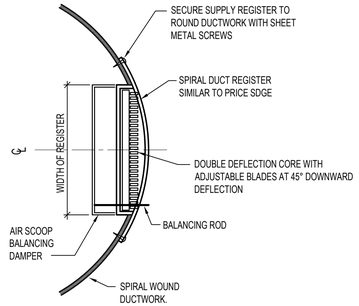
TYPICAL ROOFTOP MOUNTING DETAIL

NO SCALE



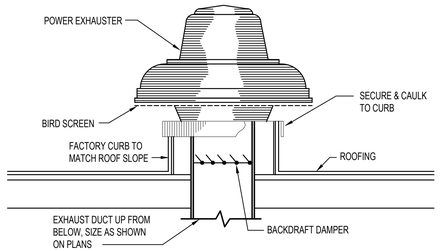
ROOF TOP HVAC UNIT DETAIL

NO SCALE



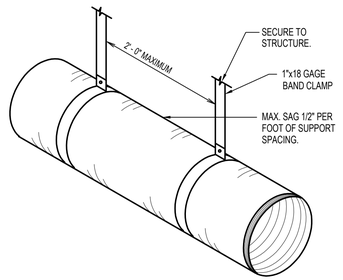
REGISTER INSTALLATION DETAIL

NO SCALE



ROOF TOP EXHAUST FAN DETAIL

NO SCALE



FLEXIBLE DUCT SUPPORT DETAIL

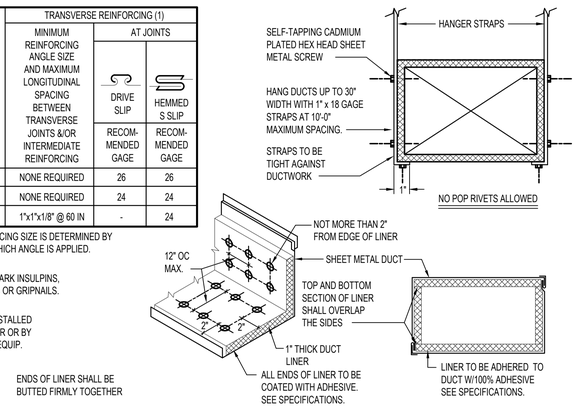
NO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1) MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS: DRIVE SLIP RECOM-MENDED GAGE	AT JOINTS: HEMMED S SLIP RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	26	26
13 - 18	24	NONE REQUIRED	24	24
19 - 30	24	1"x1"x1/8" @ 60 IN	-	24

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

METAL FASTENERS - OMARK INSULPINS, DURO DYNE FASTENERS OR GRIPNAILS.

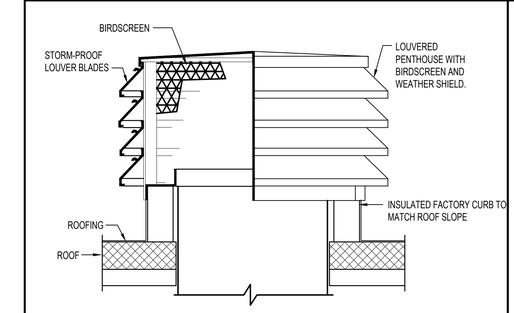
GRIP NAILS SHALL BE INSTALLED BY GRIPNAIL AIR HAMMER OR BY AUTOMATIC FASTENER EQUIP.



ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER

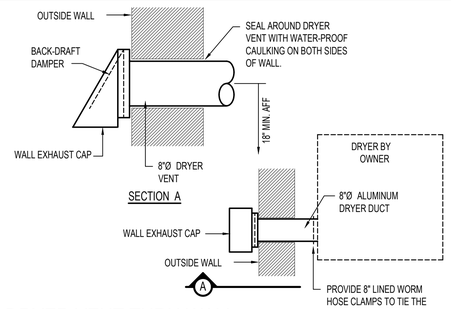
DUCT CONSTRUCTION AND HANGER DETAIL

NO SCALE



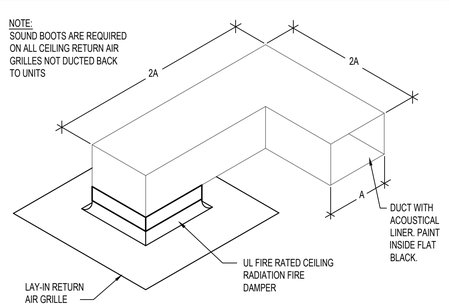
PENTHOUSE DETAIL

NO SCALE



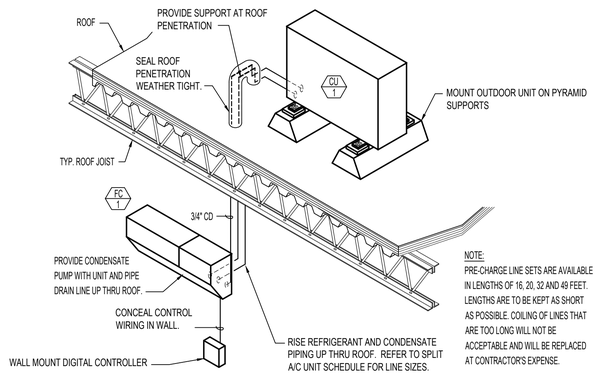
DRYER VENT THRU WALL

NO SCALE



SOUND BOOT DETAIL

NO SCALE



NOTE:
PRE-CHARGE LINE SETS ARE AVAILABLE IN LENGTHS OF 16, 20, 32 AND 49 FEET. LENGTHS ARE TO BE KEPT AS SHORT AS POSSIBLE. COILING OF LINES THAT ARE TOO LONG WILL NOT BE ACCEPTABLE AND WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

FAN COIL & REFRIGERANT PIPING DETAIL

NO SCALE

07.12.24

DATE	
Jul 12, 2024	ISSUE FOR PERMIT
Aug 02, 2024	ADDENDUM #1

AN ADDITION FOR:
TWIN FALLS COUNTY JAIL
2515 Wright Ave, Twin Falls, ID 83301
MECHANICAL DETAILS

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
(208) 736-8050 Fax: (208) 733-0950

PROFESSIONAL ENGINEER DAVID L. HANSEN 18184 STATE OF IDAHO
Jul 12, 2024

Engineered Systems Associates
1355 EAST CENTER
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PHONE: (208) 233-0501
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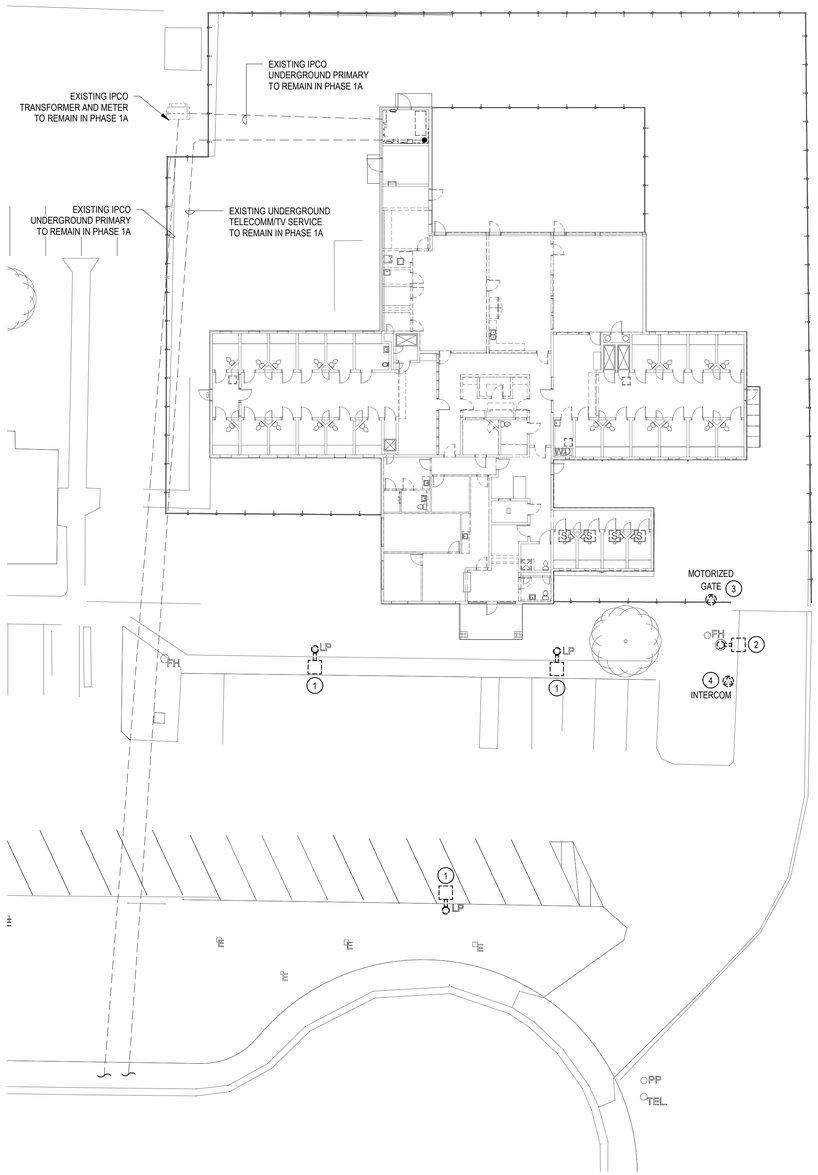
ESA JOB NUMBER: 24048

DATE: 07/12/2024
TD Drawn | DLH Checked

M1A-2.2

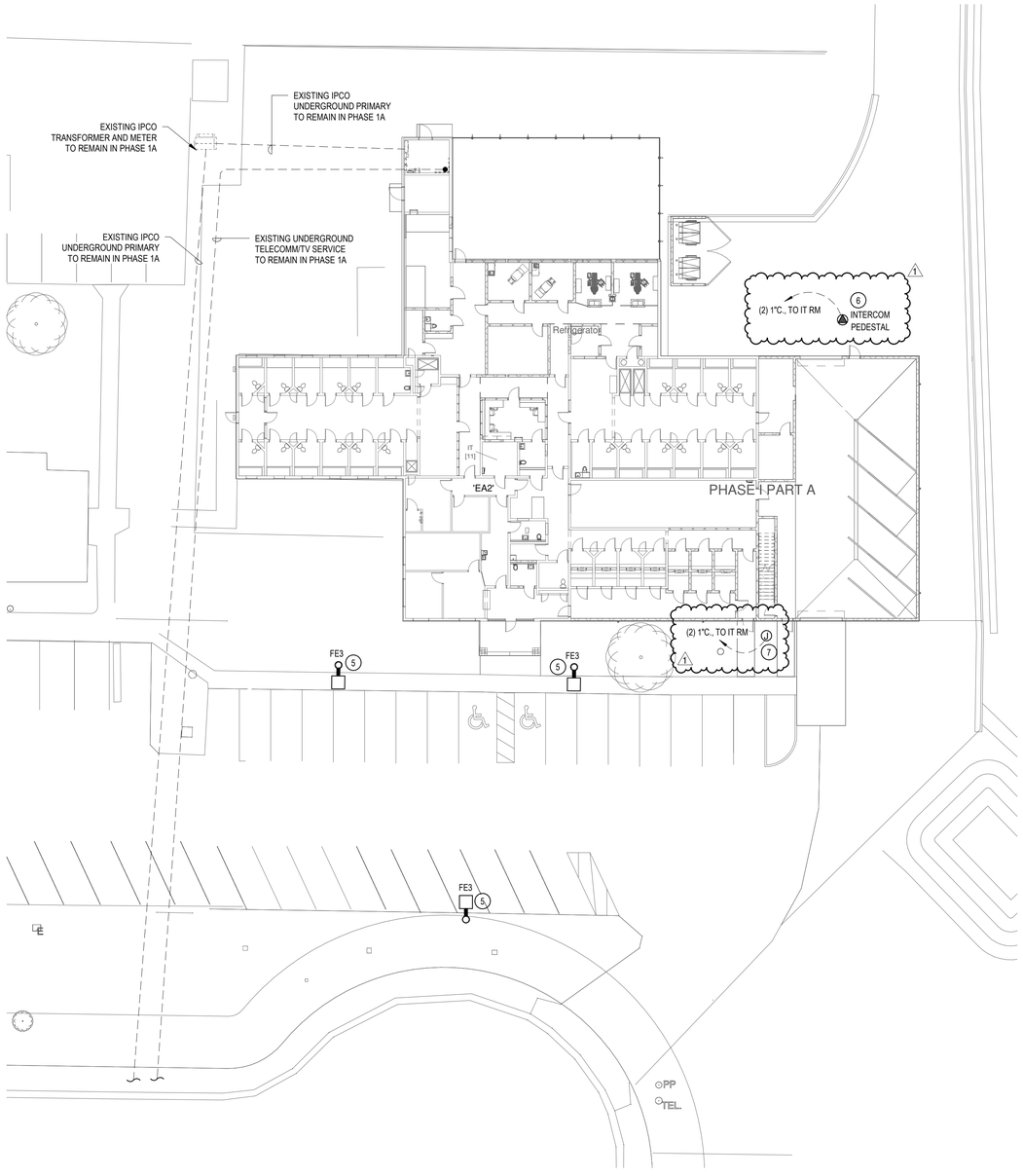


1 EXISTING - ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

0" 20' 40'

NORTH



2 NEW - ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

0" 20' 40'

NORTH

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDINB BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

(#) KEY NOTES:

1 E.C. SHALL DISCONNECT AND REMOVE EXISTING POLE LIGHT HEAD AND REPLACE WITH NEW AS INDICATED ON NEW DRAWING. FIELD VERIFY NEW HEAD IS COMPATIBLE WITH EXISTING POLE PRIOR TO ORDERING.

2 EXISTING POLE LIGHT AND BASE TO BE DISCONNECTED AND REMOVED IN IT'S ENTIRETY, EXISTING LIGHTING CIRCUIT SHALL BE MAINTAINED FOR CONNECTION TO NEW LIGHTING AS INDICATED ON NEW DRAWINGS. INSTALL IN-GRADE J-BOXES AS REQUIRED FOR SPLICING AND EXTENDING EXISTING CIRCUIT TO NEW POLE LIGHT LOCATIONS.

3 EXISTING MOTORIZED GATE TO BE DISCONNECTED AND REMOVED IN IT'S ENTIRETY. E.C SHALL MAINTAIN EXISTING UNDERGROUND CONDUITS FOR FUTURE USE AND STUB INTO NEW IN-GRADE, FIBERGLASS J-BOX WITH LID LABELED "ELECTRICAL". INSTALL LID FLUSH WITH FINISH GRADE. LOCATE BOX IN LANDSCAPE AREA THAT IS NOT IN CONFLICT WITH NEW CONSTRUCTION. COORDINATE WITH OWNER.

4 EXISTING SECURITY INTERCOM PEDESTAL TO BE DISCONNECTED AND REMOVED IN IT'S ENTIRETY. NEW INTERCOM PEDESTAL TO BE INSTALLED IN PHASE 1B, SEE NEW SITE PLAN.

5 INSTALL NEW HEAD ON EXISTING POLE; CONNECT TO EXISTING CIRCUIT AND CONTROLS. FIELD VERIFY COMPATIBILITY OF HEAD AND EXISTING POLE PRIOR TO ORDERING FIXTURE.

6 APPROX. LOCATION OF NEW INTERCOM PEDESTAL, E.C. SHALL FIELD VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. INSTALL (2) 1" C. W/ PULL STRING TO IT[11] FOR SYSTEM WIRING AS PART OF PHASE 1B.

7 NEW IN-GRADE, FIBERGLASS J-BOX WITH LID LABELED "ELECTRICAL" FOR FUTURE SITE AMENITIES. INSTALL LID FLUSH WITH FINISH GRADE. LOCATE BOX IN LANDSCAPE AREA THAT IS NOT IN CONFLICT WITH NEW CONSTRUCTION. PROVIDE CONDUIT AS INDICATED TO IT ROOM.

DATE	
07/12/2024	ISSUED FOR PERMIT
08/08/2024	ADDENDUM #1

PHASE 1 PART A FOR:

TWIN FALLS COUNTY - WRIGHT AVE JAIL

2515 Wright Ave, Twin Falls, ID 83301

ELECTRICAL SITE PLAN

Laughlin Ricks Architecture
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134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

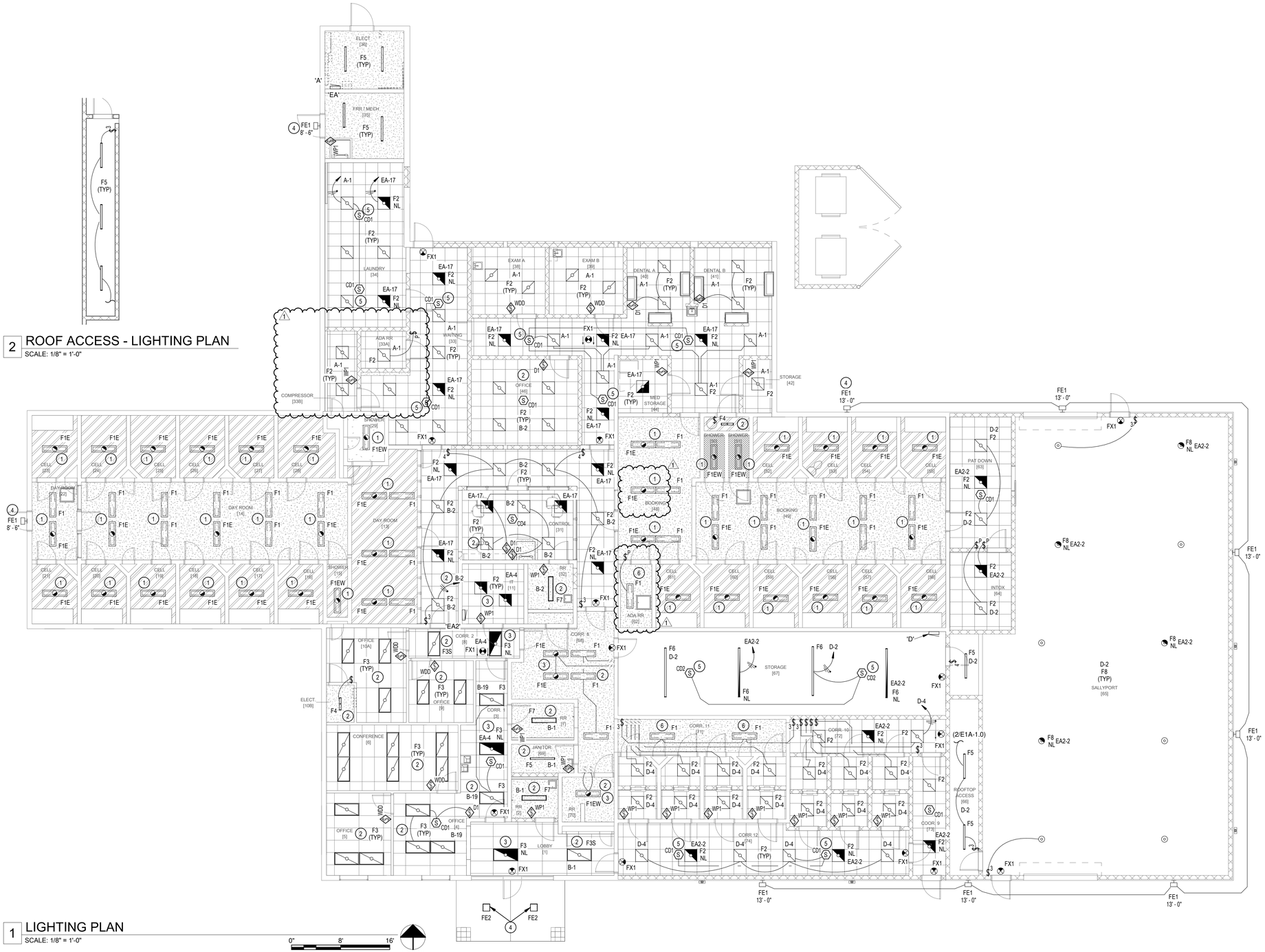
DATE: 7.12.24

SAM Drawn TEP Checked

#23029 PROJECT #

E1A-0.1

2 ROOF ACCESS - LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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

0" 8' 16'

NORTH

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDINB BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

(#) KEY NOTES:

1 E.C. SHALL MODIFY EXISTING CIRCUIT(S)/CONTROLS AS REQUIRED FOR CONNECTION TO NEW LIGHT FIXTURE, WHEN APPLICABLE CONNECT "NIGHT-LITE" TO EMERGENCY CIRCUIT AND FIXTURE TO "NORMAL" CIRCUIT. MAINTAIN EXISTING CONTROL FUNCTIONALITY VIA LIGHTING RELAY PANEL AND CONTROL CENTER.

2 CONNECT TO EXISTING "NORMAL" LIGHTING CIRCUIT IN AREA MADE AVAILABLE DURING DEMOLITION.

3 CONNECT TO EXISTING "EMERGENCY" LIGHTING CIRCUIT IN AREA MADE AVAILABLE DURING DEMOLITION.

4 CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT/CONTROLS.

5 CONNECT ALL OCCUPANCY SENSORS IN ROOM IN PARALLEL SO THAT ANY OCC. SENSOR WILL TURN ON ALL ROOM LIGHTING.

6 E.C. SHALL CONNECT NEW LIGHT FIXTURE TO EXISTING CIRCUIT/CONTROLS, PROVIDE NEW CONTROLS WHERE INDICATED.

DATE	
07/12/2024	ISSUED FOR PERMIT
08/09/2024	ADDENDUM #1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
LIGHTING PLAN

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

DATE: 7.12.24
SAM Drawn TEP Checked
#23029 PROJECT #

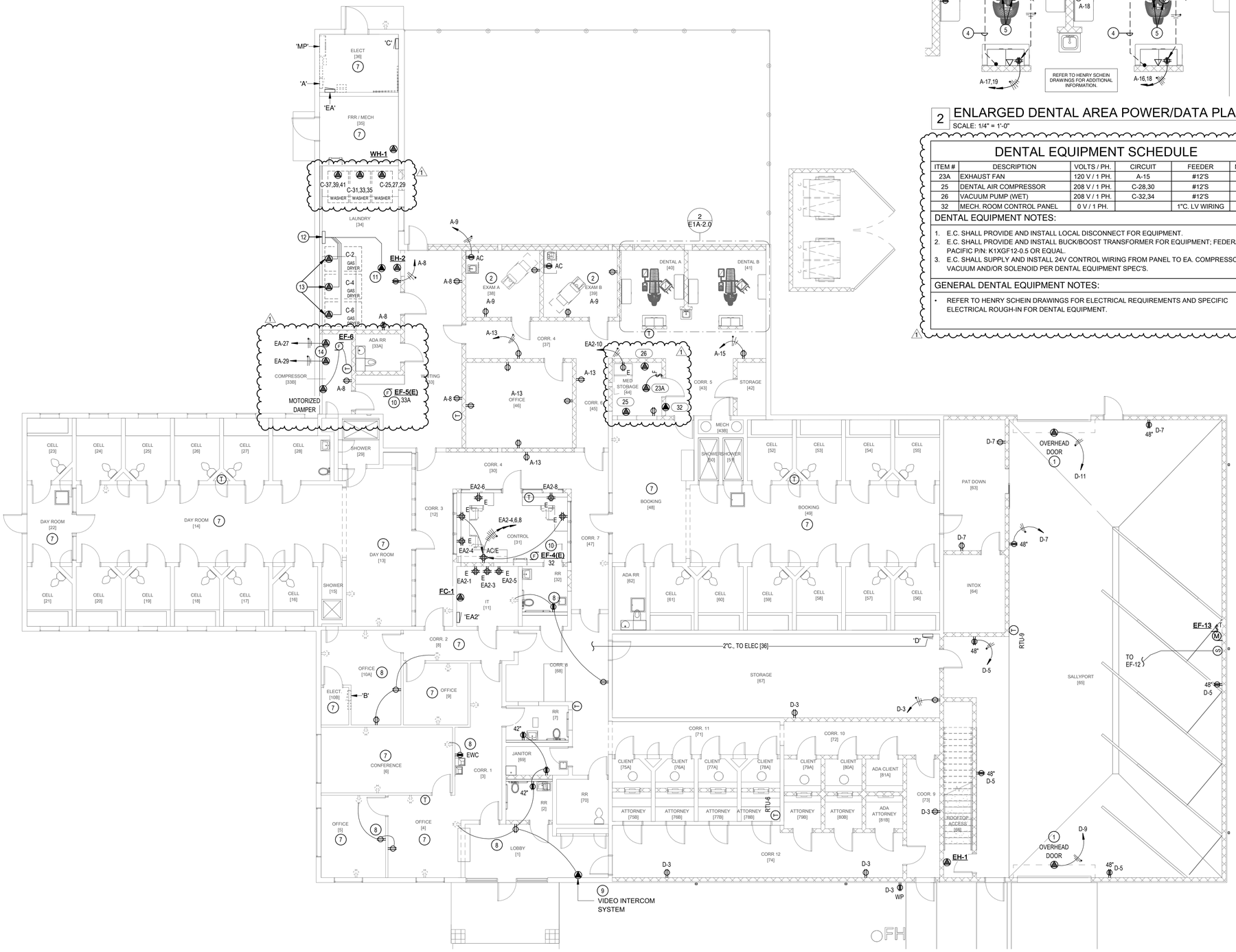
E1A-1.0

MECH. - ELECTRIC HEATER SCHEDULE

EQUIP. ID	VOLTS / PH.	WATTS	FLA	OCP	CIRCUIT	FEEDER	NOTES
EH-1	208 V / 1 PH.	2000 W	9.6 A	15 A	D - 21,23	1/2"C, 2#12, #12N, #12G	
EH-2	208 V / 3 PH.	4800 W	13.3 A	20 A	C - 19,21,23	1/2"C, 3#12, #12G	

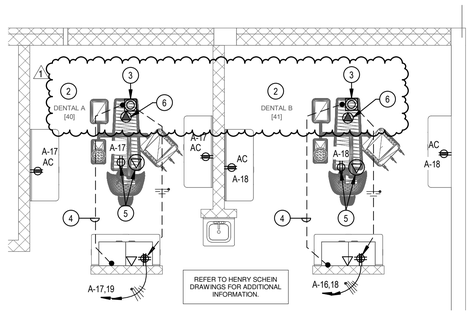
MECH. - PLUMBING EQUIP. SCHEDULE

EQUIP. ID	VOLTS / PH.	WATTS	FLA	CIRCUIT	FEEDER	DISCONNECT	NOTES
WH-1	120 V / 1 PH.	200 W	1.7 A	C - 8	1/2"C, 1#12, #12N, #12G	CORD/PLUG	



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

0" 8' 16'
NORTH



2 ENLARGED DENTAL AREA POWER/DATA PLAN

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

DENTAL EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION	VOLTS / PH.	CIRCUIT	FEEDER	NOTES
23A	EXHAUST FAN	120 V / 1 PH.	A-15	#12'S	
25	DENTAL AIR COMPRESSOR	208 V / 1 PH.	C-28,30	#12'S	2
26	VACUUM PUMP (WET)	208 V / 1 PH.	C-32,34	#12'S	1,2
32	MECH. ROOM CONTROL PANEL	0 V / 1 PH.		1"C. LV WIRING	3

DENTAL EQUIPMENT NOTES:

1. E.C. SHALL PROVIDE AND INSTALL LOCAL DISCONNECT FOR EQUIPMENT.
2. E.C. SHALL PROVIDE AND INSTALL BUCK/BOOST TRANSFORMER FOR EQUIPMENT; FEDERAL PACIFIC P/N: K1XGF12-0.5 OR EQUAL.
3. E.C. SHALL SUPPLY AND INSTALL 24V CONTROL WIRING FROM PANEL TO EA. COMPRESSOR, VACUUM AND/OR SOLENOID PER DENTAL EQUIPMENT SPEC'S.

GENERAL DENTAL EQUIPMENT NOTES:

- REFER TO HENRY SCHEIN DRAWINGS FOR ELECTRICAL REQUIREMENTS AND SPECIFIC ELECTRICAL ROUGH-IN FOR DENTAL EQUIPMENT.

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDINB BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

KEY NOTES:

1 CONNECTION TO OVERHEAD DOOR MOTOR, COORDINATE CONNECTION WITH EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE CONDUIT AND CONDUCTORS TO PUSH-BUTTON STATION PER MANUFACTURERS REQUIREMENTS.

2 ALL 120V CIRCUITS (EXCEPT LIGHTING) IN THIS ROOM SHALL BE PROVIDED WITH A REDUNDANT GROUND AS REQUIRED BY SECTION 517 OF THE NEC.

3 ELECTRICAL CONNECTION TO DENTAL CHAIR; COORDINATE EXACT STUB-UP LOCATION AND CONNECTION REQUIREMENTS WITH DENTAL EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. E.C. SHALL SAWCUT AND PATCH EXISTING SLAB AS REQUIRED FOR INSTALLATION.

4 PROVIDE AND INSTALL (1) 2" CONDUIT W/ PULLSTRING BETWEEN DENTAL CHAIR AND UTILITY CENTER. COORDINATE EXACT LOCATION OF STUB-UPS WITH EQUIPMENT SUPPLIER/CONTRACTOR PRIOR TO ROUGH-IN. E.C. SHALL SAWCUT AND PATCH EXISTING SLAB AS REQUIRED FOR INSTALLATION.

5 PROVIDE AND INSTALL 120V RECEPTACLE AND LOW VOLTAGE OUTLET FLUSH IN CEILING FOR TV. INSTALL DATA CABLING AS INDICATED AND RG6 COAX CABLE. COORDINATE EXACT LOCATION & REQUIREMENTS WITH DENTAL EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

6 CONNECTION TO DENTAL LIGHT PROVIDED/INSTALLED BY DENTAL EQUIPMENT CONTRACTOR, AND TIED INTO POWER FOR CHAIR.

7 ALL EXISTING ELECTRICAL DEVICES, ETC IN THIS ARE SHALL REMAIN ACTIVE, LOCATE AND PROTECT DURING CONSTRUCTION, UNLESS NOTED OTHERWISE OR AS INDICATED IN "SPECIAL DEMOLITION NOTES".

8 CONNECT TO EXISTING RECEPTACLE CIRCUIT IN AREA OR THAT WAS MADE AVAILABLE DURING DEMOLITION.

9 PROVIDE POWER CONNECTION AND DATA ROUGH-IN TO VIDEO INTERCOM SYSTEM; FIELD VERIFY HEIGHT AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

10 EXISTING EXHAUST FAN TO BE REPLACED WITH NEW BY M.C. E.C. PROVIDE NEW CIRCUIT AS INDICATED AND CONTROL WITH ASSOCIATED RESTROOM LIGHTING.

11 MOTORIZED DAMPER BY M.C. TO BE INTERLOCKED WITH OPERATION OF ANY DRYER BY E.C. COORDINATE INTERLOCKING REQUIREMENTS OF DAMPER AND GAS DRYERS WITH M.C.

12 E.C. SHALL PROVIDE AND INSTALL (3) CURRENT SENSOR RELAY'S (RIB FUNCTIONAL DEVICES OR EQUAL) ONE FOR EACH GAS DRYER AND INSTALL IN A NEMA 1 ENCLOSURE FOR INTERLOCKING WITH MOTORIZED DAMPER. ROUTE EACH DRYER CIRCUIT THROUGH CURRENT SENSOR, IF ANY DRYER IS IN OPERATION RELAY SHALL OPEN MOTORIZED DAMPER. PROVIDE ALL COMPONENTS FOR COMPLETE INSTALLATION.

13 PROVIDE LOCAL DISCONNECT FOR EQUIPMENT, FIELD LOCATE IN ACCESSIBLE LOCATION.

14 CONNECTION TO DOOR SYSTEM AIR COMPRESSOR(S), E.C. SHALL FIELD VERIFY EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT PRIOR TO ROUGH-IN.

DATE	
07/12/2024	ISSUED FOR PERMIT
08/08/2024	ADDENDUM #1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
POWER PLAN

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

DATE: 7.12.24

SAM	TEP
Drawn	Checked

#23029
PROJECT #

E1A-2.0

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

MECH. - SPLIT SYSTEM A/C UNIT SCHEDULE

EQUIP. ID	VOLTS / PH.	MCA	MOCP	CIRCUIT	FEEDER	DISCONNECT	NOTES
INDOOR UNIT							
FC-1	208 V / 1 PH.	1 A	0 A		PER MFGR	0 A - N/A	4
OUTDOOR UNIT							
CU-1	208 V / 1 PH.	14 A	25 A	EA2 - 27,29	1/2"C.,2#10+1#10G	30 A - NONFUSED/3R	3,4

MECH. - EXHAUST FAN SCHEDULE

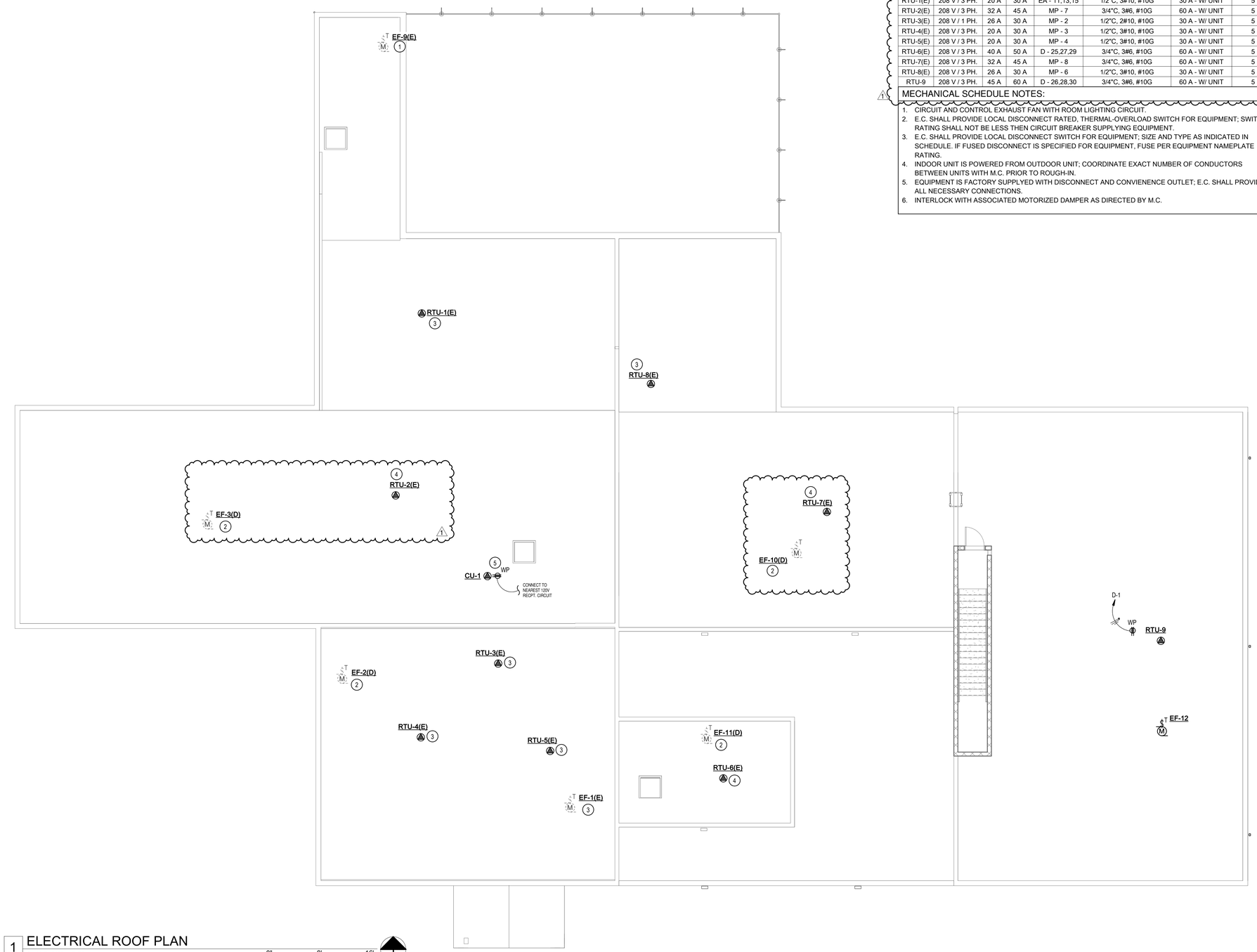
EQUIP. ID	VOLTS / PH.	HP	WATTS	FLA	CIRCUIT	FEEDER	CONTROL	NOTES
EF-1(E)	120 V / 1 PH.	1/4		6 A	B - 14	1/2"C, 1#12, #12N, #12G	24/7 CONTINUOUS	2
EF-4(E)	120 V / 1 PH.	N/A	100 W	1 A	B - 2	1/2"C, 1#12, #12N, #12G	W/LIGHTS	1
EF-5(E)	120 V / 1 PH.	N/A	100 W	1 A	A - 1	1/2"C, 1#12, #12N, #12G	W/LIGHTS	1
EF-6	120 V / 1 PH.	N/A	127 W	1 A	EA - 25	1/2"C, 1#12, #12N, #12G	COOLING T-STAT	7
EF-9(E)	120 V / 1 PH.	1/2		10 A				
EF-12	120 V / 1 PH.	3/4		14 A	D - 19	1/2"C, 1#12, #12N, #12G	CO SENSOR BY M.C.	2
EF-13	120 V / 1 PH.	1/4		6 A	D - 17	1/2"C, 1#12, #12N, #12G	24/7 CONTINUOUS	2

MECH. - ROOFTOP UNIT SCHEDULE

EQUIP. ID	VOLTS / PH.	MCA	MOCP	CIRCUIT	FEEDER	DISCONNECT	NOTES
RTU-1(E)	208 V / 3 PH.	20 A	30 A	EA - 11,13,15	1/2"C, 3#10, #10G	30 A - W/ UNIT	5
RTU-2(E)	208 V / 3 PH.	32 A	45 A	MP - 7	3/4"C, 3#6, #10G	60 A - W/ UNIT	5
RTU-3(E)	208 V / 1 PH.	26 A	30 A	MP - 2	1/2"C, 2#10, #10G	30 A - W/ UNIT	5
RTU-4(E)	208 V / 3 PH.	20 A	30 A	MP - 3	1/2"C, 3#10, #10G	30 A - W/ UNIT	5
RTU-5(E)	208 V / 3 PH.	20 A	30 A	MP - 4	1/2"C, 3#10, #10G	30 A - W/ UNIT	5
RTU-6(E)	208 V / 3 PH.	40 A	50 A	D - 25,27,29	3/4"C, 3#6, #10G	60 A - W/ UNIT	5
RTU-7(E)	208 V / 3 PH.	32 A	45 A	MP - 8	3/4"C, 3#6, #10G	60 A - W/ UNIT	5
RTU-8(E)	208 V / 3 PH.	26 A	30 A	MP - 6	1/2"C, 3#10, #10G	30 A - W/ UNIT	5
RTU-9	208 V / 3 PH.	45 A	60 A	D - 26,28,30	3/4"C, 3#6, #10G	60 A - W/ UNIT	5

MECHANICAL SCHEDULE NOTES:

1. CIRCUIT AND CONTROL EXHAUST FAN WITH ROOM LIGHTING CIRCUIT.
2. E.C. SHALL PROVIDE LOCAL DISCONNECT RATED, THERMAL-OVERLOAD SWITCH FOR EQUIPMENT; SWITCH RATING SHALL NOT BE LESS THEN CIRCUIT BREAKER SUPPLYING EQUIPMENT.
3. E.C. SHALL PROVIDE LOCAL DISCONNECT SWITCH FOR EQUIPMENT; SIZE AND TYPE AS INDICATED IN SCHEDULE. IF FUSED DISCONNECT IS SPECIFIED FOR EQUIPMENT, FUSE PER EQUIPMENT NAMEPLATE RATING.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT; COORDINATE EXACT NUMBER OF CONDUCTORS BETWEEN UNITS WITH M.C. PRIOR TO ROUGH-IN.
5. EQUIPMENT IS FACTORY SUPPLYED WITH DISCONNECT AND CONVIENENCE OUTLET; E.C. SHALL PROVIDE ALL NECESSARY CONNECTIONS.
6. INTERLOCK WITH ASSOCIATED MOTORIZED DAMPER AS DIRECTED BY M.C.



1 ELECTRICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

0" 8' 16'

NORTH

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDINB BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

(#) KEY NOTES:

1 EXISTING ROOFTOP HVAC EQUIPMENT TO REMAIN ACTIVE, LOCATE AND PROTECT.

2 EXISTING ROOFTOP HVAC EQUIPMENT TO BE DEMOLISHED BY M.C., E.C. SHALL DISCONNECT AND REMOVE ALL ASSOCIATED CONDUIT/CONDUCTORS AS REQUIRED FOR REMOVAL.

3 EXISTING ROOFTOP HVAC EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW BY M.C. E.C. SHALL ELECTRICALLY DISCONNECT FOR REMOVAL AND RECONNECT NEW UNIT TO EXISTING CIRCUIT. E.C. SHALL FIELD VERIFY EXISTING BREAKER OR FUSE SIZE AND REPLACE AS NEEDED TO MATCH "MOCP" IN SCHEDULE.

4 EXISTING ROOFTOP HVAC EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW LARGER UNIT BY M.C. E.C. SHALL ELECTRICALLY DISCONNECT FOR REMOVAL AND REMOVED ASSOCIATED CIRCUIT.. E.C. SHALL PROVIDE AND INSTALL NEW CIRCUIT AS INDICATED IN SCHEDULE.

5 RECEPTACLE MOUNTED TO HVAC UNIT, COORDINATE MOUNTING WITH M.C. PRIOR TO ROUGH-IN.

DATE	
07/12/2024	ISSUED FOR PERMIT
08/08/2024	ADDENDUM #1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
ELECTRICAL ROOF PLAN

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

DATE: 7.12.24

SAM Drawn | TEP Checked

#23029 PROJECT #

E1A-2.1

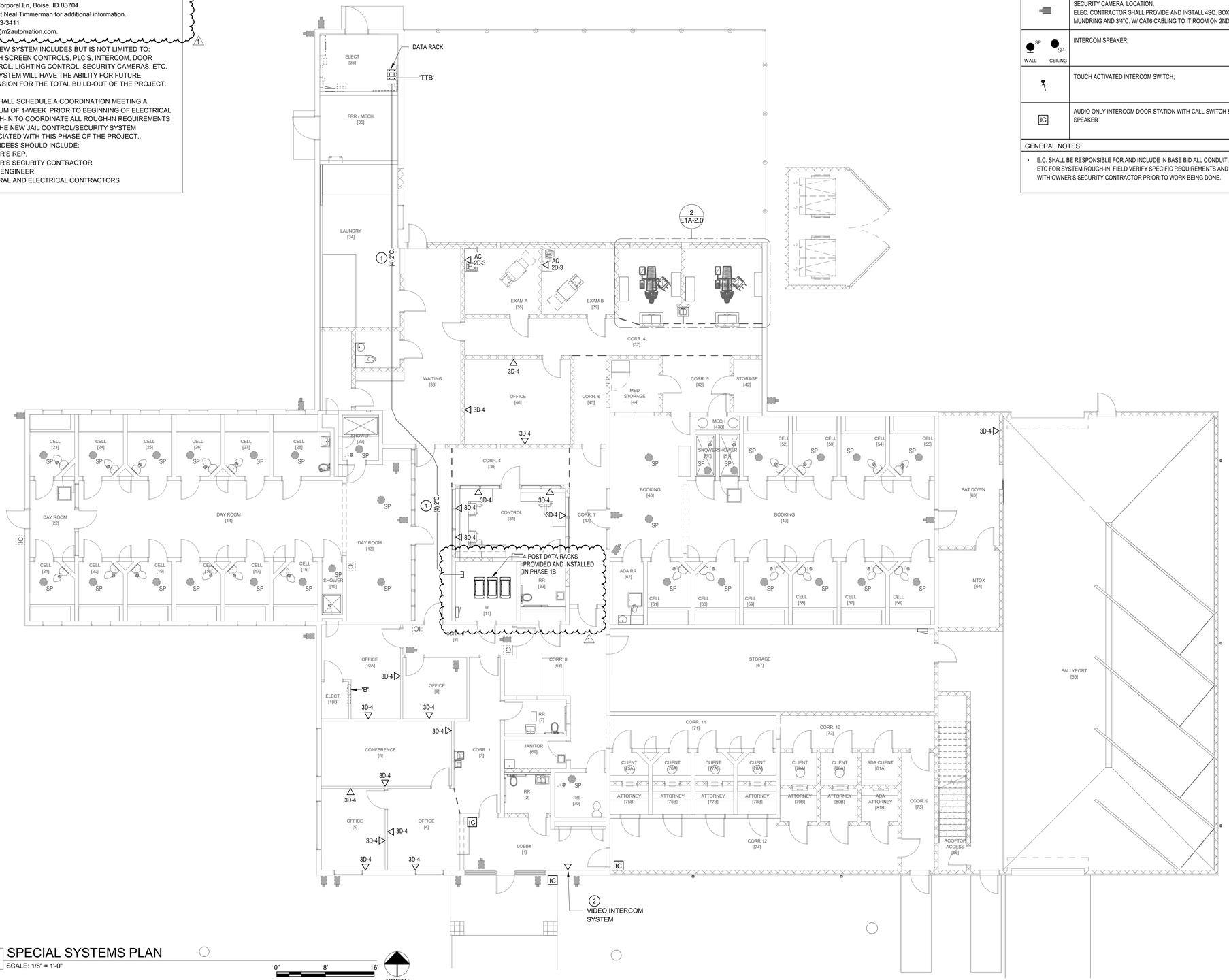
JAIL CONTROL & SECURITY SYSTEMS:

- THE BUILDING EXISTING JAIL CONTROL/SECURITY SYSTEM SHALL BE COMPLETELY REMOVED IN PREPREATION FOR A NEW SYSTEM THAT IS TO BE INCLUDED IN PHASE 1B OF THE PROJECT.

- THE NEW JAIL CONTROL/SECURITY SYSTEM DESIGN FOR THIS IS BUILDING WILL BE COMPLETED AS PART OF PHASE 1B CONSTRUCTION DOCUMENTS.
  THE JAIL SYSTEMS INTEGRATION CONTROL PLATFORM FOR THIS PROJECT SHATL BE THE **PEREGRINE PLATFORM** BY M2 Automation & Control Services, Inc. located at:
  6067 Corporal Ln, Boise, ID 83704.
  Contact Neal Timmerman for additional information.
  208-853-3411
  office@m2automation.com.

- THE NEW SYSTEM INCLUDES BUT IS NOT LIMITED TO; TOUCH SCREEN CONTROLS, PLC'S, INTERCOM, DOOR CONTROL, LIGHTING CONTROL, SECURITY CAMERAS, ETC. THE SYSTEM WILL HAVE THE ABILITY FOR FUTURE EXPANSION FOR THE TOTAL BUILD-OUT OF THE PROJECT.

- E.C. SHALL SCHEDULE A COORDINATION MEETING A MINIMUM OF 1-WEEK PRIOR TO BEGINNING OF ELECTRICAL ROUGH-IN TO COORDINATE ALL ROUGH-IN REQUIREMENTS FOR THE NEW JAIL CONTROL/SECURITY SYSTEM ASSOCIATED WITH THIS PHASE OF THE PROJECT..
  ATTENDEES SHOULD INCLUDE:
  OWNER'S REP.
  OWNER'S SECURITY CONTRACTOR
  ELEC. ENGINEER
  GENERAL AND ELECTRICAL CONTRACTORS



1 SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

0" 8' 16'
NORTH

JAIL CONTROL & SECURITY SYMBOL SCHEDULE

NOTE: ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
CR	CARD READER LOCATION; ELEC. CONTRACTOR SHALL PROVIDE AND INSTALL 4SQ. BOX W/1-GANG MUNDRING AND 3/4"C. W/ PULL STRING TO IT ROOM ON 2ND FLOOR.
Ⓒ	CONNECTION TO DOOR FRAME FOR ACCESS CONTROL; ELEC. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4"C. W/ PULL STRING FROM DOOR FRAME TO IT ROOM ON 2ND FLOOR.
	SECURITY CAMERA LOCATION; ELEC. CONTRACTOR SHALL PROVIDE AND INSTALL 4SQ. BOX W/1-GANG MUNDRING AND 3/4"C. W/ CAT6 CABLING TO IT ROOM ON 2ND FLOOR.
SP WALL / SP CEILING	INTERCOM SPEAKER;
	TOUCH ACTIVATED INTERCOM SWITCH;
IC	AUDIO ONLY INTERCOM DOOR STATION WITH CALL SWITCH & 2-WAY SPEAKER

GENERAL NOTES:

- E.C. SHALL BE RESPONSIBLE FOR AND INCLUDE IN BASE BID ALL CONDUIT, BACKBOXES ETC FOR SYSTEM ROUGH-IN. FIELD VERIFY SPECIFIC REQUIREMENTS AND LOCATIONS WITH OWNER'S SECURITY CONTRACTOR PRIOR TO WORK BEING DONE.

GENERAL NOTES:

A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDINB BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

(#) KEY NOTES:

1 IN (1) 2"C., PROVIDE AND INSTALL 12-STRAND, SINGLE-MODE FIBER OPTIC BACKBONE CABLE IN INNER-DUCT FROM ELECT. ROOM TO NEW IT ROOM. PROVIDE ALL REQUIRED TERMINATIONS, LIU'S, PATCH PANELS AND ETC NEEDED TO EXTEND DATA CABLING SYSTEM.

2 PROVIDE POWER CONNECTION AND DATA ROUGH-IN TO VIDEO INTERCOM SYSTEM; FIELD VERIFY HEIGHT AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

DATE	
07/12/2024	ISSUED FOR PERMIT
08/09/2024	ADDENDUM #1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
SPECIAL SYSTEMS PLAN

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

DATE: 7.12.24

SAM Drawn | TEP Checked

#23029 PROJECT #

E1A-3.0

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

KEY NOTES:

1 E.C. SHALL DISCONNECT AND REMOVED EXISTING EMERGENCY GENERATOR, TRANSFER SWITCH AND ALL ASSOCIATED CONDUIT ETC. IN IT'S ENTIRETY.

2 EXISTING ELECTRICAL PANEL TO BE DISCONNECTED/REMOVED AND REPLACED WITH NEW AS INDICATED. REFER RISER DIAGRAM AND PANEL SCHEDULES. E.C. SHALL DISCONNECT ALL EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN AND RECONNECT TO NEW PANEL. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL AS REQUIRED.

PANEL: MP

PAYNE ENGINEERING

LOCATION: | **VOLTAGE:** 120/208 Wye | **SCCR:** 0 | **PROJECT:** TWIN FALLS COUNTY - WRIGHT AVE JAIL
FED FROM: | **PHASES:** 3 | **TYPE:** FS 350A
MOUNTING: SURFACE | **WIRES:** 4 | **BUS AMPS:** 600
ENCLOSURE: NEMA 1 | **BUSSING:** SEE SPEC'S | **FEED:** BOTTOM
MFG/MODEL: EATON/PRL4F | **DIMENSIONS:** 40"W x 11.5"D x **"H

NOTES:
EXISTING FUSED PANEL TO REMAIN 1

CKT	CIRCUIT DESCRIPTION	# OF POLES	BUCKET AMPS	FUSE AMPS	LOAD	REMARKS
1	SPARE	3	20 A	20 A	0 kW	
2	HVAC RTU-3(E)	2	30 A	30 A	4 kW	
3	HVAC RTU-4(E)	3	30 A	30 A	6 kW	
4	HVAC RTU-5(E)	3	30 A	30 A	6 kW	
5	SPARE	3	20 A	20 A	0 kW	
6	HVAC RTU-8(E)	3	30 A	30 A	7 kW	
7	HVAC RTU-2(E)	3	45 A	45 A	9 kW	
8	HVAC RTU-7(E)	3	45 A	45 A	9 kW	
9	PANEL B	3	100 A	100 A	3 kW	
10	PANEL A	3	100 A	100 A	7 kW	
				TOTAL LOAD:	52 kW	
				TOTAL AMPS:	145 A	
				TOTAL ESTIMATED DEMAND AMPS:	146 A	

PANEL: C

PAYNE ENGINEERING

LOCATION: | **VOLTAGE:** 120/208 Wye | **SCCR:** 22,000 | **PROJECT:** TWIN FALLS COUNTY - WRIGHT AV...
FED FROM: | **PHASES:** 3 | **TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **BUS AMPS:** 225
ENCLOSURE: NEMA 1 | **BUSSING:** SEE SPEC'S | **FEED:** TOP
MFG & MODEL: SQ. D/NQ SERIES | **DIMENSIONS:** 20"W x 5.8"D x **"H

NOTES:

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A		B		C		P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	(E) Rooftop Fan	--	20 A	1	0	1000					1	20 A	G	Gas Dryer	2
3	(E) Lights	--	20 A	1			0	1000			1	20 A	G	Gas Dryer	4
5	SPARE	--	20 A	1					0	1000	1	20 A	G	Gas Dryer	6
7	SPARE	--	20 A	1	0	200					1	20 A		Gas Water Htr	8
9	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	10
11	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	18
19					1600	0					1	20 A	--	SPARE	20
21	Elec. Heating		20 A	3			1600	0							22
23									1600	0	3	40 A	--	SPARE	24
25					1333	0									26
27	Washer	G	20 A	3			1333	1040			2	20 A		Dental Comp.	28
29									1333	1040					30
31					1333	1248					2	20 A		Dental Vacuum	32
33	Washer	G	20 A	3			1333	1248							34
35									1333	--	1	--	--	PREPARED SPACE	36
37					1333	--					1	--	--	PREPARED SPACE	38
39	Washer	G	20 A	3			1333	--			1	--	--	PREPARED SPACE	40
41									1333	--	1	--	--	PREPARED SPACE	42
					TOTAL LOAD:		8.0 kVA		8.9 kVA		7.6 kVA				
					TOTAL AMPS:		68 A		75 A		64 A				
					TOTAL ESTIMATED DEMAND AMPS:				68 A						

BRK NOTES:
A = ARC-FAULT BREAKER | GP = GFEPD BREAKER | LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
S = SHUNT-TRIP BREAKER | G = GFCI BREAKER | N = NEW CIRCUIT BREAKER, SIZE/TYPE AS INDICATED

PANEL: D

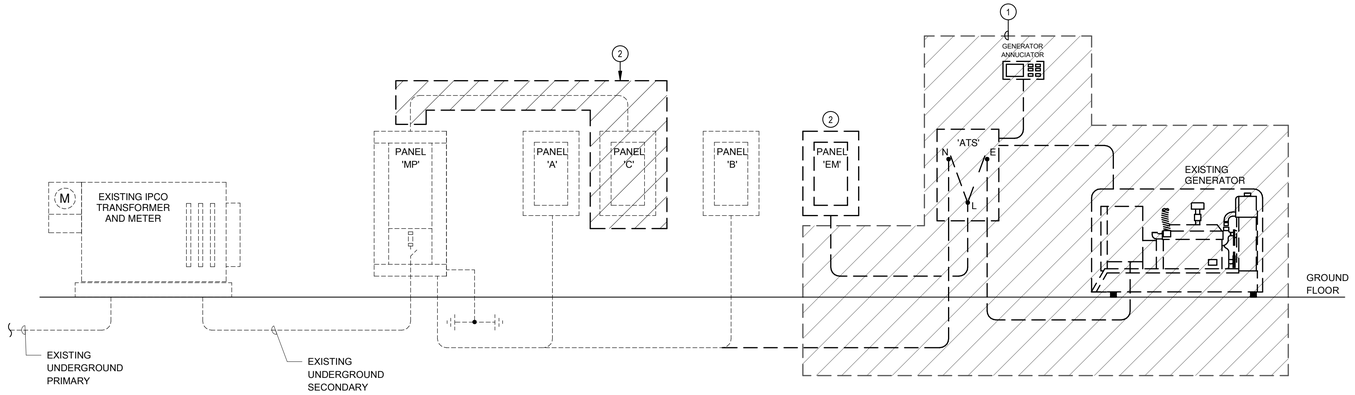
PAYNE ENGINEERING

LOCATION: | **VOLTAGE:** 120/208 Wye | **SCCR:** 10,000 | **PROJECT:** TWIN FALLS COUNTY - WRIGHT AV...
FED FROM: | **PHASES:** 3 | **TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **BUS AMPS:** 225
ENCLOSURE: NEMA 1 | **BUSSING:** SEE SPEC'S | **FEED:** TOP
MFG & MODEL: SQ. D/NQ SERIES | **DIMENSIONS:** 20"W x 5.8"D x **"H

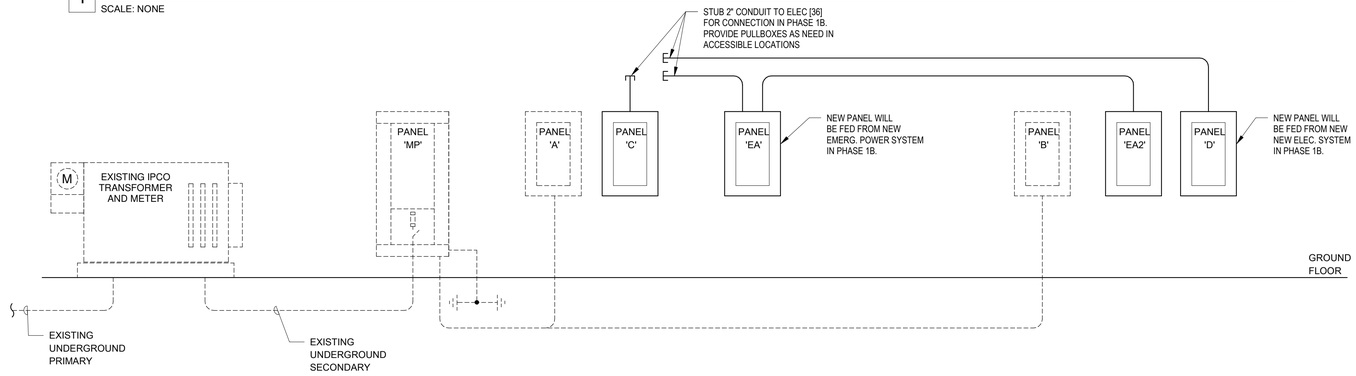
NOTES:

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A		B		C		P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	Receptacle - Rooftop		20 A	1	180	975					1	20 A		Lighting	2
3	Receptacle		20 A	1			1080	735			1	20 A		Lighting	4
5	Receptacle		20 A	1					720	0	1	20 A	--	SPARE	6
7	Receptacle		20 A	1	720	0					1	20 A	--	SPARE	8
9	Overhead Door		20 A	1			1200	0			1	20 A	--	SPARE	10
11	Overhead Door		20 A	1					1200	0	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	16
17	Sally Port EF		20 A	1					696	0	1	20 A	--	SPARE	18
19	Sally Port EF		20 A	1	1656	0					1	20 A	--	SPARE	20
21	Elec. Heating		15 A	2			1000	0			1	20 A	--	SPARE	22
23									1000	0	1	20 A	--	SPARE	24
25					3843	4323									26
27	HVAC RTU-6(E)		50 A	3			3843	4323			3	60 A		HVAC RTU-9	28
29									3843	4323					30
					TOTAL LOAD:		11.7 kVA		12.2 kVA		11.8 kVA				
					TOTAL AMPS:		97 A		102 A		98 A				
					TOTAL ESTIMATED DEMAND AMPS:				100 A						

BRK NOTES:
A = ARC-FAULT BREAKER | GP = GFEPD BREAKER | LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
S = SHUNT-TRIP BREAKER | G = GFCI BREAKER | R = RED HANDLED, LOCK-OUT TYPE



1 EXISTING POWER RISER DIAGRAM
SCALE: NONE



2 NEW POWER RISER DIAGRAM
SCALE: NONE

PANEL: EA

PAYNE ENGINEERING

LOCATION: | **VOLTAGE:** 120/208 Wye | **SCCR:** 10,000 | **PROJECT:** TWIN FALLS COUNTY - WRIGHT AV...
FED FROM: | **PHASES:** 3 | **TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **BUS AMPS:** 200
ENCLOSURE: NEMA 1 | **BUSSING:** SEE SPEC'S | **FEED:** TOP
MFG & MODEL: SQ. D/NQ SERIES | **DIMENSIONS:** 20"W x 5.8"D x **"H

NOTES:

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A		B		C		P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	(E) EXTERIOR LIGHTS	--	20 A	1	0	0					1	20 A	--	(E) WEST WING	2
3	SPARE	--	20 A	1			0	190			1	20 A		(E) Lighting - SouthWing	4
5	(E) MECH/ELEC. LIGHTS	--	20 A	1					0	0	2	20 A	--	SPARE	6
7	(E) ELEC. RECPT.	--	20 A	1	0	0									8
9	(E) TELECOMM RECPT.	--	20 A	1			0	500			1	20 A		FACP	10
11									1921	0	1	20 A	--	(E) DOOR LOCKS	12
13	HVAC - RTU-1(E)		30 A	3	1921	0					1	20 A	--	(E) SEC. INTERCOM	14
15							1921	0			1	20 A	--	(E) CCTV	16
17	Lighting		20 A	1					525	0	2	40 A	--	(E) AIR COMPRESSOR	18
19	SPARE	--	20 A	1	0	0									20
21	(E) E. WING LIGHTS	--	20 A	1			0	0			1	20 A	--	SPARE	22
23	(E) HVAC EQUIP.	--	20 A	1					0	0	1	20 A	--	SPARE	24
25	Comp. Room EF		20 A	1	227	--					1	--	--	PREPARED SPACE	26
27	Door Air Comp.		20 A	1			1000	--			1	--	--	PREPARED SPACE	28
29	Door Air Comp.		20 A	1					1000	--	1	--	--	PREPARED SPACE	30
31	SPARE	--	20 A	1	0	--					1	--	--	PREPARED SPACE	32
33	SPARE	--	20 A	1			0	--			1	--	--	PREPARED SPACE	34
35	SPARE	--	20 A	1					0	--	1	--	--	PREPARED SPACE	36
37					1850	--					1	--	--	PREPARED SPACE	38
39	Panel EA2		60 A	3			2425	--			1	--	--	PREPARED SPACE	40
41									2245	--	1	--	--	PREPARED SPACE	42
					TOTAL LOAD:		4.0 kVA		6.0 kVA		5.7 kVA				
					TOTAL AMPS:		33 A		52 A		50 A				
					TOTAL ESTIMATED DEMAND AMPS:				44 A						

BRK NOTES:
A = ARC-FAULT BREAKER | GP = GFEPD BREAKER | LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
S = SHUNT-TRIP BREAKER | G = GFCI BREAKER | R = RED HANDLED, LOCK-OUT TYPE

PANEL: EA2

PAYNE ENGINEERING

LOCATION: | **VOLTAGE:** 120/208 Wye | **SCCR:** 10,000 | **PROJECT:** TWIN FALLS COUNTY - WRIGHT AV...
FED FROM: EA | **PHASES:** 3 | **TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **BUS AMPS:** 100
ENCLOSURE: NEMA 1 | **BUSSING:** SEE SPEC'S | **FEED:** TOP
MFG & MODEL: SQ. D/NQ SERIES | **DIMENSIONS:** 20"W x 5.8"D x **"H

NOTES:

CKT	CIRCUIT DESCRIPTION	NOTE	AMPS	P	A		B		C		P	AMPS	NOTE	CIRCUIT DESCRIPTION	CKT
1	Receptacle - IT Rm		20 A	1	360	770					1	20 A		Lighting	2
3	Receptacle - IT Rm		20 A	1			360	720			1	20 A		Receptacle	4
5	Receptacle - IT Rm		20 A	1					360	720	1	20 A		Receptacle	6
7	SPARE	--	20 A	1	0	720					1	20 A		Receptacle	8
9	SPARE	--	20 A	1			0	180			1	20 A		Receptacle	10
11	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	20
21	PREPARED SPACE	--	--	1			--								22
23	PREPARED SPACE	--	--	1					--	--	1	--	--	PREPARED SPACE	24
25	PREPARED SPACE	--	--	1	--	--					1	--	--	PREPARED SPACE	26
27	HVAC CU-1		20 A	2			1165	--			1	--	--	PREPARED SPACE	28
29									1165	--	1	--	--	PREPARED SPACE	30
					TOTAL LOAD:		1.9 kVA		2.4 kVA		2.2 kVA				
					TOTAL AMPS:		15 A		21 A		19 A				
					TOTAL ESTIMATED DEMAND AMPS:				18 A						

BRK NOTES:
A = ARC-FAULT BREAKER | GP = GFEPD BREAKER | LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL
S = SHUNT-TRIP BREAKER | G = GFCI BREAKER | R = RED HANDLED, LOCK-OUT TYPE

DATE
07/12/2024 ISSUED FOR PERMIT
08/08/2024 1 ADDENDUM #1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
POWER RISER DIAGRAMS & SCHEDULES

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

DATE: 7.12.24
SAM Drawn | TEP Checked
#23029 PROJECT #

E1A-5.0

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	VOLTS	WATTS	LUMENS	COLOR TEMP.(K)	MFGR.	CATALOG #	APPROVED MFGR'S	NOTES
F1	1X4 SURFACE HIGH SECURITY CORRECTIONAL LED	SURFACE	120/277	45 W	4450	4000	FAIL-SAFE	FUSL-X12-4-LD4-1HI-40-UNV-80/86-EDC1	KENALL, NEW STAR	
F1E	1X4 SURFACE HIGH SECURITY CORRECTIONAL LED, W/NIGHT-LITE	SURFACE	120/277	45 W	4450	4000	FAIL-SAFE	FUSL-X12-4-LD4-1HI-40-UNV-80/86-EDC2-LLNL	KENALL, NEW STAR	
F1EW	1X4 SURFACE HIGH SECURITY CORRECTIONAL LED, W/NIGHT-LITE, WET LOCATION RATED	SURFACE	120/277	45 W	4450	4000	FAIL-SAFE	FUSL-X12-4-LD4-1HI-40-UNV-80/86-EDC2-LLNL/WL	KENALL, NEW STAR	
F2	2X2 LED CORRECTIONAL SECURITY RECESSED TROFFER	RECESSED	120/277	35 W	4000	4000	FAIL-SAFE	FSR-TG-X24-2-LD4-2STD-40-UNV-80/84-EDD1	KENALL, NEW STAR	
F3	2X4 LED FLAT PANEL, FIELD SELECTABLE LUMENS/CCT	RECESSED	120-277	40 W	5000	4000	LITHONIA	CPX-2X4-AL08-80CRI-SIWW7-SWL-MVOLT	COOPER	1
F3S	2X4 LED FLAT PANEL, FIELD SELECTABLE LUMENS/CCT, INTEGRAL OCC. SENSOR	RECESSED	120-277	40 W	5000	4000	LITHONIA	CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT-APDT	COOPER	1
F4	2FT LED STRIP, FIELD SELECTABLE LUMENS/CCT	SURFACE	120/277	15 W	2000	4000	COOPER LTG	2SNX-SL3-SLW-UNV-CC83-CD1-U	ACUITY	
F5	4FT LED STRIP, FIELD SELECTABLE LUMENS/CCT	SURFACE	120-277	30 W	4000	4000	COOPER LTG	4SNX-SL3-SLW-UNV-CC83-CD1-U	ACUITY	
F6	8FT LED STRIP, FIELD SELECTABLE LUMENS	SUSPENDED	120/277	60 W	8000	4000	COOPER LTG	8SNX-SL3-SLW-UNV-CC83-CD1-U	ACUITY	
F7	4FT LED WRAPAROUND, FIELD SELECTABLE LUMENS/CCT	SURFACE	120/277	40 W	MED	4000	COOPER LTG	4NWS3C3-UNV	ACUITY	1
F8	HIGHBAY LED, FIELD SELECTABLE LUMENS/CCT	PENDANT	120/277	110 W	15000	4000	COOPER LTG	UHBS-1218-MV-L84050-U	ACUITY	
FE1	EXTERIOR LED WALL PACK	WALL	MULTI-TAP	50 W	7300	4000	COOPER LTG	ASWPLED2S	TGS LTG	
FE2	SQUARE SURFACE LOW PROFILE LED CANOPY LIGHT	SURFACE	120/277	50 W	5000	4000	COOPER LTG	CLCSLED-40-SM-UNV	ACUITY	
FE3	AREA POLE LIGHT HEAD ONLY, TYPE R3 DIST.	EXISTING POLE	MULTI-TAP	0 W	7000	4000	LITHONIA	HEAD ONLY: RSX1 LED-P1-40K-R3-MVOLT-SPA-DDBXD	COOPER	
FX1	EXIT SIGN,THERMOPLASTIC, GREEN LED, SINGLE/DOUBLE FACE	WALL OR CEILING	120-277	2 W	N/A	N/A	LITHONIA	LQM-S-W-3-G-120/277	COOPER	

LIGHT FIXTURE SCHEDULE NOTES:

1. REFER TO DRAWINGS FOR FIXTURES REQUIRED TO HAVE 0-10V OR STEP-LEVEL DIMMING CONTROL. PROVIDE FIXTURE(S) WITH LED DRIVER(S) AND REQUIRED DIMMING/SWITCH-LEG CONDUCTORS BETWEEN SWITCH(ES) AND FIXTURE(S) TO PROVIDE CONTROL AS INDICATED ON DRAWINGS.
2. FIXTURE TO BE CONTINUOUS ROW MOUNTED, LENGTH AS INDICATED ON DRAWINGS. PROVIDE REQUIRED ACCESSORIES/CONNECTORS FOR CONTINUOUS ROW MOUNTING.
3. SCBA - STANDARD COLOR BY ARCHITECT/OWNER (COORDINATE COLOR WITH ARCHITECT/OWNER PRIOR TO ORDERING.)
4. FIELD ADJUST PENDANT LENGTH AS REQUIRED, VERIFY LENGTH WITH COUNTER AS DIRECTED BY ARCHITECT.
5. PROVIDE ALL COMPONENTS FOR COMPLETE INSTALLATION, INCLUDING BUT NOT LIMITED TO: END FEEDS, CONNECTORS AND ETC.

GENERAL LIGHTING SCHEDULE NOTES:

- LIGHTING FIXTURES INDICATED IN SCHEDULE ARE BASIS OF DESIGN, ALTERNATE MANUFACTURERS SHALL BE PRE-APPROVED BY ADDENDUM. ALTERNATE MANUCATURERS SHALL SUBMIT PER-APPROVALS TO ENGINEER A MINIMUM OF 10 DAYS PRIOR TO PROJECT BID DATE.

LIGHTING CONTROL/OCCUPANCY SENSOR SCHEDULE

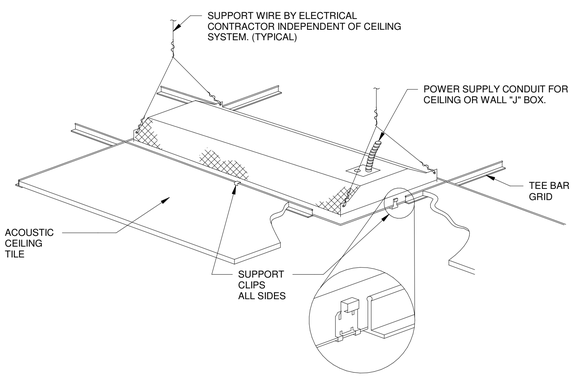
TYPE	DESCRIPTION	MFGR.	CATALOG #	APPROVED EQUALS	NOTES
DIMMER SWITCHES - LINE VOLTAGE					
D1	LINE VOLTAGE 0-10V DIMMER, ON/OFF/DIMMING PUSH-BUTTONS	SENSOR SWITCH	sPODMRA-D-**		2,3,4
OCC. SENSORS - CEILING (LINE VOLTAGE)					
CD2	DUAL-TECHNOLOGY, LINE VOLTAGE, SMALL MOTION 800W MAX LOAD	SENSOR SWITCH	CMR PDT 9	COOPER, WATTSOPPER, HUBBELL	
CD4	DUAL-TECHNOLOGY, LINE VOLTAGE,2-POLE SMALL MOTION, 800W MAX LOAD	SENSOR SWITCH	CMR-PDT-9-2P	COOPER, WATTSOPPER, HUBBELL	
OCC. SENSORS - CEILING (LOW VOLTAGE)					
CD1	DUAL-TECHNOLOGY, SMALL MOTION 360 DEGREE COVERAGE, LOW VOLTAGE, W/ISOLATED RELAY	SENSOR SWITCH	CM PDT 9 R	COOPER, WATTSTOPPER, HUBBELL	1
OCC. SENSORS - WALL MOUNTED					
WDD	DUAL-TECHNOLOGY, 0-10V DIMMING	SENSOR SWITCH	WSX-PDT-D	COOPER, WATTSTOPPER, HUBBELL	2,5
WP1	PASSIVE-INFRARED, 1-POLE, NEUTRAL REQUIRED	SENSOR SWITCH	WSX-**	COOPER, WATTSTOPPER, HUBBELL	2

CONTROL & OCCUPANCY SENSOR SCHEDULE NOTES:

1. PROVIDE ADDITIONAL POWER PACKS; SENSOR SWITCH PP20 AS NEED FOR QTY OF OCCUPANCY SENSORS/SWITCHES.
2. DEVICE COLOR SHALL MATCH WIRING DEVICES; REFER TO SPECIFICATIONS.
3. REFER TO MANUFACTURER DOCUMENTATION FOR QTY AND SIZE OF CONDUCTORS BETWEEN LOW VOLTAGE SWITCH, SENSOR(S) AND POWER/RELAY PACKS.
4. PROVIDE SECONDARY RELAY PACK; SENSOR SWITCH SP20 AS NEEDED TO PROVIDE DUAL-LEVEL SWITCHING OF FIXTURES.
5. PROVIDE 0-10V DIMMING CONDUCTORS (GRAY & VIOLET) BETWEEN SWITCH AND LIGHT FIXTURES FOR DIMMING CONTROL.
6. PROGRAM ON/OFF TIMES OF RELAY'S AS DIRECTED BY OWNER. PROVIDE COMMISSIONING AS INDICATED IN GENERAL NOTES BELOW.
7. CUSTOM WALL STATION ENGRAVINGS IS REQUIRED FOR WALL STATION(S) AND SHALL BE SPECIFIED/COORDINATED WITH OWNER AFTER PROGRAMING OF SYSTEM.

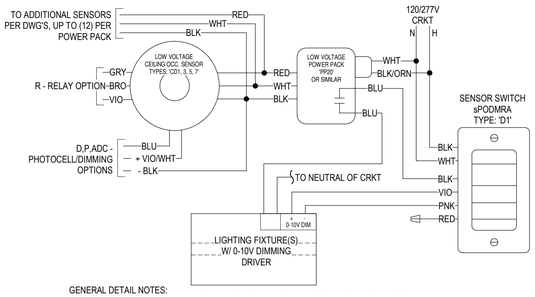
GENERAL LIGHTING CONTROL NOTES:

- E.C. SHALL BE RESPONSIBLE FOR THE PROGRAMMING/COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS TO FUNCTION AS INDICATED ON THE DRAWINGS AND SHALL INCLUDE ALL REQUIRED COST IN THE BASE BID. FOR AREAS WITH DAYLIGHTING CONTROL, THE DAYLIGHTING SET-POINTS SHALL BE COORDINATED WITH THE OWNER FOR EACH AREA PRIOR TO FINAL PROGRAMMING OF THE DAYLIGHTING SENSOR(S). ALL PROGRAMMING/COMMISSIONING SHALL BE DONE BY A FACTORY CERTIFIED OR TRAINED PERSON.
- LIGHTING IS SPACES WITH WIRELESS CONTROLS SHALL BE FIELD TUNED TO FOOTCANDLE LEVELS THAT ARE SATISFACTORY TO THE OWNER DURING PROGRAMMING AND COMMISSIONING OF THE WIRELESS CONTROL SYSTEM.



1 LIGHT FIXTURE RECESSED DETAIL

SCALE: NONE



GENERAL DETAIL NOTES:

- THIS WIRING DIAGRAM IS BASED ON SENSOR SWITCH CONTROLS DEVICES AS THE BASIS OF DESIGN SHOWN ON DRAWINGS, IF AN ALTERNATE MANUFACTURER IS USED THE ELEC. CONTRACTOR IS RESPONSIBLE TO PROVIDING ALL WIRING AND COMPONENTS REQUIRED TO PROVIDE THE SWITCHING SCHEME THAT IS REPRESENTED.
- EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN FOR SIMPLICITY, AN EQUIPMENT GROUND SHALL BE RAN TO ALL SWITCHES, LIGHT FIXTURES, ETC.

2 LV OCC. SENSOR W/ TYPE 'D1' SWITCH DIAGRAM

SCALE: NONE

3 RECEPTACLE MOUNTING DETAIL

SCALE: NONE

DATE	
07/12/2024	ISSUED FOR PERMIT
08/08/2024	ADDENDUM #1

PHASE 1 PART A FOR:
TWIN FALLS COUNTY - WRIGHT AVE JAIL
2515 Wright Ave, Twin Falls, ID 83301
ELECTRICAL SCHEDULES & DETAILS

Laughlin Ricks Architecture
architecture/planning
134 3RD AVE. E. * Twin Falls, Idaho 83301
PHONE: (208) 736-8050

DATE: 7.12.24

SAM	TEP
Drawn	Checked

#23029
PROJECT #

E1A-5.1

PROFESSIONAL ENGINEER REGISTERED 13053 7.12.24 STATE OF IDAHO SHAWN A. MEADOR

PROJECT #: 2496

PAYNE Engineering Inc. Consulting Engineers
1823 E. Center
Pocatello, Idaho 83201
tel (208) 232-4439
www.payneengineeringinc.com

PREPARED FOR:

TWIN FALLS COUNTY JAIL

GENERAL NOTES & CONDITIONS (ALL TRADES)

1. DEFINITIONS

HENRY SCHEIN, HENRY SCHEIN INC., HENRY SCHEIN DENTAL, OR HSD INC. REFERS TO THE EQUIPMENT SUPPLIER FOR THIS PROJECT ENGAGED BY THE OWNER UNDER A SEPARATE CONTRACT.

E.S. - "EQUIPMENT & TECHNOLOGY SPECIALIST" IS A HENRY SCHEIN EMPLOYEE THAT SPECIALIZES IN THE MANAGEMENT OF EQUIPMENT AND/OR TECHNOLOGY SALES AND INSTALLATIONS AND HAS ASSISTED THE OWNER IN THE PREPARATION OF DRAWINGS AND SPECIFICATIONS FOR THE CONSTRUCTION OF THE PROPOSED FACILITIES.

THE "**GENERAL CONTRACTOR**", ALSO KNOWN AS THE "**G.C.**" IS REFERRED TO AS THE PERSON(S) OR ENTITY WHO HAS ENTERED INTO A CONTRACTUAL AGREEMENT WITH THE OWNER FOR THE WORK DEFINED IN SUCH AGREEMENT. THE G.C. IS RESPONSIBLE FOR ALL WORK CARRIED OUT BY THEIR SUBCONTRACTORS OR SUBTRADES. IF THE CONSTRUCTION OF THE PROJECT IS LET UNDER SEPARATE CONTRACTS BY THE OWNER, THE RESPONSIBILITIES STIPULATED BELOW SHALL APPLY TO EACH CONTRACTOR.

THE "**OWNER**" IS REFERRED TO AS THE PERSON(S) OR ENTITY WHO OWNS OR LEASES THE PREMISES FOR WHICH A CONSTRUCTION AGREEMENT HAS BEEN ENTERED UPON WITH THE GENERAL CONTRACTOR. WHERE THE OWNER, AS REFERRED TO ABOVE, LEASES THE PREMISES THE ENTITY WHO HAS OWNERSHIP OF THE PROPERTY WILL BE REFERRED TO AS THE LANDLORD.

THE "**OWNER'S AGENT**" IS A REPRESENTATIVE OF THE AGENT ACTING ON THEIR BEHALF AND MAY HAVE THE AUTHORITY TO MAKE DECISIONS IN THEIR ABSENCE. THIS MAY BE AN OFFICE MANAGER, AN ARCHITECT, AN ENGINEER, OR A PROJECT MANAGER HIRED BY THE OWNER.

2. DRAWINGS

THESE DRAWINGS ARE PREPARED BY HENRY SCHEIN AS DENTAL CONSULTANTS FOR ASSISTING AN ARCHITECT/CONTRACTOR TO PRODUCE CONSTRUCTION DOCUMENTS & BUILD A DENTAL OFFICE. THEY DO NOT CONSTITUTE A COMPLETE SET OF CONSTRUCTION DOCUMENTS. ITEMS REQUIRED FOR BUILDING PERMITS OR CONSTRUCTION MAY NOT APPEAR ON THESE DRAWINGS. IF THESE DRAWINGS ARE BEING SUBMITTED FOR BUILDING PERMIT, IT REMAINS THE OWNER AND/OR GENERAL CONTRACTOR'S RESPONSIBILITY RETAIN THE PROPER CONSULTANTS TO PREPARE COMPLETE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

DOOR SPECIFICATIONS, LIGHTING DESIGN, FINAL REFLECTED CEILING PLANS, AND OTHER SPECIFICATIONS NOT COVERED IN THESE DRAWINGS ARE BY OTHERS.

RETENTION OF OTHER CONSULTANTS SUCH AS AN ARCHITECT, M.E.P. ENGINEERS, OR SECURITY CONSULTANT, ARE THE RESPONSIBILITY OF THE OWNER AND/OR GENERAL CONTRACTOR.

3. HENRY SCHEIN, INC. RESPONSIBILITIES

HENRY SCHEIN, INC. WILL ISSUE DETAILED DRAWINGS SHOWING CRITICAL LOCATIONS & REQUIREMENTS OF ALL DENTAL-SPECIFIC EQUIPMENT. THE E.S. WILL BE AVAILABLE FOR PERIODIC FIELD VISITS. VISITS WILL BE LIMITED TO A PRE-CONSTRUCTION ON-SITE MEETING, LAYOUT CHECKS AND INSTRUCTIONS TO THE VARIOUS TRADES IN THE CRITICAL ASPECTS OF THE WORK PERTAINING TO DENTAL AND ALLIED EQUIPMENT. ALL REQUESTS FOR FIELD VISITS SHALL ALLOW REASONABLE ADVANCED NOTICE. HENRY SCHEIN, INC. AND ITS REPRESENTATIVES WILL NOT ASSUME ANY RESPONSIBILITIES FOR DEVIATIONS FROM THESE DRAWINGS WITHOUT PRIOR WRITTEN CONSENT.

PRIOR TO CONSTRUCTION, THE E.S. WILL VERIFY THE SITE DIMENSIONS OF THE SPACE PRIOR TO ENSURE THEY COINCIDE WITH THE DETAILED DRAWINGS. DURING CONSTRUCTION, THE E.S. WILL CHECK THE JOBSITE PERIODICALLY AS REQUIRED. THE E.S. WILL BE AVAILABLE TO ASSIST THE CONTRACTOR(S)AND THE OWNER IN THE INTERPRETATION OF THESE DRAWINGS AND SPECIFICATIONS. PRIOR TO ENCLOSING WALLS, THE GENERAL CONTRACTOR AND/OR THE FRAMING SUBCONTRACTOR IS REQUIRED TO COORDINATE WITH THE E.S. AND THE HENRY SCHEIN INSTALLATION TECHNICIAN. THIS INSPECTION IS CRITICAL TO ENSURE THAT THE WALL AND/OR CEILING SUPPORTS FOR DENTAL EQUIPMENT WILL MATCH WITH ANY CHANGES THAT MAY HAVE OCCURRED WITH THE OWNER'S EQUIPMENT ORDER. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE PLUMBING, ELECTRICAL, SUPPORT BACKING, AND LEAD INSTALLATION APPROVED BY MUNICIPAL INSPECTORS BEFORE POURING SLABS, ENCLOSING PARTITIONS AND CEILING.

HENRY SCHEIN WILL NOT BE RESPONSIBLE FOR ANY UNFORESEEN CONDITIONS ARISING OUT OF, OR DURING THE COURSE OF, CONSTRUCTION NOR FOR ANY DEVIATIONS FROM DRAWINGS AND/OR SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT.

EQUIPMENT INSTALLATION

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE GENERAL CONTRACTOR, PLUMBER, ELECTRICIAN, CABINET MAKER, AND THE E.S. ALL TEMPLATES CRITICAL TO EQUIPMENT INSTALLATION WILL BE DISTRIBUTED AT THIS MEETING.

THE E.S. WILL INSPECT PREMISES PRIOR TO THE INSTALLATION OF ITS EQUIPMENT AT WHICH TIME ALL FINISHES (CEILINGS, FLOORING, AND PAINTING) AND MECHANICAL WORK MUST BE COMPLETED. RESPONSIBILITIES FOR THE INSTALLATION AND/OR HOOKUP OF DENTAL EQUIPMENT WILL BE DEFINED IN THE SPECIFICATIONS FOR EACH TRADE. HENRY SCHEIN DENTAL REQUIRES THAT ALL APPLICABLE TRADES BE REPRESENTED AT THE TIME OF INSTALLATION.

4. GENERAL CONTRACTOR (G.C.) - RESPONSIBILITIES

ALL ITEMS LISTED OR NOTED HEREIN ARE FOR GUIDANCE ONLY AND DO NOT NECESSARILY CONSTITUTE THE ENTIRE EXTENT OF THE WORK TO BE CARRIED OUT UNDER THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE TO DEFINE AND PROVIDE ALL THE WORK REQUIRED TO COMPLETE THIS PROJECT TO THE TRUE INTENT OF THE CONTRACT WHETHER OR NOT IT IS SPECIFICALLY SHOWN OR SPECIFIED. WHERE THESE DOCUMENTS DO NOT PROVIDE ALL THE INFORMATION NECESSARY FOR THE COMPLETE INSTALLATION OF ANY ITEM, THEN THE MANUFACTURER'S INSTRUCTIONS FOR THE ITEM SHALL BE STRICTLY FOLLOWED.

THE GENERAL CONTRACTOR SHALL, SUPPLY AND INSTALL ALL ITEMS, ARTICLES, MATERIALS, INCLUDE ALL LABOR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE THIS PROJECT AND ALL SYSTEMS SHOWN. TEST AND VERIFY ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND INSTRUCT THE OWNER OR OWNER'S AGENT IN THE OPERATION OF THE EQUIPMENT.

THE G.C. SHALL THOROUGHLY FAMILIARIZE HIM/HERSELF WITH THE DRAWINGS, SPECIFICATIONS, AND CONDITIONS COVERING THIS JOB. THE G.C. SHALL ADVISE THE OWNER AND THE E.S. OF ANY CONFLICT BETWEEN THESE DRAWINGS AND THE FIELD CONDITIONS BEFORE PROCEEDING WITH THE WORK.

THE G.C. SHALL COMPLY WITH ALL STATE AND MUNICIPAL LAWS, ORDINANCES, RULES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. ALL WORK MUST MEET OR EXCEED THE CURRENT BUILDING CODE UNDER THE JURISDICTION FOR WHICH THIS PROJECT IS LOCATED. THE G.C. SHALL FILE ALL NECESSARY APPLICATIONS AND OBTAIN AND PAY FOR ALL PERMITS, AND CERTIFICATES OF APPROVAL PERTAINING TO THE CONSTRUCTION OF THE PREMISES, INCLUDING THE FINAL INSPECTION FOR OCCUPANCY PERMIT, UNLESS OTHERWISE STATED. PERMITS OBTAINED SHALL INCLUDE THE CONNECTIONS TO ALL DENTAL EQUIPMENT AND FIXTURES WHICH ARE TO BE COMPLETED BY THE GENERAL CONTRACTOR. HVAC, SPRINKLER DRAWINGS, CORRESPONDING SPECIFICATIONS OR ANY OTHER DRAWINGS AND SPECIFICATIONS THAT MAY BE REQUIRED FOR LICENSES AND PERMITS ARE TO BE PROVIDED BY OTHERS. HENRY SCHEIN INC. WILL NOT PROVIDE OR PAY FOR THESE SERVICES OR ANY OTHER DRAWINGS AND SPECIFICATIONS THAT MAY BE REQUIRED FOR LICENSES AND PERMITS.

ALL MEASUREMENTS SHALL BE CHECKED AT THE JOB SITE. THE GENERAL CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF FIELD MEASUREMENTS AND CONDITIONS. THEY ARE ALSO RESPONSIBLE FOR THE PROPER MODIFICATIONS TO ANY EXISTING, OR PREVIOUSLY INSTALLED WORK. WRITTEN APPROVAL MUST BE OBTAINED FROM THE E.S. BEFORE ANY CHANGES AND/OR DEVIATIONS FROM DRAWINGS AND SPECIFICATIONS ARE MADE.

THE G.C. SHALL ASSUME FULL RESPONSIBILITY FOR THE EXECUTION OF HIS/HER WORK AND FOR ANY CHANGES AND/OR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER AND/OR THE E.S.. THE COST OF CORRECTIONS RESULTING FROM CHANGES AND/OR DEVIATIONS SHALL BE BORNE BY THE GENERAL CONTRACTOR.

A COMPLETE SET OF UP-TO-DATE DRAWINGS MUST BE KEPT AT THE JOB SITE AT ALL TIMES AND ANY CHANGES MUST BE NOTED THEREON AND INITIALED.

THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE OWNER'S AGENT FROM AND AGAINST ALL CLAIMS FOR DAMAGE TO PERSON AND/OR PROPERTY SUFFERED AS A RESULT OF THE PERFORMANCE OF WORK, WHETHER OR NOT, CAUSED BY NEGLIGENCE. AND PAY ANY EXPENSES (INCLUDING, WITHOUT LIMITATIONS, ATTORNEY'S FEES, AND DISBURSEMENTS) INCURRED IN THE CONNECTION THEREWITH.

OTHER REQUIREMENTS

THE G.C. SHALL PARTICIPATE AT JOB COORDINATION MEETINGS WITH THE HENRY SCHEIN REPRESENTATIVE AND ENSURE ATTENDANCE OF THE APPROPRIATE TRADES.

ALL TRADES SHALL DO THEIR OWN CUTTING. THE GENERAL CONTRACTOR SHALL DO ALL PATCHING TO CONFORM TO MATERIAL, TEXTURE, AND SURFACE ALIGNMENT WITH THE ADJOINING SURFACE AND FINAL TOUCH UP OF ALL FINISHED SURFACES.

THE GENERAL CONTRACTOR SHALL ENSURE THE PROTECTION OF ALL EQUIPMENT FURNISHED UNDER HIS/HER CONTRACT AND BY OTHERS.

THE G.C. SHALL REVIEW ALL CUSTOM CABINETRY, SUCH AT THE RECEPTION DESK, LABORATORY, AND STERILIZATION, WITH THE E.S. FOR ANY DENTAL EQUIPMENT INCOPRORATION.
THE G.C. SHALL REMOVE ANY RUBBISH FROM THE CONSTRUCTION SITE AND ENSURE THAT ALL PUBLIC SPACES ARE FREE OF CONSTRUCTION MATERIALS AND DEBRIS THROUGHOUT THE DURATION OF THE CONTRACT. THE G.C. IS RESPONSIBLE FOR THE TOTAL CLEAN UP OF THE JOB SITE UPON COMPLETION OF THEIR WORK.

THE GENERAL CONTRACTOR SHALL ISSUE A WRITTEN ONE-YEAR WARRANTY CERTIFICATE ON ALL WORKMANSHIP AND MATERIALS FROM THE DATE OF OCCUPANCY, UNLESS NOTED OTHERWISE IN THE CONSTRUCTION AGREEMENT BETWEEN THE OWNER AND THE G.C.. THIS CERTIFICATE SHALL BIND THE GENERAL CONTRACTOR TO PROMPTLY CORRECT, REPAIR, OR REPLACE, ANY DEFECTIVE EQUIPMENT OR WORKMANSHIP THAT WAS THE RESPONSIBILITY OF THE G.C., WITHOUT COST TO THE OWNER.

5. SEPARATE CONTRACTS BY OWNER

THE OWNER RESERVES THE RIGHT TO PERFORM WORK RELATED TO THE PROJECT WITH HIS/HER OWN FORCES, AND TO AWARD SEPARATE CONTRACTS IN CONNECTION WITH OTHER PORTIONS OF THE PROJECT OR ON OTHER WORK ON THE SITE UNDER THESE OR SIMILAR CONDITIONS OF CONTRACT. IF THE GENERAL CONTRACTOR CLAIMS THAT DELAY OR ADDITIONAL COST IS INVOLVED BECAUSE OF SUCH ACTION BY THE OWNER, THE G.C. MUST ENSURE THAT THEIR CLAIM WAS ORIGINALLY PART OF THEIR CONTRACT AGREEMENT.

THE G.C. SHALL AFFORD THE OWNER AND SEPARATE CONTRACTORS REASONABLE OPPORTUNITY FOR THE INTRODUCTION AND STORAGE OF THEIR MATERIALS AND EQUIPMENT AND THE EXECUTION OF THEIR WORK. THE G.C. SHALL CONNECT AND COORDINATE THEIR WORK WITH OTHERS AS REQUIRED BY THE CONTRACT DOCUMENTS. ANY COSTS CAUSED BY DEFECTIVE AND/OR ILL-TIME WORK SHALL BE BORNE BY THE PARTY RESPONSIBLE.

SEE OWNER OR OWNER'S AGENT FOR NON-DENTAL ITEMS AND AREAS NOT DETAILED IN THESE DRAWINGS (SUCH AS RECEPTION, BUSINESS AREA, OFFICES, STAFF LOUNGE, STORAGE ROOMS, OFFICE-WIDE SOUND SYSTEMS, CONTROLS, ETC.).

GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PRODUCED FOR THIS SPECIFIC PROJECT ONLY, AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF HENRY SCHEIN INC. THESE DRAWINGS AND SPECIFICATIONS MAY NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT EXPRESSED WRITTEN CONSENT AND FULL PAYMENT OF ANY ASSOCIATED FEES TO HENRY SCHEIN, INC.
2. ALL COMMUNICATIONS AND COORDINATION WITH TRADES SHALL BE THE RESPONSIBILITY OF THE G.C. UNLESS STATED OTHERWISE IN THE CONTRACT AGREEMENT.
3. THE G.C. MUST SIGN THIS SHEET STIPULATING THAT HE/SHE UNDERSTANDS AND WILL COMPLY WITH ALL SPECIFICATIONS BEFORE THE WORK WILL START. A SIGNED COPY OF THE PLANS ARE TO BE RETURNED TO THE OWNER AND HENRY SCHEIN DENTAL.
4. IT IS THE RESPONSIBILITY OF A SUBCONTRACTOR TO READ AND UNDERSTAND ALL NOTES AND ILLUSTRATIONS PERTAINING TO THEIR TRADE AND HOW THEIR WORK AFFECTS OTHER TRADES.
5. THE SUPPLY AND INSTALL OF THE CABINETS AND COUNTERTOPS, OTHER THAN THOSE SPECIFIED AND/OR CONTRACTED BY HENRY SCHEIN, INC., IS THE RESPONSIBILITY OF THE G.C..
6. THE OWNER SHALL MAKE ARRANGEMENTS FOR INSTALLATION OF NON-DENTAL SYSTEMS UNDER A SEPARATE CONTRACT BEFORE WALLS ARE ENCLOSED.
7. ROUGH-IN AND FINISH WORK FOR DENTAL EQUIPMENT IS TO BE ACCORDING TO TEMPLATES FURNISHED BY THE MANUFACTURERS OF EQUIPMENT BEING INSTALLED. THE E.S. WILL POSITION THE TEMPLATES IN THEIR PROPER LOCATIONS, AT WHICH TIME ALL SPECIFICATIONS ON THE PLANS WILL BE EXPLAINED TO THE GENERAL CONTRACTOR OR SUBCONTRACTOR(S). ALL SPECIFIED SIZES OF PIPES, TUBING, FITTINGS, ETC., AS WELL AS PROPER HEIGHTS MARKED, MUST BE STRICTLY FOLLOWED. ANY DEVIATIONS ON SIZES OR HEIGHTS OF PIPES, TUBING, AND/OR FITTINGS MUST BE CORRECTED BEFORE THE EQUIPMENT CAN BE INSTALLED, AND ANY SUCH EXTRA EXPENSE WILL BE THE RESPONSIBILITY OF G.C. AND/OR THE SUBTRADE.
8. THE G.C. SHALL SEAL ANY/ALL FLOOR AND FIRE PENETRATIONS MADE BY HENRY SCHEIN INSTALLERS AT THE FINISHING STAGES WITH THE APPROPRIATE MATERIAL.
9. THE G.C. SHALL PROVIDE DOOR THRESHOLDS & DOOR SEALS NECESSARY FOR DENTAL EQUIPMENT SOUND ATTENUATION.
10. THE GENERAL CONTRACTOR SHALL SUPPLY FASTENERS, ANCHORS, ACCESSORIES AND ADHESIVES REQUIRED FOR FABRICATION AND ERECTION OF THE WORK. KEEP EXPOSED FASTENERS TO A MINIMUM, NEATLY LAID OUT AND EVENLY SPACED. FLOOR FINISHES ARE TO BE CONTINUOUS UNDERNEATH MILLWORK AND EQUIPMENT. TRANSITIONS AND VARIATIONS BETWEEN FLOOR FINISHES TO BE SMOOTH AND LEVEL TO REDUCE INJURY WITH USE. PROVIDE 3/4" (19MM) PLYWOOD SUPPORT BETWEEN STUDS FOR ALL WALLS TO SUPPORT UPPER CABINETRY AND SHELVING, INCLUDING RECEPTION AND ALL TREATMENT ROOMS. WOOD SUPPORTS ABOVE THE CEILING MAY NEED TO BE FIRE RATED, FOLLOW LOCAL CODES.
11. PRIOR TO POURING THE CONCRETE FLOOR AND ENCLOSING ALL WALLS, THE GENERAL CONTRACTOR SHALL CONTACT THE E.S. AND INSTALLATION TECHNICIAN FOR FINAL INSPECTION OF PLUMBING, ELECTRICAL AND WOOD SUPPORTS.
12. ALL LABOR AND MATERIAL NECESSARY FOR CHANGES IN EXISTING PLUMBING, CARPENTRY, AND ELECTRICAL WORK MUST BE DONE AND SUPPLIED BY THE GENERAL CONTRACTOR AND IS NOT INCLUDED IN THE COST OF EQUIPMENT.
13. ALL PLUMBING AND ELECTRICAL LINES ARE TO BE CONCEALED UNLESS OTHERWISE SPECIFIED.
14. THE ELECTRICAL PANEL SHALL BE CONVENIENT AND ACCESSIBLE, MEET ELECTRICAL CODE REQUIREMENTS, AND BE LOCATED IN THE SUITE. LOCATION TO BE APPROVED BY THE OWNER AND LANDLORD. THE G.C. SHALL REVIEW THE LOCATION WITH THE E.S., AS WELL AS THE LOCATIONS OF THE TELEPHONE SYSTEM AND SERVER.
15. HENRY SCHEIN, INC. SHALL NOT BE HELD RESPONSIBLE FOR SUPPLYING UL/ULC OR CSA APPROVAL CERTIFICATES. THE G.C. MAY CONTACT THE MANUFACTURER IF REQUIRED.
16. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE SPECIFIED TERMINATION BOXES, RECEPTACLES AND ANY HARDWIRE CIRCUITS LOCATED IN CUSTOM DENTAL CABINETRY. THEY ARE ALSO RESPONSIBLE FOR SUPPLYING GFCI RECEPTACLES WHERE REQUIRED BY CODE.
17. THE G.C. IS TO MAKE ARRANGEMENTS FOR TEMPORARY POWER AND/OR DISCONNECTION OF ELECTRICAL AND MECHANICAL SYSTEMS IF AND WHEN REQUIRED.
18. IF MULTIMEDIA SYSTEMS, SUCH AS ENTERTAINMENT TVS, MONITORS, OR NETWORK COMPUTER SYSTEMS, OR SECURITY SYSTEMS ARE SUPPLIED AND INSTALLED BY HENRY SCHEIN, INC., THEN THESE SYSTEMS WILL BE THEIR RESPONSIBILITY. WHEN THESE SYSTEMS, OR OTHER SYSTEMS, ARE NOT PROVIDED BY HENRY SCHEIN, INC., HENRY SCHEIN, INC. SHALL NOT BE HELD RESPONSIBLE FOR THEIR INSTALLATION OR COMMISSIONING.
19. HENRY SCHEIN, INC. WILL ASSEMBLE EQUIPMENT AND, WHERE SPECIFIED WITHIN THESE DRAWINGS, CONNECT TO UTILITIES PROVIDED, SUCH CONNECTIONS BY OTHER TRADES ARE SUPPLIED CORRECTLY AND COMPLETELY (WITH PROPER SHUT-OFF VALVES/FITTINGS/ OUTLETS/TERMINATIONS). VERIFY ALL CONTRACTOR RESPONSIBILITIES FOR FINAL CONNECTIONS WITH THESE DRAWINGS AND HENRY SCHEIN DENTAL E.S.. DIRECT ANY QUESTIONS REGARDING CONTRACTOR RESPONSIBILITIES TO HENRY SCHEIN DENTAL E.S. PRIOR TO CONSTRUCTION.
20. WHEN APPLICABLE. THE G.C. SHALL BE RESPONSIBLE FOR PROCURING A PLUMBING SUB-CONTRACTOR THAT IS CERTIFIED TO INSTALL NITROUS OXIDE–OXYGEN CONSCIOUS SEDATION SYSTEMS AS DETAILED IN THESE PLANS. HENRY SCHEIN DENTAL IS A NITROUS OXIDE SYSTEM END USER COMPONENT SUPPLIER AND DOES NOT MANUFACTURE OR DESIGN ANY OF THESE SYSTEMS. ANY SYSTEM DESIGN SHOWN ON THESE PLANS BY HENRY SCHEIN DENTAL IS TO BE USED AS AN ILLUSTRATION ONLY FOR THE PURPOSE OF LOCATING END USER OUTLET STATIONS, CYLINDER ROOM MANIFOLD, AND ALARM PANEL. THE FINAL TRUNK SYSTEM INSTALLATION SHALL ADHERE TO THE MECHANICAL ENGINEERING DRAWINGS PREPARED BY A THIRD PARTY.
21. PLUMBING SUBCONTRACTOR SHALL PROVIDE GAS CERTIFICATION CREDENTIALS IN ACCORDANCE WITH ANY REQUESTS BY THE OWNER, GENERAL CONTRACTOR, BUILDING DEPARTMENT, OR HENRY SCHEIN DENTAL PRIOR TO COMMENCING WORK IF ANY TYPE OF NITROUS–OXIDE SYSTEM IS BEING INCORPORATED INTO THE PROJECT.

PRIOR TO POURING THE CONCRETE FLOOR AND ENCLOSING ALL WALLS AND CEILINGS, THE GENERAL CONTRACTOR SHALL CONTACT THE E.S. AND INSTALLATION TECHNICIAN FOR FINAL INSPECTION OF PLUMBING, ELECTRICAL AND WOOD SUPPORTS.

EQUIPMENT SPECIALIST (E.S.):	**TELEPHONE:**
JAKE JONES	(208) 869-7974
INSTALLATION TECHNICIAN:	**TELEPHONE:**

SHEET INDEX

HENRY SCHEIN®
INTEGRATED DESIGN STUDIO
10920 W LINCOLN AVE. WEST ALLIS, WI 53227
henryscheinintegrateddesign.com

PROJECT: **TWIN FALLS COUNTY JAIL**

LOCATION: TWIN FALLS, ID

HENRY SCHEIN REP:
JAKE JONES

REGION:
MW MOUNTAIN WEST

PHONE #:
(208) 869-7974

-IMPORTANT NOTE-
THIS DOCUMENT HAS BEEN PREPARED AS AN INSTRUMENT OF PROFESSIONAL SERVICE AND **IS NOT AN ARCHITECTURAL PLAN.** THE IDEAS/ DESIGN INCLUDED HEREIN ARE THE SOLE PROPERTY OF HENRY SCHEIN, INC. AND ARE PROTECTED UNDER COPYRIGHT. THESE PLANS MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN CONSENT OF HENRY SCHEIN, INC. AND FULL PAYMENT OF ANY ASSOCIATED DESIGN FEES.
ALL DIMENSIONS ARE SUBJECT TO JOB-SITE VERIFICATION.

PROJECT NUMBER:
24-1481

PROJECT START DATE:
7/31/2024

FINALS START DATE:
7/31/2024

DRAWN BY:	ARCH.
FINALS BY:	CAK
CHECKED BY:	RLC

REVISIONS:

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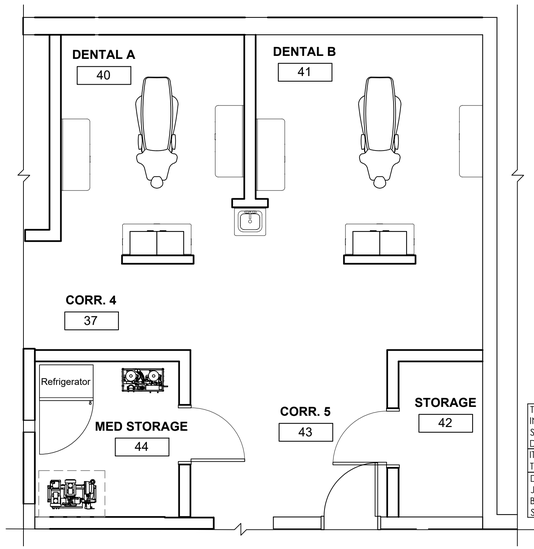
INT.SQ.FT.= PER ARCH.

SCALE:	SHT. SIZE:
N/A	24 x 36

COVER SHEET

SCV

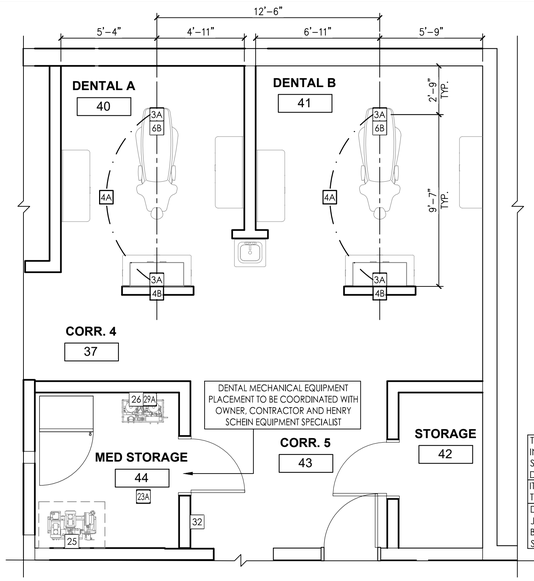
P:_ALL REGIONS\MW Mountain West\Twin Falls County Jail\Twin Falls County Jail-1.0



THIS PLAN IS FOR THE SOLE PURPOSE OF SPECIFICATION AND INSTALLATION OF THE DENTAL EQUIPMENT SUPPLIED BY HENRY SCHEIN DENTAL. THE SPACE PLANNING AND CONCEPTUAL DESIGN HAS BEEN PROVIDED BY OTHERS.
IT IS THE ARCHITECT/CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL CODE RESTRICTIONS & CLEARANCES ARE MET.
DENTAL CHAIR AND CABINET UTILITIES TO BE LOCATED ON JOB-SITE PER MANUFACTURER'S TEMPLATES. LOCATIONS TO BE APPROVED BY DOCTOR AND HENRY SCHEIN EQUIPMENT SPECIALIST PRIOR TO ROUGH-IN.

PROPOSED FLOOR PLAN

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



THIS PLAN IS FOR THE SOLE PURPOSE OF SPECIFICATION AND INSTALLATION OF THE DENTAL EQUIPMENT SUPPLIED BY HENRY SCHEIN DENTAL. THE SPACE PLANNING AND CONCEPTUAL DESIGN HAS BEEN PROVIDED BY OTHERS.
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DENTAL CHAIR AND CABINET UTILITIES TO BE LOCATED ON JOB-SITE PER MANUFACTURER'S TEMPLATES. LOCATIONS TO BE APPROVED BY DOCTOR AND HENRY SCHEIN EQUIPMENT SPECIALIST PRIOR TO ROUGH-IN.

DENTAL SPECIFICATIONS

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

GENERAL SPECIFICATIONS

PLEASE NOTE: A LICENSED PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED UTILITIES. ALL REQUIREMENTS TO BE VERIFIED BY MANUFACTURER'S SPEC SHEETS PROVIDED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST. MANUFACTURER'S SPECS SUPERSEDE ANY AND ALL INFORMATION CONTAINED HEREIN.

QUANTITY	SPEC. NUMBER	DESCRIPTION	UTILITIES: COLD WATER	HOT WATER	DRAIN	COMPRESSED AIR	NATURAL GAS	VACUUM	N2O	OXYGEN	NITROGEN	MEDICAL VACUUM	WAGD	VENT	POWER	DEDICATED CIRCUIT	LOW VOLTAGE CONTROL	DATA DROP	DETAIL
4	3A	UTILITY CENTER - SELF-CONTAINED WATER. SEE DETAIL(S). ALL UTILITIES MUST CONFORM TO PREVAILING LOCAL CODES.				•		•							115V				3A
2	4A	2" SUB-FLOOR CONDUIT - SUB-FLOOR CONDUIT WITH PULL-STRING SUPPLIED & INSTALLED BY ELECTRICIAN. SWEEPING 90 DEGREE BENDS ONLY. STUB-UP FLUSH WITH SUB-FLOOR AT EACH END, MARK LOCATION AT FINISH.																	4A
2	4B	2" VERTICAL CONDUIT - VERTICAL CONDUIT WITH PULL-STRING SUPPLIED AND INSTALLED BY ELECTRICIAN. RUN FROM ABOVE CEILING DOWN TO SINGLE-GANG MUD RING OR BOX AT SILL PLATE.																	4B
2	6B	DENTAL LIGHT (CHAIR MOUNTED) - SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL. TIED INTO POWER FOR CHAIR.													115V				
1	23A	EXHAUST FAN FOR DENTAL MECHANICAL CLOSET - SUPPLIED AND INSTALLED BY CONTRACTOR. A THERMOSTAT CONTROLLED FAN IS REQUIRED TO KEEP ROOM TEMPERATURE WITHIN THE EQUIPMENT MANUFACTURER'S RECOMMENDED OPERATING TEMPERATURE RANGE. FAN OUTPUT (CFM) TO BE DETERMINED BY ARCHITECT/ENGINEER. VENT TO OUTSIDE.													115V	•			
1	25	DENTAL AIR COMPRESSOR - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY CONTRACTOR(S). FOR DENTAL AIR DRIVEN DEVICES. PLUMBER TO PROVIDE 1/2" I.D. COPPER TYPE K OR L SUPPLY LINES TO LOCATIONS THAT REQUIRE AIR. BUCK BOOST TRANSFORMER SUPPLIED AND INSTALLED BY ELECTRICIAN (IF REQ'D). FINAL CONNECTIONS BY CONTRACTOR(S).				•									230V	20A	•		25
1	26	VACUUM PUMP (WET) - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY CONTRACTOR(S). VERIFY TRUNK, REDUCTION AND BRANCH LINE SIZES WITH MFR RECOMMENDATIONS. USE SCH 40 PVC WHERE PERMITTED BY CODE. PLUMBER TO EXHAUST PUMP TO OUTSIDE. SCHEIN TO SUPPLY AIR/WATER SEPARATOR IF REQ'D. BUCK BOOST TRANSFORMER SUPPLIED AND INSTALLED BY ELECTRICIAN (IF REQ'D). DRAIN BY PLUMBER. FINAL CONNECTIONS BY CONTRACTOR(S). SEE DETAIL.	•		•			•						•	230V	20A	•		26
1	29A	AMALGAM SEPARATOR - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY PLUMBER. VERIFY LOCATION WITH HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST. CONNECT TO VACUUM LINE COMING IN FROM TREATMENT ROOMS.																	29A
1	32	MECHANICAL ROOM CONTROL PANEL - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY ELECTRICIAN 60" A.F.F. ELECTRICIAN TO SUPPLY AND INSTALL 24V CONTROL WIRING FROM PANEL TO EACH COMPRESSOR, VACUUM AND/OR SOLENOID PER MFR SPECS.															•		32

ELECTRICAL NOTES

1. THIS SPECIFICATION SHEET IS INTENDED AS A GUIDE FOR TRADESMEN. THE FLOOR PLANS ENCLOSED HEREIN ARE SUGGESTIONS FOR THE PLACEMENT OF DENTAL EQUIPMENT. THEY ARE NOT INTENDED FOR CONSTRUCTION.

2. EXACT EQUIPMENT LOCATIONS MUST BE JOB SITE VERIFIED BY THE HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.

3. FOLLOW MANUFACTURER'S TEMPLATES FOR EXACT REQUIREMENTS FOR ANY EQUIPMENT SUPPLIED BY HENRY SCHEIN DENTAL. CONSULT WITH HENRY SCHEIN DENTAL REP FOR ADDITIONAL INFORMATION.

4. GFCI PROTECTION OR REDUNDANT GROUND IN DENTAL CHAIR RECEPTACLES, DENTAL UTILITY CABINETS AND ANY OTHER AREAS REQUIRED BY LOCAL CODE IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

5. ADDITIONAL CONVENIENCE OUTLETS REQUIRED ON JOBSITE ARE THE RESPONSIBILITY OF ELECTRICAL CONTRACTORS. FOLLOW LOCAL CODE RESTRICTIONS.

6. ALL CONDUIT LOCATIONS SHOULD BE VERIFIED WITH OWNER AND HENRY SCHEIN REP PRIOR TO ROUGH-IN.

7. ALL COMPUTER NETWORKING AND WORKSTATIONS MUST BE SPECIFIED BY CUSTOMER'S COMPUTER SUPPLIER. IF HENRY SCHEIN WILL BE SUPPLYING THE COMPUTERS & NETWORKING COMPONENTS, SEE SHEET SE.2 FOR THE OFFICE TECHNOLOGY PLAN.

8. CONTRACTOR TO PROVIDE AND INSTALL ALL EXIT SIGNS, EMERGENCY LIGHTING AND FIRE SUPPRESSION & DETECTION SYSTEMS AS PER ARCHITECT'S DRAWINGS AND LOCAL CODE.

9. REFER TO ARCHITECT'S DRAWINGS FOR ELECTRICAL REQUIREMENTS IN ALL AREAS NOT INDICATED ON THIS PLAN.

ALL DIMENSIONS NOTED ON PLAN ARE TO THE CENTERLINE OF RECEPTACLE OR UTILITY CENTER (UNLESS SHOWN OTHERWISE)

GENERAL NOTES

1. THIS SPECIFICATION SHEET IS INTENDED AS A GUIDE FOR TRADESMEN. THE FLOOR PLANS ENCLOSED HEREIN ARE SUGGESTIONS FOR THE PLACEMENT OF DENTAL EQUIPMENT. THEY ARE NOT INTENDED FOR CONSTRUCTION.

2. VERIFY ALL DIMENSIONS WITH HENRY SCHEIN DENTAL REP. ON JOBSITE. ON SITE MODIFICATIONS MAY NEED TO BE DONE BY CONTRACTOR, BUT SHOULD BE VERIFIED BY ALL PARTIES INVOLVED.

3. USE 5/8" GYPSUM WALLBOARD THROUGHOUT THE OFFICE TO PROVIDE EXTRA PROTECTION AGAINST X-RAY SCATTER RADIATION.

VACUUM NOTES

THE VACUUM PIPING LAYOUT HAS A LARGE EFFECT ON THE EFFICIENCY AND RELIABILITY OF THE DENTAL VACUUM SYSTEM. REFER TO MANUFACTURER'S PRE-INSTALLATION GUIDE PROVIDED BY HENRY SCHEIN EQUIPMENT SPECIALIST (FOR SPECIFIC SIZING OF STUB-UP, TRUNK, AND BRANCH LINES.

IT IS HIGHLY RECOMMENDED THAT VACUUM LINES RUN UNDERNEATH DENTAL EQUIPMENT BY MEANS OF TRENCHING/CORING (CONCRETE SLAB) OR SUB-FLOOR (BASEMENT/CRAWL SPACE). ALL LINES ARE TO BE DESIGNED WITH PVC PIPING UNLESS DICTATED BY LOCAL CODES TO USE COPPER OR CAST IRON.

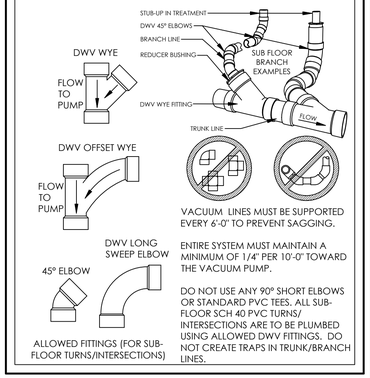
1. STUB-UP
TERMINATE VACUUM TRUNK LINE IN MECHANICAL ROOM. PLUMBER TO PROVIDE FPT ADAPTOR ON END OF STUB-OUT FROM FLOOR OR WALL, SIZE PER MANUFACTURER SPECIFICATIONS. SEE DETAILS (THIS SET) & MANUFACTURER TEMPLATES PROVIDED BY HENRY SCHEIN EQUIPMENT REP. IN THE CASE OF DUAL TRUNK LINE SYSTEM, PROVIDE ENOUGH SPACE BETWEEN STUB-UPS TO INSTALL BYPASS OR TANDEM COMPONENTS.

2. TRUNK LINE(S)
DO NOT PIPE TRUNK LINE IN A SERIES MANNER FROM J-BOX TO J-BOX. A CONTINUOUS TRUNK LINE MUST BE MAINTAINED FROM THE PUMP TO THE FURTHEST J-BOX USING BRANCH LINES OFF OF THE TRUNK LINE TO PICK UP EACH VACUUM OUTLET. TRUNK LINE MAY FOLLOW DRAIN LINE TRENCHES WITHIN REASON.

3. BRANCH LINE(S)
BRANCH LINES ARE TO HAVE "SWEEPING" 90 DEGREE TURNS TO AVOID VACUUM LOSS. "WYE" FITTINGS SHOULD BE USED TO JOIN BRANCH LINES TO THE TRUNK LINE.

4. PLUMBING AROUND FOOTINGS:
IF VACUUM LINES ENCROACH ON EITHER A WALL OR COLUMN FOOTING, USE 45 DEGREE ELBOWS TO PIPE AROUND FOOTING TO FINAL LOCATION. DO NOT PIPE UNDER FOOTINGS.

VACUUM LINE GUIDELINES



VACUUM LINES MUST BE SUPPORTED EVERY 6'-0" TO PREVENT SAGGING.

ENTIRE SYSTEM MUST MAINTAIN A MINIMUM OF 1/4" PER 10'-0" TOWARD THE VACUUM PUMP.

DO NOT USE ANY 90° SHORT ELBOWS OR STANDARD PVC TEES. ALL SUB-FLOOR SCH 40 PVC TURNS/ INTERSECTIONS ARE TO BE PLUMBED USING ALLOWED DWV FITTINGS. DO NOT CREATE TRAPS IN TRUNK/BRANCH LINES.

PLUMBING NOTES

1. THIS SPECIFICATION SHEET IS INTENDED AS A GUIDE FOR TRADESMEN. THE FLOOR PLANS ENCLOSED HEREIN ARE SUGGESTIONS FOR THE PLACEMENT OF DENTAL EQUIPMENT. THEY ARE NOT INTENDED FOR CONSTRUCTION.

2. EXACT EQUIPMENT LOCATIONS MUST BE JOB SITE VERIFIED BY THE HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.

3. FOLLOW MANUFACTURER'S TEMPLATES FOR EXACT REQUIREMENTS FOR ANY EQUIPMENT SUPPLIED BY HENRY SCHEIN DENTAL. CONSULT WITH HENRY SCHEIN DENTAL REP FOR ADDITIONAL INFORMATION.

4. DENTAL AIR IS SUPPLIED THROUGH USE OF A DENTAL AIR COMPRESSOR/SUPPLY SYSTEM AND IS PERMITTED TO BE USED AS A SUPPORT GAS FOR DRIVING DENTAL TOOLS AND SUPPLYING AIR-DRIVEN EQUIPMENT AS DESCRIBED WITHIN NFPA 99. DENTAL AIR IS NOT A MEDICAL GAS.

5. WATER PRESSURE MUST NOT EXCEED 50 PSI AT ALL DENTAL UNITS.

6. ALL PLUMBING MUST CONFORM TO LOCAL PREVAILING CODES.

7. REFER TO ARCHITECT'S DRAWINGS FOR PLUMBING REQUIREMENTS IN ALL AREAS NOT INDICATED ON THIS PLAN.

ALL DIMENSIONS NOTED ON PLAN ARE TO THE CENTERLINE OF PLUMBING OR UTILITY CENTER (UNLESS SHOWN OTHERWISE)

HENRY SCHEIN®
INTEGRATED DESIGN STUDIO
10920 W LINCOLN AVE. WEST ALLIS, WI 53227
henryscheinintegrateddesign.com

PROJECT: **TWIN FALLS COUNTY JAIL**
LOCATION: TWIN FALLS, ID

HENRY SCHEIN REP:
JAKE JONES

REGION:
MW MOUNTAIN WEST

PHONE #:
(208) 869-7974

PROJECT NUMBER:
24-1481

PROJECT START DATE:
7/31/2024

FINALS START DATE:
7/31/2024

DRAWN BY: ARCH.
FINALS BY: CAK
CHECKED BY: RLC

REVISIONS:

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INT.SQ.FT.= PER ARCH.

SCALE: 1/4"=1'-0" | SHT. SIZE: 24 x 36

DENTAL DRAWINGS

SA.0

P:_ALL REGIONS\MW Mountain West\Twin Falls County Jail\Twin Falls County Jail-1.F

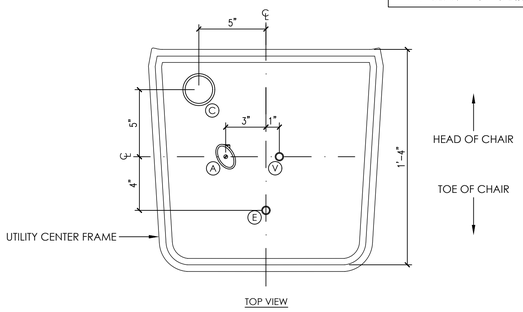
Ⓐ COMPRESSED AIR: 1/2" SUPPLY LINE FROM COMPRESSOR BY PLUMBER. STUB-UP FROM FLOOR 1"-2". TERMINATE WITH 3/8" ANGLE VALVE. PRESSURE 80-100 PSI MAX.

Ⓥ CENTRAL VACUUM: 5/8" RISER BY PLUMBER (SCH. 40 PVC OR TYPE M COPPER). TERMINATE 1"-2" A.F.F.

Ⓔ ELECTRICAL: TWO GANG BOX & 115V QUAD OUTLET BY ELECTRICIAN. CHAIR MAX DRAW: 8.5A

Ⓒ CONDUIT: PVC CONDUIT WITH PULL-STRING BY ELECTRICIAN. 6" MIN. RADIUS FOR ALL BENDS. STUB-UP FLUSH WITH SUB-FLOOR. MARK LOCATION AT FINISH. **QUANTITY OF CONDUIT TERMINATIONS WILL VARY. SEE SHEET SE.1 FOR SIZES & LOCATIONS.**

NOTES:
1. DETAIL PROVIDED FOR UTILITY REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION. HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST WILL PROVIDE INSTALLATION TEMPLATE UPON REQUEST.
2. INSTALLATION MUST CONFORM TO ALL LOCAL ELECTRICAL AND PLUMBING CODES.
3. ALL UTILITIES HEREIN TO BE SUPPLIED & INSTALLED BY LICENSED CONTRACTORS. FINAL CONNECTIONS TO EQUIPMENT BY HENRY SCHEIN DENTAL.
4. ALL UTILITIES MUST BE NO HIGHER THAN 4¼" A.F.F. AT FINISH.
5. ALL PLUMBED SYSTEMS MUST BE FLUSHED CLEAN OF ANY DEBRIS PRIOR TO EQUIPMENT INSTALLATION.



3A DCI EDGE SERIES 5 CHAIR UTILITIES
NOT TO SCALE

Ⓐ COMPRESSED AIR: 1/2" SUPPLY LINE FROM COMPRESSOR BY PLUMBER. STUB-OUT FROM WALL 1"-2". TERMINATE WITH 3/8" ANGLE VALVE. PRESSURE 100 PSI MAX.

Ⓥ CENTRAL VACUUM: 5/8" RISER BY PLUMBER (SCH 40 PVC OR TYPE M COPPER). TERMINATE 1-2" A.F.F.

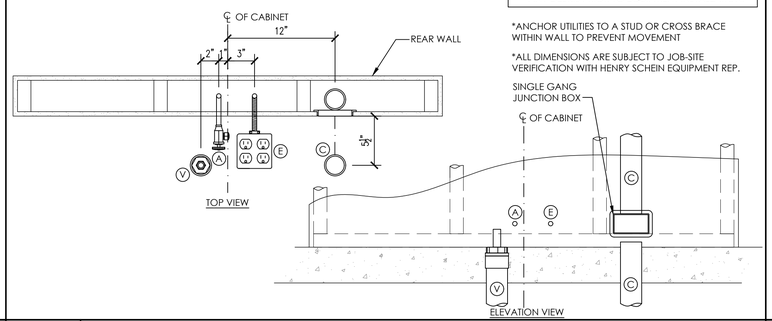
Ⓔ ELECTRICAL: 16" FLEX CONDUIT WITH TWO GANG BOX & 115V QUAD OUTLET BY ELECTRICIAN.

Ⓒ CONDUIT: PVC CONDUIT WITH PULL-STRING BY ELECTRICIAN. 6" MIN. RADIUS FOR ALL BENDS. STUB-UP FLUSH WITH SUB-FLOOR. MARK LOCATION AT FINISH. **QUANTITY OF CONDUIT TERMINATIONS WILL VARY. SEE SHEET SE.1 FOR SIZES & LOCATIONS.**

NOTES:
1. DETAIL PROVIDED FOR UTILITY REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION. HENRY SCHEIN DENTAL REP WILL PROVIDE INSTALLATION TEMPLATE UPON REQUEST.
2. INSTALLATION MUST CONFORM TO ALL LOCAL ELECTRICAL AND PLUMBING CODES.
3. ALL UTILITIES HEREIN TO BE SUPPLIED & INSTALLED BY LICENSED CONTRACTORS. FINAL CONNECTIONS TO EQUIPMENT BY HENRY SCHEIN DENTAL.
4. ALL VALVES, BOXES AND PIPES FROM FLOOR MUST BE NO HIGHER THAN 5" A.F.F.
5. ALL PLUMBED SYSTEMS MUST BE FLUSHED CLEAN OF ANY DEBRIS PRIOR TO EQUIPMENT INSTALLATION.

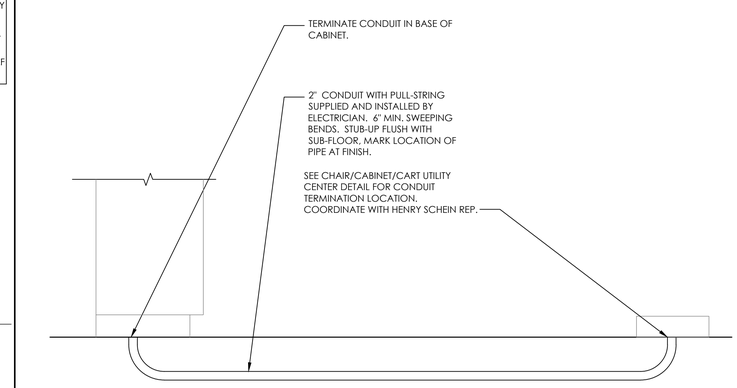
*ANCHOR UTILITIES TO A STUD OR CROSS BRACE WITHIN WALL TO PREVENT MOVEMENT

*ALL DIMENSIONS ARE SUBJECT TO JOB-SITE VERIFICATION WITH HENRY SCHEIN EQUIPMENT REP.



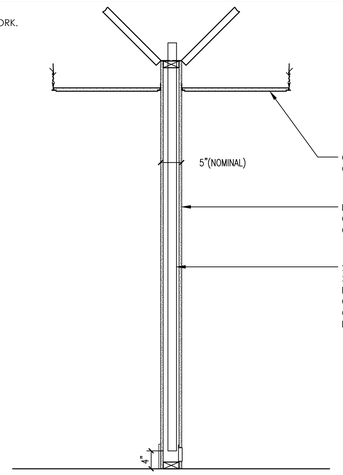
3A CUSTOM REAR WALL UTILITIES
NOT TO SCALE

FOLLOW LOCAL CODES FOR ALL WORK.



4A SUB-FLOOR CONDUIT
NOT TO SCALE

FOLLOW LOCAL CODES FOR ALL WORK.



4B VERTICAL CONDUIT
NOT TO SCALE

EXTERIOR PIPING MUST BE PROTECTED FROM OUTDOOR ELEMENTS WITH AN INVERTED TRAP/SHROUD/SCREEN. INTAKE TO HAVE 10' HORIZONTAL, 3' VERTICAL CLEARANCE FROM ANY EXHAUST LINES, AND MUST BE BELOW, NOT ABOVE EXHAUST.

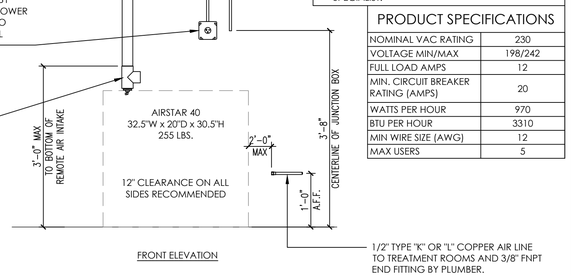
RIGID CONDUIT TO 6" ABOVE CEILING (OR PER CODE) & 18/4 LOW VOLTAGE WIRE TO REMOTE SHUT-OFF BY ELECTRICIAN.

2" REMOTE AIR INTAKE BY PLUMBER. RUN TO EXTERIOR OR CONDITIONED AIR SOURCE AS NEEDED BASED ON ENVIRONMENTAL CONDITIONS AND LOCALLY ACCEPTED CODES.

2-GANG BOX & DEDICATED CIRCUIT(S) BY ELECTRICIAN. SEE CHART FOR SIZING. POWER IS HARDWIRED TO PUMP. ELECTRICIAN TO SUPPLY DISCONNECT BOX IF ELECTRICAL PANEL IS NOT IN MECHANICAL ROOM.

PLUMBER TO INSTALL TEE AND DRIP LEG ASSEMBLY AT BOTTOM OF REMOTE AIR INTAKE WITH DRAIN TUBE TO FLOOR DRAIN/SINK WITHIN MECHANICAL ROOM. CONFIRM SIZE OF TEE WITH MFGR. SPECS.

THIS COMPRESSOR IS DESIGNED AS A SUPPORT GAS SYSTEM TO DRIVE DENTAL TOOLS AND SUPPLY AIR-DRIVEN EQUIPMENT AS DESCRIBED WITHIN NFPA 99. DENTAL AIR IS NOT A MEDICAL GAS.



1/2" TYPE "K" OR "L" COPPER AIR LINE TO TREATMENT ROOMS AND 3/8" FNPT END FITTING BY PLUMBER.

NOTES:
1. DETAIL PROVIDED FOR UTILITY REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.
2. INSTALLATION MUST CONFORM TO LOCAL CODES.
3. FINAL CONNECTIONS TO BE MADE BY LICENSED CONTRACTORS.
4. MECHANICAL ROOM MUST BE KEPT BETWEEN 41°-105° F. A THERMOSTAT CONTROLLED EXHAUST FAN IS RECOMMENDED. SPECIFICATIONS PER MECHANICAL ENGINEER.
5. A BUCK-BOOST TRANSFORMER WILL BE REQUIRED IF VOLTAGE DOES NOT FALL WITHIN THE RECOMMENDED RANGE OF ± 10% OF THE RATING LISTED. VERIFY SUPPLIER OF BUCK-BOOST TRANSFORMER WITH HENRY SCHEIN EQUIPMENT SPECIALIST.

PRODUCT SPECIFICATIONS	
NOMINAL VAC RATING	230
VOLTAGE MIN/MAX	198/242
FULL LOAD AMPS	12
MIN. CIRCUIT BREAKER RATING (AMPS)	20
WATTS PER HOUR	970
BTU PER HOUR	3310
MIN WIRE SIZE (AWG)	12
MAX USERS	5

25 AIRTECHNIQUES AIRSTAR 40 COMPRESSOR
NOT TO SCALE

EXTERIOR PIPING MUST BE PROTECTED FROM OUTDOOR ELEMENTS WITH AN INVERTED TRAP/SHROUD/SCREEN. EXHAUST TO HAVE 10' HORIZONTAL, 3' VERTICAL CLEARANCE FROM ANY FRESH AIR INTAKE(S) AND MUST BE ABOVE, NOT BELOW INTAKE(S).

RIGID CONDUIT TO 6" ABOVE CEILING (OR PER CODE) & 18/4 LOW VOLTAGE WIRE TO REMOTE SHUT-OFF BY ELECTRICIAN.

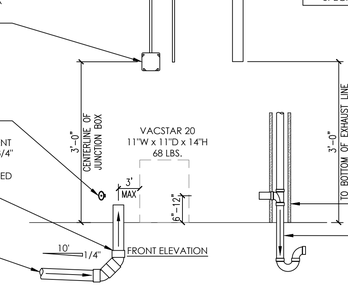
2" SCH. 40 PVC EXHAUST VENT BY PLUMBER. RUN TO EXTERIOR.

2-GANG BOX & DEDICATED CIRCUIT(S) BY ELECTRICIAN. SEE CHART FOR SIZING. POWER IS HARDWIRED TO PUMP. ELECTRICIAN TO SUPPLY DISCONNECT BOX IF ELECTRICAL PANEL IS NOT IN MECHANICAL ROOM.

1/2" WATER SUPPLY LINE WITH 1/2" FNPT SHUT-OFF VALVE BY PLUMBER.

1"-1½" MAIN VACUUM LINE FROM TREATMENT ROOMS BY PLUMBER. TERMINATE WITH A 3/4" FNPT FITTING OR CONNECT DIRECTLY TO AMALGAM SEPARATOR (29A) WHEN CALLED FOR. SEE SHEET SP.1.

MINIMUM SLOPE ON VACUUM LINE OF 1/4" PER 10' TOWARDS THE MECHANICAL ROOM



DRAIN STUB-OUT IN REAR OR SIDE WALL BASED ON SITE CONDITIONS.

1½" CLOSED VENTED DRAIN LINE FROM WALL OR FLOOR BY PLUMBER. NO TRAP BEFORE VENT.
OR DRAIN LINE WITH P-TRAP AND AIR GAP.
OR FLOOR SINK. FOLLOW LOCAL CODES.

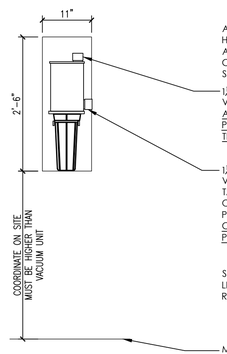
NOTES:
1. DETAIL PROVIDED FOR UTILITY REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.
2. INSTALLATION MUST CONFORM TO LOCAL CODES.
3. FINAL CONNECTIONS TO BE MADE BY LICENSED CONTRACTORS.
4. MECHANICAL ROOM MUST BE KEPT BETWEEN 40°-104° F. A THERMOSTAT CONTROLLED EXHAUST FAN IS RECOMMENDED. SPECIFICATIONS PER MECHANICAL ENGINEER.
5. A BUCK-BOOST TRANSFORMER WILL BE REQUIRED IF VOLTAGE DOES NOT FALL WITHIN THE RECOMMENDED RANGE OF ± 10% OF THE RATING LISTED. VERIFY SUPPLIER OF BUCK-BOOST TRANSFORMER WITH HENRY SCHEIN EQUIPMENT SPECIALIST.

PRODUCT SPECIFICATIONS	
# OF MOTORS	1
NOMINAL VAC RATING	230
VOLTAGE MIN/MAX	198/242
FULL LOAD AMPS	8
MIN. CIRCUIT BREAKER RATING (AMPS)	20
WATTS PER HOUR	750
BTU PER HOUR	2560
MIN WIRE SIZE (AWG)	12
MAX USERS	2

26 AIRTECHNIQUES VACSTAR 20 VACUUM
NOT TO SCALE

FOLLOW LOCAL CODES FOR ALL WORK.

DETAIL PROVIDED FOR UTILITY REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.



AMALGAM SEPARATOR SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLATION AND FINAL CONNECTIONS BY PLUMBER. COORDINATE LOCATION WITH HENRY SCHEIN TECHNICIAN.

1½" INLET FOR CONNECTION TO MAIN VACUUM LINE. USE PROVIDED INLET AND OUTLET COUPLINGS WITH FLEX PIPING. DO NOT GLUE PLUMBING TO THE NXT HG5 INLET OR OUTLET.

1½" OUTLET FOR CONNECTION TO WET RING VACUUM INLET OR DRY VACUUM COLLECTION TANK. MOUNT SEPARATOR SO THAT THIS OUTLET IS HIGHER THAN THE VACUUM TANK OR PUMP INLET. USE PROVIDED INLET AND OUTLET COUPLINGS WITH FLEX PIPING. DO NOT GLUE PLUMBING TO THE NXT HG5 INLET OR OUTLET.

SEE VACUUM PUMP DETAIL FOR VACUUM LINE TERMINATION FROM TREATMENT ROOMS.

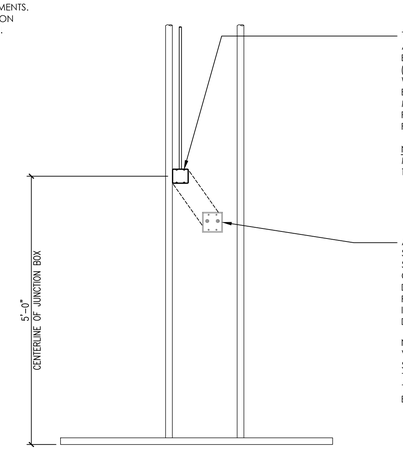
MECHANICAL ROOM FLOOR

FRONT ELEVATION

29A SOLMETEX NXT Hg5 AMALGAM SEPARATOR
NOT TO SCALE

FOLLOW LOCAL CODES FOR ALL WORK.

DETAIL PROVIDED FOR UTILITY REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.



TWO GANG BOX & CONDUIT TO ABOVE CEILING (OR PER CODE) BY ELECTRICIAN.
(2) SETS OF 18/4 LOW VOLTAGE WIRE TO MECHANICAL CLOSET BY ELECTRICIAN FOR (1) VACUUM MOTOR & (1) COMPRESSOR. PROVIDE SLACK WITHIN BOX FOR FINAL CONNECTIONS.

NOTE: WHEN DISTANCE TO MECHANICAL CLOSET EXCEEDS 150', USE 16/4 LOW VOLTAGE WIRE.

AIR AND VACUUM REMOTE SHUT-OFF KIT SUPPLIED BY HENRY SCHEIN DENTAL. FINAL CONNECTIONS BY HENRY SCHEIN DENTAL (OR PER LOCAL CODE). REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR WIRING DIAGRAM.

NOTE: WHEN USING WET-RING VACUUM PUMPS, THE VACUUM SWITCH MUST BE LOCKED OUT BY THE WATER SWITCH TO INSURE THAT WATER IS AVAILABLE BEFORE THE VACUUM STARTS.

32 MECHANICAL REMOTE SHUT-OFF (2 SWITCH)
NOT TO SCALE

HENRY SCHEIN®
INTEGRATED DESIGN STUDIO
10920 W LINCOLN AVE. WEST ALLIS, WI 53227
henryscheinintegrateddesign.com

PROJECT: **TWIN FALLS COUNTY JAIL**
LOCATION: TWIN FALLS, ID

HENRY SCHEIN REP: JAKE JONES
REGION: MW MOUNTAIN WEST
PHONE #: (208) 869-7974

PROJECT NUMBER: 24-1481
PROJECT START DATE: 7/31/2024
FINALS START DATE: 7/31/2024
DRAWN BY: ARCH.
FINALS BY: CAK
CHECKED BY: RLC

REVISIONS:

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INT.SQ.FT.= PER ARCH.

SCALE: SEE DETAIL
SHT. SIZE: 24 x 36

DENTAL EQUIP. DETAILS

SED.1

P:_ALL REGIONS\MW Mountain West\Twin Falls County Jail\Twin Falls County Jail-1.0